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Supplementary Information

Reaction of 4-substituted-N-aryl-1,8-naphthalimides with primary amines: substitution in the heterocyclic ring.

Ryan K. McKenney, Leah L. Groess, Kyle M. Kopidlansky, Kelsey L. Dunkle, and David E. Lewis*

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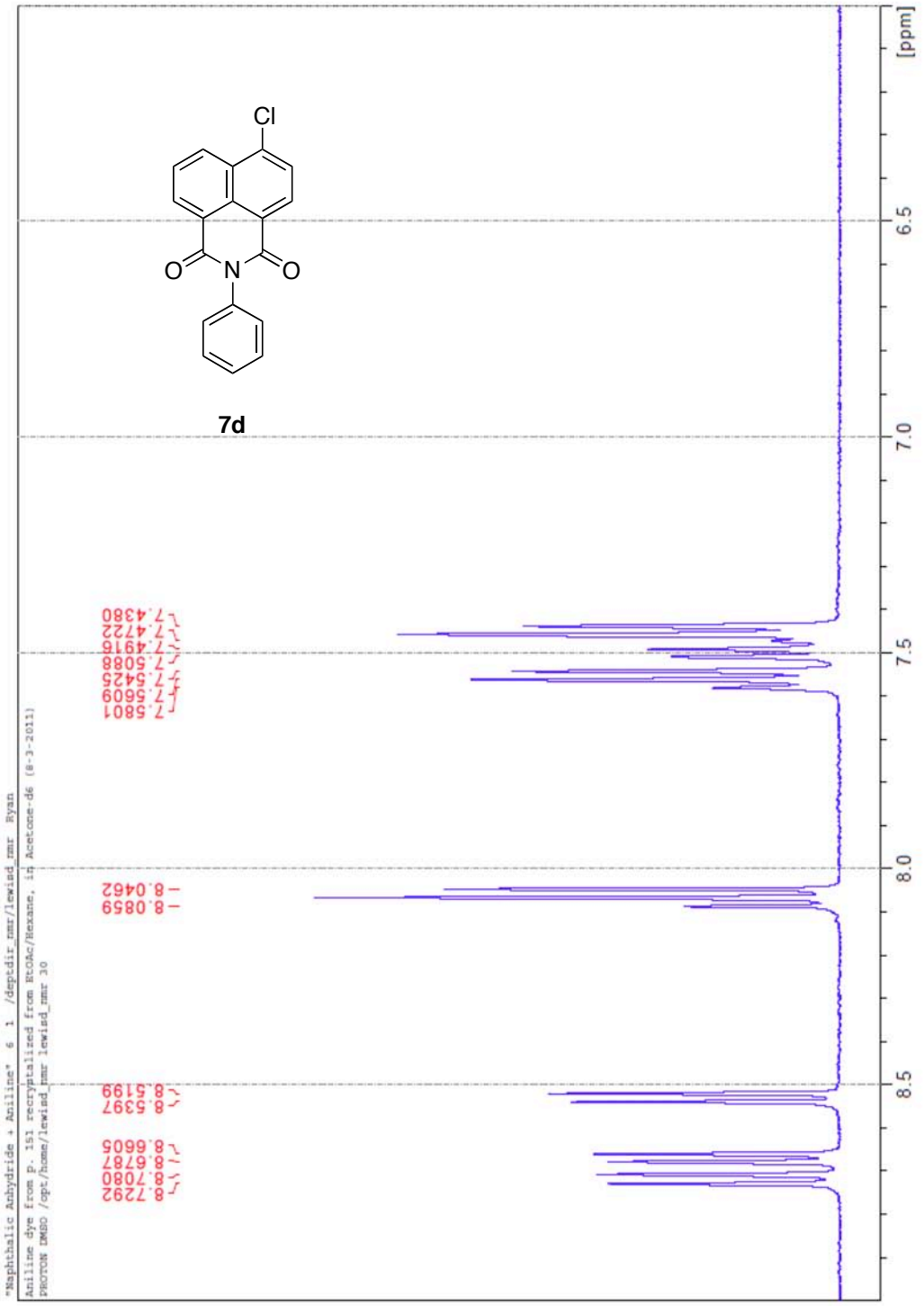

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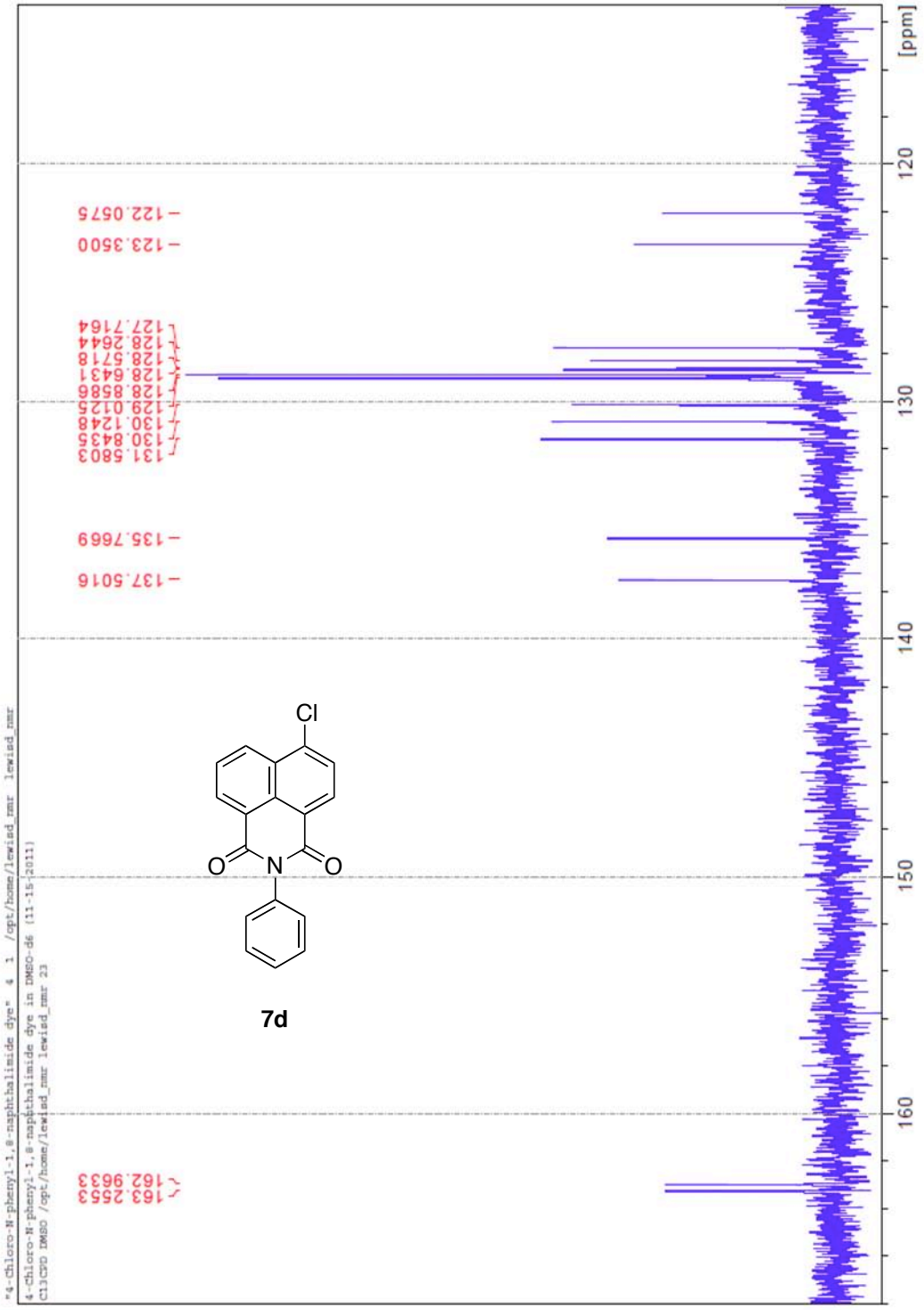

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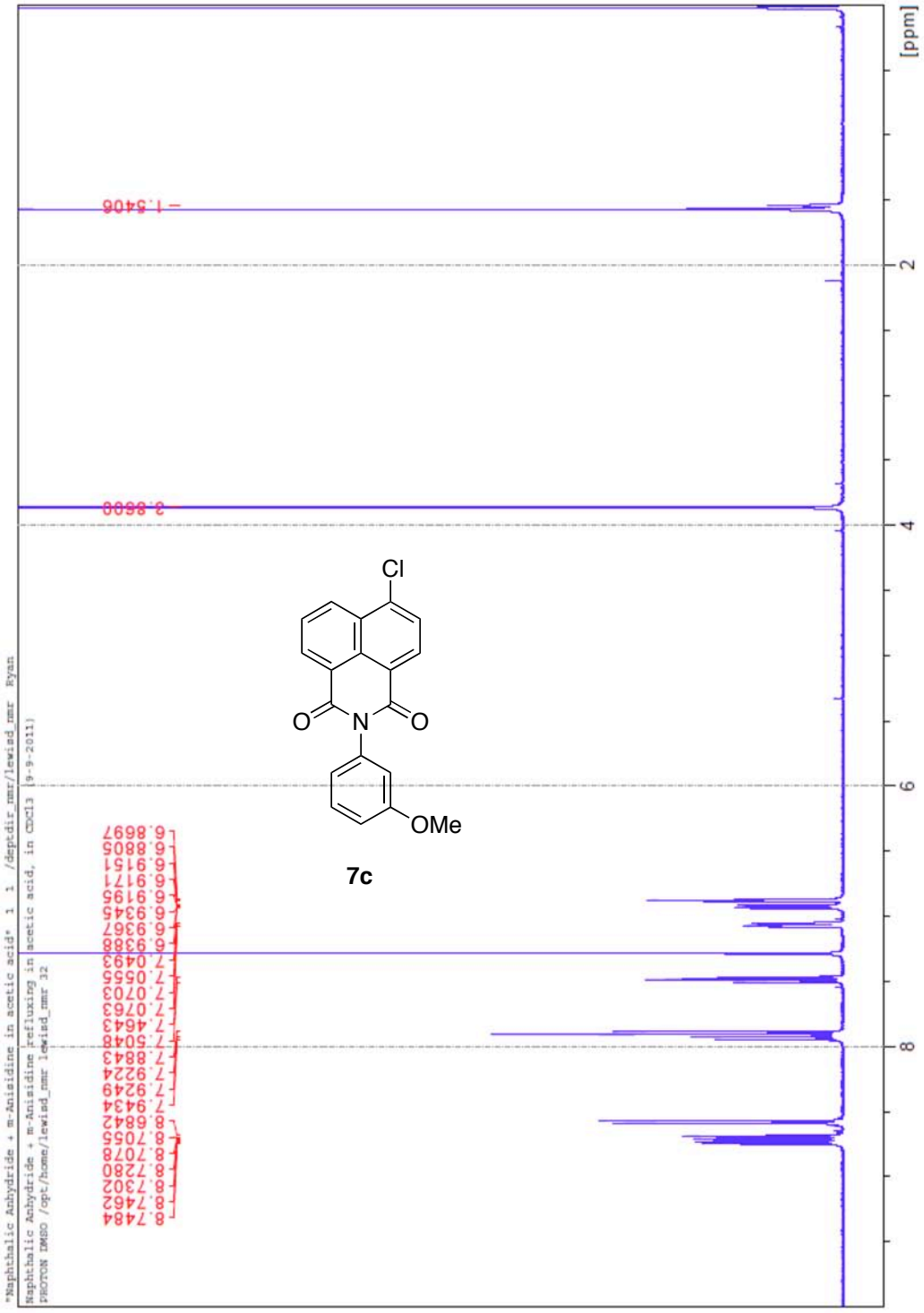

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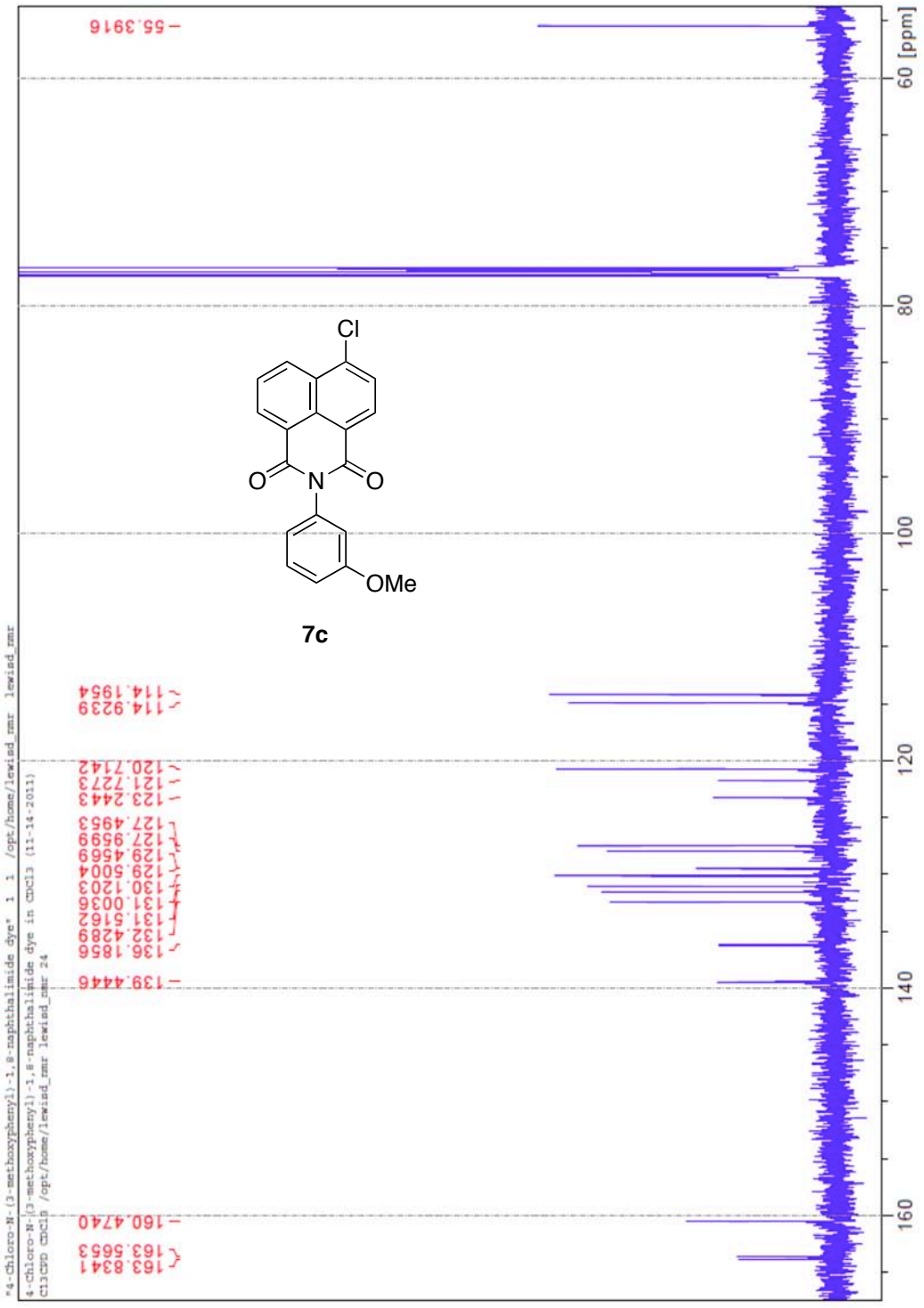

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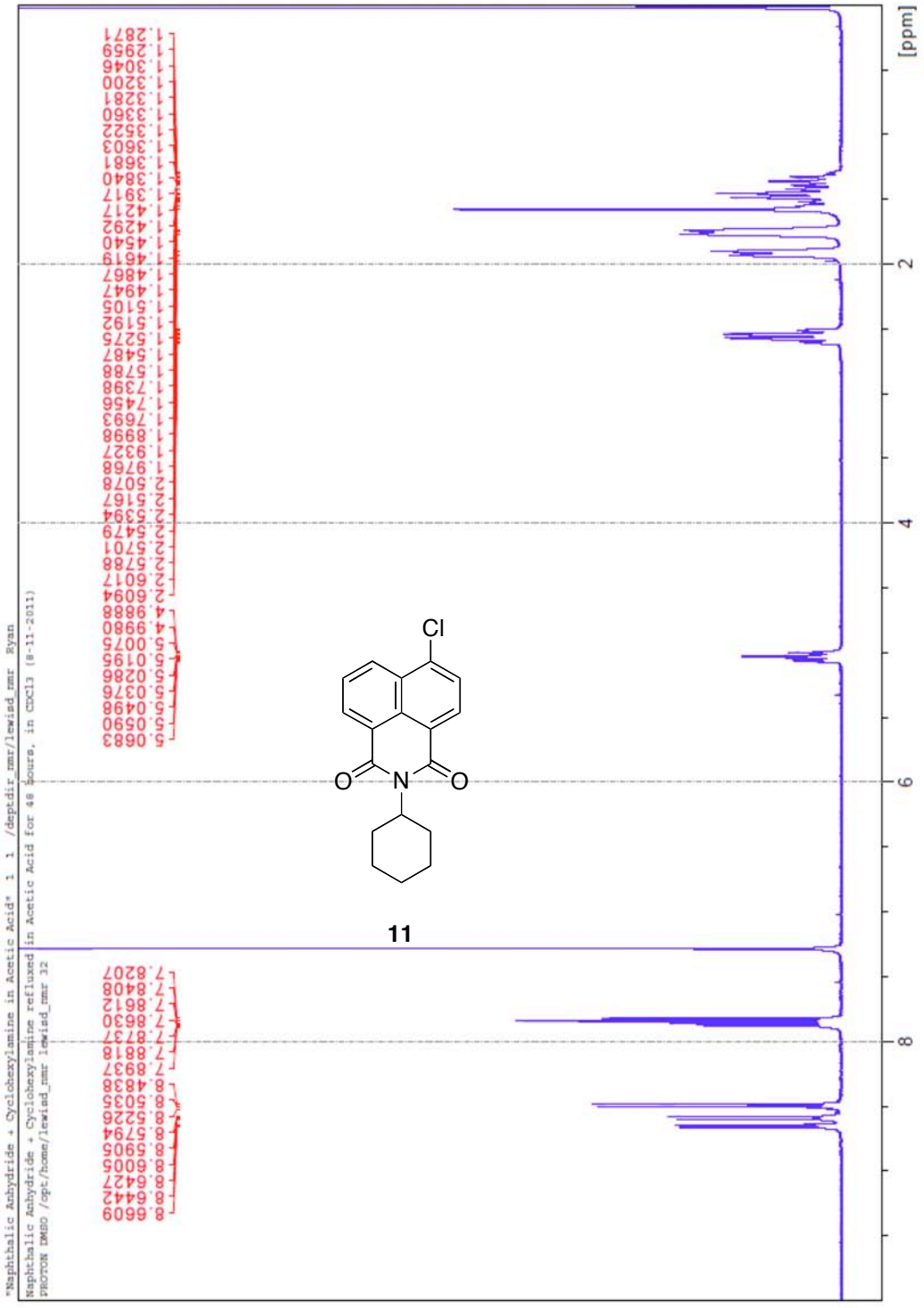

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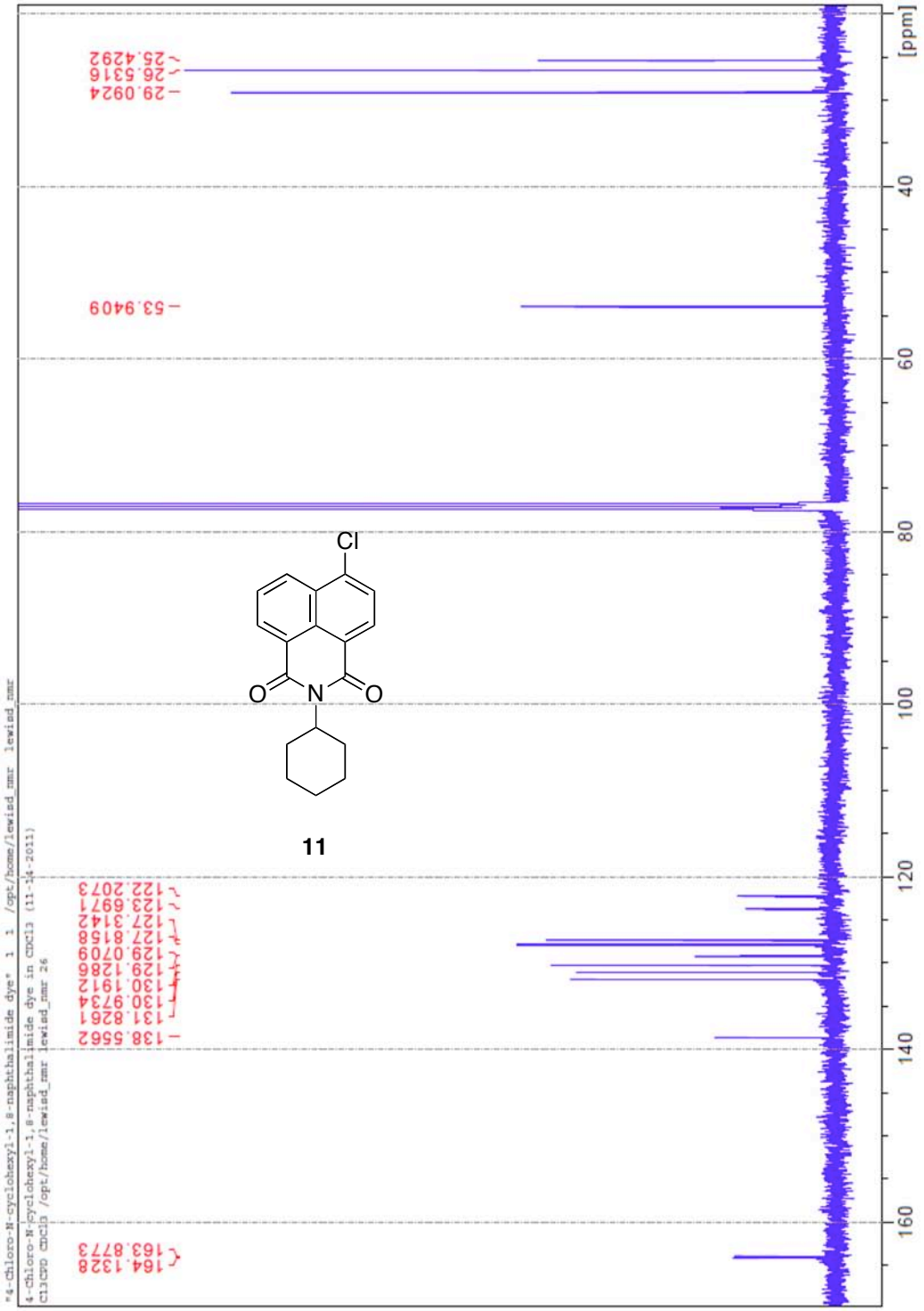

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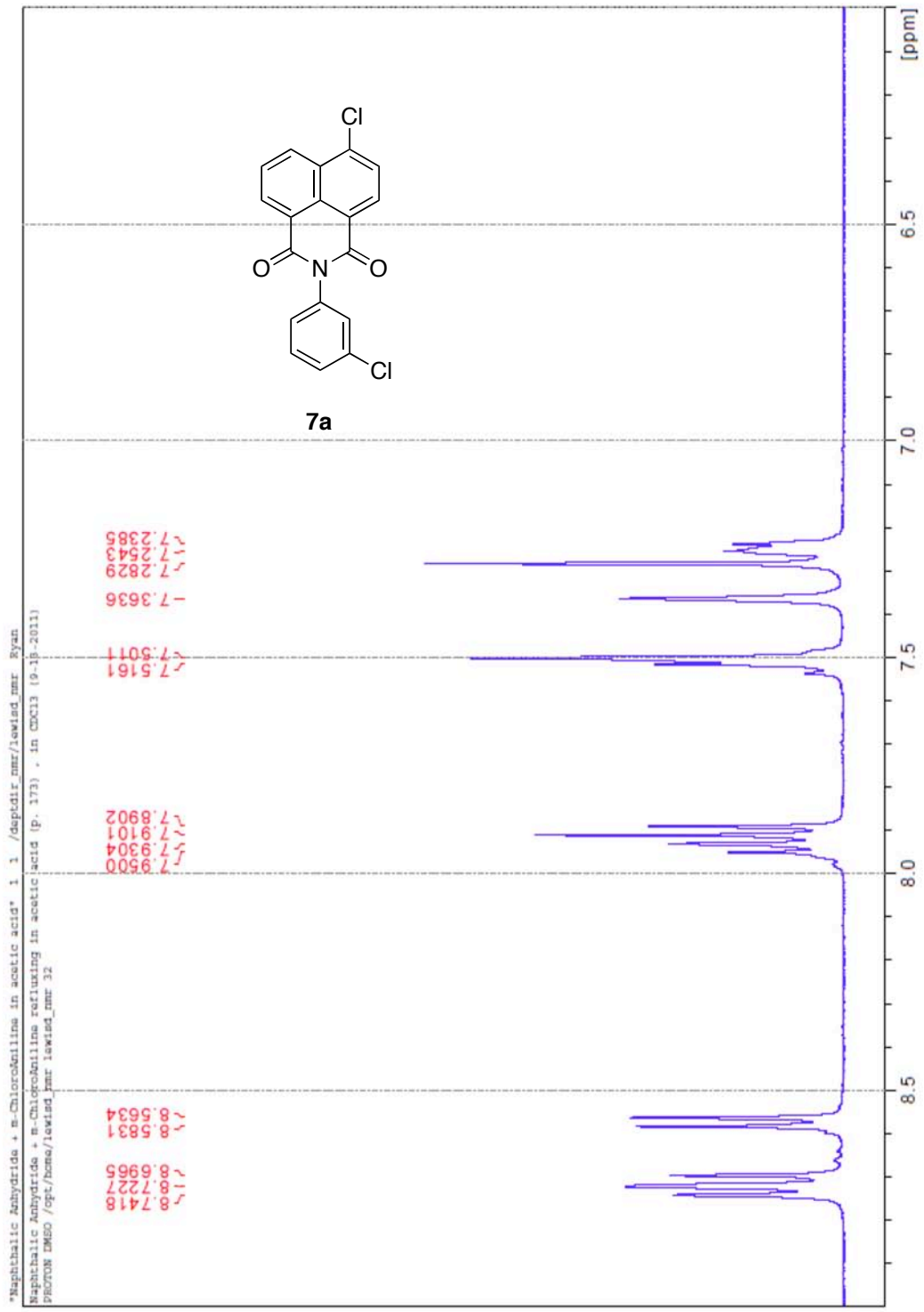

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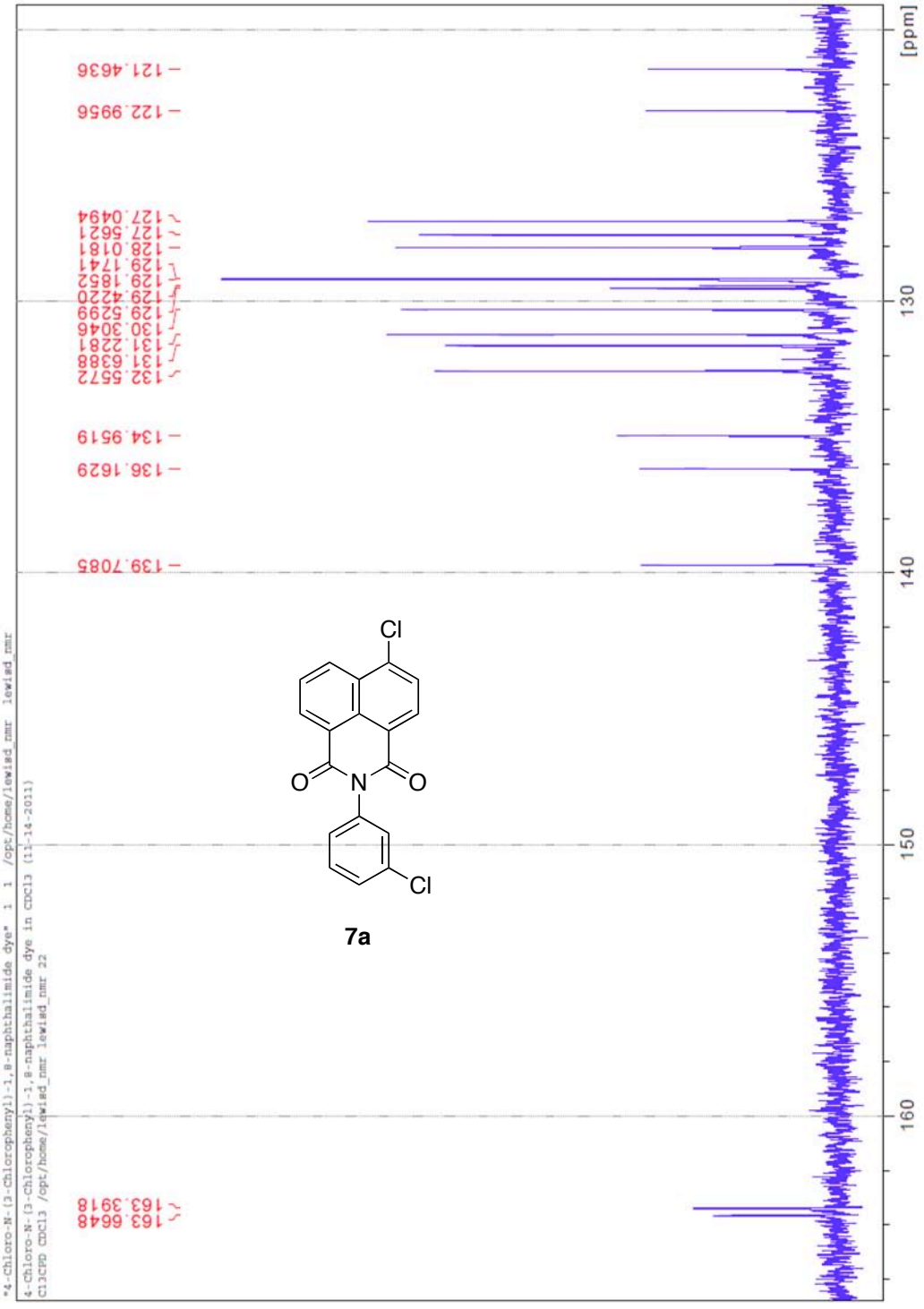

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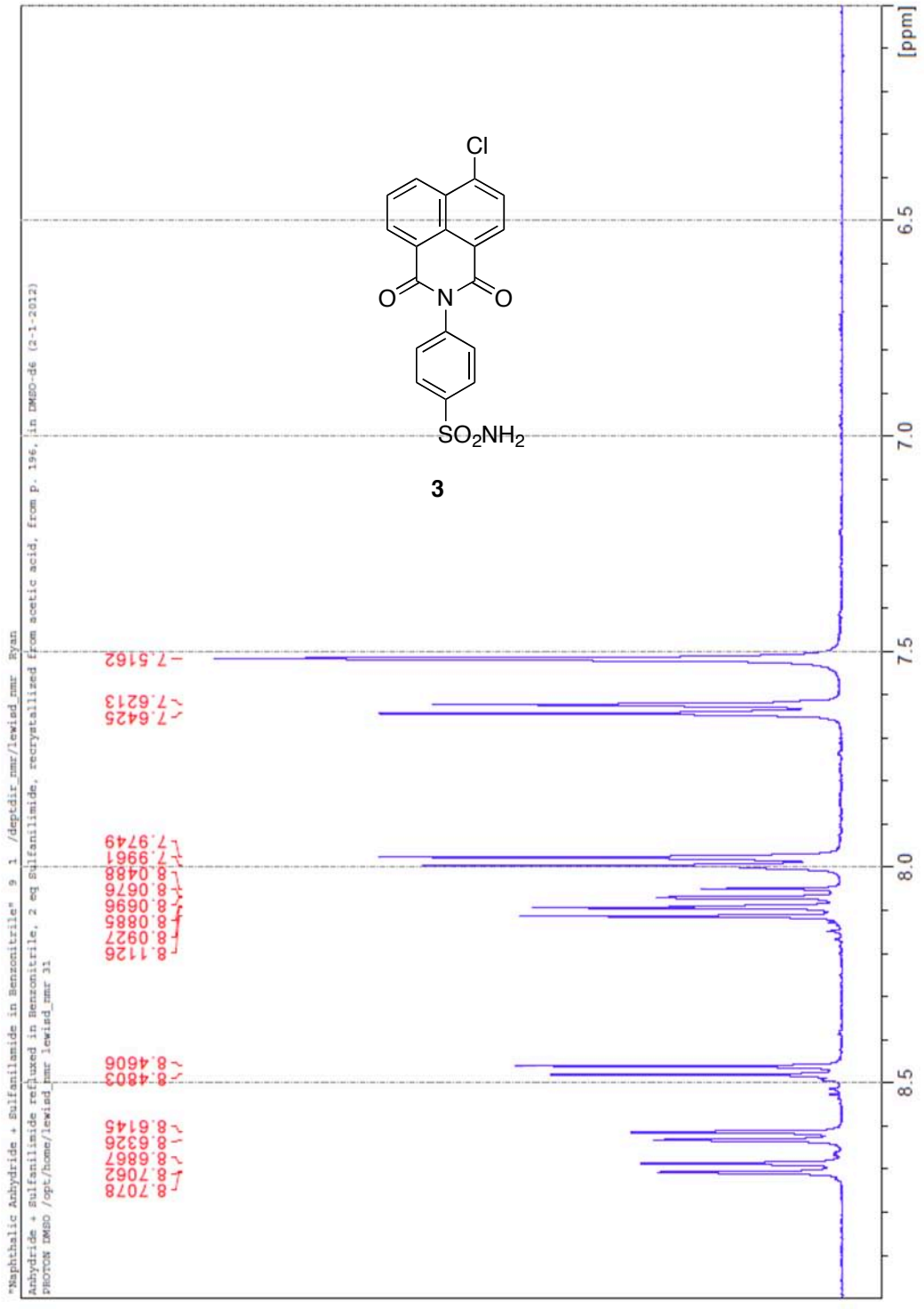

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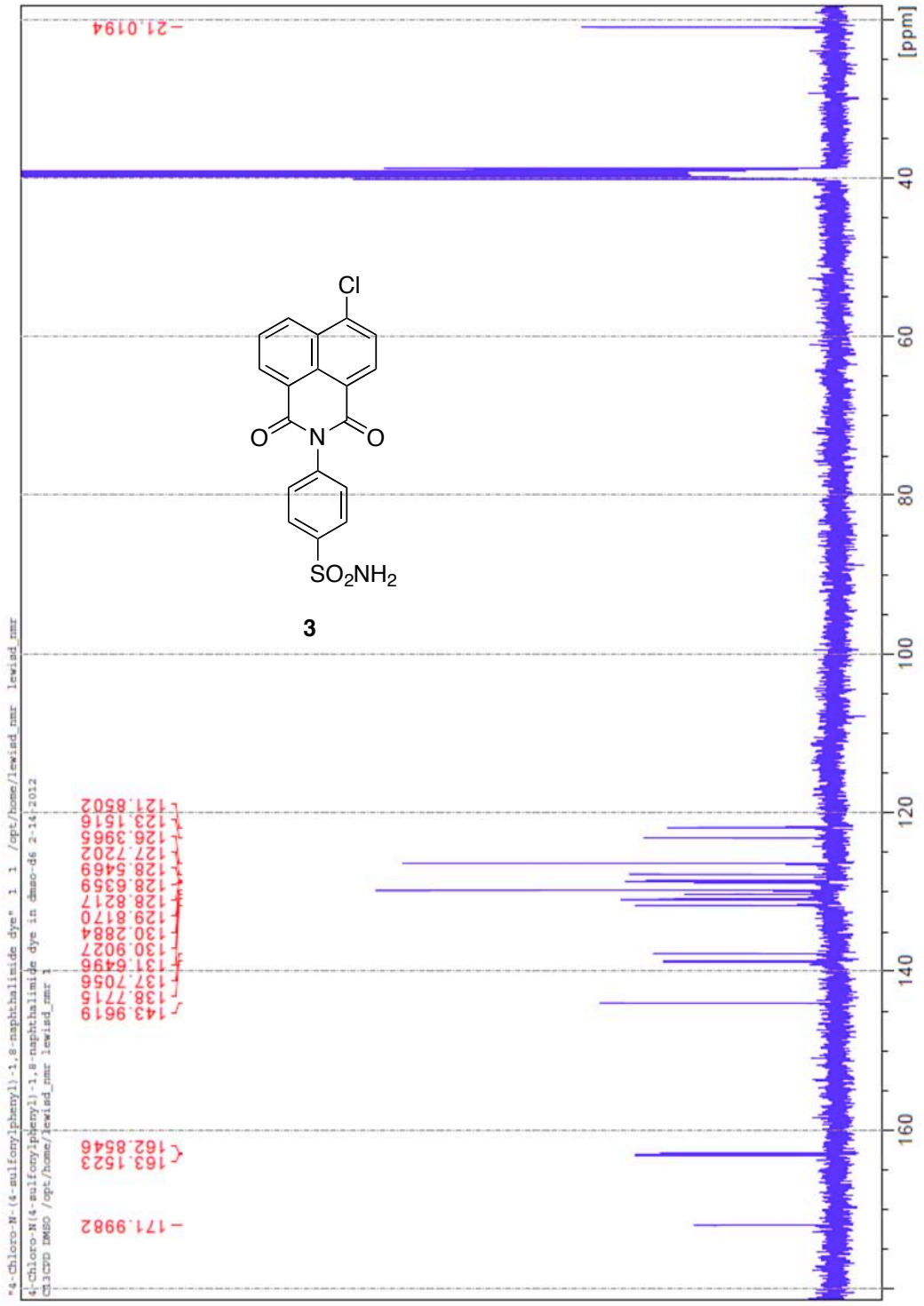

The resonances at 172 and 21 ppm are from residual acetic acid in this sample.

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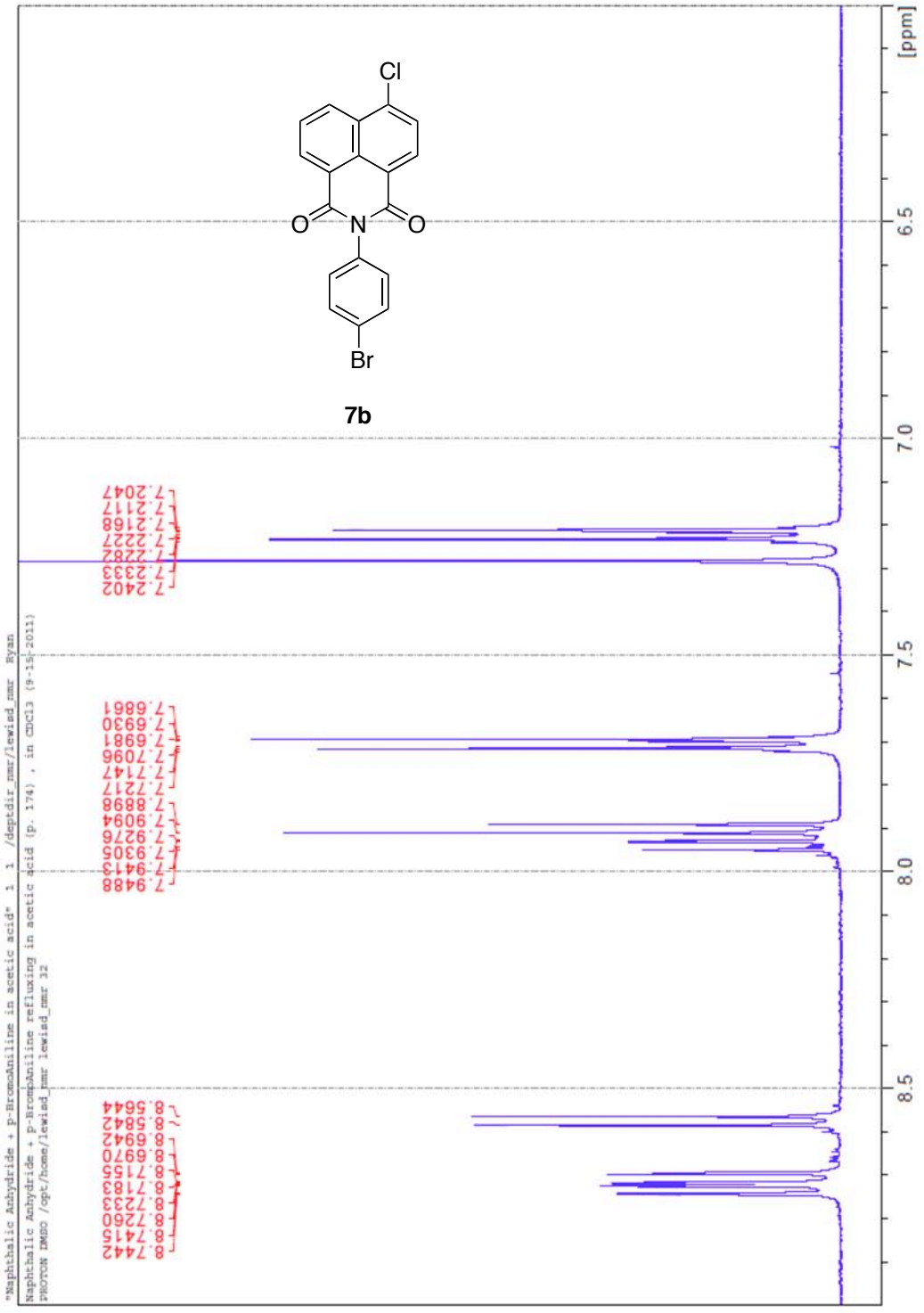

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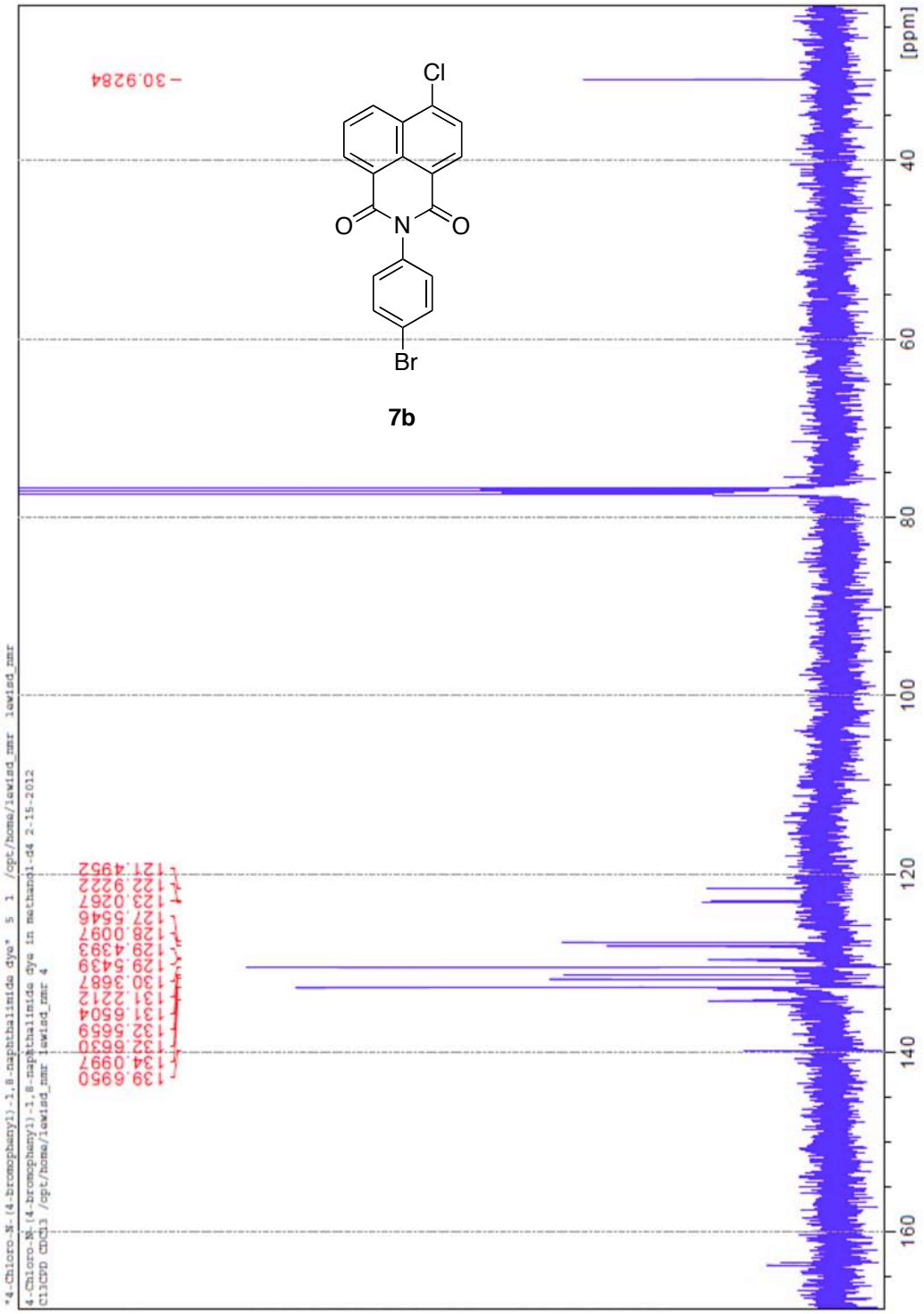

(The peak at 30.9 ppm is due to residual acetone in the NMR tube).

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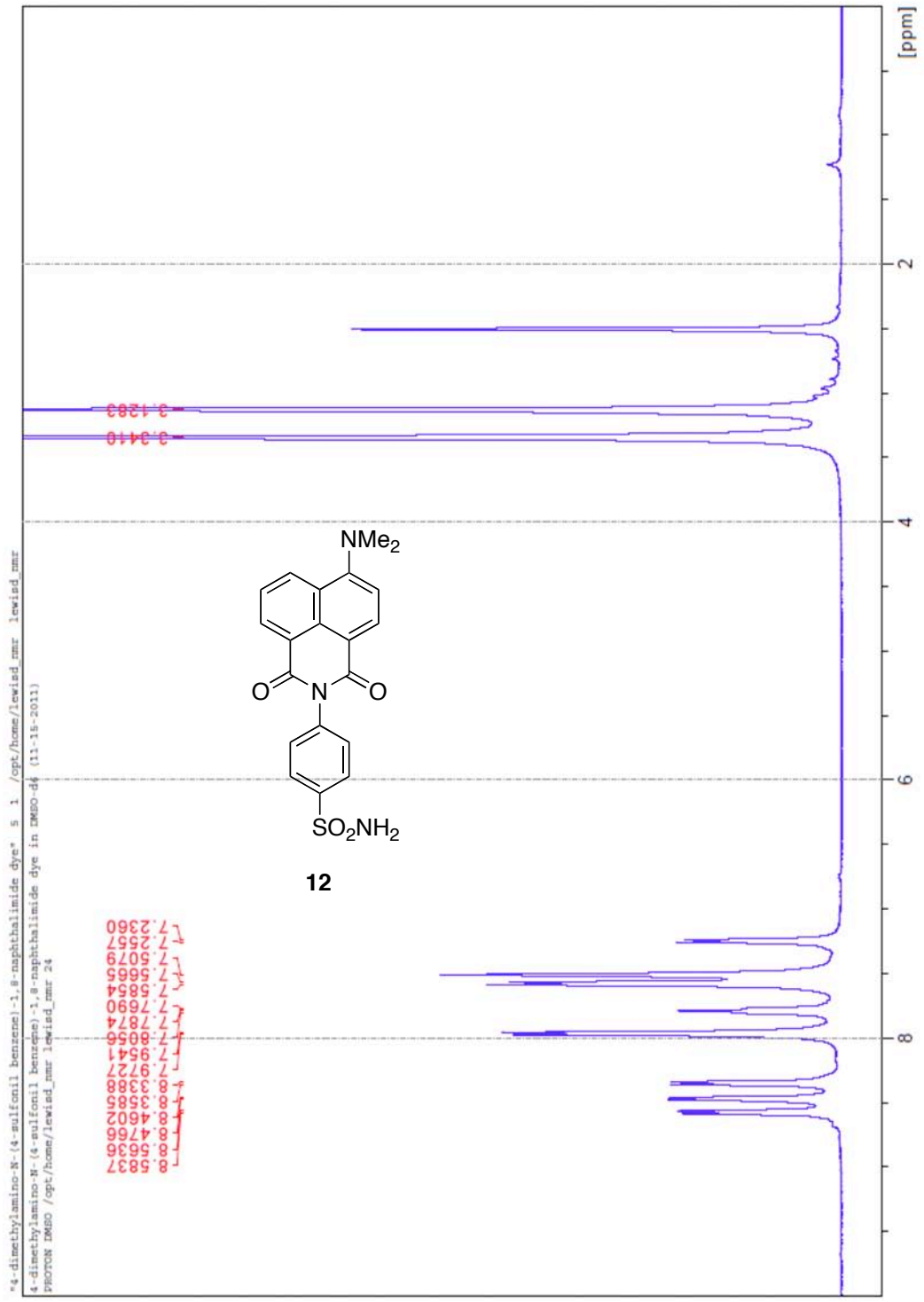

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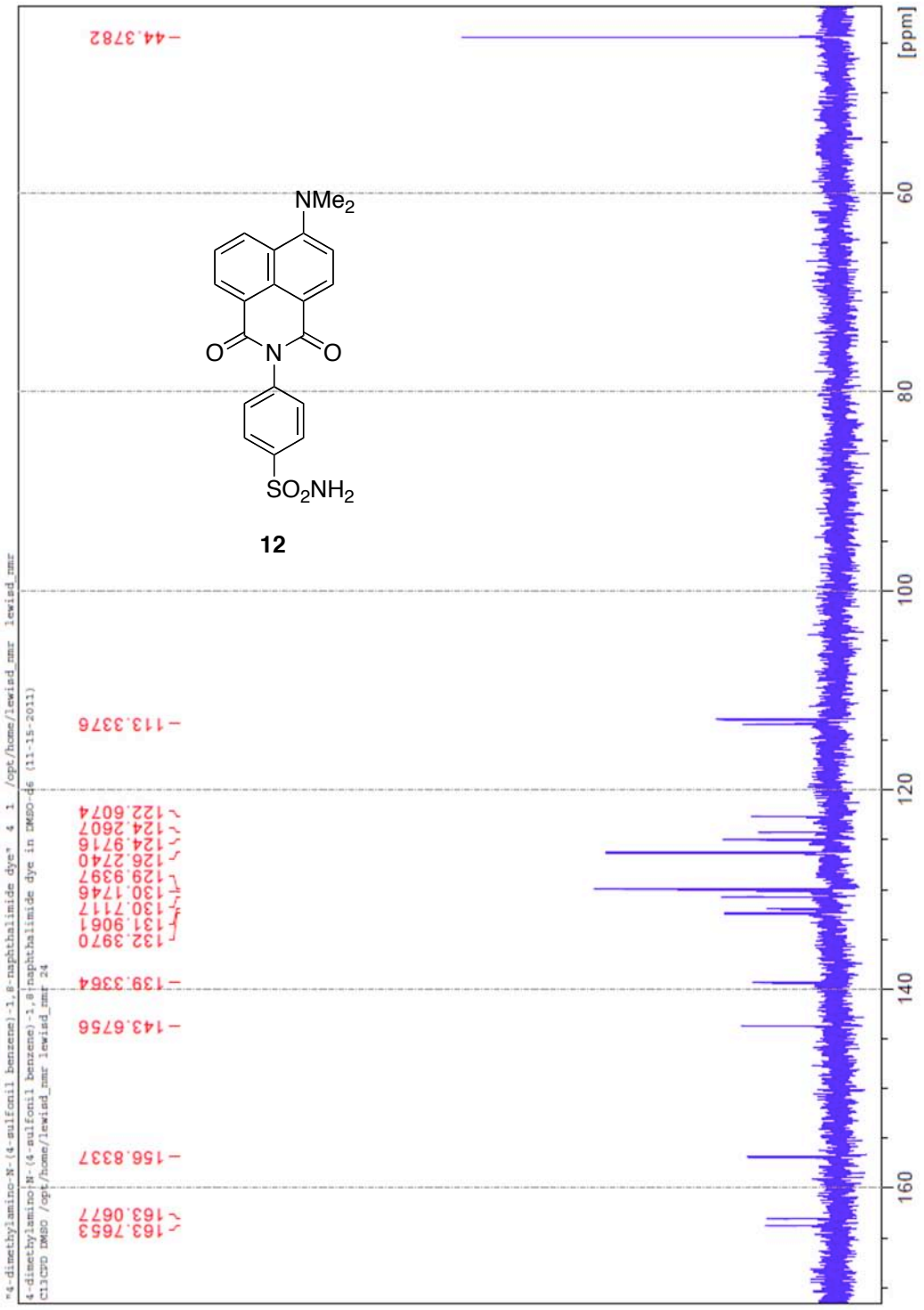

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Cartesian coordinates of Activated Complex Model **10**

C	0.465136	3.614016	-3.197799
C	0.463747	3.374732	-0.386013
C	1.352533	2.691277	-2.586478
C	-0.403844	4.360147	-2.436033
C	-0.389141	4.250434	-1.033247
C	1.326249	2.527020	-1.155251
C	2.285069	1.914290	-3.336233
C	2.170320	1.534645	-0.567665
C	3.142839	1.025383	-2.736282
C	3.069659	0.828039	-1.343324
C	0.470045	3.469274	1.127055
N	1.533785	2.876295	1.737931
C	2.001084	1.124879	0.854632
Cl	2.366082	2.084926	-5.087698
C	1.632759	2.725319	3.130148
C	2.020821	2.264410	5.881618
C	0.529159	2.538868	3.986022
C	2.929395	2.678679	3.678886
C	3.120124	2.443732	5.041997
C	0.729943	2.321378	5.346193
O	3.144989	0.715486	1.430477
N	0.877535	0.363131	1.246795
C	0.929750	-1.092791	0.993794
C	-0.285257	-1.776380	1.620901
C	-0.276990	-3.298365	1.435703
C	-1.492450	-3.981038	2.071075
O	-0.390179	4.144296	1.698902
H	3.859096	0.455654	-3.339276
H	3.725338	0.086983	-0.872009
H	-1.032939	4.880677	-0.409120
H	-1.088861	5.066185	-2.919227
H	0.484772	3.726286	-4.287857
H	2.958503	0.552348	2.355881
H	1.850158	-1.480967	1.444775
H	-0.314002	-1.524111	2.687086
H	0.980276	-1.314493	-0.078358
H	-0.243668	-3.537241	0.366571
H	0.641327	-3.711260	1.868633
H	-1.460923	-5.066261	1.921029
H	-1.533579	-3.793828	3.150184
H	-2.427289	-3.611189	1.634607
H	-1.200606	-1.363875	1.181365
H	0.026763	0.762165	0.871159
H	-0.484531	2.596086	3.573259
H	3.782878	2.859273	3.015435
H	4.136989	2.417734	5.450072
H	2.166490	2.090033	6.953807
H	-0.138493	2.189008	6.001566