

Appendix RF Test Data for BLE

FCC ID : 2ASJK-QU2

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

EUT : PEARL RIVER INTELLIGENT PIANO SILENT
SYSTEM

Model Number : QU2

Report No. : CTA25051502001

Reviewed By : Eric Wang

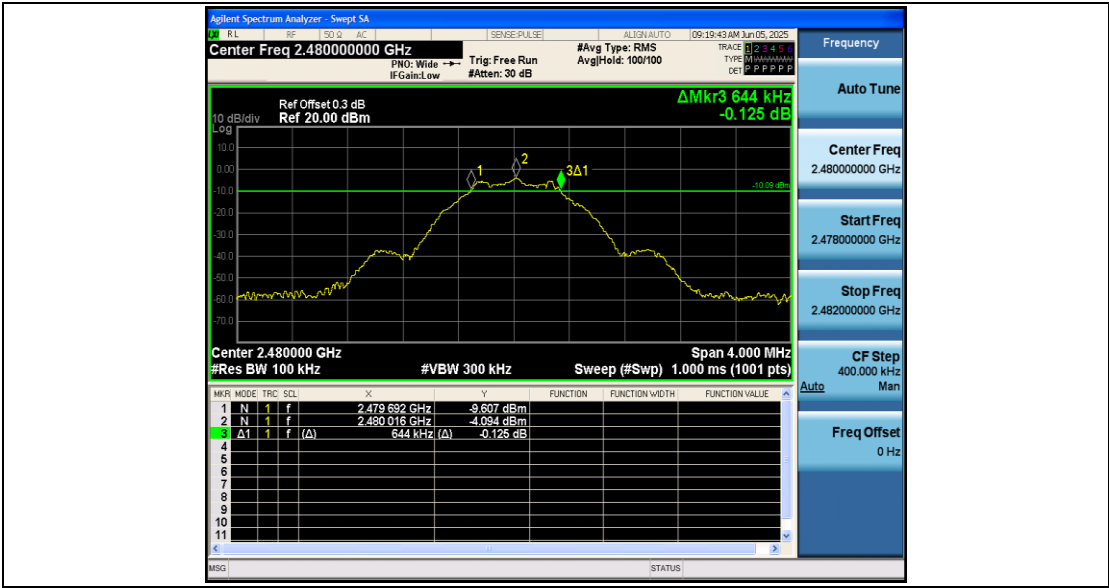
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.680	2402.340	0.5	PASS
		2440	0.640	2439.692	2440.332	0.5	PASS
		2480	0.644	2479.692	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	1.0048	2401.5175	2402.5223	---	---
		2440	1.0048	2439.5170	2440.5218	---	---
		2480	1.0038	2479.5165	2480.5203	---	---

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

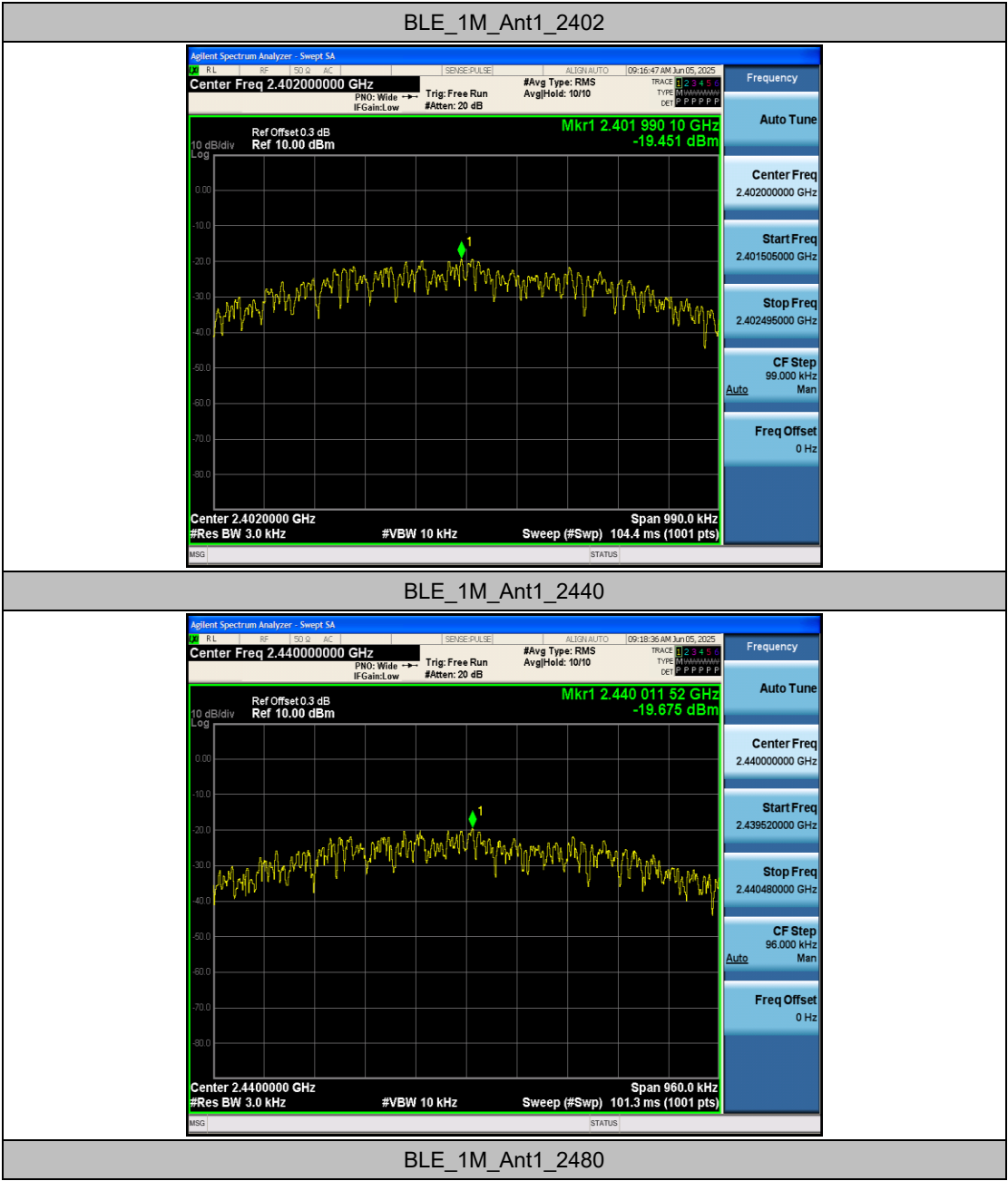
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.57	≤30	PASS
		2440	-3.90	≤30	PASS
		2480	-3.97	≤30	PASS

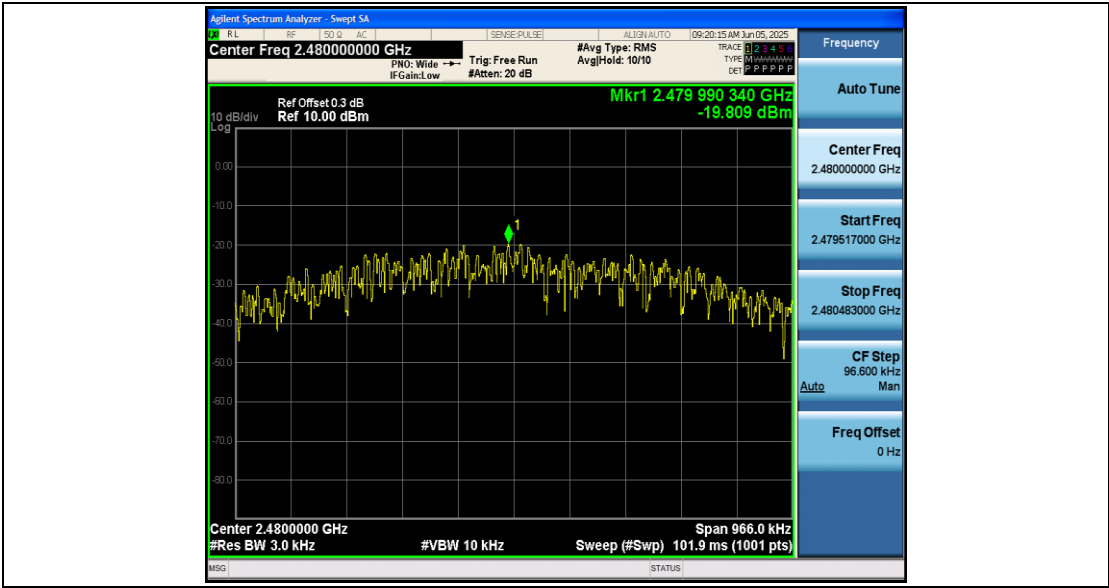
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.45	≤8.00	PASS
		2440	-19.68	≤8.00	PASS
		2480	-19.81	≤8.00	PASS

Test Graphs



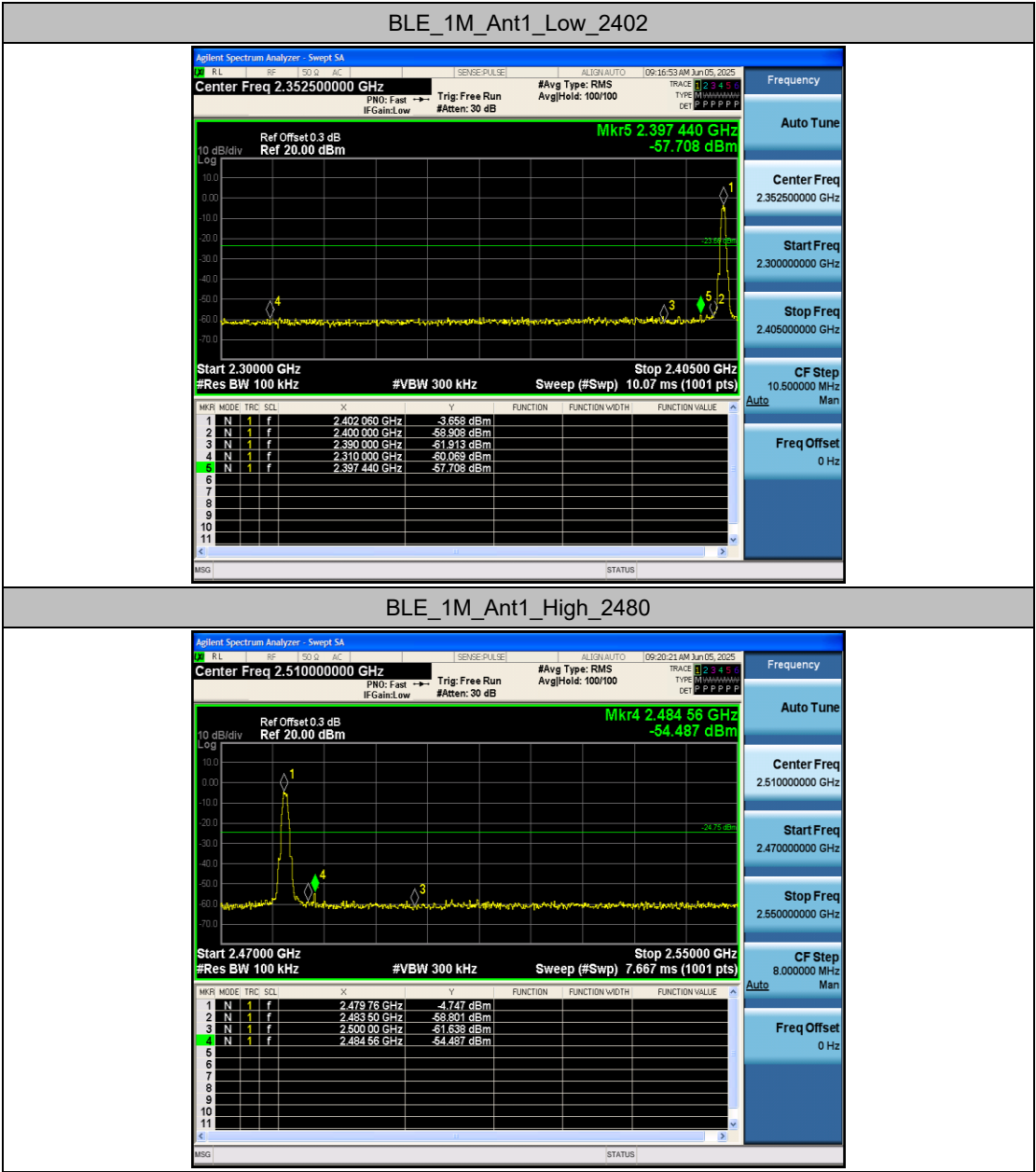


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.66	-57.71	≤-23.66	PASS
		High	2480	-4.75	-54.49	≤-24.75	PASS

Test Graphs

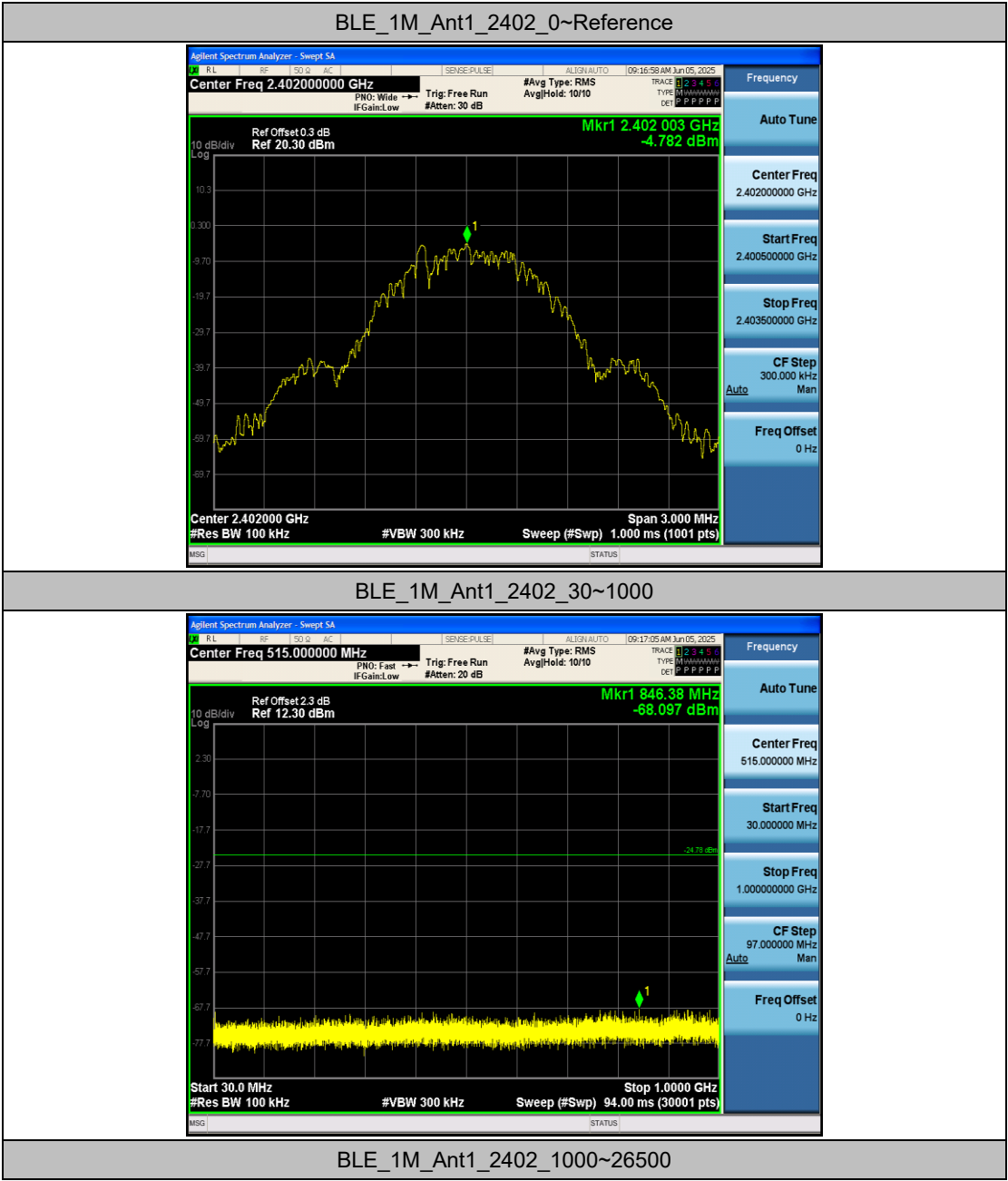


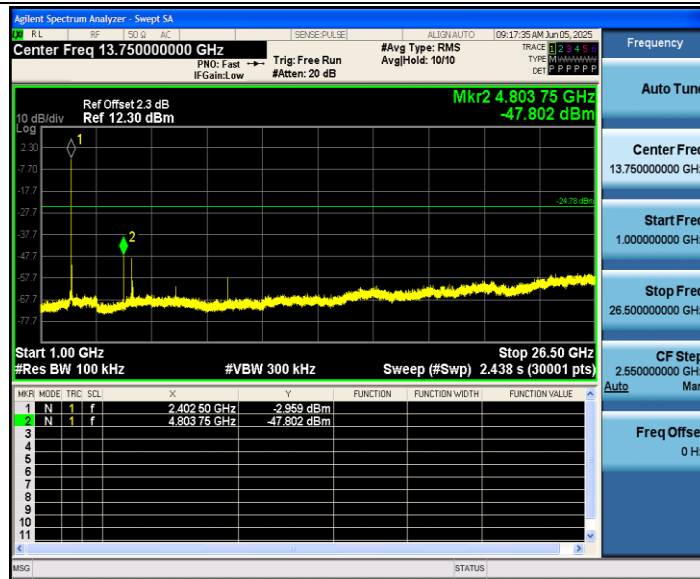
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.78	-4.78	---	PASS
			30~1000	-4.78	-68.1	≤-24.78	PASS
			1000~26500	-4.78	-47.8	≤-24.78	PASS
		2440	Reference	-5.44	-5.44	---	PASS
			30~1000	-5.44	-68.36	≤-25.44	PASS
			1000~26500	-5.44	-47.78	≤-25.44	PASS
		2480	Reference	-5.76	-5.76	---	PASS
			30~1000	-5.76	-68.2	≤-25.76	PASS
			1000~26500	-5.76	-47.3	≤-25.76	PASS

Test Graphs

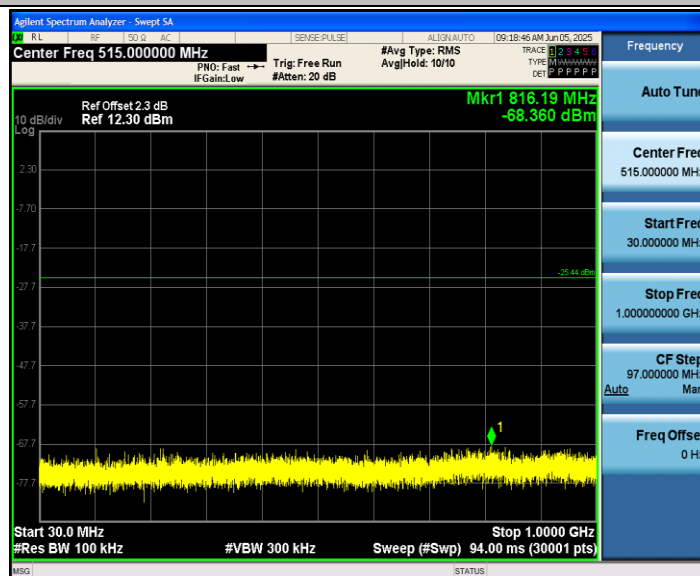




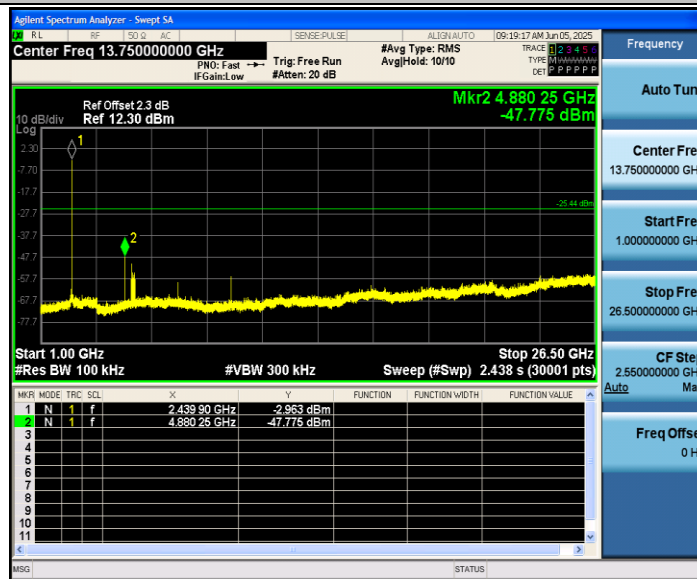
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



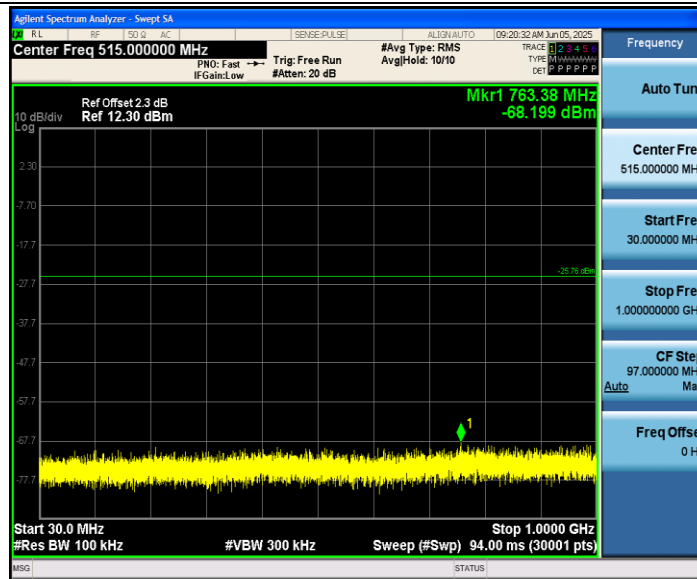
BLE_1M_Ant1_2440_1000~26500



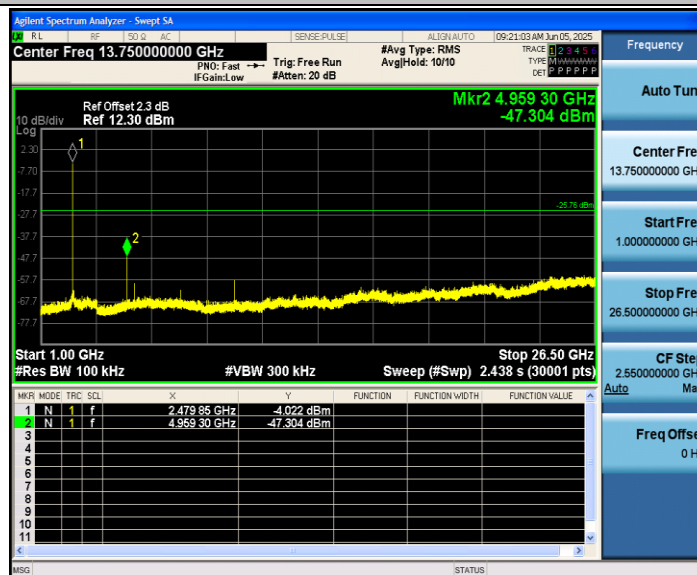
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



Appendix G: Duty Cycle

Test Result

TestMode	Antenna	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

