

Appendix for Bluetooth BLE Mode

Product Name: Pallet tag

Model No: PLT005

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.676	2401.668	2402.344	0.5	PASS
BLE_1M	Ant1	2440	0.684	2439.644	2440.328	0.5	PASS
BLE_1M	Ant1	2480	0.708	2479.632	2480.340	0.5	PASS
BLE_2M	Ant1	2402	1.108	2401.436	2402.544	0.5	PASS
BLE_2M	Ant1	2440	1.128	2439.436	2440.564	0.5	PASS
BLE_2M	Ant1	2480	1.112	2479.452	2480.564	0.5	PASS

Test Graphs



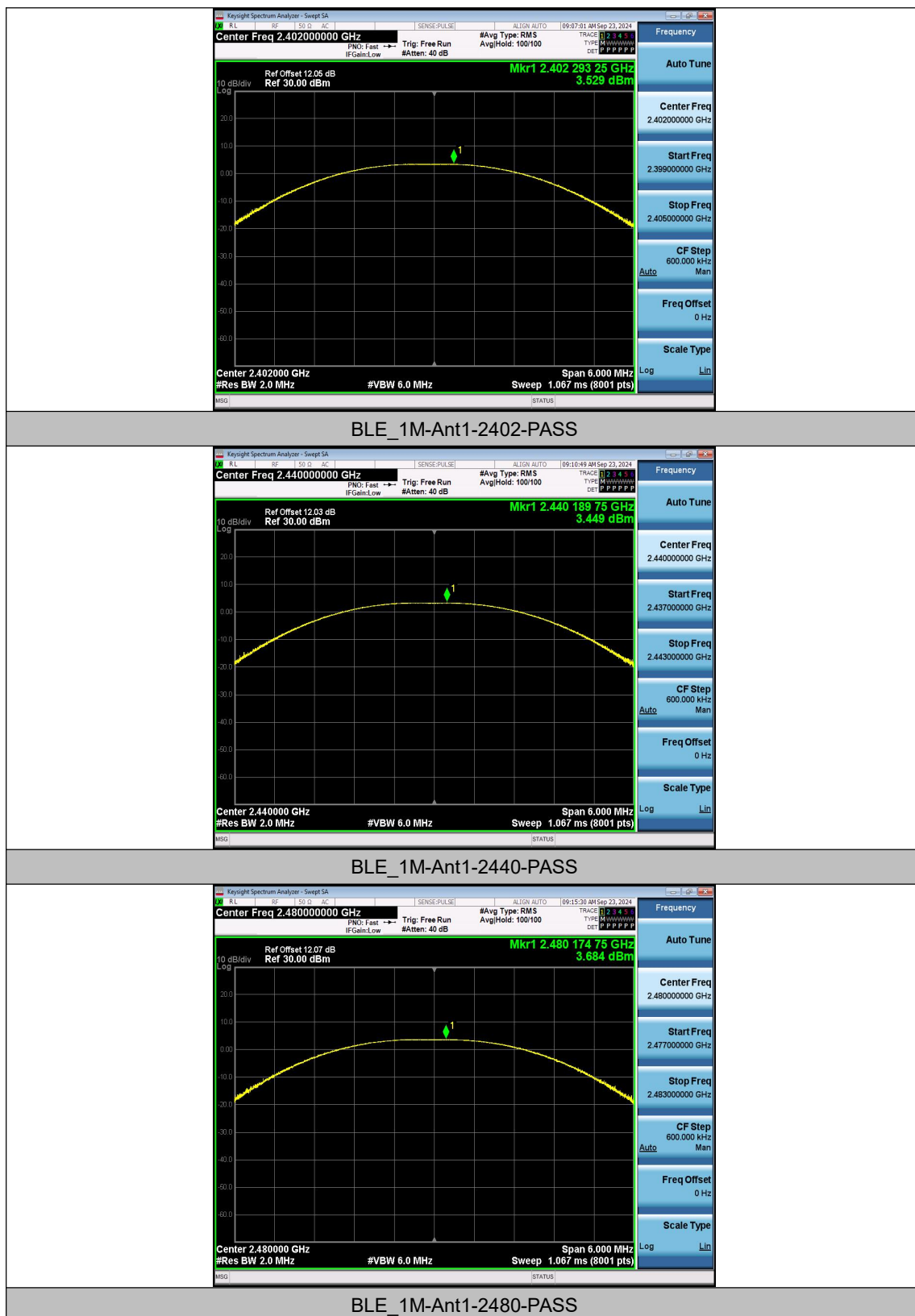


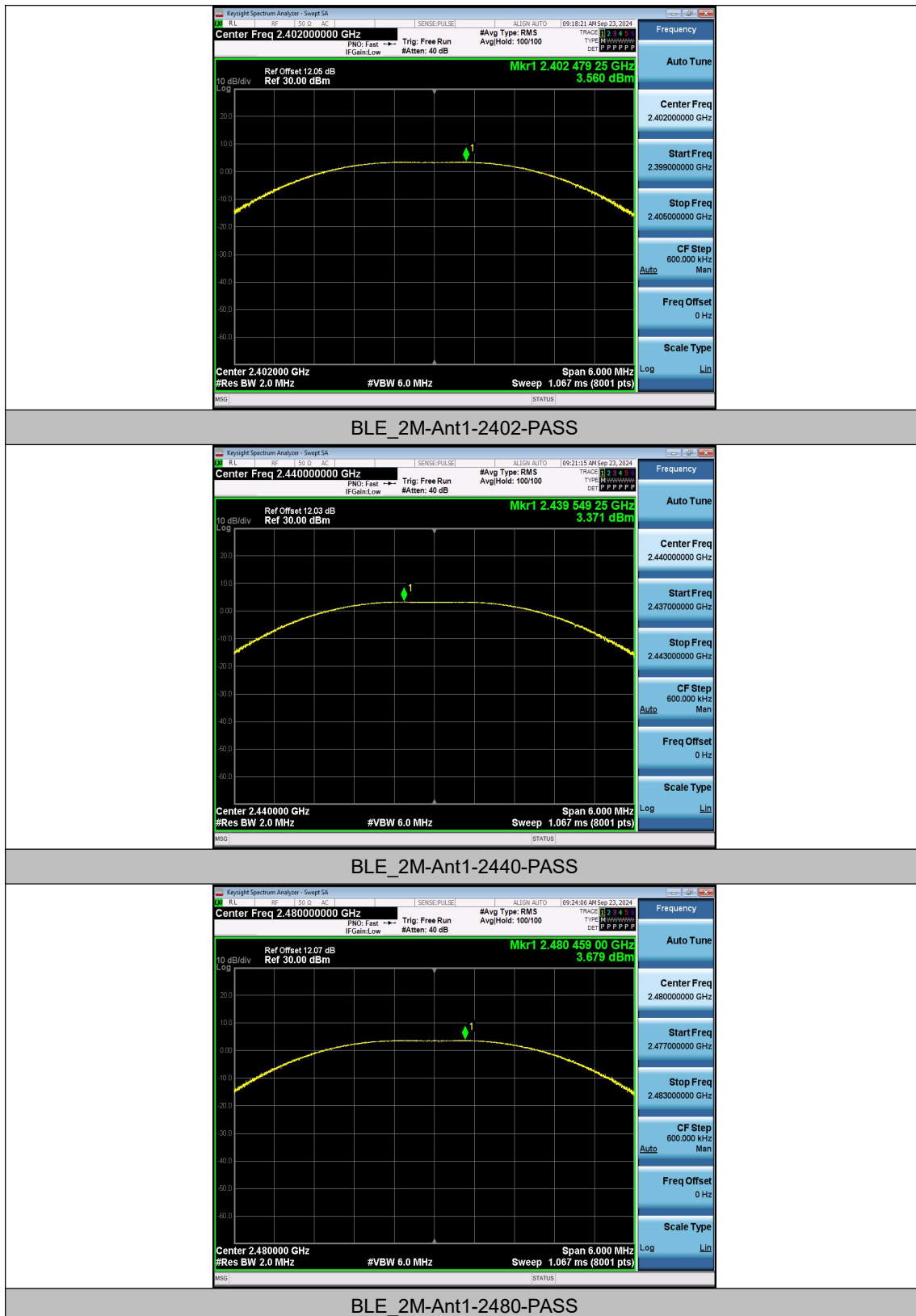
Appendix B: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.53	≤30	PASS
BLE_1M	Ant1	2440	3.45	≤30	PASS
BLE_1M	Ant1	2480	3.68	≤30	PASS
BLE_2M	Ant1	2402	3.56	≤30	PASS
BLE_2M	Ant1	2440	3.37	≤30	PASS
BLE_2M	Ant1	2480	3.68	≤30	PASS

Test Graphs Peak



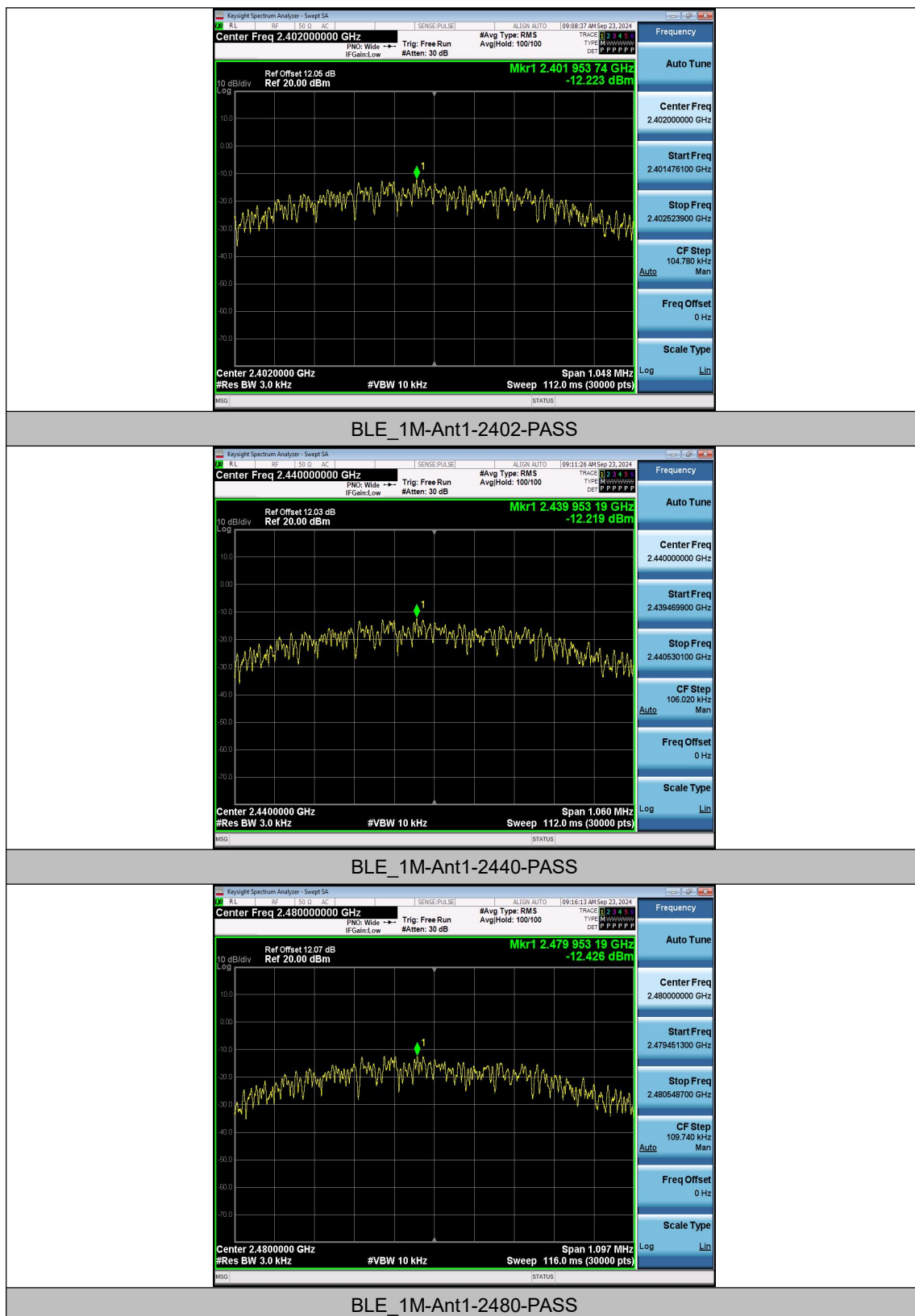


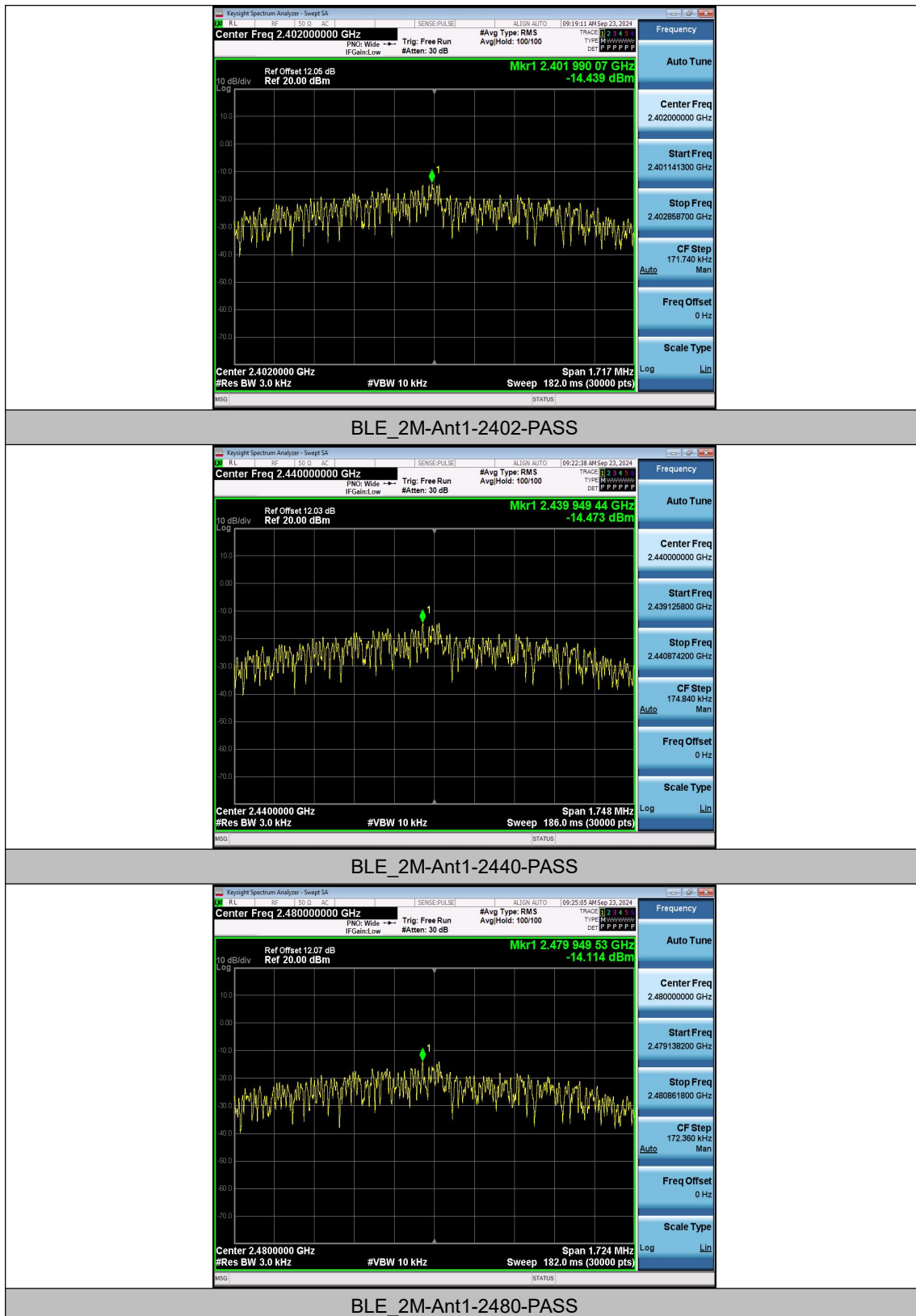
Appendix C: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.22	≤8.00	PASS
BLE_1M	Ant1	2440	-12.22	≤8.00	PASS
BLE_1M	Ant1	2480	-12.43	≤8.00	PASS
BLE_2M	Ant1	2402	-14.44	≤8.00	PASS
BLE_2M	Ant1	2440	-14.47	≤8.00	PASS
BLE_2M	Ant1	2480	-14.11	≤8.00	PASS

Test Graphs





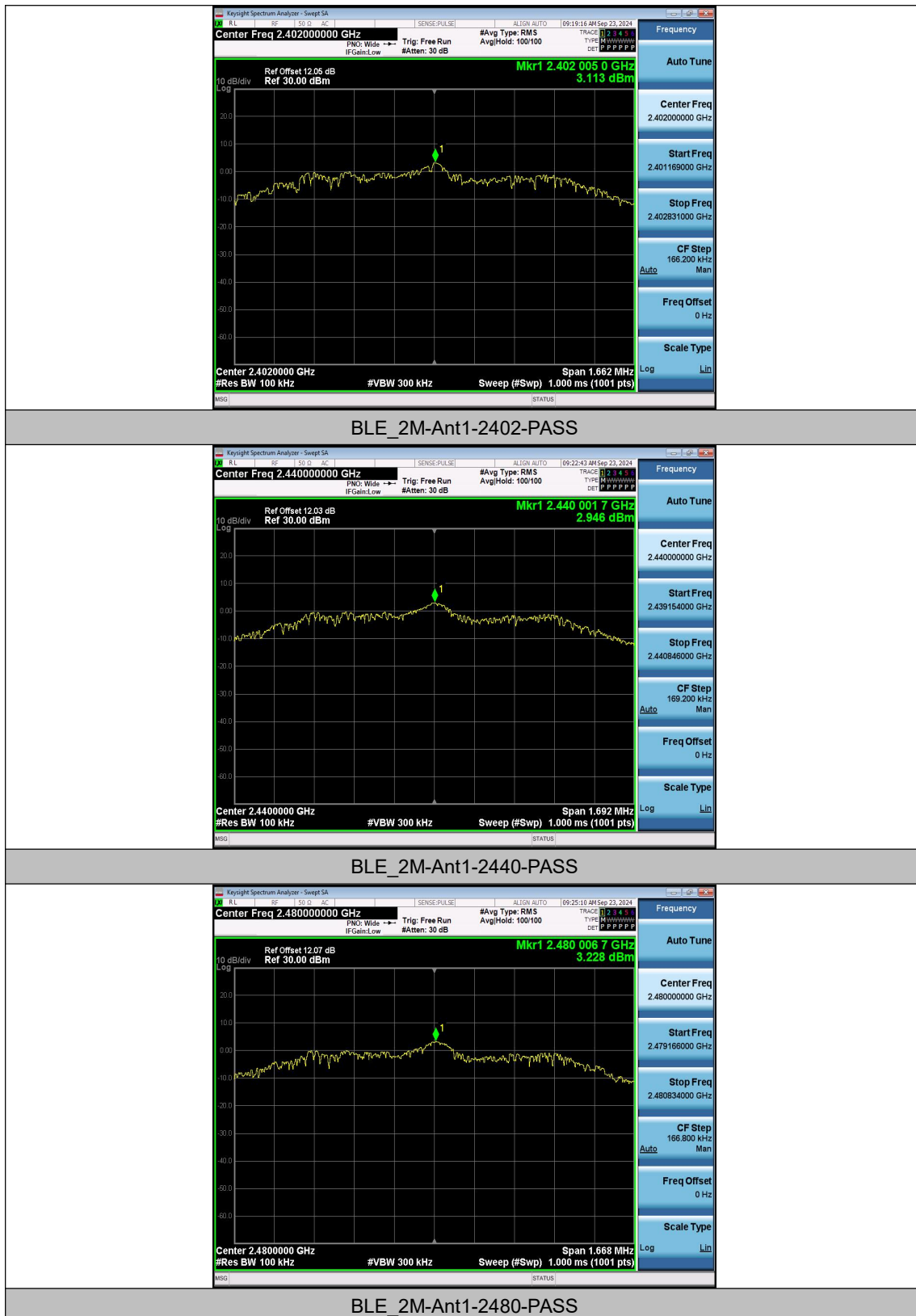
Appendix D: Reference level measurement

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	Ant1	2402	2402.00	3.13
BLE_1M	Ant1	2440	2440.01	2.85
BLE_1M	Ant1	2480	2480.01	3.25
BLE_2M	Ant1	2402	2402.00	3.11
BLE_2M	Ant1	2440	2440.00	2.95
BLE_2M	Ant1	2480	2480.01	3.23

Test Graphs



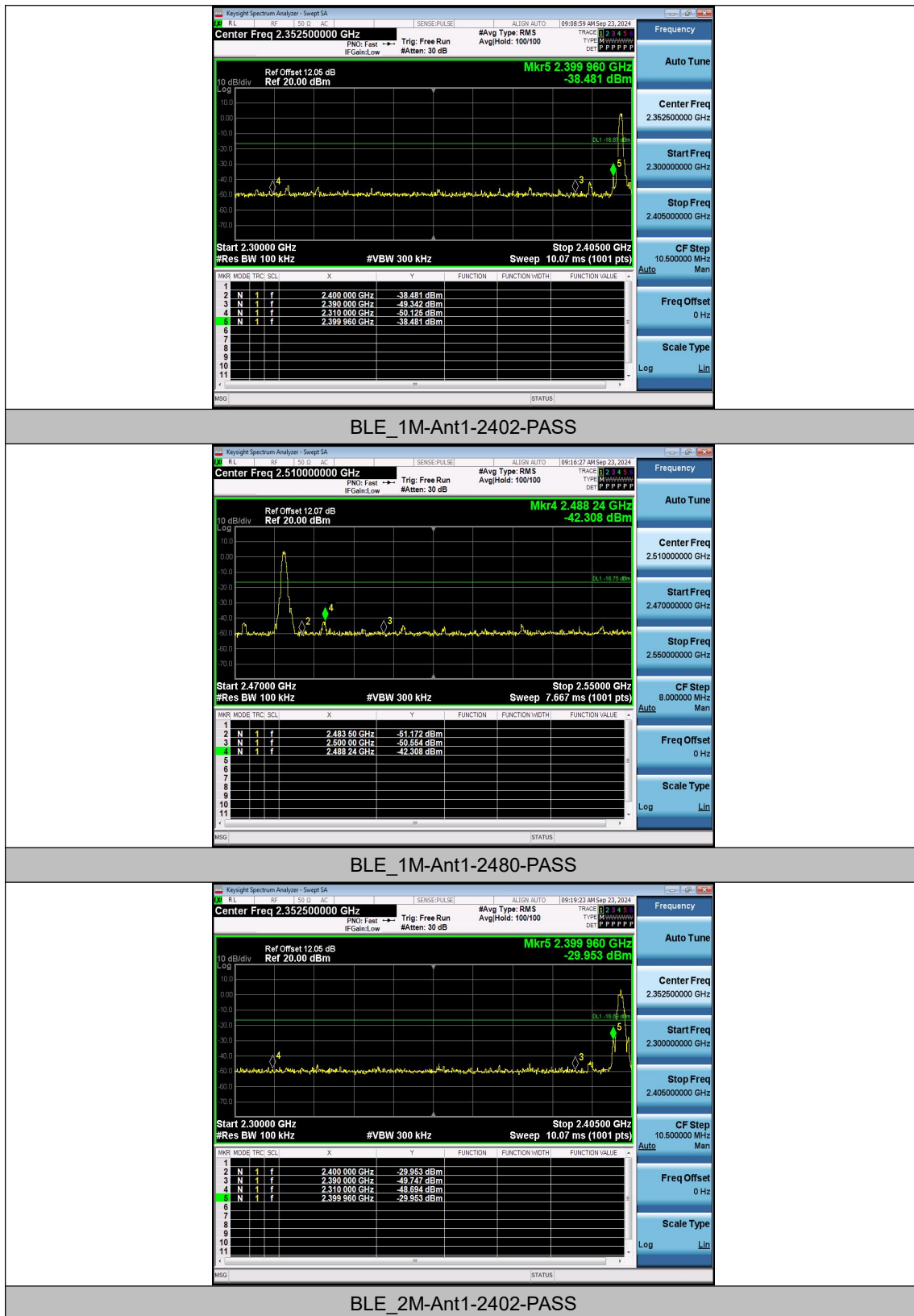


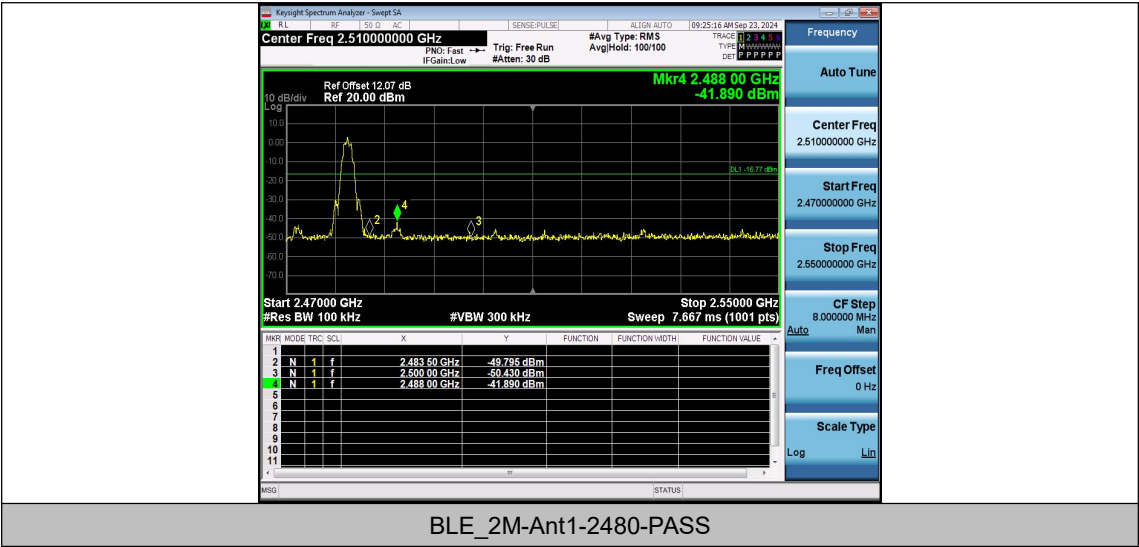
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.13	-38.48	≤-16.87	PASS
BLE_1M	Ant1	High	2480	3.25	-42.31	≤-16.75	PASS
BLE_2M	Ant1	Low	2402	3.11	-29.95	≤-16.89	PASS
BLE_2M	Ant1	High	2480	3.23	-41.89	≤-16.77	PASS

Test Graphs





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	30~1000	3.13	-54.5	≤-16.87	PASS
BLE_1M	Ant1	2402	1000~26500	3.13	-41.4	≤-16.87	PASS
BLE_1M	Ant1	2440	30~1000	2.85	-54.54	≤-17.15	PASS
BLE_1M	Ant1	2440	1000~26500	2.85	-42.31	≤-17.15	PASS
BLE_1M	Ant1	2480	30~1000	3.25	-54.81	≤-16.75	PASS
BLE_1M	Ant1	2480	1000~26500	3.25	-42.19	≤-16.75	PASS
BLE_2M	Ant1	2402	30~1000	3.11	-54.73	≤-16.89	PASS
BLE_2M	Ant1	2402	1000~26500	3.11	-42.96	≤-16.89	PASS
BLE_2M	Ant1	2440	30~1000	2.95	-55.63	≤-17.05	PASS
BLE_2M	Ant1	2440	1000~26500	2.95	-41.97	≤-17.05	PASS
BLE_2M	Ant1	2480	30~1000	3.23	-54.9	≤-16.77	PASS
BLE_2M	Ant1	2480	1000~26500	3.23	-43.68	≤-16.77	PASS

Test Graphs

