

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101723\
 Data File : VN079585.D
 Acq On : 17 Oct 2023 16:45
 Operator : JC\MD
 Sample : 04894-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 18 02:32:11 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)

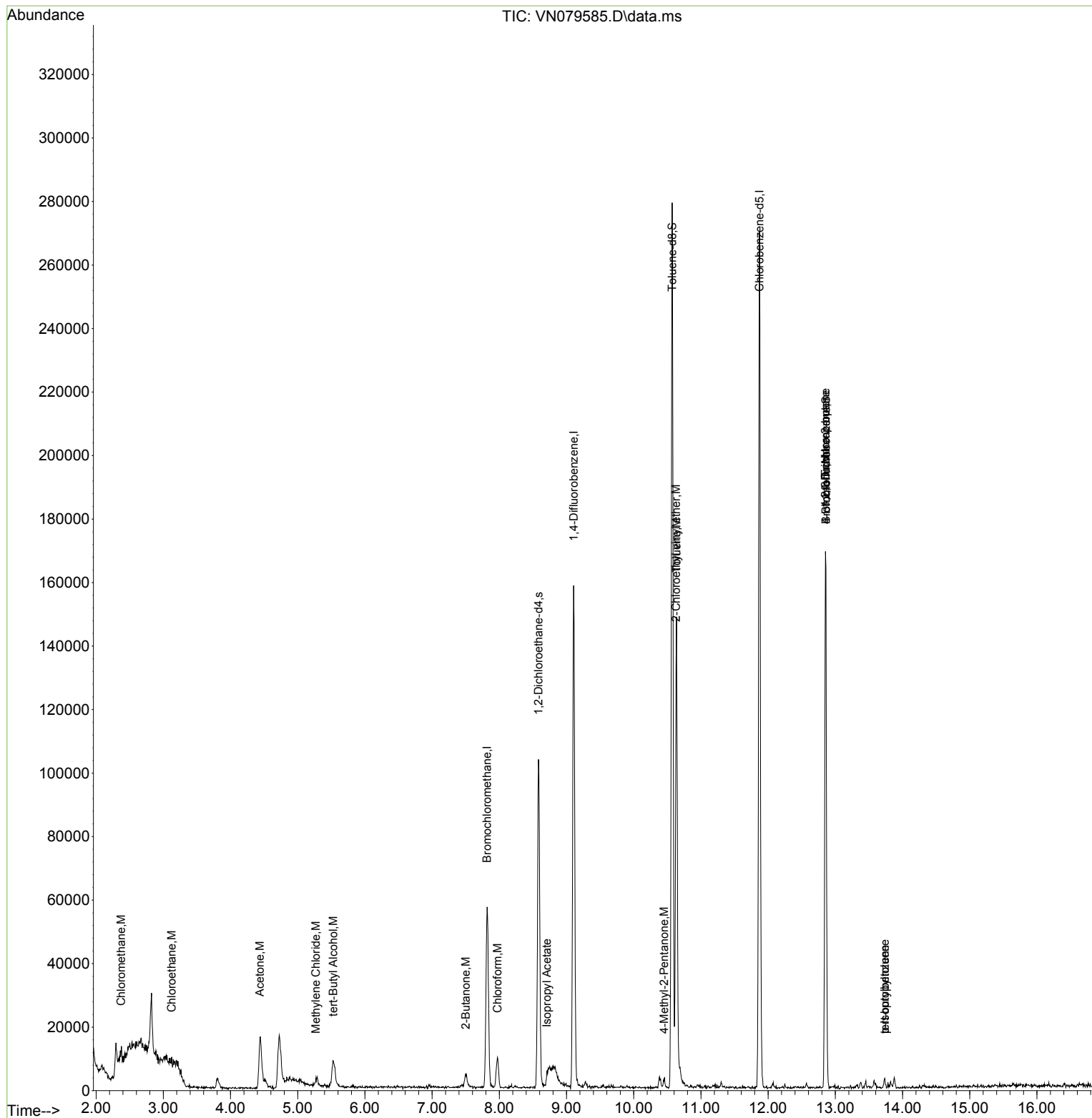
Internal Standards						
1) Bromochloromethane	7.818	128	19187	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	129697	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	151664	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	84841	31.100	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.667%
60) 4-Bromofluorobenzene	12.859	95	56878	20.508	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	68.367%
63) Toluene-d8	10.571	98	188786	29.049	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.833%
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	839	0.233	ug/l	95
6) Chloroethane	3.124	64	761	0.278	ug/l #	83
15) Acetone	4.436	58	9177	19.410	ug/l	90
18) Methylene Chloride	5.271	84	1151	0.362	ug/l #	59
23) tert-Butyl Alcohol	5.530	59	8084	16.198	ug/l #	100
25) Chloroform	7.971	83	9205	1.586	ug/l	86
30) 2-Butanone	7.500	43	7267	3.825	ug/l #	86
44) Isopropyl Acetate	8.706	43	1901	0.299	ug/l	91
55) 2-Chloroethyl vinyl ether	10.630	63	5654	3.882	ug/l #	1
56) Bromoform	12.859	173	716	0.383	ug/l #	1
58) 4-Methyl-2-Pentanone	10.453	43	2391	0.676	ug/l #	66
62) Toluene	10.635	91	106059	9.150	ug/l	97
72) 1,2,3-Trichloropropane	12.853	75	32142	9.185	ug/l	1
77) t-1,4-Dichloro-2-butene	12.853	75	32142	30.096	ug/l #	7
79) tert-butylbenzene	13.735	119	1784	0.250	ug/l	32
82) p-Isopropyltoluene	13.735	119	1784	0.225	ug/l	63

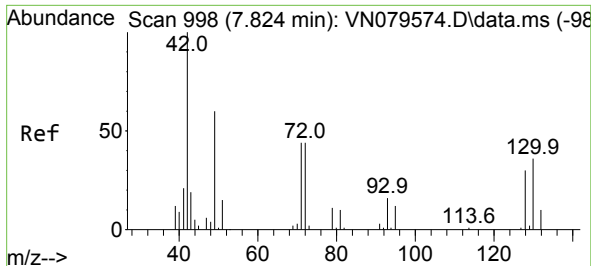
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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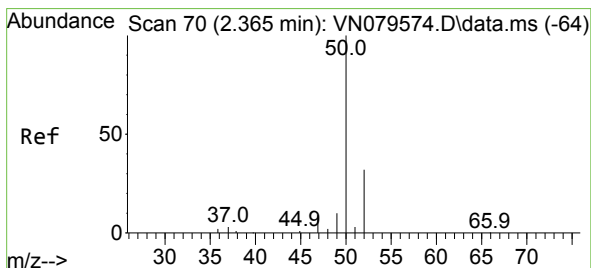
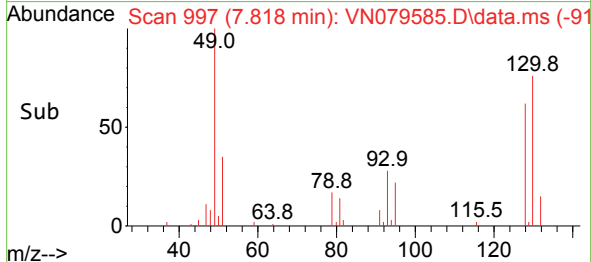
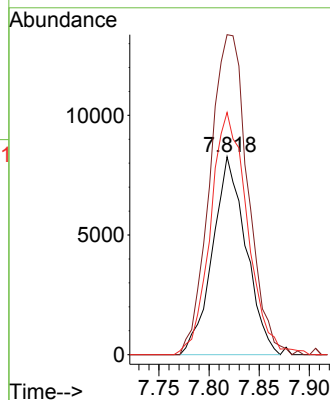
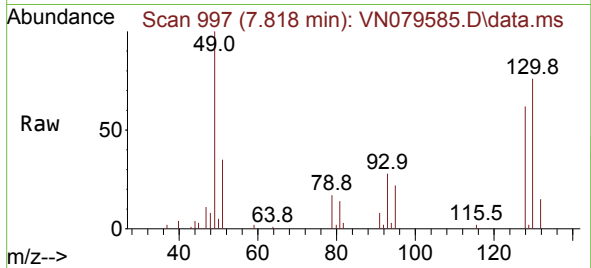




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN079585.D
Acq: 17 Oct 2023 16:45

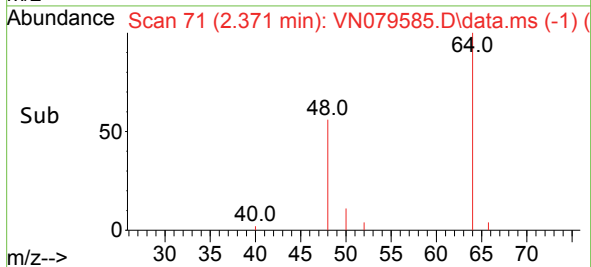
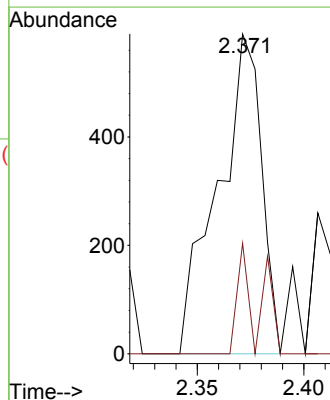
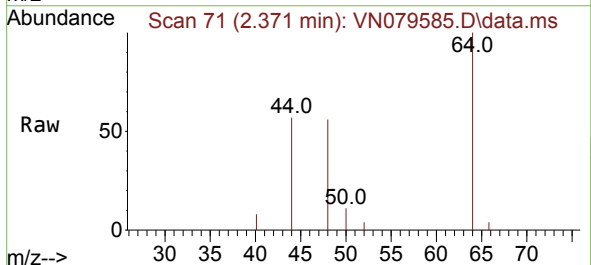
Instrument :
MSVOA_N
ClientSampleId :

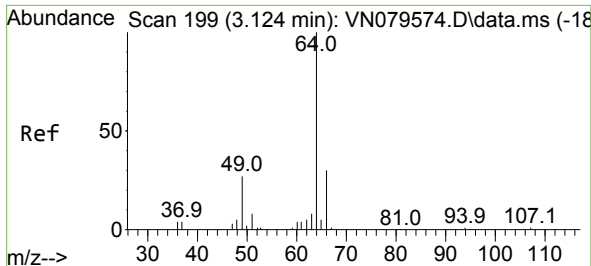
Tgt Ion:128 Resp: 19187
Ion Ratio Lower Upper
128 100
49 183.6 0.0 468.5
130 134.0 0.0 320.7



#3
Chloromethane
Concen: 0.233 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN079585.D
Acq: 17 Oct 2023 16:45

Tgt Ion: 50 Resp: 839
Ion Ratio Lower Upper
50 100
52 34.6 25.6 38.4

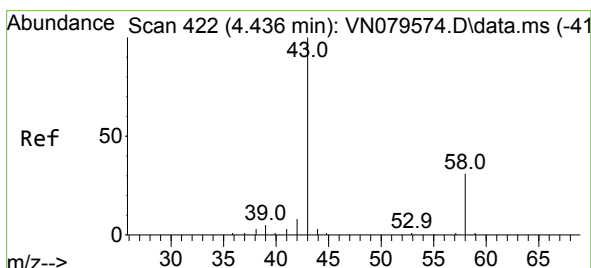
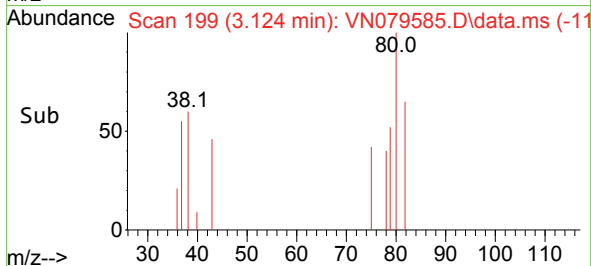
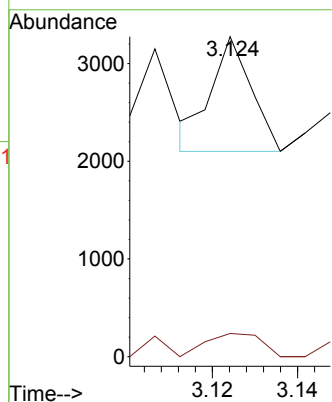
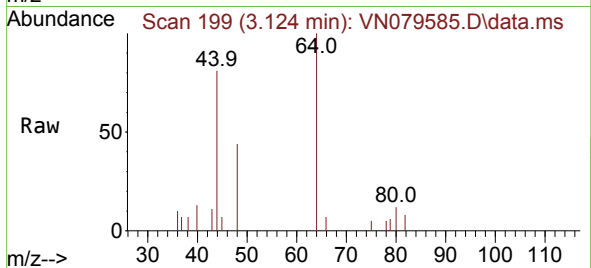




#6
Chloroethane
Concen: 0.278 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.000 min
Lab File: VN079585.D
Acq: 17 Oct 2023 16:45

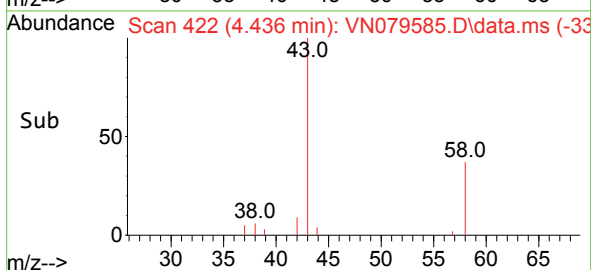
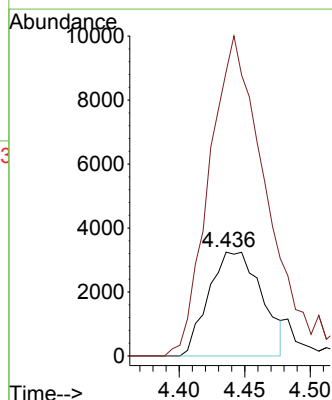
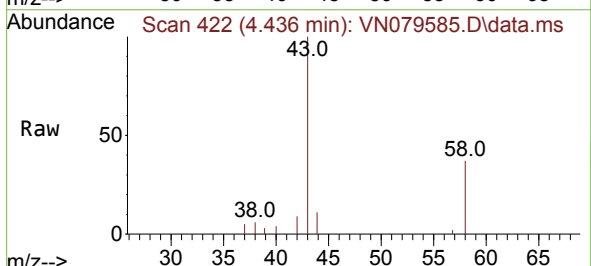
Instrument :
MSVOA_N
ClientSampleId :

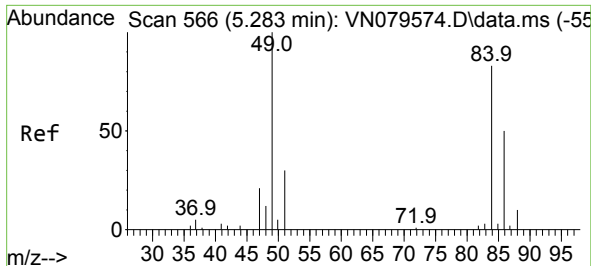
Tgt Ion: 64 Resp: 761
Ion Ratio Lower Upper
64 100
66 20.2 23.3 34.9#



#15
Acetone
Concen: 19.410 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.000 min
Lab File: VN079585.D
Acq: 17 Oct 2023 16:45

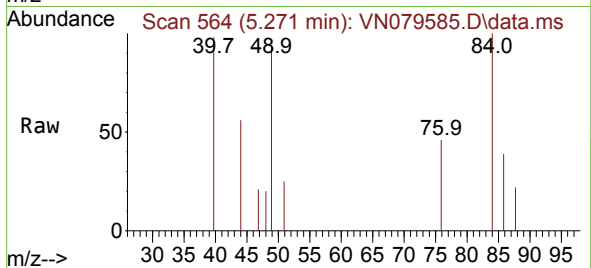
Tgt Ion: 58 Resp: 9177
Ion Ratio Lower Upper
58 100
43 263.3 225.2 337.8





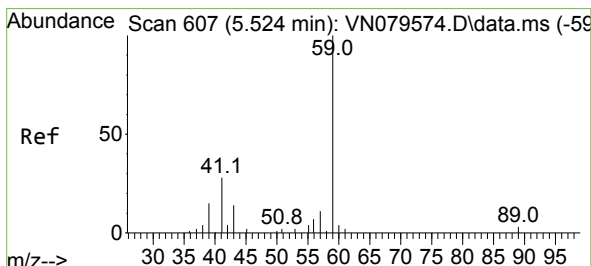
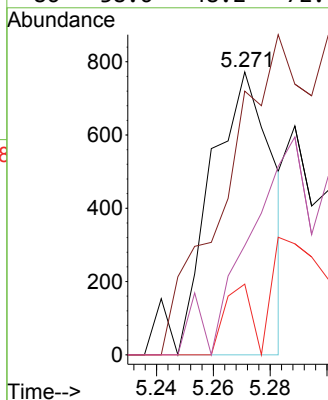
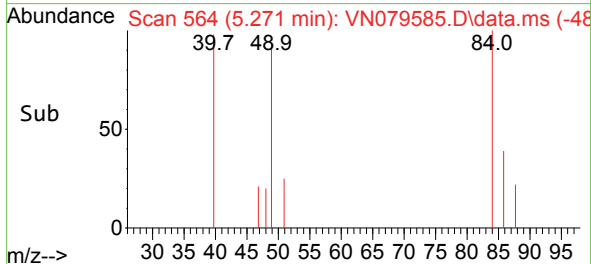
#18
Methylene Chloride
Concen: 0.362 ug/l
RT: 5.271 min Scan# 511
Delta R.T. -0.012 min
Lab File: VN079585.D
Acq: 17 Oct 2023 16:45

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 1151

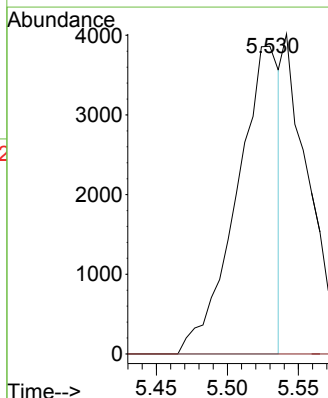
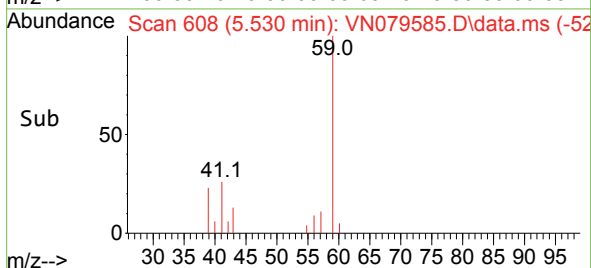
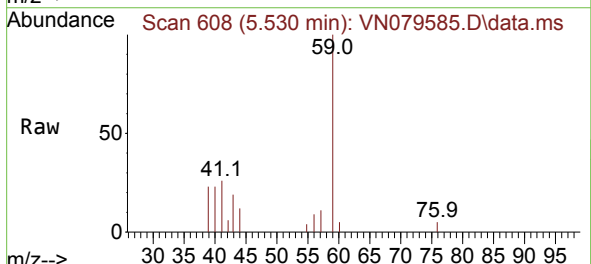
Ion	Ratio	Lower	Upper
84	100		
49	65.7	100.9	151.3#
51	25.0	29.4	44.2#
86	38.6	48.2	72.4#

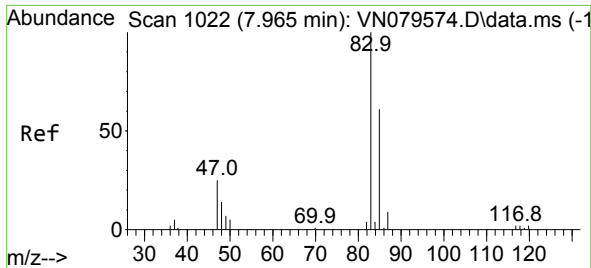


#23
tert-Butyl Alcohol
Concen: 16.198 ug/l
RT: 5.530 min Scan# 608
Delta R.T. 0.006 min
Lab File: VN079585.D
Acq: 17 Oct 2023 16:45

Tgt Ion: 59 Resp: 8084

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

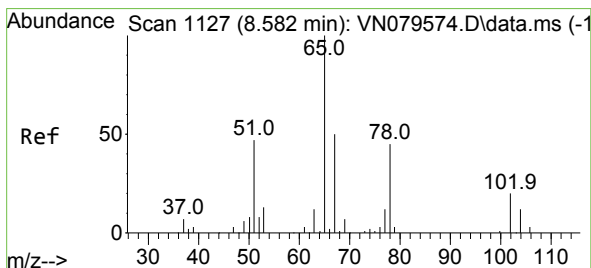
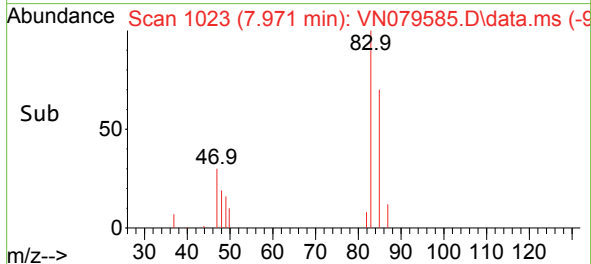
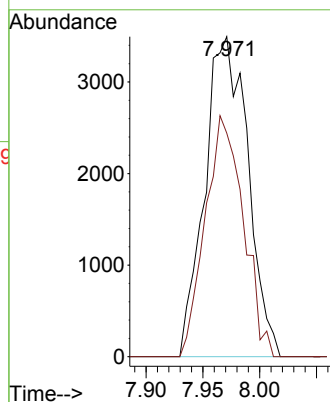
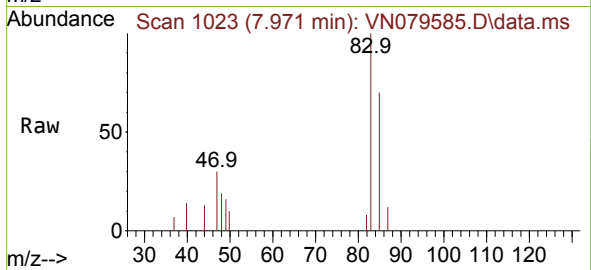




#25
Chloroform
Concen: 1.586 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.006 min
Lab File: VN079585.D
Acq: 17 Oct 2023 16:45

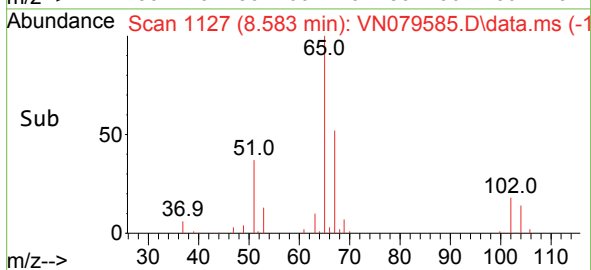
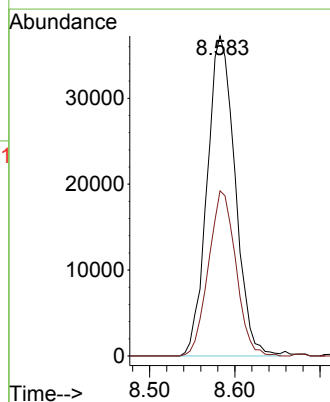
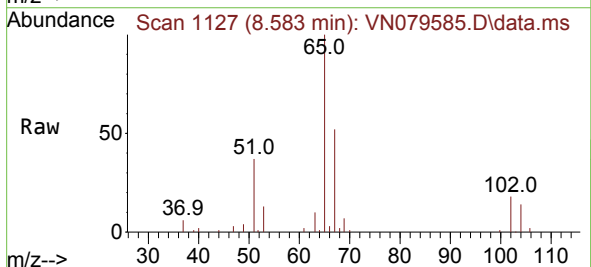
Instrument :
MSVOA_N
ClientSampleId :

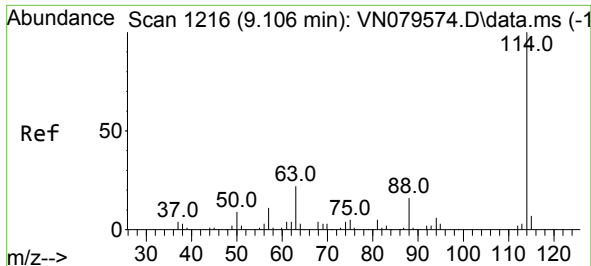
Tgt Ion: 83 Resp: 9205
Ion Ratio Lower Upper
83 100
85 69.8 47.4 71.2



#27
1,2-Dichloroethane-d4
Concen: 31.100 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN079585.D
Acq: 17 Oct 2023 16:45

Tgt Ion: 65 Resp: 84841
Ion Ratio Lower Upper
65 100
67 50.5 42.1 63.1





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 114

Delta R.T. 0.000 min

Lab File: VN079585.D

Acq: 17 Oct 2023 16:45

Instrument :

MSVOA_N

ClientSampleId :

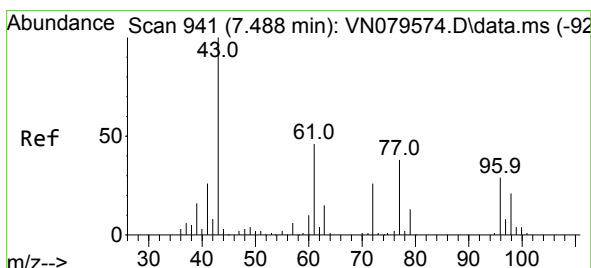
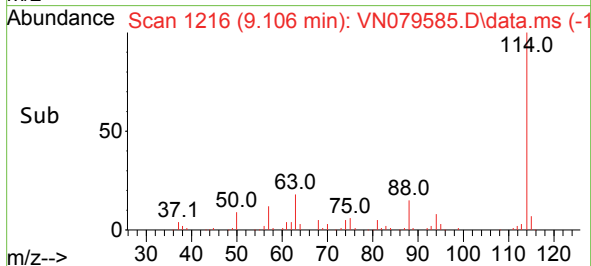
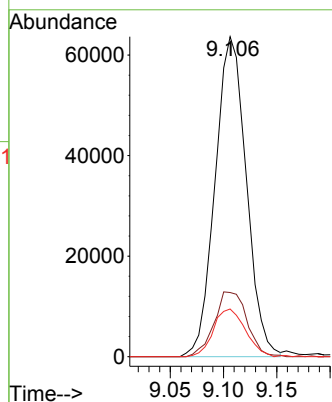
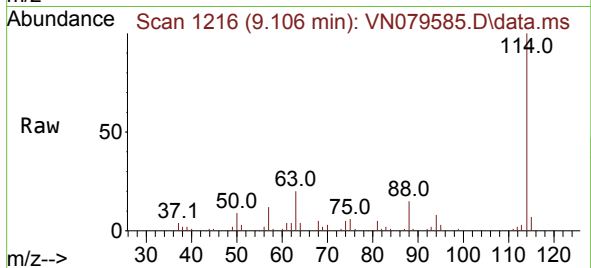
Tgt Ion:114 Resp: 129697

Ion Ratio Lower Upper

114 100

63 21.3 18.1 27.1

88 15.2 12.2 18.2



#30

2-Butanone

Concen: 3.825 ug/l

RT: 7.500 min Scan# 943

Delta R.T. 0.012 min

Lab File: VN079585.D

Acq: 17 Oct 2023 16:45

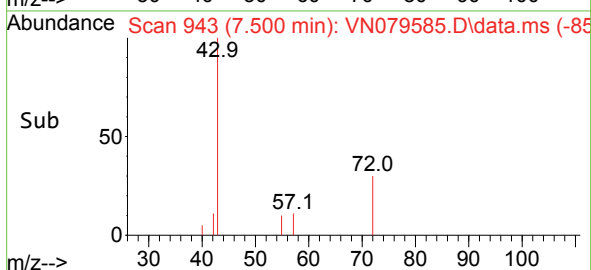
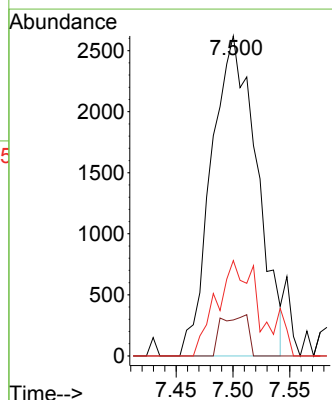
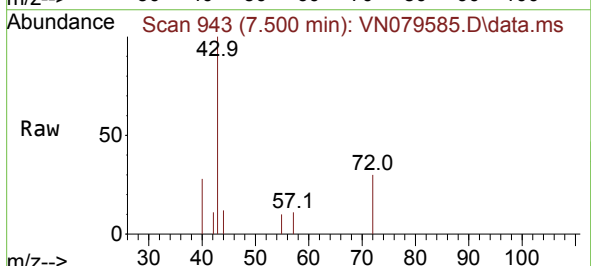
Tgt Ion: 43 Resp: 7267

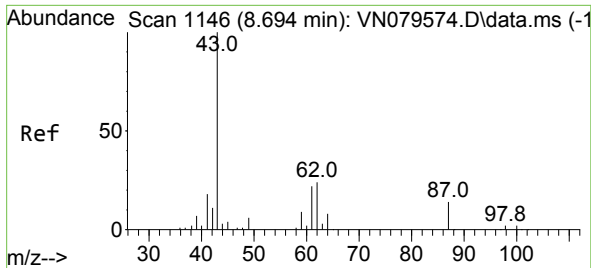
Ion Ratio Lower Upper

43 100

57 2.9 6.4 9.6#

72 19.1 20.7 31.1#

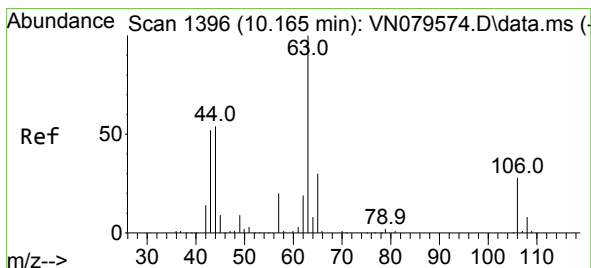
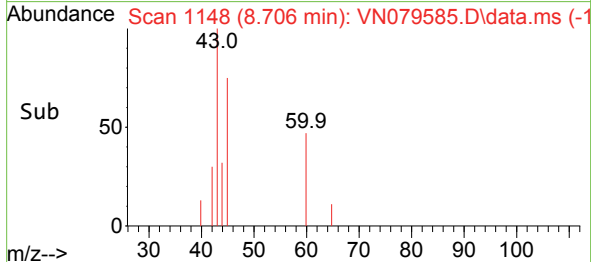
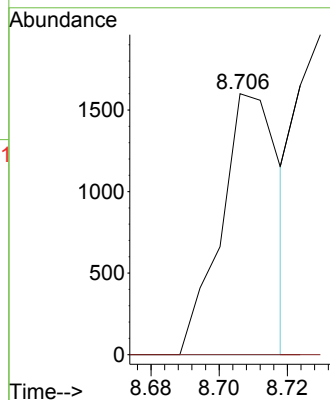
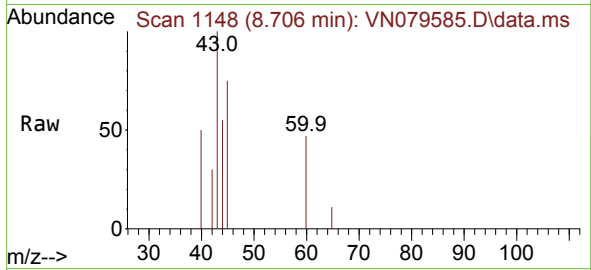




#44
Isopropyl Acetate
Concen: 0.299 ug/l
RT: 8.706 min Scan# 1148
Delta R.T. 0.012 min
Lab File: VN079585.D
Acq: 17 Oct 2023 16:45

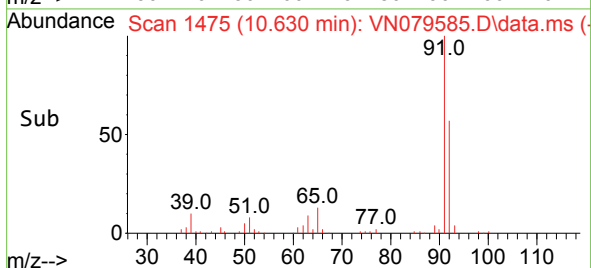
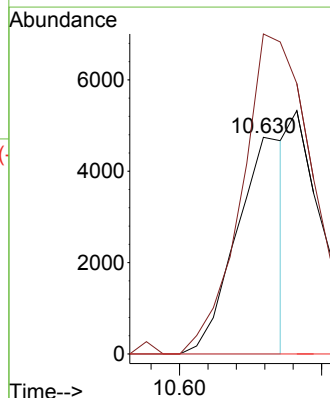
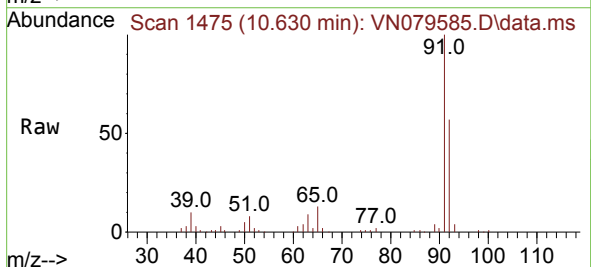
Instrument :
MSVOA_N
ClientSampleId :

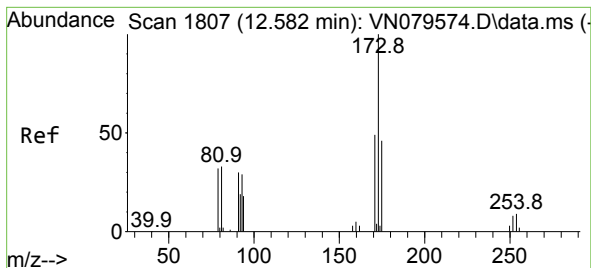
Tgt Ion: 43 Resp: 1901
Ion Ratio Lower Upper
43 100
61 30.2 20.3 30.5



#55
2-Chloroethyl vinyl ether
Concen: 3.882 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.465 min
Lab File: VN079585.D
Acq: 17 Oct 2023 16:45

Tgt Ion: 63 Resp: 5654
Ion Ratio Lower Upper
63 100
65 171.4 25.9 38.9#
106 0.0 20.6 30.8#





#56

Bromoform

Concen: 0.383 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. 0.277 min

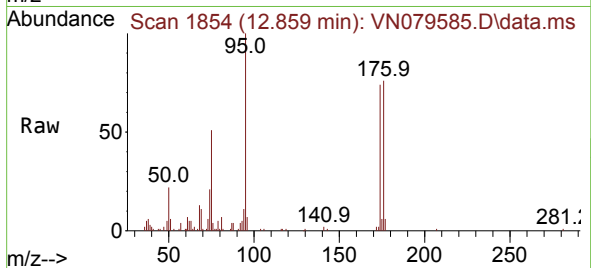
Lab File: VN079585.D

Acq: 17 Oct 2023 16:45

Instrument :

MSVOA_N

ClientSampleId :



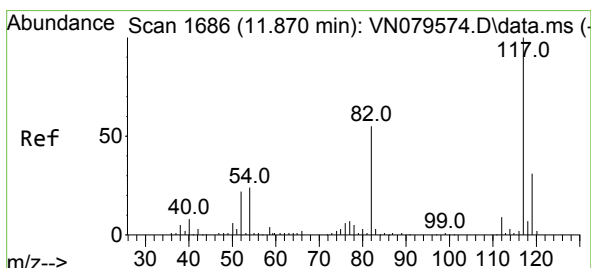
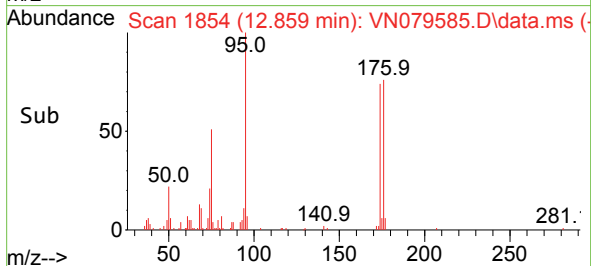
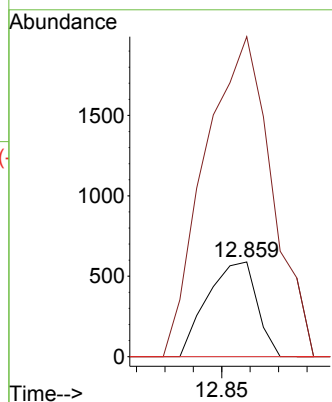
Tgt Ion:173 Resp: 716

Ion Ratio Lower Upper

173 100

175 455.2 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: VN079585.D

Acq: 17 Oct 2023 16:45

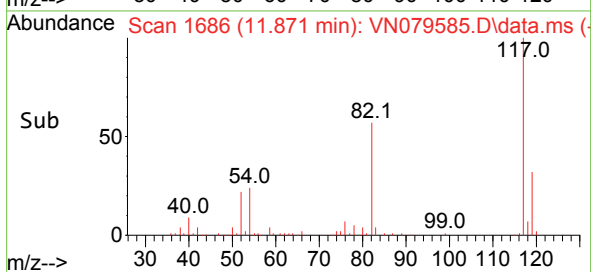
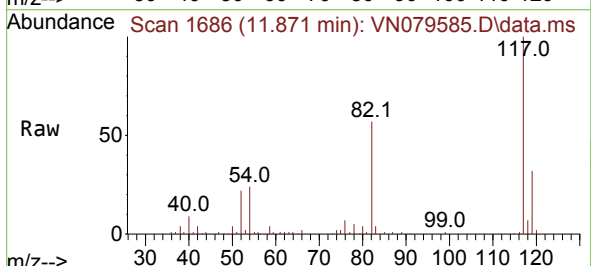
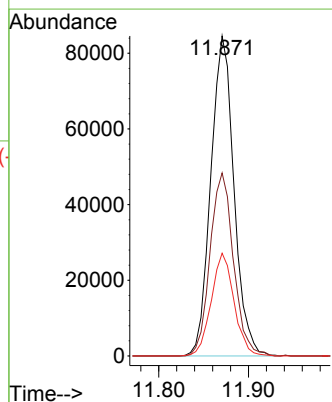
Tgt Ion:117 Resp: 151664

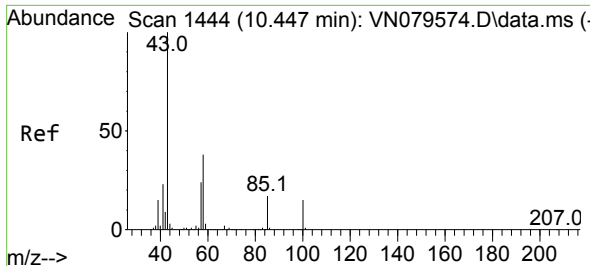
Ion Ratio Lower Upper

117 100

82 57.9 46.2 69.2

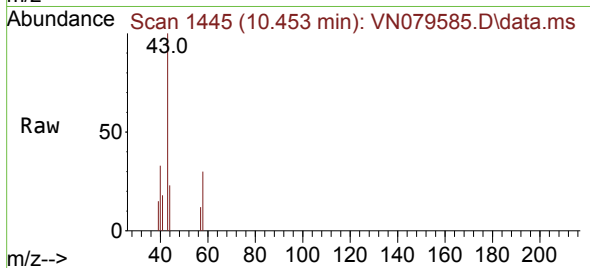
119 31.7 25.2 37.8



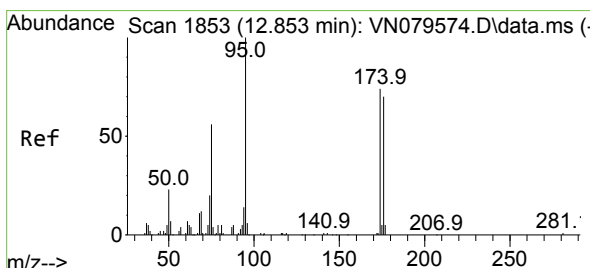
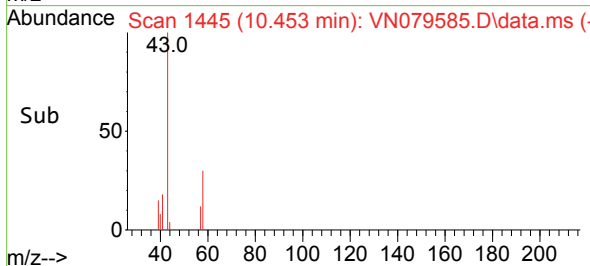
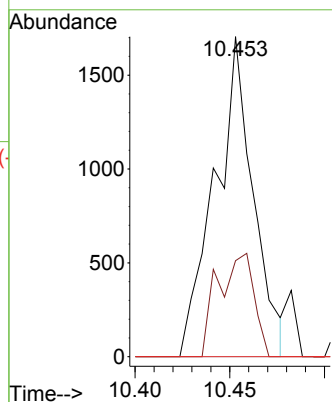


#58
4-Methyl-2-Pentanone
Concen: 0.676 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN079585.D
Acq: 17 Oct 2023 16:45

Instrument :
MSVOA_N
ClientSampleId :

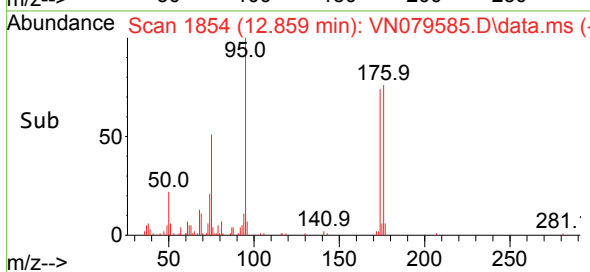
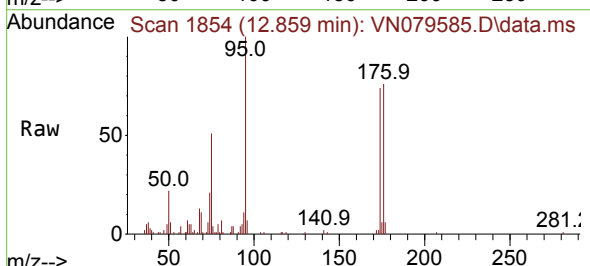
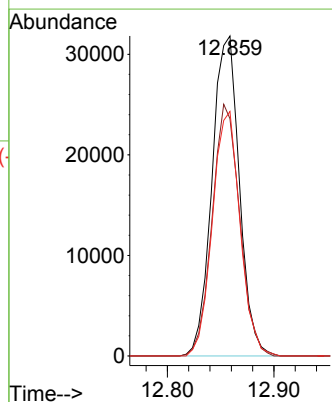


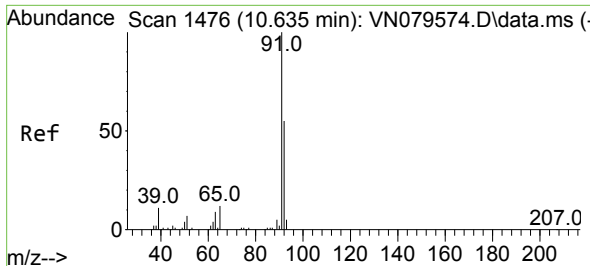
Tgt Ion: 43 Resp: 2391
Ion Ratio Lower Upper
43 100
58 18.9 30.4 45.6#
85 0.0 13.2 19.8#



#60
4-Bromofluorobenzene
Concen: 20.508 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN079585.D
Acq: 17 Oct 2023 16:45

Tgt Ion: 95 Resp: 56878
Ion Ratio Lower Upper
95 100
174 79.0 60.5 90.7
176 77.0 57.2 85.8

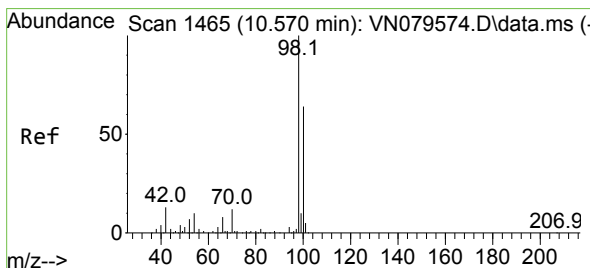
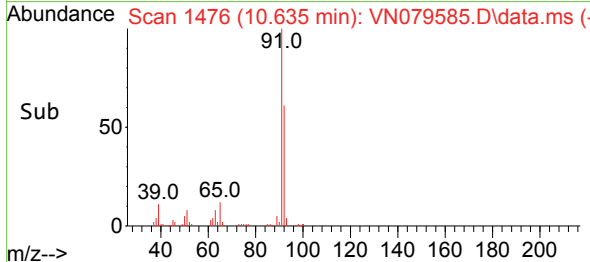
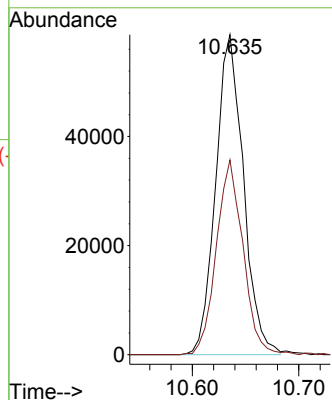
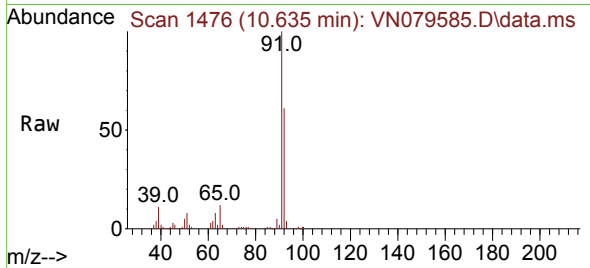




#62
Toluene
Concen: 9.150 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN079585.D
Acq: 17 Oct 2023 16:45

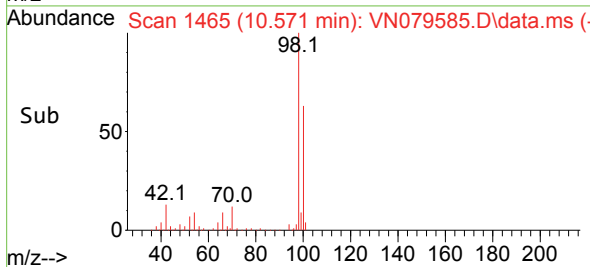
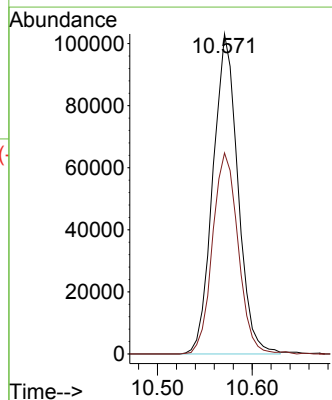
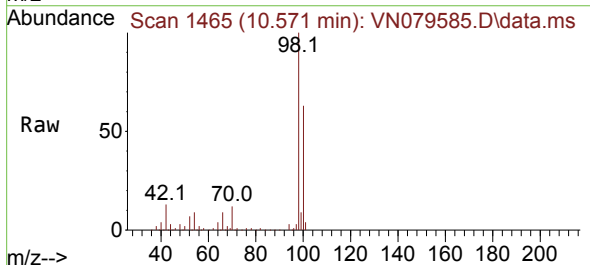
Instrument :
MSVOA_N
ClientSampleId :

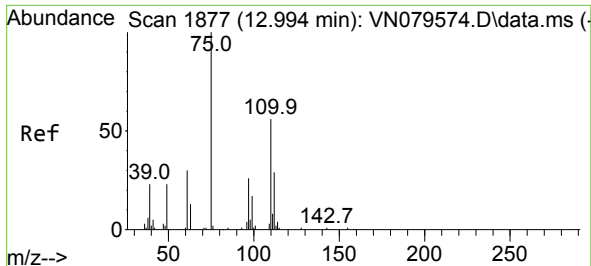
Tgt Ion: 91 Resp: 106059
Ion Ratio Lower Upper
91 100
92 58.6 45.3 67.9



#63
Toluene-d8
Concen: 29.049 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079585.D
Acq: 17 Oct 2023 16:45

Tgt Ion: 98 Resp: 188786
Ion Ratio Lower Upper
98 100
100 64.1 51.6 77.4

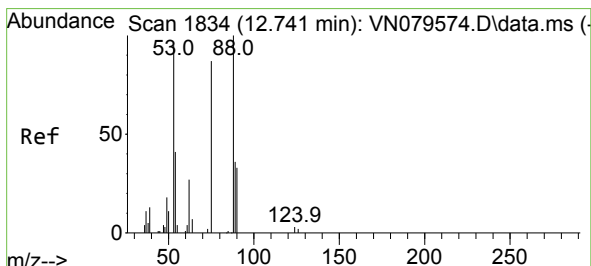
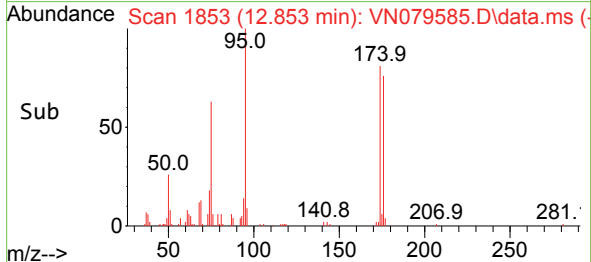
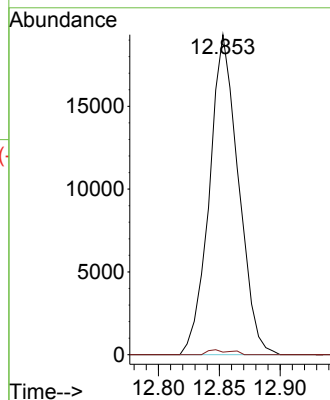
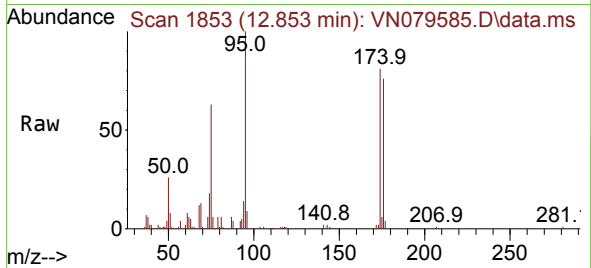




#72
1,2,3-Trichloropropane
Concen: 9.185 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN079585.D
Acq: 17 Oct 2023 16:45

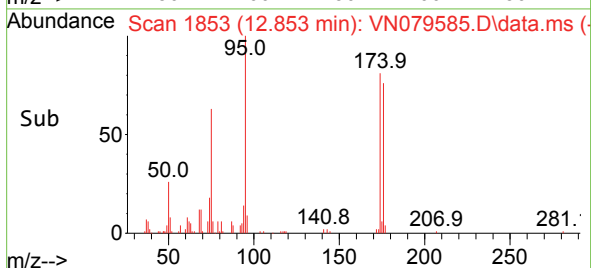
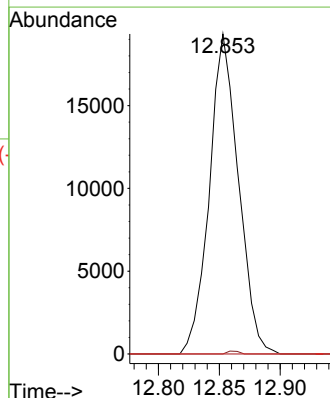
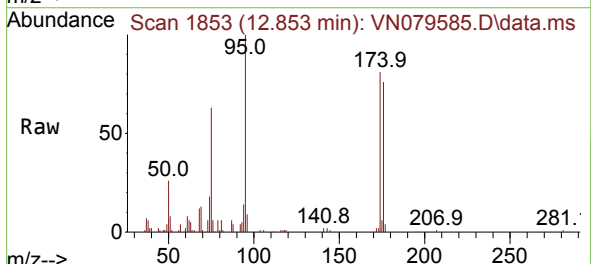
Instrument :
MSVOA_N
ClientSampleId :

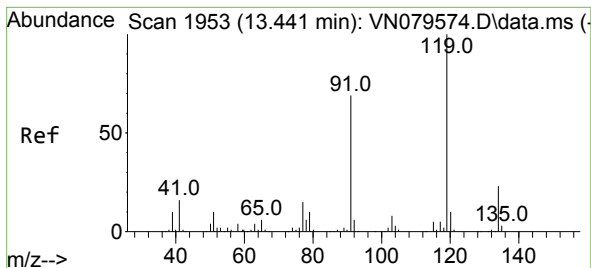
Tgt Ion: 75 Resp: 32142
Ion Ratio Lower Upper
75 100
77 0.8 0.0 338.2



#77
t-1,4-Dichloro-2-butene
Concen: 30.096 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN079585.D
Acq: 17 Oct 2023 16:45

Tgt Ion: 75 Resp: 32142
Ion Ratio Lower Upper
75 100
53 0.0 53.0 159.1#
89 0.0 22.6 67.7#





#79

tert-butylbenzene

Concen: 0.250 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.294 min

Lab File: VN079585.D

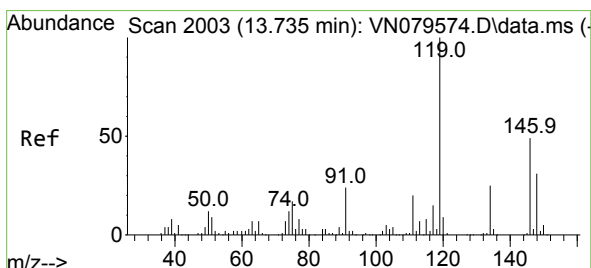
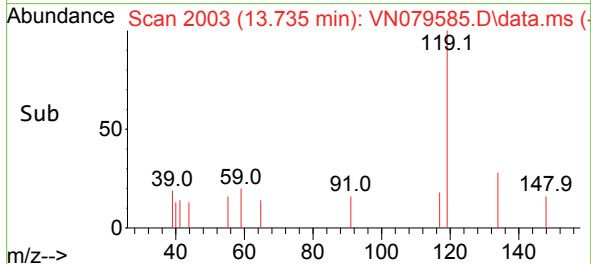
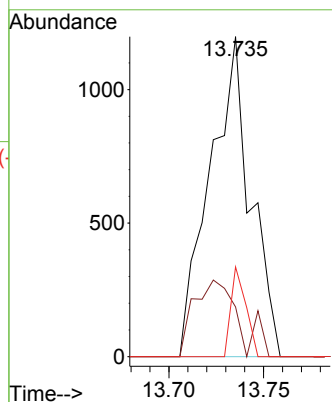
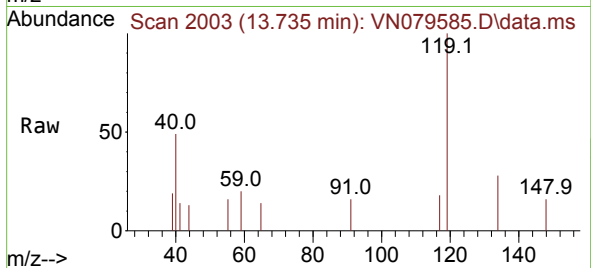
Acq: 17 Oct 2023 16:45

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	119	Resp:	1784
Ion	Ratio	Lower	Upper
119	100		
91	3.4	0.0	140.6
134	10.3	0.0	49.8



#82

p-Isopropyltoluene

Concen: 0.225 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

Lab File: VN079585.D

Acq: 17 Oct 2023 16:45

Tgt Ion:	119	Resp:	1784
Ion	Ratio	Lower	Upper
119	100		
134	10.3	0.0	52.2
91	3.4	0.0	50.0

