

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122921\
 Data File : VN070347.D
 Acq On : 29 Dec 2021 14:33
 Operator : JC/MD
 Sample : M5115-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 30 01:50:19 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122721W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 27 18:47:12 2021
 Response via : Initial Calibration

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

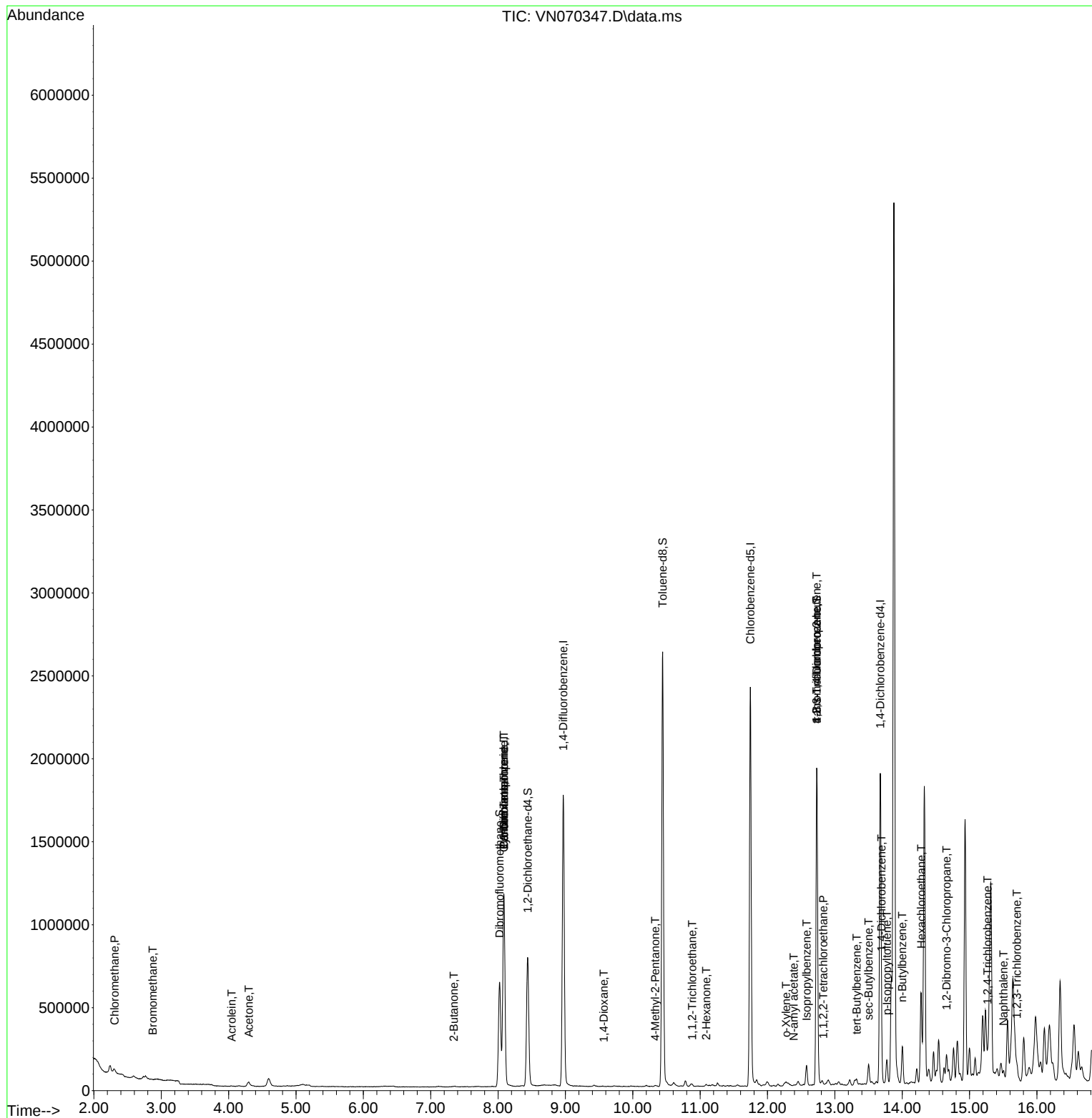
Internal Standards						
1) Pentafluorobenzene	8.086	168	885197	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	1497094	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.746	117	1369878	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	517149	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	664553	52.214	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 104.420%			
35) Dibromofluoromethane	8.021	113	466852	51.539	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 103.080%			
50) Toluene-d8	10.443	98	1786093	48.268	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 96.540%			
62) 4-Bromofluorobenzene	12.731	95	672330	50.306	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 100.620%			
Target Compounds						Qvalue
3) Chloromethane	2.306	50	3991	0.292	ug/l	96
5) Bromomethane	2.875	94	1896	0.295	ug/l	95
13) Acrolein	4.044	56	1167	0.679	ug/l #	64
16) Acetone	4.299	43	44879	5.432	ug/l	98
25) 2-Butanone	7.343	43	2601	0.250	ug/l #	77
31) Cyclohexane	8.088	56	20644	1.028	ug/l #	12
36) 1,1-Dichloropropene	8.086	75	72775	4.857	ug/l #	43
38) Carbon Tetrachloride	8.086	117	88105	6.157	ug/l #	16
49) 1,4-Dioxane	9.571	88	52	0.243	ug/l #	27
51) 4-Methyl-2-Pentanone	10.333	43	3983	0.207	ug/l #	66
55) 1,1,2-Trichloroethane	10.883	97	3587	0.326	ug/l #	20
59) 2-Hexanone	11.089	43	8934	0.637	ug/l	88
69) o-Xylene	12.278	106	4083	0.212	ug/l	69
73) Isopropylbenzene	12.581	105	77149	1.606	ug/l	100
74) N-amyl acetate	12.390	43	4079	0.202	ug/l #	92
75) 1,1,2,2-Tetrachloroethane	12.827	83	793	0.492	ug/l #	85
76) 1,2,3-Trichloropropane	12.731	75	360977	25.022	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	360977	85.281	ug/l #	5
83) tert-Butylbenzene	13.323	119	14334	0.423	ug/l	98
85) sec-Butylbenzene	13.501	105	77177	1.677	ug/l	99
86) p-Isopropyltoluene	13.771	119	78524	2.173	ug/l	96
88) 1,4-Dichlorobenzene	13.694	146	4453	0.245	ug/l #	1
89) n-Butylbenzene	14.002	91	20331	0.674	ug/l #	1
90) Hexachloroethane	14.281	117	232945	37.102	ug/l #	6
92) 1,2-Dibromo-3-Chloropr...	14.656	75	1003	0.361	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.268	180	6505	0.763	ug/l #	1
95) Naphthalene	15.504	128	38812	3.385	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.702	180	8340	1.832	ug/l #	80

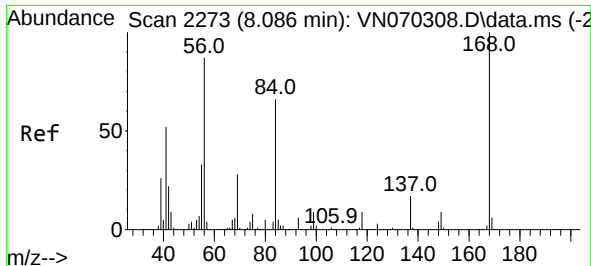
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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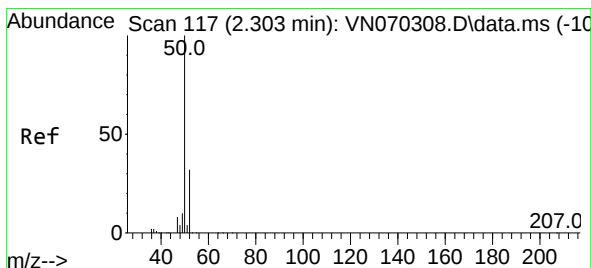
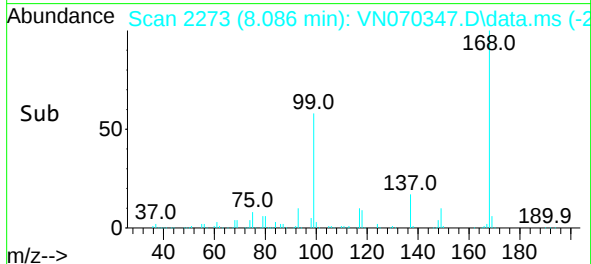
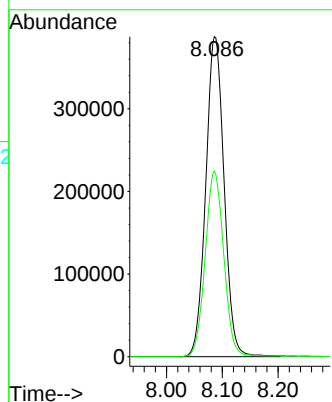
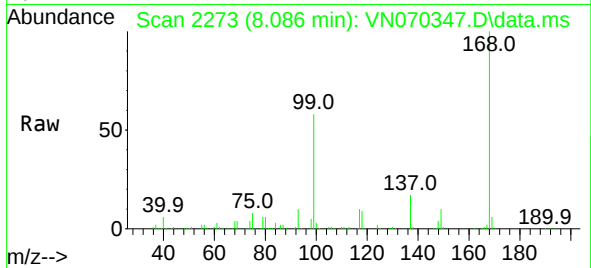




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN070347.D
Acq: 29 Dec 2021 14:33

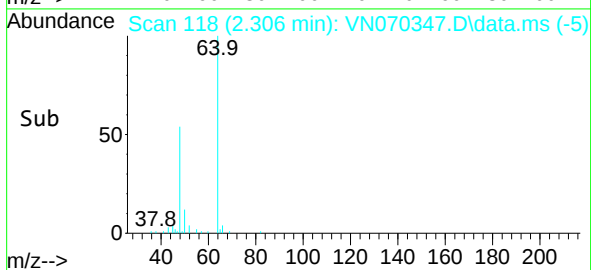
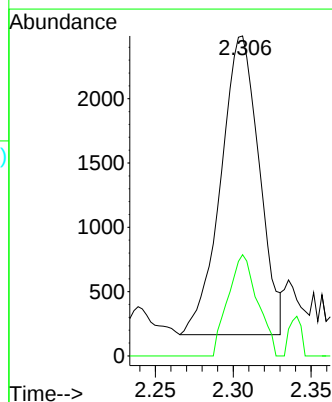
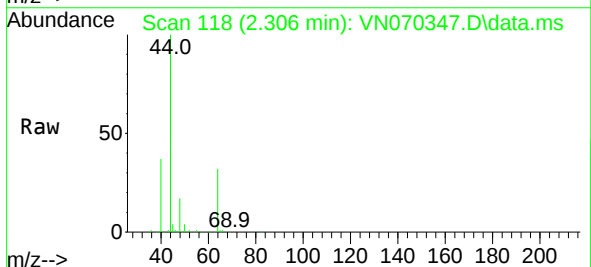
Instrument :
MSVOA_N
ClientSampleId :

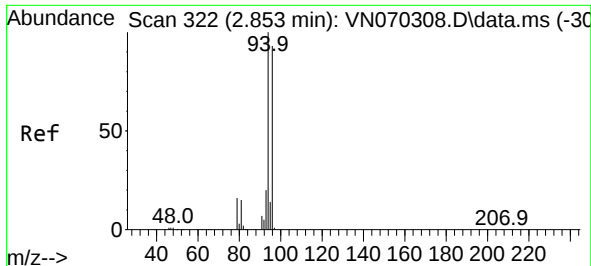
Tgt Ion:168 Resp: 885197
Ion Ratio Lower Upper
168 100
99 58.1 41.3 61.9



#3
Chloromethane
Concen: 0.292 ug/l
RT: 2.306 min Scan# 118
Delta R.T. 0.003 min
Lab File: VN070347.D
Acq: 29 Dec 2021 14:33

Tgt Ion: 50 Resp: 3991
Ion Ratio Lower Upper
50 100
52 33.9 25.4 38.0

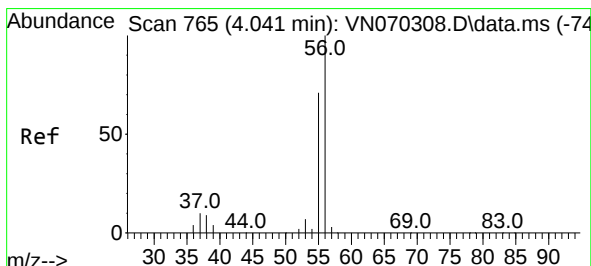
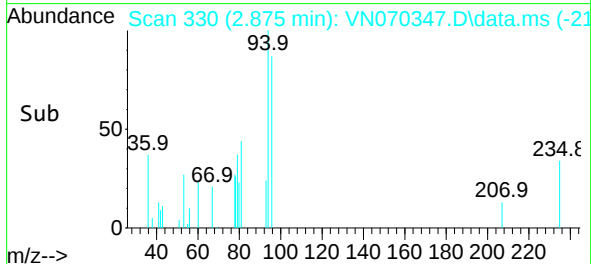
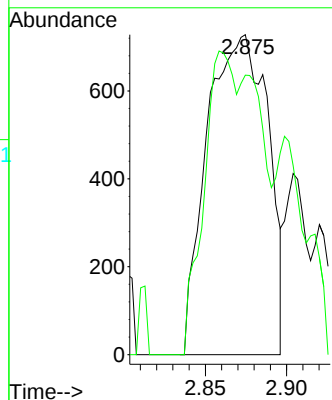
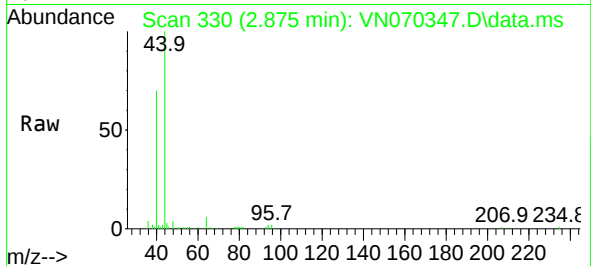




#5
Bromomethane
Concen: 0.295 ug/l
RT: 2.875 min Scan# 31
Delta R.T. 0.022 min
Lab File: VN070347.D
Acq: 29 Dec 2021 14:33

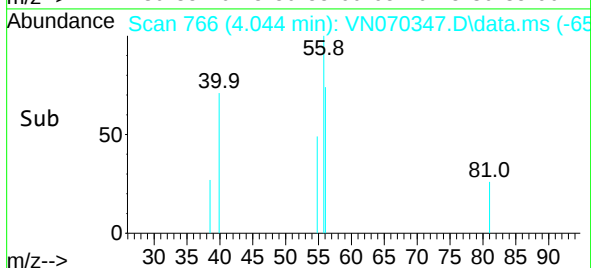
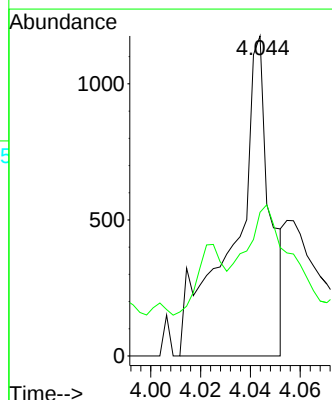
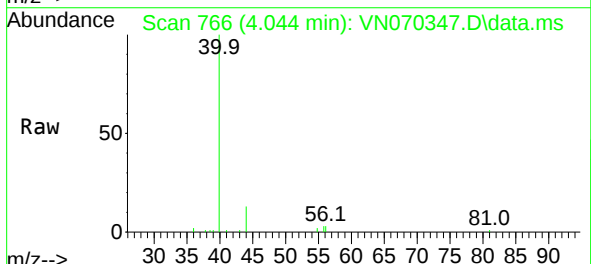
Instrument :
MSVOA_N
ClientSampleId :

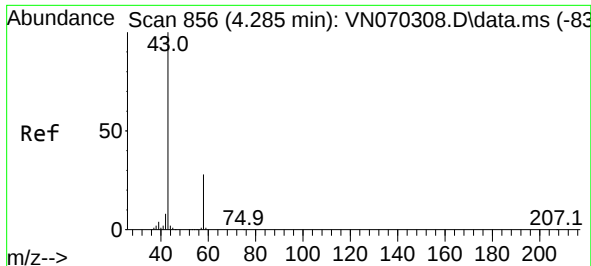
Tgt Ion: 94 Resp: 1896
Ion Ratio Lower Upper
94 100
96 87.4 73.8 110.8



#13
Acrolein
Concen: 0.679 ug/l
RT: 4.044 min Scan# 766
Delta R.T. 0.003 min
Lab File: VN070347.D
Acq: 29 Dec 2021 14:33

Tgt Ion: 56 Resp: 1167
Ion Ratio Lower Upper
56 100
55 40.8 56.6 85.0#

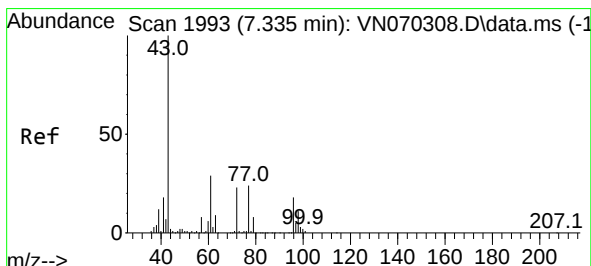
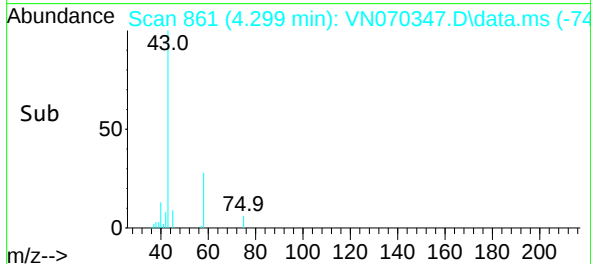
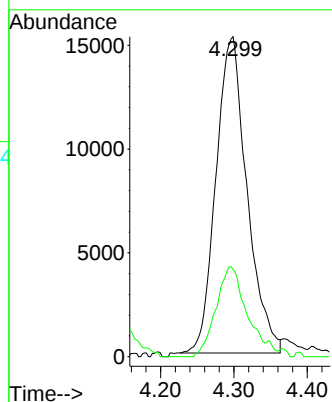
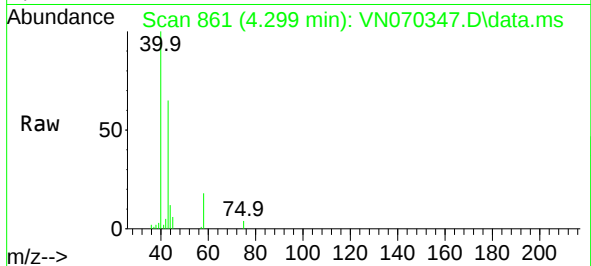




#16
Acetone
Concen: 5.432 ug/l
RT: 4.299 min Scan# 80
Delta R.T. 0.014 min
Lab File: VN070347.D
Acq: 29 Dec 2021 14:33

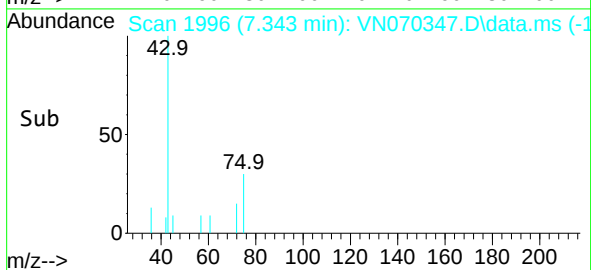
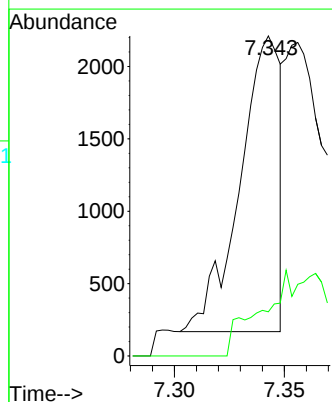
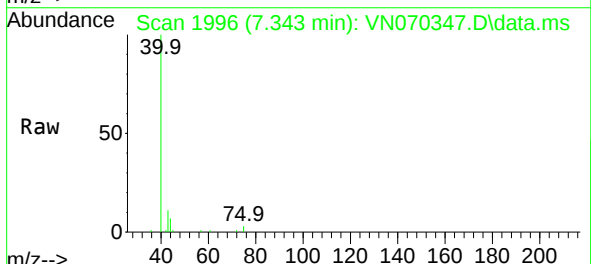
Instrument :
MSVOA_N
ClientSampleId :

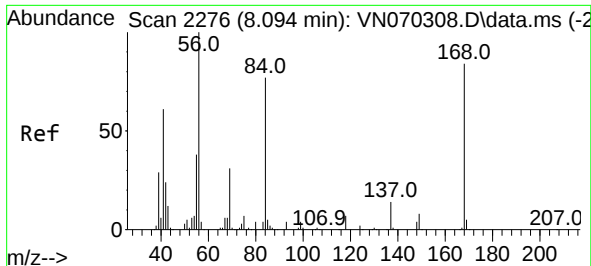
Tgt Ion: 43 Resp: 44879
Ion Ratio Lower Upper
43 100
58 27.6 23.1 34.7



#25
2-Butanone
Concen: 0.250 ug/l
RT: 7.343 min Scan# 1996
Delta R.T. 0.008 min
Lab File: VN070347.D
Acq: 29 Dec 2021 14:33

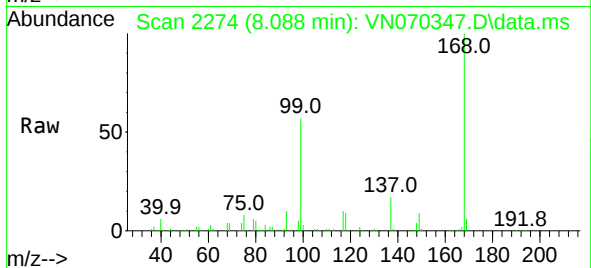
Tgt Ion: 43 Resp: 2601
Ion Ratio Lower Upper
43 100
72 14.9 21.7 32.5#



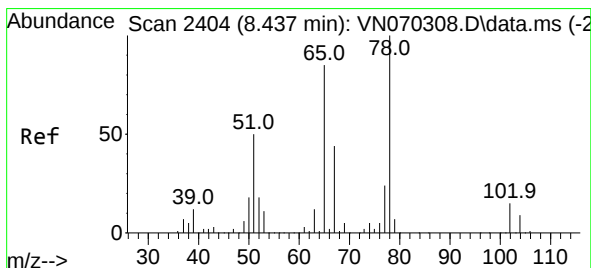
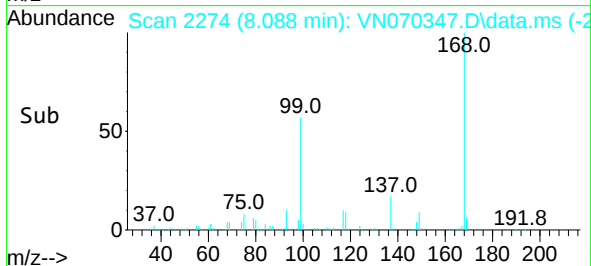
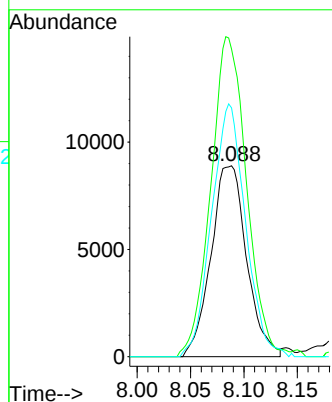


#31
Cyclohexane
Concen: 1.028 ug/l
RT: 8.088 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN070347.D
Acq: 29 Dec 2021 14:33

Instrument :
MSVOA_N
ClientSampleId :

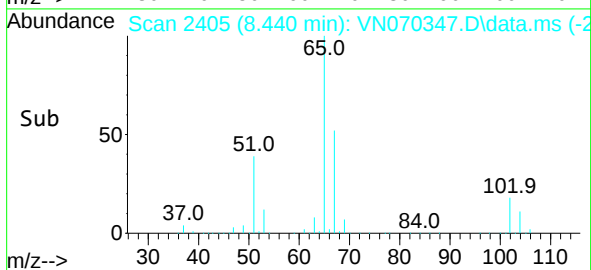
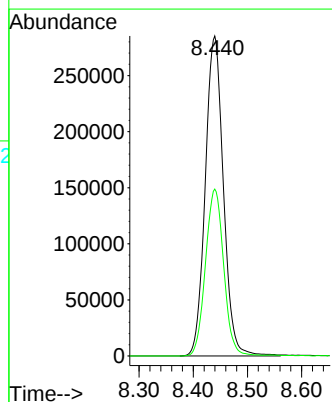
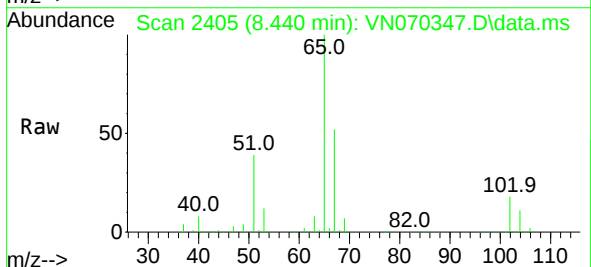


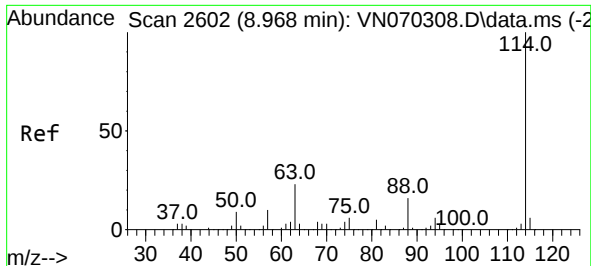
Tgt Ion: 56 Resp: 20644
Ion Ratio Lower Upper
56 100
69 158.5 27.1 40.7#
84 130.4 73.4 110.0#



#33
1,2-Dichloroethane-d4
Concen: 52.214 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VN070347.D
Acq: 29 Dec 2021 14:33

Tgt Ion: 65 Resp: 664553
Ion Ratio Lower Upper
65 100
67 52.3 0.0 103.0

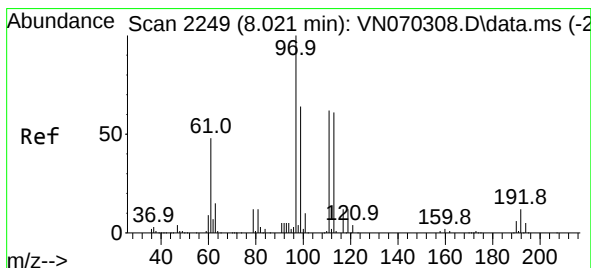
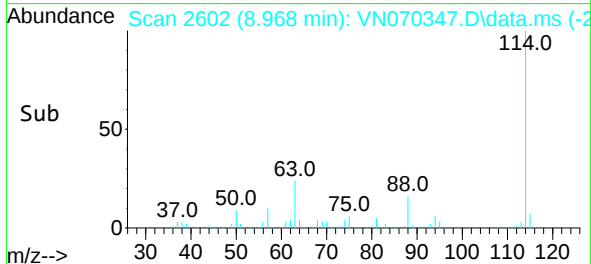
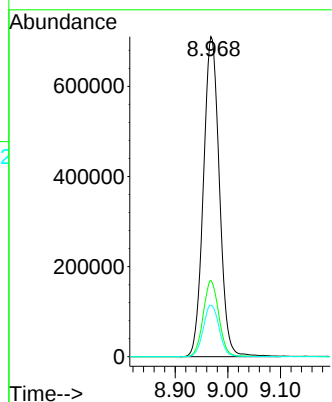
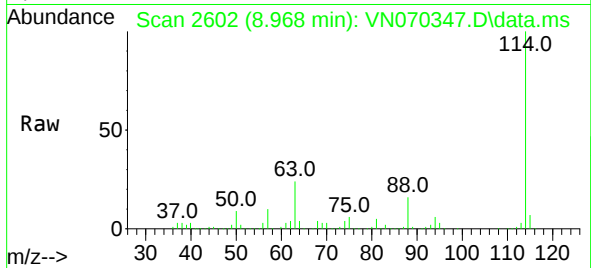




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.968 min Scan# 2602
Delta R.T. -0.000 min
Lab File: VN070347.D
Acq: 29 Dec 2021 14:33

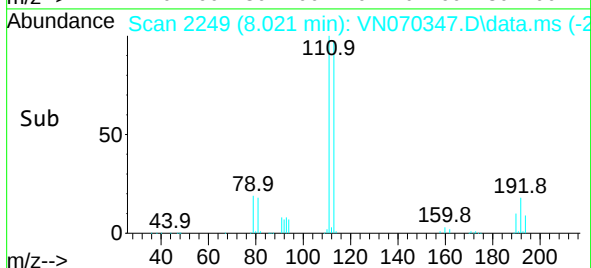
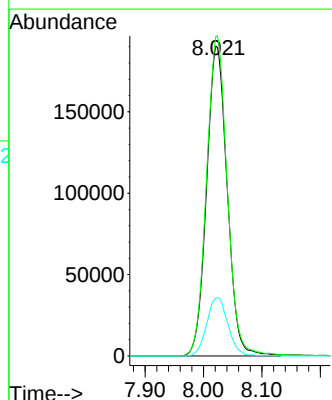
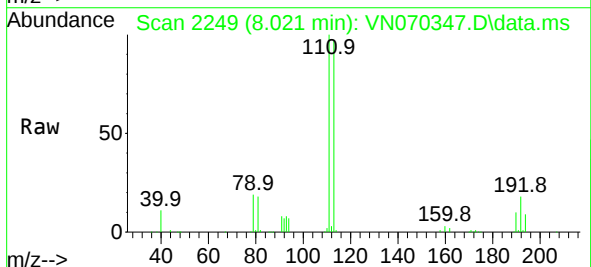
Instrument :
MSVOA_N
ClientSampleId :

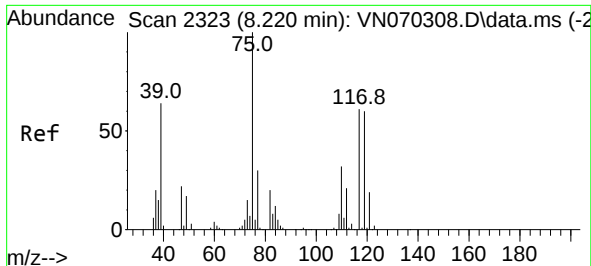
Tgt Ion:114 Resp: 1497094
Ion Ratio Lower Upper
114 100
63 23.8 0.0 37.8
88 16.1 0.0 27.4



#35
Dibromofluoromethane
Concen: 51.539 ug/l
RT: 8.021 min Scan# 2249
Delta R.T. 0.000 min
Lab File: VN070347.D
Acq: 29 Dec 2021 14:33

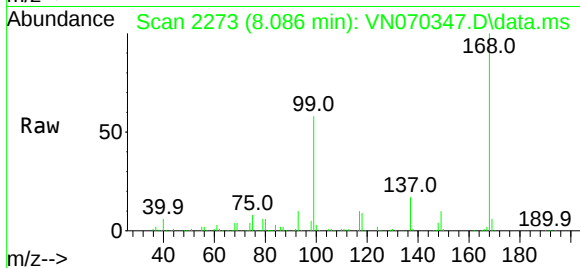
Tgt Ion:113 Resp: 466852
Ion Ratio Lower Upper
113 100
111 103.5 82.2 123.2
192 19.4 16.9 25.3



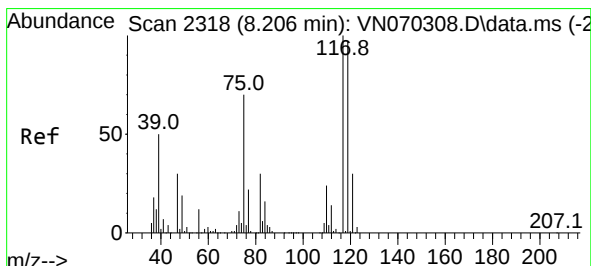
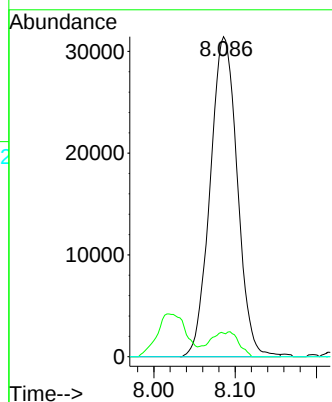
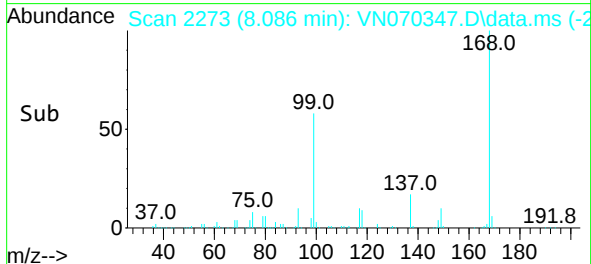


#36
 1,1-Dichloropropene
 Concen: 4.857 ug/l
 RT: 8.086 min Scan# 21
 Delta R.T. -0.134 min
 Lab File: VN070347.D
 Acq: 29 Dec 2021 14:33

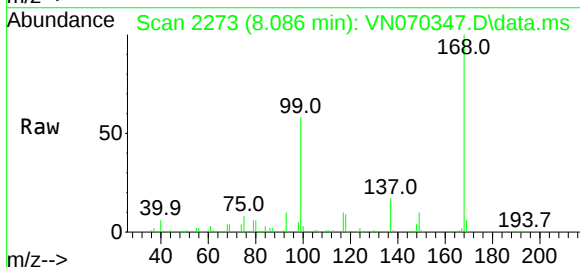
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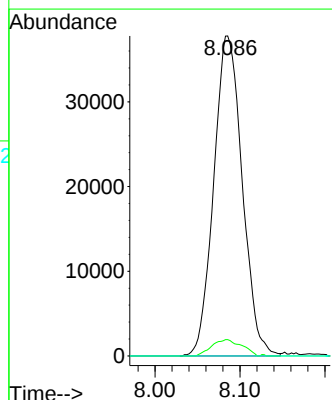
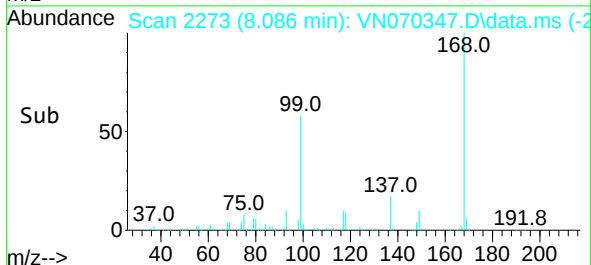
Tgt Ion: 75 Resp: 72775
 Ion Ratio Lower Upper
 75 100
 110 1.9 18.4 55.2#
 77 0.0 24.4 36.6#

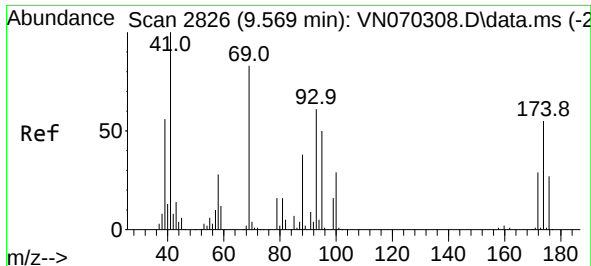


#38
 Carbon Tetrachloride
 Concen: 6.157 ug/l
 RT: 8.086 min Scan# 2273
 Delta R.T. -0.120 min
 Lab File: VN070347.D
 Acq: 29 Dec 2021 14:33



Tgt Ion: 117 Resp: 88105
 Ion Ratio Lower Upper
 117 100
 119 5.1 76.1 114.1#
 121 0.0 24.2 36.2#





#49

1,4-Dioxane

Concen: 0.243 ug/l

RT: 9.571 min Scan# 21

Delta R.T. 0.002 min

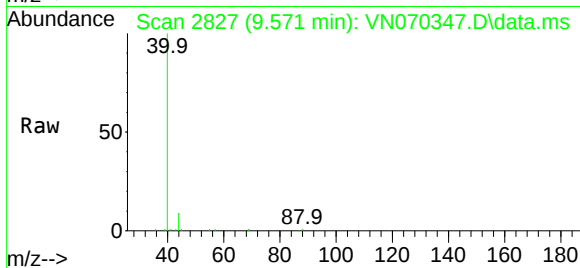
Lab File: VN070347.D

Acq: 29 Dec 2021 14:33

Instrument :

MSVOA_N

ClientSampleId :



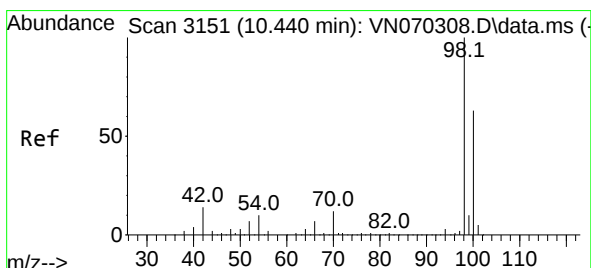
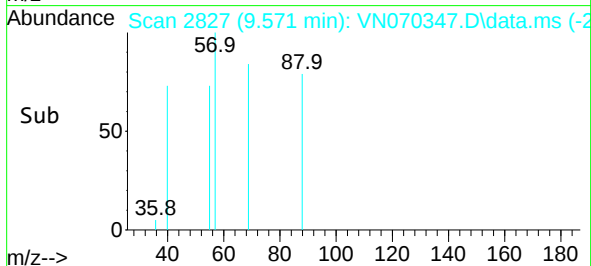
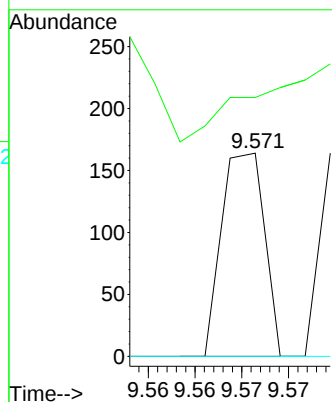
Tgt Ion: 88 Resp: 52

Ion Ratio Lower Upper

88 100

43 0.0 23.4 35.2#

58 0.0 50.6 75.8#



#50

Toluene-d8

Concen: 48.268 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.003 min

Lab File: VN070347.D

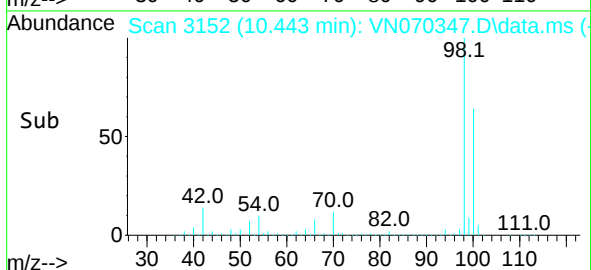
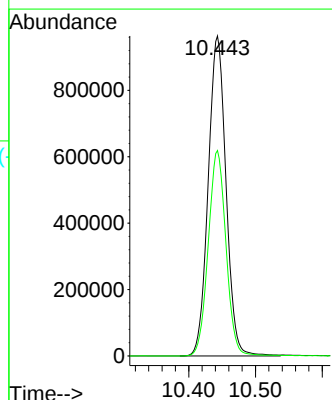
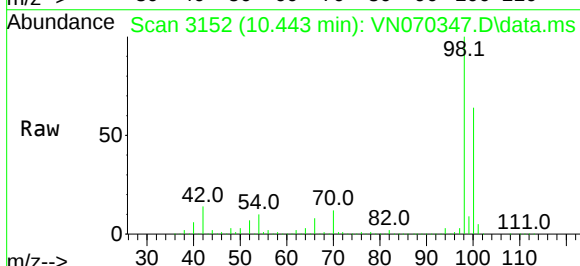
Acq: 29 Dec 2021 14:33

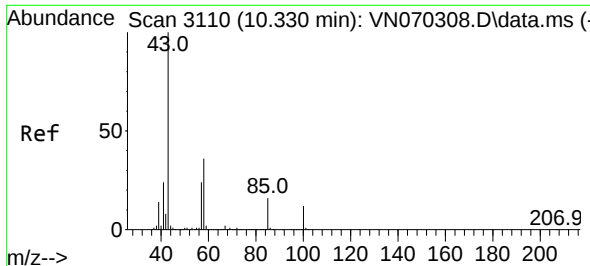
Tgt Ion: 98 Resp: 1786093

Ion Ratio Lower Upper

98 100

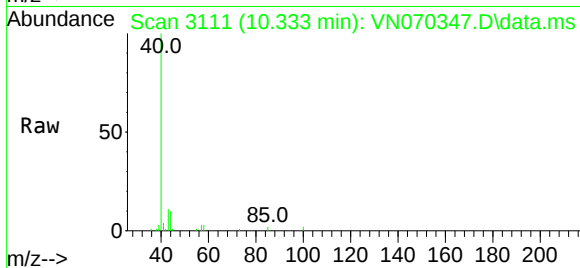
100 63.9 50.4 75.6



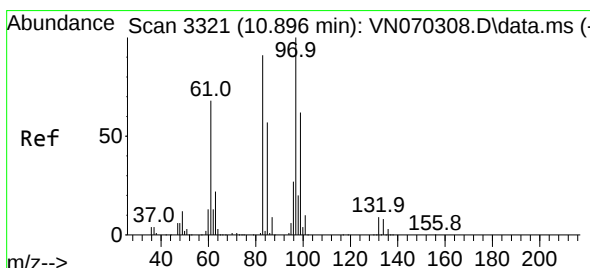
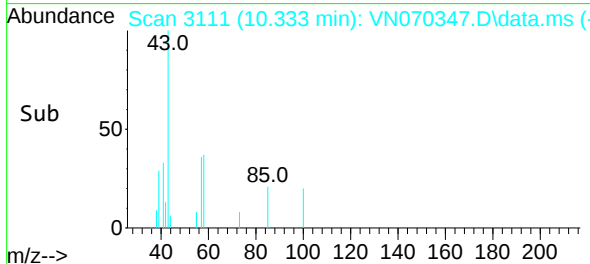
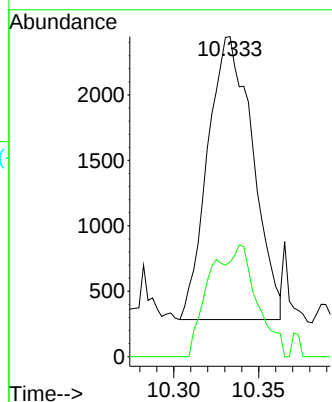


#51
4-Methyl-2-Pentanone
Concen: 0.207 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.003 min
Lab File: VN070347.D
Acq: 29 Dec 2021 14:33

Instrument :
MSVOA_N
ClientSampleId :

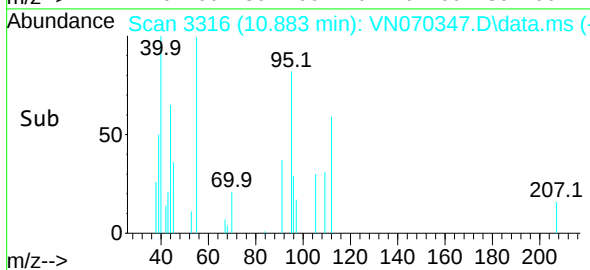
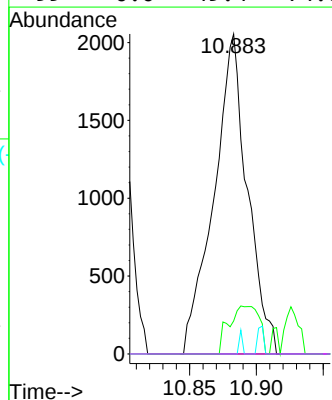
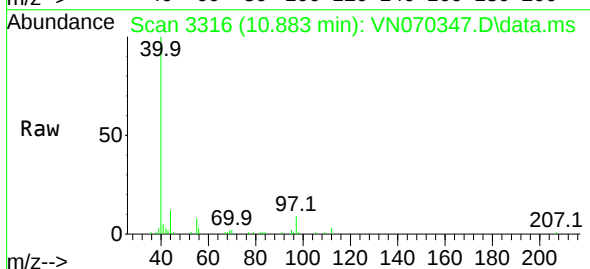


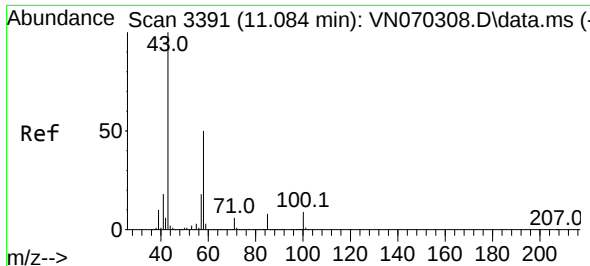
Tgt Ion: 43 Resp: 3983
Ion Ratio Lower Upper
43 100
58 17.5 30.4 45.6#



#55
1,1,2-Trichloroethane
Concen: 0.326 ug/l
RT: 10.883 min Scan# 3316
Delta R.T. -0.013 min
Lab File: VN070347.D
Acq: 29 Dec 2021 14:33

Tgt Ion: 97 Resp: 3587
Ion Ratio Lower Upper
97 100
83 10.3 67.8 101.6#
85 0.0 45.4 68.2#
99 0.0 49.4 74.0#

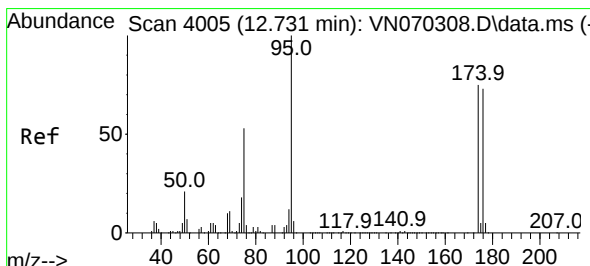
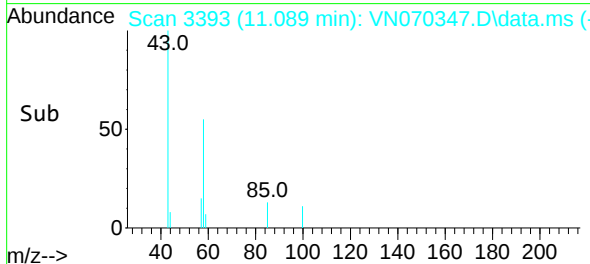
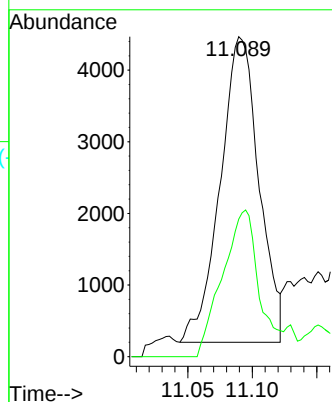
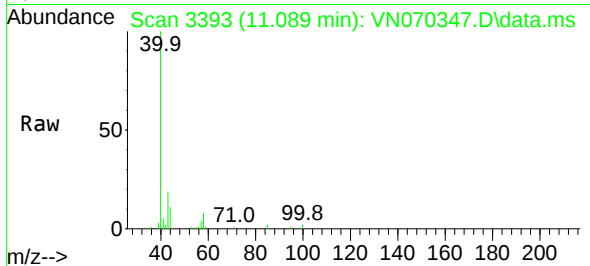




#59
2-Hexanone
Concen: 0.637 ug/l
RT: 11.089 min Scan# 31
Delta R.T. 0.005 min
Lab File: VN070347.D
Acq: 29 Dec 2021 14:33

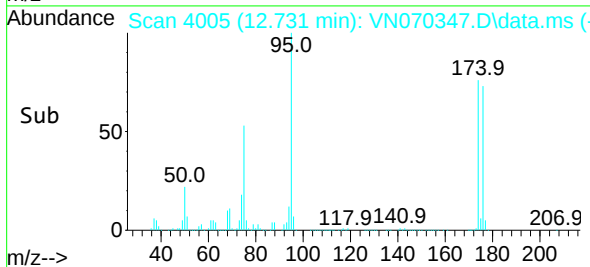
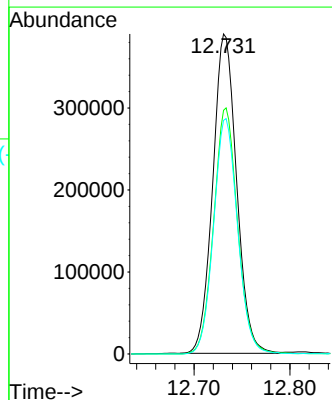
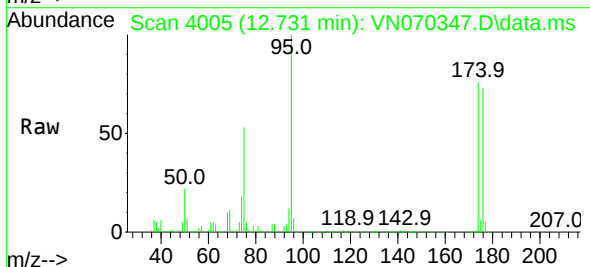
Instrument :
MSVOA_N
ClientSampleId :

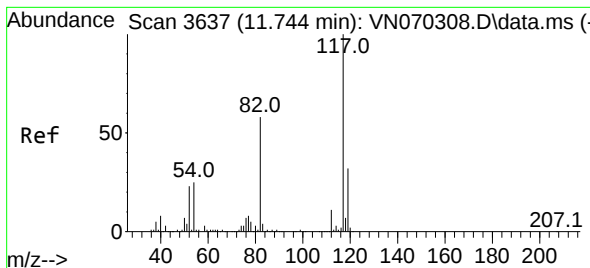
Tgt Ion: 43 Resp: 8934
Ion Ratio Lower Upper
43 100
58 45.5 26.9 80.7



#62
4-Bromofluorobenzene
Concen: 50.306 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN070347.D
Acq: 29 Dec 2021 14:33

Tgt Ion: 95 Resp: 672330
Ion Ratio Lower Upper
95 100
174 77.3 0.0 187.2
176 74.2 0.0 181.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.746 min Scan# 3

Delta R.T. 0.002 min

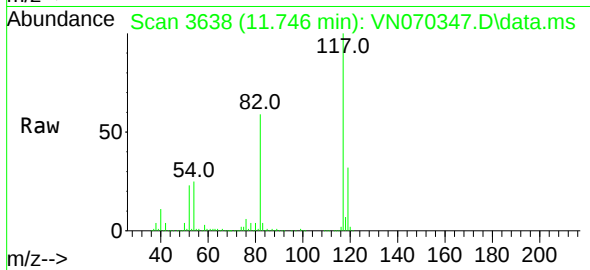
Lab File: VN070347.D

Acq: 29 Dec 2021 14:33

Instrument :

MSVOA_N

ClientSampleId :



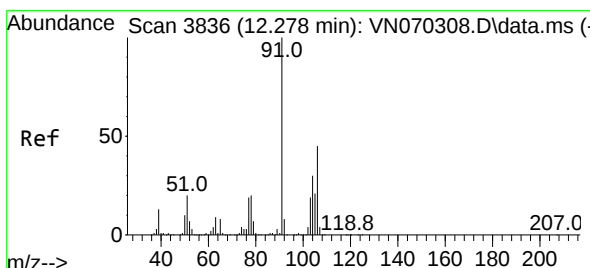
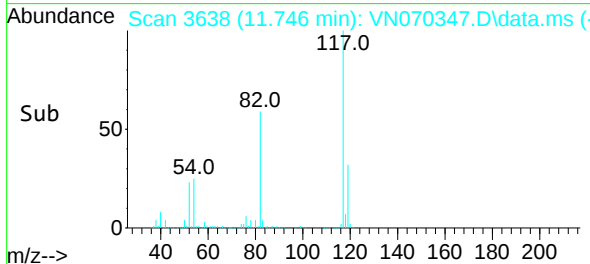
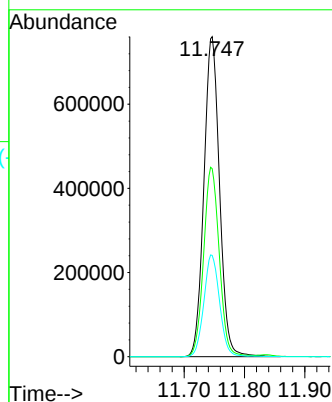
Tgt Ion:117 Resp: 1369878

Ion Ratio Lower Upper

117 100

82 58.8 42.4 63.6

119 31.7 25.4 38.2



#69

o-Xylene

Concen: 0.212 ug/l

RT: 12.278 min Scan# 3836

Delta R.T. -0.000 min

Lab File: VN070347.D

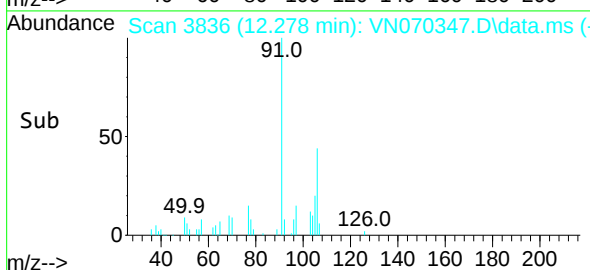
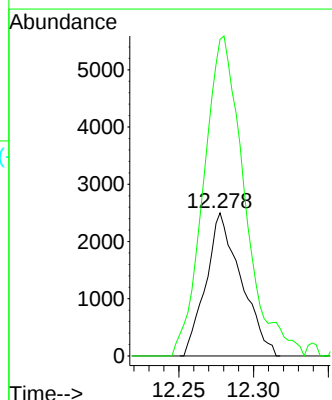
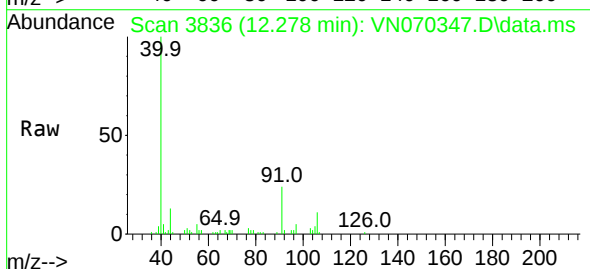
Acq: 29 Dec 2021 14:33

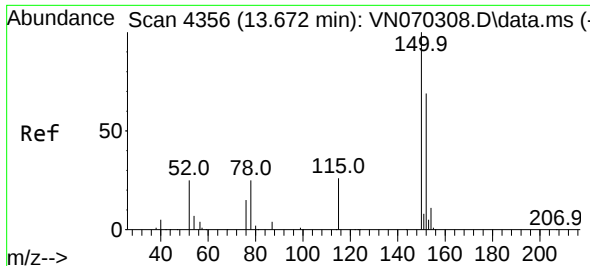
Tgt Ion:106 Resp: 4083

Ion Ratio Lower Upper

106 100

91 259.4 105.8 317.3

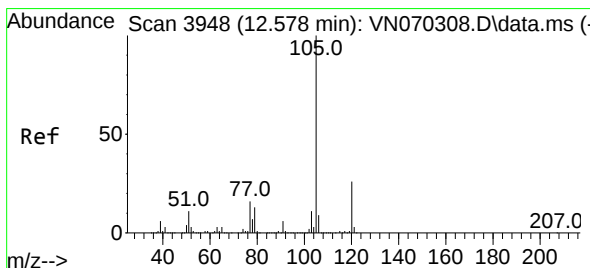
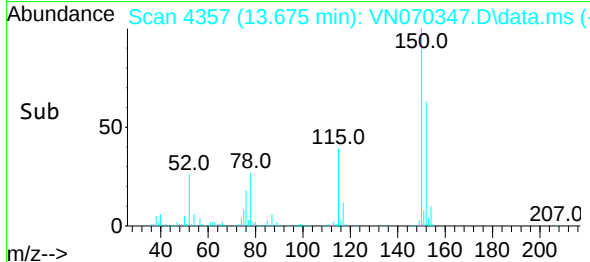
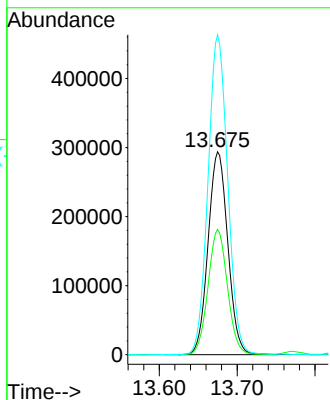
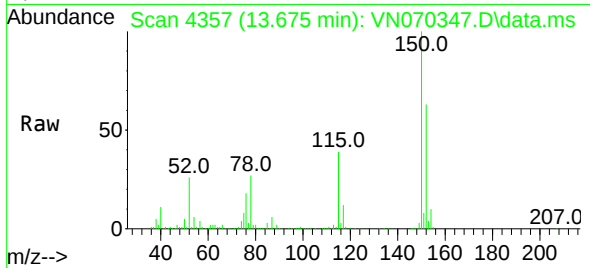




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.675 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VN070347.D
 Acq: 29 Dec 2021 14:33

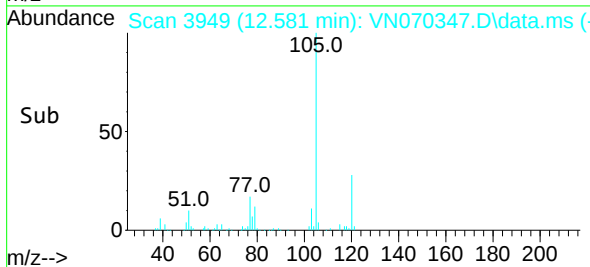
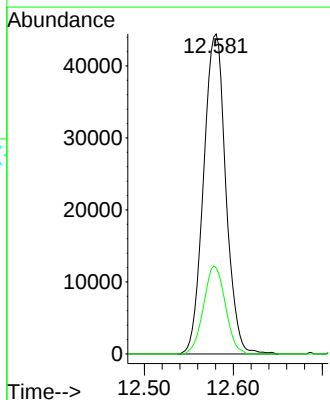
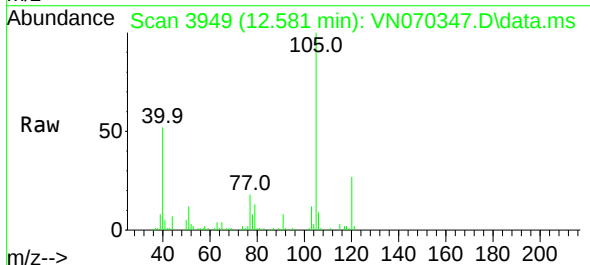
Instrument :
 MSVOA_N
 ClientSampleId :

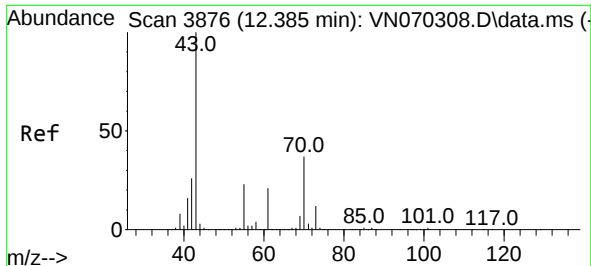
Tgt Ion:152 Resp: 517149
 Ion Ratio Lower Upper
 152 100
 115 60.4 27.5 82.5
 150 156.9 0.0 344.4



#73
 Isopropylbenzene
 Concen: 1.606 ug/l
 RT: 12.581 min Scan# 3949
 Delta R.T. 0.003 min
 Lab File: VN070347.D
 Acq: 29 Dec 2021 14:33

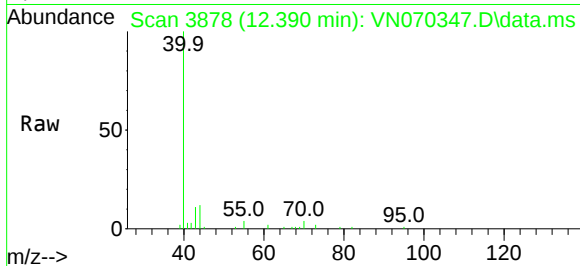
Tgt Ion:105 Resp: 77149
 Ion Ratio Lower Upper
 105 100
 120 26.9 13.4 40.1



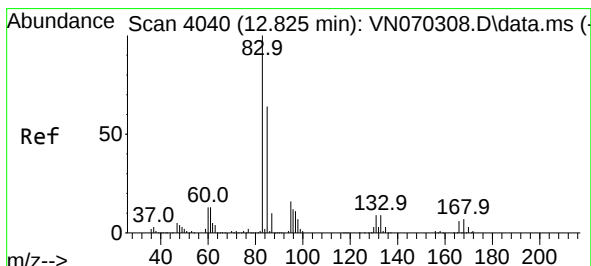
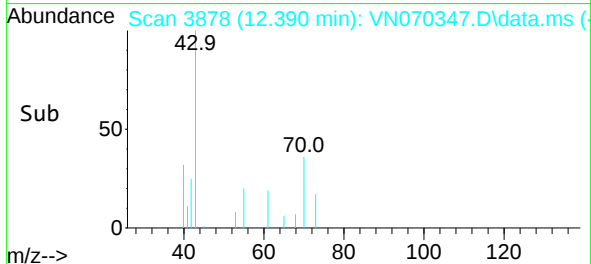
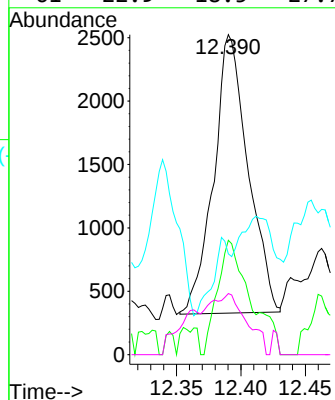


#74
N-amy1 acetate
Concen: 0.202 ug/l
RT: 12.390 min Scan# 3877
Delta R.T. 0.005 min
Lab File: VN070347.D
Acq: 29 Dec 2021 14:33

Instrument :
MSVOA_N
ClientSampleId :

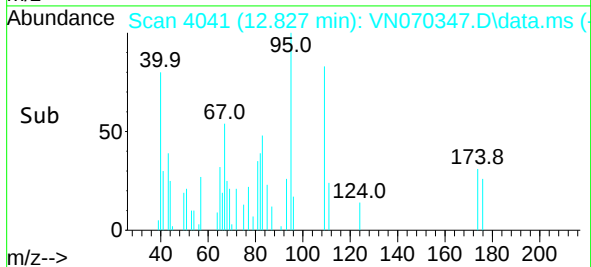
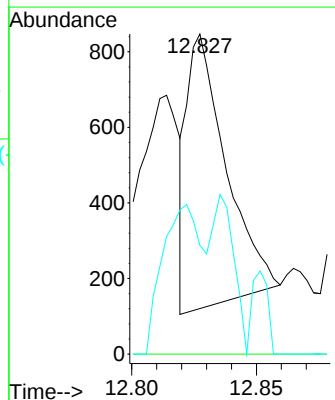
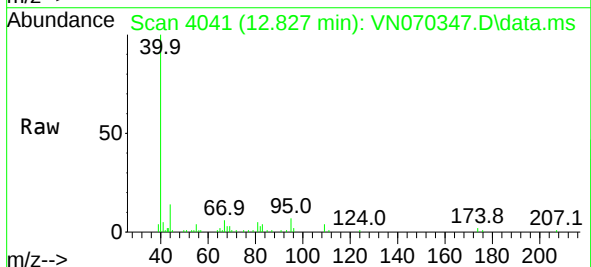


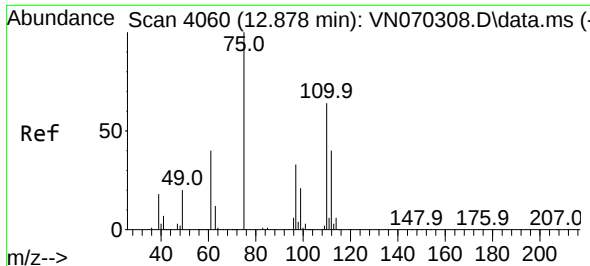
Tgt Ion:	43	Resp:	4079
Ion	Ratio	Lower	Upper
43	100		
70	39.7	33.4	50.0
55	13.0	19.3	28.9#
61	22.9	18.5	27.7



#75
1,1,2,2-Tetrachloroethane
Concen: 0.492 ug/l
RT: 12.827 min Scan# 4041
Delta R.T. 0.002 min
Lab File: VN070347.D
Acq: 29 Dec 2021 14:33

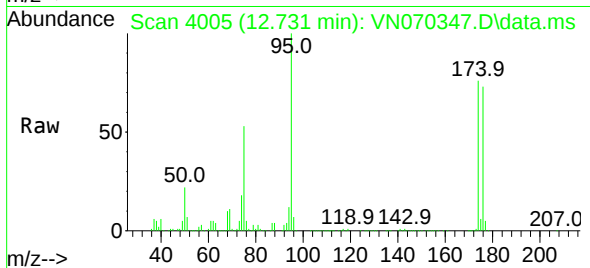
Tgt Ion:	83	Resp:	793
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.5	16.5#
85	55.1	32.4	97.2



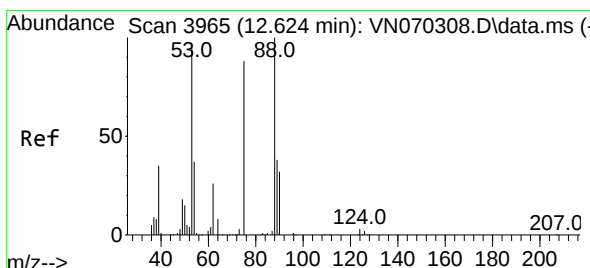
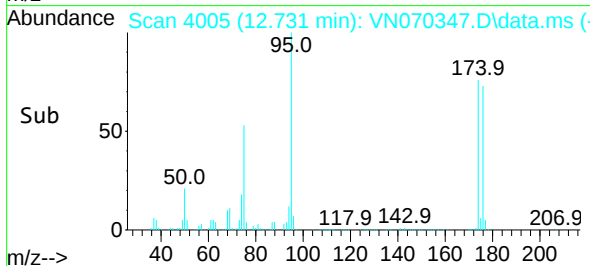
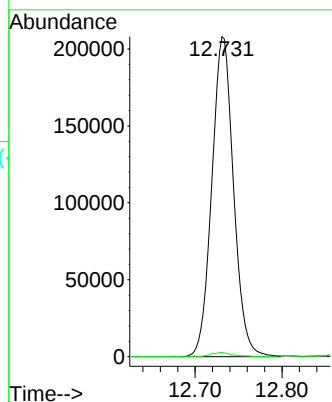


#76
1,2,3-Trichloropropane
Concen: 25.022 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.147 min
Lab File: VN070347.D
Acq: 29 Dec 2021 14:33

Instrument :
MSVOA_N
ClientSampleId :

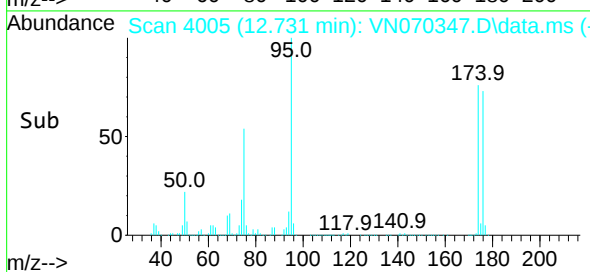
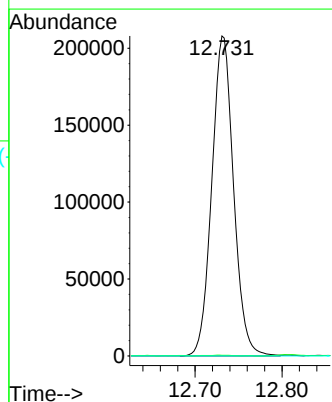
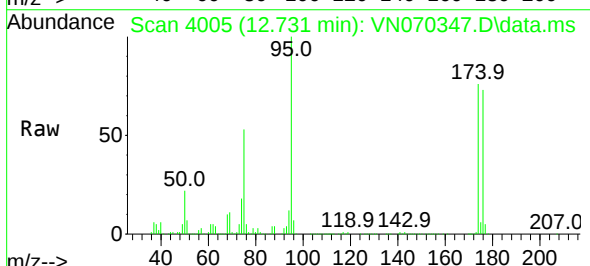


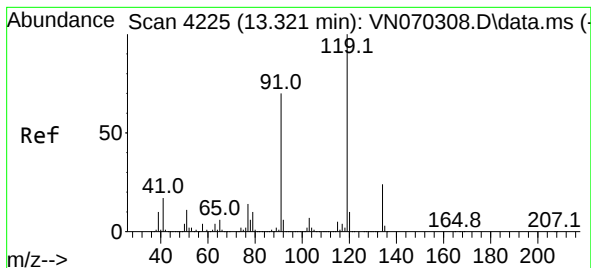
Tgt Ion: 75 Resp: 360977
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 85.281 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.107 min
Lab File: VN070347.D
Acq: 29 Dec 2021 14:33

Tgt Ion: 75 Resp: 360977
Ion Ratio Lower Upper
75 100
53 0.3 90.5 135.7#
89 0.0 38.2 57.4#





#83

tert-Butylbenzene

Concen: 0.423 ug/l

RT: 13.323 min Scan# 4225

Delta R.T. 0.002 min

Lab File: VN070347.D

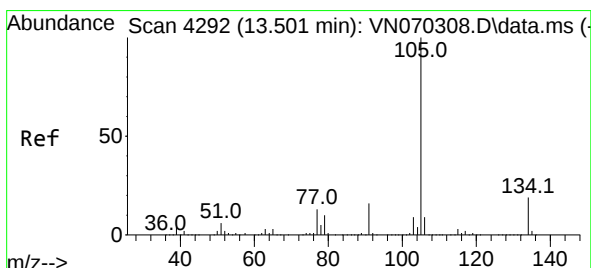
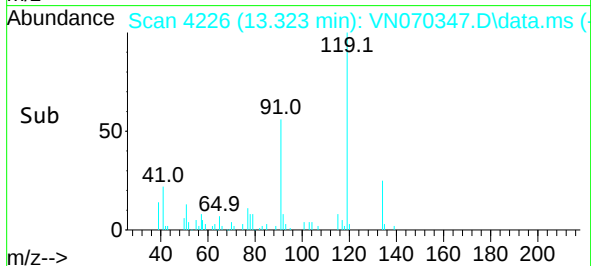
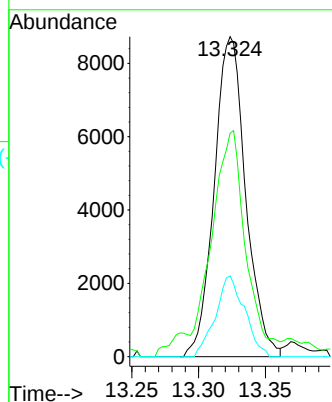
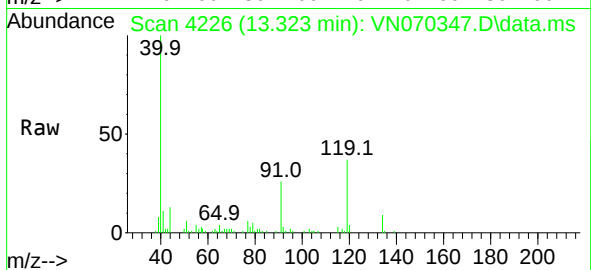
Acq: 29 Dec 2021 14:33

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	119	Resp:	14334
Ion Ratio	Lower	Upper	
119	100		
91	64.5	31.5	94.5
134	23.3	12.4	37.4



#85

sec-Butylbenzene

Concen: 1.677 ug/l

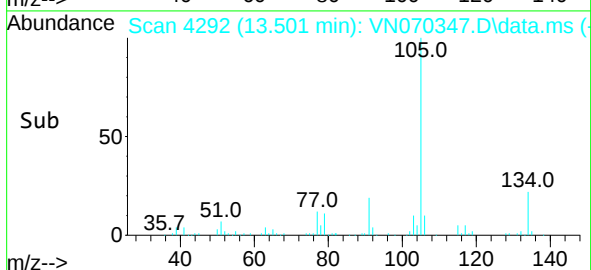
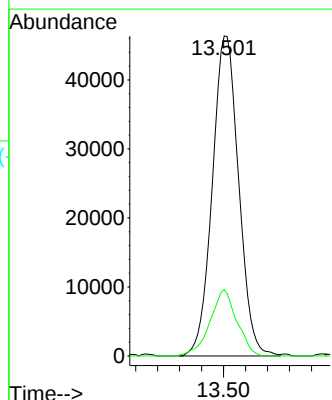
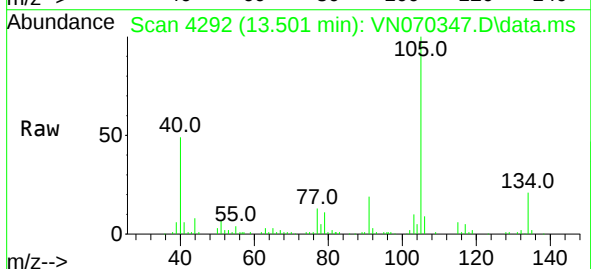
RT: 13.501 min Scan# 4292

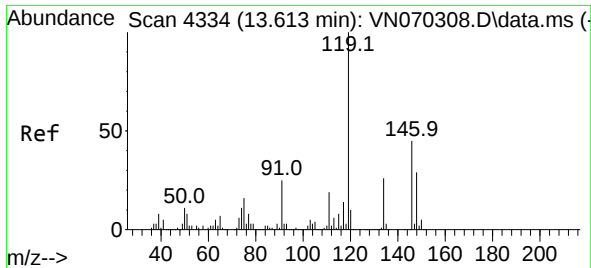
Delta R.T. -0.000 min

Lab File: VN070347.D

Acq: 29 Dec 2021 14:33

Tgt Ion:	105	Resp:	77177
Ion Ratio	Lower	Upper	
105	100		
134	21.1	10.4	31.1

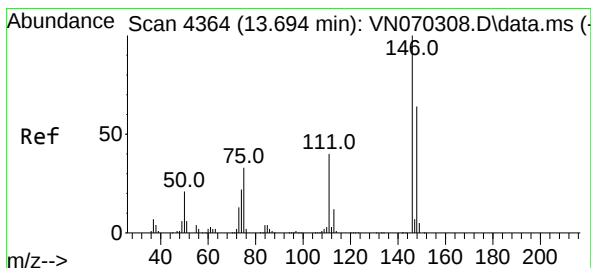
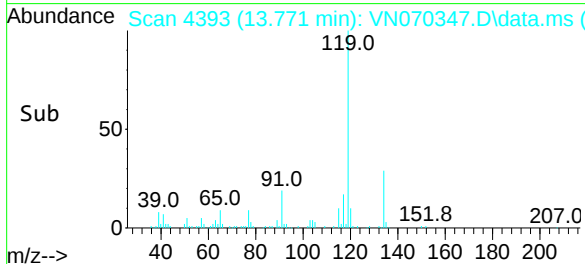
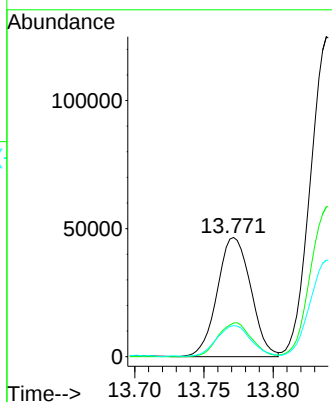
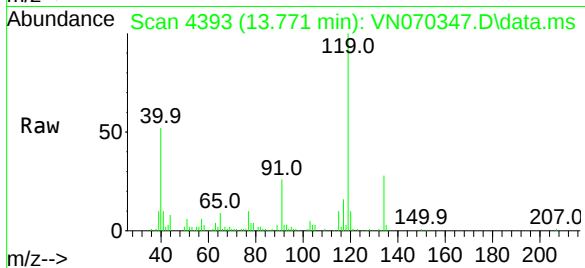




#86
 p-Isopropyltoluene
 Concen: 2.173 ug/l
 RT: 13.771 min Scan# 4393
 Delta R.T. 0.158 min
 Lab File: VN070347.D
 Acq: 29 Dec 2021 14:33

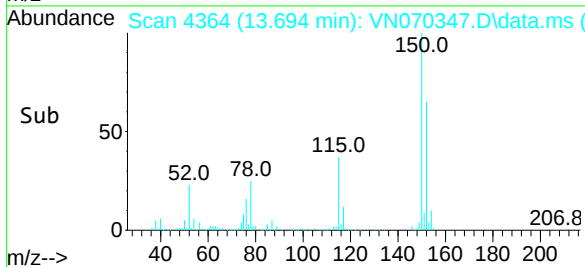
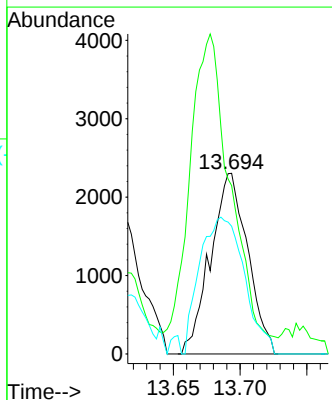
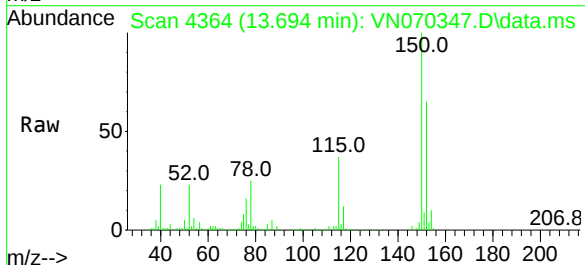
Instrument :
 MSVOA_N
 ClientSampleId :

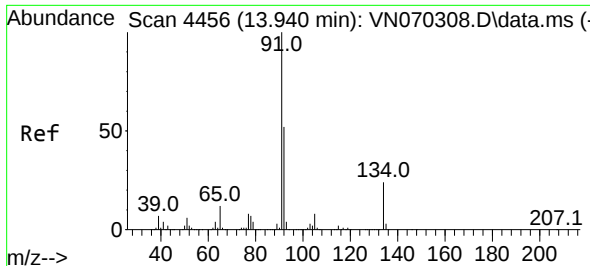
Tgt Ion:119 Resp: 78524
 Ion Ratio Lower Upper
 119 100
 134 28.3 13.6 40.7
 91 25.9 11.4 34.1



#88
 1,4-Dichlorobenzene
 Concen: 0.245 ug/l
 RT: 13.694 min Scan# 4364
 Delta R.T. -0.000 min
 Lab File: VN070347.D
 Acq: 29 Dec 2021 14:33

Tgt Ion:146 Resp: 4453
 Ion Ratio Lower Upper
 146 100
 111 189.8 18.3 54.8#
 148 91.0 31.8 95.4

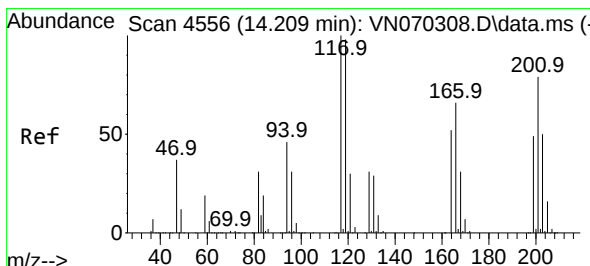
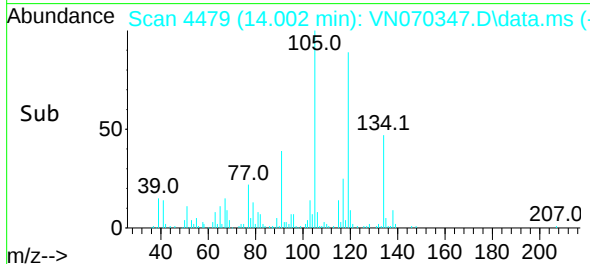
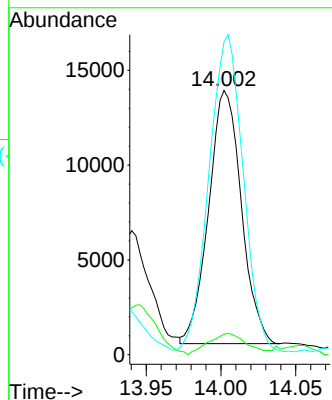
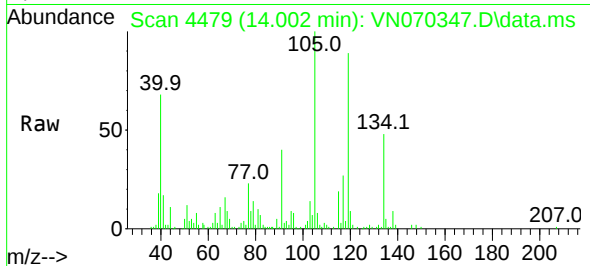




#89
n-Butylbenzene
Concen: 0.674 ug/l
RT: 14.002 min Scan# 4456
Delta R.T. 0.062 min
Lab File: VN070347.D
Acq: 29 Dec 2021 14:33

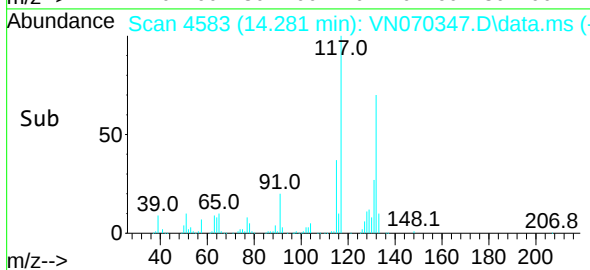
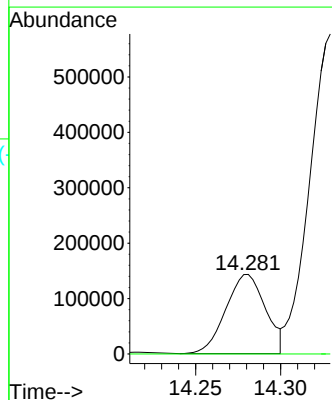
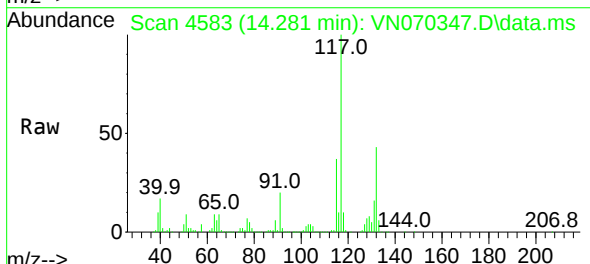
Instrument :
MSVOA_N
ClientSampleId :

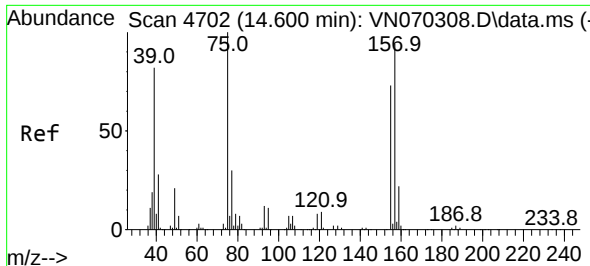
Tgt Ion: 91 Resp: 20331
Ion Ratio Lower Upper
91 100
92 9.6 25.4 76.0#
134 131.8 13.6 40.8#



#90
Hexachloroethane
Concen: 37.102 ug/l
RT: 14.281 min Scan# 4583
Delta R.T. 0.072 min
Lab File: VN070347.D
Acq: 29 Dec 2021 14:33

Tgt Ion: 117 Resp: 232945
Ion Ratio Lower Upper
117 100
201 0.0 43.9 131.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.361 ug/l

RT: 14.656 min Scan# 41

Delta R.T. 0.056 min

Lab File: VN070347.D

Acq: 29 Dec 2021 14:33

Instrument :

MSVOA_N

ClientSampleId :

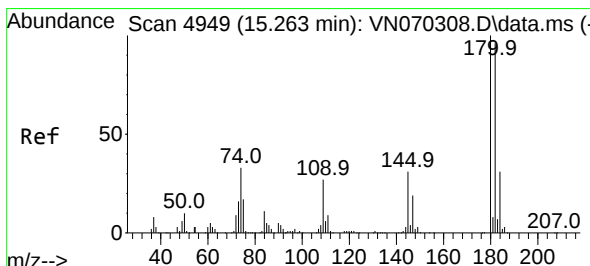
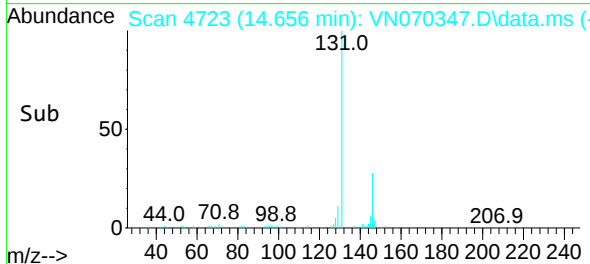
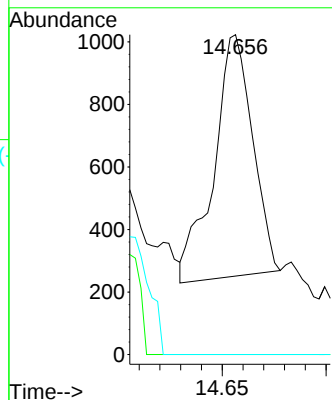
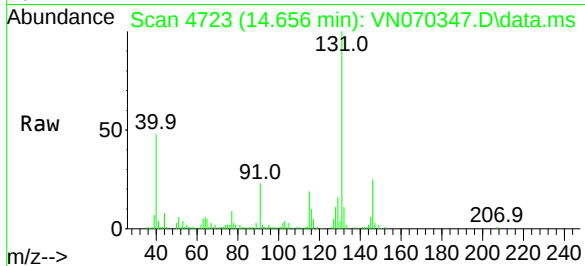
Tgt Ion: 75 Resp: 1003

Ion Ratio Lower Upper

75 100

155 0.0 46.9 140.7#

157 0.0 60.6 181.7#



#93

1,2,4-Trichlorobenzene

Concen: 0.763 ug/l

RT: 15.268 min Scan# 4951

Delta R.T. 0.005 min

Lab File: VN070347.D

Acq: 29 Dec 2021 14:33

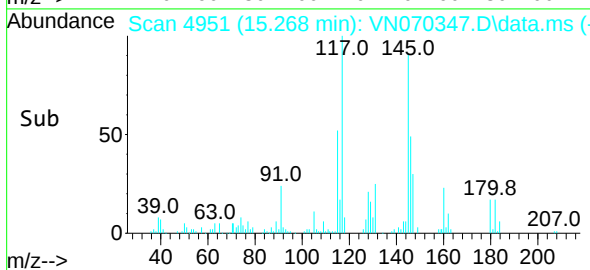
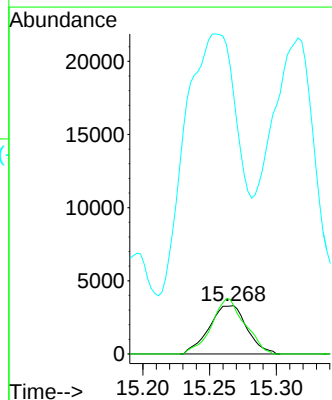
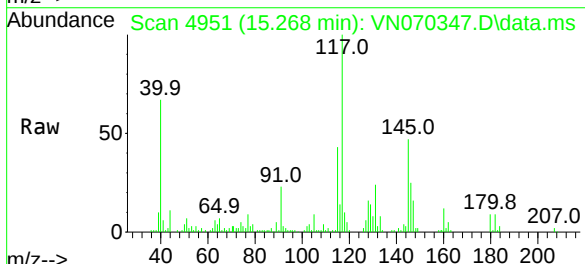
Tgt Ion:180 Resp: 6505

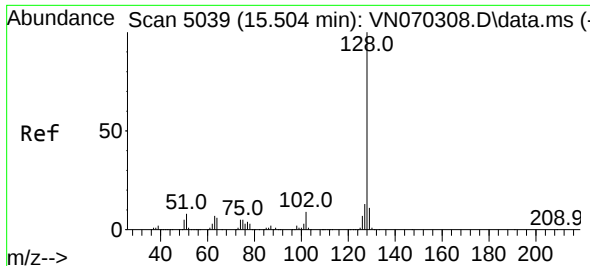
Ion Ratio Lower Upper

180 100

182 100.9 48.3 144.9

145 1001.4 14.5 43.5#

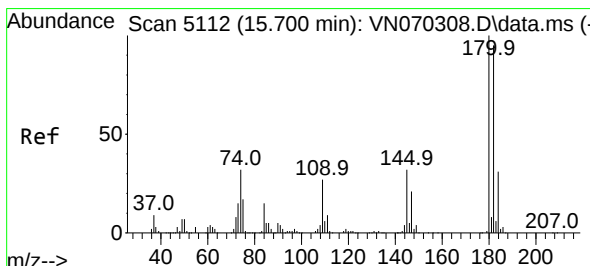
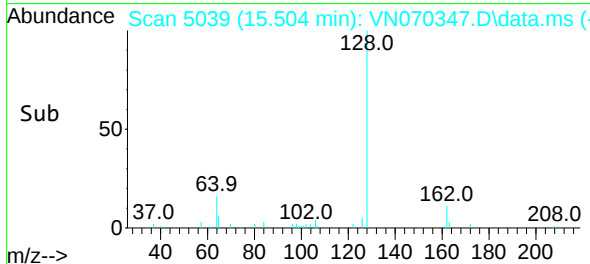
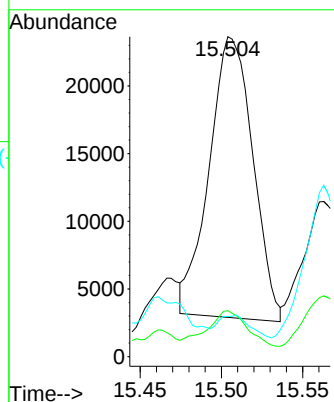
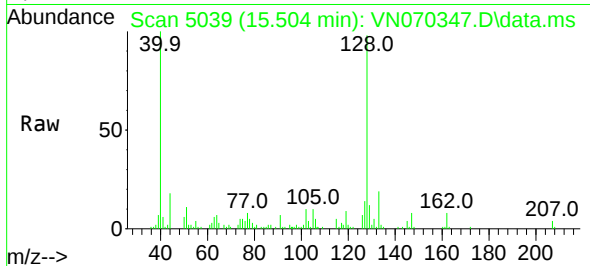




#95
Naphthalene
Concen: 3.385 ug/l
RT: 15.504 min Scan# 5039
Delta R.T. -0.000 min
Lab File: VN070347.D
Acq: 29 Dec 2021 14:33

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 38812
Ion Ratio Lower Upper
128 100
127 11.3 10.5 15.7
129 0.0 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 1.832 ug/l
RT: 15.702 min Scan# 5113
Delta R.T. 0.002 min
Lab File: VN070347.D
Acq: 29 Dec 2021 14:33

Tgt Ion:180 Resp: 8340
Ion Ratio Lower Upper
180 100
182 103.6 47.4 142.2
145 0.0 15.0 45.1#

