APPENDIX E: 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 *E*-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
AM14	13	06/20/2024	3746	1237	13	Head	0.725	54.287	PASS	PASS	PASS	N/A	N/A	N/A
AM13	2450	06/03/2024	7682	1683	2450	Head	1.759	40.066	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM1	5250	10/23/2023	3949	1684	5250	Head	4.491	35.603	PASS	PASS	PASS	OFDM	N/A	PASS
AM9	5250	11/14/2023	3746	1237	5250	Head	4.523	36.656	PASS	PASS	PASS	OFDM	N/A	PASS
AM8	5250	03/07/2024	7427	467	5250	Head	4.531	34.633	PASS	PASS	PASS	OFDM	N/A	PASS
AM1	5600	10/23/2023	3949	1684	5600	Head	4.883	34.987	PASS	PASS	PASS	OFDM	N/A	PASS
AM9	5600	11/15/2023	3746	1237	5600	Head	4.925	36.045	PASS	PASS	PASS	OFDM	N/A	PASS
AM8	5600	03/07/2024	7427	467	5600	Head	4.917	33.974	PASS	PASS	PASS	OFDM	N/A	PASS
AM1	5750	10/23/2023	3949	1684	5750	Head	5.056	34.698	PASS	PASS	PASS	OFDM	N/A	PASS
AM9	5750	11/15/2023	3746	1237	5750	Head	5.104	35.790	PASS	PASS	PASS	OFDM	N/A	PASS
AM8	5750	03/07/2024	7427	467	5750	Head	5.101	33.741	PASS	PASS	PASS	OFDM	N/A	PASS
AM1	5850	10/23/2023	3949	1684	5850	Head	5.115	34.636	PASS	PASS	PASS	OFDM	N/A	PASS
AM9	5850	11/15/2023	3746	1237	5850	Head	5.159	35.689	PASS	PASS	PASS	OFDM	N/A	PASS
AM8	5850	03/07/2024	7427	467	5850	Head	5.208	33.577	PASS	PASS	PASS	OFDM	N/A	PASS
AM11	6500	05/01/2024	7532	501	6500	Head	5.796	33.600	PASS	PASS	PASS	OFDM	N/A	PASS
AM11	8000	06/27/2024	7532	501	8000	Head	7.822	31.466	PASS	PASS	PASS	N/A	N/A	N/A

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.