

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	05/06/2025	7539	1415	13	Head	0.718	53.401	PASS	PASS	PASS	N/A	N/A	N/A
O	750	07/23/2025	7718	1407	750	Head	0.883	42.967	PASS	PASS	PASS	N/A	N/A	N/A
R	750	08/27/2025	7570	1638	750	Head	0.869	42.002	PASS	PASS	PASS	N/A	N/A	N/A
J	750	10/08/2025	7660	1678	750	Head	0.874	42.605	PASS	PASS	PASS	N/A	N/A	N/A
R	835	03/04/2025	7570	1638	835	Head	0.891	43.545	PASS	PASS	PASS	GMSK	PASS	N/A
L	835	05/01/2025	7659	1272	835	Head	0.920	40.468	PASS	PASS	PASS	GMSK	PASS	N/A
G	835	06/04/2025	7488	1415	835	Head	0.898	40.223	PASS	PASS	PASS	GMSK	PASS	N/A
E	835	06/12/2025	7660	1678	835	Head	0.931	41.227	PASS	PASS	PASS	GMSK	PASS	N/A
O	835	07/23/2025	7718	1407	835	Head	0.916	42.748	PASS	PASS	PASS	GMSK	PASS	N/A
N	1750	02/05/2025	7410	1213	1750	Head	1.340	38.895	PASS	PASS	PASS	N/A	N/A	N/A
L	1750	06/02/2025	7659	1272	1750	Head	1.341	39.242	PASS	PASS	PASS	N/A	N/A	N/A
M	1750	08/20/2025	7713	1530	1750	Head	1.348	39.305	PASS	PASS	PASS	N/A	N/A	N/A
N	1900	01/23/2025	7410	1213	1900	Head	1.467	39.470	PASS	PASS	PASS	GMSK	PASS	N/A
L	1900	06/02/2025	7659	1272	1900	Head	1.341	39.242	PASS	PASS	PASS	GMSK	PASS	N/A
M	1900	08/20/2025	7713	1530	1900	Head	1.432	39.046	PASS	PASS	PASS	GMSK	PASS	N/A
G	2450	04/09/2025	7488	1415	2450	Head	1.867	39.580	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
L	2450	04/29/2025	7659	1272	2450	Head	1.860	39.106	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
O	2450	05/01/2025	7718	1407	2450	Head	1.766	40.858	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
S3	2450	09/05/2025	7640	1645	2450	Head	1.784	40.207	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
S3	2600	09/08/2025	7640	1645	2600	Head	1.917	40.388	PASS	PASS	PASS	TDD	PASS	N/A
S4	2600	09/26/2025	7491	1466	2600	Head	1.906	39.469	PASS	PASS	PASS	TDD	PASS	N/A
L	3500	07/24/2025	7659	1272	3500	Head	2.793	38.969	PASS	PASS	PASS	TDD	PASS	N/A
J	3500	09/12/2025	7660	1678	3500	Head	2.785	38.330	PASS	PASS	PASS	TDD	PASS	N/A
L	3700	07/24/2025	7659	1272	3700	Head	2.987	38.627	PASS	PASS	PASS	TDD	PASS	N/A
J	3700	09/12/2025	7660	1678	3700	Head	2.980	37.992	PASS	PASS	PASS	TDD	PASS	N/A
L	3900	07/24/2025	7659	1272	3900	Head	3.190	38.309	PASS	PASS	PASS	TDD	PASS	N/A
J	3900	09/12/2025	7660	1678	3900	Head	3.169	37.699	PASS	PASS	PASS	TDD	PASS	N/A
S5	5250	09/22/2025	7546	1368	5250	Head	4.588	36.094	PASS	PASS	PASS	OFDM	N/A	PASS
S5	5600	09/22/2025	7546	1368	5600	Head	4.588	36.094	PASS	PASS	PASS	OFDM	N/A	PASS
S5	5750	09/22/2025	7546	1368	5750	Head	5.228	35.078	PASS	PASS	PASS	OFDM	N/A	PASS
S5	5850	09/22/2025	7546	1368	5850	Head	5.331	34.861	PASS	PASS	PASS	OFDM	N/A	PASS
R	6500	02/27/2025	7570	1638	6500	Head	5.868	34.355	PASS	PASS	PASS	OFDM	N/A	PASS
R	8000	03/29/2025	7570	1638	8000	Head	7.384	31.711	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.

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