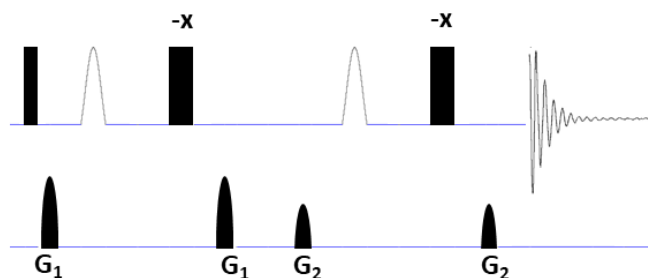
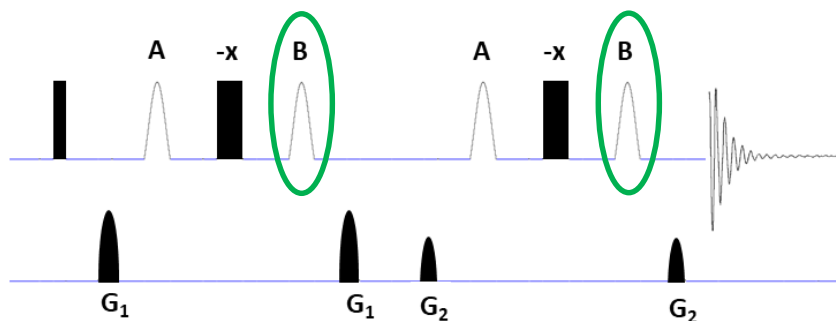


# Modification of ES scheme for double solvent suppression

Traditional ES scheme  
(solvent A only)



Modified ES scheme  
(solvents A and B)



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## Effective Multiple-Solvent Suppression Scheme using The Excitation Sculpting Principle

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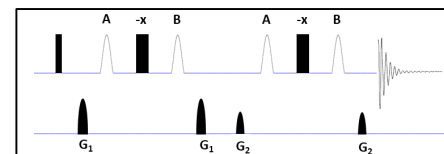
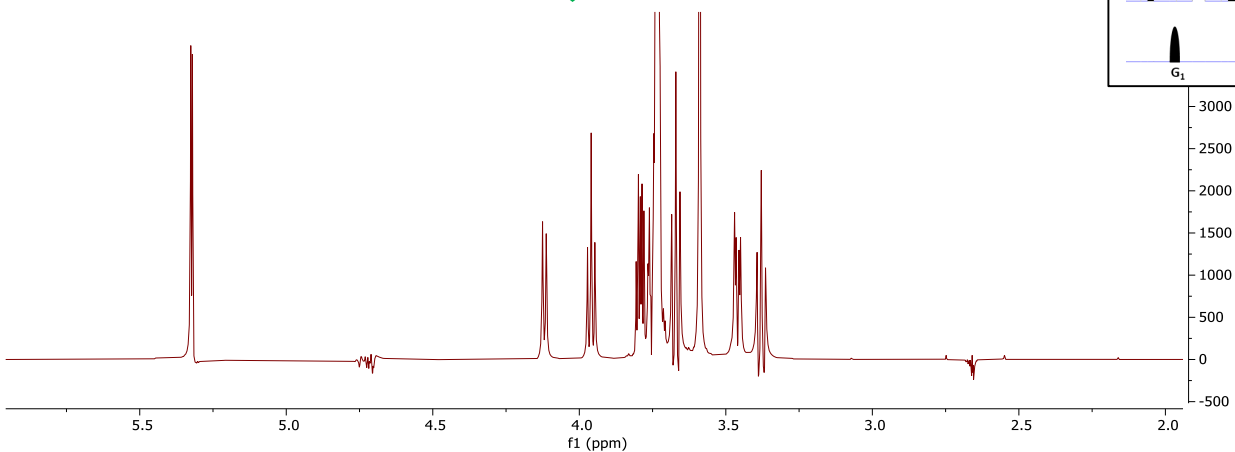
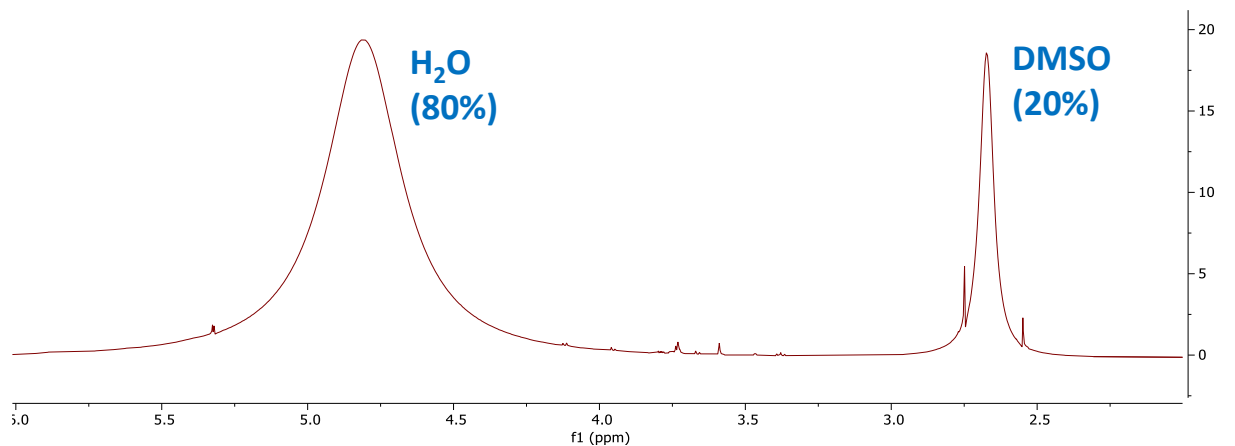
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# 1D ES double solvent suppression

Protonated solvent mix: 80%  $\text{H}_2\text{O}$ , 20%  $\text{DMSO}$   
(+ ~10%  $\text{D}_2\text{O}$ )

25 mM Sucrose



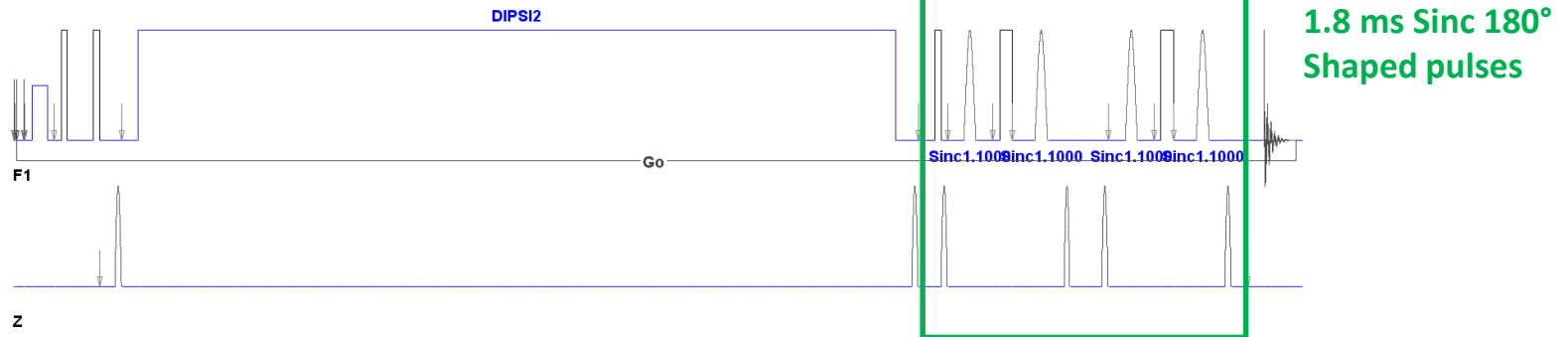
1.8 ms Sinc 180°  
Shaped pulses

700MHz, TCI cryoprobe

# 2D ES double solvent suppression

TOCSY

Modified ES Scheme



25 mM Sucrose

700MHz, TCI cryoprobe

