

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071421\
 Data File : VN067726.D
 Acq On : 13 Jul 2021 19:50
 Operator : JC/MD
 Sample : VN0714WBL01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 14 01:21:17 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N071421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 14 01:19:19 2021
 Response via : Initial Calibration

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

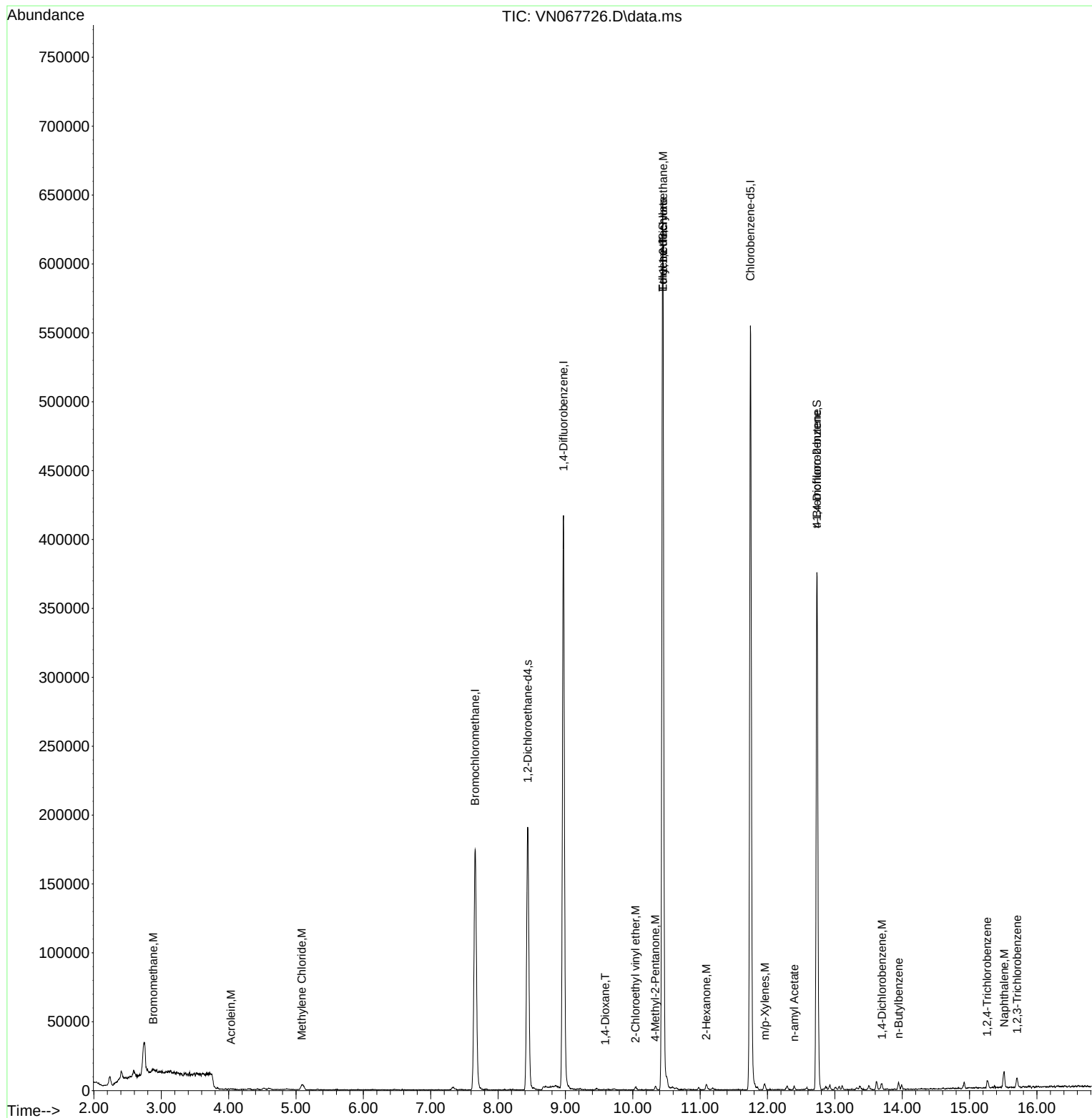
Internal Standards						
1) Bromochloromethane	7.659	128	61199	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	359687	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	316403	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	164393	33.250	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 110.833%#	
60) 4-Bromofluorobenzene	12.733	95	133875	26.053	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 86.833%	
63) Toluene-d8	10.446	98	450214	30.936	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 103.133%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.880	94	3292	0.651	ug/l	100
13) Acrolein	4.033	56	245	0.577	ug/l #	84
18) Methylene Chloride	5.087	84	1553	0.378	ug/l #	70
45) 1,4-Dioxane	9.590	88	57	0.785	ug/l #	1
47) n-amyl Acetate	12.396	43	1625	0.206	ug/l #	71
50) 1,1,2-Trichloroethane	10.451	97	16883	3.824	ug/l #	1
51) Ethyl methacrylate	10.446	69	1728	0.252	ug/l	72
55) 2-Chloroethyl vinyl ether	10.041	63	692	0.521	ug/l #	72
58) 4-Methyl-2-Pentanone	10.336	43	1961	0.361	ug/l #	77
59) 2-Hexanone	11.092	43	2944	0.773	ug/l #	64
67) m/p-Xylenes	11.961	106	1873	0.238	ug/l	80
77) t-1,4-Dichloro-2-butene	12.733	75	76031	47.700	ug/l #	4
84) 1,4-Dichlorobenzene	13.699	146	1896	0.227	ug/l	96
85) n-Butylbenzene	13.948	91	3598	0.266	ug/l	61
89) 1,2,4-Trichlorobenzene	15.260	180	1392	0.372	ug/l #	27
91) Naphthalene	15.515	128	10250	0.965	ug/l #	88
92) 1,2,3-Trichlorobenzene	15.705	180	2494	0.696	ug/l	70

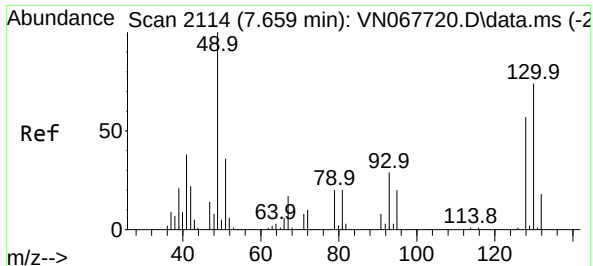
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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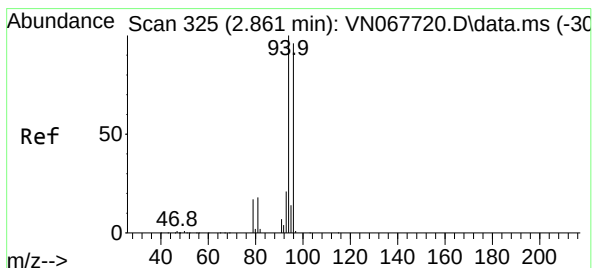
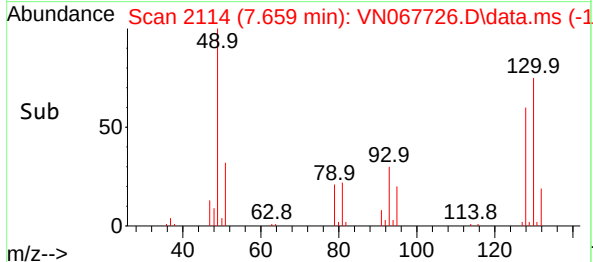
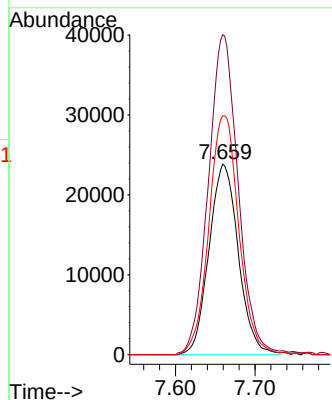
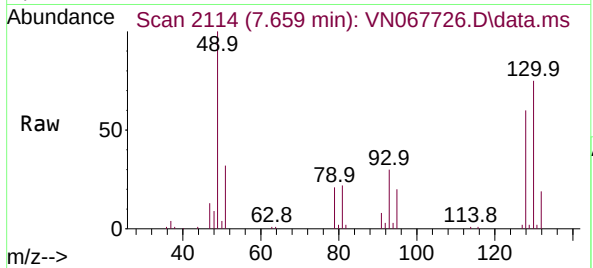




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.659 min Scan# 2114
Delta R.T. 0.000 min
Lab File: VN067726.D
Acq: 13 Jul 2021 19:50

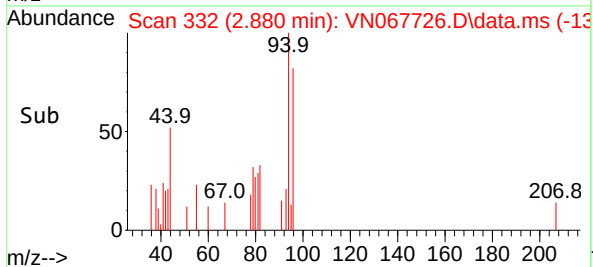
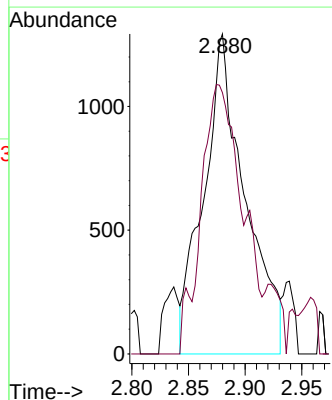
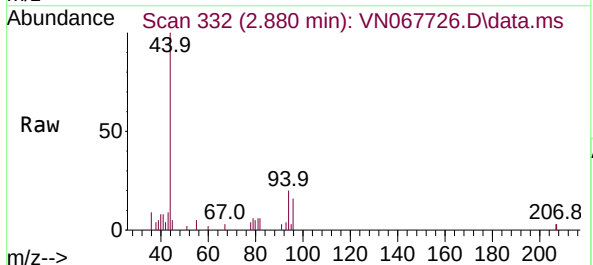
Instrument :
MSVOA_N
ClientSampled :

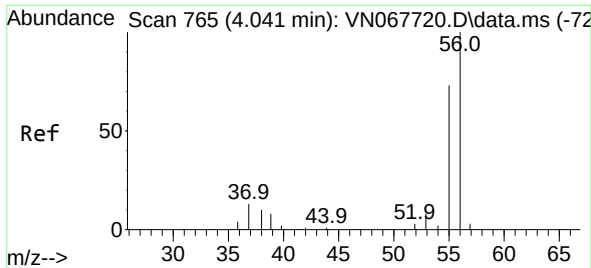
Tgt Ion:128 Resp: 61199
Ion Ratio Lower Upper
128 100
49 169.9 0.0 433.0
130 128.1 0.0 323.8



#5
Bromomethane
Concen: 0.651 ug/l
RT: 2.880 min Scan# 332
Delta R.T. 0.019 min
Lab File: VN067726.D
Acq: 13 Jul 2021 19:50

Tgt Ion: 94 Resp: 3292
Ion Ratio Lower Upper
94 100
96 96.0 76.9 115.3

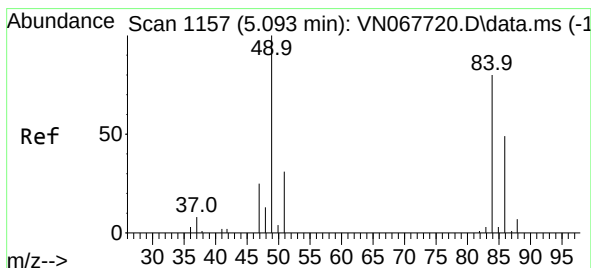
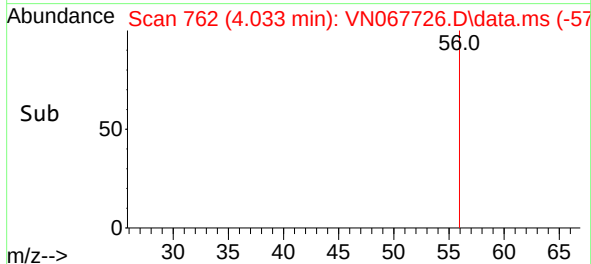
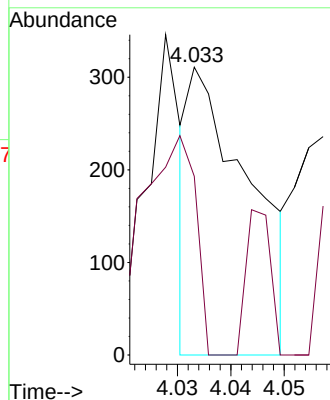
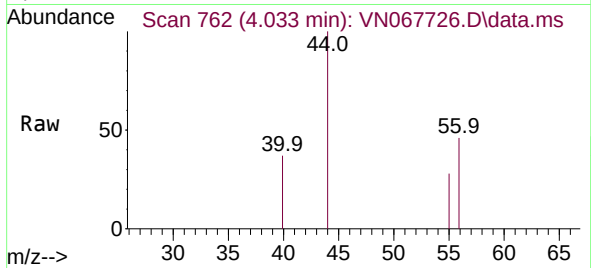




#13
Acrolein
Concen: 0.577 ug/l
RT: 4.033 min Scan# 762
Delta R.T. -0.008 min
Lab File: VN067726.D
Acq: 13 Jul 2021 19:50

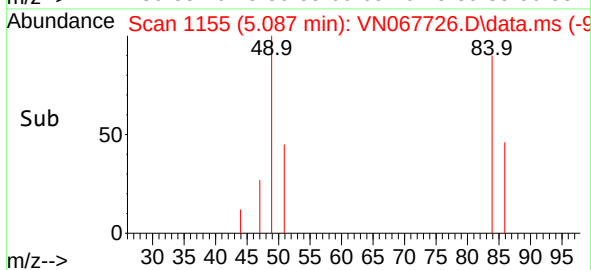
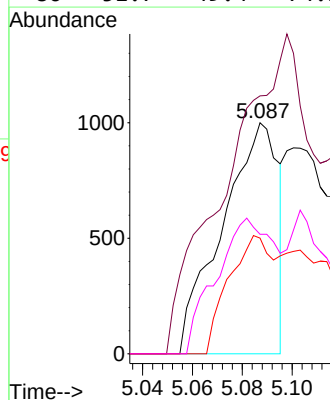
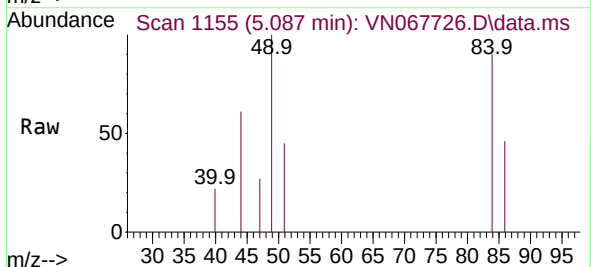
Instrument :
MSVOA_N
ClientSampled :

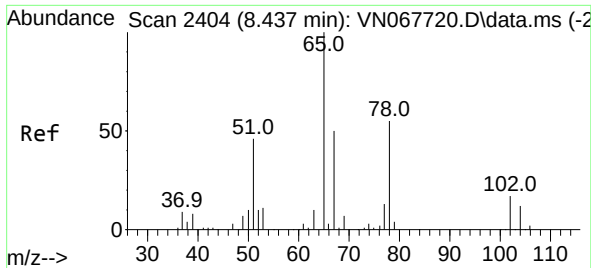
Tgt Ion: 56 Resp: 245
Ion Ratio Lower Upper
56 100
55 20.4 0.2 0.2#



#18
Methylene Chloride
Concen: 0.378 ug/l
RT: 5.087 min Scan# 1155
Delta R.T. -0.006 min
Lab File: VN067726.D
Acq: 13 Jul 2021 19:50

Tgt Ion: 84 Resp: 1553
Ion Ratio Lower Upper
84 100
49 77.3 100.5 150.7#
51 50.1 30.7 46.1#
86 51.7 49.4 74.2



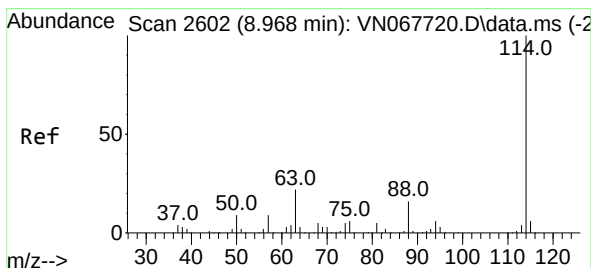
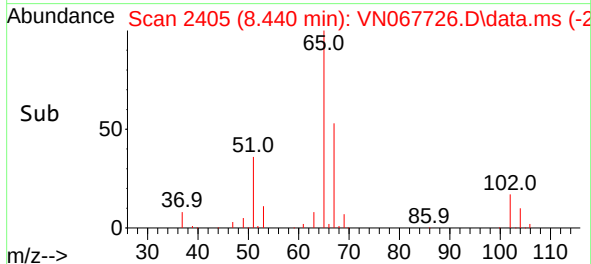
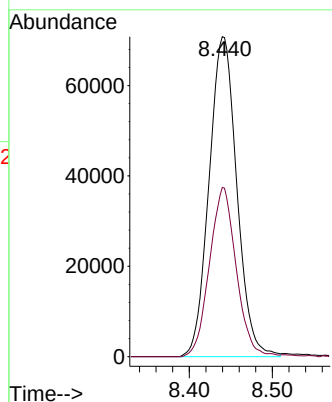
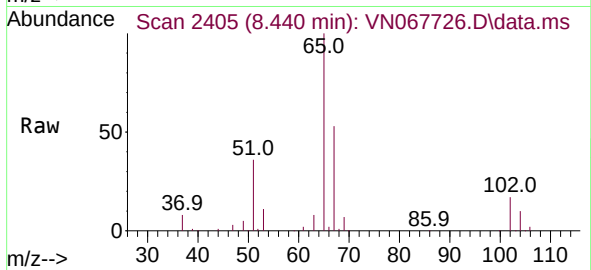


#27

1,2-Dichloroethane-d4
Concen: 33.250 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VN067726.D
Acq: 13 Jul 2021 19:50

Instrument :
MSVOA_N
ClientSampleId :

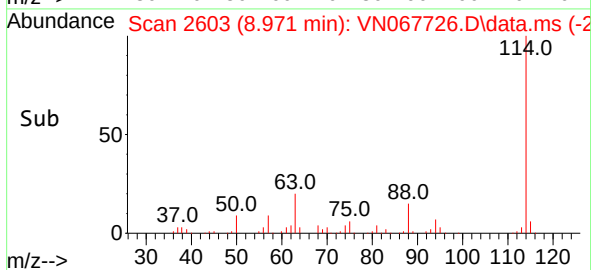
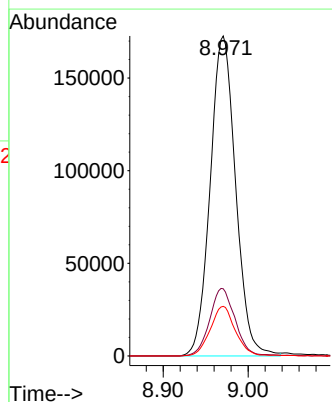
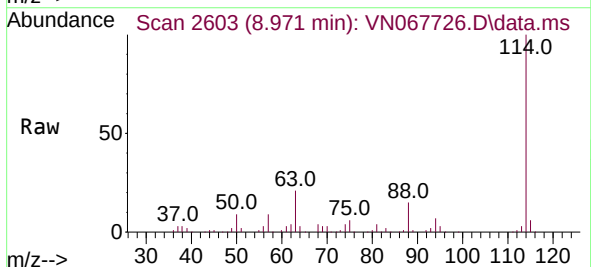
Tgt Ion: 65 Resp: 164393
Ion Ratio Lower Upper
65 100
67 50.6 40.6 60.8

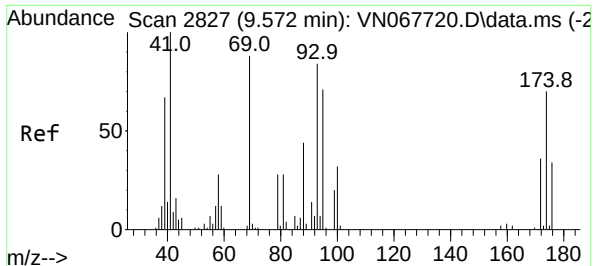


#28

1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.003 min
Lab File: VN067726.D
Acq: 13 Jul 2021 19:50

Tgt Ion: 114 Resp: 359687
Ion Ratio Lower Upper
114 100
63 21.1 17.2 25.8
88 15.3 12.4 18.6

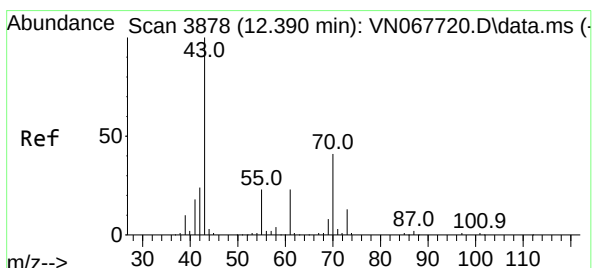
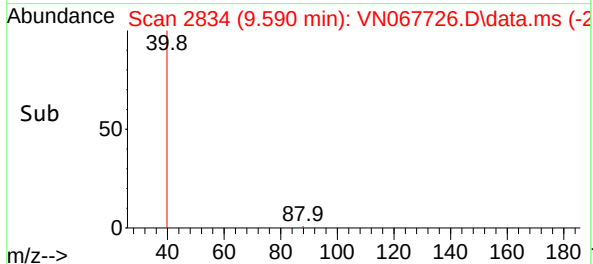
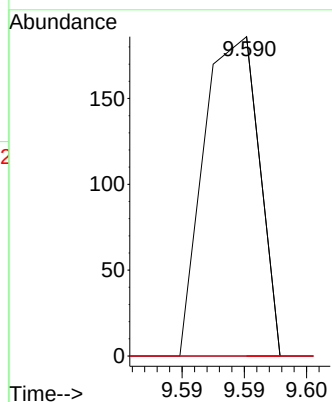
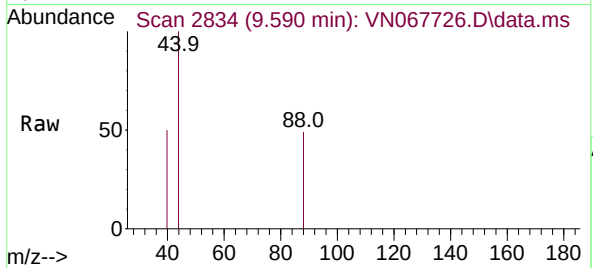




#45
1,4-Dioxane
Concen: 0.785 ug/l
RT: 9.590 min Scan# 2834
Delta R.T. 0.019 min
Lab File: VN067726.D
Acq: 13 Jul 2021 19:50

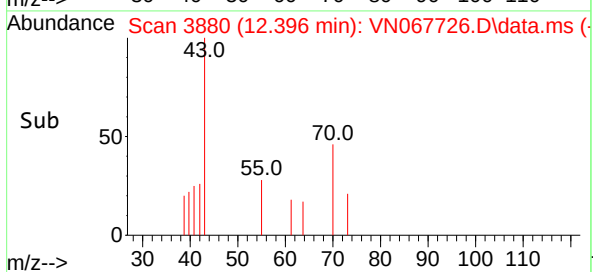
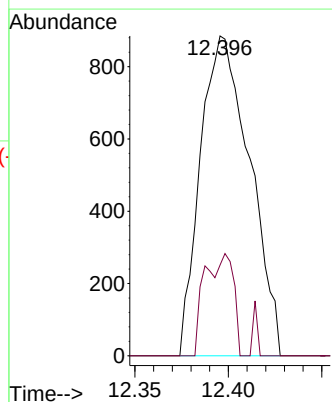
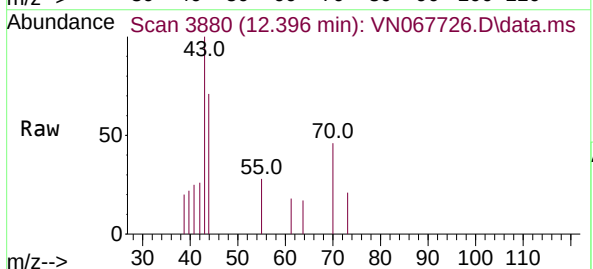
Instrument :
MSVOA_N
ClientSampled :

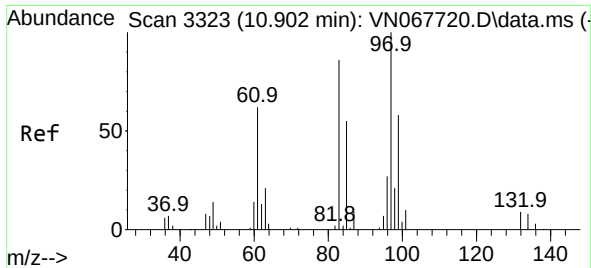
Tgt Ion: 88 Resp: 57
Ion Ratio Lower Upper
88 100
43 794.7 26.9 40.3#
58 0.0 52.2 78.4#



#47
n-amy1 Acetate
Concen: 0.206 ug/l
RT: 12.396 min Scan# 3880
Delta R.T. 0.005 min
Lab File: VN067726.D
Acq: 13 Jul 2021 19:50

Tgt Ion: 43 Resp: 1625
Ion Ratio Lower Upper
43 100
55 9.8 19.0 28.6#

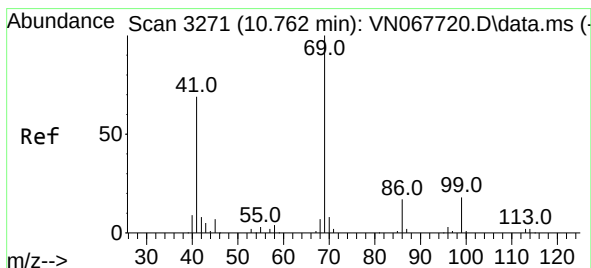
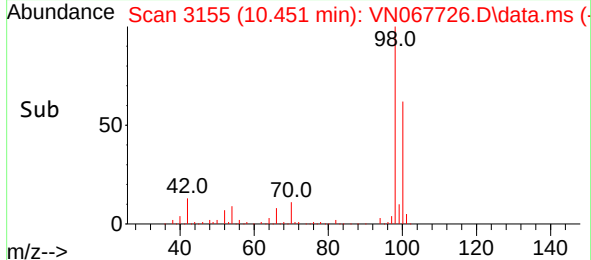
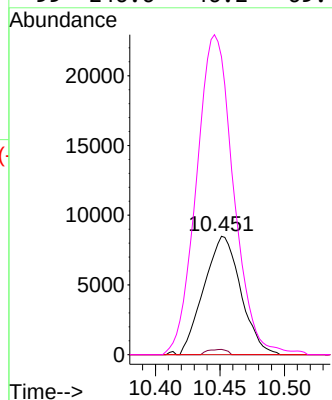
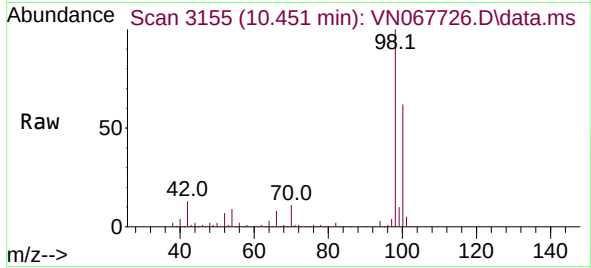




#50
1,1,2-Trichloroethane
Concen: 3.824 ug/l
RT: 10.451 min Scan# 3155
Delta R.T. -0.451 min
Lab File: VN067726.D
Acq: 13 Jul 2021 19:50

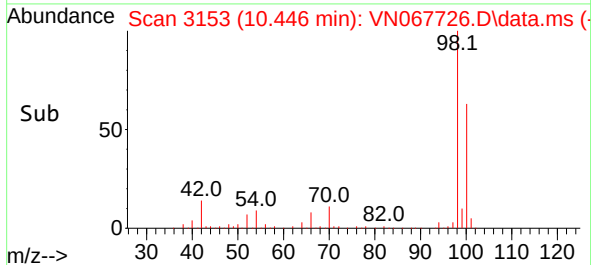
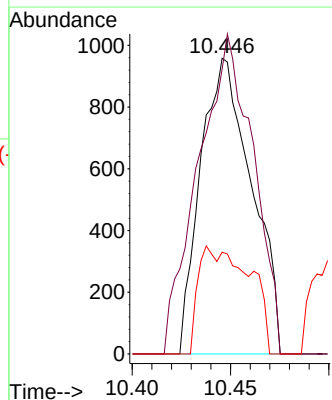
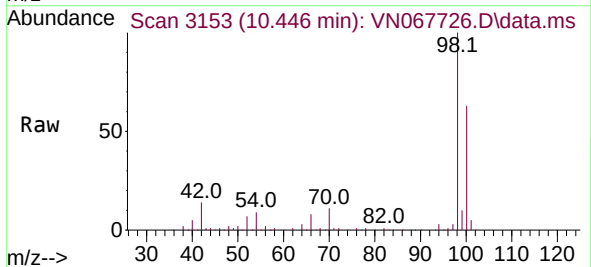
Instrument :
MSVOA_N
ClientSampleId :

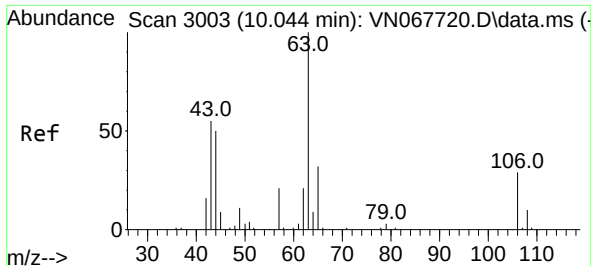
Tgt Ion	Ratio	Lower	Upper
97	100		
83	4.5	69.0	103.4#
85	0.0	43.8	65.8#
99	246.6	46.2	69.4#



#51
Ethyl methacrylate
Concen: 0.252 ug/l
RT: 10.446 min Scan# 3153
Delta R.T. -0.317 min
Lab File: VN067726.D
Acq: 13 Jul 2021 19:50

Tgt Ion	Ratio	Lower	Upper
69	100		
41	96.3	34.3	102.9
39	34.4	23.7	71.1

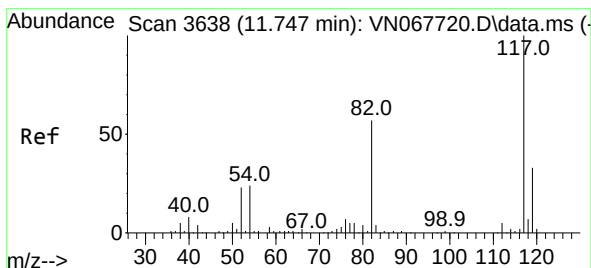
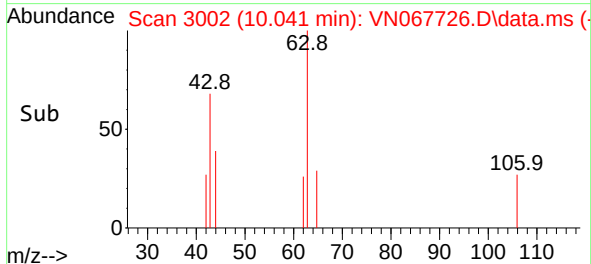
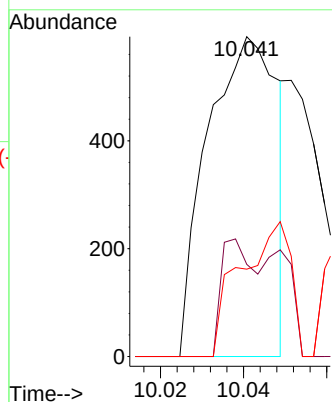
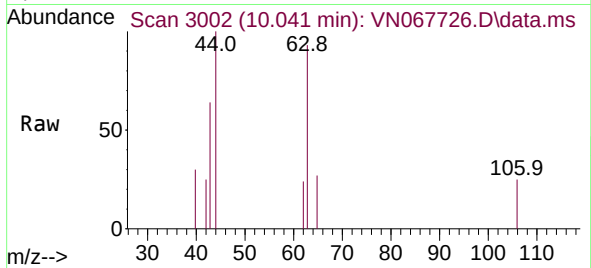




#55
2-Chloroethyl vinyl ether
Concen: 0.521 ug/l
RT: 10.041 min Scan# 3002
Delta R.T. -0.003 min
Lab File: VN067726.D
Acq: 13 Jul 2021 19:50

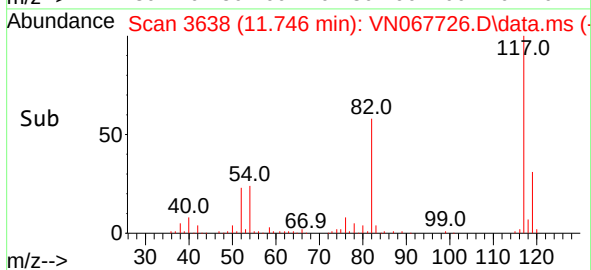
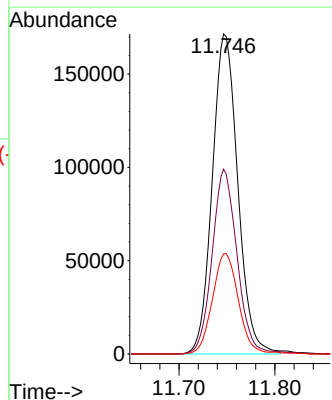
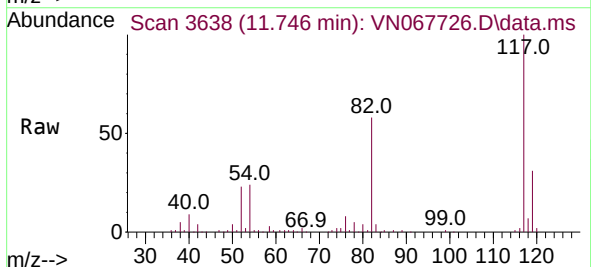
Instrument :
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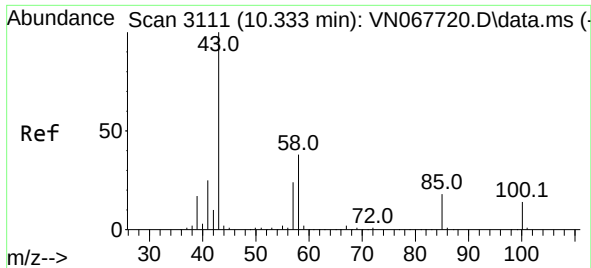
Tgt Ion: 63 Resp: 692
Ion Ratio Lower Upper
63 100
65 17.5 25.5 38.3#
106 11.1 22.1 33.1#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. -0.000 min
Lab File: VN067726.D
Acq: 13 Jul 2021 19:50

Tgt Ion: 117 Resp: 316403
Ion Ratio Lower Upper
117 100
82 56.6 45.4 68.0
119 31.8 25.7 38.5

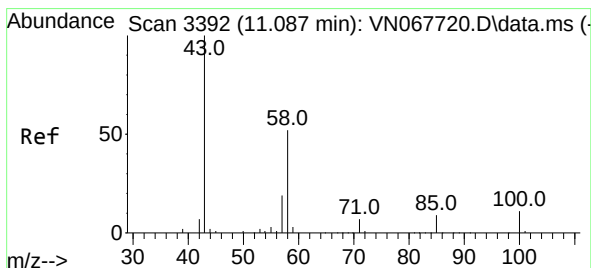
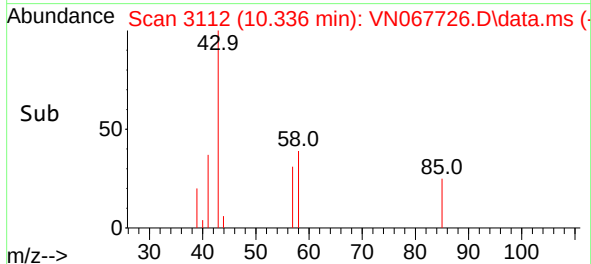
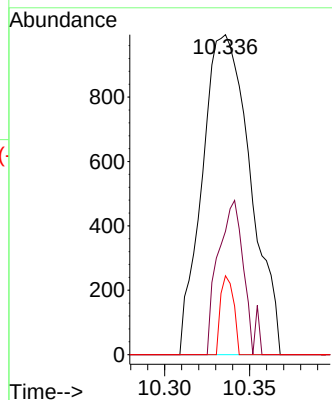
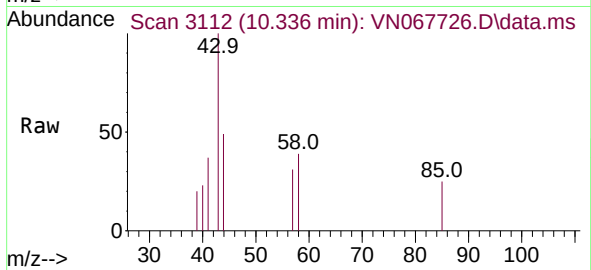




#58
4-Methyl-2-Pentanone
Concen: 0.361 ug/l
RT: 10.336 min Scan# 3112
Delta R.T. 0.003 min
Lab File: VN067726.D
Acq: 13 Jul 2021 19:50

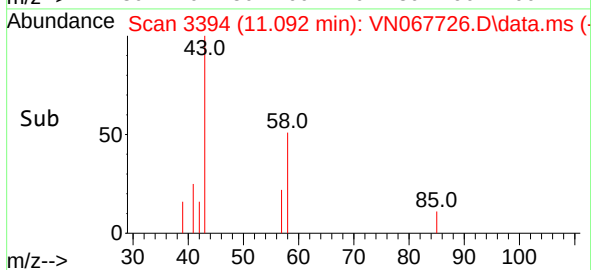
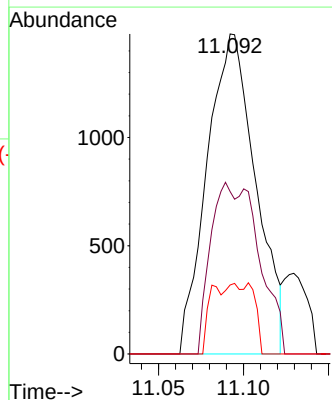
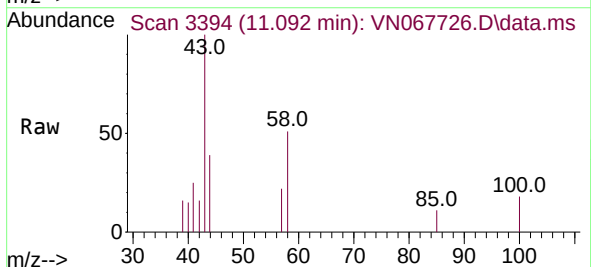
Instrument :
MSVOA_N
ClientSampled :

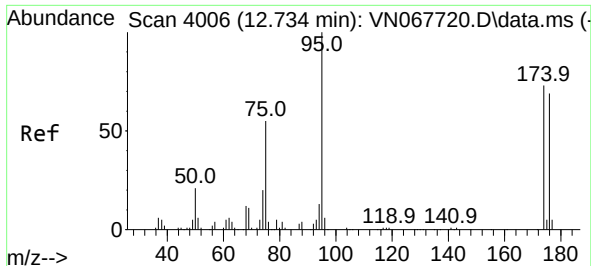
Tgt Ion:	43	Resp:	1961
Ion	Ratio	Lower	Upper
43	100		
58	24.6	29.9	44.9#
85	6.6	14.1	21.1#



#59
2-Hexanone
Concen: 0.773 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN067726.D
Acq: 13 Jul 2021 19:50

Tgt Ion:	43	Resp:	2944
Ion	Ratio	Lower	Upper
43	100		
58	26.9	41.5	62.3#
57	2.1	15.1	22.7#

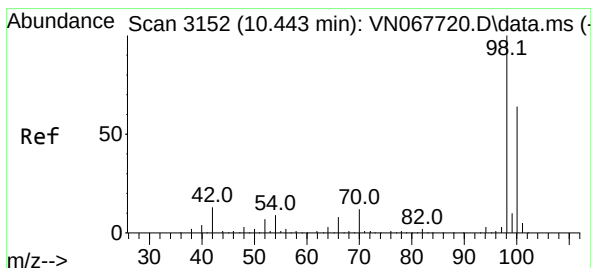
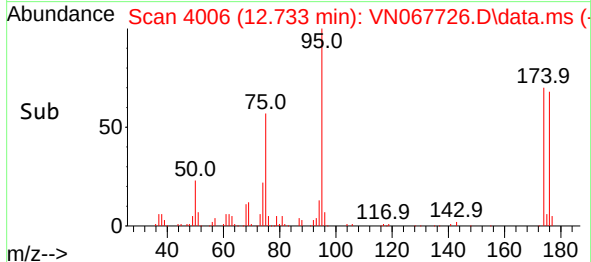
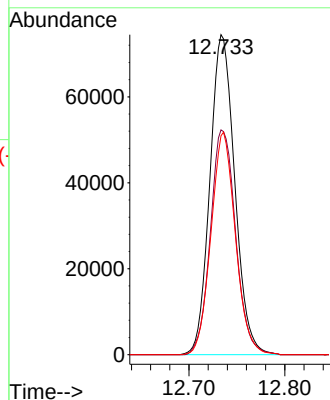
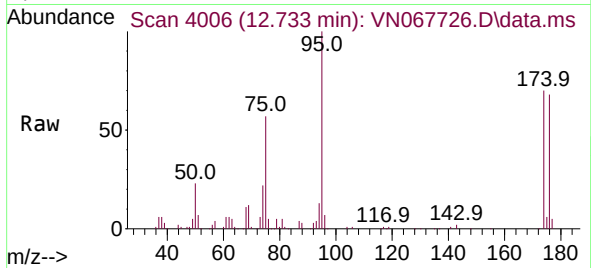




#60
4-Bromofluorobenzene
Concen: 26.053 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN067726.D
Acq: 13 Jul 2021 19:50

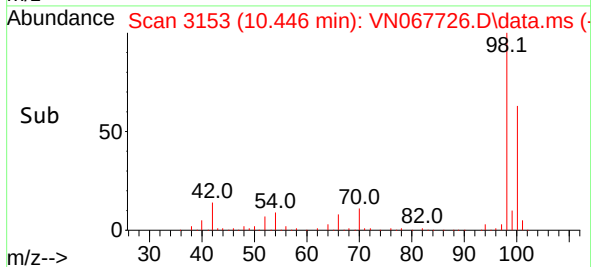
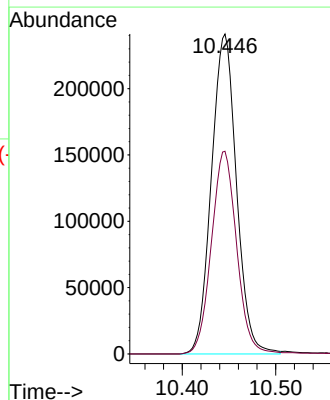
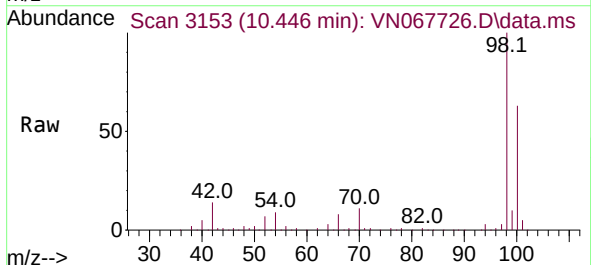
Instrument :
MSVOA_N
ClientSampleId :

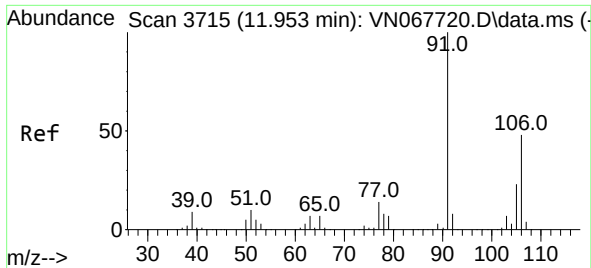
Tgt Ion: 95 Resp: 133875
Ion Ratio Lower Upper
95 100
174 71.6 57.1 85.7
176 68.5 54.6 81.8



#63
Toluene-d8
Concen: 30.936 ug/l
RT: 10.446 min Scan# 3153
Delta R.T. 0.003 min
Lab File: VN067726.D
Acq: 13 Jul 2021 19:50

Tgt Ion: 98 Resp: 450214
Ion Ratio Lower Upper
98 100
100 64.0 51.0 76.4

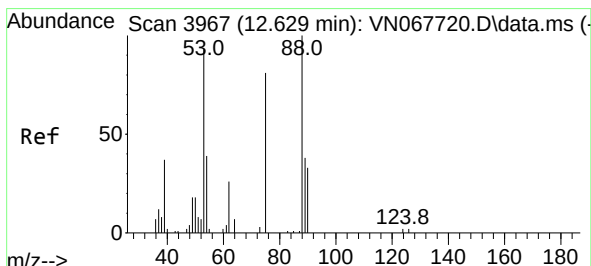
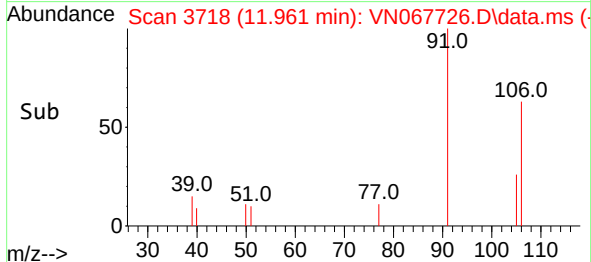
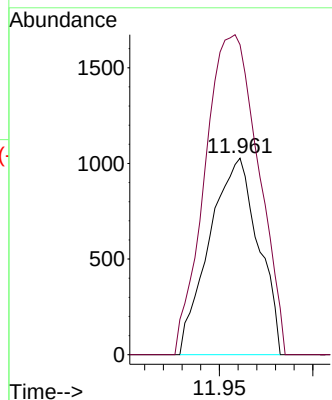
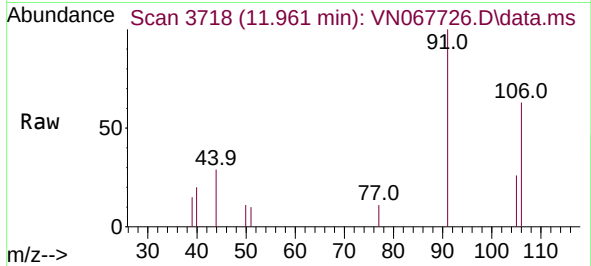




#67
m/p-Xylenes
Concen: 0.238 ug/l
RT: 11.961 min Scan# 3718
Delta R.T. 0.008 min
Lab File: VN067726.D
Acq: 13 Jul 2021 19:50

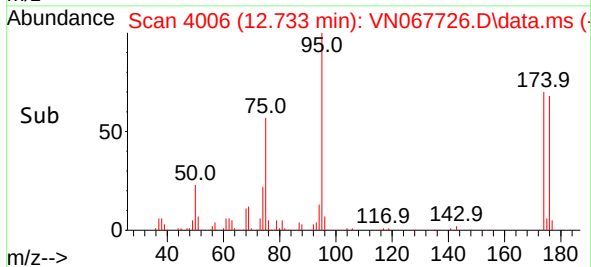
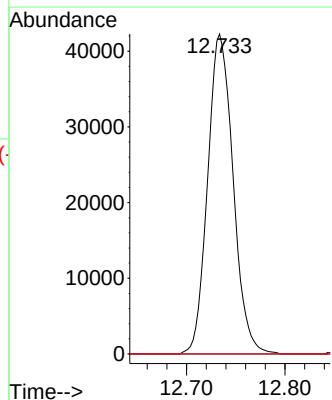
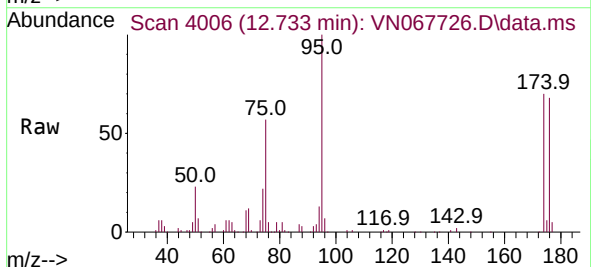
Instrument :
MSVOA_N
ClientSampleId :

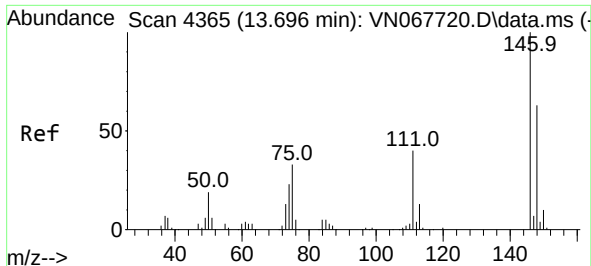
Tgt Ion:106 Resp: 1873
Ion Ratio Lower Upper
106 100
91 177.6 166.6 250.0



#77
t-1,4-Dichloro-2-butene
Concen: 47.700 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.104 min
Lab File: VN067726.D
Acq: 13 Jul 2021 19:50

Tgt Ion: 75 Resp: 76031
Ion Ratio Lower Upper
75 100
53 0.0 57.0 171.0#
89 0.0 24.7 74.1#

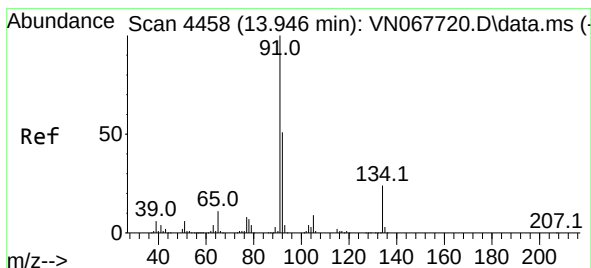
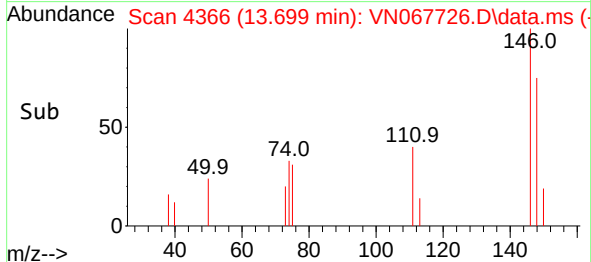
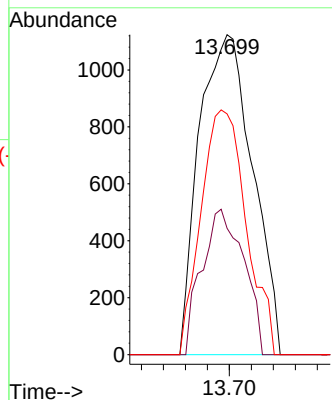
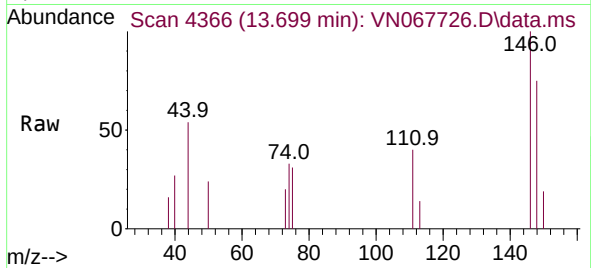




#84
1,4-Dichlorobenzene
Concen: 0.227 ug/l
RT: 13.699 min Scan# 4366
Delta R.T. 0.003 min
Lab File: VN067726.D
Acq: 13 Jul 2021 19:50

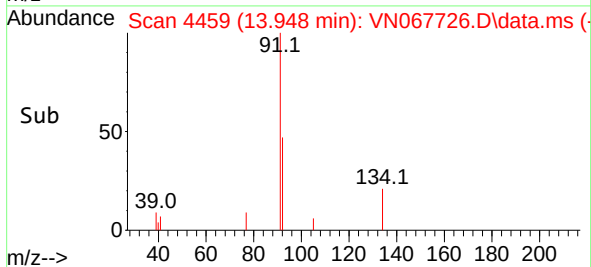
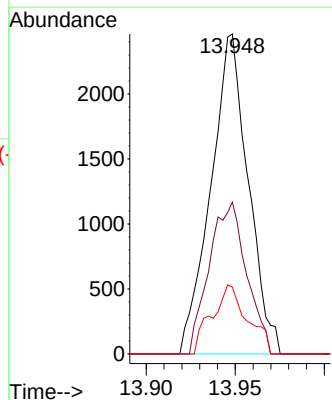
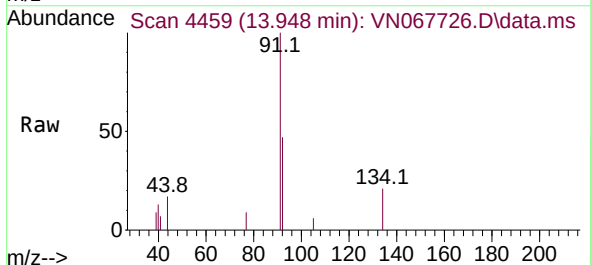
Instrument :
MSVOA_N
ClientSampled :

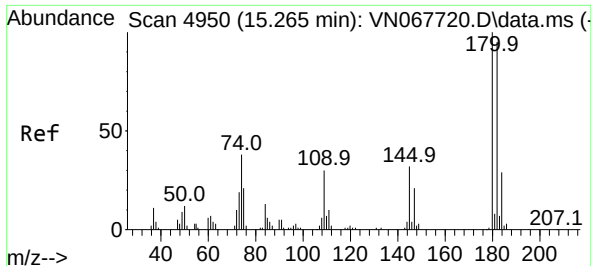
Tgt Ion:146 Resp: 1896
Ion Ratio Lower Upper
146 100
111 35.8 20.0 59.9
148 64.9 31.8 95.3



#85
n-Butylbenzene
Concen: 0.266 ug/l
RT: 13.948 min Scan# 4459
Delta R.T. 0.003 min
Lab File: VN067726.D
Acq: 13 Jul 2021 19:50

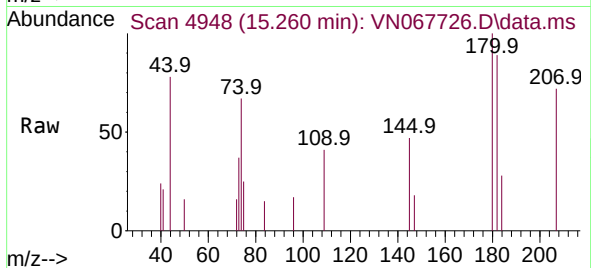
Tgt Ion: 91 Resp: 3598
Ion Ratio Lower Upper
91 100
92 20.9 0.0 102.6
134 9.2 0.0 48.6



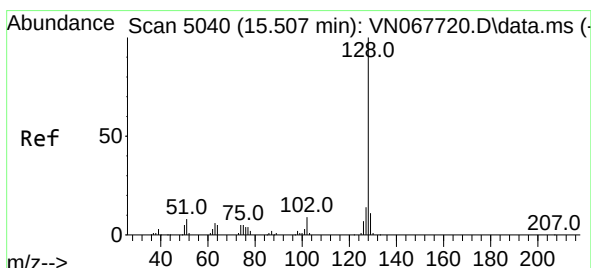
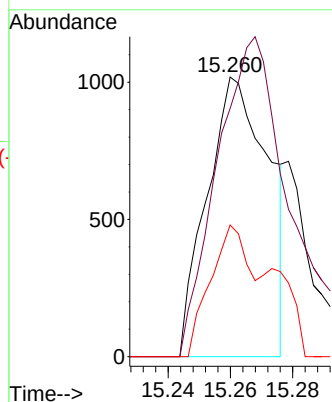
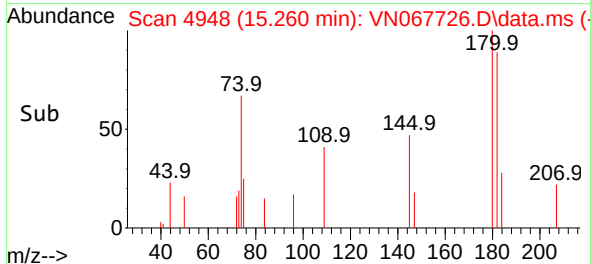


#89
1,2,4-Trichlorobenzene
Concen: 0.372 ug/l
RT: 15.260 min Scan# 4948
Delta R.T. -0.006 min
Lab File: VN067726.D
Acq: 13 Jul 2021 19:50

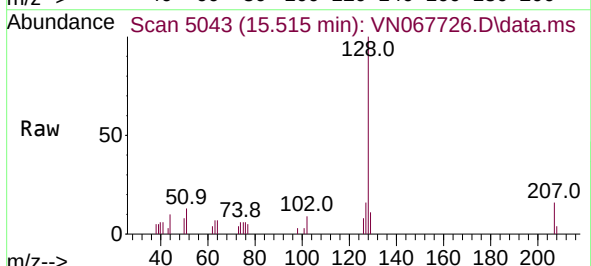
Instrument :
MSVOA_N
ClientSampled :



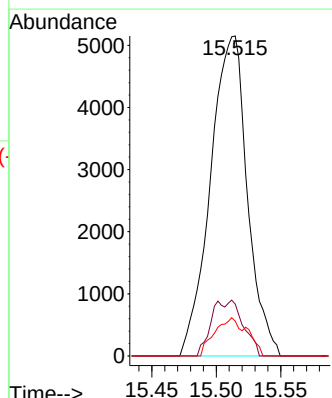
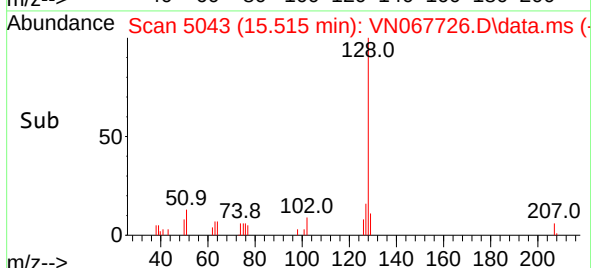
Tgt Ion:180 Resp: 1392
Ion Ratio Lower Upper
180 100
182 0.0 74.5 111.7#
145 30.3 25.4 38.0

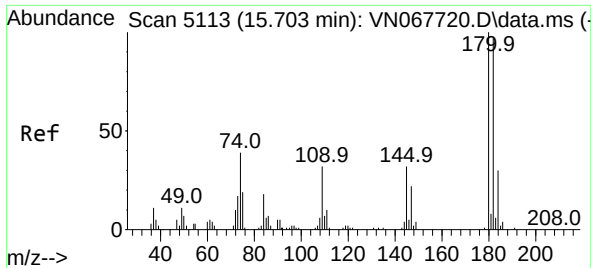


#91
Naphthalene
Concen: 0.965 ug/l
RT: 15.515 min Scan# 5043
Delta R.T. 0.008 min
Lab File: VN067726.D
Acq: 13 Jul 2021 19:50



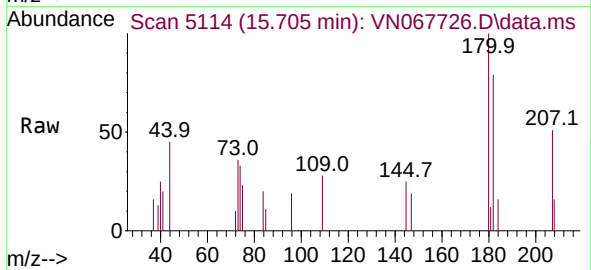
Tgt Ion:128 Resp: 10250
Ion Ratio Lower Upper
128 100
127 7.1 10.9 16.3#
129 8.1 8.7 13.1#





#92
 1,2,3-Trichlorobenzene
 Concen: 0.696 ug/l
 RT: 15.705 min Scan# 5114
 Delta R.T. 0.003 min
 Lab File: VN067726.D
 Acq: 13 Jul 2021 19:50

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:180 Resp: 2494
 Ion Ratio Lower Upper
 180 100
 182 74.5 0.0 190.8
 145 2.4 0.0 68.2

