

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041724\
 Data File : VN081773.D
 Acq On : 17 Apr 2024 15:13
 Operator : JC\MD
 Sample : P2116-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 18 01:12:16 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 11 09:25:01 2024
 Response via : Initial Calibration

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

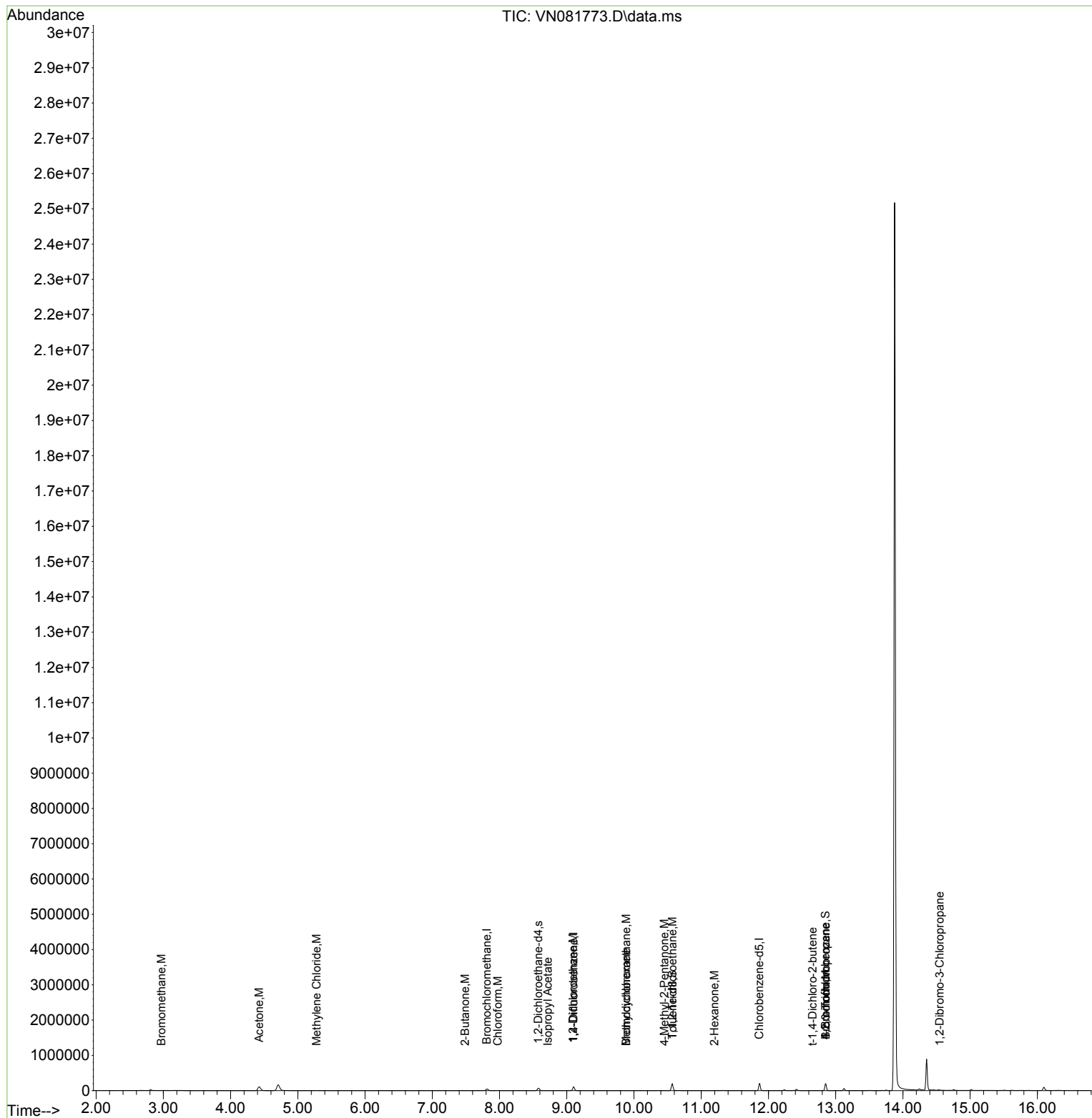
Internal Standards						
1) Bromochloromethane	7.812	128	16546	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	9.100	114	86470	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	112884	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	56430	27.762	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	92.533%
60) 4-Bromofluorobenzene	12.847	95	64012	28.843	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.133%
63) Toluene-d8	10.571	98	130474	28.815	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.033%
Target Compounds						
					Qvalue	
5) Bromomethane	2.971	94	379	0.217	ug/l	82
15) Acetone	4.424	58	62378	291.222	ug/l	87
18) Methylene Chloride	5.277	84	502	0.205	ug/l #	13
25) Chloroform	7.971	83	4433	0.952	ug/l	98
30) 2-Butanone	7.488	43	178	0.205	ug/l #	52
36) 1,2-Dichloroethane	9.094	62	3778	1.573	ug/l #	72
38) Methylcyclohexane	9.882	83	593	0.213	ug/l #	19
41) Bromodichloromethane	9.882	83	593	0.214	ug/l #	27
44) Isopropyl Acetate	8.718	43	767	0.239	ug/l #	43
50) 1,1,2-Trichloroethane	10.571	97	4785	2.626	ug/l #	1
56) Bromoform	12.853	173	727	0.522	ug/l #	1
58) 4-Methyl-2-Pentanone	10.453	43	417	0.215	ug/l #	38
59) 2-Hexanone	11.194	43	1179	0.809	ug/l #	76
72) 1,2,3-Trichloropropane	12.853	75	34678	16.928	ug/l	1
77) t-1,4-Dichloro-2-butene	12.659	75	334	0.394	ug/l #	12
88) 1,2-Dibromo-3-Chloropr...	14.547	75	135	0.280	ug/l #	4

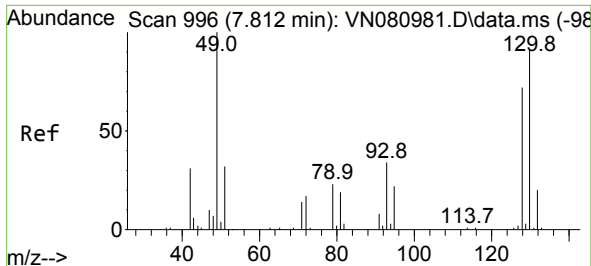
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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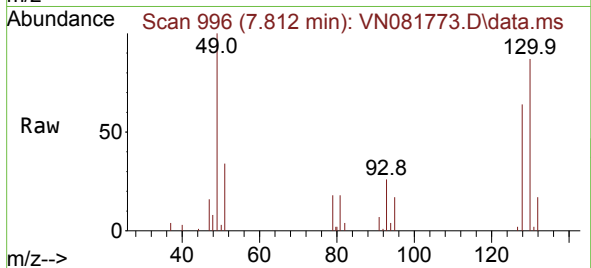
Quant Time: Apr 18 01:12:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Apr 11 09:25:01 2024
Response via : Initial Calibration



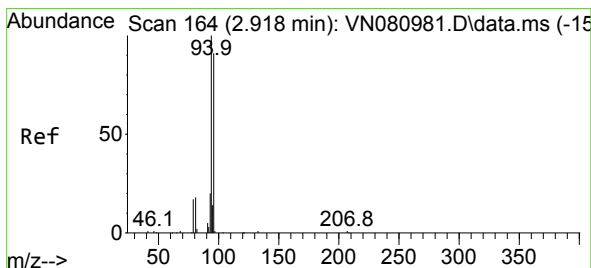
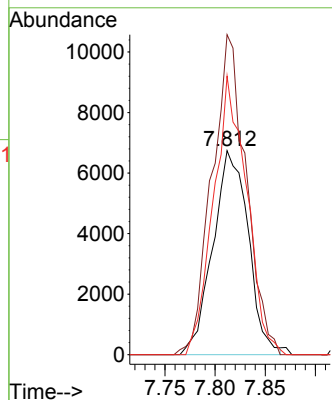
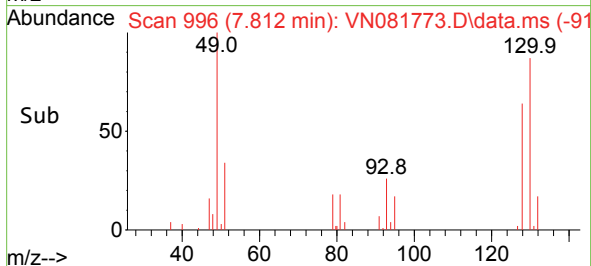


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.012 min
Lab File: VN081773.D
Acq: 17 Apr 2024 15:13

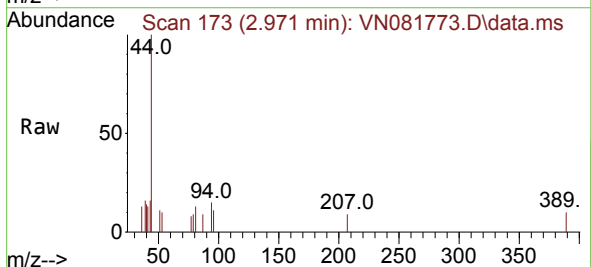
Instrument :
MSVOA_N
ClientSampleId :



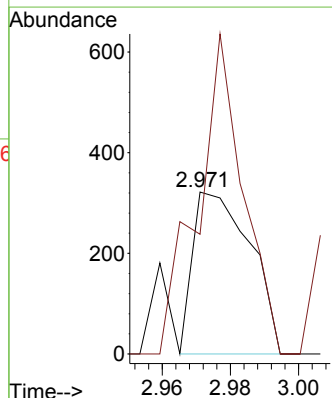
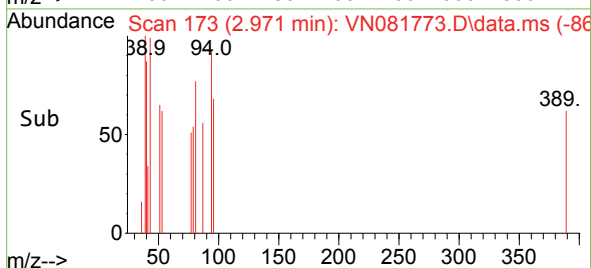
Tgt Ion:128 Resp: 16546
Ion Ratio Lower Upper
128 100
49 151.1 0.0 403.7
130 128.4 0.0 323.3

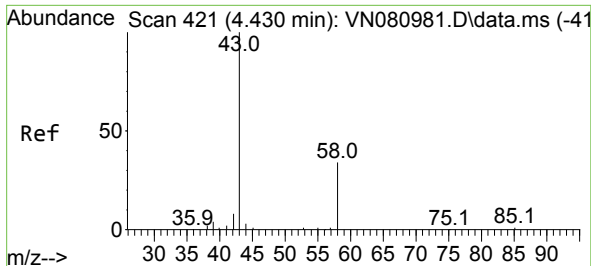


#5
Bromomethane
Concen: 0.217 ug/l
RT: 2.971 min Scan# 173
Delta R.T. 0.012 min
Lab File: VN081773.D
Acq: 17 Apr 2024 15:13



Tgt Ion: 94 Resp: 379
Ion Ratio Lower Upper
94 100
96 73.9 72.8 109.2

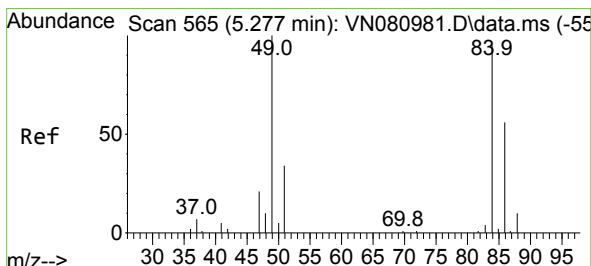
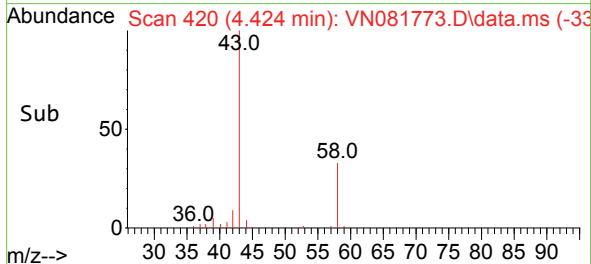
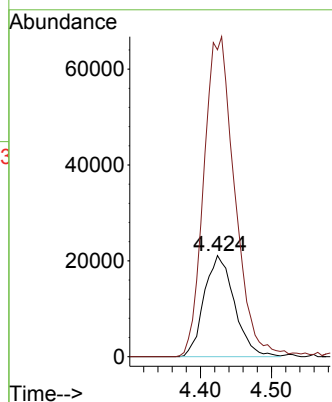
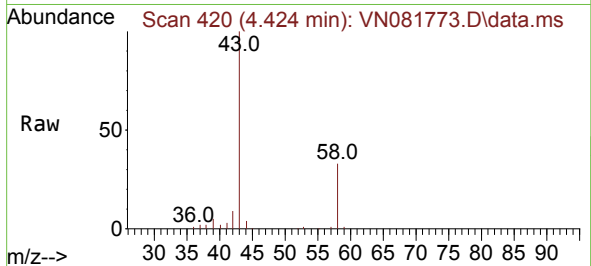




#15
Acetone
Concen: 291.222 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN081773.D
Acq: 17 Apr 2024 15:13

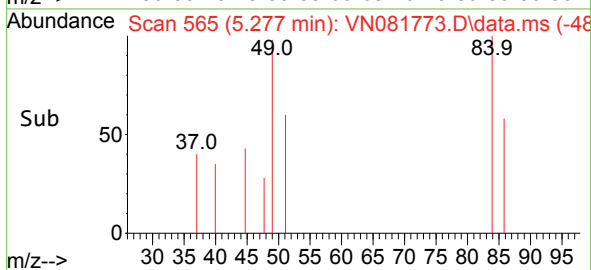
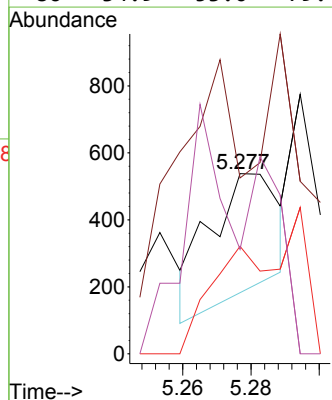
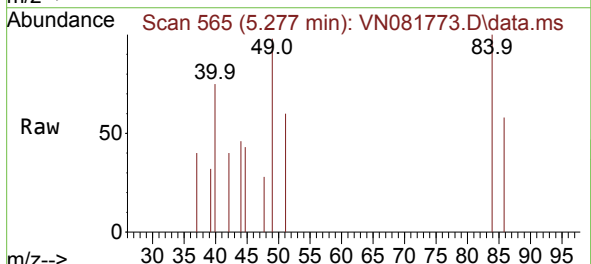
Instrument :
MSVOA_N
ClientSampleId :

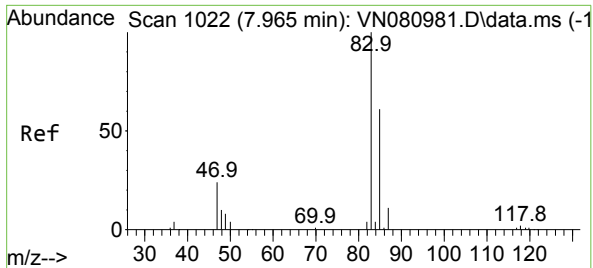
Tgt Ion: 58 Resp: 62378
Ion Ratio Lower Upper
58 100
43 302.3 223.1 334.7



#18
Methylene Chloride
Concen: 0.205 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.006 min
Lab File: VN081773.D
Acq: 17 Apr 2024 15:13

Tgt Ion: 84 Resp: 502
Ion Ratio Lower Upper
84 100
49 0.0 86.0 129.0#
51 111.1 30.0 45.0#
86 34.9 53.0 79.4#





#25

Chloroform

Concen: 0.952 ug/l

RT: 7.971 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN081773.D

Acq: 17 Apr 2024 15:13

Instrument :

MSVOA_N

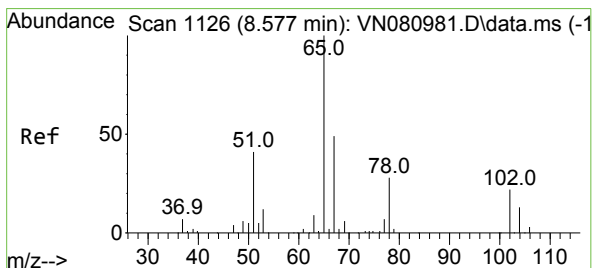
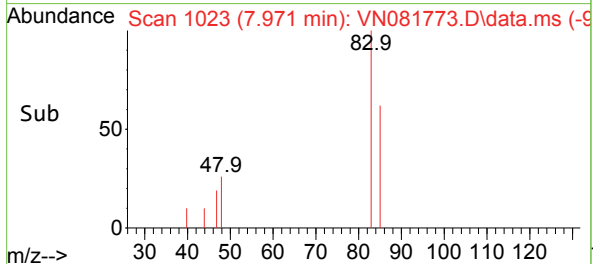
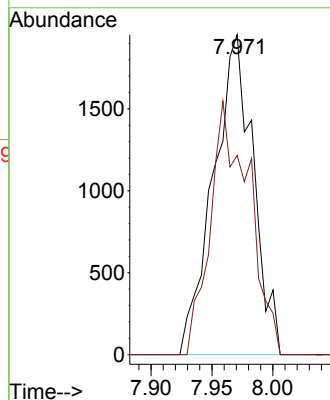
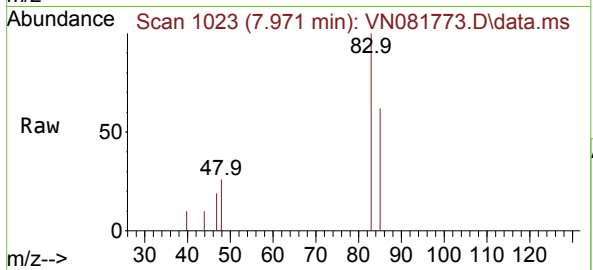
ClientSampleId :

Tgt Ion: 83 Resp: 4433

Ion Ratio Lower Upper

83 100

85 62.3 50.9 76.3



#27

1,2-Dichloroethane-d4

Concen: 27.762 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN081773.D

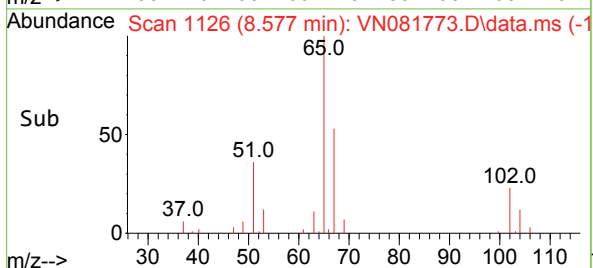
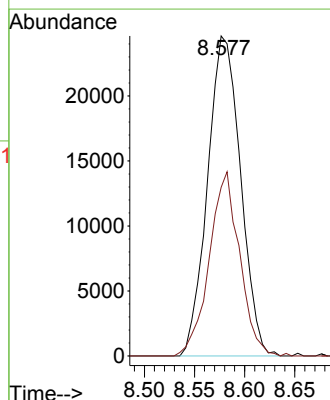
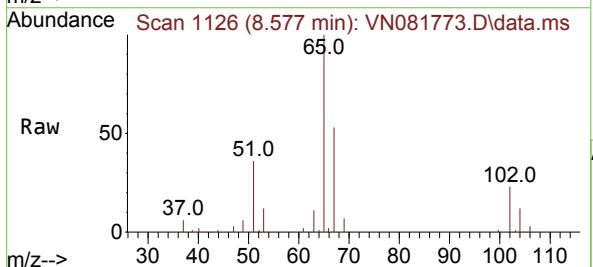
Acq: 17 Apr 2024 15:13

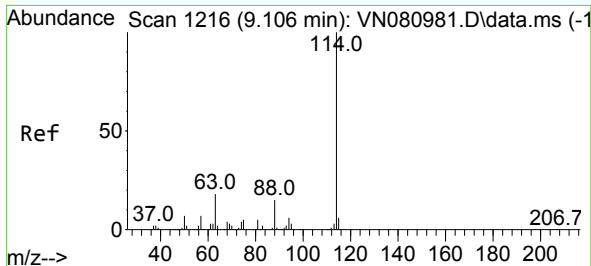
Tgt Ion: 65 Resp: 56430

Ion Ratio Lower Upper

65 100

67 52.9 43.2 64.8





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN081773.D

Acq: 17 Apr 2024 15:13

Instrument :

MSVOA_N

ClientSampleId :

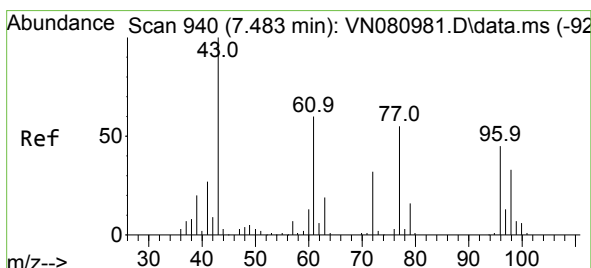
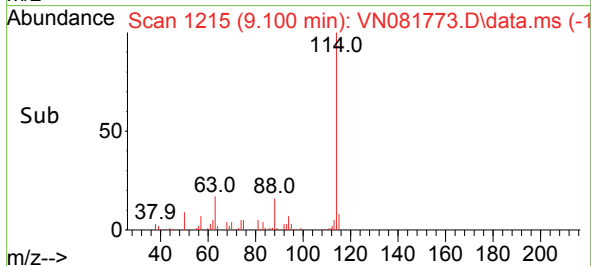
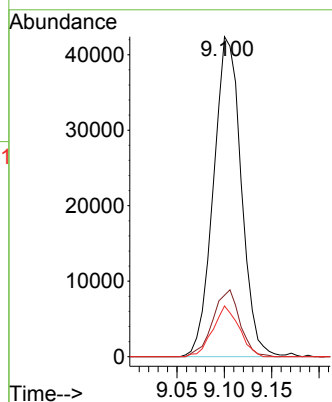
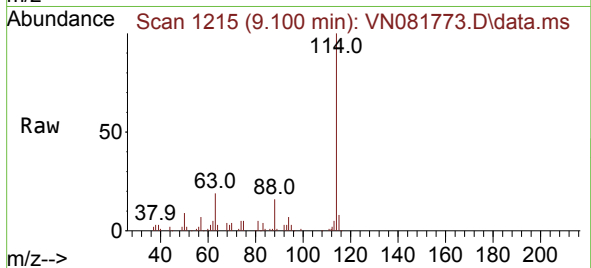
Tgt Ion:114 Resp: 86470

Ion Ratio Lower Upper

114 100

63 20.3 15.9 23.9

88 15.0 12.7 19.1



#30

2-Butanone

Concen: 0.205 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN081773.D

Acq: 17 Apr 2024 15:13

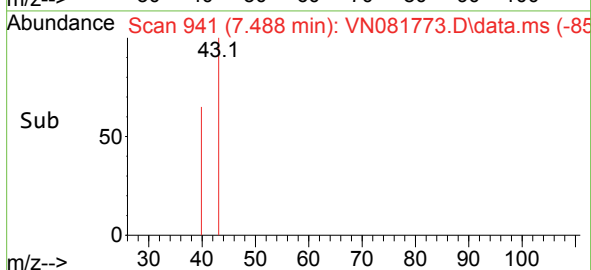
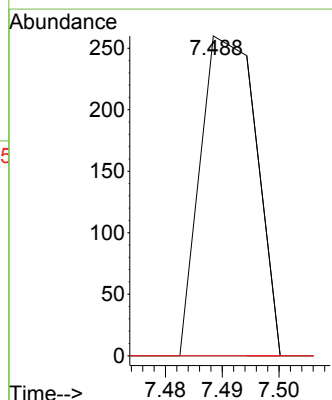
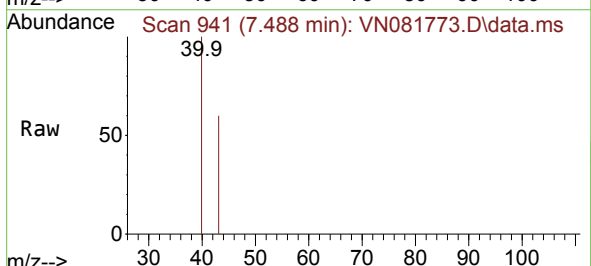
Tgt Ion: 43 Resp: 178

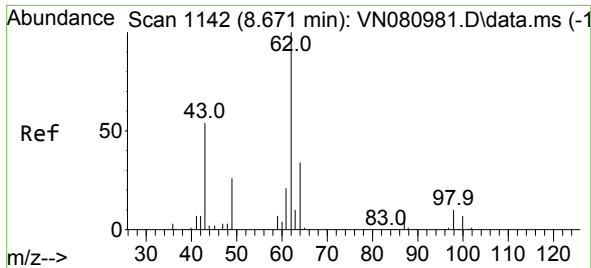
Ion Ratio Lower Upper

43 100

57 0.0 6.7 10.1#

72 0.0 24.0 36.0#

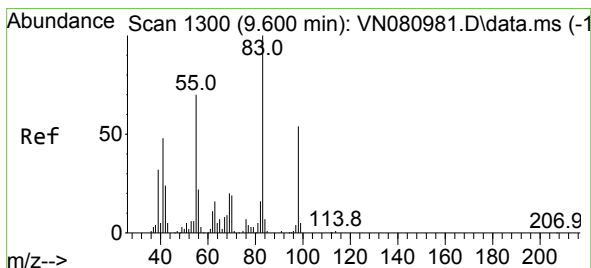
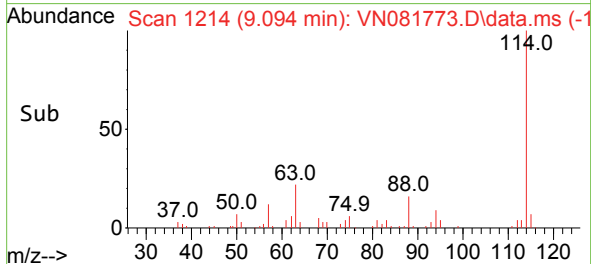
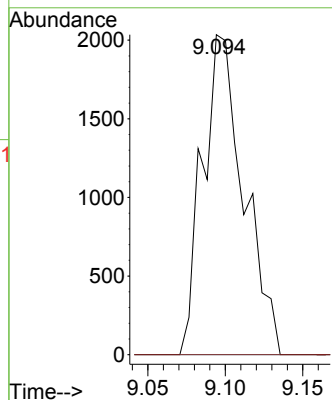
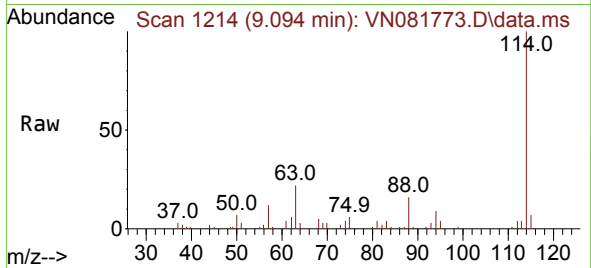




#36
1,2-Dichloroethane
Concen: 1.573 ug/l
RT: 9.094 min Scan# 1142
Delta R.T. 0.423 min
Lab File: VN081773.D
Acq: 17 Apr 2024 15:13

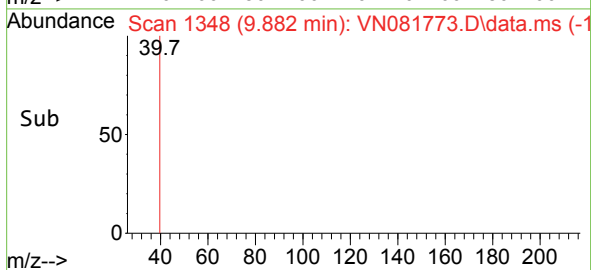
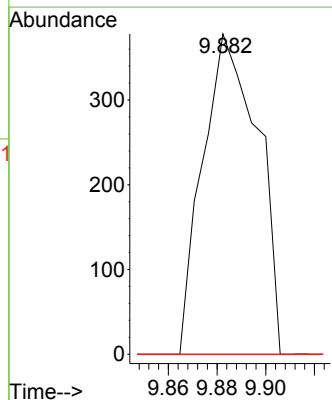
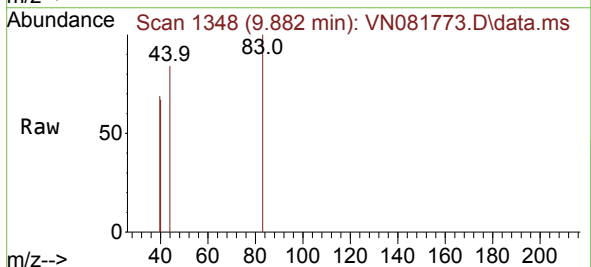
Instrument :
MSVOA_N
ClientSampleId :

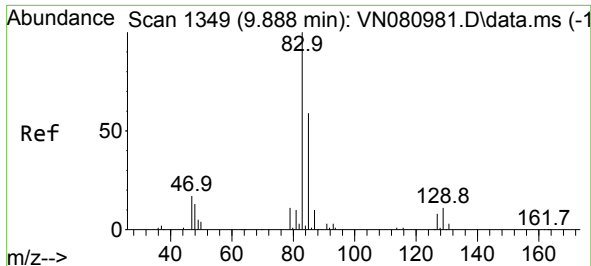
Tgt Ion: 62 Resp: 3778
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.4#



#38
Methylcyclohexane
Concen: 0.213 ug/l
RT: 9.882 min Scan# 1348
Delta R.T. 0.276 min
Lab File: VN081773.D
Acq: 17 Apr 2024 15:13

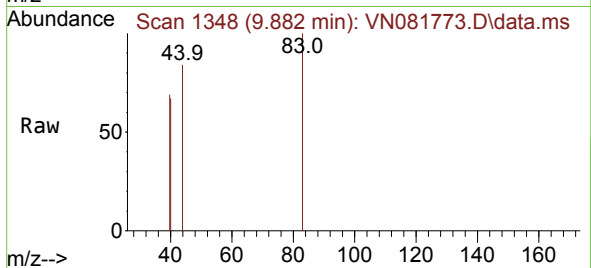
Tgt Ion: 83 Resp: 593
Ion Ratio Lower Upper
83 100
55 0.0 36.6 109.9#
98 0.0 23.8 71.5#



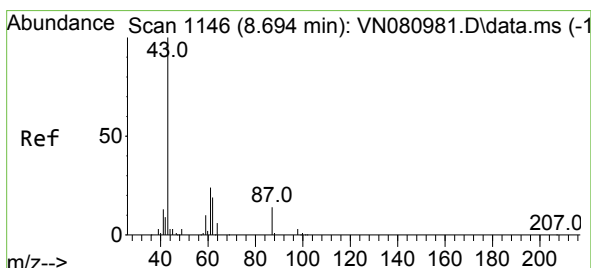
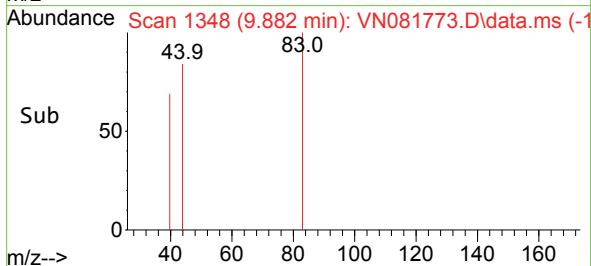
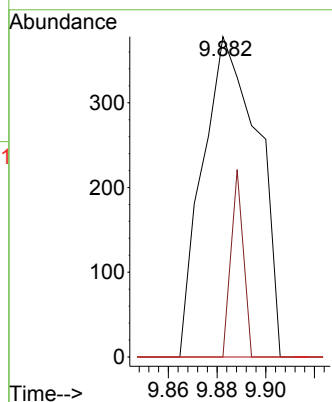


#41
Bromodichloromethane
Concen: 0.214 ug/l
RT: 9.882 min Scan# 1150
Delta R.T. -0.006 min
Lab File: VN081773.D
Acq: 17 Apr 2024 15:13

Instrument :
MSVOA_N
ClientSampleId :

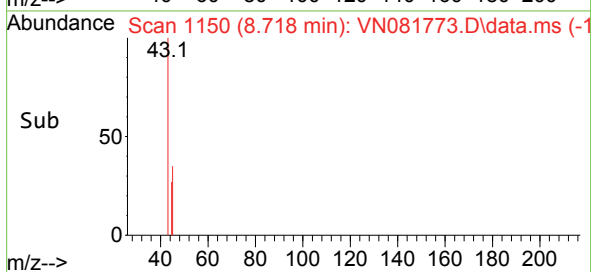
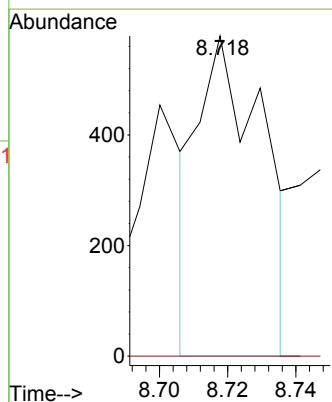
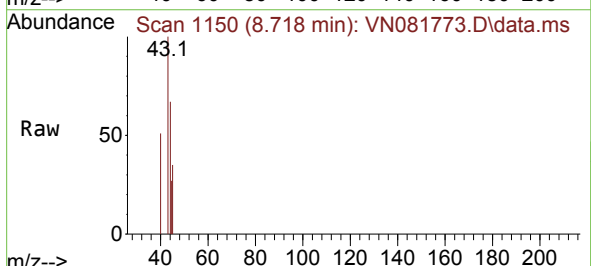


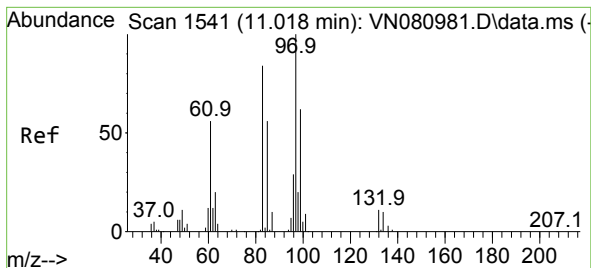
Tgt Ion: 83 Resp: 593
Ion Ratio Lower Upper
83 100
85 0.0 49.4 74.2#
127 0.0 7.3 10.9#



#44
Isopropyl Acetate
Concen: 0.239 ug/l
RT: 8.718 min Scan# 1150
Delta R.T. 0.029 min
Lab File: VN081773.D
Acq: 17 Apr 2024 15:13

Tgt Ion: 43 Resp: 767
Ion Ratio Lower Upper
43 100
61 0.0 25.0 37.4#





#50

1,1,2-Trichloroethane

Concen: 2.626 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.447 min

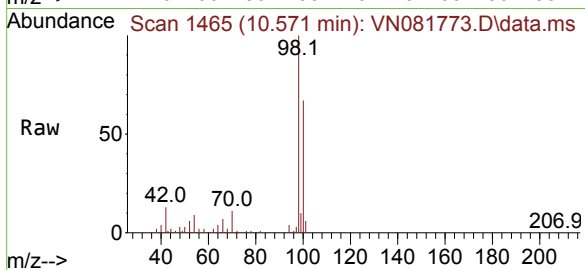
Lab File: VN081773.D

Acq: 17 Apr 2024 15:13

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 97 Resp: 4785

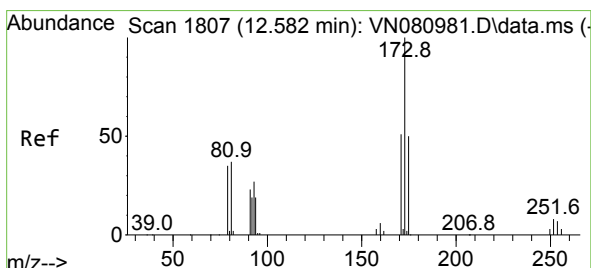
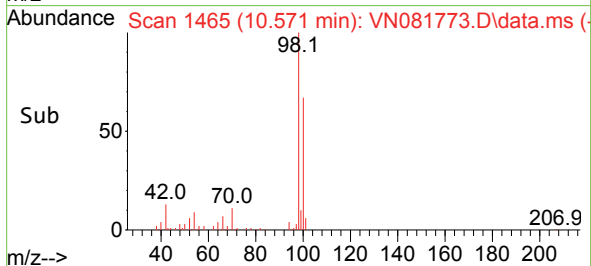
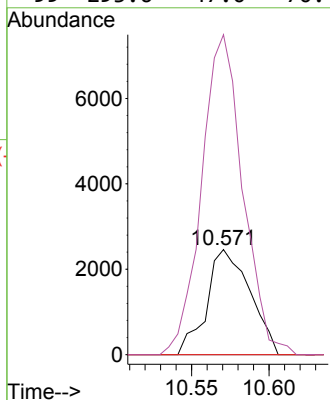
Ion Ratio Lower Upper

97 100

83 0.0 68.1 102.1#

85 0.0 41.8 62.6#

99 293.6 47.0 70.4#



#56

Bromoform

Concen: 0.522 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.271 min

Lab File: VN081773.D

Acq: 17 Apr 2024 15:13

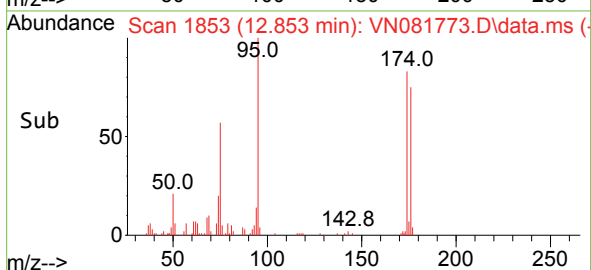
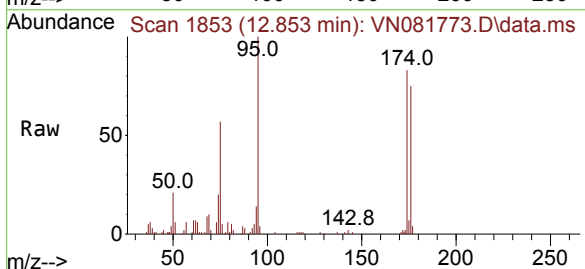
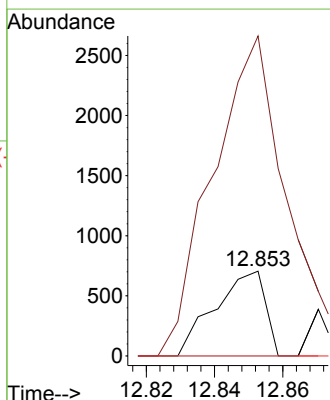
Tgt Ion:173 Resp: 727

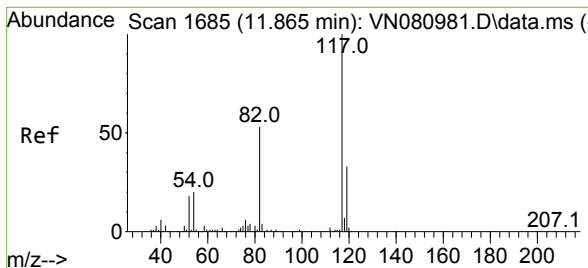
Ion Ratio Lower Upper

173 100

175 549.1 40.0 60.0#

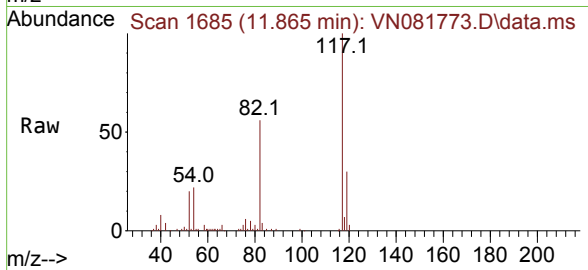
254 0.0 8.3 12.5#



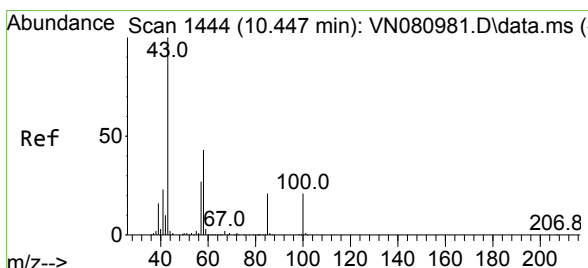
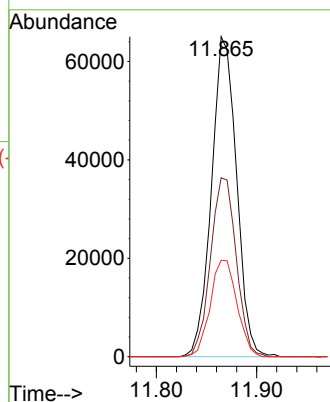
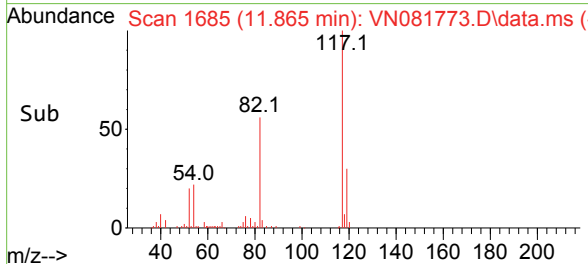


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN081773.D
Acq: 17 Apr 2024 15:13

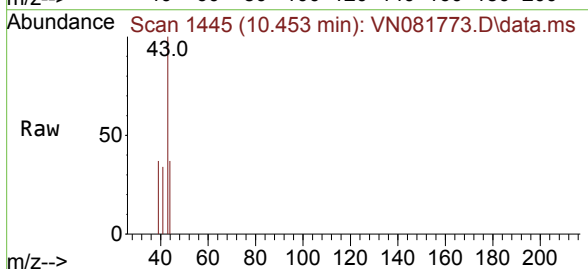
Instrument :
MSVOA_N
ClientSampleId :



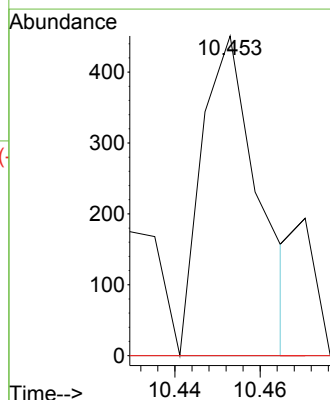
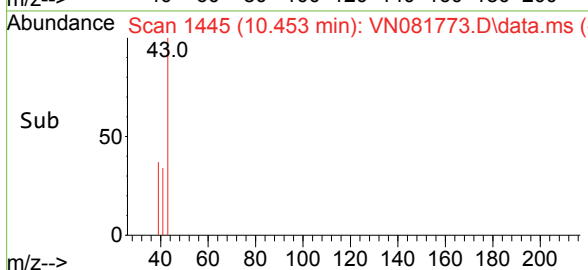
Tgt Ion:117 Resp: 112884
Ion Ratio Lower Upper
117 100
82 57.3 46.6 69.8
119 32.1 25.4 38.2

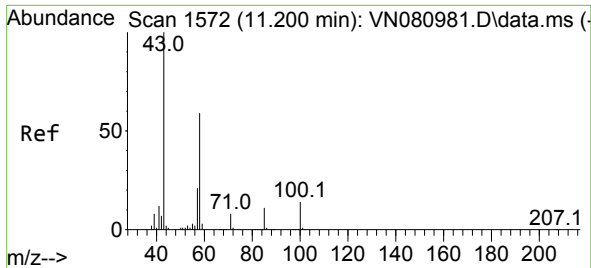


#58
4-Methyl-2-Pentanone
Concen: 0.215 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN081773.D
Acq: 17 Apr 2024 15:13



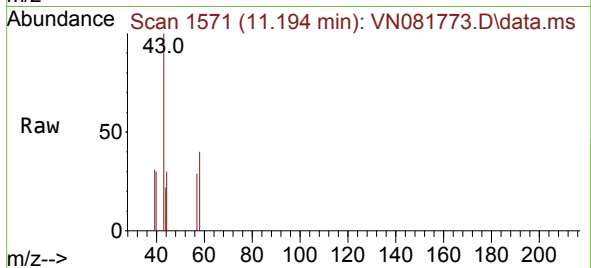
Tgt Ion: 43 Resp: 417
Ion Ratio Lower Upper
43 100
58 0.0 36.5 54.7#
85 0.0 19.5 29.3#



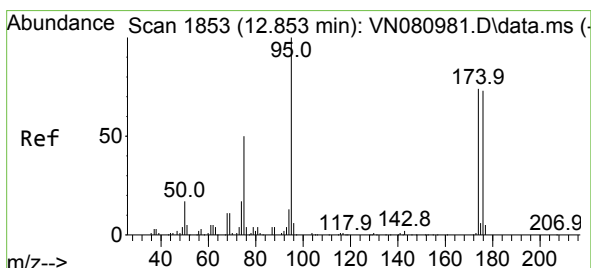
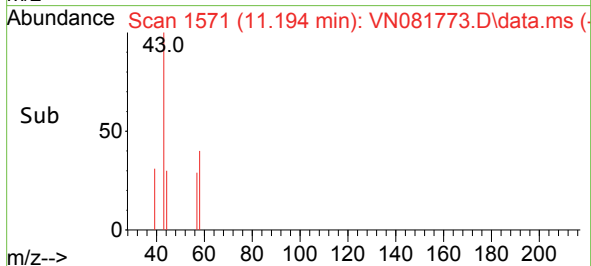
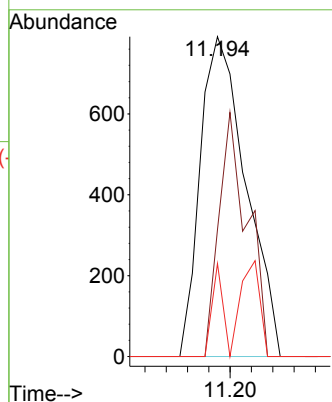


#59
2-Hexanone
Concen: 0.809 ug/l
RT: 11.194 min Scan# 1179
Delta R.T. -0.006 min
Lab File: VN081773.D
Acq: 17 Apr 2024 15:13

Instrument :
MSVOA_N
ClientSampleId :

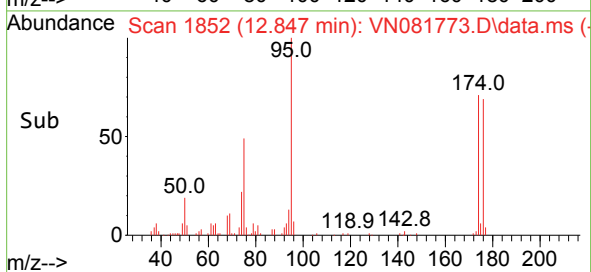
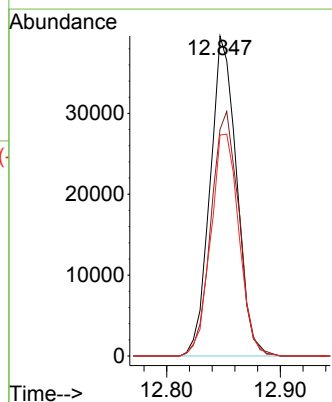
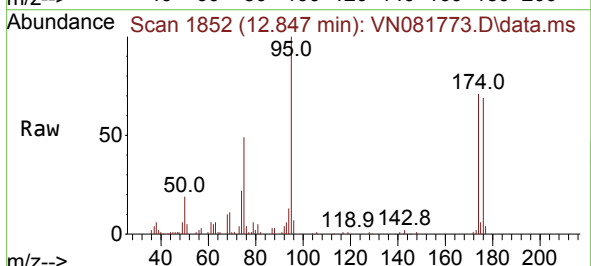


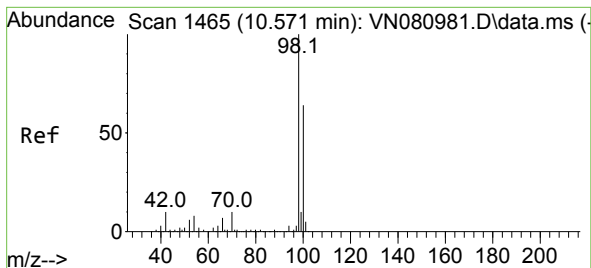
Tgt Ion	Ratio	Lower	Upper
43	100		
58	47.6	50.4	75.6#
57	6.9	18.6	27.8#



#60
4-Bromofluorobenzene
Concen: 28.843 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN081773.D
Acq: 17 Apr 2024 15:13

Tgt Ion	Ratio	Lower	Upper
95	100		
174	80.5	60.5	90.7
176	74.0	57.8	86.6





#63

Toluene-d8

Concen: 28.815 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN081773.D

Acq: 17 Apr 2024 15:13

Instrument :

MSVOA_N

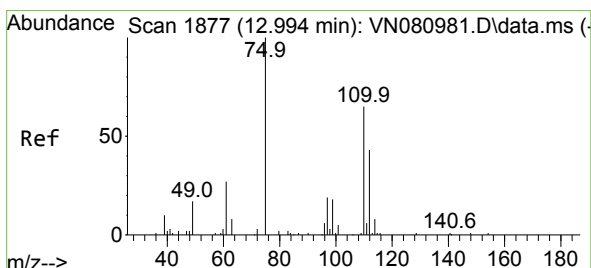
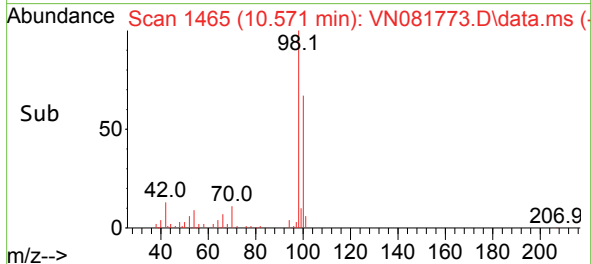
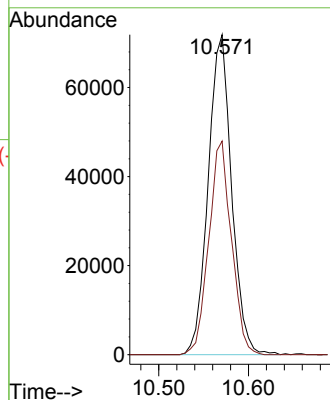
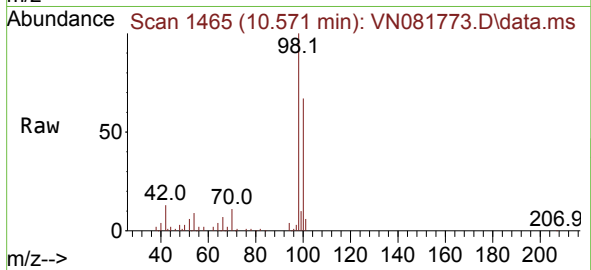
ClientSampleId :

Tgt Ion: 98 Resp: 130474

Ion Ratio Lower Upper

98 100

100 64.4 52.7 79.1



#72

1,2,3-Trichloropropane

Concen: 16.928 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN081773.D

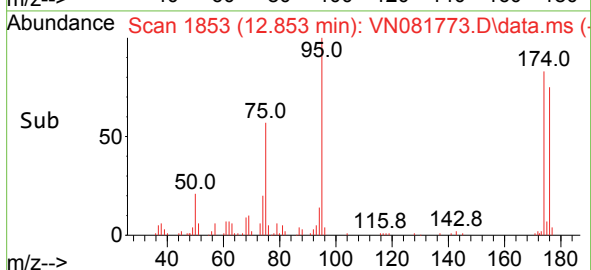
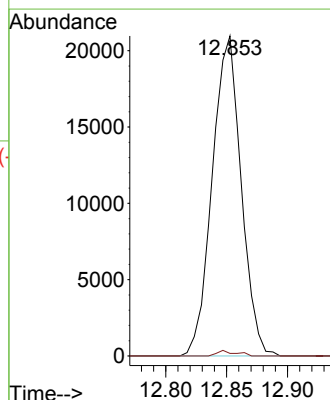
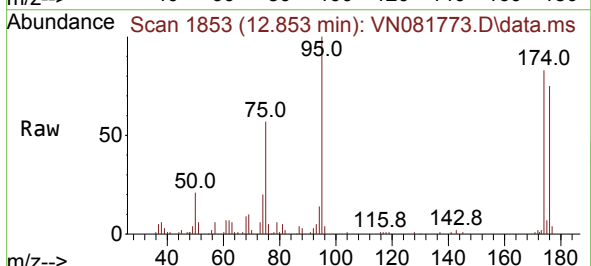
Acq: 17 Apr 2024 15:13

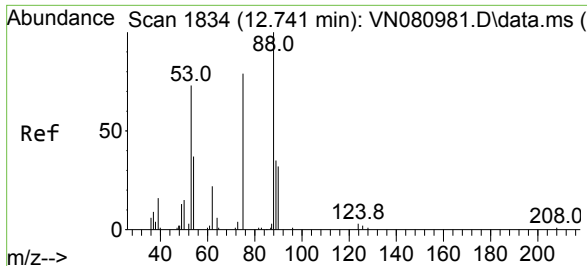
Tgt Ion: 75 Resp: 34678

Ion Ratio Lower Upper

75 100

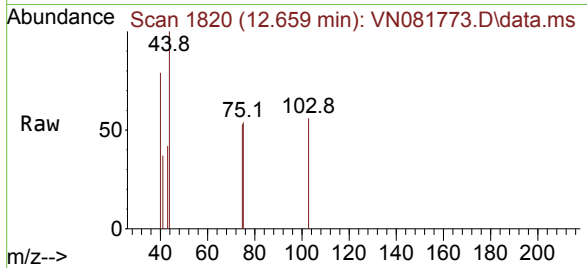
77 0.9 0.0 367.6



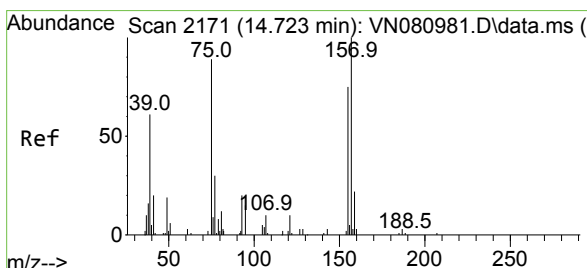
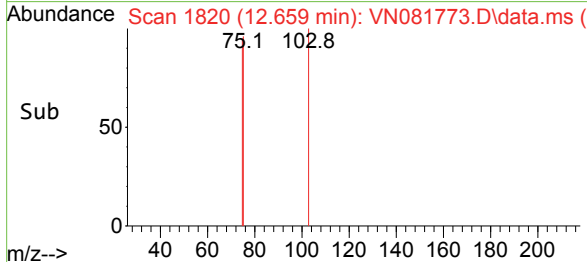
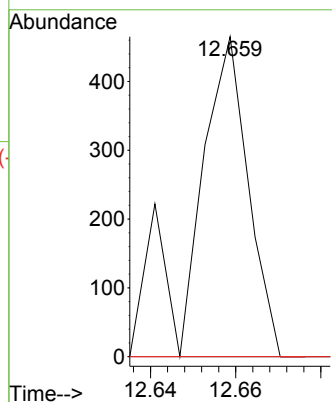


#77
 t-1,4-Dichloro-2-butene
 Concen: 0.394 ug/l
 RT: 12.659 min Scan# 11
 Delta R.T. -0.082 min
 Lab File: VN081773.D
 Acq: 17 Apr 2024 15:13

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 334
 Ion Ratio Lower Upper
 75 100
 53 0.0 45.9 137.7#
 89 0.0 25.9 77.7#



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.280 ug/l
 RT: 14.547 min Scan# 2141
 Delta R.T. -0.176 min
 Lab File: VN081773.D
 Acq: 17 Apr 2024 15:13

Tgt Ion: 75 Resp: 135
 Ion Ratio Lower Upper
 75 100
 155 0.0 61.7 92.5#
 157 0.0 83.6 125.4#

