

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

Product Name: Smart Meditation Massage eye mask

CKGO

Trade Mark:

Test Model: CKGO-Y09

FCC ID: 2BDFY-CKGO-Y09

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

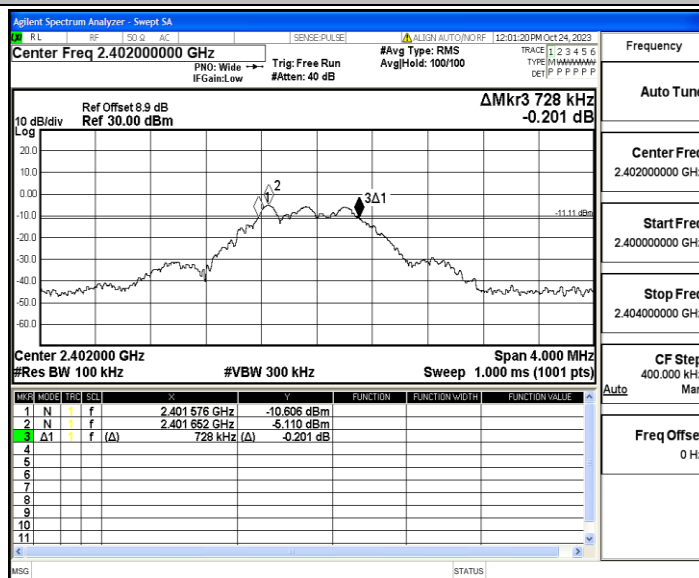
Appendix A: DTS Bandwidth

Test Result

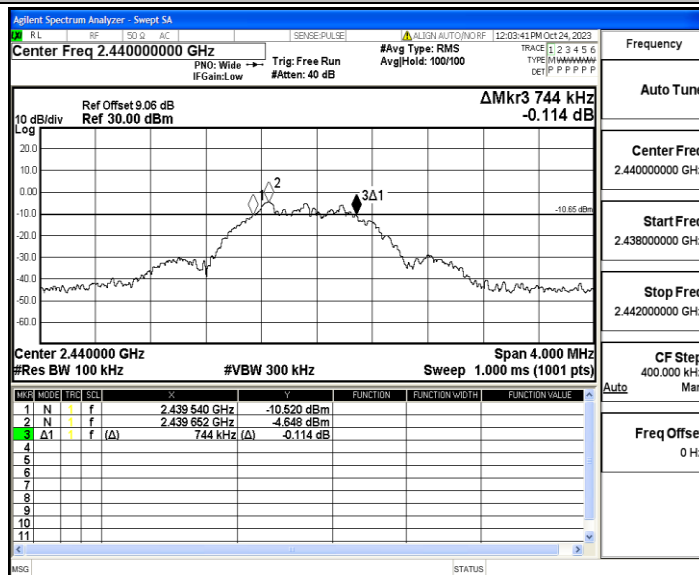
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.728	2401.576	2402.304	0.5	PASS
		2440	0.744	2439.540	2440.284	0.5	PASS
		2480	0.744	2479.548	2480.292	0.5	PASS

Test Graphs

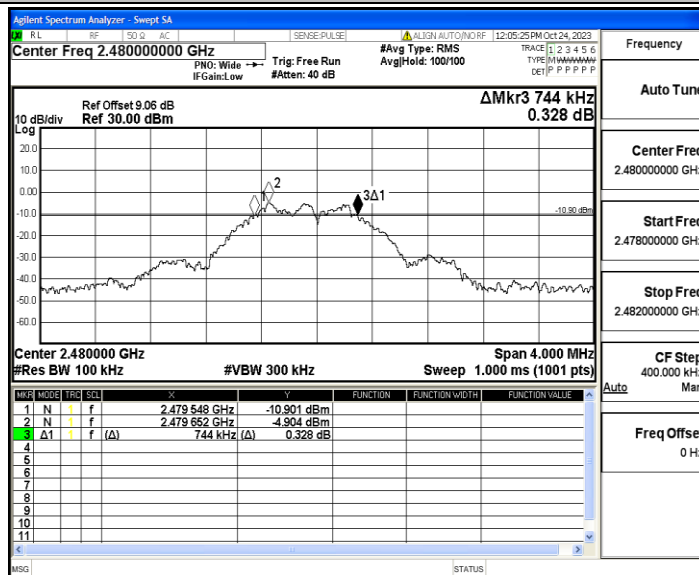
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

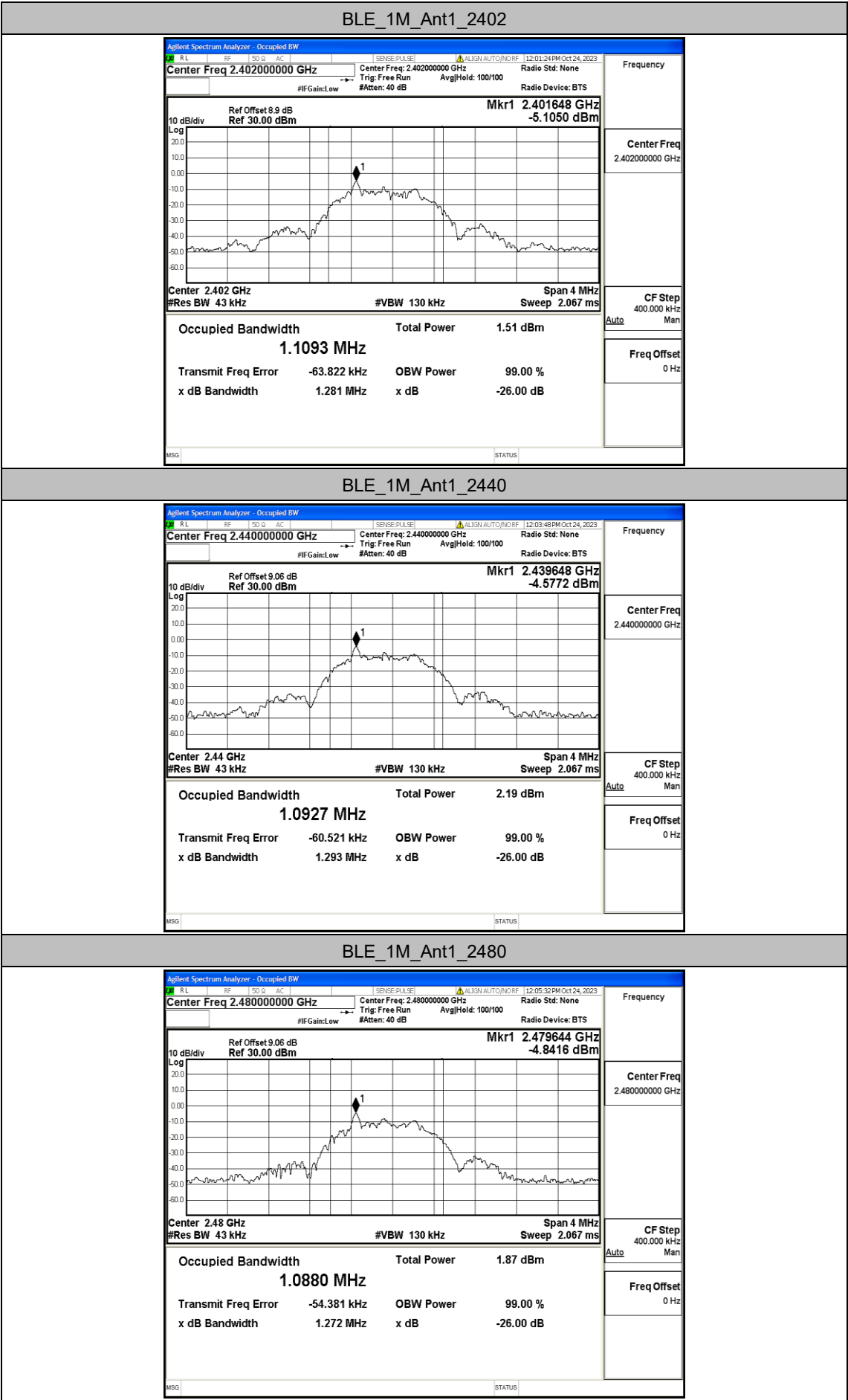


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.1093	2401.3815	2402.4908	---	---
		2440	1.0927	2439.3931	2440.4858	---	---
		2480	1.0880	2479.4016	2480.4896	---	---

Test Graphs

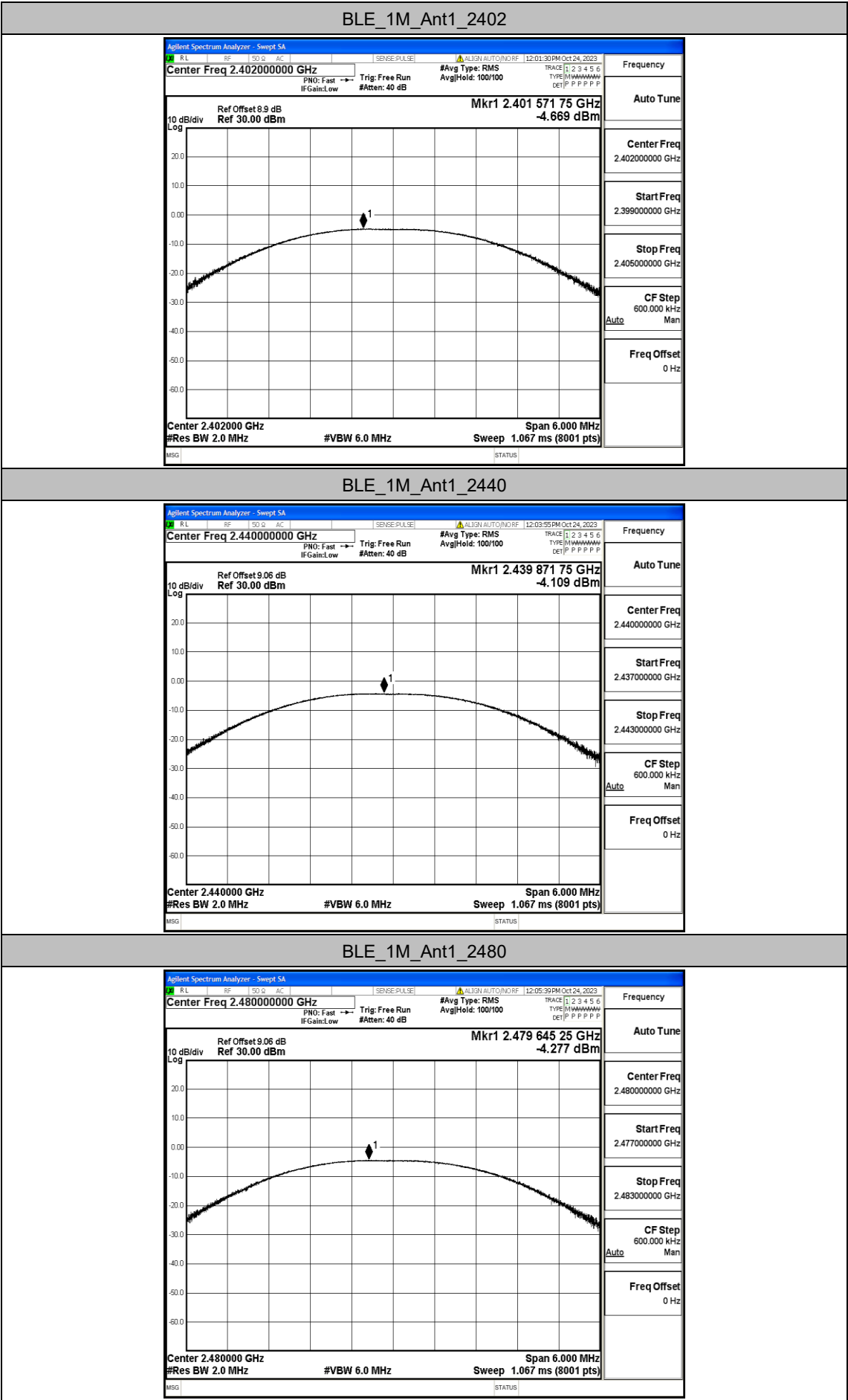


Appendix C: Maximum Peak conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-4.67	≤30	PASS
		2440	-4.11	≤30	PASS
		2480	-4.28	≤30	PASS

Test Graphs

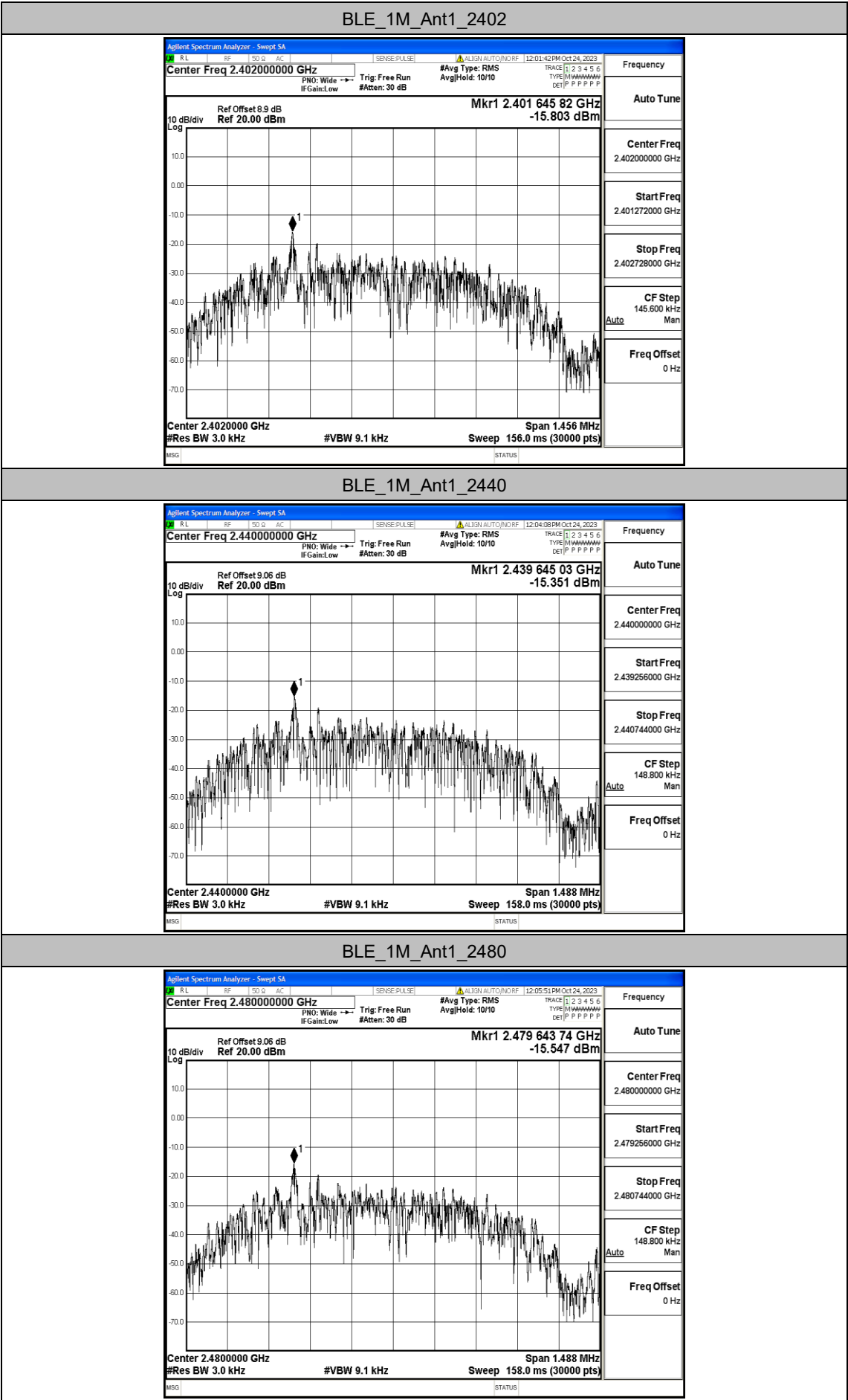


Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.8	≤8.00	PASS
		2440	-15.35	≤8.00	PASS
		2480	-15.55	≤8.00	PASS

Test Graphs

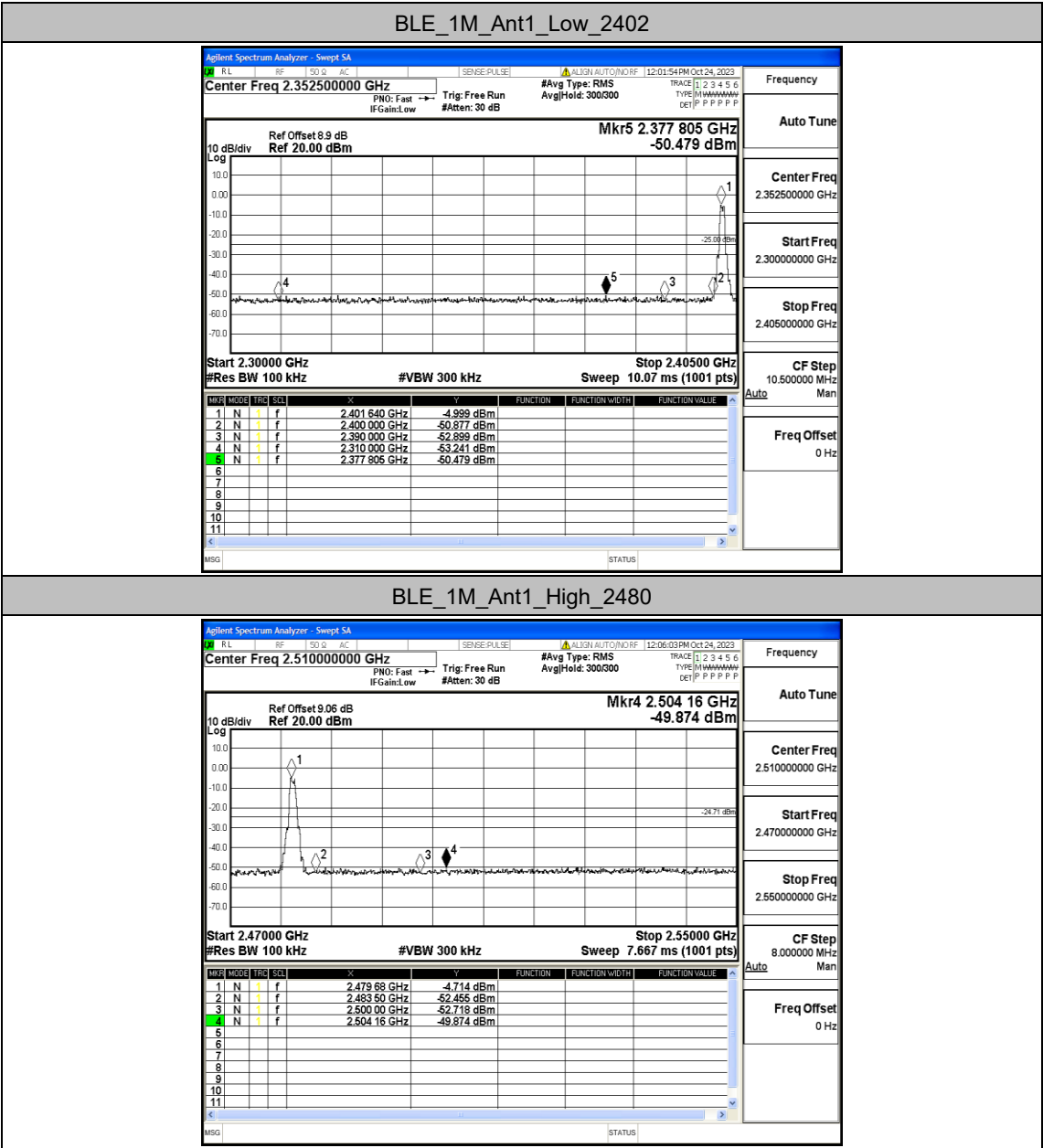


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-5.00	-50.48	≤-25	PASS
		High	2480	-4.71	-49.87	≤-24.71	PASS

Test Graphs

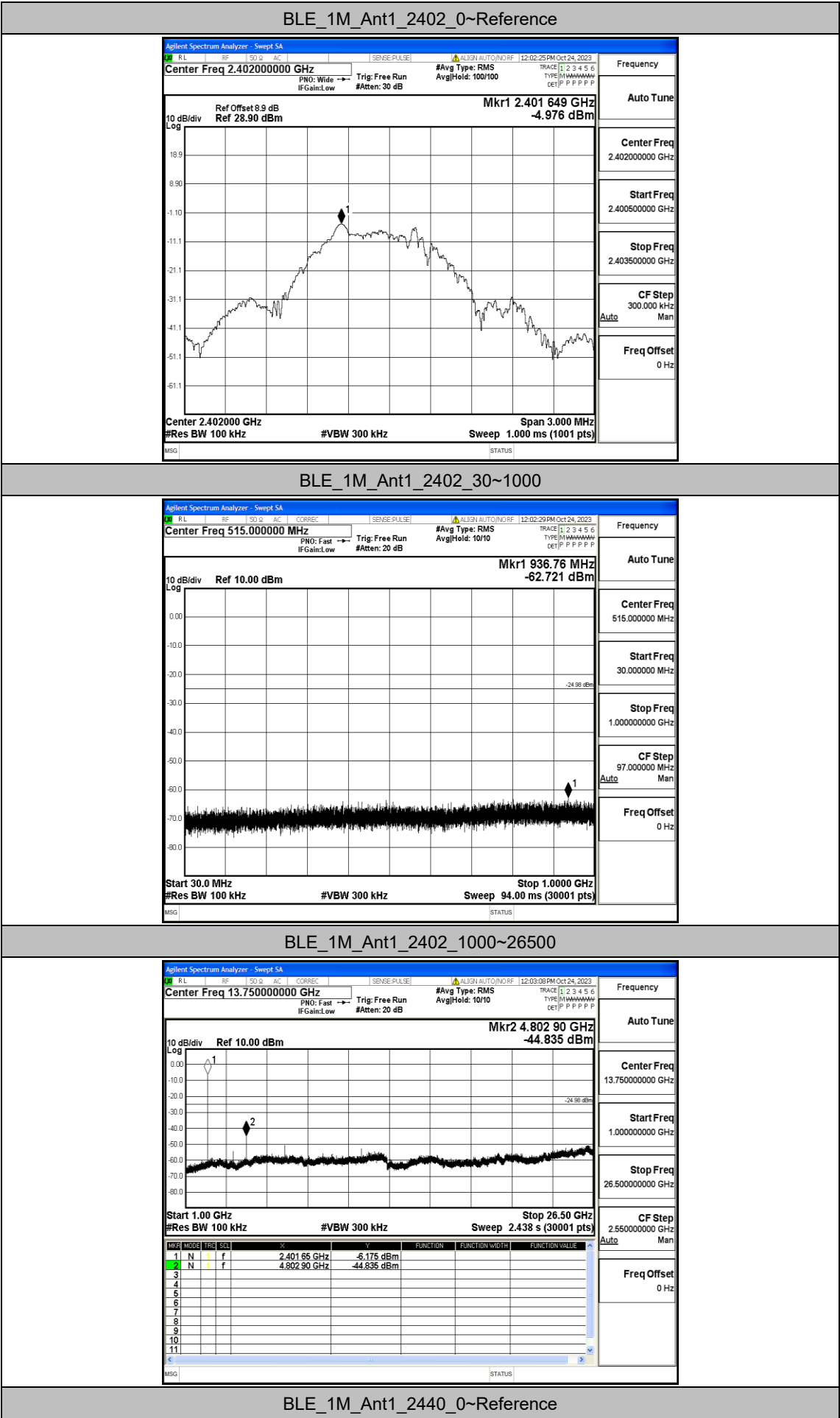


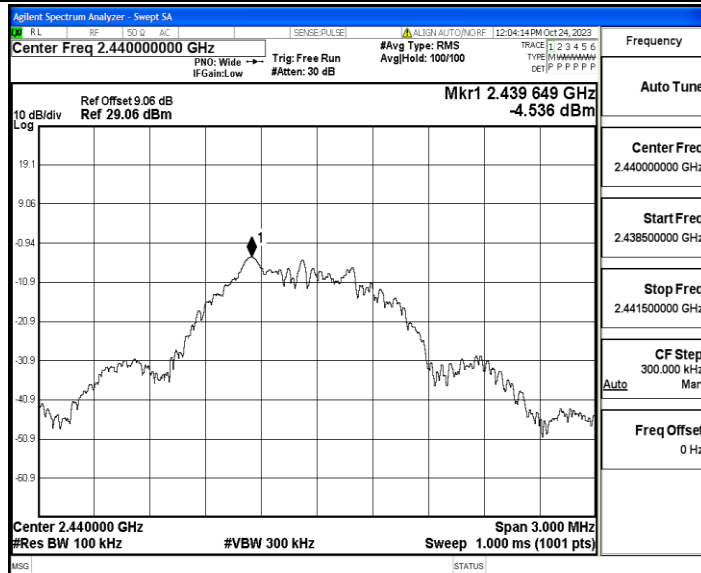
Appendix F: Conducted Spurious Emission

Test Result

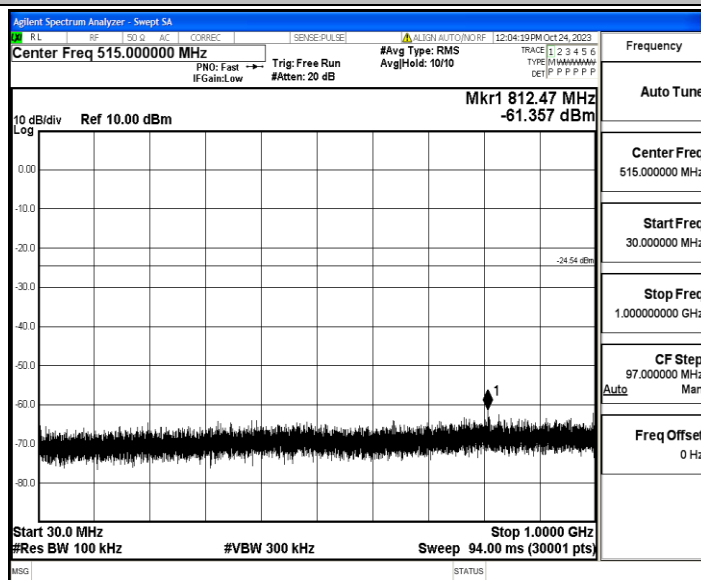
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.98	-4.98	---	PASS
			30~1000	-4.98	-62.72	≤-24.98	PASS
			1000~26500	-4.98	-44.84	≤-24.98	PASS
		2440	Reference	-4.54	-4.54	---	PASS
			30~1000	-4.54	-61.36	≤-24.54	PASS
			1000~26500	-4.54	-50.68	≤-24.54	PASS
		2480	Reference	-4.78	-4.78	---	PASS
			30~1000	-4.78	-63.13	≤-24.78	PASS
			1000~26500	-4.78	-49.68	≤-24.78	PASS

Test Graphs

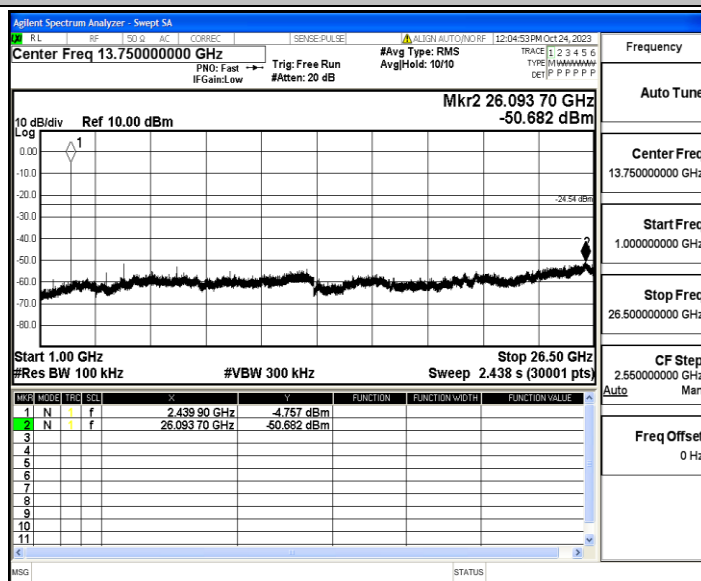




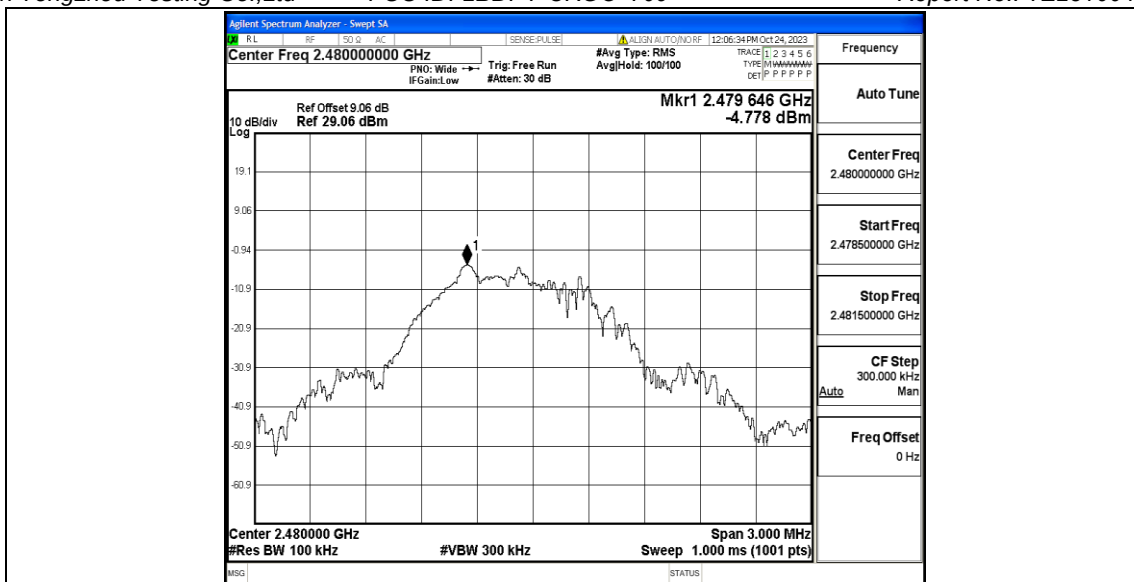
BLE_1M_Ant1_2440_30~1000



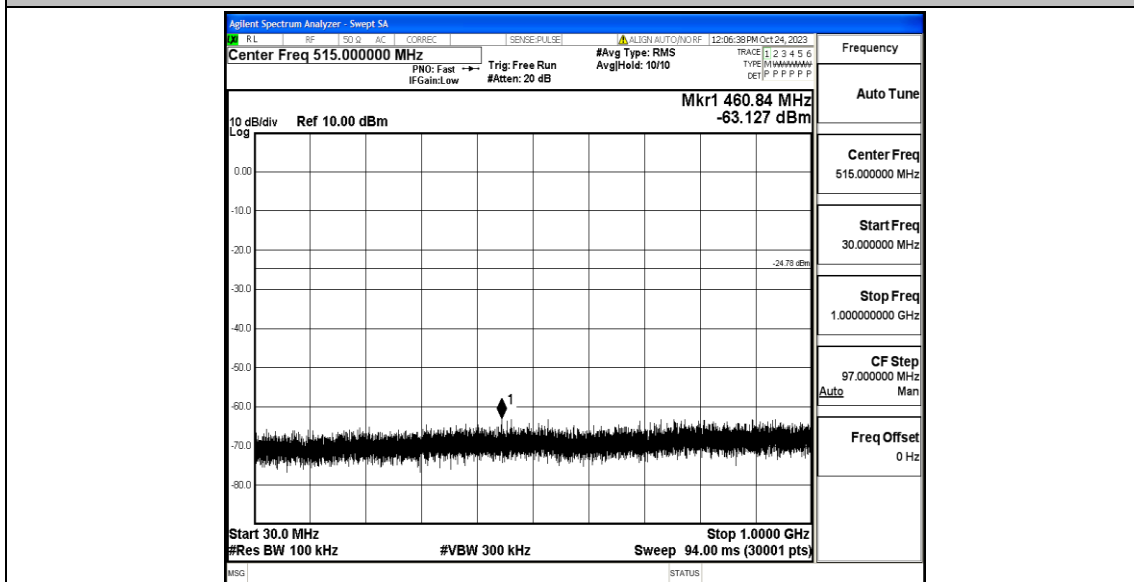
BLE_1M_Ant1_2440_1000~26500



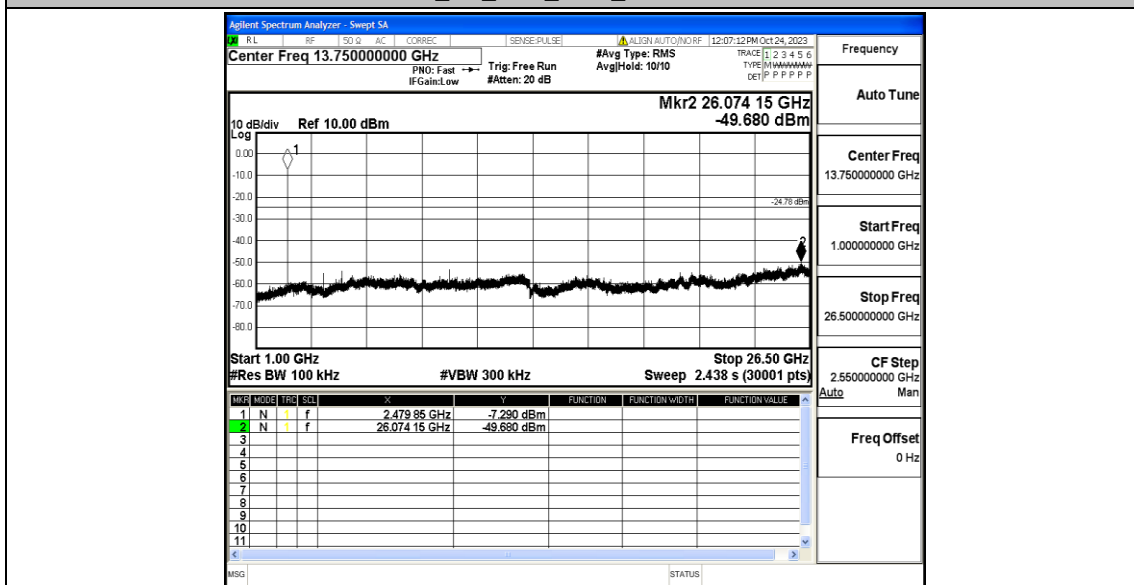
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

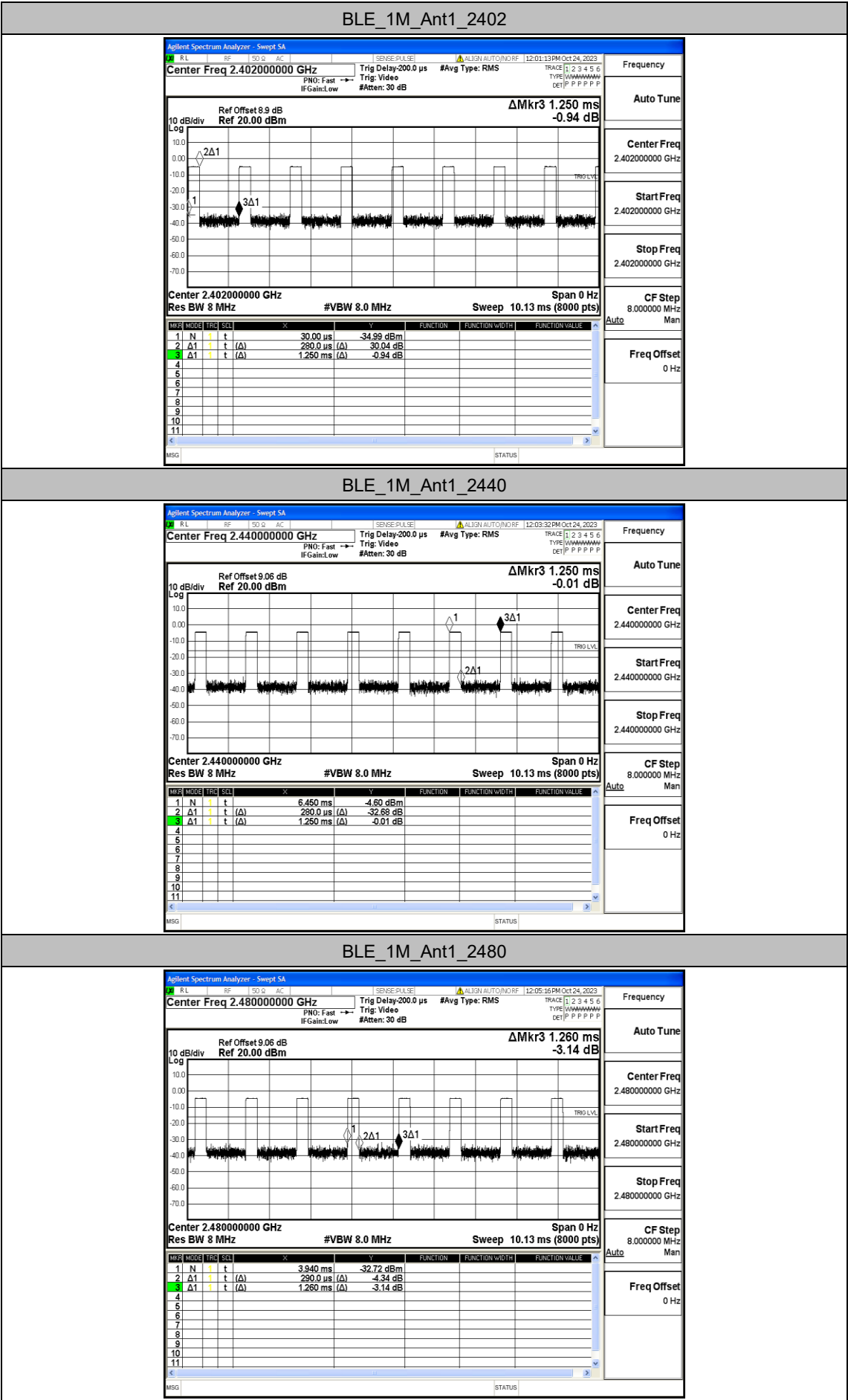


Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
BLE_1M	Ant1	2402	0.28	1.25	22.40	3.57
		2440	0.28	1.25	22.40	3.57
		2480	0.29	1.26	23.02	3.45

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	-47.19	≤-41.20	PASS
				AV	2368.145	-46.45	≤-41.20	PASS
				AV	2390.000	-47.09	≤-41.20	PASS
				Peak	2310.000	-39.47	≤-21.20	PASS
				Peak	2329.295	-36.59	≤-21.20	PASS
				Peak	2390.000	-40.58	≤-21.20	PASS
		High	2480	AV	2483.500	-46.02	≤-41.20	PASS
				AV	2498.880	-45.98	≤-41.20	PASS
				AV	2500.000	-46.3	≤-41.20	PASS
				Peak	2483.500	-39.42	≤-21.20	PASS
				Peak	2487.360	-37.42	≤-21.20	PASS
				Peak	2500.000	-38.58	≤-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

