

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072121\
 Data File : VN067841.D
 Acq On : 21 Jul 2021 16:14
 Operator : JC/MD
 Sample : M3089-10
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 22 02:12:38 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N070721W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 07 16:18:53 2021
 Response via : Initial Calibration

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

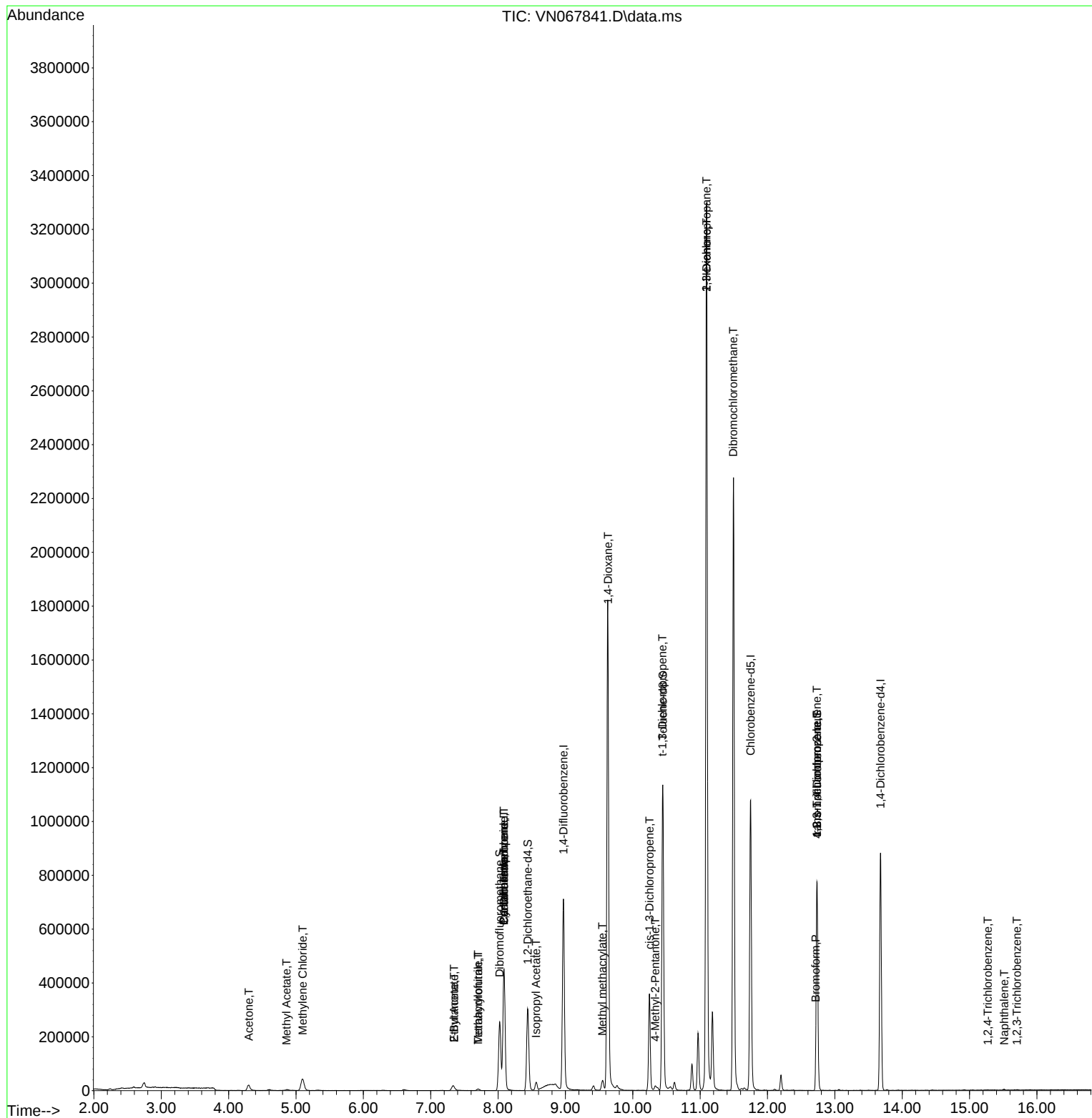
Internal Standards						
1) Pentafluorobenzene	8.088	168	327727	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	617789	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.749	117	638135	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	228234	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	256782	51.844	ug/l	0.00
Spiked Amount	50.000	Range 61 - 141	Recovery	= 103.680%		
35) Dibromofluoromethane	8.024	113	185285	49.641	ug/l	0.00
Spiked Amount	50.000	Range 69 - 133	Recovery	= 99.280%		
50) Toluene-d8	10.446	98	806502	51.621	ug/l	0.00
Spiked Amount	50.000	Range 65 - 126	Recovery	= 103.240%		
62) 4-Bromofluorobenzene	12.736	95	270509	49.014	ug/l	0.00
Spiked Amount	50.000	Range 58 - 135	Recovery	= 98.020%		
Target Compounds						
					Qvalue	
5) Bromomethane	2.821	94	25	Below Cal	#	4
6) Chloroethane	2.756	64	51	Below Cal	#	1
13) Acrolein	4.044	56	247	Below Cal	#	14
16) Acetone	4.299	43	39413	25.289	ug/l	95
18) Methyl Acetate	4.856	43	2137	0.488	ug/l	97
20) Methylene Chloride	5.100	84	35317	9.138	ug/l	90
25) 2-Butanone	7.348	43	8762	3.386	ug/l #	82
29) Tetrahydrofuran	7.705	42	4610	2.709	ug/l #	73
31) Cyclohexane	8.088	56	8524	1.227	ug/l #	22
36) 1,1-Dichloropropene	8.088	75	30655	5.342	ug/l #	52
37) Ethyl Acetate	7.348	43	8762	1.576	ug/l #	72
38) Carbon Tetrachloride	8.088	117	36958	6.529	ug/l #	16
41) Methacrylonitrile	7.702	41	2165	0.758	ug/l #	42
43) Isopropyl Acetate	8.566	43	35172	3.596	ug/l	94
48) Methyl methacrylate	9.550	41	9932	2.296	ug/l #	12
49) 1,4-Dioxane	9.633	88	191	34.281	ug/l #	1
51) 4-Methyl-2-Pentanone	10.333	43	8619	1.434	ug/l #	72
53) t-1,3-Dichloropropene	10.440	75	330	1.789	ug/l #	1
54) cis-1,3-Dichloropropene	10.247	75	62085	9.254	ug/l #	60
57) 1,3-Dichloropropane	11.095	76	33940	4.590	ug/l #	43
59) 2-Hexanone	11.095	43	514477	122.662	ug/l #	54
60) Dibromochloromethane	11.492	129	323	2.415	ug/l #	11
71) Bromoform	12.715	173	235	3.230	ug/l #	29
76) 1,2,3-Trichloropropane	12.733	75	150896	32.375	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.733	75	150896	104.379	ug/l #	6
93) 1,2,4-Trichlorobenzene	15.271	180	358	2.763	ug/l #	16
95) Naphthalene	15.517	128	2913	3.257	ug/l #	77
96) 1,2,3-Trichlorobenzene	15.702	180	299	2.710	ug/l #	66

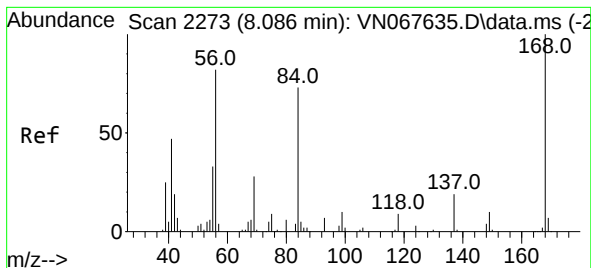
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jul 07 16:18:53 2021
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.088 min Scan# 2274

Delta R.T. 0.002 min

Lab File: VN067841.D

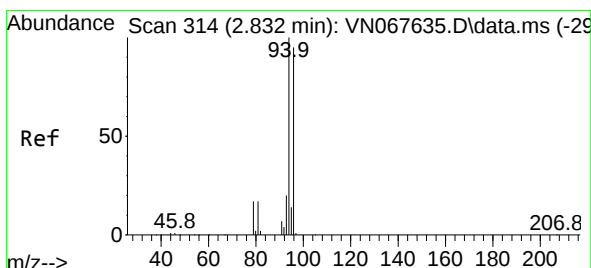
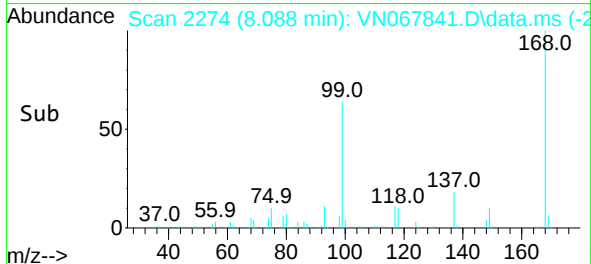
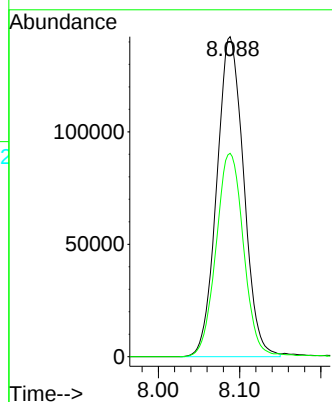
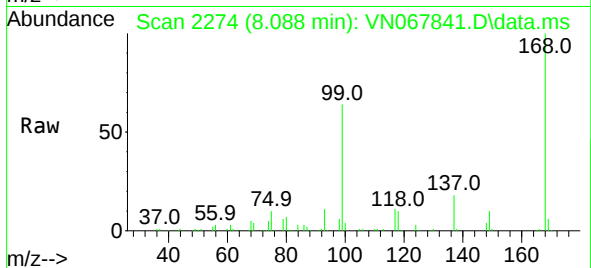
Acq: 21 Jul 2021 16:14

Tgt Ion:168 Resp: 327727

Ion Ratio Lower Upper

168 100

99 63.6 62.9 94.3



#5

Bromomethane

Concen: Below Cal

RT: 2.821 min Scan# 310

Delta R.T. -0.011 min

Lab File: VN067841.D

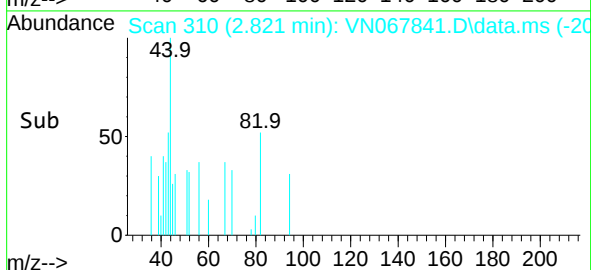
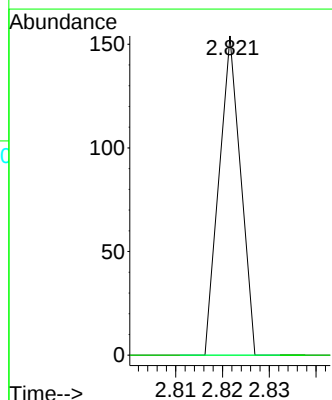
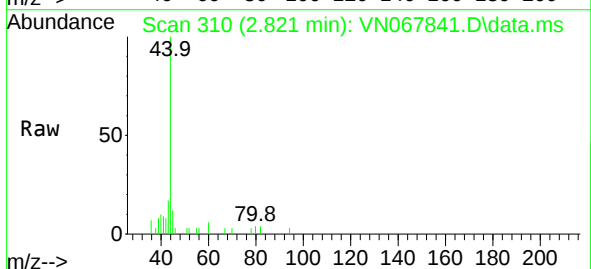
Acq: 21 Jul 2021 16:14

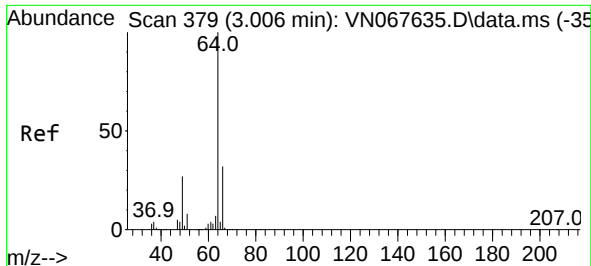
Tgt Ion: 94 Resp: 25

Ion Ratio Lower Upper

94 100

96 0.0 73.7 110.5#

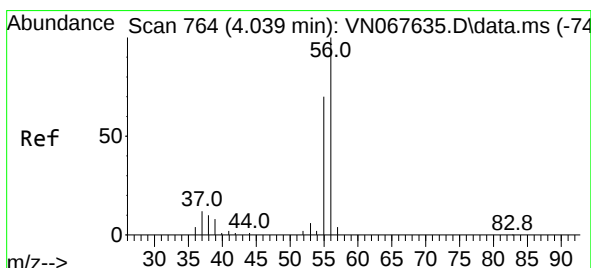
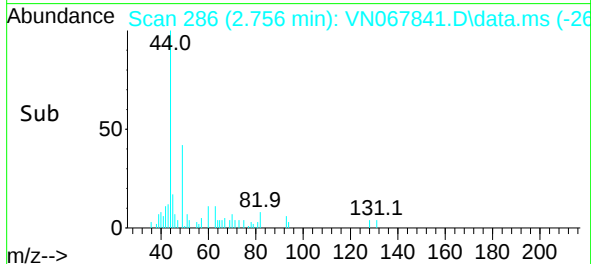
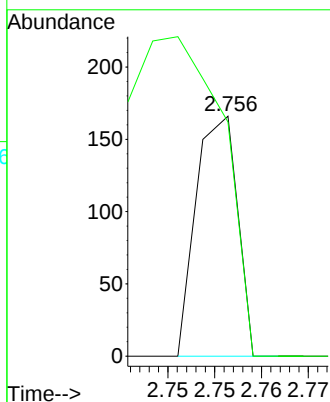
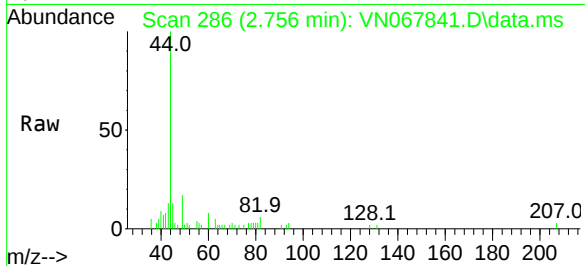




#6
Chloroethane
Concen: Below Cal
RT: 2.756 min Scan# 286
Delta R.T. -0.250 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14

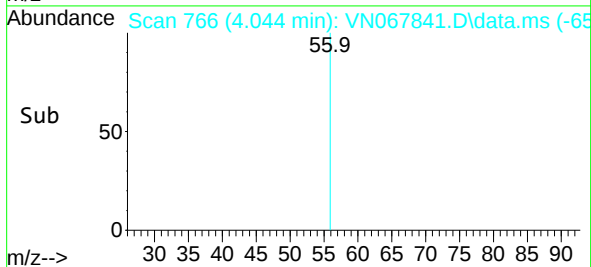
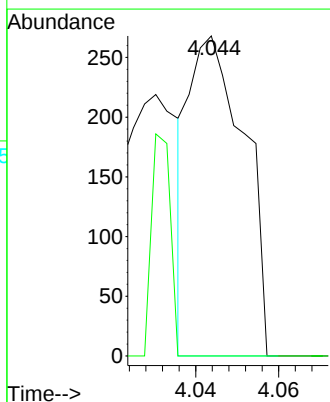
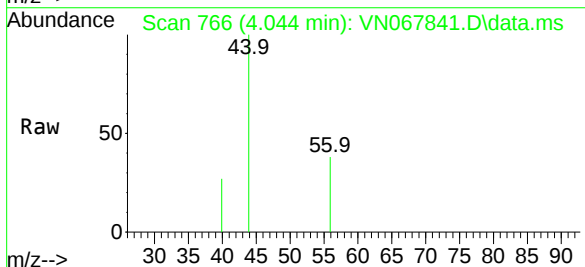
Instrument :
MSVOA_N
ClientSampled :

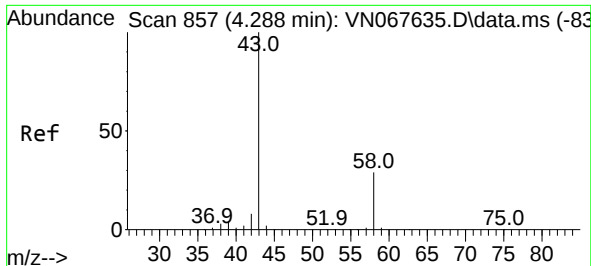
Tgt Ion: 64 Resp: 51
Ion Ratio Lower Upper
64 100
66 97.6 24.7 37.1#



#13
Acrolein
Concen: Below Cal
RT: 4.044 min Scan# 766
Delta R.T. 0.005 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14

Tgt Ion: 56 Resp: 247
Ion Ratio Lower Upper
56 100
55 0.0 57.4 86.0#

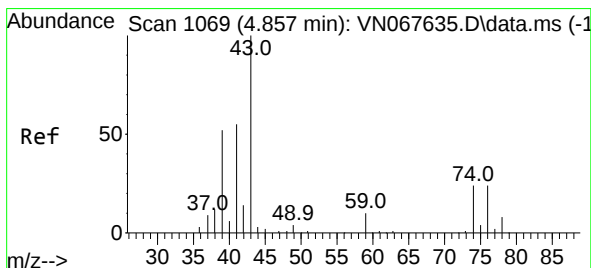
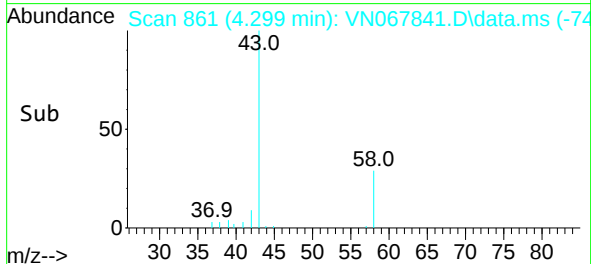
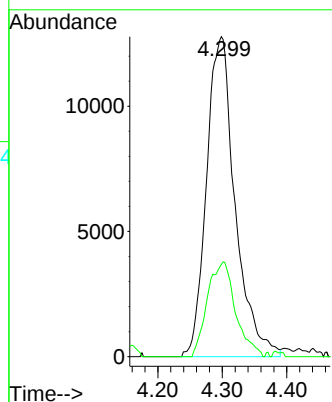
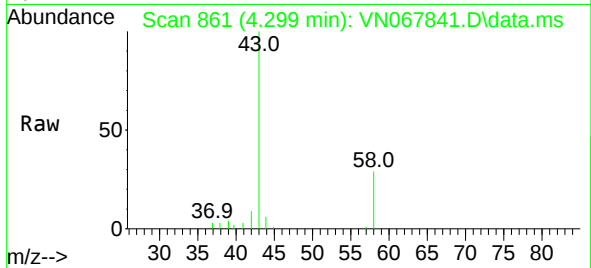




#16
Acetone
Concen: 25.289 ug/l
RT: 4.299 min Scan# 861
Delta R.T. 0.011 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14

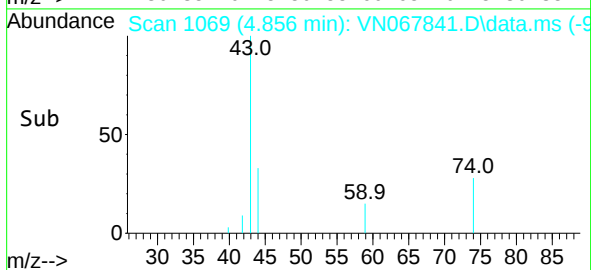
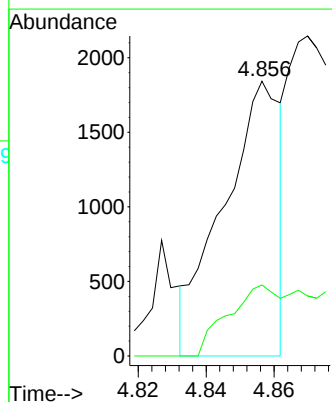
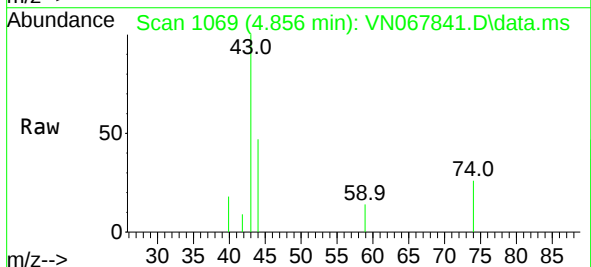
Instrument :
MSVOA_N
ClientSampled :

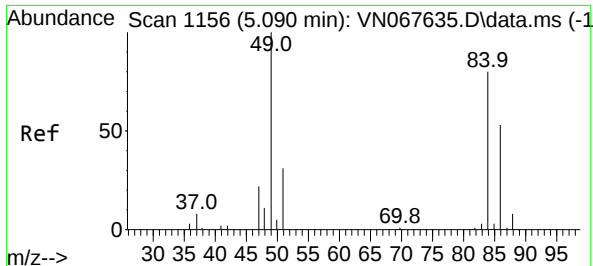
Tgt Ion: 43 Resp: 39413
Ion Ratio Lower Upper
43 100
58 28.8 21.2 31.8



#18
Methyl Acetate
Concen: 0.488 ug/l
RT: 4.856 min Scan# 1069
Delta R.T. -0.001 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14

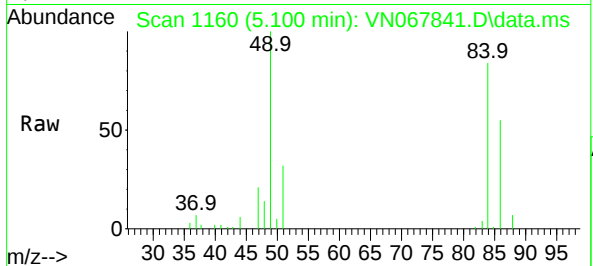
Tgt Ion: 43 Resp: 2137
Ion Ratio Lower Upper
43 100
74 23.1 17.4 26.0





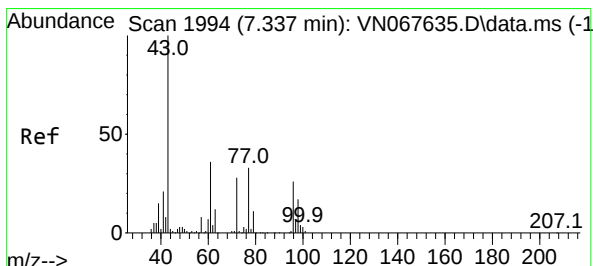
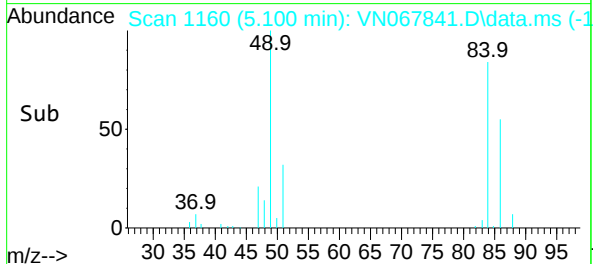
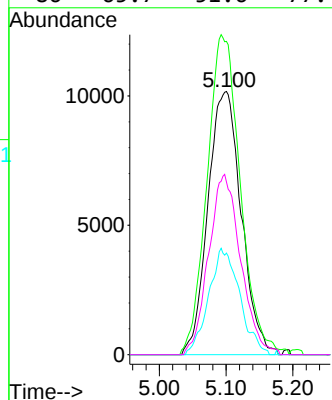
#20
Methylene Chloride
Concen: 9.138 ug/l
RT: 5.100 min Scan# 1160
Delta R.T. 0.010 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14

Instrument :
MSVOA_N
ClientSampled :

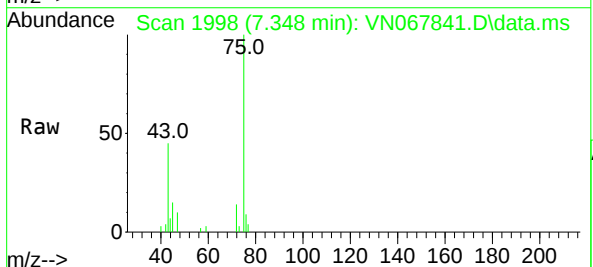


Tgt Ion: 84 Resp: 35317

Ion	Ratio	Lower	Upper
84	100		
49	119.1	110.9	166.3
51	38.6	32.6	49.0
86	65.7	51.6	77.4

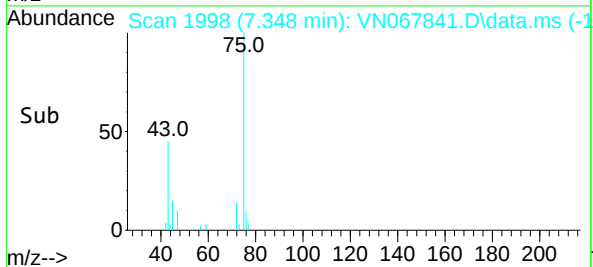
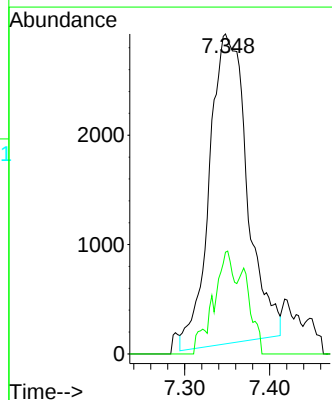


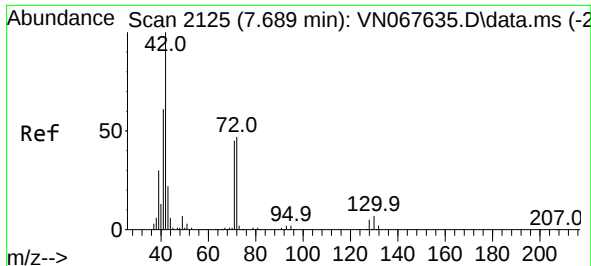
#25
2-Butanone
Concen: 3.386 ug/l
RT: 7.348 min Scan# 1998
Delta R.T. 0.011 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14



Tgt Ion: 43 Resp: 8762

Ion	Ratio	Lower	Upper
43	100		
72	33.8	19.7	29.5





#29

Tetrahydrofuran

Concen: 2.709 ug/l

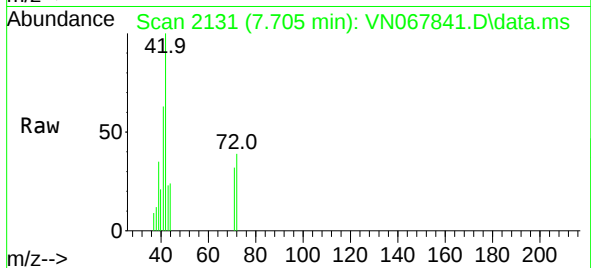
RT: 7.705 min Scan# 2131

Delta R.T. 0.016 min

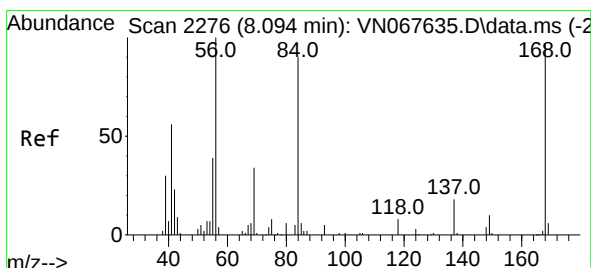
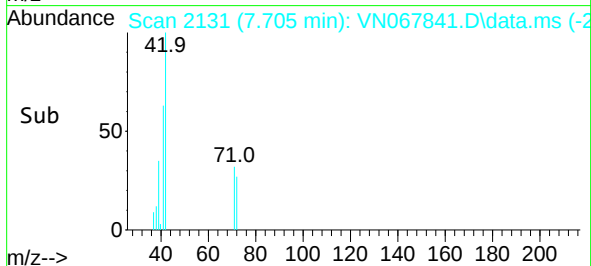
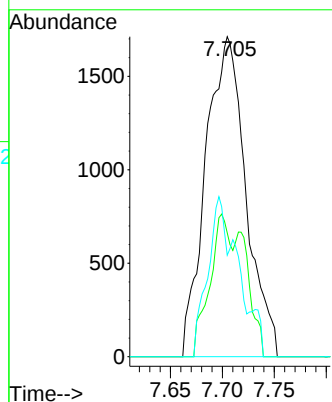
Lab File: VN067841.D

Acq: 21 Jul 2021 16:14

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:	42	Resp:	4610
Ion	Ratio	Lower	Upper
42	100		
72	23.7	32.8	49.2#
71	22.4	31.2	46.8#



#31

Cyclohexane

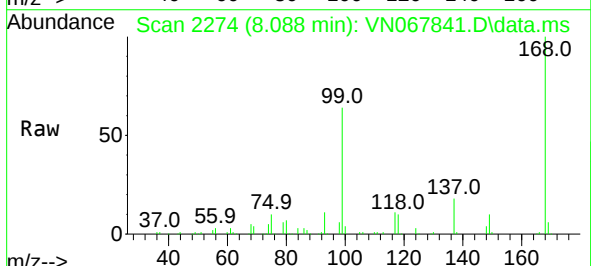
Concen: 1.227 ug/l

RT: 8.088 min Scan# 2274

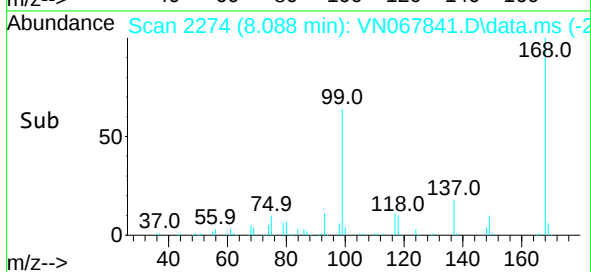
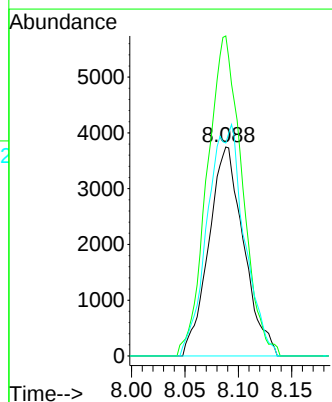
Delta R.T. -0.006 min

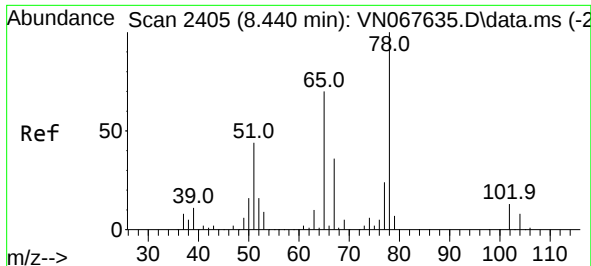
Lab File: VN067841.D

Acq: 21 Jul 2021 16:14



Tgt Ion:	56	Resp:	8524
Ion	Ratio	Lower	Upper
56	100		
69	153.1	27.3	40.9#
84	101.9	64.9	97.3#





#33

1,2-Dichloroethane-d4

Concen: 51.844 ug/l

RT: 8.440 min Scan# 2405

Delta R.T. -0.000 min

Lab File: VN067841.D

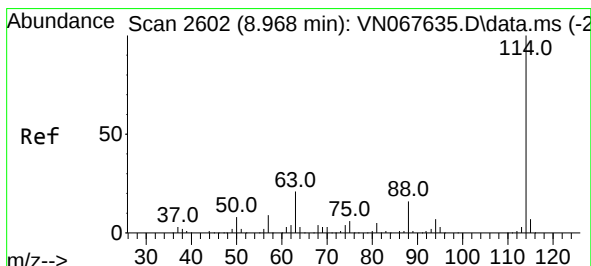
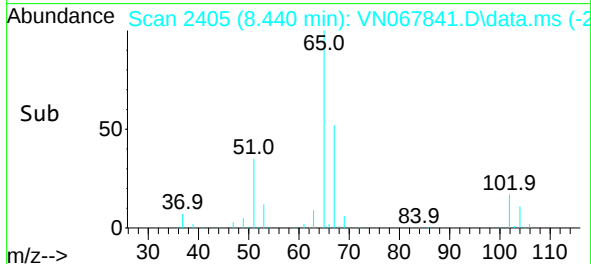
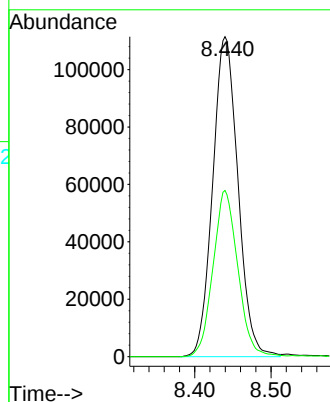
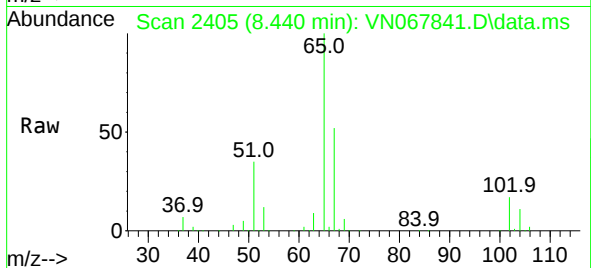
Acq: 21 Jul 2021 16:14

Tgt Ion: 65 Resp: 256782

Ion Ratio Lower Upper

65 100

67 50.9 0.0 98.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.971 min Scan# 2603

Delta R.T. 0.003 min

Lab File: VN067841.D

Acq: 21 Jul 2021 16:14

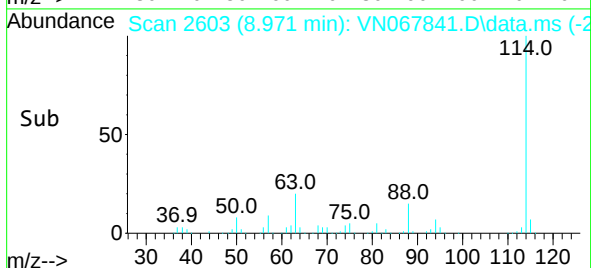
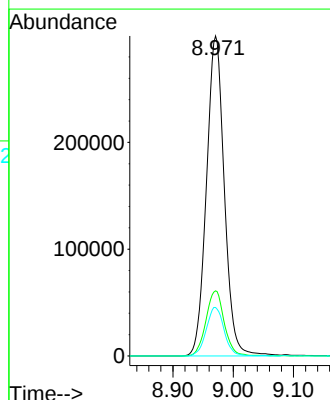
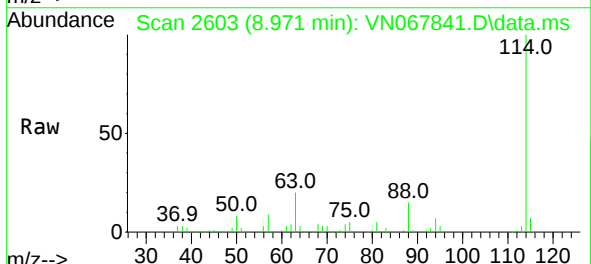
Tgt Ion: 114 Resp: 617789

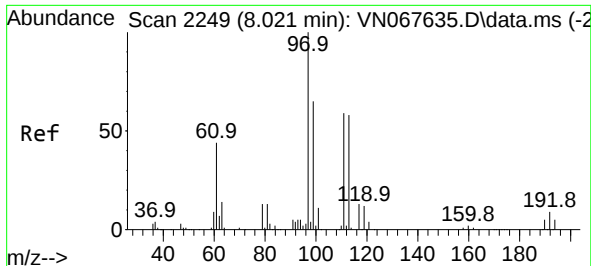
Ion Ratio Lower Upper

114 100

63 20.4 0.0 49.0

88 15.1 0.0 36.6

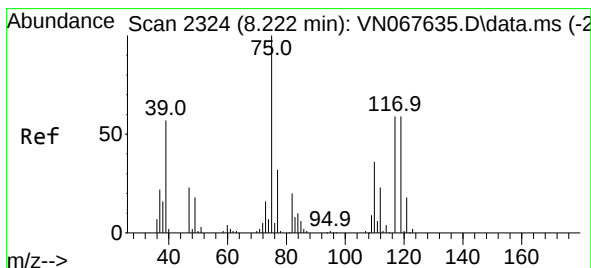
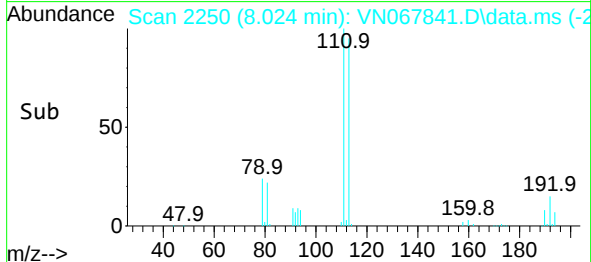
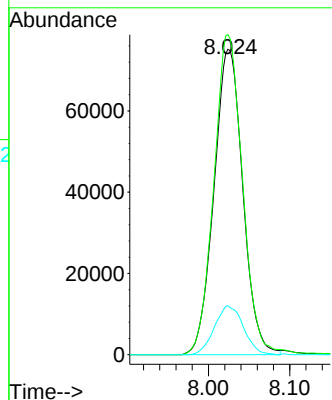
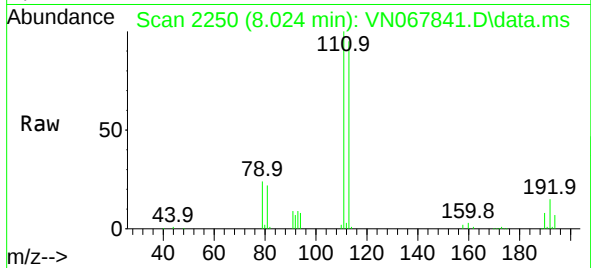




#35
Dibromofluoromethane
Concen: 49.641 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14

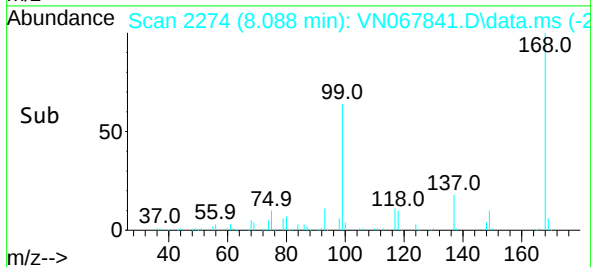
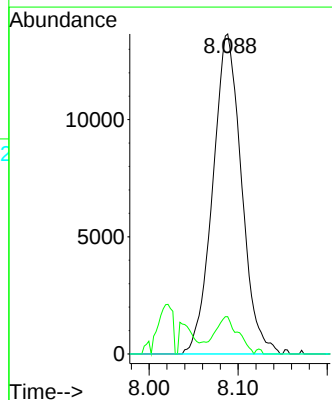
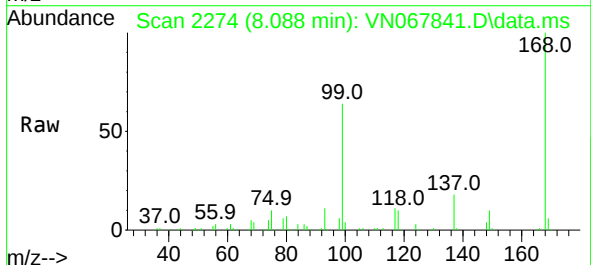
Instrument :
MSVOA_N
ClientSampled :

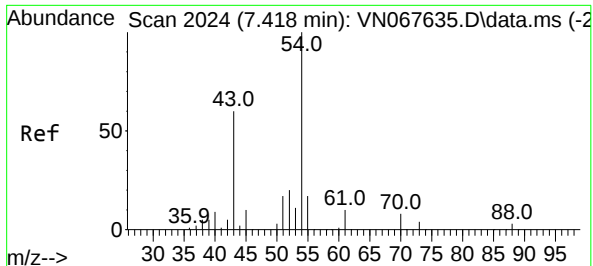
Tgt Ion:113 Resp: 185285
Ion Ratio Lower Upper
113 100
111 104.3 83.8 125.8
192 16.1 13.4 20.0



#36
1,1-Dichloropropene
Concen: 5.342 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.134 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14

Tgt Ion: 75 Resp: 30655
Ion Ratio Lower Upper
75 100
110 9.2 15.7 47.0#
77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 1.576 ug/l

RT: 7.348 min Scan# 1998

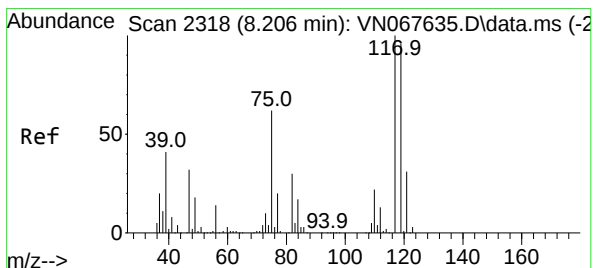
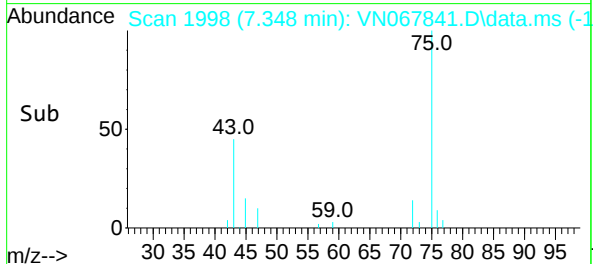
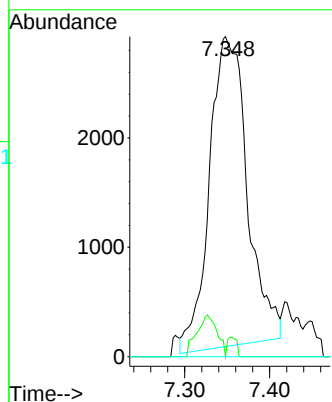
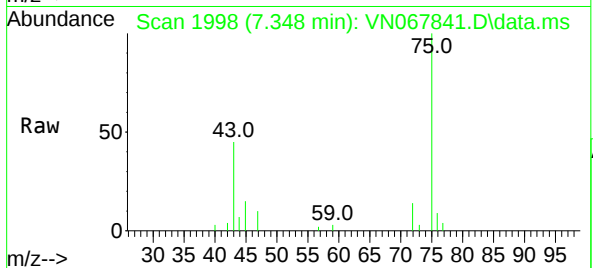
Delta R.T. -0.070 min

Lab File: VN067841.D

Acq: 21 Jul 2021 16:14

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion: 43	Resp:	8762
Ion Ratio	Lower	Upper
43	100	
61	1.5	10.6
70	0.0	8.1



#38

Carbon Tetrachloride

Concen: 6.529 ug/l

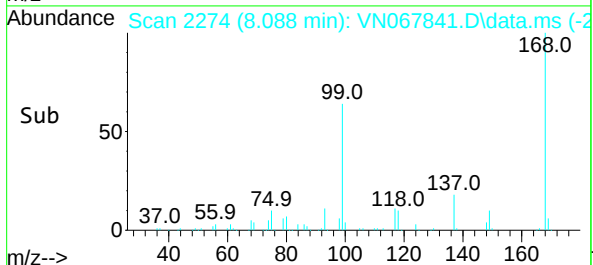
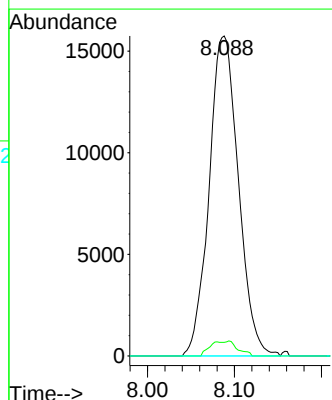
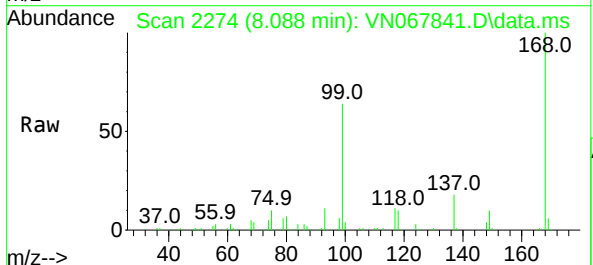
RT: 8.088 min Scan# 2274

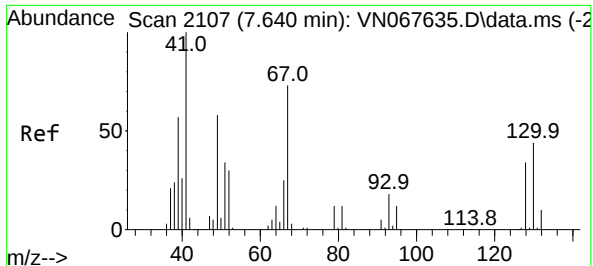
Delta R.T. -0.118 min

Lab File: VN067841.D

Acq: 21 Jul 2021 16:14

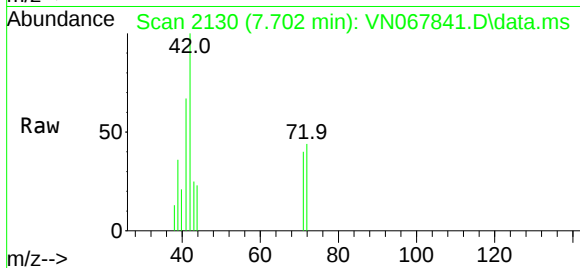
Tgt Ion: 117	Resp:	36958
Ion Ratio	Lower	Upper
117	100	
119	4.3	75.4
121	0.0	23.5



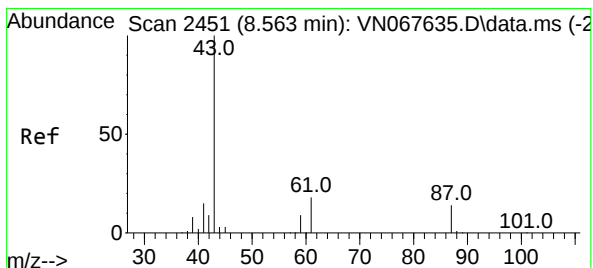
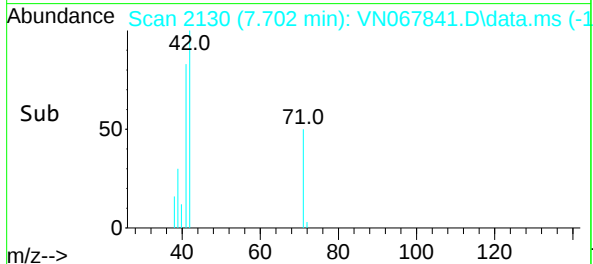
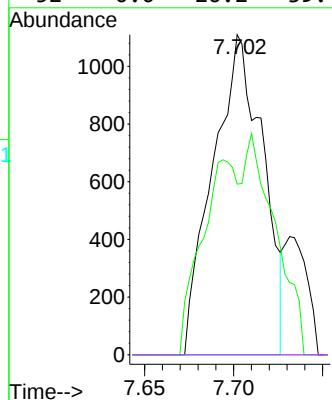


#41
Methacrylonitrile
Concen: 0.758 ug/l
RT: 7.702 min Scan# 2130
Delta R.T. 0.062 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14

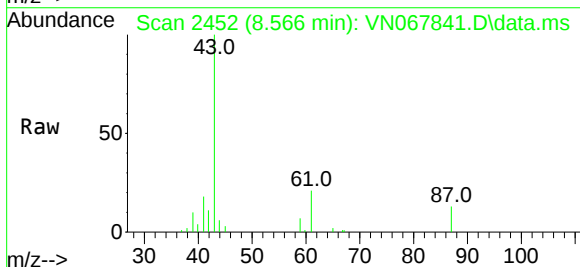
Instrument :
MSVOA_N
ClientSampled :



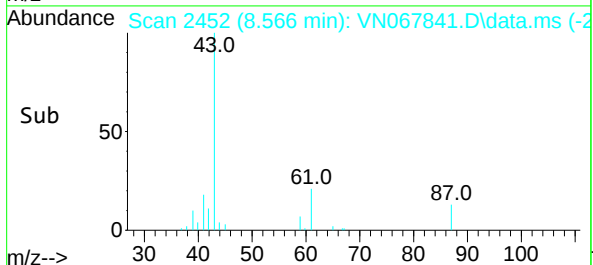
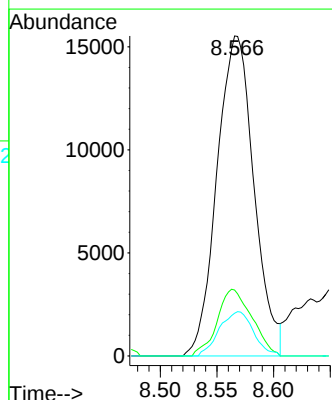
Tgt Ion:	41	Resp:	2165
Ion	Ratio	Lower	Upper
41	100		
39	41.4	47.6	71.4#
67	0.0	57.7	86.5#
52	0.0	26.2	39.4#

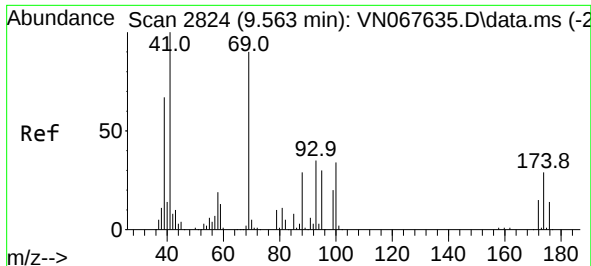


#43
Isopropyl Acetate
Concen: 3.596 ug/l
RT: 8.566 min Scan# 2452
Delta R.T. 0.003 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14



Tgt Ion:	43	Resp:	35172
Ion	Ratio	Lower	Upper
43	100		
61	19.6	19.0	28.4
87	12.8	9.5	14.3

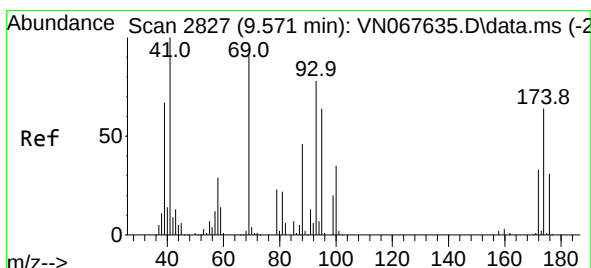
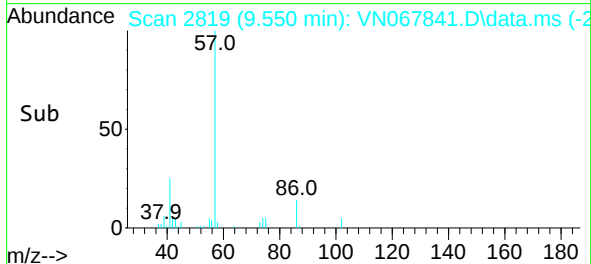
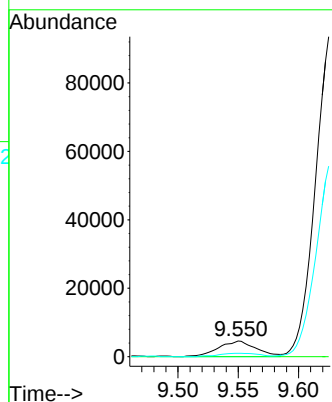
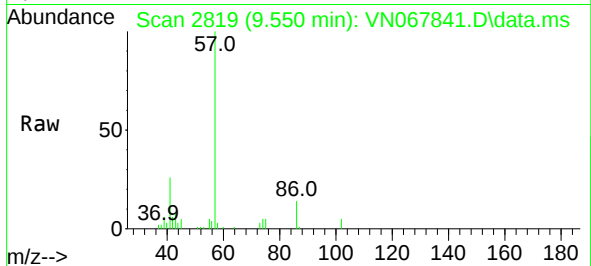




#48
Methyl methacrylate
Concen: 2.296 ug/l
RT: 9.550 min Scan# 2819
Delta R.T. -0.013 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14

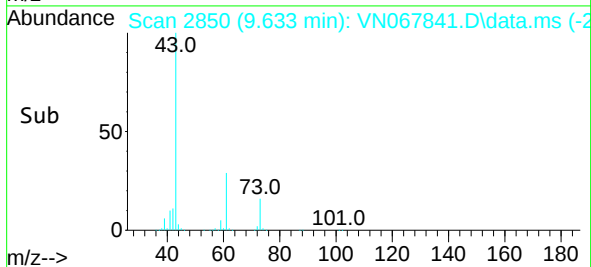
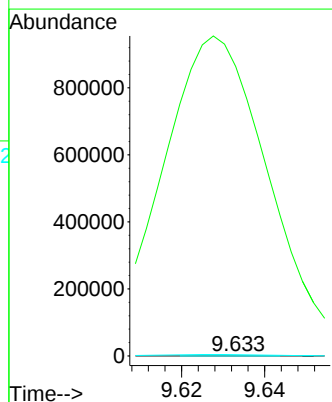
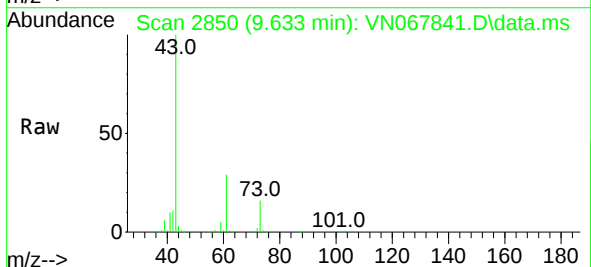
Instrument :
MSVOA_N
ClientSampleId :

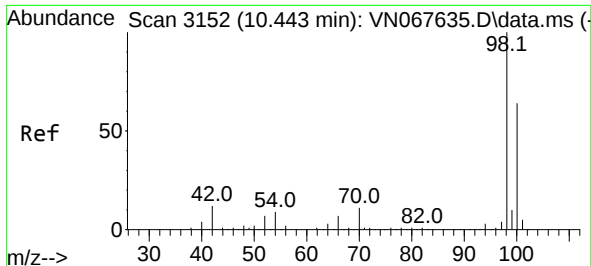
Tgt Ion: 41 Resp: 9932
Ion Ratio Lower Upper
41 100
69 0.0 64.6 96.8#
39 0.0 53.3 79.9#



#49
1,4-Dioxane
Concen: 34.281 ug/l
RT: 9.633 min Scan# 2850
Delta R.T. 0.062 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14

Tgt Ion: 88 Resp: 191
Ion Ratio Lower Upper
88 100
43 946681.7 28.8 43.2#
58 4540.8 60.4 90.6#

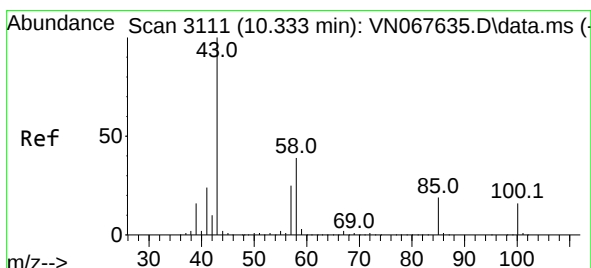
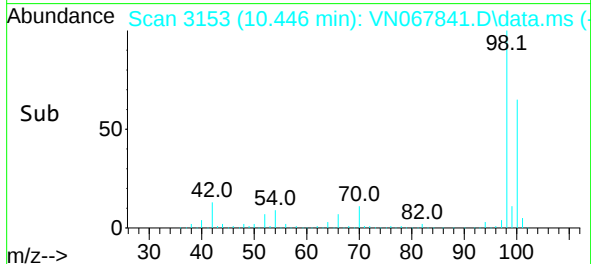
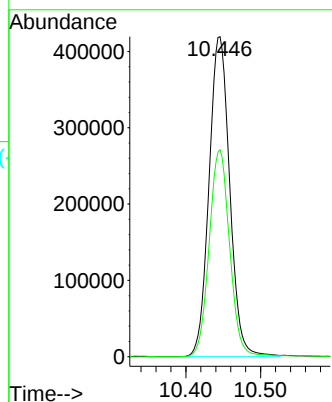
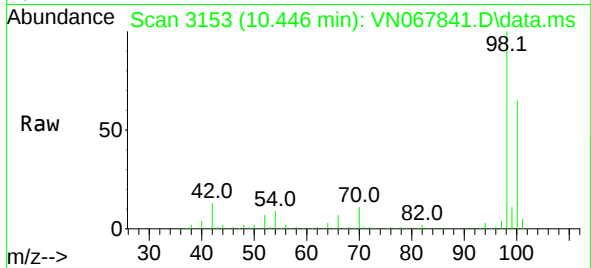




#50
Toluene-d8
Concen: 51.621 ug/l
RT: 10.446 min Scan# 3153
Delta R.T. 0.003 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14

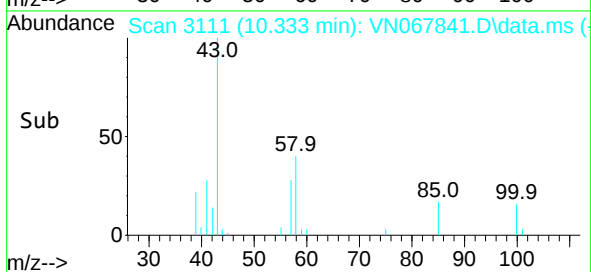
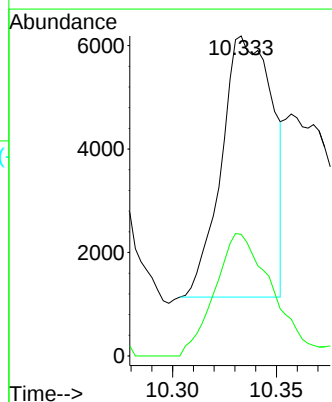
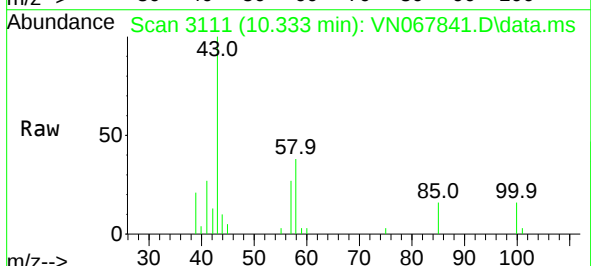
Instrument :
MSVOA_N
ClientSampled :

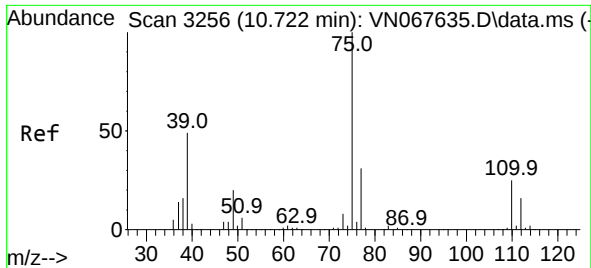
Tgt Ion: 98 Resp: 806502
Ion Ratio Lower Upper
98 100
100 64.1 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 1.434 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. -0.000 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14

Tgt Ion: 43 Resp: 8619
Ion Ratio Lower Upper
43 100
58 52.4 28.6 43.0#

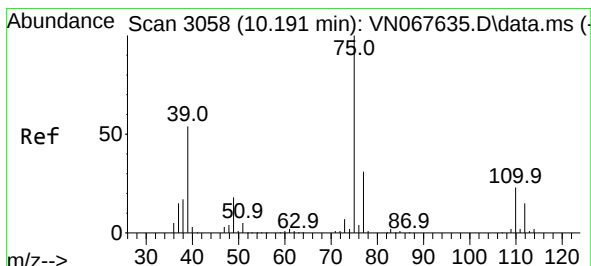
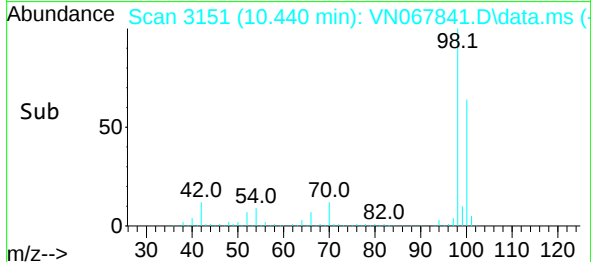
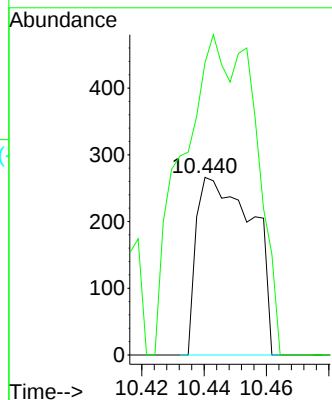
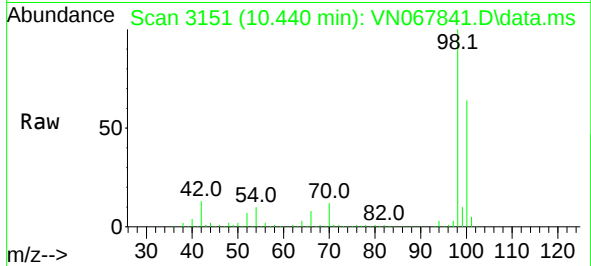




#53
t-1,3-Dichloropropene
Concen: 1.789 ug/l
RT: 10.440 min Scan# 3151
Delta R.T. -0.282 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14

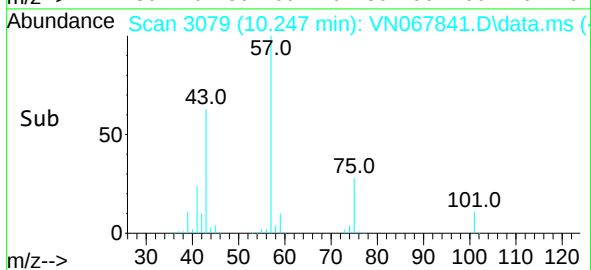
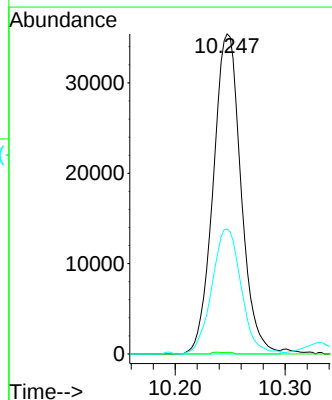
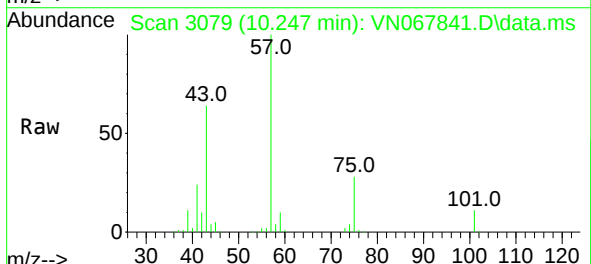
Instrument :
MSVOA_N
ClientSampled :

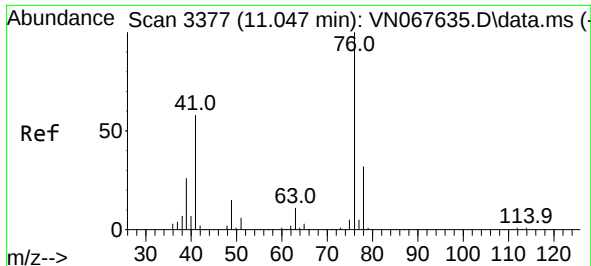
Tgt Ion: 75 Resp: 330
Ion Ratio Lower Upper
75 100
77 164.7 25.1 37.7#



#54
cis-1,3-Dichloropropene
Concen: 9.254 ug/l
RT: 10.247 min Scan# 3079
Delta R.T. 0.056 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14

Tgt Ion: 75 Resp: 62085
Ion Ratio Lower Upper
75 100
77 0.5 24.6 37.0#
39 38.5 50.7 76.1#

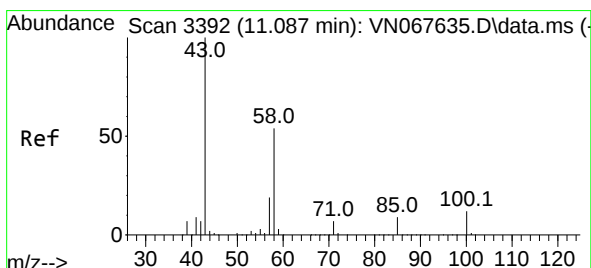
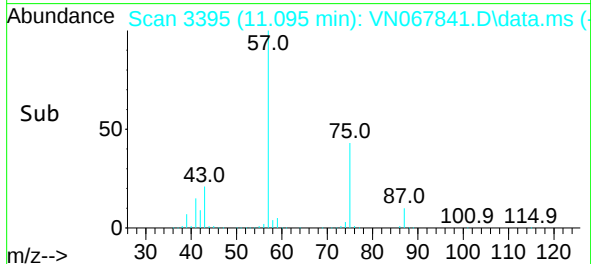
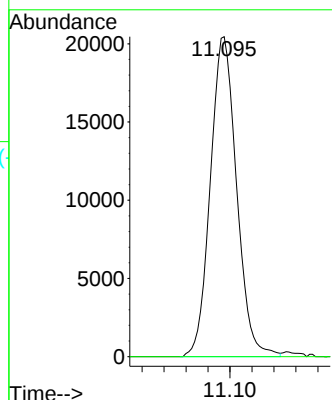
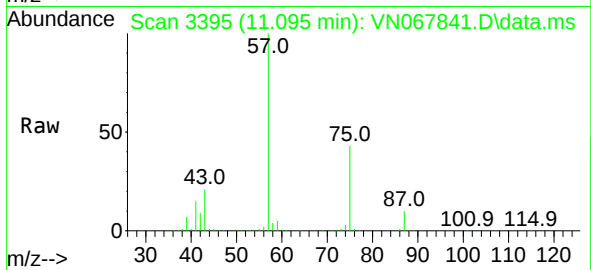




#57
1,3-Dichloropropane
Concen: 4.590 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.048 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14

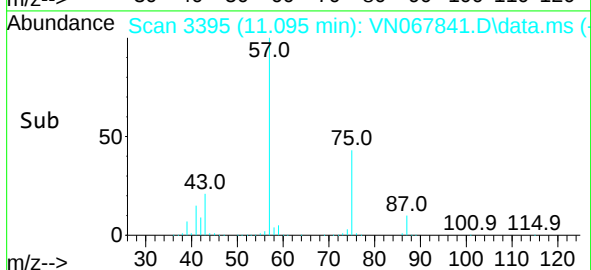
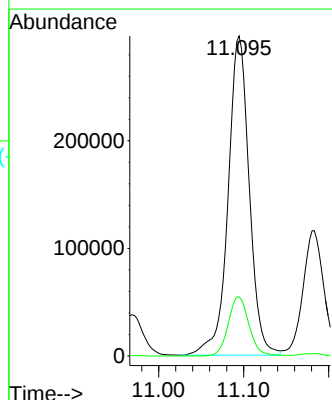
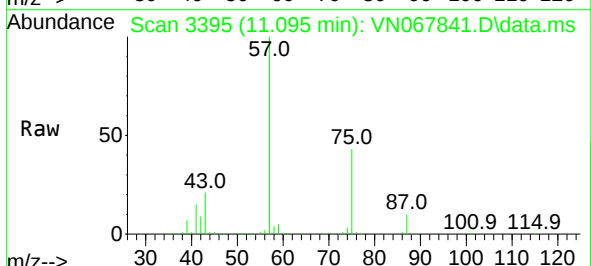
Instrument :
MSVOA_N
ClientSampleId :

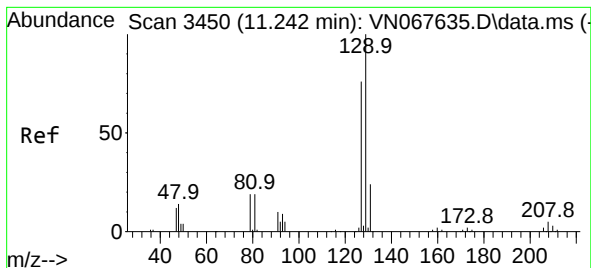
Tgt Ion: 76 Resp: 33940
Ion Ratio Lower Upper
76 100
78 0.0 25.7 38.5#



#59
2-Hexanone
Concen: 122.662 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.008 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14

Tgt Ion: 43 Resp: 514477
Ion Ratio Lower Upper
43 100
58 18.2 24.7 74.1#

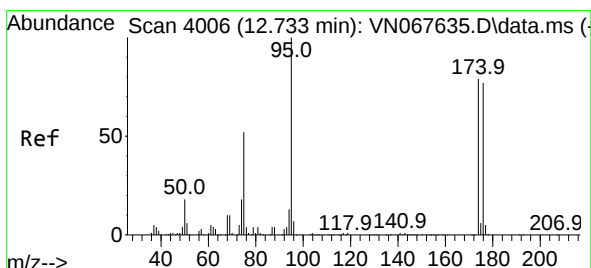
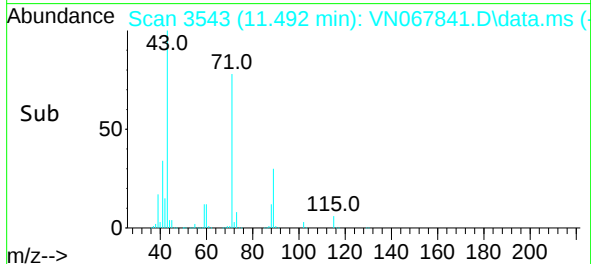
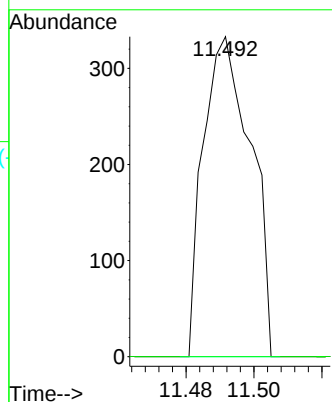
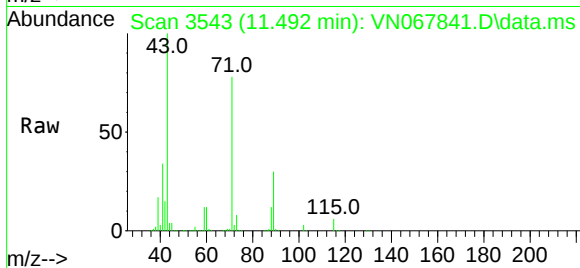




#60
Dibromochloromethane
Concen: 2.415 ug/l
RT: 11.492 min Scan# 3543
Delta R.T. 0.250 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14

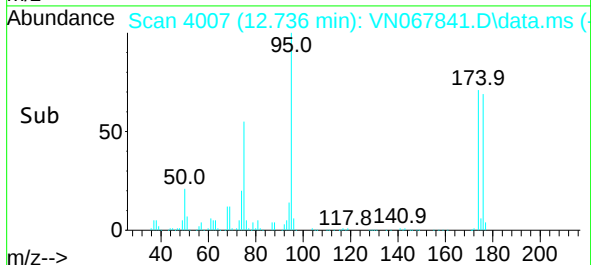
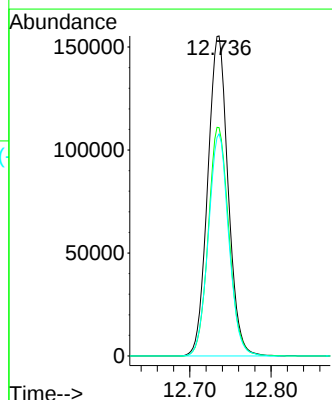
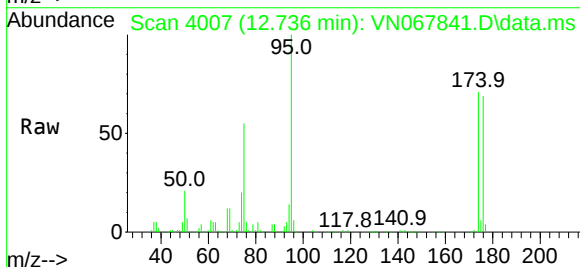
Instrument :
MSVOA_N
ClientSampleId :

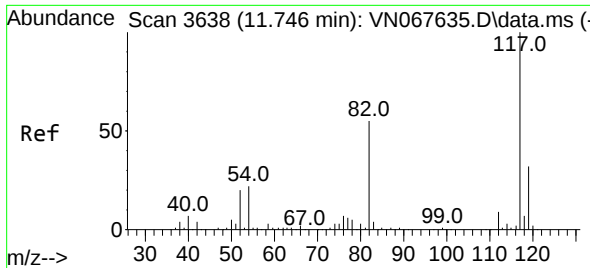
Tgt Ion:129 Resp: 323
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#



#62
4-Bromofluorobenzene
Concen: 49.014 ug/l
RT: 12.736 min Scan# 4007
Delta R.T. 0.003 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14

Tgt Ion: 95 Resp: 270509
Ion Ratio Lower Upper
95 100
174 72.4 0.0 122.0
176 69.6 0.0 117.6

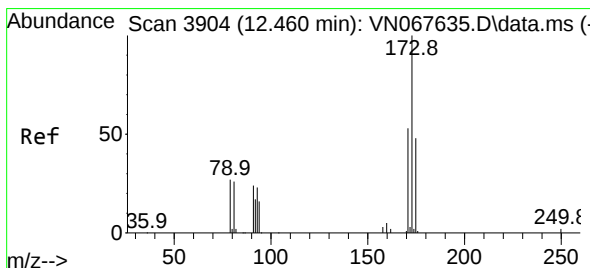
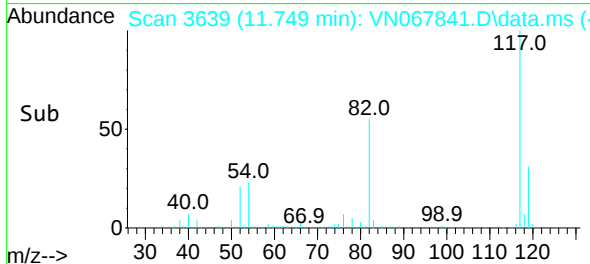
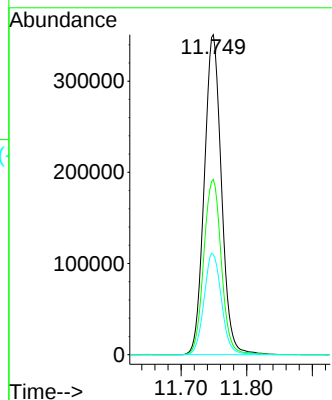
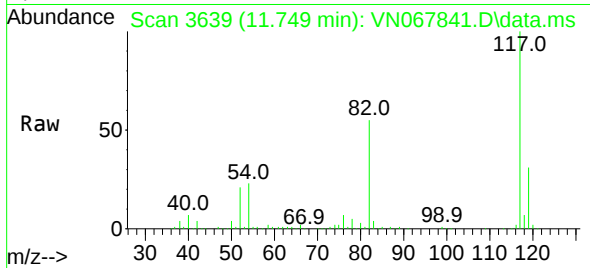




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.749 min Scan# 3639
Delta R.T. 0.003 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14

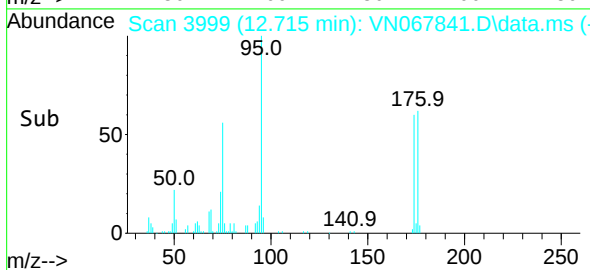
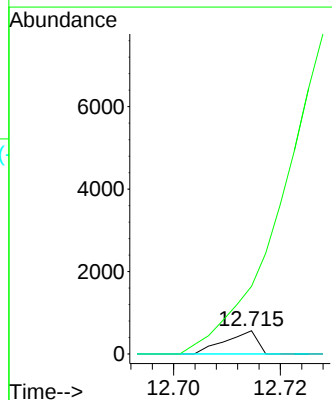
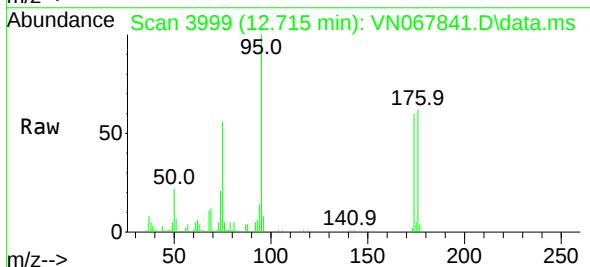
Instrument :
MSVOA_N
ClientSampleId :

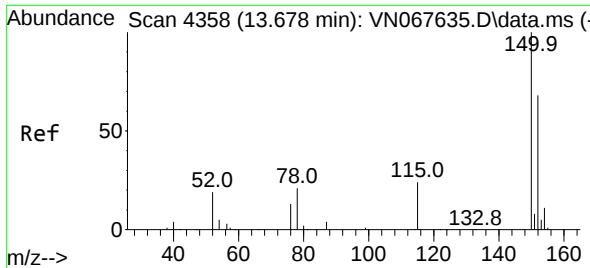
Tgt Ion:117 Resp: 638135
Ion Ratio Lower Upper
117 100
82 54.7 53.1 79.7
119 31.3 25.5 38.3



#71
Bromoform
Concen: 3.230 ug/l
RT: 12.715 min Scan# 3999
Delta R.T. 0.255 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14

Tgt Ion:173 Resp: 235
Ion Ratio Lower Upper
173 100
175 0.0 23.9 71.8#
254 0.0 0.0 0.0

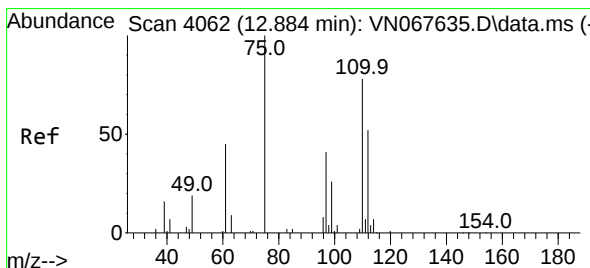
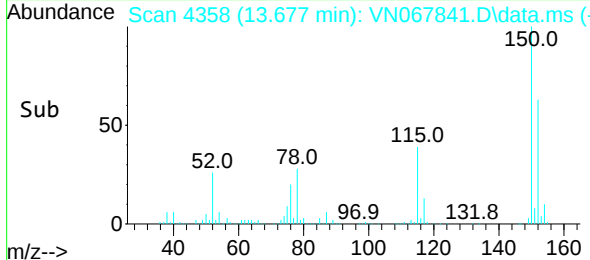
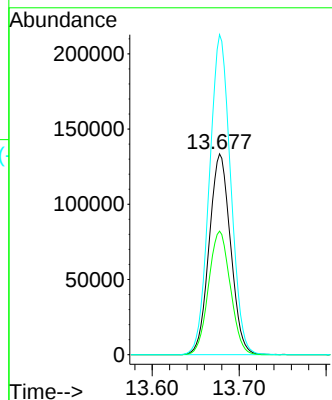
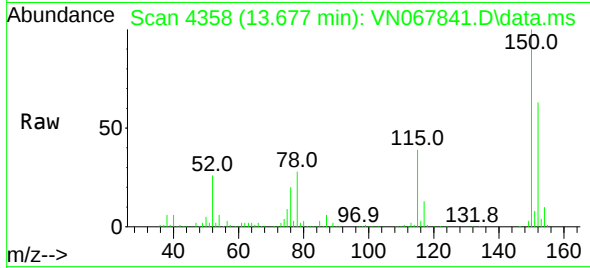




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.677 min Scan# 4358
 Delta R.T. -0.000 min
 Lab File: VN067841.D
 Acq: 21 Jul 2021 16:14

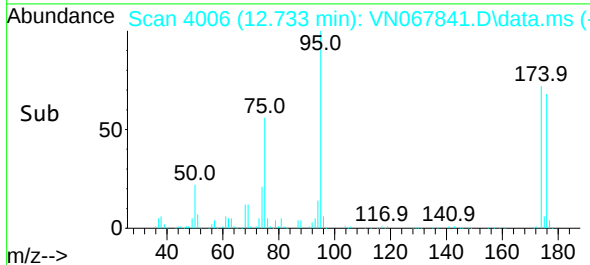
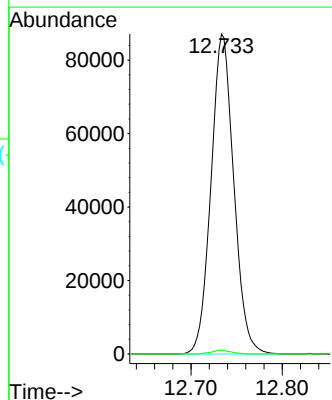
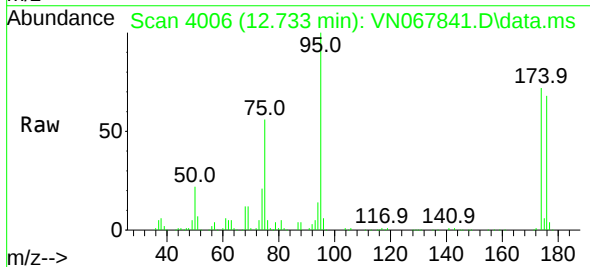
Instrument :
 MSVOA_N
 ClientSampleId :

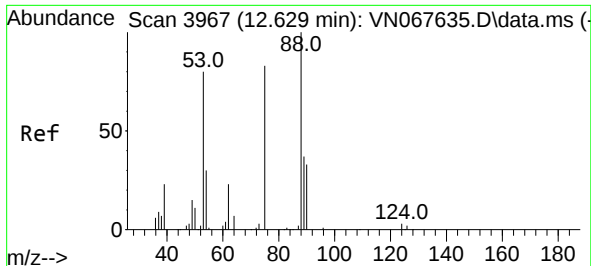
Tgt Ion:152 Resp: 228234
 Ion Ratio Lower Upper
 152 100
 115 62.6 36.1 108.5
 150 158.7 0.0 351.8



#76
 1,2,3-Trichloropropane
 Concen: 32.375 ug/l
 RT: 12.733 min Scan# 4006
 Delta R.T. -0.151 min
 Lab File: VN067841.D
 Acq: 21 Jul 2021 16:14

Tgt Ion: 75 Resp: 150896
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#

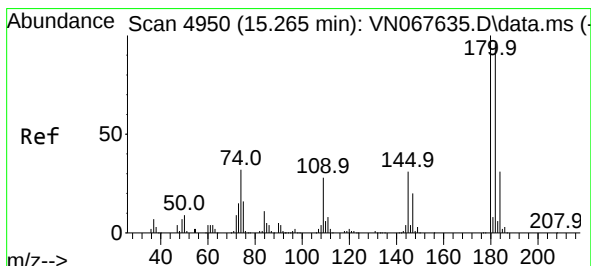
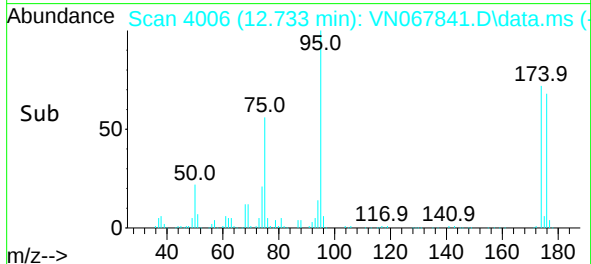
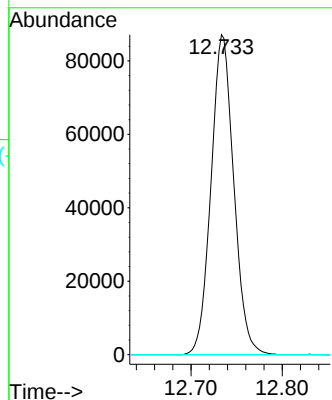
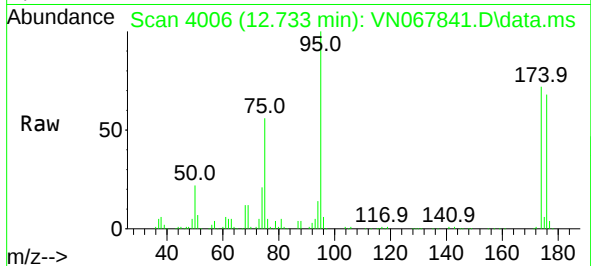




#81
trans-1,4-Dichloro-2-butene
Concen: 104.379 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.104 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14

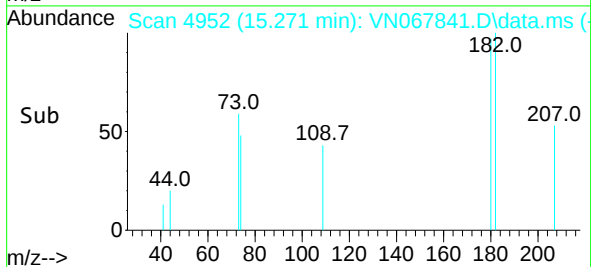
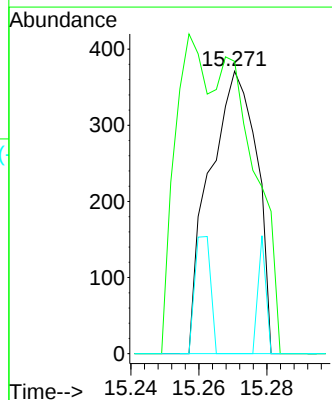
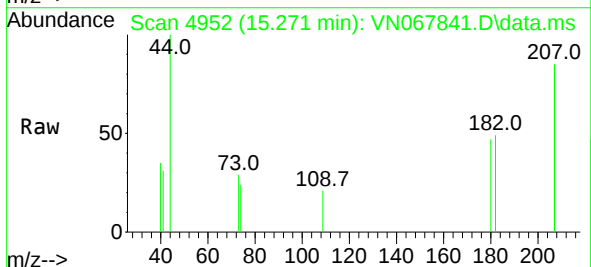
Instrument :
MSVOA_N
ClientSampled :

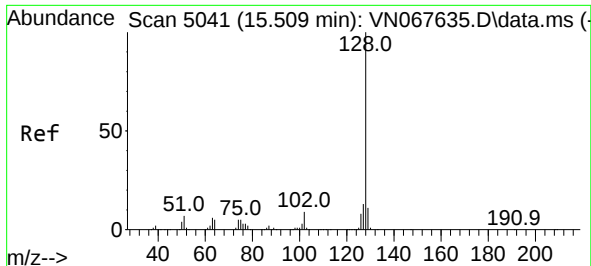
Tgt Ion: 75 Resp: 150896
Ion Ratio Lower Upper
75 100
53 0.0 87.6 131.4#
89 0.0 37.8 56.8#



#93
1,2,4-Trichlorobenzene
Concen: 2.763 ug/l
RT: 15.271 min Scan# 4952
Delta R.T. 0.005 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14

Tgt Ion:180 Resp: 358
Ion Ratio Lower Upper
180 100
182 0.0 47.5 142.5#
145 7.0 17.2 51.6#

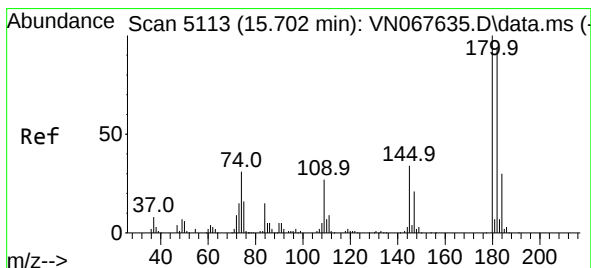
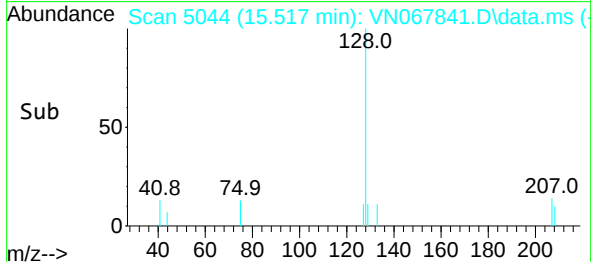
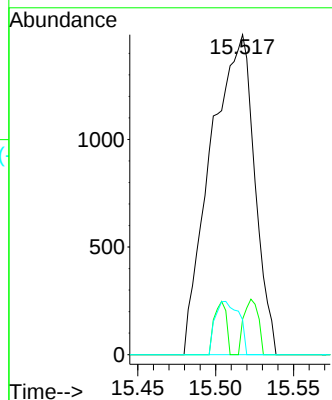
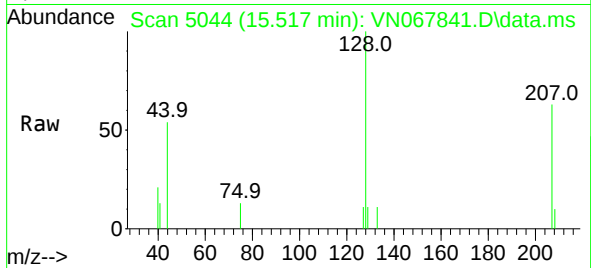




#95
Naphthalene
Concen: 3.257 ug/l
RT: 15.517 min Scan# 5044
Delta R.T. 0.008 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion:128 Resp: 2913
Ion Ratio Lower Upper
128 100
127 5.7 10.6 15.8#
129 0.0 8.6 12.8#



#96
1,2,3-Trichlorobenzene
Concen: 2.710 ug/l
RT: 15.702 min Scan# 5113
Delta R.T. 0.000 min
Lab File: VN067841.D
Acq: 21 Jul 2021 16:14

Tgt Ion:180 Resp: 299
Ion Ratio Lower Upper
180 100
182 123.7 47.8 143.3
145 8.4 18.2 54.6#

