

Appendix Test Data

Report No.:	1812C50162712501	Test Sample No.:	1-2-2
Start Test Date:	2025-04-21	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	0.712	2401.648	2402.360	0.5	PASS
BLE_1M	Ant1	2440	0.692	2439.664	2440.356	0.5	PASS
BLE_1M	Ant1	2480	0.656	2479.680	2480.336	0.5	PASS

Test Graphs

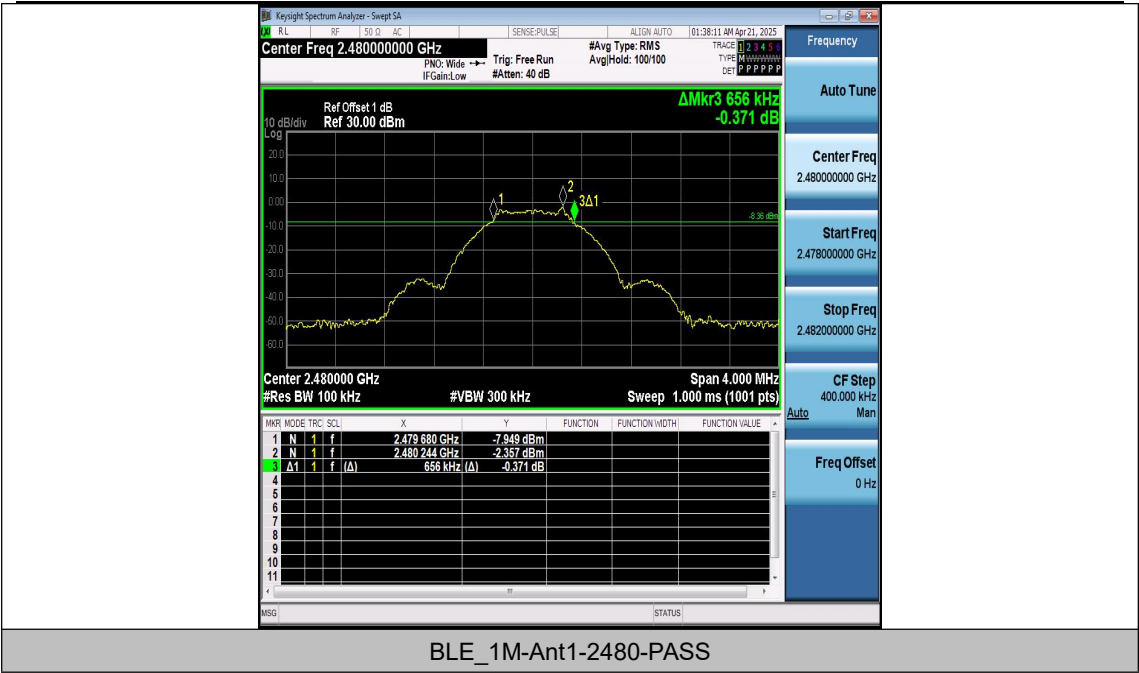


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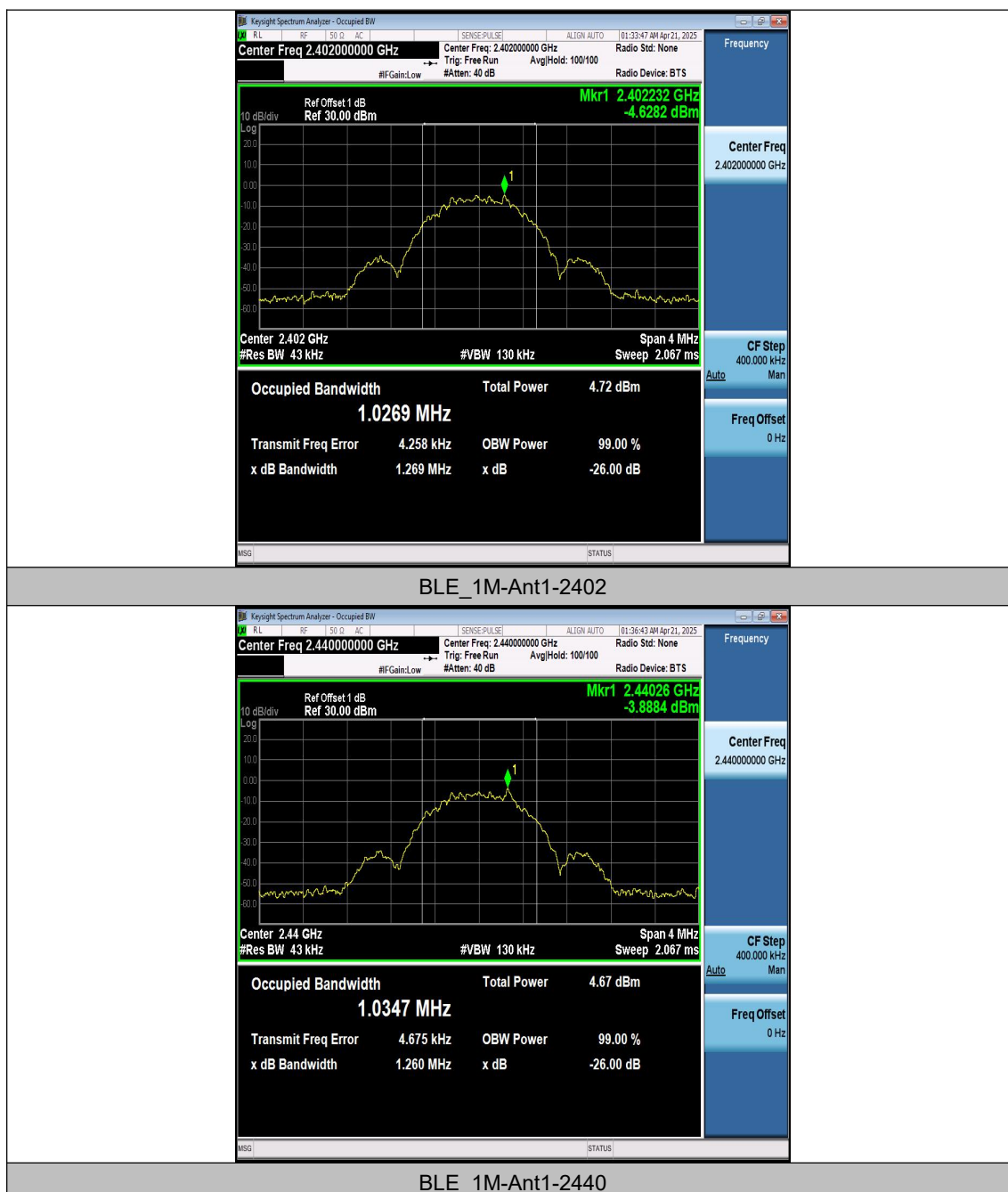
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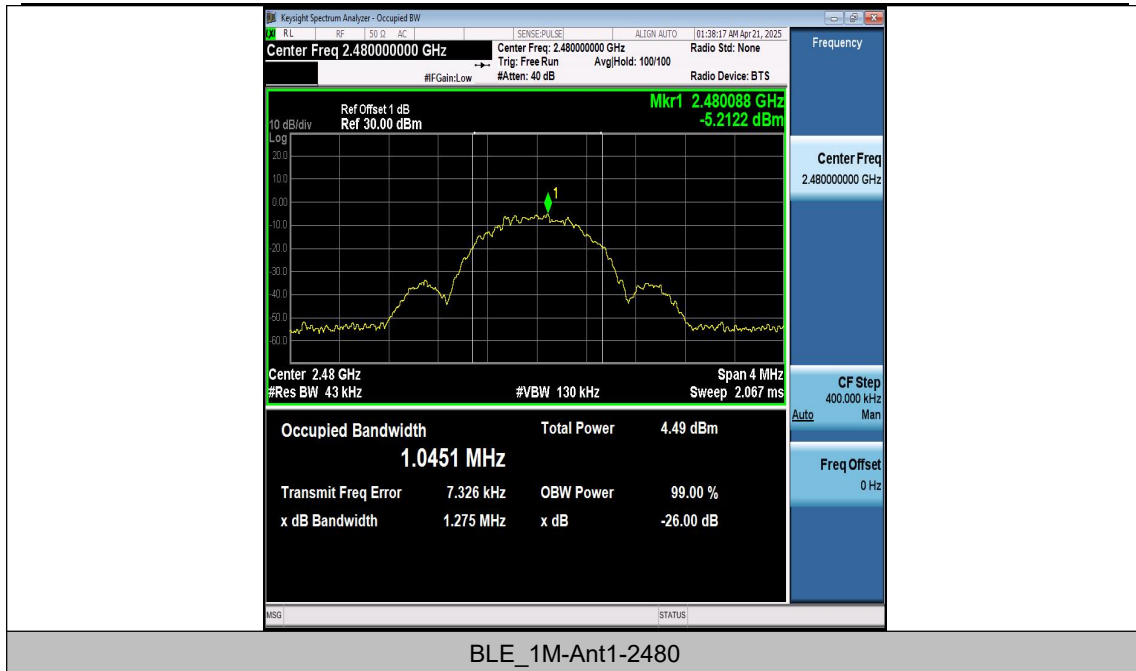
Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0269	2401.4908	2402.5177	---	---
BLE_1M	Ant1	2440	1.0347	2439.4873	2440.5220	---	---
BLE_1M	Ant1	2480	1.0451	2479.4848	2480.5299	---	---

Test Graphs





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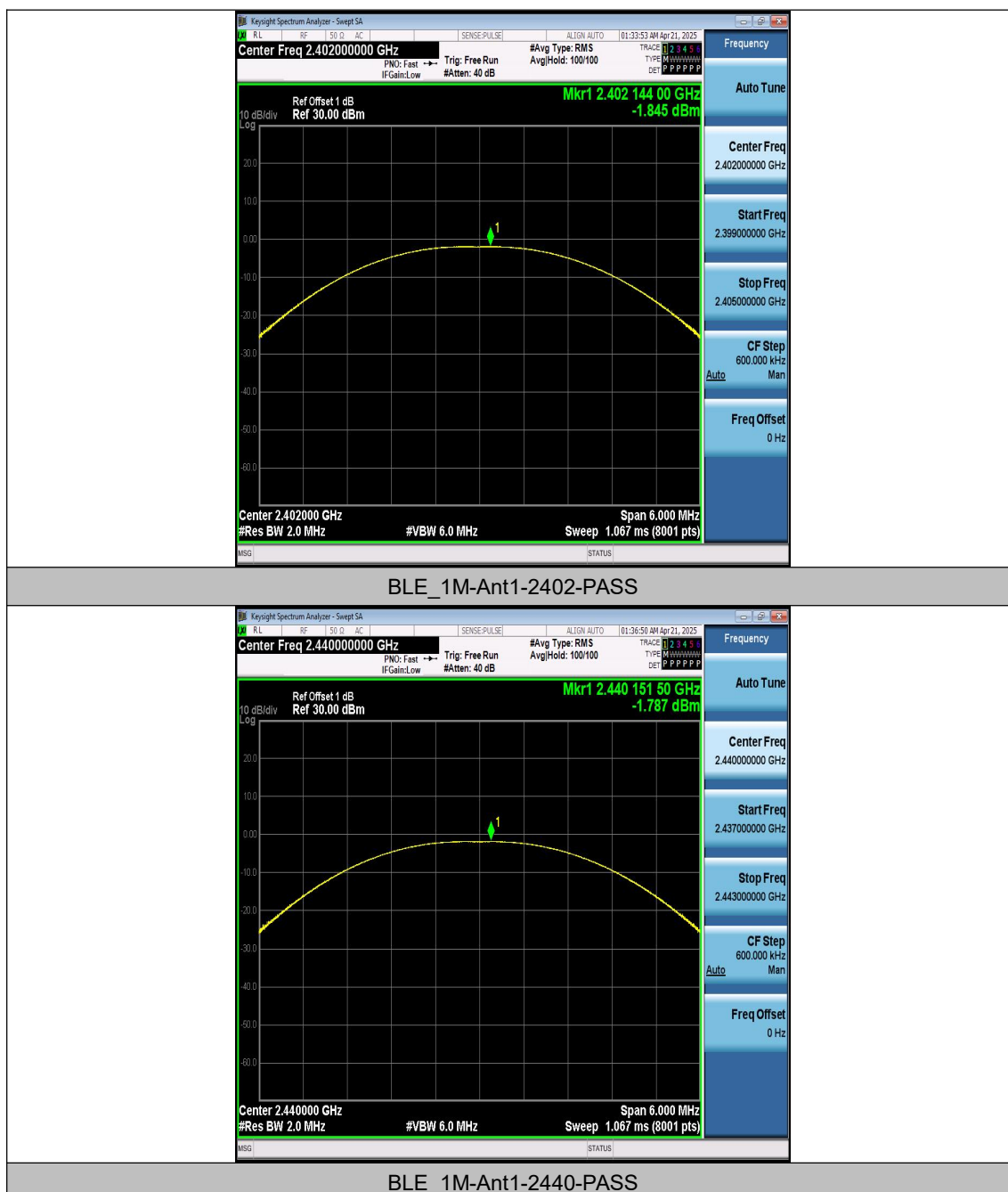
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Appendix C: Maximum conducted output power

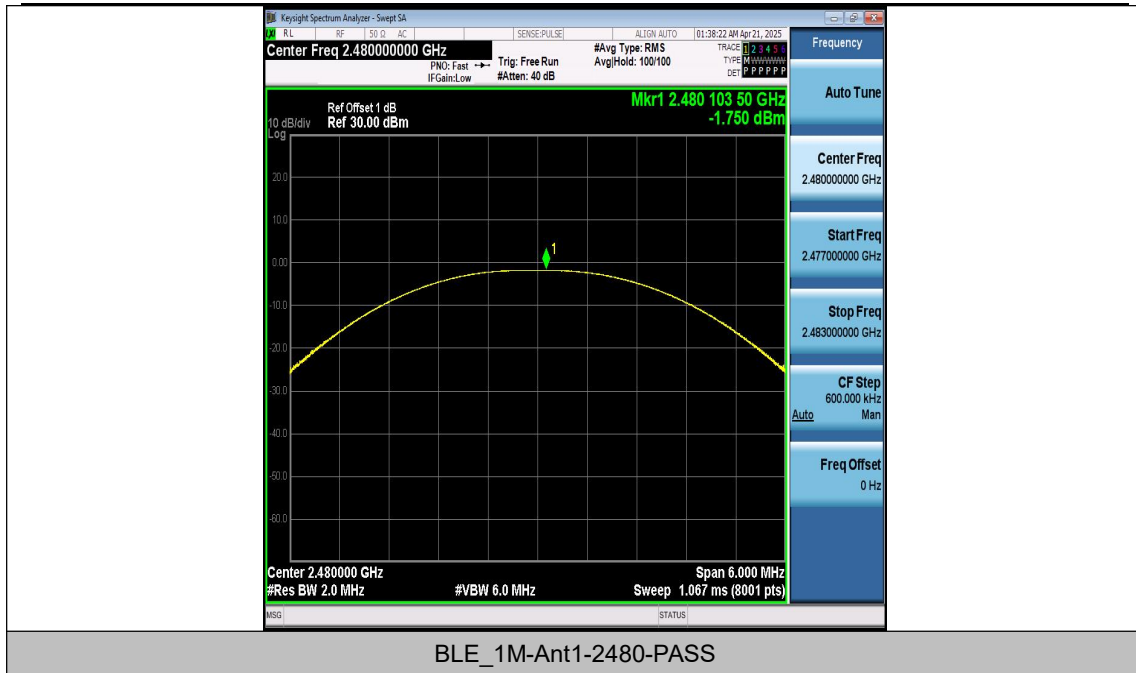
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.85	≤30	PASS
BLE_1M	Ant1	2440	-1.79	≤30	PASS
BLE_1M	Ant1	2480	-1.75	≤30	PASS

Test Graphs Peak



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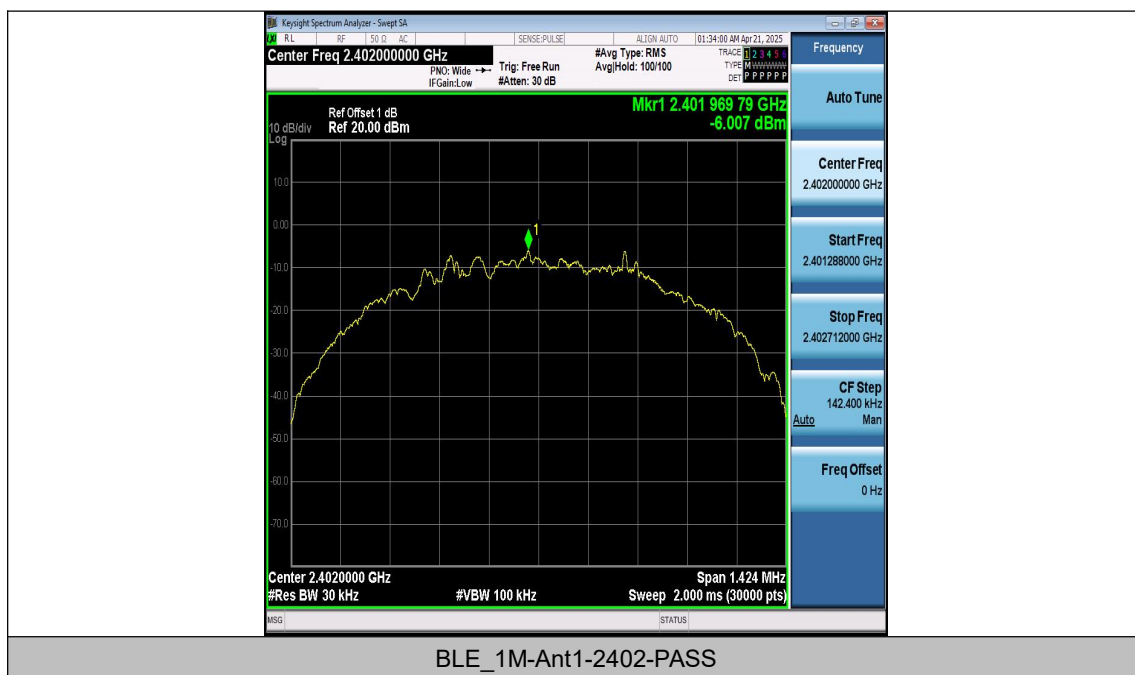
Appendix D: Maximum power spectral density

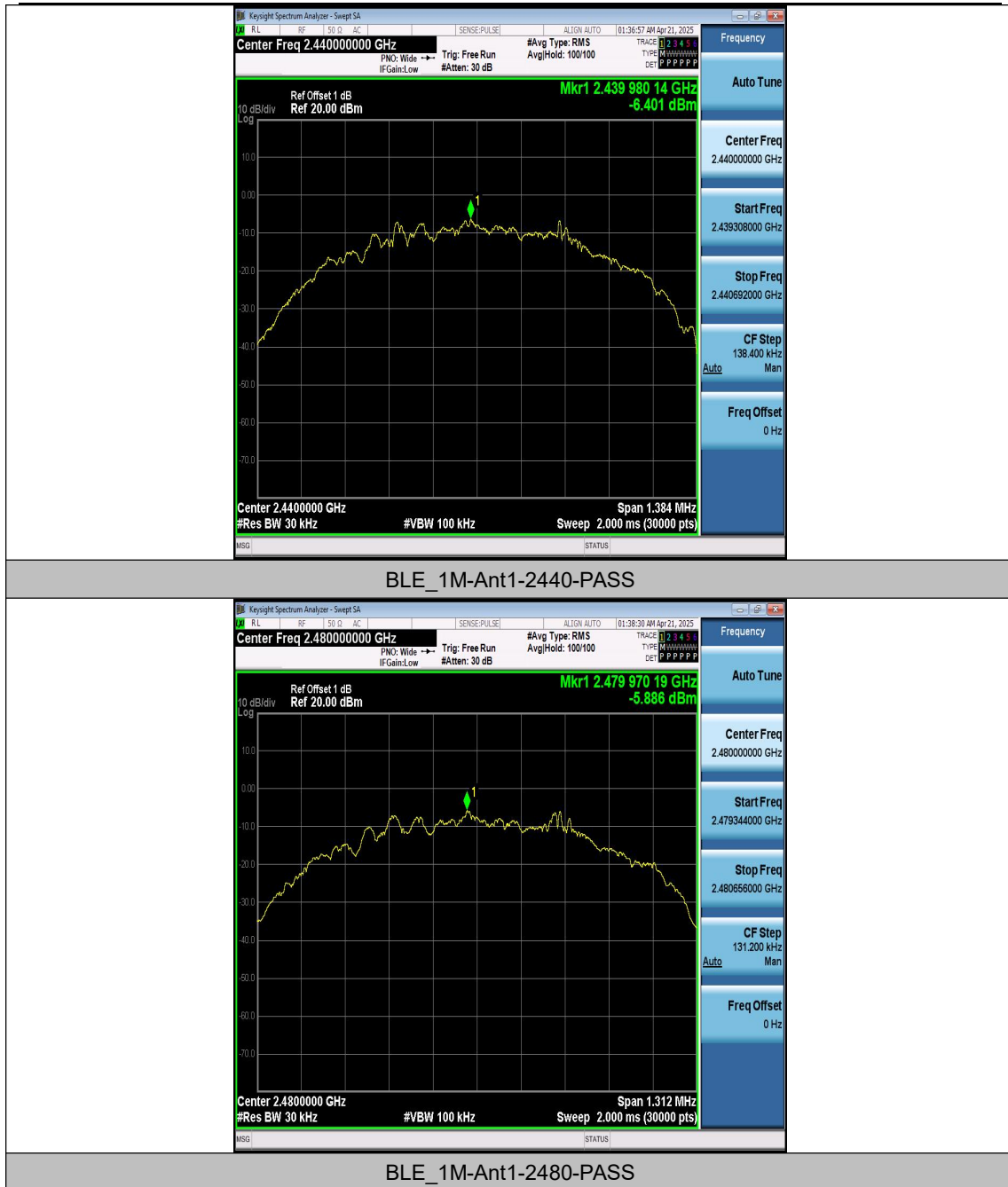
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-6.01	-16.01	≤8.00	PASS
BLE_1M	Ant1	2440	-6.40	-16.40	≤8.00	PASS
BLE_1M	Ant1	2480	-5.89	-15.89	≤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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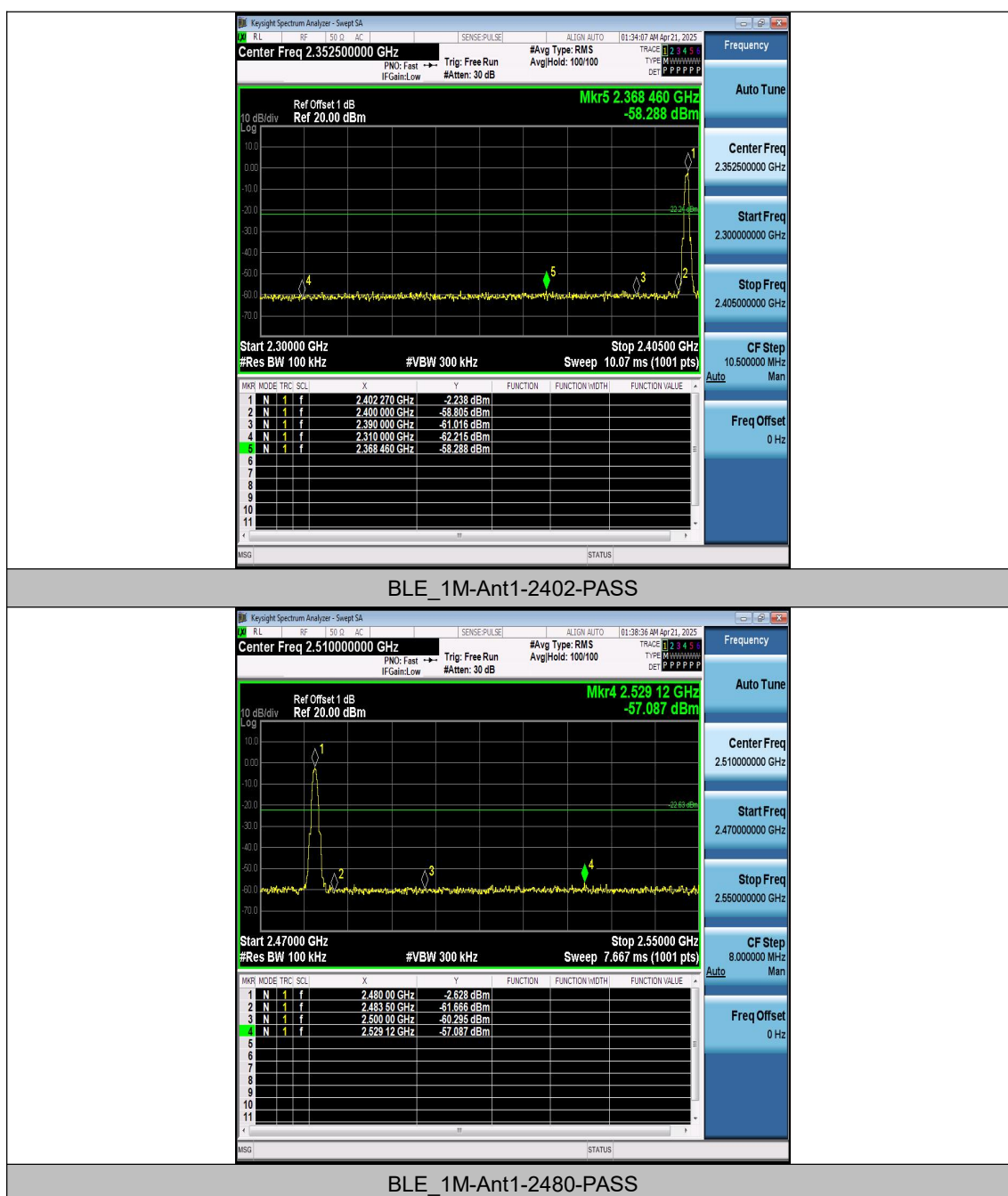
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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.24	-58.29	≤-22.24	PASS
BLE_1M	Ant1	High	2480	-2.63	-57.09	≤-22.63	PASS

Test Graphs

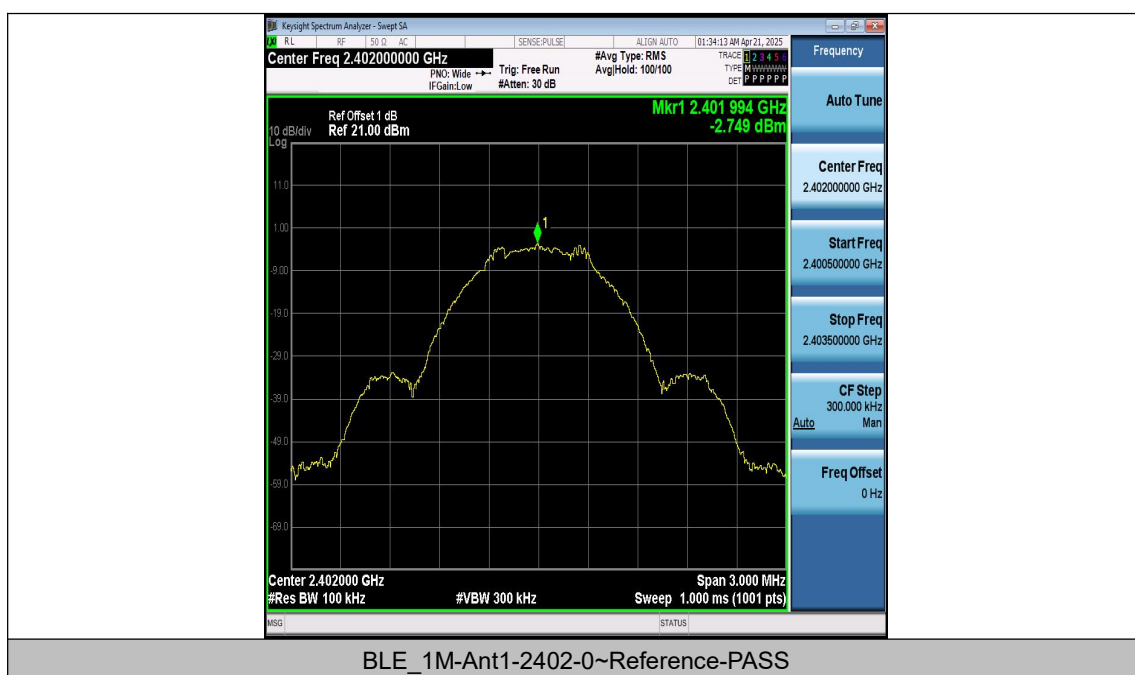


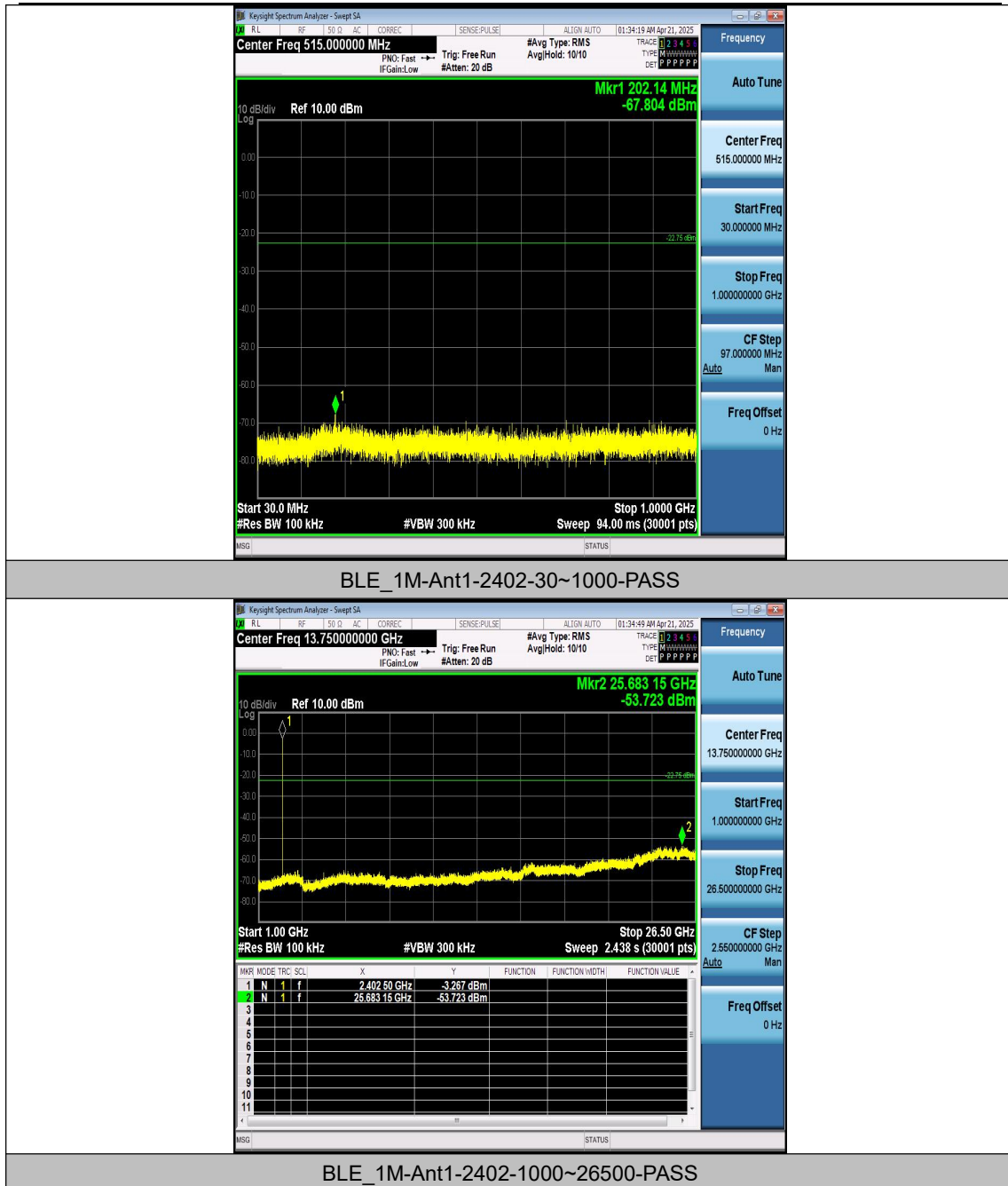
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-2.75	-2.75	---	PASS
BLE_1M	Ant1	2402	30~1000	-2.75	-67.8	≤-22.75	PASS
BLE_1M	Ant1	2402	1000~26500	-2.75	-53.72	≤-22.75	PASS
BLE_1M	Ant1	2440	0~Reference	-2.77	-2.77	---	PASS
BLE_1M	Ant1	2440	30~1000	-2.77	-69.27	≤-22.77	PASS
BLE_1M	Ant1	2440	1000~26500	-2.77	-53.54	≤-22.77	PASS
BLE_1M	Ant1	2480	0~Reference	-2.99	-2.99	---	PASS
BLE_1M	Ant1	2480	30~1000	-2.99	-69.3	≤-22.99	PASS
BLE_1M	Ant1	2480	1000~26500	-2.99	-53.67	≤-22.99	PASS

Test Graphs

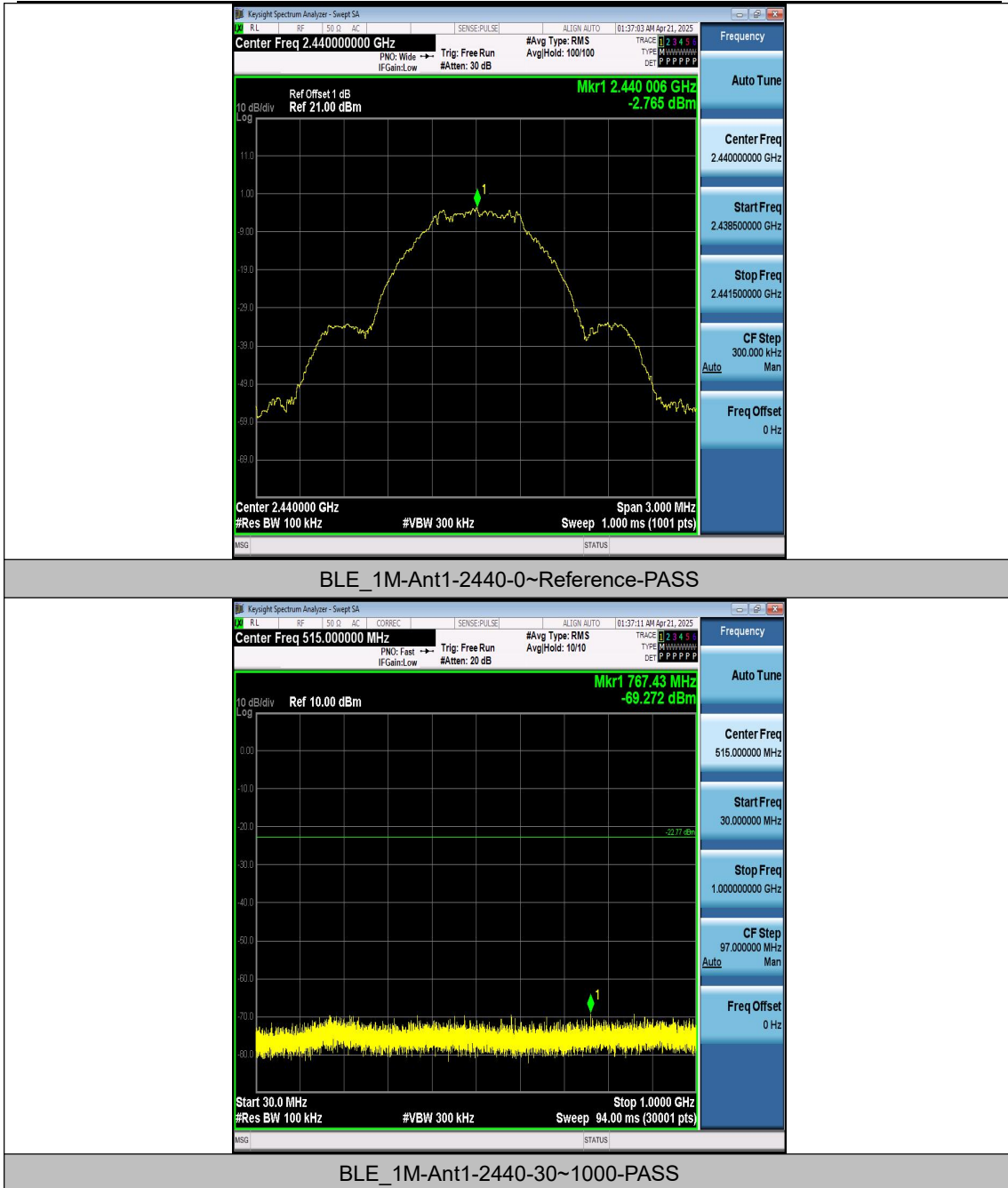




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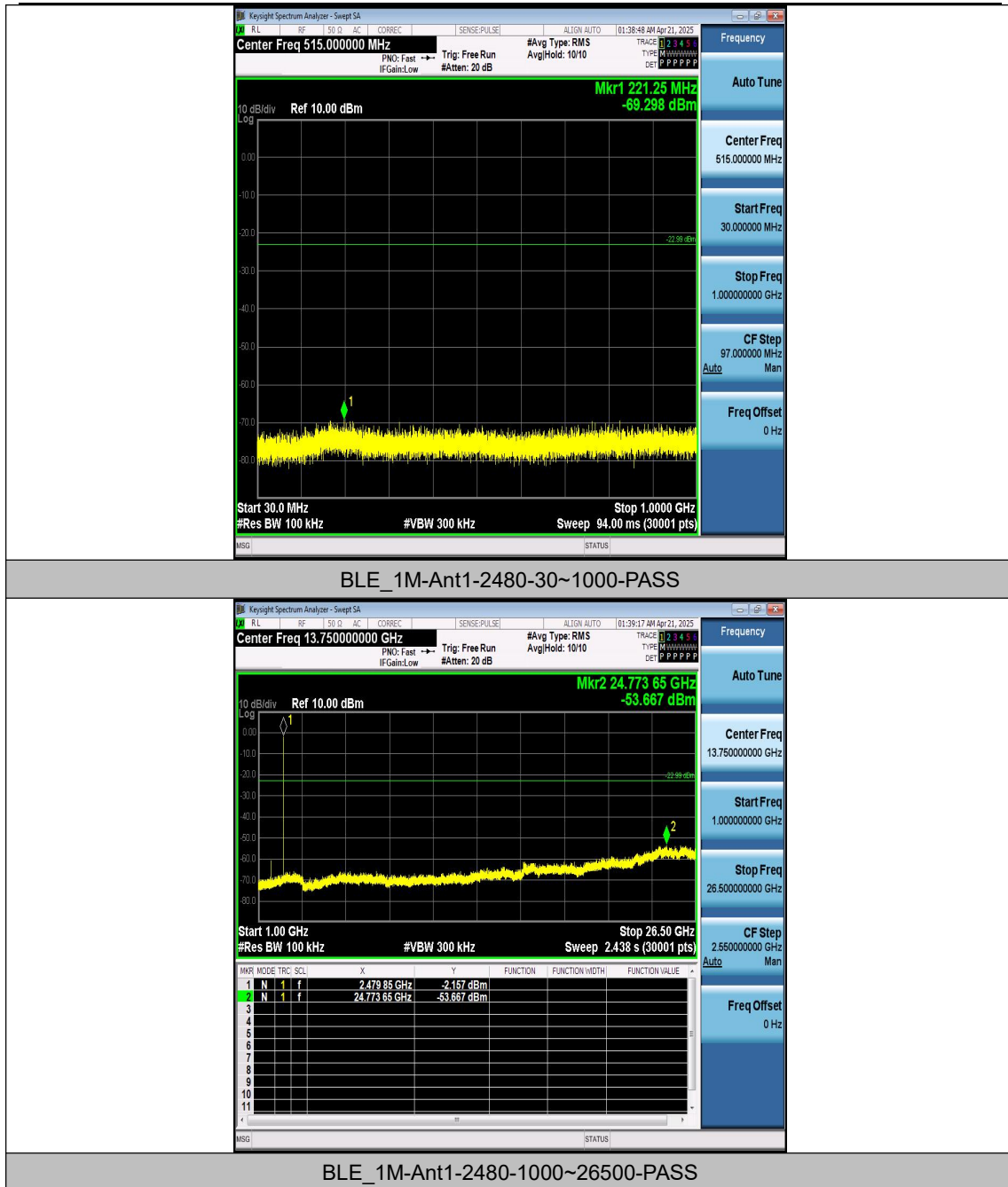
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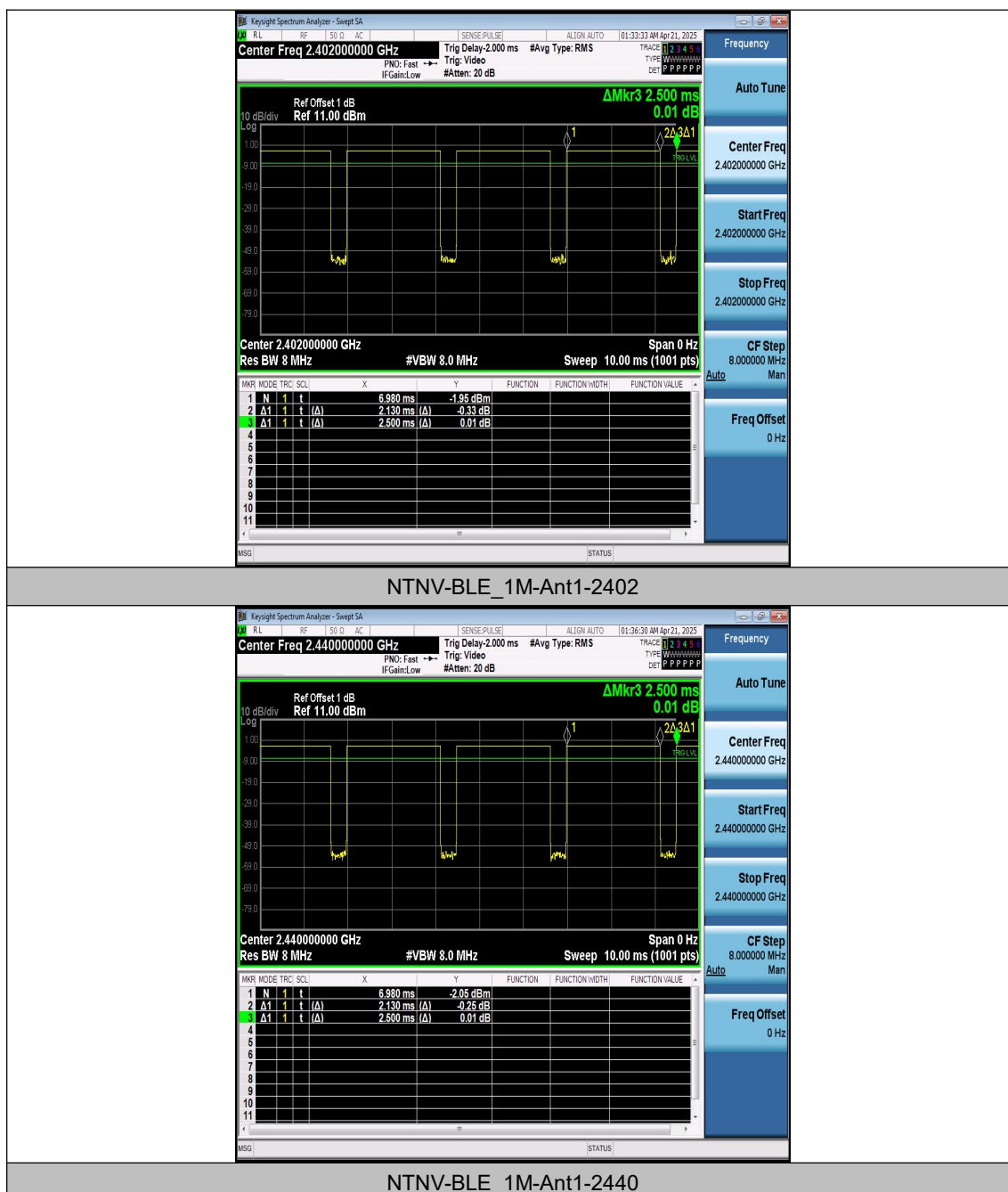


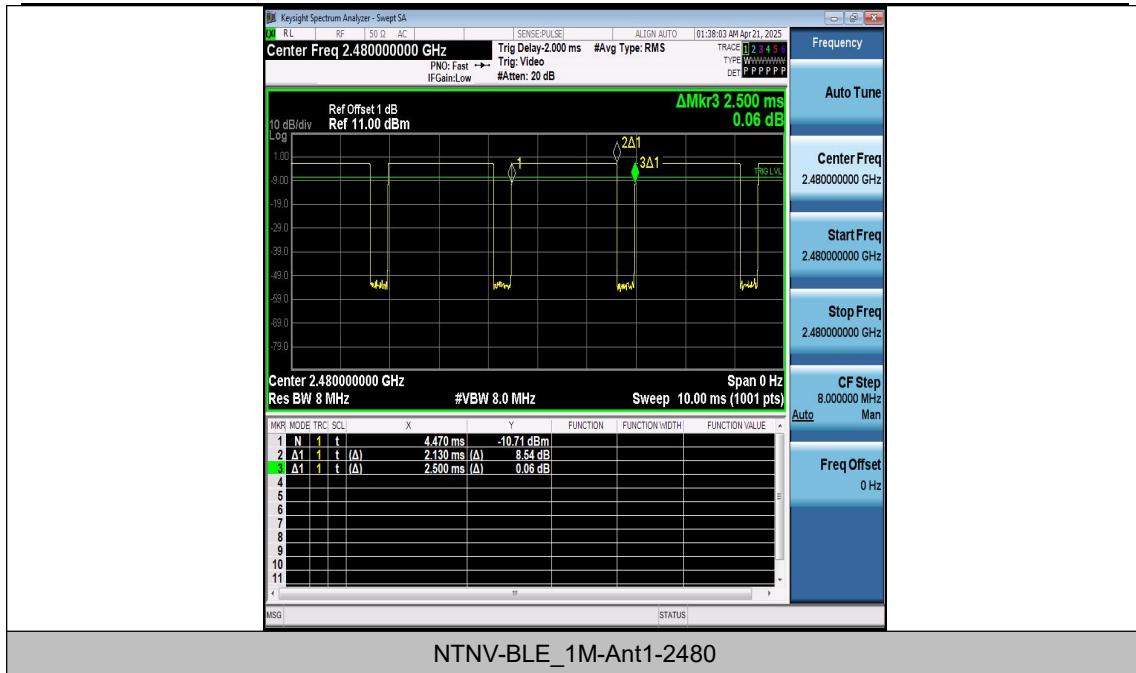
Appendix G: Duty Cycle

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





---End---