

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041422\
 Data File : VN071988.D
 Acq On : 14 Apr 2022 11:02
 Operator : JC\MD
 Sample : VN0414WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0414WBL01

Quant Time: Apr 15 01:36:01 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032422W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 24 12:03:44 2022
 Response via : Initial Calibration

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

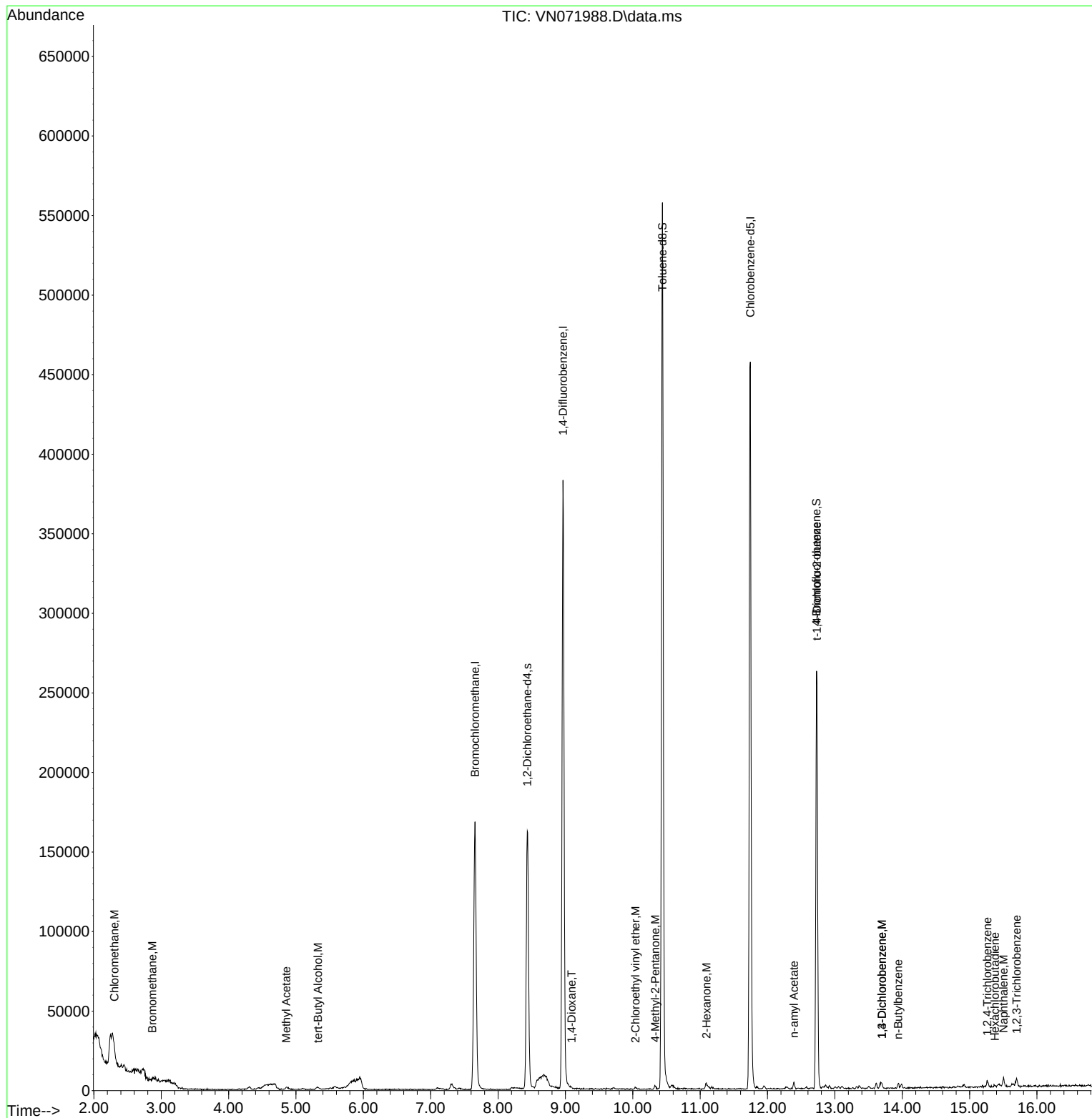
Internal Standards						
1) Bromochloromethane	7.657	128	68787	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	357025	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.745	117	301866	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	137885	28.451	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	94.833%
60) 4-Bromofluorobenzene	12.727	95	99257	22.176	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	73.933%
63) Toluene-d8	10.439	98	415293	30.307	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.033%
Target Compounds						
					Qvalue	
3) Chloromethane	2.304	50	1598	0.317	ug/l	98
5) Bromomethane	2.869	94	771	0.226	ug/l	94
12) Methyl Acetate	4.857	43	1768	0.315	ug/l #	49
23) tert-Butyl Alcohol	5.328	59	844	0.930	ug/l #	100
45) 1,4-Dioxane	9.092	88	135	1.337	ug/l #	1
47) n-amyl Acetate	12.392	43	2071	0.310	ug/l #	90
55) 2-Chloroethyl vinyl ether	10.039	63	715	0.378	ug/l #	44
58) 4-Methyl-2-Pentanone	10.333	43	1482	0.259	ug/l #	49
59) 2-Hexanone	11.092	43	4199	1.004	ug/l #	90
77) t-1,4-Dichloro-2-butene	12.733	75	47670	25.153	ug/l #	8
83) 1,3-Dichlorobenzene	13.698	146	1955	0.254	ug/l	92
84) 1,4-Dichlorobenzene	13.698	146	1955	0.266	ug/l	94
85) n-Butylbenzene	13.939	91	2422	0.214	ug/l	89
89) 1,2,4-Trichlorobenzene	15.262	180	2061	0.598	ug/l #	62
90) Hexachlorobutadiene	15.374	225	602	0.295	ug/l #	26
91) Naphthalene	15.503	128	6591	7.373	ug/l #	77
92) 1,2,3-Trichlorobenzene	15.698	180	2789	0.826	ug/l	83

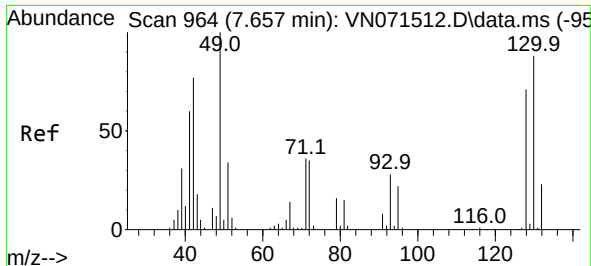
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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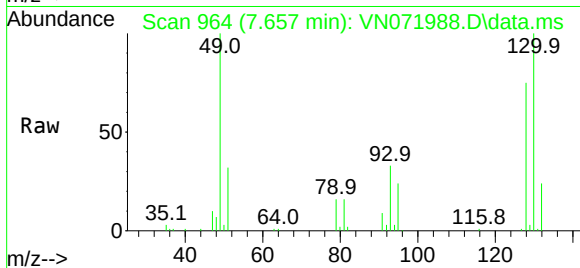
Quant Time: Apr 15 01:36:01 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032422W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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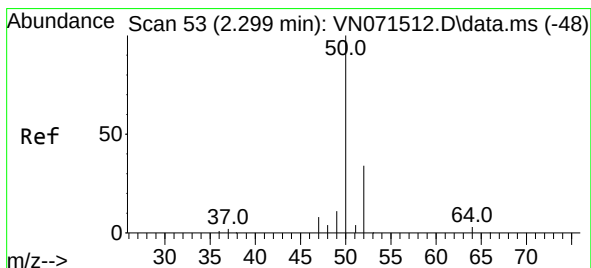
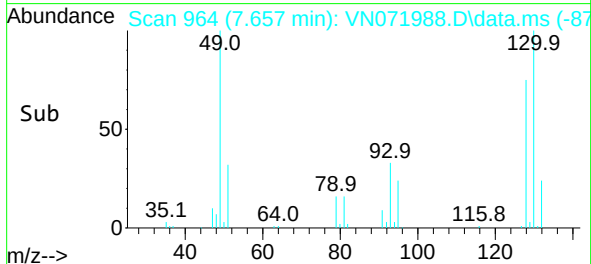
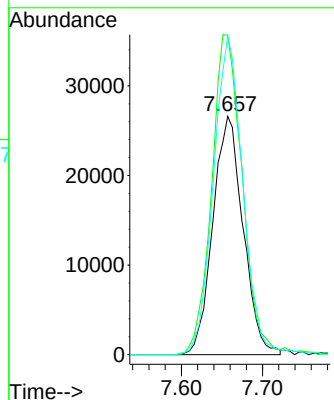


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.657 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN071988.D
Acq: 14 Apr 2022 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBL01

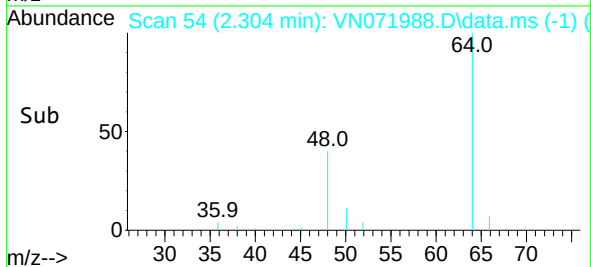
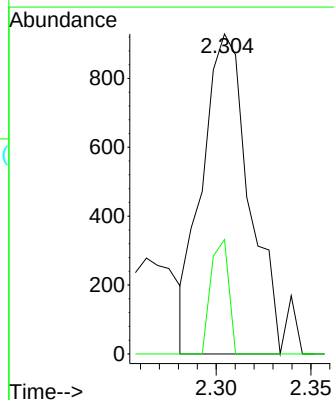
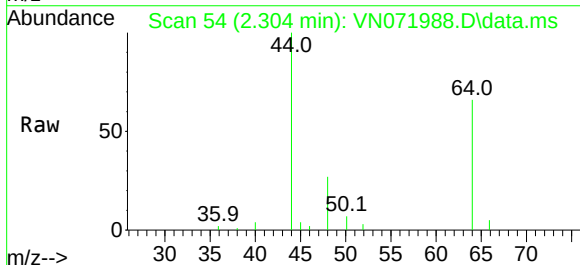


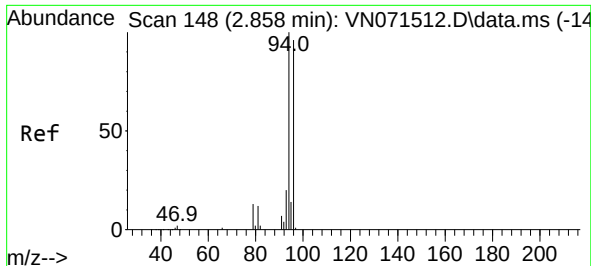
Tgt Ion:128 Resp: 68787
Ion Ratio Lower Upper
128 100
49 135.2 0.0 392.3
130 129.8 0.0 320.2



#3
Chloromethane
Concen: 0.317 ug/l
RT: 2.304 min Scan# 54
Delta R.T. 0.006 min
Lab File: VN071988.D
Acq: 14 Apr 2022 11:02

Tgt Ion: 50 Resp: 1598
Ion Ratio Lower Upper
50 100
52 35.7 27.8 41.6

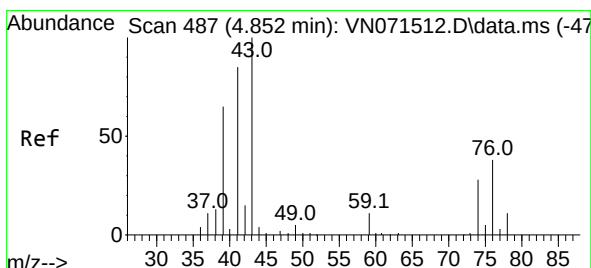
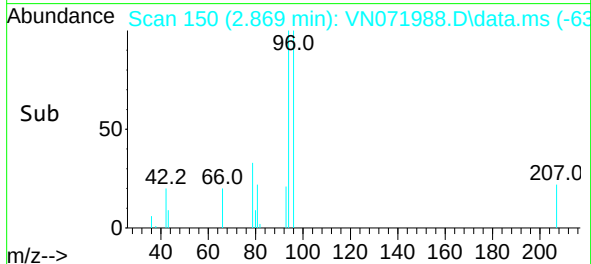
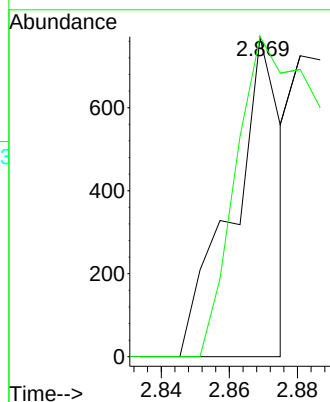
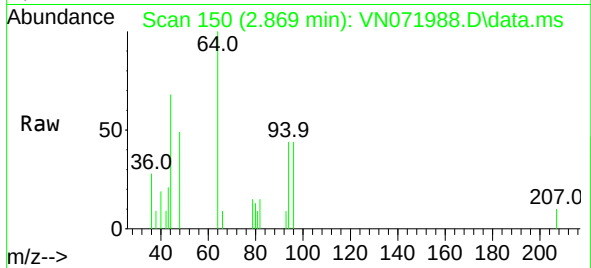




#5
Bromomethane
Concen: 0.226 ug/l
RT: 2.869 min Scan# 11
Delta R.T. 0.011 min
Lab File: VN071988.D
Acq: 14 Apr 2022 11:02

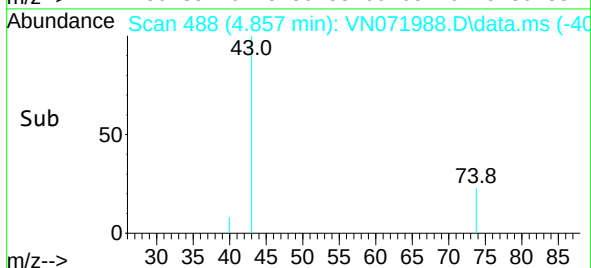
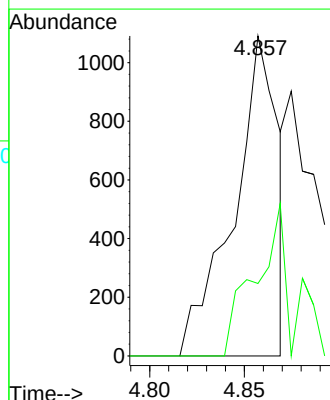
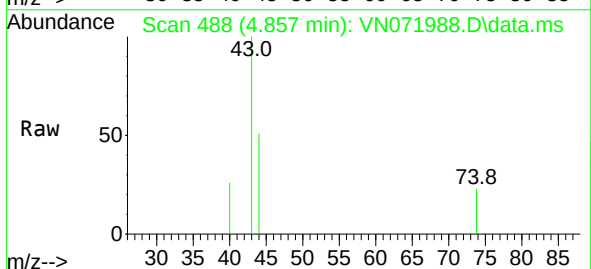
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBL01

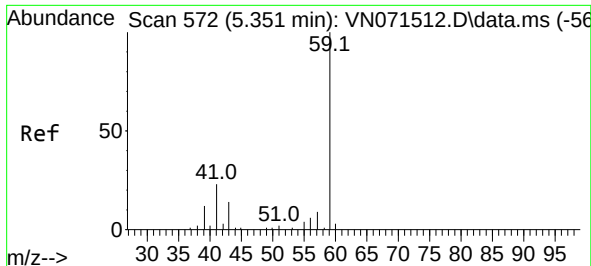
Tgt Ion: 94 Resp: 771
Ion Ratio Lower Upper
94 100
96 100.3 75.2 112.8



#12
Methyl Acetate
Concen: 0.315 ug/l
RT: 4.857 min Scan# 488
Delta R.T. 0.006 min
Lab File: VN071988.D
Acq: 14 Apr 2022 11:02

Tgt Ion: 43 Resp: 1768
Ion Ratio Lower Upper
43 100
74 0.0 20.8 31.2#

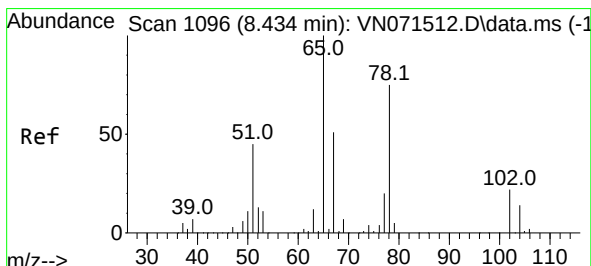
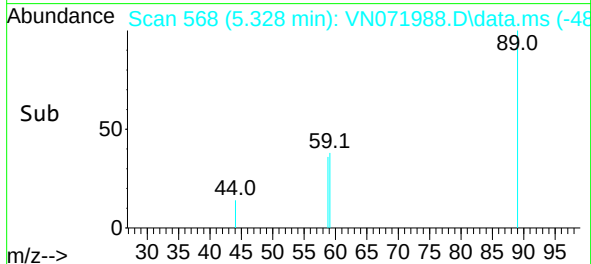
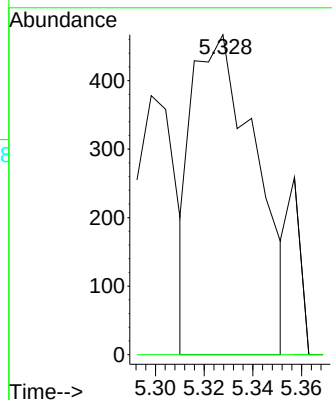
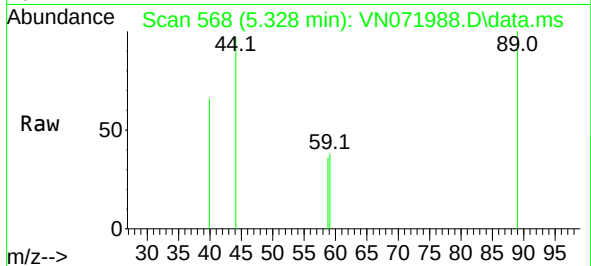




#23
tert-Butyl Alcohol
Concen: 0.930 ug/l
RT: 5.328 min Scan# 51
Delta R.T. -0.024 min
Lab File: VN071988.D
Acq: 14 Apr 2022 11:02

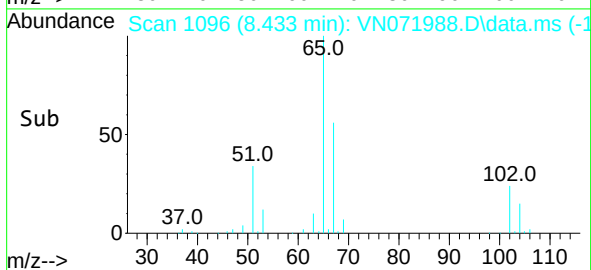
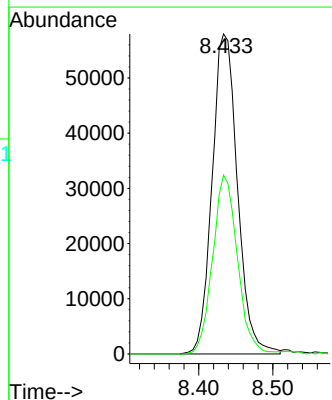
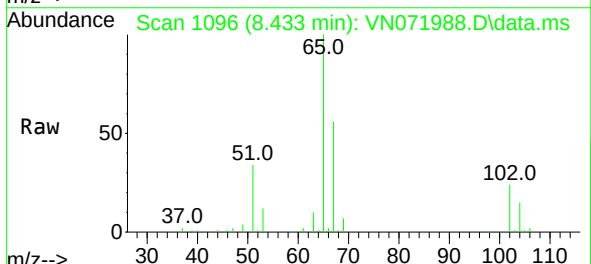
Instrument :
MSVOA_N
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VN0414WBL01

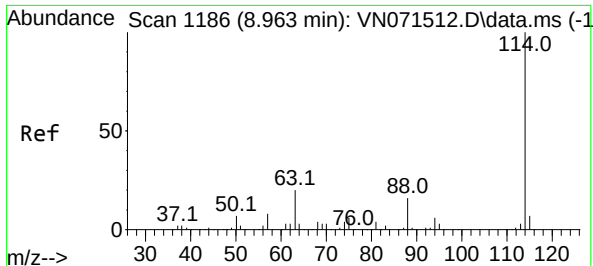
Tgt Ion: 59 Resp: 844
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 28.451 ug/l
RT: 8.433 min Scan# 1096
Delta R.T. -0.000 min
Lab File: VN071988.D
Acq: 14 Apr 2022 11:02

Tgt Ion: 65 Resp: 137885
Ion Ratio Lower Upper
65 100
67 54.5 40.2 60.2

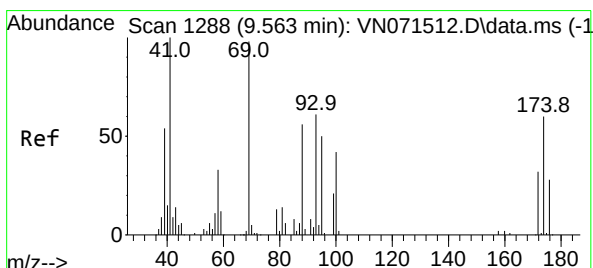
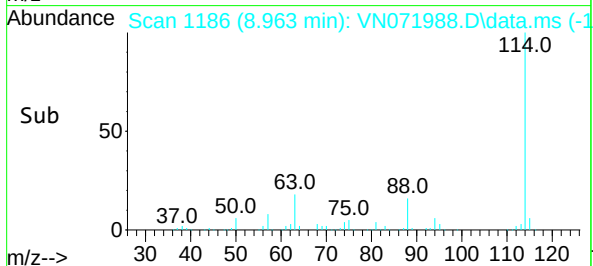
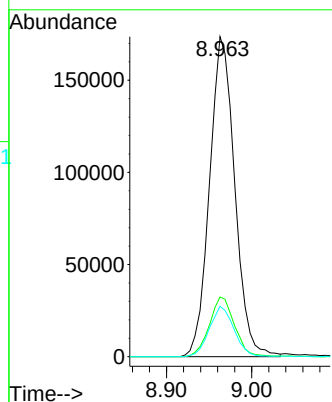
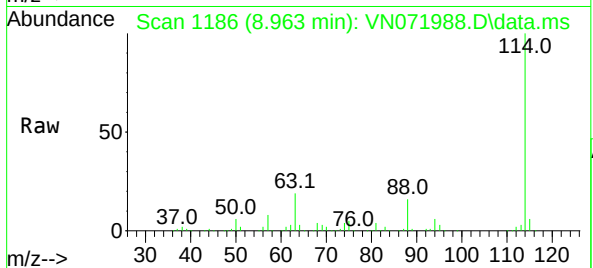




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. -0.000 min
Lab File: VN071988.D
Acq: 14 Apr 2022 11:02

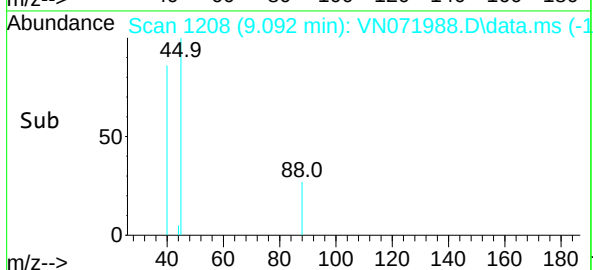
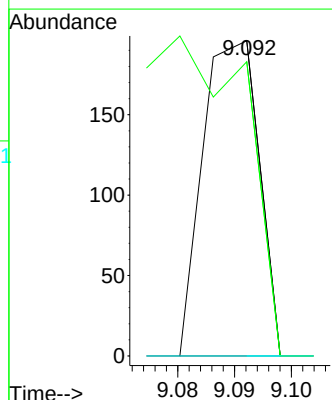
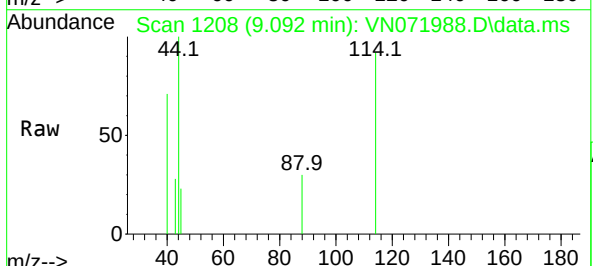
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MSVOA_N
ClientSampleId :
VN0414WBL01

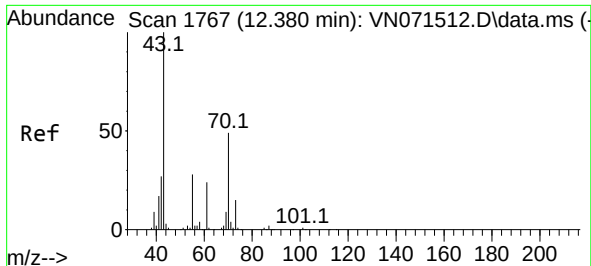
Tgt Ion:114 Resp: 357025
Ion Ratio Lower Upper
114 100
63 18.6 15.8 23.6
88 15.4 11.6 17.4



#45
1,4-Dioxane
Concen: 1.337 ug/l
RT: 9.092 min Scan# 1208
Delta R.T. -0.471 min
Lab File: VN071988.D
Acq: 14 Apr 2022 11:02

Tgt Ion: 88 Resp: 135
Ion Ratio Lower Upper
88 100
43 131.9 25.0 37.6#
58 0.0 49.4 74.2#

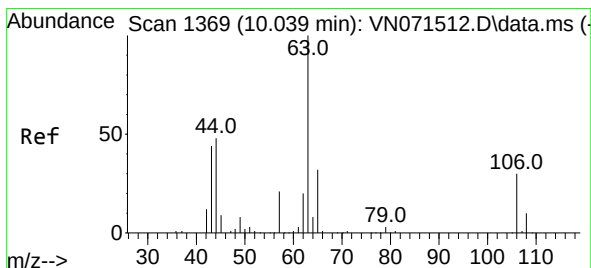
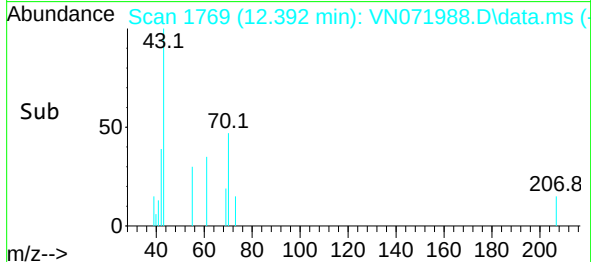
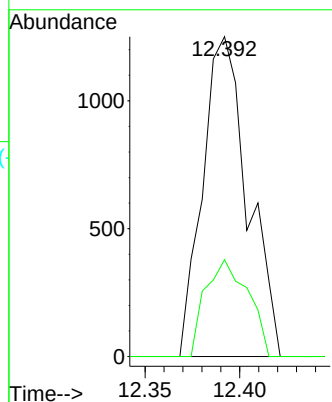
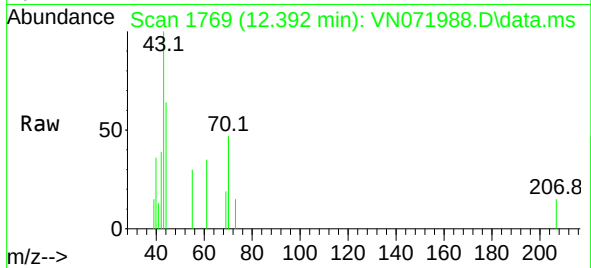




#47
n-amy1 Acetate
Concen: 0.310 ug/l
RT: 12.392 min Scan# 1769
Delta R.T. 0.011 min
Lab File: VN071988.D
Acq: 14 Apr 2022 11:02

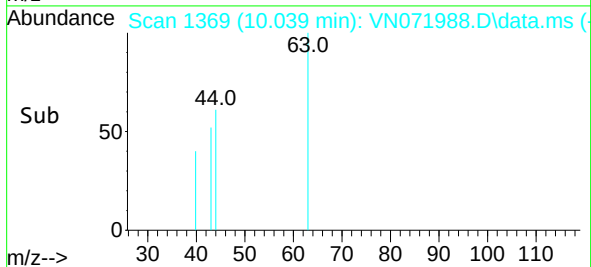
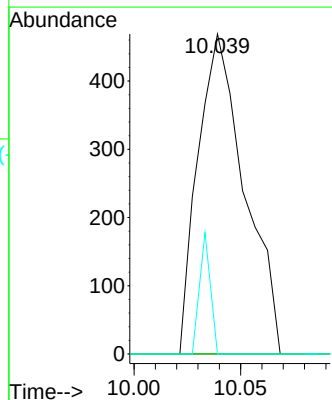
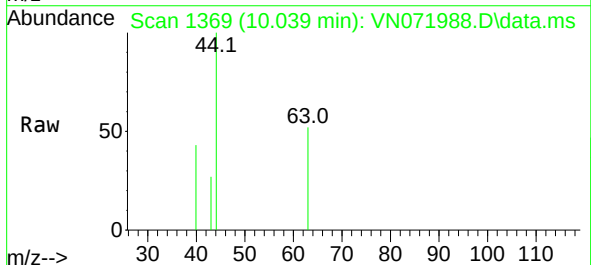
Instrument :
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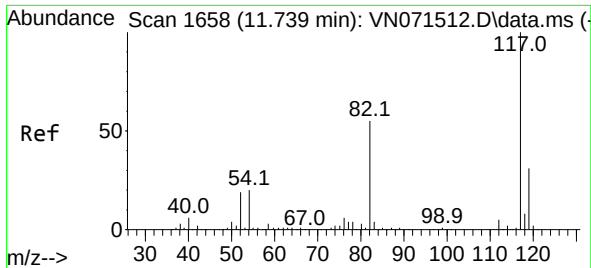
Tgt Ion: 43 Resp: 2071
Ion Ratio Lower Upper
43 100
55 28.7 19.0 28.6#



#55
2-Chloroethyl vinyl ether
Concen: 0.378 ug/l
RT: 10.039 min Scan# 1369
Delta R.T. -0.000 min
Lab File: VN071988.D
Acq: 14 Apr 2022 11:02

Tgt Ion: 63 Resp: 715
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.0#
106 0.0 23.2 34.8#

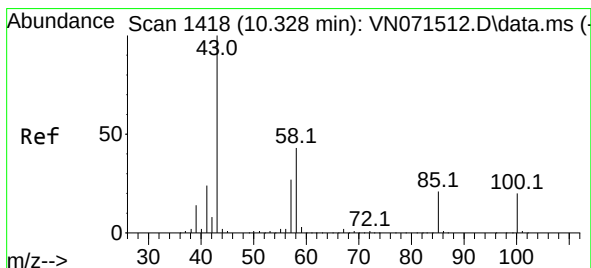
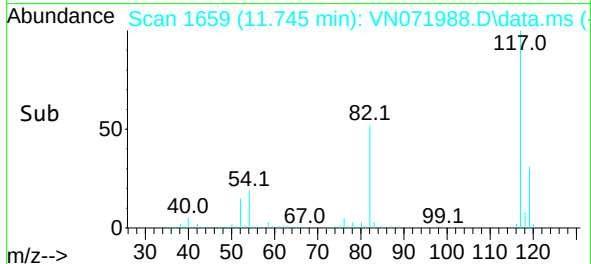
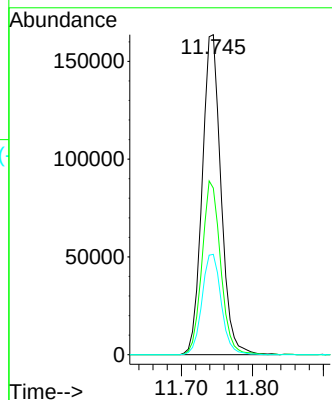
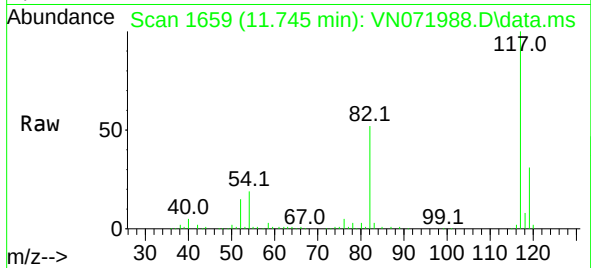




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.745 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN071988.D
Acq: 14 Apr 2022 11:02

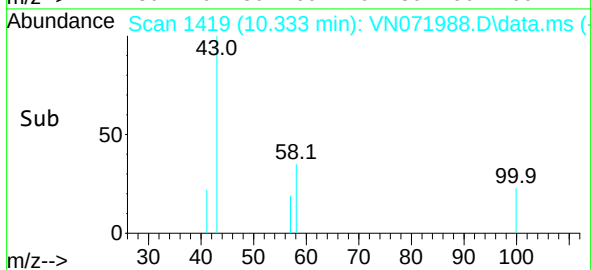
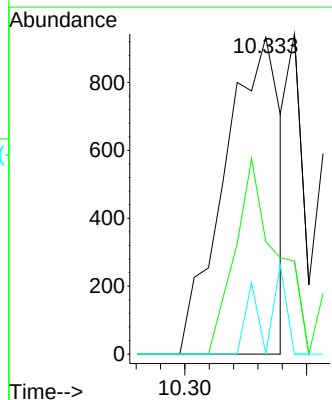
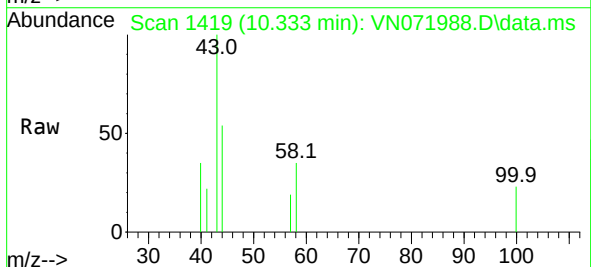
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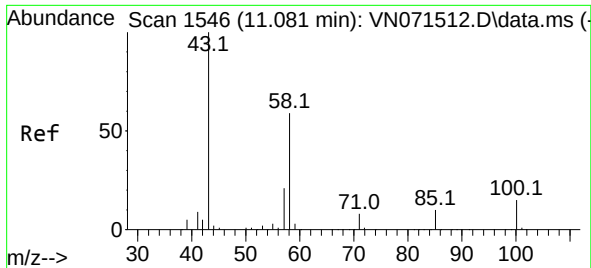
Tgt Ion:117 Resp: 301866
Ion Ratio Lower Upper
117 100
82 53.7 43.6 65.4
119 32.1 25.8 38.6



#58
4-Methyl-2-Pentanone
Concen: 0.259 ug/l
RT: 10.333 min Scan# 1419
Delta R.T. 0.006 min
Lab File: VN071988.D
Acq: 14 Apr 2022 11:02

Tgt Ion: 43 Resp: 1482
Ion Ratio Lower Upper
43 100
58 0.0 30.0 45.0#
85 6.3 15.0 22.6#

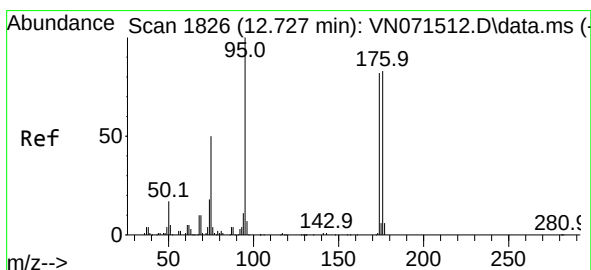
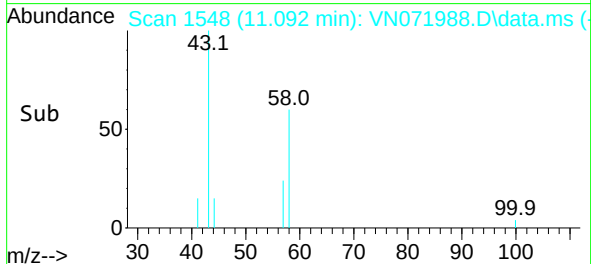
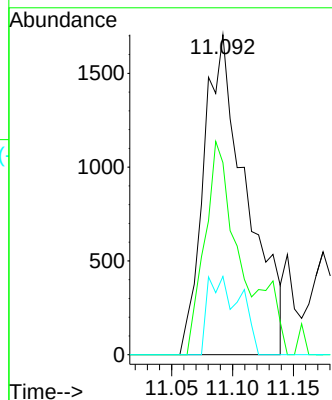
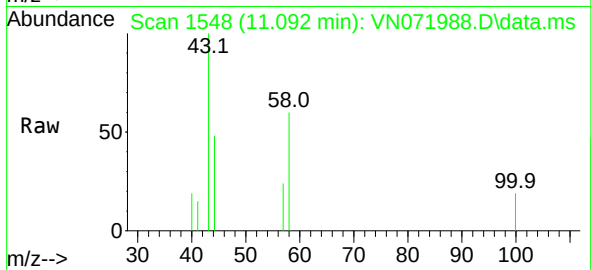




#59
2-Hexanone
Concen: 1.004 ug/l
RT: 11.092 min Scan# 11
Delta R.T. 0.011 min
Lab File: VN071988.D
Acq: 14 Apr 2022 11:02

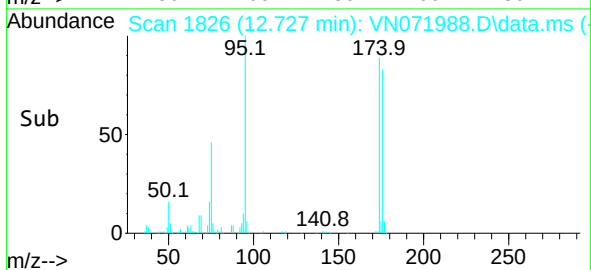
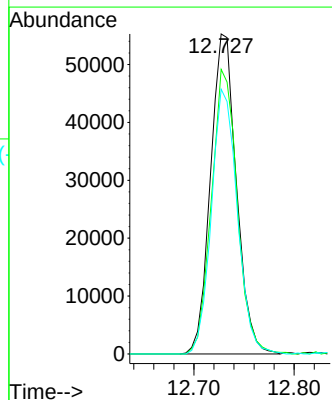
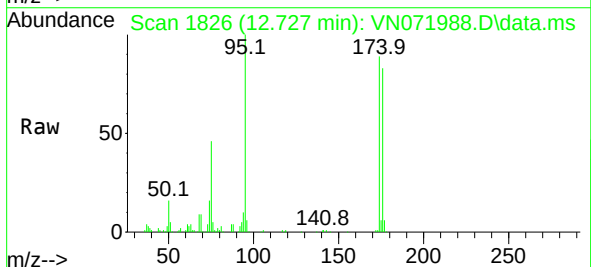
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBL01

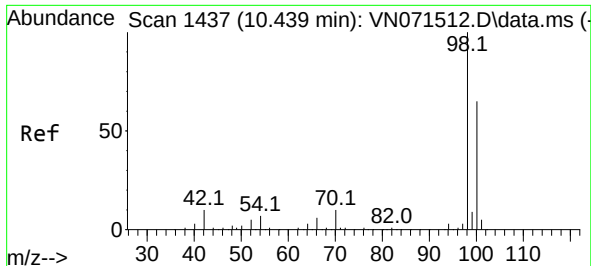
Tgt Ion: 43 Resp: 4199
Ion Ratio Lower Upper
43 100
58 47.1 42.2 63.2
57 11.8 15.0 22.4#



#60
4-Bromofluorobenzene
Concen: 22.176 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN071988.D
Acq: 14 Apr 2022 11:02

Tgt Ion: 95 Resp: 99257
Ion Ratio Lower Upper
95 100
174 88.5 62.9 94.3
176 82.7 61.0 91.4

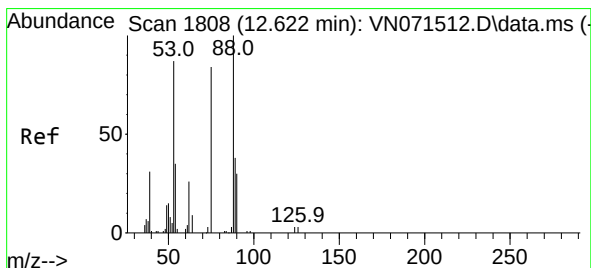
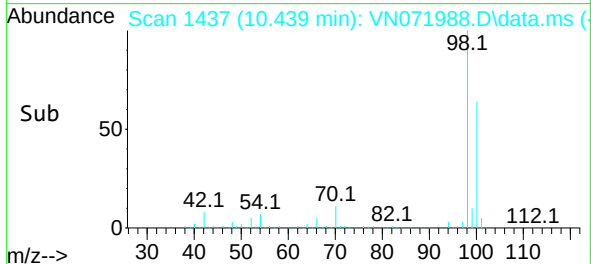
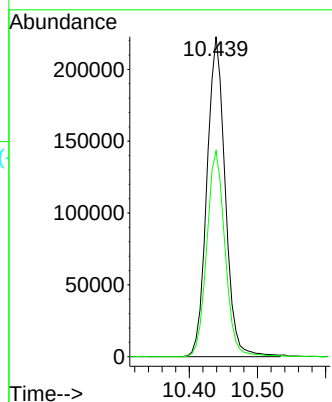
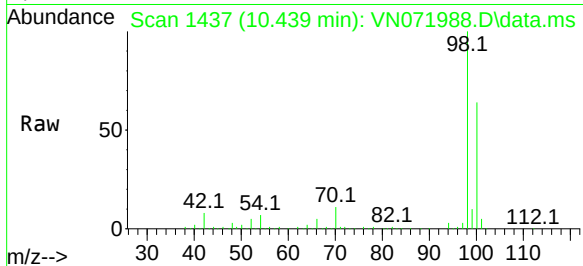




#63
Toluene-d8
Concen: 30.307 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VN071988.D
Acq: 14 Apr 2022 11:02

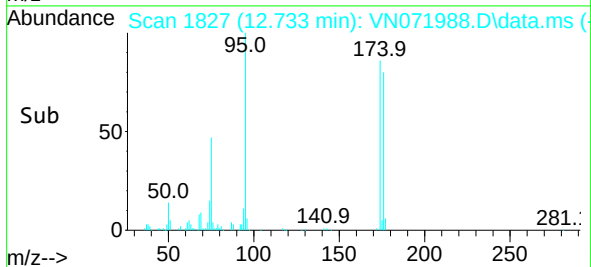
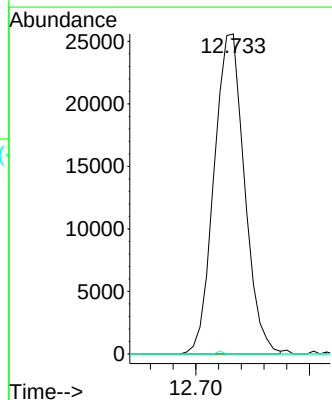
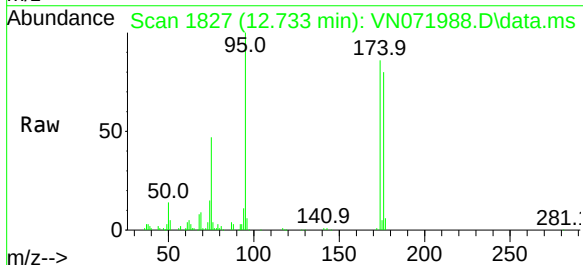
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBL01

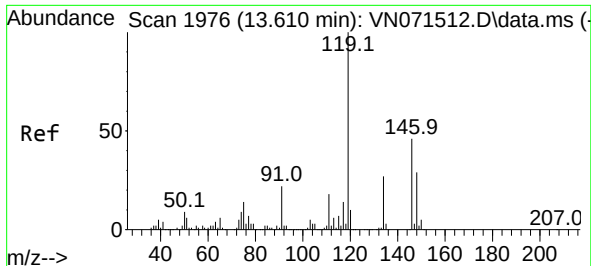
Tgt Ion: 98 Resp: 415293
Ion Ratio Lower Upper
98 100
100 64.0 50.6 76.0



#77
t-1,4-Dichloro-2-butene
Concen: 25.153 ug/l
RT: 12.733 min Scan# 1827
Delta R.T. 0.111 min
Lab File: VN071988.D
Acq: 14 Apr 2022 11:02

Tgt Ion: 75 Resp: 47670
Ion Ratio Lower Upper
75 100
53 0.0 51.8 155.5#
89 0.0 22.9 68.7#

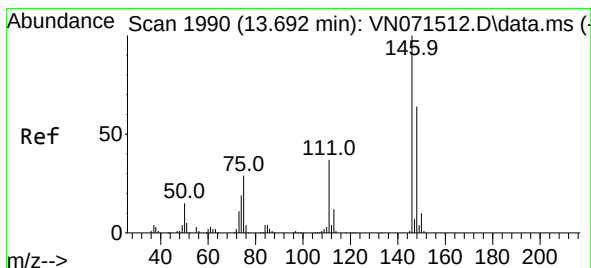
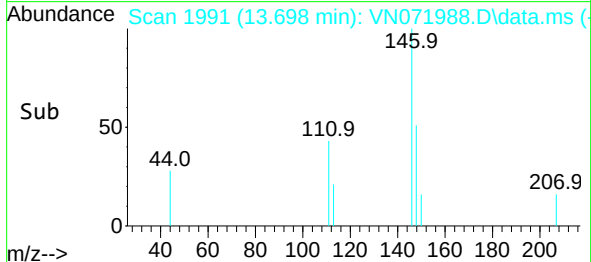
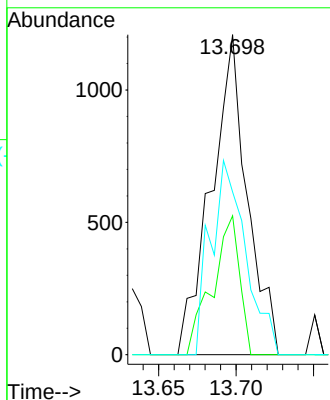
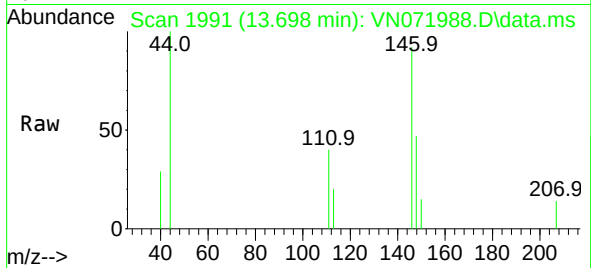




#83
 1,3-Dichlorobenzene
 Concen: 0.254 ug/l
 RT: 13.698 min Scan# 1991
 Delta R.T. 0.088 min
 Lab File: VN071988.D
 Acq: 14 Apr 2022 11:02

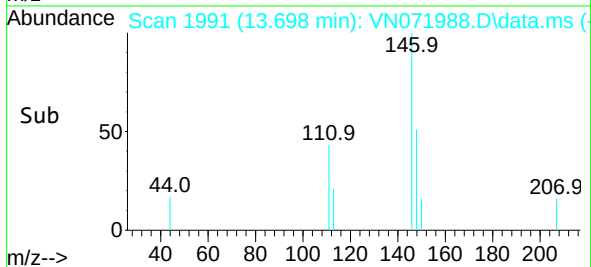
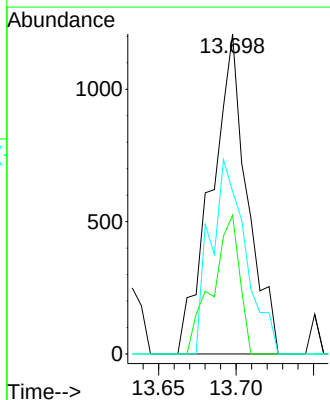
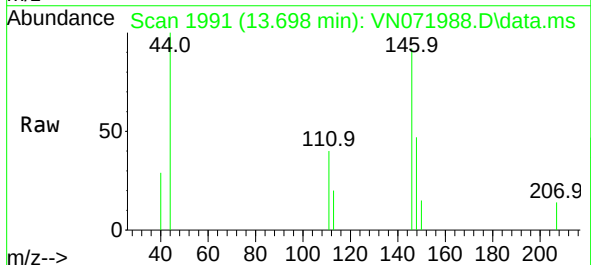
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0414WBL01

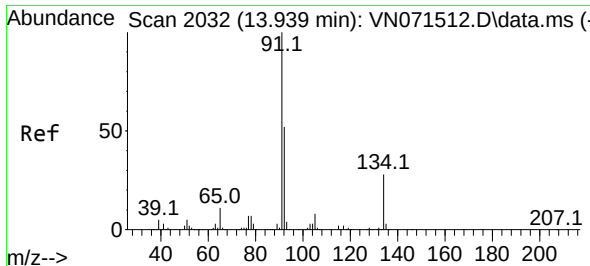
Tgt Ion:146	Resp:	1955
Ion	Ratio	Lower Upper
146	100	
111	32.7	20.8 62.2
148	59.2	31.4 94.3



#84
 1,4-Dichlorobenzene
 Concen: 0.266 ug/l
 RT: 13.698 min Scan# 1991
 Delta R.T. 0.006 min
 Lab File: VN071988.D
 Acq: 14 Apr 2022 11:02

Tgt Ion:146	Resp:	1955
Ion	Ratio	Lower Upper
146	100	
111	32.7	19.5 58.5
148	59.2	31.1 93.5

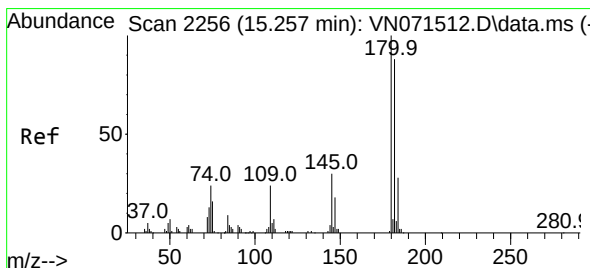
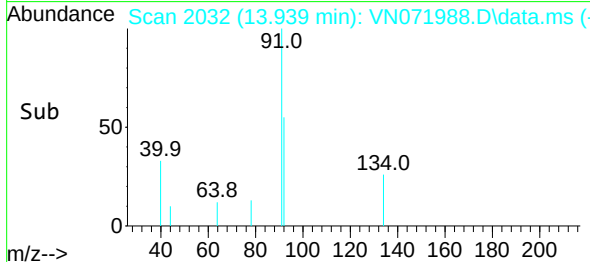
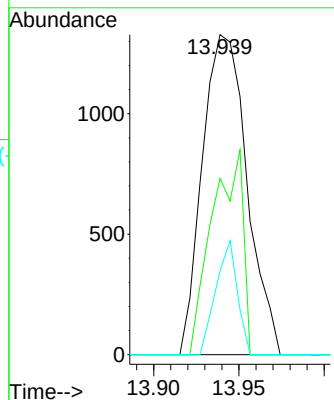
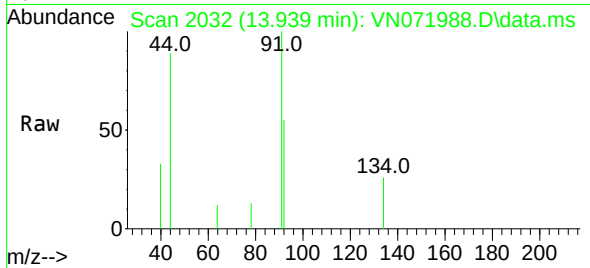




#85
n-Butylbenzene
Concen: 0.214 ug/l
RT: 13.939 min Scan# 2032
Delta R.T. -0.000 min
Lab File: VN071988.D
Acq: 14 Apr 2022 11:02

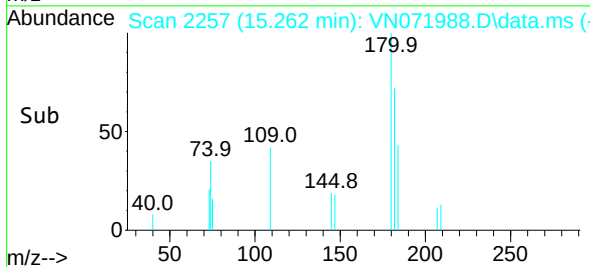
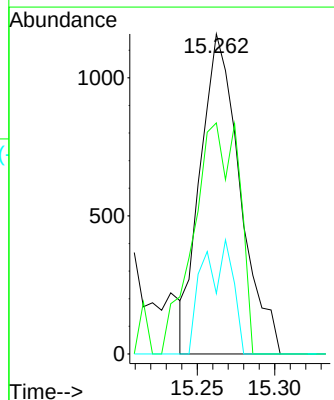
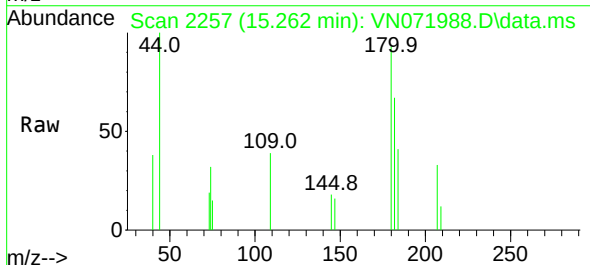
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBL01

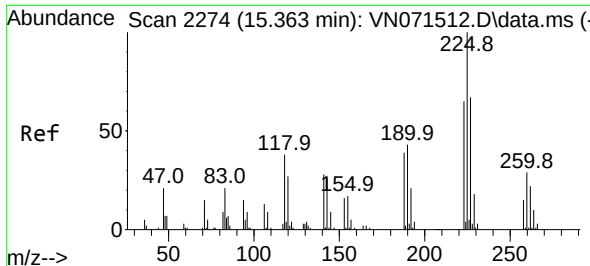
Tgt Ion: 91	Resp:	2422
Ion	Ratio	Lower Upper
91	100	
92	44.4	0.0 100.6
134	17.1	0.0 50.2



#89
1,2,4-Trichlorobenzene
Concen: 0.598 ug/l
RT: 15.262 min Scan# 2257
Delta R.T. 0.006 min
Lab File: VN071988.D
Acq: 14 Apr 2022 11:02

Tgt Ion: 180	Resp:	2061
Ion	Ratio	Lower Upper
180	100	
182	60.4	77.7 116.5#
145	11.4	26.6 39.8#

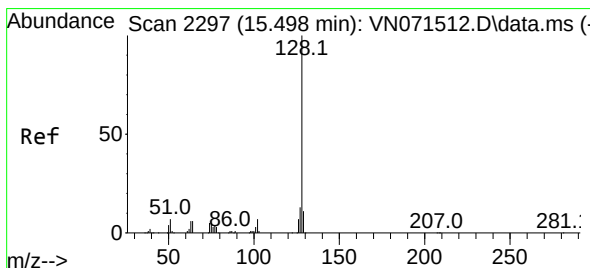
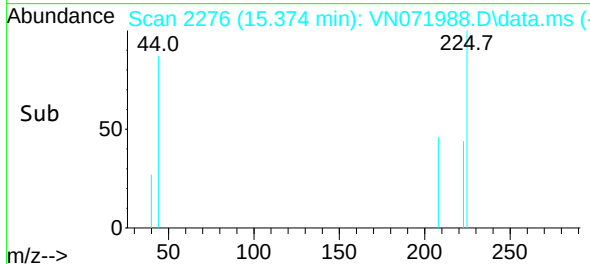
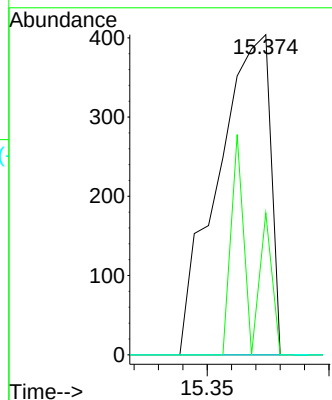
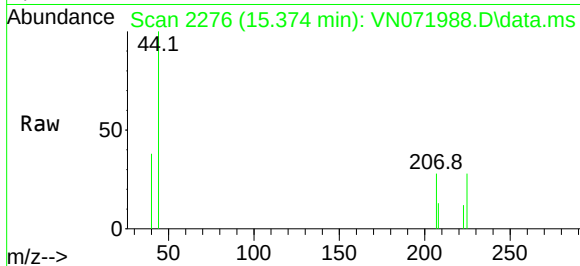




#90
Hexachlorobutadiene
Concen: 0.295 ug/l
RT: 15.374 min Scan# 21
Delta R.T. 0.011 min
Lab File: VN071988.D
Acq: 14 Apr 2022 11:02

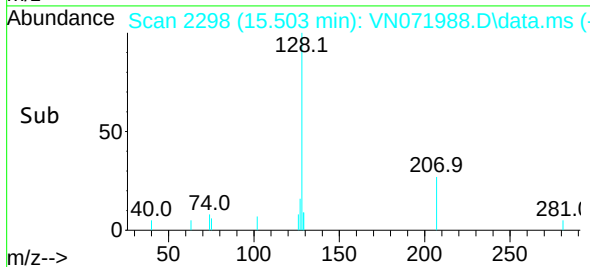
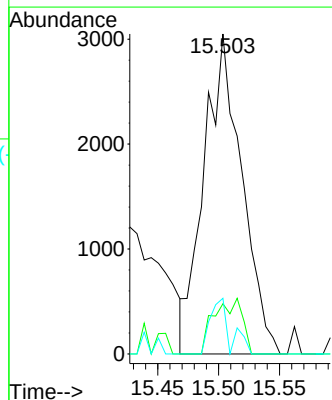
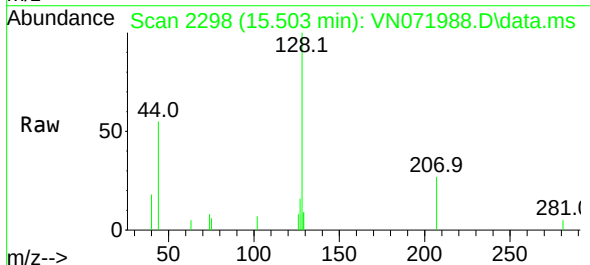
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBL01

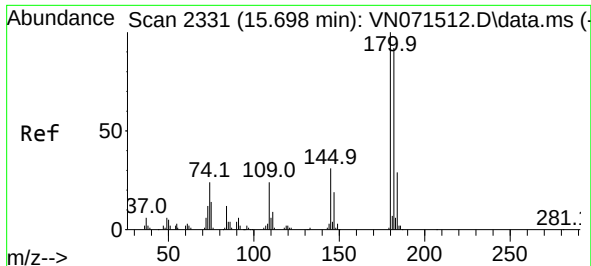
Tgt Ion	Ratio	Lower	Upper
225	100		
223	10.5	0.0	126.8
227	0.0	0.0	123.0



#91
Naphthalene
Concen: 7.373 ug/l
RT: 15.503 min Scan# 2298
Delta R.T. 0.005 min
Lab File: VN071988.D
Acq: 14 Apr 2022 11:02

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.7	16.1#
129	7.0	9.0	13.6#





#92

1,2,3-Trichlorobenzene

Concen: 0.826 ug/l

RT: 15.698 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN071988.D

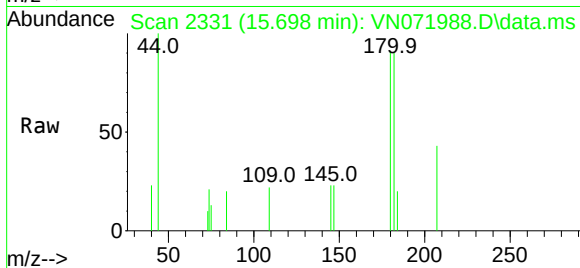
Acq: 14 Apr 2022 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBL01



Tgt Ion:180 Resp: 2789

Ion Ratio Lower Upper

180 100

182 77.8 0.0 190.0

145 25.3 0.0 67.8

