

8 CONDUCTED RF OUPUT POWER

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8.1 WIFI Output Power

8.1.1 WIFI2.4G Output Power

test Mode	Modulation	Channel number	Fre.(MHz)	AV output power(dBm)	tune up power(dBm)	SAR Test
WIFI 2.4G	11b	1	2412	12.69	13.00	Yes
		6	2437	13.37	14.00	Yes
		11	2462	14.30	15.00	Yes
	11g	1	2412	12.47	13.00	No
		6	2437	13.11	14.00	No
		11	2462	13.49	15.00	No
	HT20	1	2412	11.45	13.00	No
		6	2437	12.08	14.00	No
		11	2462	12.41	14.00	No
	HT40	3	2422	10.44	12.00	No
		6	2437	10.85	12.00	No
		9	2452	11.19	12.00	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 247228, 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 = $0.152 * (31.62\text{mW}/31.62\text{mW}) = 0.152$ W/Kg, so 2.4G OFDM SAR test is not required.

8.2 Bluetooth

8.2.1 Bluetooth Output Power

Bluetooth					
test Mode	Modulation	Fre.(MHz)	AV output power(dBm)	Tune up power(dBm)	SAR Test
BT	BLE1M	2402	2.14	3.00	No
		2440	4.05	5.00	No
		2480	5.63	6.00	No
	BLE2M	2404	2.92	3.00	Yes
		2440	4.61	5.00	Yes
		2478	6.28	7.00	Yes
Note: Since the BLE 2M mode is the maximum output power mode, SAR measurements were conducted in the test software using the BLE 2M modulation method.					

8.2.2 Bluetooth Duty Cycle

The BluetoothBLE-2M duty cycle is 100% 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 BLE-2M

