

8 CONDUCTED RF OUPUT POWER

8.1	Bluetooth
8.1.1	Bluetooth Output Power
8.1.2	Bluetooth Duty Cycle

8.1 Bluetooth

8.1.1 Bluetooth Output Power

Bluetooth-Left ear								
test Mode	Modulation	Fre.(MHz)	AV output power(dBm)		Tune up power(dBm)		SAR Test	
			Left ear	Right ear	Left ear	Right ear	Left ear	Right ear
BT	DH5	2402	15.56	15.11	16.00	16.00	Yes	Yes
		2441	15.50	15.21	16.00	16.00	Yes	Yes
		2480	15.55	15.28	16.00	16.00	Yes	Yes
	2DH5	2402	11.65	11.55	13.00	13.00	No	No
		2441	11.78	11.45	13.00	13.00	No	No
		2480	12.19	11.81	13.00	13.00	No	No
	3DH5	2402	12.22	11.60	13.00	13.00	No	No
		2441	12.20	11.46	13.00	13.00	No	No
		2480	12.07	11.80	13.00	13.00	No	No
	BLE1M	2402	7.17	7.31	8.00	8.00	Yes	Yes
		2440	7.27	7.32	8.00	8.00	Yes	Yes
		2480	7.14	7.13	8.00	8.00	Yes	Yes
	BLE2M	2404	7.13	7.33	8.00	8.00	No	No
		2440	7.24	7.30	8.00	8.00	No	No
		2478	7.16	7.09	8.00	8.00	No	No
Note: Since bluetooth BR mode is the maximum output power mode, SAR measurements were performed with test software using DH5 modulation,and SAR measurement is not required for the EDR and LE. When the secondary mode is ≤ ¼ dB higher than the primary mode.								

8.2.2 Bluetooth Duty Cycle

The Bluetooth-DH5 duty cycle is 57.67% 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



The Bluetooth-BLE 1M duty cycle is 61.07% 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

