

Appendix RF Test Data

FCC ID : 2BR3A-SN5

Company : Shenzhen city Hechuanghui Technology Co., Ltd

EUT : Magnetic selfie screen

Model Number : SN5

Report No. : CTA25082600401

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	2401.688	2402.324	0.5	PASS
		2440	0.652	2439.688	2440.340	0.5	PASS
		2480	0.652	2479.688	2480.340	0.5	PASS

Agilent Spectrum Analyzer - Sweep SA

Center Freq 2.402000000 GHz

Ref Offset 0.2 dB
Ref 20.00 dBm

Trig: Free Run
#Atten: 30 dB

#Avg Type: RMS
Avg/Hold: 100/100

Span 4.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep (#Swp) 1.000 ms (1001 pts)

ΔMkr3 636 kHz
0.374 dB

Log

10 dB/div

1

2

3Δ1

Center 2.402000 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 4.000 MHz

Sweep (#Swp) 1.000 ms (1001 pts)

MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.401 688 GHz	-9.516 dBm			
2	N	1	f	2.402 000 GHz	-3.892 dBm			
3	Δ	1	f (Δ)	636 kHz (Δ)	0.374 dB			

Frequency

Auto Tune

Center Freq
2.402000000 GHz

Start Freq
2.400000000 GHz

Stop Freq
2.404000000 GHz

CF Step
400.000 kHz
Man

Freq Offset
0 Hz

MSO

STATUS

BLE_1M_Ant1_2402

Agilent Spectrum Analyzer - Sweep SA

Center Freq 2.440000000 GHz

Ref Offset 0.2 dB
Ref 20.00 dBm

Trig: Free Run
#Atten: 30 dB

#Avg Type: RMS
Avg/Hold: 100/100

Span 4.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep (#Swp) 1.000 ms (1001 pts)

ΔMkr3 652 kHz
-0.293 dB

Log

10 dB/div

1

2

3Δ1

Center 2.440000 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 4.000 MHz

Sweep (#Swp) 1.000 ms (1001 pts)

MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.439 688 GHz	-10.122 dBm			
2	N	1	f	2.440 032 GHz	-4.627 dBm			
3	Δ	1	f (Δ)	652 kHz (Δ)	-0.293 dB			

Frequency

Auto Tune

Center Freq
2.440000000 GHz

Start Freq
2.438000000 GHz

Stop Freq
2.442000000 GHz

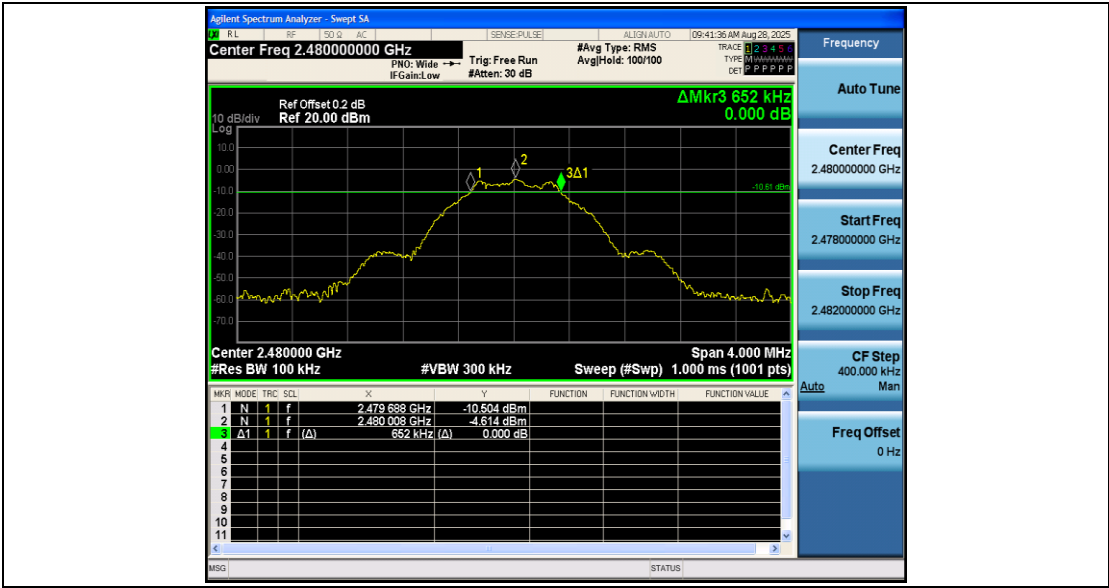
CF Step
400.000 kHz
Man

Freq Offset
0 Hz

MSO

STATUS

BLE_1M_Ant1_2440

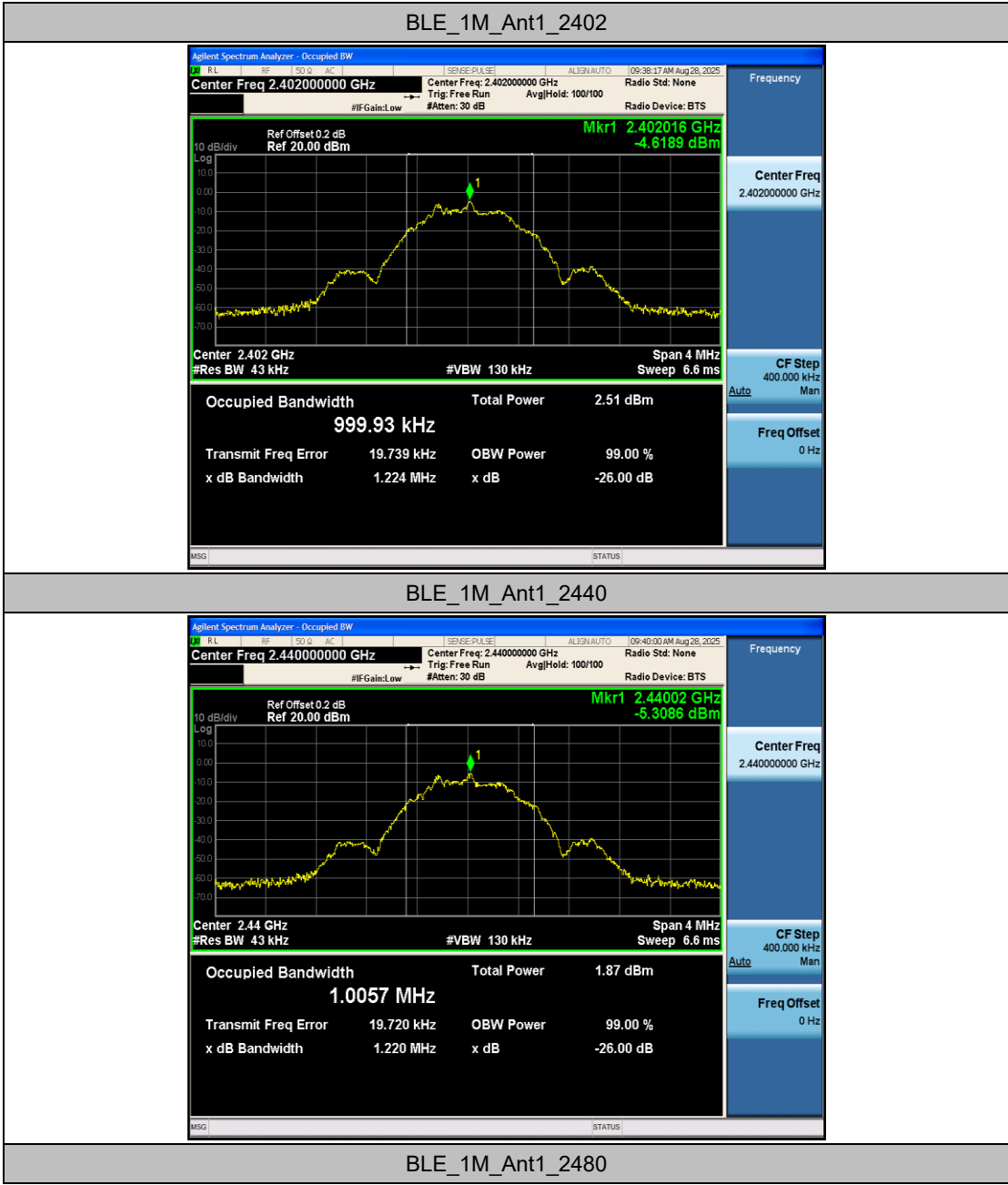


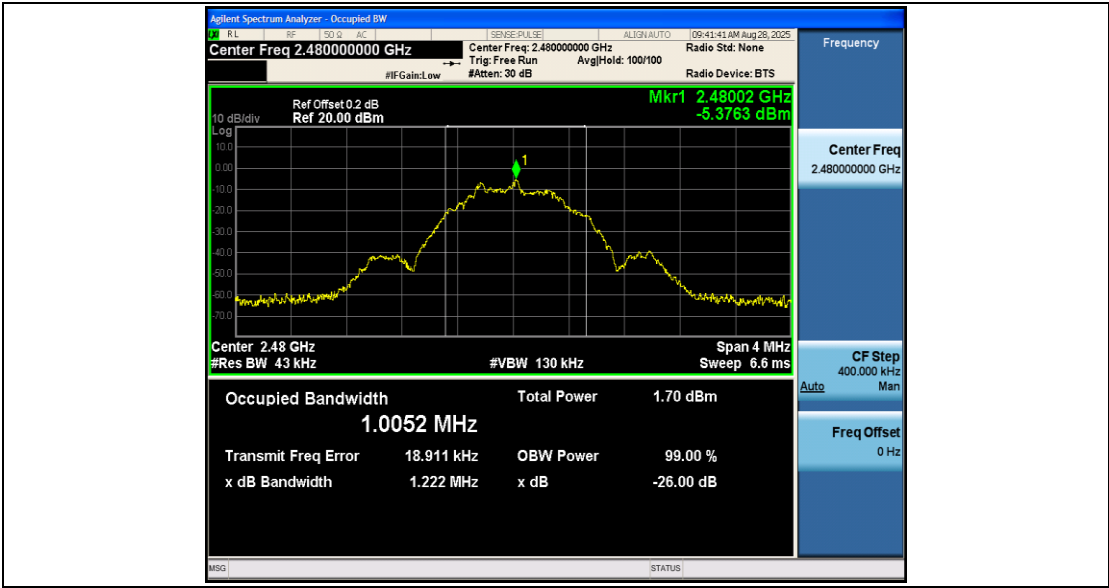
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.99993	2401.5198	2402.5197	---	---
		2440	1.0057	2439.5169	2440.5226	---	---
		2480	1.0052	2479.5163	2480.5215	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

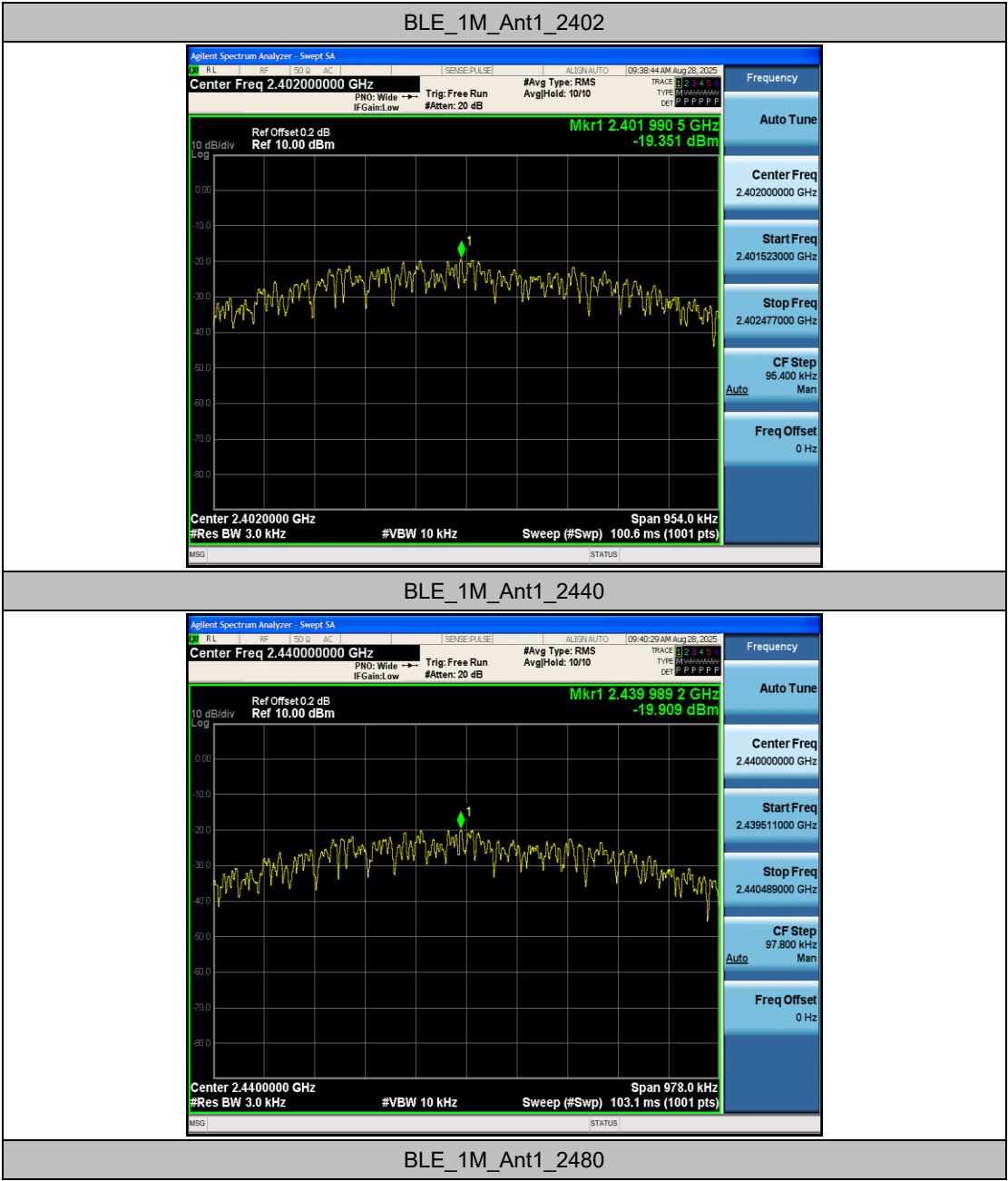
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.61	≤30	PASS
		2440	-4.17	≤30	PASS
		2480	-4.36	≤30	PASS

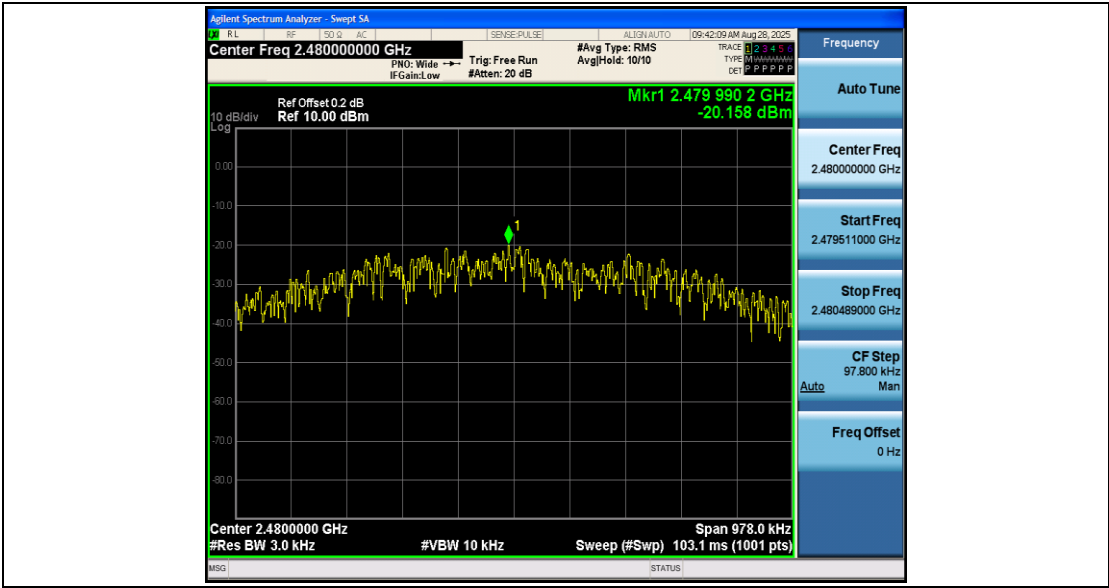
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.35	≤8.00	PASS
		2440	-19.91	≤8.00	PASS
		2480	-20.16	≤8.00	PASS

Test Graphs



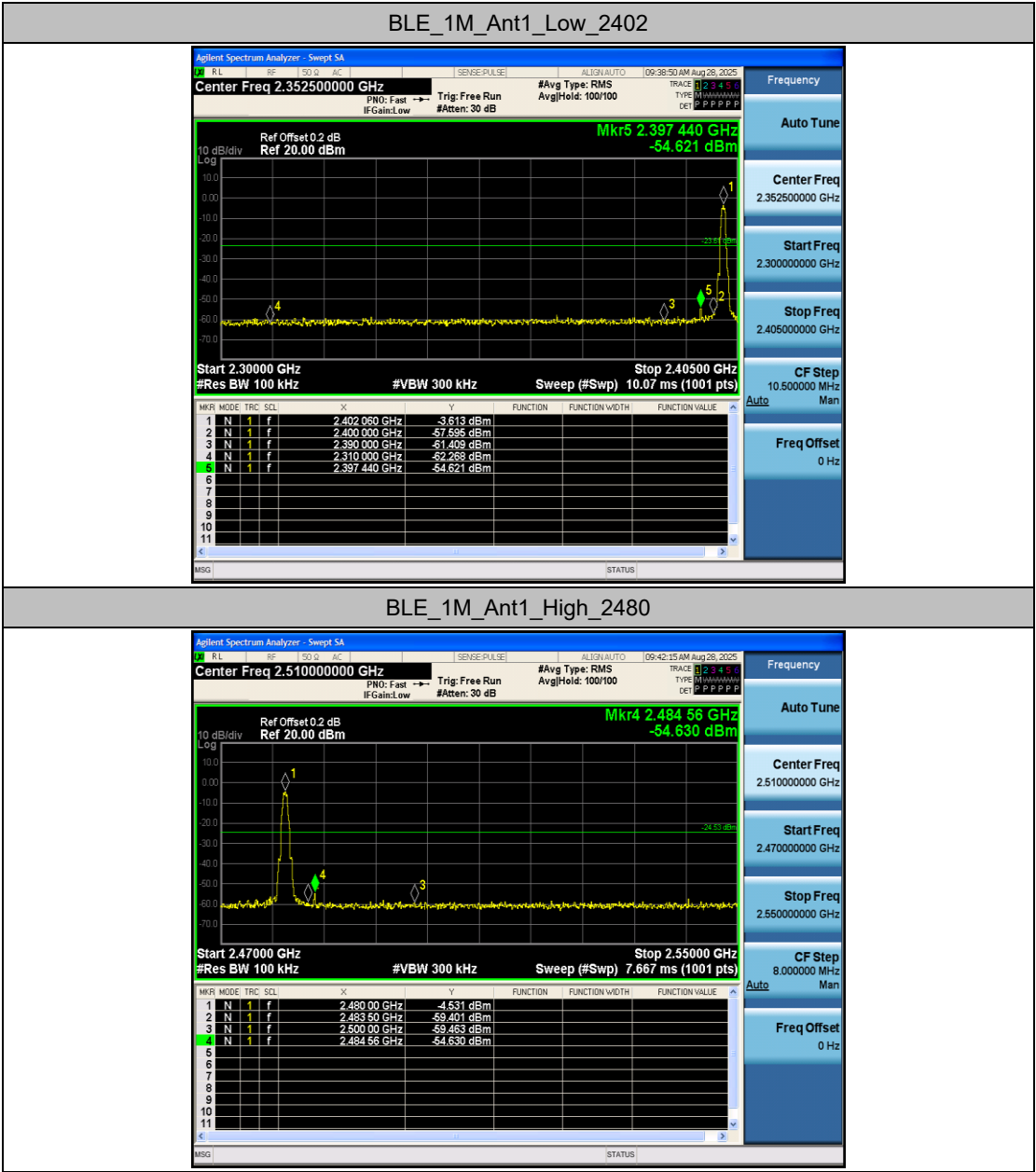


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-3.61	-54.62	≤-23.61	PASS
		High	2480	-4.53	-54.63	≤-24.53	PASS

Test Graphs

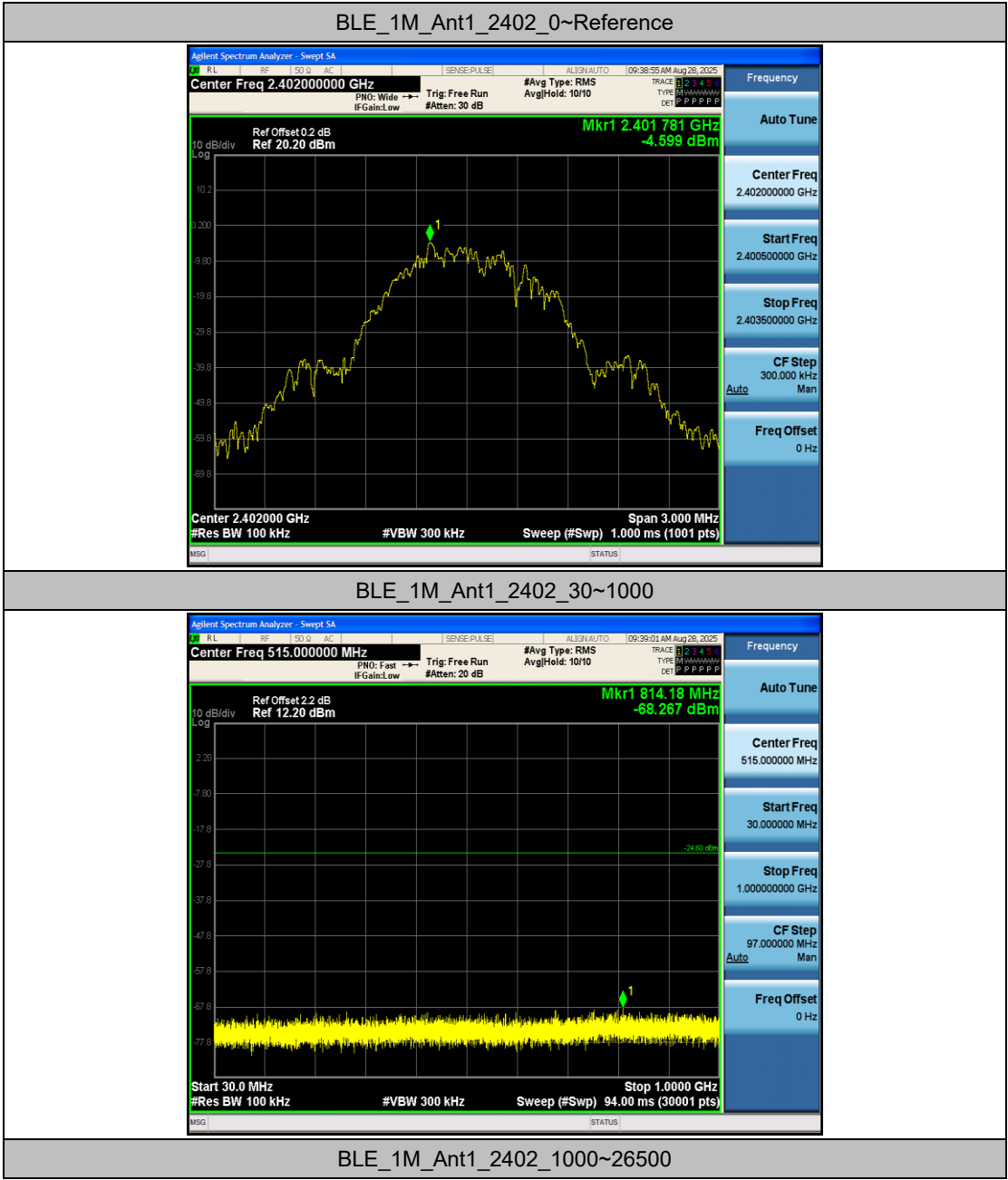


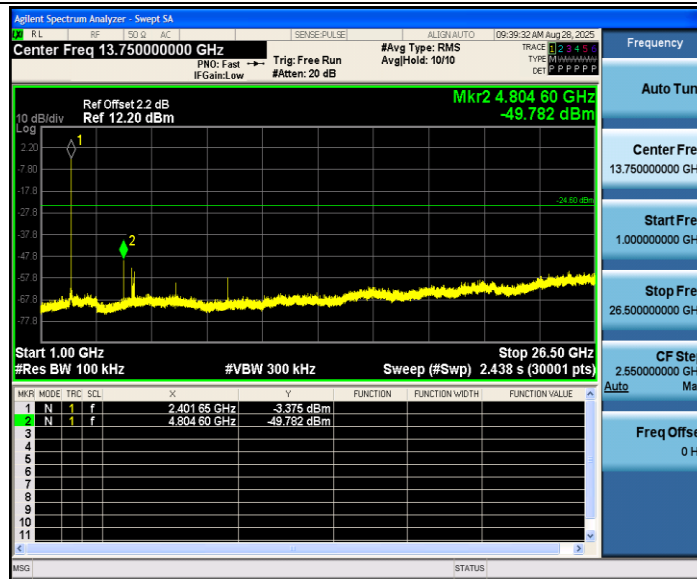
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.60	-4.60	---	PASS
			30~1000	-4.60	-68.27	≤-24.6	PASS
			1000~26500	-4.60	-49.78	≤-24.6	PASS
		2440	Reference	-5.10	-5.10	---	PASS
			30~1000	-5.10	-68.04	≤-25.1	PASS
			1000~26500	-5.10	-46.01	≤-25.1	PASS
		2480	Reference	-4.96	-4.96	---	PASS
			30~1000	-4.96	-67.75	≤-24.96	PASS
			1000~26500	-4.96	-47.28	≤-24.96	PASS

Test Graphs

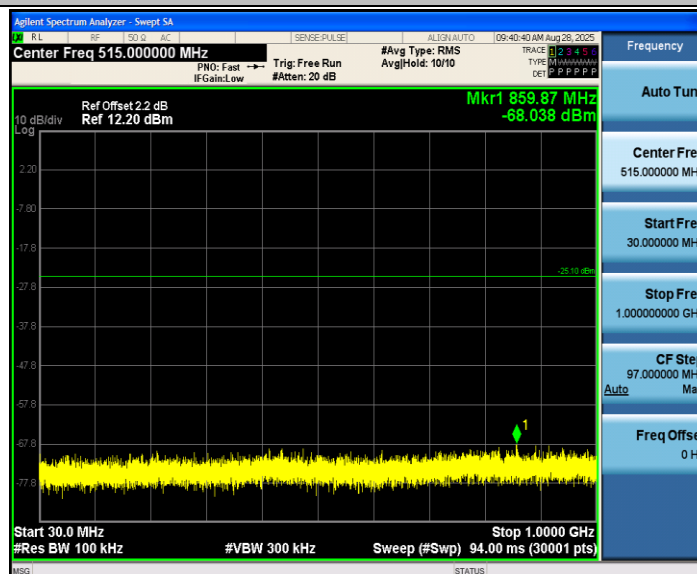




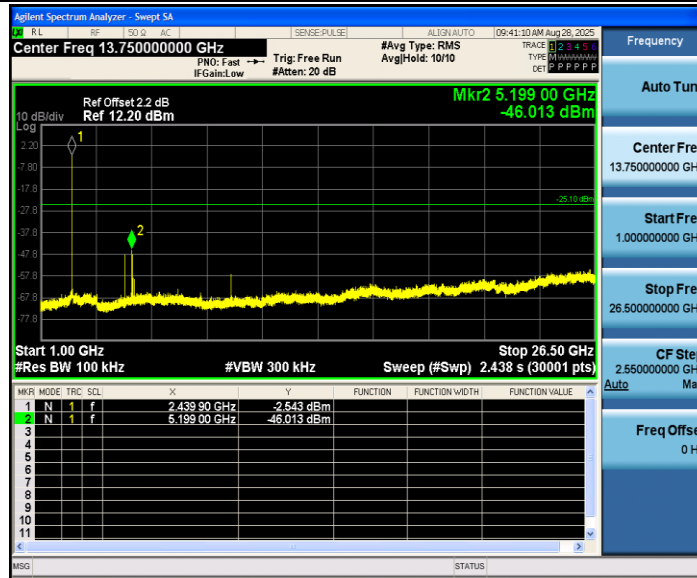
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



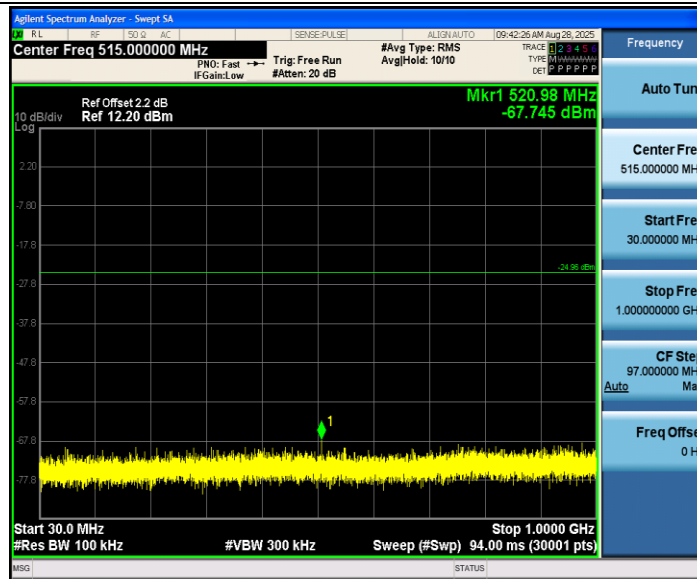
BLE_1M_Ant1_2440_1000~26500



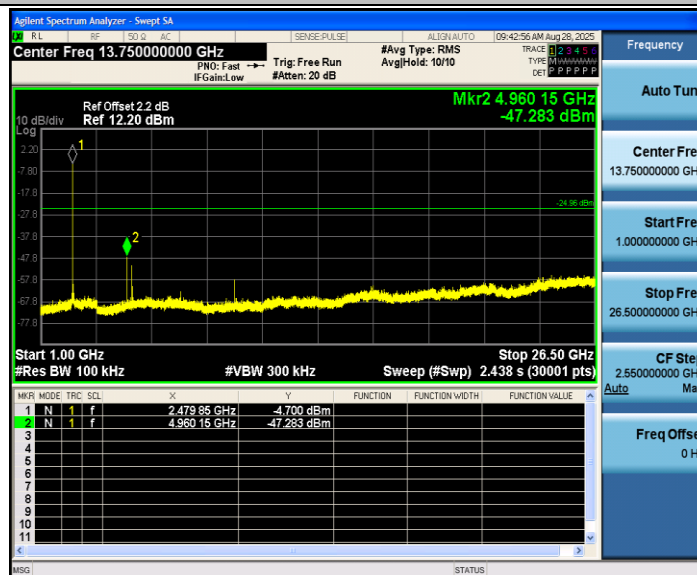
BLE_1M_Ant1_2480_0~Reference



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

