

Appendix Test Data

Report No.:	1812C50689312501-01	Test Sample No.:	1-2-2
Start Test Date:	2025-12-25	Finish Test Date:	2025-12-30
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	21.8°C	Relative Humidity:	46%
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	0.648	2401.680	2402.328	0.5	PASS
BLE_1M	Ant1	2440	0.696	2439.648	2440.344	0.5	PASS
BLE_1M	Ant1	2480	0.692	2479.652	2480.344	0.5	PASS
BLE_2M	Ant1	2402	1.232	2401.376	2402.608	0.5	PASS
BLE_2M	Ant1	2440	1.136	2439.440	2440.576	0.5	PASS
BLE_2M	Ant1	2480	1.332	2479.336	2480.668	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	1.0465	2401.4805	2402.5270	---	---
BLE_1M	Ant1	2440	1.0420	2439.4826	2440.5246	---	---
BLE_1M	Ant1	2480	1.0398	2479.4797	2480.5195	---	---
BLE_2M	Ant1	2402	2.0687	2400.9830	2403.0517	---	---
BLE_2M	Ant1	2440	2.0452	2438.9926	2441.0378	---	---
BLE_2M	Ant1	2480	2.0740	2478.9824	2481.0564	---	---

Test Graphs



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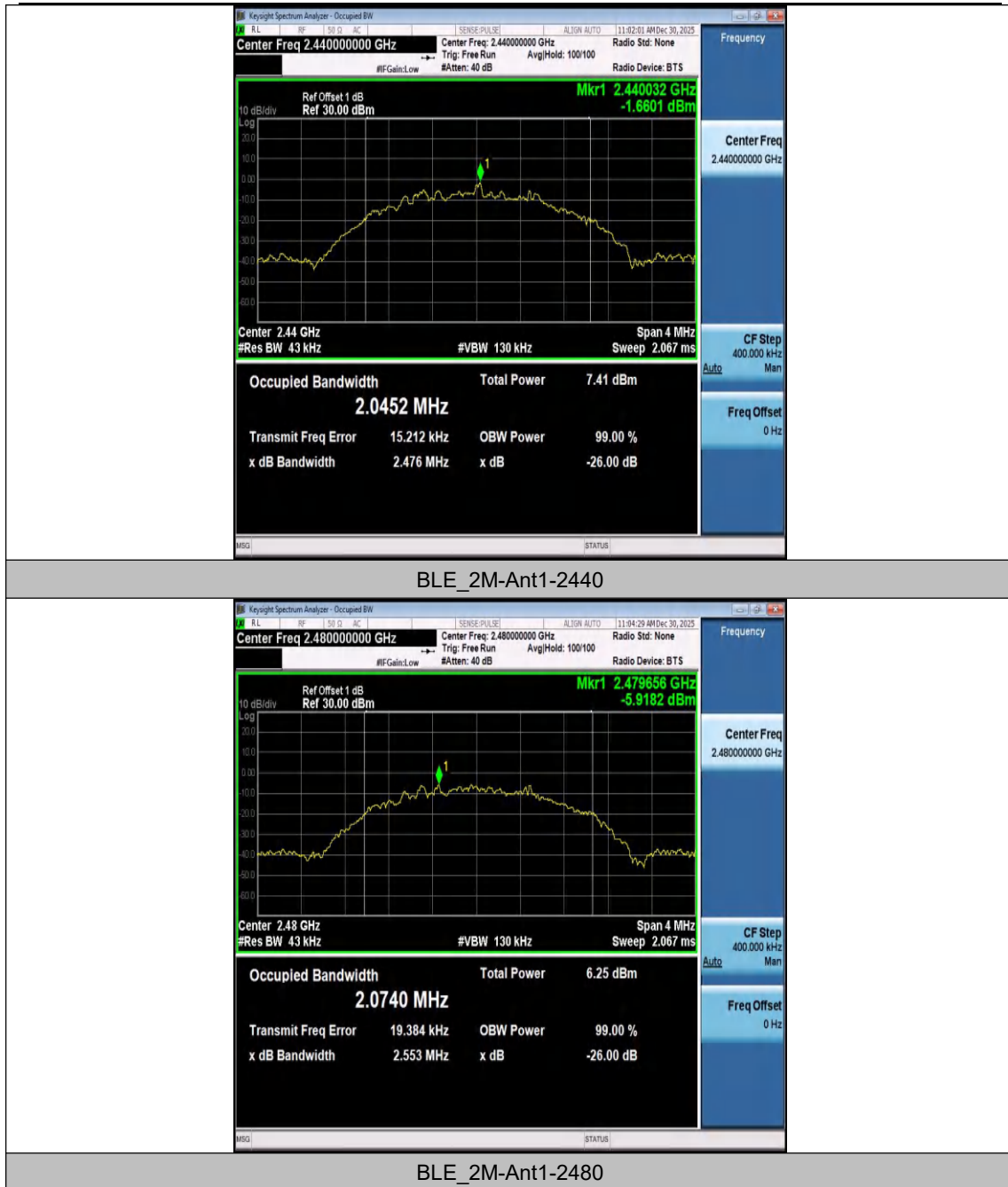
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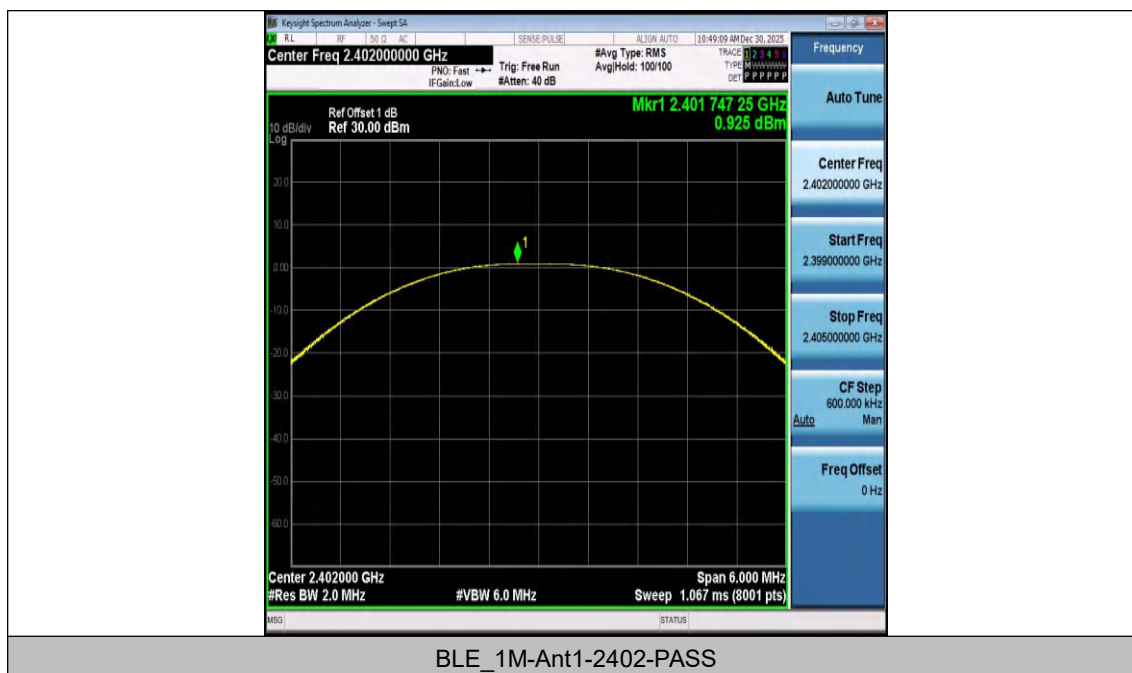
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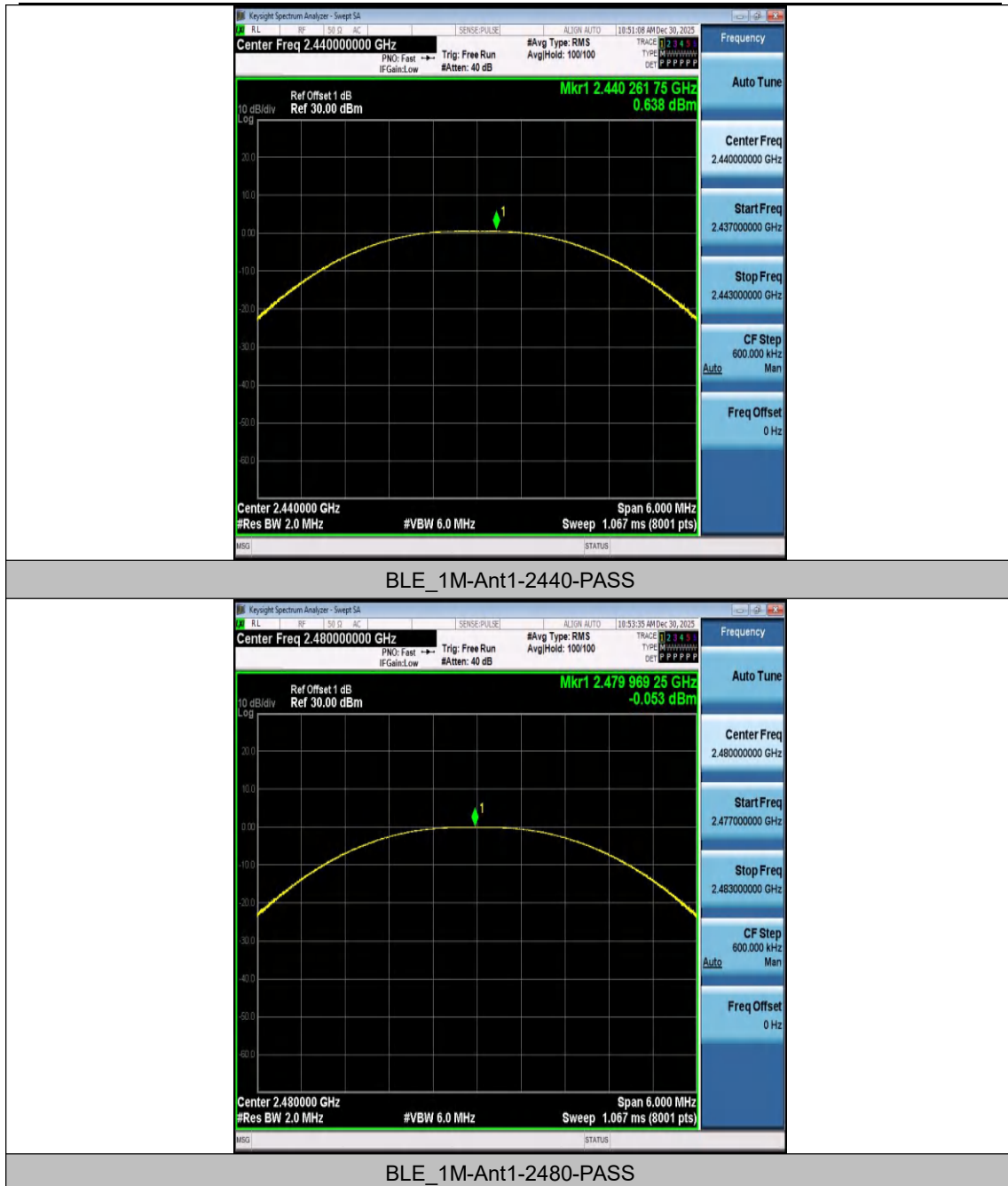
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.93	≤30	PASS
BLE_1M	Ant1	2440	0.64	≤30	PASS
BLE_1M	Ant1	2480	-0.05	≤30	PASS
BLE_2M	Ant1	2402	1.01	≤30	PASS
BLE_2M	Ant1	2440	0.82	≤30	PASS
BLE_2M	Ant1	2480	0.25	≤30	PASS

Test Graphs Peak

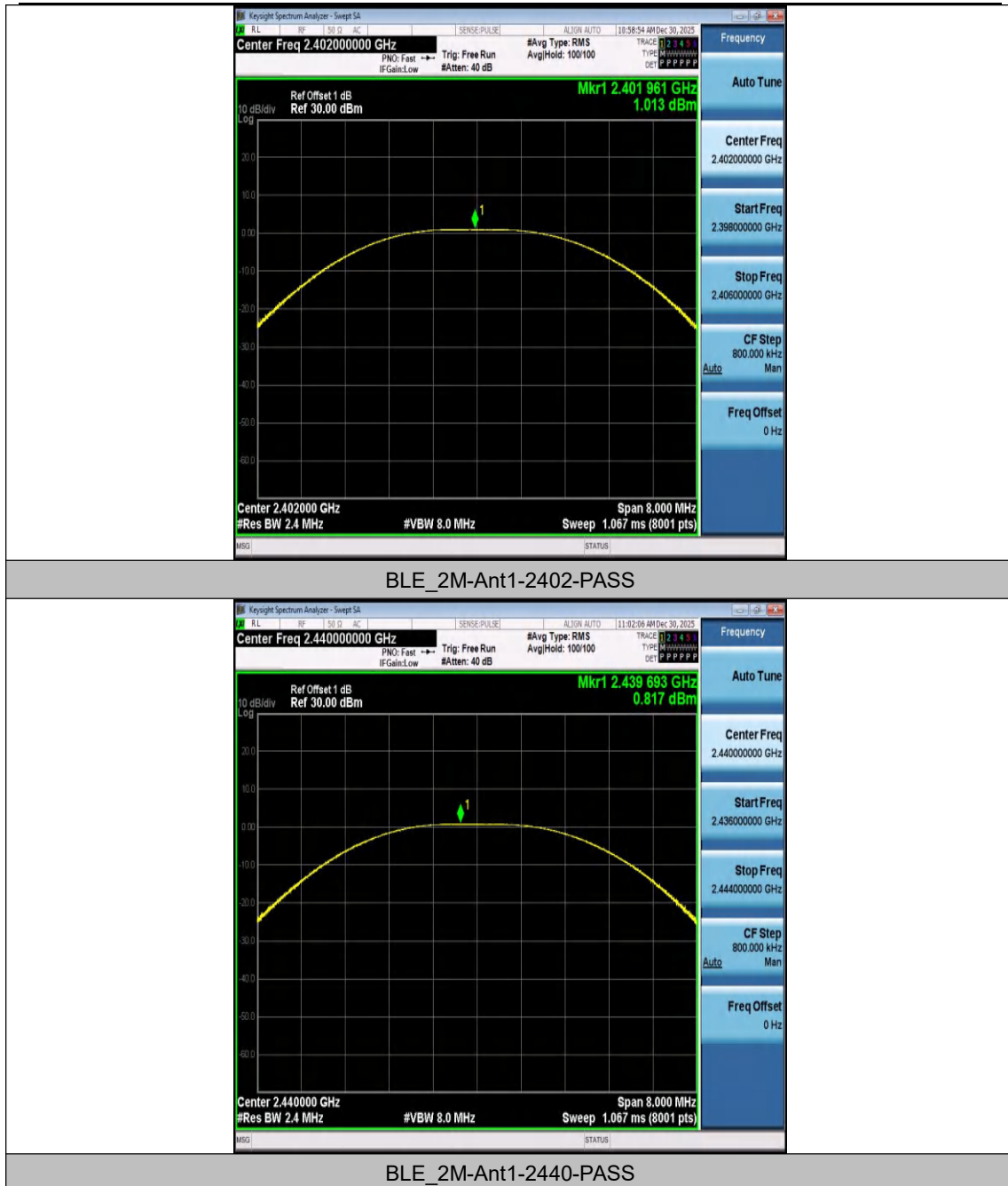




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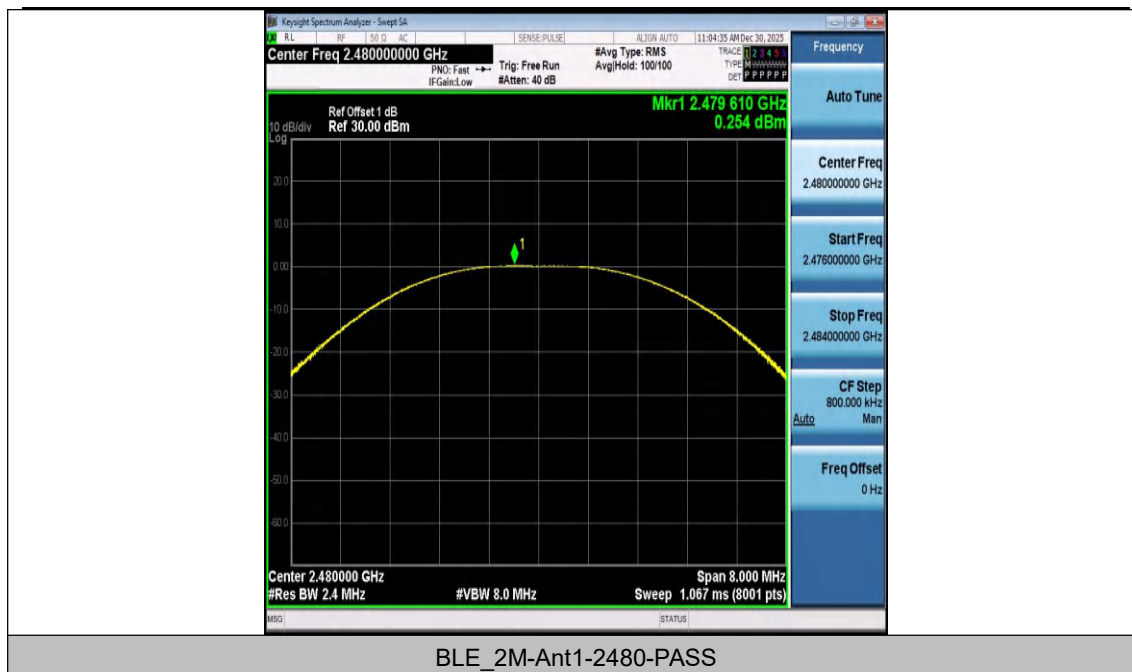
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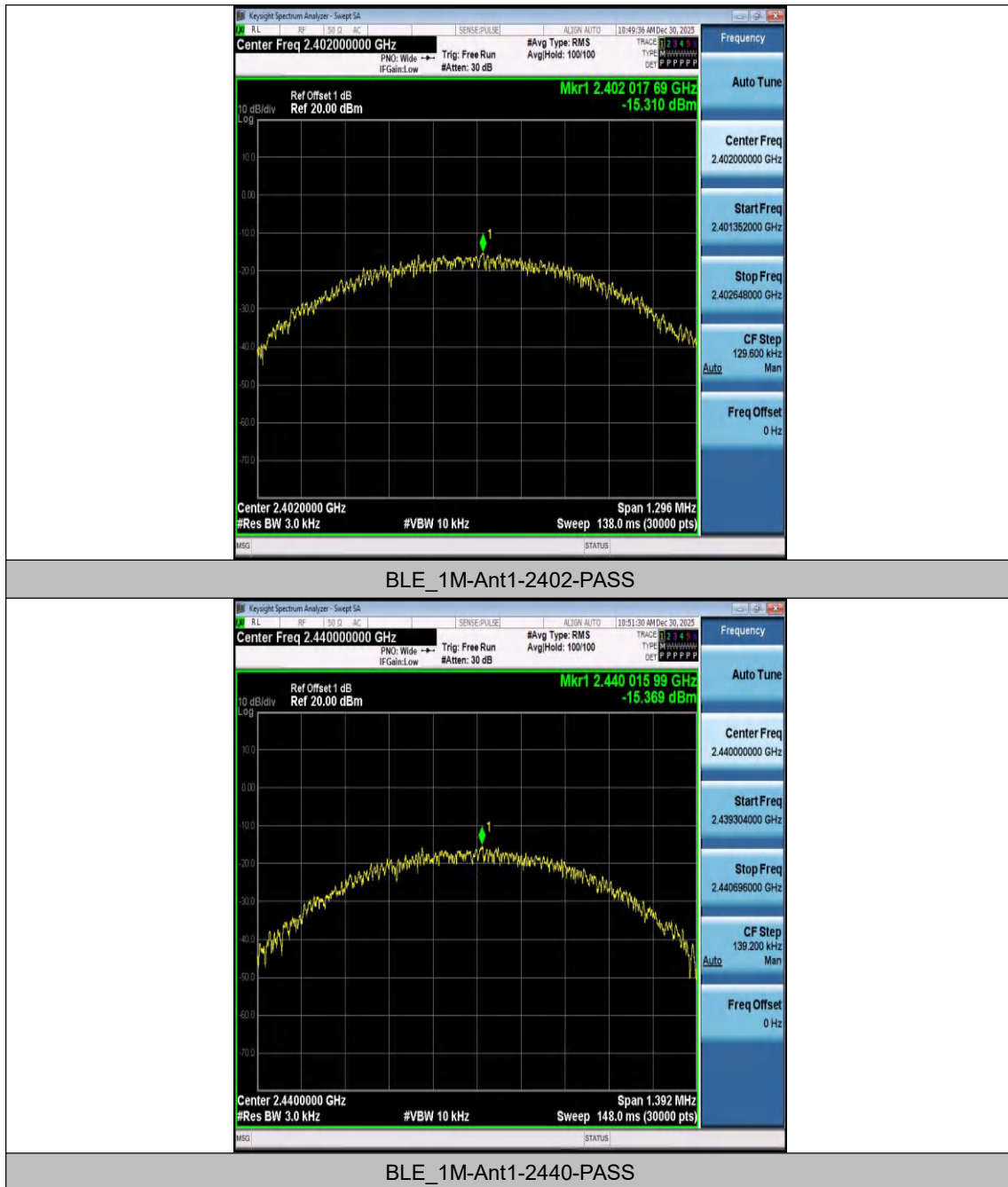
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.31	≤8.00	PASS
BLE_1M	Ant1	2440	-15.37	≤8.00	PASS
BLE_1M	Ant1	2480	-16.03	≤8.00	PASS
BLE_2M	Ant1	2402	-17.01	≤8.00	PASS
BLE_2M	Ant1	2440	-17.34	≤8.00	PASS
BLE_2M	Ant1	2480	-17.96	≤8.00	PASS

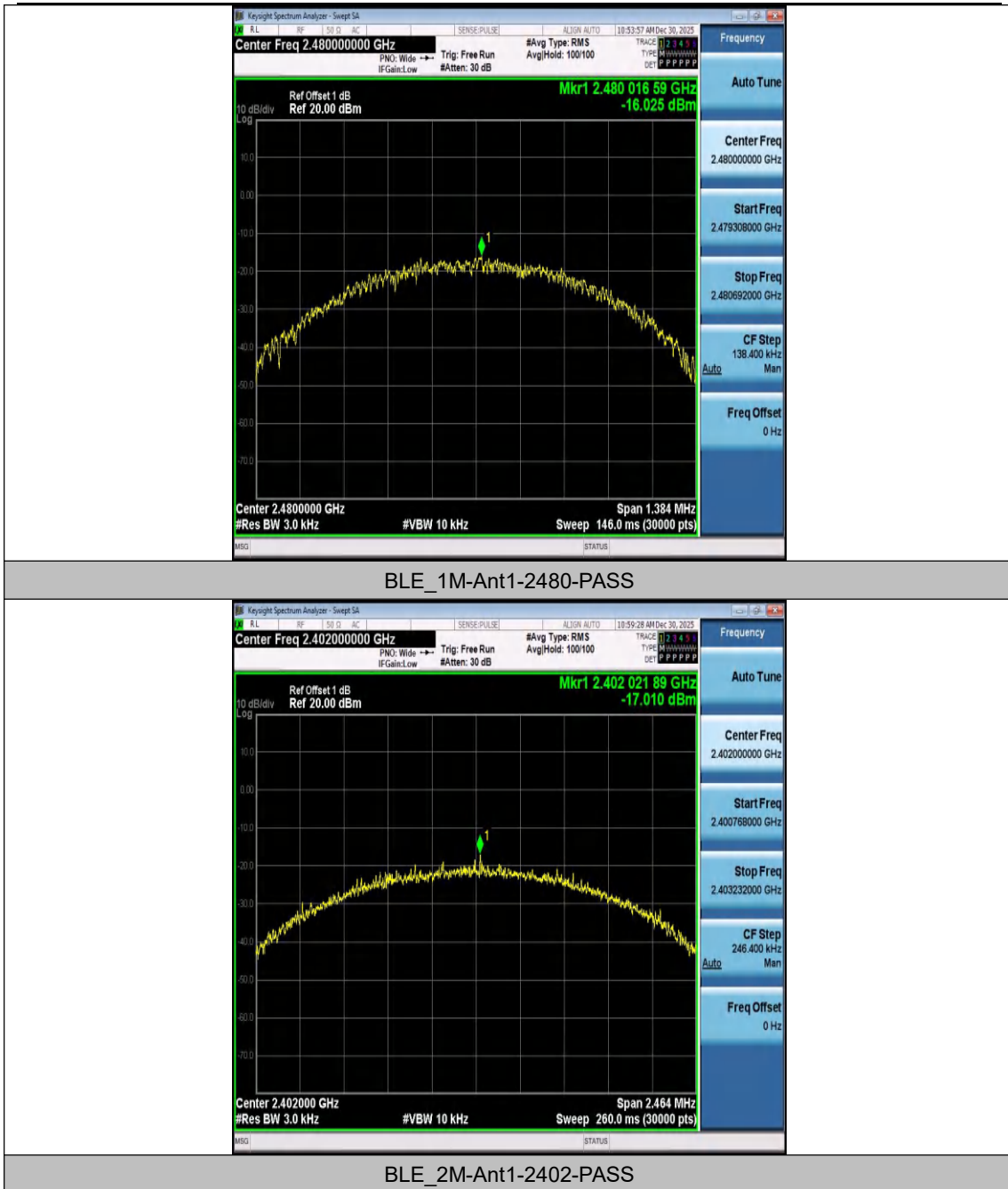
Test Graphs



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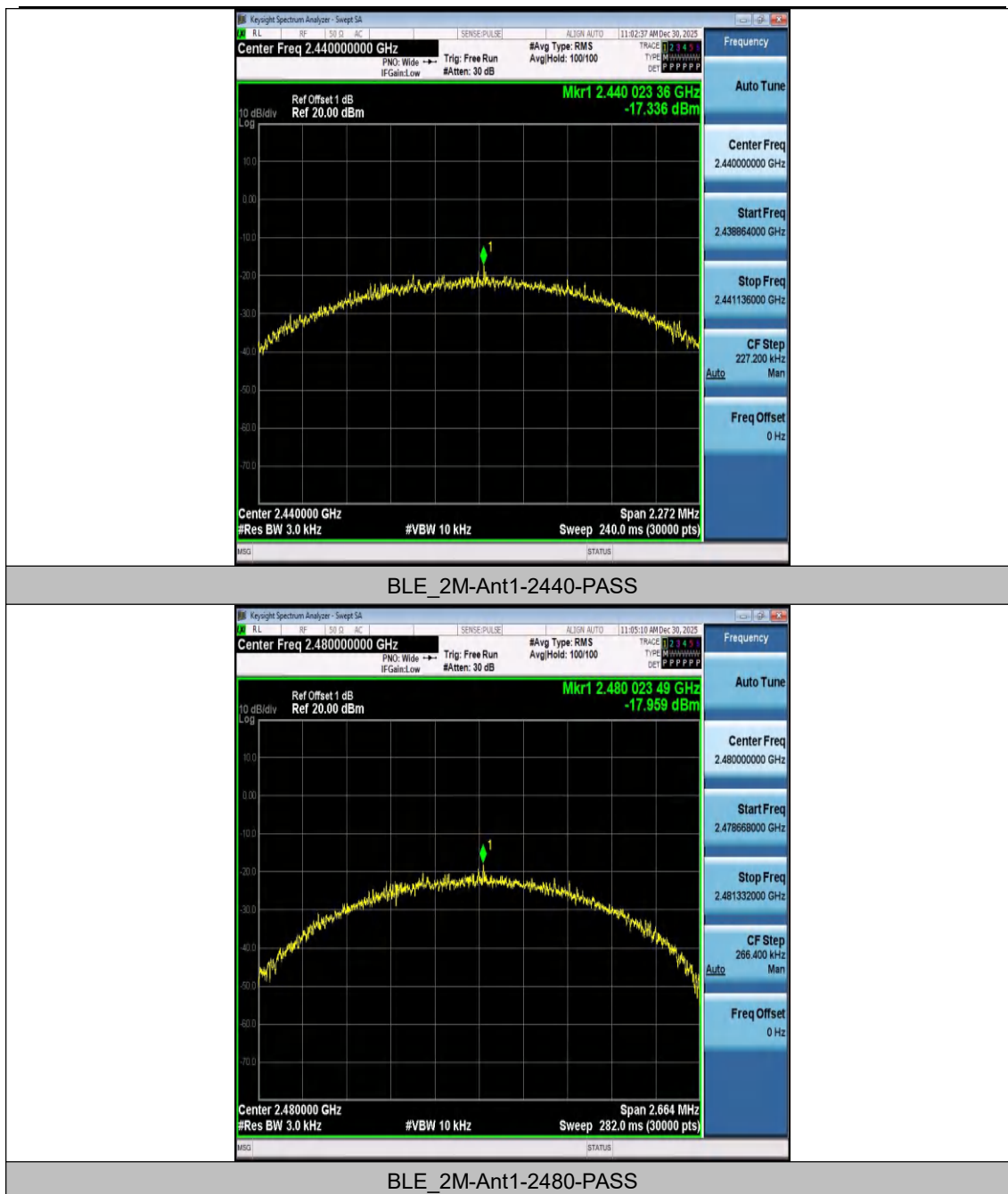
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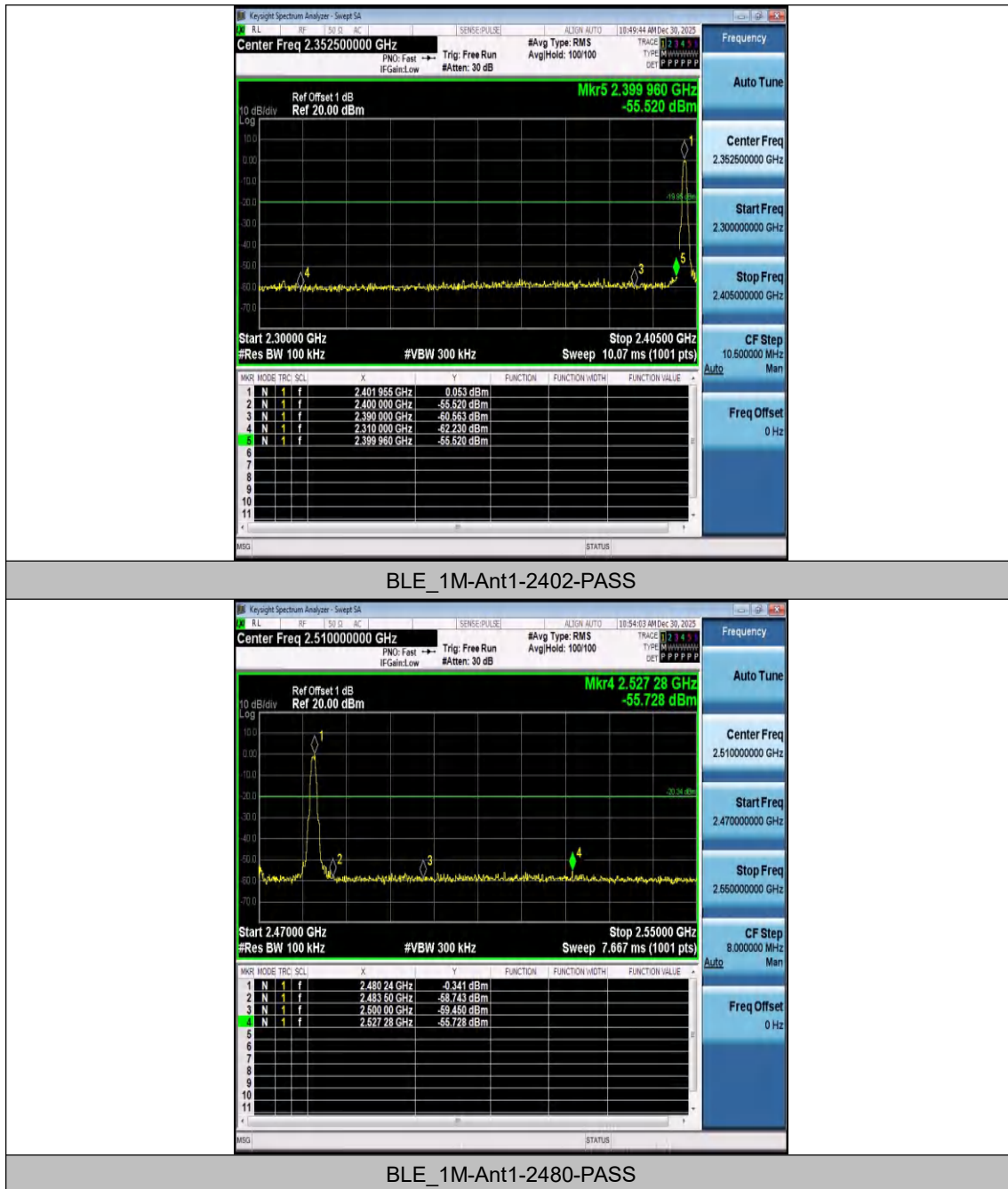
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.05	-55.52	≤ -19.95	PASS
BLE_1M	Ant1	High	2480	-0.34	-55.73	≤ -20.34	PASS
BLE_2M	Ant1	Low	2402	0.00	-33.41	≤ -20	PASS
BLE_2M	Ant1	High	2480	-0.85	-53.45	≤ -20.85	PASS

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

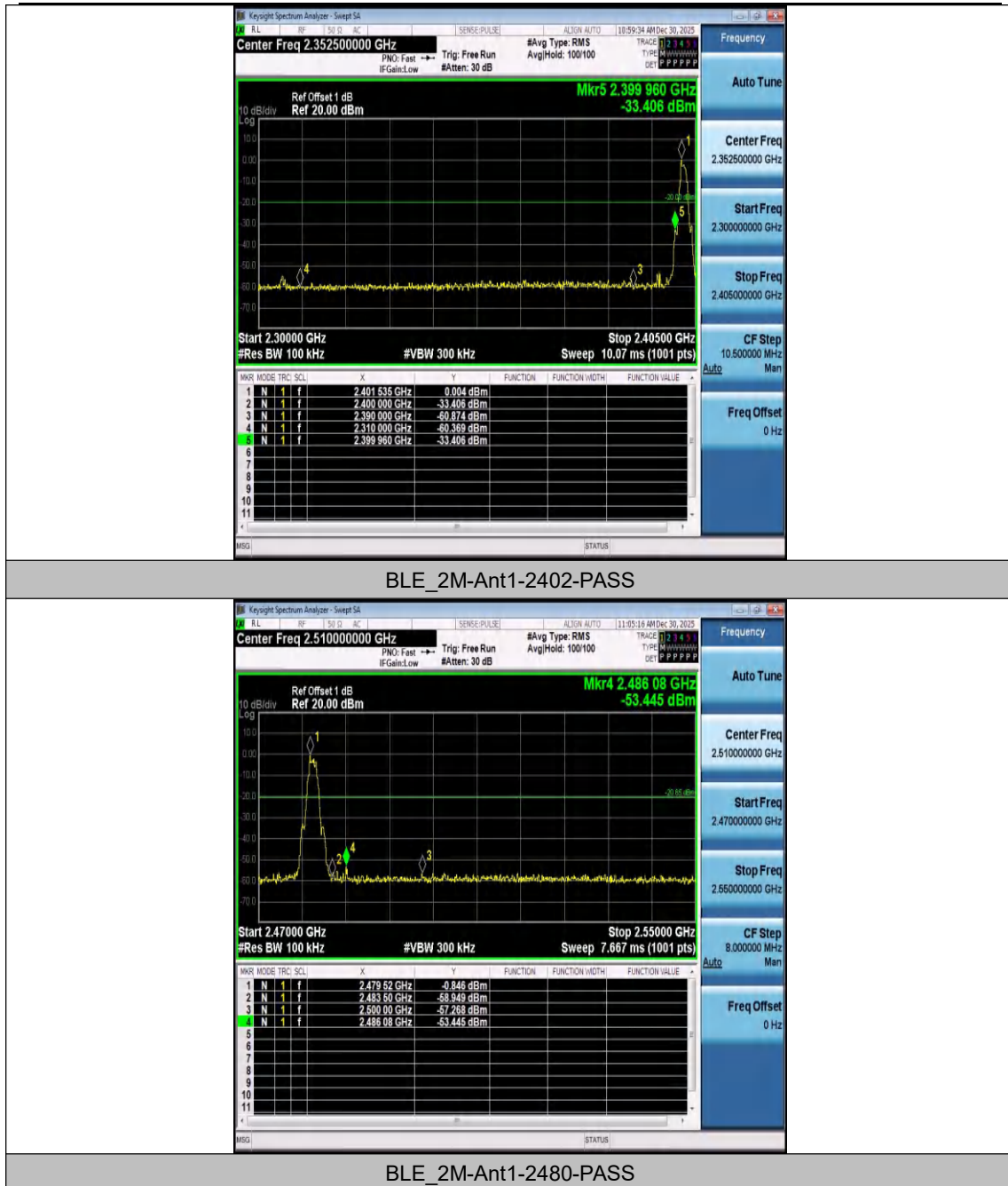
Test Graphs



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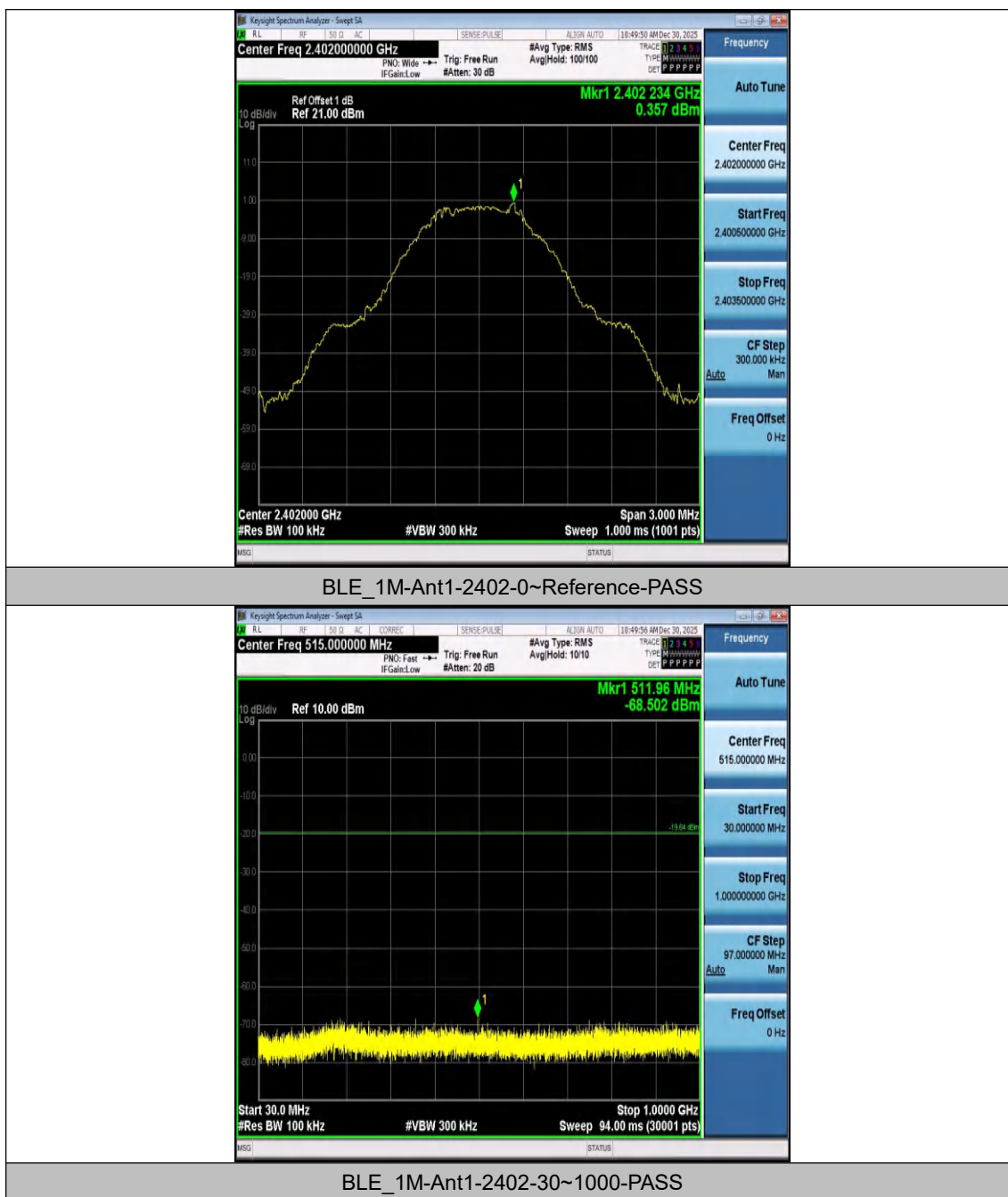
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.36	0.36	---	PASS
BLE_1M	Ant1	2402	30~1000	0.36	-68.5	≤-19.64	PASS
BLE_1M	Ant1	2402	1000~26500	0.36	-36.22	≤-19.64	PASS
BLE_1M	Ant1	2440	0~Reference	-0.56	-0.56	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.56	-68.12	≤-20.56	PASS
BLE_1M	Ant1	2440	1000~26500	-0.56	-35.21	≤-20.56	PASS
BLE_1M	Ant1	2480	0~Reference	-1.18	-1.18	---	PASS
BLE_1M	Ant1	2480	30~1000	-1.18	-68.03	≤-21.18	PASS
BLE_1M	Ant1	2480	1000~26500	-1.18	-36.21	≤-21.18	PASS
BLE_2M	Ant1	2402	0~Reference	-0.47	-0.47	---	PASS
BLE_2M	Ant1	2402	30~1000	-0.47	-67.03	≤-20.47	PASS
BLE_2M	Ant1	2402	1000~26500	-0.47	-35.87	≤-20.47	PASS
BLE_2M	Ant1	2440	0~Reference	-0.51	-0.51	---	PASS
BLE_2M	Ant1	2440	30~1000	-0.51	-68.13	≤-20.51	PASS
BLE_2M	Ant1	2440	1000~26500	-0.51	-36.46	≤-20.51	PASS
BLE_2M	Ant1	2480	0~Reference	-0.73	-0.73	---	PASS
BLE_2M	Ant1	2480	30~1000	-0.73	-68.26	≤-20.73	PASS
BLE_2M	Ant1	2480	1000~26500	-0.73	-35.97	≤-20.73	PASS

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

Test Graphs



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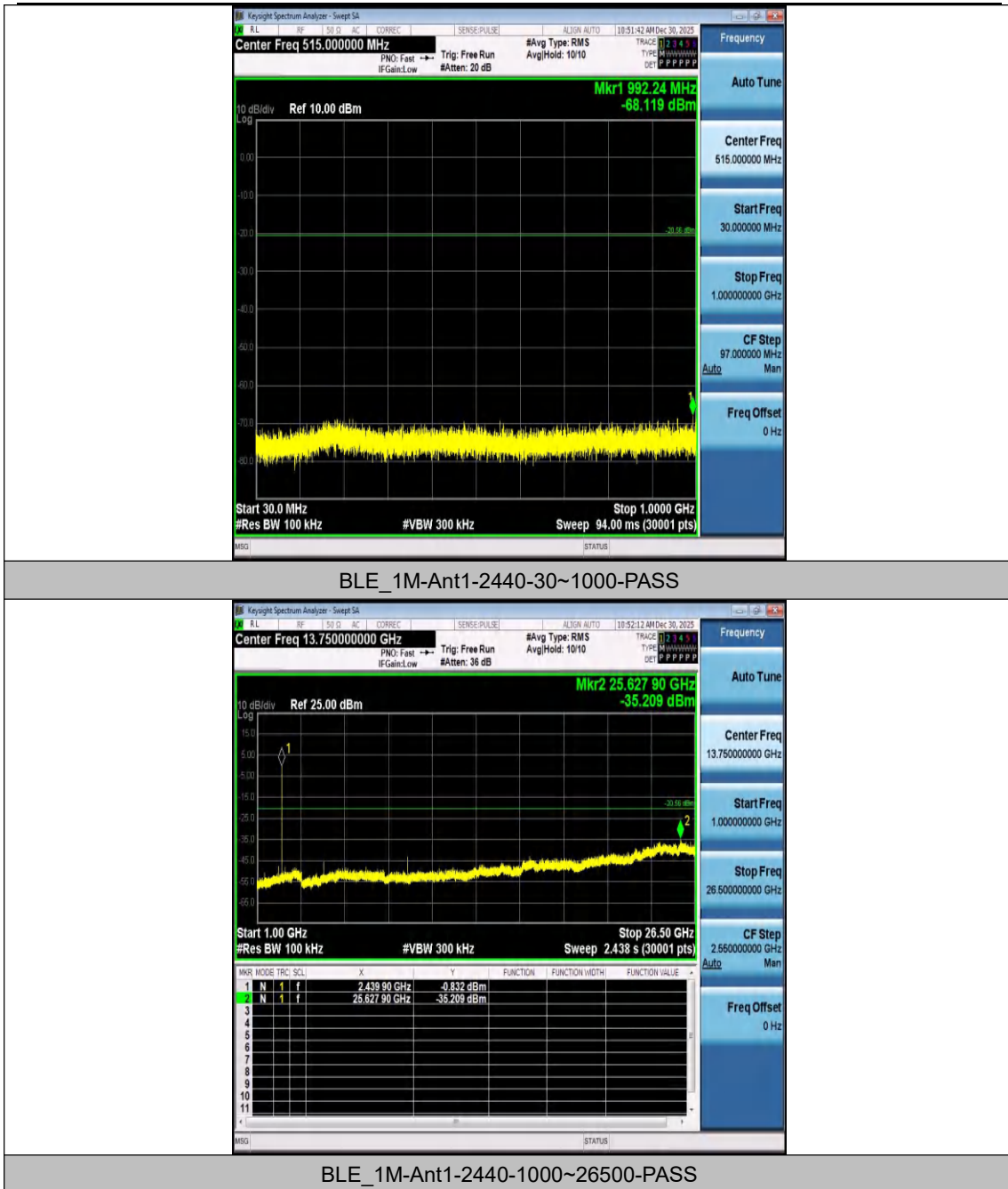
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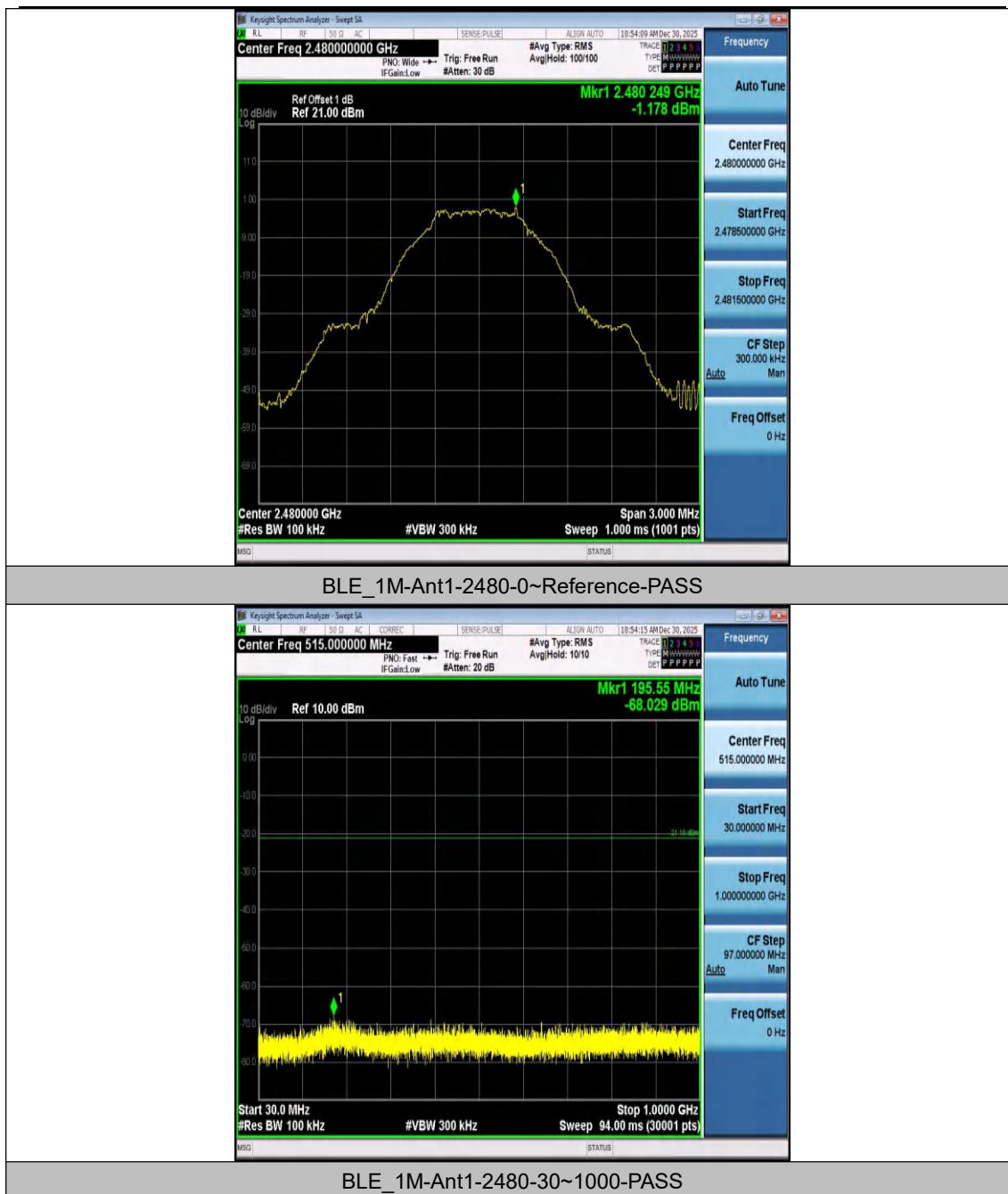
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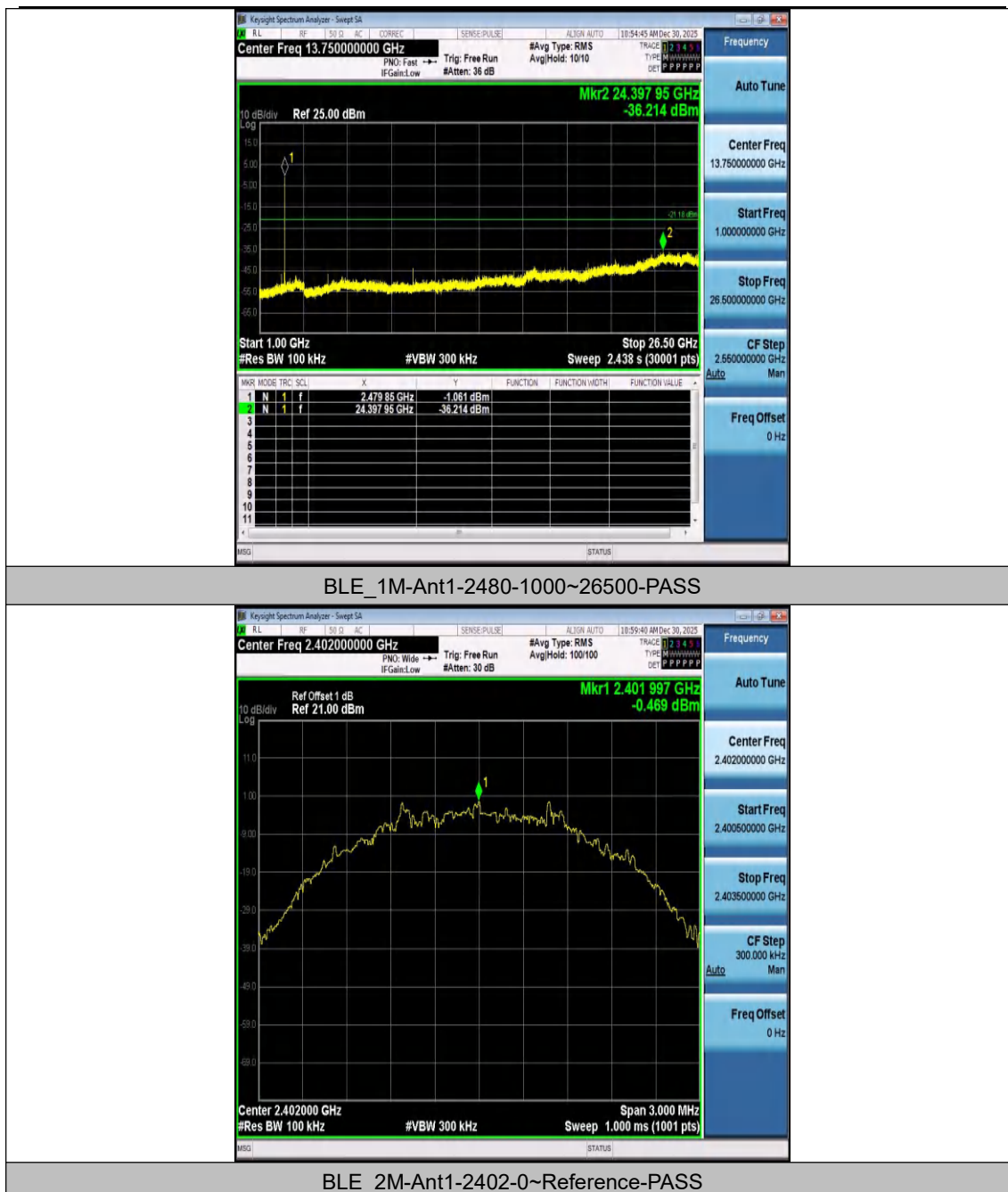
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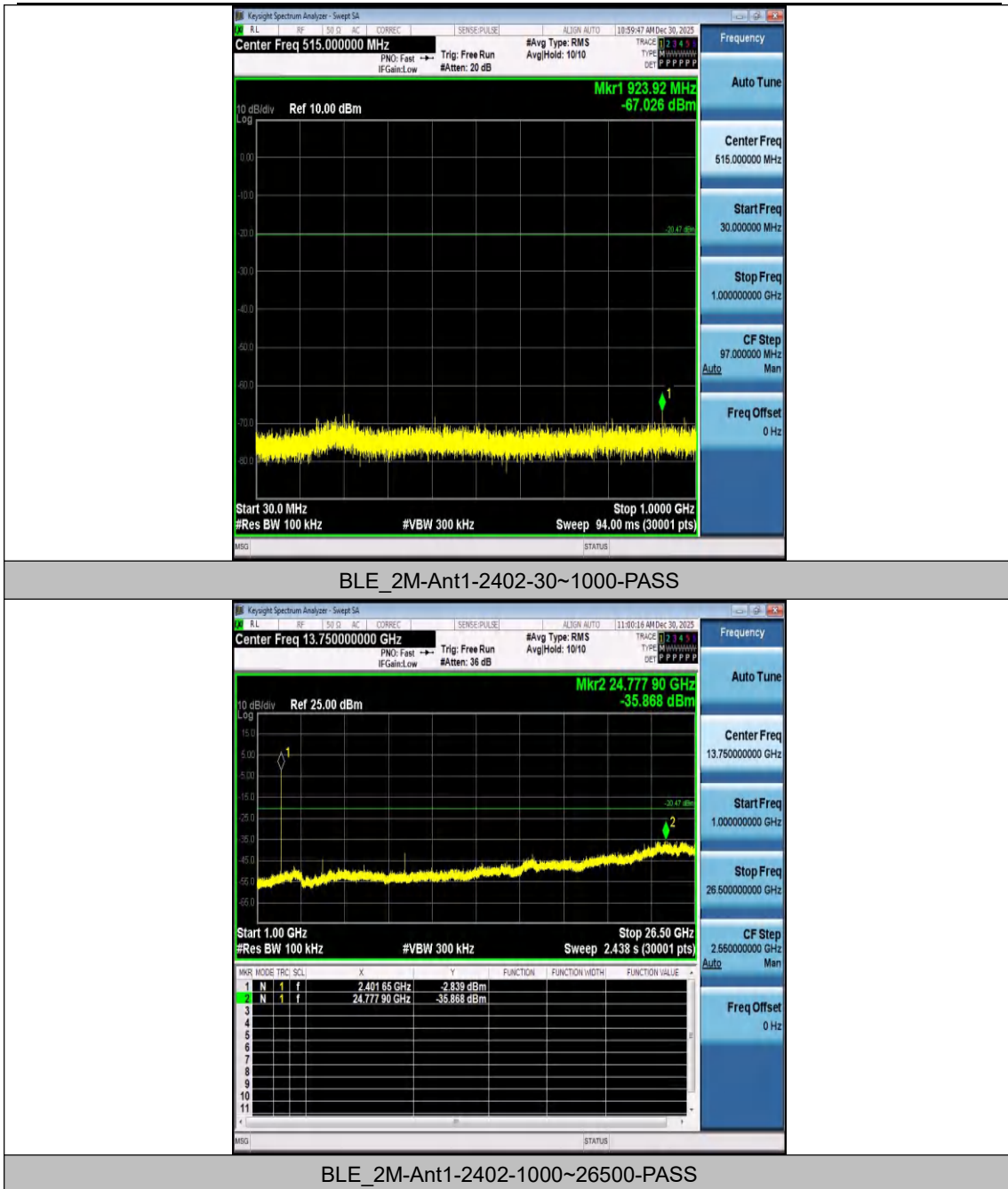
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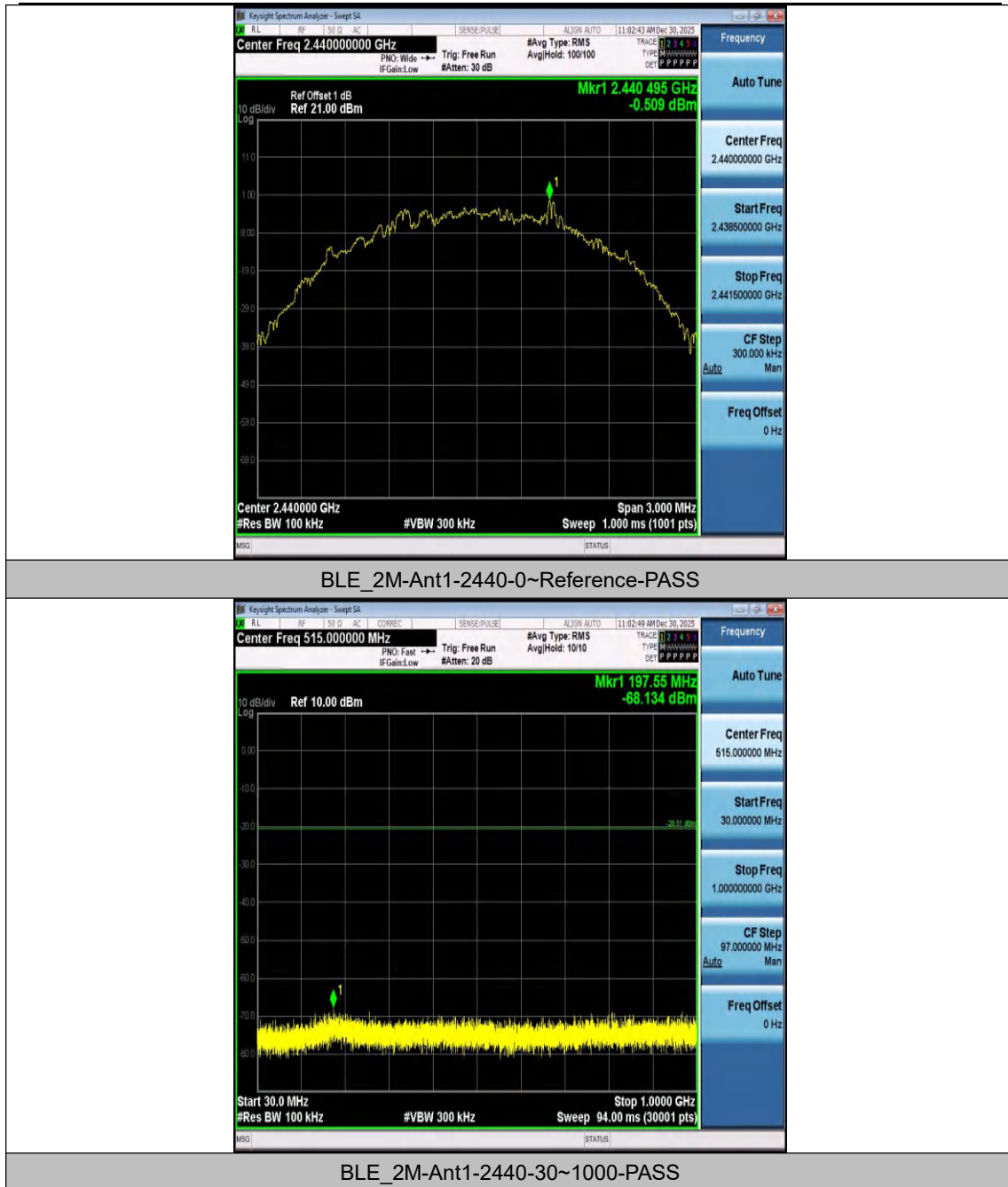
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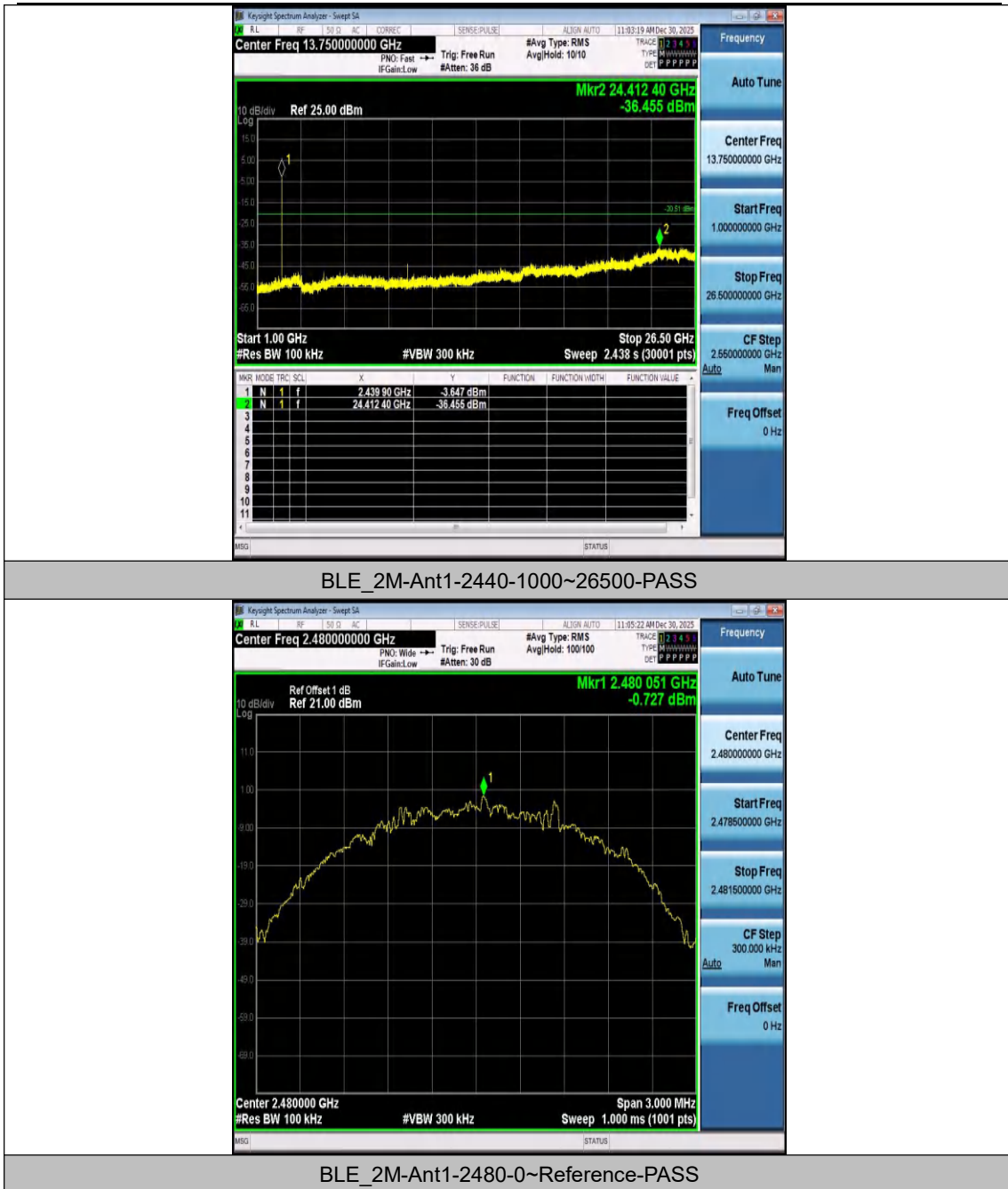
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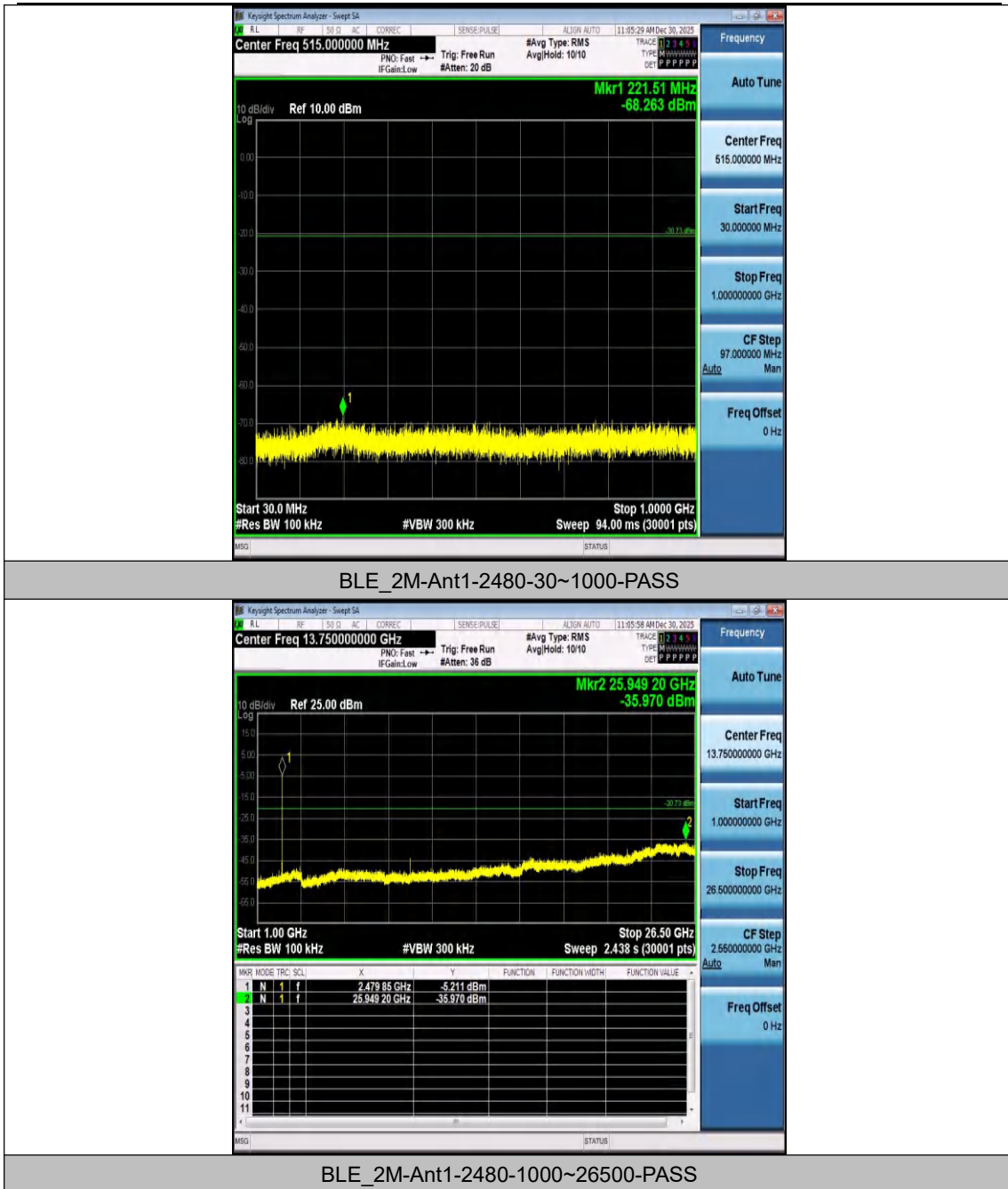
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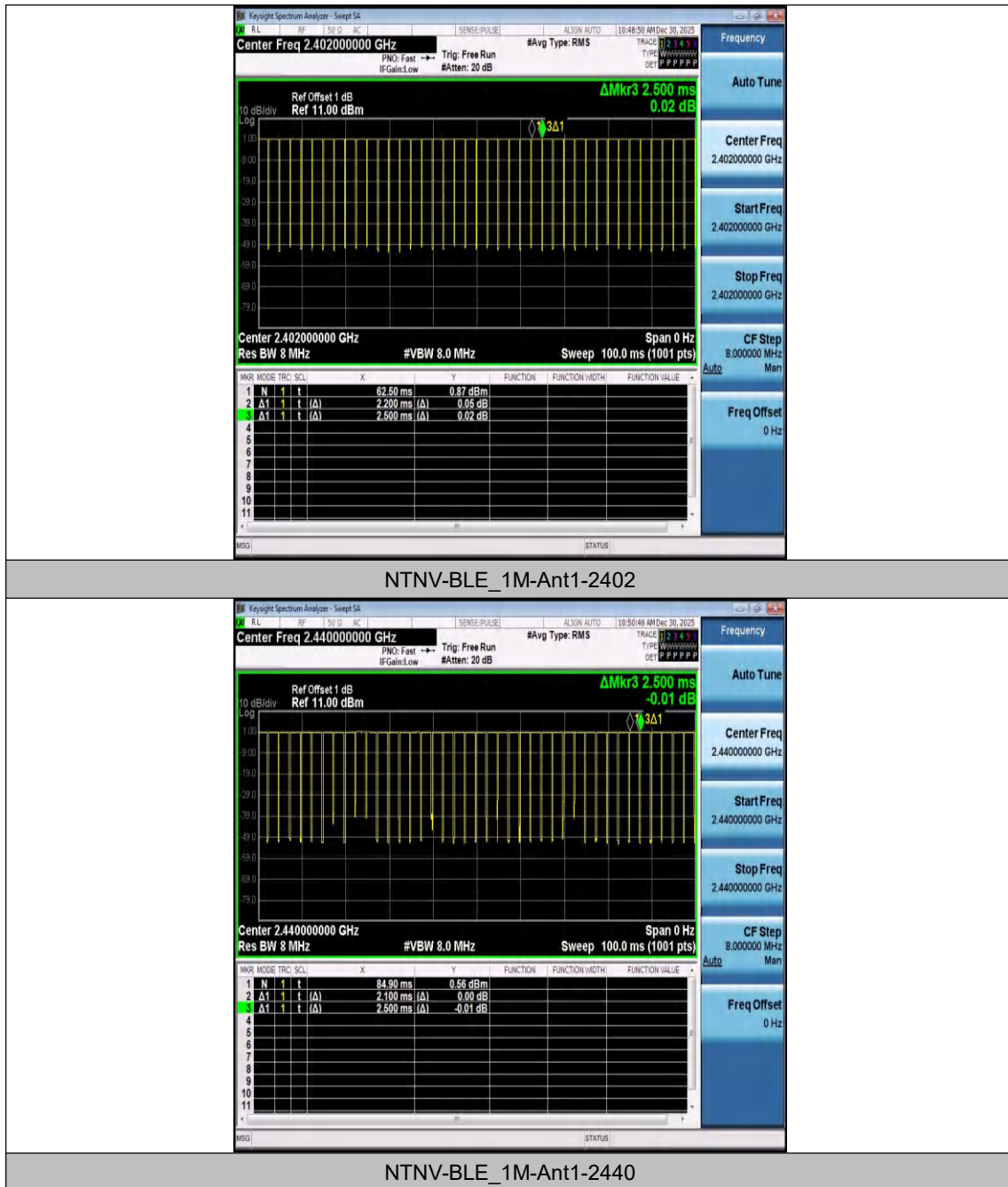
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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.20	2.50	88.00	0.56
BLE_1M	Ant1	2440	2.10	2.50	84.00	0.76
BLE_1M	Ant1	2480	2.10	2.50	84.00	0.76
BLE_2M	Ant1	2402	1.00	2.50	40.00	3.98
BLE_2M	Ant1	2440	1.10	2.50	44.00	3.57
BLE_2M	Ant1	2480	1.10	2.50	44.00	3.57

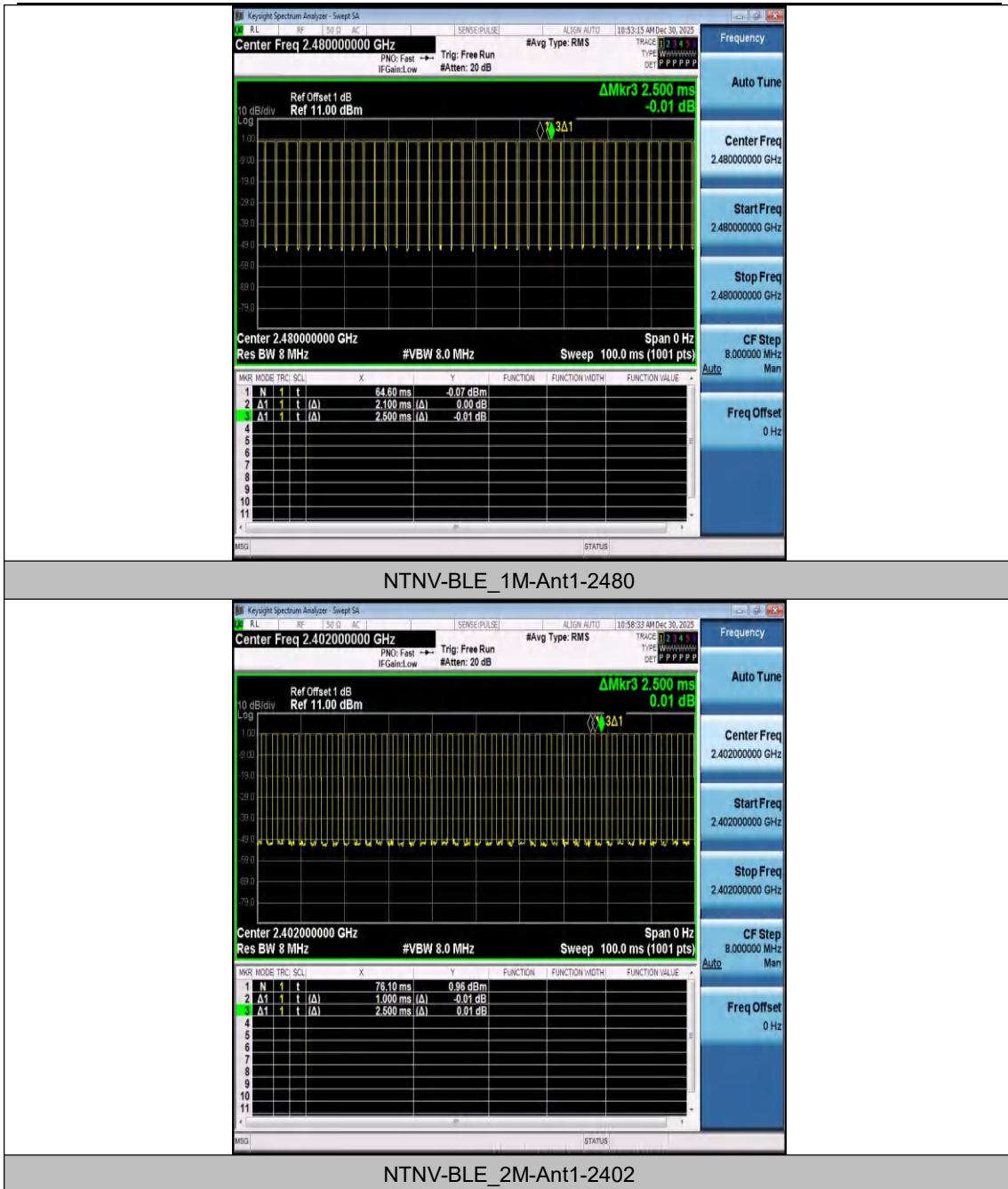
Test Graphs



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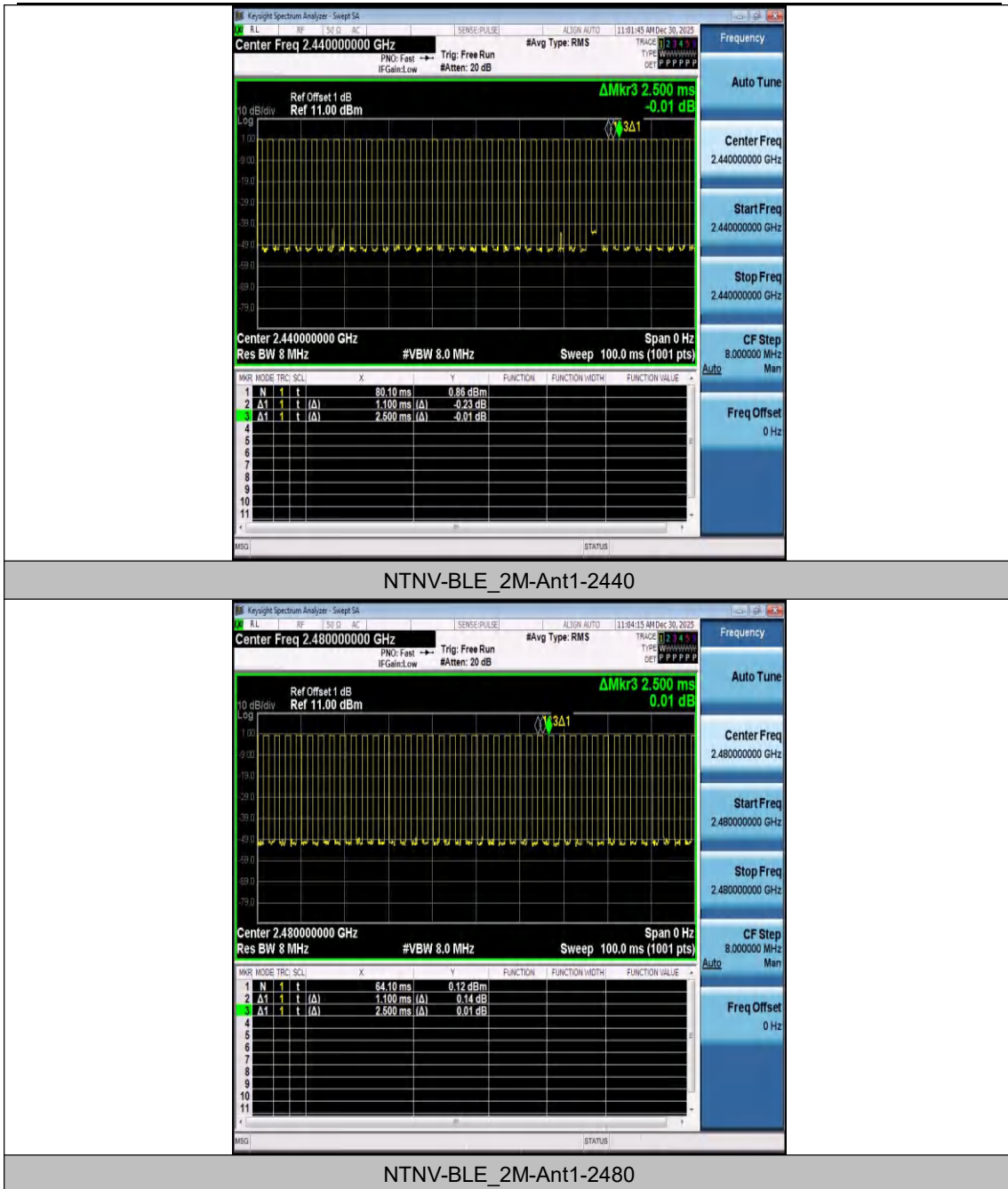
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