

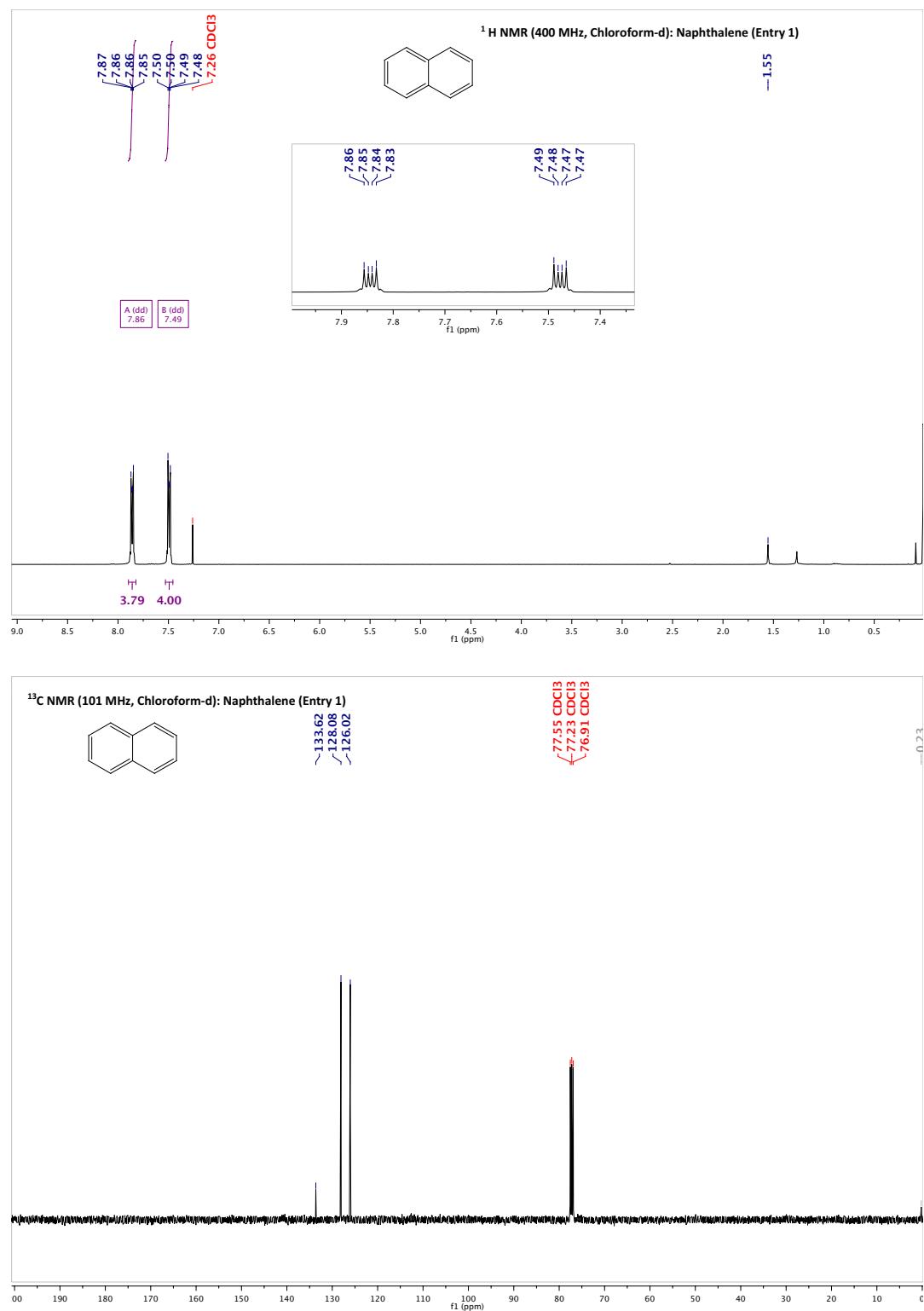
# An efficient dehydroxymethylation reaction by a palladium catalyst<sup>†</sup>

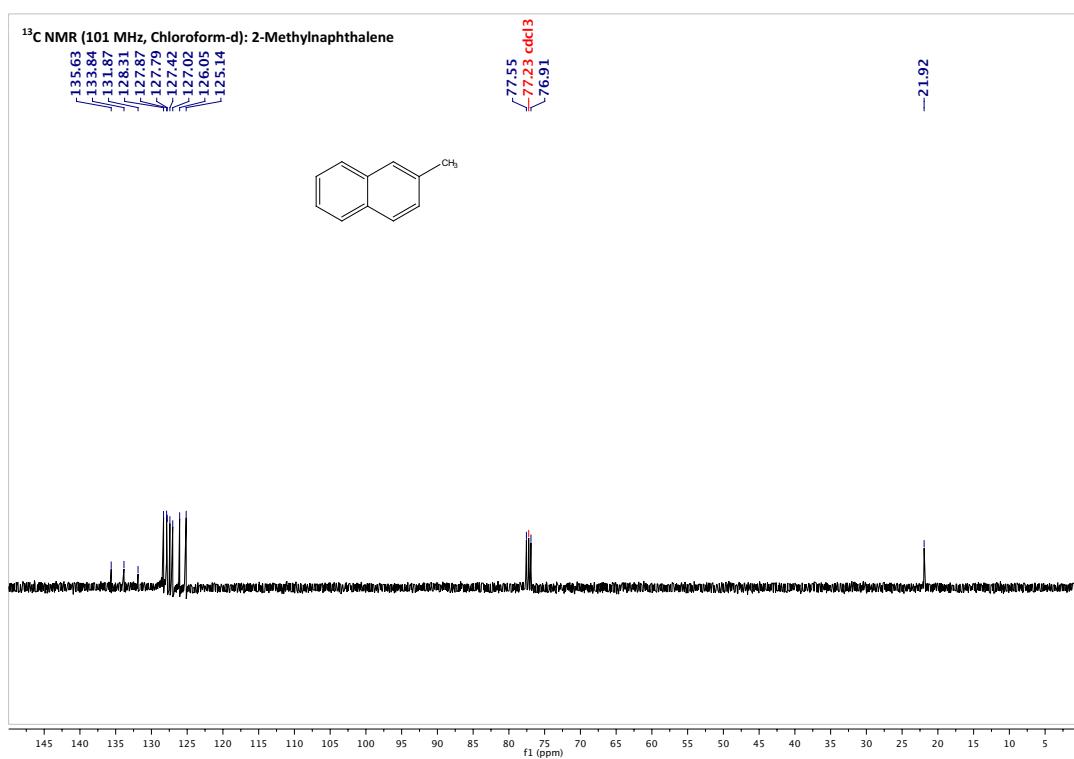
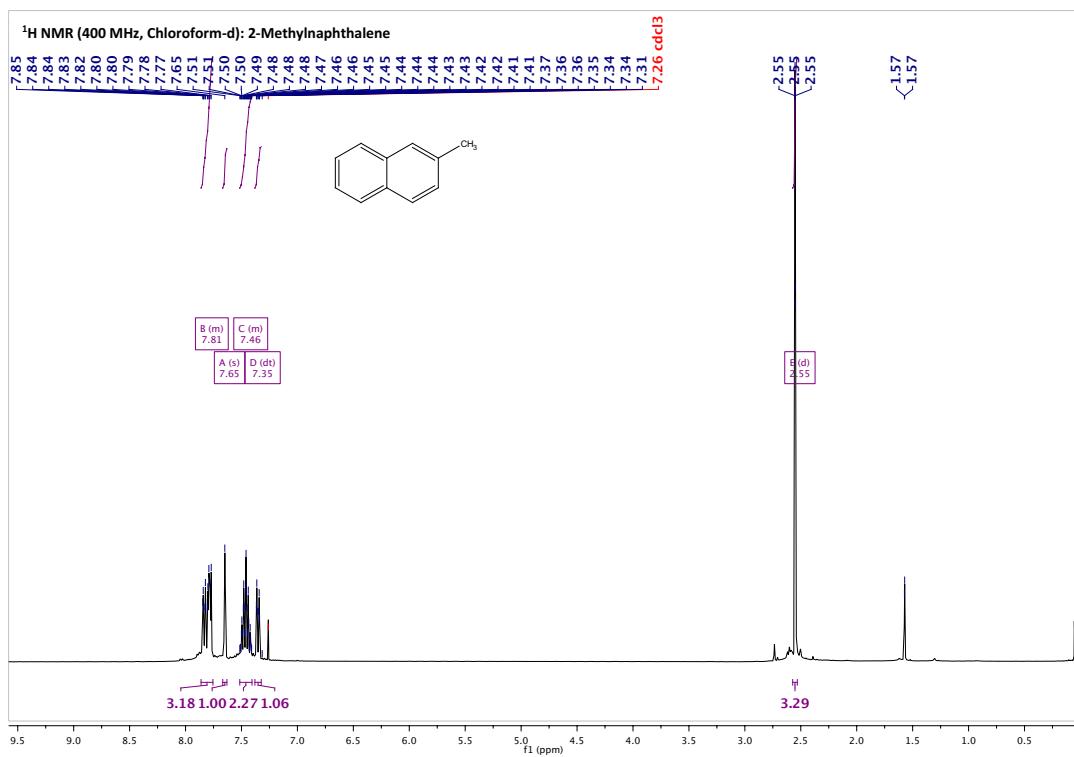
Atanu Modak, Togati Naveen and Debabrata Maiti\*

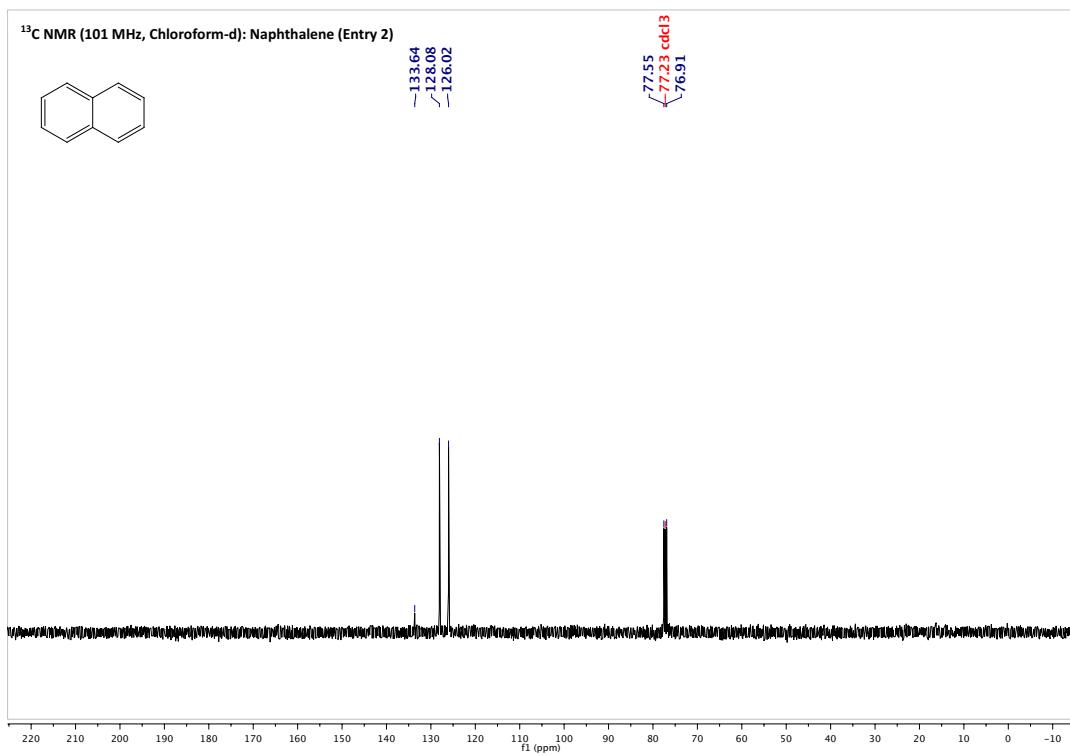
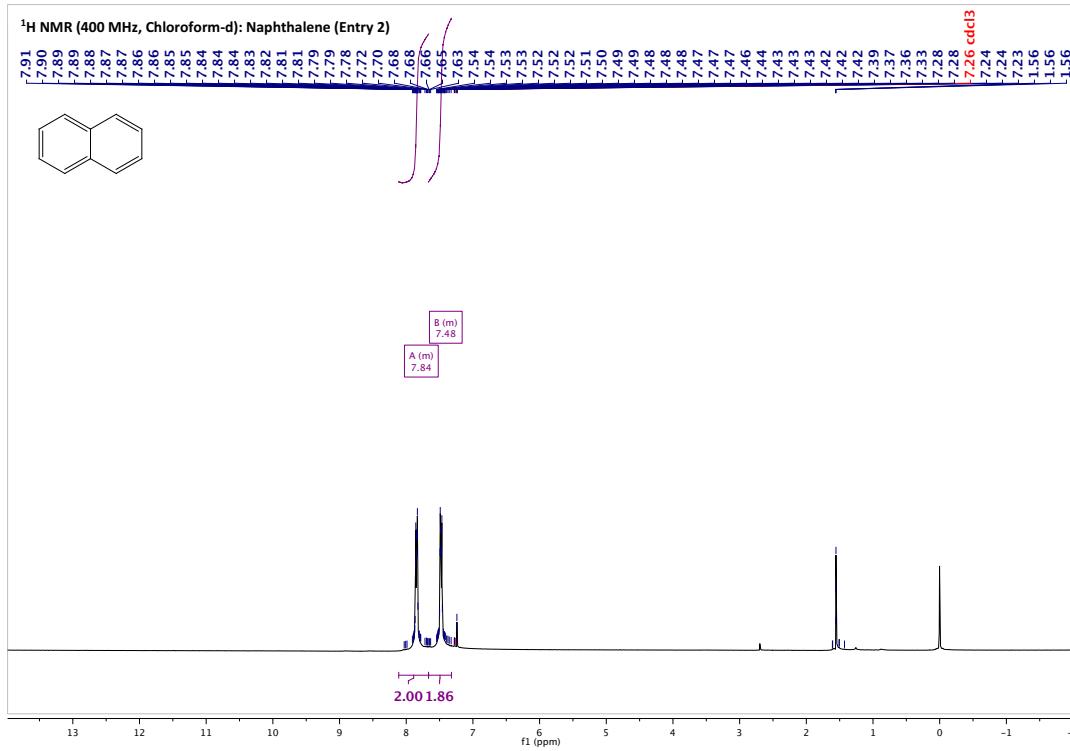
Department of Chemistry, Indian Institute of Technology Bombay,  
Powai, Mumbai 400076

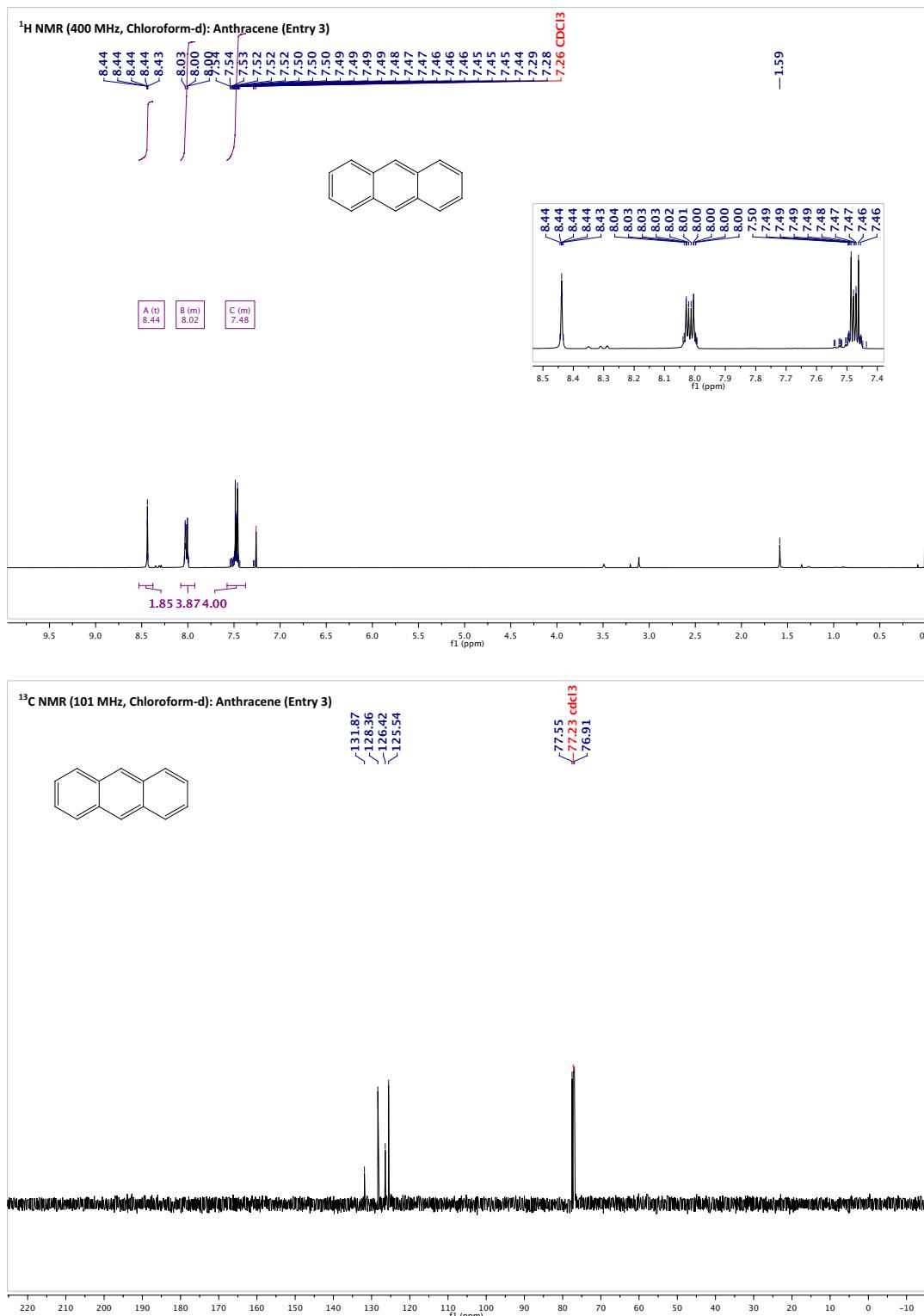
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[dmaiti@chem.iitb.ac.in](mailto:dmaiti@chem.iitb.ac.in)

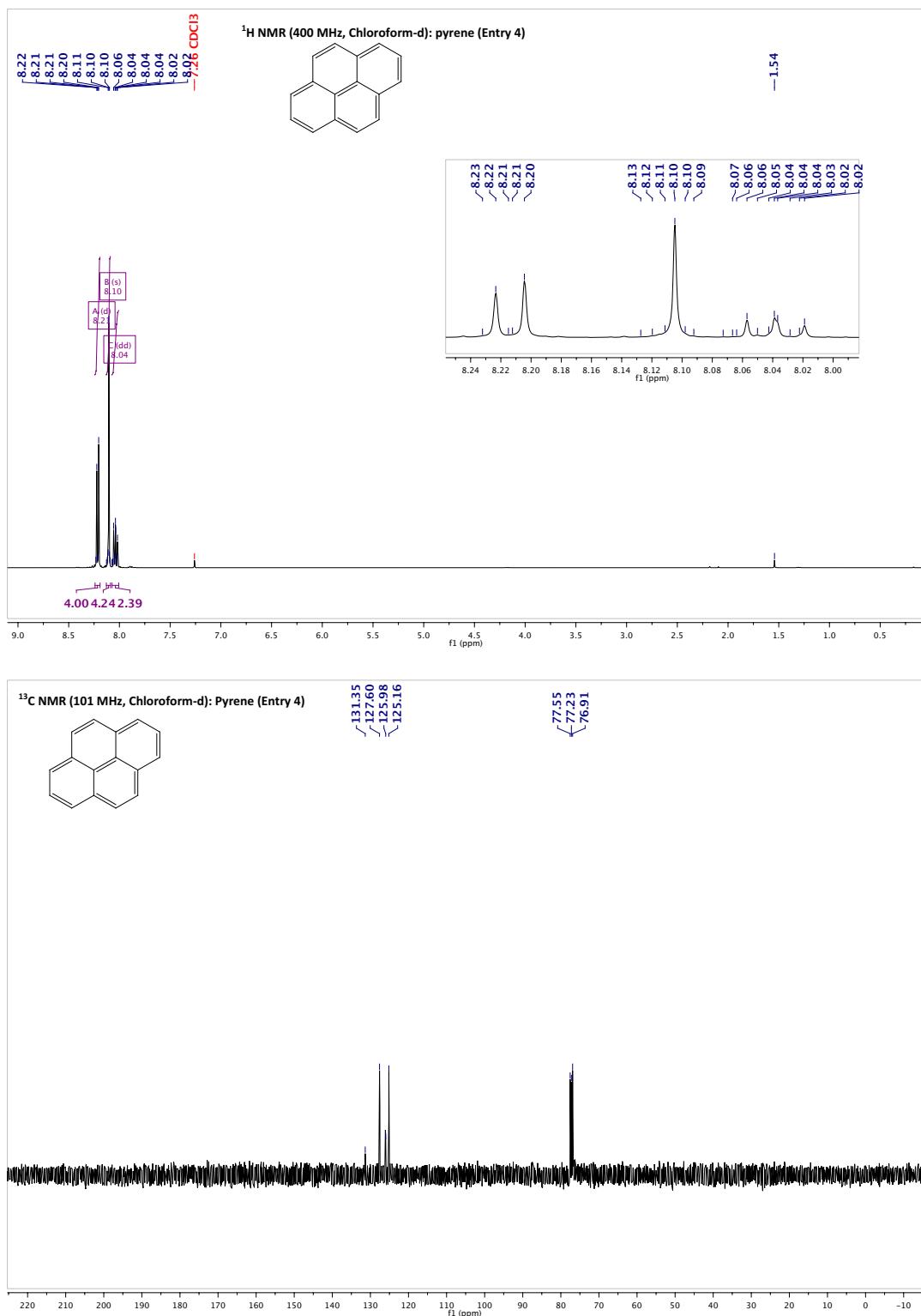
*Spectral Data (<sup>1</sup>H NMR, <sup>13</sup>C NMR)*

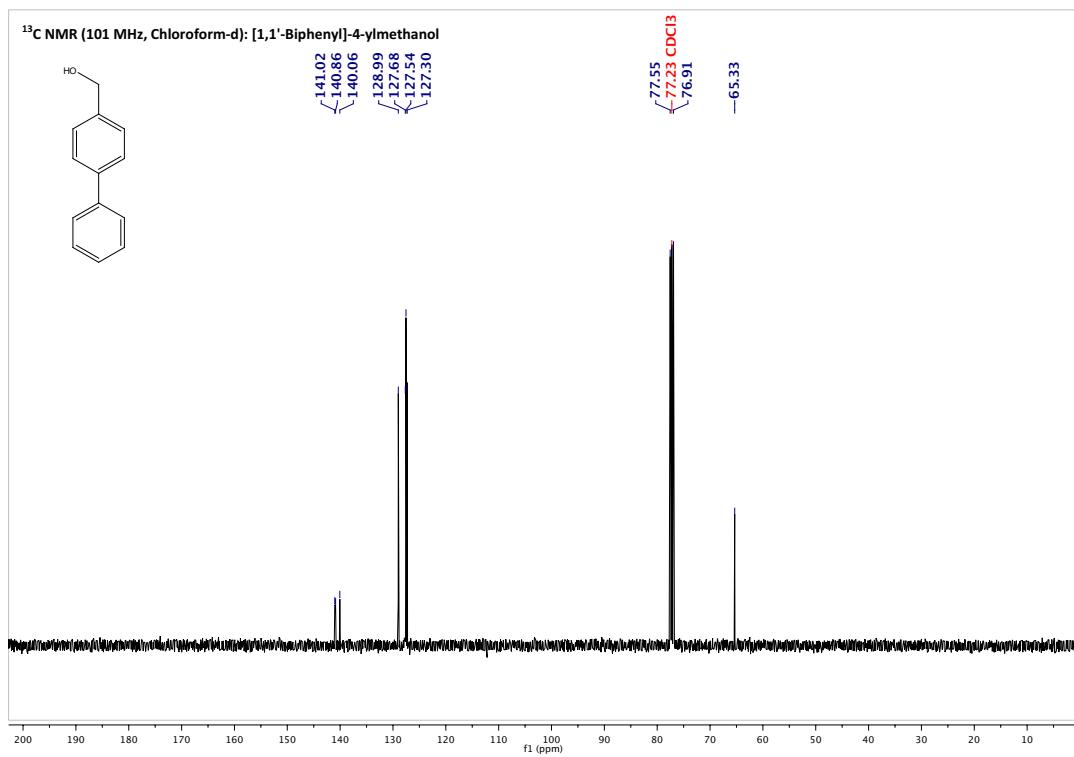
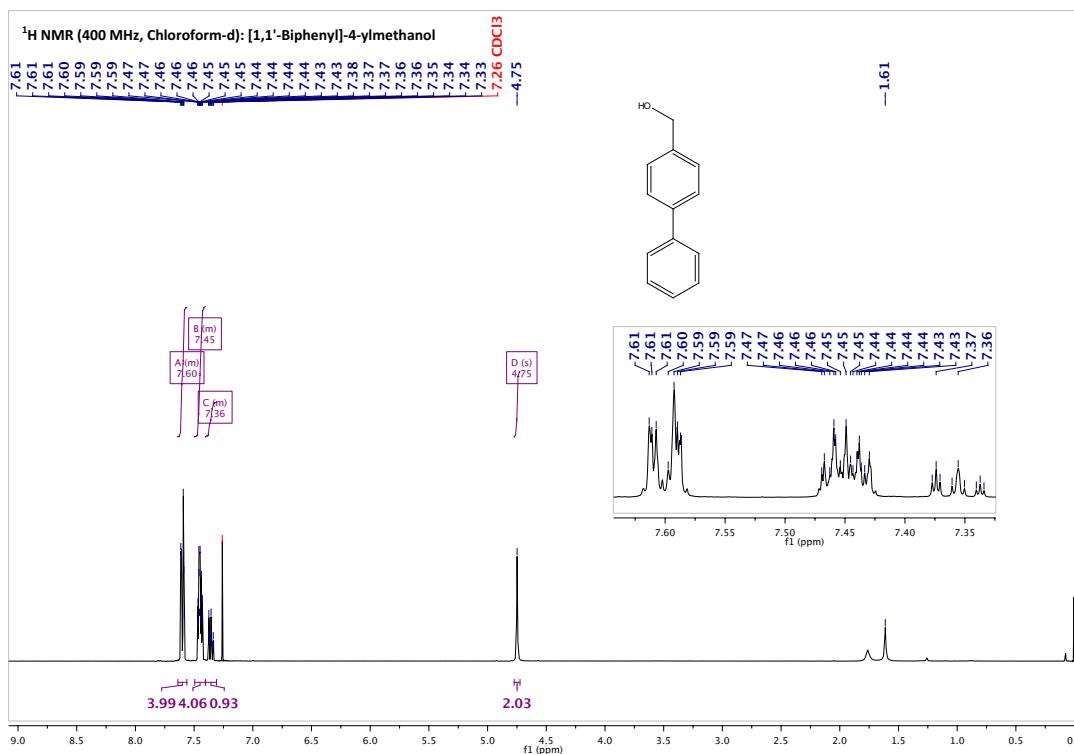


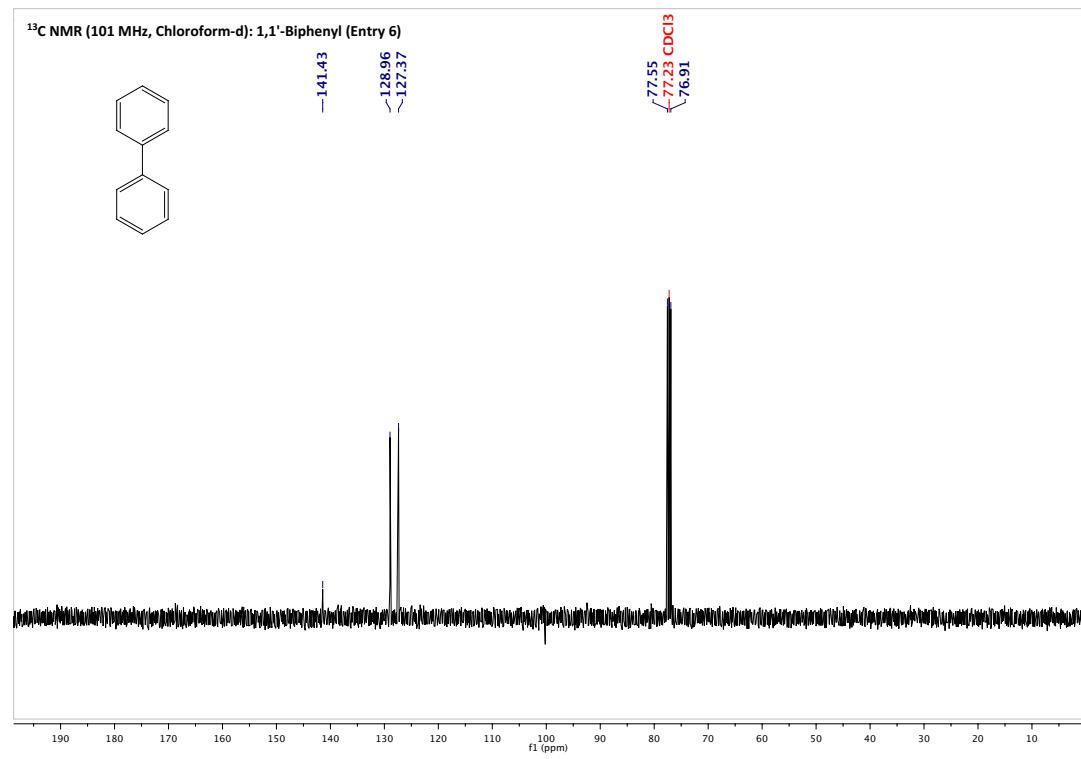
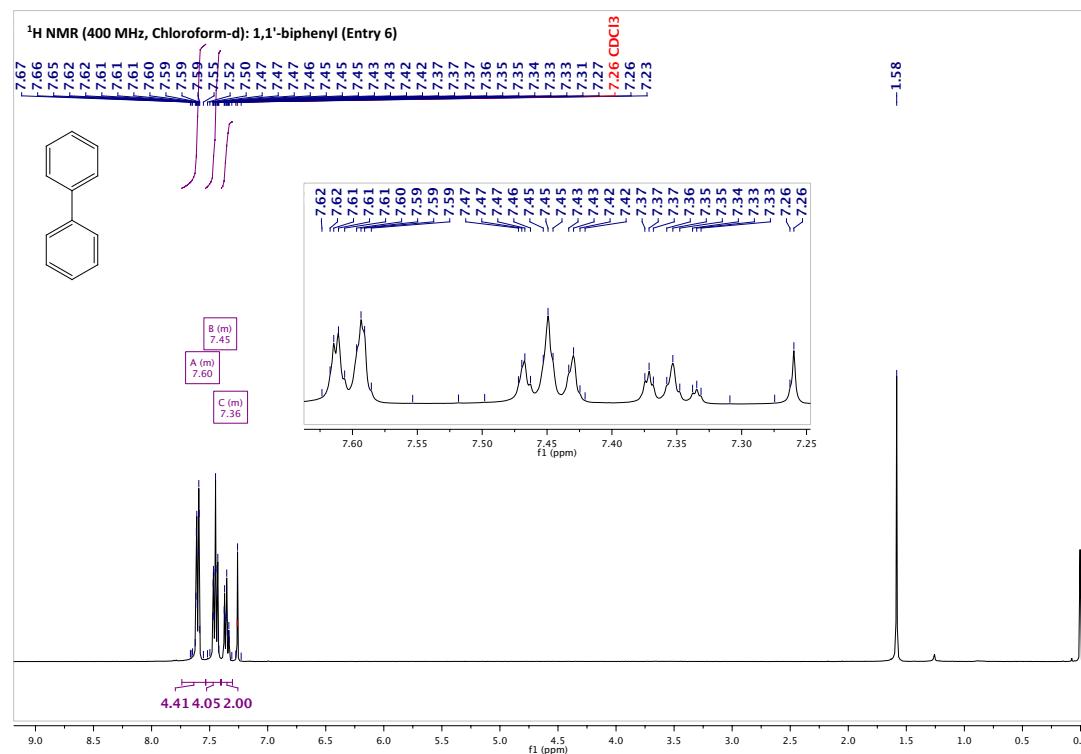


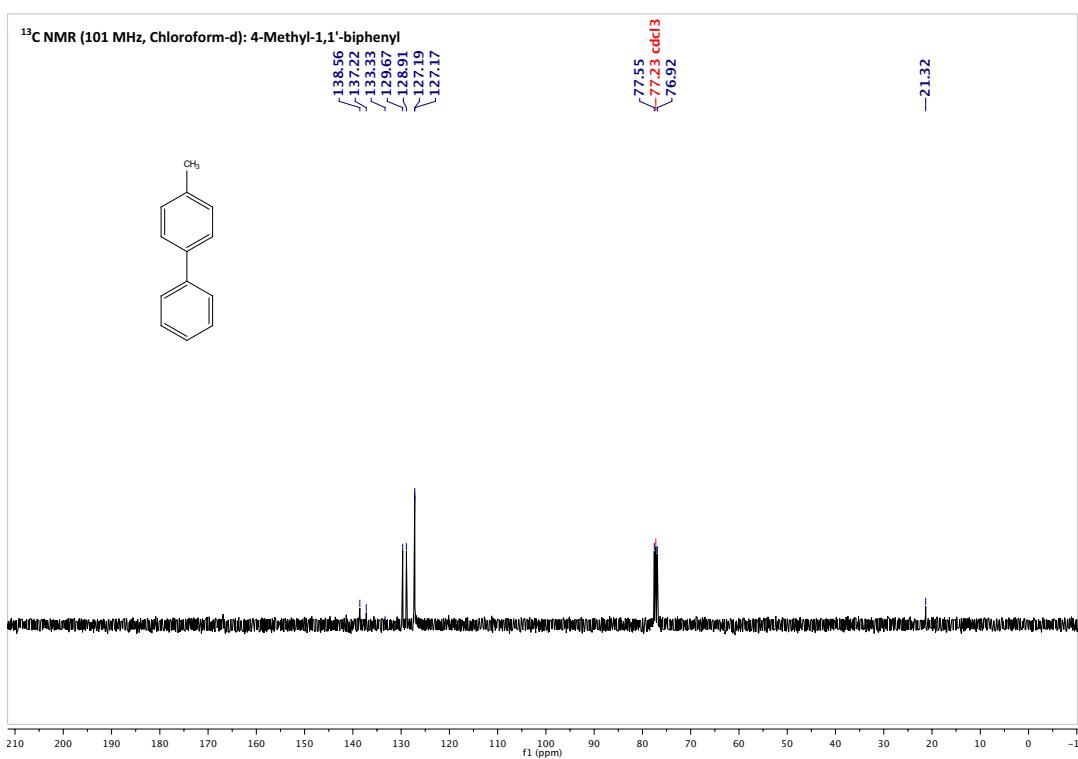
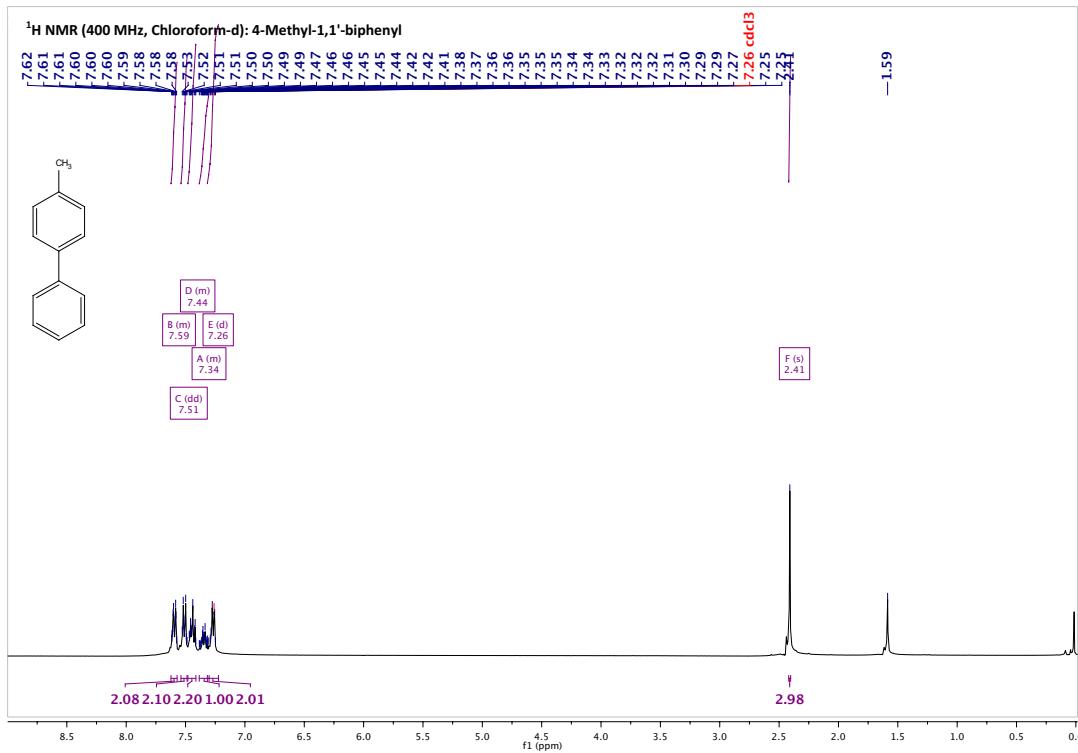


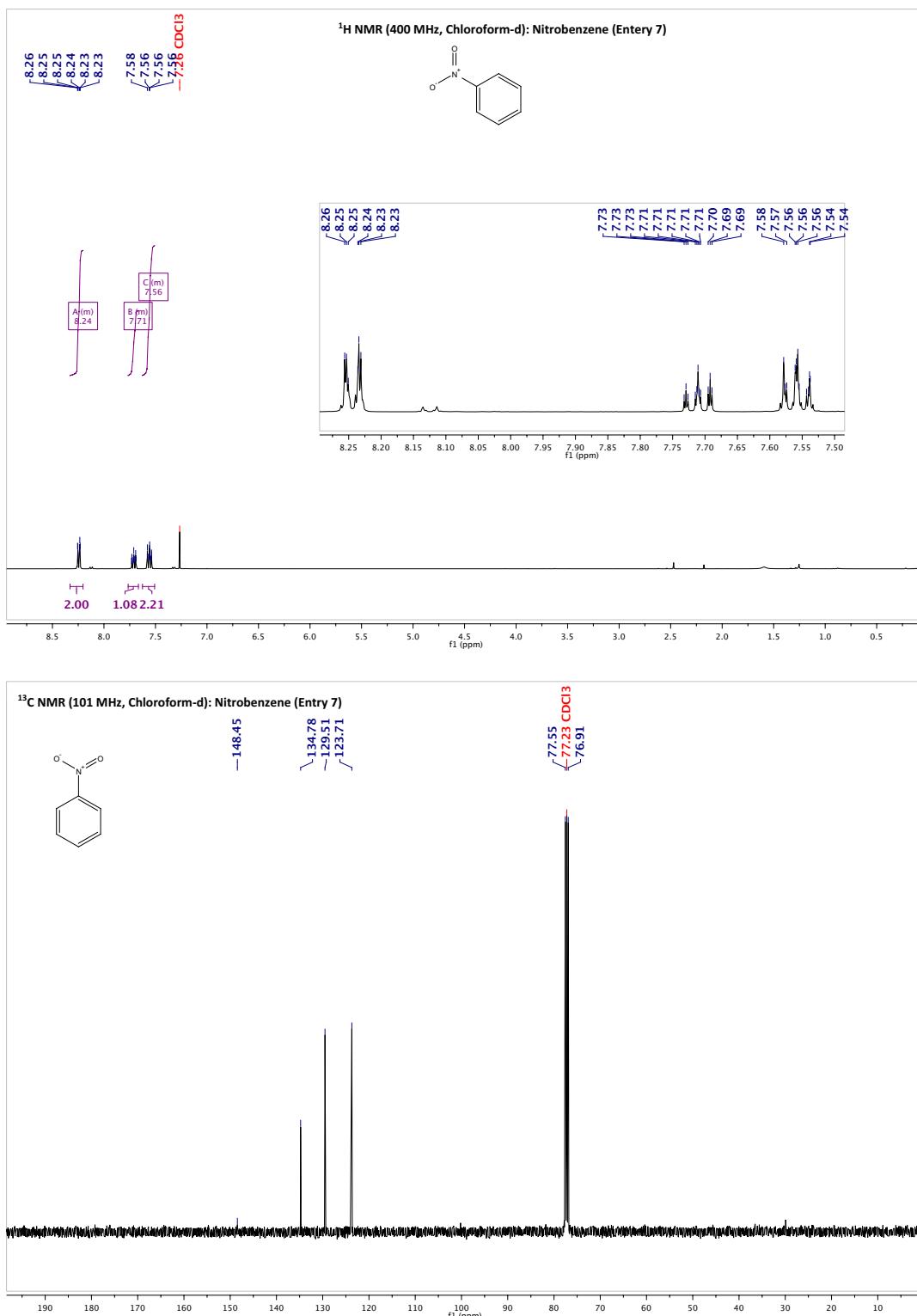


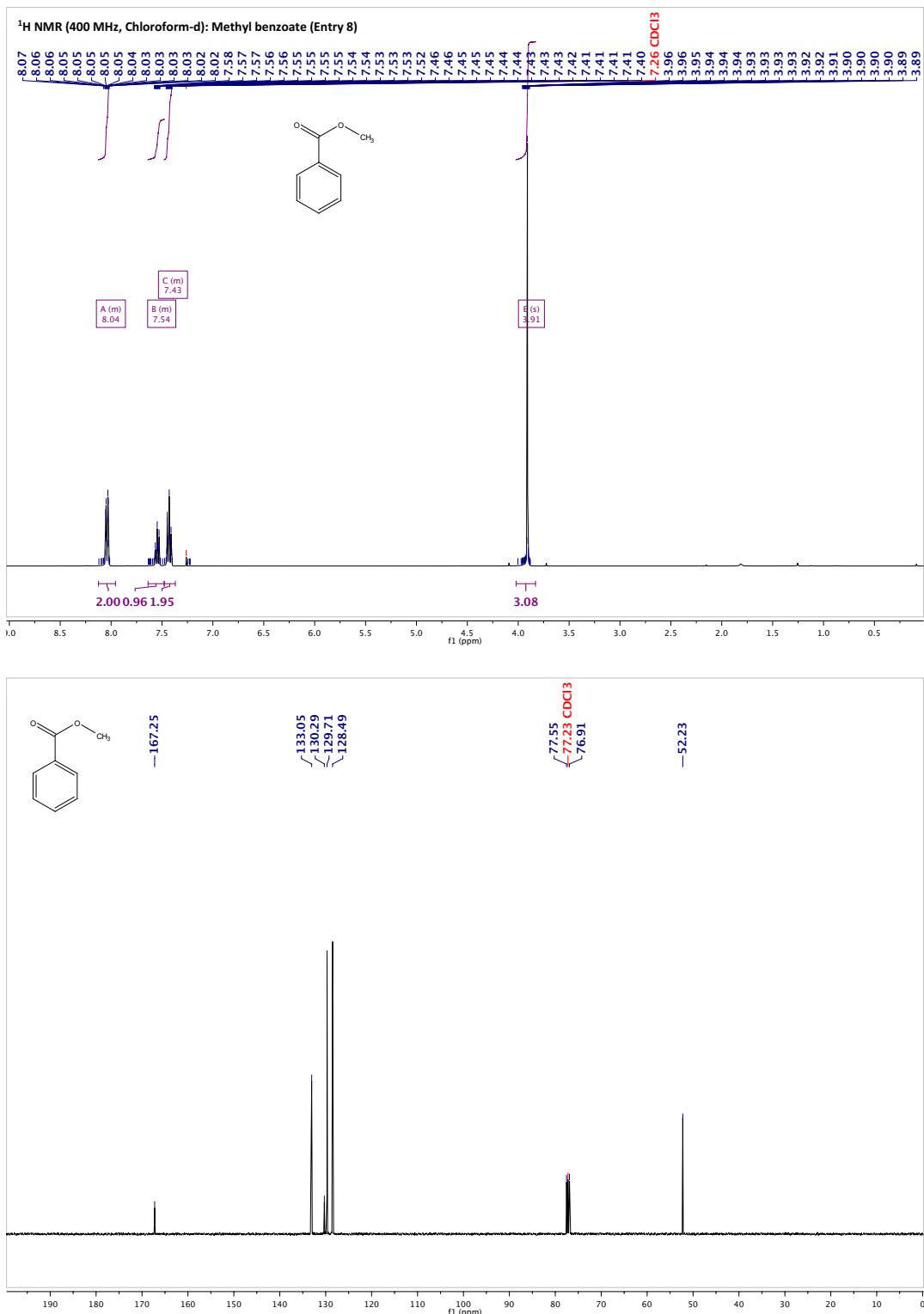


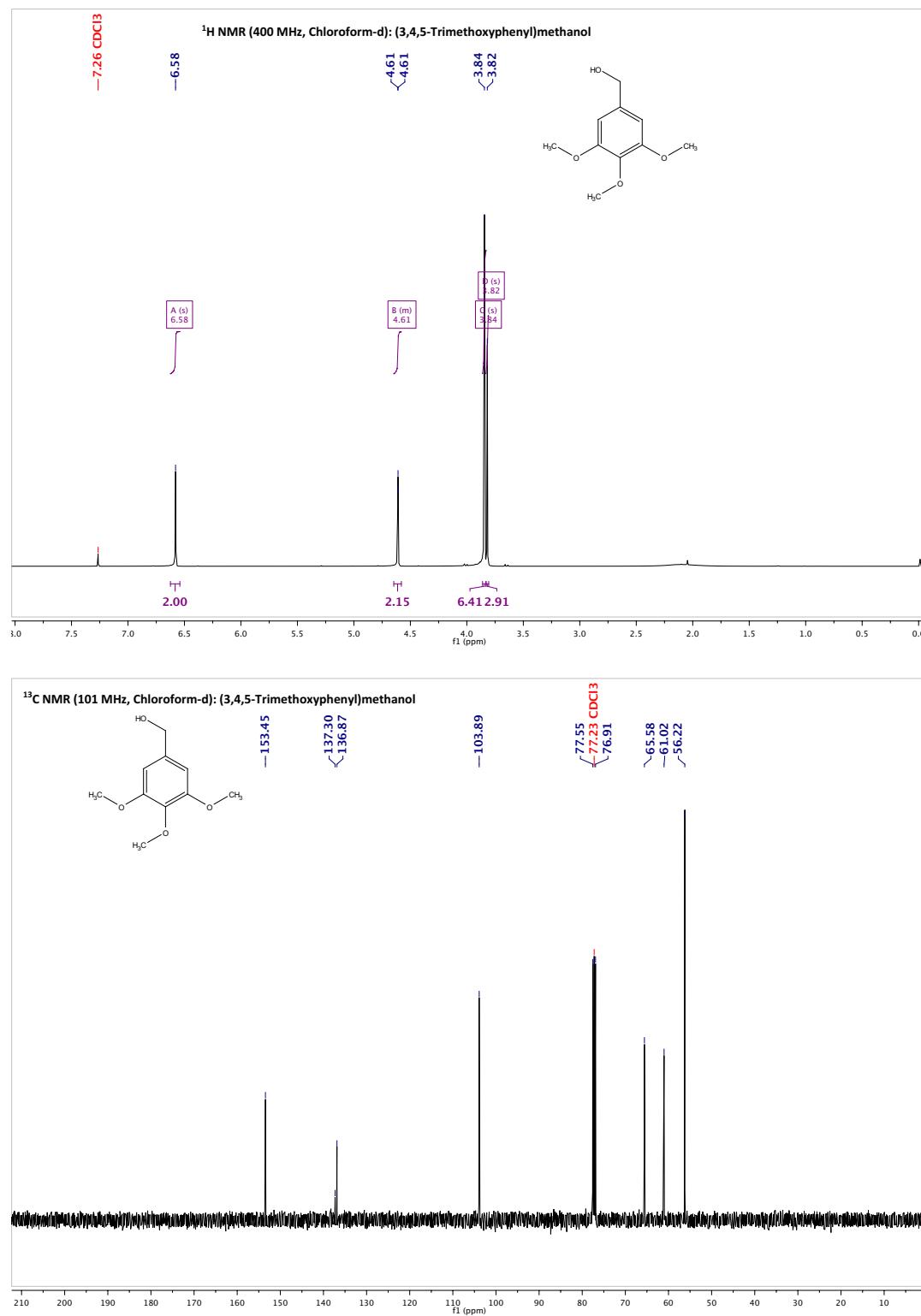


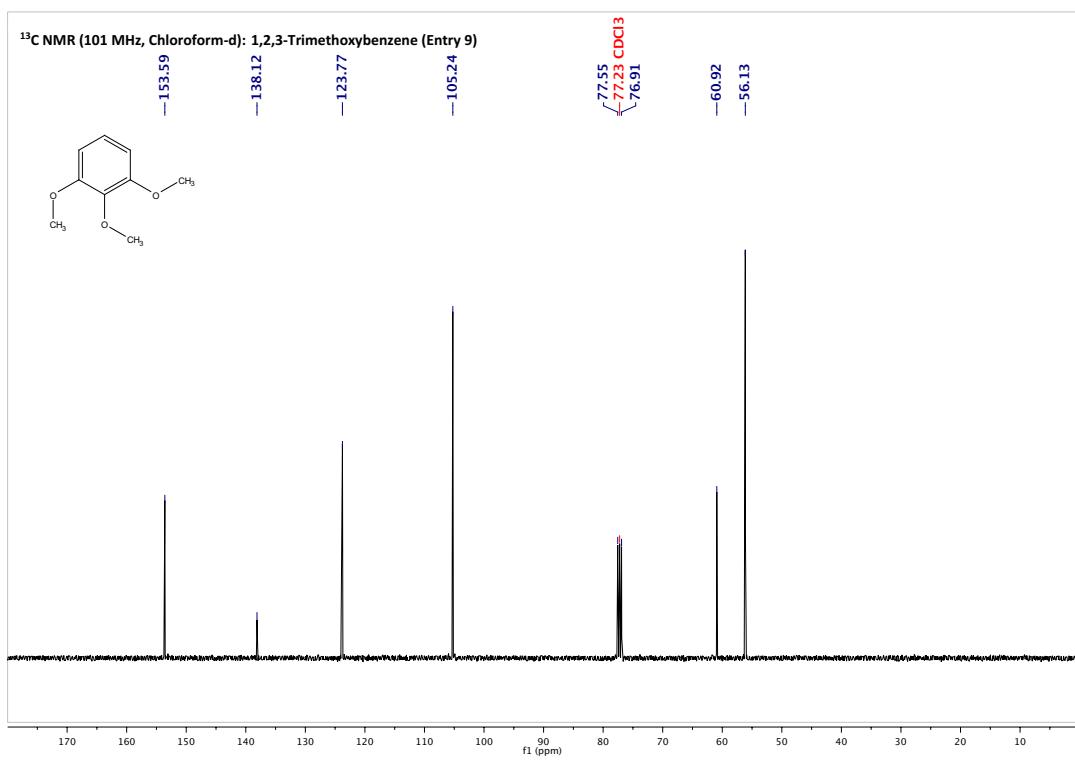
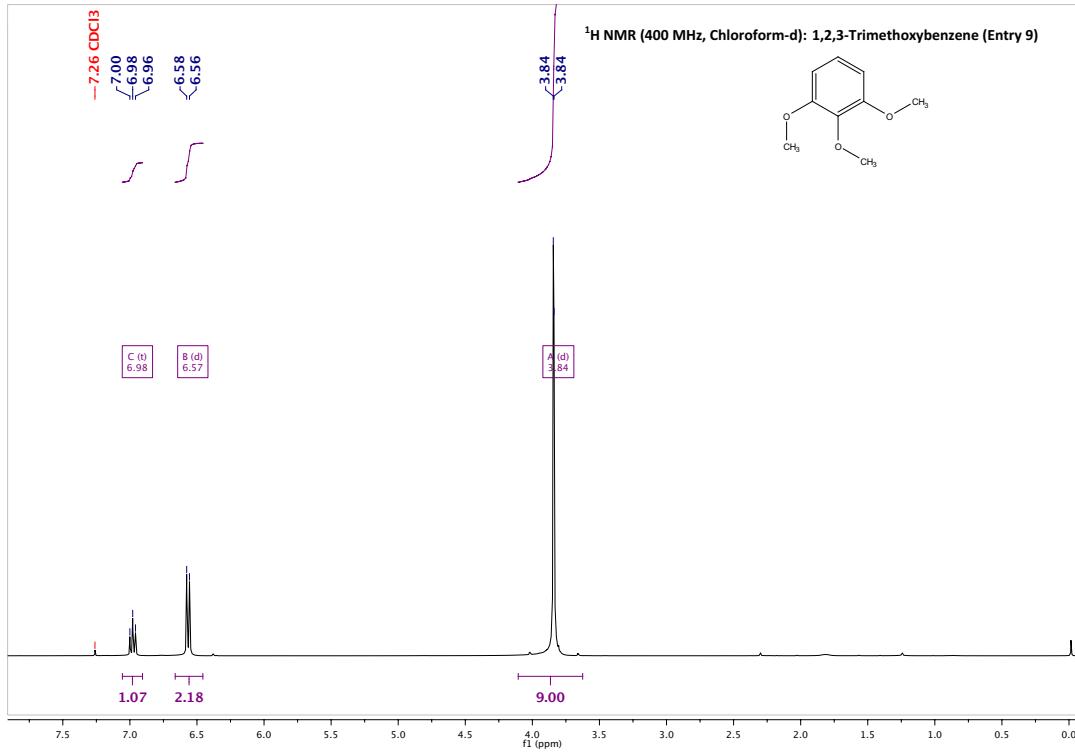


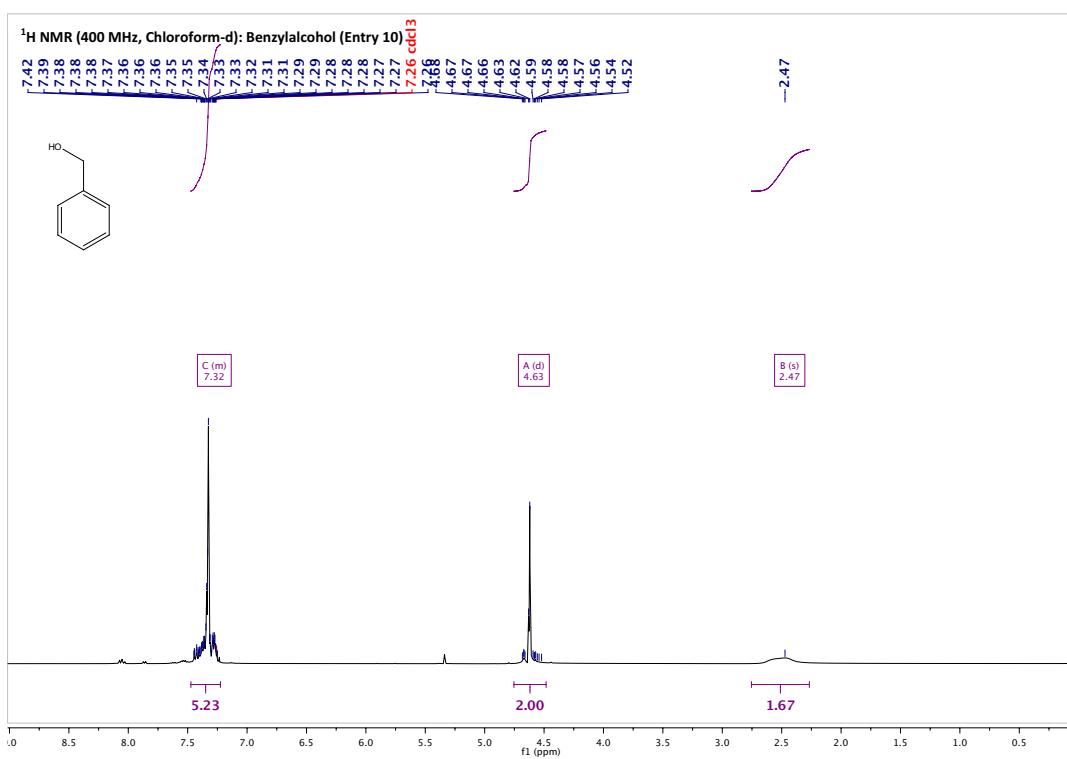
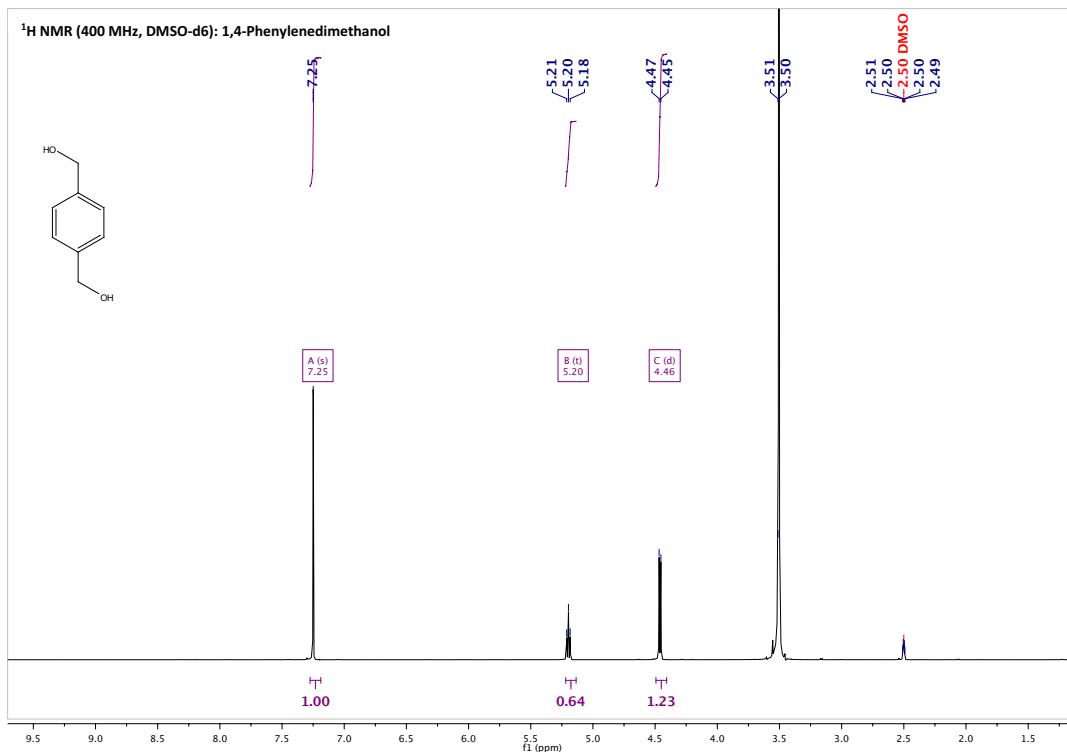


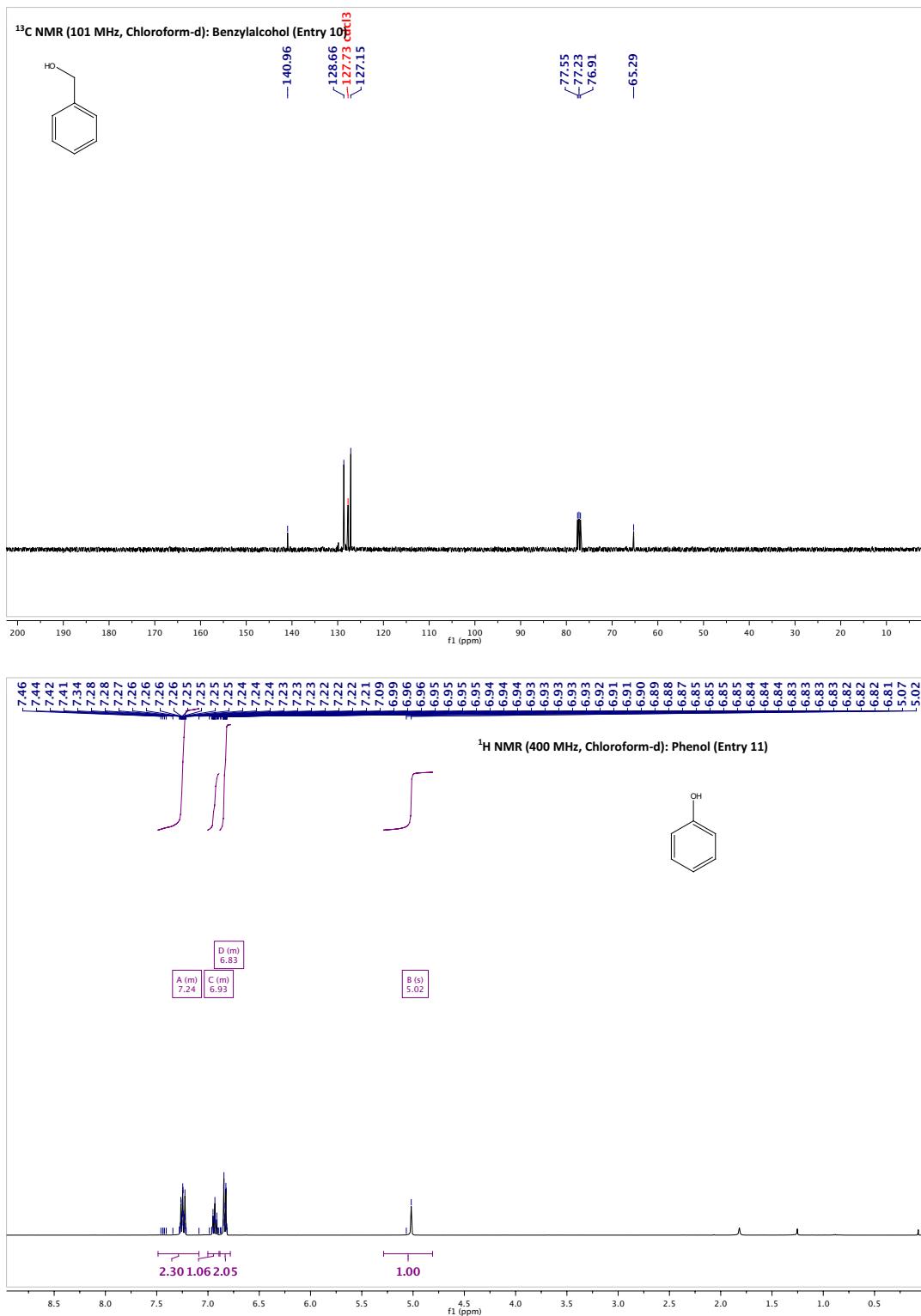


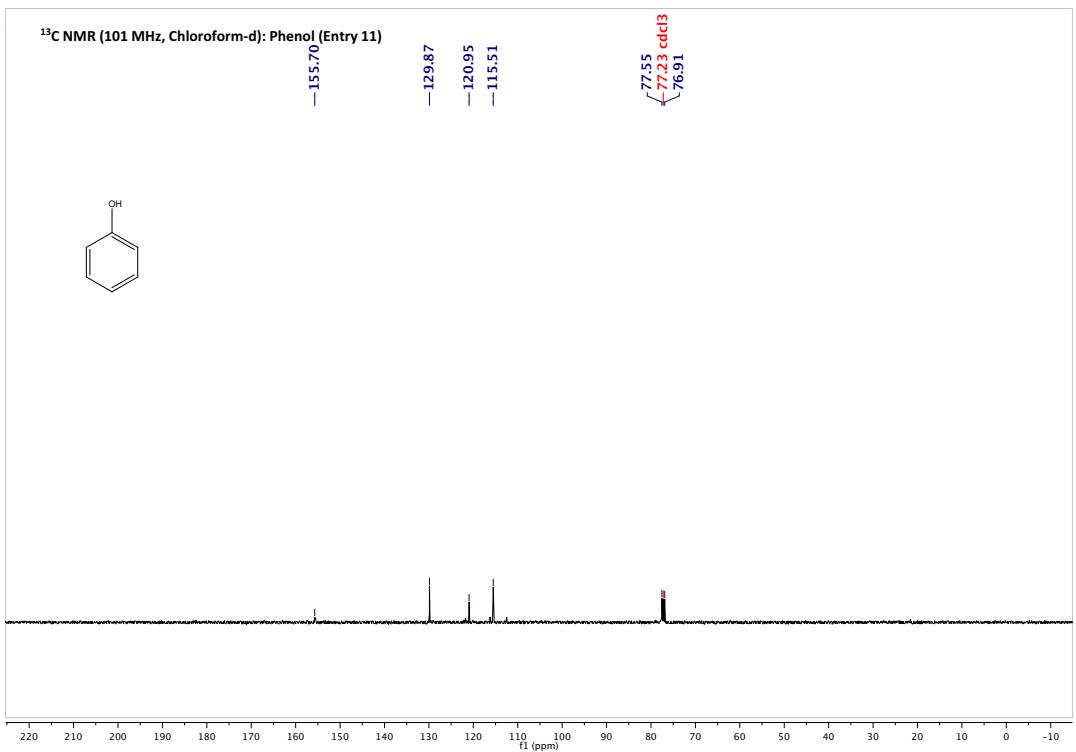




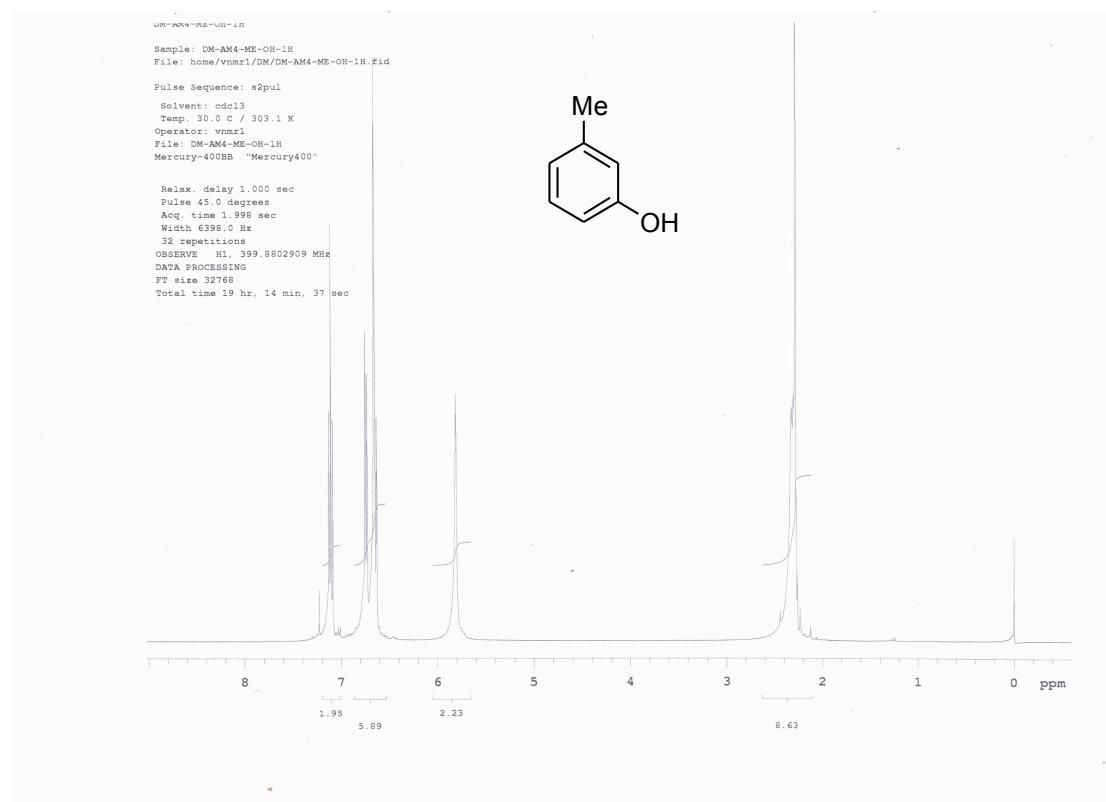


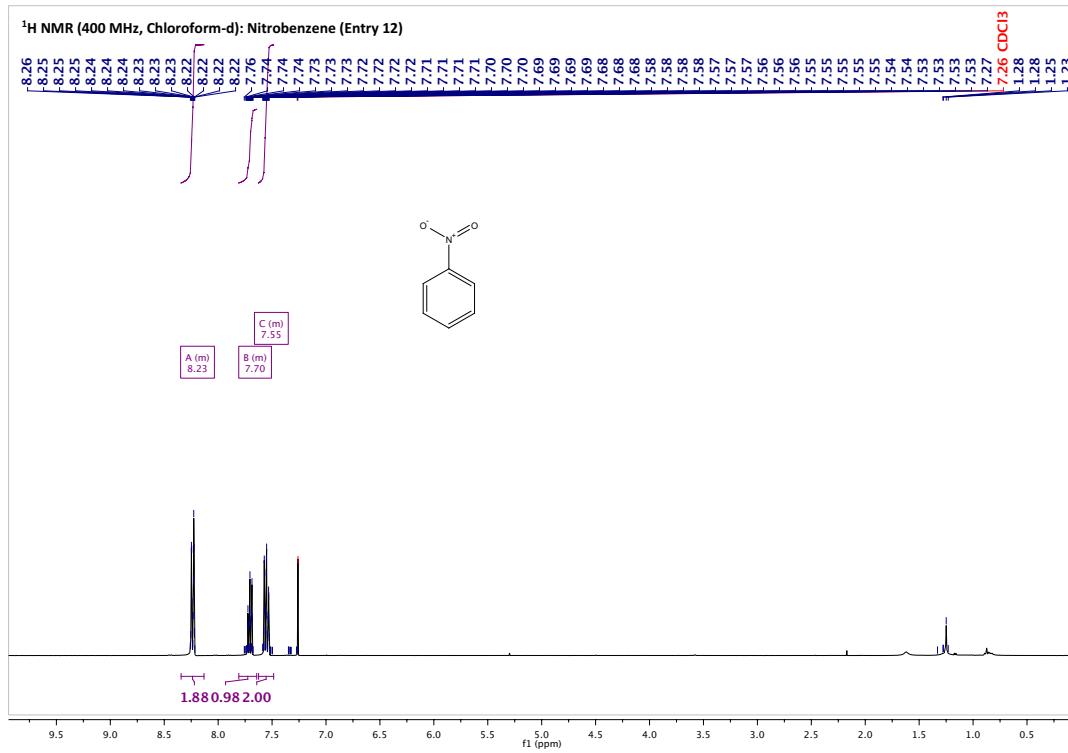
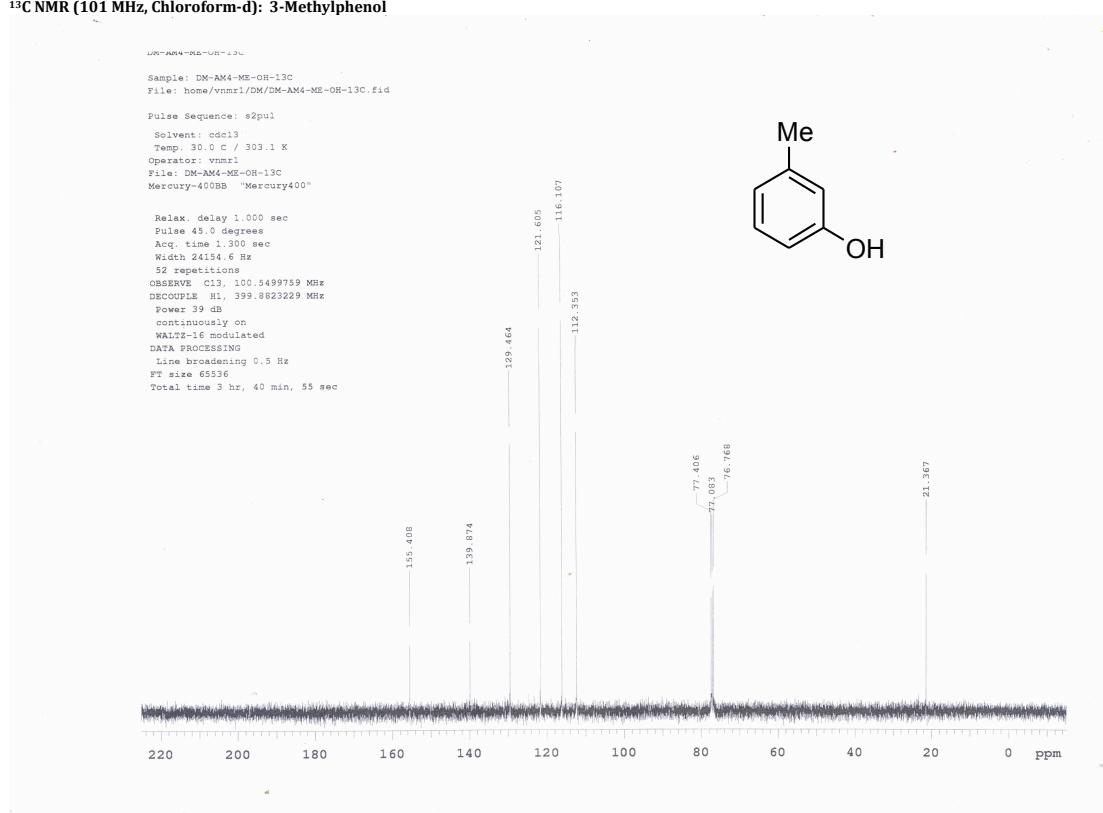


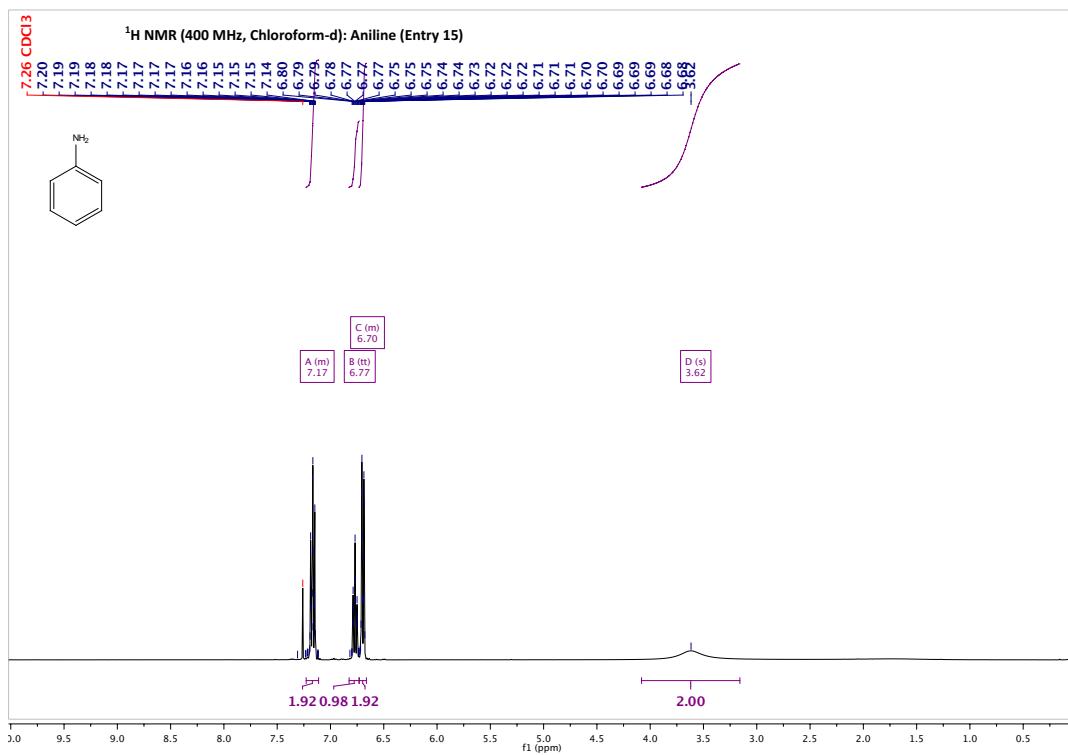
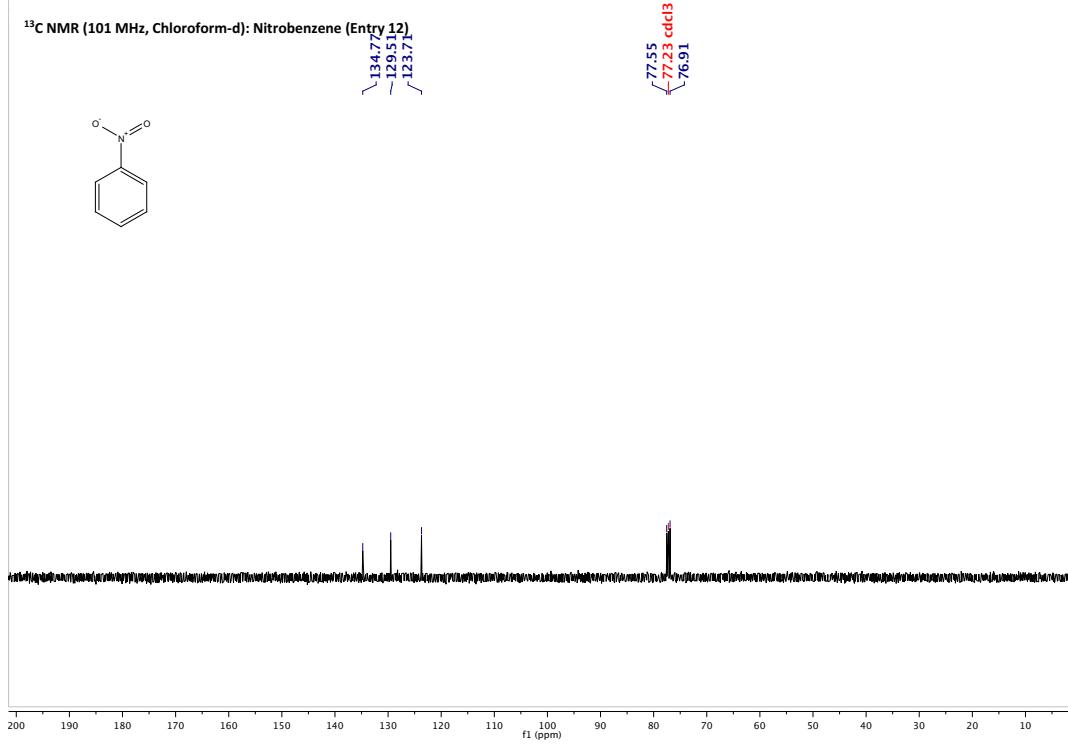


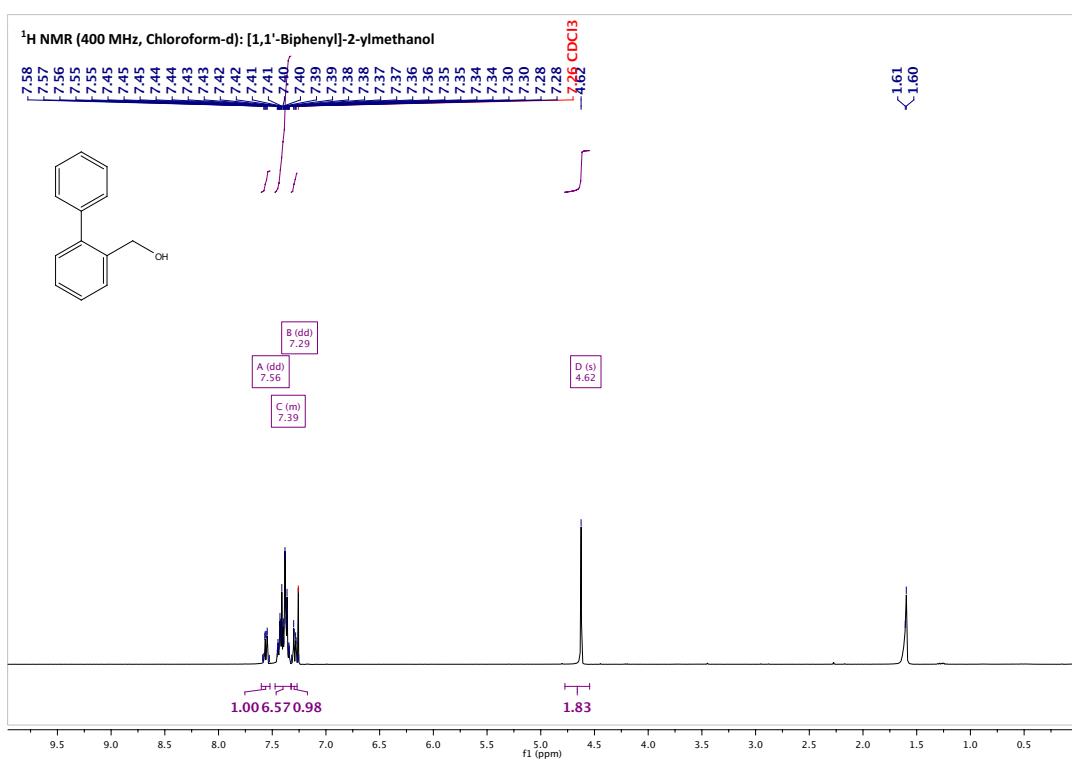
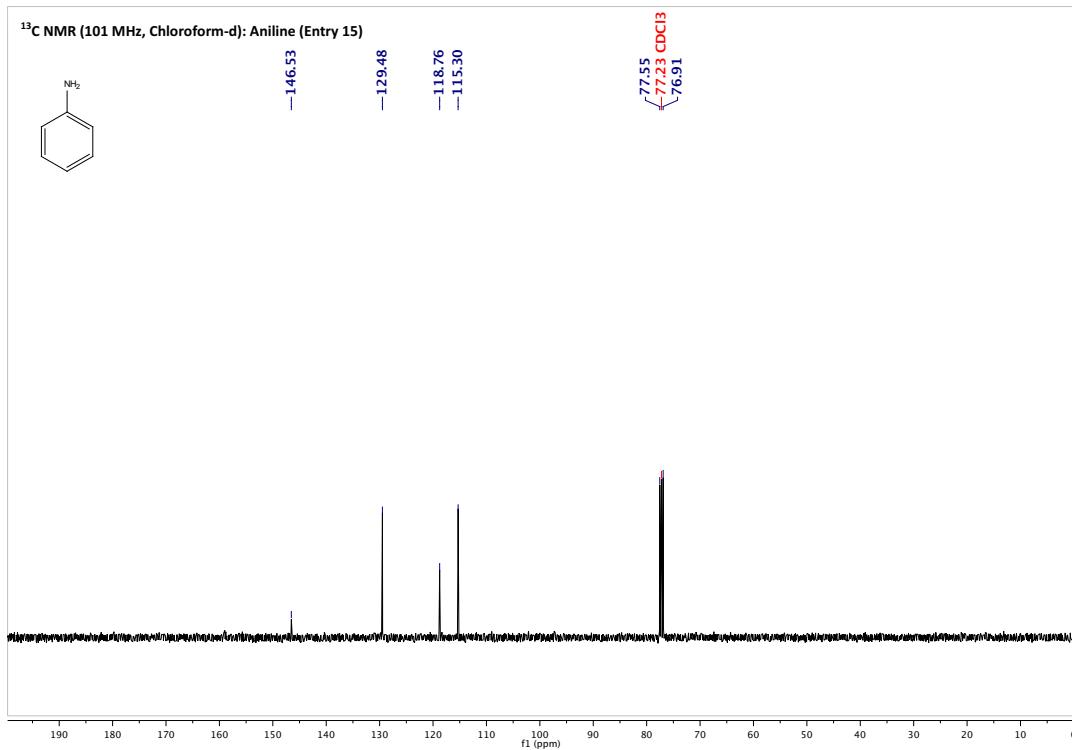


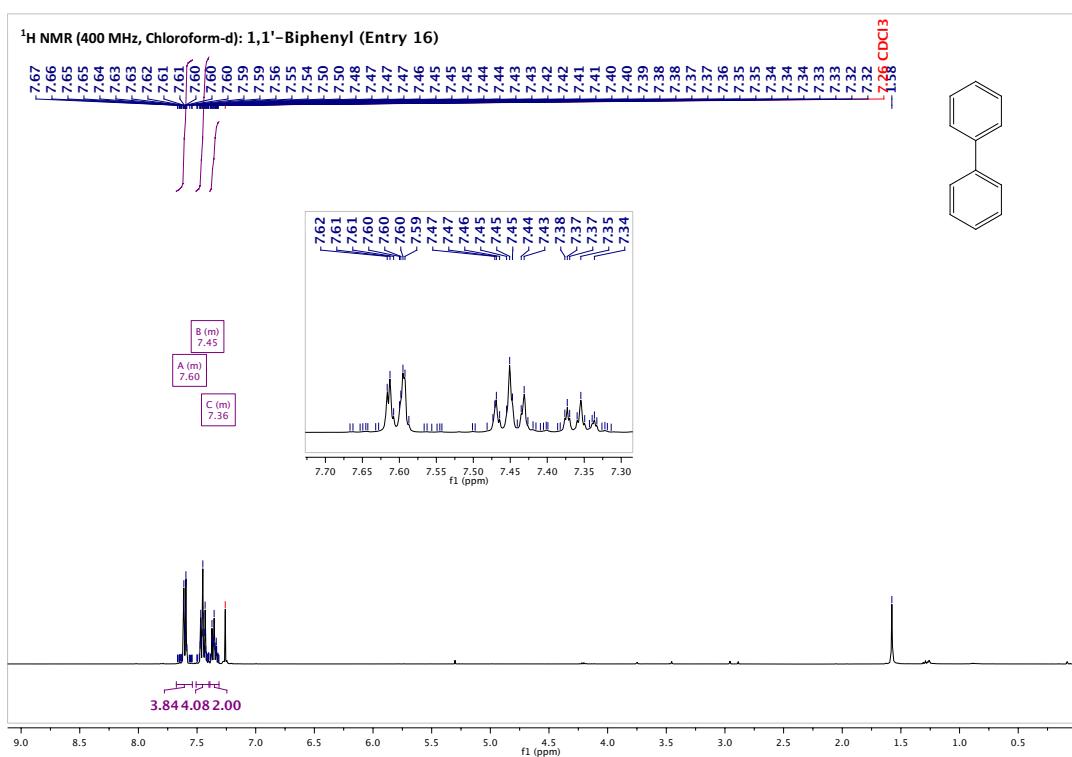
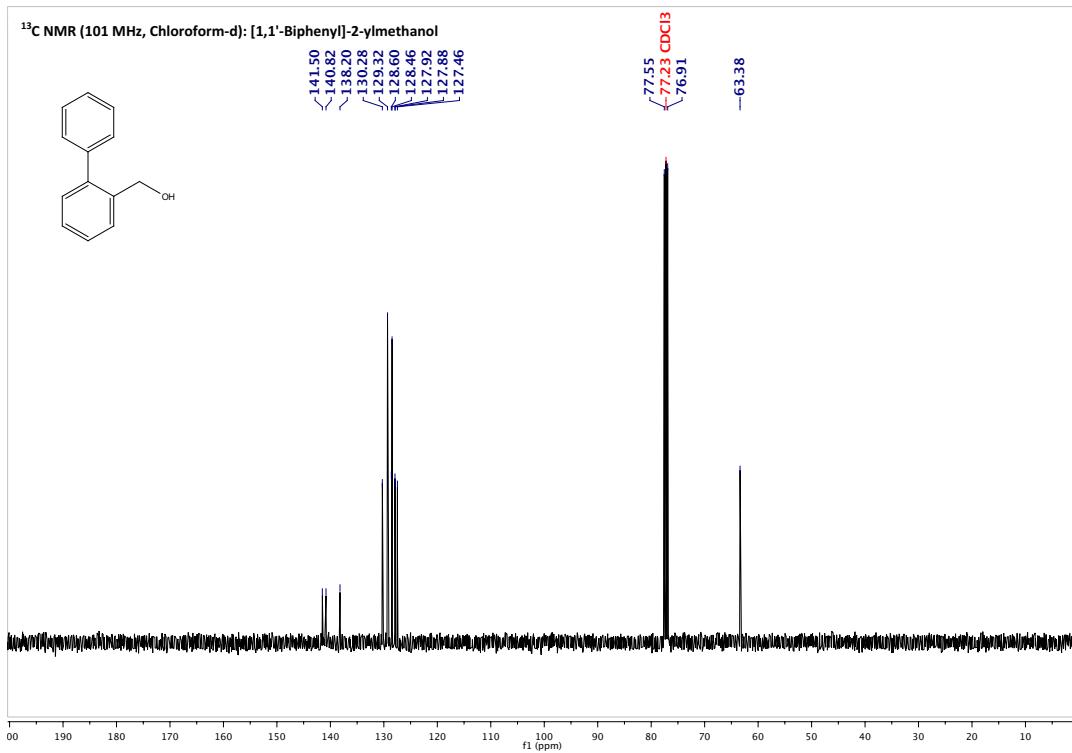
<sup>1</sup>H NMR (400 MHz, Chloroform-d): 3-Methylphenol

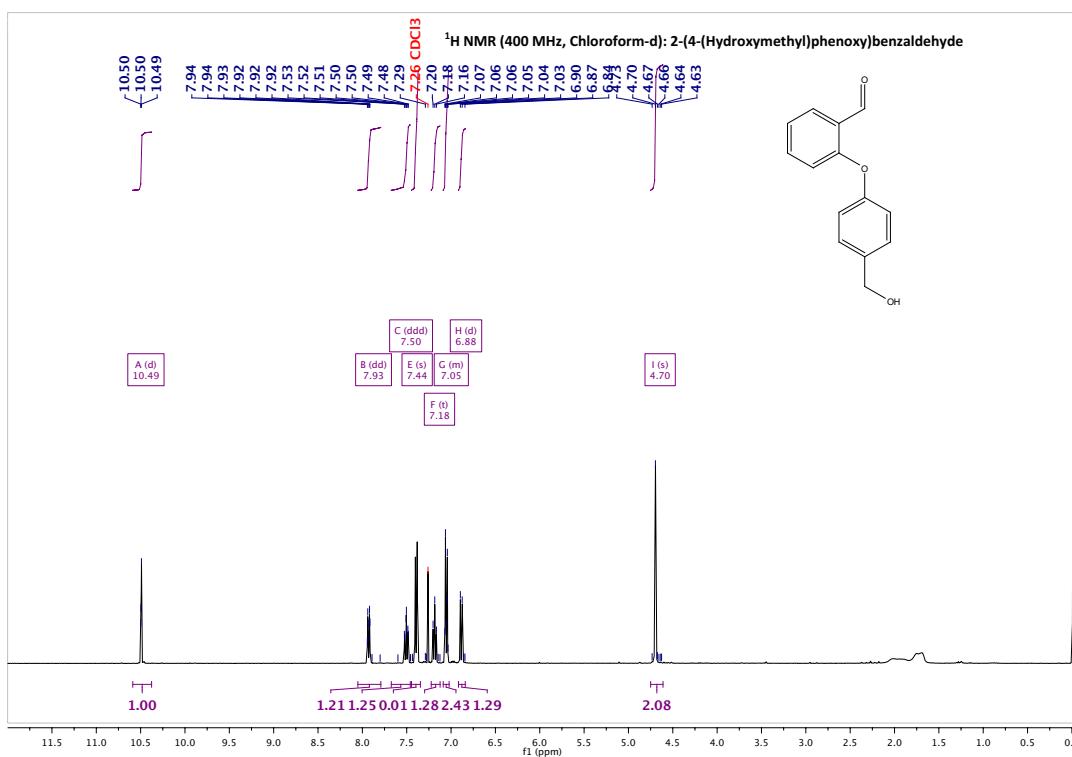
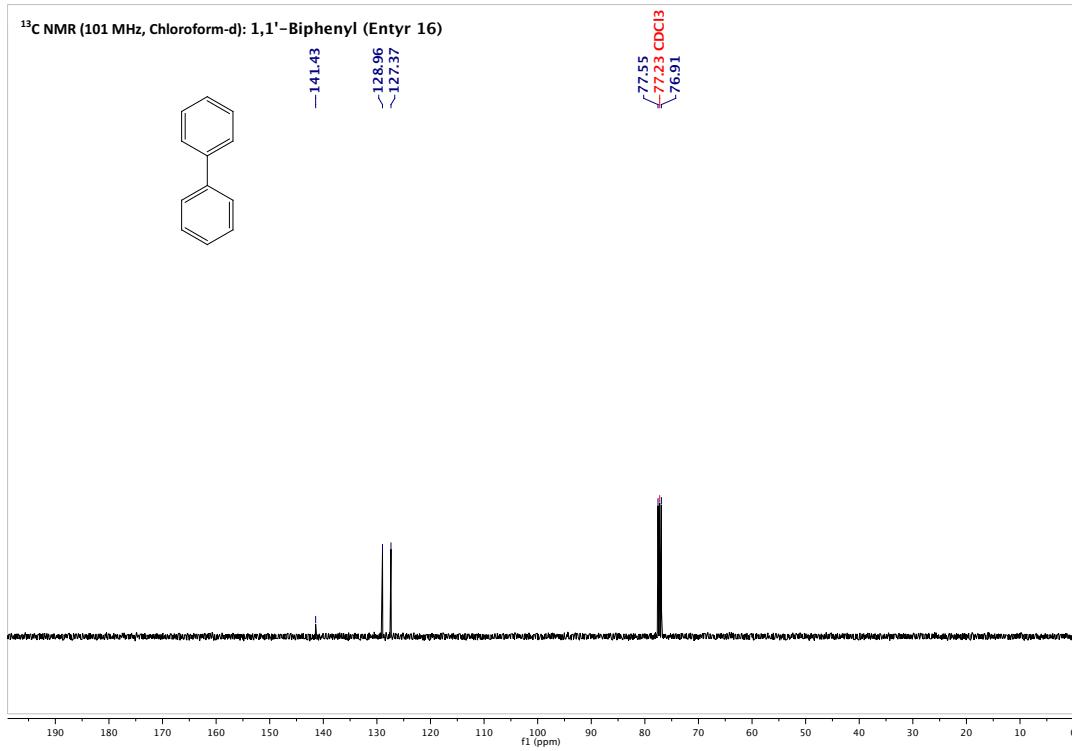


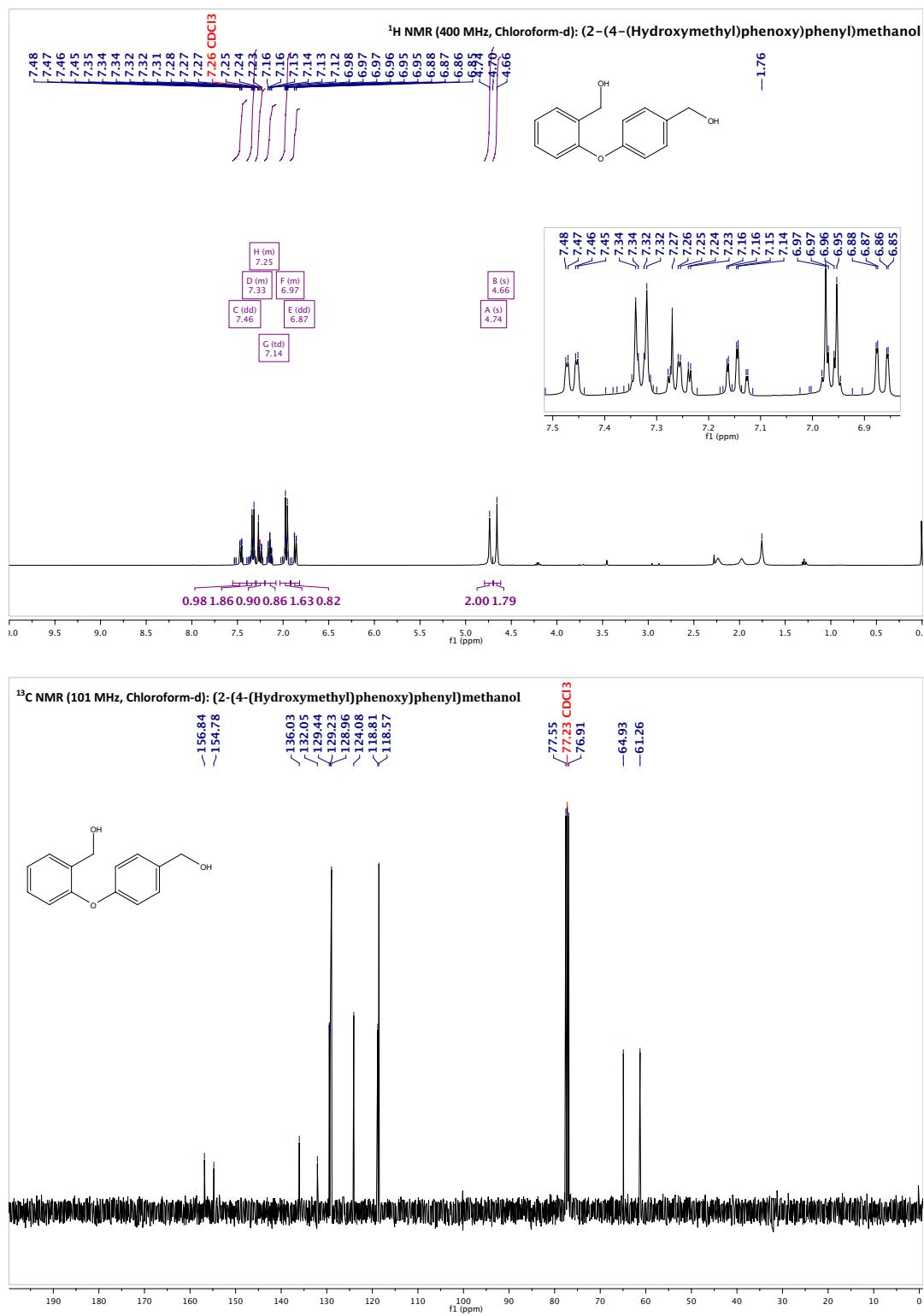


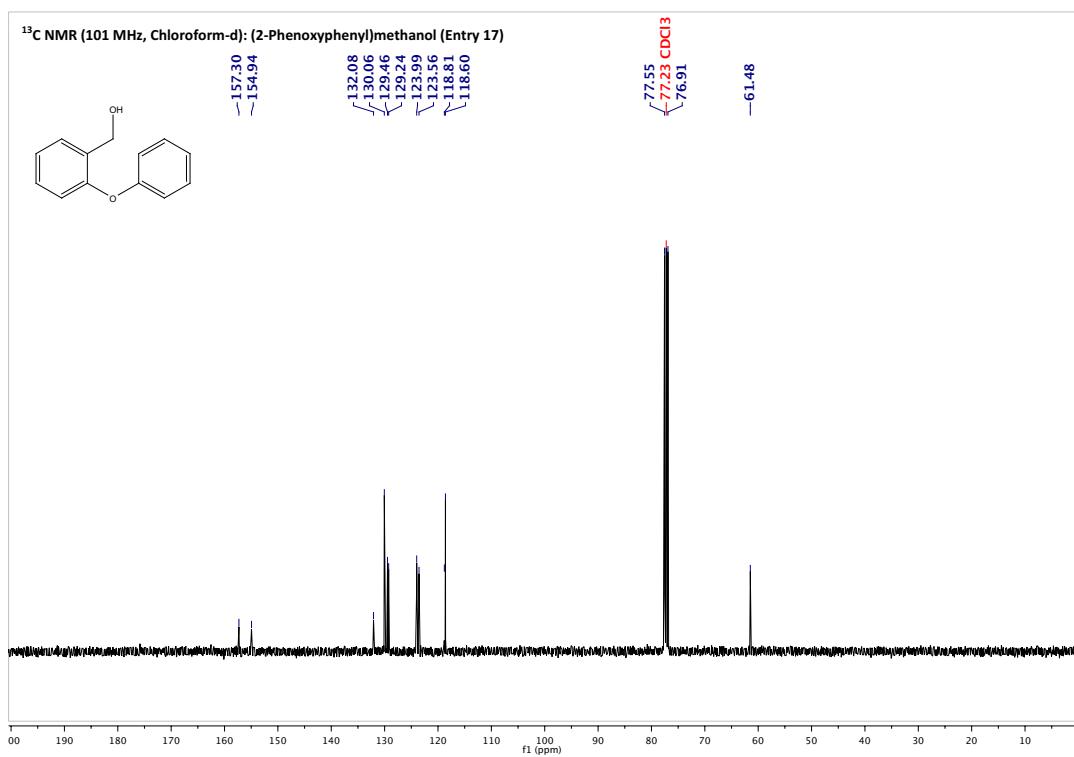
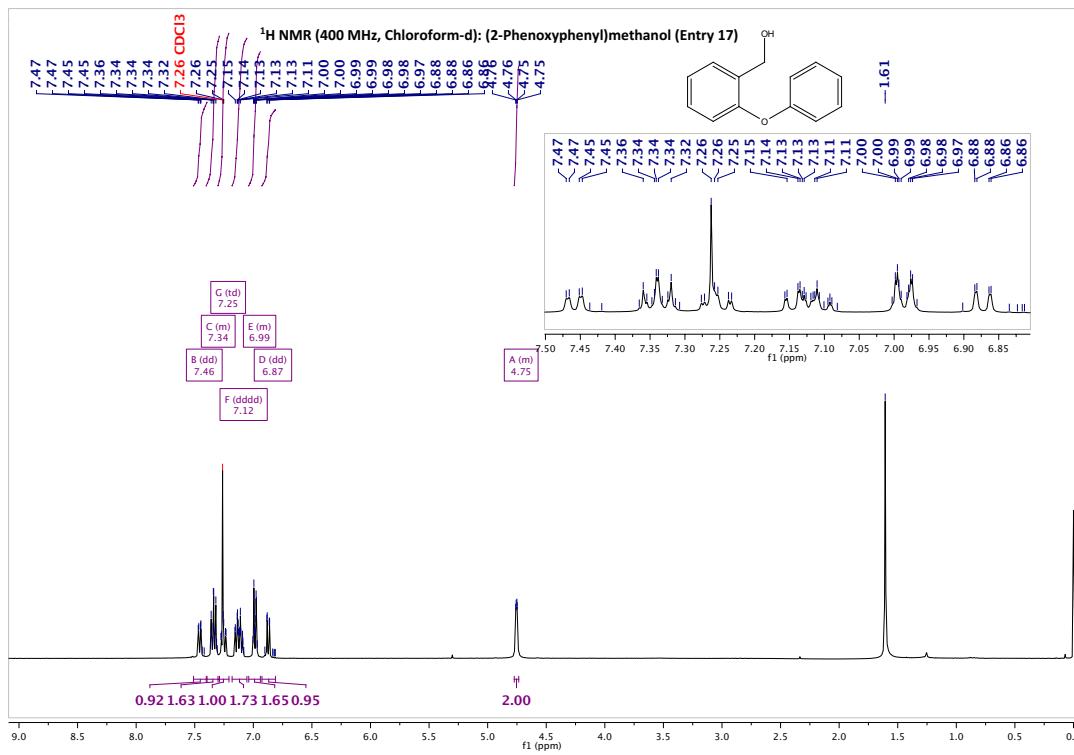




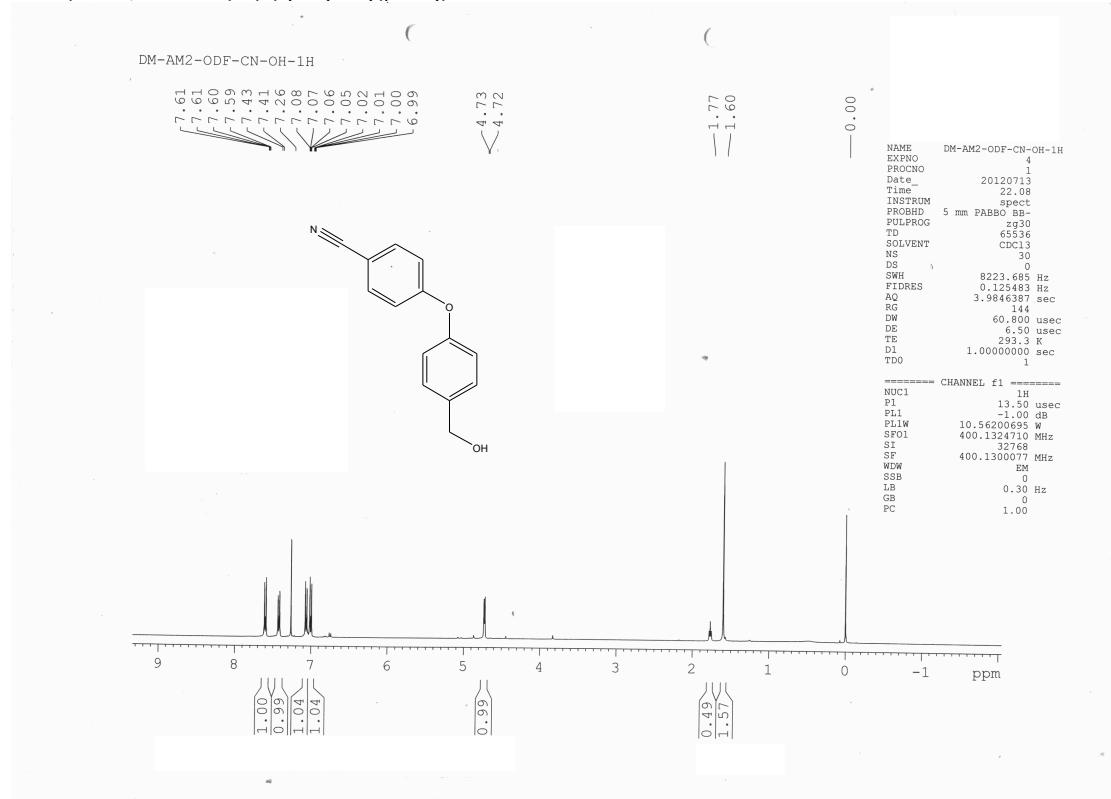




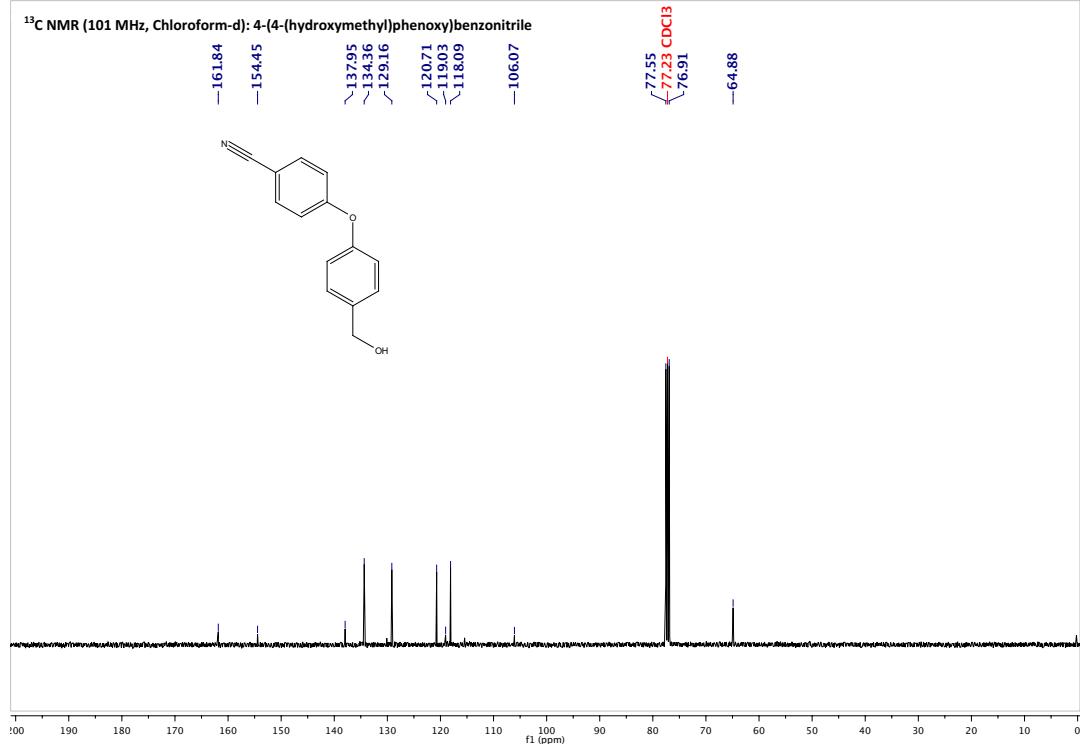


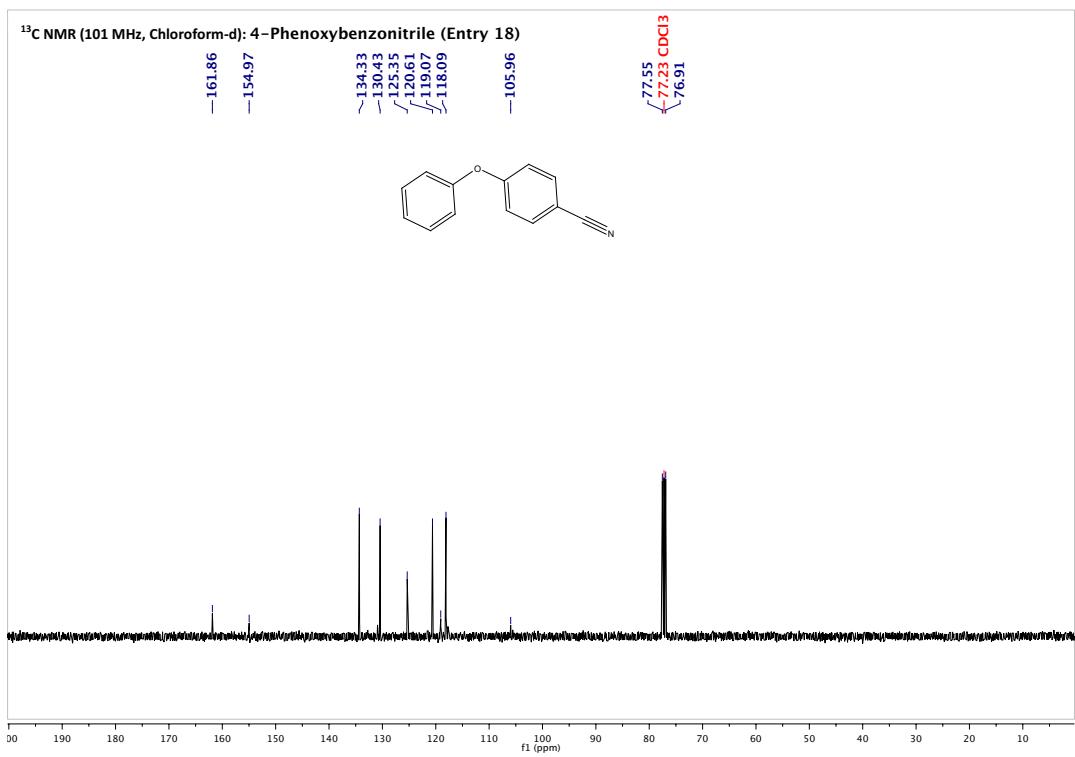
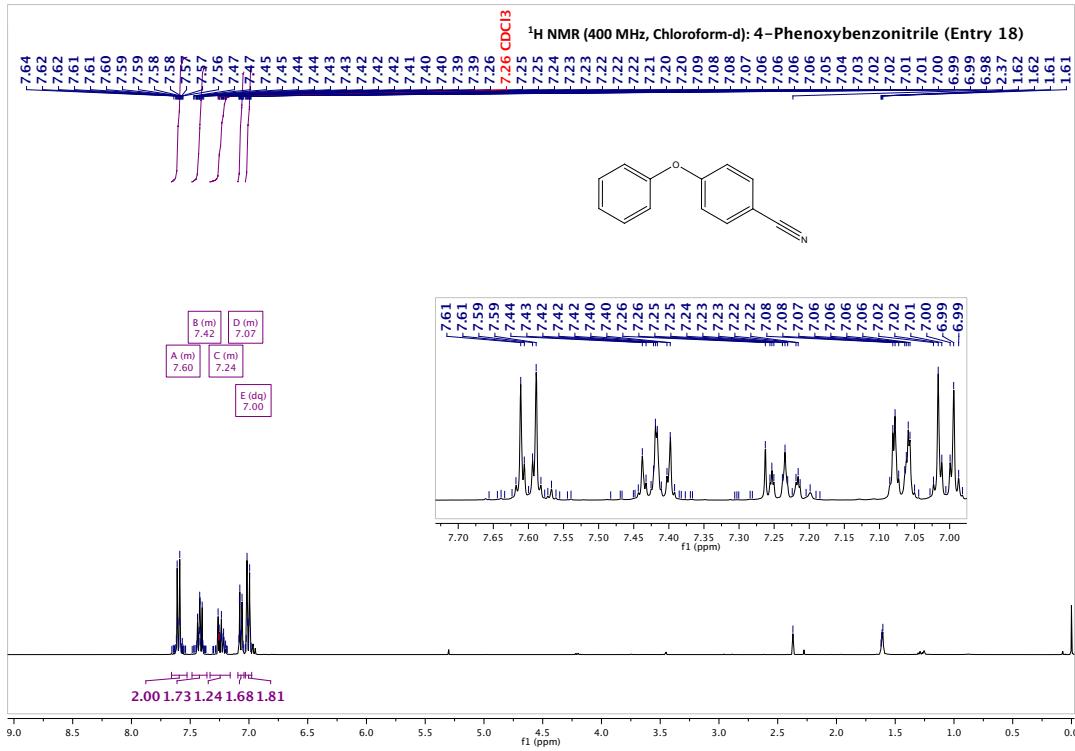


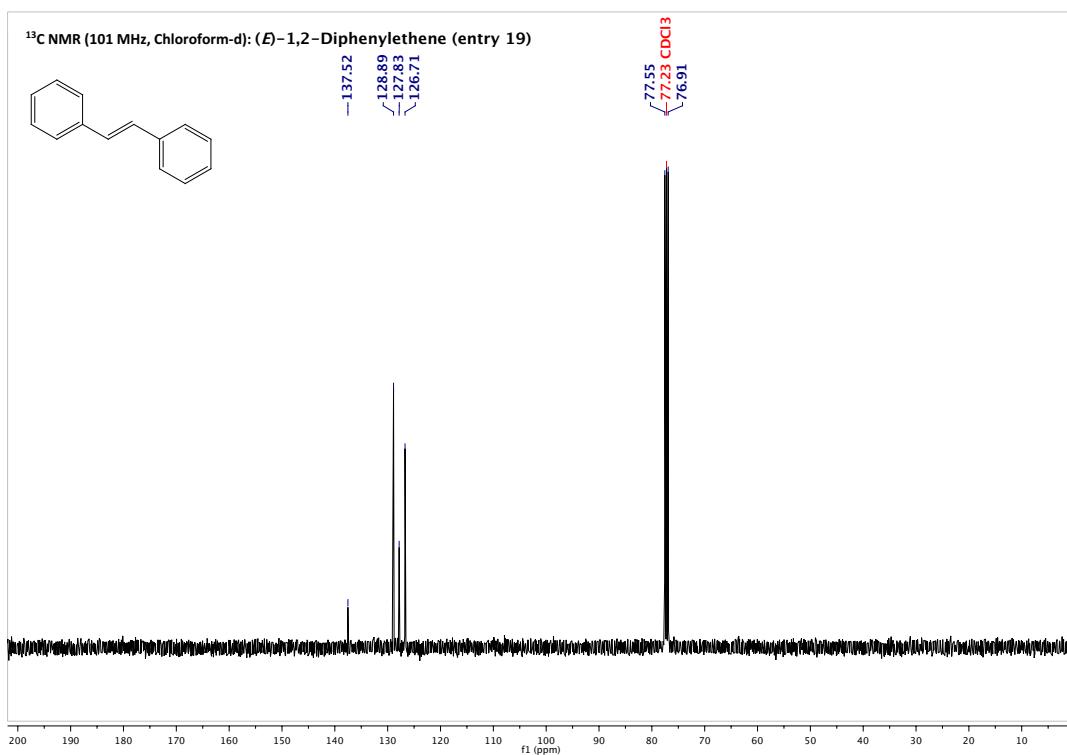
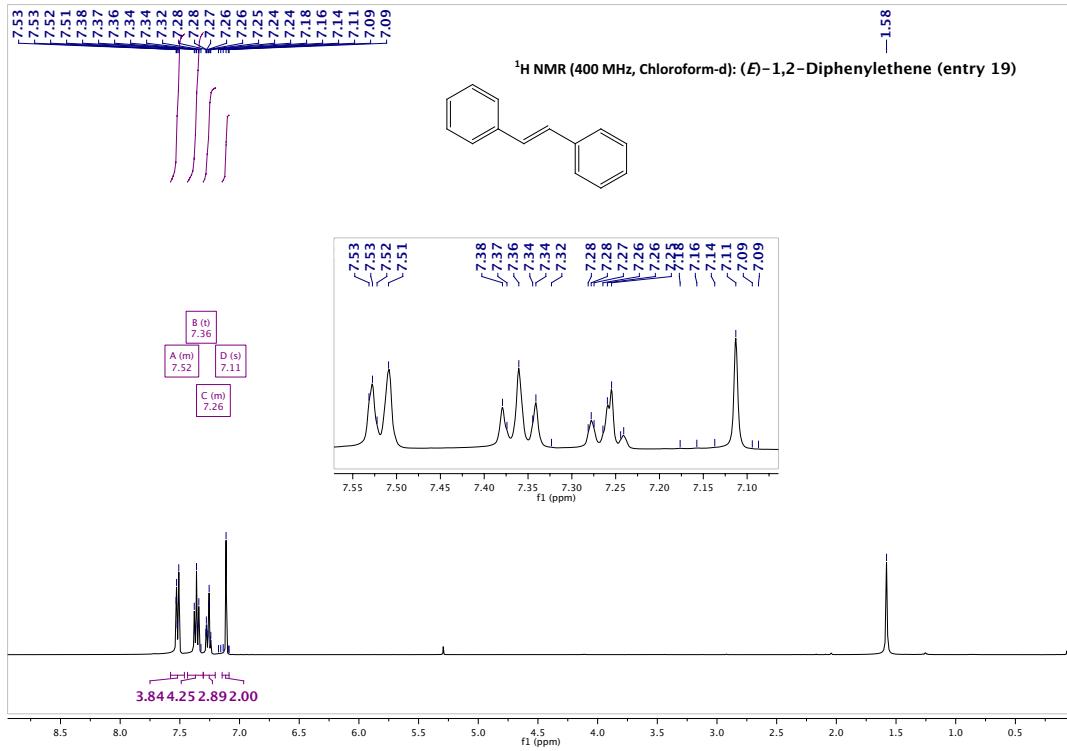
<sup>1</sup>H NMR (400 MHz, Chloroform-d): 4-(4-(Hydroxymethyl)phenoxy)benzonitrile

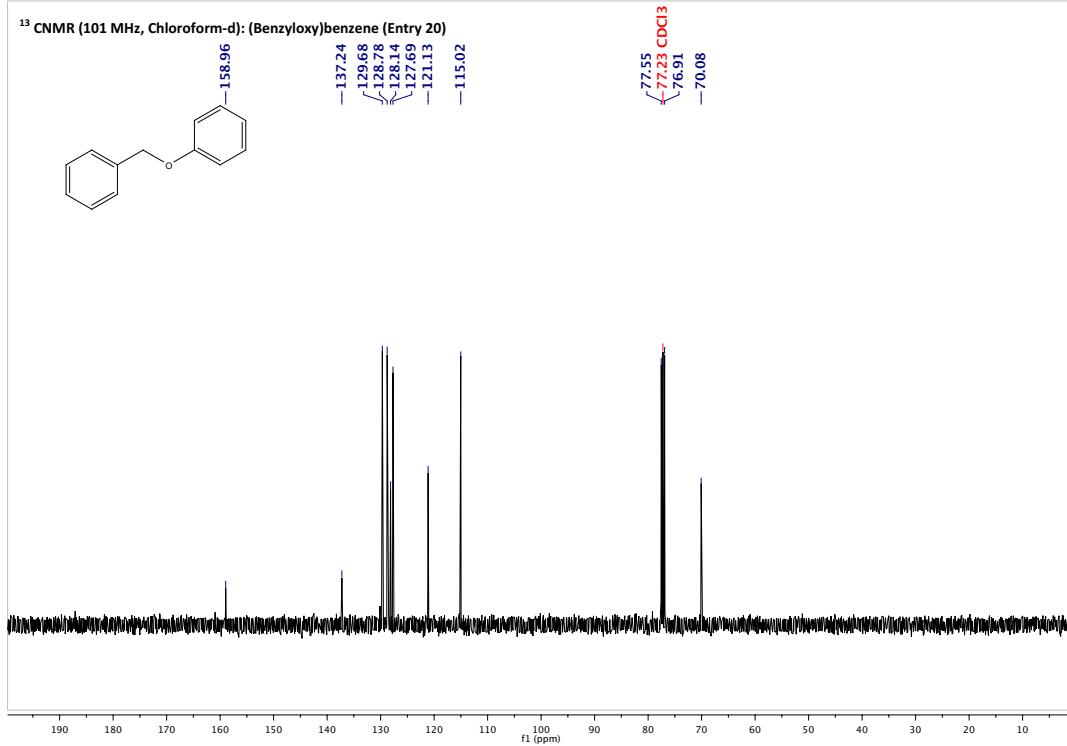
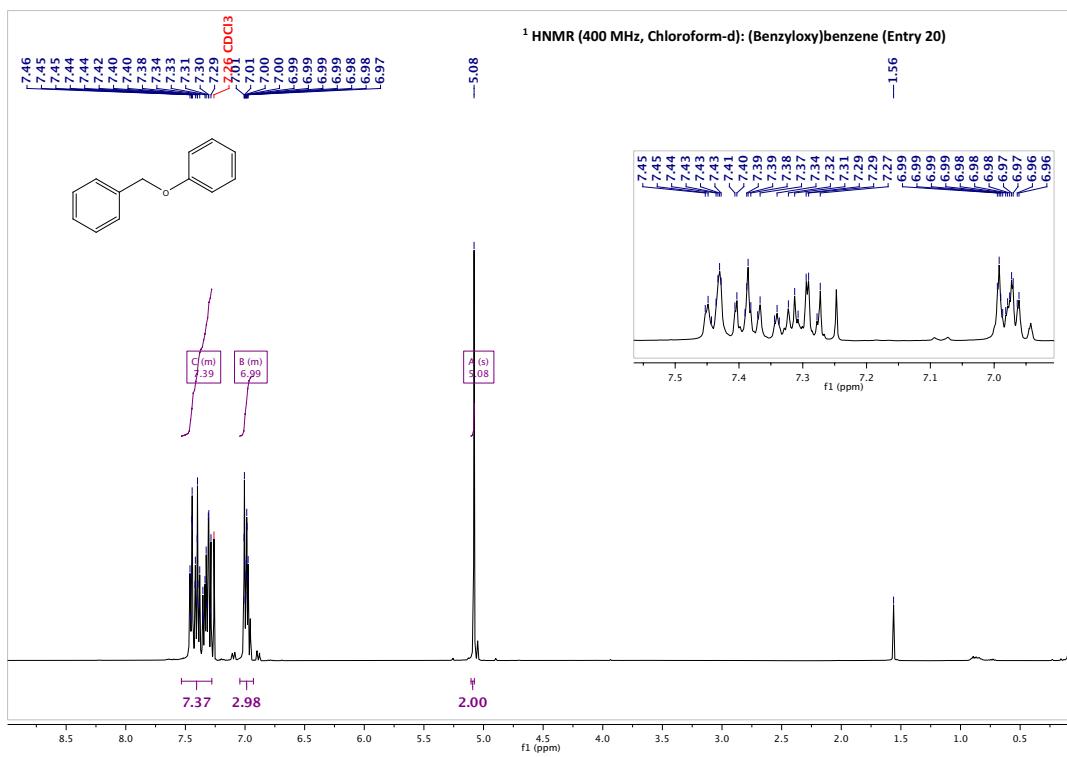


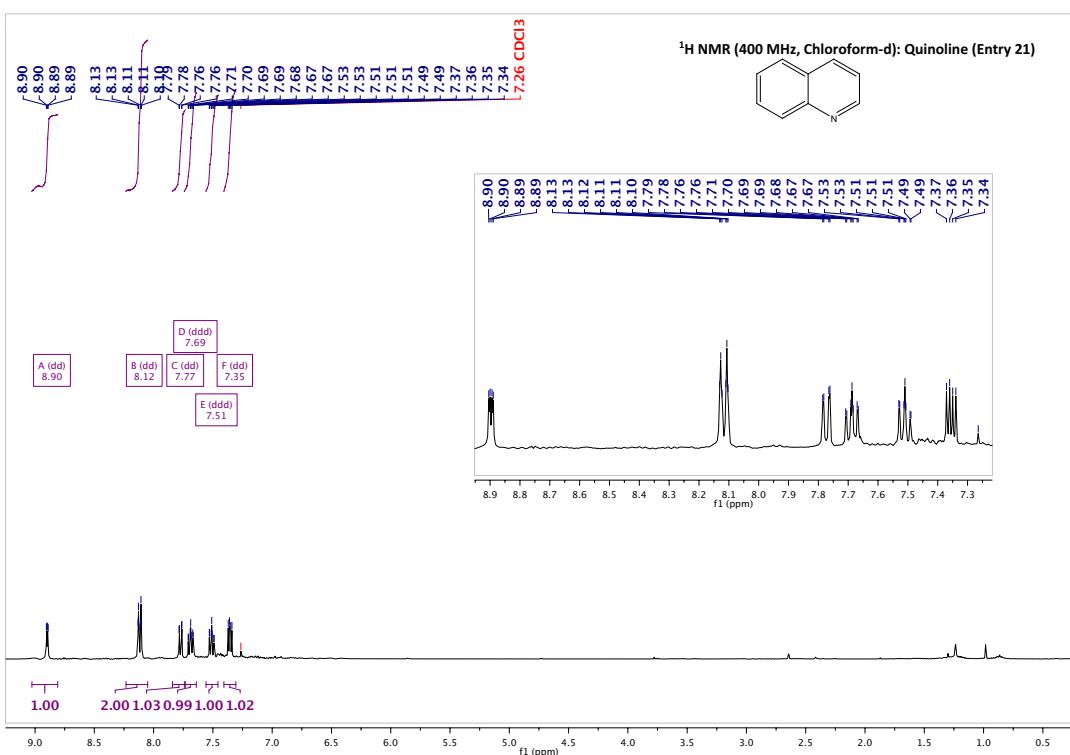
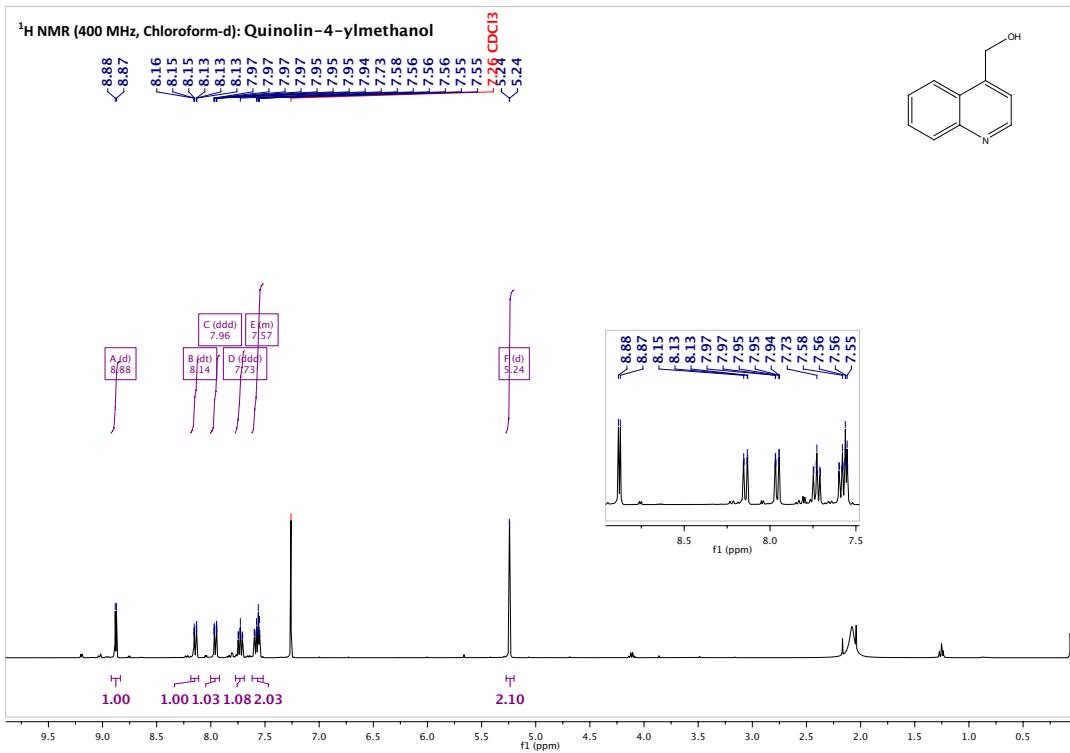
<sup>13</sup>C NMR (101 MHz, Chloroform-d): 4-(4-(hydroxymethyl)phenoxy)benzonitrile

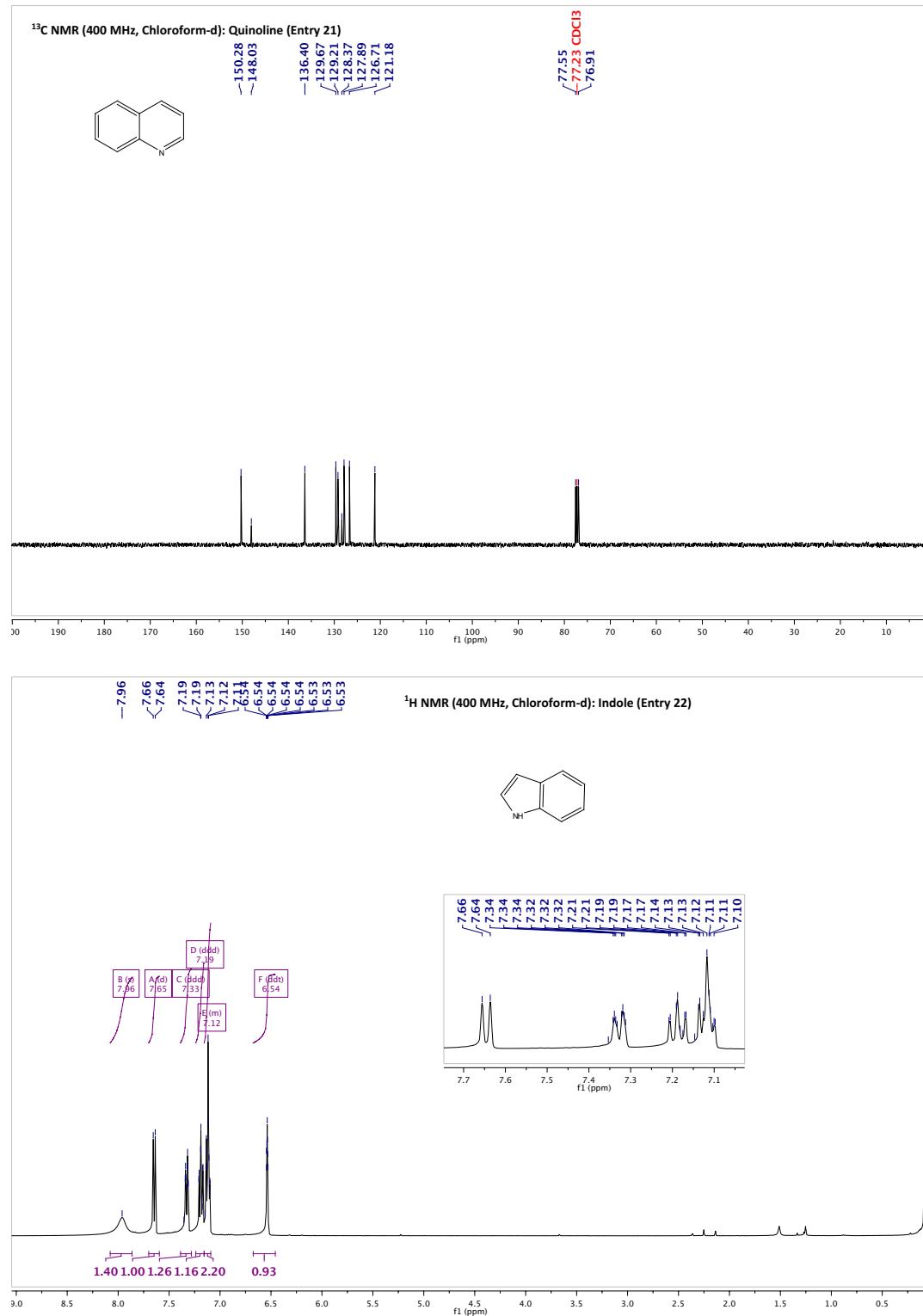


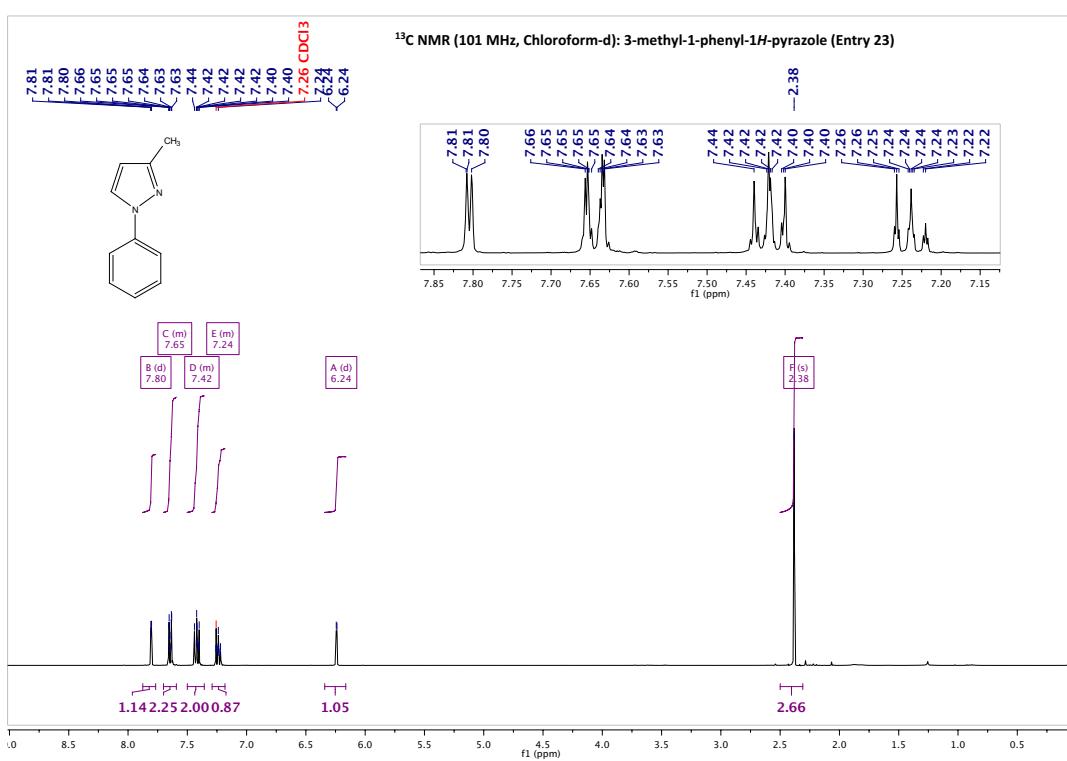
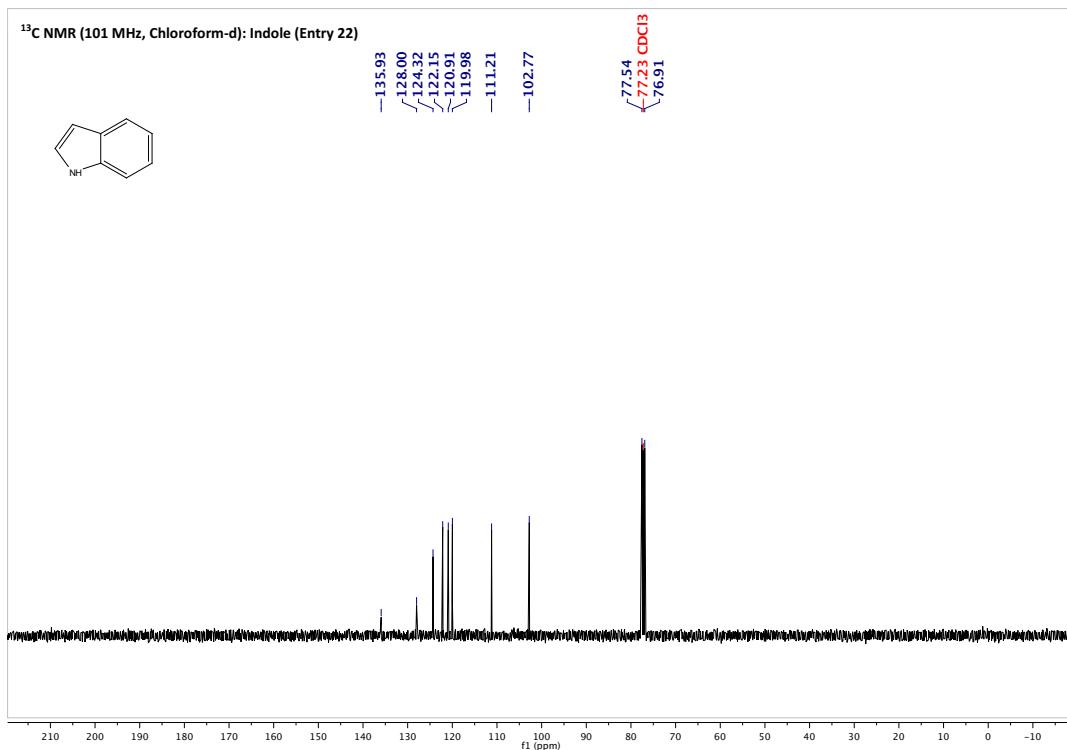


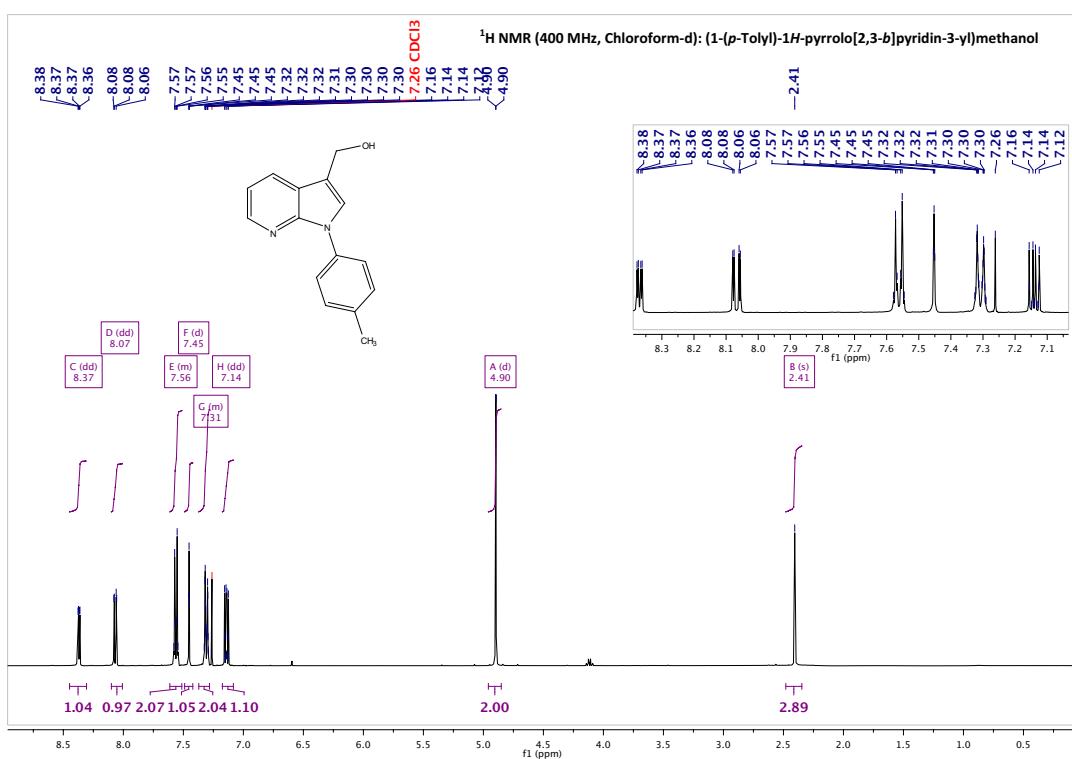
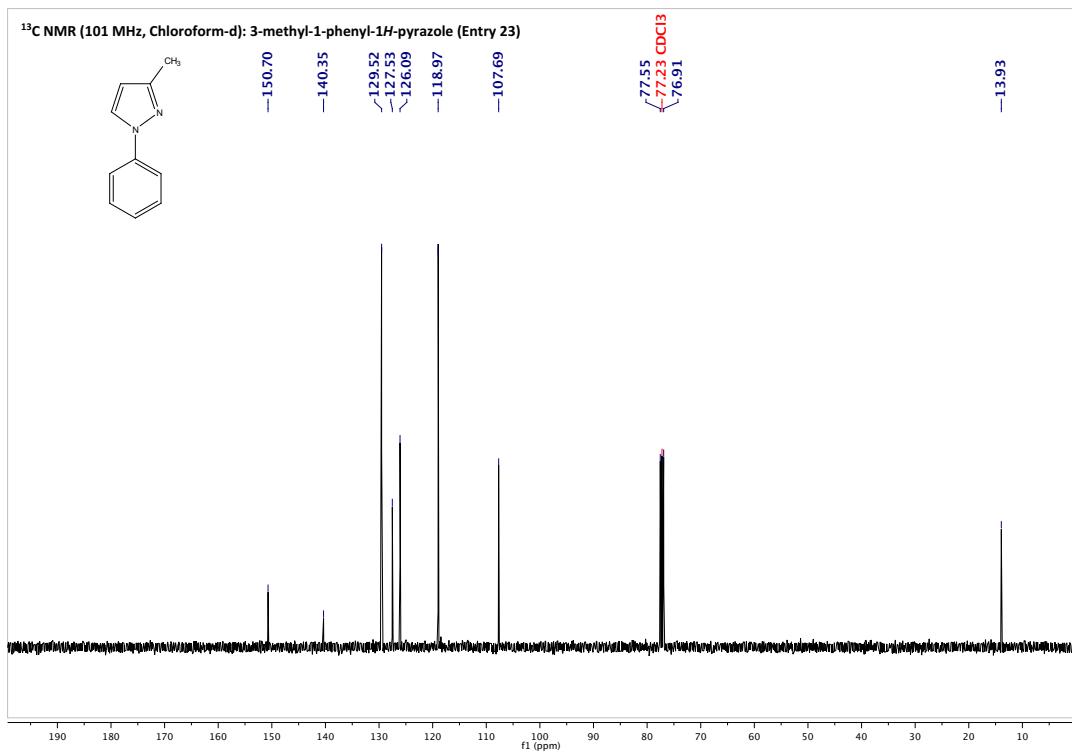


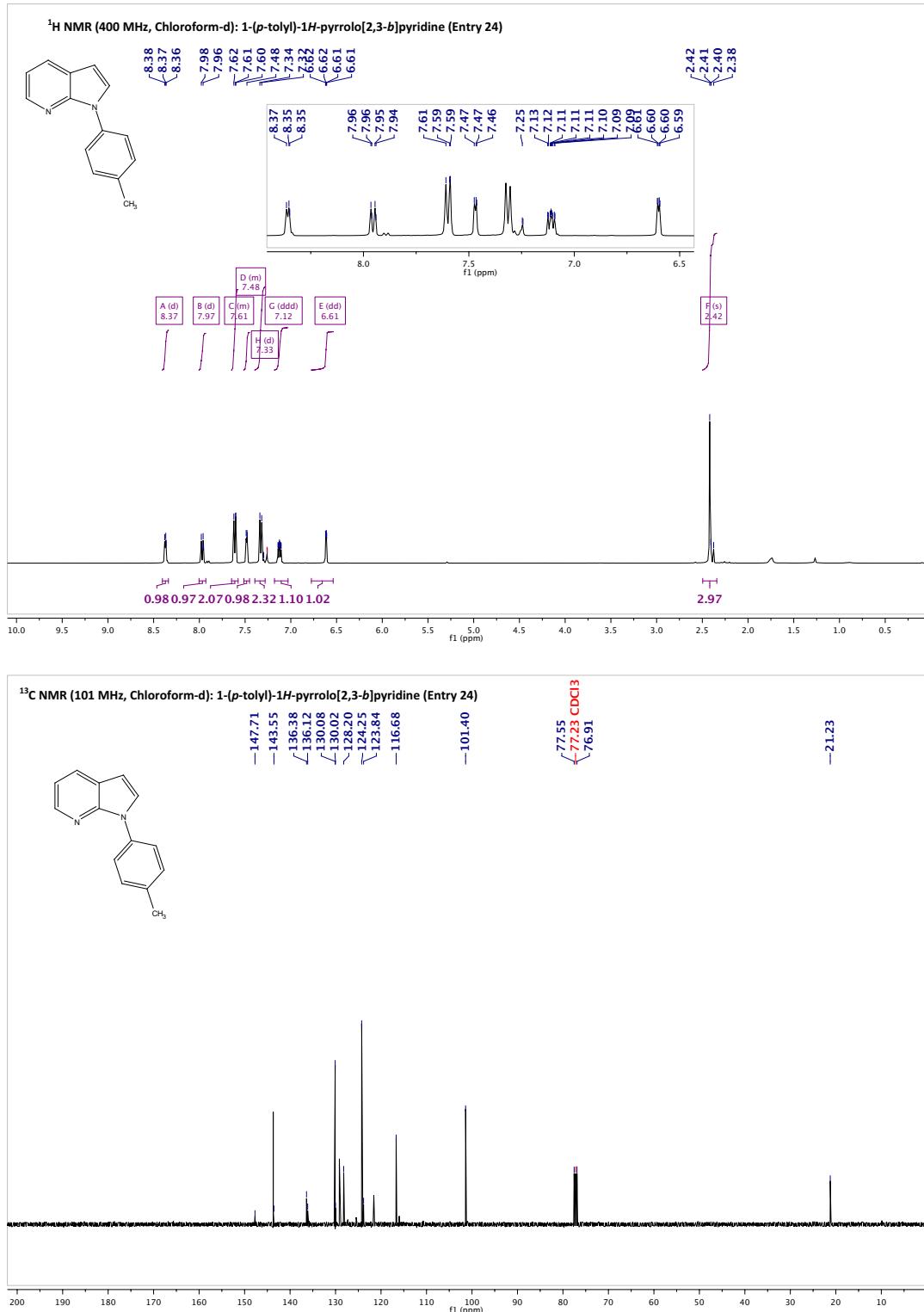


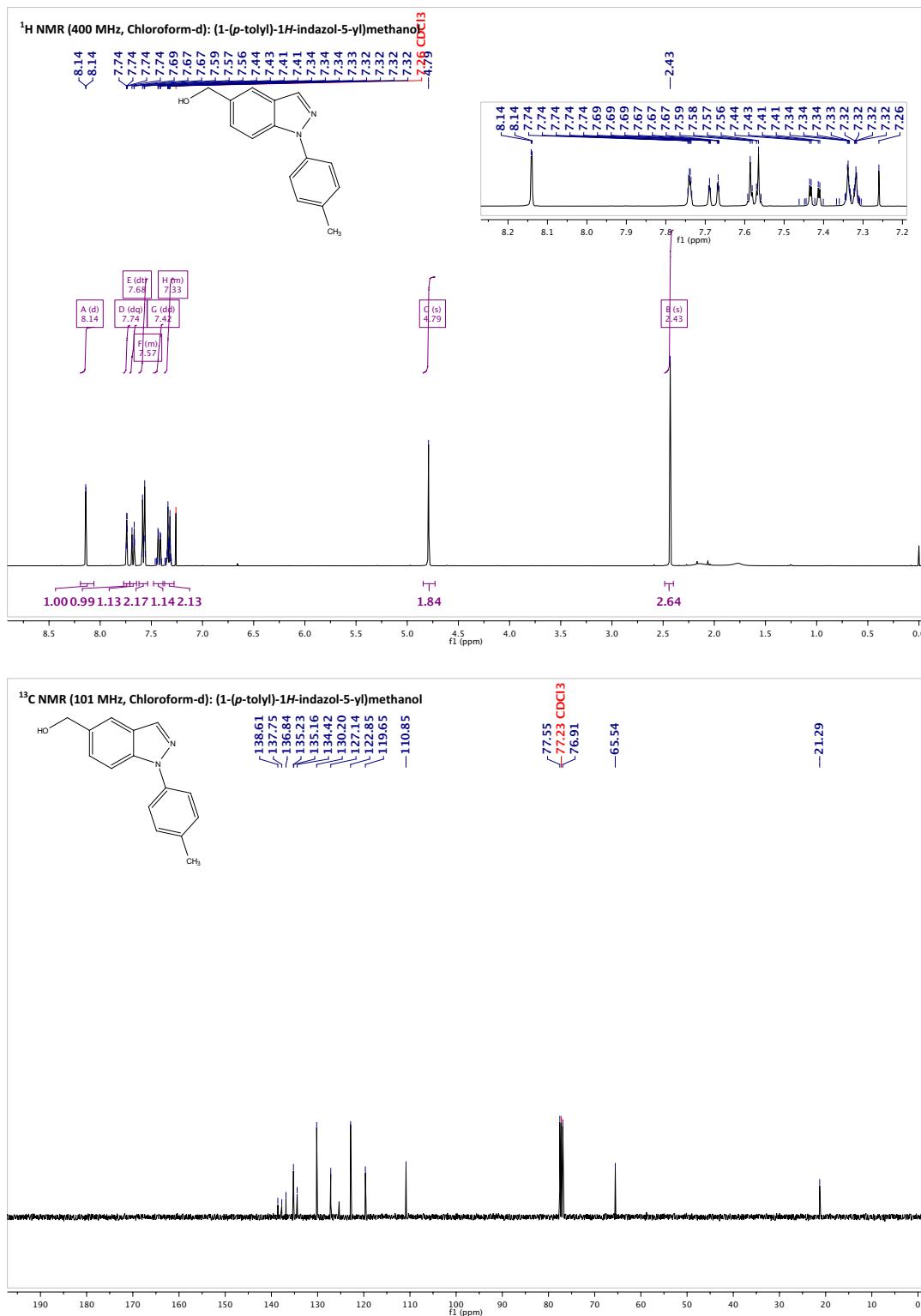


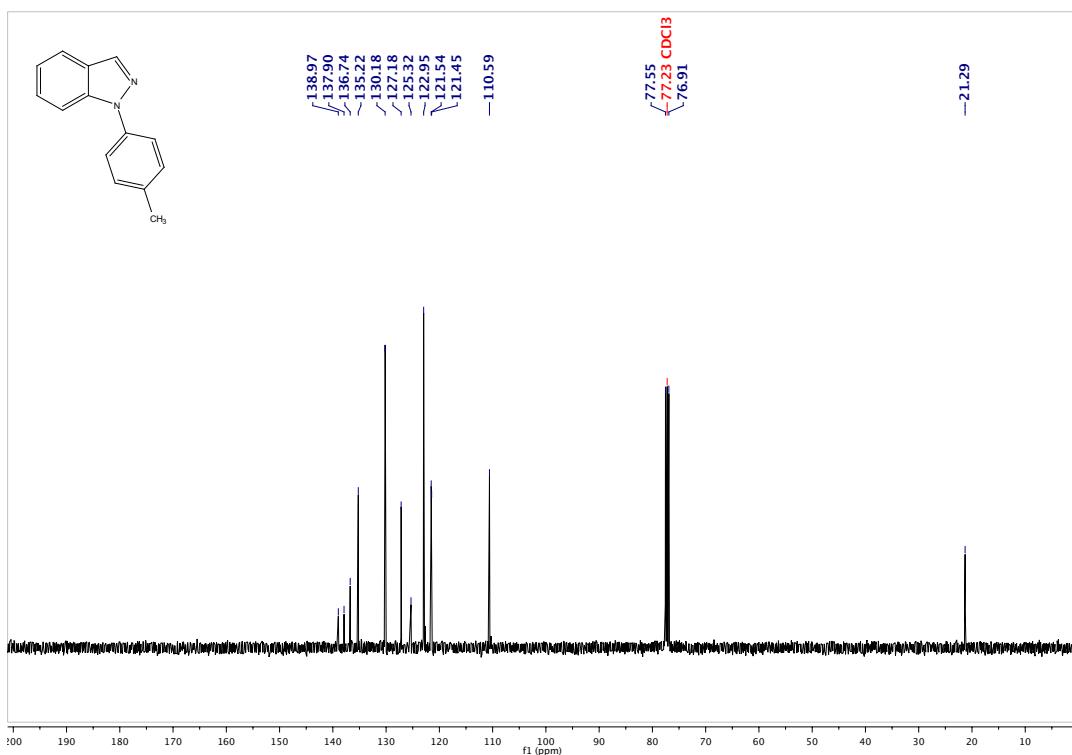
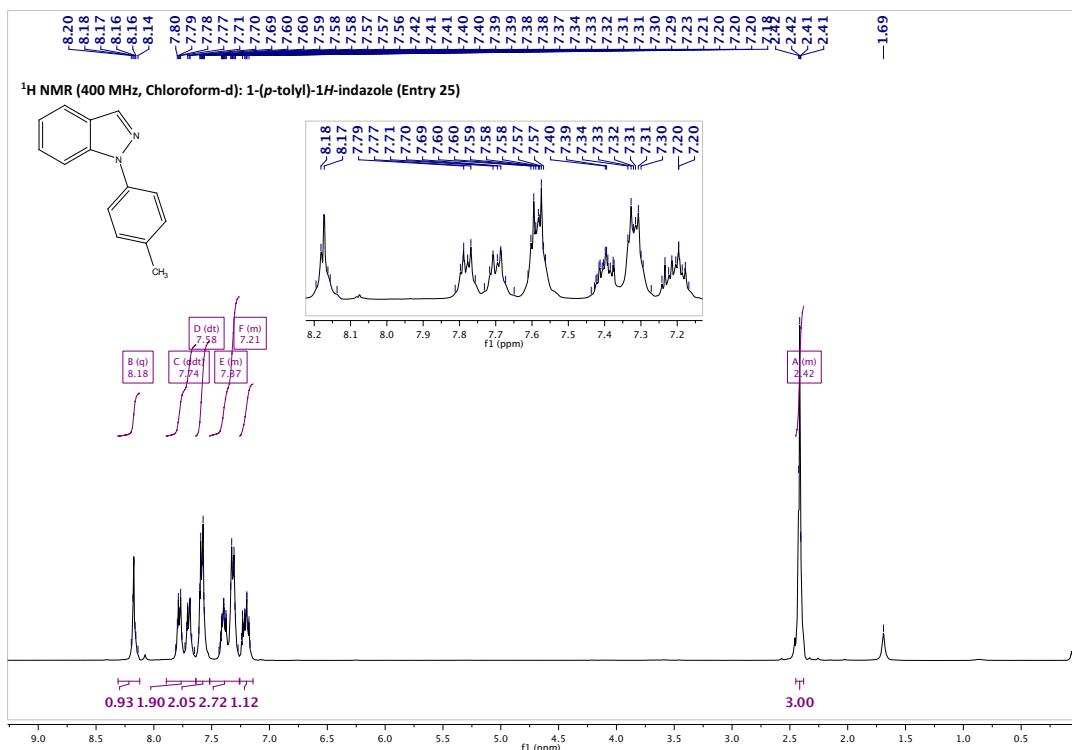


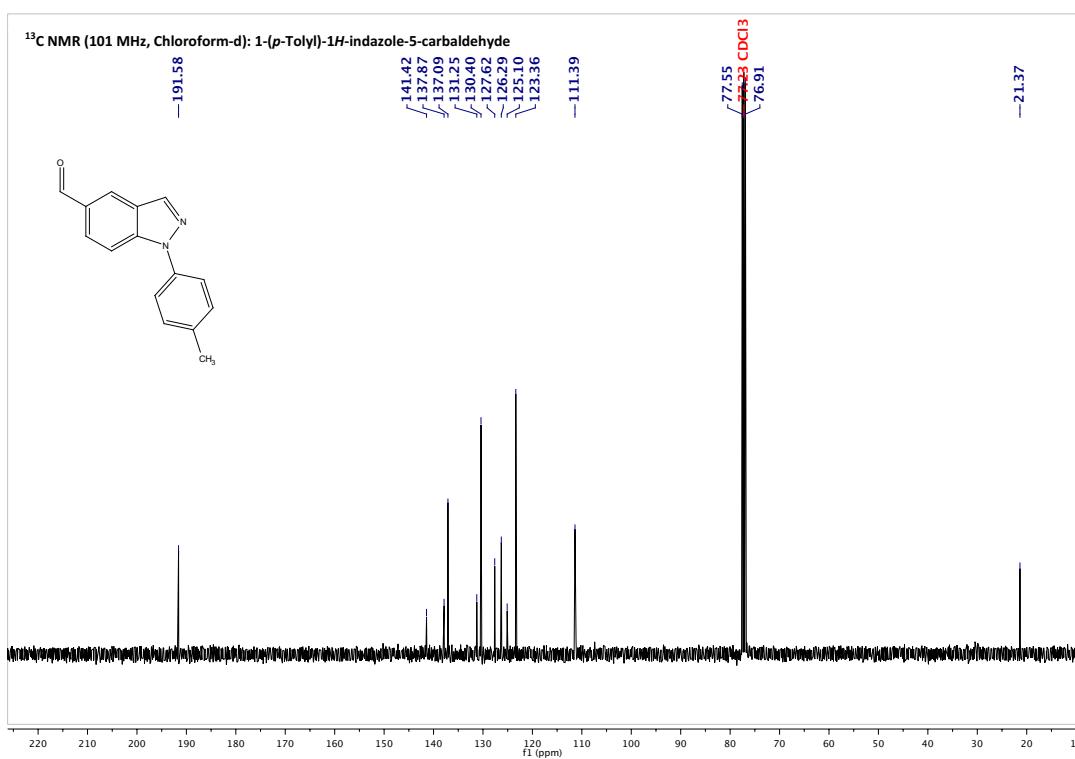
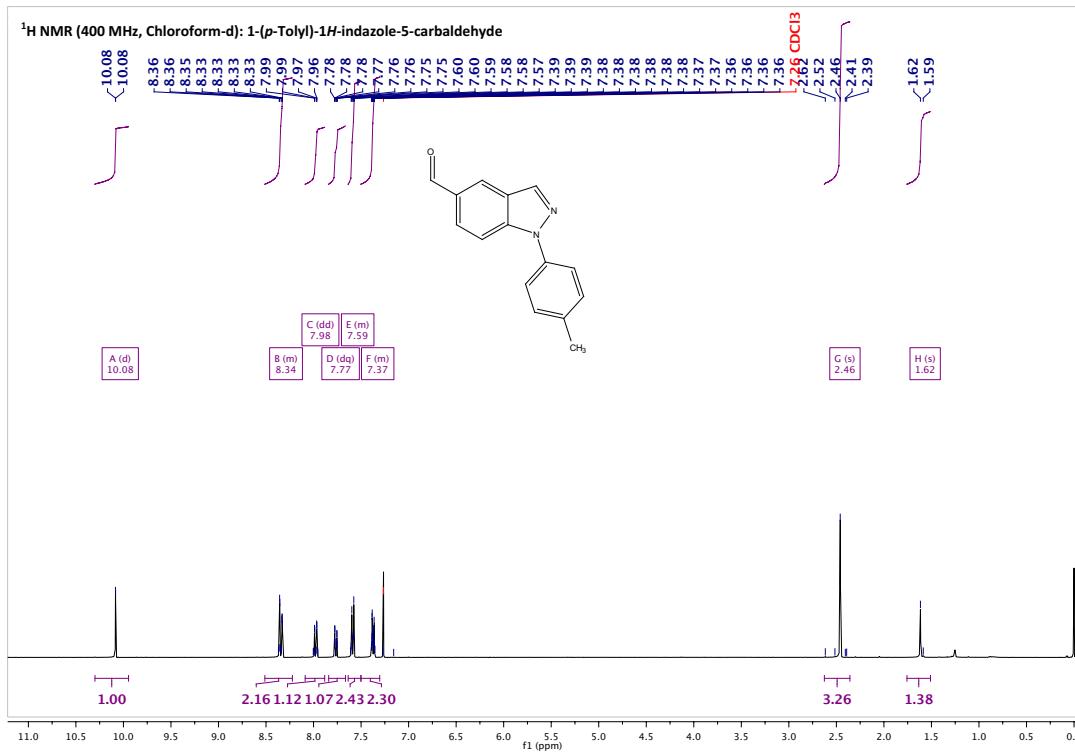


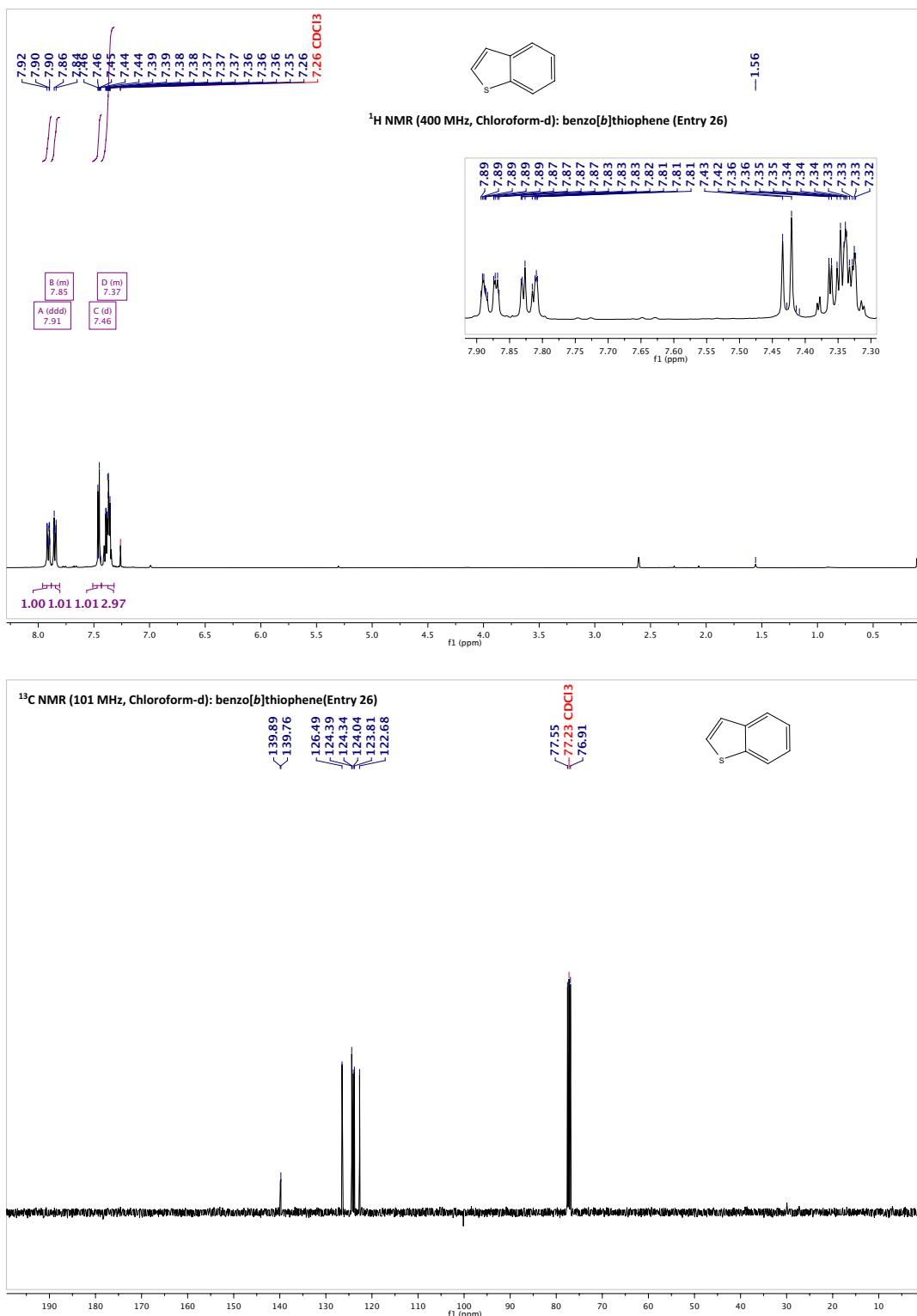


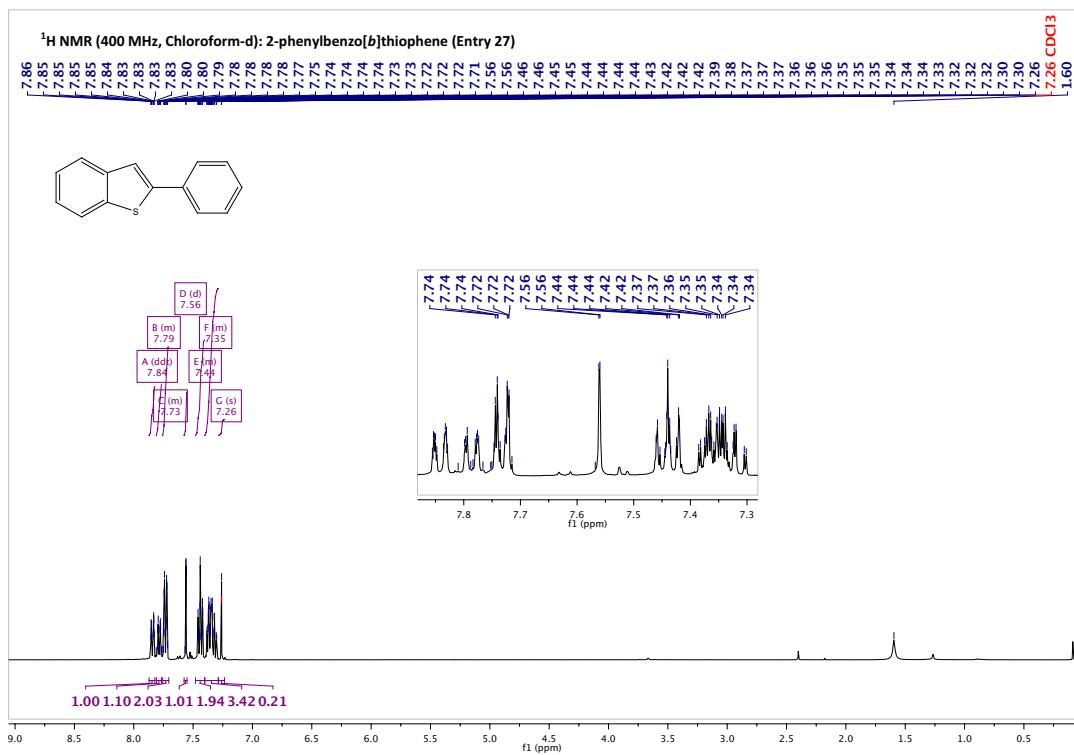
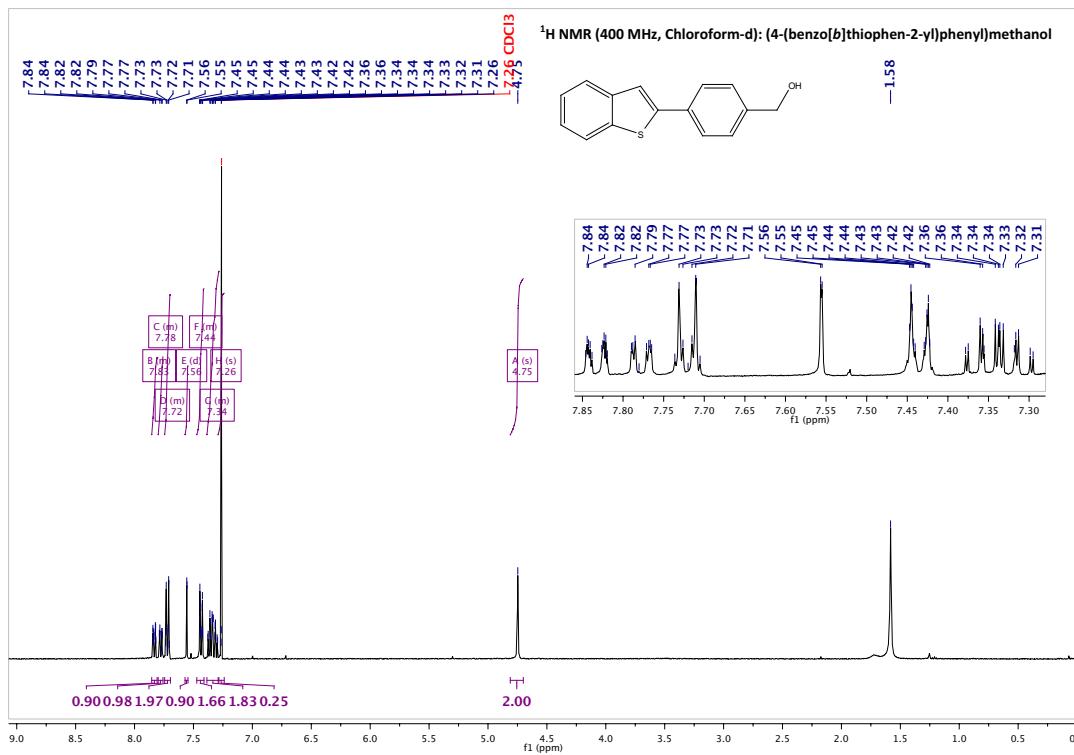


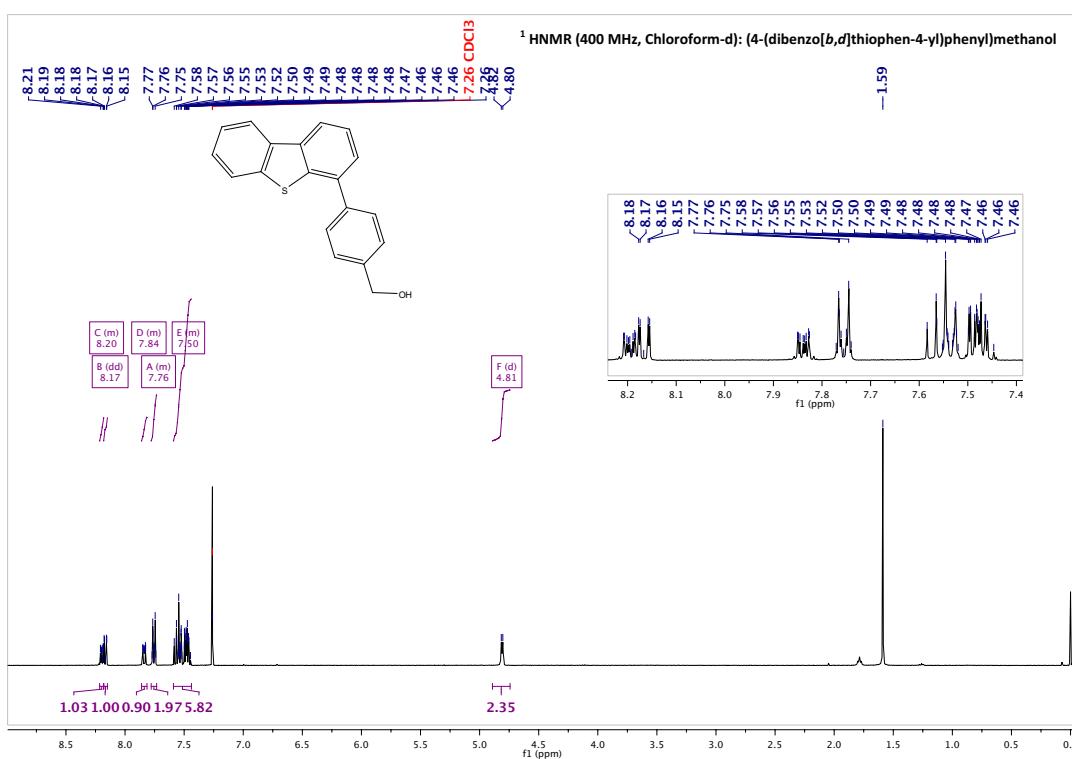
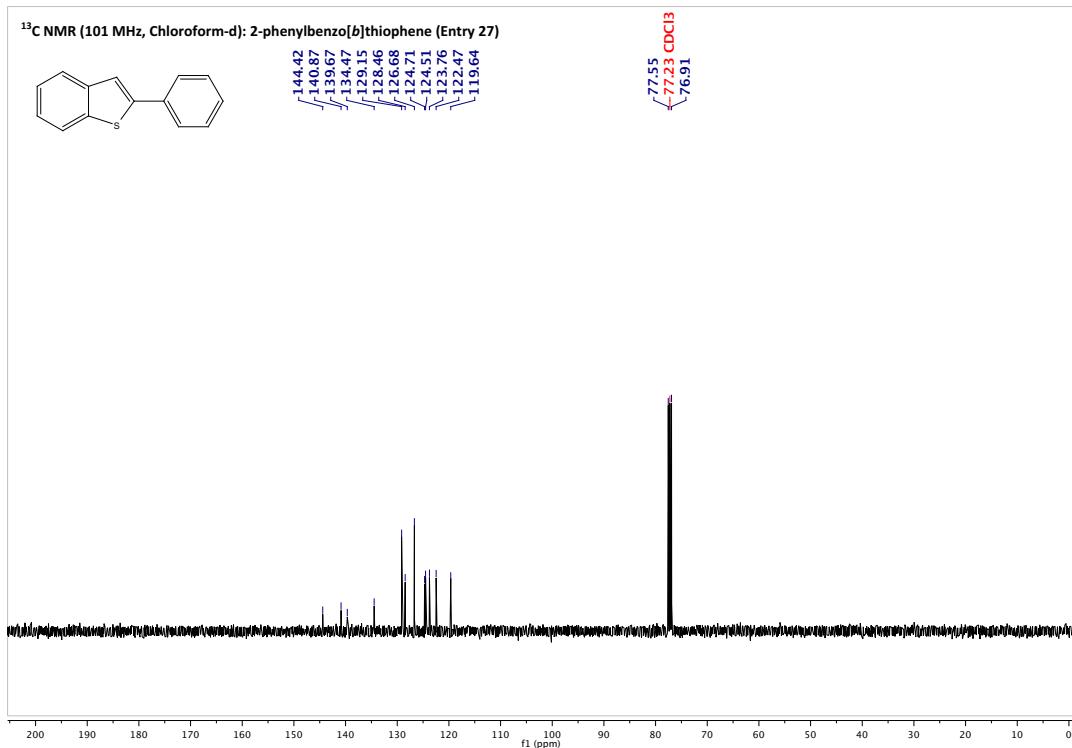


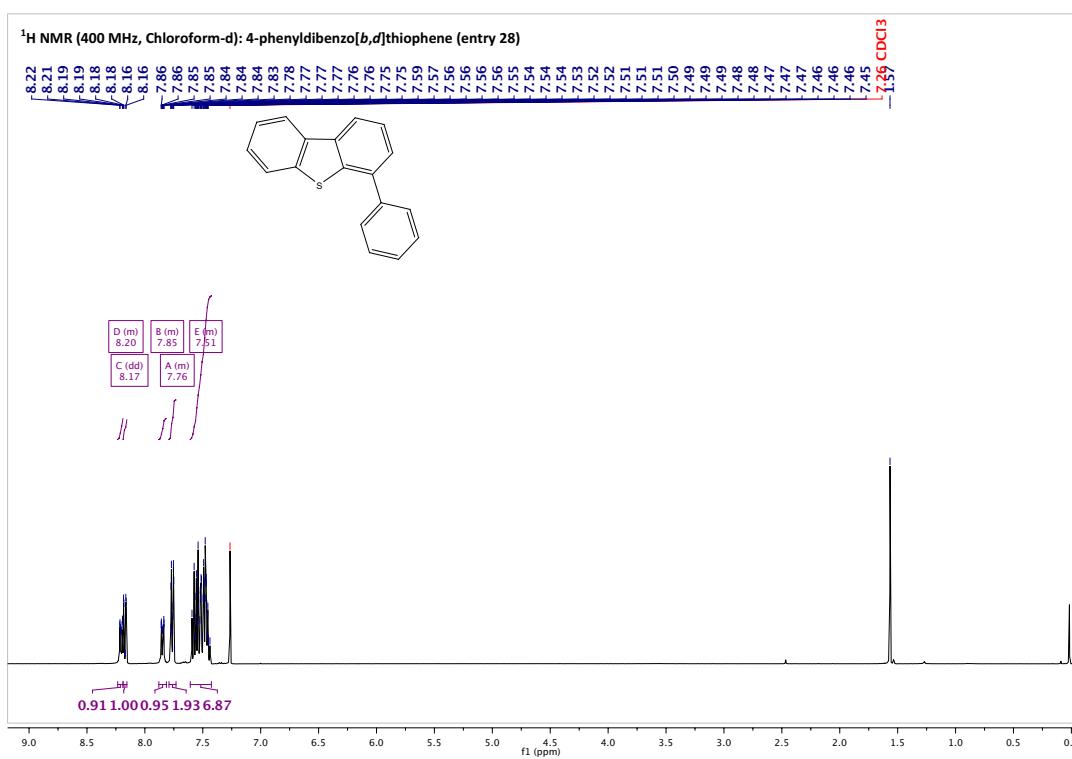
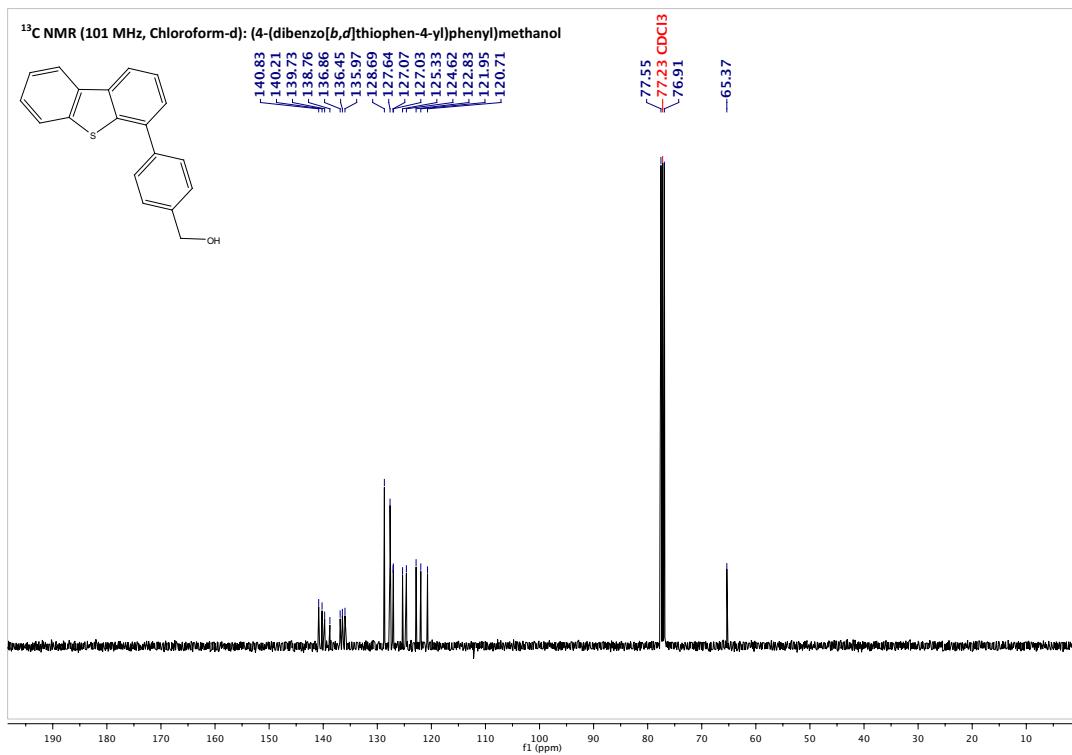


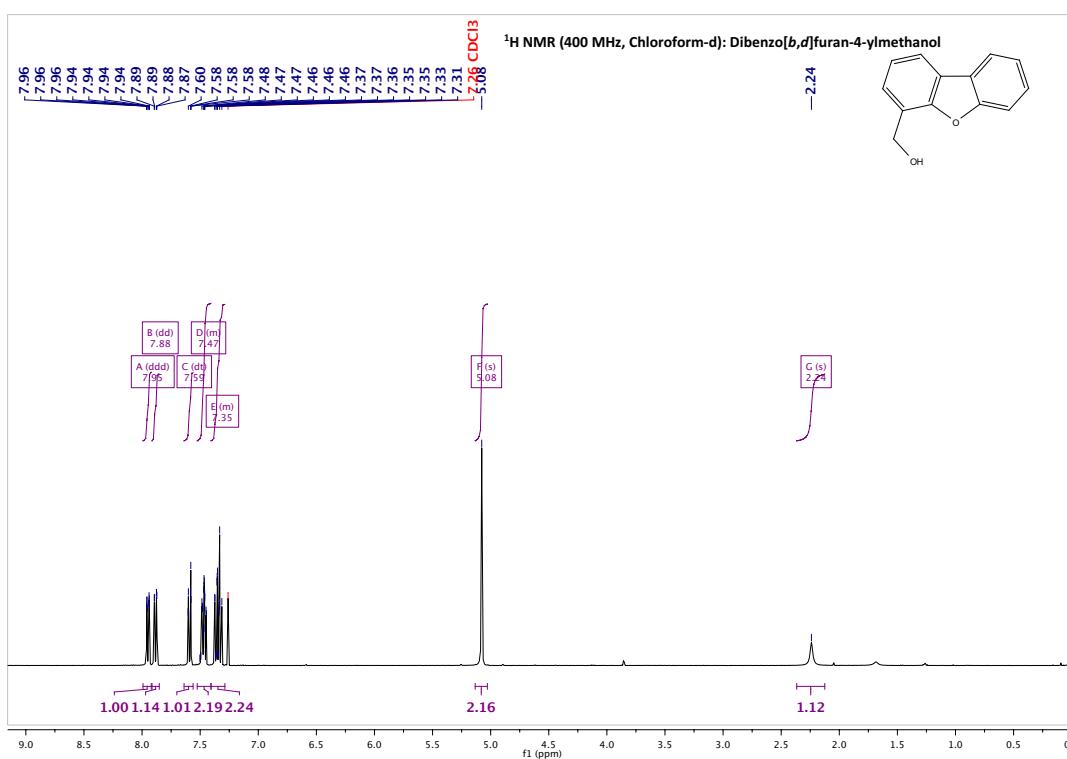
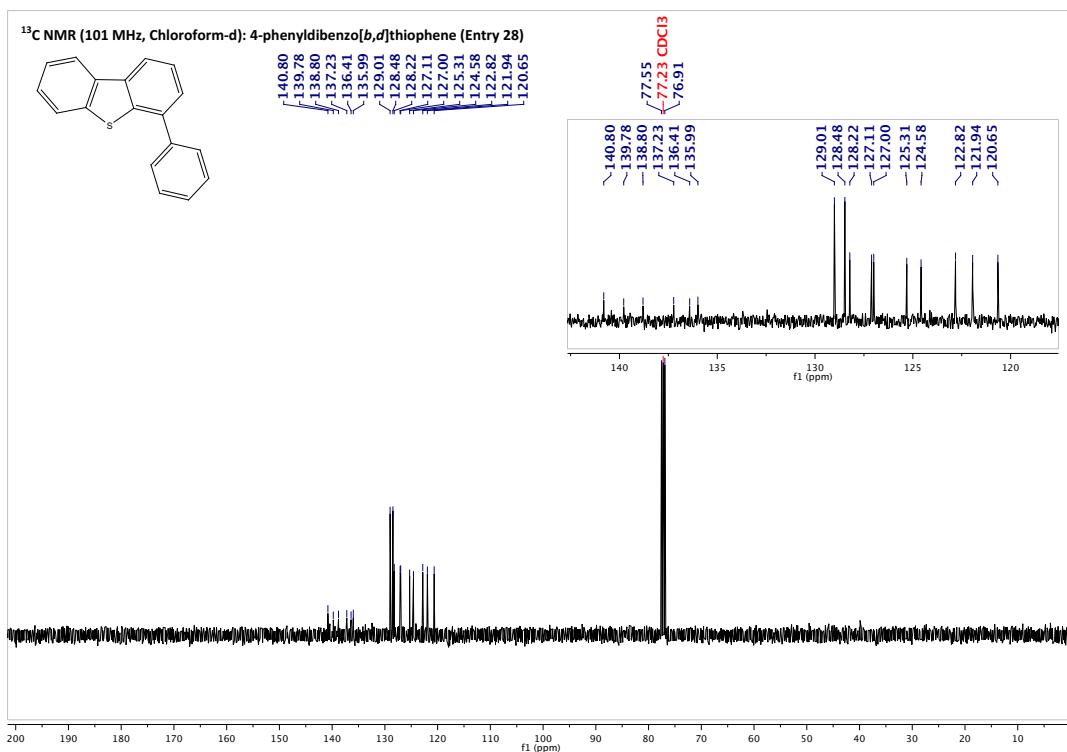


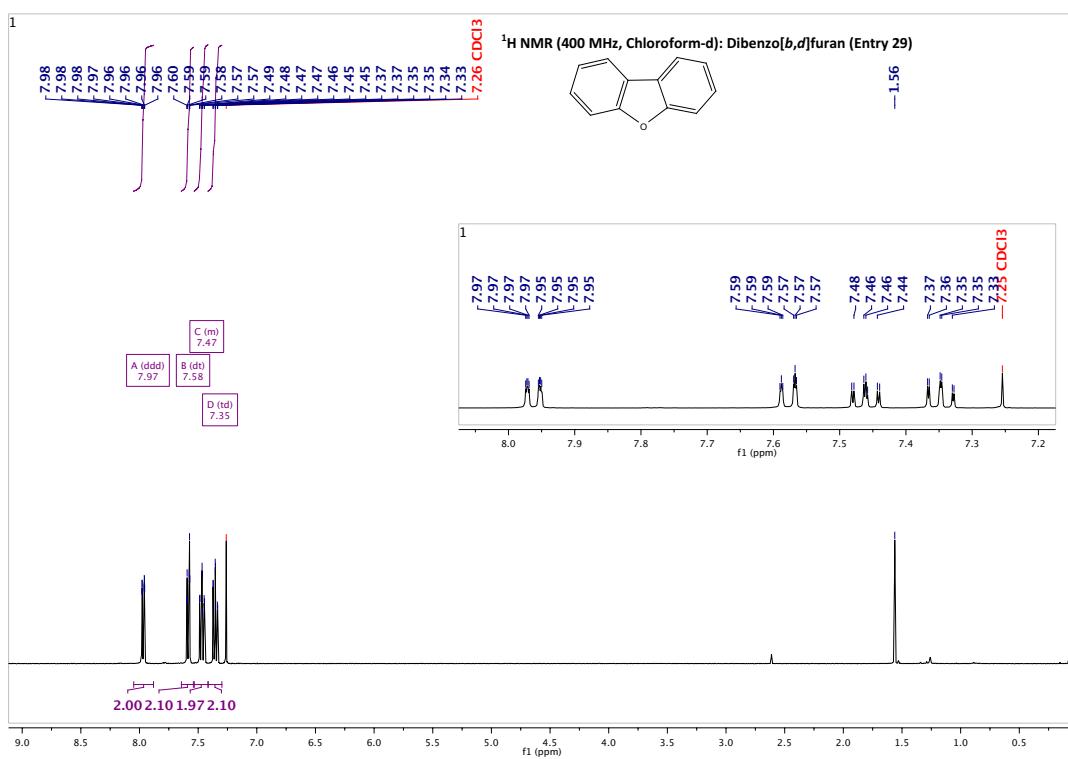
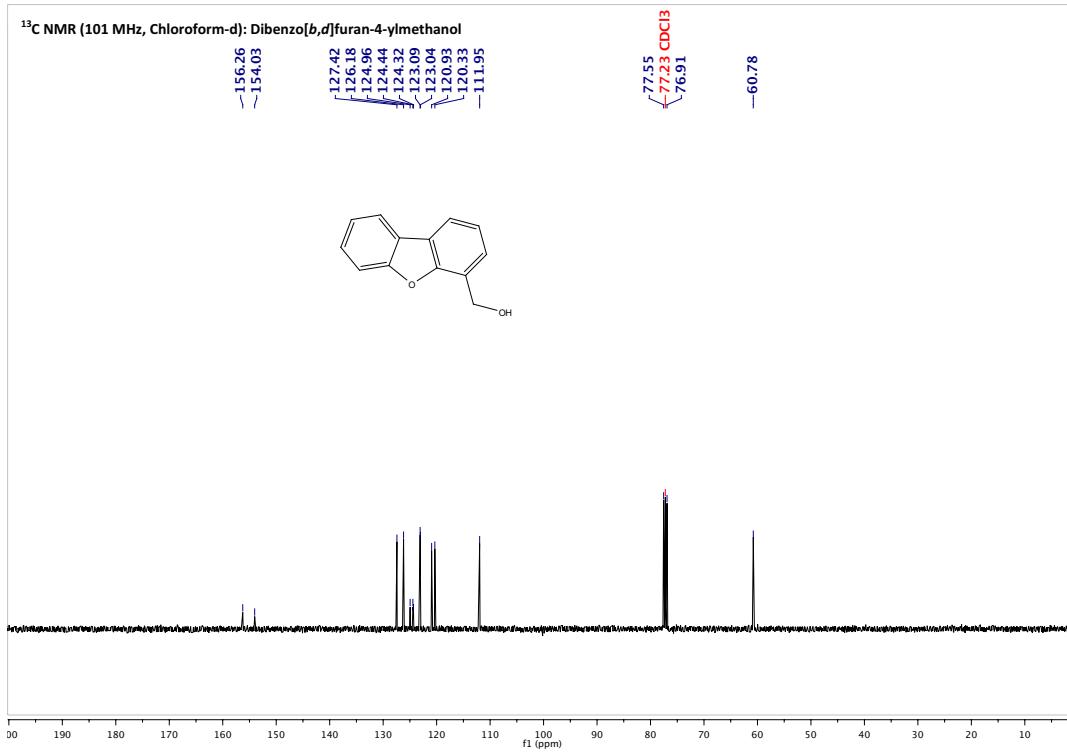


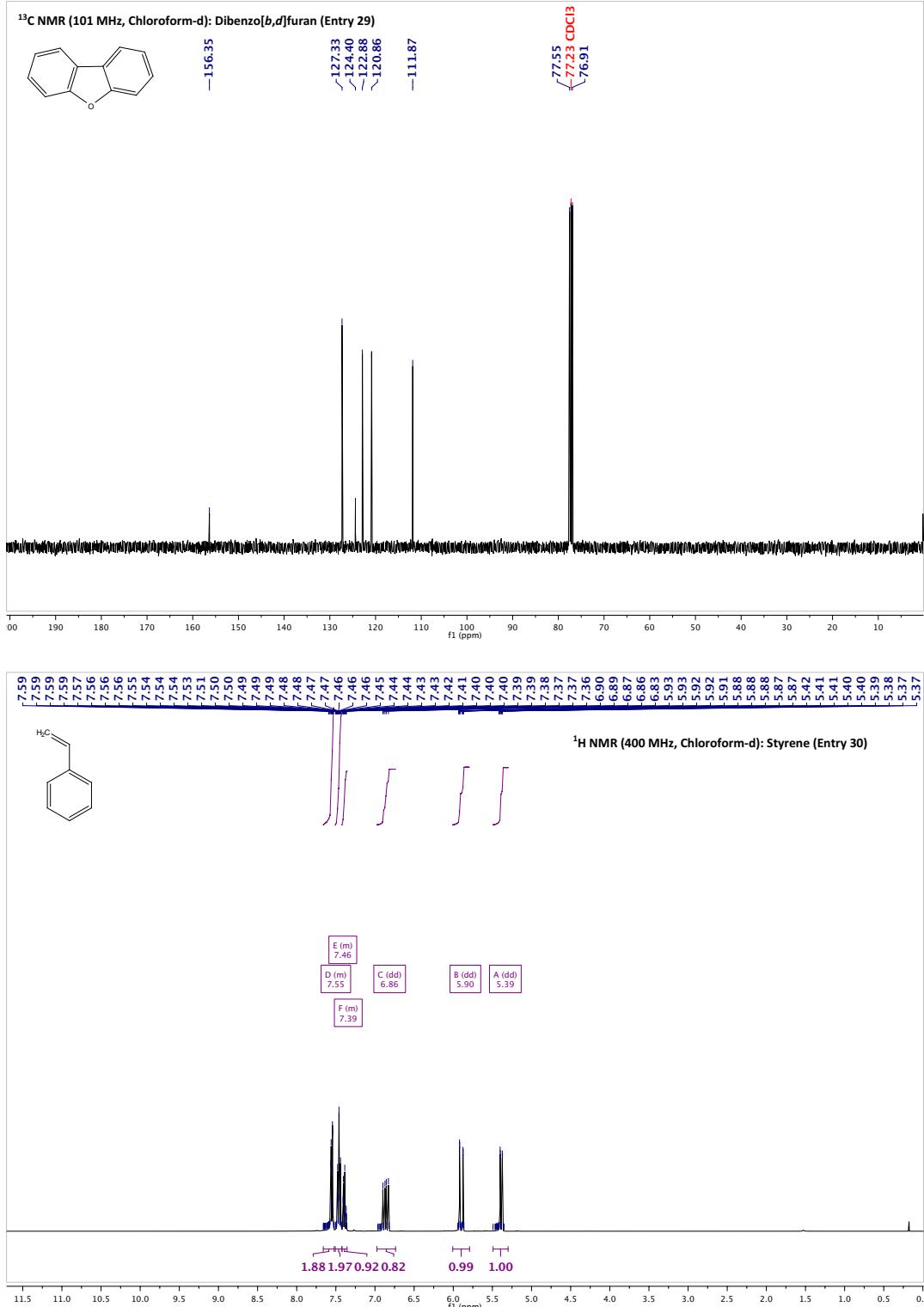


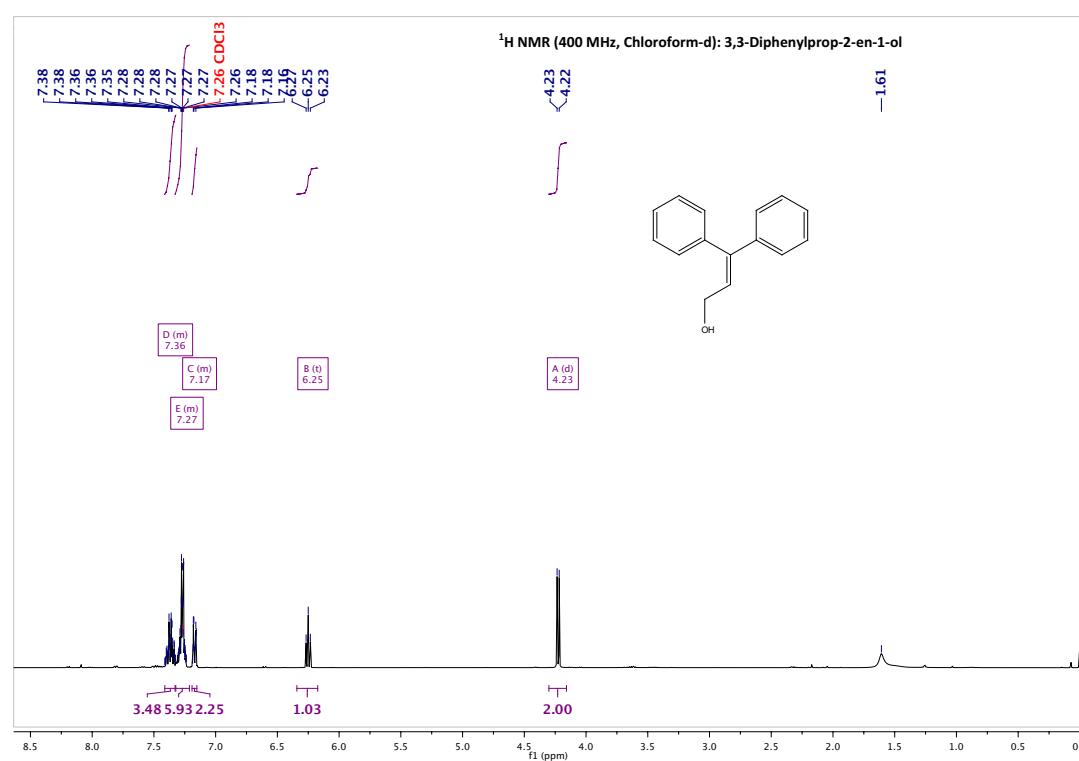
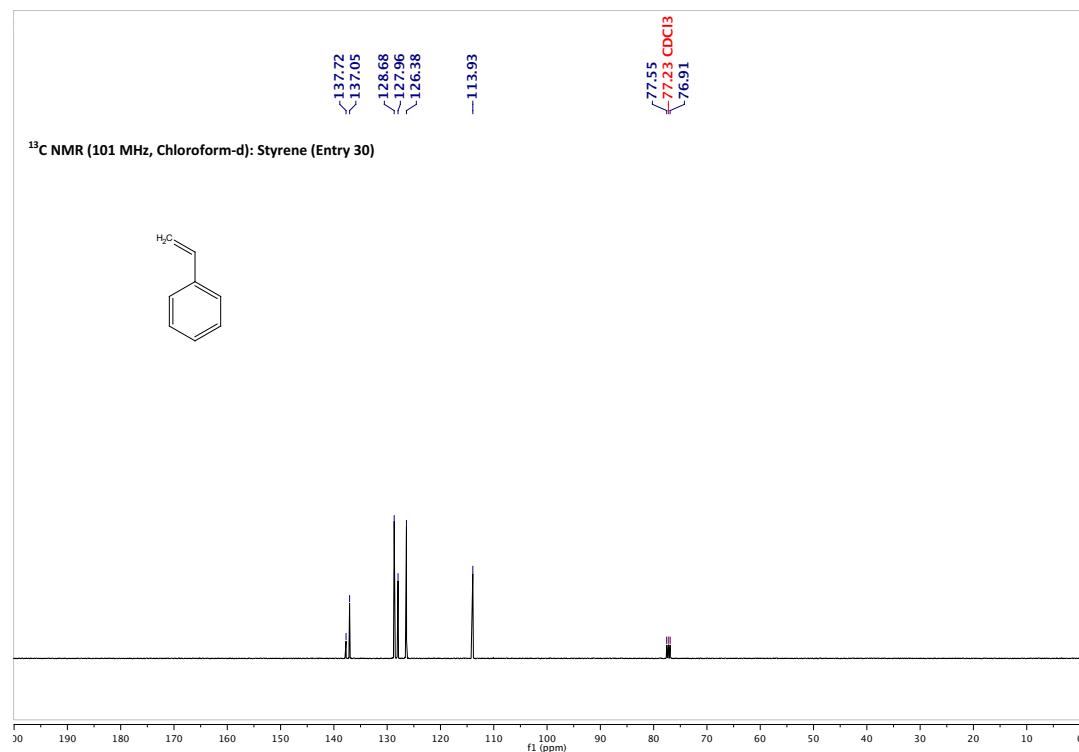


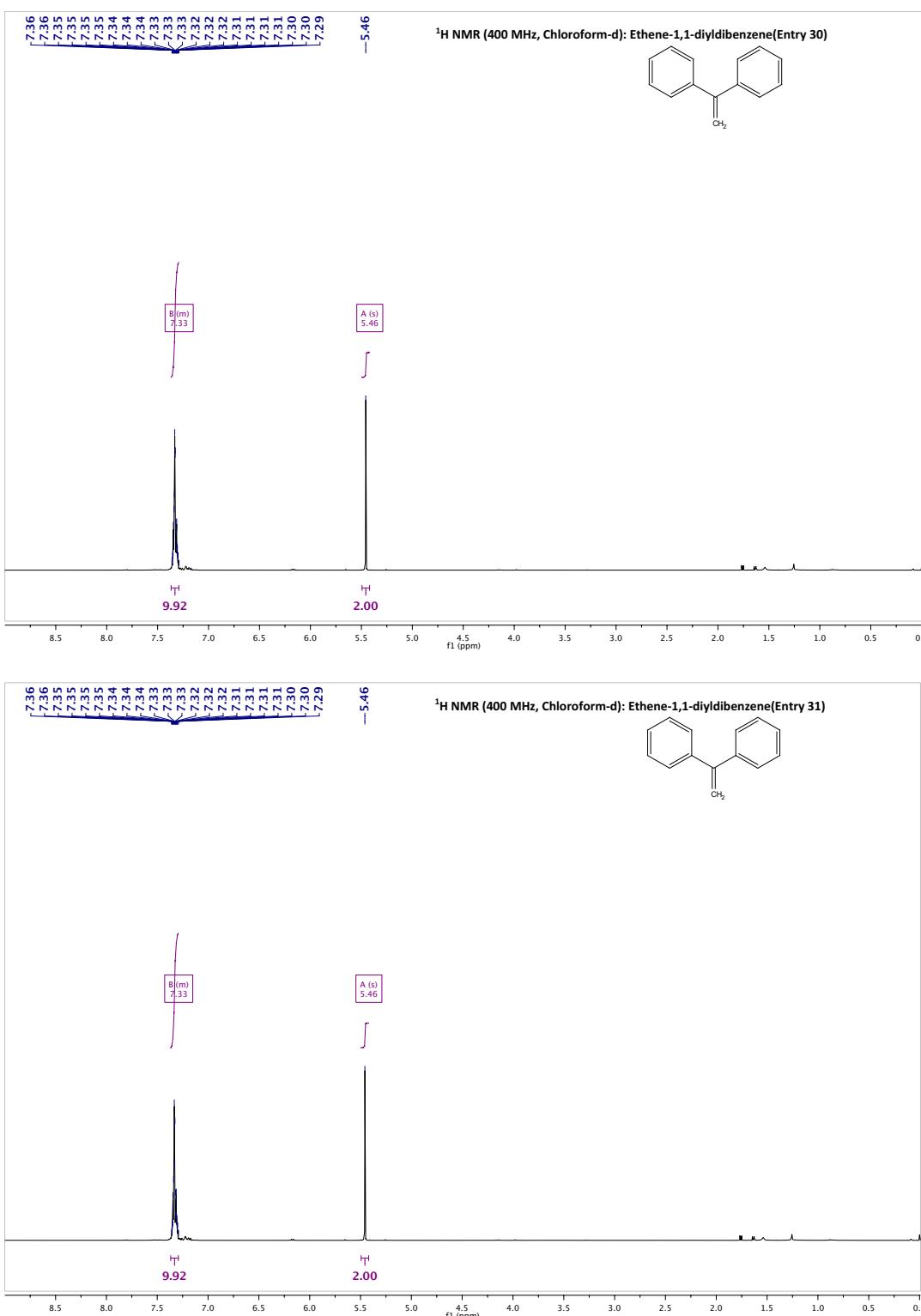


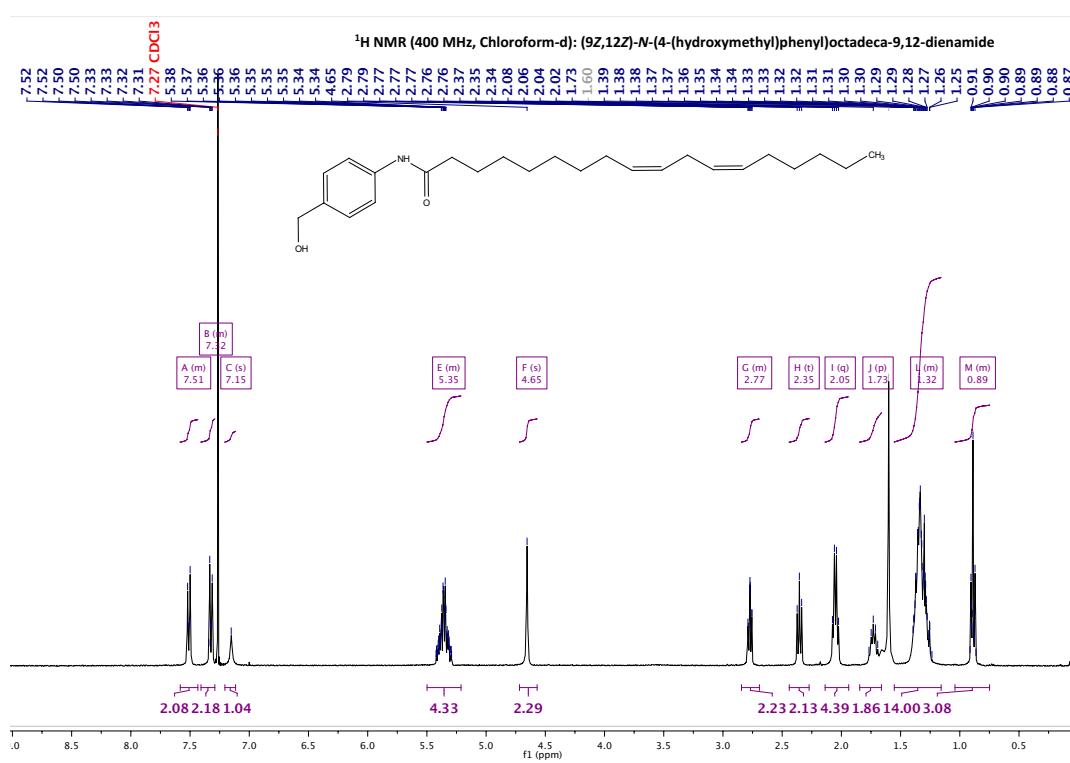
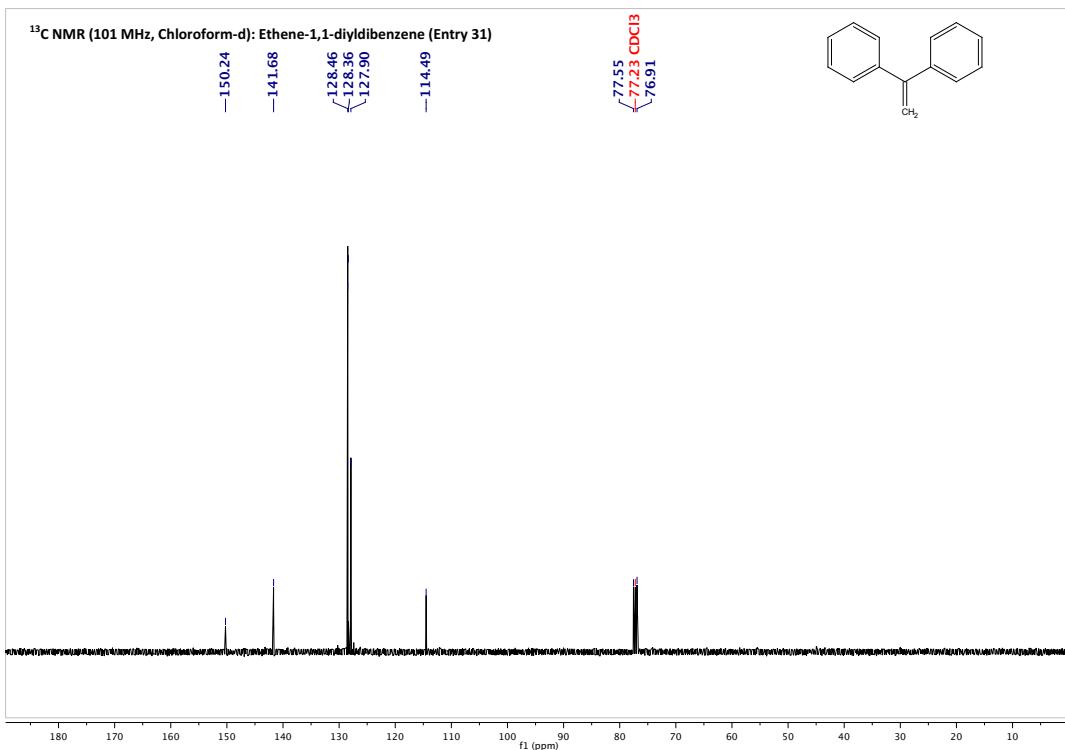


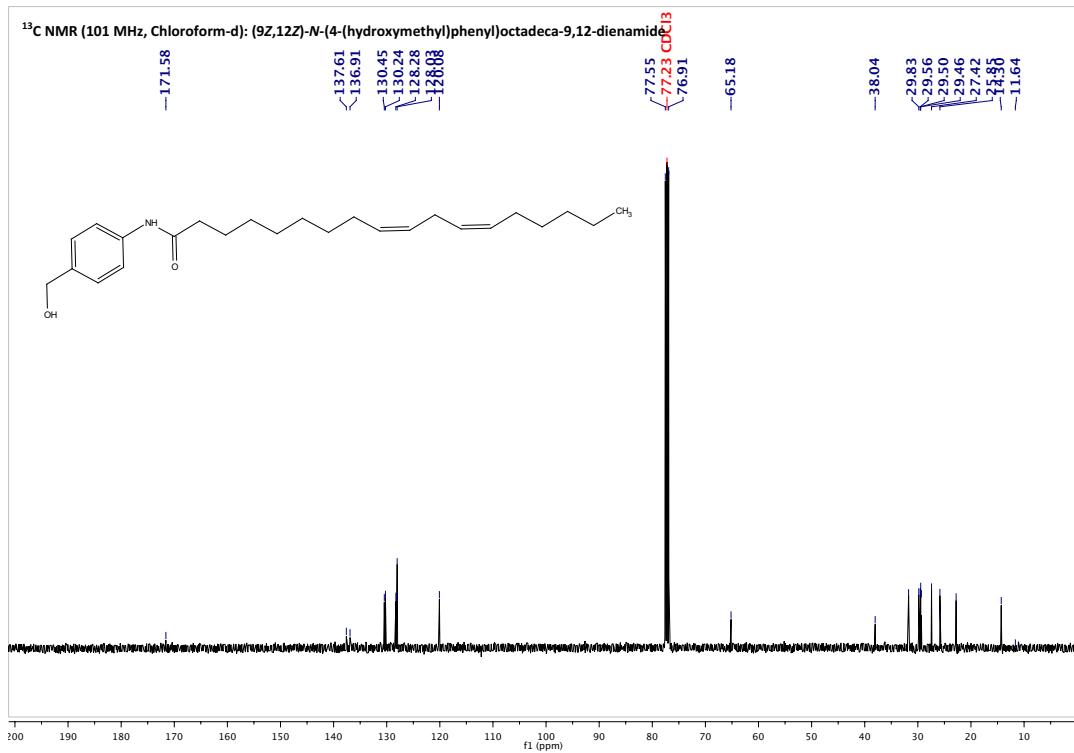












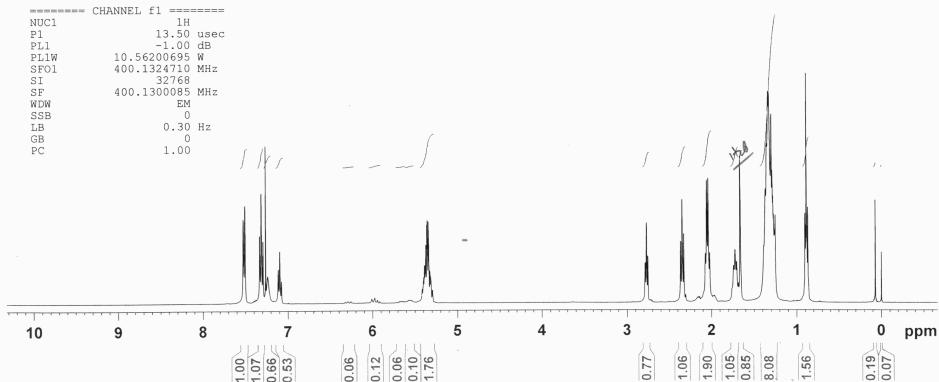
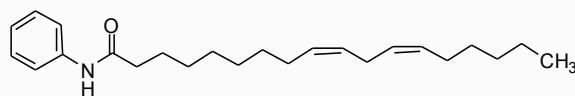
<sup>1</sup>H NMR (400 MHz, Chloroform-d): (9Z,12Z)-N-phenyloctadeca-9,12-dienamide (Entry 34)

DM-AM2-ODF-164-1H

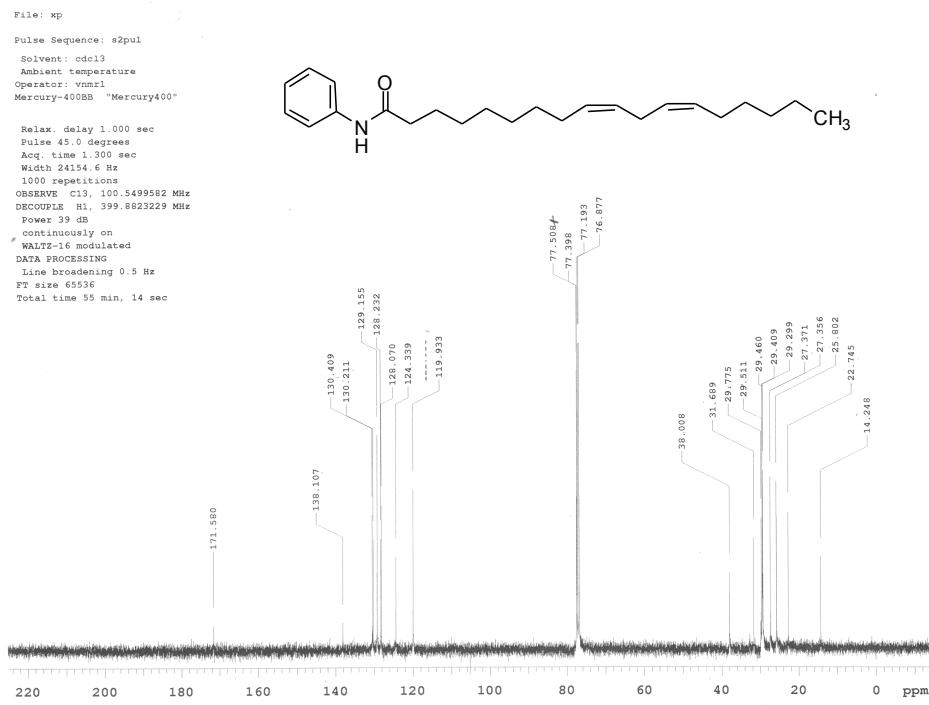
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PROCNO 1
Date 20120605
Time 10.35
INSTRUM spect
PROBHD 5 mm PARCO BBR
TD 65560
SOLVENT z30
NS 9
DS 0
SWH 8802.187 Hz
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AQ 3.7806550 sec
RG 16
DW 56.800 used
DE 6.50 usec
TE 293.1 K
TI 1.0000000 sec
DPPH

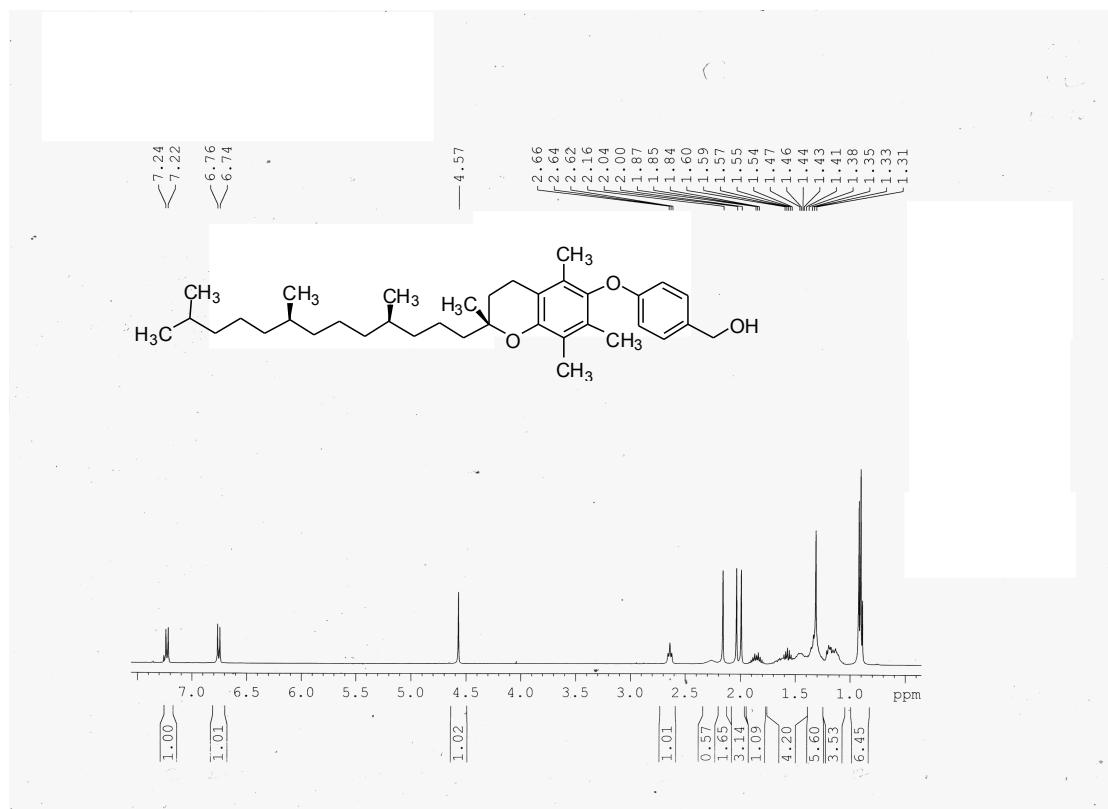
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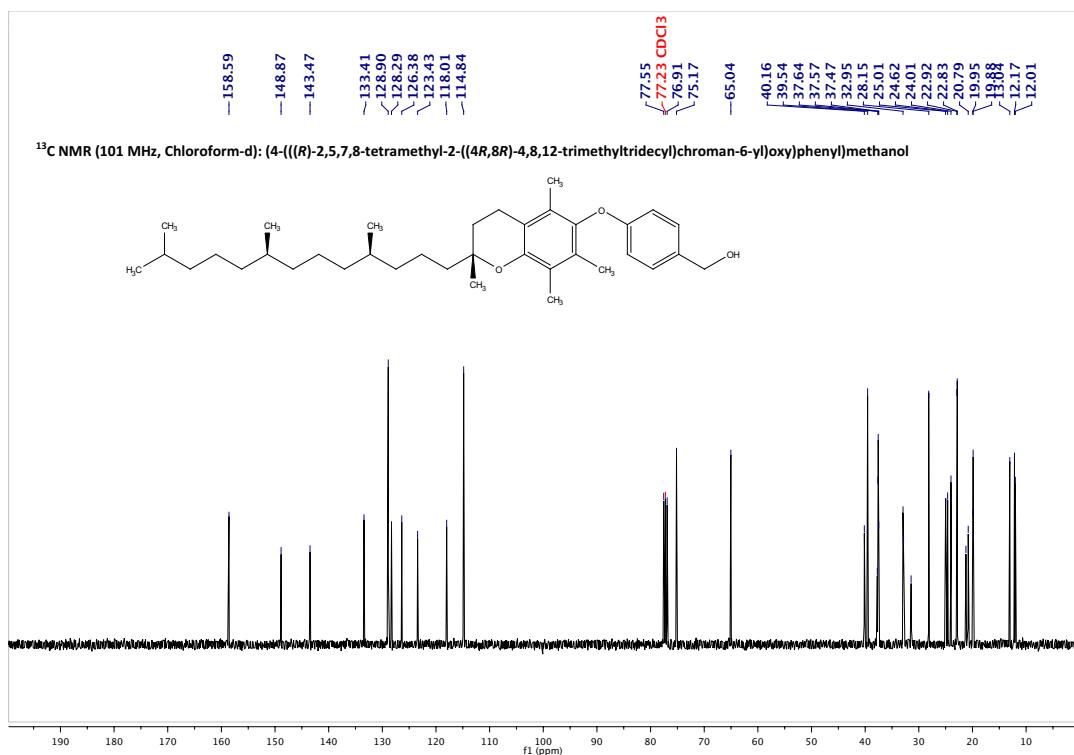


<sup>13</sup>C NMR (101 MHz, Chloroform-d): (9Z,12Z)-N-phenyloctadeca-9,12-dienamide (Entry 33)

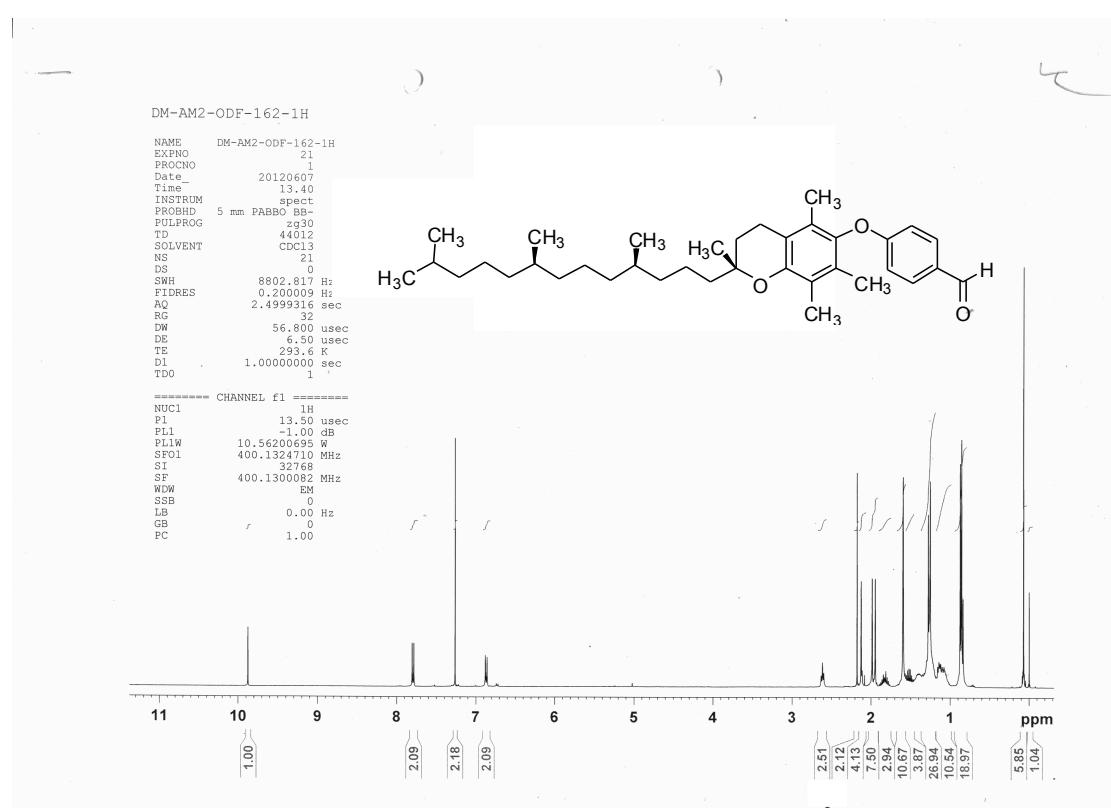


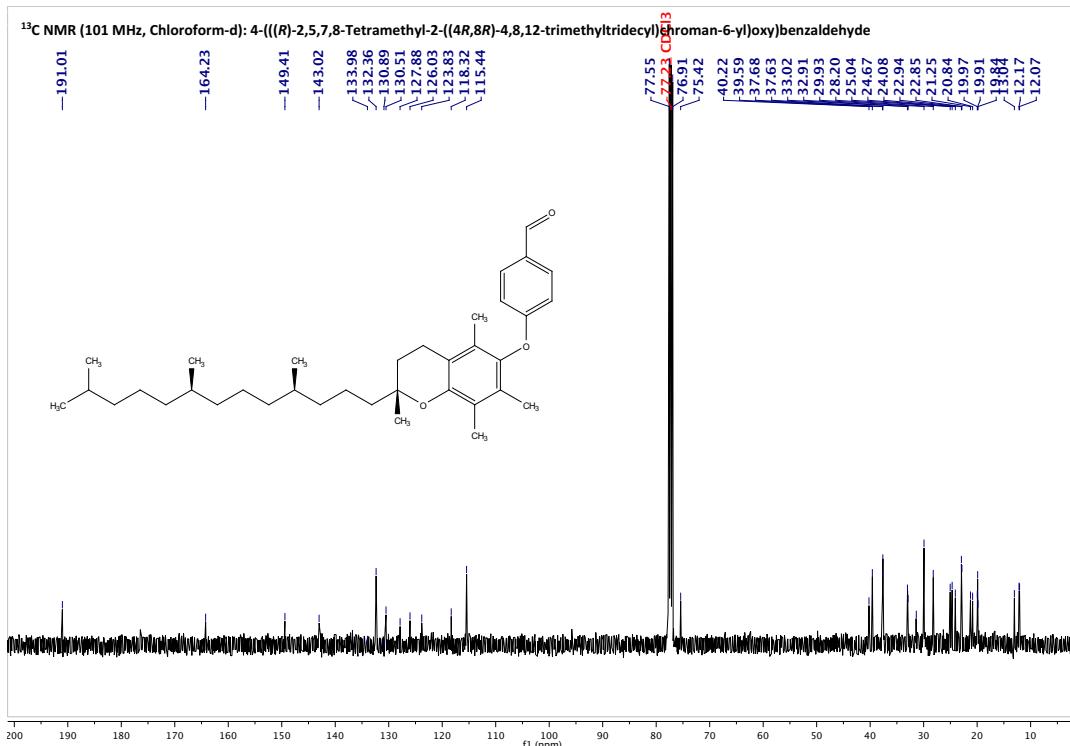
<sup>1</sup>H NMR (400 MHz, Chloroform-d): (4-((R)-2,5,7,8-tetramethyl-2-((4R,8R)-4,8,12-trimethyltridecyl)chroman-6-yloxy)phenyl)methanol



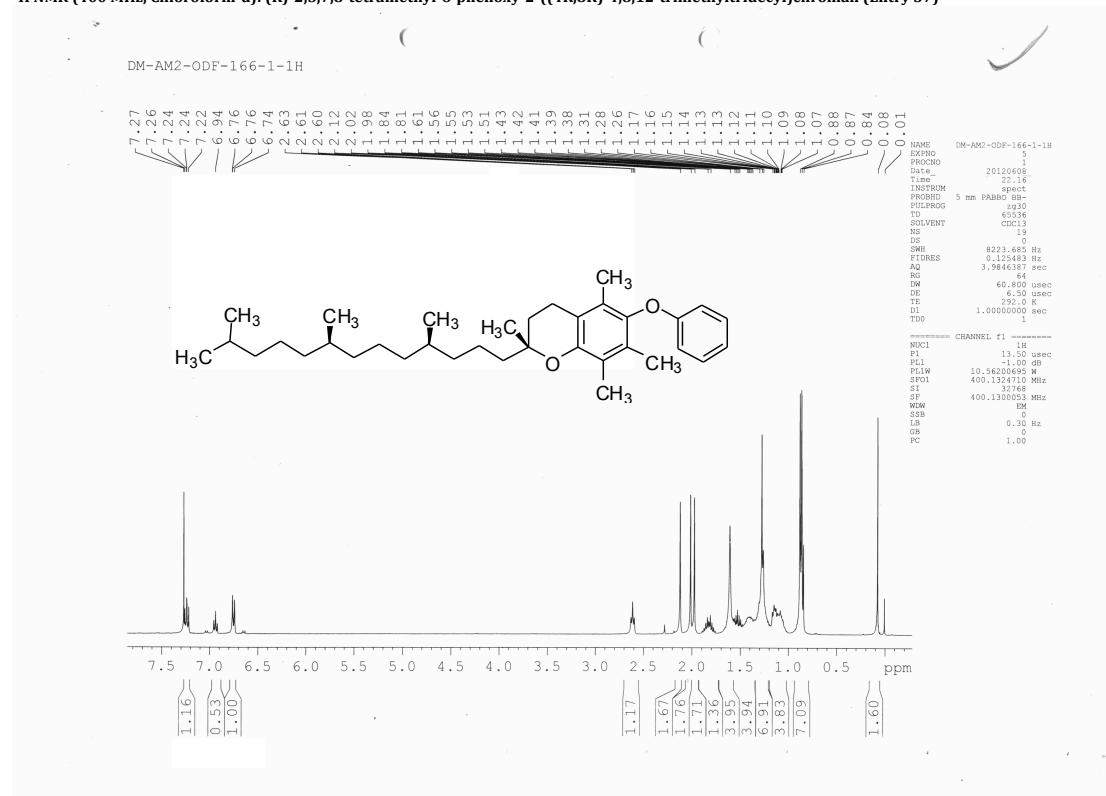


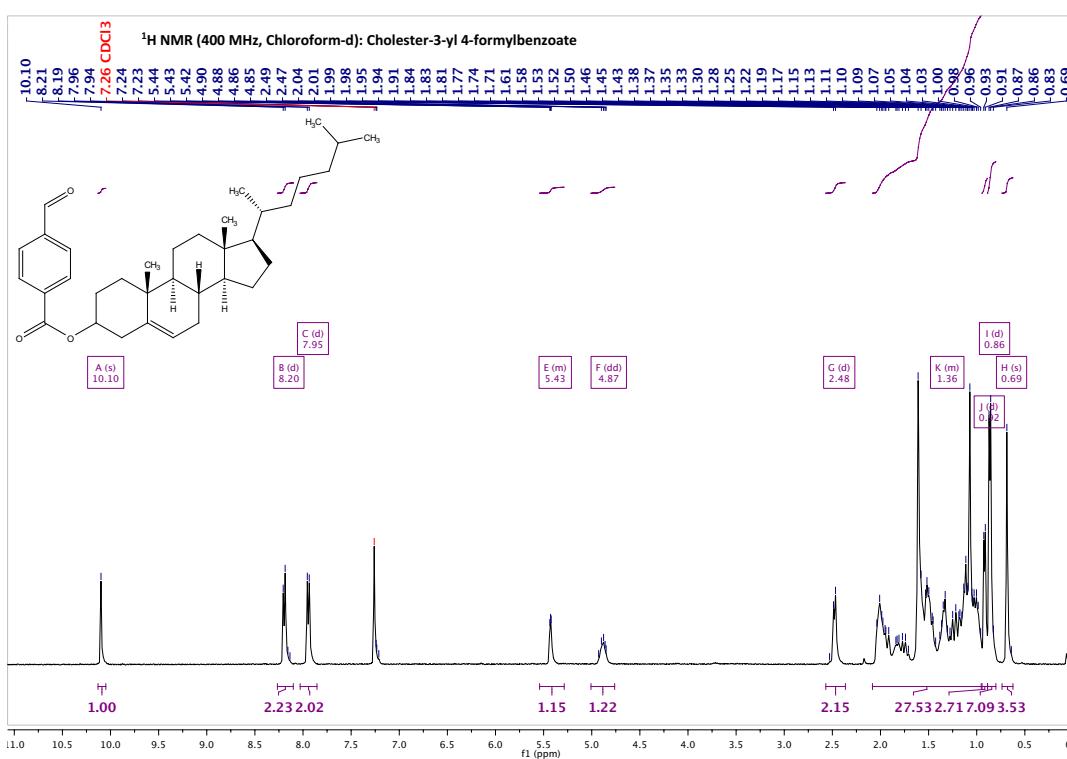
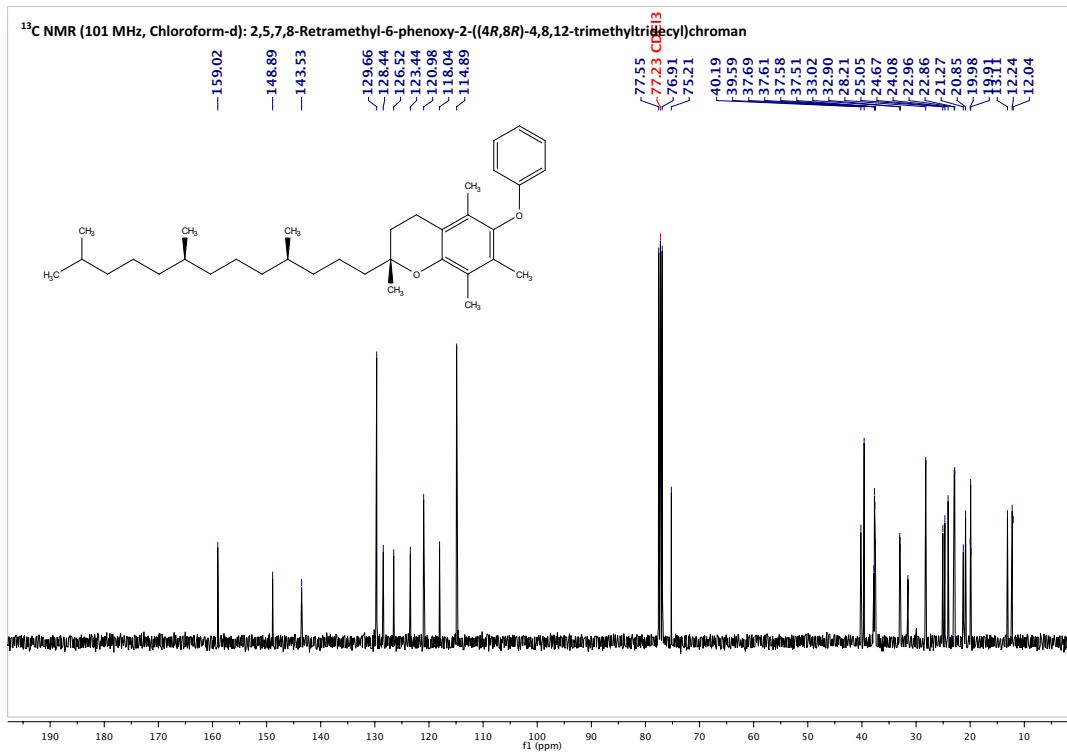
<sup>1</sup>H NMR (400 MHz, Chloroform-d): 4-((*R*)-2,5,7,8-Tetramethyl-2-((4*R*,8*R*)-4,8,12-trimethyltridecyl)chroman-6-yloxy)benzaldehyde

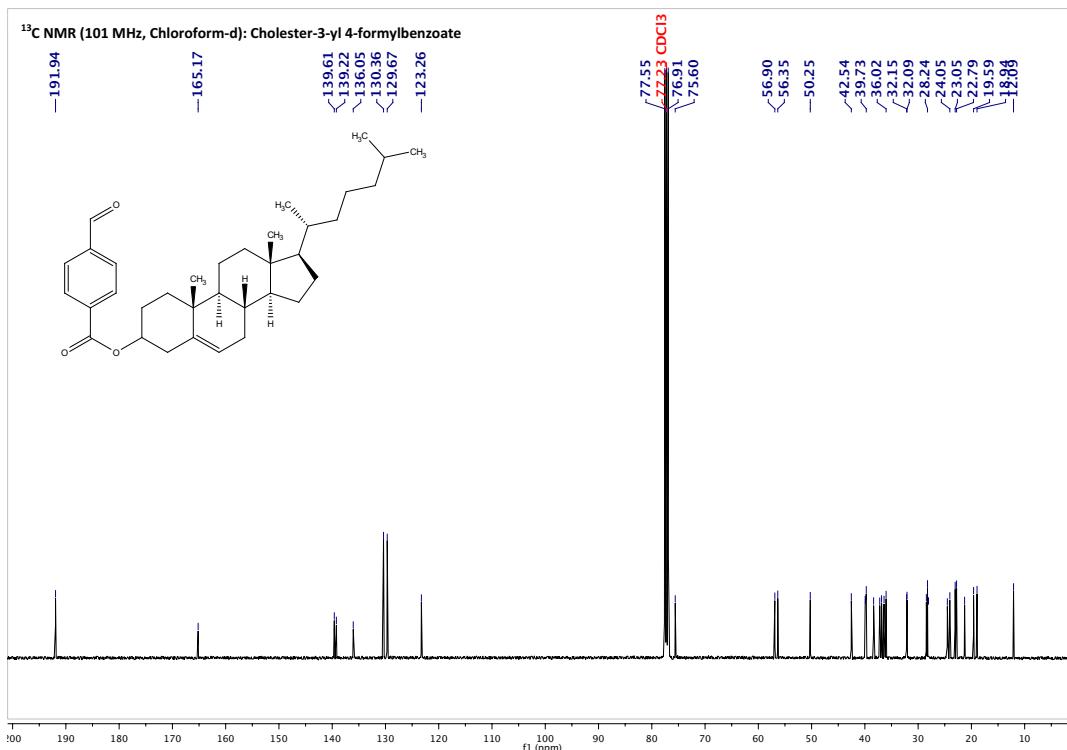




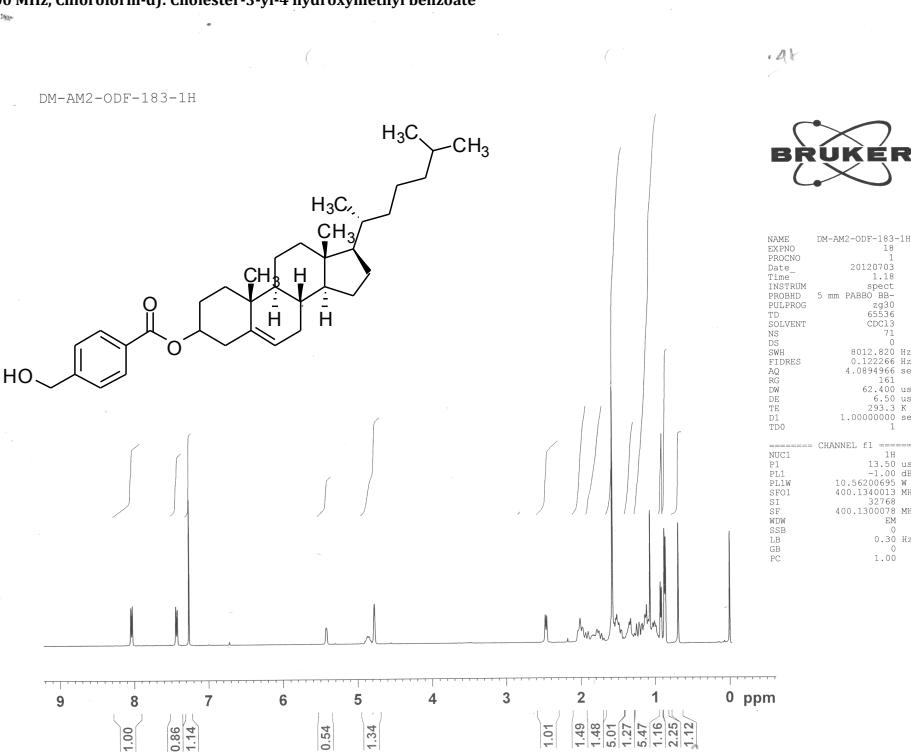
<sup>1</sup>H NMR (400 MHz, Chloroform-d): (R)-2,5,7,8-tetramethyl-6-phenoxy-2-((4R,8R)-4,8,12-trimethyltridecyl)chroman (Entry 37)

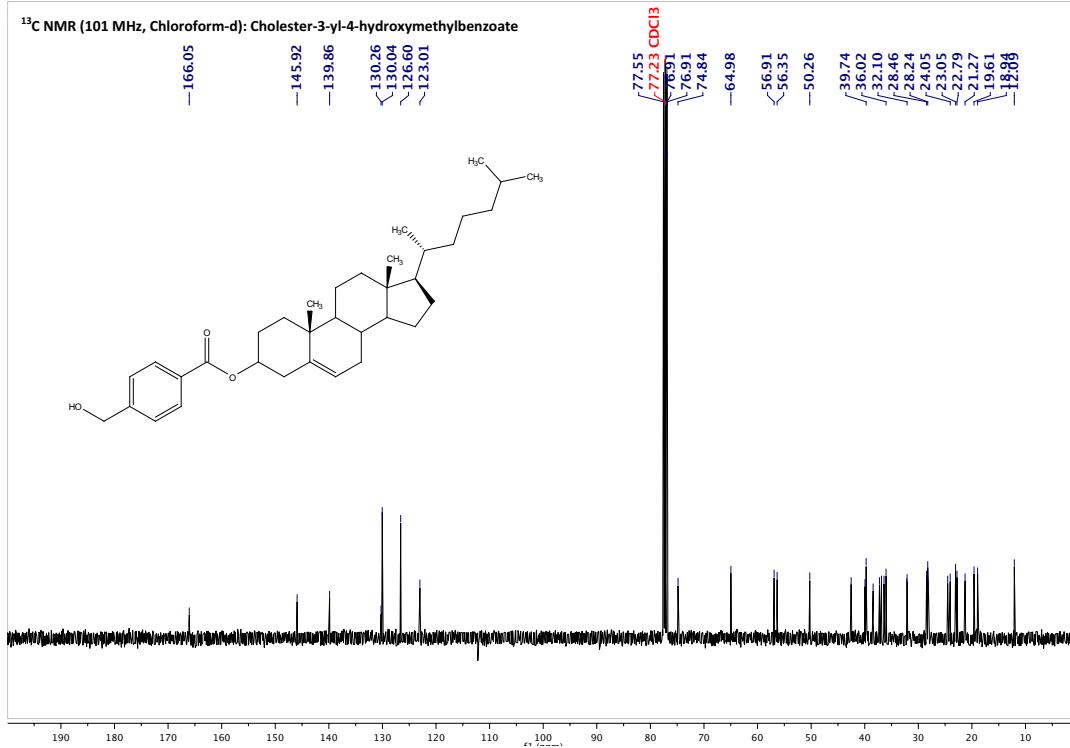




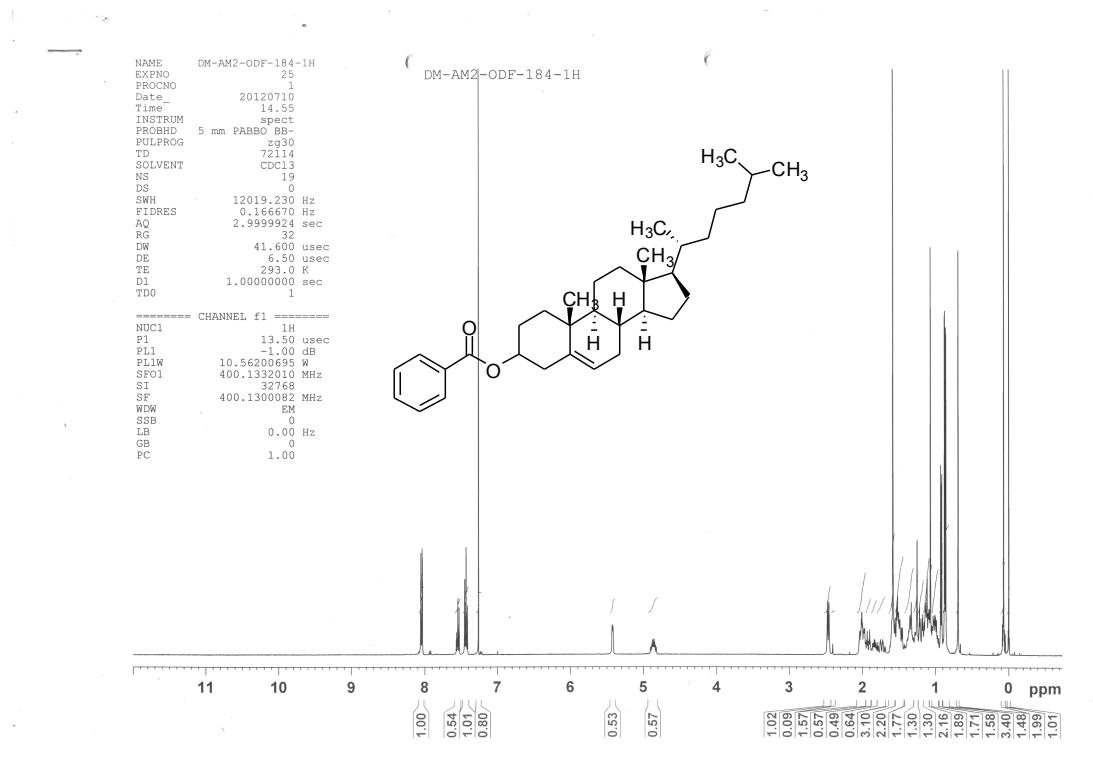


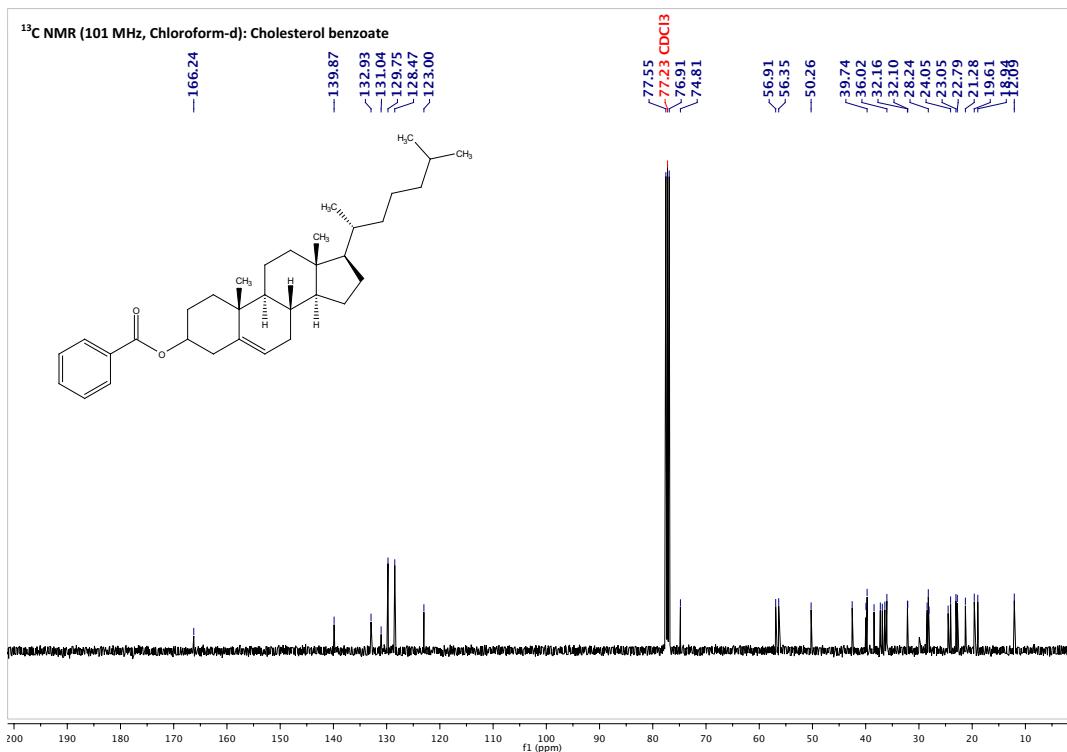
<sup>1</sup>H NMR (400 MHz, Chloroform-d): Cholester-3-yl-4 hydroxymethyl benzoate



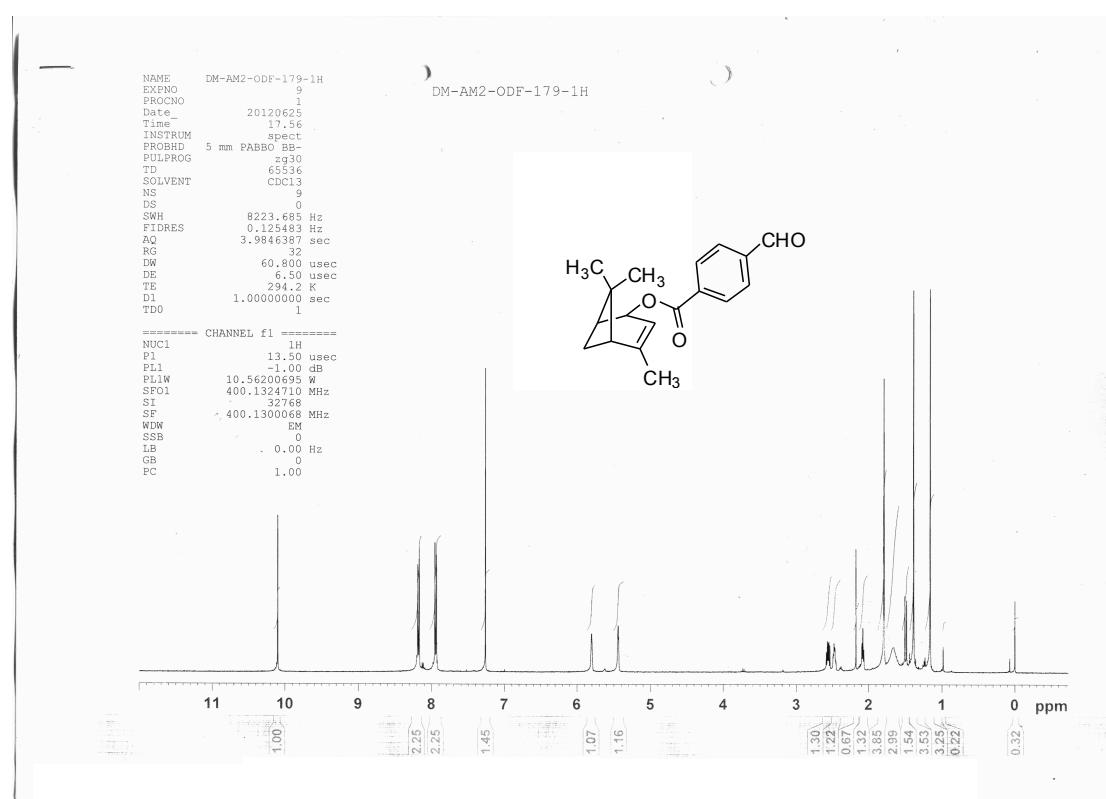


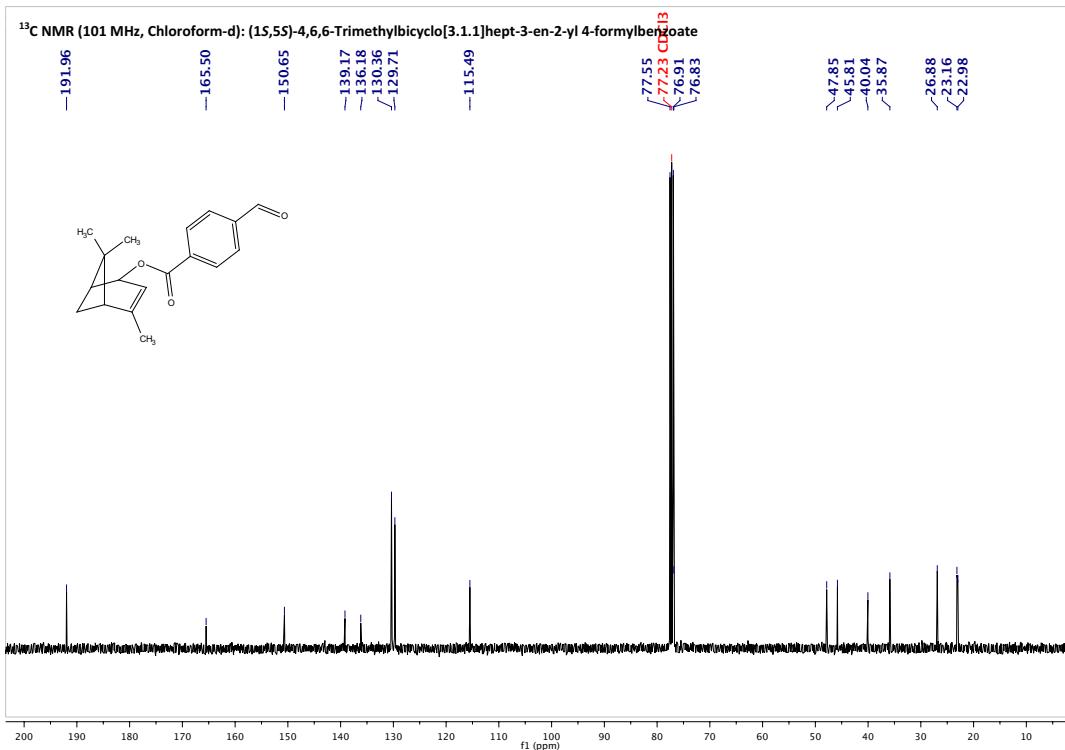
<sup>1</sup>H NMR (400 MHz, Chloroform-d): Cholester-3-yl-benzoate (Entry 36)



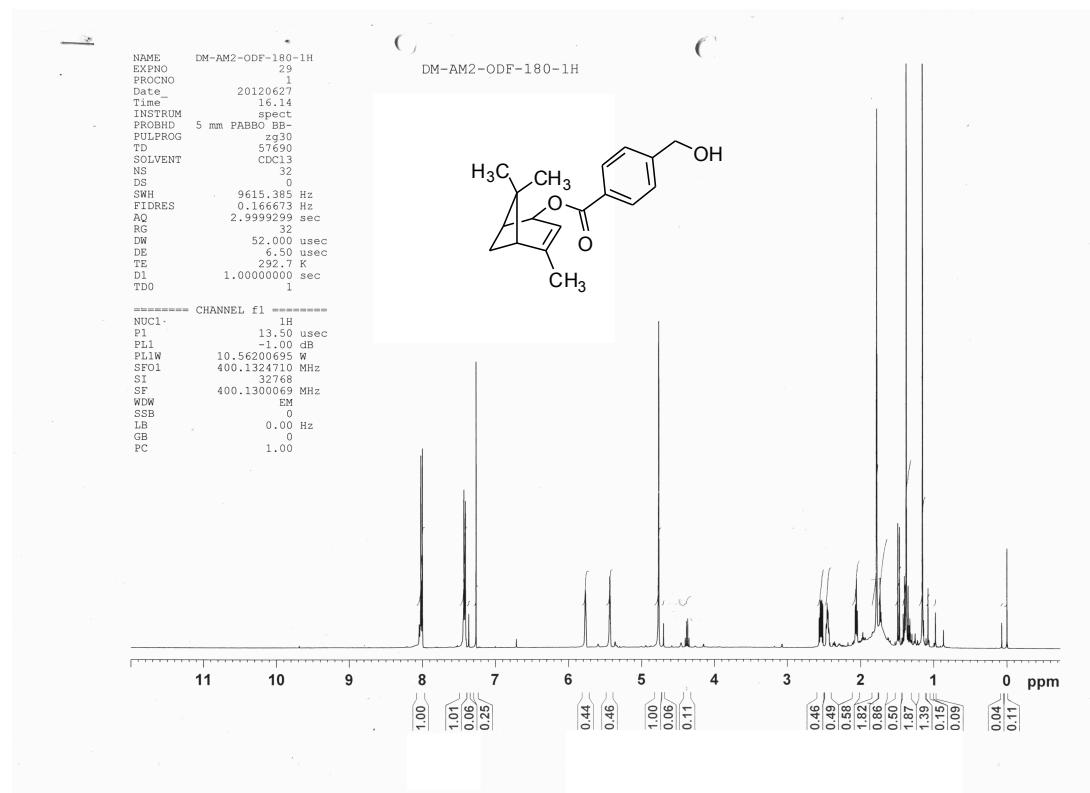


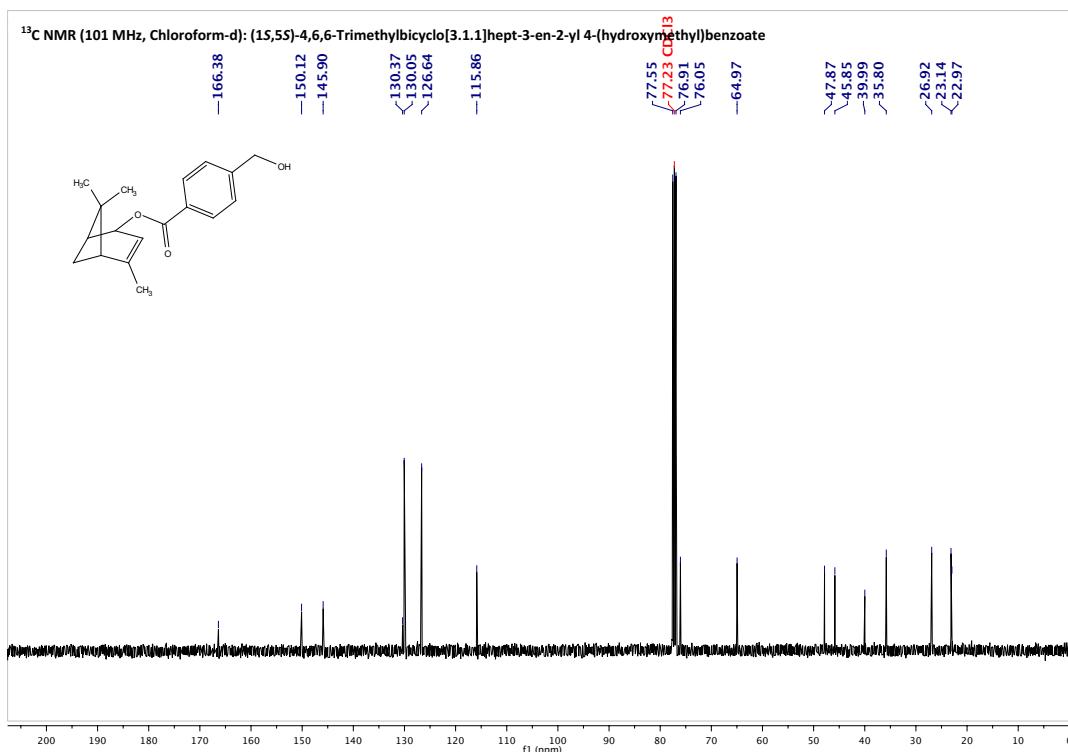
<sup>1</sup>H NMR (400 MHz, Chloroform-d): 4,6,6-trimethylbicyclo[3.1.1]hept-3-en-2-yl 4-formylbenzoate





<sup>1</sup>H NMR (400 MHz, Chloroform-d): 4,6,6-Trimethylbicyclo[3.1.1]hept-3-en-2-yl 4-(hydroxymethyl)benzoate





<sup>1</sup>H NMR (400 MHz, Chloroform-d): Verbenol benzoate (Entry 35)

