

FCC Appendix RF Test Data

FCC ID : 2BQR6-BN59-01385A

Company : shenzhenshiaowobeisidianzishangwuyouxiangongsi

EUT : remote control

Model Number : BN59-01385A

Report No. : CTA25062700101

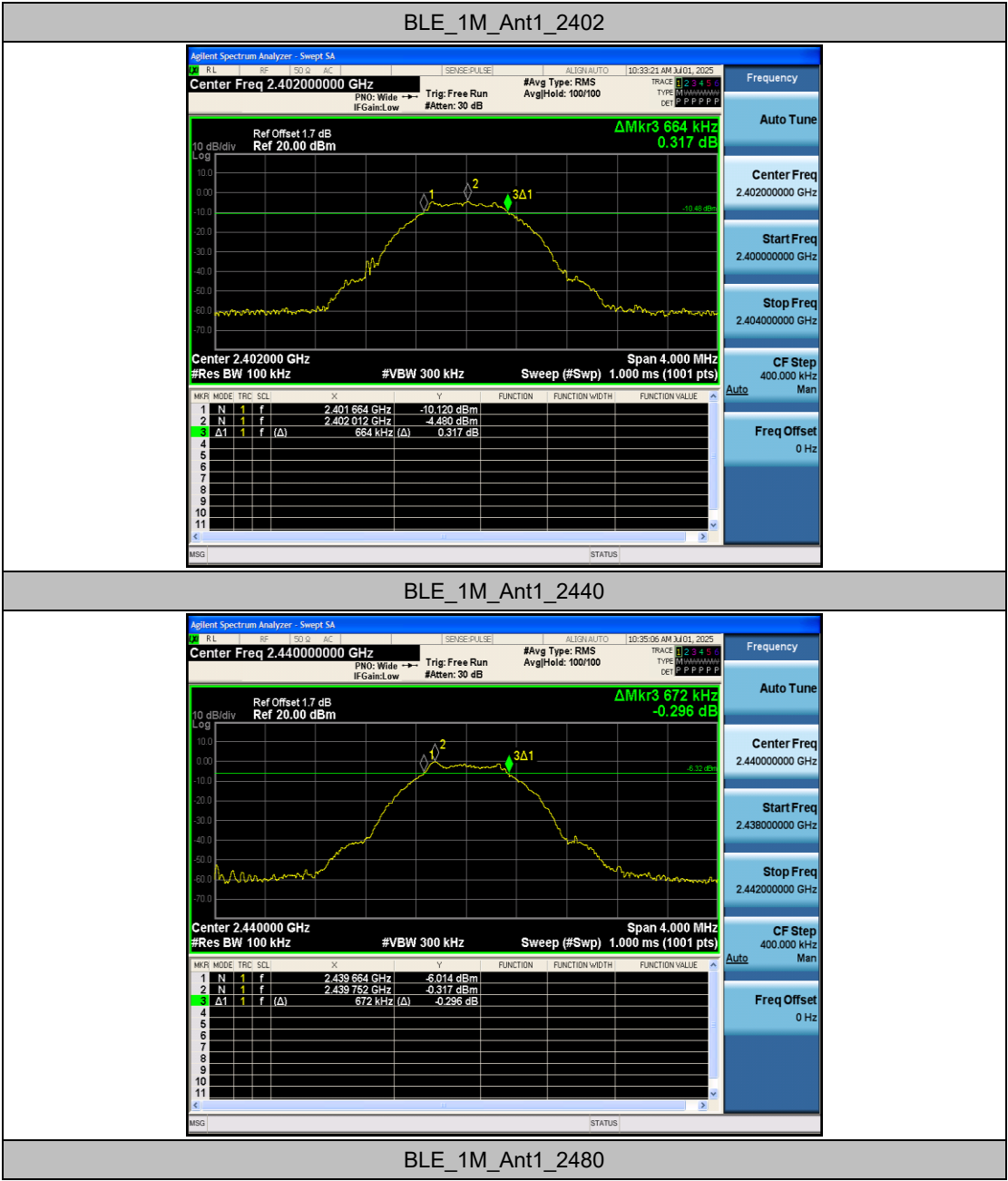
Reviewed By : Eric Wang

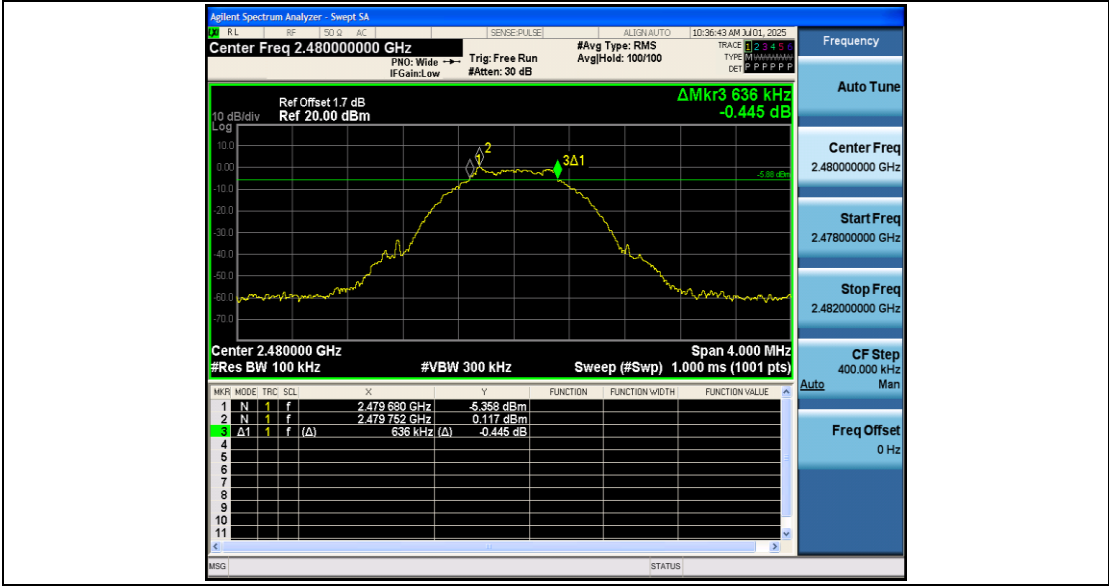
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.664	2402.328	0.5	PASS
		2440	0.672	2439.664	2440.336	0.5	PASS
		2480	0.636	2479.680	2480.316	0.5	PASS

Test Graphs



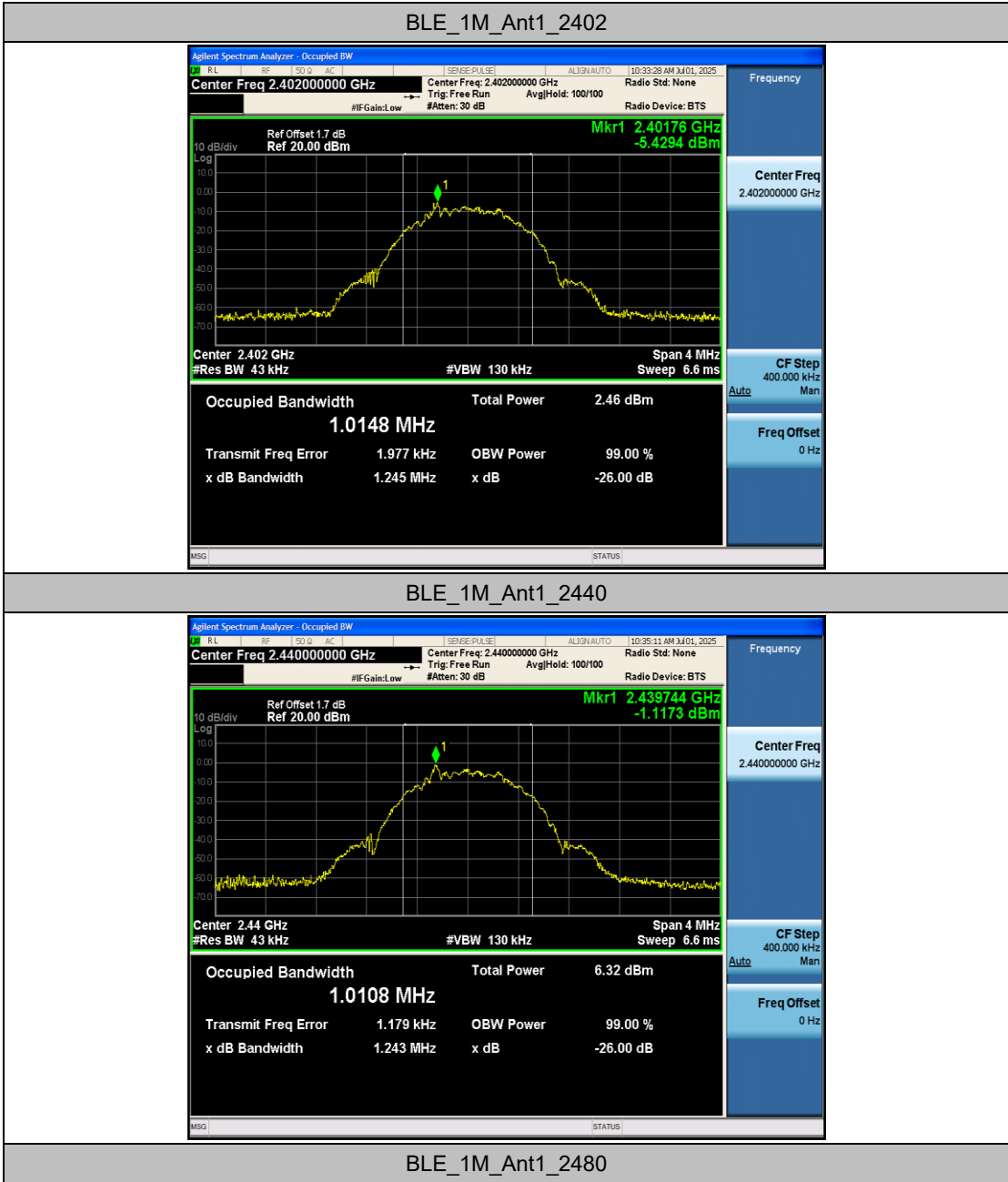


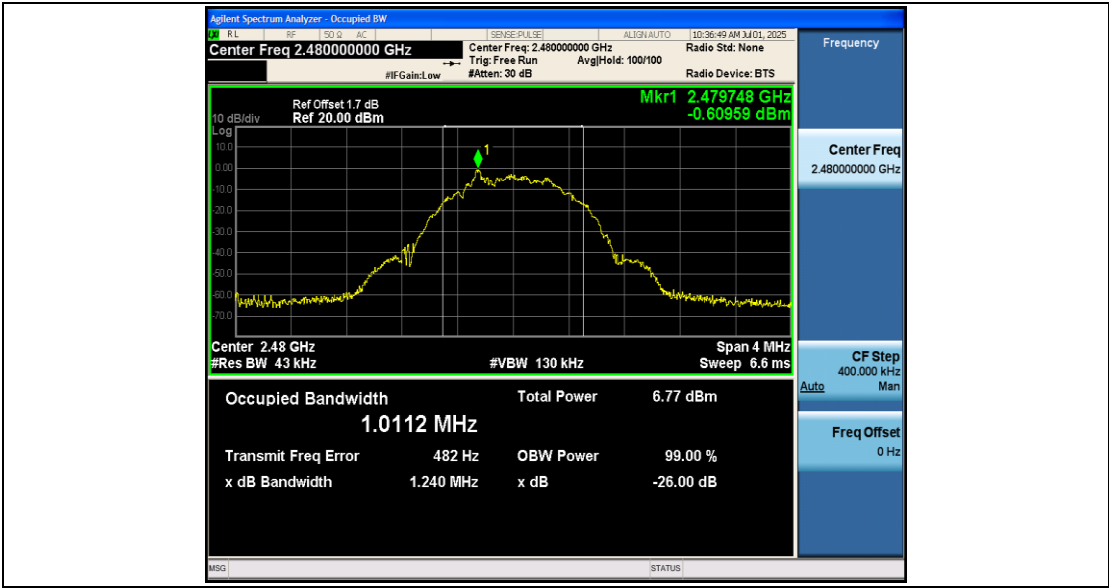
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0148	2401.4946	2402.5094	---	---
		2440	1.0108	2439.4958	2440.5066	---	---
		2480	1.0112	2479.4949	2480.5061	---	---

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	-3.43	≤30	PASS
		2440	0.17	≤30	PASS
		2480	0.59	≤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	-20.11	≤8.00	PASS
		2440	-16.52	≤8.00	PASS
		2480	-15.99	≤8.00	PASS

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.40200000 GHz

Ref Offset 1.7 dB
Ref 10.00 dBm

Mkr1 2.402 010 0 GHz
-20.109 dBm

Auto Tune

Center Freq
2.40200000 GHz

Start Freq
2.401502000 GHz

Stop Freq
2.402498000 GHz

CF Step
99.600 kHz
Man

Freq Offset
0 Hz

Center 2.4020000 GHz

#Res BW 3.0 kHz

#VBW 10 kHz

Sweep (#Swp) 105.1 ms (1001 pts)

Span 996.0 kHz

BLE_1M_Ant1_2402

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.44000000 GHz

Ref Offset 1.7 dB
Ref 10.00 dBm

Mkr1 2.440 010 1 GHz
-16.520 dBm

Auto Tune

Center Freq
2.44000000 GHz

Start Freq
2.439496000 GHz

Stop Freq
2.440504000 GHz

CF Step
100.800 kHz
Man

Freq Offset
0 Hz

Center 2.4400000 GHz

#Res BW 3.0 kHz

#VBW 10 kHz

Sweep (#Swp) 106.3 ms (1001 pts)

Span 1.008 MHz

BLE_1M_Ant1_2440

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.48000000 GHz

Ref Offset 1.7 dB
Ref 10.00 dBm

Mkr1 2.480 010 0 GHz
-16.520 dBm

Auto Tune

Center Freq
2.48000000 GHz

Start Freq
2.479496000 GHz

Stop Freq
2.480504000 GHz

CF Step
100.800 kHz
Man

Freq Offset
0 Hz

Center 2.4800000 GHz

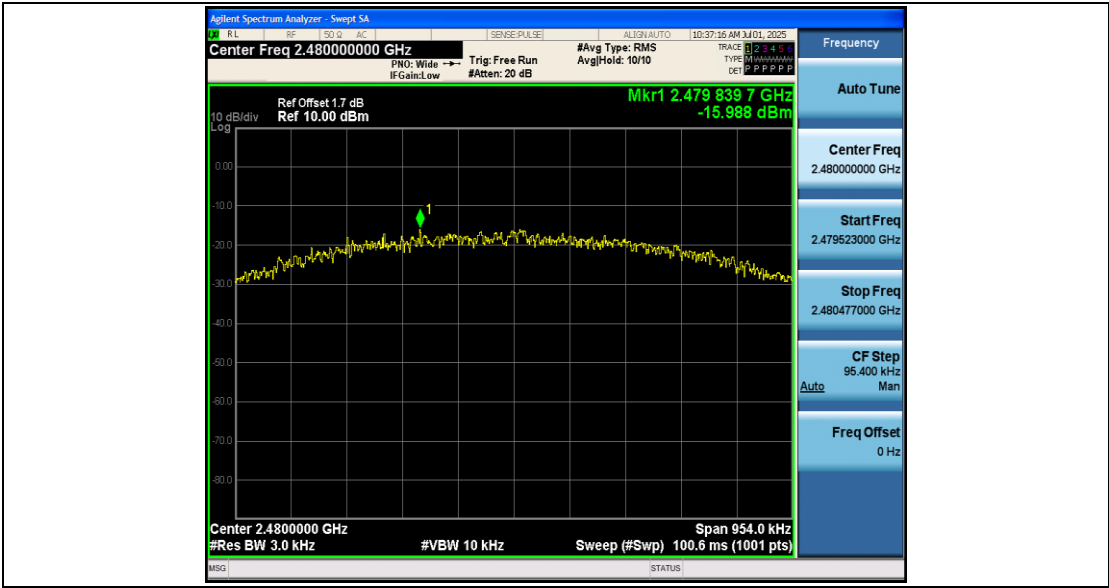
#Res BW 3.0 kHz

#VBW 10 kHz

Sweep (#Swp) 106.3 ms (1001 pts)

Span 1.008 MHz

BLE_1M_Ant1_2480

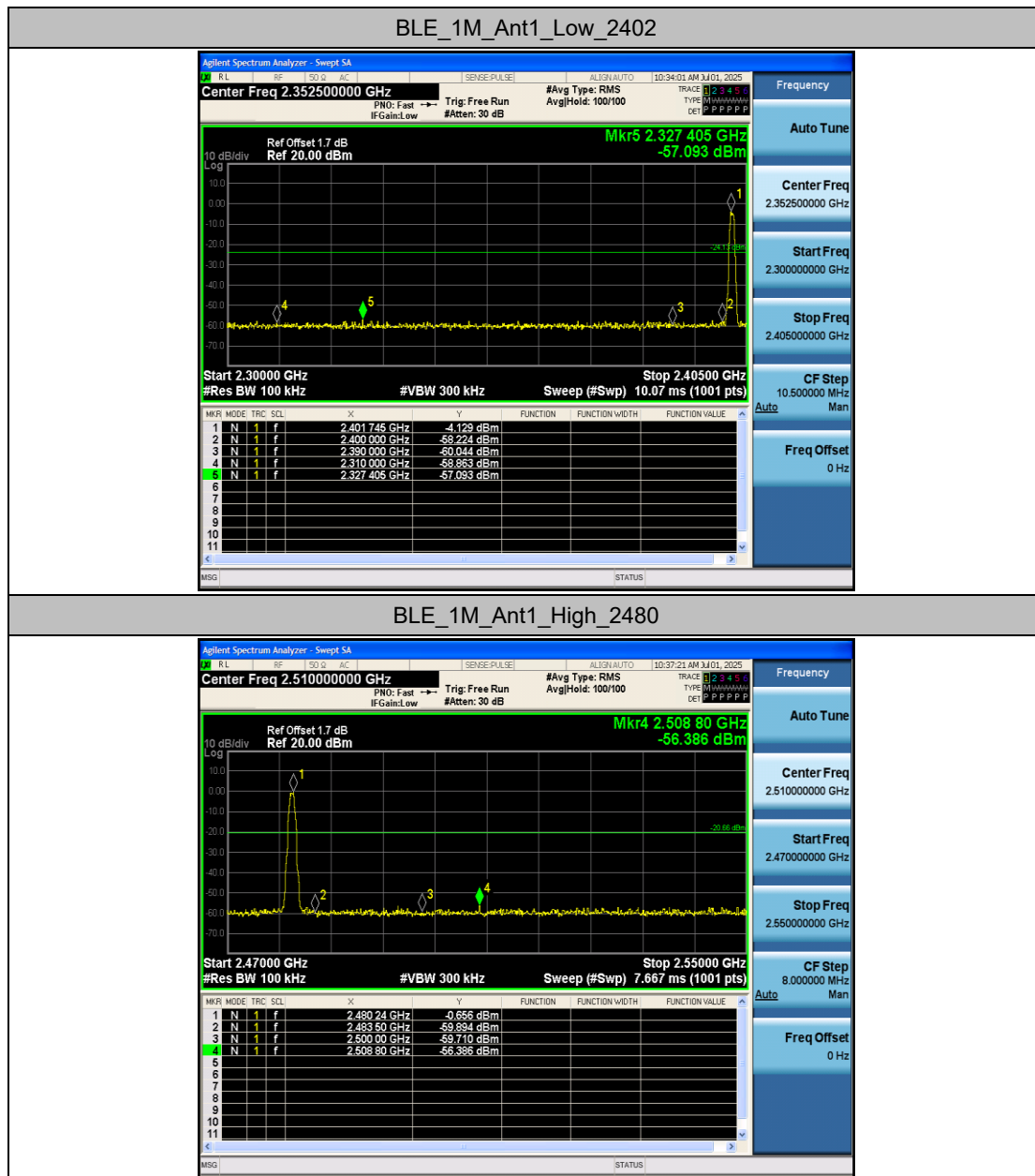


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-4.13	-57.09	≤-24.13	PASS
		High	2480	-0.66	-56.39	≤-20.66	PASS

Test Graphs

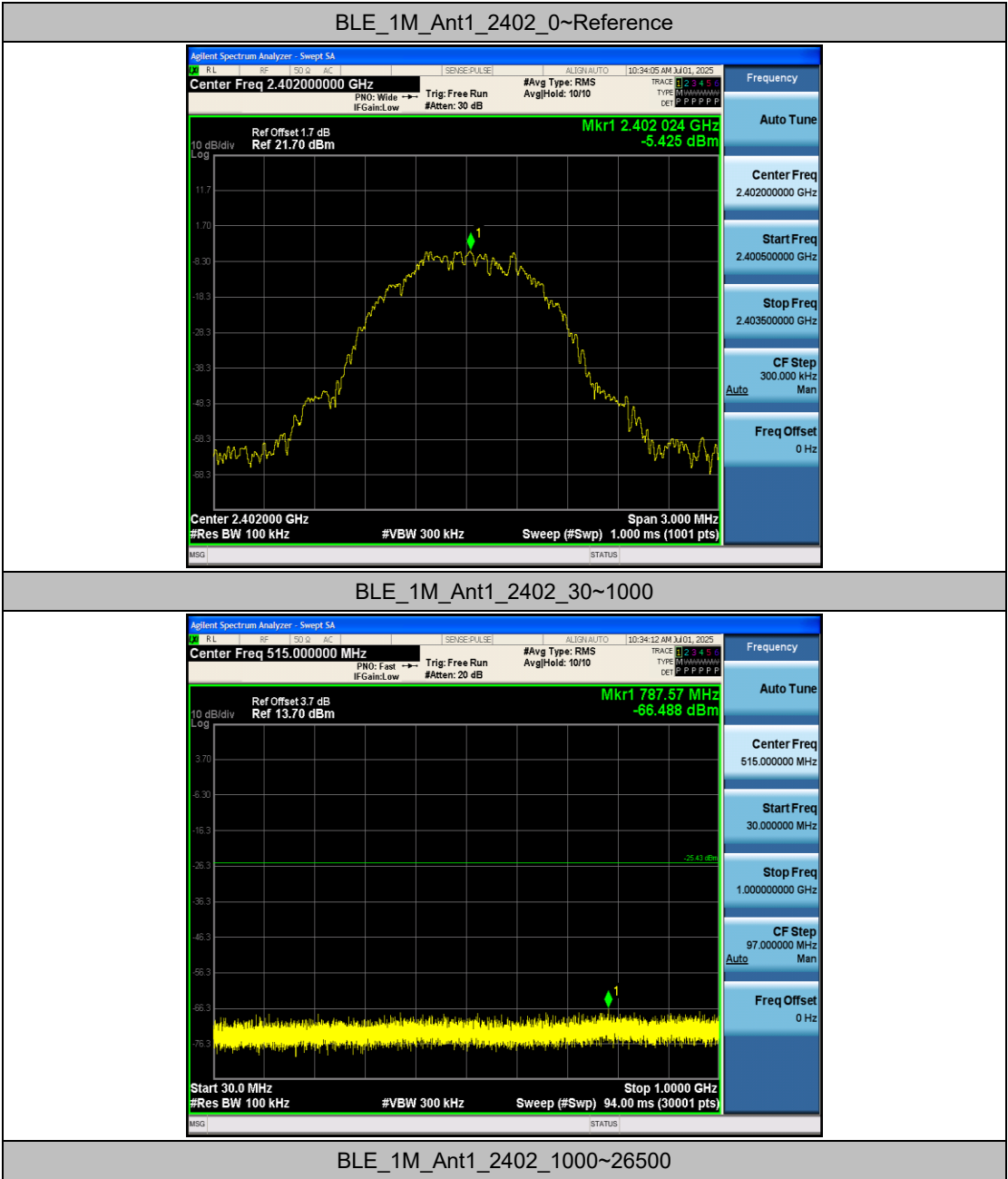


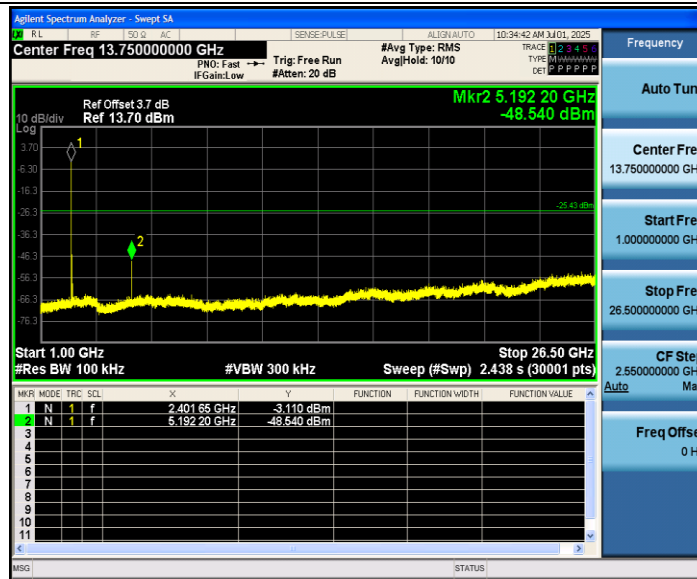
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-5.43	-5.43	---	PASS
			30~1000	-5.43	-66.49	≤-25.43	PASS
			1000~26500	-5.43	-48.54	≤-25.43	PASS
		2440	Reference	-1.01	-1.01	---	PASS
			30~1000	-1.01	-56.67	≤-21.01	PASS
			1000~26500	-1.01	-54.01	≤-21.01	PASS
		2480	Reference	-1.29	-1.29	---	PASS
			30~1000	-1.29	-66.99	≤-21.29	PASS
			1000~26500	-1.29	-53.93	≤-21.29	PASS

Test Graphs

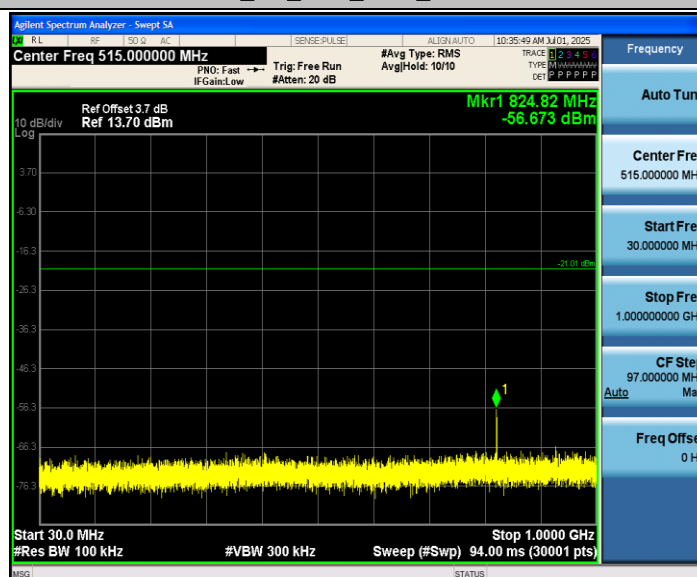




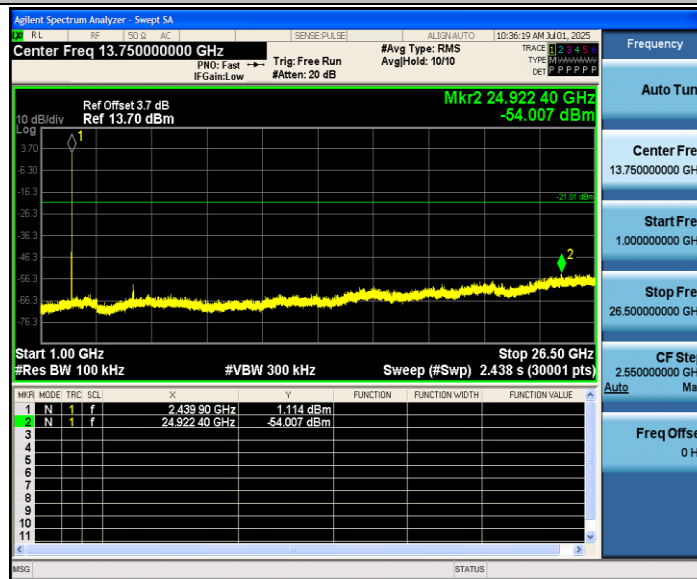
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



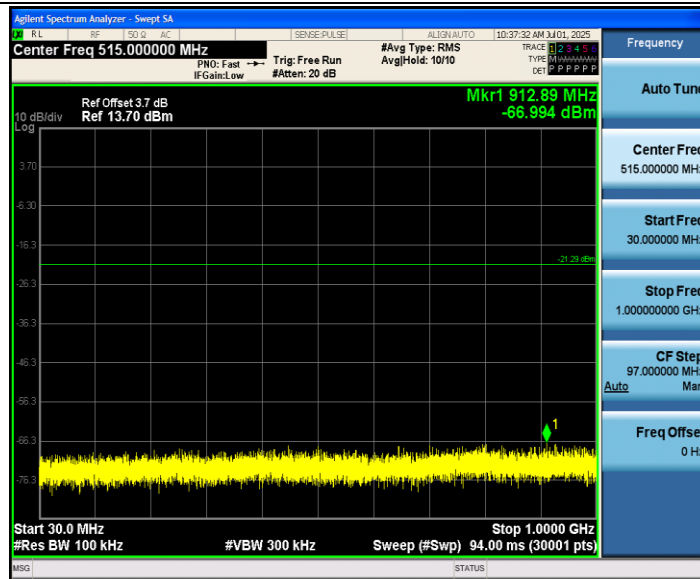
BLE_1M_Ant1_2440_1000~26500



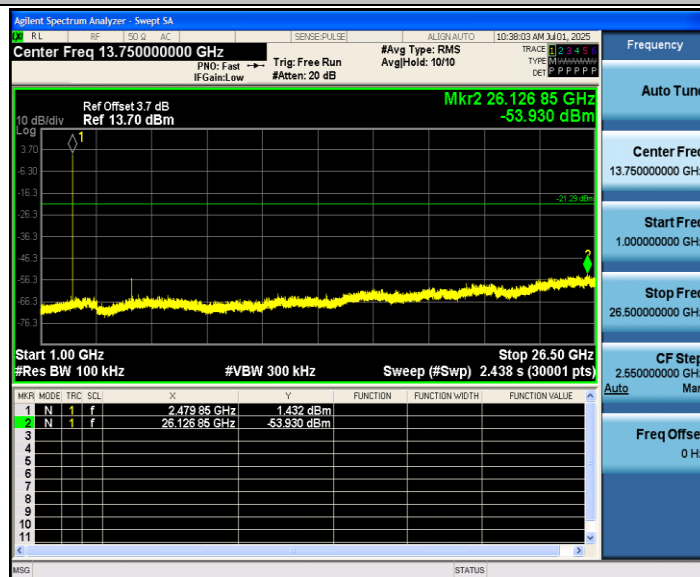
BLE_1M_Ant1_2480_0~Reference



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	1.64	1.87	0.8770	87.70	0.57	---	---
		2440	1.64	1.87	0.8770	87.70	0.57	---	---
		2480	1.64	1.87	0.8770	87.70	0.57	---	---

Test Graphs

