

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 - Head**

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	2/28/2023	7417	665	13	Head	0.745	55.517	PASS	PASS	PASS	N/A	N/A	N/A
K5	750	6/7/2023	7637	1652	750	Head	0.878	42.335	PASS	PASS	PASS	N/A	N/A	N/A
S	835	2/17/2023	7713	1530	835	Head	0.906	40.398	PASS	PASS	PASS	GMSK	PASS	N/A
K4	835	3/7/2023	7640	1645	835	Head	0.929	42.096	PASS	PASS	PASS	GMSK	PASS	N/A
S	1750	2/20/2023	7713	1530	1750	Head	1.334	38.727	PASS	PASS	PASS	N/A	N/A	N/A
G	1750	3/1/2023	7417	665	1750	Head	1.391	42.032	PASS	PASS	PASS	N/A	N/A	N/A
C	1750	6/30/2023	7661	728	1750	Head	1.334	38.293	PASS	PASS	PASS	N/A	N/A	N/A
L	1900	8/10/2022	7410	1583	1900	Head	1.460	40.503	PASS	PASS	PASS	GMSK	PASS	N/A
D	1900	12/1/2022	7551	1323	1900	Head	1.395	38.468	PASS	PASS	PASS	GMSK	PASS	N/A
S	1900	2/17/2023	7713	1530	1900	Head	1.410	38.557	PASS	PASS	PASS	GMSK	PASS	N/A
K3	2450	12/6/2022	7547	1322	2450	Head	1.786	37.965	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
O	2450	2/8/2023	7570	1558	2450	Head	1.839	38.743	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
K2	2450	2/21/2023	7565	1466	2450	Head	1.817	39.941	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
K3	2600	12/6/2022	7547	1322	2600	Head	1.904	37.727	PASS	PASS	PASS	TDD	PASS	N/A
O	2600	2/8/2023	7570	1558	2600	Head	1.960	38.481	PASS	PASS	PASS	TDD	PASS	N/A
S	2600	3/17/2023	7713	1530	2600	Head	1.882	38.559	PASS	PASS	PASS	TDD	PASS	N/A
K2	5250	2/21/2023	7565	1466	5250	Head	4.595	36.389	PASS	PASS	PASS	OFDM	N/A	PASS
K2	5600	2/21/2023	7565	1466	5600	Head	4.988	35.767	PASS	PASS	PASS	OFDM	N/A	PASS
K2	5750	2/21/2023	7565	1466	5750	Head	5.167	35.517	PASS	PASS	PASS	OFDM	N/A	PASS
K2	5800	2/21/2023	7565	1466	5850	Head	5.220	35.422	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