

Appendix Test Data

Report No.:	1812C50222912502	Test Sample No.:	1-2-2
Start Test Date:	2025-05-19	Finish Test Date:	2025-05-19
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	27°C	Relative Humidity:	52%
Pressure:	101kPa		

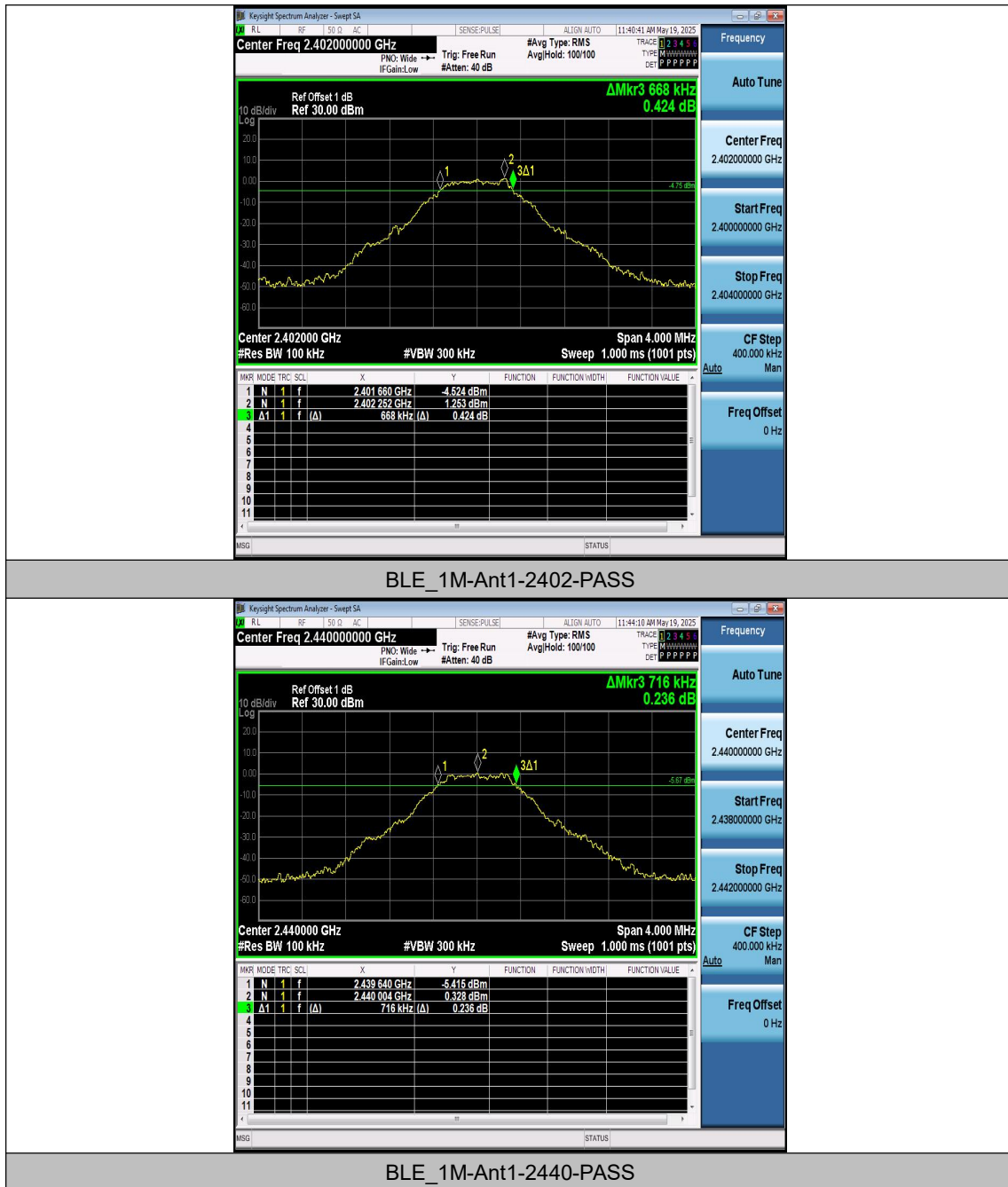
Appendix A: 6dB Bandwidth

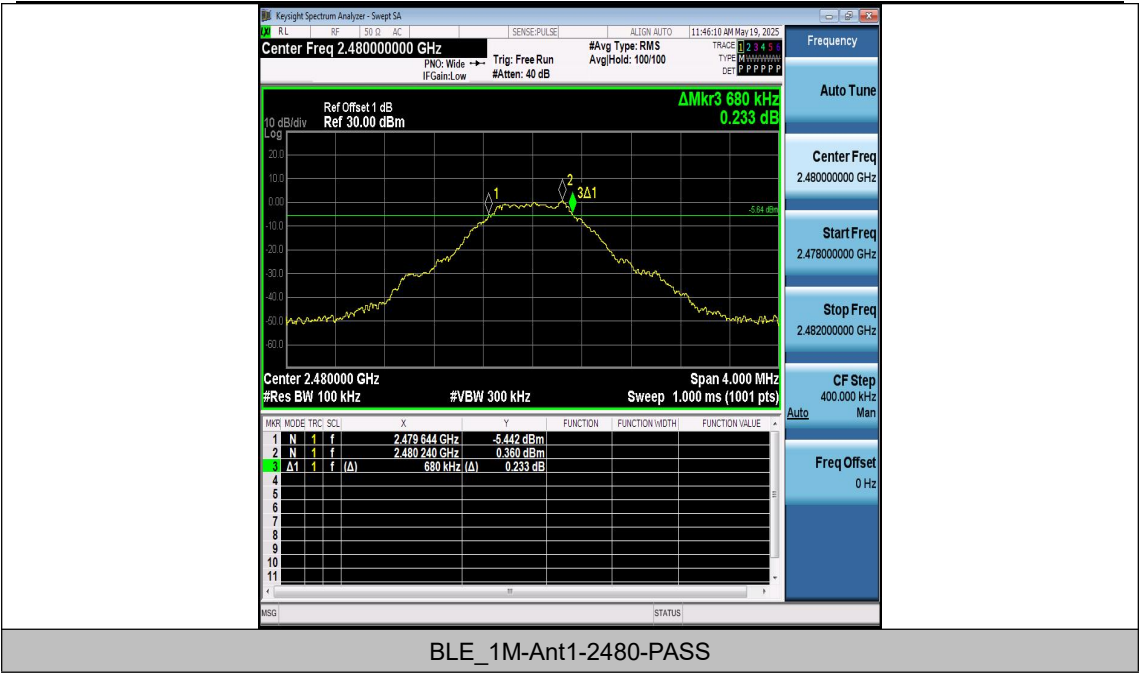
Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.660	2402.328	0.5	PASS
BLE_1M	Ant1	2440	0.716	2439.640	2440.356	0.5	PASS
BLE_1M	Ant1	2480	0.680	2479.644	2480.324	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	1.0935	2401.4588	2402.5523	---	---
BLE_1M	Ant1	2440	1.0864	2439.4602	2440.5466	---	---
BLE_1M	Ant1	2480	1.0801	2479.4667	2480.5468	---	---

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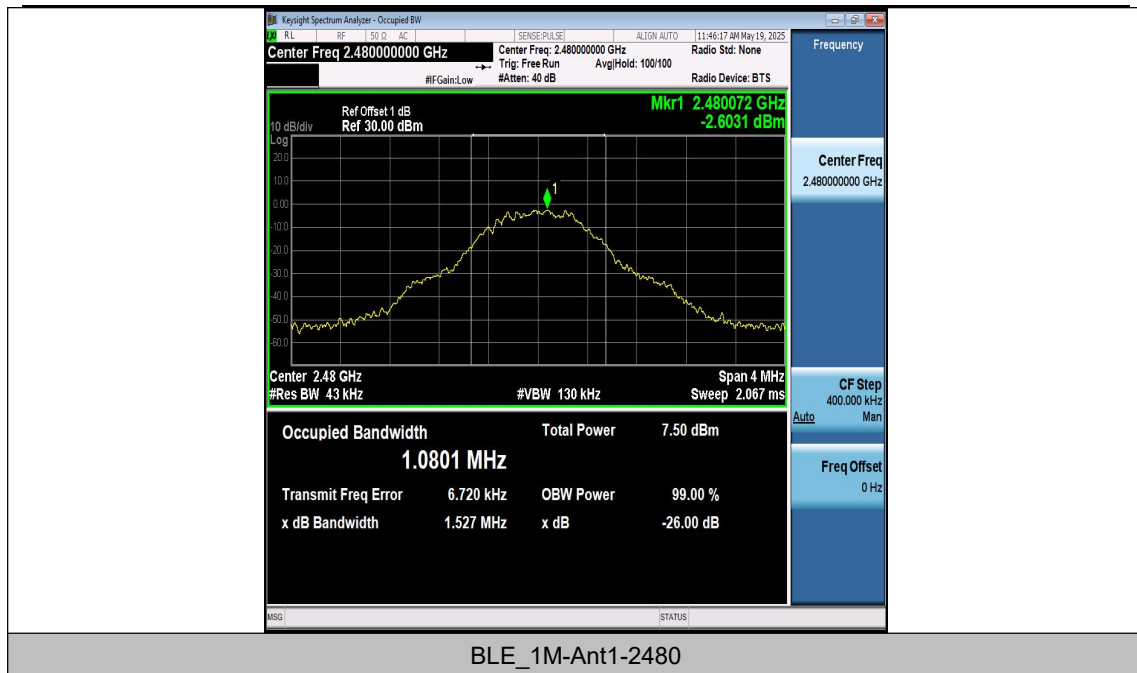
Test Graphs



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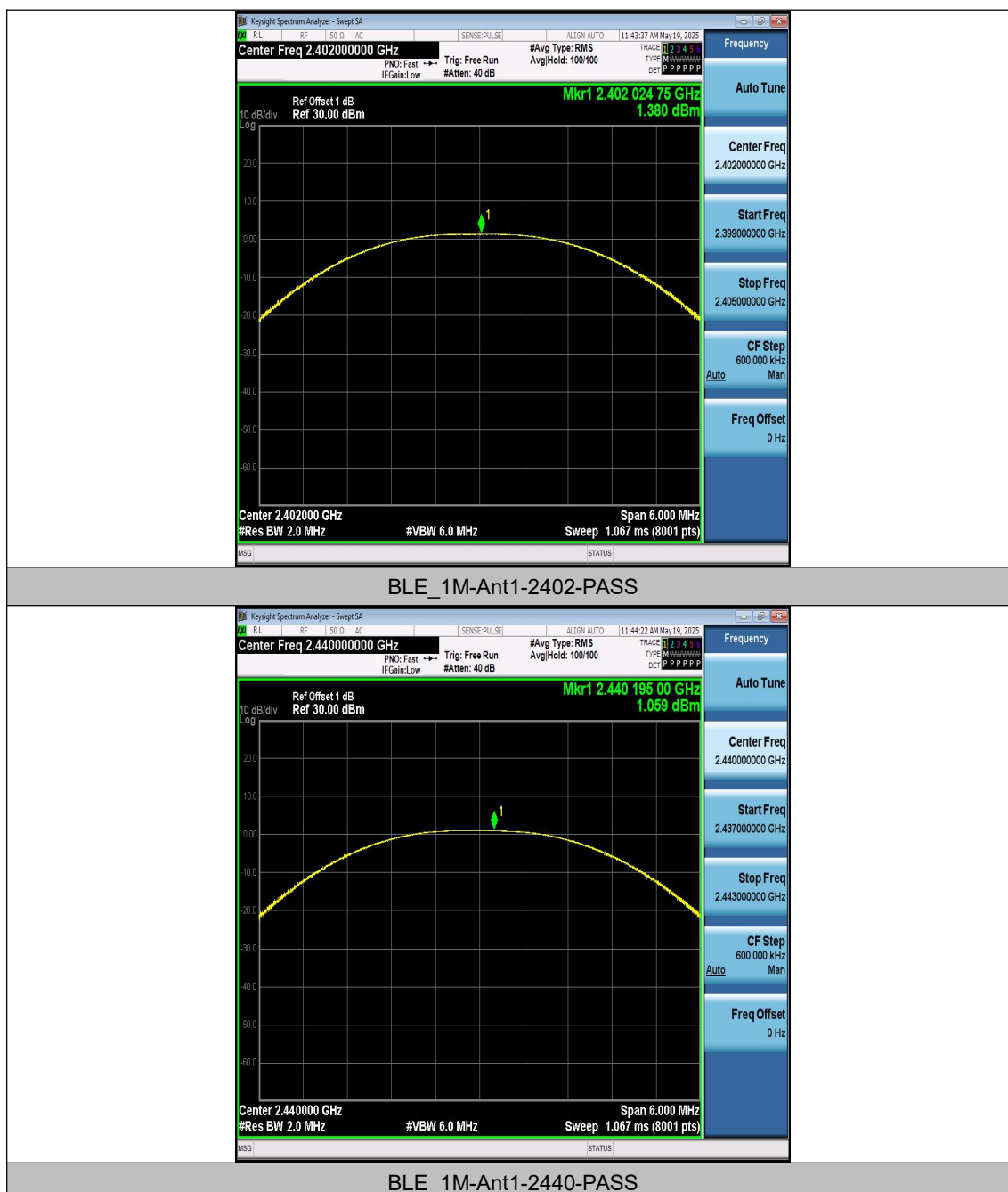
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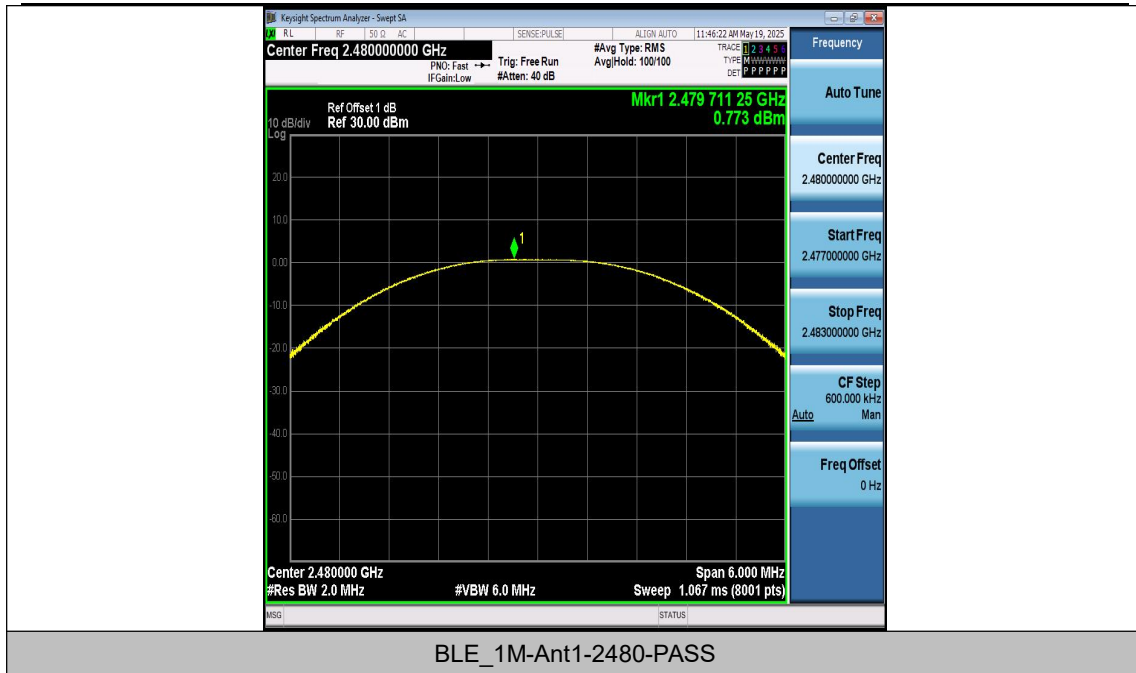
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.38	≤30	PASS
BLE_1M	Ant1	2440	1.06	≤30	PASS
BLE_1M	Ant1	2480	0.77	≤30	PASS

Test Graphs Peak





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Appendix D: Maximum power spectral density

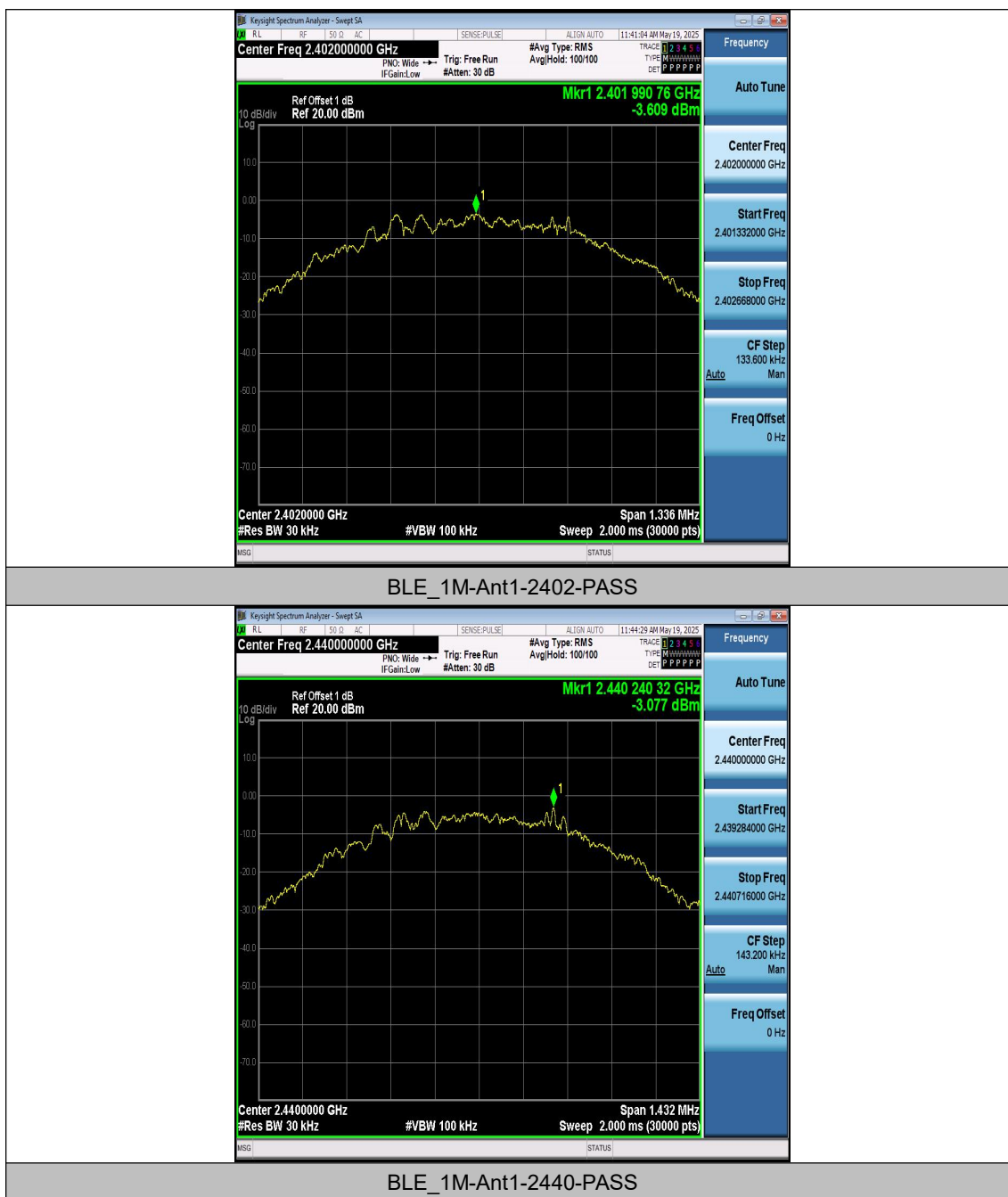
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-3.61	-13.61	≤8.00	PASS
BLE_1M	Ant1	2440	-3.08	-13.08	≤8.00	PASS
BLE_1M	Ant1	2480	-3.71	-13.71	≤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

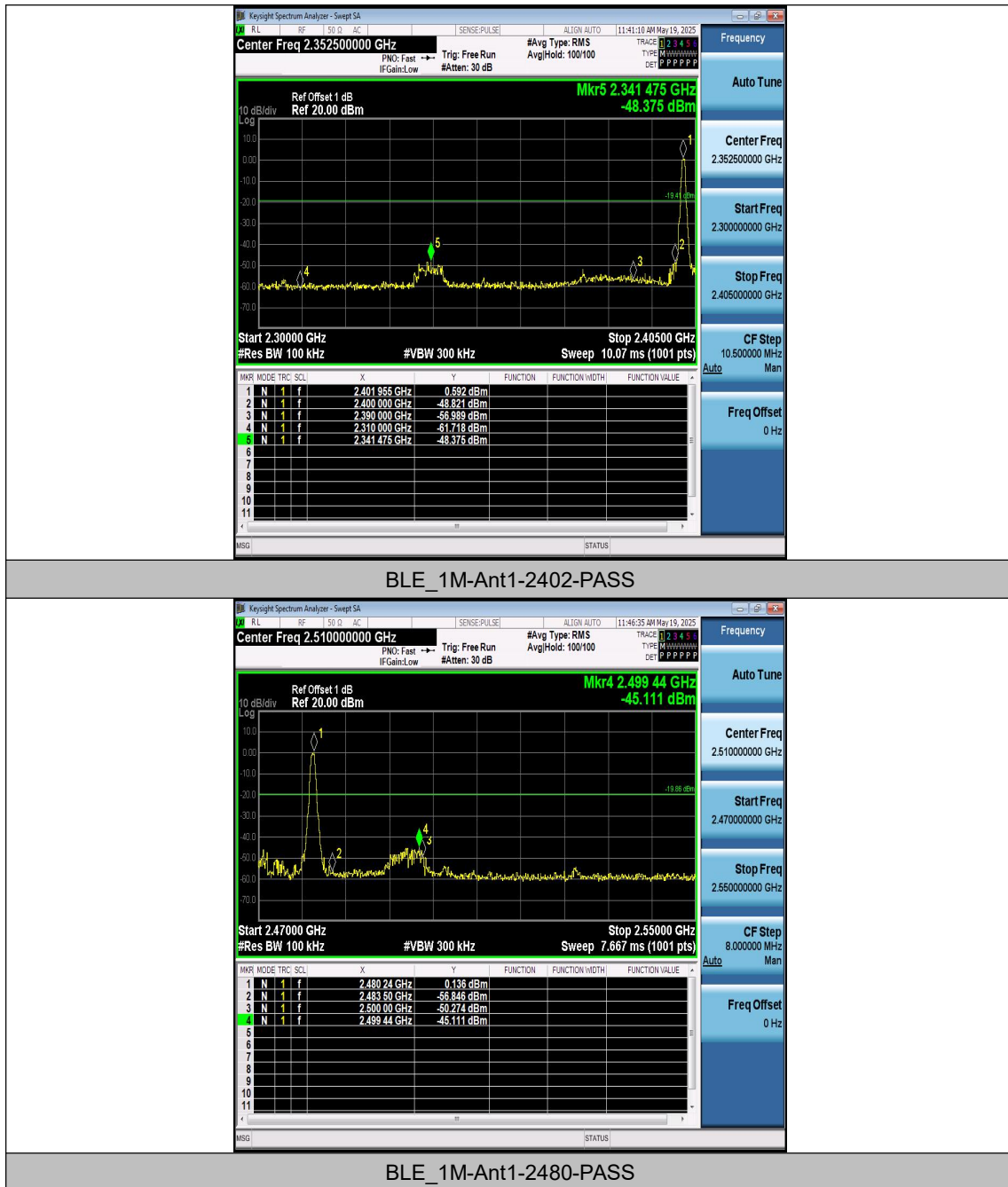
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.59	-48.38	≤-19.41	PASS
BLE_1M	Ant1	High	2480	0.14	-45.11	≤-19.86	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



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Appendix F: Conducted Spurious Emission

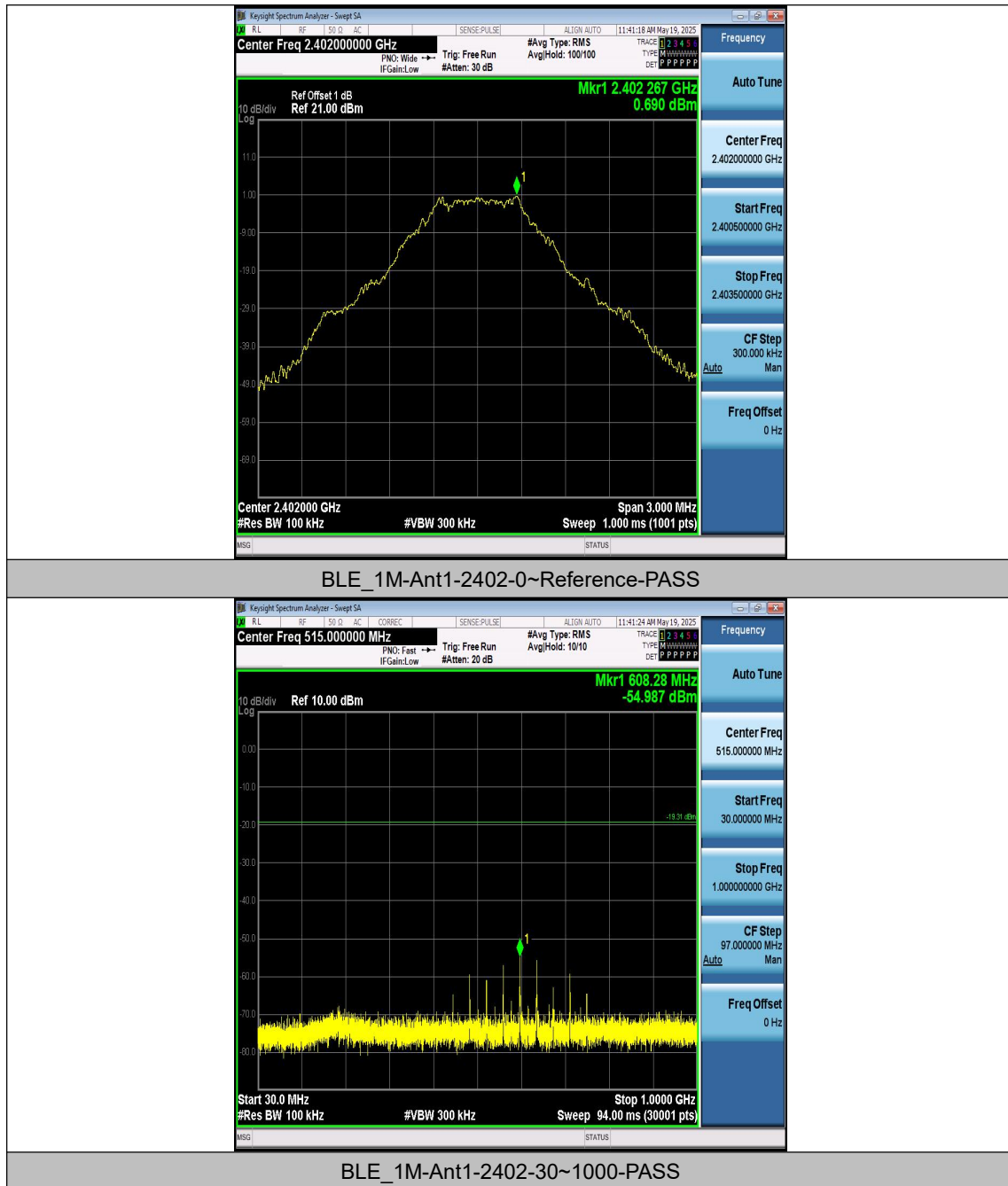
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.69	0.69	---	PASS
BLE_1M	Ant1	2402	30~1000	0.69	-54.99	≤-19.31	PASS
BLE_1M	Ant1	2402	1000~26500	0.69	-32.25	≤-19.31	PASS
BLE_1M	Ant1	2440	0~Reference	0.69	0.69	---	PASS
BLE_1M	Ant1	2440	30~1000	0.69	-55.84	≤-19.31	PASS
BLE_1M	Ant1	2440	1000~26500	0.69	-43.64	≤-19.31	PASS
BLE_1M	Ant1	2480	0~Reference	0.51	0.51	---	PASS
BLE_1M	Ant1	2480	30~1000	0.51	-56.42	≤-19.49	PASS
BLE_1M	Ant1	2480	1000~26500	0.51	-42.55	≤-19.49	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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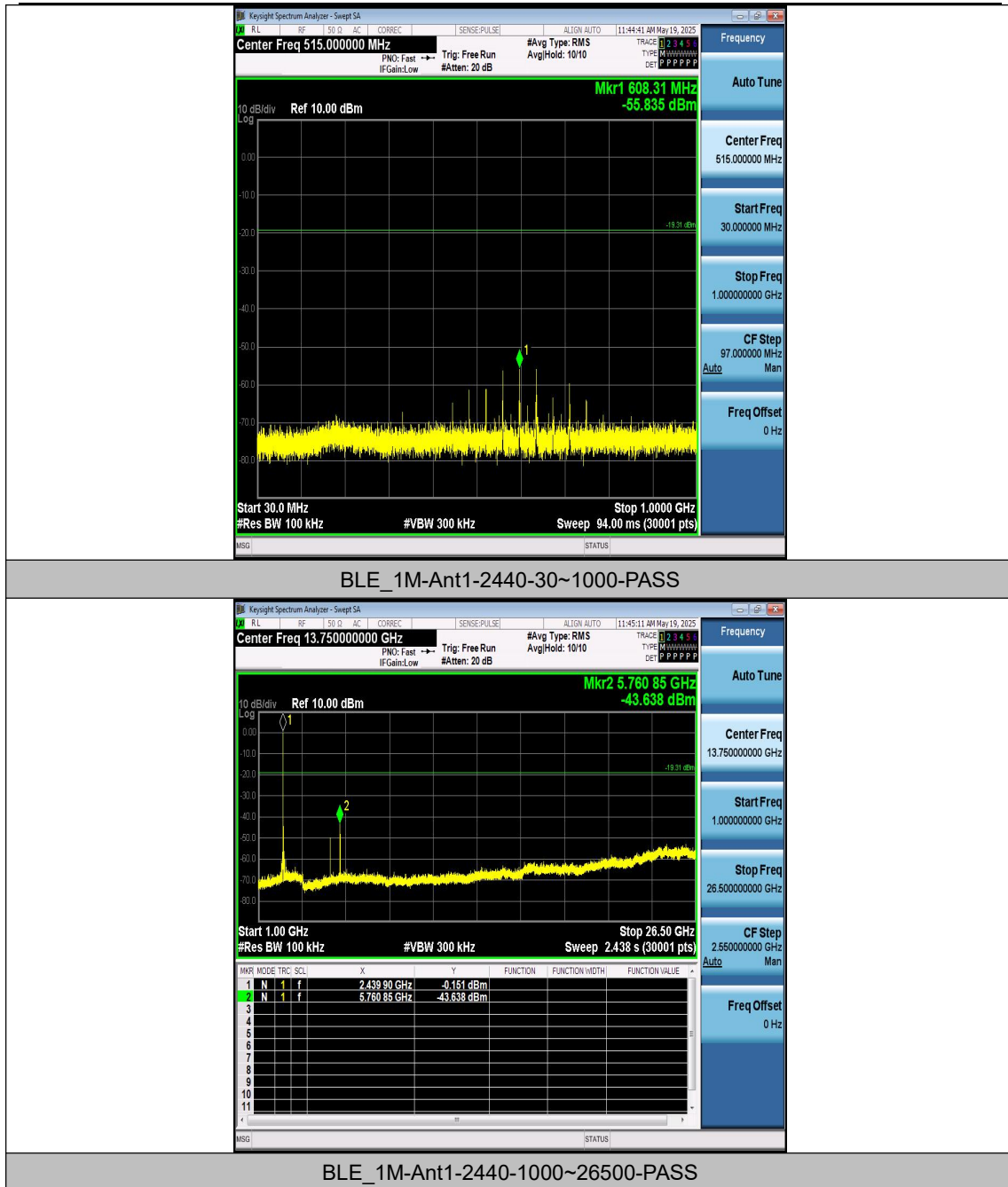


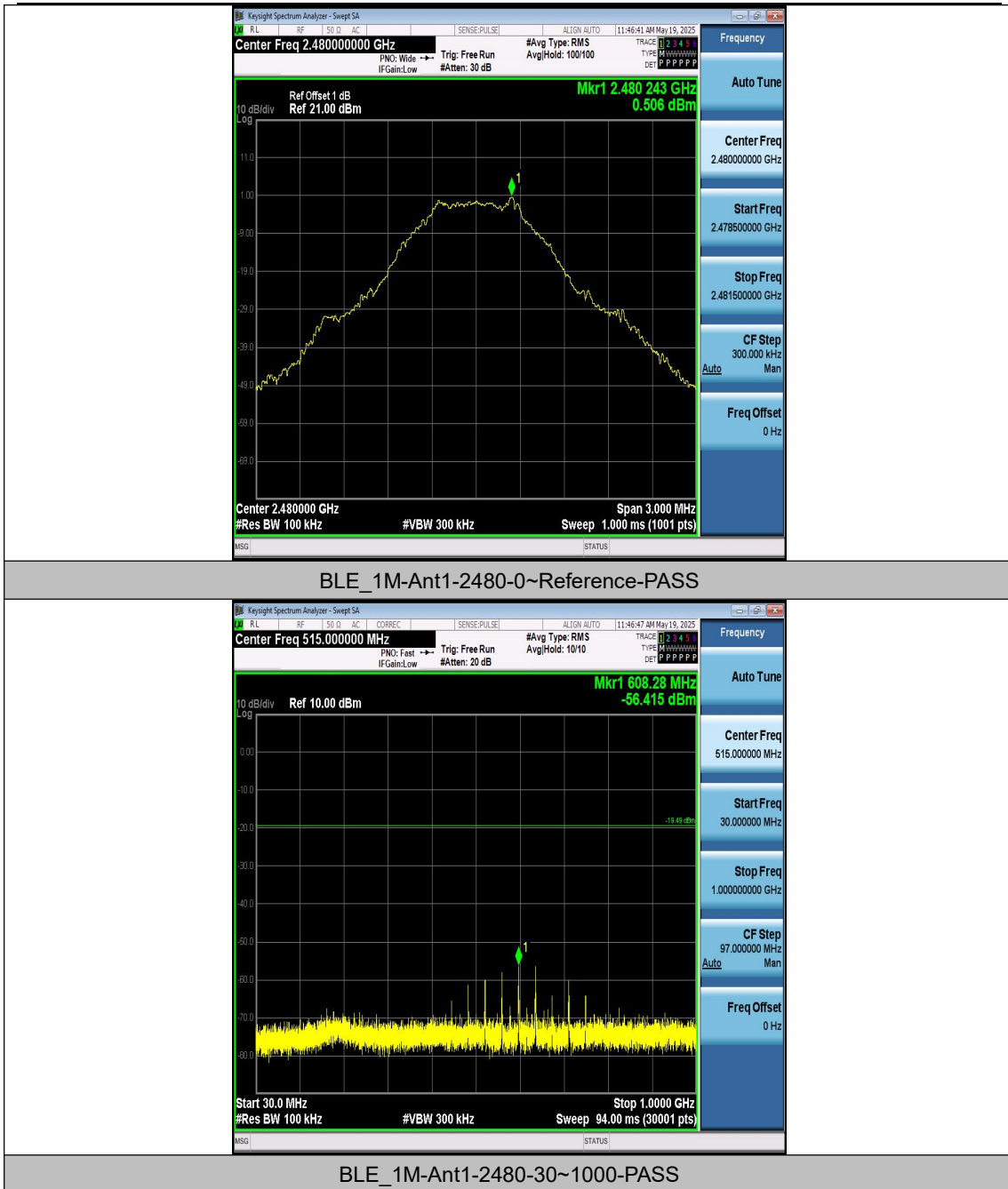
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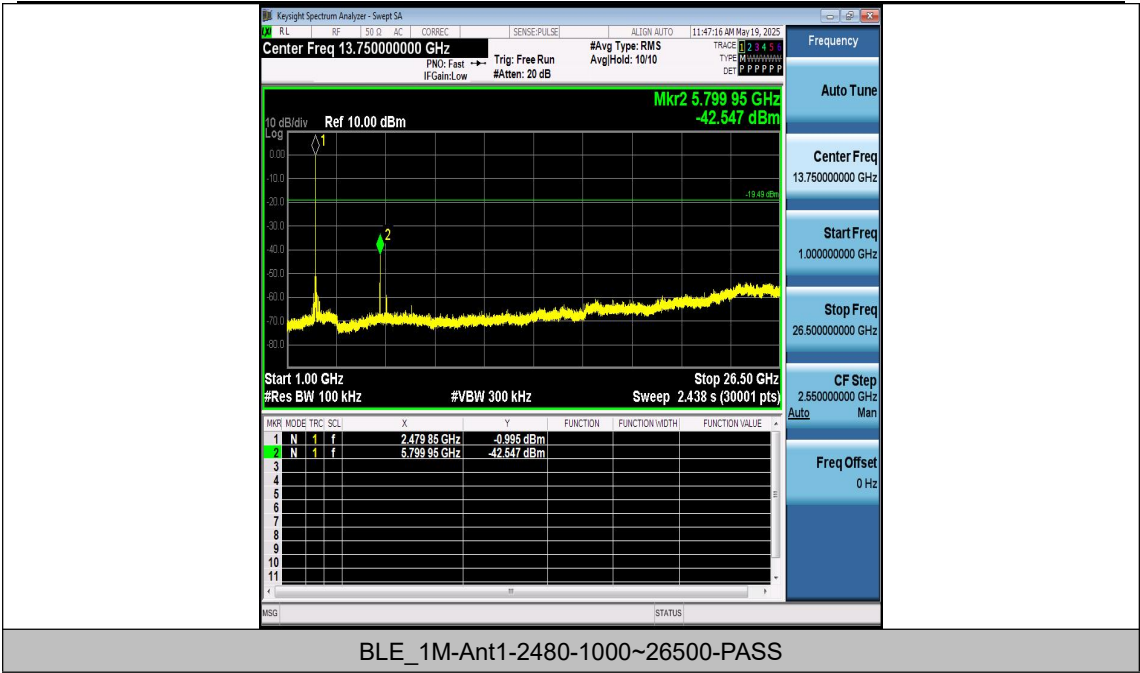
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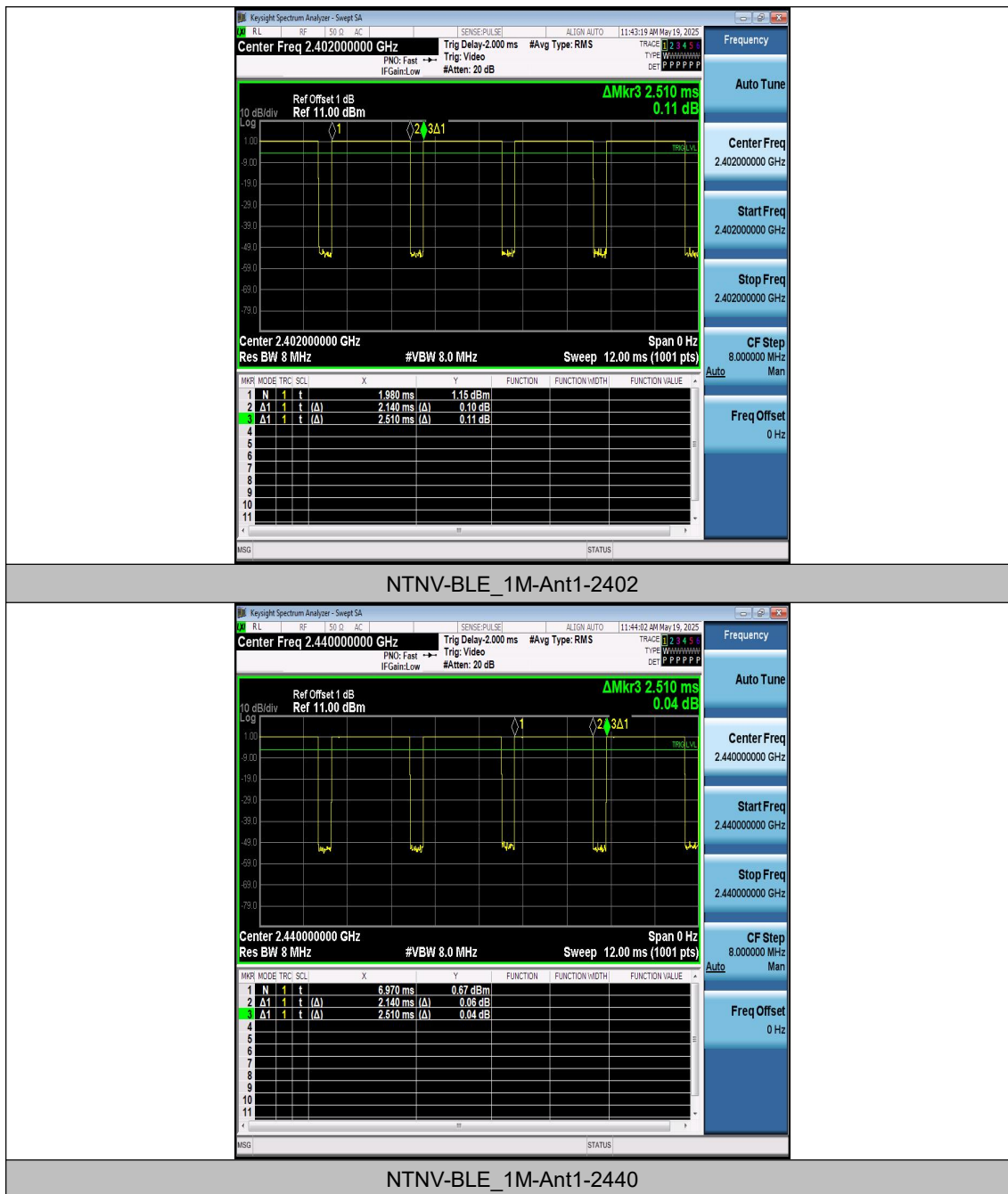
Appendix G: Duty Cycle

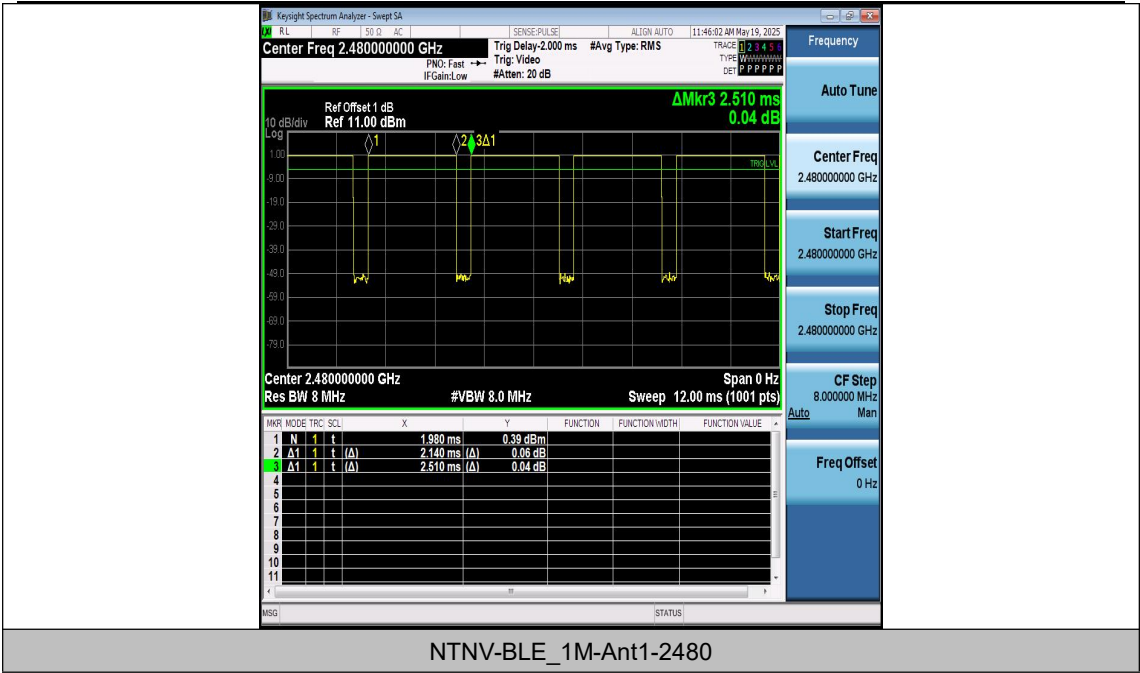
Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.14	2.51	85.26	0.69
BLE_1M	Ant1	2440	2.14	2.51	85.26	0.69
BLE_1M	Ant1	2480	2.14	2.51	85.26	0.69



Test Graphs





---End---