### Supporting information for

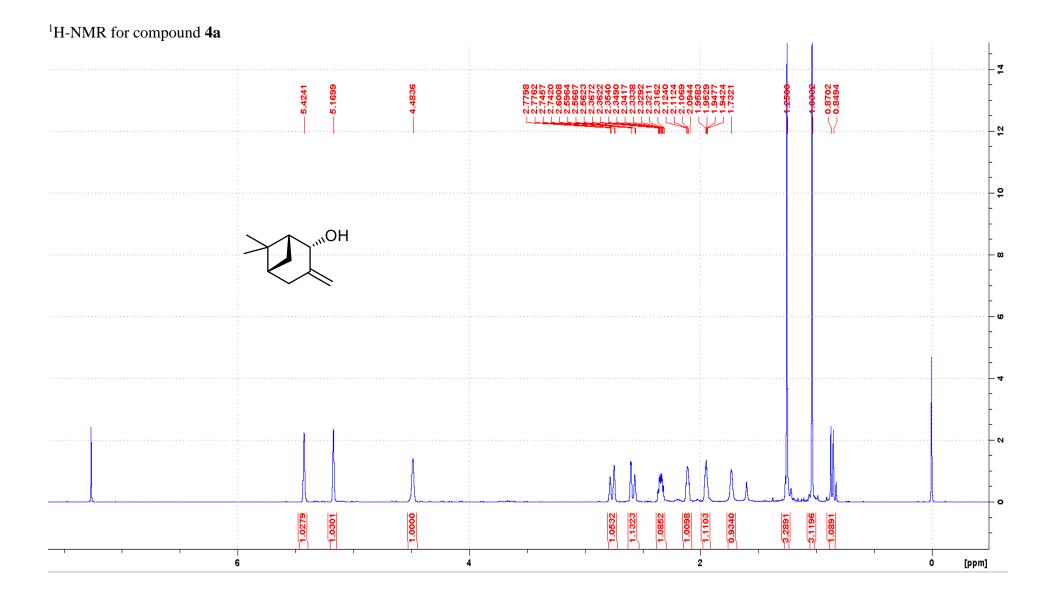
# Synthesis and investigation of pinane-based chiral tridentate ligands in the asymmetric addition of diethylzinc to aldehydes

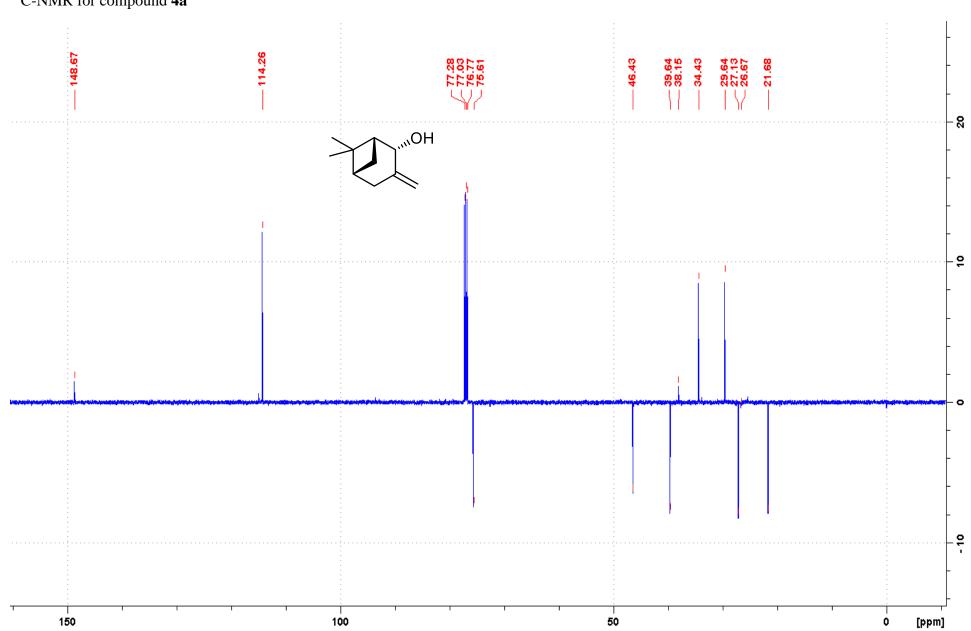
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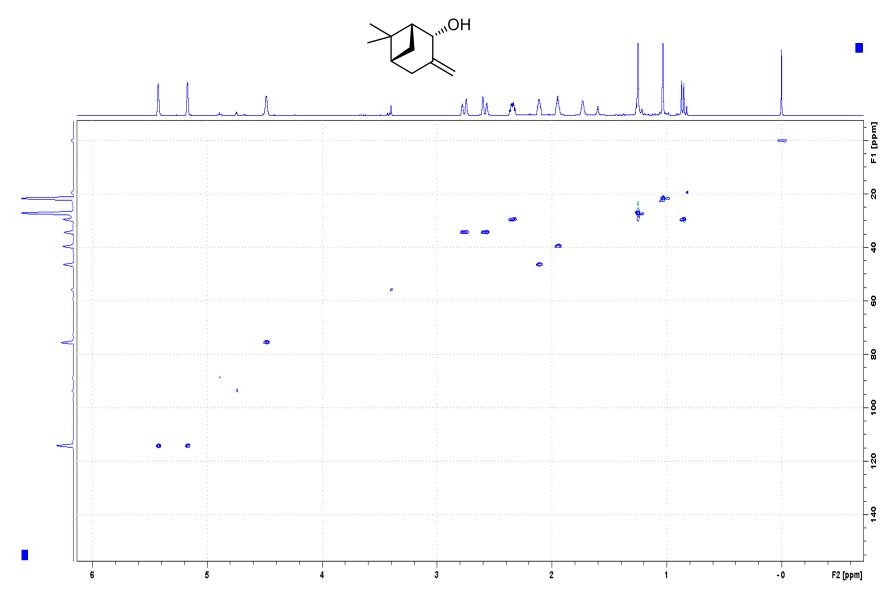
#### Contents

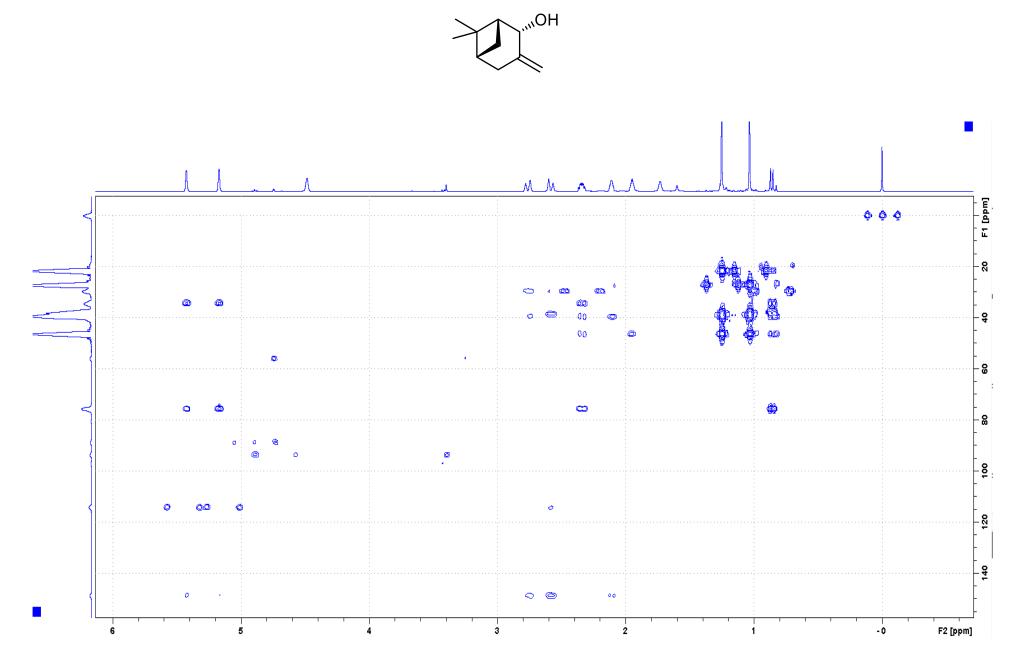
<sup>1</sup> H, <sup>13</sup> C, HSQC, HMBC and NOESY	NMR spectra of new compounds	S3 – S83

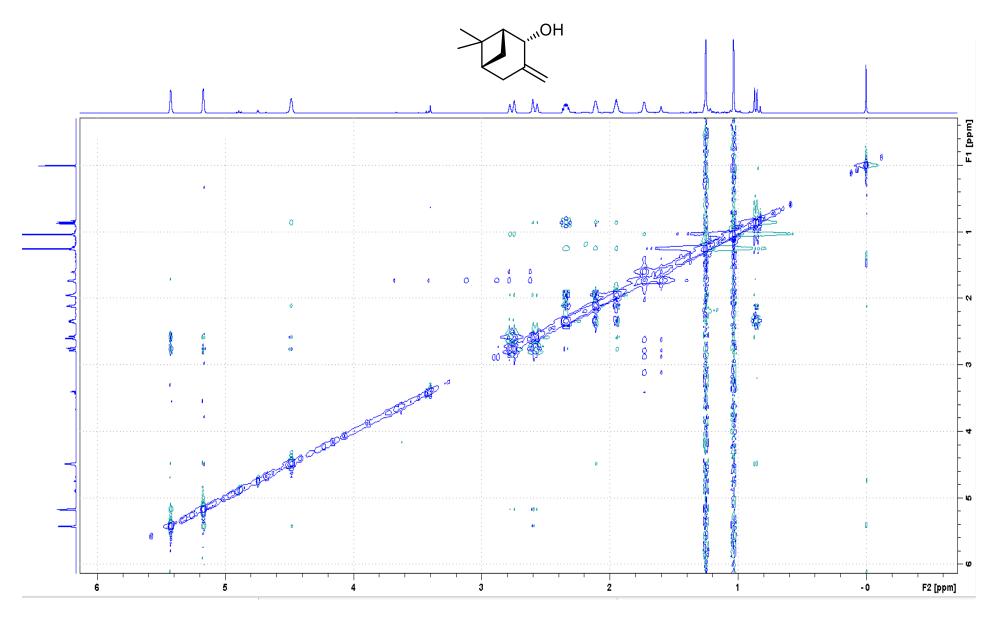


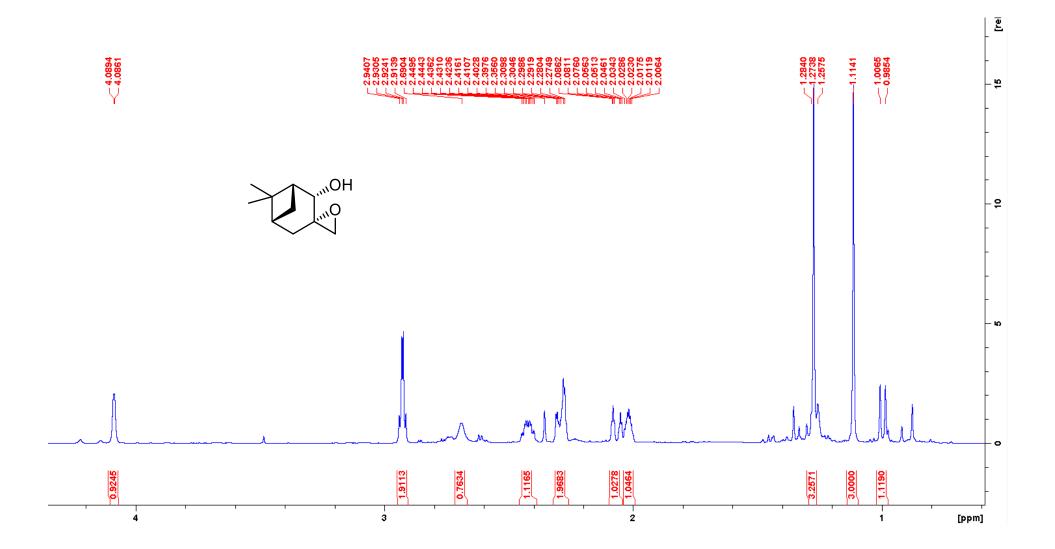


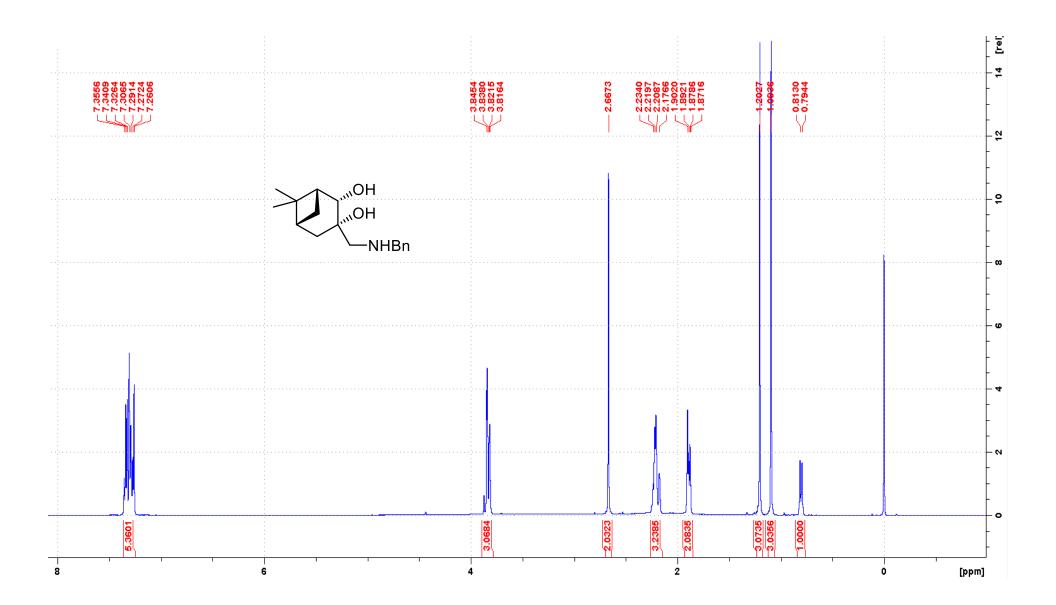
# <sup>13</sup>C-NMR for compound **4a**

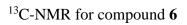


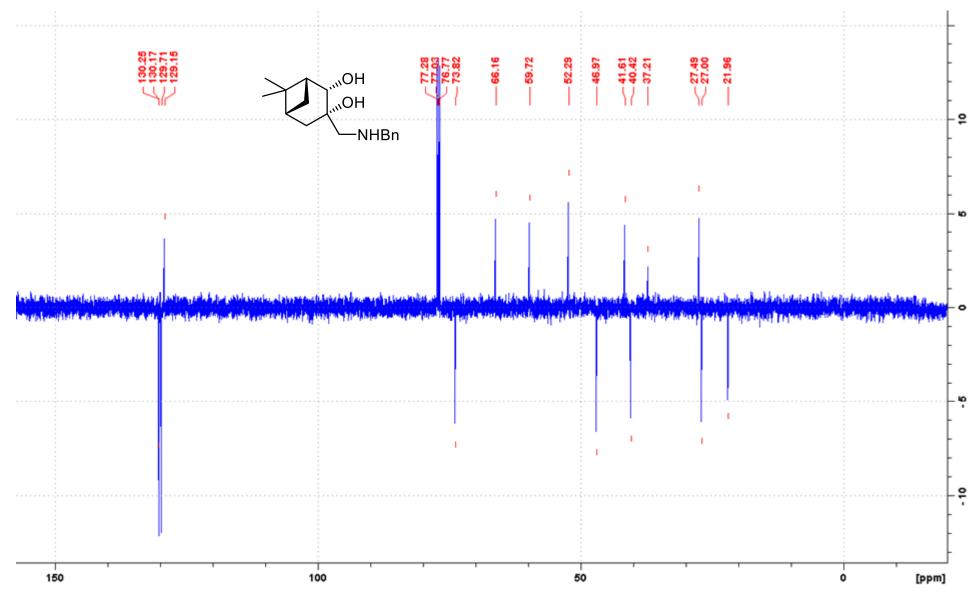


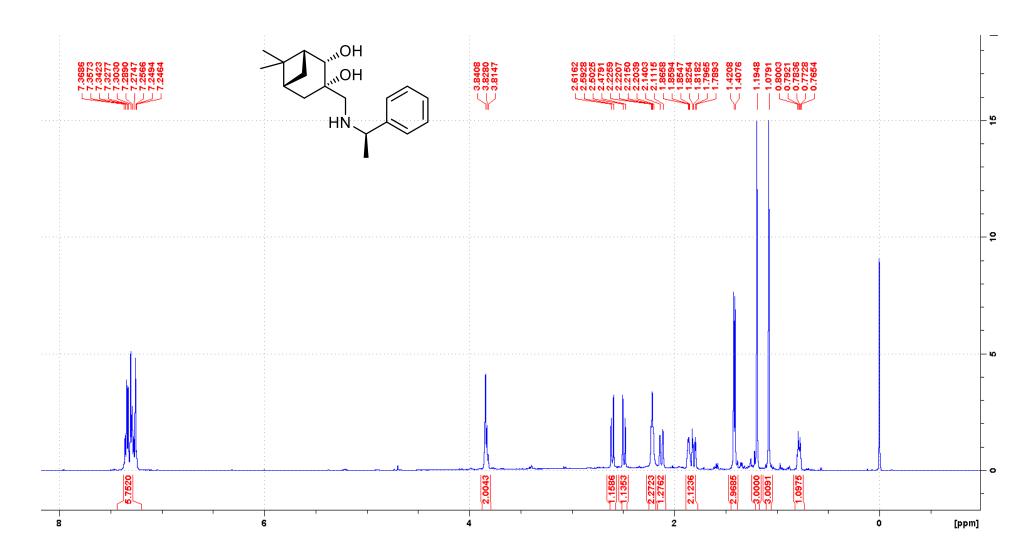


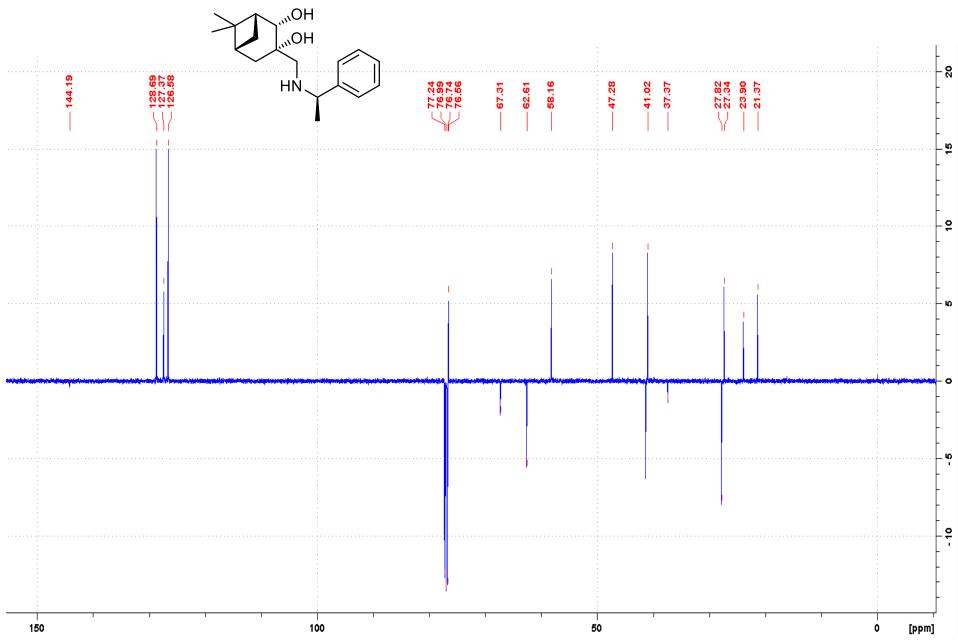


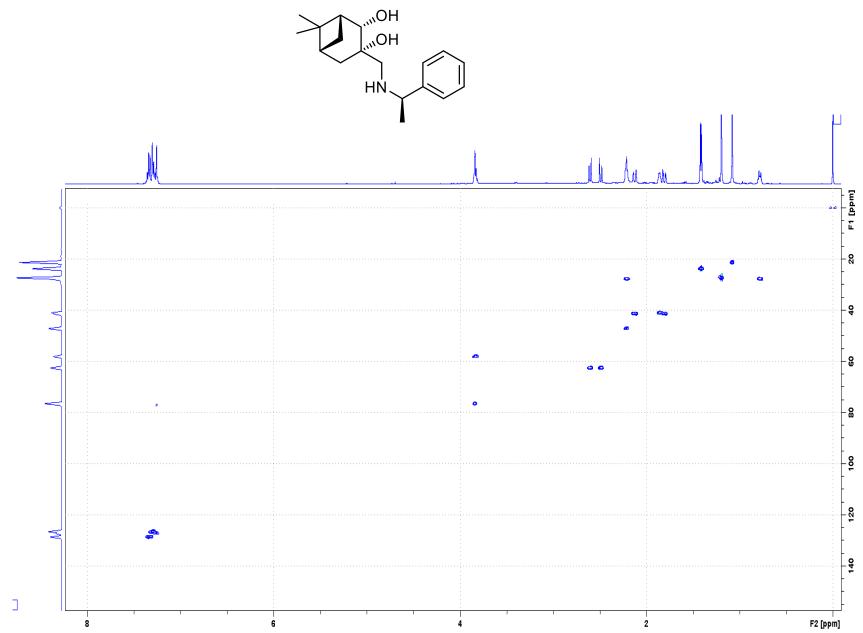


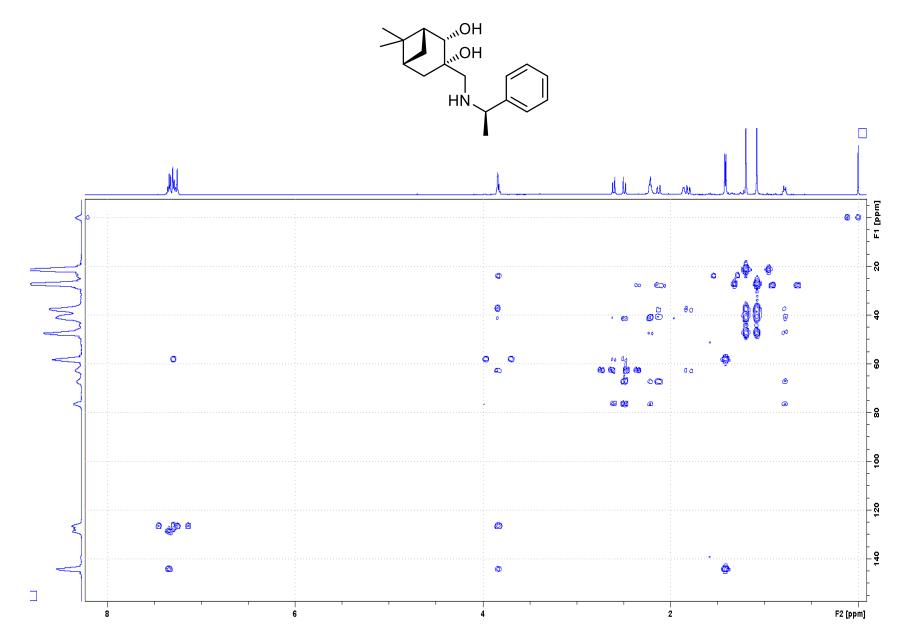


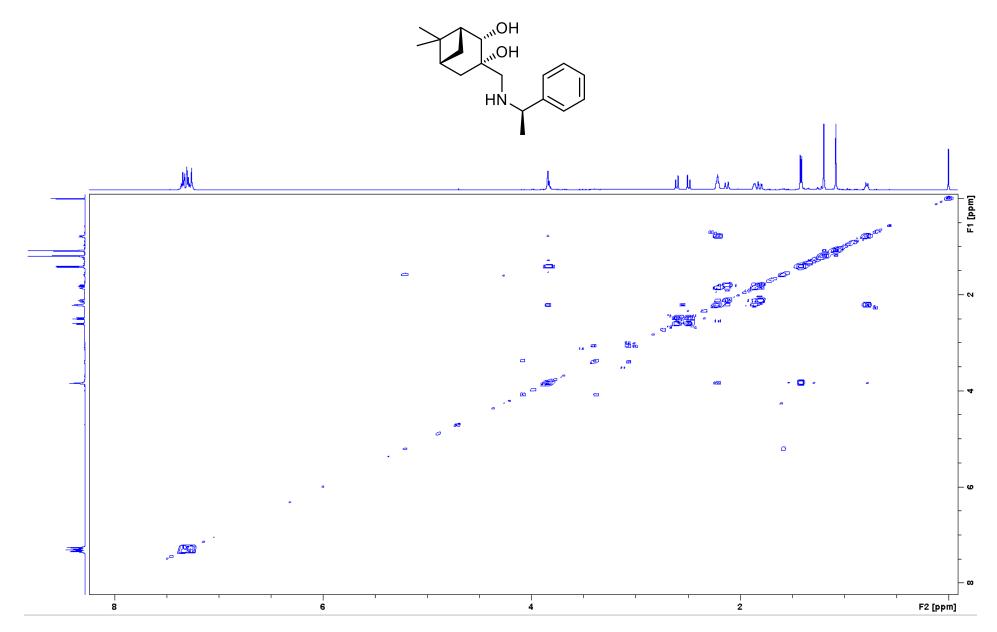


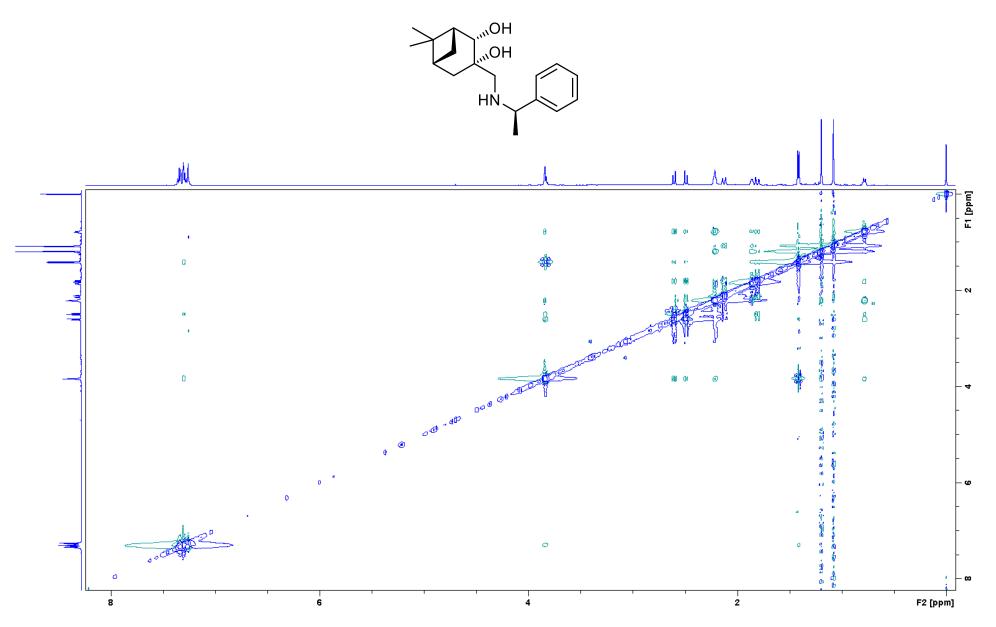


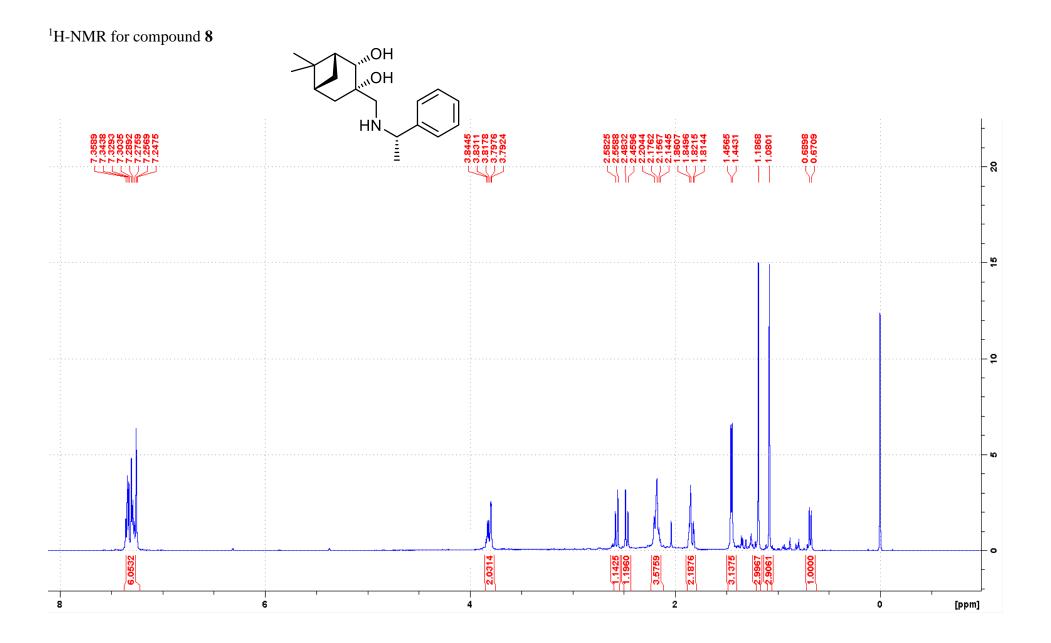




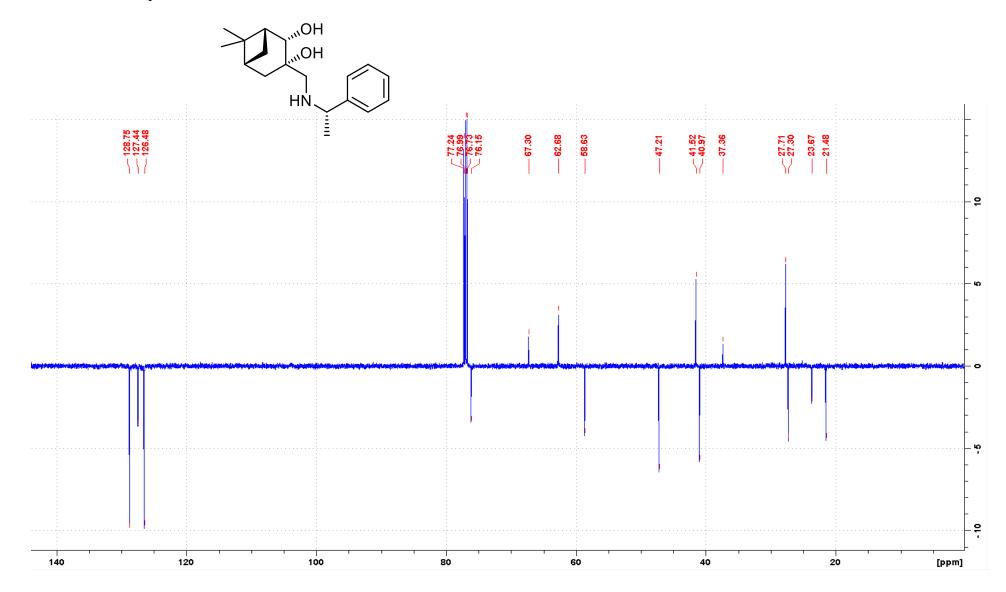


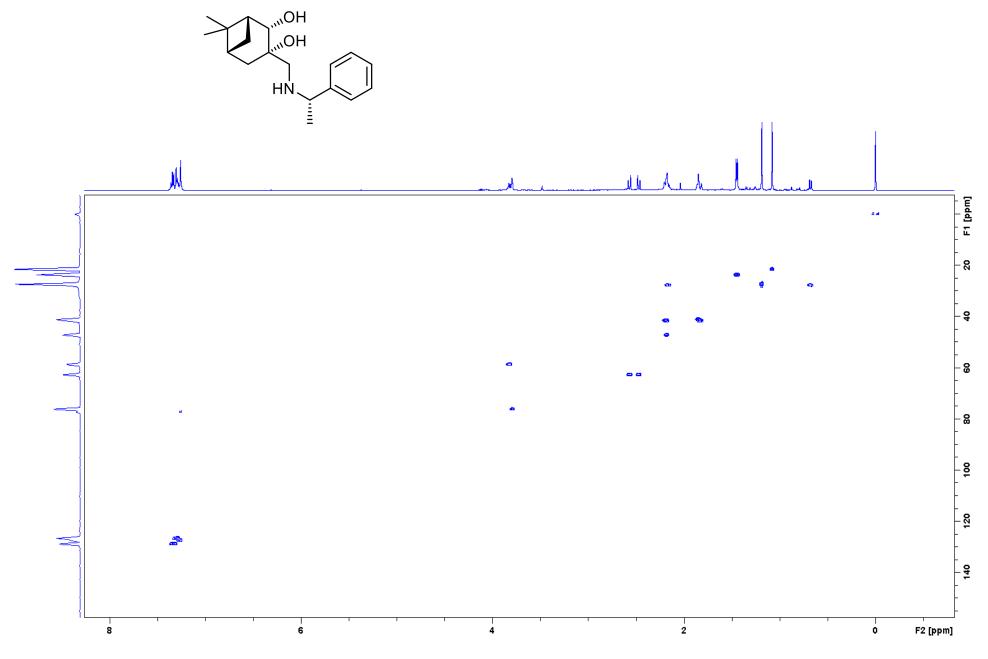


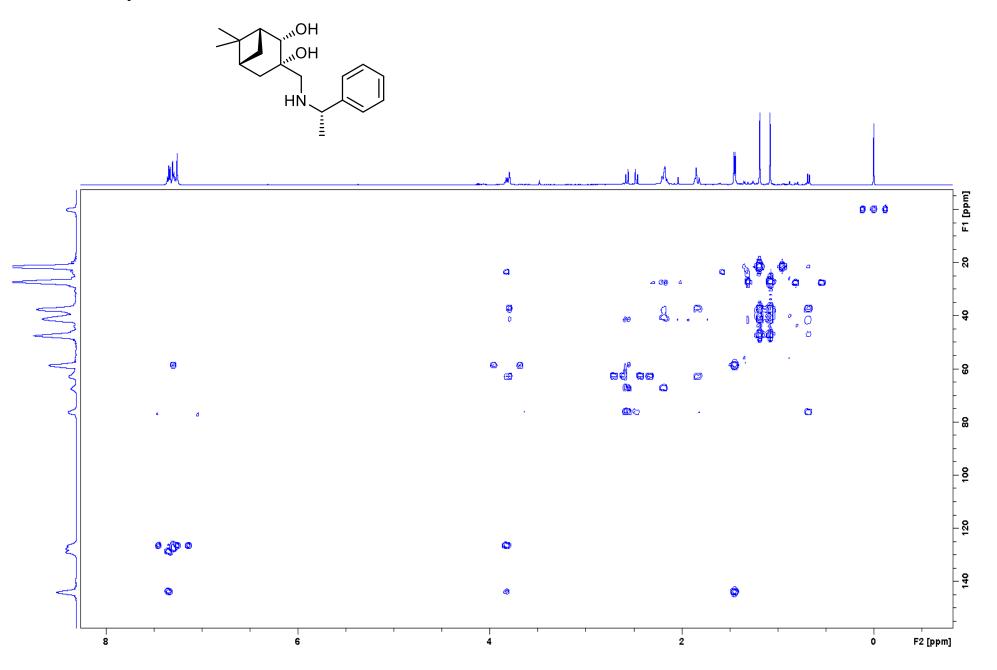


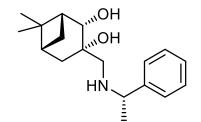


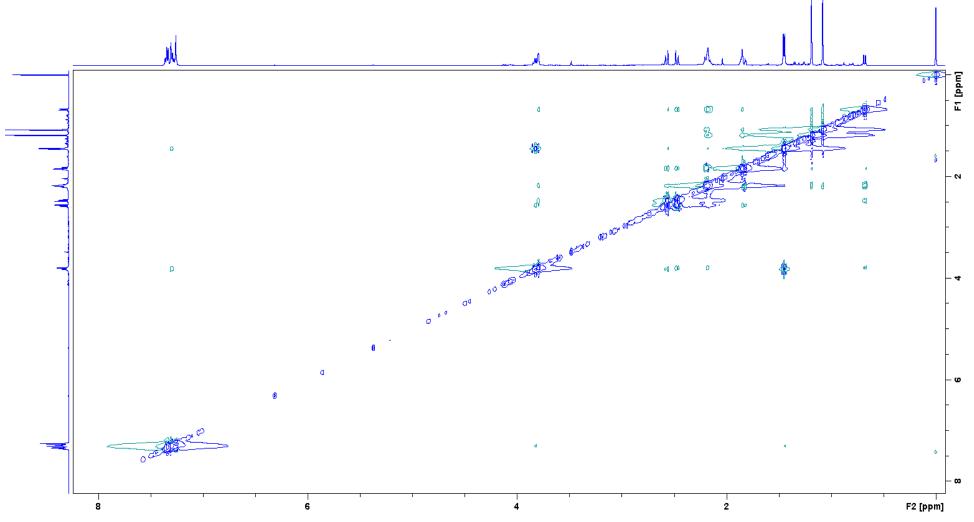
# <sup>13</sup>C-NMR for compound **8**



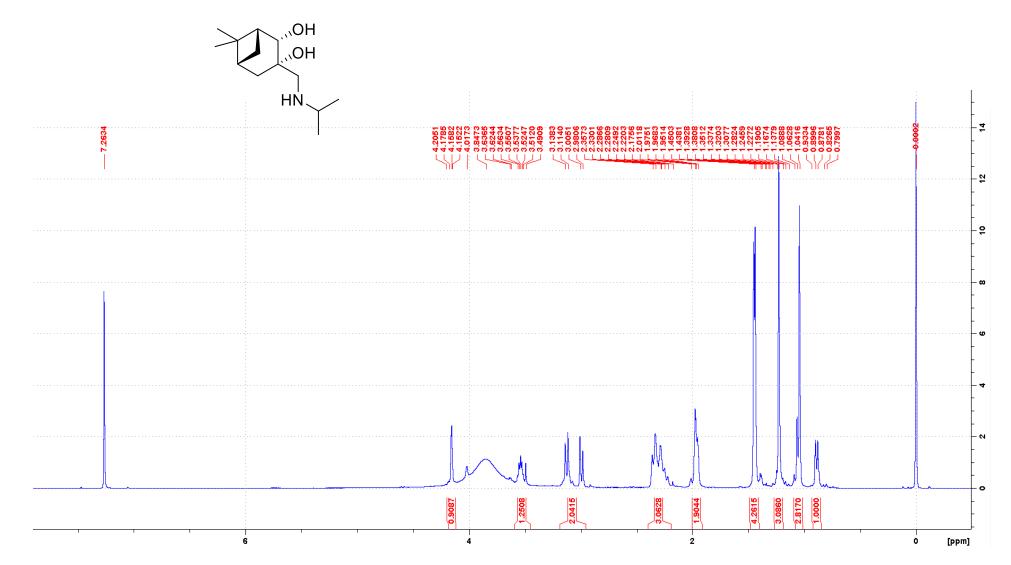


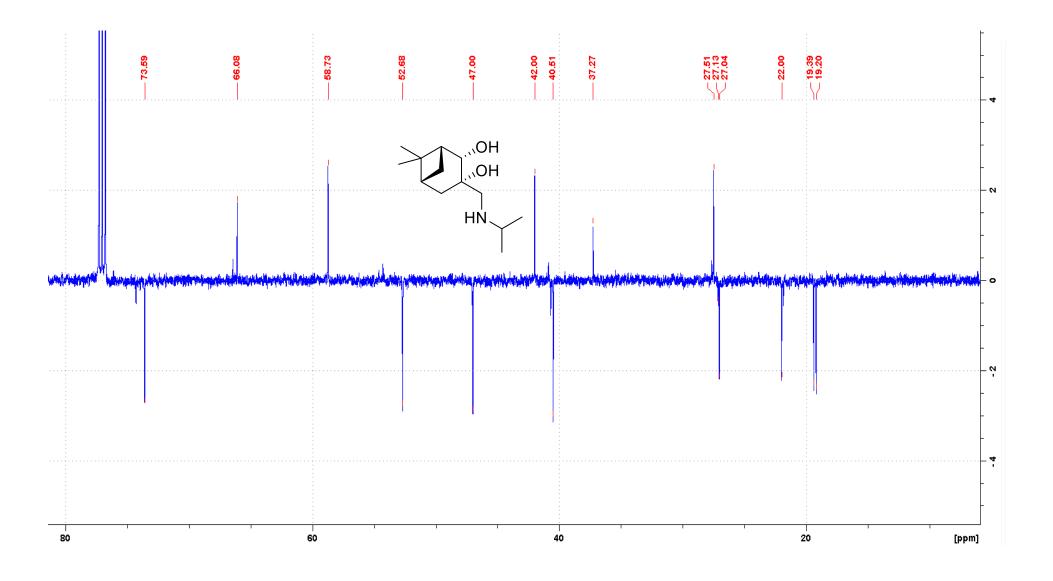


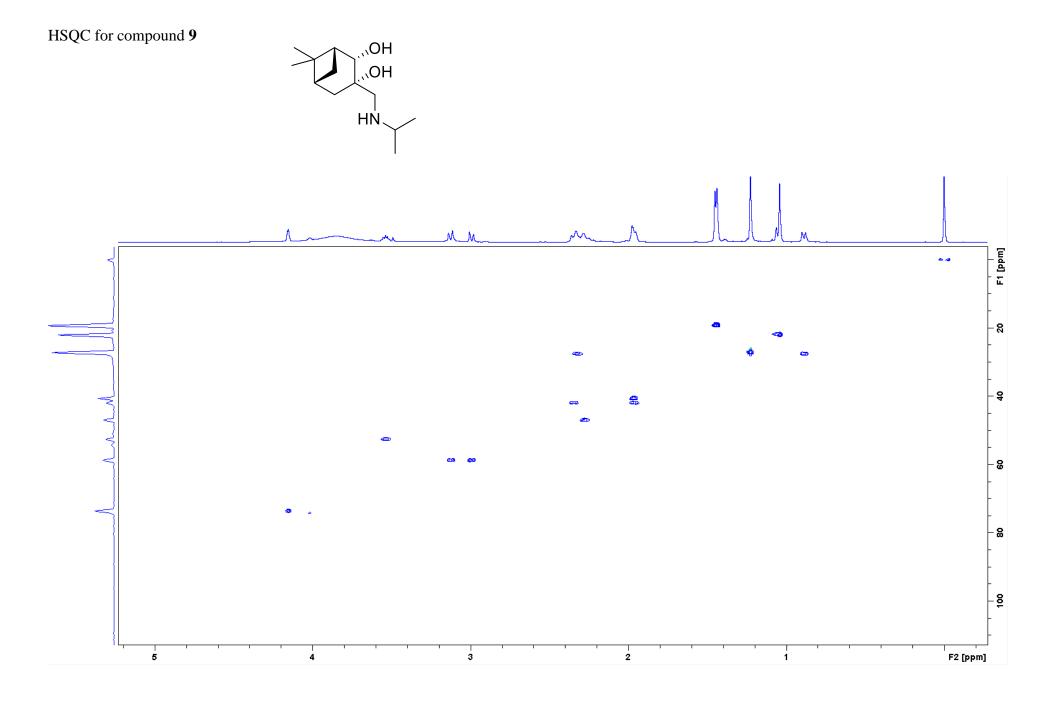


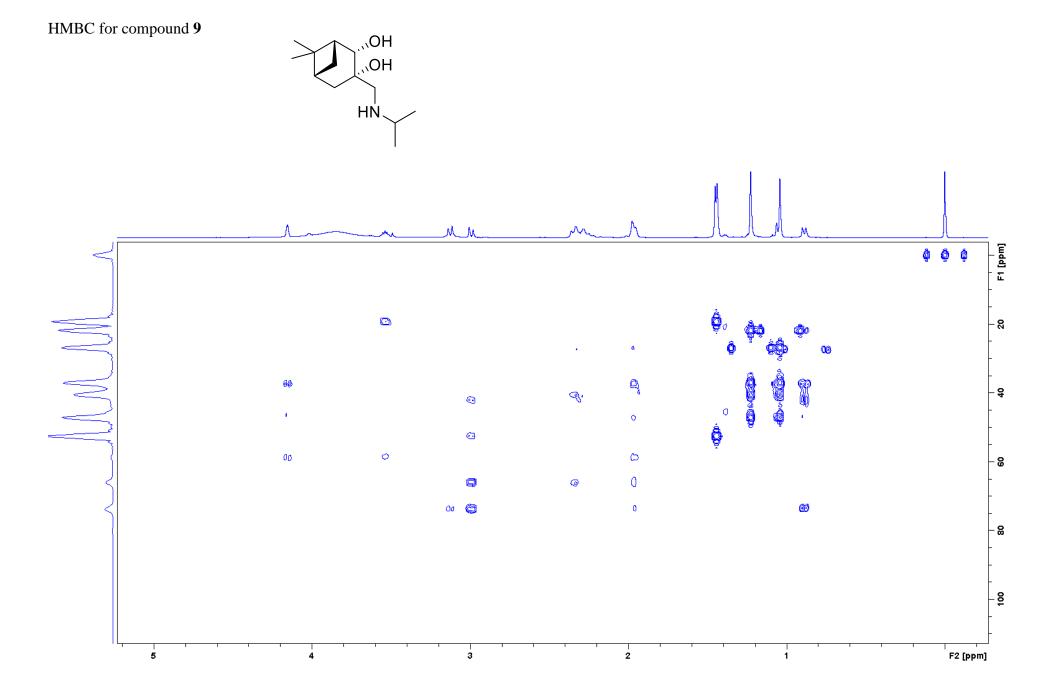


# <sup>1</sup>H-NMR for compound **9**

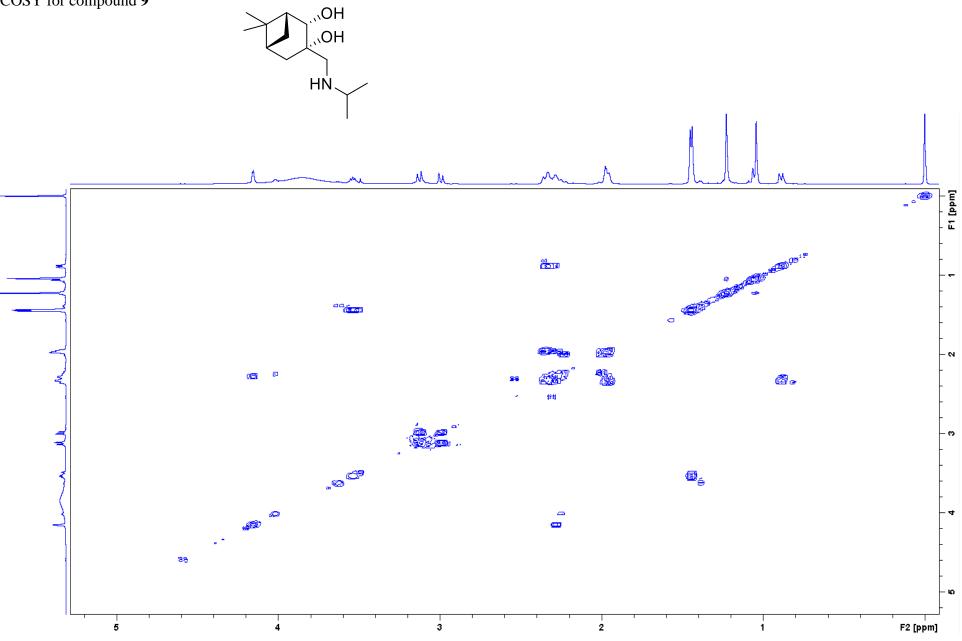


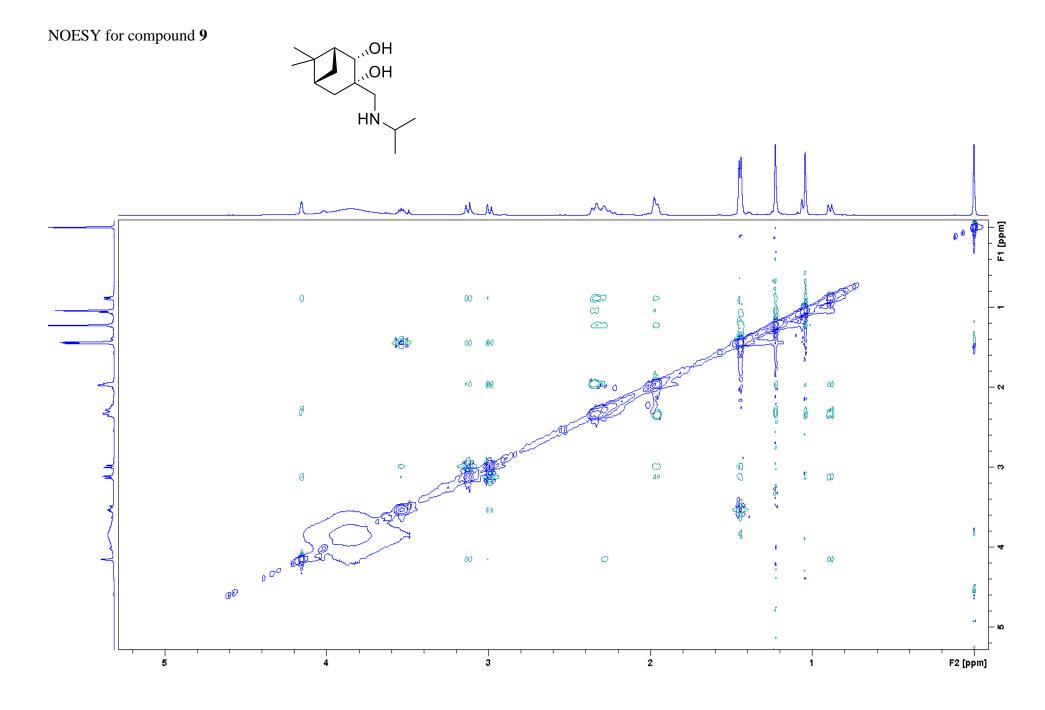


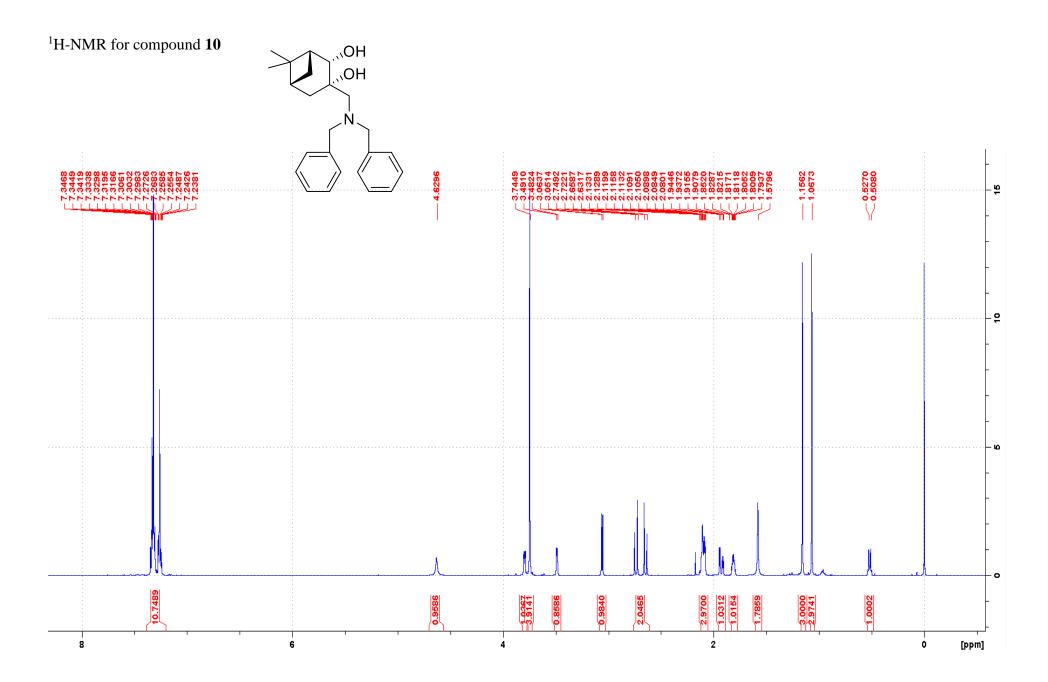


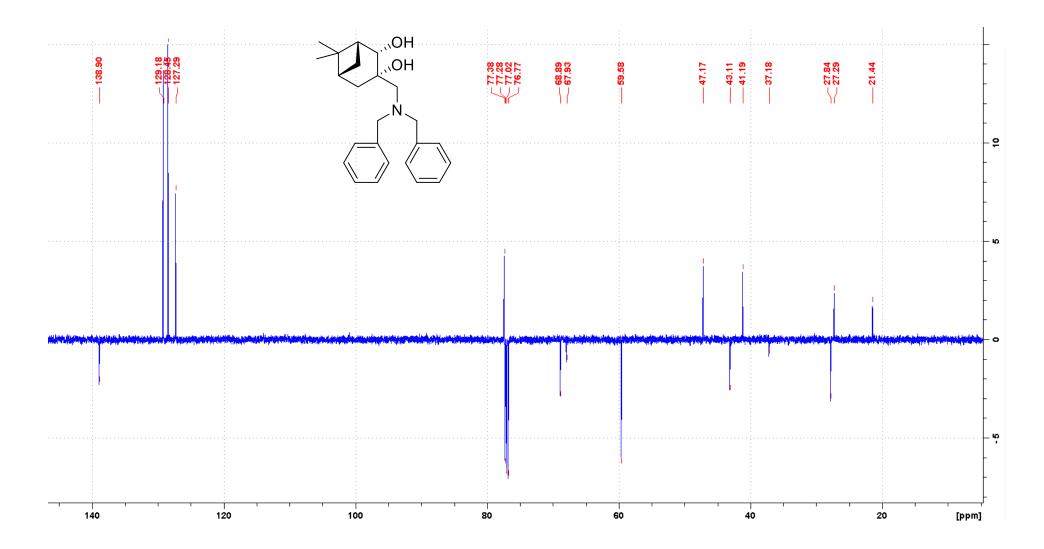


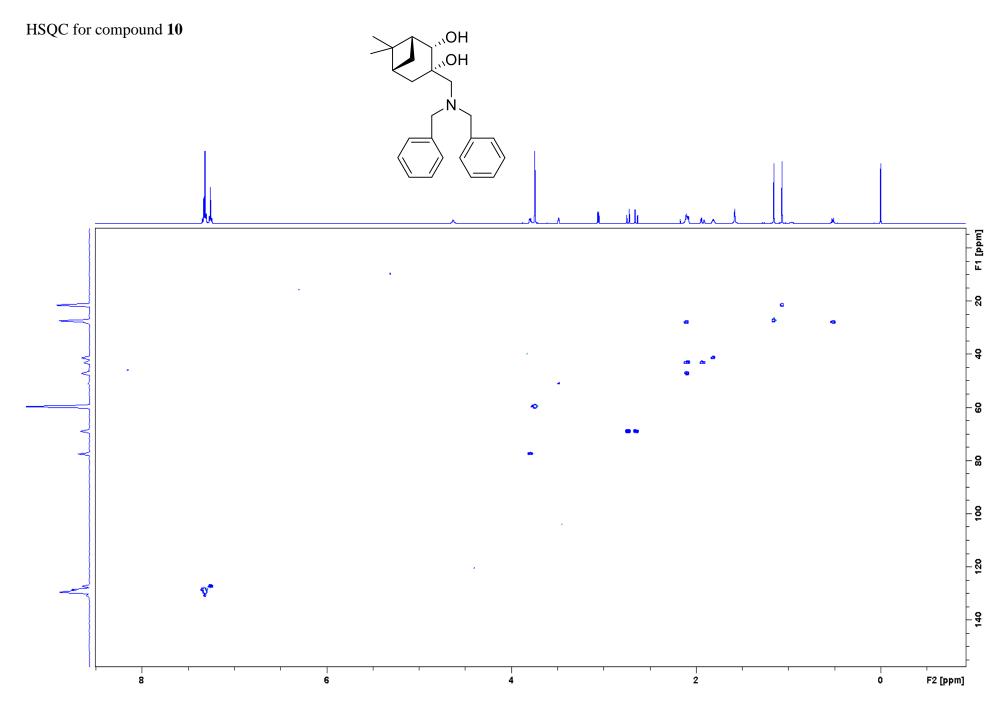
COSY for compound 9

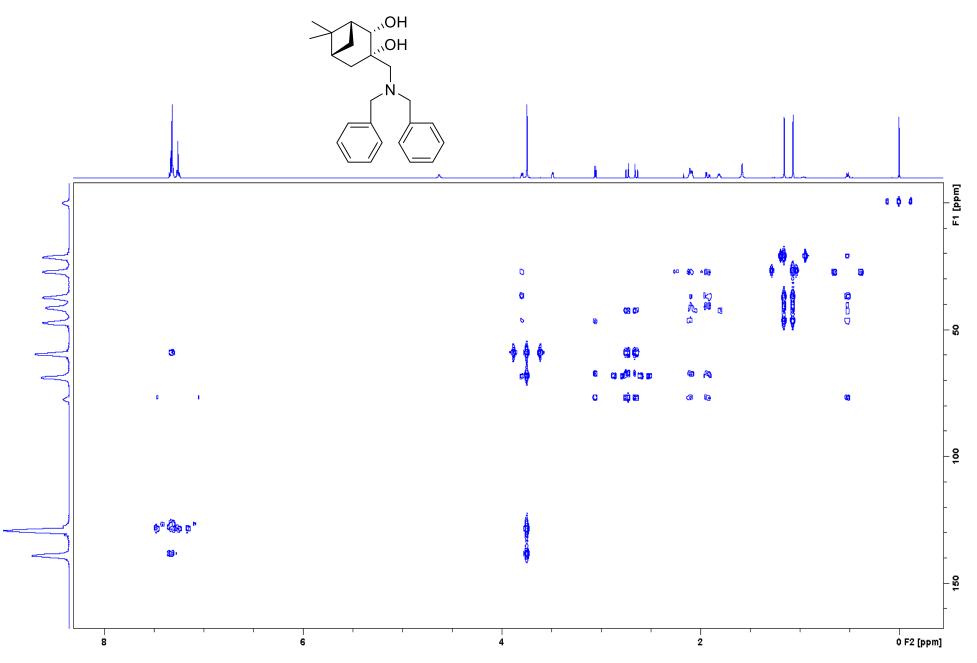


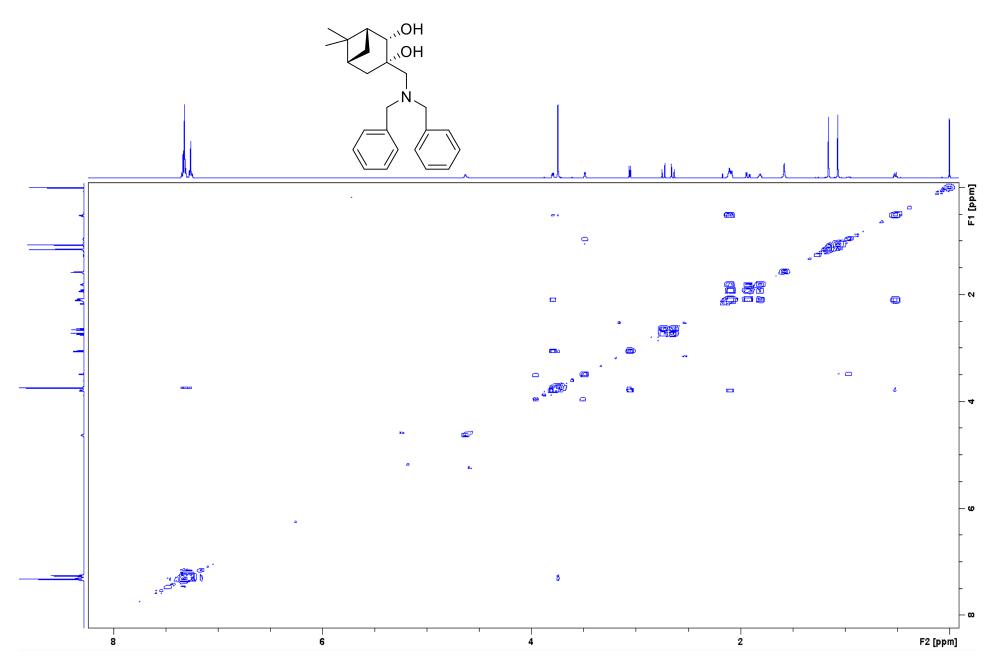


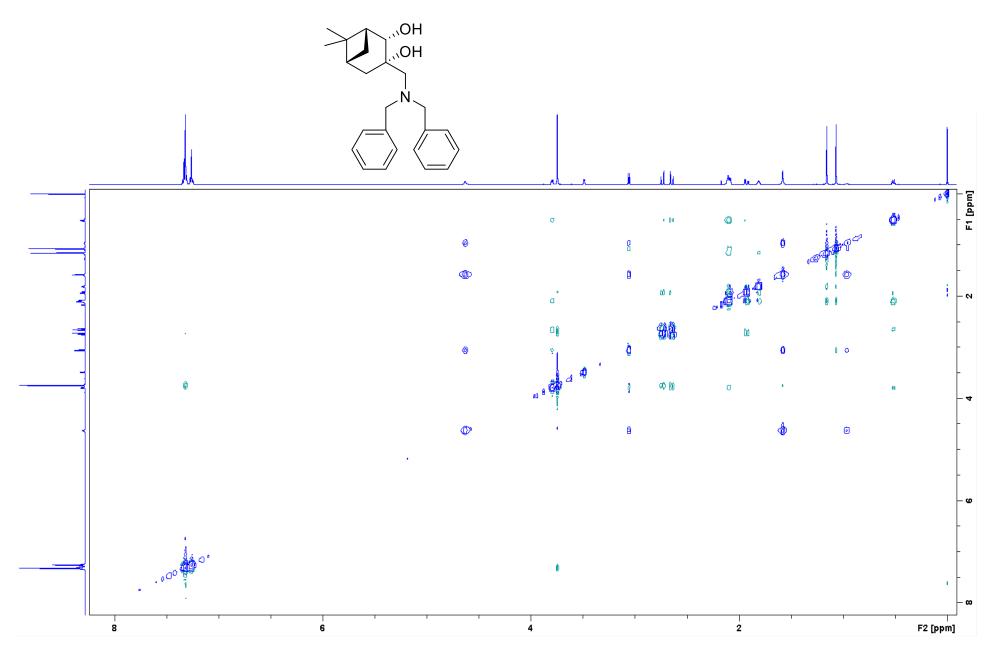


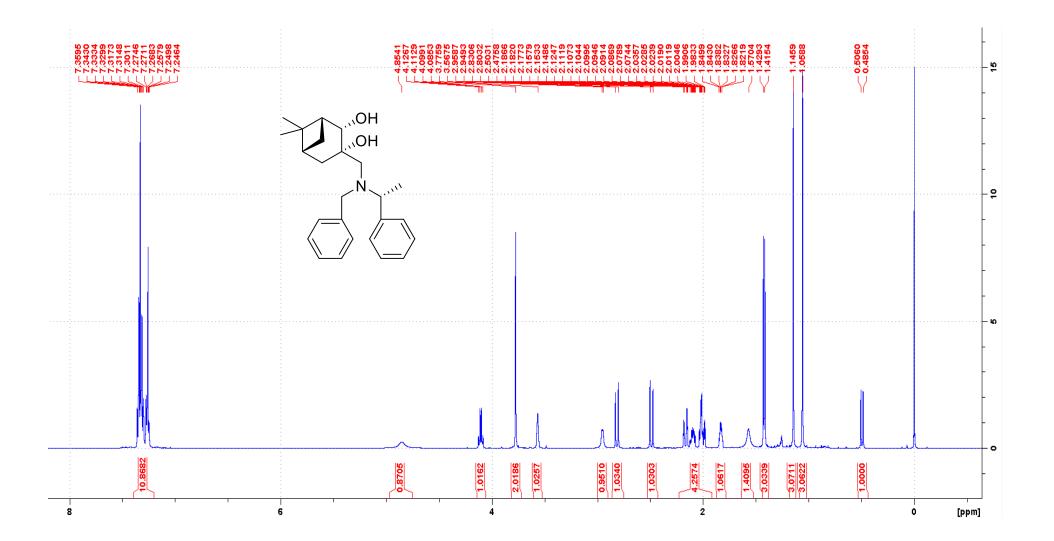


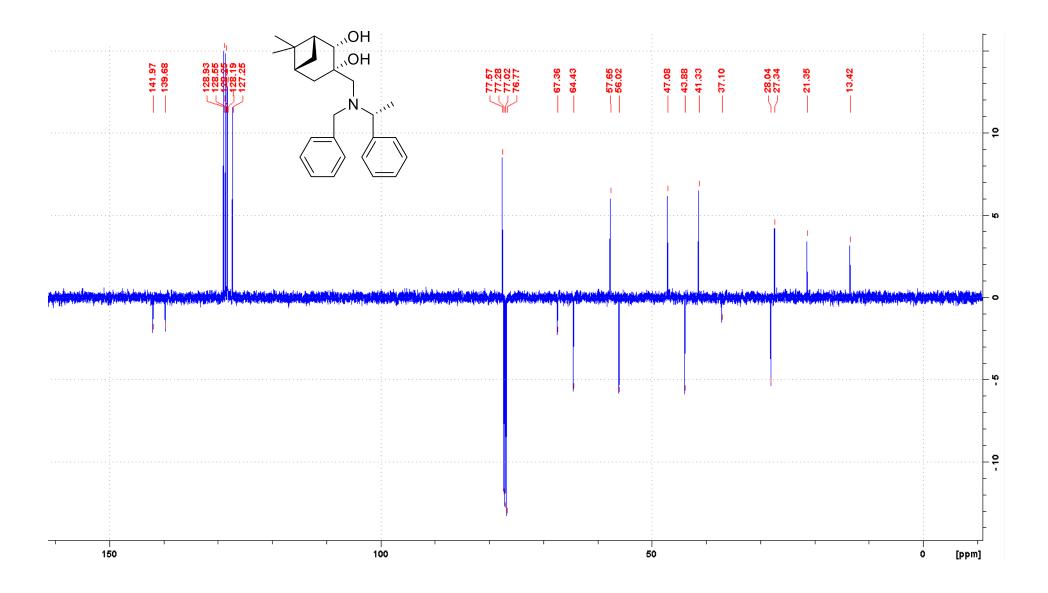


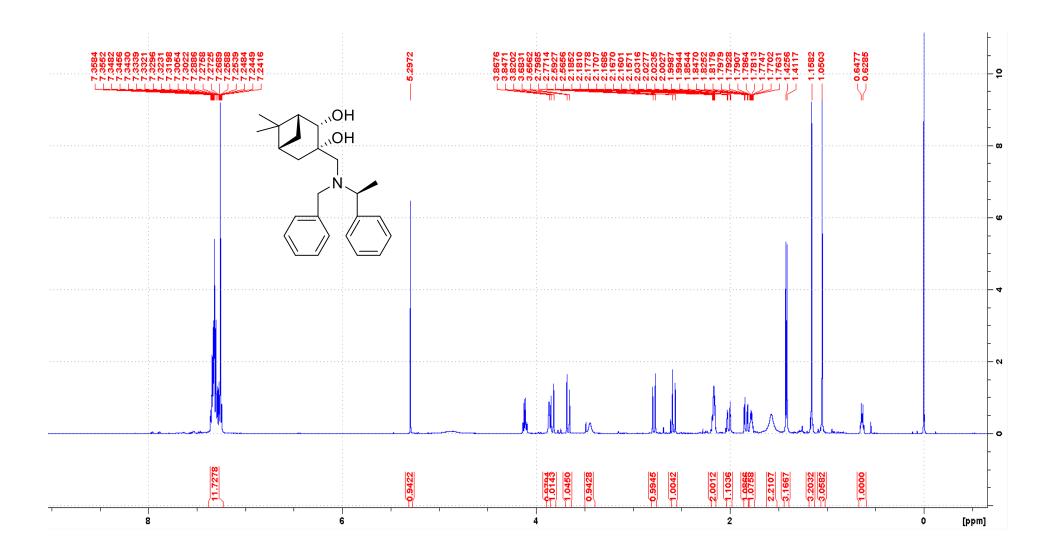




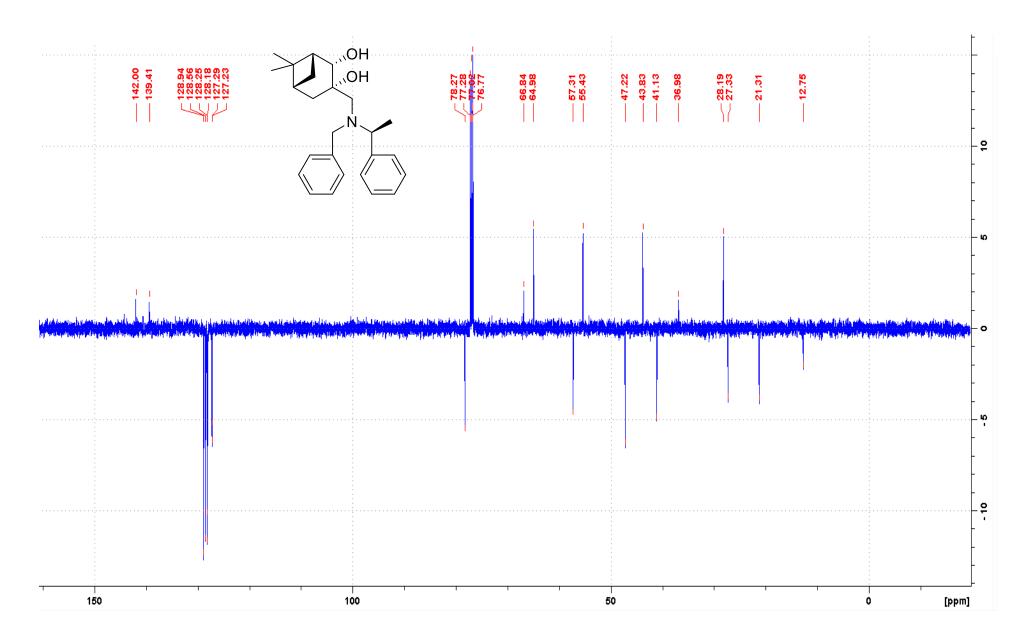


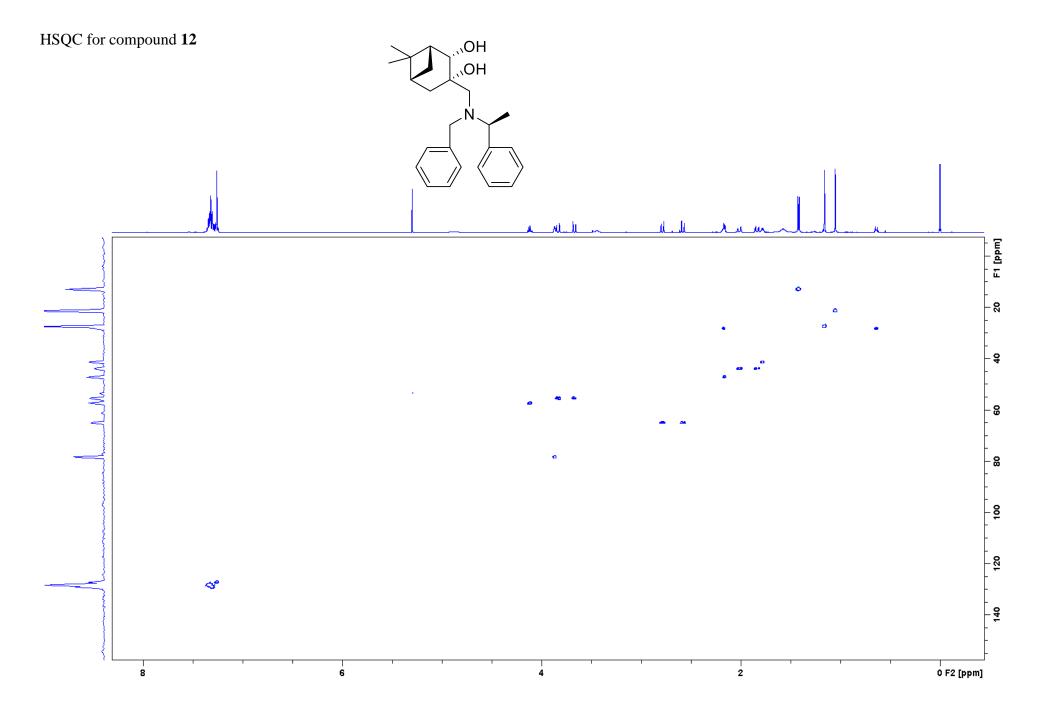


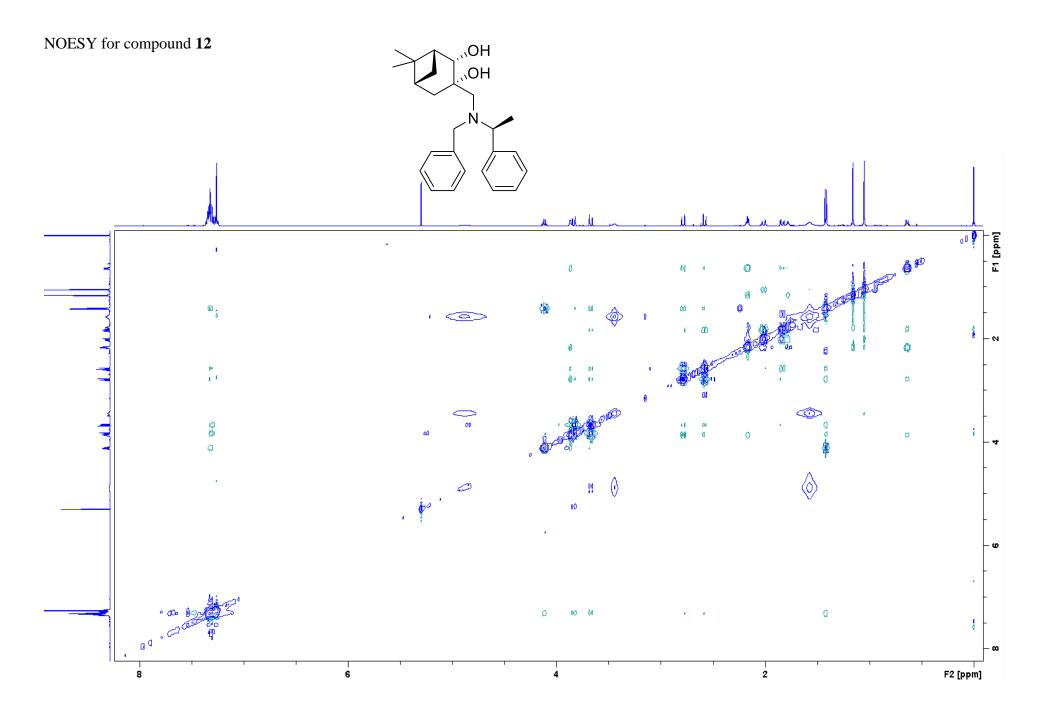


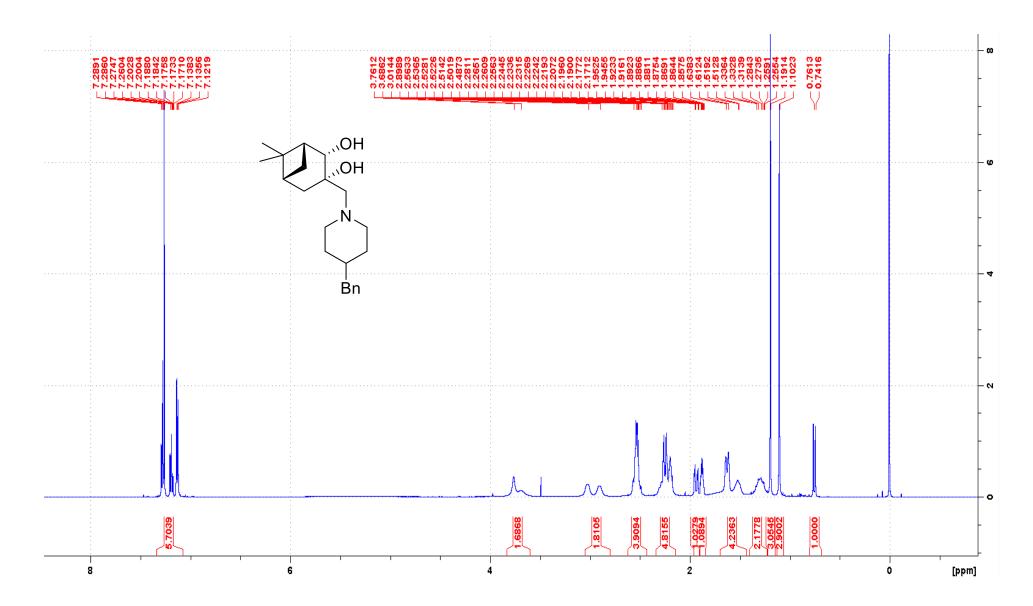


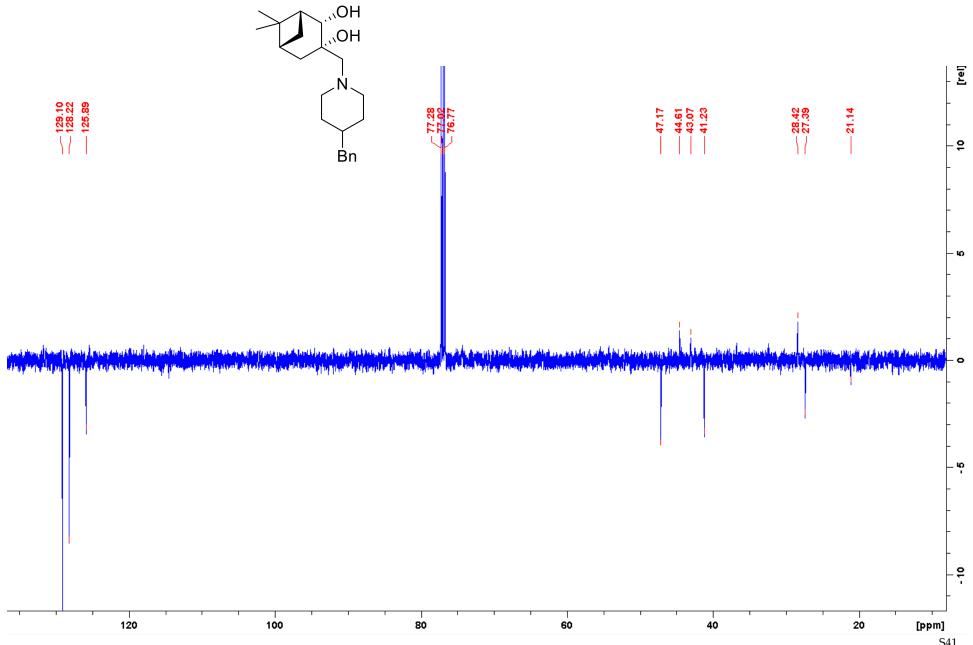
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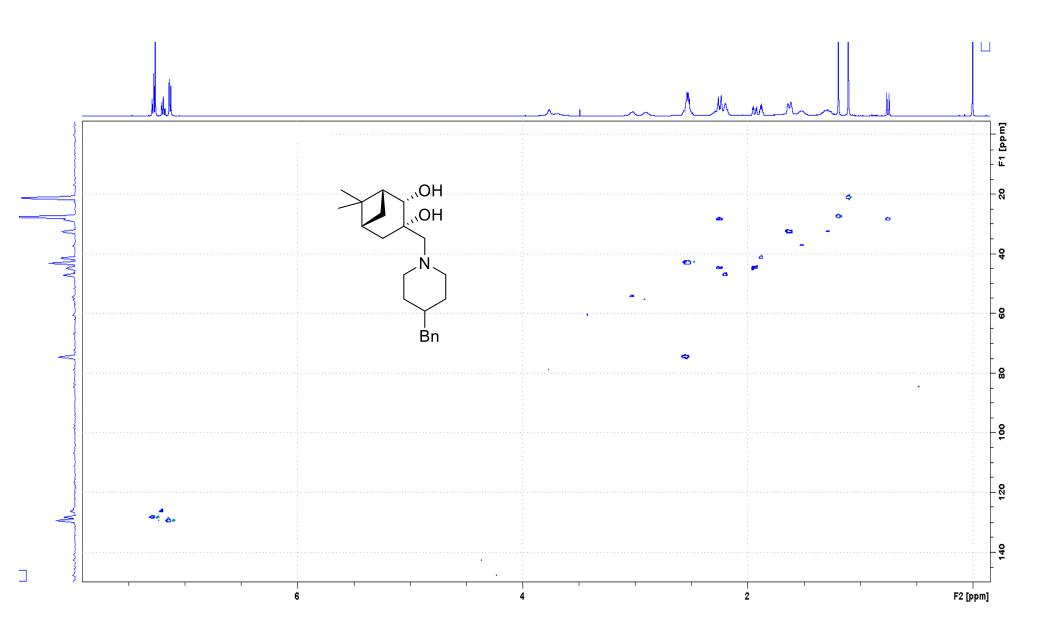


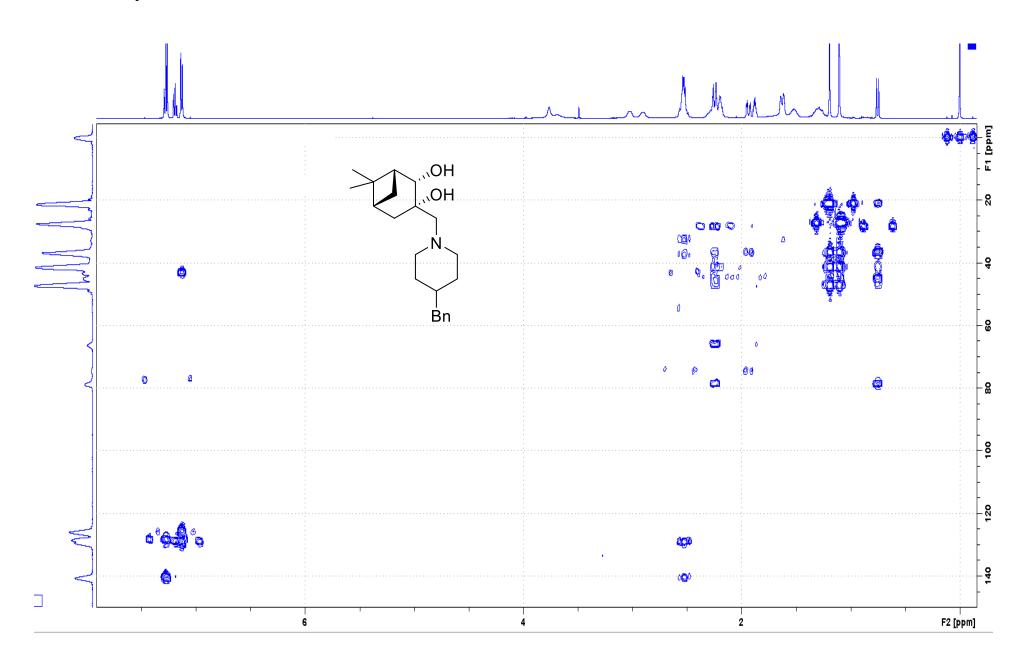


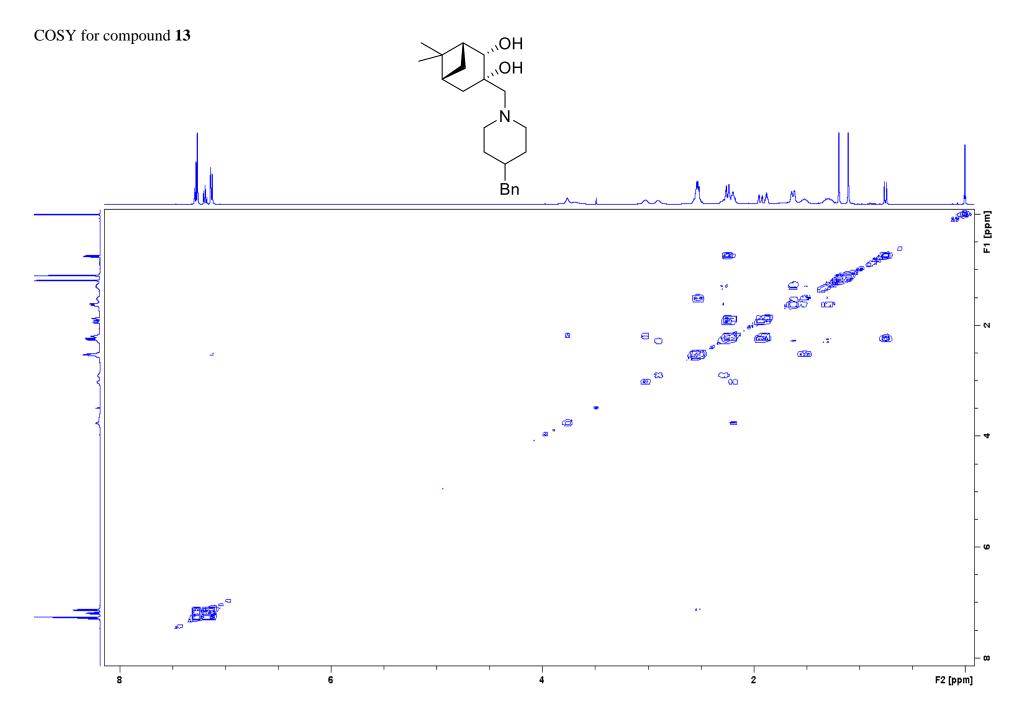












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