

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Bluetooth weight scale

Trade Mark: TAYLOR

Test Model: 5330887

FCC ID: 2AJ5E-5330887

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

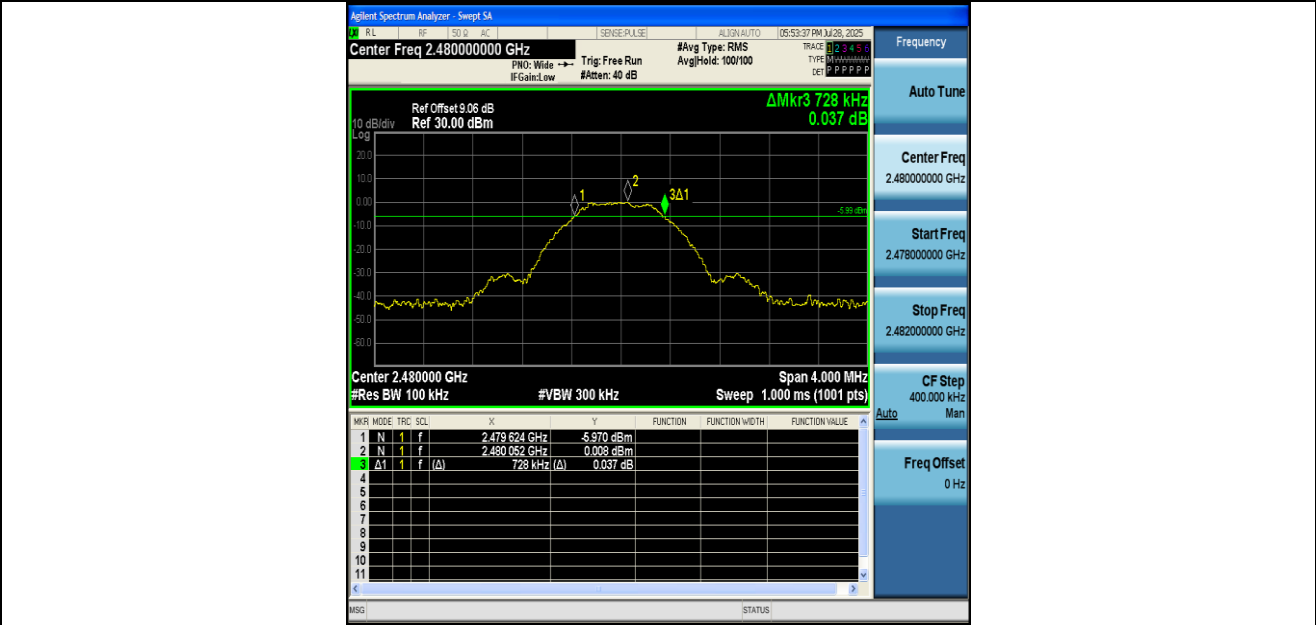
Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.704	2401.628	2402.332	0.5	PASS
BLE_1M	Ant1	2440	0.728	2439.620	2440.348	0.5	PASS
BLE_1M	Ant1	2480	0.728	2479.624	2480.352	0.5	PASS
BLE_2M	Ant1	2402	0.680	2401.640	2402.320	0.5	PASS
BLE_2M	Ant1	2440	0.680	2439.644	2440.324	0.5	PASS
BLE_2M	Ant1	2480	0.696	2479.640	2480.336	0.5	PASS

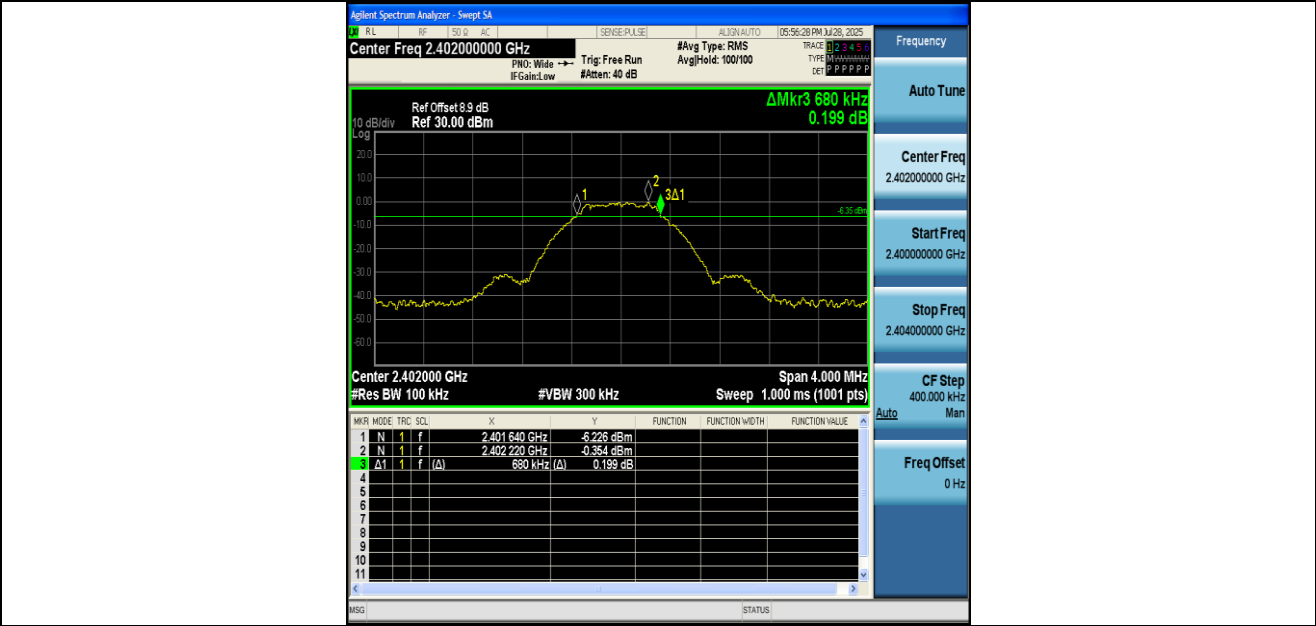
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs





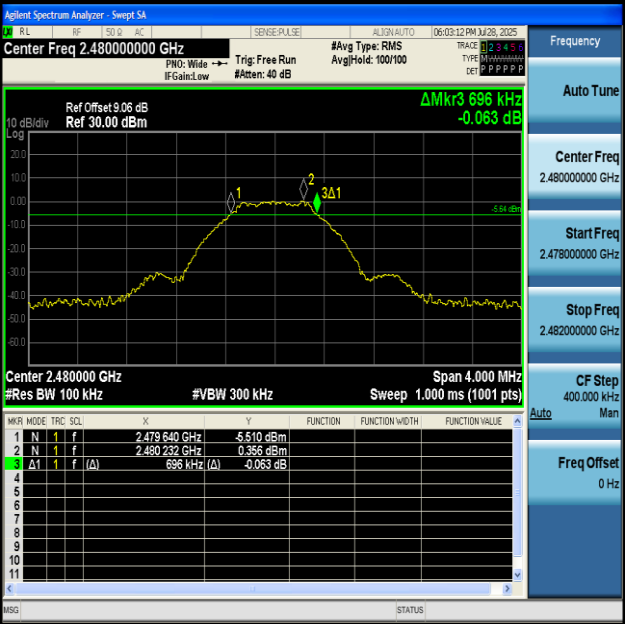
BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

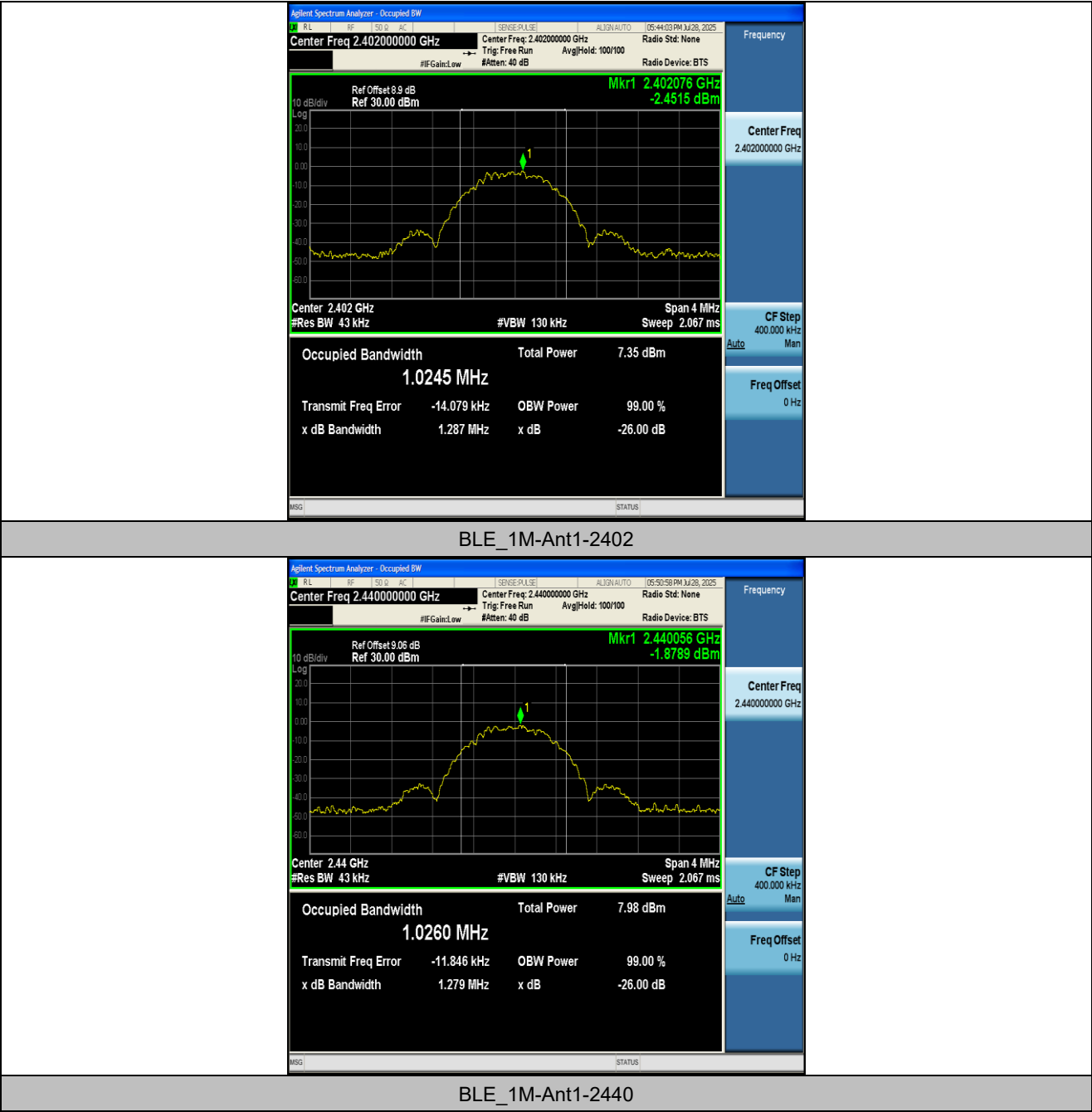
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.0245	2401.4737	2402.4982	---	---
BLE_1M	Ant1	2440	1.0260	2439.4752	2440.5012	---	---
BLE_1M	Ant1	2480	1.0267	2479.4756	2480.5023	---	---
BLE_2M	Ant1	2402	1.0245	2401.4752	2402.4997	---	---
BLE_2M	Ant1	2440	1.0213	2439.4791	2440.5004	---	---
BLE_2M	Ant1	2480	1.0261	2479.4753	2480.5014	---	---

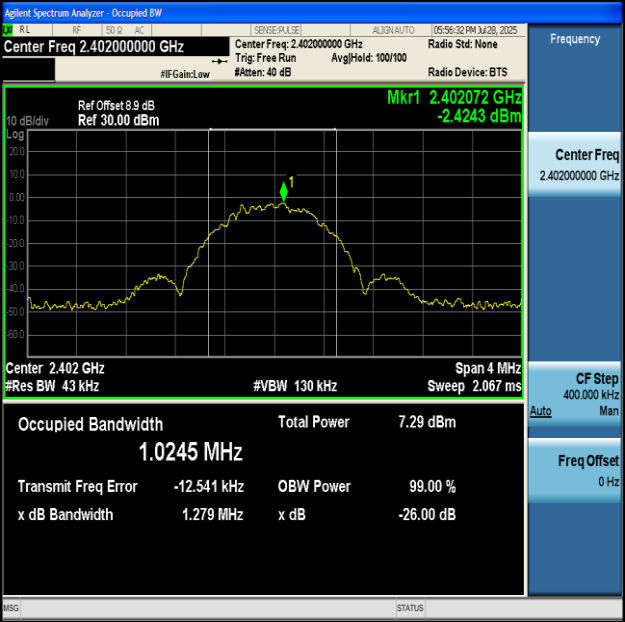
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

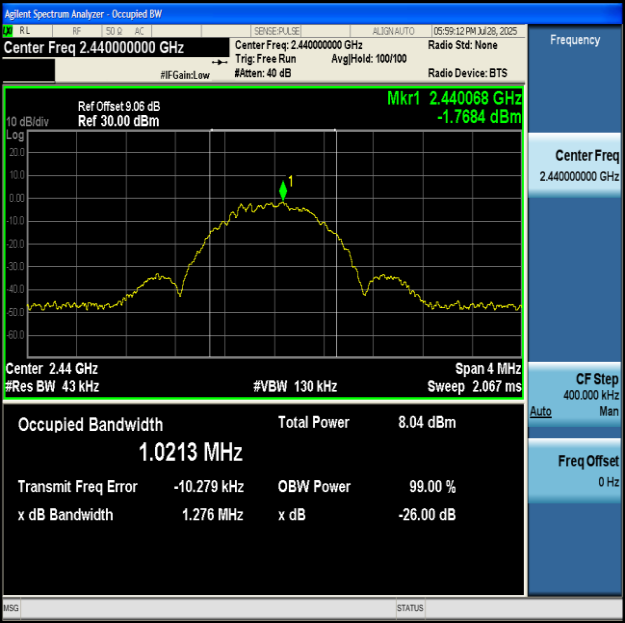




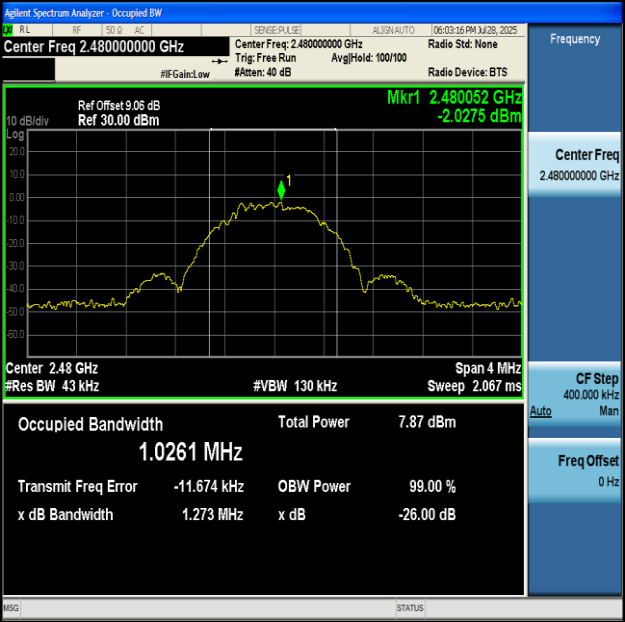
BLE_1M-Ant1-2480



BLE_2M-Ant1-2402



BLE_2M-Ant1-2440



BLE_2M-Ant1-2480

Appendix C: Maximum peak conducted output power

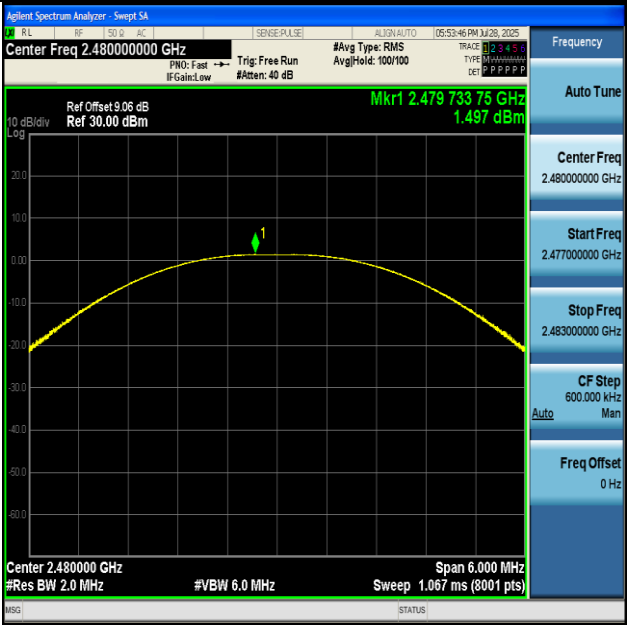
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0.96	≤30	PASS
BLE_1M	Ant1	2440	1.57	≤30	PASS
BLE_1M	Ant1	2480	1.50	≤30	PASS
BLE_2M	Ant1	2402	0.88	≤30	PASS
BLE_2M	Ant1	2440	1.50	≤30	PASS
BLE_2M	Ant1	2480	1.44	≤30	PASS

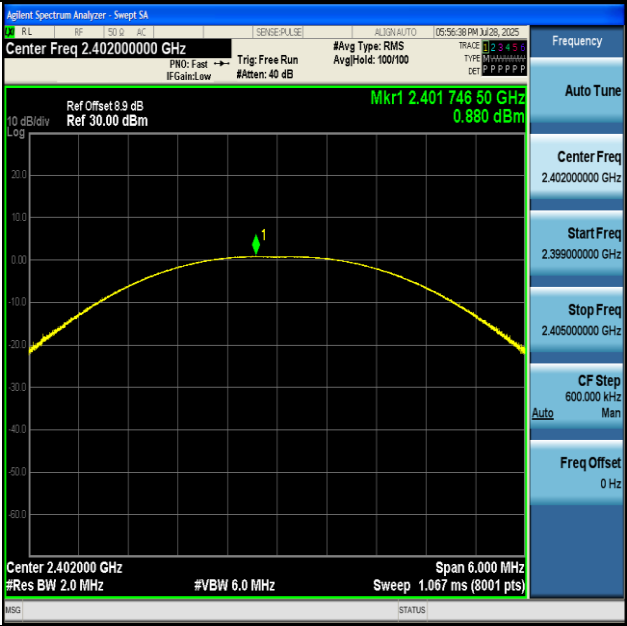
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs Peak

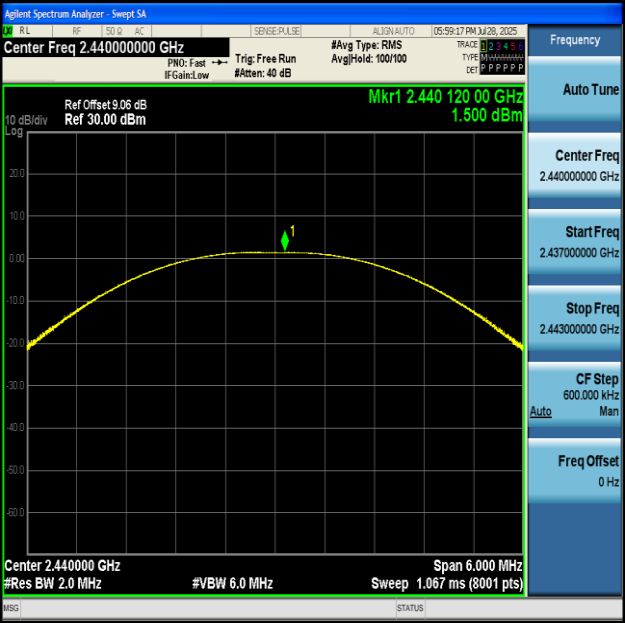




BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

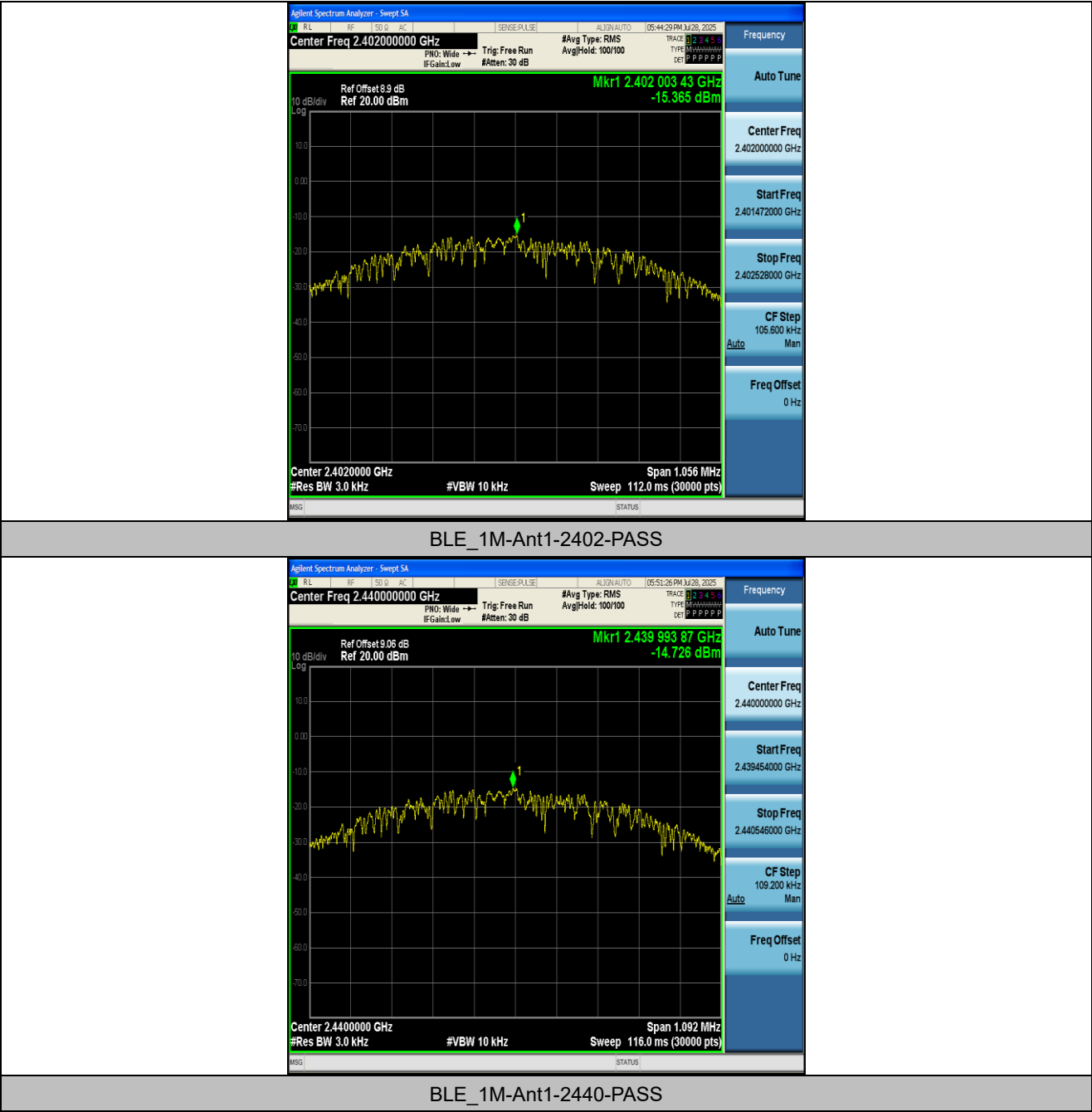
Appendix D: Maximum peak power spectral density

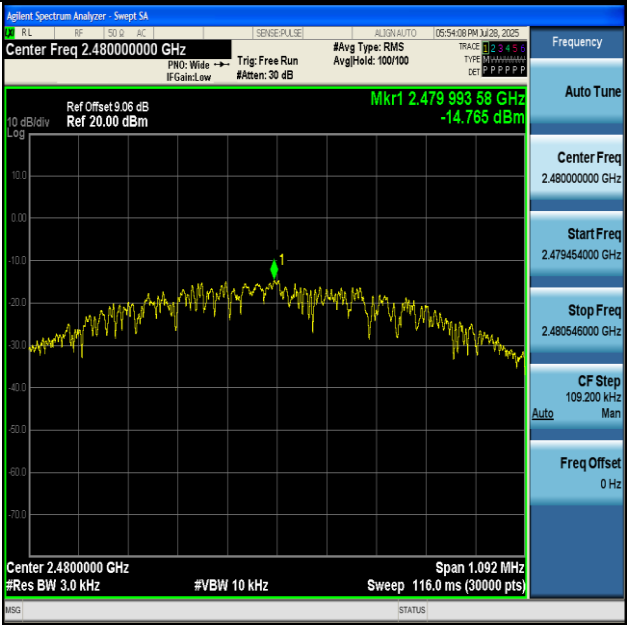
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.37	≤8.00	PASS
BLE_1M	Ant1	2440	-14.73	≤8.00	PASS
BLE_1M	Ant1	2480	-14.77	≤8.00	PASS
BLE_2M	Ant1	2402	-15.39	≤8.00	PASS
BLE_2M	Ant1	2440	-14.80	≤8.00	PASS
BLE_2M	Ant1	2480	-14.77	≤8.00	PASS

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

Test Graphs

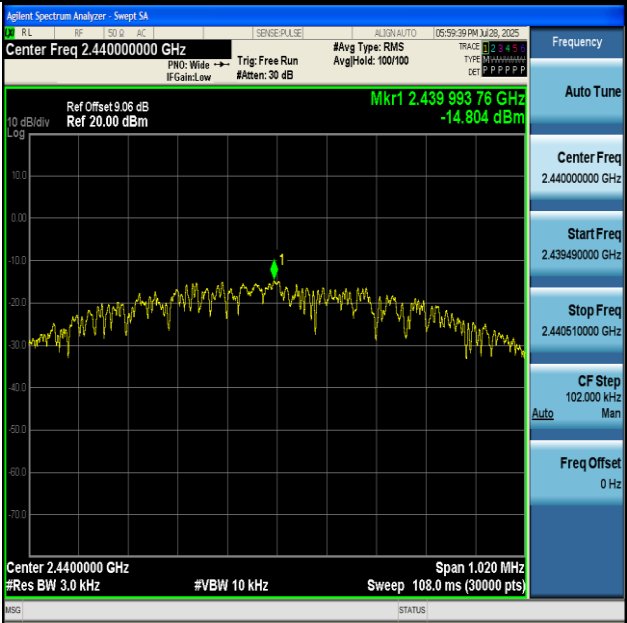




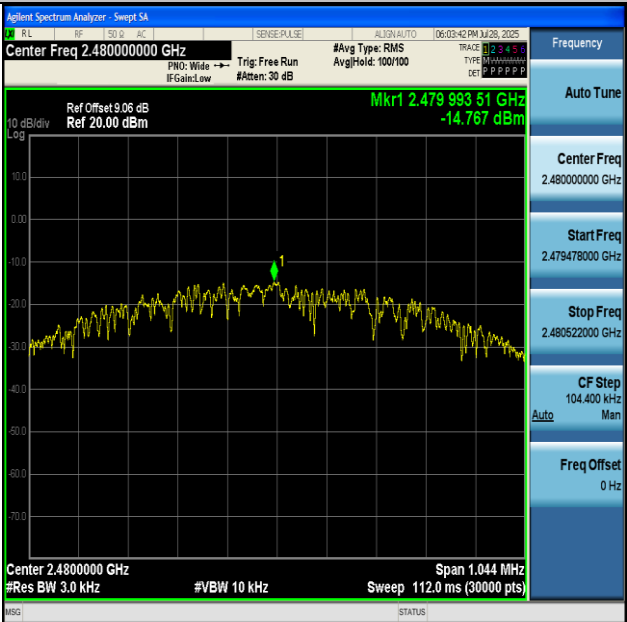
BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

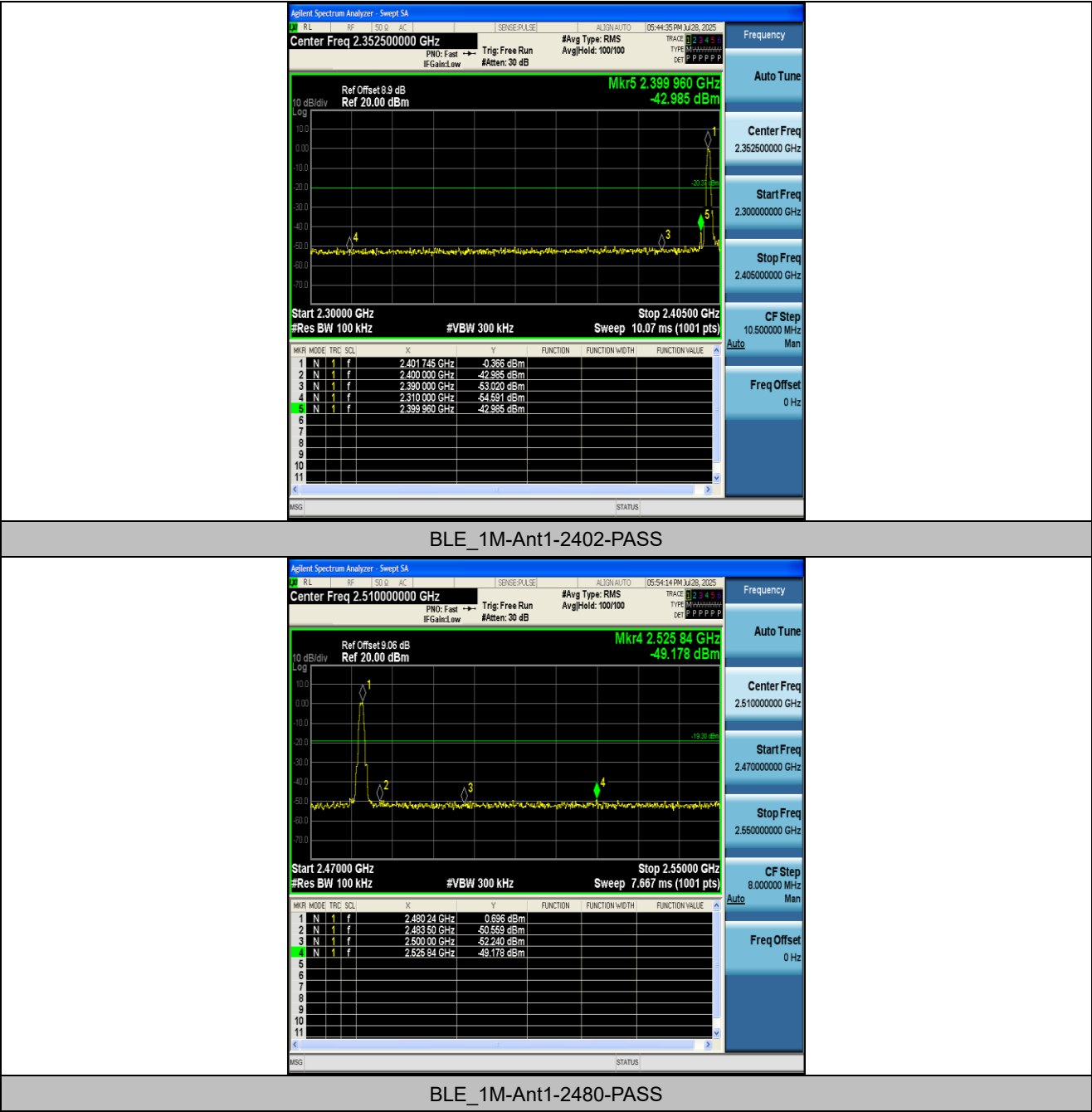
Appendix E: Band edge measurements

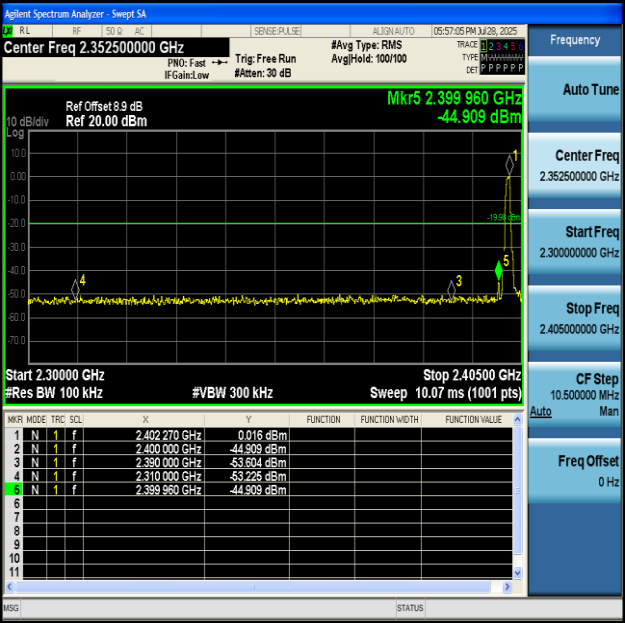
Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.37	-42.99	≤-20.37	PASS
BLE_1M	Ant1	High	2480	0.70	-49.18	≤-19.3	PASS
BLE_2M	Ant1	Low	2402	0.02	-44.91	≤-19.98	PASS
BLE_2M	Ant1	High	2480	0.48	-49.38	≤-19.52	PASS

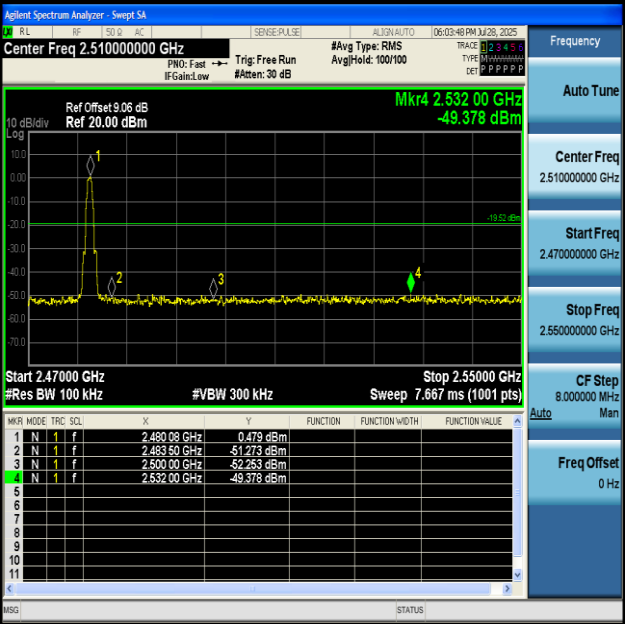
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs





BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2480-PASS

Appendix F: Conducted Spurious Emission

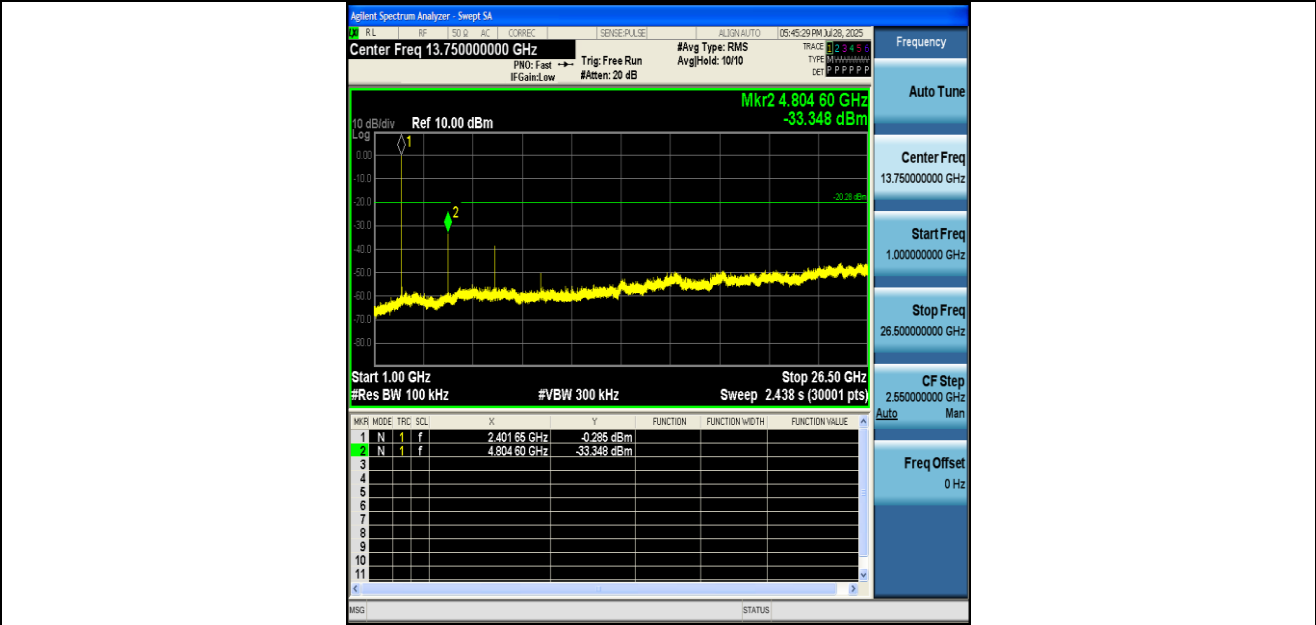
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.28	-0.28	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.28	-62.83	≤-20.28	PASS
BLE_1M	Ant1	2402	1000~26500	-0.28	-33.35	≤-20.28	PASS
BLE_1M	Ant1	2440	0~Reference	0.31	0.31	---	PASS
BLE_1M	Ant1	2440	30~1000	0.31	-63.36	≤-19.69	PASS
BLE_1M	Ant1	2440	1000~26500	0.31	-35.42	≤-19.69	PASS
BLE_1M	Ant1	2480	0~Reference	0.35	0.35	---	PASS
BLE_1M	Ant1	2480	30~1000	0.35	-63.04	≤-19.65	PASS
BLE_1M	Ant1	2480	1000~26500	0.35	-37.87	≤-19.65	PASS
BLE_2M	Ant1	2402	0~Reference	-0.62	-0.62	---	PASS
BLE_2M	Ant1	2402	30~1000	-0.62	-62.43	≤-20.62	PASS
BLE_2M	Ant1	2402	1000~26500	-0.62	-35.07	≤-20.62	PASS
BLE_2M	Ant1	2440	0~Reference	-0.07	-0.07	---	PASS
BLE_2M	Ant1	2440	30~1000	-0.07	-62.5	≤-20.07	PASS
BLE_2M	Ant1	2440	1000~26500	-0.07	-35.1	≤-20.07	PASS
BLE_2M	Ant1	2480	0~Reference	0.32	0.32	---	PASS
BLE_2M	Ant1	2480	30~1000	0.32	-63.06	≤-19.68	PASS
BLE_2M	Ant1	2480	1000~26500	0.32	-39.61	≤-19.68	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

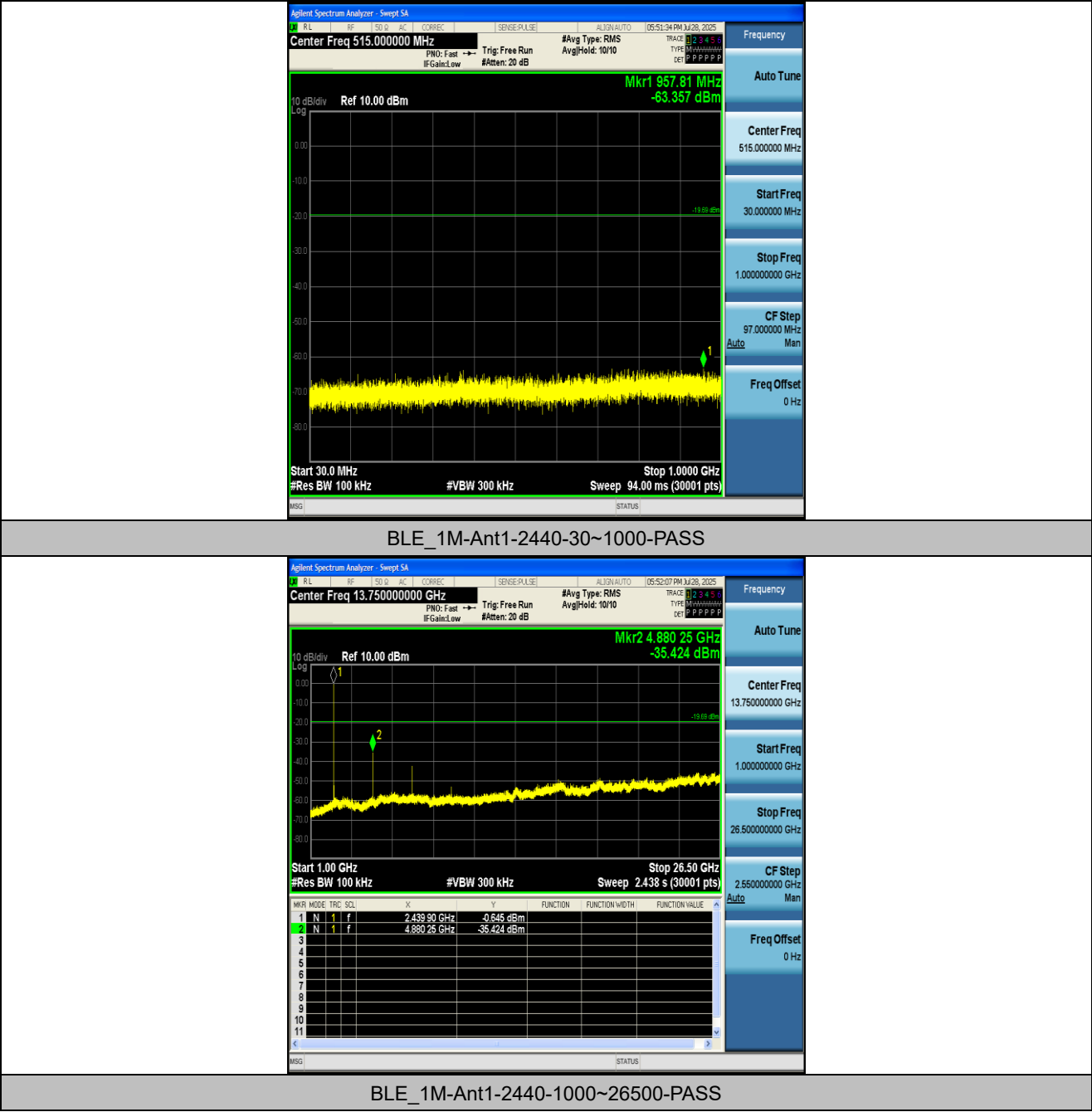


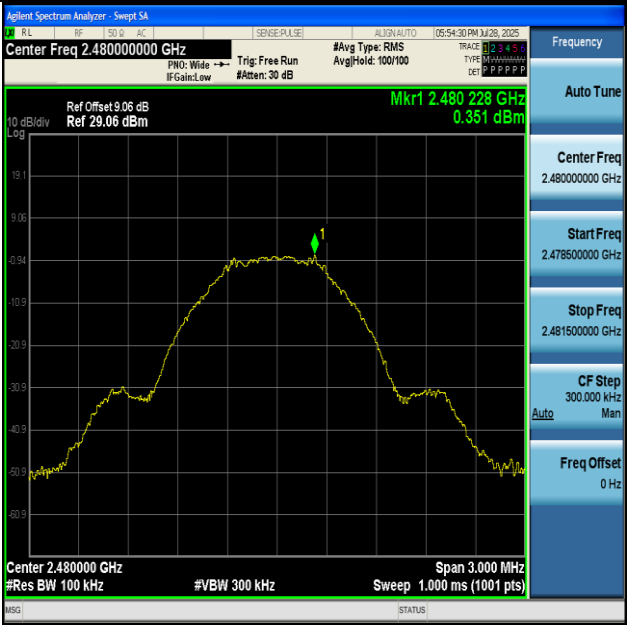


BLE_1M-Ant1-2402-1000~26500-PASS

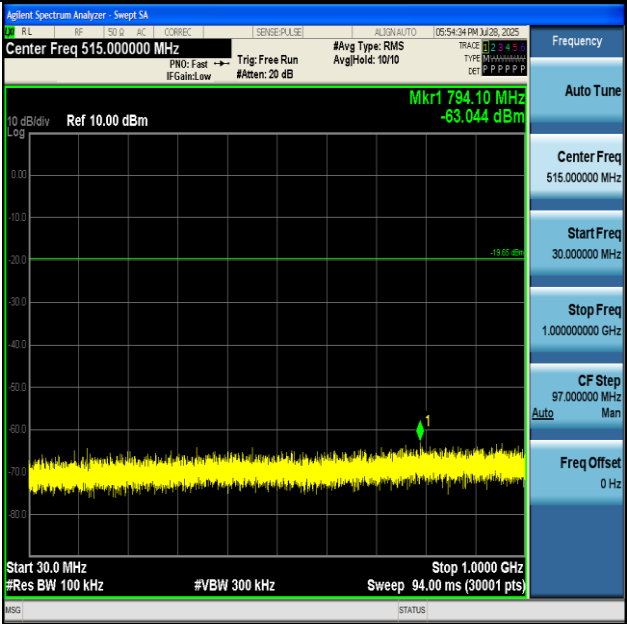


BLE_1M-Ant1-2440-0~Reference-PASS

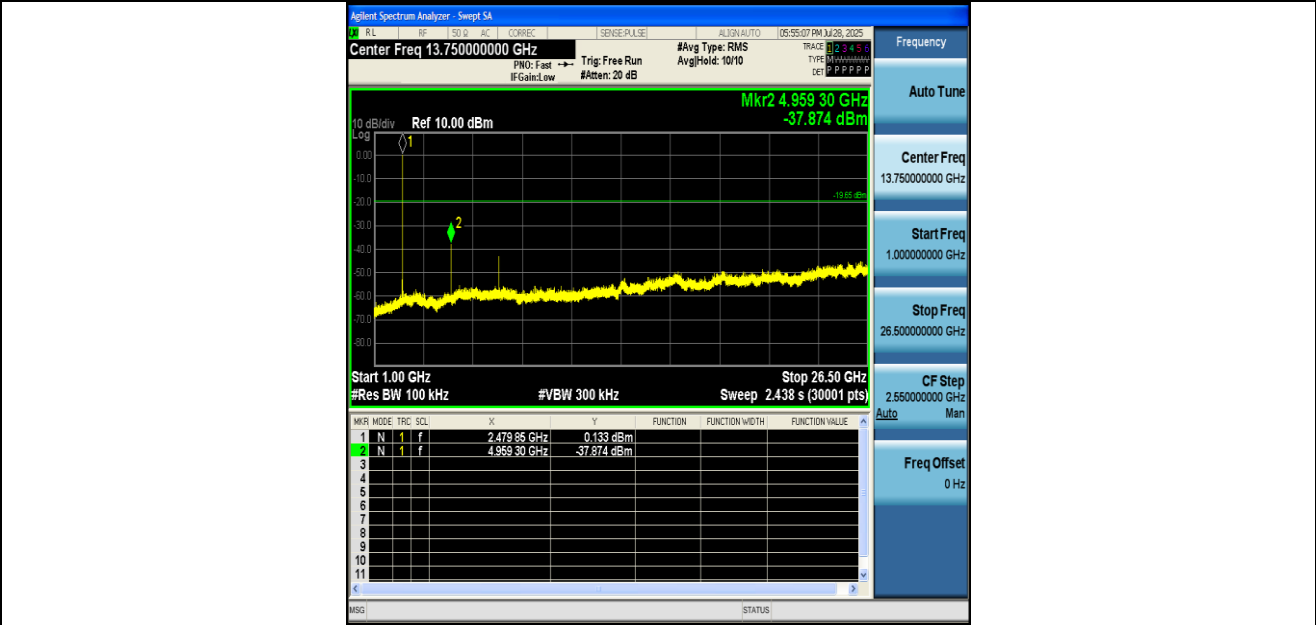




BLE_1M-Ant1-2480-0~Reference-PASS



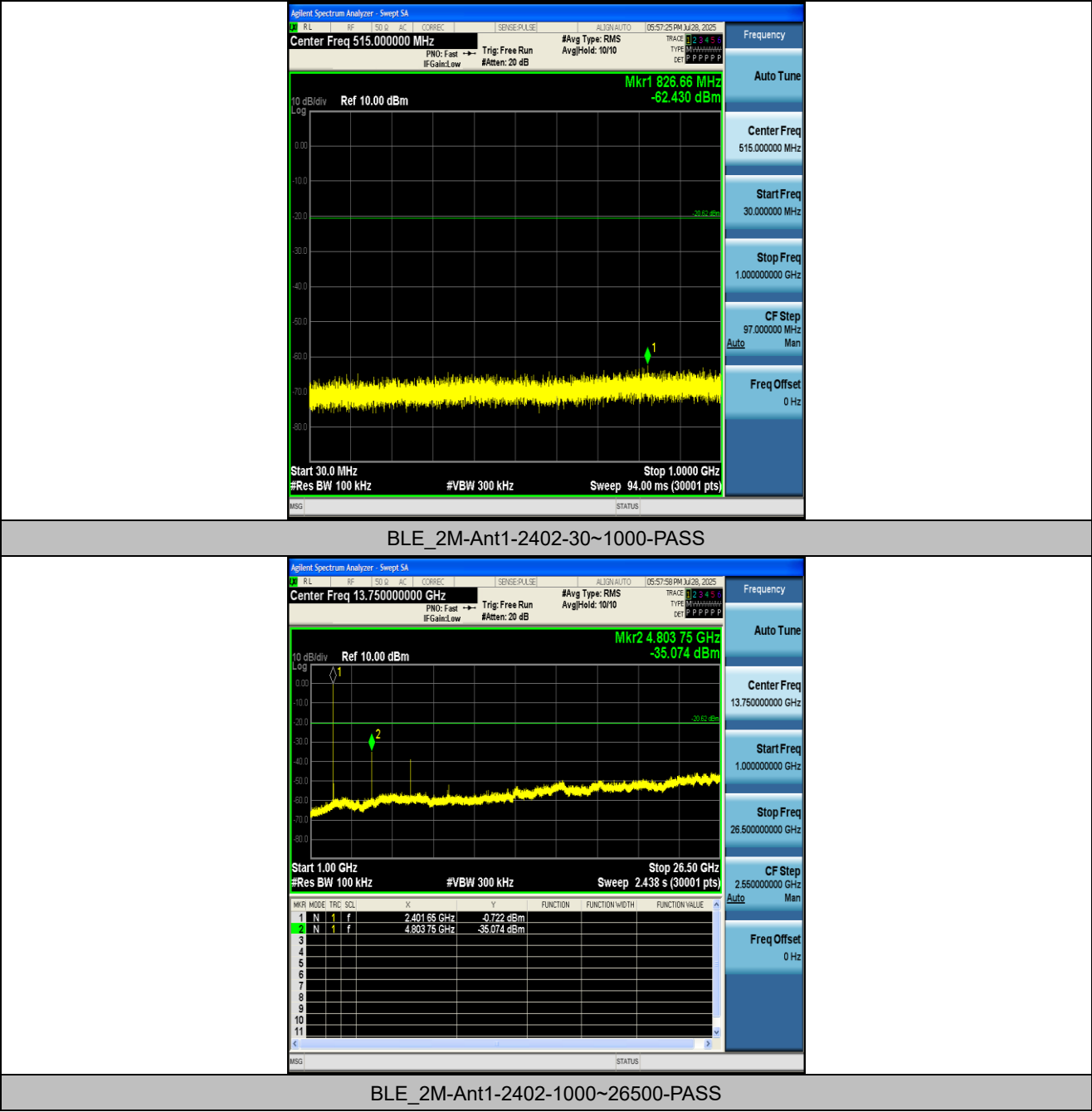
BLE_1M-Ant1-2480-30~1000-PASS

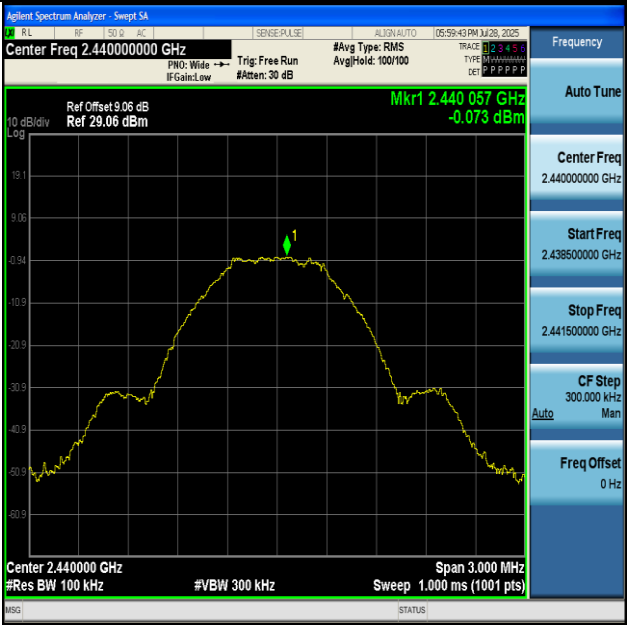


BLE_1M-Ant1-2480-1000~26500-PASS

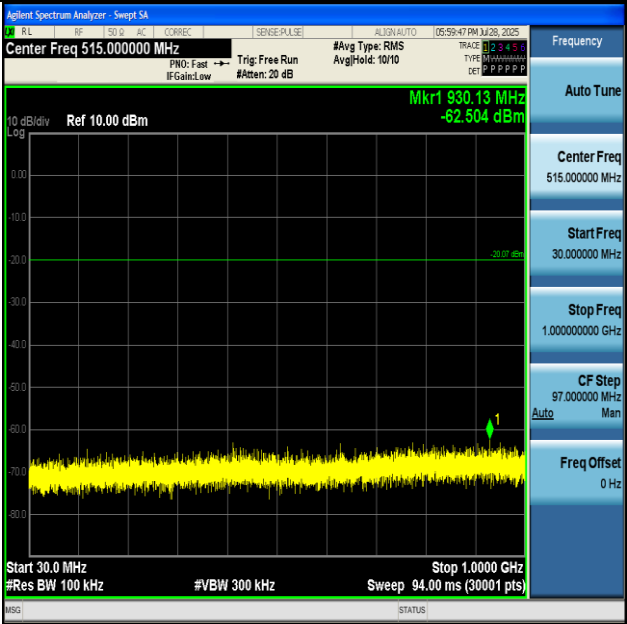


BLE_2M-Ant1-2402-0~Reference-PASS



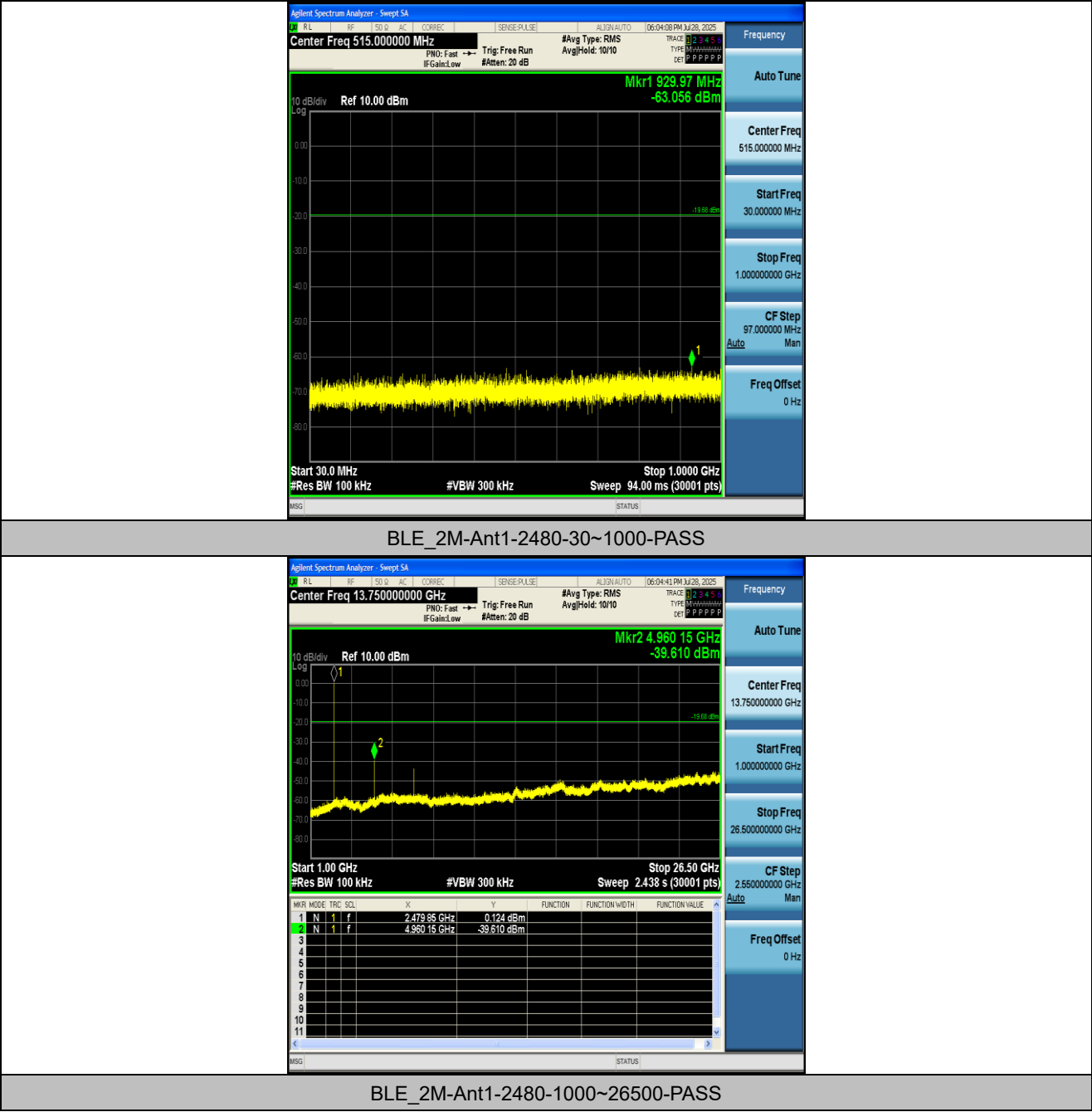


BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-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

