

Appendix Test Data

Report No.:	1812C50123112501	Test Sample No.:	1-2-2
Start Test Date:	2025-04-15	Finish Test Date:	2025-04-21
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26.2°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	0.664	2401.672	2402.336	0.5	PASS
BLE_1M	Ant1	2440	0.660	2439.676	2440.336	0.5	PASS
BLE_1M	Ant1	2480	0.688	2479.664	2480.352	0.5	PASS

Test Graphs



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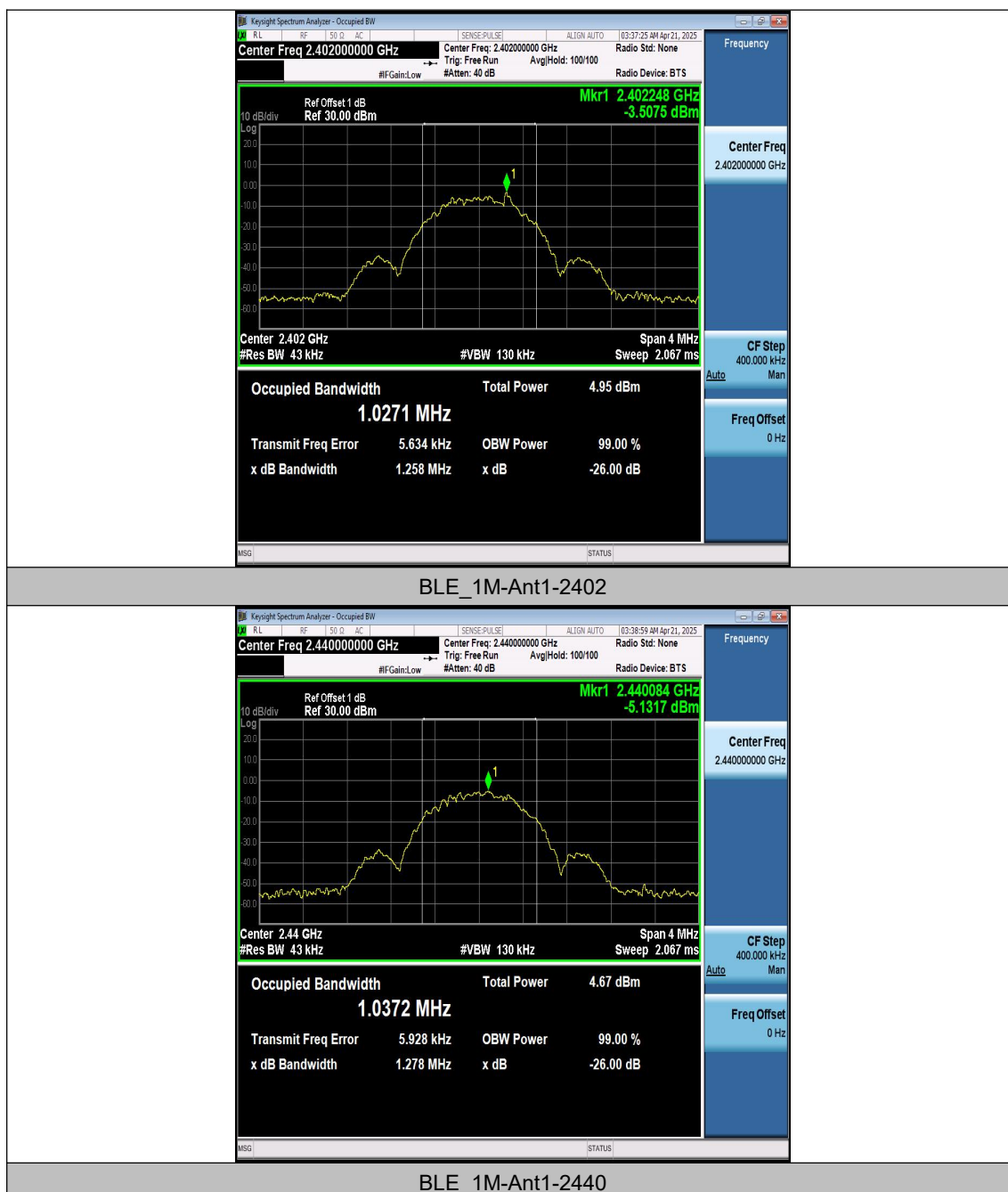
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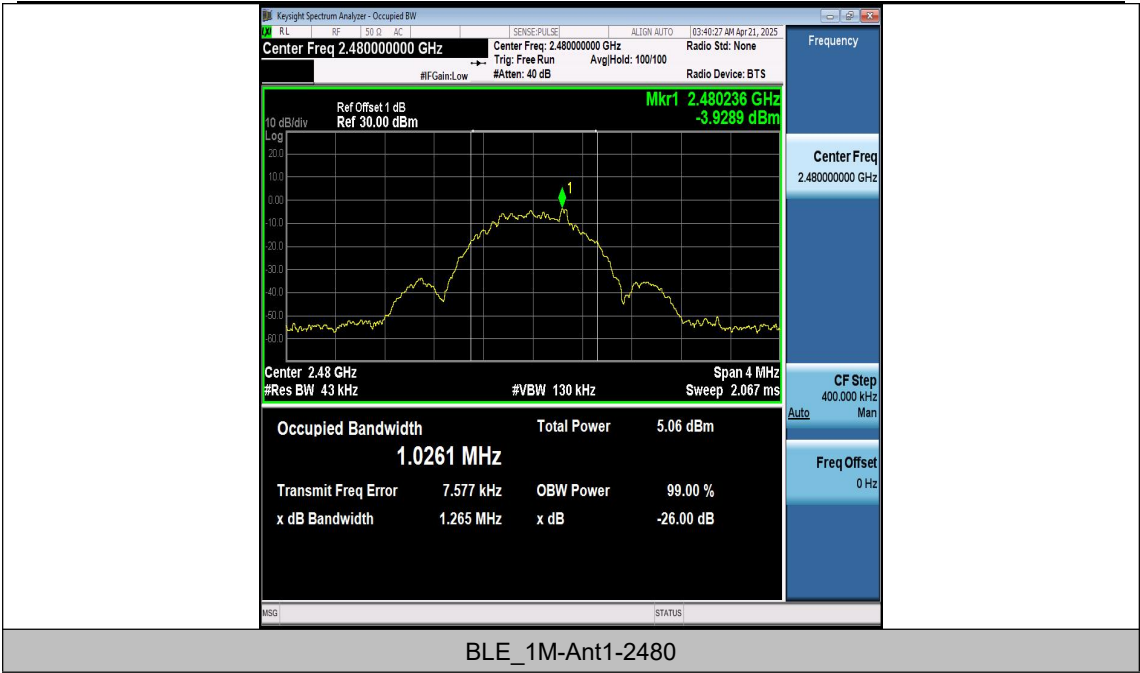
Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0271	2401.4921	2402.5192	---	---
BLE_1M	Ant1	2440	1.0372	2439.4873	2440.5245	---	---
BLE_1M	Ant1	2480	1.0261	2479.4945	2480.5206	---	---

Test Graphs





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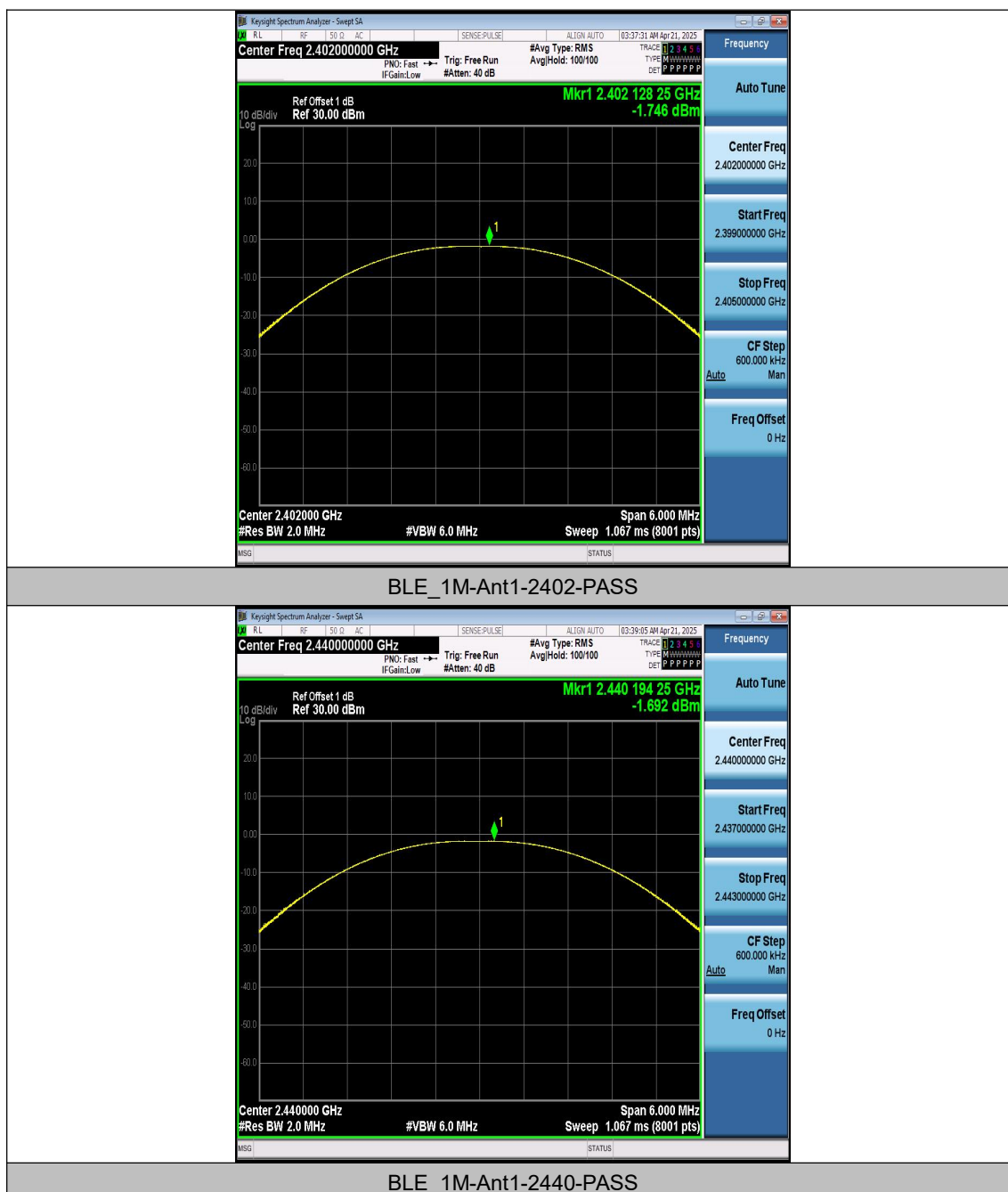
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Appendix C: Maximum conducted output power

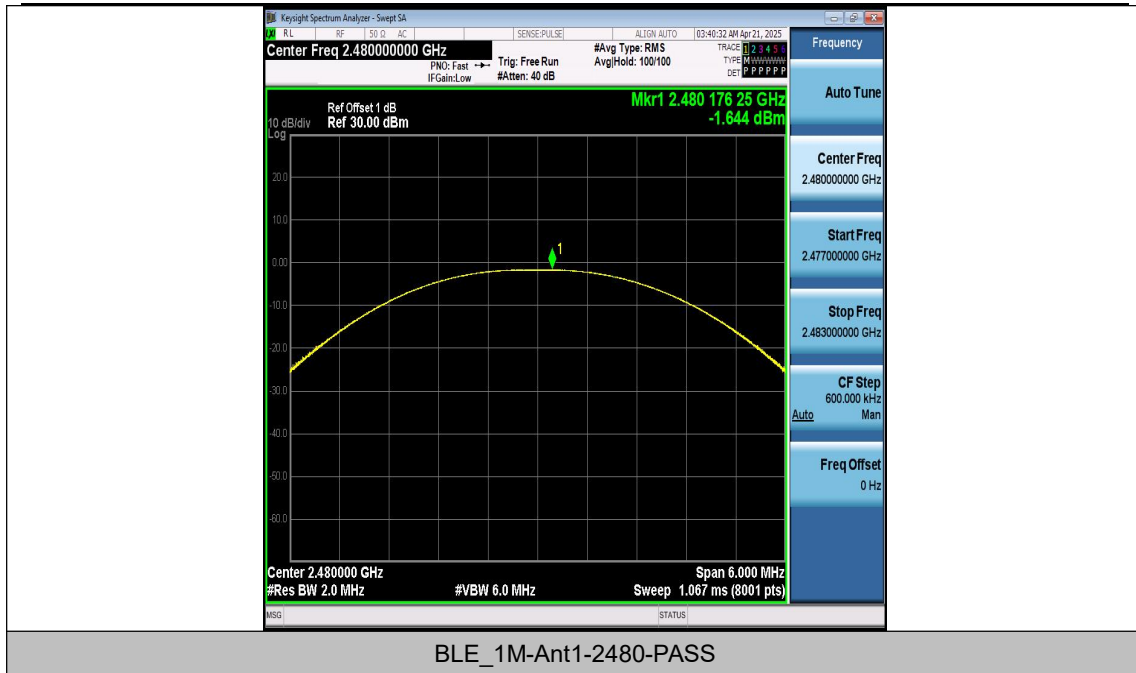
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.75	≤30	PASS
BLE_1M	Ant1	2440	-1.69	≤30	PASS
BLE_1M	Ant1	2480	-1.64	≤30	PASS

Test Graphs Peak



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Appendix D: Maximum power spectral density

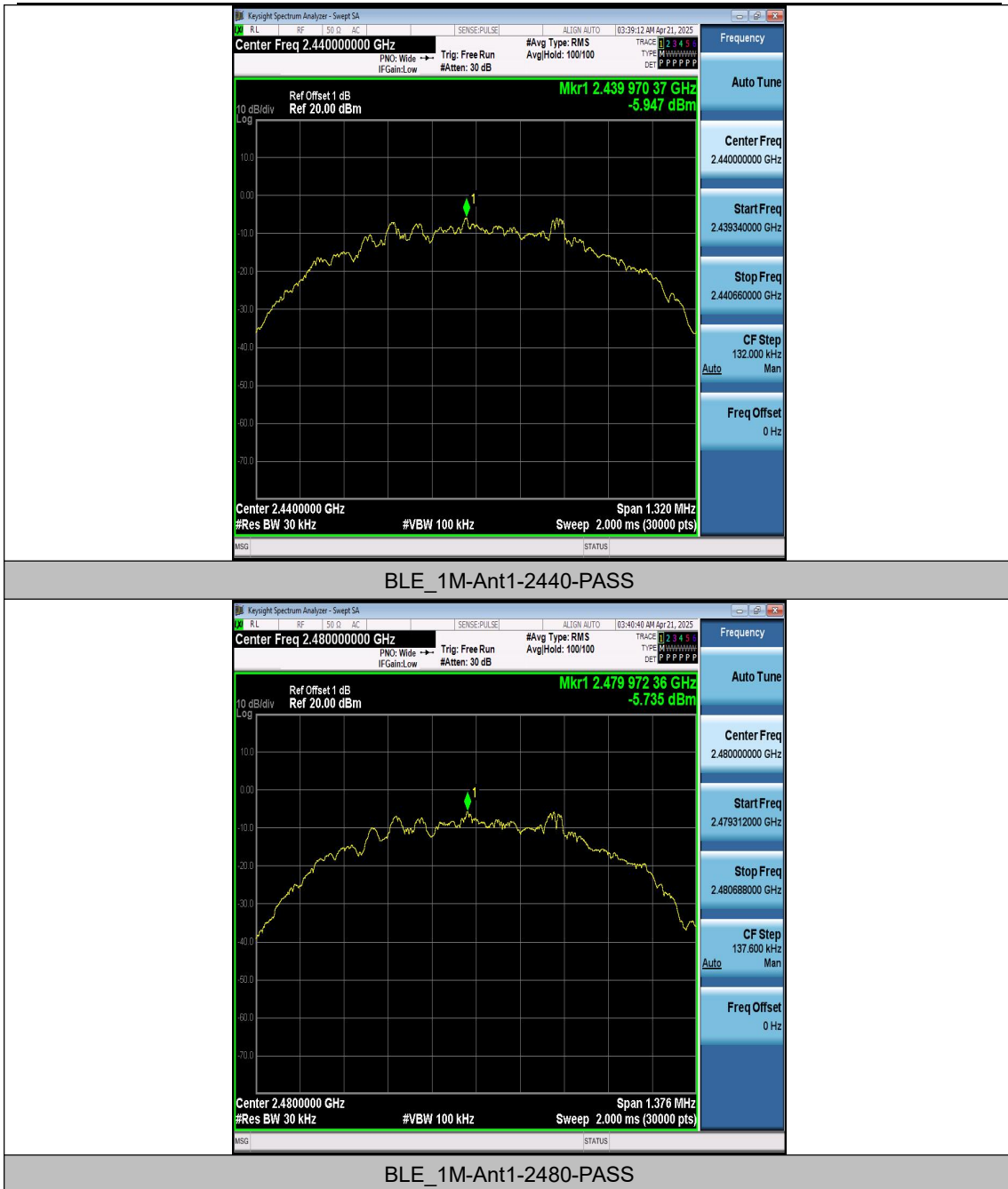
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.02	≤8.00	PASS
BLE_1M	Ant1	2440	-15.95	≤8.00	PASS
BLE_1M	Ant1	2480	-15.74	≤8.00	PASS

Note: $\text{PSD}(\text{dBm}/3\text{kHz}) = \text{PSD}(\text{dBm}/30\text{kHz}) - (10 \cdot \log(30/3))$.

Test Graphs





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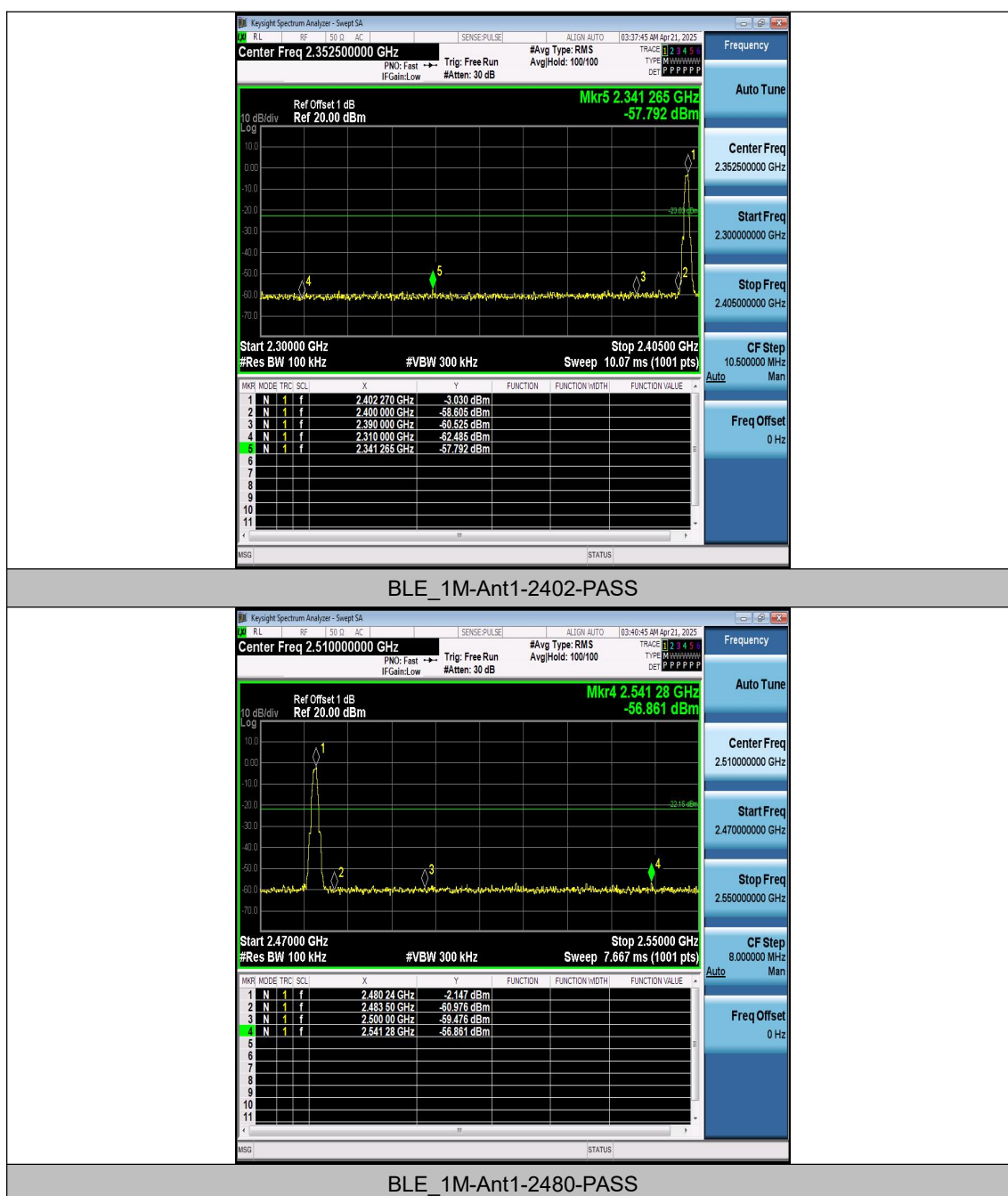
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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.03	-57.79	≤-23.03	PASS
BLE_1M	Ant1	High	2480	-2.15	-56.86	≤-22.15	PASS

Test Graphs



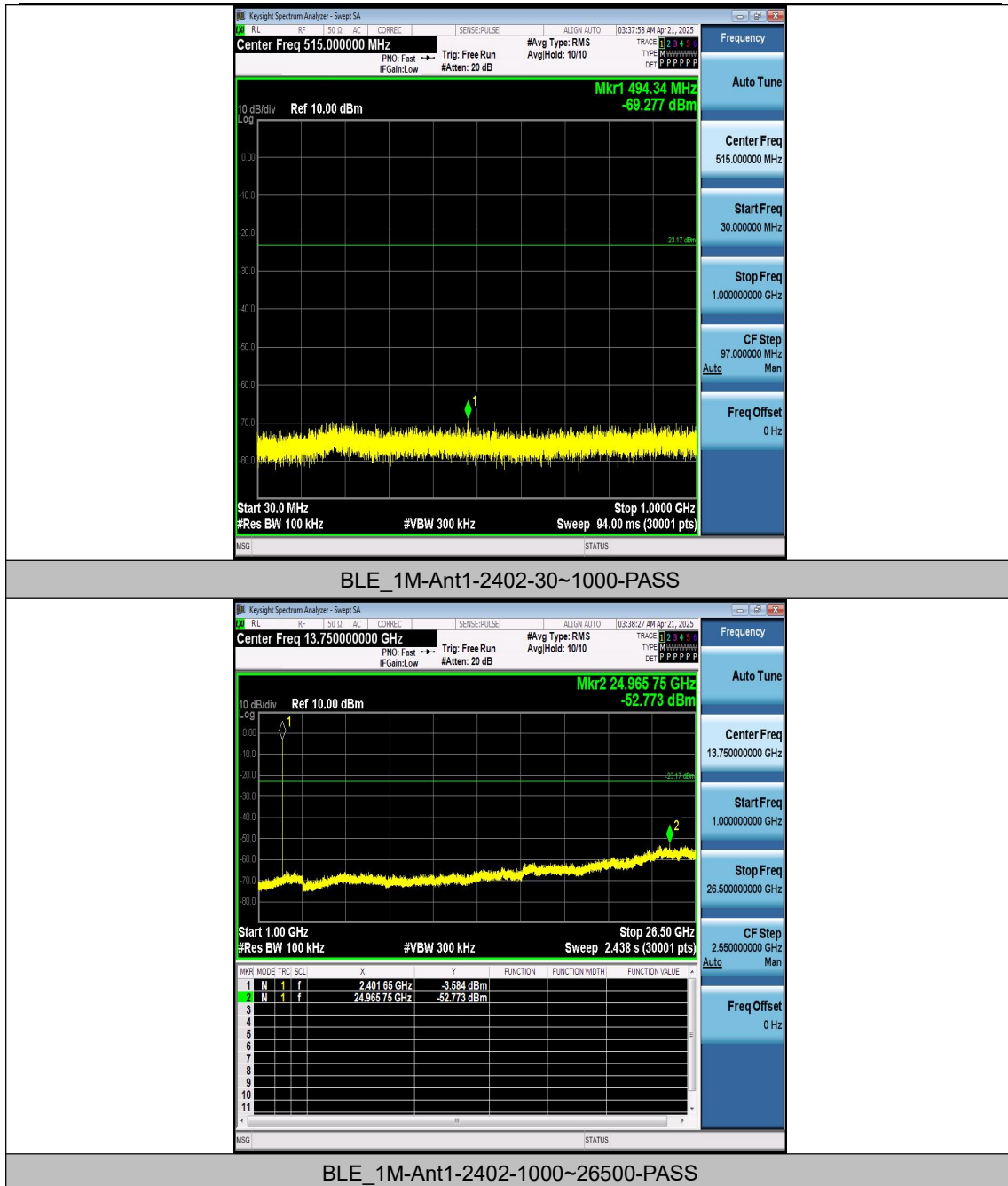
Appendix F: Conducted Spurious Emission

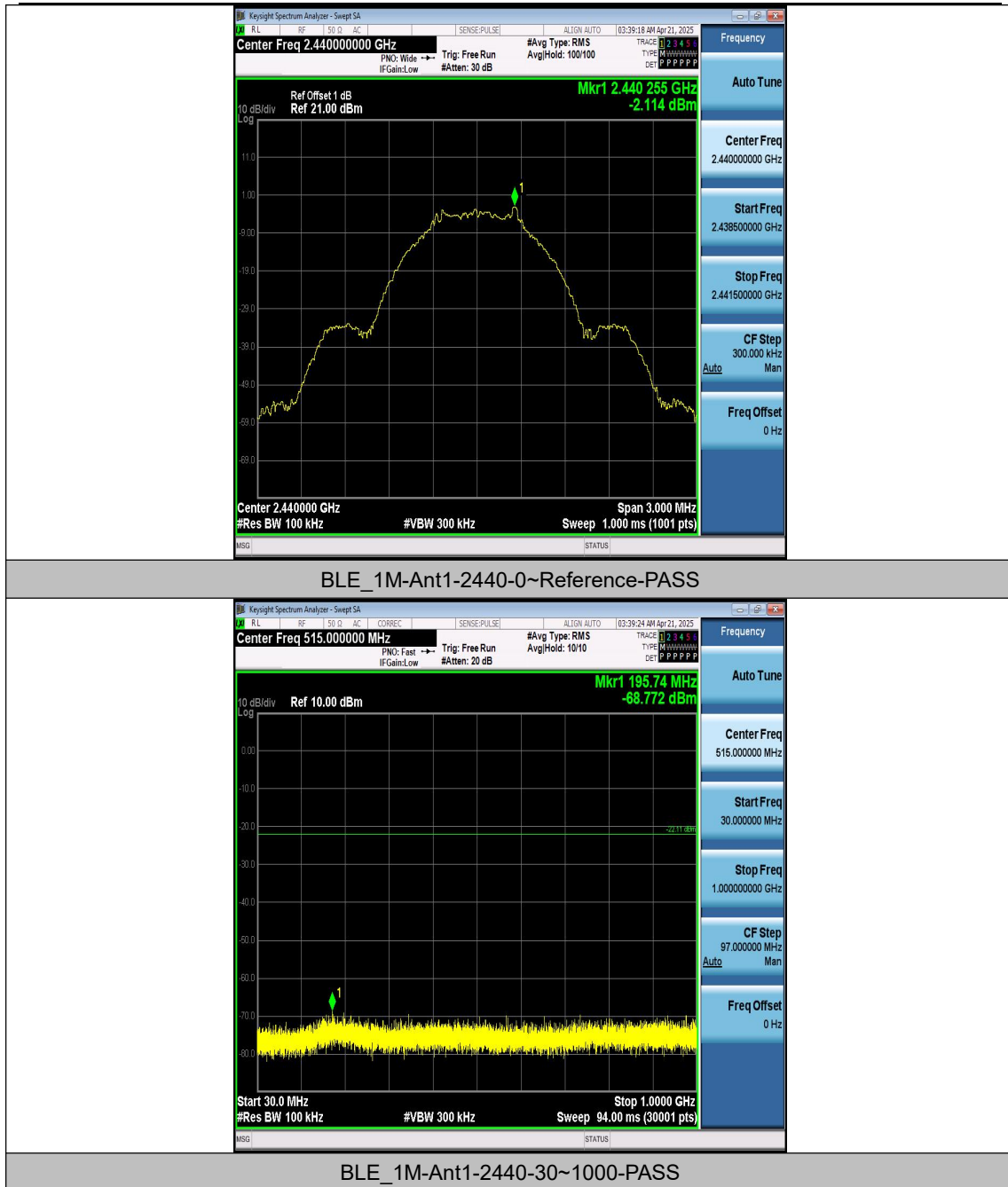
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-3.17	-3.17	---	PASS
BLE_1M	Ant1	2402	30~1000	-3.17	-69.28	≤-23.17	PASS
BLE_1M	Ant1	2402	1000~26500	-3.17	-52.77	≤-23.17	PASS
BLE_1M	Ant1	2440	0~Reference	-2.11	-2.11	---	PASS
BLE_1M	Ant1	2440	30~1000	-2.11	-68.77	≤-22.11	PASS
BLE_1M	Ant1	2440	1000~26500	-2.11	-52.91	≤-22.11	PASS
BLE_1M	Ant1	2480	0~Reference	-2.01	-2.01	---	PASS
BLE_1M	Ant1	2480	30~1000	-2.01	-69.19	≤-22.01	PASS
BLE_1M	Ant1	2480	1000~26500	-2.01	-53.2	≤-22.01	PASS

Test Graphs







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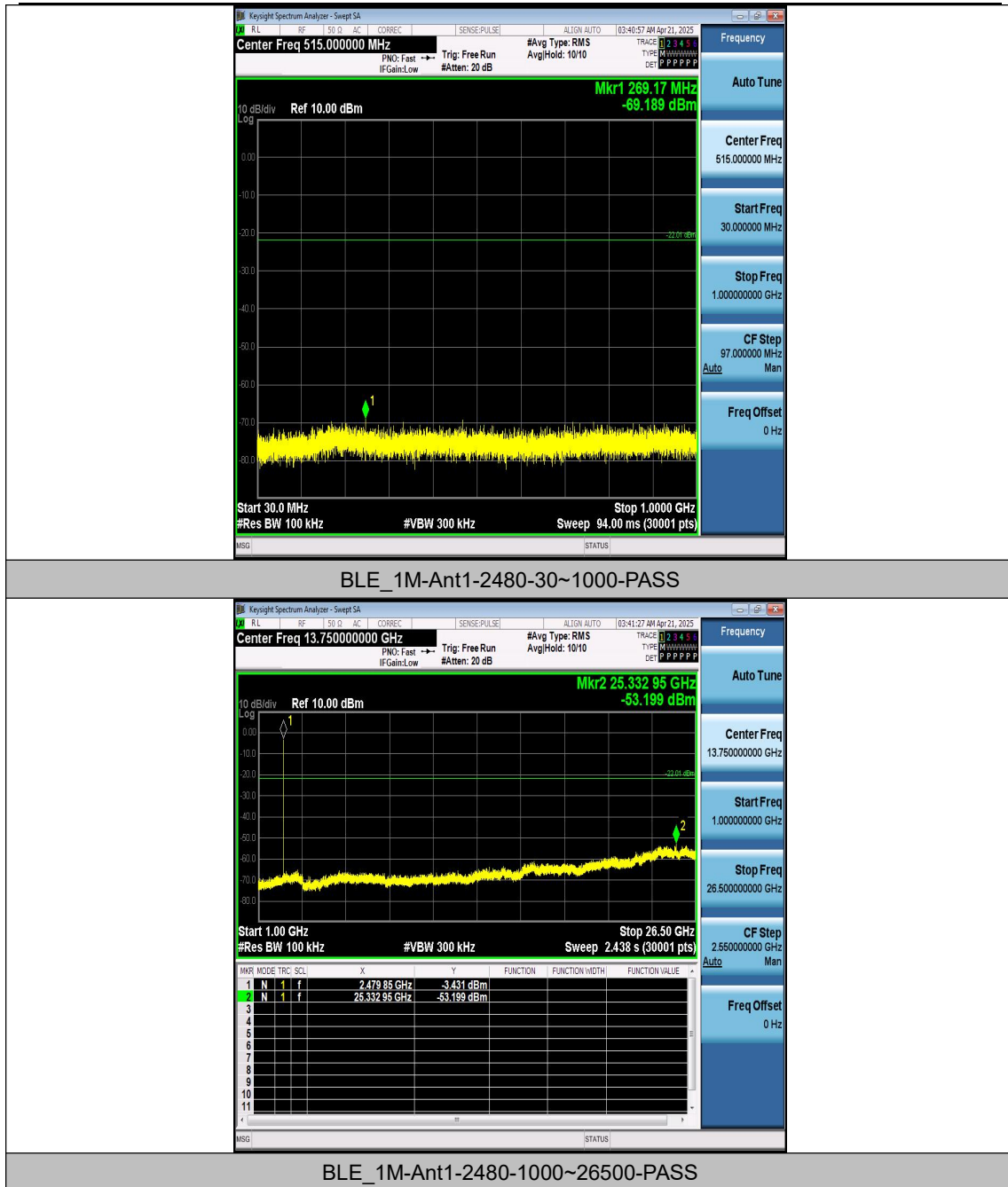


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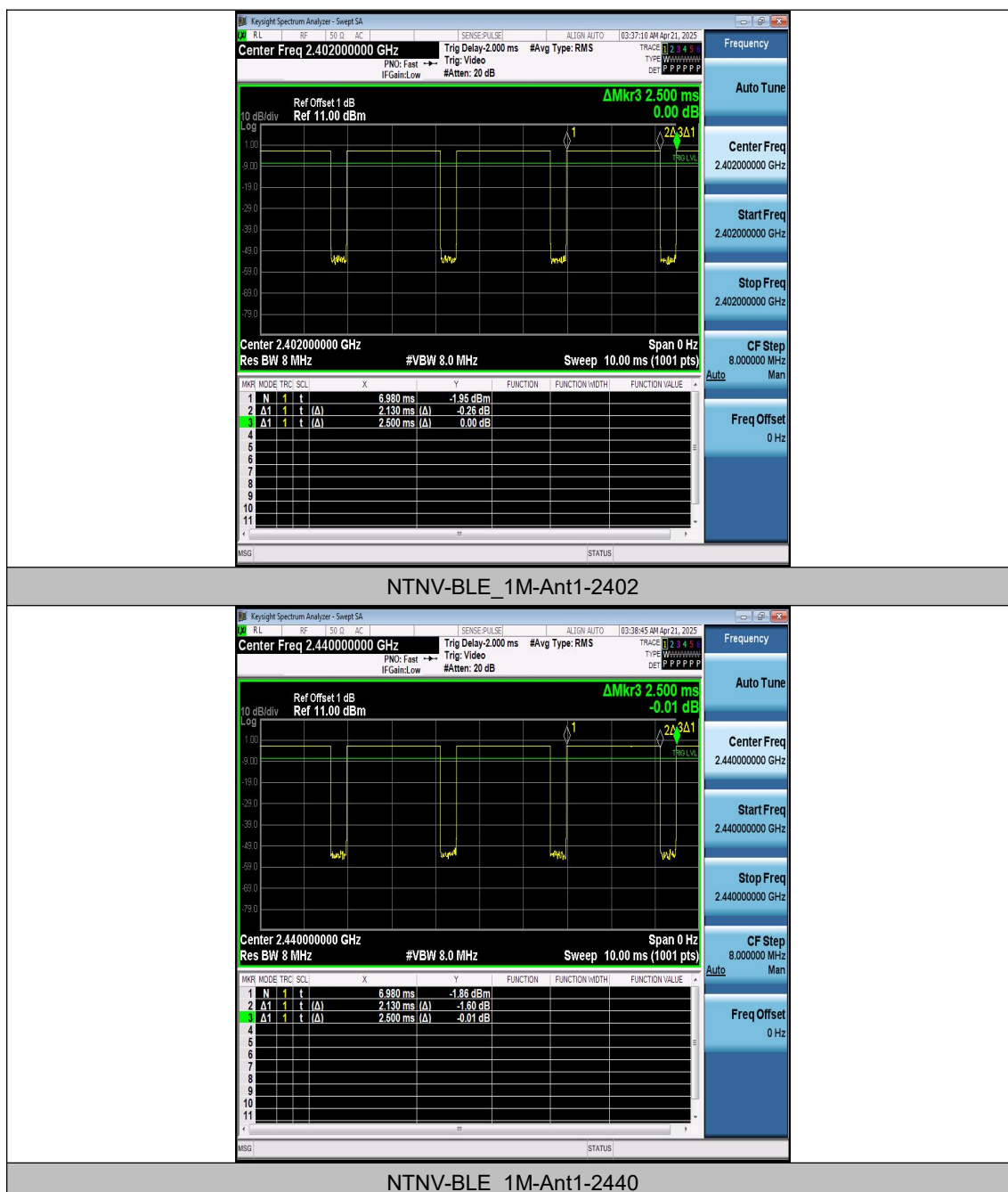
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Appendix G: Duty Cycle

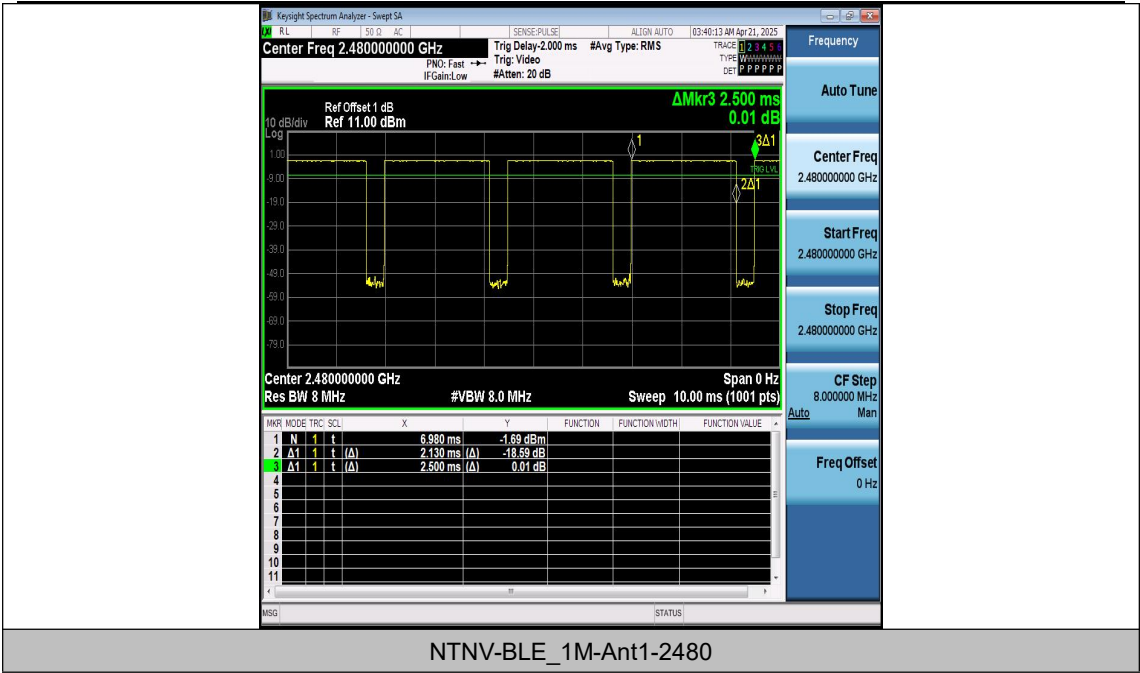
Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.50	85.20	0.70
BLE_1M	Ant1	2440	2.13	2.50	85.20	0.70
BLE_1M	Ant1	2480	2.13	2.50	85.20	0.70

Test Graphs



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