

Appendix Test Data

Report No.:	1812C50125512502	Test Sample No.:	1-2-2
Start Test Date:	2025-05-12	Finish Test Date:	2025-05-12
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25°C	Relative Humidity:	56%
Pressure:	101kPa		

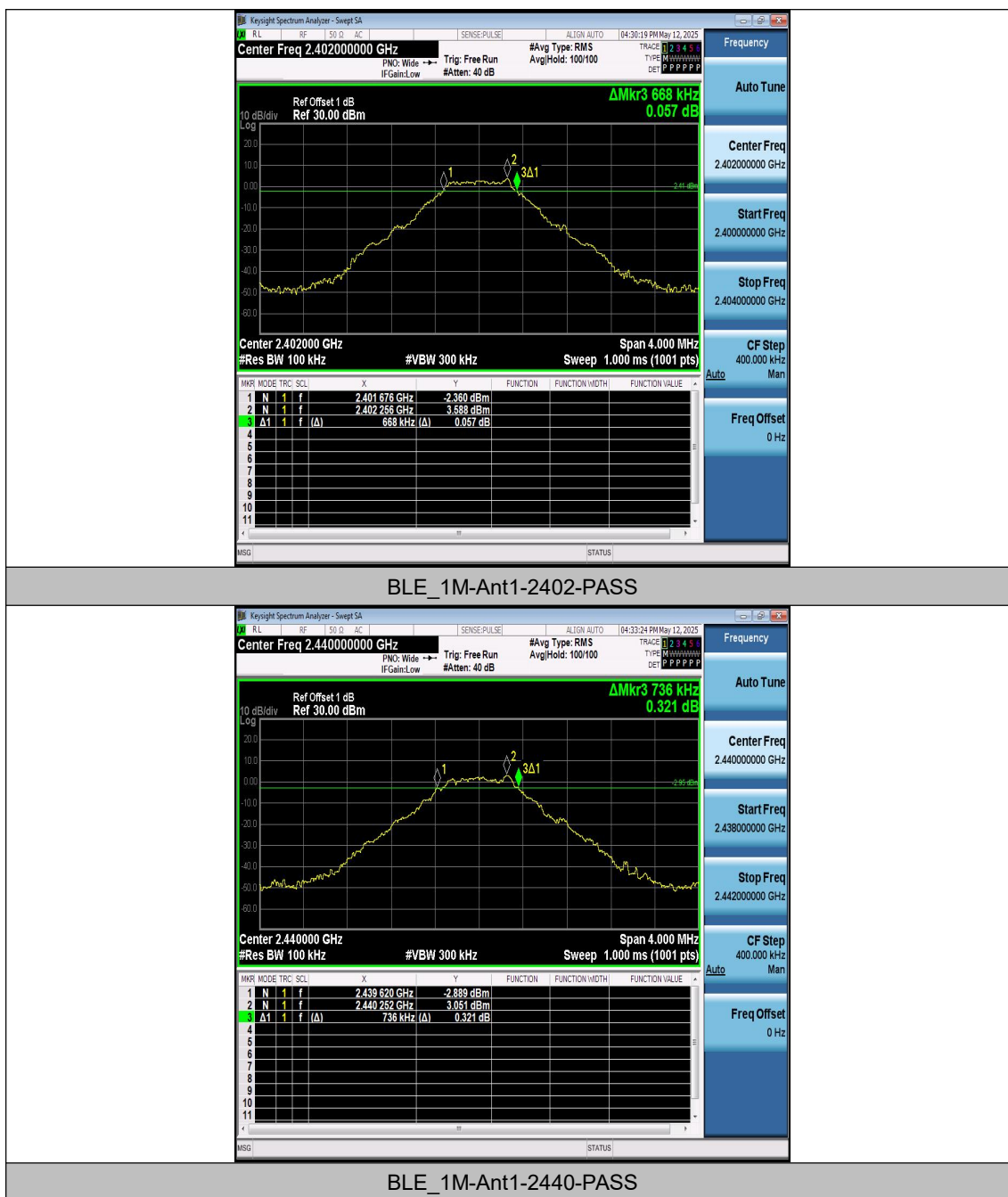
Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.676	2402.344	0.5	PASS
BLE_1M	Ant1	2440	0.736	2439.620	2440.356	0.5	PASS
BLE_1M	Ant1	2480	0.740	2479.648	2480.388	0.5	PASS



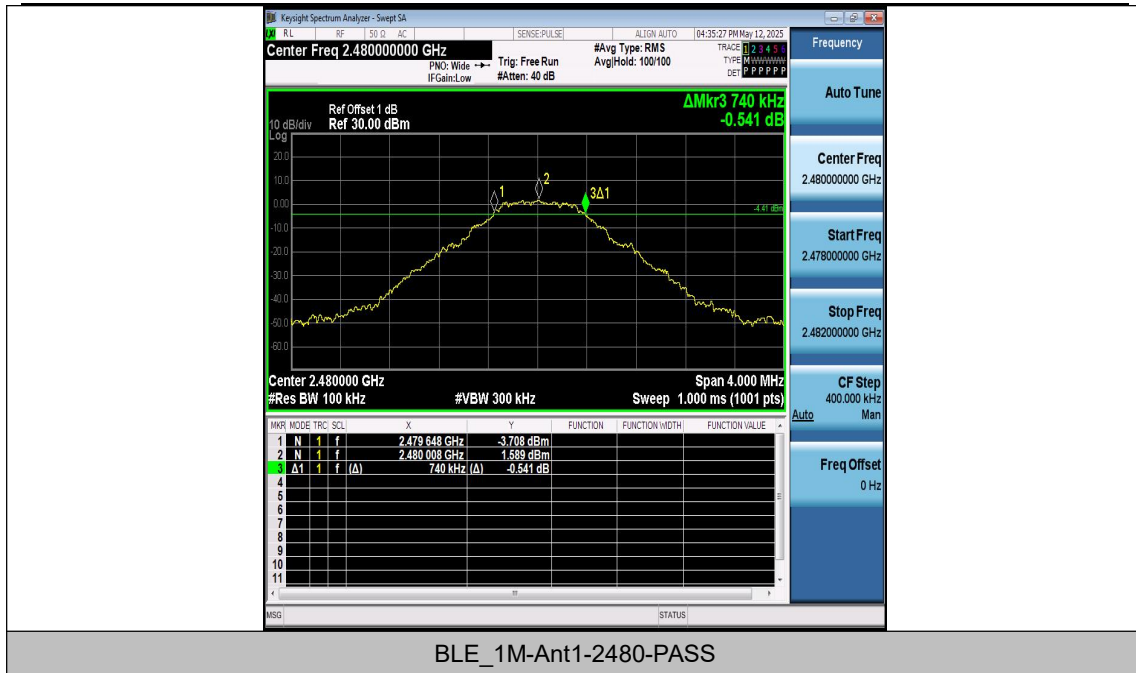
Test Graphs



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BLE_1M-Ant1-2480-PASS

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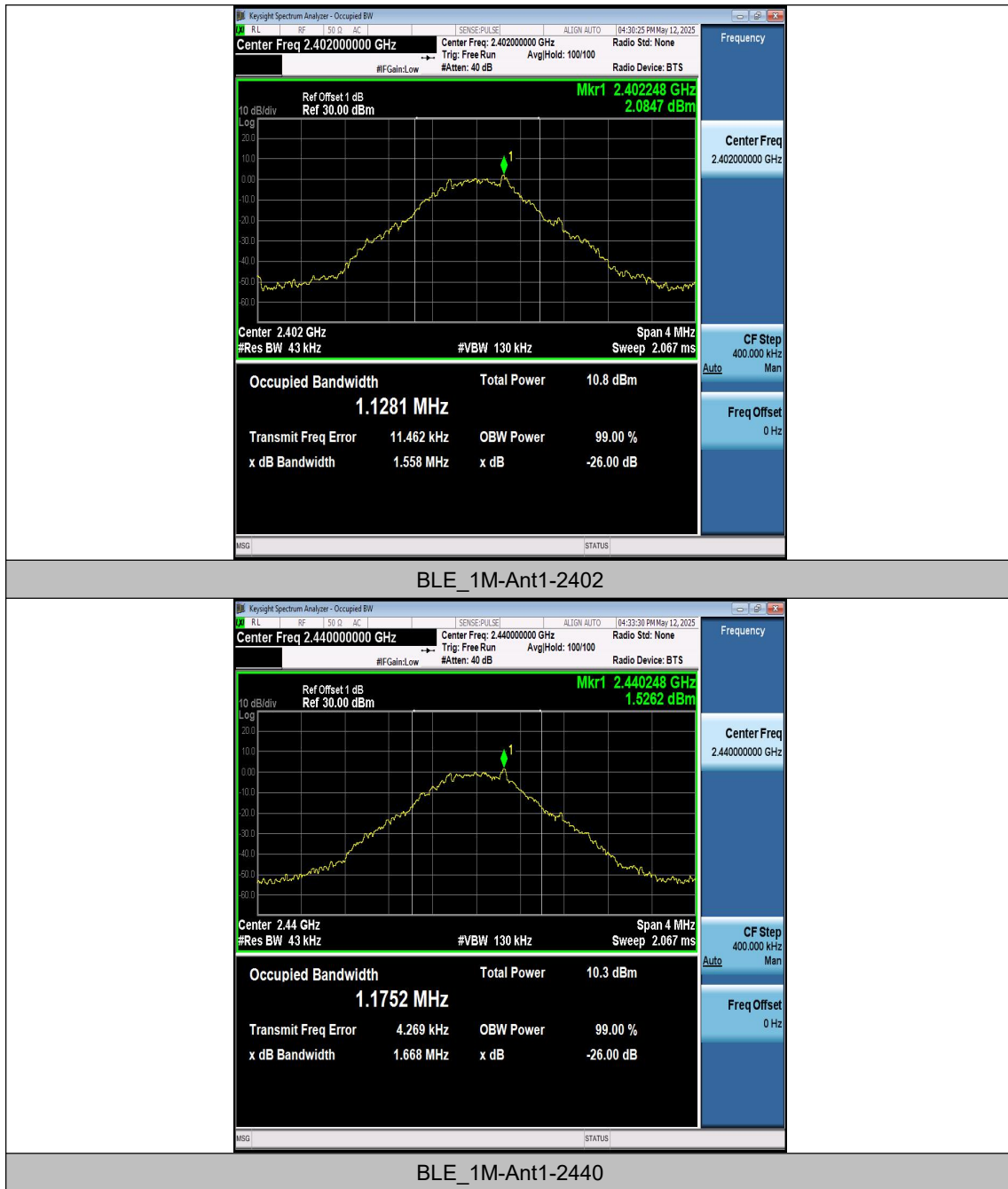
Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.1281	2401.4474	2402.5755	---	---
BLE_1M	Ant1	2440	1.1752	2439.4167	2440.5919	---	---
BLE_1M	Ant1	2480	1.2421	2479.3812	2480.6233	---	---



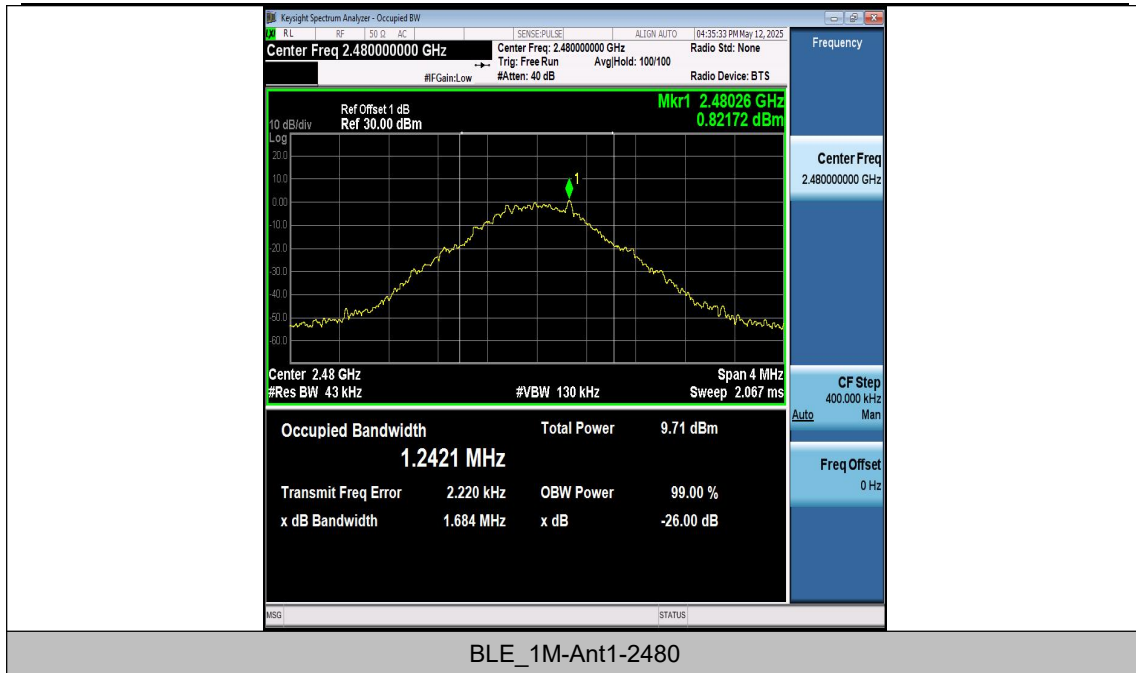
Test Graphs



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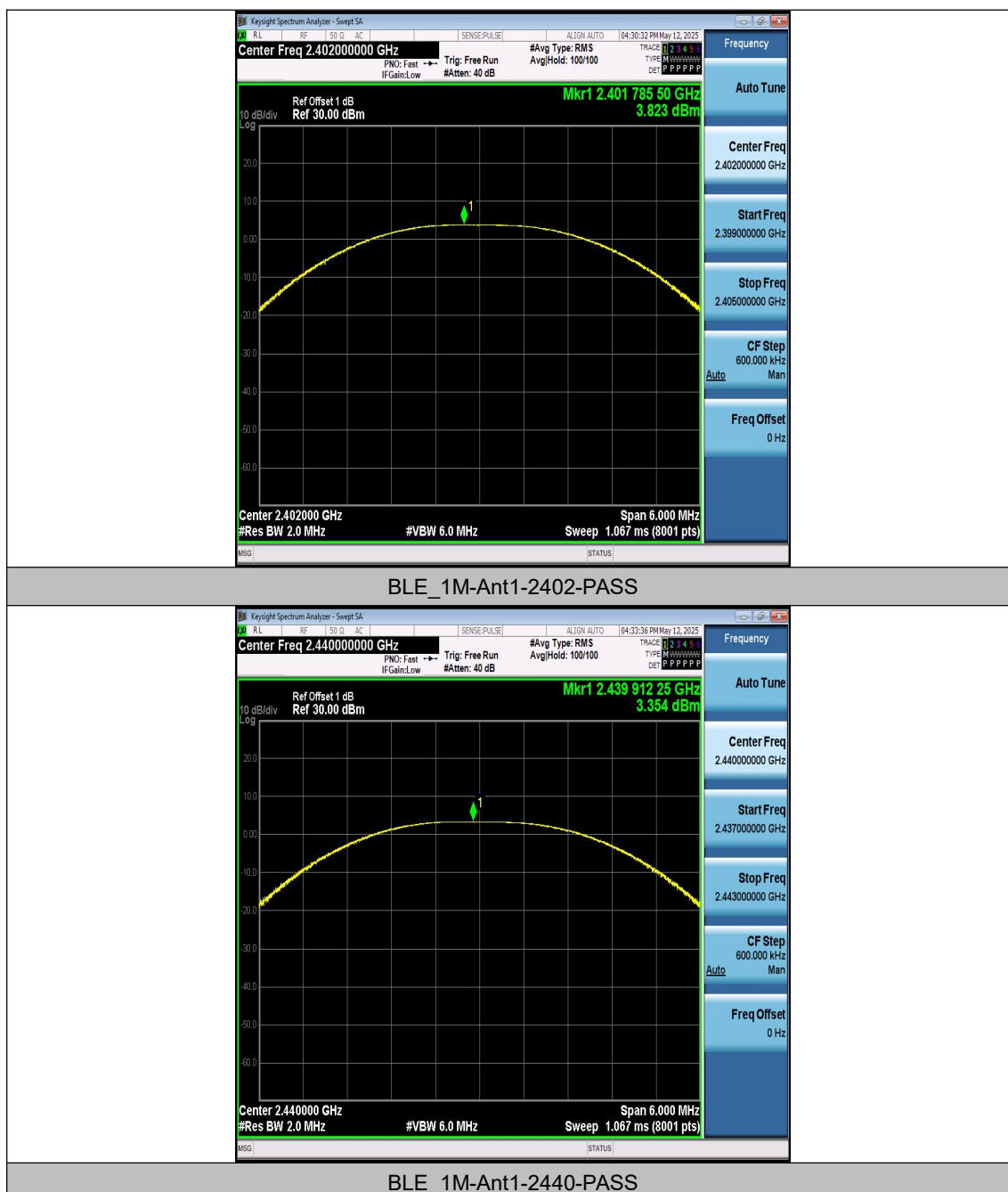
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Appendix C: Maximum conducted output power

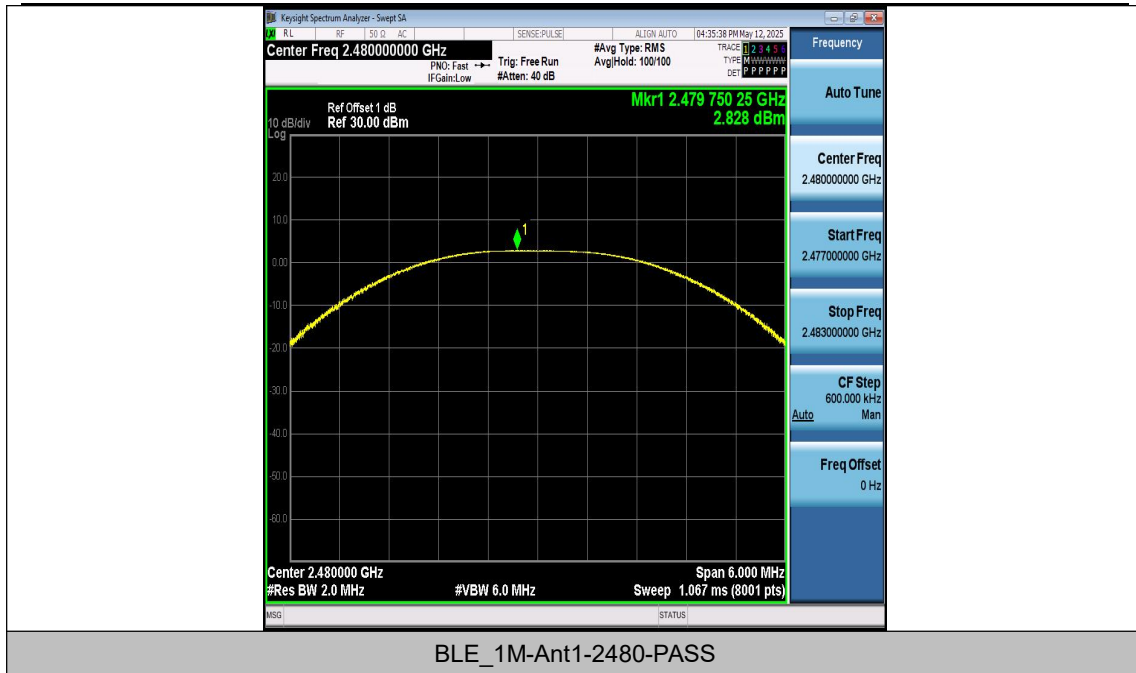
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.82	≤30	PASS
BLE_1M	Ant1	2440	3.35	≤30	PASS
BLE_1M	Ant1	2480	2.83	≤30	PASS

Test Graphs Peak



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Appendix D: Maximum power spectral density

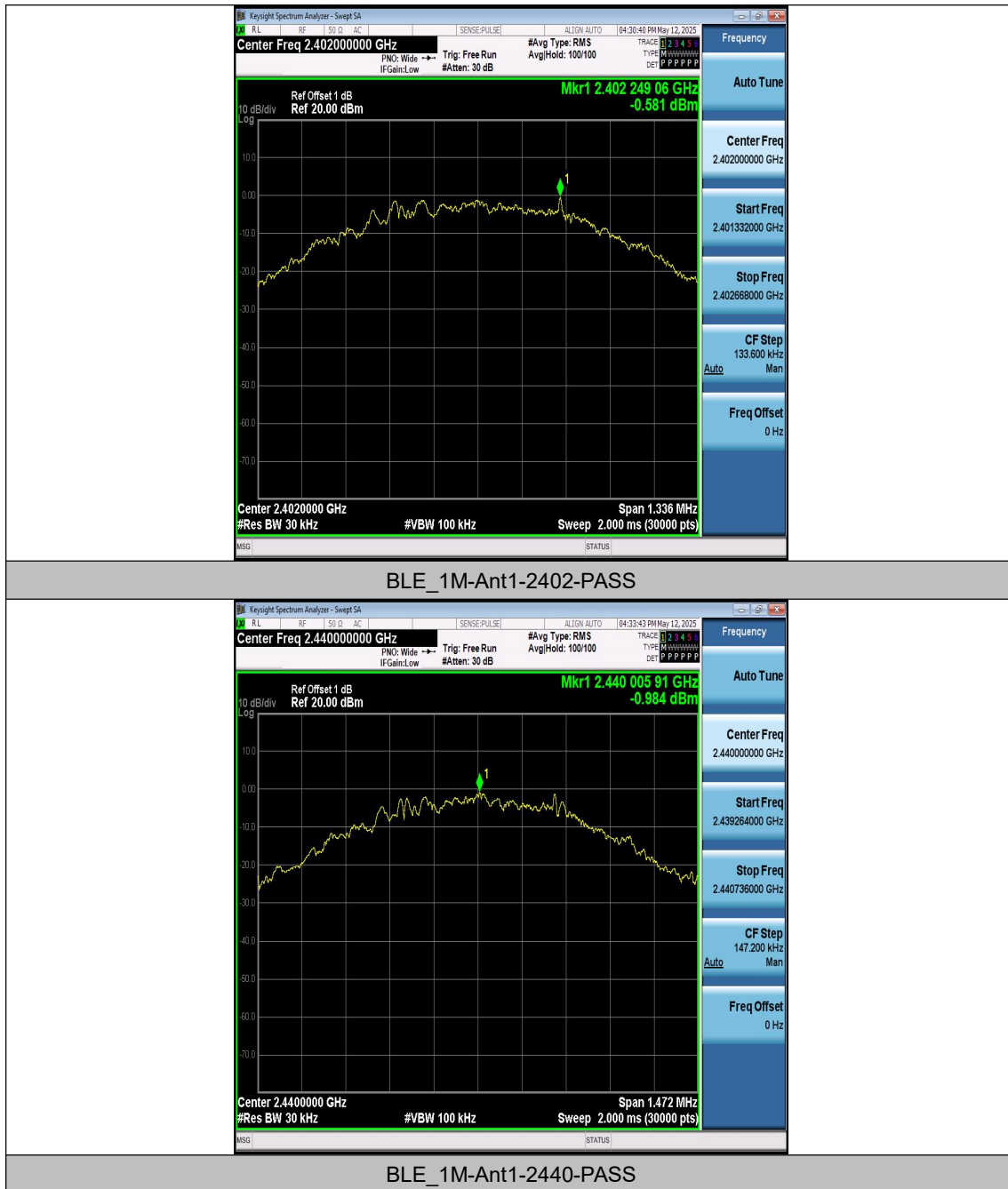
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-0.58	≤8.00	PASS
BLE_1M	Ant1	2440	-0.98	≤8.00	PASS
BLE_1M	Ant1	2480	-1.53	≤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

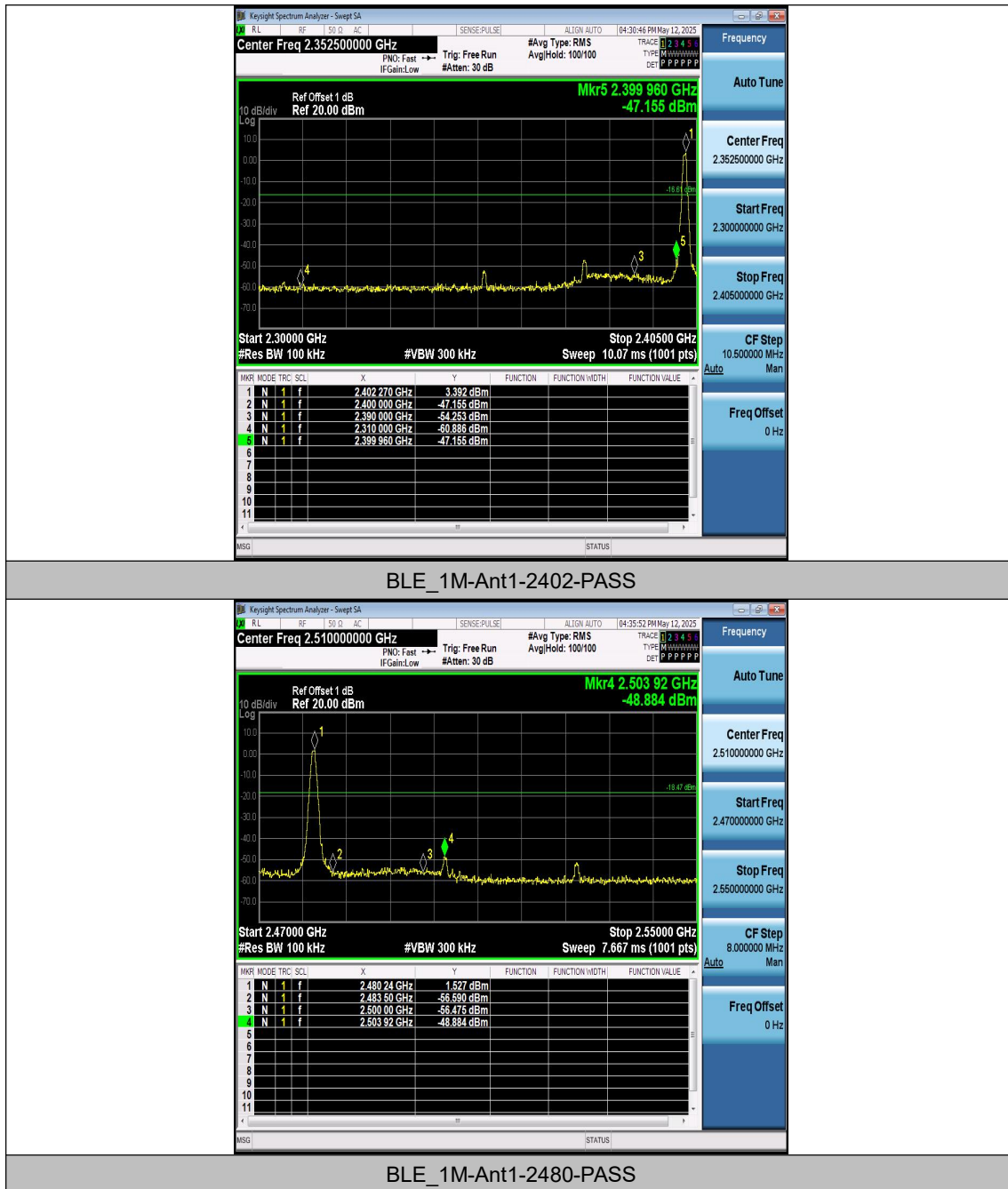
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.39	-47.16	≤-16.61	PASS
BLE_1M	Ant1	High	2480	1.53	-48.88	≤-18.47	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

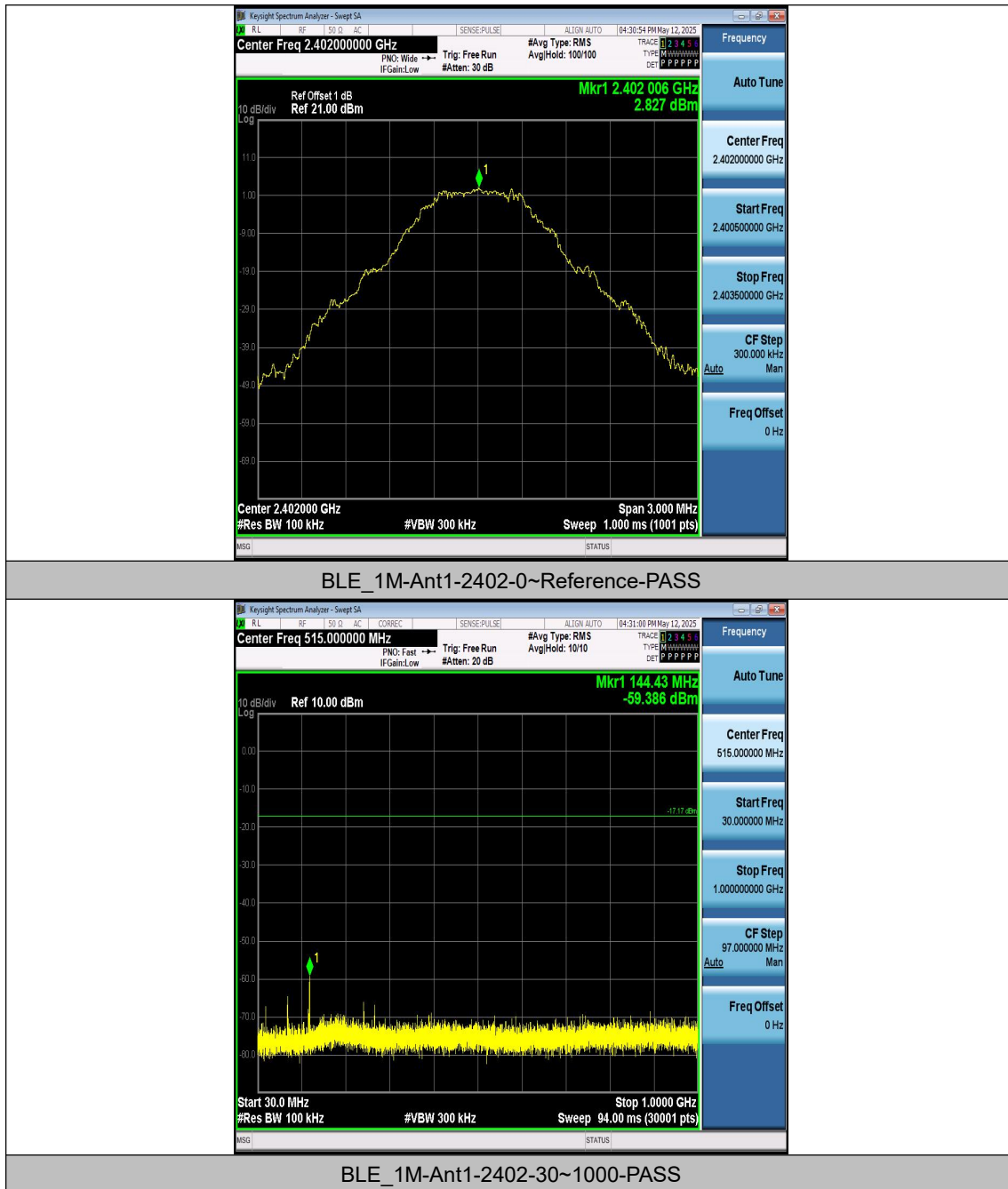
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	2.83	2.83	---	PASS
BLE_1M	Ant1	2402	30~1000	2.83	-59.39	≤-17.17	PASS
BLE_1M	Ant1	2402	1000~26500	2.83	-39.45	≤-17.17	PASS
BLE_1M	Ant1	2440	0~Reference	2.65	2.65	---	PASS
BLE_1M	Ant1	2440	30~1000	2.65	-58.7	≤-17.35	PASS
BLE_1M	Ant1	2440	1000~26500	2.65	-37.49	≤-17.35	PASS
BLE_1M	Ant1	2480	0~Reference	1.70	1.70	---	PASS
BLE_1M	Ant1	2480	30~1000	1.70	-59.57	≤-18.3	PASS
BLE_1M	Ant1	2480	1000~26500	1.70	-38.2	≤-18.3	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.



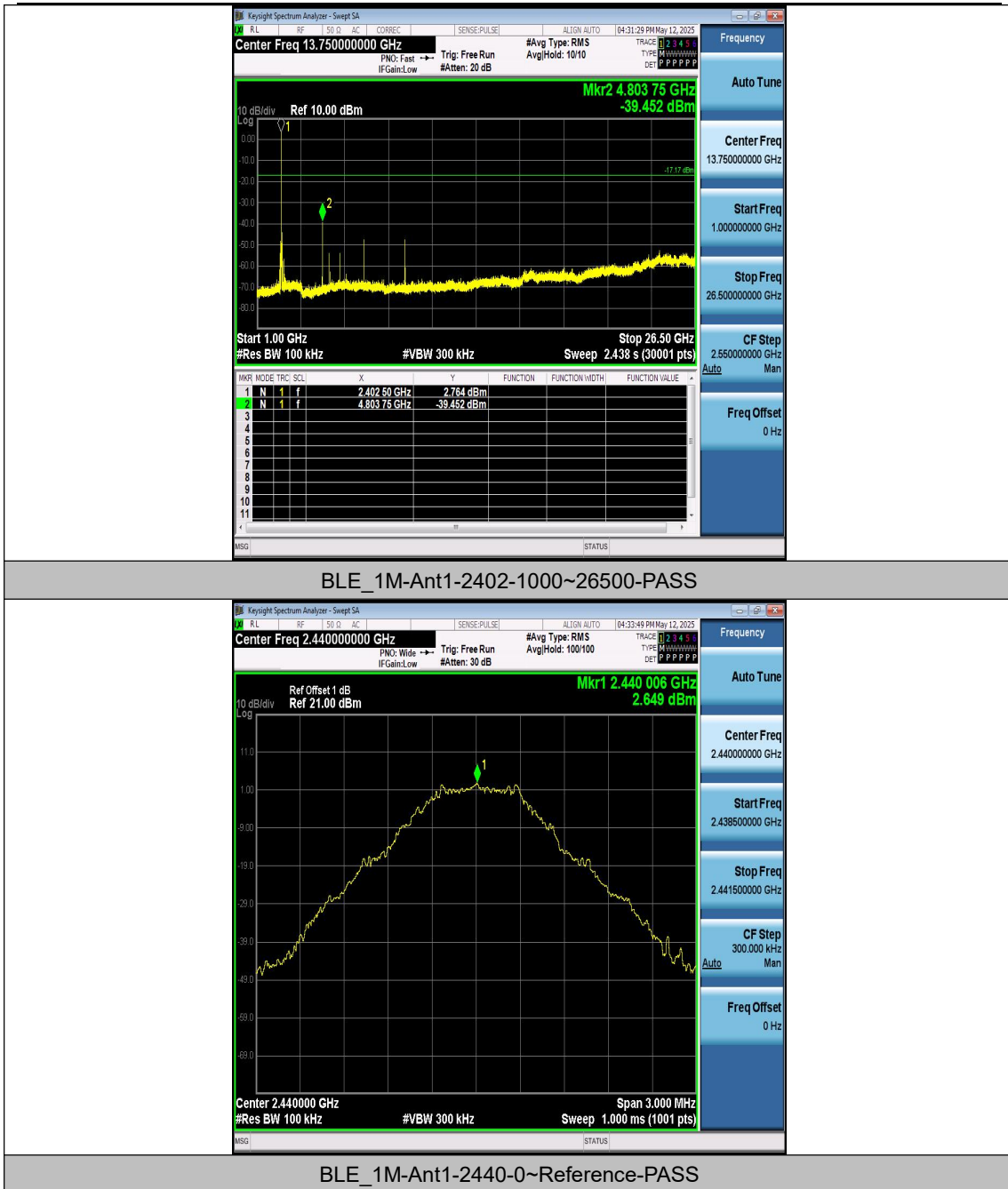
Test Graphs

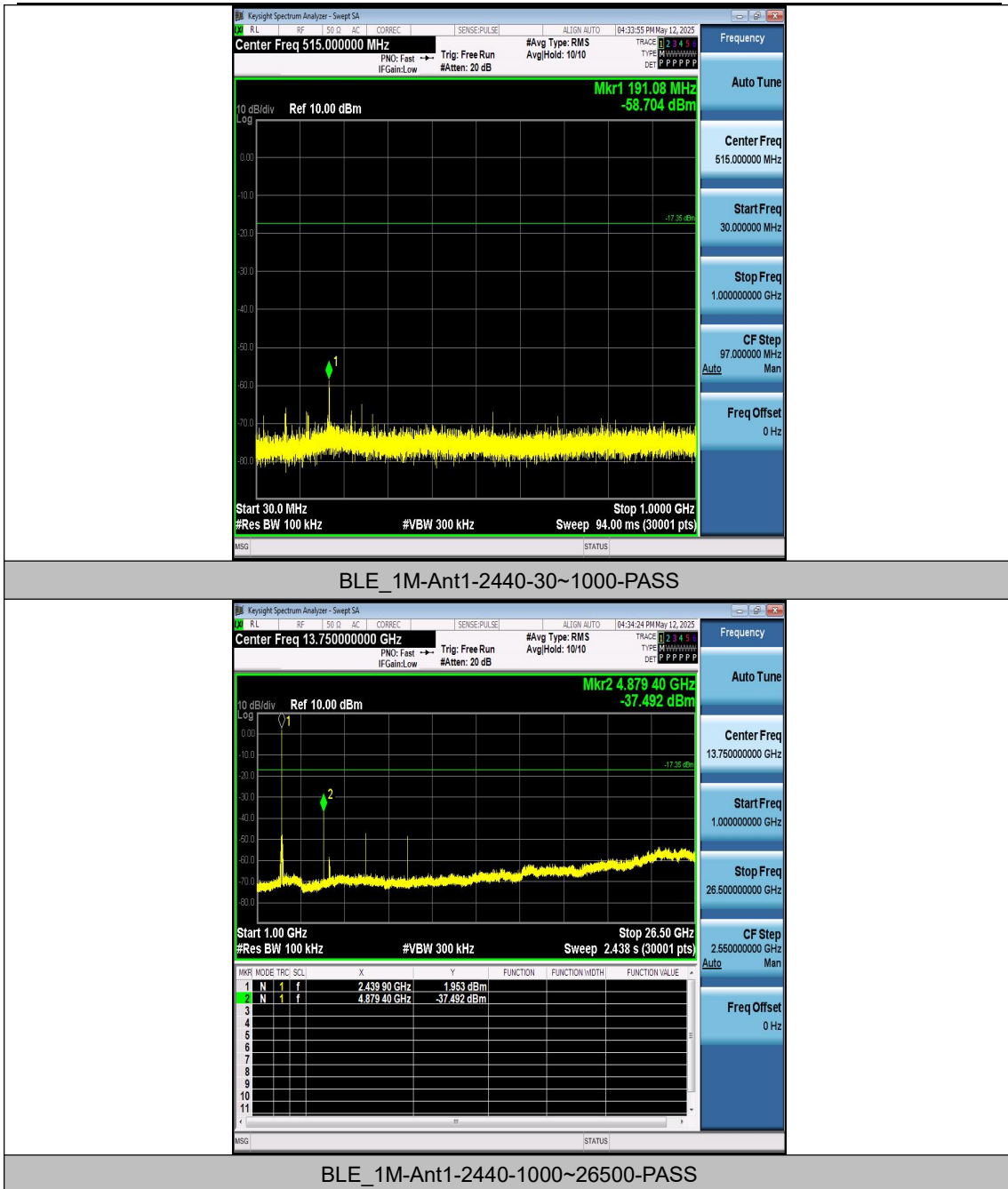


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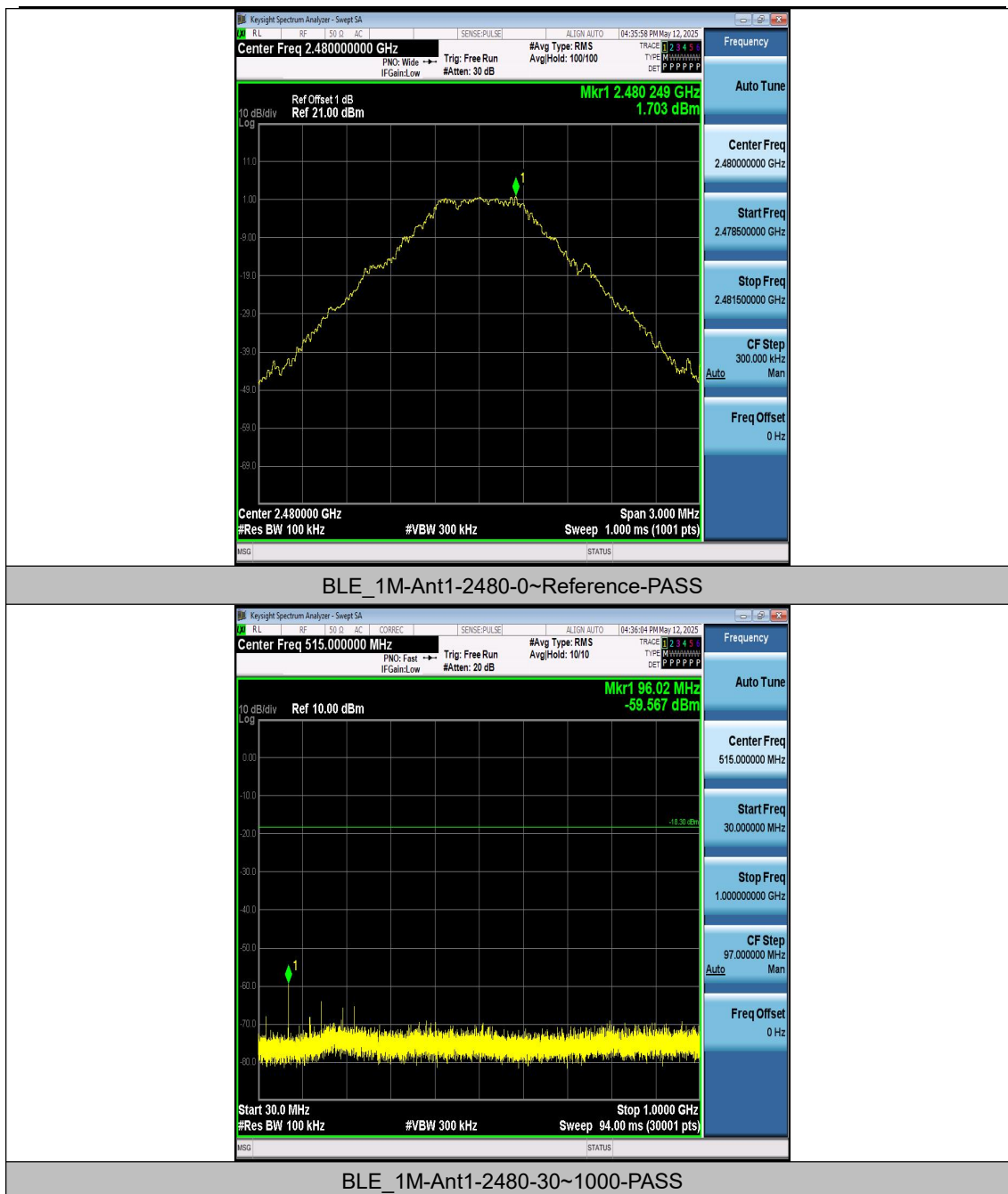


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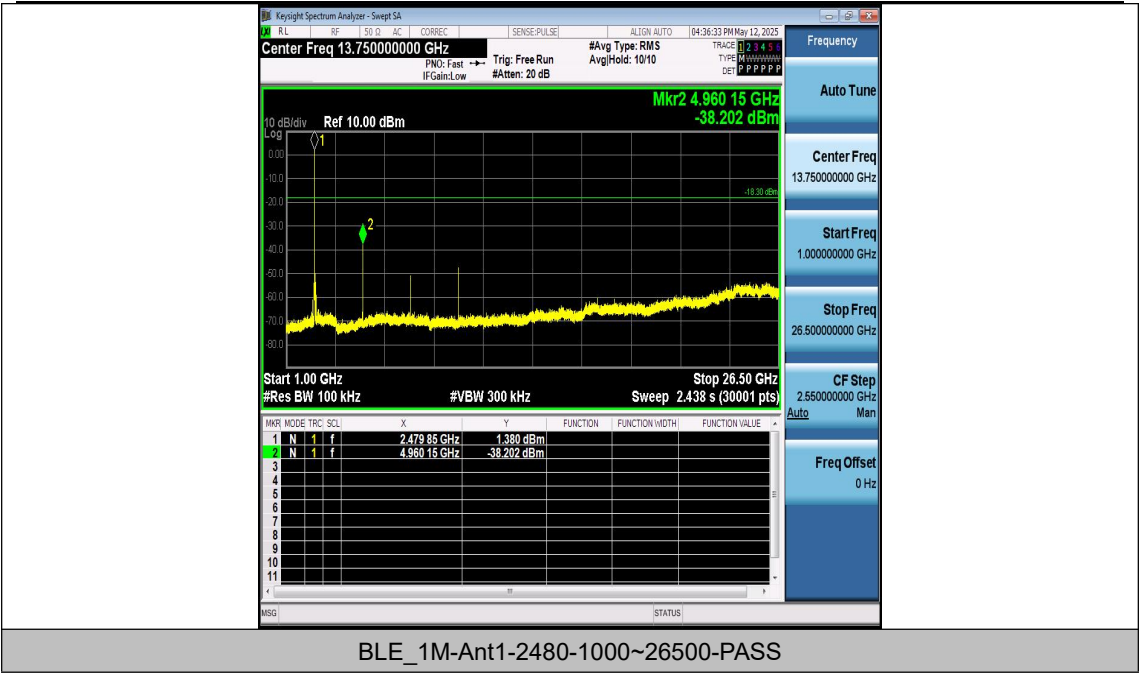


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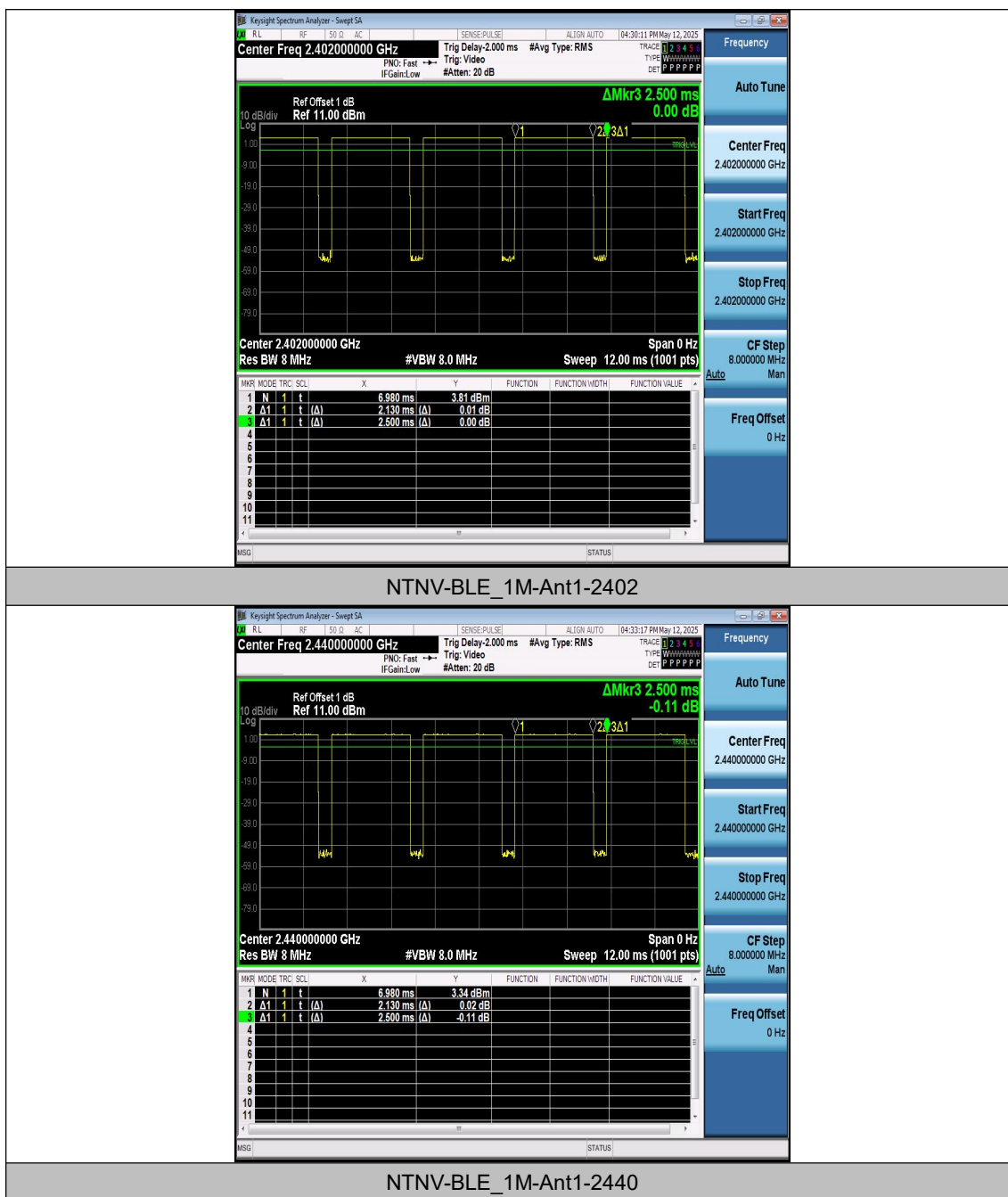
Appendix G: Duty Cycle

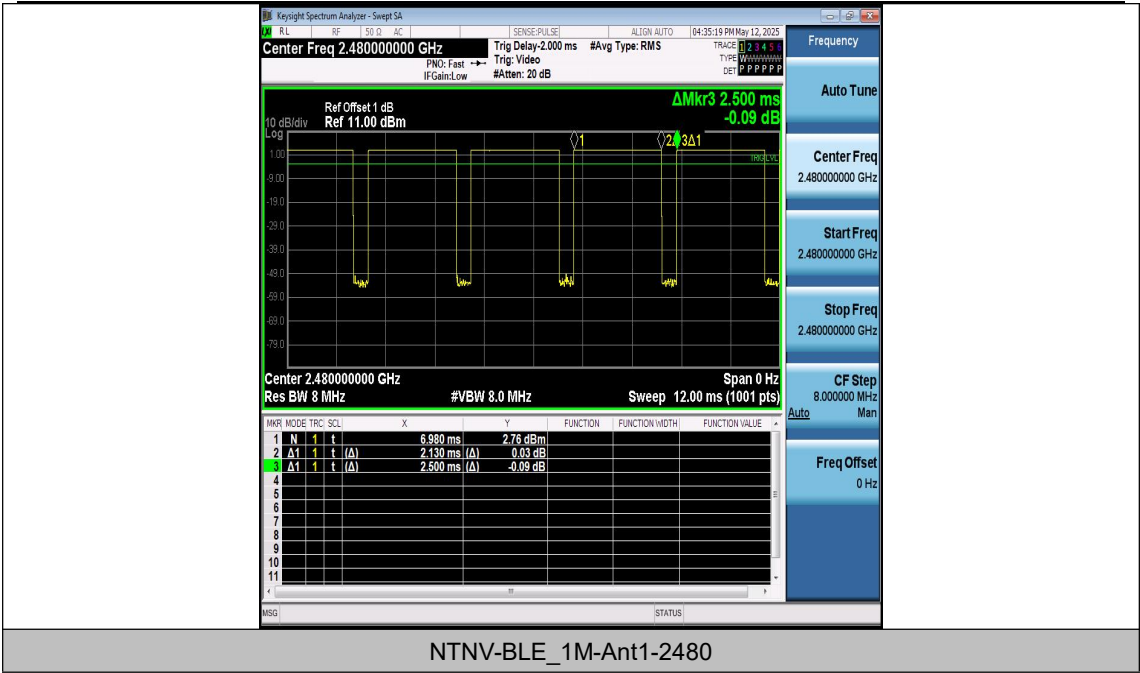
Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	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---