

8 CONDUCTED RF OUPUT POWER

8.1	WIFI Output Power
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8.1 WIFI Output Power

WIFI2.4G						
	Mode	Channal	Frequency (MHz)	Conducted power (dBm)	Tune up (dBm)	SAR Test
2.4G	11b	1	2412	11.23	12.00	Yes
		6	2437	10.57	12.00	Yes
		11	2462	10.60	12.00	Yes
	11g	1	2412	12.17	13.00	No
		6	2437	11.29	13.00	No
		11	2462	11.95	13.00	No
	11n20	1	2412	12.30	13.00	No
		6	2437	11.42	13.00	No
		11	2462	12.20	13.00	No
	11n40	3	2422	12.09	13.00	No
		6	2437	11.65	13.00	No
		9	2452	11.94	13.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure.

2) According KDB 248227, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required

Adjusted SAR = $0.491 * (19.95\text{mW}/15.85\text{mW}) = 0.618$ W/Kg, so 2.4G OFDM SAR test is not required.

8.2 Bluetooth

8.2.1 Bluetooth Output Power

Bluetooth						
Test Mode	Modulation	Channel number	Frequency(MHz)	Conducted power (dBm)	Tune up (dBm))	SAR Test
BT	BLE1M	0	2402	6.83	8.00	Yes
		19	2440	7.18	8.00	Yes
		39	2480	7.12	8.00	Yes

8.2.2 Bluetooth Duty Cycle

The Bluetooth BLE-1M duty cycle is 84.96% 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.

