

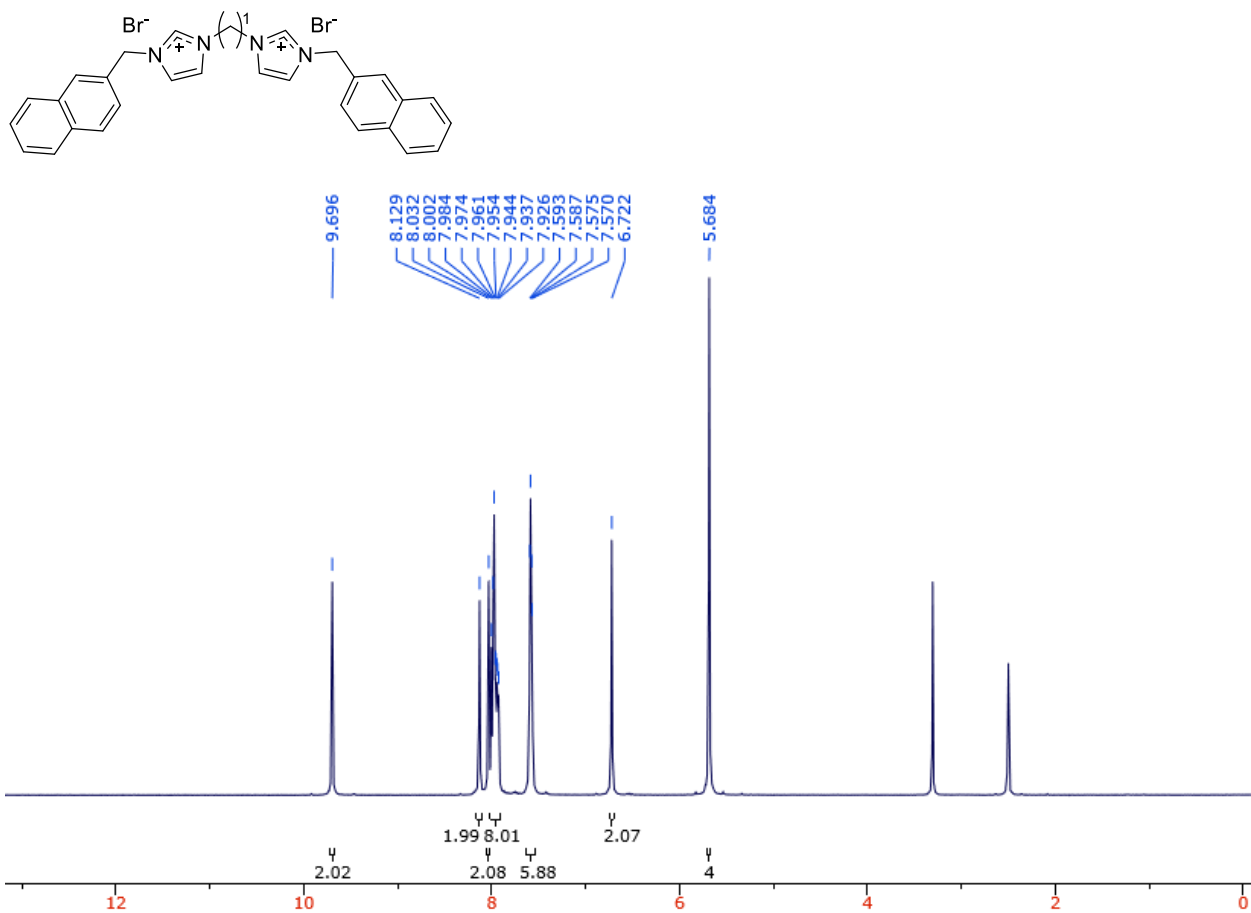
**Synthesis, characterization, *in vitro* SAR study, and preliminary *in vivo* toxicity evaluation of naphthylmethyl substituted bis-imidazolium salts**

Marie R. Southerland\*, Michael A. DeBord\*, Nicholas A. Johnson, Steven R. Crabtree, Nicolas E. Alexander, Michael L. Stromyer, Patrick O. Wagers, Matthew J. Panzner, Chrys Wesdemiotis, Leah P. Shriver, Claire A. Tessier, Wiley J. Youngs

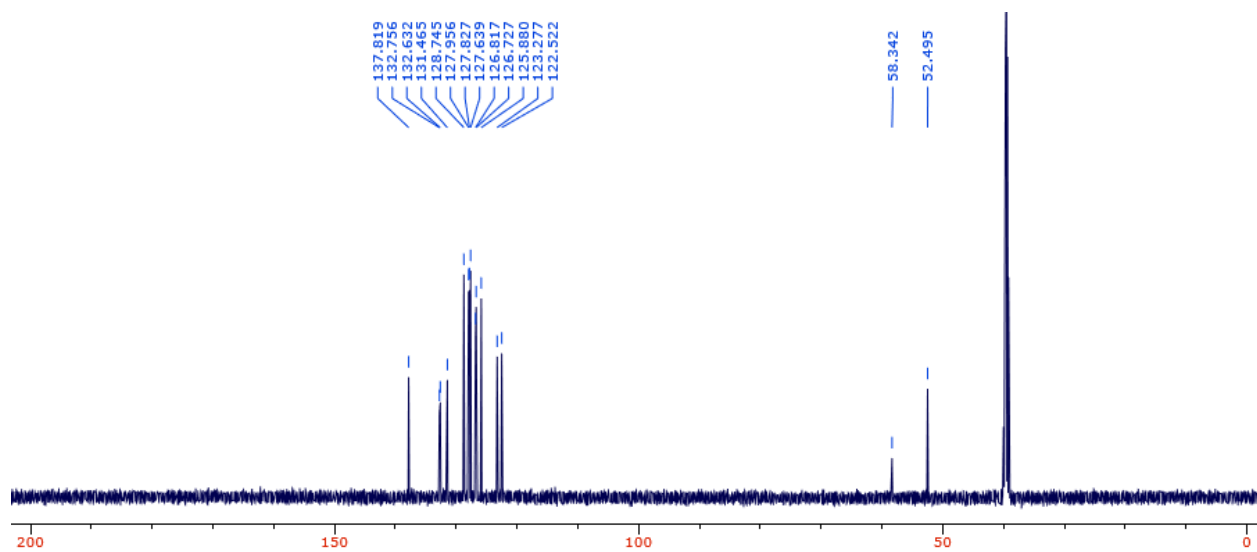
\* Authors contributed equally to this manuscript

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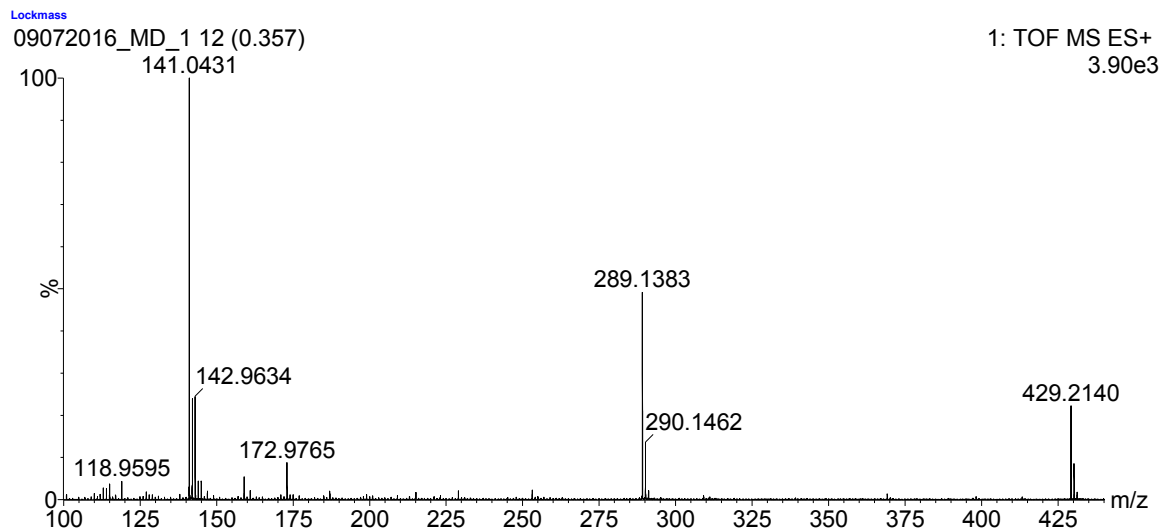
(A) <sup>1</sup> H NMR of compounds 1-12 (excluding 9 and 11).....	SI 1a – 10a
(B) <sup>13</sup> C NMR of compounds 1-12 (excluding 9 and 11).....	SI 1b – 10b
(C) HRMS of compounds 1-12 (excluding 8, 9 and 11).....	SI 1c – 7c, 9c, 10c
(D) Average weight gain chart with error bars.....	SI 11
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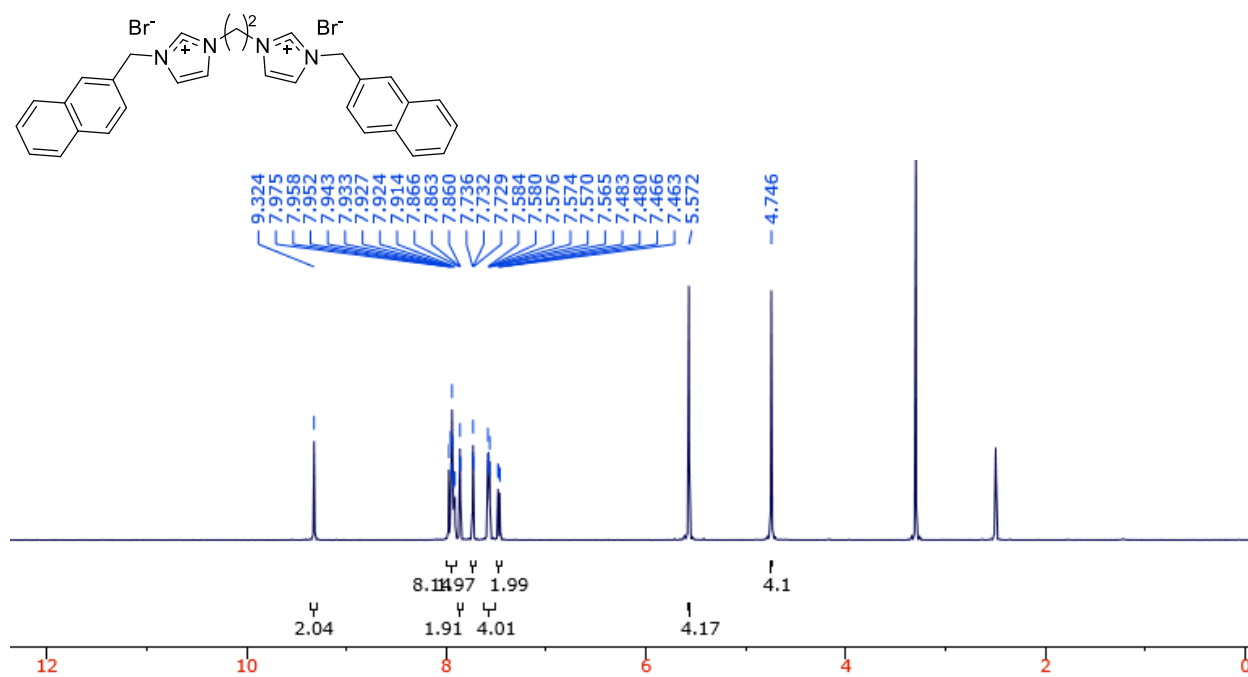
**SI 1a.**  $^1\text{H}$  NMR spectrum of compound **1**



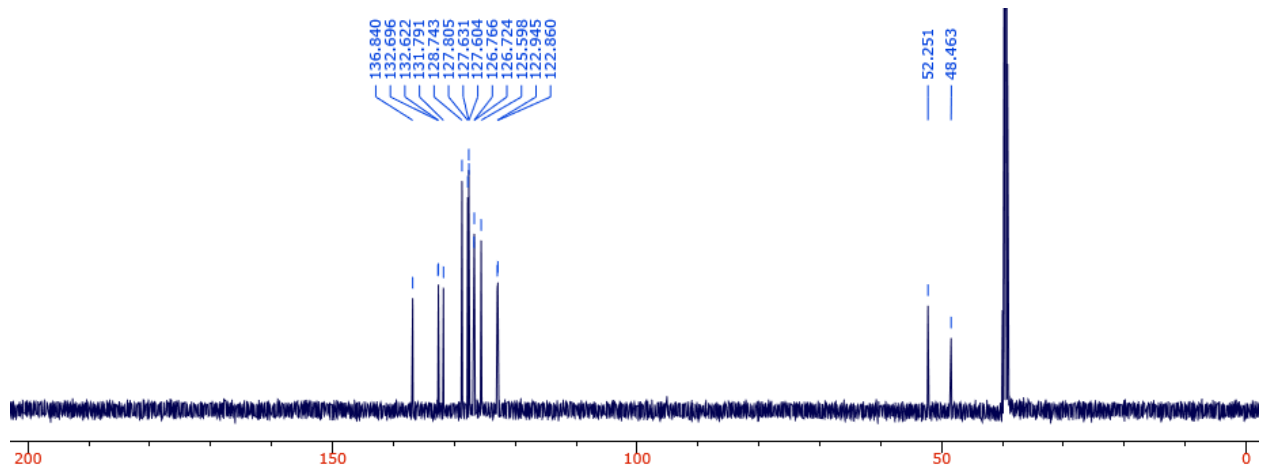
**SI 1b.**  $^{13}\text{C}$  NMR spectrum of compound **1**



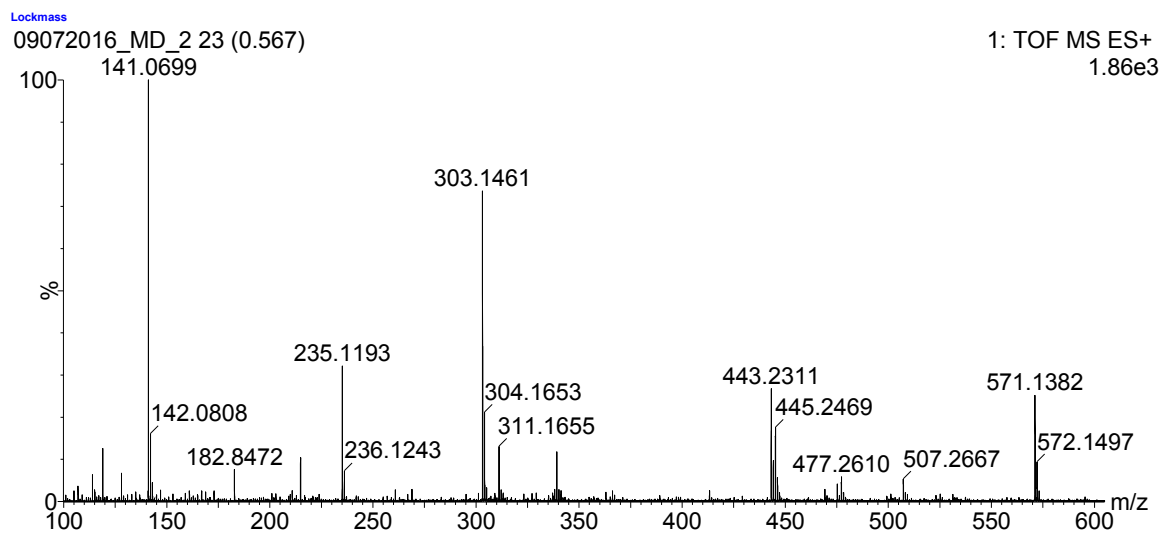
SI 1c. HRMS of compound 1



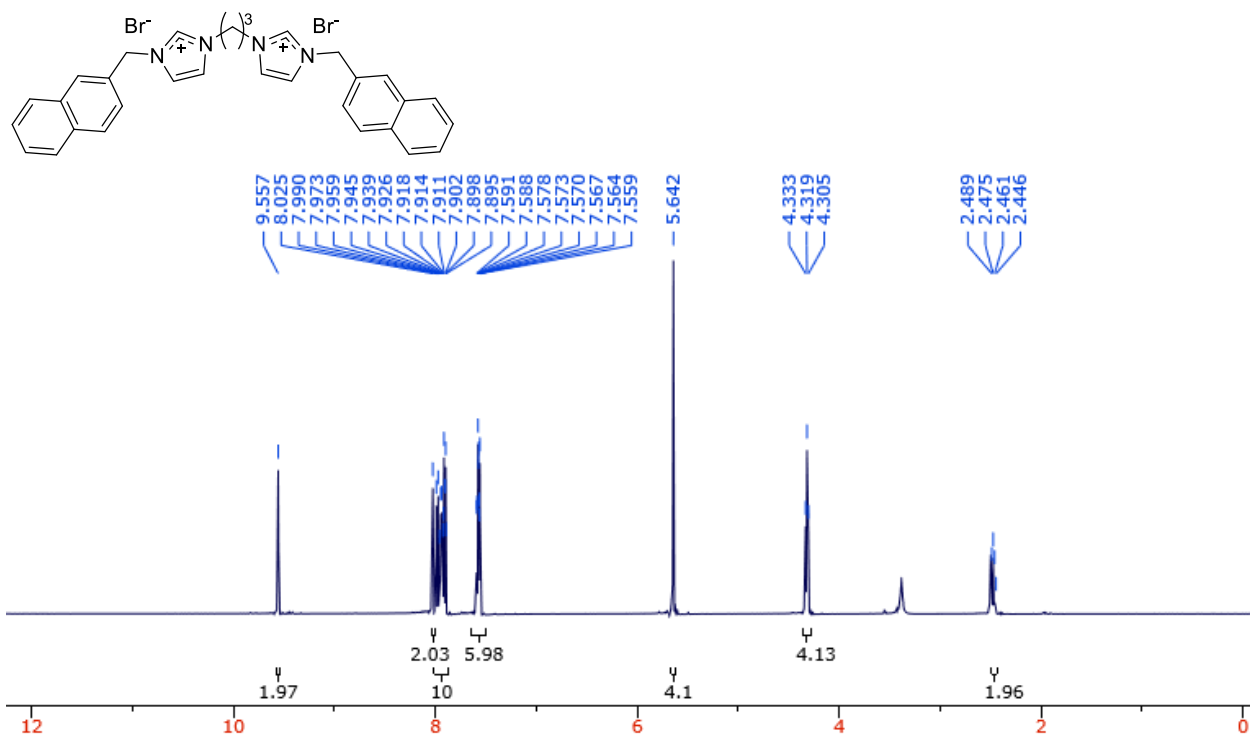
SI 2a. <sup>1</sup>H NMR spectrum of compound 2



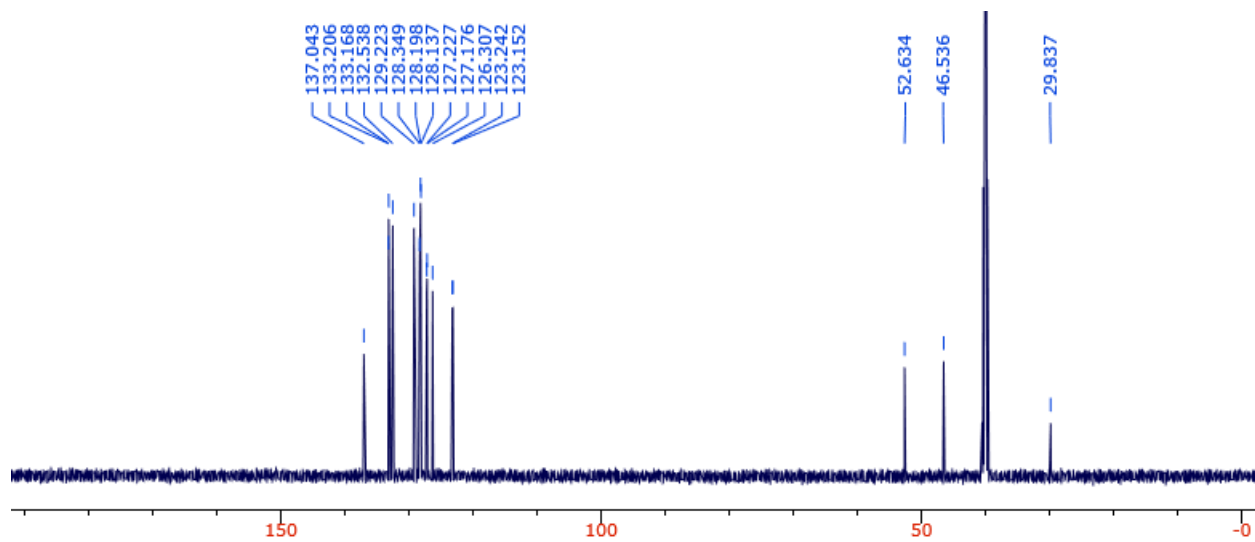
SI 2b.  $^{13}\text{C}$  NMR spectrum of compound 2



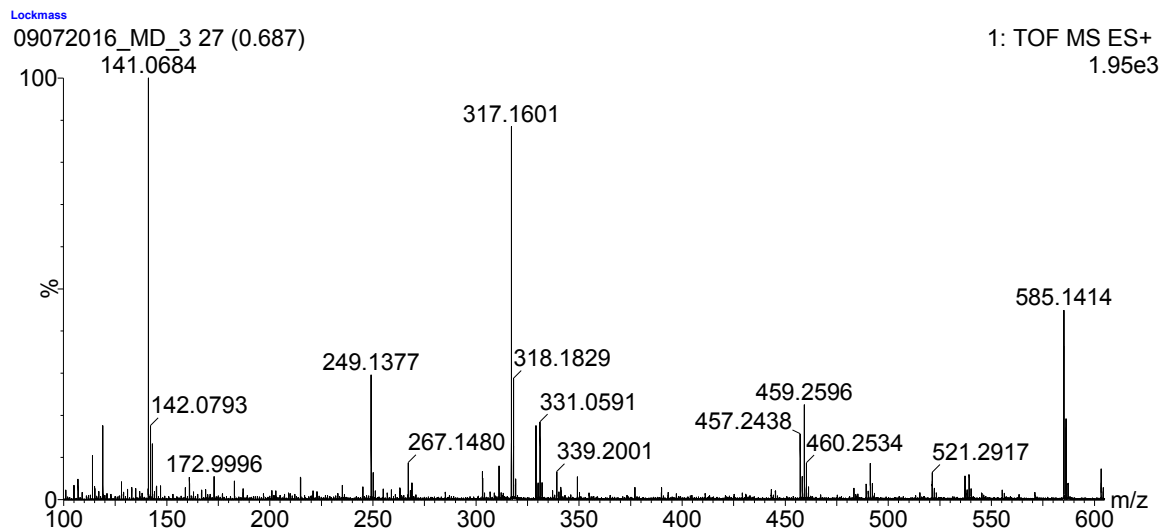
SI 2c. HRMS of compound 2



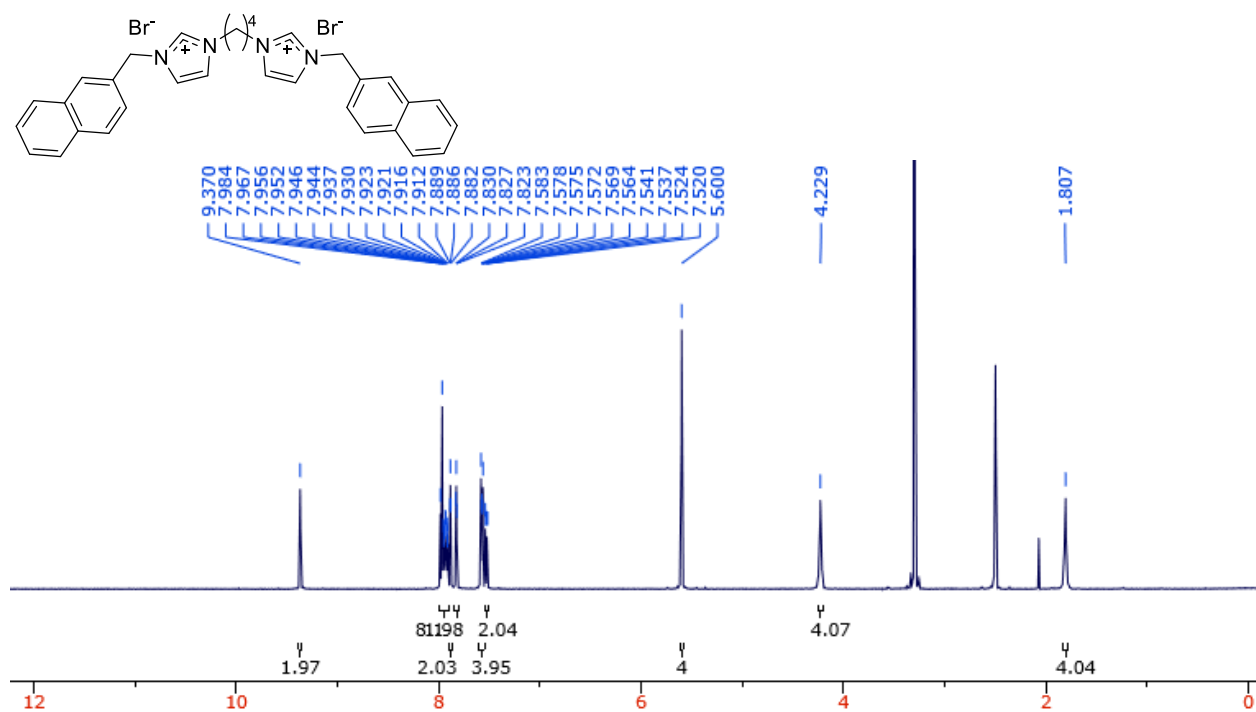
SI 3a. <sup>1</sup>H NMR spectrum of compound 3



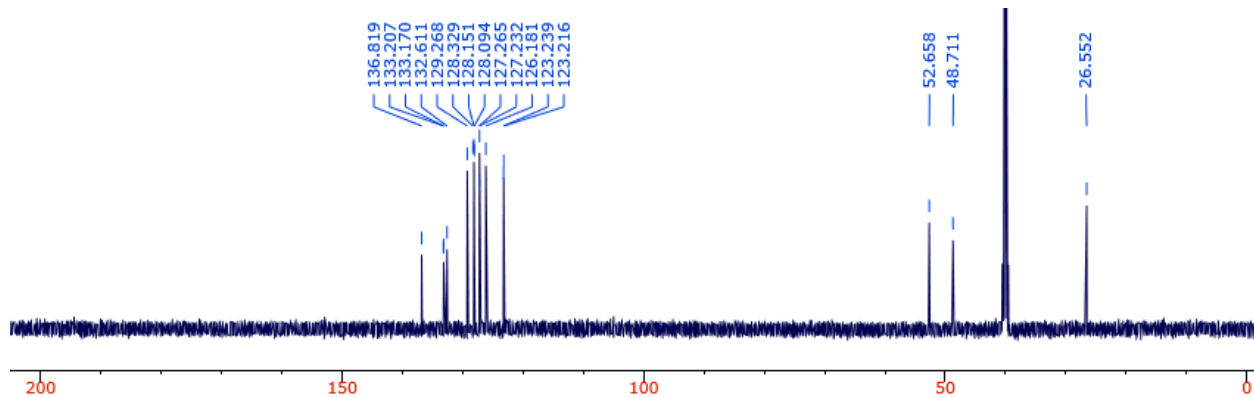
SI 3b. <sup>13</sup>C NMR spectrum of compound 3



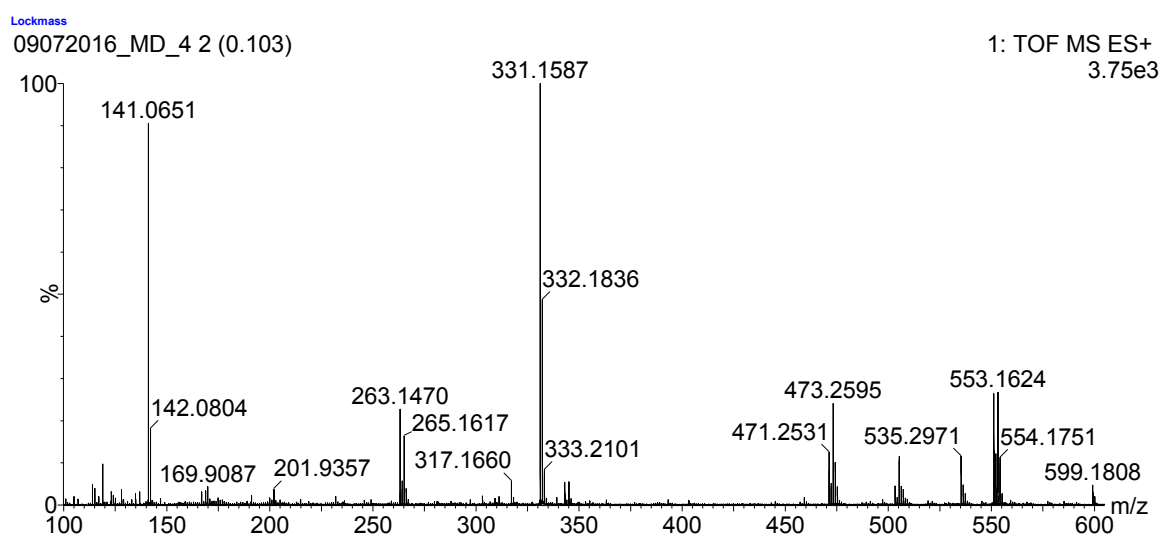
SI 3c. HRMS of compound 3



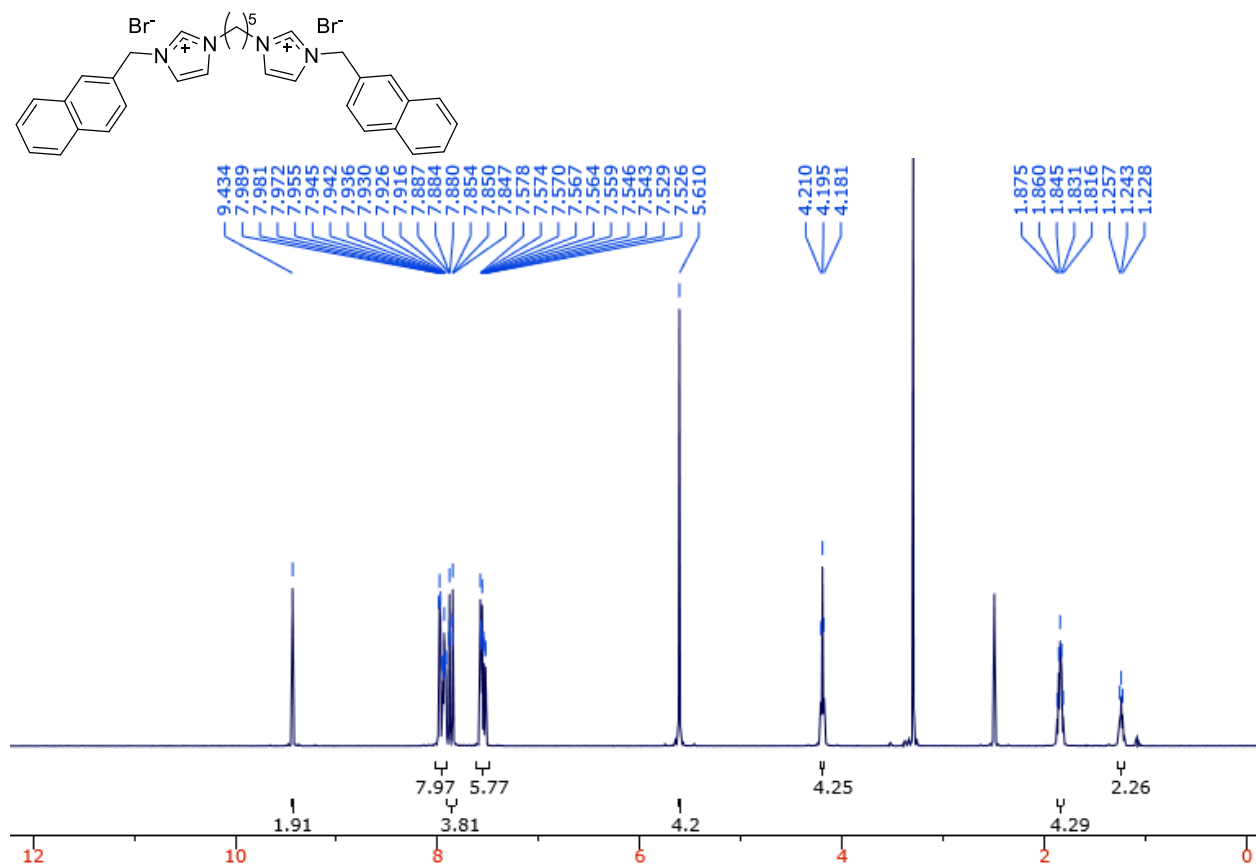
SI 4a. <sup>1</sup>H NMR spectrum of compound 4



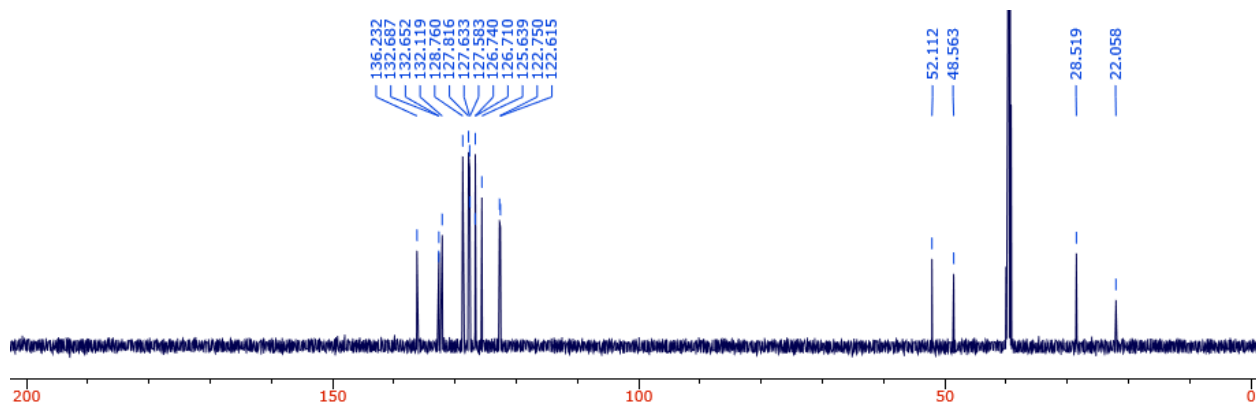
SI 4b. <sup>13</sup>C NMR spectrum of compound 4



SI 4c. HRMS of compound 4



SI 5a. <sup>1</sup>H NMR spectrum of compound 5



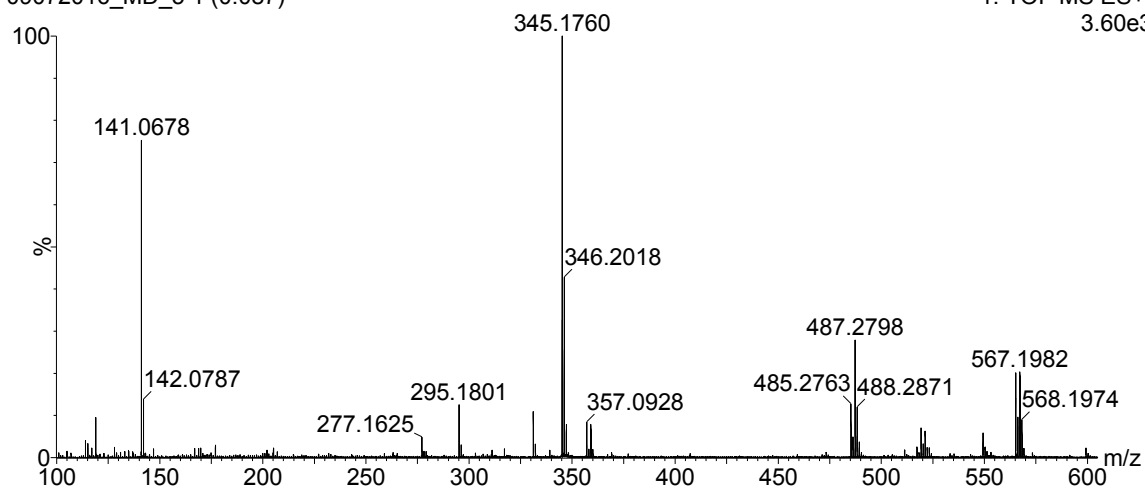
SI 5b. <sup>13</sup>C NMR spectrum of compound 5



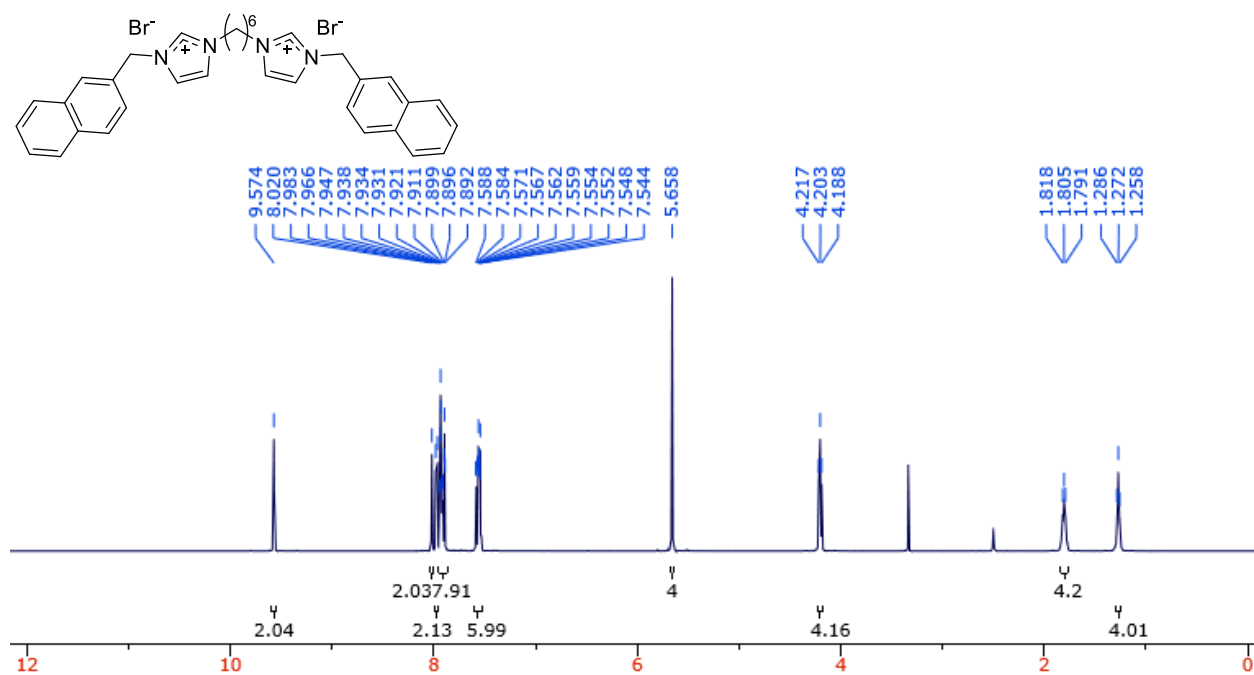
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09072016\_MD\_5 1 (0.087)

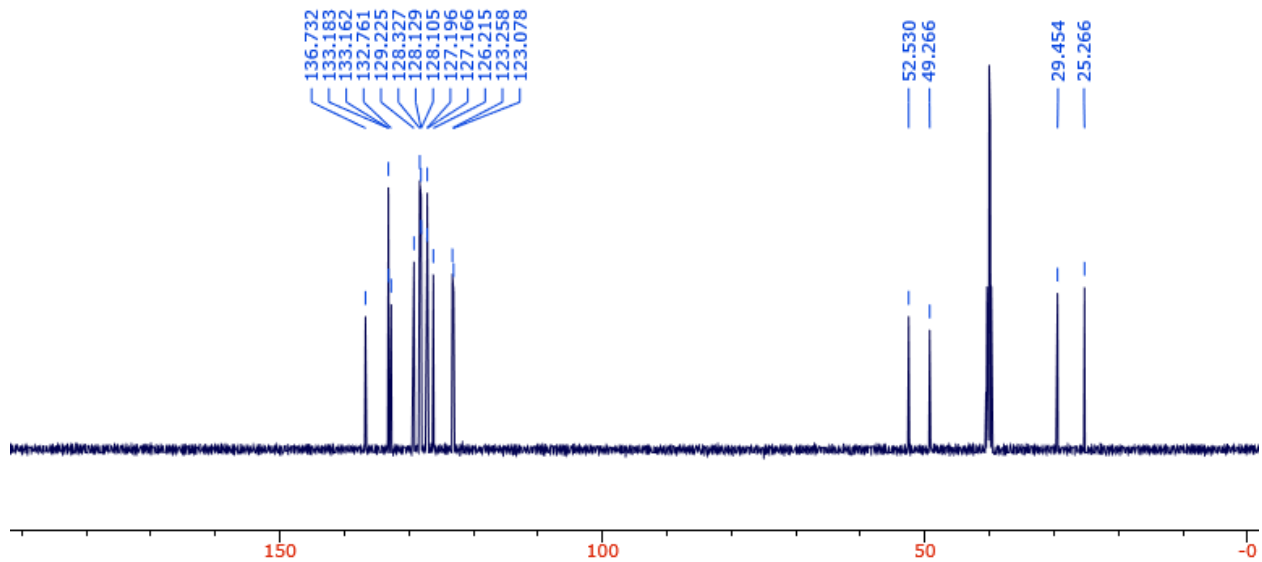
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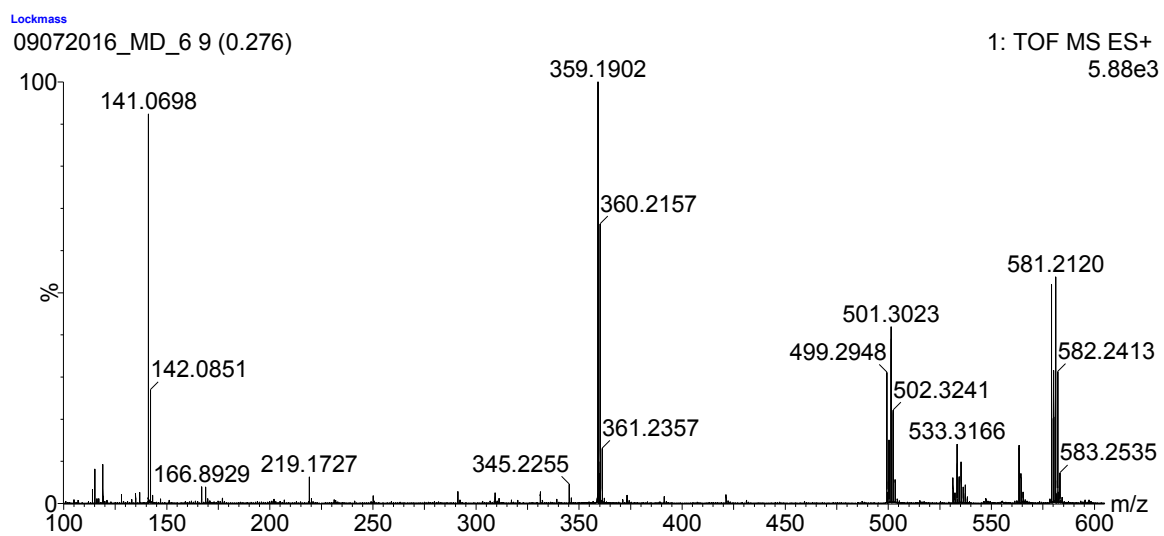
SI 5c. HRMS of compound 5



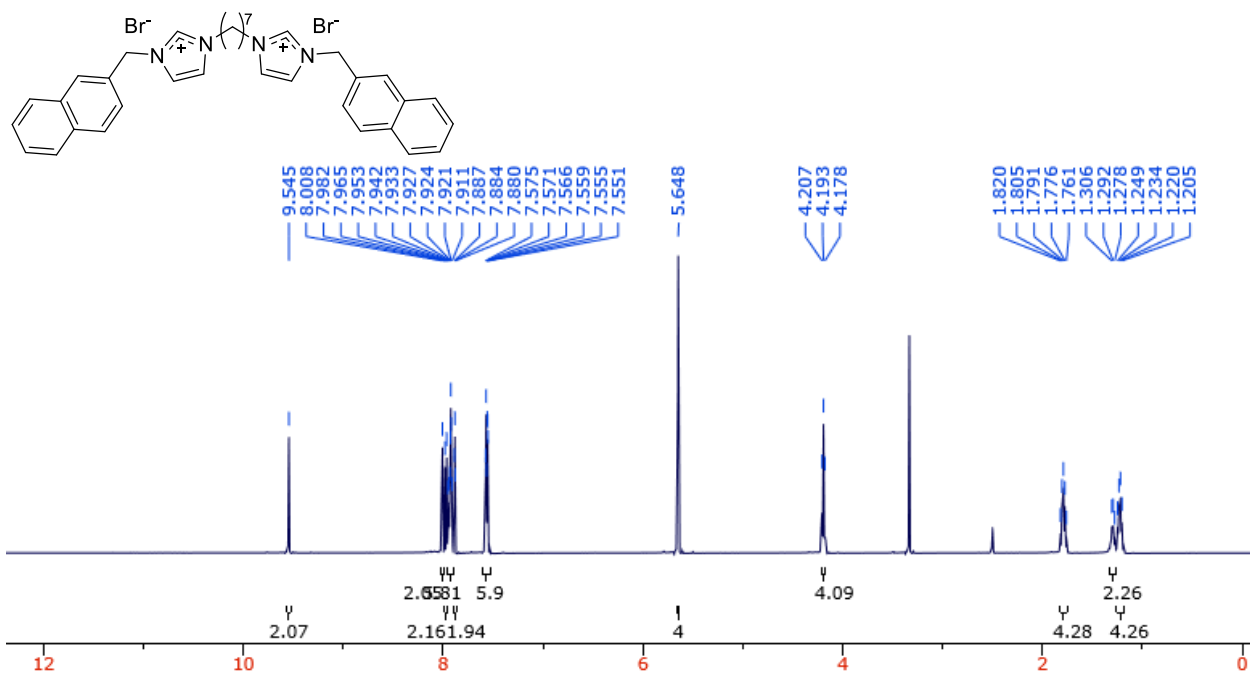
SI 6a. <sup>1</sup>H NMR spectrum of compound 6



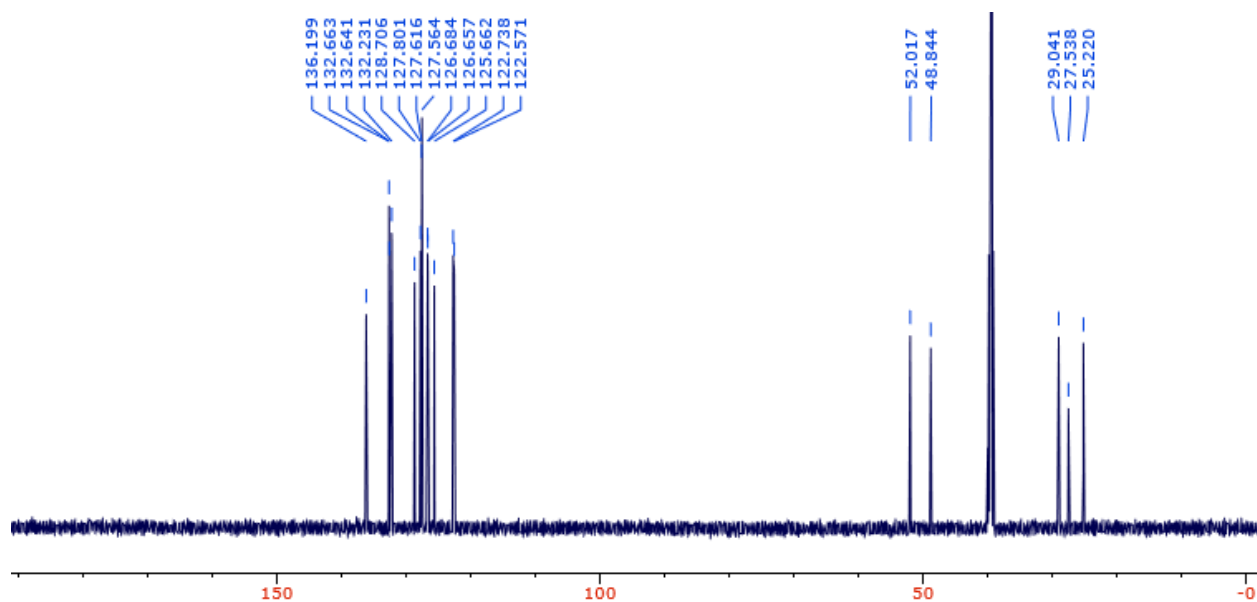
SI 6b.  $^{13}\text{C}$  NMR spectrum of compound 6



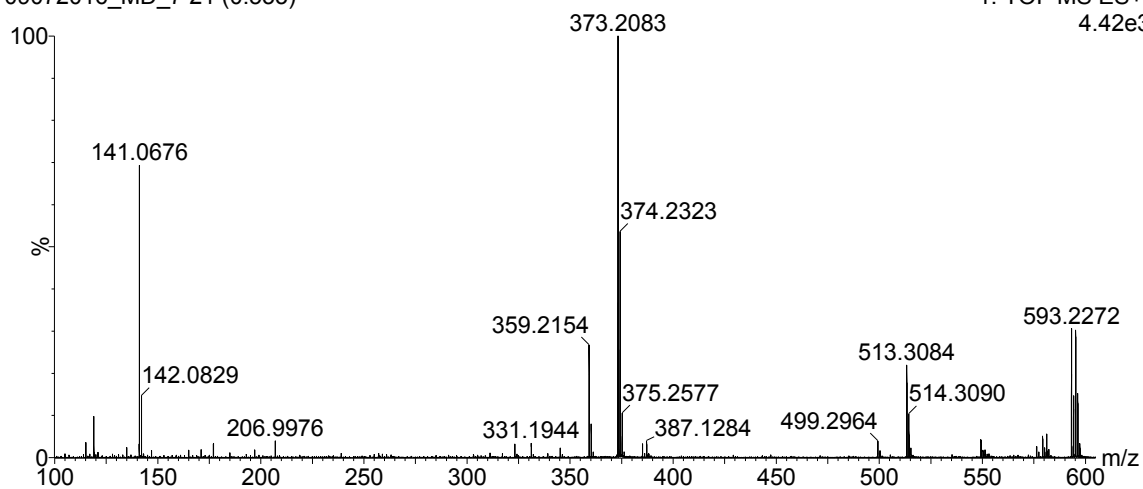
SI 6c. HRMS of compound 6



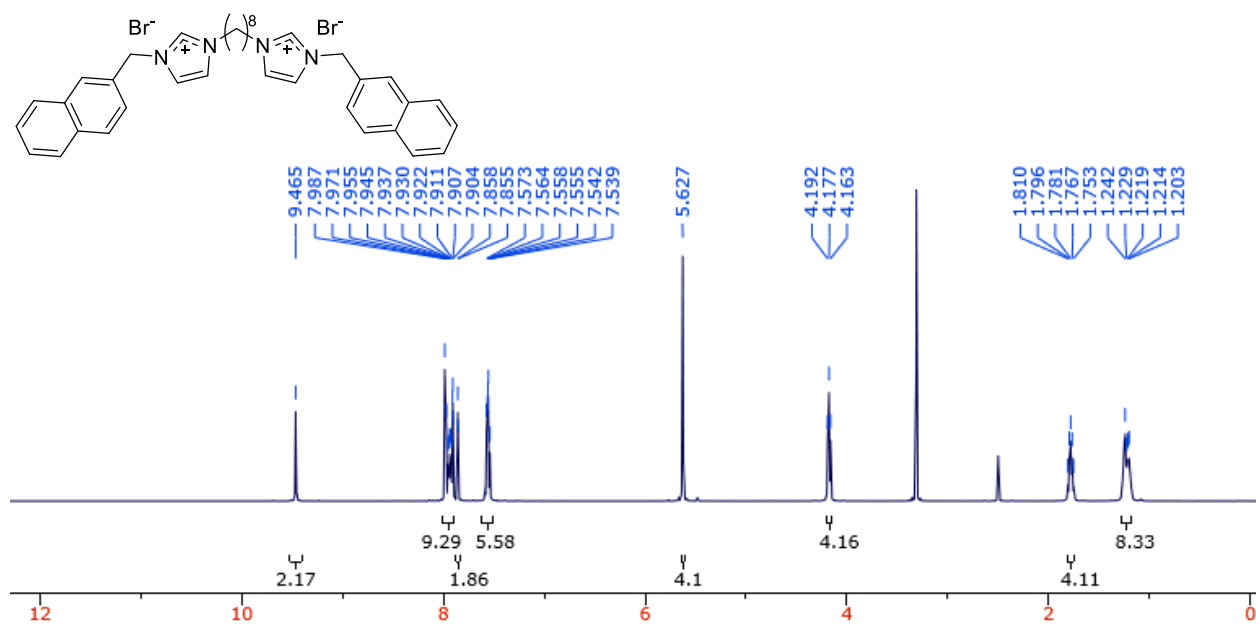
SI 7a. <sup>1</sup>H NMR spectrum of compound 7

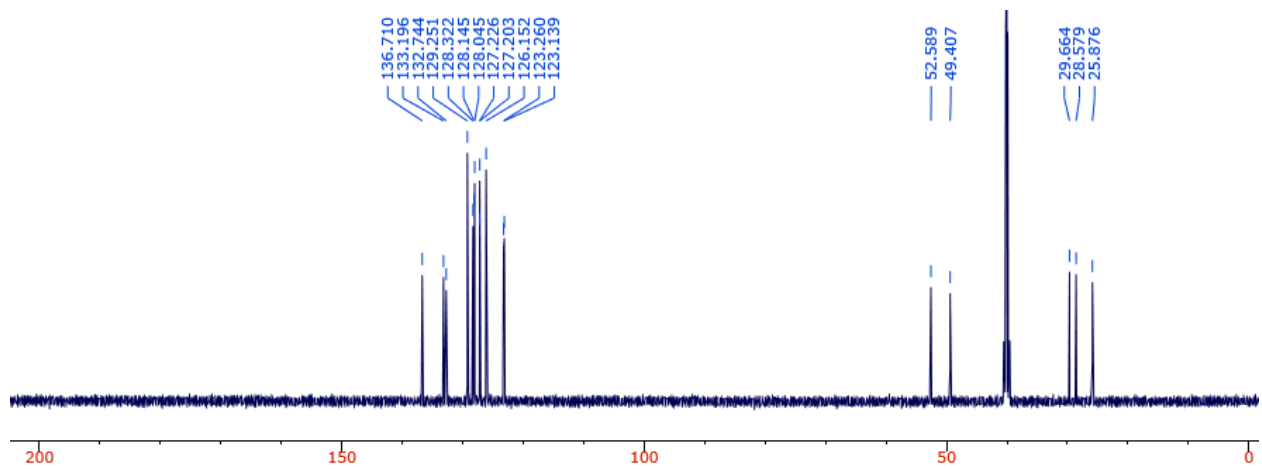


SI 7b. <sup>13</sup>C NMR spectrum of compound 7

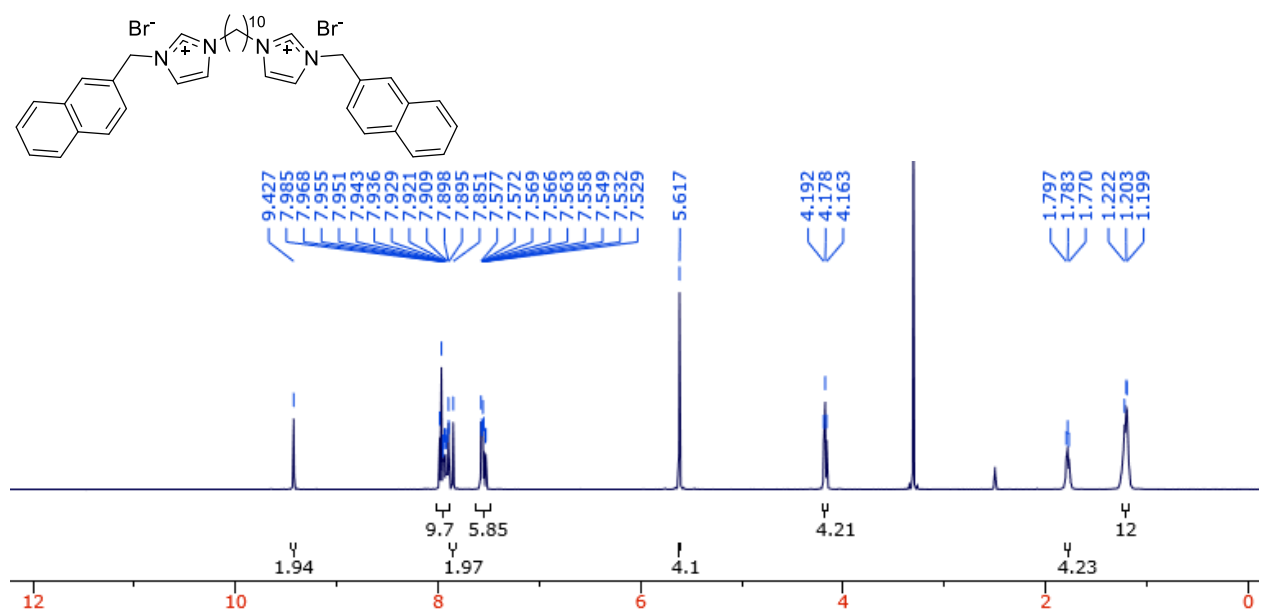


SI 7c. HRMS of compound 7

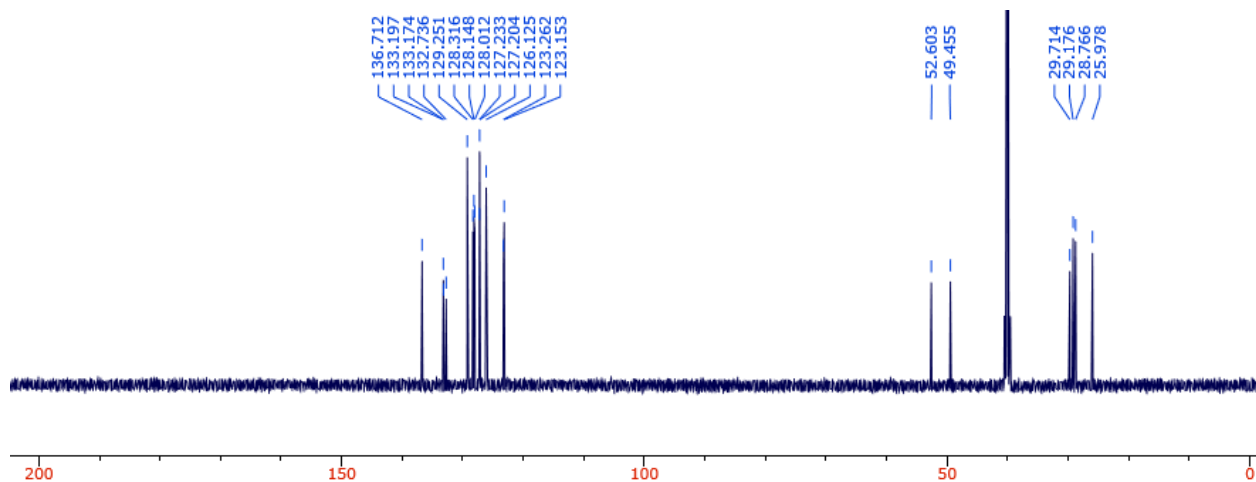
SI 8a. <sup>1</sup>H NMR spectrum of compound 8



SI 8b. <sup>13</sup>C NMR spectrum of compound 8



SI 9a. <sup>1</sup>H NMR spectrum of compound 10

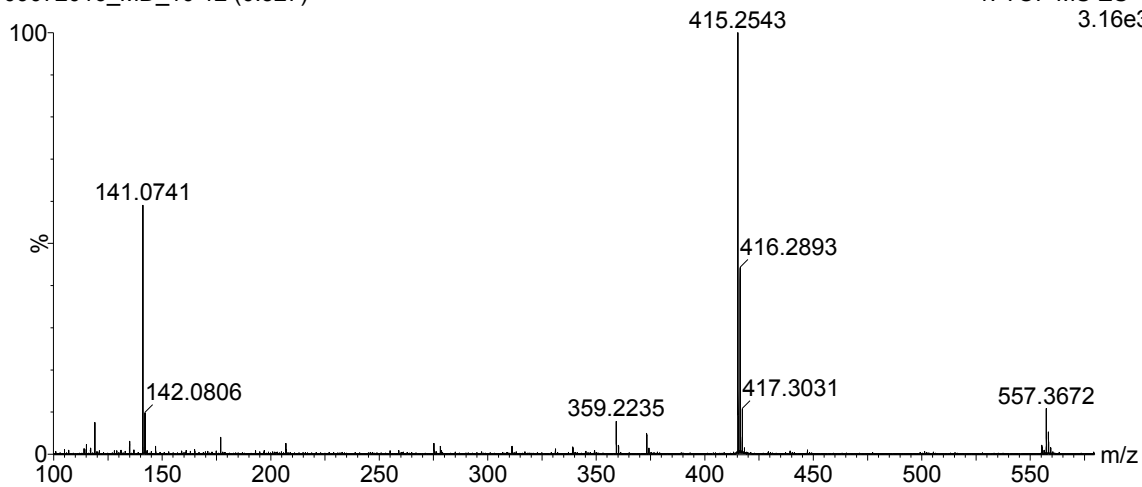


SI 9b.  $^{13}\text{C}$  NMR spectrum of compound 10

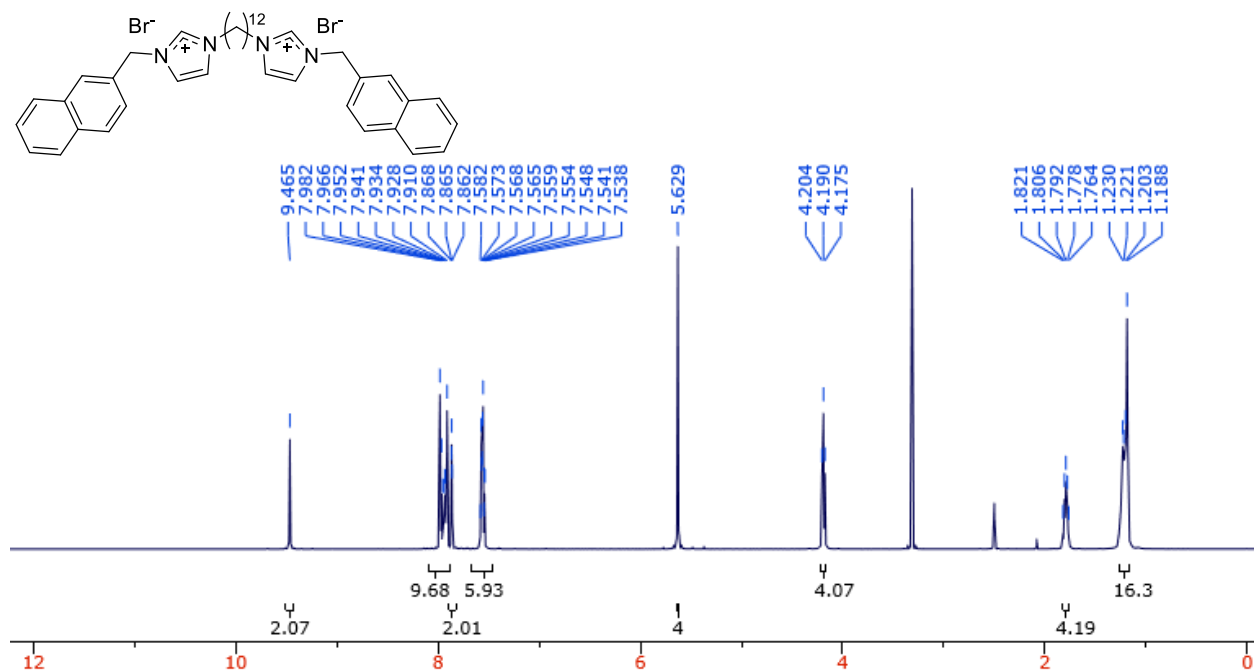
Lockmass

09072016\_MD\_10 12 (0.327)

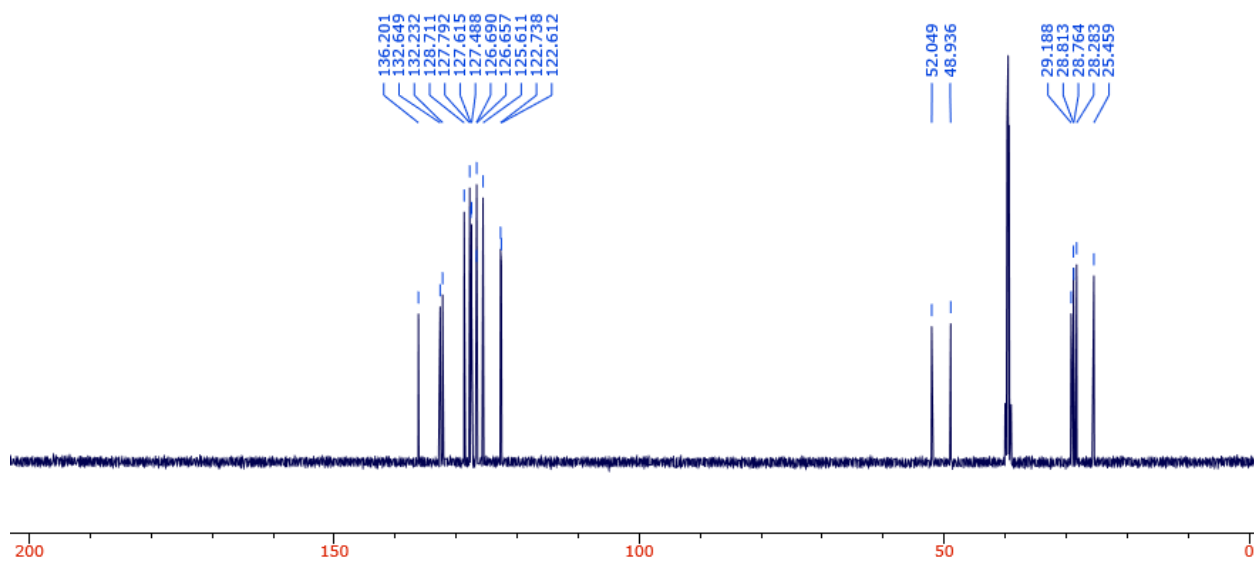
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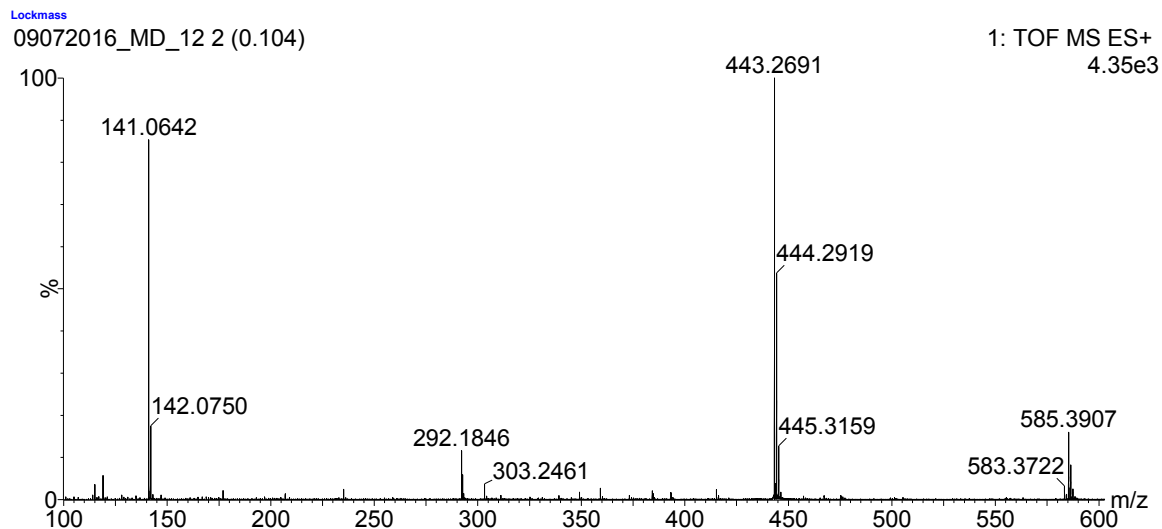
SI 9c. HRMS of compound 10



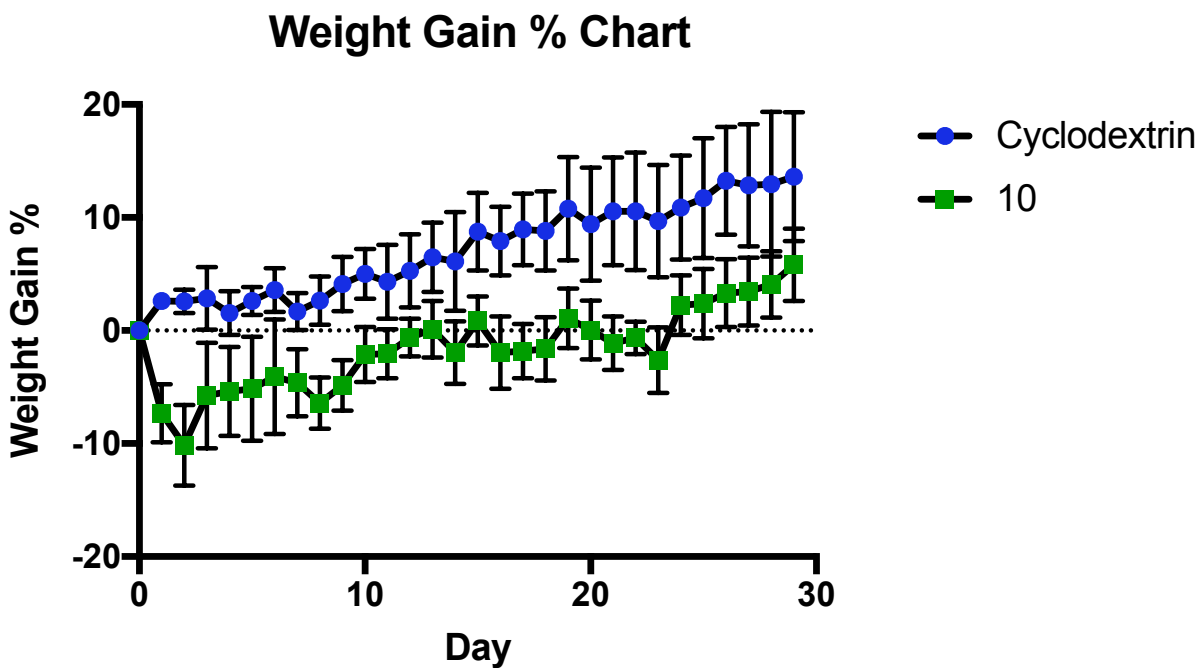
SI 10a. <sup>1</sup>H NMR spectrum of compound 12



SI 10b. <sup>13</sup>C NMR spectrum of compound 12



SI 10c. HRMS of compound 12



SI 11. Average weight gain chart with error bars (n=3) for mice treated with **10** or cyclodextrin vehicle control

SI 12. References

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