

Appendix Test Data

Report No.:	1814C50131912501	Test Sample No.:	1-2-2
Start Test Date:	2025-05-16	Finish Test Date:	2025-05-16
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.6°C	Relative Humidity:	50%
Pressure:	101kPa		

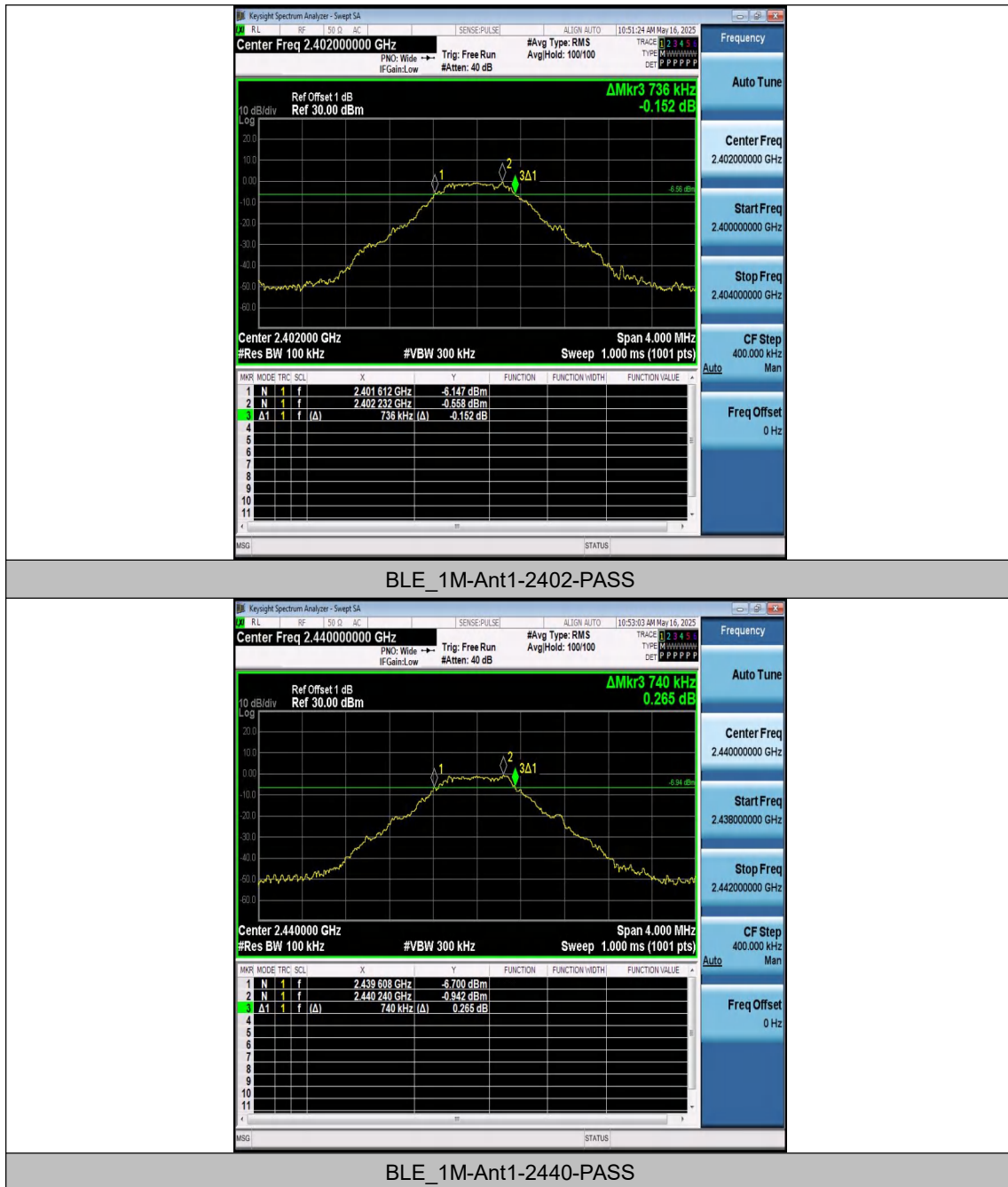
Appendix A: 6dB Bandwidth

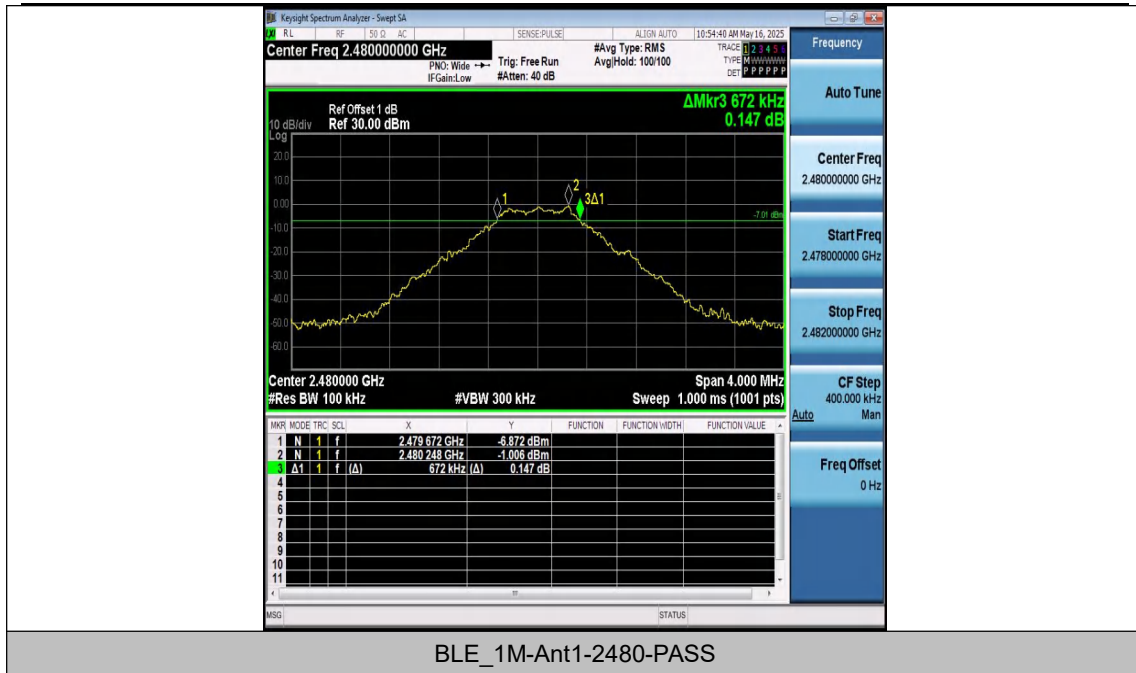
Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.736	2401.612	2402.348	0.5	PASS
BLE_1M	Ant1	2440	0.740	2439.608	2440.348	0.5	PASS
BLE_1M	Ant1	2480	0.672	2479.672	2480.344	0.5	PASS



Test Graphs





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Appendix B: 99% Occupied Bandwidth

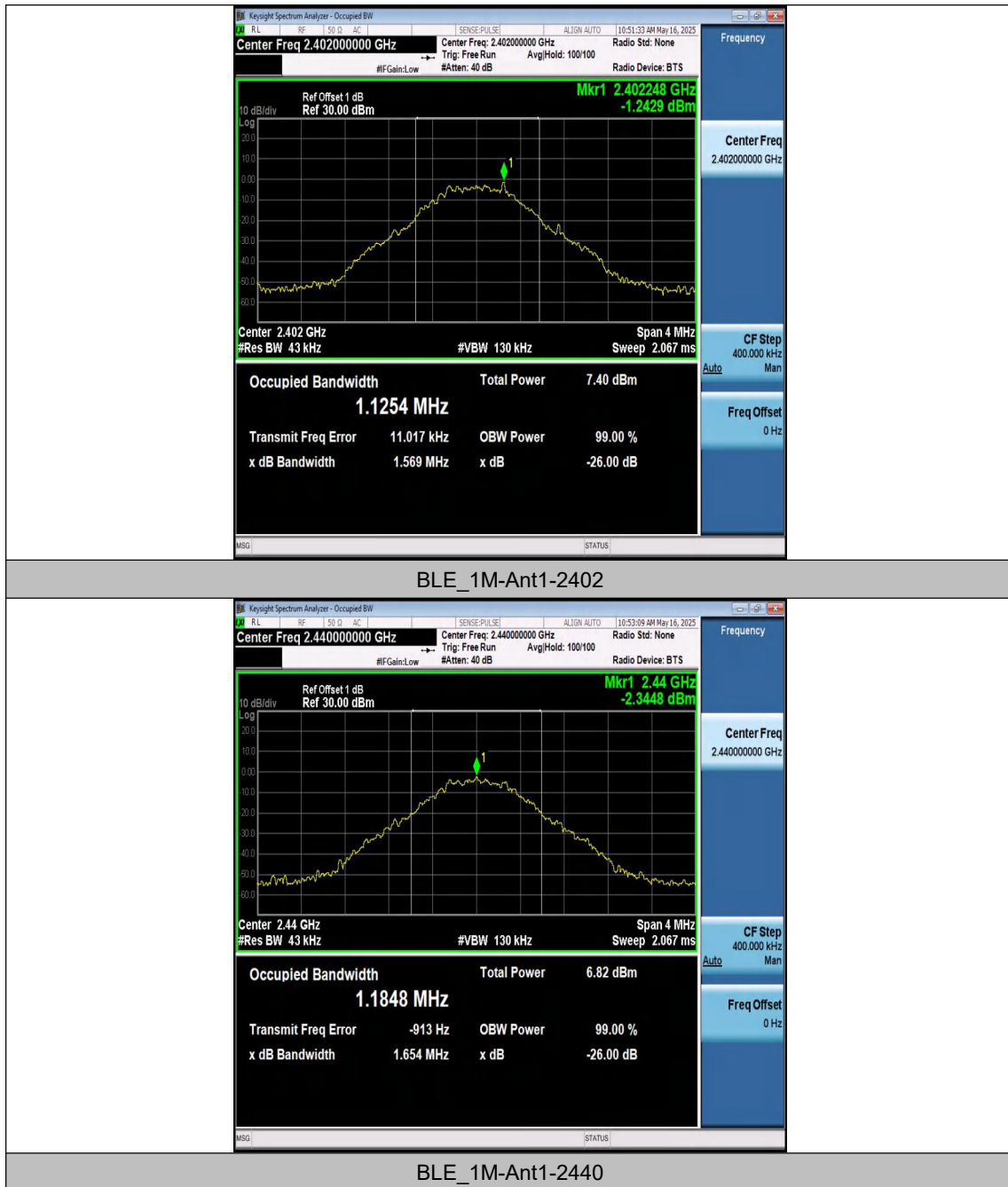
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.1254	2401.4483	2402.5737	---	---
BLE_1M	Ant1	2440	1.1848	2439.4067	2440.5915	---	---
BLE_1M	Ant1	2480	1.2163	2479.3920	2480.6083	---	---

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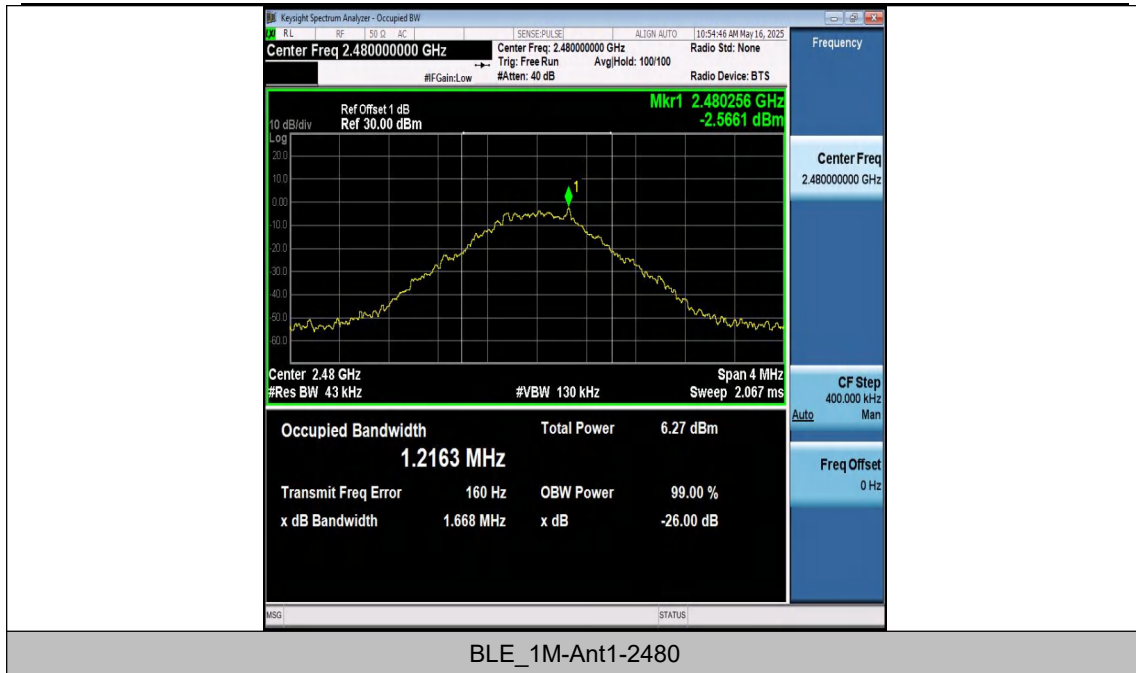
Test Graphs



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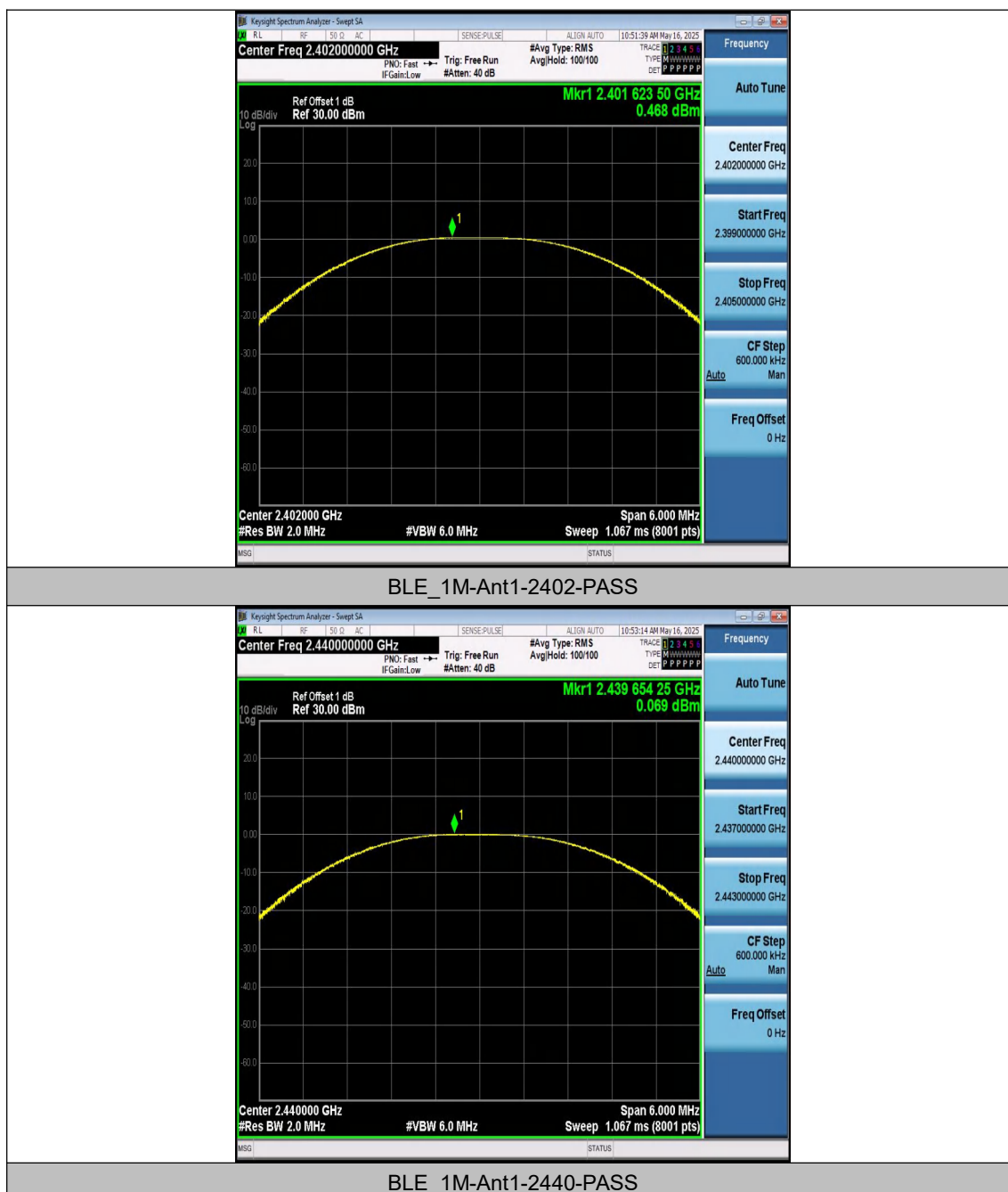
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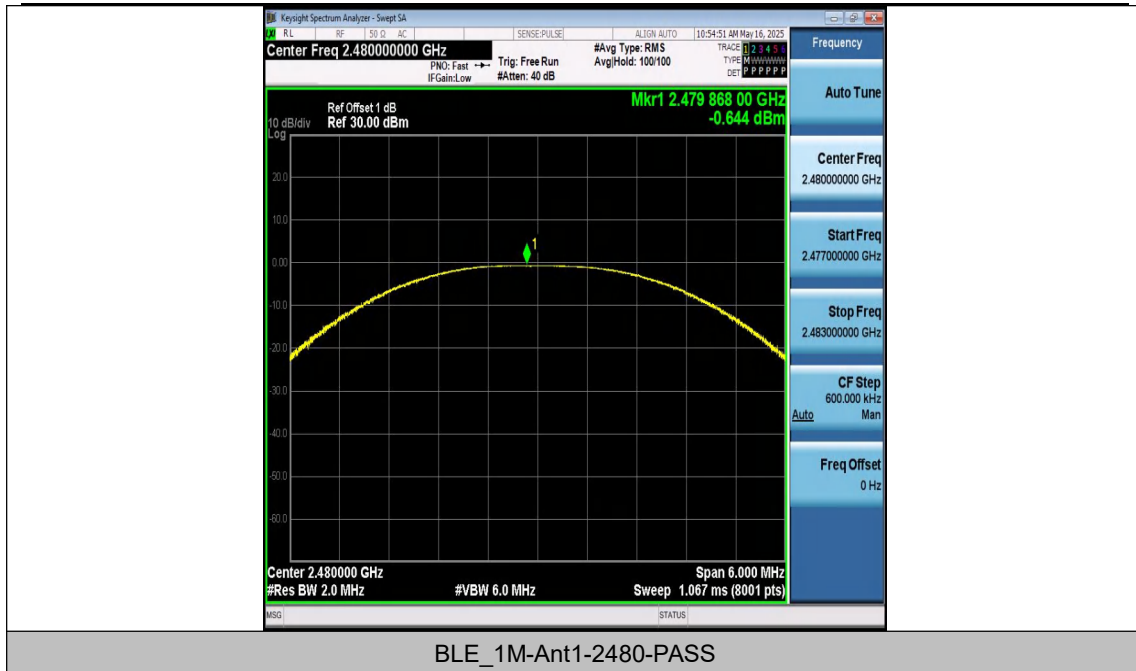
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.47	≤30	PASS
BLE_1M	Ant1	2440	0.07	≤30	PASS
BLE_1M	Ant1	2480	-0.64	≤30	PASS

Test Graphs Peak





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Appendix D: Maximum power spectral density

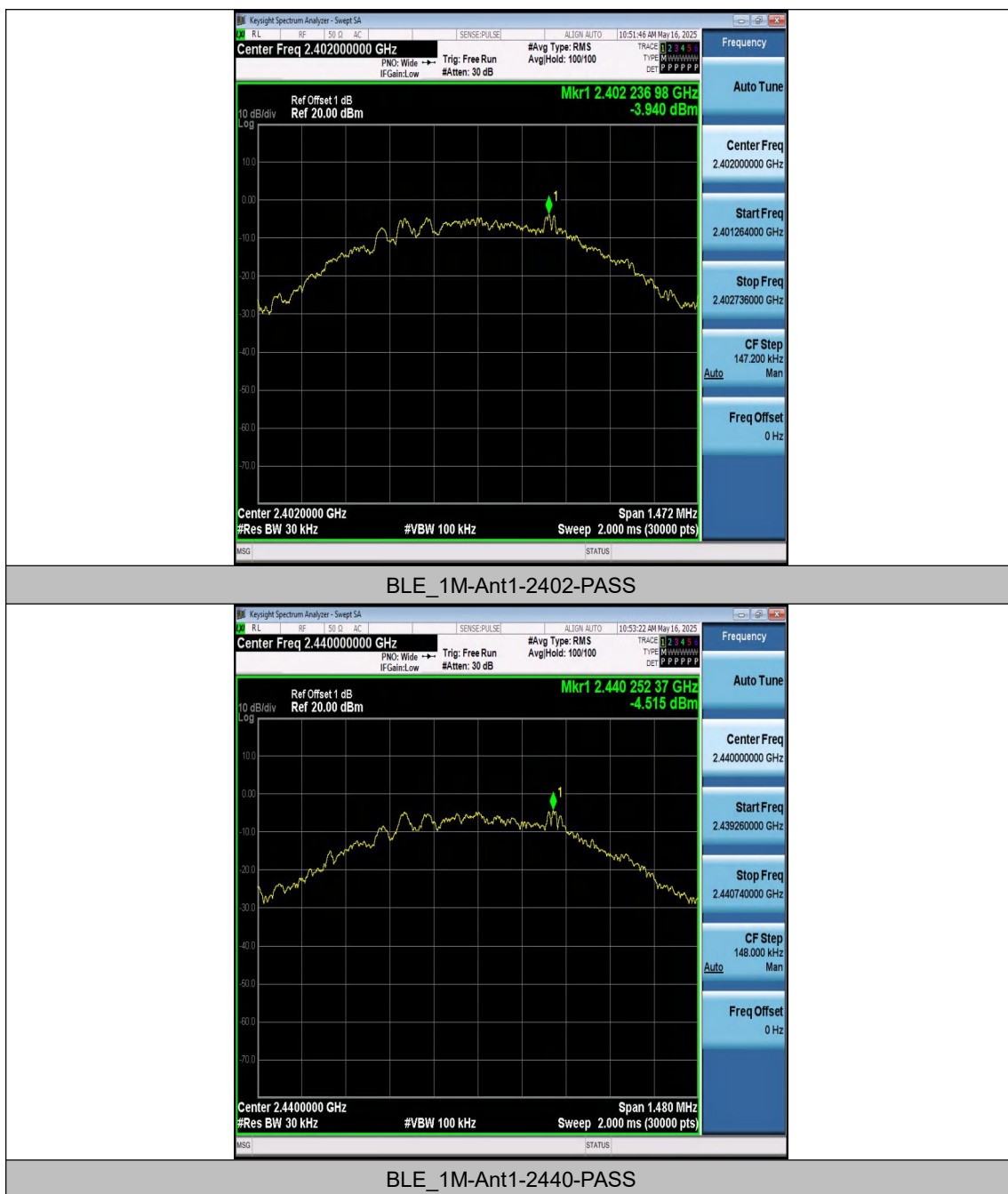
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-3.94	≤8.00	PASS
BLE_1M	Ant1	2440	-4.52	≤8.00	PASS
BLE_1M	Ant1	2480	-5.22	≤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

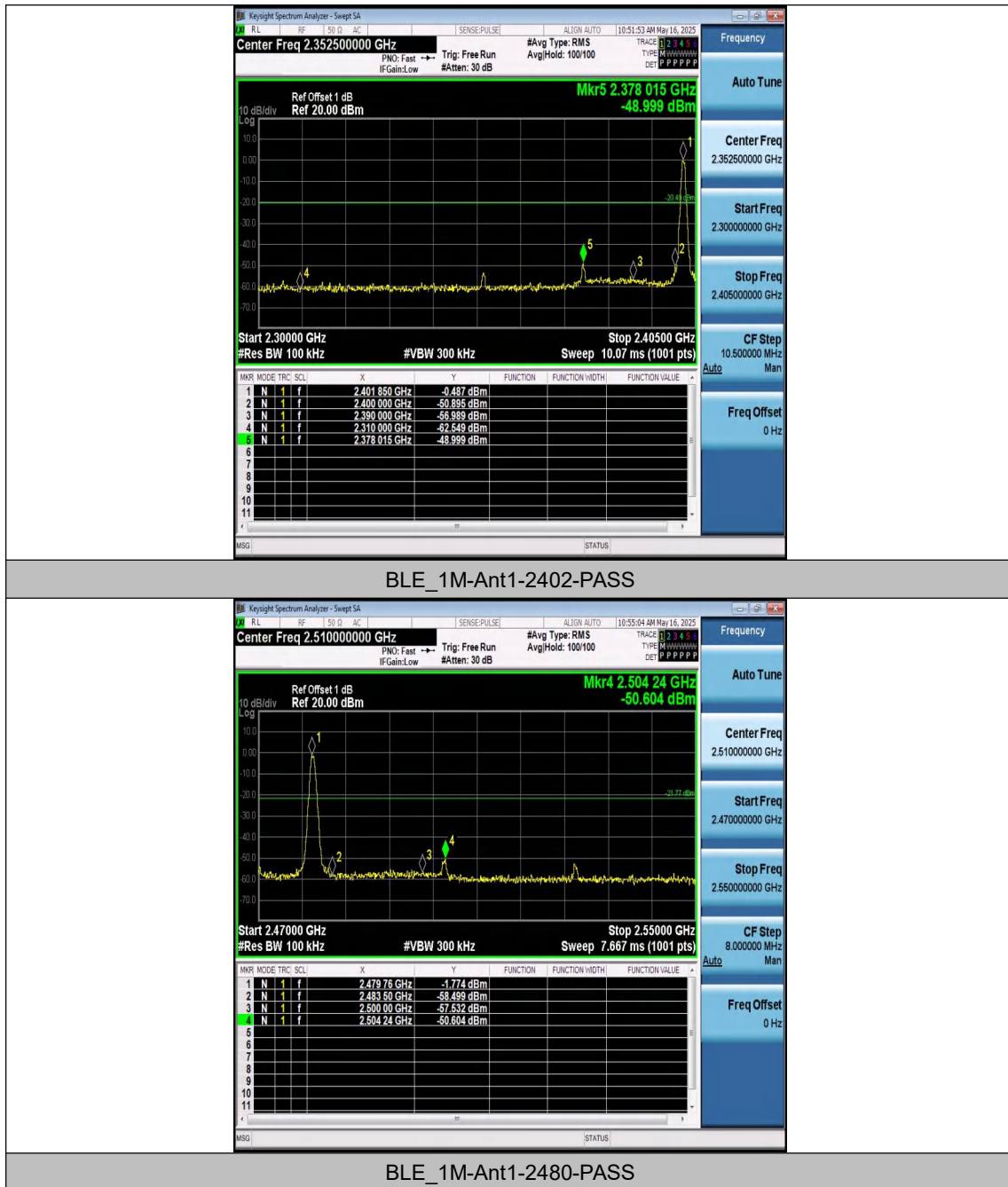
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.49	-49	≤-20.49	PASS
BLE_1M	Ant1	High	2480	-1.77	-50.6	≤-21.77	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

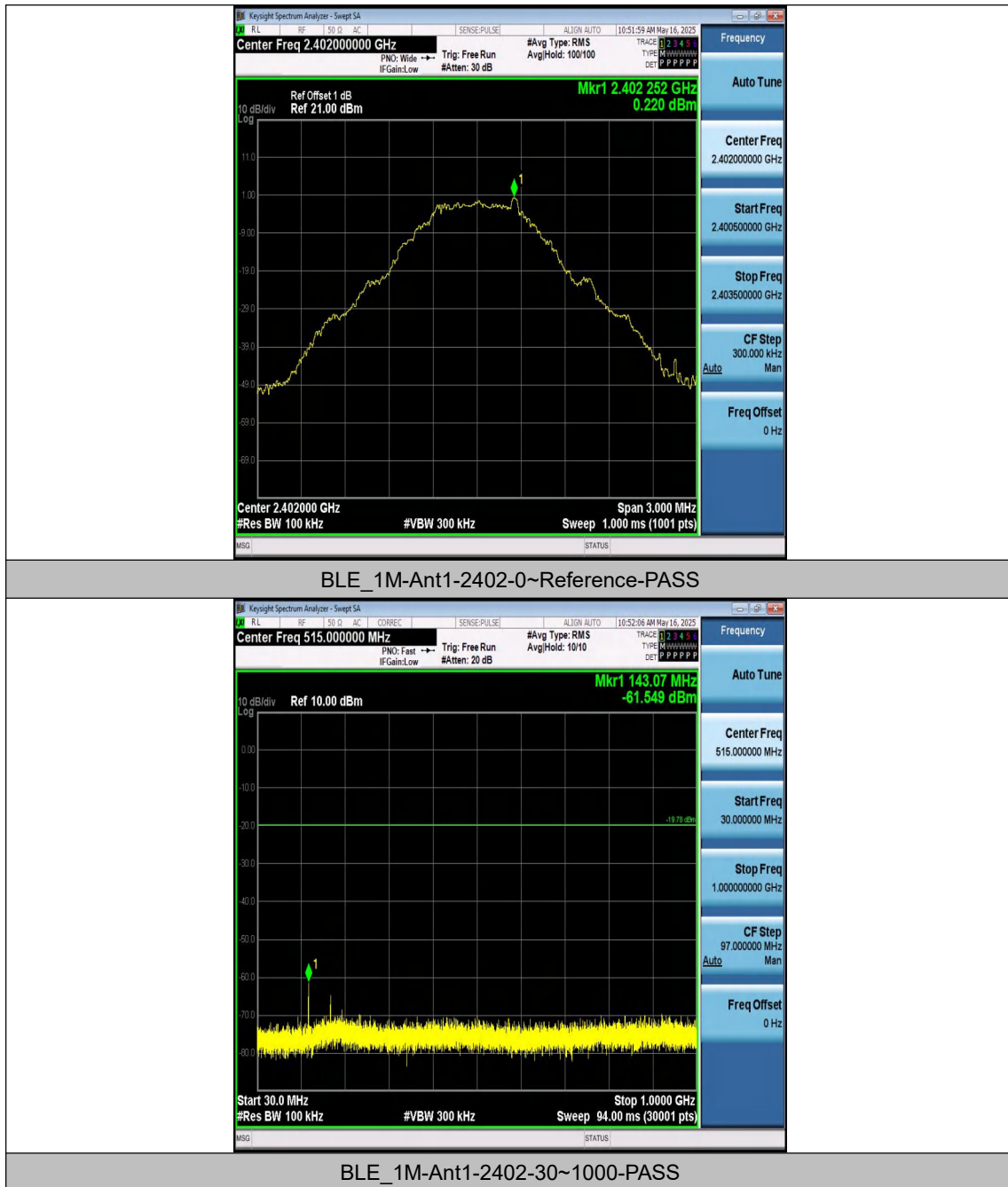
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.22	0.22	---	PASS
BLE_1M	Ant1	2402	30~1000	0.22	-61.55	≤-19.78	PASS
BLE_1M	Ant1	2402	1000~26500	0.22	-42.37	≤-19.78	PASS
BLE_1M	Ant1	2440	0~Reference	-0.64	-0.64	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.64	-66.23	≤-20.64	PASS
BLE_1M	Ant1	2440	1000~26500	-0.64	-42.94	≤-20.64	PASS
BLE_1M	Ant1	2480	0~Reference	-1.83	-1.83	---	PASS
BLE_1M	Ant1	2480	30~1000	-1.83	-65.17	≤-21.83	PASS
BLE_1M	Ant1	2480	1000~26500	-1.83	-40.97	≤-21.83	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.



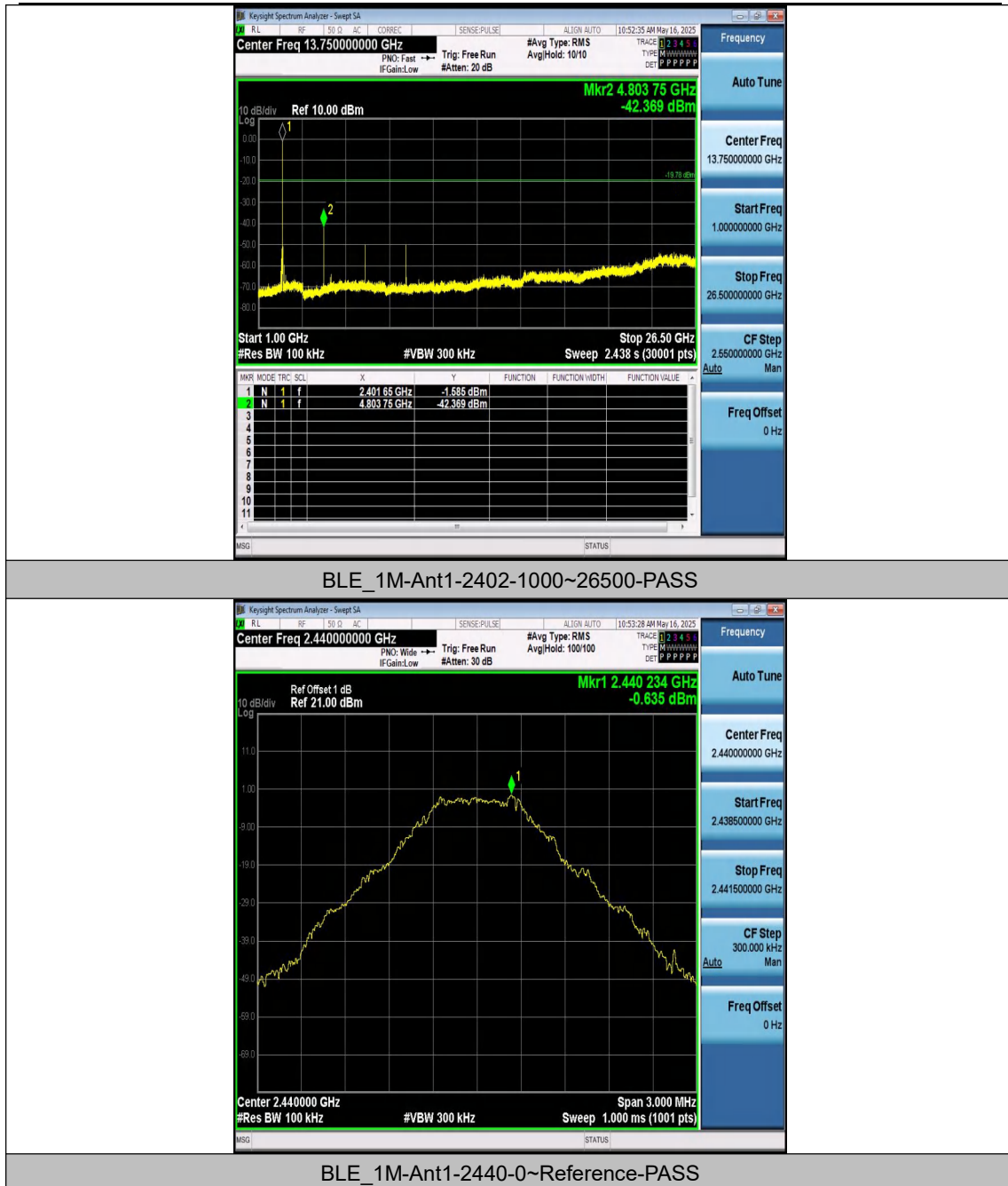
Test Graphs



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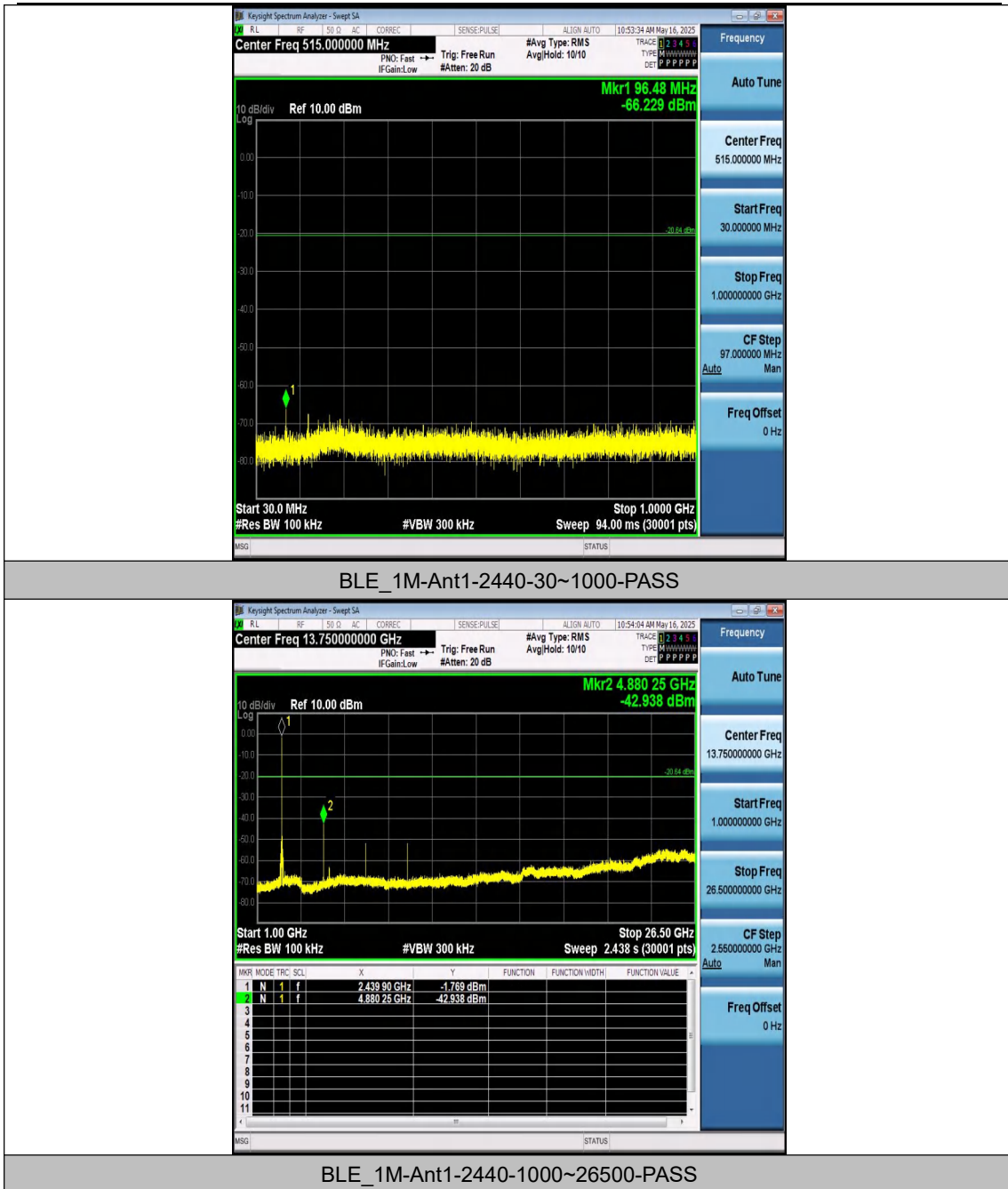
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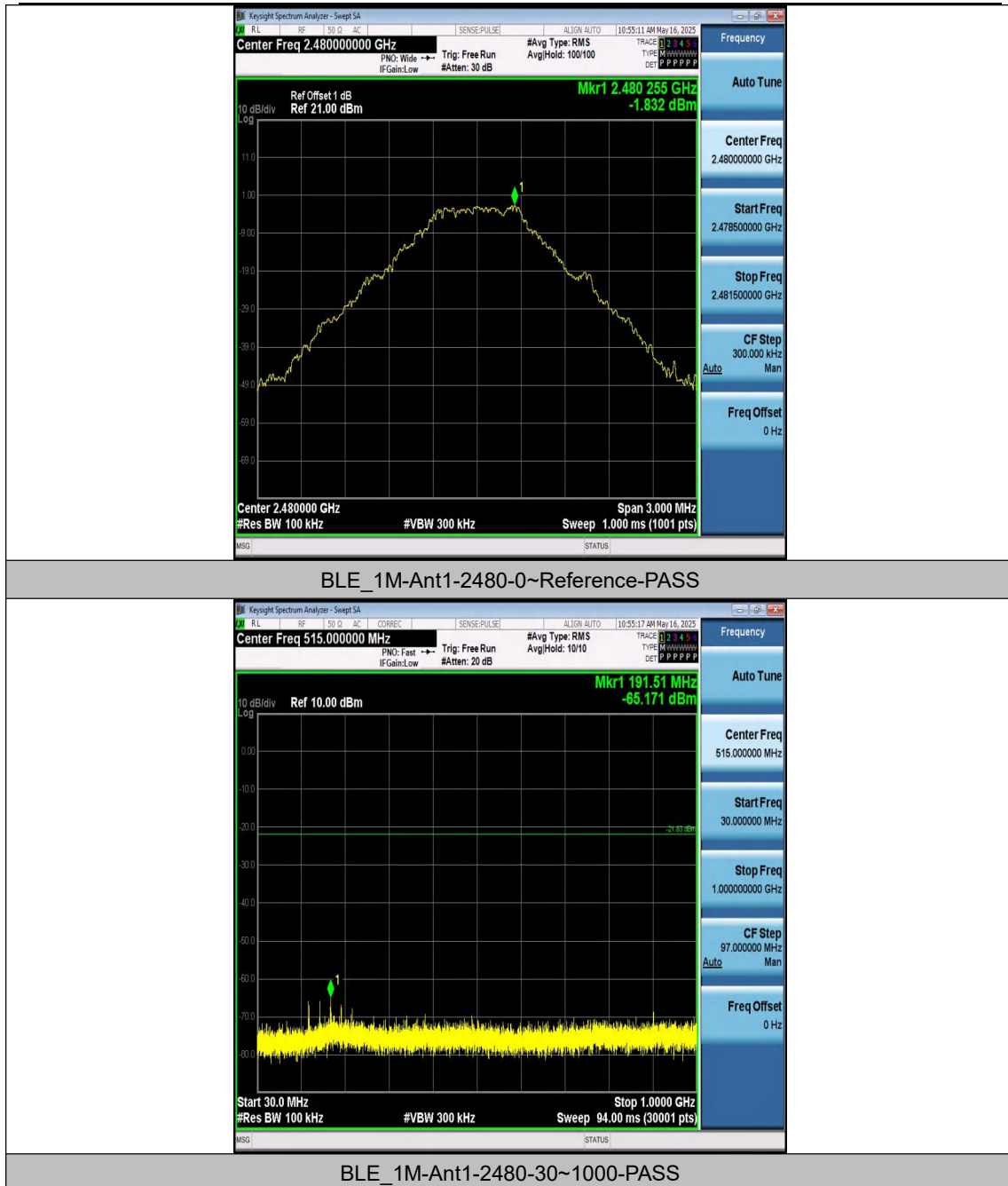


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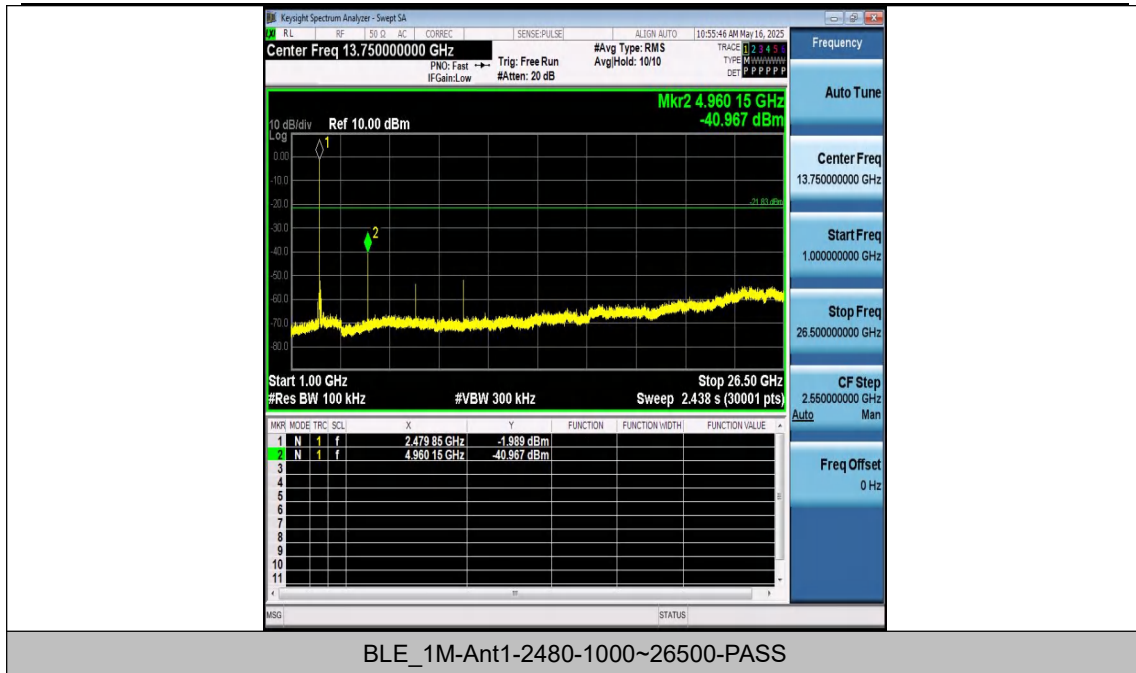




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Appendix G: Duty Cycle

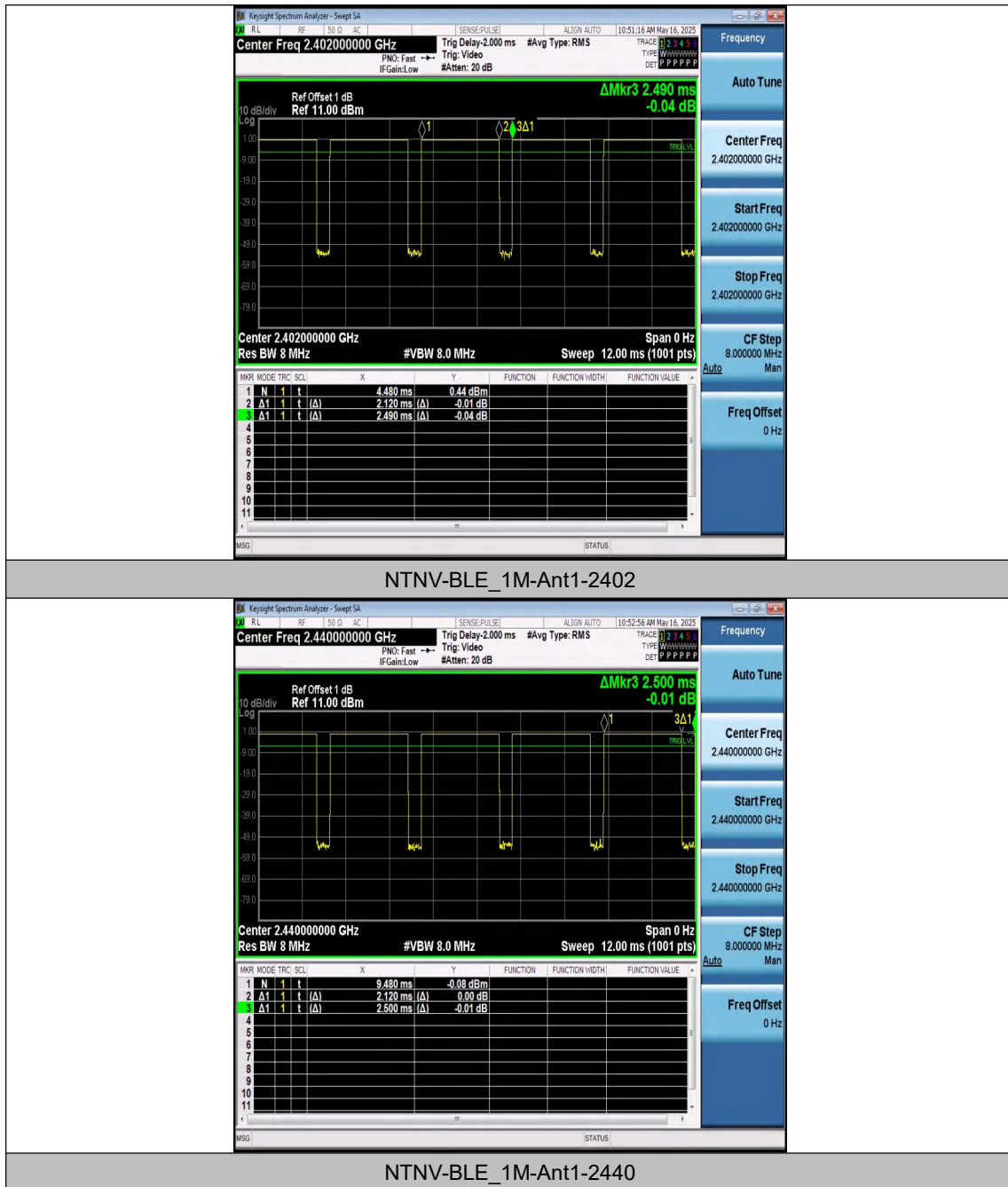
Test Result

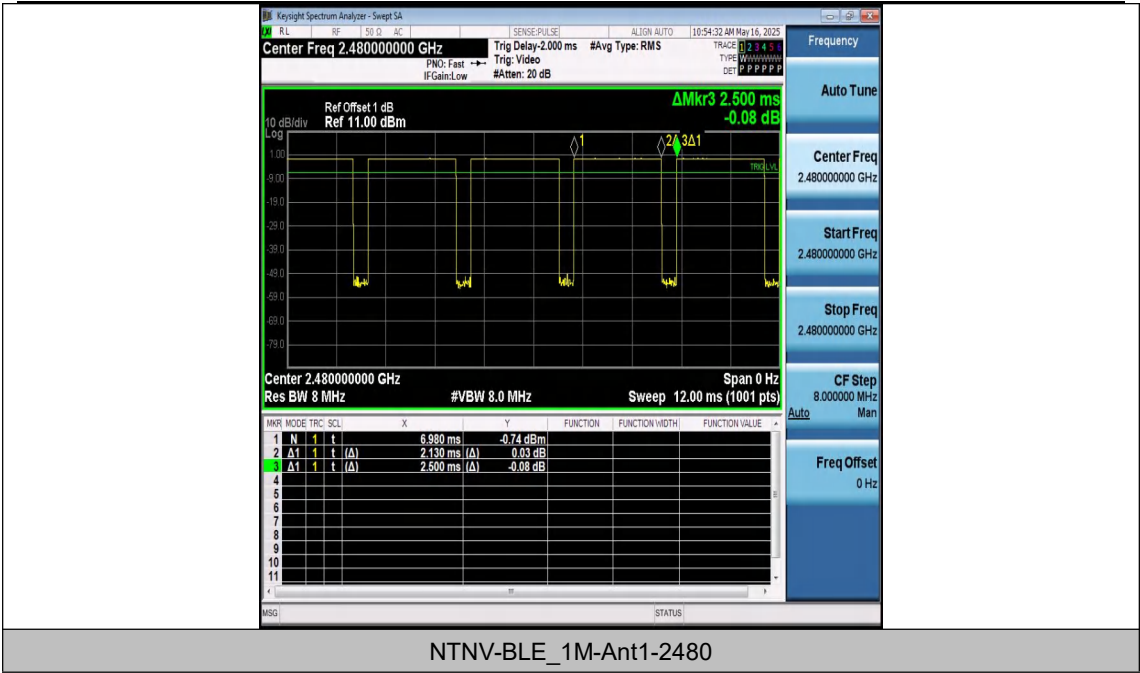
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.12	2.49	85.14	0.70
BLE_1M	Ant1	2440	2.12	2.50	84.80	0.72
BLE_1M	Ant1	2480	2.13	2.50	85.20	0.70

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Test Graphs





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