APPENDIX F: SAR SYSTEM VALIDATION

Per FCC KDB Publication 865664 D02v01r02, SAR system validation status should be documented to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

Table F-1
SAR System Validation Summary

SAR System	Freq. (MHz)	Date	Probe SN	DAE	Probe Cal Point		Cond. (σ)	Perm. (εr)	CW VALIDATION			MOD. VALIDATION		
									SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
K2	2450	01/04/2024	7547	1322	2450	Head	1.807	38.189	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
S	2450	04/17/2024	7527	1272	2450	Head	1.775	39.374	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
O	5250	01/24/2024	7803	1533	5250	Head	4.841	36.746	PASS	PASS	PASS	OFDM	N/A	PASS
O	5600	01/24/2024	7803	1533	5600	Head	5.262	36.070	PASS	PASS	PASS	OFDM	N/A	PASS
O	5750	01/25/2024	7803	1533	5750	Head	5.385	35.445	PASS	PASS	PASS	OFDM	N/A	PASS
O	5850	01/25/2024	7803	1533	5850	Head	5.508	35.272	PASS	PASS	PASS	OFDM	N/A	PASS
R	6500	02/12/2024	7410	1638	6500	Head	6.212	34.041	PASS	PASS	PASS	OFDM	N/A	PASS

NOTE: The probes have been calibrated for both CW and modulated signals. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to FCC KDB Publication 865664 D01v01r04.