

New journal of chemistry

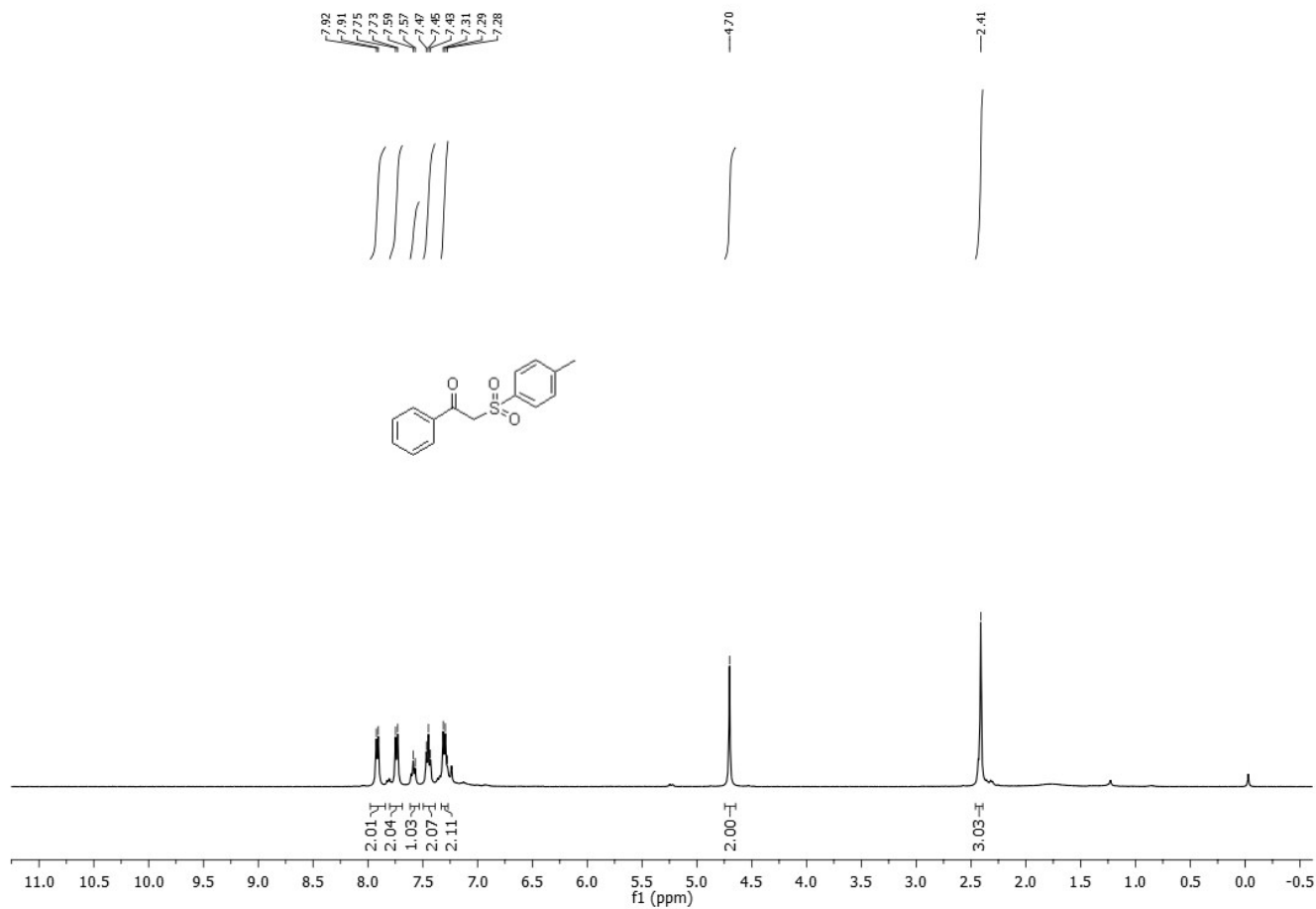
SUPPORTING INFORMATION

**Title: Sulfated tungstate/dioxygen: A new catalytic system for oxysulfonylation
of styrenes to form β -keto sulfones**

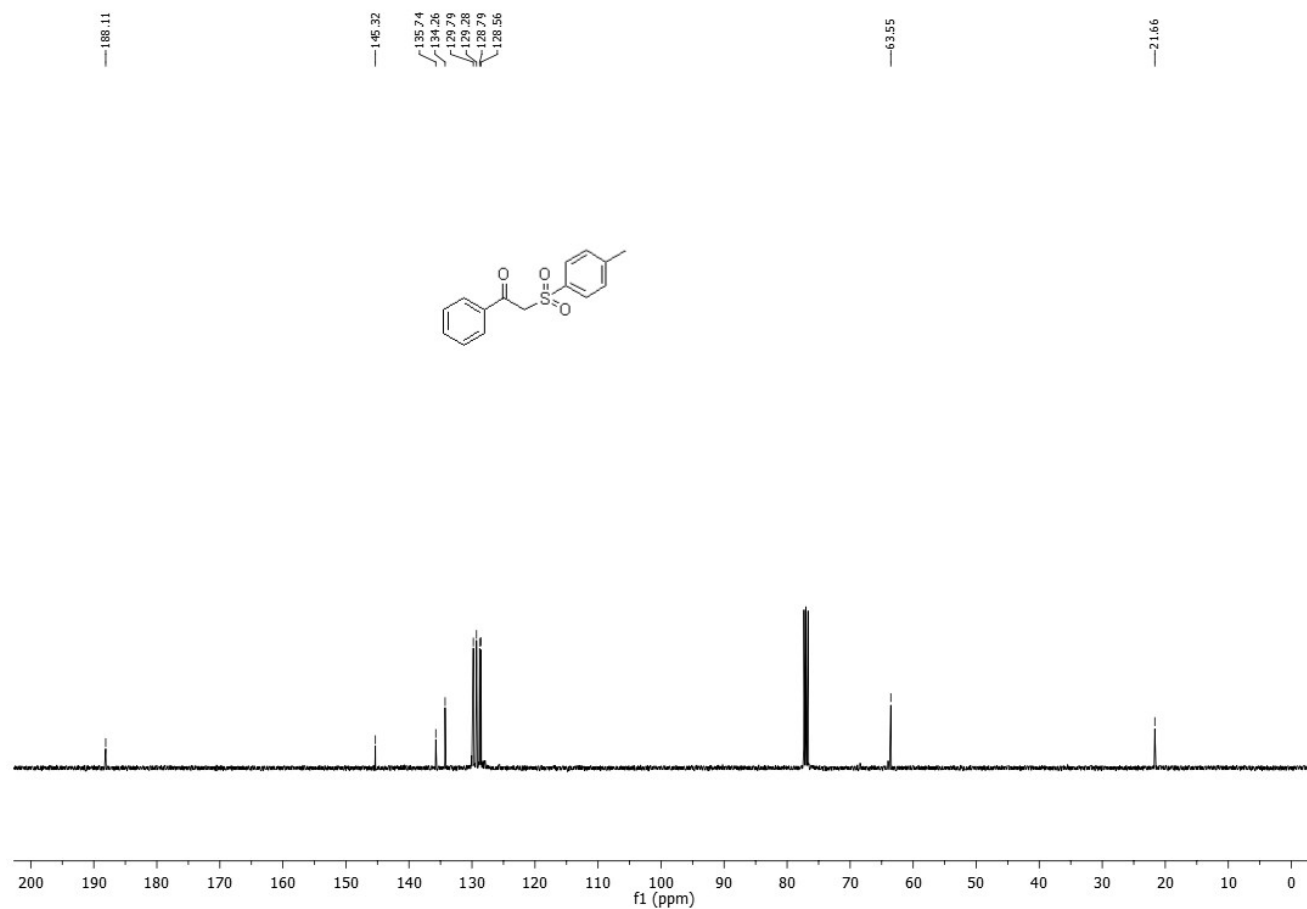
Author(s): Ganesh Wagh, Snehalata Autade, Raghavendra V. Kulkarni and Krishnacharya G. Akamanchi*

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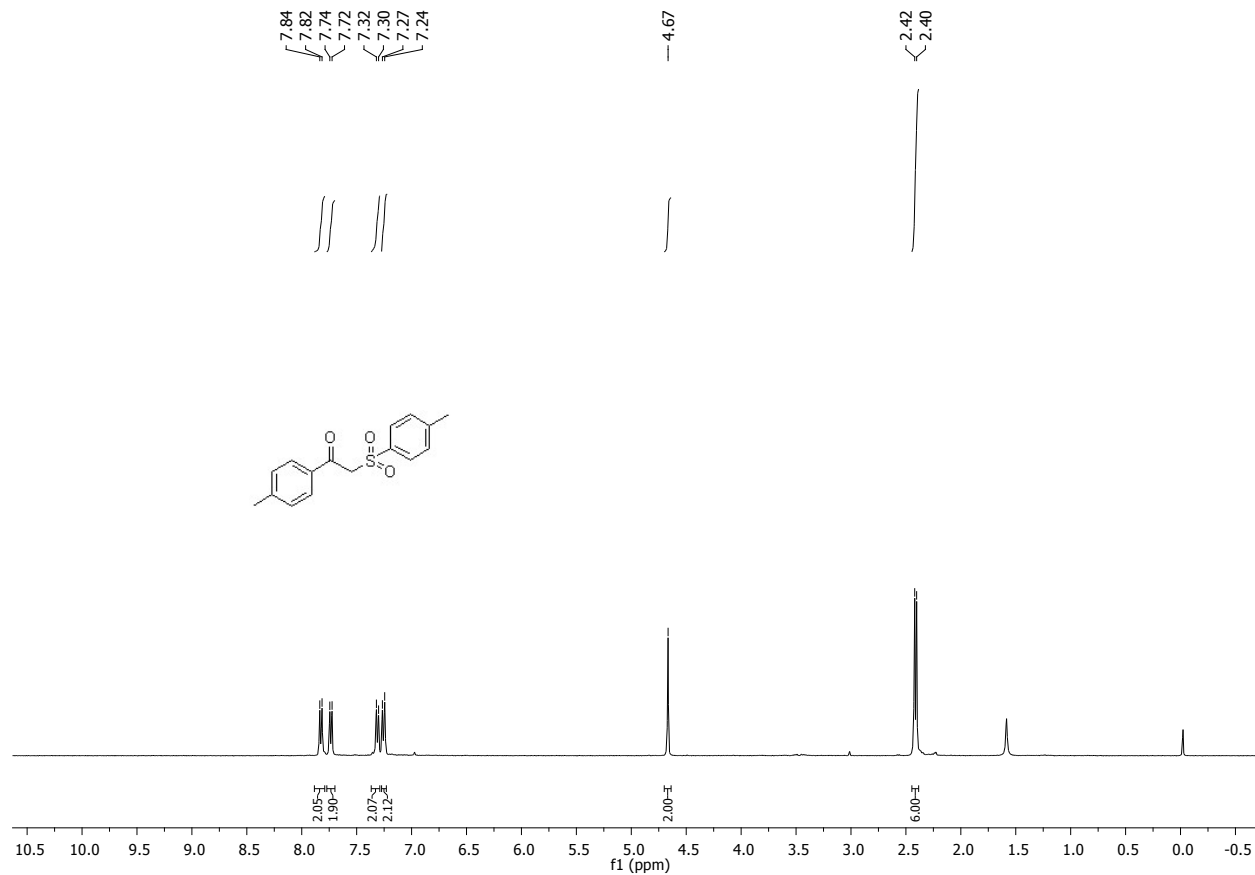
1. ^1H NMR and ^{13}C NMR spectra of **3a-3u**..... S 2-S 43



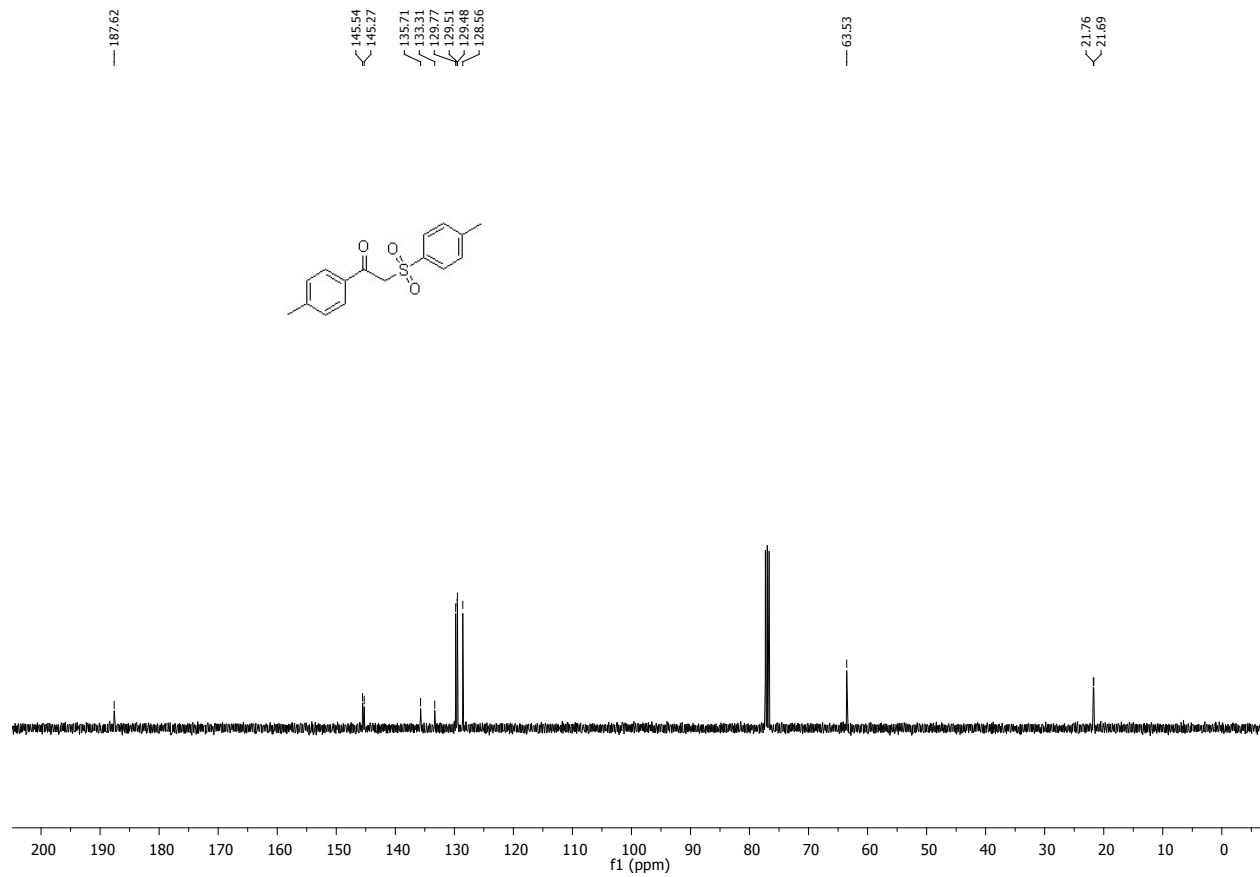
¹H spectrum 3a



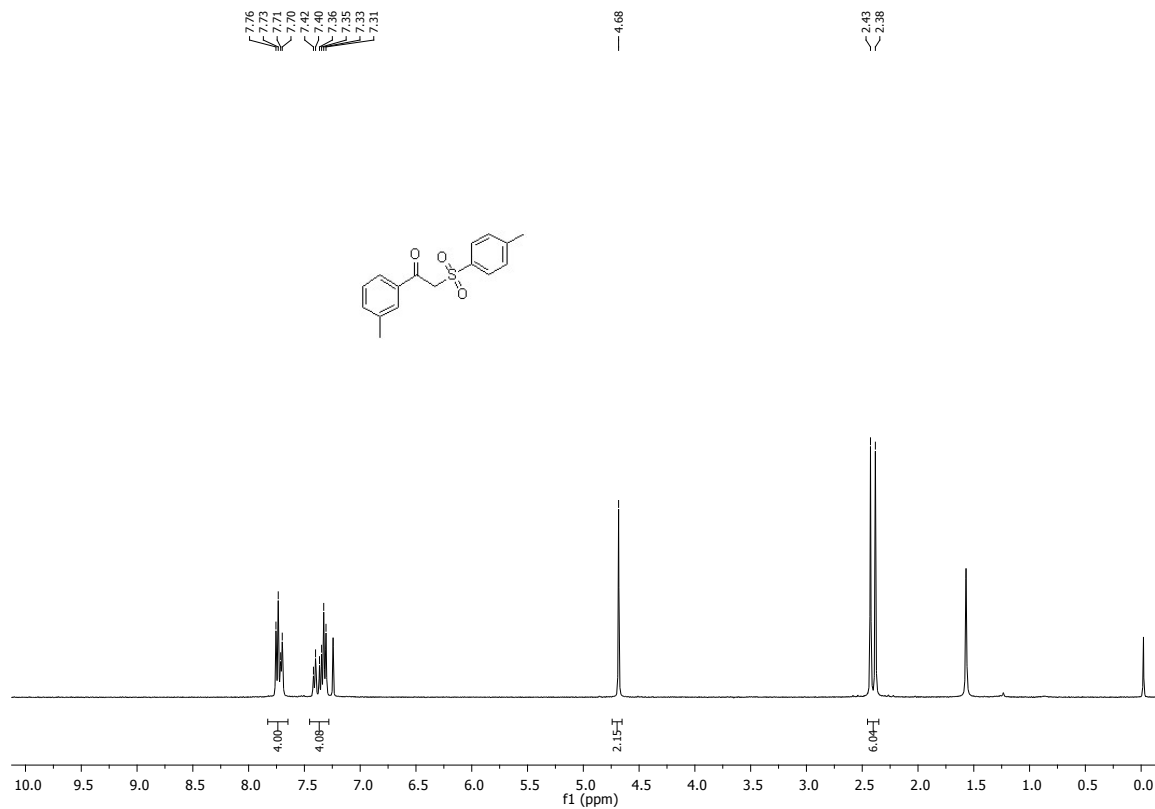
¹³C spectrum 3a



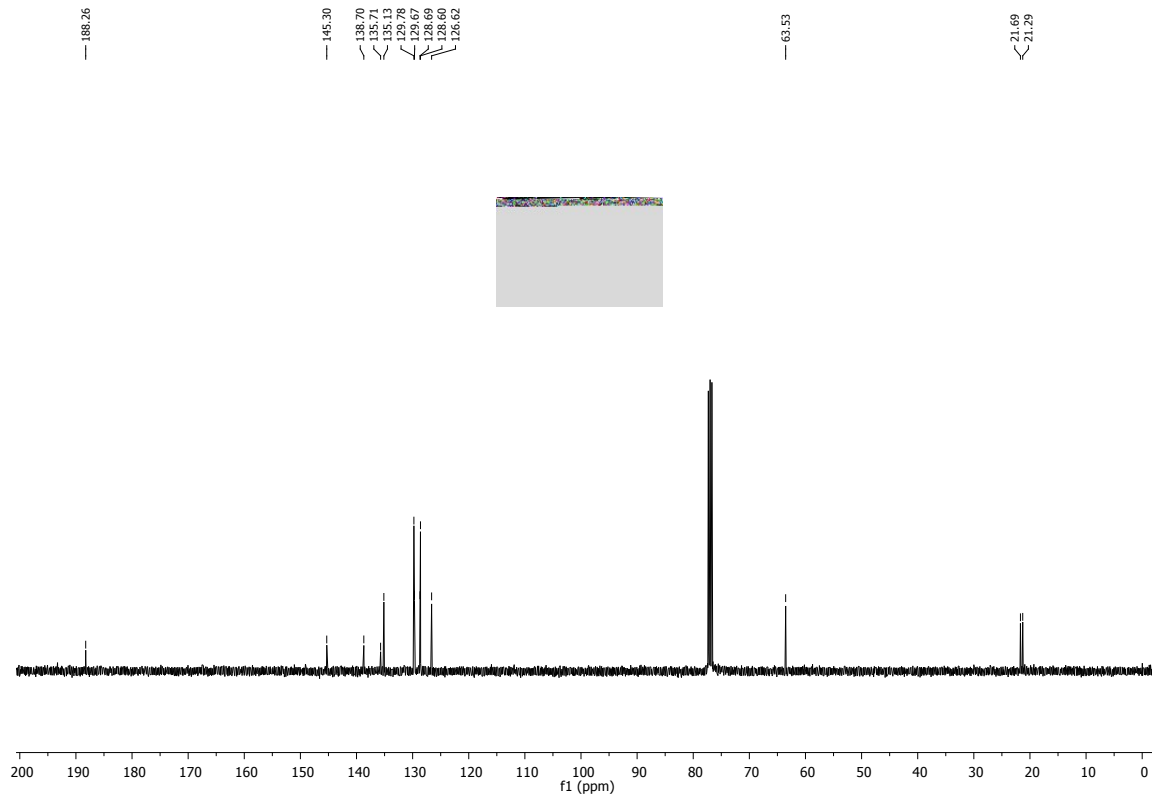
¹H spectrum 3b



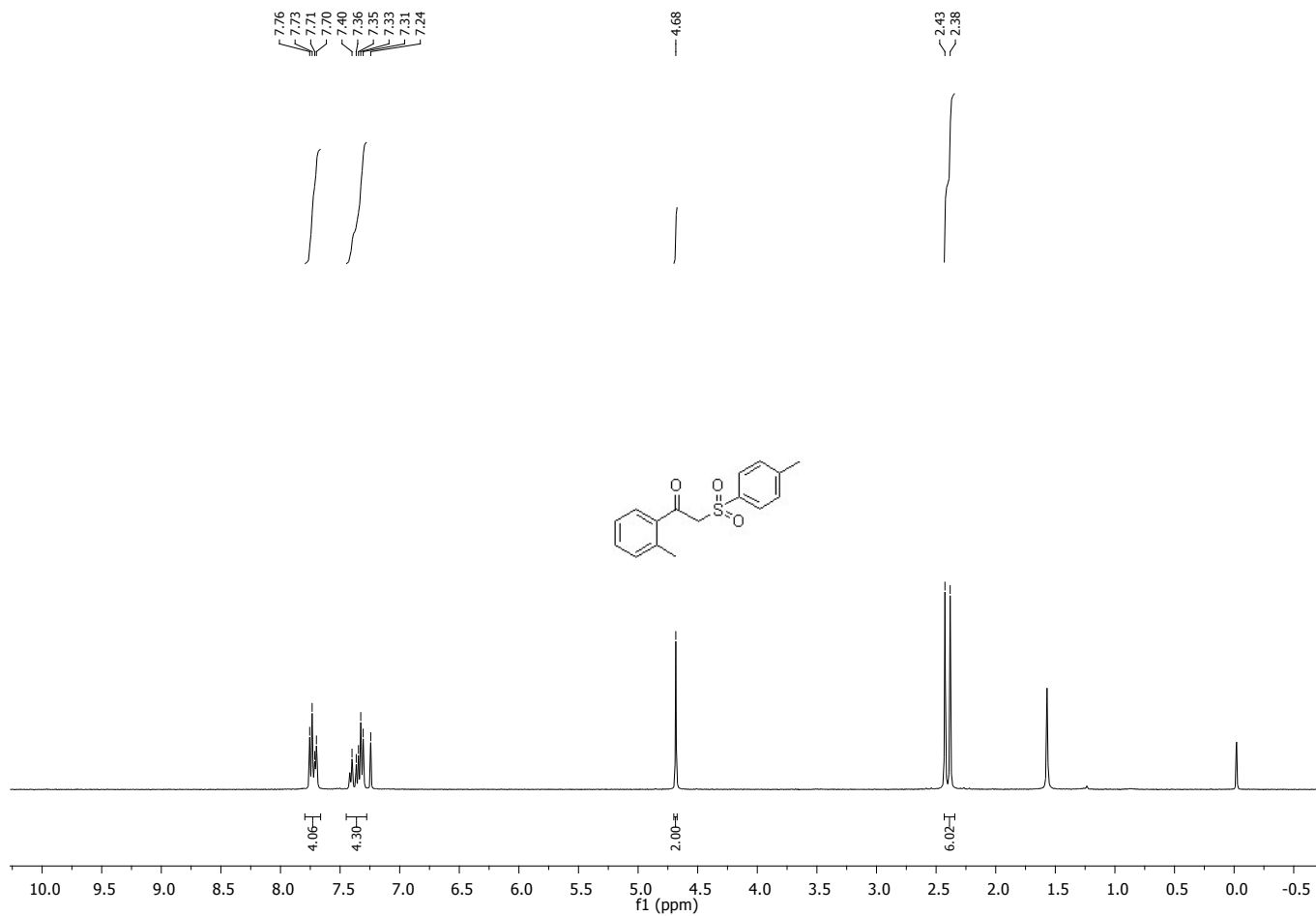
^{13}C spectrum 3b



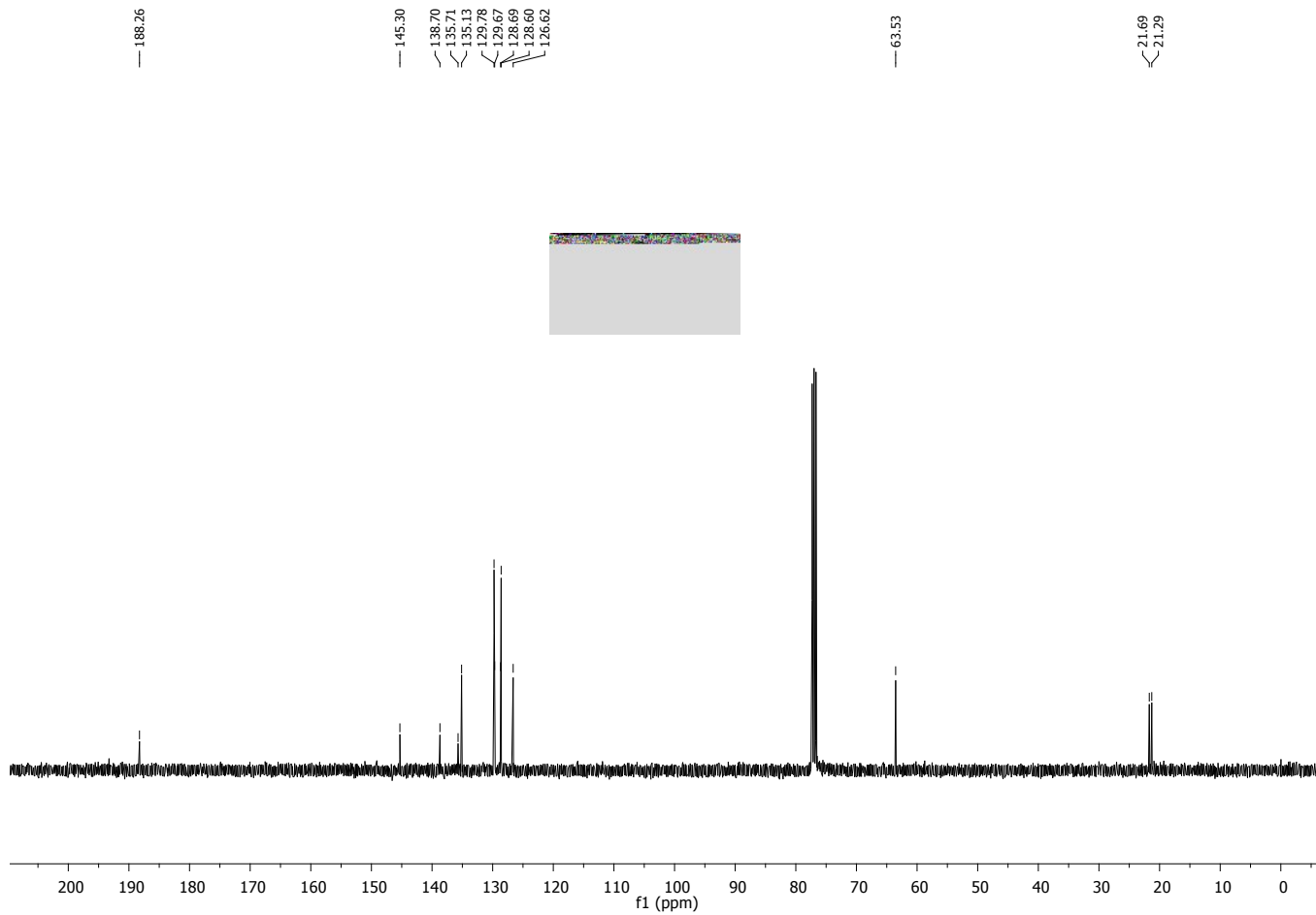
¹H spectrum 3c



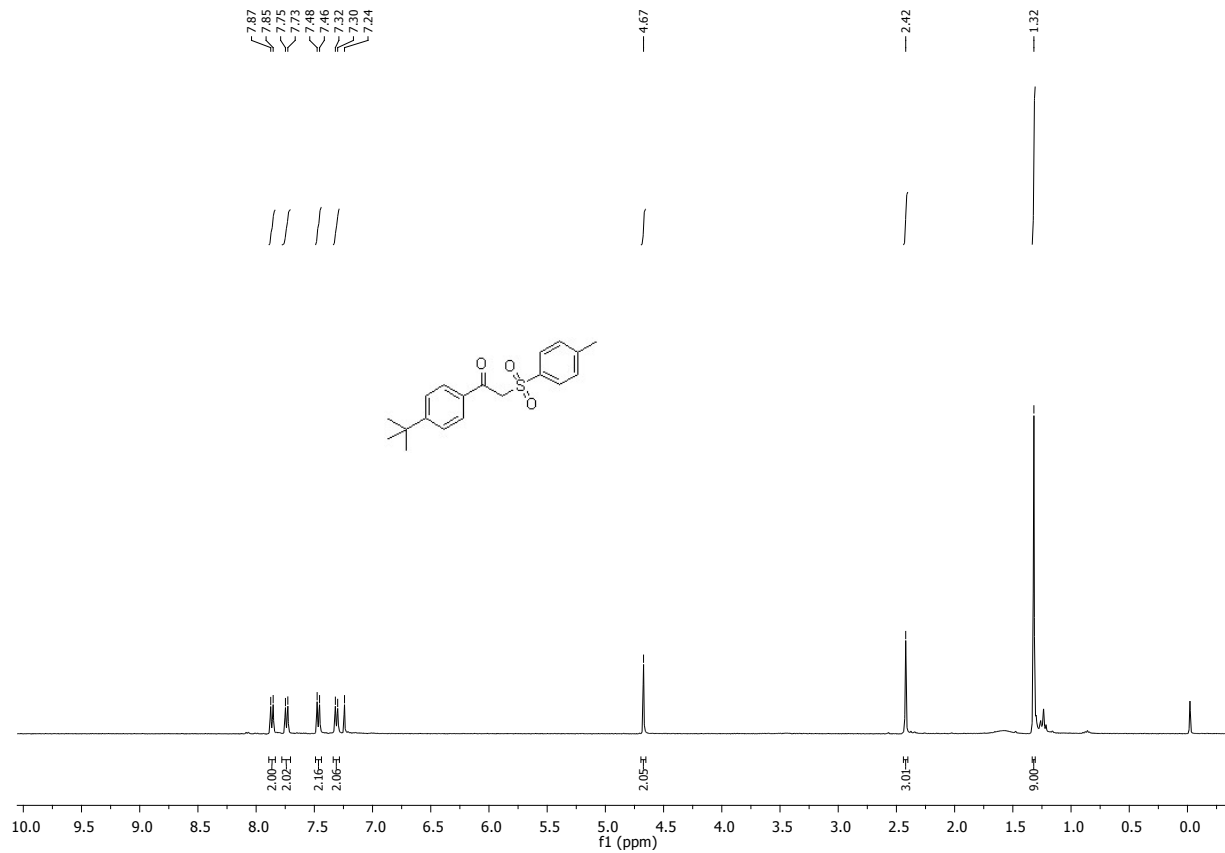
^{13}C spectrum 3c



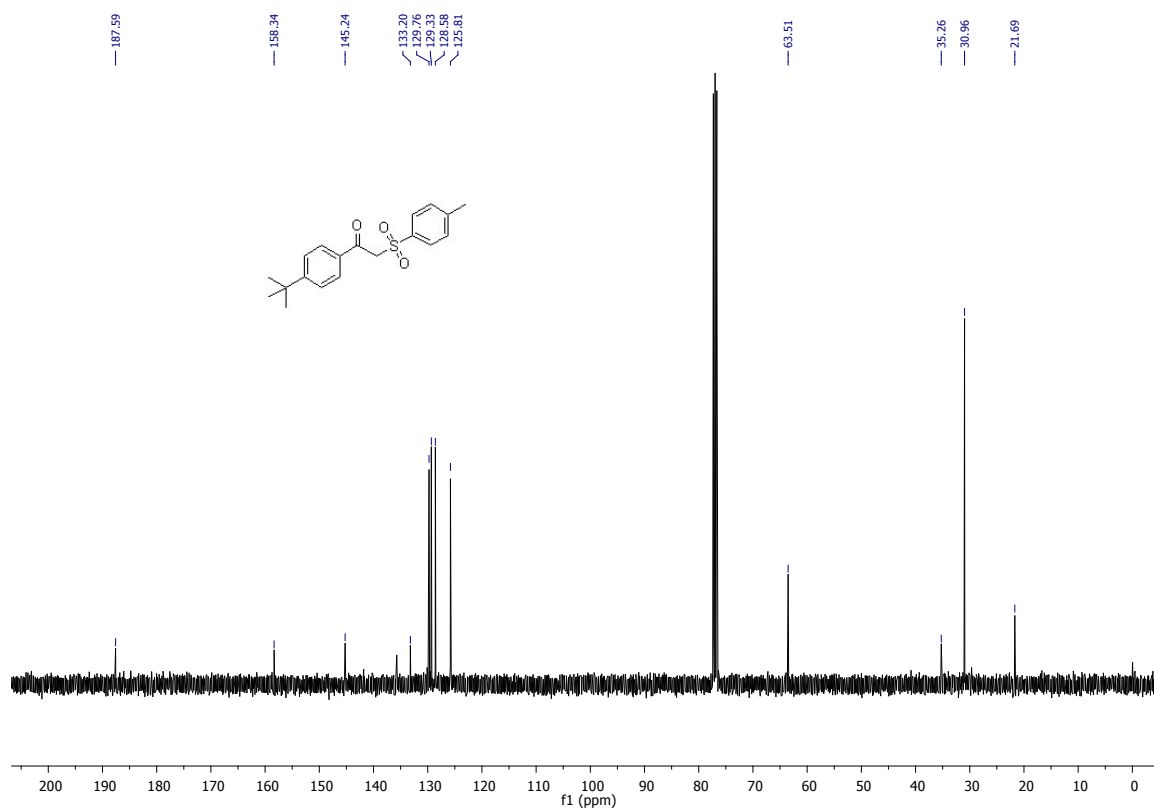
¹H spectrum 3d



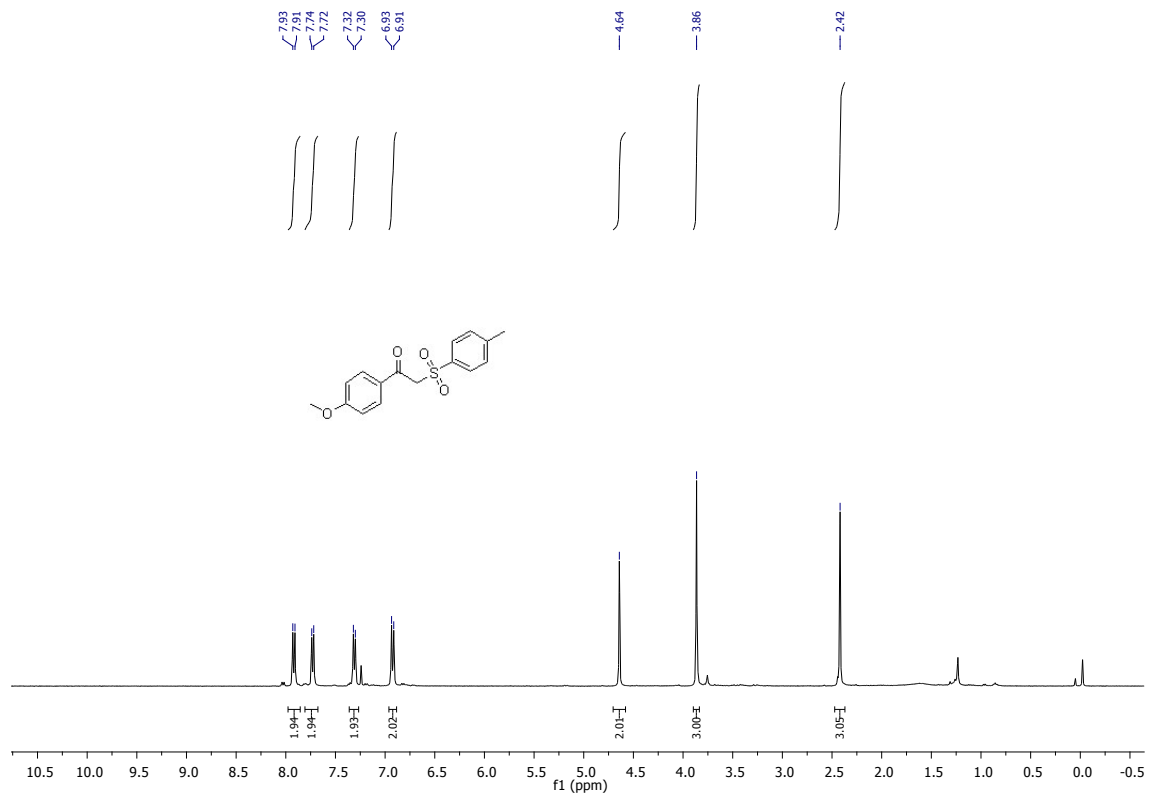
^{13}C spectrum 3d



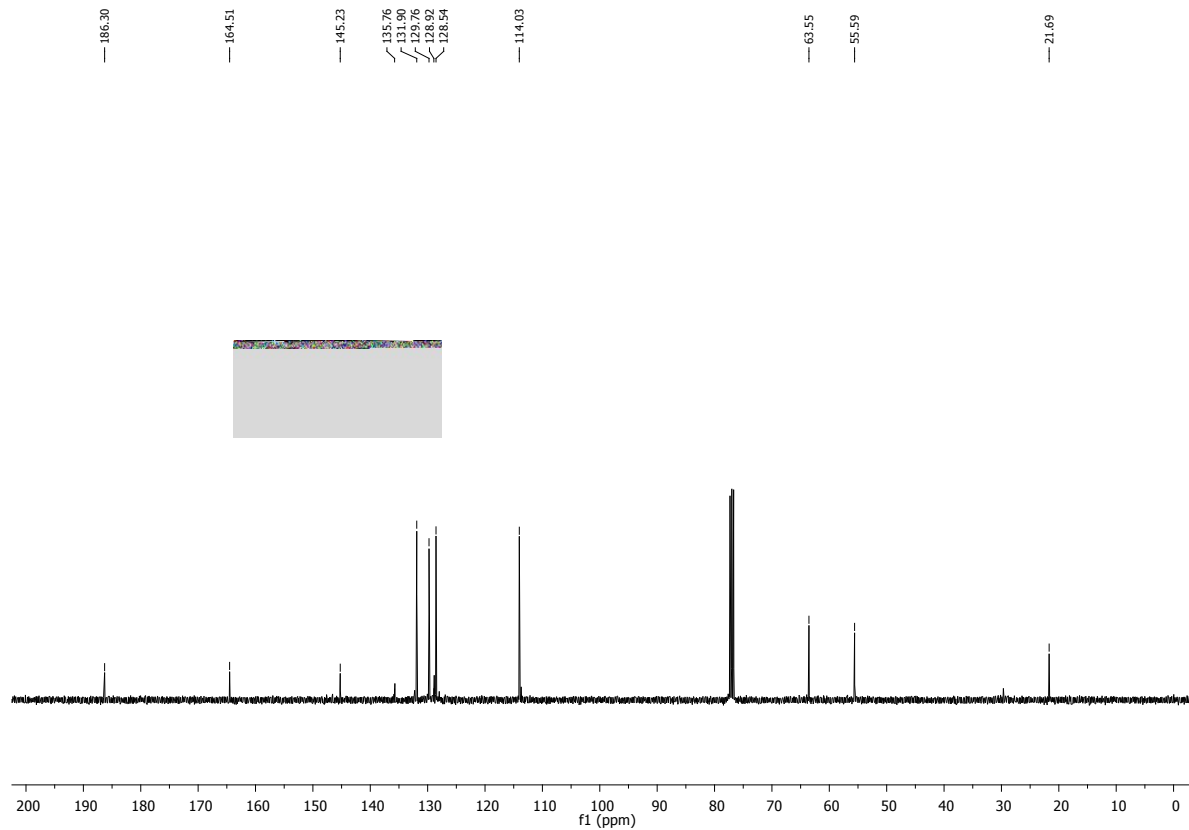
¹H spectrum 3e



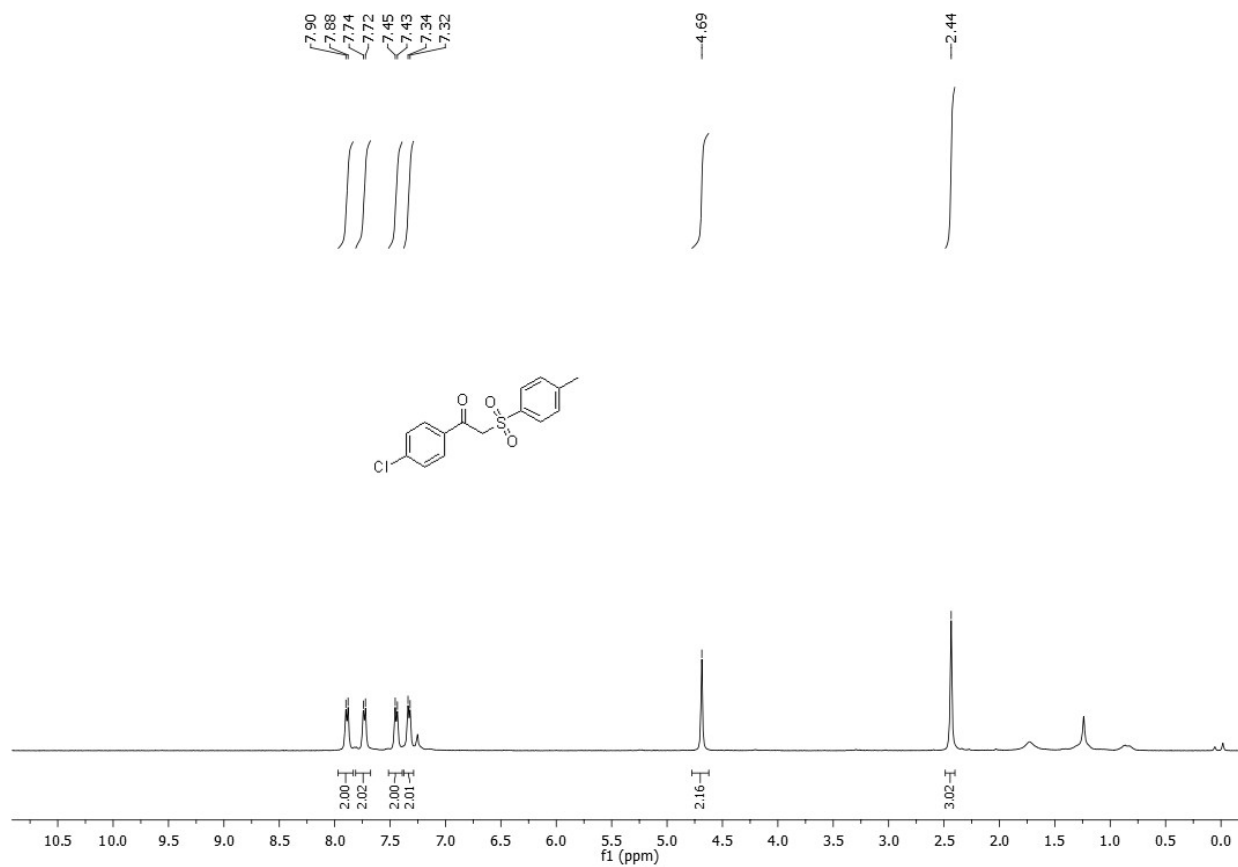
¹³C spectrum 3e



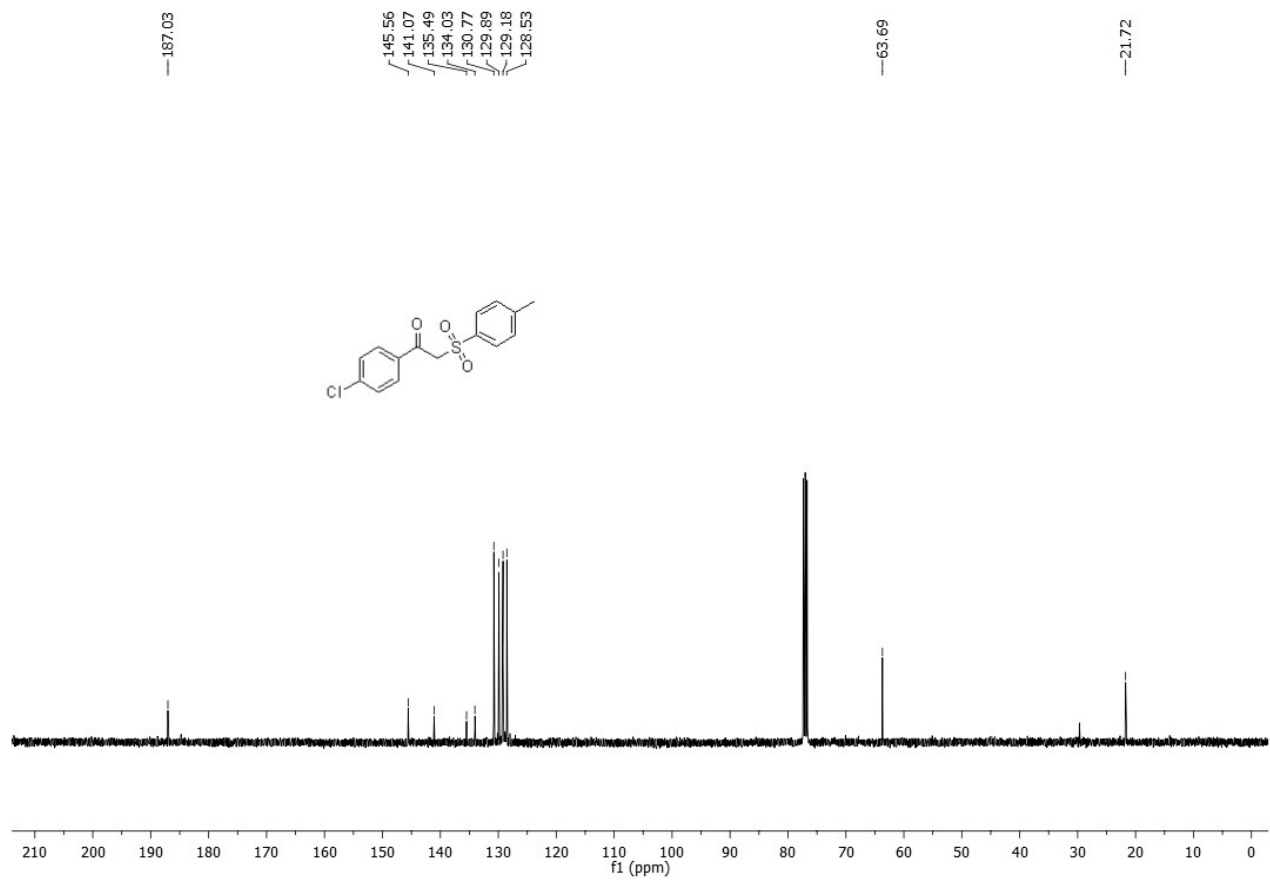
¹H spectrum 3f



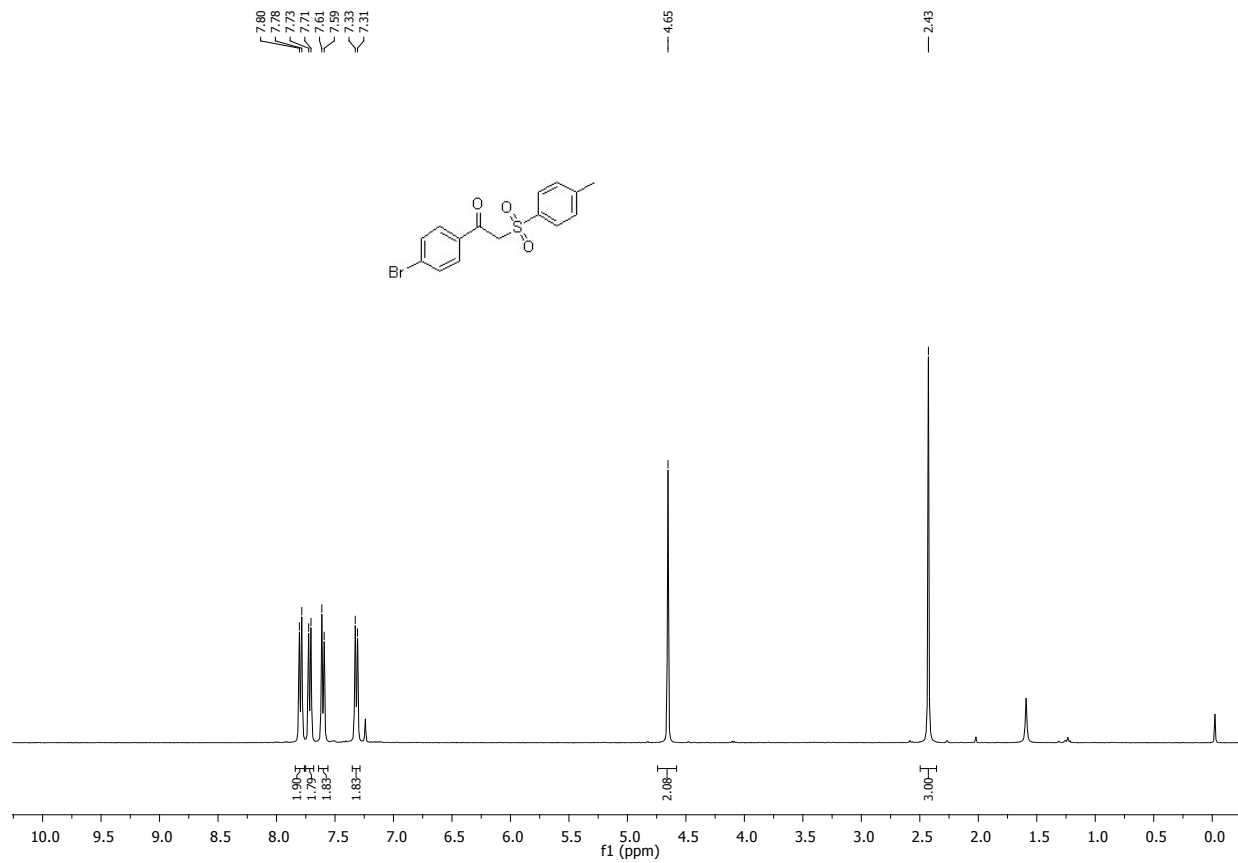
^{13}C spectrum 3f



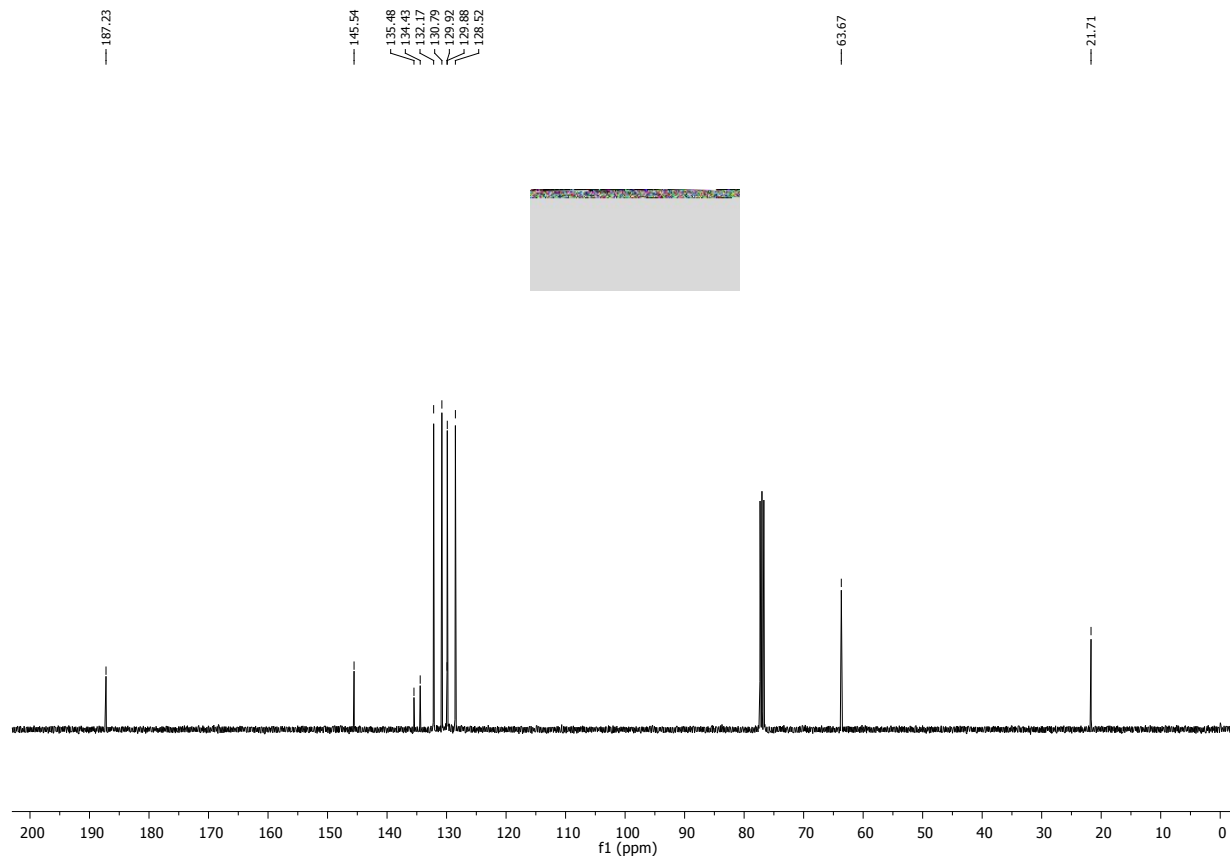
¹H spectrum 3g



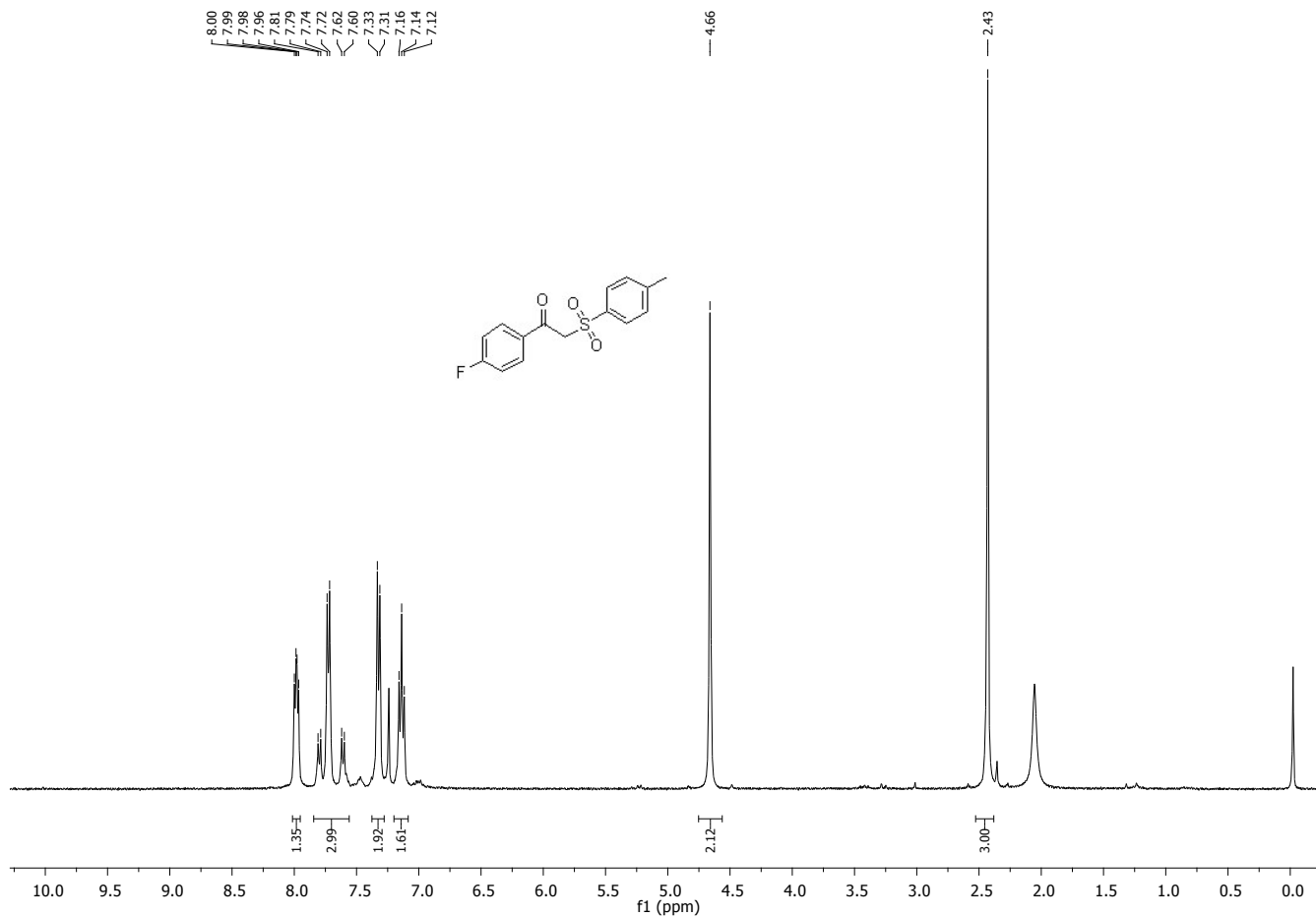
^{13}C spectrum 3g



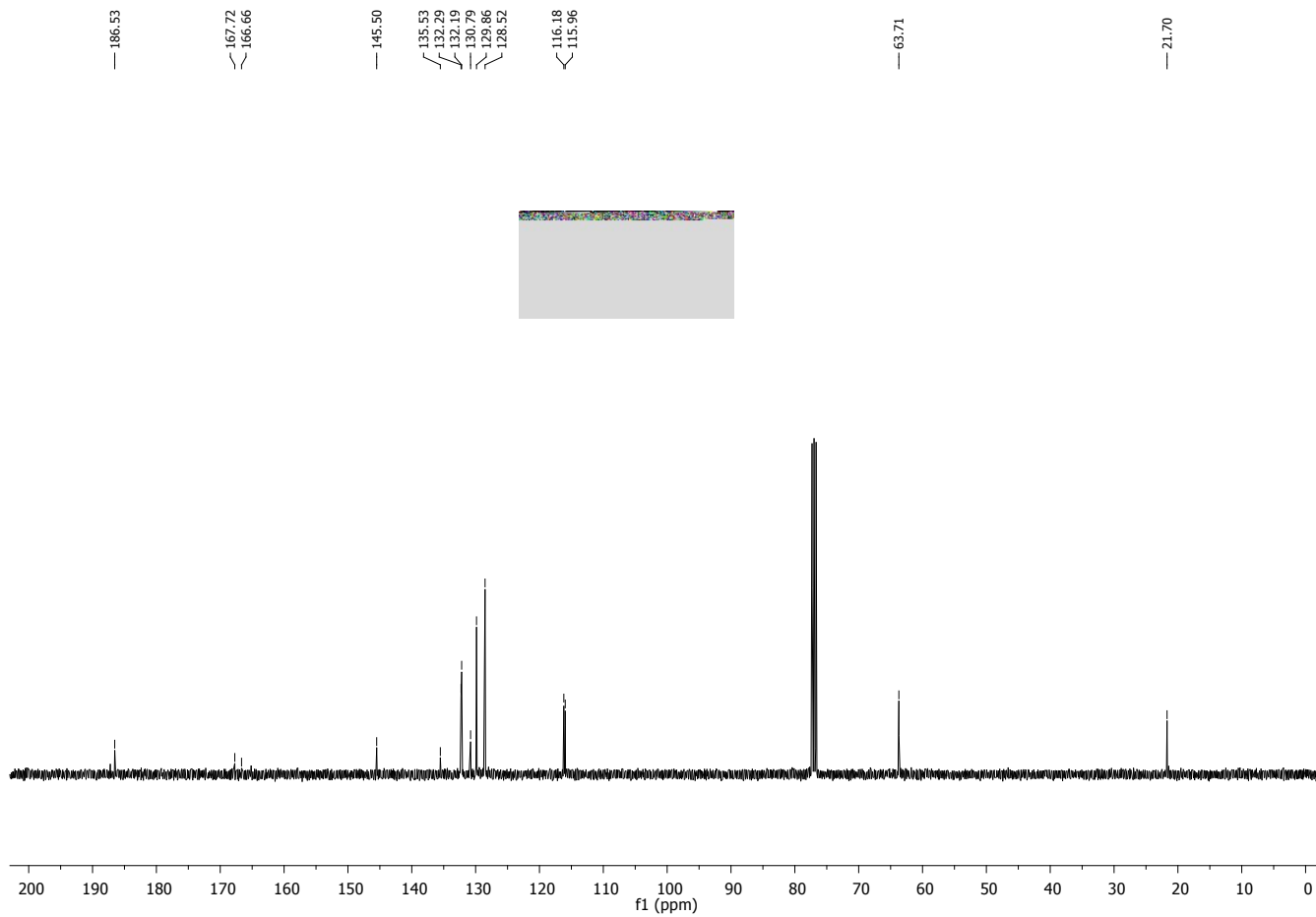
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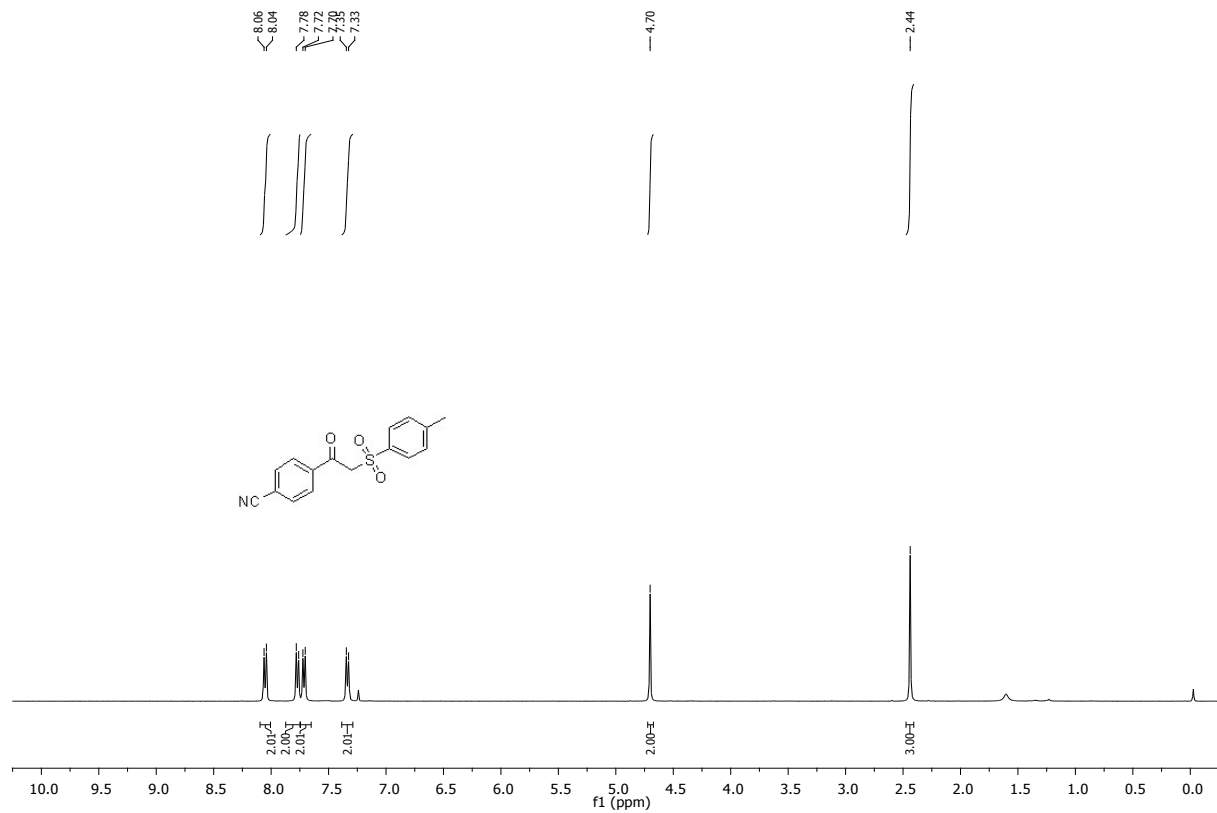
^{13}C spectrum 3h



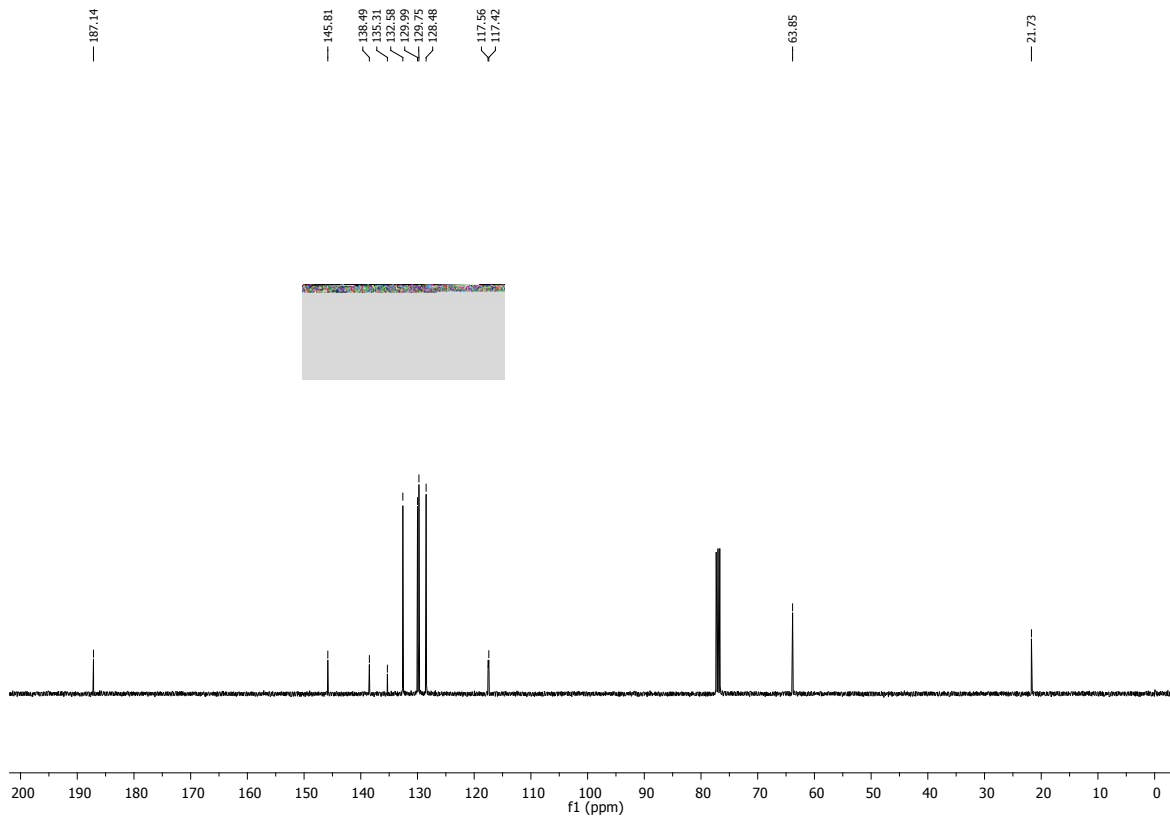
¹H spectrum 3i



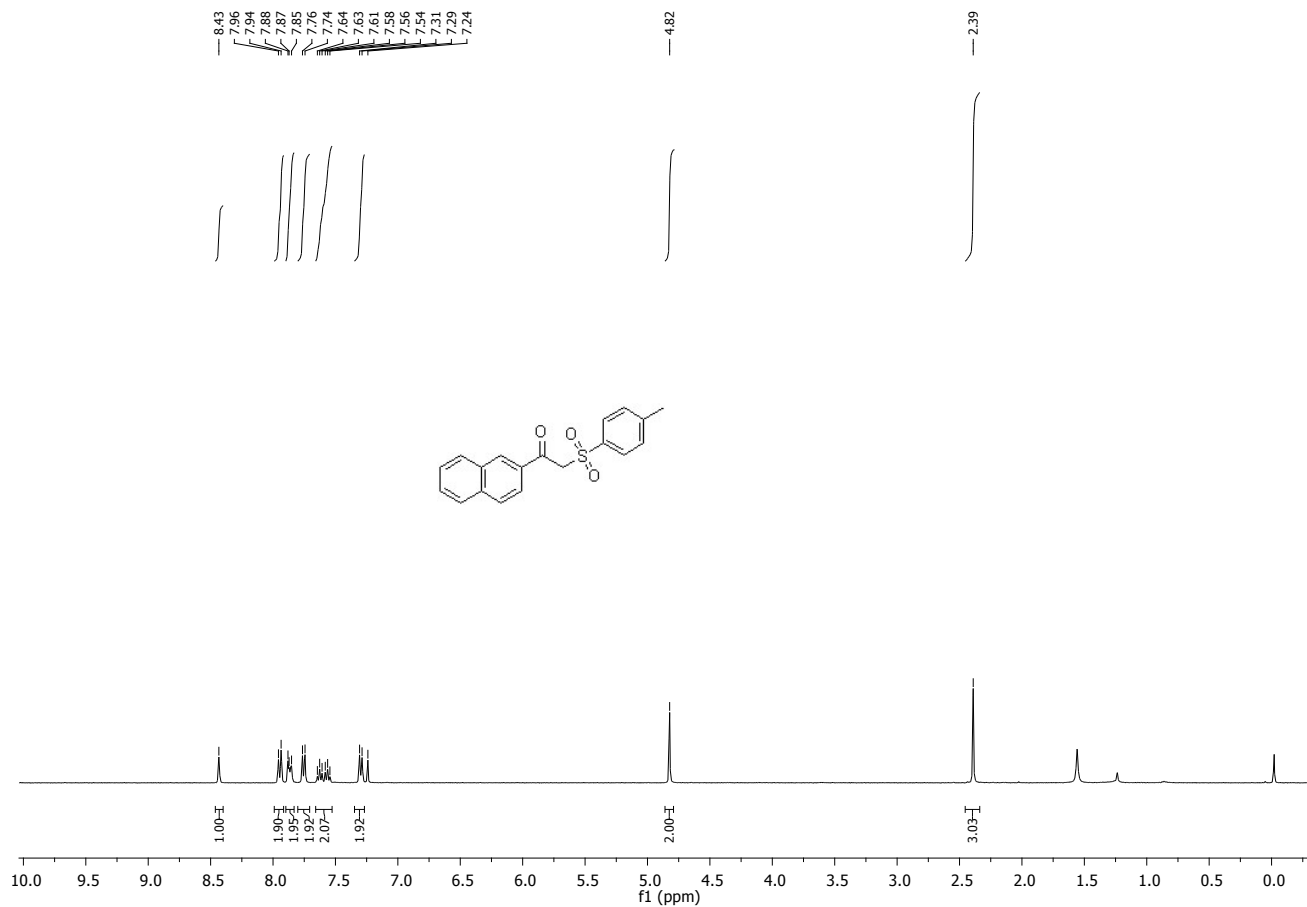
^{13}C spectrum 3i



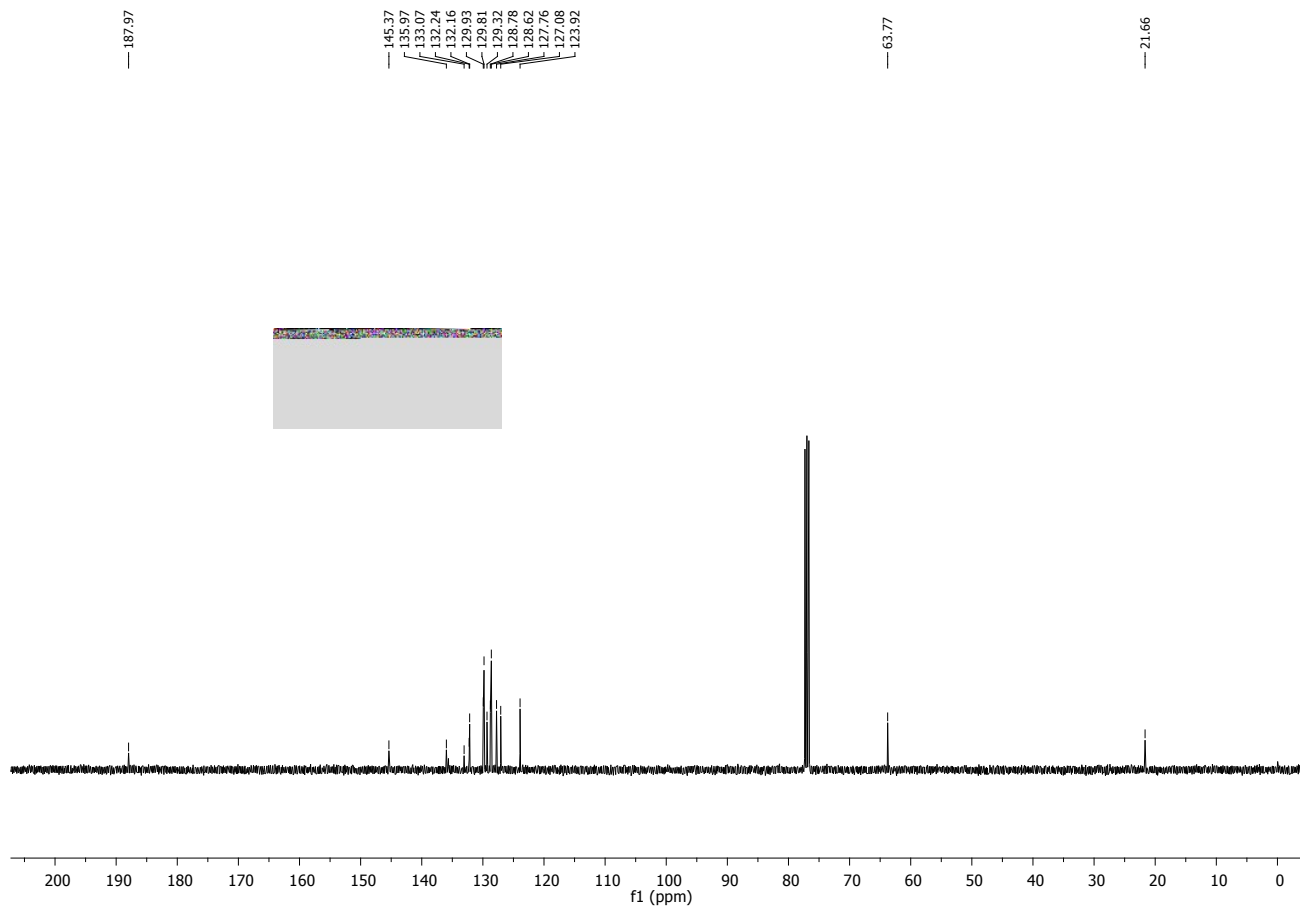
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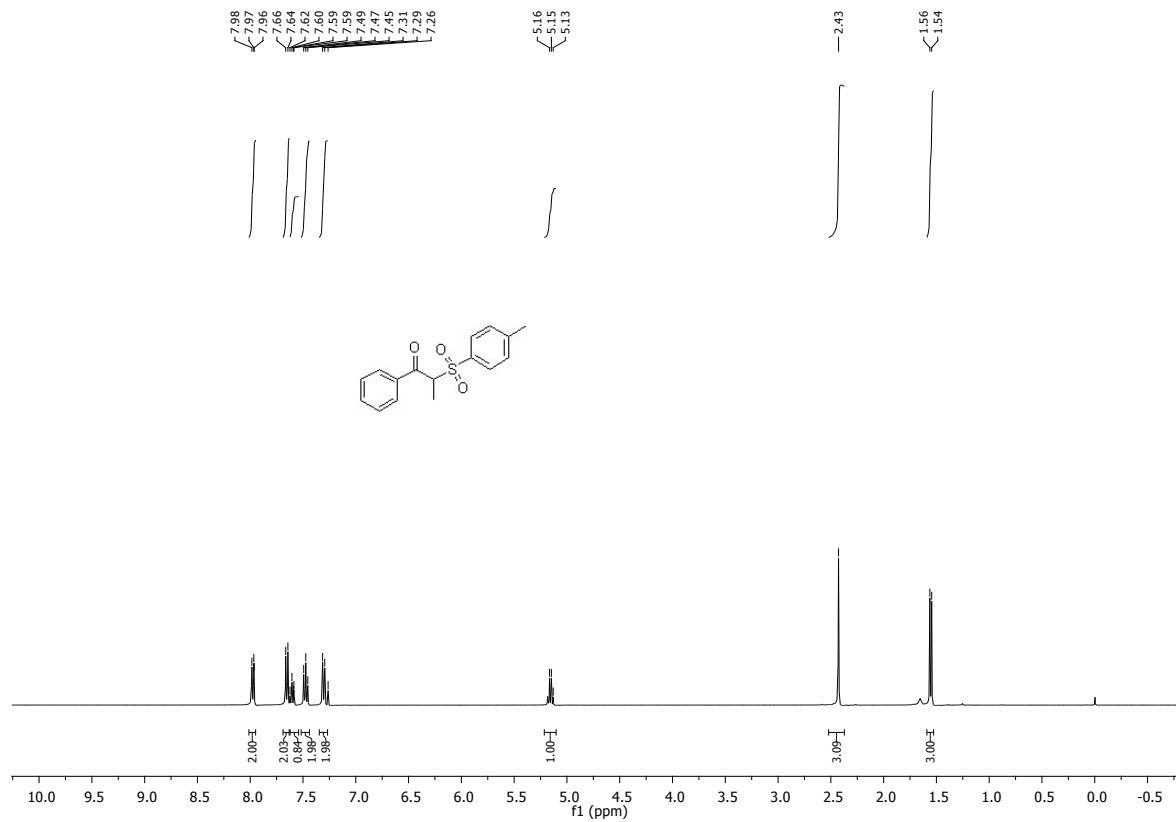
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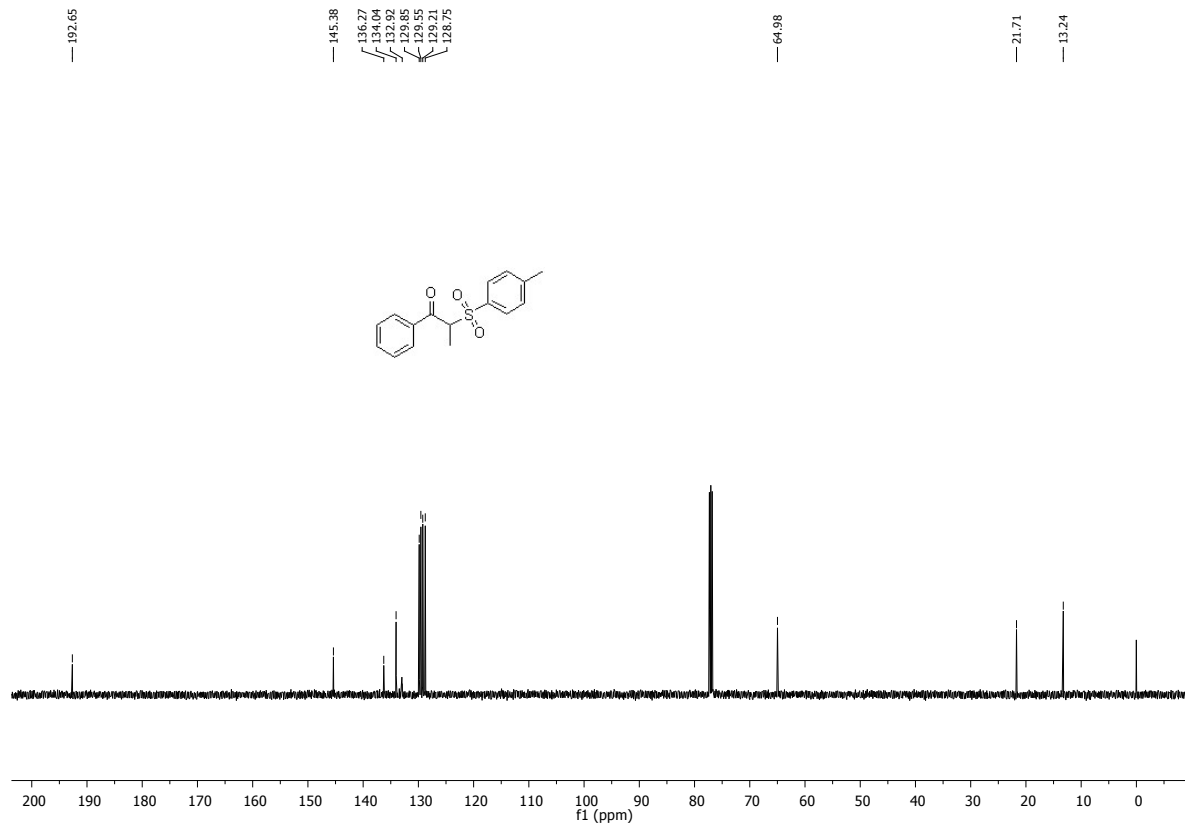
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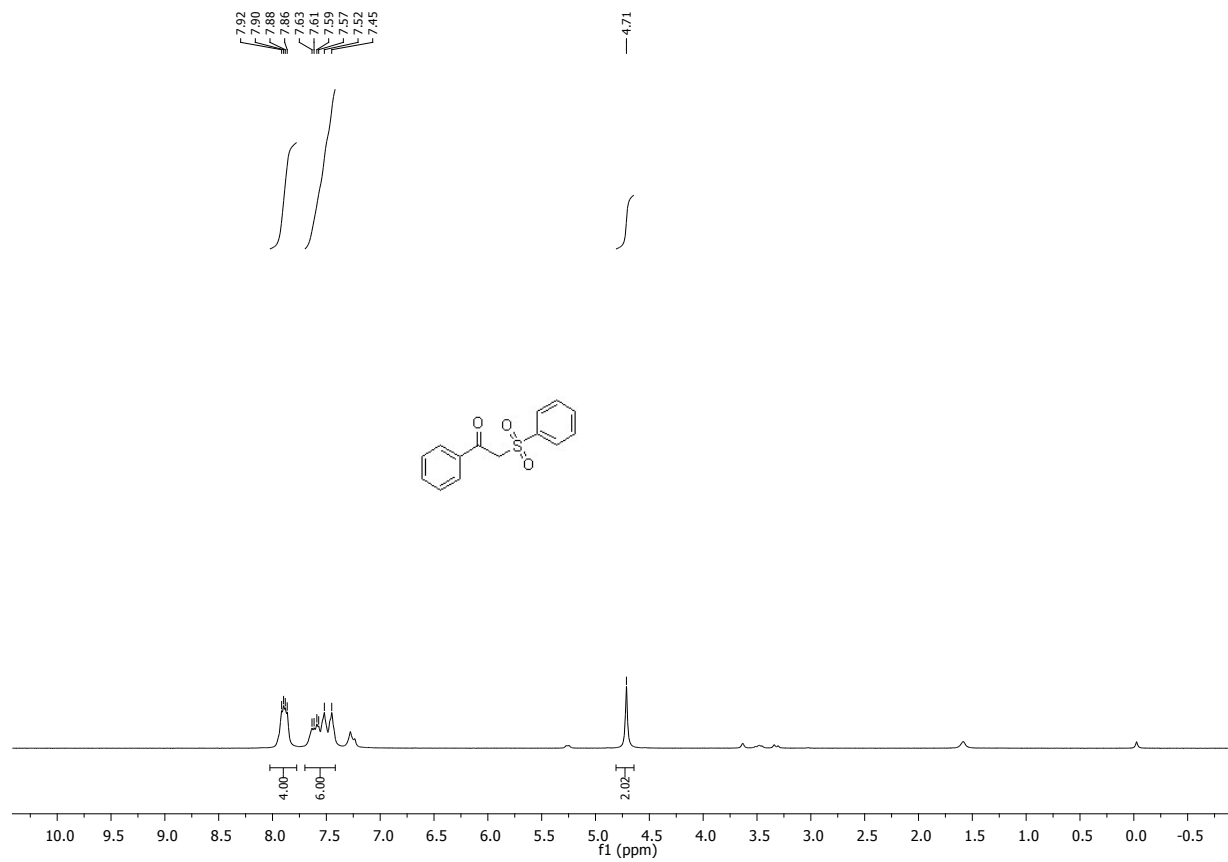
¹³C spectrum 3k



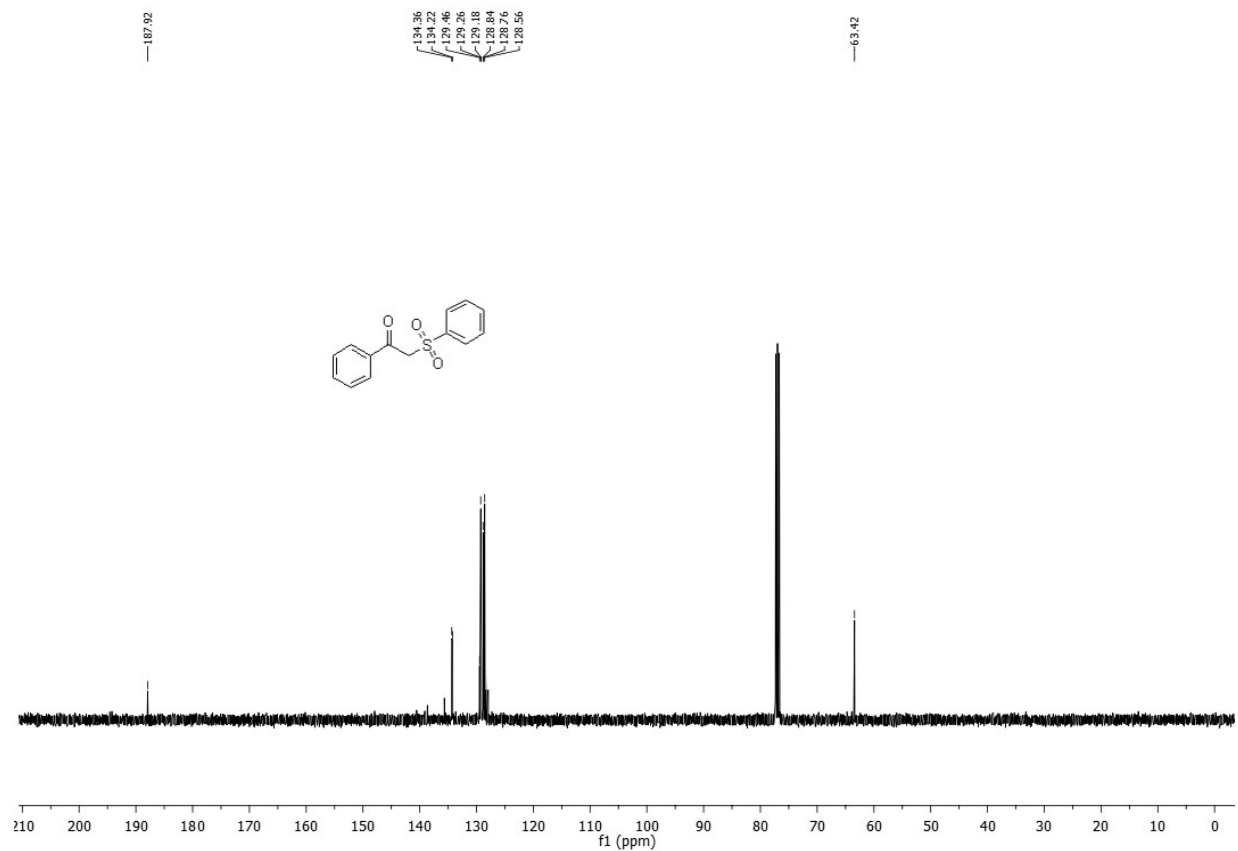
¹H spectrum 31



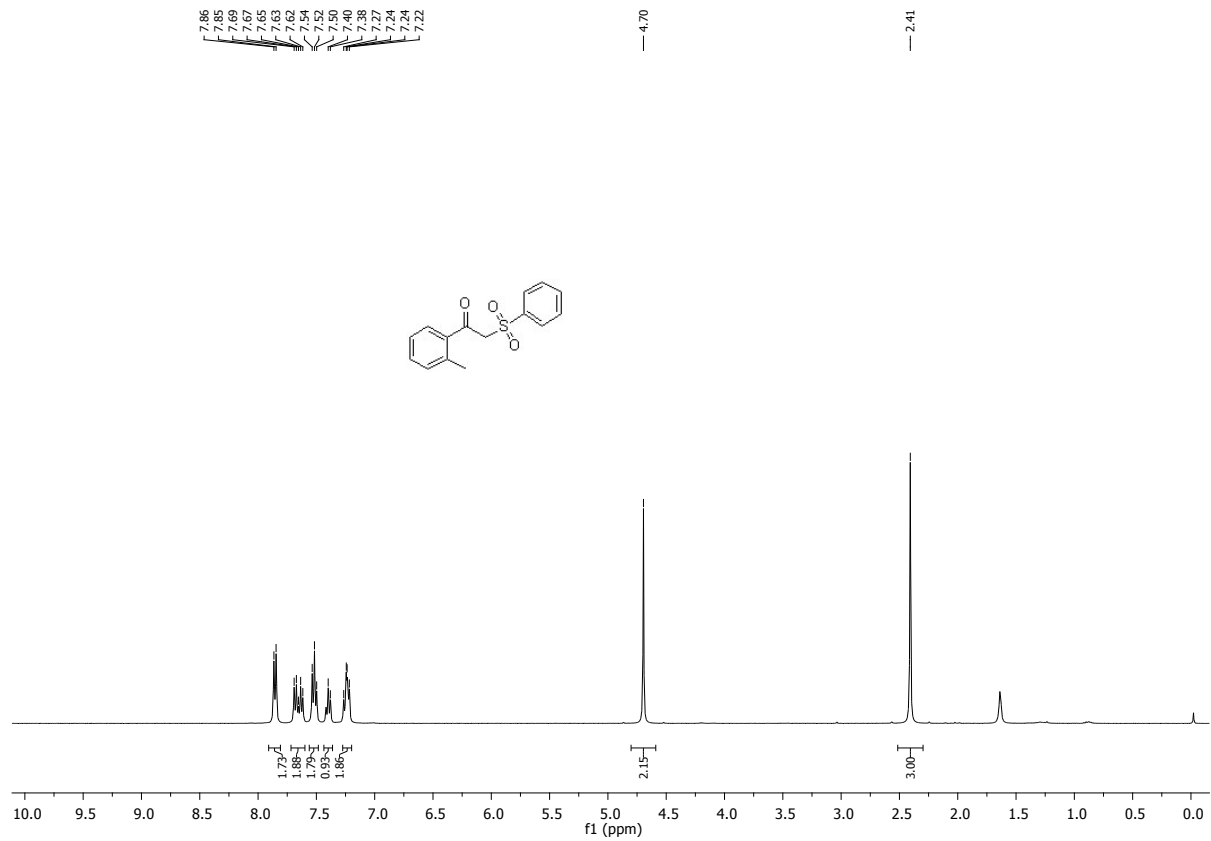
¹³C spectrum 3I



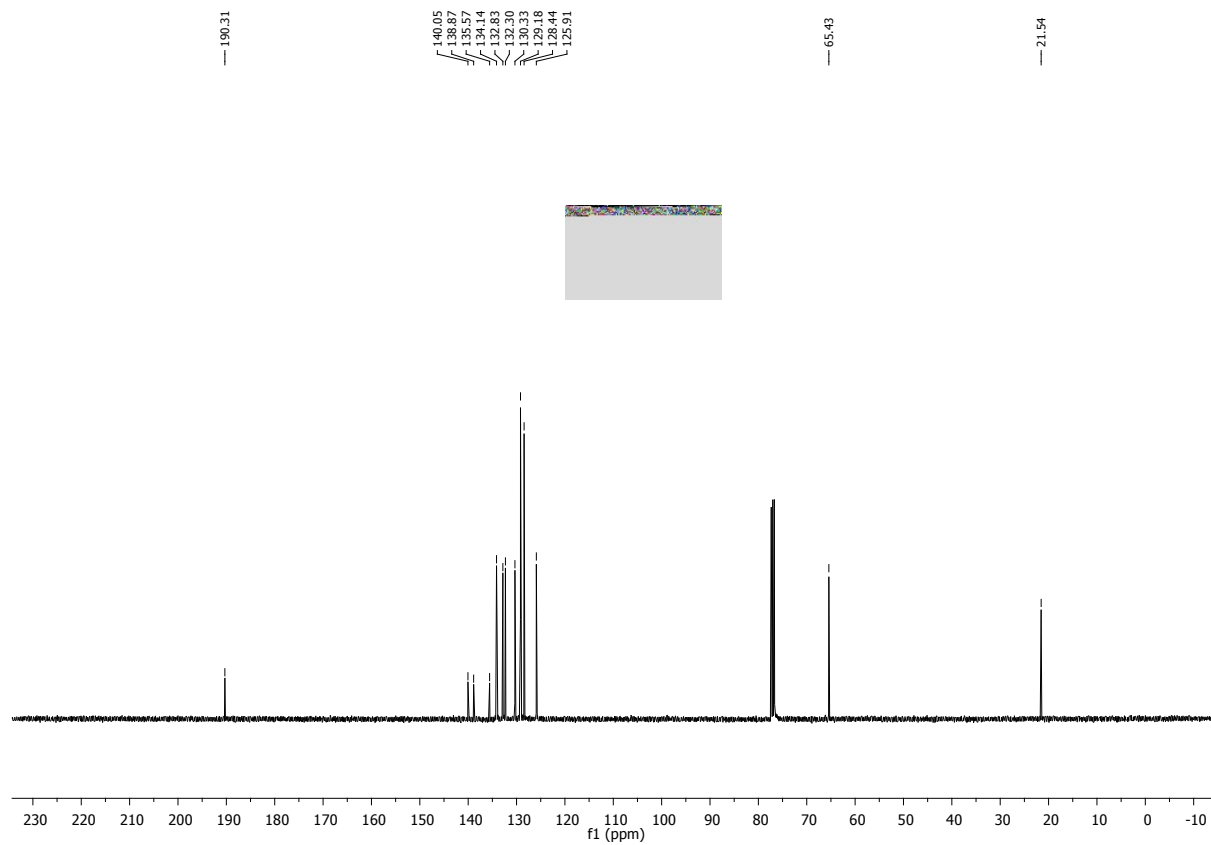
¹H spectrum 3m



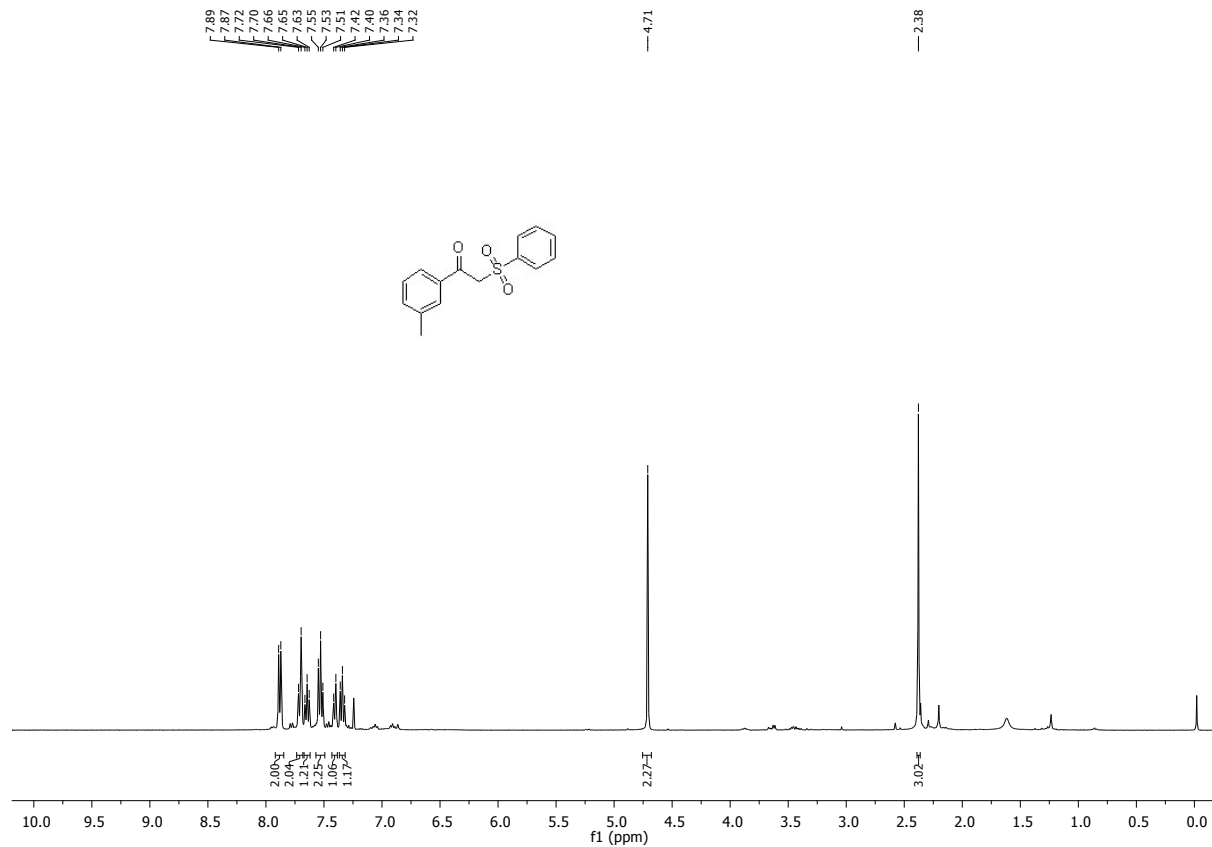
¹³C spectrum 3m



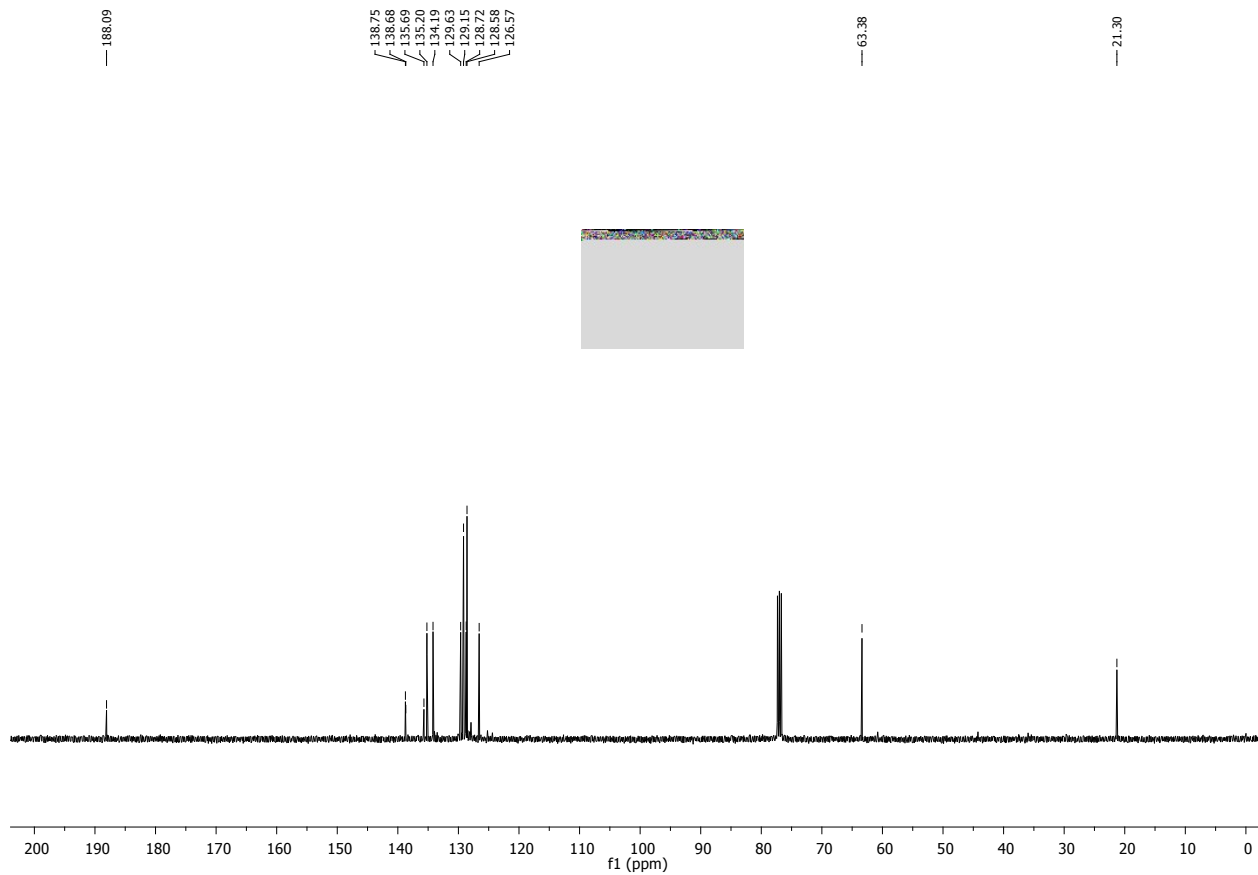
¹H spectrum 3n



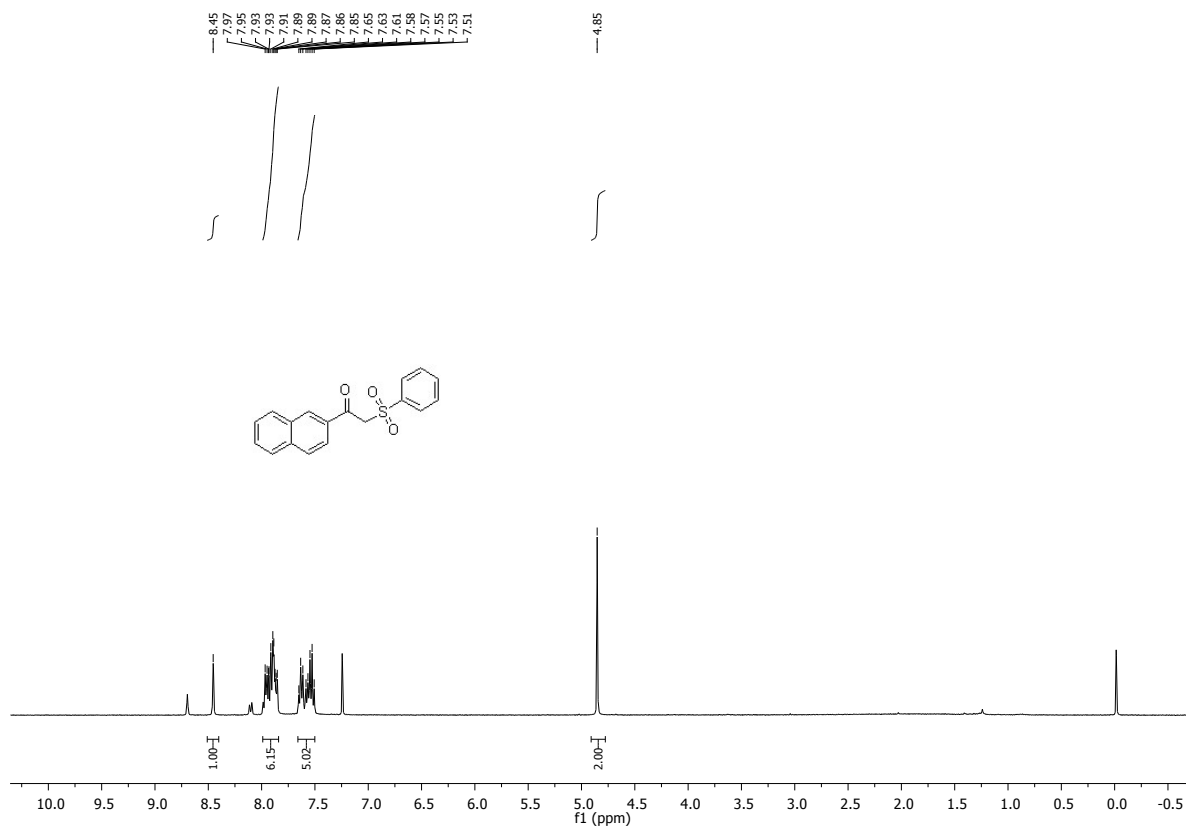
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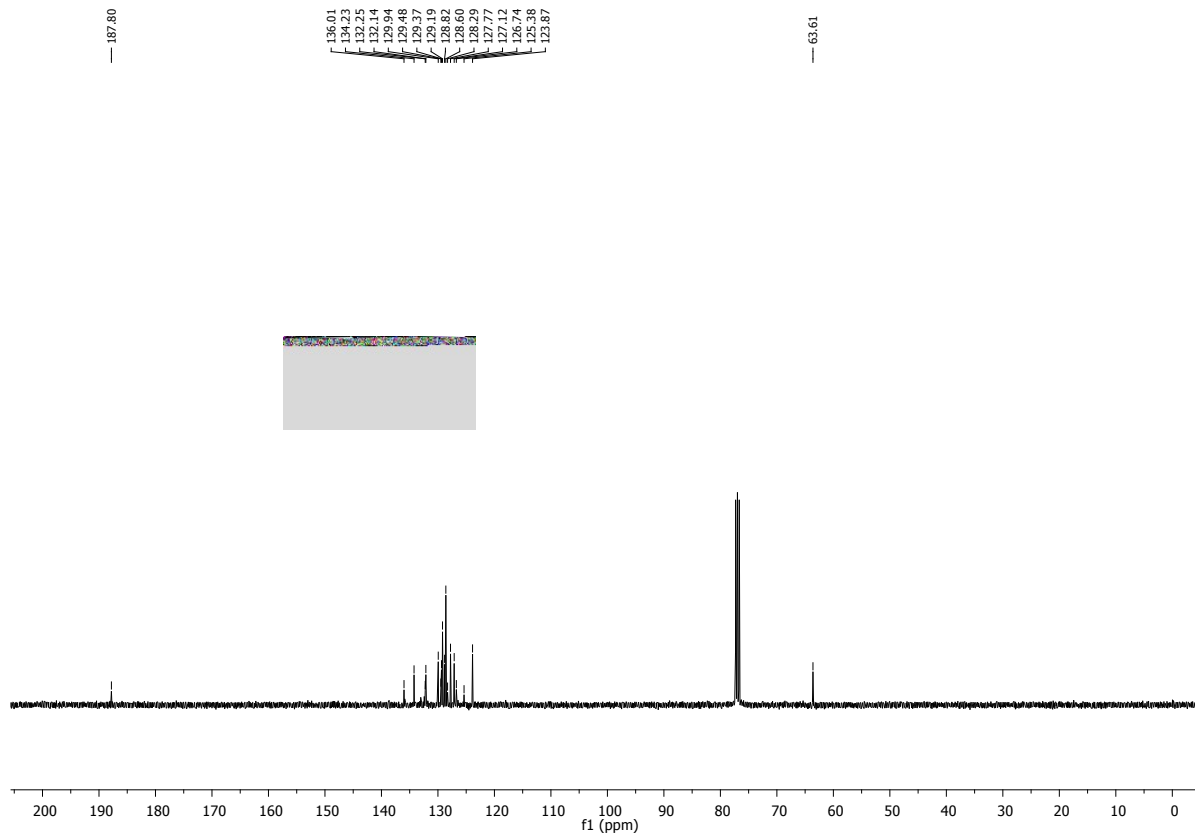
¹H spectrum 30



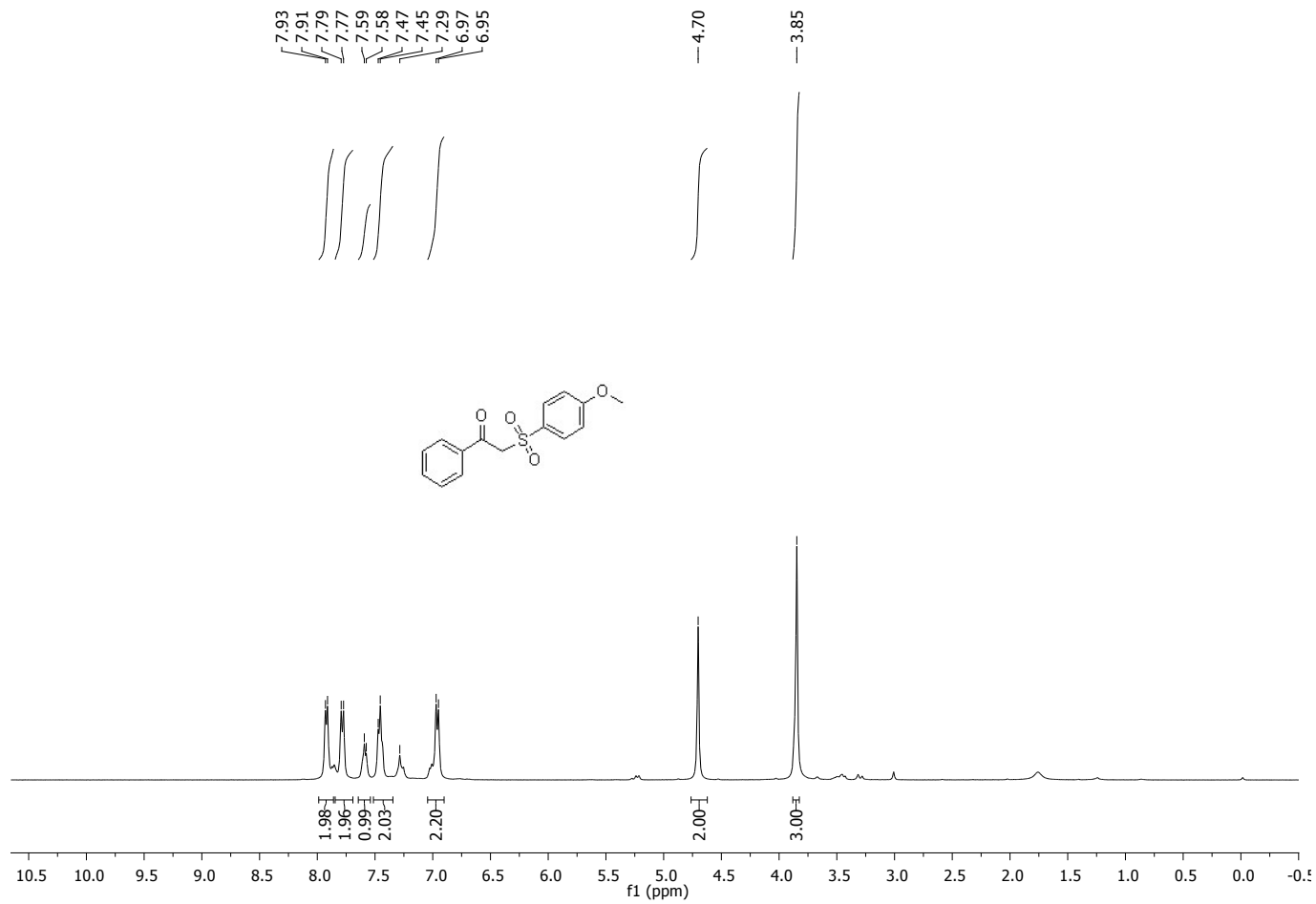
¹³C spectrum 3o



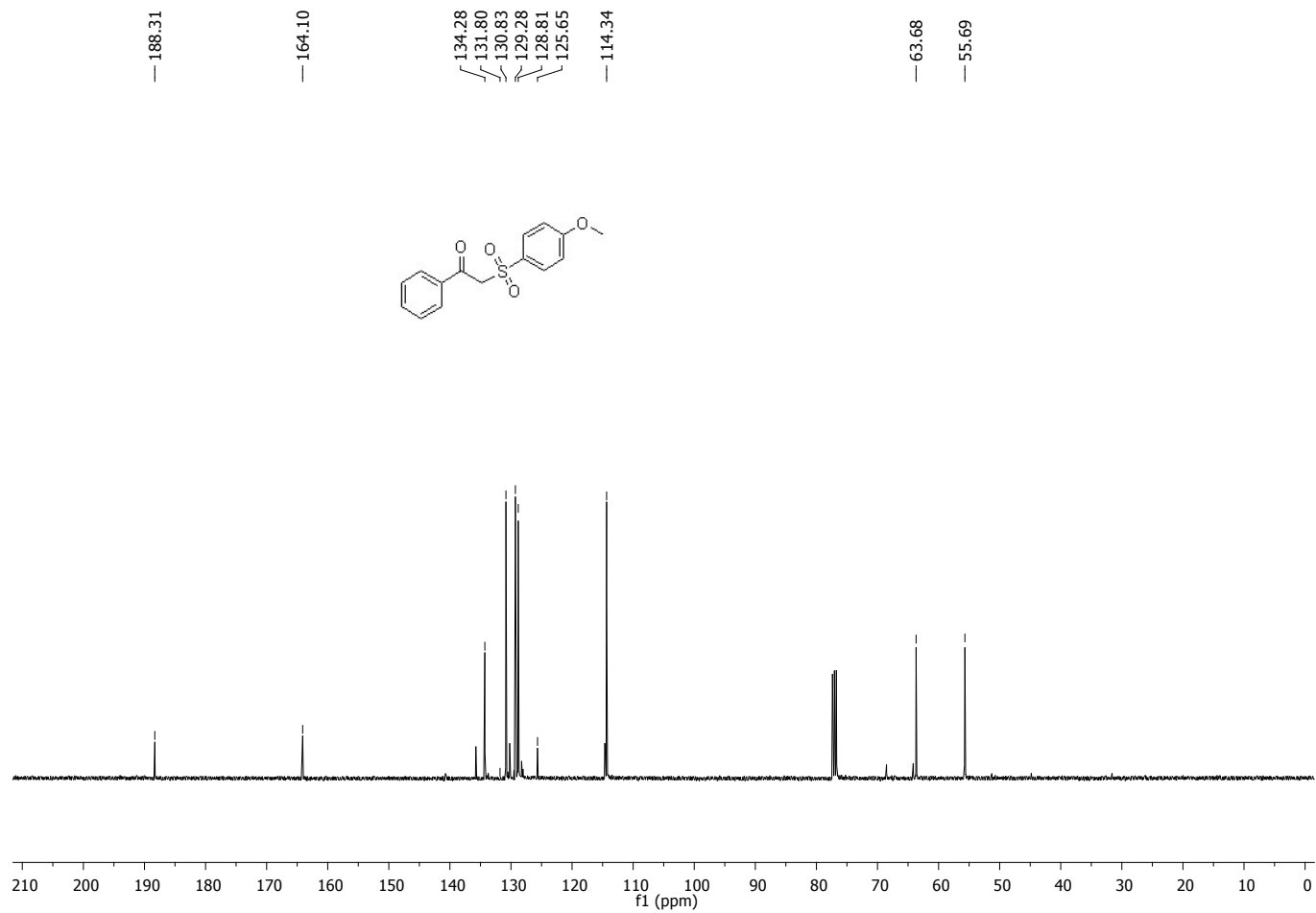
¹H spectrum 3p



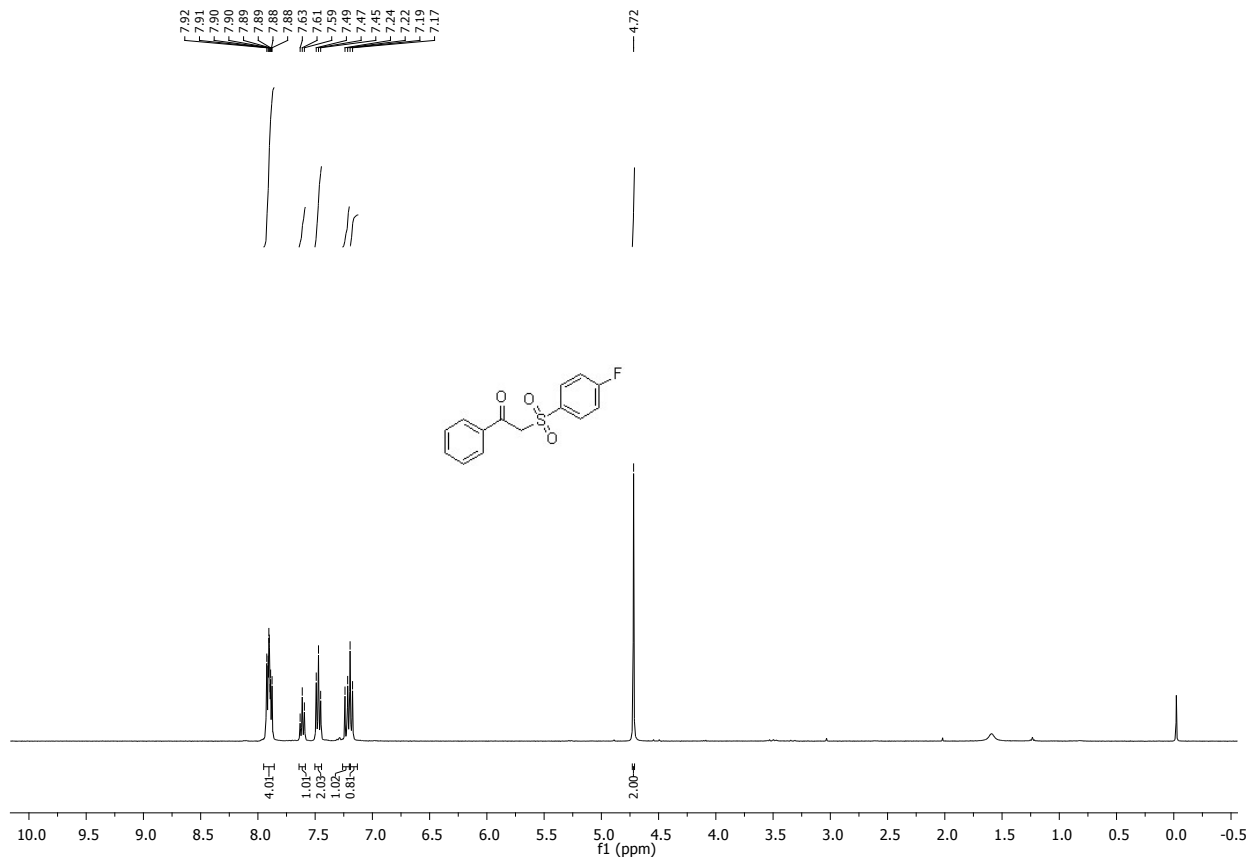
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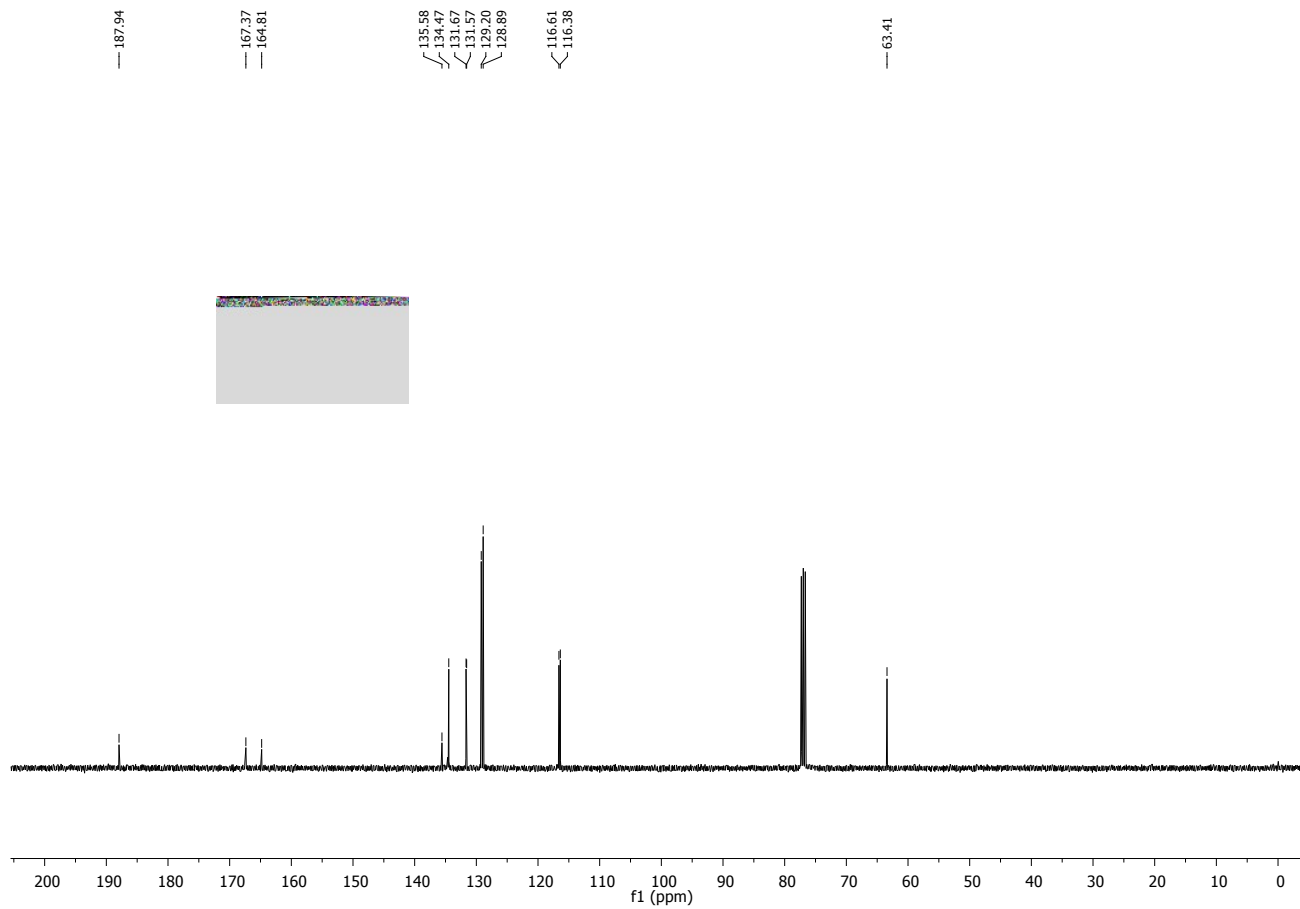
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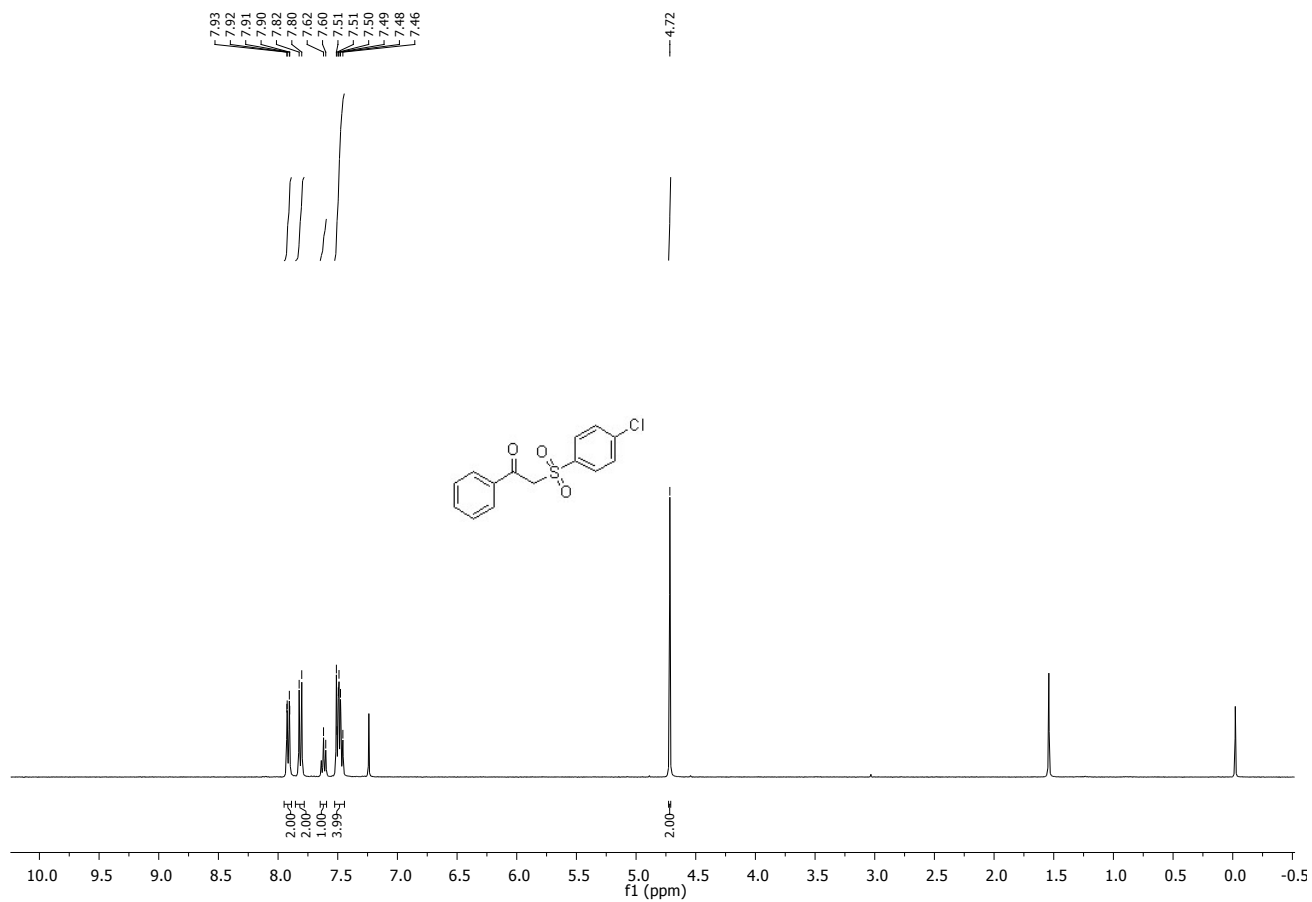
^{13}C spectrum 3q



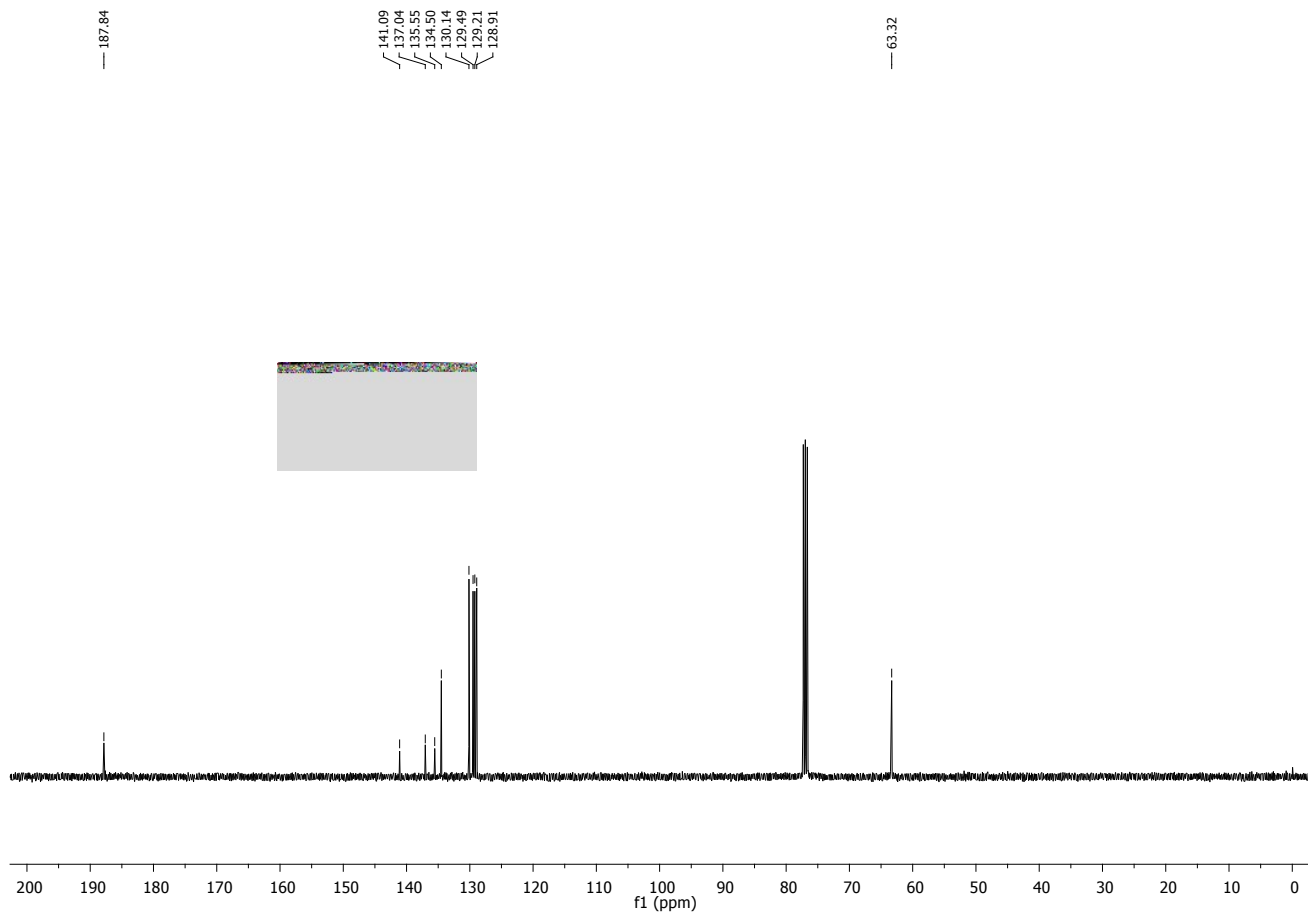
¹H spectrum 3r



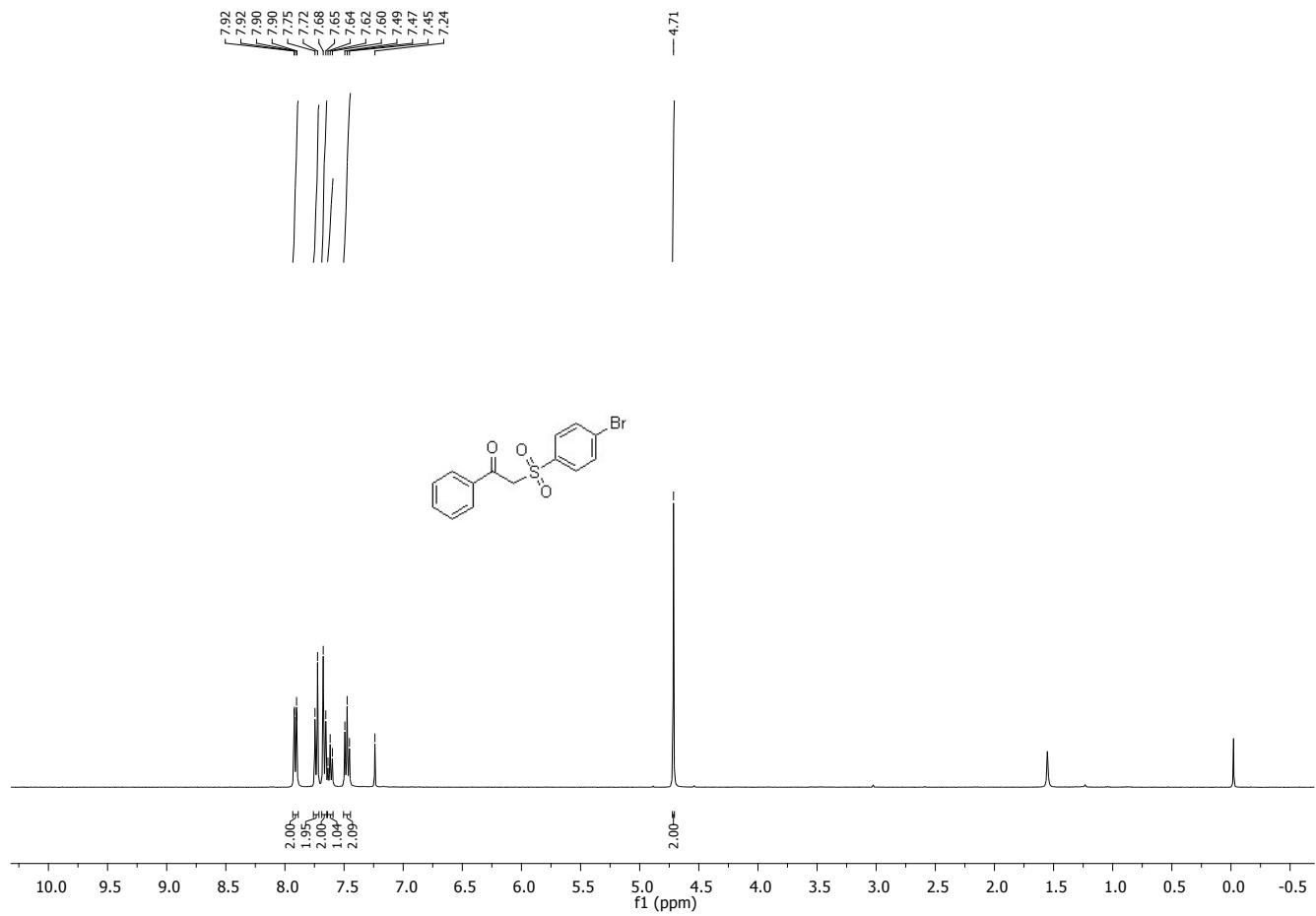
¹³C spectrum 3r



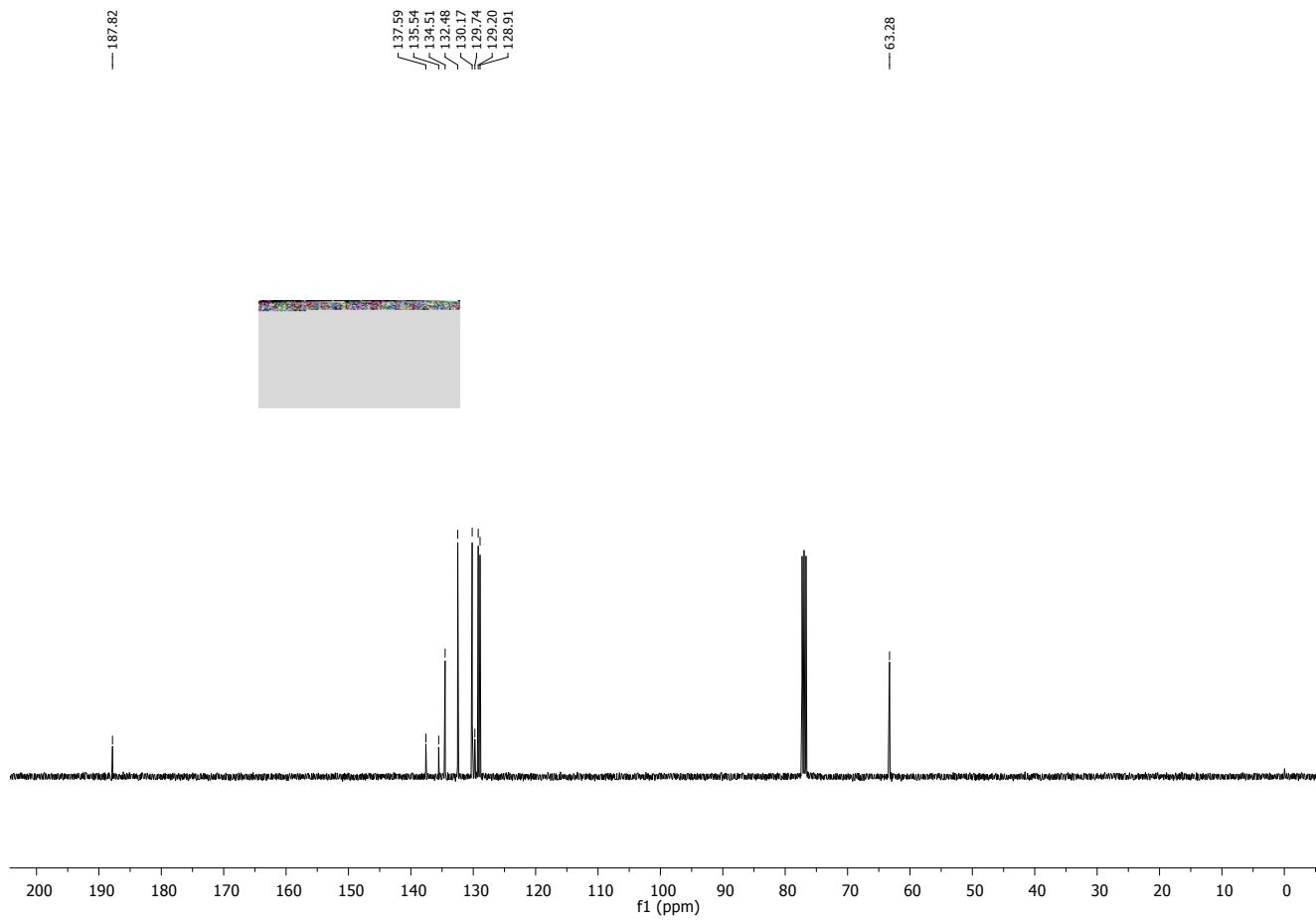
¹H spectrum 3s



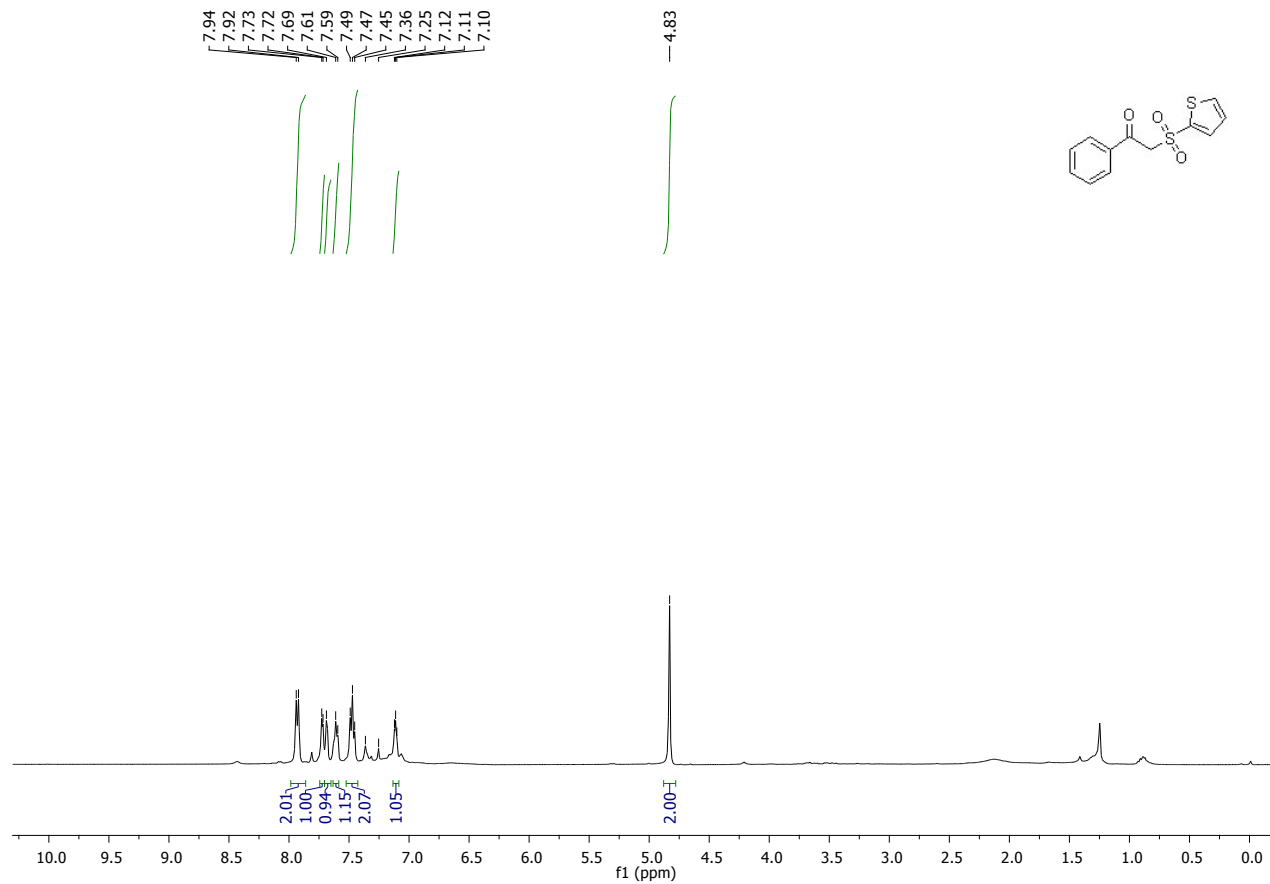
¹³C spectrum 3s



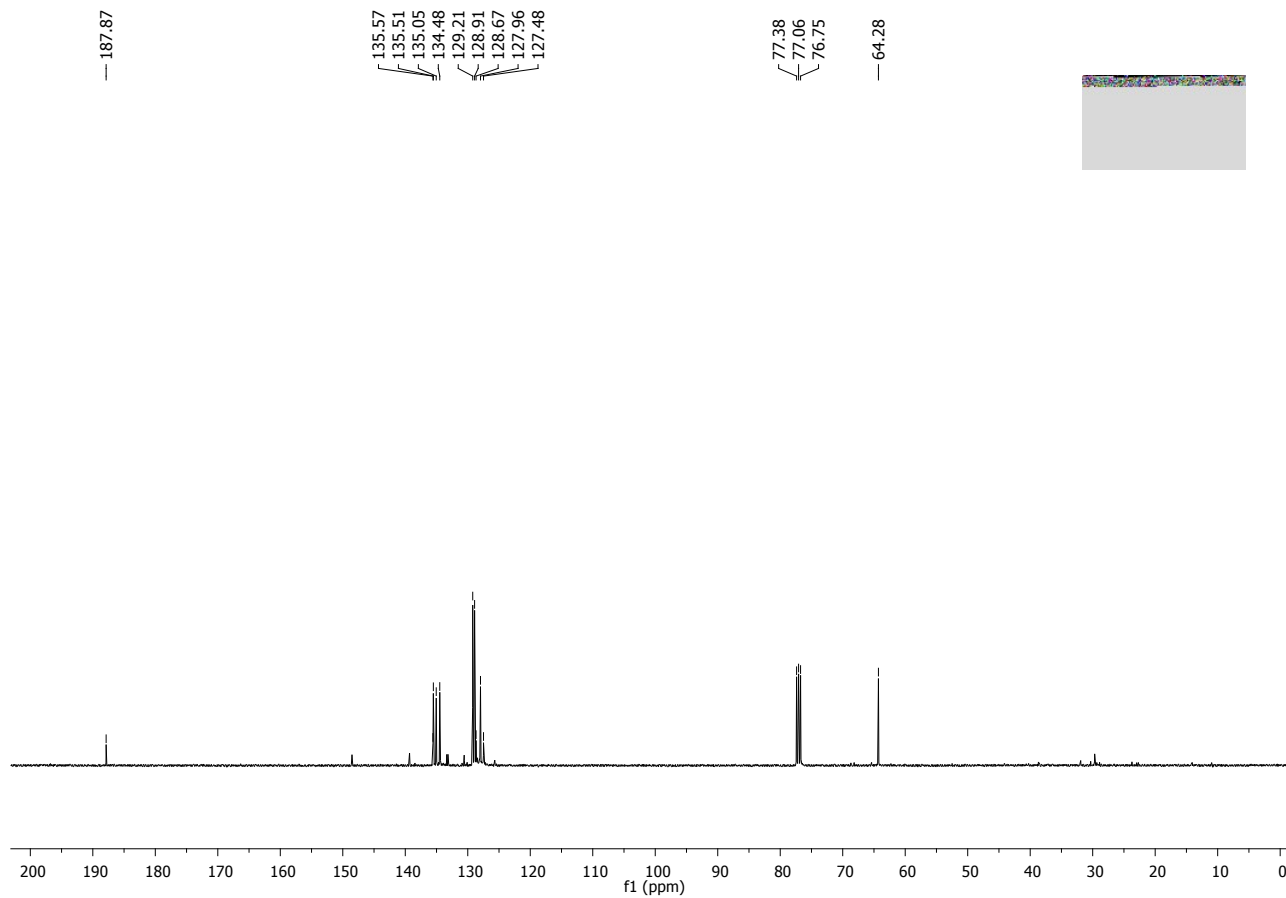
¹H spectrum 3t



^{13}C spectrum 3t



¹H spectrum 3u



^{13}C spectrum 3u