

Appendix Test Data

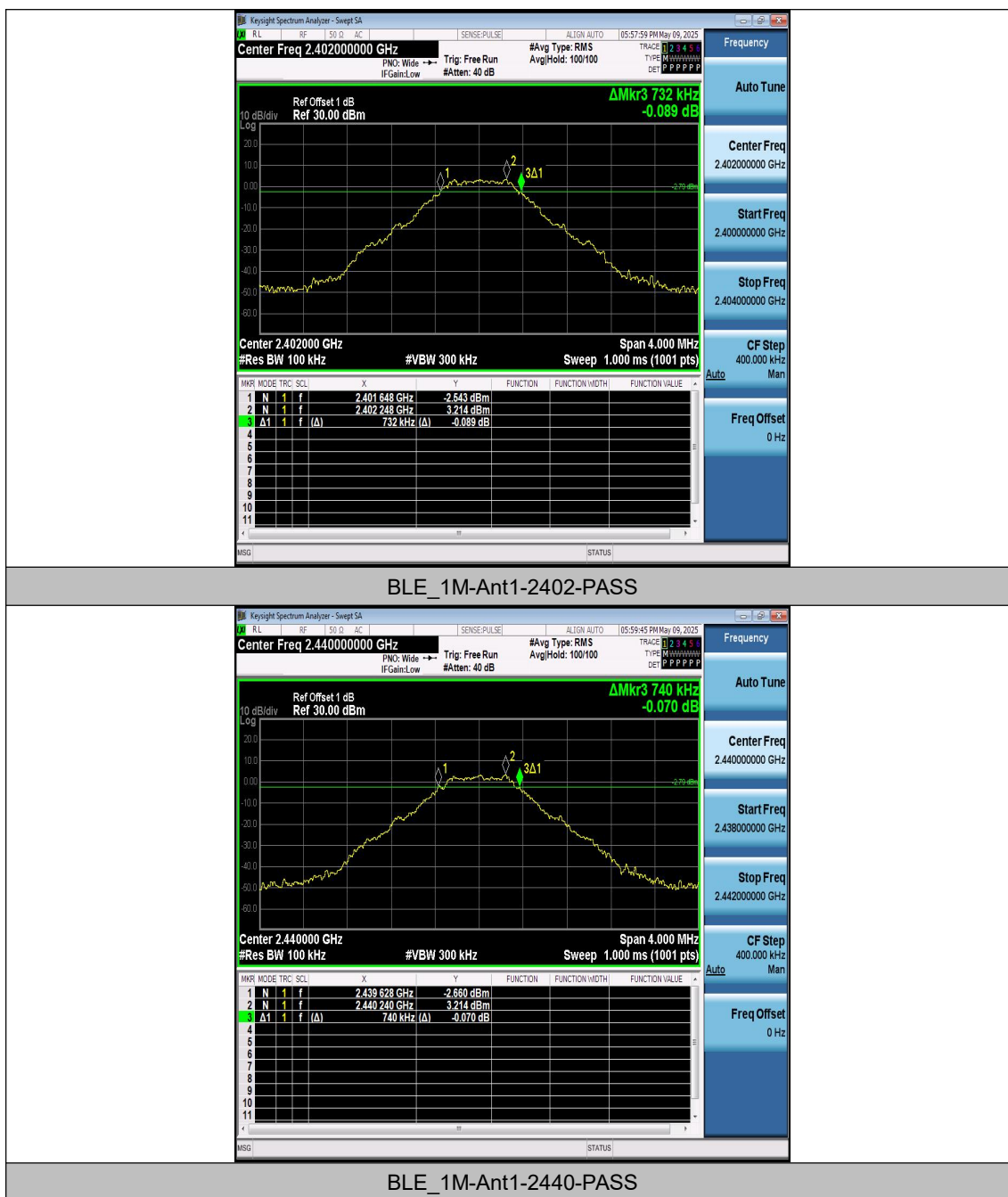
Report No.:	1814C50133612501	Test Sample No.:	1-2-2
Start Test Date:	2025-05-09	Finish Test Date:	2025-05-09
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	21.5°C	Relative Humidity:	52%
Pressure:	101kPa		

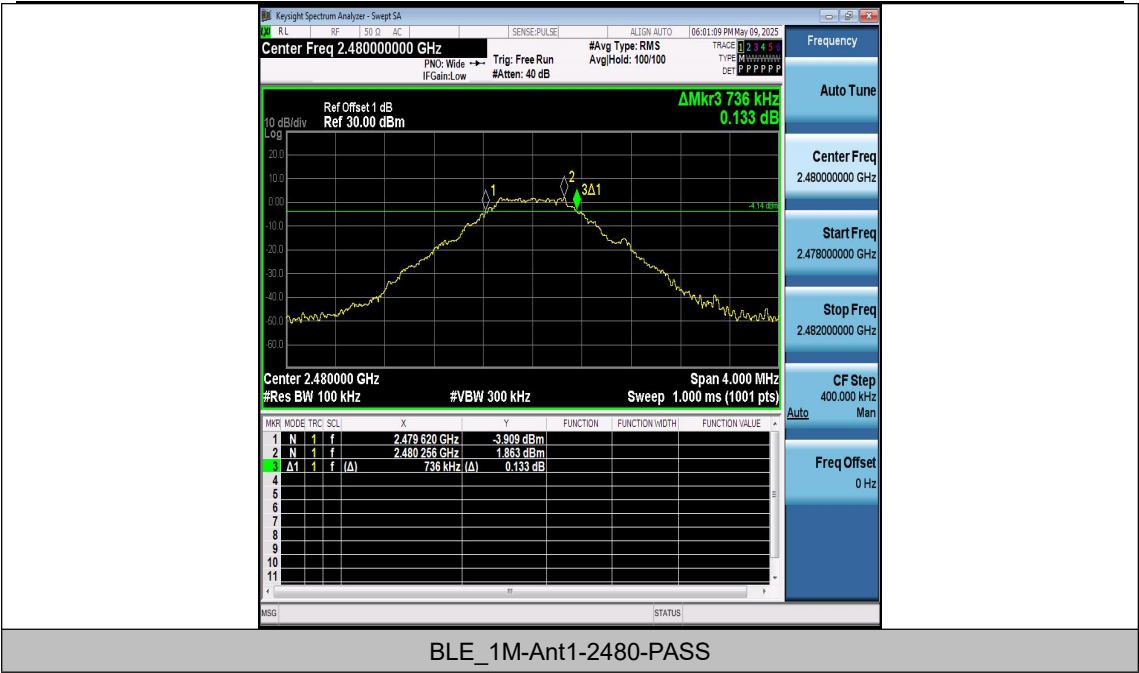
Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.732	2401.648	2402.380	0.5	PASS
BLE_1M	Ant1	2440	0.740	2439.628	2440.368	0.5	PASS
BLE_1M	Ant1	2480	0.736	2479.620	2480.356	0.5	PASS

Test Graphs





BLE_1M-Ant1-2480-PASS

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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	1.1278	2401.4417	2402.5695	---	---
BLE_1M	Ant1	2440	1.2098	2439.4036	2440.6134	---	---
BLE_1M	Ant1	2480	1.2667	2479.3755	2480.6422	---	---

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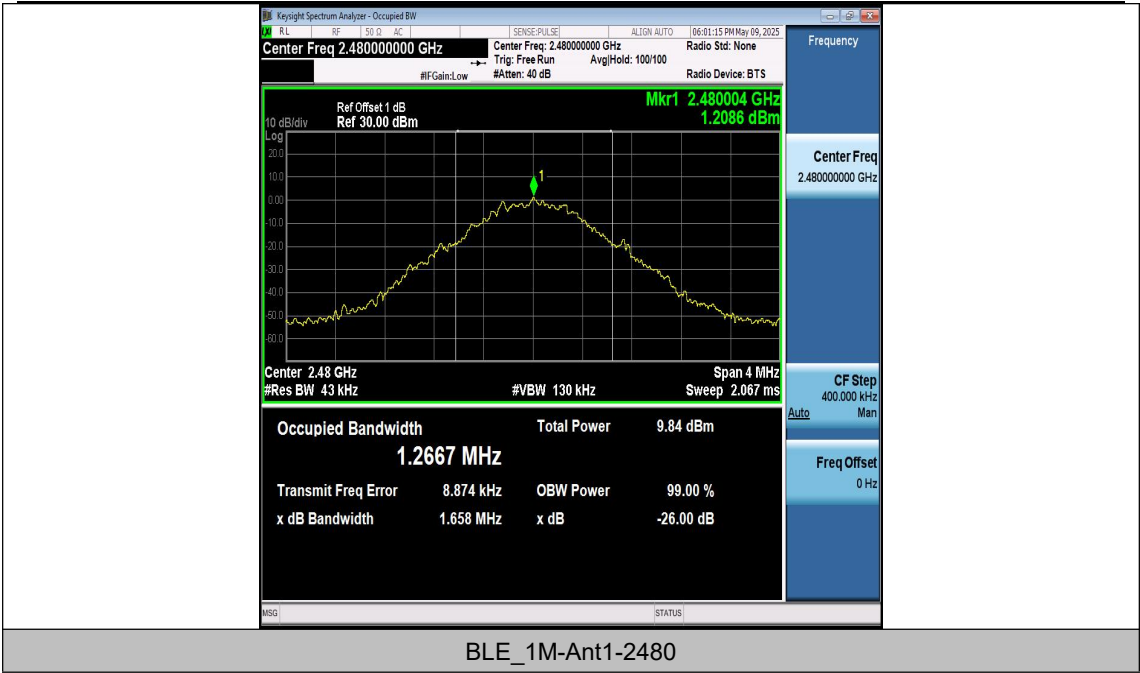
Test Graphs



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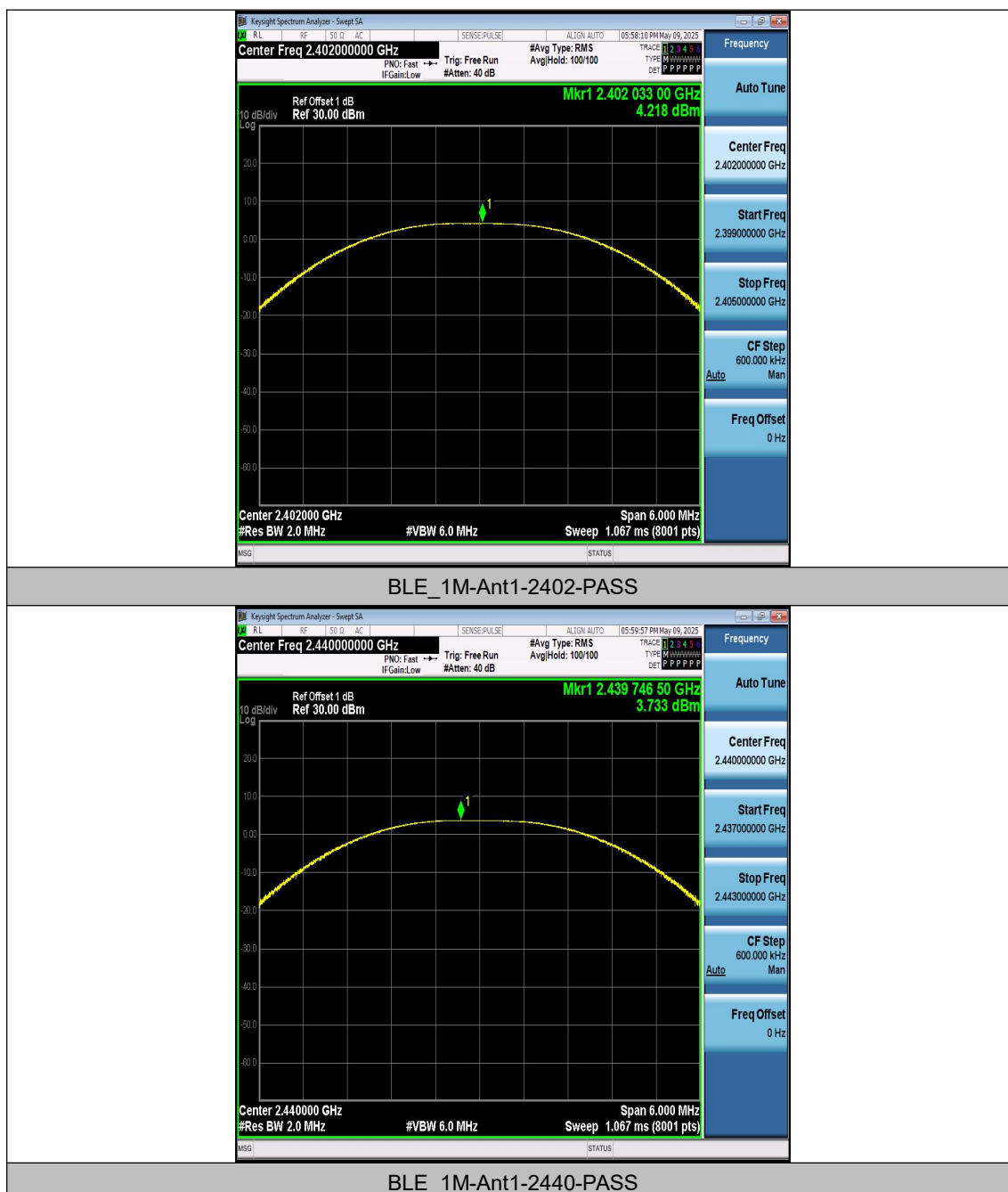
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Appendix C: Maximum conducted output power

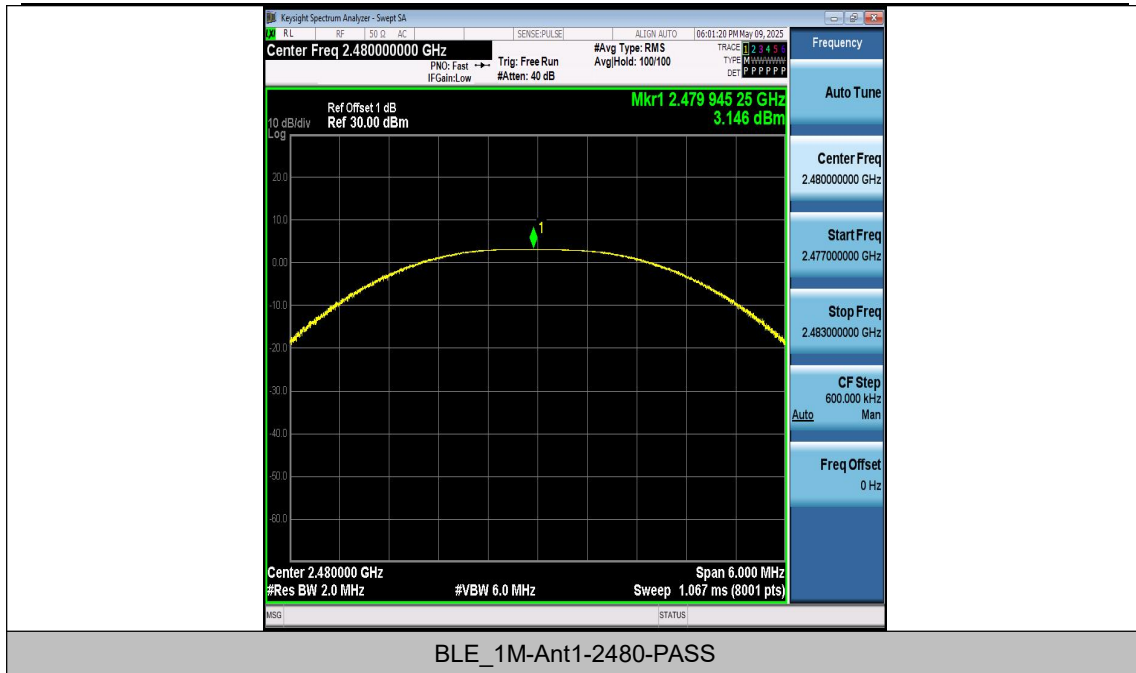
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	4.22	≤30	PASS
BLE_1M	Ant1	2440	3.73	≤30	PASS
BLE_1M	Ant1	2480	3.15	≤30	PASS

Test Graphs Peak



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Appendix D: Maximum power spectral density

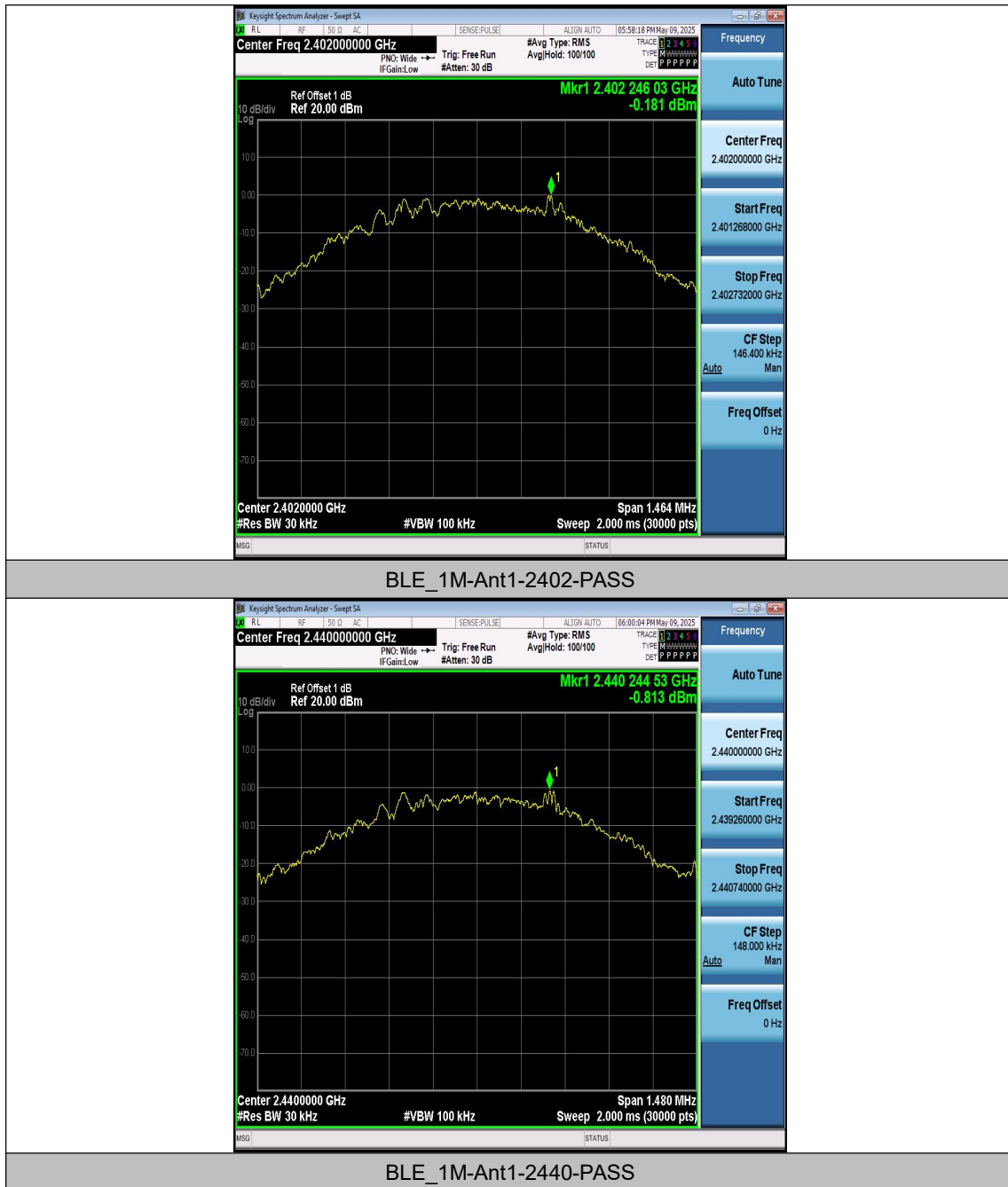
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-0.18	-10.18	≤8.00	PASS
BLE_1M	Ant1	2440	-0.81	-10.81	≤8.00	PASS
BLE_1M	Ant1	2480	-1.37	-11.37	≤8.00	PASS

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



Test Graphs



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Appendix E: Band edge measurements

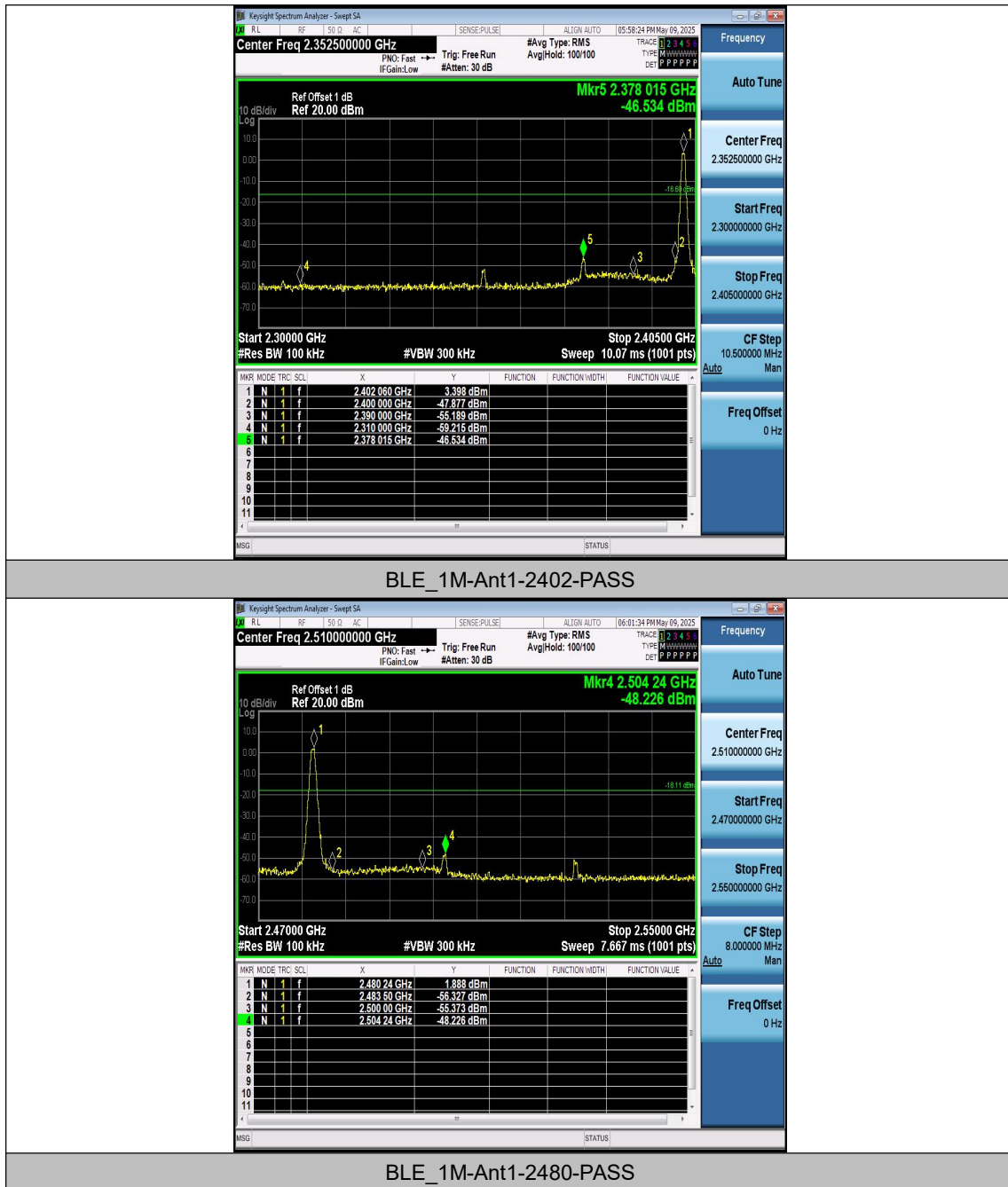
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.40	-46.53	≤-16.6	PASS
BLE_1M	Ant1	High	2480	1.89	-48.23	≤-18.11	PASS

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



Test Graphs



Appendix F: Conducted Spurious Emission

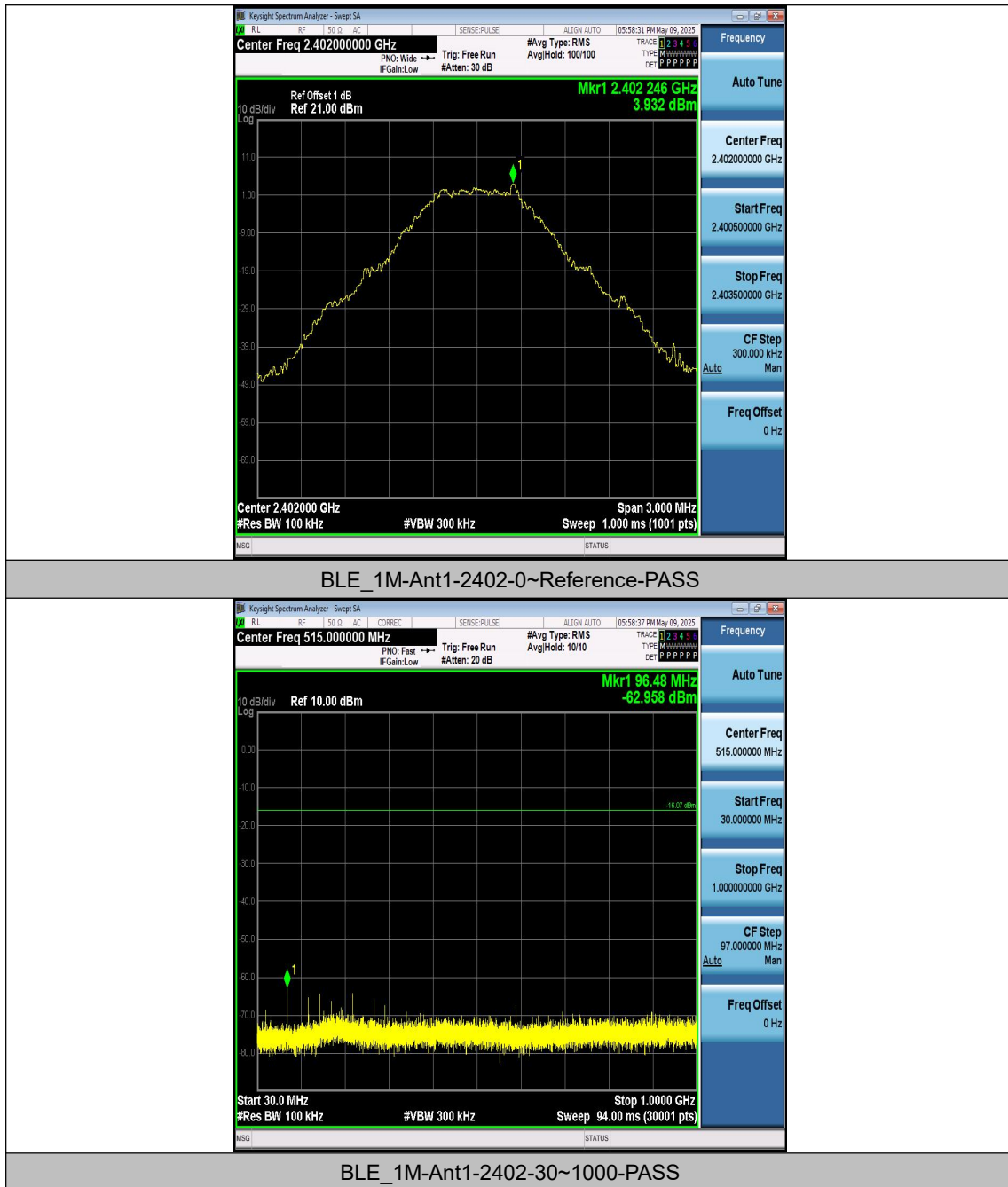
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	3.93	3.93	---	PASS
BLE_1M	Ant1	2402	30~1000	3.93	-62.96	≤-16.07	PASS
BLE_1M	Ant1	2402	1000~26500	3.93	-38.73	≤-16.07	PASS
BLE_1M	Ant1	2440	0~Reference	2.71	2.71	---	PASS
BLE_1M	Ant1	2440	30~1000	2.71	-60.26	≤-17.29	PASS
BLE_1M	Ant1	2440	1000~26500	2.71	-37.37	≤-17.29	PASS
BLE_1M	Ant1	2480	0~Reference	2.82	2.82	---	PASS
BLE_1M	Ant1	2480	30~1000	2.82	-63.36	≤-17.18	PASS
BLE_1M	Ant1	2480	1000~26500	2.82	-38.98	≤-17.18	PASS

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



Test Graphs



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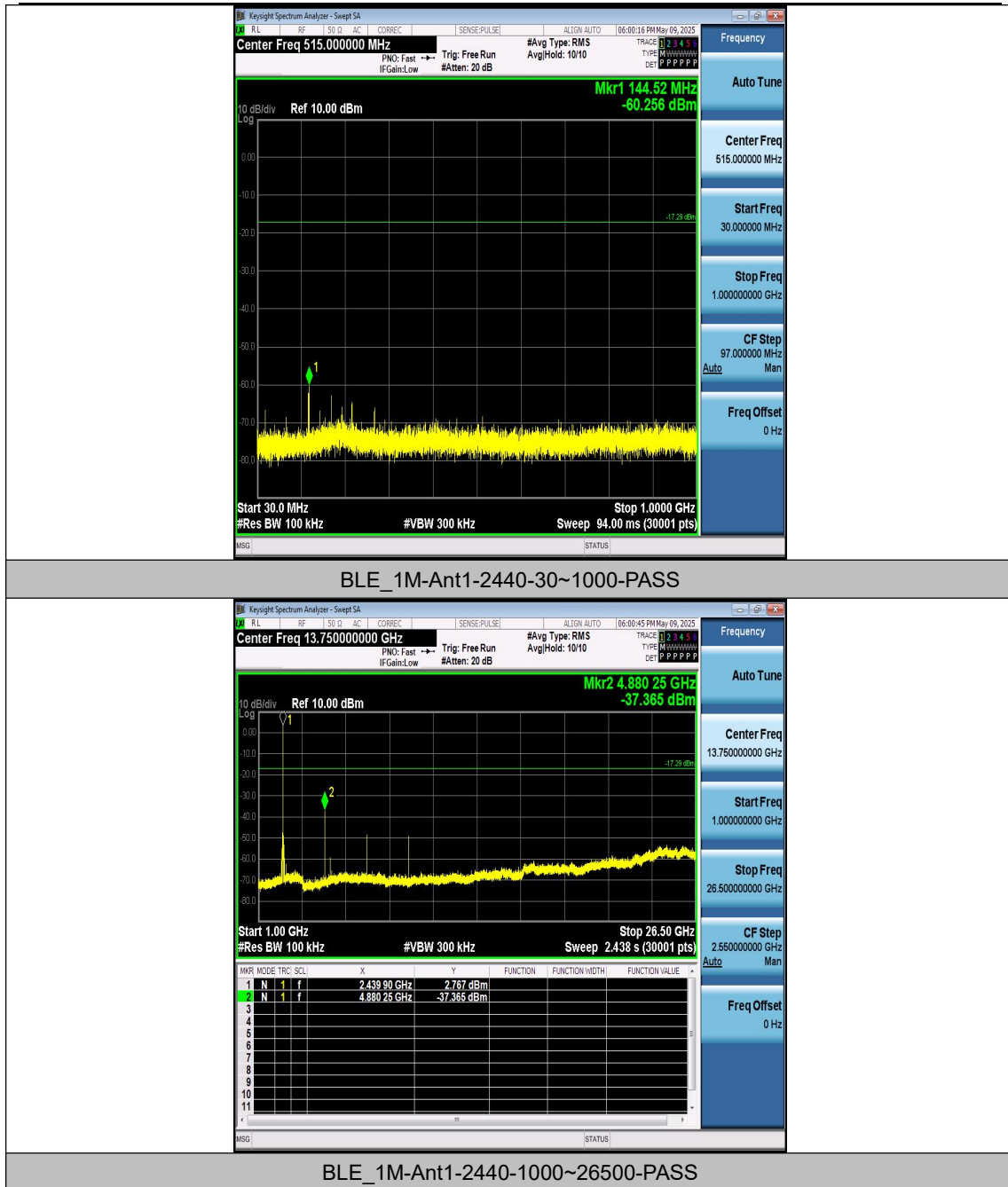


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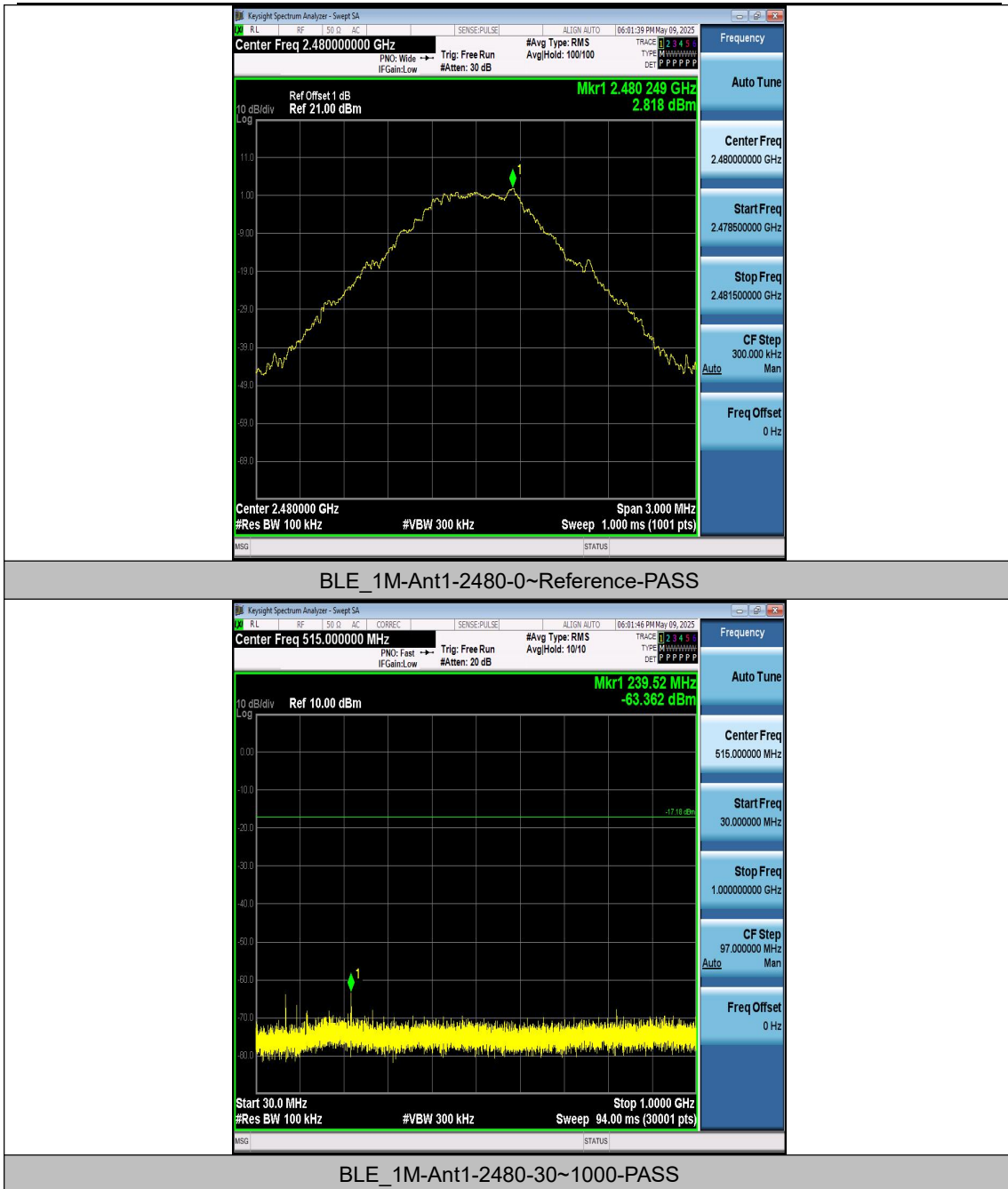


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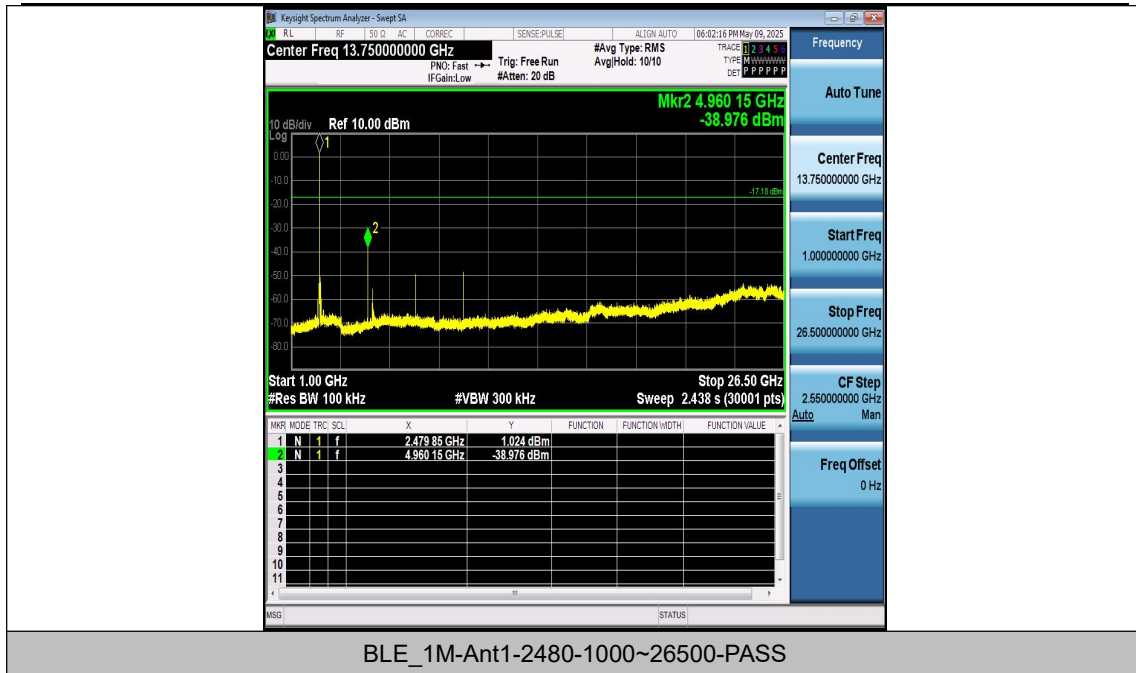


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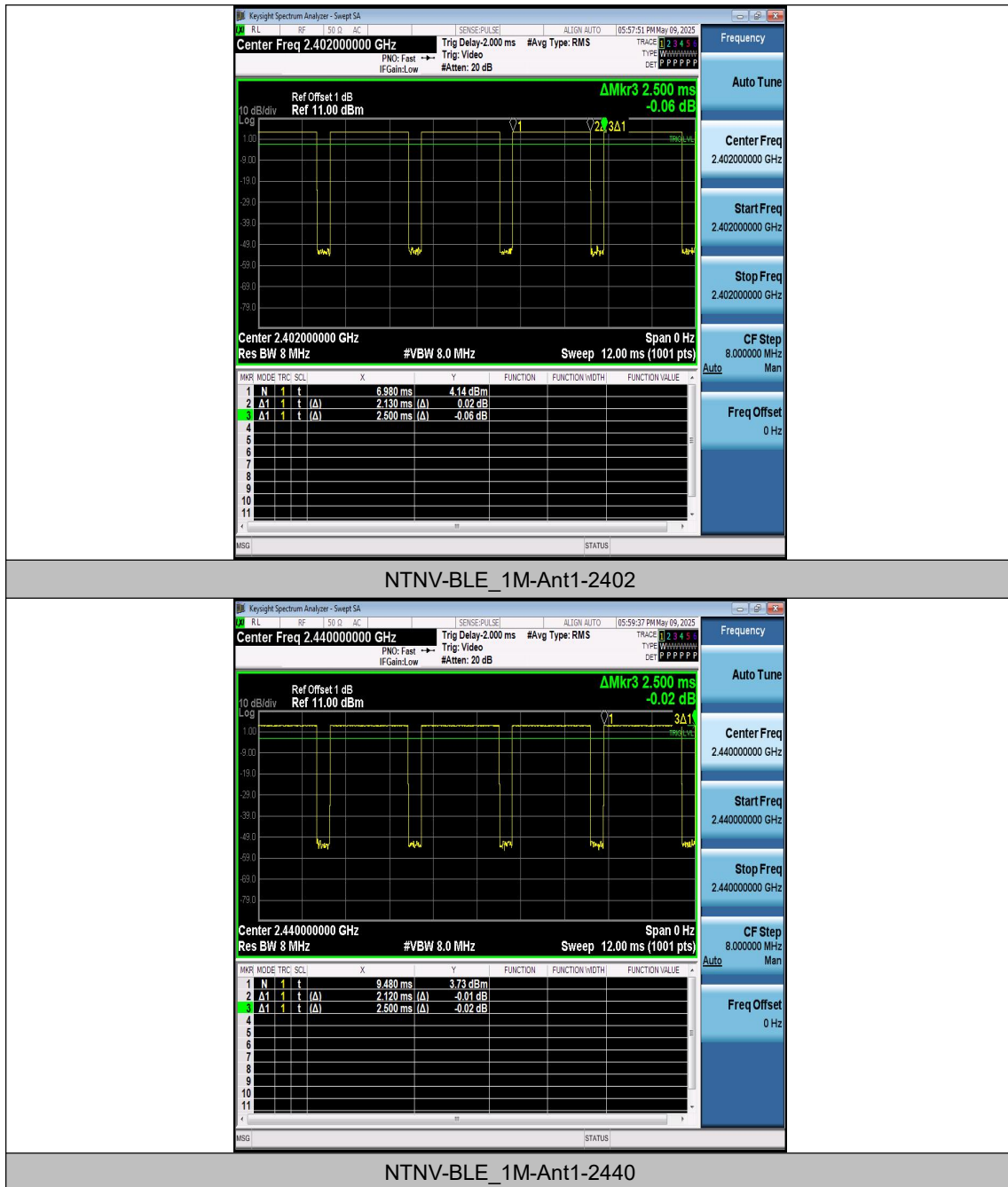
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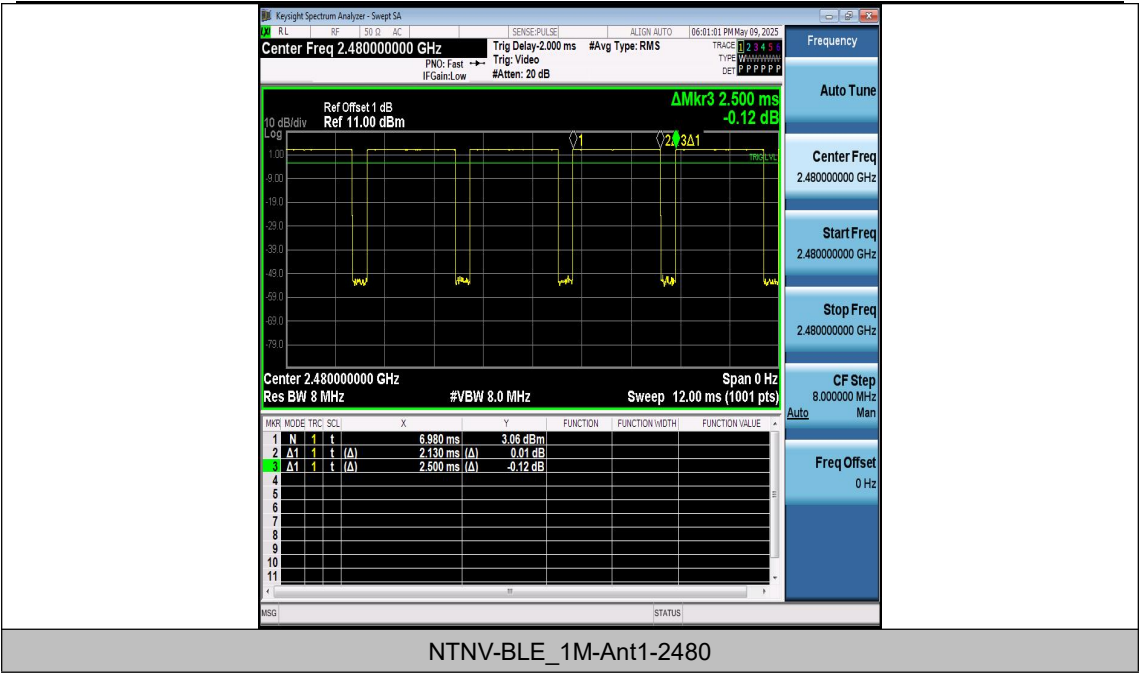
Appendix G: Duty Cycle

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	2.12	2.50	84.80	0.72
BLE_1M	Ant1	2480	2.13	2.50	85.20	0.70

Test Graphs





---End---