

Appendix Test Data for BLE (Conducted Measurement)

Product Name: REMOTE CONTROL UNIT

Trade Mark: STAVIX

Test Model: 123-V2.1

FCC ID: 2A4GF-123

Environmental Conditions

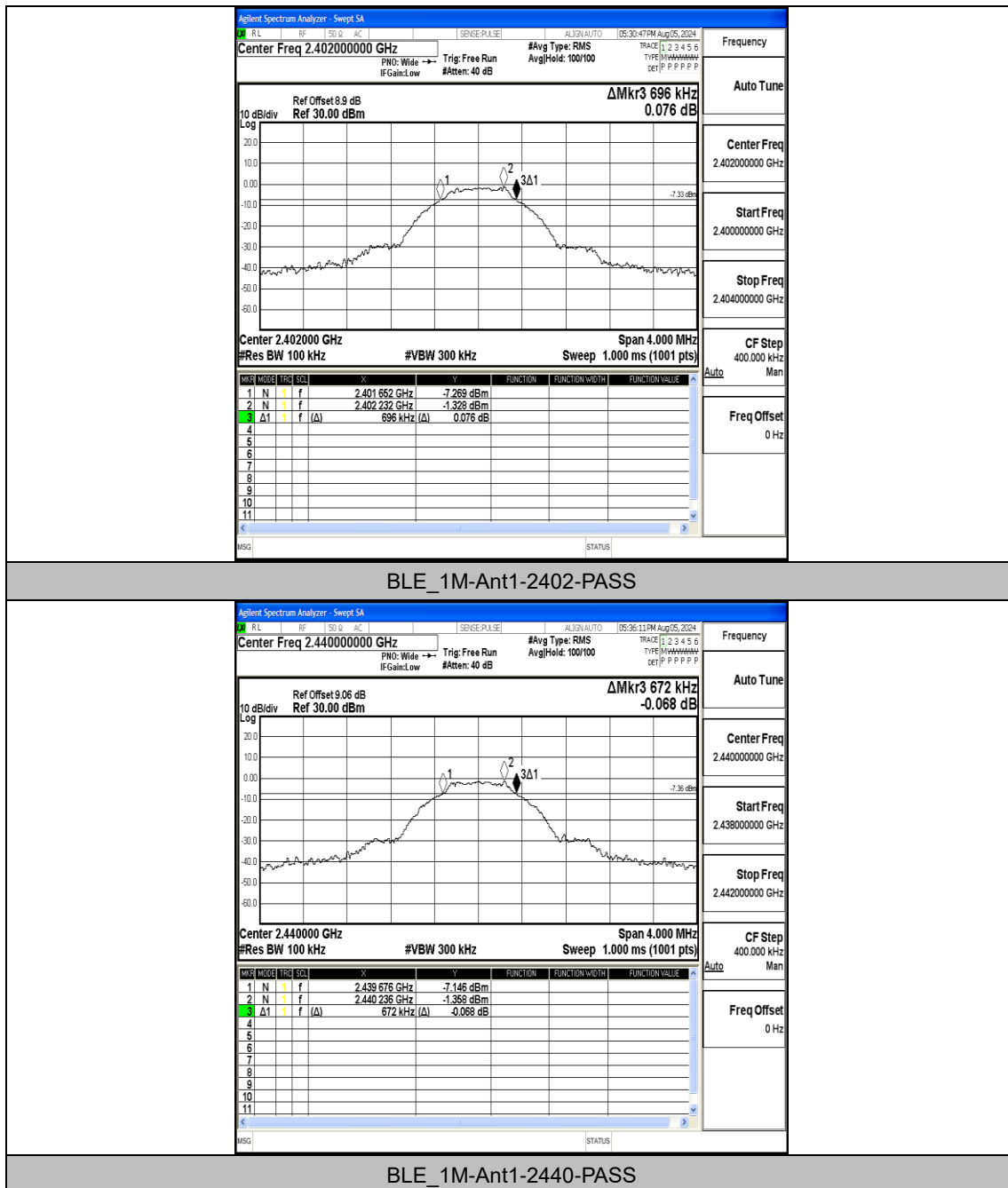
Temperature:	23.8°C
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth

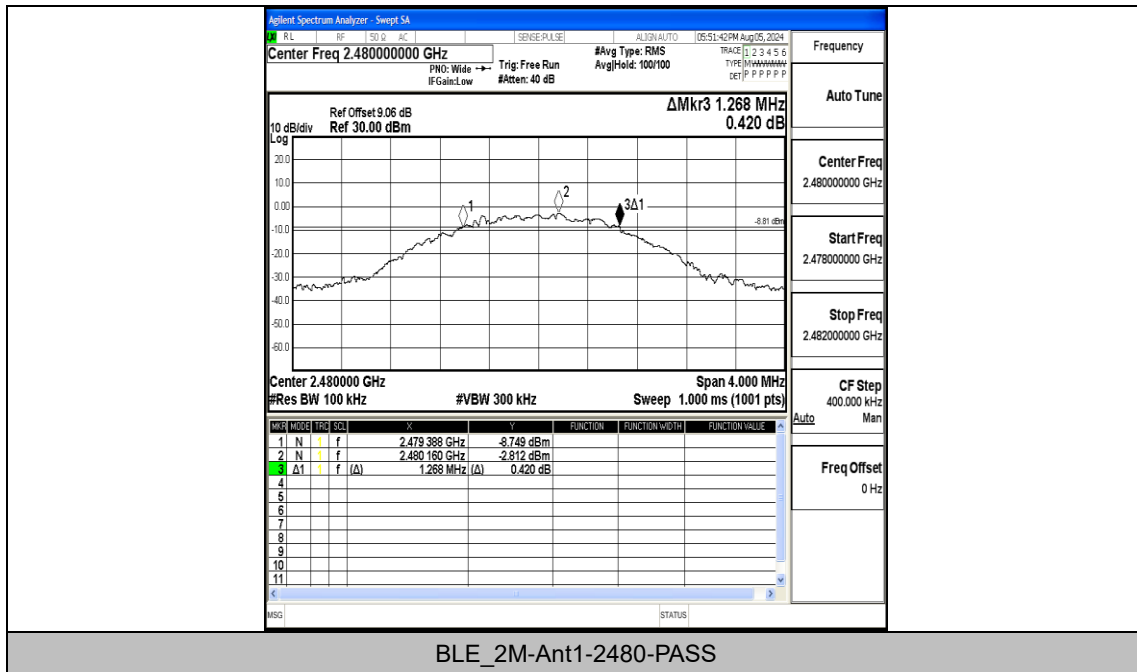
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.696	2401.652	2402.348	0.5	PASS
BLE_1M	Ant1	2440	0.672	2439.676	2440.348	0.5	PASS
BLE_1M	Ant1	2480	0.684	2479.664	2480.348	0.5	PASS
BLE_2M	Ant1	2402	1.248	2401.404	2402.652	0.5	PASS
BLE_2M	Ant1	2440	1.228	2439.400	2440.628	0.5	PASS
BLE_2M	Ant1	2480	1.268	2479.388	2480.656	0.5	PASS

Test Graphs





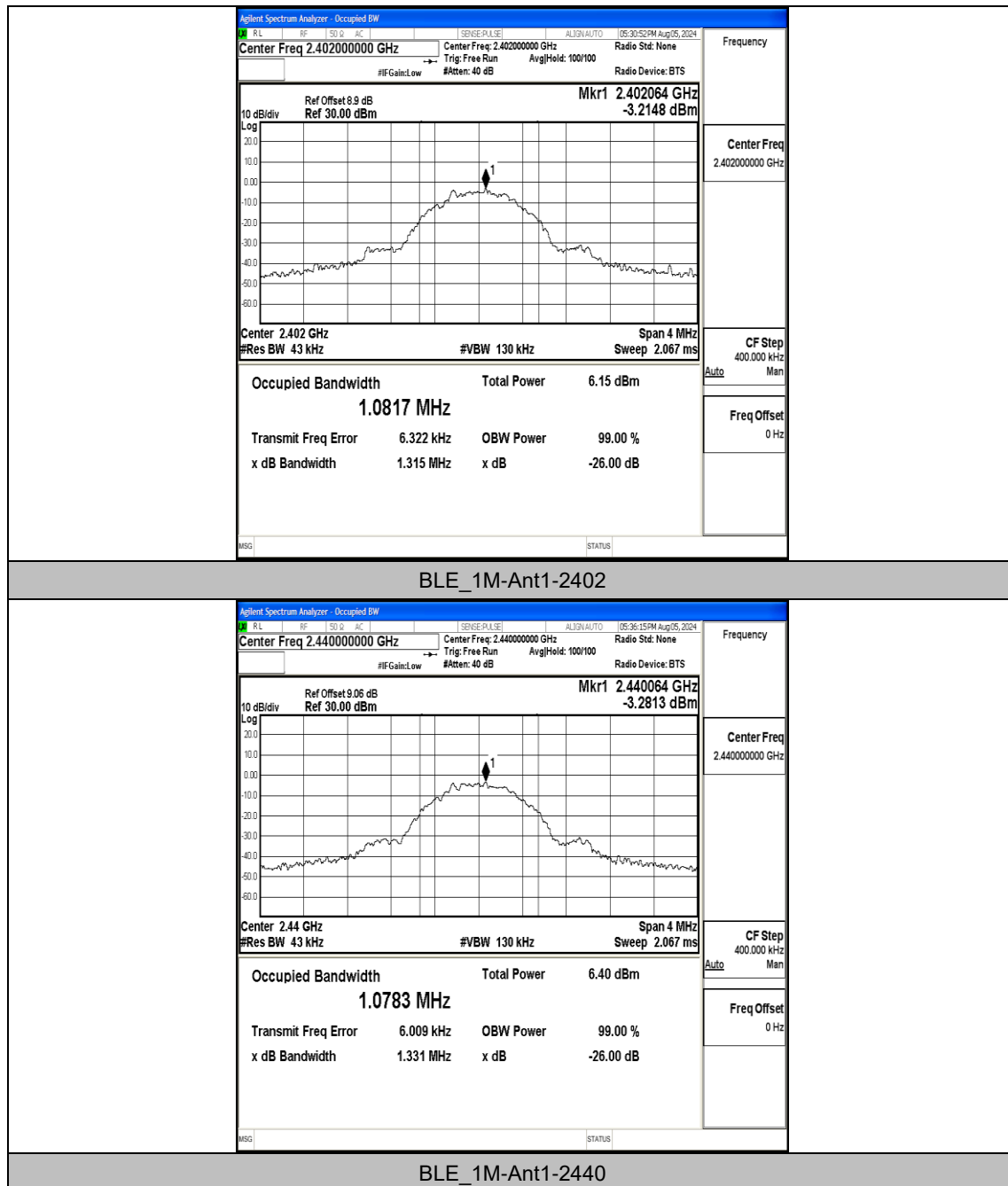


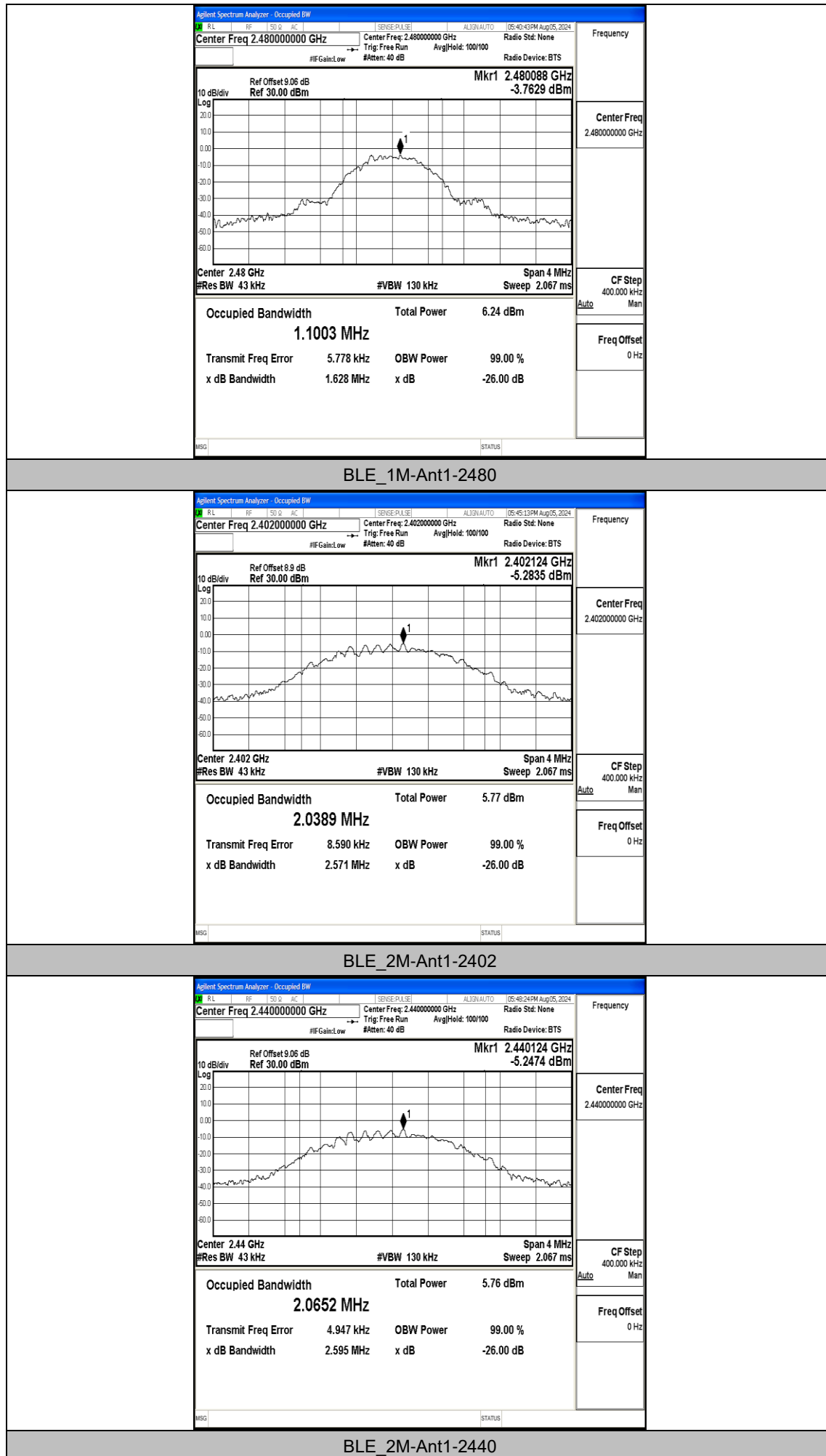
Appendix B: Occupied Channel Bandwidth

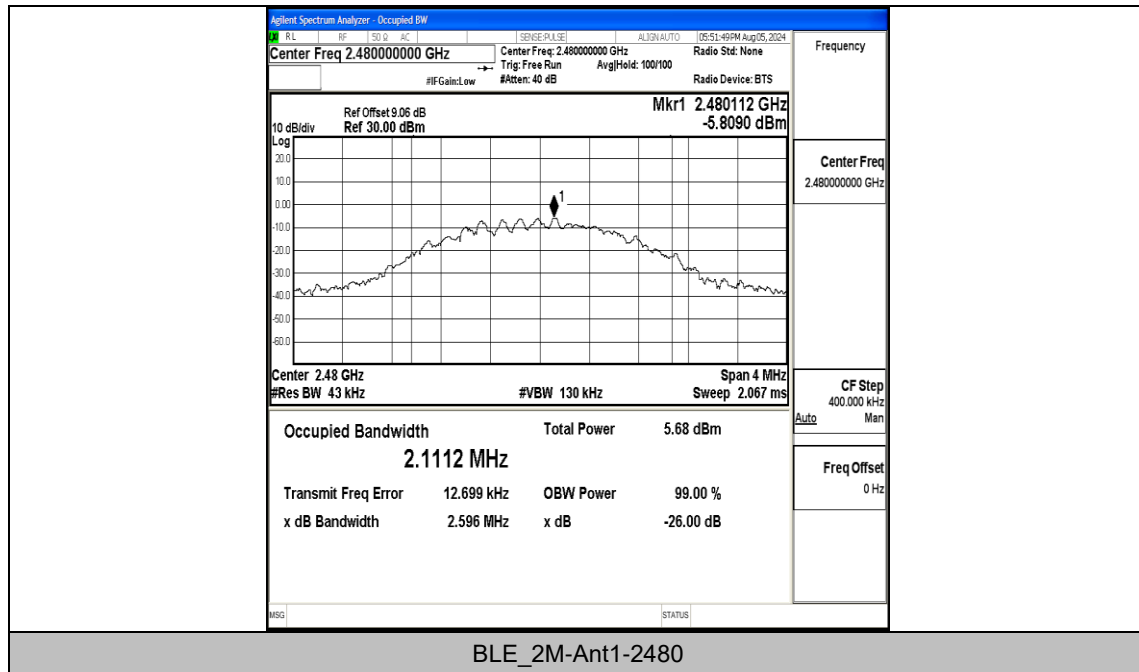
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0817	2401.4655	2402.5472	---	---
BLE_1M	Ant1	2440	1.0783	2439.4669	2440.5452	---	---
BLE_1M	Ant1	2480	1.1003	2479.4556	2480.5559	---	---
BLE_2M	Ant1	2402	2.0389	2400.9891	2403.0280	---	---
BLE_2M	Ant1	2440	2.0652	2438.9724	2441.0376	---	---
BLE_2M	Ant1	2480	2.1112	2478.9571	2481.0683	---	---

Test Graphs





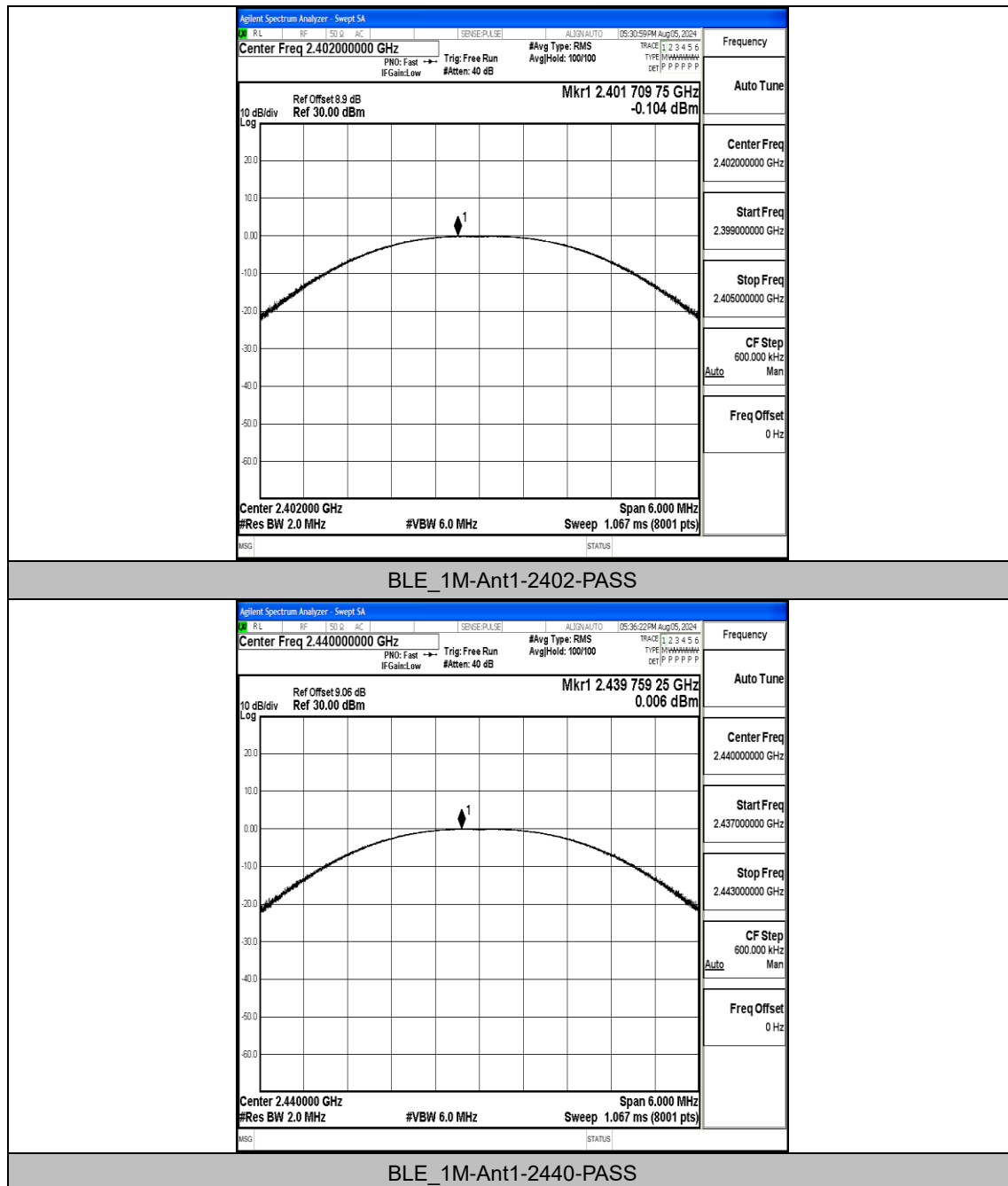


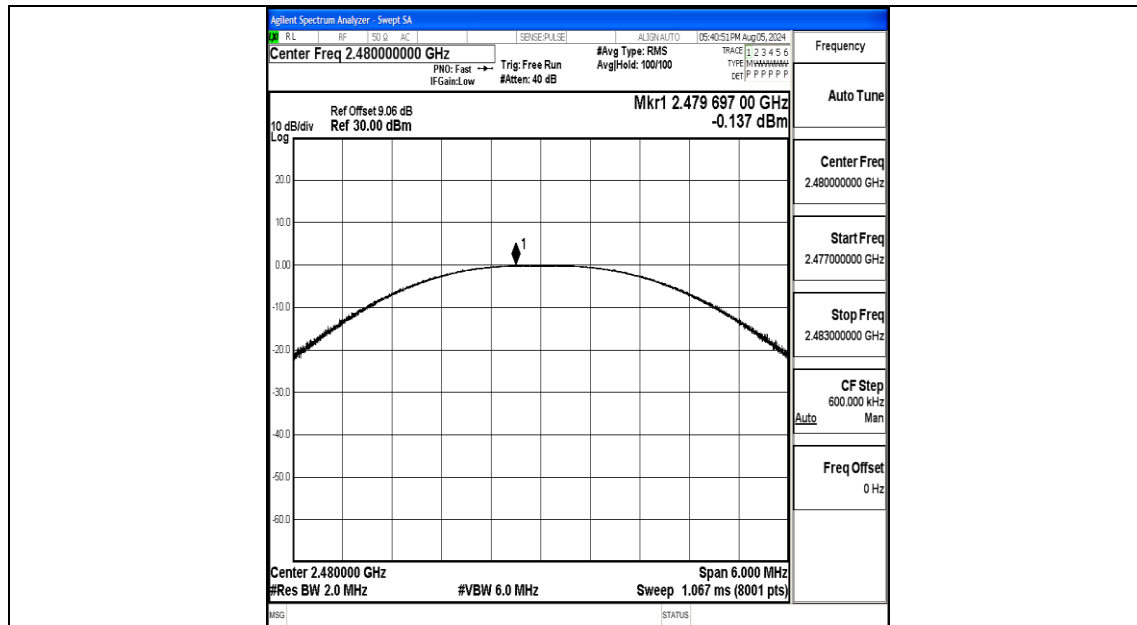
Appendix C: Maximum peak conducted output power

Test Result Peak

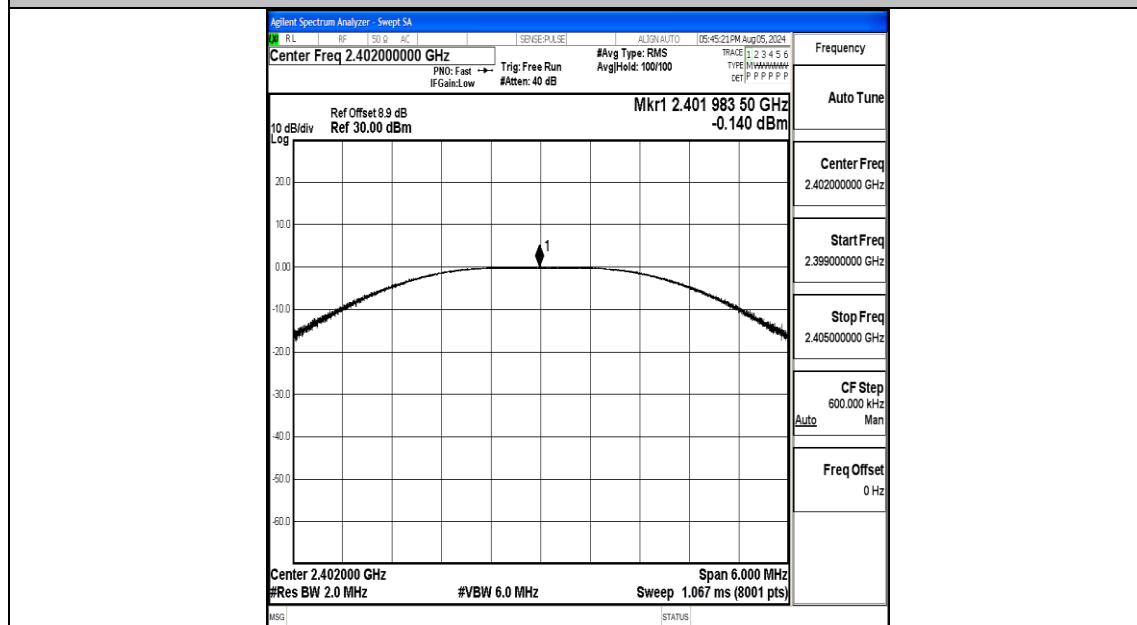
TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.10	≤30	PASS
BLE_1M	Ant1	2440	0.01	≤30	PASS
BLE_1M	Ant1	2480	-0.14	≤30	PASS
BLE_2M	Ant1	2402	-0.14	≤30	PASS
BLE_2M	Ant1	2440	-0.01	≤30	PASS
BLE_2M	Ant1	2480	-0.10	≤30	PASS

Test Graphs Peak

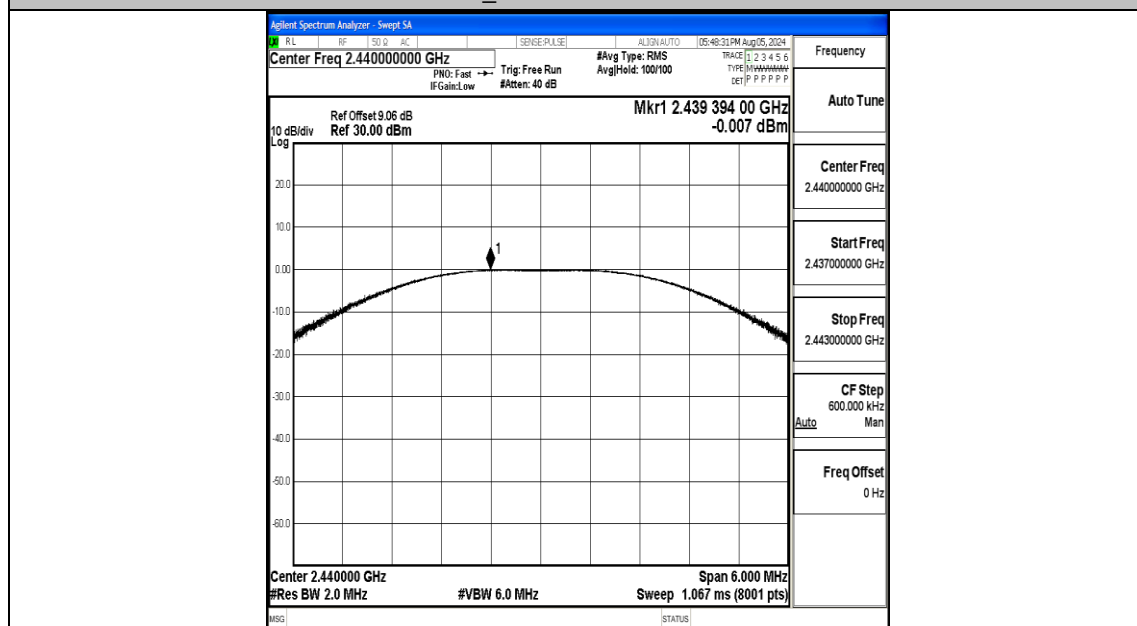




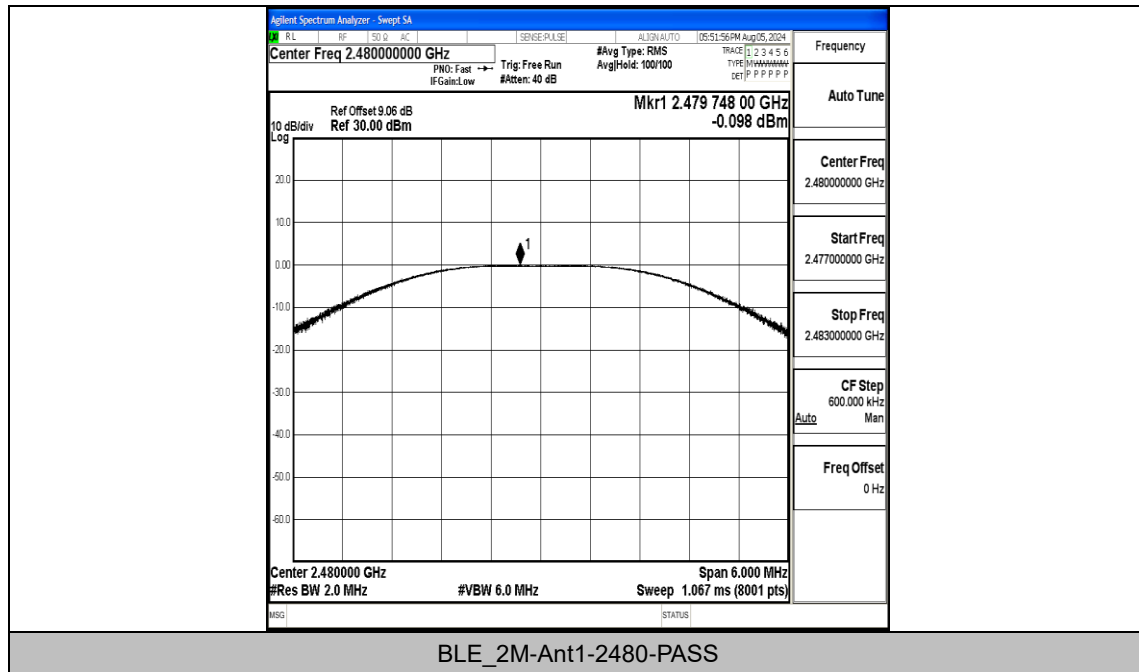
BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS

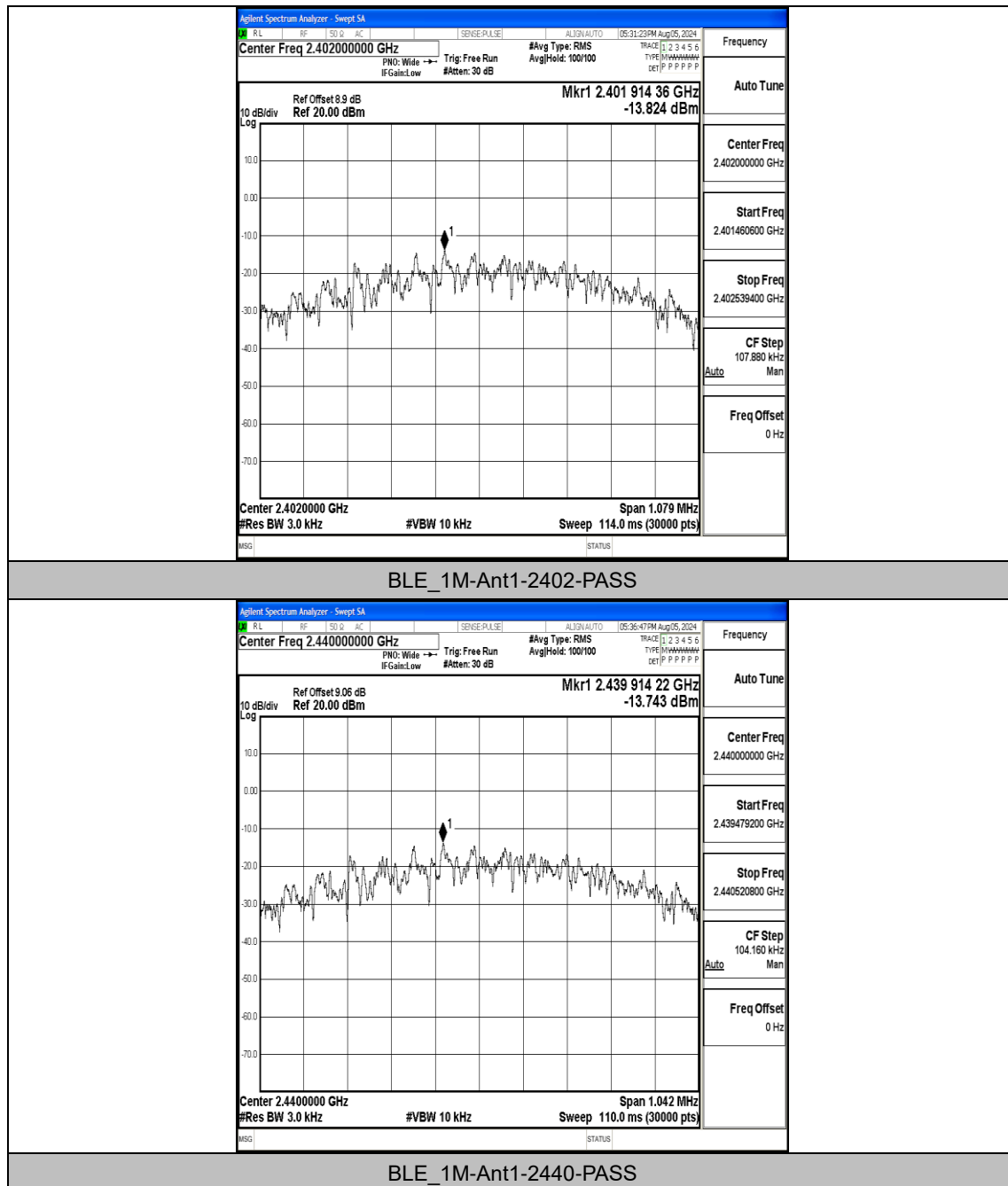


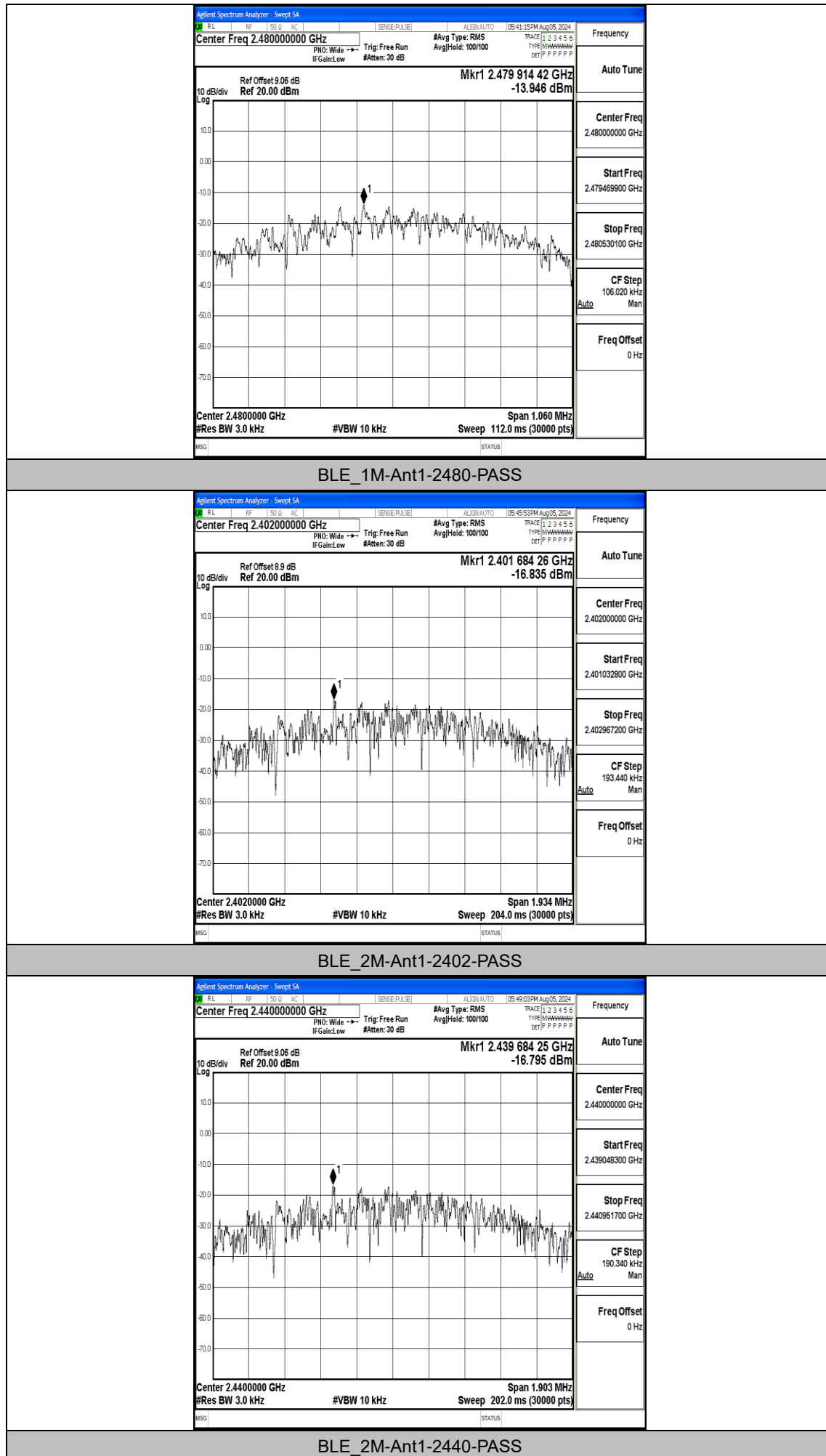
Appendix D: Maximum peak power spectral density

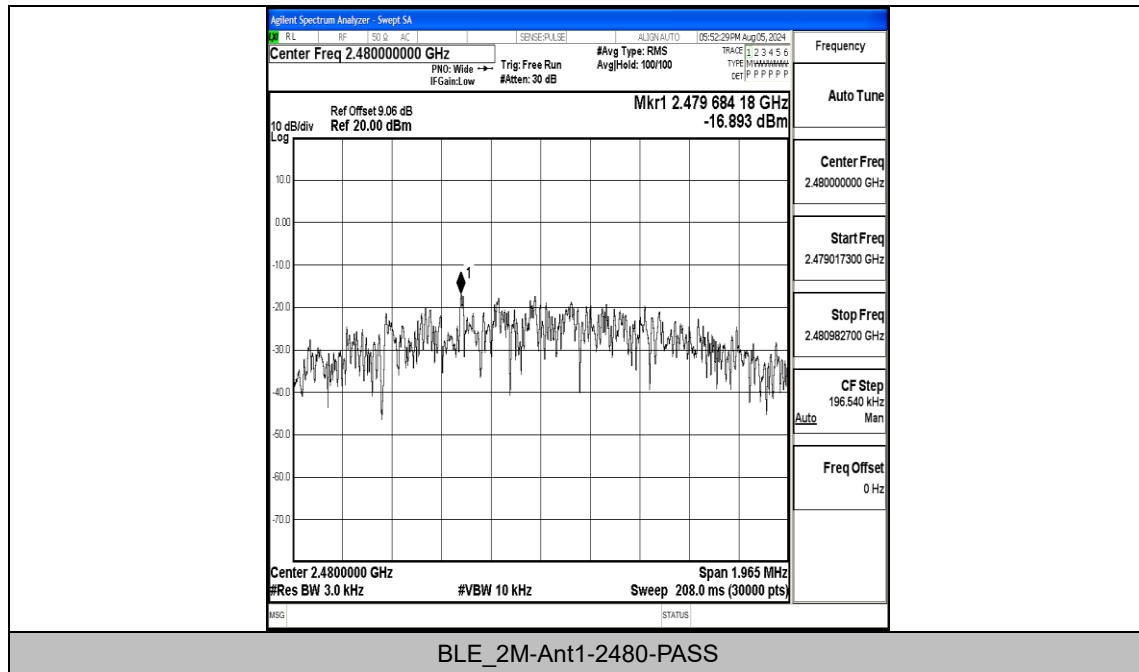
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.82	≤8.00	PASS
BLE_1M	Ant1	2440	-13.74	≤8.00	PASS
BLE_1M	Ant1	2480	-13.95	≤8.00	PASS
BLE_2M	Ant1	2402	-16.84	≤8.00	PASS
BLE_2M	Ant1	2440	-16.80	≤8.00	PASS
BLE_2M	Ant1	2480	-16.89	≤8.00	PASS

Test Graphs





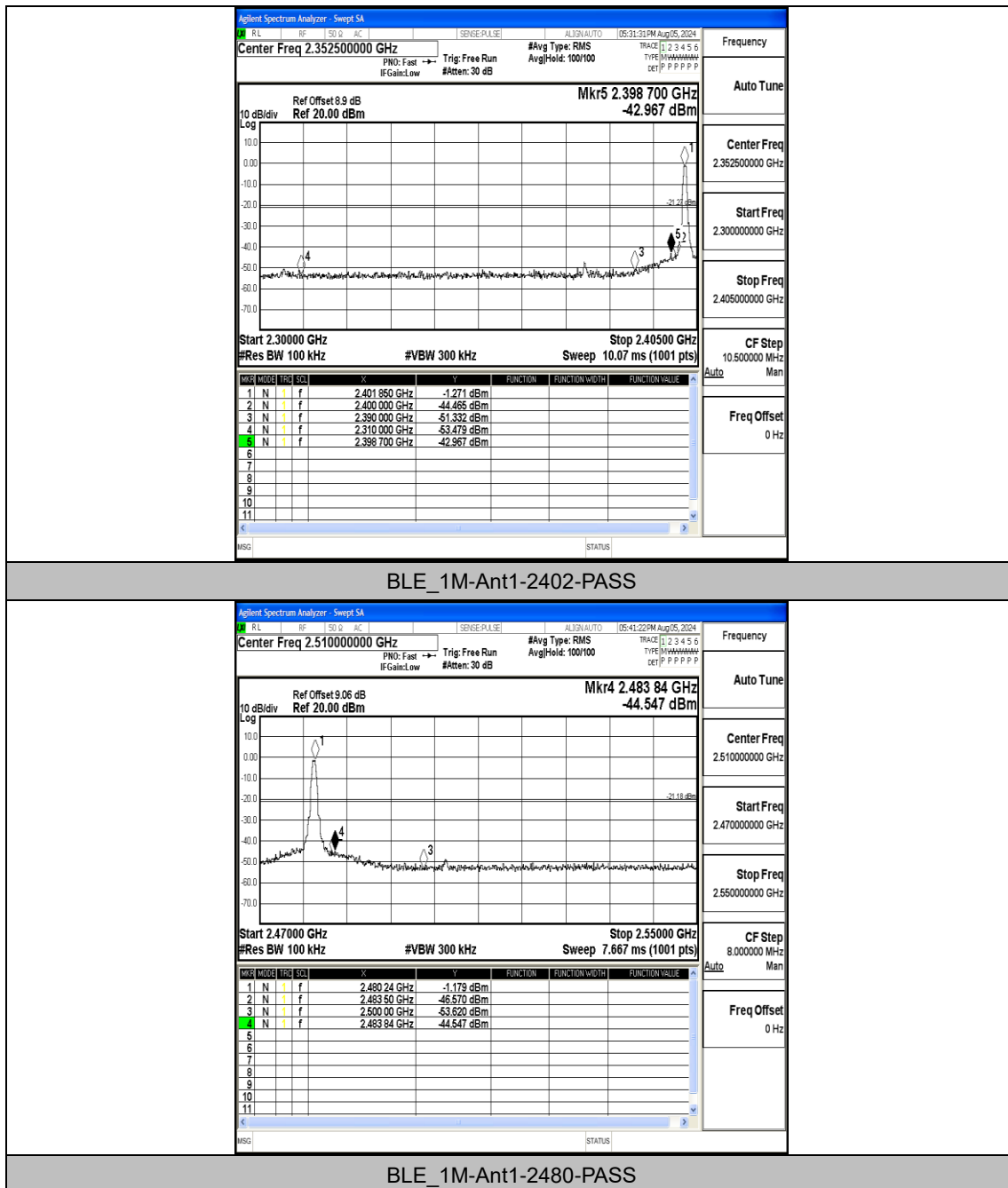


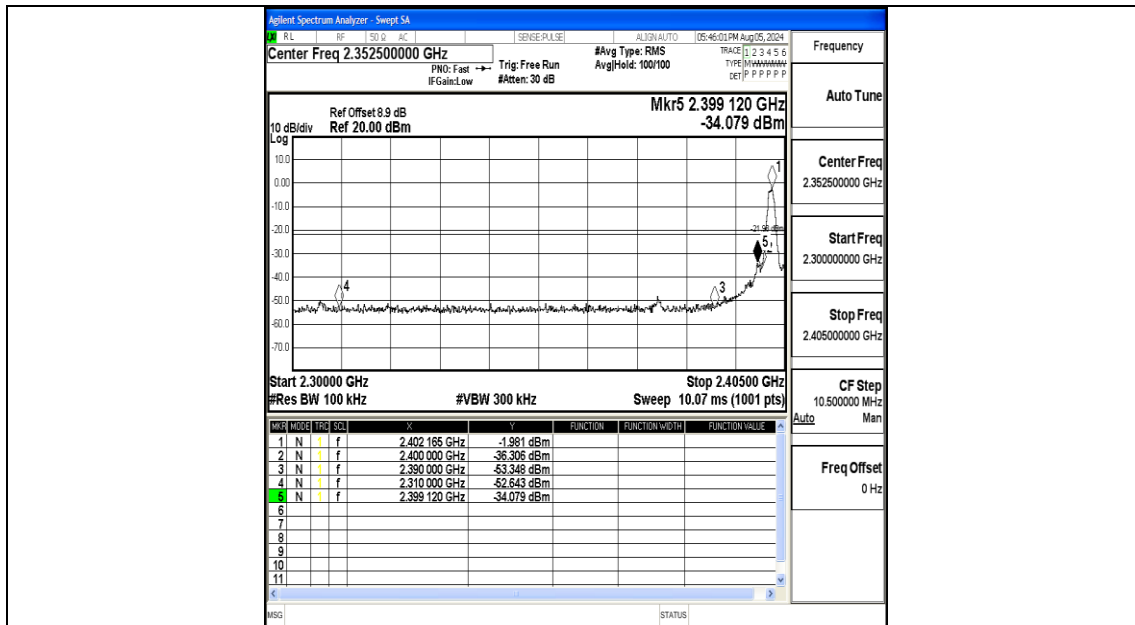
Appendix E: Band edge measurements

Test Result

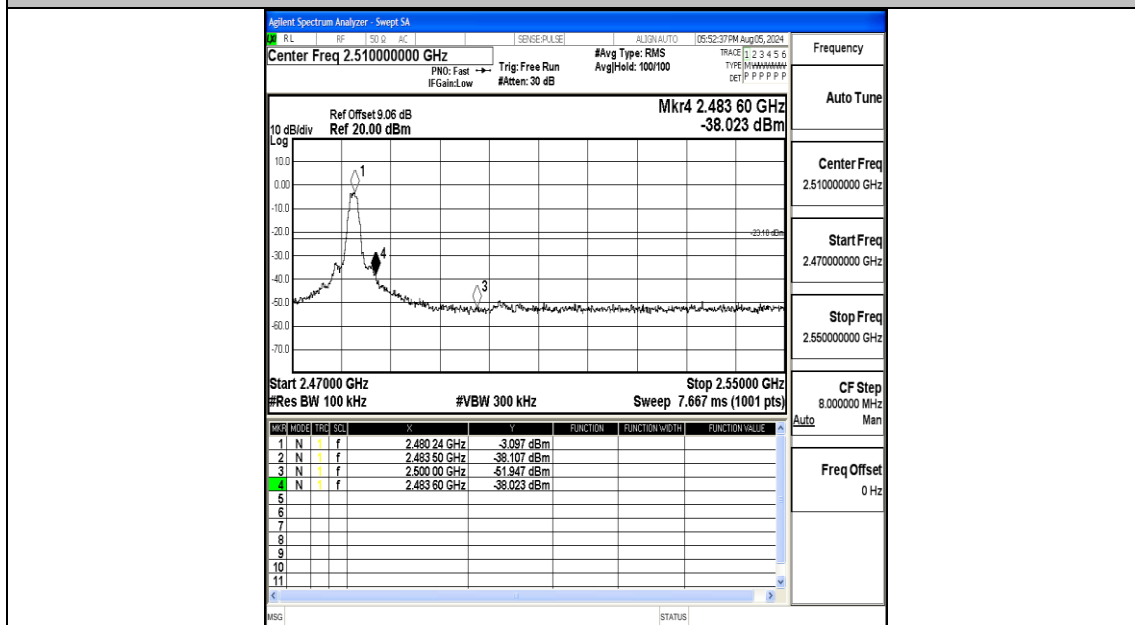
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.27	-42.97	≤-21.27	PASS
BLE_1M	Ant1	High	2480	-1.18	-44.55	≤-21.18	PASS
BLE_2M	Ant1	Low	2402	-1.98	-34.08	≤-21.98	PASS
BLE_2M	Ant1	High	2480	-3.10	-38.02	≤-23.1	PASS

Test Graphs





BLE_2M-Ant1-2402-PASS



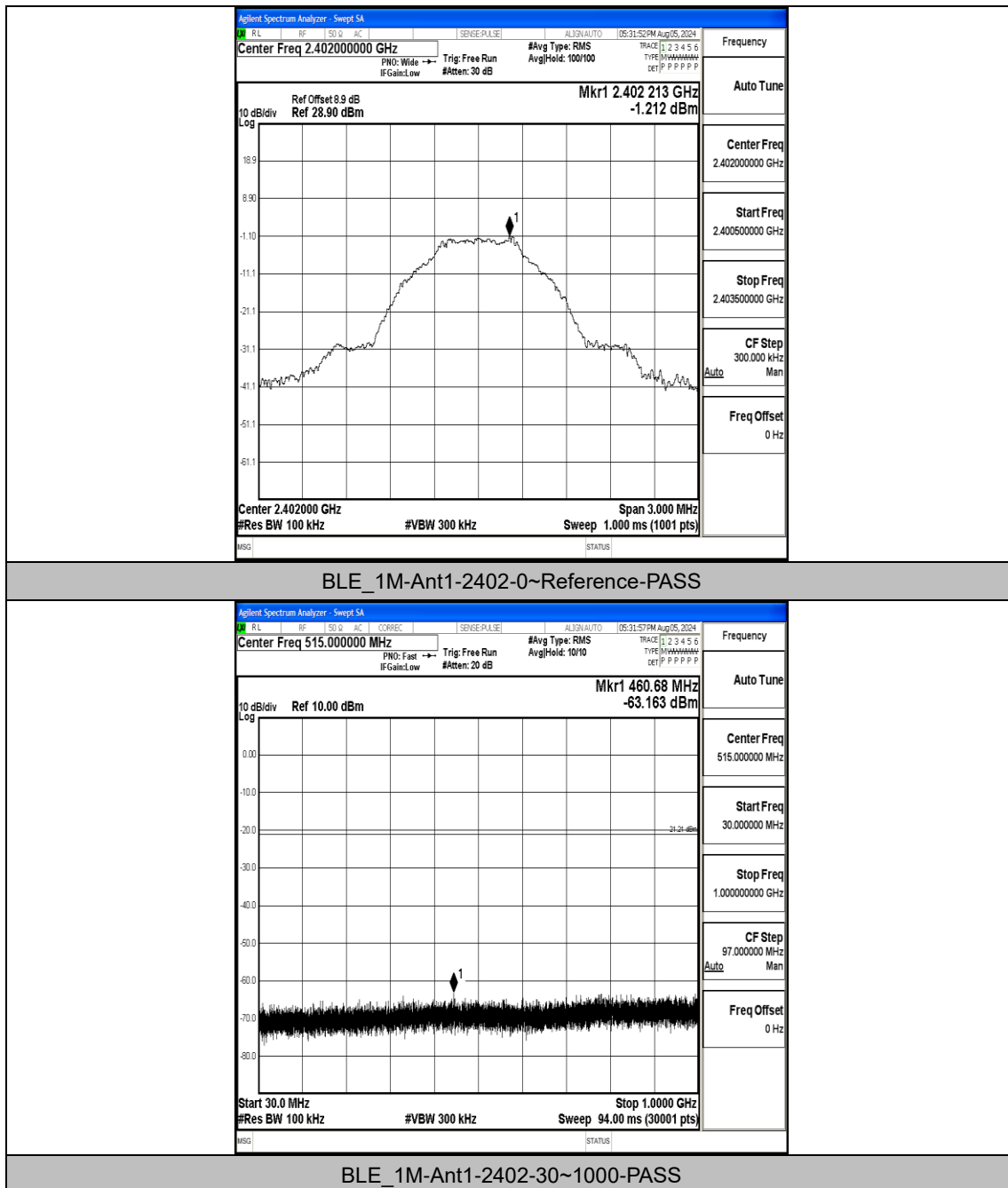
BLE_2M-Ant1-2480-PASS

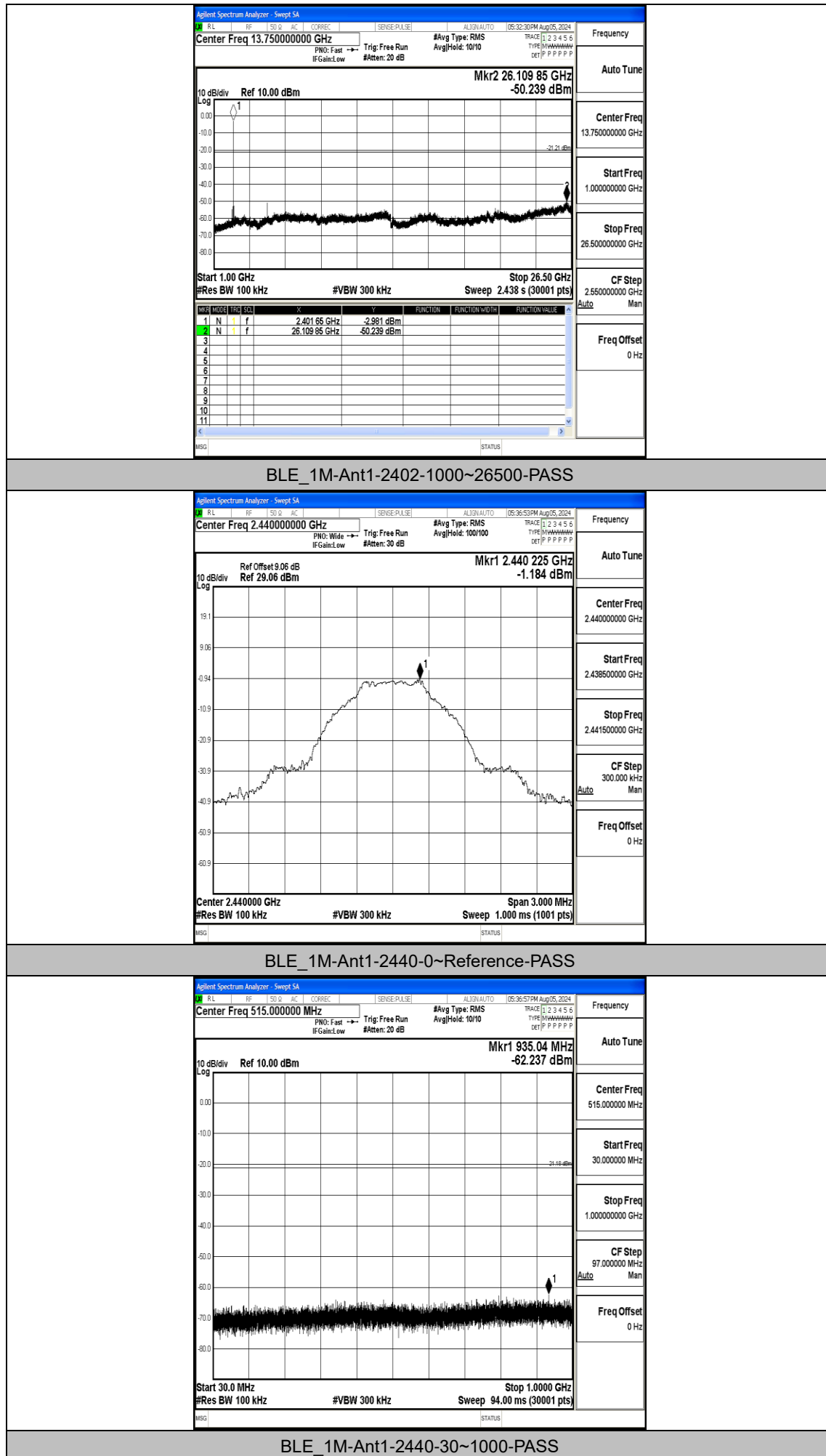
Appendix F: Conducted Spurious Emission

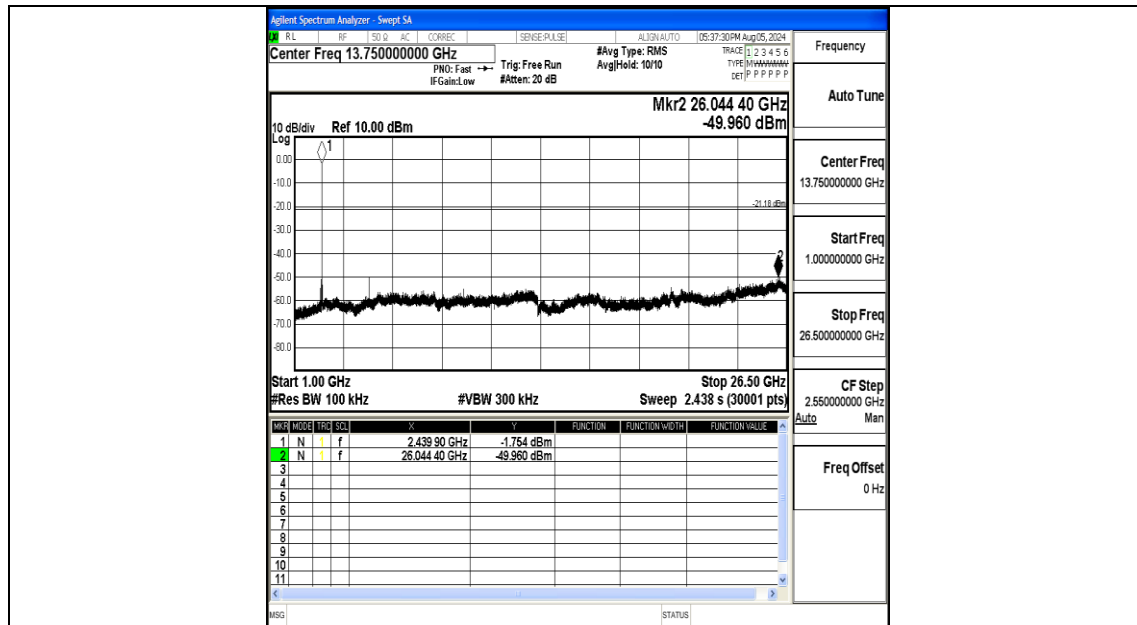
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-1.21	-1.21	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.21	-63.16	≤-21.21	PASS
BLE_1M	Ant1	2402	1000~26500	-1.21	-50.24	≤-21.21	PASS
BLE_1M	Ant1	2440	0~Reference	-1.18	-1.18	---	PASS
BLE_1M	Ant1	2440	30~1000	-1.18	-62.24	≤-21.18	PASS
BLE_1M	Ant1	2440	1000~26500	-1.18	-49.96	≤-21.18	PASS
BLE_1M	Ant1	2480	0~Reference	-1.19	-1.19	---	PASS
BLE_1M	Ant1	2480	30~1000	-1.19	-61.92	≤-21.19	PASS
BLE_1M	Ant1	2480	1000~26500	-1.19	-50.37	≤-21.19	PASS
BLE_2M	Ant1	2402	0~Reference	-2.53	-2.53	---	PASS
BLE_2M	Ant1	2402	30~1000	-2.53	-62.79	≤-22.53	PASS
BLE_2M	Ant1	2402	1000~26500	-2.53	-50.48	≤-22.53	PASS
BLE_2M	Ant1	2440	0~Reference	-2.60	-2.60	---	PASS
BLE_2M	Ant1	2440	30~1000	-2.60	-62.36	≤-22.6	PASS
BLE_2M	Ant1	2440	1000~26500	-2.60	-50.23	≤-22.6	PASS
BLE_2M	Ant1	2480	0~Reference	-2.73	-2.73	---	PASS
BLE_2M	Ant1	2480	30~1000	-2.73	-62.44	≤-22.73	PASS
BLE_2M	Ant1	2480	1000~26500	-2.73	-49.99	≤-22.73	PASS

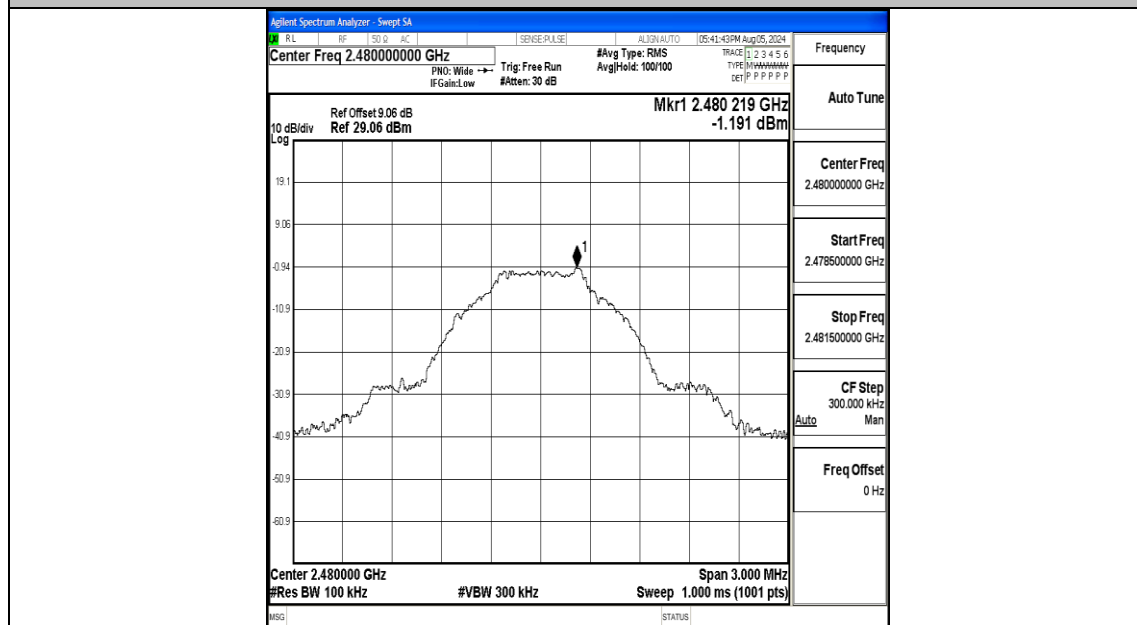
Test Graphs



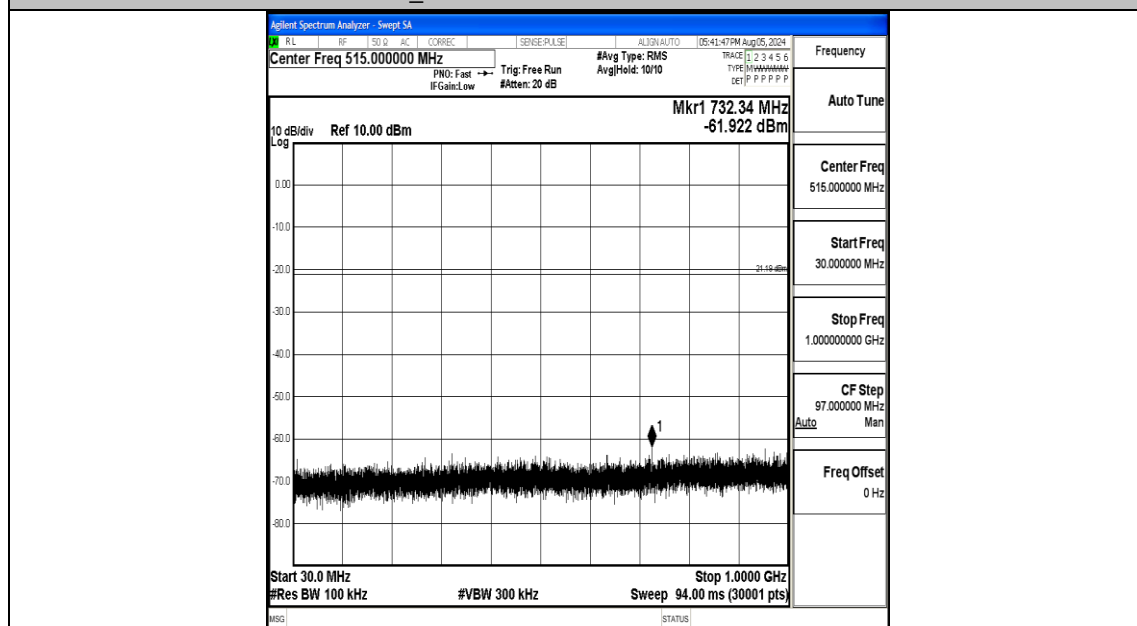




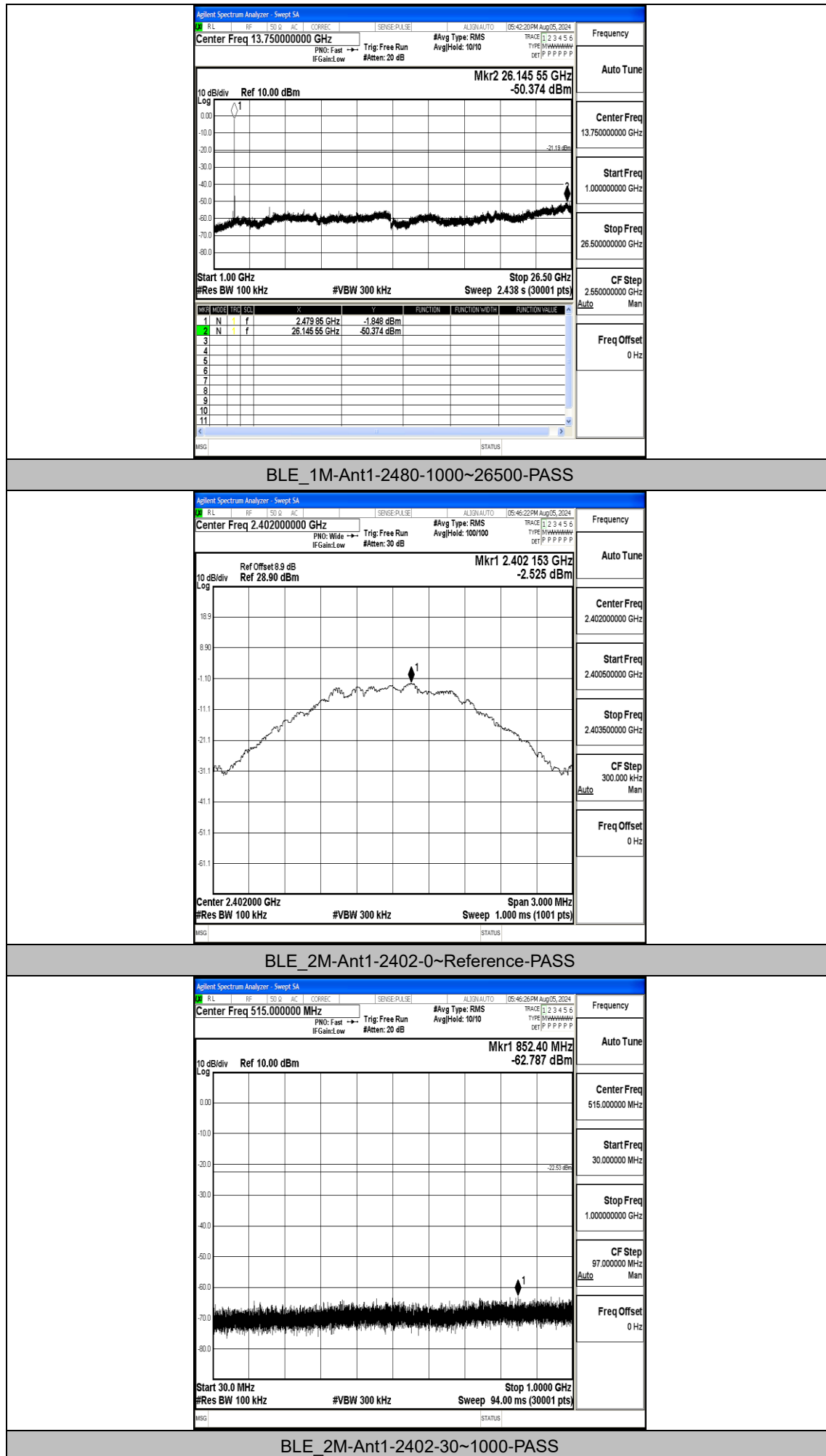
BLE_1M-Ant1-2440-1000~26500-PASS

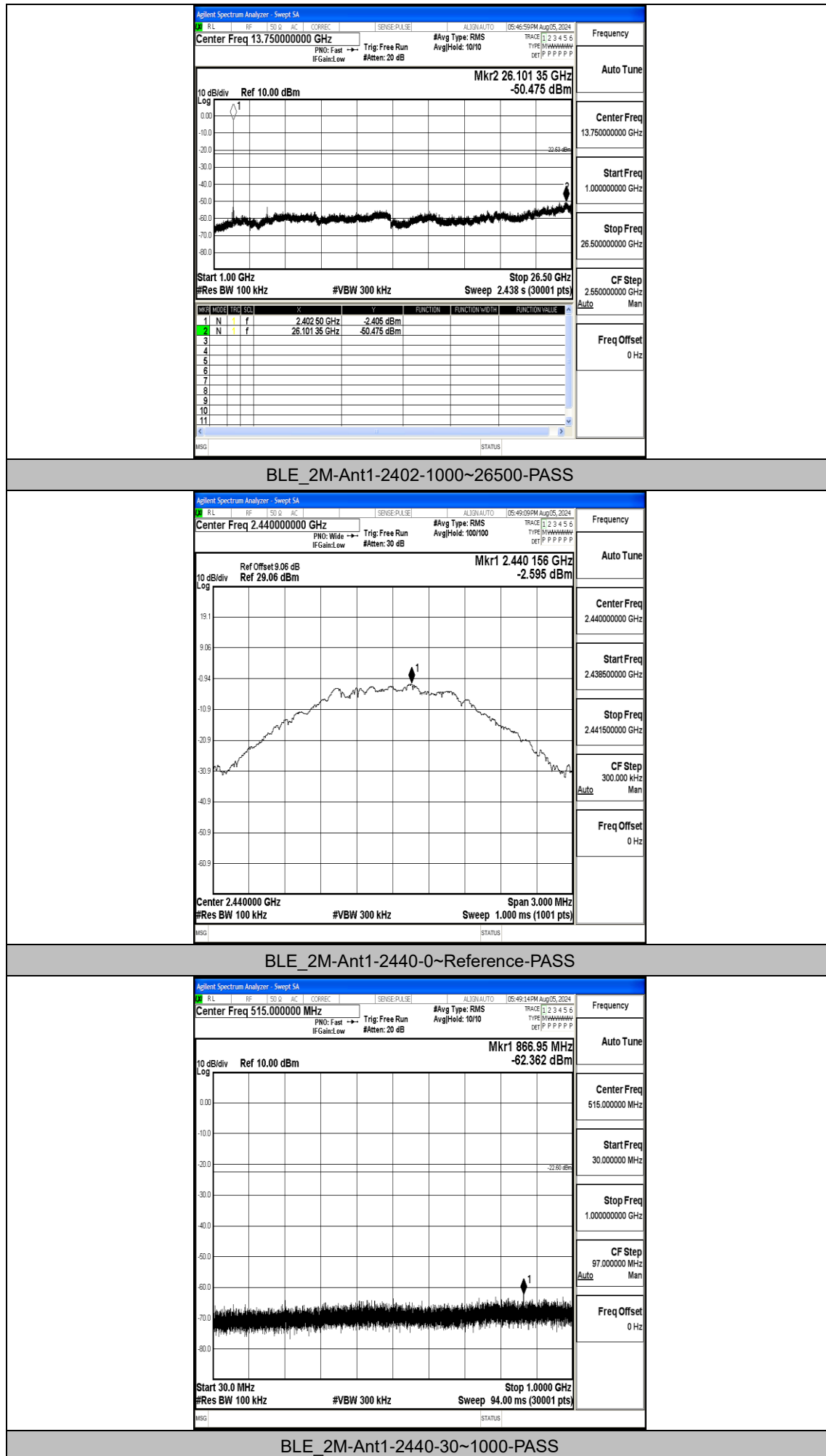


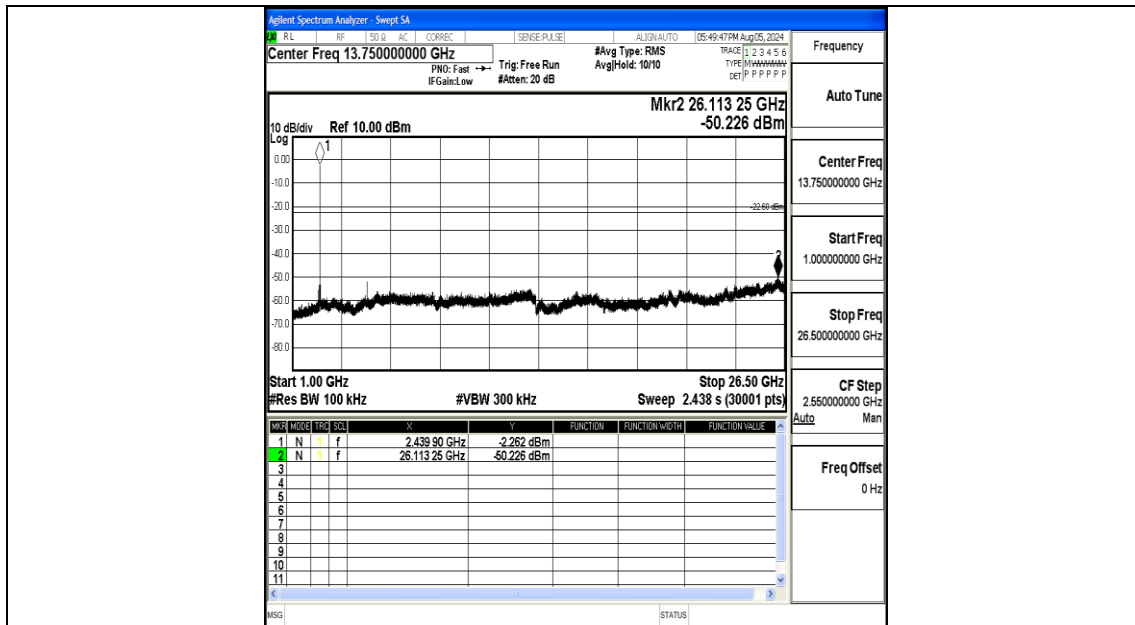
BLE_1M-Ant1-2480-0~Reference-PASS



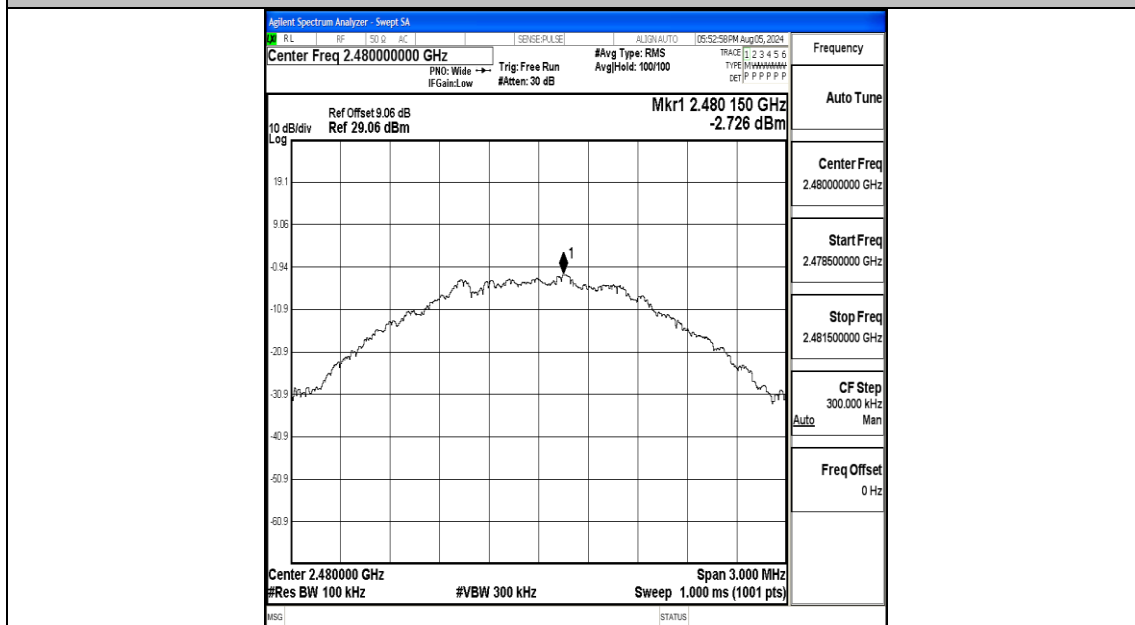
BLE_1M-Ant1-2480-30~1000-PASS



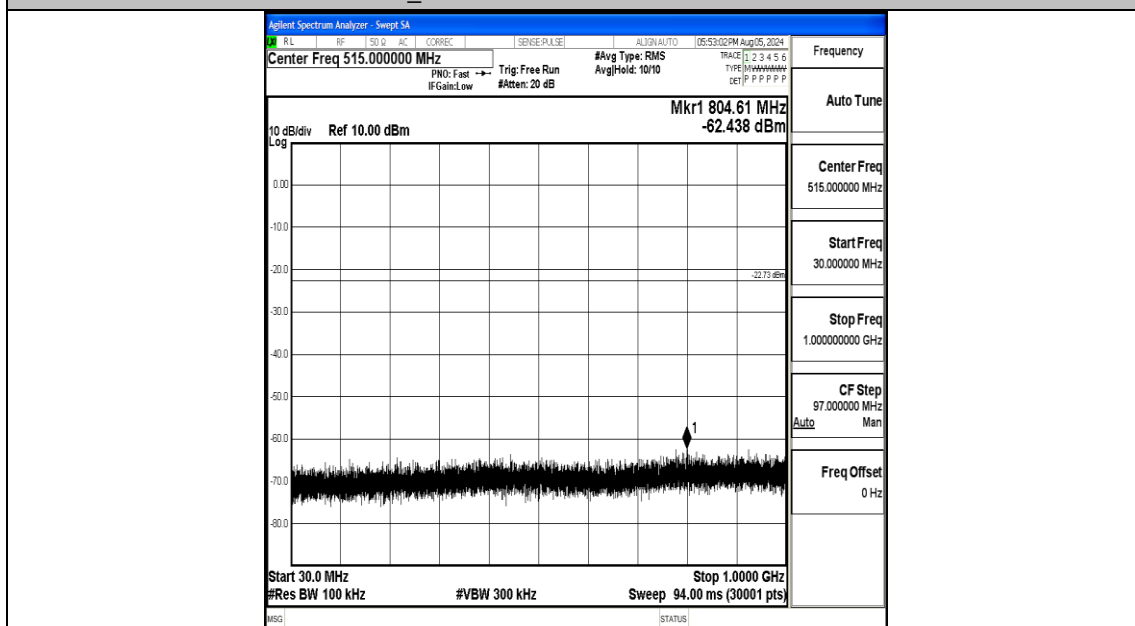




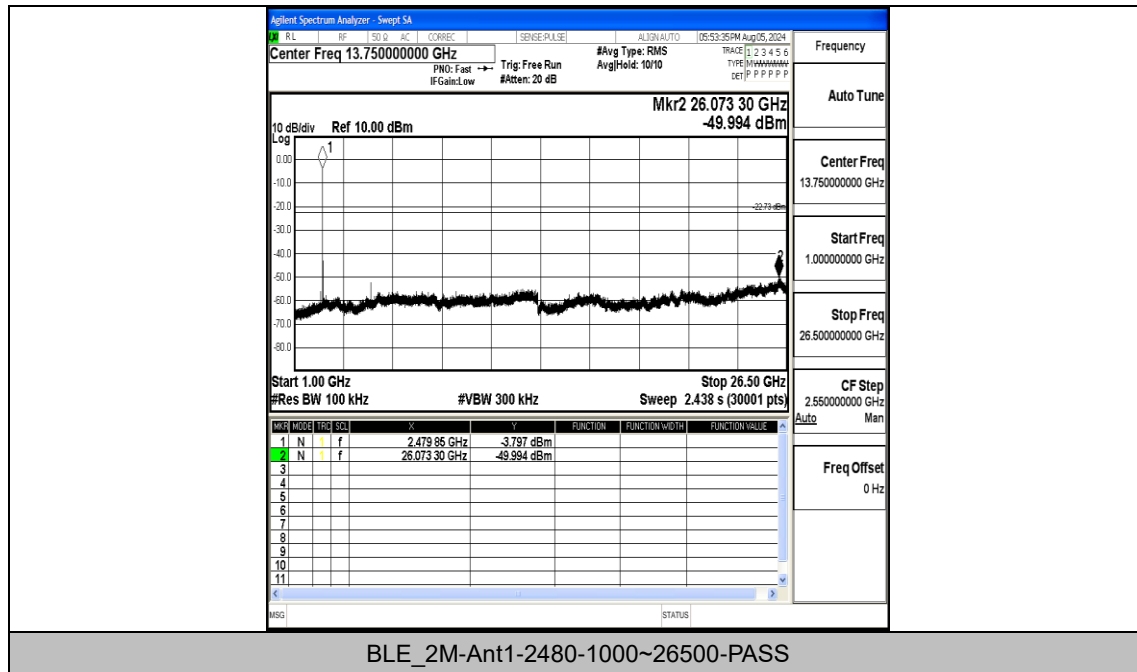
BLE_2M-Ant1-2440-1000~26500-PASS



BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-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	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

Test Graphs

