

Appendix Test Data for BLE (Conducted Measurement)

Product Name: RGBW LED Lights

Trade Mark: /

Test Model: S-FULL-8

FCC ID: 2A69M-SFULL8

Environmental Conditions

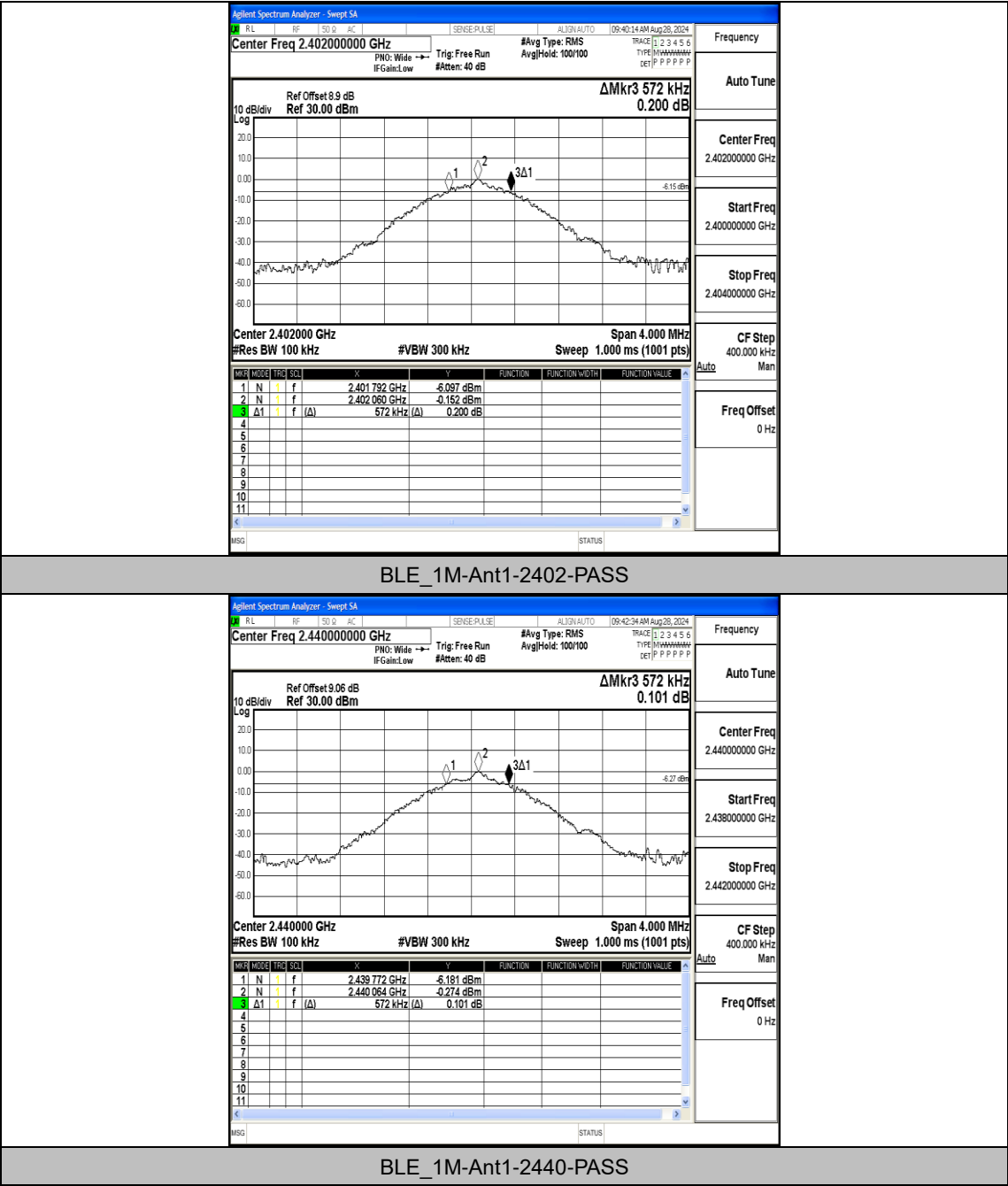
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

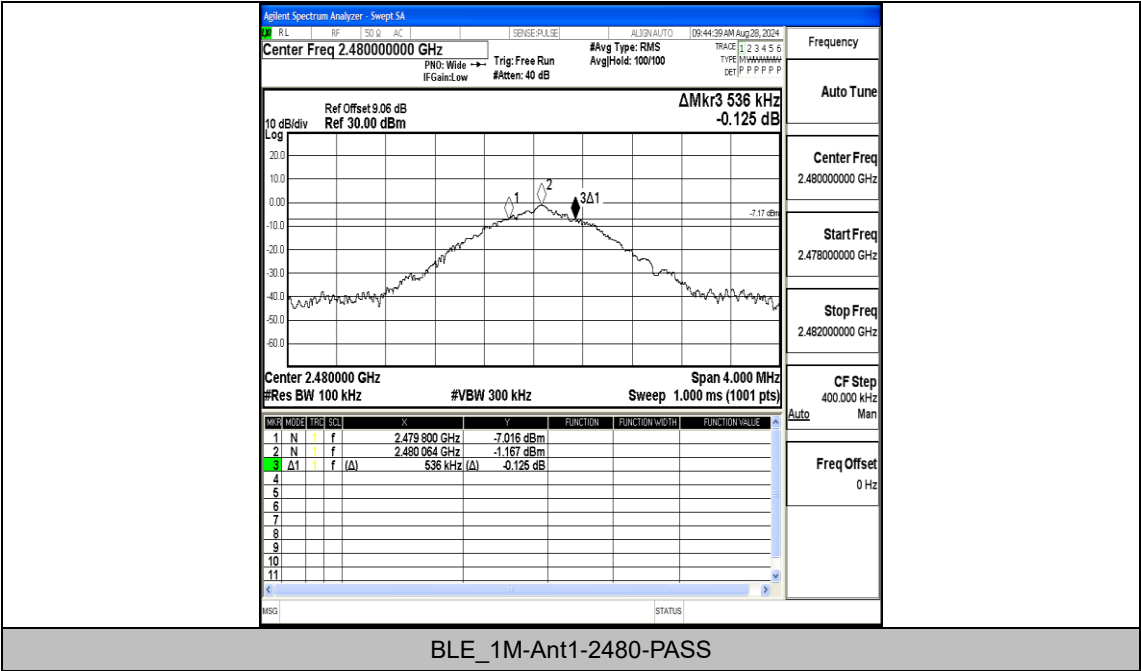
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.572	2401.792	2402.364	0.5	PASS
BLE_1M	Ant1	2440	0.572	2439.772	2440.344	0.5	PASS
BLE_1M	Ant1	2480	0.536	2479.800	2480.336	0.5	PASS

Test Graphs



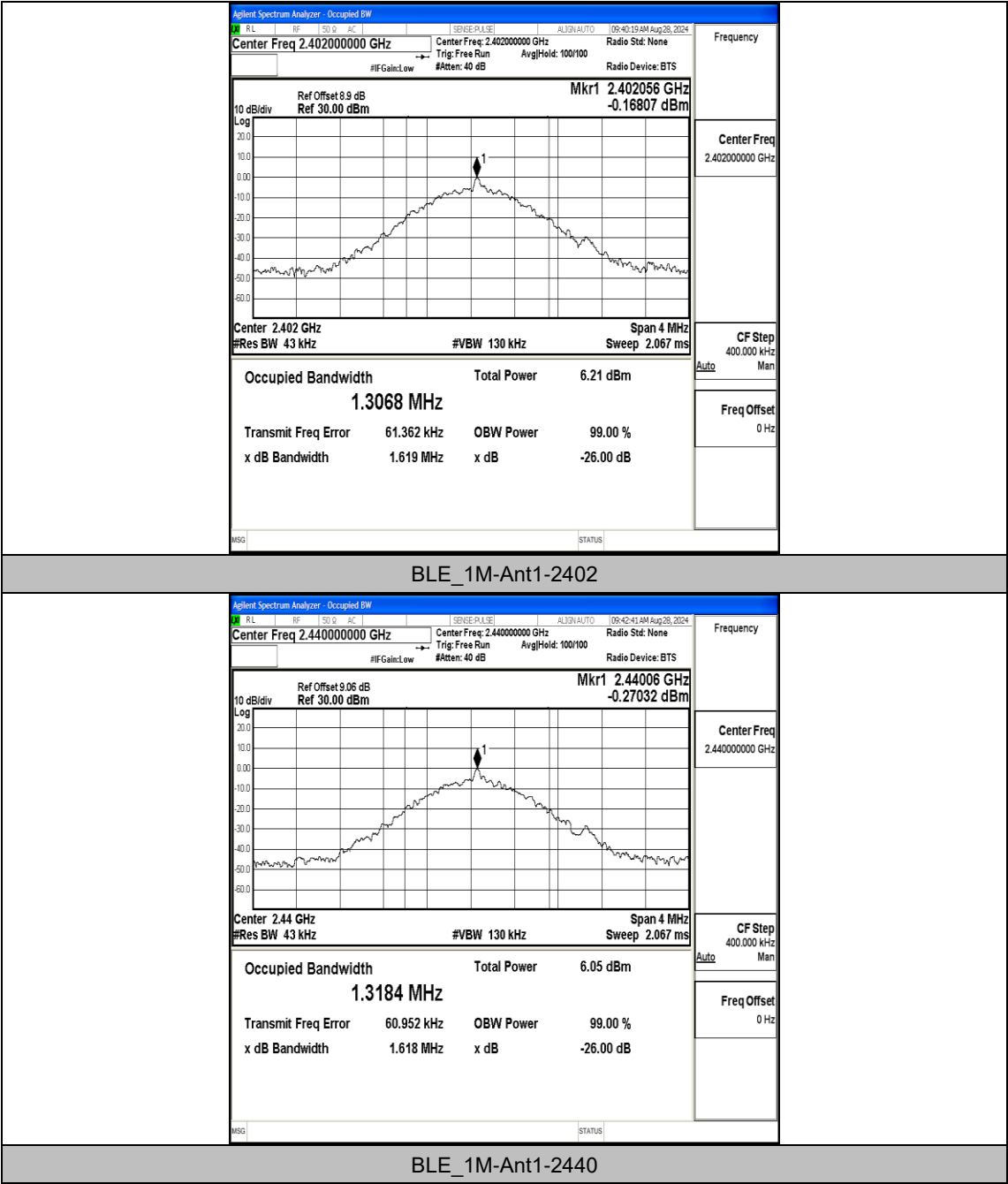


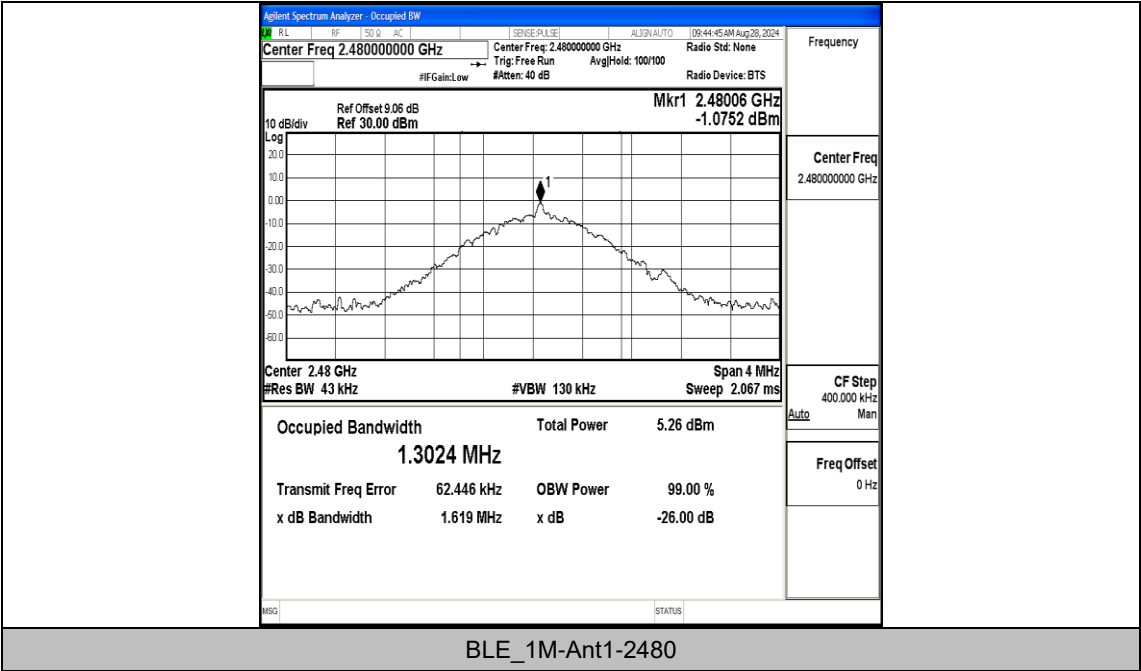
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.3068	2401.4080	2402.7148	---	---
BLE_1M	Ant1	2440	1.3184	2439.4018	2440.7202	---	---
BLE_1M	Ant1	2480	1.3024	2479.4113	2480.7137	---	---

Test Graphs



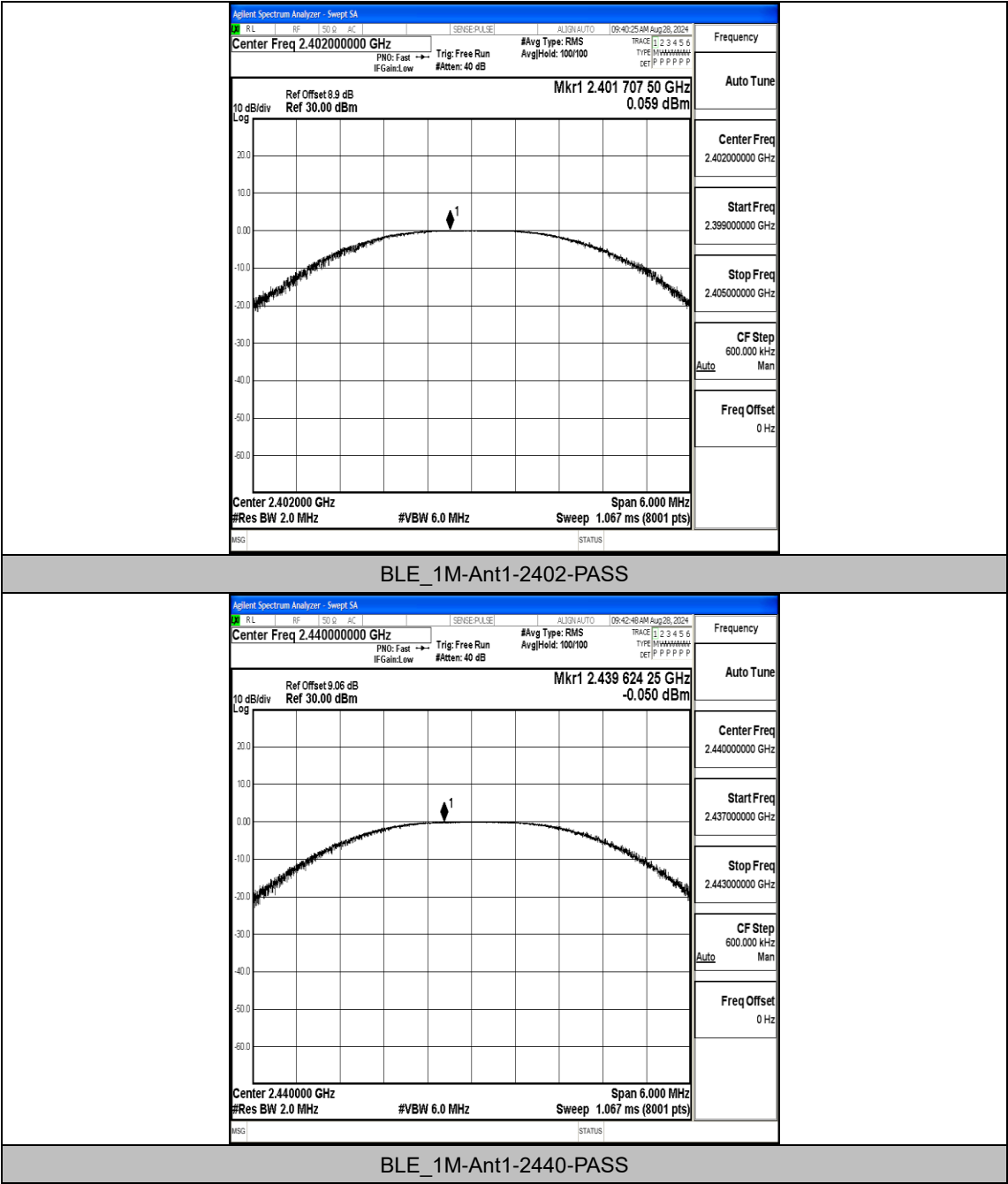


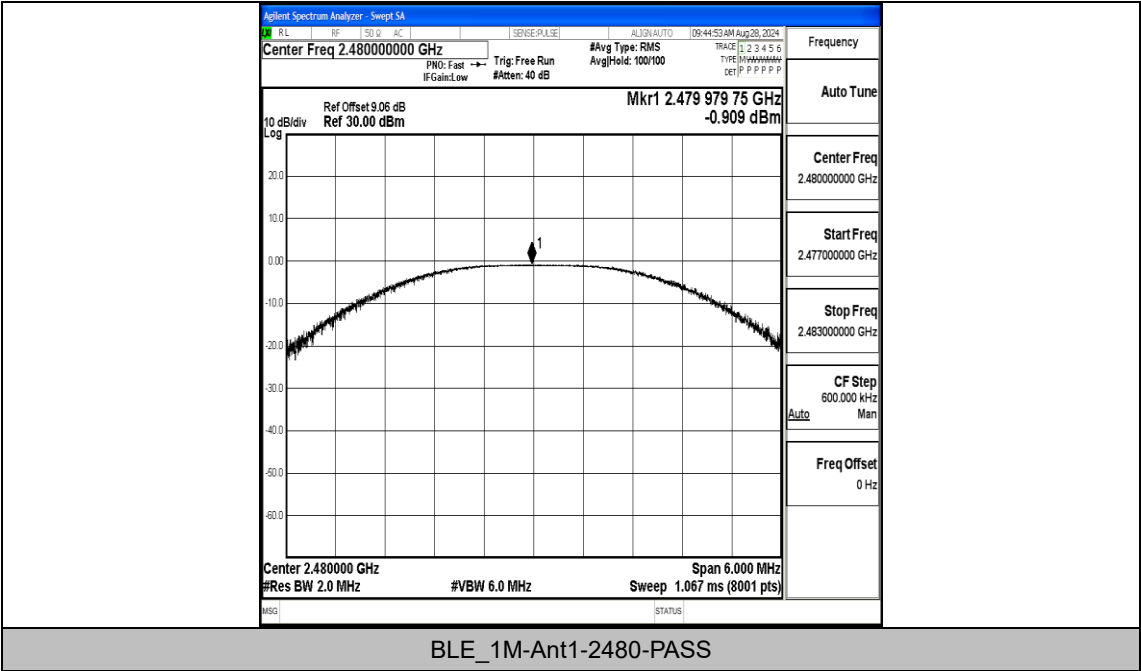
Appendix C: Maximum peak conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.06	≤30	PASS
BLE_1M	Ant1	2440	-0.05	≤30	PASS
BLE_1M	Ant1	2480	-0.91	≤30	PASS

Test Graphs Peak



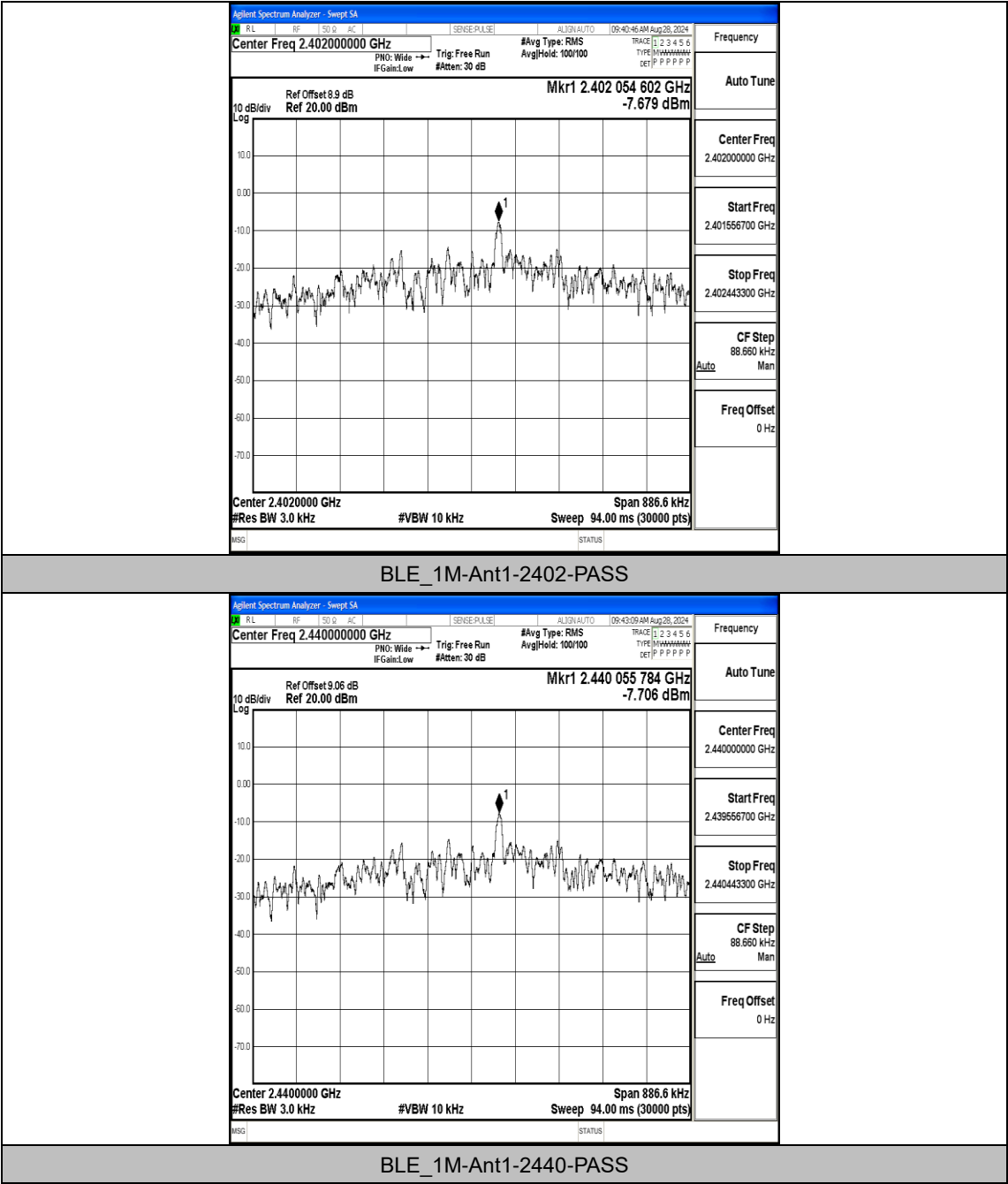


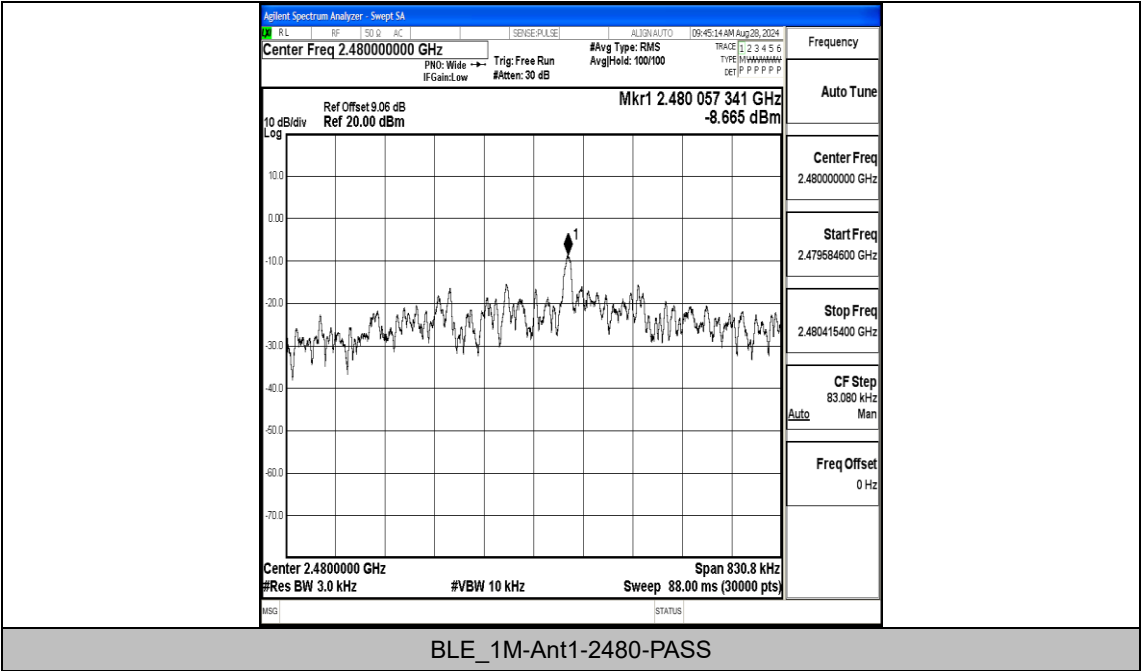
Appendix D: Maximum peak power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-7.68	≤8.00	PASS
BLE_1M	Ant1	2440	-7.71	≤8.00	PASS
BLE_1M	Ant1	2480	-8.67	≤8.00	PASS

Test Graphs



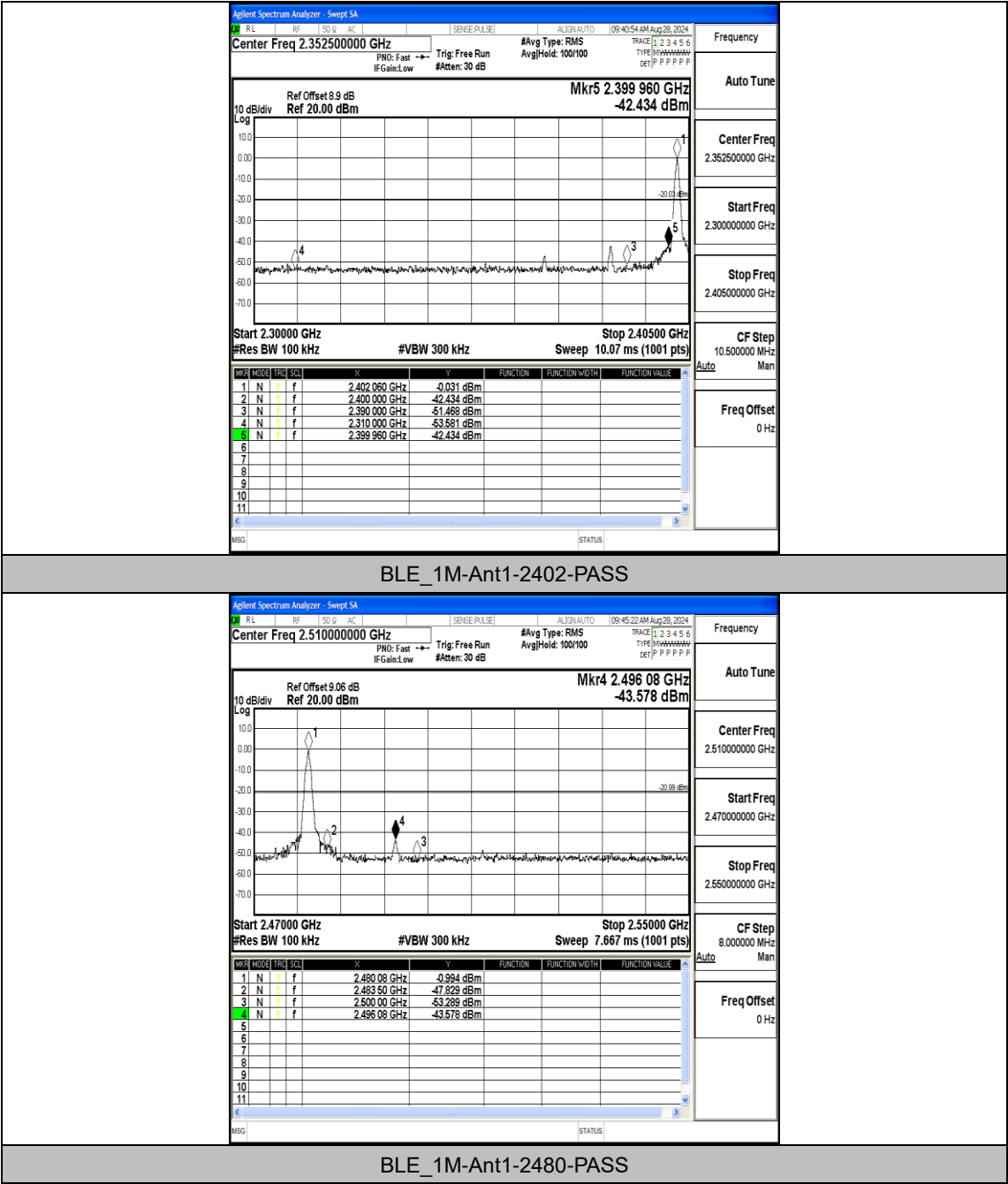


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.03	-42.43	≤ -20.03	PASS
BLE_1M	Ant1	High	2480	-0.99	-43.58	≤ -20.99	PASS

Test Graphs

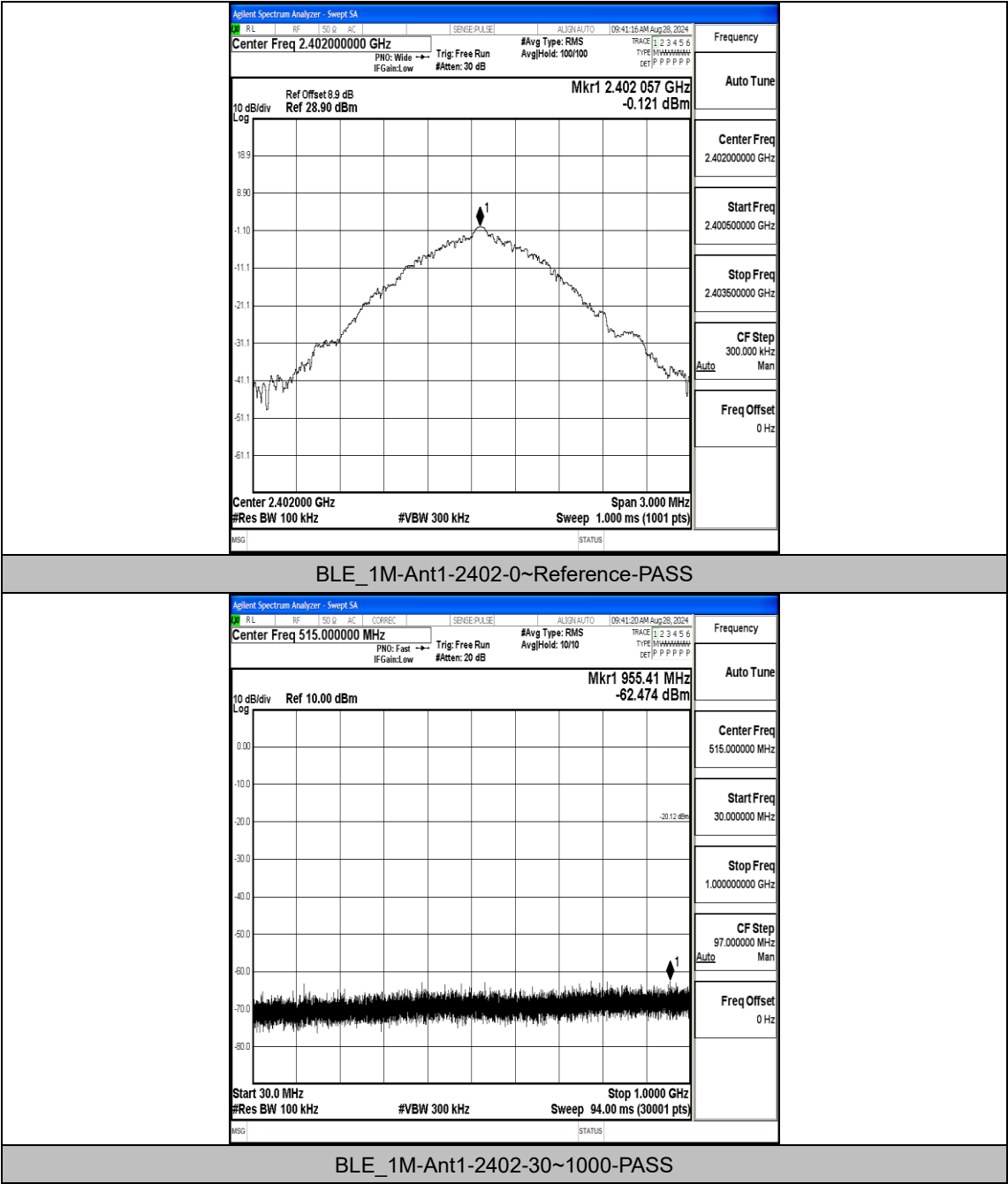


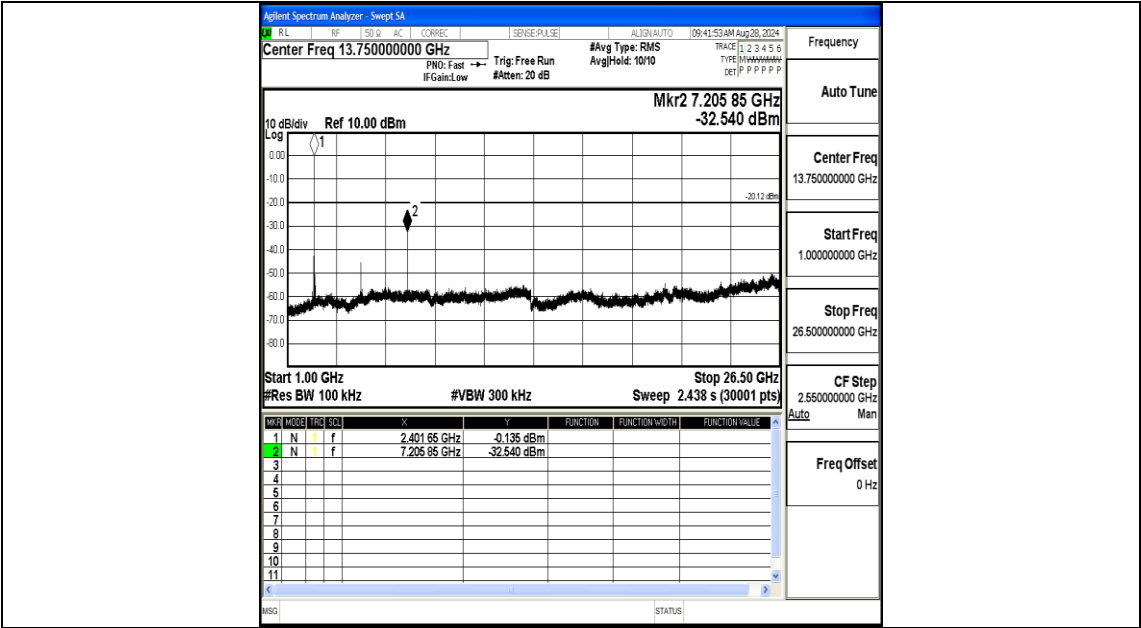
Appendix F: Conducted Spurious Emission

Test Result

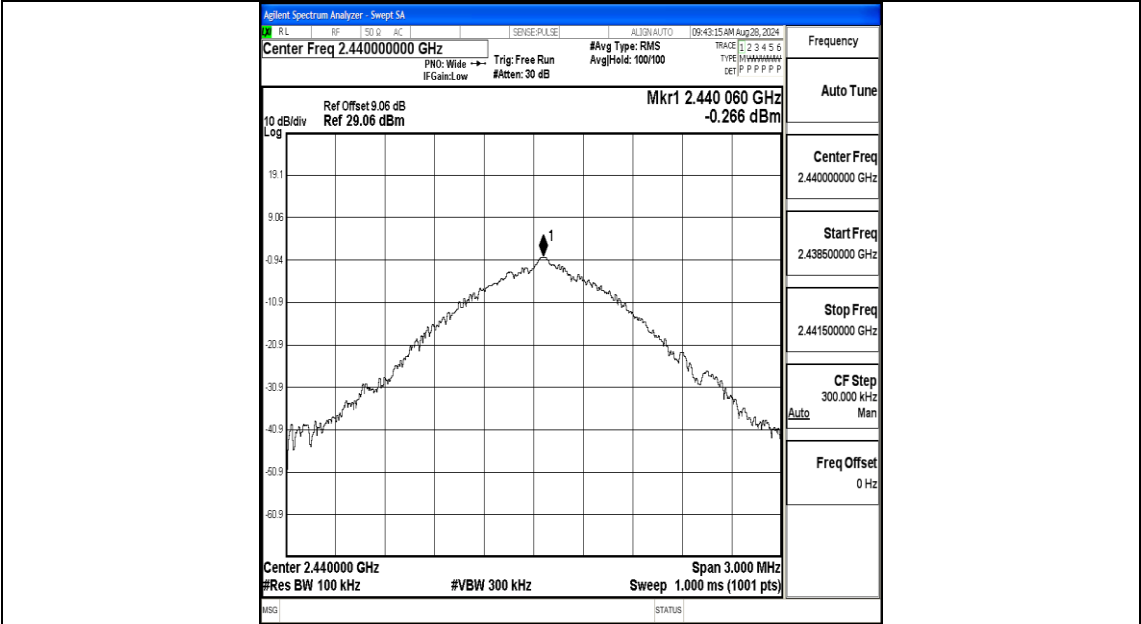
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.12	-0.12	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.12	-62.47	≤-20.12	PASS
BLE_1M	Ant1	2402	1000~26500	-0.12	-32.54	≤-20.12	PASS
BLE_1M	Ant1	2440	0~Reference	-0.27	-0.27	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.27	-62.47	≤-20.27	PASS
BLE_1M	Ant1	2440	1000~26500	-0.27	-37.02	≤-20.27	PASS
BLE_1M	Ant1	2480	0~Reference	-1.13	-1.13	---	PASS
BLE_1M	Ant1	2480	30~1000	-1.13	-62.34	≤-21.13	PASS
BLE_1M	Ant1	2480	1000~26500	-1.13	-31.49	≤-21.13	PASS

Test Graphs

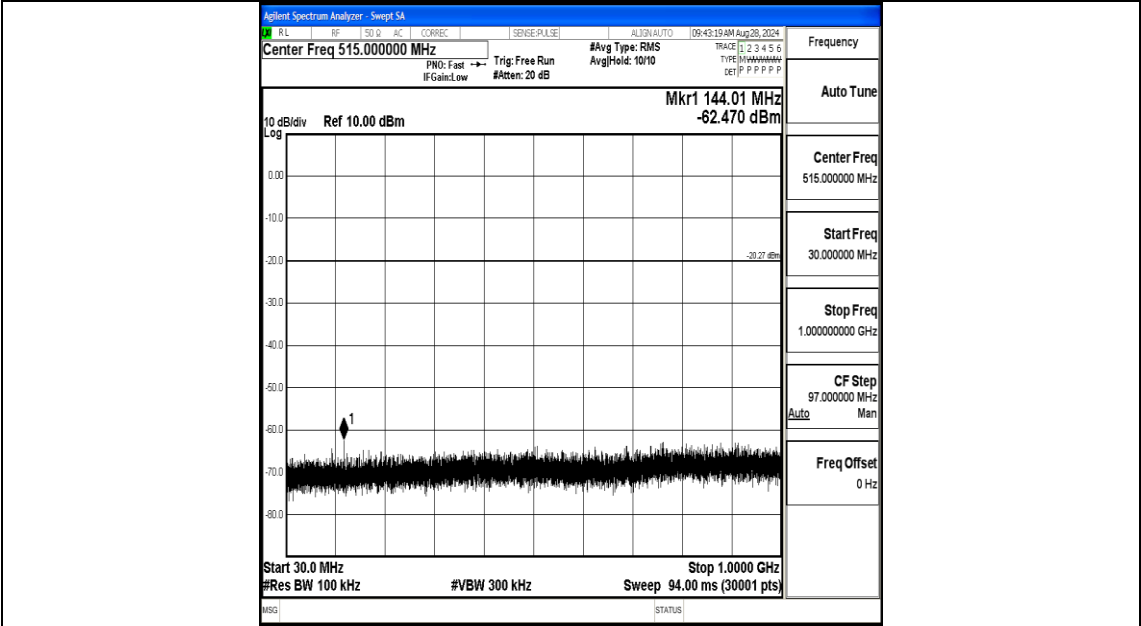




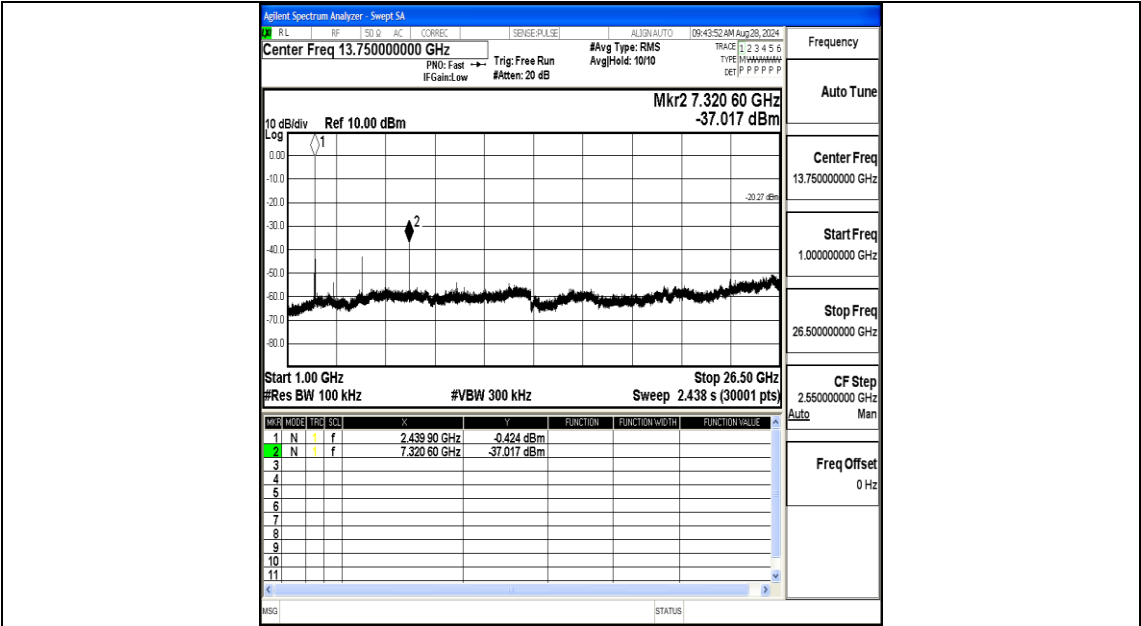
BLE_1M-Ant1-2402-1000~26500-PASS



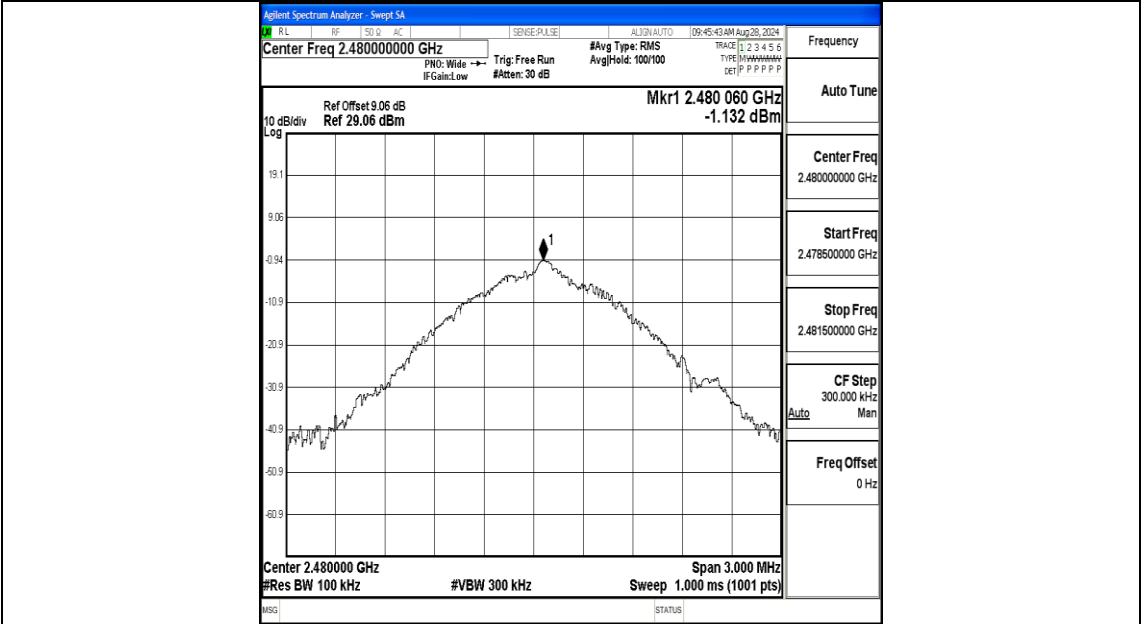
BLE_1M-Ant1-2440-0~Reference-PASS



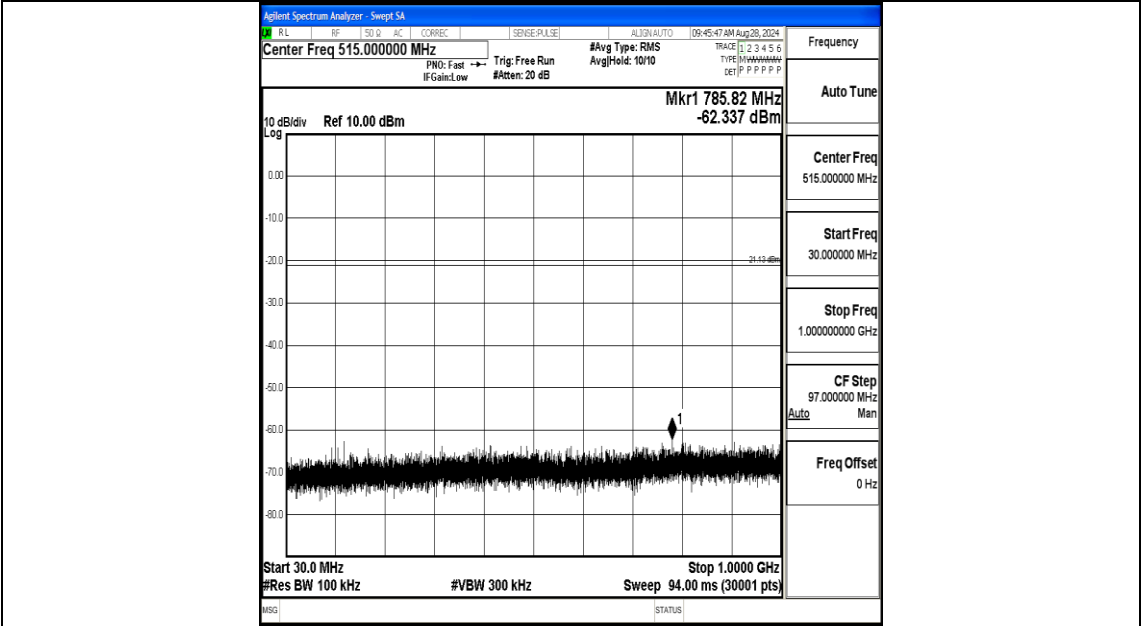
BLE_1M-Ant1-2440-30~1000-PASS



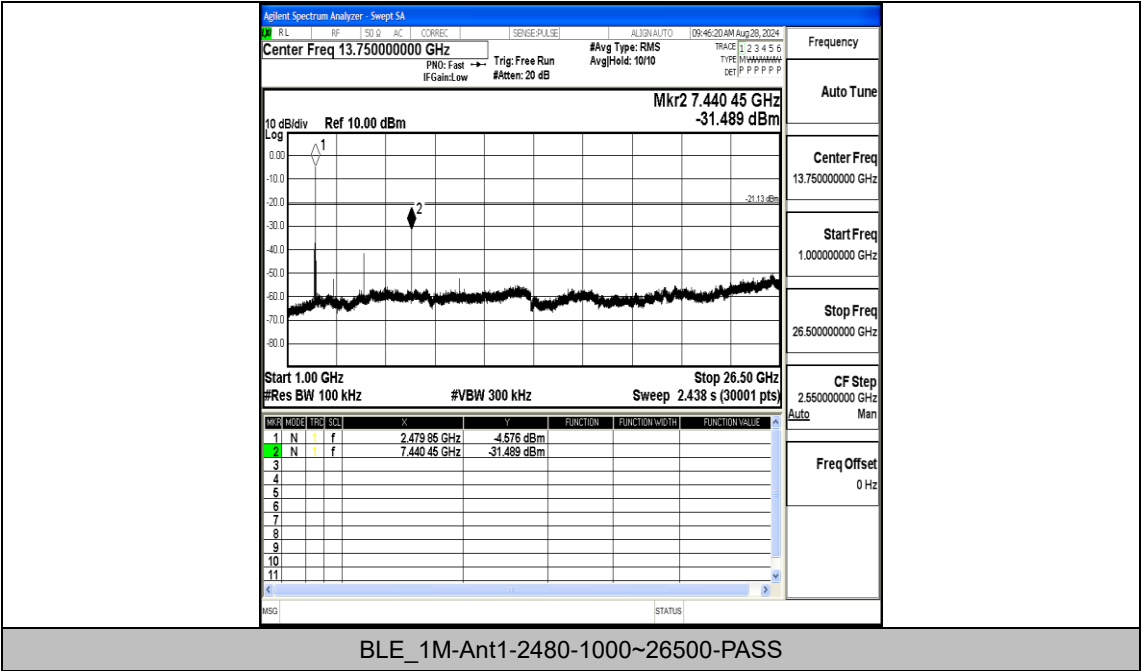
BLE_1M-Ant1-2440-1000~26500-PASS



BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.49	0.63	77.78	1.09
BLE_1M	Ant1	2440	0.48	0.62	77.42	1.11
BLE_1M	Ant1	2480	0.49	0.63	77.78	1.09

Test Graphs

