

APPENDIX G: 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 G-1
SAR System Validation Summary

SAR System	Freq. (MHz)	Date	Probe SN	DAE	Probe Cal Point		Cond. (σ)	Perm. (ε _r)	CW VALIDATION			MOD. VALIDATION		
									SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
G	13	01/13/2025	7551	1323	13	Head	0.720	52.940	PASS	PASS	PASS	N/A	N/A	N/A
K6	750	06/04/2024	7402	1502	750	Head	0.893	42.755	PASS	PASS	PASS	N/A	N/A	N/A
K3	750	11/11/2024	7558	1364	750	Head	0.893	41.162	PASS	PASS	PASS	N/A	N/A	N/A
K4	750	01/06/2025	7547	1322	750	Head	0.882	43.290	PASS	PASS	PASS	N/A	N/A	N/A
K6	835	06/04/2024	7402	1502	835	Head	0.925	42.496	PASS	PASS	PASS	GMSK	PASS	N/A
K4	835	01/06/2025	7547	1322	835	Head	0.907	43.012	PASS	PASS	PASS	GMSK	PASS	N/A
L	1750	06/14/2024	7660	1678	1750	Head	1.356	41.660	PASS	PASS	PASS	N/A	N/A	N/A
K3	1750	11/11/2024	7558	1364	1750	Head	1.309	39.382	PASS	PASS	PASS	N/A	N/A	N/A
L	1900	06/20/2024	7660	1678	1900	Head	1.437	40.448	PASS	PASS	PASS	GMSK	PASS	N/A
K3	1900	11/11/2024	7558	1364	1900	Head	1.387	39.299	PASS	PASS	PASS	GMSK	PASS	N/A
K4	1900	01/03/2025	7547	1322	1900	Head	1.435	38.252	PASS	PASS	PASS	GMSK	PASS	N/A
P	2300	02/03/2025	7571	859	2300	Head	1.733	39.676	PASS	PASS	PASS	N/A	N/A	N/A
O	2450	06/05/2024	3914	728	2450	Head	1.827	37.860	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
P	2450	02/03/2025	7571	859	2450	Head	1.851	39.417	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
O	2600	06/05/2024	3914	728	2600	Head	1.937	37.677	PASS	PASS	PASS	TDD	PASS	N/A
P	2600	02/03/2025	7571	859	2600	Head	1.972	39.145	PASS	PASS	PASS	TDD	PASS	N/A
E	3500	07/31/2024	7409	1334	3500	Head	2.804	39.460	PASS	PASS	PASS	TDD	PASS	N/A
K4	3500	01/07/2025	7547	1322	3500	Head	2.876	36.555	PASS	PASS	PASS	TDD	PASS	N/A
K2	3500	01/16/2025	7491	1532	3500	Head	2.778	38.973	PASS	PASS	PASS	TDD	PASS	N/A
E	3700	07/31/2024	7409	1334	3700	Head	2.994	39.120	PASS	PASS	PASS	TDD	PASS	N/A
K4	3700	01/07/2025	7547	1322	3700	Head	3.047	36.312	PASS	PASS	PASS	TDD	PASS	N/A
K2	3700	01/16/2025	7491	1532	3700	Head	2.969	38.632	PASS	PASS	PASS	TDD	PASS	N/A
K4	3900	01/07/2025	7547	1322	3900	Head	3.178	35.993	PASS	PASS	PASS	TDD	PASS	N/A
S	5250	07/19/2024	7803	1583	5250	Head	4.685	35.198	PASS	PASS	PASS	OFDM	N/A	PASS
G	5250	01/09/2025	7551	1323	5250	Head	4.567	35.284	PASS	PASS	PASS	OFDM	N/A	PASS
S	5600	07/19/2024	7803	1583	5600	Head	5.085	34.550	PASS	PASS	PASS	OFDM	N/A	PASS
G	5600	01/20/2025	7551	1323	5600	Head	4.959	34.438	PASS	PASS	PASS	OFDM	N/A	PASS
S	5750	07/19/2024	7803	1583	5750	Head	5.262	34.250	PASS	PASS	PASS	OFDM	N/A	PASS
G	5750	01/20/2025	7551	1323	5750	Head	5.142	34.172	PASS	PASS	PASS	OFDM	N/A	PASS
S	5850	07/19/2024	7803	1583	5850	Head	5.380	34.060	PASS	PASS	PASS	OFDM	N/A	PASS
G	5850	01/20/2025	7551	1323	5850	Head	5.255	34.004	PASS	PASS	PASS	OFDM	N/A	PASS
R	6500	07/18/2024	7527	1272	6500	Head	6.102	34.582	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.

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DUT Type: Portable Handset		APPENDIX G: Page 1 of 1