

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	02/28/2023	7417	665	13	Head	0.745	55.517	PASS	PASS	PASS	N/A	N/A	N/A
O	750	02/07/2023	7570	1558	750	Head	0.851	42.807	PASS	PASS	PASS	N/A	N/A	N/A
K4	750	03/07/2023	7640	1645	750	Head	0.897	42.373	PASS	PASS	PASS	N/A	N/A	N/A
K5	750	06/07/2023	7637	1652	750	Head	0.878	42.335	PASS	PASS	PASS	N/A	N/A	N/A
K4	835	03/07/2023	7640	1645	835	Head	0.929	42.096	PASS	PASS	PASS	GMSK	PASS	N/A
K5	835	06/08/2023	7637	1652	835	Head	0.911	42.522	PASS	PASS	PASS	GMSK	PASS	N/A
K1	835	07/10/2023	7402	1502	835	Head	0.897	43.370	PASS	PASS	PASS	GMSK	PASS	N/A
O	1750	02/07/2023	7570	1558	1750	Head	1.349	40.691	PASS	PASS	PASS	N/A	N/A	N/A
S	1750	02/20/2023	7713	1530	1750	Head	1.334	38.727	PASS	PASS	PASS	N/A	N/A	N/A
G	1750	03/01/2023	7417	665	1750	Head	1.391	42.032	PASS	PASS	PASS	N/A	N/A	N/A
C	1750	06/30/2023	7661	728	1750	Head	1.334	38.293	PASS	PASS	PASS	N/A	N/A	N/A
L	1750	07/05/2023	7409	1334	1750	Head	1.313	40.692	PASS	PASS	PASS	N/A	N/A	N/A
L	1900	08/10/2022	7410	1583	1900	Head	1.460	40.503	PASS	PASS	PASS	GMSK	PASS	N/A
O	2450	02/08/2023	7570	1558	2450	Head	1.839	38.743	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM3	2600	02/07/2023	3837	793	2600	Head	1.920	37.268	PASS	PASS	PASS	TDD	PASS	N/A
O	2600	02/08/2023	7570	1558	2600	Head	1.960	38.481	PASS	PASS	PASS	TDD	PASS	N/A
AM2	2600	03/28/2023	7308	467	2600	Head	1.918	38.733	PASS	PASS	PASS	TDD	PASS	N/A
AM3	3500	02/08/2023	3837	793	3500	Head	2.807	39.033	PASS	PASS	PASS	TDD	PASS	N/A
AM6	3500	05/24/2023	7638	1408	3500	Head	2.794	39.657	PASS	PASS	PASS	TDD	PASS	N/A
AM3	3700	02/09/2023	3837	793	3700	Head	3.003	38.691	PASS	PASS	PASS	TDD	PASS	N/A
AM6	3700	05/25/2023	7638	1408	3700	Head	2.991	39.276	PASS	PASS	PASS	TDD	PASS	N/A
AM3	3900	02/09/2023	3837	793	3900	Head	3.209	38.360	PASS	PASS	PASS	TDD	PASS	N/A
AM6	3900	05/25/2023	7638	1408	3900	Head	3.196	38.927	PASS	PASS	PASS	TDD	PASS	N/A
O	5250	02/16/2023	7570	1558	5250	Head	4.531	35.226	PASS	PASS	PASS	OFDM	N/A	PASS
O	5600	02/16/2023	7570	1558	5600	Head	4.926	34.639	PASS	PASS	PASS	OFDM	N/A	PASS
O	5750	02/16/2023	7570	1558	5750	Head	5.077	34.397	PASS	PASS	PASS	OFDM	N/A	PASS
O	5800	02/20/2023	7570	1558	5850	Head	5.237	33.586	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