APPENDIX B: SAR TISSUE SPECIFICATIONS

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- 1) The network analyzer and probe system were 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.
- 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

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

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:

withheld as a trade secret.

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

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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Measurement Certificate / Material Test

Item Name	nead maste diministring and	uid (HBBL600-10000V6)	
Product No.	SL AAH U16 CA (Batch: 250	317-1)	

Manufacturer SPEAG

Measurement Method TSL dielectric parameters measured using calibrated DAK probe.

Target parameters as defined in the IEEE 1528 and IEC 62209 compliance standards.

Test Condition

Ambient Condition 22°C; 30% humidity

TSL Temperature 22°C Test Date 20-Mar-25 Operator CL

Additional Information

TSL Density TSL Heat-capacity

Measured		Target		Diff.to Target [%]			
f [MHz]		4"	sigma	eps	sigma	A-eps	4-sigma
600	45.3	24.6	0.82	42.7	0.88	6.0	+7.0
750	44.7	20.9	0.87	41.9	0.09	6.6	-2.6
800	44.6	20.0	0.89	41.7	0.90	7.0	-0.8
825	44.5	19.6	0.90	41.6	0.91	7.0	-0.7
535	44.5	19.4	0.91	41.5	0.91	7.1	-0.2
850	44.4	19.2	0.91	41,5	0.92	7.0	-0.7
900	44.3	18.5	0.93	41.5	0.97	6.7	-4.1
1400	43.4	14.7	1.14	40.6	1.18	6.9	43.3
1450	43.3	14.5	1.17	40.5	1.20	6.9	-2.5
1000	43.1	14.0	1.25	40.3	1.25	6.9	-2.7
1825	43.1	13.9	1.26	40.3	1,30	7.0	-3.0
1840	43.1	13.9	1.27	45.3	1.31	7.1	-2.8
1850	43.0	13.9	1.27	40.2	1.31	6.9	-3.3
1700	42.9	13.8	1.30	40.2	1.34	6.8	-3.1
1750	42.8	13.7	1.33	40.1	1.37	6.8	-3.0
1800	42.8	13.6	1.36	40.0	1.40	7.0	-2.9
1810	42.8	12.6	1.37	40,0	1.40	7.0	-2.1
1025	42.0	13,6	1.38	40.0	1.60	7.0	-5.4
1850	42.7	13.5	1.39	40.0	1.40	6.8	-0.7
1900	42.6	13.4	1.42	40.0	1.40	8.5	1.4
1950	42.5	13,4	1.45	40.0	1.40	6.3	3.6
2000	42.5	13,4	1.49	40,0	1.40	6.3	8.4
2050	42.4	13.3	1.52	39.9	1.44	6.2	5.2
2100	42.3	13.3	1.55	39.8	1.49	6.2	4.1
2150	42.3	13.3	1.59	39.7	1.53	6.5	3.7
2200	42.2	13.3	1.62	39.0	1.58	6.4	2.7
2250	42.1	13.3	1.66	39.6	1.62	6.4	2.3
2300	42.0	13.3	1.70	39.5	1.67	6.4	2.0
2350	42.0	13.3	1.74	39.4	1.71	6.7	1.7
2400	41.9	13.3	1.77	39.3	1.76	6.6	0.8
2450	41.8	13.3	1.81	39.2	1,80	0.6	0.6
2500	41.8	13.3	1.85	39.1	1.85	6.8	-0.2
2550	41.7	13.3	1,80	39.1	1.91	6.7	-1.0
2600	41.6	13.4	1.93	39.0	1.96	8.8	+1.7

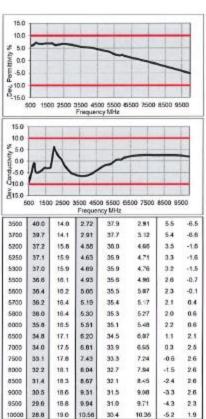


Figure B-2 600 - 10000 MHz Head Tissue Equivalent Matter

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