

Appendix A

RF Test Data for BT(BLE) (Conducted Measurement)

Product Name: NucBox2
Trade Mark: GMK
Test Model: KB2
FCC ID: 2AXUD-KB2

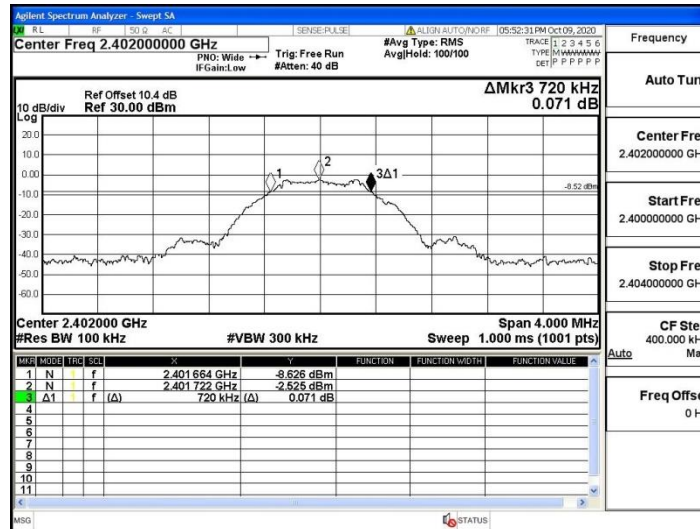
Environmental Conditions

Temperature:	22.8° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

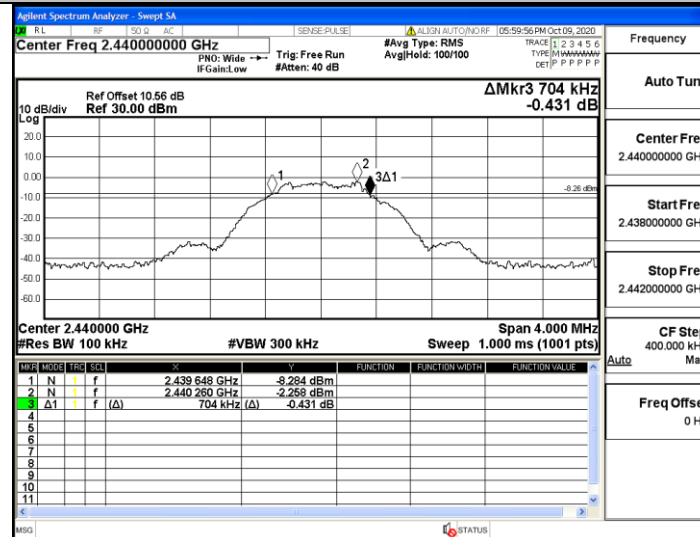
A.1. 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.720	2401.636	2402.356	0.5	PASS
		2440	0.716	2439.652	2440.368	0.5	PASS
		2480	0.692	2479.632	2480.324	0.5	PASS

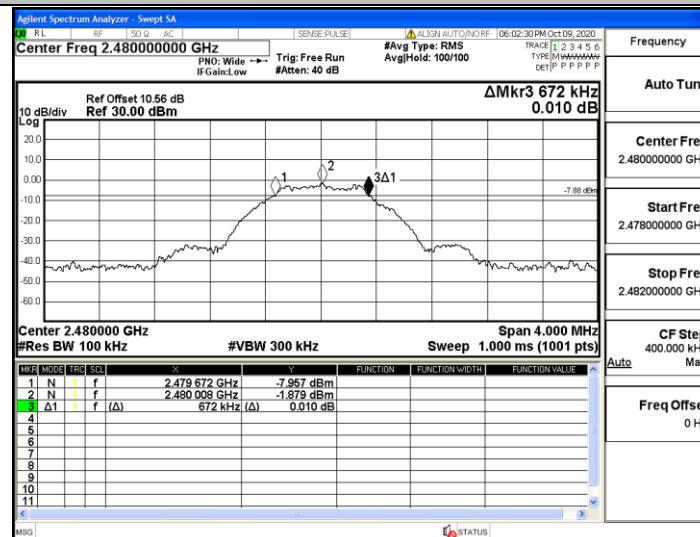
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

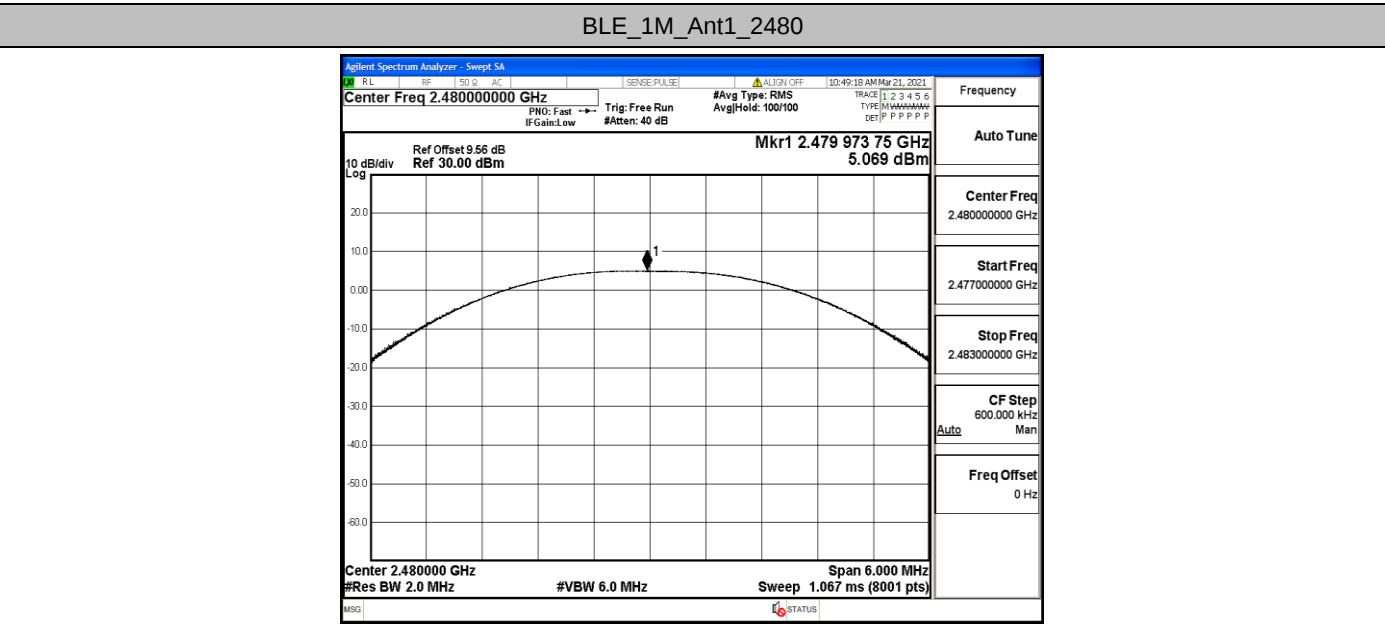
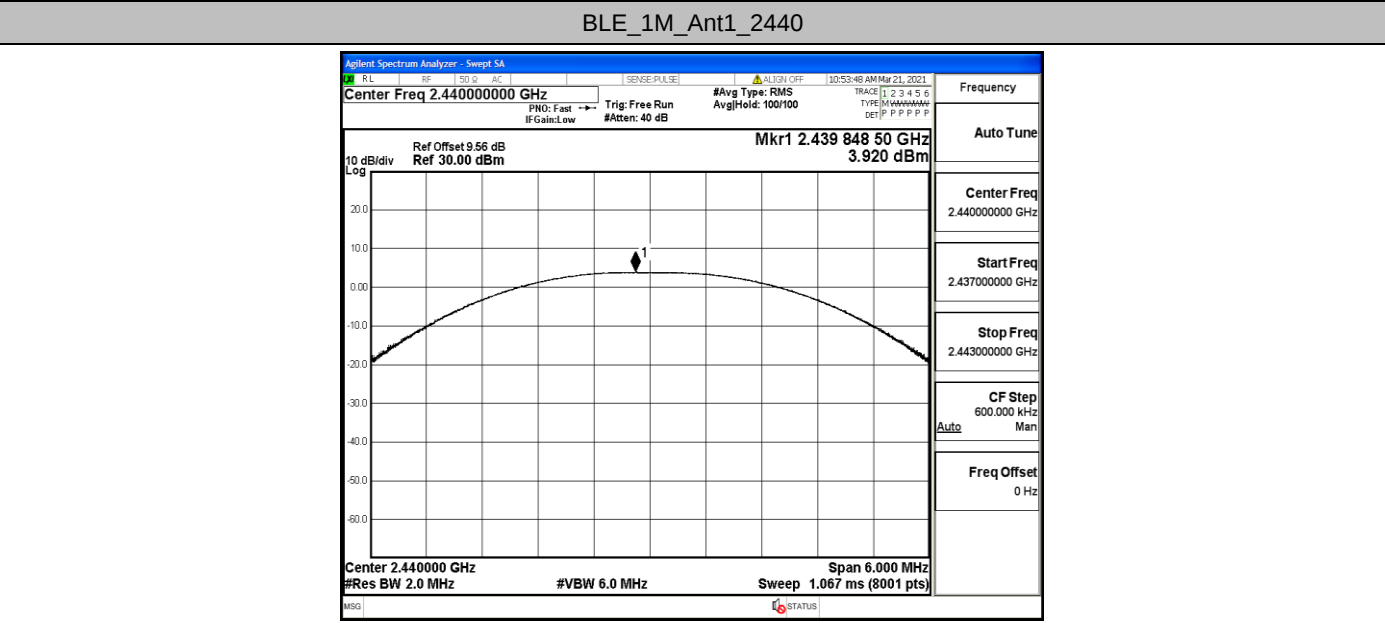
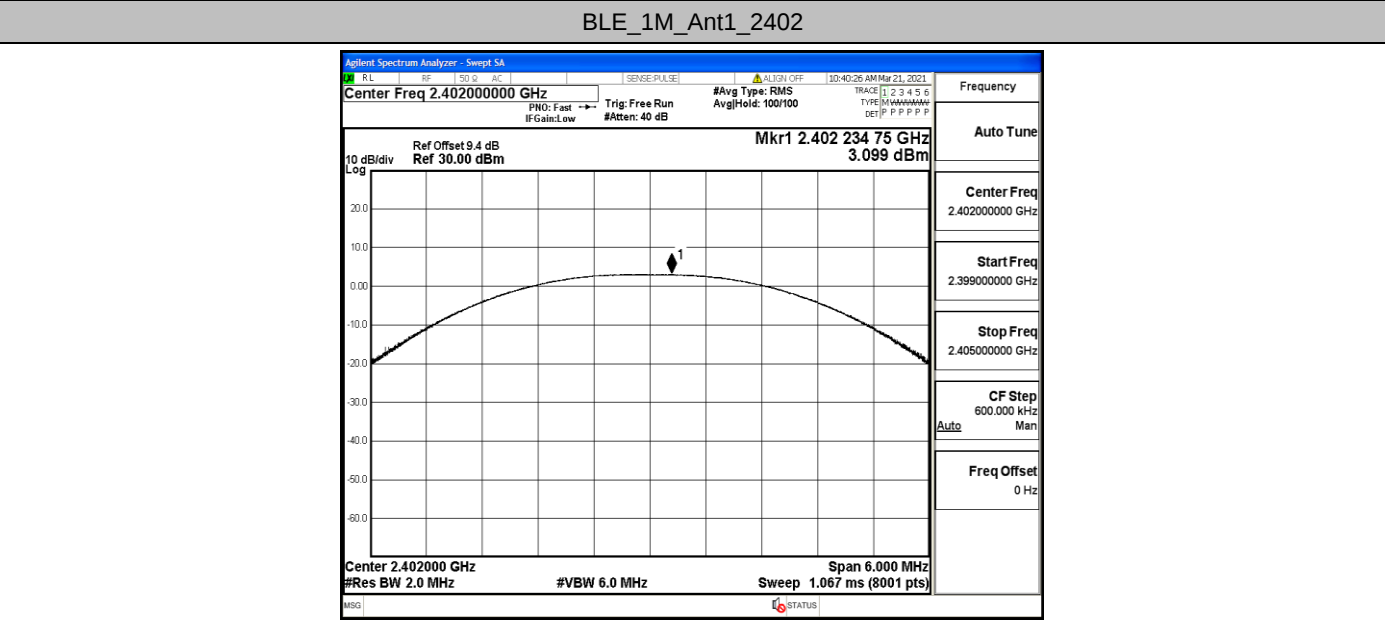


A.2. Occupied Bandwidth

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

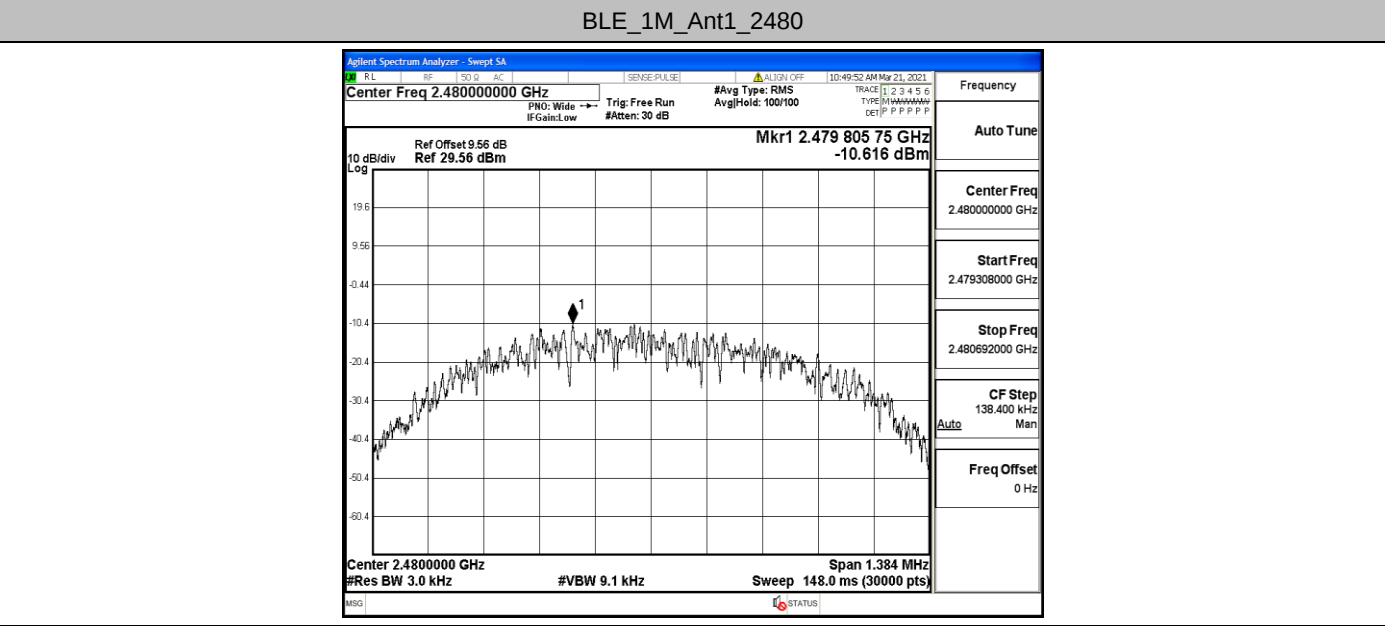
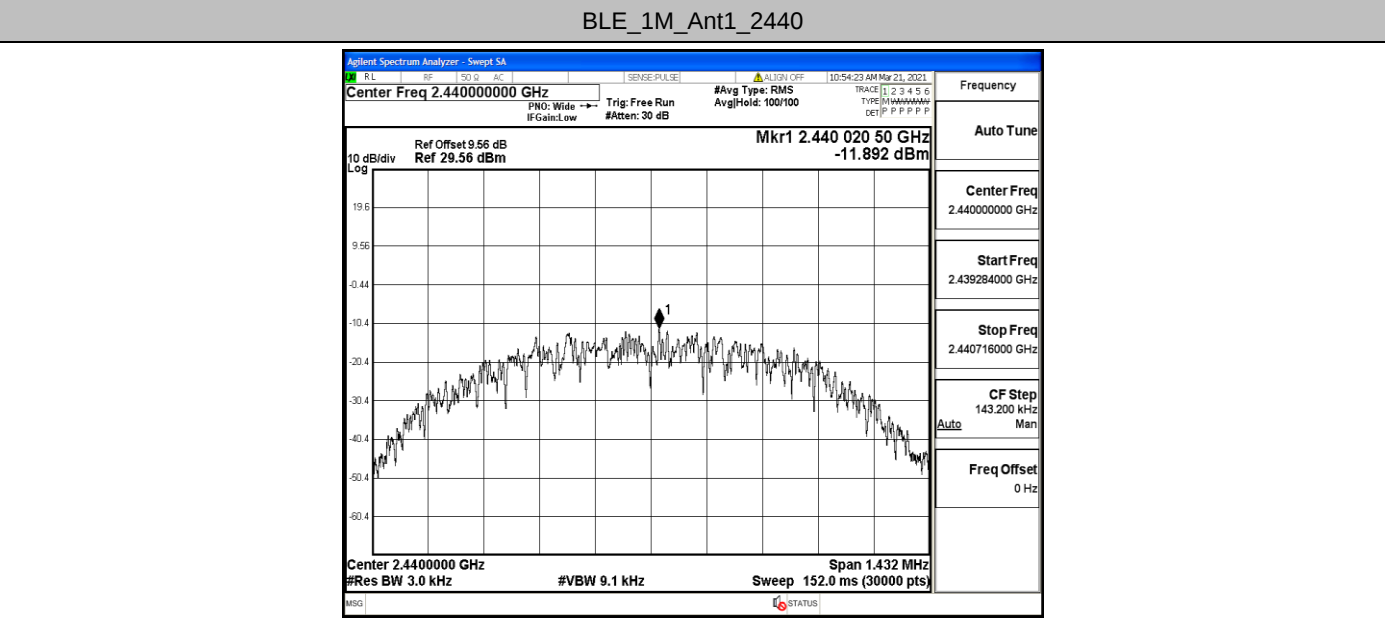
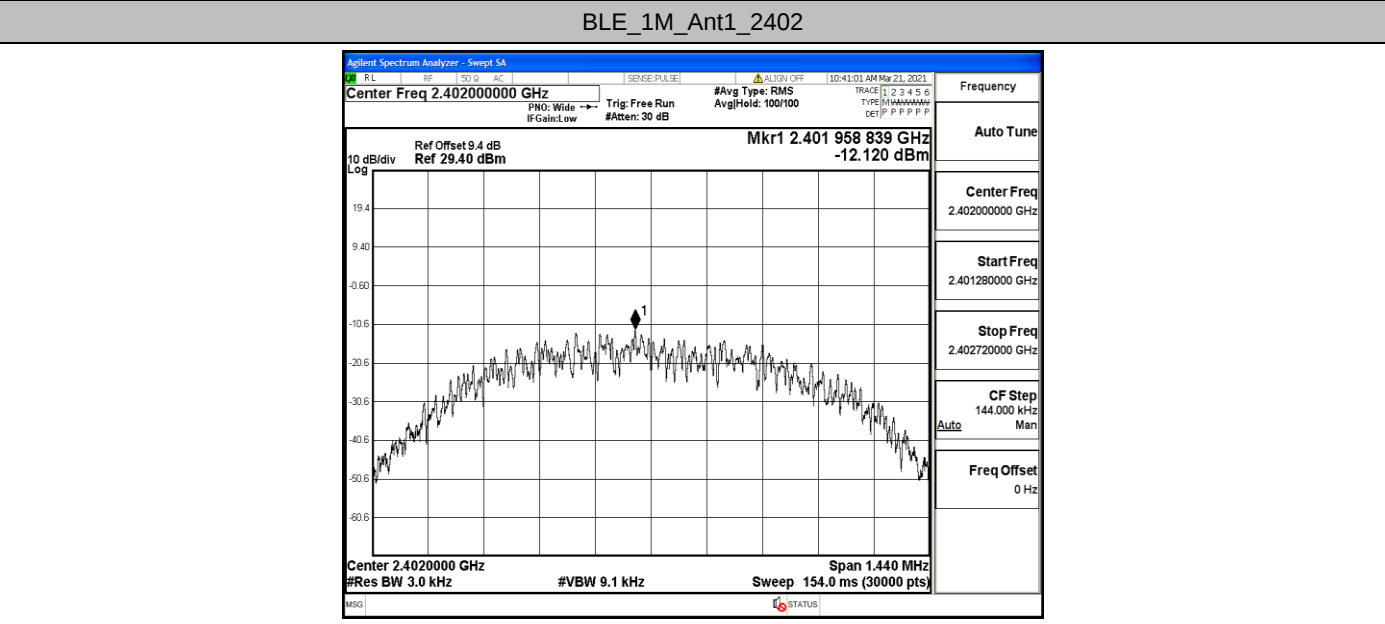
A.3. Maximum peak conducted output power

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.1	<=30	PASS
		2440	3.92	<=30	PASS
		2480	5.07	<=30	PASS



A.4. Maximum Peak power spectral density

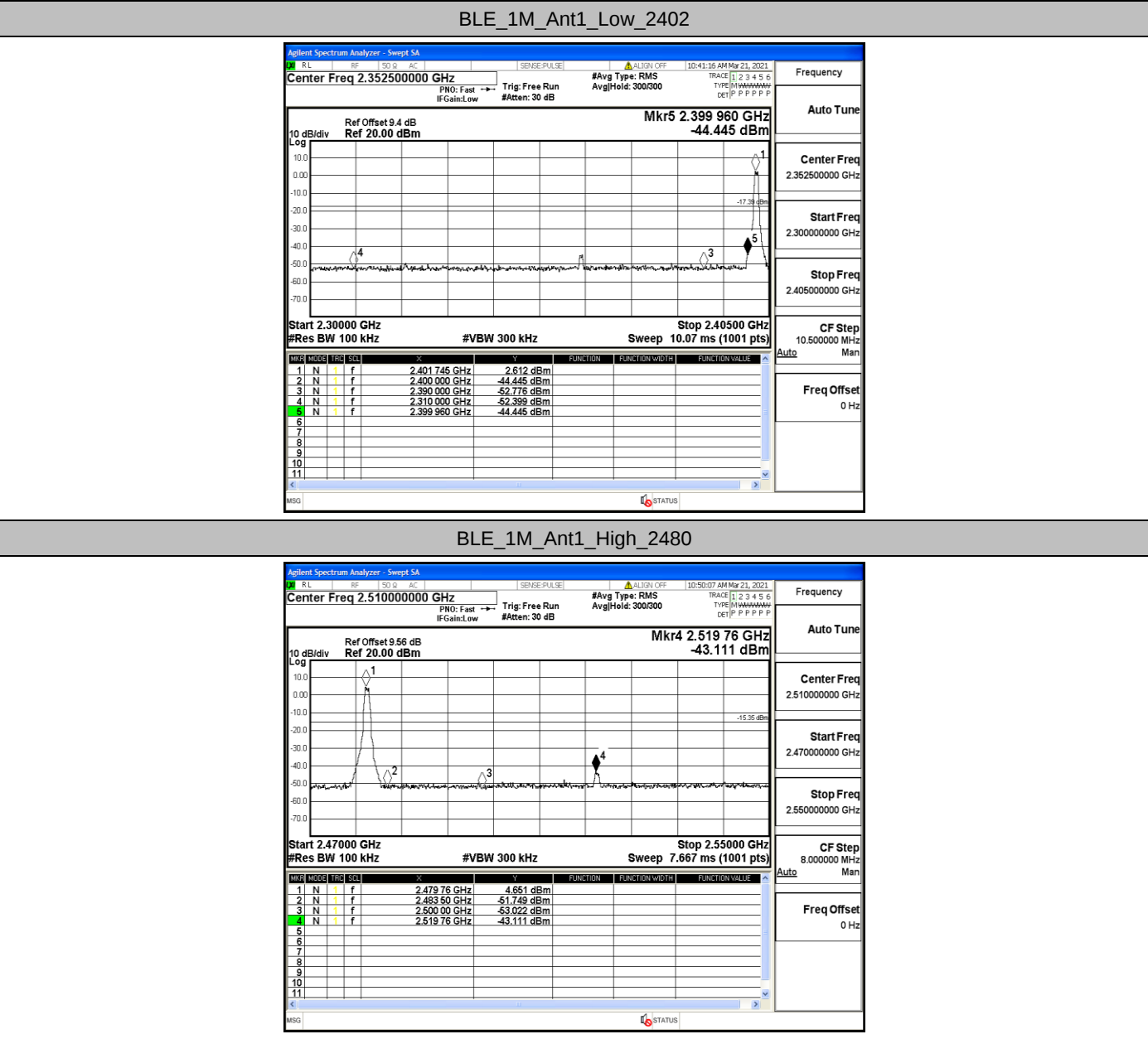
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.12	<=8	PASS
		2440	-11.89	<=8	PASS
		2480	-10.62	<=8	PASS

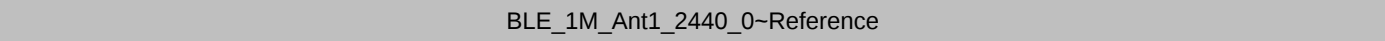
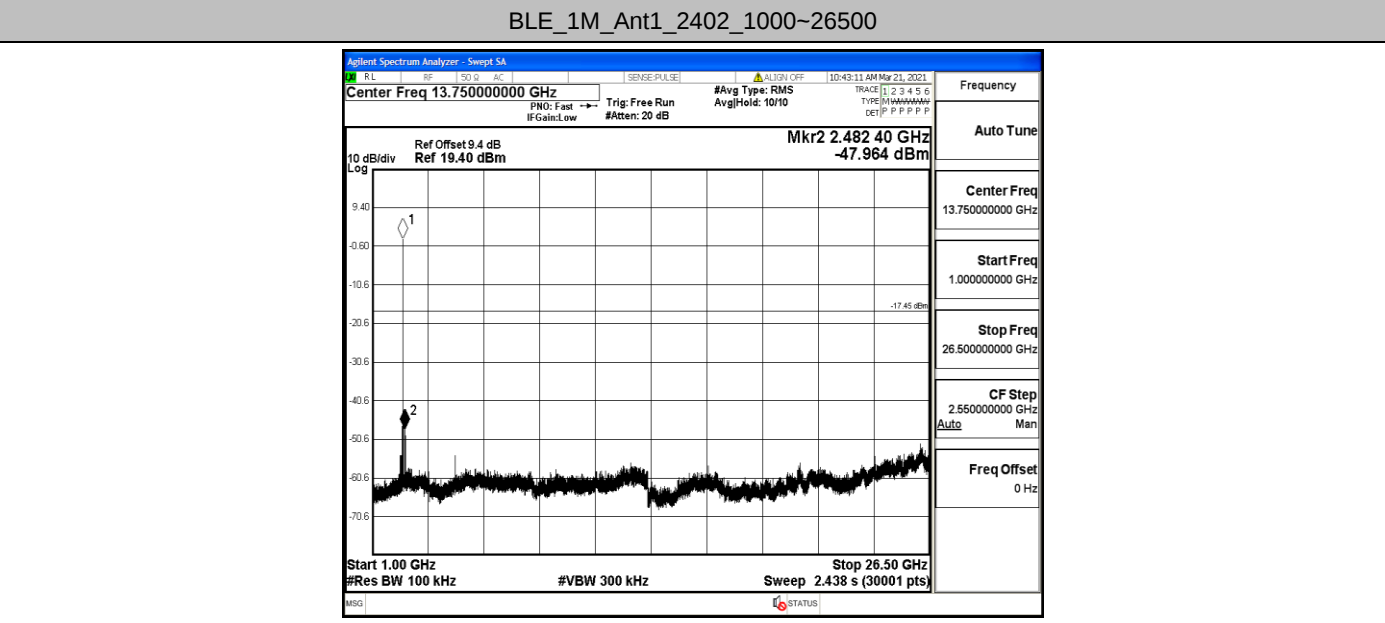
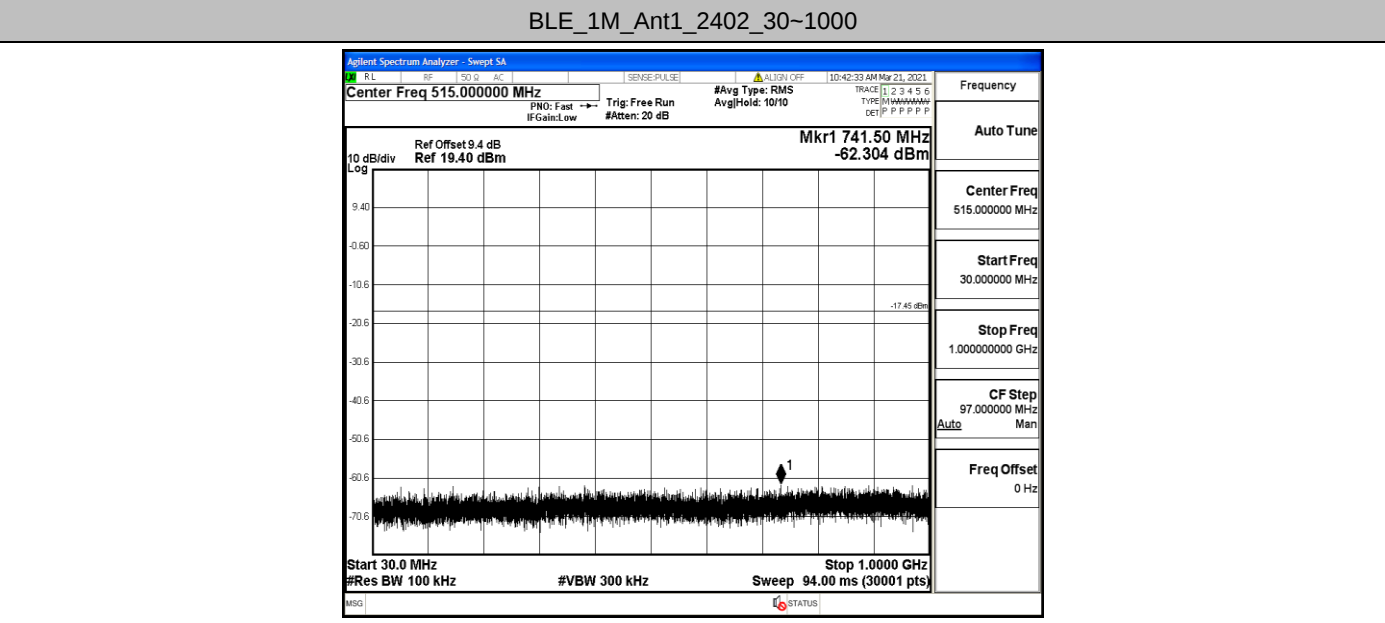
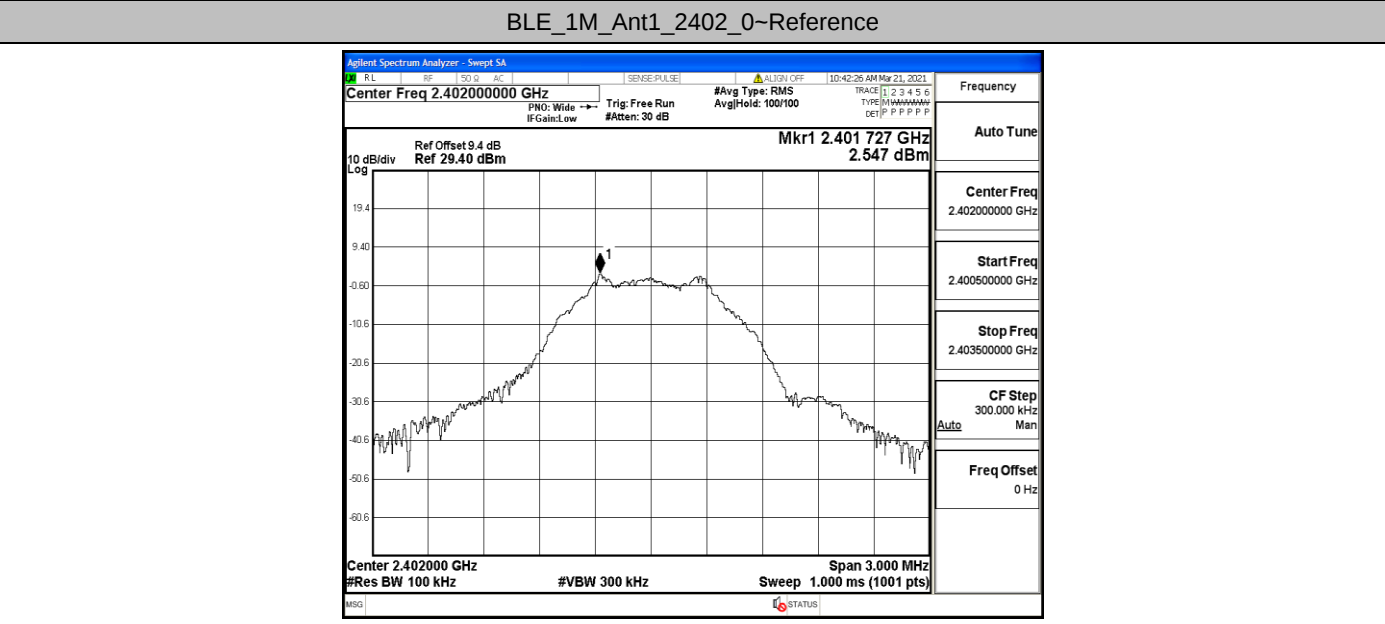


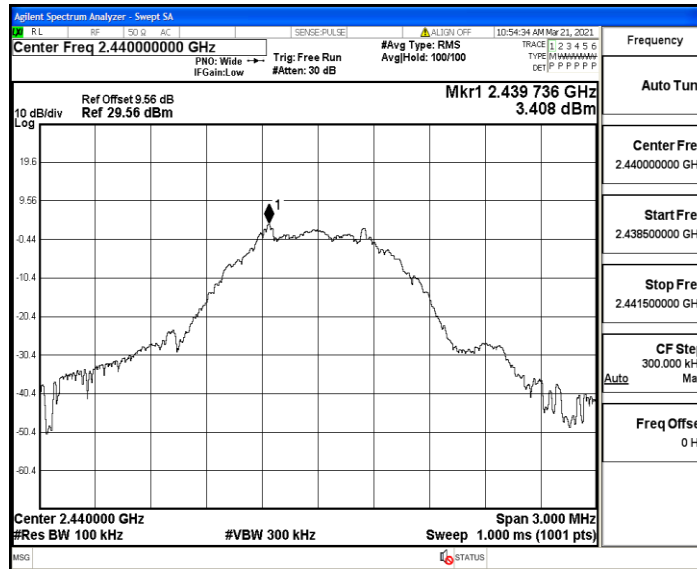
A.5. Band-edge for RF Conducted Emissions

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.61	-44.45	<=-17.39	PASS
		High	2480	4.65	-43.11	<=-15.35	PASS

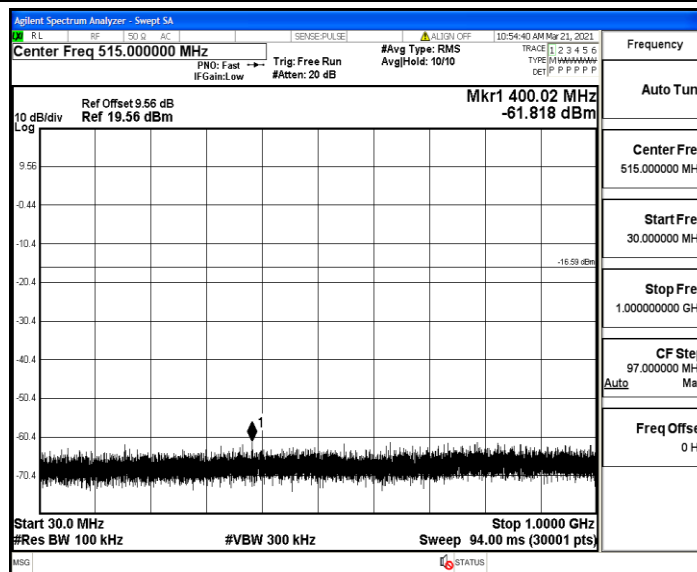
A.6. RF Conducted Spurious Emissions



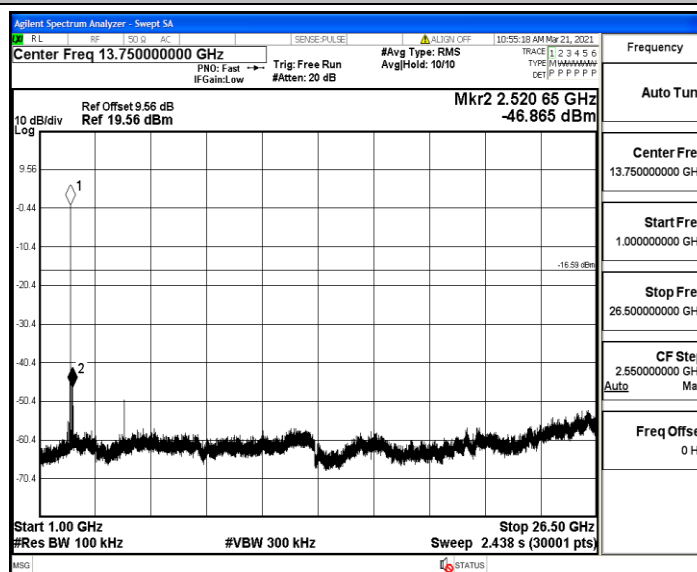




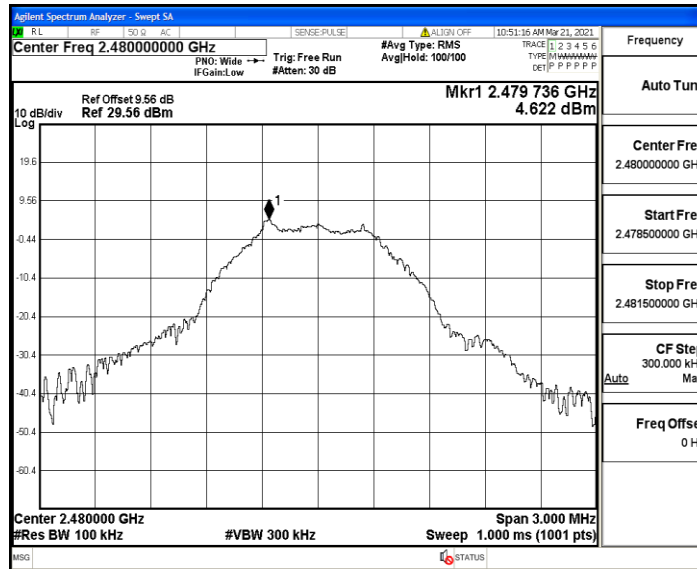
BLE_1M_Ant1_2440_30~1000



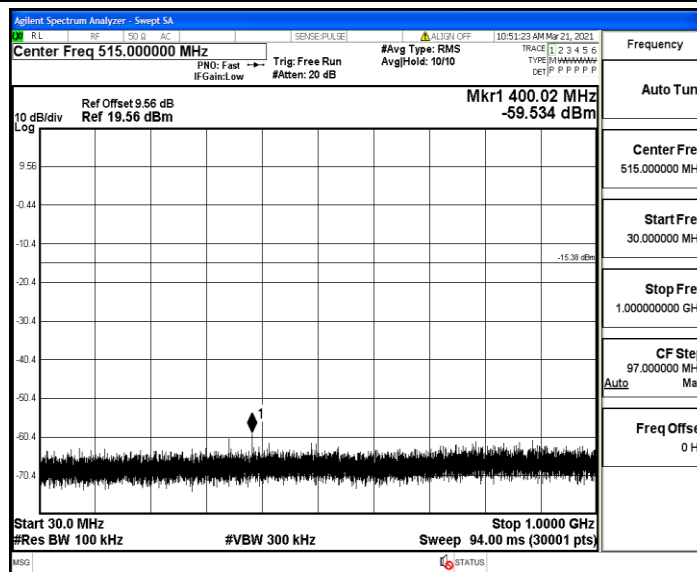
BLE_1M_Ant1_2440_1000~26500



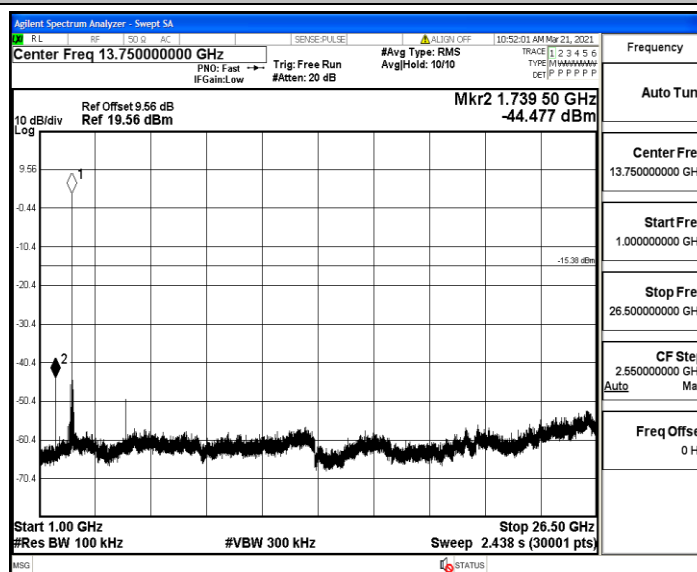
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



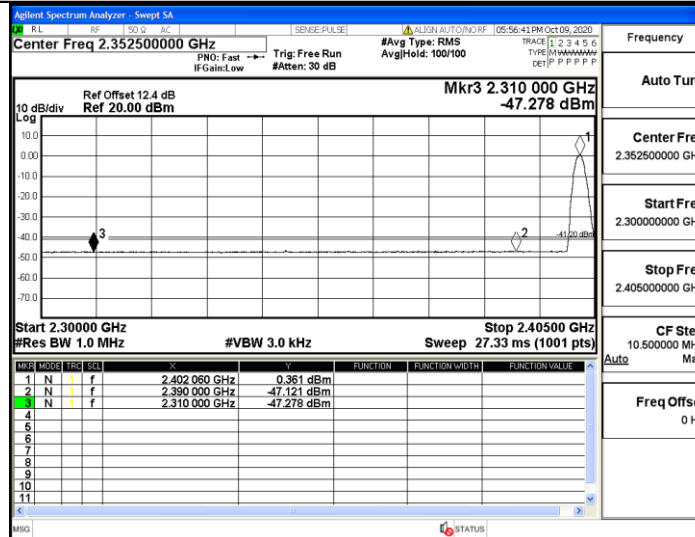
BLE_1M_Ant1_2480_1000~26500



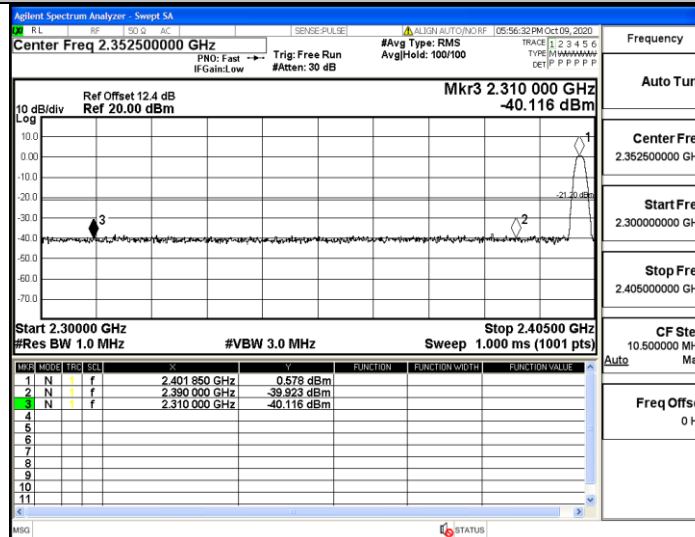
A.7. Restrict-band band-edge measurements

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-47.91	<=-41.20	PASS
				AV	2362.055	-41.98	<=-41.20	PASS
				Peak	2390.000	-47.62	<=-21.20	PASS
				Peak	2310.000	-41.56	<=-21.20	PASS
		High	2480	AV	2361.530	-36.86	<=-41.20	PASS
				AV	2390.000	-41.47	<=-41.20	PASS
				Peak	2483.500	-45.34	<=-21.20	PASS
				Peak	2500.000	-46.76	<=-21.20	PASS

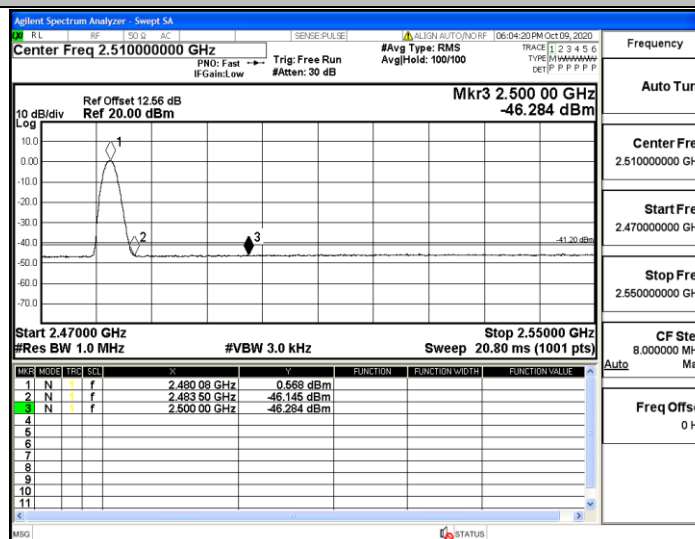
BLE_1M_Ant1_Low_2402_AV



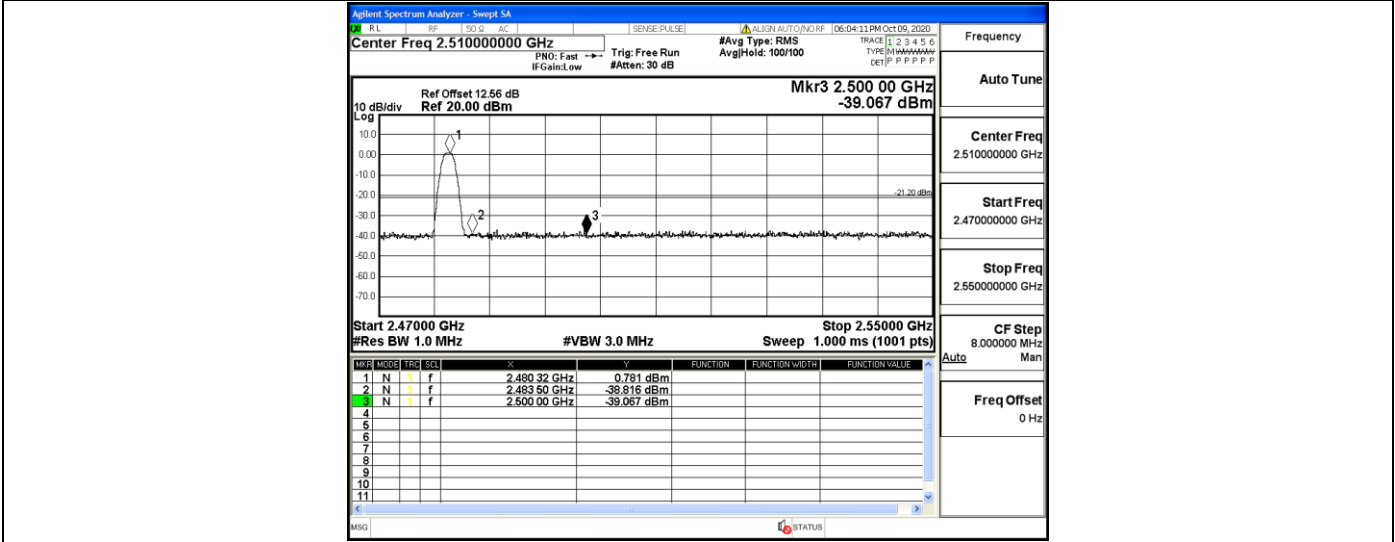
BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



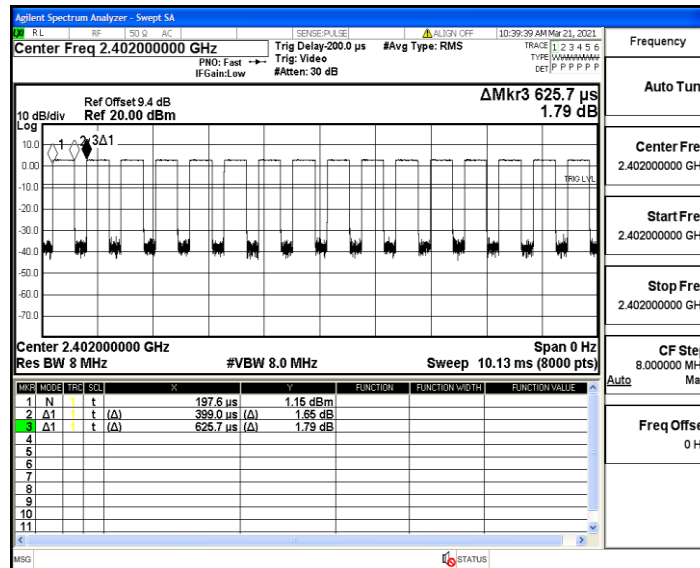
BLE_1M_Ant1_High_2480_Peak



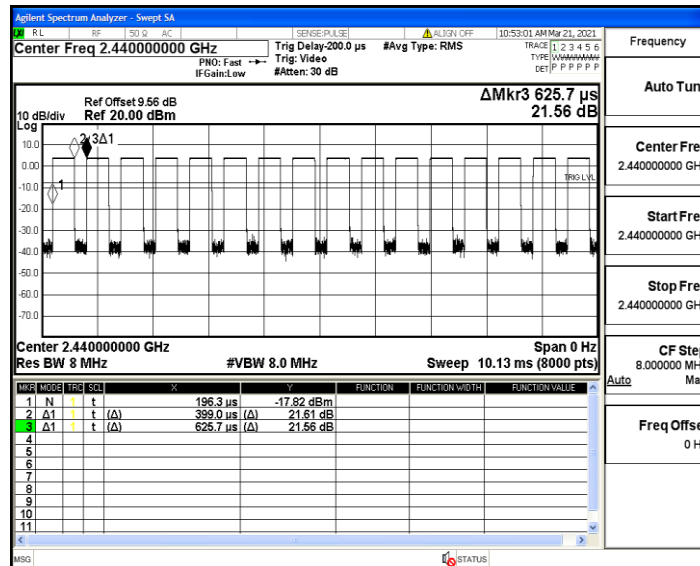
A.8. Duty Cycle

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/B Minimum VBW (KHz)
BLE_1M	Ant1	2402	0.40	0.63	63.49	2.50
		2440	0.40	0.63	63.49	2.50
		2480	0.40	0.63	63.49	2.50

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

