

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Driver Monitoring System

Trade Mark: N/A

Test Model: ECU AI+BLE

FCC ID: 2BR5F-ECUAIBLE

Environmental Conditions

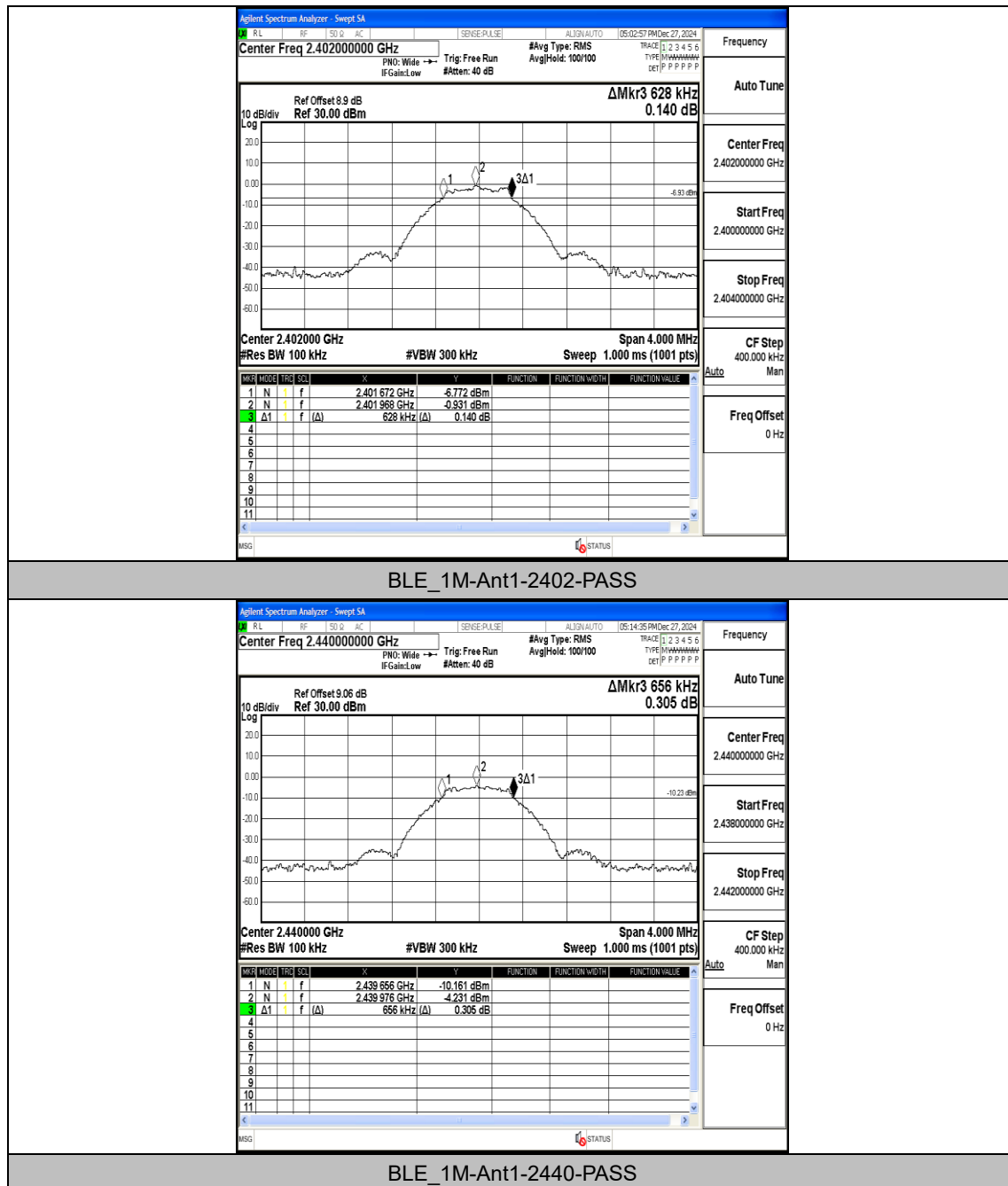
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

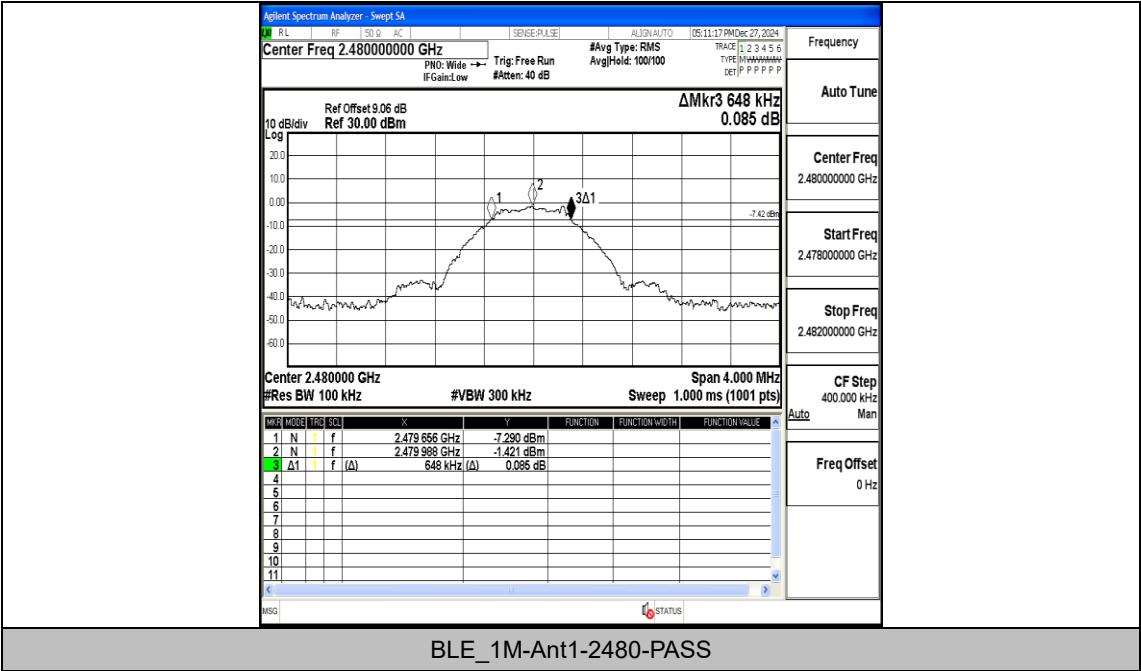
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.628	2401.672	2402.300	0.5	PASS
BLE_1M	Ant1	2440	0.656	2439.656	2440.312	0.5	PASS
BLE_1M	Ant1	2480	0.648	2479.656	2480.304	0.5	PASS

Test Graphs



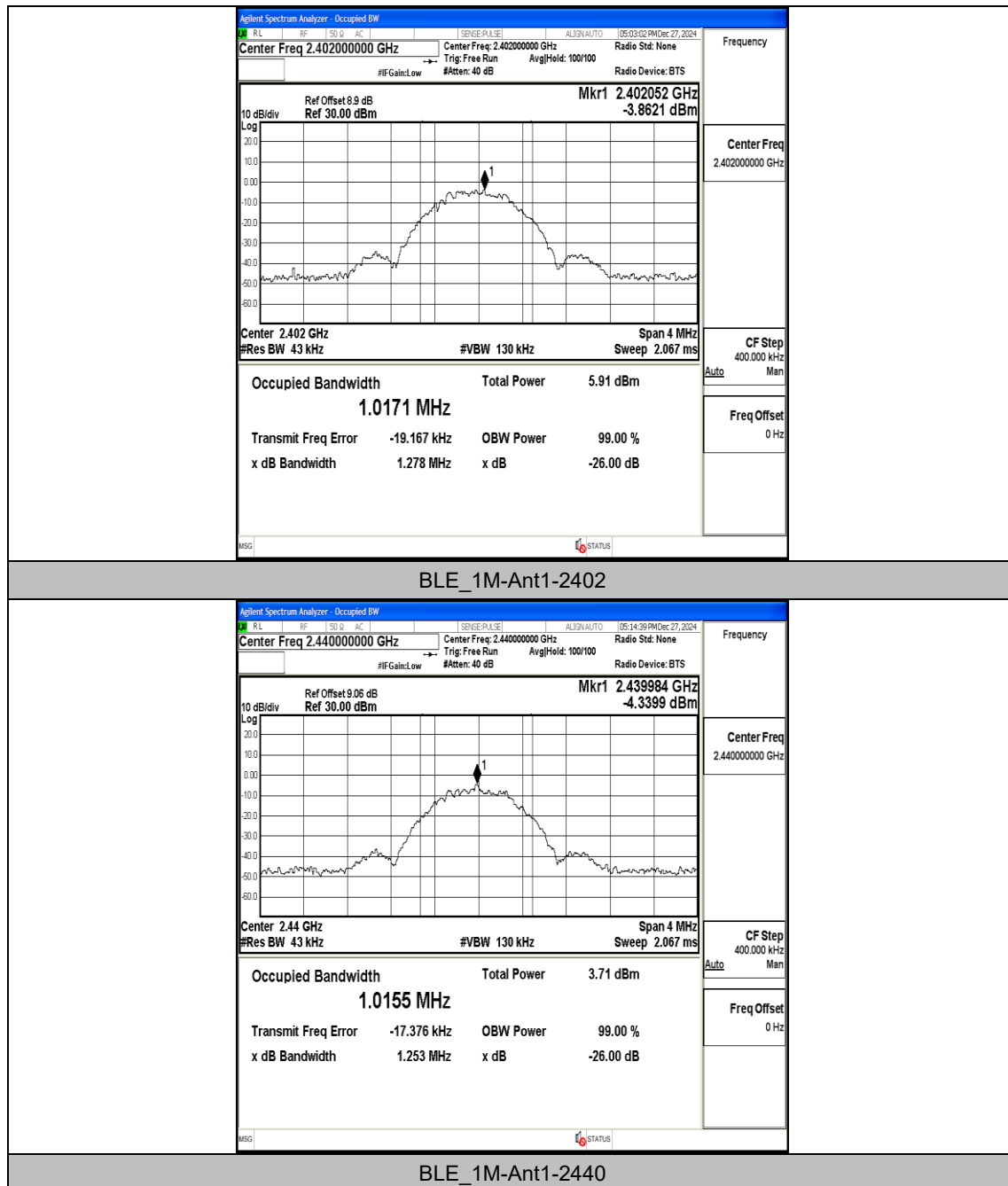


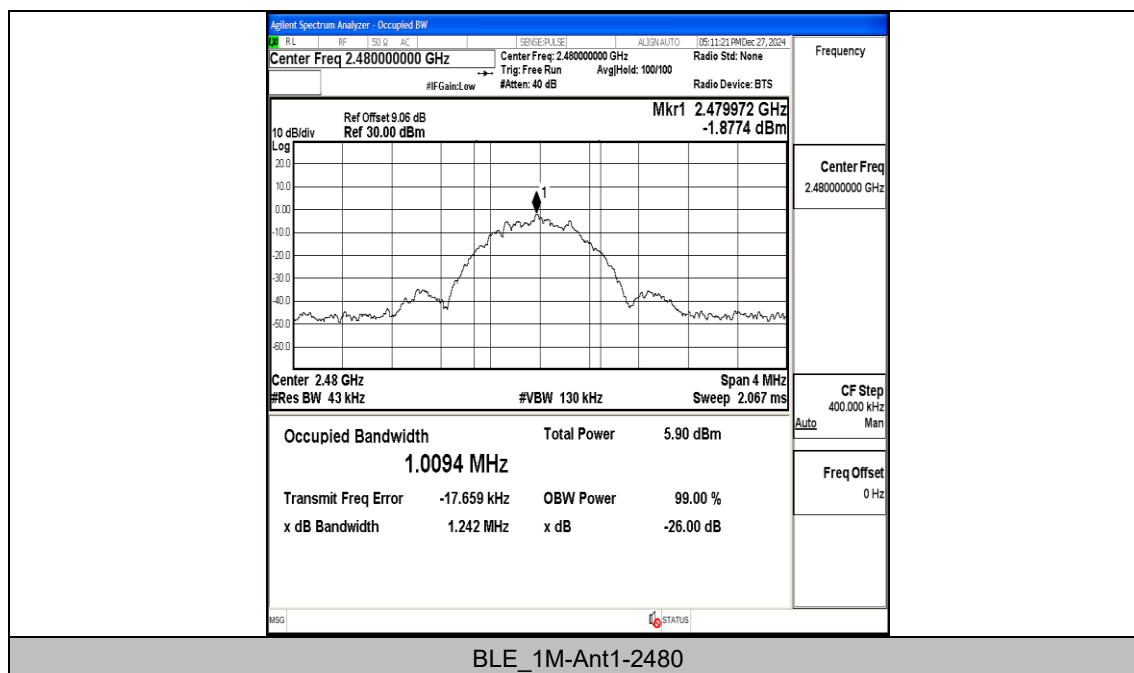
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.0171	2401.4723	2402.4894	---	---
BLE_1M	Ant1	2440	1.0155	2439.4749	2440.4904	---	---
BLE_1M	Ant1	2480	1.0094	2479.4776	2480.4870	---	---

Test Graphs



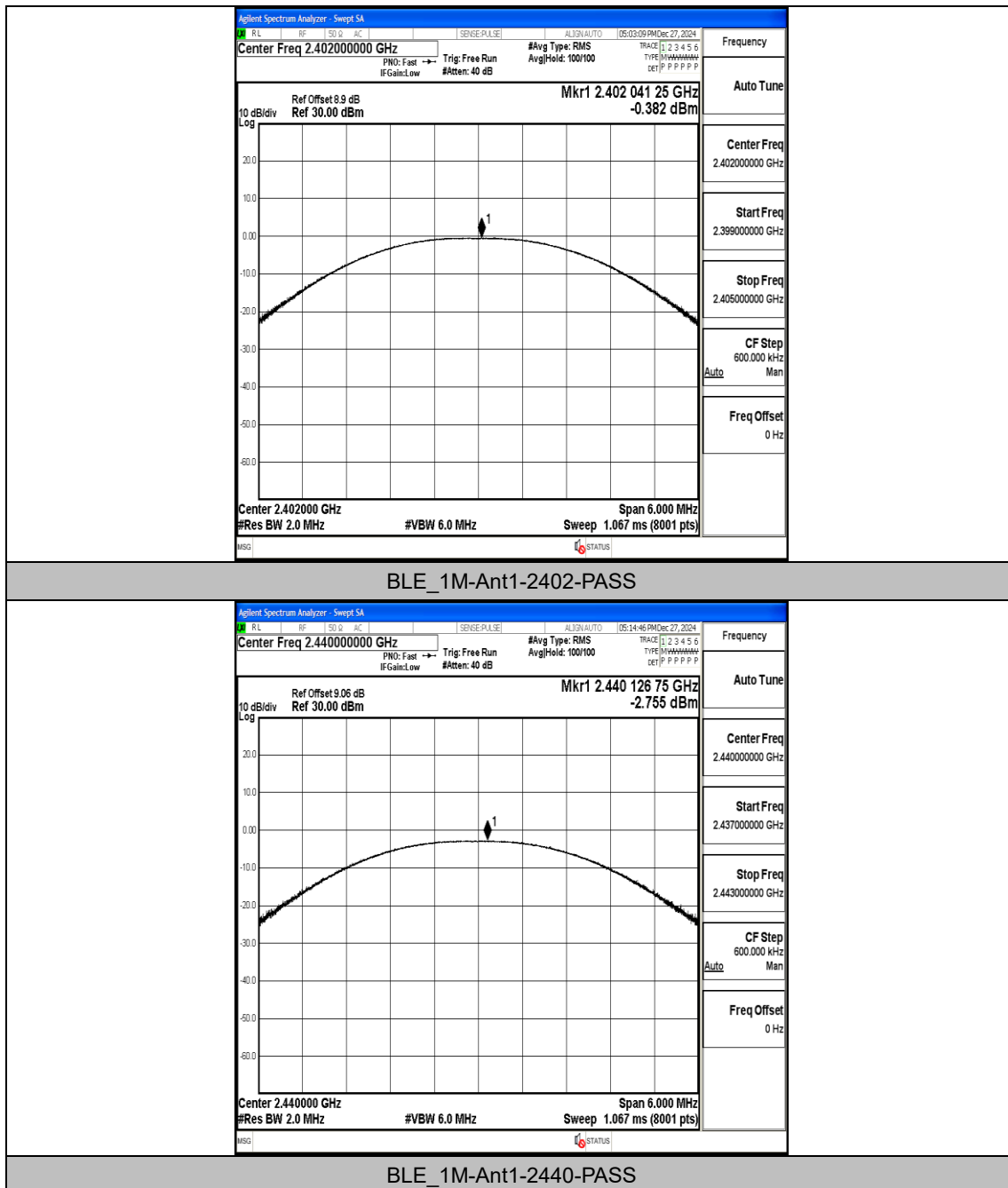


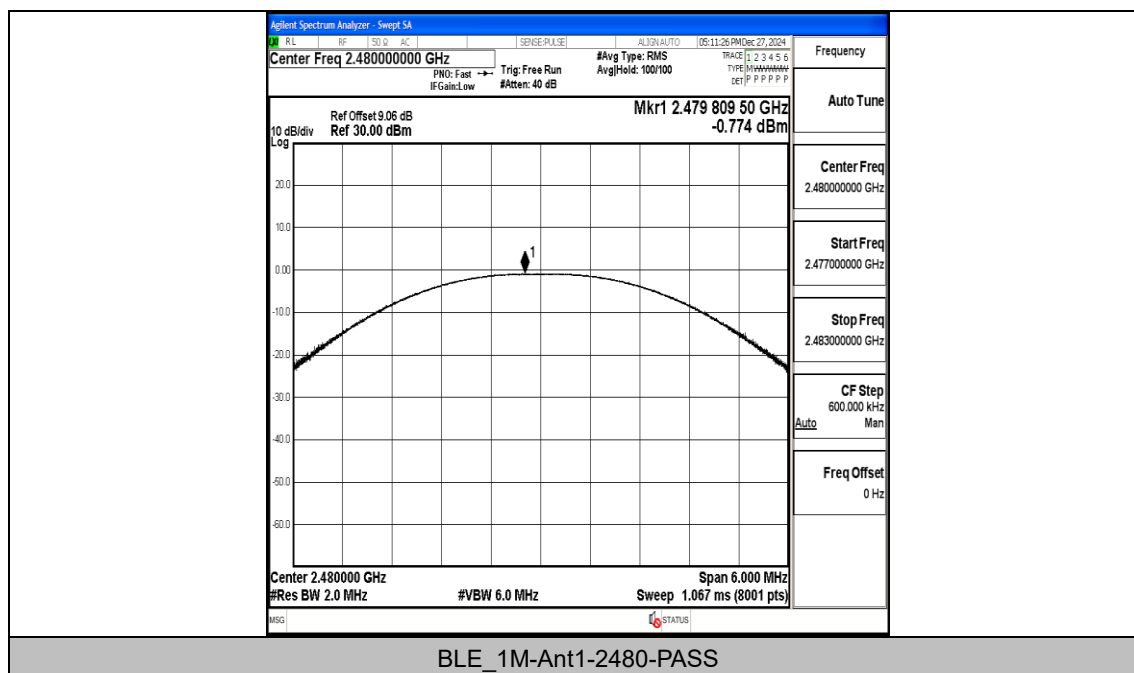
Appendix C: Maximum peak conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE_1M	Ant1	2402	-0.38	≤30	PASS
BLE_1M	Ant1	2440	-2.76	≤30	PASS
BLE_1M	Ant1	2480	-0.77	≤30	PASS

Test Graphs Peak



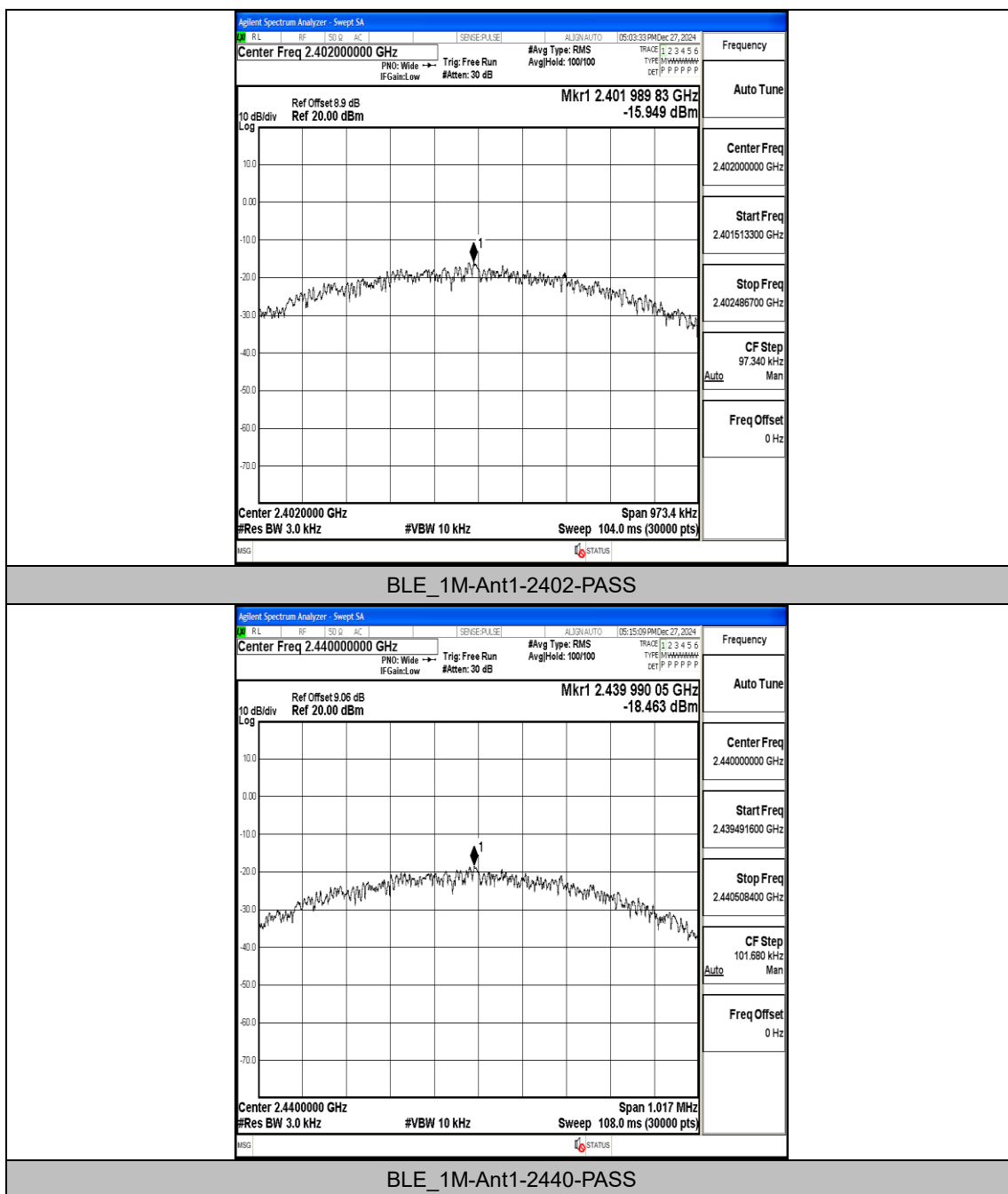


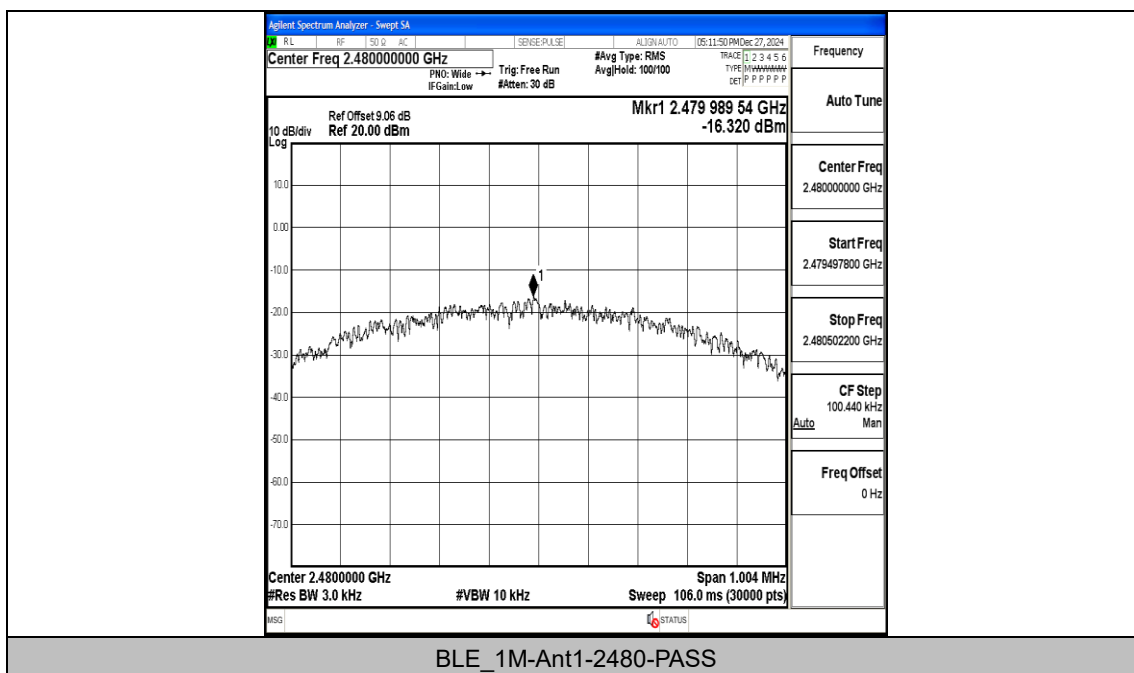
Appendix D: Maximum peak power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.95	≤8.00	PASS
BLE_1M	Ant1	2440	-18.46	≤8.00	PASS
BLE_1M	Ant1	2480	-16.32	≤8.00	PASS

Test Graphs



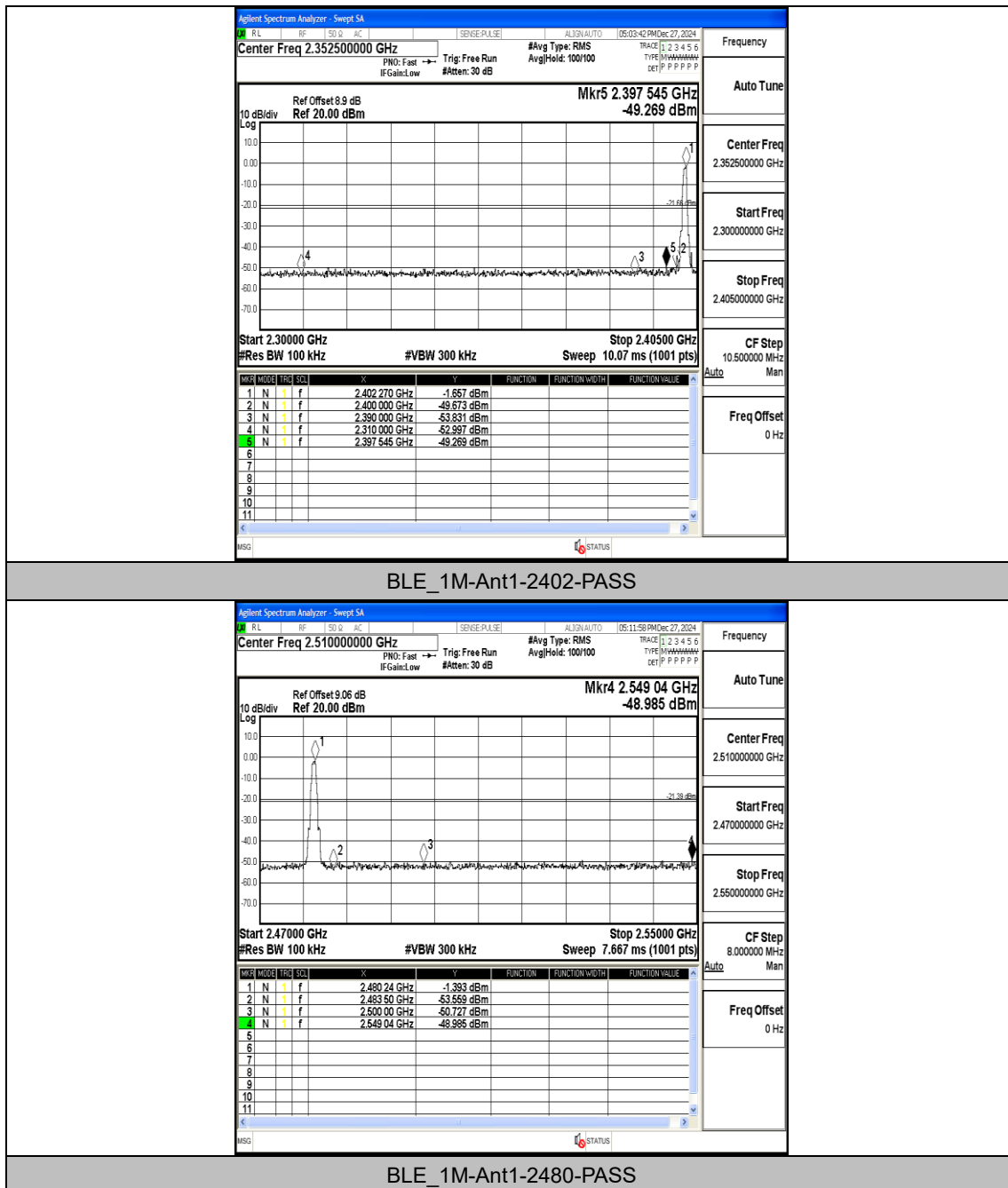


Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.66	-49.27	≤ -21.66	PASS
BLE_1M	Ant1	High	2480	-1.39	-48.99	≤ -21.39	PASS

Test Graphs

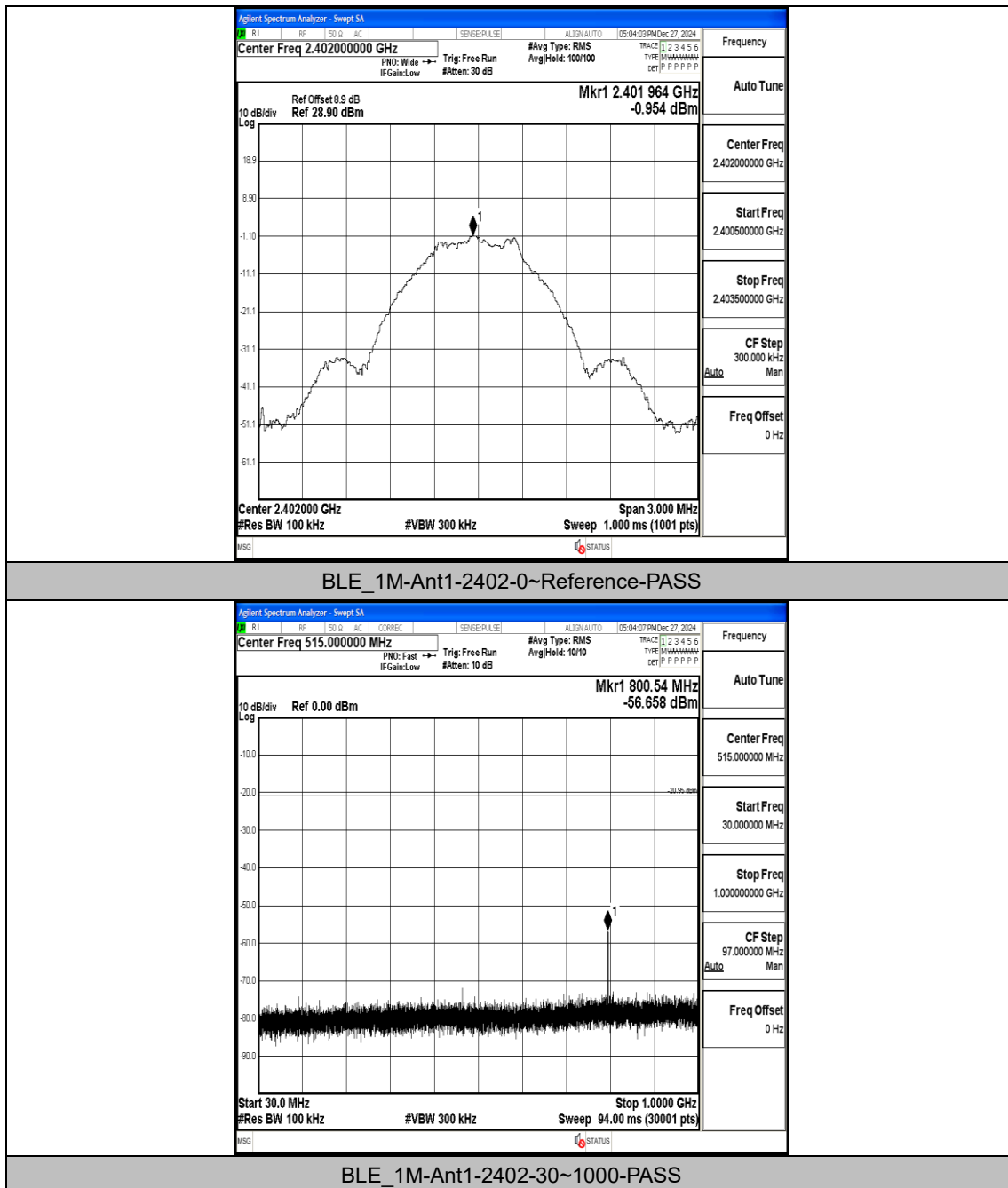


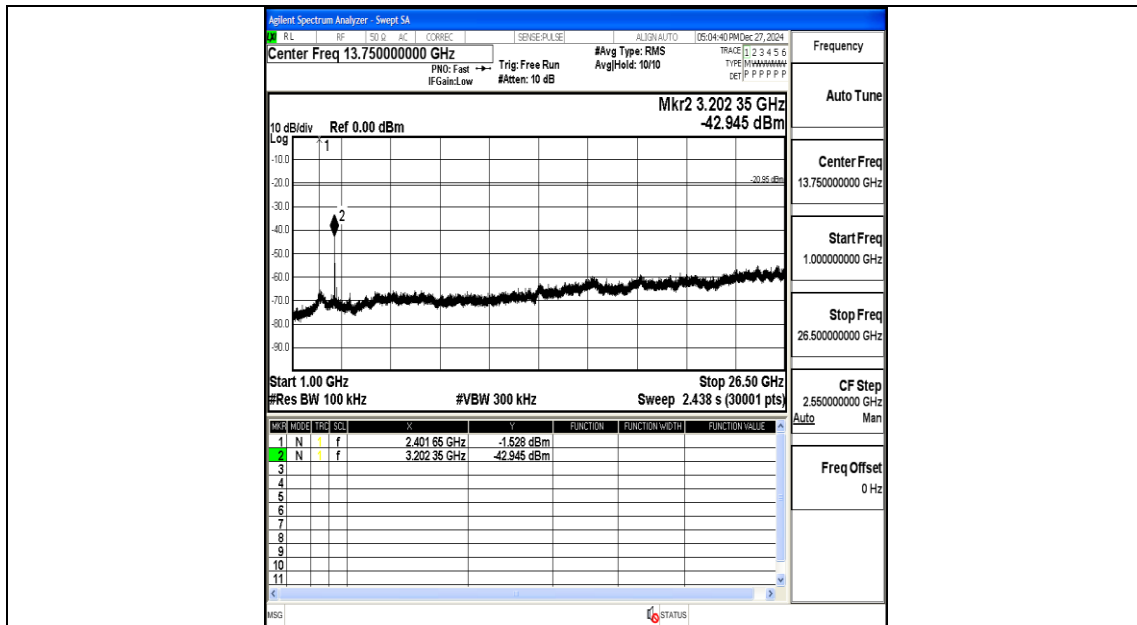
Appendix F: Conducted Spurious Emission

Test Result

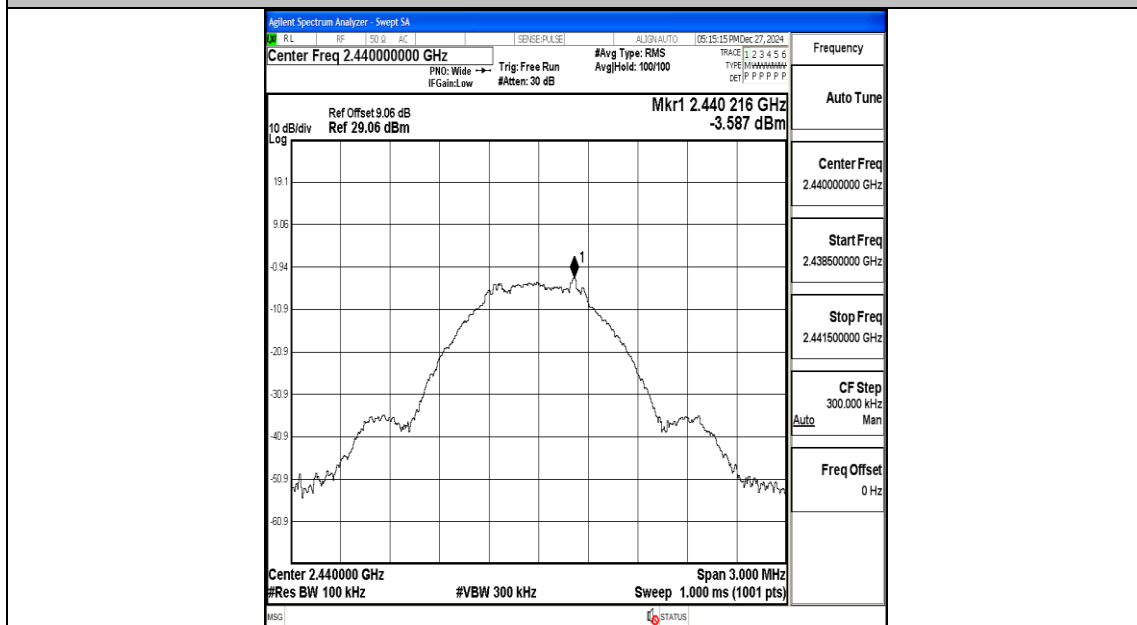
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.95	-0.95	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.95	-56.66	≤-20.95	PASS
BLE_1M	Ant1	2402	1000~26500	-0.95	-42.95	≤-20.95	PASS
BLE_1M	Ant1	2440	0~Reference	-3.59	-3.59	---	PASS
BLE_1M	Ant1	2440	30~1000	-3.59	-56.01	≤-23.59	PASS
BLE_1M	Ant1	2440	1000~26500	-3.59	-45.04	≤-23.59	PASS
BLE_1M	Ant1	2480	0~Reference	-2.15	-2.15	---	PASS
BLE_1M	Ant1	2480	30~1000	-2.15	-56.32	≤-22.15	PASS
BLE_1M	Ant1	2480	1000~26500	-2.15	-46.02	≤-22.15	PASS

Test Graphs

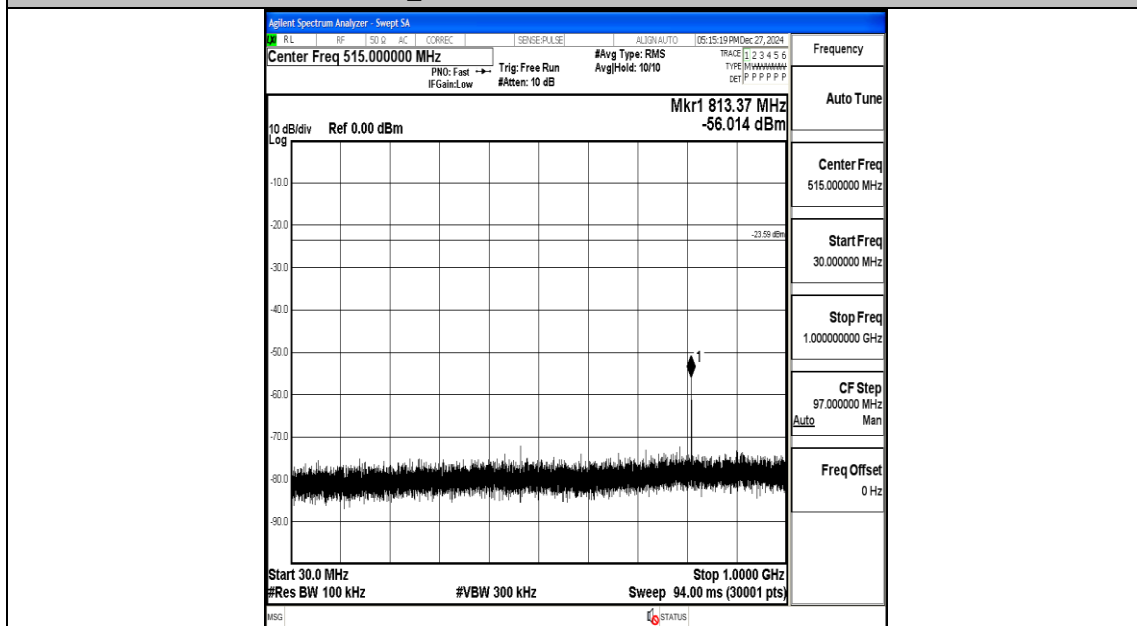




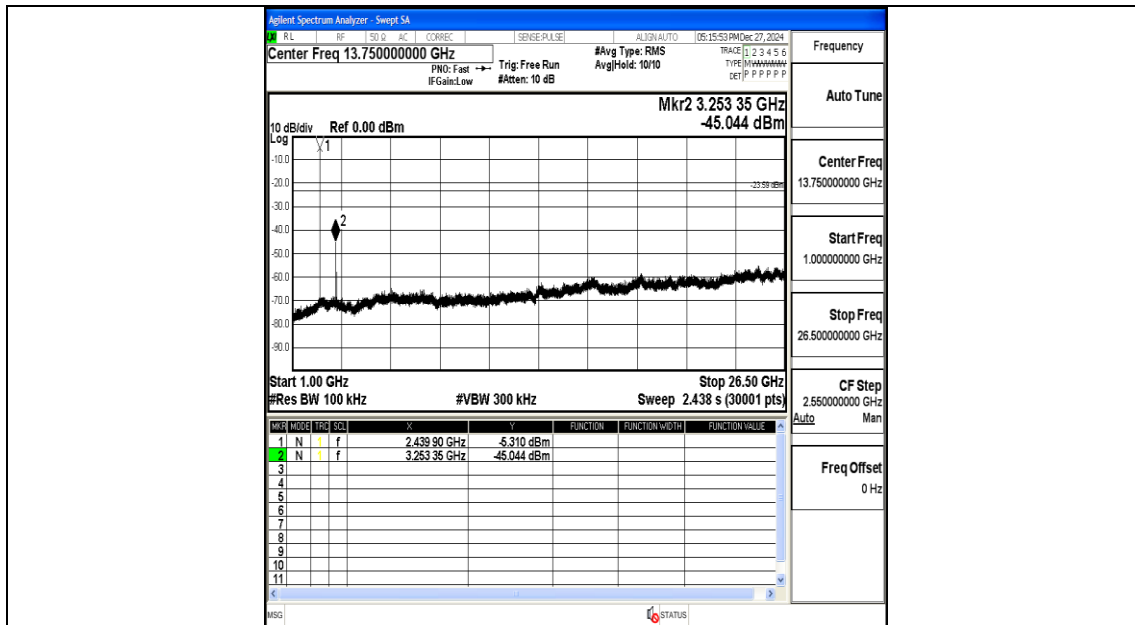
BLE_1M-Ant1-2402-1000~26500-PASS



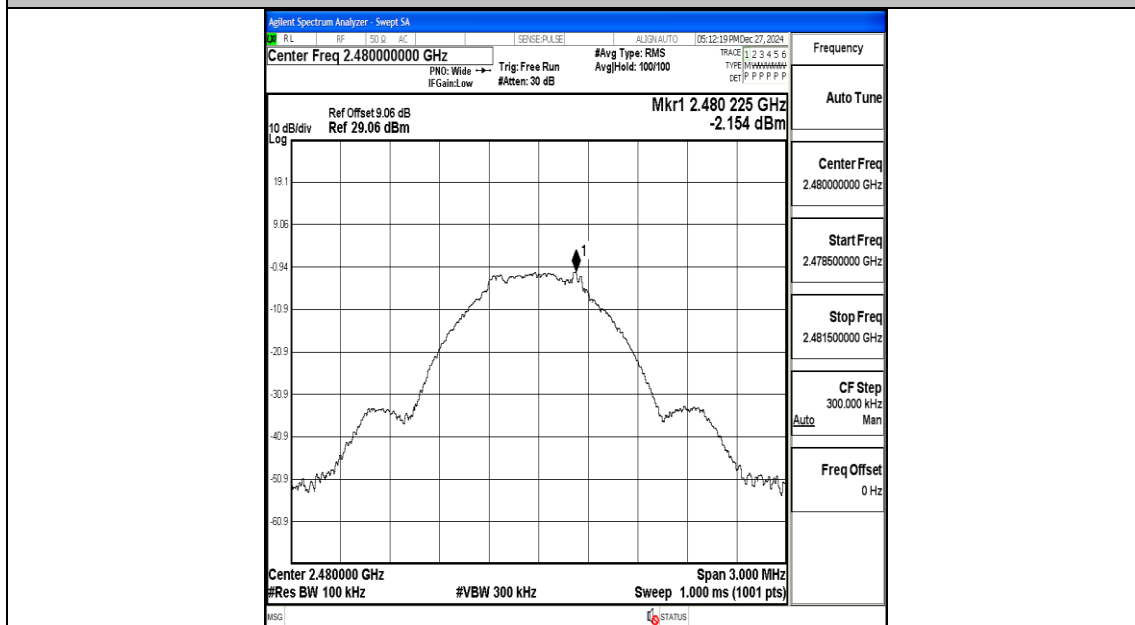
BLE_1M-Ant1-2440-0~Reference-PASS



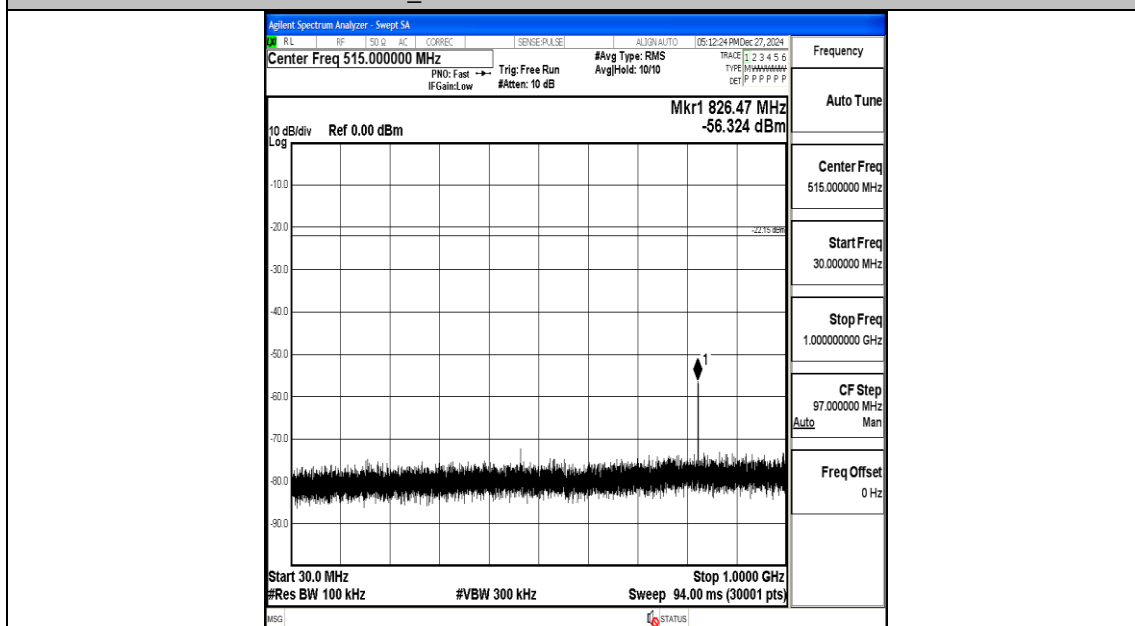
BLE_1M-Ant1-2440-30~1000-PASS



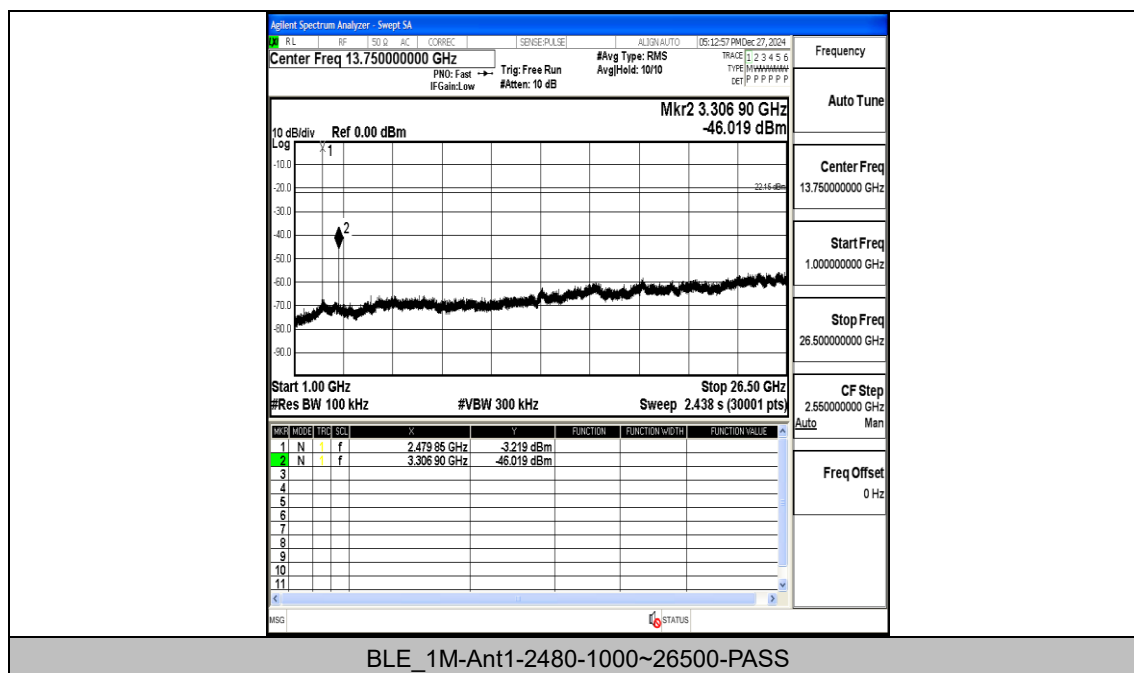
BLE_1M-Ant1-2440-1000~26500-PASS



BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
BLE_1M	Ant1	2402	2.10	2.50	84.00	0.76
BLE_1M	Ant1	2440	2.09	2.50	83.60	0.78
BLE_1M	Ant1	2480	2.09	2.50	83.60	0.78

Test Graphs

