

Appendix Test Data

Report No.:	1812C50122412501	Test Sample No.:	1-2-2
Start Test Date:	2025-04-16	Finish Test Date:	2025-04-16
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26.5°C	Relative Humidity:	40%
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	2401.740	2402.412	0.5	PASS
BLE_1M	Ant1	2440	0.700	2439.728	2440.428	0.5	PASS
BLE_1M	Ant1	2480	0.680	2479.752	2480.432	0.5	PASS
BLE_2M	Ant1	2402	1.288	2401.460	2402.748	0.5	PASS
BLE_2M	Ant1	2440	1.432	2439.352	2440.784	0.5	PASS
BLE_2M	Ant1	2480	1.272	2479.448	2480.720	0.5	PASS

Test Graphs



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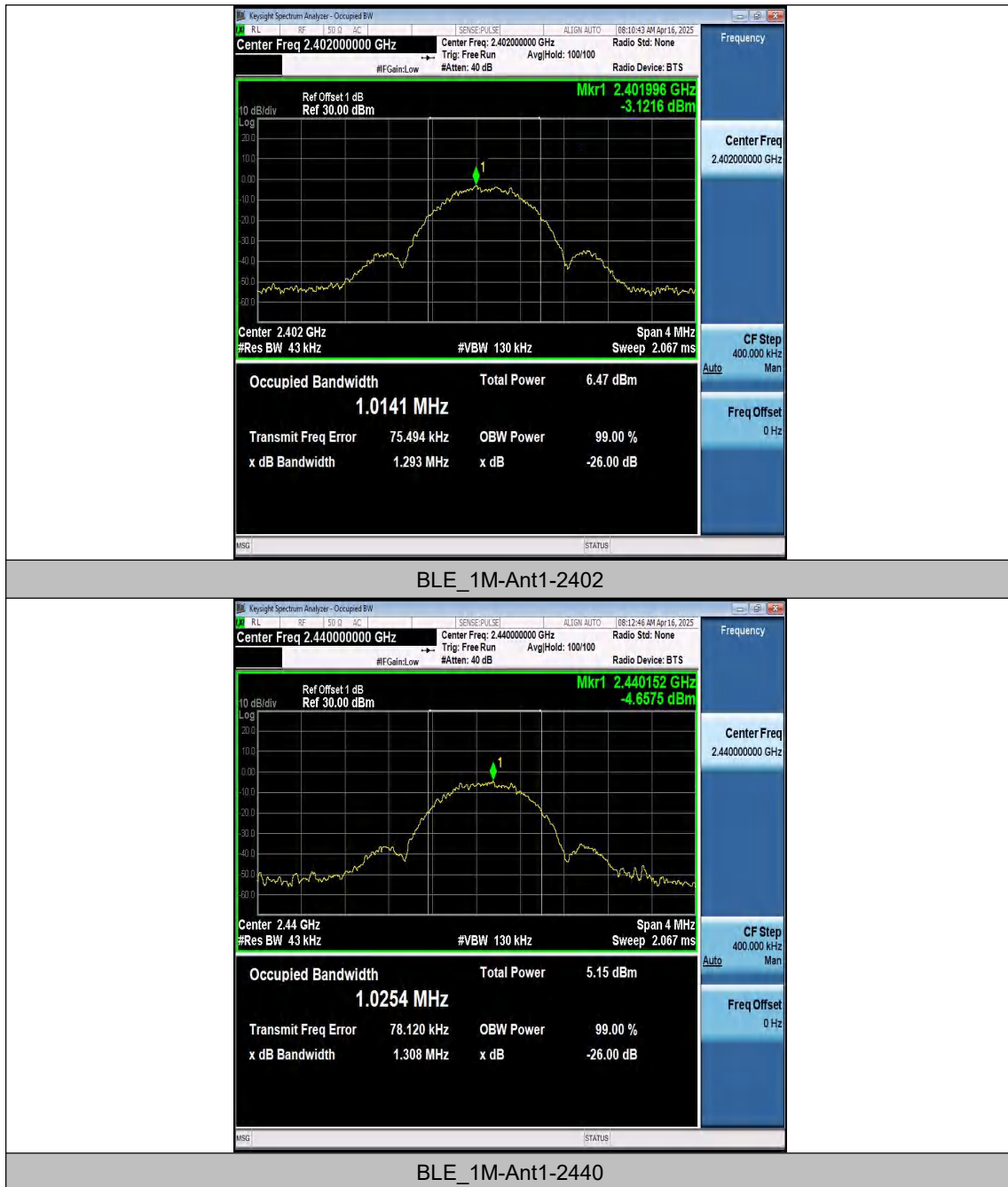
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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0141	2401.5684	2402.5825	---	---
BLE_1M	Ant1	2440	1.0254	2439.5654	2440.5908	---	---
BLE_1M	Ant1	2480	0.99735	2479.5865	2480.5839	---	---
BLE_2M	Ant1	2402	2.0428	2401.0683	2403.1111	---	---
BLE_2M	Ant1	2440	2.0650	2439.0318	2441.0968	---	---
BLE_2M	Ant1	2480	2.0210	2479.0780	2481.0990	---	---

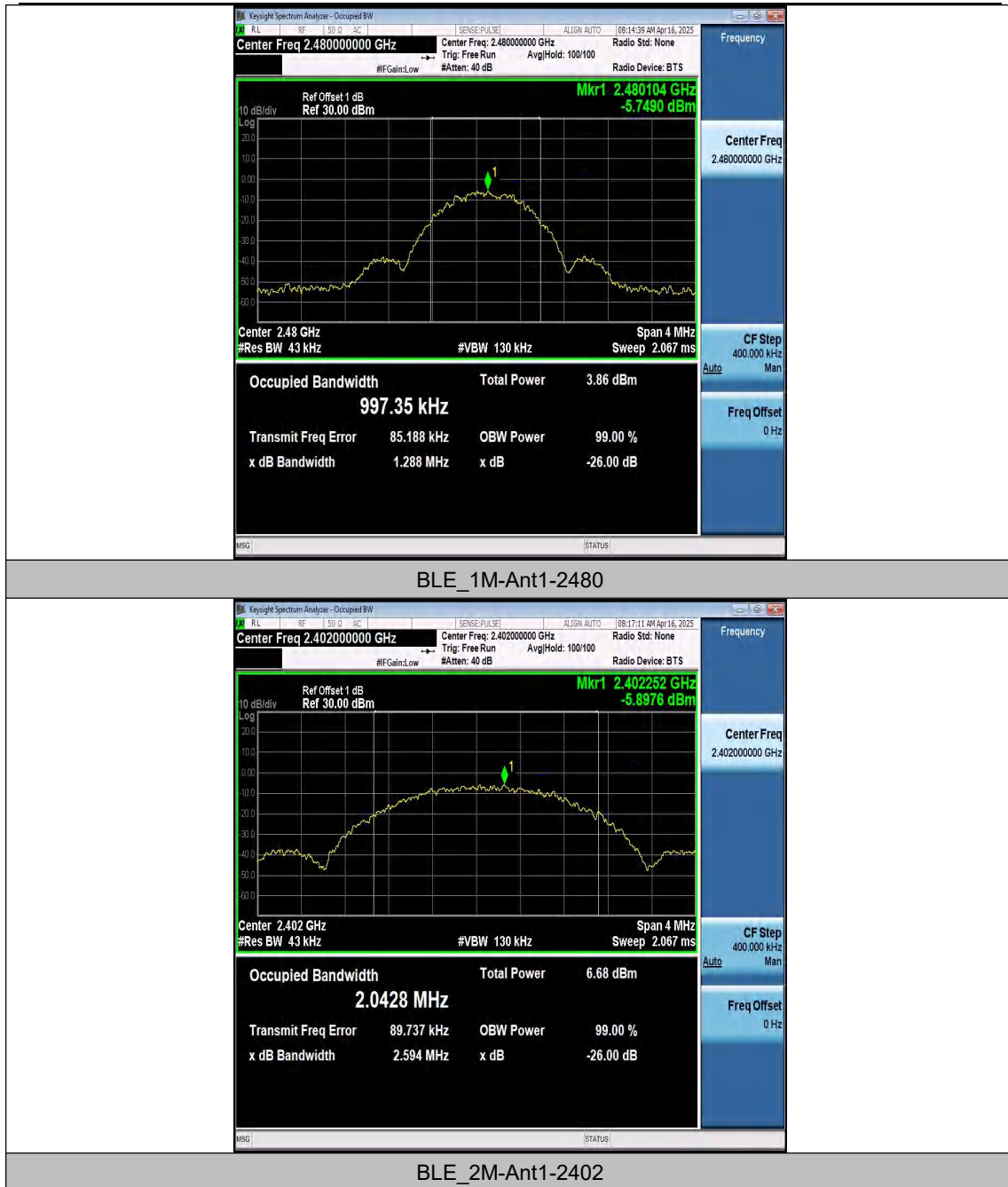
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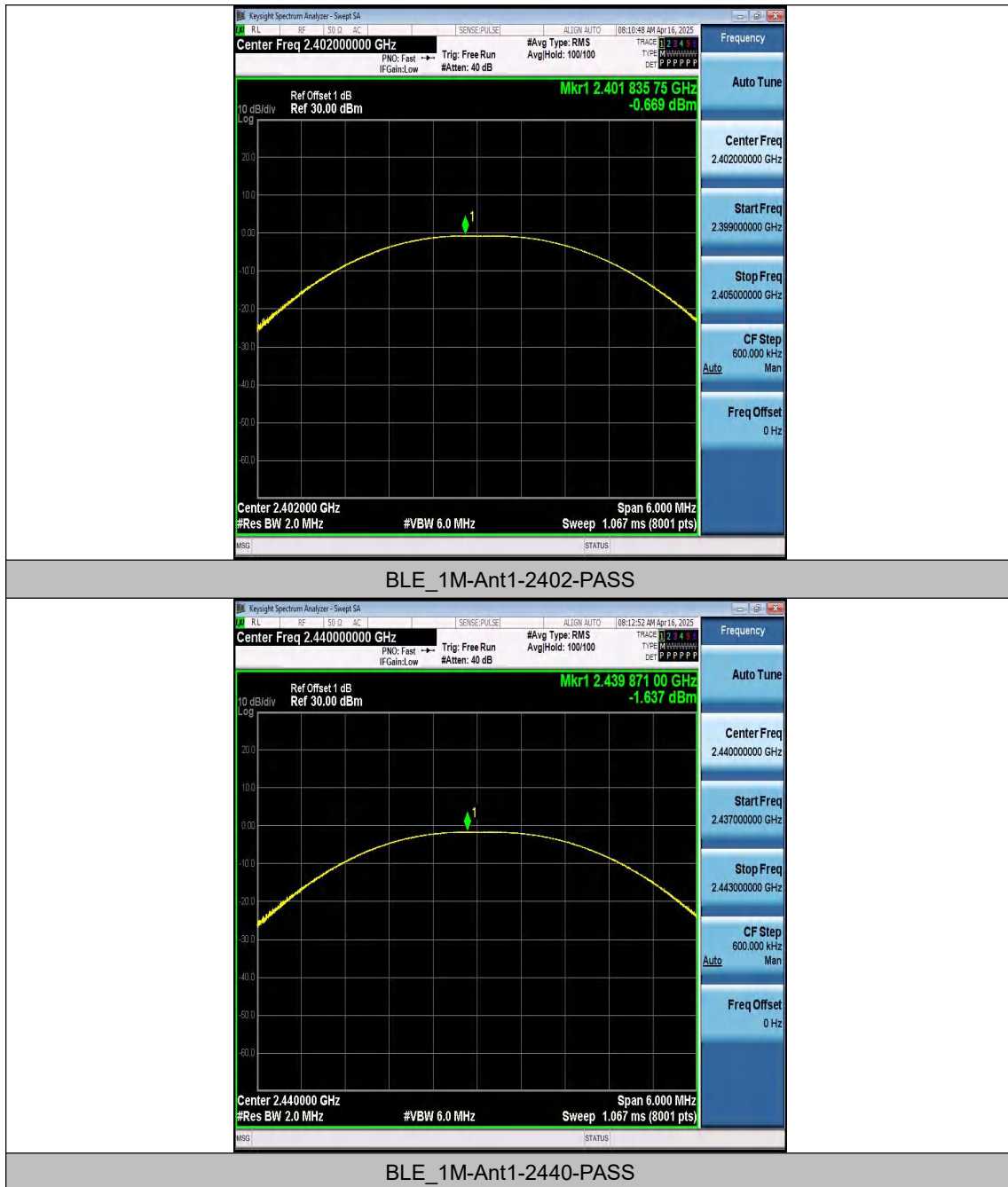
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.67	≤30	PASS
BLE_1M	Ant1	2440	-1.64	≤30	PASS
BLE_1M	Ant1	2480	-3.33	≤30	PASS
BLE_2M	Ant1	2402	-0.68	≤30	PASS
BLE_2M	Ant1	2440	-1.62	≤30	PASS
BLE_2M	Ant1	2480	-3.30	≤30	PASS

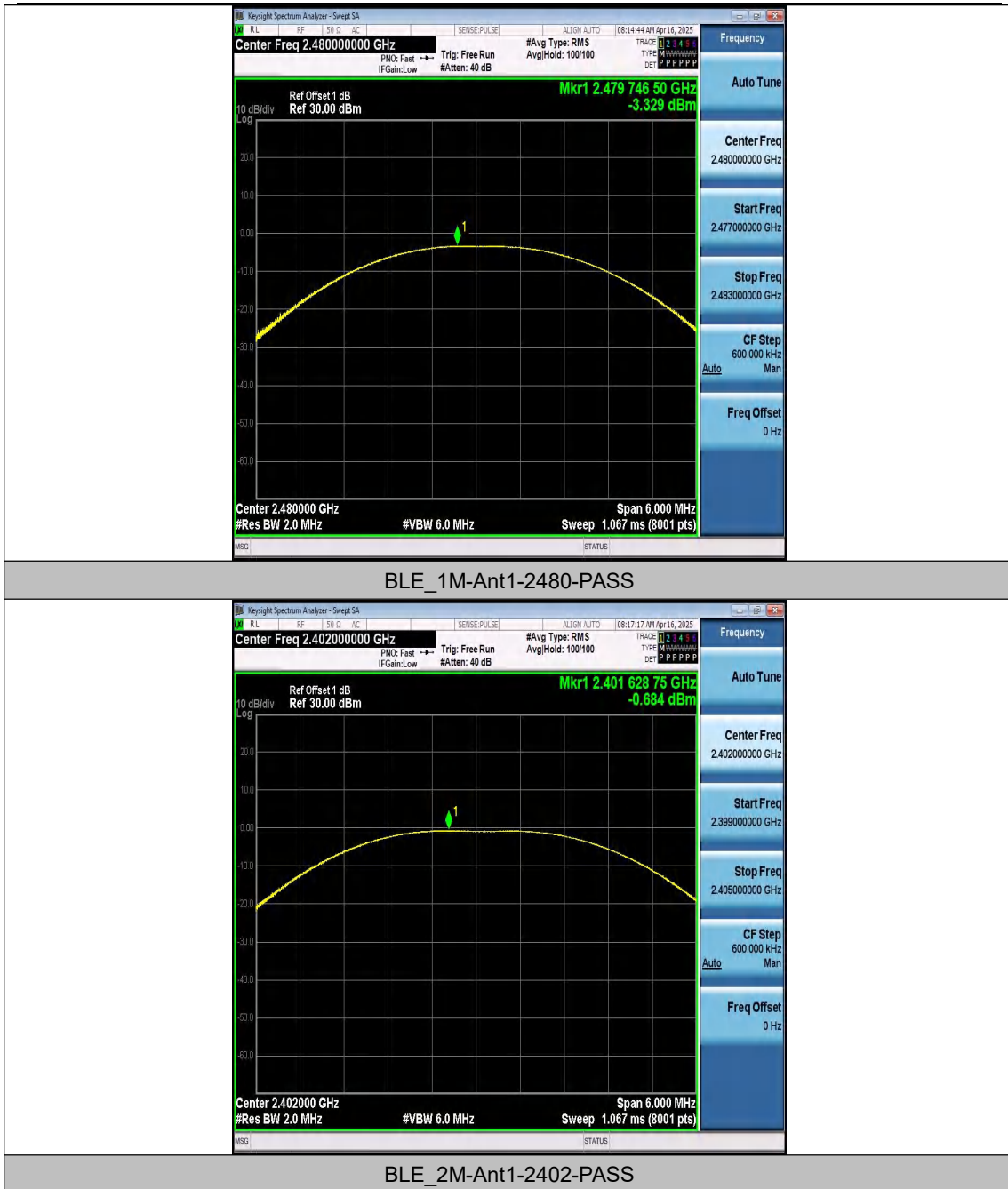
Test Graphs Peak



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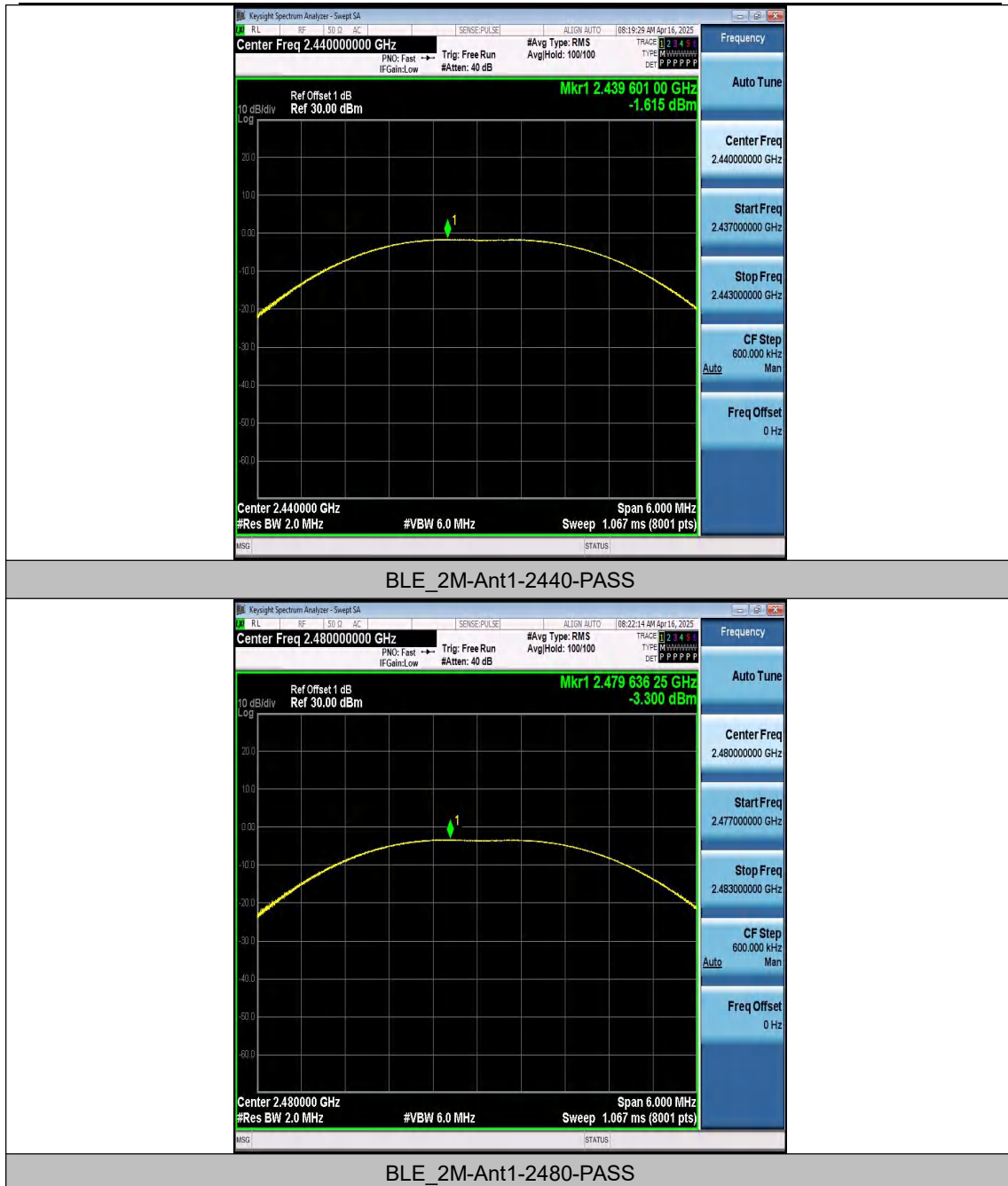
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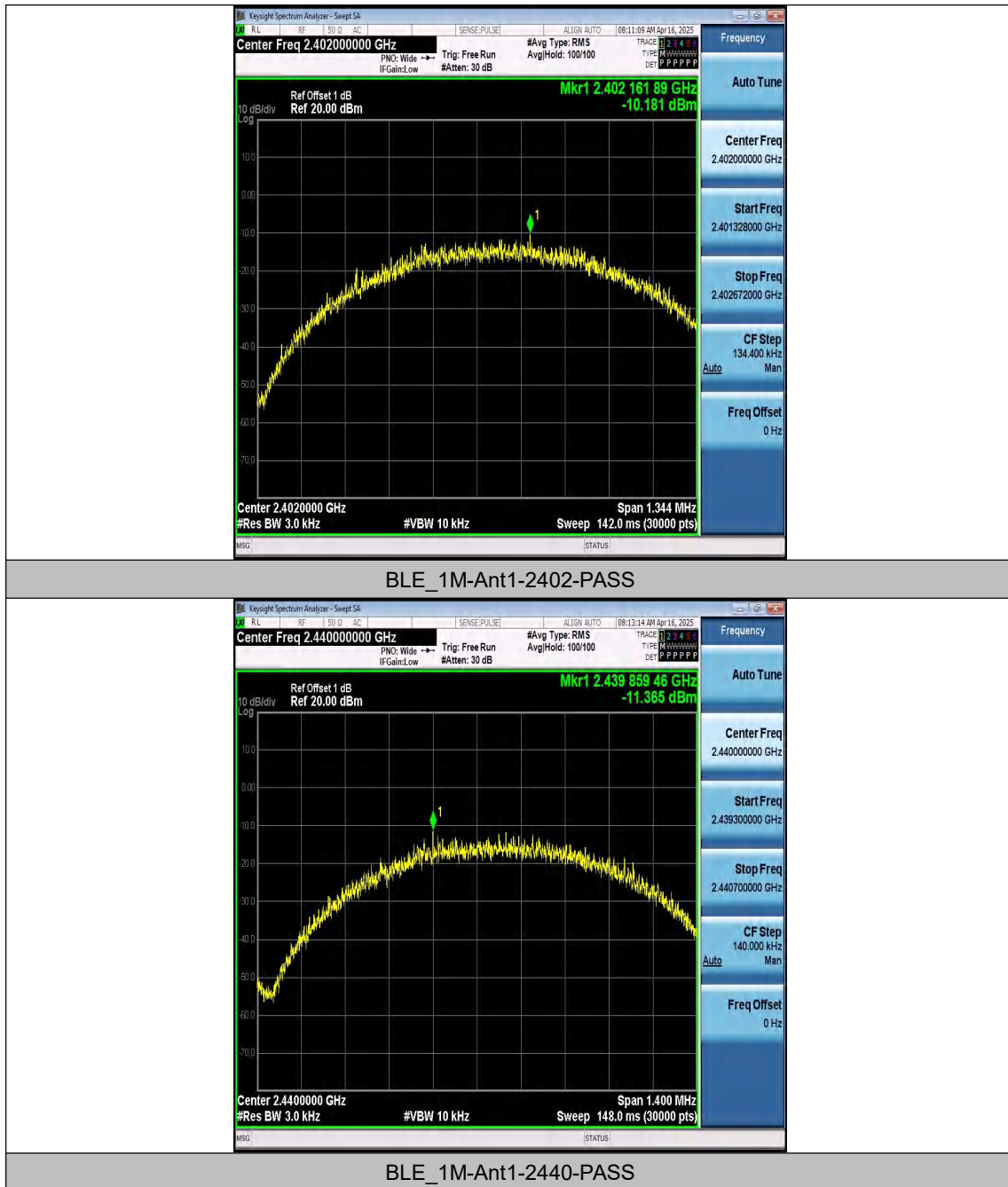
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.18	≤8.00	PASS
BLE_1M	Ant1	2440	-11.37	≤8.00	PASS
BLE_1M	Ant1	2480	-13.71	≤8.00	PASS
BLE_2M	Ant1	2402	-13.05	≤8.00	PASS
BLE_2M	Ant1	2440	-14.60	≤8.00	PASS
BLE_2M	Ant1	2480	-15.94	≤8.00	PASS

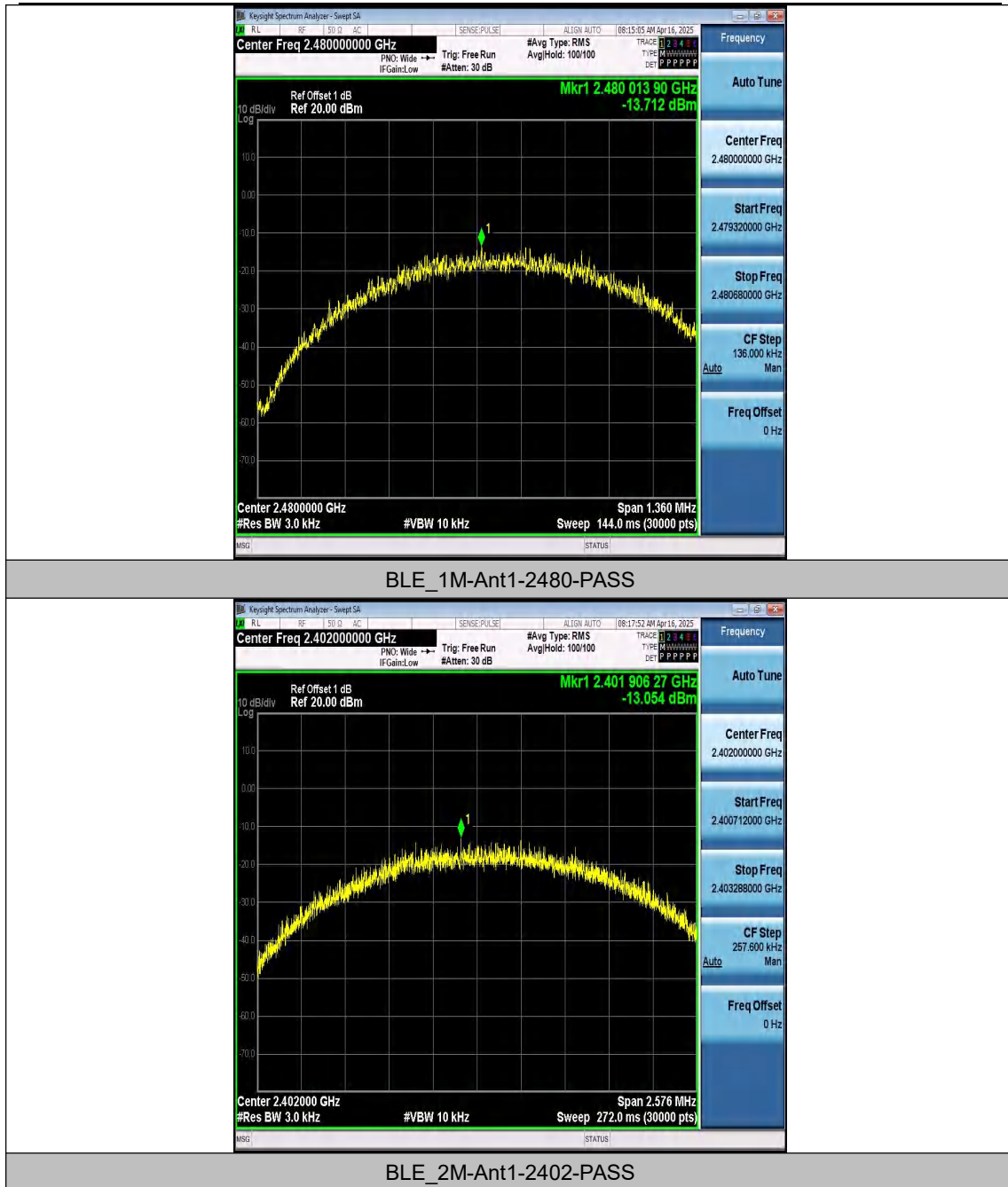
Test Graphs



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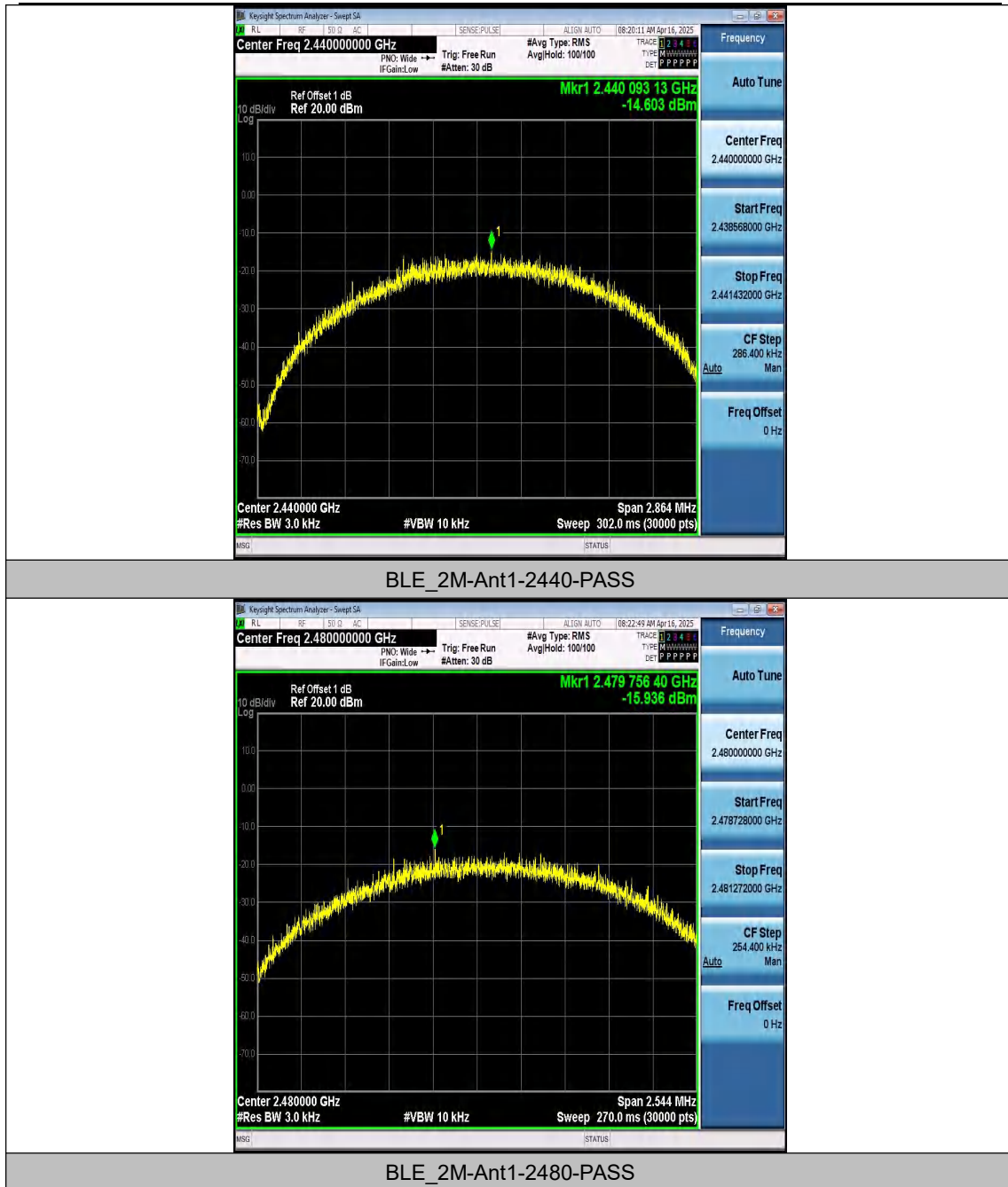
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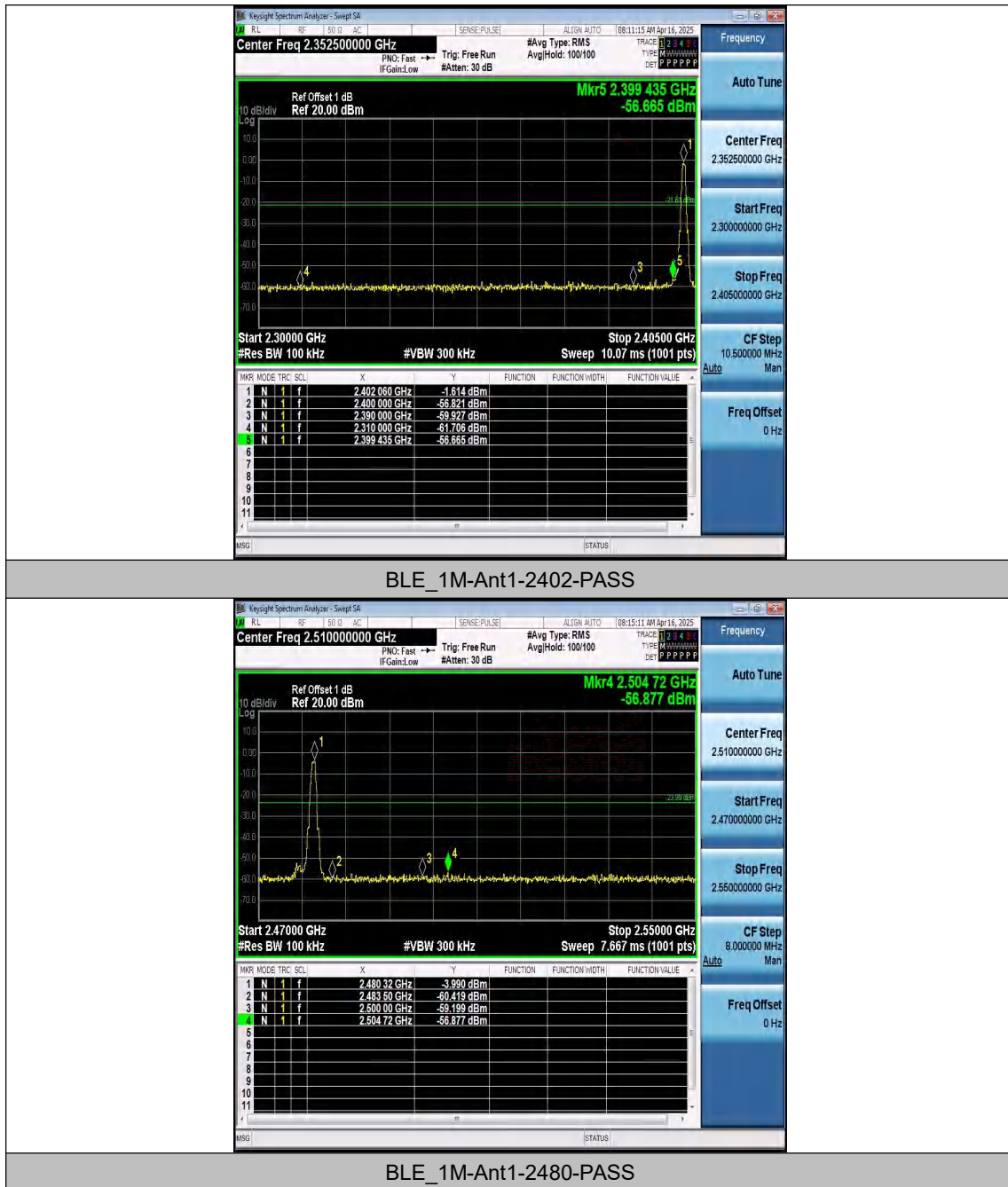
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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.61	-56.67	≤-21.61	PASS
BLE_1M	Ant1	High	2480	-3.99	-56.88	≤-23.99	PASS
BLE_2M	Ant1	Low	2402	-2.95	-38.81	≤-22.95	PASS
BLE_2M	Ant1	High	2480	-5.84	-57.4	≤-25.84	PASS

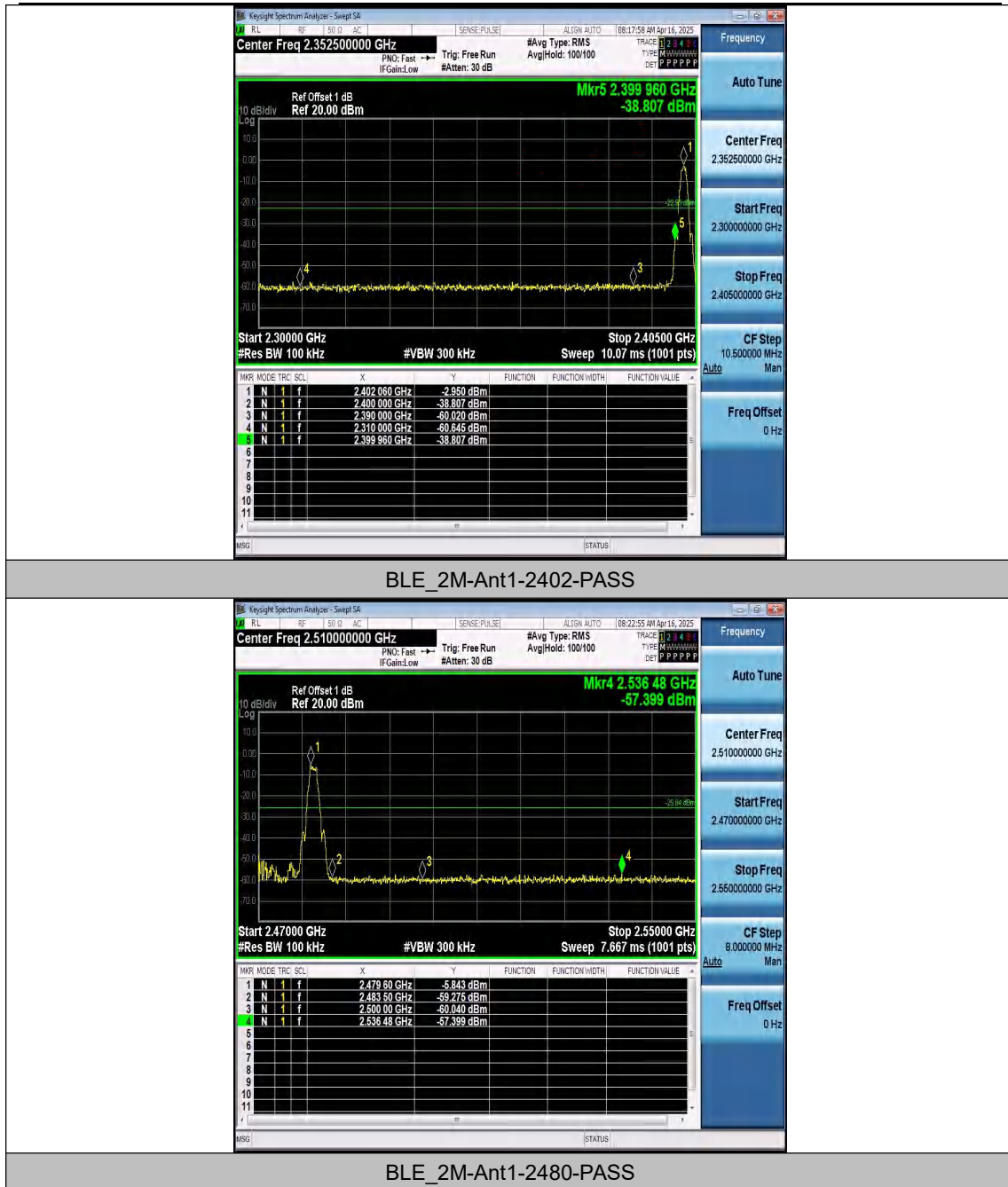
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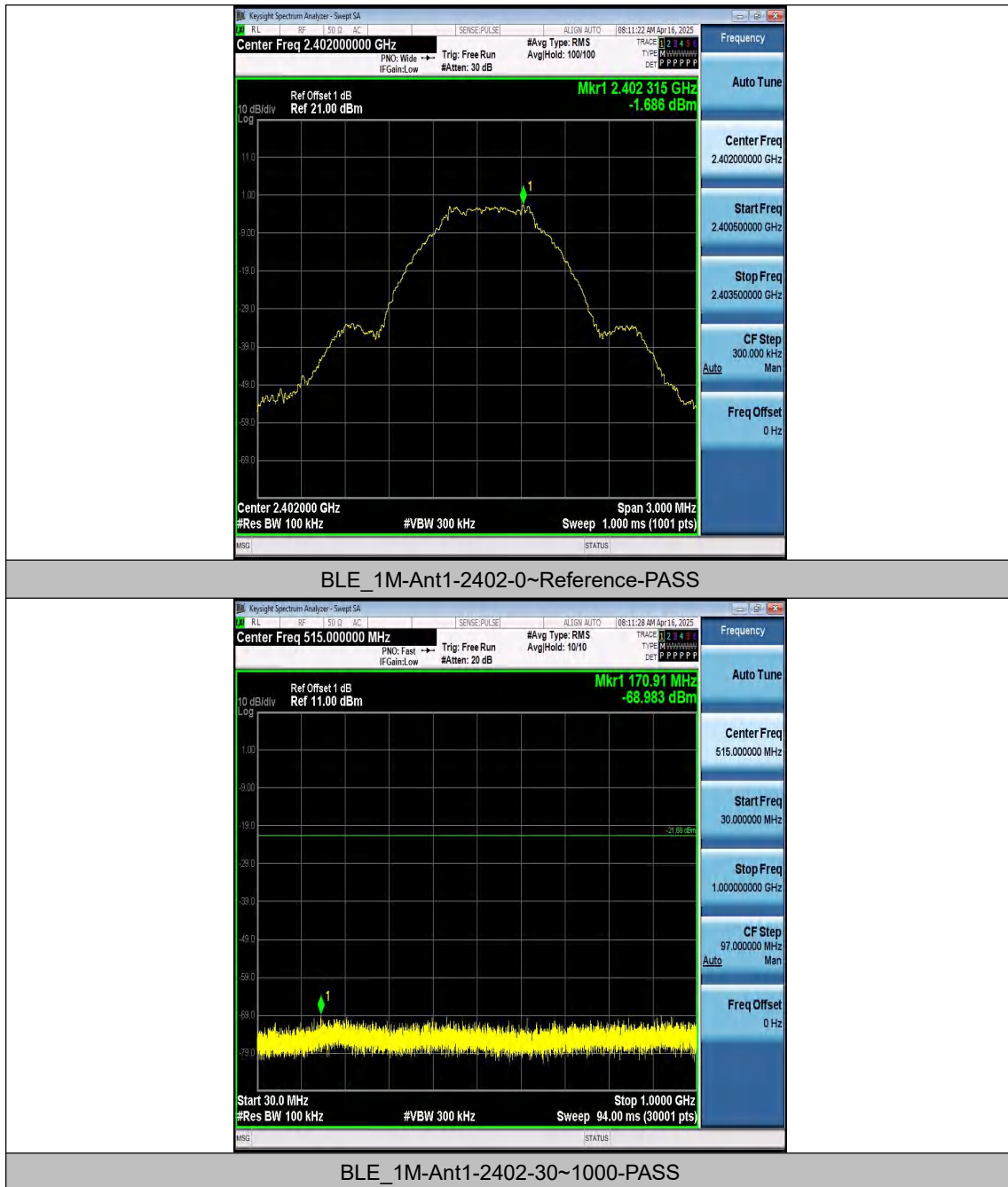


Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-1.69	-1.69	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.69	-68.98	≤-21.69	PASS
BLE_1M	Ant1	2402	1000~26500	-1.69	-52.93	≤-21.69	PASS
BLE_1M	Ant1	2440	0~Reference	-2.90	-2.90	---	PASS
BLE_1M	Ant1	2440	30~1000	-2.90	-68.74	≤-22.9	PASS
BLE_1M	Ant1	2440	1000~26500	-2.90	-47.05	≤-22.9	PASS
BLE_1M	Ant1	2480	0~Reference	-4.46	-4.46	---	PASS
BLE_1M	Ant1	2480	30~1000	-4.46	-67.54	≤-24.46	PASS
BLE_1M	Ant1	2480	1000~26500	-4.46	-46.03	≤-24.46	PASS
BLE_2M	Ant1	2402	0~Reference	-2.88	-2.88	---	PASS
BLE_2M	Ant1	2402	30~1000	-2.88	-68.99	≤-22.88	PASS
BLE_2M	Ant1	2402	1000~26500	-2.88	-53.42	≤-22.88	PASS
BLE_2M	Ant1	2440	0~Reference	-3.99	-3.99	---	PASS
BLE_2M	Ant1	2440	30~1000	-3.99	-68.47	≤-23.99	PASS
BLE_2M	Ant1	2440	1000~26500	-3.99	-53.56	≤-23.99	PASS
BLE_2M	Ant1	2480	0~Reference	-5.20	-5.20	---	PASS
BLE_2M	Ant1	2480	30~1000	-5.20	-52.39	≤-25.2	PASS
BLE_2M	Ant1	2480	1000~26500	-5.20	-27.56	≤-25.2	PASS

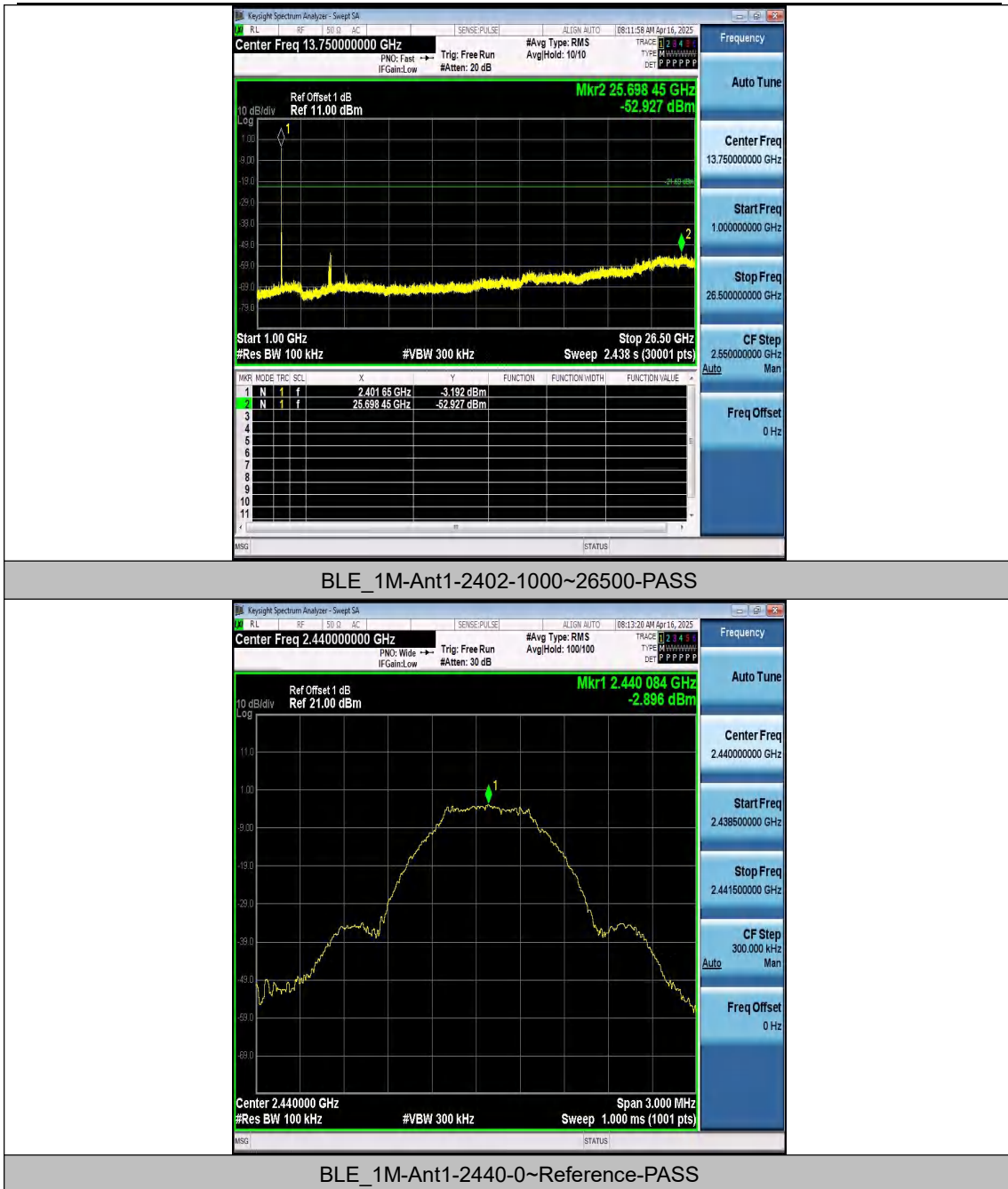
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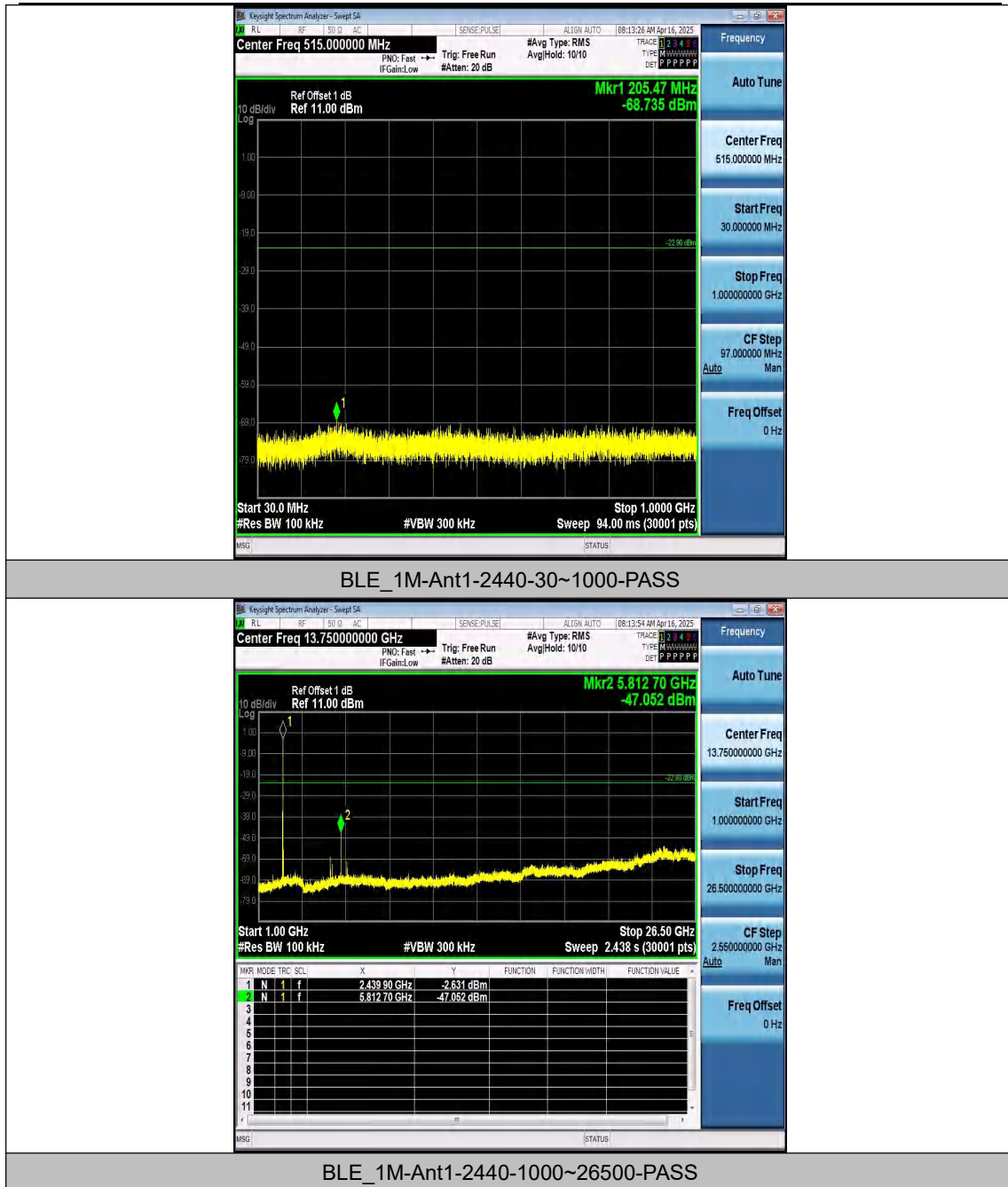
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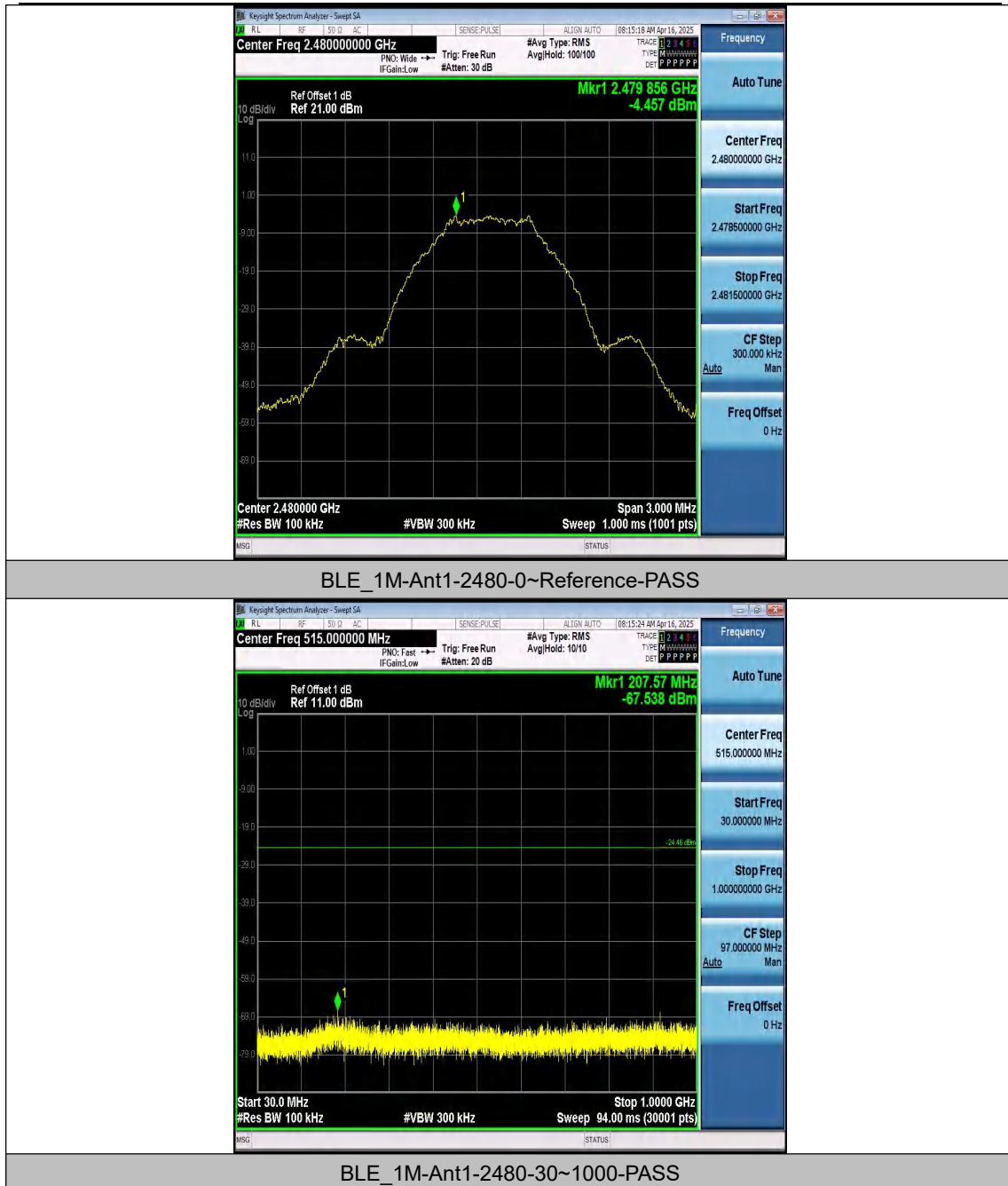
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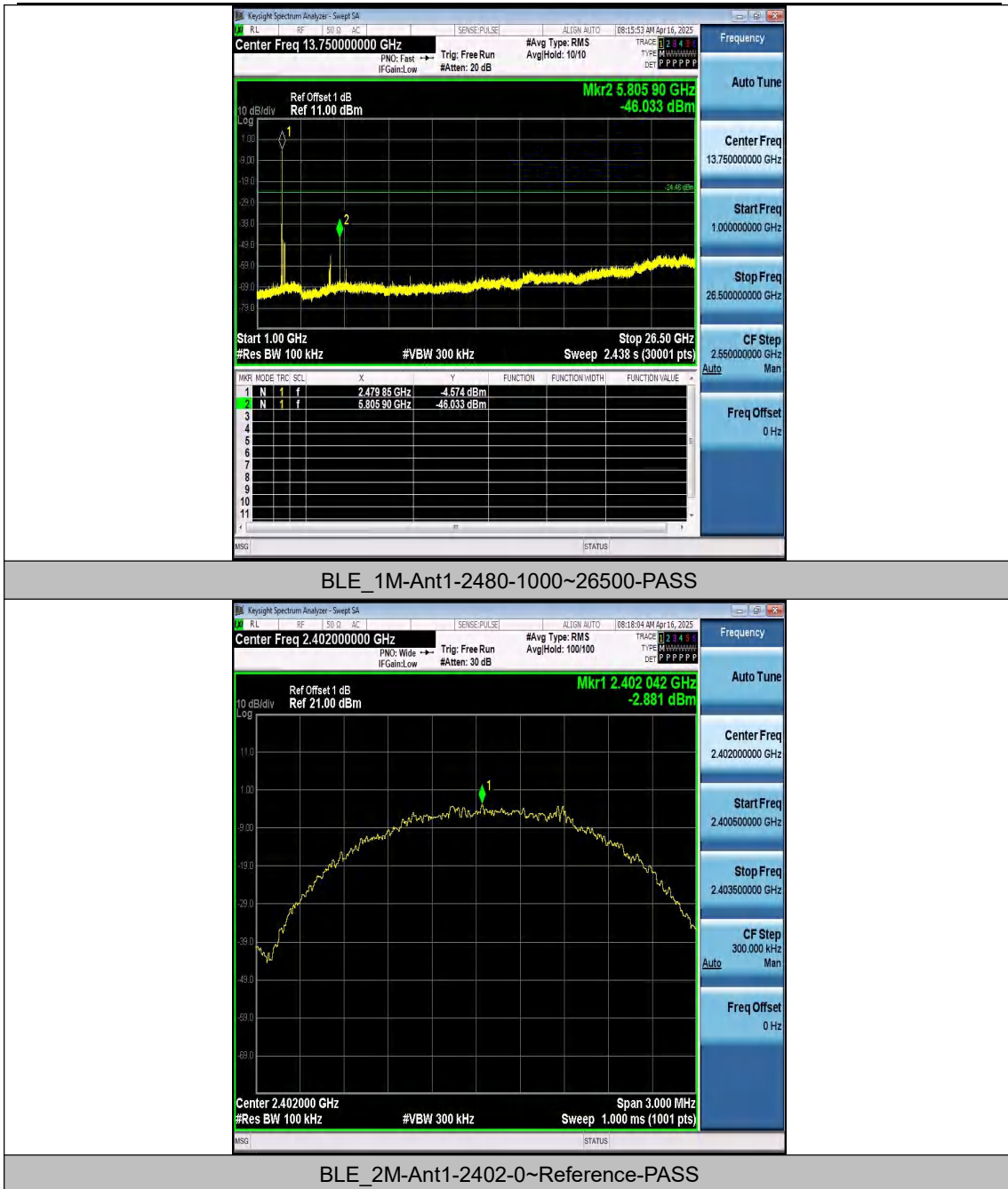
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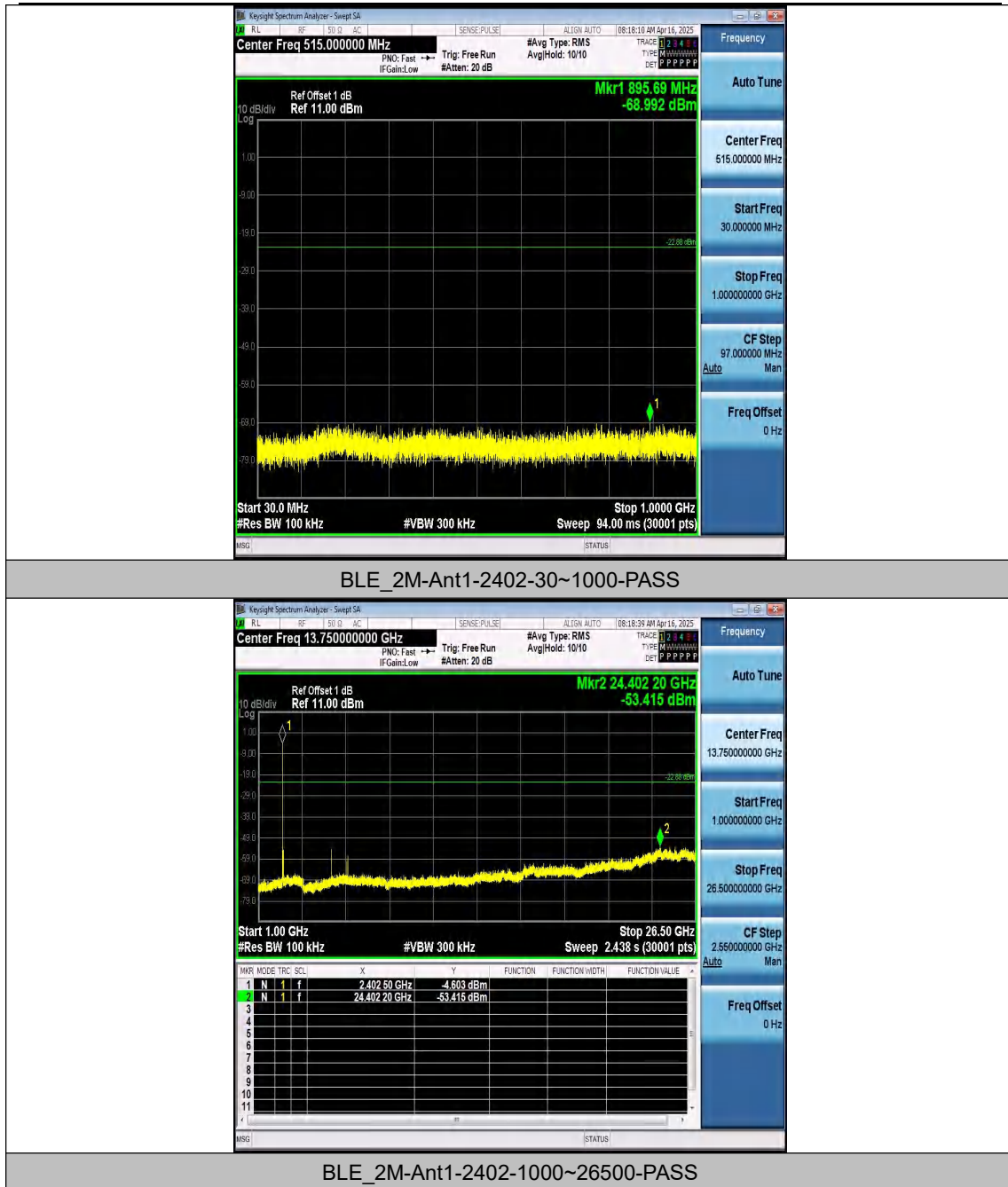
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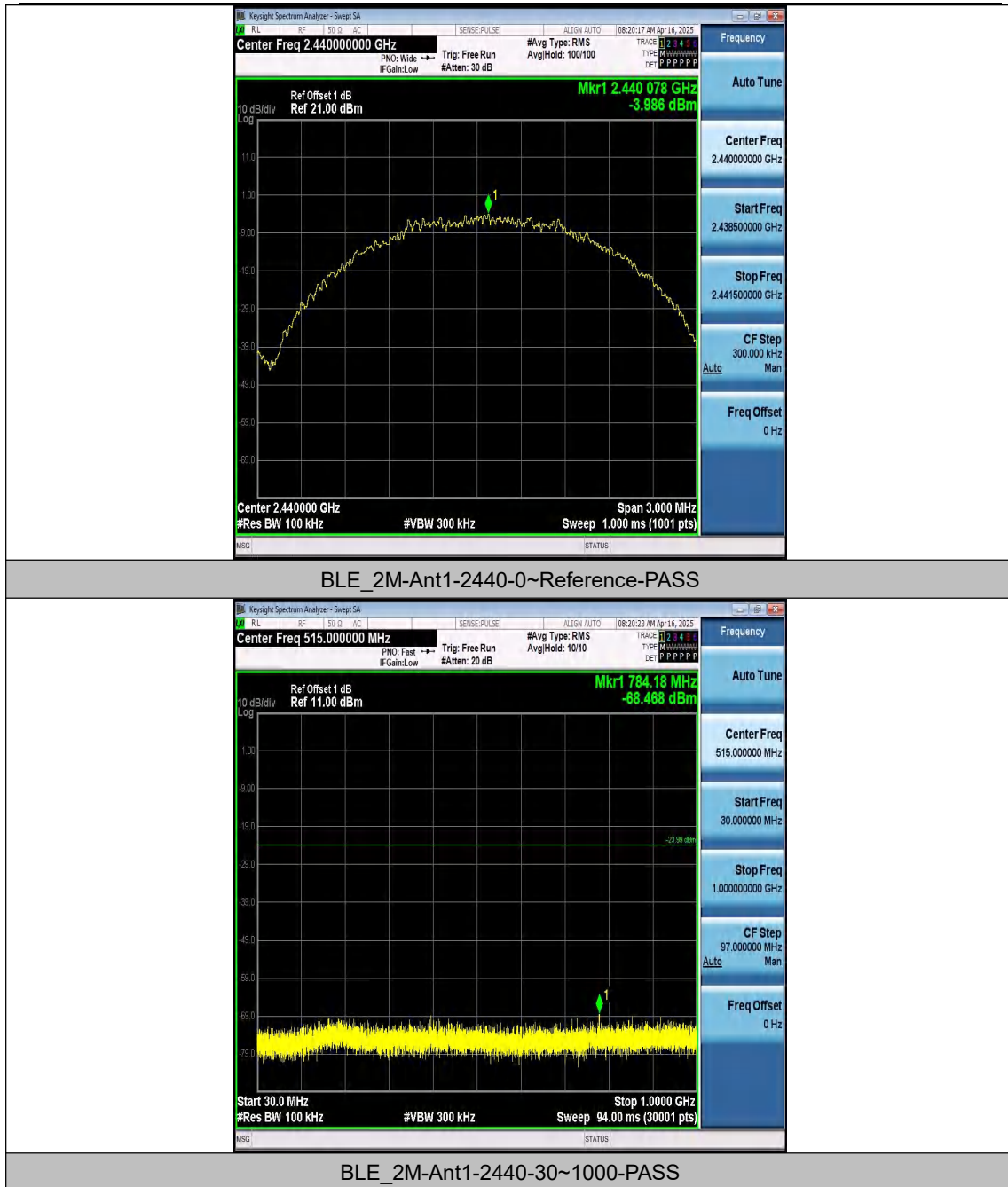
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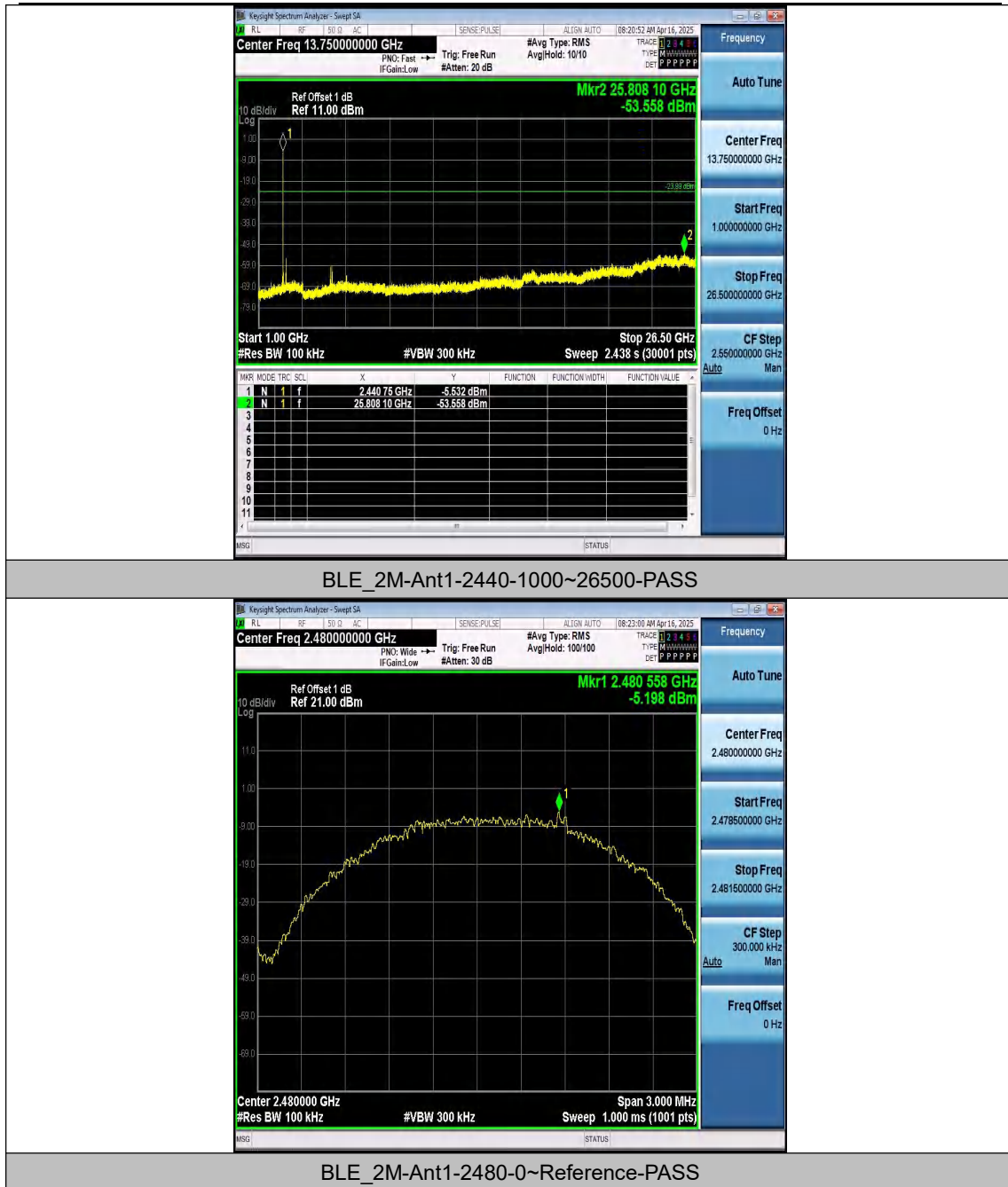
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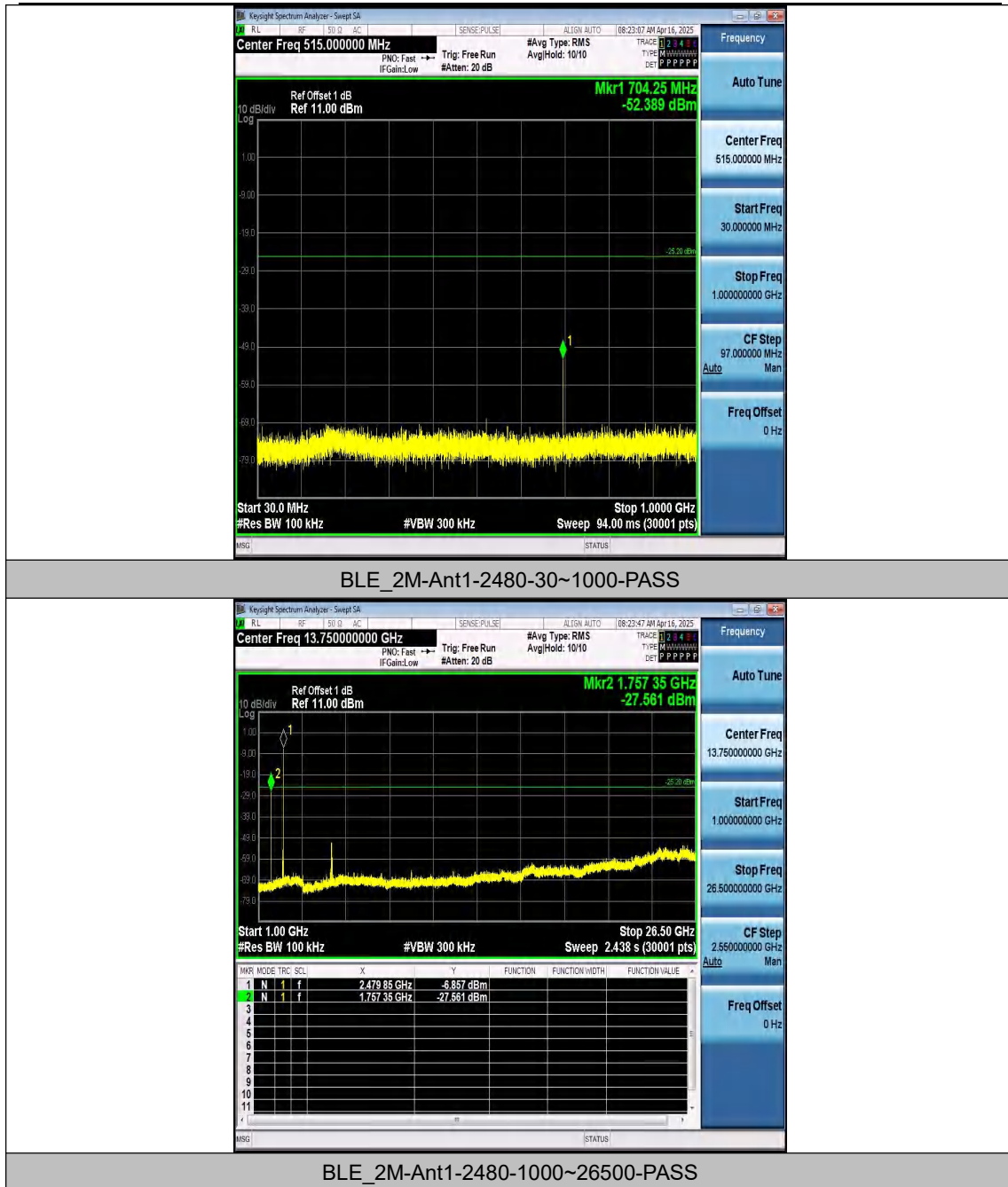
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Appendix G: Duty Cycle

Test Result

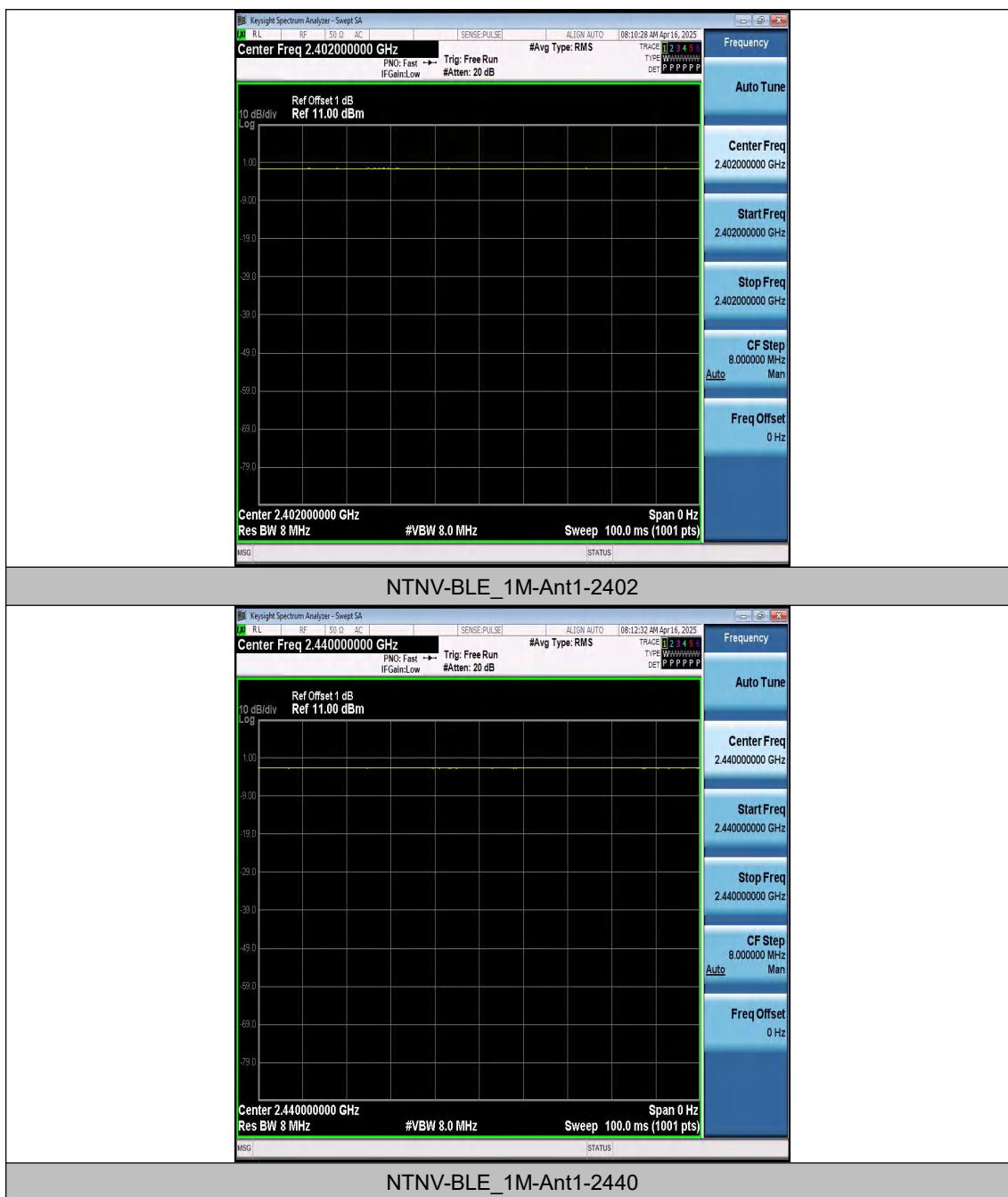
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.00	0.00	100	0.00
BLE_1M	Ant1	2440	0.00	0.00	100	0.00
BLE_1M	Ant1	2480	0.00	0.00	100	0.00
BLE_2M	Ant1	2402	0.00	0.00	100	0.00
BLE_2M	Ant1	2440	0.00	0.00	100	0.00
BLE_2M	Ant1	2480	0.00	0.00	100	0.00

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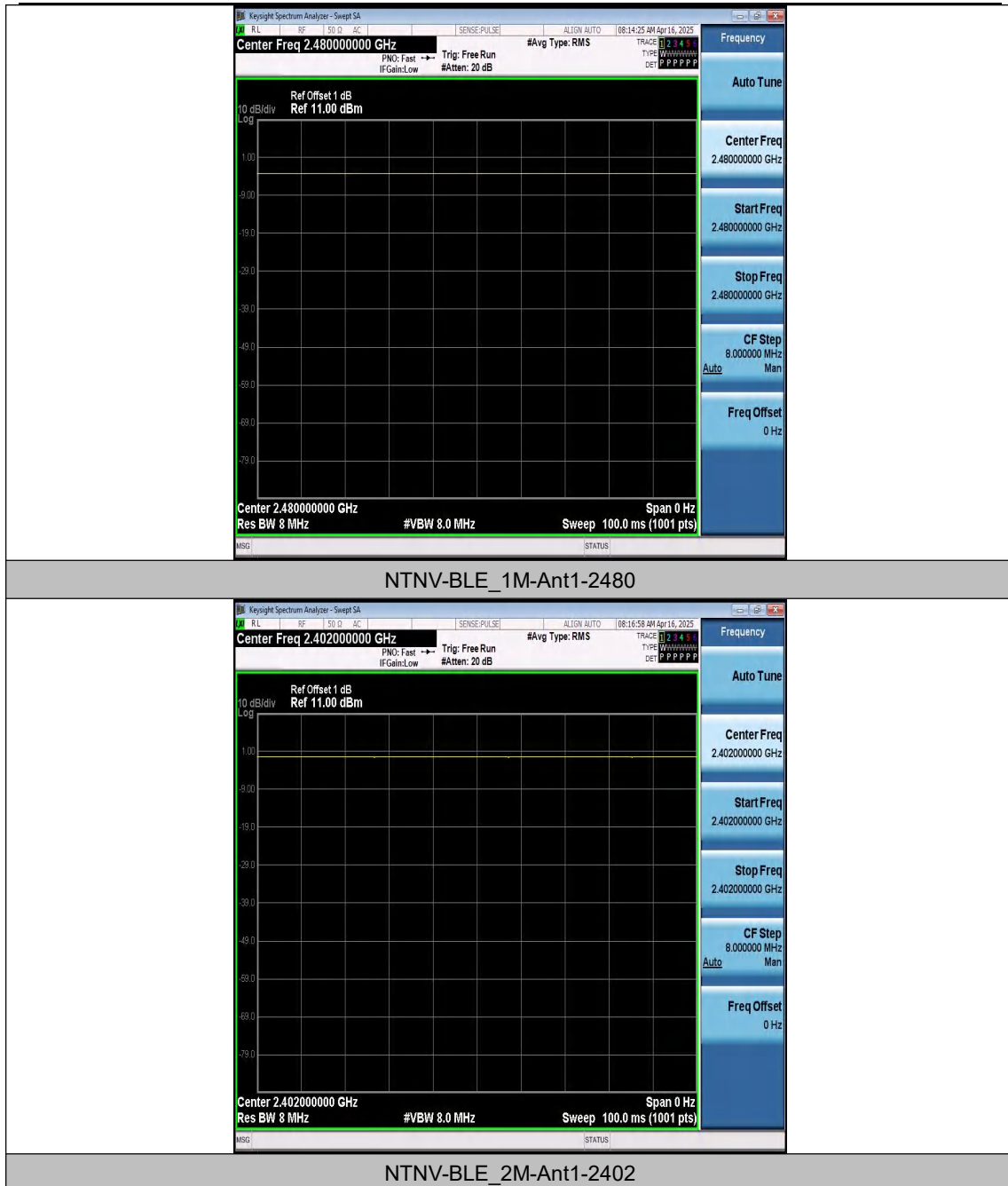
Test Graphs



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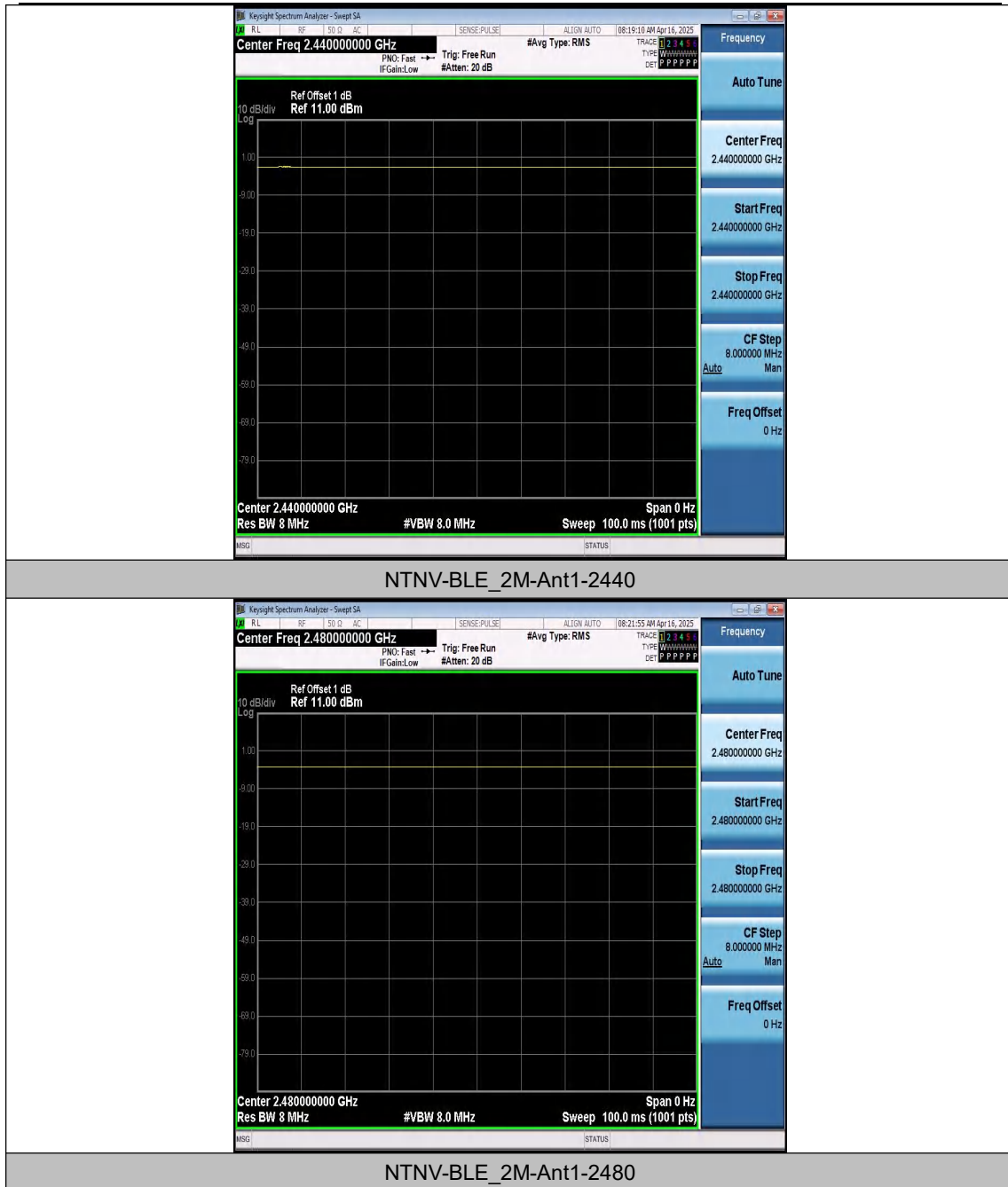
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