

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071421\
 Data File : VN067742.D
 Acq On : 14 Jul 2021 14:49
 Operator : JC/MD
 Sample : M2975-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 15 06:16:05 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

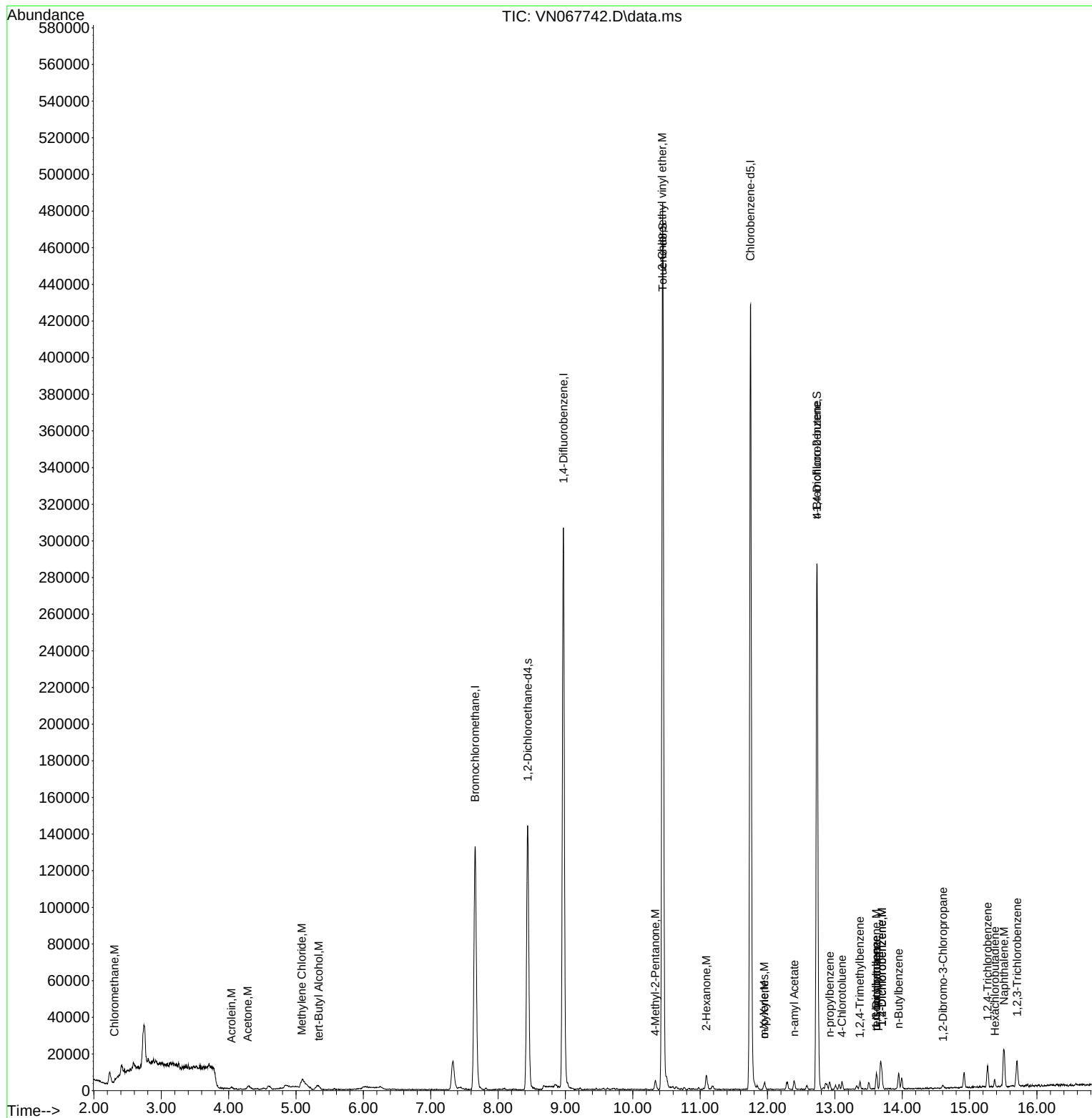
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.659	128	46142	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	267578	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	245484	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	122254	32.795	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	109.333%
60) 4-Bromofluorobenzene	12.734	95	103559	25.976	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	86.600%
63) Toluene-d8	10.443	98	337726	29.911	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.700%
Target Compounds						
					Qvalue	
3) Chloromethane	2.303	50	766	0.260	ug/l #	81
13) Acrolein	4.041	56	323	1.009	ug/l #	57
15) Acetone	4.283	58	223	0.670	ug/l #	62
18) Methylene Chloride	5.087	84	690	0.223	ug/l #	65
23) tert-Butyl Alcohol	5.337	59	1030	2.080	ug/l #	100
47) n-amyl Acetate	12.398	43	3131	0.534	ug/l #	90
55) 2-Chloroethyl vinyl ether	10.438	63	240	0.243	ug/l #	1
58) 4-Methyl-2-Pentanone	10.336	43	3553	0.843	ug/l #	90
59) 2-Hexanone	11.092	43	6373	2.156	ug/l #	85
67) m/p-Xylenes	11.953	106	1397	0.229	ug/l	86
68) o-Xylene	11.953	106	1397	0.232	ug/l	93
74) n-propylbenzene	12.924	91	3588	0.202	ug/l	82
77) t-1,4-Dichloro-2-butene	12.734	75	59518	48.128	ug/l #	4
78) 4-Chlorotoluene	13.106	91	3109	0.292	ug/l	78
79) tert-butylbenzene	13.613	119	3127	0.285	ug/l	51
80) 1,2,4-Trimethylbenzene	13.372	105	2979	0.235	ug/l #	84
82) p-Isopropyltoluene	13.613	119	3127	0.247	ug/l	86
83) 1,3-Dichlorobenzene	13.616	146	2317	0.348	ug/l	69
84) 1,4-Dichlorobenzene	13.699	146	2839	0.437	ug/l	91
85) n-Butylbenzene	13.949	91	5463	0.520	ug/l	95
87) 1,2-Dichlorobenzene	13.699	146	2839	0.446	ug/l	94
88) 1,2-Dibromo-3-Chloropr...	14.606	75	456	0.578	ug/l #	53
89) 1,2,4-Trichlorobenzene	15.268	180	3768	1.299	ug/l	97
90) Hexachlorobutadiene	15.375	225	769	0.552	ug/l	80
91) Naphthalene	15.509	128	19446	2.360	ug/l #	92
92) 1,2,3-Trichlorobenzene	15.705	180	5171	1.861	ug/l	94

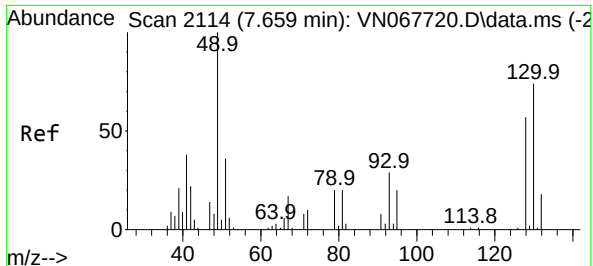
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampled :

Quant Time: Jul 15 06:16:05 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

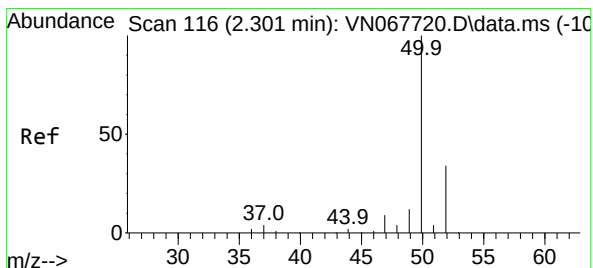
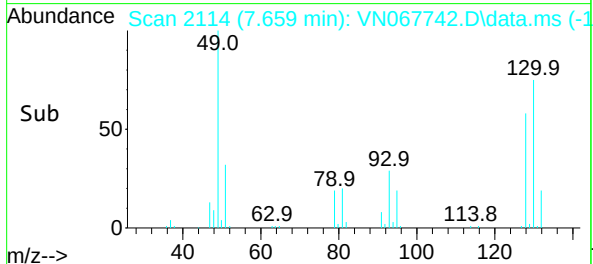
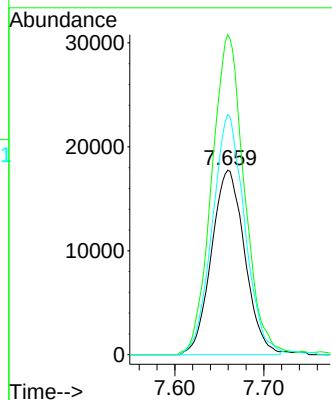
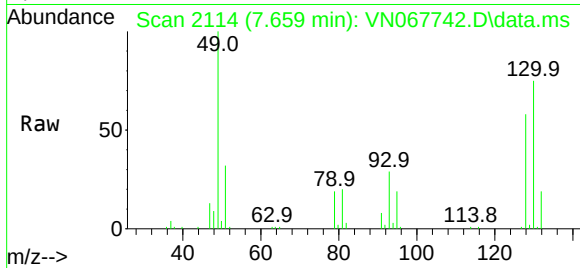




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.659 min Scan# 2114
Delta R.T. 0.000 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

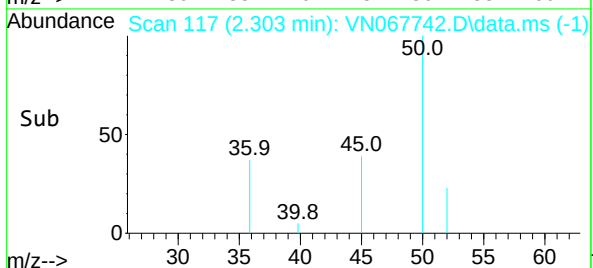
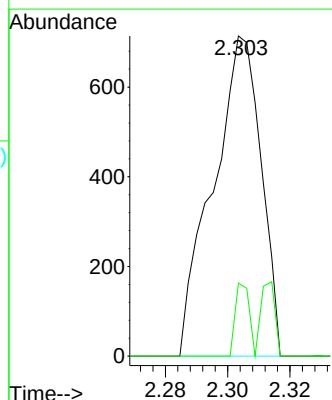
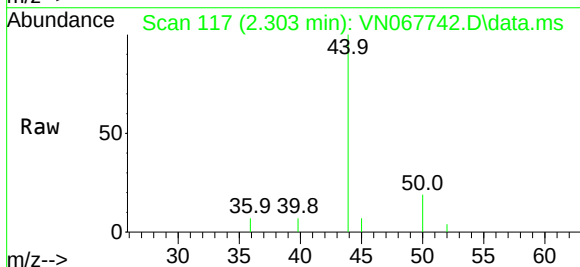
Instrument :
MSVOA_N
ClientSampled :

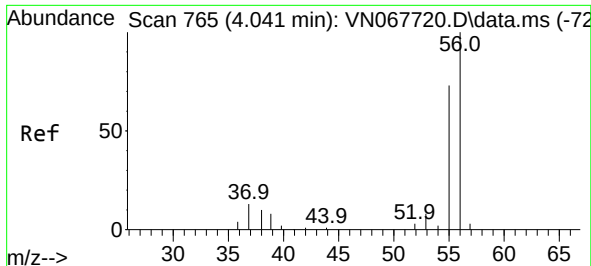
Tgt Ion:128 Resp: 46142
Ion Ratio Lower Upper
128 100
49 169.8 0.0 433.0
130 127.0 0.0 323.8



#3
Chloromethane
Concen: 0.260 ug/l
RT: 2.303 min Scan# 117
Delta R.T. 0.003 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

Tgt Ion: 50 Resp: 766
Ion Ratio Lower Upper
50 100
52 22.8 27.2 40.8#

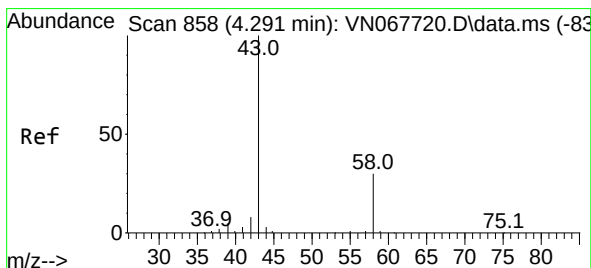
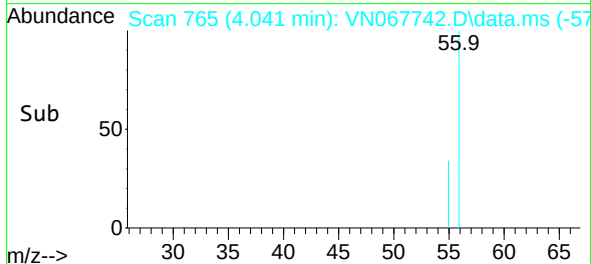
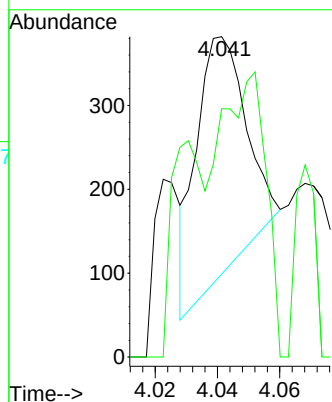
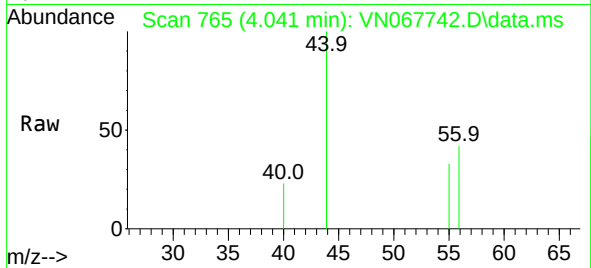




#13
Acrolein
Concen: 1.009 ug/l
RT: 4.041 min Scan# 765
Delta R.T. 0.000 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

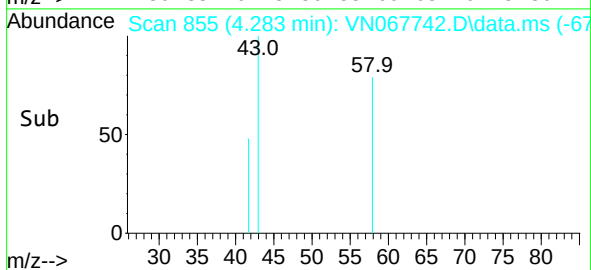
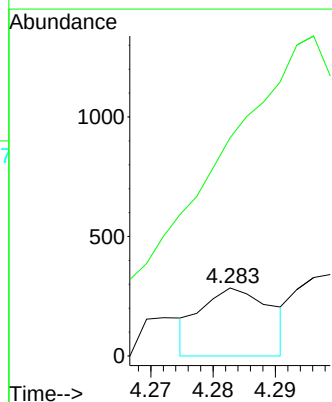
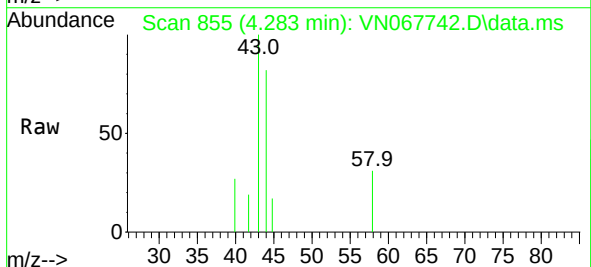
Instrument :
MSVOA_N
ClientSampleId :

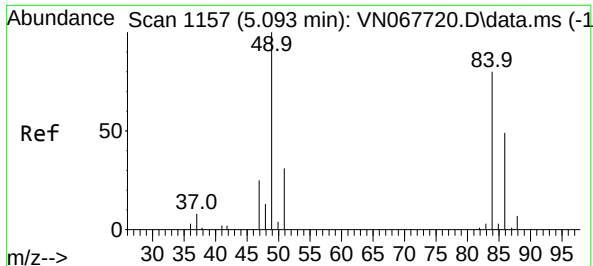
Tgt Ion: 56 Resp: 323
Ion Ratio Lower Upper
56 100
55 55.1 0.2 0.2#



#15
Acetone
Concen: 0.670 ug/l
RT: 4.283 min Scan# 855
Delta R.T. -0.008 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

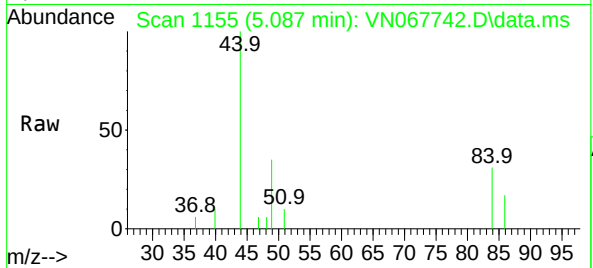
Tgt Ion: 58 Resp: 223
Ion Ratio Lower Upper
58 100
43 255.6 268.2 402.4#



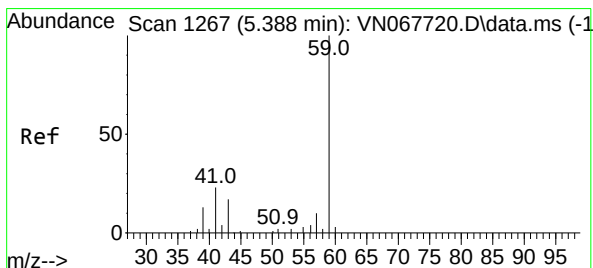
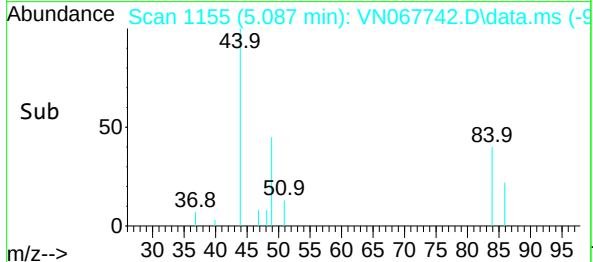
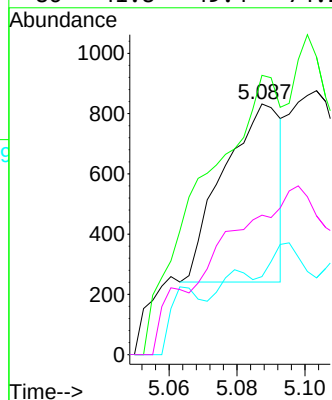


#18
Methylene Chloride
Concen: 0.223 ug/l
RT: 5.087 min Scan# 1155
Delta R.T. -0.005 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

Instrument :
MSVOA_N
ClientSampled :

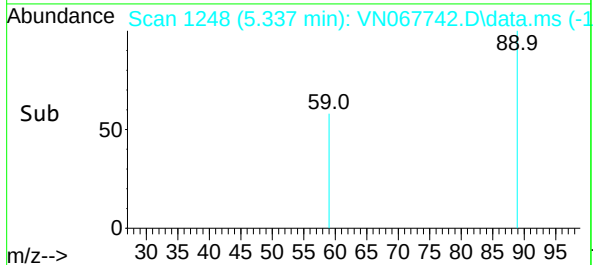
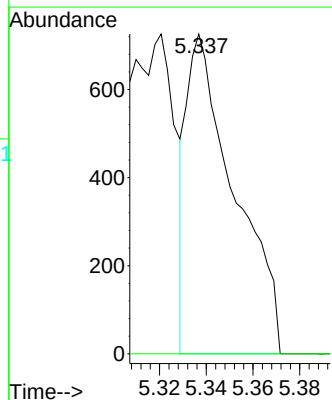
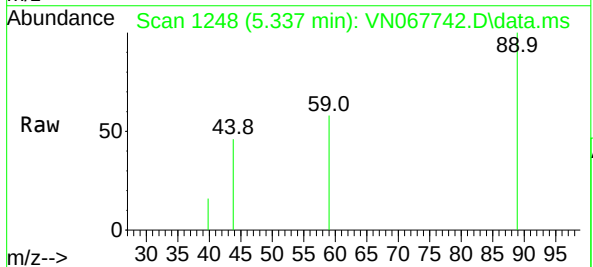


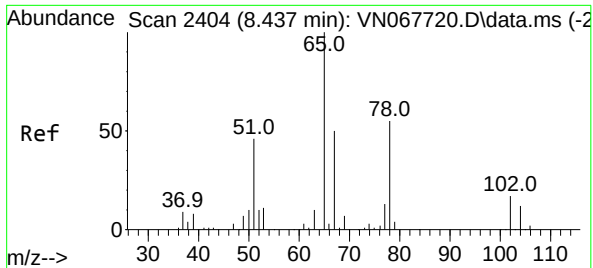
Tgt Ion:	84	Resp:	690
Ion	Ratio	Lower	Upper
84	100		
49	87.3	100.5	150.7#
51	5.8	30.7	46.1#
86	41.8	49.4	74.2#



#23
tert-Butyl Alcohol
Concen: 2.080 ug/l
RT: 5.337 min Scan# 1248
Delta R.T. -0.051 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

Tgt Ion:	59	Resp:	1030
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0



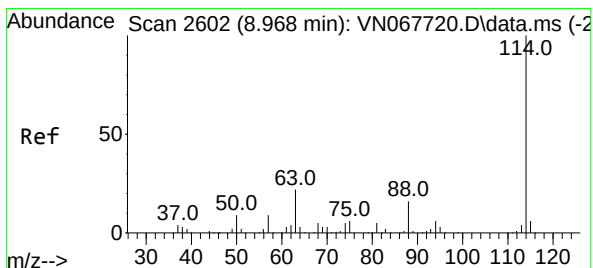
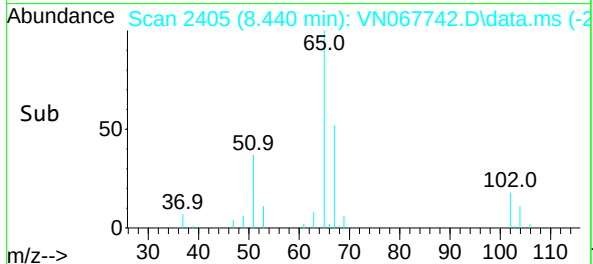
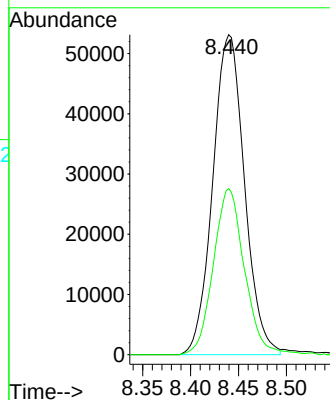
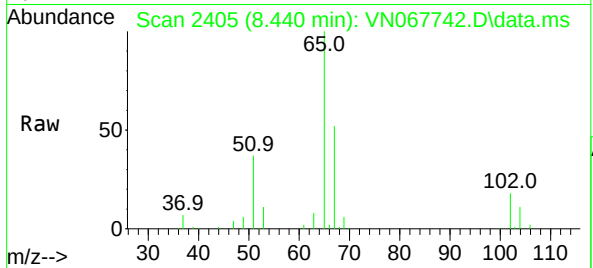


#27

1,2-Dichloroethane-d4
Concen: 32.795 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

Instrument :
MSVOA_N
ClientSampled :

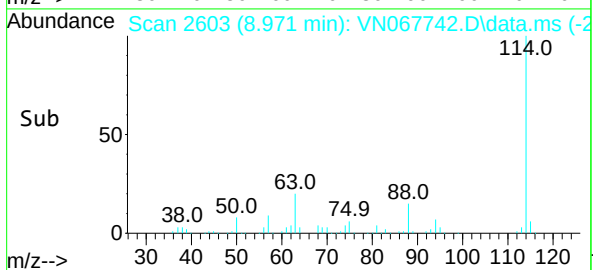
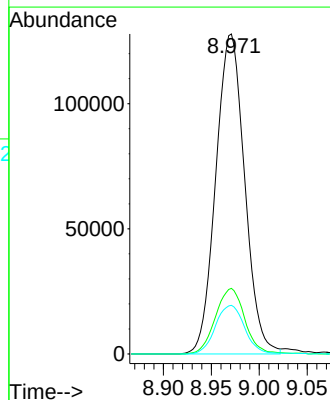
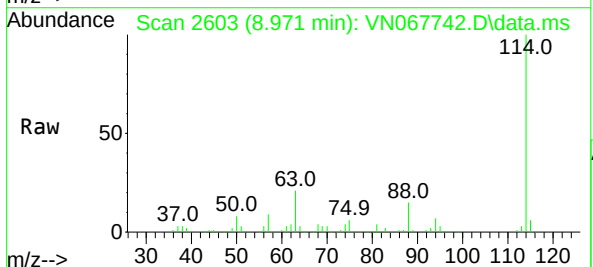
Tgt Ion: 65 Resp: 122254
Ion Ratio Lower Upper
65 100
67 50.8 40.6 60.8

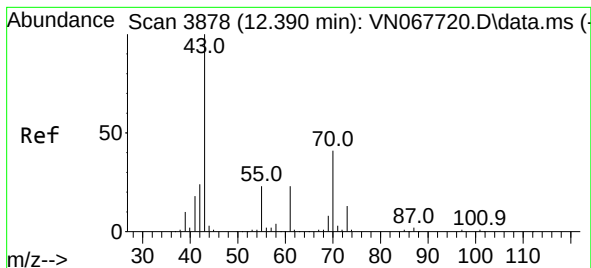


#28

1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.003 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

Tgt Ion: 114 Resp: 267578
Ion Ratio Lower Upper
114 100
63 20.9 17.2 25.8
88 15.4 12.4 18.6





#47

n-amy1 Acetate

Concen: 0.534 ug/l

RT: 12.398 min Scan# 3881

Delta R.T. 0.008 min

Lab File: VN067742.D

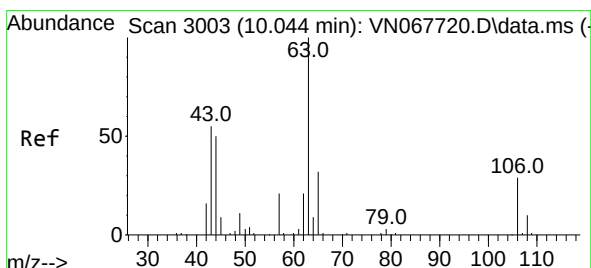
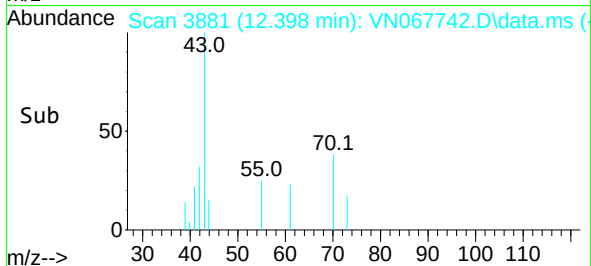
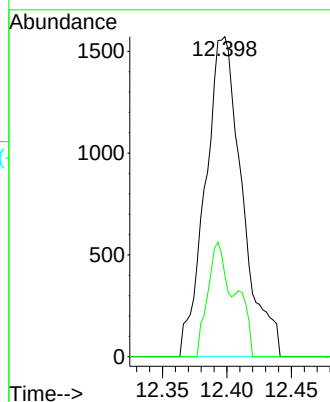
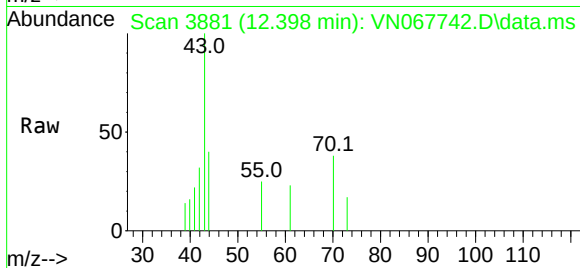
Acq: 14 Jul 2021 14:49

Tgt Ion: 43 Resp: 3131

Ion Ratio Lower Upper

43 100

55 19.0 19.0 28.6#



#55

2-Chloroethyl vinyl ether

Concen: 0.243 ug/l

RT: 10.438 min Scan# 3150

Delta R.T. 0.394 min

Lab File: VN067742.D

Acq: 14 Jul 2021 14:49

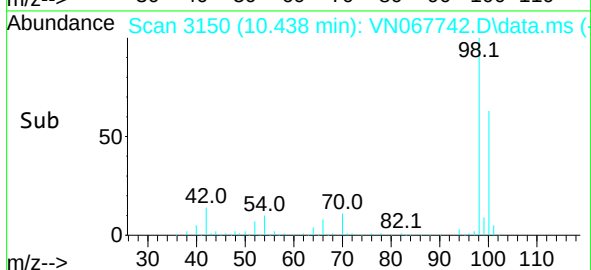
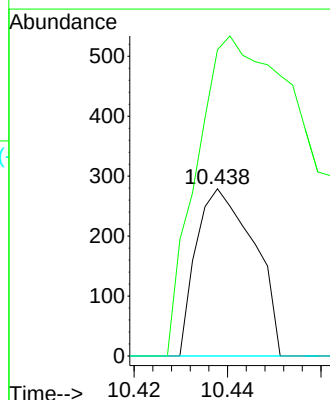
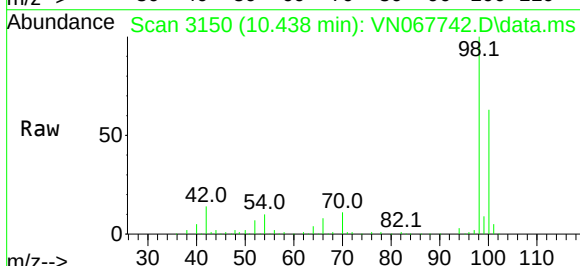
Tgt Ion: 63 Resp: 240

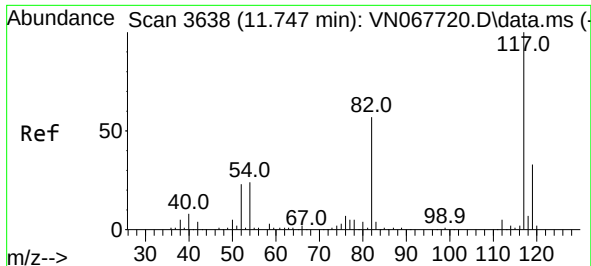
Ion Ratio Lower Upper

63 100

65 355.0 25.5 38.3#

106 0.0 22.1 33.1#

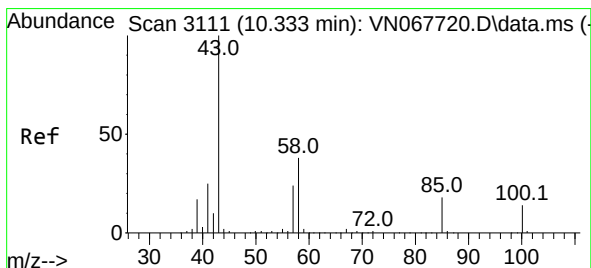
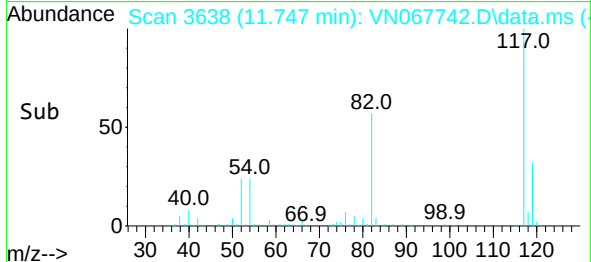
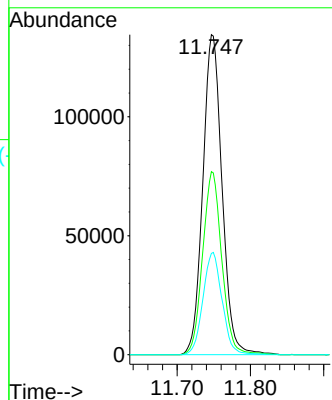
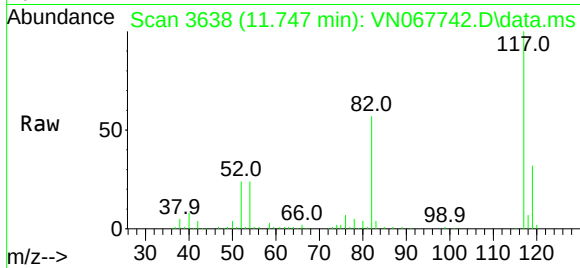




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

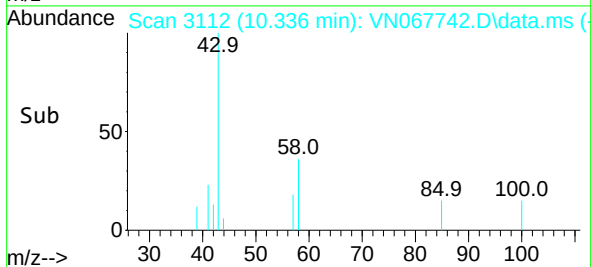
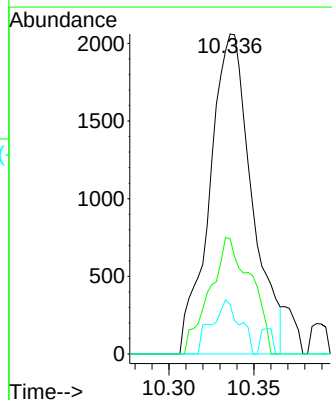
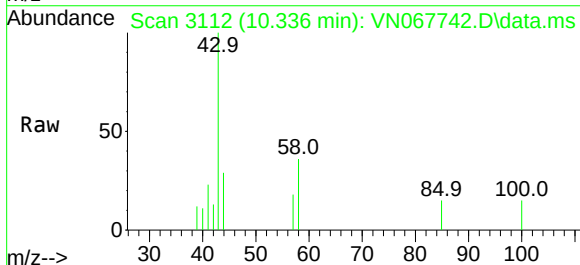
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MSVOA_N
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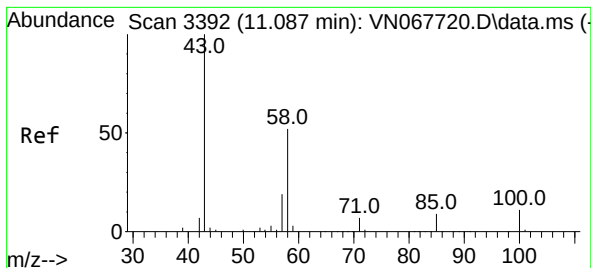
Tgt Ion:117 Resp: 245484
Ion Ratio Lower Upper
117 100
82 57.0 45.4 68.0
119 31.9 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 0.843 ug/l
RT: 10.336 min Scan# 3112
Delta R.T. 0.003 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

Tgt Ion: 43 Resp: 3553
Ion Ratio Lower Upper
43 100
58 35.5 29.9 44.9
85 7.0 14.1 21.1#

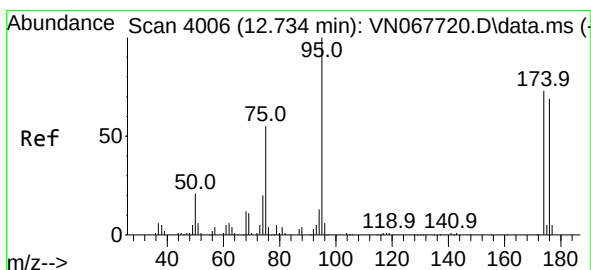
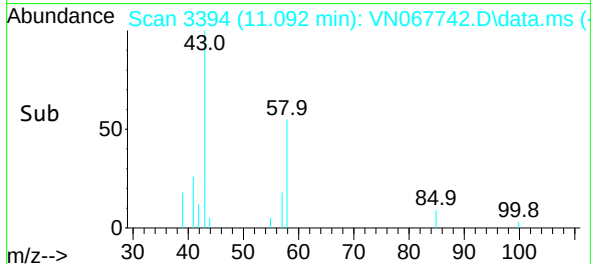
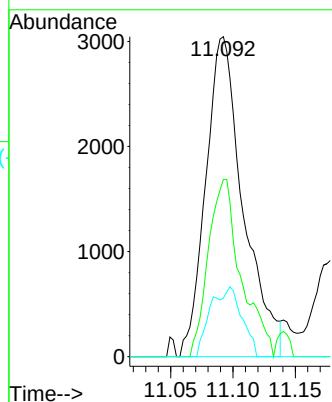
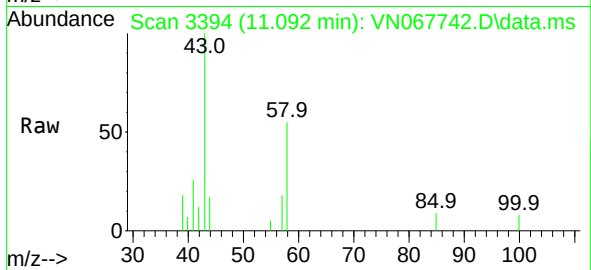




#59
2-Hexanone
Concen: 2.156 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

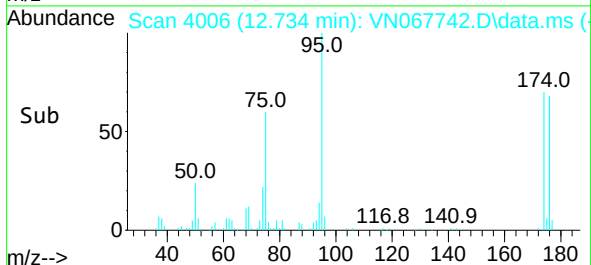
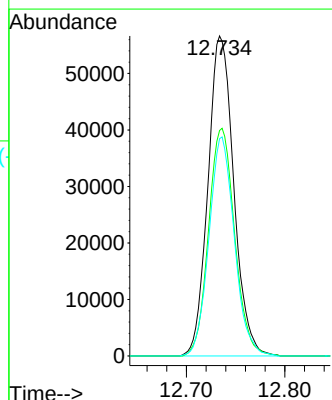
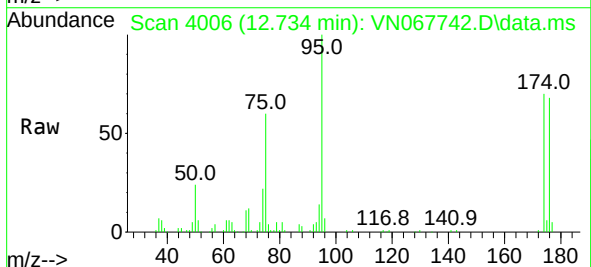
Instrument :
MSVOA_N
ClientSampleId :

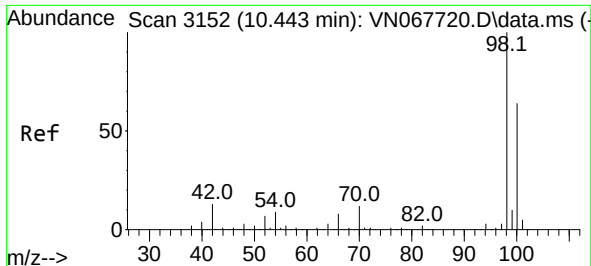
Tgt Ion: 43 Resp: 6373
Ion Ratio Lower Upper
43 100
58 43.0 41.5 62.3
57 9.6 15.1 22.7#



#60
4-Bromofluorobenzene
Concen: 25.976 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

Tgt Ion: 95 Resp: 103559
Ion Ratio Lower Upper
95 100
174 71.9 57.1 85.7
176 67.3 54.6 81.8

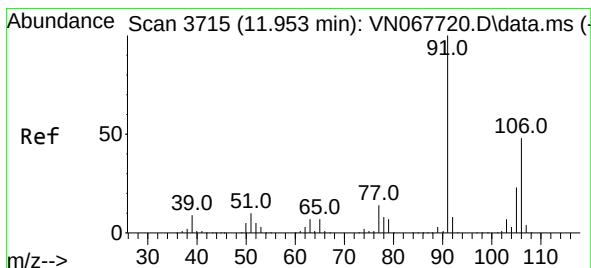
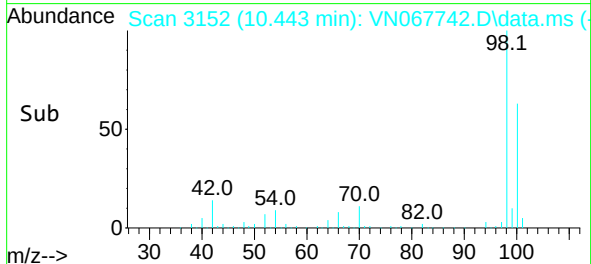
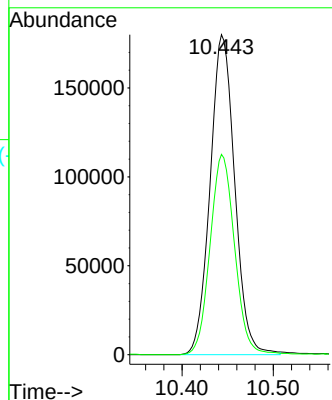
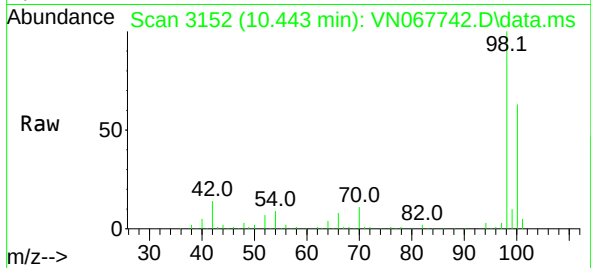




#63
Toluene-d8
Concen: 29.911 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

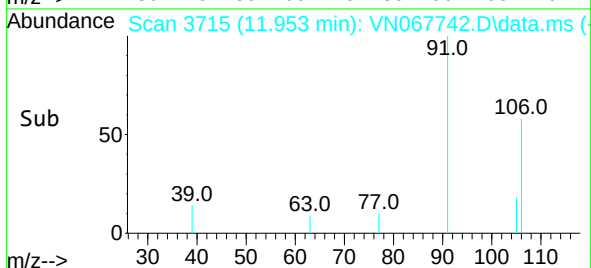
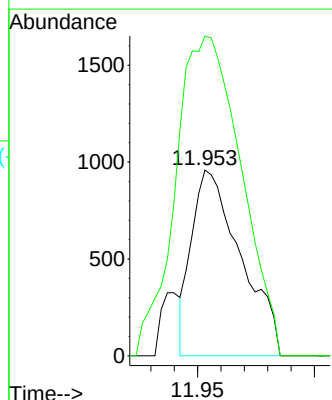
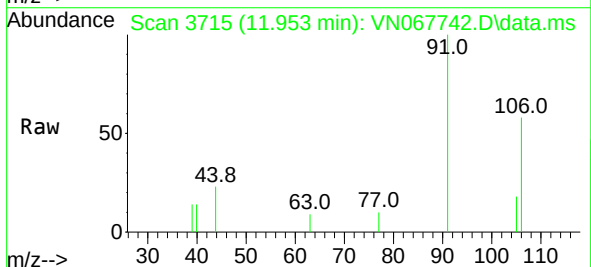
Instrument :
MSVOA_N
ClientSampled :

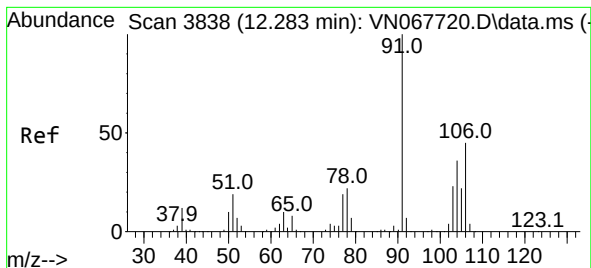
Tgt Ion: 98 Resp: 337726
Ion Ratio Lower Upper
98 100
100 62.3 51.0 76.4



#67
m/p-Xylenes
Concen: 0.229 ug/l
RT: 11.953 min Scan# 3715
Delta R.T. 0.000 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

Tgt Ion: 106 Resp: 1397
Ion Ratio Lower Upper
106 100
91 230.7 166.6 250.0

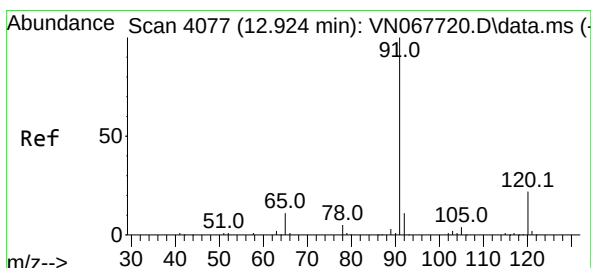
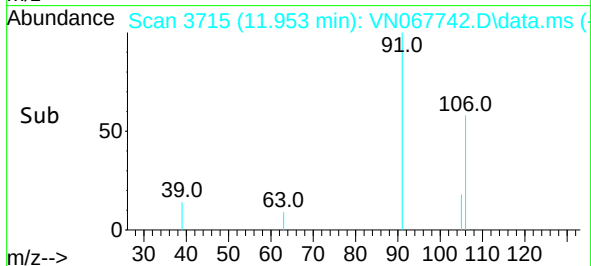
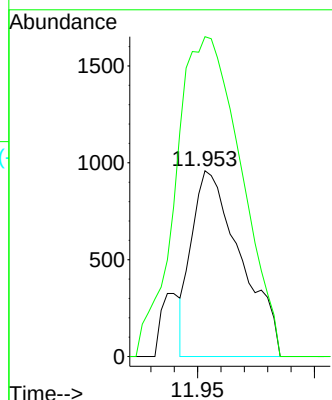
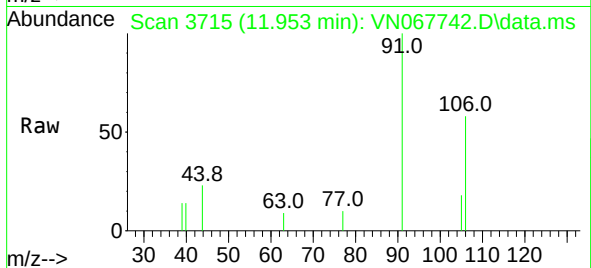




#68
o-Xylene
Concen: 0.232 ug/l
RT: 11.953 min Scan# 3715
Delta R.T. -0.330 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

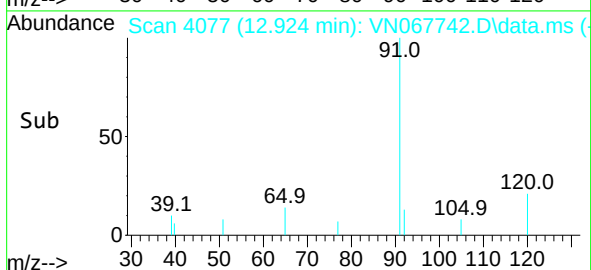
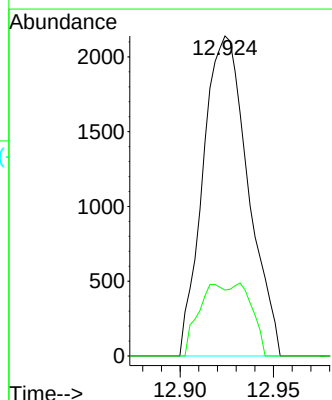
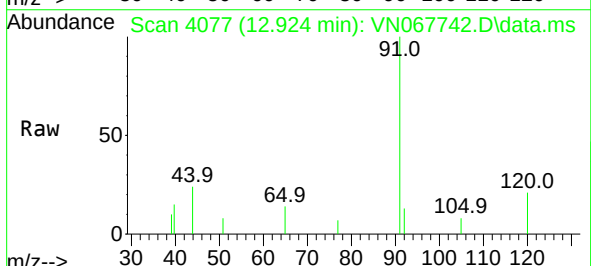
Instrument :
MSVOA_N
ClientSampleId :

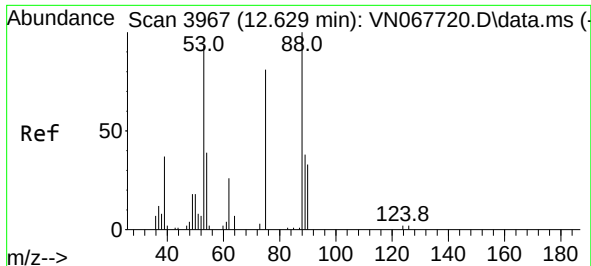
Tgt Ion:106 Resp: 1397
Ion Ratio Lower Upper
106 100
91 230.7 109.6 328.8



#74
n-propylbenzene
Concen: 0.202 ug/l
RT: 12.924 min Scan# 4077
Delta R.T. 0.000 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

Tgt Ion: 91 Resp: 3588
Ion Ratio Lower Upper
91 100
120 13.5 0.0 44.2

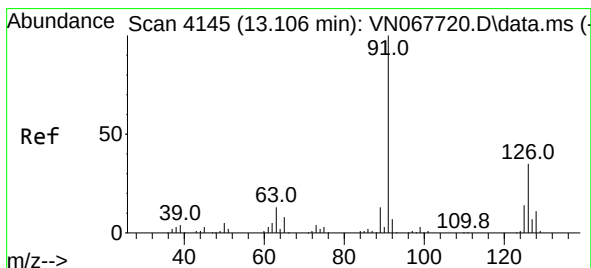
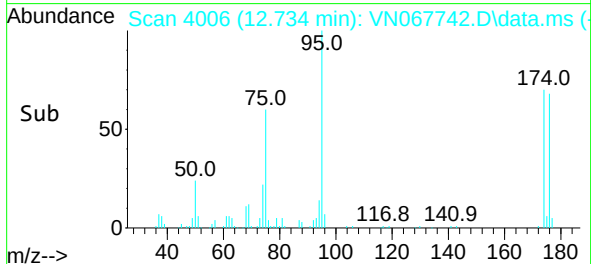
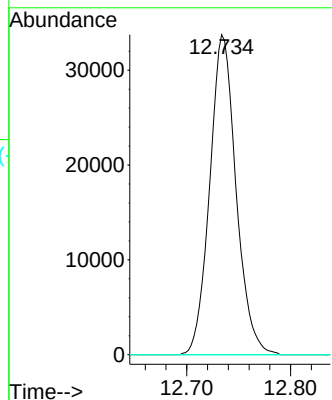
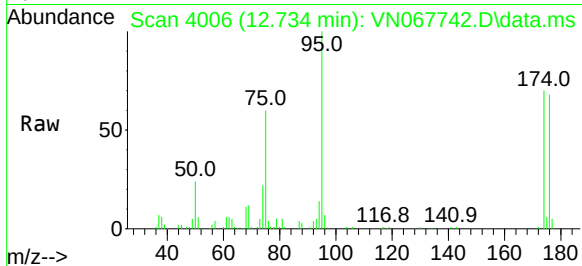




#77
t-1,4-Dichloro-2-butene
Concen: 48.128 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.105 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

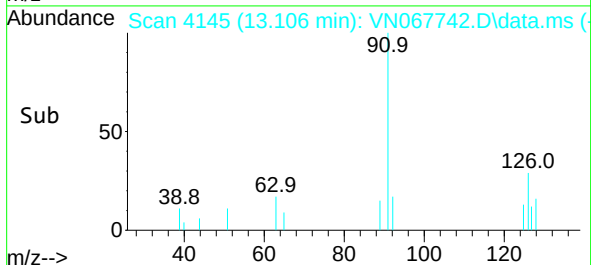
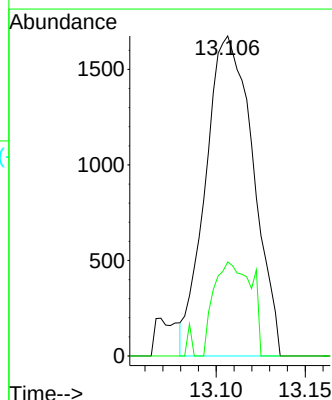
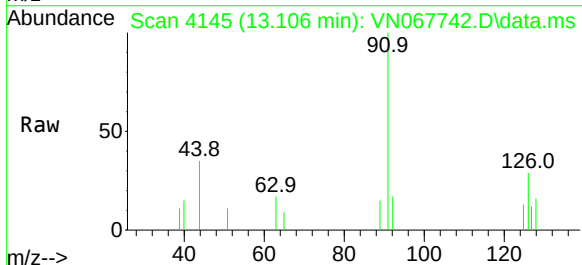
Instrument :
MSVOA_N
ClientSampleId :

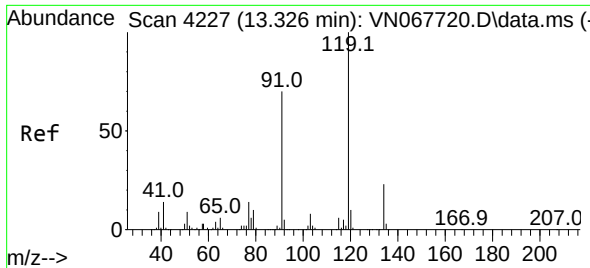
Tgt Ion: 75 Resp: 59518
Ion Ratio Lower Upper
75 100
53 0.0 57.0 171.0#
89 0.0 24.7 74.1#



#78
4-Chlorotoluene
Concen: 0.292 ug/l
RT: 13.106 min Scan# 4145
Delta R.T. 0.000 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

Tgt Ion: 91 Resp: 3109
Ion Ratio Lower Upper
91 100
126 20.9 0.0 66.4

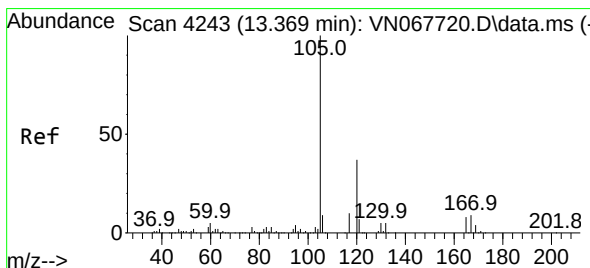
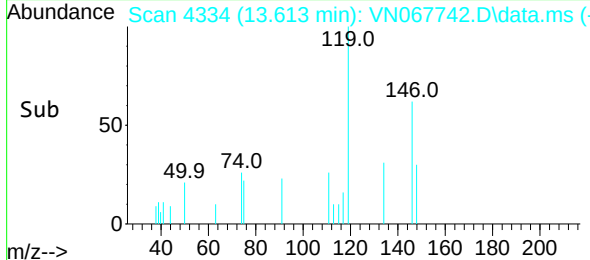
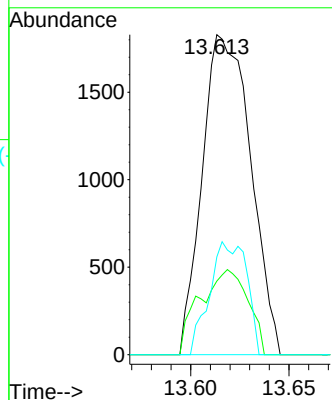
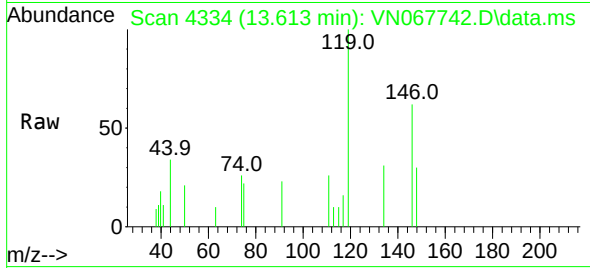




#79
tert-butylbenzene
Concen: 0.285 ug/l
RT: 13.613 min Scan# 4334
Delta R.T. 0.287 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

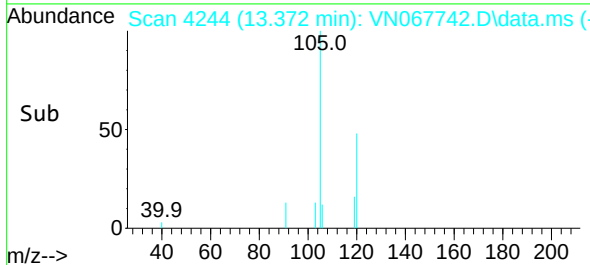
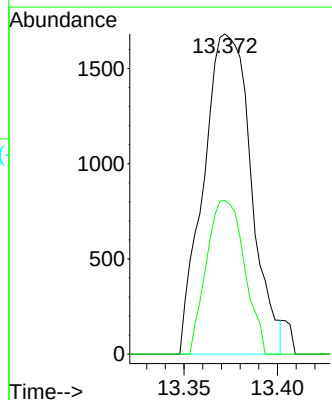
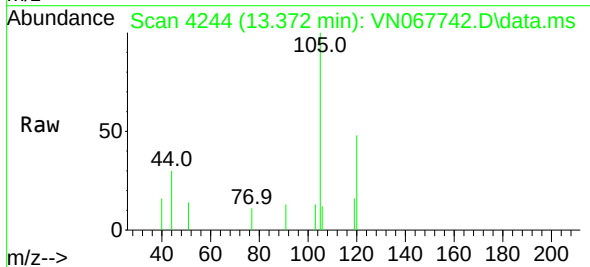
Instrument :
MSVOA_N
ClientSampleId :

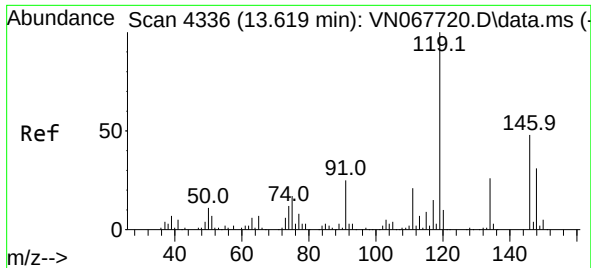
Tgt Ion:119 Resp: 3127
Ion Ratio Lower Upper
119 100
91 19.2 0.0 137.2
134 17.5 0.0 50.2



#80
1,2,4-Trimethylbenzene
Concen: 0.235 ug/l
RT: 13.372 min Scan# 4244
Delta R.T. 0.003 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

Tgt Ion:105 Resp: 2979
Ion Ratio Lower Upper
105 100
120 38.1 0.0 0.2#

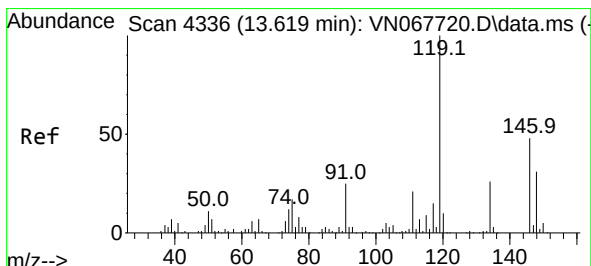
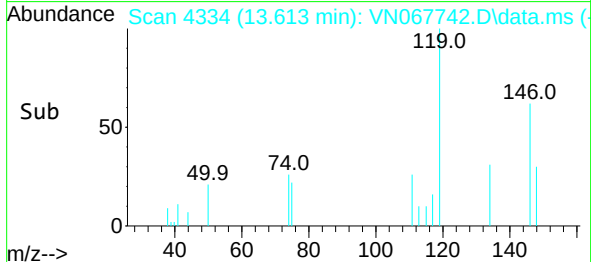
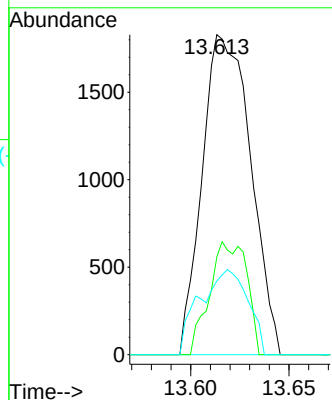
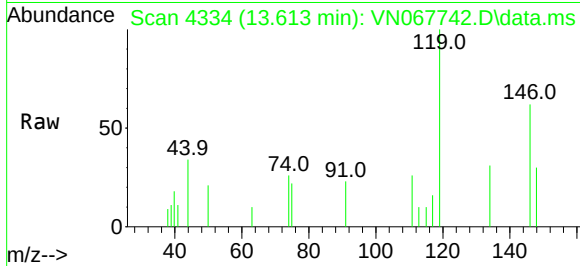




#82
p-Isopropyltoluene
Concen: 0.247 ug/l
RT: 13.613 min Scan# 4334
Delta R.T. -0.005 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

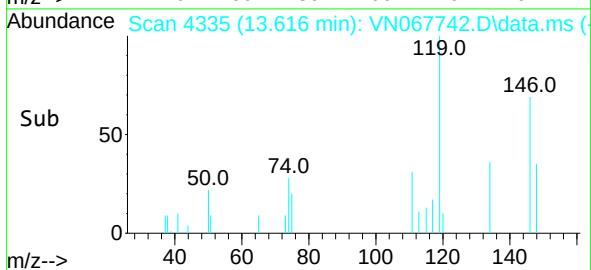
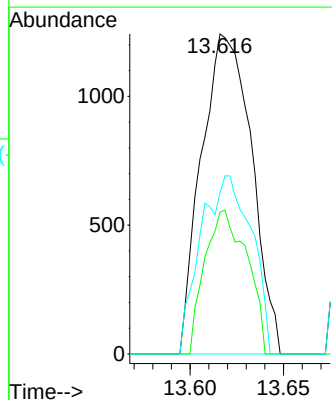
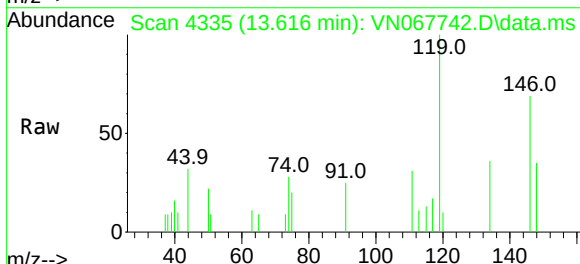
Instrument :
MSVOA_N
ClientSampleId :

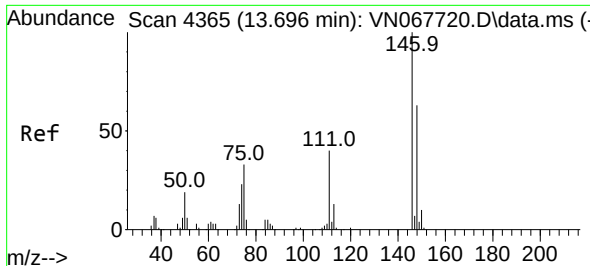
Tgt Ion:119	Resp:	3127
Ion	Ratio	Lower Upper
119	100	
134	17.5	0.0 51.0
91	19.2	0.0 50.6



#83
1,3-Dichlorobenzene
Concen: 0.348 ug/l
RT: 13.616 min Scan# 4335
Delta R.T. -0.003 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

Tgt Ion:146	Resp:	2317
Ion	Ratio	Lower Upper
146	100	
111	26.2	21.1 63.1
148	36.3	31.9 95.7

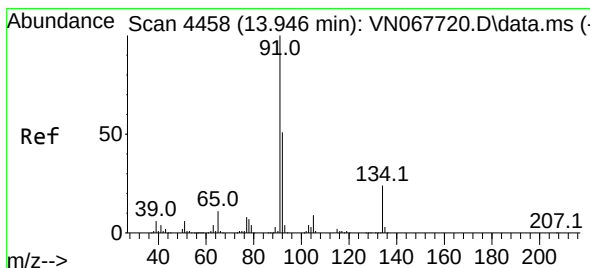
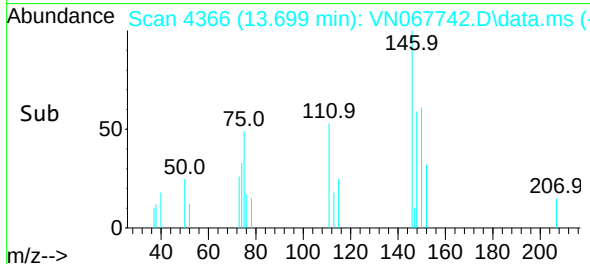
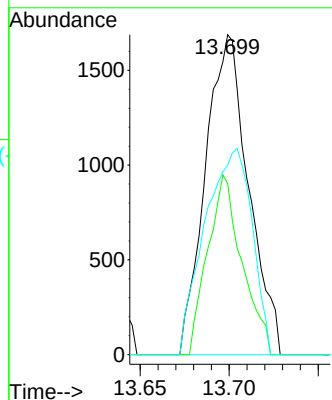
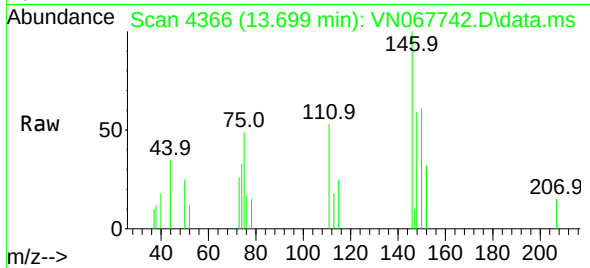




#84
1,4-Dichlorobenzene
Concen: 0.437 ug/l
RT: 13.699 min Scan# 4366
Delta R.T. 0.003 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

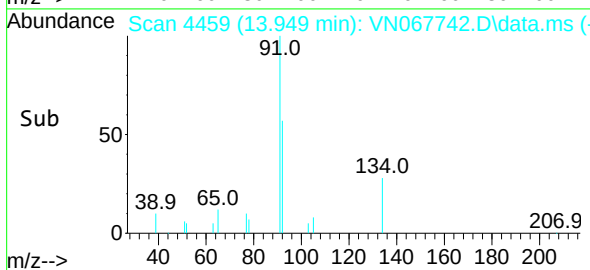
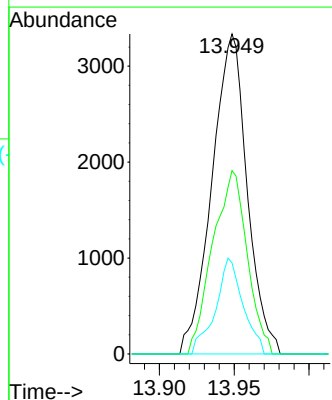
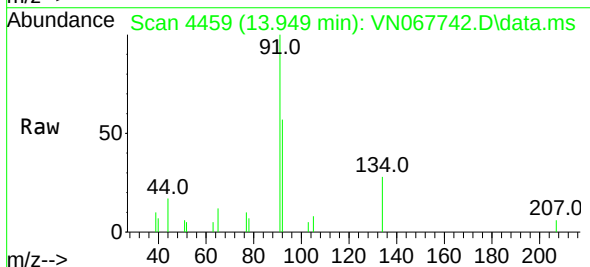
Instrument :
MSVOA_N
ClientSampleId :

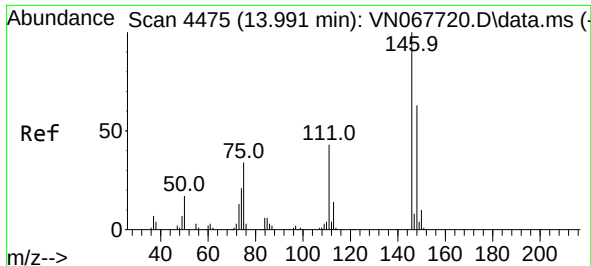
Tgt Ion:146 Resp: 2839
Ion Ratio Lower Upper
146 100
111 44.8 20.0 59.9
148 70.6 31.8 95.3



#85
n-Butylbenzene
Concen: 0.520 ug/l
RT: 13.949 min Scan# 4459
Delta R.T. 0.003 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

Tgt Ion: 91 Resp: 5463
Ion Ratio Lower Upper
91 100
92 56.1 0.0 102.6
134 23.4 0.0 48.6





#87

1,2-Dichlorobenzene

Concen: 0.446 ug/l

RT: 13.699 min Scan# 4366

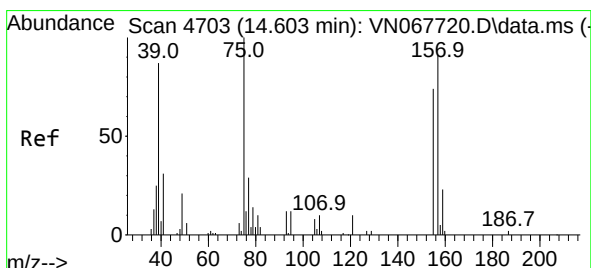
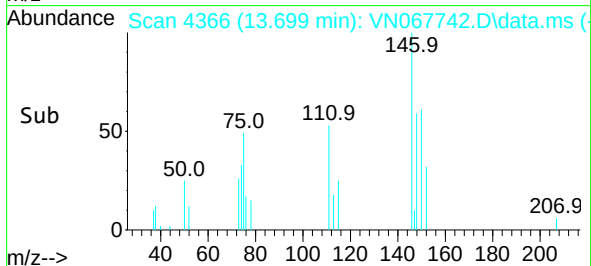
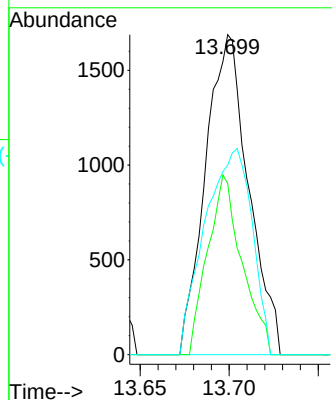
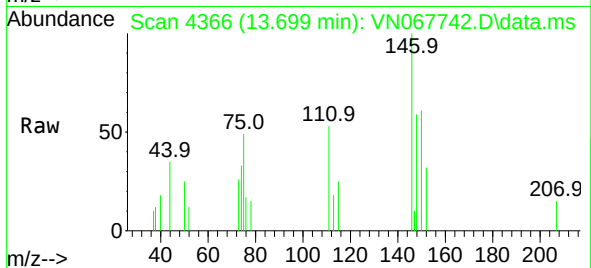
Delta R.T. -0.292 min

Lab File: VN067742.D

Acq: 14 Jul 2021 14:49

Tgt Ion:	146	Resp:	2839
Ion	Ratio	Lower	Upper
146	100		
111	44.8	22.0	66.0
148	70.6	31.7	95.1

Instrument :
MSVOA_N
ClientSampleId :



#88

1,2-Dibromo-3-Chloropropane

Concen: 0.578 ug/l

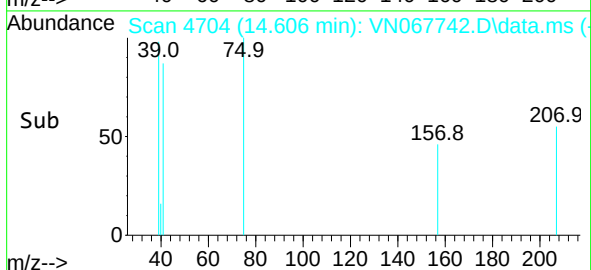
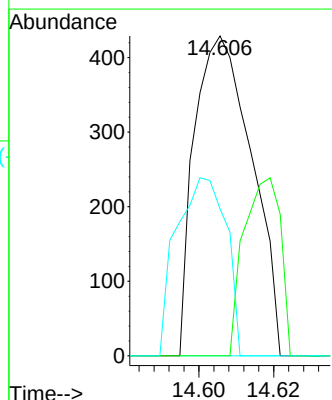
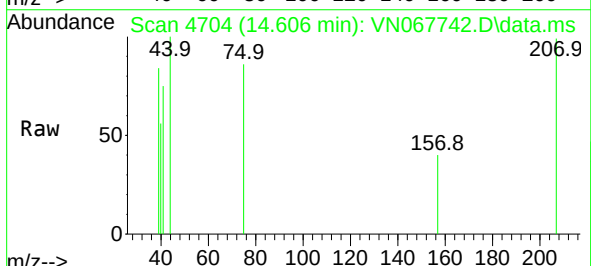
RT: 14.606 min Scan# 4704

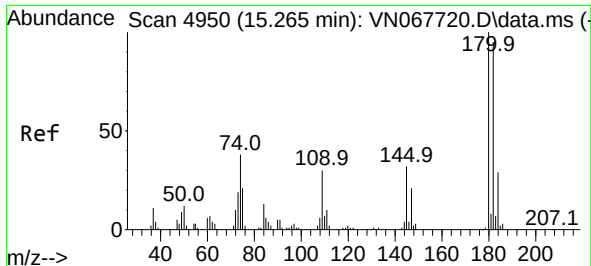
Delta R.T. 0.003 min

Lab File: VN067742.D

Acq: 14 Jul 2021 14:49

Tgt Ion:	75	Resp:	456
Ion	Ratio	Lower	Upper
75	100		
155	35.5	59.2	88.8#
157	48.5	75.4	113.2#

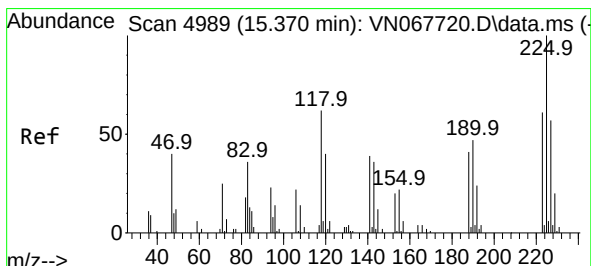
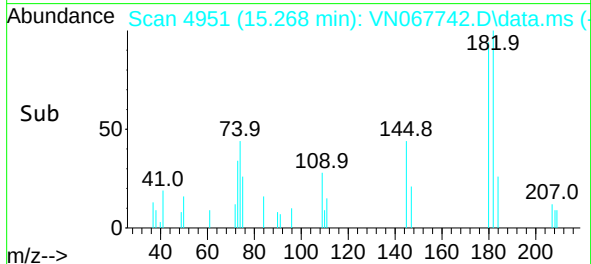
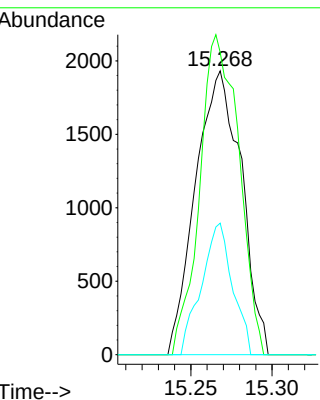
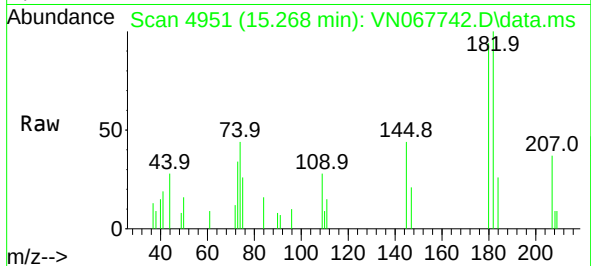




#89
1,2,4-Trichlorobenzene
Concen: 1.299 ug/l
RT: 15.268 min Scan# 4951
Delta R.T. 0.003 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

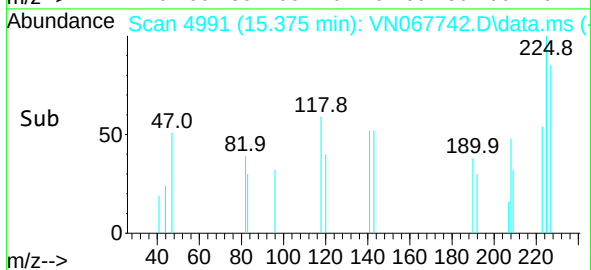
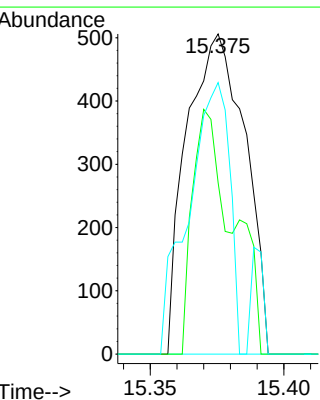
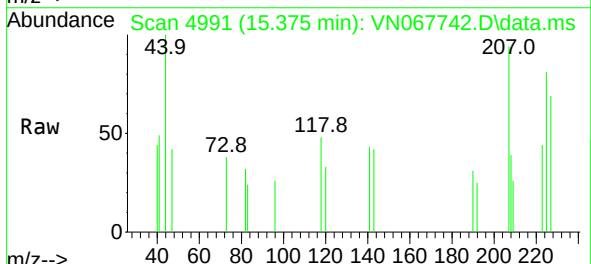
Instrument :
MSVOA_N
ClientSampleId :

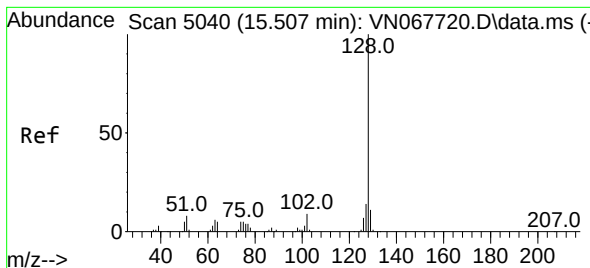
Tgt Ion:180 Resp: 3768
Ion Ratio Lower Upper
180 100
182 96.6 74.5 111.7
145 31.6 25.4 38.0



#90
Hexachlorobutadiene
Concen: 0.552 ug/l
RT: 15.375 min Scan# 4991
Delta R.T. 0.005 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

Tgt Ion:225 Resp: 769
Ion Ratio Lower Upper
225 100
223 40.7 0.0 124.6
227 49.3 0.0 115.6

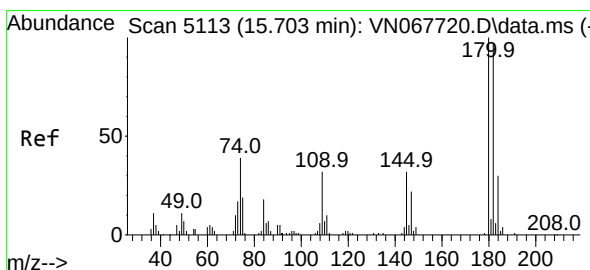
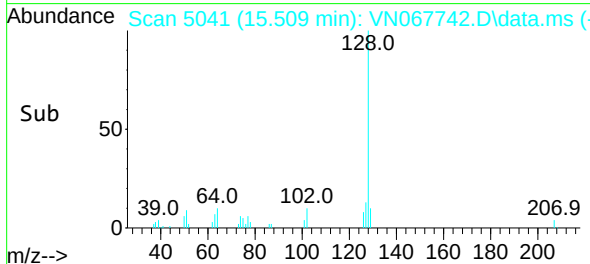
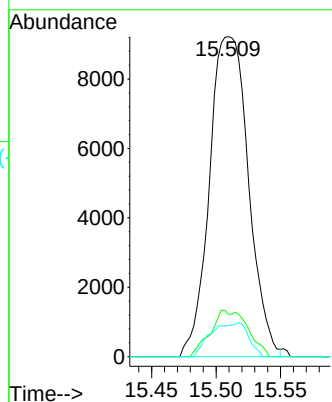
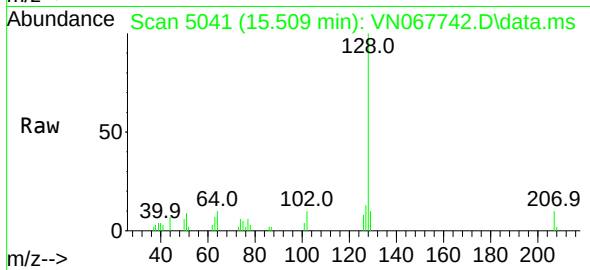




#91
Naphthalene
Concen: 2.360 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.003 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion:128 Resp: 19446
Ion Ratio Lower Upper
128 100
127 8.0 10.9 16.3#
129 10.2 8.7 13.1



#92
1,2,3-Trichlorobenzene
Concen: 1.861 ug/l
RT: 15.705 min Scan# 5114
Delta R.T. 0.003 min
Lab File: VN067742.D
Acq: 14 Jul 2021 14:49

Tgt Ion:180 Resp: 5171
Ion Ratio Lower Upper
180 100
182 94.8 0.0 190.8
145 21.0 0.0 68.2

