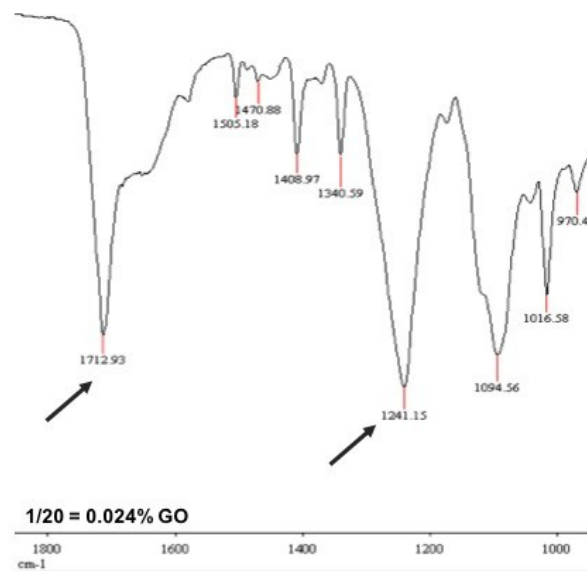
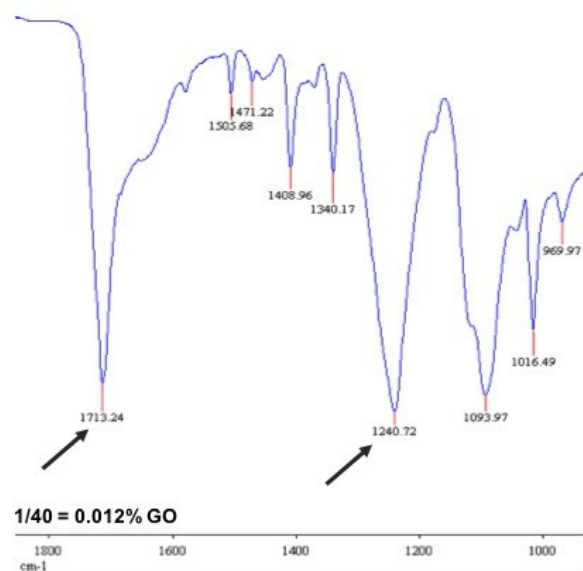
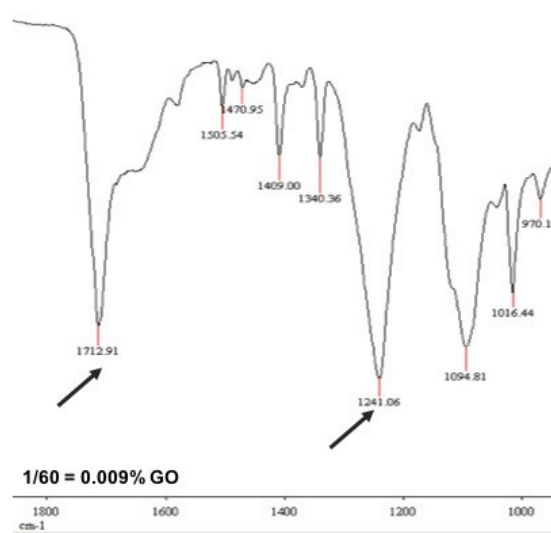
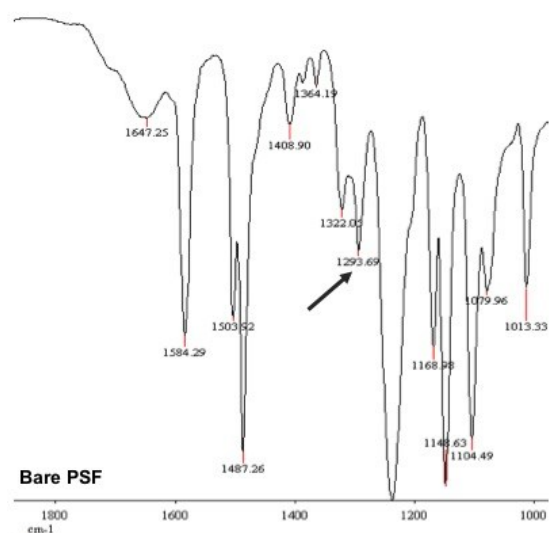
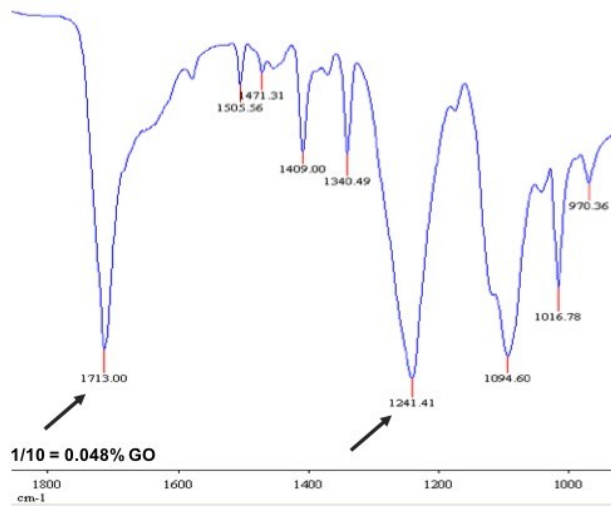


## Membrane properties and anti-bacterial/anti-biofouling activity of polysulfone-graphene oxide composite membranes phase inverted in graphene oxide non-solvent

V.R.S.S. Mokkalapati<sup>1#</sup>, Derya Yuksel. Koseoglu Imer<sup>2,3</sup>, Nurmiray Yilmaz<sup>4</sup>, Ivan Mijakovic<sup>1</sup>, Ismail Koyuncu<sup>2,3</sup>

### FTIR (Fourier Transform Infrared Spectroscopy)

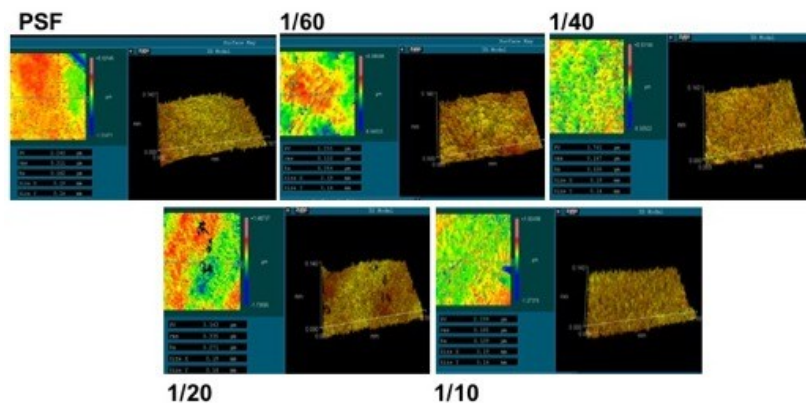




ES 1. FTIR analysis of bare PSF and GO-PSF composite membranes

### Roughness

The roughness values (RMS) of membranes were determined with optic profilometer (Digital Instruments). Before observations, the membranes were dried at room temperature. The membrane samples were fixed on a glass slide and scanned over 10.0  $\mu\text{m} \times 10.0 \mu\text{m}$  area.



Membrane type	RMS ( $\mu\text{m}$ )
Bare PSF	0.21
1/60 GO	0.12
1/40 GO	0.15
1/20 GO	0.33
1/10 GO	0.19

ES 2. Roughness measurements of bare PSF and GO-PSF composite membranes