

Appendix Test Data

Report No.:	1812C50389512501	Test Sample No.:	1-2-2
Start Test Date:	2025-08-18	Finish Test Date:	2025-08-18
Test Engineer:	Alex Peng	Auditor:	Justin Feng
Temperature:	26.3℃	Relative Humidity:	55%
Pressure:	101kPa		

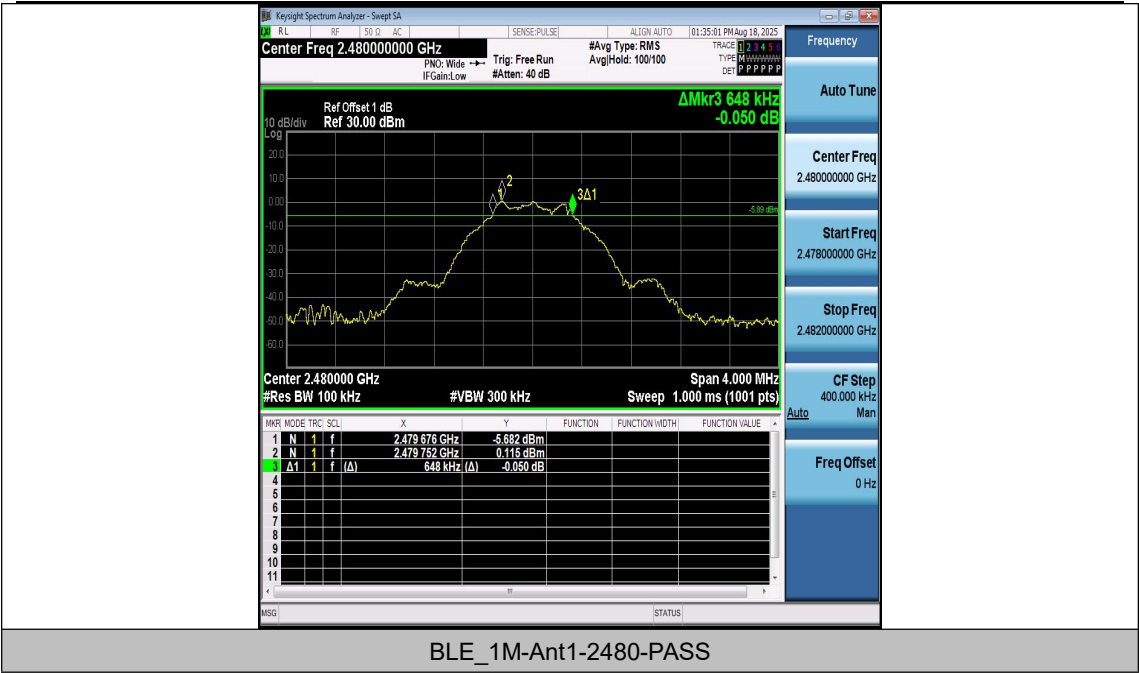
Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.672	2401.664	2402.336	0.5	PASS
BLE_1M	Ant1	2440	0.652	2439.676	2440.328	0.5	PASS
BLE_1M	Ant1	2480	0.648	2479.676	2480.324	0.5	PASS

Test Graphs





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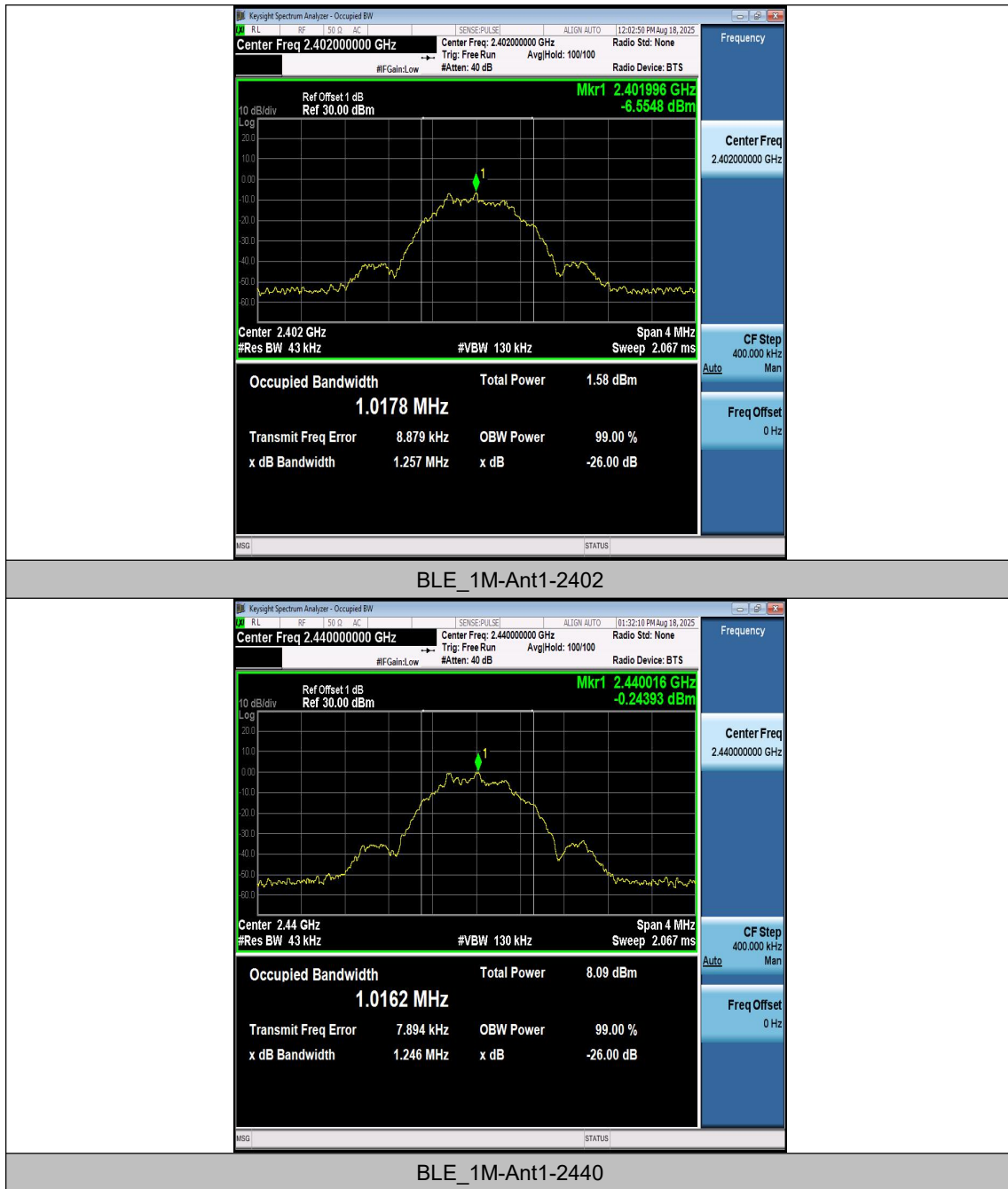
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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0178	2401.5000	2402.5178	---	---
BLE_1M	Ant1	2440	1.0162	2439.4998	2440.5160	---	---
BLE_1M	Ant1	2480	1.0151	2479.5018	2480.5169	---	---

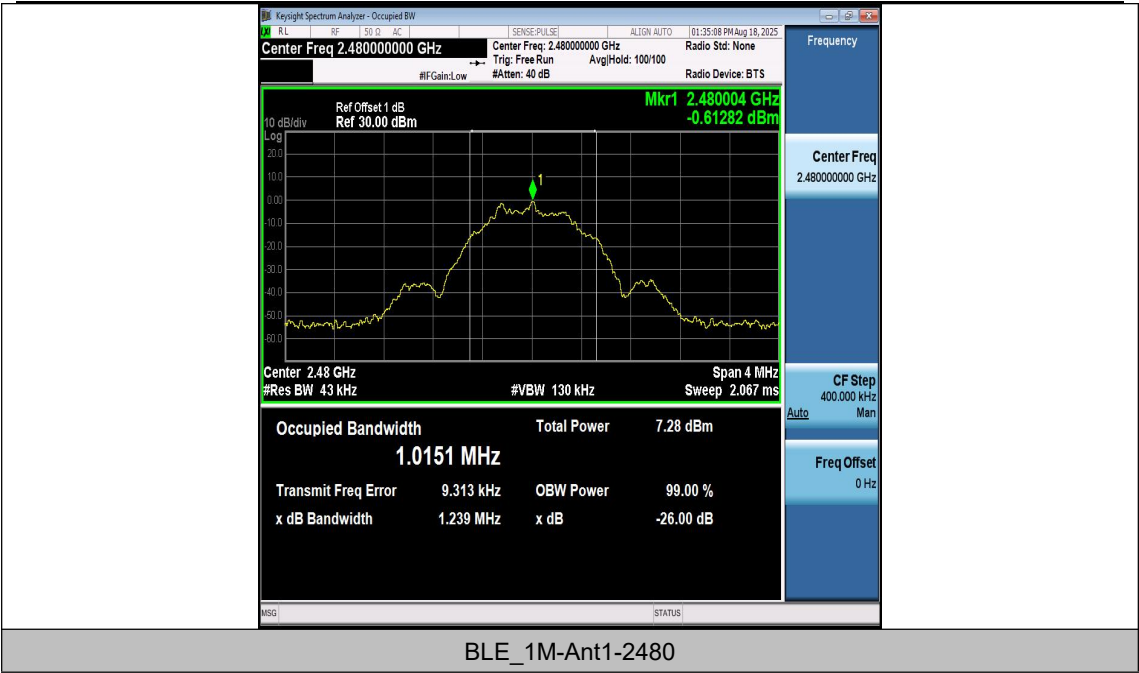
Test Graphs



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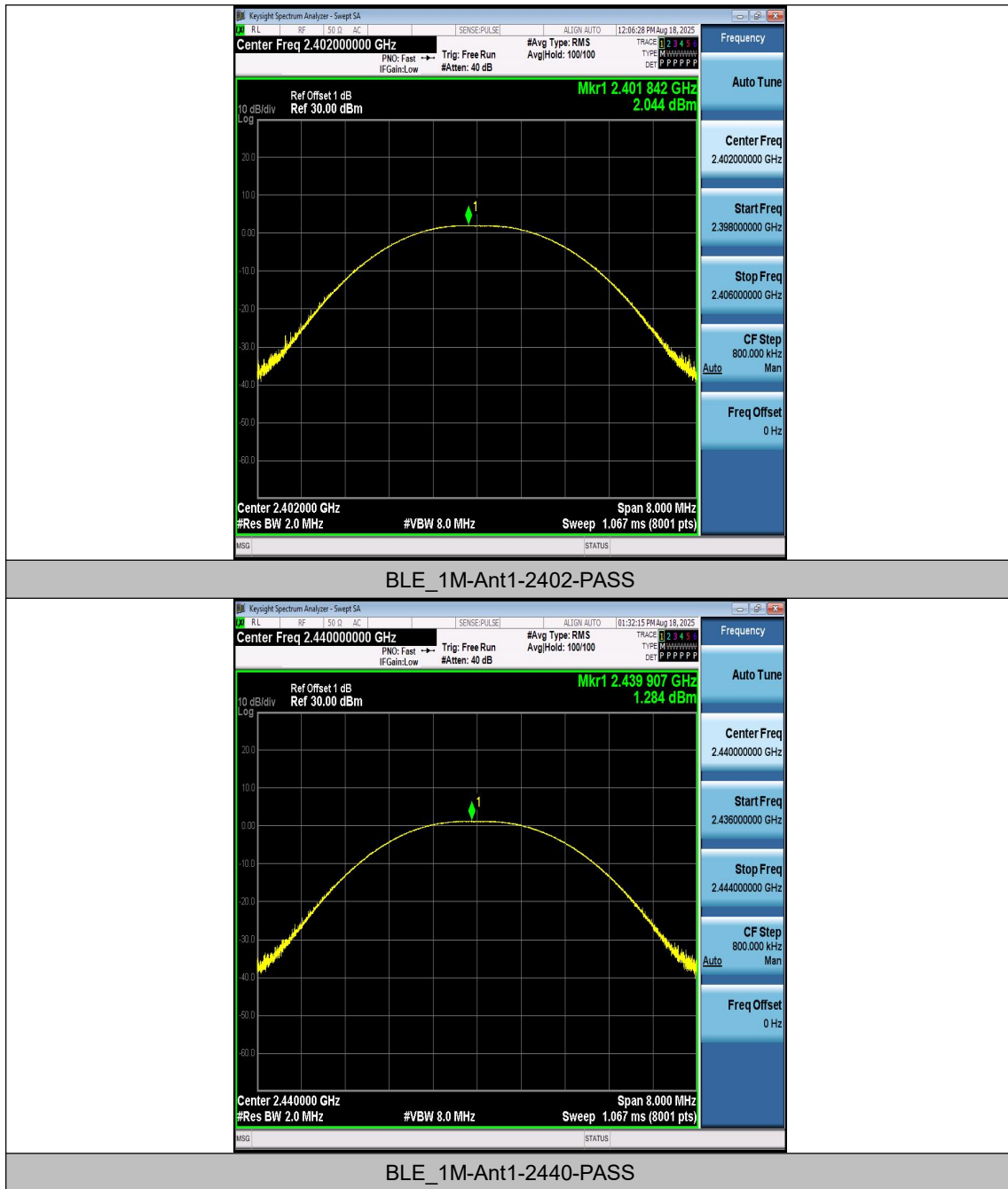
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.04	≤30	PASS
BLE_1M	Ant1	2440	1.28	≤30	PASS
BLE_1M	Ant1	2480	0.43	≤30	PASS

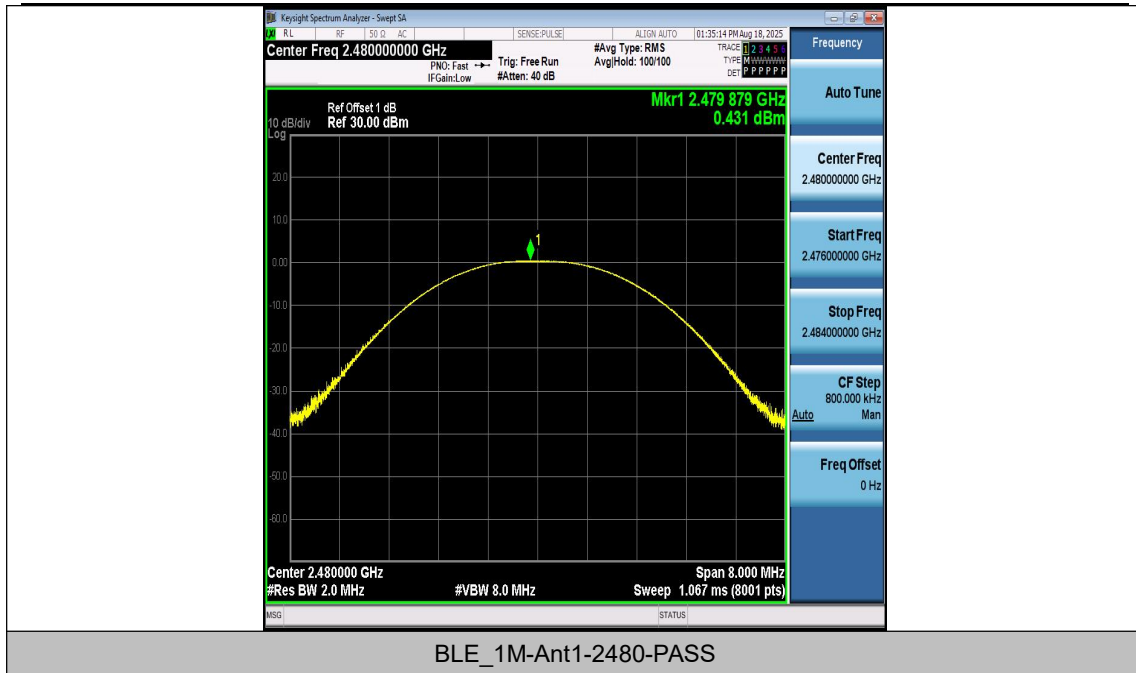
Test Graphs Peak



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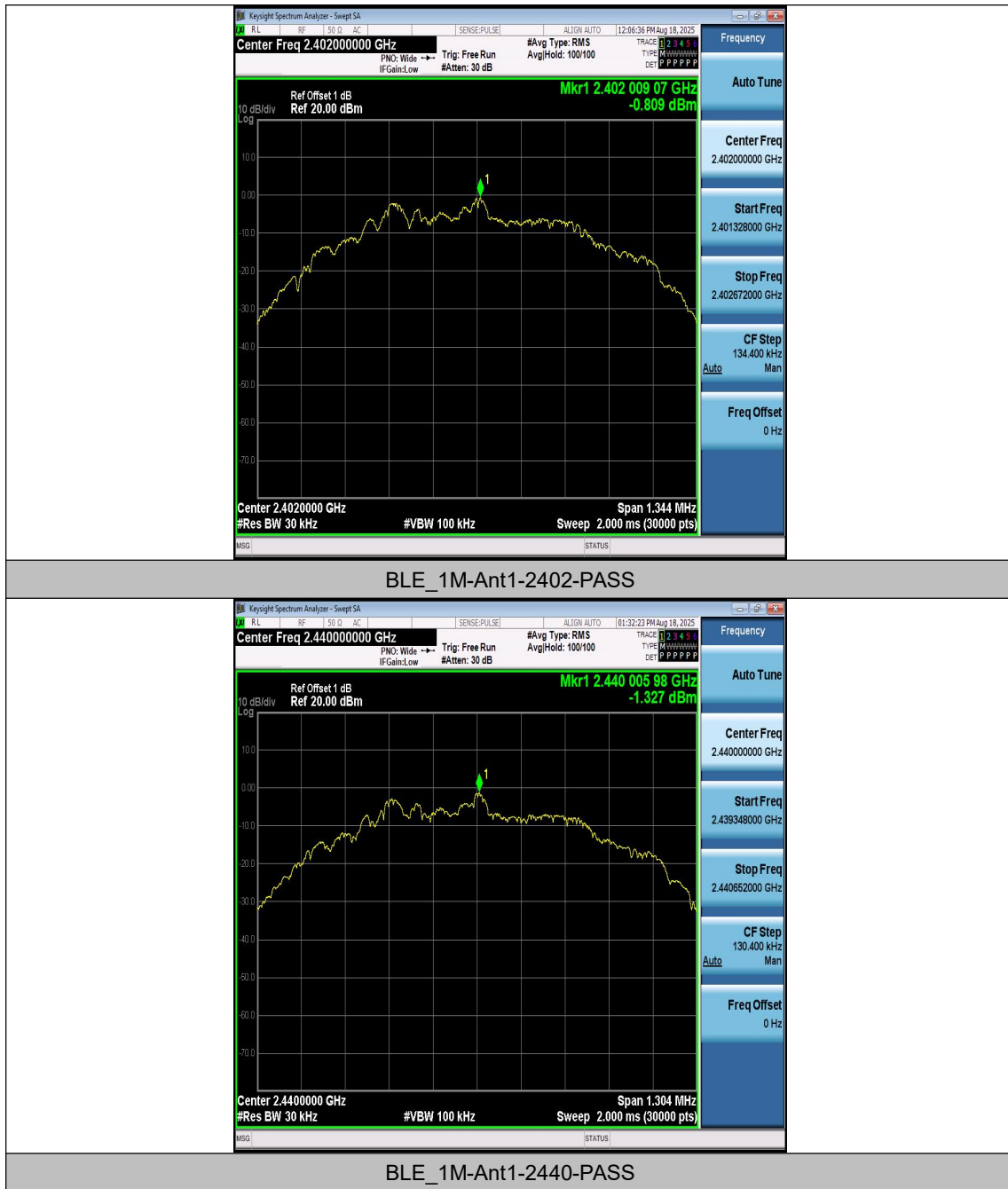
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-0.81	-10.81	≤8.00	PASS
BLE_1M	Ant1	2440	-1.33	-11.33	≤8.00	PASS
BLE_1M	Ant1	2480	-2.40	-12.4	≤8.00	PASS

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

Test Graphs



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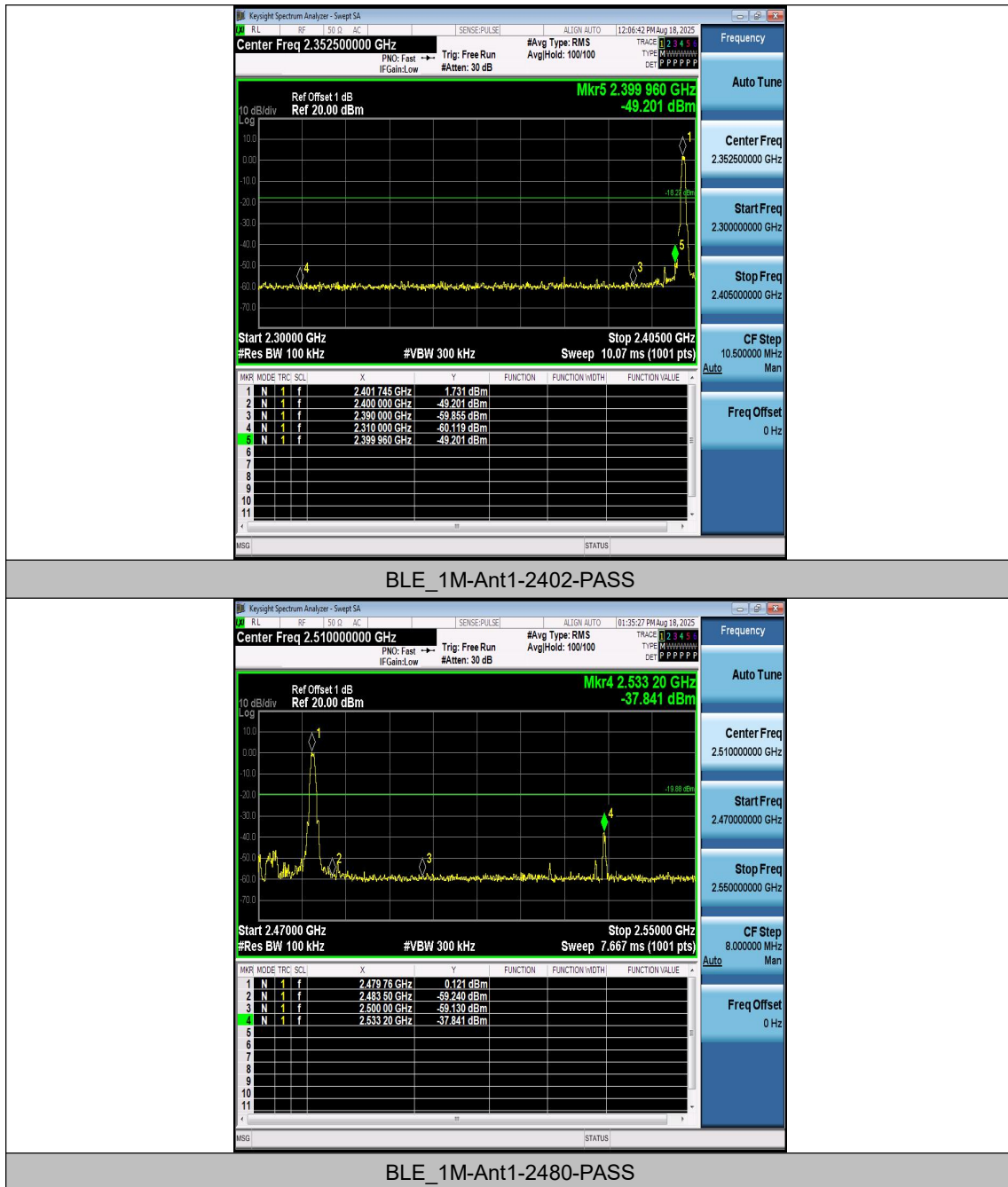
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.73	-49.2	≤-18.27	PASS
BLE_1M	Ant1	High	2480	0.12	-37.84	≤-19.88	PASS

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

Test Graphs



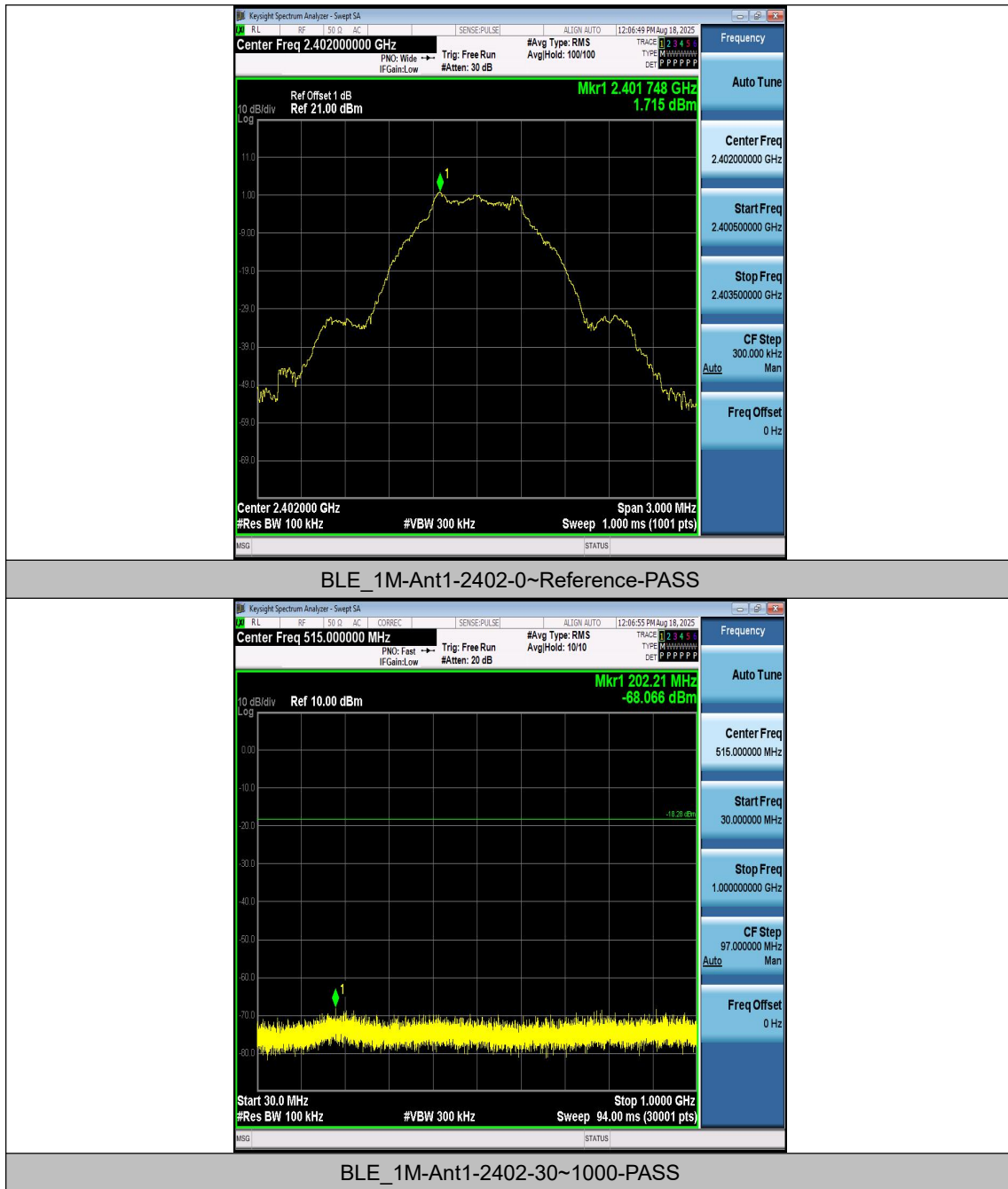
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	1.72	1.72	---	PASS
BLE_1M	Ant1	2402	30~1000	1.72	-68.07	≤-18.28	PASS
BLE_1M	Ant1	2402	1000~26500	1.72	-26.38	≤-18.28	PASS
BLE_1M	Ant1	2440	0~Reference	0.90	0.90	---	PASS
BLE_1M	Ant1	2440	30~1000	0.90	-68.03	≤-19.1	PASS
BLE_1M	Ant1	2440	1000~26500	0.90	-26.96	≤-19.1	PASS
BLE_1M	Ant1	2480	0~Reference	0.11	0.11	---	PASS
BLE_1M	Ant1	2480	30~1000	0.11	-68.51	≤-19.89	PASS
BLE_1M	Ant1	2480	1000~26500	0.11	-26.92	≤-19.89	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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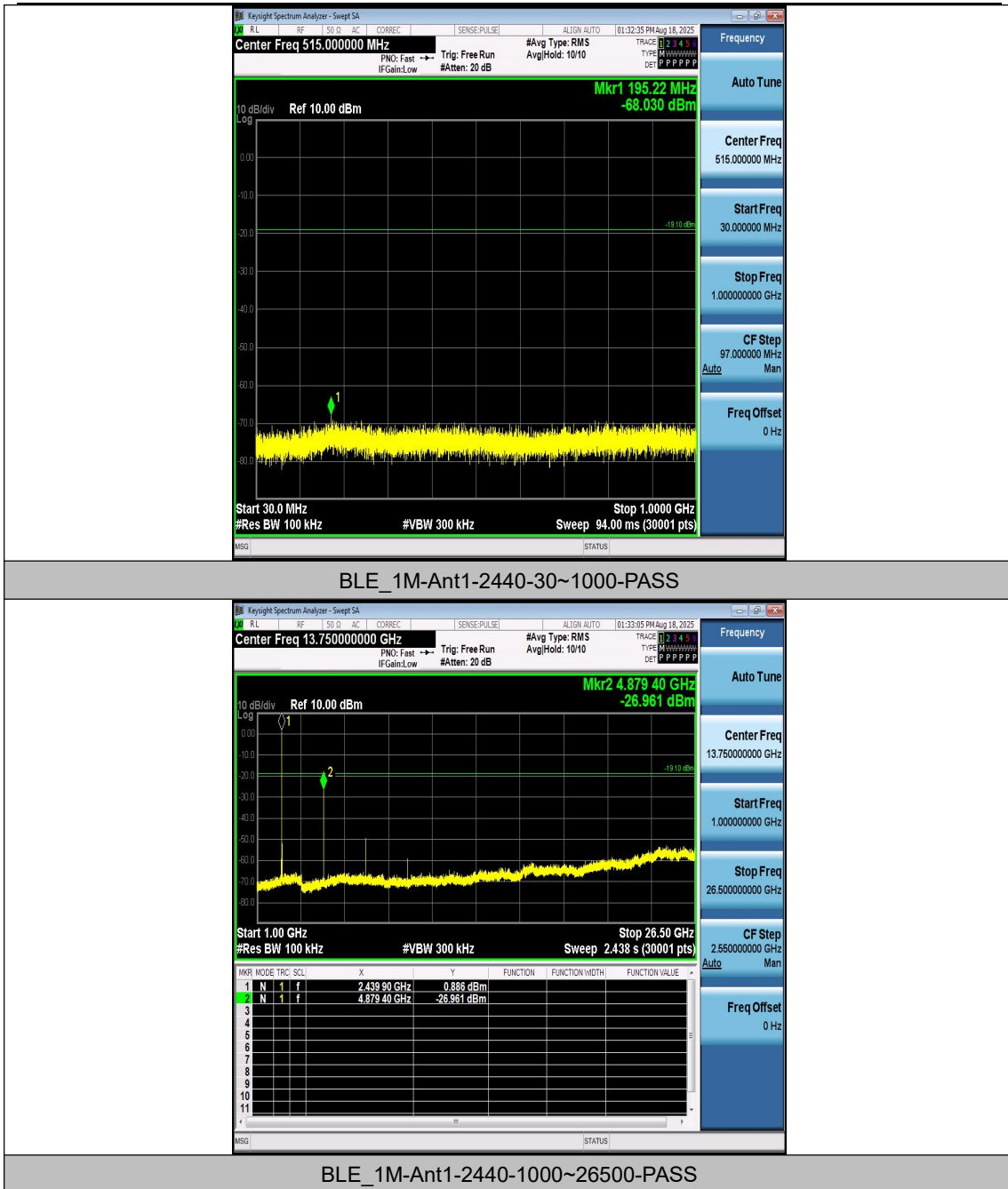
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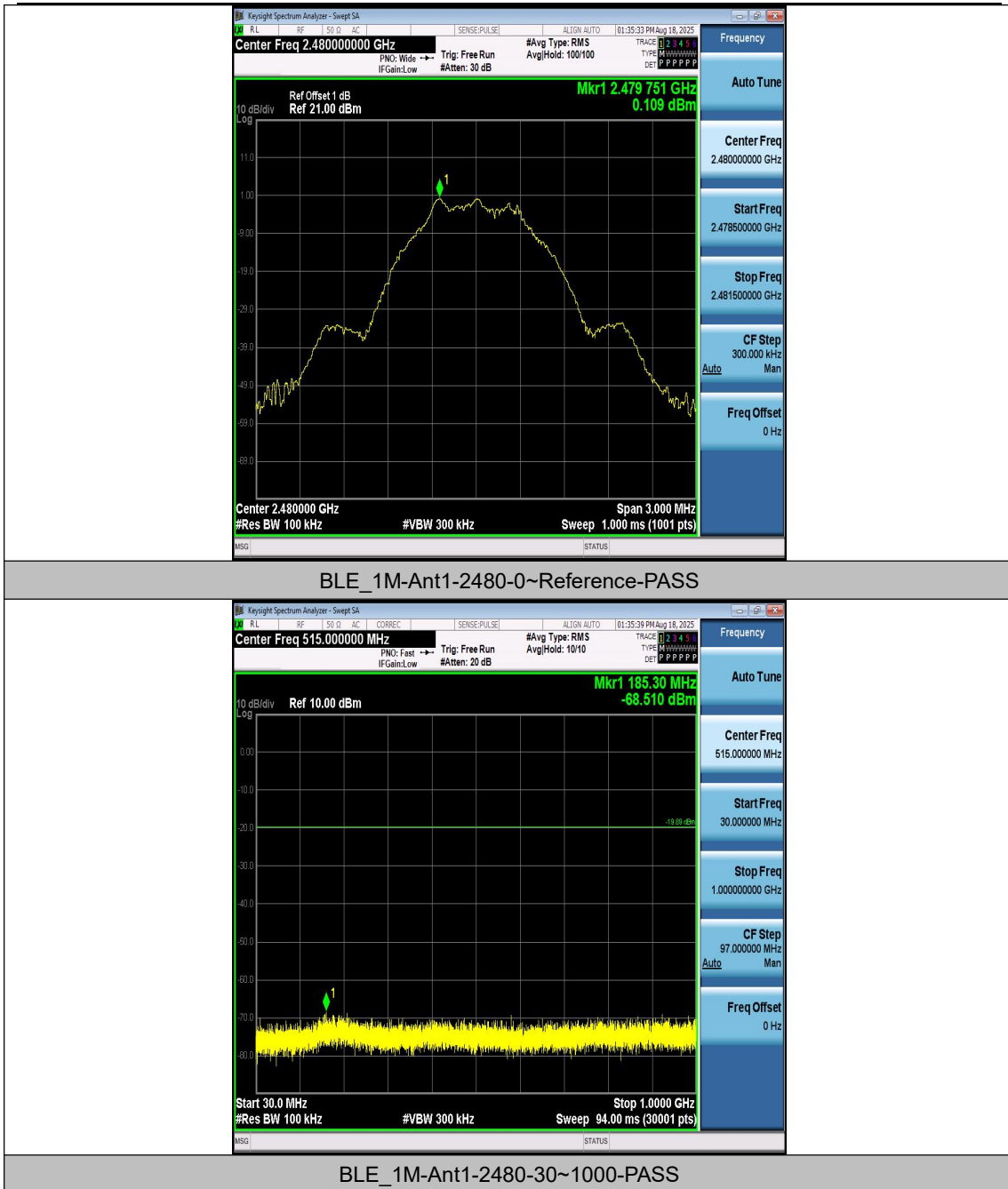
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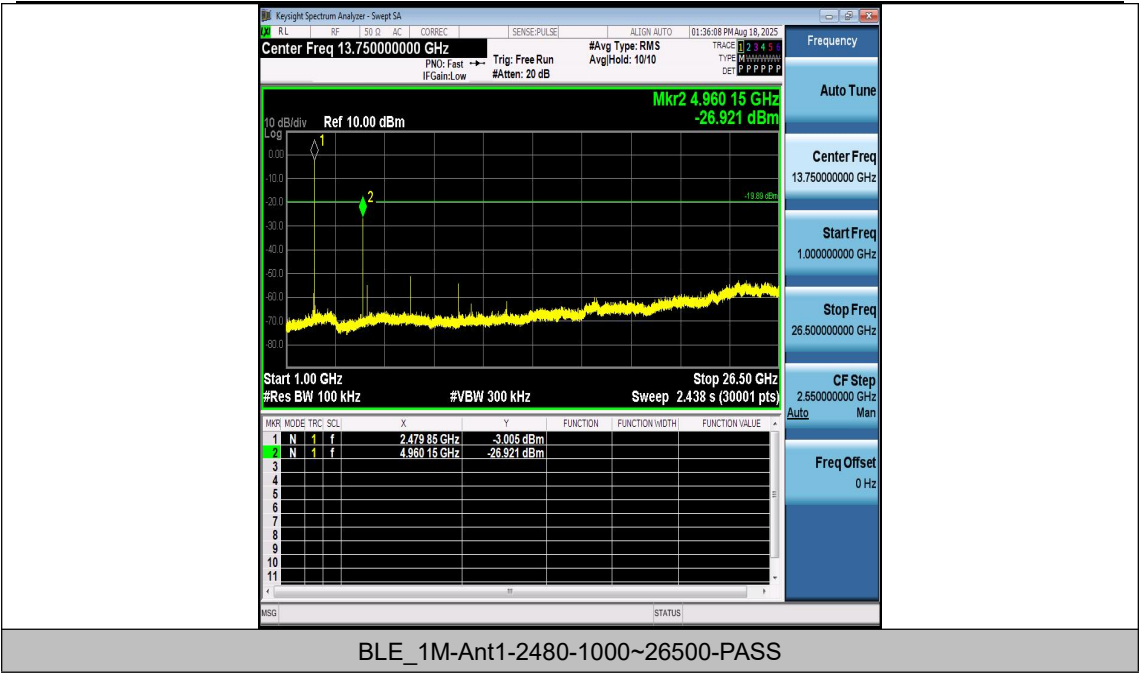
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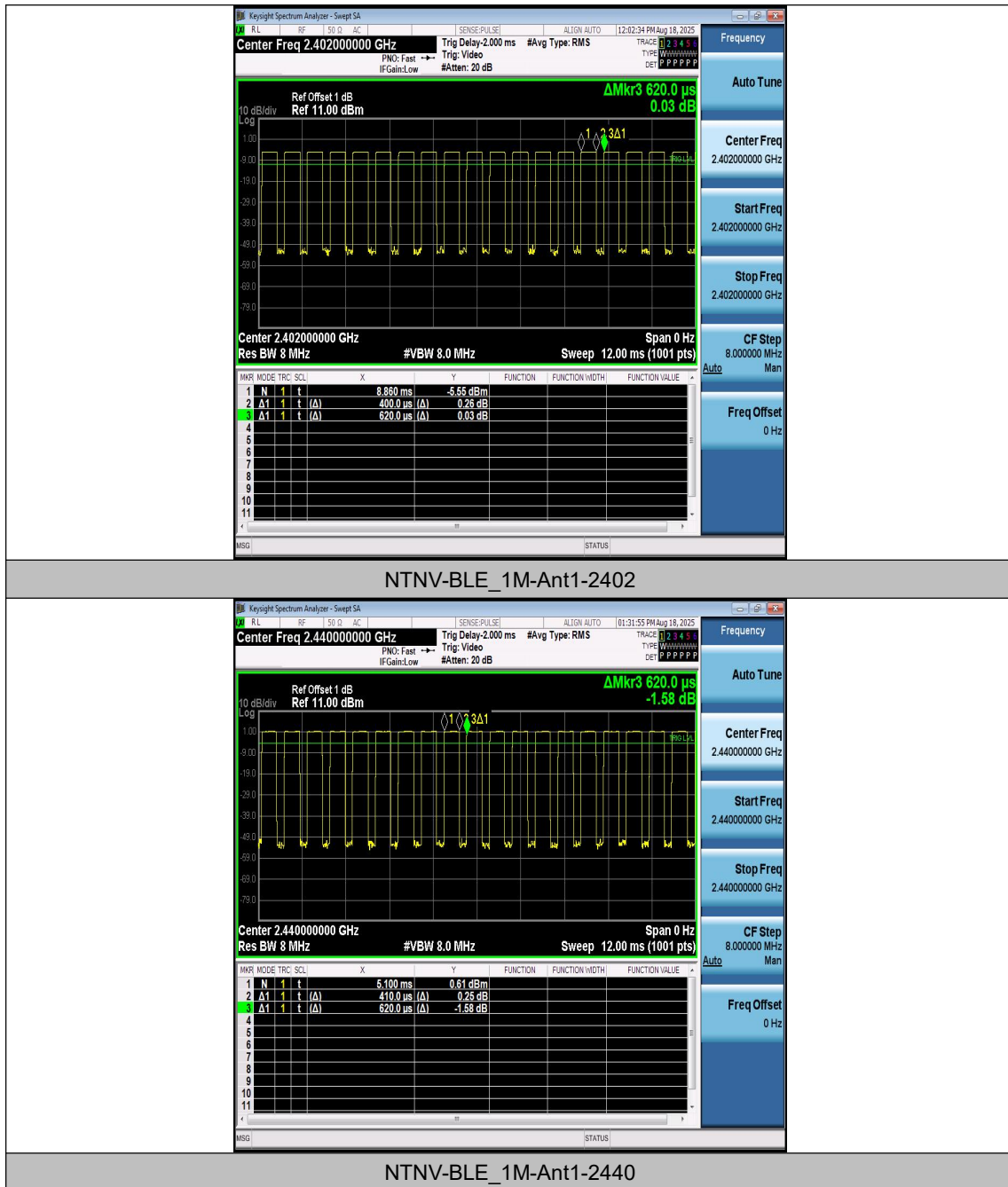
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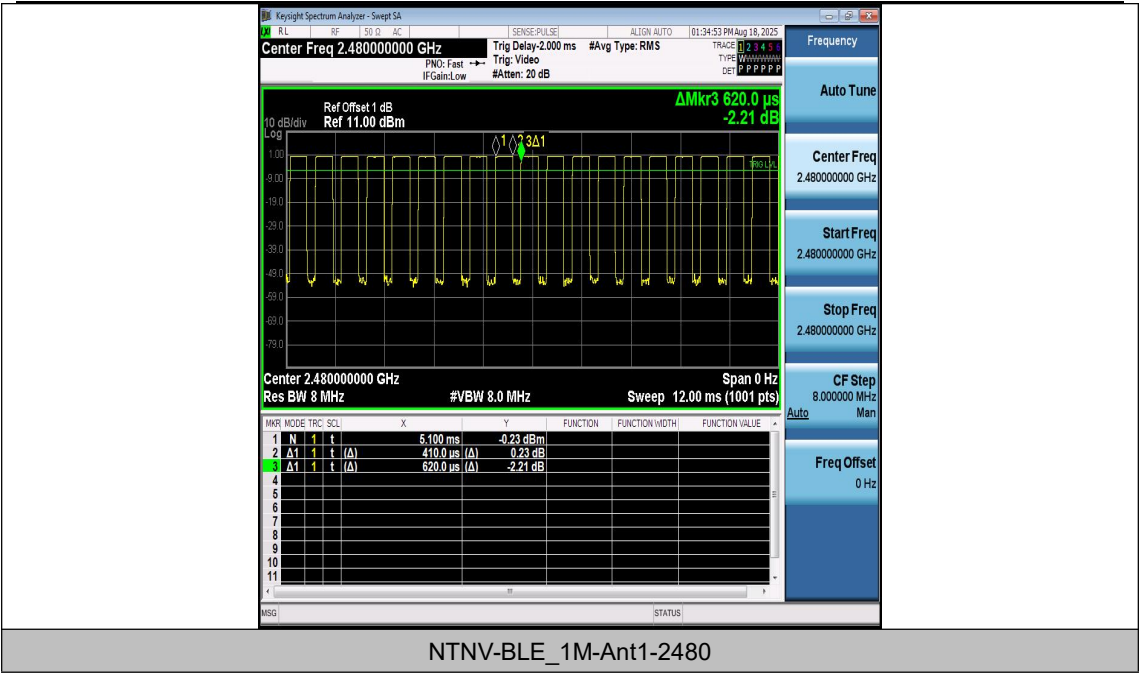
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.40	0.62	64.52	1.90
BLE_1M	Ant1	2440	0.41	0.62	66.13	1.80
BLE_1M	Ant1	2480	0.41	0.62	66.13	1.80

Test Graphs





NTNV-BLE_1M-Ant1-2480

---End---