Appendix E. Tissue & System Verification

The measuring results for tissue simulating liquid and system check are shown as below.

Note:

- 1. For Section 4.3, the dielectric properties of the tissue simulating liquid have been measured within 24 hours before the SAR testing and within ± 10 % of the target values. Liquid temperature during the SAR testing has kept within ± 2 °C.
- 2. For Section 4.4, The SAR measurement system was validated according to procedures in KDB 865664 D01. The validation status in tabulated summary is as below.
- 3. For Section 4.5, Comparing to the reference SAR value provided by SPEAG in dipole calibration certificate, the deviation of system check results is within its specification of 10 %. The result indicates the system check can meet the variation criterion and the plots please refer to Appendix A of this report.

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					Tissue Veri	fication				Va	lidation for 0	CW	Validat	ion for Mod	ulation			Sys	tem Valida	tion			Note			
Plot N	No. Freque	ency Te	iquid (emp. (°C)	Conductivit y (σ)	Permittivity (εr)	Targeted Conductivity (σ)	Targeted Permittivity (ɛr)	Deviation Conductivity (σ)	Deviation Permittivity (ɛr)	Sensitivity Range	Probe Linearity	Probe Isotropy	Modulation Type	Duty Factor	PAR	Date	Frequency (MHz)	Targeted 1g SAR (W/kg)	Measured 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N		
S01	L 6500	00 2	23.3	6.11	34.4	6.07	34.5	0.66	-0.29	Pass	Pass	Pass	OFDM	N/A	Pass	Apr. 13, 2021	6500	285.00	30.2	302.00	5.96	1008	7555	1589		

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Test Date	Frequency [GHz]	mmWave Probe S/N	Verification Source S/N	Averaging Area [cm²]	Distance [mm]	Target Power Density [W/m²]	Measured Power Density [W/m²]	Deviation [%]	
Apr. 13, 2021	10	9361	1025	4	10.0	42.7	41.3	-3.28%	