

FCC Appendix RF Test Data

FCC ID : 2APVY-GK86-1

Company: : SHANTOU CITY CHENGHAI JINGWEI INDUSTRIAL, CO., LTD.

EUT : BOXING TARGET

Model Number : GK86-1

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	0.640	2401.692	2402.332	0.5	PASS
		2440	0.648	2439.688	2440.336	0.5	PASS
		2480	0.640	2479.696	2480.336	0.5	PASS

Test Graphs

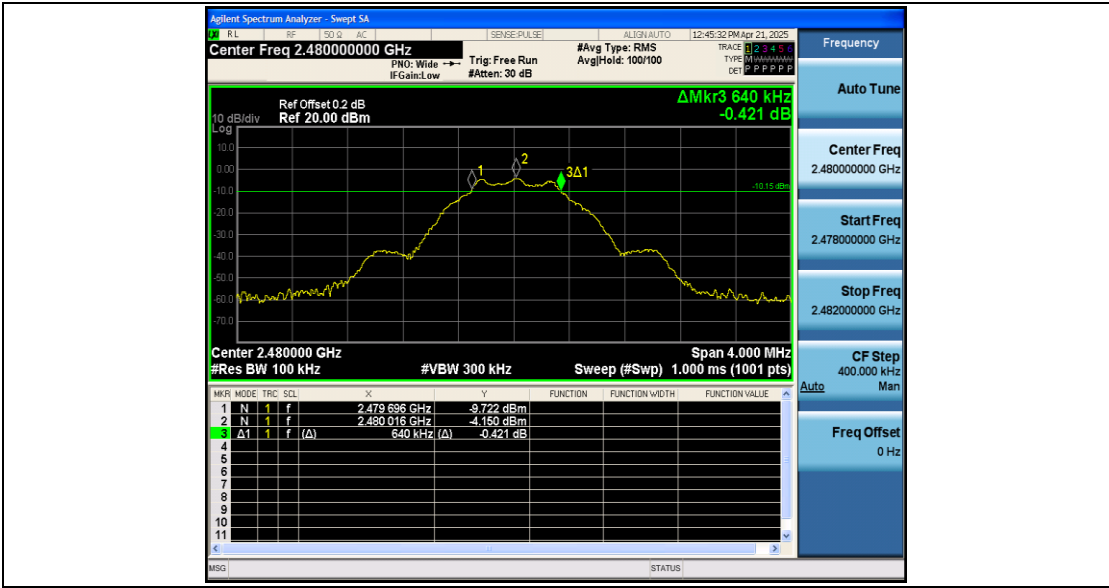
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

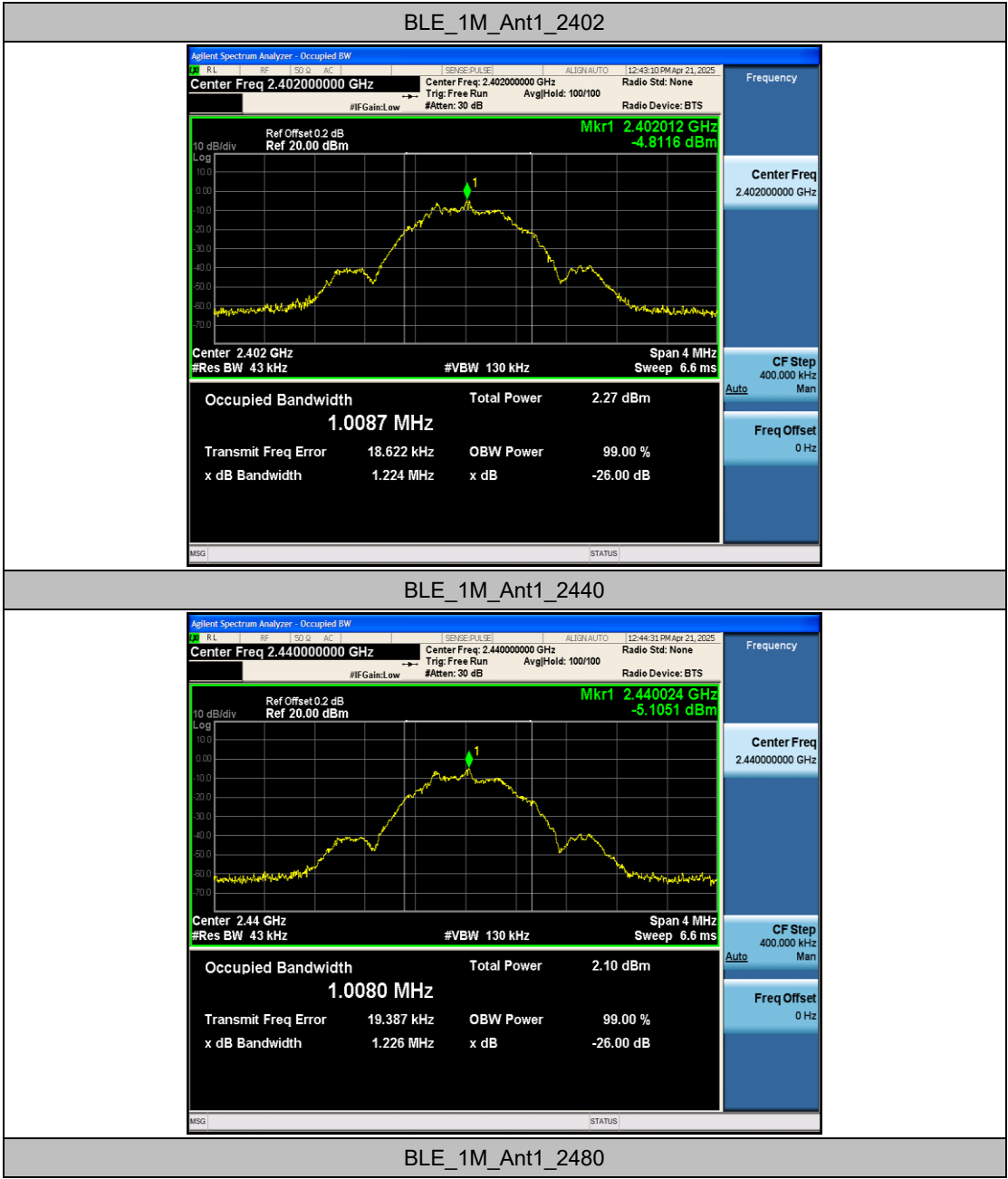


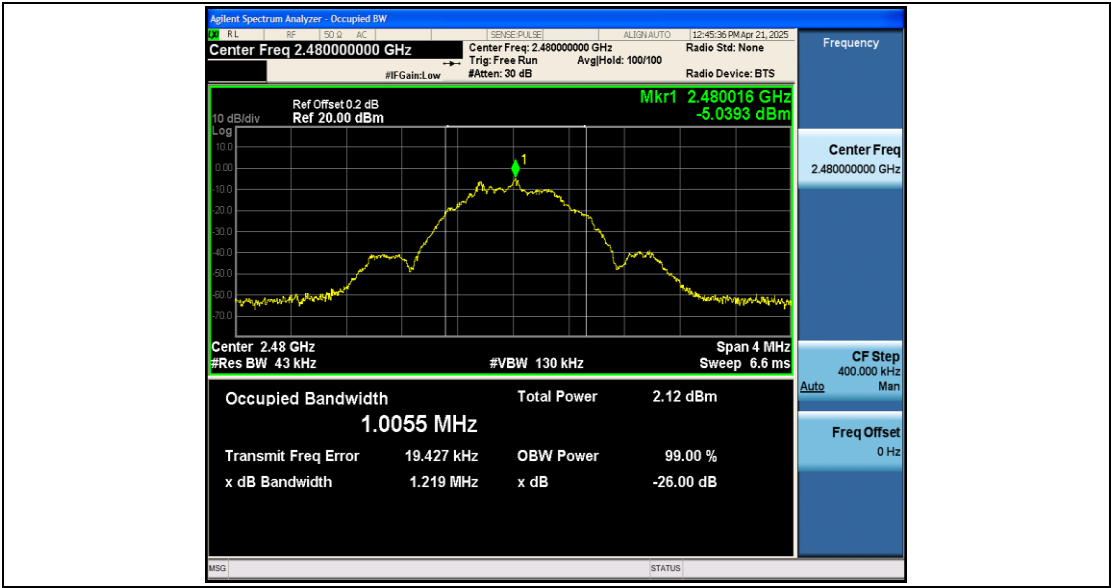
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0087	2401.5143	2402.5230	---	---
		2440	1.0080	2439.5154	2440.5234	---	---
		2480	1.0055	2479.5167	2480.5222	---	---

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	-3.63	≤30	PASS
		2440	-3.95	≤30	PASS
		2480	-4.00	≤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	-19.49	≤8.00	PASS
		2440	-19.68	≤8.00	PASS
		2480	-19.75	≤8.00	PASS

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.40200000 GHz

Ref Offset 0.2 dB
Ref 10.00 dBm

Mkr1 2.40199040 GHz
-19.491 dBm

Auto Tune

Center Freq
2.40200000 GHz

Start Freq
2.401520000 GHz

Stop Freq
2.402480000 GHz

CF Step
96.000 kHz
Auto Man

Freq Offset
0 Hz

Center 2.4020000 GHz

#Res BW 3.0 kHz

#VBW 10 kHz

Sweep (#Swp) 101.3 ms (1001 pts)

MSG STATUS

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.440000000 GHz

Ref Offset 0.2 dB
Ref 10.00 dBm

Mkr1 2.440011664 GHz
-19.677 dBm

Auto Tune

Center Freq
2.440000000 GHz

Start Freq
2.439514000 GHz

Stop Freq
2.440486000 GHz

CF Step
97.200 kHz
Auto Man

Freq Offset
0 Hz

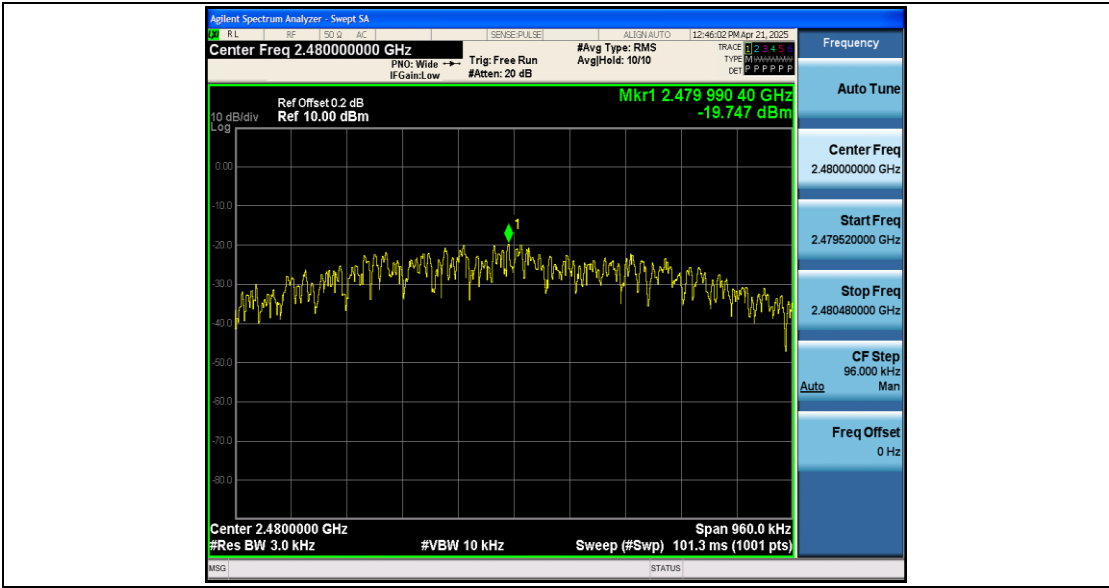
Center 2.44000000 GHz

#Res BW 3.0 kHz

#VBW 10 kHz

Sweep (#Swp) 102.5 ms (1001 pts)

MSG STATUS

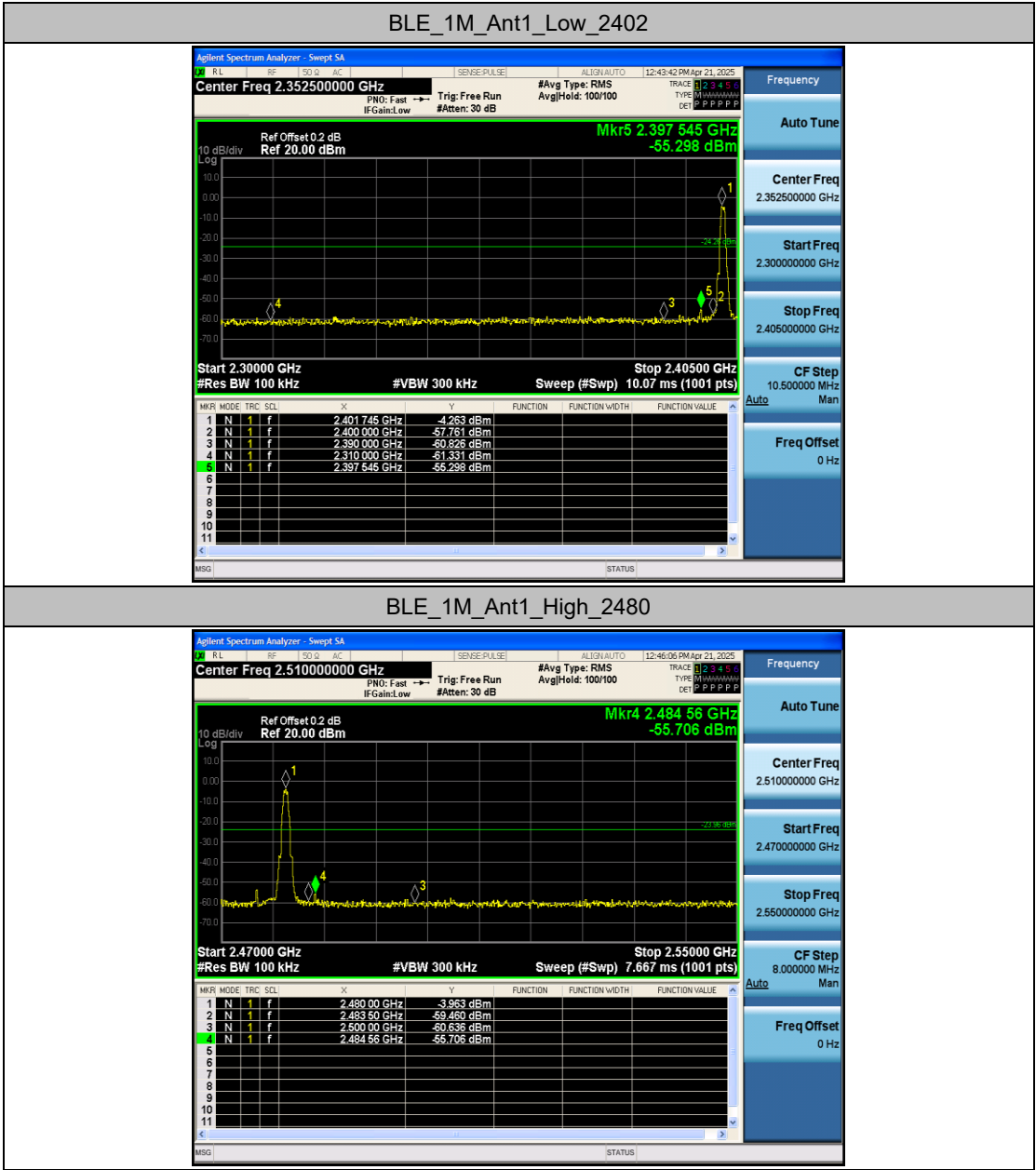


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-4.26	-55.3	≤-24.26	PASS
		High	2480	-3.96	-55.71	≤-23.96	PASS

Test Graphs

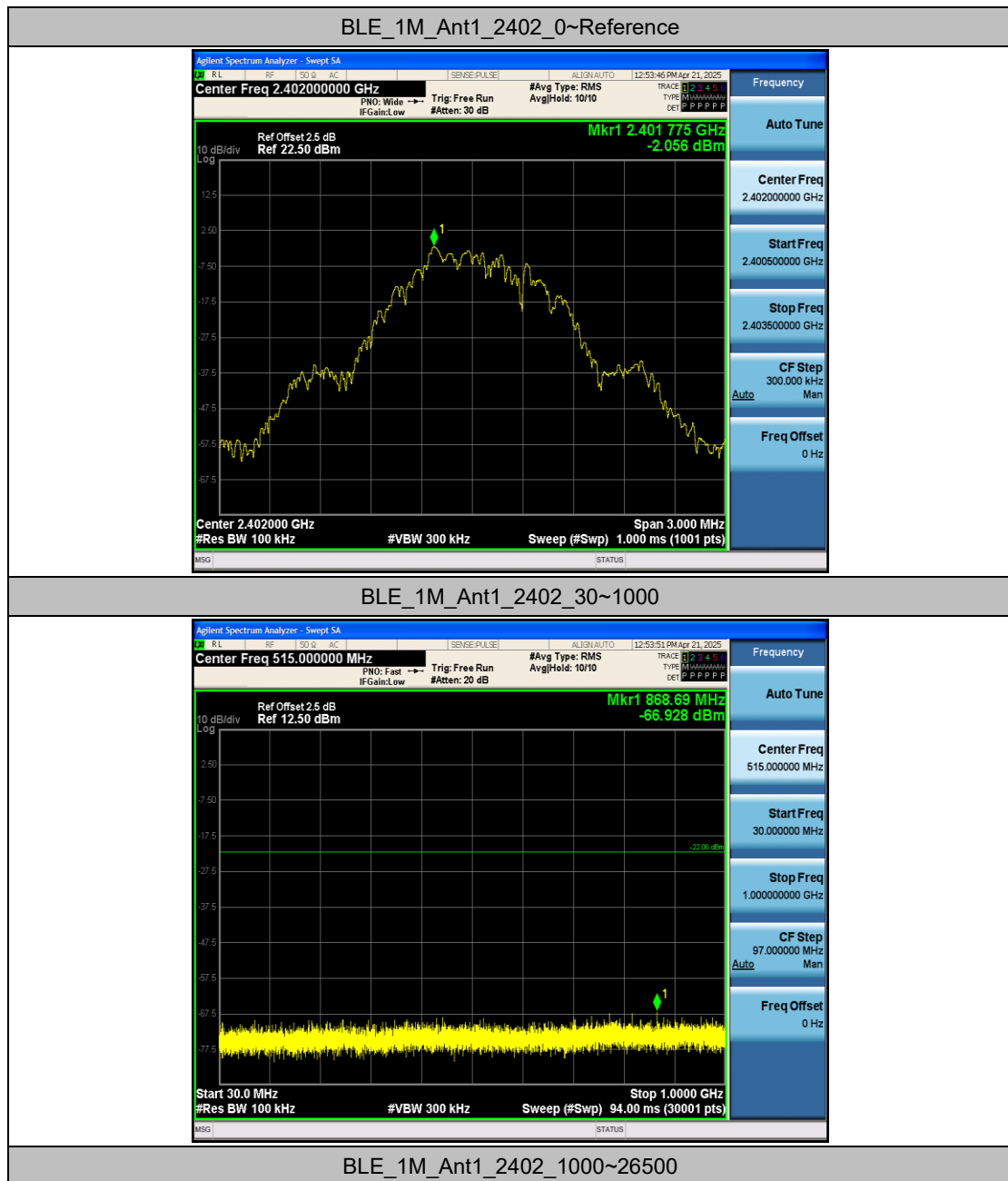


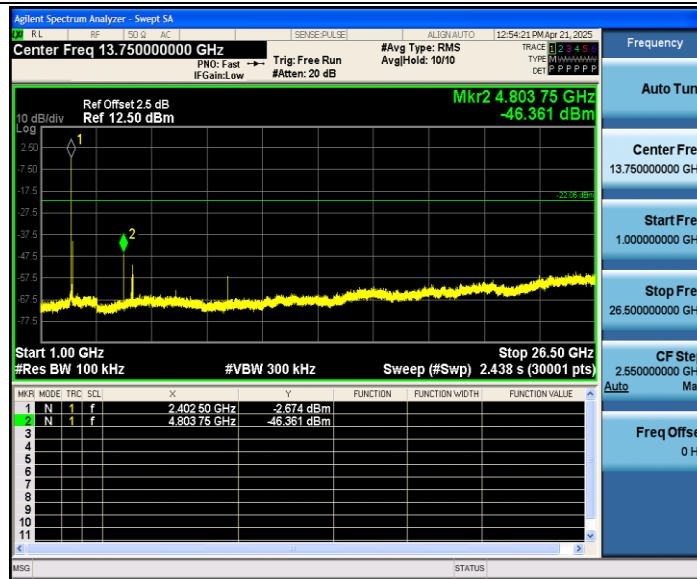
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.06	-2.06	---	PASS
			30~1000	-2.06	-66.93	≤-22.06	PASS
			1000~26500	-2.06	-46.36	≤-22.06	PASS
		2440	Reference	-2.47	-2.47	---	PASS
			30~1000	-2.47	-68.1	≤-22.47	PASS
			1000~26500	-2.47	-49.16	≤-22.47	PASS
		2480	Reference	-2.43	-2.43	---	PASS
			30~1000	-2.43	-68.26	≤-22.43	PASS
			1000~26500	-2.43	-49.71	≤-22.43	PASS

Test Graphs

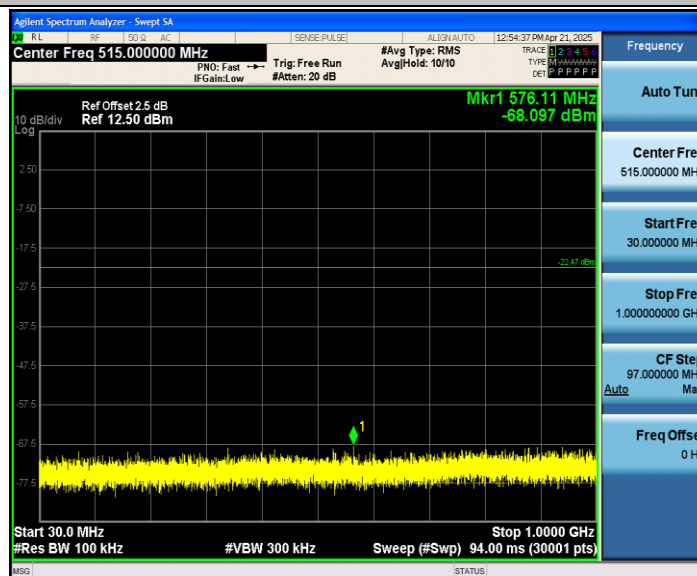




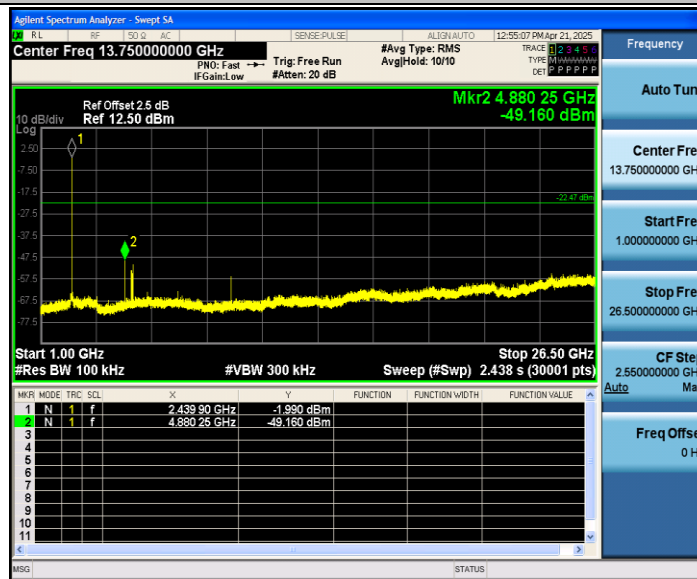
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



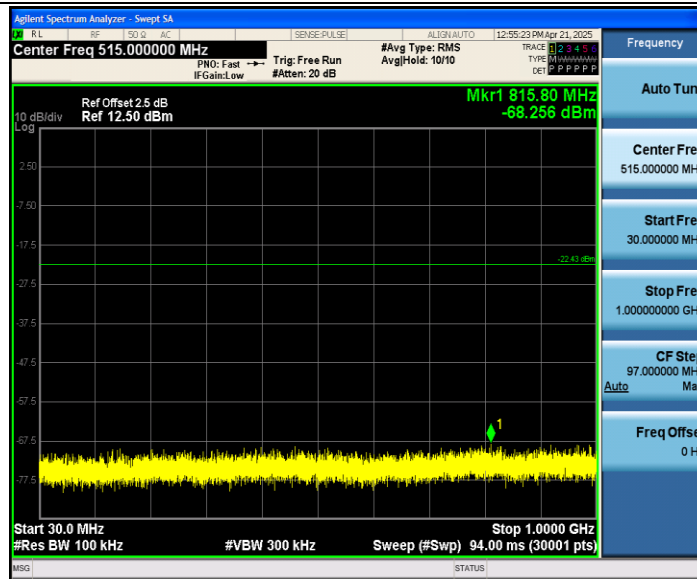
BLE_1M_Ant1_2440_1000~26500



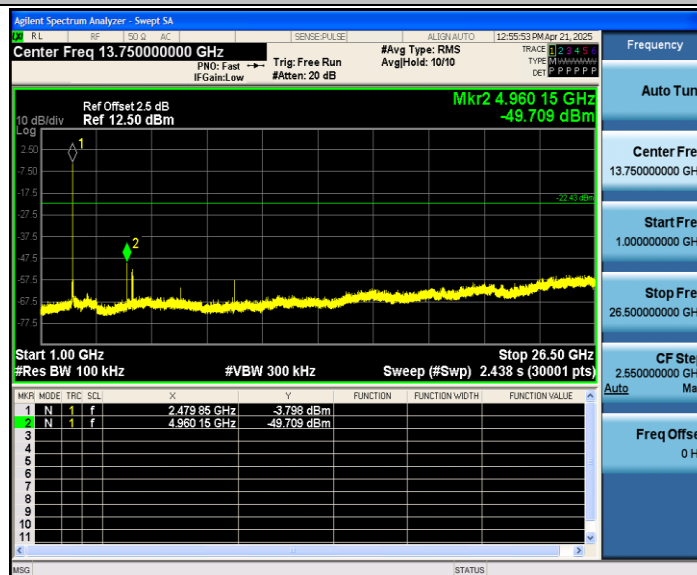
BLE_1M_Ant1_2480_0~Reference



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

