



Appendix B

RF Test Data for BLE (Conducted Measurement)

Product Name: 8inch tablet PC

Test Model: SoyMomo_Pro_V1

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li huan

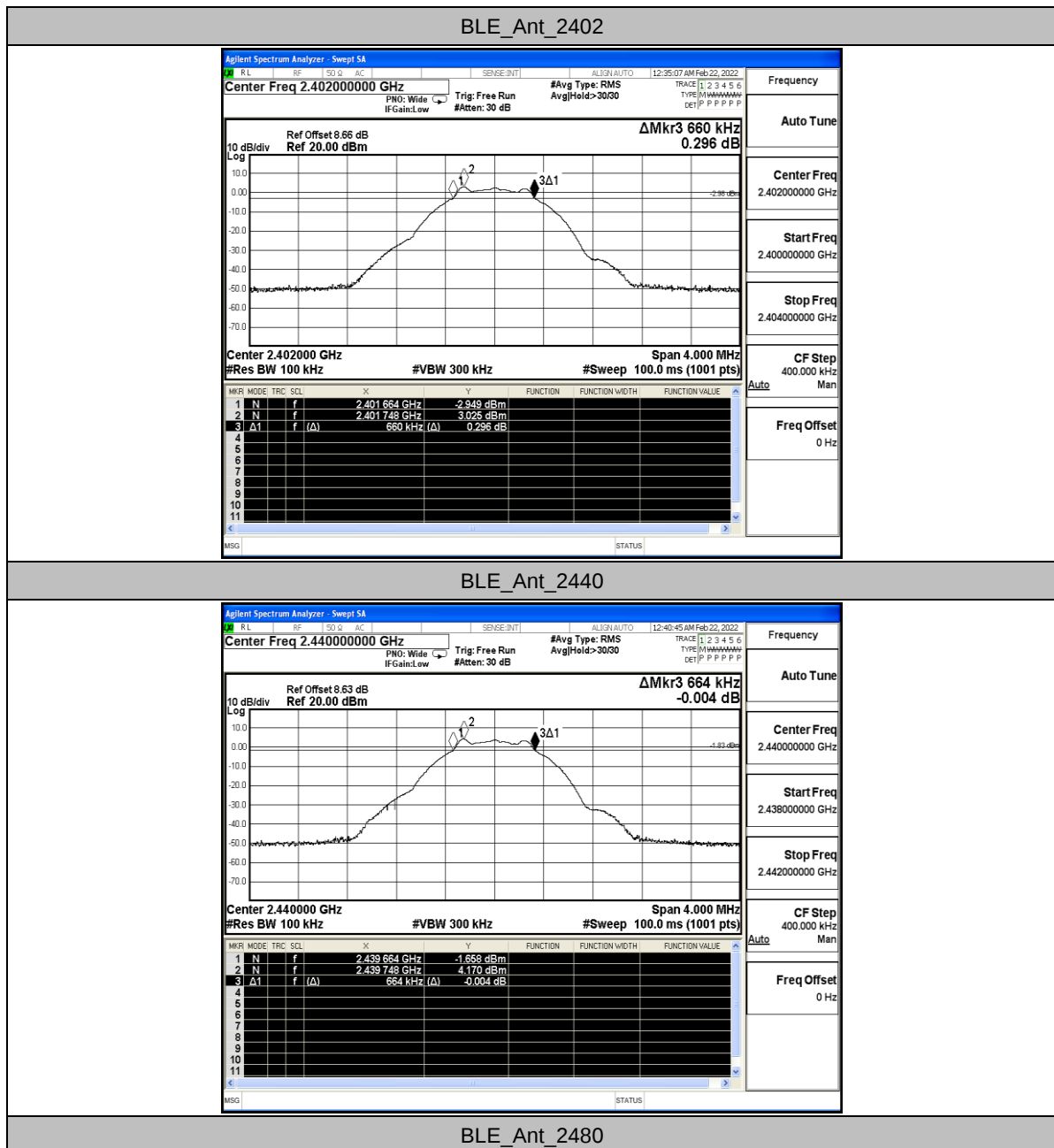


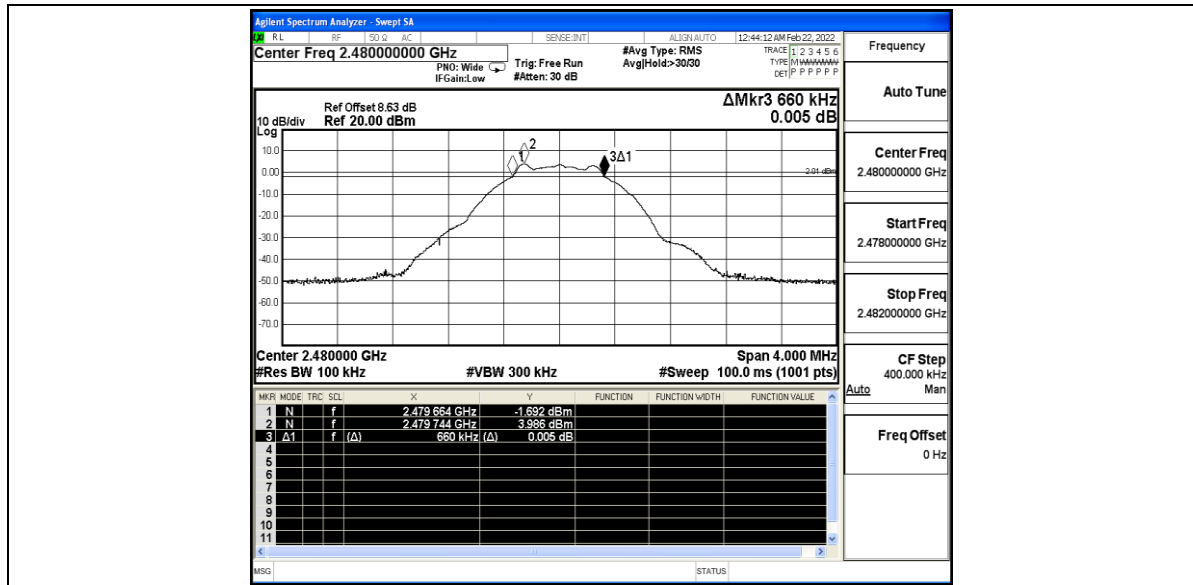
B.1 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant	2402	0.660	2401.664	2402.324	0.5	PASS
		2440	0.664	2439.664	2440.328	0.5	PASS
		2480	0.660	2479.664	2480.324	0.5	PASS

Test Graphs





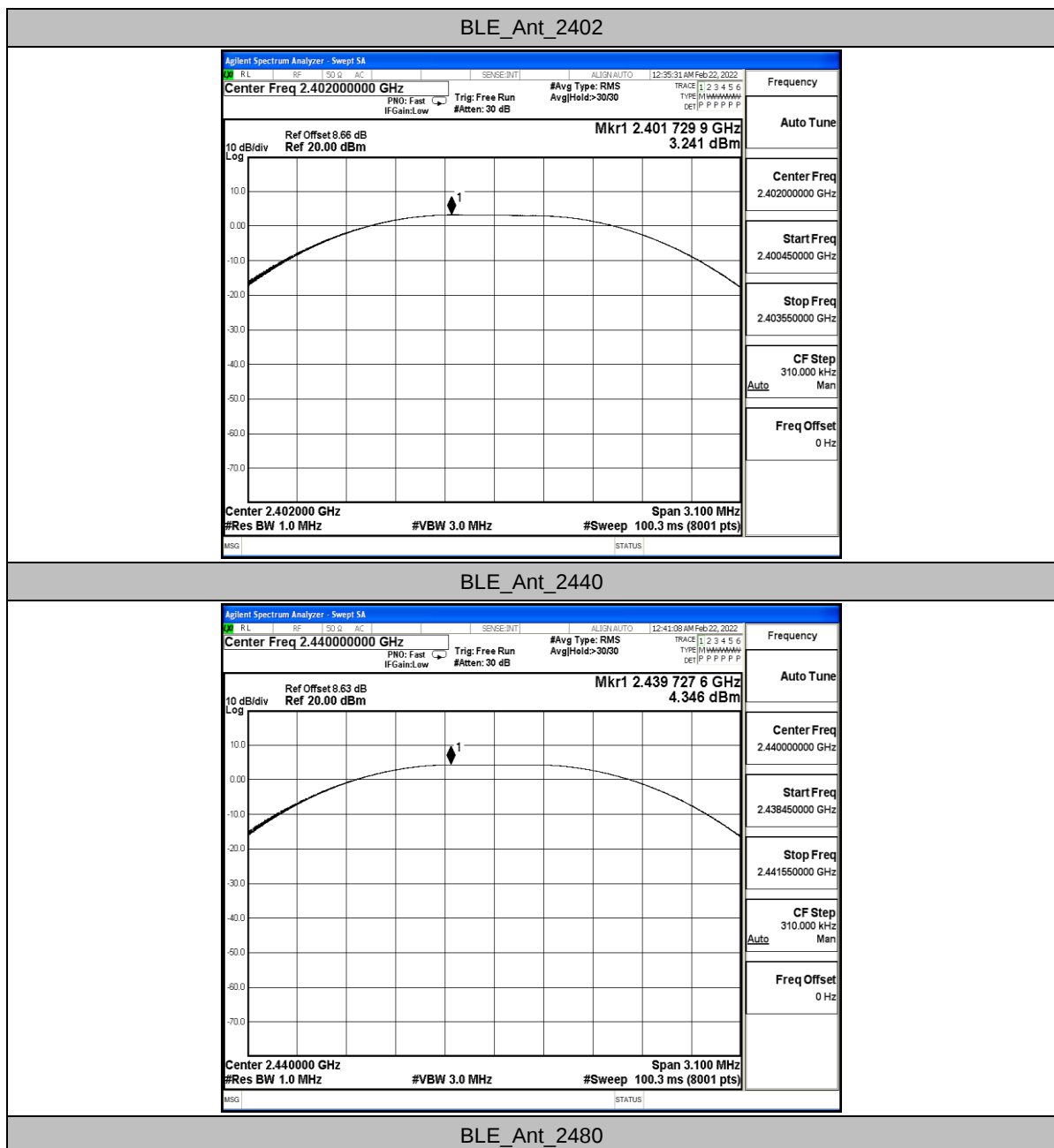


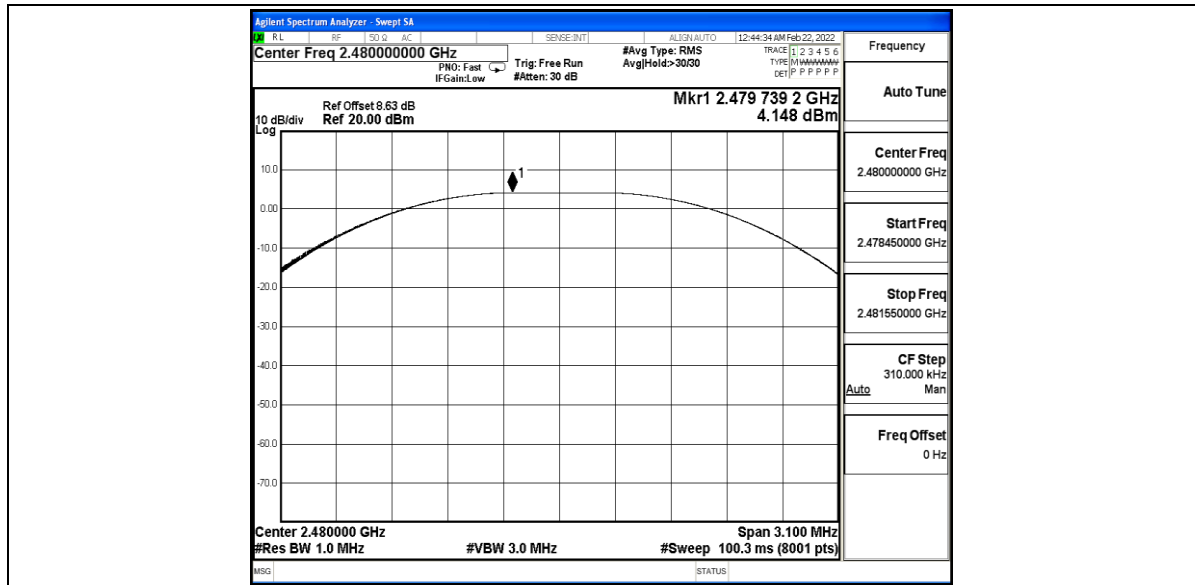
B.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	2402	3.24	≤30	PASS
		2440	4.35	≤30	PASS
		2480	4.15	≤30	PASS

Test Graphs







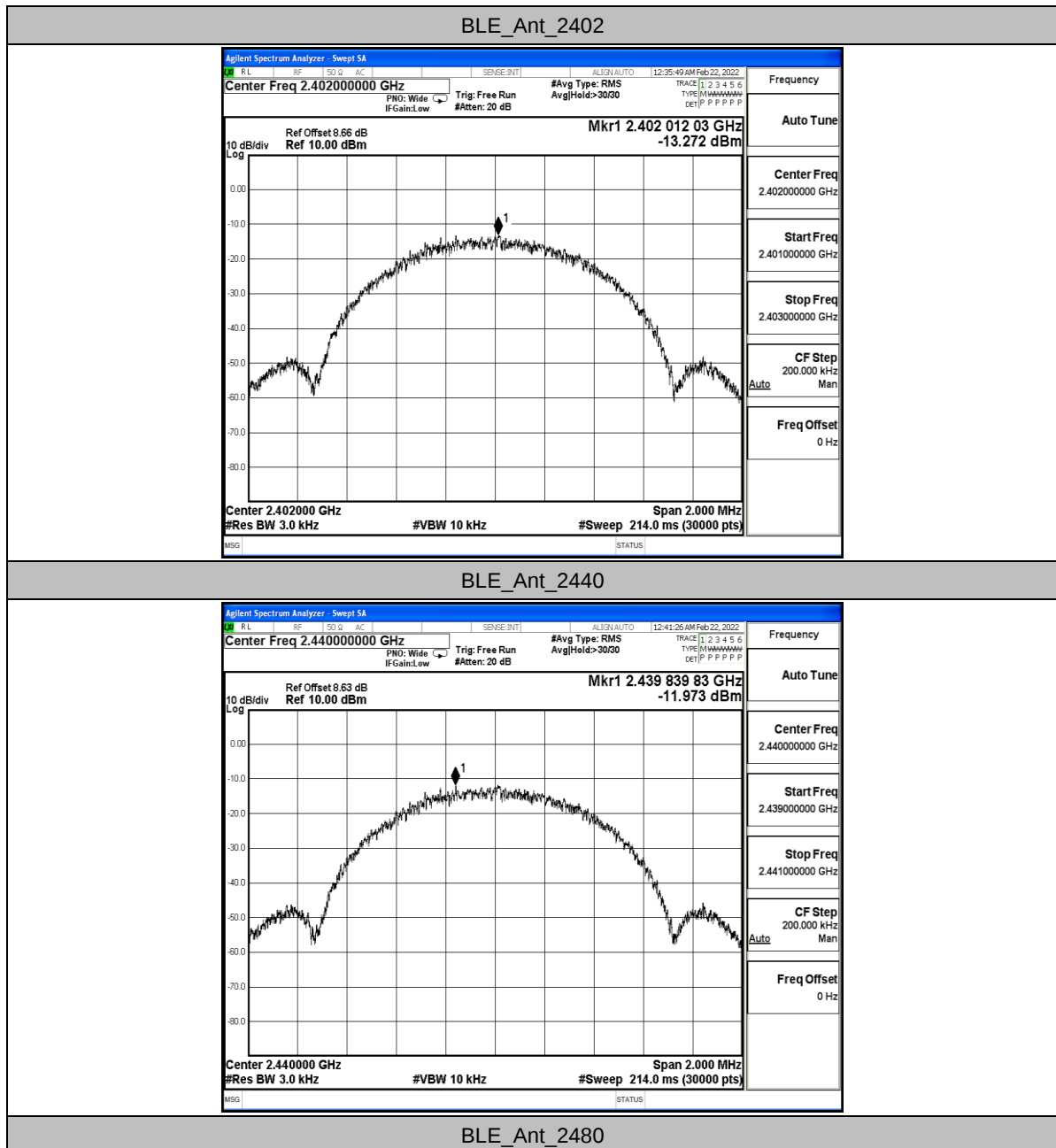
B.3 Maximum power spectral density

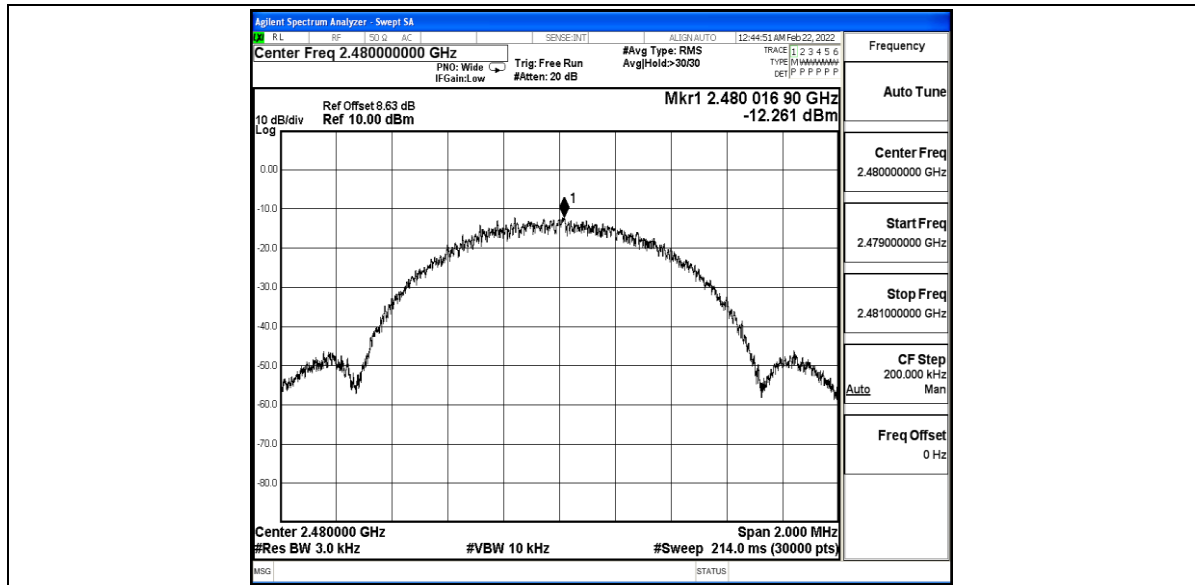
Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant	2402	-13.27	≤8.00	PASS
		2440	-11.97	≤8.00	PASS
		2480	-12.26	≤8.00	PASS



Test Graphs







B.4 Band edge measurements

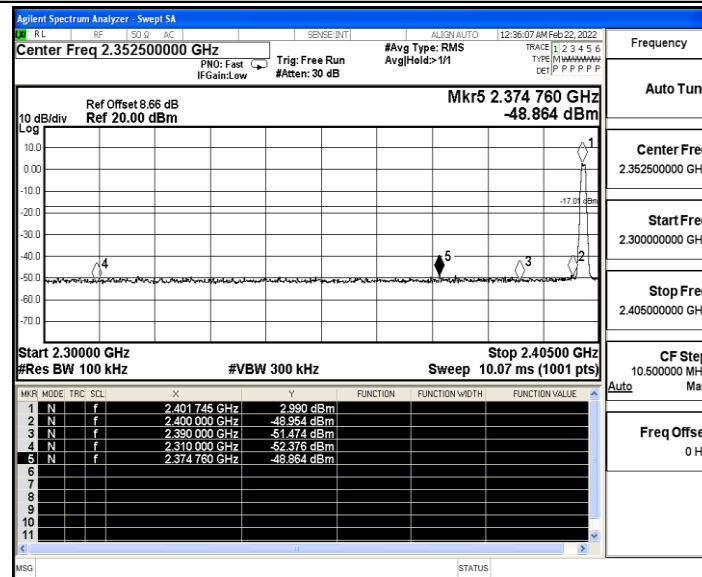
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	Low	2402	2.99	-48.86	≤-17.01	PASS
		High	2480	4.01	-47.82	≤-15.99	PASS

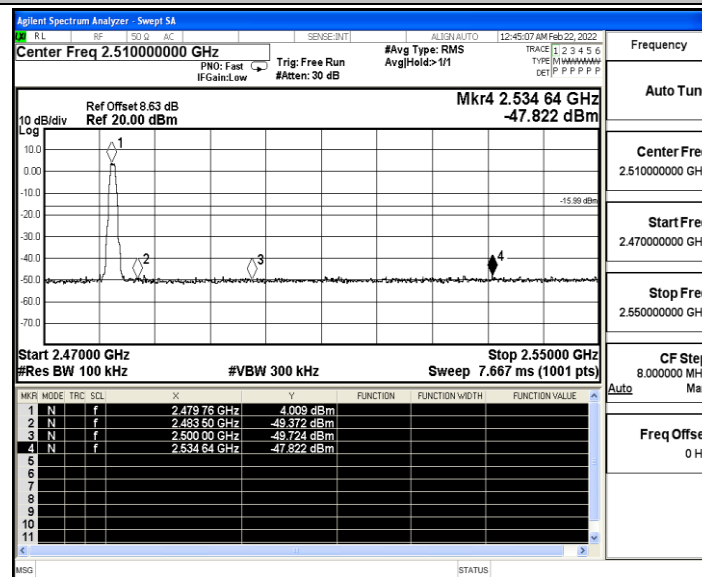


Test Graphs

BLE_Ant_Low_2402



BLE_Ant_High_2480





B.5 Conducted Spurious Emission

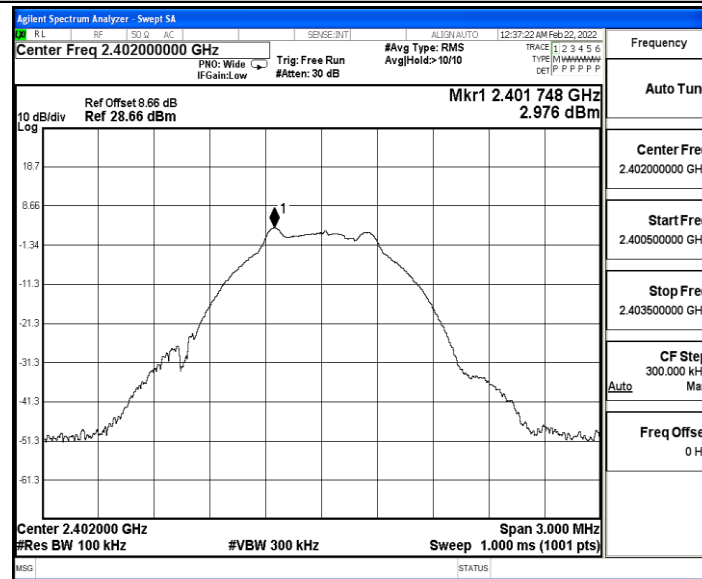
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	2402	Reference	2.98	2.98	---	PASS
			30~1000	2.98	-60.64	≤ -17.02	PASS
			1000~26500	2.98	-46.04	≤ -17.02	PASS
		2440	Reference	4.17	4.17	---	PASS
			30~1000	4.17	-60.48	≤ -15.83	PASS
			1000~26500	4.17	-45.66	≤ -15.83	PASS
		2480	Reference	3.96	3.96	---	PASS
			30~1000	3.96	-60.56	≤ -16.04	PASS
			1000~26500	3.96	-45.91	≤ -16.04	PASS

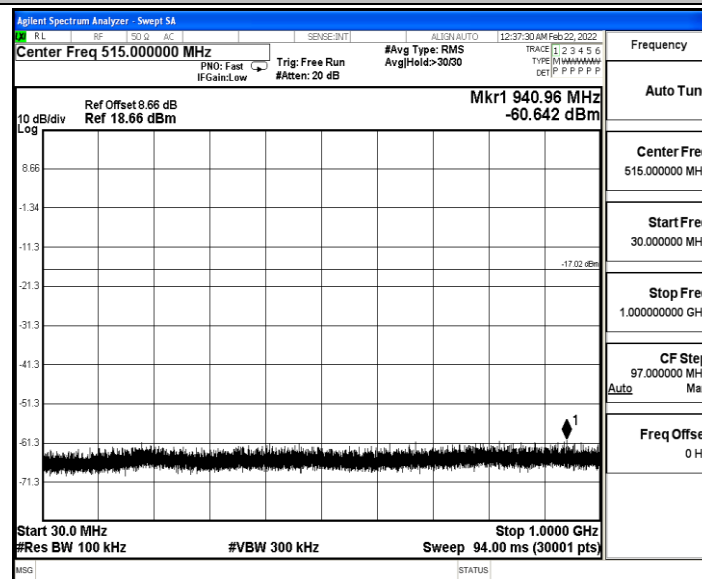


Test Graphs

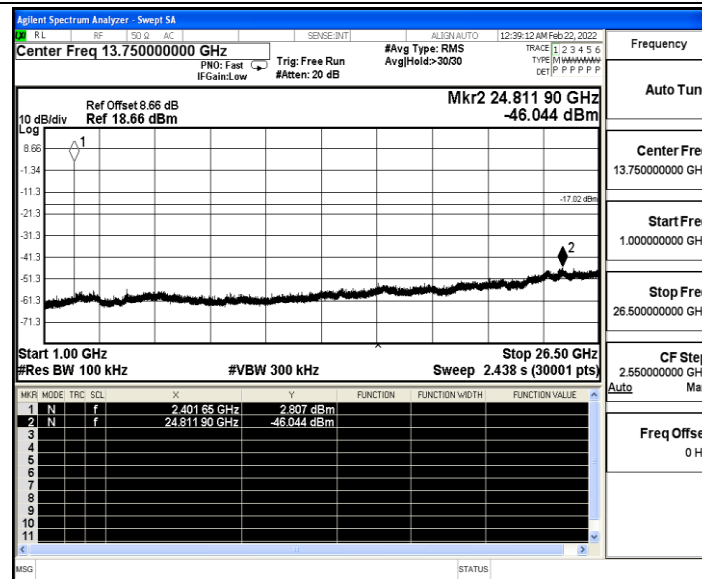
BLE_Ant_2402_0-Reference



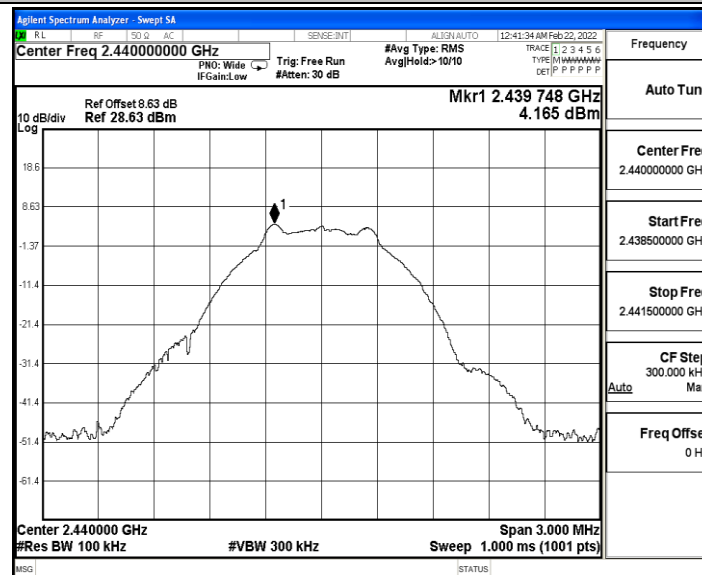
BLE_Ant_2402_30~1000



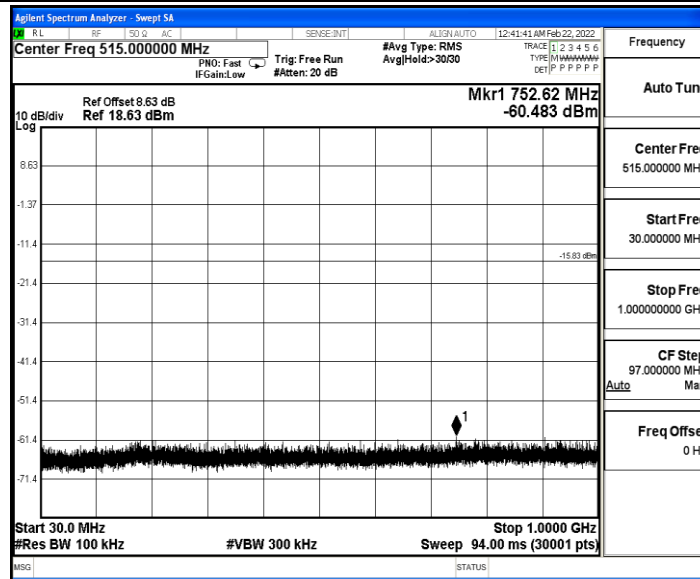
BLE_Ant_2402_1000~26500



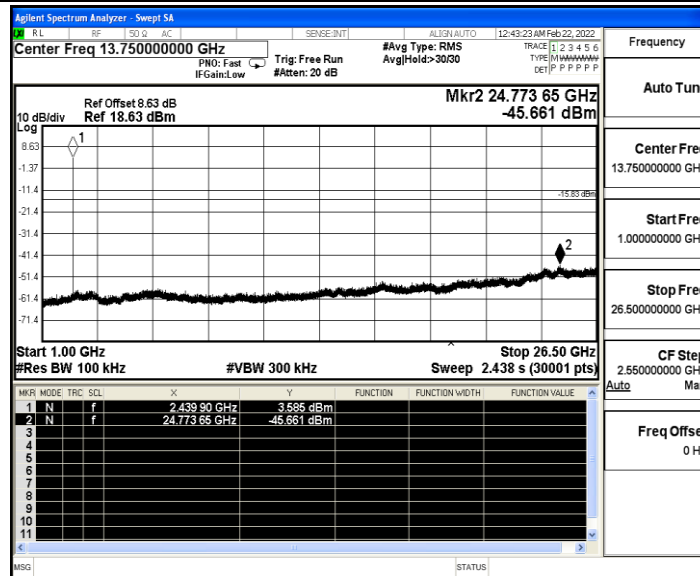
BLE_Ant_2440_0-Reference



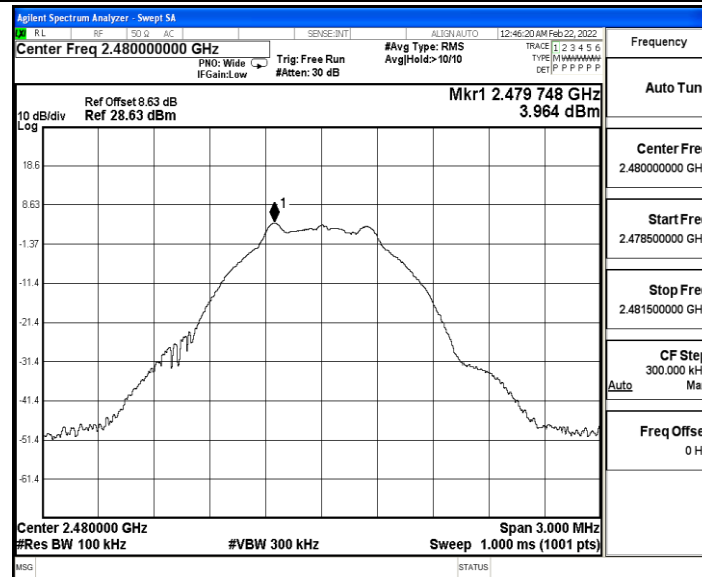
BLE_Ant_2440_30-1000



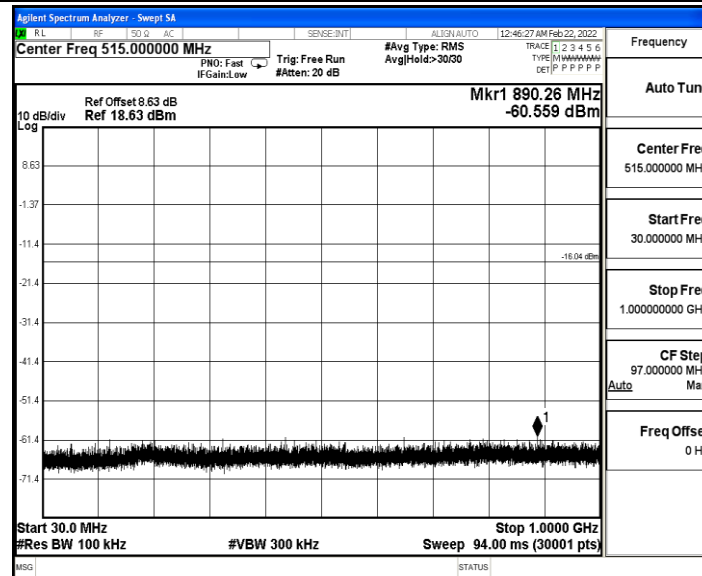
BLE_Ant_2440_1000~26500



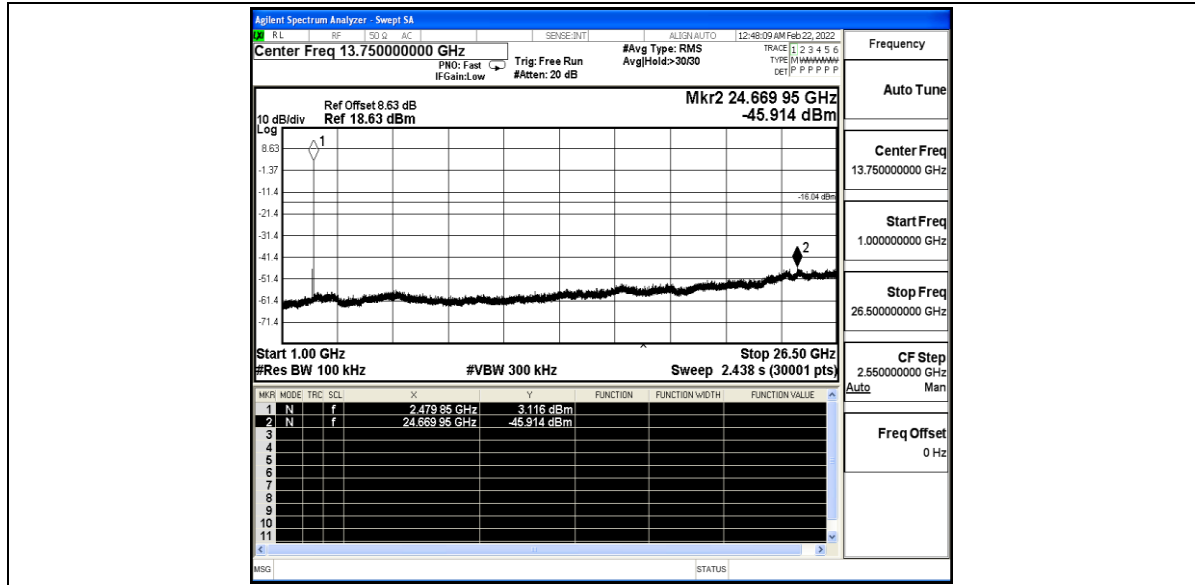
BLE_Ant_2480_0~Reference



BLE_Ant_2480_30~1000



BLE_Ant_2480_1000~26500



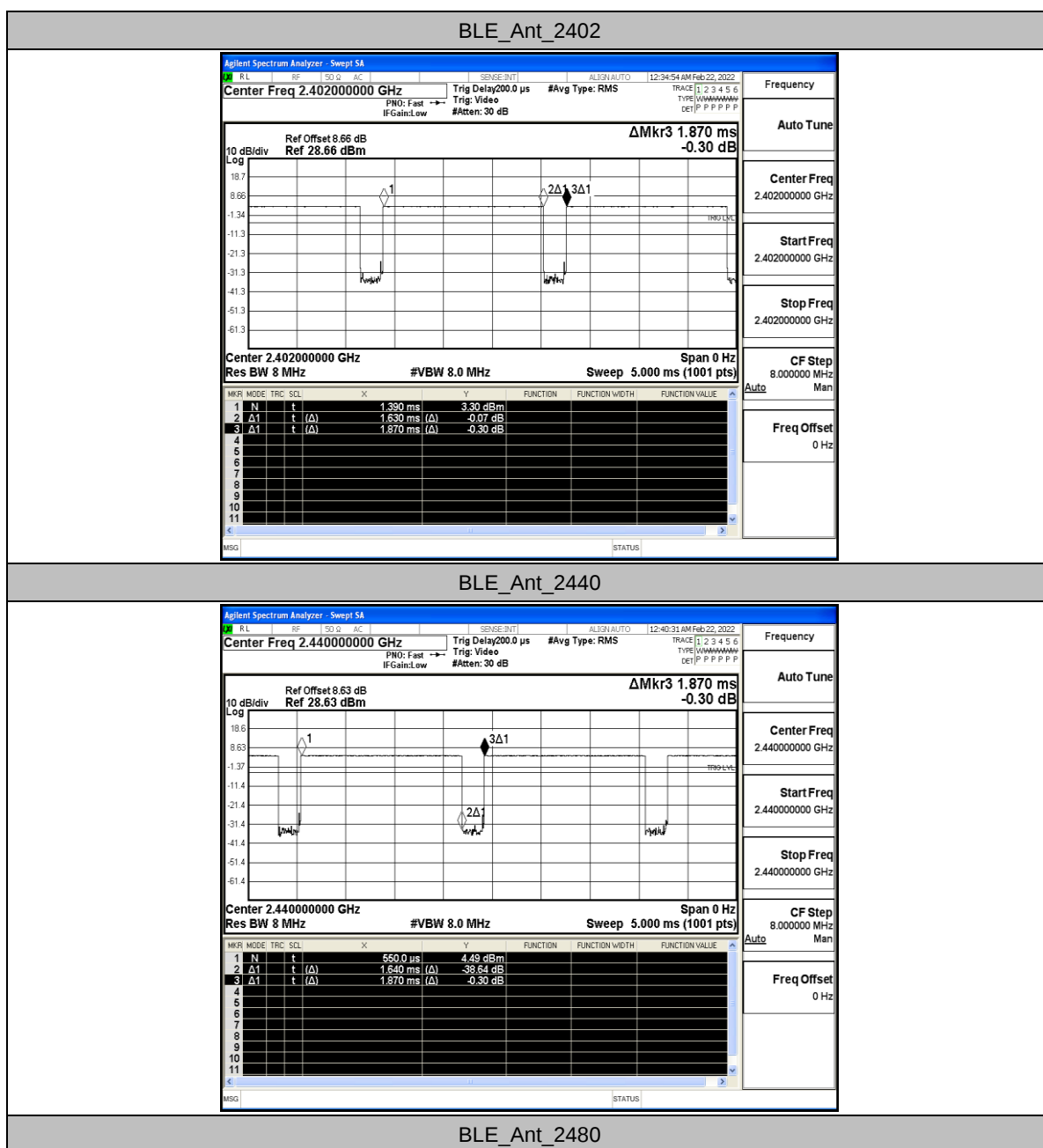


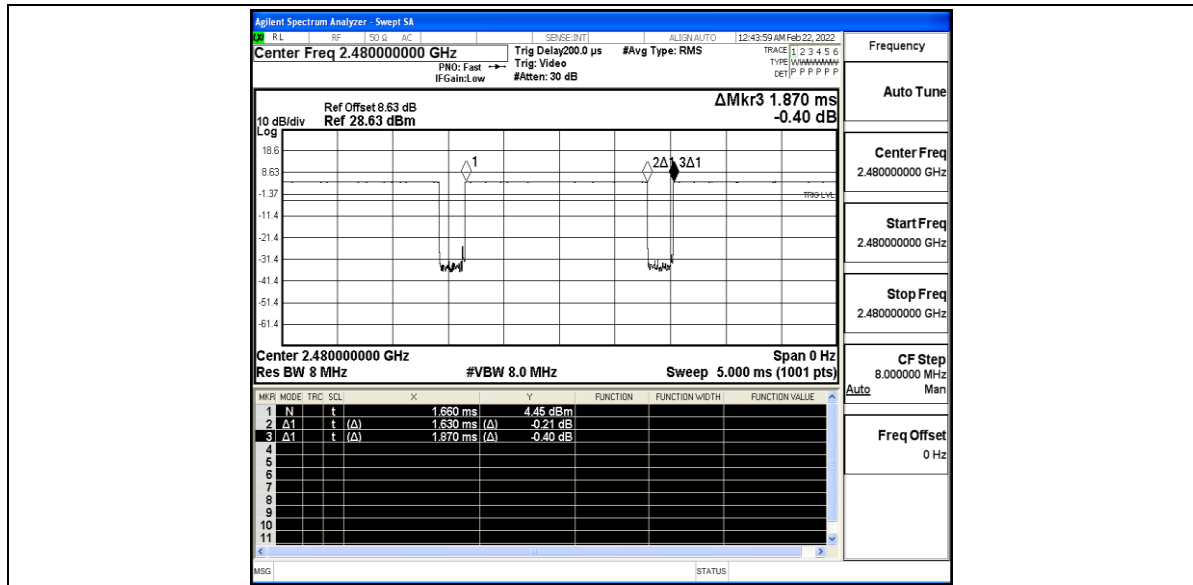
B.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE	Ant	2402	1.63	1.87	0.8717	87.17	0.60	---	---
		2440	1.64	1.87	0.8770	87.70	0.57	---	---
		2480	1.63	1.87	0.8717	87.17	0.60	---	---

Test Graphs







B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE	Ant	Low	2402	AV	2310.000	-48.07	47.13	≤54	PASS
				AV	2389.985	-47.69	47.51	≤54	PASS
				AV	2390.000	-47.69	47.51	≤54	PASS
				Peak	2310.000	-39.46	55.74	≤74	PASS
				Peak	2379.065	-37.02	58.18	≤74	PASS
				Peak	2390.000	-38.92	56.28	≤74	PASS
		High	2480	AV	2483.500	-46.03	49.17	≤54	PASS
				AV	2483.520	-46.03	49.17	≤54	PASS
				AV	2500.000	-47.25	47.95	≤54	PASS
				Peak	2483.500	-37.75	57.45	≤74	PASS
				Peak	2483.840	-35.82	59.38	≤74	PASS
				Peak	2500.000	-38.23	56.97	≤74	PASS

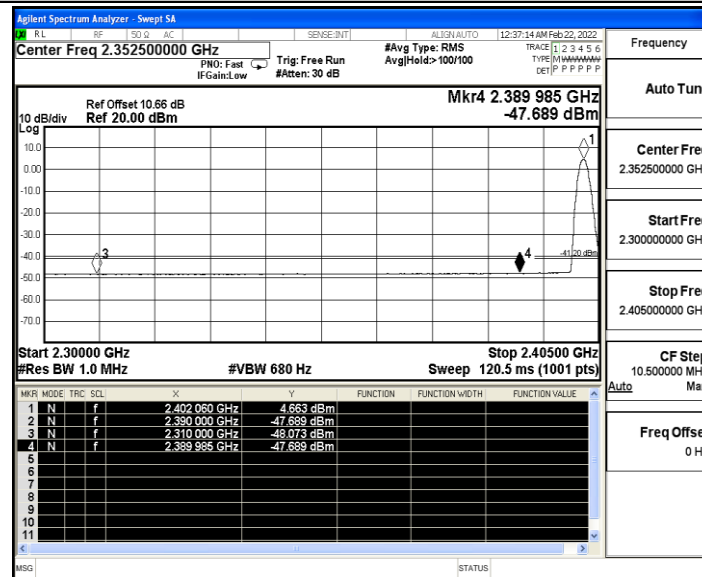
Note:

1. The Antenna Gain is compensated in the graph.
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.

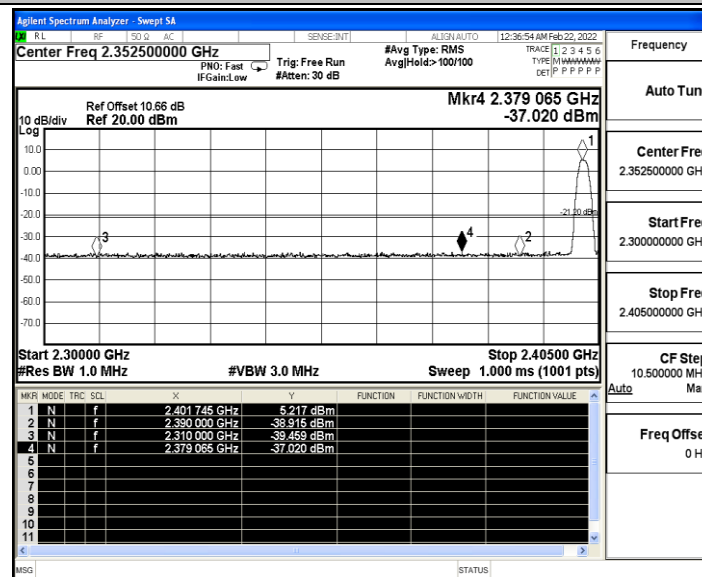


Test Graphs

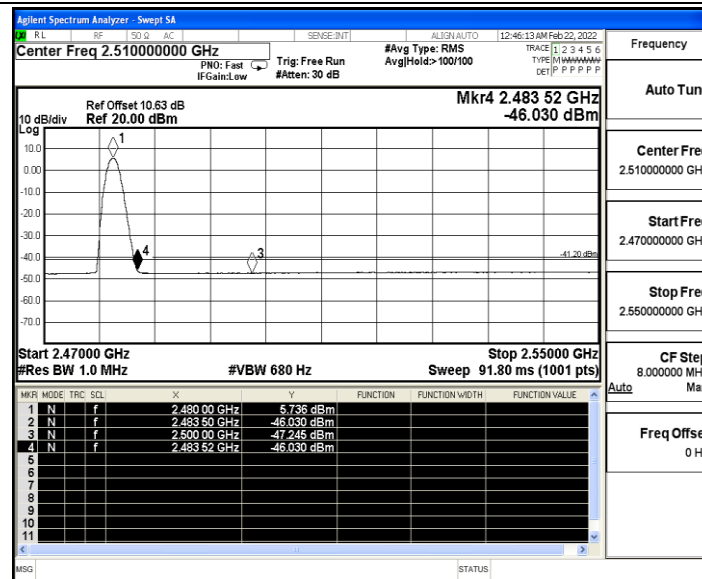
BLE_Ant_Low_2402_AV



BLE_Ant_Low_2402_Peak



BLE_Ant_High_2480_AV



BLE_Ant_High_2480_Peak

