

## 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. (εr)	CW VALIDATION			MOD. VALIDATION		
									SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
AM14	13	9/30/2024	7308	534	13	Head	0.728	53.406	PASS	PASS	PASS	N/A	N/A	N/A
AM8	750	4/2/2024	7427	467	750	Head	0.855	41.193	PASS	PASS	PASS	N/A	N/A	N/A
AM4	750	8/20/2024	7357	1582	750	Head	0.869	41.332	PASS	PASS	PASS	N/A	N/A	N/A
AM4	835	8/20/2024	7357	1582	835	Head	0.896	41.084	PASS	PASS	PASS	GMSK	PASS	N/A
J	835	8/27/2024	7406	1677	835	Head	0.903	42.224	PASS	PASS	PASS	GMSK	PASS	N/A
K3	835	9/10/2024	7491	1532	835	Head	0.934	40.998	PASS	PASS	PASS	GMSK	PASS	N/A
K3	835	9/30/2024	7558	1364	835	Head	0.894	43.165	PASS	PASS	PASS	GMSK	PASS	N/A
K4	1750	3/26/2024	7565	1466	1750	Head	1.354	40.783	PASS	PASS	PASS	N/A	N/A	N/A
O	1750	6/24/2024	3914	728	1750	Head	1.371	40.079	PASS	PASS	PASS	N/A	N/A	N/A
E	1750	6/28/2024	7409	1334	1750	Head	1.361	39.081	PASS	PASS	PASS	N/A	N/A	N/A
S	1750	7/26/2024	7803	1583	1750	Head	1.388	40.721	PASS	PASS	PASS	N/A	N/A	N/A
K4	1900	3/26/2024	7565	1466	1900	Head	1.445	40.596	PASS	PASS	PASS	GMSK	PASS	N/A
P	1900	5/15/2024	7718	665	1900	Head	1.414	39.331	PASS	PASS	PASS	GMSK	PASS	N/A
O	1900	6/24/2024	3914	728	1900	Head	1.422	38.667	PASS	PASS	PASS	GMSK	PASS	N/A
E	1900	7/3/2024	7409	1334	1900	Head	1.424	38.587	PASS	PASS	PASS	GMSK	PASS	N/A
S	1900	7/30/2024	7803	1583	1900	Head	1.434	40.679	PASS	PASS	PASS	GMSK	PASS	N/A
K3	2450	10/4/2024	7558	1364	2450	Head	1.779	37.706	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
K2	2450	9/25/2024	7640	1645	2450	Head	1.829	37.998	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
K2	2600	8/28/2024	7637	1652	2600	Head	1.927	37.705	PASS	PASS	PASS	TDD	PASS	N/A
K2	2600	9/25/2024	7640	1645	2600	Head	1.953	37.739	PASS	PASS	PASS	TDD	PASS	N/A
K4	3500	2/1/2024	7565	1466	3500	Head	2.779	37.929	PASS	PASS	PASS	TDD	PASS	N/A
K4	3700	2/2/2024	7565	1466	3700	Head	3.019	38.076	PASS	PASS	PASS	TDD	PASS	N/A
K4	3900	2/2/2024	7565	1466	3900	Head	3.224	37.740	PASS	PASS	PASS	TDD	PASS	N/A
K6	5250	6/3/2024	7402	1502	5250	Head	4.557	35.833	PASS	PASS	PASS	OFDM	N/A	PASS
K6	5600	6/3/2024	7402	1502	5600	Head	4.937	35.241	PASS	PASS	PASS	OFDM	N/A	PASS
K6	5750	6/3/2024	7402	1502	5750	Head	5.109	34.996	PASS	PASS	PASS	OFDM	N/A	PASS
K6	5850	6/3/2024	7402	1502	5850	Head	5.229	34.867	PASS	PASS	PASS	OFDM	N/A	PASS
AM7	6500	4/10/2024	7421	604	6500	Head	6.005	33.656	PASS	PASS	PASS	OFDM	N/A	PASS
R	6500	7/18/2024	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