

FCC Appendix RF Test Data for BLE

FCC ID : 2BR2Y-JPKJ-02

Company : shenzhenshiaodenuokejiyouxiangongsi

EUT : Bluetooth keyboard case

Model Number : JPKJ-02

Report No. : CTA25112400101

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	0.636	2401.692	2402.328	0.5	PASS
		2440	0.644	2439.696	2440.340	0.5	PASS
		2480	0.652	2479.688	2480.340	0.5	PASS

Test Graphs

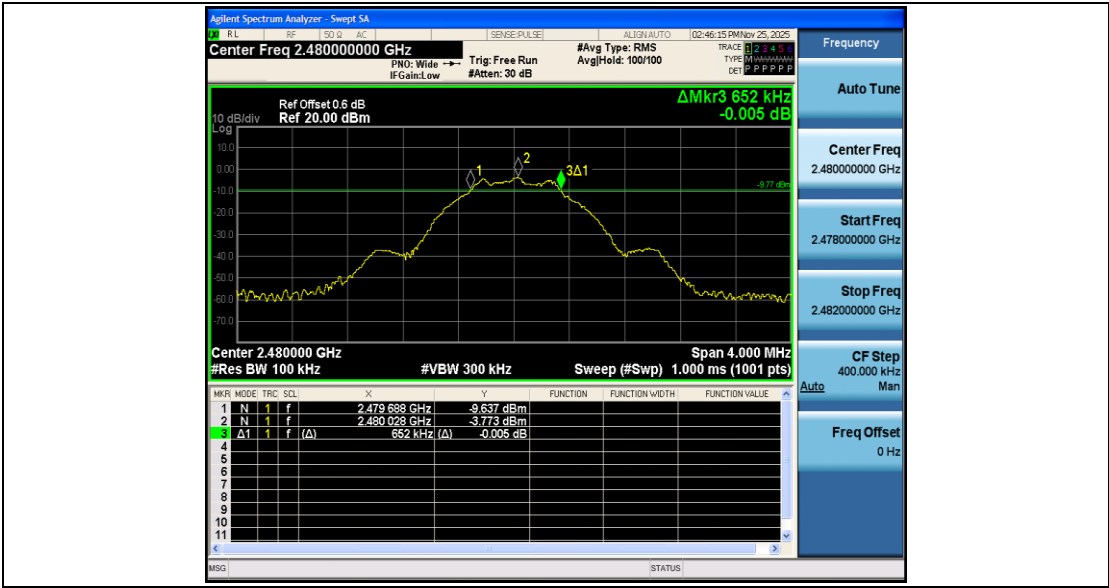
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

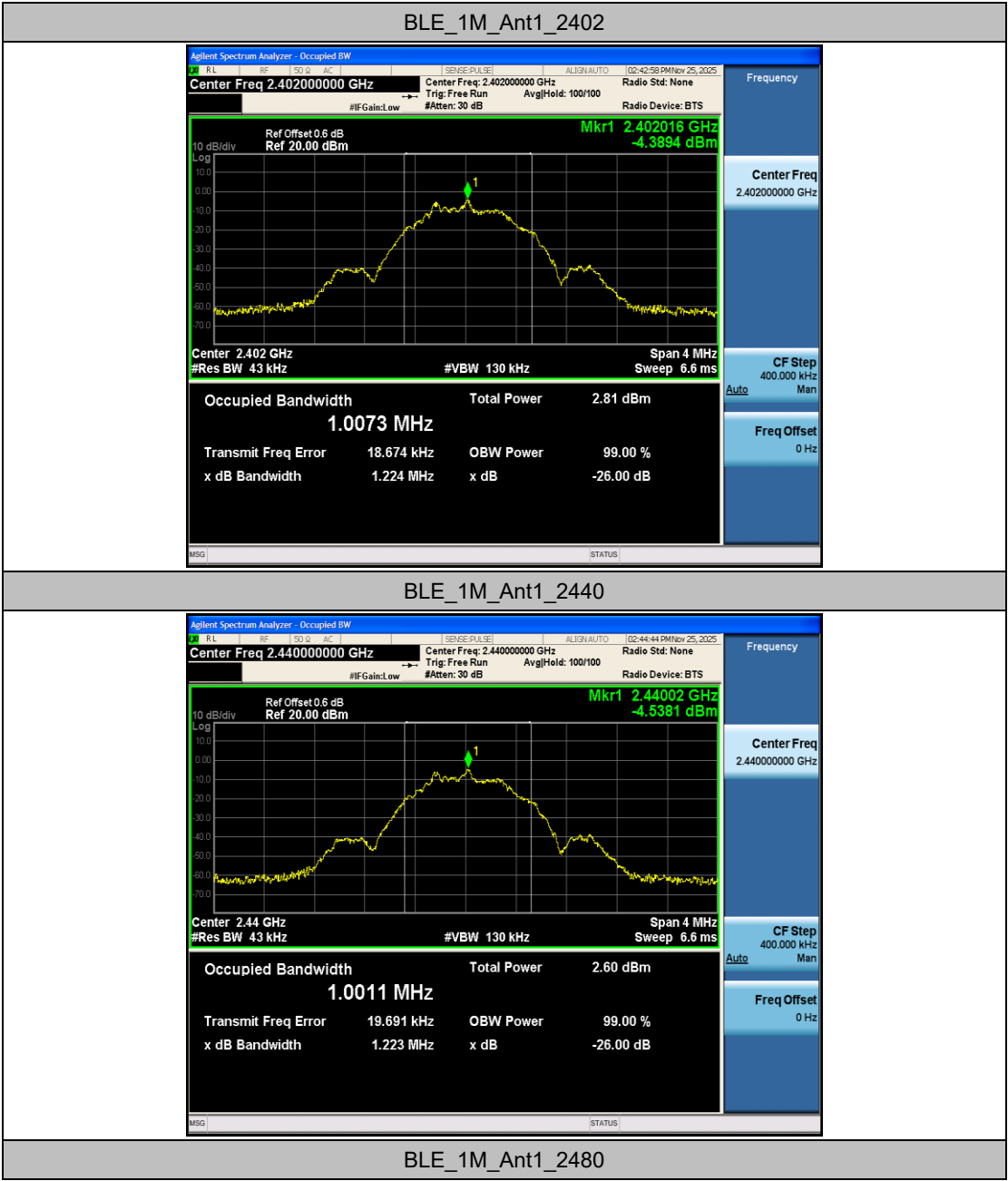


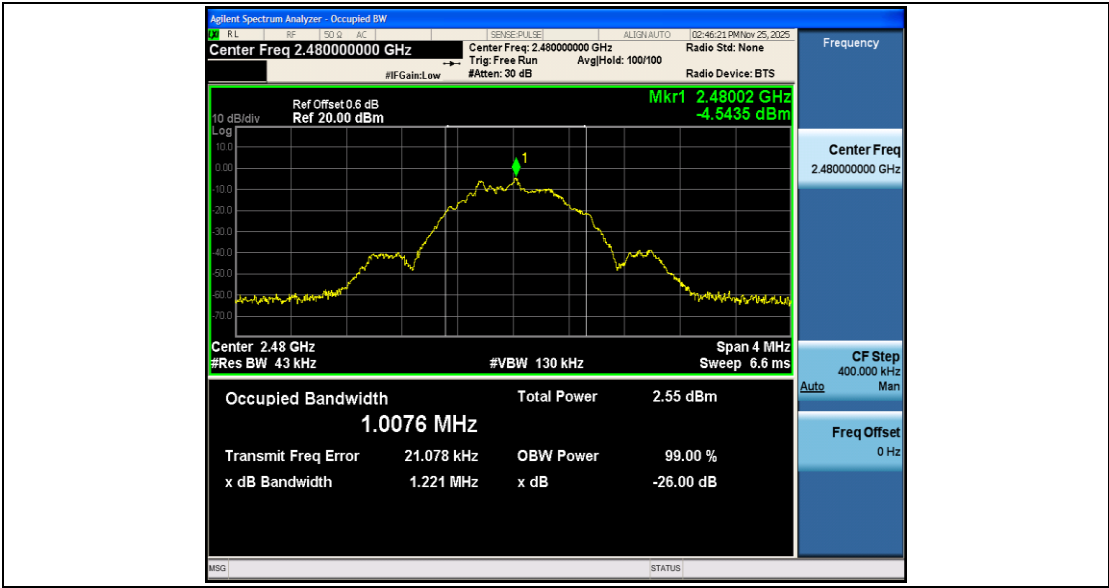
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0073	2401.5150	2402.5223	---	---
		2440	1.0011	2439.5191	2440.5202	---	---
		2480	1.0076	2479.5173	2480.5249	---	---

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	-3.20	≤30	PASS
		2440	-3.50	≤30	PASS
		2480	-3.52	≤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	-19.18	≤8.00	PASS
		2440	-19.62	≤8.00	PASS
		2480	-19.36	≤8.00	PASS

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.40200000 GHz

Ref Offset 0.6 dB
Ref 10.00 dBm

Mkr1 2.401 990 5 GHz
-19.177 dBm

Auto Tune

Center Freq
2.40200000 GHz

Start Freq
2.401523000 GHz

Stop Freq
2.402477000 GHz

CF Step
95.400 kHz
Auto Man

Freq Offset
0 Hz

Center 2.4020000 GHz

#Res BW 3.0 kHz

#VBW 10 kHz

Sweep (#Swp) 100.6 ms (1001 pts)

MSG (STATUS)

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.44000000 GHz

Ref Offset 0.6 dB
Ref 10.00 dBm

Mkr1 2.439 991 306 GHz
-19.624 dBm

Auto Tune

Center Freq
2.44000000 GHz

Start Freq
2.439517000 GHz

Stop Freq
2.440483000 GHz

CF Step
96.600 kHz
Auto Man

Freq Offset
0 Hz

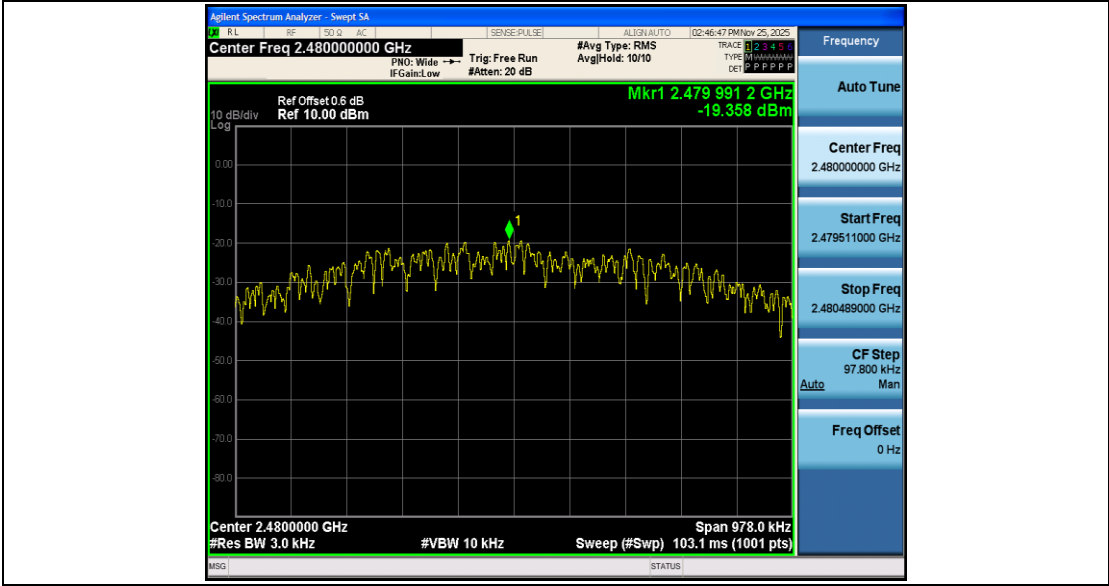
Center 2.4400000 GHz

#Res BW 3.0 kHz

#VBW 10 kHz

Sweep (#Swp) 101.9 ms (1001 pts)

MSG (STATUS)



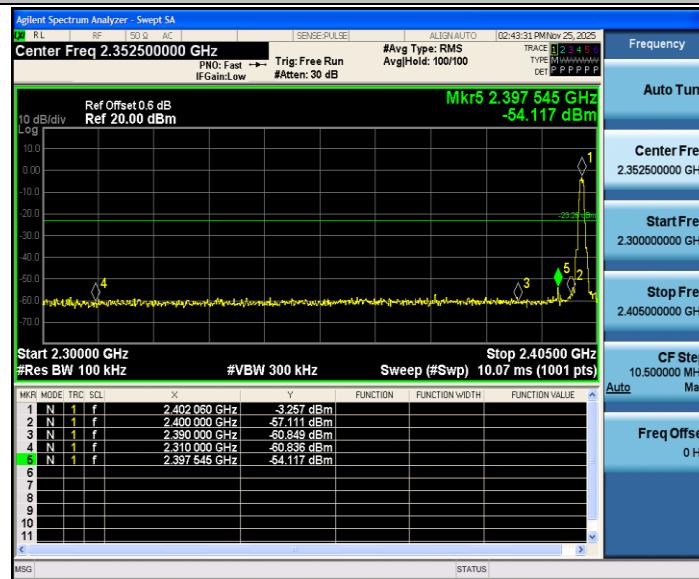
Appendix E: Band edge measurements

Test Result

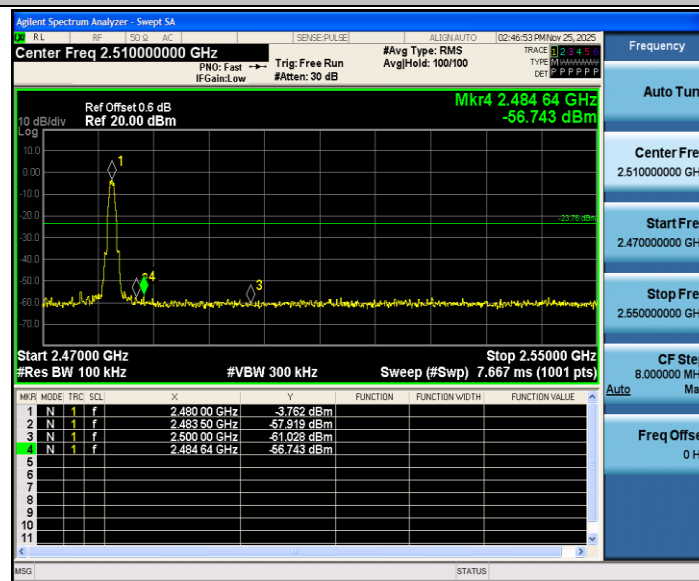
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.26	-54.12	≤ -23.26	PASS
		High	2480	-3.76	-56.74	≤ -23.76	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

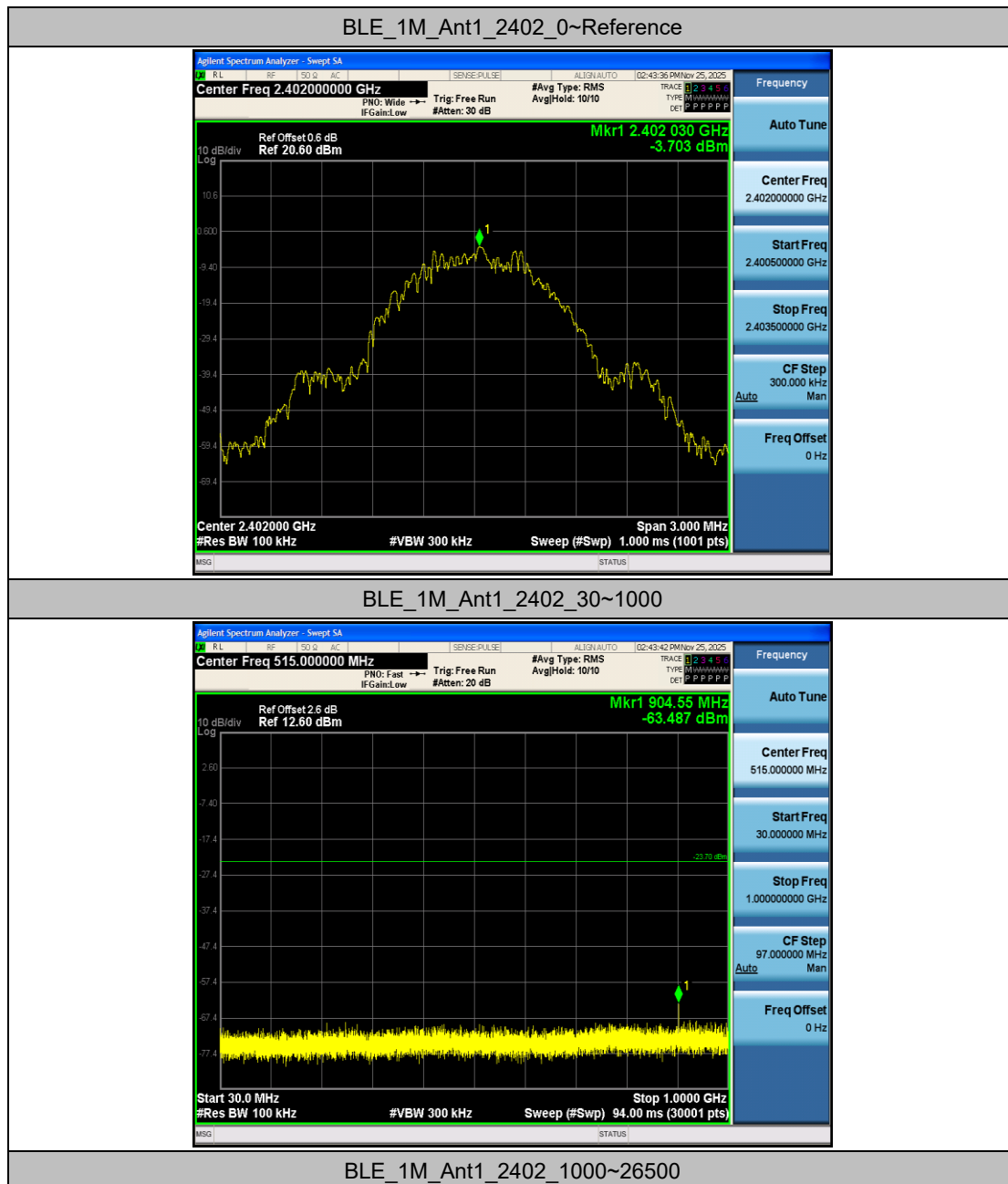


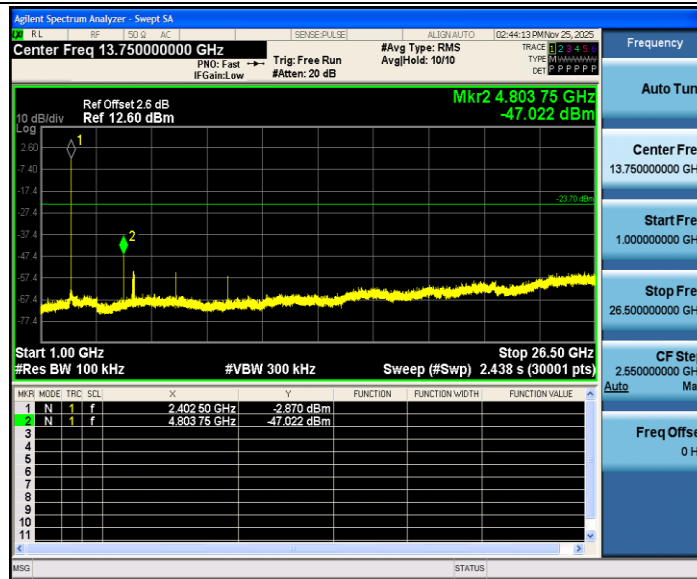
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.70	-3.70	---	PASS
			30~1000	-3.70	-63.49	≤-23.7	PASS
			1000~26500	-3.70	-47.02	≤-23.7	PASS
		2440	Reference	-4.74	-4.74	---	PASS
			30~1000	-4.74	-68.17	≤-24.74	PASS
			1000~26500	-4.74	-46.22	≤-24.74	PASS
		2480	Reference	-5.06	-5.06	---	PASS
			30~1000	-5.06	-66.83	≤-25.06	PASS
			1000~26500	-5.06	-46.95	≤-25.06	PASS

Test Graphs

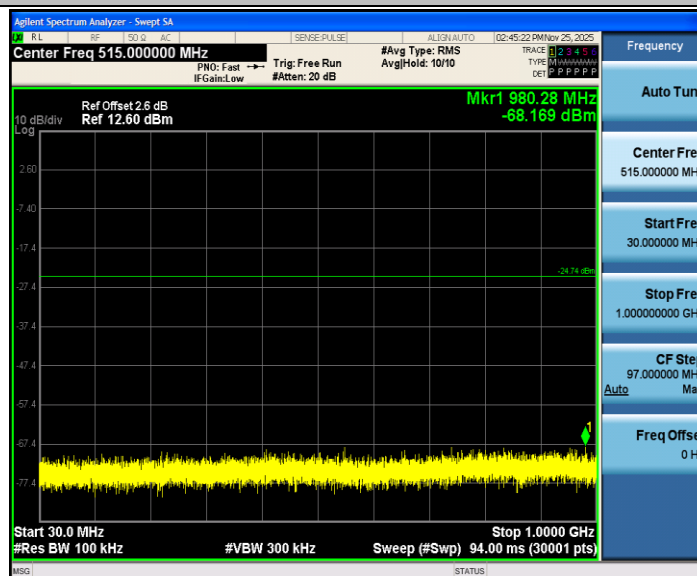




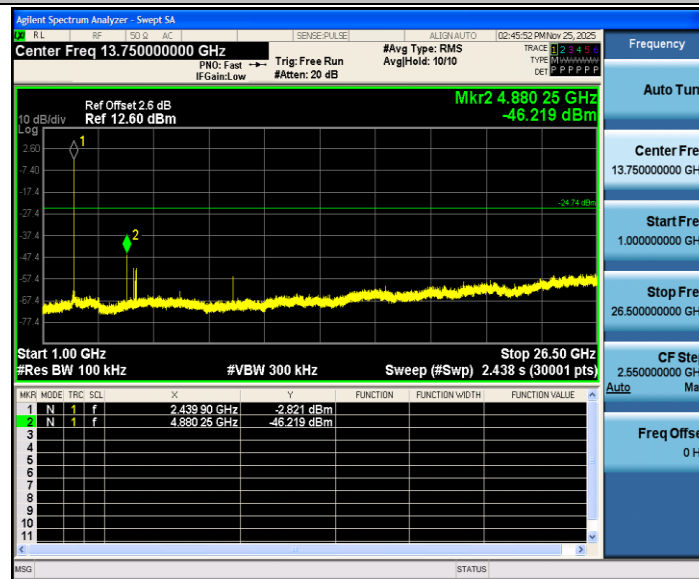
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



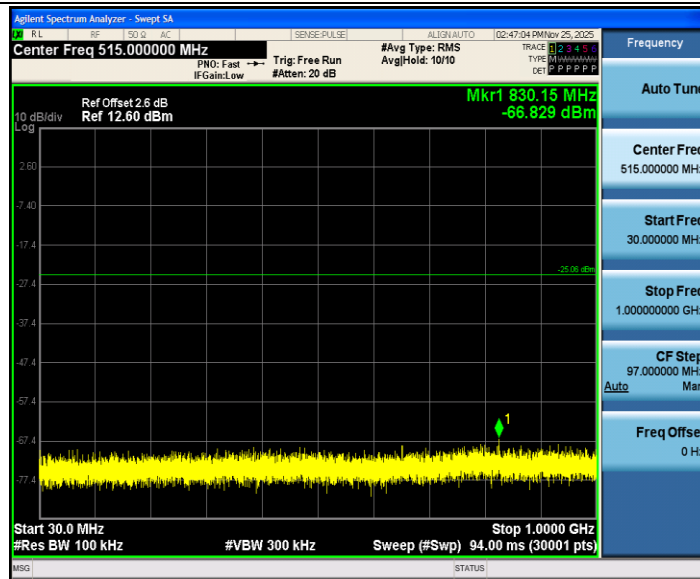
BLE_1M_Ant1_2440_1000~26500



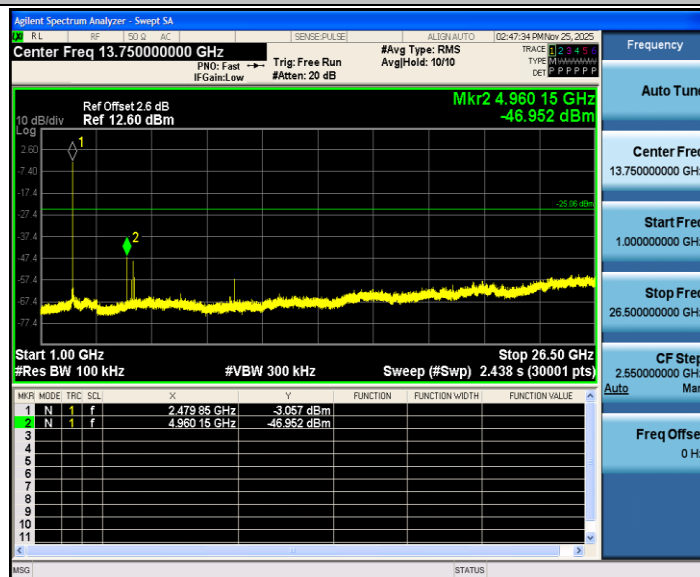
BLE_1M_Ant1_2480_0~Reference



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

