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APPENDIX B: SAR TISSUE SPECIFICATIONS

Measurement Procedure for Tissue verification:

- 1) The network analyzer and probe system was configured and calibrated.
- 2) The probe was immersed in the tissue. The tissue was placed in a nonmetallic container. Trapped air bubbles beneath the flange were minimized by placing the probe at a slight angle.
- 3) The complex admittance with respect to the probe aperture was measured
- 4) The complex relative permittivity ε can be calculated from the below equation (Pournaropoulos and Misra): -

$$Y = \frac{j2\omega\varepsilon_{r}\varepsilon_{0}}{\left[\ln(b/a)\right]^{2}} \int_{a}^{b} \int_{0}^{a} \int_{0}^{\pi} \cos\phi' \frac{\exp\left[-j\omega r(\mu_{0}\varepsilon_{r}\varepsilon_{0})^{1/2}\right]}{r} d\phi' d\rho' d\rho$$

where Y is the admittance of the probe in contact with the sample, the primed and unprimed coordinates refer to source and observation points, respectively, $r^2 = \rho^2 + {\rho'}^2 - 2\rho\rho'\cos\phi'$, ω is the angular frequency, and $j = \sqrt{-1}$.

3 Composition / Information on ingredients

3.2 Mixtures Description: Aqueous solution with surfactants and inhibitors Declarable, or hazardous components:						
CAS: 107-21-1	Ethanediol	>1.0-4.9%				
EINECS: 203-473-3	STOT RE 2, H373;					
Reg.nr.: 01-2119456816-28-0000	Acute Tox. 4, H302					
CAS: 68608-26-4	Sodium petroleum sulfonate	< 2.9%				
EINECS: 271-781-5	Eye Irrit. 2, H319					
Reg.nr.: 01-2119527859-22-0000						
CAS: 107-41-5	Hexylene Glycol / 2-Methyl-pentane-2,4-diol	< 2.9%				
EINECS: 203-489-0	Skin Irrit. 2, H315; Eye Irrit. 2, H319					
Reg.nr.: 01-2119539582-35-0000						
CAS: 68920-66-1	Alkoxylated alcohol, > C ₁₆	< 2.0%				
NLP: 500-236-9	Aquatic Chronic 2, H411;					
Reg.nr.: 01-2119489407-26-0000	Skin Irrit. 2, H315; Eye Irrit. 2, H319					

Additional information: For the wording of the listed risk phrases refer to section 16.

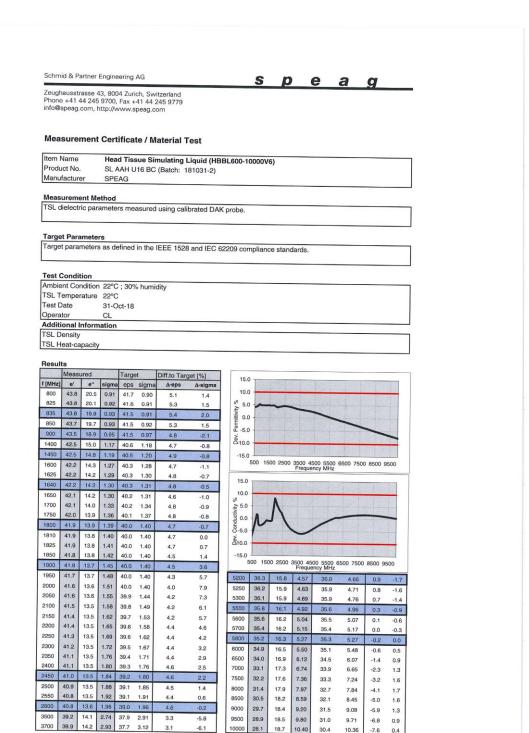
Not mentioned CAS-, EINECS- or registration numbers are to be regarded as Proprietary/Confidential. The specific chemical identity and/or exact percentage concentration of proprietary components is withheld as a trade secret.

Figure B -1

Note: Liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

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			Technical Manager
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TSL Dielectric Parameters

Figure B-2				
600 – 5800 MHz Head Tissue Equivalent Matter				

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