

## POWER REDUCTION VERIFICATION

This 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.

The verification plan consists of two parts.

- Verification of the detect mechanism
- Verification of the power reduction levels

The verification plan for the overall power setting is proposed to follow the Table 1 below.

### A. Verification of the detect mechanism

Body detect verification will be done with following test cases.

- In-hand
- On-lap with little or no voluntary movement
- On a stationary object

### B. Verification of power reduction levels

Table 1 lists the test plan. Since the reduction mechanism is antenna agnostic all tests will be conducted by locking transmission to one antenna and then verifying power.

Table 1

Cellular <sup>2</sup>	Test Cases	Head Cell Table <sup>1</sup>	Body Cell Table <sup>1</sup>
	GSM 850 (2Slots)		
	GSM 1900 (2Slots)	30.75	26.30
	CDMA BC10		
	CDMA BC0		
	CDMA BC1	25.70	20.65
	WCDMA B5		
	WCDMA B4	25.70	16.90
	WCDMA B2	25.7	20.60
	LTE B12		
	LTE B13		

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	LTE B14				
	LTE B71				
	LTE B5				
	LTE B26				
	LTE B25	25.7		20.50	
	LTE B30	25.7		19.45	
	LTE B7	25.7		19.55	
	LTE B41	25.7		22.60	
	LTE B48	25.7			
Wi-Fi 1x mode, rate, channel	Test Cases	Cell <b>On</b> Head Wi-Fi Table	Cell <b>Off</b> Head Wi-Fi Table	Cell <b>On</b> Body Wi-Fi Table	Cell <b>Off</b> Body Wi-Fi Table
	2.4 GHz 11n HT20 Ch6 SISO	E: 12.5 M: 12.3	E: 16.75 M:16.6	E: 14.5 M:14.40	E: 17.75 M:17.6
	5.0 GHz 802.11n HT20 Ch40 SISO Ant6	E: 17.0 M:16.8	E: 17.5 M:17.30	E: 11.25 M:11.10	E: 15.5 M:15.20

BT EDR, Hopping	Test Cases	Cell <b>On</b> 5GHz <b>On</b> Head <b>Plow</b> mode A BT Table P <sub>1</sub>	Cell <b>On</b> 5GHz <b>Off</b> Head <b>PHigh</b> mode A BT Table P <sub>3</sub>	Cell <b>Off</b> 5GHz <b>On</b> Head <b>PHigh</b> mode A BT Table P <sub>5</sub>	Cell <b>Off</b> 5GHz <b>Off</b> Head <b>PStandalone</b> BT Table P <sub>7</sub>	Cell <b>On</b> 5GHz <b>On</b> Body <b>Plow</b> mode B BT Table P <sub>2</sub>	Cell <b>On</b> 5GHz <b>Off</b> Body <b>PHigh</b> mode B BT Table P <sub>4</sub>	Cell <b>Off</b> 5GHz <b>On</b> Body <b>PHigh</b> mode B BT Table P <sub>6</sub>	Cell <b>Off</b> 5GHz <b>Off</b> Body <b>PStandalone</b> BT Table P <sub>8</sub>
	Ch 39	E: 7.0 M: 6.8	E: 11.0 M: 10.7	E: 11.0 M: 10.8	E: 14.5 M: 14.4	E: 8.0 M: 8.6	E: 12.0 M: 11.9	E: 12.0 M: 11.6	E: 14.5 M: 14.2

Notes:

1. Head test cases will be done with the device resting on table and body test cases will be done with the device in hand.
2. When there is no delta between the head cell table and body cell table within a test case, we will exclude that test case.
3. CDMA BC10 and LTE Band 26/48 are not supported in Canada.