




## APPENDIX G: POWER REDUCTION VERIFICATION

Per the May 2017 TCBC Workshop Notes, demonstration of proper functioning of the power reduction mechanisms is required to support the corresponding SAR configurations. The verification process was divided into two parts: (1) evaluation of output power levels for individual or multiple triggering mechanisms and (2) evaluation of the triggering distances for proximity-based sensors.

### G.1 Power Verification Procedure

The power verification was performed according to the following procedure:



1. A base station simulator was used to establish a conducted RF connection and the output power was monitored. For licensed modes, the device state index as displayed on the device UI was recorded before and after the mechanism was triggered.
2. Step 1 was repeated for all relevant modes and frequency bands for the mechanism being investigated.
3. Steps 1 and 2 were repeated for all individual power reduction mechanisms and combinations thereof. For the combination cases, one mechanism was switched to a 'triggered' state at a time; powers were confirmed to be within tolerances after each additional mechanism was activated.

<b>FCC ID</b> A3LSMS901E	 <b>PCTEST</b> <small>Proud to be part of </small>	<b>SAR EVALUATION REPORT</b>		<b>Approved by:</b> Quality Manager
<b>Test Dates:</b> 02/16/22 – 03/07/22	<b>DUT Type:</b> Portable Handset			APPENDIX G: Page 1 of 2

## G.2 Main Antenna Verification Summary

**Table G-1  
Power Measurement Verification for Main Antenna**

Mechanism(s)		Mode/Band	Device State Index (DSI)		
1st	2nd		Un-triggered (Max)	Mechanism #1 (Reduced)	Mechanism #2 (Reduced)
Hotspot On		GPRS 1900 1 Tx Slot	0	3	
Grip		GPRS 1900 1 Tx Slot	0	1	
Hotspot On	Grip	GPRS 1900 1 Tx Slot	0	3	3
Grip	Hotspot On	GPRS 1900 1 Tx Slot	0	1	3
Hotspot On		LTE Band 41 PC3	0	3	
Grip		LTE Band 41 PC3	0	1	
Hotspot On	Grip	LTE Band 41 PC3	0	3	3
Grip	Hotspot On	LTE Band 41 PC3	0	1	3
Hotspot On		LTE Band 41 PC2	0	3	
Grip		LTE Band 41 PC2	0	1	
Hotspot On	Grip	LTE Band 41 PC2	0	3	3
Grip	Hotspot On	LTE Band 41 PC2	0	1	3
Hotspot On		NR FDD Band n2	0	3	
Grip		NR FDD Band n2	0	1	
Hotspot On	Grip	NR FDD Band n2	0	3	3
Grip	Hotspot On	NR FDD Band n2	0	1	3
Hotspot On		NR FDD Band n25	0	3	
Grip		NR FDD Band n25	0	1	
Hotspot On	Grip	NR FDD Band n25	0	3	3
Grip	Hotspot On	NR FDD Band n25	0	1	3
Held-to-Ear		NR TDD Band n77 Ant G	0	2	
Held-to-Ear		NR TDD Band n77 Ant H	0	2	
Held-to-Ear		NR TDD Band n77 DoD Ant G	0	2	
Held-to-Ear		NR TDD Band n77 DoD Ant H	0	2	

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