

FCC Appendix RF Test Data

FCC ID : 2BMDX-A40N-14-WB

Company: : Aixin Green Energy (Zhejiang) Technology Co.,Ltd

EUT : Portable Electric Vehicle Charger

Model Number : PX-US-A40N-14-WB

Report No. : CTA25041600201

Reviewed By : Eric Wang

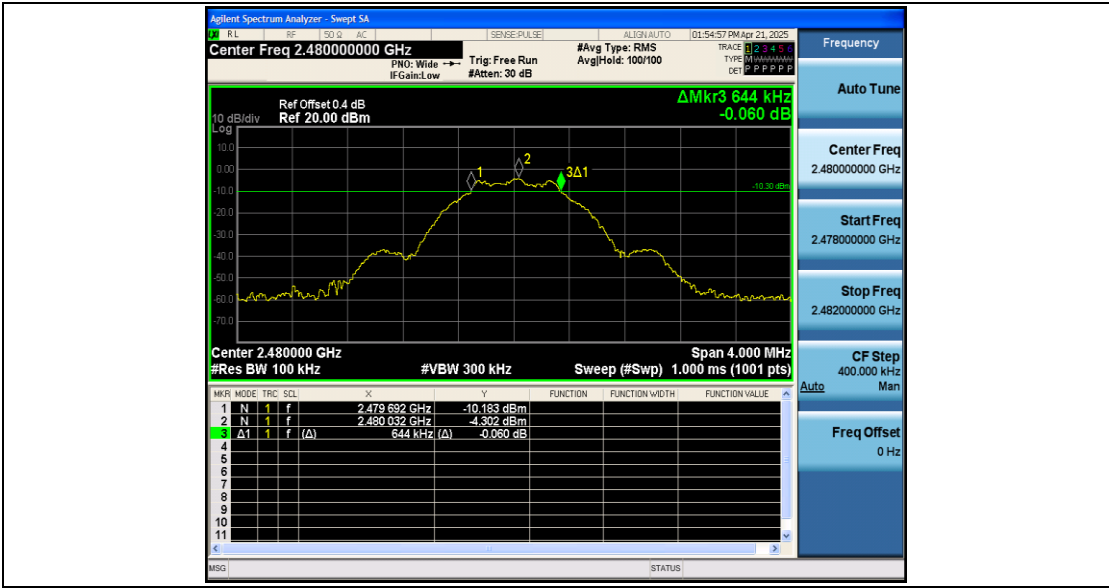
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.640	2401.696	2402.336	0.5	PASS
		2440	0.648	2439.688	2440.336	0.5	PASS
		2480	0.644	2479.692	2480.336	0.5	PASS

Test Graphs



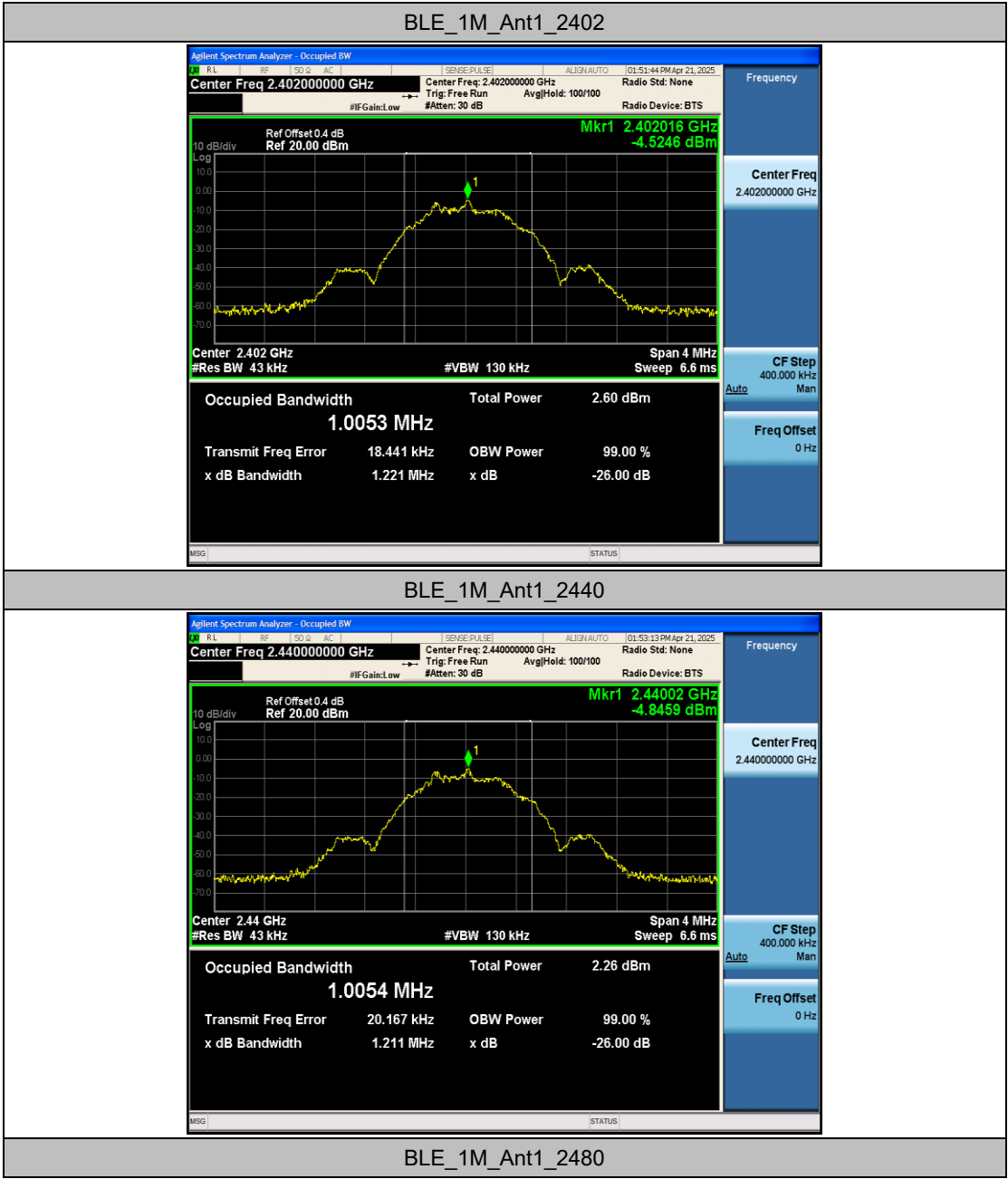


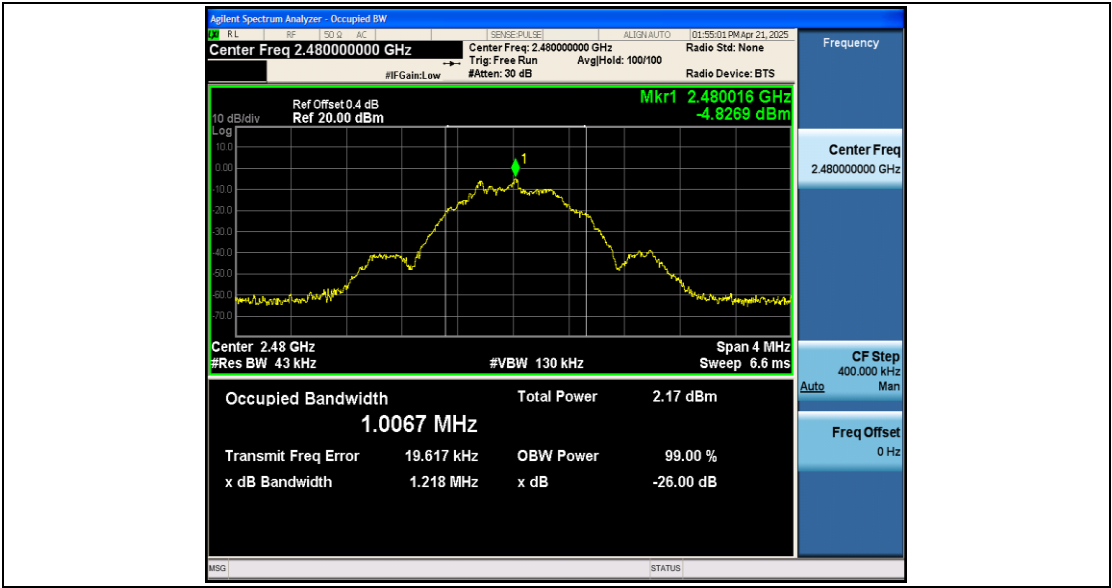
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0053	2401.5158	2402.5211	---	---
		2440	1.0054	2439.5175	2440.5229	---	---
		2480	1.0067	2479.5163	2480.5230	---	---

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	-3.49	≤30	PASS
		2440	-3.78	≤30	PASS
		2480	-3.81	≤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	-19.26	≤8.00	PASS
		2440	-19.47	≤8.00	PASS
		2480	-19.71	≤8.00	PASS

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.40200000 GHz

Ref Offset 0.4 dB
Ref 10.00 dBm

Mkr1 2.40199040 GHz
-19.261 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 2.44000000 GHz

Ref Offset 0.4 dB
Ref 10.00 dBm

Mkr1 2.439990280 GHz
-19.474 dBm

Auto Tune

Center Freq
2.44000000 GHz

Start Freq
2.439514000 GHz

Stop Freq
2.440486000 GHz

CF Step
97.200 kHz
Auto Man

Freq Offset
0 Hz

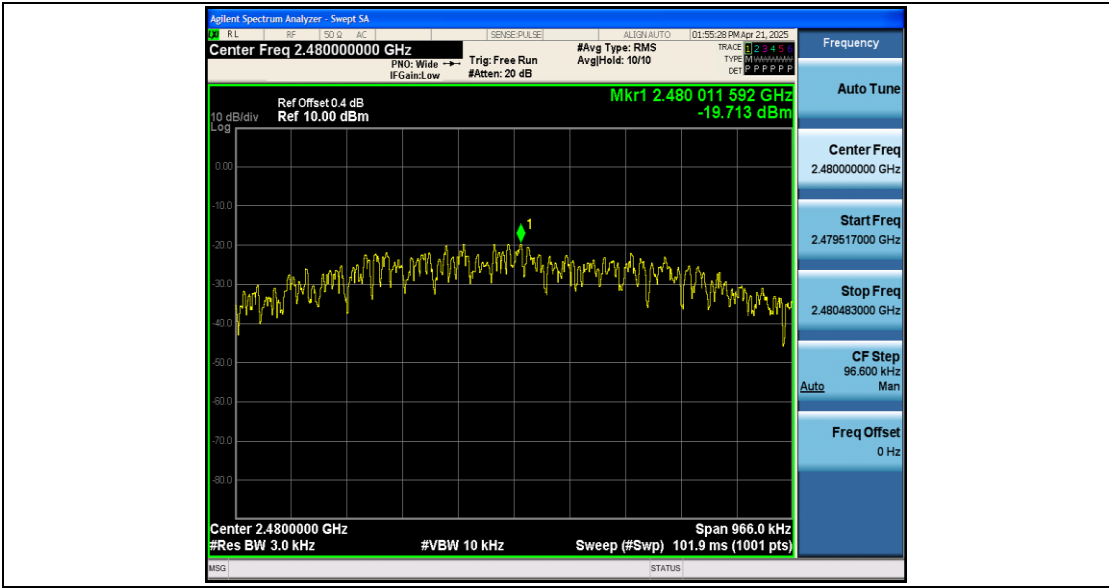
Center 2.4400000 GHz

#Res BW 3.0 kHz

#VBW 10 kHz

Sweep (#Swp) 102.5 ms (1001 pts)

MSG (STATUS)

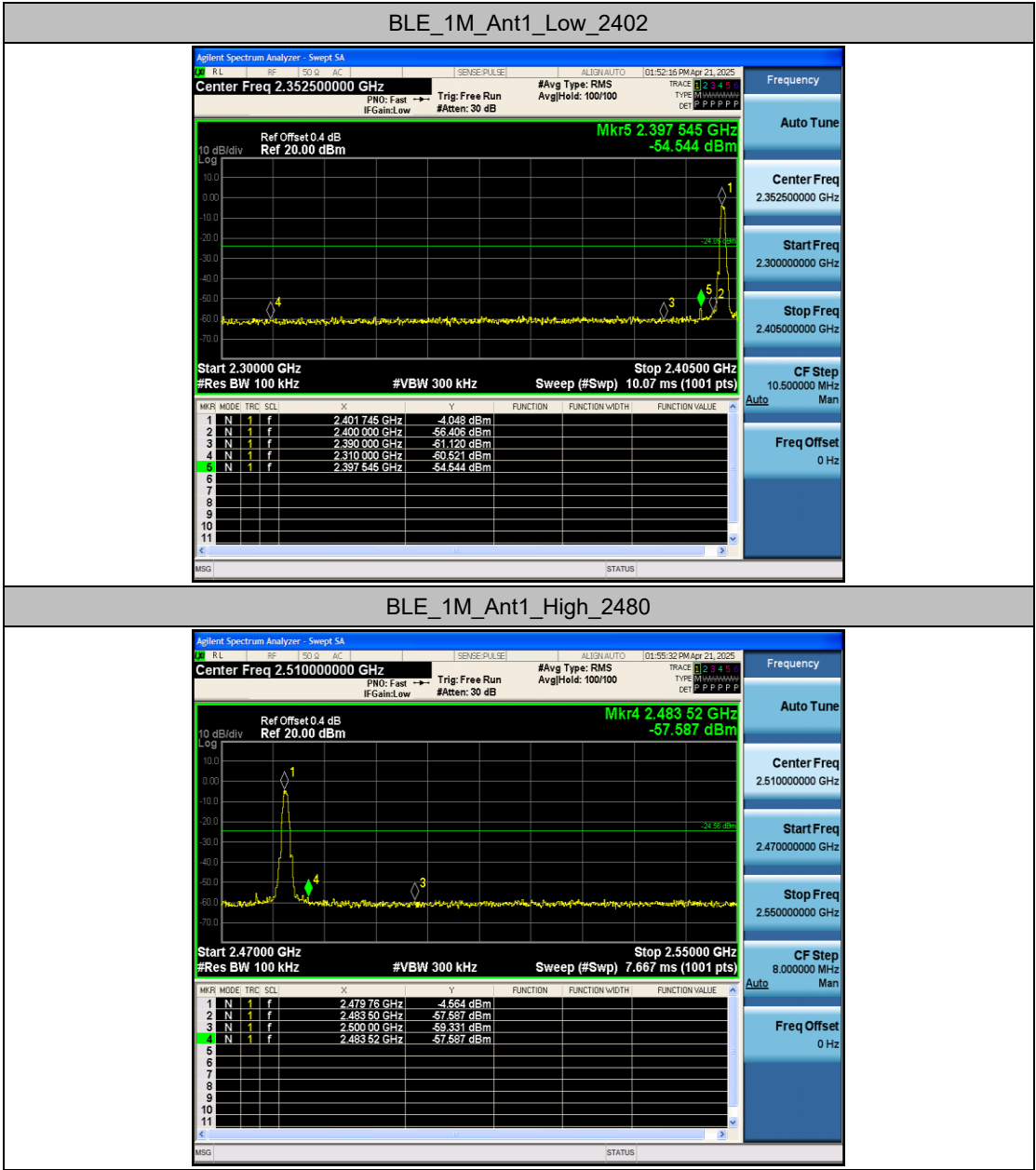


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-4.05	-54.54	≤-24.05	PASS
		High	2480	-4.56	-57.59	≤-24.56	PASS

Test Graphs

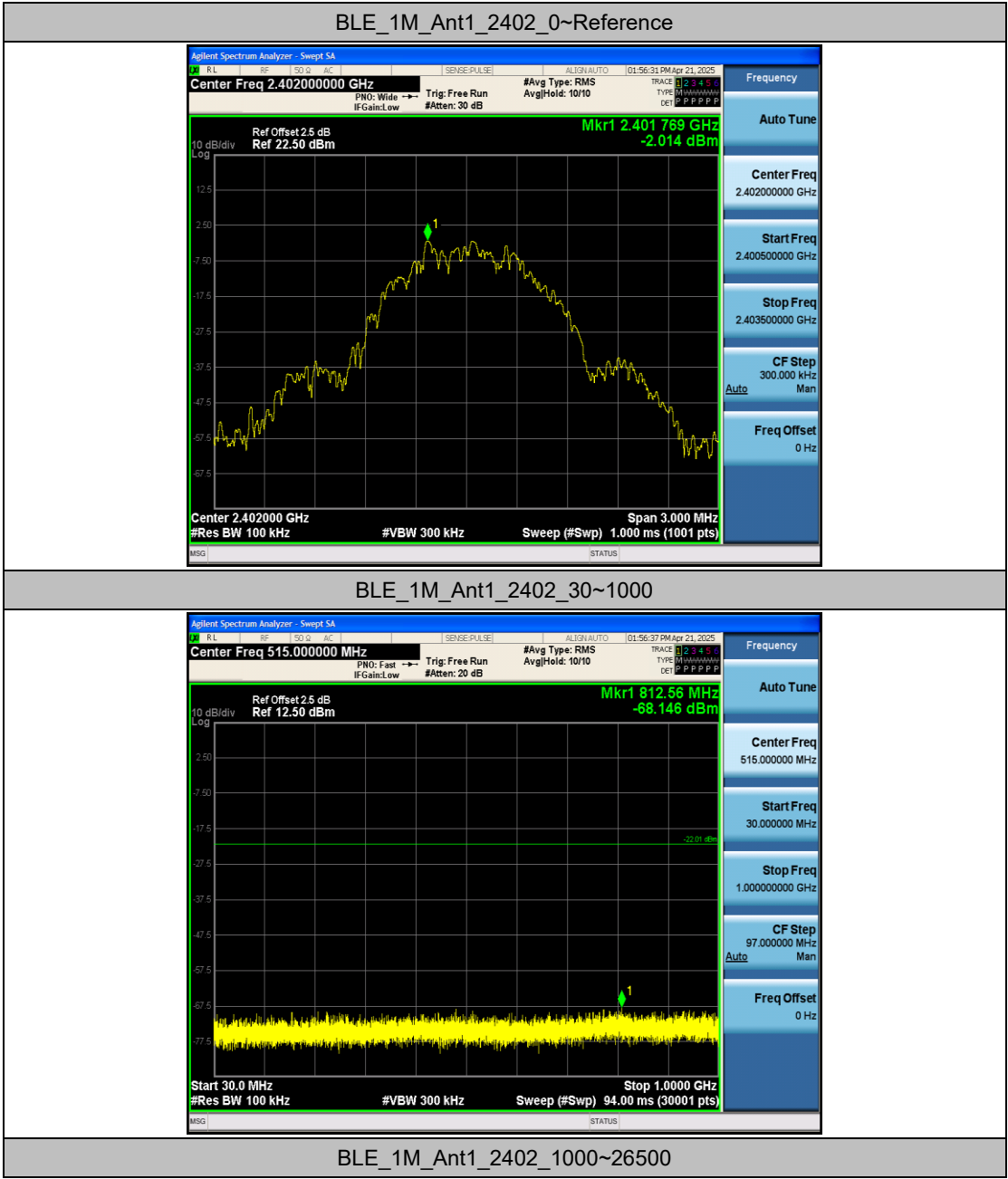


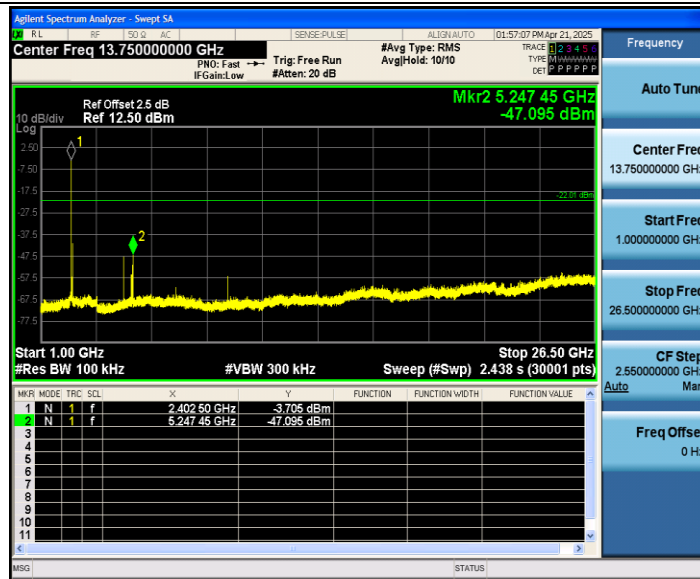
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.01	-2.01	---	PASS
			30~1000	-2.01	-68.15	≤-22.01	PASS
			1000~26500	-2.01	-47.1	≤-22.01	PASS
		2440	Reference	-3.24	-3.24	---	PASS
			30~1000	-3.24	-67.01	≤-23.24	PASS
			1000~26500	-3.24	-46.47	≤-23.24	PASS
		2480	Reference	-2.29	-2.29	---	PASS
			30~1000	-2.29	-67.8	≤-22.29	PASS
			1000~26500	-2.29	-46.89	≤-22.29	PASS

Test Graphs

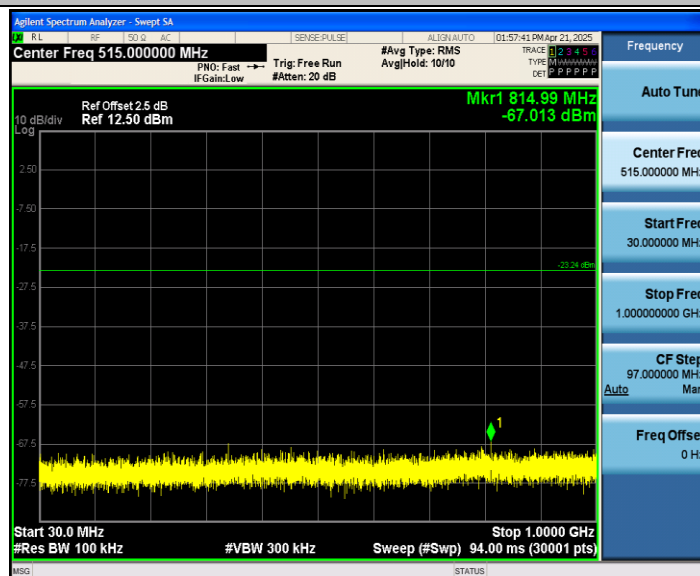




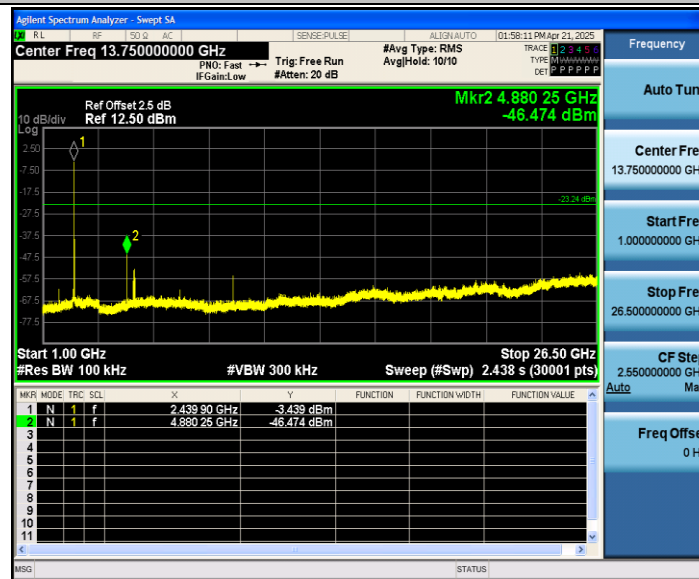
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



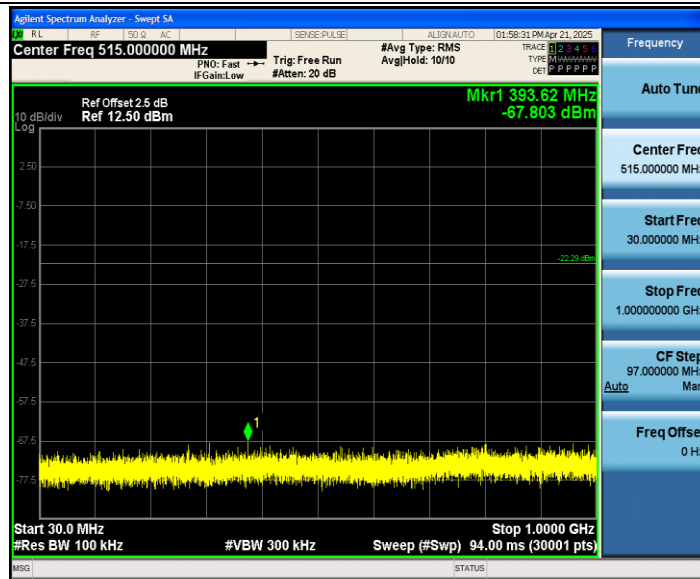
BLE_1M_Ant1_2440_1000~26500



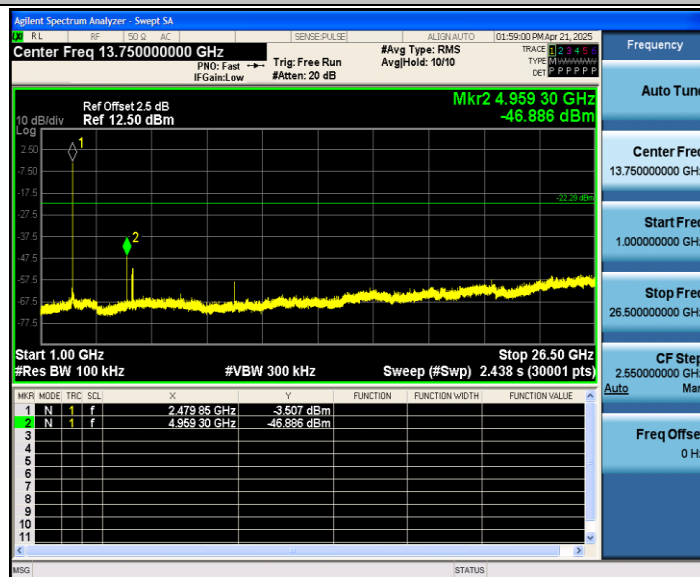
BLE_1M_Ant1_2480_0~Reference



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	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

