

APPENDIX D: SAR SYSTEM VALIDATION

FCC ID: BCGA2435	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Tablet Device		APPENDIX: D Page 1 of 2

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 D-1
SAR System Validation Summary – 1g

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
AM9	750	4/11/2022	7638	750 Head	0.877	43.443	PASS	PASS	PASS	N/A	N/A	N/A
AM12	750	6/8/2022	7499	750 Head	0.874	43.491	PASS	PASS	PASS	N/A	N/A	N/A
AM14	835	6/10/2022	7674	835 Head	0.931	43.41	PASS	PASS	PASS	GMSK	PASS	N/A
AM2	1750	4/18/2022	7421	1750 Head	1.327	41.049	PASS	PASS	PASS	N/A	N/A	N/A
AM8	1750	6/1/2022	7546	1750 Head	1.379	38.927	PASS	PASS	PASS	N/A	N/A	N/A
AM13	1750	6/21/2022	7360	1750 Head	1.404	38.836	PASS	PASS	PASS	N/A	N/A	N/A
AM6	1900	6/8/2022	7532	1900 Head	1.451	40.772	PASS	PASS	PASS	GMSK	PASS	N/A
AM4	2300	3/11/2022	3837	2300 Head	1.69	40.002	PASS	PASS	PASS	N/A	N/A	N/A
AM4	2450	3/11/2022	3837	2450 Head	1.8	39.784	PASS	PASS	PASS	D	PASS	PASS
AM3	2450	4/4/2022	7427	2450 Head	1.807	39.52	PASS	PASS	PASS	D	PASS	PASS
AM10	2450	6/2/2022	7308	2450 Head	1.882	38.829	PASS	PASS	PASS	D	PASS	PASS
AM11	2450	6/8/2022	7420	2450 Head	1.88	39.5	PASS	PASS	PASS	D	PASS	PASS
AM7	2450	6/8/2022	7416	2450 Head	1.815	38.495	PASS	PASS	PASS	D	PASS	PASS
AM4	2600	3/25/2022	3837	2600 Head	1.955	39.728	PASS	PASS	PASS	TDD	PASS	N/A
AM11	2600	6/8/2022	7420	2600 Head	2.05	38.935	PASS	PASS	PASS	TDD	PASS	N/A
AM7	2600	6/8/2022	7416	2600 Head	1.99	37.865	PASS	PASS	PASS	TDD	PASS	N/A
AM1	3500	2/21/2022	7639	3500 Head	2.772	38.754	PASS	PASS	PASS	TDD	PASS	N/A
AM7	3500	6/18/2022	7416	3500 Head	2.865	36.23	PASS	PASS	PASS	TDD	PASS	N/A
AM1	3700	2/21/2022	7639	3700 Head	2.97	38.397	PASS	PASS	PASS	TDD	PASS	N/A
AM7	3700	6/18/2022	7416	3700 Head	3.022	35.958	PASS	PASS	PASS	TDD	PASS	N/A
AM7	3900	6/18/2022	7416	3900 Head	3.198	35.716	PASS	PASS	PASS	TDD	PASS	N/A
AM9	5250	4/12/2022	7638	5250 Head	4.606	35.527	PASS	PASS	PASS	OFDM	N/A	PASS
AM9	5600	4/12/2022	7638	5600 Head	5.018	34.95	PASS	PASS	PASS	OFDM	N/A	PASS
AM9	5750	4/12/2022	7638	5750 Head	5.19	34.628	PASS	PASS	PASS	OFDM	N/A	PASS

NOTE: 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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