

Appendix RF Test Data for BLE

FCC ID : 2ASJK-FD05

Company : Guangzhou Pearl River Amason Digital Musical
Instrument Co., Ltd.

EUT : Digital piano

Model Number : FD05

Report No. : CTA25061800801

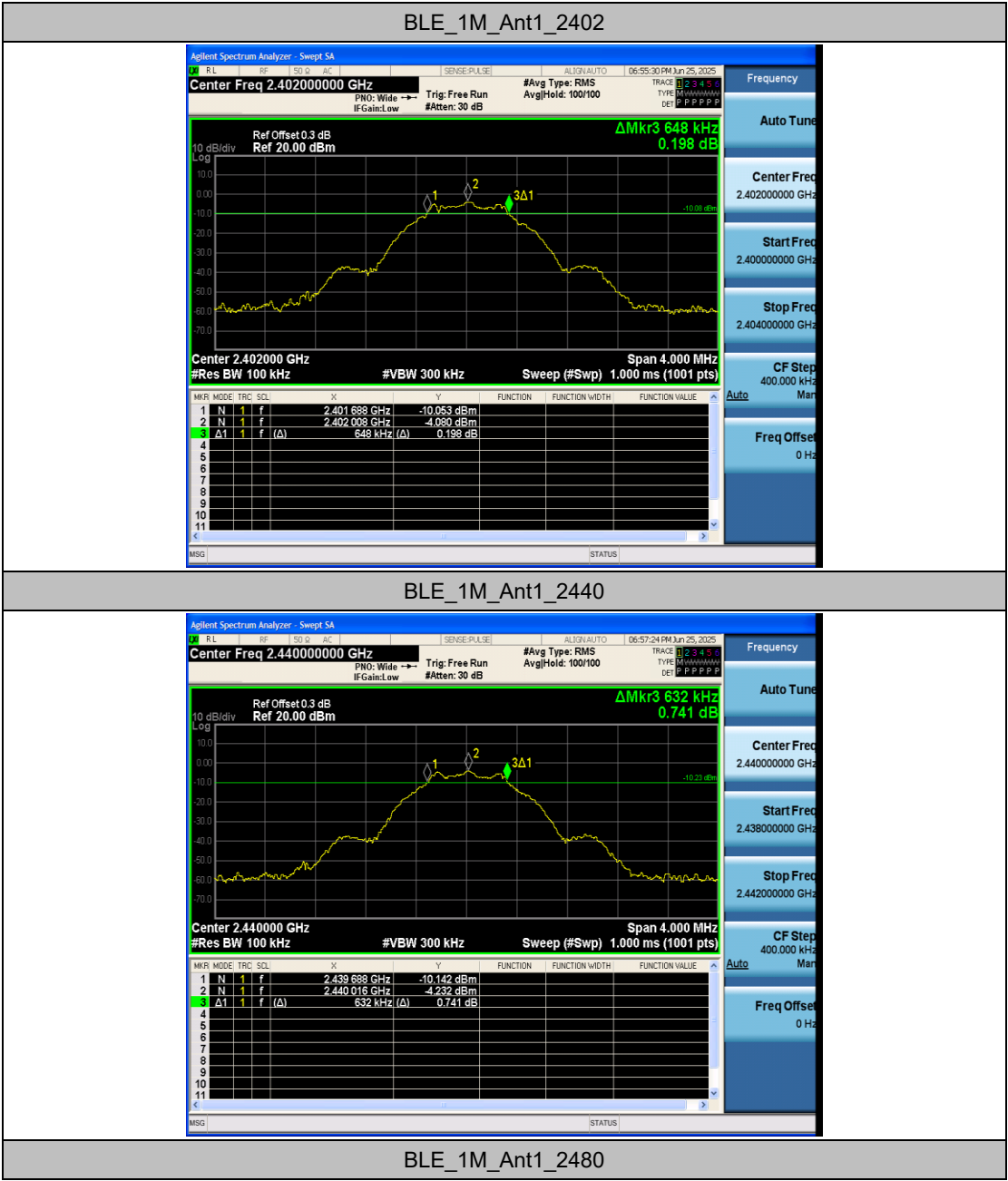
Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.648	2401.688	2402.336	0.5	PASS
		2440	0.632	2439.688	2440.320	0.5	PASS
		2480	0.636	2479.700	2480.336	0.5	PASS

Test Graphs



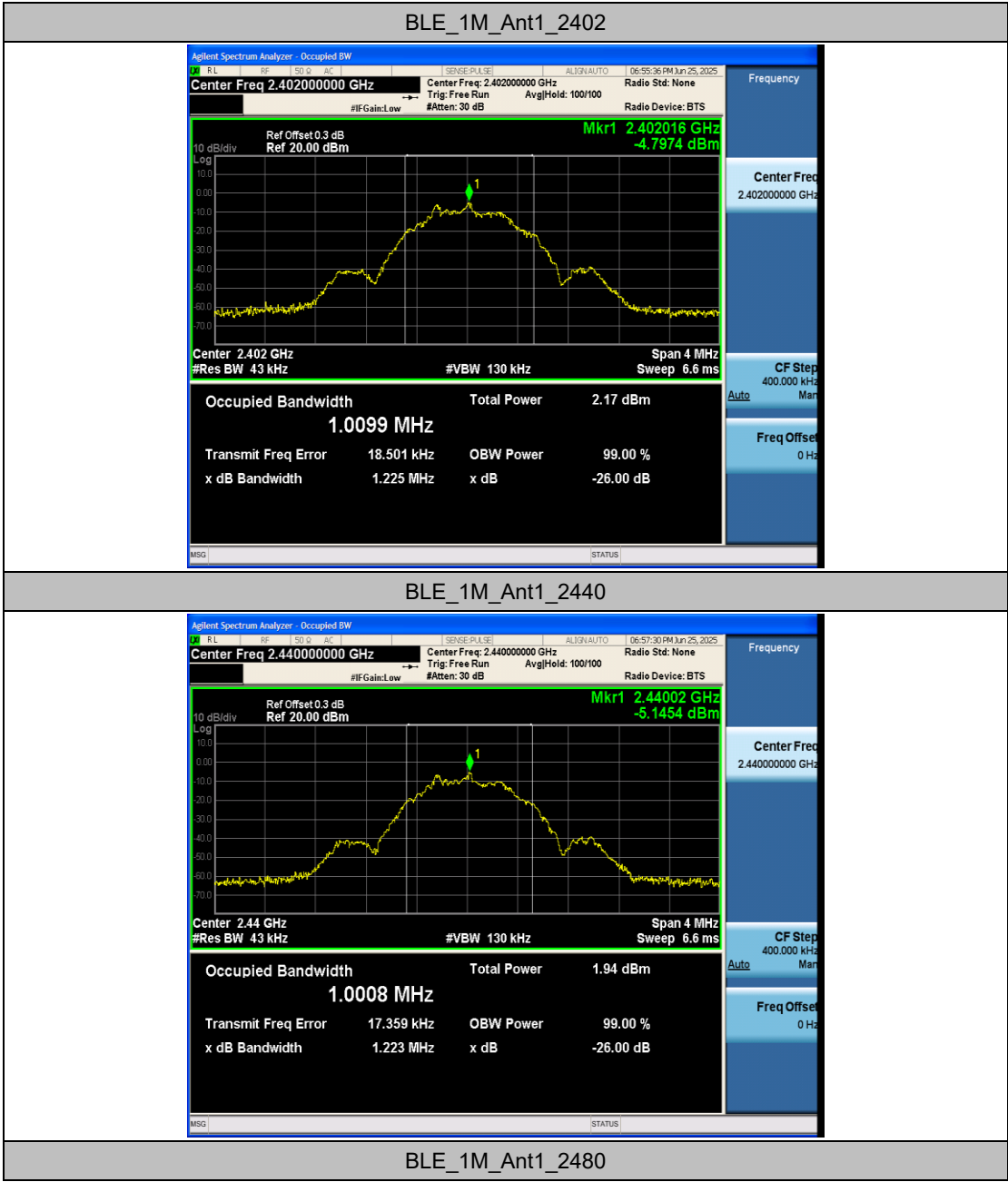


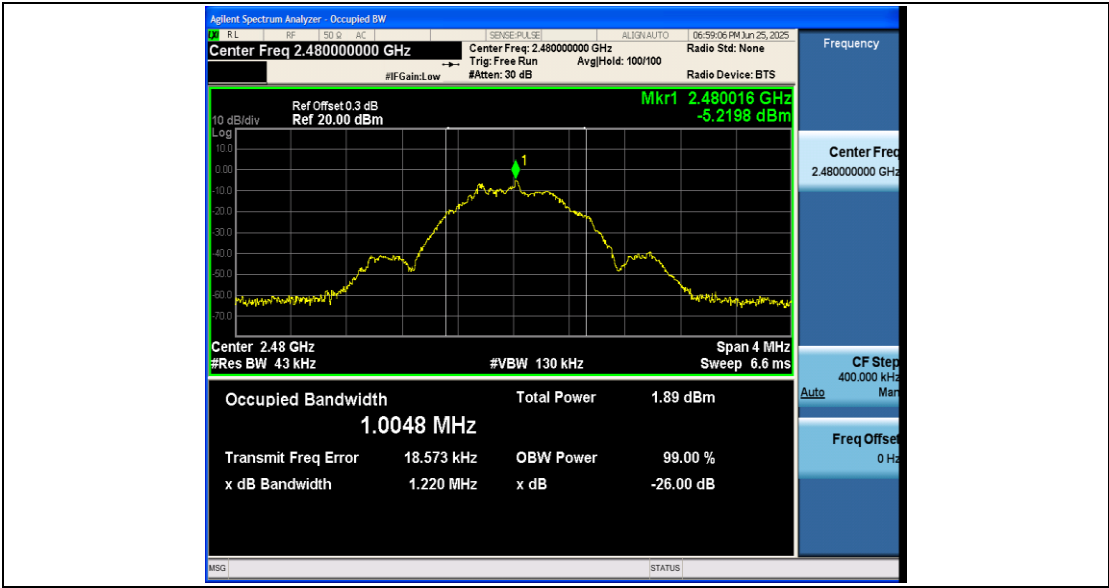
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0099	2401.5136	2402.5235	---	---
		2440	1.0008	2439.5170	2440.5178	---	---
		2480	1.0048	2479.5162	2480.5210	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.77	≤30	PASS
		2440	-4.09	≤30	PASS
		2480	-4.20	≤30	PASS

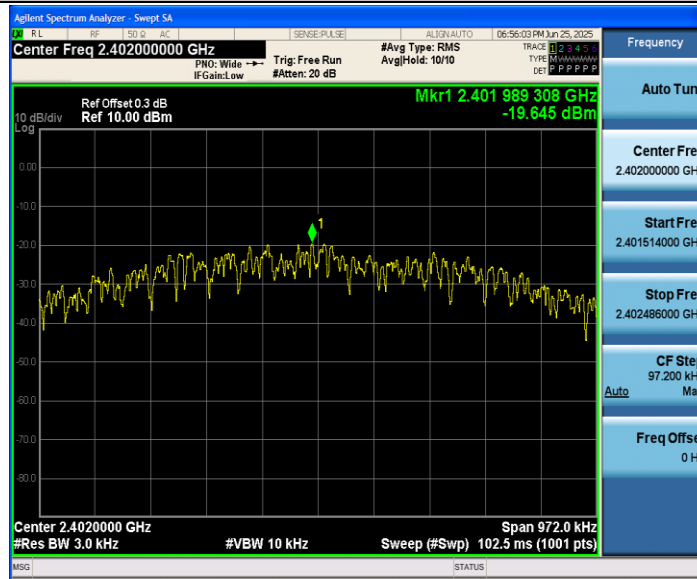
Appendix D: Maximum power spectral density

Test Result

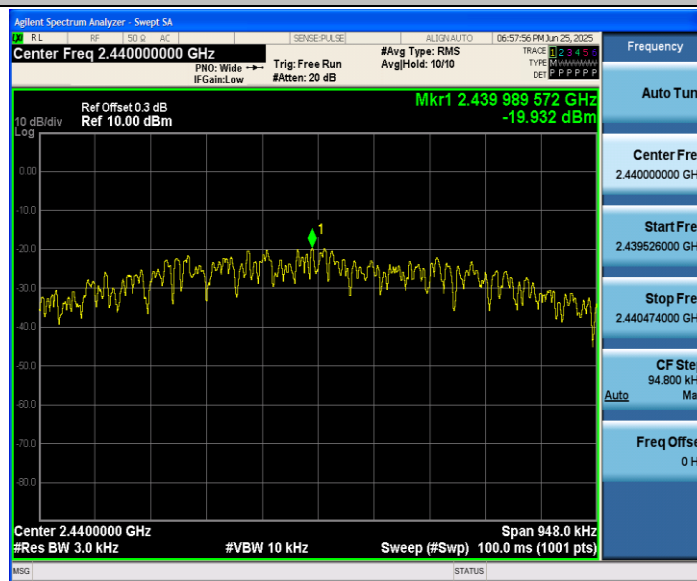
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.65	≤8.00	PASS
		2440	-19.93	≤8.00	PASS
		2480	-19.89	≤8.00	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



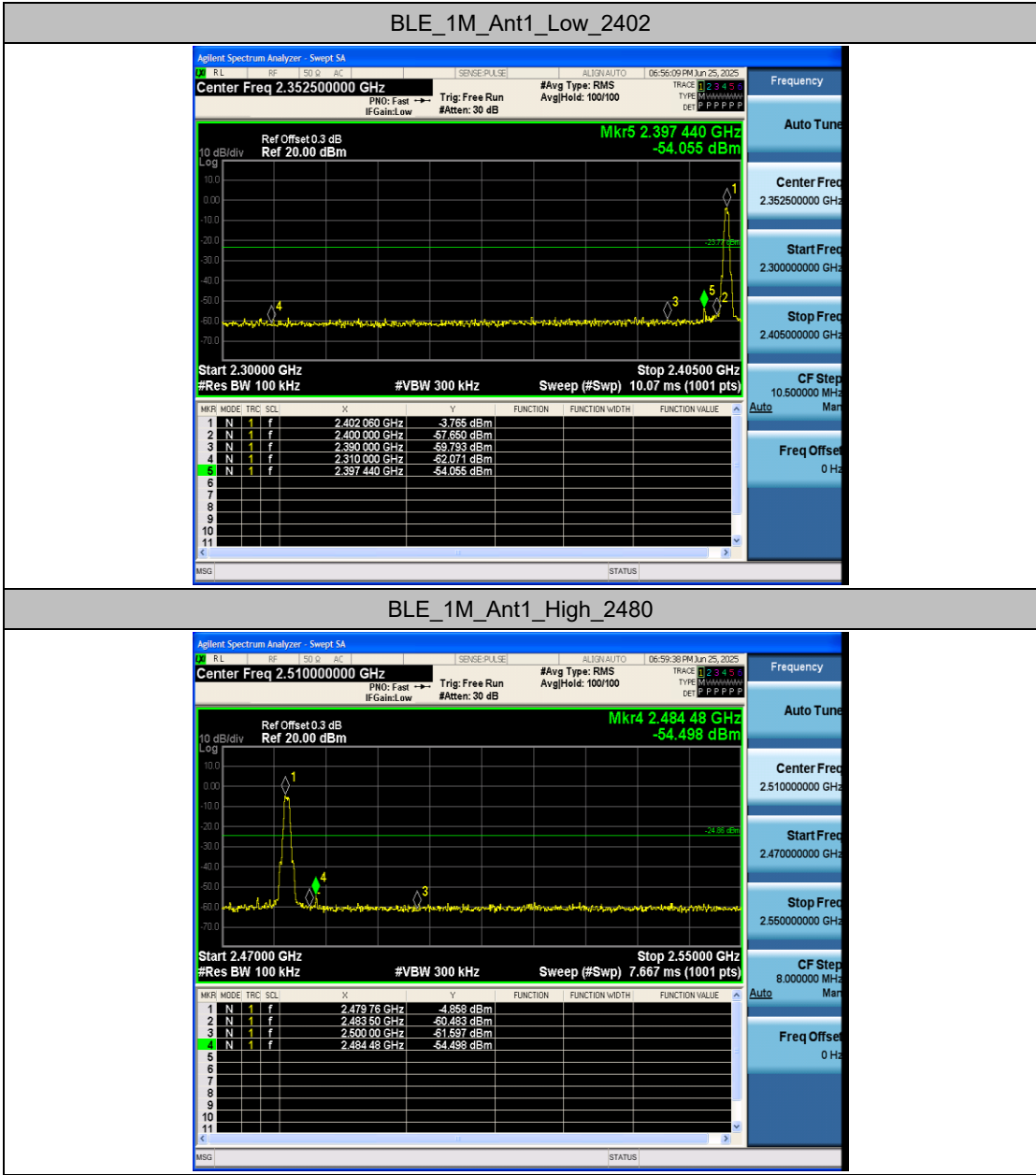
BLE_1M_Ant1_2480

Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-3.77	-54.06	≤-23.77	PASS
		High	2480	-4.86	-54.5	≤-24.86	PASS

Test Graphs

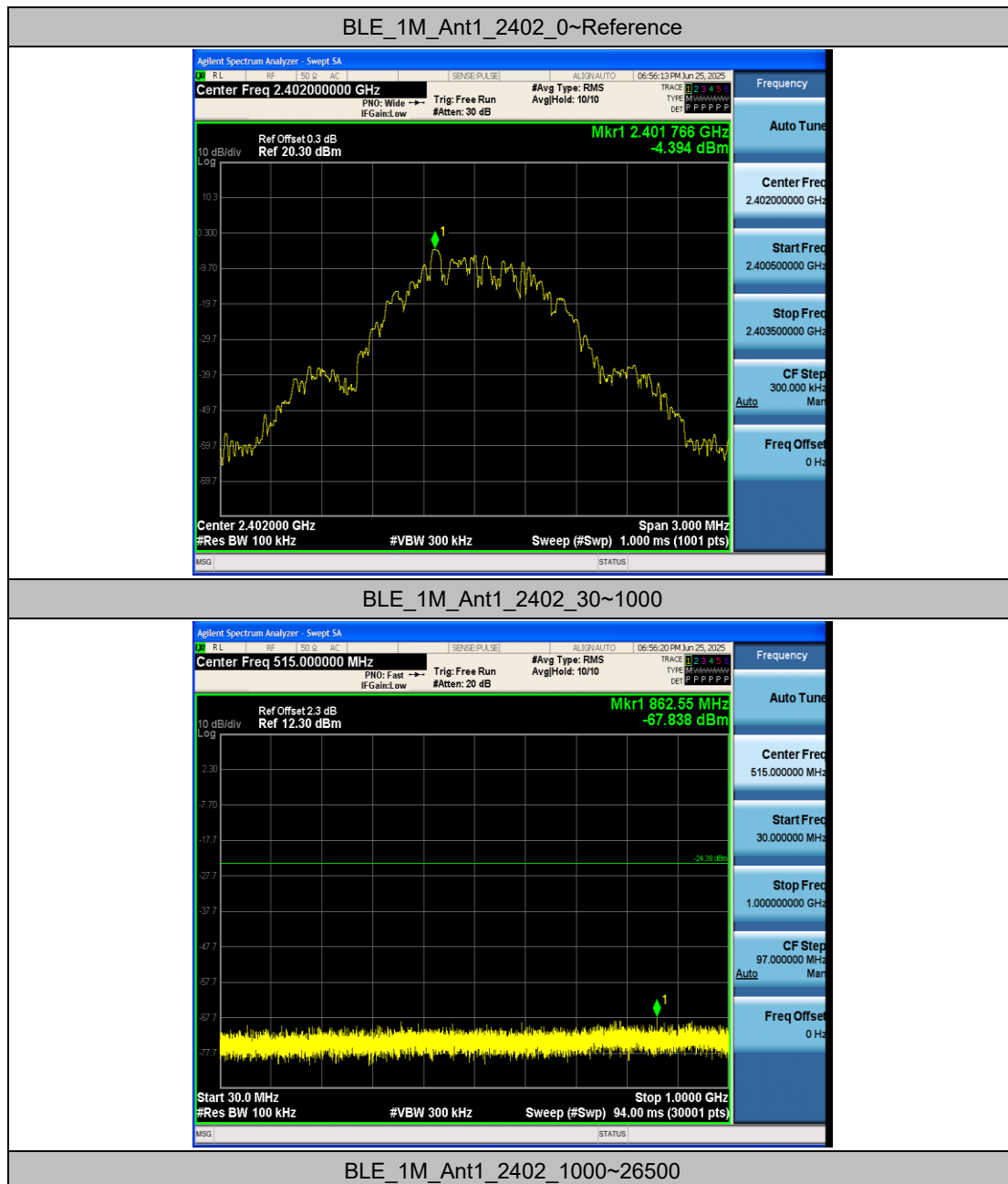


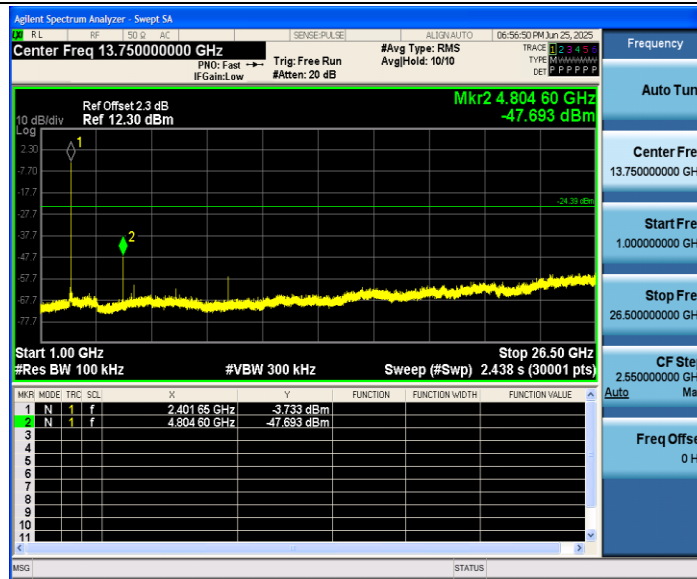
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.39	-4.39	---	PASS
			30~1000	-4.39	-67.84	≤-24.39	PASS
			1000~26500	-4.39	-47.69	≤-24.39	PASS
		2440	Reference	-5.05	-5.05	---	PASS
			30~1000	-5.05	-68.02	≤-25.05	PASS
			1000~26500	-5.05	-46.28	≤-25.05	PASS
		2480	Reference	-4.85	-4.85	---	PASS
			30~1000	-4.85	-68.66	≤-24.85	PASS
			1000~26500	-4.85	-48.35	≤-24.85	PASS

Test Graphs

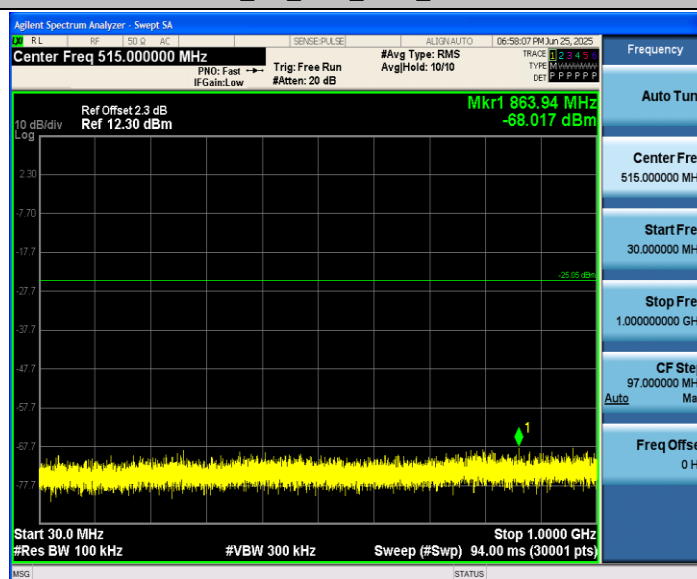




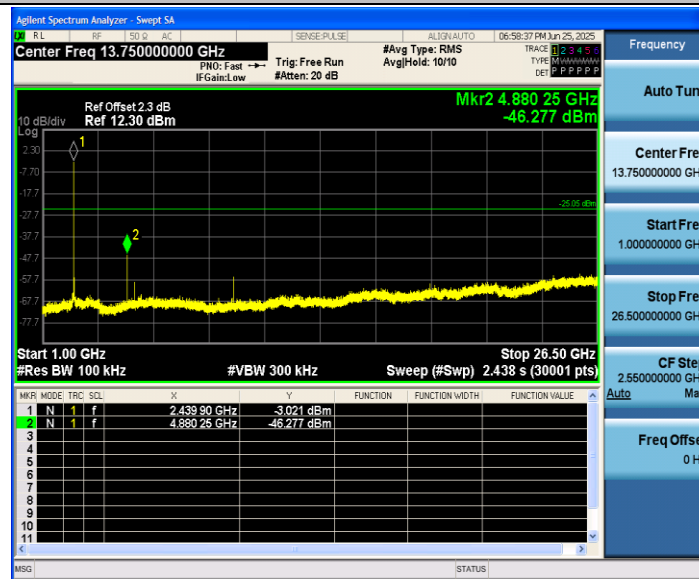
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



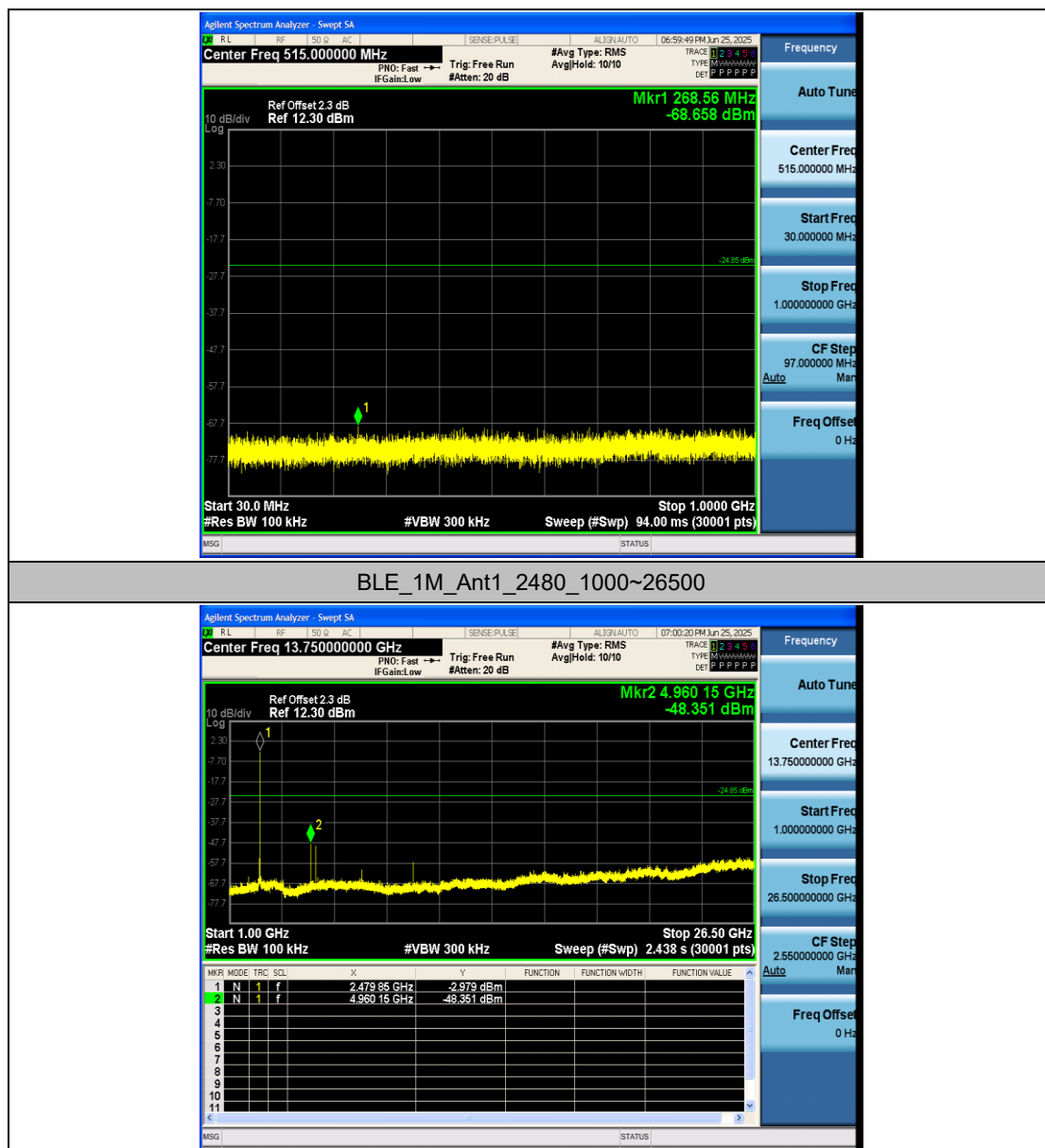
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.41	0.63	0.6508	65.08	1.87	---	---
		2440	0.41	0.63	0.6508	65.08	1.87	---	---
		2480	0.41	0.63	0.6508	65.08	1.87	---	---

Test Graphs

