

## APPENDIX C: 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 C-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
							PASS	PASS	PASS	N/A	N/A	N/A
M	750	6/21/2021	7570	750 Body	0.972	53.45	PASS	PASS	PASS	GMSK	PASS	N/A
N	835	6/24/2021	7417	835 Body	1.014	53.171	PASS	PASS	PASS	GMSK	PASS	N/A
M	835	6/21/2021	7570	835 Body	0.951	52.961	PASS	PASS	PASS	GMSK	PASS	N/A
N	1750	6/24/2021	7417	1750 Body	1.513	51.474	PASS	PASS	PASS	N/A	N/A	N/A
M	1900	6/21/2021	7570	1900 Body	1.583	52.407	PASS	PASS	PASS	GMSK	PASS	N/A
M	2600	6/22/2021	7570	2600 Body	2.103	51.648	PASS	PASS	PASS	TDD	PASS	N/A

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.

FCC ID: CK31995	 <b>PCTEST</b> Proud to be part of  PART 2 RF EXPOSURE EVALUATION REPORT	Microsoft	Approved by: Quality Manager
Test Dates: 07/26/2021-09/01/2021	DUT Type: Portable Handset		APPENDIX C: Page 1 of 1