

Appendix Test Data

Report No.:	1819C50116412502-01	Test Sample No.:	1-2-2
Start Test Date:	2025-10-28	Finish Test Date:	2025-10-29
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.1°C	Relative Humidity:	50%
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	0.700	2401.652	2402.352	0.5	PASS
BLE_1M	Ant1	2440	0.672	2439.676	2440.348	0.5	PASS
BLE_1M	Ant1	2480	0.728	2479.632	2480.360	0.5	PASS
BLE_2M	Ant1	2402	1.344	2401.356	2402.700	0.5	PASS
BLE_2M	Ant1	2440	1.312	2439.336	2440.648	0.5	PASS
BLE_2M	Ant1	2480	1.376	2479.352	2480.728	0.5	PASS

Test Graphs



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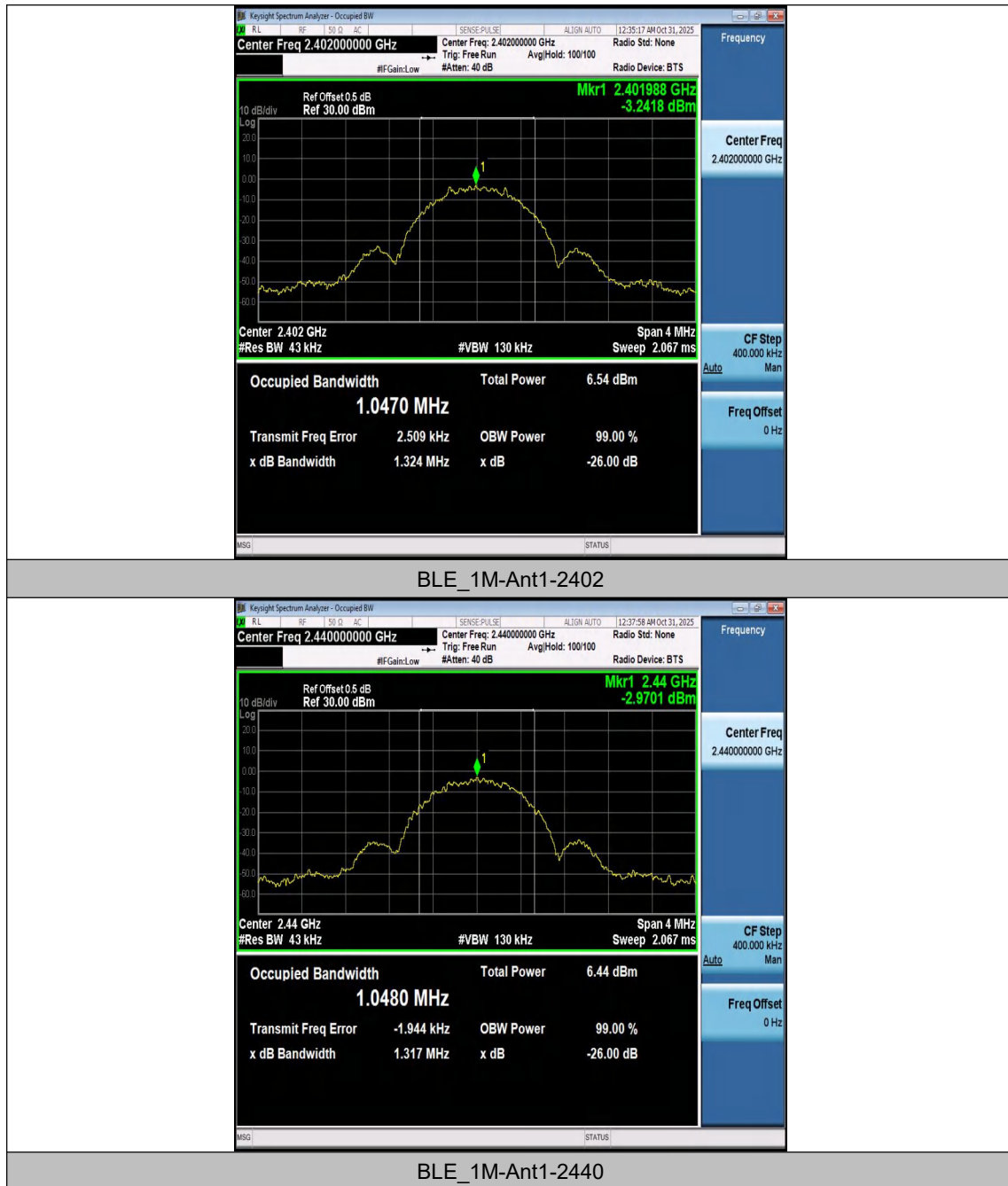
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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0470	2401.4790	2402.5260	---	---
BLE_1M	Ant1	2440	1.0480	2439.4741	2440.5221	---	---
BLE_1M	Ant1	2480	1.0662	2479.4707	2480.5369	---	---
BLE_2M	Ant1	2402	2.0654	2400.9707	2403.0361	---	---
BLE_2M	Ant1	2440	2.0503	2438.9757	2441.0260	---	---
BLE_2M	Ant1	2480	2.0704	2478.9574	2481.0278	---	---

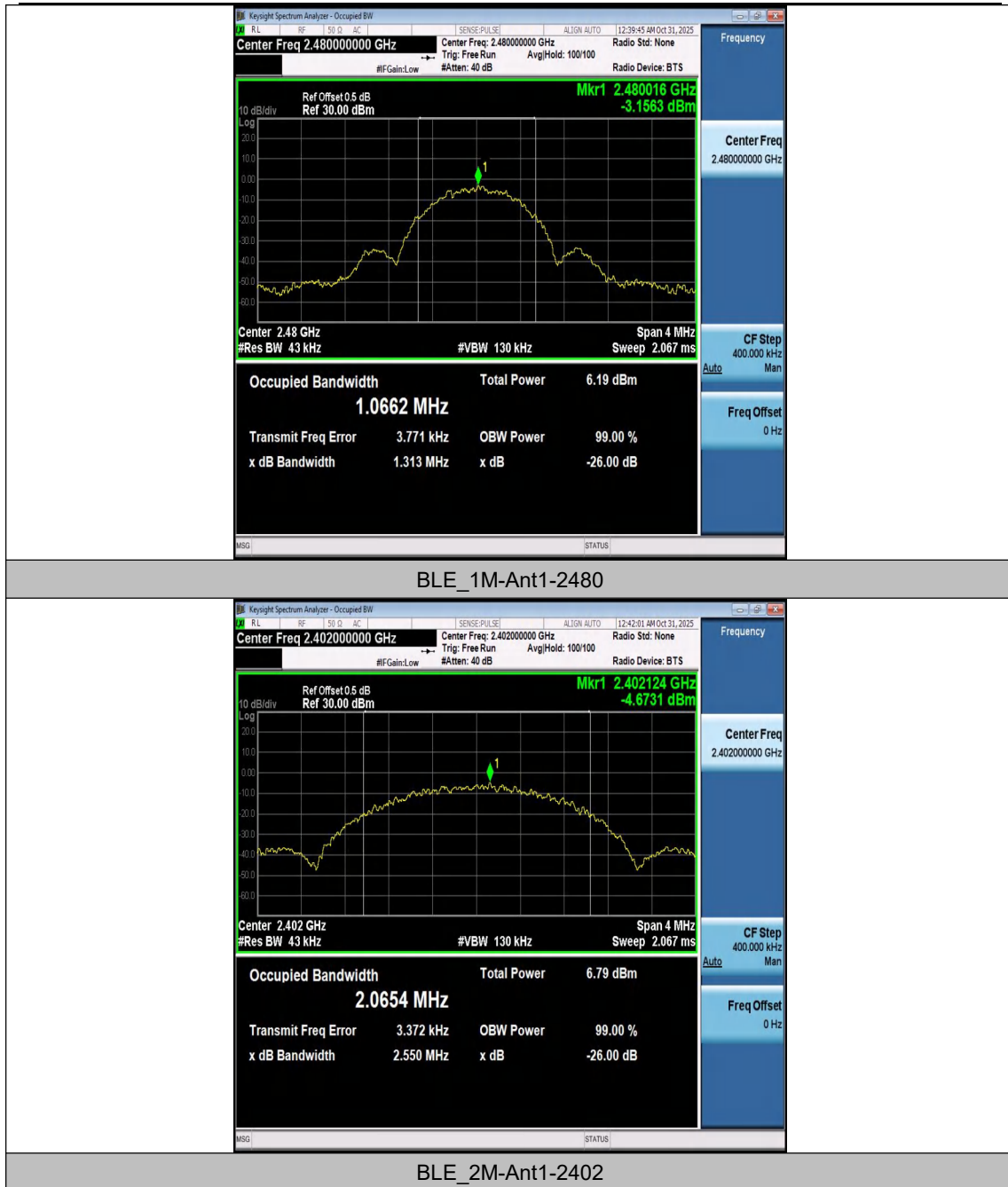
Test Graphs



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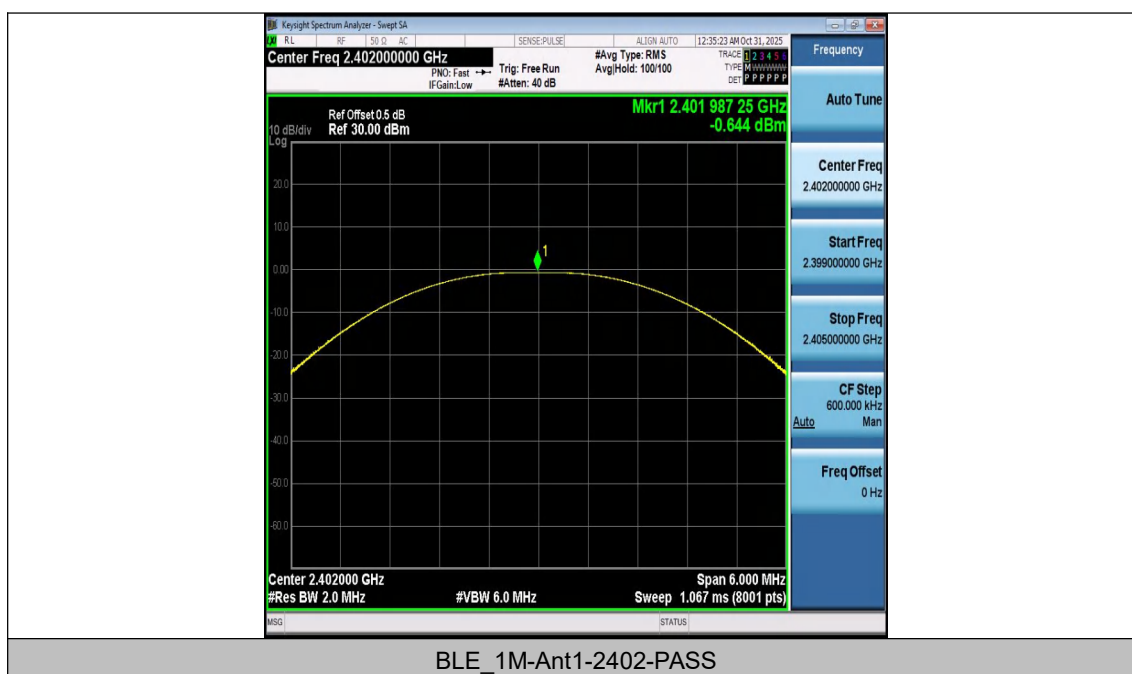
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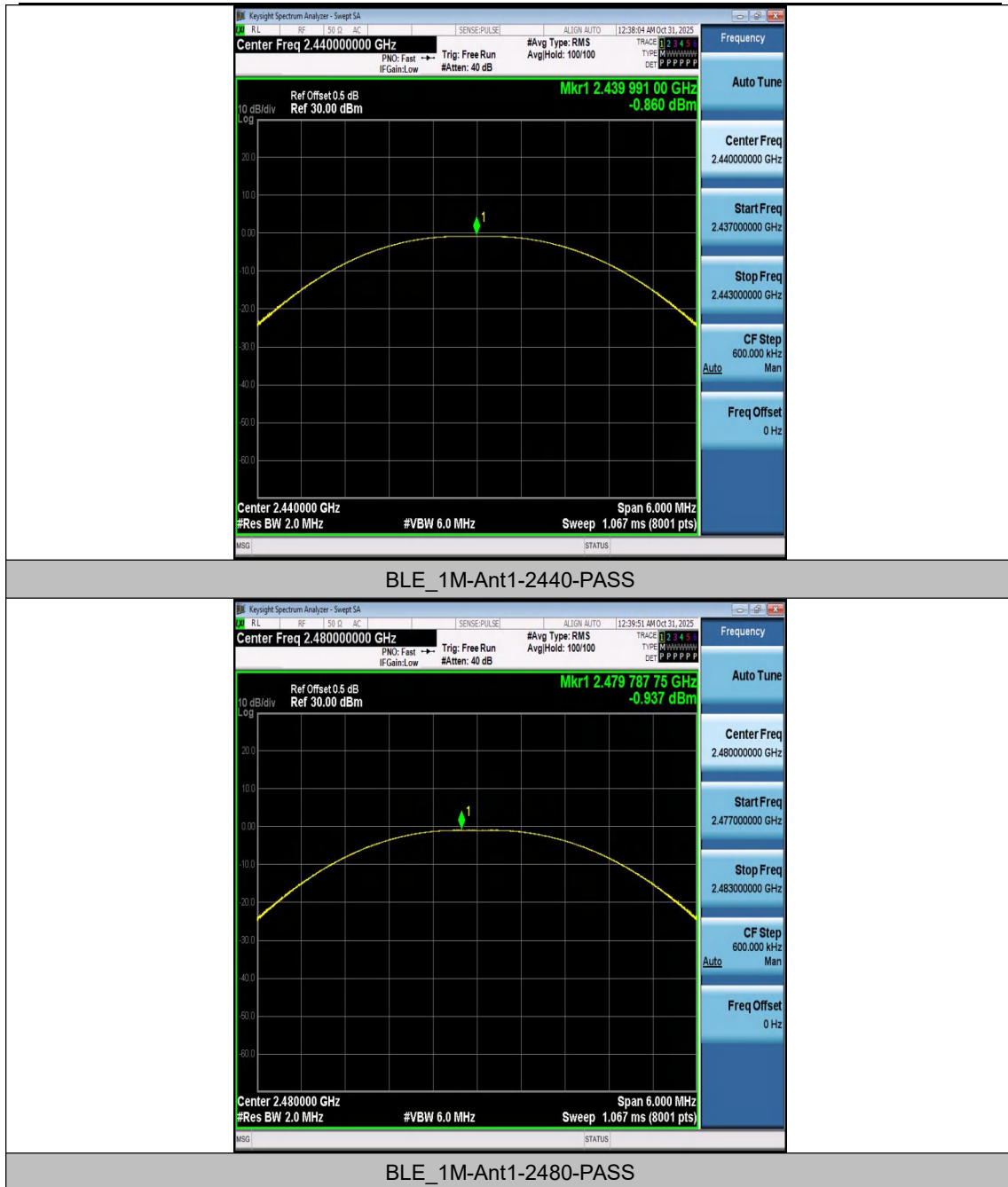
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.64	≤30	PASS
BLE_1M	Ant1	2440	-0.86	≤30	PASS
BLE_1M	Ant1	2480	-0.94	≤30	PASS
BLE_2M	Ant1	2402	-0.62	≤30	PASS
BLE_2M	Ant1	2440	-0.86	≤30	PASS
BLE_2M	Ant1	2480	-1.01	≤30	PASS

Test Graphs Peak

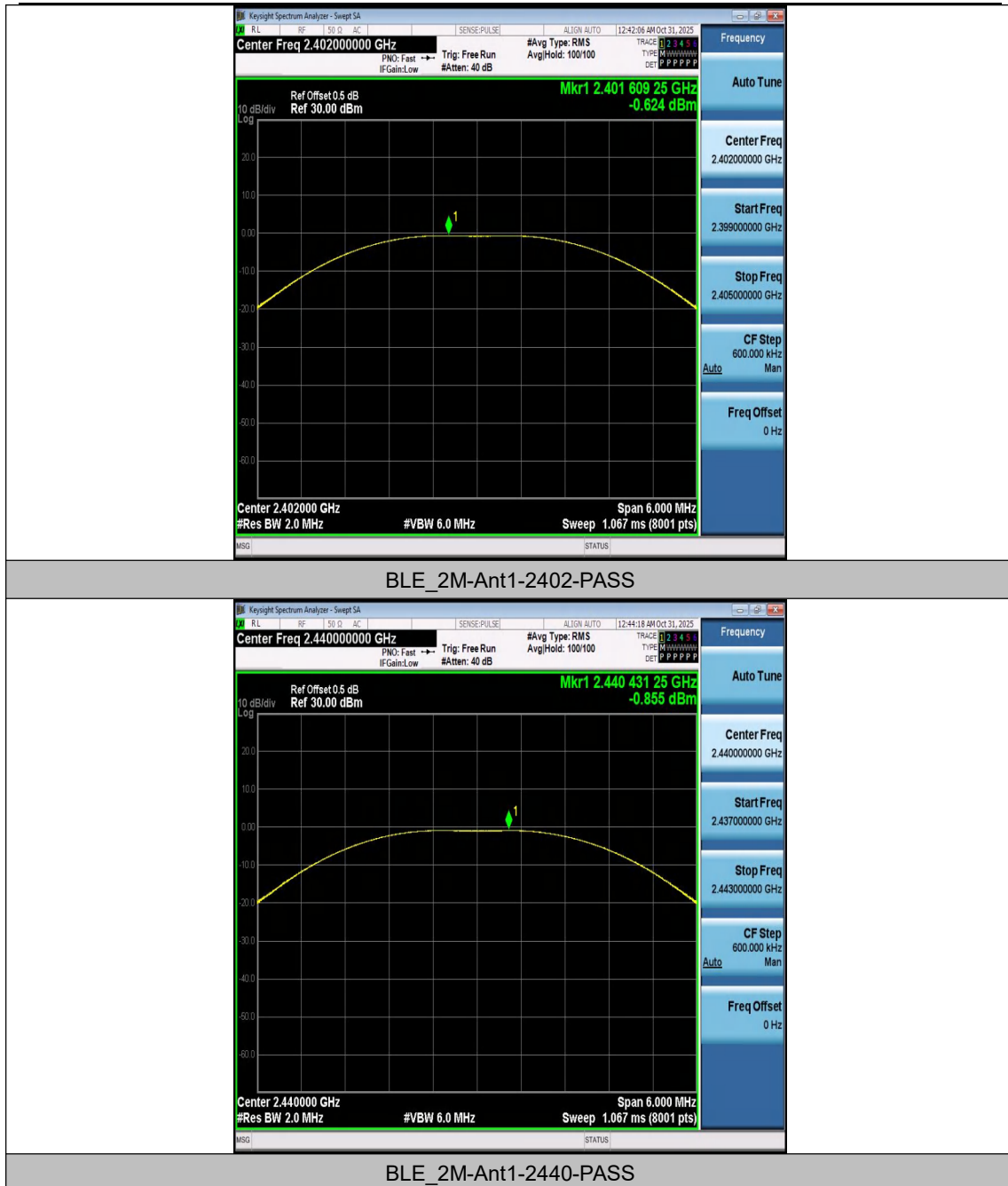




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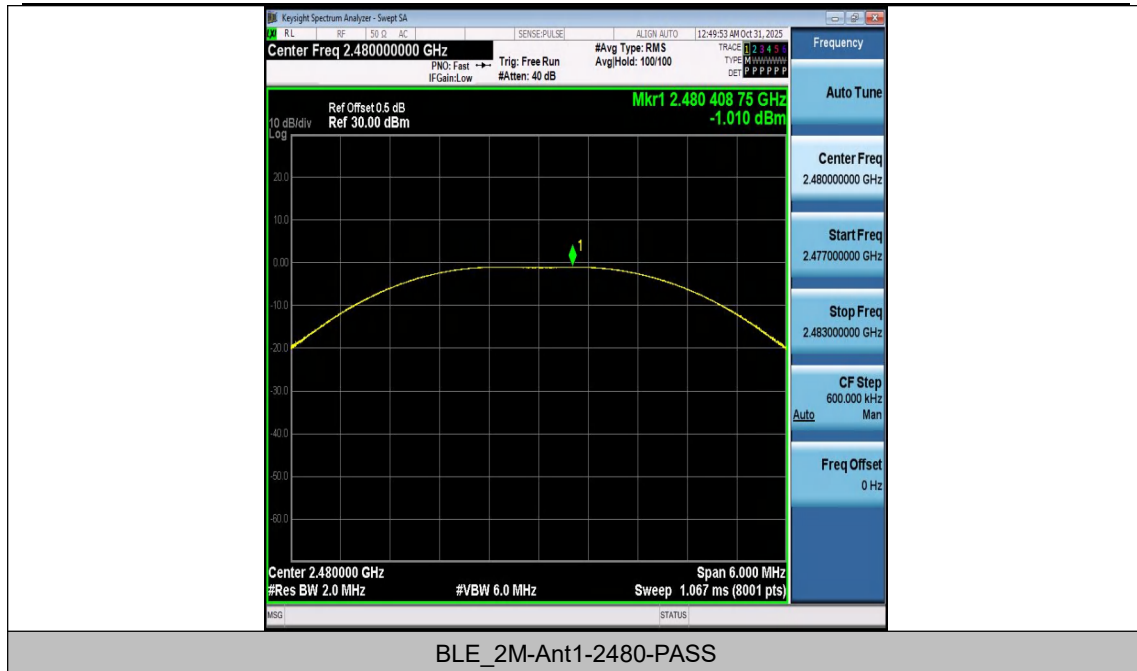
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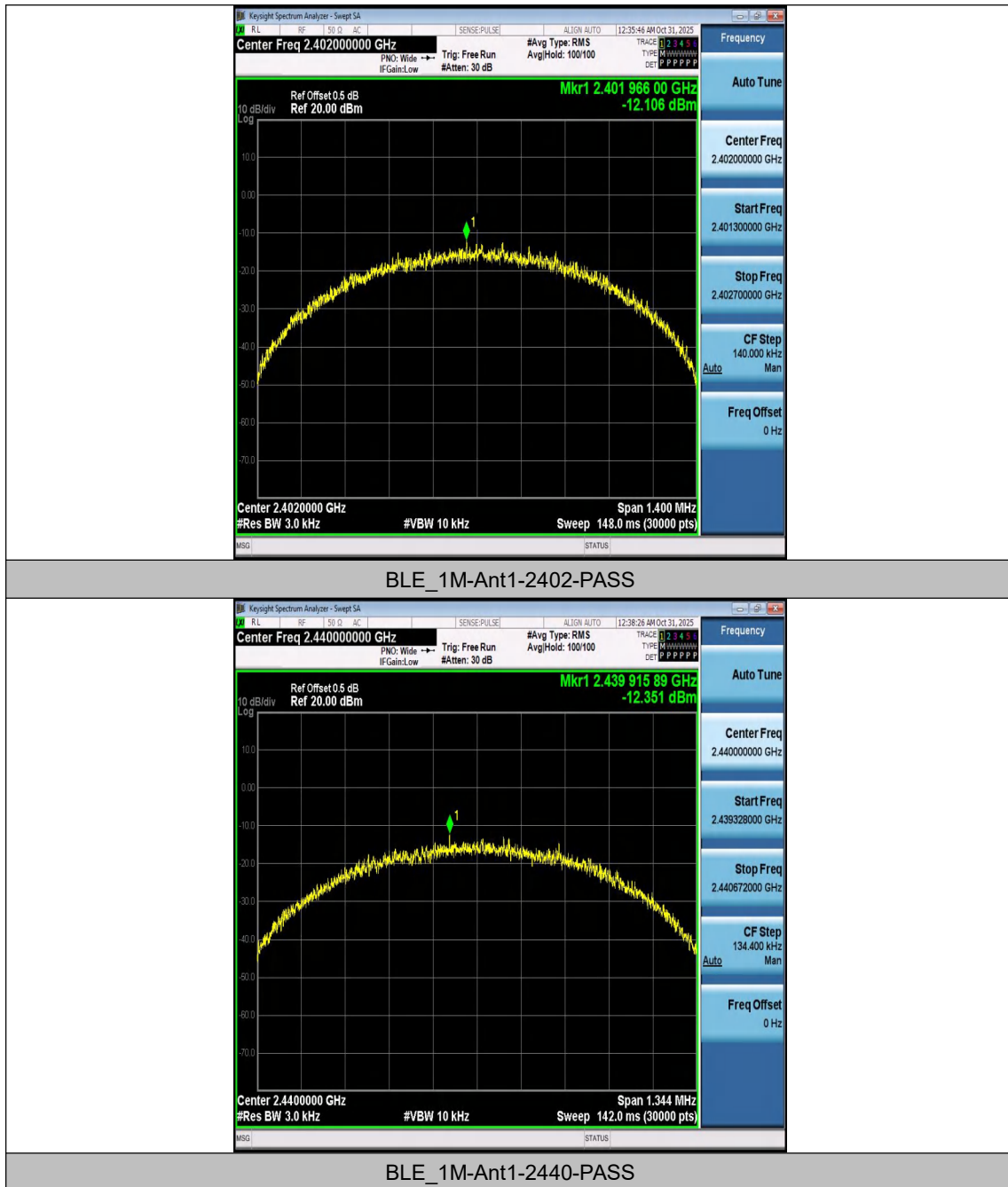
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.11	≤8.00	PASS
BLE_1M	Ant1	2440	-12.35	≤8.00	PASS
BLE_1M	Ant1	2480	-13.04	≤8.00	PASS
BLE_2M	Ant1	2402	-15.50	≤8.00	PASS
BLE_2M	Ant1	2440	-15.96	≤8.00	PASS
BLE_2M	Ant1	2480	-15.86	≤8.00	PASS

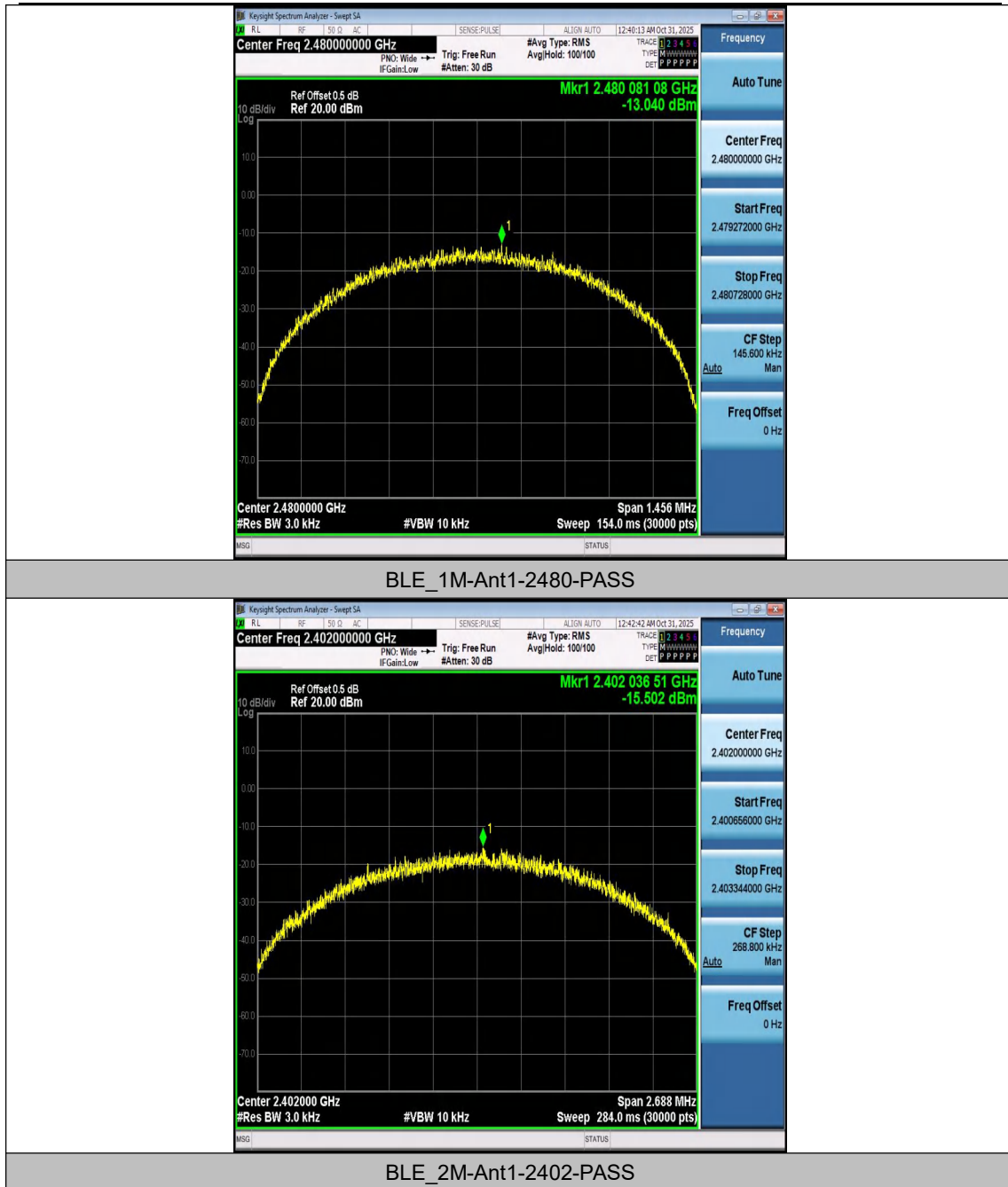
Test Graphs



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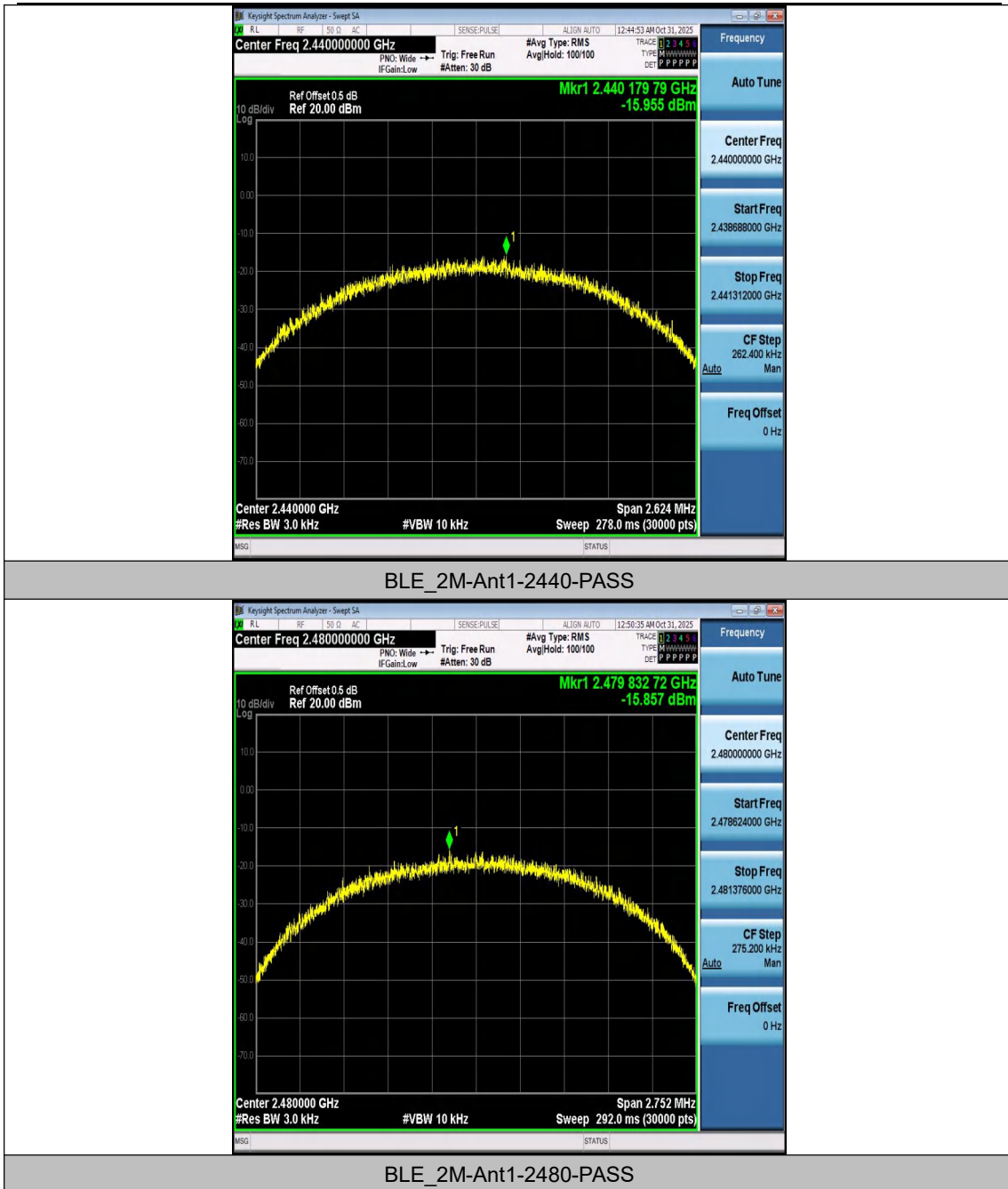
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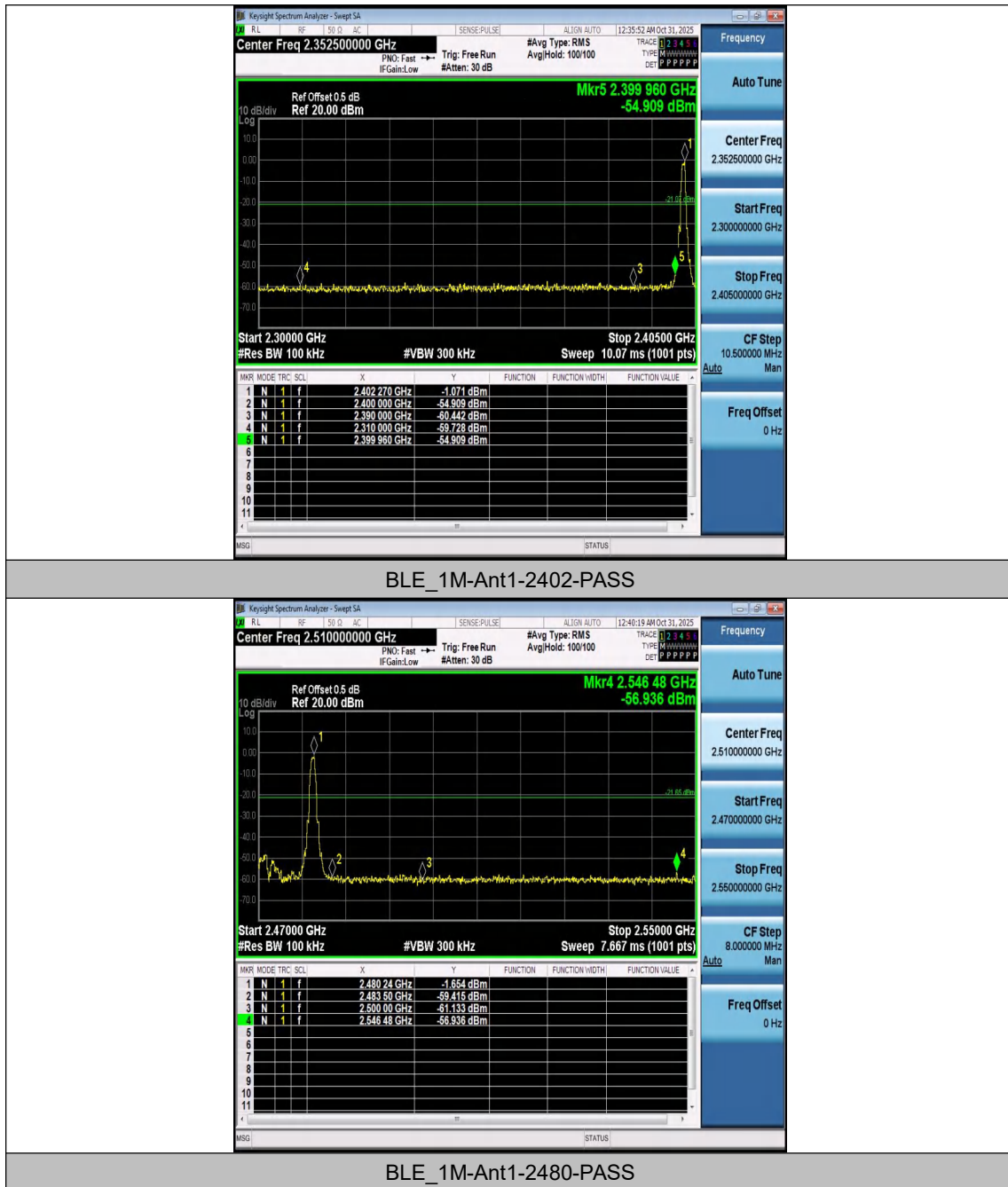
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.07	-54.91	≤-21.07	PASS
BLE_1M	Ant1	High	2480	-1.65	-56.94	≤-21.65	PASS
BLE_2M	Ant1	Low	2402	-3.56	-33.77	≤-23.56	PASS
BLE_2M	Ant1	High	2480	-3.27	-56.31	≤-23.27	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.

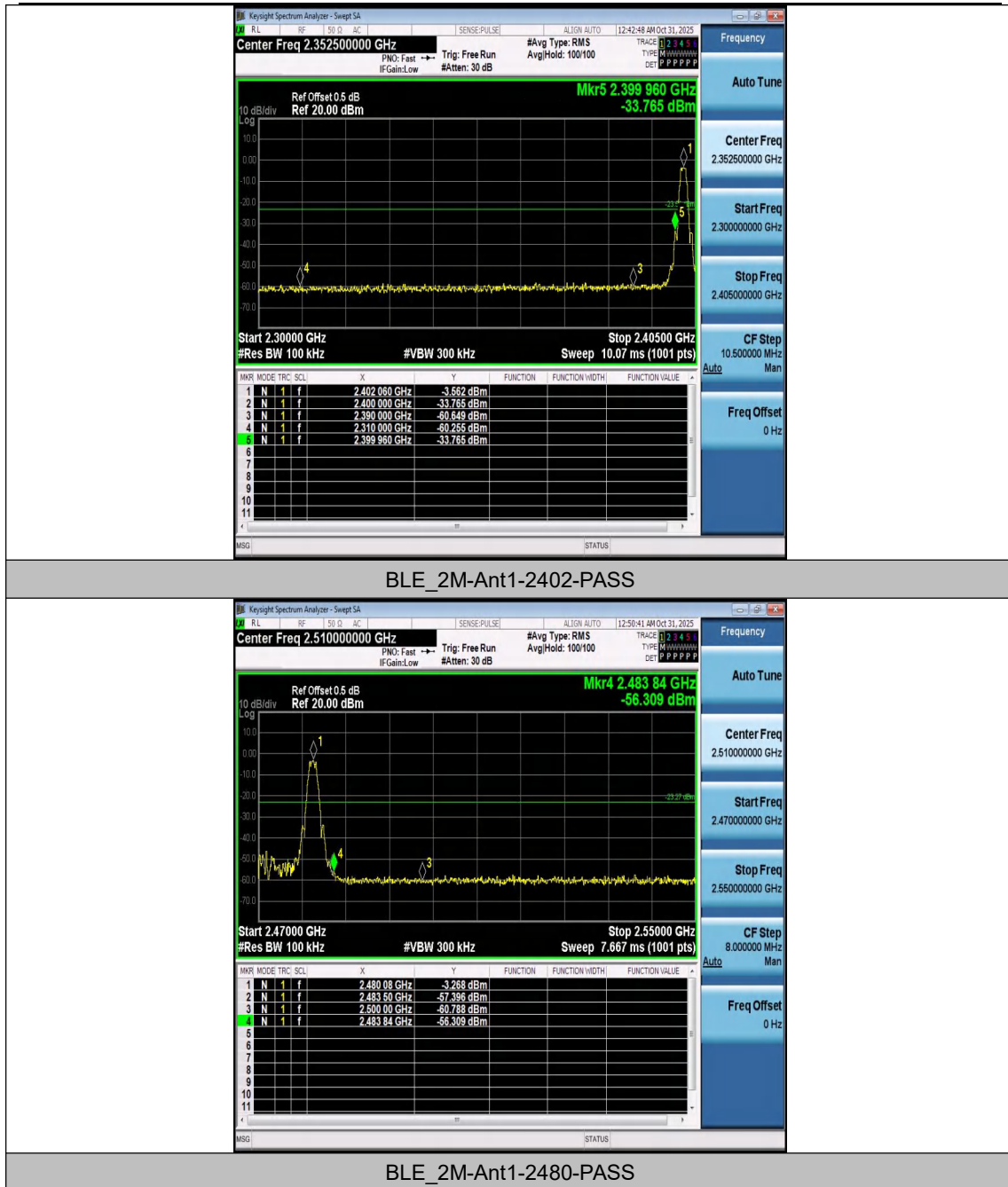
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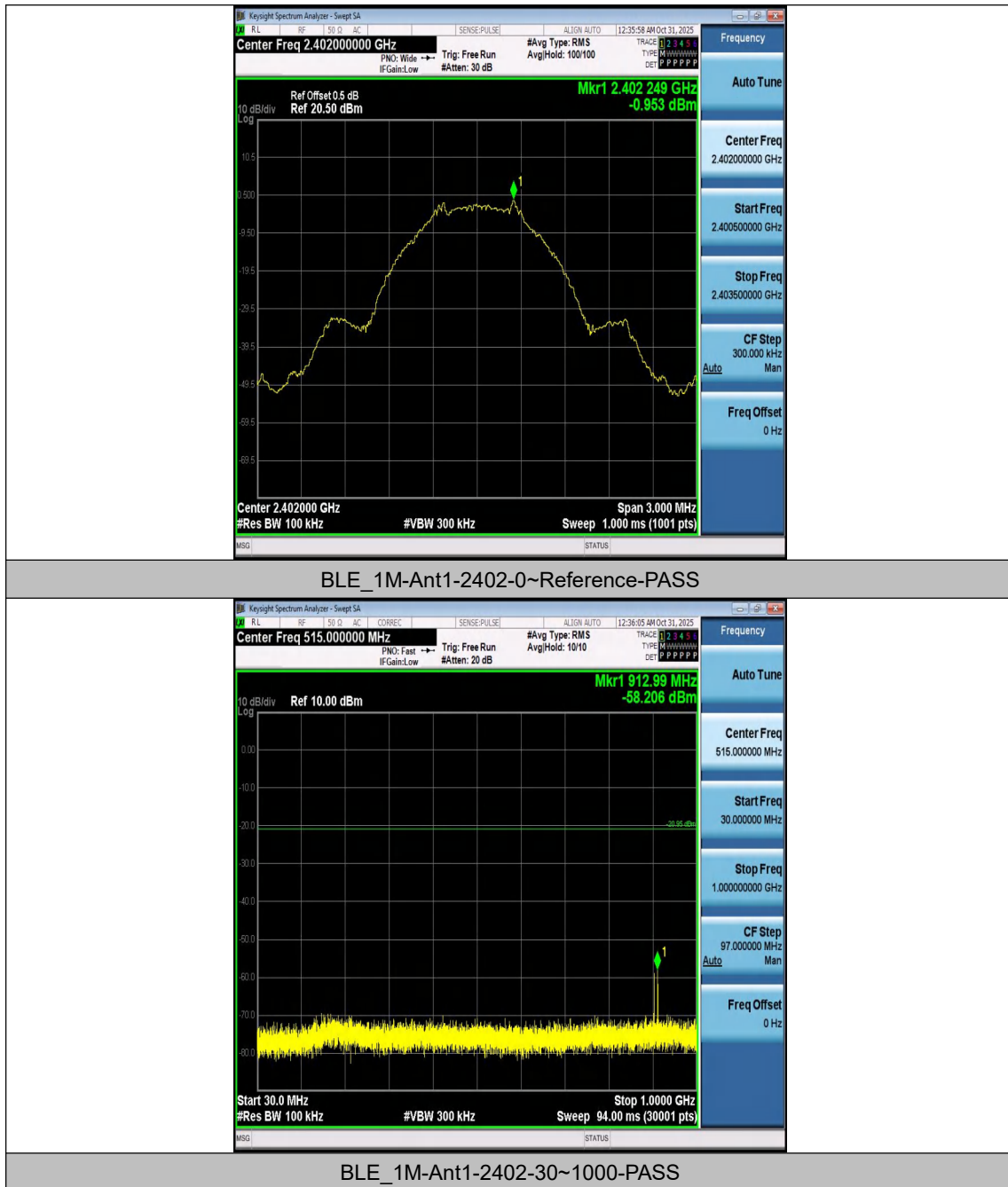
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.95	-0.95	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.95	-58.21	≤-20.95	PASS
BLE_1M	Ant1	2402	1000~26500	-0.95	-53.04	≤-20.95	PASS
BLE_1M	Ant1	2440	0~Reference	-1.34	-1.34	---	PASS
BLE_1M	Ant1	2440	30~1000	-1.34	-68.86	≤-21.34	PASS
BLE_1M	Ant1	2440	1000~26500	-1.34	-53.5	≤-21.34	PASS
BLE_1M	Ant1	2480	0~Reference	-1.36	-1.36	---	PASS
BLE_1M	Ant1	2480	30~1000	-1.36	-50.31	≤-21.36	PASS
BLE_1M	Ant1	2480	1000~26500	-1.36	-53.99	≤-21.36	PASS
BLE_2M	Ant1	2402	0~Reference	-2.73	-2.73	---	PASS
BLE_2M	Ant1	2402	30~1000	-2.73	-49.56	≤-22.73	PASS
BLE_2M	Ant1	2402	1000~26500	-2.73	-54.23	≤-22.73	PASS
BLE_2M	Ant1	2440	0~Reference	-2.90	-2.90	---	PASS
BLE_2M	Ant1	2440	30~1000	-2.90	-43	≤-22.9	PASS
BLE_2M	Ant1	2440	1000~26500	-2.90	-52.27	≤-22.9	PASS
BLE_2M	Ant1	2480	0~Reference	-3.21	-3.21	---	PASS
BLE_2M	Ant1	2480	30~1000	-3.21	-41.73	≤-23.21	PASS
BLE_2M	Ant1	2480	1000~26500	-3.21	-53.9	≤-23.21	PASS

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

Test Graphs



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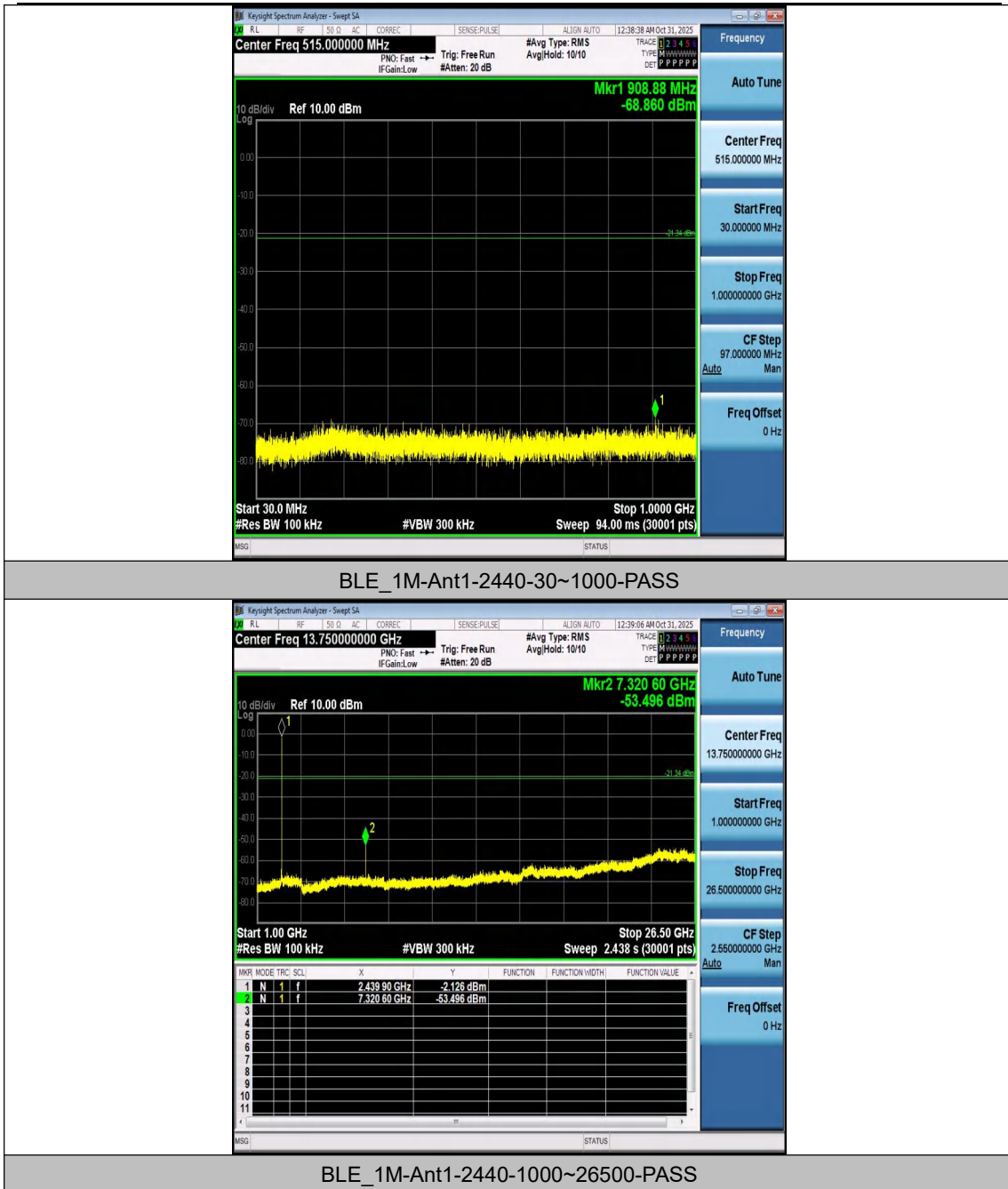
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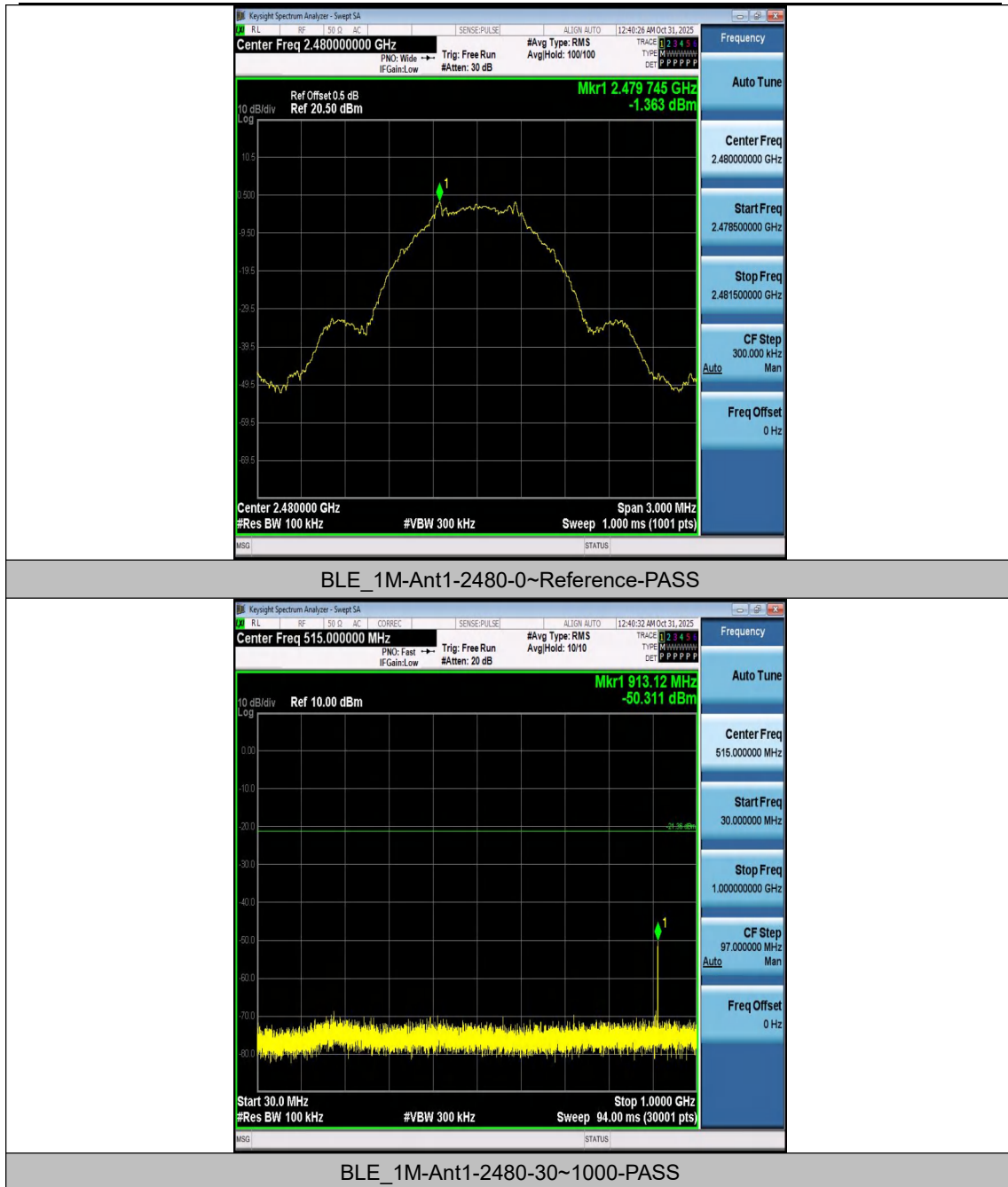
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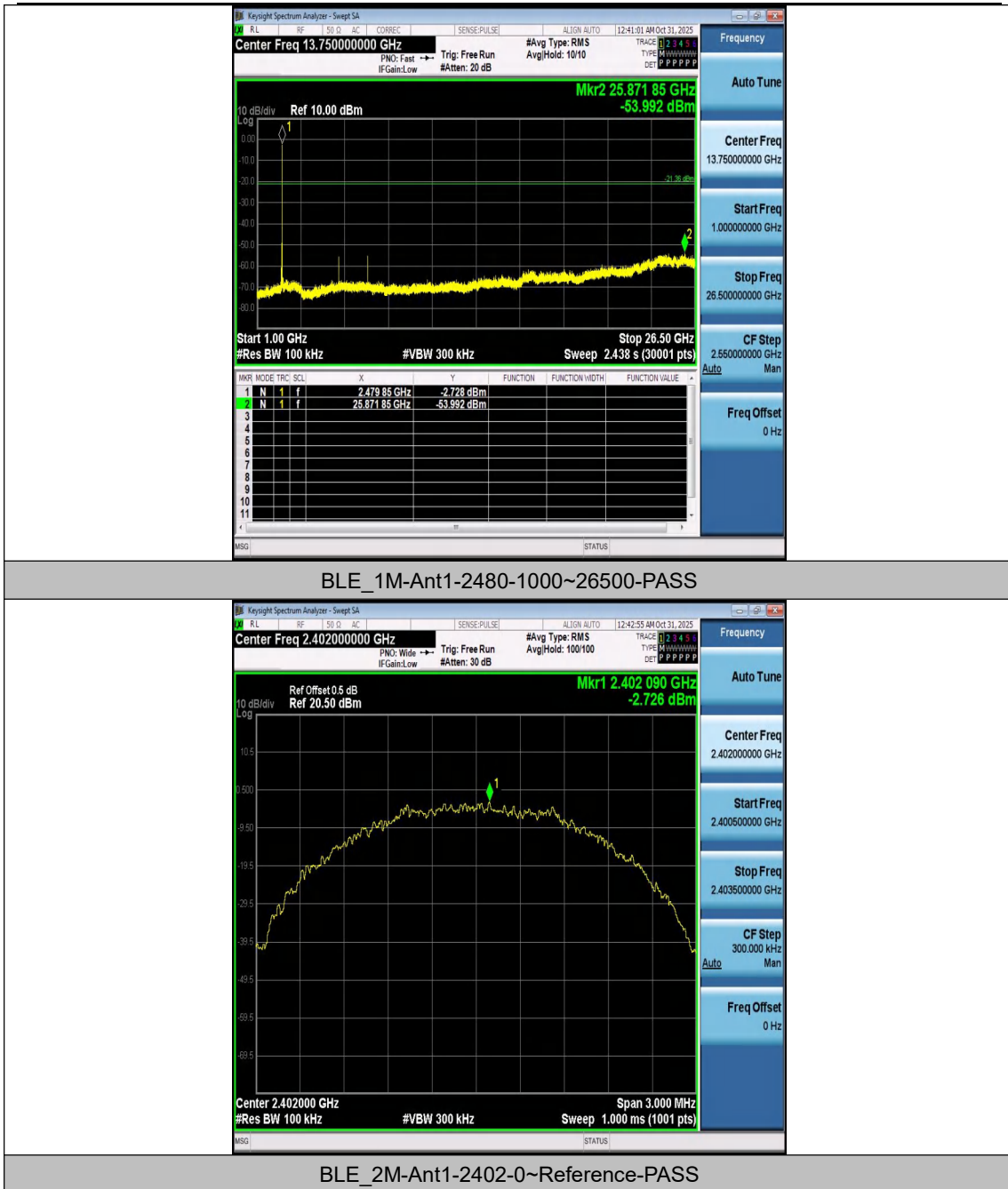
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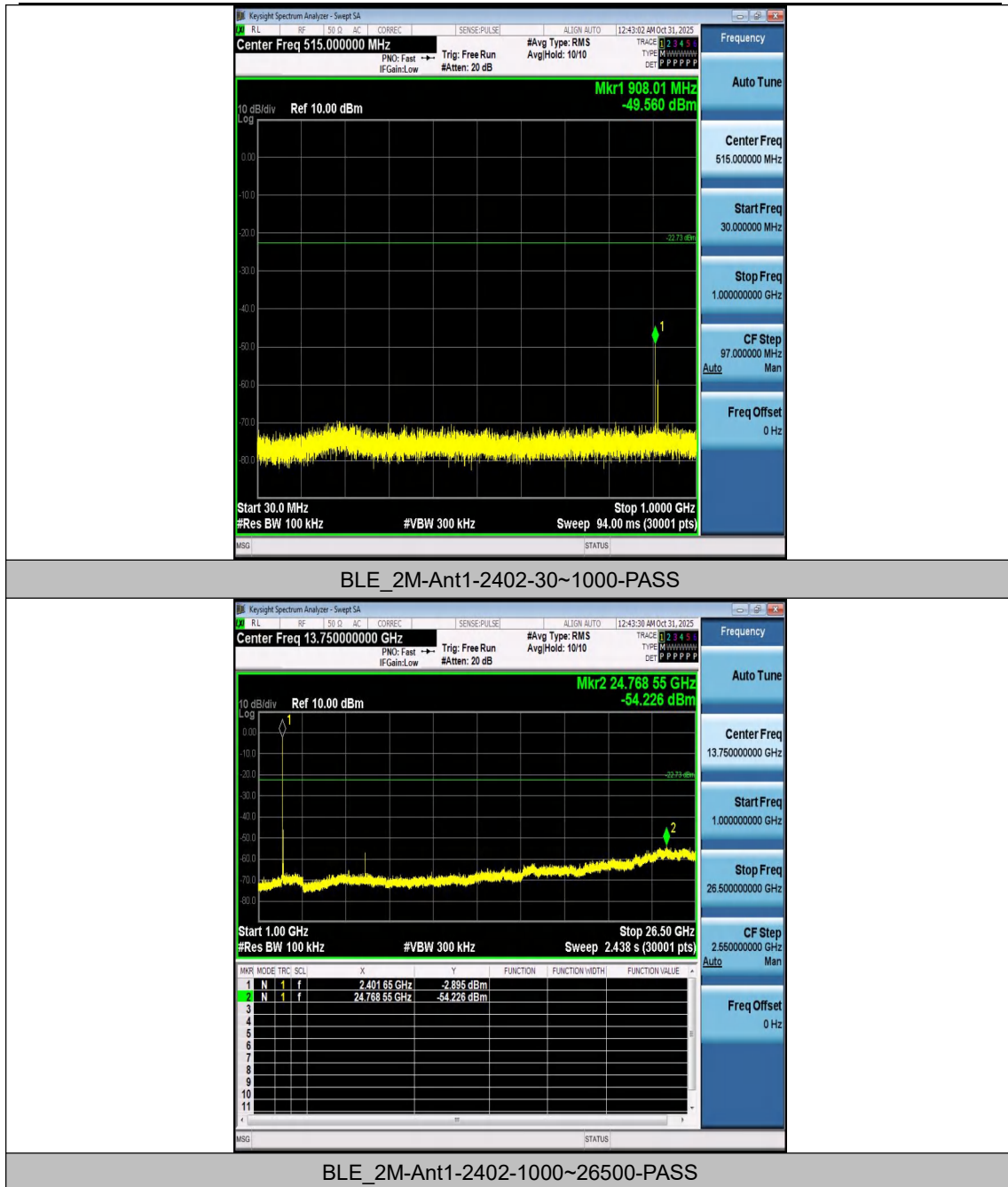
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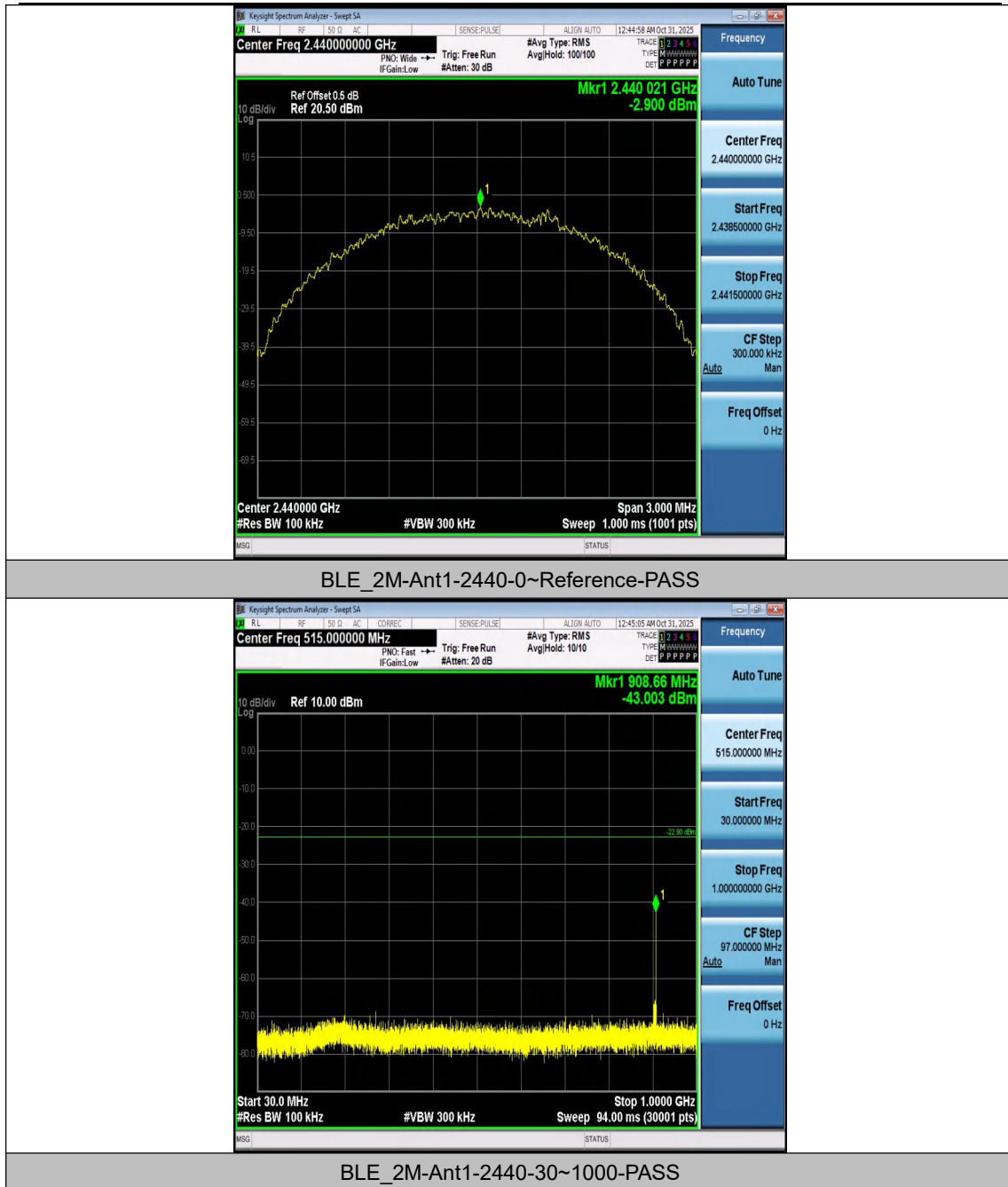
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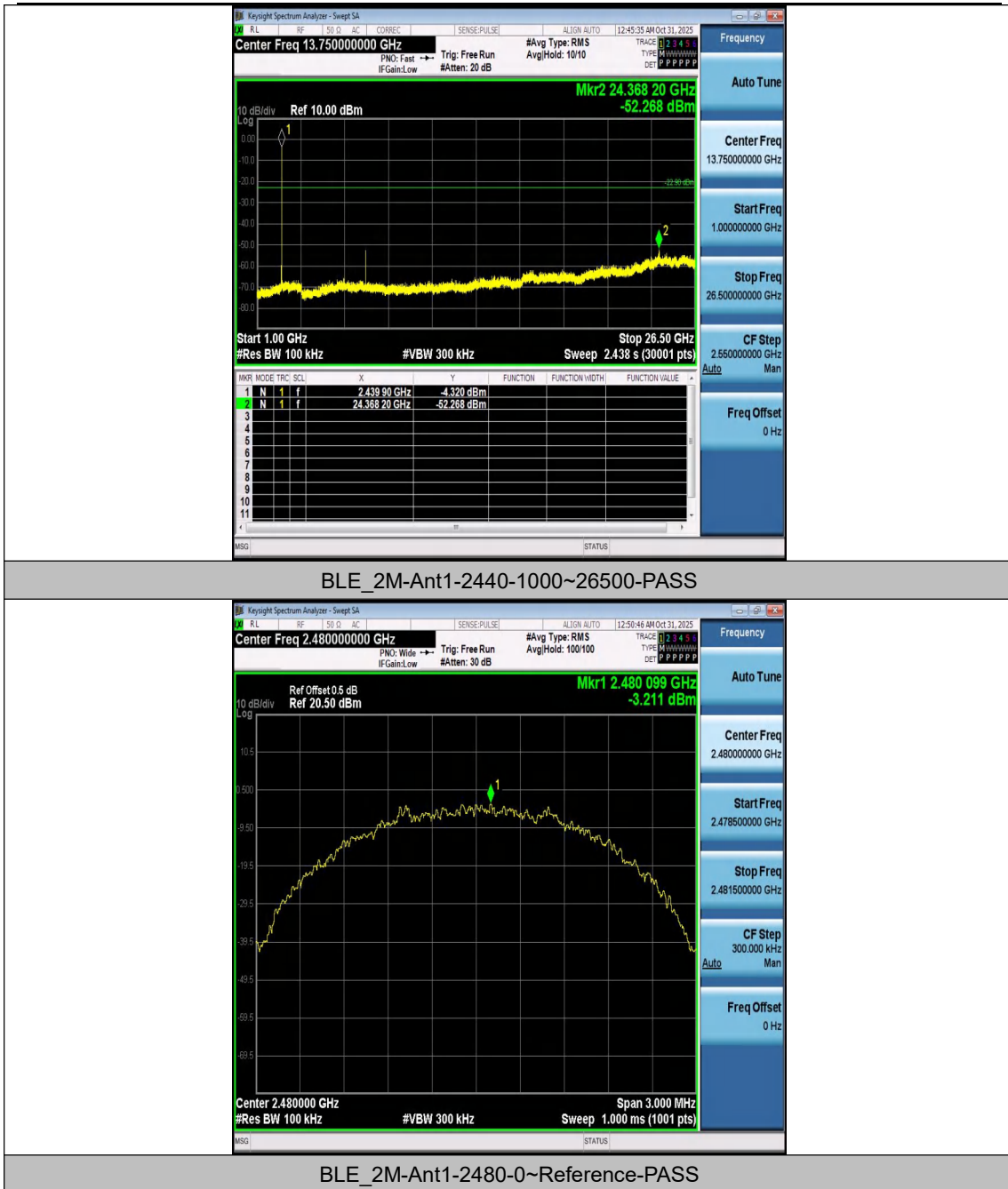
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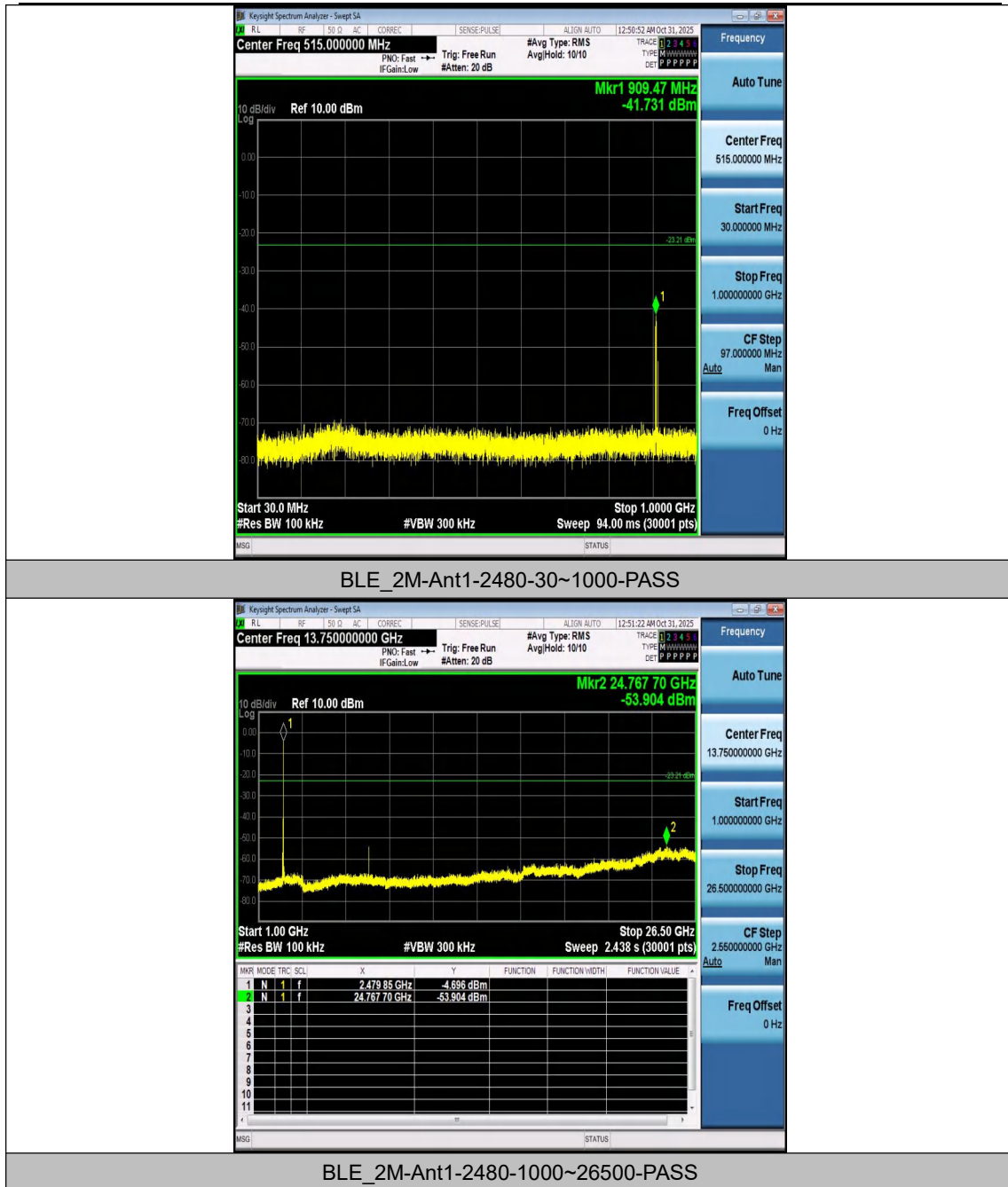
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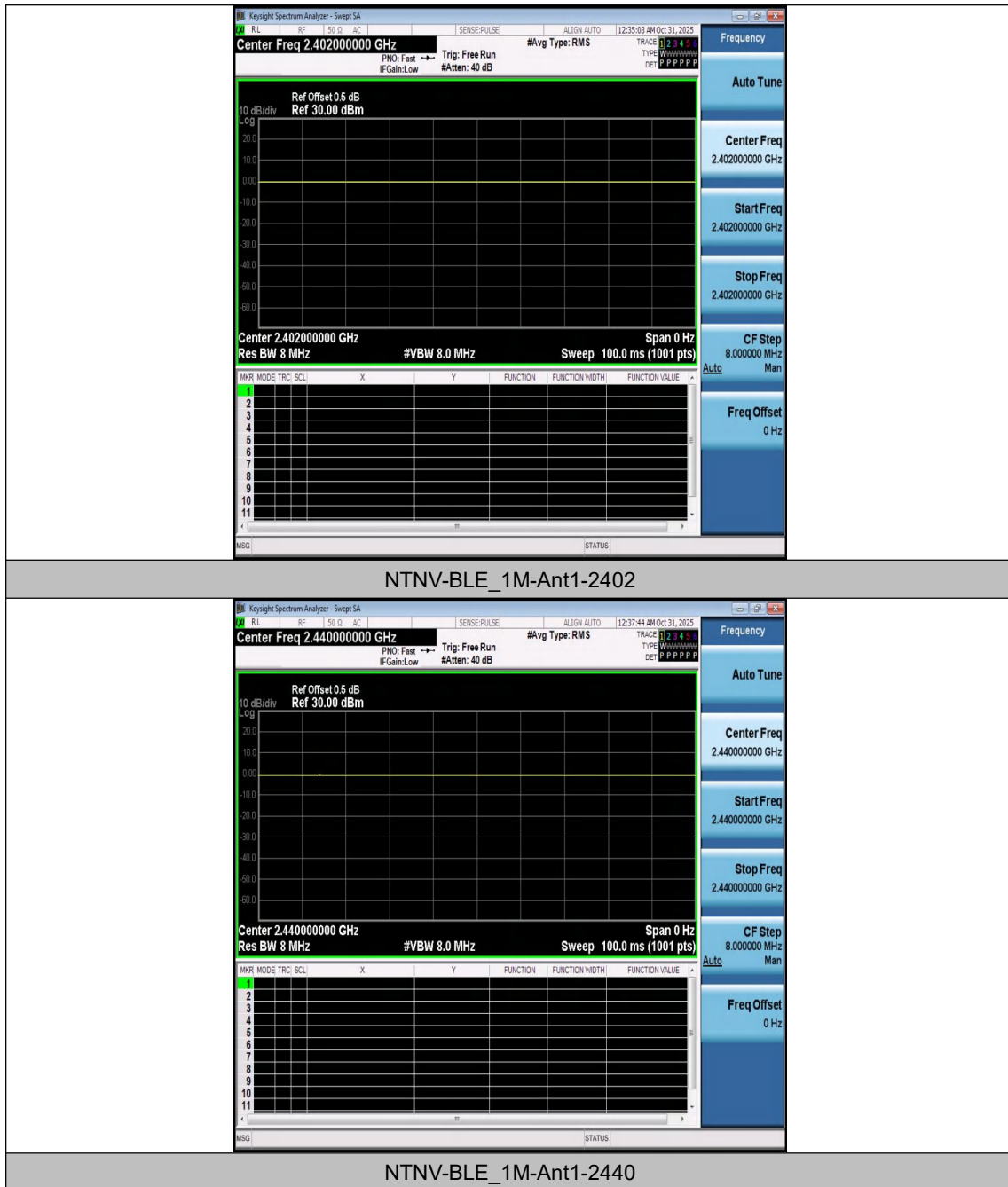
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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	100.00	100.00	100.00	0.00
BLE_1M	Ant1	2440	100.00	100.00	100.00	0.00
BLE_1M	Ant1	2480	100.00	100.00	100.00	0.00
BLE_2M	Ant1	2402	100.00	100.00	100.00	0.00
BLE_2M	Ant1	2440	100.00	100.00	100.00	0.00
BLE_2M	Ant1	2480	100.00	100.00	100.00	0.00

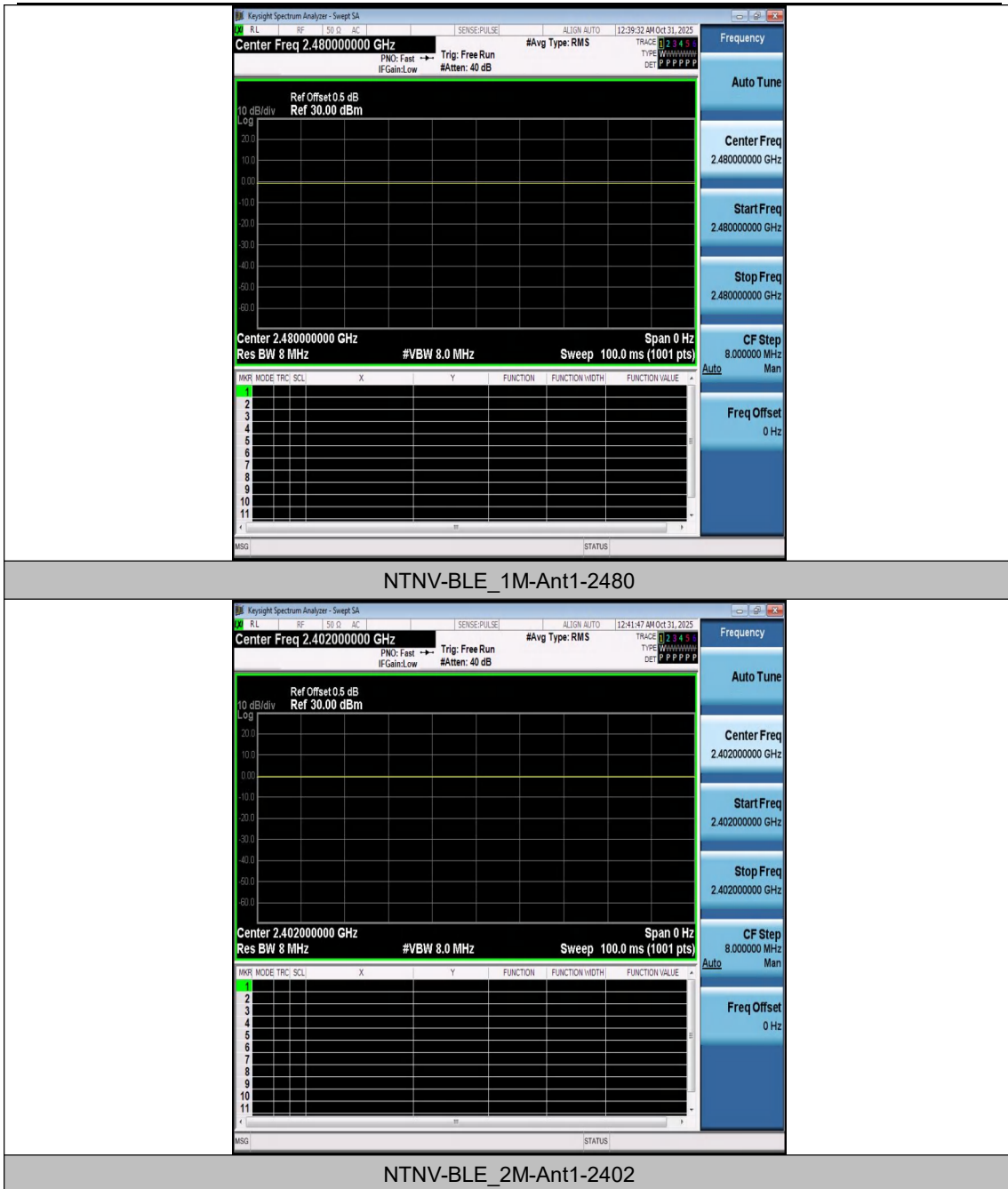
Test Graphs



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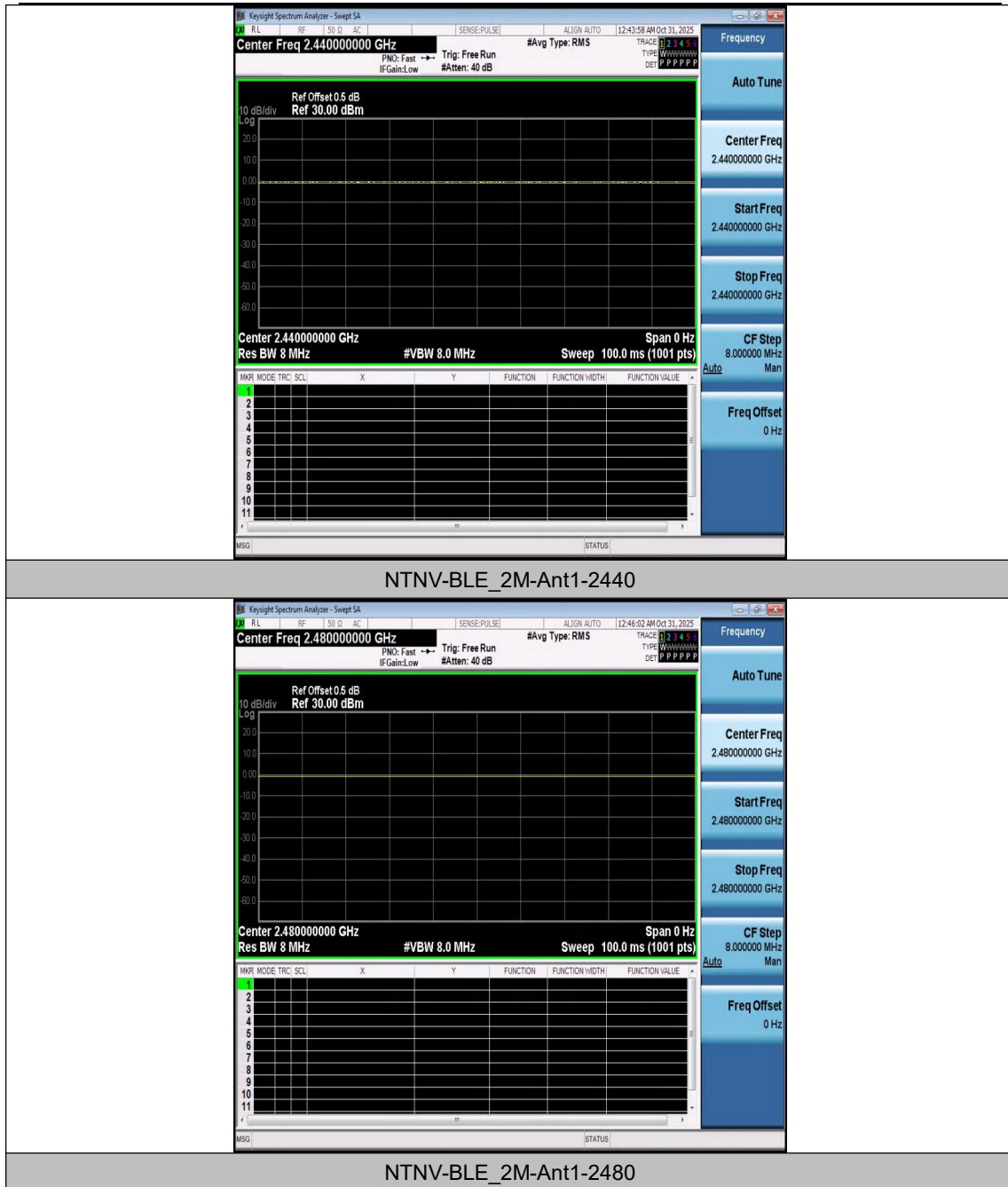
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