

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082923\
 Data File : VN079085.D
 Acq On : 29 Aug 2023 11:29
 Operator : JC\MD
 Sample : VN0829WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 29 23:36:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 18 05:21:14 2023
 Response via : Initial Calibration

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

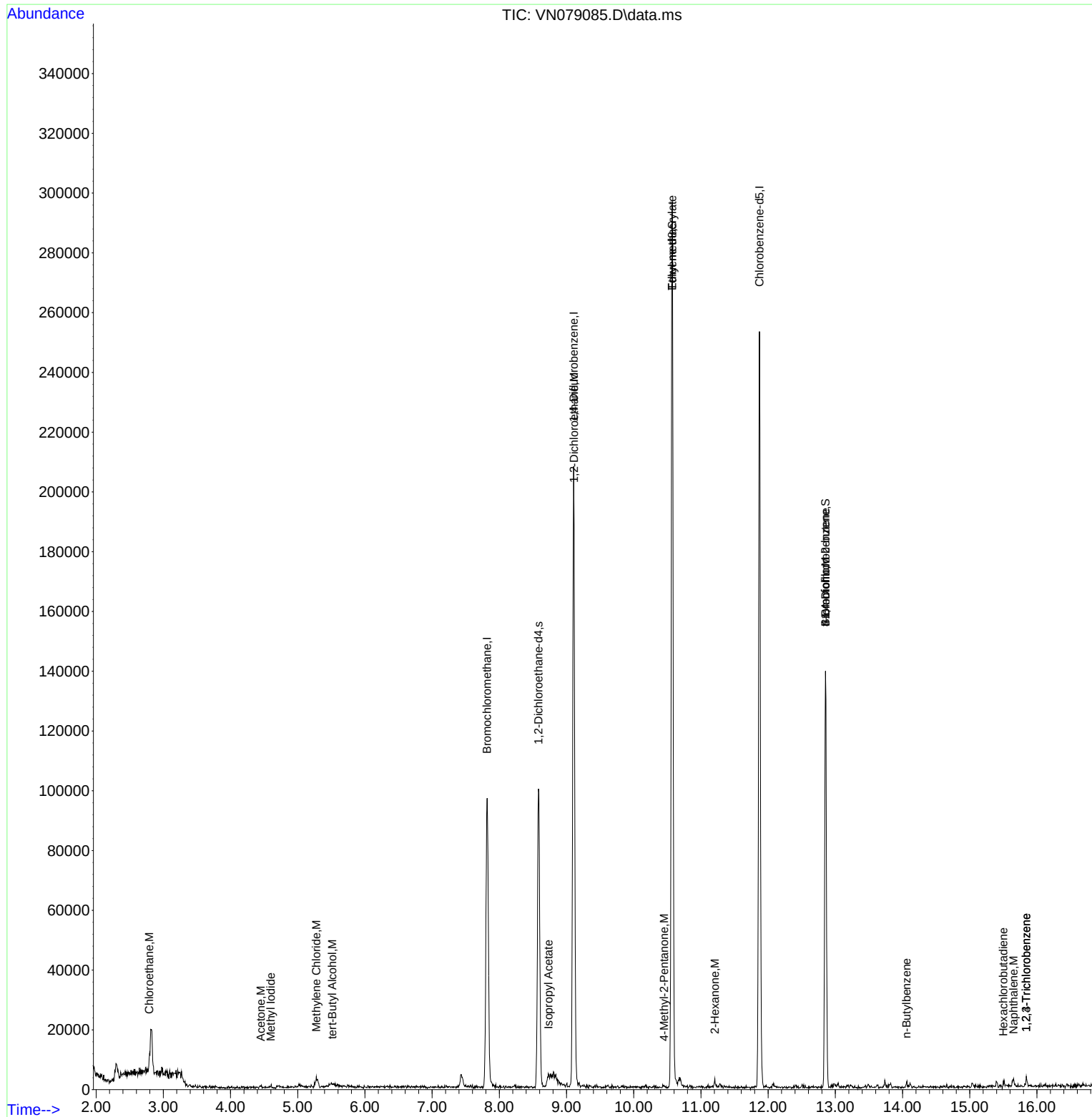
Internal Standards						
1) Bromochloromethane	7.818	128	32844	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	169229	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	140767	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	78771	29.604	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.667%
60) 4-Bromofluorobenzene	12.853	95	47153	22.964	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	76.533%
63) Toluene-d8	10.571	98	203869	31.013	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	103.367%
Target Compounds						
					Qvalue	
6) Chloroethane	2.789	64	1348	0.844	ug/l	92
11) Methyl Iodide	4.601	142	449	0.214	ug/l #	60
15) Acetone	4.448	58	211	0.642	ug/l #	1
18) Methylene Chloride	5.277	84	2030	0.976	ug/l #	70
23) tert-Butyl Alcohol	5.512	59	157	0.393	ug/l #	100
36) 1,2-Dichloroethane	9.112	62	6226	2.155	ug/l #	73
44) Isopropyl Acetate	8.730	43	2566	0.498	ug/l #	52
51) Ethyl methacrylate	10.571	69	609	0.209	ug/l #	37
56) Bromoform	12.853	173	462	0.318	ug/l #	1
58) 4-Methyl-2-Pentanone	10.453	43	861	0.308	ug/l #	46
59) 2-Hexanone	11.206	43	1379	0.674	ug/l #	87
77) t-1,4-Dichloro-2-butene	12.853	75	26483	32.360	ug/l #	3
85) n-Butylbenzene	14.059	91	1091	0.268	ug/l	53
89) 1,2,4-Trichlorobenzene	15.841	180	1176	0.988	ug/l #	72
90) Hexachlorobutadiene	15.500	225	163	0.263	ug/l #	1
91) Naphthalene	15.653	128	1319	0.384	ug/l #	68
92) 1,2,3-Trichlorobenzene	15.841	180	1176	0.988	ug/l #	72

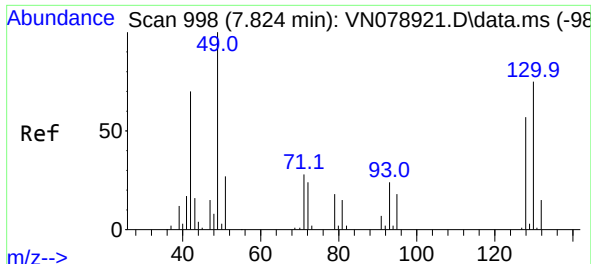
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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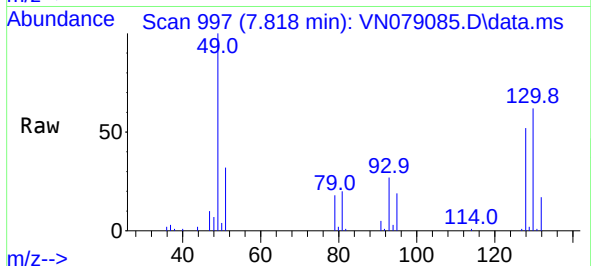
Quant Time: Aug 29 23:36:06 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Aug 18 05:21:14 2023
Response via : Initial Calibration



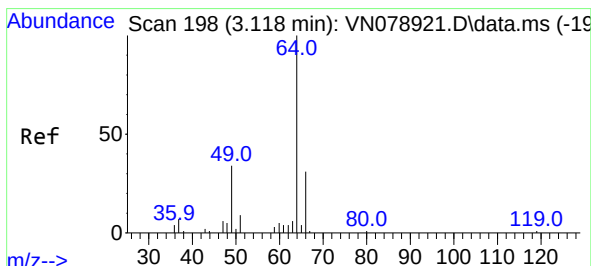
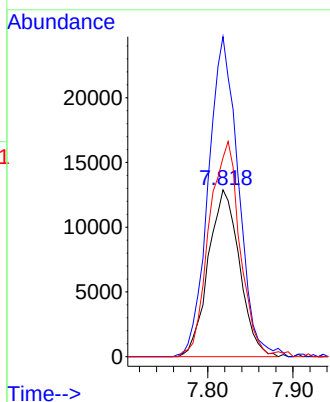
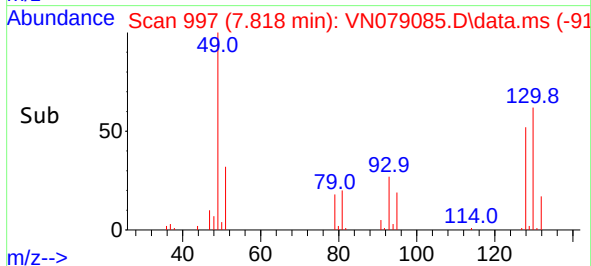


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN079085.D
Acq: 29 Aug 2023 11:29

Instrument :
MSVOA_N
ClientSampleId :

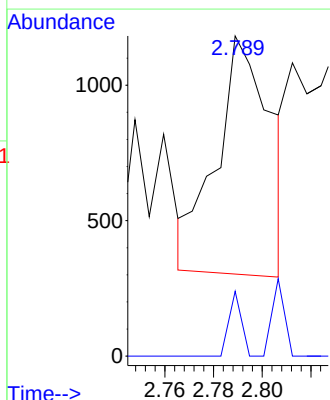
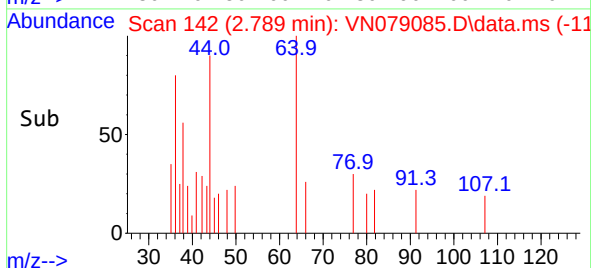
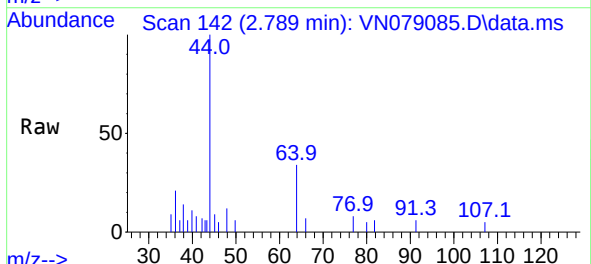


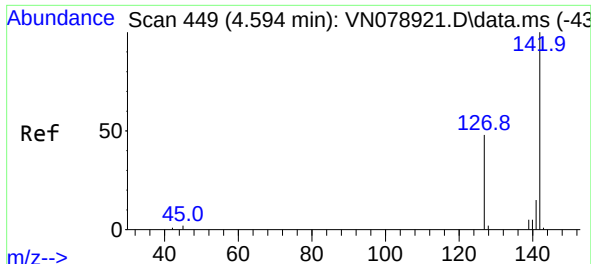
Tgt Ion:128 Resp: 32844
Ion Ratio Lower Upper
128 100
49 183.1 0.0 481.8
130 126.8 0.0 320.5



#6
Chloroethane
Concen: 0.844 ug/l
RT: 2.789 min Scan# 142
Delta R.T. -0.329 min
Lab File: VN079085.D
Acq: 29 Aug 2023 11:29

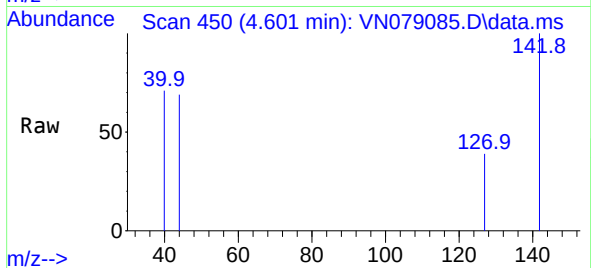
Tgt Ion: 64 Resp: 1348
Ion Ratio Lower Upper
64 100
66 35.5 24.9 37.3



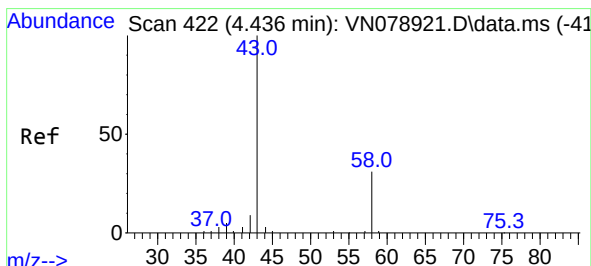
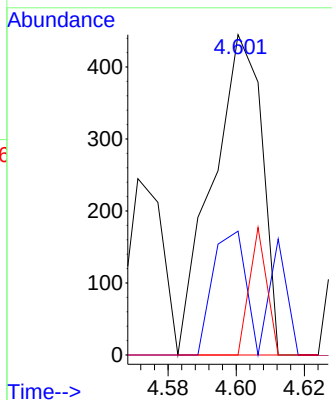
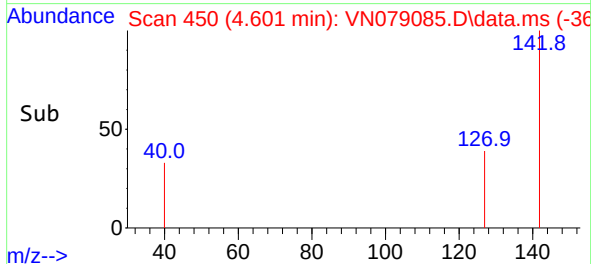


#11
Methyl Iodide
Concen: 0.214 ug/l
RT: 4.601 min Scan# 449
Delta R.T. 0.006 min
Lab File: VN079085.D
Acq: 29 Aug 2023 11:29

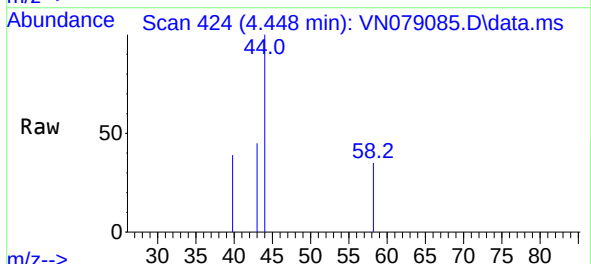
Instrument :
MSVOA_N
ClientSampleId :



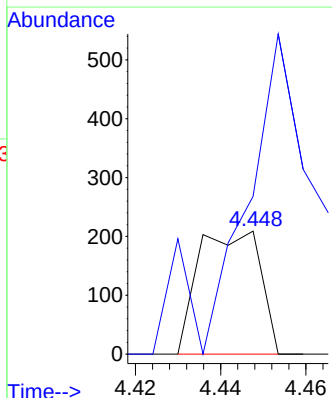
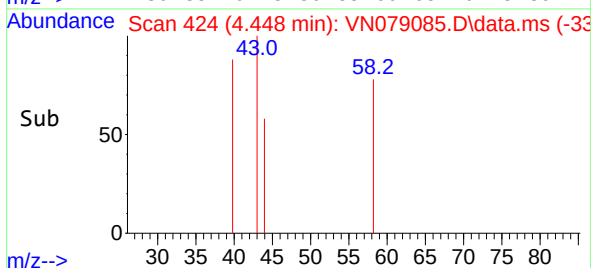
Tgt Ion:142 Resp: 449
Ion Ratio Lower Upper
142 100
127 20.6 24.3 72.9#
141 0.0 7.3 22.0#

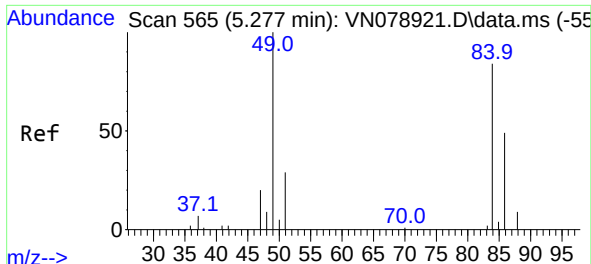


#15
Acetone
Concen: 0.642 ug/l
RT: 4.448 min Scan# 424
Delta R.T. 0.012 min
Lab File: VN079085.D
Acq: 29 Aug 2023 11:29



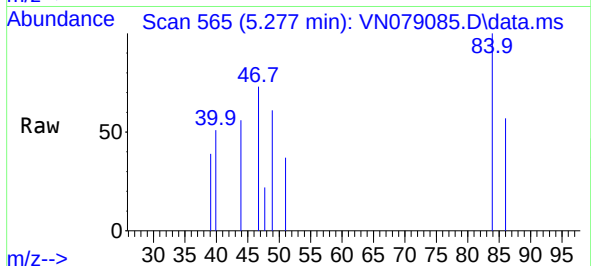
Tgt Ion: 58 Resp: 211
Ion Ratio Lower Upper
58 100
43 34.4 260.6 390.8#





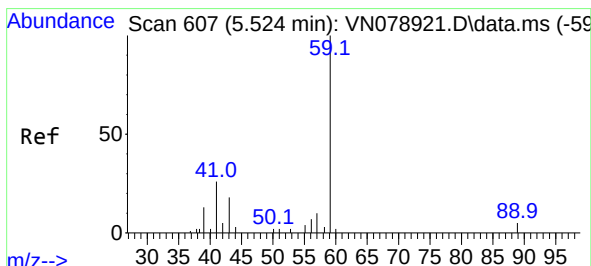
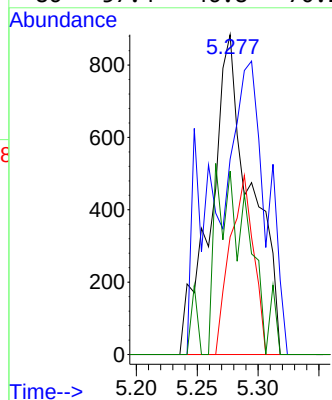
#18
Methylene Chloride
Concen: 0.976 ug/l
RT: 5.277 min Scan# 50
Delta R.T. 0.000 min
Lab File: VN079085.D
Acq: 29 Aug 2023 11:29

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 2030

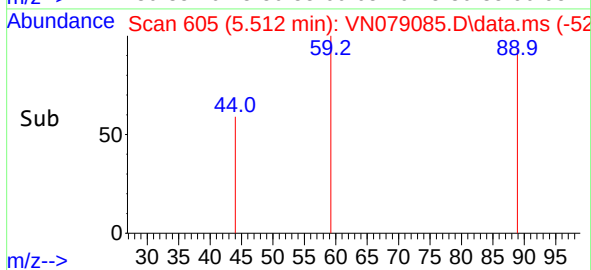
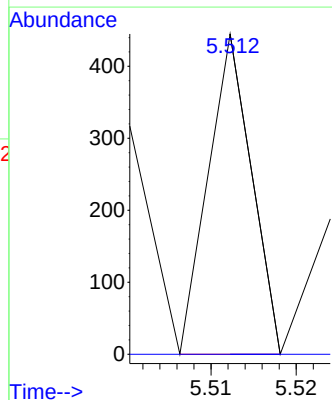
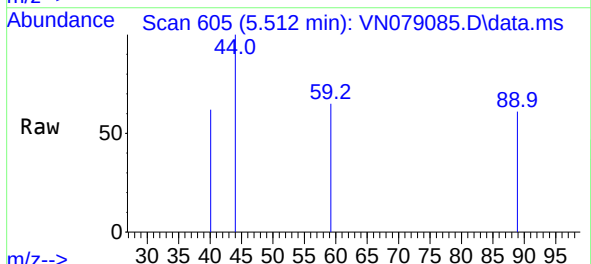
Ion	Ratio	Lower	Upper
84	100		
49	61.1	95.8	143.6#
51	36.8	28.6	43.0
86	57.4	46.8	70.2

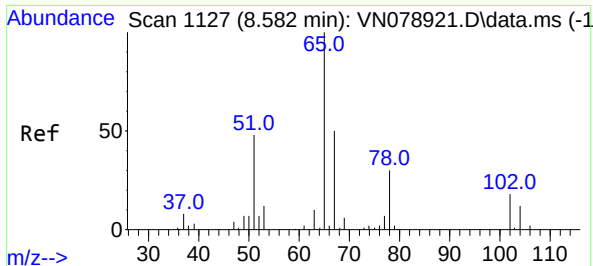


#23
tert-Butyl Alcohol
Concen: 0.393 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.012 min
Lab File: VN079085.D
Acq: 29 Aug 2023 11:29

Tgt Ion: 59 Resp: 157

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

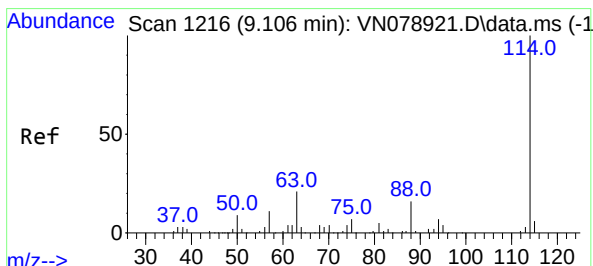
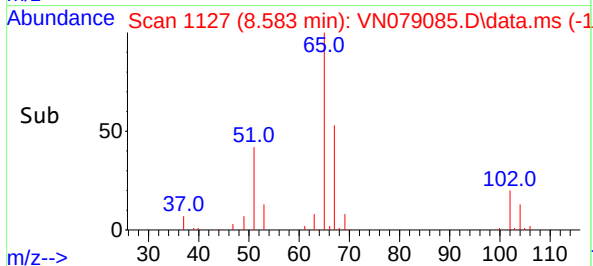
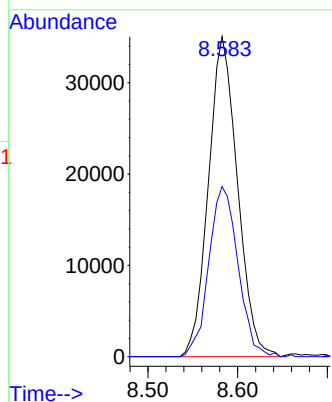
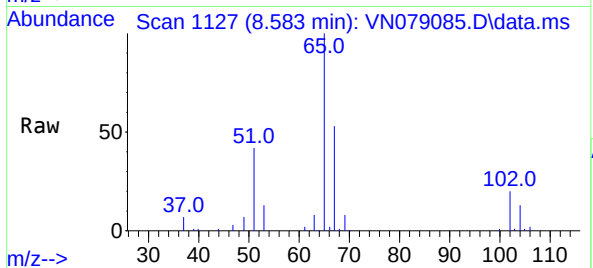




#27
1,2-Dichloroethane-d4
Concen: 29.604 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN079085.D
Acq: 29 Aug 2023 11:29

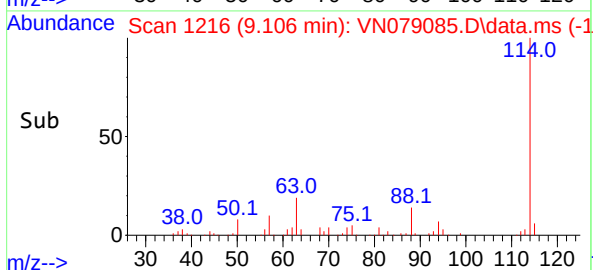
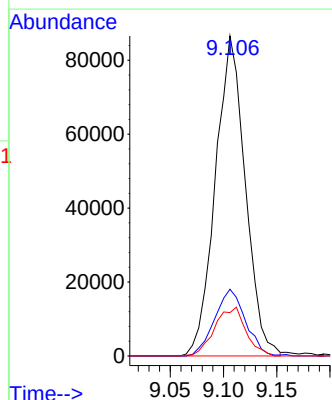
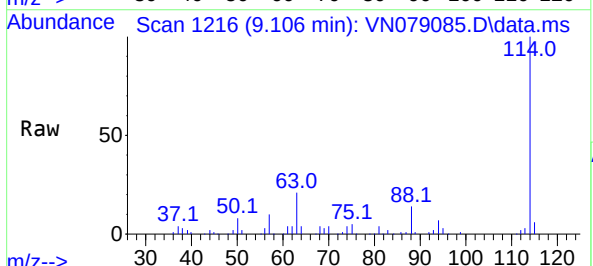
Instrument :
MSVOA_N
ClientSampleId :

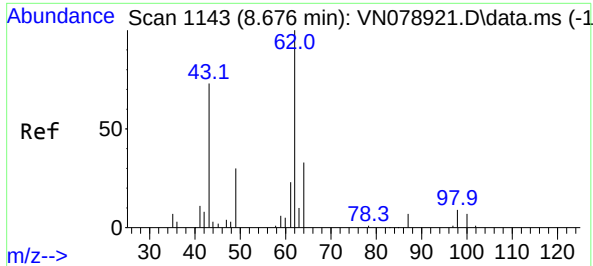
Tgt Ion: 65 Resp: 78771
Ion Ratio Lower Upper
65 100
67 53.2 40.7 61.1



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. 0.000 min
Lab File: VN079085.D
Acq: 29 Aug 2023 11:29

Tgt Ion: 114 Resp: 169229
Ion Ratio Lower Upper
114 100
63 21.4 17.4 26.2
88 15.9 12.0 18.0

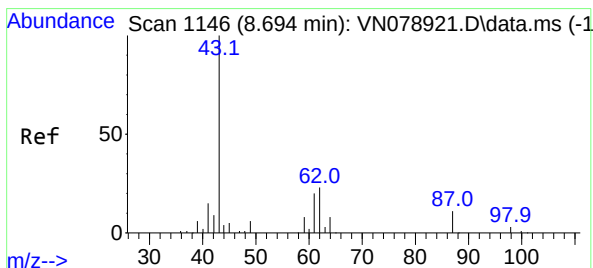
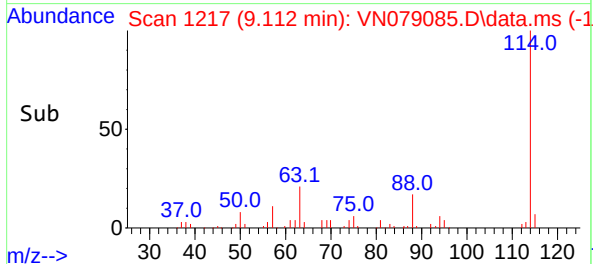
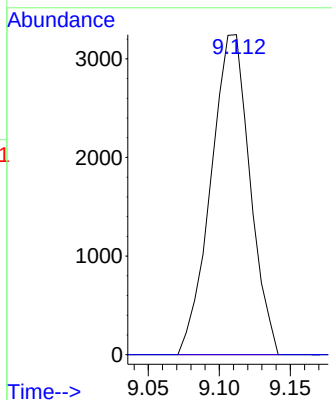
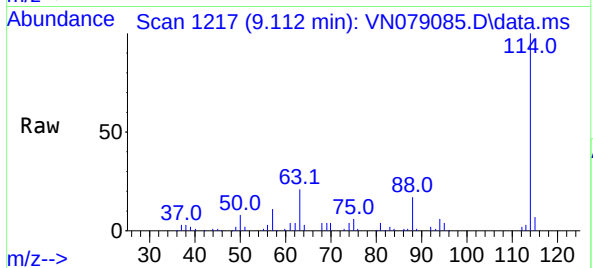




#36
1,2-Dichloroethane
Concen: 2.155 ug/l
RT: 9.112 min Scan# 1117
Delta R.T. 0.436 min
Lab File: VN079085.D
Acq: 29 Aug 2023 11:29

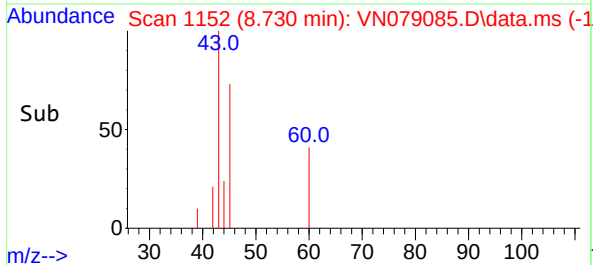
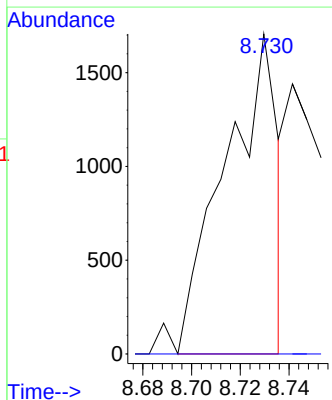
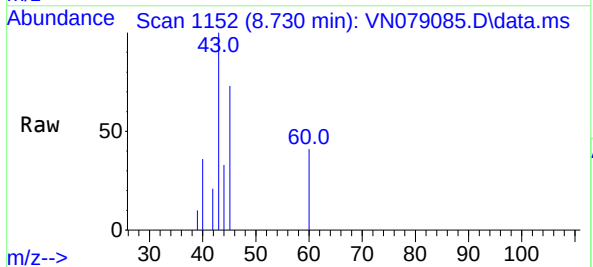
Instrument :
MSVOA_N
ClientSampleId :

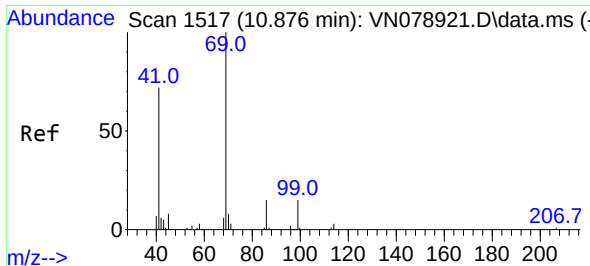
Tgt Ion: 62 Resp: 6226
Ion Ratio Lower Upper
62 100
98 0.0 8.1 12.1#



#44
Isopropyl Acetate
Concen: 0.498 ug/l
RT: 8.730 min Scan# 1152
Delta R.T. 0.036 min
Lab File: VN079085.D
Acq: 29 Aug 2023 11:29

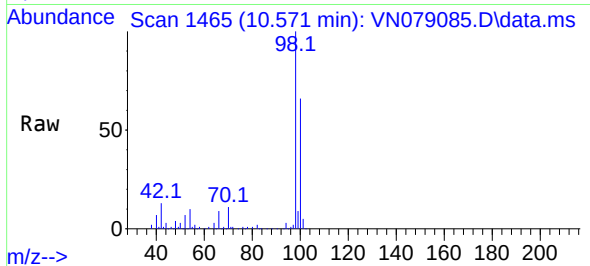
Tgt Ion: 43 Resp: 2566
Ion Ratio Lower Upper
43 100
61 0.0 19.0 28.4#



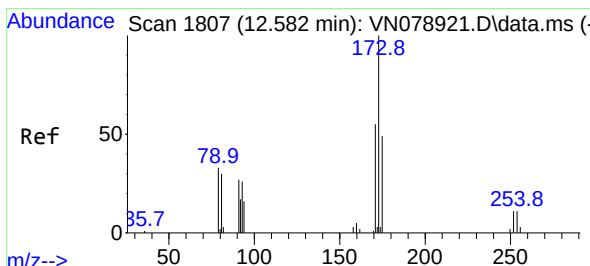
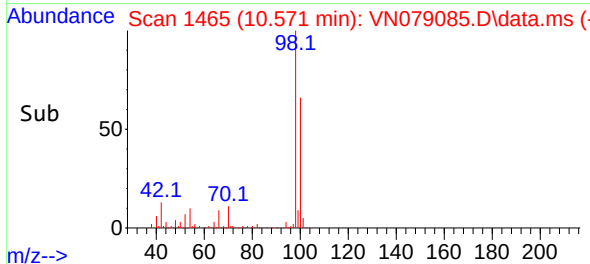
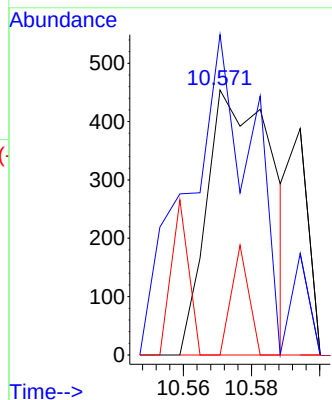


#51
Ethyl methacrylate
Concen: 0.209 ug/l
RT: 10.571 min Scan# 14
Delta R.T. -0.306 min
Lab File: VN079085.D
Acq: 29 Aug 2023 11:29

Instrument :
MSVOA_N
ClientSampleId :

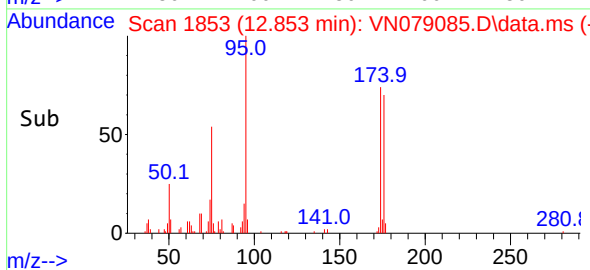
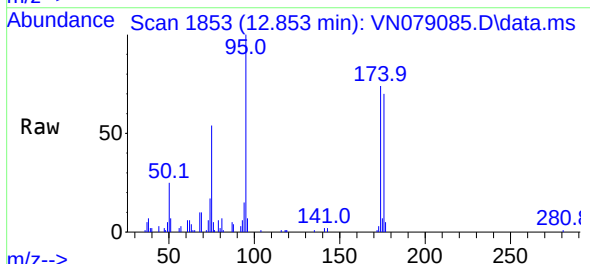
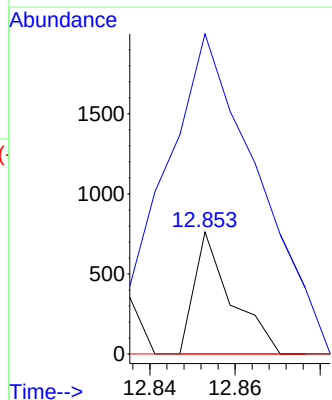


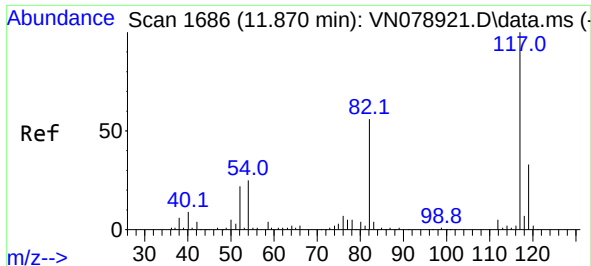
Tgt Ion: 69 Resp: 609
Ion Ratio Lower Upper
69 100
41 120.9 35.9 107.8#
39 0.0 23.5 70.5#



#56
Bromoform
Concen: 0.318 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN079085.D
Acq: 29 Aug 2023 11:29

Tgt Ion: 173 Resp: 462
Ion Ratio Lower Upper
173 100
175 662.6 38.8 58.2#
254 0.0 7.6 11.4#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN079085.D

Acq: 29 Aug 2023 11:29

Instrument :

MSVOA_N

ClientSampleId :

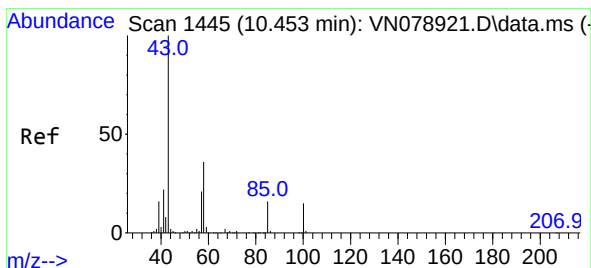
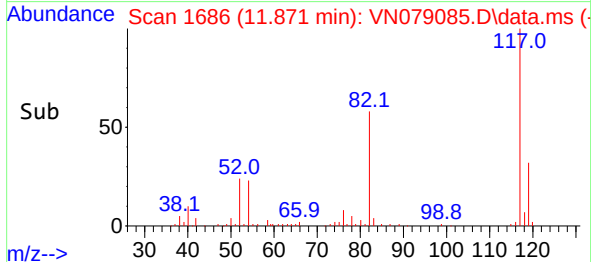
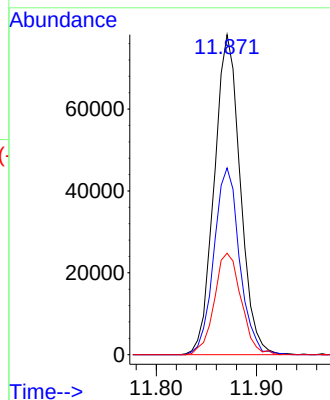
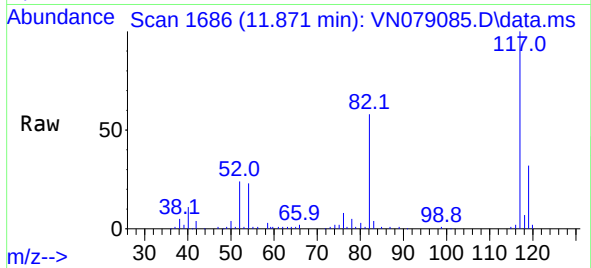
Tgt Ion:117 Resp: 140767

Ion Ratio Lower Upper

117 100

82 57.2 43.4 65.0

119 32.8 25.5 38.3



#58

4-Methyl-2-Pentanone

Concen: 0.308 ug/l

RT: 10.453 min Scan# 1445

Delta R.T. 0.000 min

Lab File: VN079085.D

Acq: 29 Aug 2023 11:29

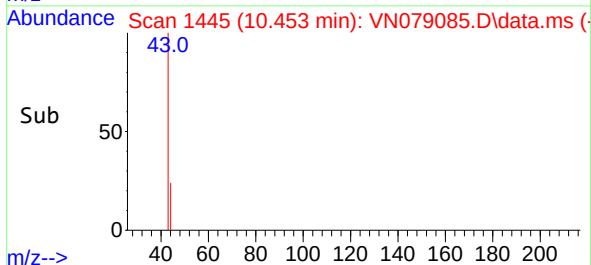
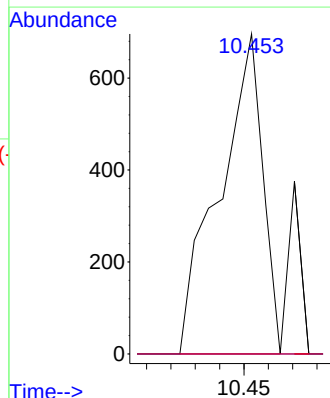
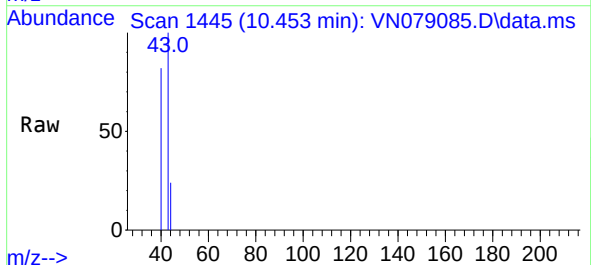
Tgt Ion: 43 Resp: 861

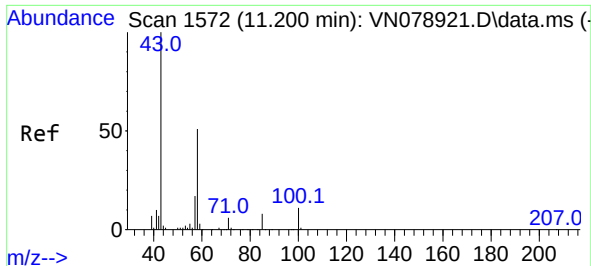
Ion Ratio Lower Upper

43 100

58 0.0 28.8 43.2#

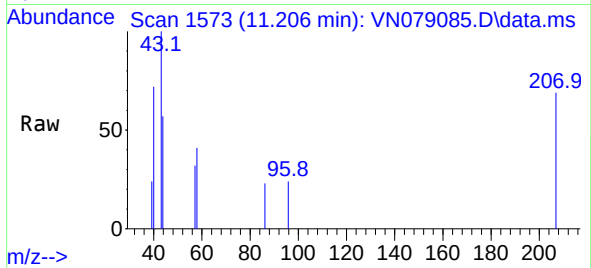
85 0.0 12.7 19.1#



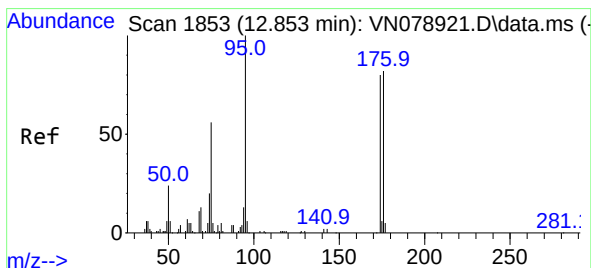
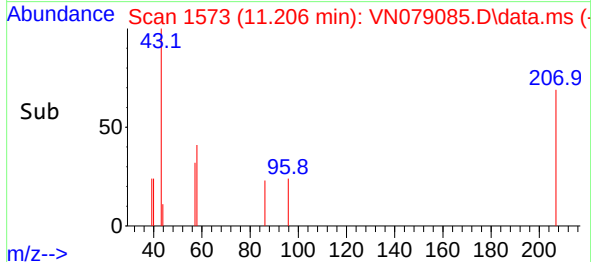
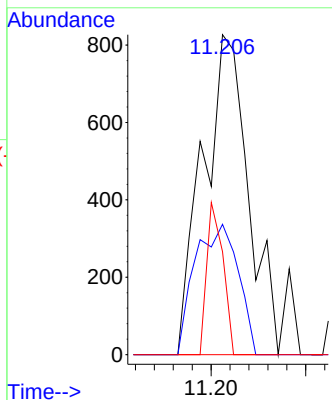


#59
2-Hexanone
Concen: 0.674 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN079085.D
Acq: 29 Aug 2023 11:29

Instrument :
MSVOA_N
ClientSampleId :

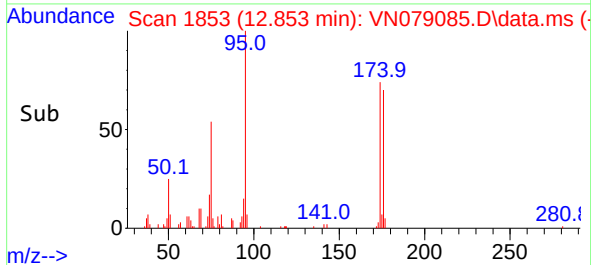
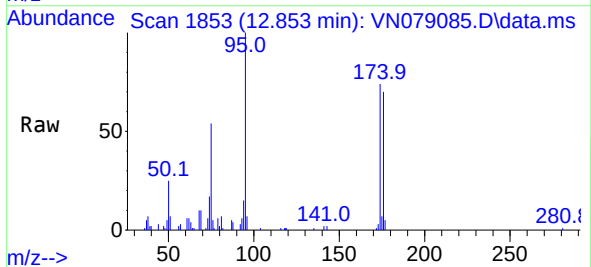
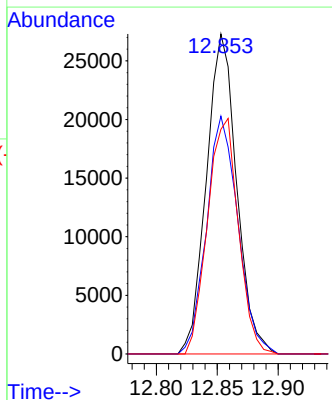


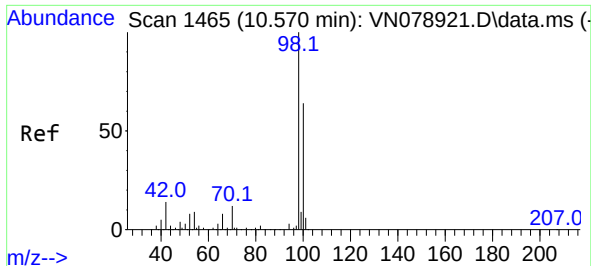
Tgt Ion: 43 Resp: 1379
Ion Ratio Lower Upper
43 100
58 38.7 40.6 60.8#
57 16.9 13.6 20.4



#60
4-Bromofluorobenzene
Concen: 22.964 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079085.D
Acq: 29 Aug 2023 11:29

Tgt Ion: 95 Resp: 47153
Ion Ratio Lower Upper
95 100
174 77.1 64.8 97.2
176 74.7 63.0 94.6

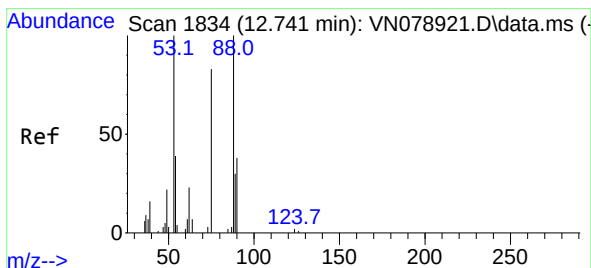
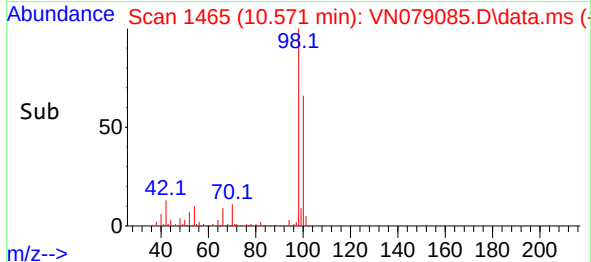
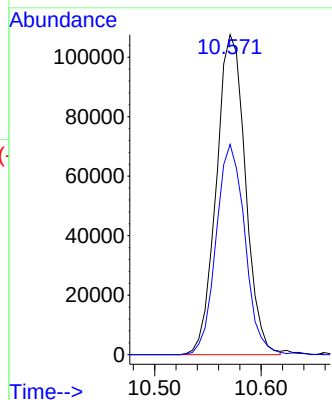
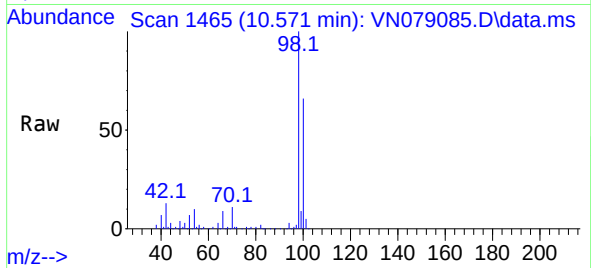




#63
Toluene-d8
Concen: 31.013 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079085.D
Acq: 29 Aug 2023 11:29

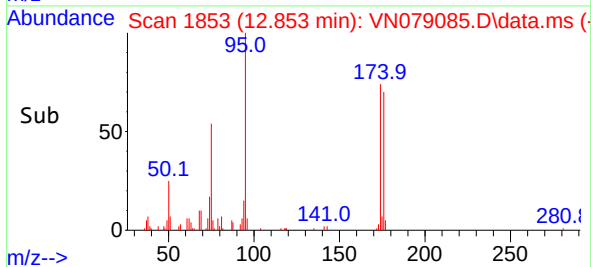
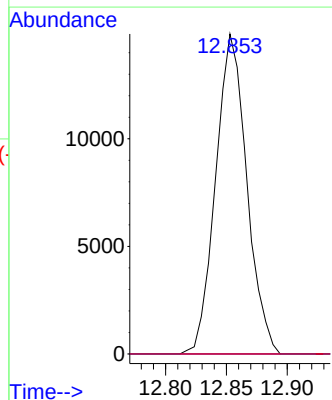
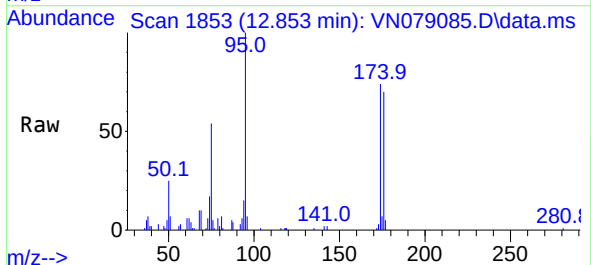
Instrument :
MSVOA_N
ClientSampleId :

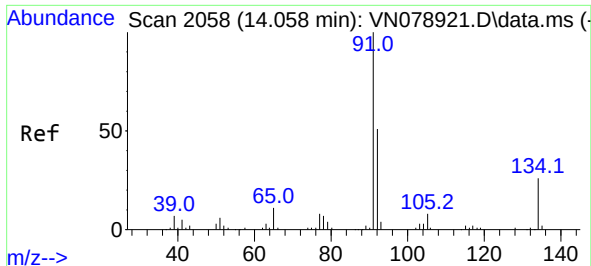
Tgt Ion: 98 Resp: 203869
Ion Ratio Lower Upper
98 100
100 65.1 51.1 76.7



#77
t-1,4-Dichloro-2-butene
Concen: 32.360 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN079085.D
Acq: 29 Aug 2023 11:29

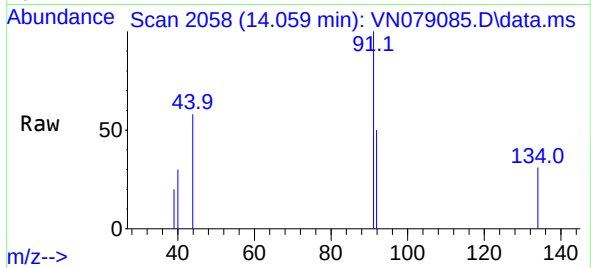
Tgt Ion: 75 Resp: 26483
Ion Ratio Lower Upper
75 100
53 0.0 60.1 180.3#
89 0.0 22.9 68.8#



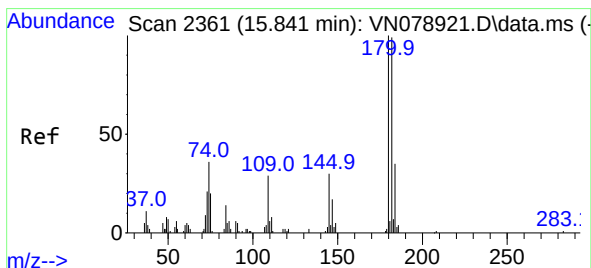
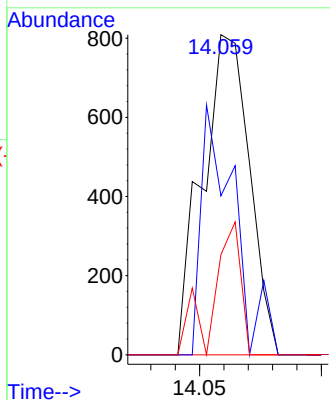
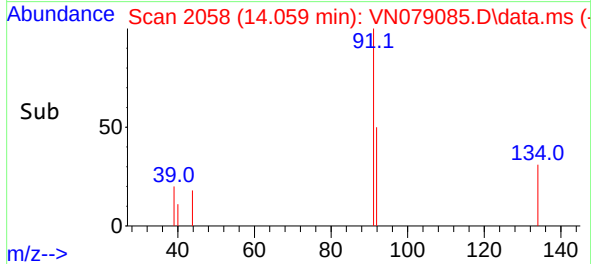


#85
n-Butylbenzene
Concen: 0.268 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VN079085.D
Acq: 29 Aug 2023 11:29

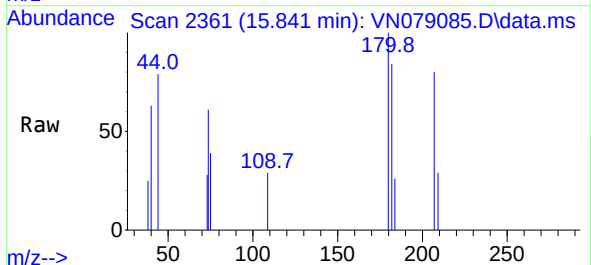
Instrument :
MSVOA_N
ClientSampleId :



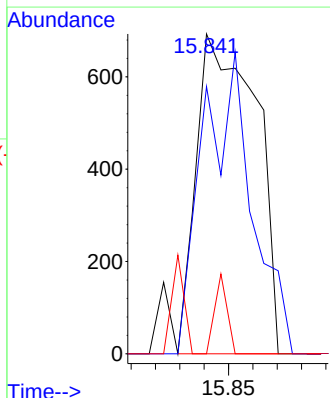
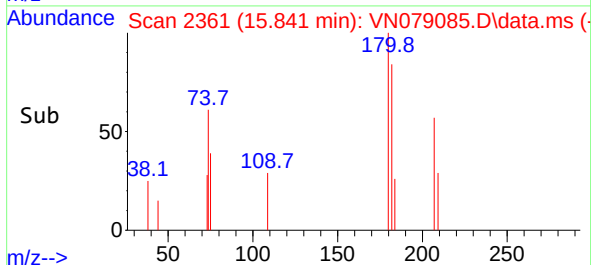
Tgt Ion: 91 Resp: 1091
Ion Ratio Lower Upper
91 100
92 6.0 0.0 102.8
134 19.1 0.0 48.6

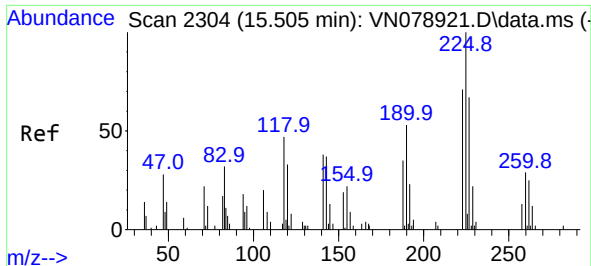


#89
1,2,4-Trichlorobenzene
Concen: 0.988 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN079085.D
Acq: 29 Aug 2023 11:29



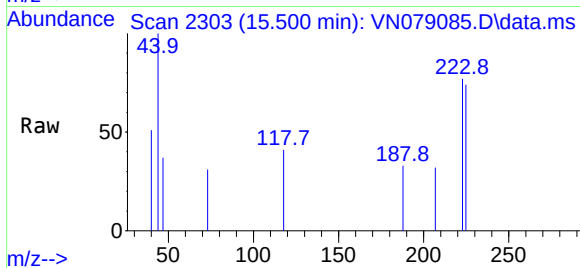
Tgt Ion: 180 Resp: 1176
Ion Ratio Lower Upper
180 100
182 77.9 76.1 114.1
145 0.0 26.5 39.7#



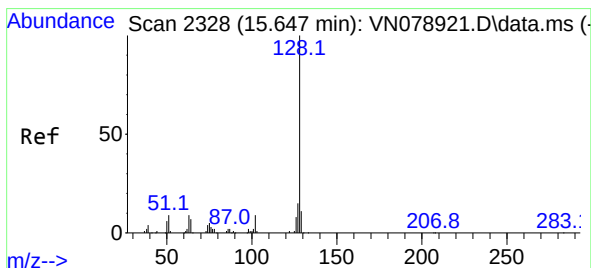
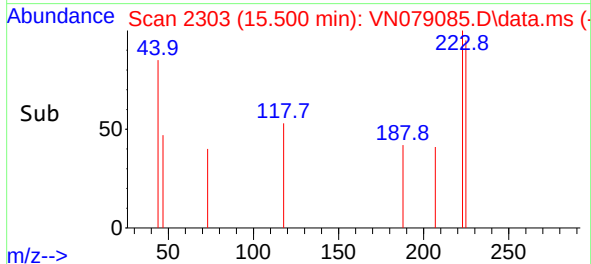
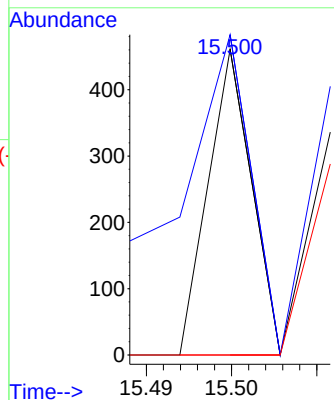


#90
Hexachlorobutadiene
Concen: 0.263 ug/l
RT: 15.500 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN079085.D
Acq: 29 Aug 2023 11:29

Instrument :
MSVOA_N
ClientSampleId :

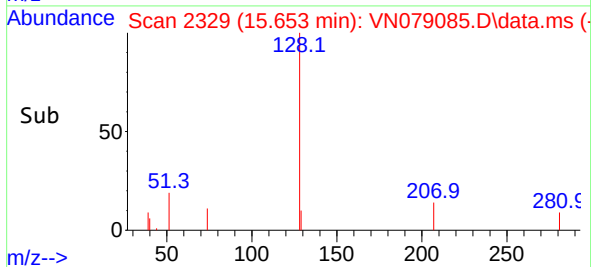
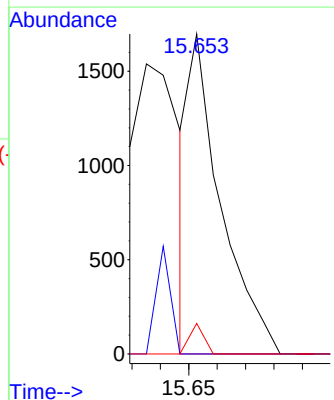
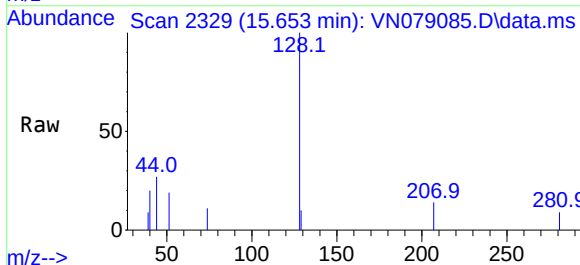


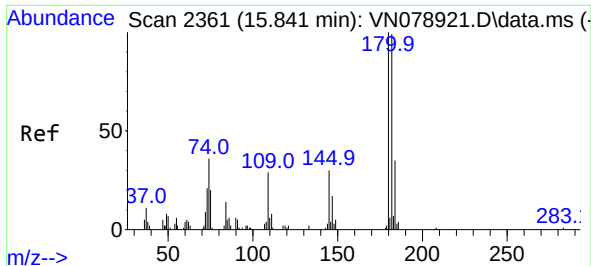
Tgt Ion:225 Resp: 163
Ion Ratio Lower Upper
225 100
223 186.5 0.0 124.0#
227 0.0 0.0 117.4



#91
Naphthalene
Concen: 0.384 ug/l
RT: 15.653 min Scan# 2329
Delta R.T. 0.006 min
Lab File: VN079085.D
Acq: 29 Aug 2023 11:29

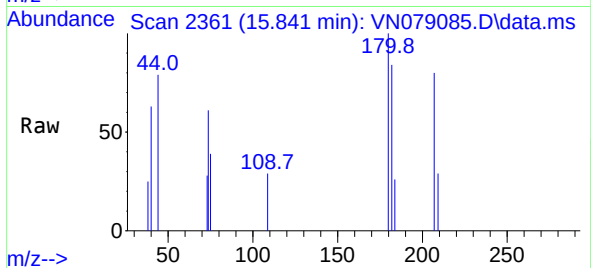
Tgt Ion:128 Resp: 1319
Ion Ratio Lower Upper
128 100
127 0.0 11.1 16.7#
129 0.0 8.6 13.0#





#92
 1,2,3-Trichlorobenzene
 Concen: 0.988 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN079085.D
 Acq: 29 Aug 2023 11:29

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	1176
Ion	Ratio	Lower	Upper
180	100		
182	77.9	0.0	190.2
145	0.0	0.0	66.2

