

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

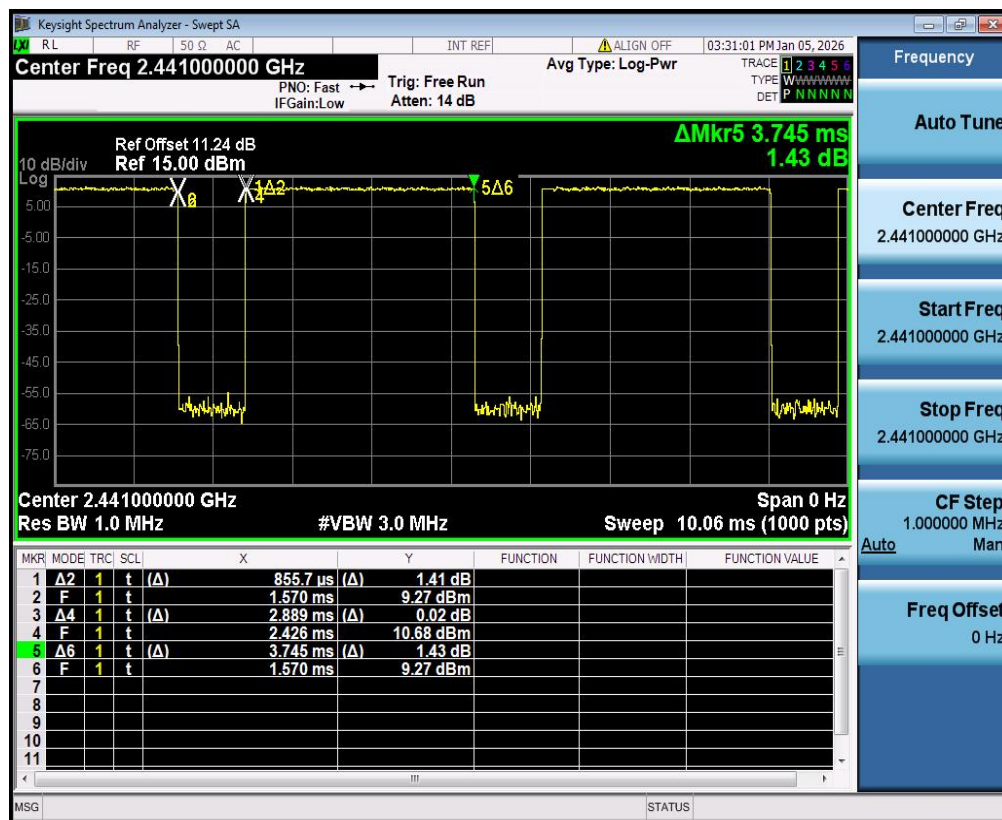
Bluetooth-Ant.0-Full Power						
Test Mode	Modulation	Channel number	Frequency(MHz)	AV power (dBm)	Tune up (dBm))	SAR Test
BT	DH5	0	2402	-2.75	-2.00	No
		39	2441	-2.28	-2.00	No
		78	2480	-2.13	-2.00	No
	2DH5	0	2402	0.30	1.00	Yes
		39	2441	0.64	1.00	Yes
		78	2480	0.72	1.00	Yes
	3DH5	0	2402	0.30	1.00	No
		39	2441	0.62	1.00	No
		78	2480	0.58	1.00	No
	BLE1M	0	2402	-2.56	-1.50	Yes
		19	2440	-2.12	-1.50	Yes
		39	2480	-1.77	-1.50	Yes
	BLE2M	1	2404	-2.49	-1.50	No
		19	2440	-1.98	-1.50	No
		38	2478	-1.68	-1.50	No

Note: Since bluetooth EDR mode is the maximum output power mode, SAR measurements were performed with test software using 2DH5 modulation, and SAR measurement is not required for the BR and 3DH5. When the secondary mode is ≤ ¼ dB higher than the primary mode.

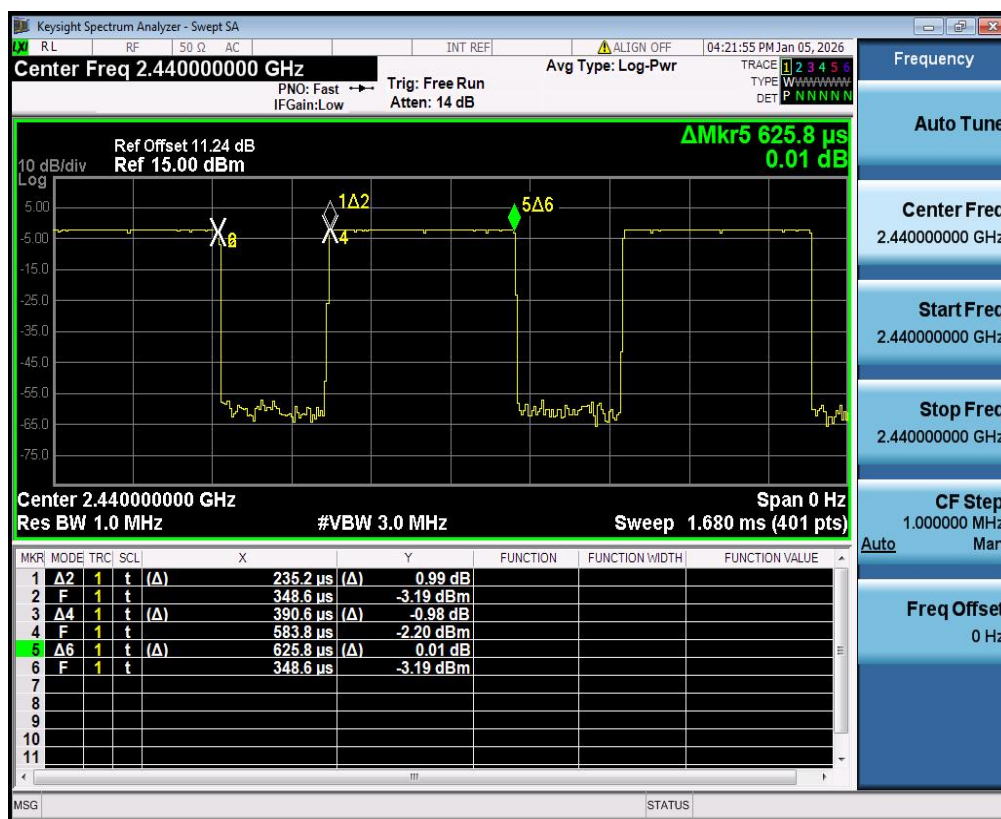
Bluetooth-Ant.1-Full Power						
Test Mode	Modulation	Channel number	Frequency(MHz)	AV power (dBm)	Tune up (dBm))	SAR Test
BT	DH5	0	2402	-0.21	0.00	No
		39	2441	-0.59	0.00	No
		78	2480	-1.73	0.00	No
	2DH5	0	2402	-1.94	-1.50	Yes
		39	2441	-2.27	-1.50	Yes
		78	2480	0.24	0.50	Yes
	3DH5	0	2402	-1.90	-1.50	No
		39	2441	-2.30	-1.50	No
		78	2480	0.21	0.50	No
	BLE1M	0	2402	-4.40	-4.00	Yes
		19	2440	-4.54	-4.00	Yes
		39	2480	-5.57	-4.00	Yes
	BLE2M	1	2404	-4.33	-4.00	No
		19	2440	-4.54	-4.00	No
		38	2478	-5.39	-4.00	No
Note: Since bluetooth EDR mode is the maximum output power mode, SAR measurements were performed with test software using 2DH5 modulation, and SAR measurement is not required for the BR and 3DH5. When the secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode.						

8.1.2 Bluetooth Duty Cycle

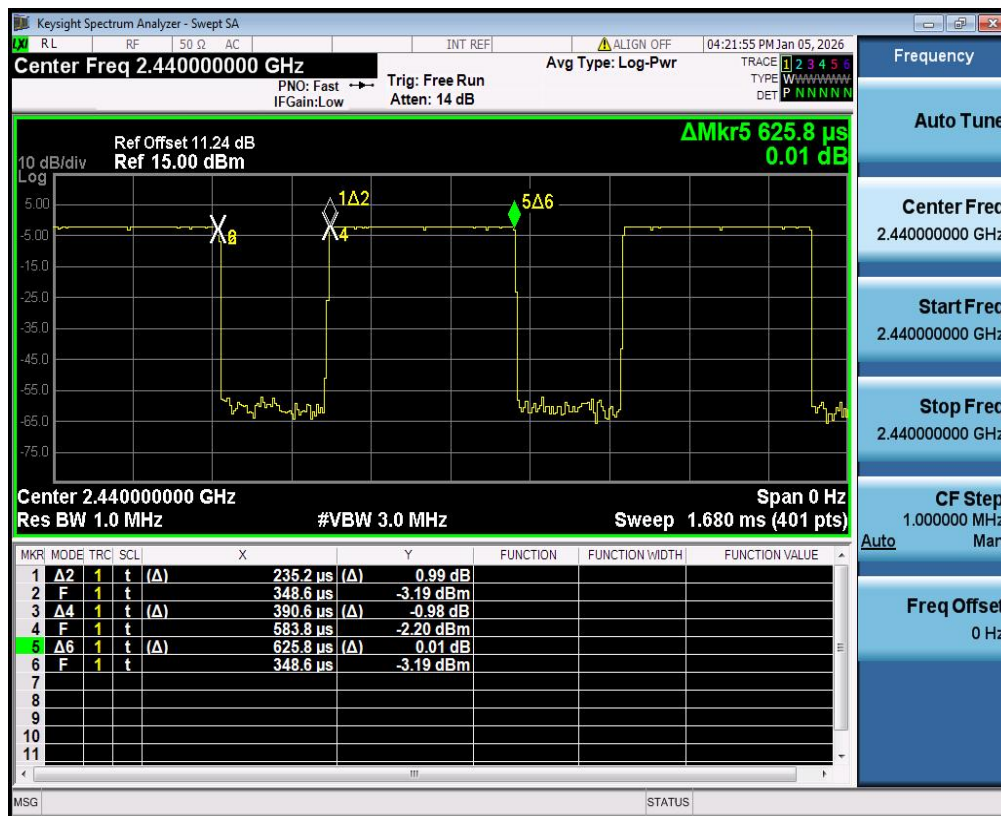
The Ant.0 Bluetooth duty cycle of 2DH5 is 77.15% as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.



The Ant.0 Bluetooth duty cycle of BLE-2M is 62.42% 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.



The Ant.1 Bluetooth duty cycle of 2DH5 is 76.88% 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.



The Ant.1 Bluetooth duty cycle of BLE-2M is 63.09% 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.

