

APPENDIX B: SAR TISSUE SPECIFICATIONS

Measurement Procedure for Tissue verification:

- 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.
- 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):

$$Y = \frac{j2\omega\epsilon_r\epsilon_0}{[\ln(b/a)]^2} \int_a^b \int_a^b \int_0^\pi \cos\phi' \frac{\exp[-j\omega r(\mu_0\epsilon_r'\epsilon_0)^{1/2}]}{r} d\phi' d\rho' d\rho$$

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 EINECS: 203-473-3 Reg.nr.: 01-2119456816-28-0000	Ethanediol STOT RE 2, H373; Acute Tox. 4, H302	>1.0-4.9%
CAS: 68608-26-4 EINECS: 271-781-5 Reg.nr.: 01-2119527859-22-0000	Sodium petroleum sulfonate Eye Irrit. 2, H319	< 2.9%
CAS: 107-41-5 EINECS: 203-489-0 Reg.nr.: 01-2119539582-35-0000	Hexylene Glycol / 2-Methyl-pentane-2,4-diol Skin Irrit. 2, H315; Eye Irrit. 2, H319	< 2.9%
CAS: 68920-66-1 NLP: 500-236-9 Reg.nr.: 01-2119489407-26-0000	Alkoxylated alcohol, > C₁₆ Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319	< 2.0%

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.

FCC ID: BCG-A3579	RF Exposure Part 2 Test Report	Approved by: Technical Manager
EUT Type: Watch	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.	APPENDIX B Page 1 of 2

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Measurement Certificate / Material Test

Item Name	Head Tissue Simulating Liquid (HBL000-10000V6)
Product No.	SL AAH U16 CA (Batch: 250317-1)
Manufacturer	SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Target Parameters

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

Results

f [MHz]	ε'	ε''	sigma	eps	sigma	Δ-eps	Δ-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	0.89	6.6	-2.6
800	44.6	20.0	0.89	41.7	0.90	7.0	-0.8
825	44.5	19.8	0.90	41.6	0.91	7.0	-0.7
835	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	-3.3
1450	43.3	14.5	1.17	40.5	1.20	6.9	-2.5
1000	43.1	14.0	1.25	40.3	1.28	6.9	-2.7
1625	43.1	13.9	1.28	40.3	1.30	7.0	-3.0
1840	43.1	13.9	1.27	40.3	1.31	7.1	-2.8
1050	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	13.6	1.37	40.0	1.40	7.0	-2.1
1825	42.8	13.6	1.38	40.0	1.40	7.0	-1.4
1850	42.7	13.5	1.39	40.0	1.40	6.9	-0.7
1900	42.6	13.4	1.42	40.0	1.40	6.5	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	6.4
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	39.6	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	6.6	0.6
2500	41.8	13.3	1.85	39.1	1.85	6.8	-0.2
2550	41.7	13.3	1.89	39.1	1.91	6.7	-1.0
2600	41.6	13.4	1.93	39.0	1.96	6.6	-1.7

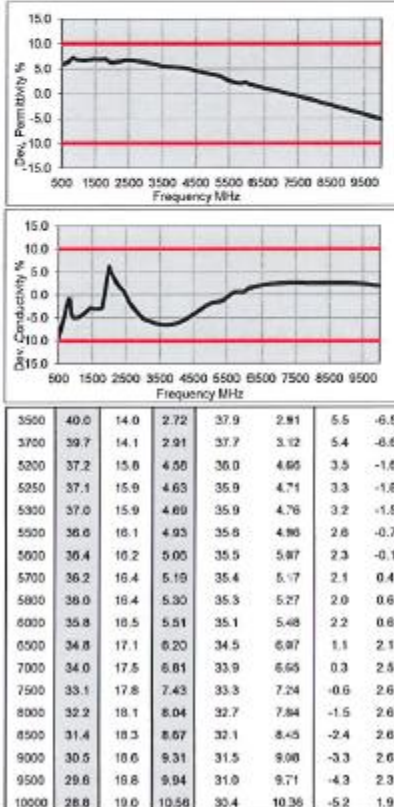


Figure B-2
600 – 10000 MHz Head Tissue Equivalent Matter

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