

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 $\pm 10\%$ of the target values. Liquid temperature during the SAR testing has kept within $\pm 2^\circ\text{C}$.
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.

Tissue Verification										System Validation					Note		
Plot No.	Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε _r)	Targeted Conductivity (σ)	Targeted Permittivity (ε _r)	Deviation Conductivity (σ)	Deviation Permittivity (ε _r)	Date	Frequency (MHz)	Targeted 10g SAR (W/kg)	Measured 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N
S01	2450	23.3	1.869	39.986	1.8	39.2	3.83	2.01	May. 26, 2021	2450	24.30	1.27	25.40	4.53	737	3971	1431
S02	5250	23.4	4.713	36.082	4.71	35.9	0.06	0.51	May. 24, 2021	5250	23.00	1.26	25.20	9.57	1019	3971	1431
S03	5600	23.2	4.913	36.164	5.07	35.5	-3.10	1.87	May. 25, 2021	5600	23.30	1.18	23.60	1.29	1019	3971	1431
S04	5750	23.2	5.061	35.952	5.22	35.4	-3.05	1.56	May. 25, 2021	5750	22.40	1.13	22.60	0.89	1019	3971	1431
S05	2450	23.2	1.869	38.983	1.8	39.2	3.83	-0.55	May. 25, 2021	2450	24.30	1.31	26.20	7.82	737	3971	1431