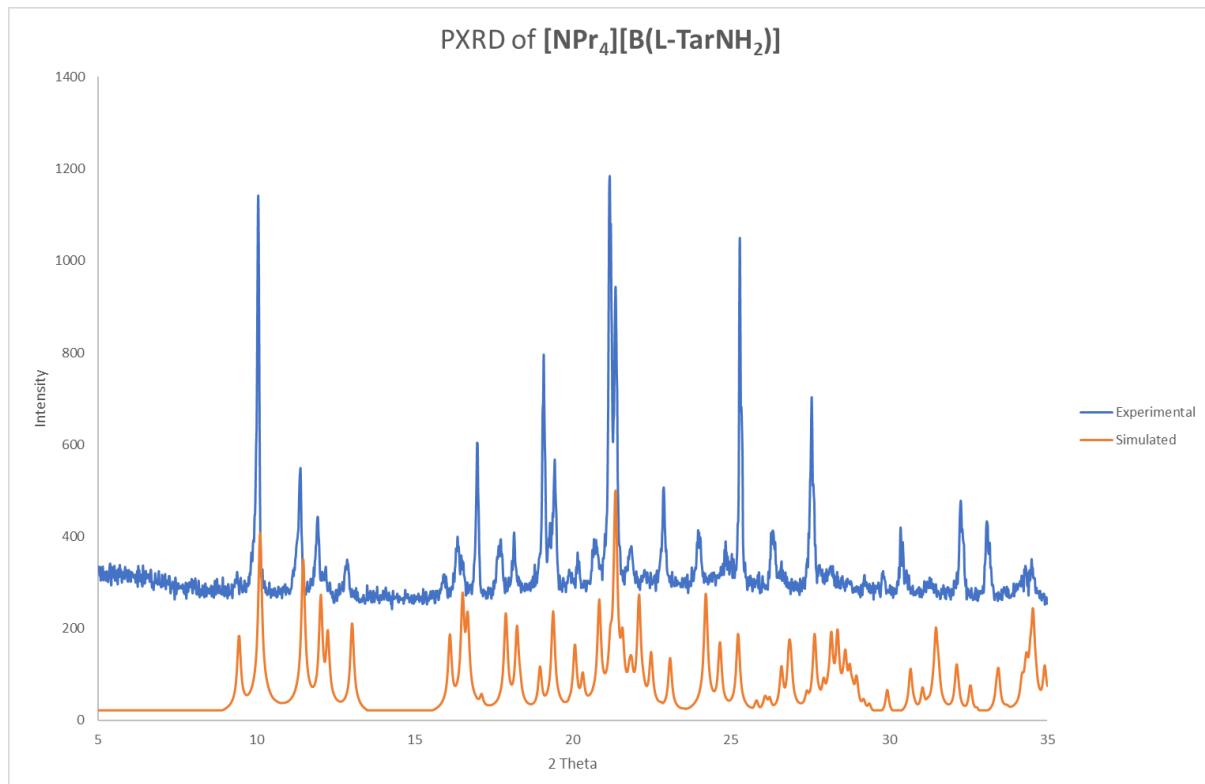


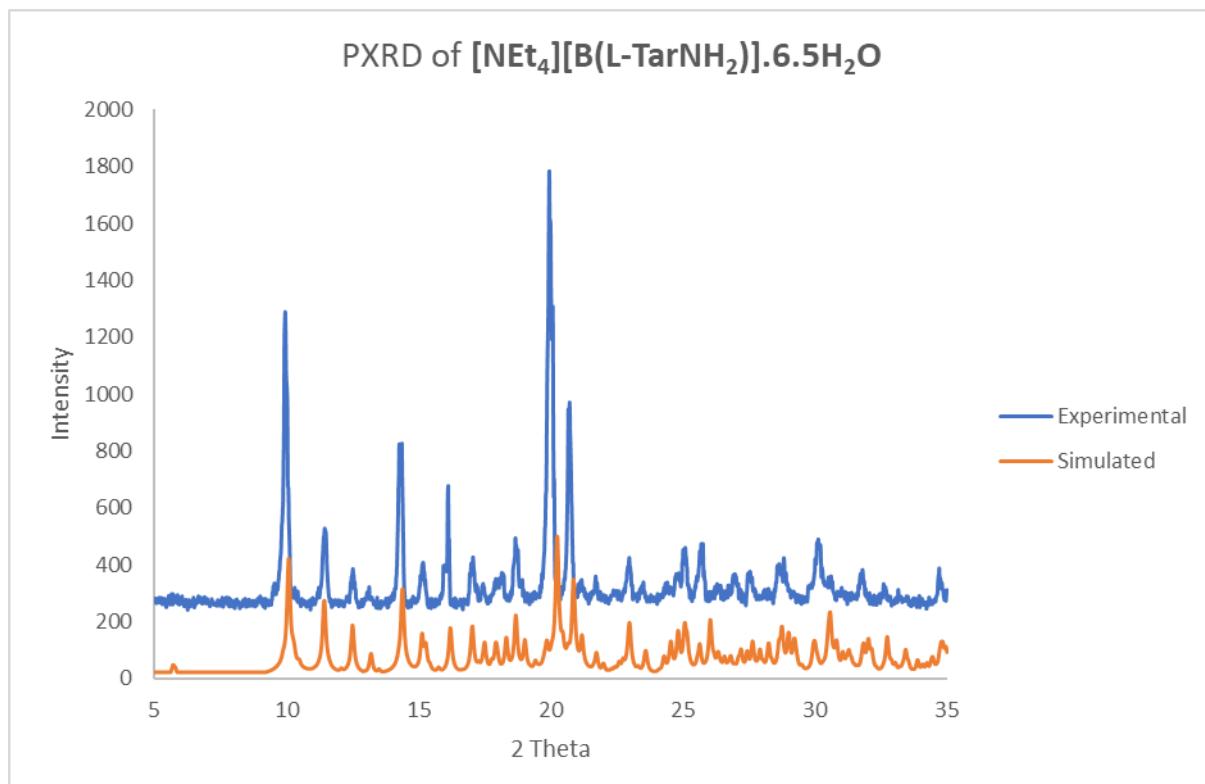
Supplementary Information: Soeцито et al., Acta Cryst C

Powder X-Ray Diffractograms:

1) $[\text{NPr}_4][\text{B}(\text{L-TarNH}_2)_2]$

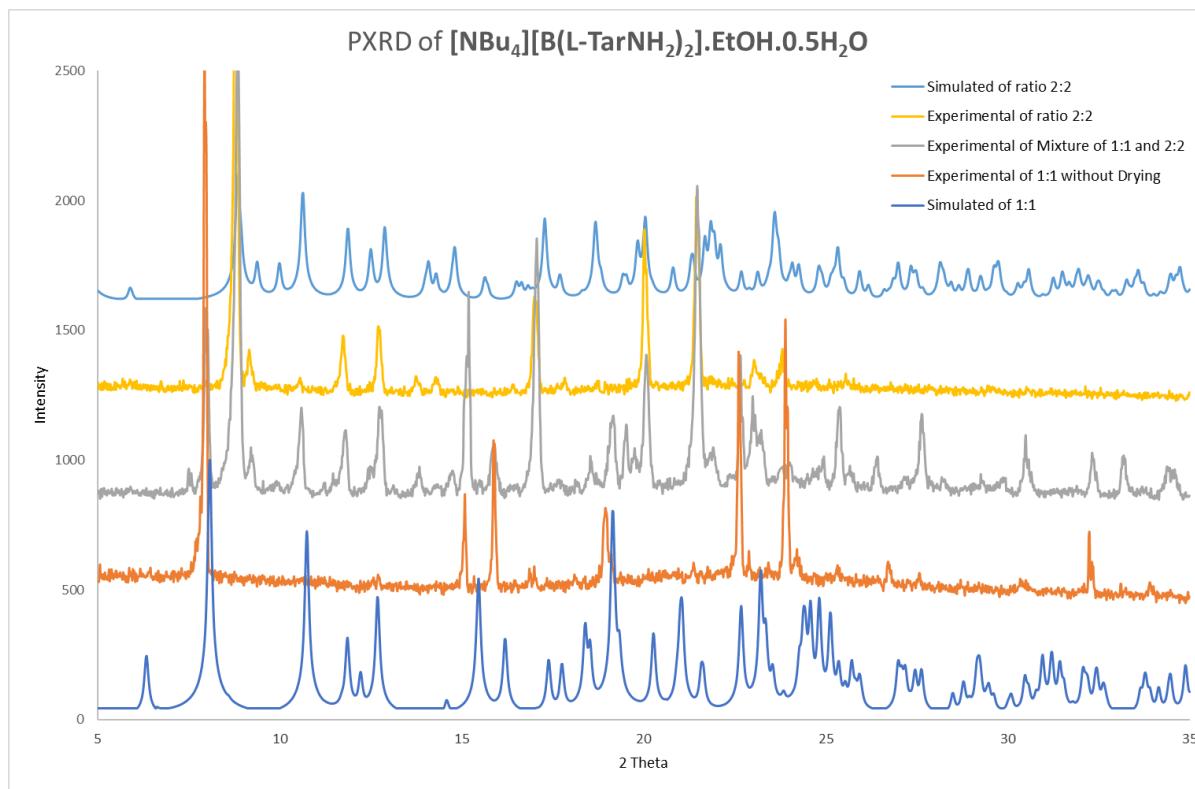


2) $[\text{NEt}_4][\text{B}(\text{L-TarNH}_2)_2] \cdot 6.5\text{H}_2\text{O}$

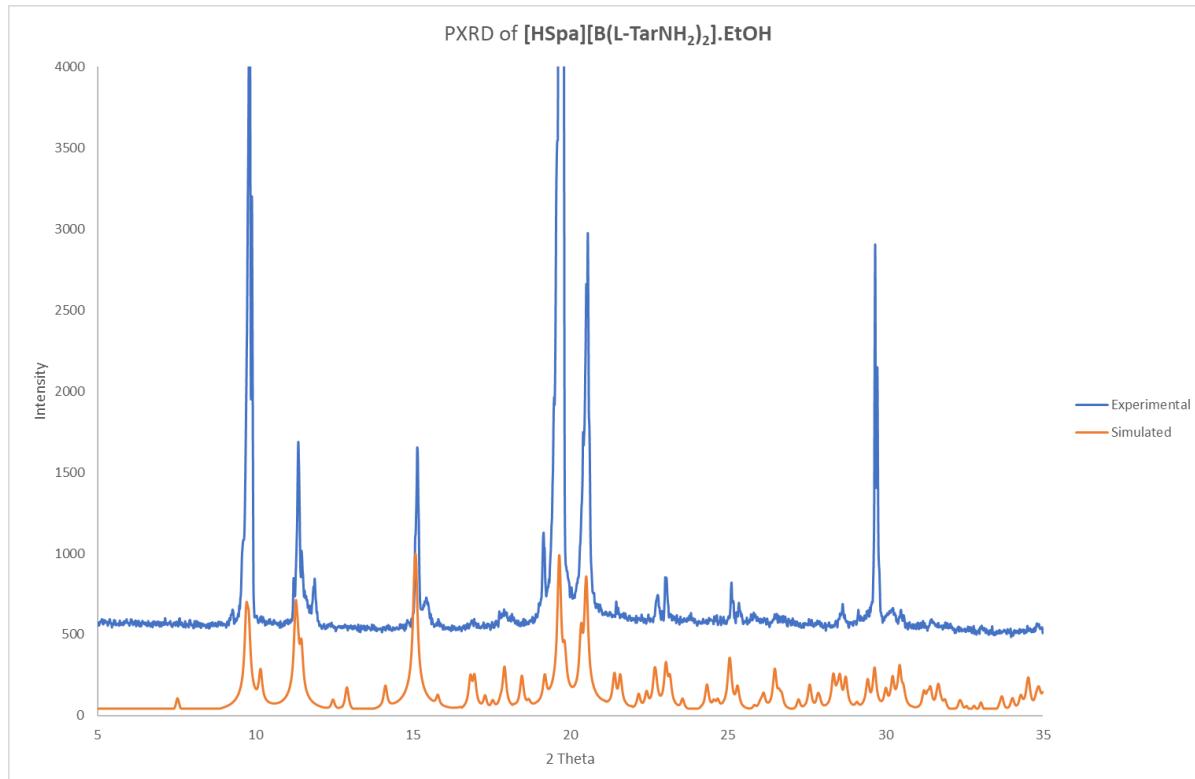


3) $[\text{NBu}_4][\text{B}(\text{L-TarNH}_2)_2]\cdot\text{EtOH}\cdot0.5\text{H}_2\text{O}$

(Note p-XRD patterns can change over time as **3** desolvates to a different crystalline form when left to dry, poor crystal quality of the new phase has prevented its full characterisation)

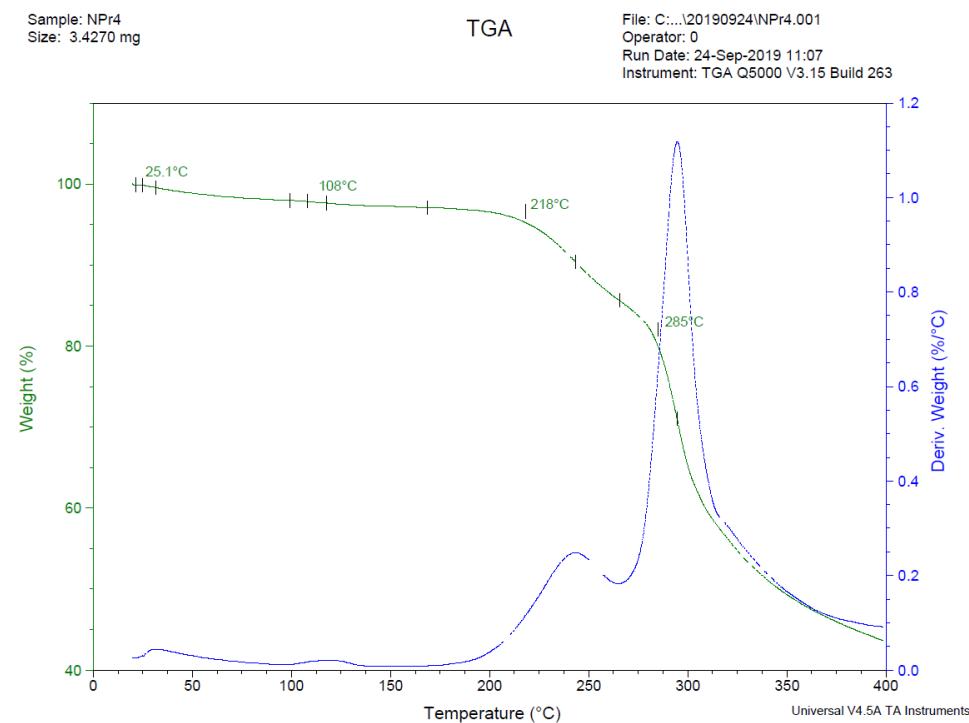


4) $[\text{HSpa}][\text{B}(\text{L-TarNH}_2)_2]\cdot\text{EtOH}$

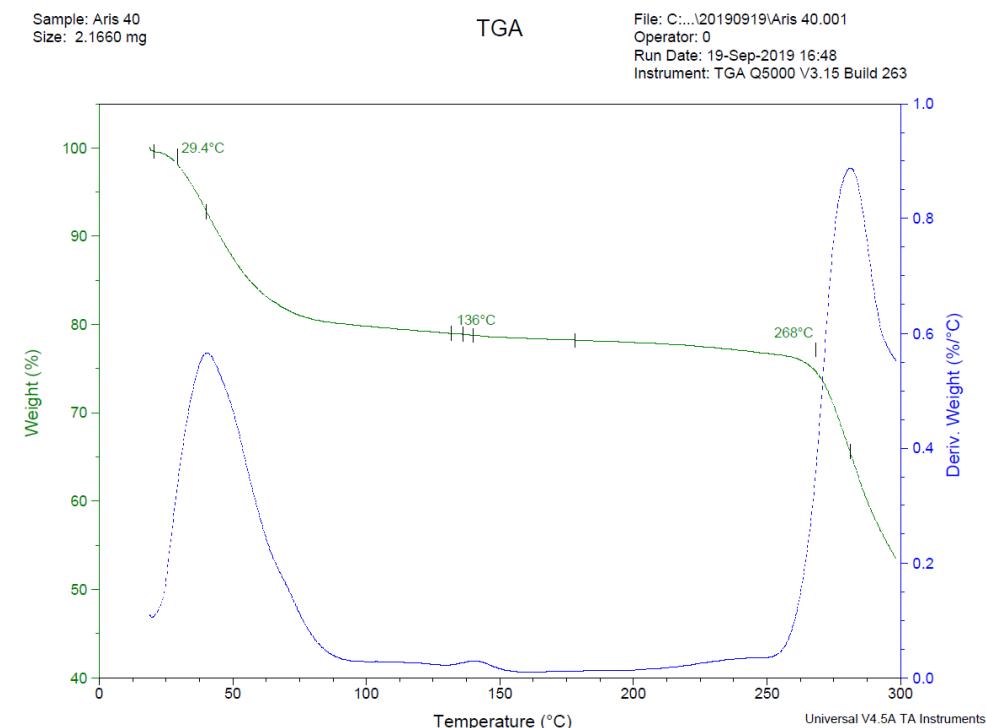


Thermal Gravimetric Analysis

1) $[\text{NPr}_4][\text{B}(\text{L-TarNH}_2)_2]$



2) $[\text{NEt}_4][\text{B}(\text{L-TarNH}_2)_2] \cdot 6.5\text{H}_2\text{O}$



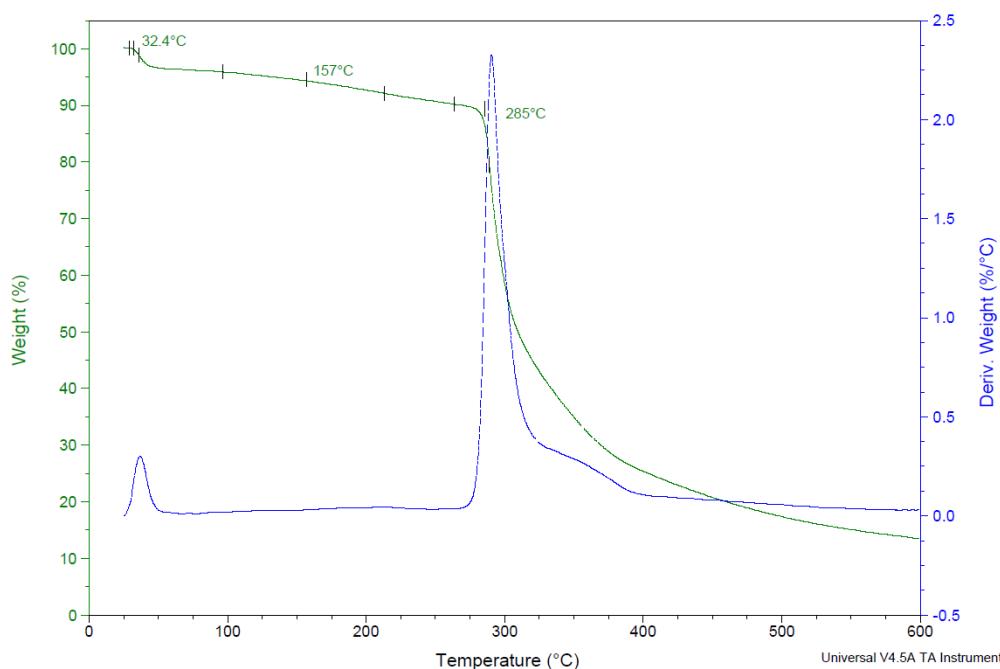
3) $[\text{NBu}_4][\text{B}(\text{L-TarNH}_2)_2]\cdot\text{EtOH}\cdot0.5\text{H}_2\text{O}$

Sample: ARIS 36-2_N2
Size: 0.6890 mg

TGA

File: C:\...\20200529\ARIS 36-2_N2.001

Run Date: 29-May-2020 11:58
Instrument: TGA Q5000 V3.15 Build 263

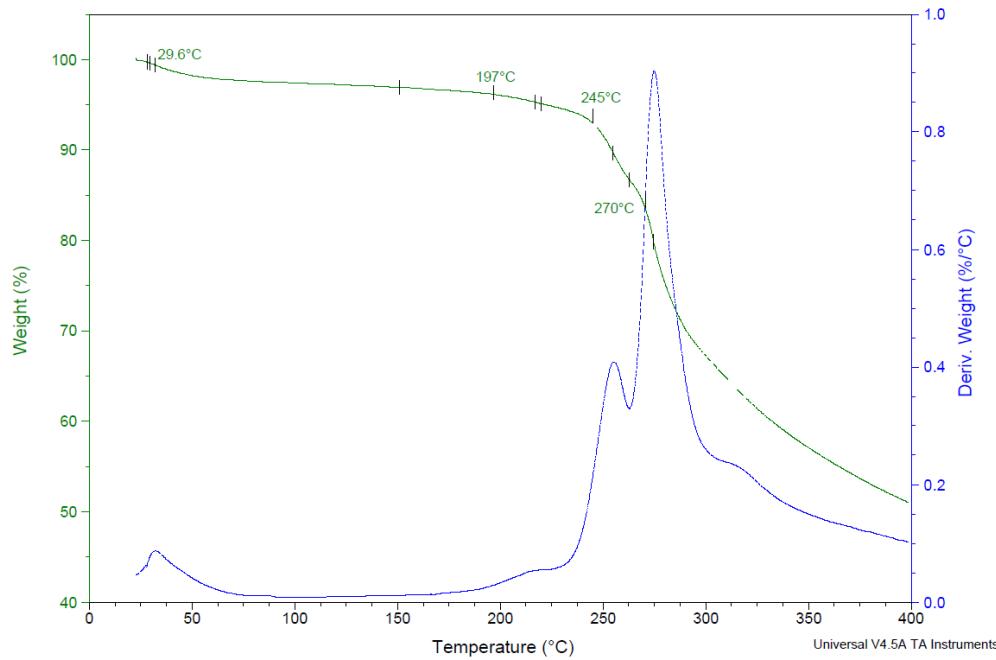


4) $[\text{HSpa}][\text{B}(\text{L-TarNH}_2)_2]\cdot\text{EtOH}$

Sample: ARISlspa_Air
Size: 1.3040 mg

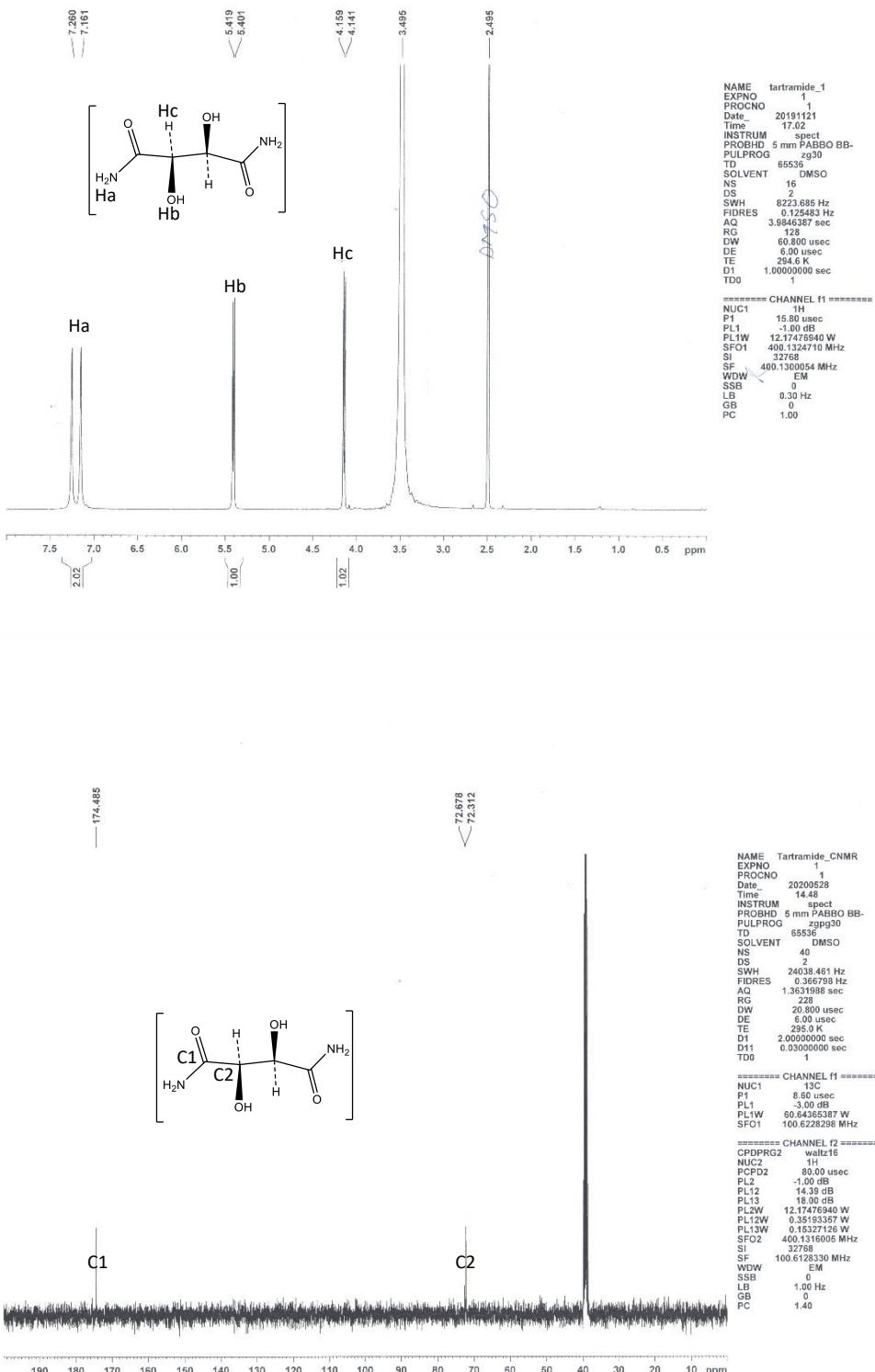
TGA

File: C:\...\20200423\ARISlspa_Air.001
Operator: 0
Run Date: 23-Apr-2020 14:37
Instrument: TGA Q5000 V3.15 Build 263

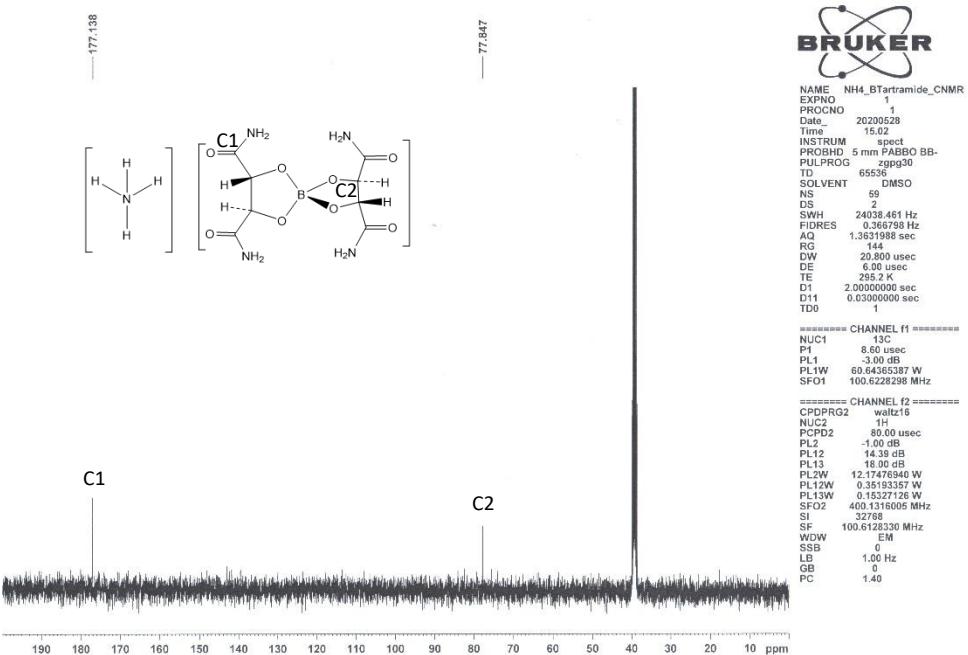
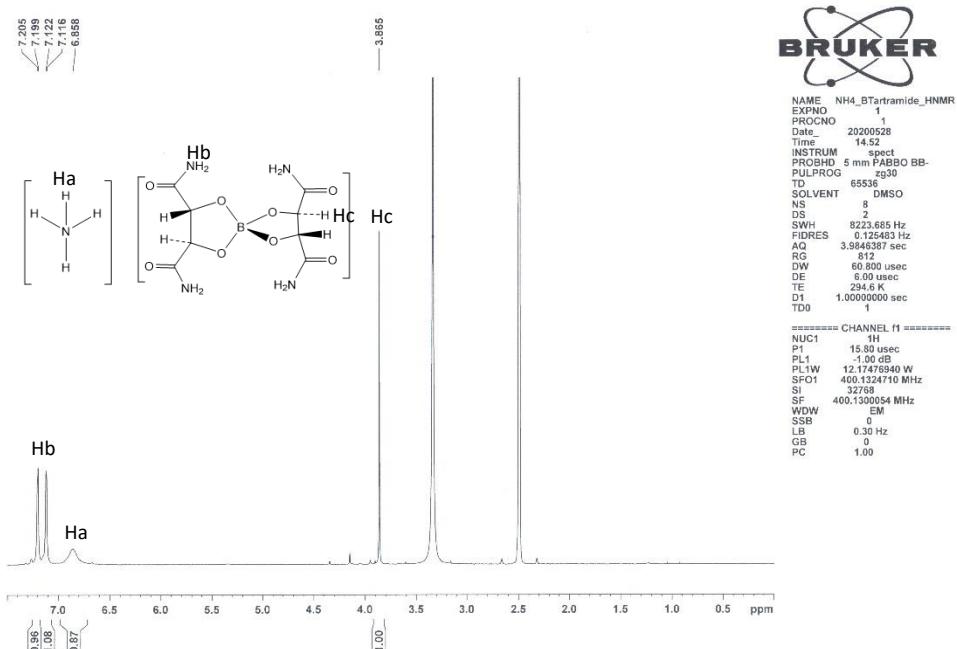


NMR Spectra (Bruker 400MHz)

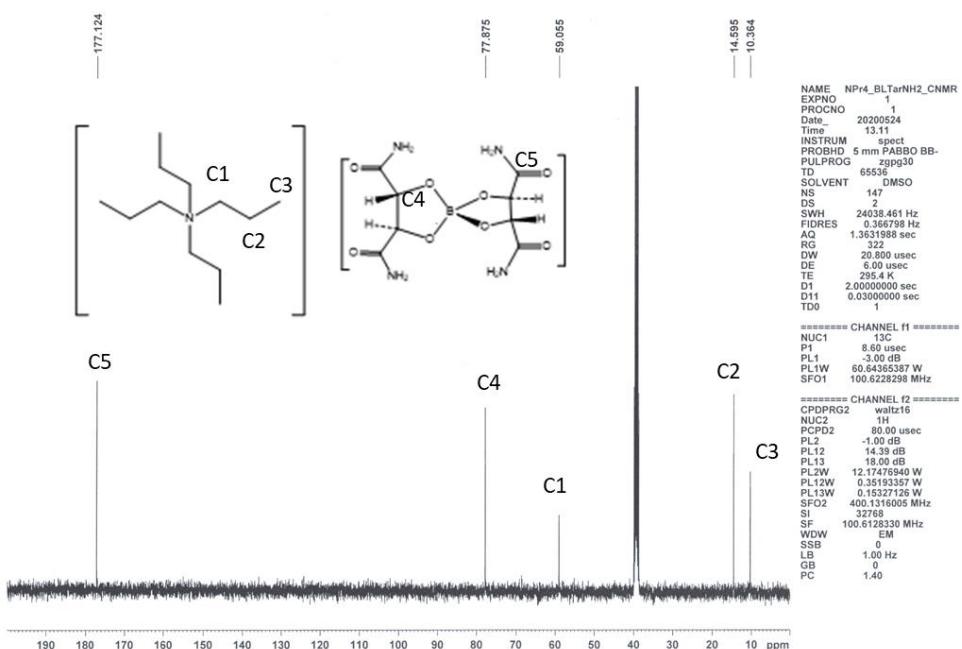
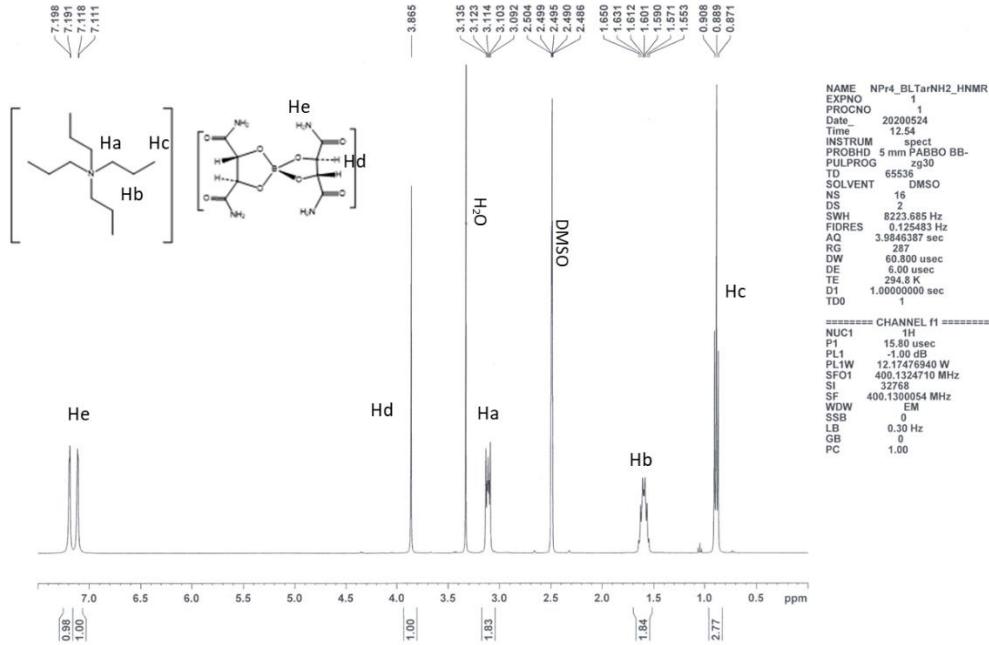
L-Tartramide ligand for reference.



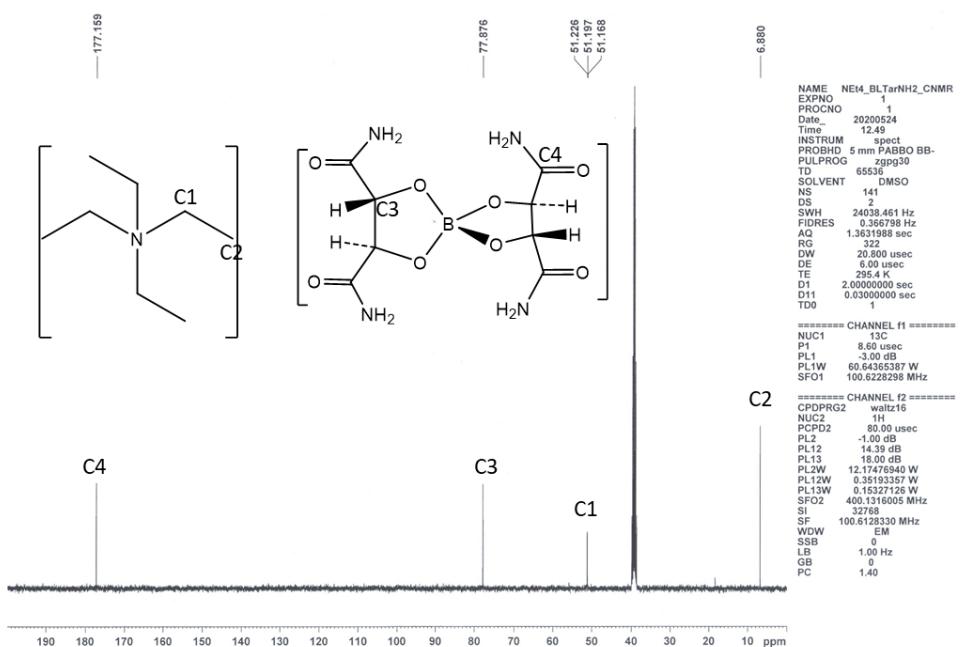
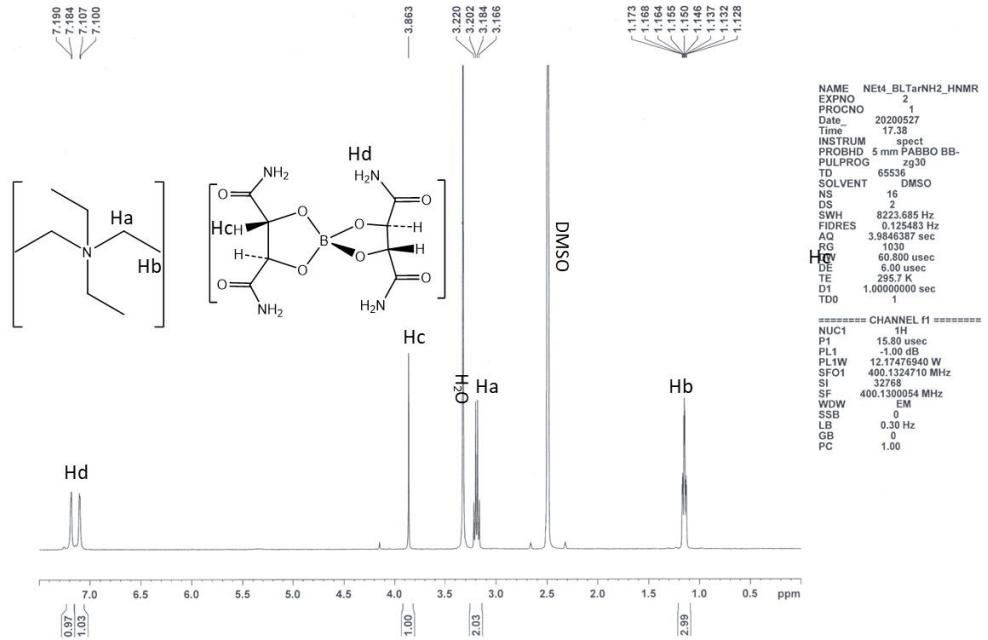
Ammonium bis(L-tartramido)borate $[\text{NH}_4][\text{B}(\text{L-TarNH}_2)_2]$ for reference.



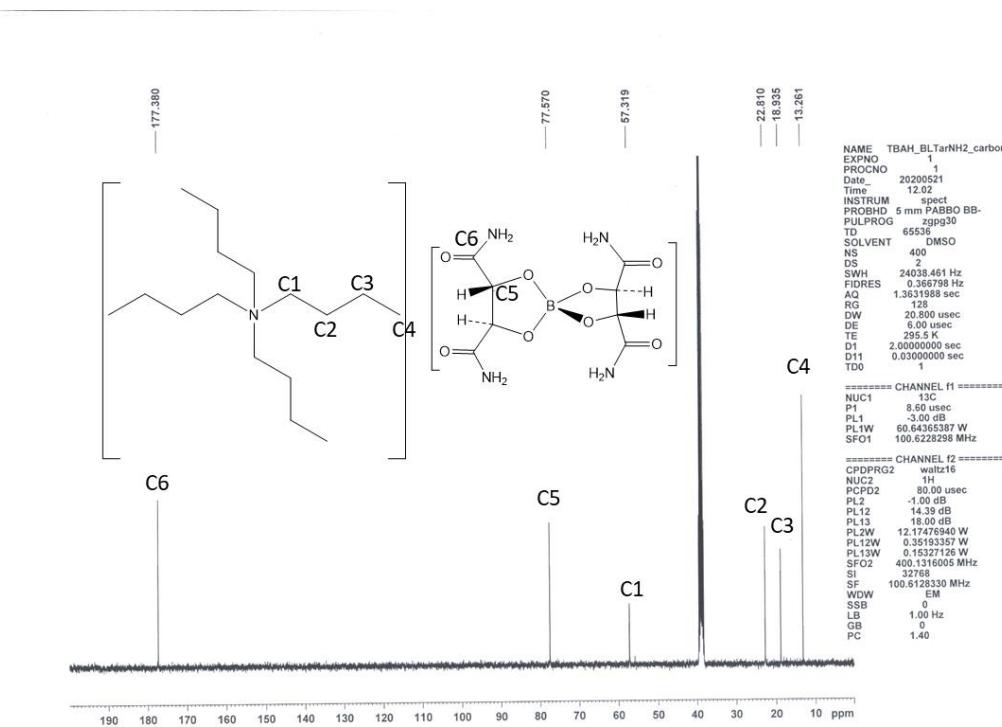
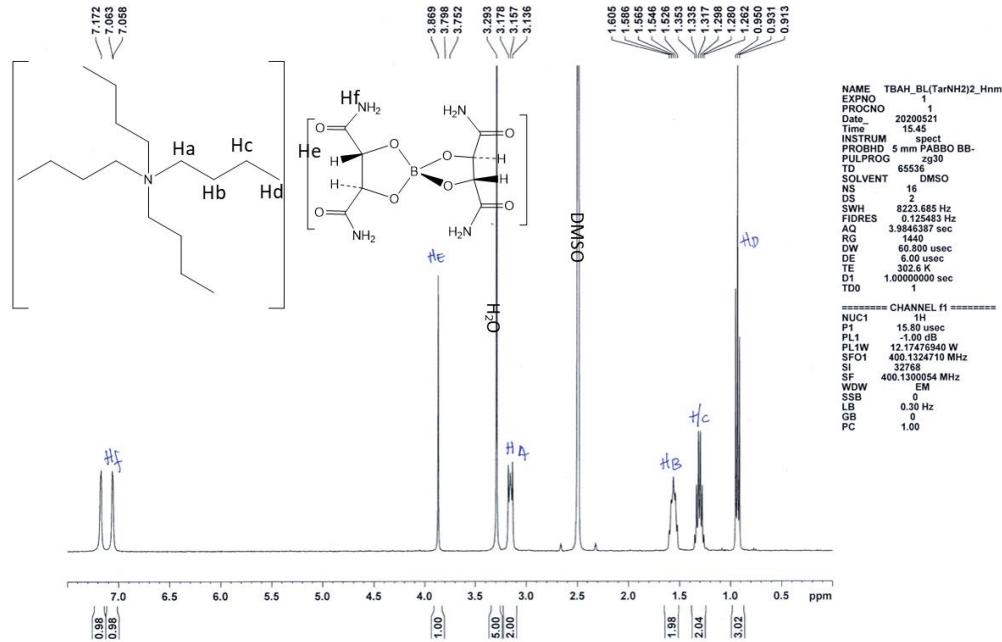
1) [NPr₄][B(L-TarNH₂)₂]



2) [NEt₄][B(L-TarNH₂)₂].6.5H₂O



3) $[\text{NBu}_4][\text{B}(\text{L-TarNH}_2)_2]\cdot\text{EtOH}\cdot0.5\text{H}_2\text{O}$



4) [HSpa][B(L-TarNH₂)₂].EtOH

