



Appendix Test Data for BLE (Conducted Measurement)

Product Name: WUUK Smart Sock

Trade Mark: WUUK

Test Model: BAS10

FCC ID: 2AWHY-BAS10

Environmental Conditions

Temperature:	23.5°C
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.652	2401.680	2402.332	0.5	PASS
BLE_1M	Ant1	2440	0.672	2439.668	2440.340	0.5	PASS
BLE_1M	Ant1	2480	0.660	2479.672	2480.332	0.5	PASS
BLE_2M	Ant1	2402	1.000	2401.484	2402.484	0.5	PASS
BLE_2M	Ant1	2440	1.012	2439.488	2440.500	0.5	PASS
BLE_2M	Ant1	2480	1.032	2479.476	2480.508	0.5	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs





BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS





BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS





Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.0864	2401.4346	2402.5210	---	---
BLE_1M	Ant1	2440	1.1671	2439.3540	2440.5211	---	---
BLE_1M	Ant1	2480	1.2384	2479.2919	2480.5303	---	---
BLE_2M	Ant1	2402	2.0649	2400.9802	2403.0451	---	---
BLE_2M	Ant1	2440	2.0322	2438.9969	2441.0291	---	---
BLE_2M	Ant1	2480	2.0289	2478.9923	2481.0212	---	---

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs





BLE_1M-Ant1-2480



BLE_2M-Ant1-2402





BLE_2M-Ant1-2440



BLE_2M-Ant1-2480





Appendix C: Maximum peak conducted output power

Test Result Peak

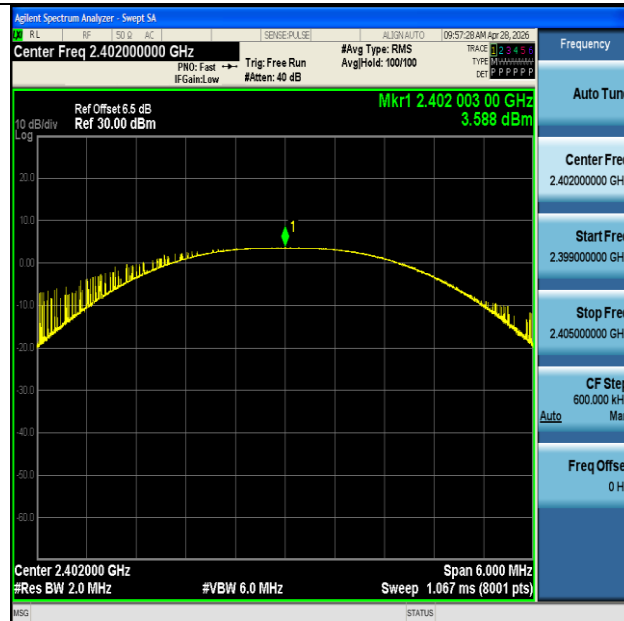
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE_1M	Ant1	2402	3.59	≤30	PASS
BLE_1M	Ant1	2440	3.95	≤30	PASS
BLE_1M	Ant1	2480	4.16	≤30	PASS
BLE_2M	Ant1	2402	3.48	≤30	PASS
BLE_2M	Ant1	2440	3.85	≤30	PASS
BLE_2M	Ant1	2480	4.18	≤30	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

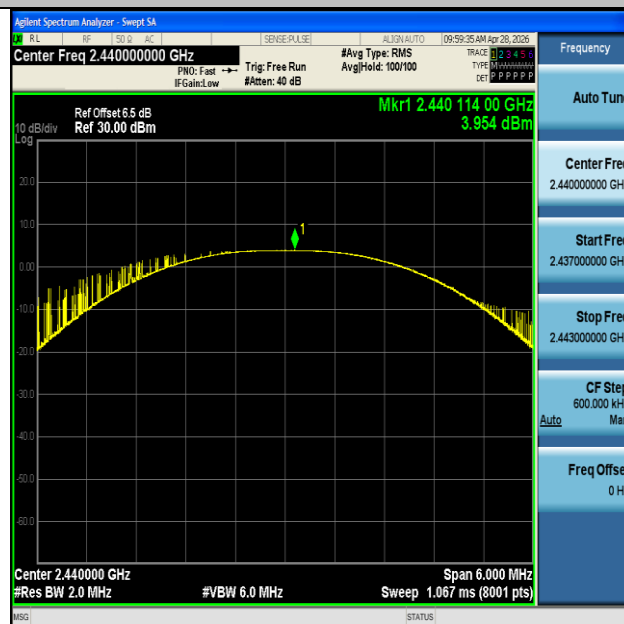




Test Graphs Peak

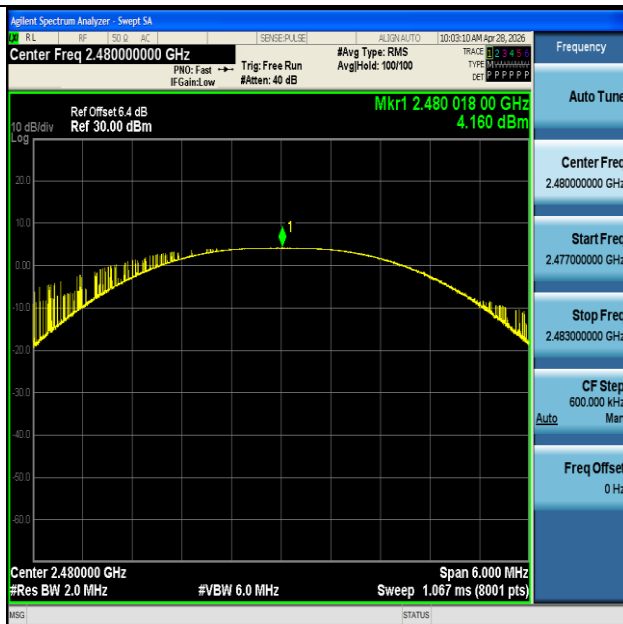


BLE_1M-Ant1-2402-PASS

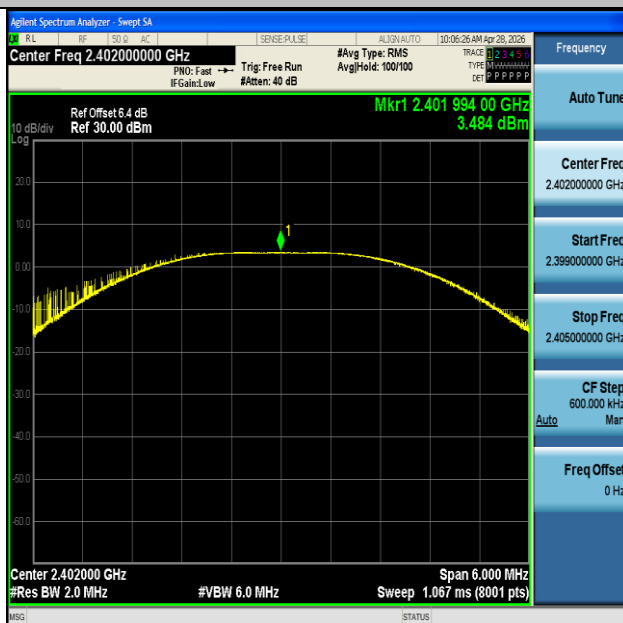


BLE_1M-Ant1-2440-PASS



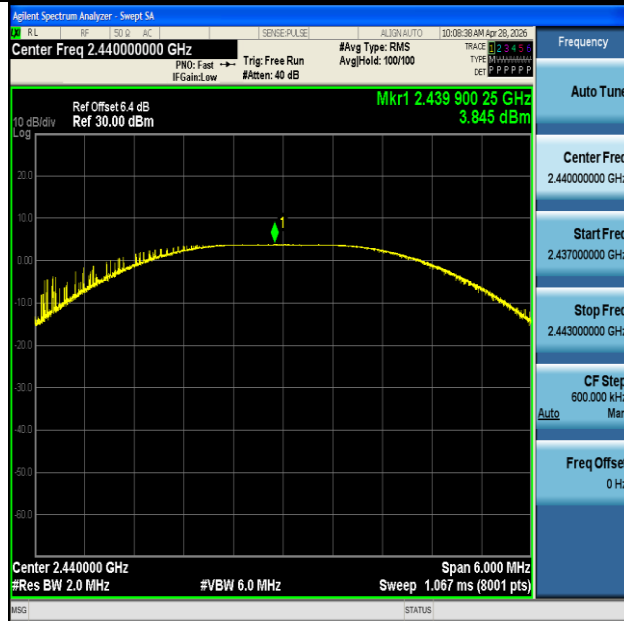


BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS





BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS





Appendix D: Maximum peak power spectral density

Test Result

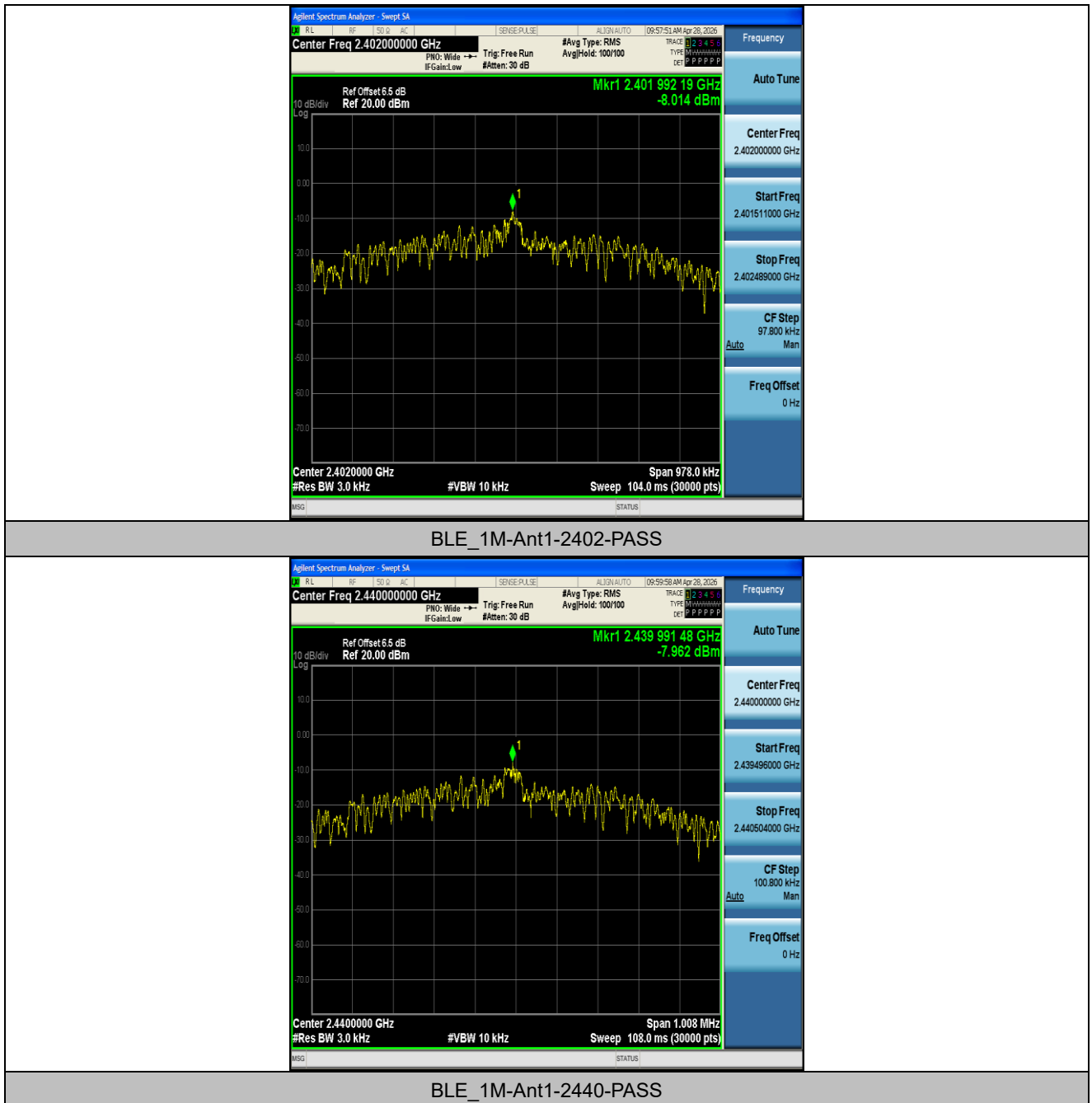
Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.01	≤8.00	PASS
BLE_1M	Ant1	2440	-7.96	≤8.00	PASS
BLE_1M	Ant1	2480	-7.69	≤8.00	PASS
BLE_2M	Ant1	2402	-8.43	≤8.00	PASS
BLE_2M	Ant1	2440	-8.37	≤8.00	PASS
BLE_2M	Ant1	2480	-8.64	≤8.00	PASS

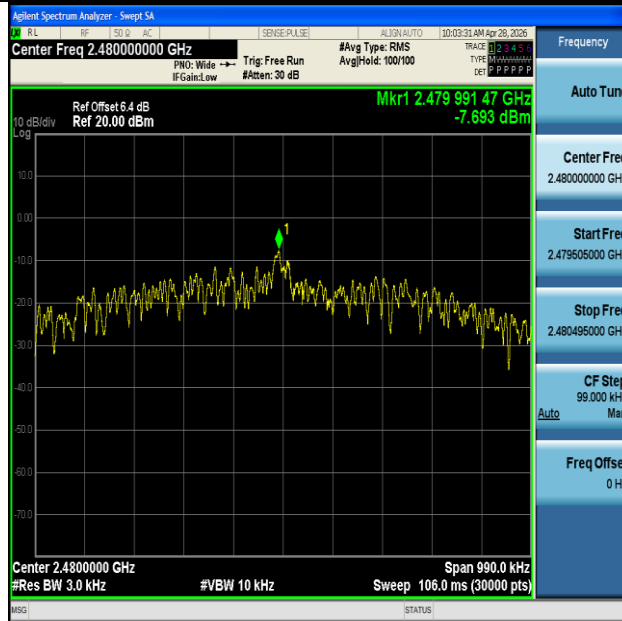
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



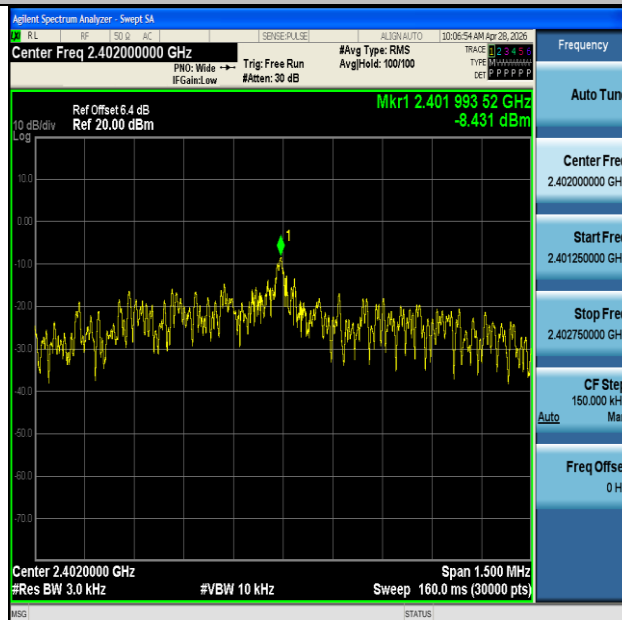


Test Graphs



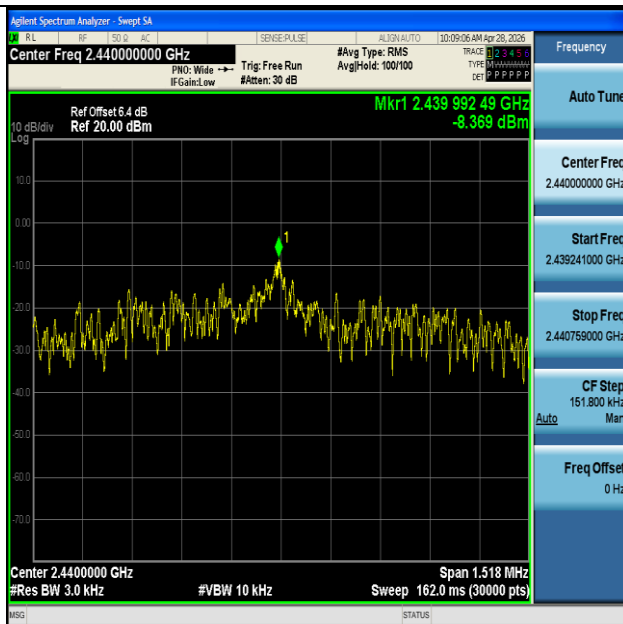


BLE_1M-Ant1-2480-PASS

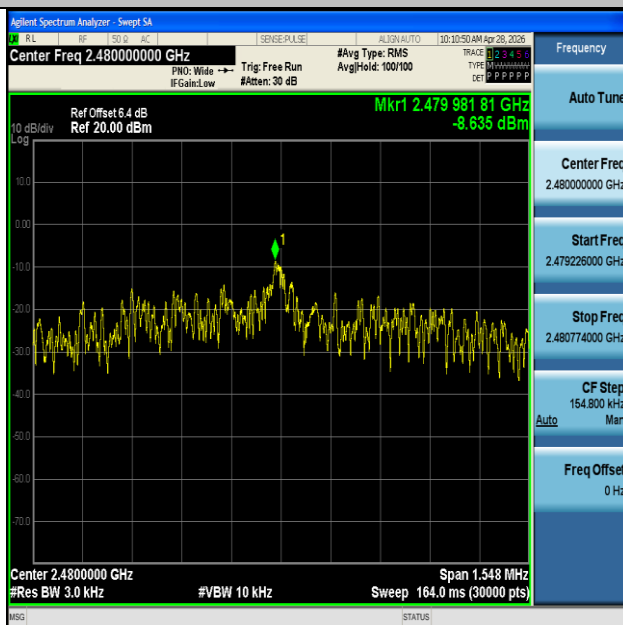


BLE_2M-Ant1-2402-PASS





BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS





Appendix E: Band edge measurements

Test Result

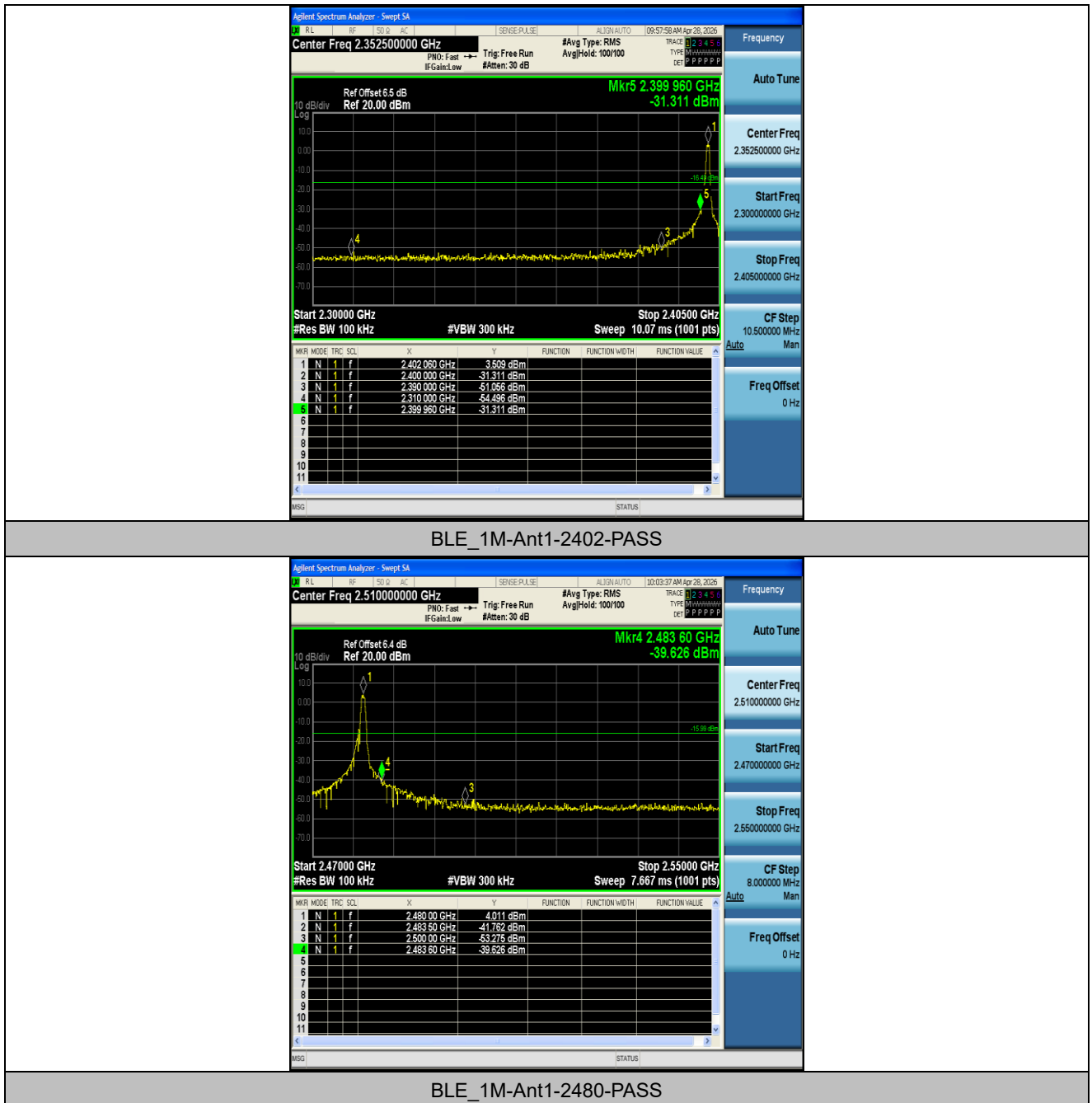
Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.51	-31.31	≤-16.49	PASS
BLE_1M	Ant1	High	2480	4.01	-39.63	≤-15.99	PASS
BLE_2M	Ant1	Low	2402	3.29	-31.77	≤-16.71	PASS
BLE_2M	Ant1	High	2480	4.13	-40.42	≤-15.87	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



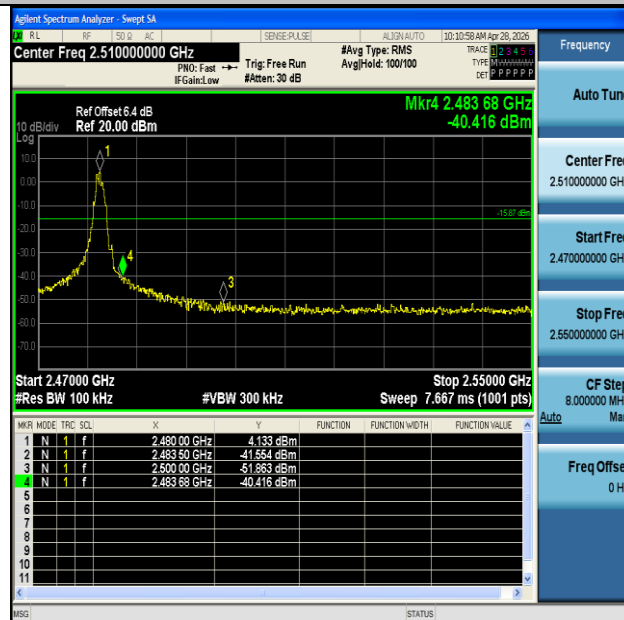


Test Graphs





BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2480-PASS





Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	3.38	3.38	---	PASS
BLE_1M	Ant1	2402	30~1000	3.38	-53.73	≤-16.62	PASS
BLE_1M	Ant1	2402	1000~26500	3.38	-40.08	≤-16.62	PASS
BLE_1M	Ant1	2440	0~Reference	3.71	3.71	---	PASS
BLE_1M	Ant1	2440	30~1000	3.71	-53.19	≤-16.29	PASS
BLE_1M	Ant1	2440	1000~26500	3.71	-39.25	≤-16.29	PASS
BLE_1M	Ant1	2480	0~Reference	4.01	4.01	---	PASS
BLE_1M	Ant1	2480	30~1000	4.01	-53.41	≤-15.99	PASS
BLE_1M	Ant1	2480	1000~26500	4.01	-39.07	≤-15.99	PASS
BLE_2M	Ant1	2402	0~Reference	3.29	3.29	---	PASS
BLE_2M	Ant1	2402	30~1000	3.29	-53.81	≤-16.71	PASS
BLE_2M	Ant1	2402	1000~26500	3.29	-40.24	≤-16.71	PASS
BLE_2M	Ant1	2440	0~Reference	3.61	3.61	---	PASS
BLE_2M	Ant1	2440	30~1000	3.61	-53.81	≤-16.39	PASS
BLE_2M	Ant1	2440	1000~26500	3.61	-39.45	≤-16.39	PASS
BLE_2M	Ant1	2480	0~Reference	4.03	4.03	---	PASS
BLE_2M	Ant1	2480	30~1000	4.03	-54.05	≤-15.97	PASS
BLE_2M	Ant1	2480	1000~26500	4.03	-39.73	≤-15.97	PASS

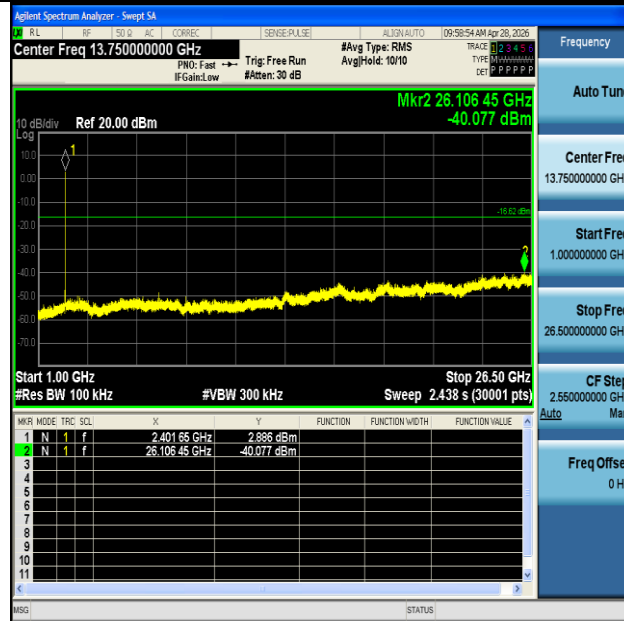
Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.





Test Graphs



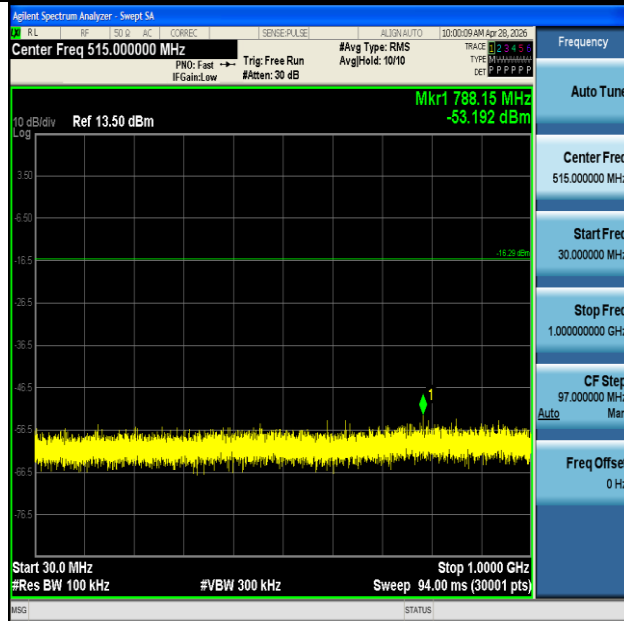


BLE_1M-Ant1-2402-1000~26500-PASS

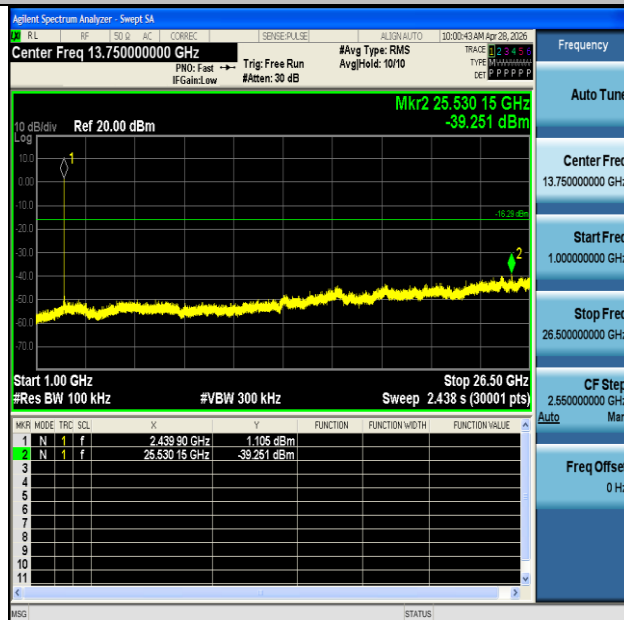


BLE_1M-Ant1-2440-0~Reference-PASS





BLE_1M-Ant1-2440-30~1000-PASS

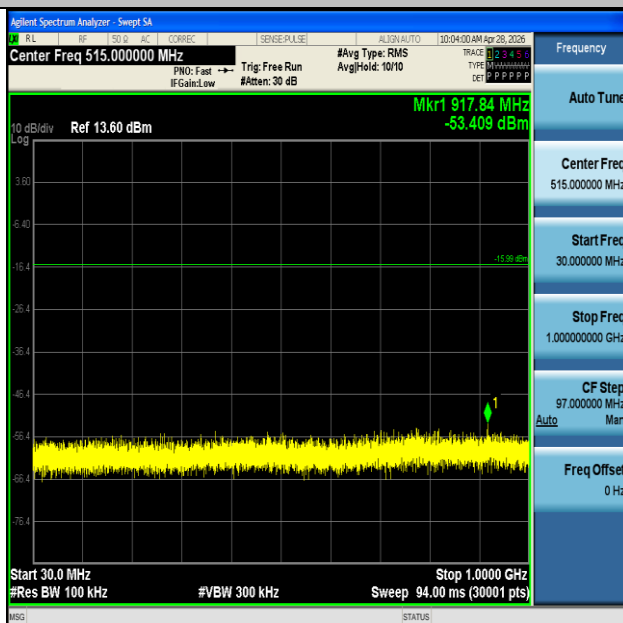


BLE_1M-Ant1-2440-1000~26500-PASS



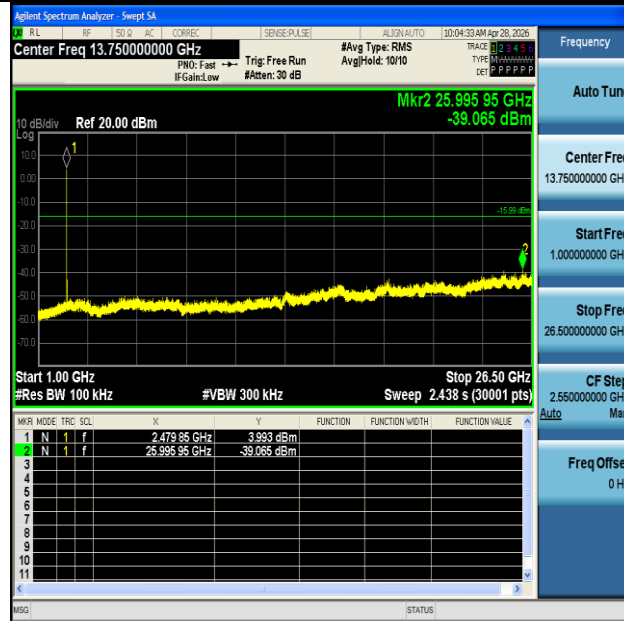


BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



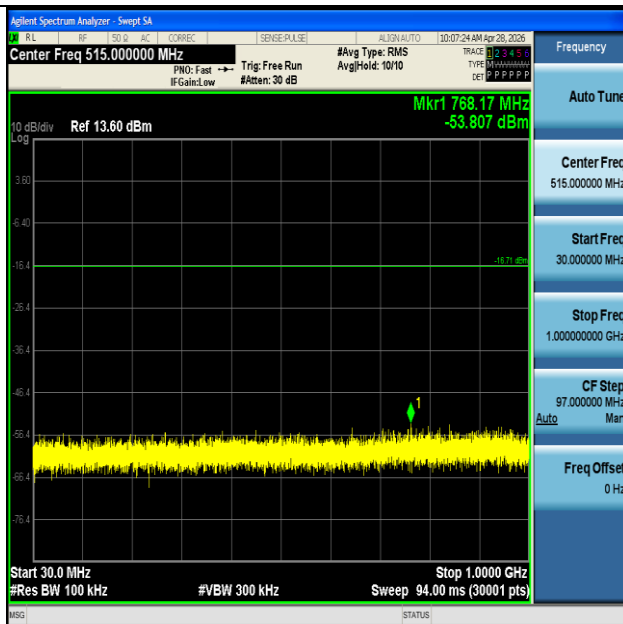


BLE_1M-Ant1-2480-1000~26500-PASS

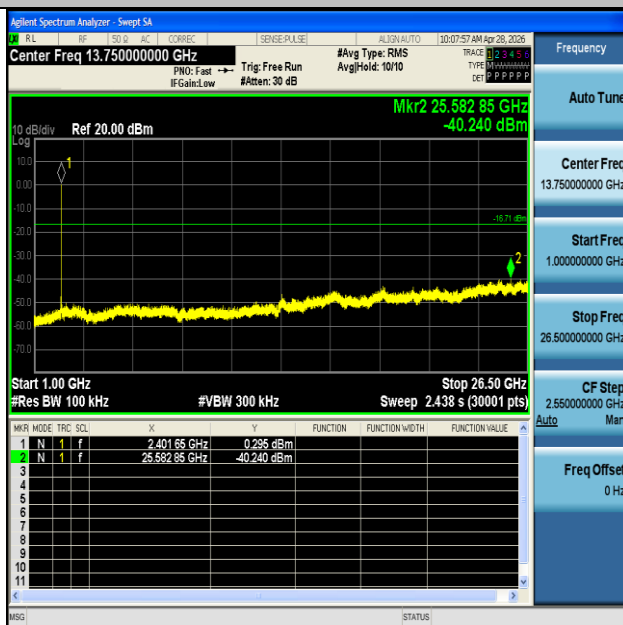


BLE_2M-Ant1-2402-0~Reference-PASS





BLE_2M-Ant1-2402-30~1000-PASS

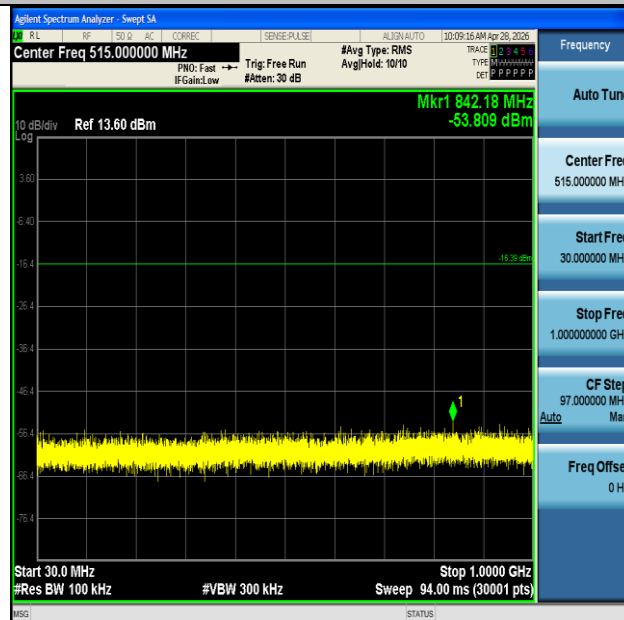


BLE_2M-Ant1-2402-1000~26500-PASS



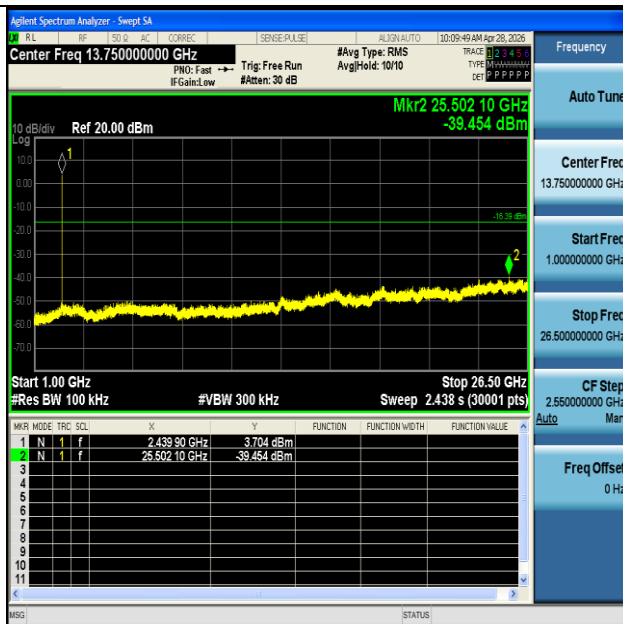


BLE_2M-Ant1-2440-0~Reference-PASS

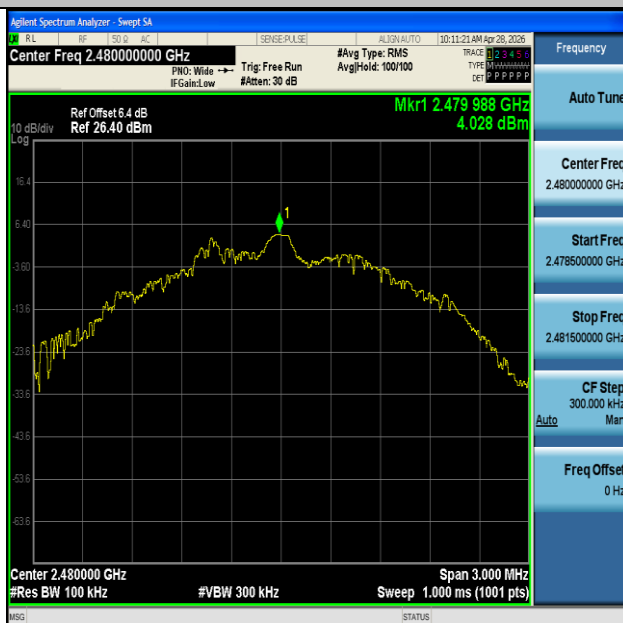


BLE_2M-Ant1-2440-30~1000-PASS



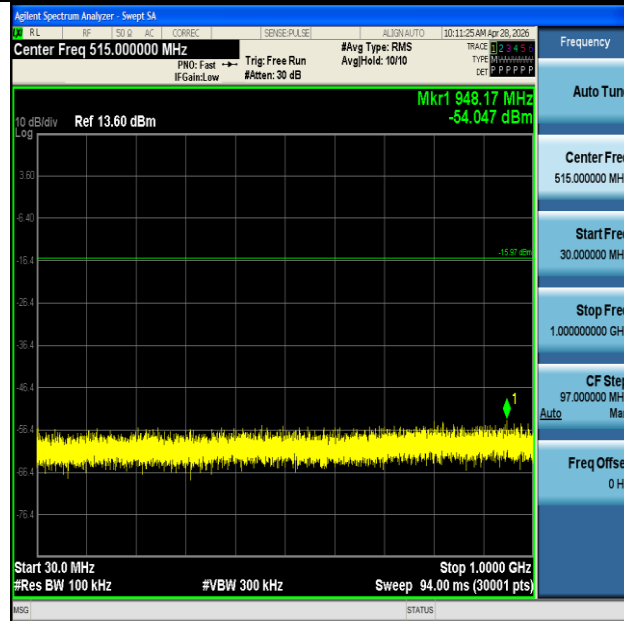


BLE_2M-Ant1-2440-1000~26500-PASS

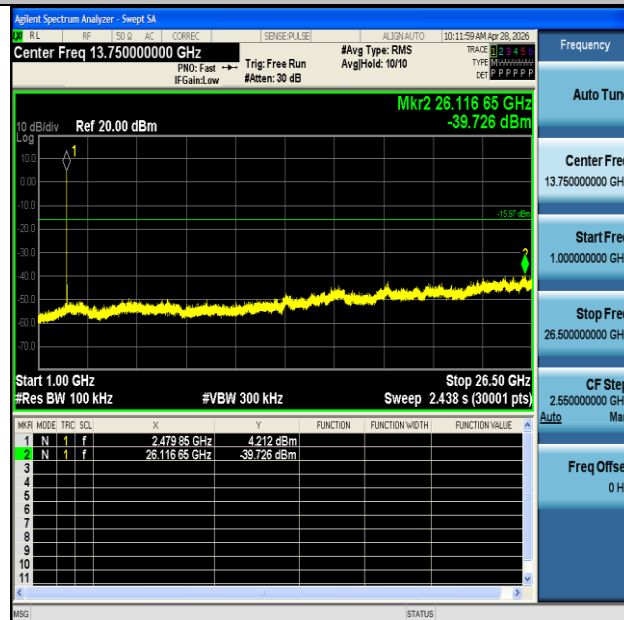


BLE_2M-Ant1-2480-0~Reference-PASS





BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS

