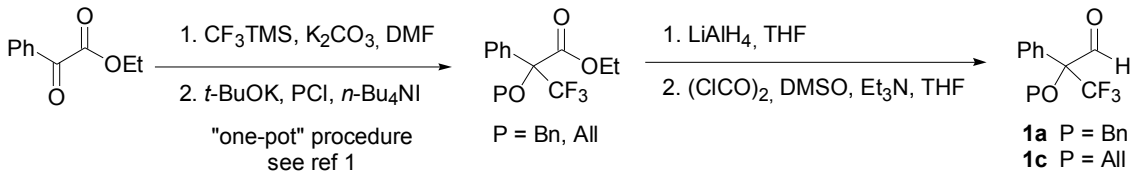
Supporting information for

Enantiomerically pure 2-aryl(alkyl)-2-trifluoromethylaziridines: Synthesis and ring opening with selected *O*- and *N*-nucleophiles.

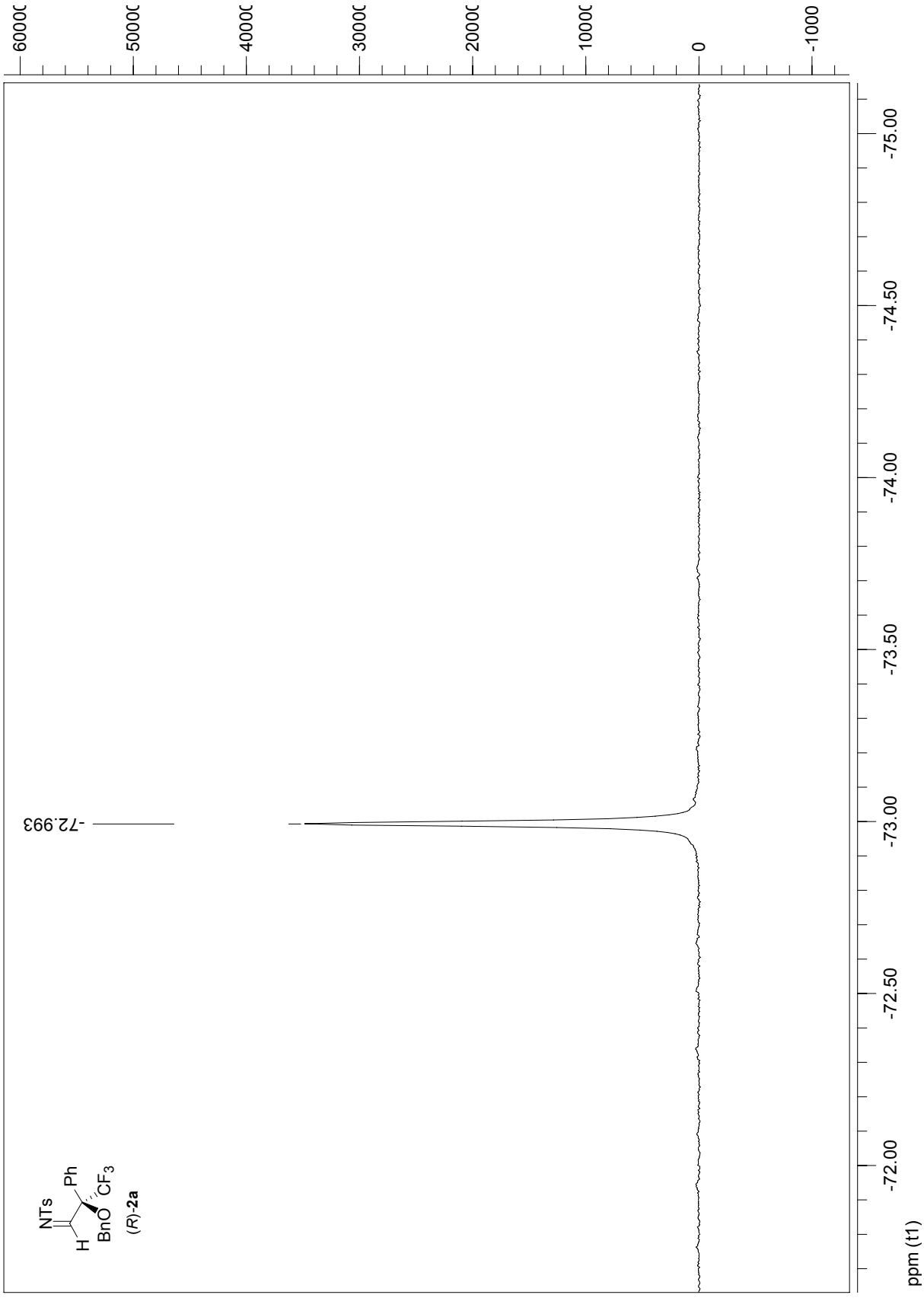
Fabienne Grellepois,* Jean Nonnenmacher, Fabien Lachaud, Charles Portella

Preparation of racemic samples.

Racemic samples were prepared as described for chiral compounds starting from racemic aldehydes **1a** (for *N*-tosyl derivatives) or **1c** (for *N*-benzyl derivatives). Racemic aldehydes **1a** and **1c** were prepared from ethylbenzoylformate according to the following scheme:



Ref 1: J. Nonnenmacher, F. Massicot, F. Grellepois and C. Portella, *J. Org. Chem*., 2008, **73**, 7990.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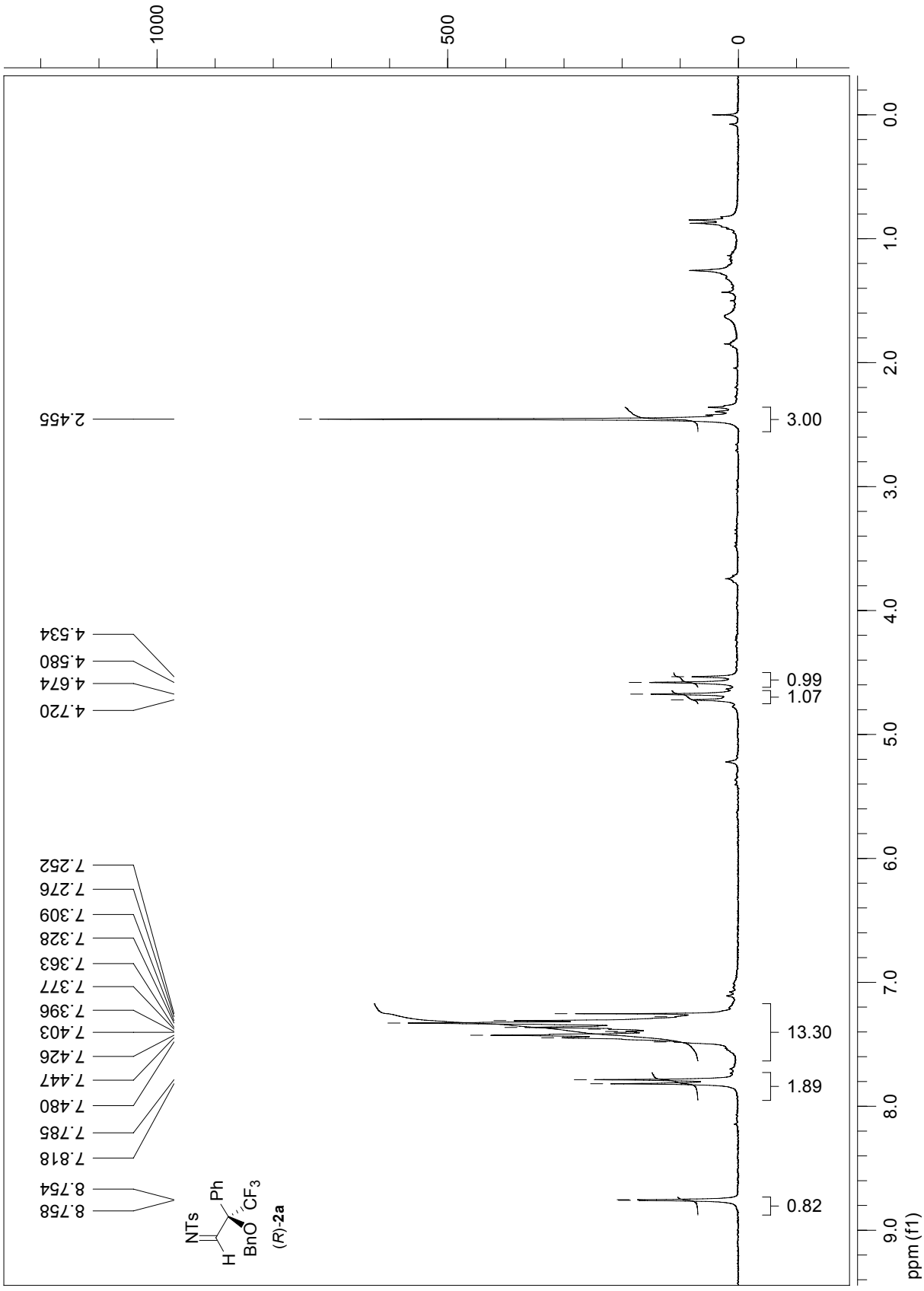
-74.50
-75.00
ppm (t1)
NTs
Ph
H
BnO
CF3
(R)-2a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4.674
4.720
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7.309
7.328
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7.377
7.396
7.403
7.426
7.447
7.480
7.785
7.818
8.754
8.758
3.00
0.99
1.07
13.30
1.89
0.82
NTs
Ph
CF3
BnO
H
(R)-2a
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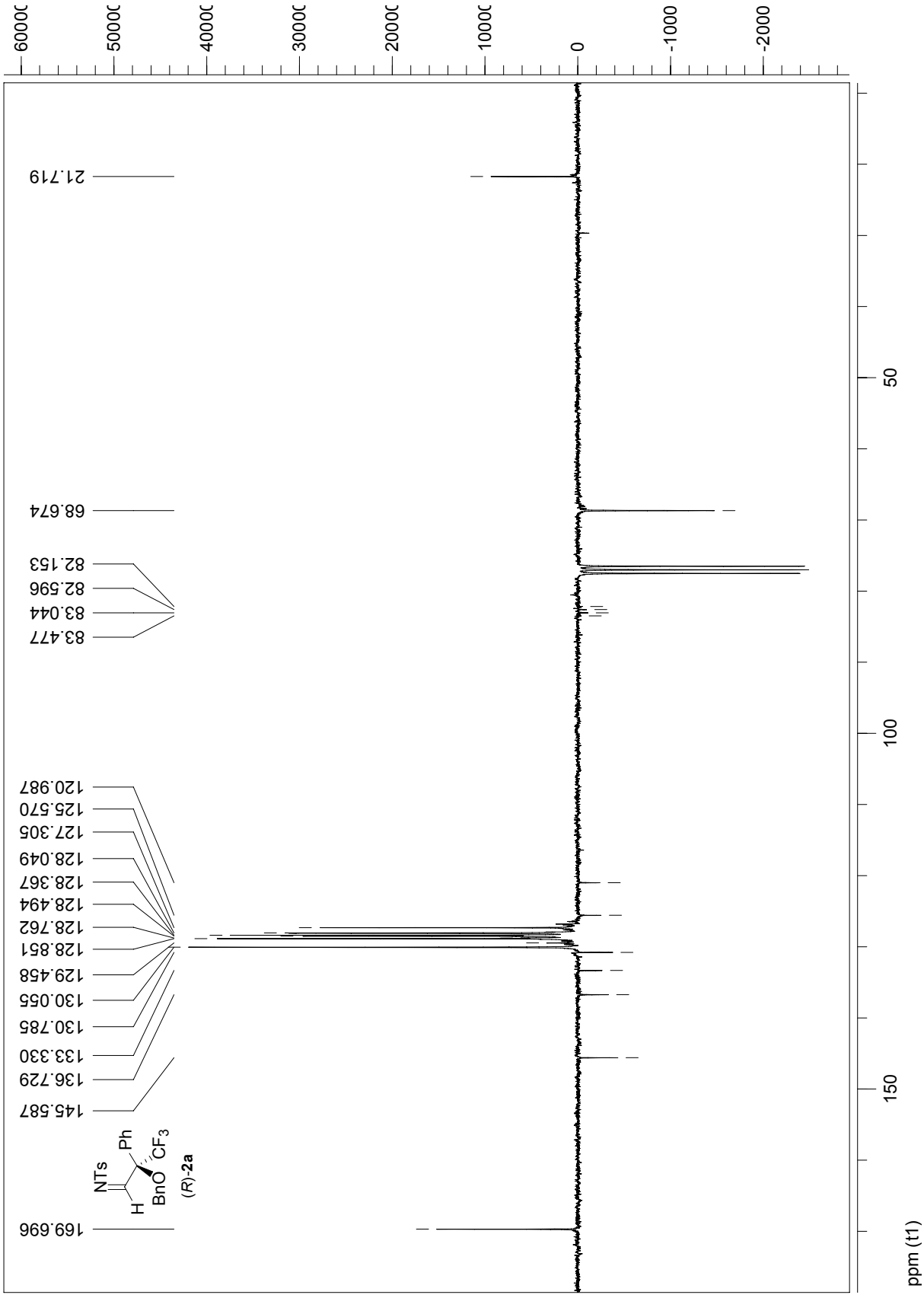
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
ppm (f1)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30000
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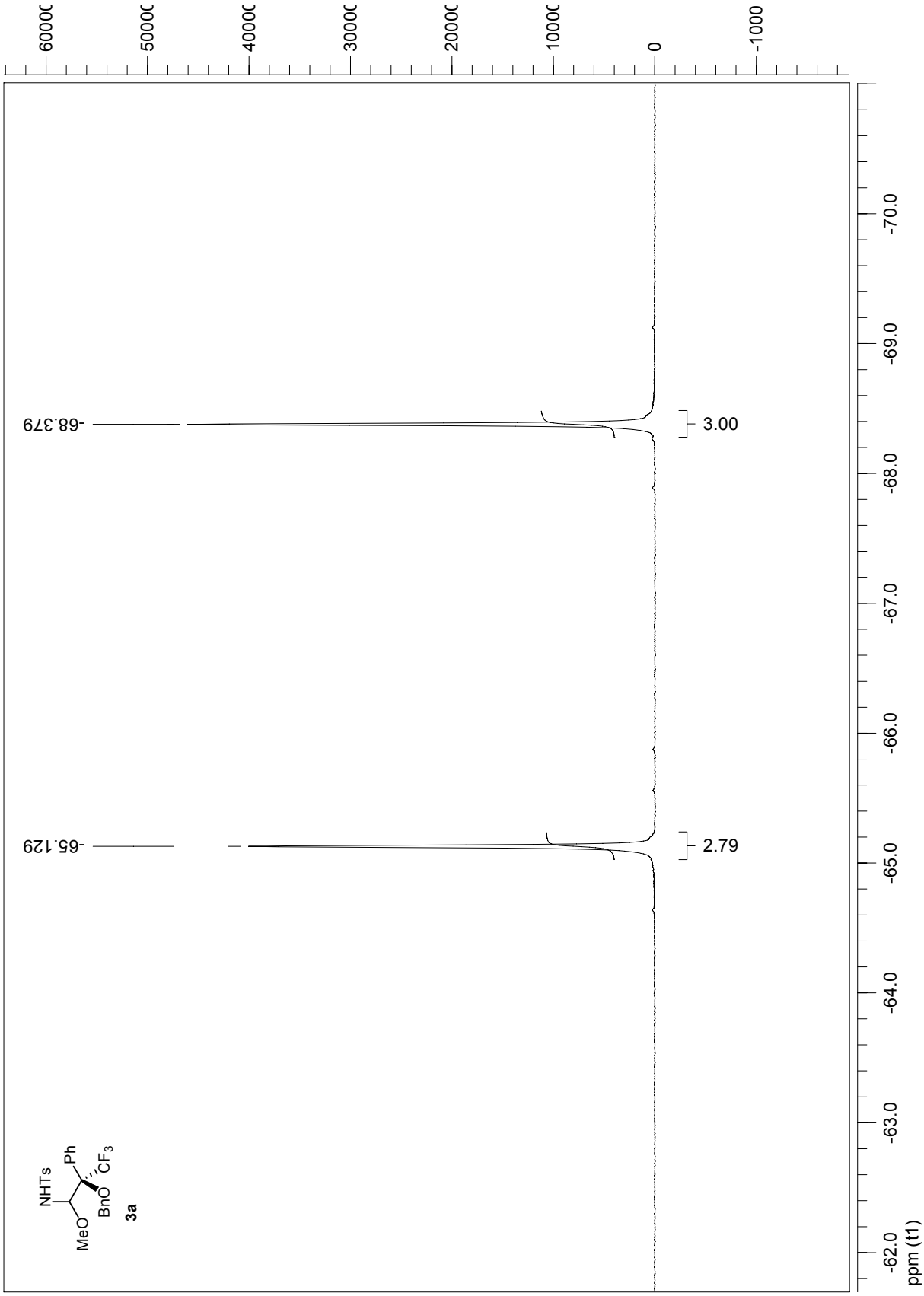
83.477
120.987
125.570
127.305
128.049
128.367
128.494
128.762
128.851
129.458
130.055
130.785
133.330
136.729
145.587
169.696
NTs
Ph
BnO
CF3
H
(R)-2a
50
100
150
ppm (t1)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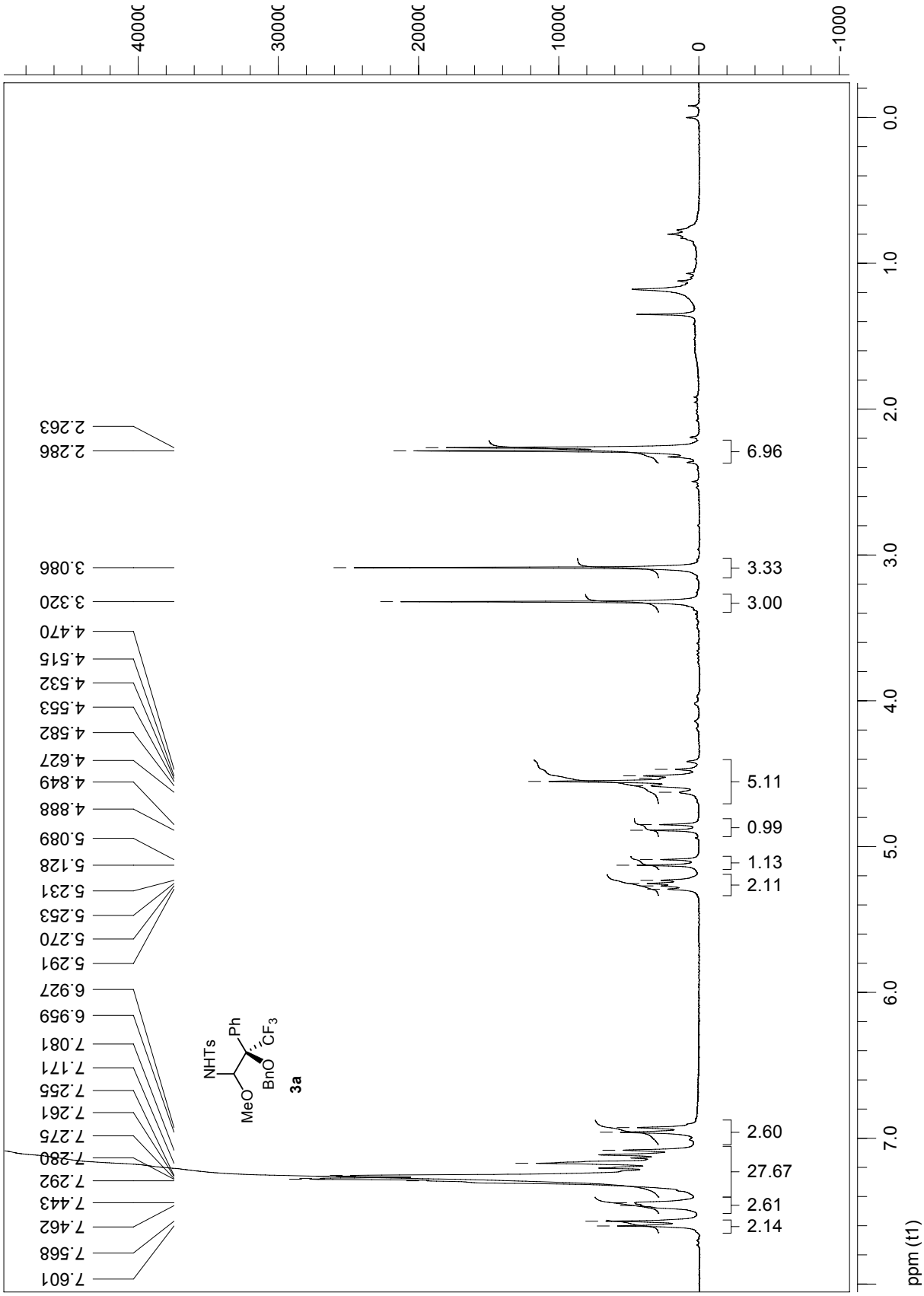
NHTs
Ph
BnO
CF3
MeO
3a
ppm (t1)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2.286
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3.320
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4.515
4.532
4.553
4.582
4.627
4.849
4.888
5.089
5.128
5.231
5.253
5.270
5.291
6.927
6.959
7.081
7.171
7.255
7.261
7.275
7.280
7.292
7.443
7.462
7.568
7.601
6.96
3.33
3.00
5.11
0.99
1.13
2.11
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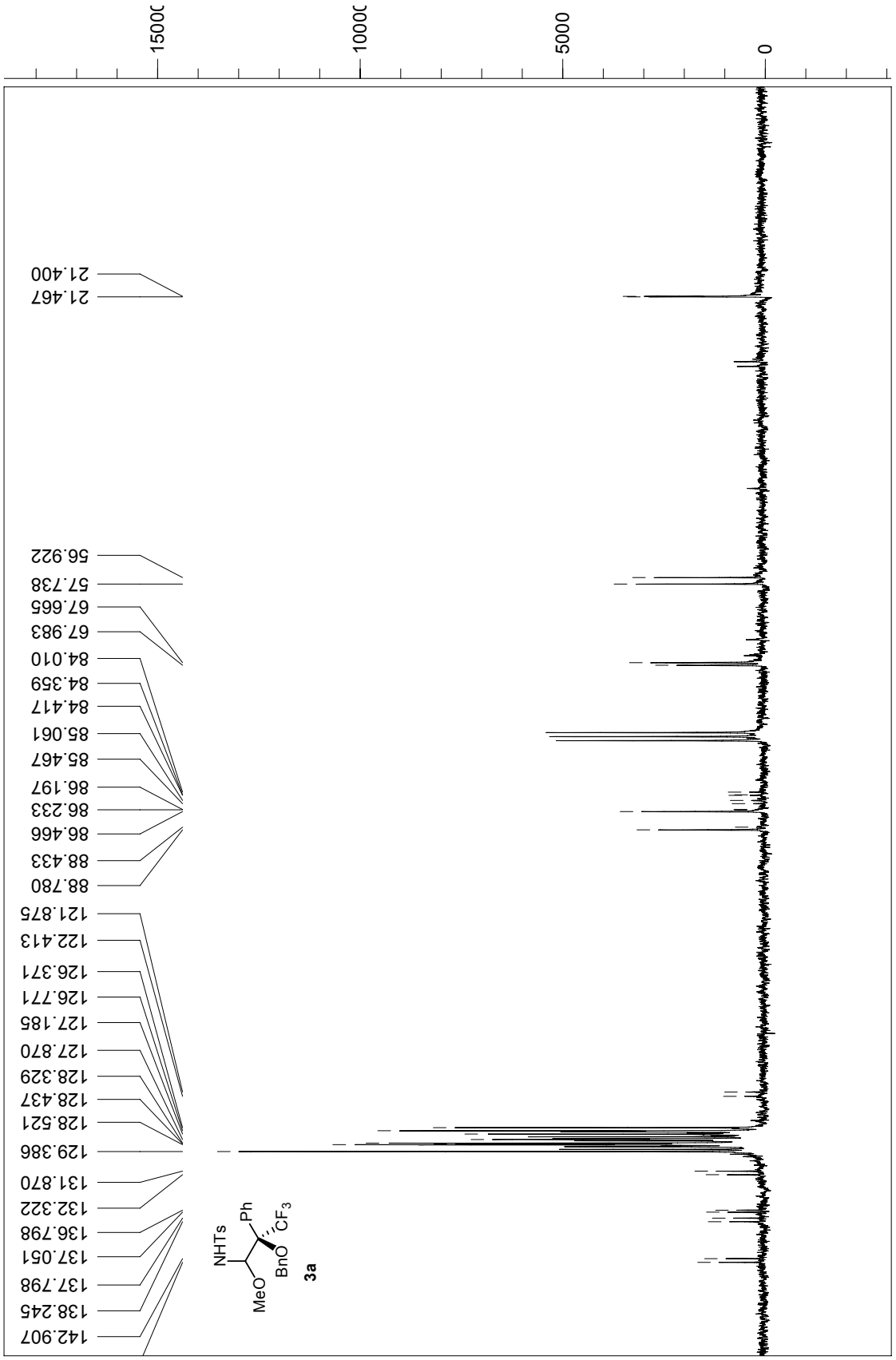
27.67
2.61
2.14
NHTs
MeO
BnO
Ph
CF3
3a
ppm (t1)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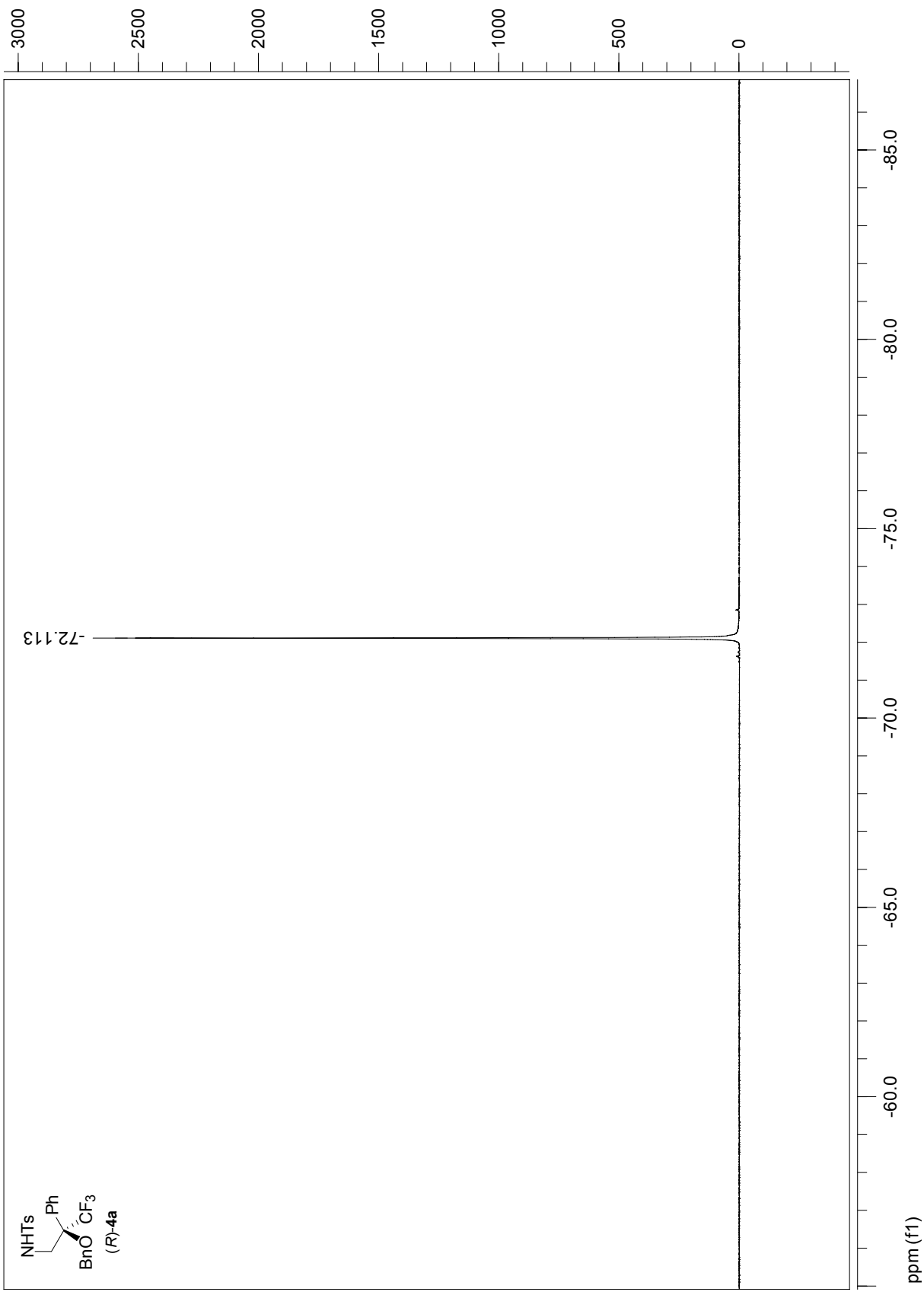
21.400
56.922
57.738
67.665
67.983
84.010
84.359
84.417
85.061
85.467
86.197
86.233
86.466
88.433
88.780
121.875
122.413
126.371
126.771
127.185
127.870
128.329
128.437
128.521
129.386
131.870
132.322
136.798
137.051
137.798
138.245
142.907
NHTs
MeO
BnO
Ph
CF3
3a
0
50
100
150
ppm (f1)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2500
2000
1500
1000
500
0
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-60.0
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-75.0
-80.0
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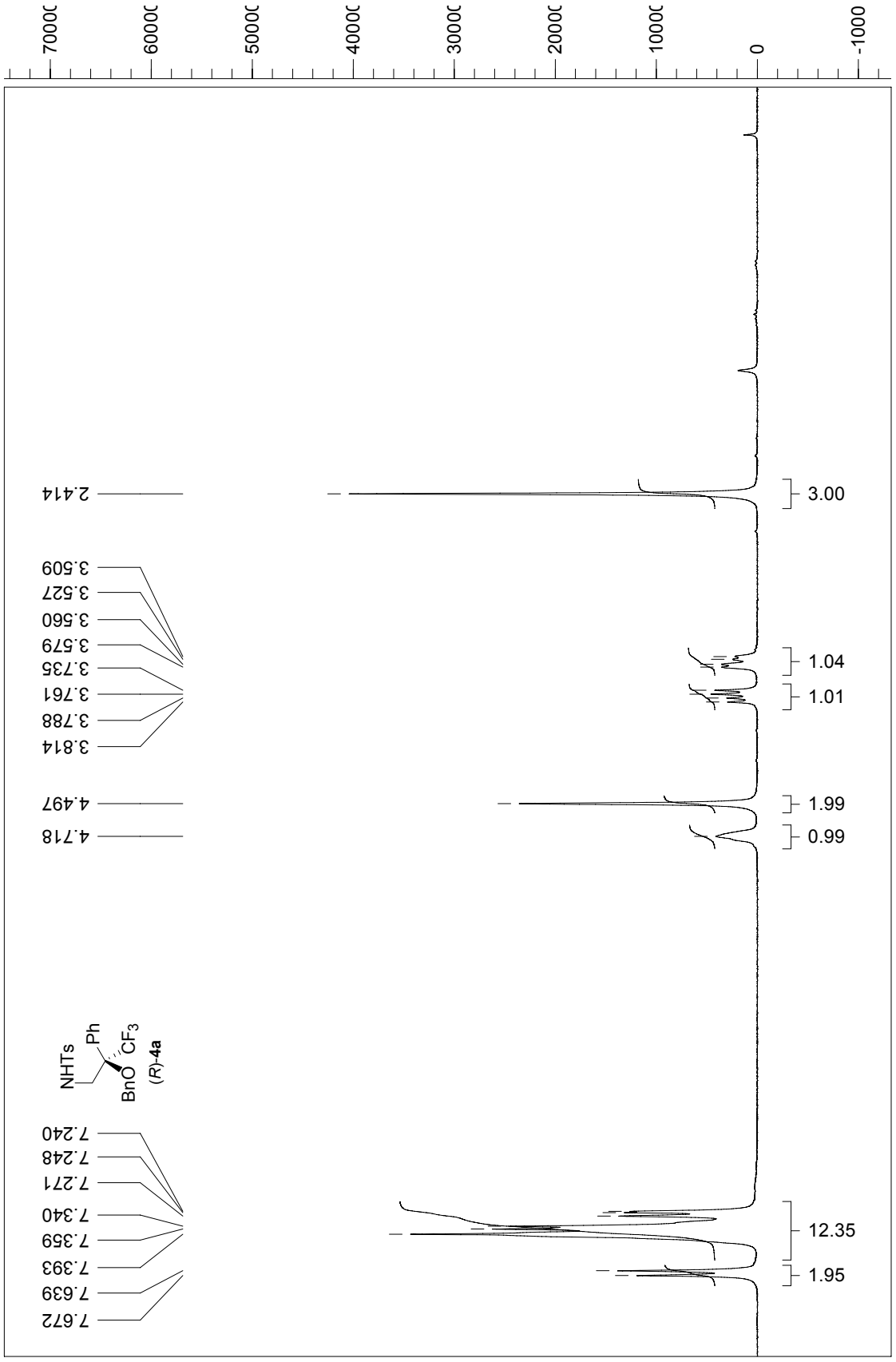
ppm (f1)
NHTs
Ph
BnO
CF3
(R)-4a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5000
4000
3000
2000
1000
0
-1000
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3.527
3.560
3.579
3.735
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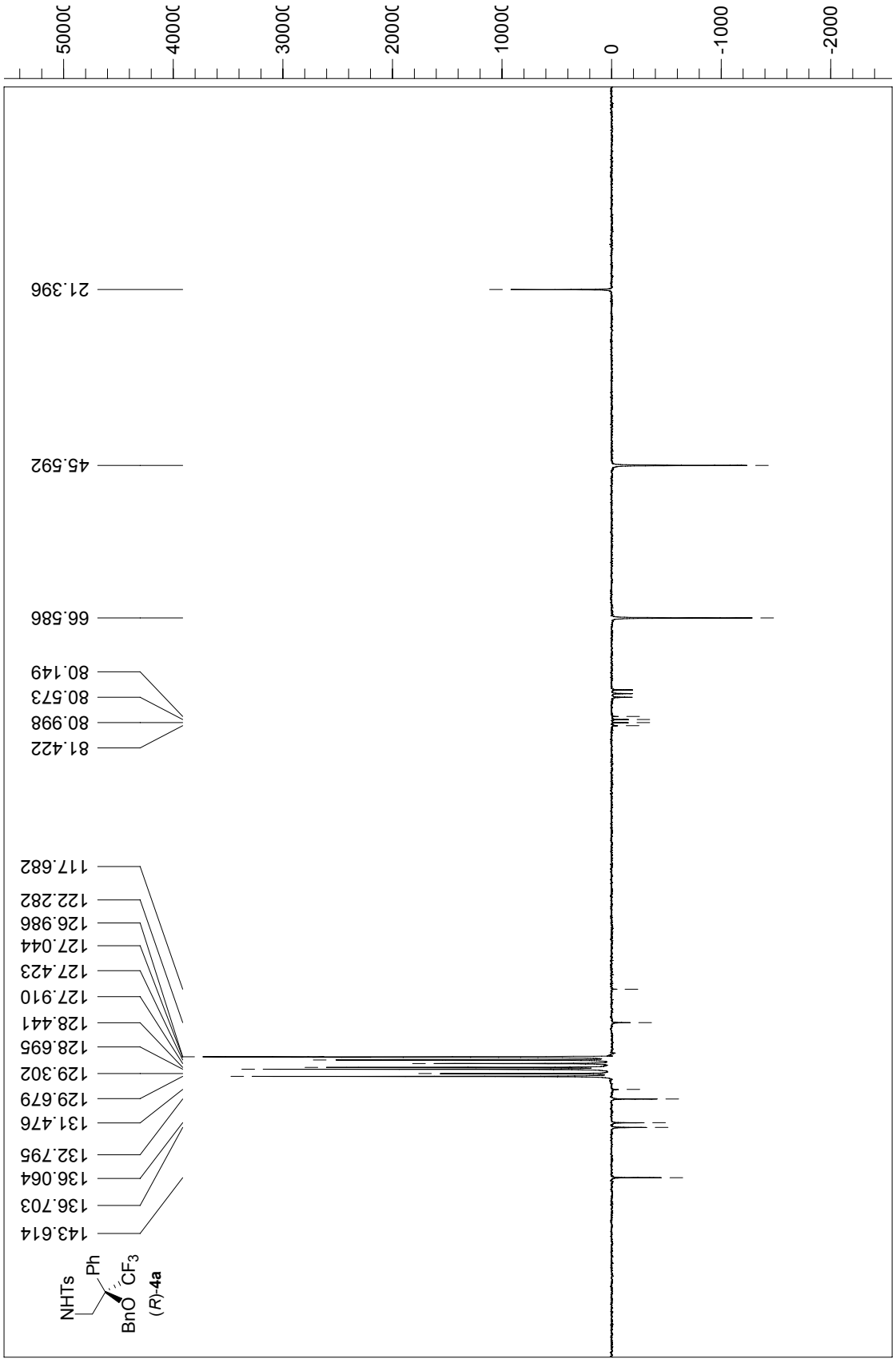
3.788
3.814
4.497
4.718
7.240
7.248
7.271
7.340
7.359
7.393
7.639
7.672
3.00
1.04
1.01
1.99
0.99
12.35
1.95
NHTs
Ph
BnO
CF3
(R)-4a
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
ppm (t1)


21.396
45.592
66.586
80.149
80.573
80.998
81.422
117.682
122.282
126.986
127.044
127.423
127.910
128.441
128.695
129.302
129.679
131.476
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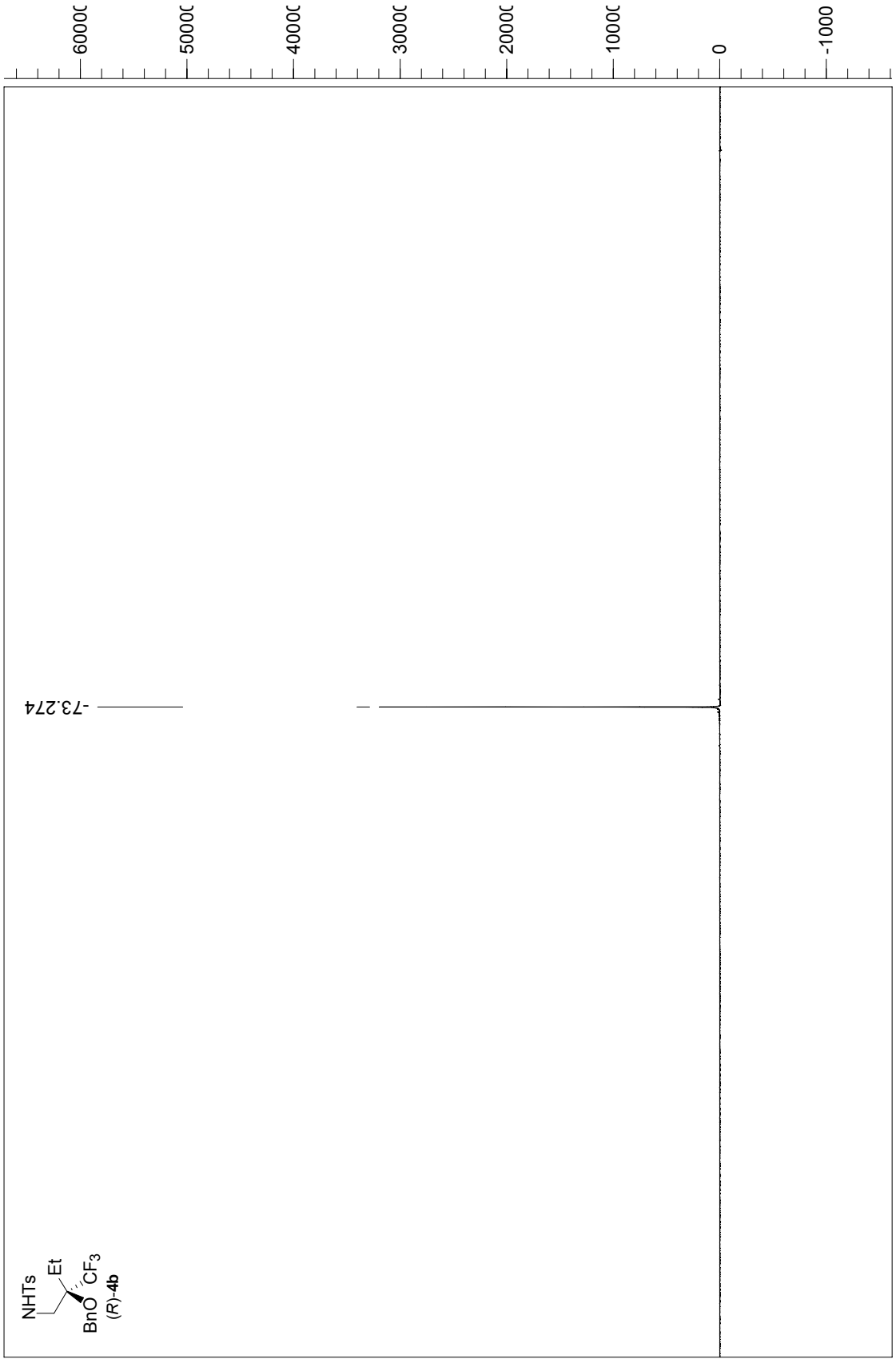
136.064
136.703
143.614
NHTs
Ph
BnO
CF3
(R)-4a
ppm (t1)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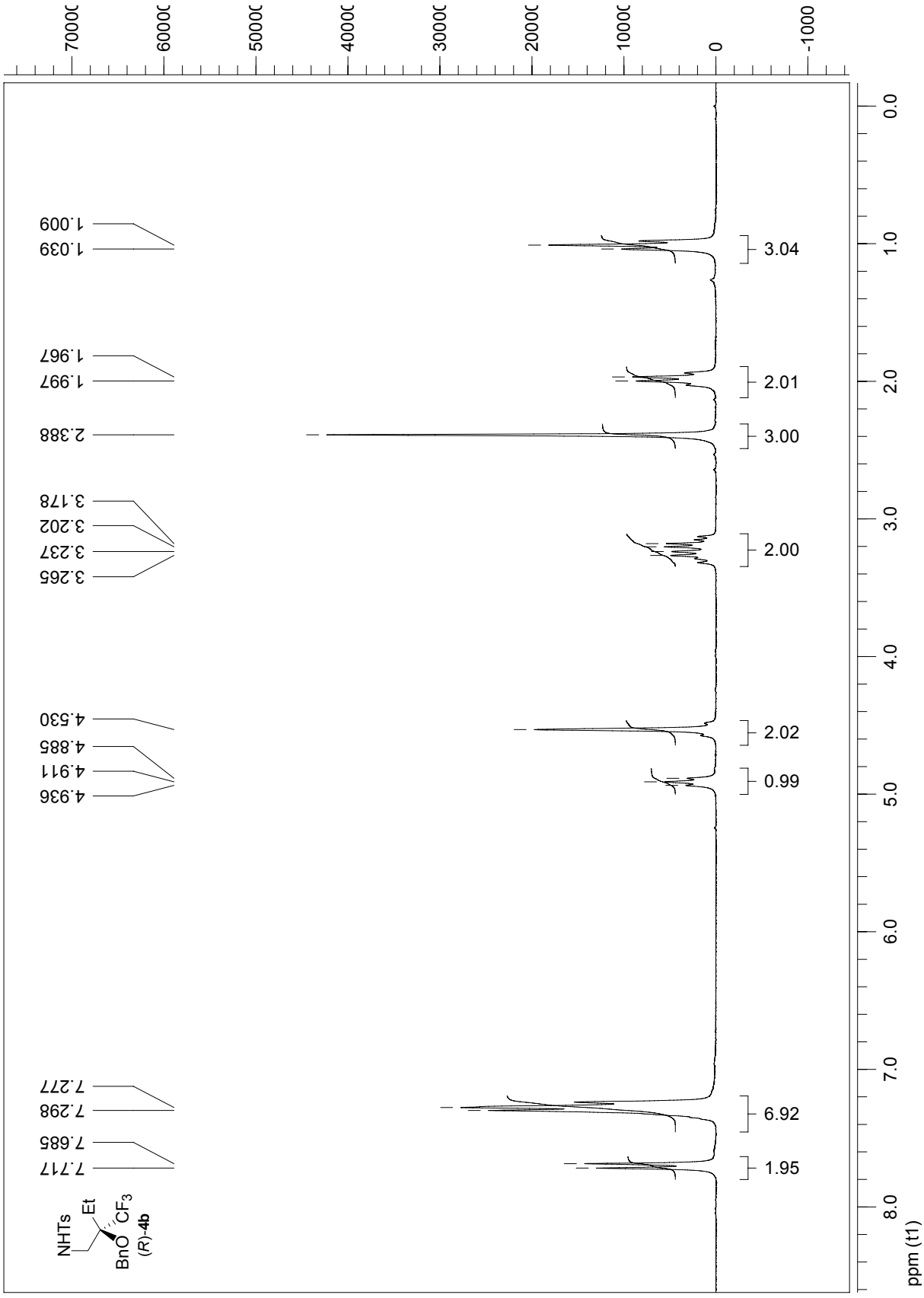
-100
-50
ppm (t1)
NHTs
Et
BnO
CF3
(R)-4b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7.685
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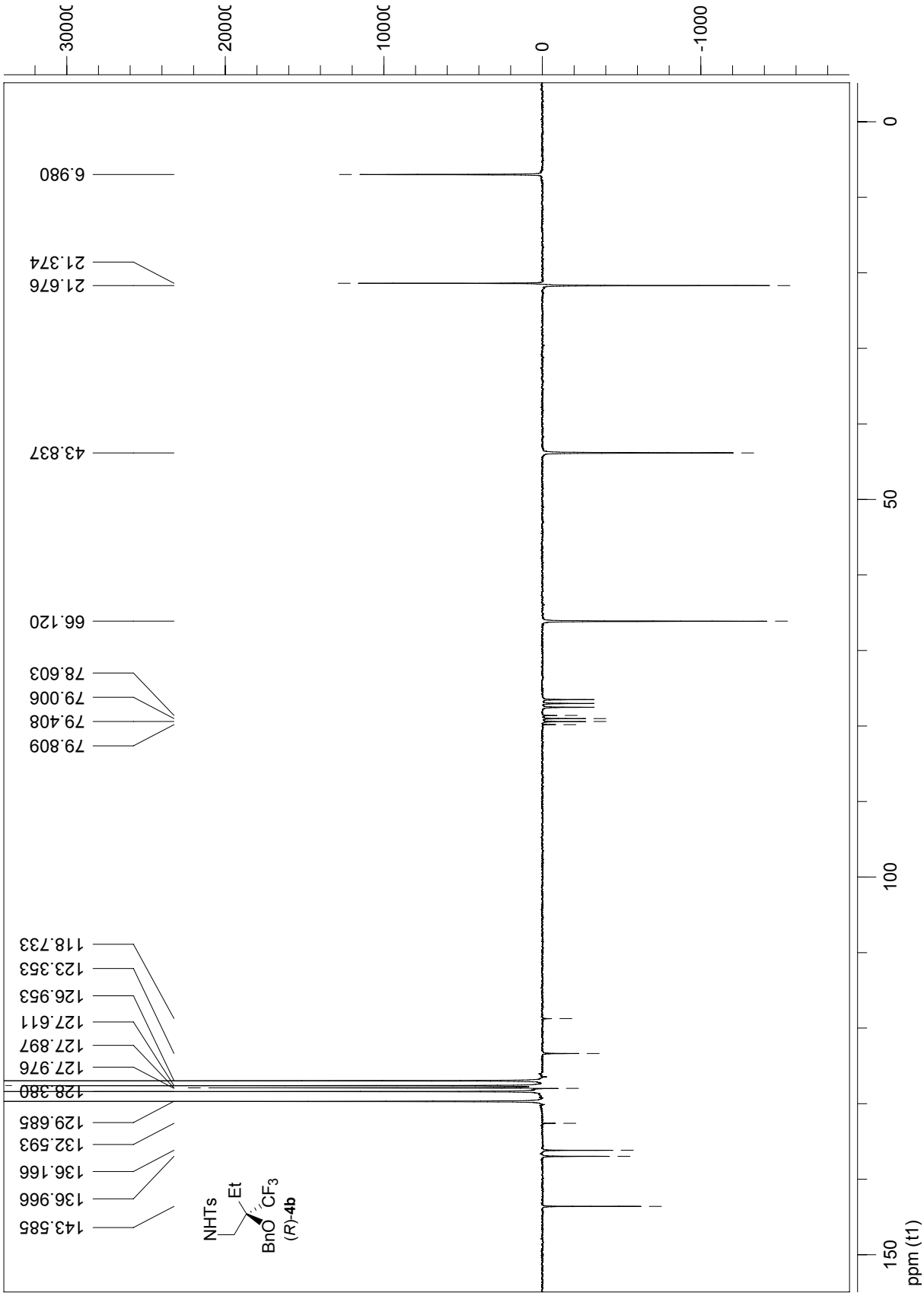
7.277
4.936
4.911
4.885
4.530
3.265
3.237
3.202
3.178
2.388
1.997
1.967
1.039
1.009
1.95
6.92
2.02
0.99
2.00
3.00
2.01
3.04
NHTs
Et
BnO
CF3
(R)-4b
ppm (t1)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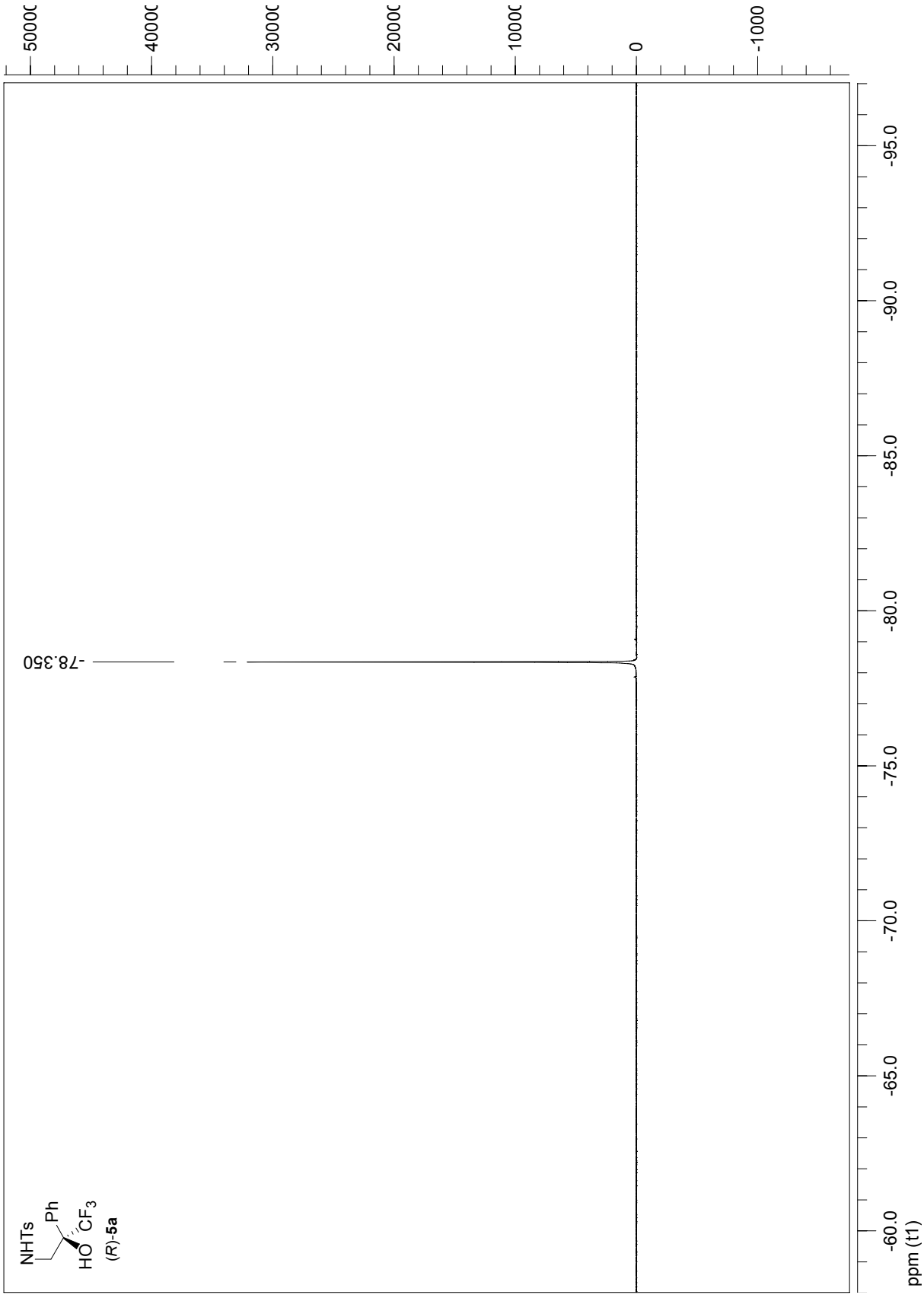
78.603
79.006
79.408
79.809
118.733
123.353
126.953
127.611
127.897
127.976
128.380
129.685
132.593
136.166
136.966
143.585
NHTs
Et
BnO
CF3
(R)-4b
ppm (t1)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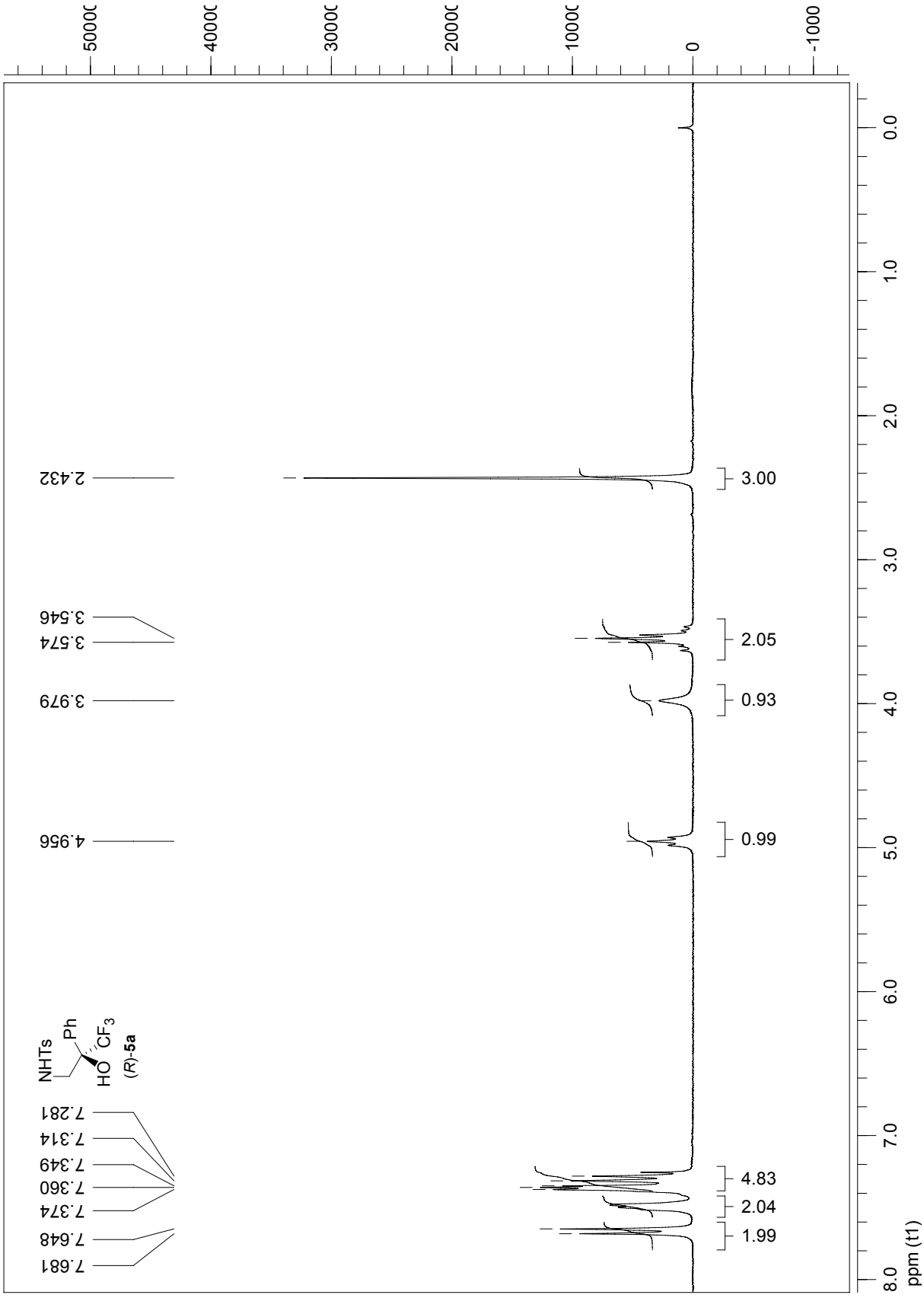
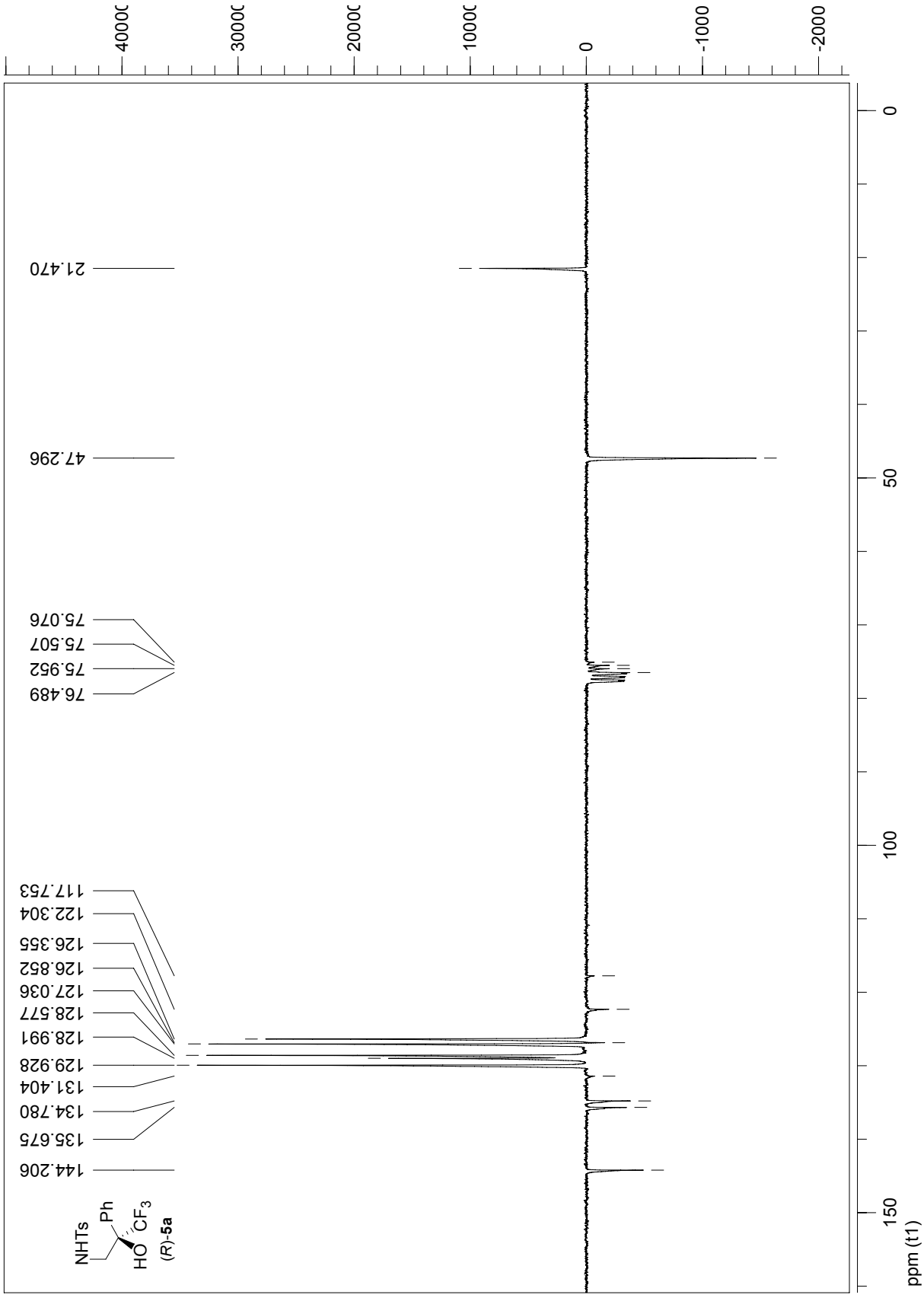
NHTs
Ph
HO
CF3
(R)-5a
ppm (t1)


NHTs
Ph
HO
CF_3
(*R*)-**5a**
2.432
3.546
3.574
3.979
4.956
7.281
7.314
7.349
7.360
7.374
7.648
7.681
3.00
2.05
0.93
0.99
4.83
2.04
1.99
ppm (t1)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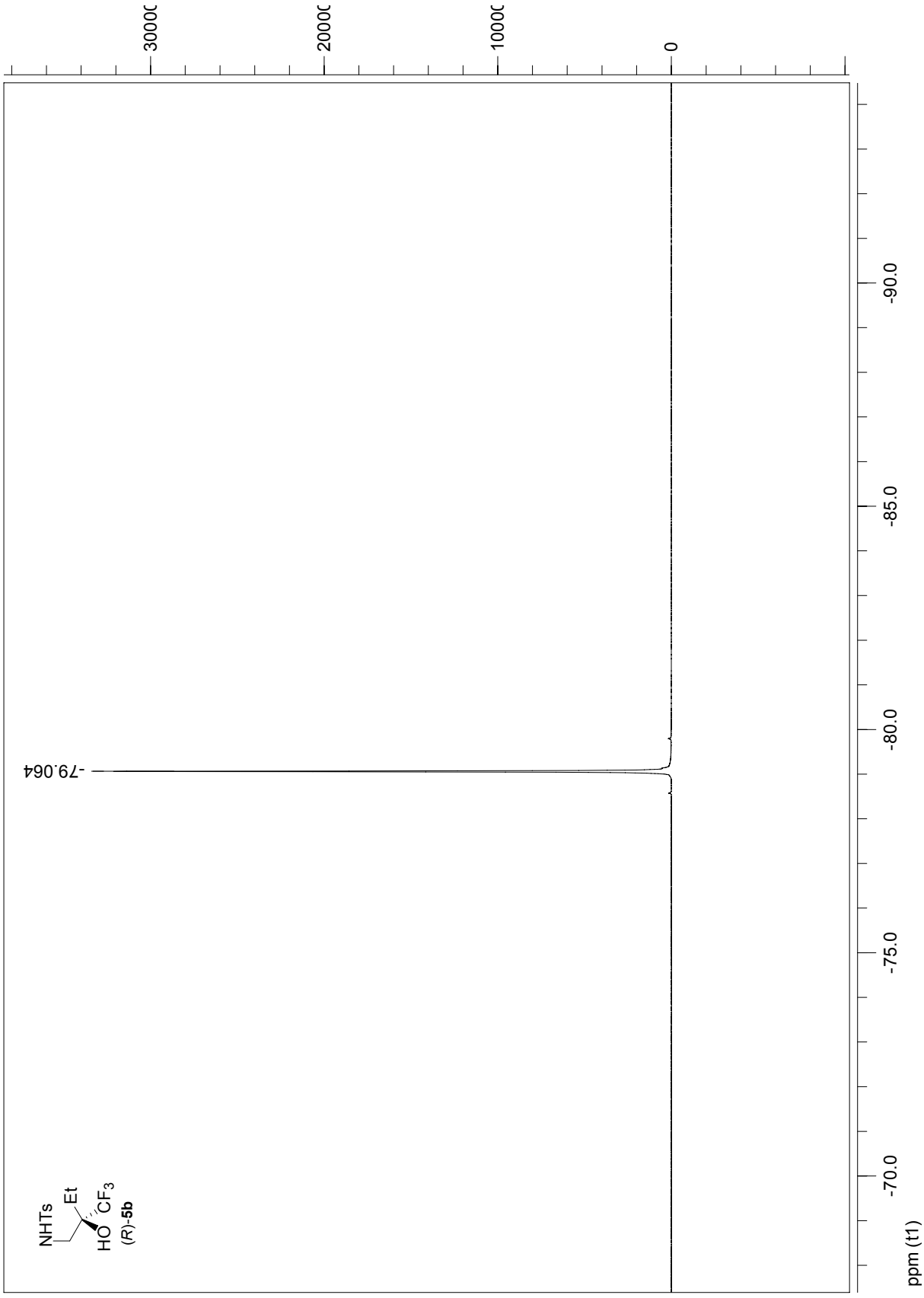
47.296
75.076
75.507
75.952
76.489
117.753
122.304
126.355
126.852
127.036
128.577
128.991
129.928
131.404
134.780
135.675
144.206
NHTs
Ph
HO
CF3
(R)-5a
ppm (t1)


30000
20000
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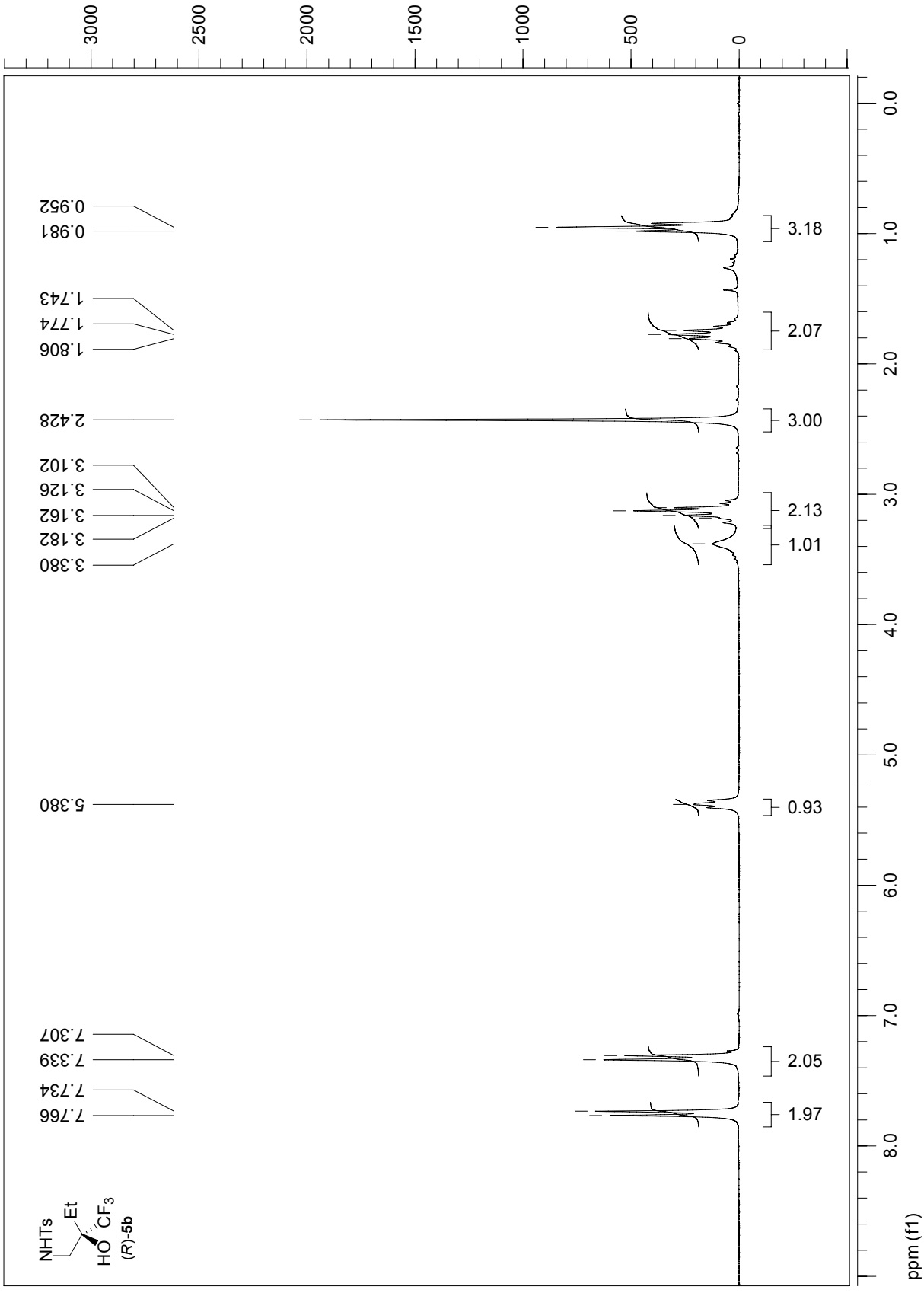
-90.0
ppm (t1)
NHTs
Et
HO
CF3
(R)-5b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500
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0.981
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1.806
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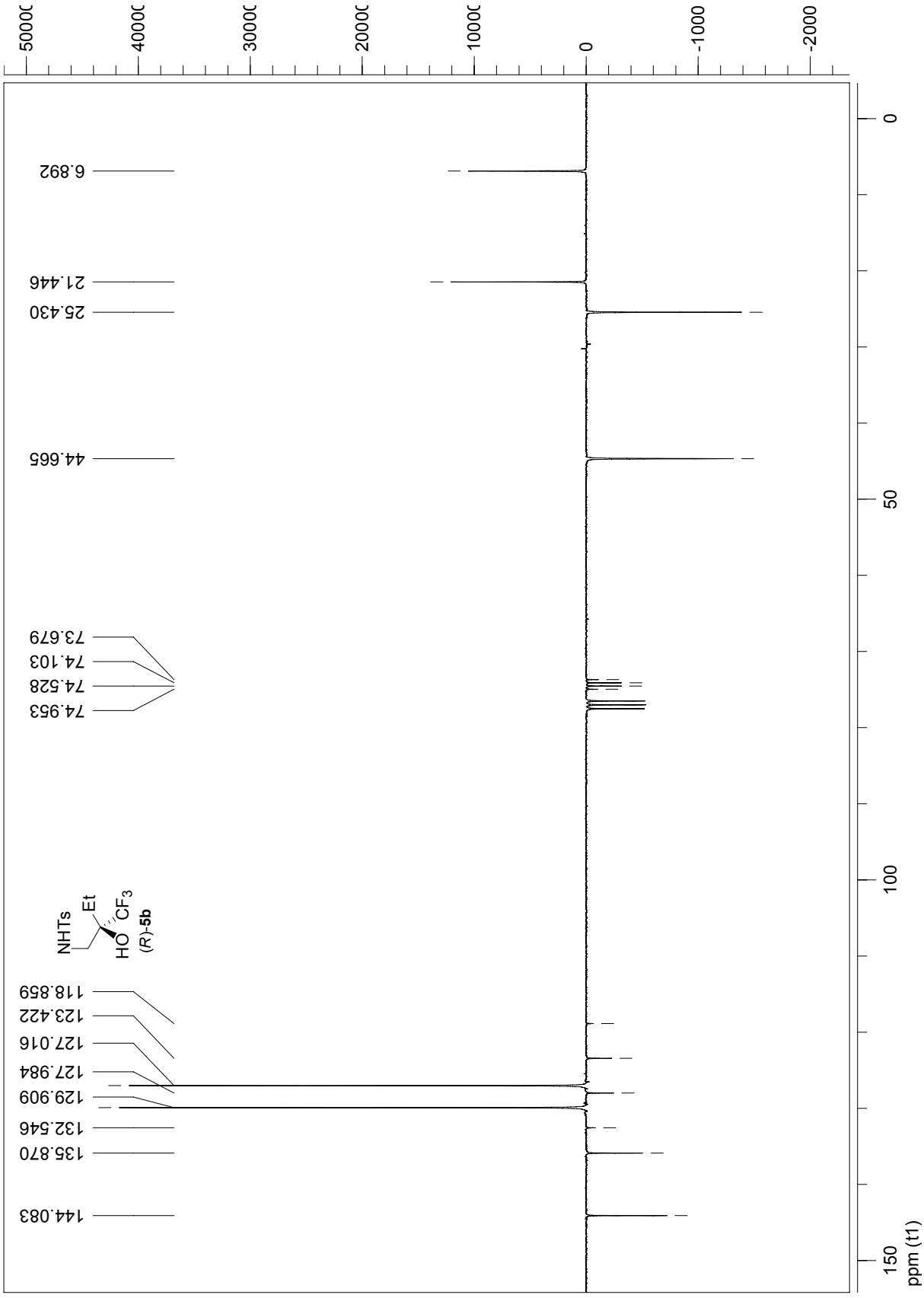
3.102
3.126
3.162
3.182
3.380
5.380
7.307
7.339
7.734
7.766
3.18
2.07
3.00
2.13
1.01
0.93
2.05
1.97
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
ppm (f1)
NHTs
Et
HO
CF3
(R)-5b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74.528
74.953
118.859
123.422
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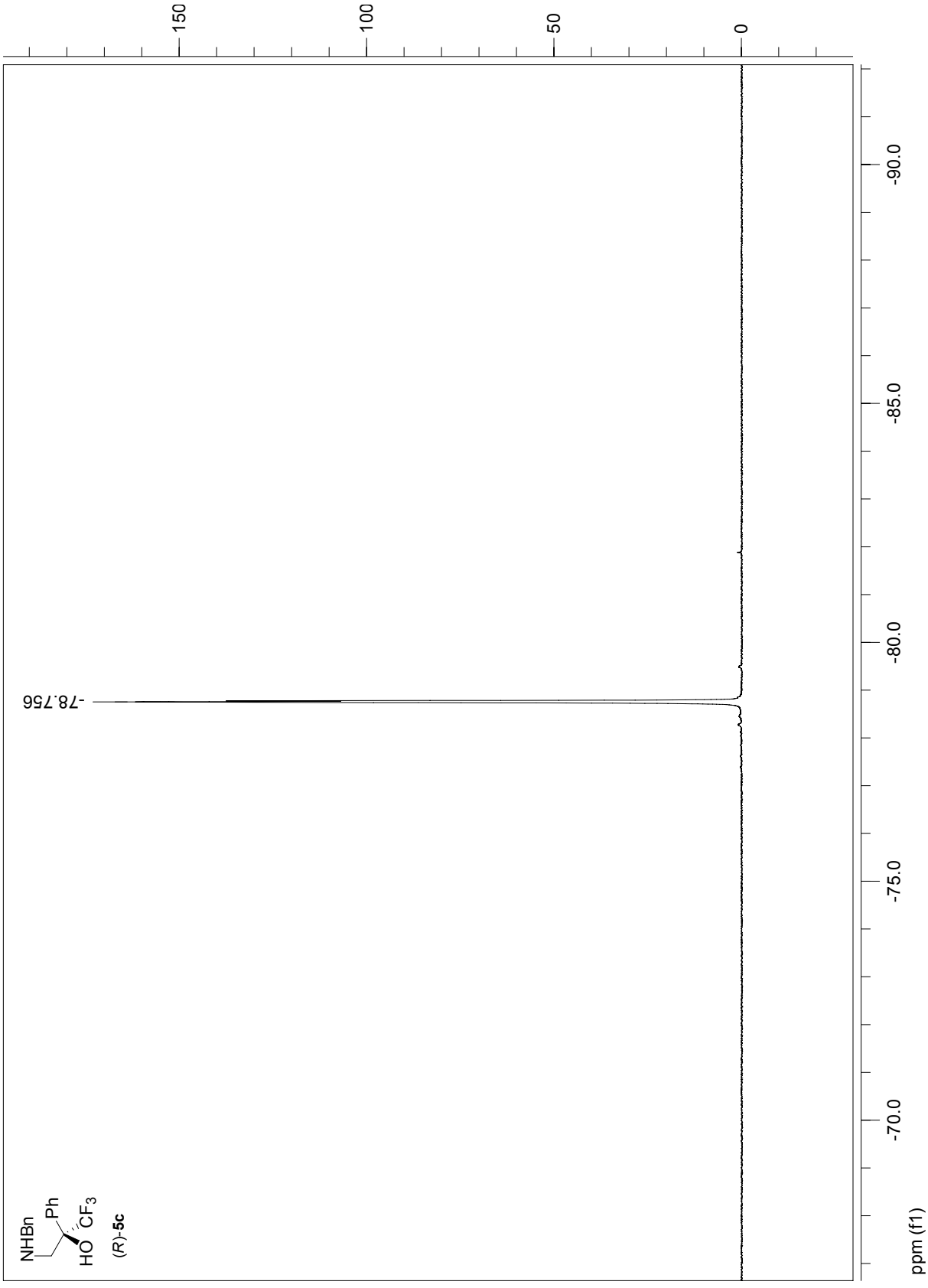
129.909
132.546
135.870
144.083
NHTs
Et
HO
CF3
(R)-5b
ppm (t1)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50
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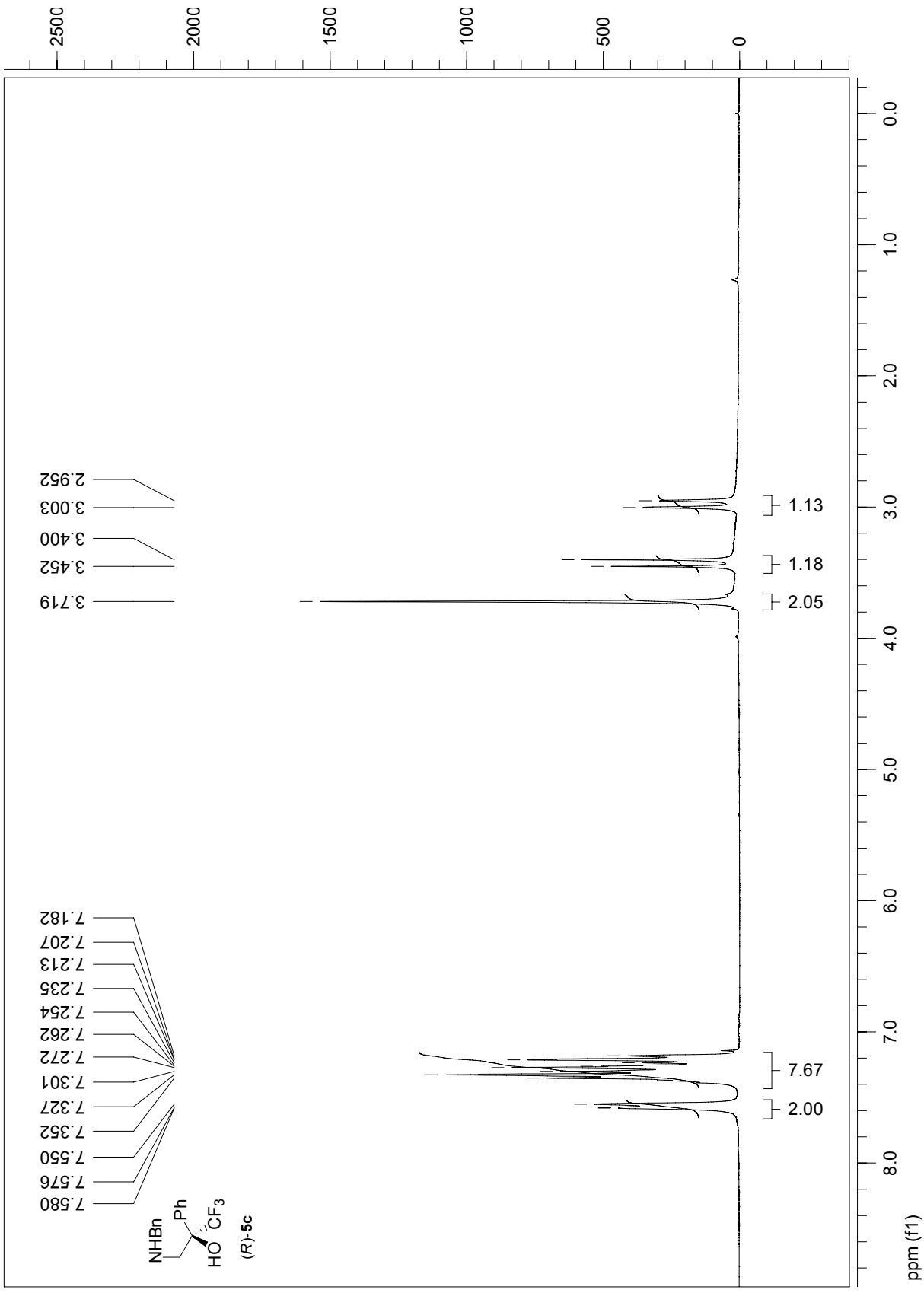
NHBn
Ph
HO
CF3
(R)-5c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1500
1000
500
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3.003
3.400
3.452
3.719
7.182
7.207
7.213
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7.254
7.262
7.272
7.301
7.327
7.352
7.550
7.576
7.580
1.13
1.18
2.05
7.67
2.00
NHBn
Ph
HO
CF3
(R)-5c
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2.0
3.0
4.0
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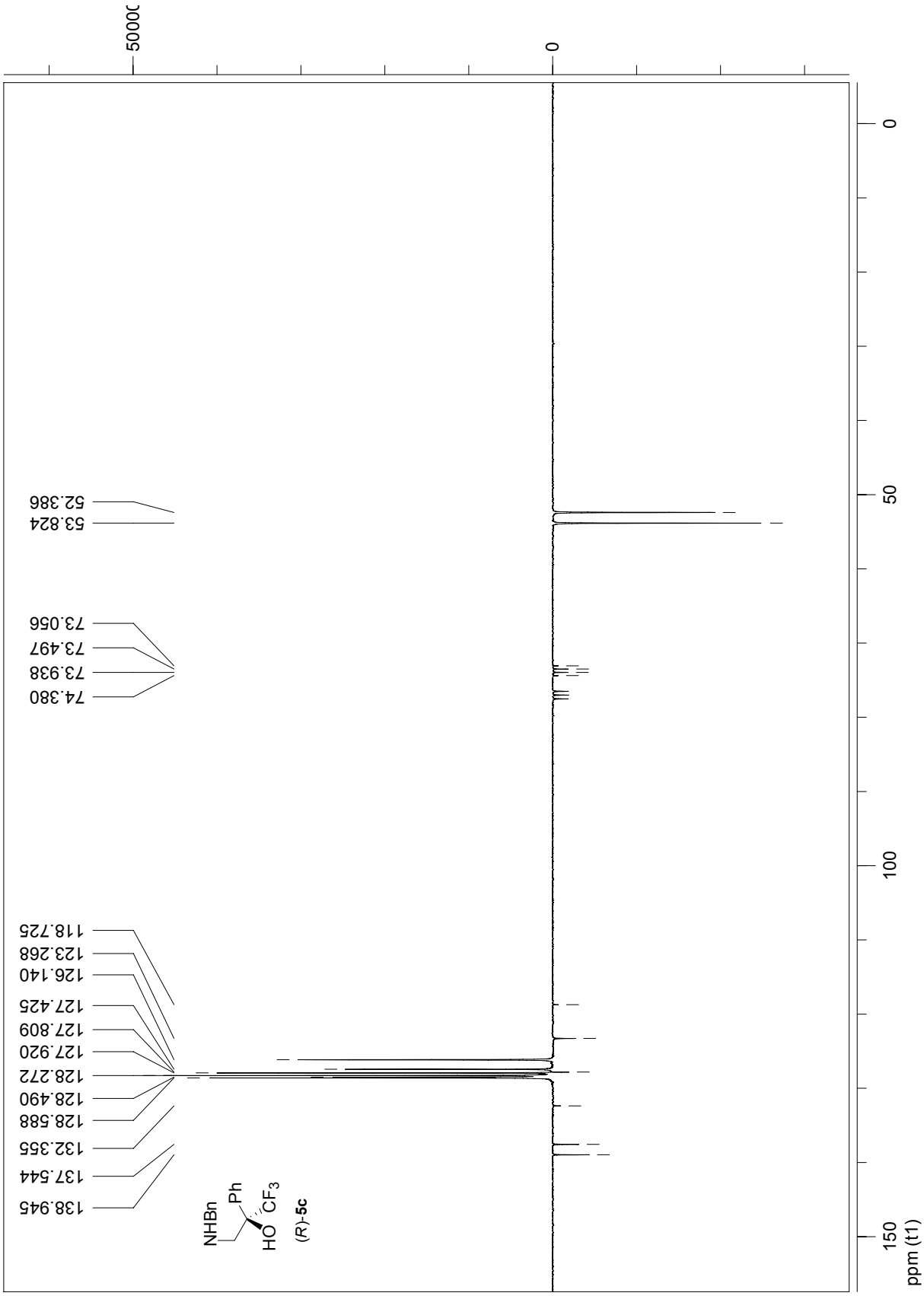
6.0
7.0
8.0
ppm (f1)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100
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ppm (t1)
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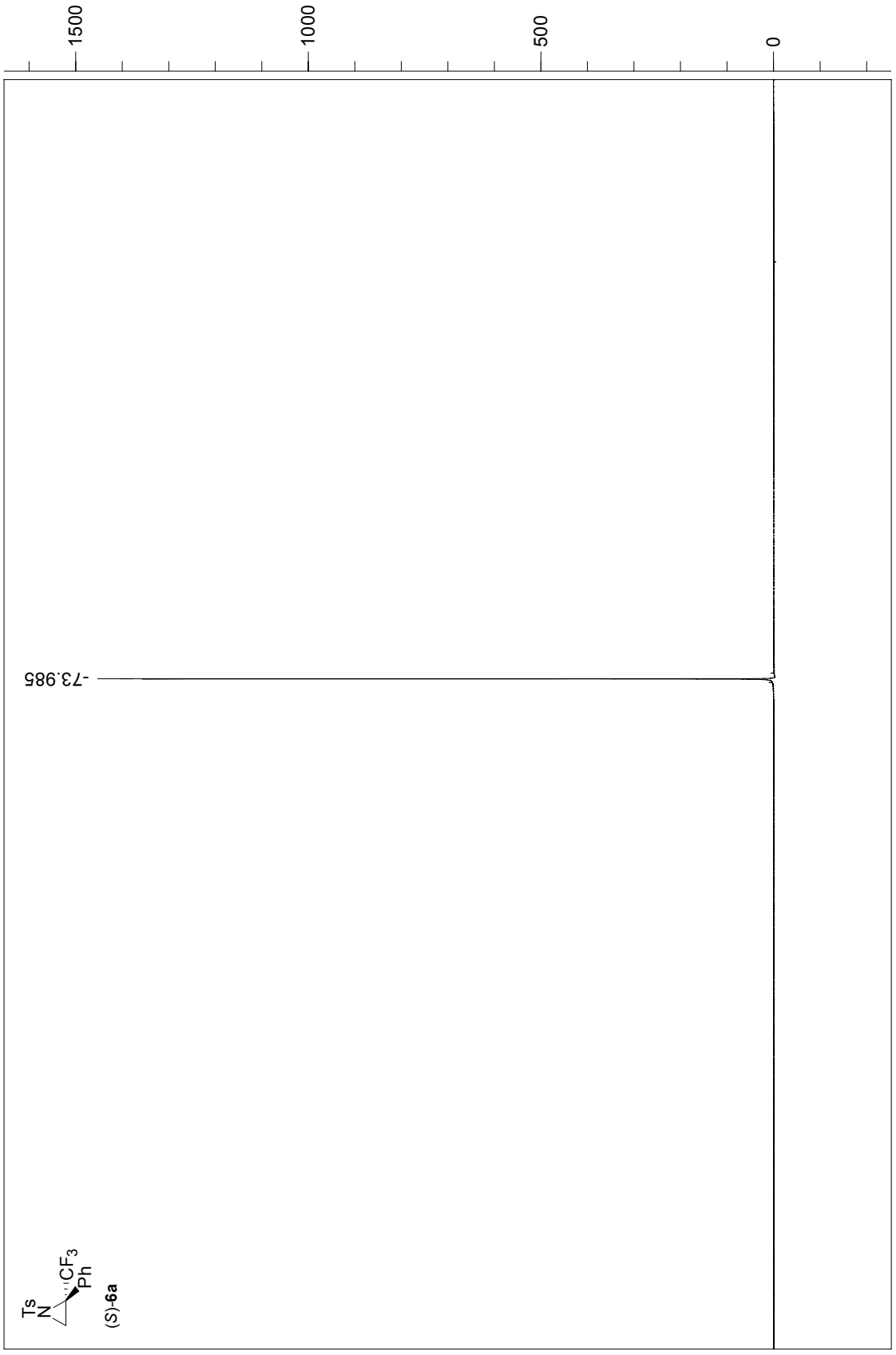
73.938
74.380
118.725
123.268
126.140
127.425
127.809
127.920
128.272
128.490
128.588
132.355
137.544
138.945
NHBn
Ph
HO
CF3
(R)-5c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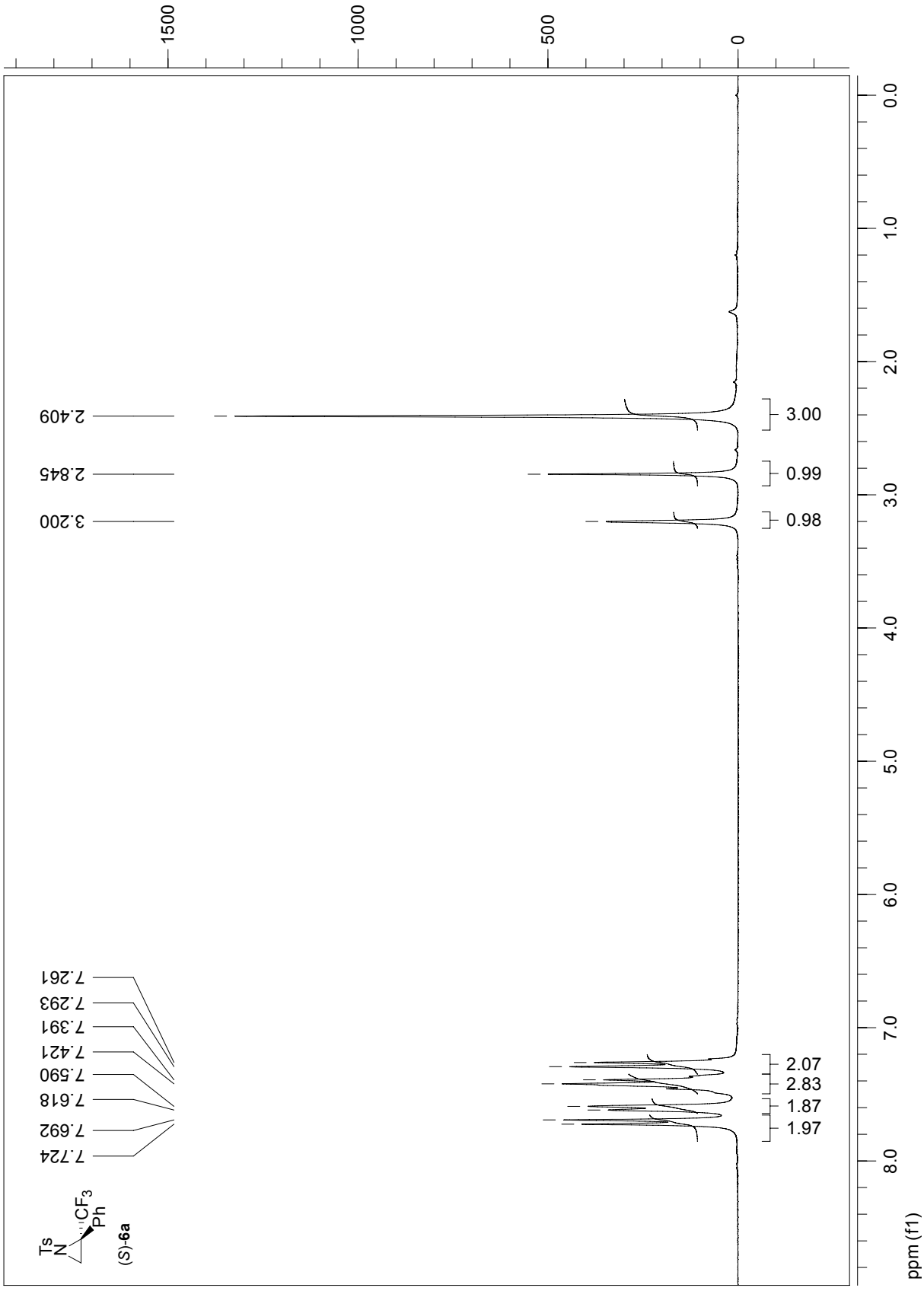
0
ppm (f1)
Ts
N
CF3
Ph
(S)-6a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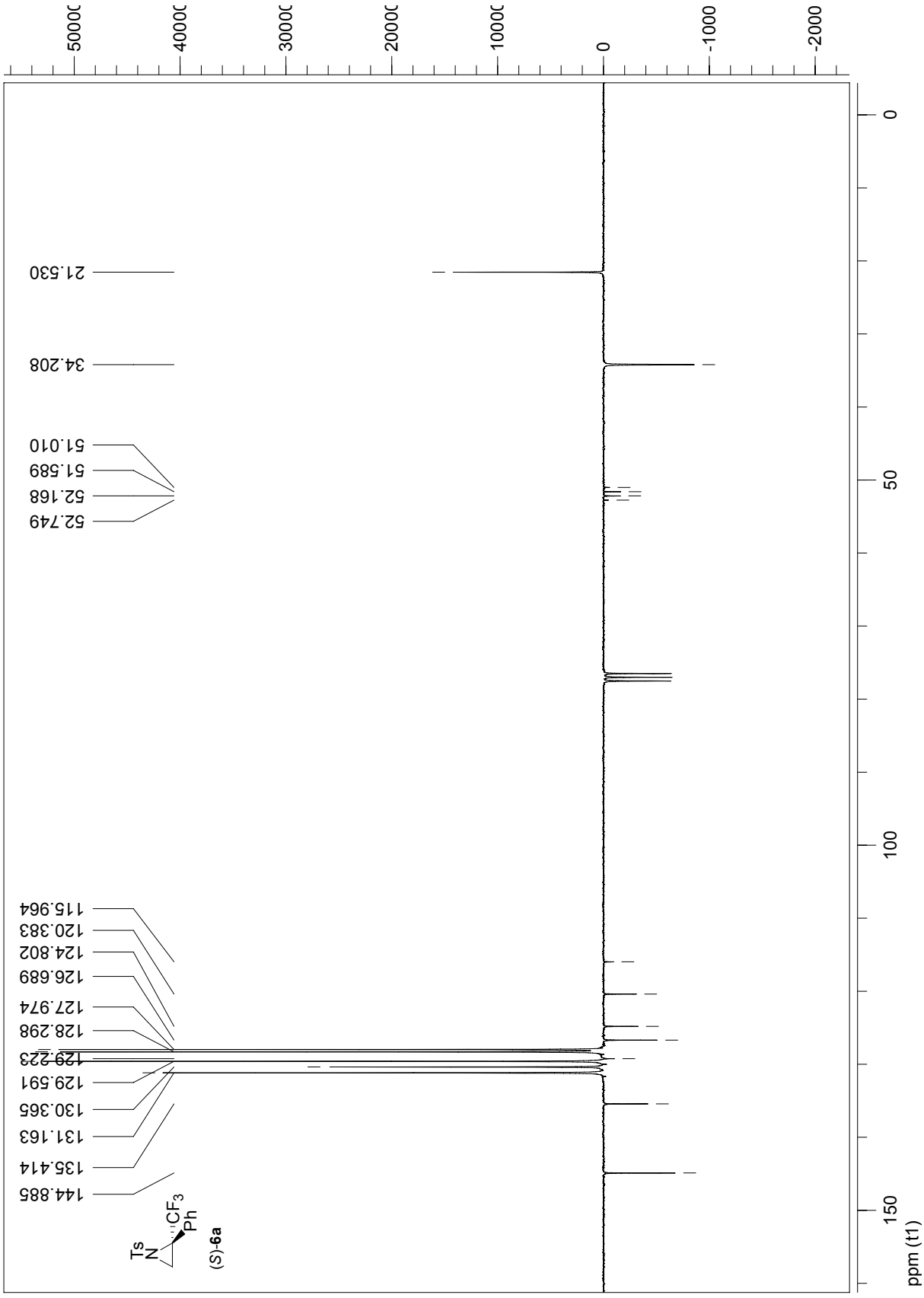
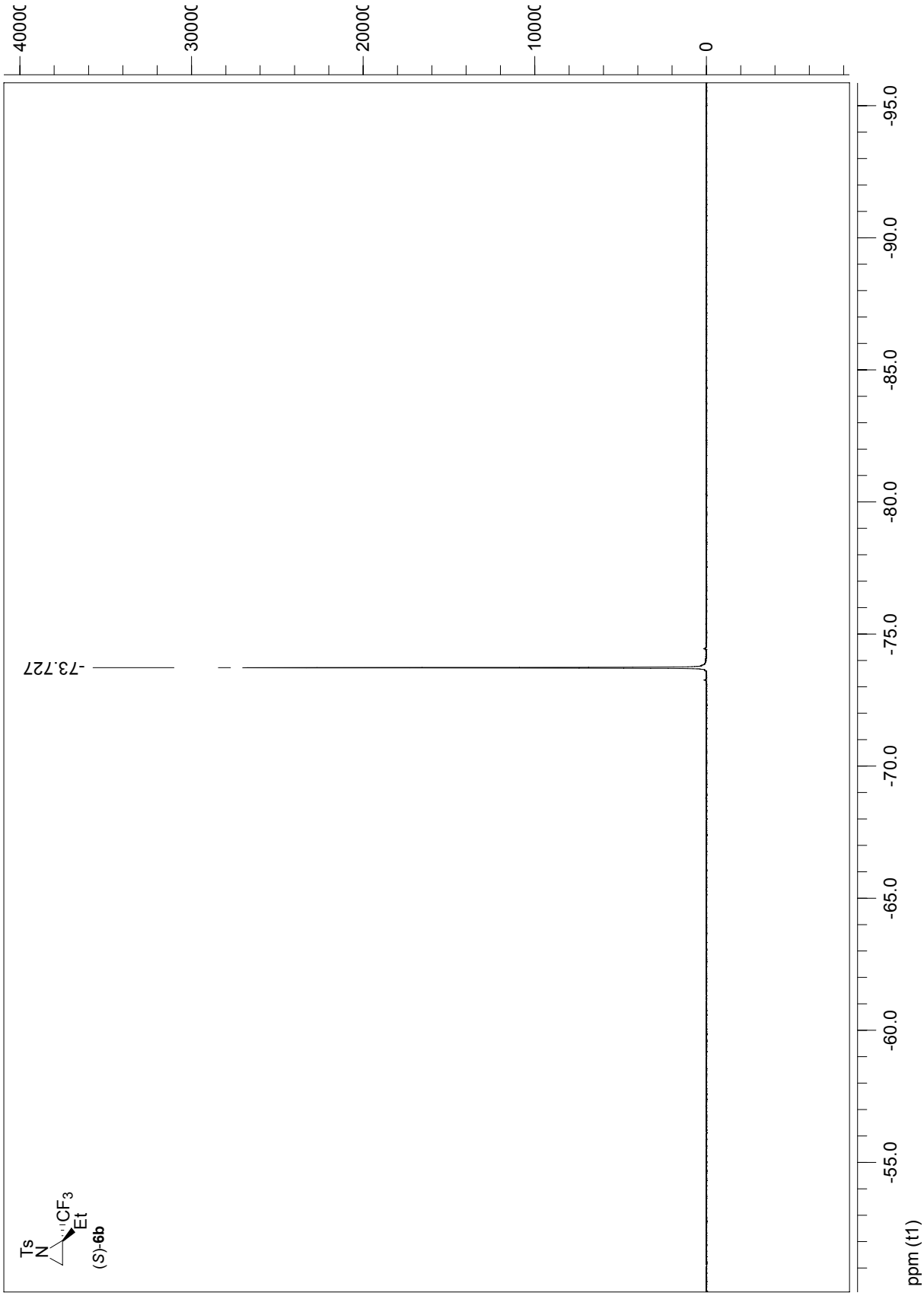
2.409
2.845
3.200
7.261
7.293
7.391
7.421
7.590
7.618
7.692
7.724
3.00
0.99
0.98
2.07
2.83
1.87
1.97
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
ppm (f1)
Ts
N
CF3
Ph
(S)-6a


21.530
34.208
51.010
51.589
52.168
52.749
115.964
120.383
124.802
126.689
127.974
128.298
129.223
129.591
130.365
131.163
135.414
144.885
Ts
N
CF3
Ph
(S)-6a
ppm (t1)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-95.0
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-85.0
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-65.0
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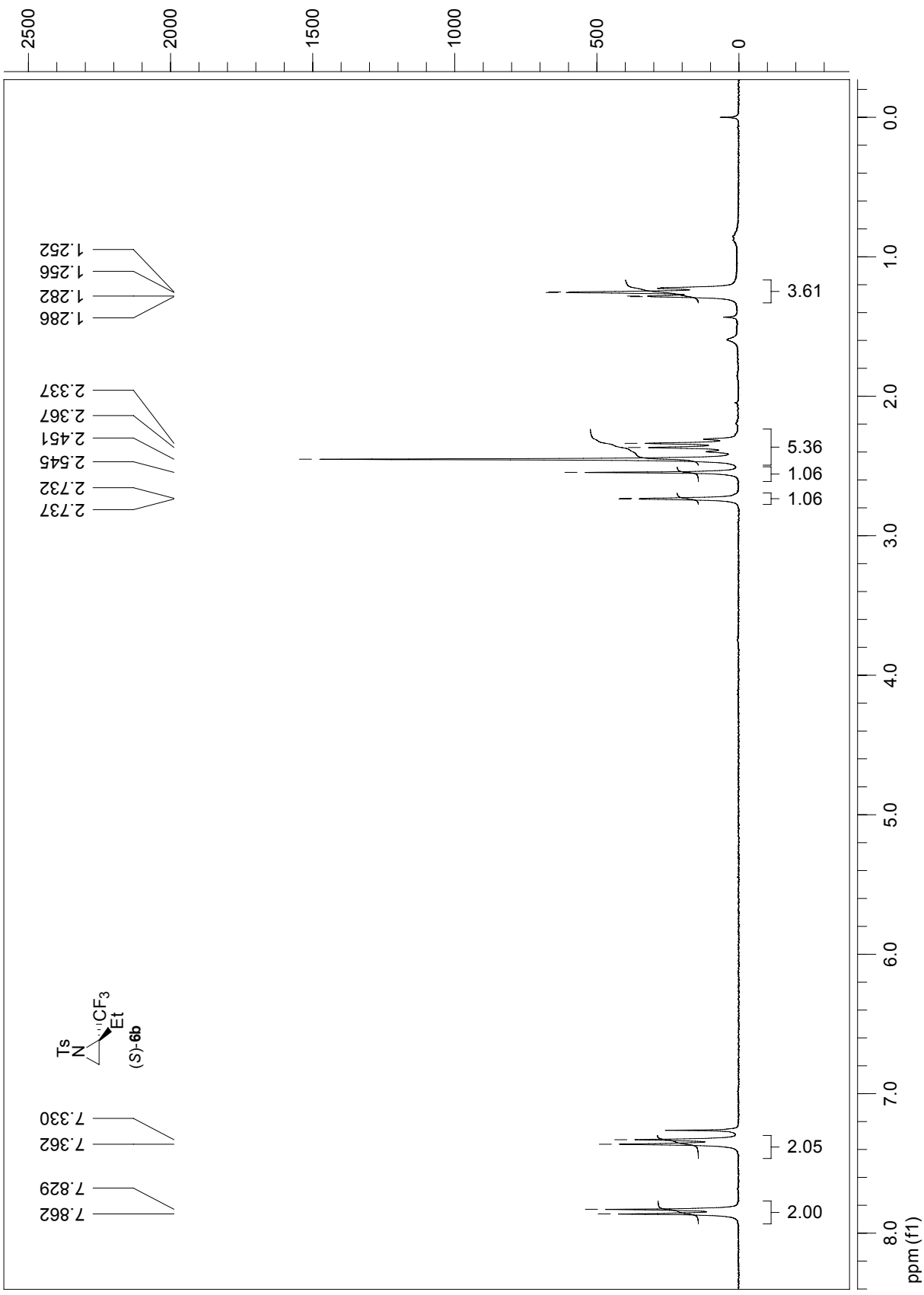
-55.0
ppm (t1)
Ts
N
CF3
Et
(S)-6b


2500
2000
1500
1000
500
0
1.252
1.256
1.282
1.286
2.337
2.367
2.451
2.545
2.732
2.737
7.330
7.362
7.829
7.862
3.61
5.36
1.06
1.06
2.05
2.00
Ts
N
CF3
Et
(S)-6b
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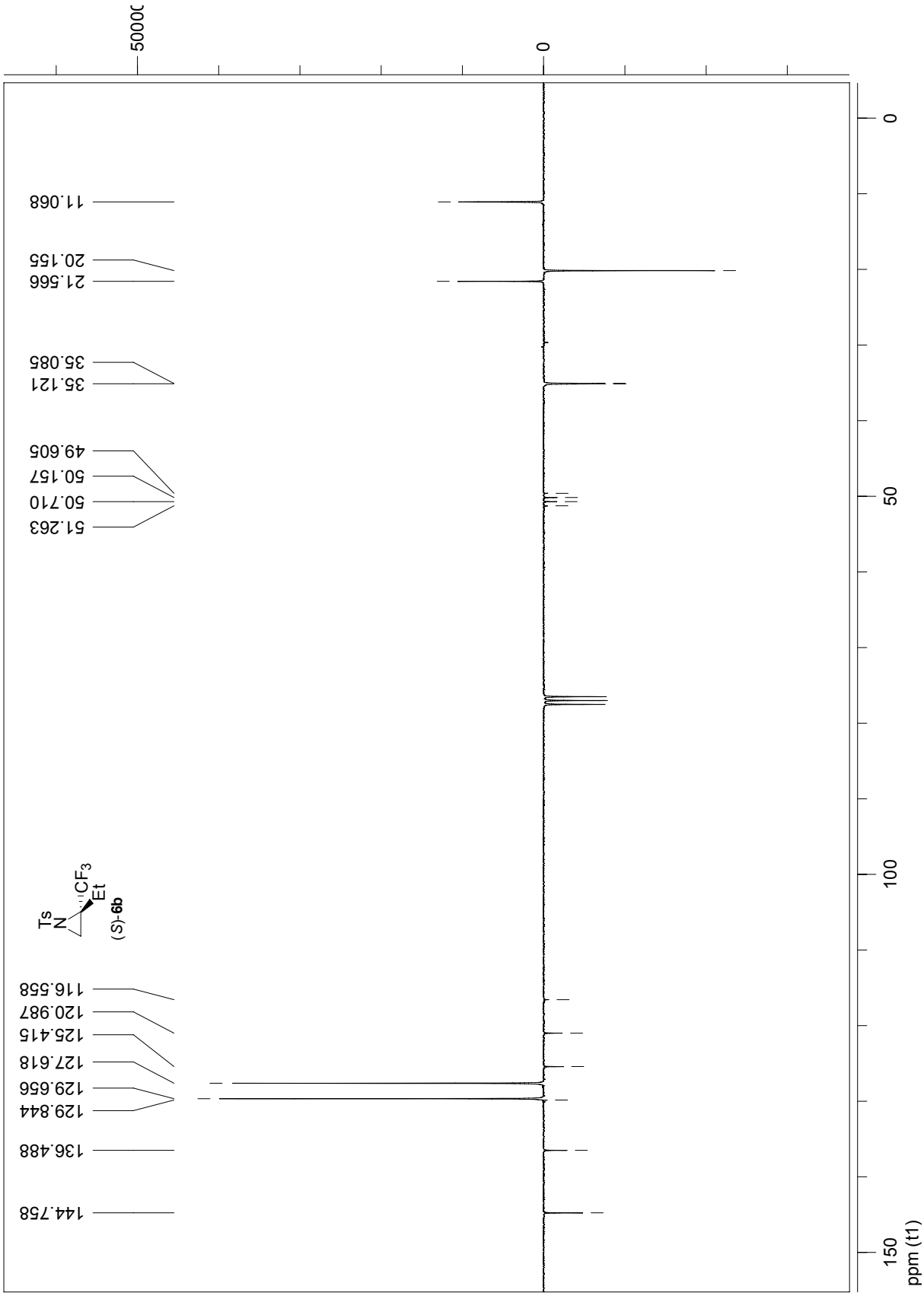
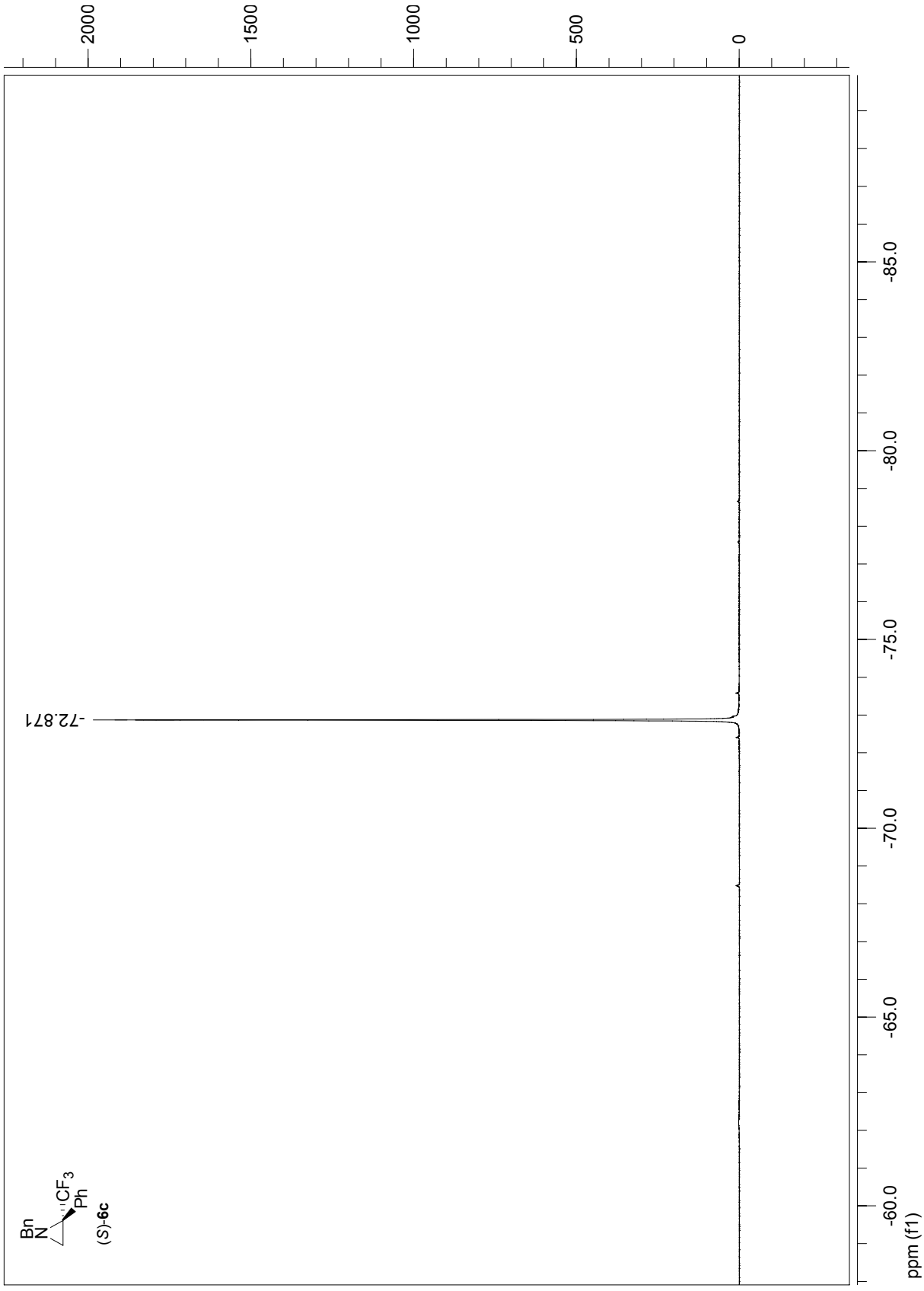
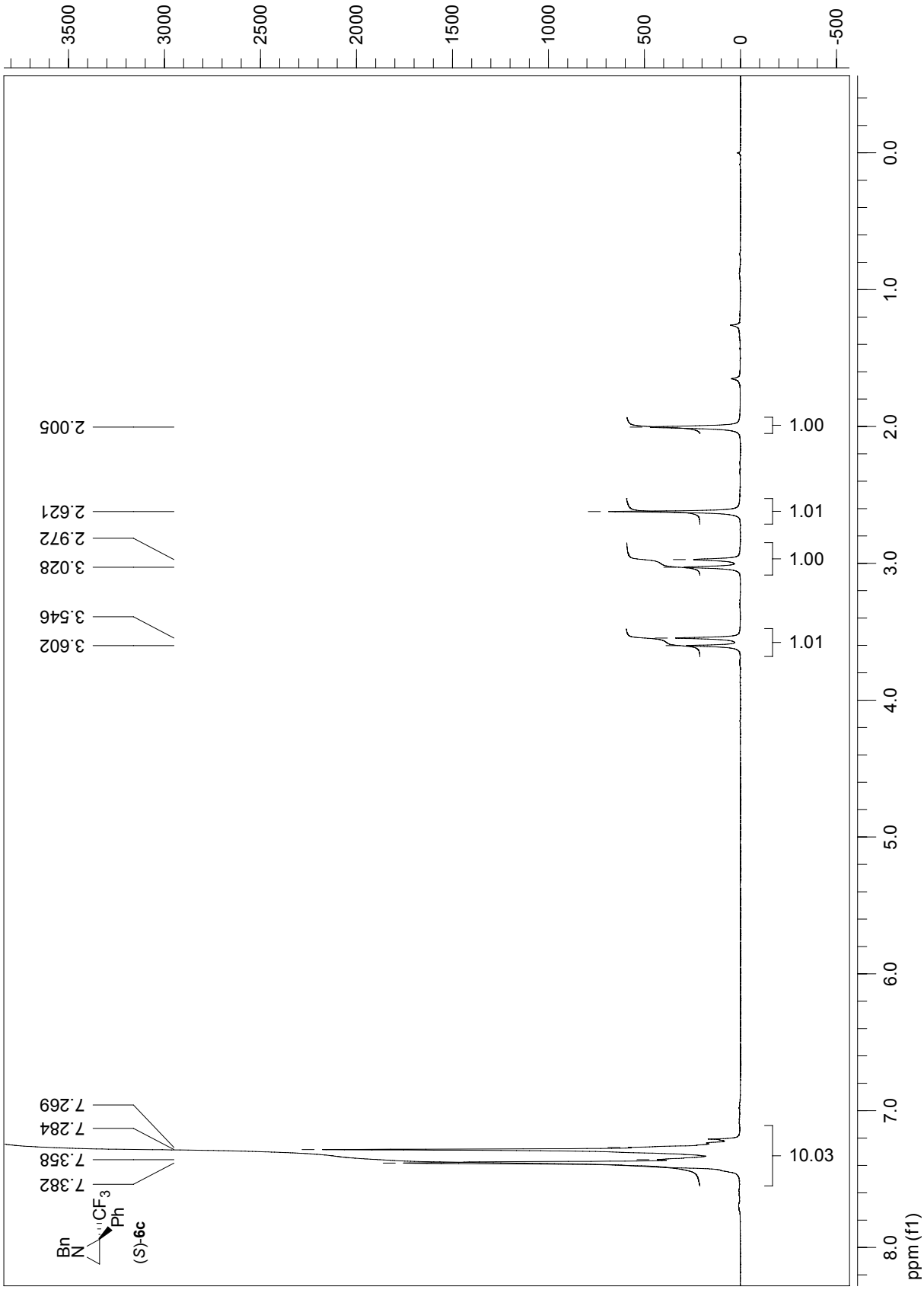
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
ppm (f1)


11.068
20.155
21.566
35.085
35.121
49.605
50.157
50.710
51.263
116.558
120.987
125.415
127.618
129.656
129.844
136.488
144.758
Ts
N
CF3
Et
(S)-6b
5000
0
0
50
100
150
ppm (t1)


2000
1500
1000
500
0
-72.871
-60.0
-65.0
-70.0
-75.0
-80.0
-85.0
ppm (f1)
Bn
N
CF3
Ph
(S)-6c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3000
2500
2000
1500
1000
500
0
-500
2.005
2.621
2.972
3.028
3.546
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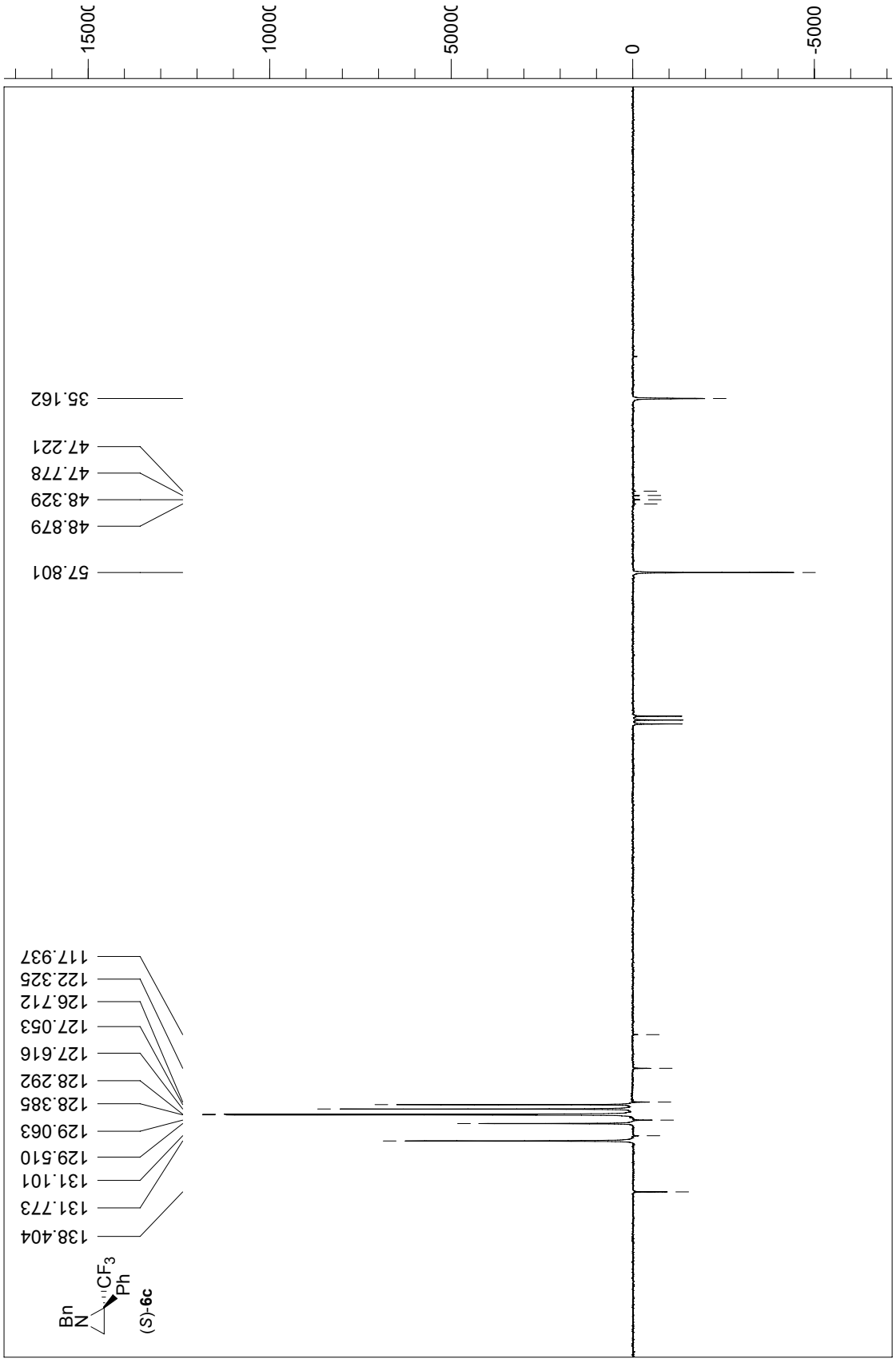
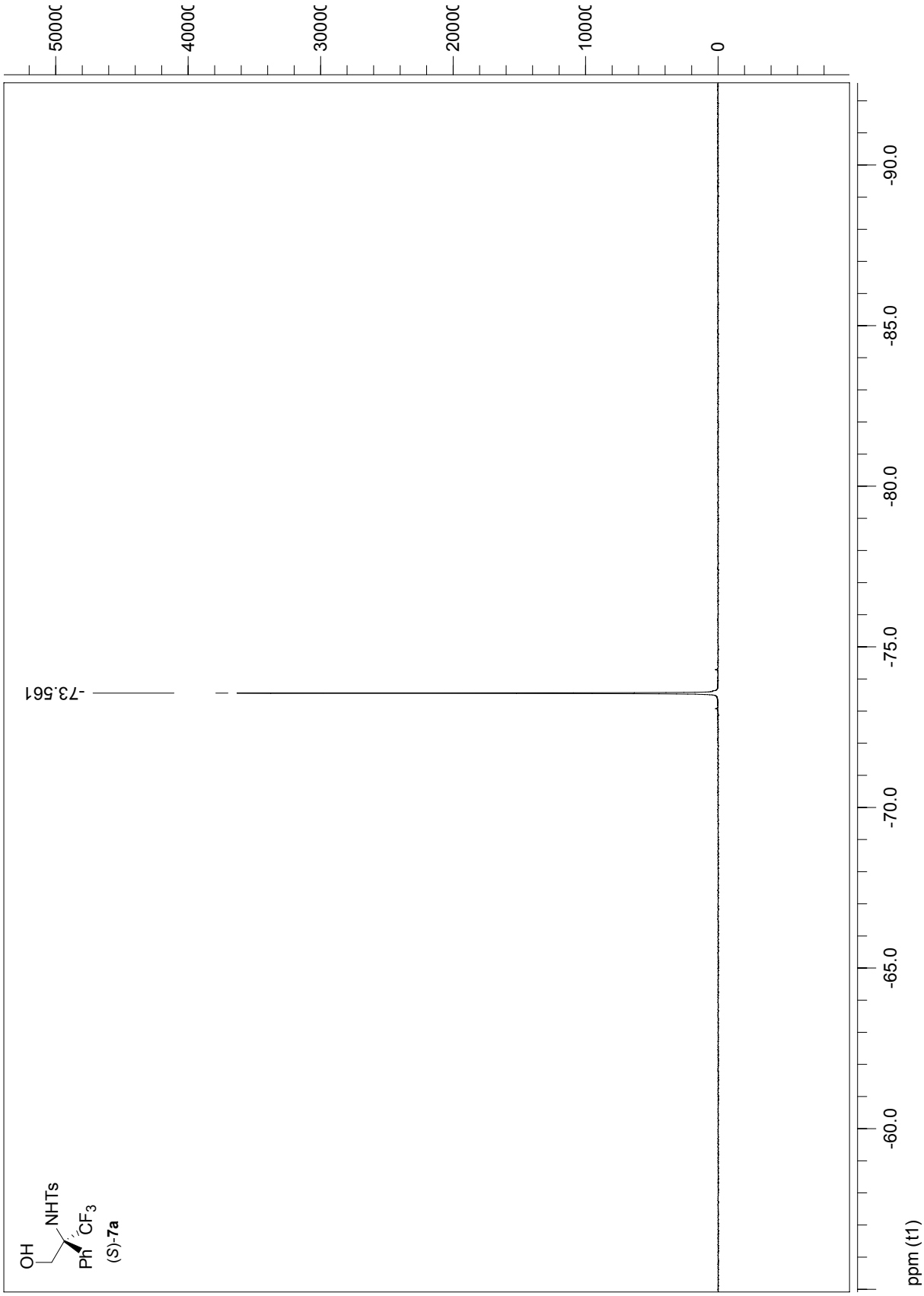
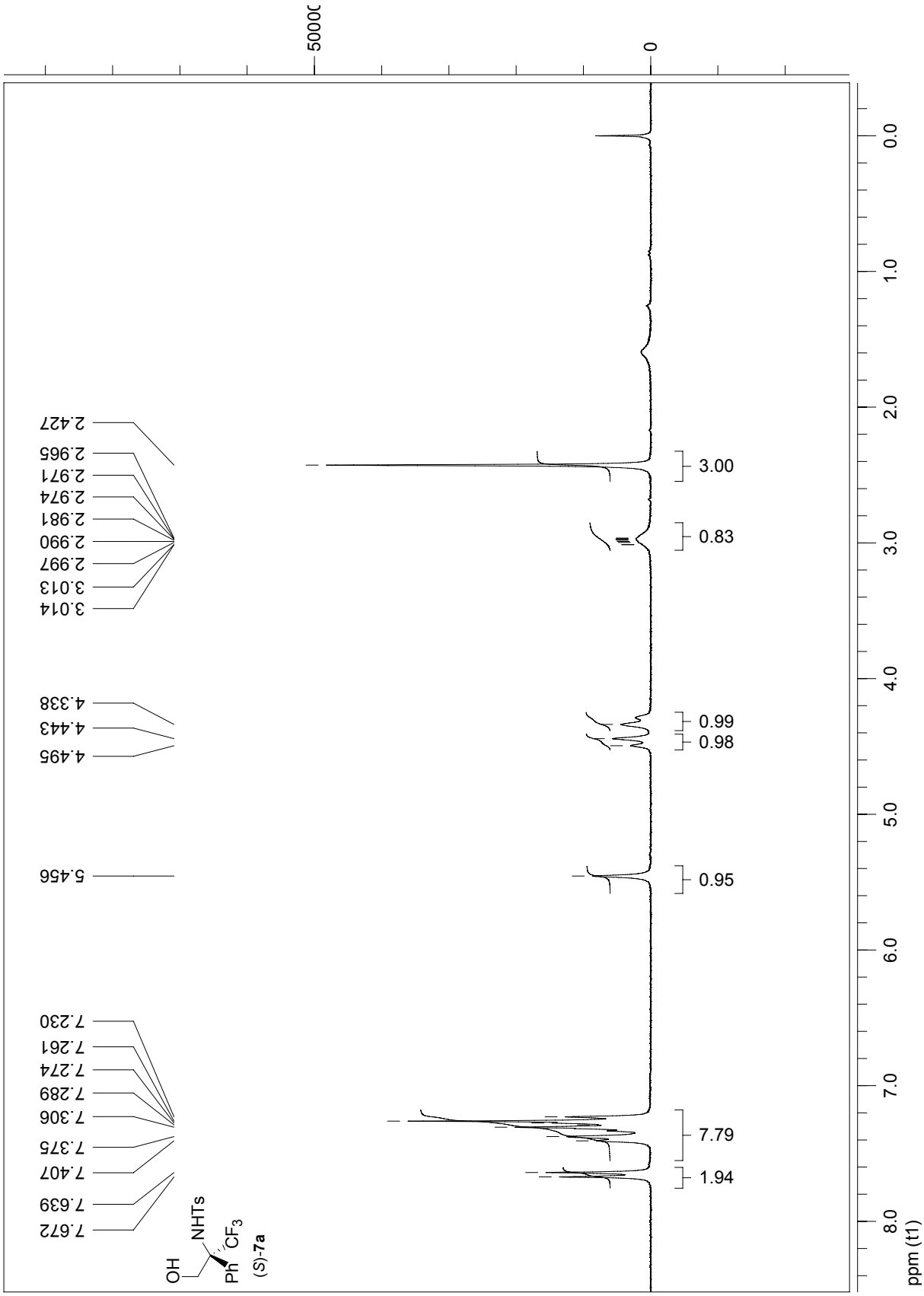
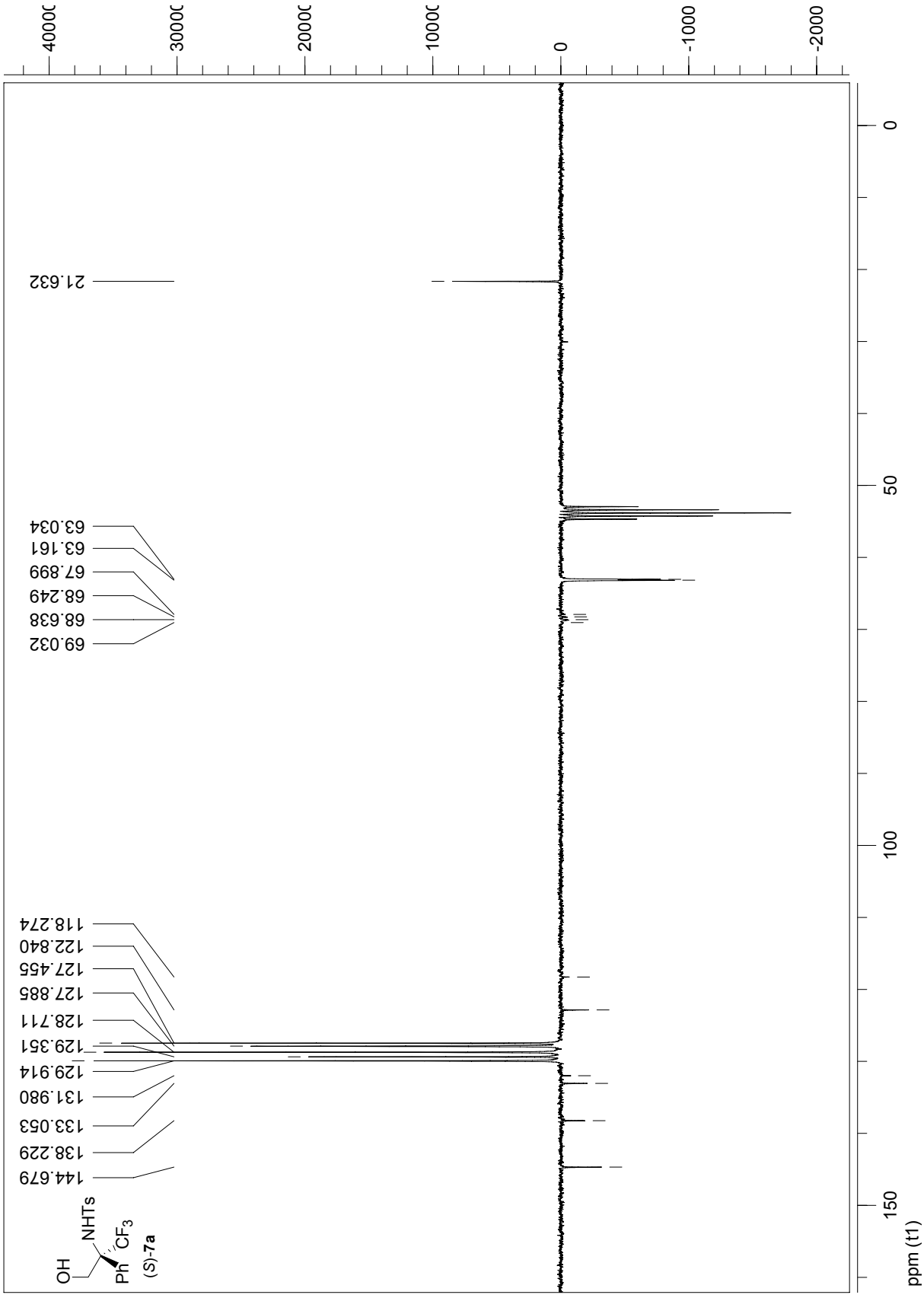
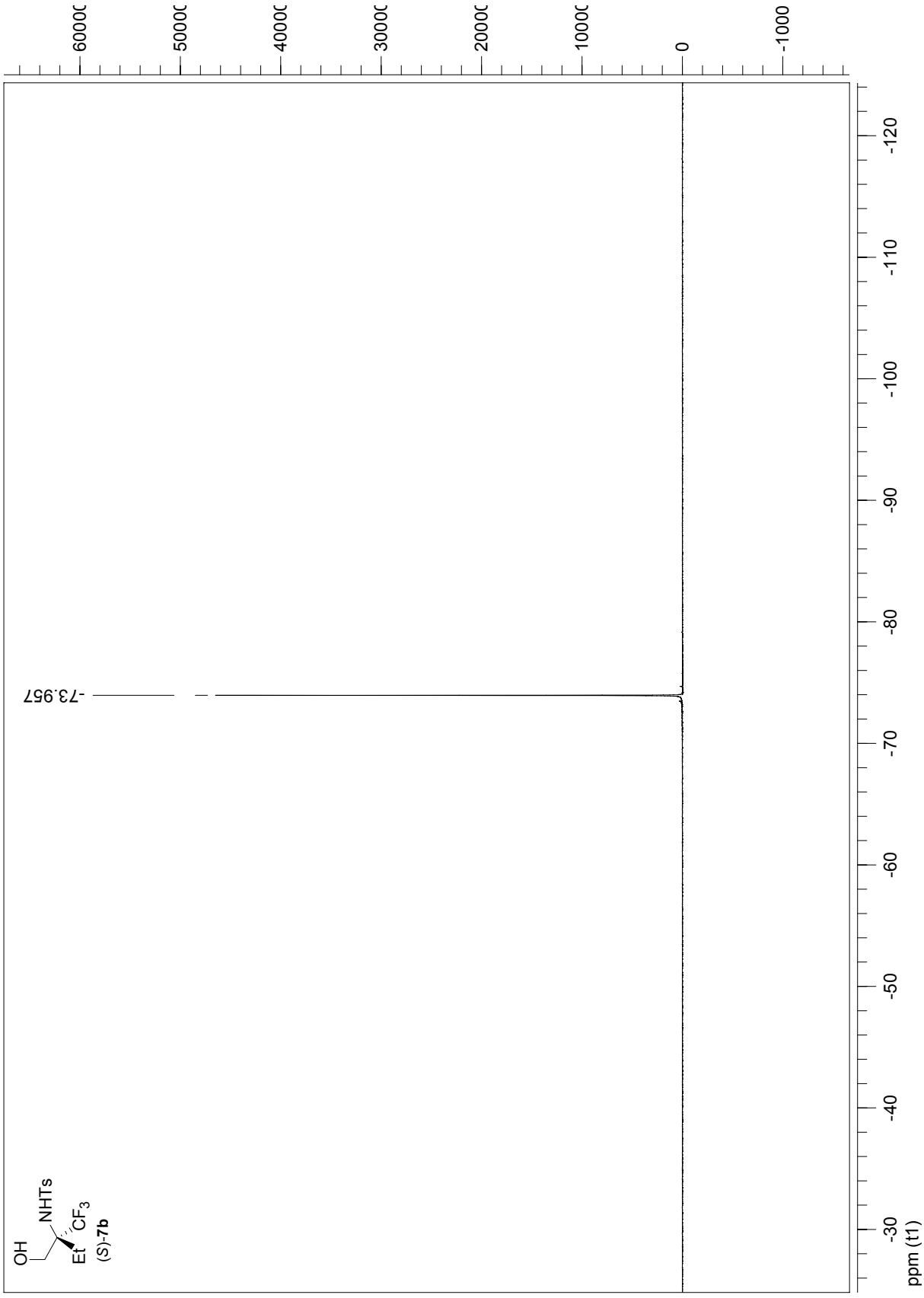
7.284
7.358
7.382
1.00
1.01
1.00
1.01
10.03
Bn
N
CF3
Ph
(S)-6c
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
ppm (f1)

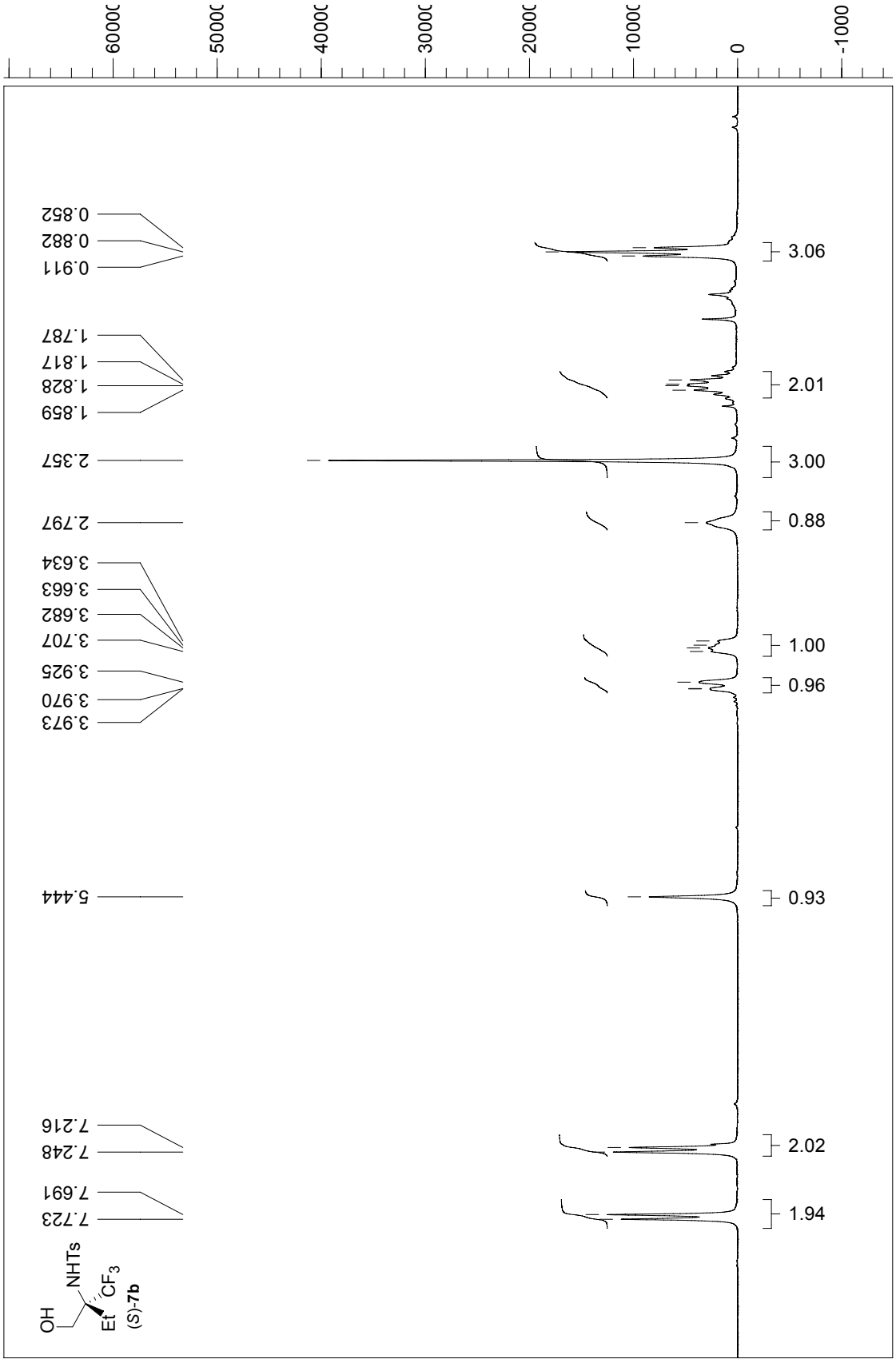

35.162
47.221
47.778
48.329
48.879
57.801
117.937
122.325
126.712
127.053
127.616
128.292
128.385
129.063
129.510
131.101
131.773
138.404
Bn
N
CF3
Ph
(S)-6c
ppm (f1)

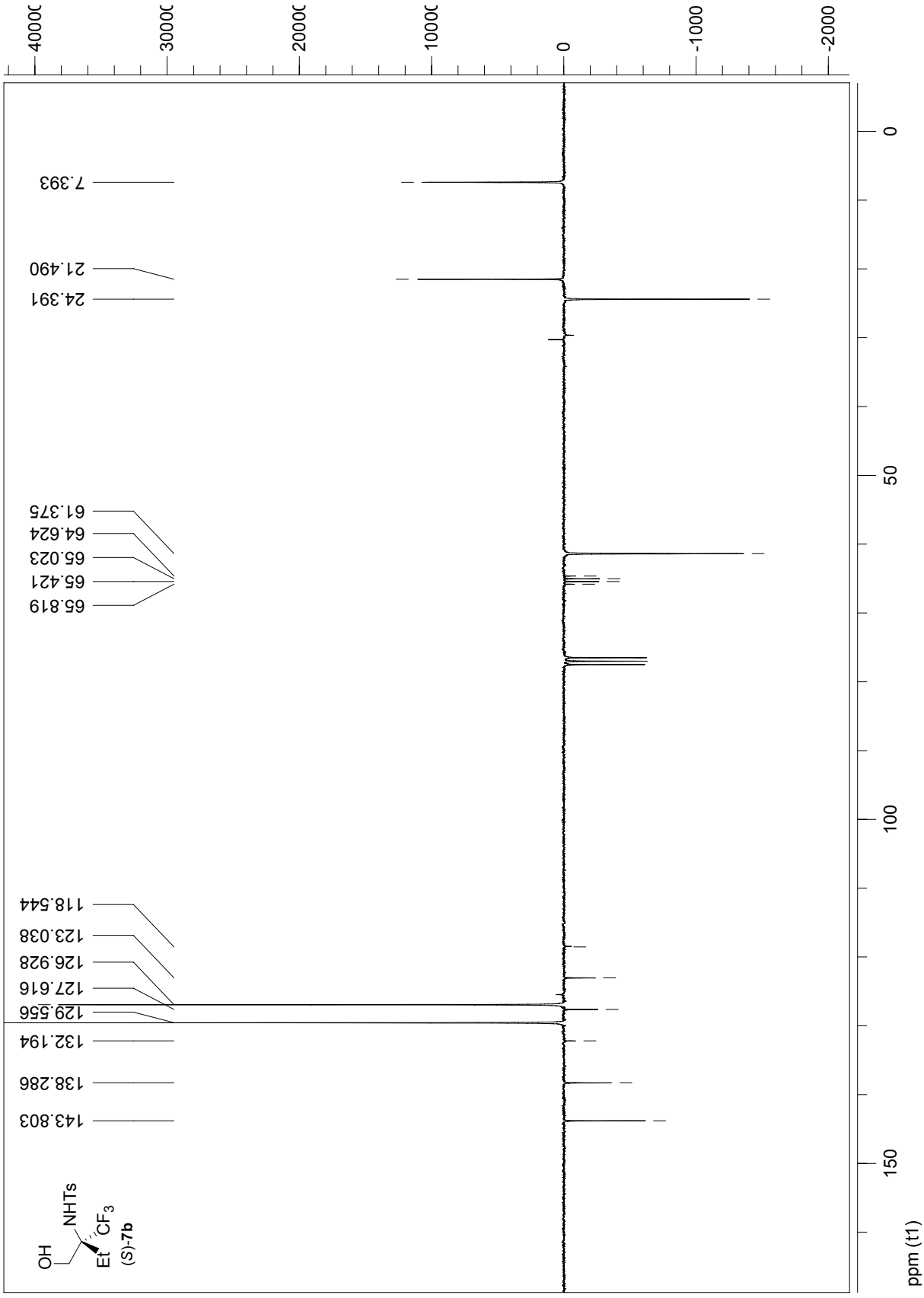

50000
40000
30000
20000
10000
0
-73.561
-60.0
-65.0
-70.0
-75.0
-80.0
-85.0
-90.0
ppm (t1)
OH
NHTs
Ph
CF3
(S)-7a

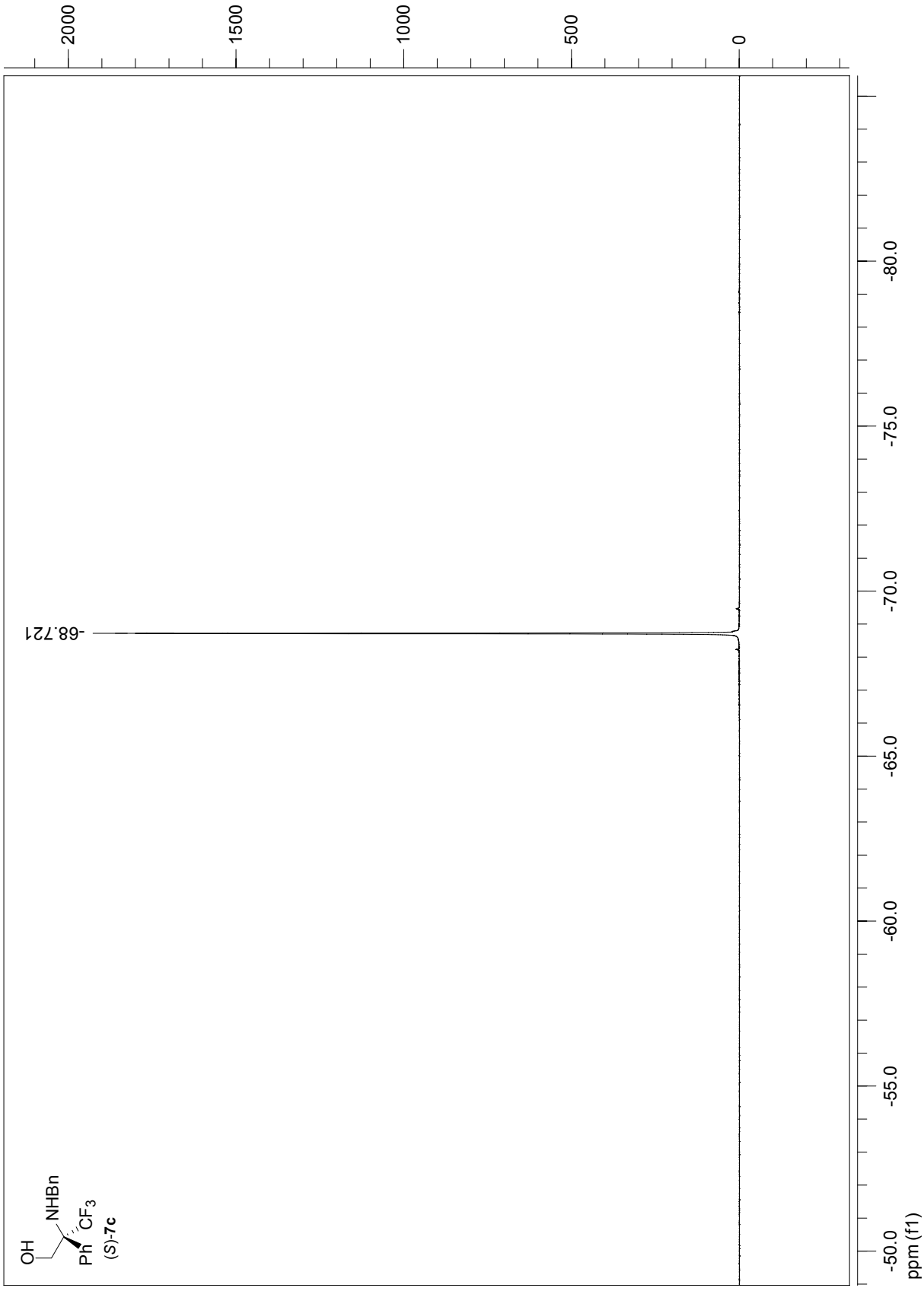

5000
0
2.427
2.965
2.971
2.974
2.981
2.990
2.997
3.013
3.014
4.338
4.443
4.495
5.456
7.230
7.261
7.274
7.289
7.306
7.375
7.407
7.639
7.672
3.00
0.83
0.99
0.98
0.95
7.79
1.94
OH
NHTs
Ph
CF3
(S)-7a
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
ppm (t1)

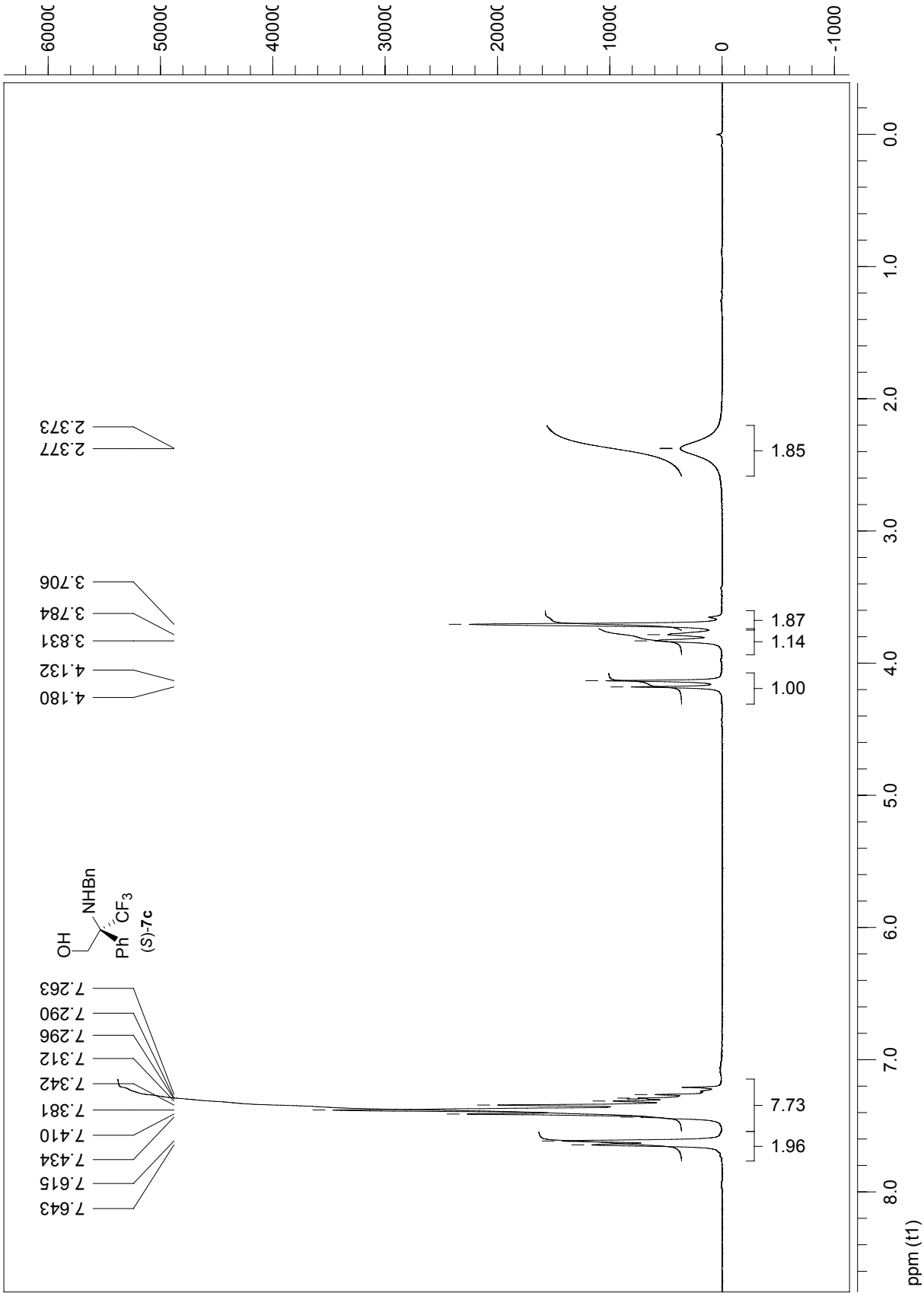

144.679
138.229
133.053
131.980
129.914
129.351
128.711
127.885
127.455
122.840
118.274
69.032
68.638
68.249
67.899
63.161
63.034
21.632
OH
NHTs
Ph
CF3
(S)-7a
ppm (t1)

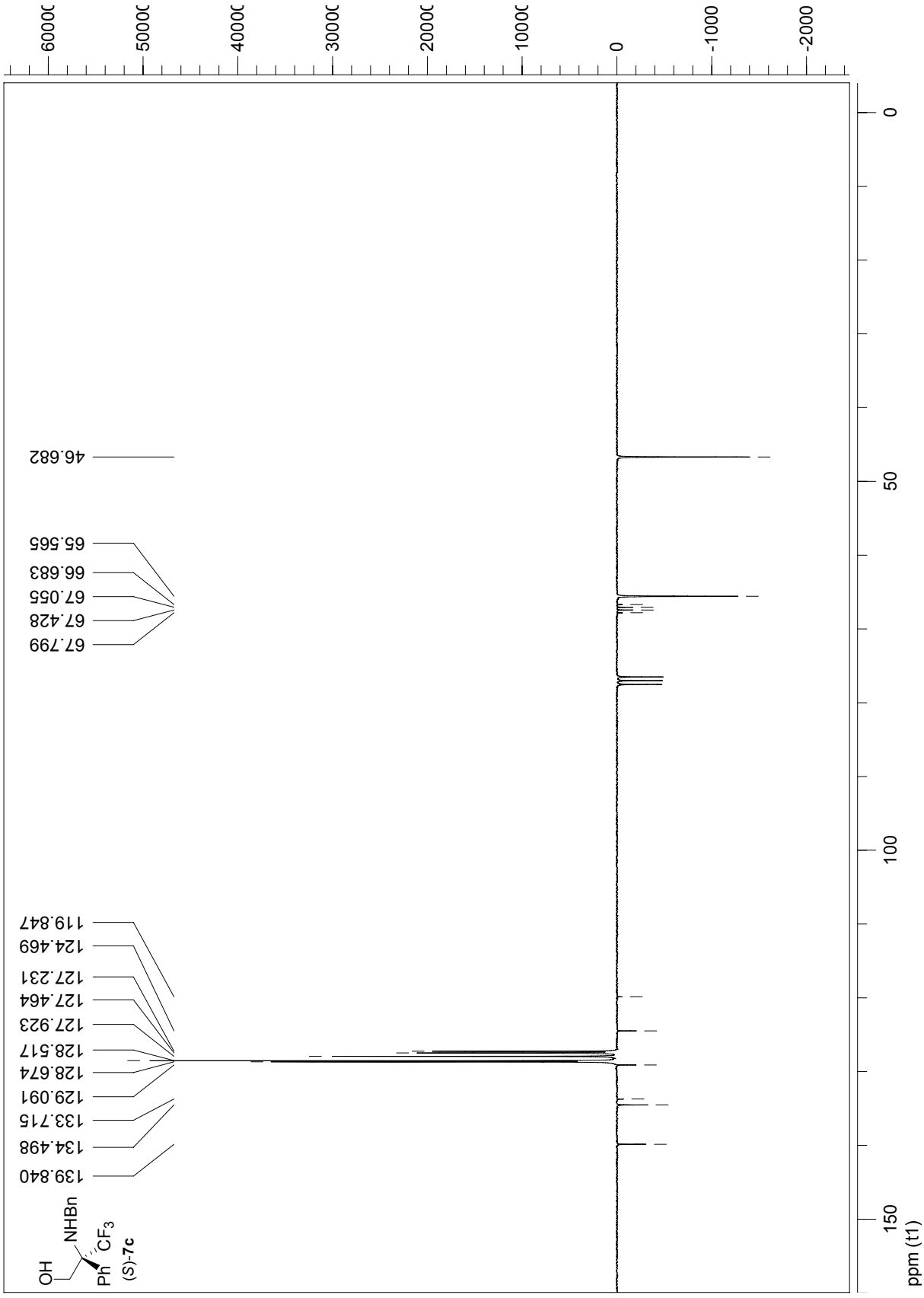

-73.957
OH
NHTs
Et
CF3
(S)-7b
ppm (t1)

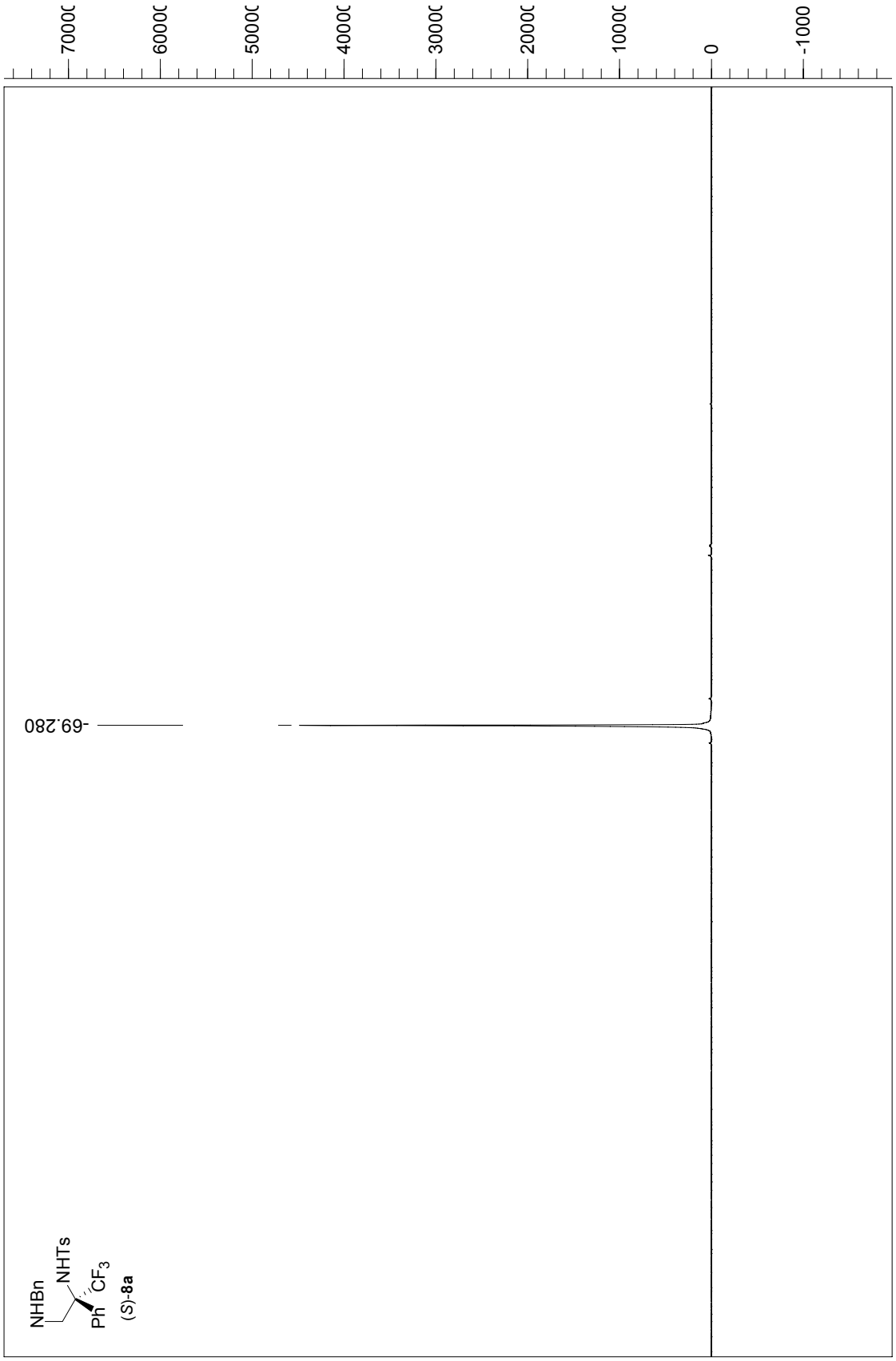

OH
NHTs
Et
CF3
(S)-7b
7.723
7.691
7.248
7.216
5.444
3.973
3.970
3.925
3.707
3.682
3.663
3.634
2.797
2.357
1.859
1.828
1.817
1.787
0.911
0.882
0.852
1.94
2.02
0.93
0.96
1.00
0.88
3.00
2.01
3.06
ppm (t1)

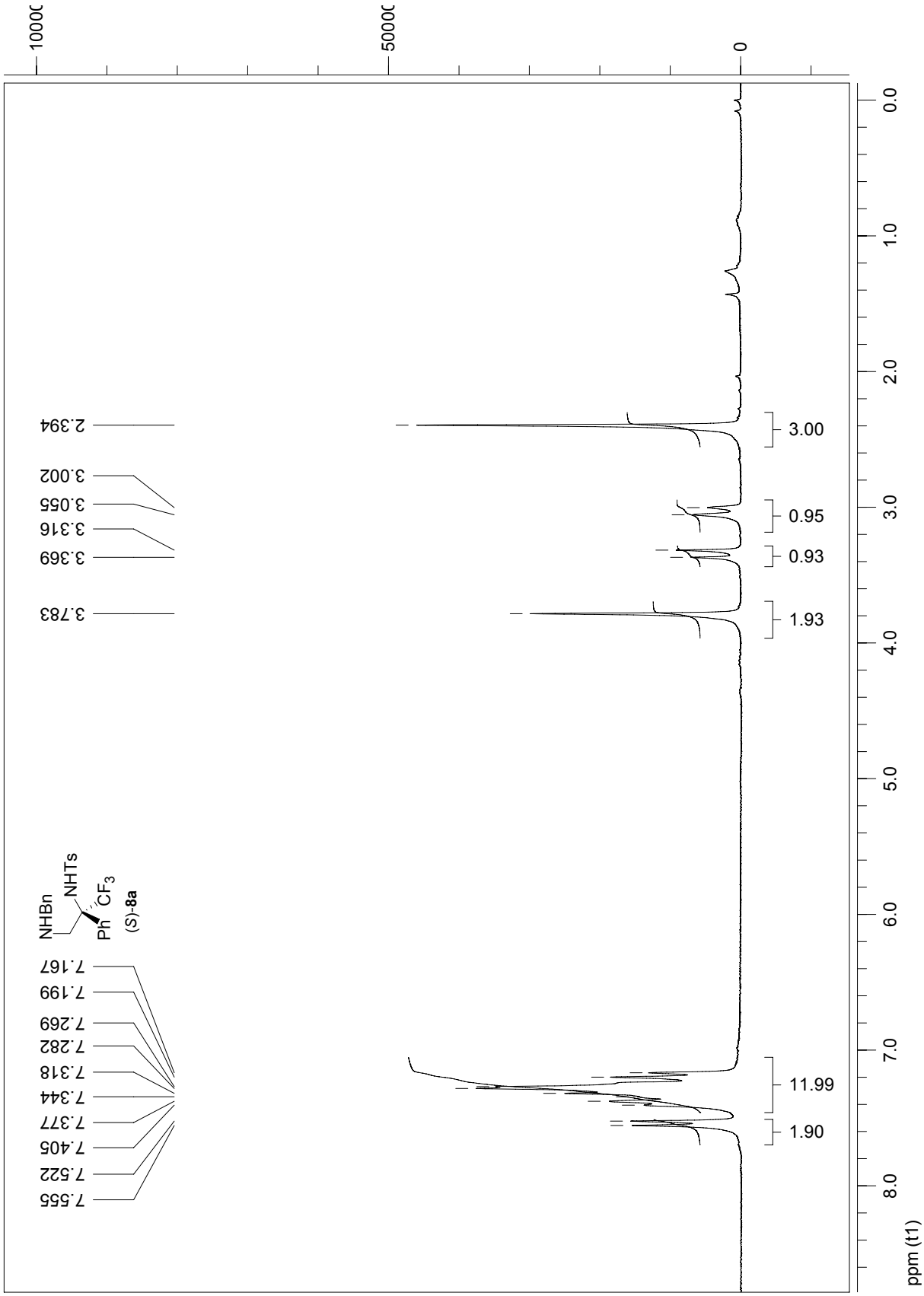

7.393
21.490
24.391
61.375
64.624
65.023
65.421
65.819
118.544
123.038
126.928
127.616
129.556
132.194
138.286
143.803
OH
NHTs
Et
CF3
(S)-7b
ppm (t1)

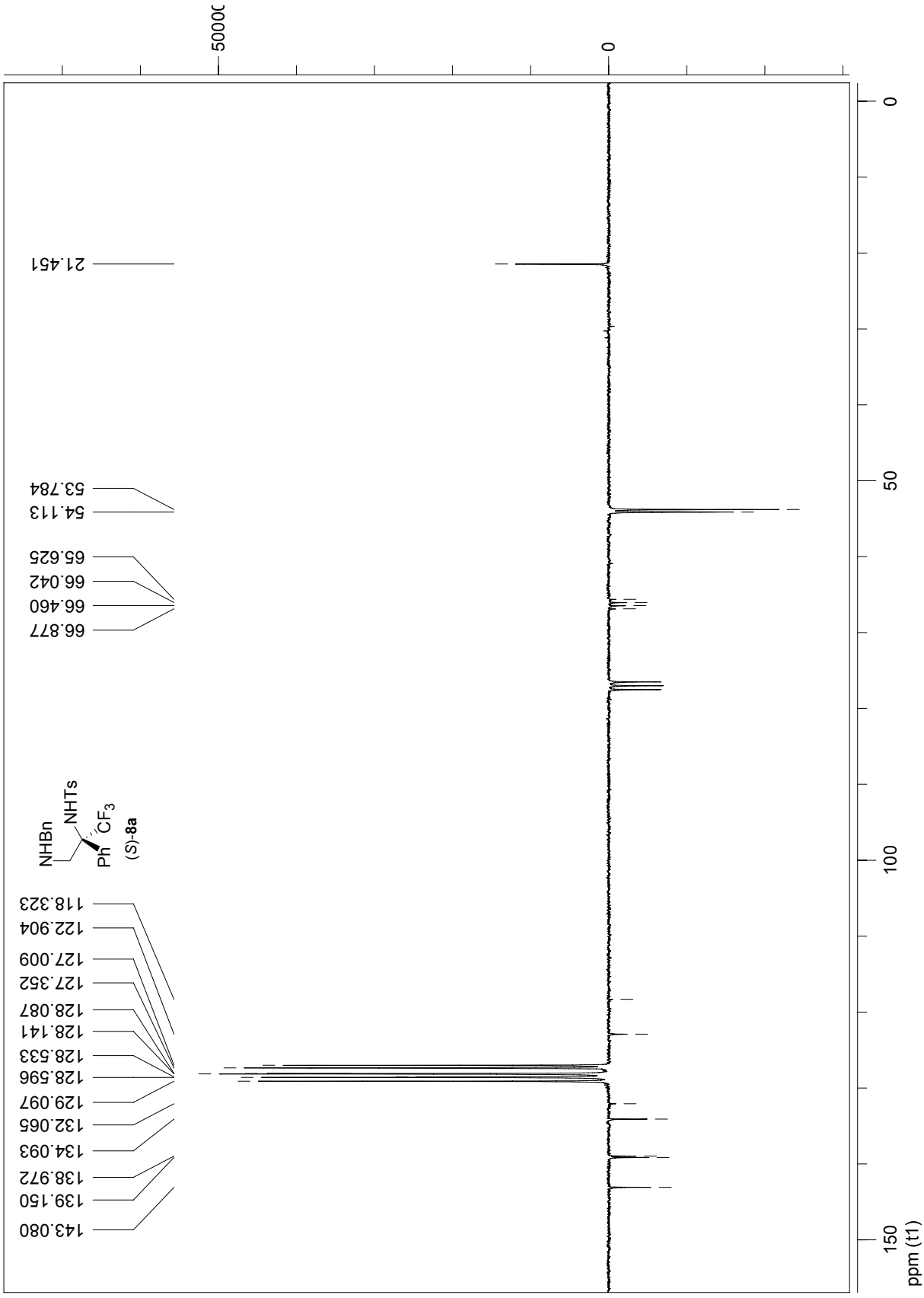

2000
1500
1000
500
0
-68.721
-50.0
-55.0
-60.0
-65.0
-70.0
-75.0
-80.0
ppm (f1)
OH
NHBn
Ph
CF3
(S)-7c

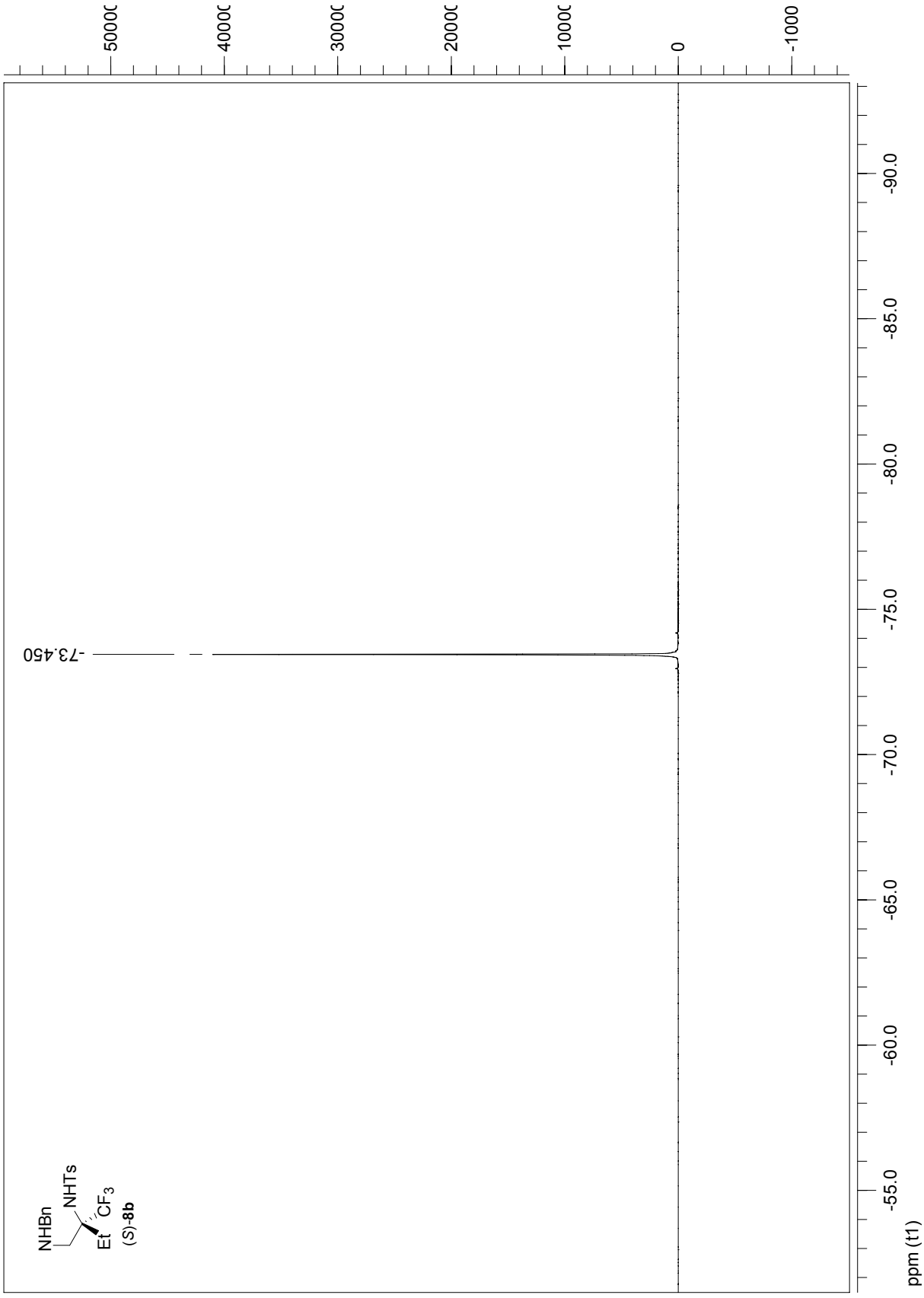

6000
5000
4000
3000
2000
1000
0
-1000
2.373
2.377
3.706
3.784
3.831
4.132
4.180
7.263
7.290
7.296
7.312
7.342
7.381
7.410
7.434
7.615
7.643
1.85
1.87
1.14
1.00
7.73
1.96
OH
NHBn
Ph
CF3
(S)-7c
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
ppm (t1)

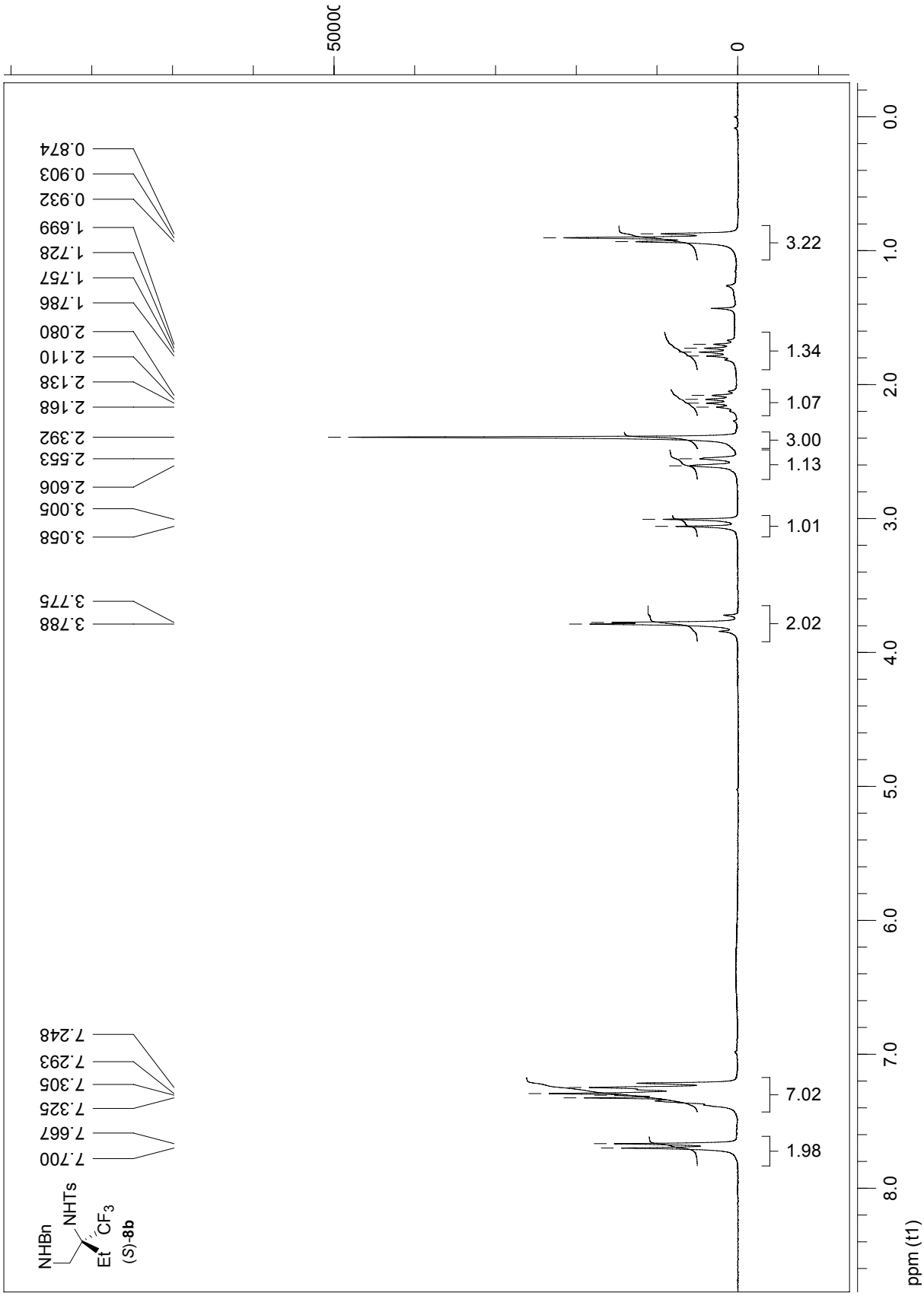

OH
NHBn
Ph
CF3
(S)-7c
139.840
134.498
133.715
129.091
128.674
128.517
127.923
127.464
127.231
124.469
119.847
67.799
67.428
67.055
66.683
65.565
46.682
ppm (t1)

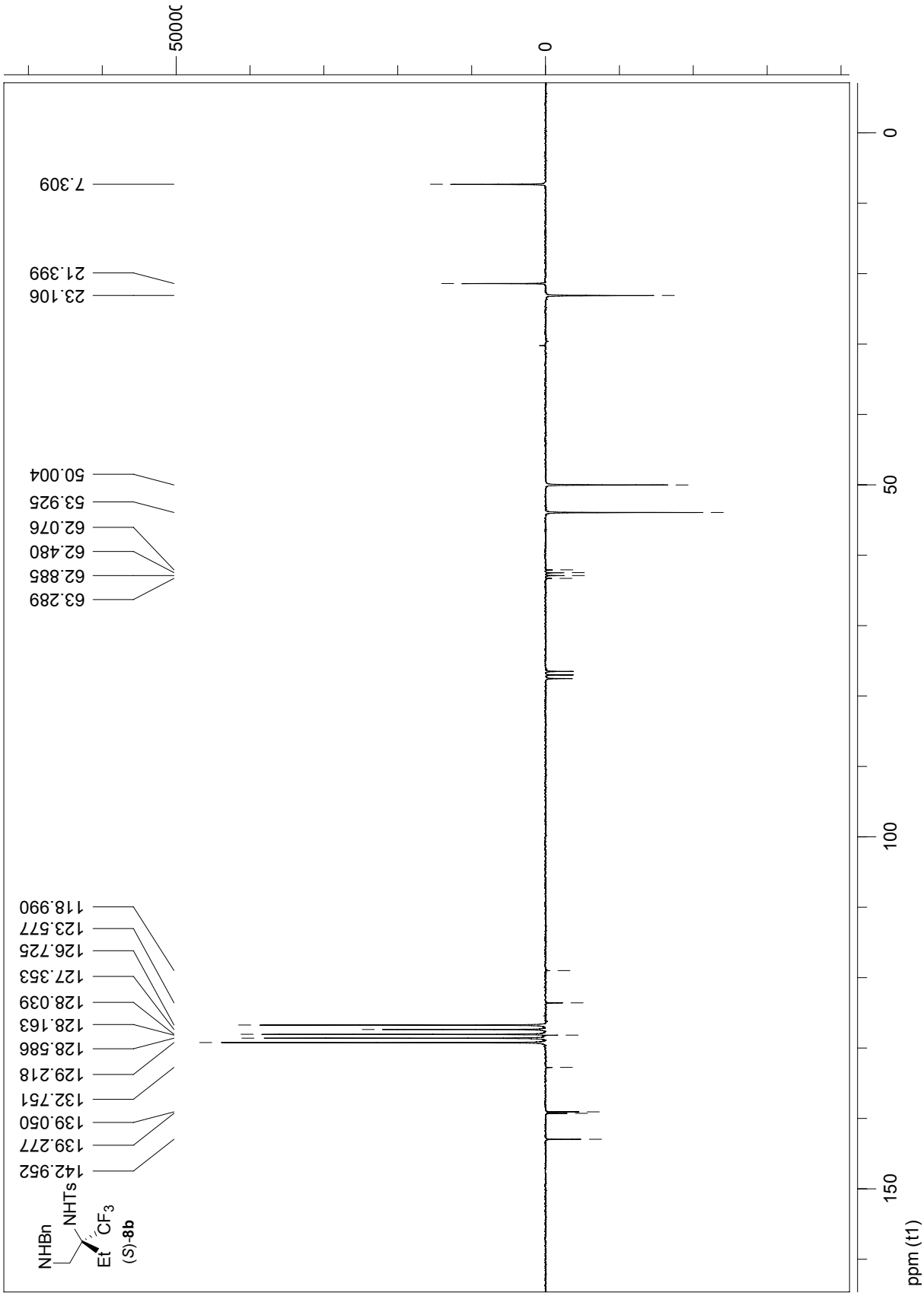

-69.280
NHBn
NHTs
Ph
CF3
(S)-8a
ppm (t1)

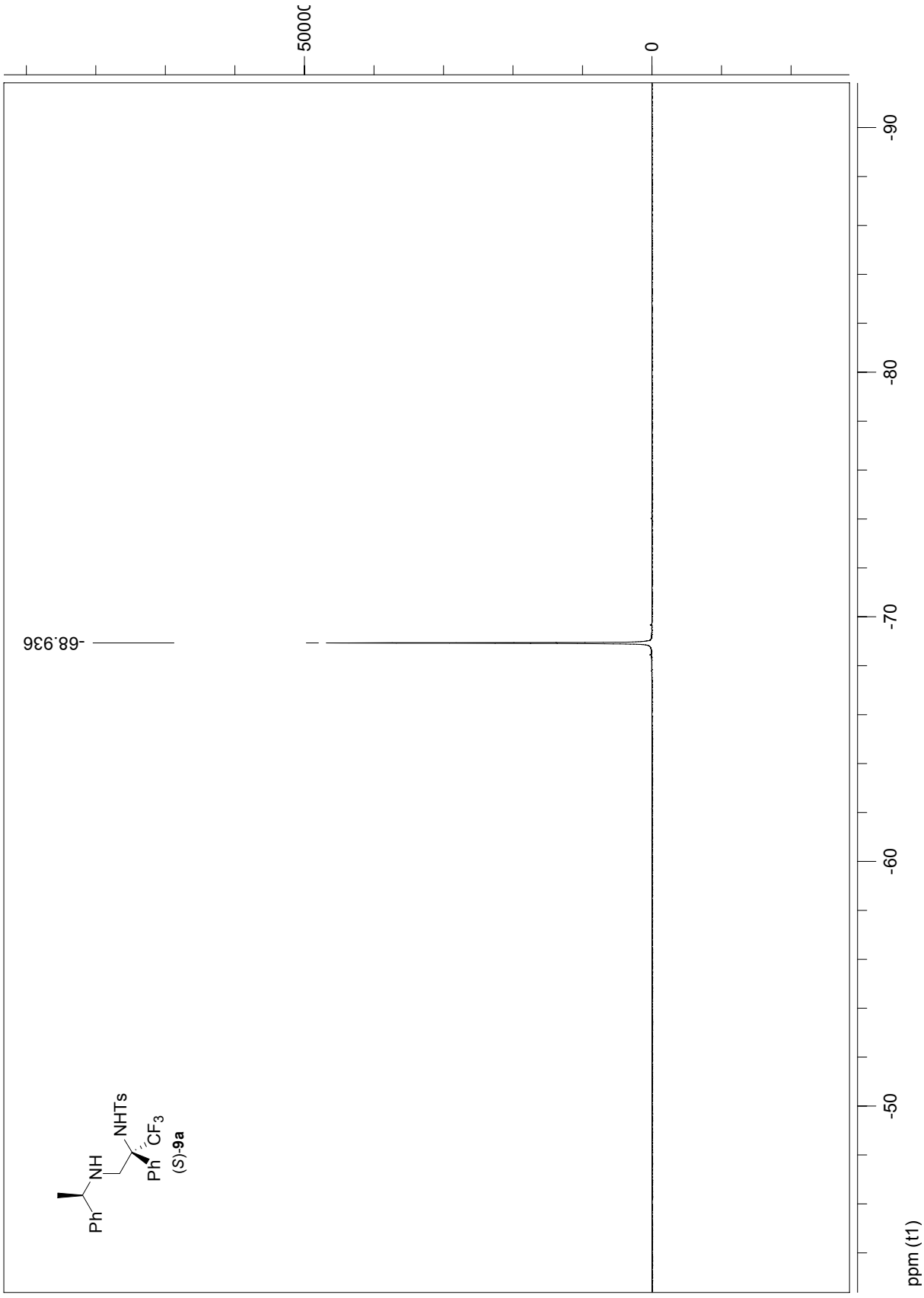

10000
5000
0
2.394
3.002
3.055
3.316
3.369
3.783
7.167
7.199
7.269
7.282
7.318
7.344
7.377
7.405
7.522
7.555
3.00
0.95
0.93
1.93
11.99
1.90
NHBn
NHTs
Ph
CF3
(S)-8a
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
ppm (t1)

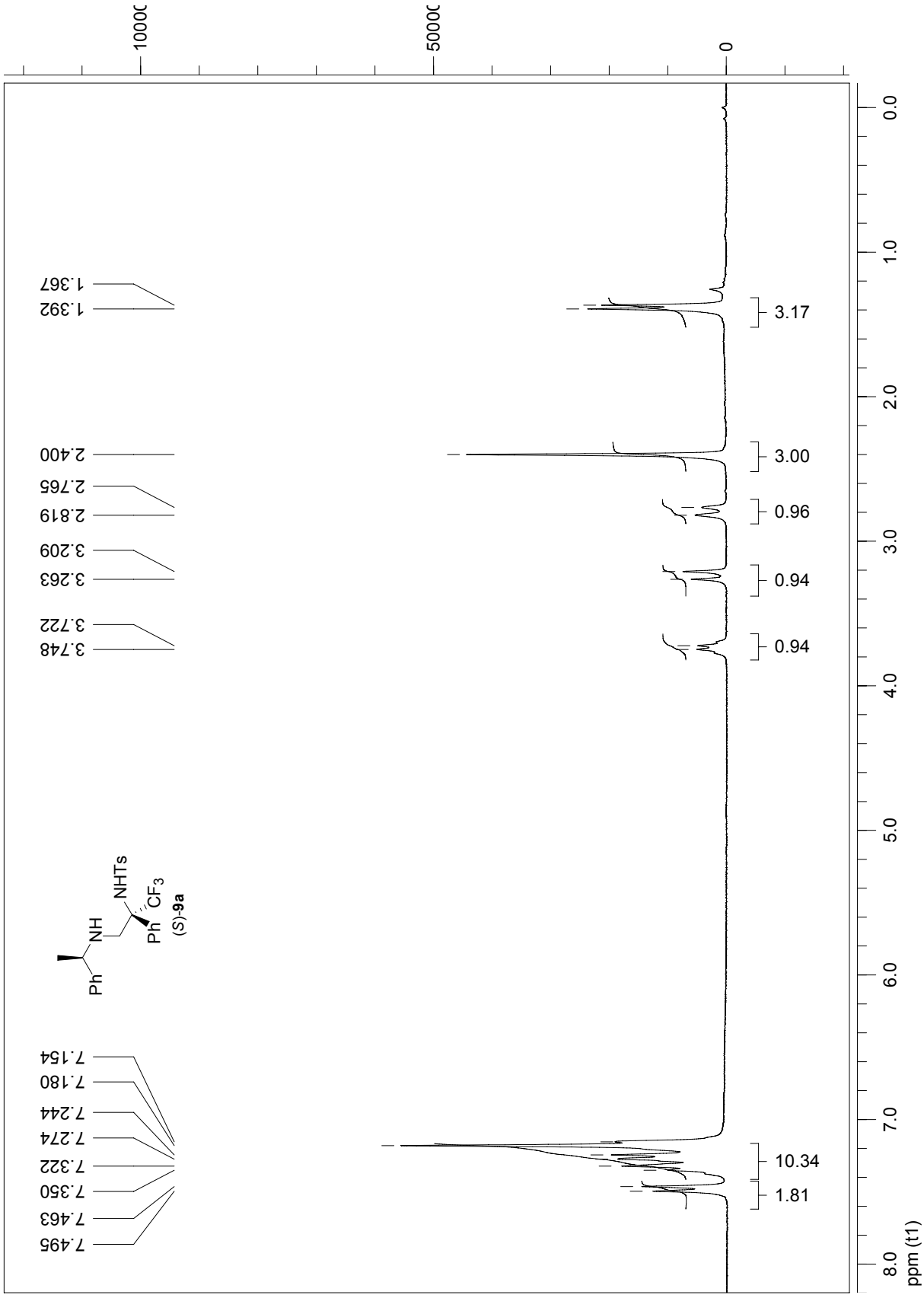

5000
0
21.451
53.784
54.113
65.625
66.042
66.460
66.877
NHBn
NHTs
Ph
CF3
(S)-8a
118.323
122.904
127.009
127.352
128.087
128.141
128.533
128.596
129.097
132.065
134.093
138.972
139.150
143.080
0
50
100
150
ppm (t1)

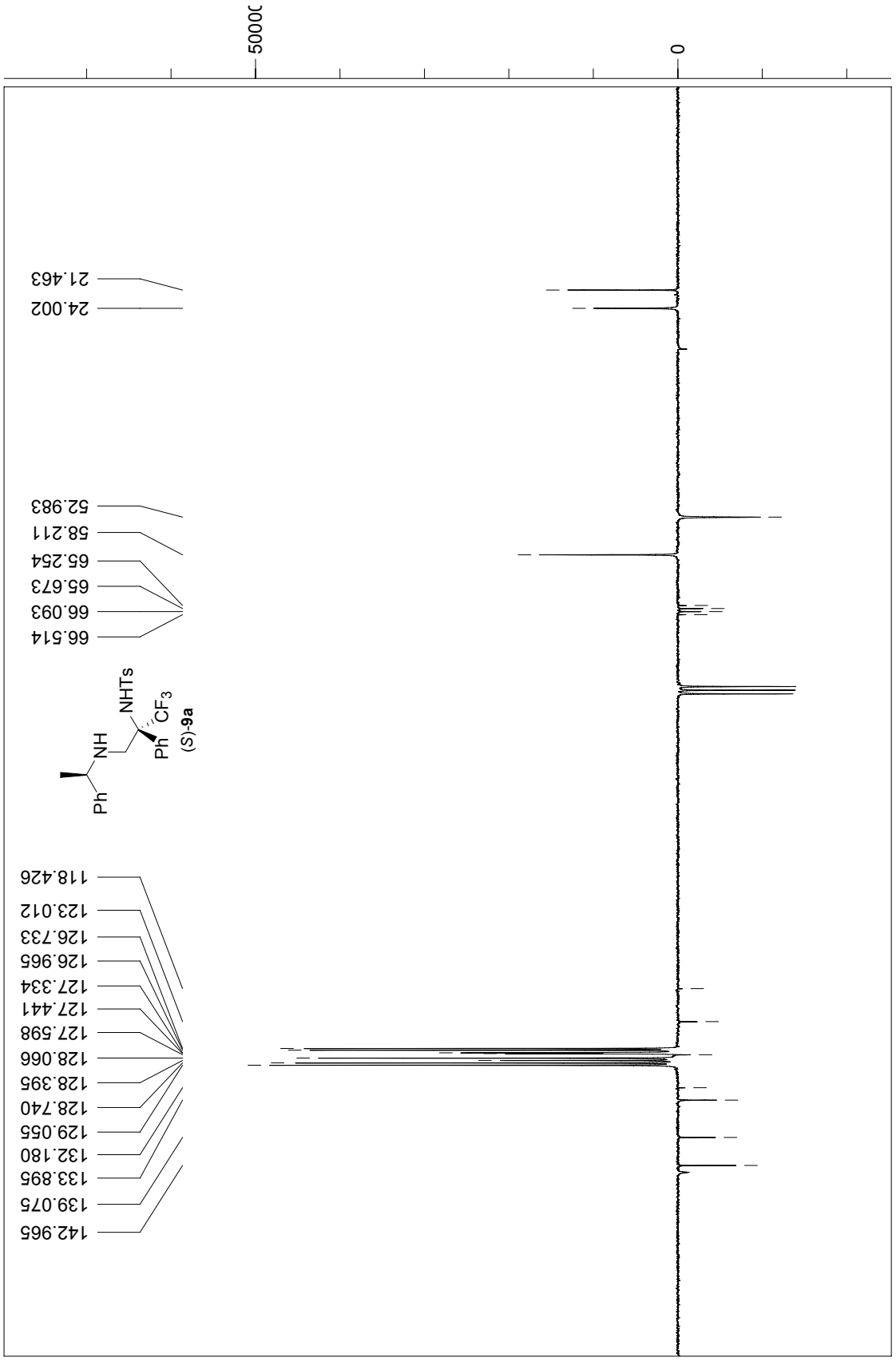

-73.450
NHBn
NHTs
Et
CF3
(S)-8b
ppm (t1)

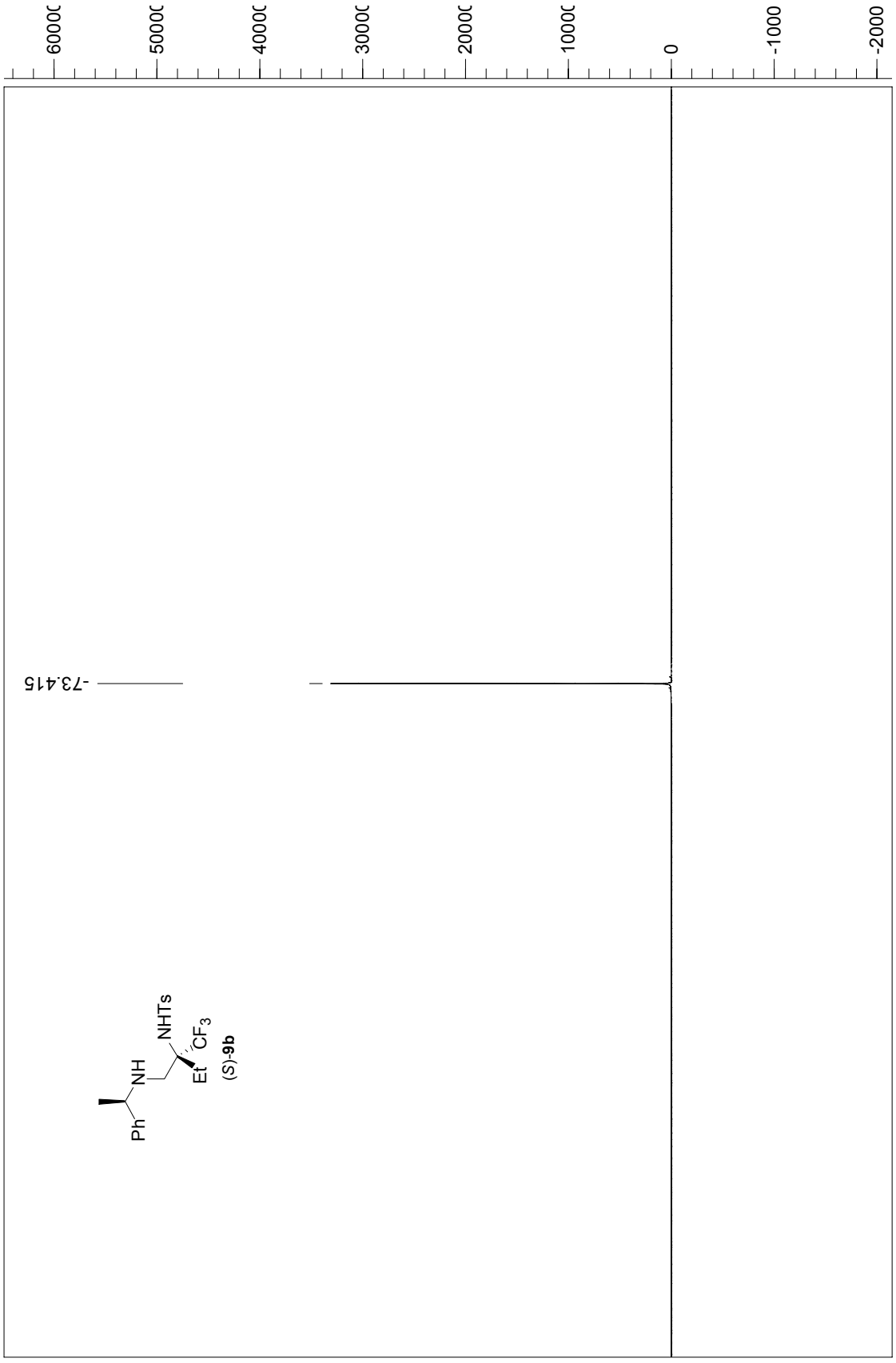

NHBn
NHTs
Et
CF3
(S)-8b
0.874
0.903
0.932
1.699
1.728
1.757
1.786
2.080
2.110
2.138
2.168
2.392
2.553
2.606
3.005
3.058
3.775
3.788
7.248
7.293
7.305
7.325
7.667
7.700
3.22
1.34
1.07
3.00
1.13
1.01
2.02
7.02
1.98
ppm (t1)

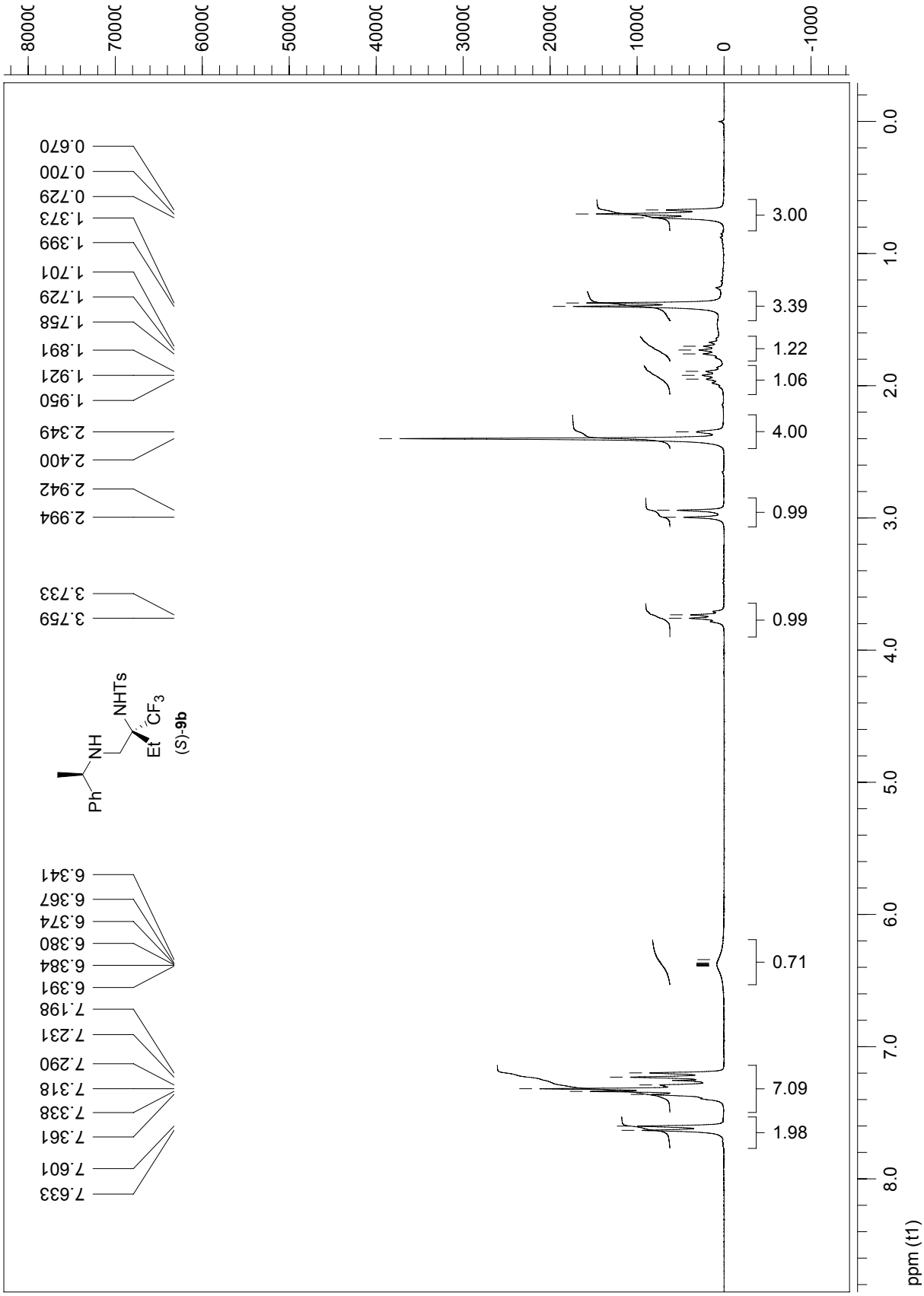

7.309
21.399
23.106
50.004
53.925
62.076
62.480
62.885
63.289
118.990
123.577
126.725
127.353
128.039
128.163
128.586
129.218
132.751
139.050
139.277
142.952
NHBn
NHTs
Et
CF3
(S)-8b
ppm (t1)

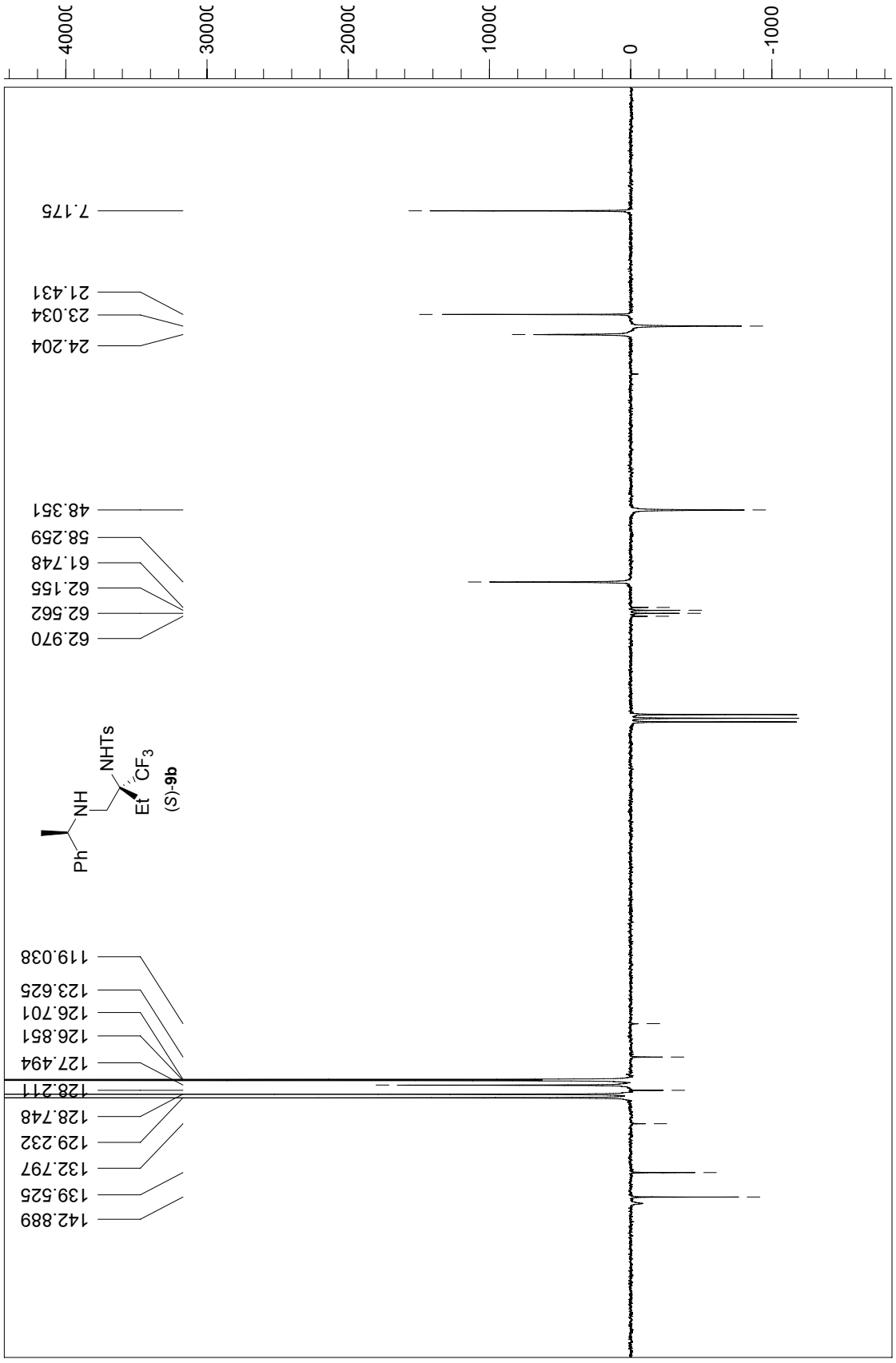

5000
0
-68.936
-90
-80
-70
-60
-50
ppm (t1)
Ph
NH
NHTs
Ph
CF3
(S)-9a

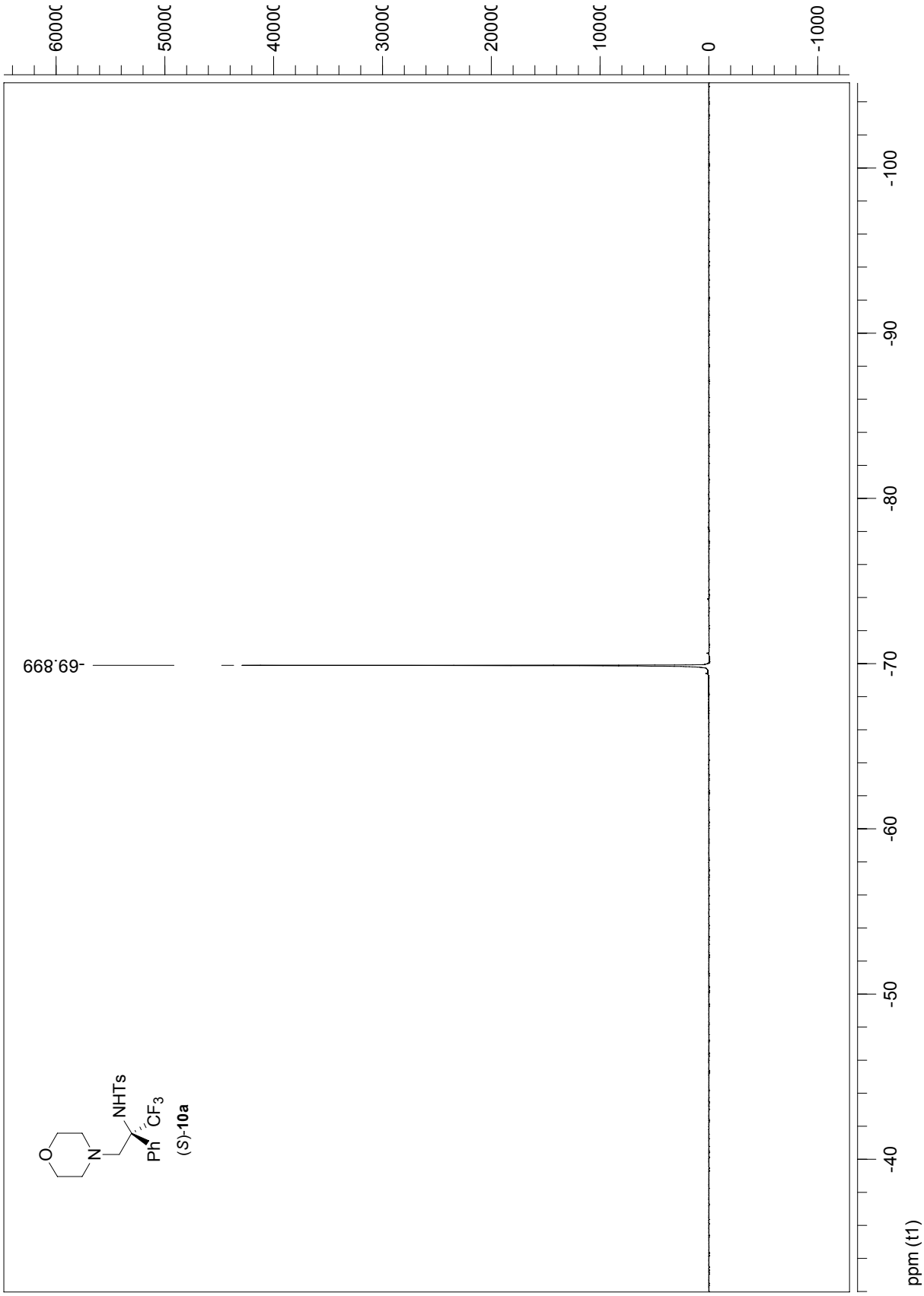

10000
5000
0
1.367
1.392
2.400
2.765
2.819
3.209
3.263
3.722
3.748
7.154
7.180
7.244
7.274
7.322
7.350
7.463
7.495
3.17
3.00
0.96
0.94
0.94
10.34
1.81
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
ppm (t1)
Ph
NH
NHTs
Ph
CF3
(S)-9a

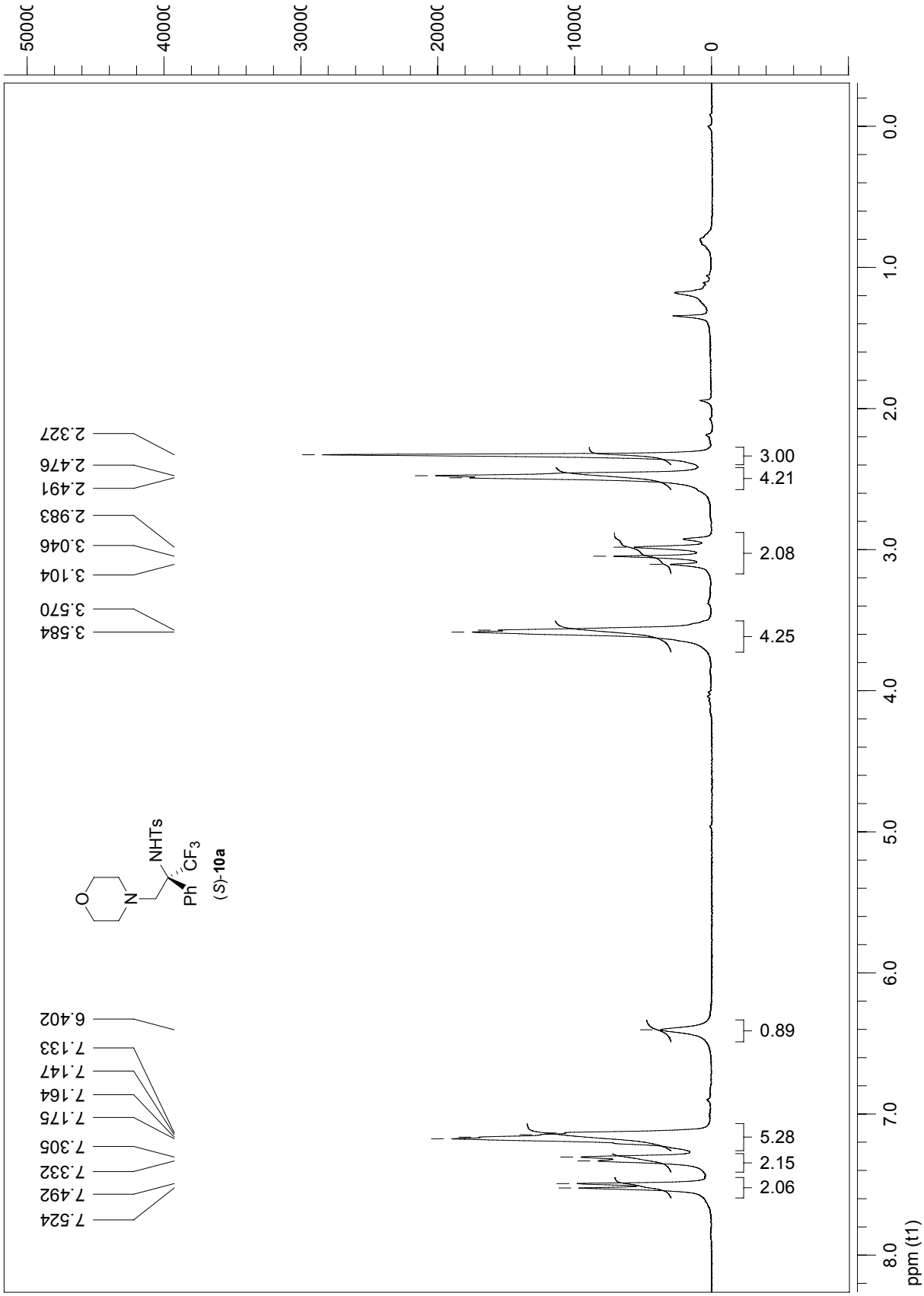

21.463
24.002
52.983
58.211
65.254
65.673
66.093
66.514
118.426
123.012
126.733
126.965
127.334
127.441
127.598
128.066
128.395
128.740
129.055
132.180
133.895
139.075
142.965
NHTs
NH
Ph
Ph
CF3
(S)-9a
5000
0
0
50
100
150
ppm (t1)

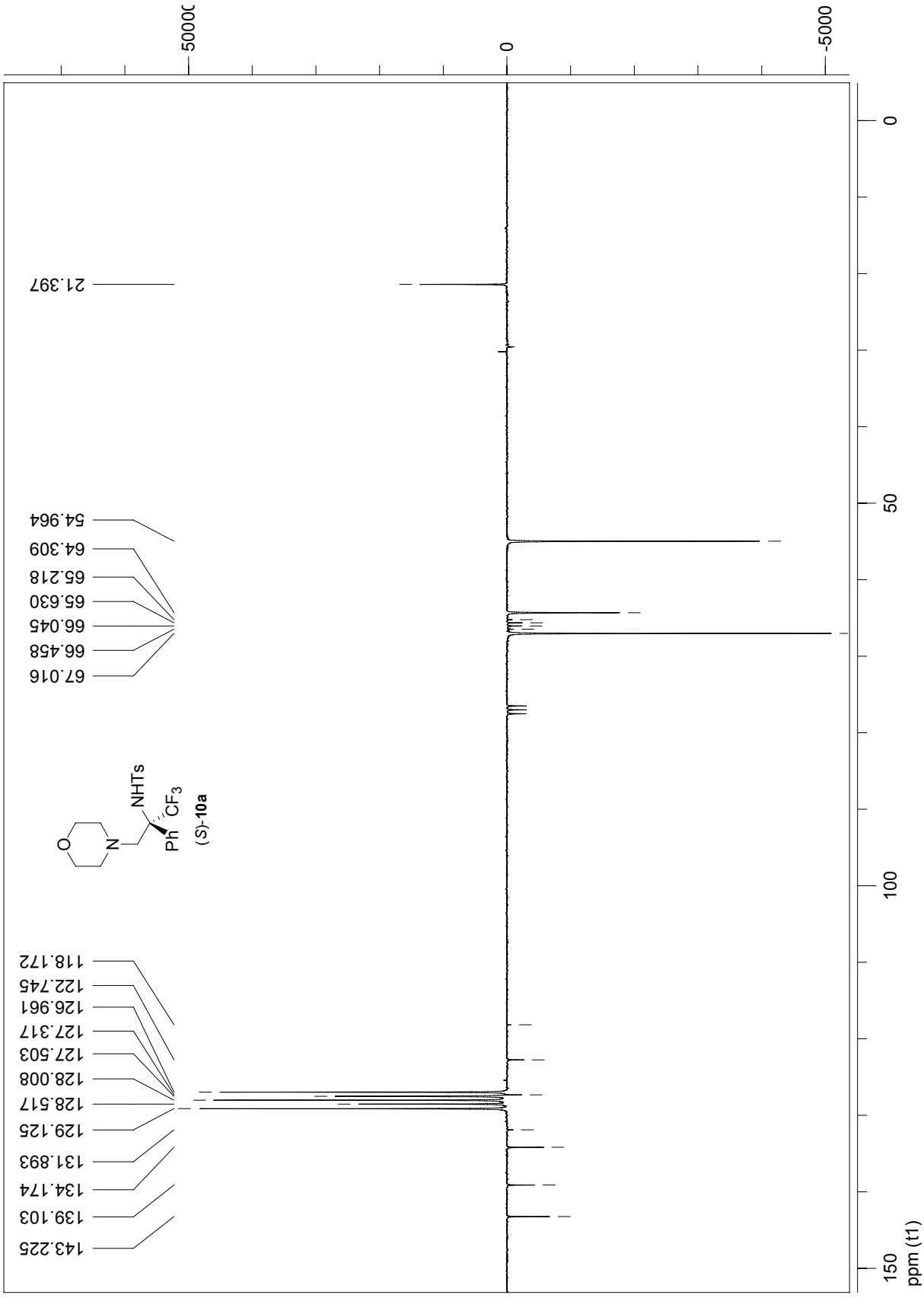

-73.415
Ph
NH
NHTs
Et
CF3
(S)-9b
ppm (t1)

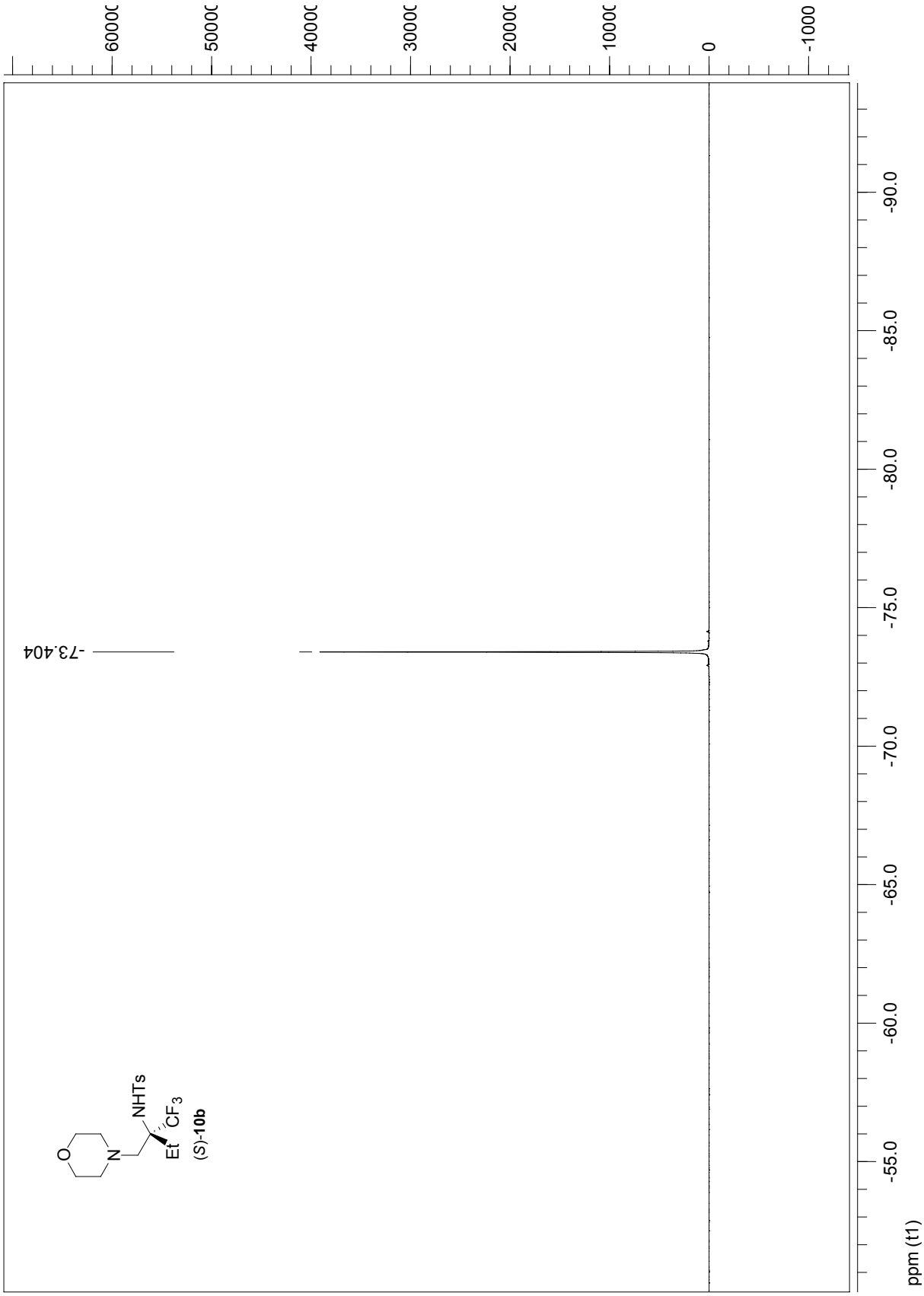

0.670
0.700
0.729
1.373
1.399
1.701
1.729
1.758
1.891
1.921
1.950
2.349
2.400
2.942
2.994
3.733
3.759
6.341
6.367
6.374
6.380
6.384
6.391
7.198
7.231
7.290
7.318
7.338
7.361
7.601
7.633
3.00
3.39
1.22
1.06
4.00
0.99
0.99
0.71
7.09
1.98
NHTs
CF3
Et
NH
Ph
(S)-9b
ppm (t1)

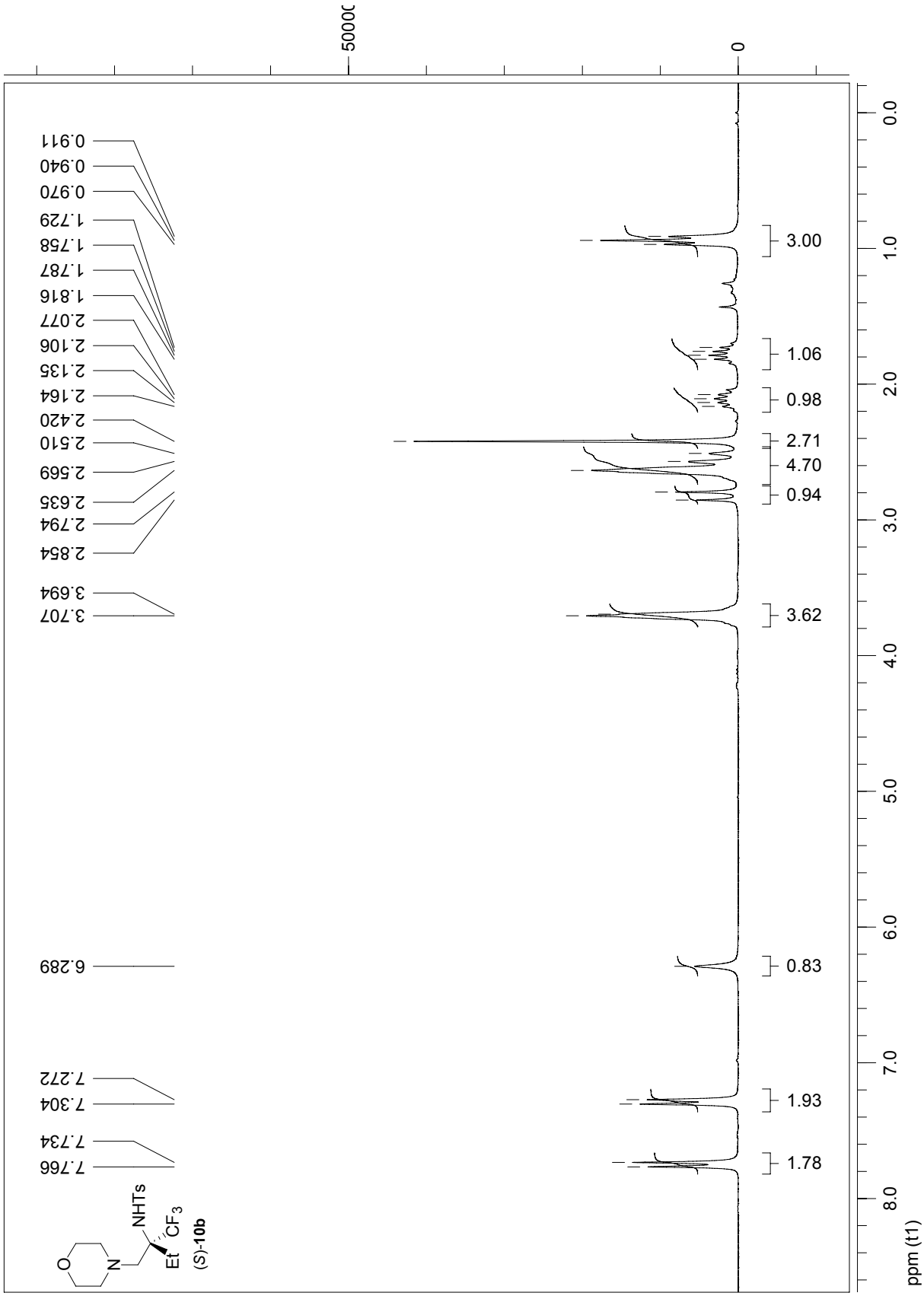

7.175
21.431
23.034
24.204
48.351
58.259
61.748
62.155
62.562
62.970
119.038
123.625
126.701
126.851
127.494
128.211
128.748
129.232
132.797
139.525
142.889
Ph
NH
Et
CF3
NHTs
(S)-9b
ppm (t1)

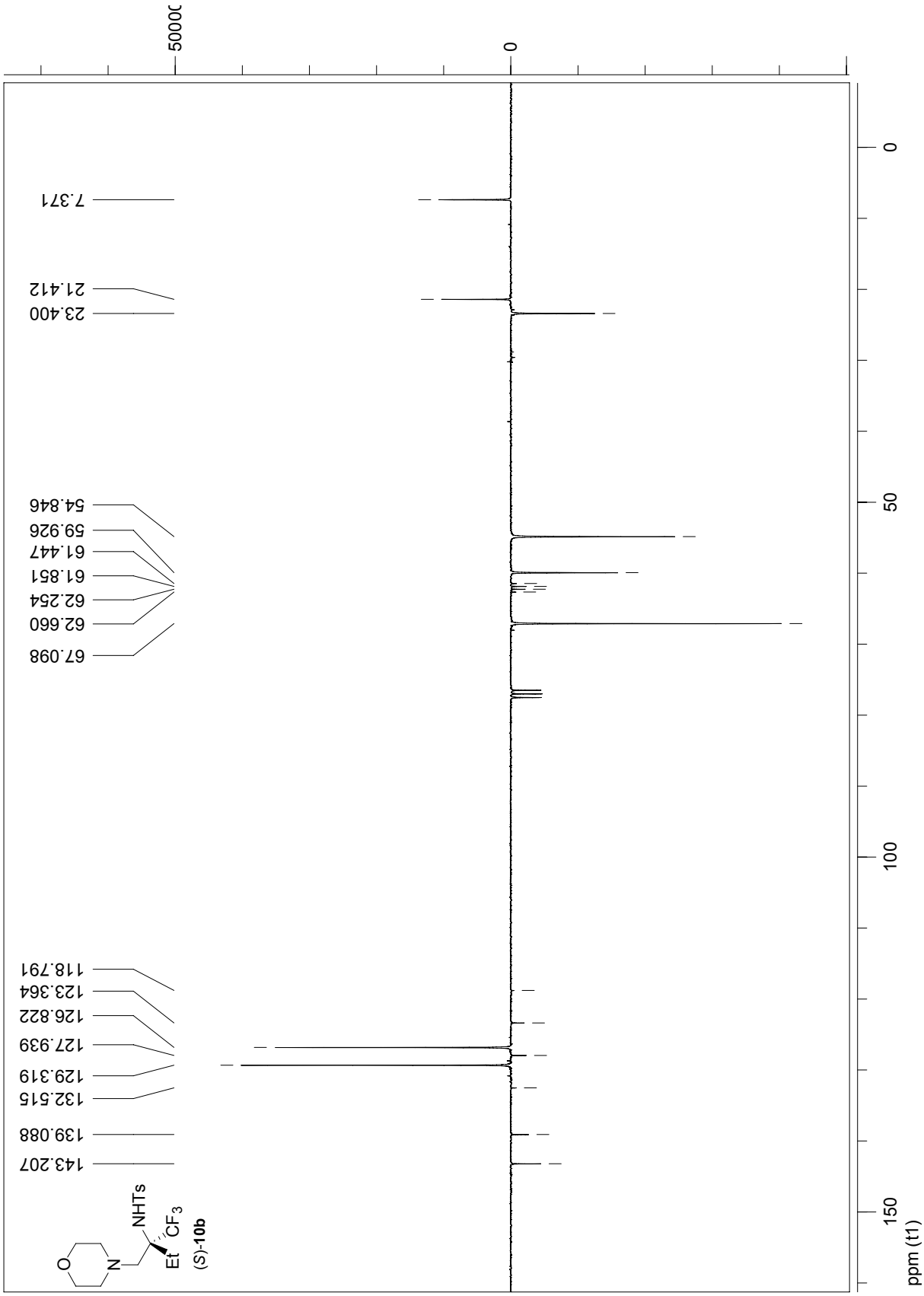

60000
50000
40000
30000
20000
10000
0
-10000
-69.899
-100
-90
-80
-70
-60
-50
-40
ppm (t1)
NHTs
Ph
CF3
(S)-10a

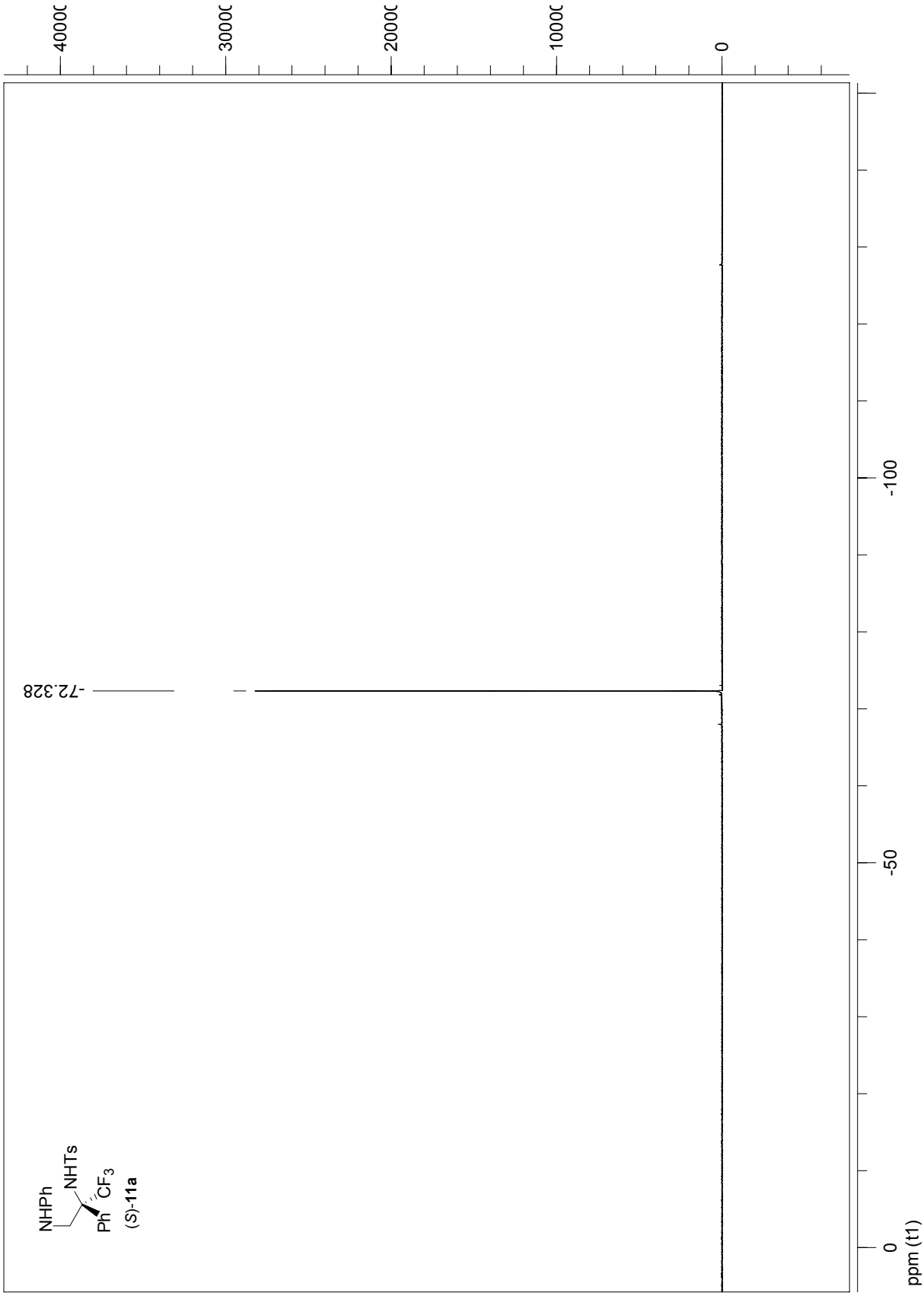

5000
4000
3000
2000
1000
0
2.327
2.476
2.491
2.983
3.046
3.104
3.570
3.584
6.402
7.133
7.147
7.164
7.175
7.305
7.332
7.492
7.524
3.00
4.21
2.08
4.25
0.89
5.28
2.15
2.06
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
ppm (t1)
O
N
NHTs
Ph
CF3
(S)-10a

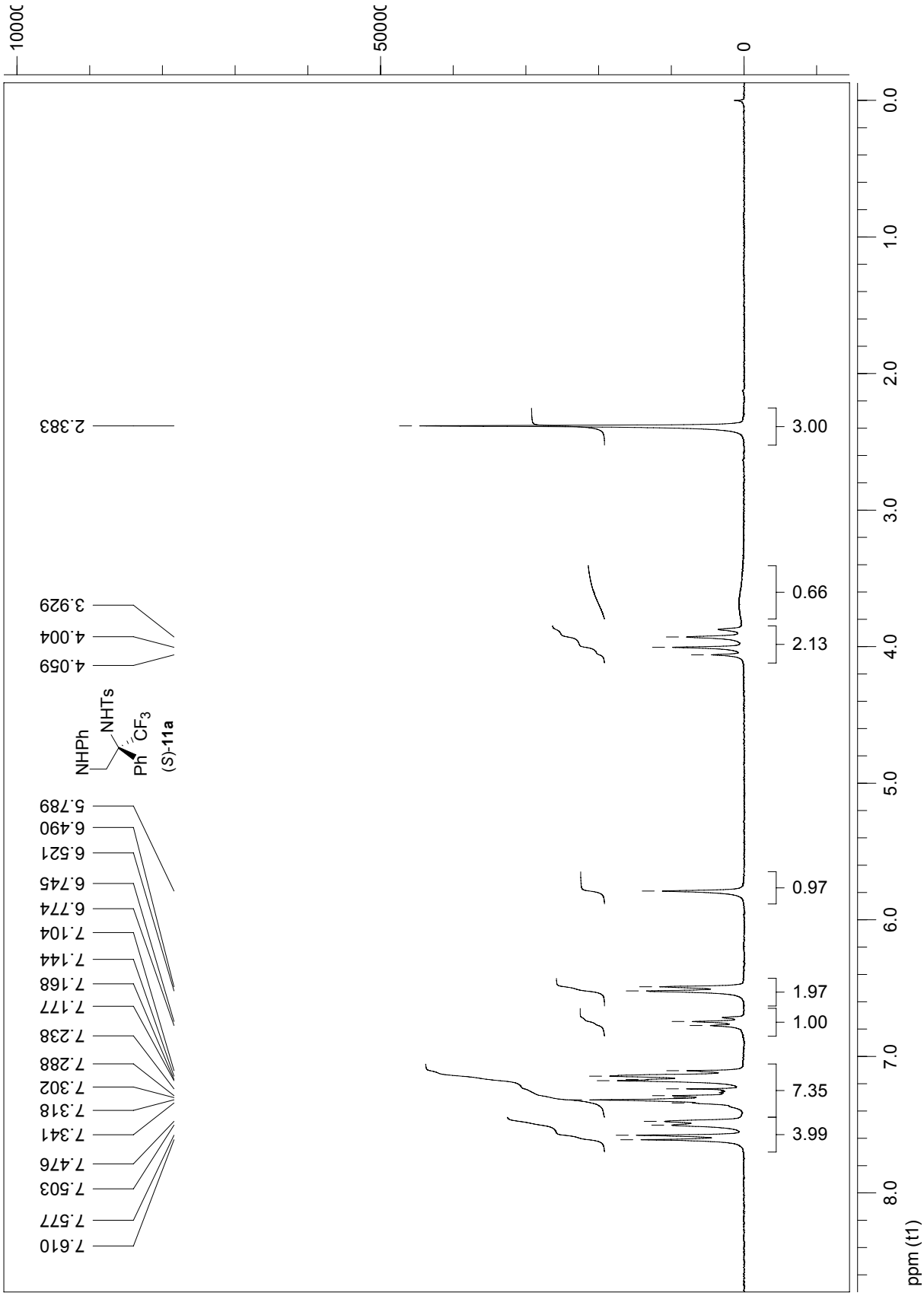

21.397
54.964
64.309
65.218
65.630
66.045
66.458
67.016
118.172
122.745
126.961
127.317
127.503
128.008
128.517
129.125
131.893
134.174
139.103
143.225
NHTs
Ph
CF3
(S)-10a
O
N
ppm (t1)

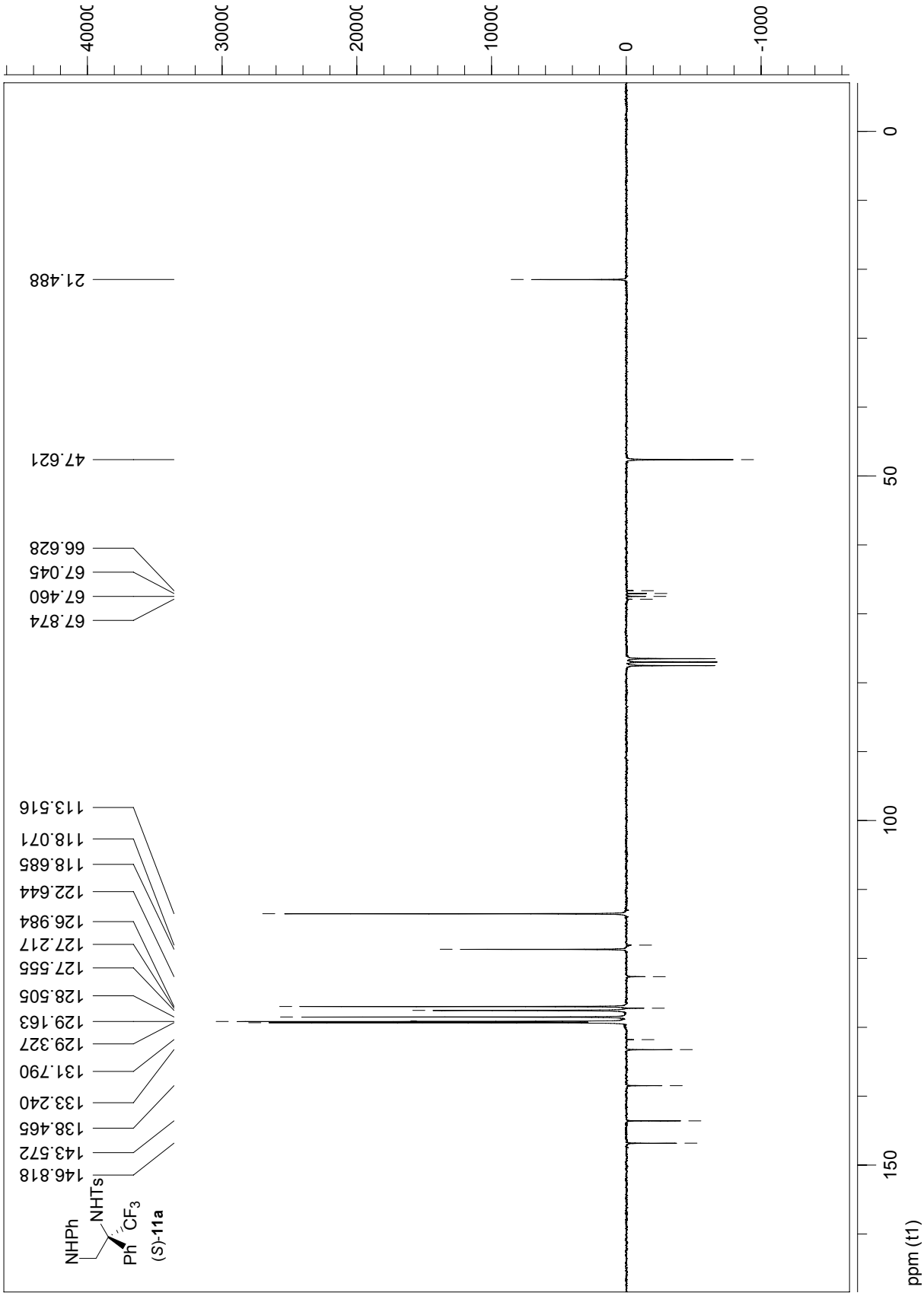

-73.404
NHTs
Et
CF3
(S)-10b
ppm (t1)

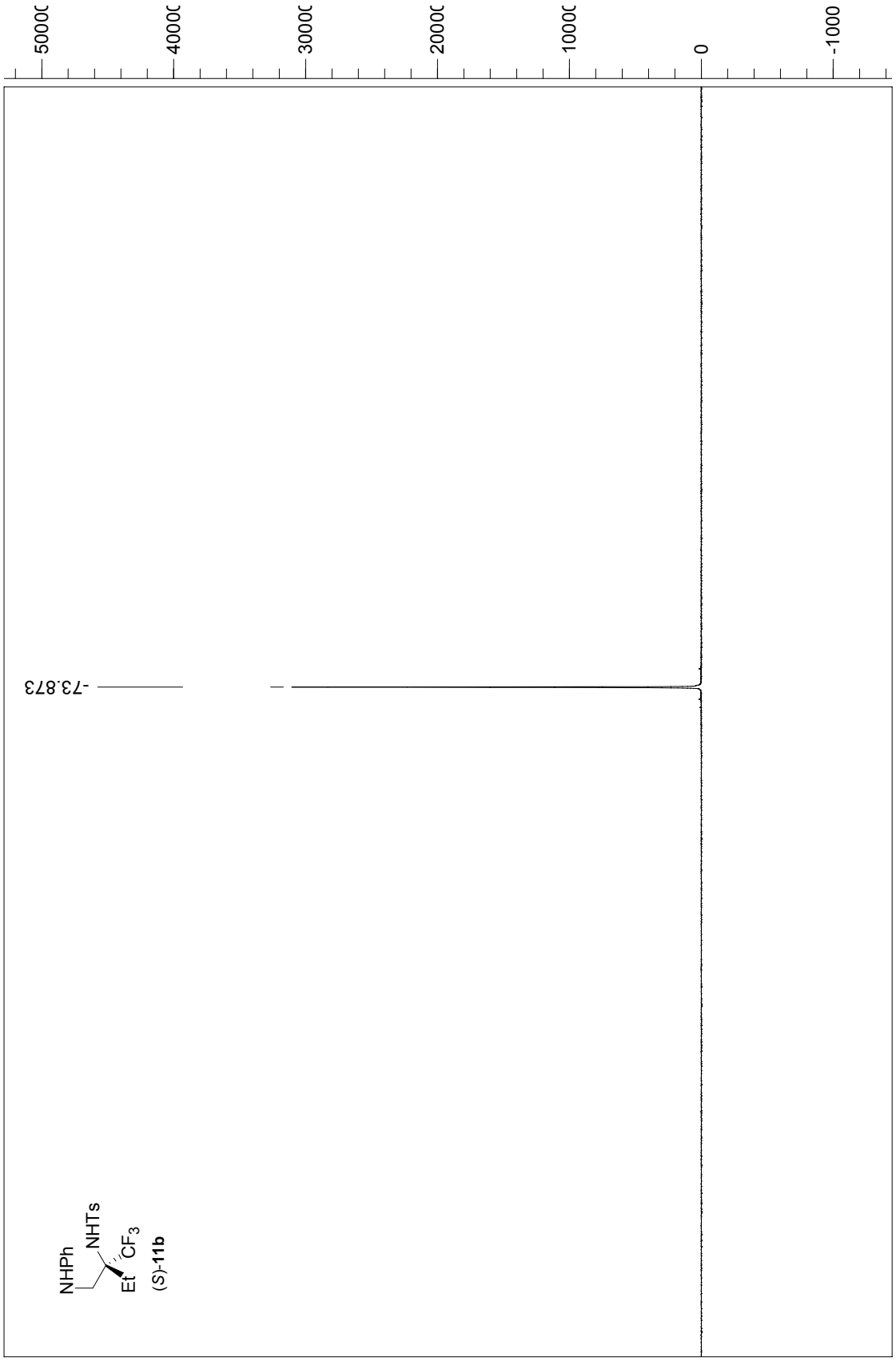

5000
0
0.911
0.940
0.970
1.729
1.758
1.787
1.816
2.077
2.106
2.135
2.164
2.420
2.510
2.569
2.635
2.794
2.854
3.694
3.707
6.289
7.272
7.304
7.734
7.766
3.00
1.06
0.98
2.71
4.70
0.94
3.62
0.83
1.93
1.78
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
ppm (t1)
NHTs
Et
CF3
O
N
(S)-10b

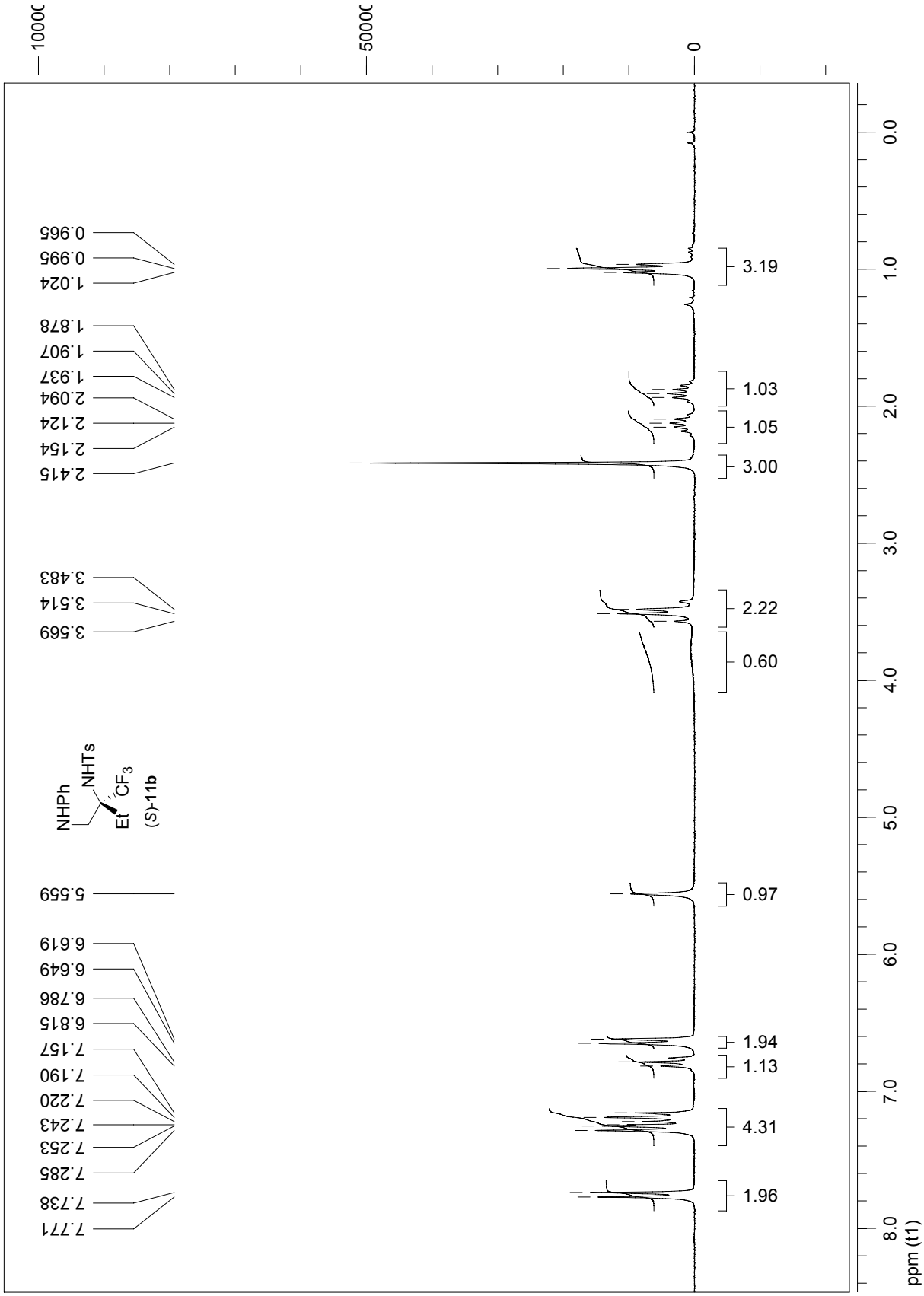

7.371
21.412
23.400
54.846
59.926
61.447
61.851
62.254
62.660
67.098
118.791
123.364
126.822
127.939
129.319
132.515
139.088
143.207
ppm (t1)
(S)-10b

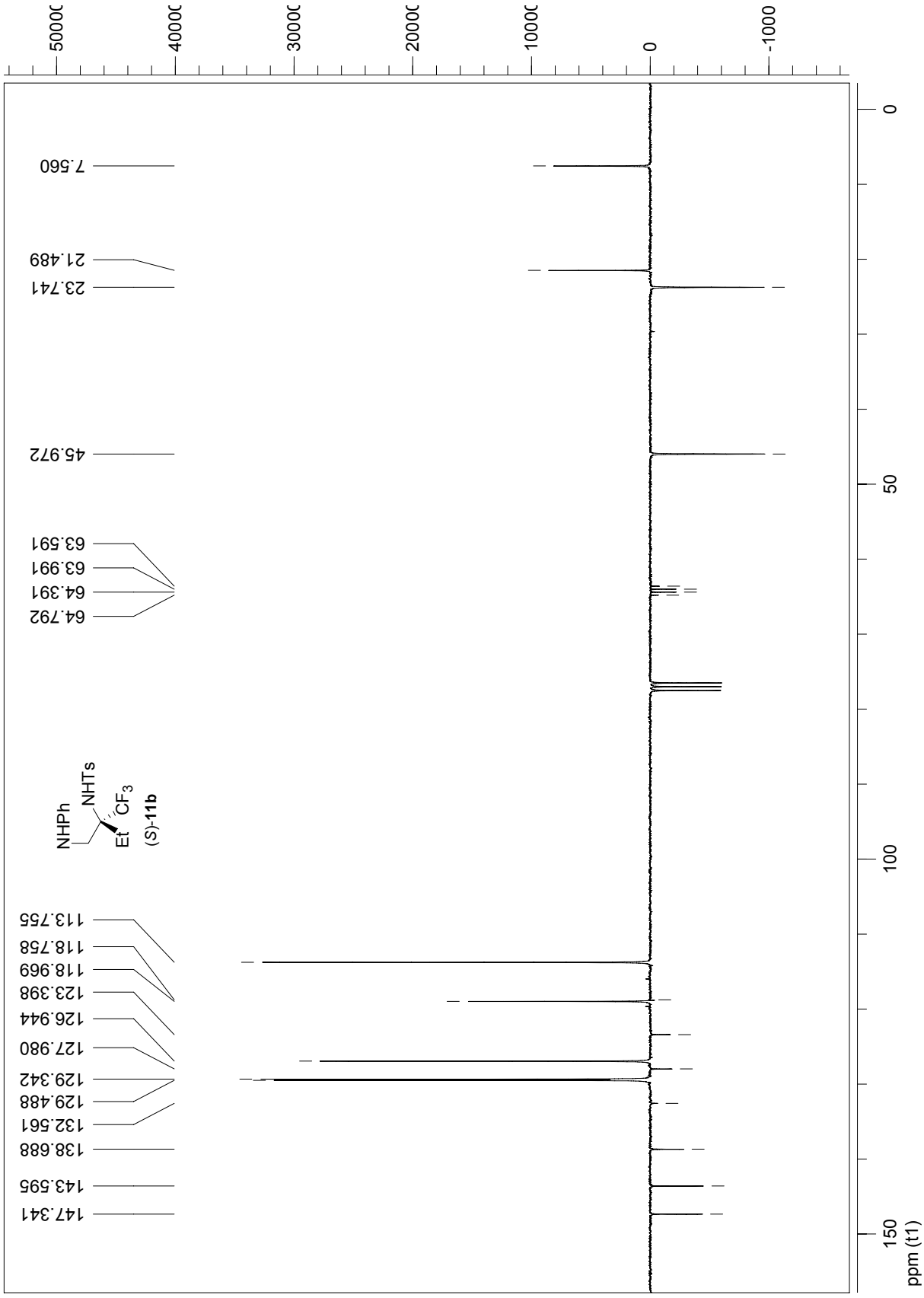

40000
30000
20000
10000
0
-72.328
-100
-50
0
ppm (t1)
NHPh
NHTs
Ph
CF3
(S)-11a

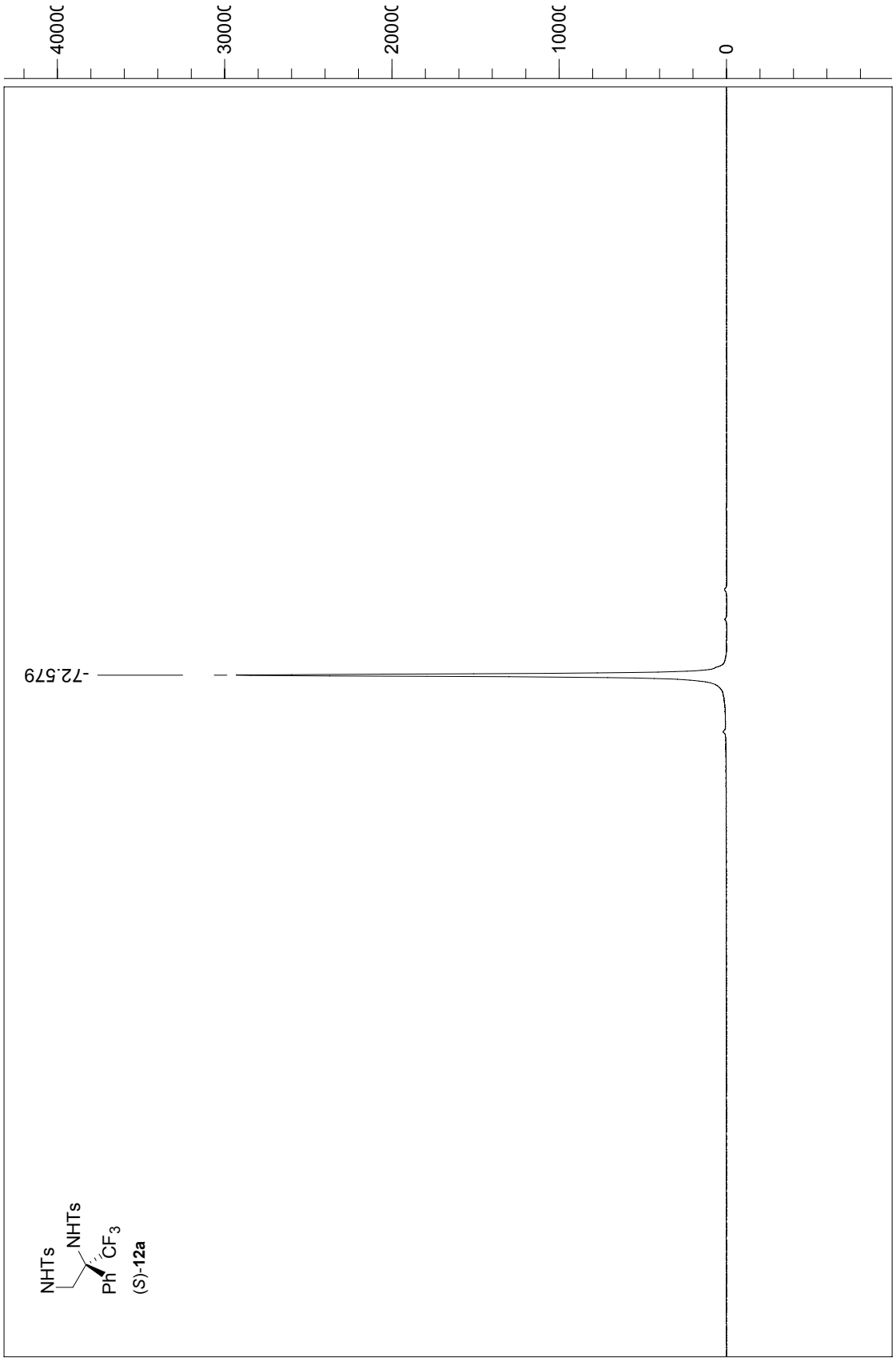

10000
5000
0
2.383
3.929
4.004
4.059
NHPh
NHTs
Ph
CF3
(S)-11a
5.789
6.490
6.521
6.745
6.774
7.104
7.144
7.168
7.177
7.238
7.288
7.302
7.318
7.341
7.476
7.503
7.577
7.610
3.00
0.66
2.13
0.97
1.97
1.00
7.35
3.99
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
ppm (t1)

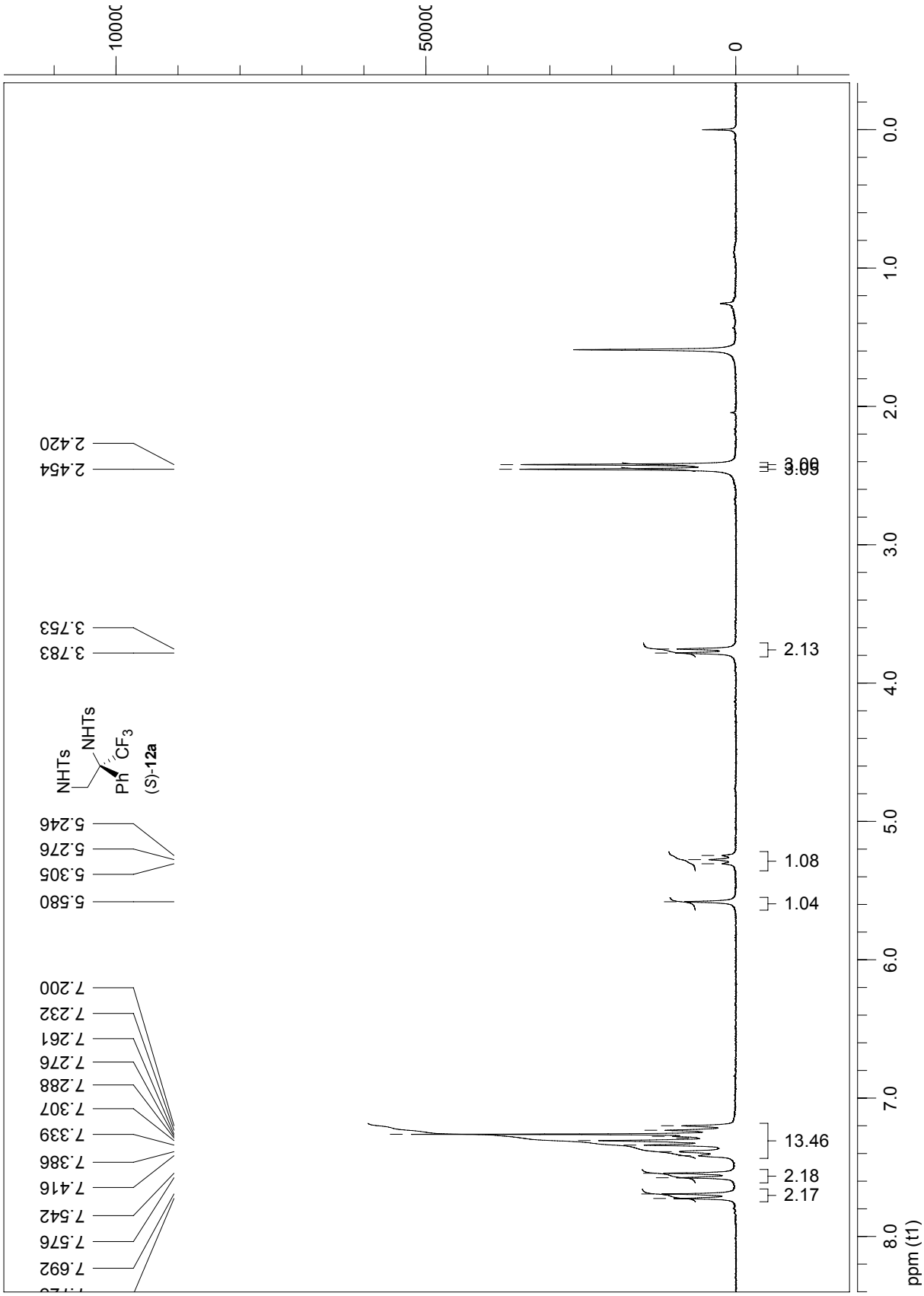

21.488
47.621
66.628
67.045
67.460
67.874
113.516
118.071
118.685
122.644
126.984
127.217
127.555
128.505
129.163
129.327
131.790
133.240
138.465
143.572
146.818
NHPh
NHTs
Ph
CF3
(S)-11a
ppm (t1)

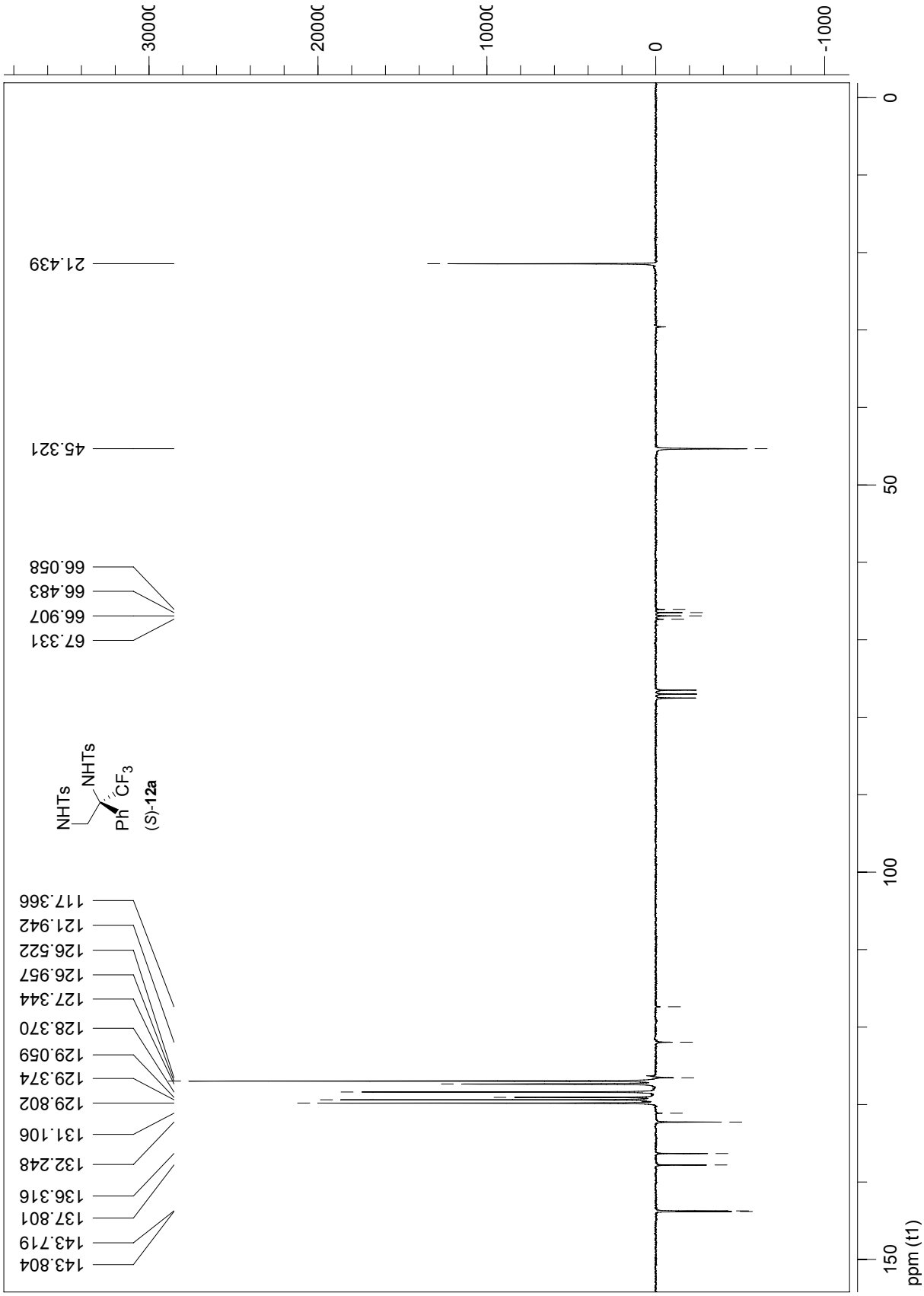

-73.873
NHPh
NHTs
Et
CF3
(S)-11b
ppm (t1)

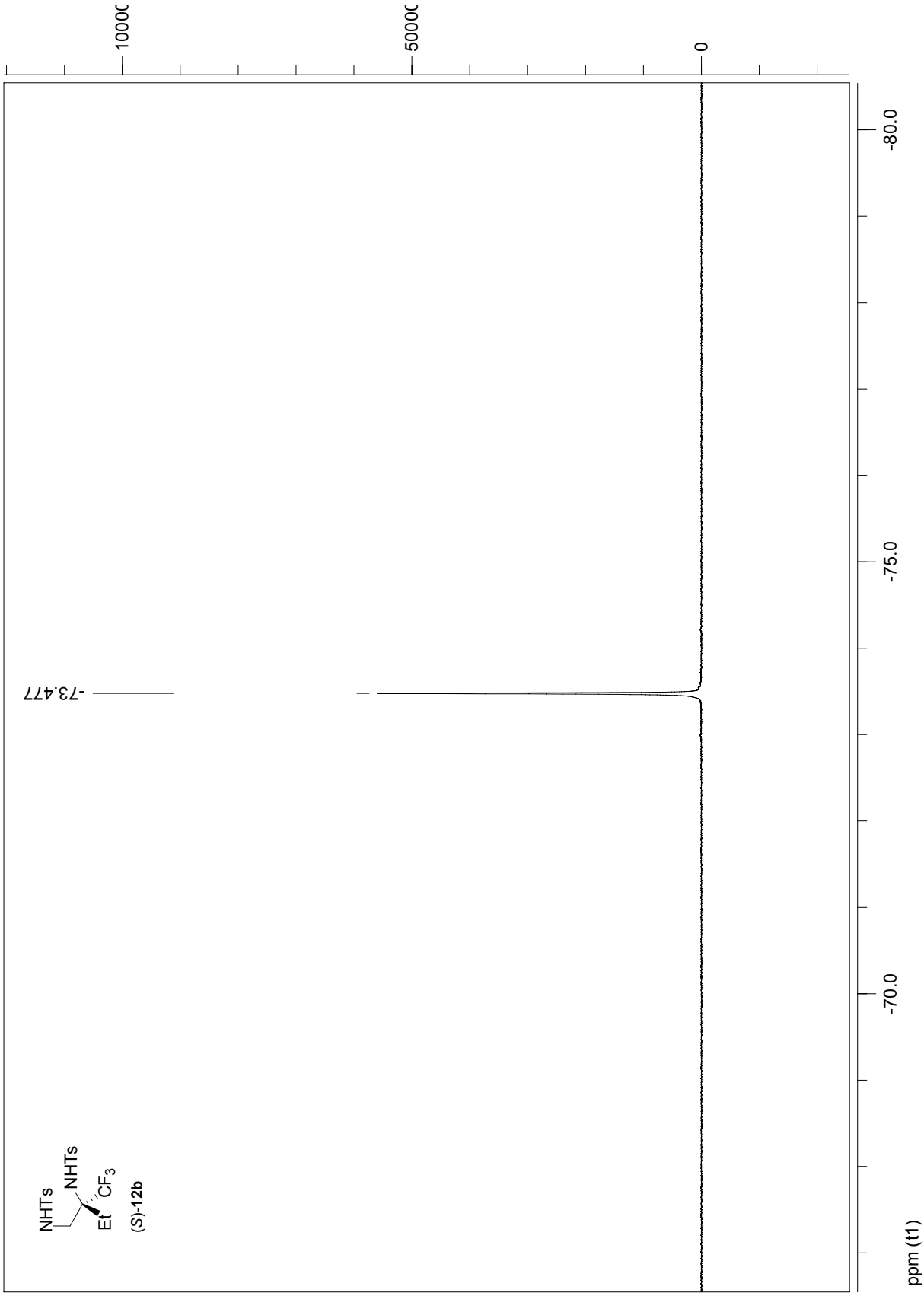

10000
5000
0
0.965
0.995
1.024
1.878
1.907
1.937
2.094
2.124
2.154
2.415
3.483
3.514
3.569
5.559
6.619
6.649
6.786
6.815
7.157
7.190
7.220
7.243
7.253
7.285
7.738
7.771
3.19
1.03
1.05
3.00
2.22
0.60
0.97
1.94
1.13
4.31
1.96
NHPh
NHTs
Et
CF3
(S)-11b
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
ppm (t1)

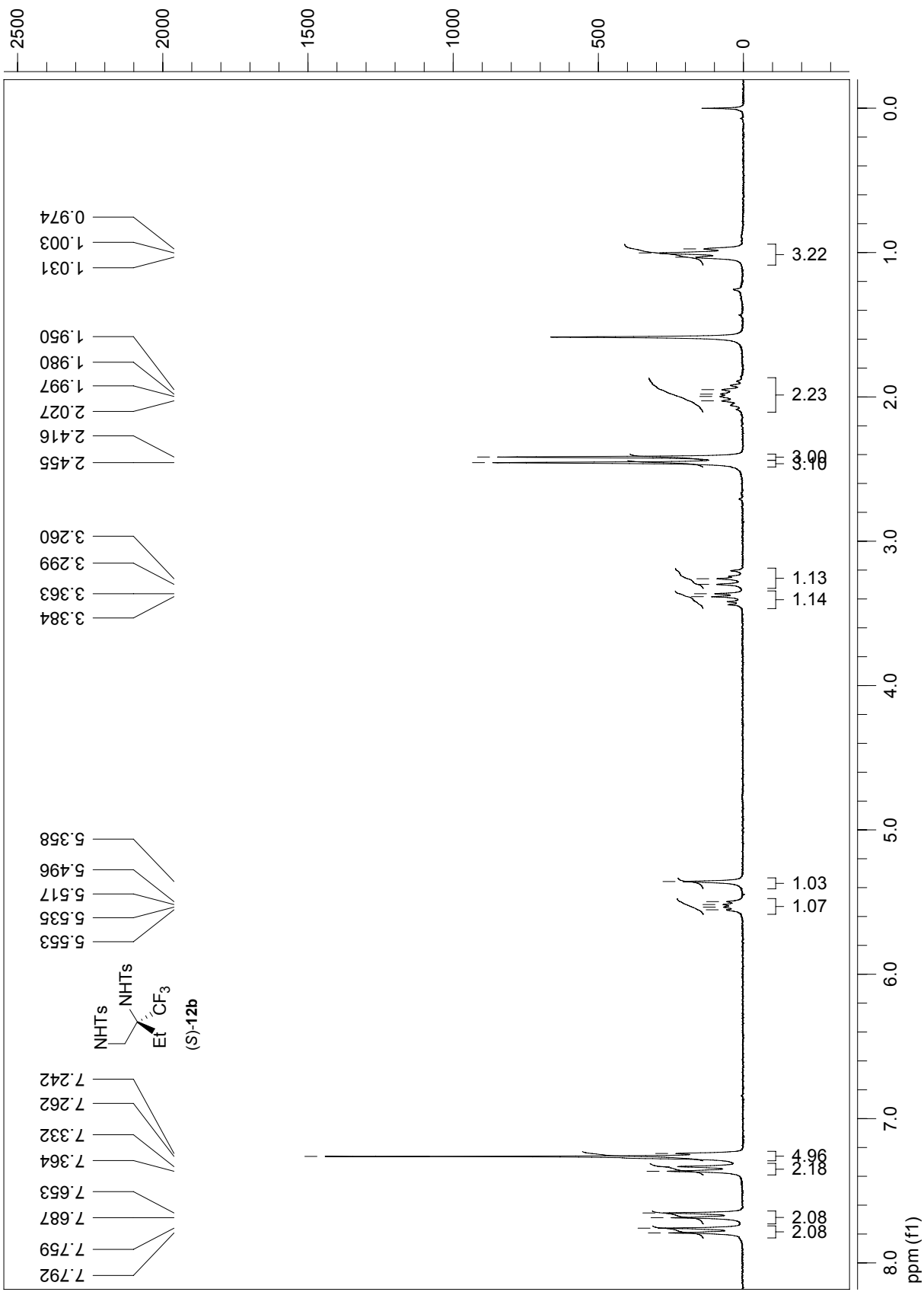

7.560
21.489
23.741
45.972
63.591
63.991
64.391
64.792
113.755
118.758
118.969
123.398
126.944
127.980
129.342
129.488
132.561
138.688
143.595
147.341
NHPh
NHTs
Et
CF3
(S)-11b
ppm (t1)

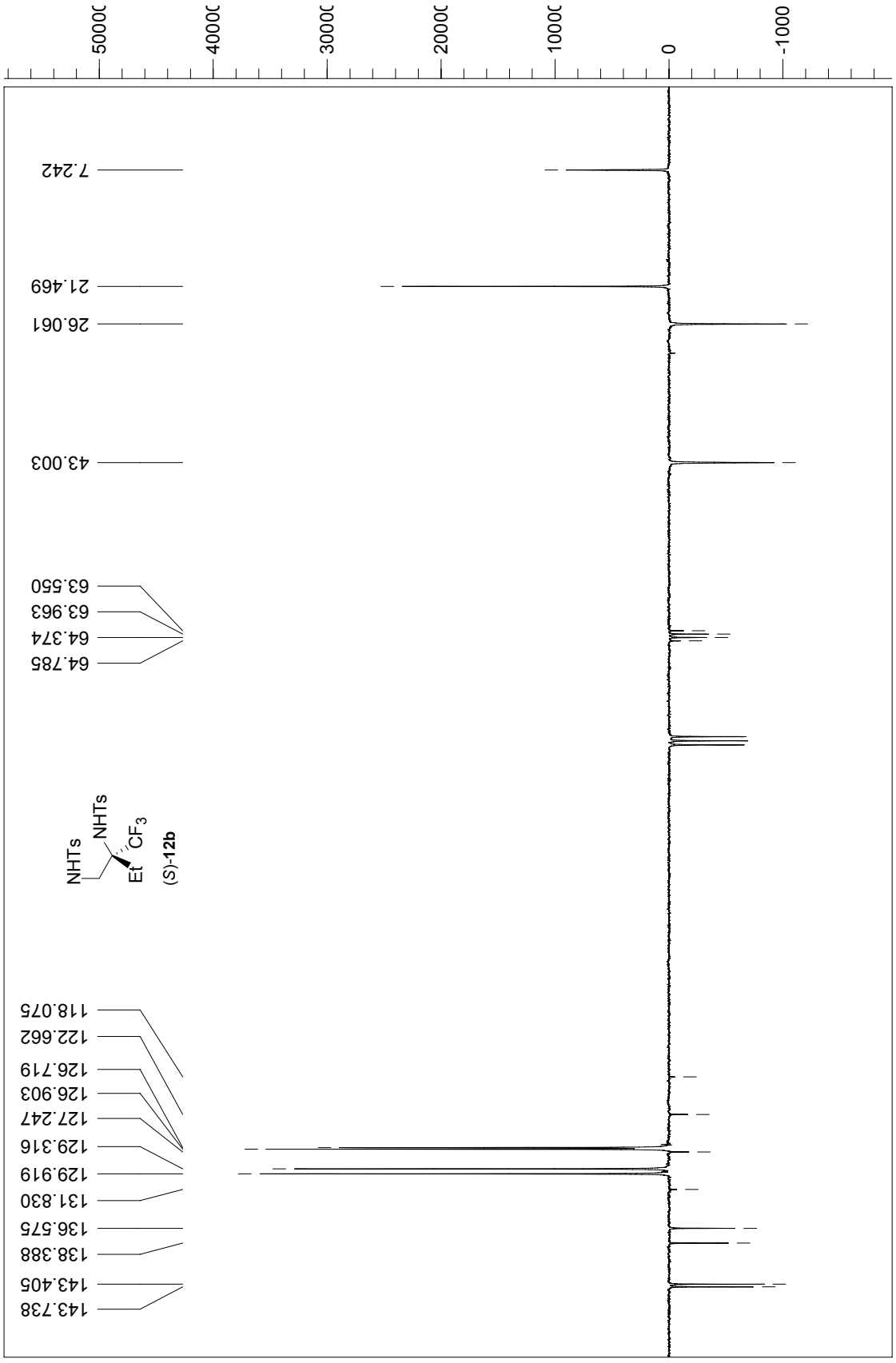

40000
30000
20000
10000
0
-72.579
-75.0
-70.0
ppm (t1)
NHTs
NHTs
Ph
CF3
(S)-12a


10000
5000
0
2.420
2.454
3.753
3.783
5.246
5.276
5.305
5.580
7.200
7.232
7.261
7.276
7.288
7.307
7.339
7.386
7.416
7.542
7.576
7.692
NHTs
NHTs
Ph
CF3
(S)-12a
3.00
3.09
2.13
1.08
1.04
13.46
2.18
2.17
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
ppm (t1)

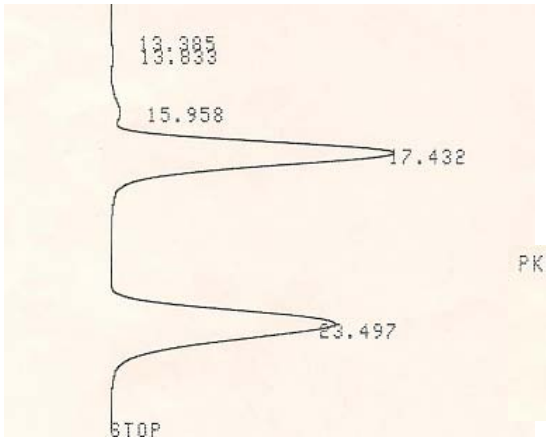

21.439
45.321
66.058
66.483
66.907
67.331
117.366
121.942
126.522
126.957
127.344
128.370
129.059
129.374
129.802
131.106
132.248
136.316
137.801
143.719
143.804
NHTs
NHTs
Ph
CF3
(S)-12a
ppm (t1)


10000
5000
0
-73.477
-80.0
-75.0
-70.0
ppm (t1)
NHTs
NHTs
Et
CF3
(S)-12b


2500
2000
1500
1000
500
0
0.974
1.003
1.031
1.950
1.980
1.997
2.027
2.416
2.455
3.260
3.299
3.363
3.384
5.358
5.496
5.517
5.535
5.553
7.242
7.262
7.332
7.364
7.653
7.687
7.759
7.792
NHTs
NHTs
Et
CF3
(S)-12b
3.22
2.23
3.00
3.10
1.13
1.14
1.03
1.07
4.96
2.18
2.08
2.08
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
ppm (f1)

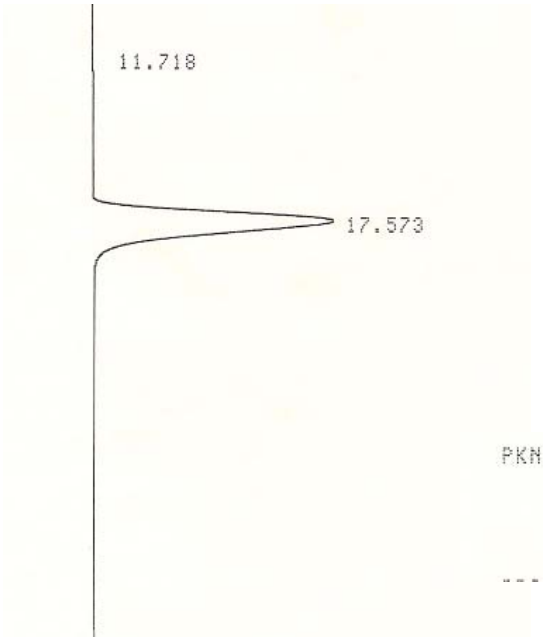

7.242
21.469
26.061
43.003
63.550
63.963
64.374
64.785
118.075
122.662
126.719
126.903
127.247
129.316
129.919
131.830
136.575
138.388
143.405
143.738
NHTs
NHTs
Et
CF3
(S)-12b
ppm (t1)

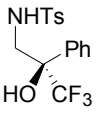
Hydroxysulfonamide (*R*)-**5a** (Daicel: chiralcel OD-H column, hexane:isopropanol 95:5, flow rate 1 mL.min^{-1})



rac-**5a**

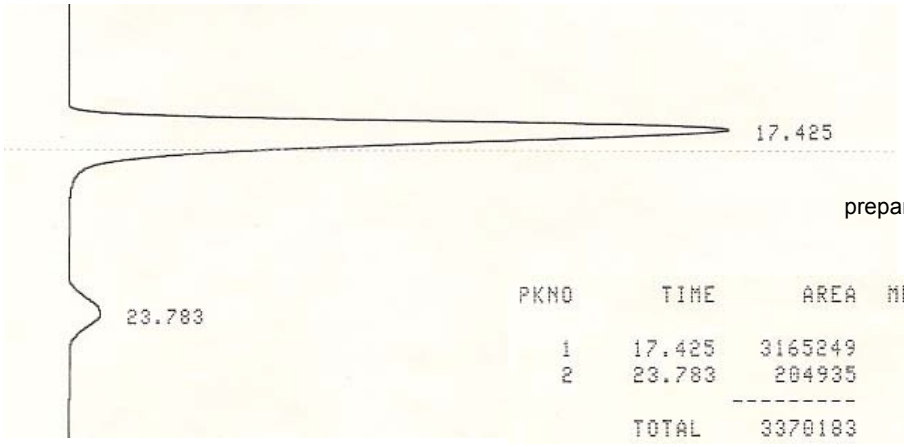
PKNO	TIME	AREA	MK	IDNO	CONC
1	17.432	2885095	V		50.2261
2	23.497	2859116			49.7739
	TOTAL	5744210			100

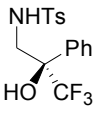




(*R*)-**5a**
prepared by deprotection of (*R*)-**4a**

PKNO	TIME	AREA	MK	IDNO	CONC
1	17.573	2164564			100
	TOTAL	2164564			100

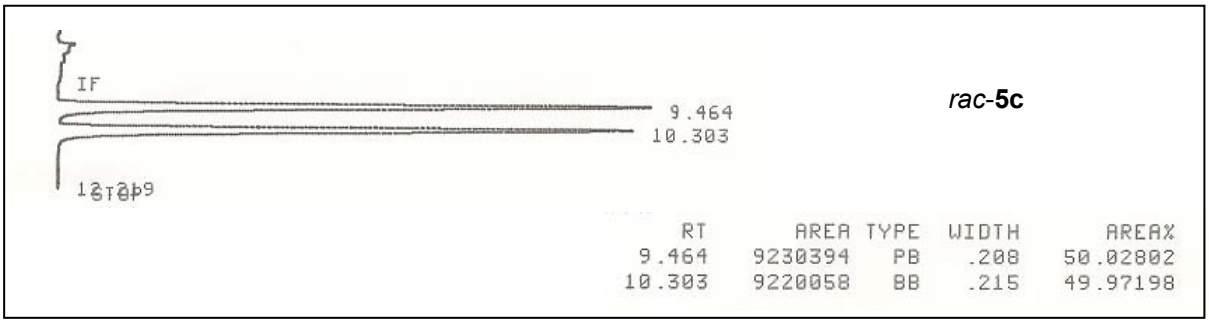




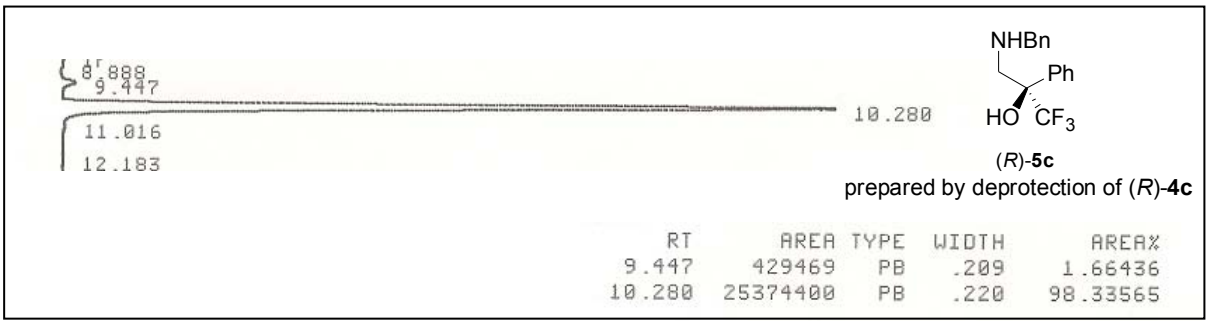
(*R*)-**5a**
prepared by ring-opening of (*S*)-**6a**

PKNO	TIME	AREA	MK	IDNO	CONC
1	17.425	3165249			93.9192
2	23.783	204935			6.0808
	TOTAL	3370183			100

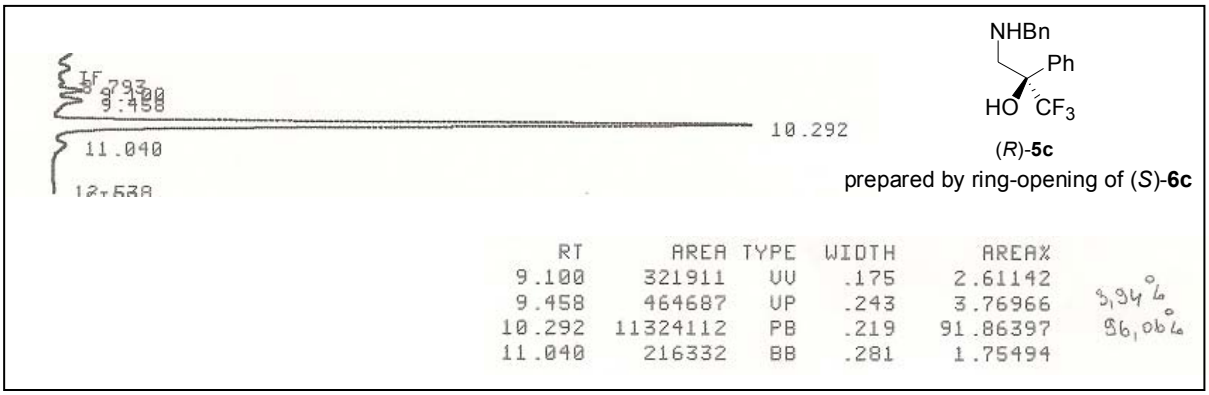
N-Benzylamino alcohol (*R*)-**5c** (Daicel: chiralpak IC column, hexane:isopropanol 90:10, flow rate 0,5 mL.min^{-1})



RT	AREA	TYPE	WIDTH	AREA%
9.464	9230394	PB	.208	50.02802
10.303	9220058	BB	.215	49.97198



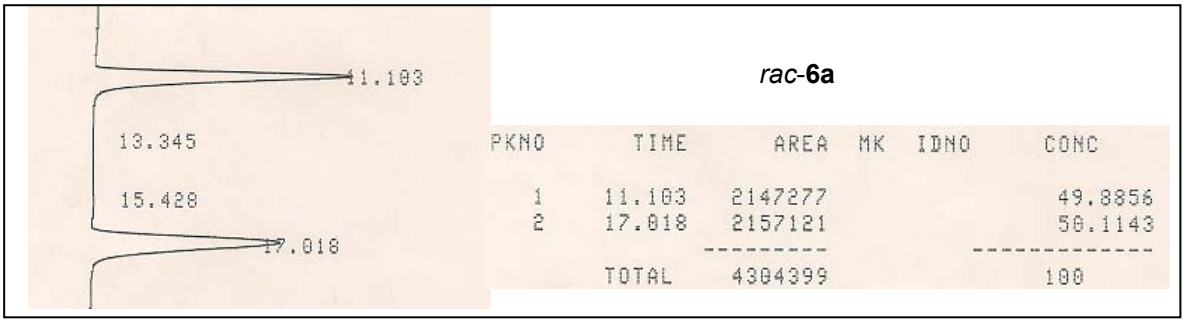
RT	AREA	TYPE	WIDTH	AREA%
9.447	429469	PB	.209	1.66436
10.280	25374400	PB	.220	98.33565



RT	AREA	TYPE	WIDTH	AREA%
9.100	321911	VV	.175	2.61142
9.458	464687	VP	.243	3.76966
10.292	11324112	PB	.219	91.86397
11.040	216332	BB	.281	1.75494

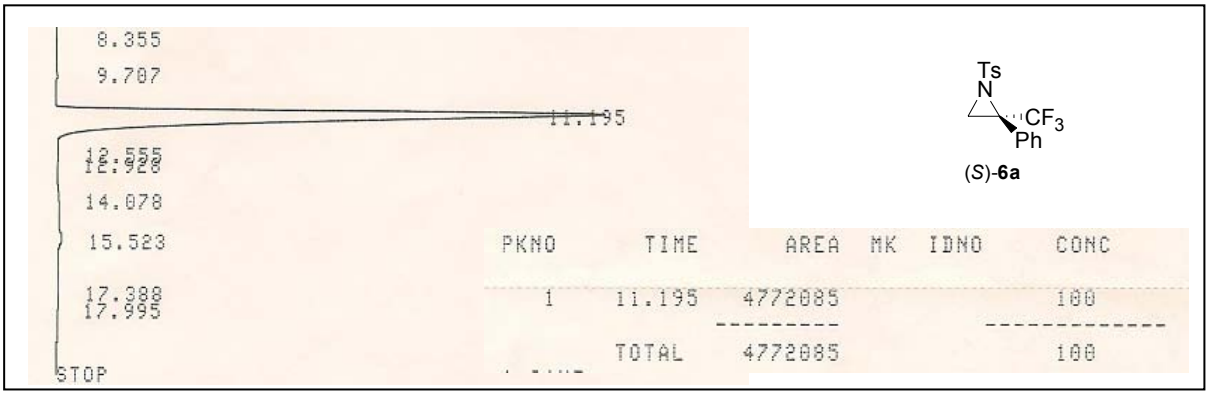
3,94 %
96,06 %

N-Tosyl aziridine (*S*)-**6a** (Daicel: chiralcel OD-H column, hexane:isopropanol 90:10, flow rate 1 mL.min^{-1})



rac-**6a**

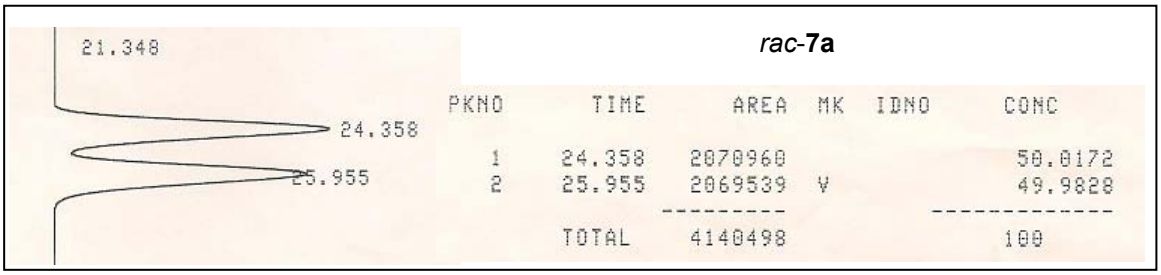
PKNO	TIME	AREA	MK	IDNO	CONC
1	11.103	2147277			49.8856
2	17.018	2157121			50.1143
	TOTAL	4304399			100



(*S*)-**6a**

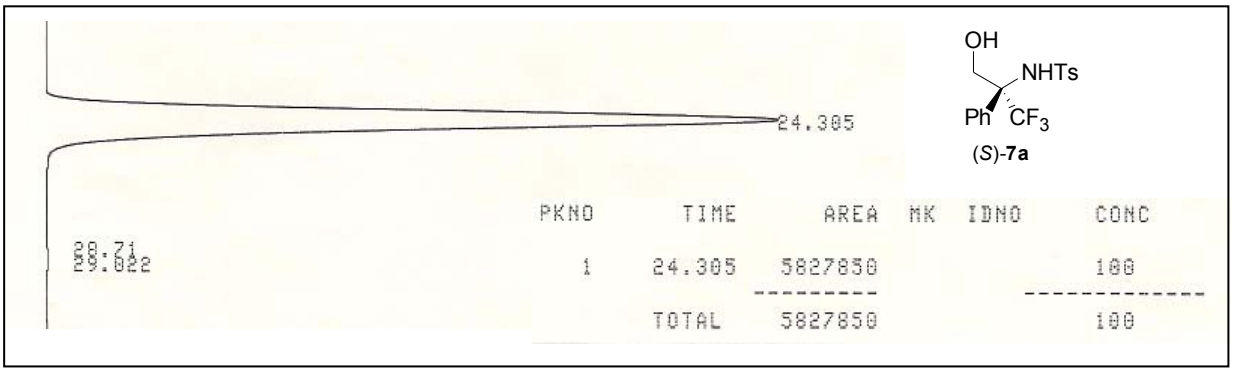
PKNO	TIME	AREA	MK	IDNO	CONC
1	11.195	4772085			100
	TOTAL	4772085			100

Hydroxysulfonamide (*S*)-**7a** (Daicel: chiralpak IC column, hexane:isopropanol 90:10, flow rate 1 $mL.min^{-1}$)



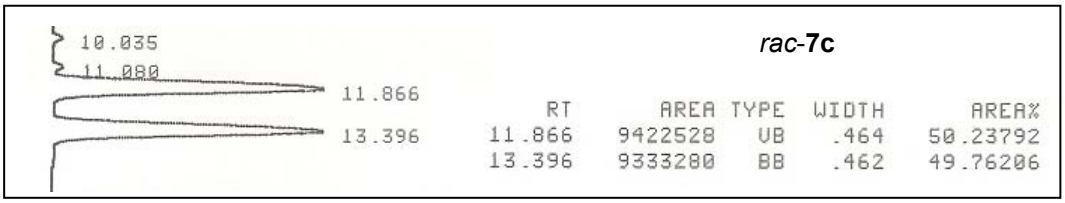
rac-**7a**

PKNO	TIME	AREA	MK	IDNO	CONC
1	24.358	2070960			50.0172
2	25.955	2069539	V		49.9828
	TOTAL	4140498			100



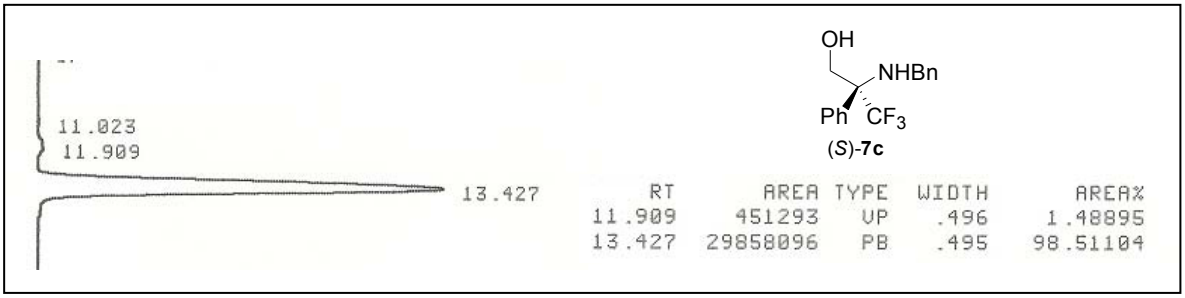
PKNO	TIME	AREA	MK	IDNO	CONC
1	24.305	5827850			100
	TOTAL	5827850			100

N-Benzylamino alcohol (*S*)-**7c** (Daicel: chiralpak IC column, hexane:isopropanol 90:10, flow rate 0,5 mL.min^{-1})



rac-**7c**

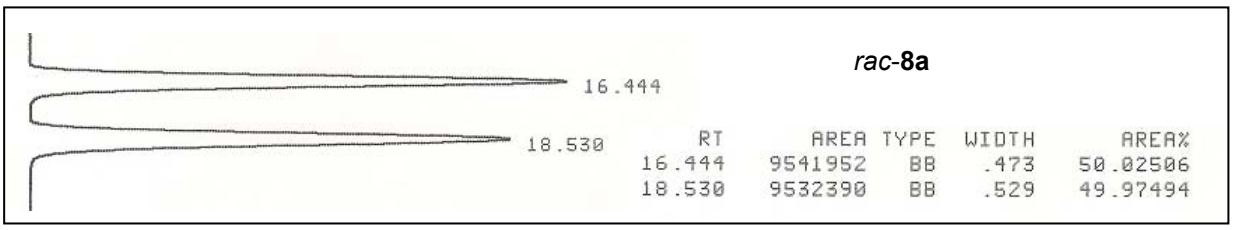
RT	AREA	TYPE	WIDTH	AREA%
11.866	9422528	VB	.464	50.23792
13.396	9333280	BB	.462	49.76206

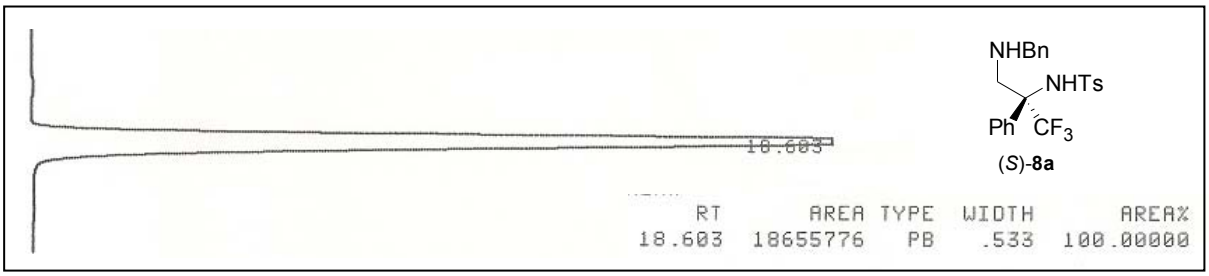


(*S*)-**7c**

RT	AREA	TYPE	WIDTH	AREA%
11.909	451293	VP	.496	1.48895
13.427	29858096	PB	.495	98.51104

Diamine (*S*)-**8a** (Daicel: chiralpak IC column, hexane:isopropanol 90:10, flow rate 1 mL.min^{-1})





Disulfonamide (*S*)-**12a** (Daicel: chiralpak IC column, hexane:isopropanol 75:25, flow rate 1 $mL.min^{-1}$)