

8 CONDUCTED RF OUPUT POWER

8.1	LoRa Output Power
8.2	Bluetooth
8.2.1	Bluetooth Output Power
8.2.2	Bluetooth Duty Cycle

8.1 LoRa Output Power

LoRa-Ant.0						
LoRa	Mode	Channal	Frequency (MHz)	AV power (dBm)	Tune up (dBm)	SAR Test
	DTS	0	903.0	19.48	20.00	Yes
		3	907.8	19.62	20.00	Yes
		7	914.2	16.65	17.00	Yes

8.2 Bluetooth

8.2.1 Bluetooth Output Power

Bluetooth-Ant.1						
Test Mode	Modulation	Channel number	Frequency(MHz)	AV power (dBm)	Tune up (dBm))	SAR Test
BT	BLE-1M	0	2402	1.27	2.00	Yes
		19	2440	1.78	2.00	Yes
		39	2480	1.90	2.00	Yes
	BLE-2M	1	2404	1.41	2.00	No
		19	2440	1.90	2.00	No
		38	2478	1.93	2.00	No
Note: Since bluetooth BLE-1M mode is the maximum output power mode, SAR measurements were performed with test software using BLE-1M modulation, and SAR measurement is not required for the BLE-2M. When the secondary mode is ≤ ¼ dB higher than the primary mode.						

8.2.2 Bluetooth Duty Cycle

The Bluetooth duty cycle is 62.78% as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.
Duty Cycle

