

SUPPORTING INFORMATION

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1. ^1H and ^{13}C NMR spectra of crude synthesized compounds.

NOTE

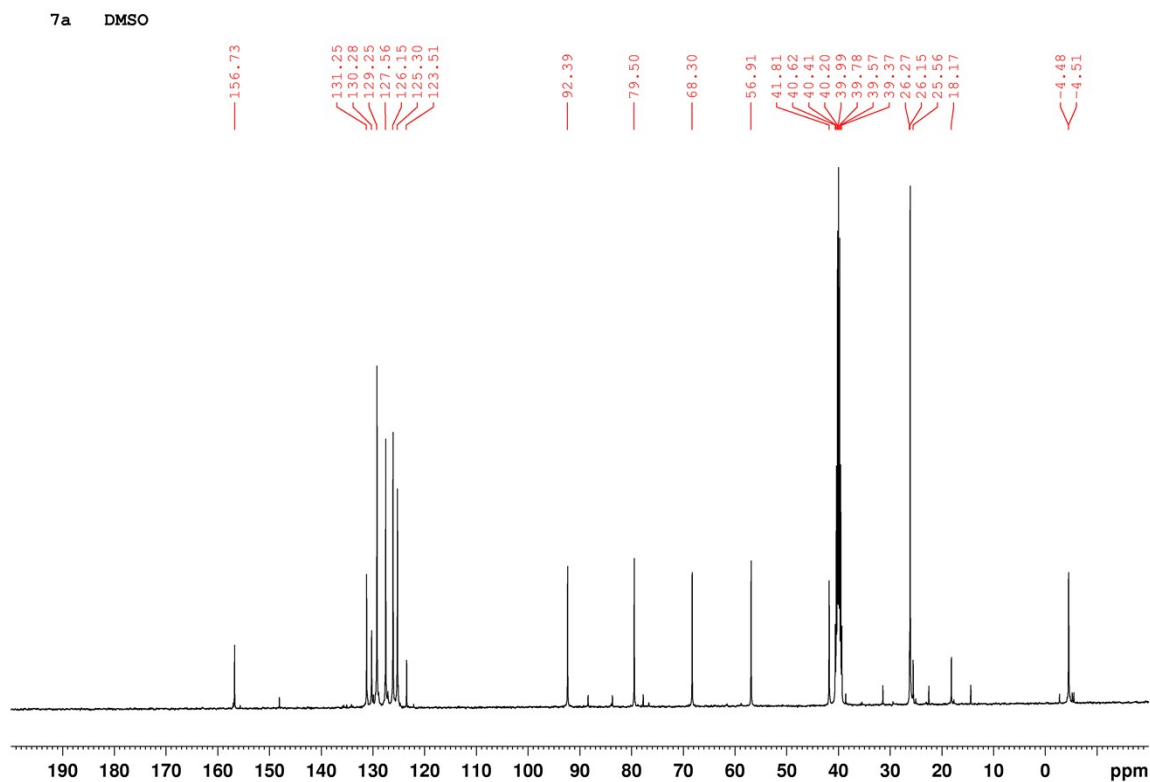
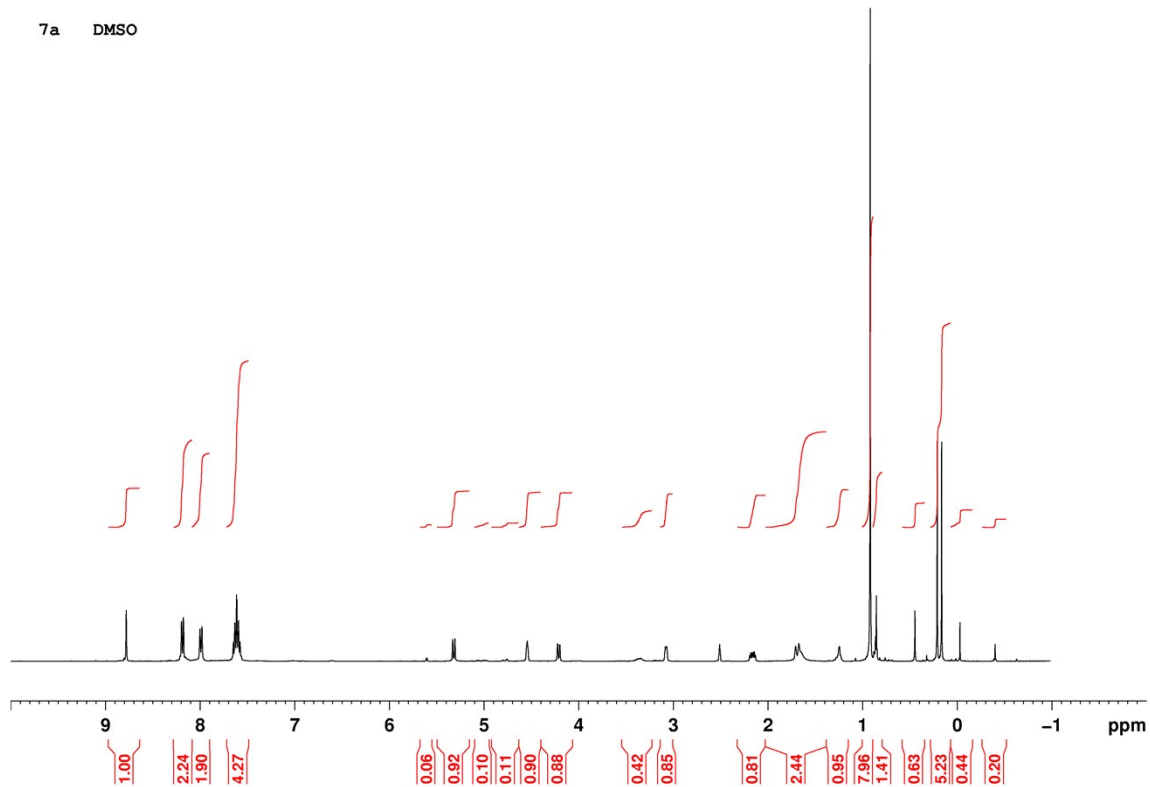
The attached spectra of synthesized compounds refer to samples at the 95% of purity, and sometimes may contain traces of solvents.

However, we checked that the mentioned impurities not affecting the other signals, in order to assign the structure beyond any reasonable doubt.

This was done to save precious pure samples for the subsequent synthetic steps and final analyses.

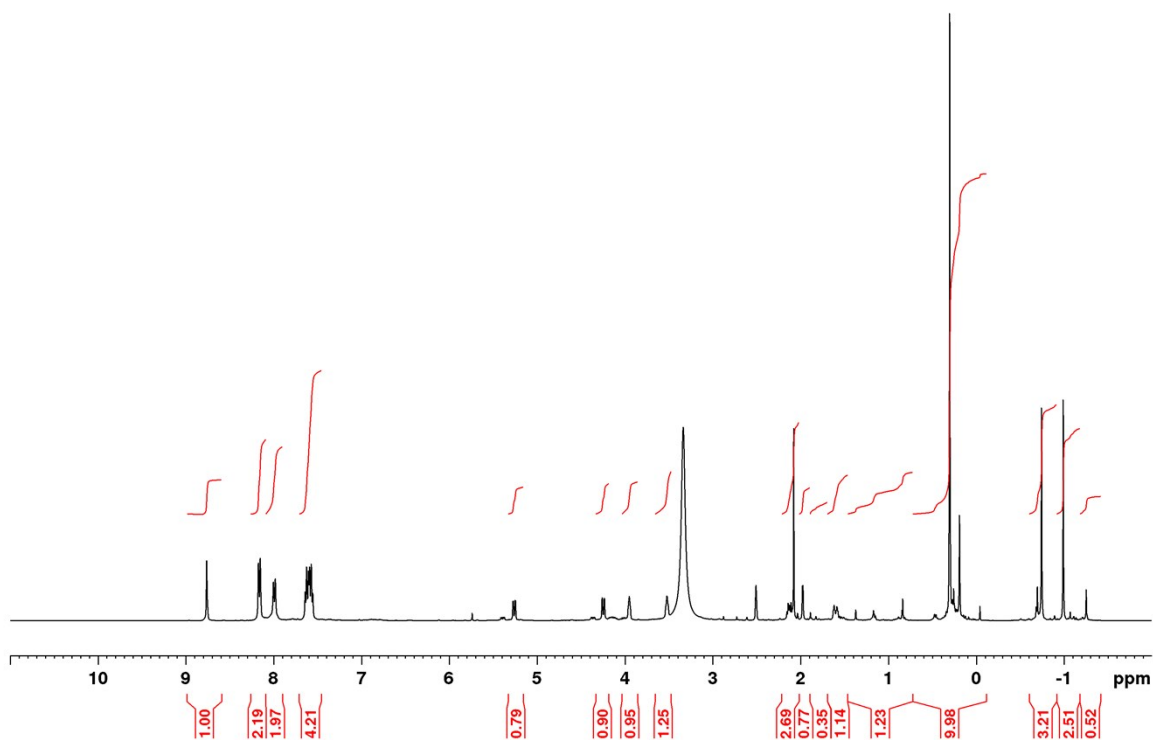
Further spectroscopic materials (COSY, NOESY, TOCSY, HSQC, Titration spectra and tc spectra) are available upon request by citing the present paper.

7a

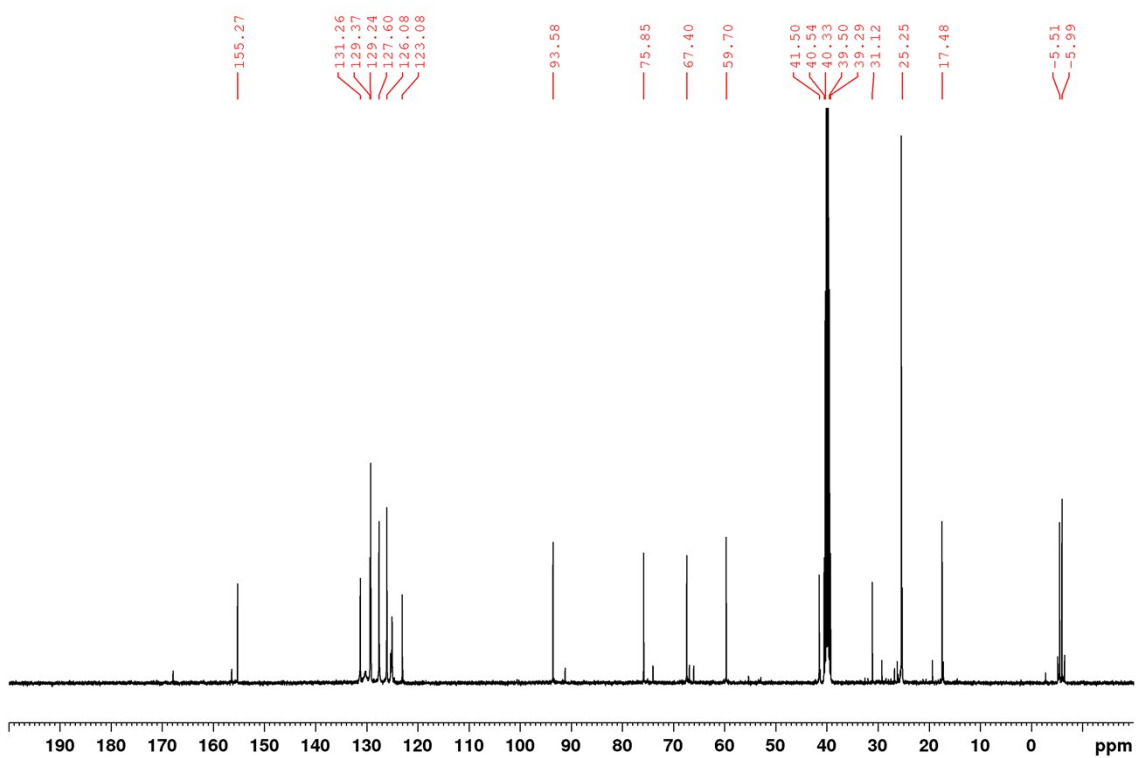


7b

7b DMSO

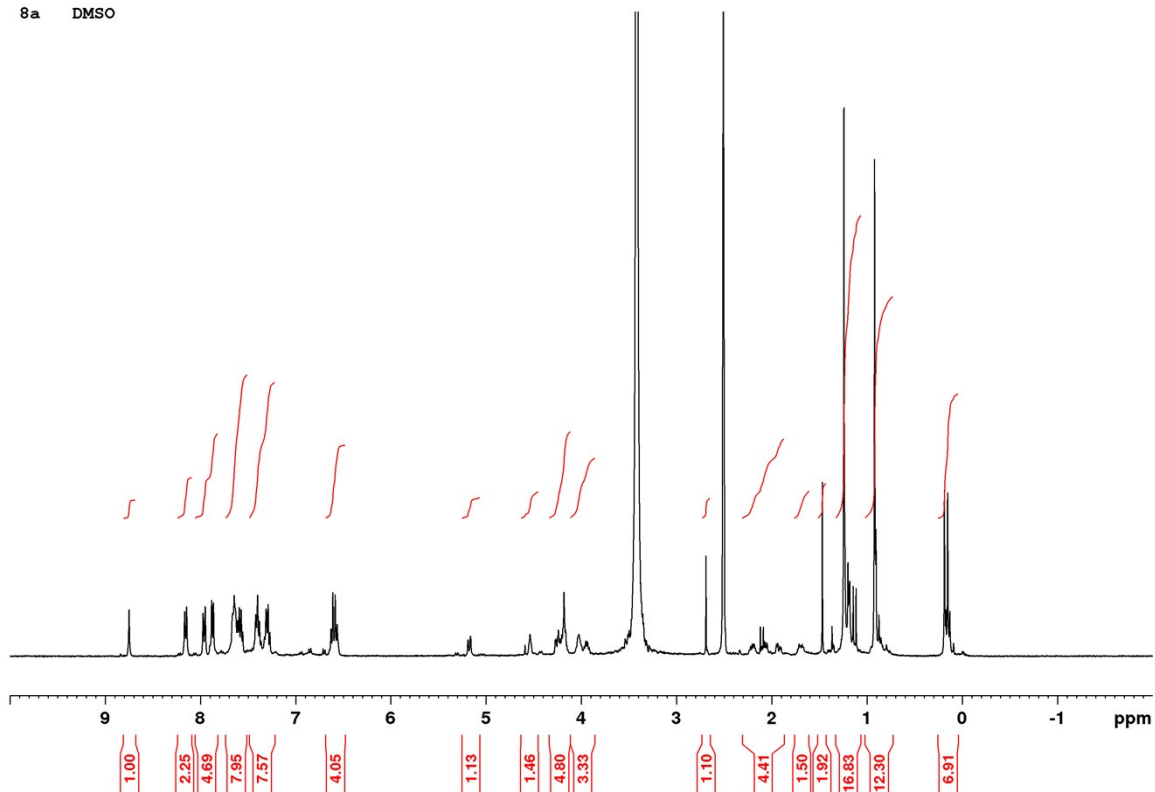


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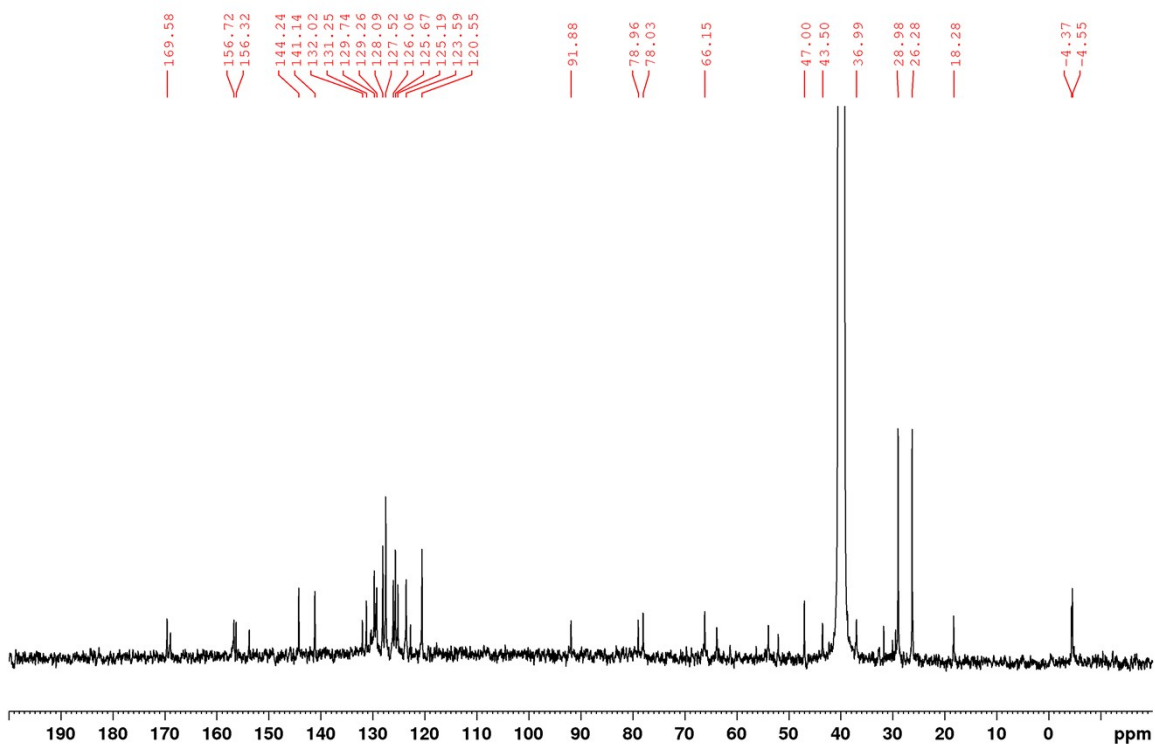


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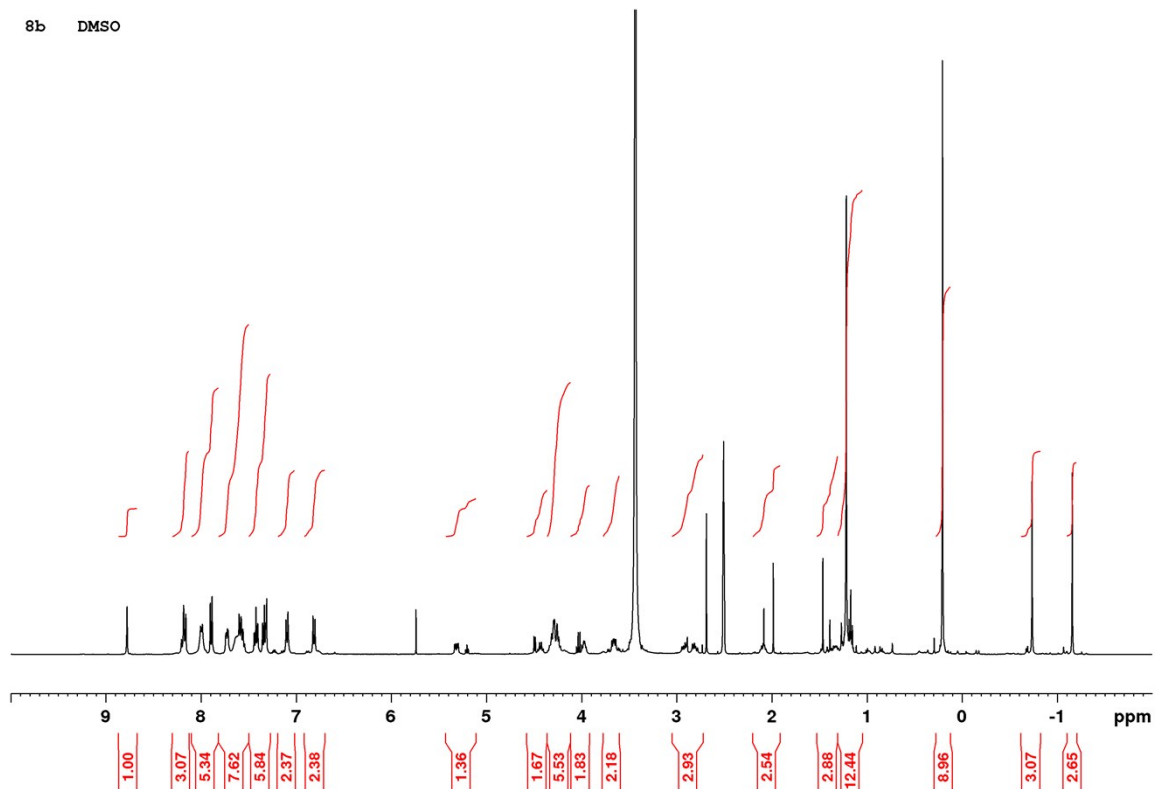


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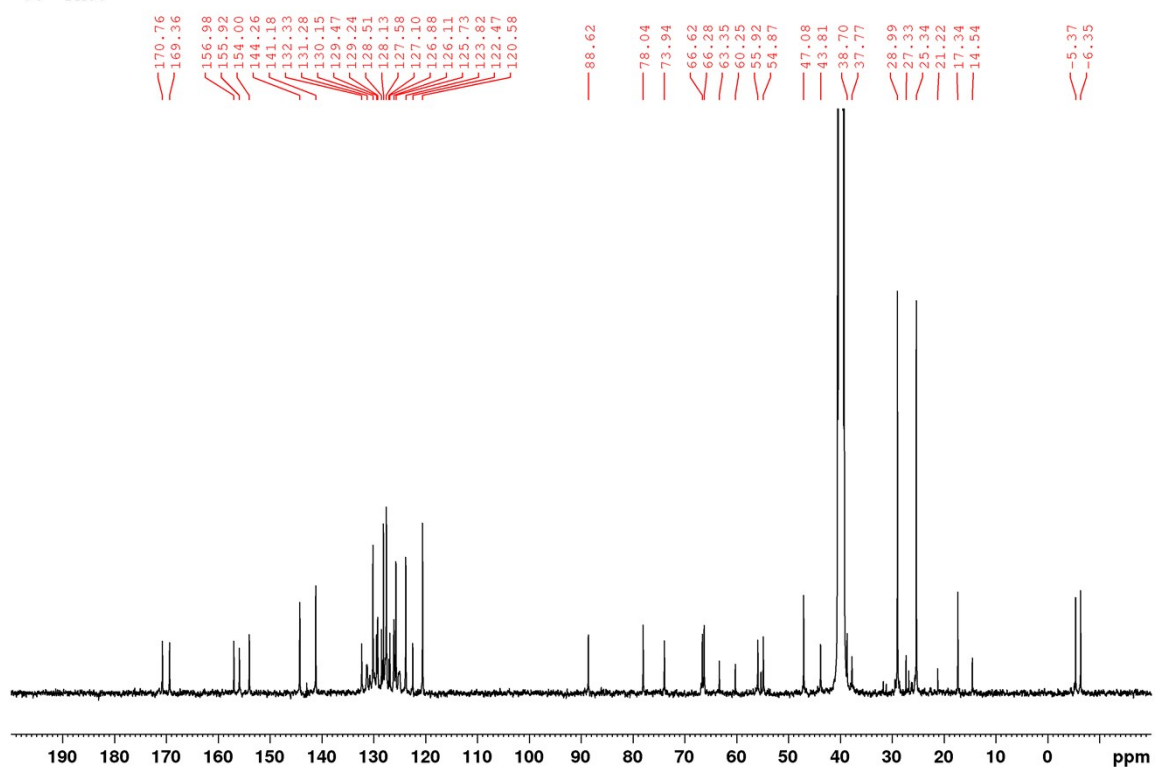


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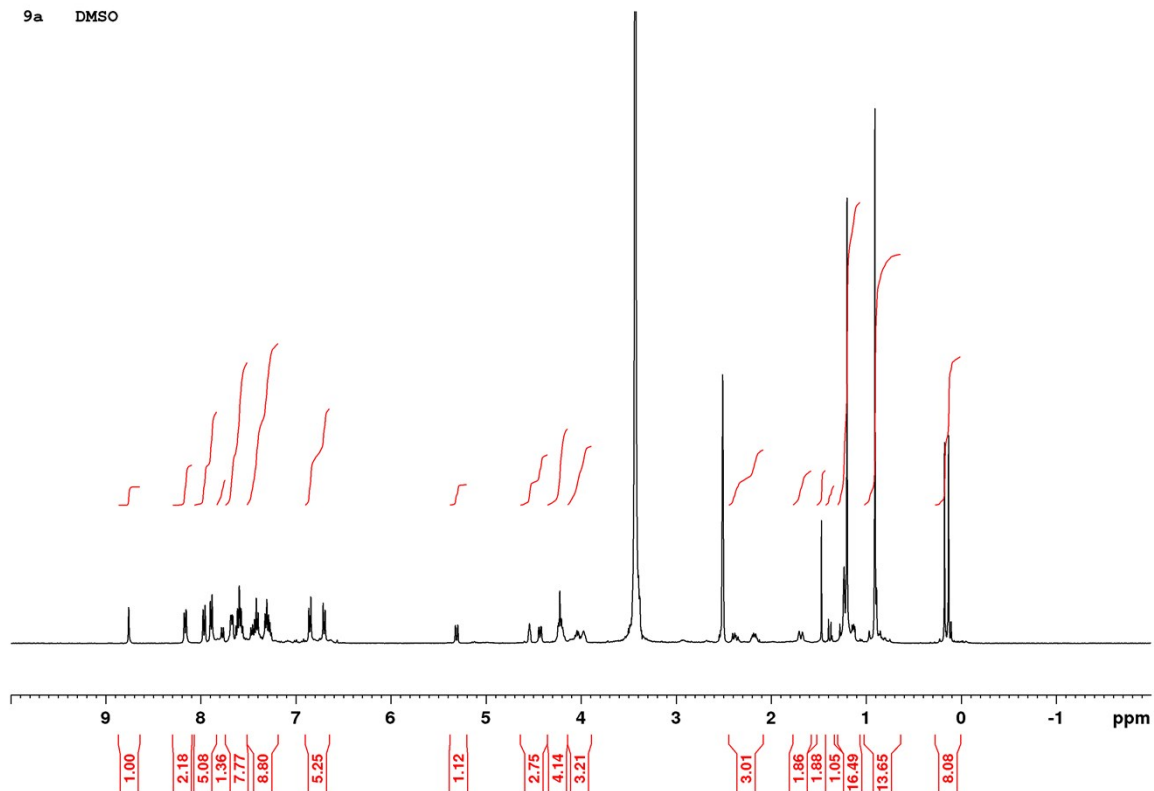


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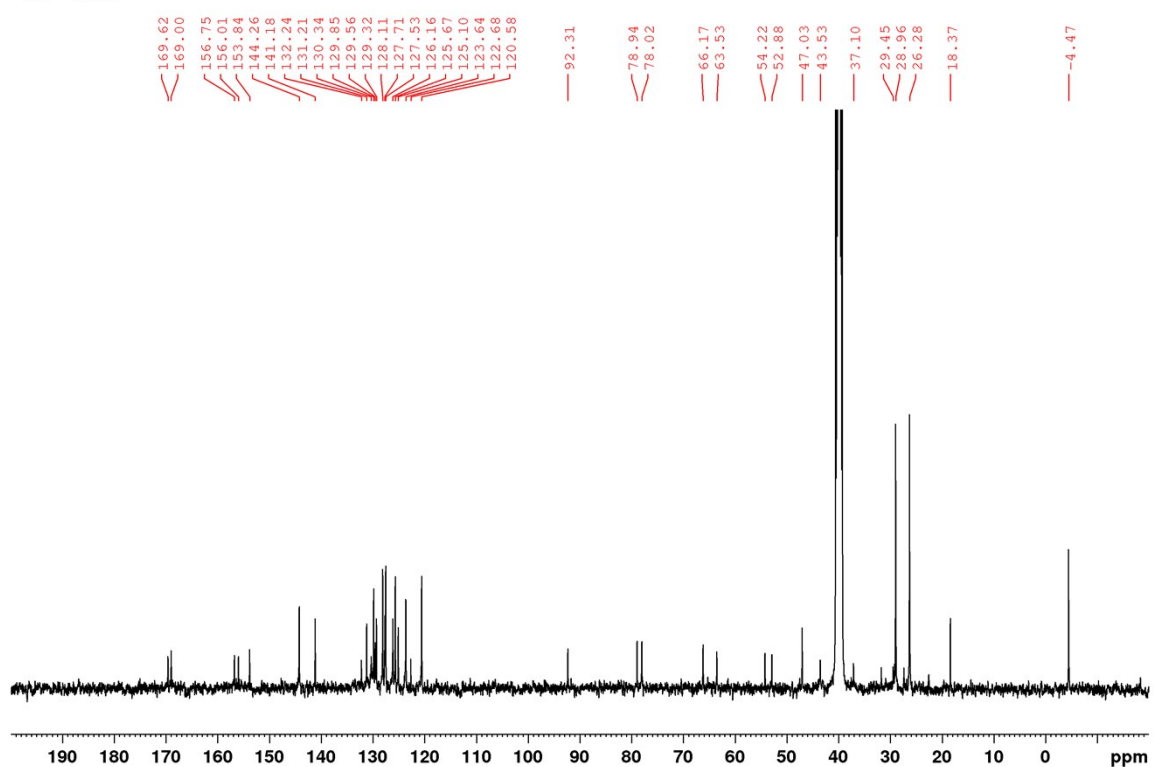


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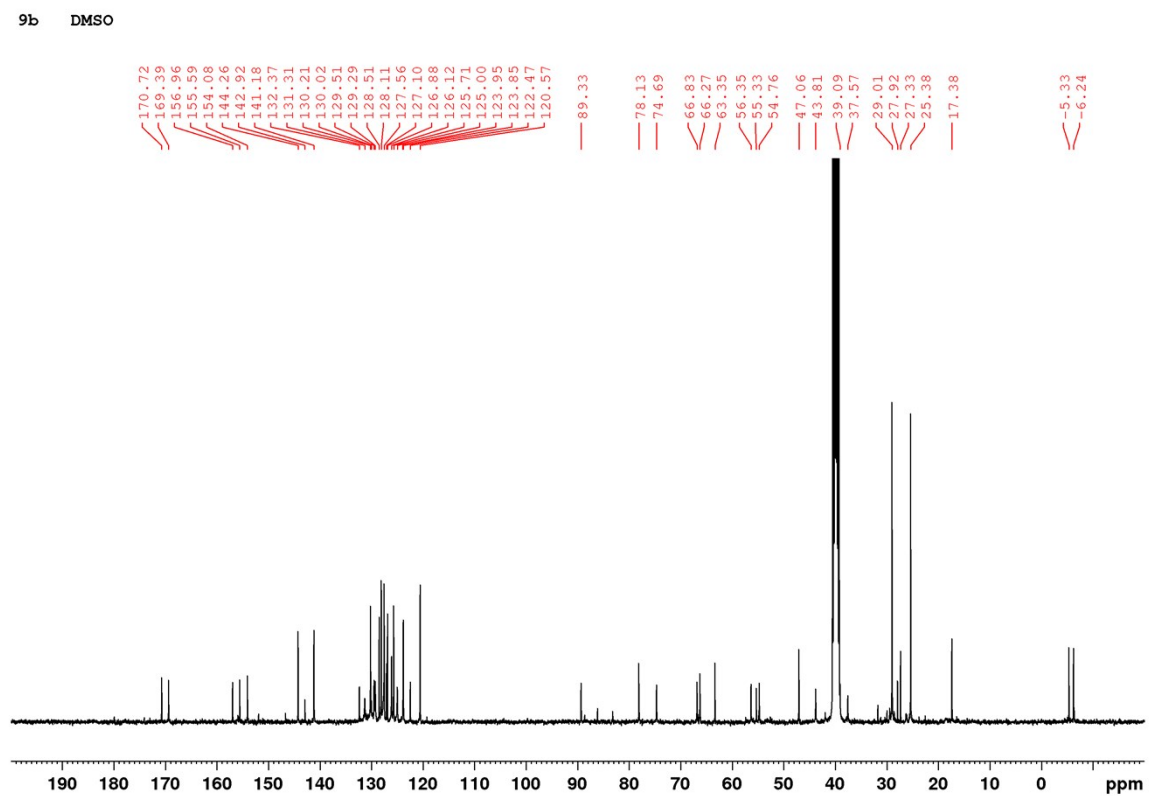
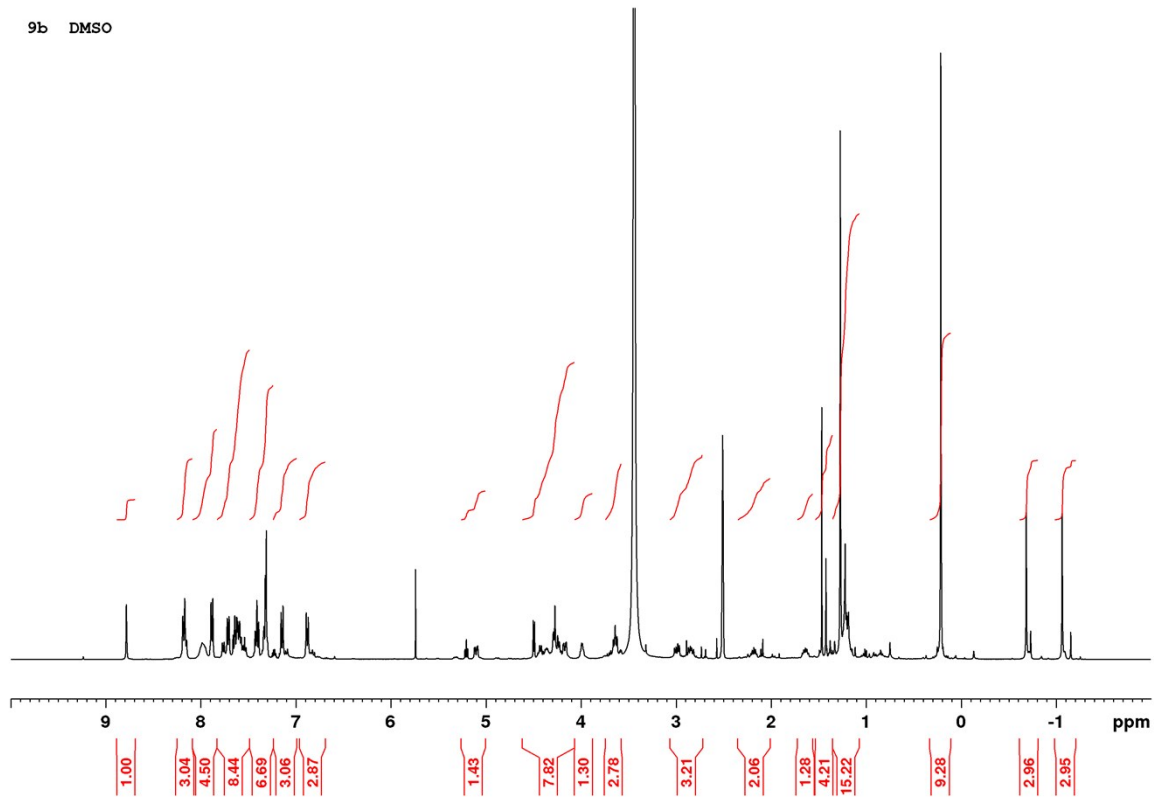
9a DMSO



9a DMSO

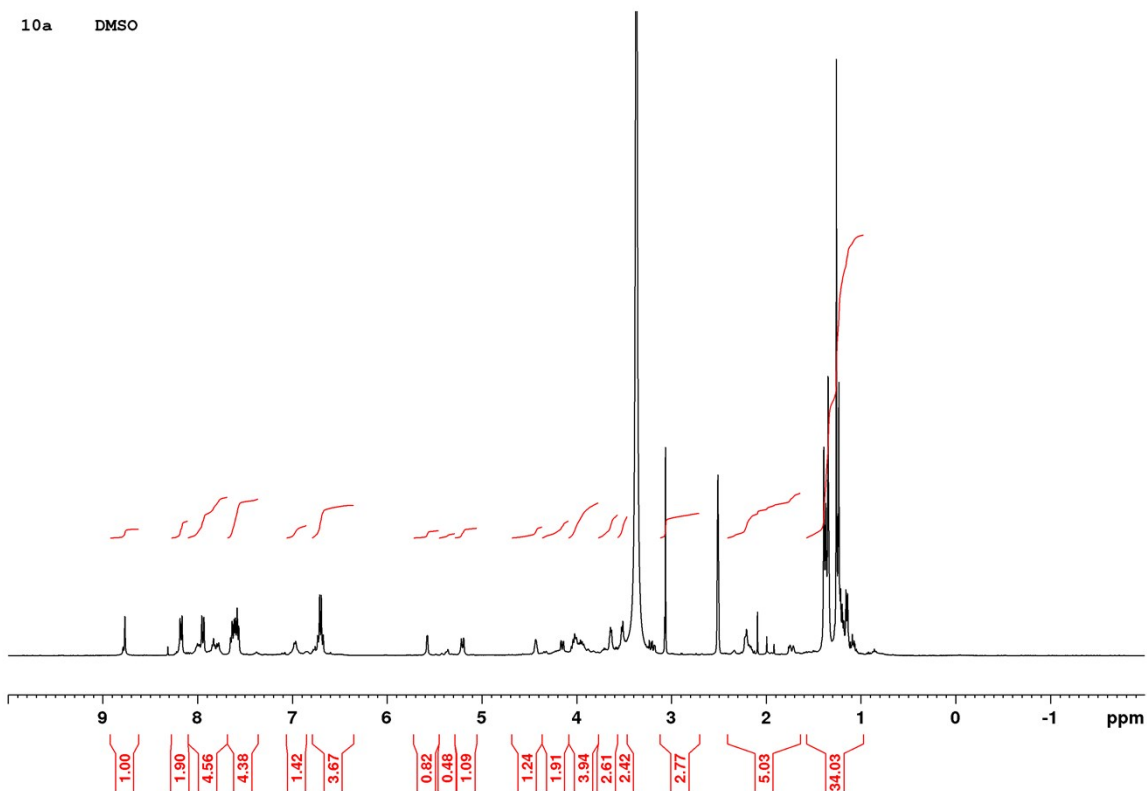


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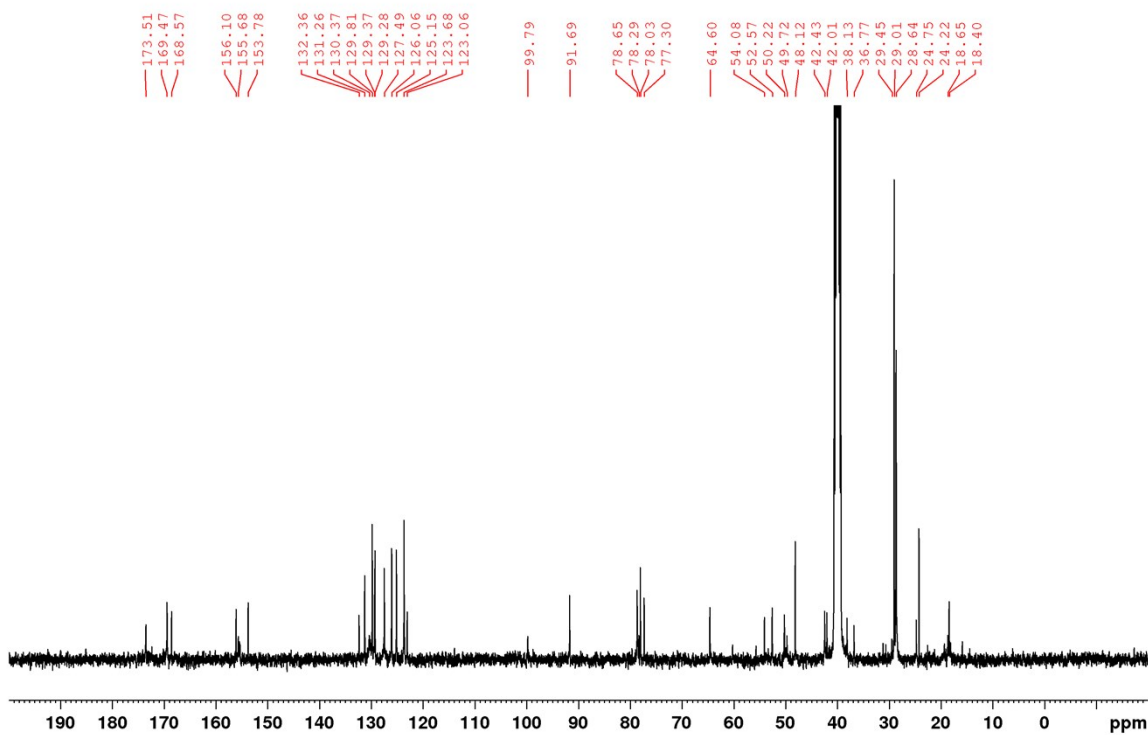


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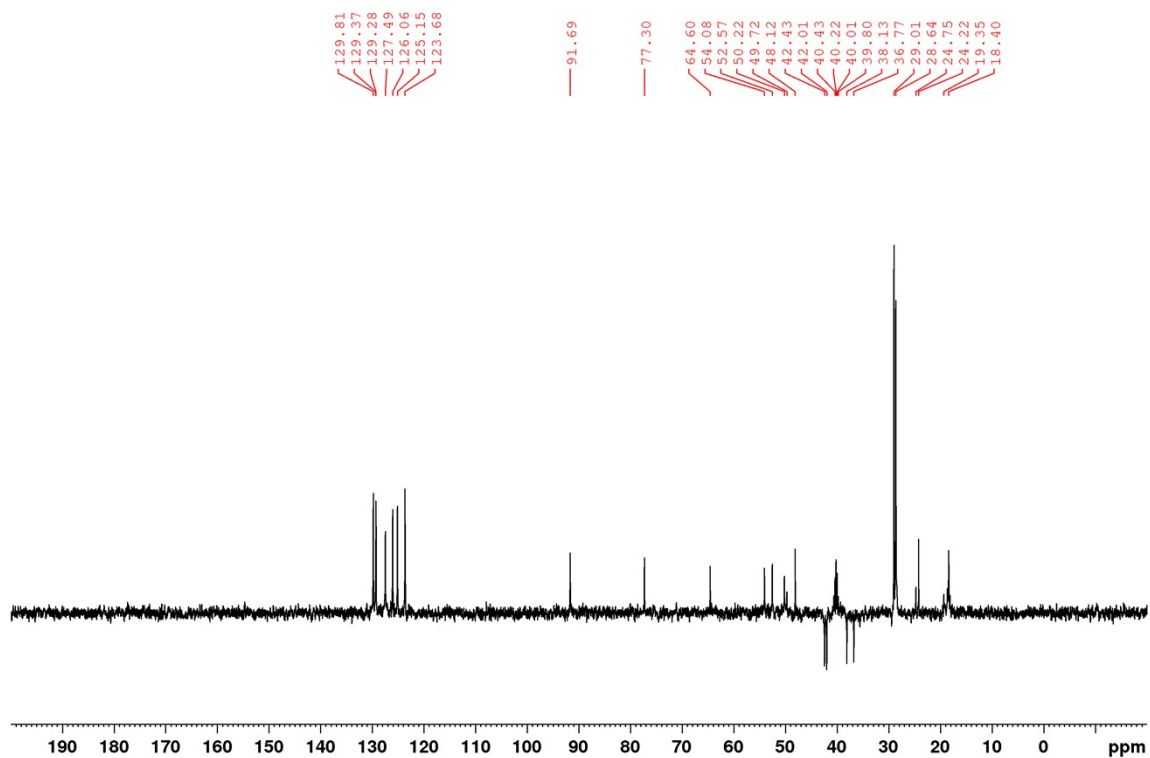
10a DMSO



10a DMSO

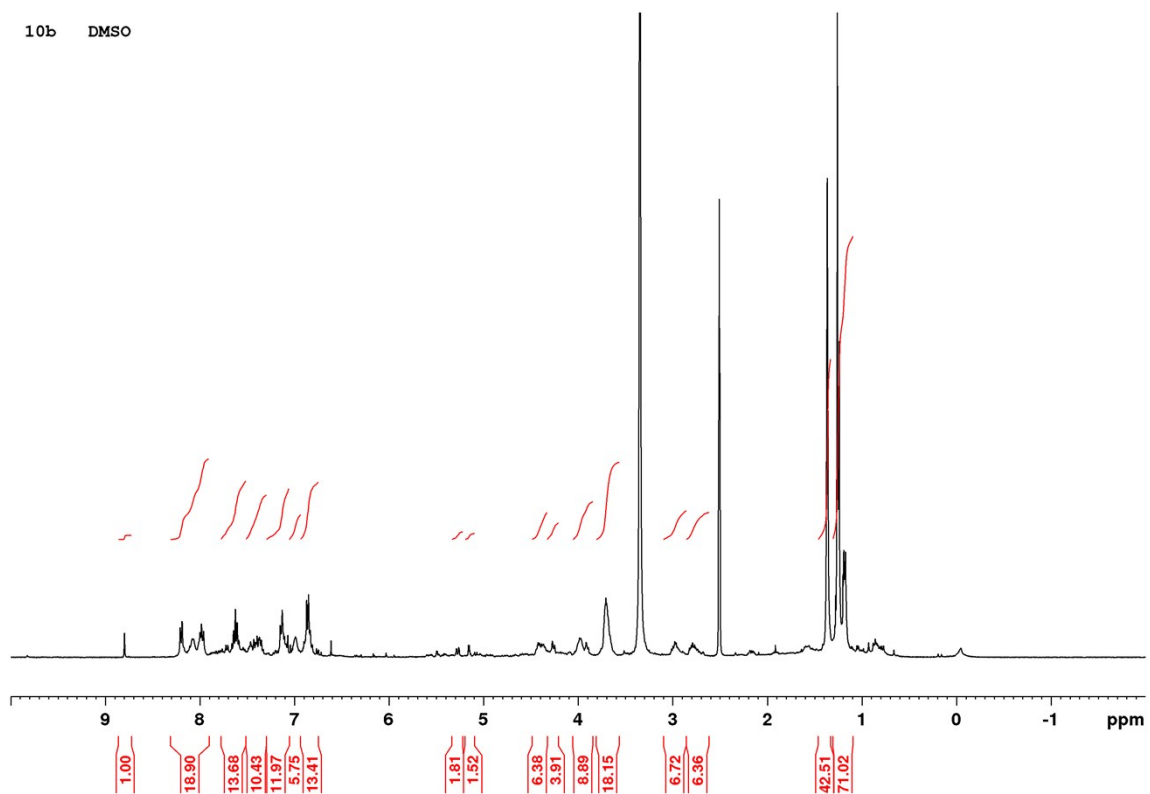


10a DMSO-d6

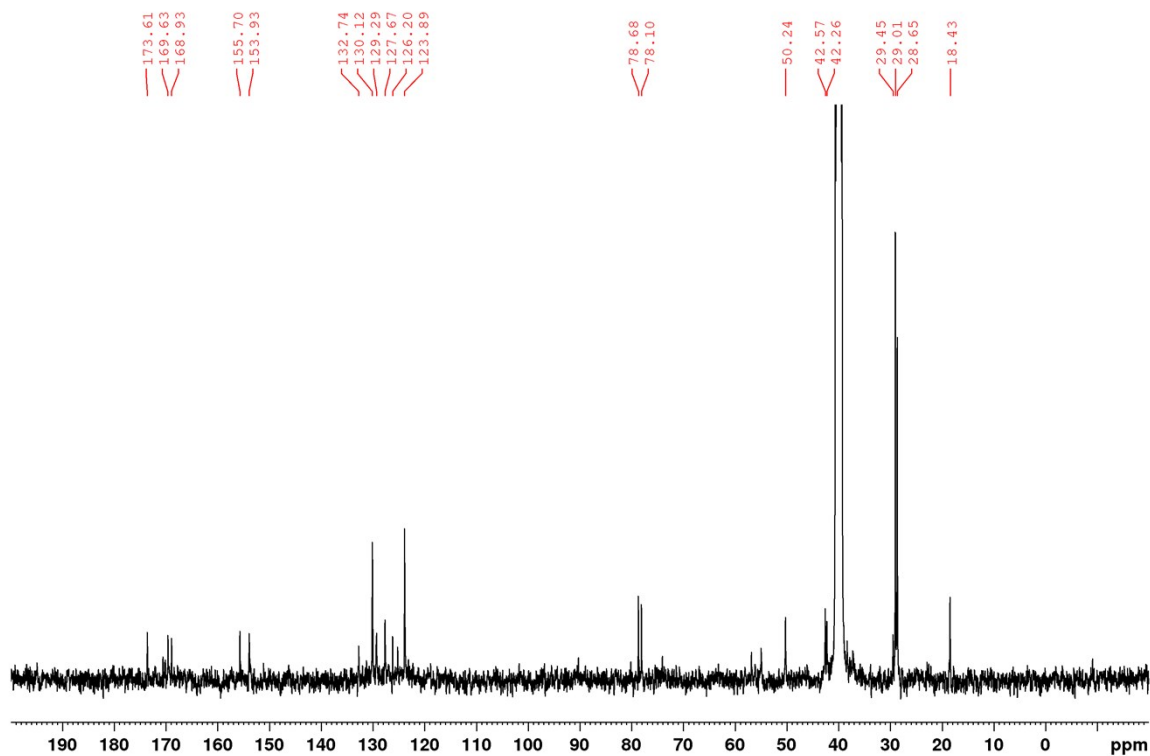


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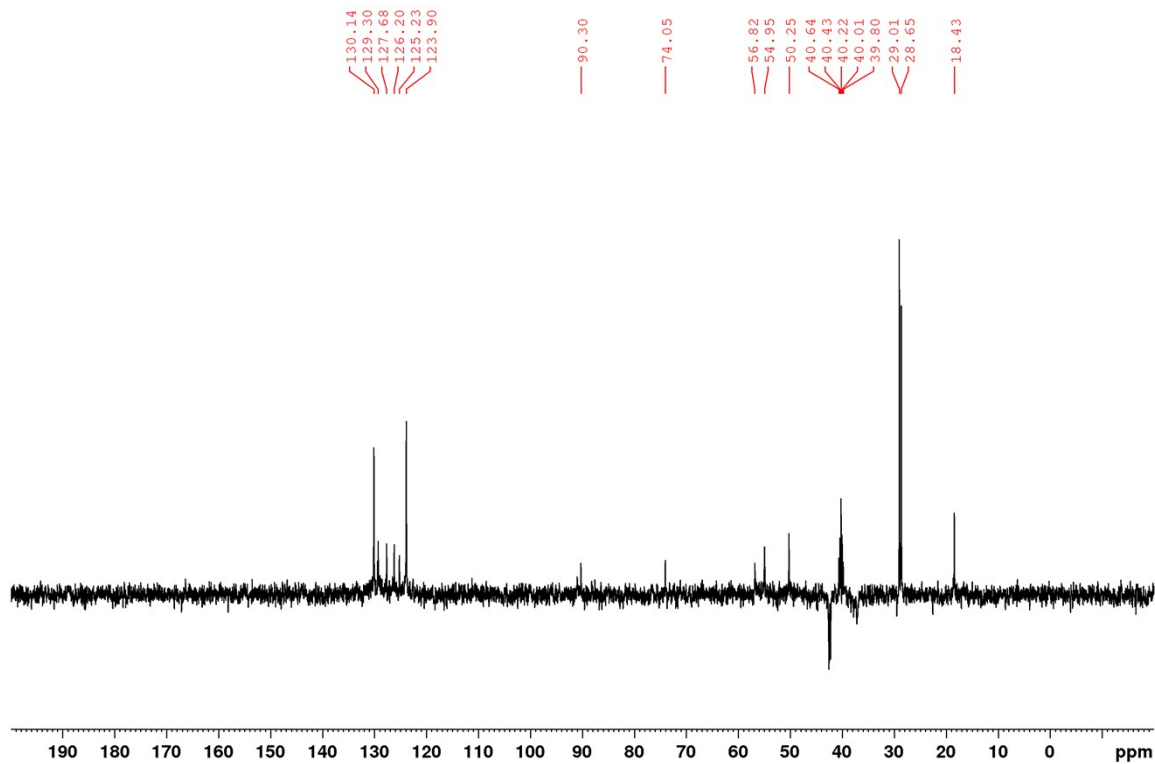
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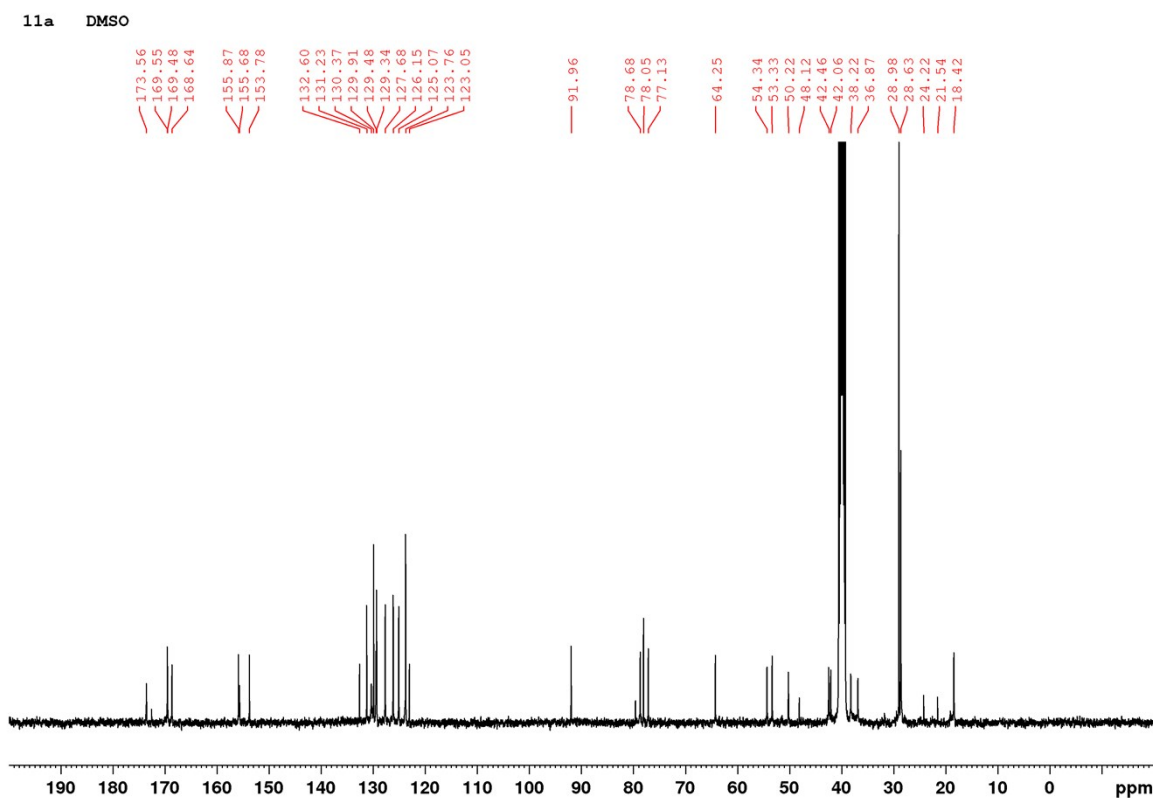
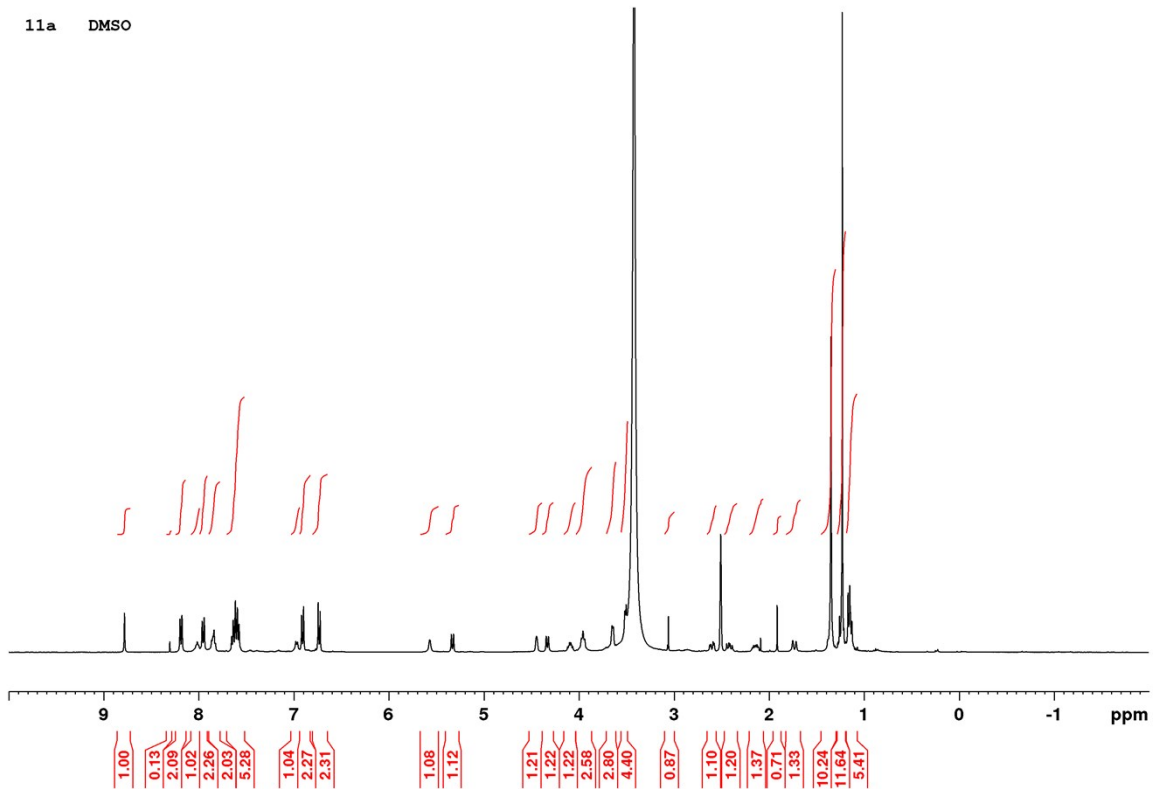
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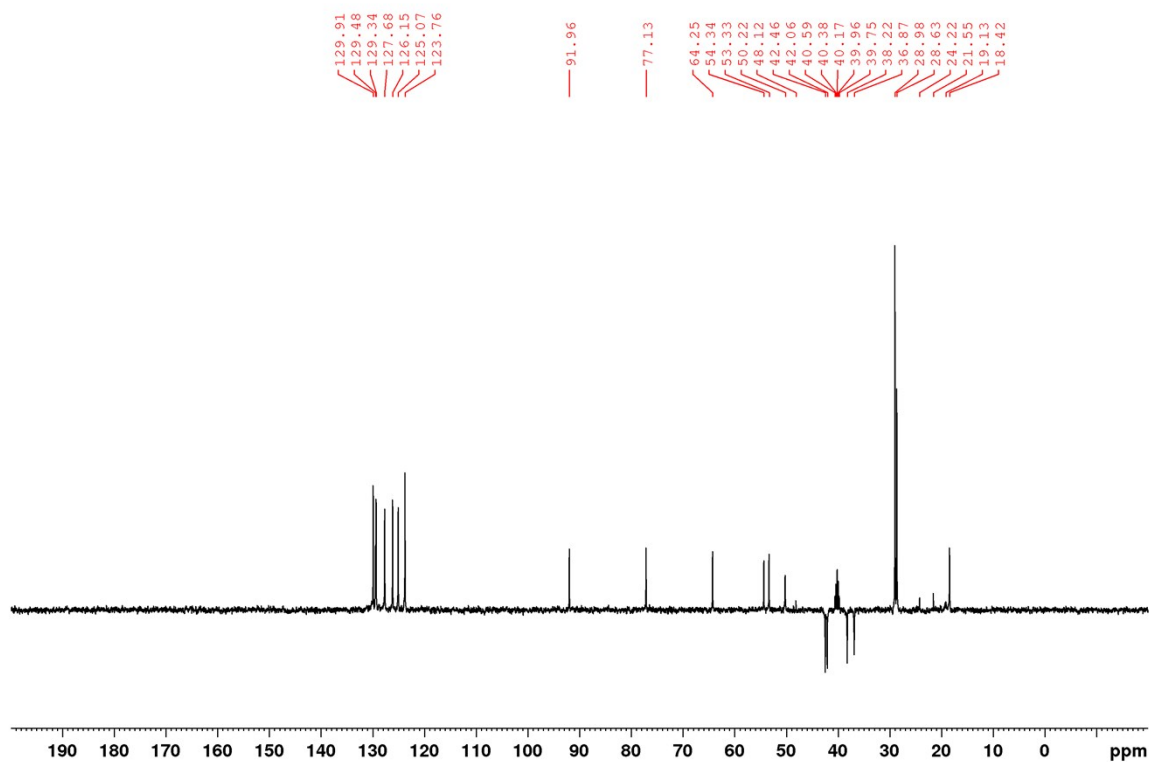
10b DMSO-d6



11a

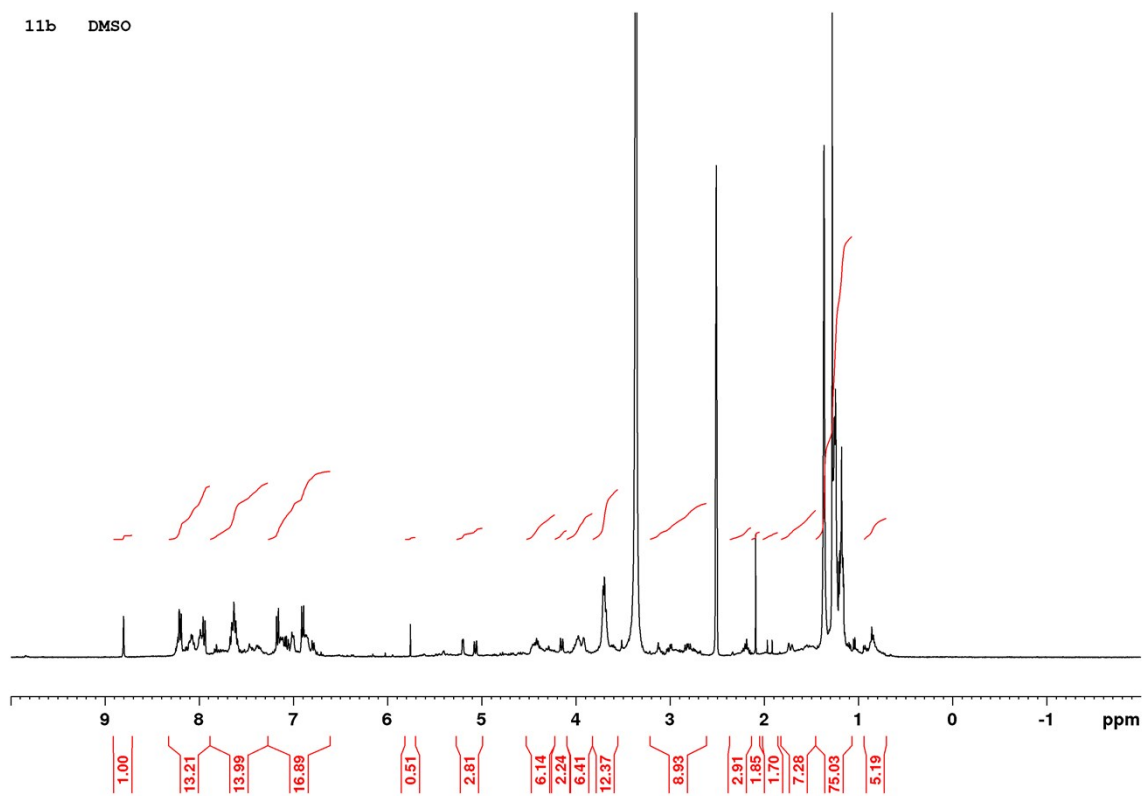


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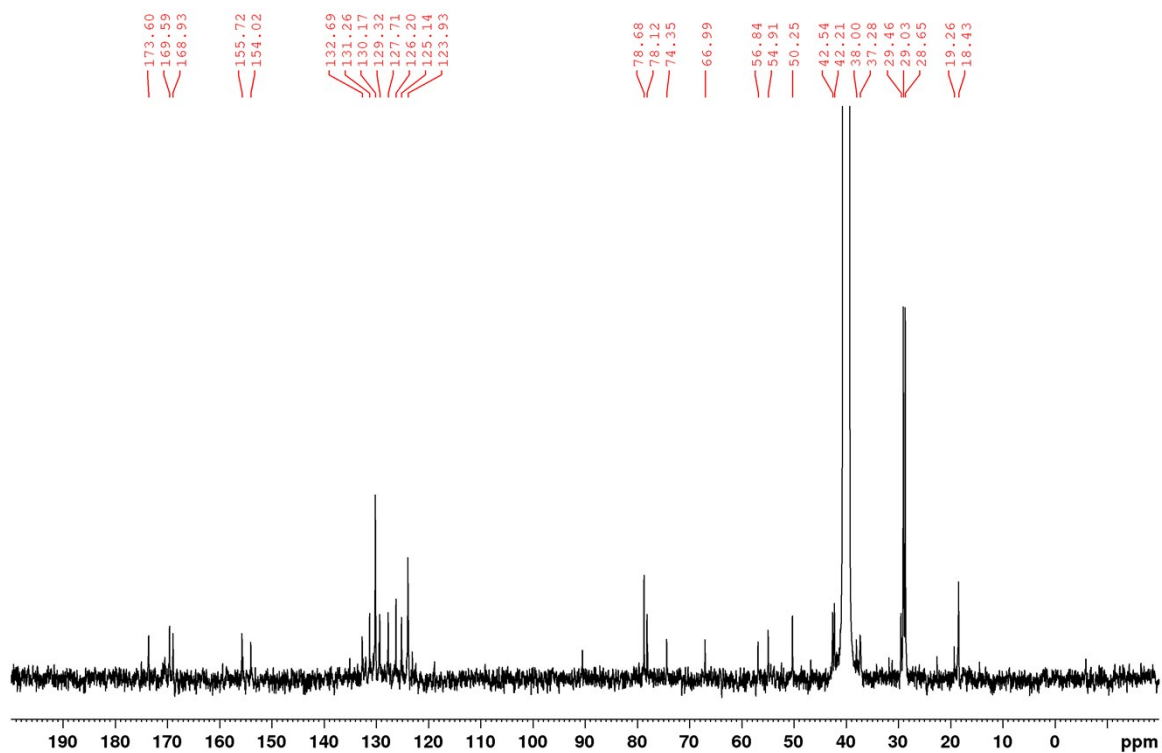


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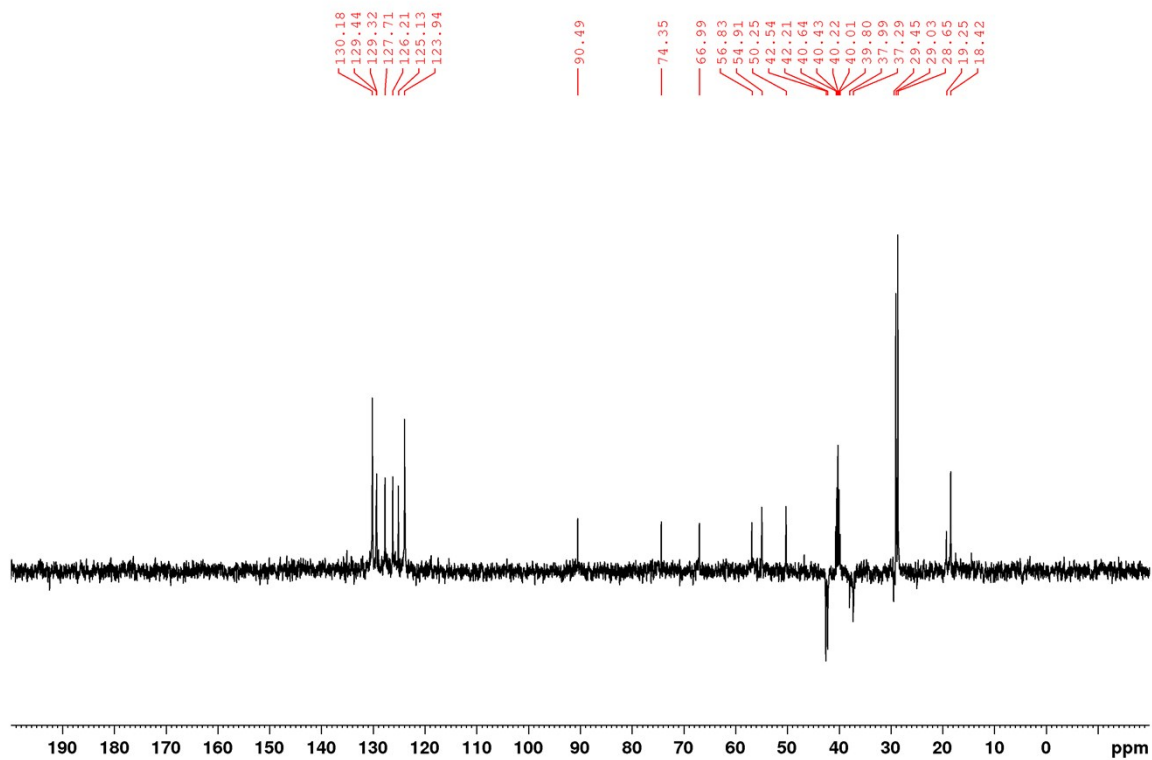
11b DMSO



11b DMSO

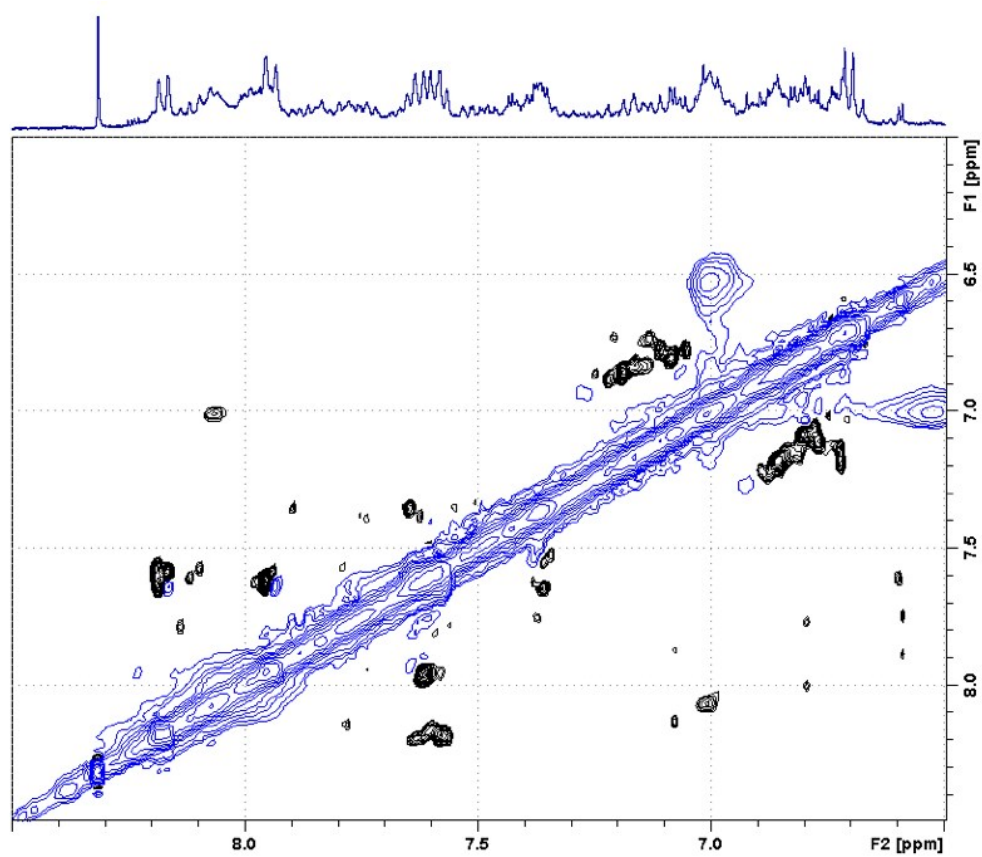
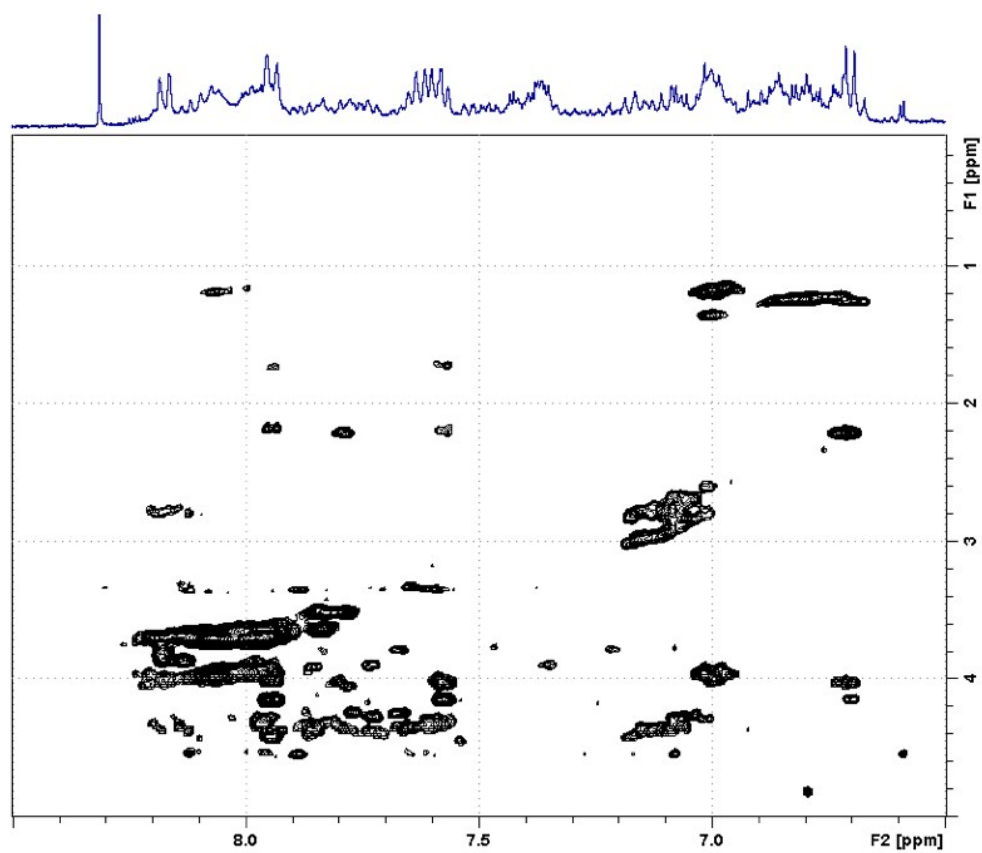


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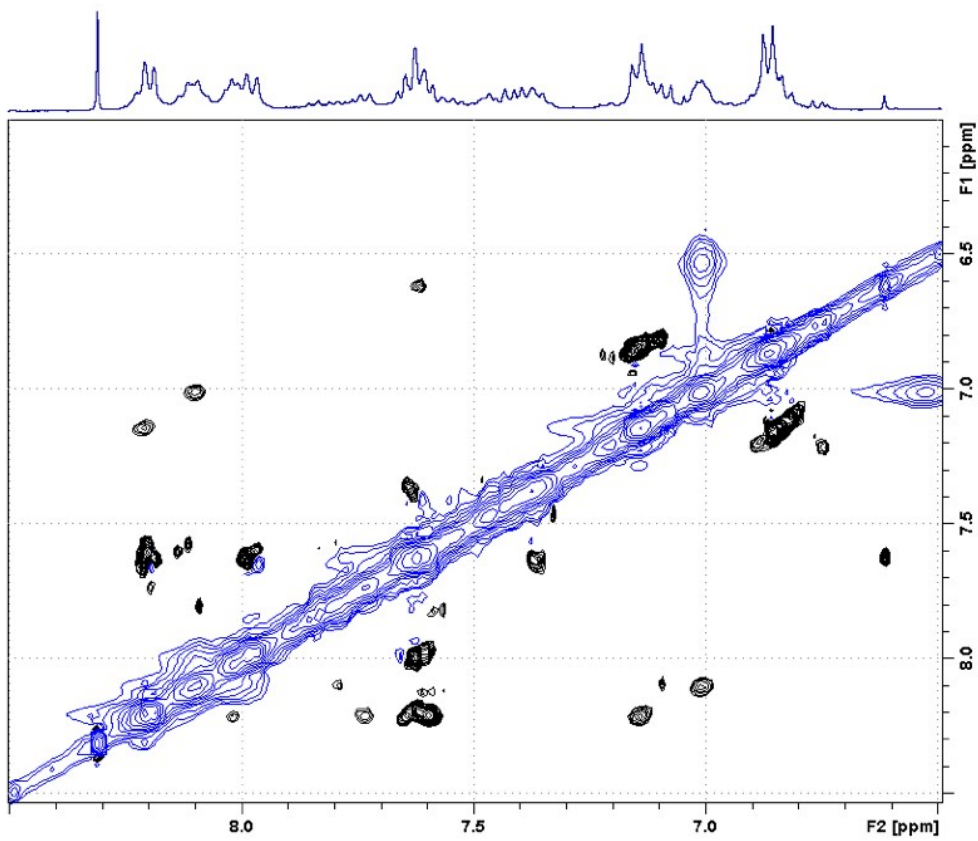
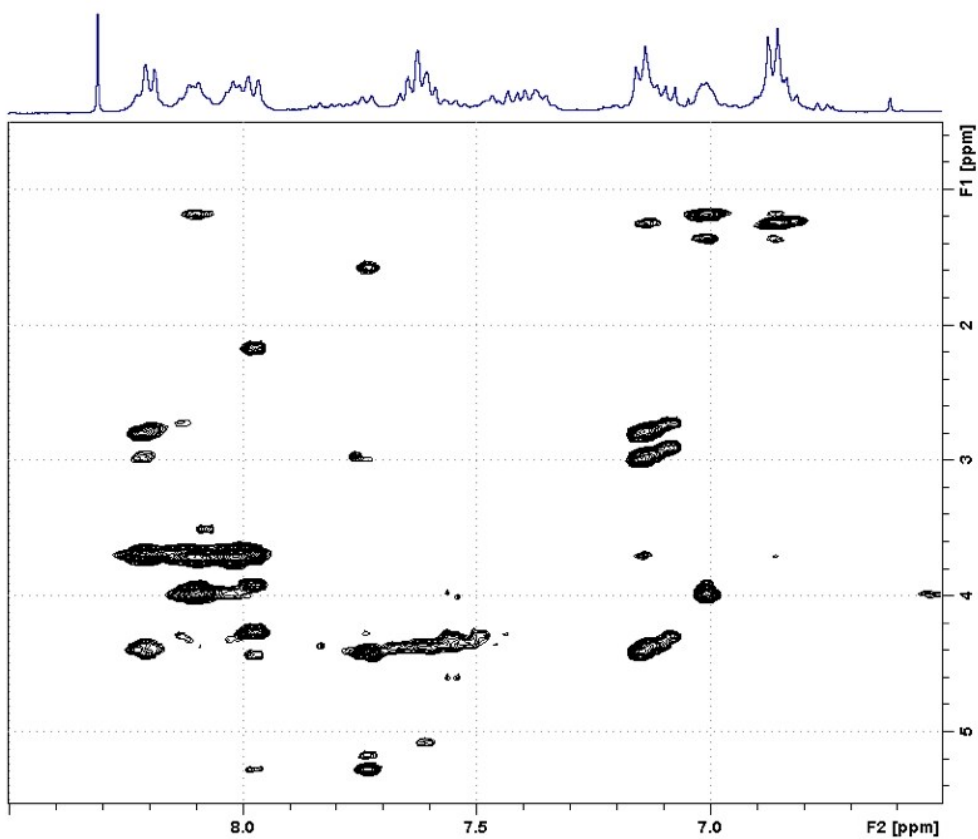


2. ROESY NMR Experiments: Top) $H_{\alpha}H_N$ region; Bottom) H_NH_N region

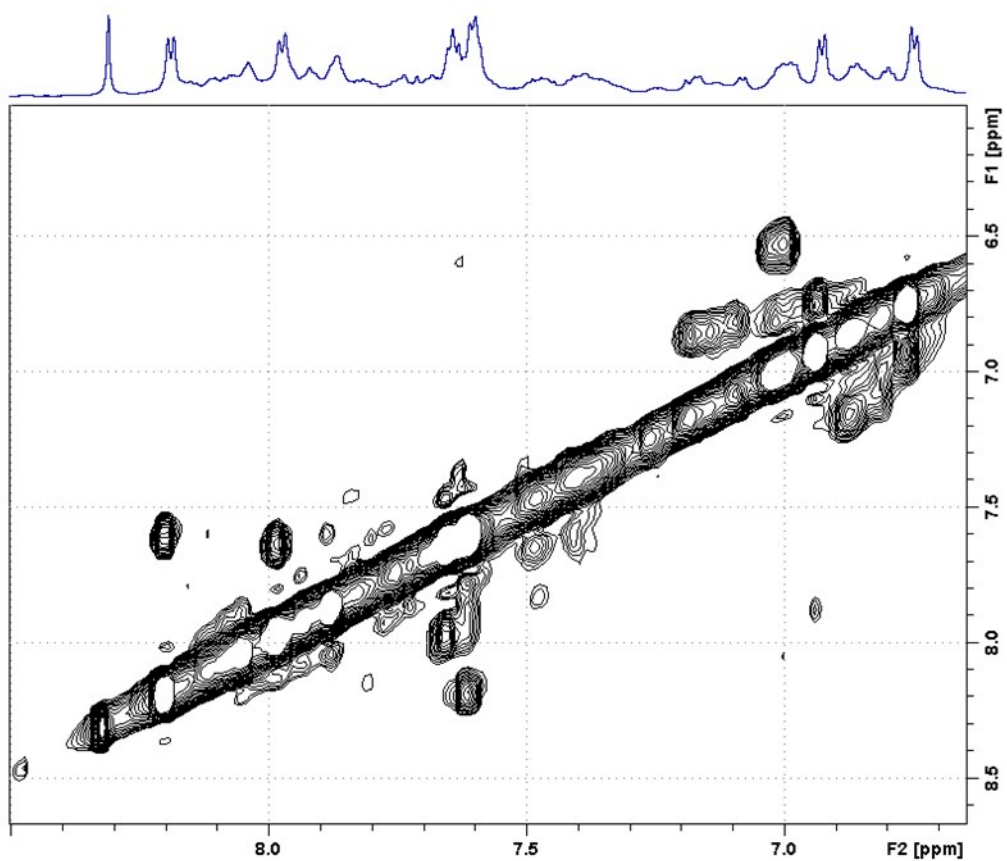
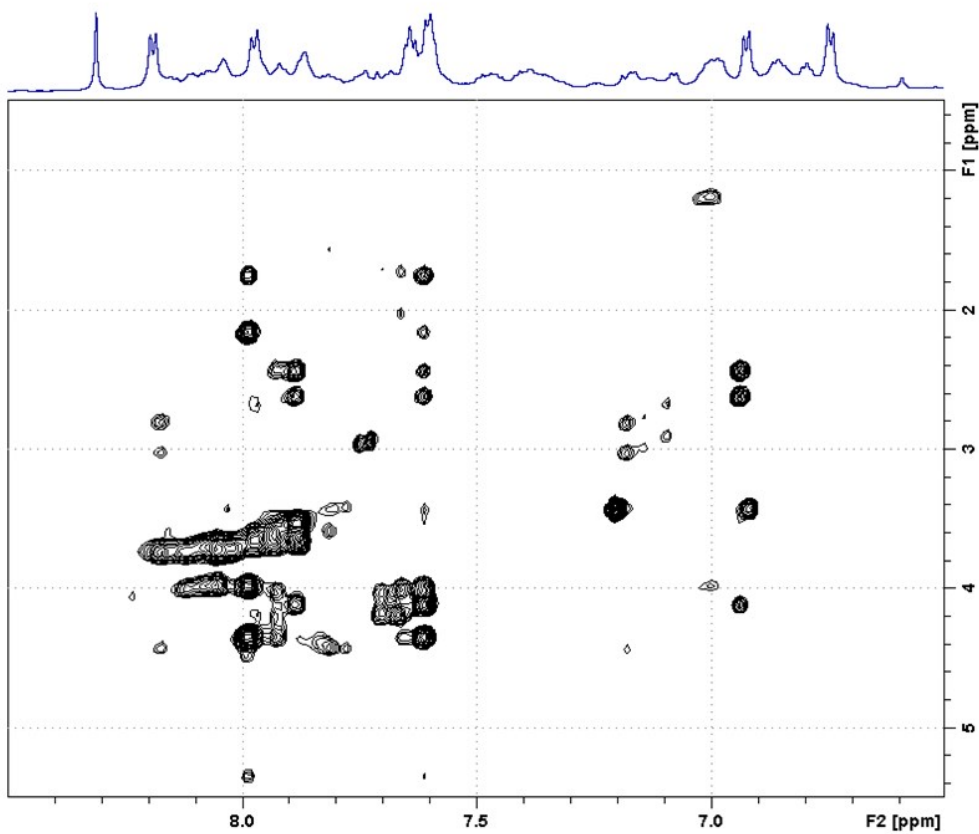
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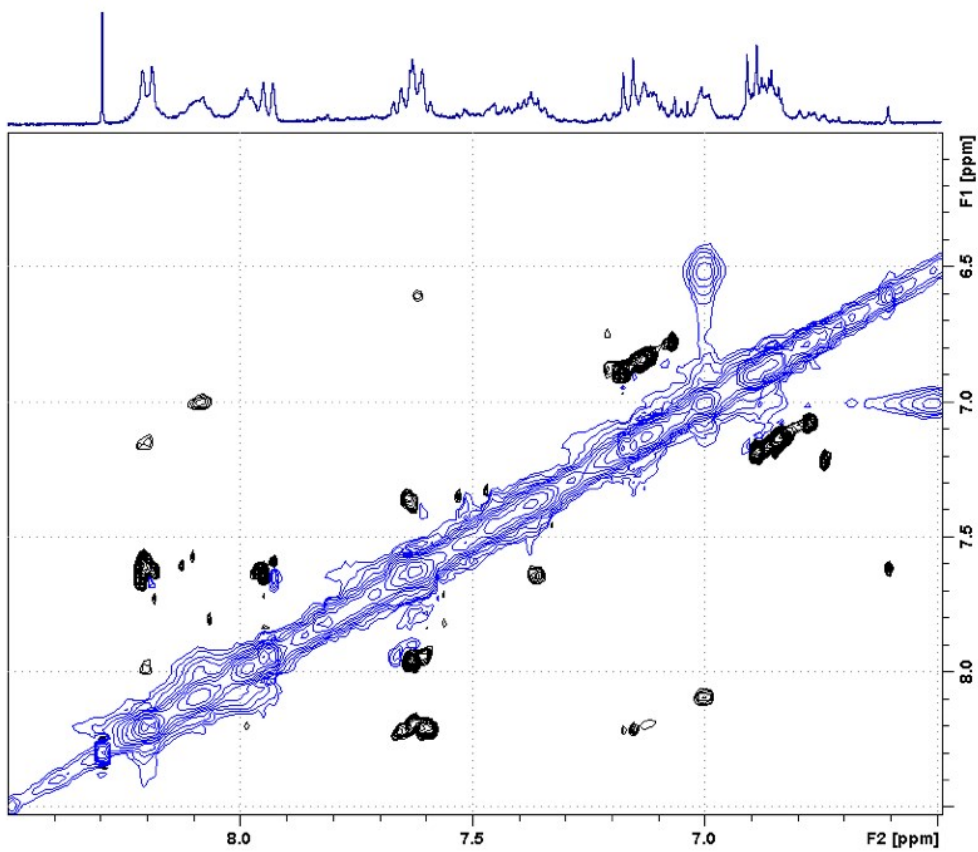
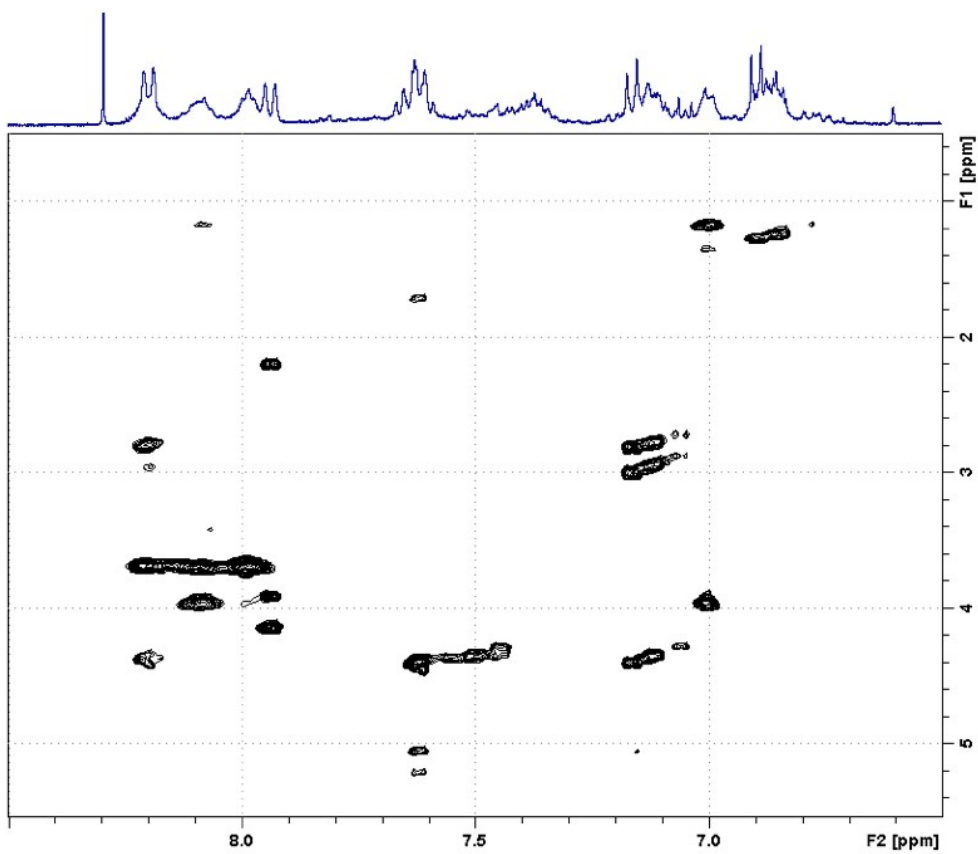
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11a

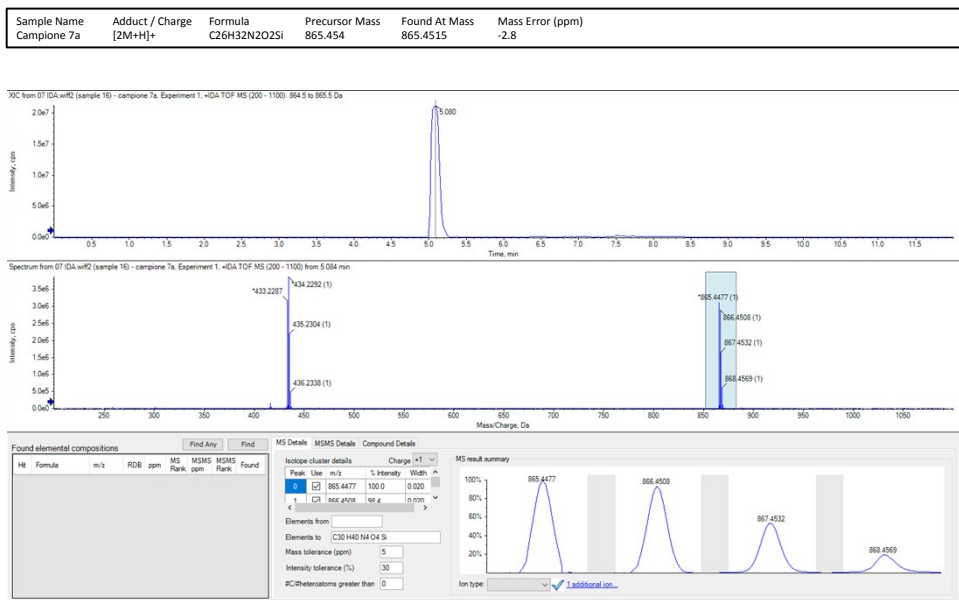


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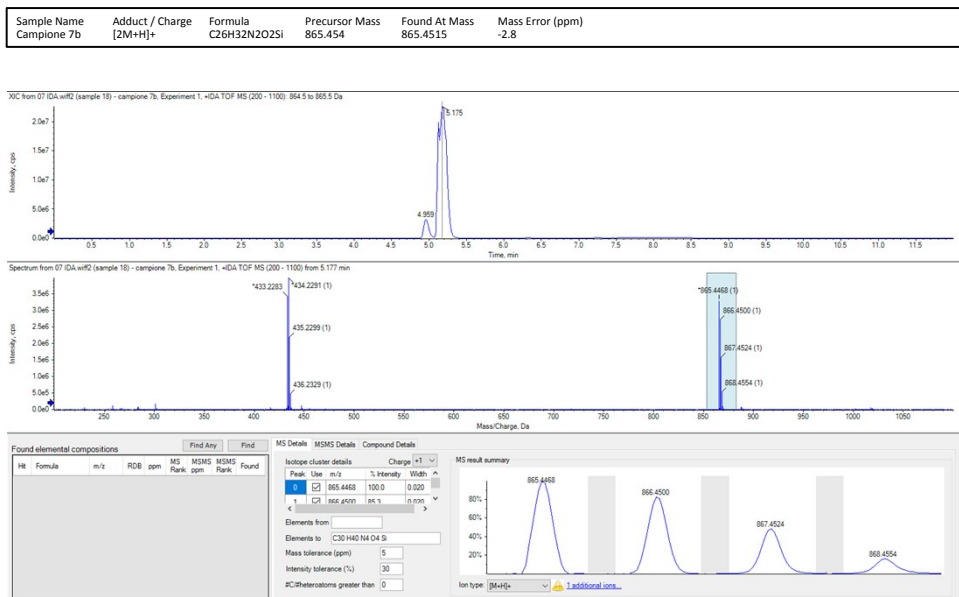


3. HRMS spectra

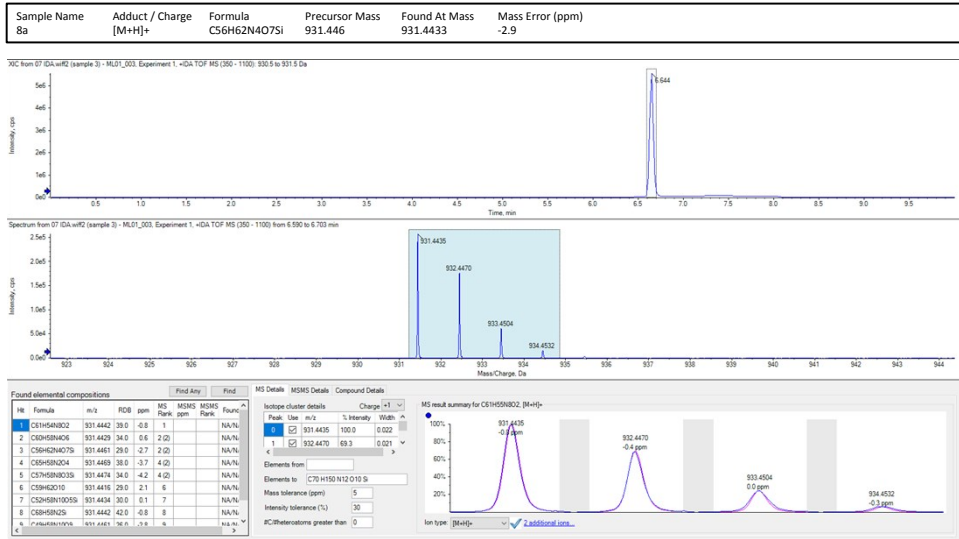
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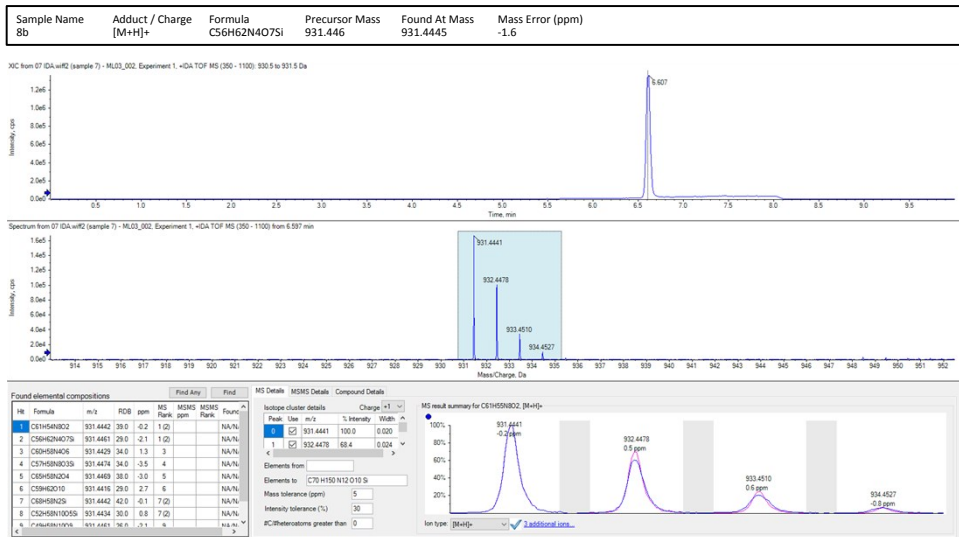
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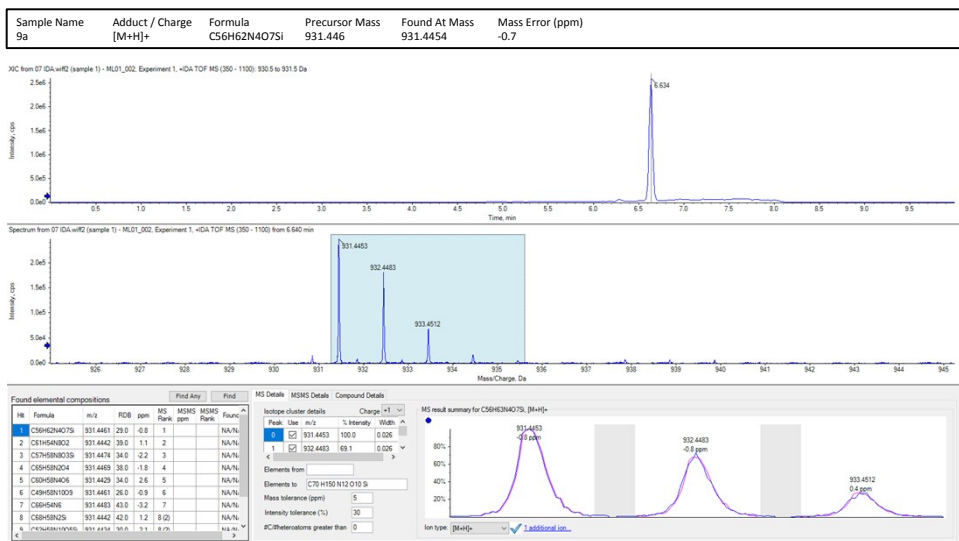
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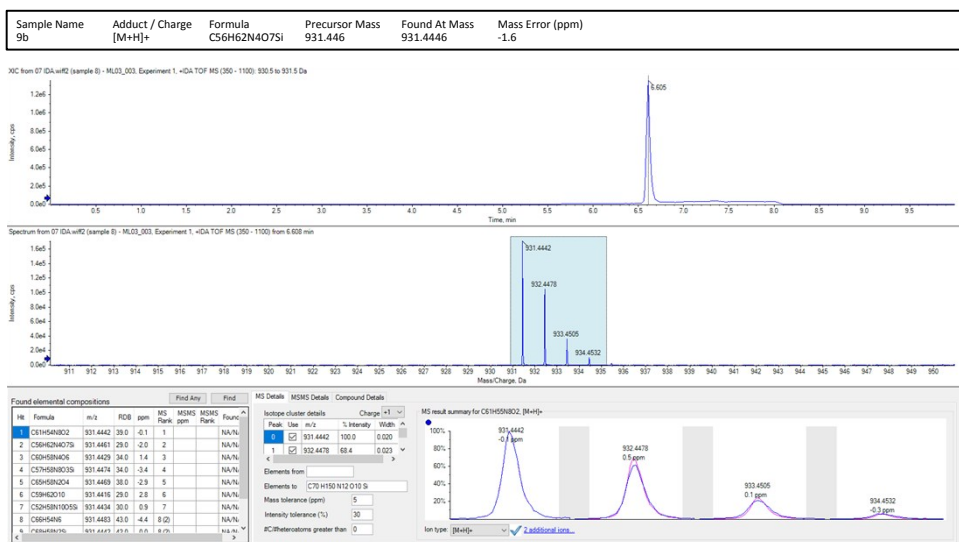
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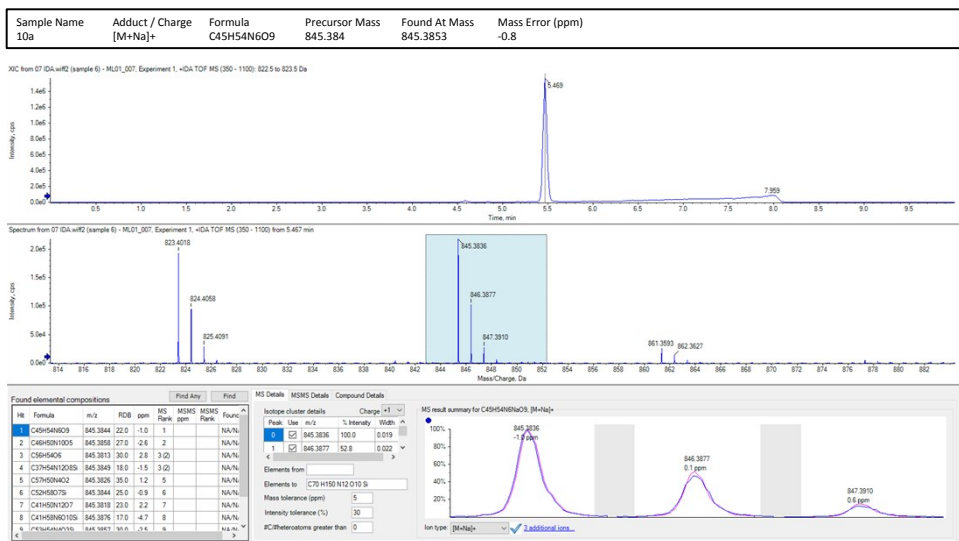
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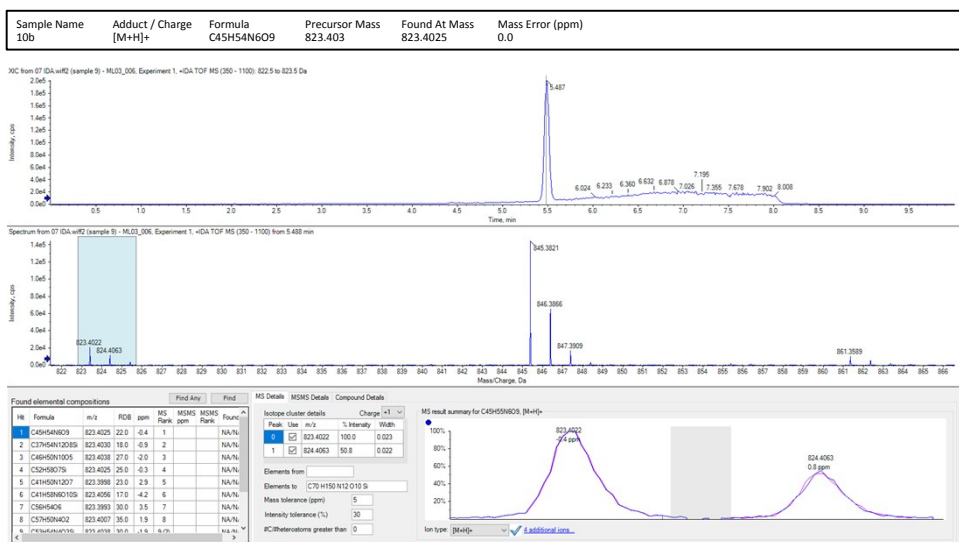
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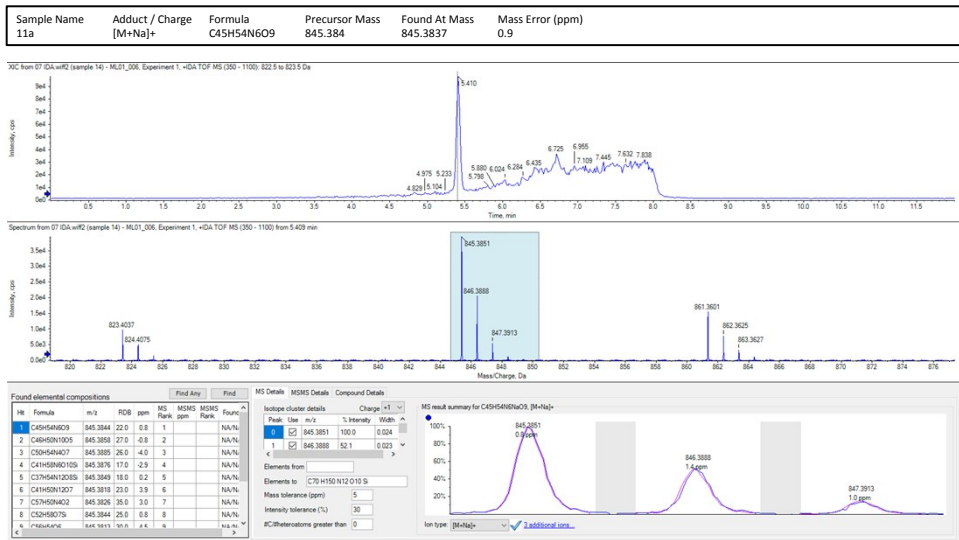
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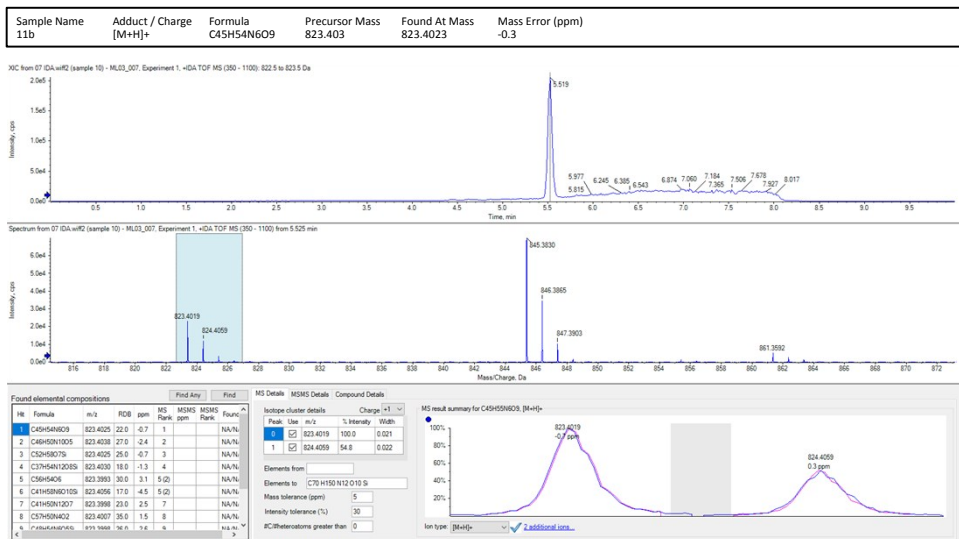
10b



11a



11b



4. Titration Table for Figure 4

10a

% DMSO	1-Nor	2-Tyr	3-Gly	NH2	NHBoc
0	7.05	6.91	7.56	7.31	5.45
2	7.03	6.92	7.58	7.32	5.64
4	7.00	6.96	7.68	7.32	5.76
6	6.95	6.99	7.66	7.32	5.85
8	6.90	7.00	7.63	7.34	5.91
10	6.86	6.98	7.59	7.31	5.95
20	6.75	6.98	7.38	7.29	6.04
30	6.89	7.03	7.21	7.27	6.05
40	6.87	6.94	7.09	7.21	6.08
60	6.68	6.85	6.94	7.13	6.10
80	6.62	6.79	6.85	7.02	6.10
	ppm	ppm	ppm	ppm	ppm

10b

% DMSO	1-Nor	2-Tyr	3-Gly	NH2	NHBoc
0	7.26	7.15	7.71	7.29	5.68
2	7.15	7.25	7.84	7.27	5.72
4	7.10	7.30	7.86	7.24	5.78
6	7.08	7.32	7.84	7.19	5.82
8	7.03	7.33	7.80	7.14	5.87
10	6.99	7.33	7.75	7.09	5.91
20	6.95	7.33	7.54	6.94	6.00
30	6.92	7.34	7.39	6.80	6.02
40	6.86	7.34	7.30	6.74	6.02
60	6.79	7.22	7.18	6.53	5.97
80	6.76	7.19	7.10	6.47	5.96
	ppm	ppm	ppm	ppm	ppm

11a

% DMSO	1-Nor	2-Tyr	3-Gly	NH2	NHBoc
0	6.97	6.71	7.61	7.17	5.45
2	6.97	6.78	7.65	7.00	5.69
4	6.95	6.80	7.58	7.07	5.79
6	6.92	6.81	7.64	7.09	5.86
10	6.87	6.82	7.68	7.11	5.95
20	6.73	6.82	7.61	7.07	6.01
30	6.64	6.81	7.46	7.02	6.01
40	6.60	6.83	7.34	6.99	5.99
60	6.56	6.83	7.14	6.97	5.94
80	6.55	6.85	7.03	6.87	5.92
	ppm	ppm	ppm	ppm	ppm

11b

% DMSO	1-Nor	2-Tyr	3-Gly	NH2	NHBoc
0	7.29	7.20	7.76	7.44	5.52
2	7.23	7.27	7.80	7.42	5.61
4	7.21	7.29	7.81	7.39	5.66
6	7.18	7.31	7.80	7.35	5.74
8	7.14	7.33	7.78	7.31	5.81
10	7.10	7.34	7.74	7.27	5.86
20	6.90	7.35	7.54	7.25	5.99
30	6.77	7.31	7.35	7.16	6.01
40	6.68	7.30	7.30	7.01	5.99
60	6.61	7.22	7.07	6.95	5.97
80	6.58	7.09	6.99	6.99	5.96
	ppm	ppm	ppm	ppm	ppm