

Appendix Test Data

Report No.:	1812C50582812502-01	Test Sample No.:	1-2-2
Start Test Date:	2025-11-8	Finish Test Date:	2025-11-20
Test Engineer:	Alex Peng	Auditor:	Justin Feng
Temperature:	23.1°C	Relative Humidity:	36%
Pressure:	101kPa		



Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.636	2401.696	2402.332	0.5	PASS
BLE_1M	Ant1	2440	0.624	2439.700	2440.324	0.5	PASS
BLE_1M	Ant1	2480	0.628	2479.696	2480.324	0.5	PASS
BLE_2M	Ant1	2402	1.112	2401.448	2402.560	0.5	PASS
BLE_2M	Ant1	2440	1.088	2439.468	2440.556	0.5	PASS
BLE_2M	Ant1	2480	1.112	2479.448	2480.560	0.5	PASS

Test Graphs



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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.98577	2401.5263	2402.5120	---	---
BLE_1M	Ant1	2440	0.97742	2439.5243	2440.5017	---	---
BLE_1M	Ant1	2480	0.98385	2479.5284	2480.5123	---	---
BLE_2M	Ant1	2402	1.9026	2401.0741	2402.9767	---	---
BLE_2M	Ant1	2440	1.9117	2439.0700	2440.9817	---	---
BLE_2M	Ant1	2480	1.9361	2479.0561	2480.9922	---	---

Test Graphs



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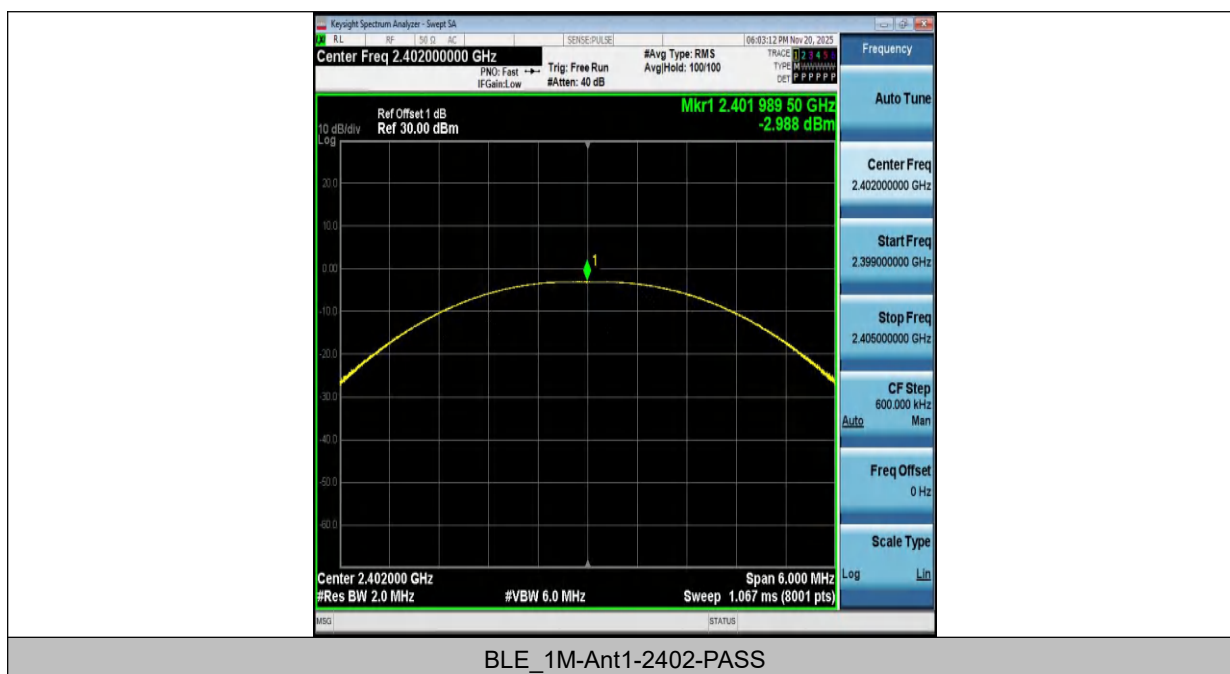
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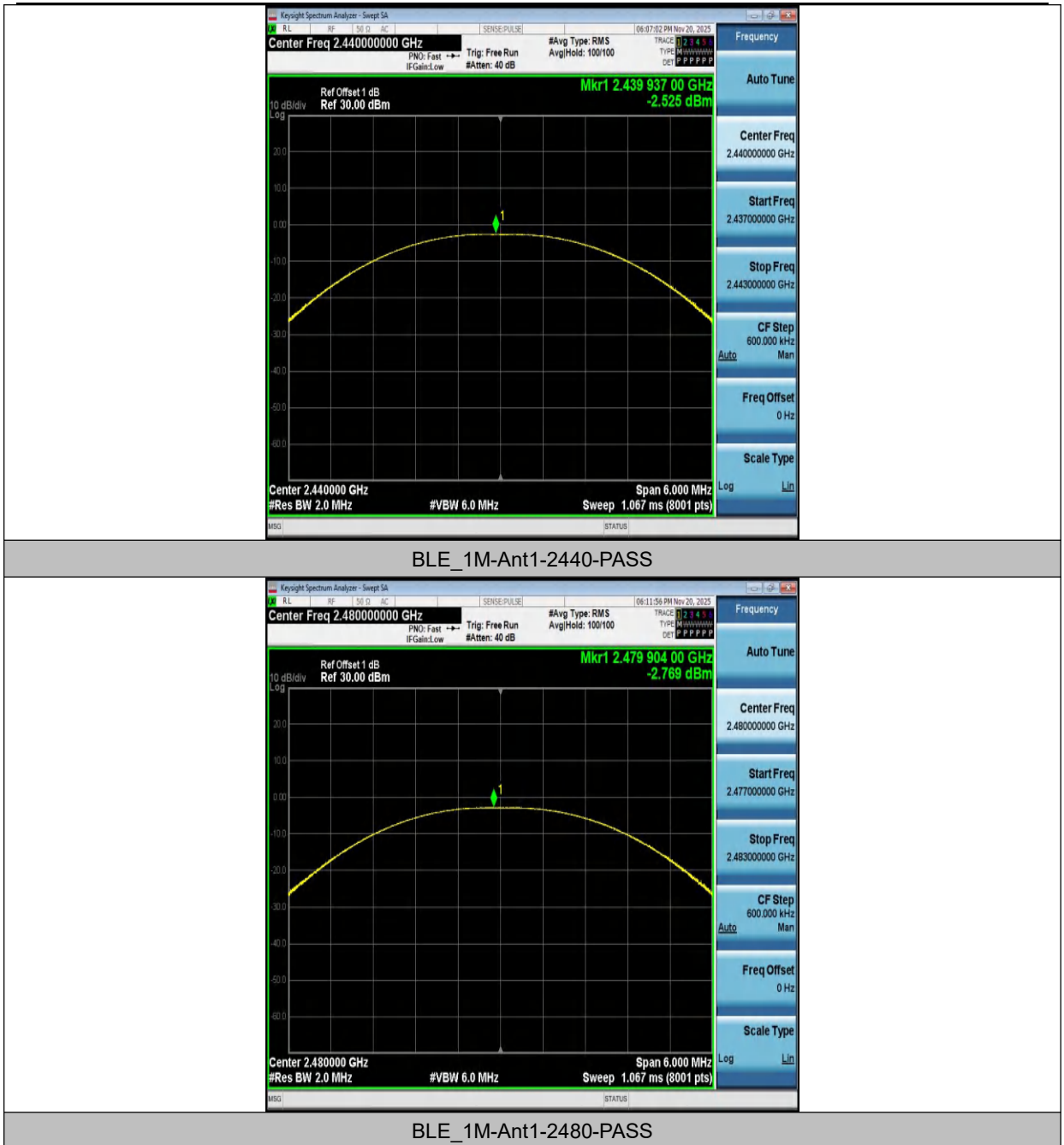
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.99	≤30	PASS
BLE_1M	Ant1	2440	-2.53	≤30	PASS
BLE_1M	Ant1	2480	-2.77	≤30	PASS
BLE_2M	Ant1	2402	-3.27	≤30	PASS
BLE_2M	Ant1	2440	-2.60	≤30	PASS
BLE_2M	Ant1	2480	-2.74	≤30	PASS

Test Graphs Peak

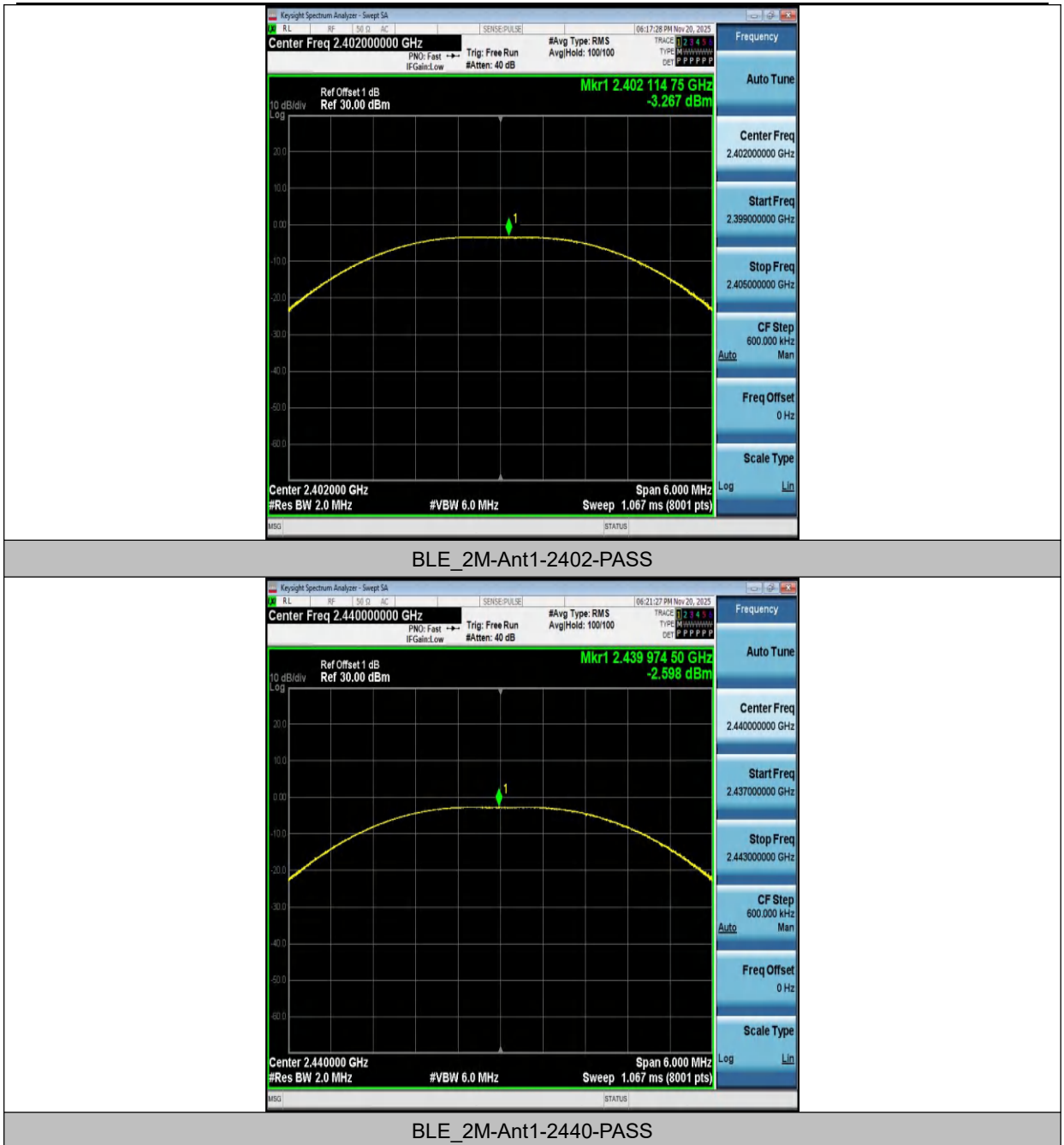




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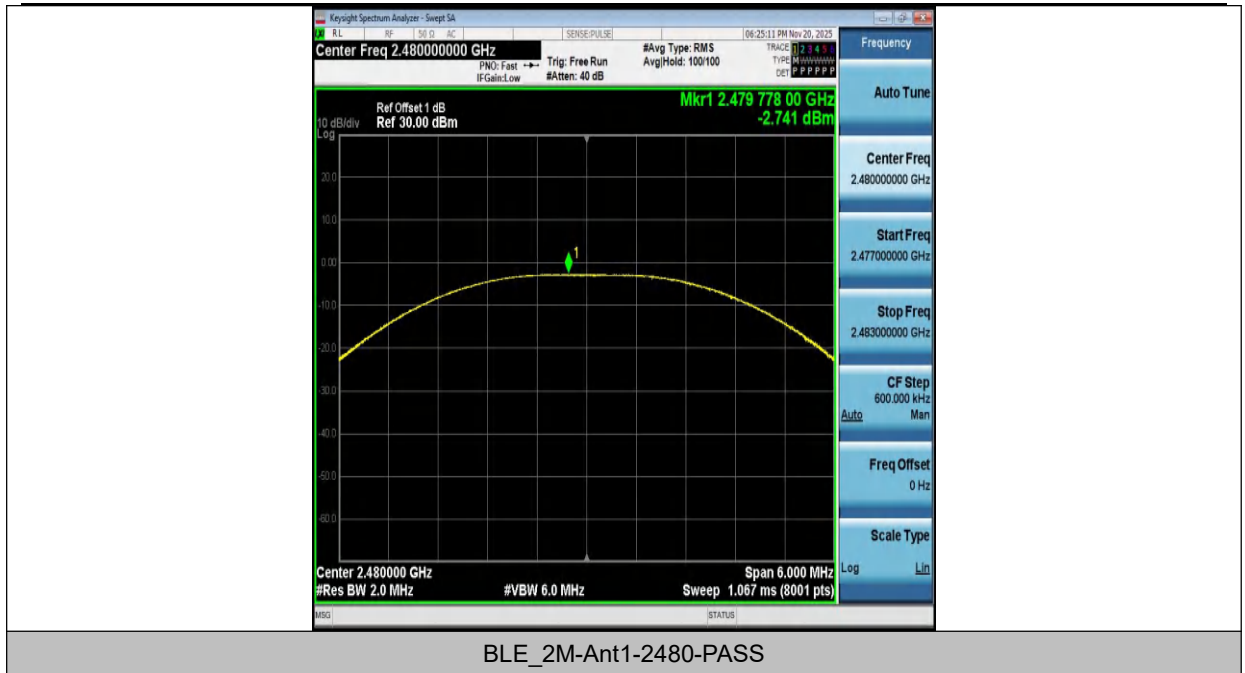
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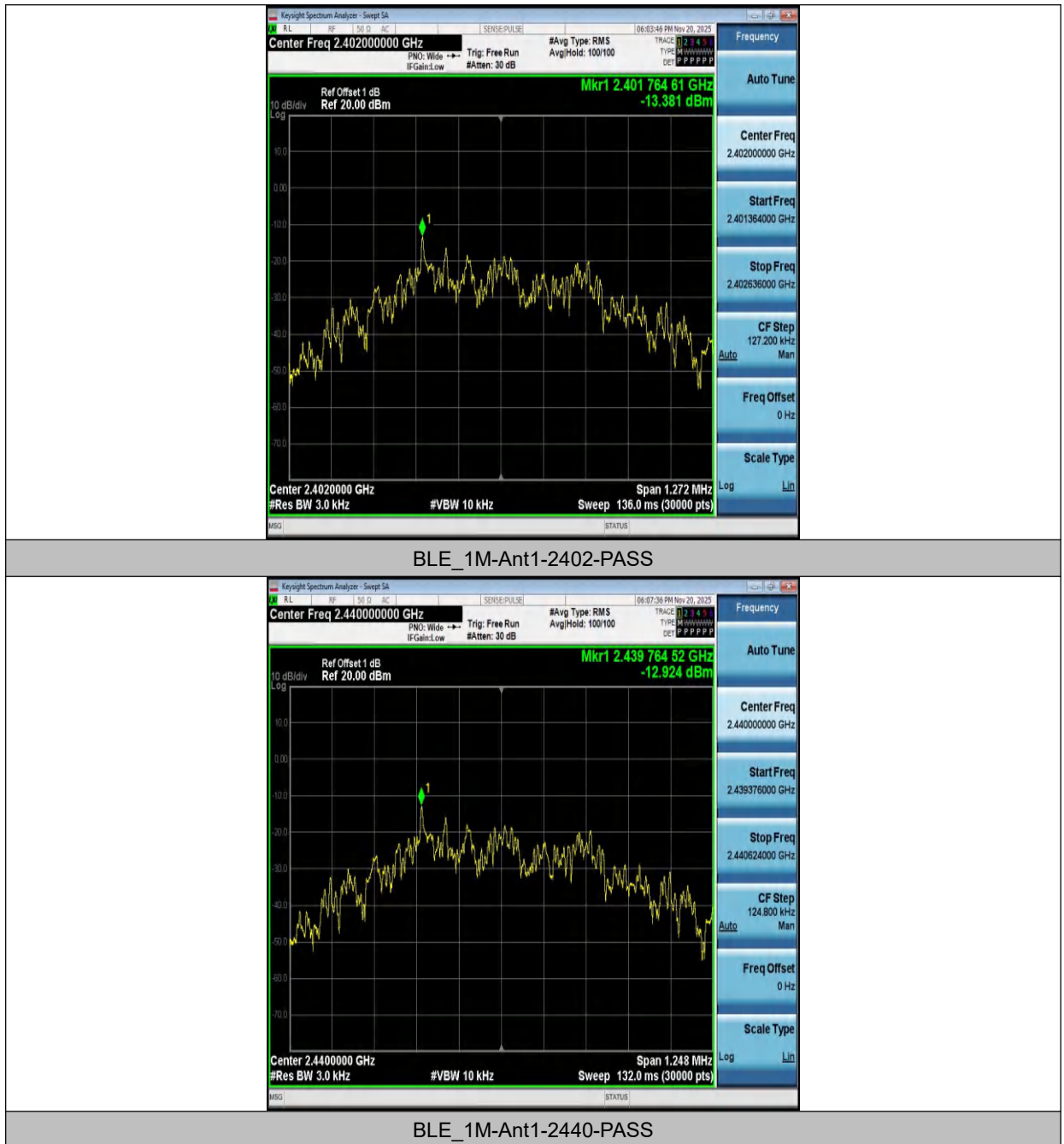
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.38	≤8.00	PASS
BLE_1M	Ant1	2440	-12.92	≤8.00	PASS
BLE_1M	Ant1	2480	-13.01	≤8.00	PASS
BLE_2M	Ant1	2402	-18.72	≤8.00	PASS
BLE_2M	Ant1	2440	-18.18	≤8.00	PASS
BLE_2M	Ant1	2480	-18.33	≤8.00	PASS

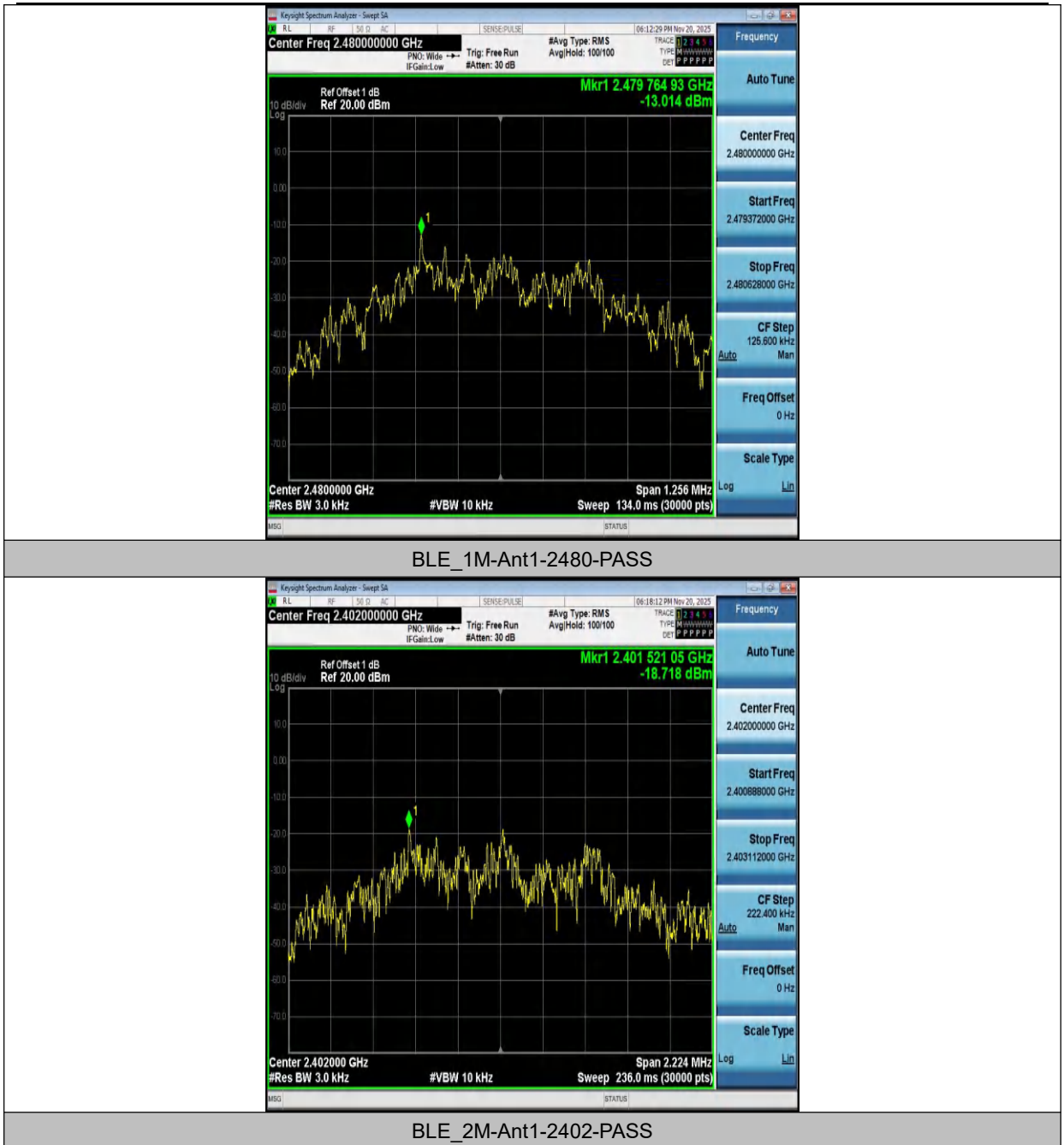
Test Graphs



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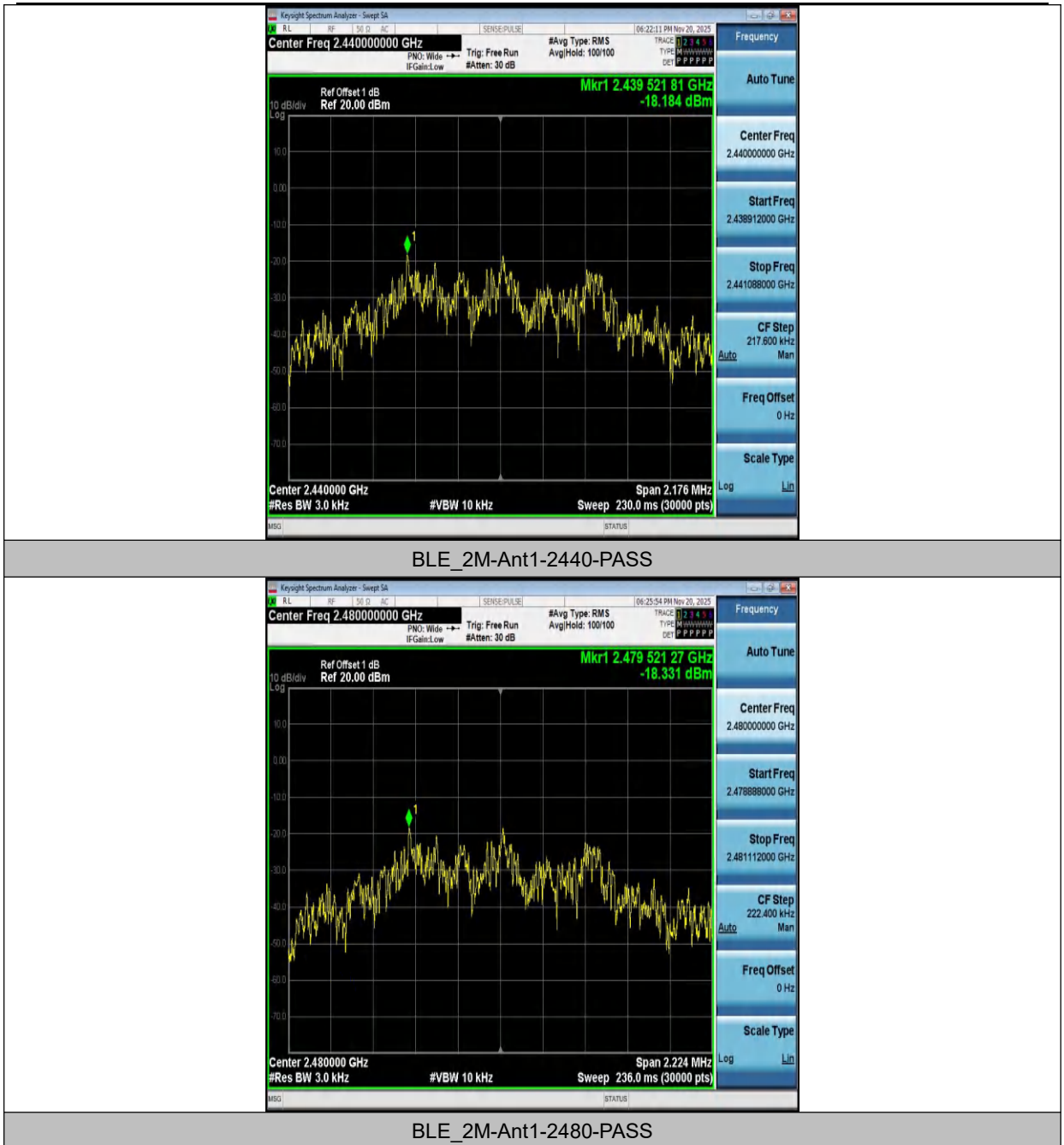
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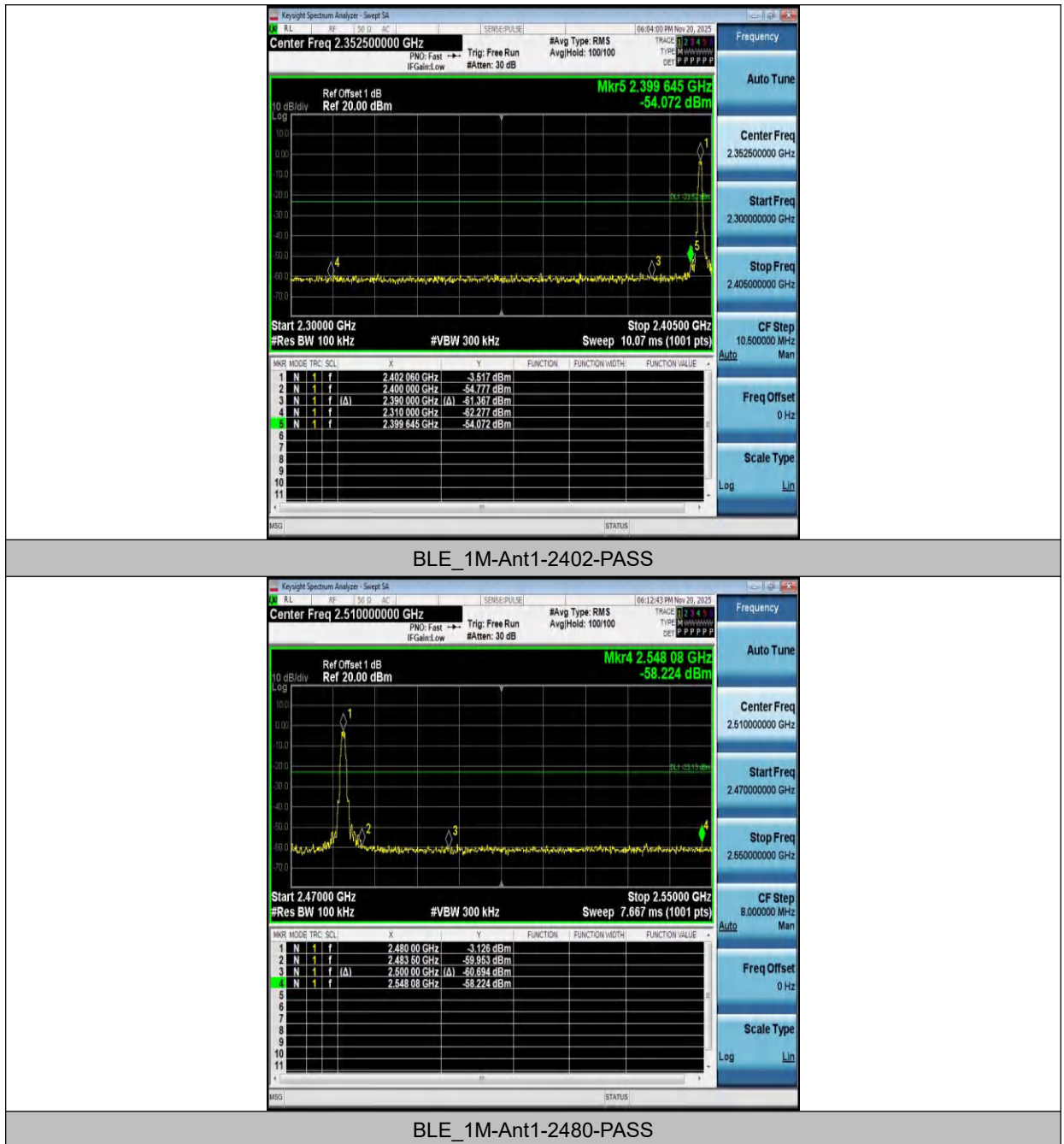
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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.52	-54.07	≤-23.52	PASS
BLE_1M	Ant1	High	2480	-3.13	-58.22	≤-23.13	PASS
BLE_2M	Ant1	Low	2402	-3.64	-48.04	≤-23.64	PASS
BLE_2M	Ant1	High	2480	-3.22	-55.6	≤-23.22	PASS

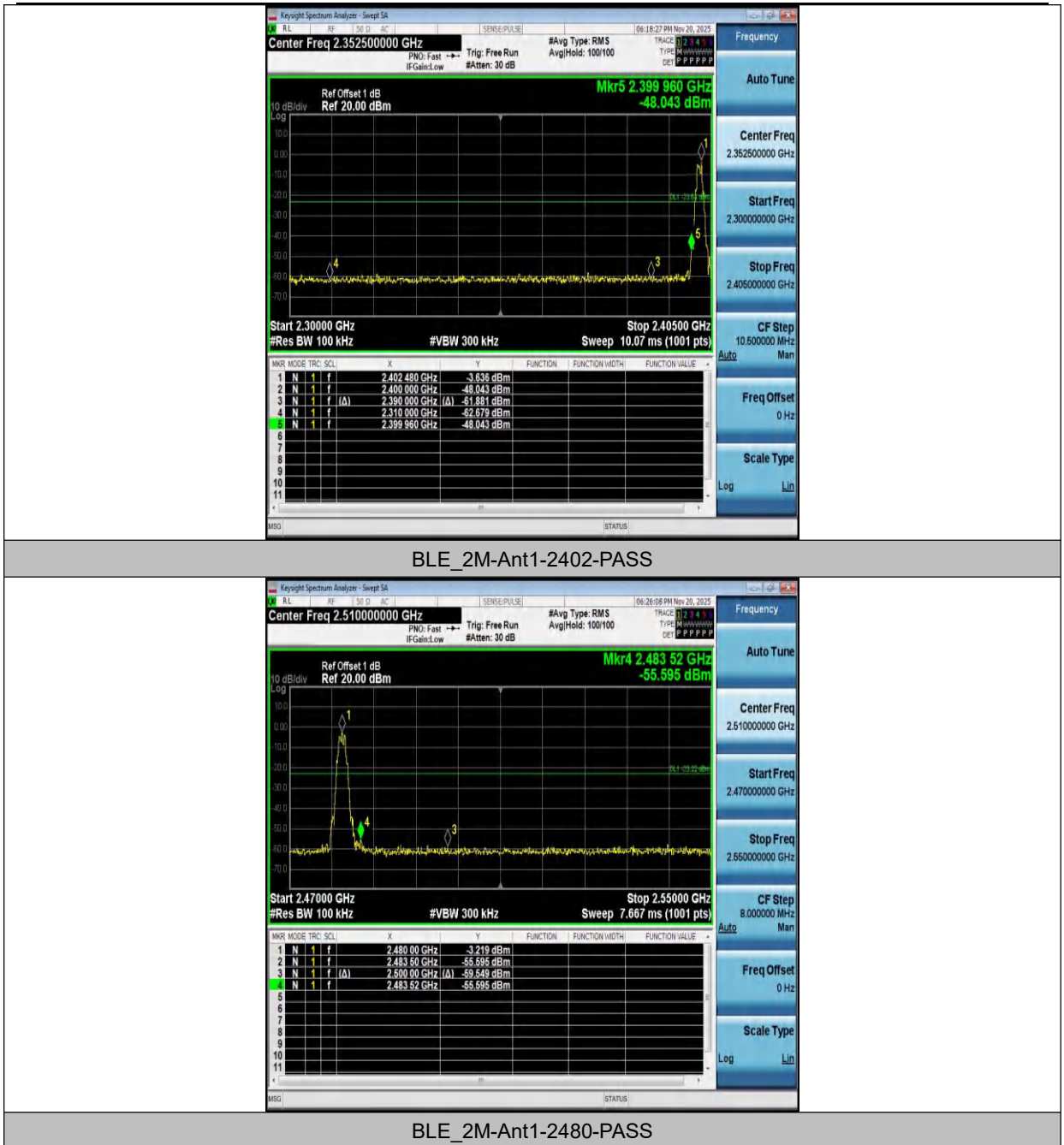
Test Graphs



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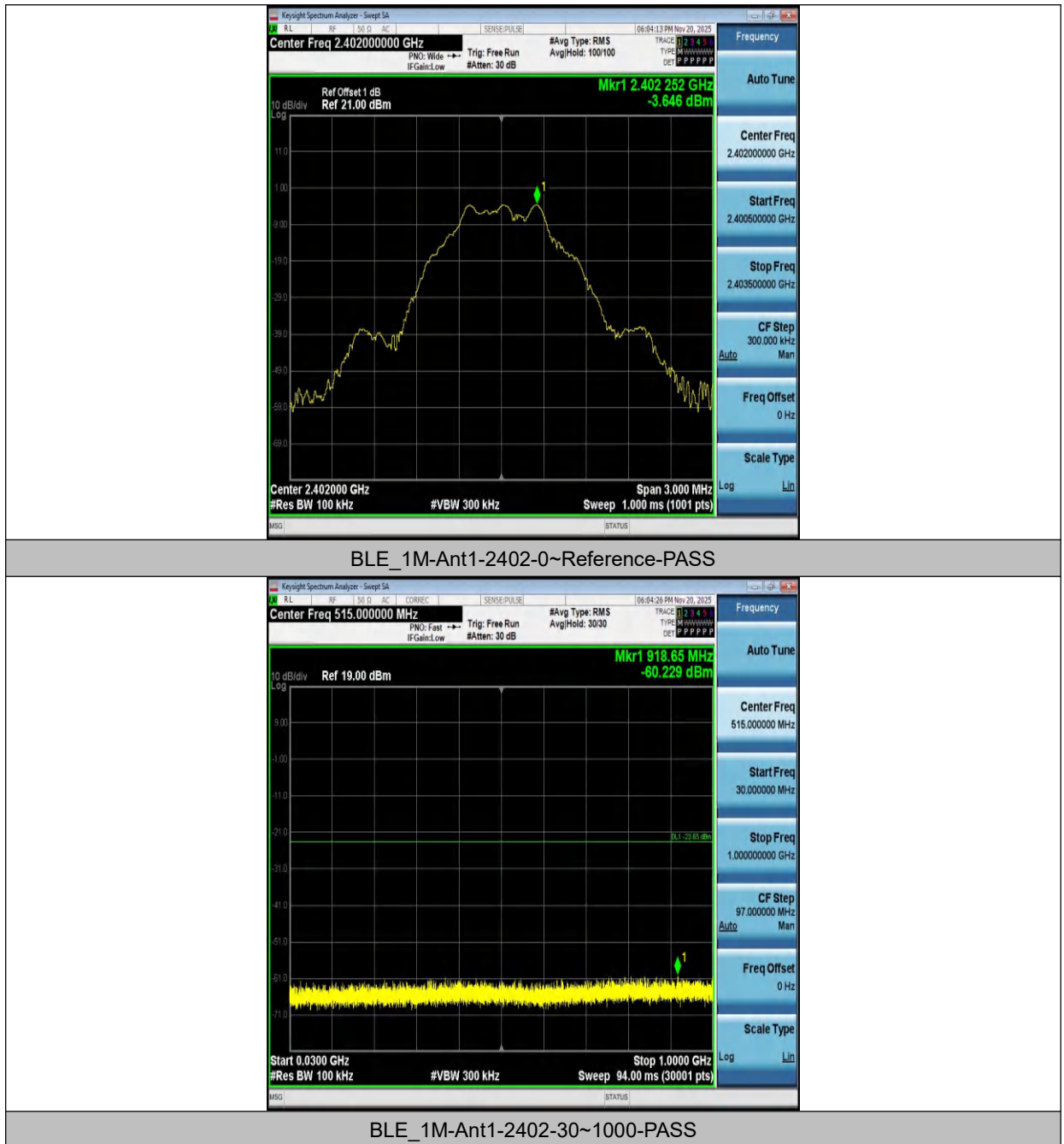
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-3.65	-3.65	---	PASS
BLE_1M	Ant1	2402	30~1000	-3.65	-60.23	≤-23.65	PASS
BLE_1M	Ant1	2402	1000~26500	-3.65	-44.33	≤-23.65	PASS
BLE_1M	Ant1	2440	0~Reference	-3.21	-3.21	---	PASS
BLE_1M	Ant1	2440	30~1000	-3.21	-58.7	≤-23.21	PASS
BLE_1M	Ant1	2440	1000~26500	-3.21	-44.74	≤-23.21	PASS
BLE_1M	Ant1	2480	0~Reference	-3.28	-3.28	---	PASS
BLE_1M	Ant1	2480	30~1000	-3.28	-58.91	≤-23.28	PASS
BLE_1M	Ant1	2480	1000~26500	-3.28	-44.72	≤-23.28	PASS
BLE_2M	Ant1	2402	0~Reference	-3.60	-3.60	---	PASS
BLE_2M	Ant1	2402	30~1000	-3.60	-58.93	≤-23.6	PASS
BLE_2M	Ant1	2402	1000~26500	-3.60	-44.51	≤-23.6	PASS
BLE_2M	Ant1	2440	0~Reference	-3.24	-3.24	---	PASS
BLE_2M	Ant1	2440	30~1000	-3.24	-59.7	≤-23.24	PASS
BLE_2M	Ant1	2440	1000~26500	-3.24	-45.39	≤-23.24	PASS
BLE_2M	Ant1	2480	0~Reference	-3.25	-3.25	---	PASS
BLE_2M	Ant1	2480	30~1000	-3.25	-59.81	≤-23.25	PASS
BLE_2M	Ant1	2480	1000~26500	-3.25	-44.83	≤-23.25	PASS

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

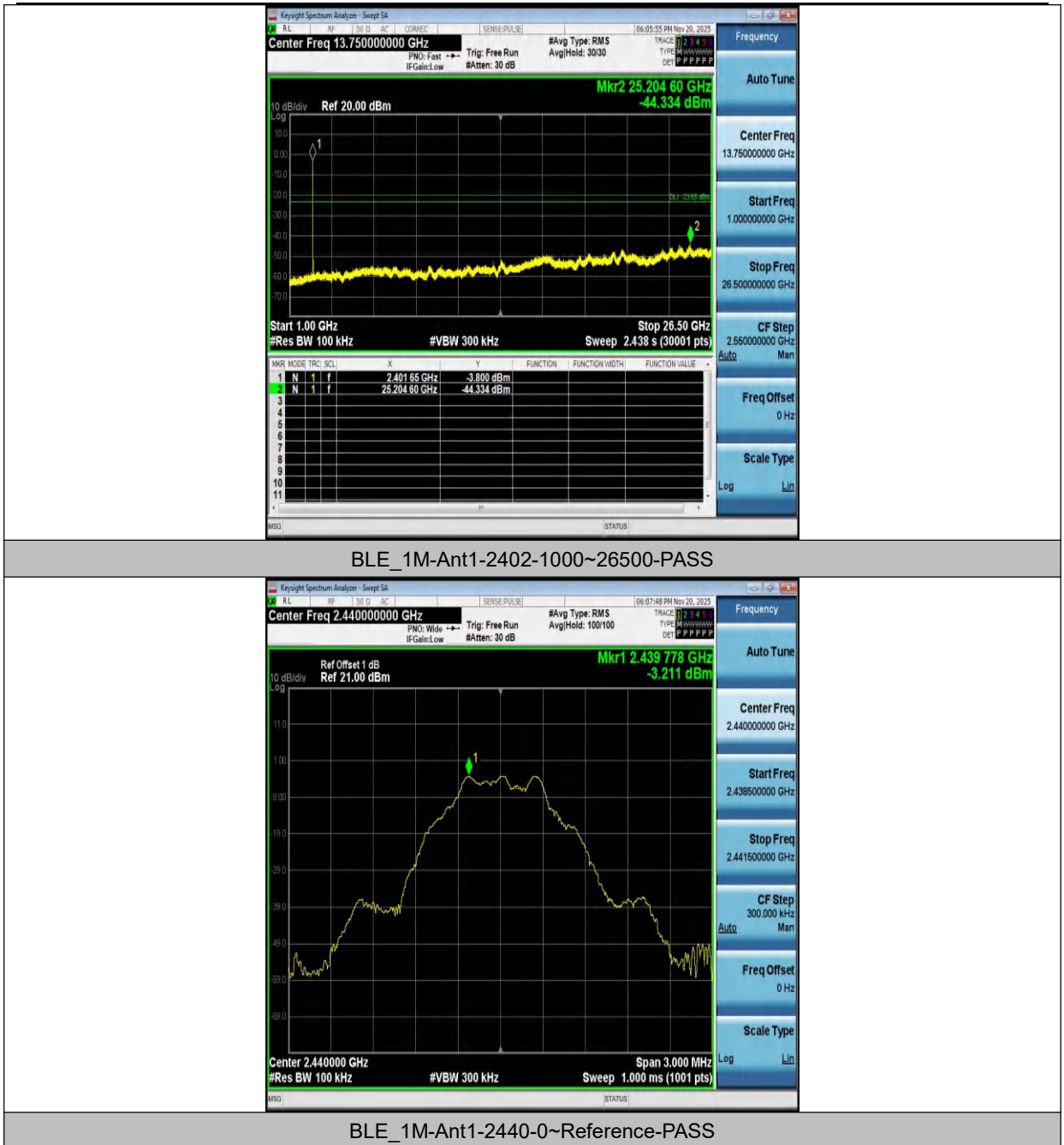
Test Graphs



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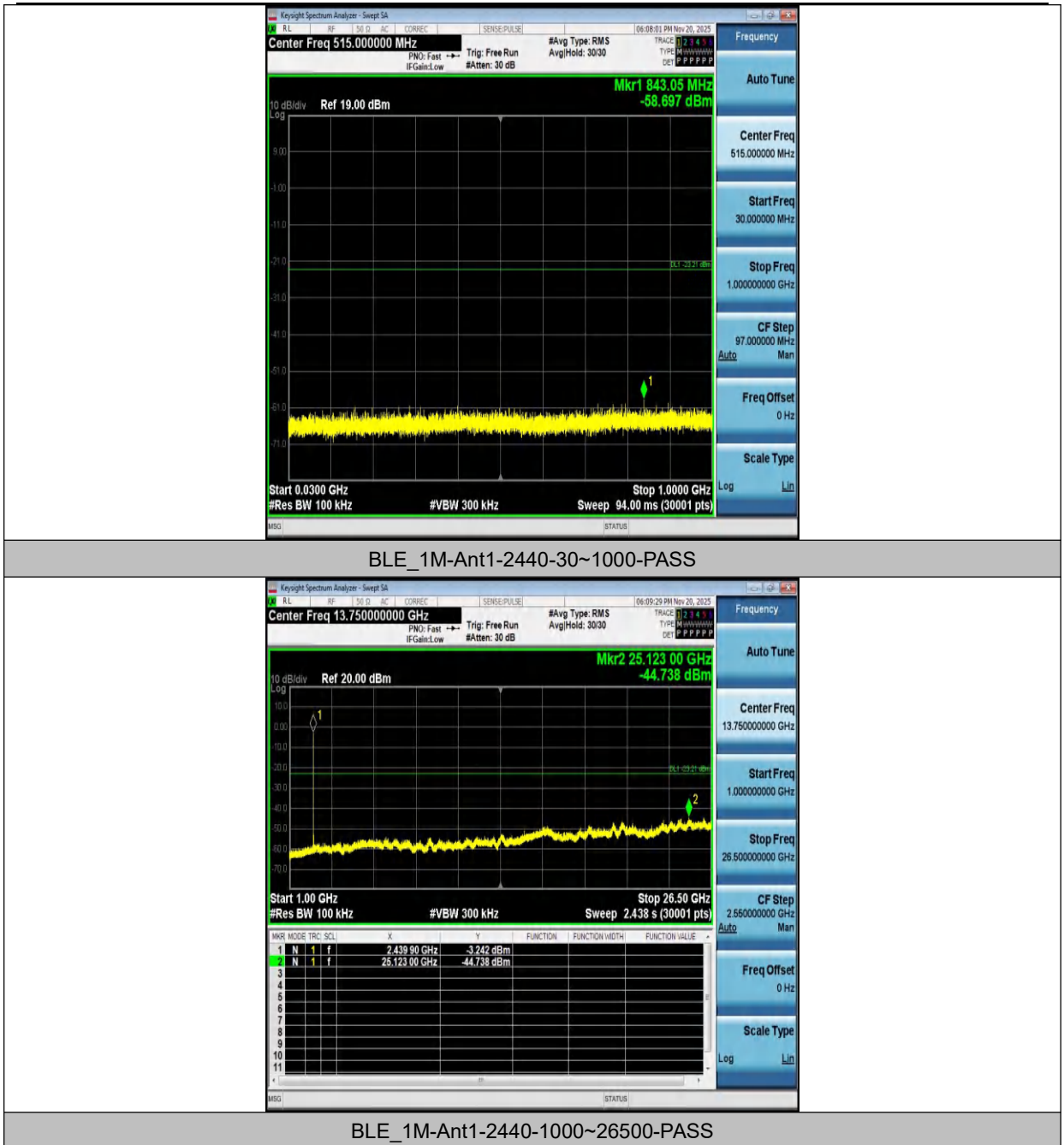
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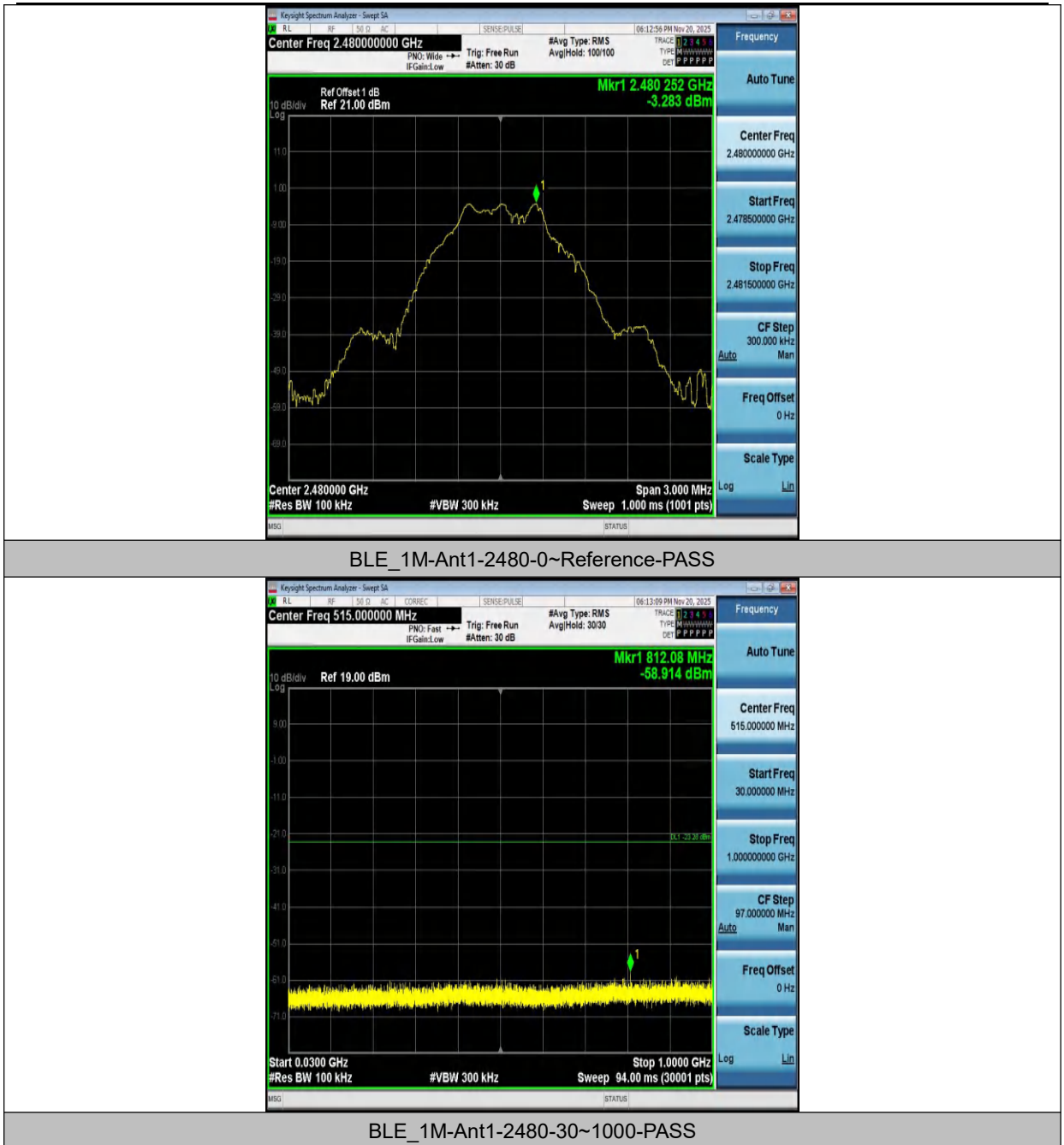
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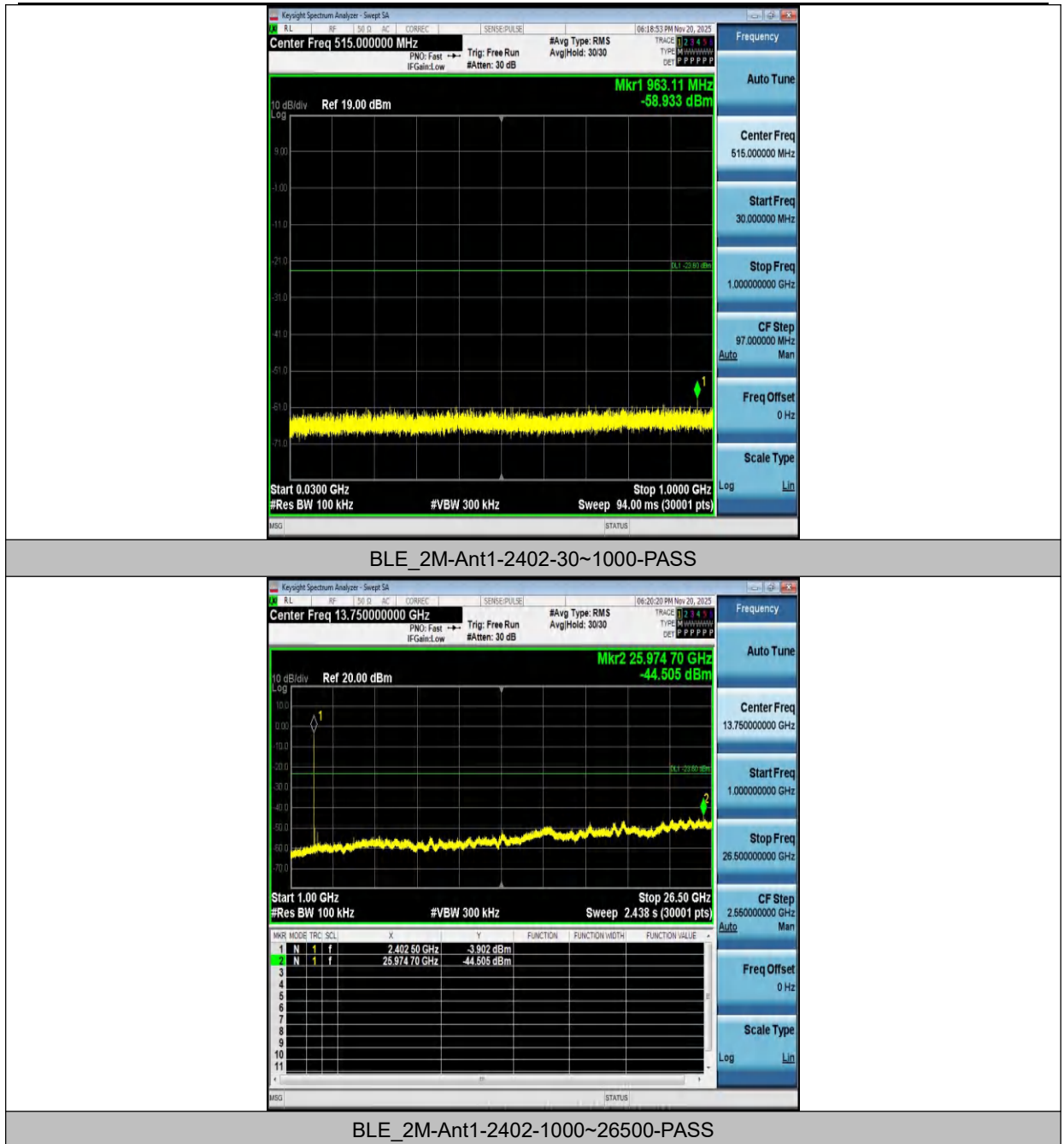
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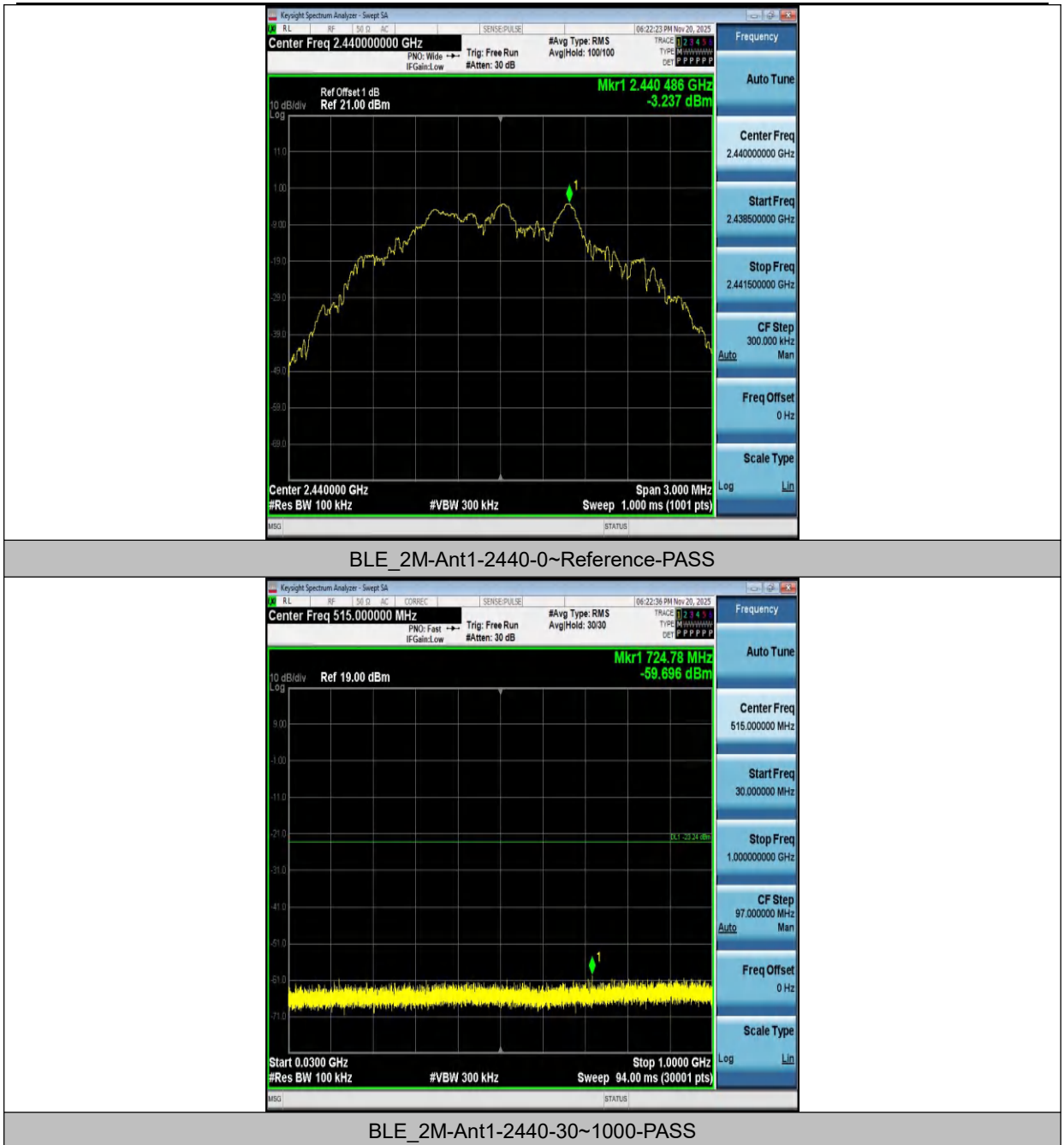
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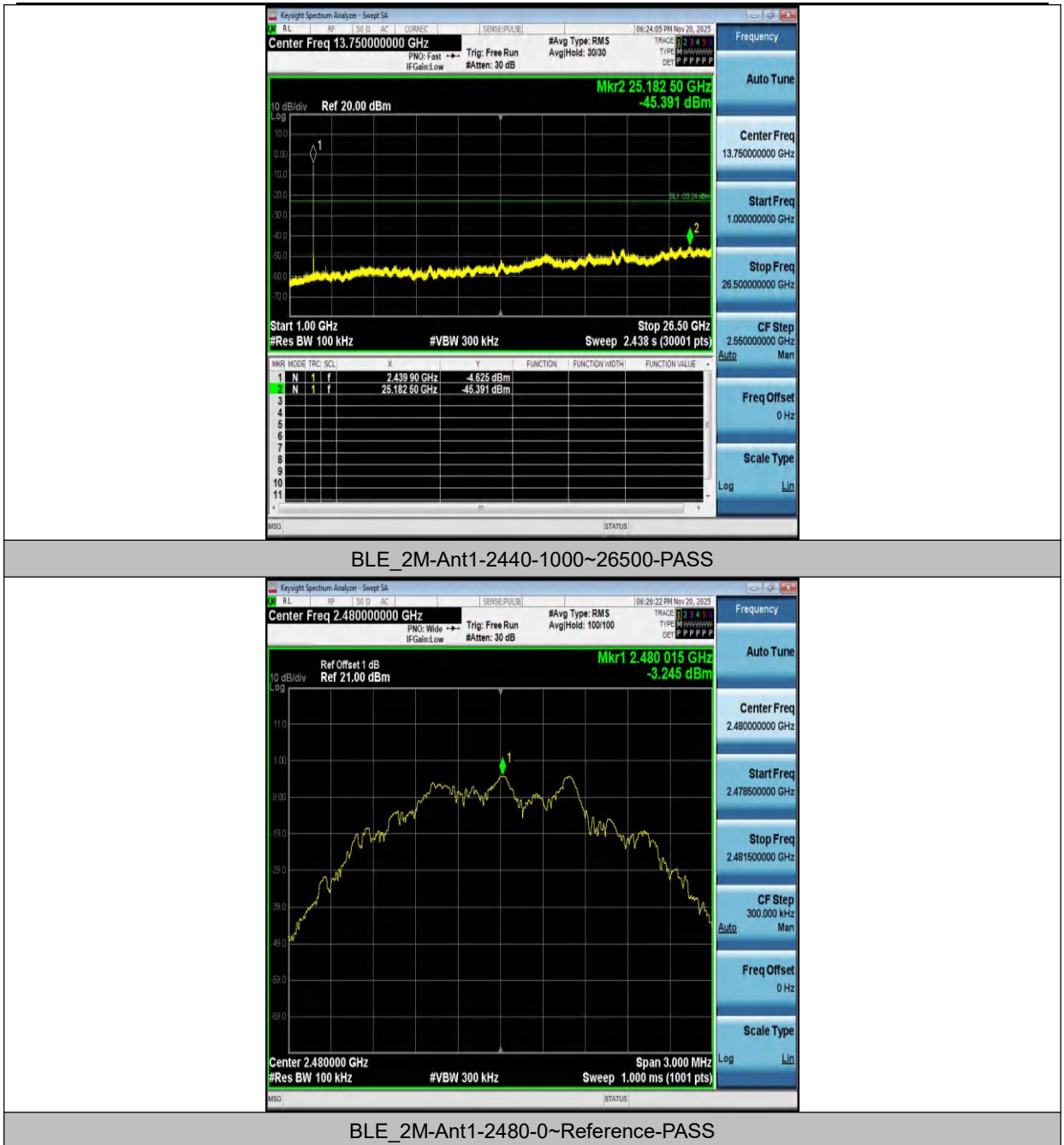
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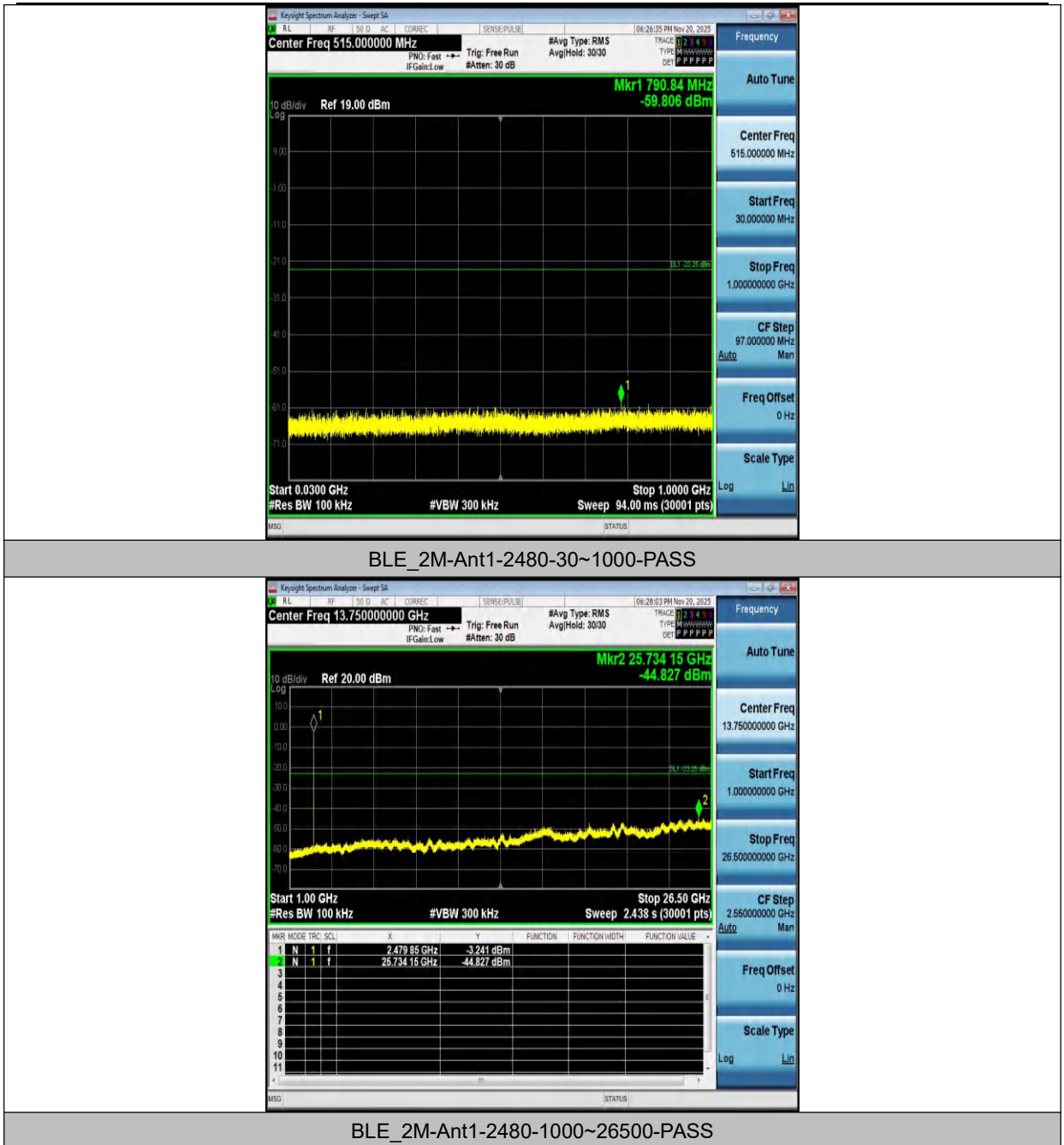
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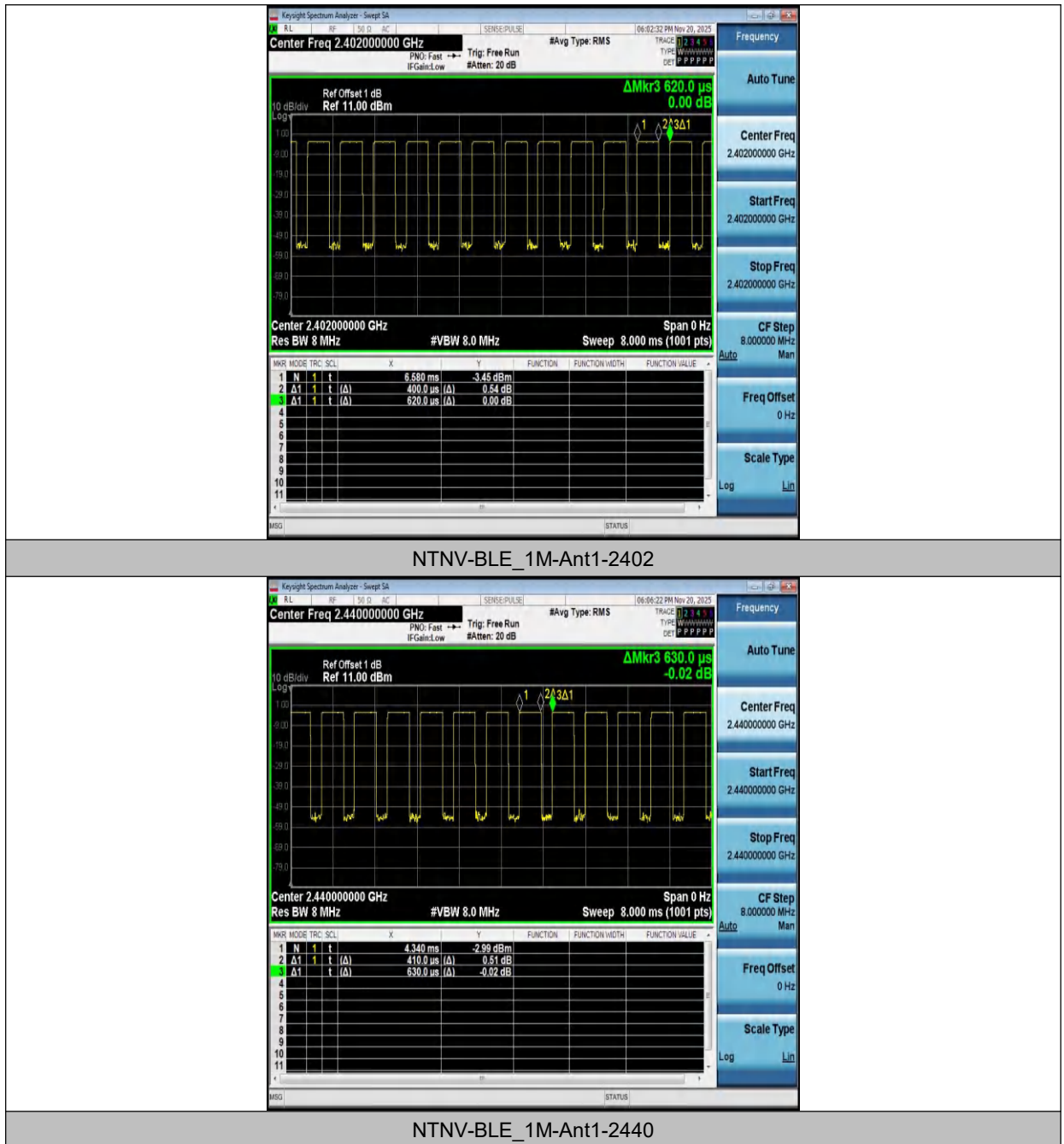
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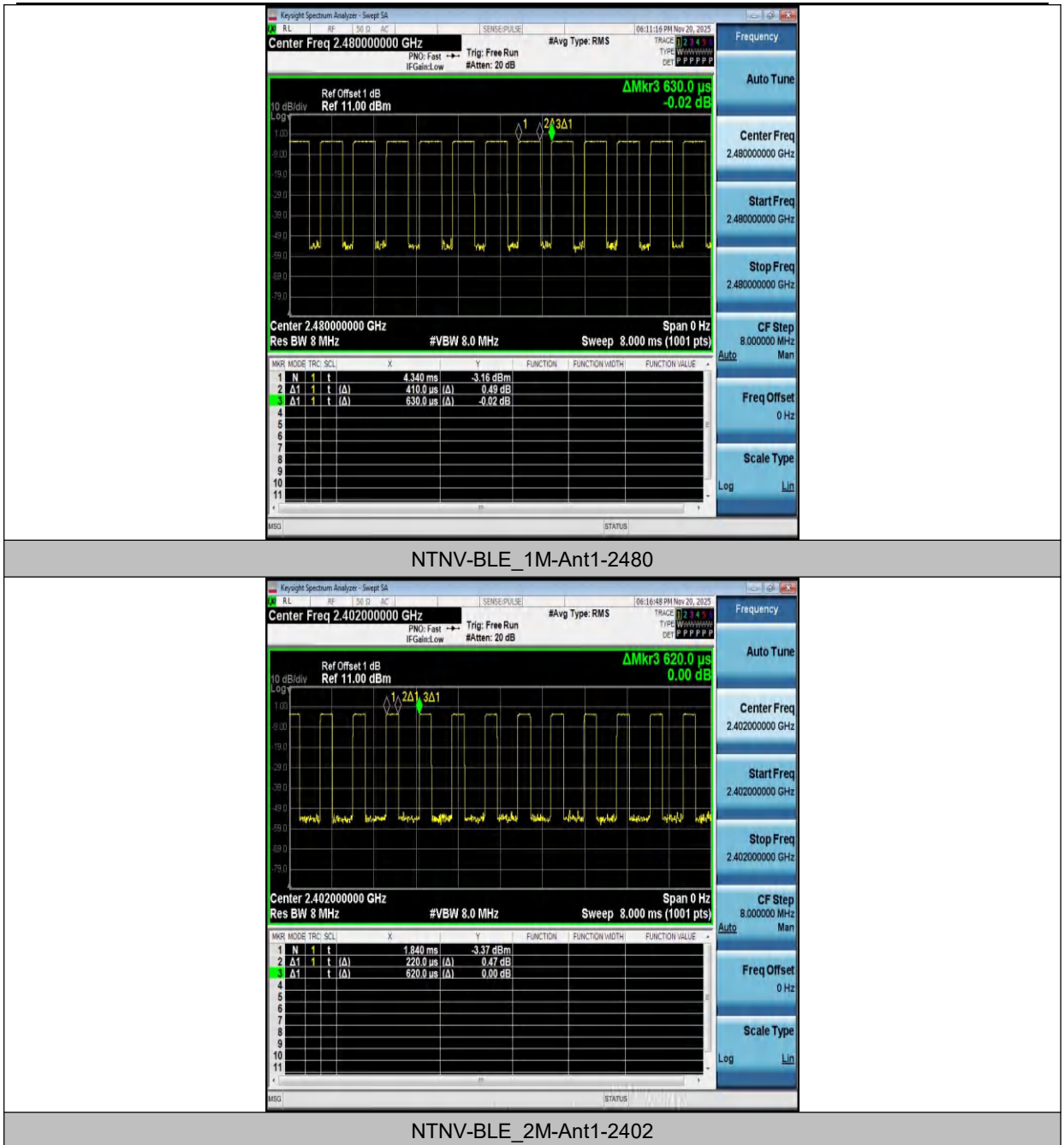
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.40	0.62	64.52	1.90
BLE_1M	Ant1	2440	0.41	0.63	65.08	1.87
BLE_1M	Ant1	2480	0.41	0.63	65.08	1.87
BLE_2M	Ant1	2402	0.22	0.62	35.48	4.50
BLE_2M	Ant1	2440	0.23	0.63	36.51	4.38
BLE_2M	Ant1	2480	0.23	0.63	36.51	4.38

Test Graphs





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