

## APPENDIX D: SAR SYSTEM VALIDATION

FCC ID: BCG-A2774	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Watch		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. 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. ( $\sigma$ )	Perm. ( $\epsilon_r$ )	CW VALIDATION			MOD. VALIDATION		
							Sensitivity	Probe Linearity	Probe Isotropy	Mod. Type	Duty Factor	Par
AM3	750	03/30/2022	7427	750	Head	0.884	41.319	PASS	PASS	PASS	N/A	N/A
AM12	750	06/08/2022	7499	750	Head	0.874	43.491	PASS	PASS	PASS	N/A	N/A
AM14	835	06/10/2022	7674	835	Head	0.931	43.410	PASS	PASS	PASS	GMSK	PASS
AM5	835	07/22/2022	7490	835	Head	0.942	40.191	PASS	PASS	PASS	GMSK	PASS
AM1	1750	02/24/2022	7639	1750	Head	1.305	41.106	PASS	PASS	PASS	N/A	N/A
AM6	1900	06/08/2022	7532	1900	Head	1.451	40.772	PASS	PASS	PASS	GMSK	PASS
AM4	2450	03/11/2022	3837	2450	Head	1.800	39.784	PASS	PASS	PASS	OFDM/TDD	PASS
AM3	2450	04/04/2022	7427	2450	Head	1.807	39.520	PASS	PASS	PASS	OFDM/TDD	PASS
AM2	2450	04/14/2022	7421	2450	Head	1.800	40.275	PASS	PASS	PASS	OFDM/TDD	PASS
AM10	2450	06/02/2022	7308	2450	Head	1.882	38.829	PASS	PASS	PASS	OFDM/TDD	PASS
AM4	2600	03/25/2022	3837	2600	Head	1.955	39.728	PASS	PASS	PASS	TDD	PASS
AM10	2600	06/02/2022	7308	2600	Head	2.058	38.219	PASS	PASS	PASS	TDD	PASS
AM9	5250	04/12/2022	7638	5250	Head	4.606	35.527	PASS	PASS	PASS	OFDM	N/A
AM9	5600	04/12/2022	7638	5600	Head	5.018	34.950	PASS	PASS	PASS	OFDM	N/A
AM9	5750	04/12/2022	7638	5750	Head	5.190	34.628	PASS	PASS	PASS	OFDM	N/A

**Table D-2**  
**SAR System Validation Summary – 10g**

SAR System	Freq. (MHz)	Date	Probe SN	Probe Cal Point	Cond. ( $\sigma$ )	Perm. ( $\epsilon_r$ )	CW VALIDATION			MOD. VALIDATION		
							Sensitivity	Probe Linearity	Probe Isotropy	Mod. Type	Duty Factor	Par
AM3	750	03/30/2022	7427	750	Head	0.884	41.319	PASS	PASS	PASS	N/A	N/A
AM12	750	06/08/2022	7499	750	Head	0.874	43.491	PASS	PASS	PASS	N/A	N/A
AM14	835	06/10/2022	7674	835	Head	0.931	43.410	PASS	PASS	PASS	GMSK	PASS
AM5	835	07/22/2022	7490	835	Head	0.942	40.191	PASS	PASS	PASS	GMSK	PASS
AM13	1750	06/21/2022	7360	1750	Head	1.404	38.836	PASS	PASS	PASS	N/A	N/A
AM6	1900	06/08/2022	7532	1900	Head	1.451	40.772	PASS	PASS	PASS	GMSK	PASS
AM4	2450	03/11/2022	3837	2450	Head	1.800	39.784	PASS	PASS	PASS	OFDM/TDD	PASS
AM3	2450	04/04/2022	7427	2450	Head	1.807	39.520	PASS	PASS	PASS	OFDM/TDD	PASS
AM10	2450	06/02/2022	7308	2450	Head	1.882	38.829	PASS	PASS	PASS	OFDM/TDD	PASS
AM4	2600	03/25/2022	3837	2600	Head	1.955	39.728	PASS	PASS	PASS	TDD	PASS
AM10	2600	06/02/2022	7308	2600	Head	2.058	38.219	PASS	PASS	PASS	TDD	PASS
AM9	5250	04/12/2022	7638	5250	Head	4.606	35.527	PASS	PASS	PASS	OFDM	N/A
AM9	5600	04/12/2022	7638	5600	Head	5.018	34.950	PASS	PASS	PASS	OFDM	N/A
AM9	5750	04/12/2022	7638	5750	Head	5.190	34.628	PASS	PASS	PASS	OFDM	N/A

NOTE: While 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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