

APPENDIX F: POWER REDUCTION VERIFICATION

FCC ID: BCGA2589	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Tablet Device		APPENDIX F Page 1 of 2

The device supports manufacturer’s proprietary power reduction mechanism called “Detect Mode” for the Main Cellular Antenna. Details of this mechanism can be found in the Operational Description. When the device is being used “on-body” or “held in hand” by the user, the device will detect motion and reduce the power of the main antenna. Per the manufacturer, the mechanism is agnostic to different cellular air interfaces. Detect Mode operation was verified for two test cases, on-body and held in hand, for each supported cellular band. The power reduction verification results are below.

1.1 Main Antenna Power Verification Summary

**Table F-1
Main Antenna Power Verification**

Mode/Band	Antenna	Maximum Scenario Maximum Allowed Target Power [dBm]	Mode			Verdict
			Free Body Space	Test Case 1	Test Case 2	
NR n48	Antenna 1b	22.00 (+ 0.7/ - 1.0)	21.05*	DSI 1^	DSI 1^	PASS
	Antenna 2b	20.50 (+ 0.7/ - 1.0)	19.60*	DSI 1^	DSI 1^	PASS
	Antenna 3b	19.10 (+ 0.7/ - 1.0)	19.18*	DSI 1^	DSI 1^	PASS
	Antenna 4	17.70 (+ 0.7/ - 1.0)	17.73*	DSI 1^	DSI 1^	PASS

Test Case 1: Device Held in Hand

Test Case 2: Device Resting on Lap

* No Smart Transmission behavior was observed during the measurement.

^ Smart Transmission behavior was observed during the measurement.

Test Cases represent typical scenarios in which the device power would be reduced. In these scenarios detect mode has been verified to identify typical on-body use-cases including when thin objects, such as a magazine or newspaper are placed between the body and the device. In the absence of detect mode output, the device defaults to the most conservative power.

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