

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	Channel number	Frequency(MHz)	AV power (dBm)	Tune up (dBm))	SAR Test
BT	DH5	0	2402	10.79	11.00	Yes
		39	2441	10.45	11.00	Yes
		78	2480	10.69	11.00	Yes
	2DH5	0	2402	7.37	8.50	No
		39	2441	7.44	8.50	No
		78	2480	7.68	8.50	No
	3DH5	0	2402	7.63	8.50	No
		39	2441	7.26	8.50	No
		78	2480	7.64	8.50	No
	BLE-1M	0	2402	3.43	4.00	No
		19	2440	3.49	4.00	No
		39	2480	3.31	4.00	No
	BLE-2M	1	2404	3.42	4.00	Yes
		19	2440	4.02	5.00	Yes
		38	2478	4.23	5.00	Yes

Note: Since bluetooth DH5 and BLE-2M mode is the maximum output power mode, SAR measurements were performed with test software using DH5 and BLE-2M modulation, and SAR measurement is not required for the EDR and BLE 1M. When the secondary mode is ≤ ¼ dB higher than the primary mode.

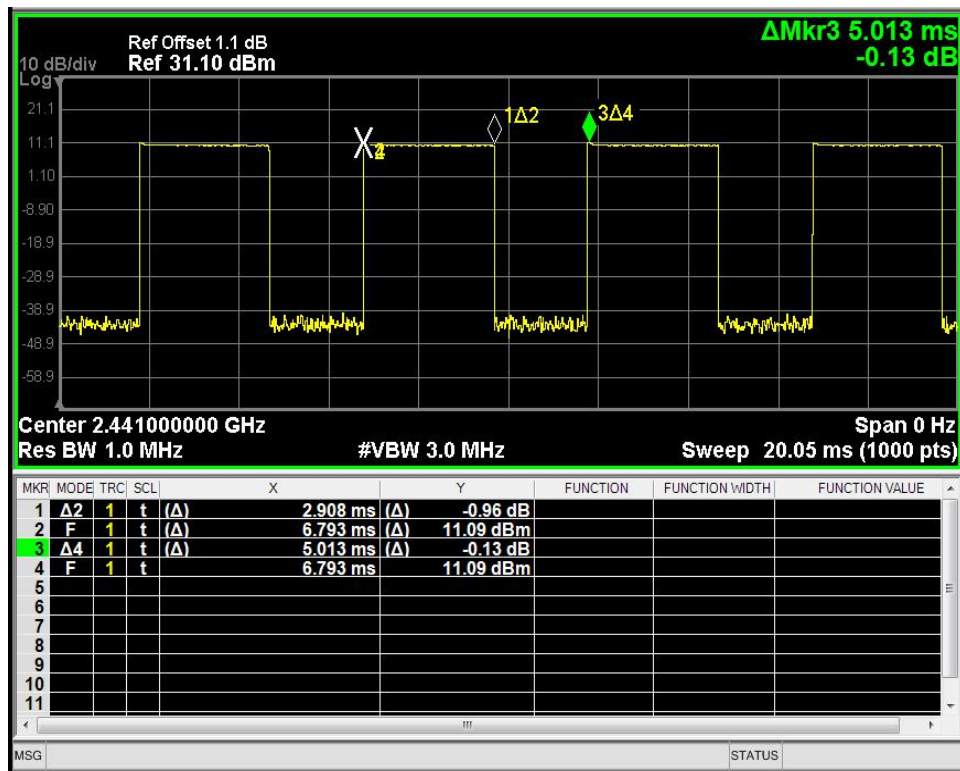
Bluetooth-Right Ear						
Test Mode	Modulation	Channel number	Frequency(MHz)	AV power (dBm)	Tune up (dBm))	SAR Test
BT	DH5	0	2402	10.84	11.00	Yes
		39	2441	10.57	11.00	Yes
		78	2480	10.81	11.00	Yes
	2DH5	0	2402	7.60	8.50	No
		39	2441	7.64	8.50	No
		78	2480	8.08	8.50	No
	3DH5	0	2402	7.57	8.50	No
		39	2441	7.73	8.50	No
		78	2480	8.13	8.50	No
	BLE-1M	0	2402	3.03	4.00	No
		19	2440	3.40	4.00	No
		39	2480	3.82	4.00	No
	BLE-2M	1	2404	3.69	4.00	Yes
		19	2440	4.13	5.00	Yes
		38	2478	4.56	5.00	Yes

Note: Since bluetooth DH5 and BLE-2M mode is the maximum output power mode, SAR measurements were performed with test software using DH5 and BLE-2M modulation, and SAR measurement is not required for the EDR and BLE 1M. When the secondary mode is ≤ ¼ dB higher than the primary mode.

8.1.2 Bluetooth Duty Cycle

The Bluetooth-DH5 duty cycle is 58.01% 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 2M duty cycle is 31.33% 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

