

Appendix Test Data

Report No.:	1818C50179612501-01	Test Sample No.:	1-2-2
Start Test Date:	2025-10-19	Finish Test Date:	2025-10-19
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26.7°C	Relative Humidity:	60%
Pressure:	101kPa		

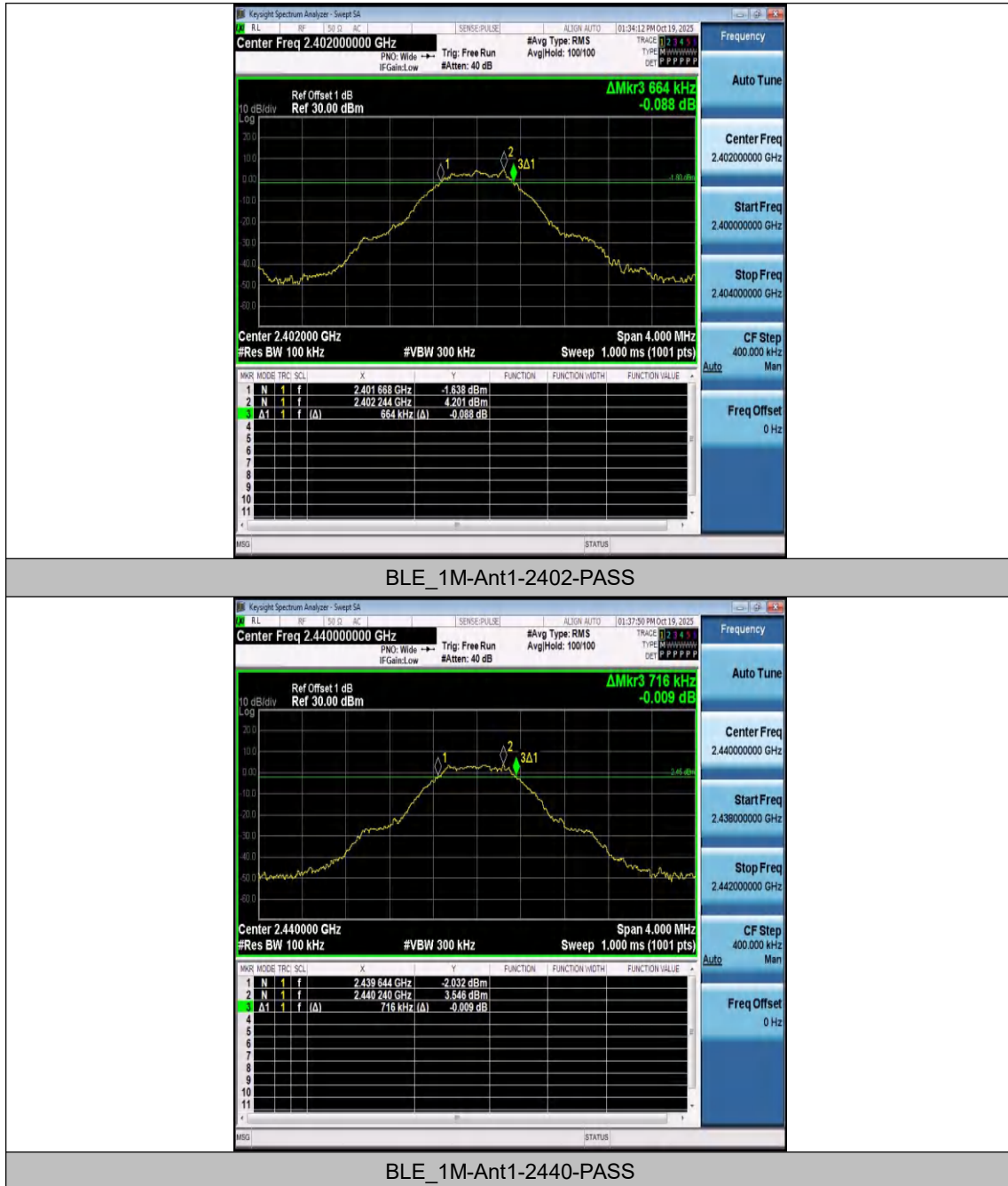


Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.668	2402.332	0.5	PASS
BLE_1M	Ant1	2440	0.716	2439.644	2440.360	0.5	PASS
BLE_1M	Ant1	2480	0.700	2479.656	2480.356	0.5	PASS
BLE_2M	Ant1	2402	1.104	2401.448	2402.552	0.5	PASS
BLE_2M	Ant1	2440	1.328	2439.336	2440.664	0.5	PASS
BLE_2M	Ant1	2480	1.216	2479.344	2480.560	0.5	PASS

Test Graphs



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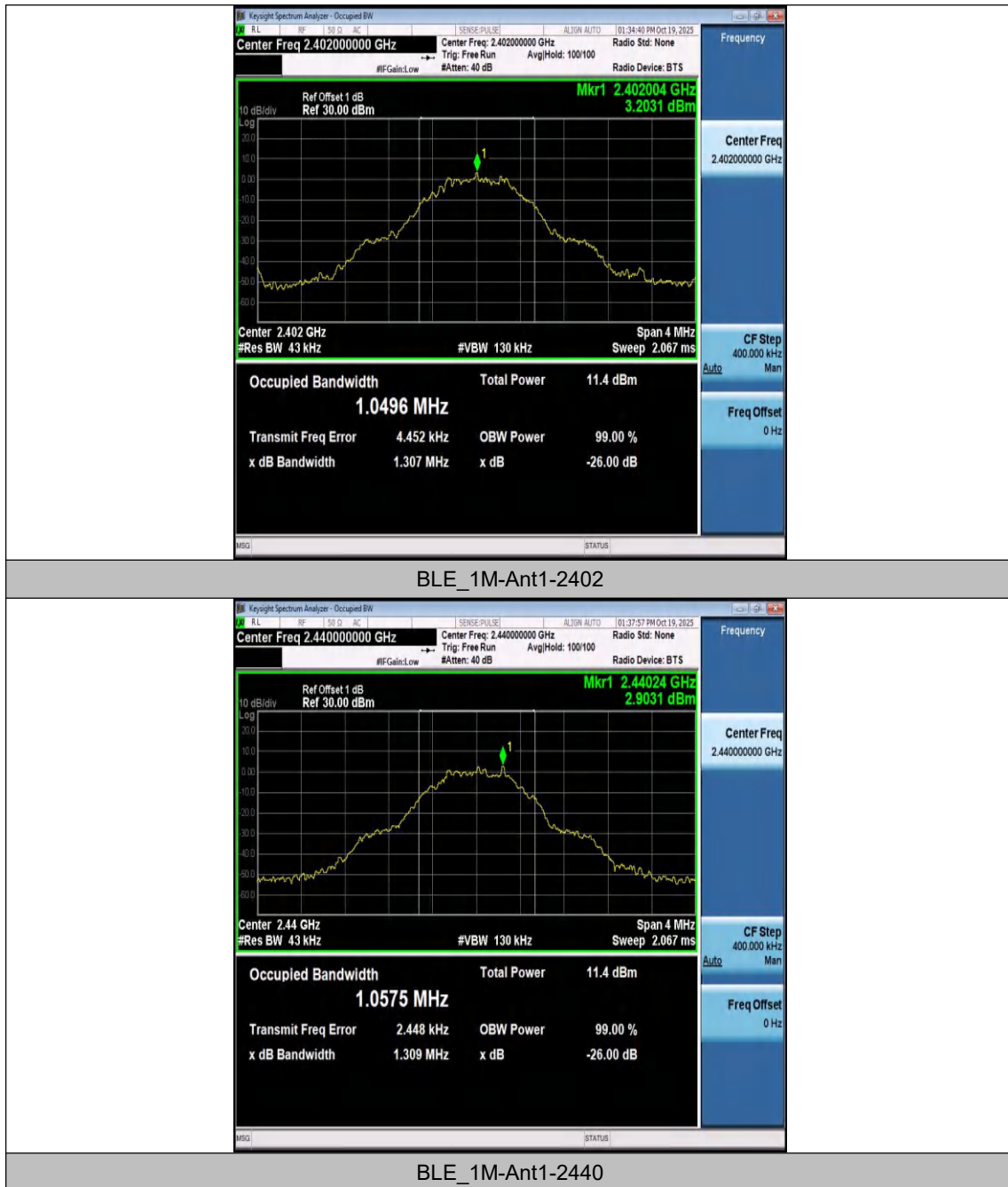
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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0496	2401.4797	2402.5293	---	---
BLE_1M	Ant1	2440	1.0575	2439.4737	2440.5312	---	---
BLE_1M	Ant1	2480	1.0587	2479.4739	2480.5326	---	---
BLE_2M	Ant1	2402	2.0900	2400.9730	2403.0630	---	---
BLE_2M	Ant1	2440	2.0668	2438.9884	2441.0552	---	---
BLE_2M	Ant1	2480	2.0485	2478.9921	2481.0406	---	---

Test Graphs



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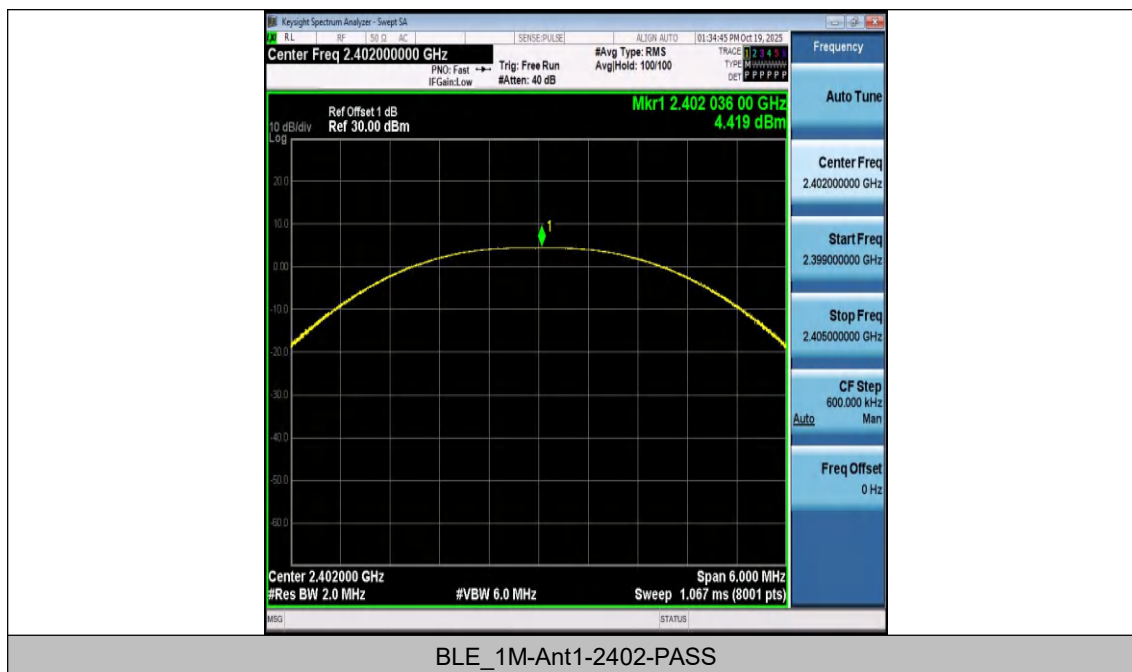
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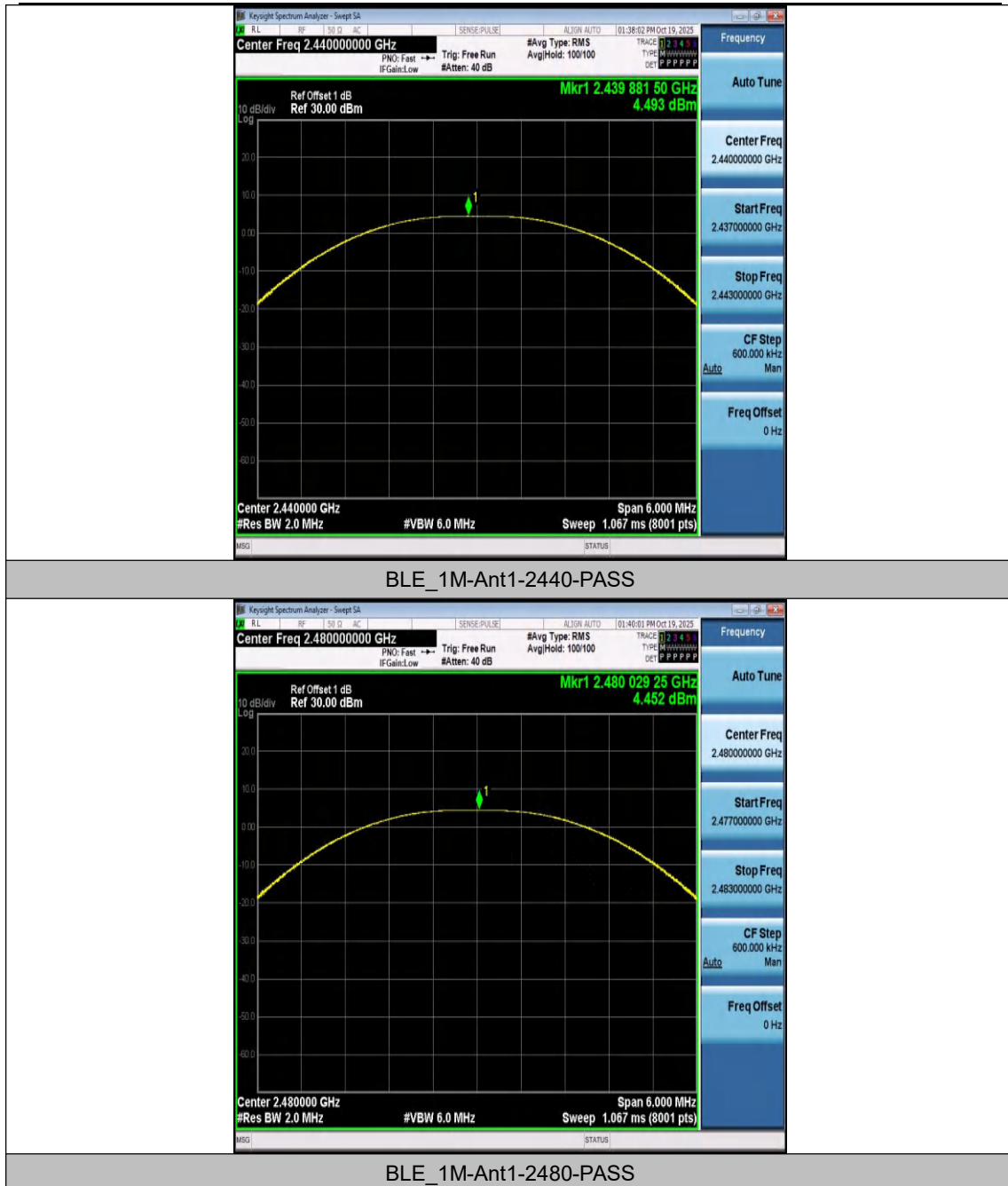
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	4.42	≤30	PASS
BLE_1M	Ant1	2440	4.49	≤30	PASS
BLE_1M	Ant1	2480	4.45	≤30	PASS
BLE_2M	Ant1	2402	4.52	≤30	PASS
BLE_2M	Ant1	2440	4.64	≤30	PASS
BLE_2M	Ant1	2480	4.61	≤30	PASS

Test Graphs Peak

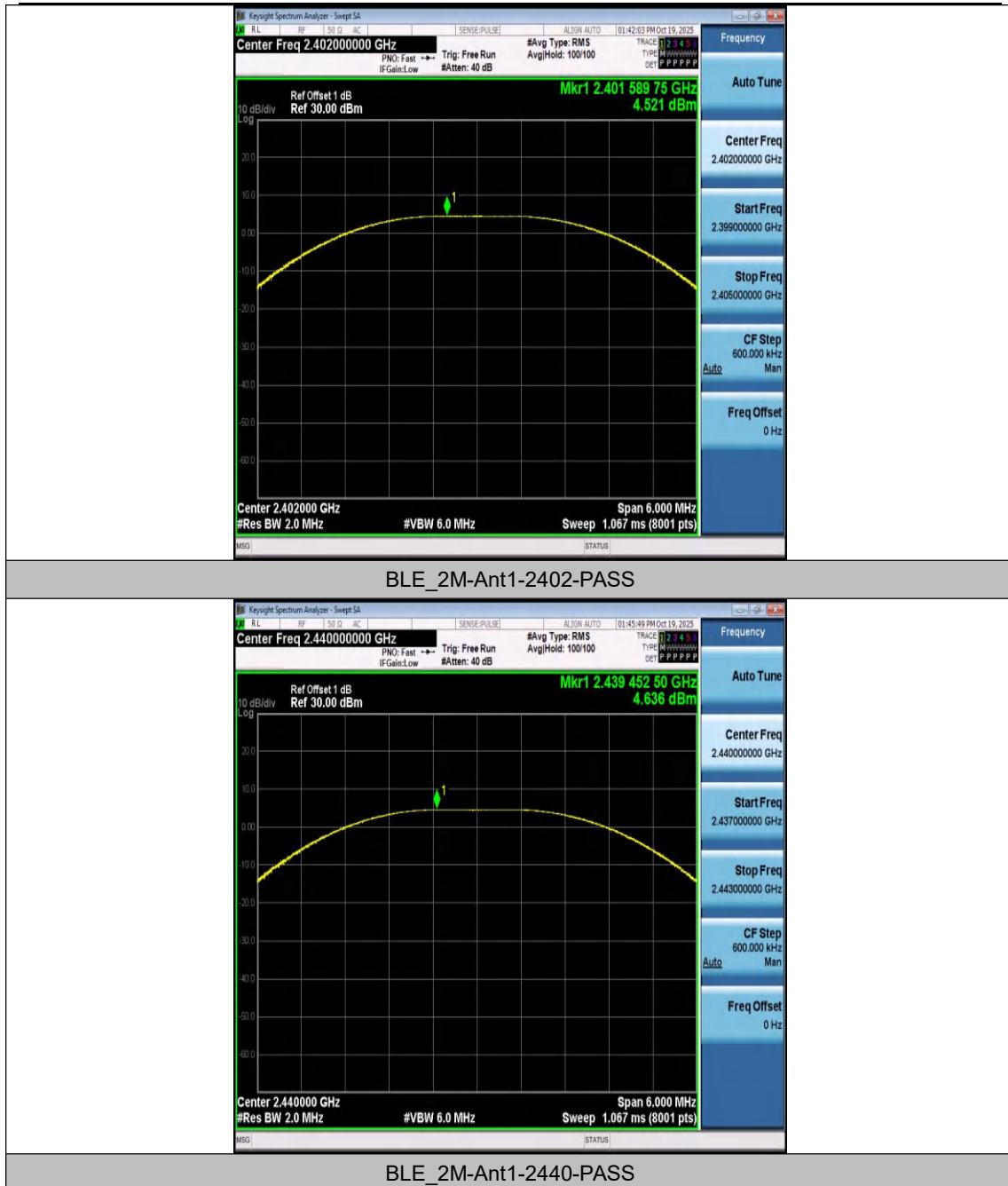




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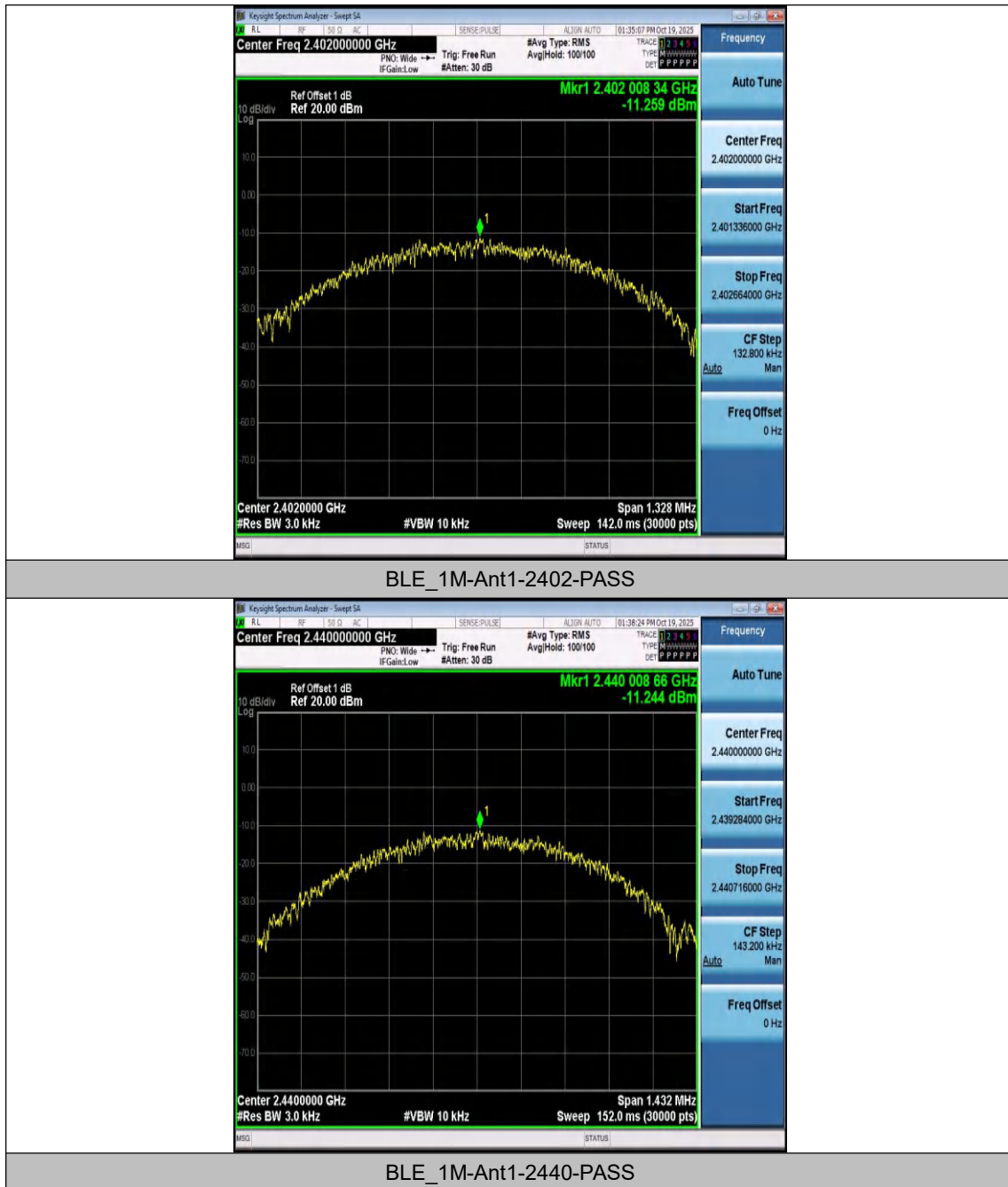
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.26	≤8.00	PASS
BLE_1M	Ant1	2440	-11.24	≤8.00	PASS
BLE_1M	Ant1	2480	-11.64	≤8.00	PASS
BLE_2M	Ant1	2402	-13.29	≤8.00	PASS
BLE_2M	Ant1	2440	-13.10	≤8.00	PASS
BLE_2M	Ant1	2480	-13.55	≤8.00	PASS

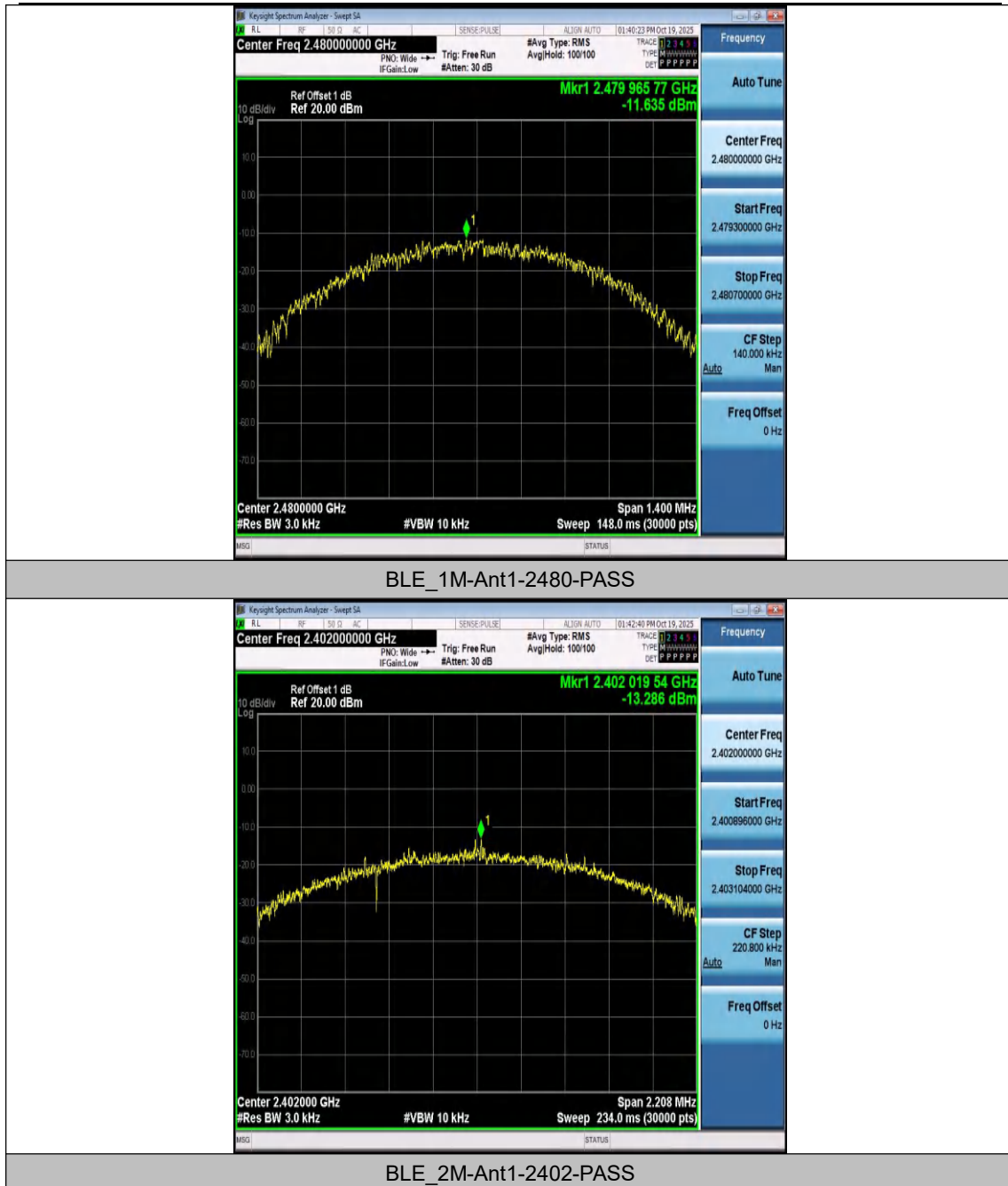
Test Graphs



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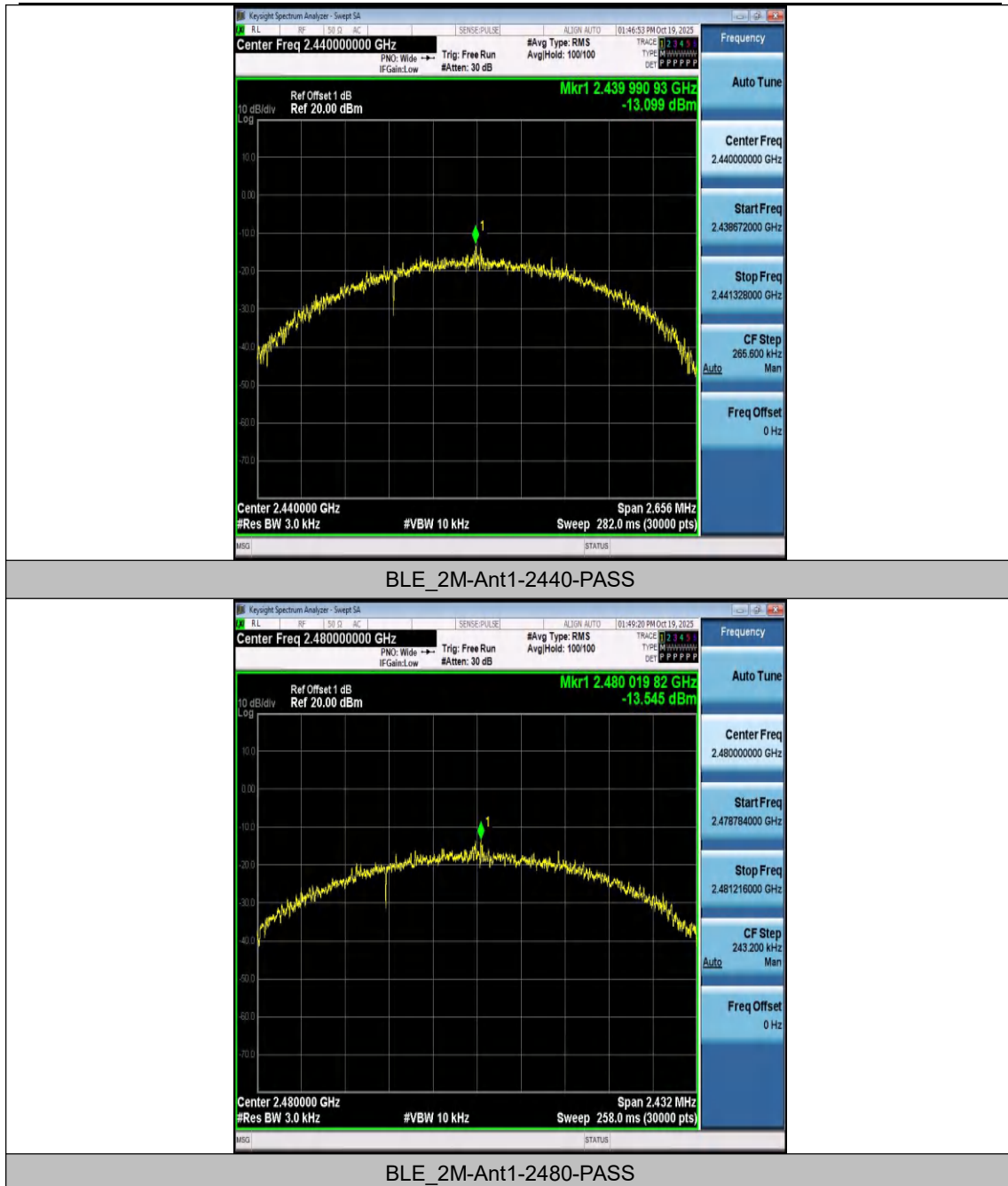
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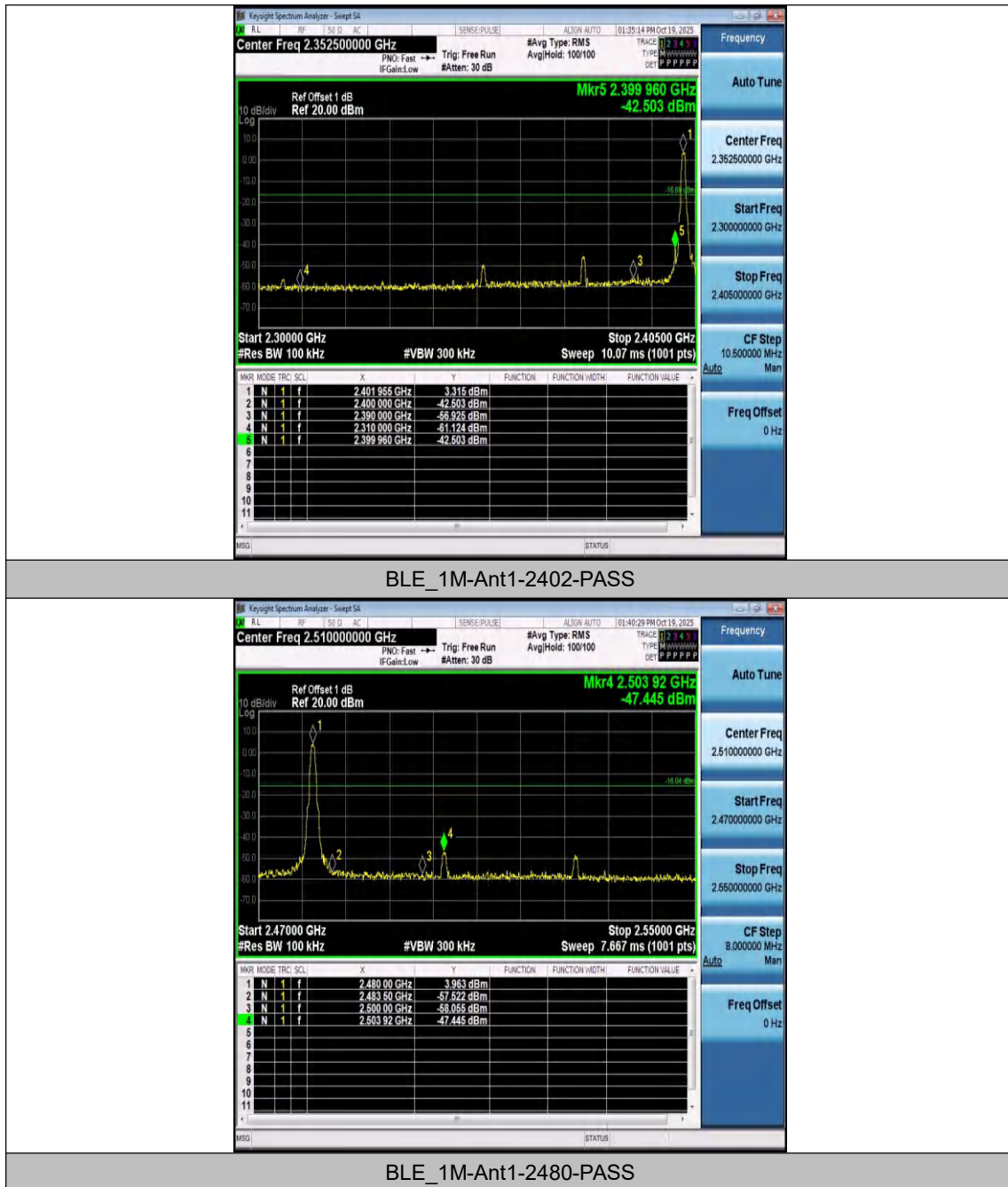
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.32	-42.5	≤-16.69	PASS
BLE_1M	Ant1	High	2480	3.96	-47.45	≤-16.04	PASS
BLE_2M	Ant1	Low	2402	3.34	-31.39	≤-16.66	PASS
BLE_2M	Ant1	High	2480	3.91	-48.4	≤-16.09	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.

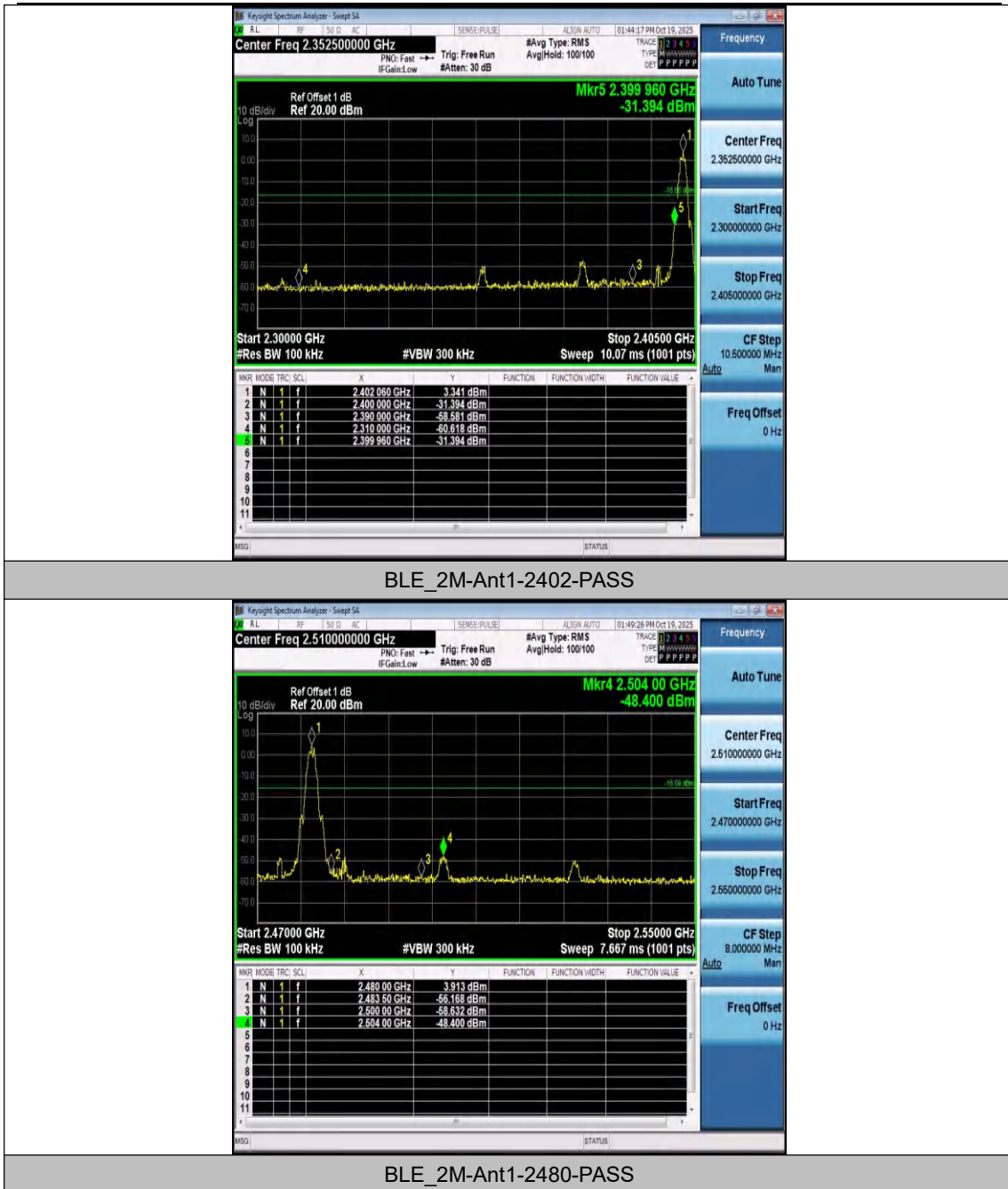
Test Graphs



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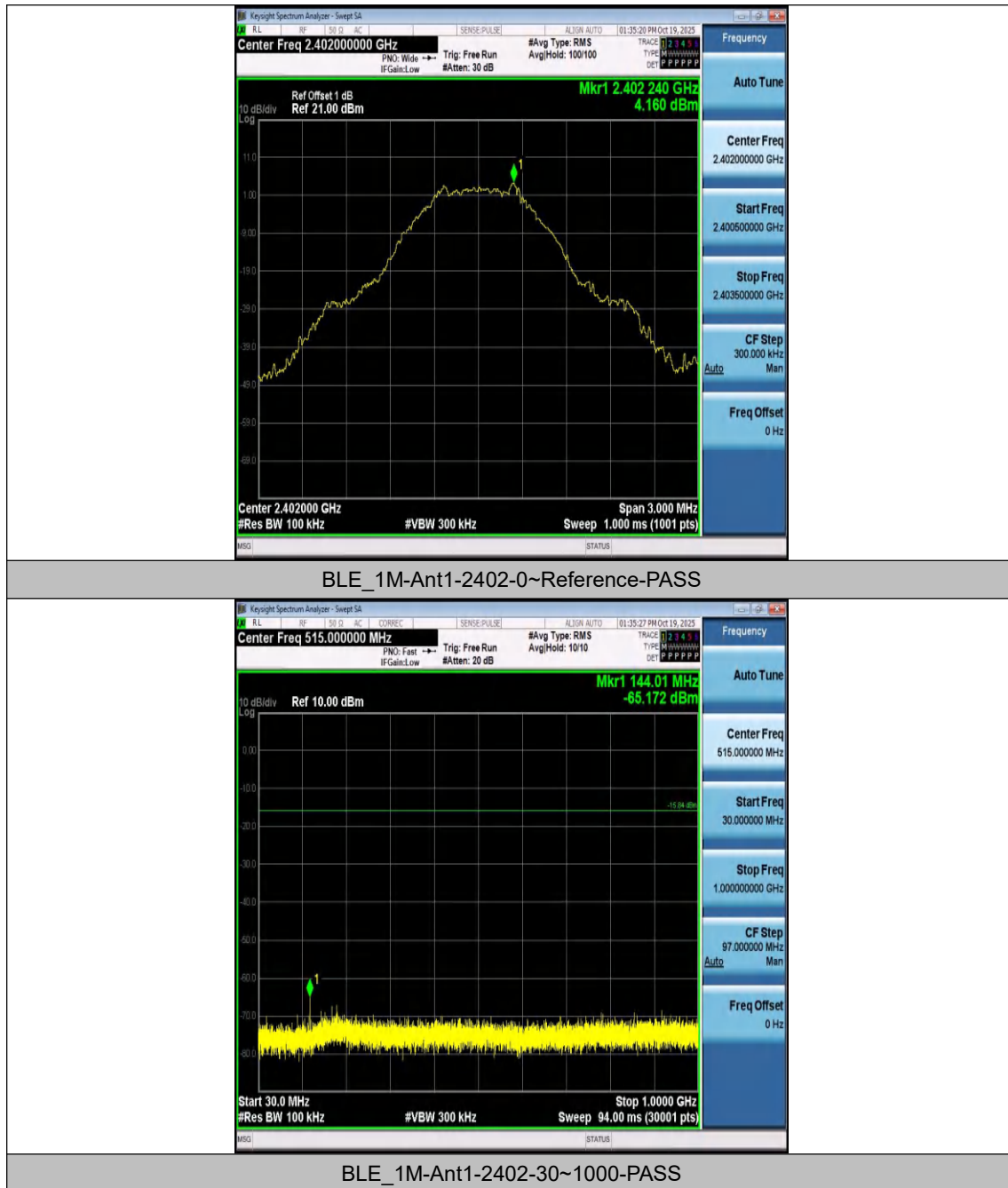
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	4.16	4.16	---	PASS
BLE_1M	Ant1	2402	30~1000	4.16	-65.17	≤-15.84	PASS
BLE_1M	Ant1	2402	1000~26500	4.16	-43.34	≤-15.84	PASS
BLE_1M	Ant1	2440	0~Reference	4.17	4.17	---	PASS
BLE_1M	Ant1	2440	30~1000	4.17	-63.31	≤-15.83	PASS
BLE_1M	Ant1	2440	1000~26500	4.17	-42.74	≤-15.83	PASS
BLE_1M	Ant1	2480	0~Reference	4.34	4.34	---	PASS
BLE_1M	Ant1	2480	30~1000	4.34	-63.62	≤-15.66	PASS
BLE_1M	Ant1	2480	1000~26500	4.34	-42.17	≤-15.66	PASS
BLE_2M	Ant1	2402	0~Reference	3.32	3.32	---	PASS
BLE_2M	Ant1	2402	30~1000	3.32	-63.8	≤-16.68	PASS
BLE_2M	Ant1	2402	1000~26500	3.32	-43.31	≤-16.68	PASS
BLE_2M	Ant1	2440	0~Reference	4.44	4.44	---	PASS
BLE_2M	Ant1	2440	30~1000	4.44	-63.37	≤-15.56	PASS
BLE_2M	Ant1	2440	1000~26500	4.44	-42.22	≤-15.56	PASS
BLE_2M	Ant1	2480	0~Reference	3.40	3.40	---	PASS
BLE_2M	Ant1	2480	30~1000	3.40	-63.1	≤-16.6	PASS
BLE_2M	Ant1	2480	1000~26500	3.40	-40.18	≤-16.6	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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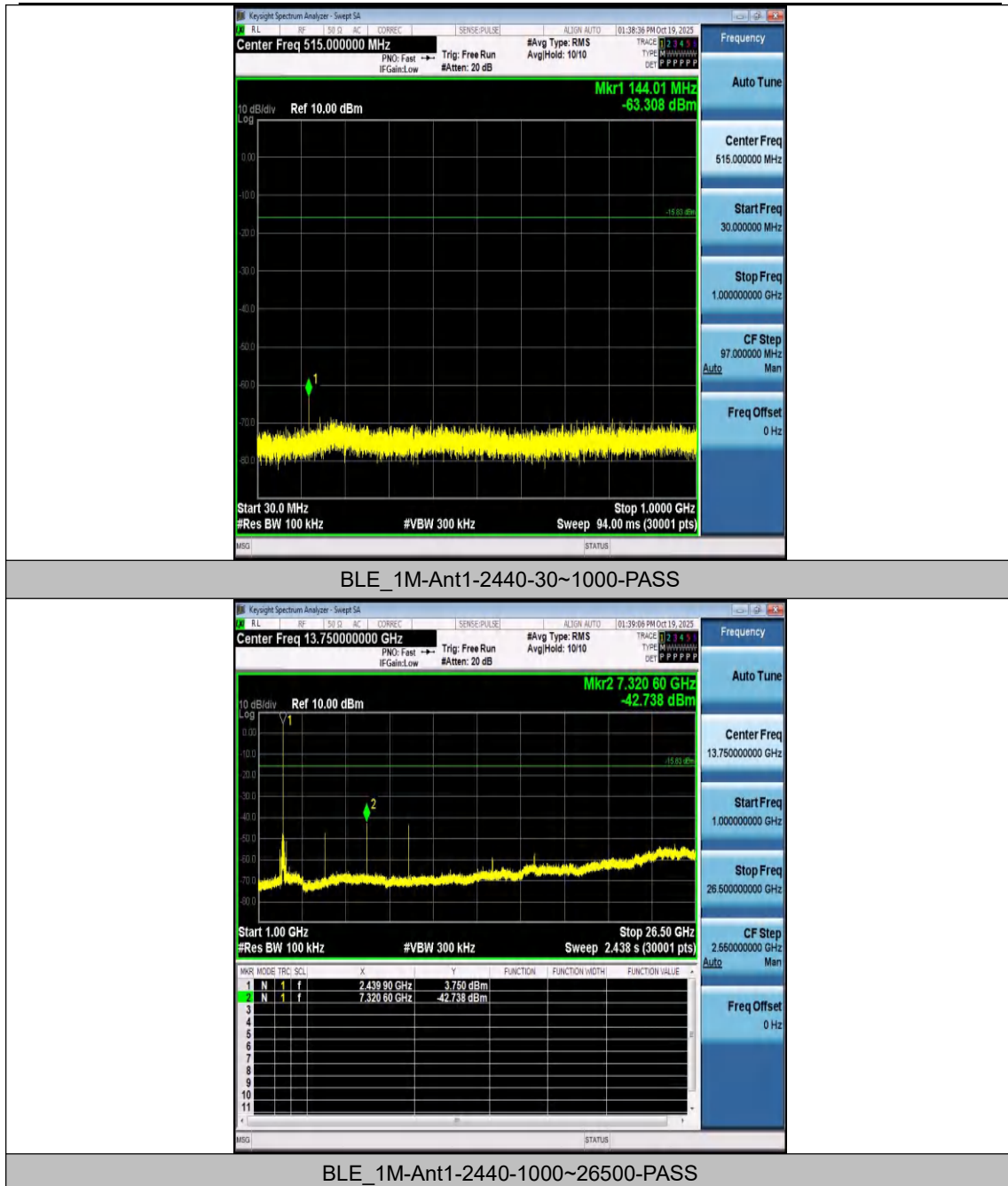
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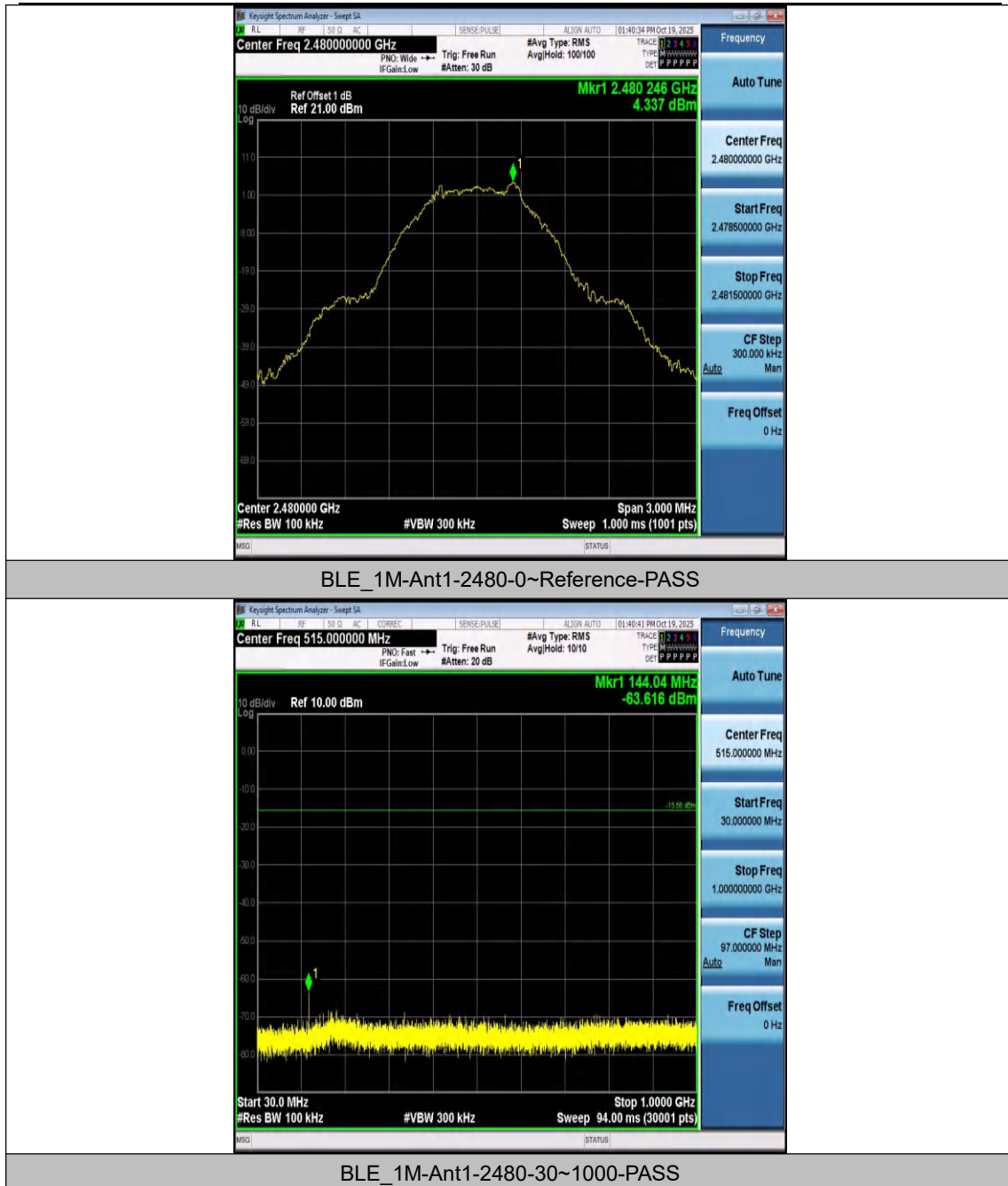
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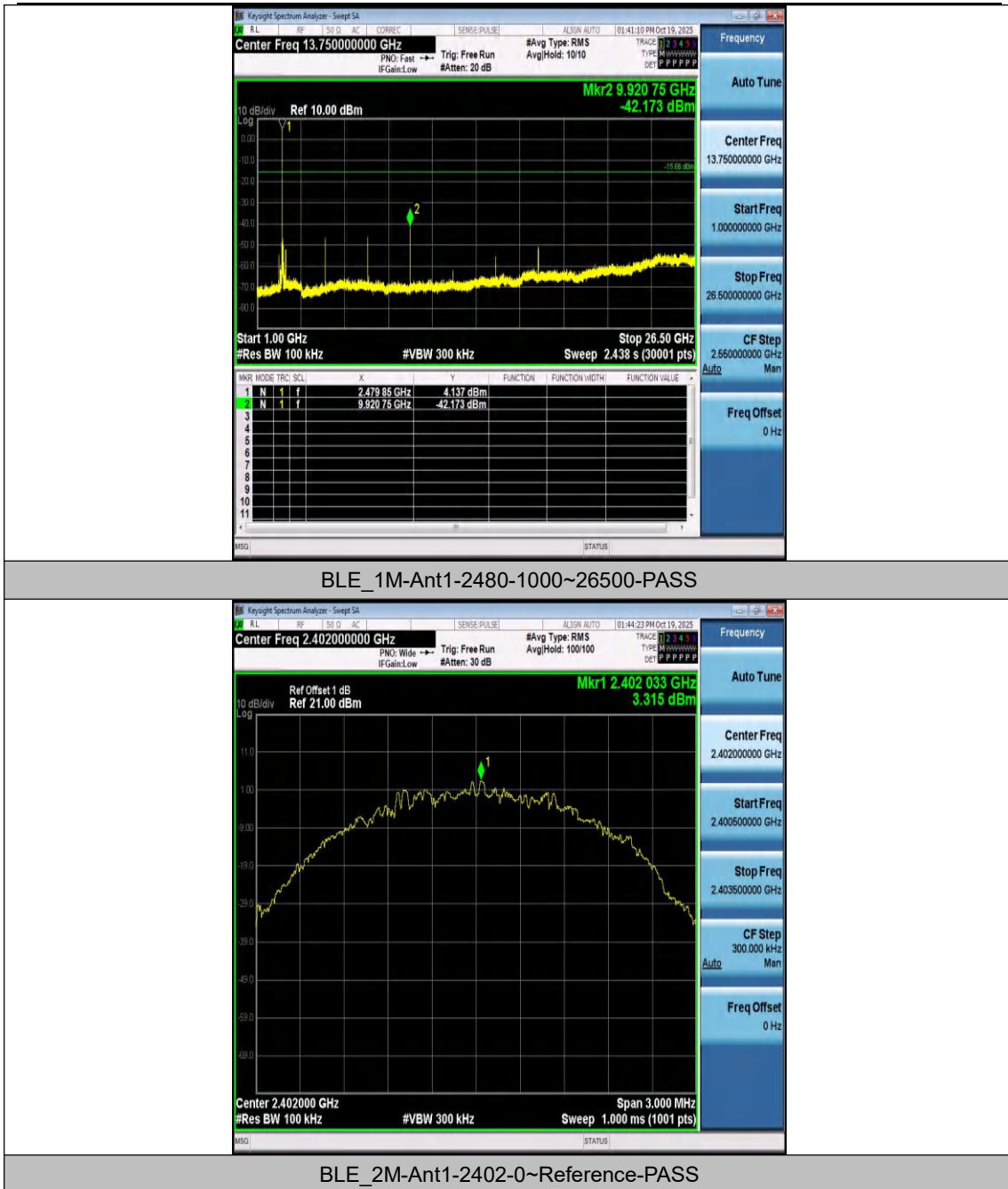
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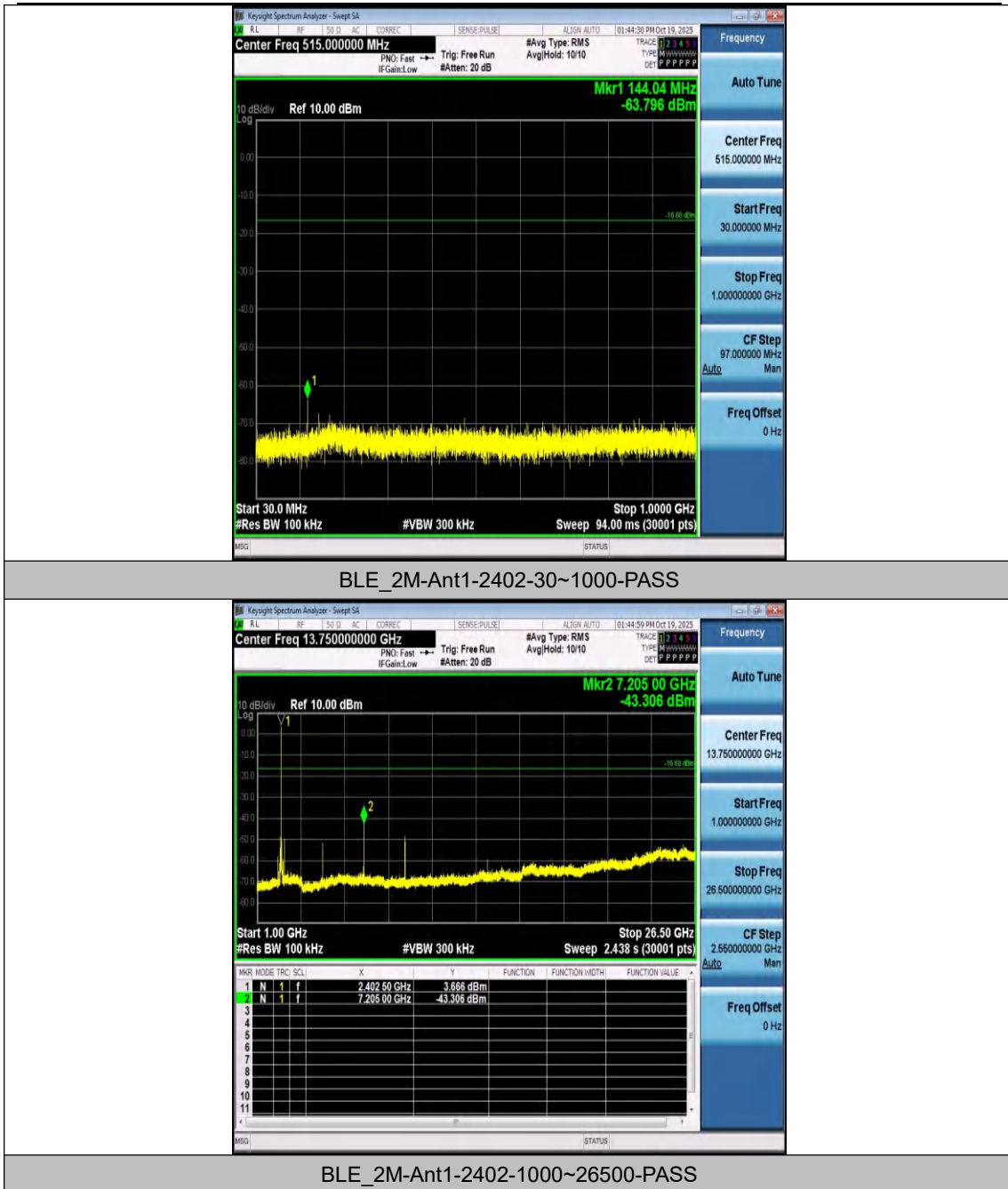
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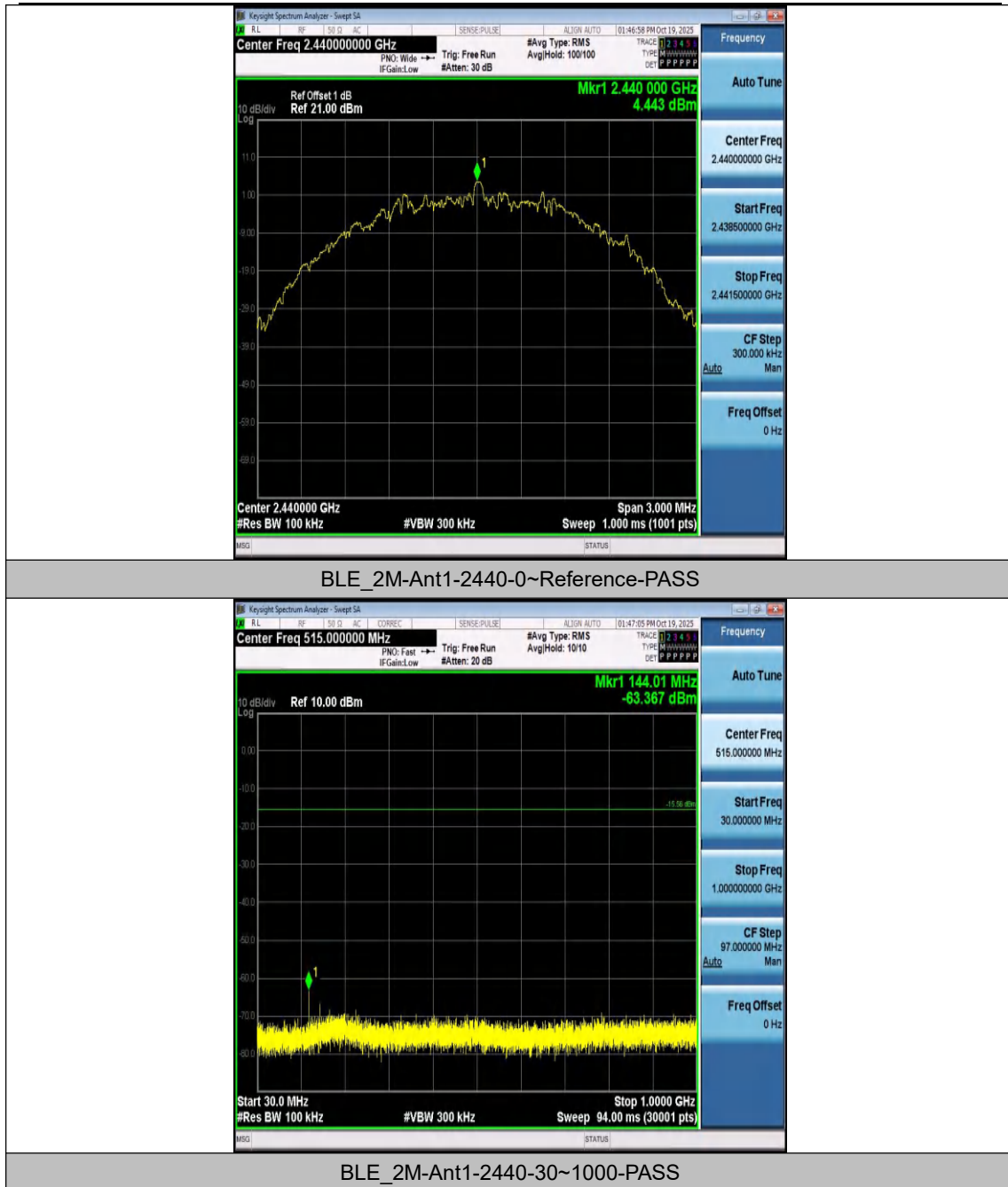
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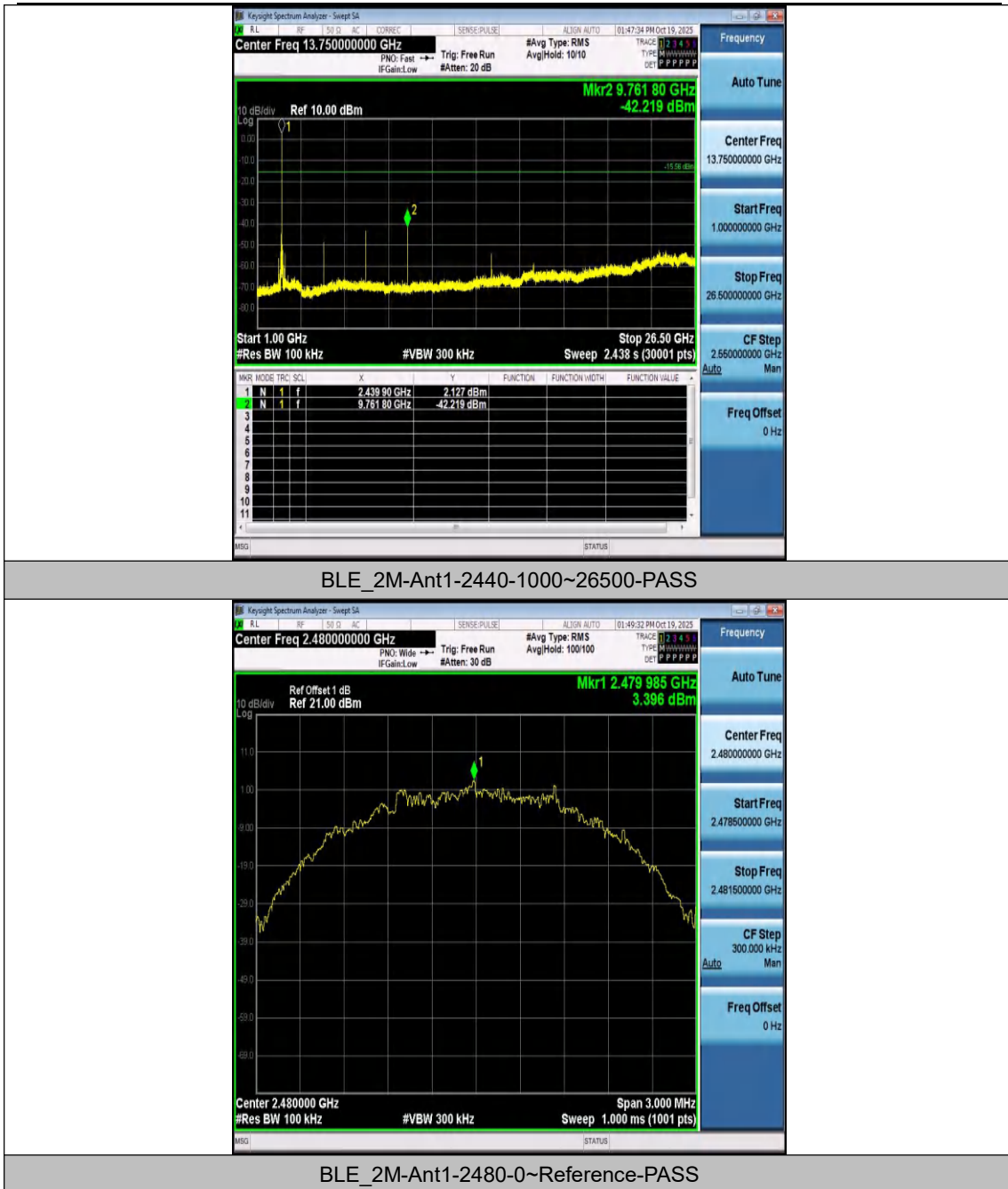
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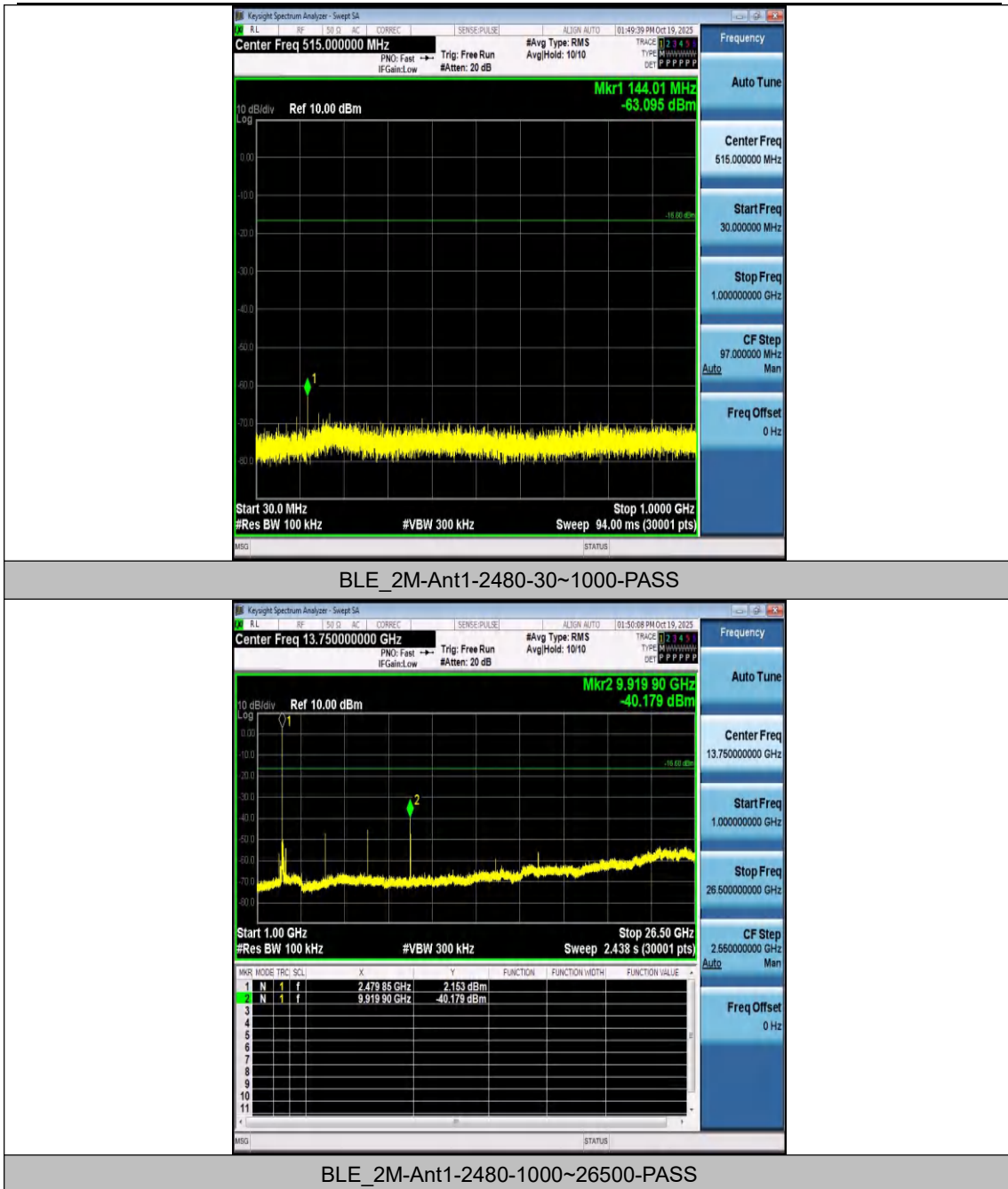
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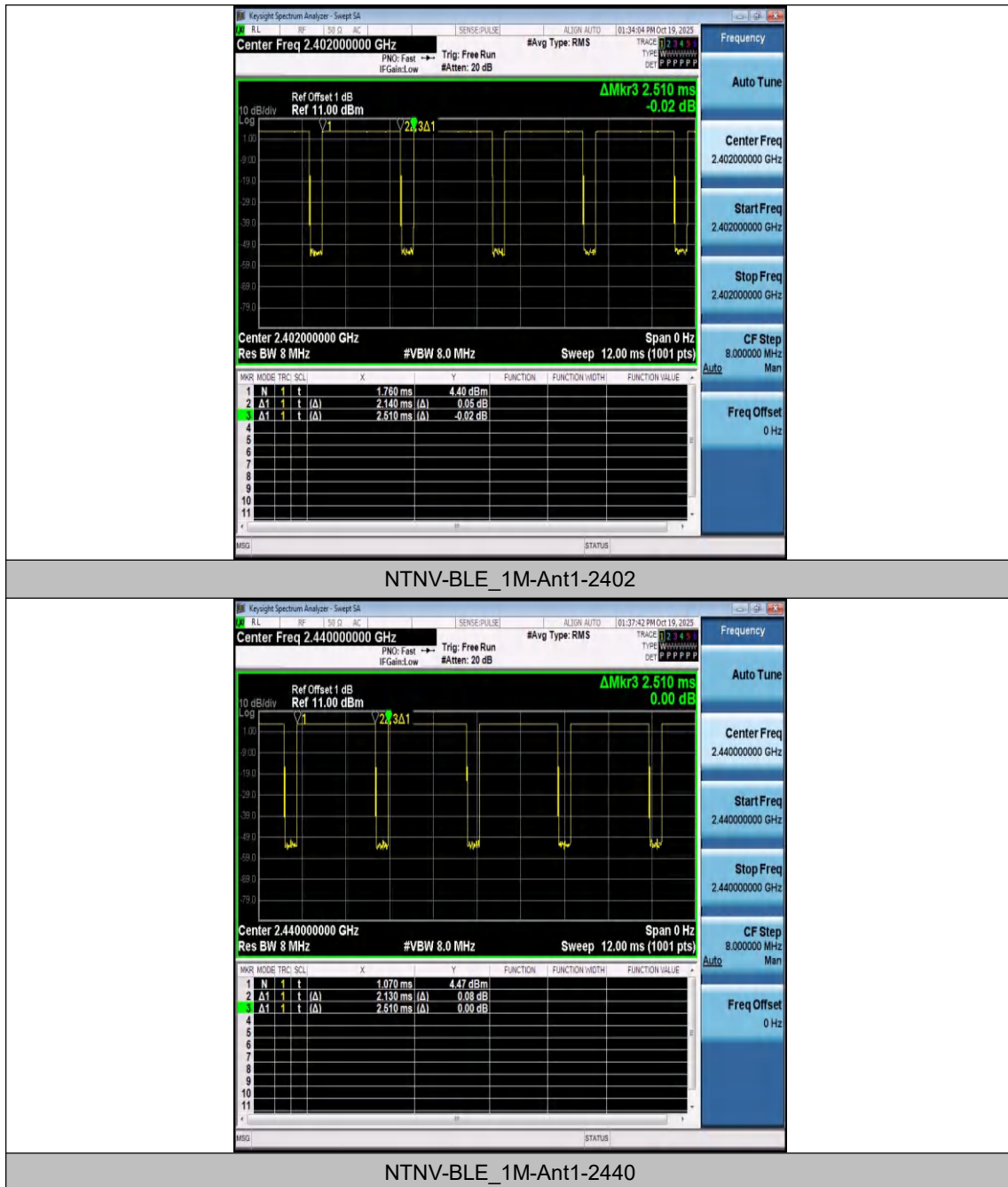
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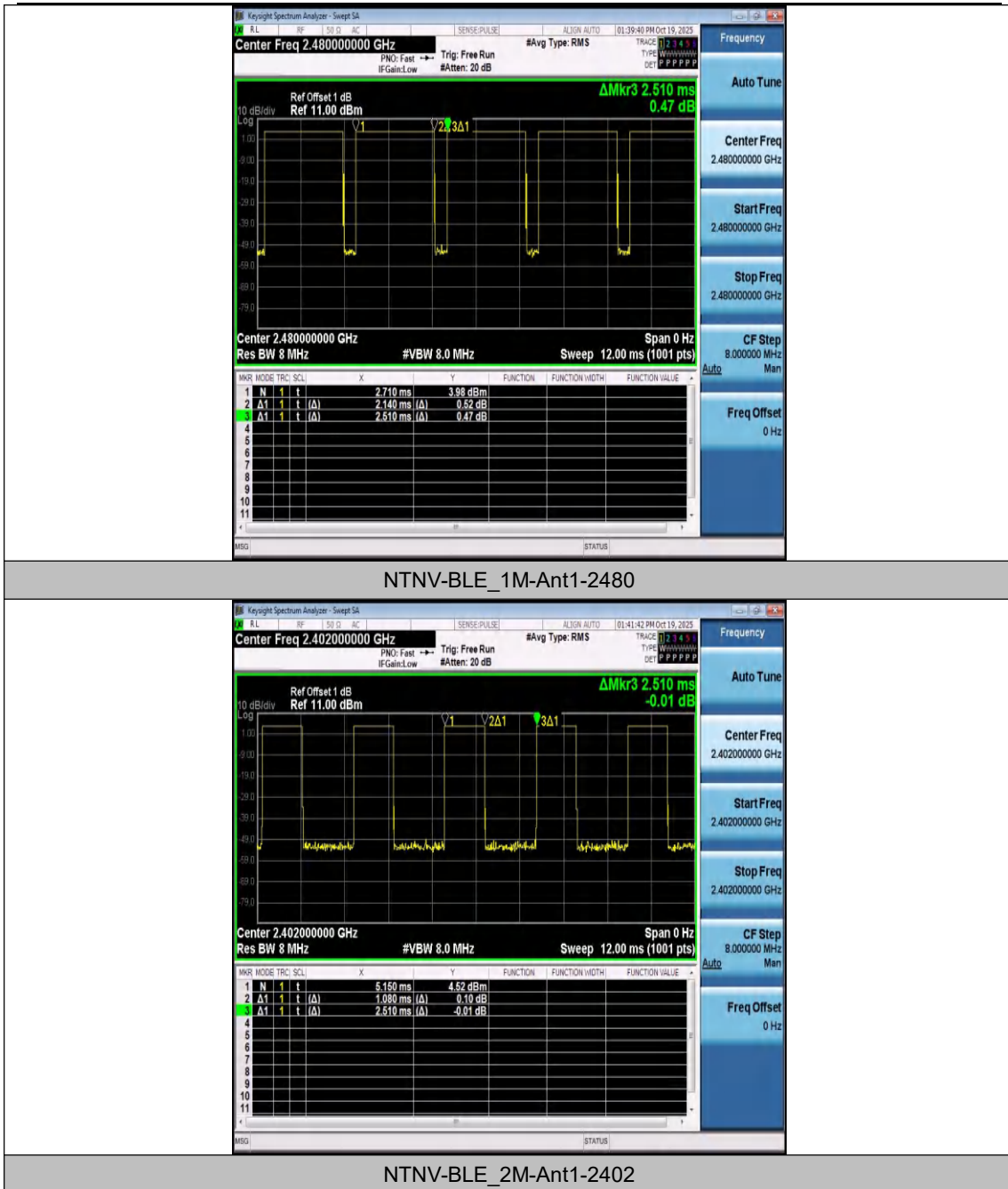
Appendix G: Duty Cycle

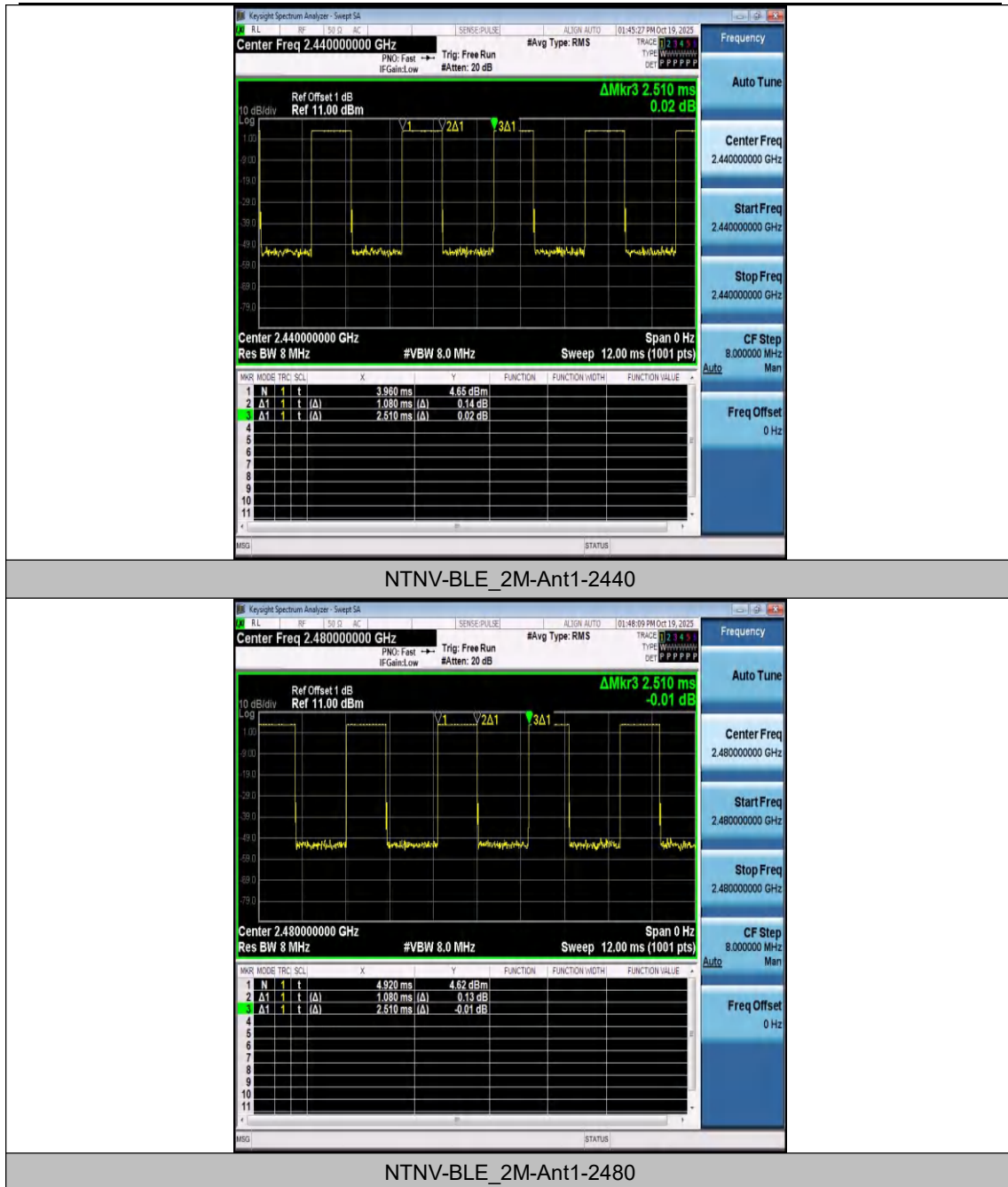
Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.14	2.51	85.26	0.69
BLE_1M	Ant1	2440	2.13	2.51	84.86	0.71
BLE_1M	Ant1	2480	2.14	2.51	85.26	0.69
BLE_2M	Ant1	2402	1.08	2.51	43.03	3.66
BLE_2M	Ant1	2440	1.08	2.51	43.03	3.66
BLE_2M	Ant1	2480	1.08	2.51	43.03	3.66

Test Graphs







---End---