Appendix A

RF Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: Smart Bark Collar

Trade Mark: Dr.Trainer

Test Model: B1s Pro

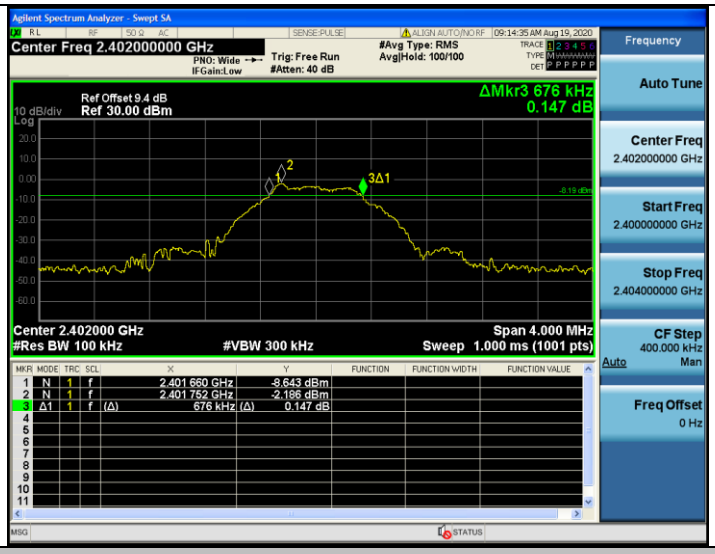
FCC ID: 2AXDU-B1SPRO

Environmental Conditions

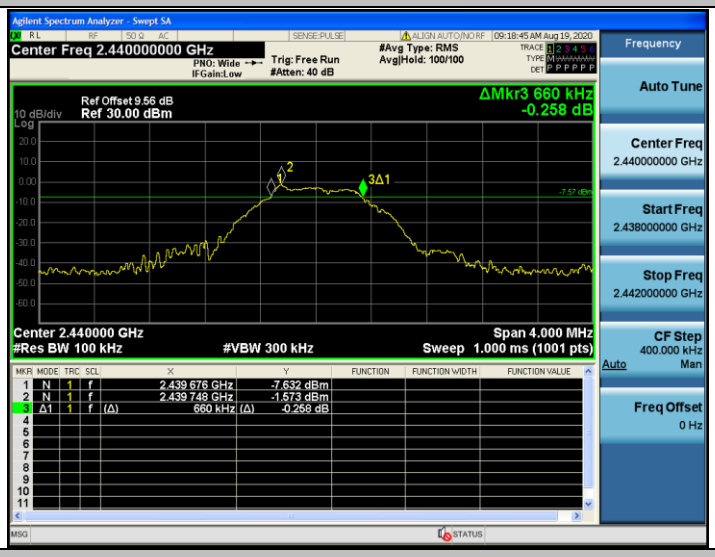
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Nancy Li
Supervised by:	Hugo Chen

A.1. 6dB Bandwidth

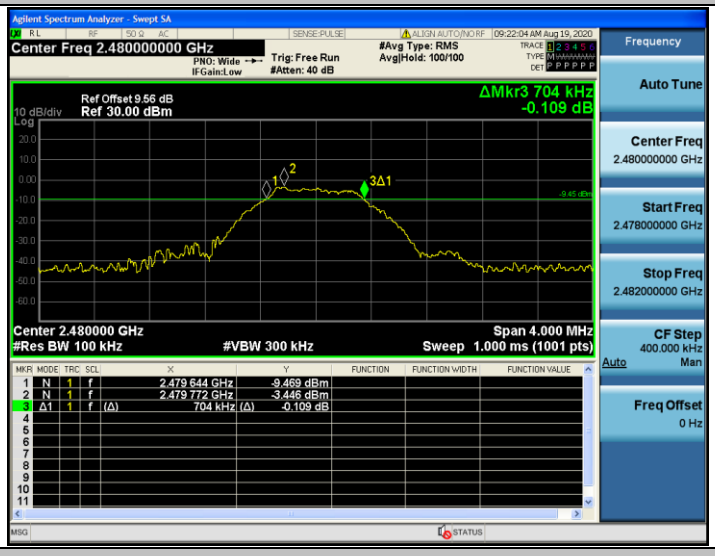
Test Mode	Test Channel	Ant	EBW[MHz]	Limit	Verdict
BLE(1Mbps)	2402	Ant1	0.676	0.5	PASS
BLE(1Mbps)	2440	Ant1	0.660	0.5	PASS
BLE(1Mbps)	2480	Ant1	0.704	0.5	PASS



BLE_BT4.0_Ant1_2402



BLE_BT4.0_Ant1_2440



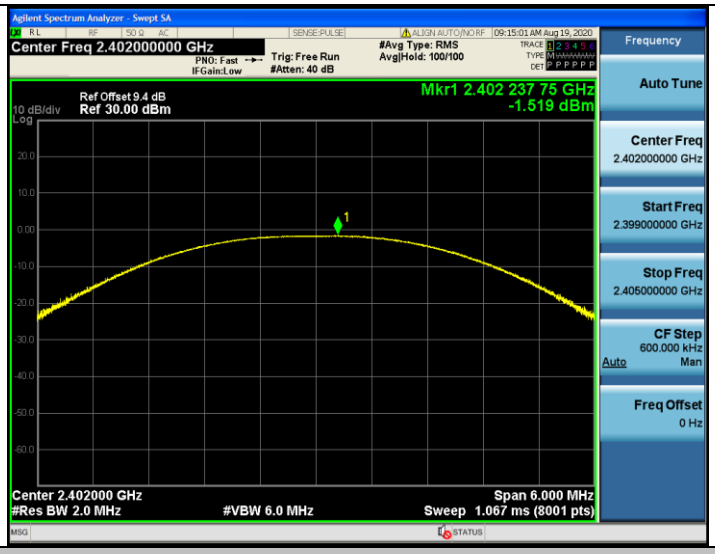
BLE_BT4.0_Ant1_2480

A.2. Occupied Bandwidth

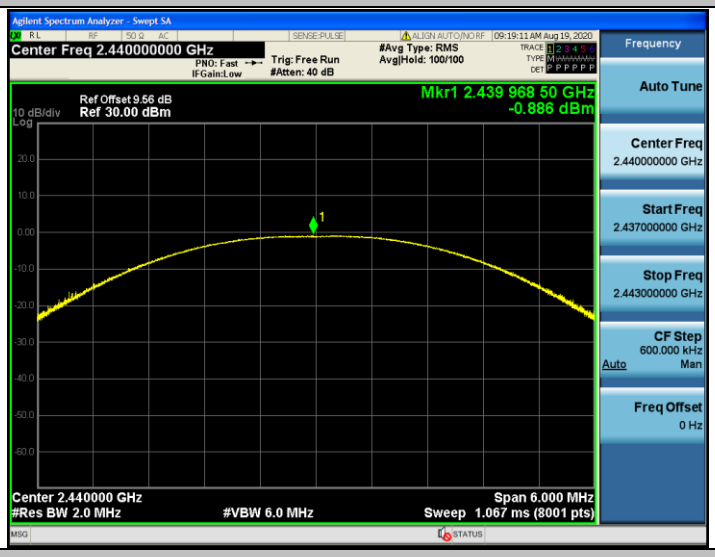
Test Mode	Test Channel	Ant	OBW[MHz]	Limit[MHz]	Verdict

A.3. Maximum peak conducted output power

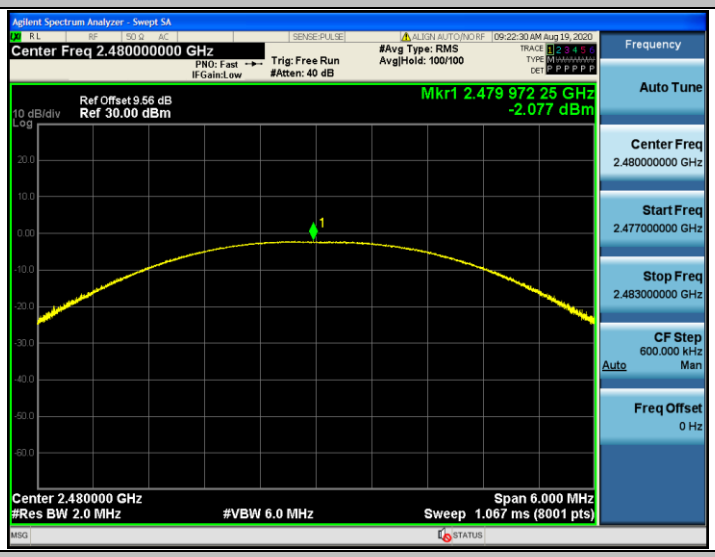
Test Mode	Test	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE(1Mbps)	2402	Ant1	-1.52	30	PASS
BLE(1Mbps)	2440	Ant1	-0.89	30	PASS
BLE(1Mbps)	2480	Ant1	-2.08	30	PASS



BLE_BT4.0_Ant1_2402



BLE_BT4.0_Ant1_2440



BLE_BT4.0_Ant1_2480

A.4. Maximum Peak power spectral density

Test Mode	Test	Ant	PSD[dBm/10KHz]	Converter Factor [dB]	PSD[dBm/3KHz]	Limit[dBm/3KHz]	Verdict
BLE(1Mbps)	2402	Ant1	-11.02	5.23	-16.25	8.00	PASS
BLE(1Mbps)	2440	Ant1	-10.42	5.23	-15.65	8.00	PASS
BLE(1Mbps)	2480	Ant1	-11.55	5.23	-16.78	8.00	PASS

Note:

1,Converter factor = 10 * lg(RBW/3 kHz) = 5.23 (dB)

2, PSD[dBm/3KHz] = PSD[dBm/10KHz] - Converter Factor

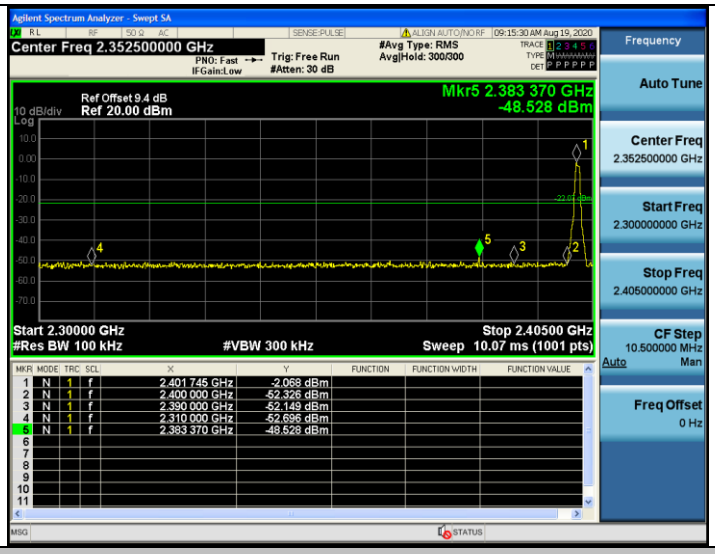
BLE_BT4.0_Ant1_2402

BLE_BT4.0_Ant1_2440

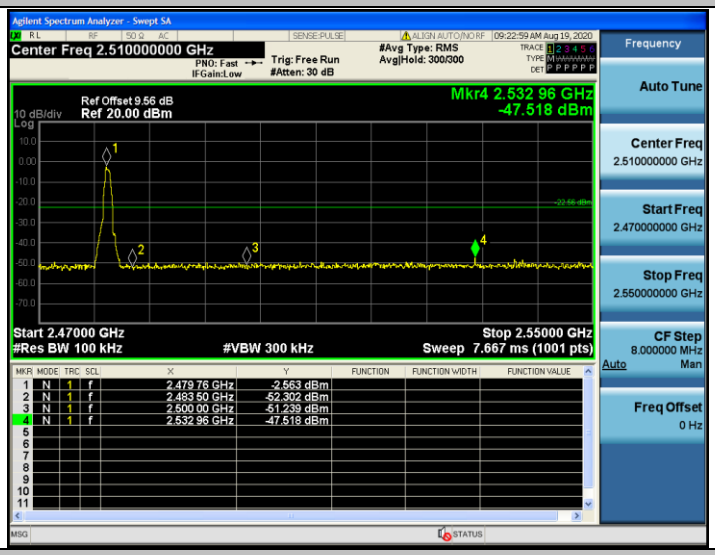
BLE_BT4.0_Ant1_2480

A.5. Band-edge for RF Conducted Emissions

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_BT4.0	Ant1	Low	2402	-2.07	-48.53	<=-22.07	PASS
		High	2480	-2.56	-47.52	<=-22.56	PASS



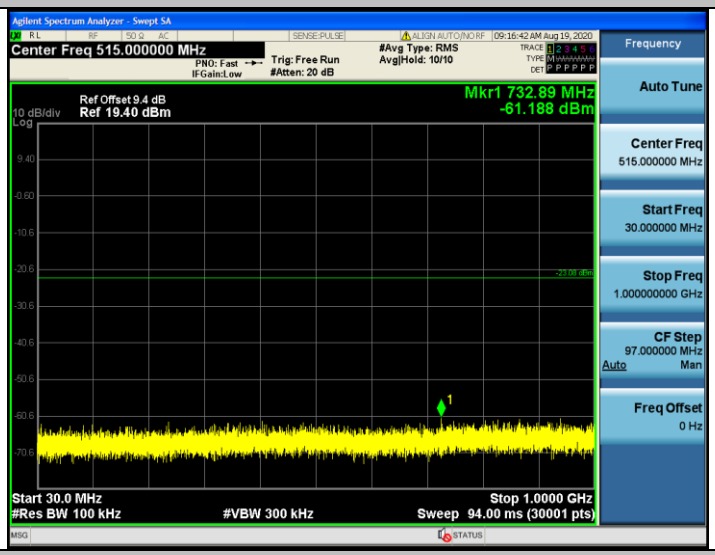
BLE_BT4.0_Ant1_Low_2402



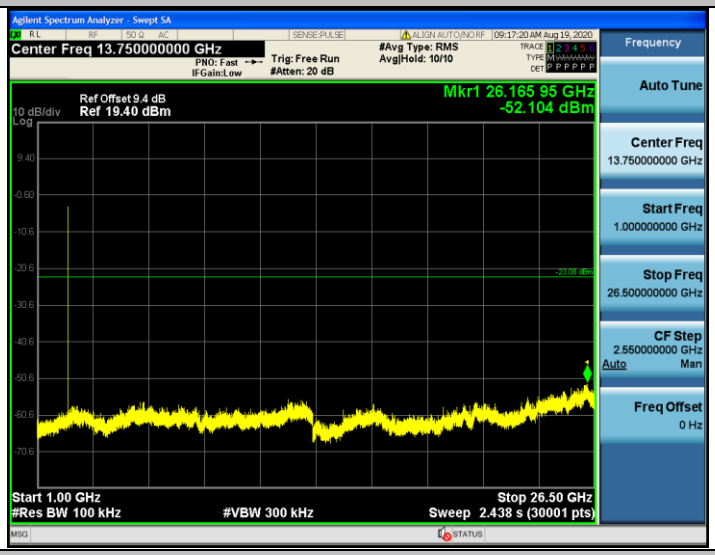
BLE_BT4.0_Ant1_High_2480

A.6. RF Conducted Spurious Emissions

BLE_BT4.0_Ant1_2402_0~Reference

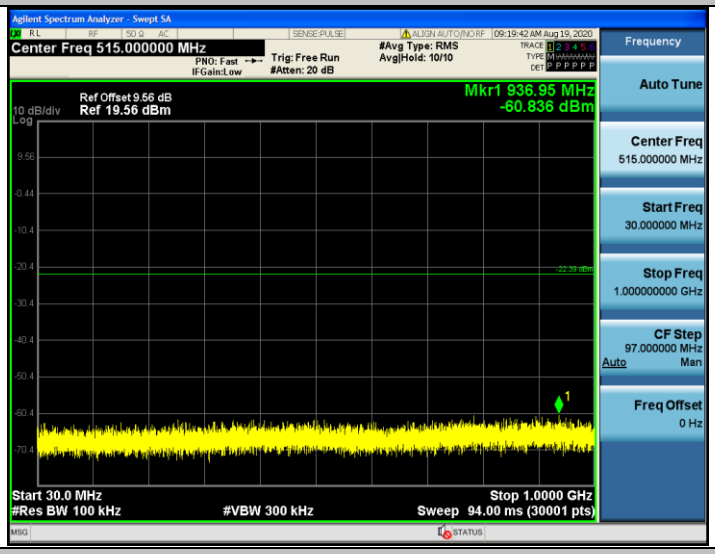


BLE_BT4.0_Ant1_2402_30~1000

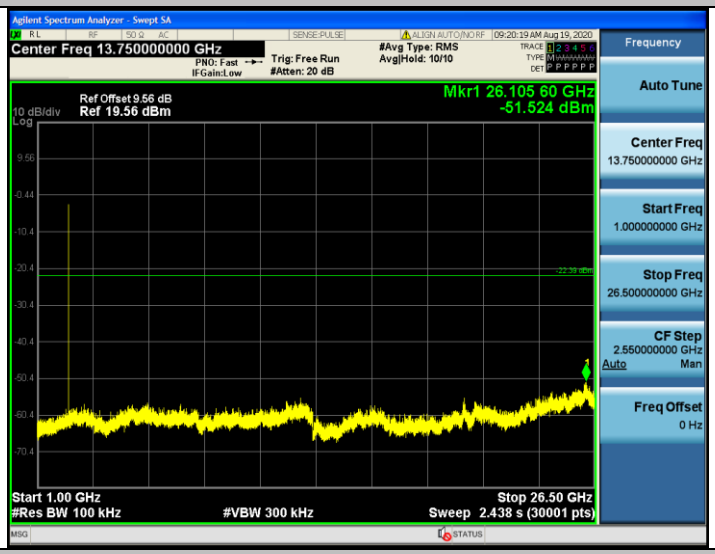


BLE_BT4.0_Ant1_2402_1000~26500

BLE_BT4.0_Ant1_2440_0~Reference

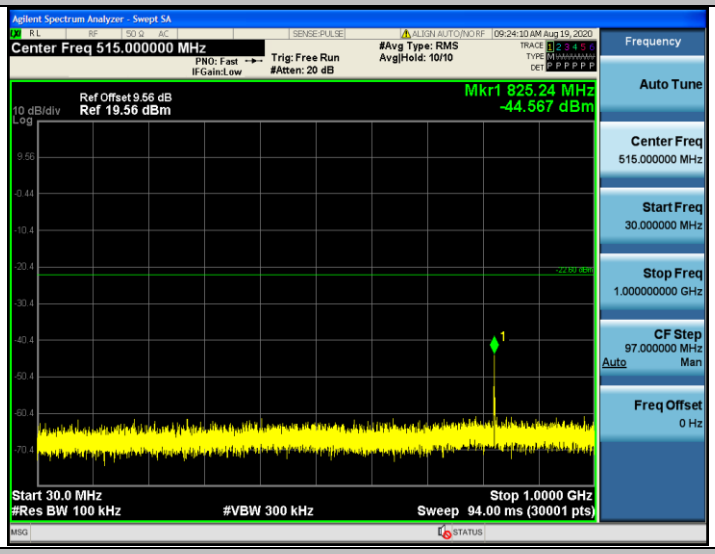


BLE_BT4.0_Ant1_2440_30~1000

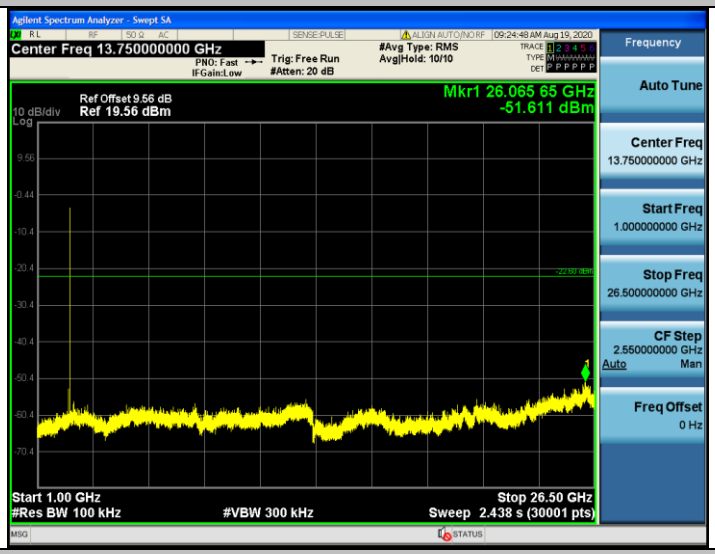


BLE_BT4.0_Ant1_2440_1000~26500

BLE_BT4.0_Ant1_2480_0~Reference



BLE_BT4.0_Ant1_2480_30~1000

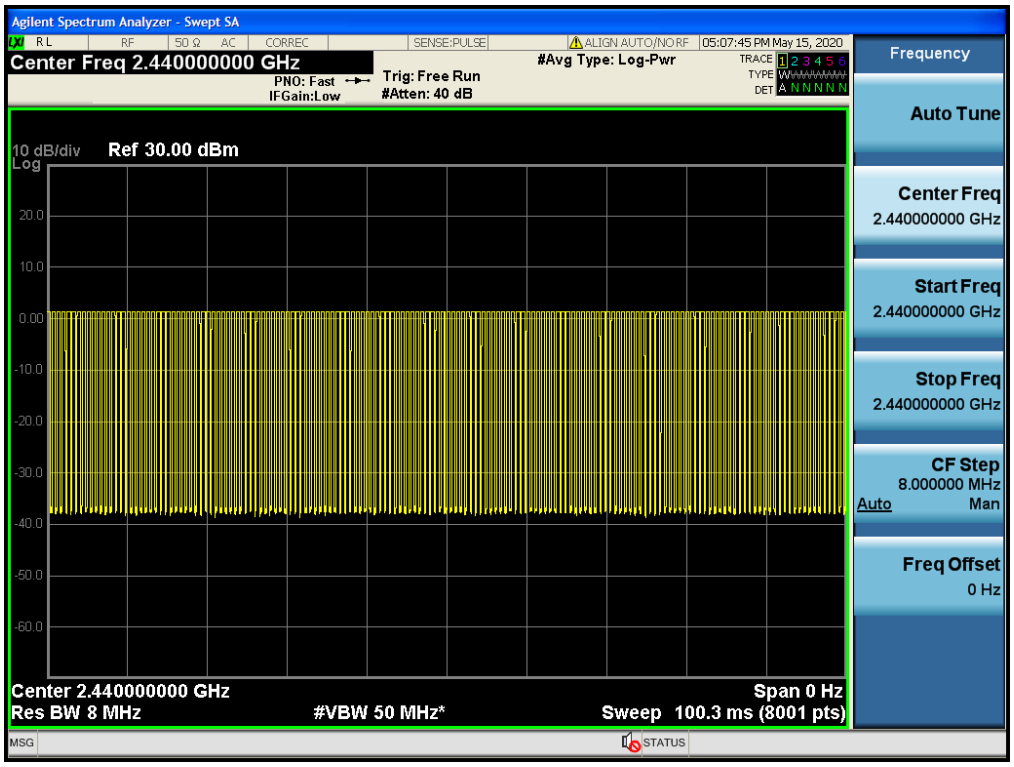


BLE_BT4.0_Ant1_2480_1000~26500

A.7. Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BLE(1Mbps)	2440	Ant1	62.35	PASS

Duty Cycle_BLE(1Mbps)_2440_Ant1

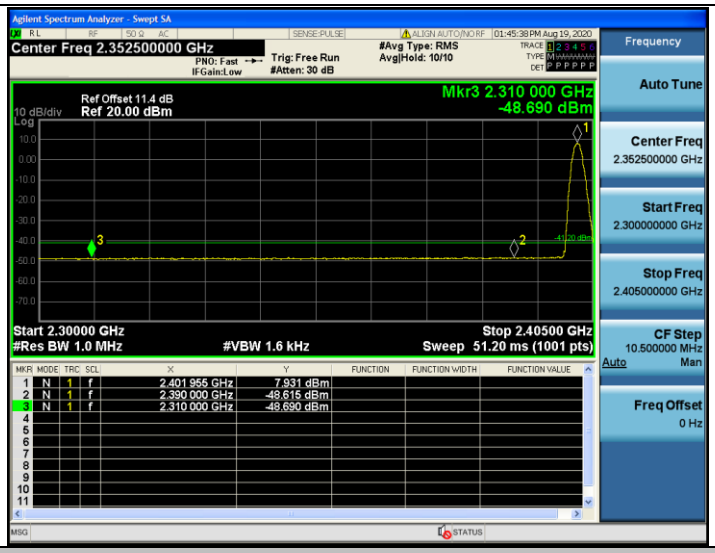


A.8. Restrict-band band-edge measurements

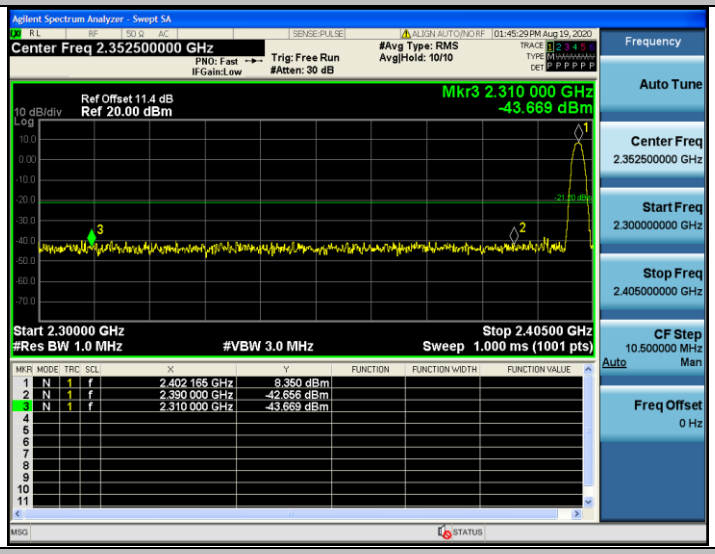
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_BT4.0	Ant1	Low	2402	AV	2310.000	-48.69	<=-41.20	PASS
				AV	2390.000	-48.62	<=-41.20	PASS
				Peak	2310.000	-43.67	<=-21.20	PASS
				Peak	2390.000	-42.66	<=-21.20	PASS
		High	2480	AV	2483.500	-46.86	<=-41.20	PASS
				AV	2500.000	-48.16	<=-41.20	PASS
				Peak	2483.500	-43.55	<=-21.20	PASS
				Peak	2500.000	-40.24	<=-21.20	PASS

Note：

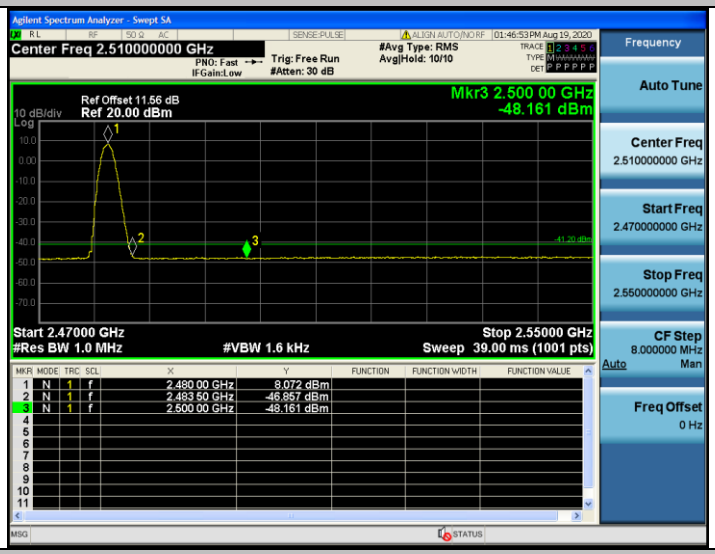
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



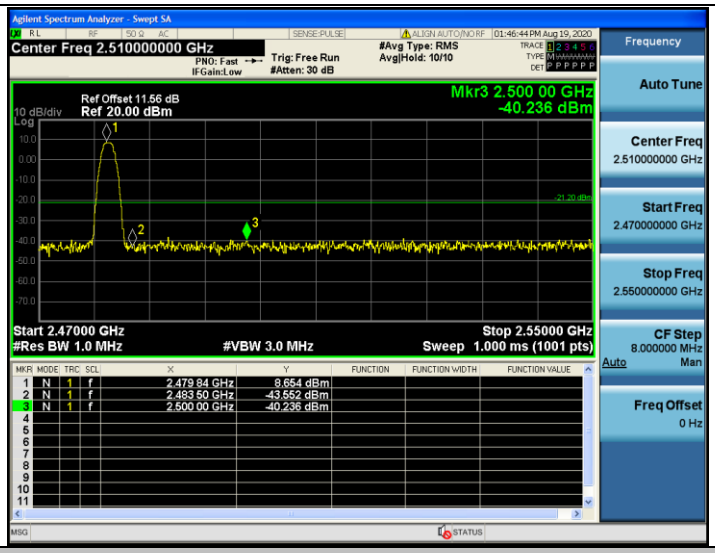
BLE_BT4.0_Ant1_Low_2402_AV



BLE_BT4.0_Ant1_Low_2402_Peak



BLE_BT4.0_Ant1_High_2480_AV



BLE_BT4.0_Ant1_High_2480_Peak