

SUPPORTING INFORMATION

Title: Highly Regioselective Rhenium-Catalyzed Hydrosilylation of Styrenes

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Ref. No.: O200600555

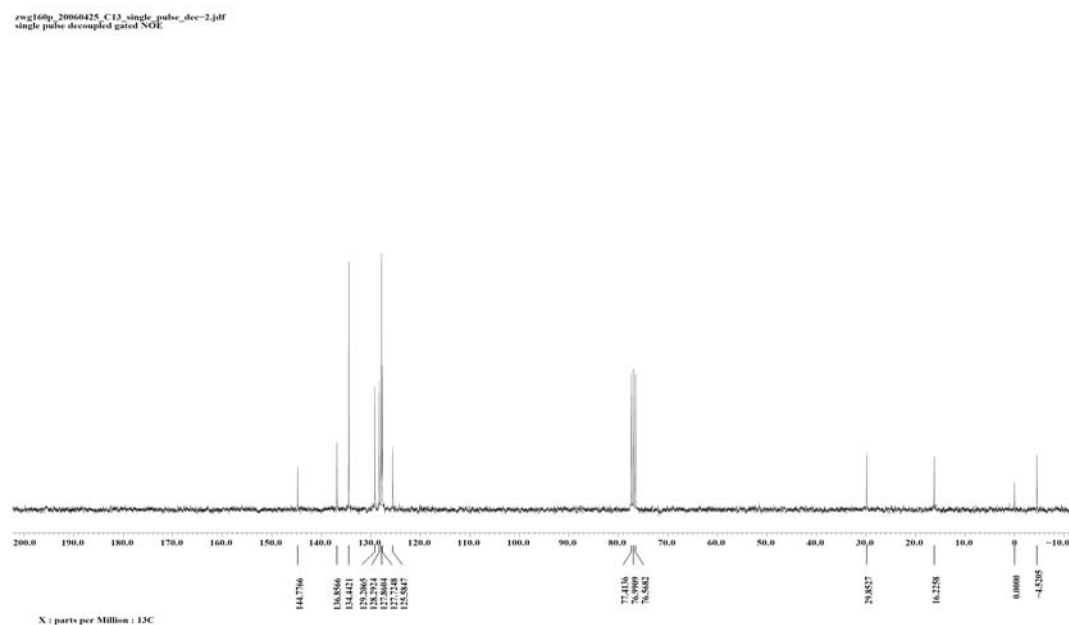
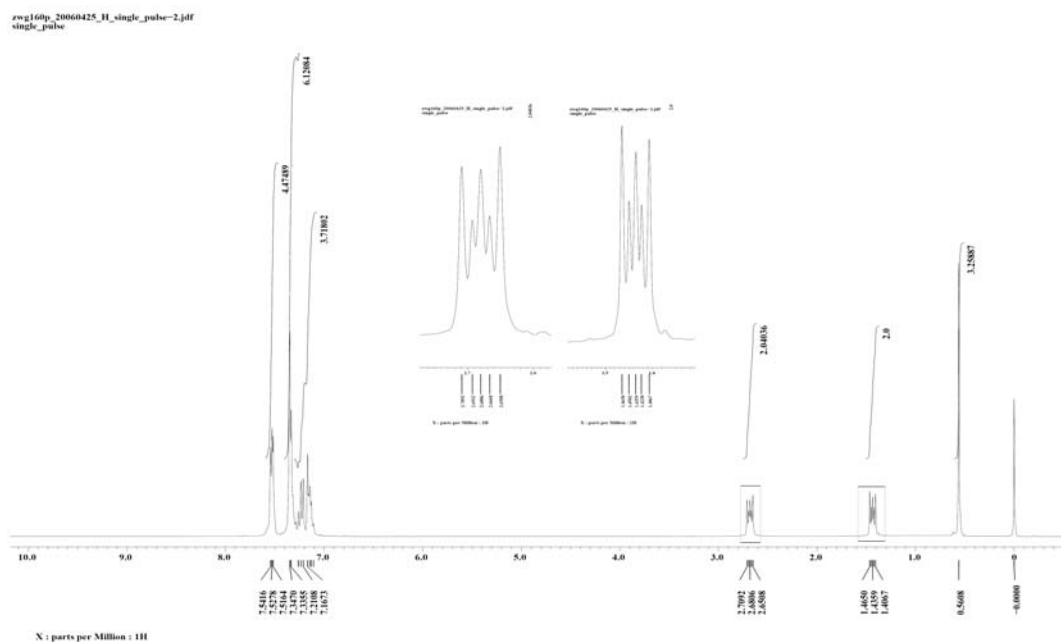
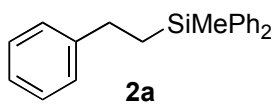
1. Spectroscopic data of 2a and 2b

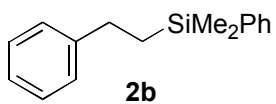
Methyldiphenyl(2-phenylethyl)silane **2a**^[1]: ¹H NMR (300 MHz, CDCl₃) δ 7.58-7.12 (m, 15H), 2.71-2.65 (m AA'BB', 2H), 1.46-1.41 (m AA'BB', 2H), 0.56 (s, 3H); ¹³C NMR (75 MHz, CDCl₃) δ 144.8, δ 136.9, 134.4, 129.2, 128.3, 127.8, 127.7, 125.6, 29.8, 16.2, -4.52; GCMS *m/z* (% rel. inten.) 302 (M⁺, 0.1), 287 (5), 224 (94), 197 (100), 183 (23), 165 (13), 105 (37), 91 (10), 77 (10).

Dimethyldiphenyl(2-phenylethyl)silane **2b**^[1]: ¹H NMR (300 MHz, CDCl₃) δ 7.58-7.10 (m, 10H), 2.66-2.60 (m AA'BB', 2H), 1.15-1.09 (m AA'BB', 2H), 0.28 (s, 6H); ¹³C NMR (75 MHz, CDCl₃) δ 144.9, 139.0, 133.5, 128.9, 128.2, 127.8, 127.7, 125.5, 29.9, 17.7, -3.11; GCMS *m/z* (% rel. inten.) 240 (M⁺, 0.1), 225 (16), 197 (7), 162 (60), 147 (12), 135 (100), 121 (37), 105 (14), 91 (7), 77(4).

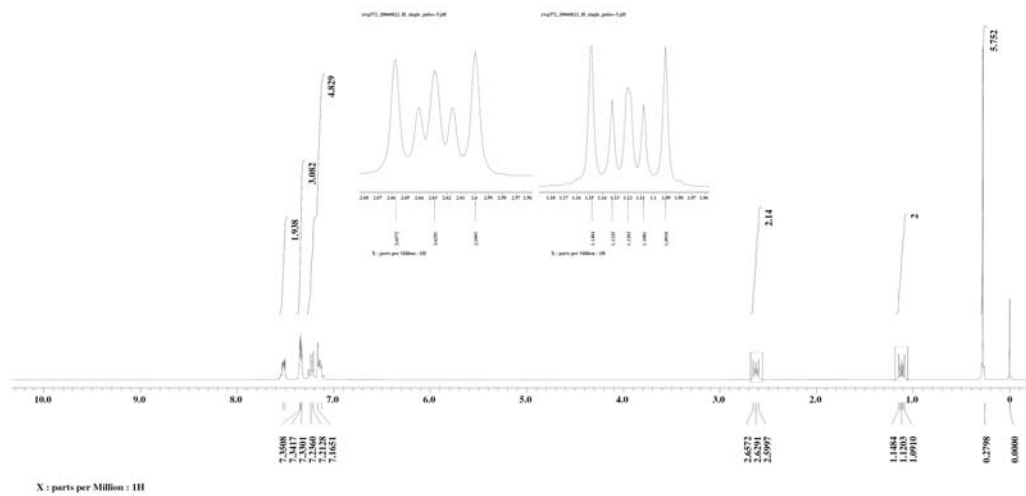
[1] M. Rubin, T. Schwier, V. Gevorgyan, *J. Org. Chem.* **2002**, 67, 1936-1940 and references therein.

2. Copies of ¹H NMR and ¹³C NMR spectra for compounds 2a ~ n

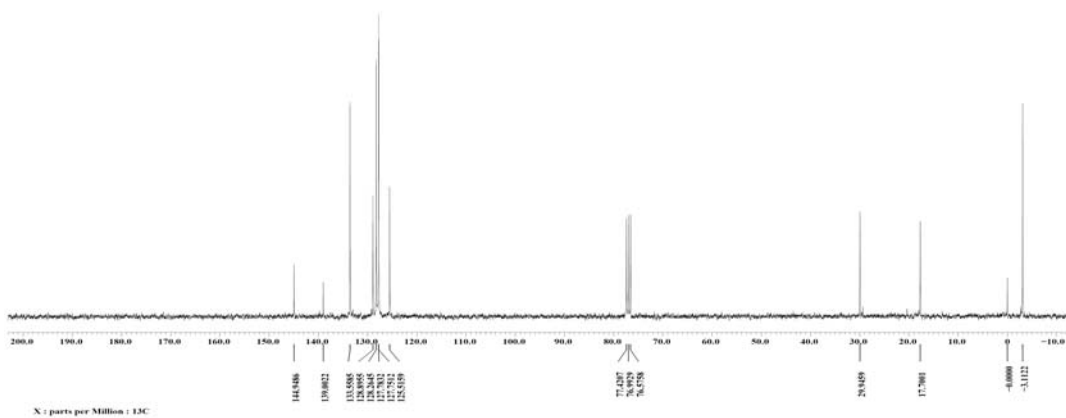




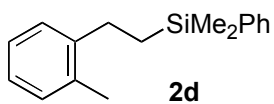
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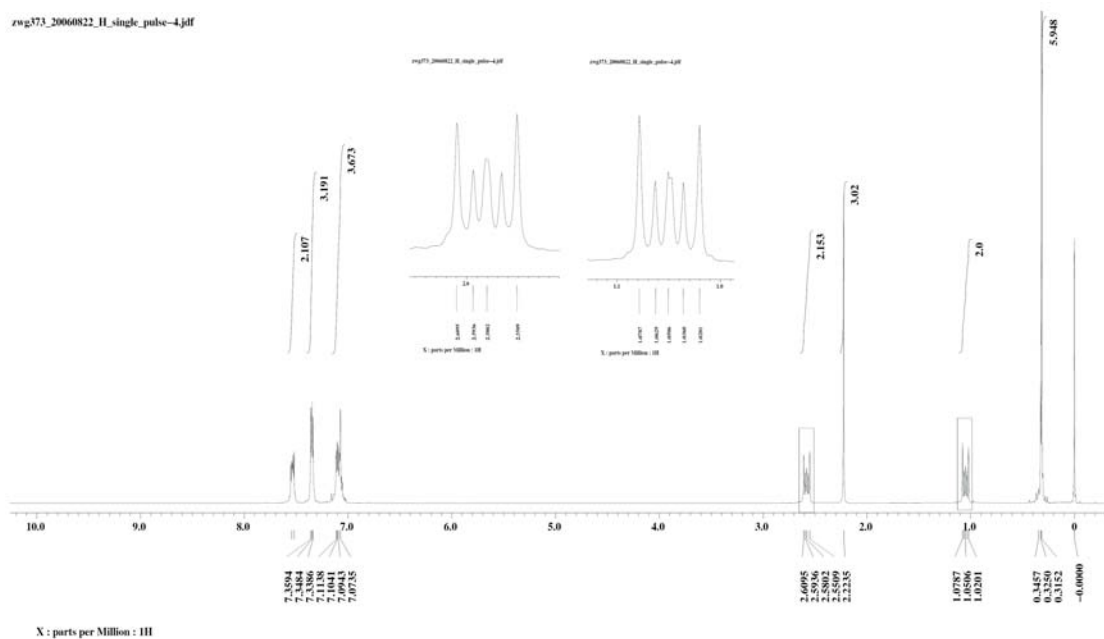
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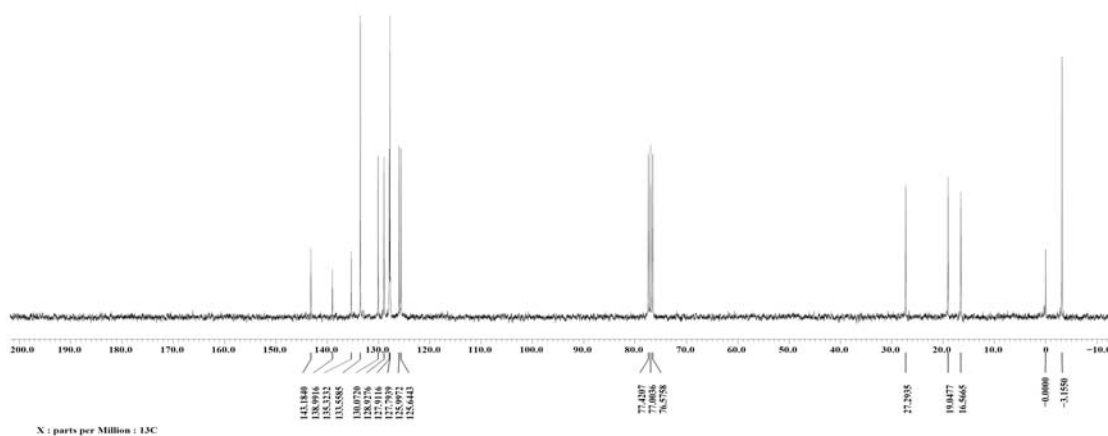


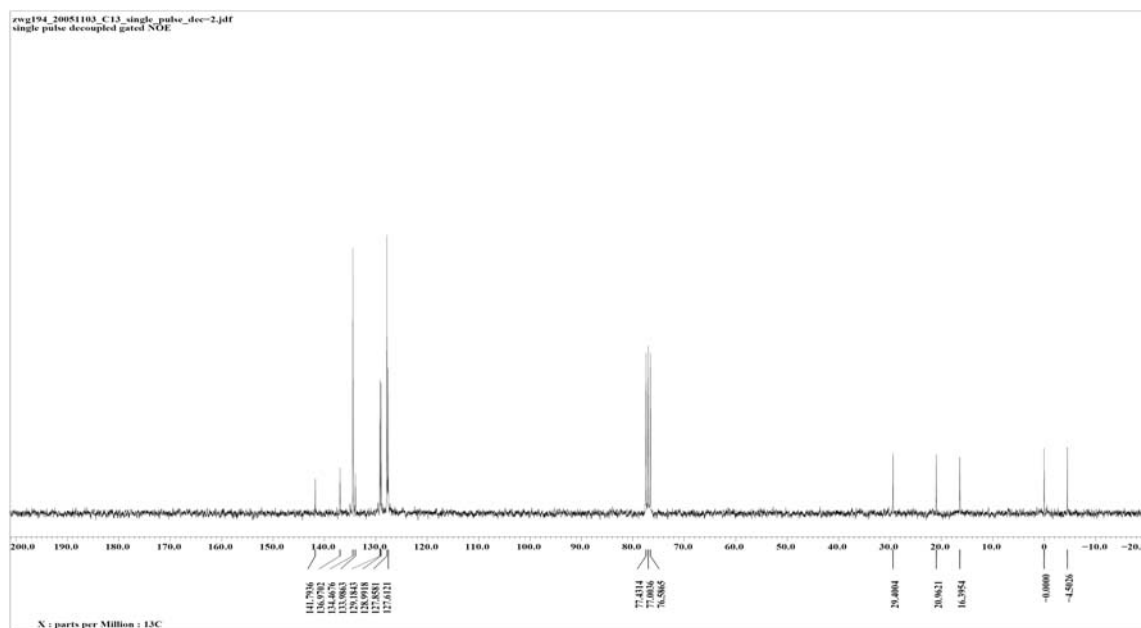
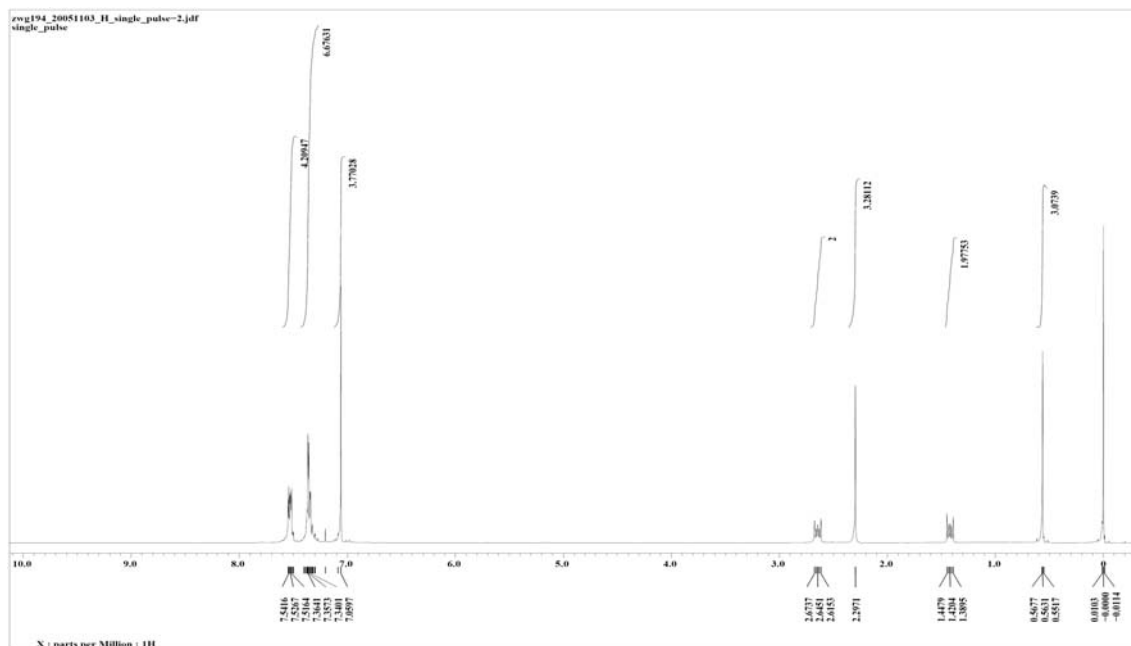
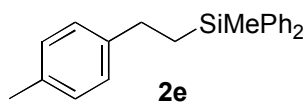


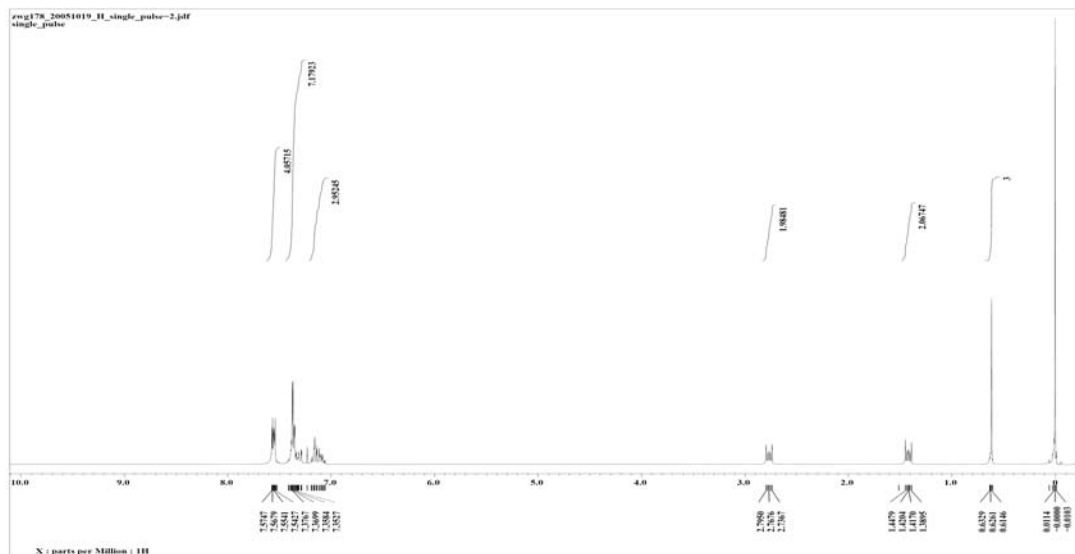
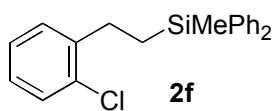
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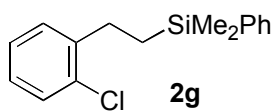


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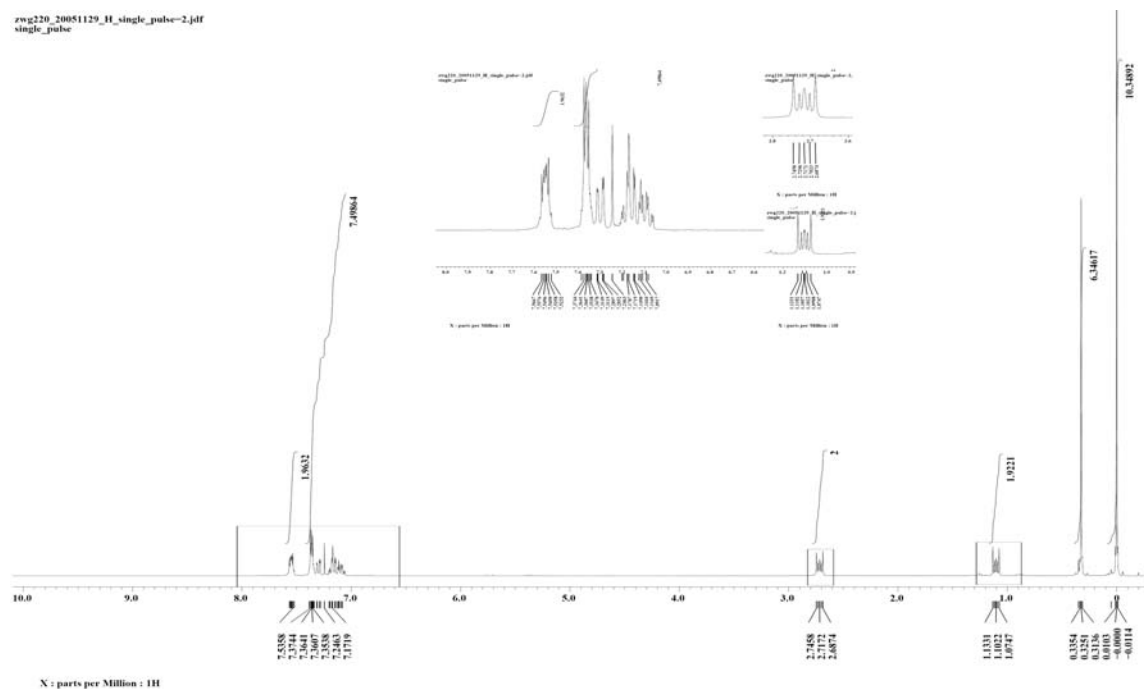


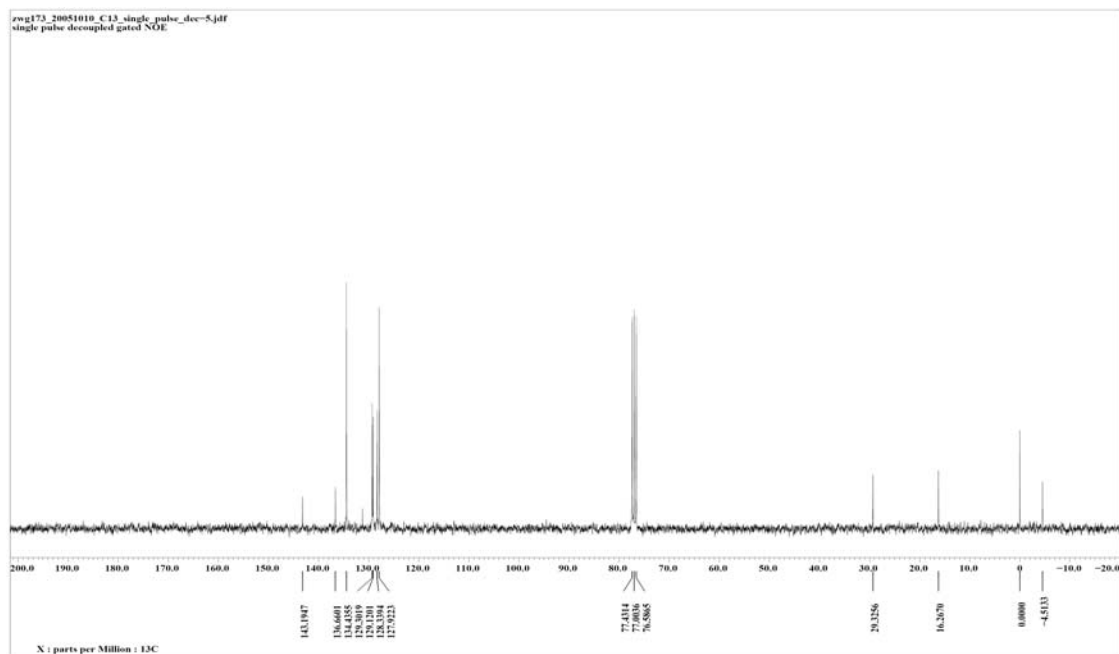
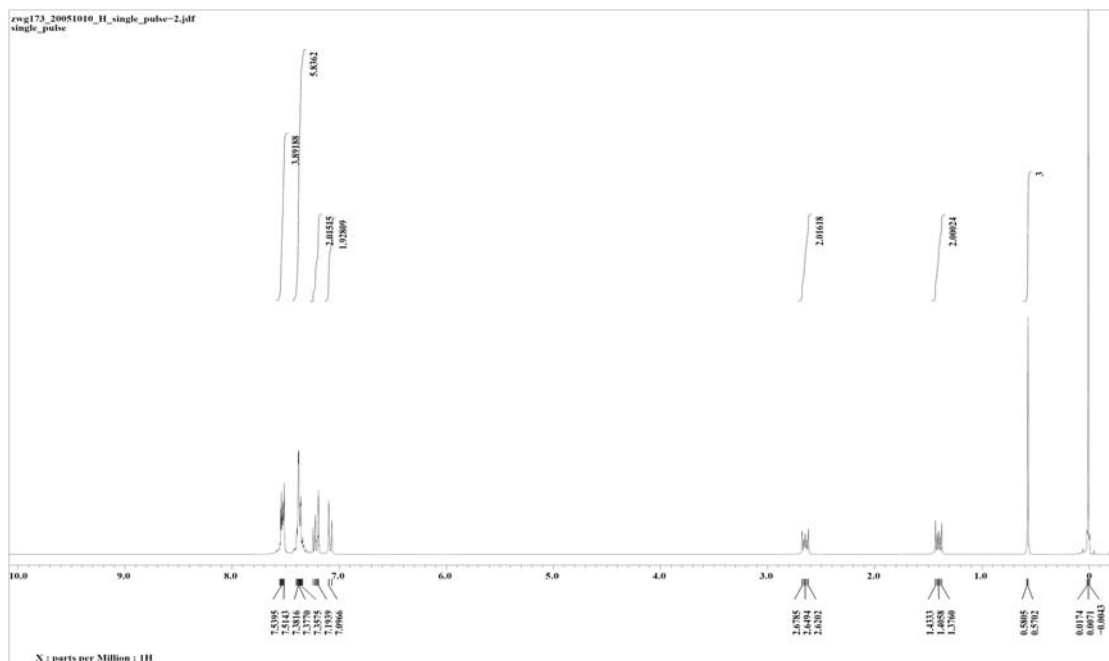
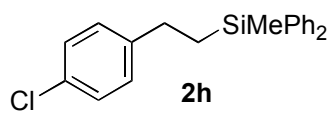


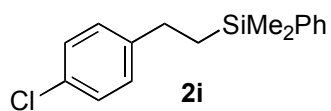




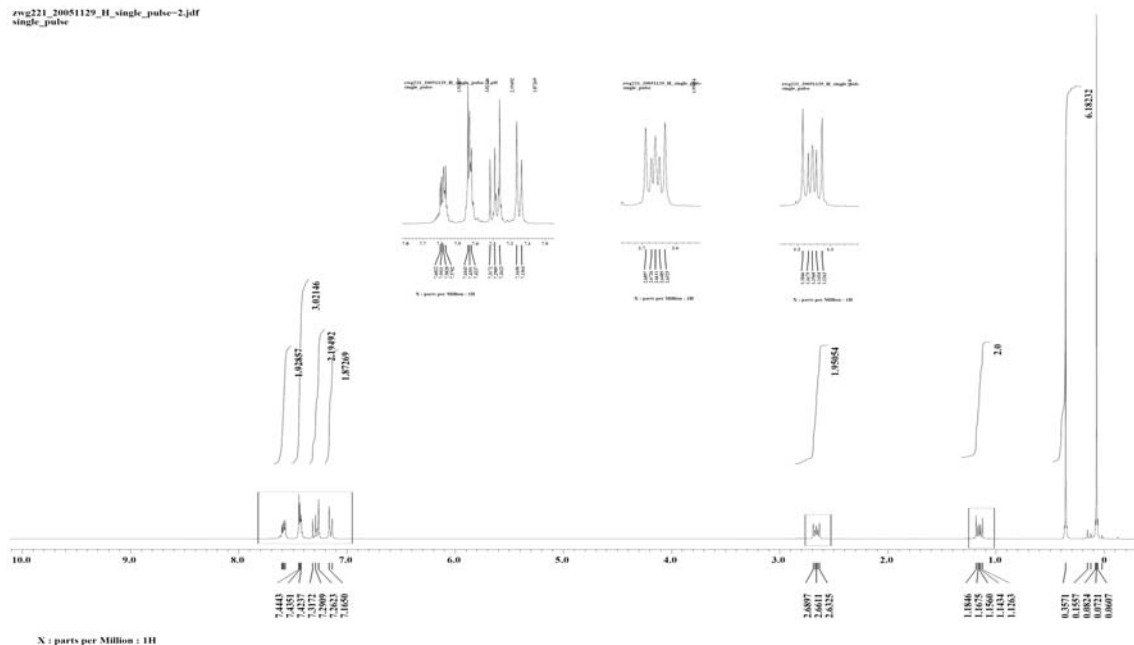
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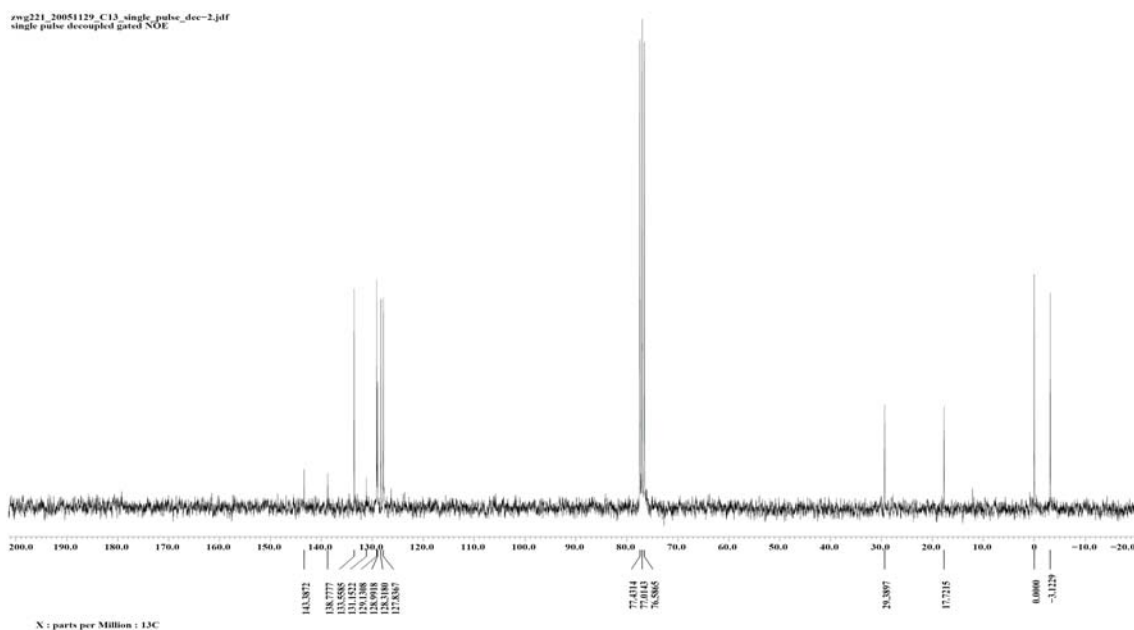


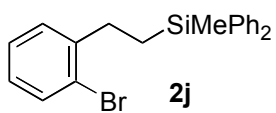


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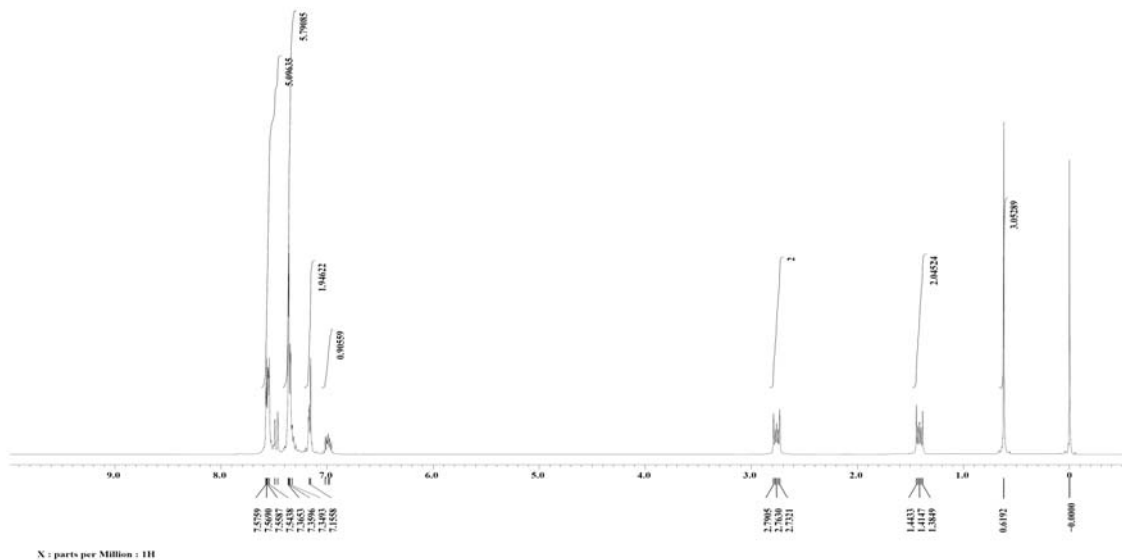


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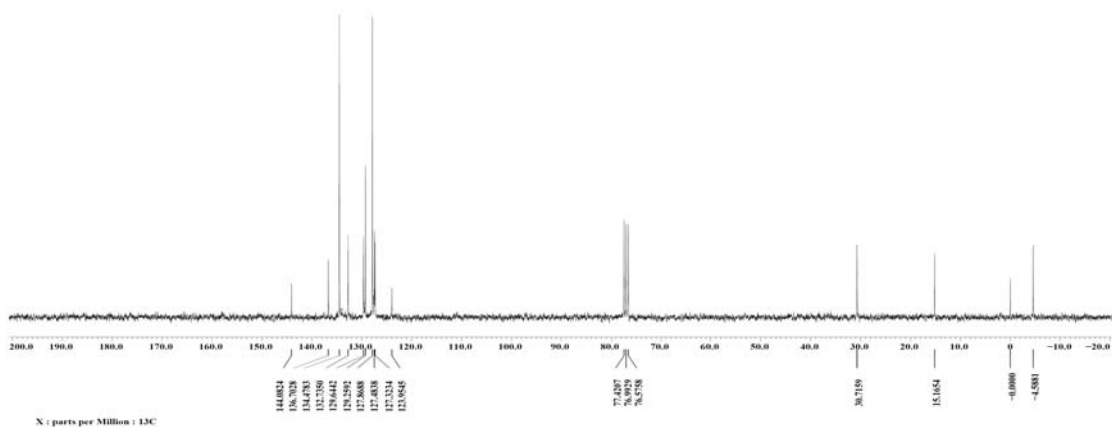


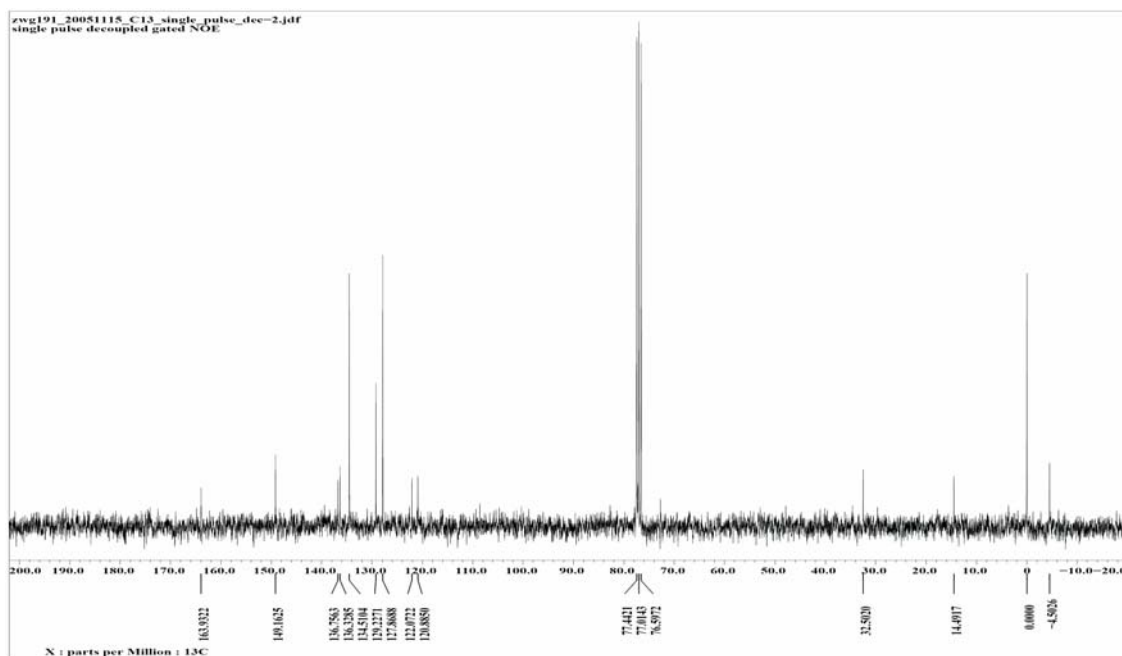
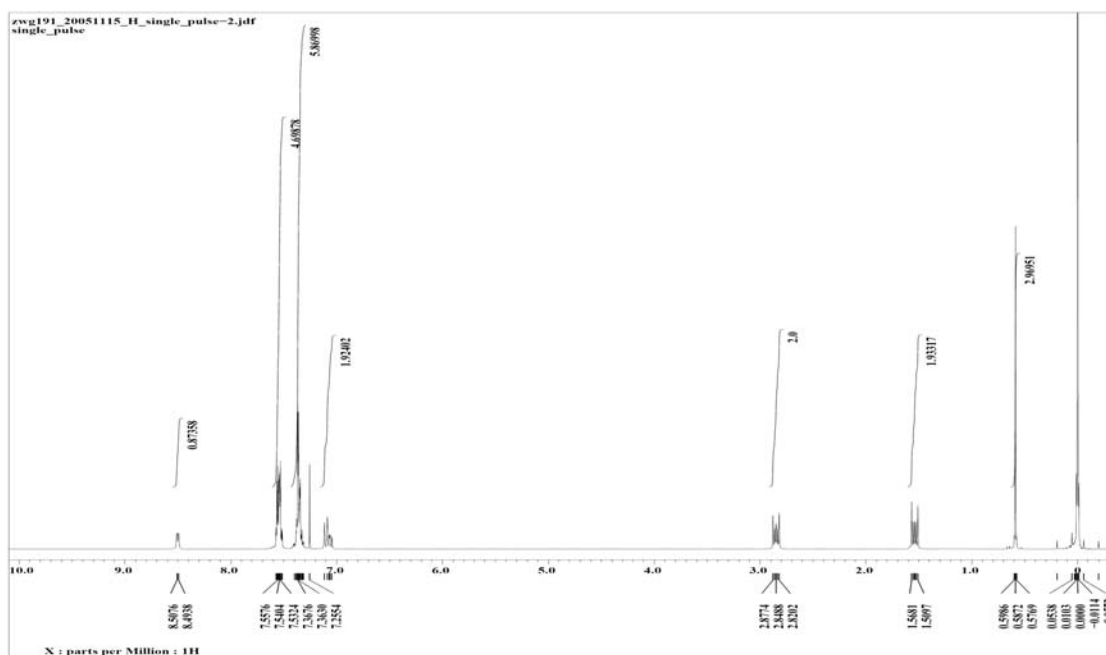
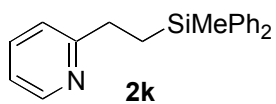


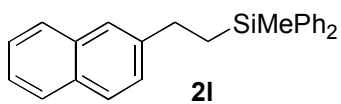
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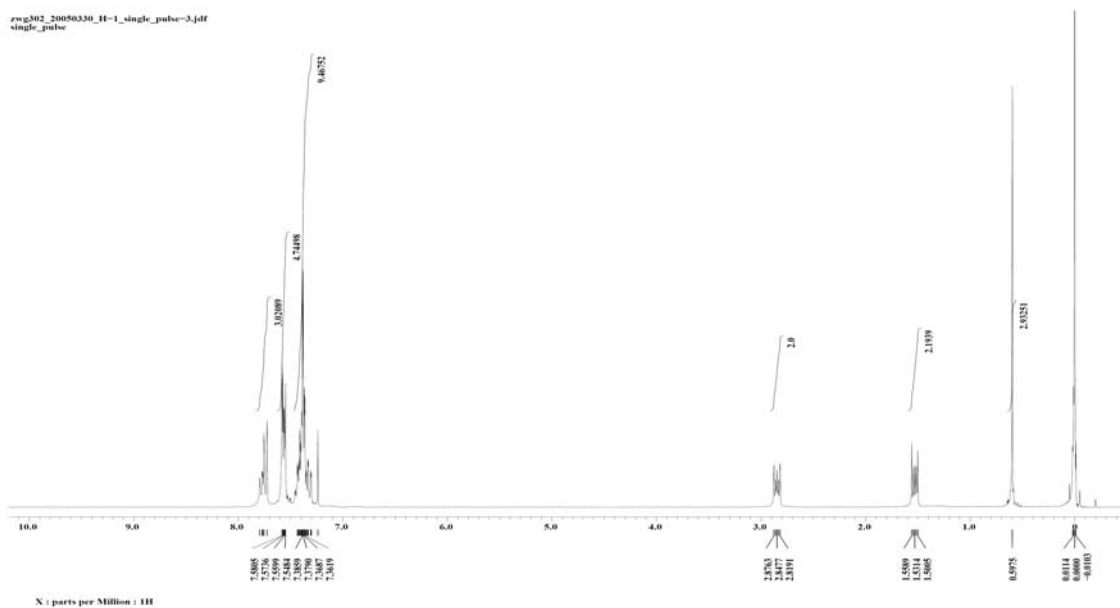
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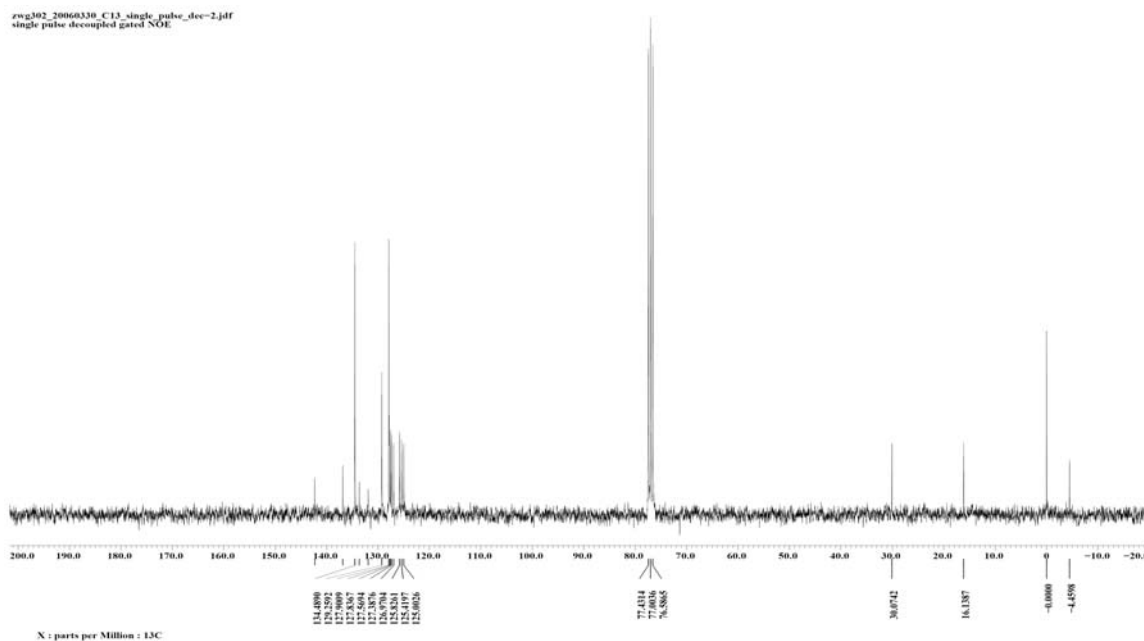


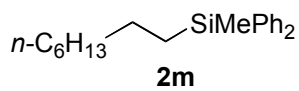


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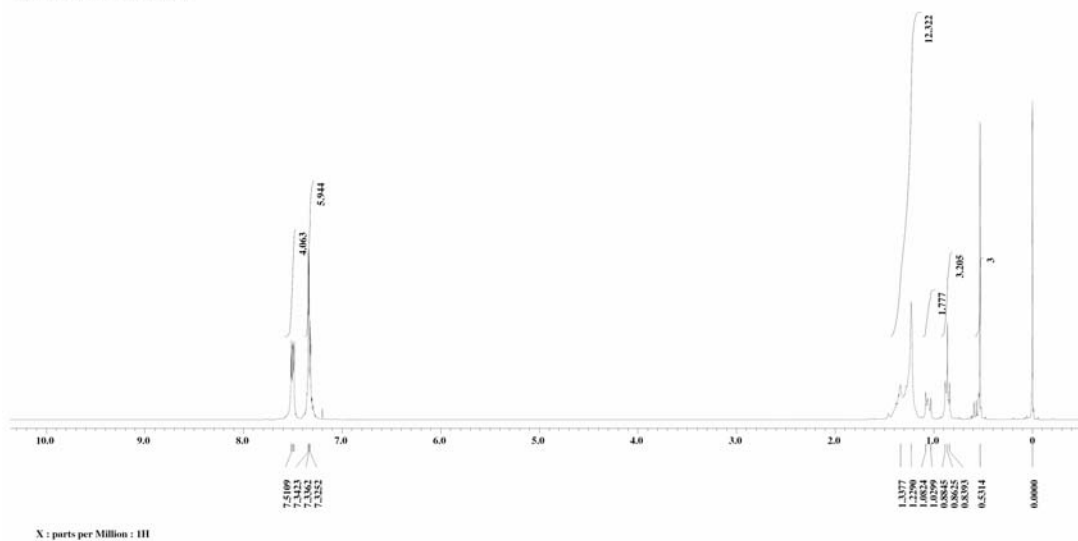


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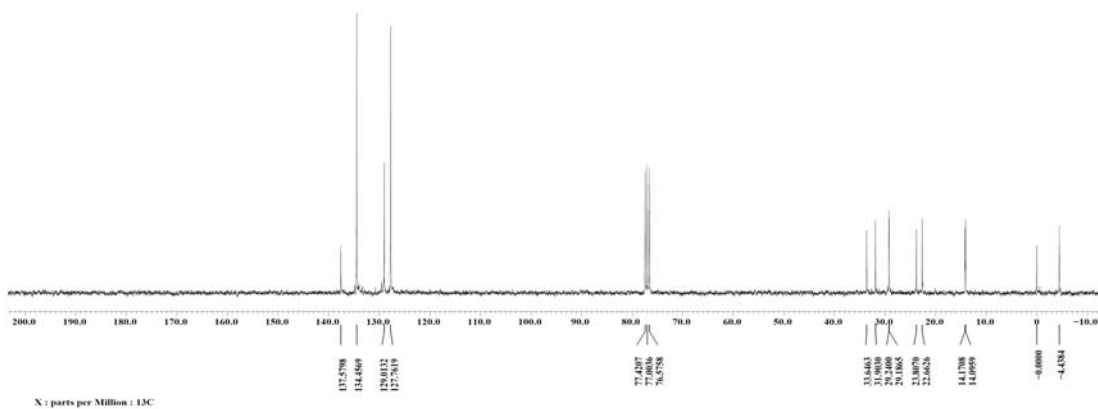


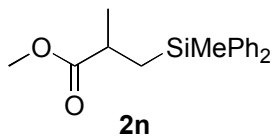


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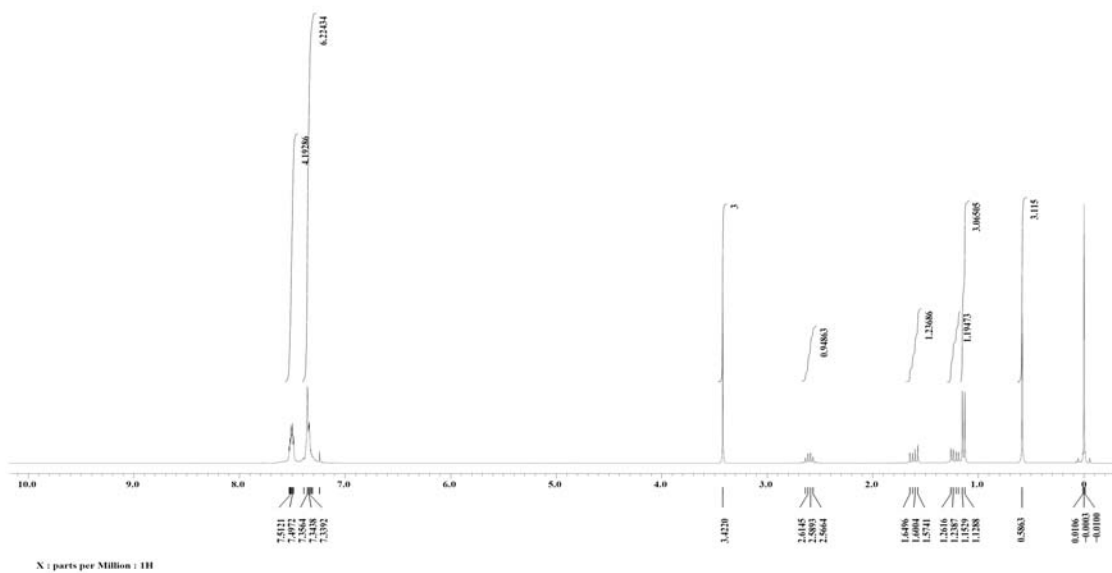


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single_pulse decoupled gated NOE

