

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

Product Name: Wanbo Projector

Trade Mark: wanbo

Test Model: T2 Max

FCC ID: 2A7PIT2MAX

Environmental Conditions

Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

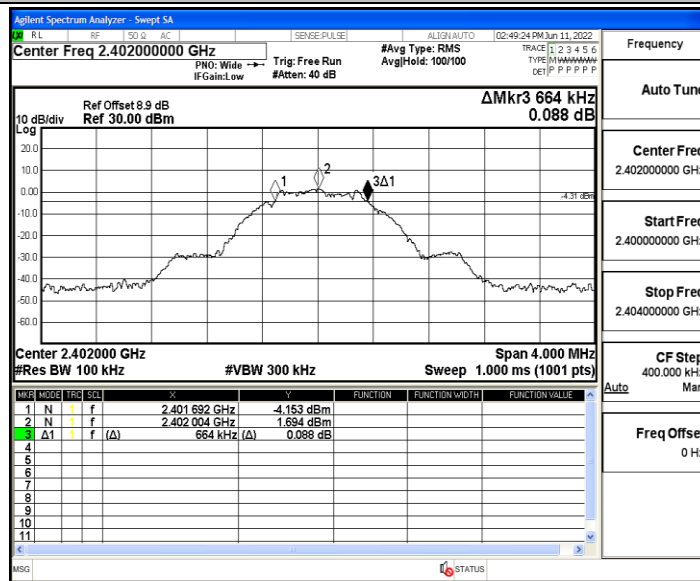
Appendix A: DTS Bandwidth

Test Result

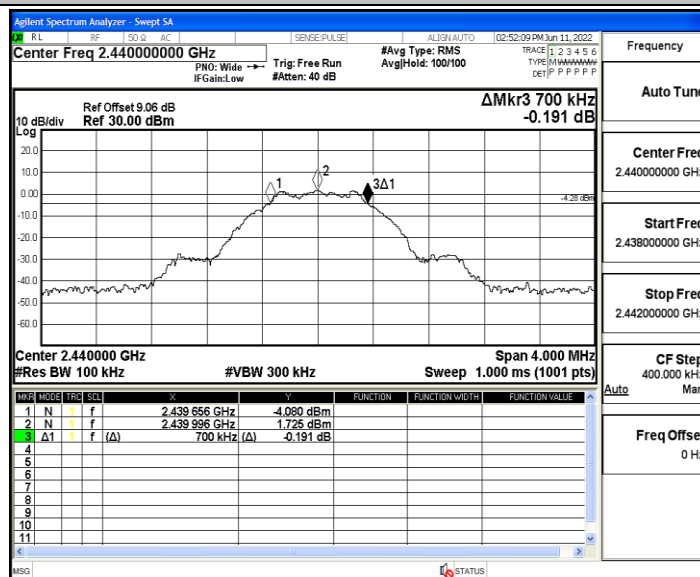
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.692	2402.356	0.5	PASS
		2440	0.700	2439.656	2440.356	0.5	PASS
		2480	0.700	2479.636	2480.336	0.5	PASS

Test Graphs

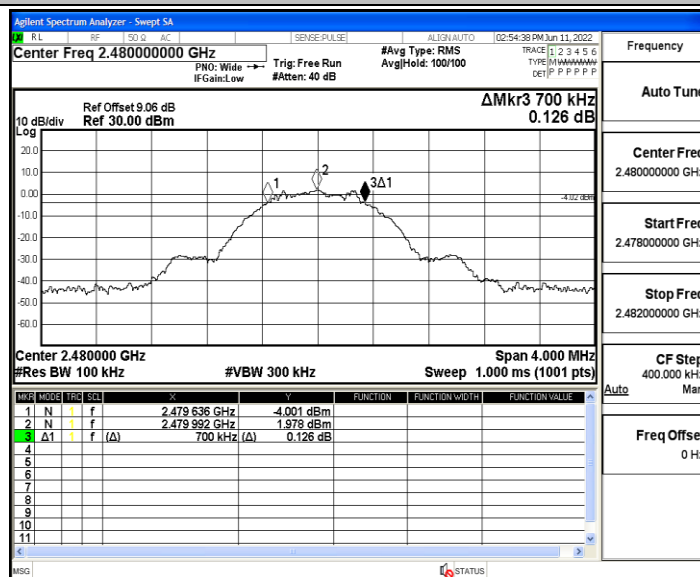
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



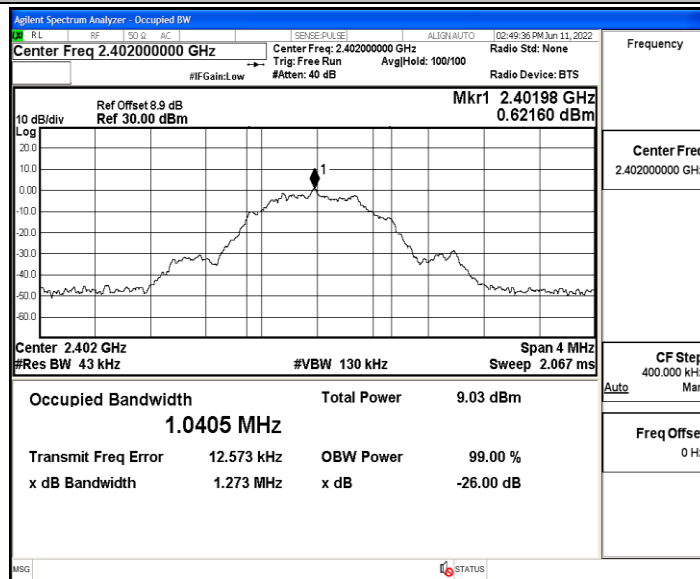
Appendix B: Occupied Channel Bandwidth

Test Result

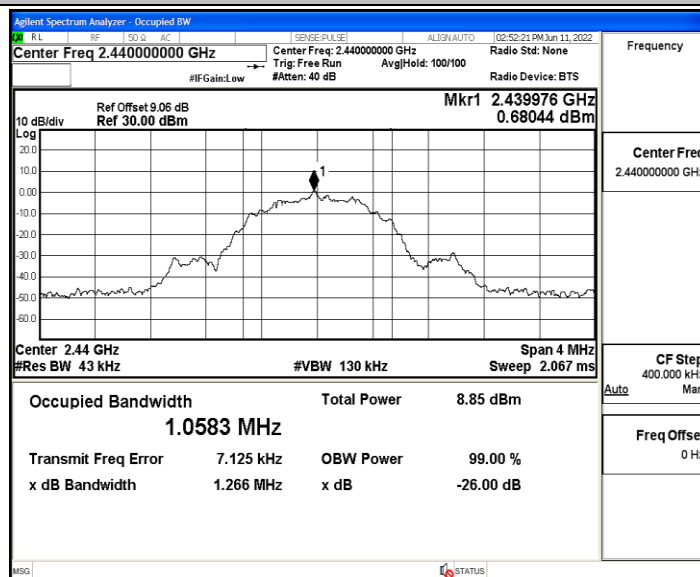
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0405	2401.492	2402.533	---	---
		2440	1.0583	2439.478	2440.536	---	---
		2480	1.0430	2479.485	2480.528	---	---

Test Graphs

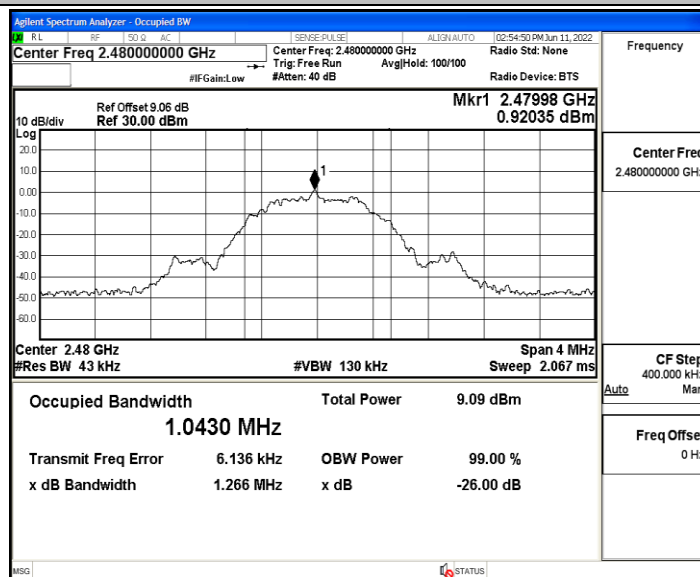
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



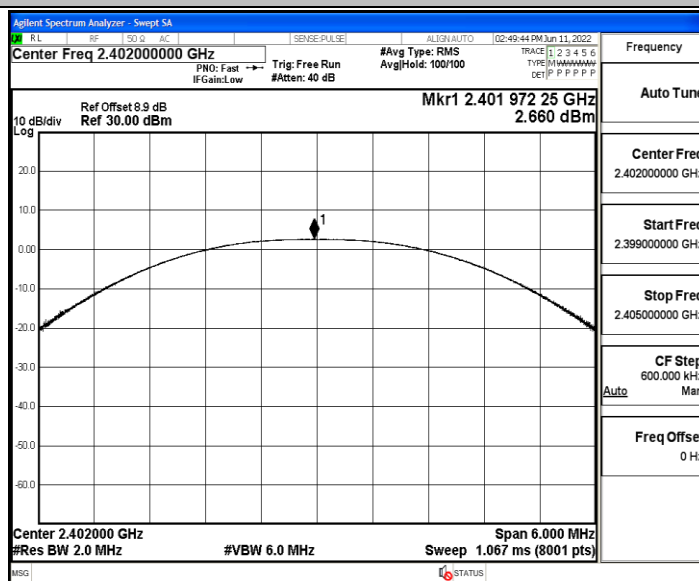
Appendix C: Maximum Peak conducted output power

Test Result

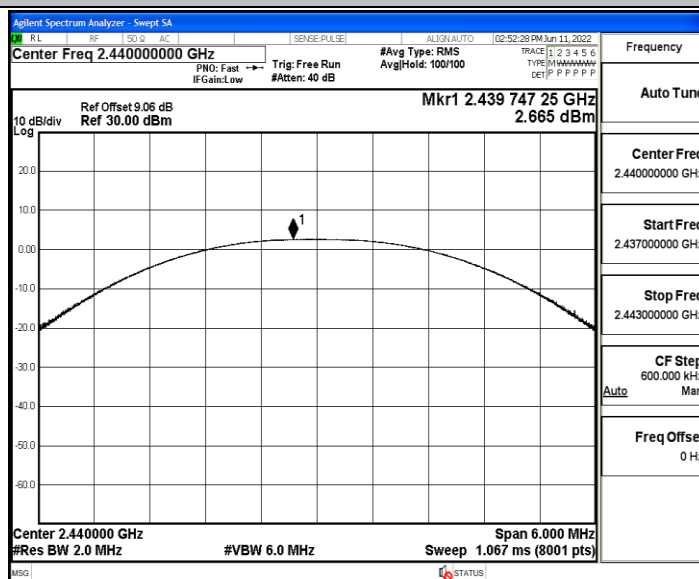
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.66	≤30	PASS
		2440	2.67	≤30	PASS
		2480	2.92	≤30	PASS

Test Graphs

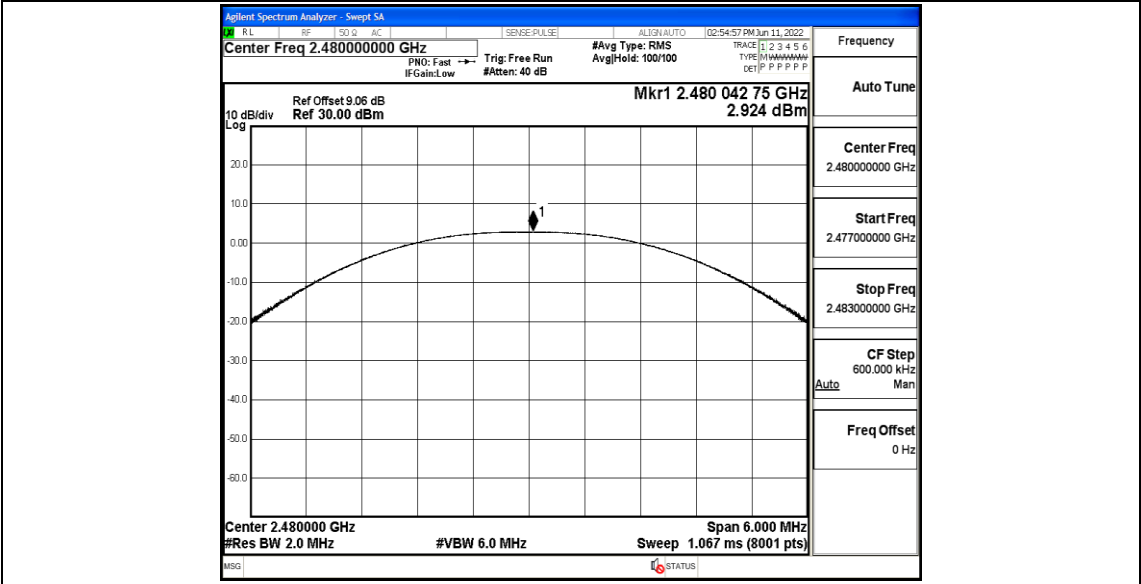
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

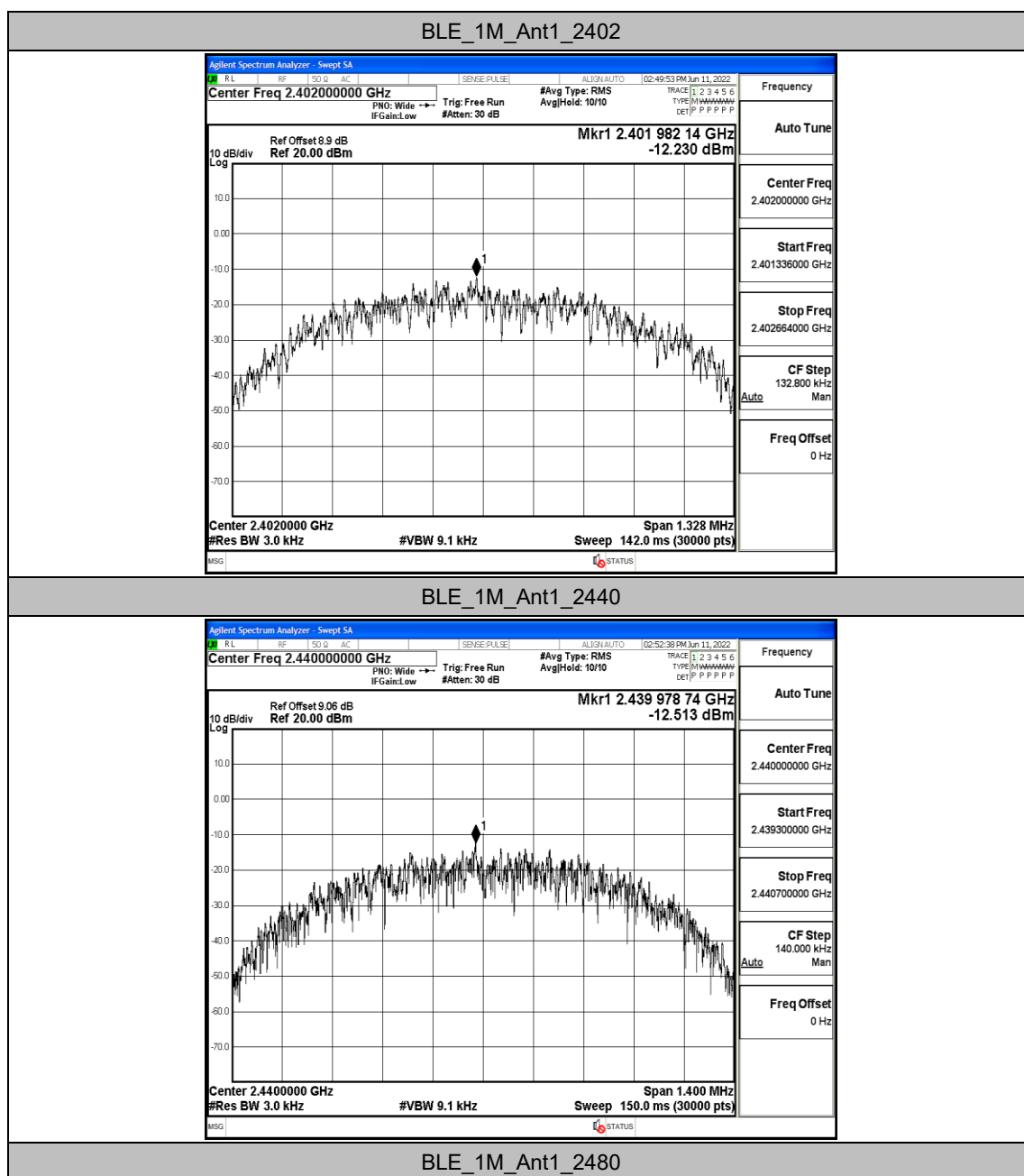


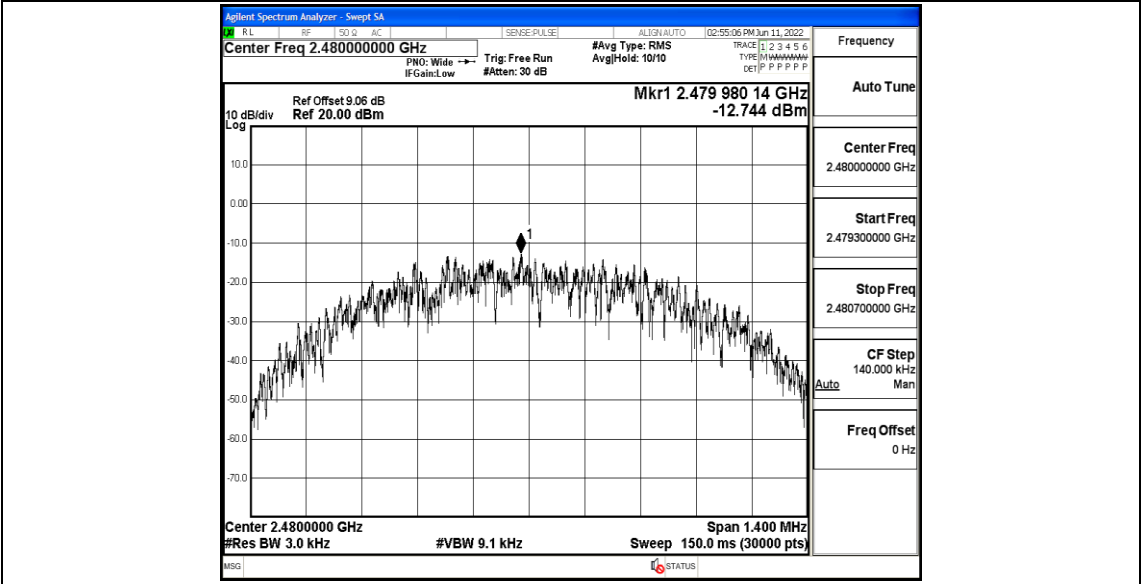
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.23	≤8.00	PASS
		2440	-12.51	≤8.00	PASS
		2480	-12.74	≤8.00	PASS

Test Graphs



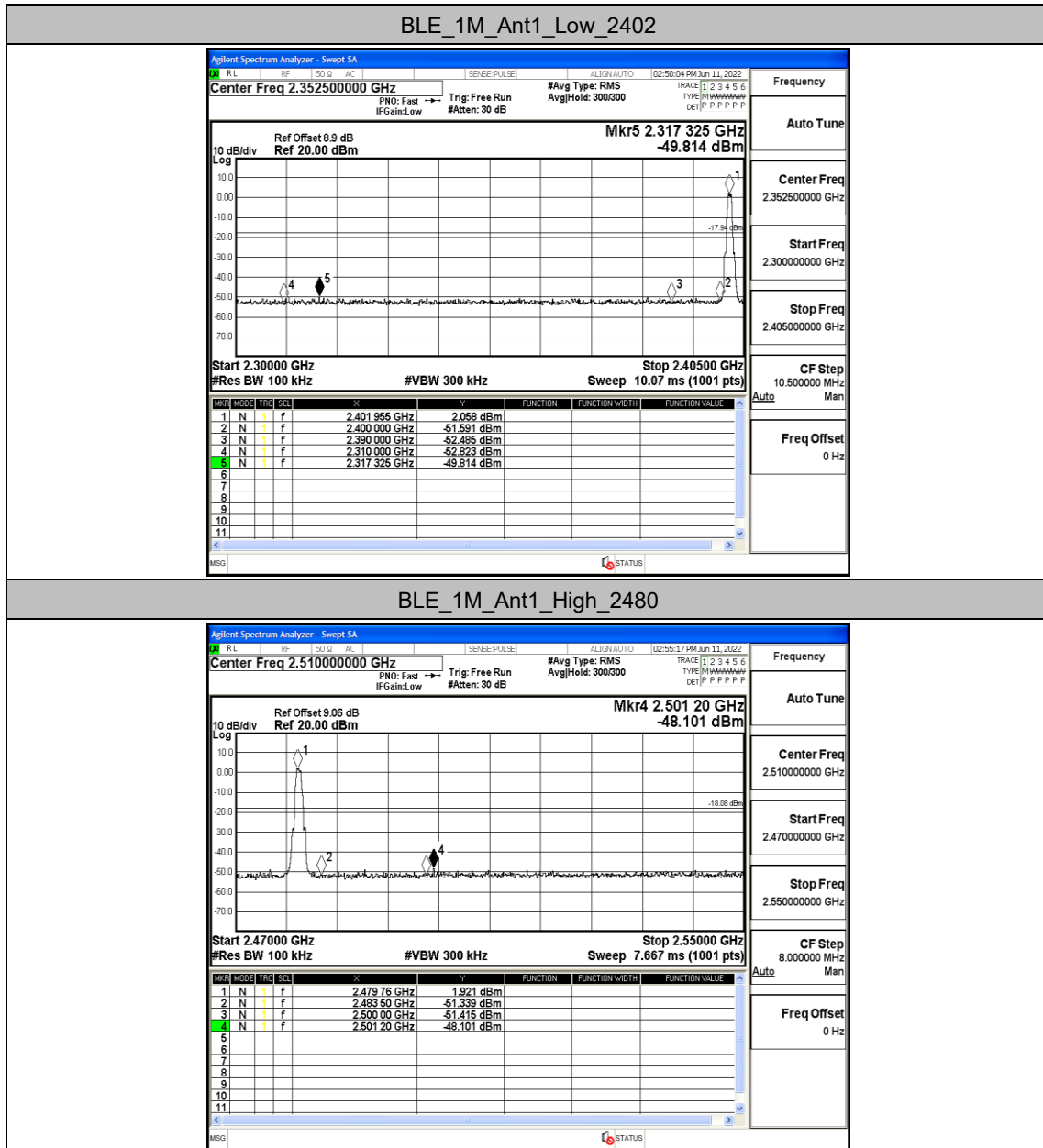


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.06	-49.81	≤-17.94	PASS
		High	2480	1.92	-48.1	≤-18.08	PASS

Test Graphs

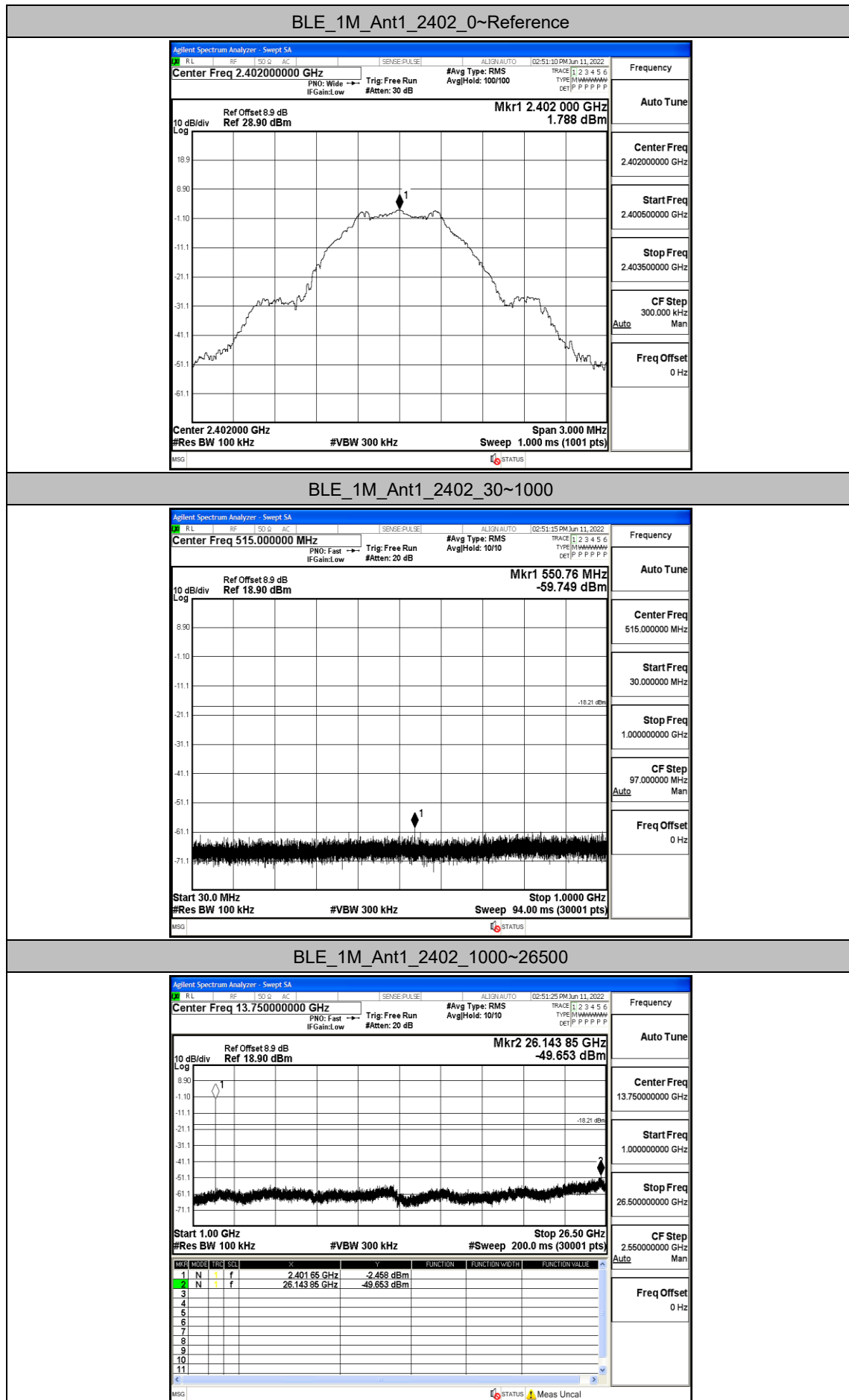


Appendix F: Conducted Spurious Emission

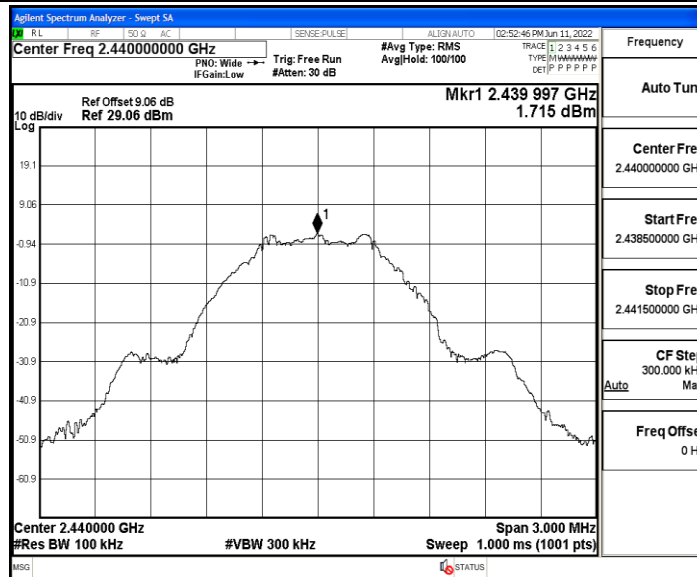
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	1.79	1.79	---	PASS
			30~1000	1.79	-59.75	≤-18.21	PASS
			1000~26500	1.79	-49.65	≤-18.21	PASS
		2440	Reference	1.72	1.72	---	PASS
			30~1000	1.72	-61.29	≤-18.28	PASS
			1000~26500	1.72	-49.79	≤-18.28	PASS
		2480	Reference	1.88	1.88	---	PASS
			30~1000	1.88	-60.67	≤-18.12	PASS
			1000~26500	1.88	-49.74	≤-18.12	PASS

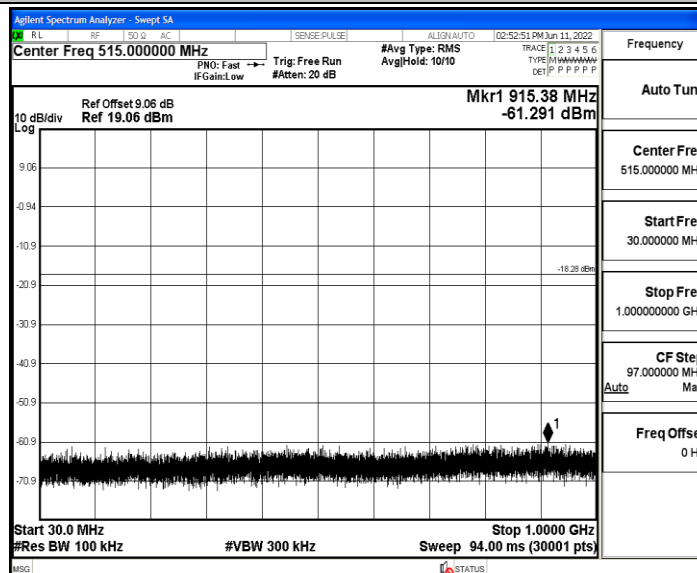
Test Graphs



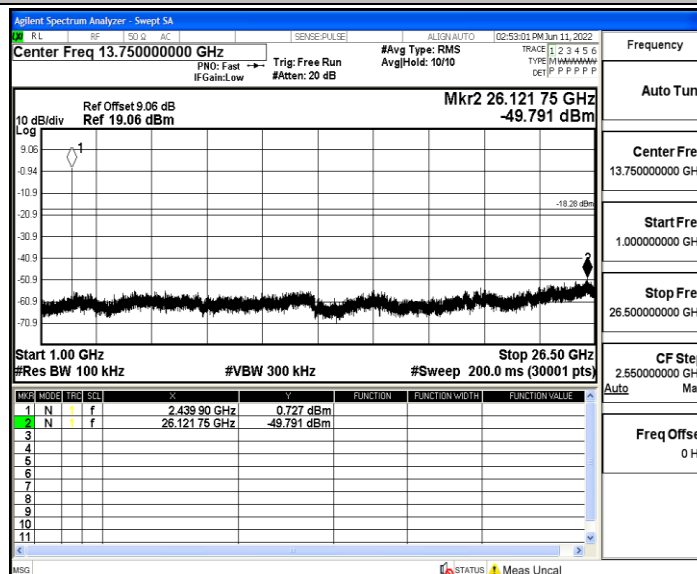
BLE_1M_Ant1_2440_0~Reference



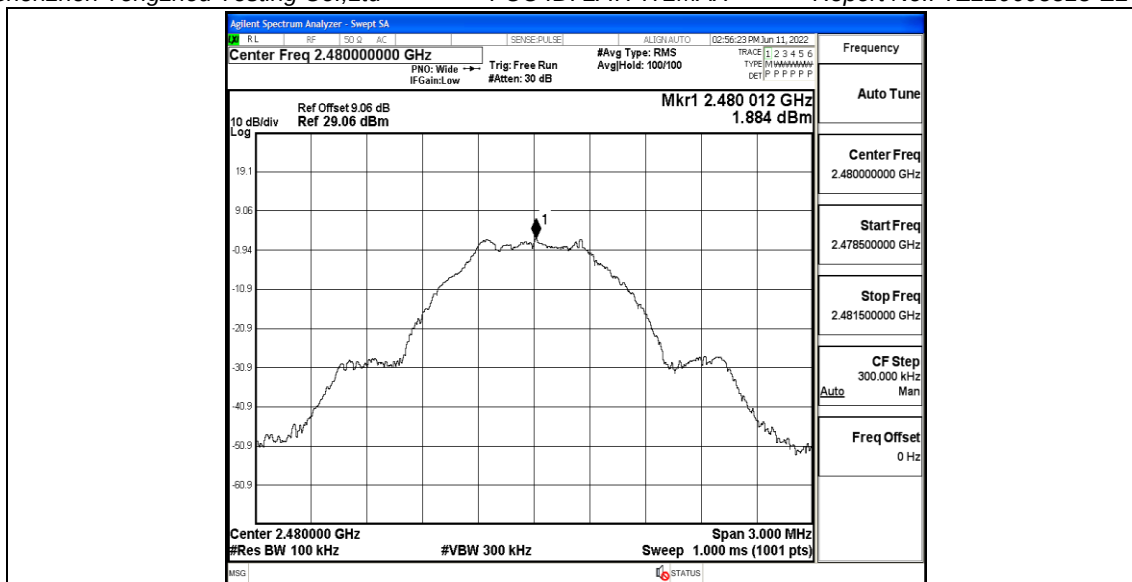
BLE_1M_Ant1_2440_30~1000



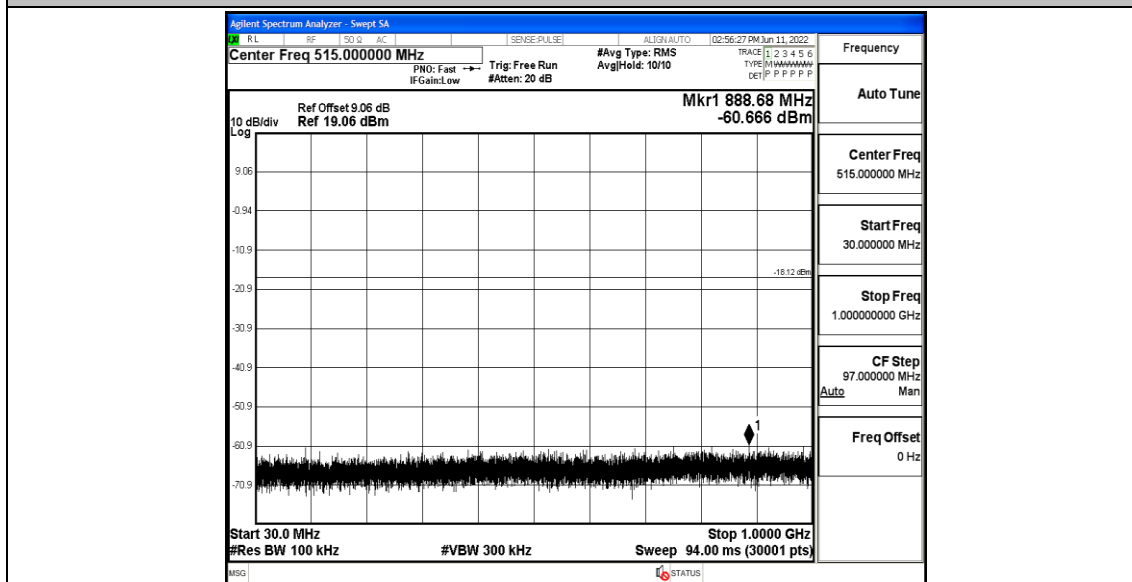
BLE_1M_Ant1_2440_1000~26500



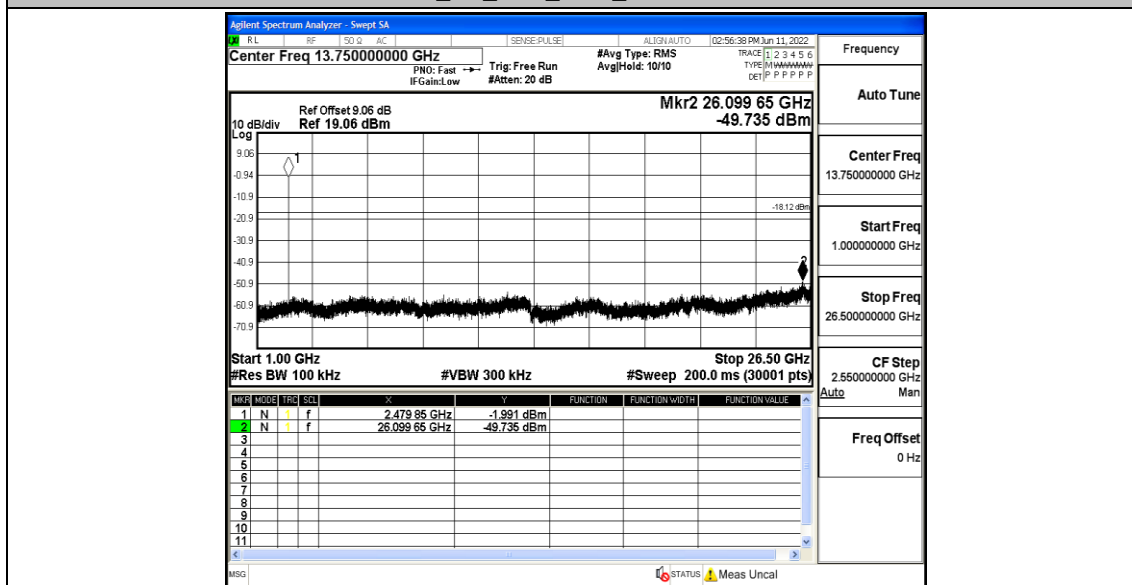
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

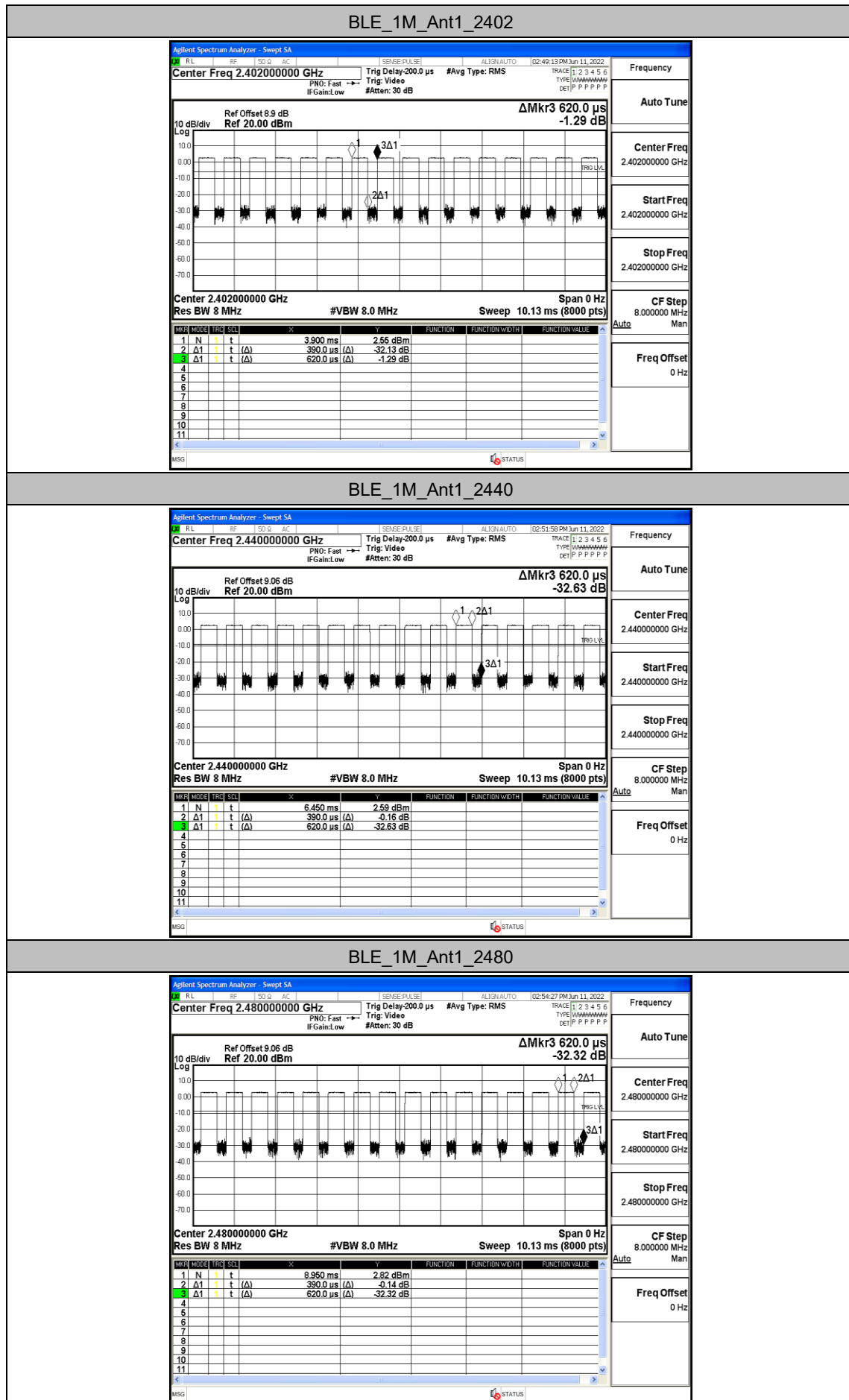


Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
BLE_1M	Ant1	2402	0.39	0.62	62.90	2.56
		2440	0.39	0.62	62.90	2.56
		2480	0.39	0.62	62.90	2.56

Test Graphs



Appendix H: Emissions in Restricted Bands

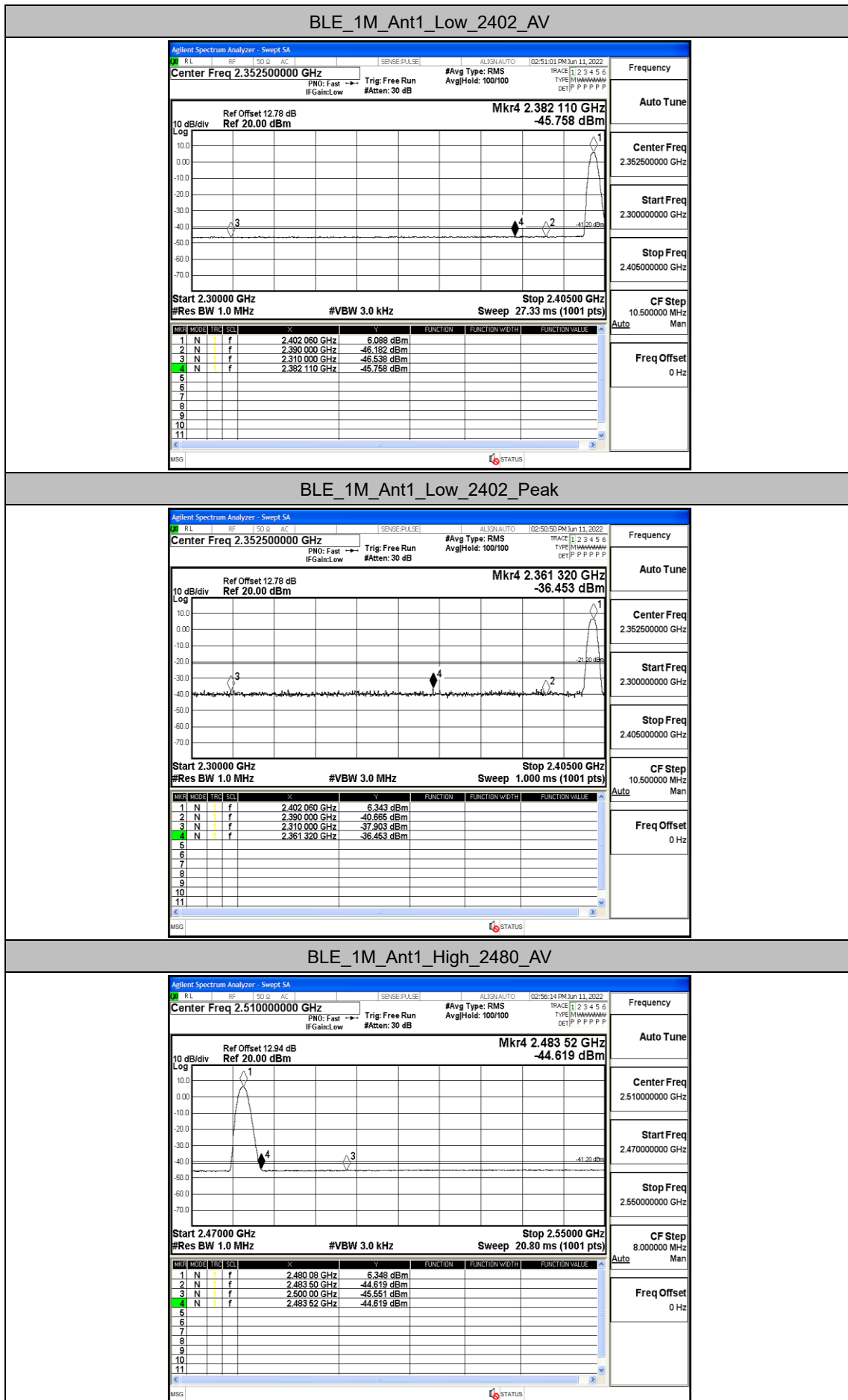
Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-46.54	≤-41.20	PASS
				AV	2382.110	-45.76	≤-41.20	PASS
				AV	2390.000	-46.18	≤-41.20	PASS
				Peak	2310.000	-37.9	≤-21.20	PASS
				Peak	2361.320	-36.45	≤-21.20	PASS
				Peak	2390.000	-40.67	≤-21.20	PASS
		High	2480	AV	2483.500	-44.62	≤-41.20	PASS
				AV	2483.520	-44.62	≤-41.20	PASS
				AV	2500.000	-45.55	≤-41.20	PASS
				Peak	2483.500	-39.74	≤-21.20	PASS
				Peak	2498.080	-36.86	≤-21.20	PASS
				Peak	2500.000	-37.6	≤-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.

Test Graphs



BLE_1M_Ant1_High_2480_Peak

