

Appendix Test Data

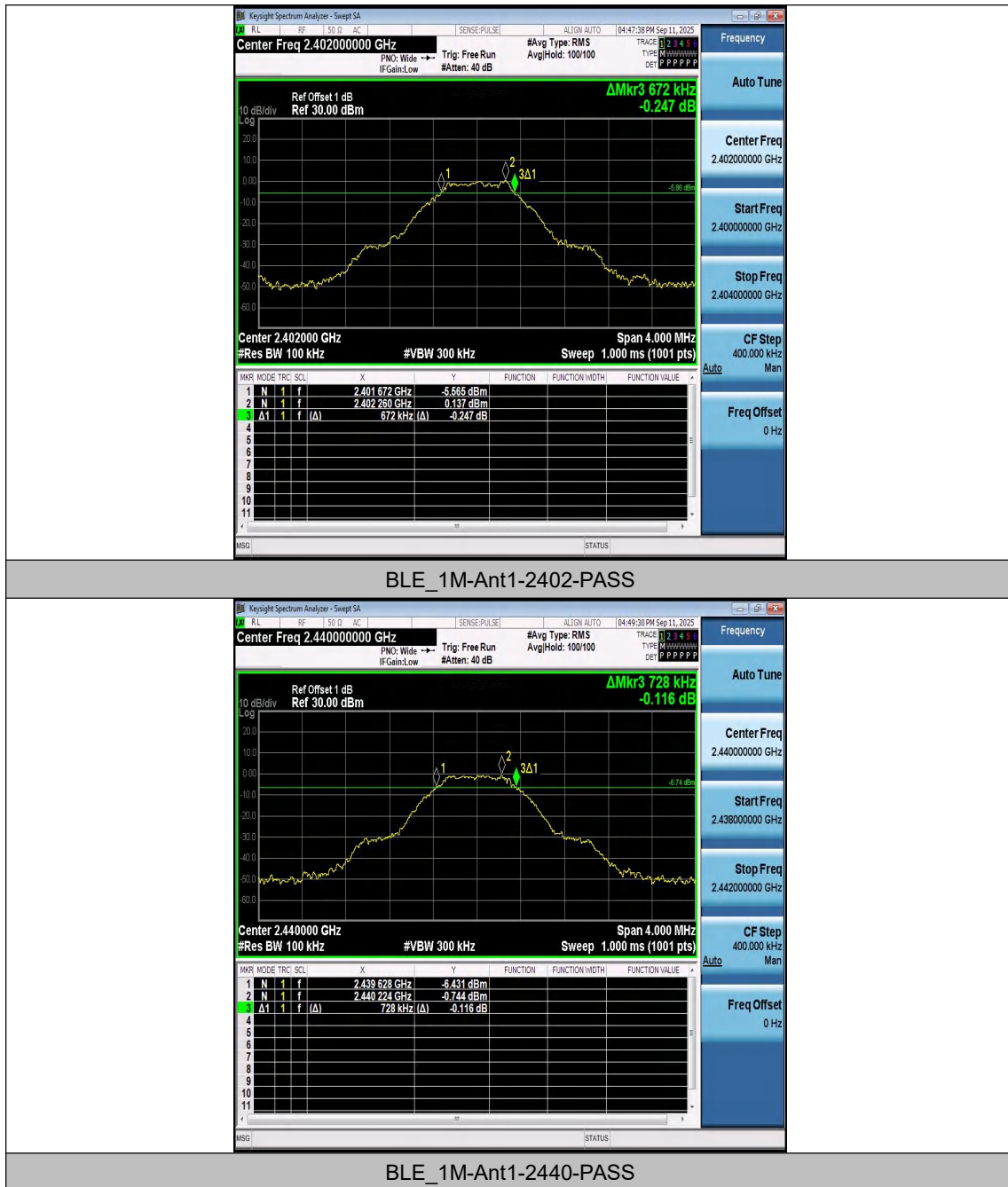
Report No.:	1812C50435512502	Test Sample No.:	1-2-2
Start Test Date:	2025-09-11	Finish Test Date:	2025-09-11
Test Engineer:	Alex Peng	Auditor:	Justin Feng
Temperature:	22.9℃	Relative Humidity:	54%
Pressure:	101kPa		

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	0.672	2401.672	2402.344	0.5	PASS
BLE_1M	Ant1	2440	0.728	2439.628	2440.356	0.5	PASS
BLE_1M	Ant1	2480	0.712	2479.632	2480.344	0.5	PASS
BLE_2M	Ant1	2402	1.296	2401.348	2402.644	0.5	PASS
BLE_2M	Ant1	2440	1.224	2439.340	2440.564	0.5	PASS
BLE_2M	Ant1	2480	1.152	2479.436	2480.588	0.5	PASS

Test Graphs







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	1.0455	2401.4823	2402.5278	---	---
BLE_1M	Ant1	2440	1.0533	2439.4742	2440.5275	---	---
BLE_1M	Ant1	2480	1.0251	2479.4862	2480.5113	---	---
BLE_2M	Ant1	2402	2.0705	2400.9827	2403.0532	---	---
BLE_2M	Ant1	2440	2.0556	2438.9908	2441.0464	---	---
BLE_2M	Ant1	2480	2.0685	2478.9755	2481.0440	---	---

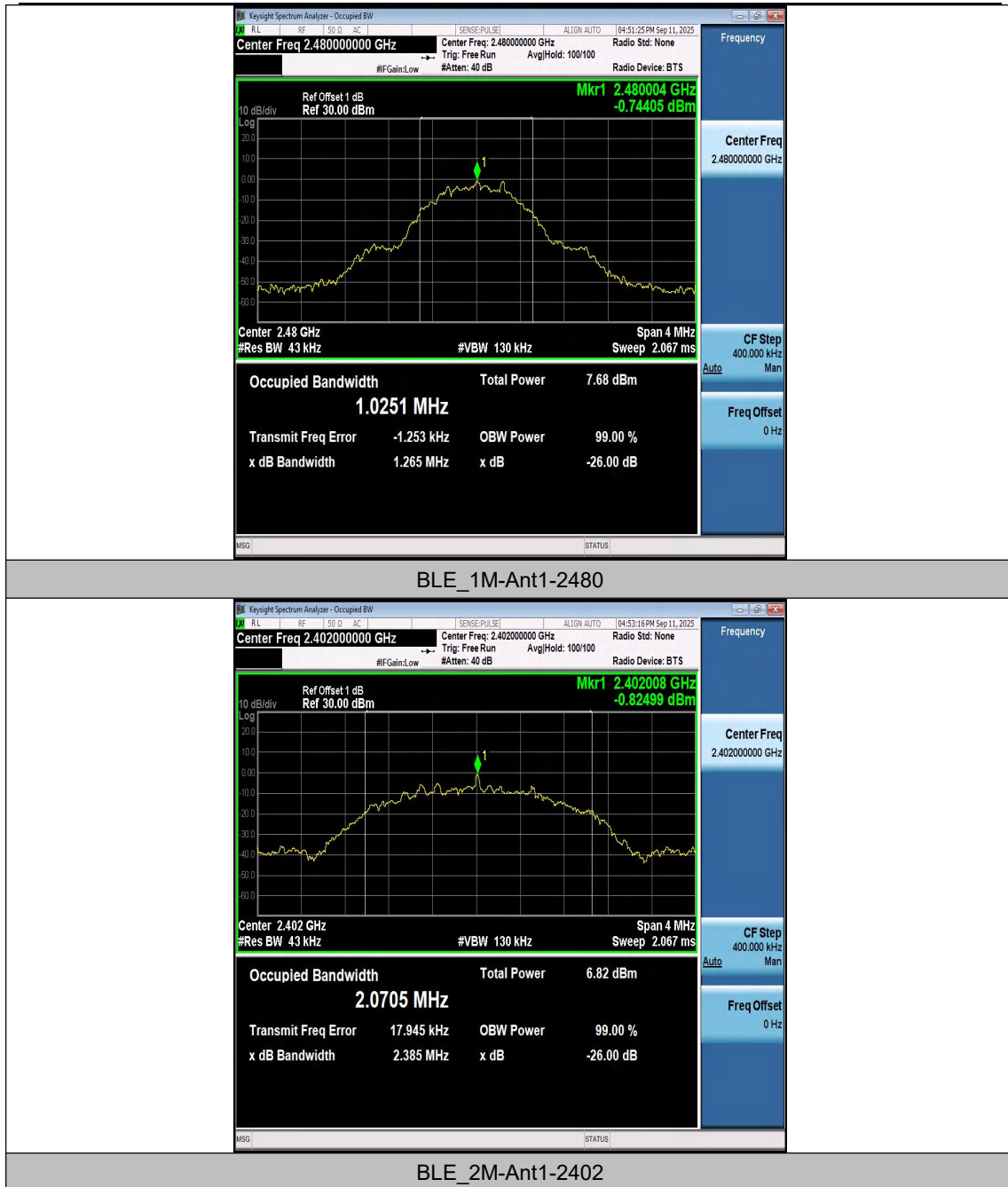
Test Graphs



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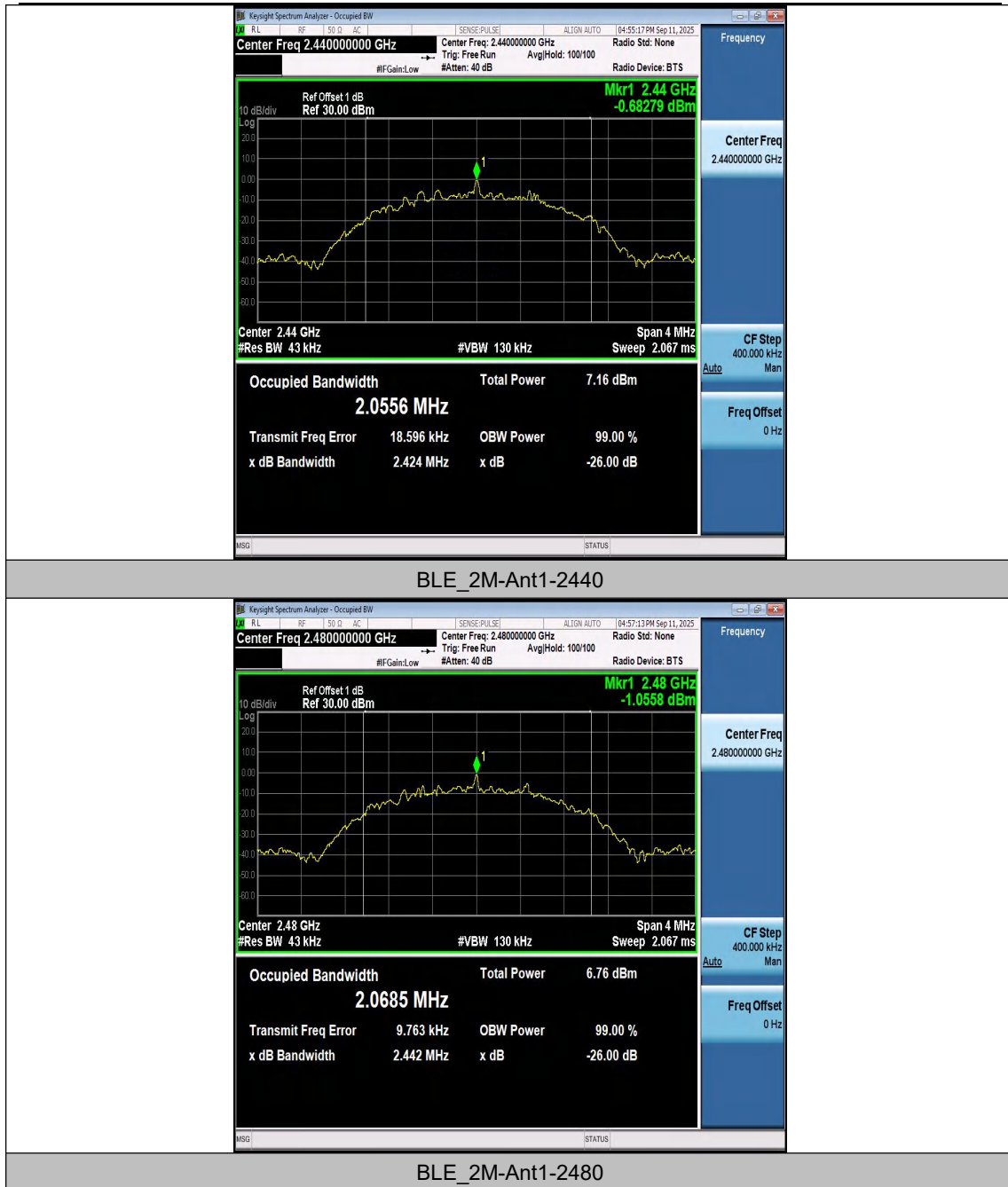
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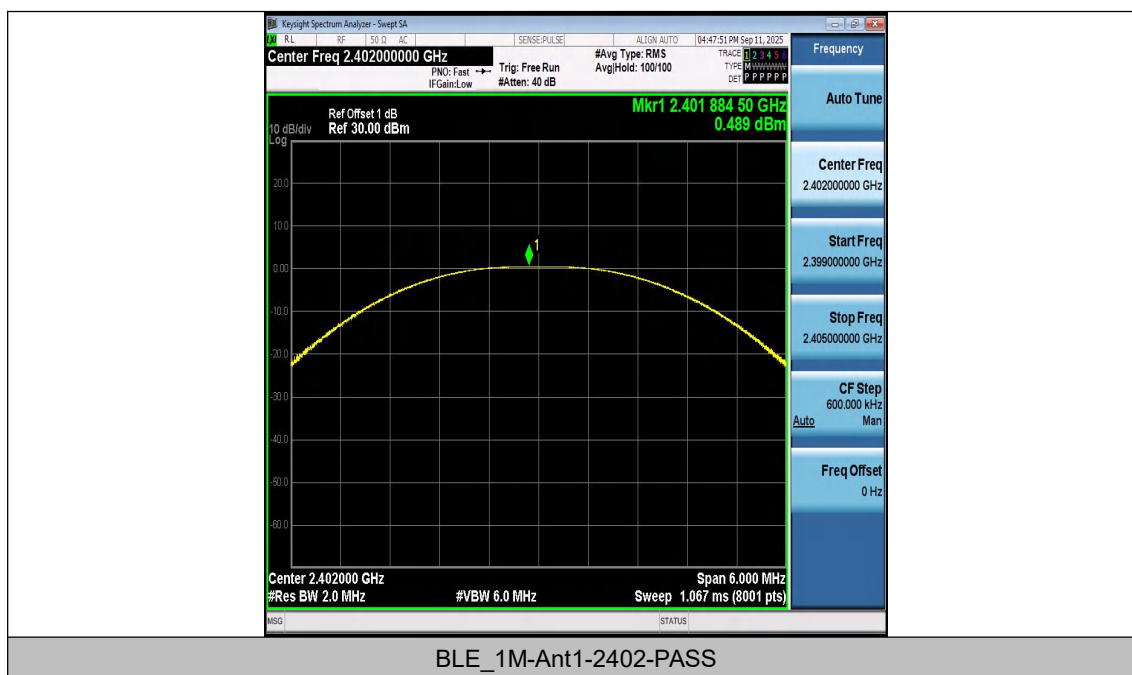
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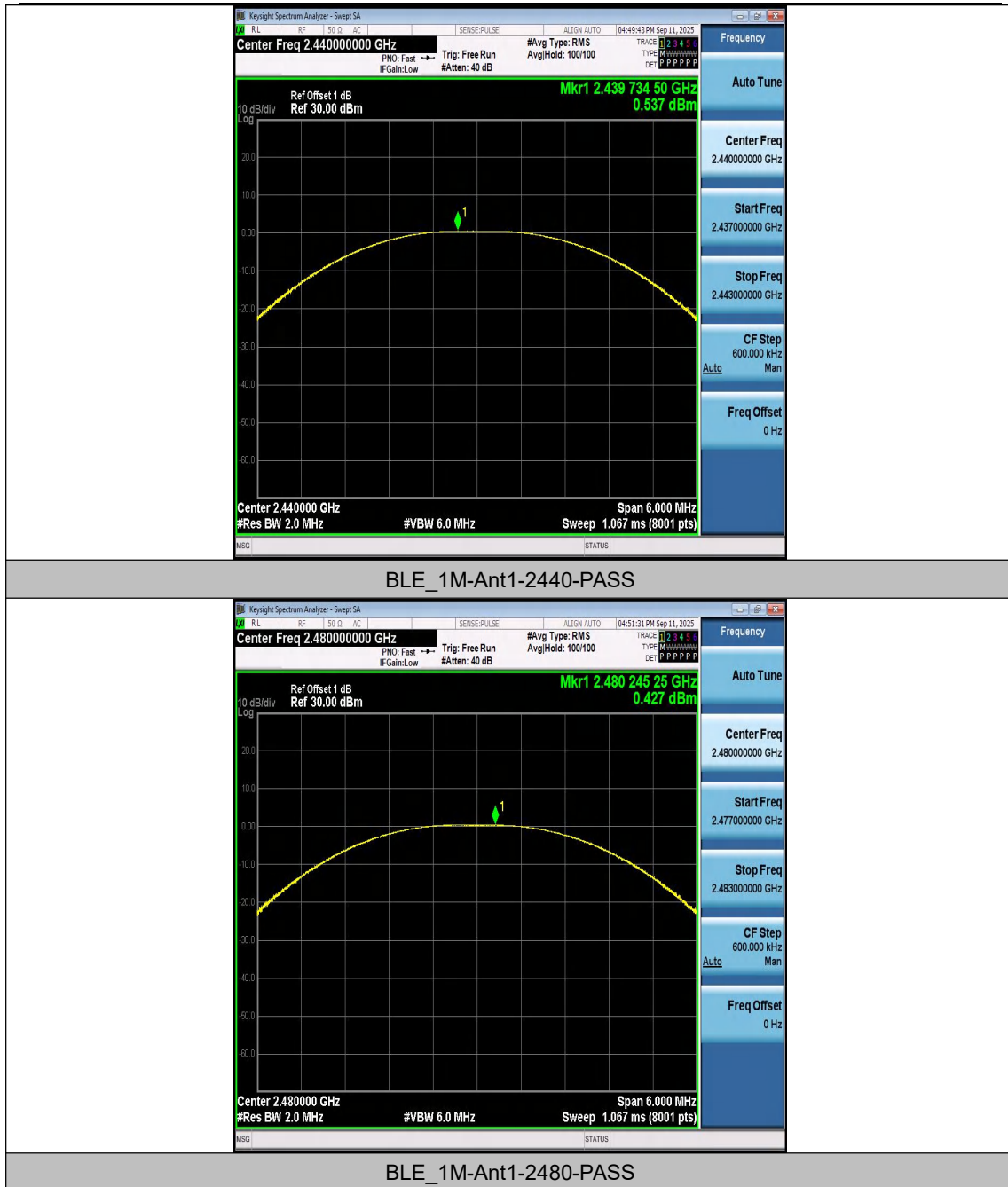
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.49	≤30	PASS
BLE_1M	Ant1	2440	0.54	≤30	PASS
BLE_1M	Ant1	2480	0.43	≤30	PASS
BLE_2M	Ant1	2402	0.54	≤30	PASS
BLE_2M	Ant1	2440	0.64	≤30	PASS
BLE_2M	Ant1	2480	0.58	≤30	PASS

Test Graphs Peak

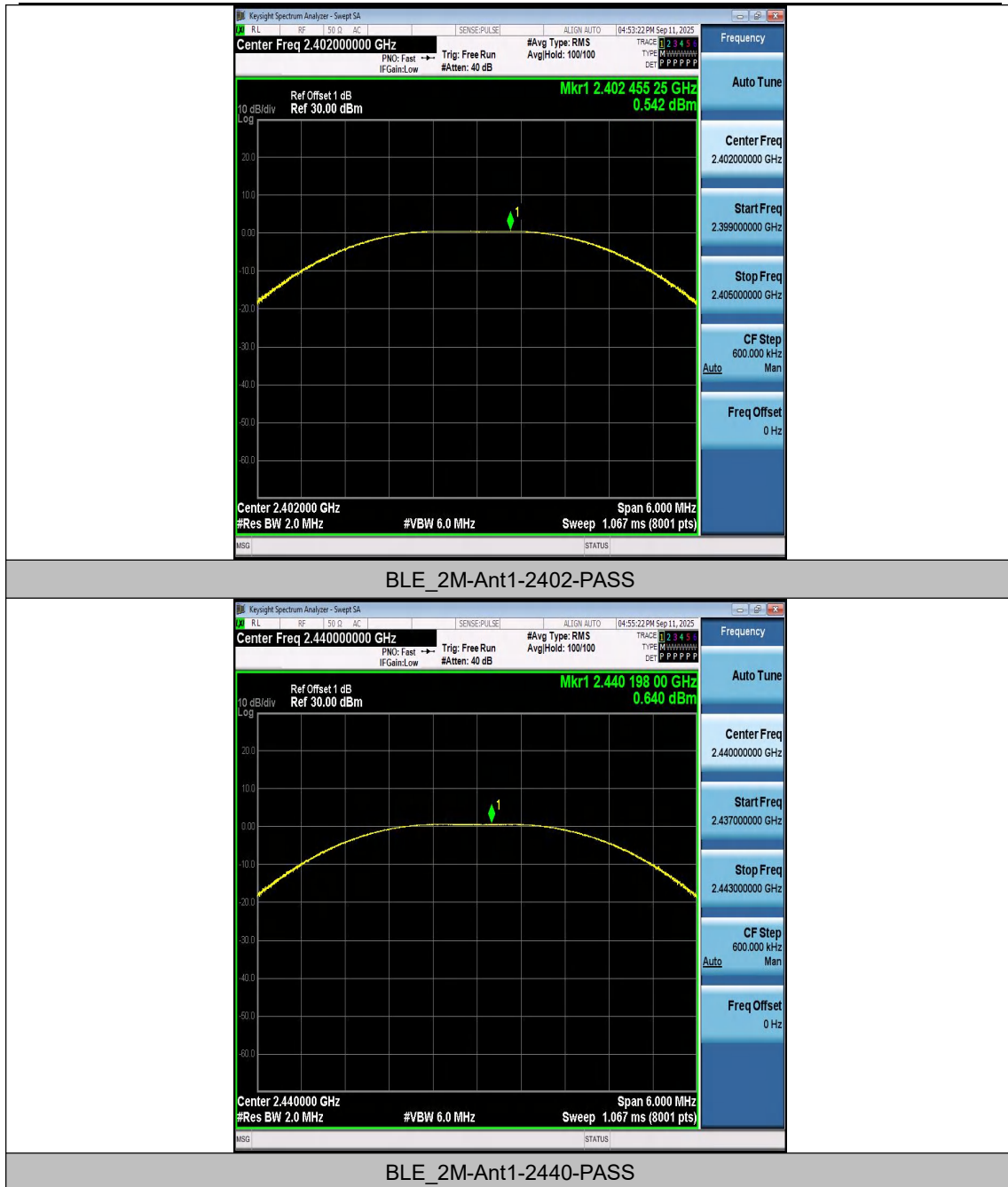




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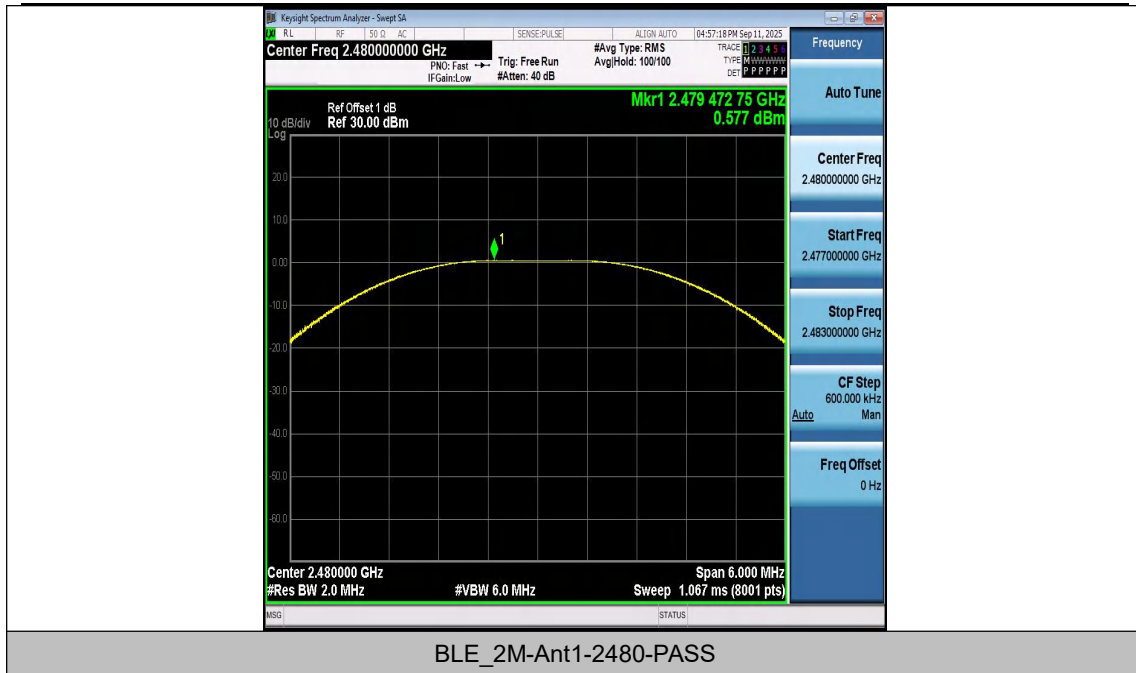
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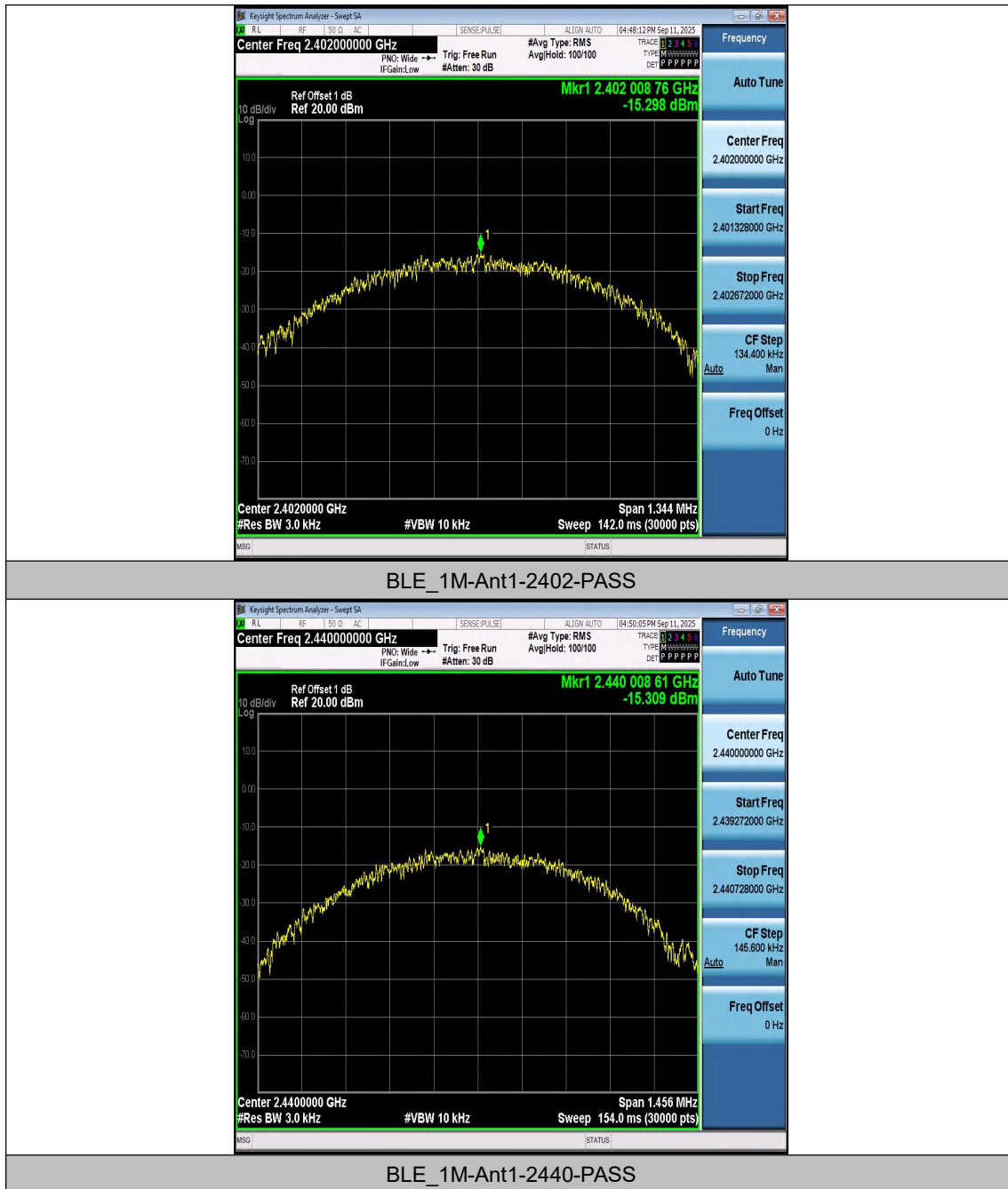
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.30	≤8.00	PASS
BLE_1M	Ant1	2440	-15.31	≤8.00	PASS
BLE_1M	Ant1	2480	-15.86	≤8.00	PASS
BLE_2M	Ant1	2402	-17.34	≤8.00	PASS
BLE_2M	Ant1	2440	-16.99	≤8.00	PASS
BLE_2M	Ant1	2480	-17.36	≤8.00	PASS

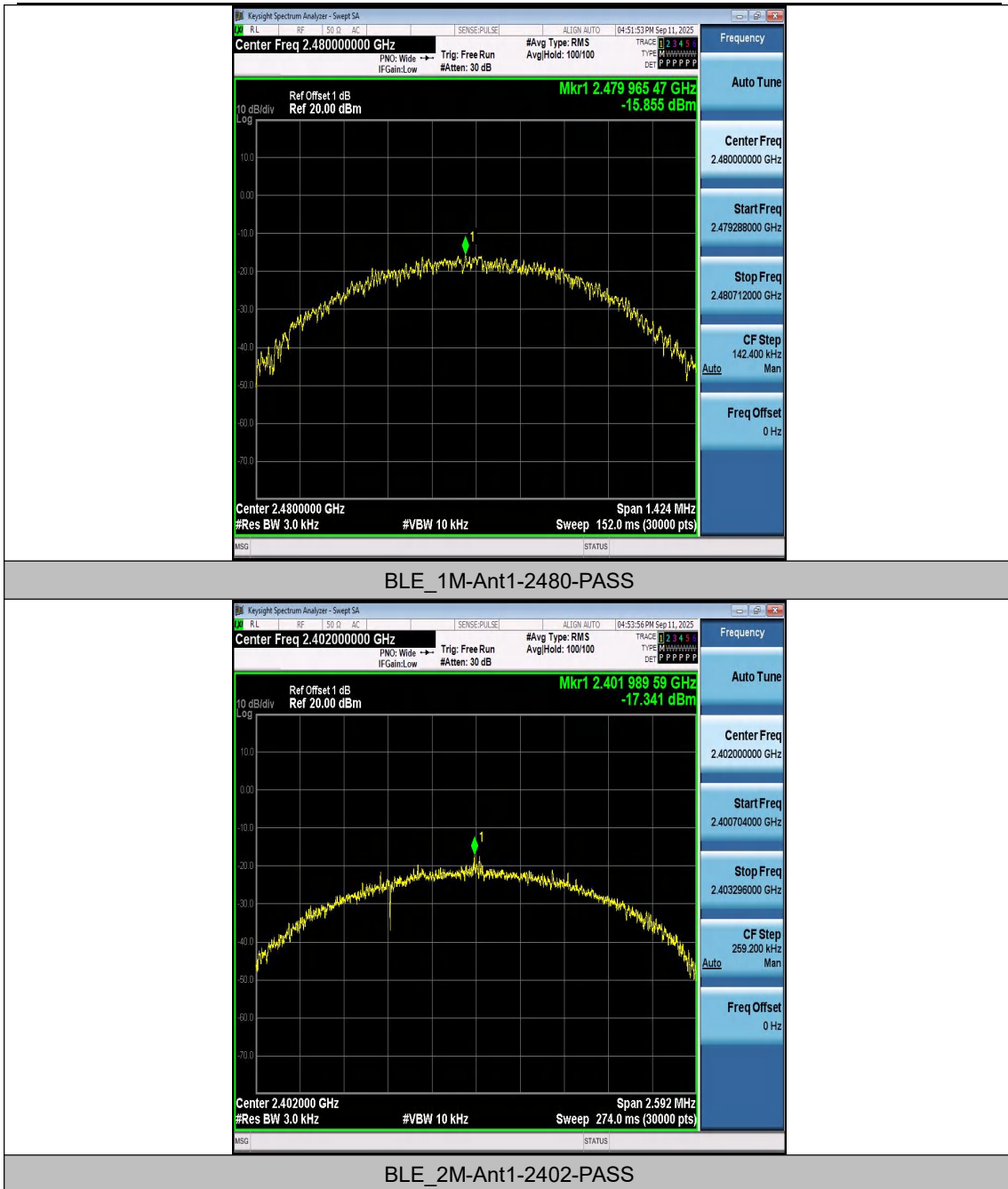
Test Graphs



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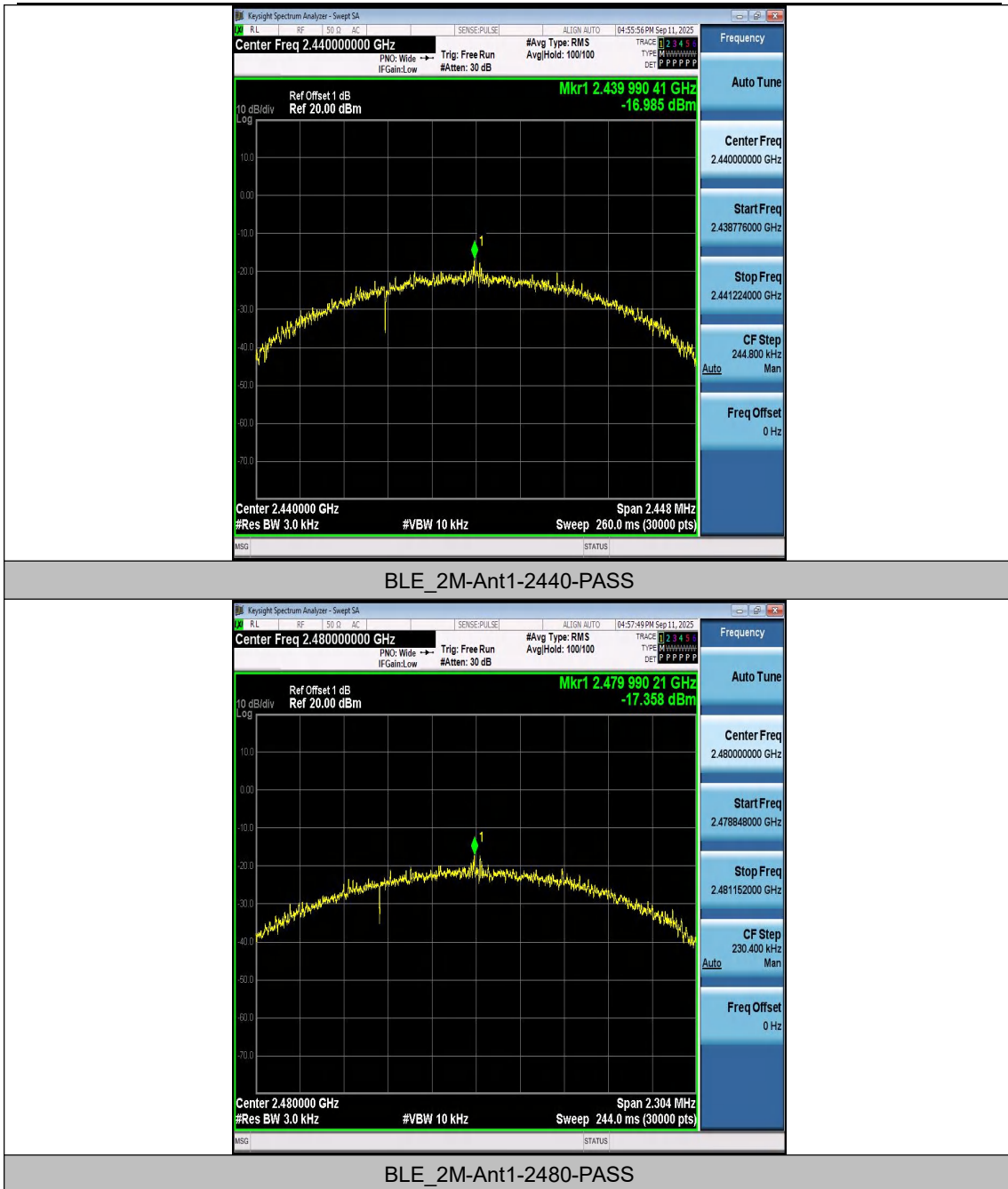
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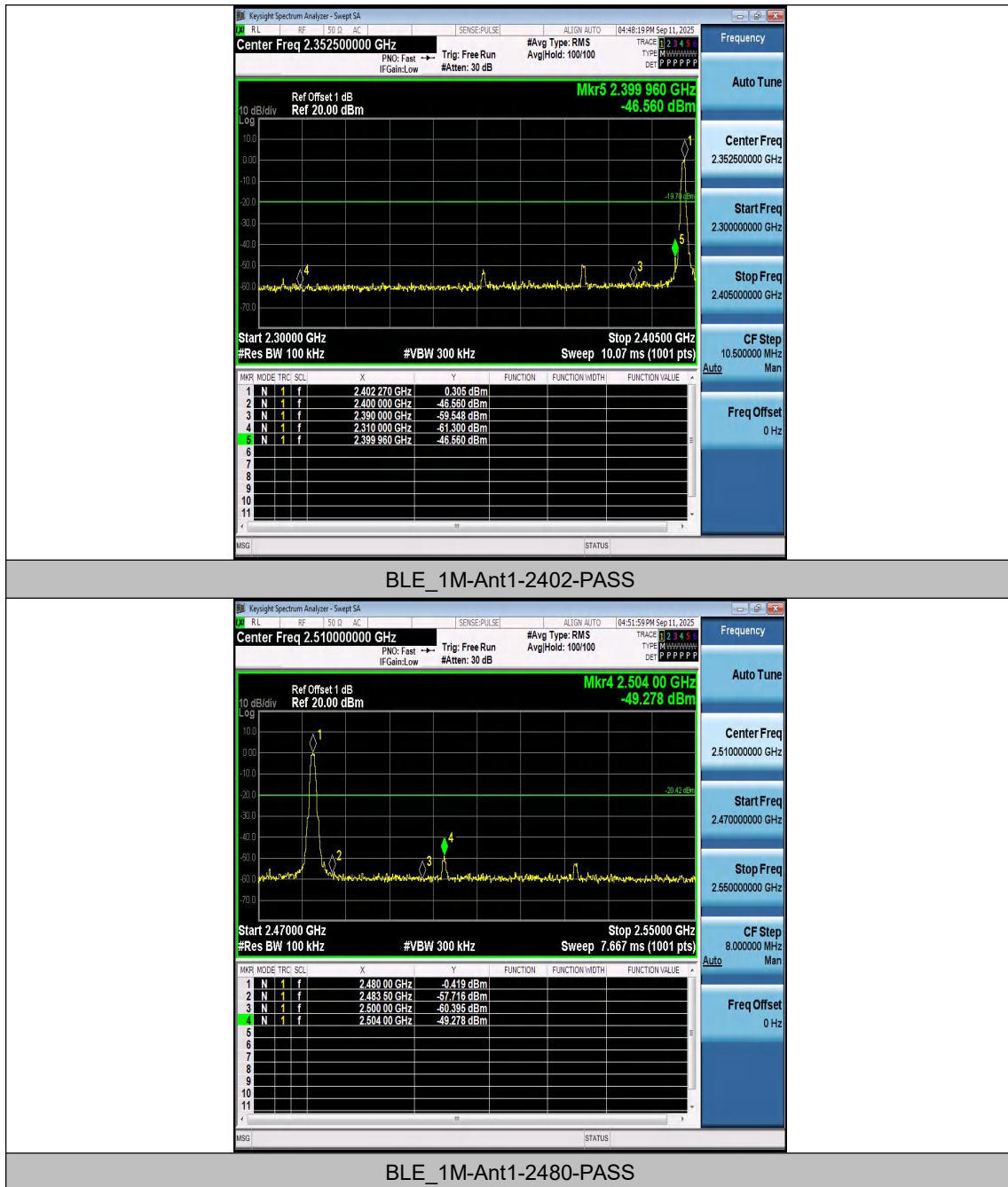
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.31	-46.56	≤-19.7	PASS
BLE_1M	Ant1	High	2480	-0.42	-49.28	≤-20.42	PASS
BLE_2M	Ant1	Low	2402	-2.11	-34.37	≤-22.11	PASS
BLE_2M	Ant1	High	2480	-1.60	-52.49	≤-21.6	PASS

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

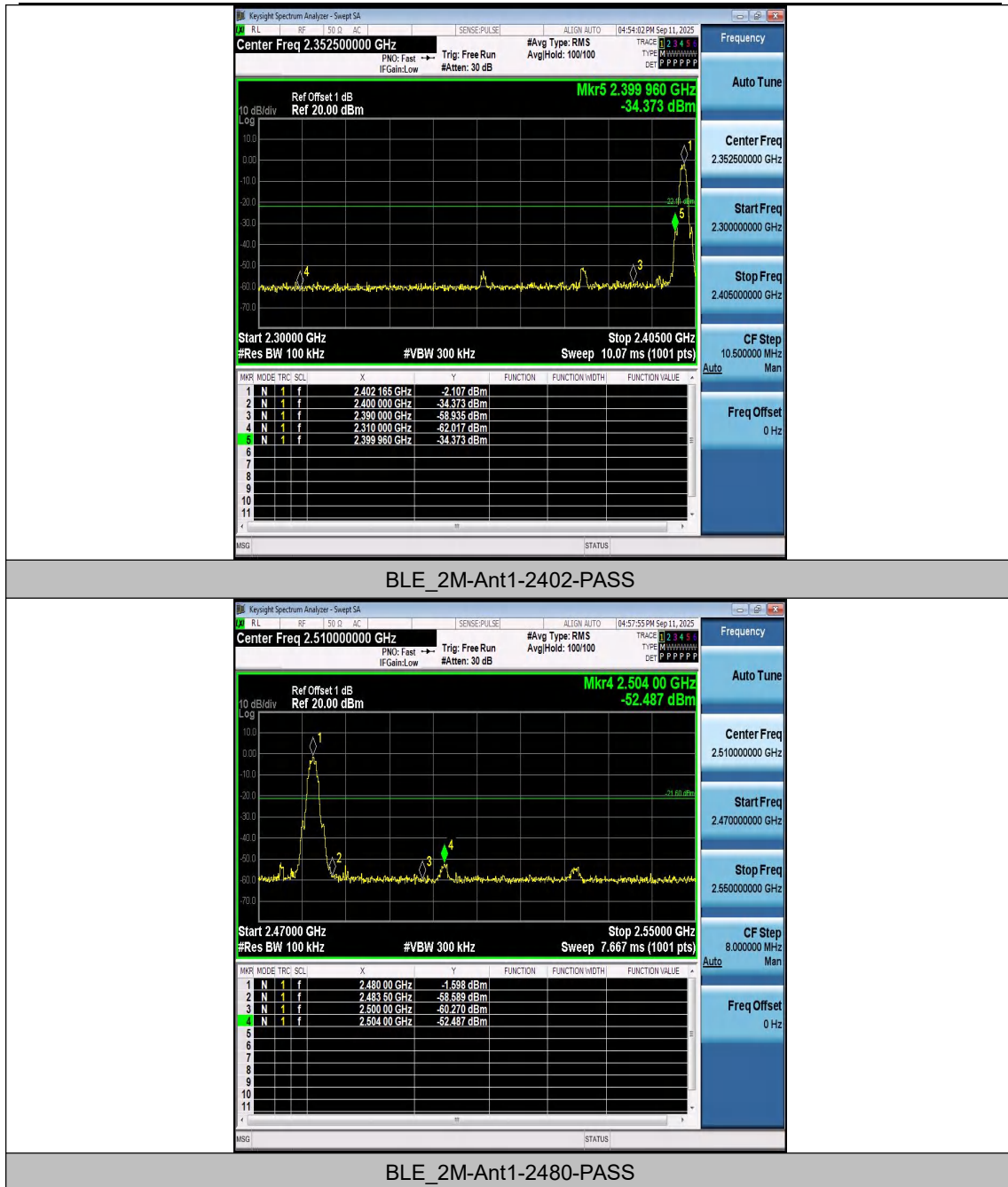
Test Graphs



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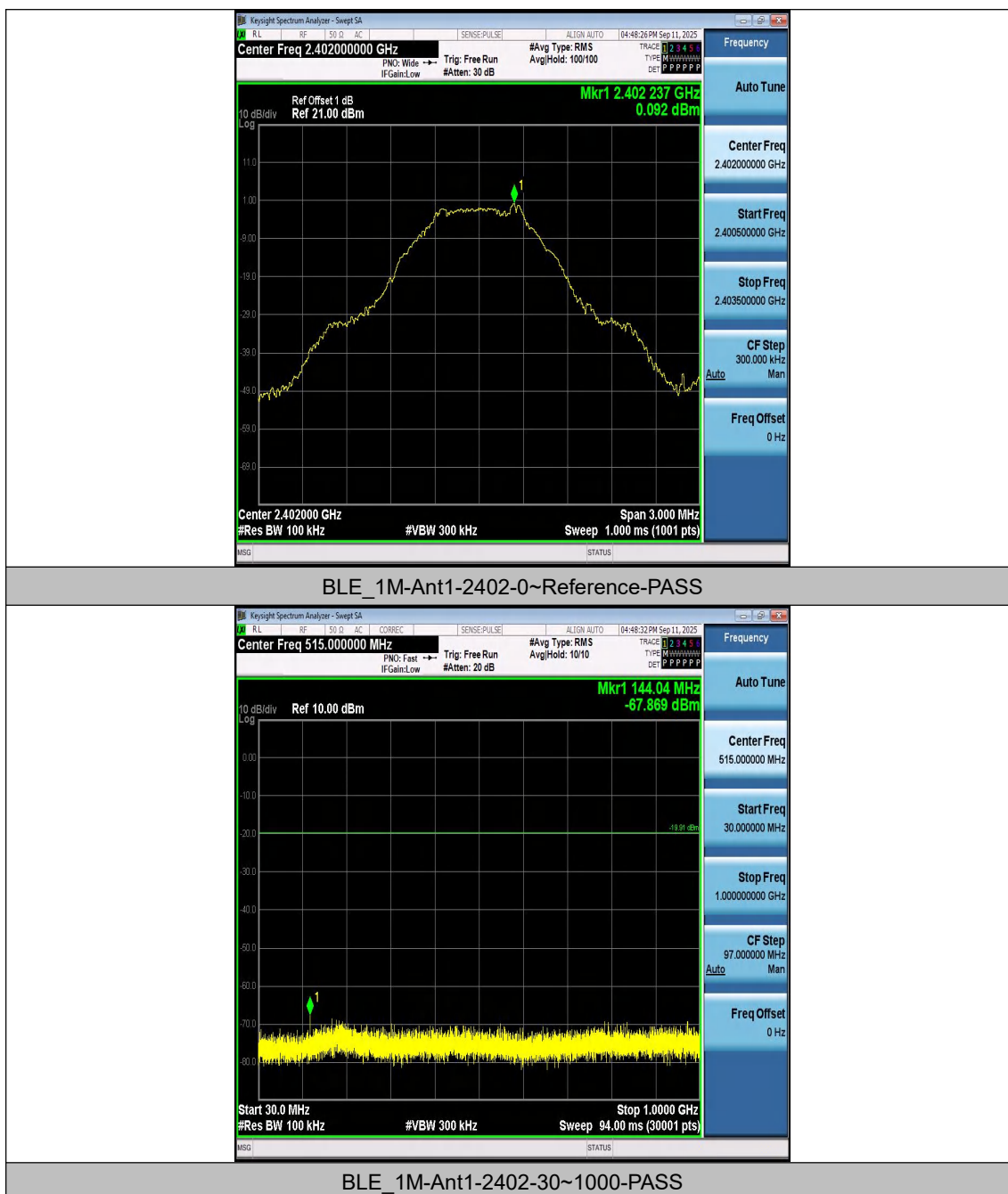
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.09	0.09	---	PASS
BLE_1M	Ant1	2402	30~1000	0.09	-67.87	≤-19.91	PASS
BLE_1M	Ant1	2402	1000~26500	0.09	-47.05	≤-19.91	PASS
BLE_1M	Ant1	2440	0~Reference	-0.45	-0.45	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.45	-66.81	≤-20.45	PASS
BLE_1M	Ant1	2440	1000~26500	-0.45	-45.41	≤-20.45	PASS
BLE_1M	Ant1	2480	0~Reference	0.28	0.28	---	PASS
BLE_1M	Ant1	2480	30~1000	0.28	-68.37	≤-19.72	PASS
BLE_1M	Ant1	2480	1000~26500	0.28	-48.52	≤-19.72	PASS
BLE_2M	Ant1	2402	0~Reference	0.38	0.38	---	PASS
BLE_2M	Ant1	2402	30~1000	0.38	-69.25	≤-19.62	PASS
BLE_2M	Ant1	2402	1000~26500	0.38	-47.52	≤-19.62	PASS
BLE_2M	Ant1	2440	0~Reference	-1.89	-1.89	---	PASS
BLE_2M	Ant1	2440	30~1000	-1.89	-67.14	≤-21.89	PASS
BLE_2M	Ant1	2440	1000~26500	-1.89	-47.96	≤-21.89	PASS
BLE_2M	Ant1	2480	0~Reference	0.37	0.37	---	PASS
BLE_2M	Ant1	2480	30~1000	0.37	-66.55	≤-19.63	PASS
BLE_2M	Ant1	2480	1000~26500	0.37	-47.57	≤-19.63	PASS

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

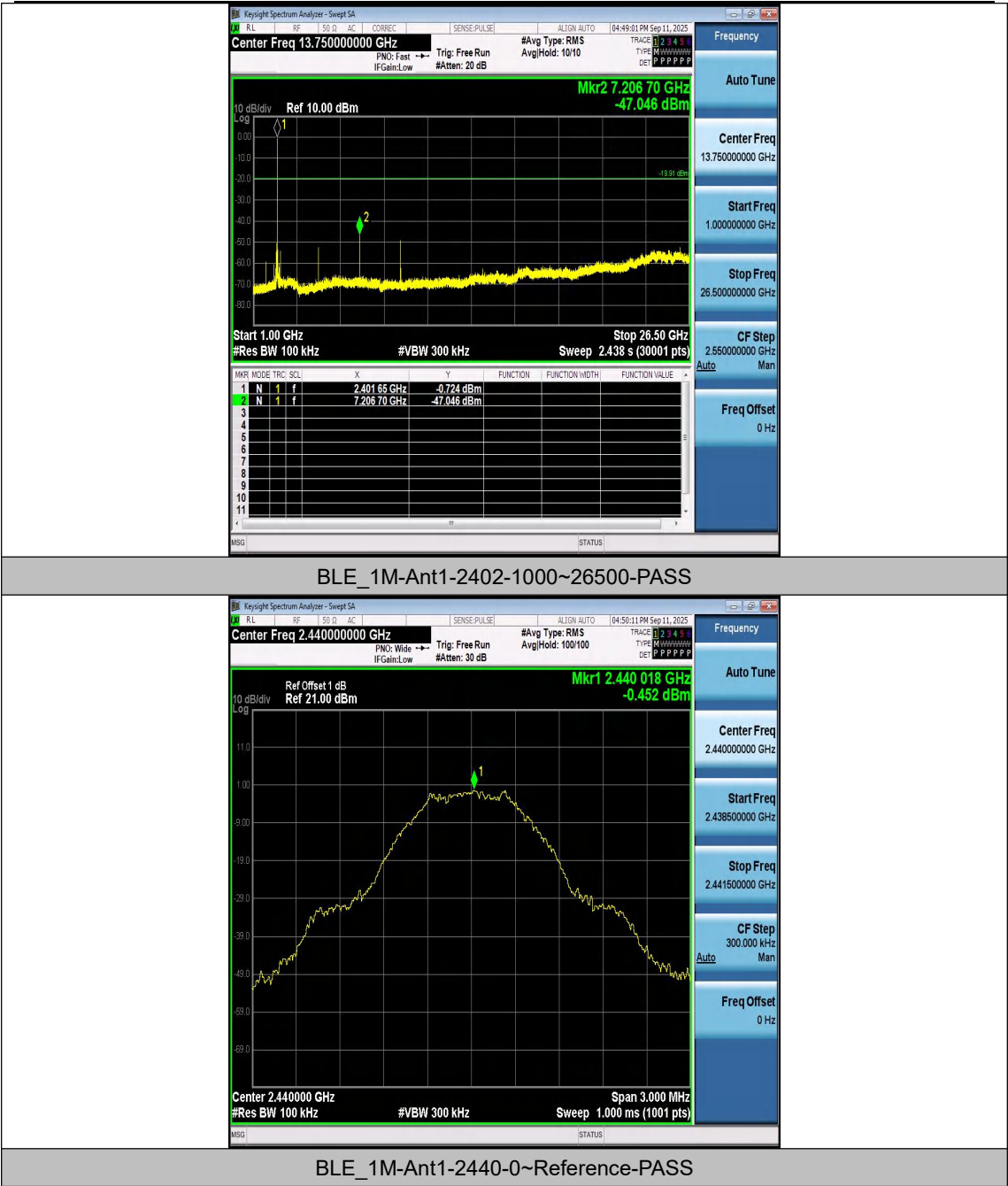
Test Graphs



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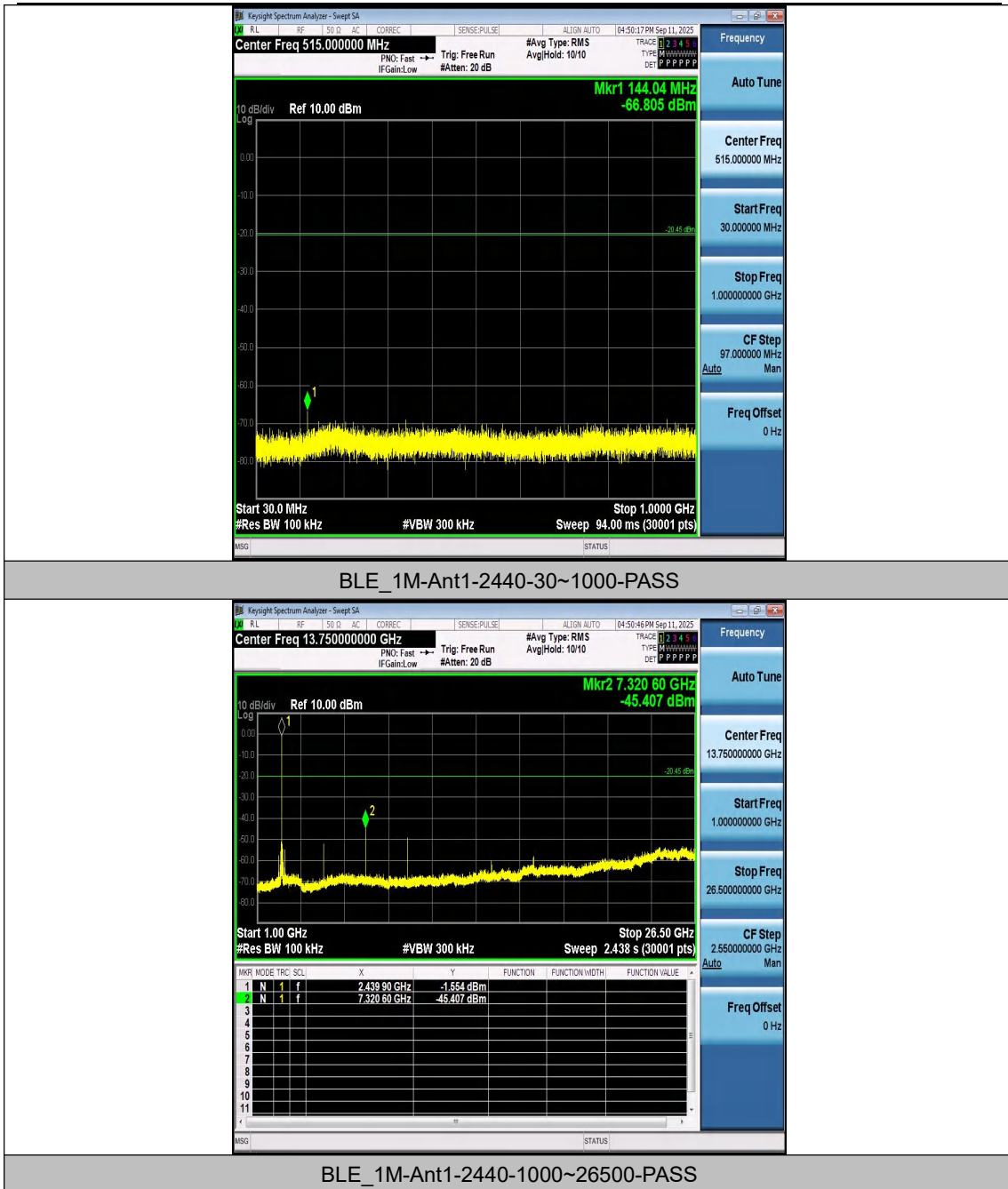
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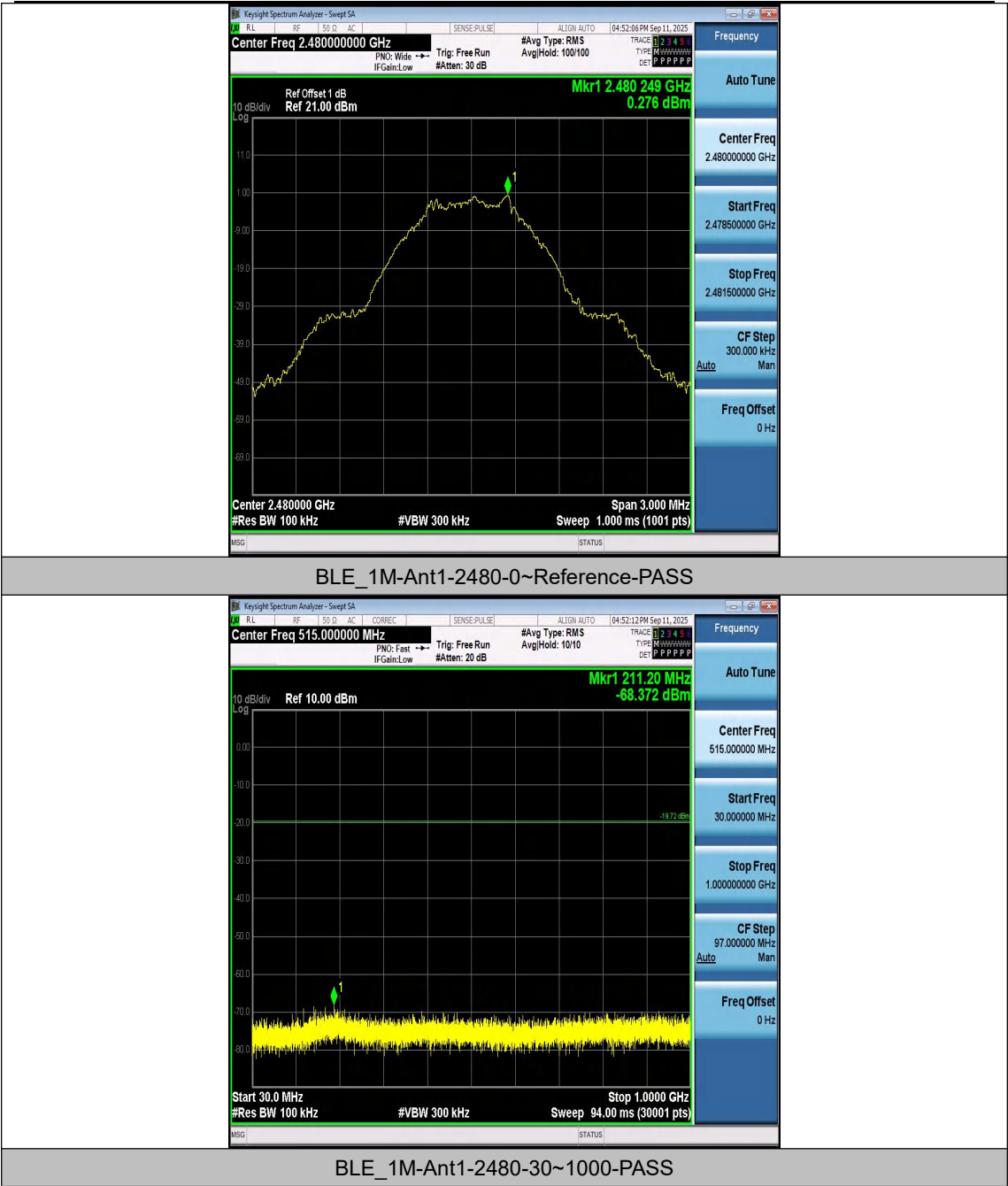
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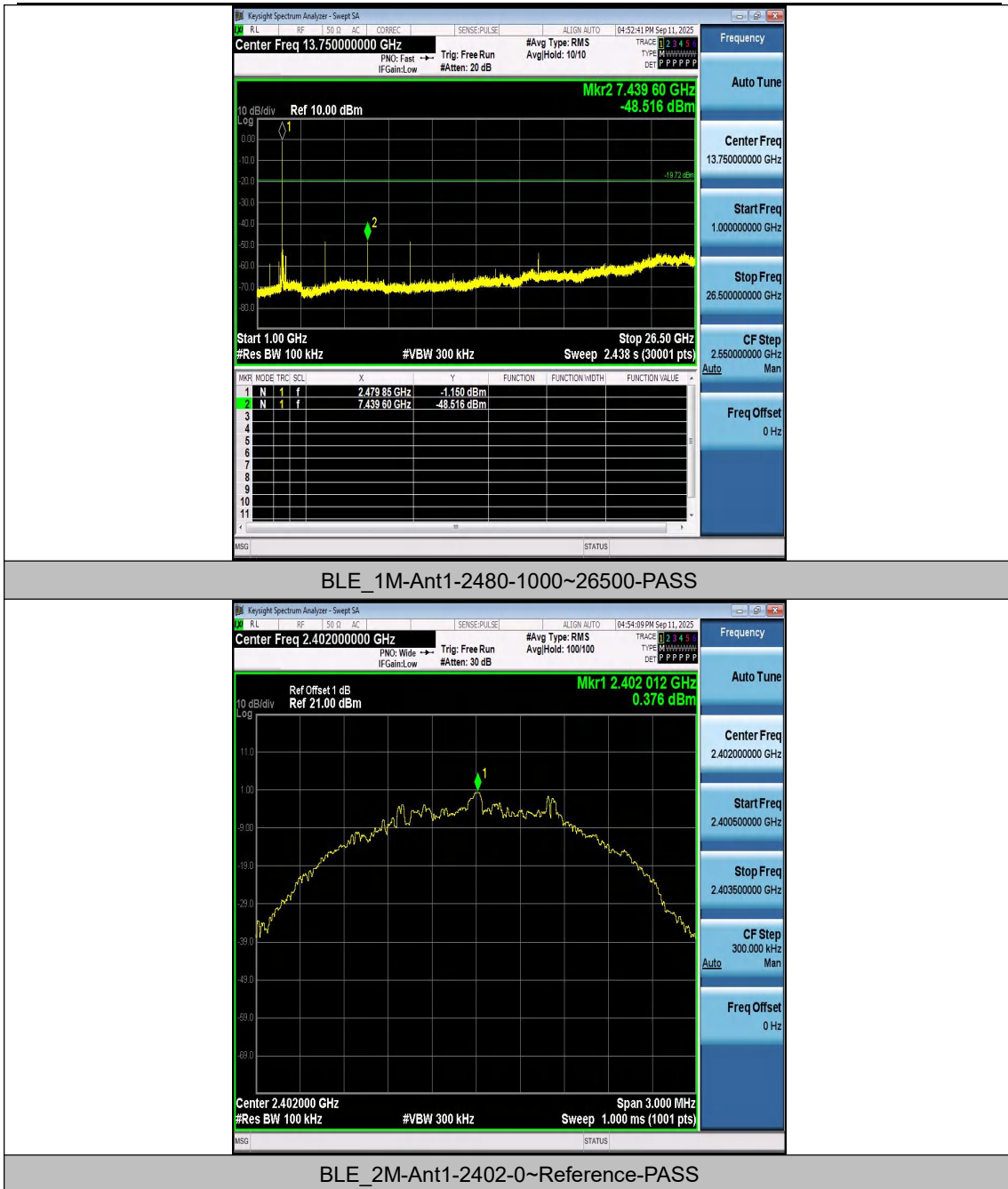
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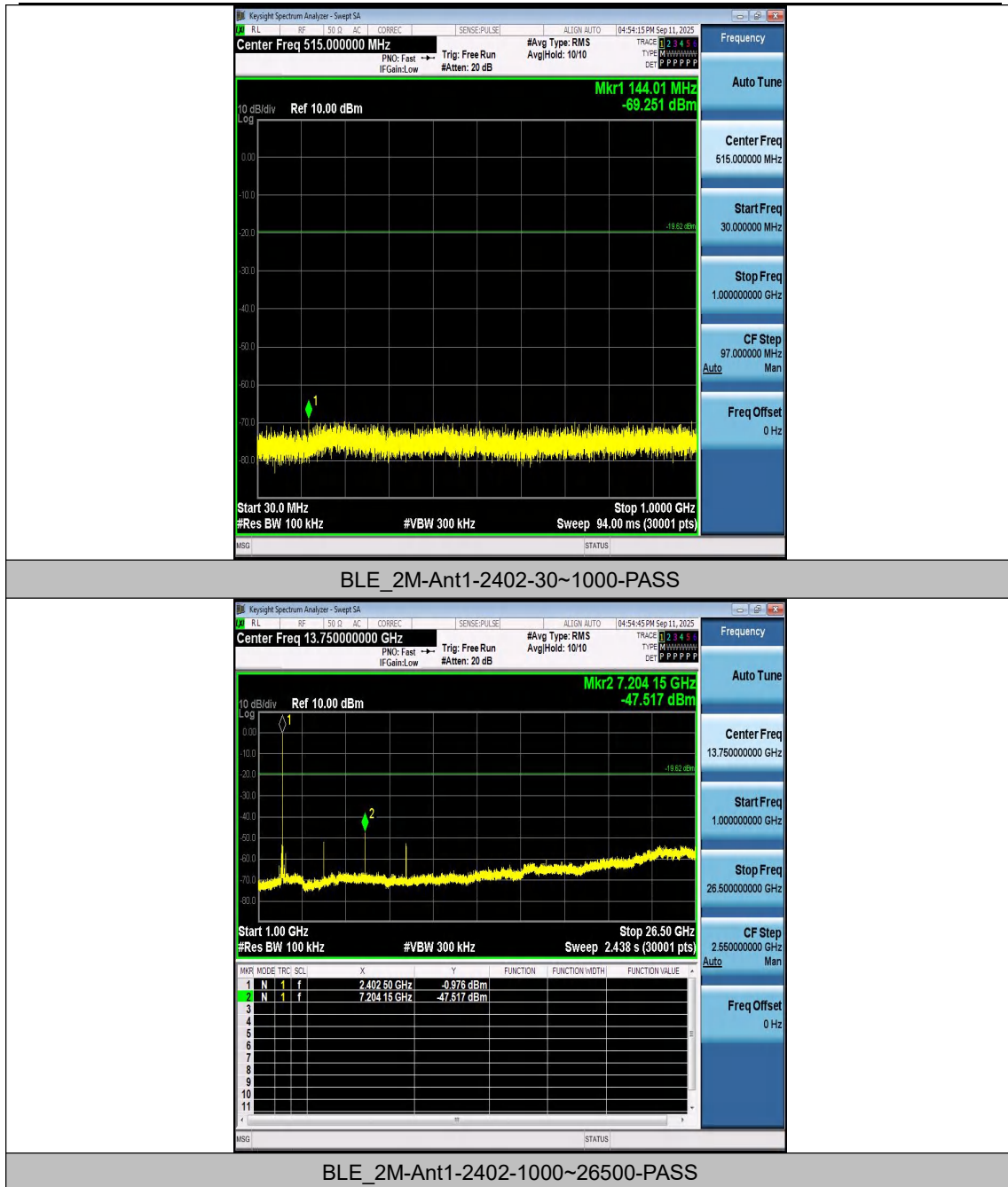
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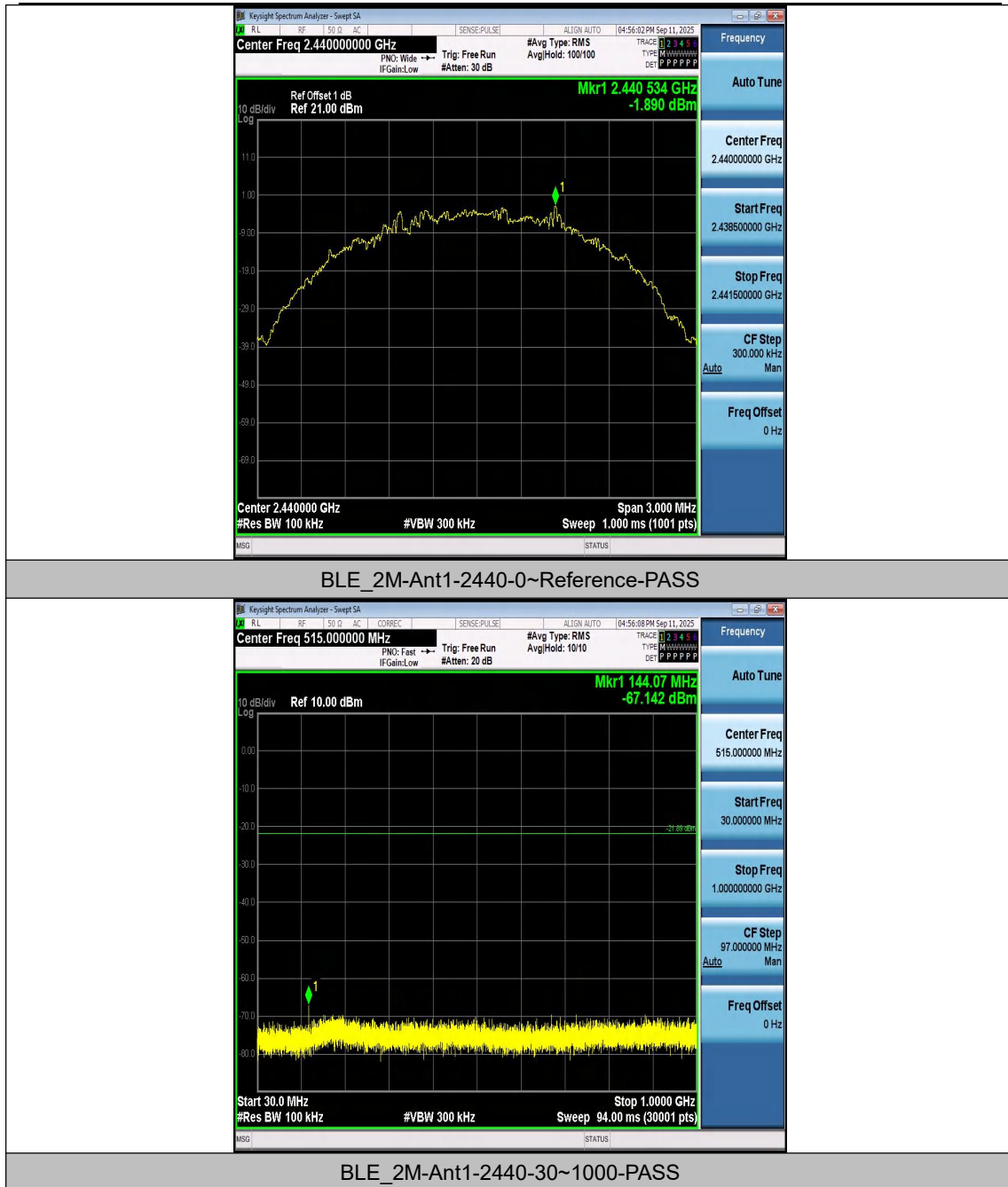
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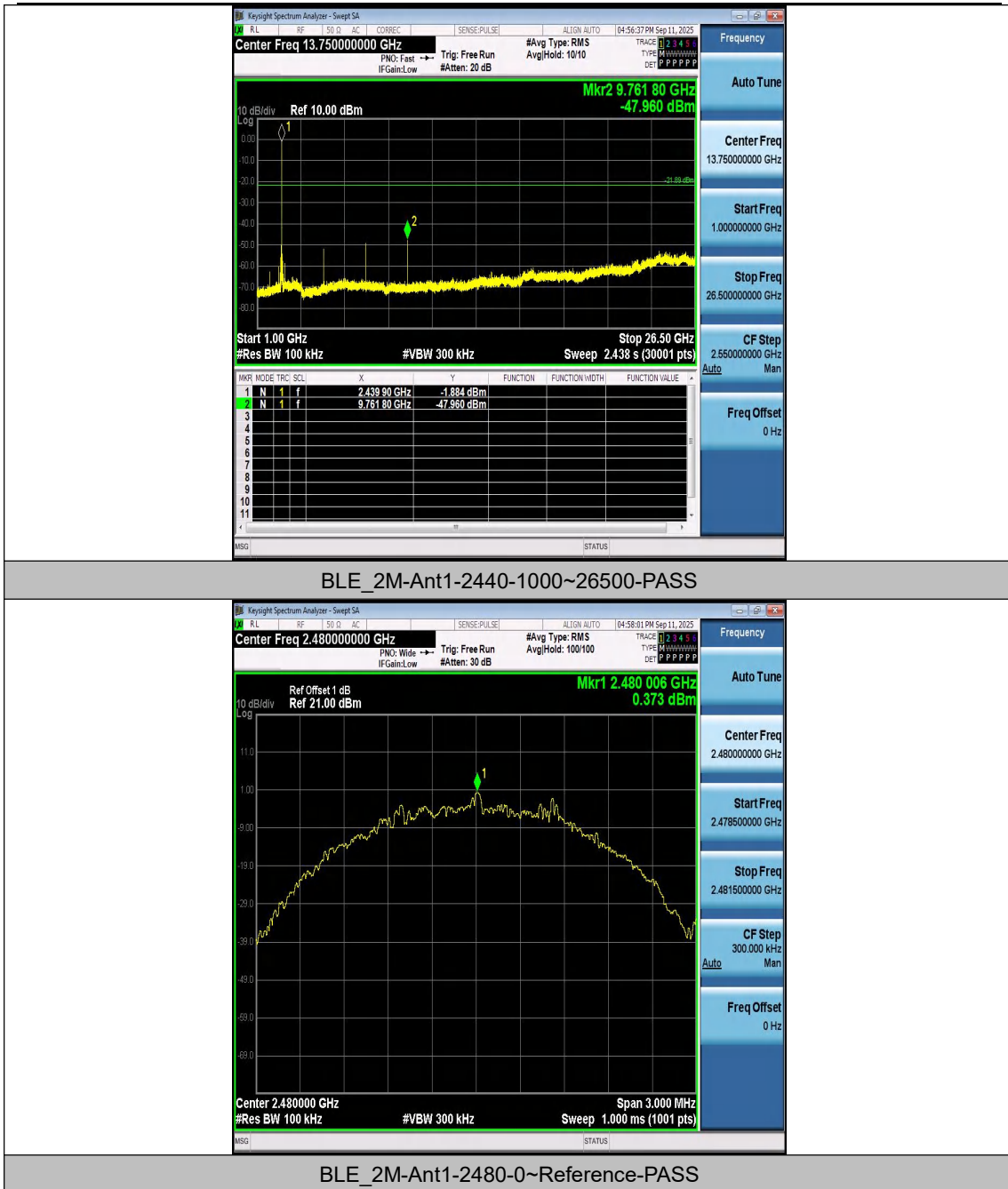
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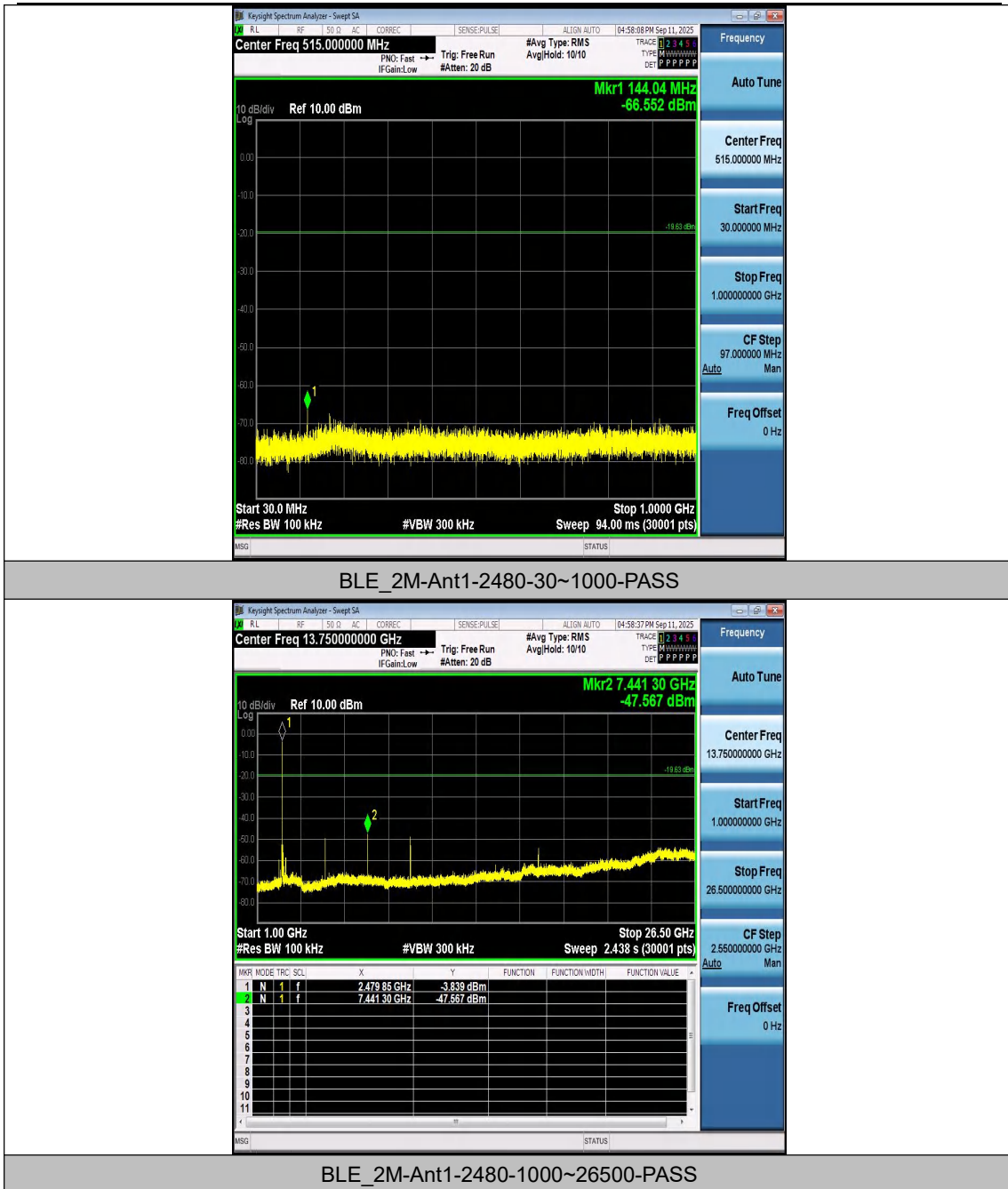
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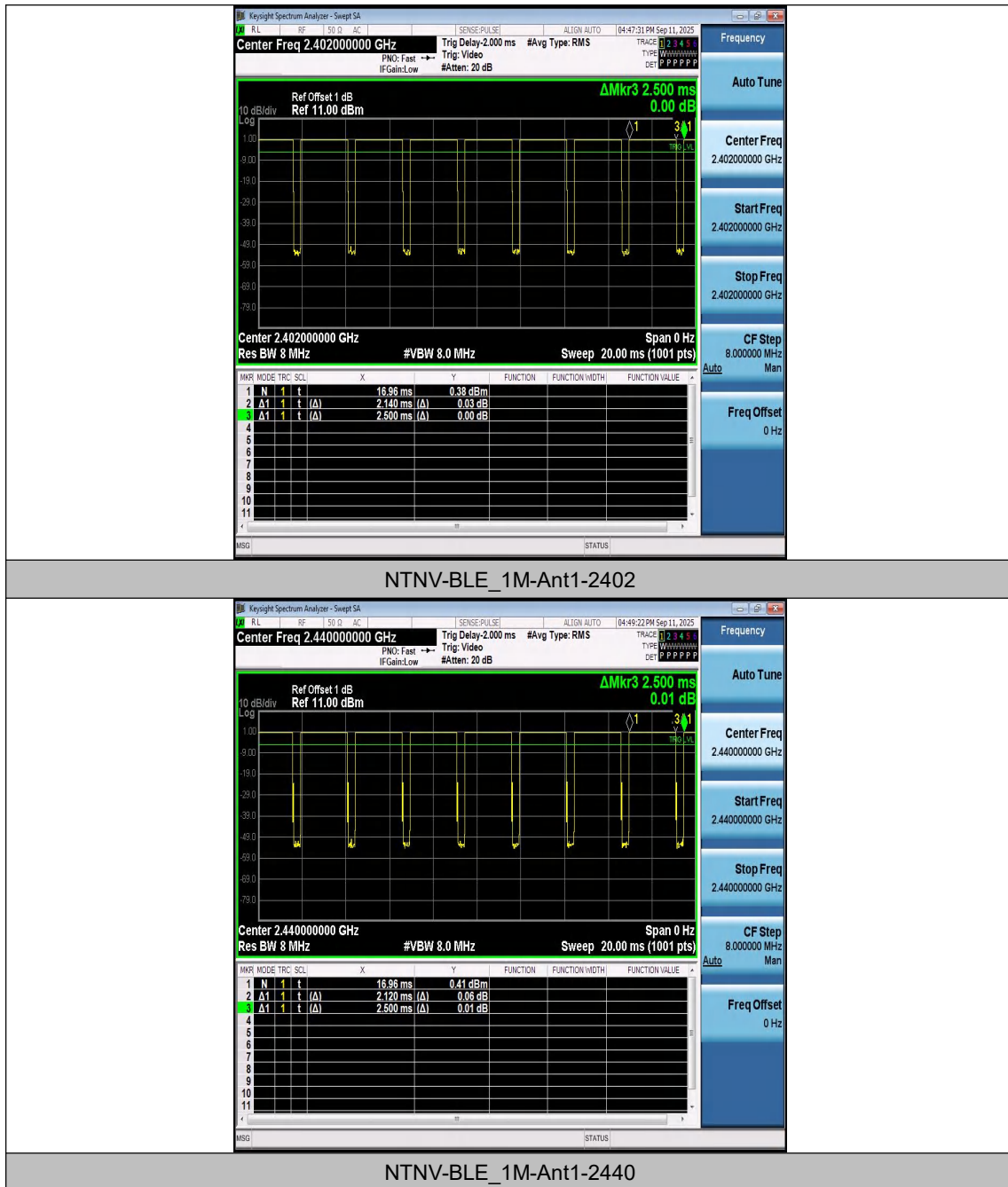
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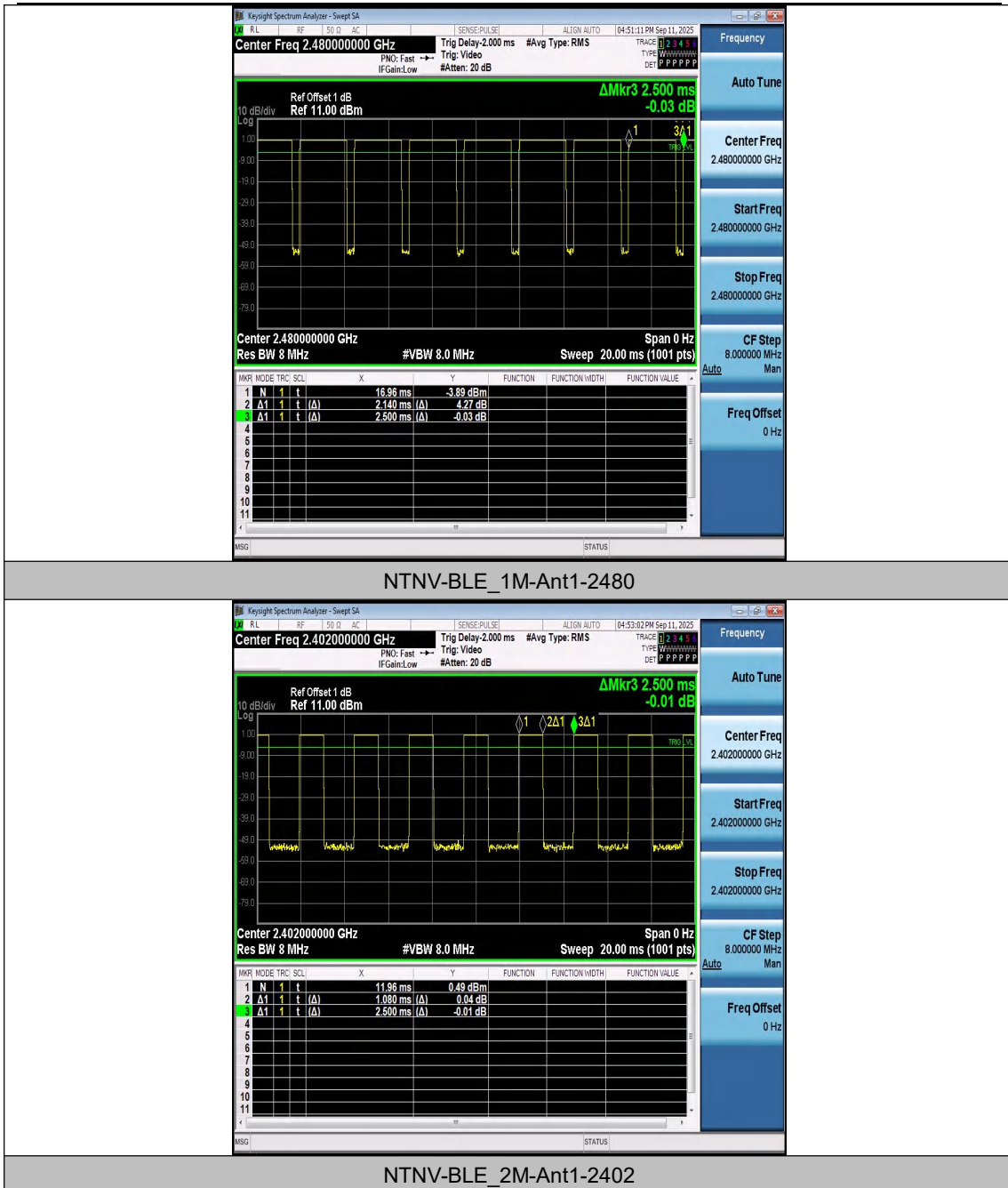
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.14	2.50	85.60	0.68
BLE_1M	Ant1	2440	2.12	2.50	84.80	0.72
BLE_1M	Ant1	2480	2.14	2.50	85.60	0.68
BLE_2M	Ant1	2402	1.08	2.50	43.20	3.65
BLE_2M	Ant1	2440	1.10	2.50	44.00	3.57
BLE_2M	Ant1	2480	1.08	2.50	43.20	3.65

Test Graphs





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