

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Bluetooth Body fat scale

Trade Mark: TAYLOR

Test Model: 5324506KHL

FCC ID: 2AJ5E-5324506KHL

Environmental Conditions

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

Appendix A: DTS Bandwidth

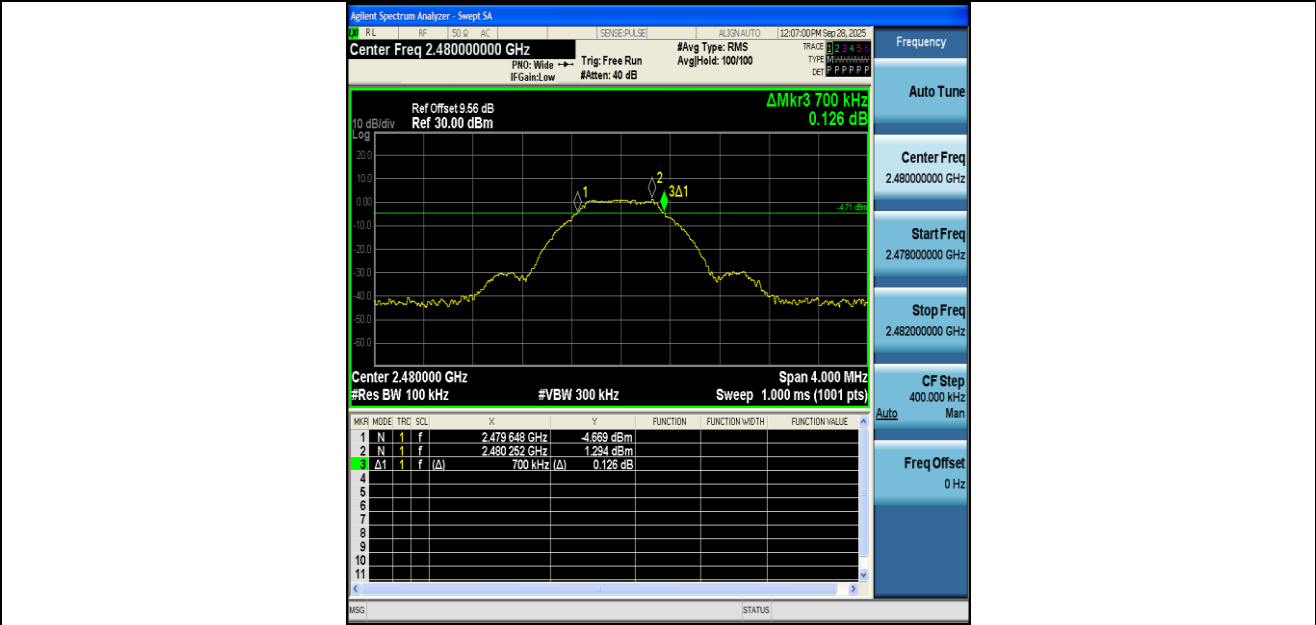
Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.688	2401.660	2402.348	0.5	PASS
BLE_1M	Ant1	2440	0.700	2439.652	2440.352	0.5	PASS
BLE_1M	Ant1	2480	0.700	2479.648	2480.348	0.5	PASS
BLE_2M	Ant1	2402	1.168	2401.412	2402.580	0.5	PASS
BLE_2M	Ant1	2440	1.172	2439.428	2440.600	0.5	PASS
BLE_2M	Ant1	2480	1.188	2479.404	2480.592	0.5	PASS

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

Test Graphs

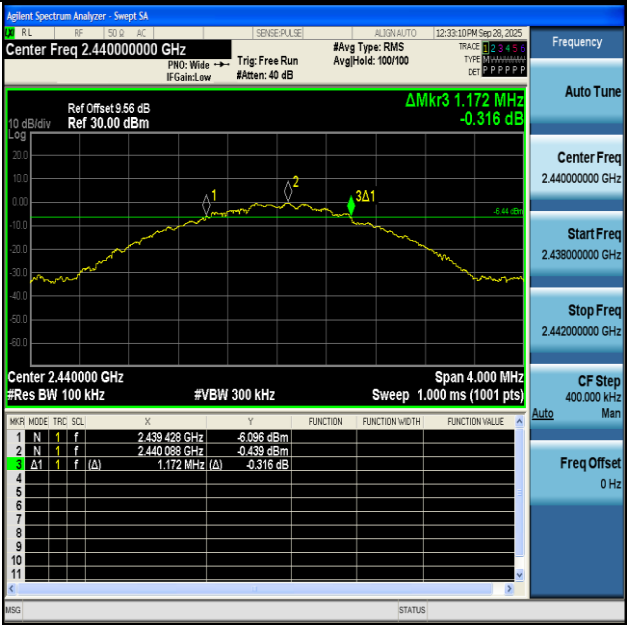




BLE_1M-Ant1-2480-PASS



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	1.0242	2401.4855	2402.5097	---	---
BLE_1M	Ant1	2440	1.0259	2439.4832	2440.5091	---	---
BLE_1M	Ant1	2480	1.0260	2479.4865	2480.5125	---	---
BLE_2M	Ant1	2402	2.1942	2400.8967	2403.0909	---	---
BLE_2M	Ant1	2440	2.1875	2438.9031	2441.0906	---	---
BLE_2M	Ant1	2480	2.1975	2478.9047	2481.1022	---	---

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

Test Graphs







Appendix C: Maximum peak conducted output power

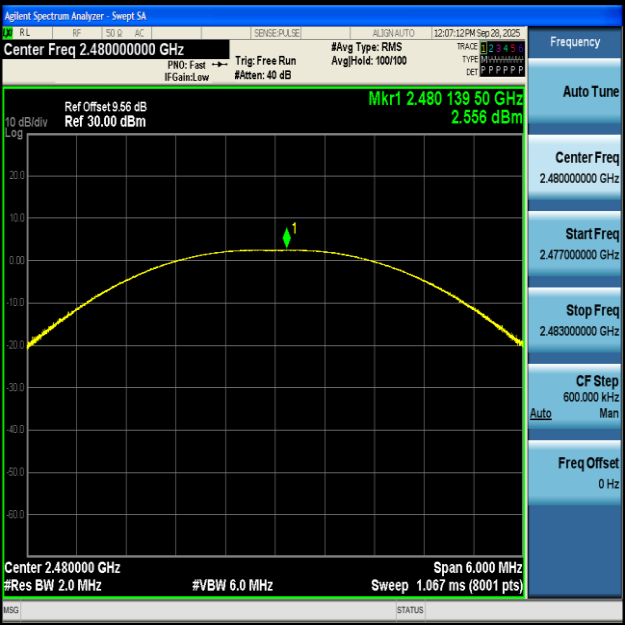
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE_1M	Ant1	2402	1.91	≤30	PASS
BLE_1M	Ant1	2440	2.45	≤30	PASS
BLE_1M	Ant1	2480	2.56	≤30	PASS
BLE_2M	Ant1	2402	2.04	≤30	PASS
BLE_2M	Ant1	2440	2.53	≤30	PASS
BLE_2M	Ant1	2480	2.45	≤30	PASS

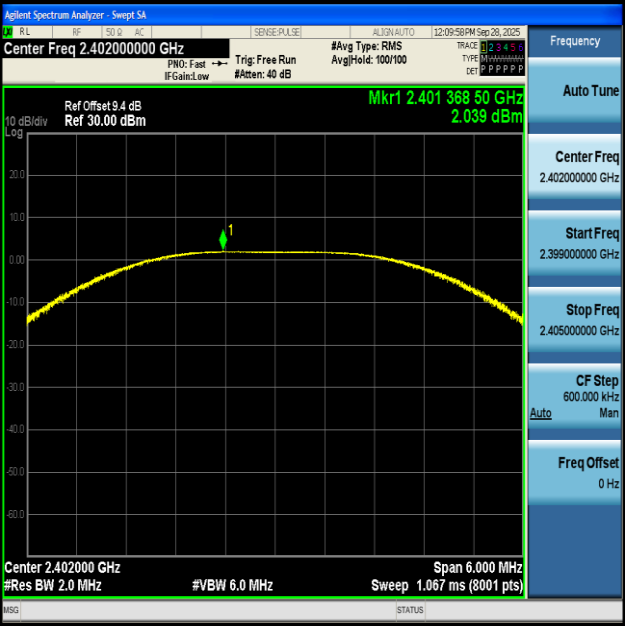
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs Peak

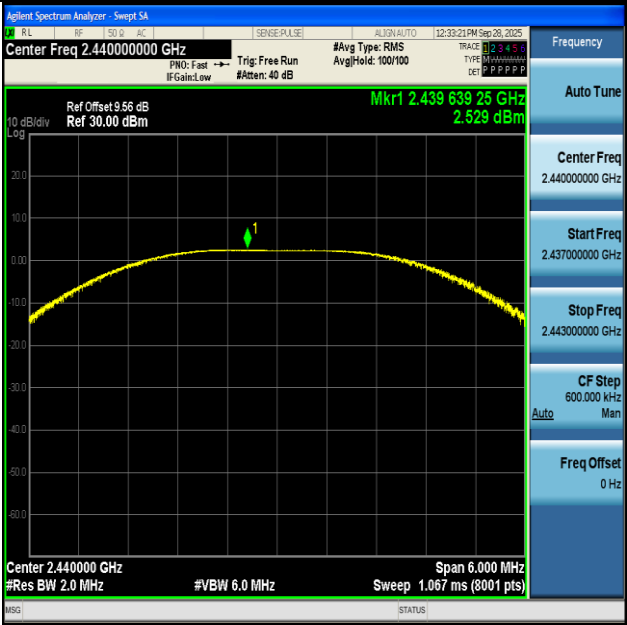




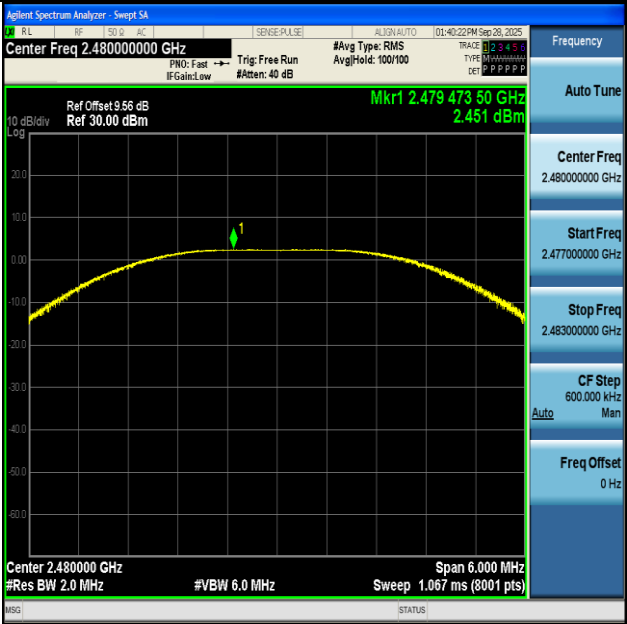
BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

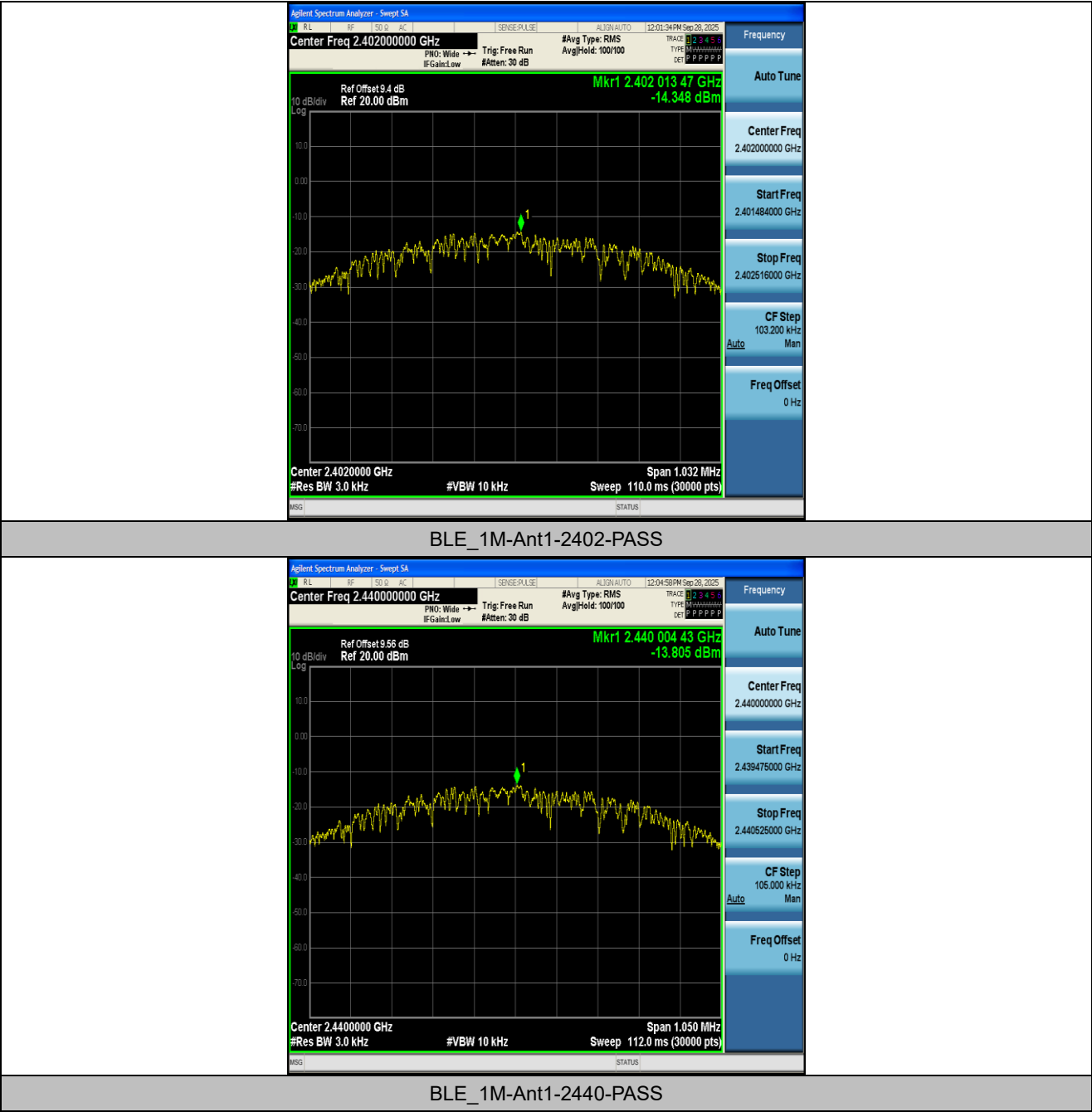
Appendix D: Maximum peak power spectral density

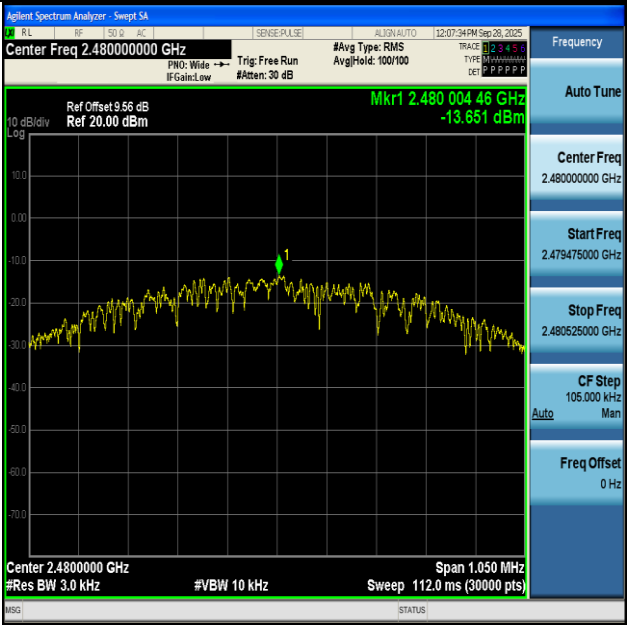
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.35	≤8.00	PASS
BLE_1M	Ant1	2440	-13.81	≤8.00	PASS
BLE_1M	Ant1	2480	-13.65	≤8.00	PASS
BLE_2M	Ant1	2402	-13.85	≤8.00	PASS
BLE_2M	Ant1	2440	-13.71	≤8.00	PASS
BLE_2M	Ant1	2480	-13.57	≤8.00	PASS

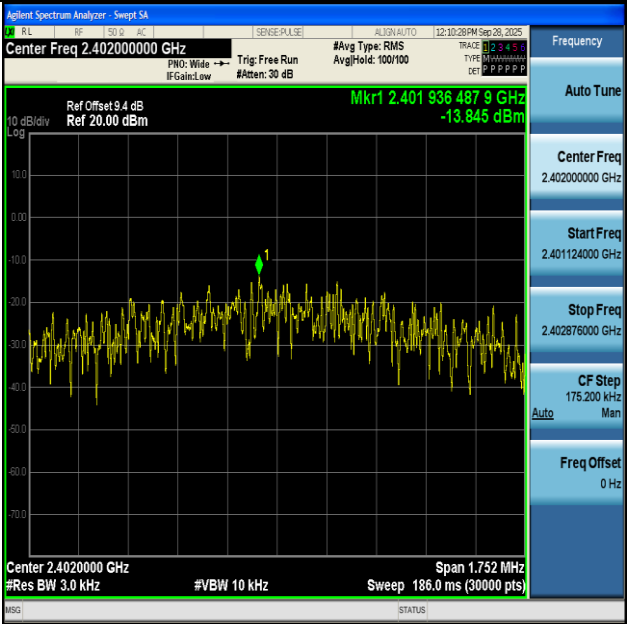
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

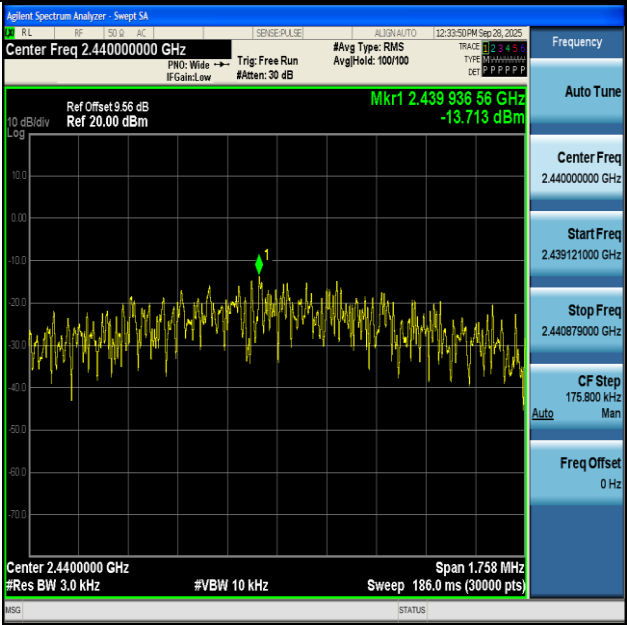




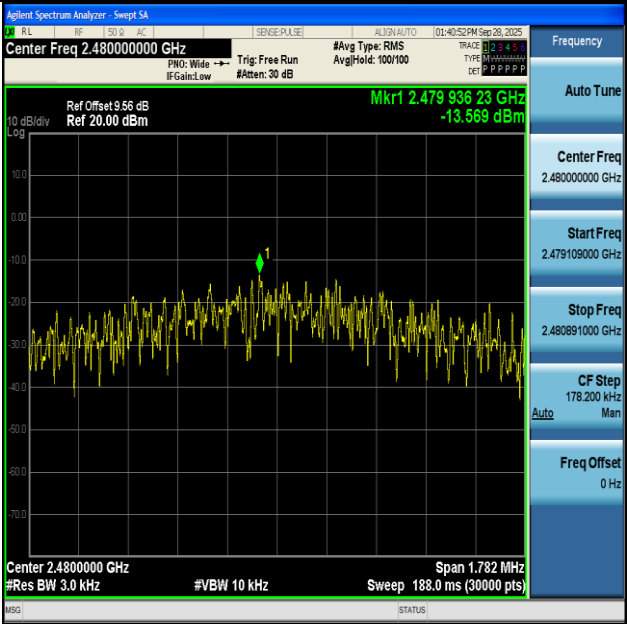
BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

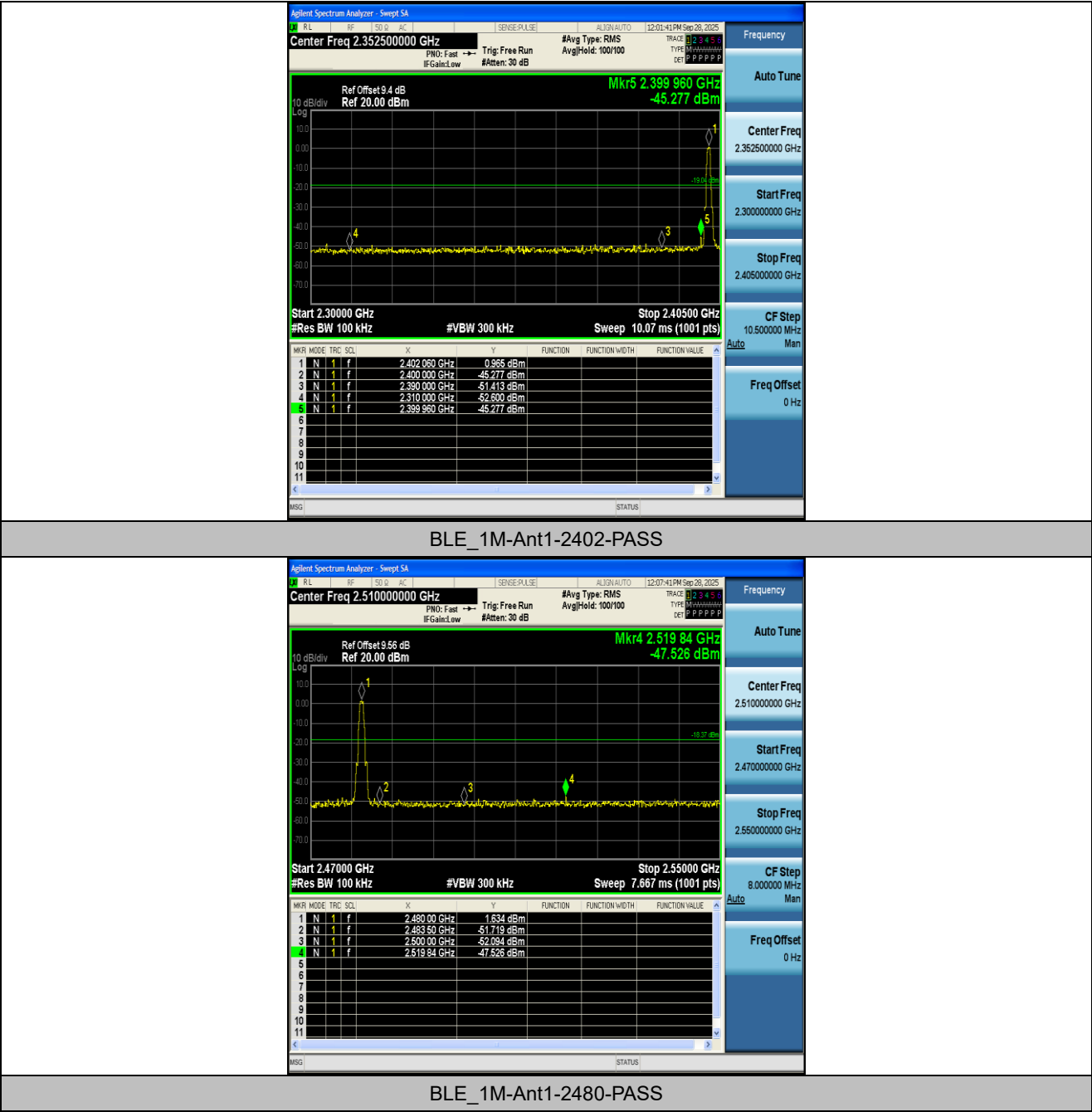
Appendix E: Band edge measurements

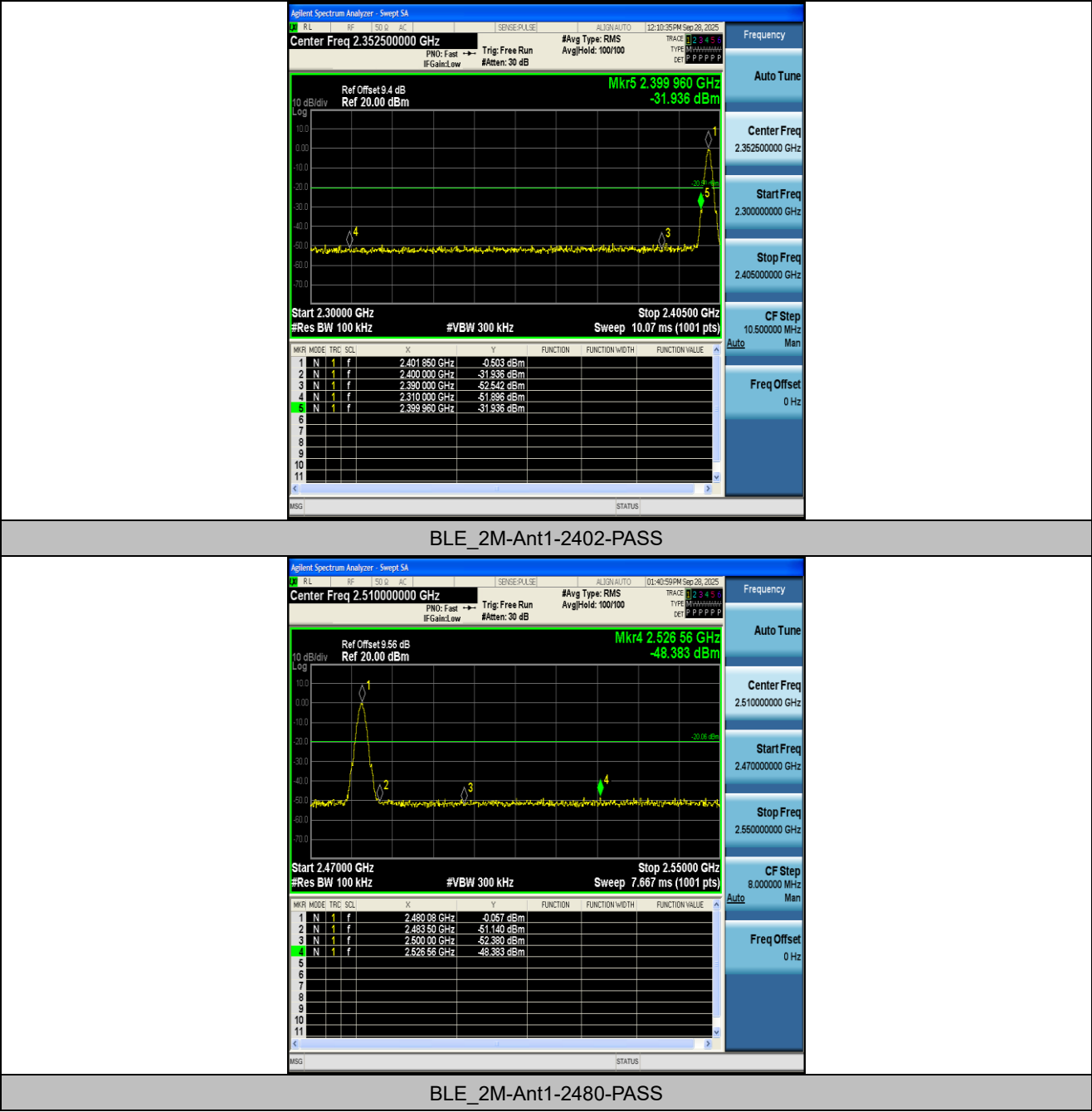
Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.97	-45.28	≤-19.04	PASS
BLE_1M	Ant1	High	2480	1.63	-47.53	≤-18.37	PASS
BLE_2M	Ant1	Low	2402	-0.50	-31.94	≤-20.5	PASS
BLE_2M	Ant1	High	2480	-0.06	-48.38	≤-20.06	PASS

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

Test Graphs





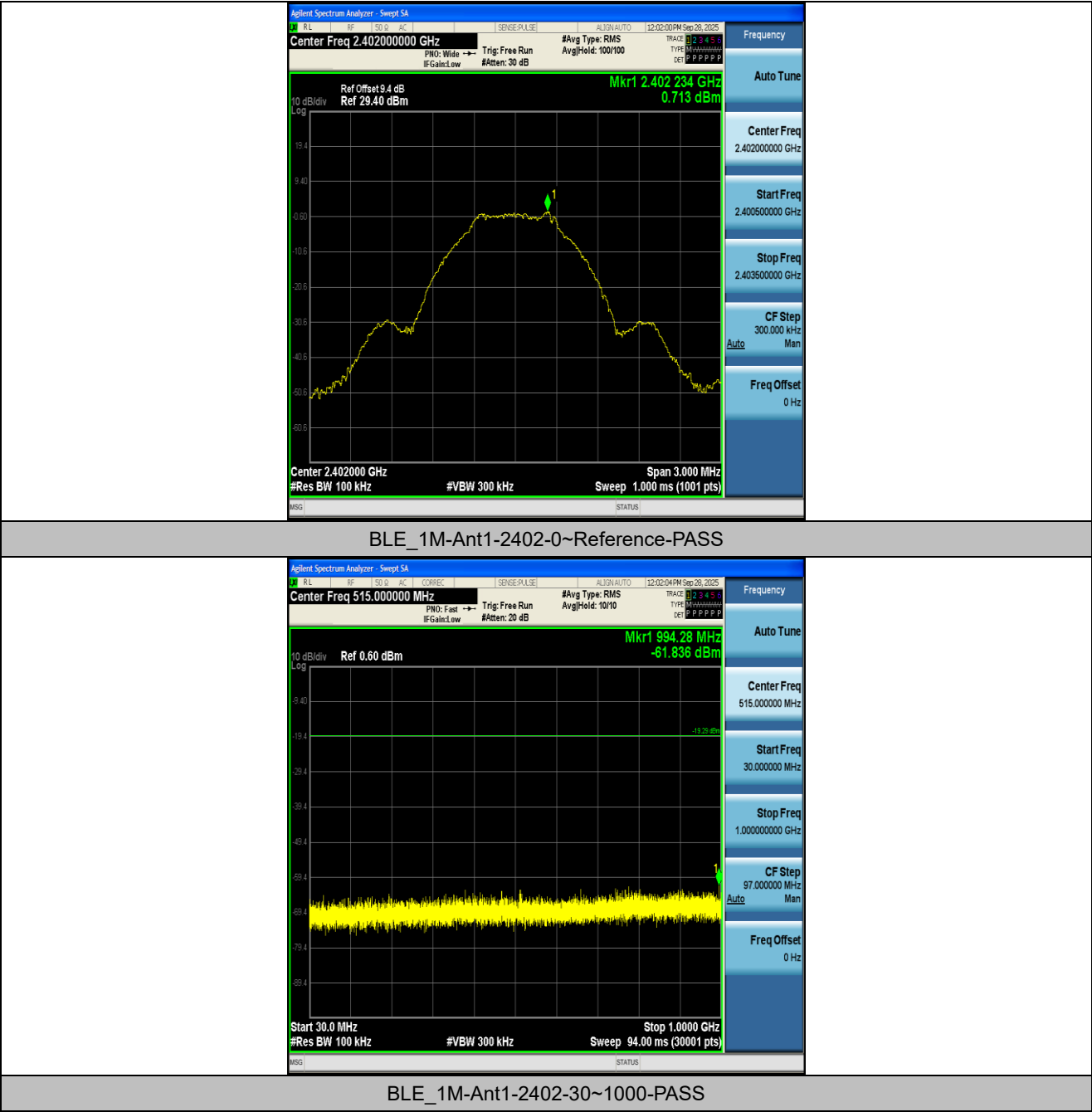
Appendix F: Conducted Spurious Emission

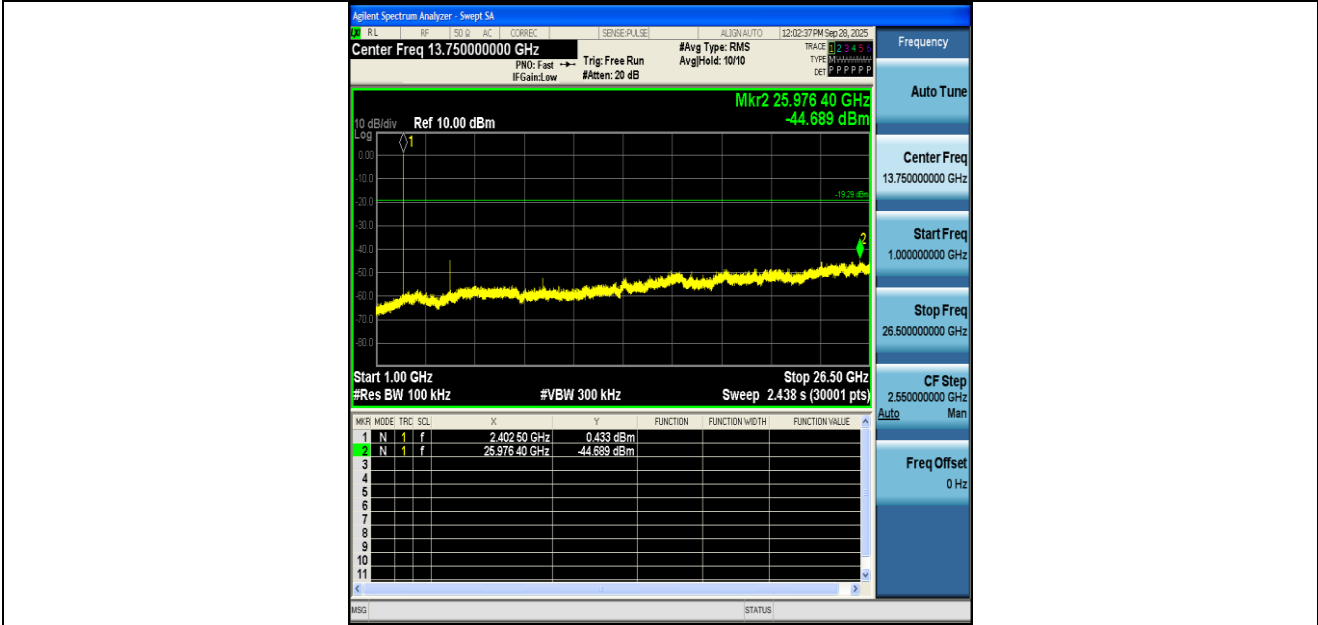
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.71	0.71	---	PASS
BLE_1M	Ant1	2402	30~1000	0.71	-61.84	≤-19.29	PASS
BLE_1M	Ant1	2402	1000~26500	0.71	-44.69	≤-19.29	PASS
BLE_1M	Ant1	2440	0~Reference	1.26	1.26	---	PASS
BLE_1M	Ant1	2440	30~1000	1.26	-62.58	≤-18.74	PASS
BLE_1M	Ant1	2440	1000~26500	1.26	-44.75	≤-18.74	PASS
BLE_1M	Ant1	2480	0~Reference	1.45	1.45	---	PASS
BLE_1M	Ant1	2480	30~1000	1.45	-62.59	≤-18.55	PASS
BLE_1M	Ant1	2480	1000~26500	1.45	-44.91	≤-18.55	PASS
BLE_2M	Ant1	2402	0~Reference	-1.01	-1.01	---	PASS
BLE_2M	Ant1	2402	30~1000	-1.01	-62.03	≤-21.01	PASS
BLE_2M	Ant1	2402	1000~26500	-1.01	-44.39	≤-21.01	PASS
BLE_2M	Ant1	2440	0~Reference	-0.46	-0.46	---	PASS
BLE_2M	Ant1	2440	30~1000	-0.46	-62.06	≤-20.46	PASS
BLE_2M	Ant1	2440	1000~26500	-0.46	-44.53	≤-20.46	PASS
BLE_2M	Ant1	2480	0~Reference	-0.46	-0.46	---	PASS
BLE_2M	Ant1	2480	30~1000	-0.46	-61.37	≤-20.46	PASS
BLE_2M	Ant1	2480	1000~26500	-0.46	-44.13	≤-20.46	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

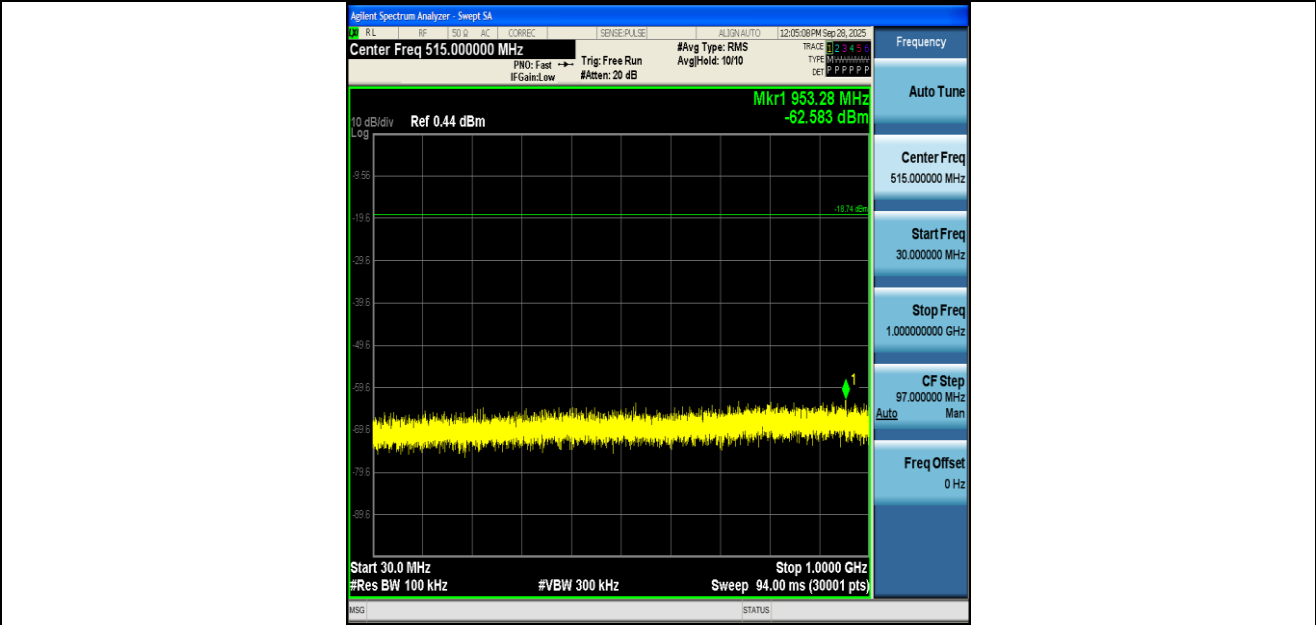




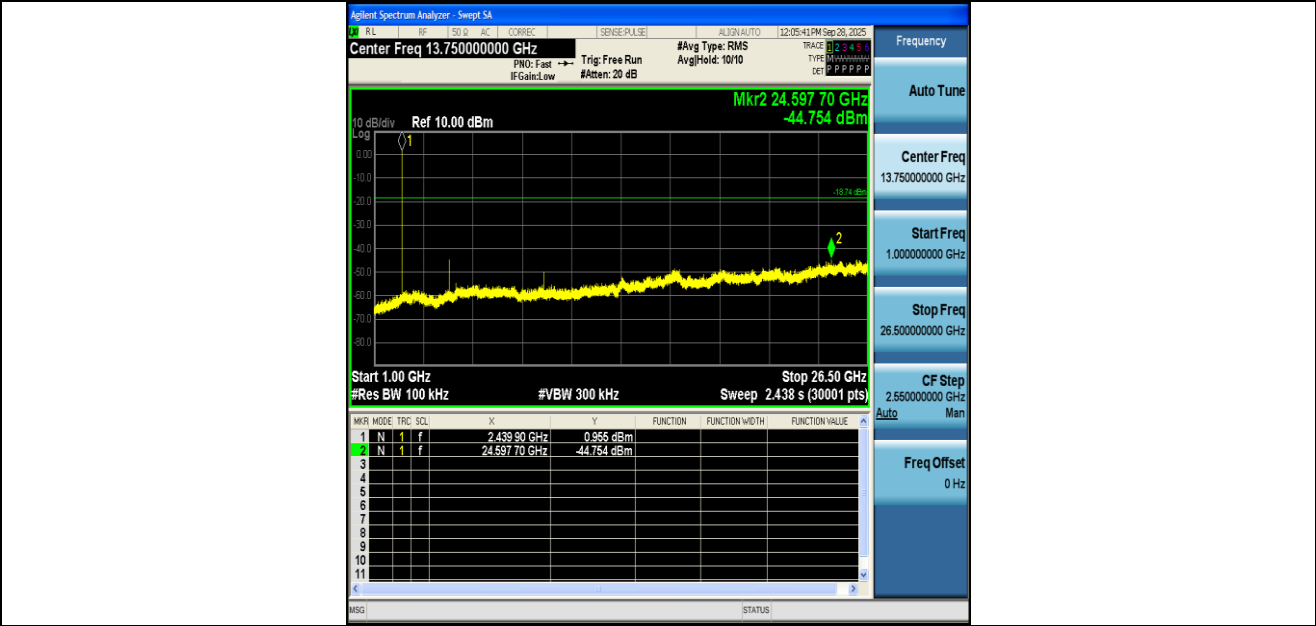
BLE_1M-Ant1-2402-1000~26500-PASS



BLE_1M-Ant1-2440-0~Reference-PASS

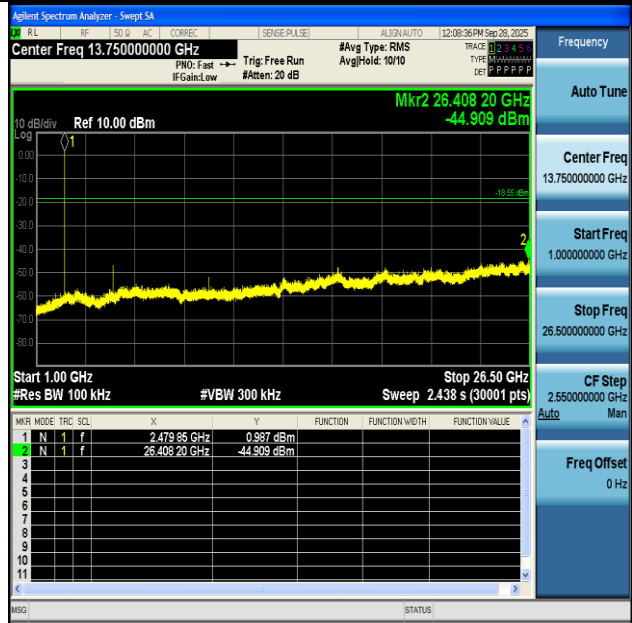


BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

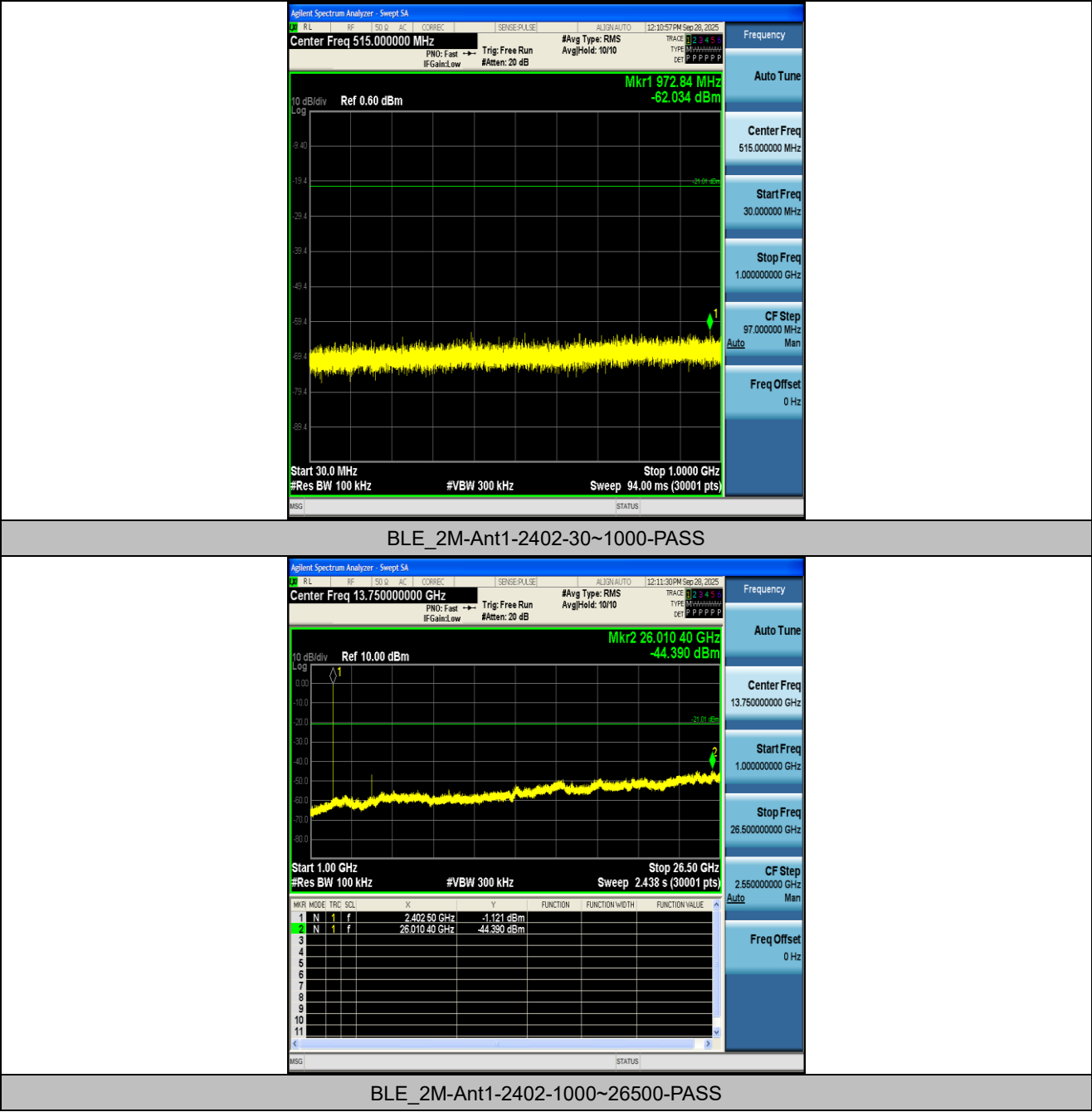


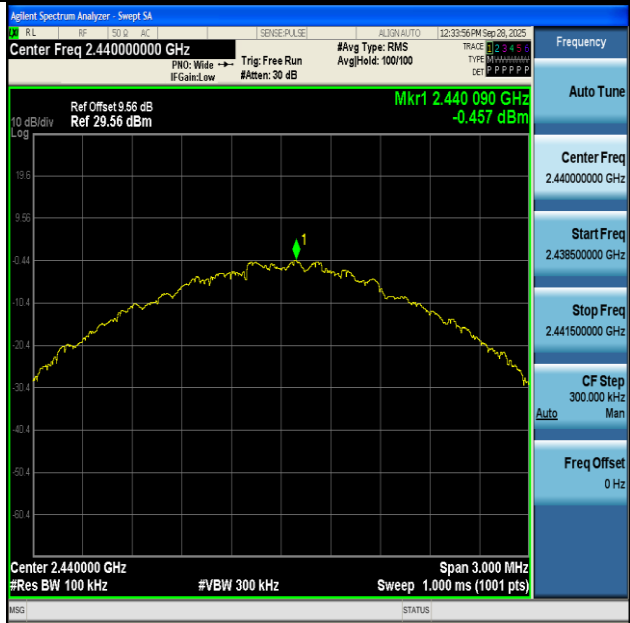


BLE_1M-Ant1-2480-1000~26500-PASS

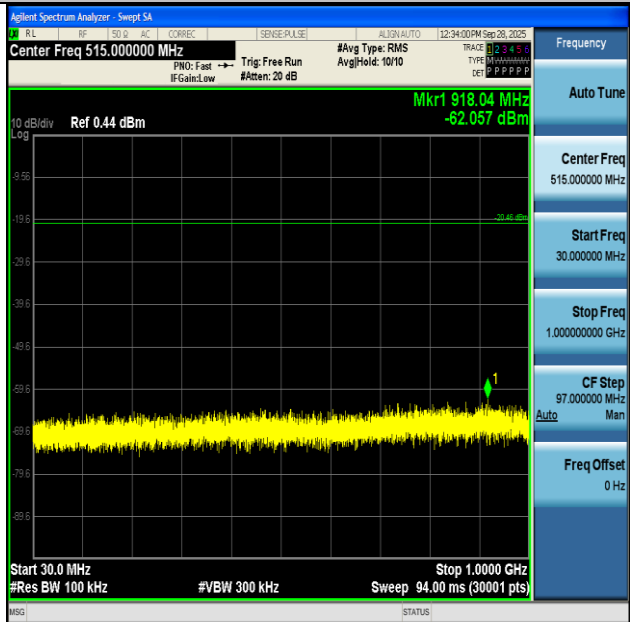


BLE_2M-Ant1-2402-0~Reference-PASS



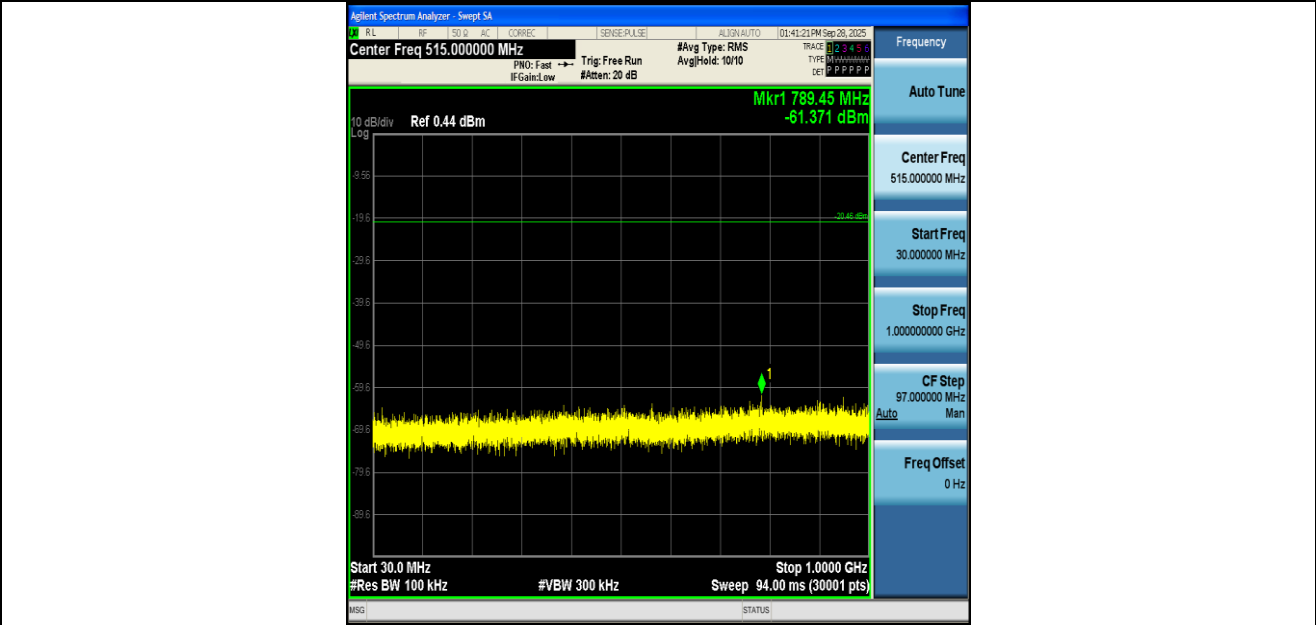


BLE_2M-Ant1-2440-0~Reference-PASS

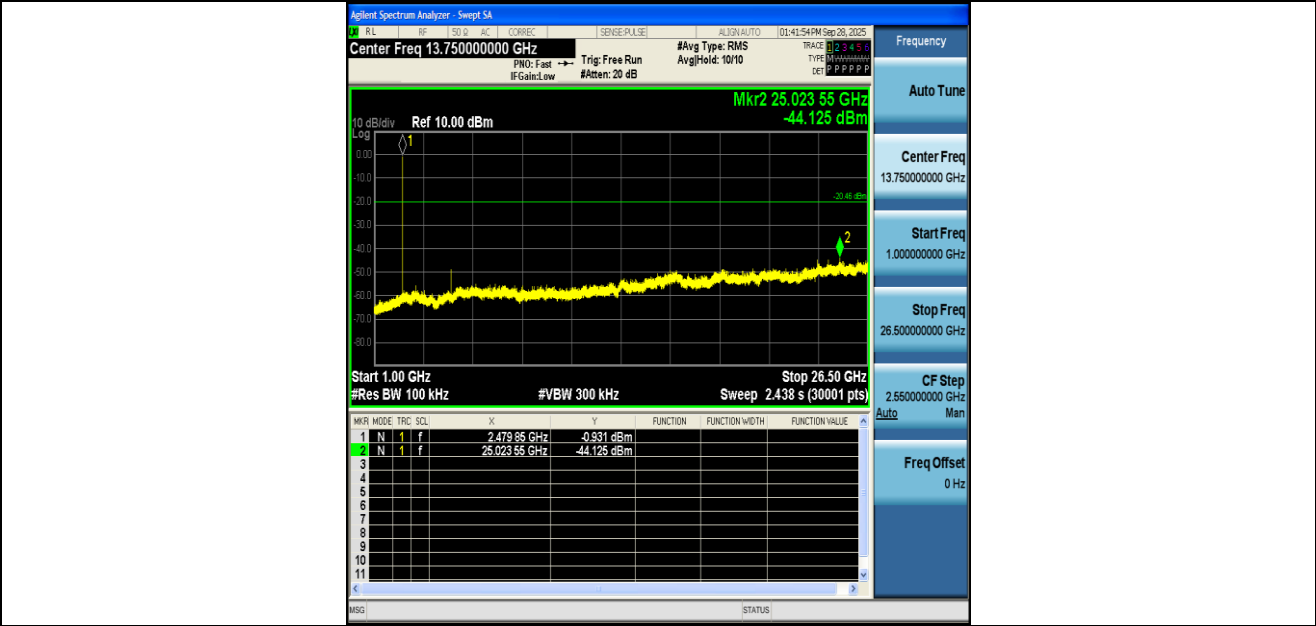


BLE_2M-Ant1-2440-30~1000-PASS





BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS

Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
BLE_1M	Ant1	2402	19.00	19.00	100.00	0.00
BLE_1M	Ant1	2440	19.00	19.00	100.00	0.00
BLE_1M	Ant1	2480	19.00	19.00	100.00	0.00
BLE_2M	Ant1	2402	19.00	19.00	100.00	0.00
BLE_2M	Ant1	2440	19.00	19.00	100.00	0.00
BLE_2M	Ant1	2480	19.00	19.00	100.00	0.00

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

Test Graphs

