

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	Probe Cal Point		Cond. (σ)	Perm. (ϵ_r)	CW VALIDATION			MOD. VALIDATION		
								SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
L	1750	08/05/2022	7410	1750	Body	1.458	54.375	PASS	PASS	PASS	N/A	N/A	N/A
C	1750	08/16/2022	7406	1750	Body	1.460	53.454	PASS	PASS	PASS	N/A	N/A	N/A
J	1900	02/17/2022	7570	1900	Body	1.578	53.899	PASS	PASS	PASS	GMSK	PASS	N/A
S	1900	08/02/2022	7488	1900	Body	1.532	50.829	PASS	PASS	PASS	GMSK	PASS	N/A
P	2300	08/02/2022	7409	2300	Body	1.797	52.198	PASS	PASS	PASS	N/A	N/A	N/A
L	2450	08/08/2022	7410	2450	Body	2.042	53.429	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
G	2450	08/10/2022	7527	2450	Body	1.924	51.428	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
L	2600	08/08/2022	7410	2600	Body	2.190	53.159	PASS	PASS	PASS	TDD	PASS	N/A
G	2600	08/10/2022	7527	2600	Body	2.064	51.243	PASS	PASS	PASS	TDD	PASS	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.

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