

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090723\
 Data File : VN079182.D
 Acq On : 07 Sep 2023 18:29
 Operator : JC\MD
 Sample : 04320-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 08 05:44:52 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)

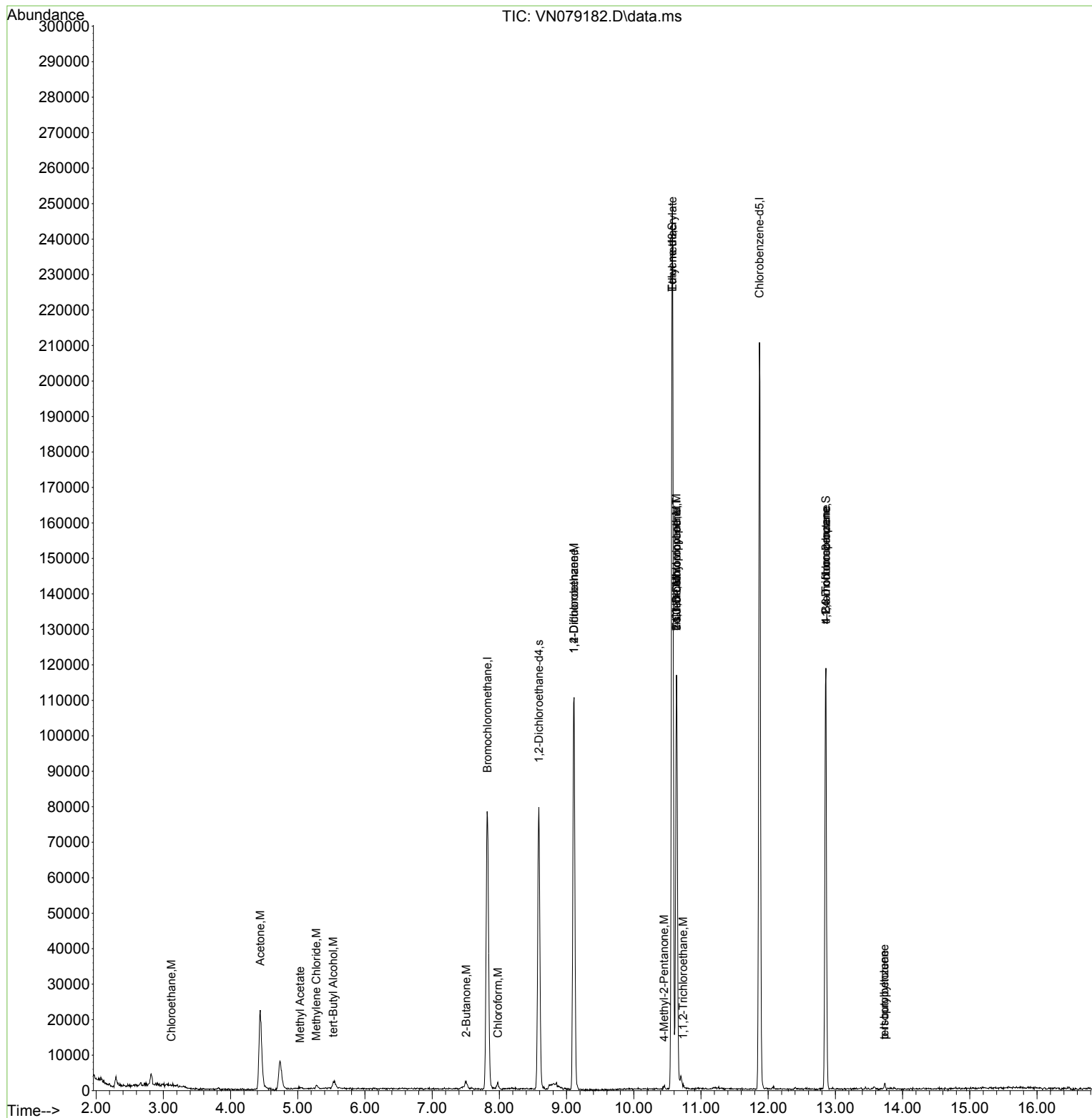
Internal Standards						
1) Bromochloromethane	7.824	128	29488	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	98828	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	130413	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	66232	29.895	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.667%
60) 4-Bromofluorobenzene	12.859	95	44660	23.241	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	77.467%
63) Toluene-d8	10.571	98	186404	30.585	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.933%
Target Compounds						
					Qvalue	
6) Chloroethane	3.118	64	343	0.343	ug/l #	50
12) Methyl Acetate	5.036	43	507	0.210	ug/l #	50
15) Acetone	4.442	58	14833	80.184	ug/l	92
18) Methylene Chloride	5.277	84	518	0.372	ug/l #	37
23) tert-Butyl Alcohol	5.530	59	1942	7.119	ug/l #	100
25) Chloroform	7.977	83	1803	0.513	ug/l	97
30) 2-Butanone	7.506	43	3914	4.911	ug/l #	87
36) 1,2-Dichloroethane	9.112	62	3413	2.056	ug/l #	73
48) t-1,3-Dichloropropene	10.635	75	562	0.304	ug/l #	65
49) cis-1,3-Dichloropropene	10.635	75	562	0.292	ug/l #	1
50) 1,1,2-Trichloroethane	10.735	97	276	0.230	ug/l #	15
51) Ethyl methacrylate	10.577	69	398	0.215	ug/l #	20
55) 2-Chloroethyl vinyl ether	10.635	63	5292	8.027	ug/l #	1
58) 4-Methyl-2-Pentanone	10.453	43	1061	0.443	ug/l #	48
62) Toluene	10.635	91	93500	12.313	ug/l	99
72) 1,2,3-Trichloropropane	12.859	75	22264	10.030	ug/l	1
77) t-1,4-Dichloro-2-butene	12.859	75	22264	28.489	ug/l #	14
79) tert-butylbenzene	13.729	119	1224	0.256	ug/l	56
82) p-Isopropyltoluene	13.729	119	1224	0.237	ug/l	90

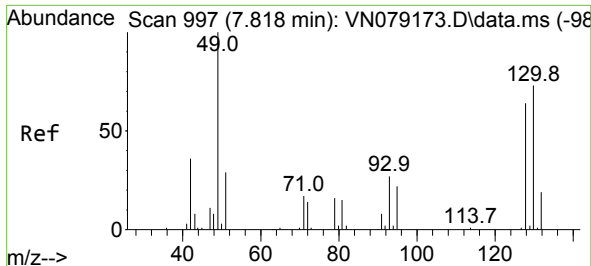
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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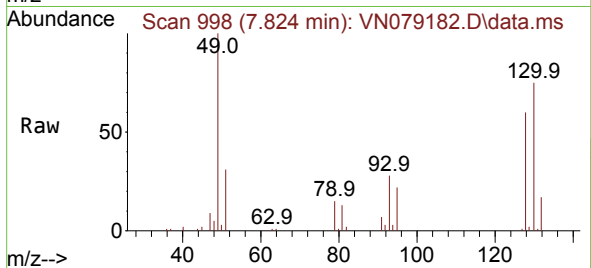
Quant Time: Sep 08 05:44:52 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 08 05:09:17 2023
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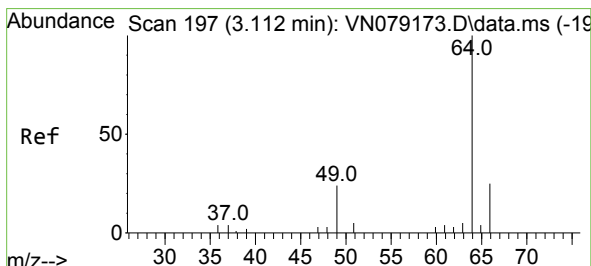
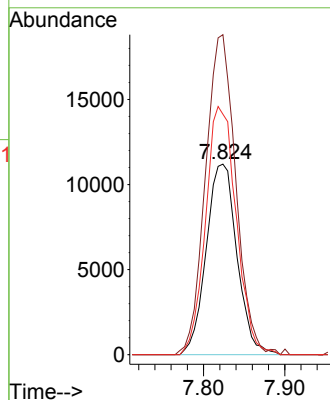
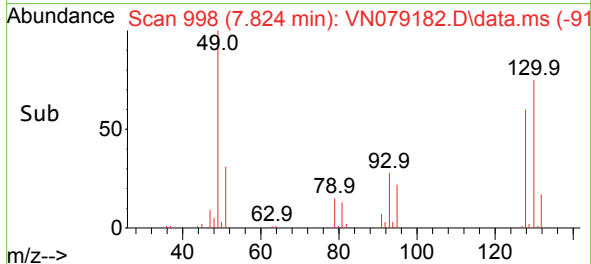


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 998
Delta R.T. 0.006 min
Lab File: VN079182.D
Acq: 07 Sep 2023 18:29

Instrument :
MSVOA_N
ClientSampleId :

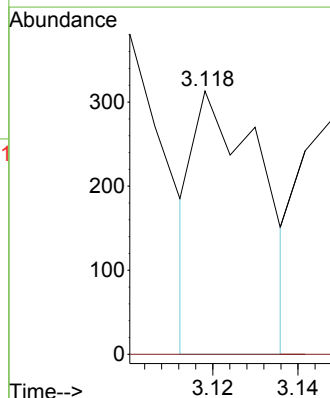
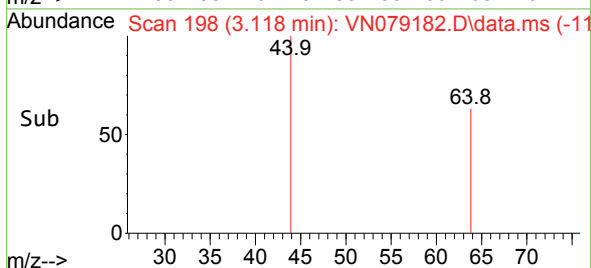
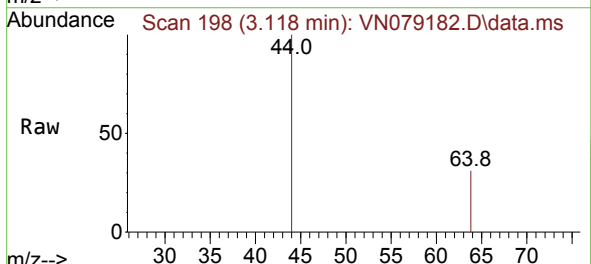


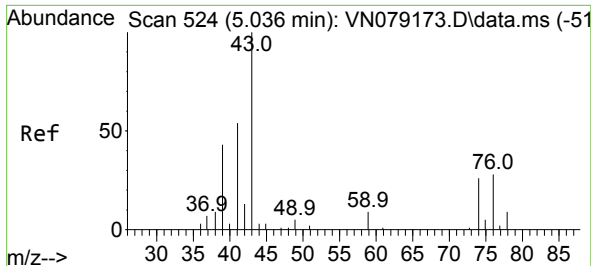
Tgt Ion:128 Resp: 29488
Ion Ratio Lower Upper
128 100
49 164.7 0.0 414.3
130 130.4 0.0 311.0



#6
Chloroethane
Concen: 0.343 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.006 min
Lab File: VN079182.D
Acq: 07 Sep 2023 18:29

Tgt Ion: 64 Resp: 343
Ion Ratio Lower Upper
64 100
66 0.0 20.1 30.1#





#12

Methyl Acetate

Concen: 0.210 ug/l

RT: 5.036 min Scan# 51

Delta R.T. -0.000 min

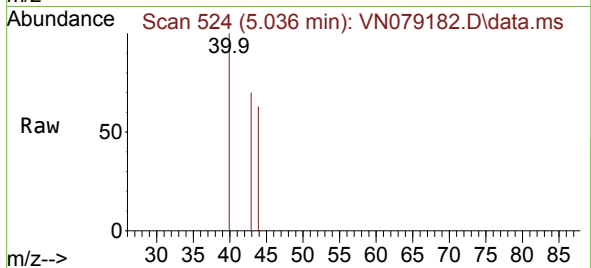
Lab File: VN079182.D

Acq: 07 Sep 2023 18:29

Instrument :

MSVOA_N

ClientSampleId :

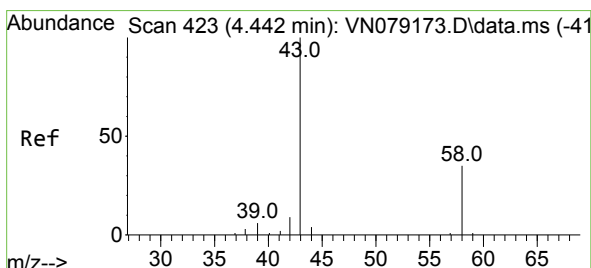
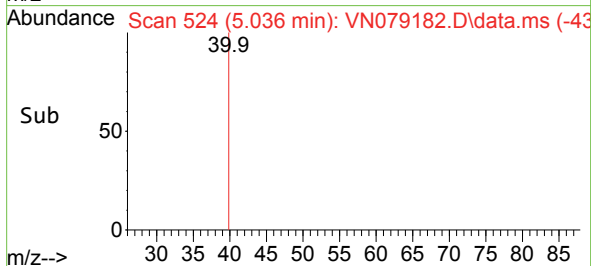
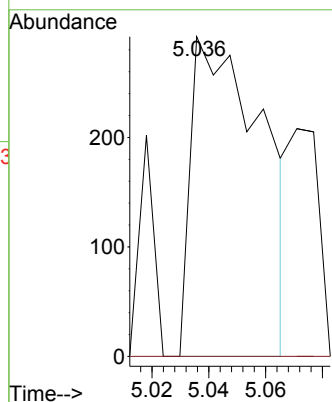


Tgt Ion: 43 Resp: 507

Ion Ratio Lower Upper

43 100

74 0.0 20.4 30.6#



#15

Acetone

Concen: 80.184 ug/l

RT: 4.442 min Scan# 423

Delta R.T. -0.000 min

Lab File: VN079182.D

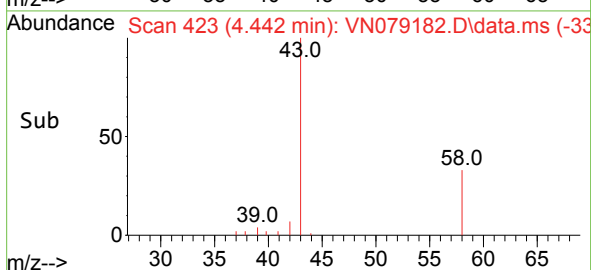
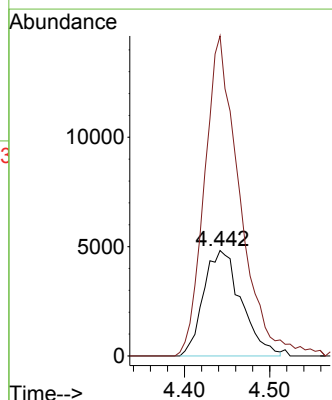
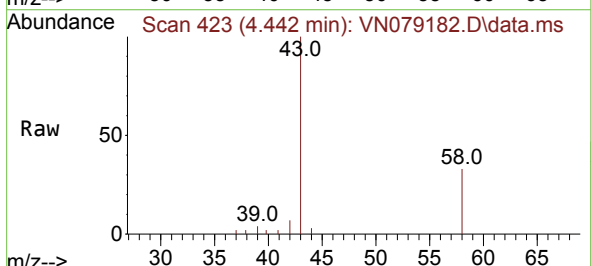
Acq: 07 Sep 2023 18:29

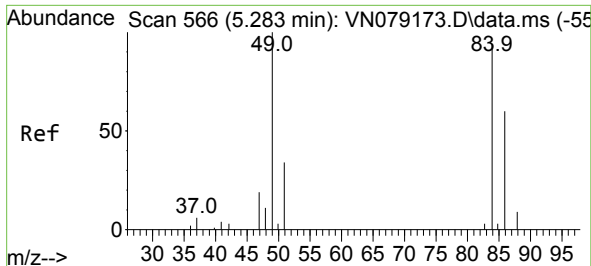
Tgt Ion: 58 Resp: 14833

Ion Ratio Lower Upper

58 100

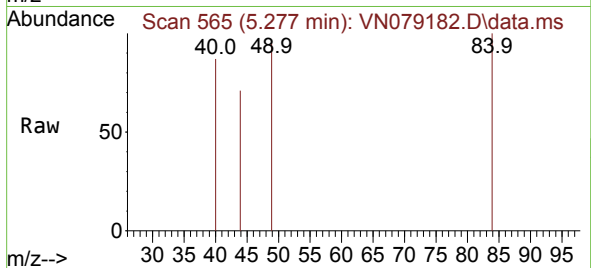
43 300.0 228.3 342.5



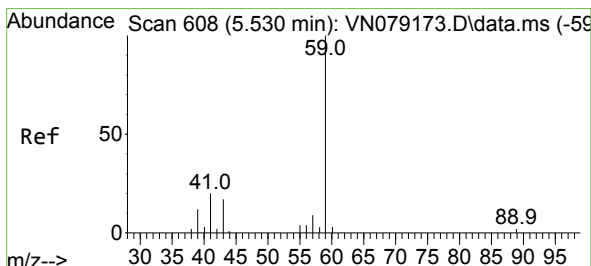
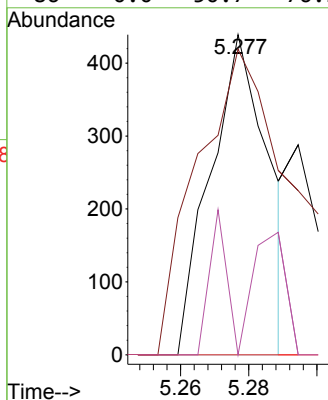
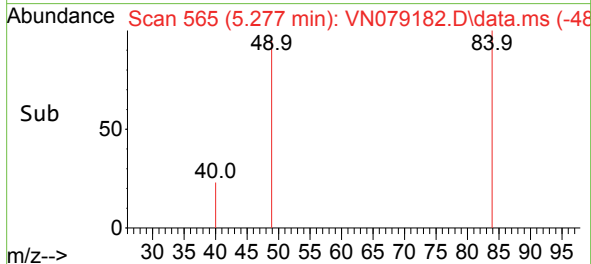


#18
Methylene Chloride
Concen: 0.372 ug/l
RT: 5.277 min Scan# 518
Delta R.T. -0.006 min
Lab File: VN079182.D
Acq: 07 Sep 2023 18:29

Instrument :
MSVOA_N
ClientSampleId :

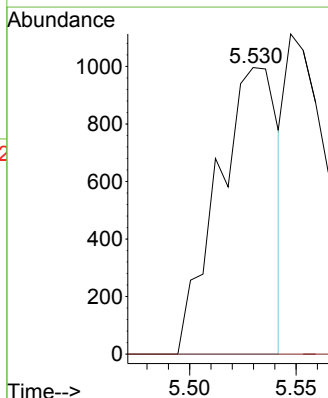
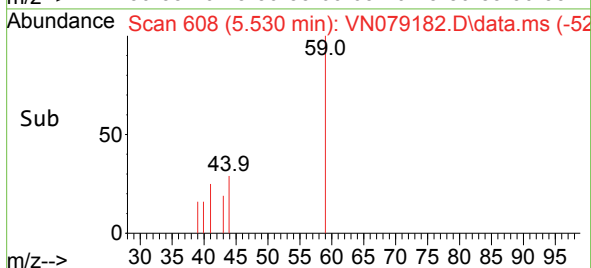
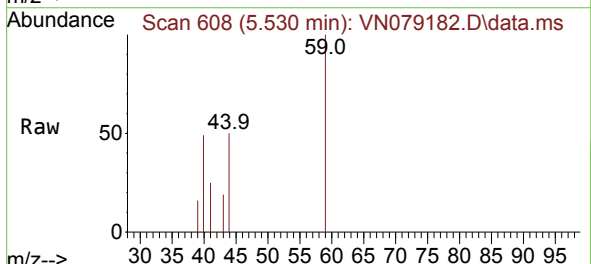


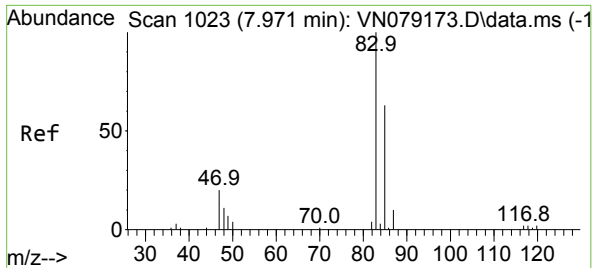
Tgt Ion: 84	Resp: 518
Ion Ratio	Lower Upper
84 100	
49 52.6	86.9 130.3#
51 0.0	28.6 43.0#
86 0.0	50.7 76.1#



#23
tert-Butyl Alcohol
Concen: 7.119 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.000 min
Lab File: VN079182.D
Acq: 07 Sep 2023 18:29

Tgt Ion: 59	Resp: 1942
Ion Ratio	Lower Upper
59 100	
52 0.0	0.0 0.0





#25

Chloroform

Concen: 0.513 ug/l

RT: 7.977 min Scan# 1024

Delta R.T. 0.006 min

Lab File: VN079182.D

Acq: 07 Sep 2023 18:29

Instrument :

MSVOA_N

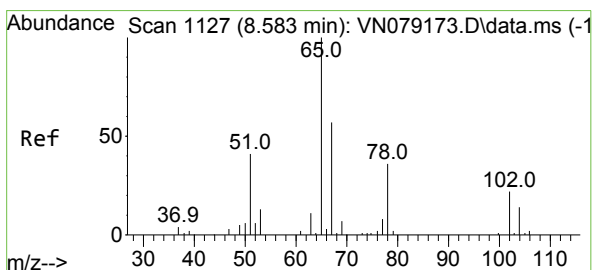
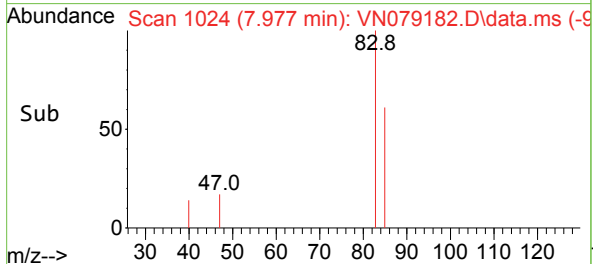
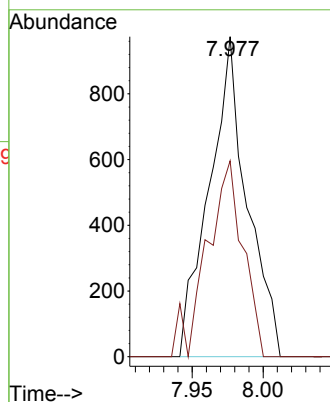
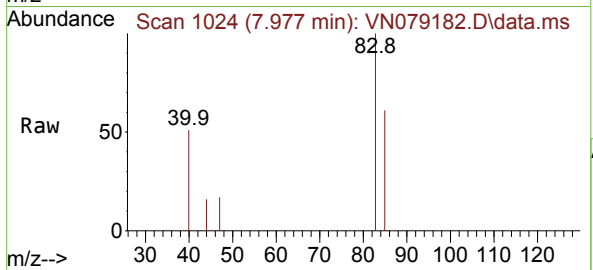
ClientSampleId :

Tgt Ion: 83 Resp: 1803

Ion Ratio Lower Upper

83 100

85 61.2 50.6 76.0



#27

1,2-Dichloroethane-d4

Concen: 29.895 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.005 min

Lab File: VN079182.D

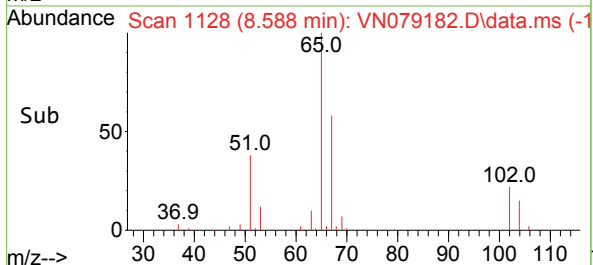
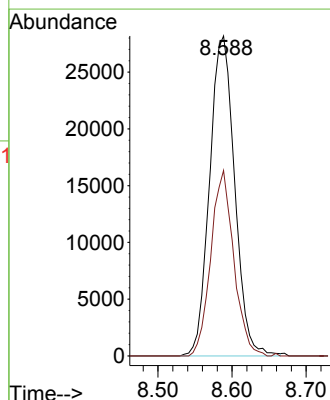
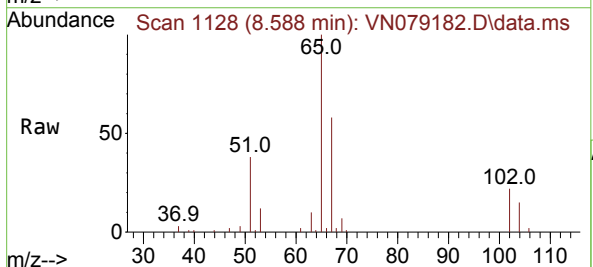
Acq: 07 Sep 2023 18:29

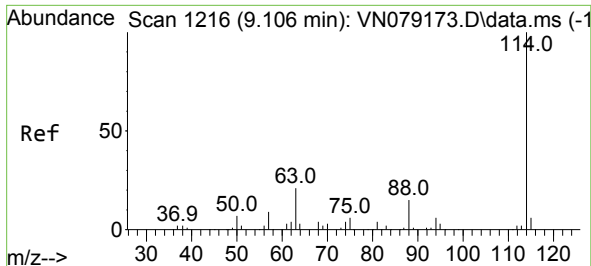
Tgt Ion: 65 Resp: 66232

Ion Ratio Lower Upper

65 100

67 53.1 44.4 66.6

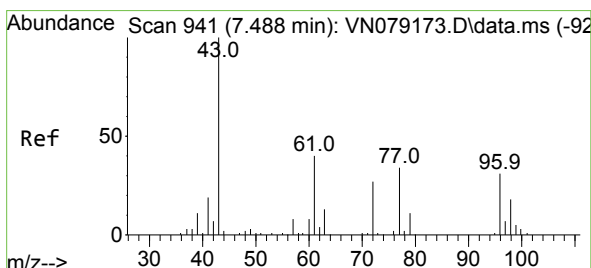
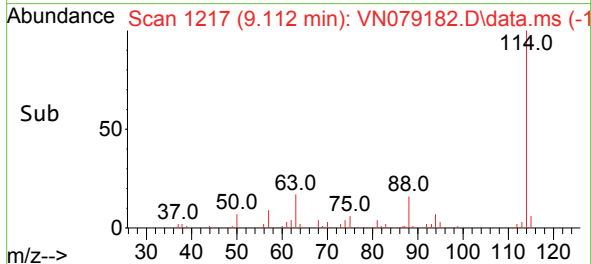
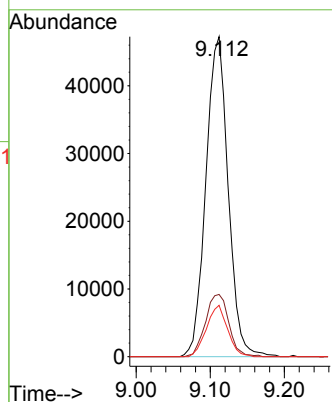
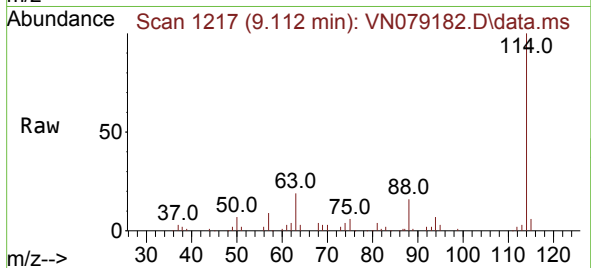




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.112 min Scan# 114
 Delta R.T. 0.006 min
 Lab File: VN079182.D
 Acq: 07 Sep 2023 18:29

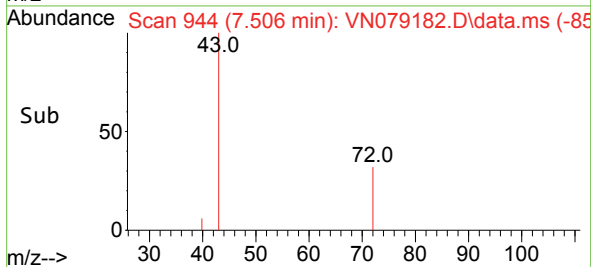
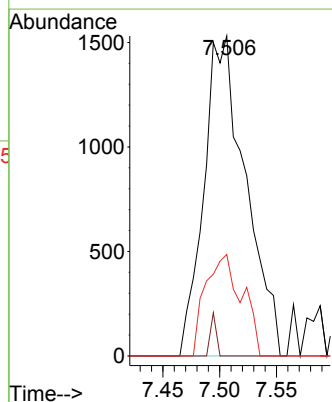
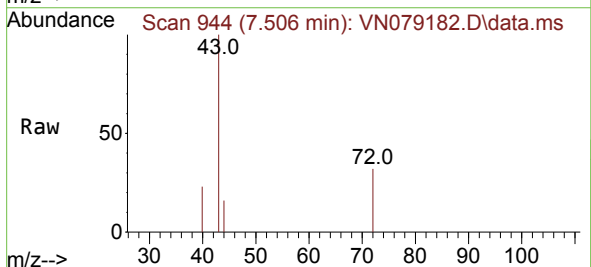
Instrument :
 MSVOA_N
 ClientSampleId :

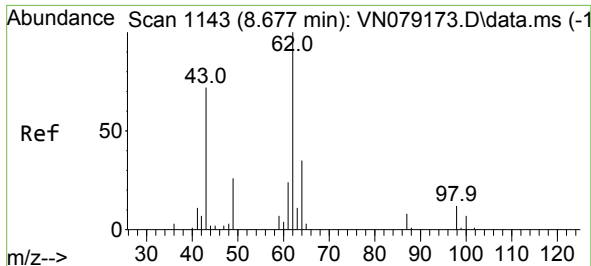
Tgt Ion:114 Resp: 98828
 Ion Ratio Lower Upper
 114 100
 63 20.4 17.0 25.4
 88 15.2 12.8 19.2



#30
 2-Butanone
 Concen: 4.911 ug/l
 RT: 7.506 min Scan# 944
 Delta R.T. 0.018 min
 Lab File: VN079182.D
 Acq: 07 Sep 2023 18:29

Tgt Ion: 43 Resp: 3914
 Ion Ratio Lower Upper
 43 100
 57 0.0 6.8 10.2#
 72 22.9 22.4 33.6





#36

1,2-Dichloroethane

Concen: 2.056 ug/l

RT: 9.112 min Scan# 1143

Delta R.T. 0.435 min

Lab File: VN079182.D

Acq: 07 Sep 2023 18:29

Instrument :

MSVOA_N

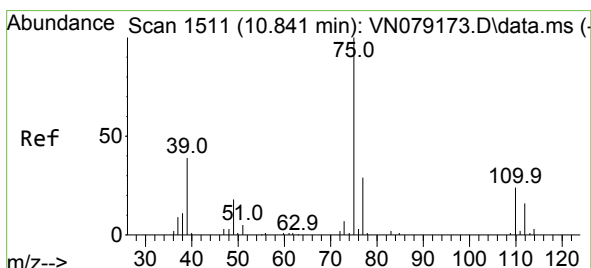
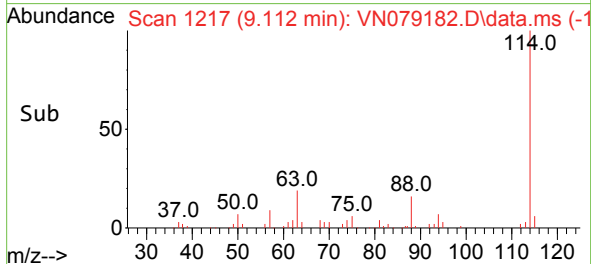
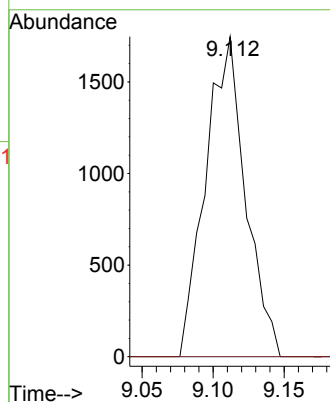
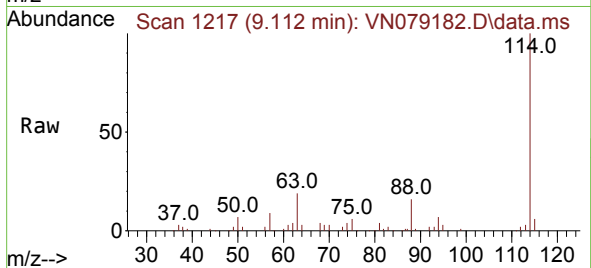
ClientSampleId :

Tgt Ion: 62 Resp: 3413

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.2#



#48

t-1,3-Dichloropropene

Concen: 0.304 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. -0.206 min

Lab File: VN079182.D

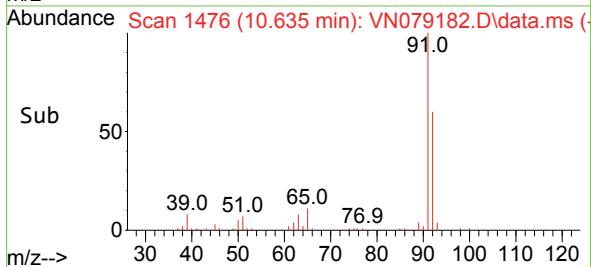
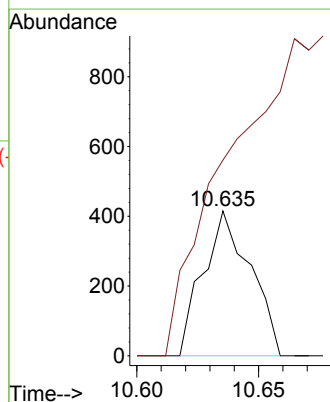
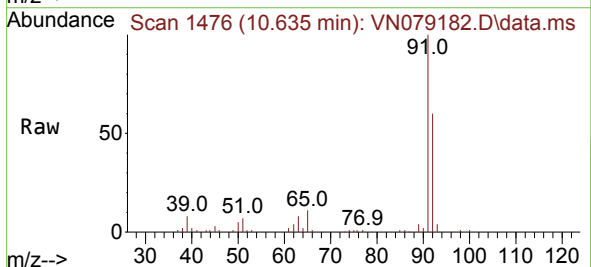
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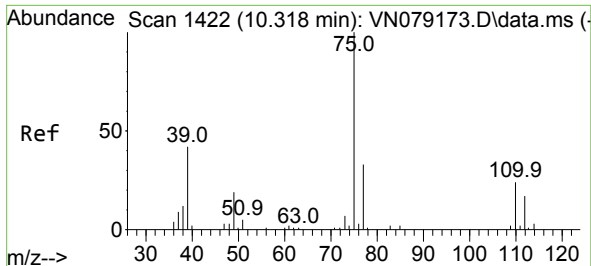
Tgt Ion: 75 Resp: 562

Ion Ratio Lower Upper

75 100

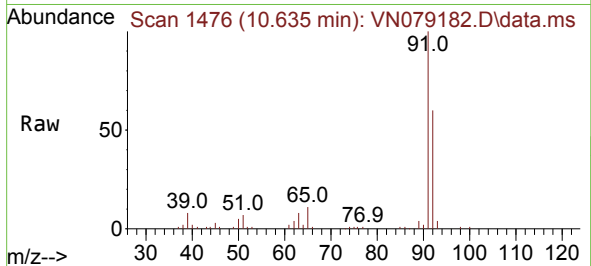
77 47.2 22.9 34.3#



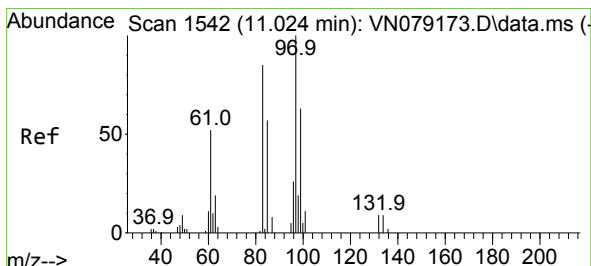
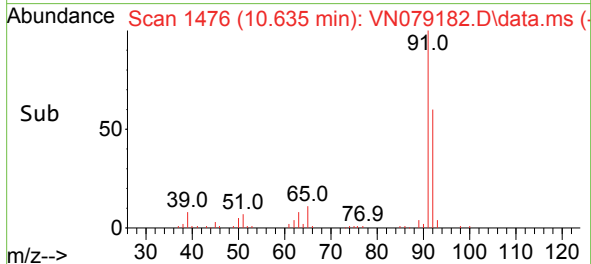
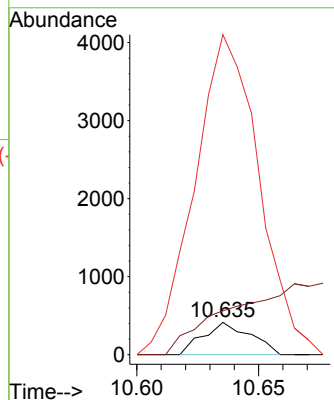


#49
 cis-1,3-Dichloropropene
 Concen: 0.292 ug/l
 RT: 10.635 min Scan# 1476
 Delta R.T. 0.317 min
 Lab File: VN079182.D
 Acq: 07 Sep 2023 18:29

Instrument :
 MSVOA_N
 ClientSampleId :

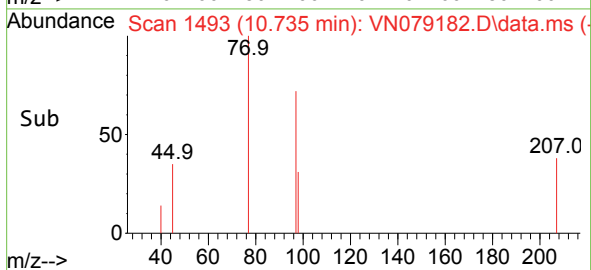
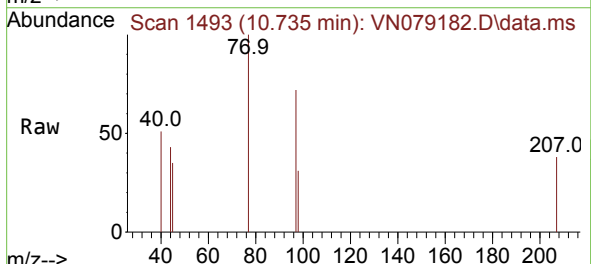
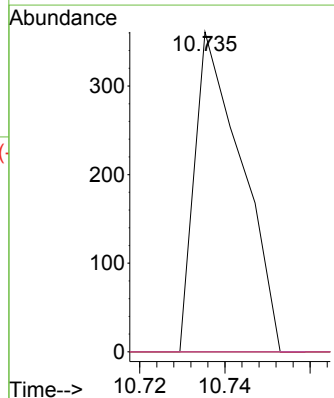


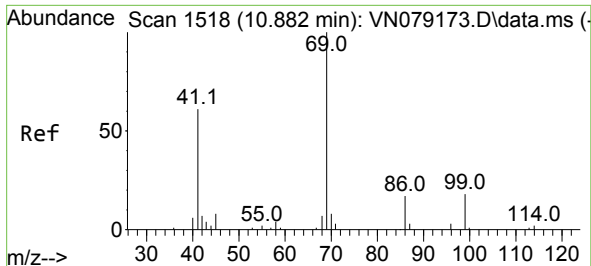
Tgt Ion: 75 Resp: 562
 Ion Ratio Lower Upper
 75 100
 77 47.2 26.2 39.2#
 39 470.1 33.8 50.8#



#50
 1,1,2-Trichloroethane
 Concen: 0.230 ug/l
 RT: 10.735 min Scan# 1493
 Delta R.T. -0.289 min
 Lab File: VN079182.D
 Acq: 07 Sep 2023 18:29

Tgt Ion: 97 Resp: 276
 Ion Ratio Lower Upper
 97 100
 83 0.0 68.9 103.3#
 85 0.0 45.3 67.9#
 99 0.0 50.4 75.6#

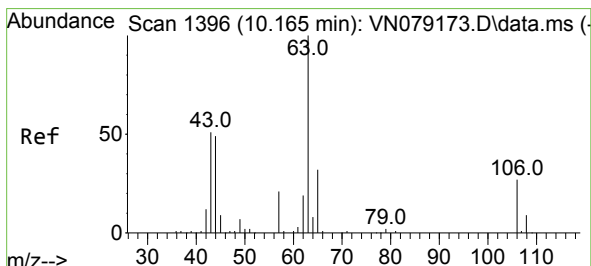
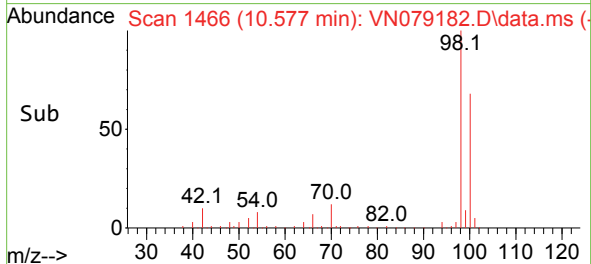
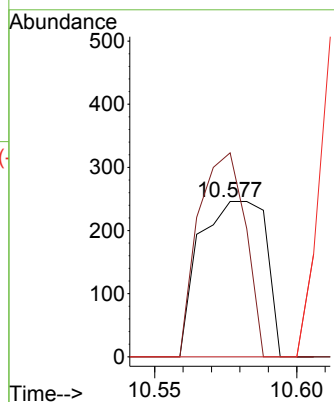
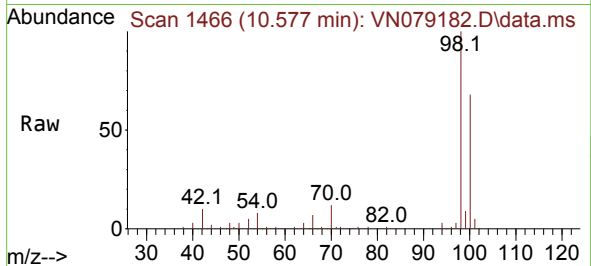




#51
Ethyl methacrylate
Concen: 0.215 ug/l
RT: 10.577 min Scan# 1466
Delta R.T. -0.305 min
Lab File: VN079182.D
Acq: 07 Sep 2023 18:29

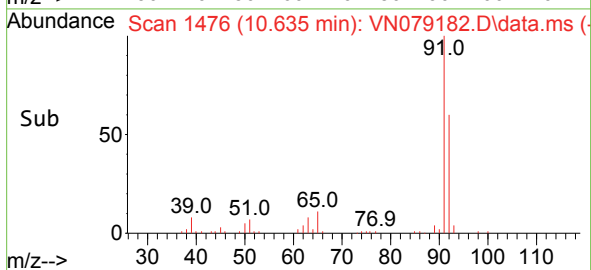
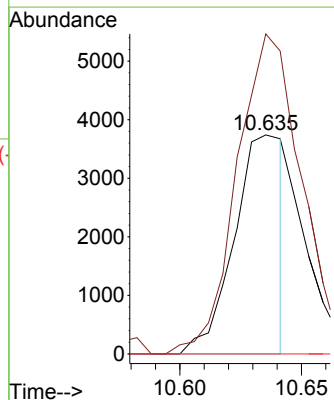
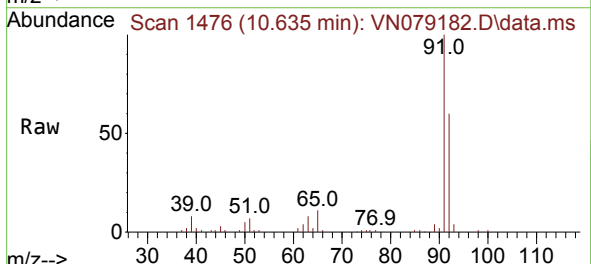
Instrument :
MSVOA_N
ClientSampleId :

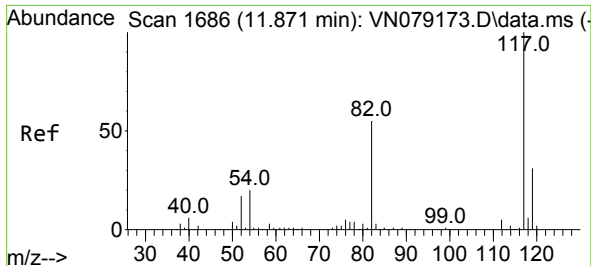
Tgt Ion: 69 Resp: 398
Ion Ratio Lower Upper
69 100
41 131.3 30.3 90.9#
39 0.0 13.4 40.1#



#55
2-Chloroethyl vinyl ether
Concen: 8.027 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.470 min
Lab File: VN079182.D
Acq: 07 Sep 2023 18:29

Tgt Ion: 63 Resp: 5292
Ion Ratio Lower Upper
63 100
65 138.0 25.7 38.5#
106 0.0 21.9 32.9#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. -0.000 min

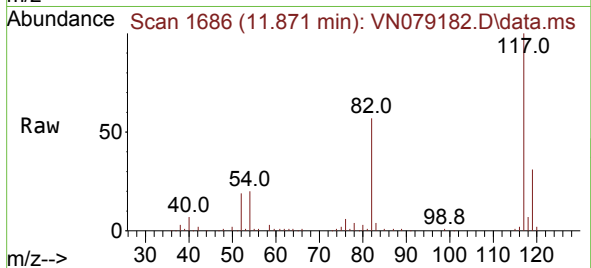
Lab File: VN079182.D

Acq: 07 Sep 2023 18:29

Instrument :

MSVOA_N

ClientSampleId :



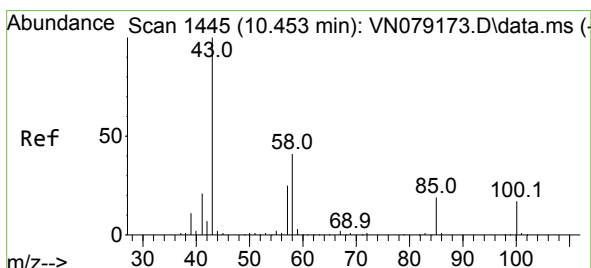
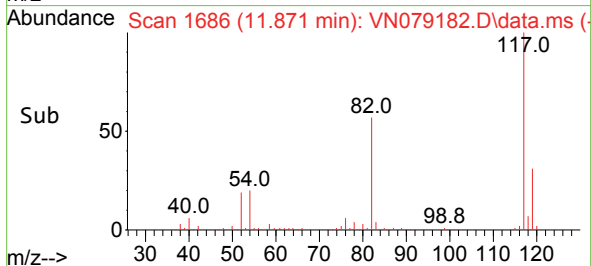
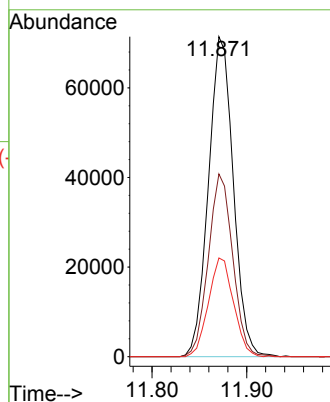
Tgt Ion:117 Resp: 130413

Ion Ratio Lower Upper

117 100

82 56.0 44.7 67.1

119 31.0 24.9 37.3



#58

4-Methyl-2-Pentanone

Concen: 0.443 ug/l

RT: 10.453 min Scan# 1445

Delta R.T. -0.000 min

Lab File: VN079182.D

Acq: 07 Sep 2023 18:29

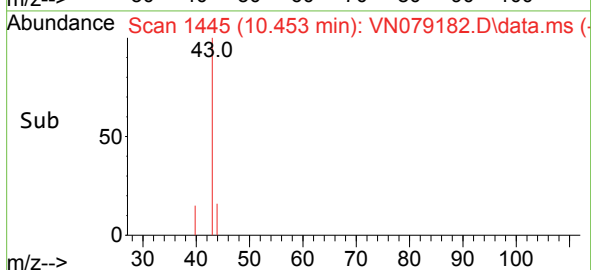
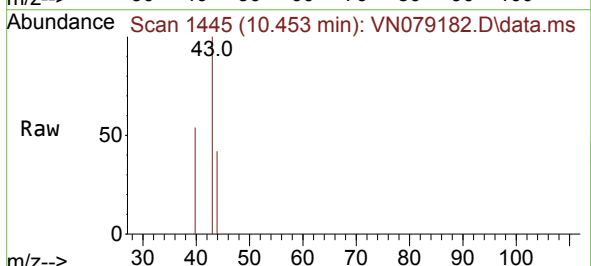
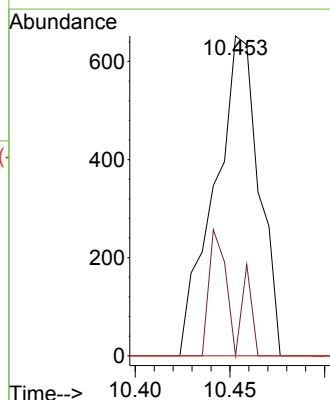
Tgt Ion: 43 Resp: 1061

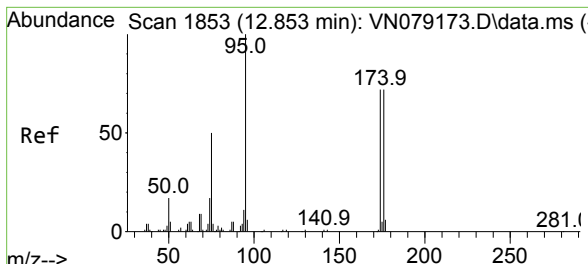
Ion Ratio Lower Upper

43 100

58 6.2 33.6 50.4#

85 0.0 15.0 22.4#

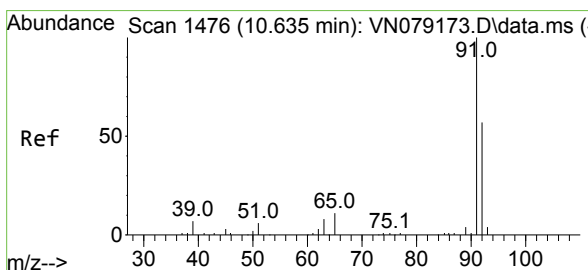
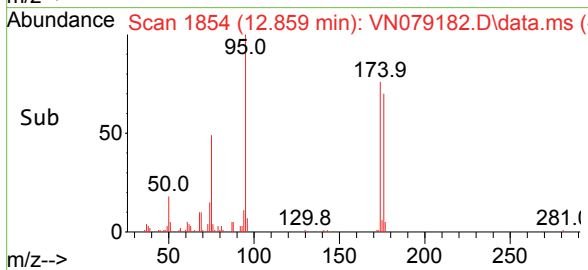
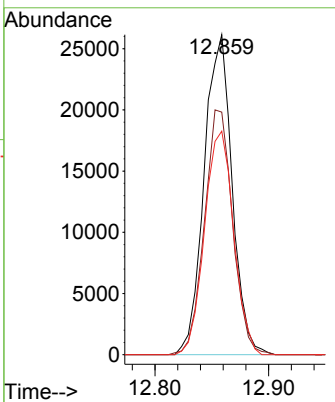
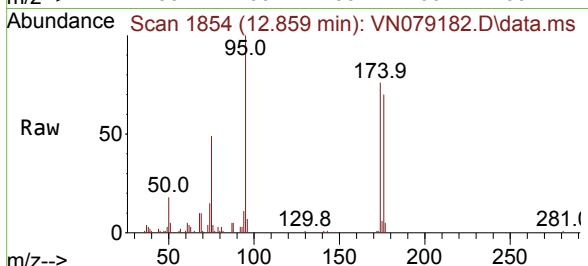




#60
 4-Bromofluorobenzene
 Concen: 23.241 ug/l
 RT: 12.859 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VN079182.D
 Acq: 07 Sep 2023 18:29

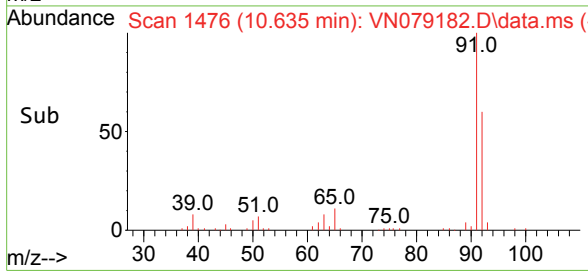
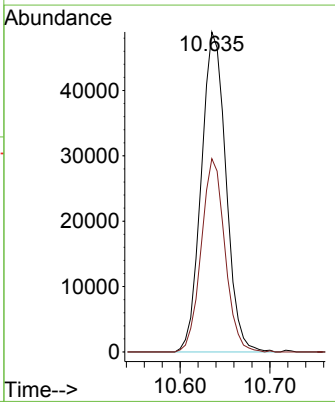
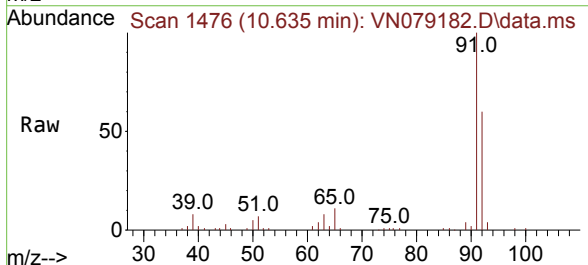
Instrument :
 MSVOA_N
 ClientSampleId :

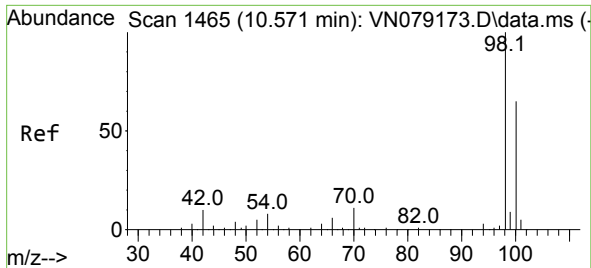
Tgt Ion:	95	Resp:	44660
Ion	Ratio	Lower	Upper
95	100		
174	77.3	59.5	89.3
176	73.0	59.1	88.7



#62
 Toluene
 Concen: 12.313 ug/l
 RT: 10.635 min Scan# 1476
 Delta R.T. 0.000 min
 Lab File: VN079182.D
 Acq: 07 Sep 2023 18:29

Tgt Ion:	91	Resp:	93500
Ion	Ratio	Lower	Upper
91	100		
92	57.9	45.7	68.5

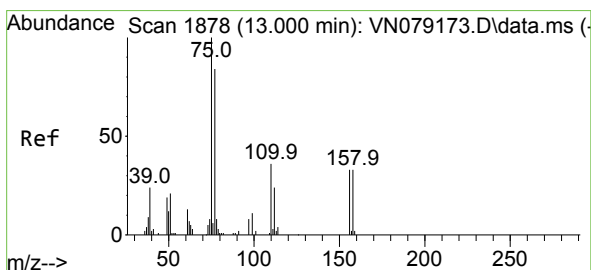
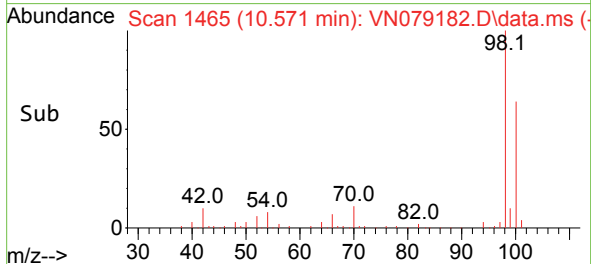
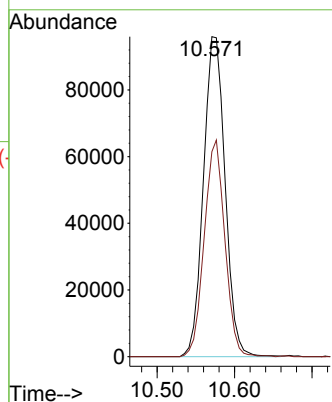
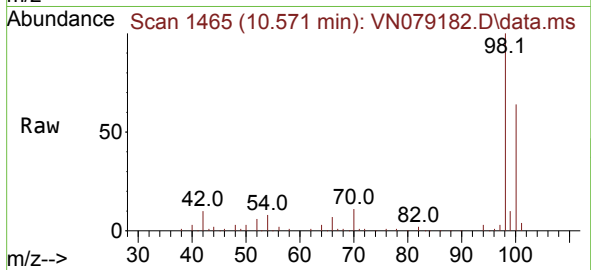




#63
Toluene-d8
Concen: 30.585 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079182.D
Acq: 07 Sep 2023 18:29

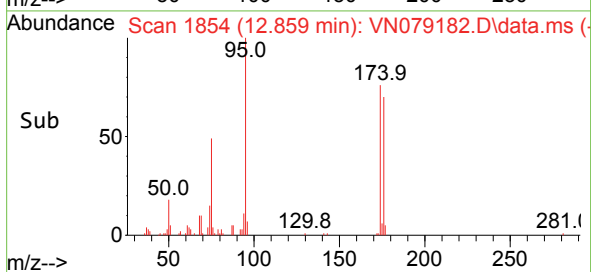
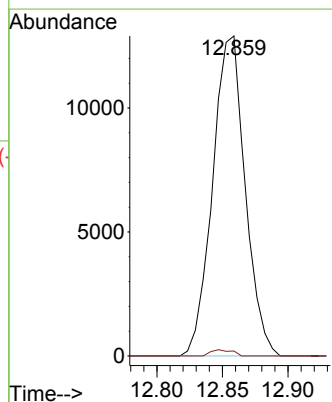
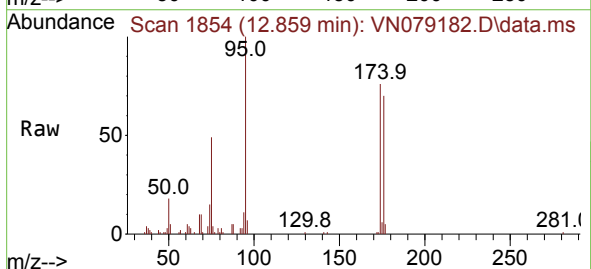
Instrument :
MSVOA_N
ClientSampleId :

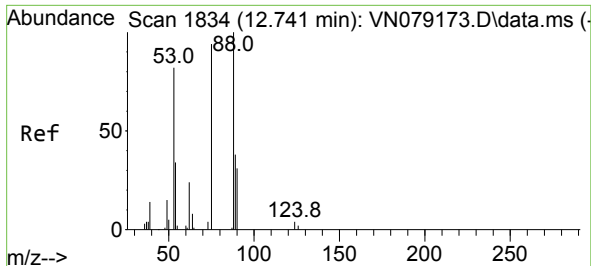
Tgt Ion: 98 Resp: 186404
Ion Ratio Lower Upper
98 100
100 64.3 52.5 78.7



#72
1,2,3-Trichloropropane
Concen: 10.030 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. -0.141 min
Lab File: VN079182.D
Acq: 07 Sep 2023 18:29

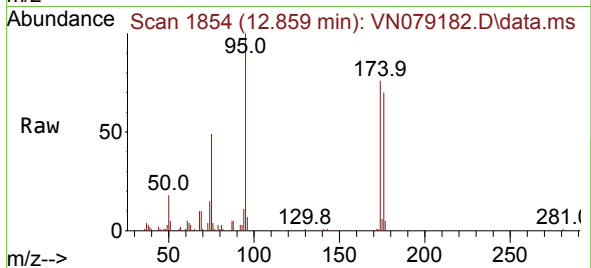
Tgt Ion: 75 Resp: 22264
Ion Ratio Lower Upper
75 100
77 1.3 0.0 252.2



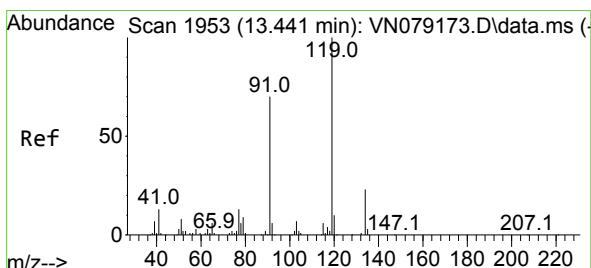
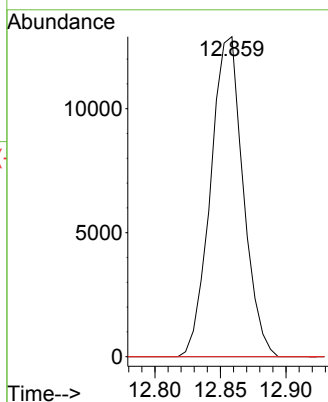
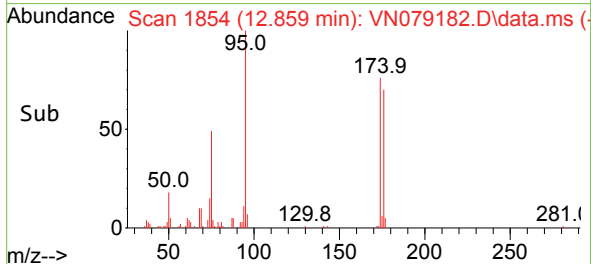


#77
t-1,4-Dichloro-2-butene
Concen: 28.489 ug/l
RT: 12.859 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN079182.D
Acq: 07 Sep 2023 18:29

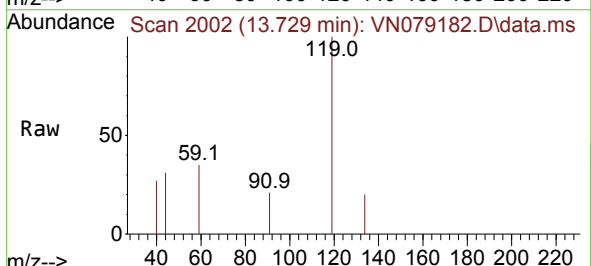
Instrument :
MSVOA_N
ClientSampleId :



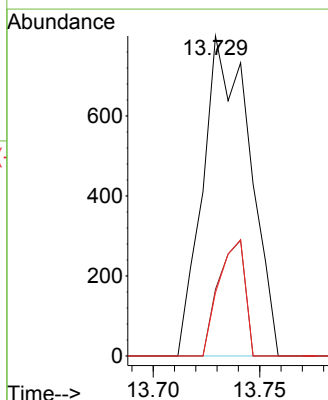
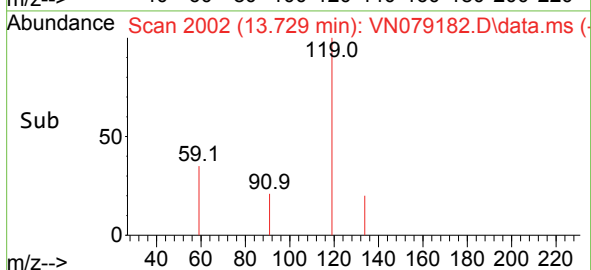
Tgt Ion: 75 Resp: 22264
Ion Ratio Lower Upper
75 100
53 0.0 44.1 132.4#
89 0.0 22.4 67.3#

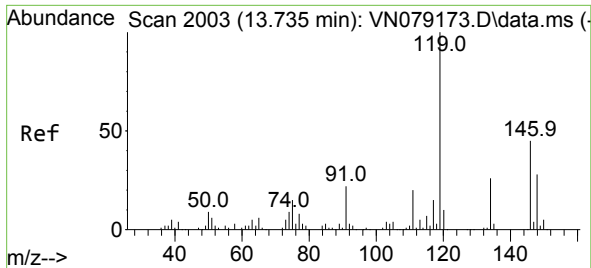


#79
tert-butylbenzene
Concen: 0.256 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.288 min
Lab File: VN079182.D
Acq: 07 Sep 2023 18:29



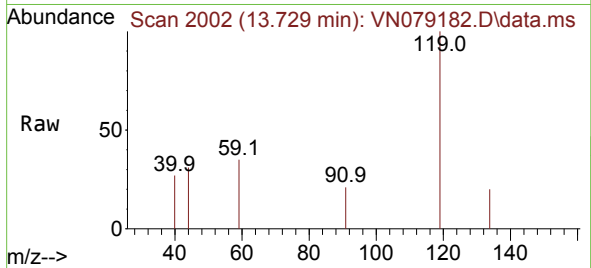
Tgt Ion: 119 Resp: 1224
Ion Ratio Lower Upper
119 100
91 20.5 0.0 130.8
134 20.3 0.0 48.8





#82
 p-Isopropyltoluene
 Concen: 0.237 ug/l
 RT: 13.729 min Scan# 20
 Delta R.T. -0.006 min
 Lab File: VN079182.D
 Acq: 07 Sep 2023 18:29

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	119	Resp:	1224
Ion	Ratio	Lower	Upper
119	100		
134	20.3	0.0	53.8
91	20.5	0.0	48.0

