

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090723\
 Data File : VN079186.D
 Acq On : 07 Sep 2023 20:07
 Operator : JC\MD
 Sample : 04303-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 08 05:46:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 08 05:09:17 2023
 Response via : Initial Calibration

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

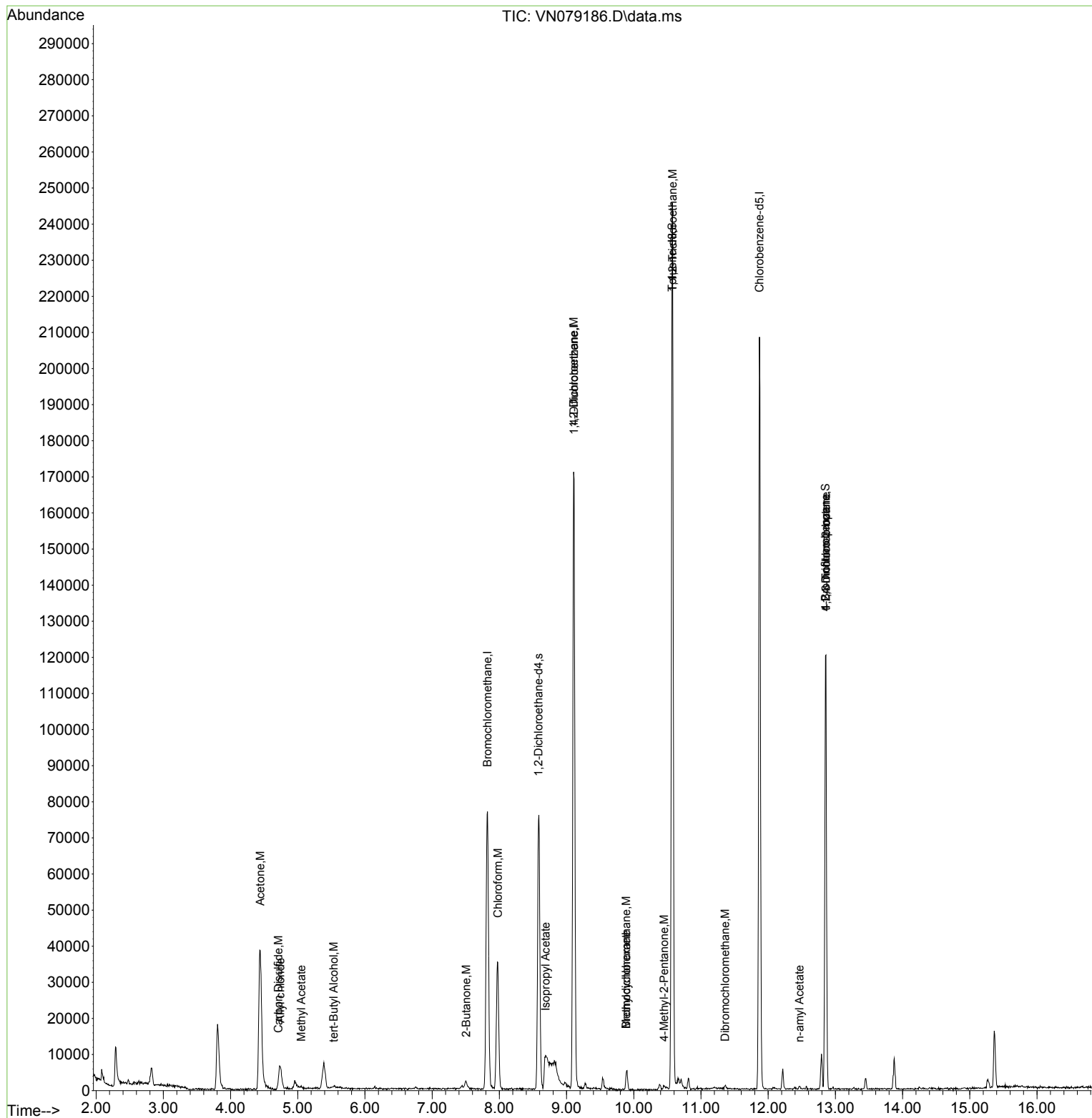
Internal Standards						
1) Bromochloromethane	7.824	128	29125	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	153730	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	128108	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	65125	29.762	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.200%		
60) 4-Bromofluorobenzene	12.853	95	45768	24.247	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	80.833%		
63) Toluene-d8	10.571	98	177896	29.714	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.033%		
Target Compounds						
					Qvalue	
12) Methyl Acetate	5.053	43	1079	0.452	ug/l #	50
15) Acetone	4.442	58	26857	146.993	ug/l	93
16) Carbon Disulfide	4.712	76	678	0.224	ug/l #	76
17) Allyl chloride	4.742	41	968	0.588	ug/l	88
23) tert-Butyl Alcohol	5.536	59	350	1.299	ug/l #	100
25) Chloroform	7.977	83	36114	10.403	ug/l	99
30) 2-Butanone	7.506	43	4028	3.249	ug/l #	75
36) 1,2-Dichloroethane	9.106	62	4796	1.857	ug/l #	73
38) Methylcyclohexane	9.888	83	4384	1.779	ug/l #	17
41) Bromodichloromethane	9.888	83	4384	1.651	ug/l #	85
44) Isopropyl Acetate	8.688	43	5529	1.305	ug/l #	84
47) n-amyl Acetate	12.465	43	732	0.246	ug/l #	49
50) 1,1,2-Trichloroethane	10.576	97	5580	2.986	ug/l #	1
53) Dibromochloromethane	11.359	129	812	0.414	ug/l	99
58) 4-Methyl-2-Pentanone	10.453	43	1089	0.463	ug/l #	80
72) 1,2,3-Trichloropropane	12.859	75	22714	10.417	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.859	75	22714	29.588	ug/l #	14

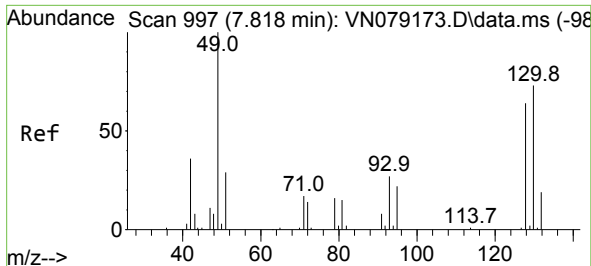
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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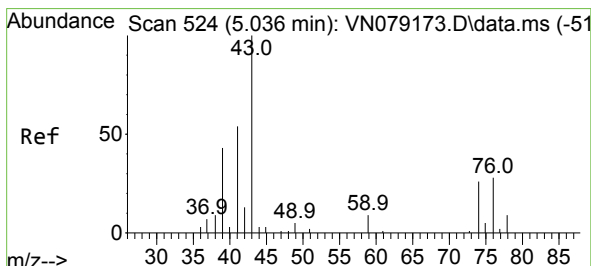
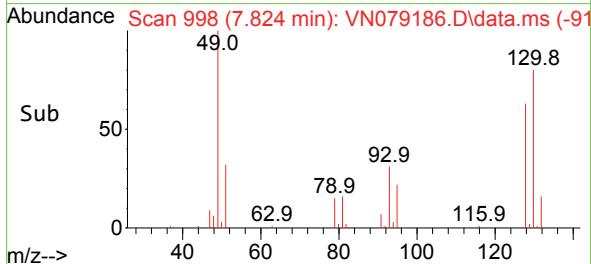
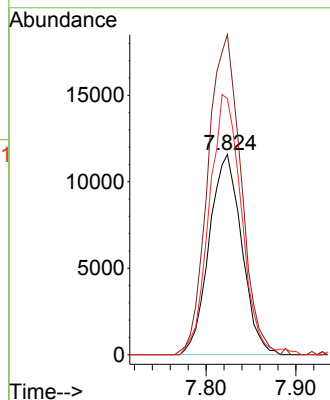
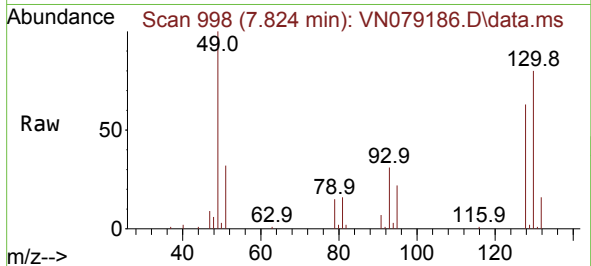




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 997
Delta R.T. 0.006 min
Lab File: VN079186.D
Acq: 07 Sep 2023 20:07

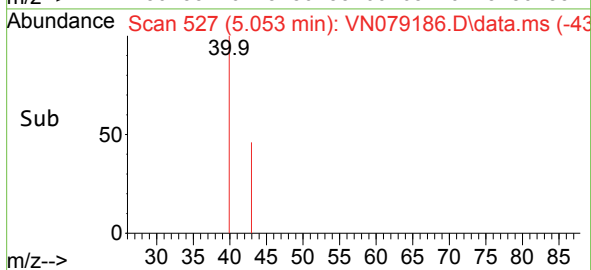
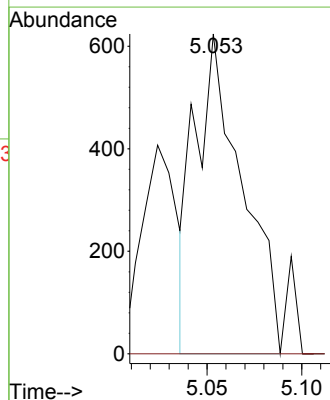
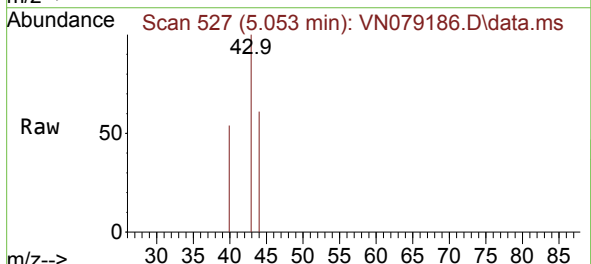
Instrument :
MSVOA_N
ClientSampleId :

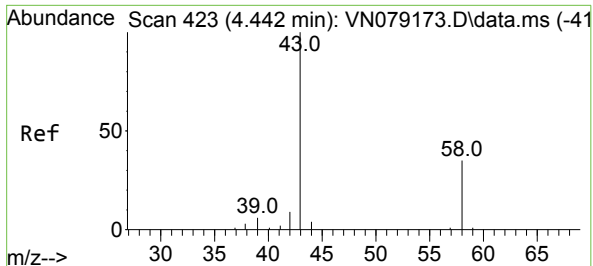
Tgt Ion	Ratio	Lower	Upper
128	100		
49	162.2	0.0	414.3
130	127.8	0.0	311.0



#12
Methyl Acetate
Concen: 0.452 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.017 min
Lab File: VN079186.D
Acq: 07 Sep 2023 20:07

Tgt Ion	Ratio	Lower	Upper
43	100		
74	0.0	20.4	30.6





#15

Acetone

Concen: 146.993 ug/l

RT: 4.442 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN079186.D

Acq: 07 Sep 2023 20:07

Instrument :

MSVOA_N

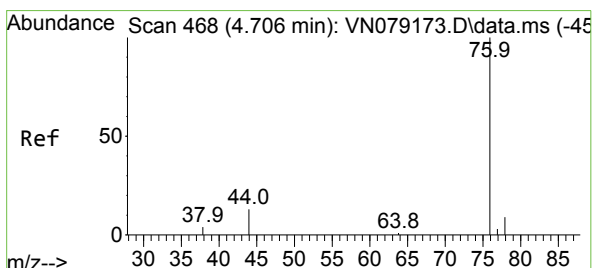
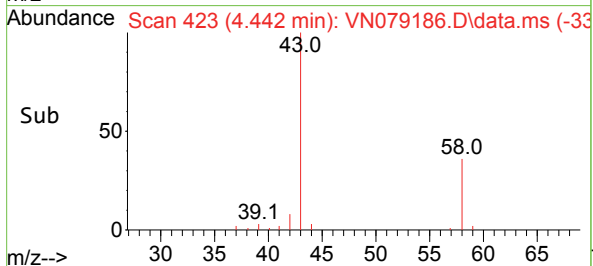
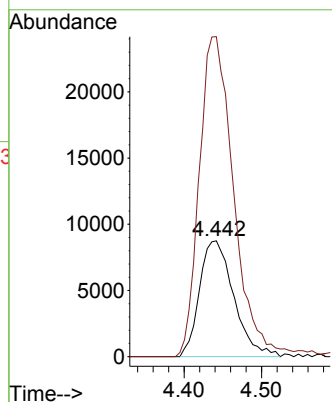
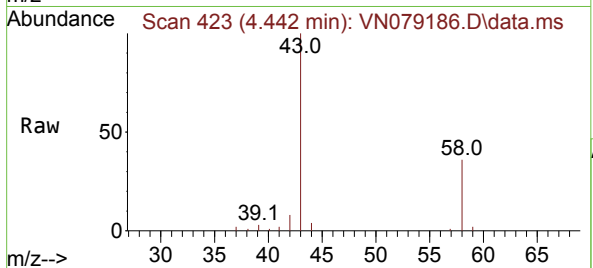
ClientSampleId :

Tgt Ion: 58 Resp: 26857

Ion Ratio Lower Upper

58 100

43 272.8 228.3 342.5



#16

Carbon Disulfide

Concen: 0.224 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.006 min

Lab File: VN079186.D

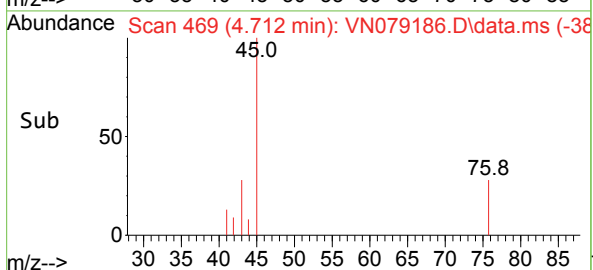
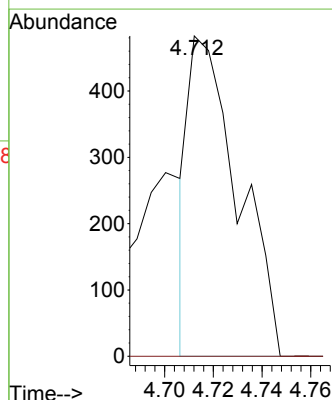
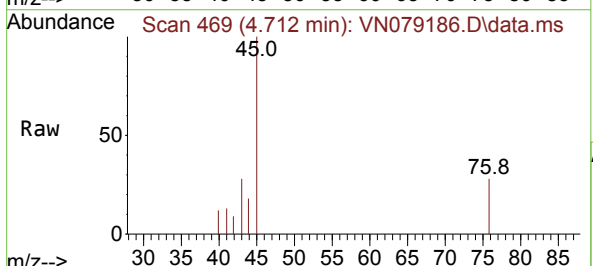
Acq: 07 Sep 2023 20:07

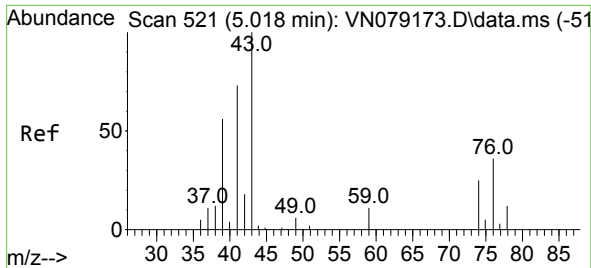
Tgt Ion: 76 Resp: 678

Ion Ratio Lower Upper

76 100

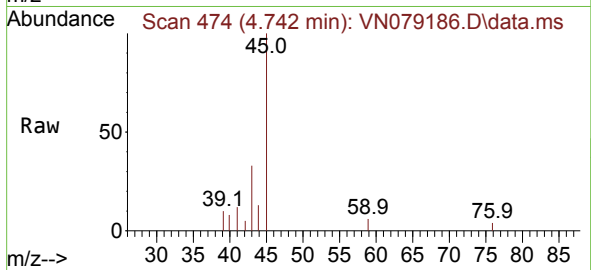
78 0.0 6.9 10.3#



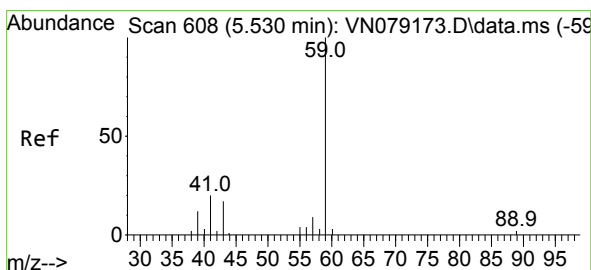
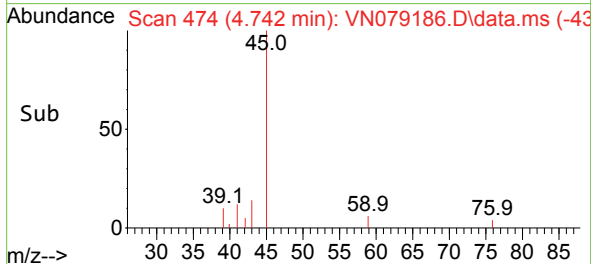
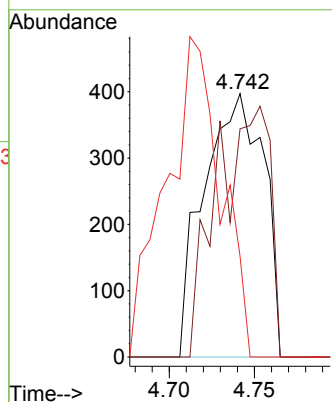


#17
 Allyl chloride
 Concen: 0.588 ug/l
 RT: 4.742 min Scan# 41
 Delta R.T. -0.276 min
 Lab File: VN079186.D
 Acq: 07 Sep 2023 20:07

Instrument :
 MSVOA_N
 ClientSampleId :

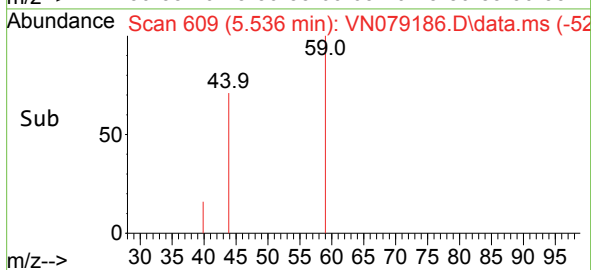
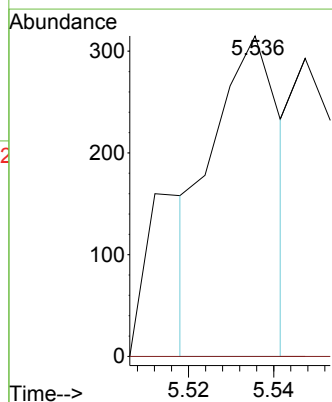
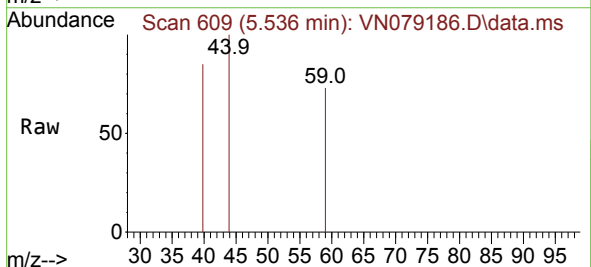


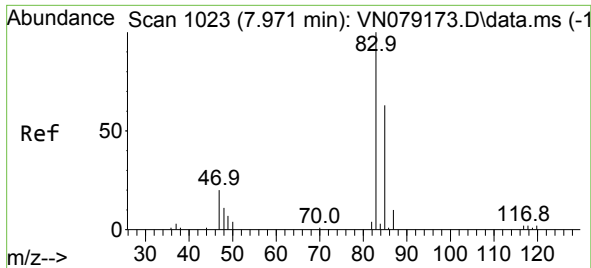
Tgt Ion:	41	Resp:	968
Ion	Ratio	Lower	Upper
41	100		
39	86.6	38.3	114.8
76	38.3	23.7	71.1



#23
 tert-Butyl Alcohol
 Concen: 1.299 ug/l
 RT: 5.536 min Scan# 609
 Delta R.T. 0.006 min
 Lab File: VN079186.D
 Acq: 07 Sep 2023 20:07

Tgt Ion:	59	Resp:	350
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0





#25

Chloroform

Concen: 10.403 ug/l

RT: 7.977 min Scan# 1023

Delta R.T. 0.006 min

Lab File: VN079186.D

Acq: 07 Sep 2023 20:07

Instrument :

MSVOA_N

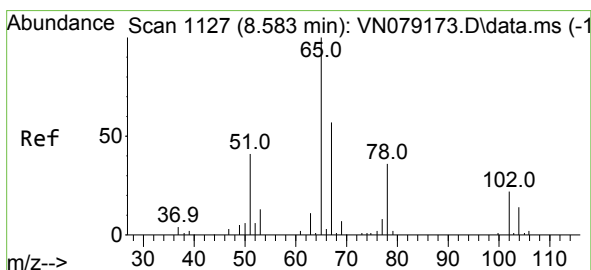
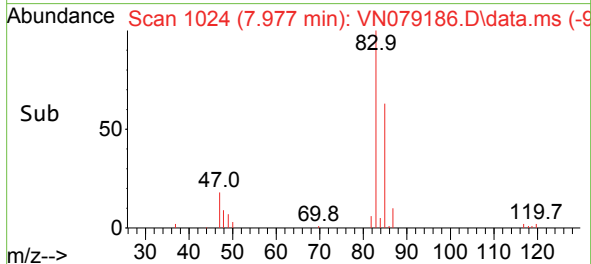
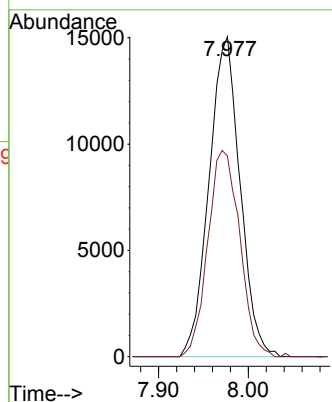
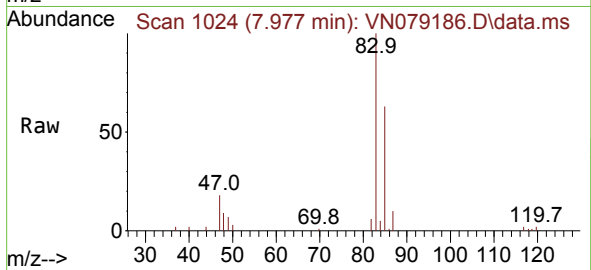
ClientSampleId :

Tgt Ion: 83 Resp: 36114

Ion Ratio Lower Upper

83 100

85 62.7 50.6 76.0



#27

1,2-Dichloroethane-d4

Concen: 29.762 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.001 min

Lab File: VN079186.D

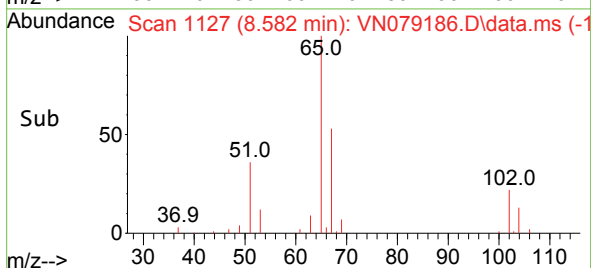
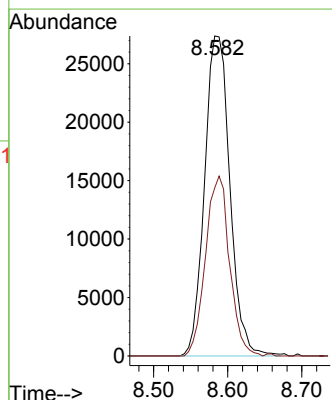
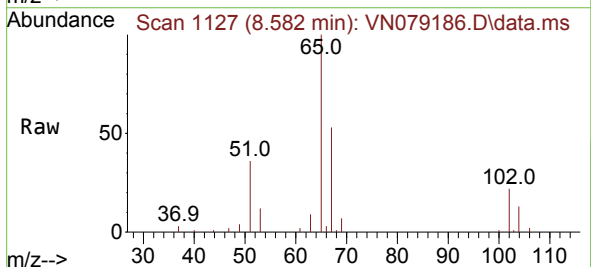
Acq: 07 Sep 2023 20:07

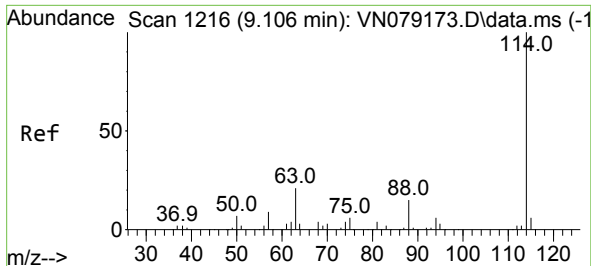
Tgt Ion: 65 Resp: 65125

Ion Ratio Lower Upper

65 100

67 53.3 44.4 66.6





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.112 min Scan# 114

Delta R.T. 0.006 min

Lab File: VN079186.D

Acq: 07 Sep 2023 20:07

Instrument :

MSVOA_N

ClientSampleId :

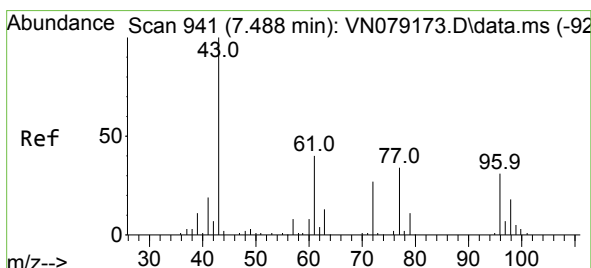
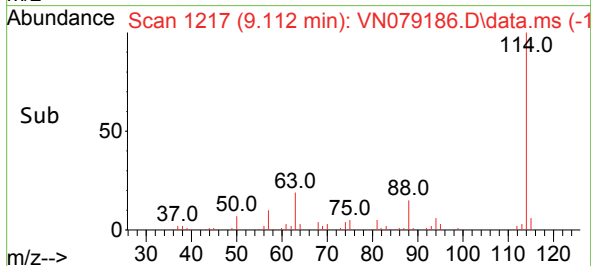
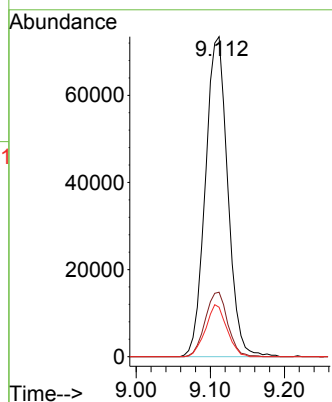
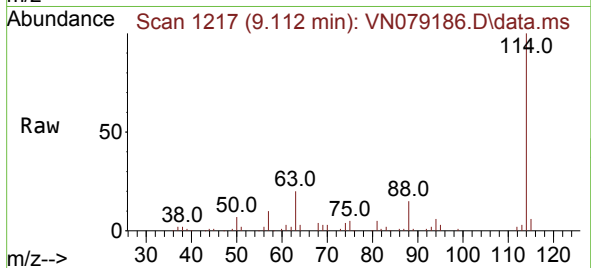
Tgt Ion:114 Resp: 153730

Ion Ratio Lower Upper

114 100

63 20.3 17.0 25.4

88 15.5 12.8 19.2



#30

2-Butanone

Concen: 3.249 ug/l

RT: 7.506 min Scan# 944

Delta R.T. 0.018 min

Lab File: VN079186.D

Acq: 07 Sep 2023 20:07

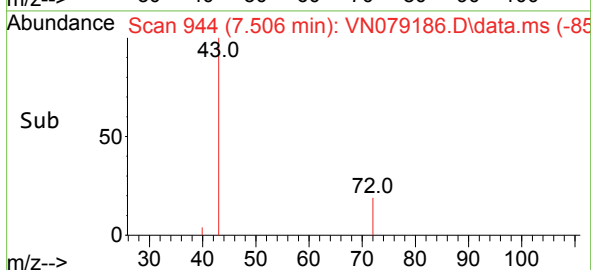
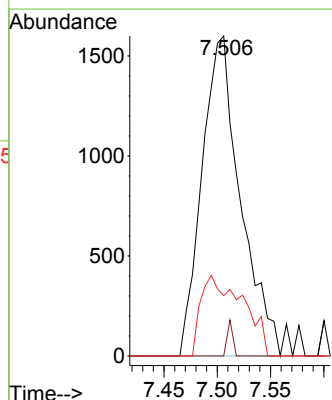
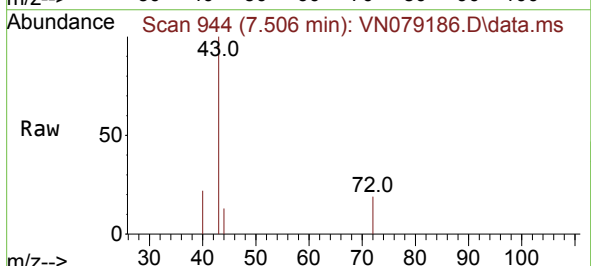
Tgt Ion: 43 Resp: 4028

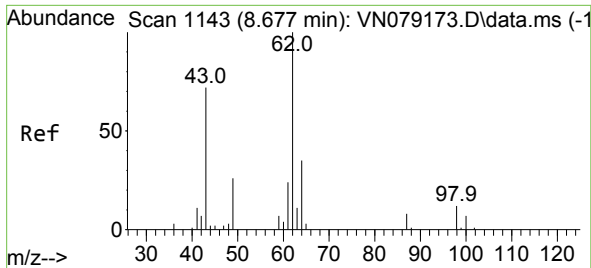
Ion Ratio Lower Upper

43 100

57 0.0 6.8 10.2#

72 14.3 22.4 33.6#





#36

1,2-Dichloroethane

Concen: 1.857 ug/l

RT: 9.106 min Scan# 1143

Delta R.T. 0.429 min

Lab File: VN079186.D

Acq: 07 Sep 2023 20:07

Instrument :

MSVOA_N

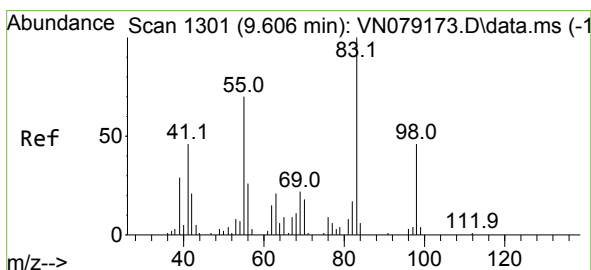
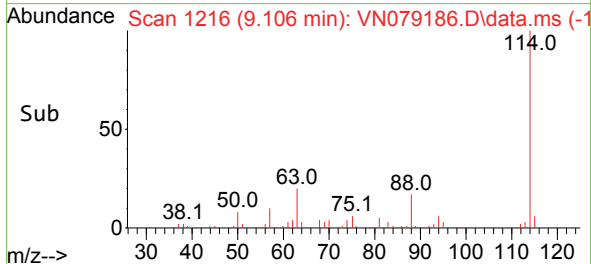
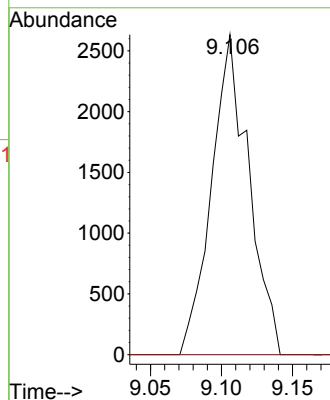
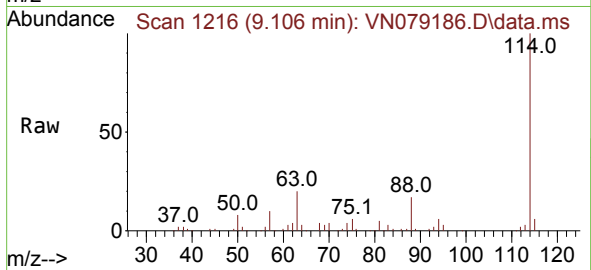
ClientSampleId :

Tgt Ion: 62 Resp: 4796

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.2#



#38

Methylcyclohexane

Concen: 1.779 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.282 min

Lab File: VN079186.D

Acq: 07 Sep 2023 20:07

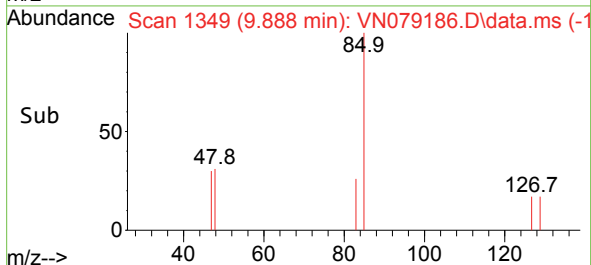
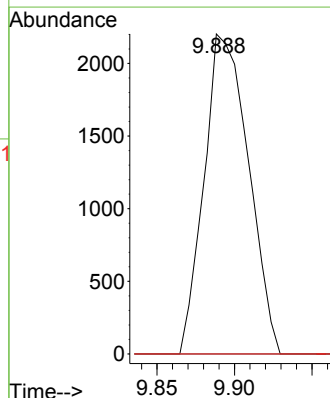
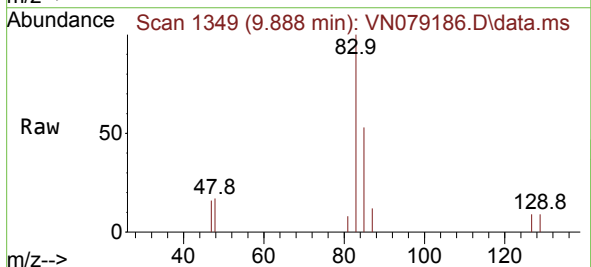
Tgt Ion: 83 Resp: 4384

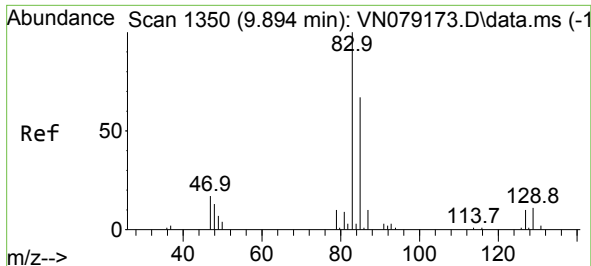
Ion Ratio Lower Upper

83 100

55 0.0 39.1 117.2#

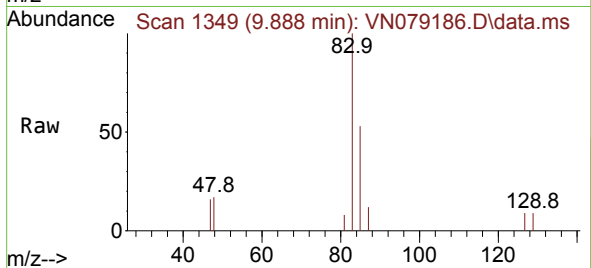
98 0.0 24.1 72.4#



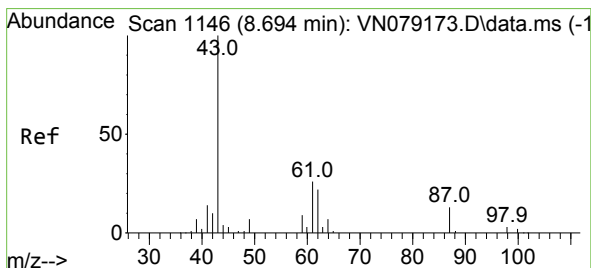
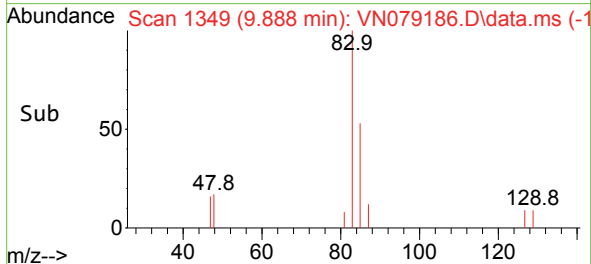
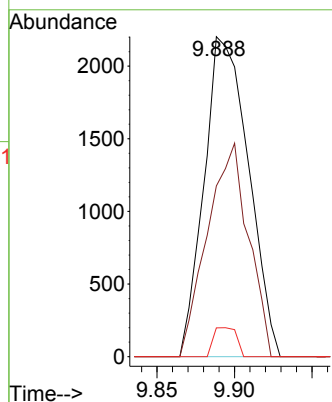


#41
Bromodichloromethane
Concen: 1.651 ug/l
RT: 9.888 min Scan# 1134
Delta R.T. -0.006 min
Lab File: VN079186.D
Acq: 07 Sep 2023 20:07

Instrument :
MSVOA_N
ClientSampleId :

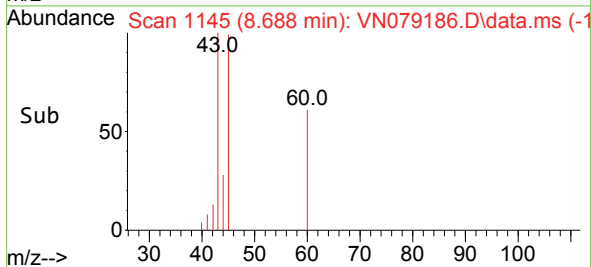
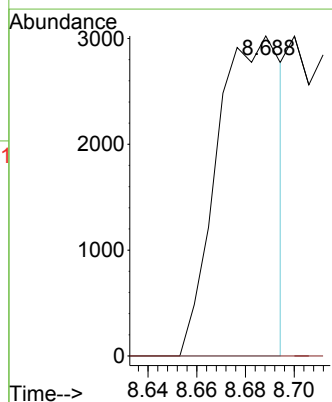
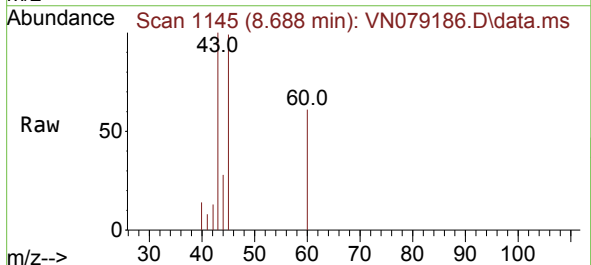


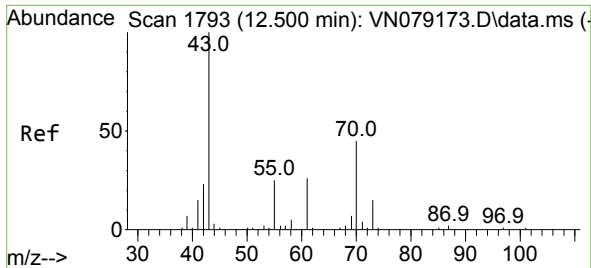
Tgt Ion: 83 Resp: 4384
Ion Ratio Lower Upper
83 100
85 53.3 53.4 80.2#
127 9.0 8.3 12.5



#44
Isopropyl Acetate
Concen: 1.305 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.006 min
Lab File: VN079186.D
Acq: 07 Sep 2023 20:07

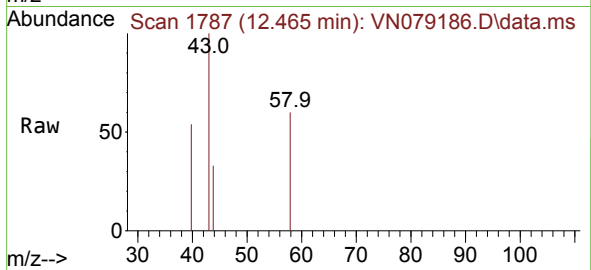
Tgt Ion: 43 Resp: 5529
Ion Ratio Lower Upper
43 100
61 19.6 22.6 33.8#



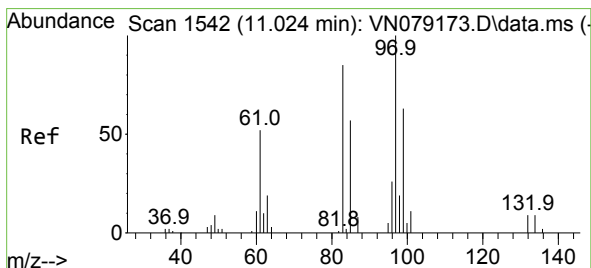
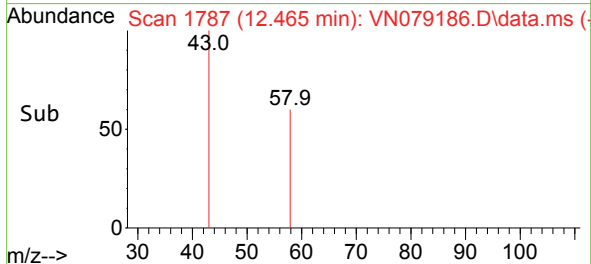
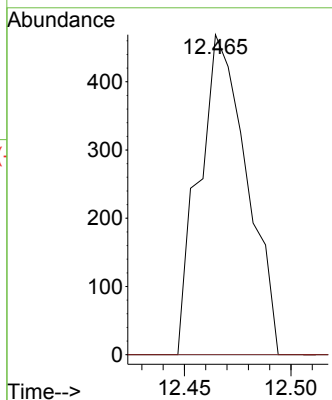


#47
n-amyl acetate
Concen: 0.246 ug/l
RT: 12.465 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN079186.D
Acq: 07 Sep 2023 20:07

Instrument :
MSVOA_N
ClientSampleId :

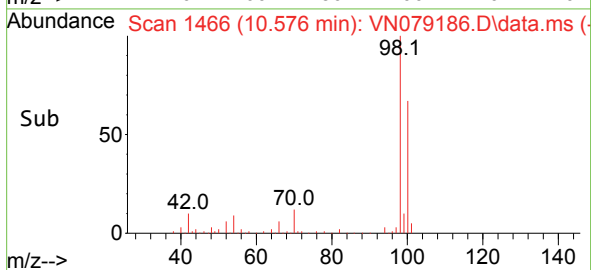
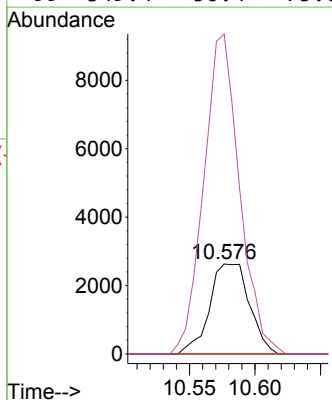
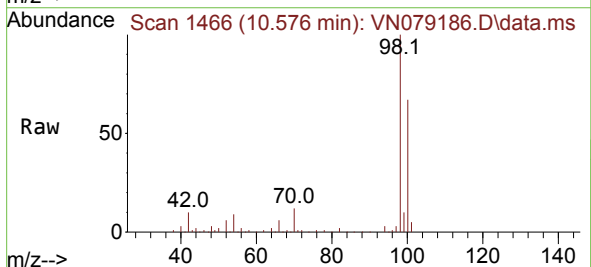


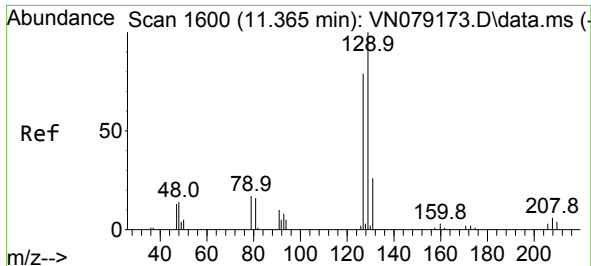
Tgt Ion: 43 Resp: 732
Ion Ratio Lower Upper
43 100
55 0.0 20.5 30.7#



#50
1,1,2-Trichloroethane
Concen: 2.986 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. -0.448 min
Lab File: VN079186.D
Acq: 07 Sep 2023 20:07

Tgt Ion: 97 Resp: 5580
Ion Ratio Lower Upper
97 100
83 0.0 68.9 103.3#
85 0.0 45.3 67.9#
99 349.4 50.4 75.6#

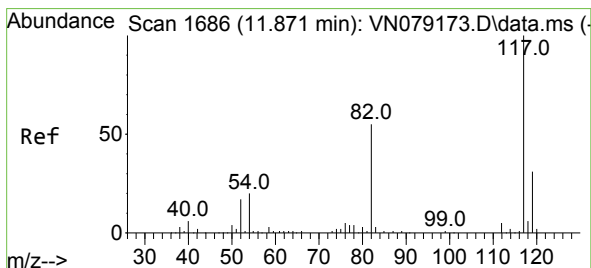
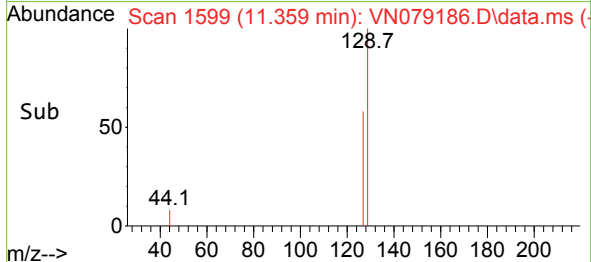
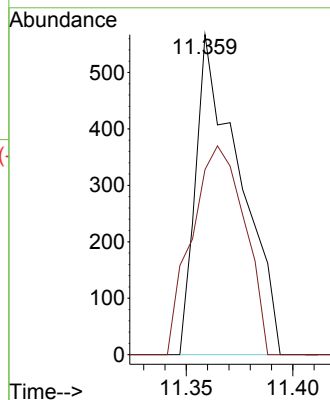
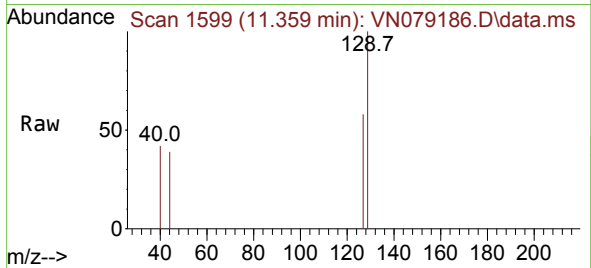




#53
Dibromochloromethane
Concen: 0.414 ug/l
RT: 11.359 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN079186.D
Acq: 07 Sep 2023 20:07

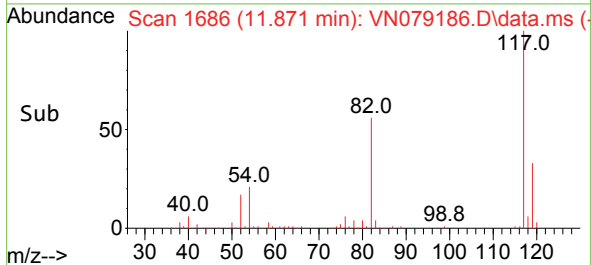
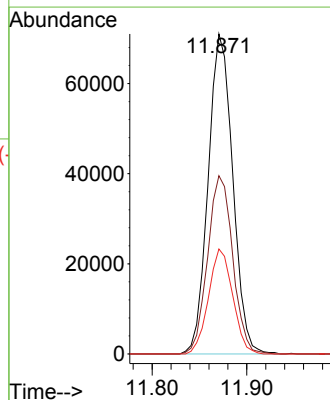
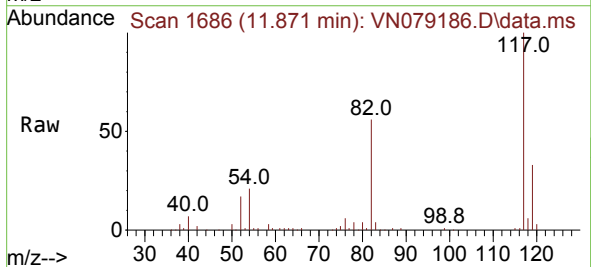
Instrument :
MSVOA_N
ClientSampleId :

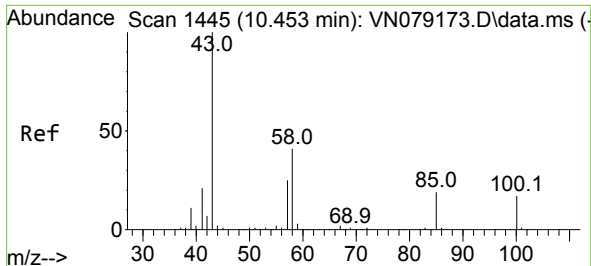
Tgt Ion:129 Resp: 812
Ion Ratio Lower Upper
129 100
127 78.7 38.7 116.1



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. -0.001 min
Lab File: VN079186.D
Acq: 07 Sep 2023 20:07

Tgt Ion:117 Resp: 128108
Ion Ratio Lower Upper
117 100
82 56.7 44.7 67.1
119 32.2 24.9 37.3





#58

4-Methyl-2-Pentanone

Concen: 0.463 ug/l

RT: 10.453 min Scan# 1445

Delta R.T. -0.000 min

Lab File: VN079186.D

Acq: 07 Sep 2023 20:07

Instrument :

MSVOA_N

ClientSampleId :

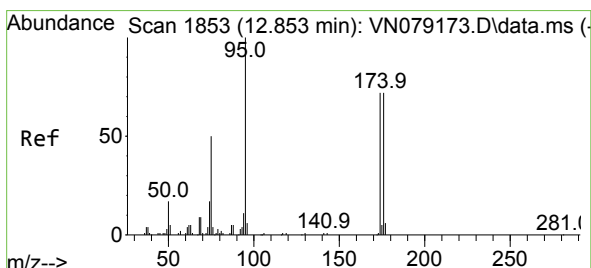
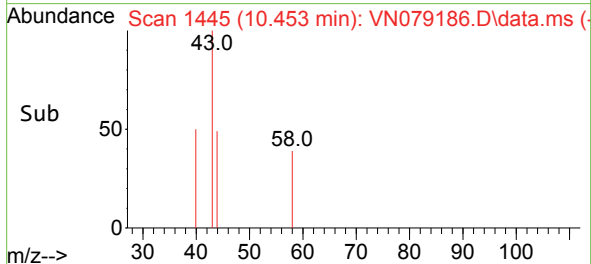
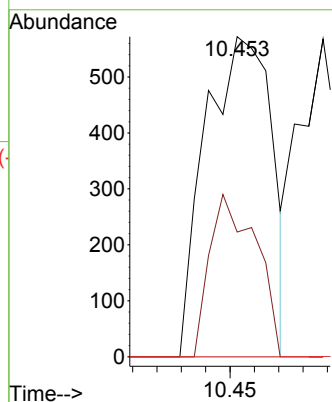
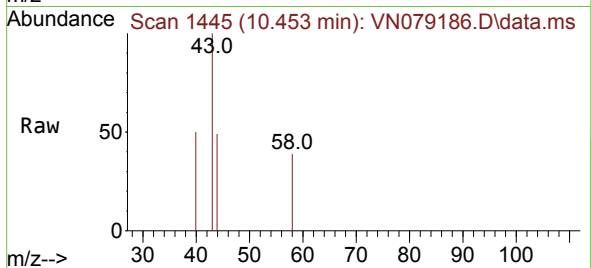
Tgt Ion: 43 Resp: 1089

Ion Ratio Lower Upper

43 100

58 35.4 33.6 50.4

85 0.0 15.0 22.4#



#60

4-Bromofluorobenzene

Concen: 24.247 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.000 min

Lab File: VN079186.D

Acq: 07 Sep 2023 20:07

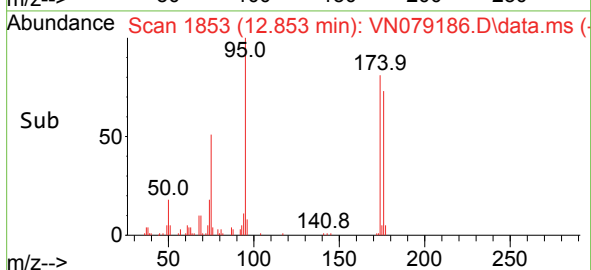
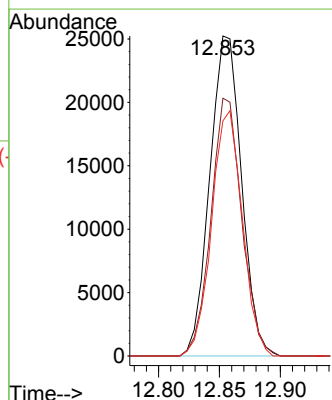
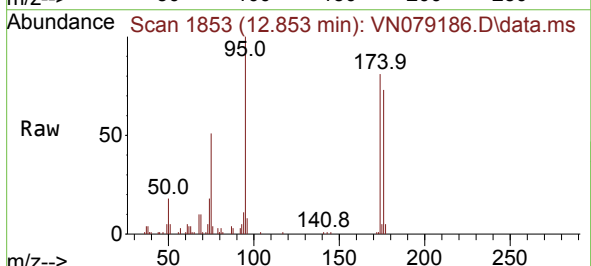
Tgt Ion: 95 Resp: 45768

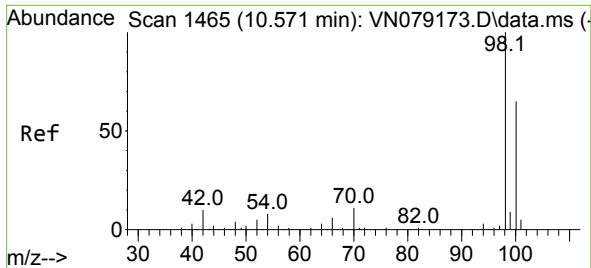
Ion Ratio Lower Upper

95 100

174 78.2 59.5 89.3

176 74.1 59.1 88.7

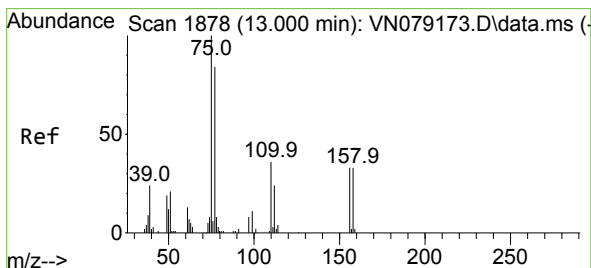
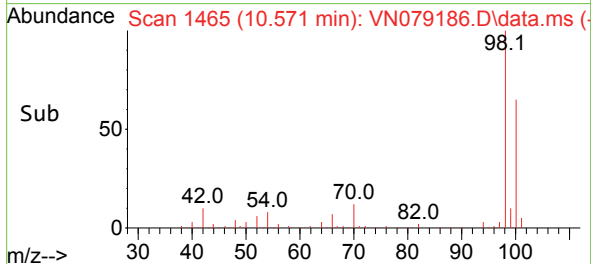
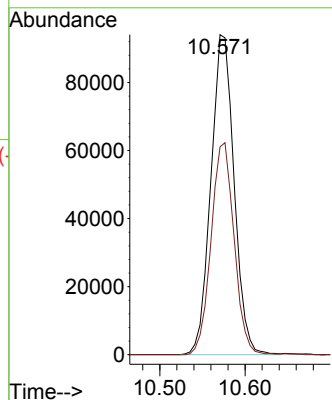
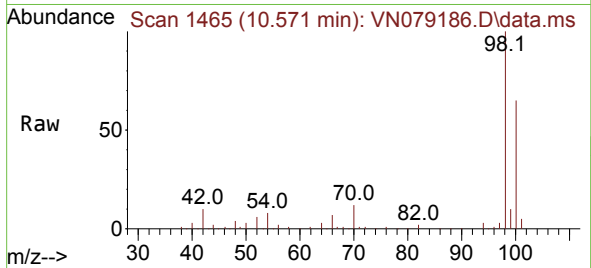




#63
Toluene-d8
Concen: 29.714 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079186.D
Acq: 07 Sep 2023 20:07

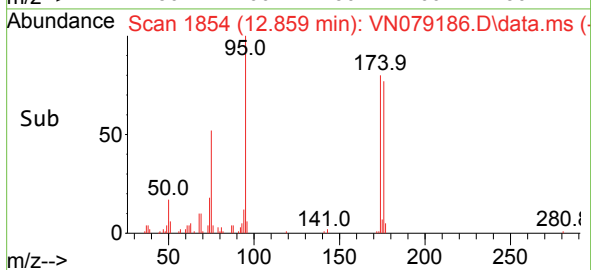
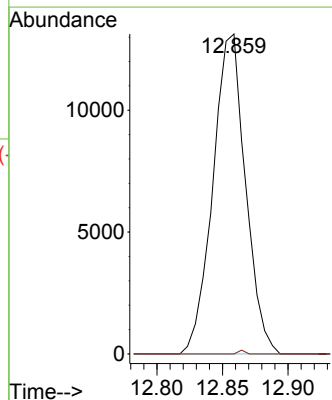
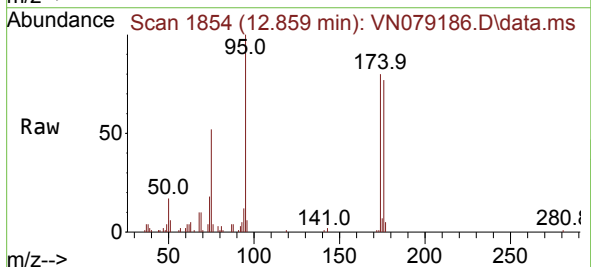
Instrument :
MSVOA_N
ClientSampleId :

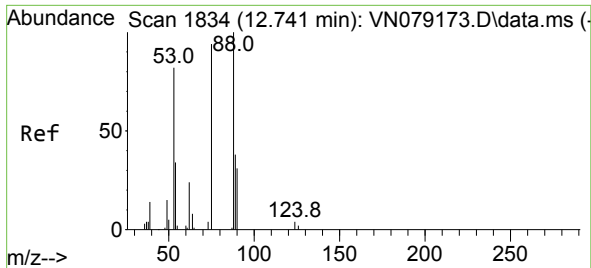
Tgt Ion: 98 Resp: 177896
Ion Ratio Lower Upper
98 100
100 65.5 52.5 78.7



#72
1,2,3-Trichloropropane
Concen: 10.417 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. -0.141 min
Lab File: VN079186.D
Acq: 07 Sep 2023 20:07

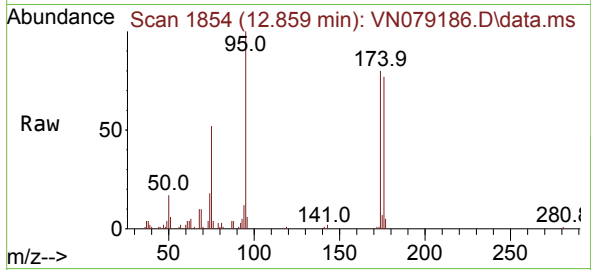
Tgt Ion: 75 Resp: 22714
Ion Ratio Lower Upper
75 100
77 0.0 0.0 252.2





#77
 t-1,4-Dichloro-2-butene
 Concen: 29.588 ug/l
 RT: 12.859 min Scan# 11
 Delta R.T. 0.118 min
 Lab File: VN079186.D
 Acq: 07 Sep 2023 20:07

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 22714
 Ion Ratio Lower Upper
 75 100
 53 0.0 44.1 132.4#
 89 0.0 22.4 67.3#

