

Appendix Test Data

Report No.:	1812C50621812501-01	Test Sample No.:	1-2-2
Start Test Date:	2025-11-21	Finish Test Date:	2025-11-25
Test Engineer:	Alex Peng	Auditor:	Justin Feng
Temperature:	23.8°C	Relative Humidity:	40%
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	0.724	2401.632	2402.356	0.5	PASS
BLE_1M	Ant1	2440	0.704	2439.656	2440.360	0.5	PASS
BLE_1M	Ant1	2480	0.712	2479.648	2480.360	0.5	PASS

Test Graphs





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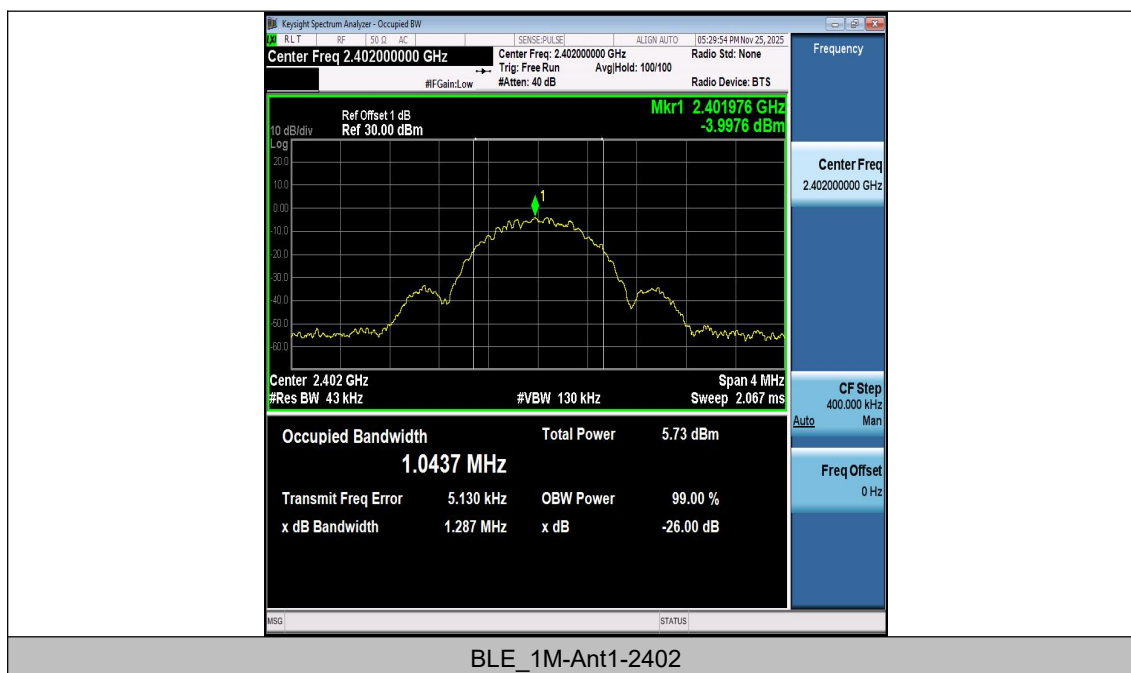
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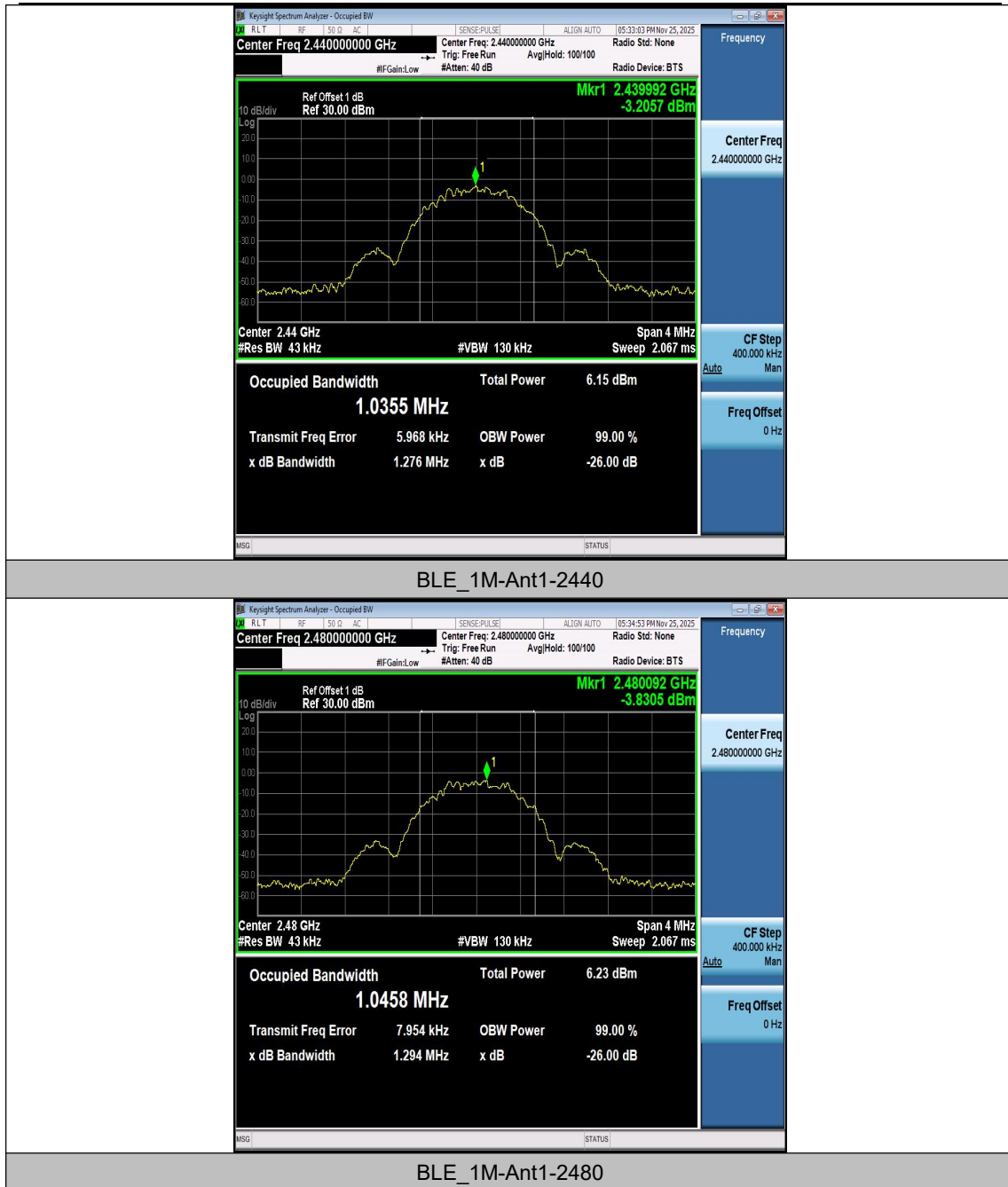
Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0437	2401.4833	2402.5270	---	---
BLE_1M	Ant1	2440	1.0355	2439.4882	2440.5237	---	---
BLE_1M	Ant1	2480	1.0458	2479.4851	2480.5309	---	---

Test Graphs





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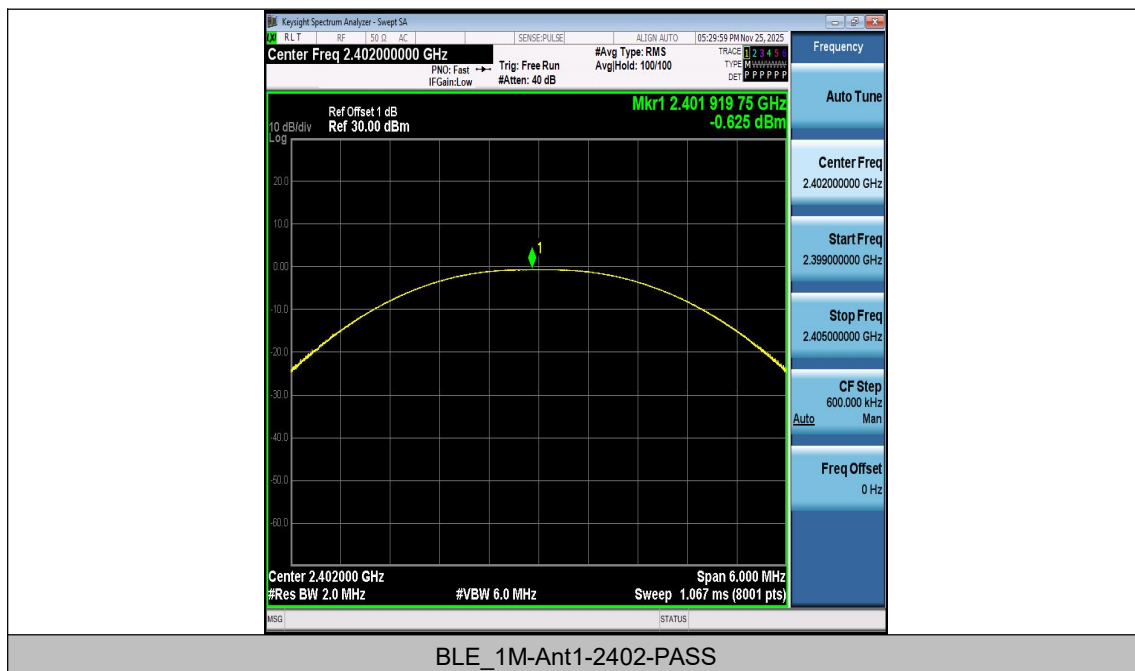
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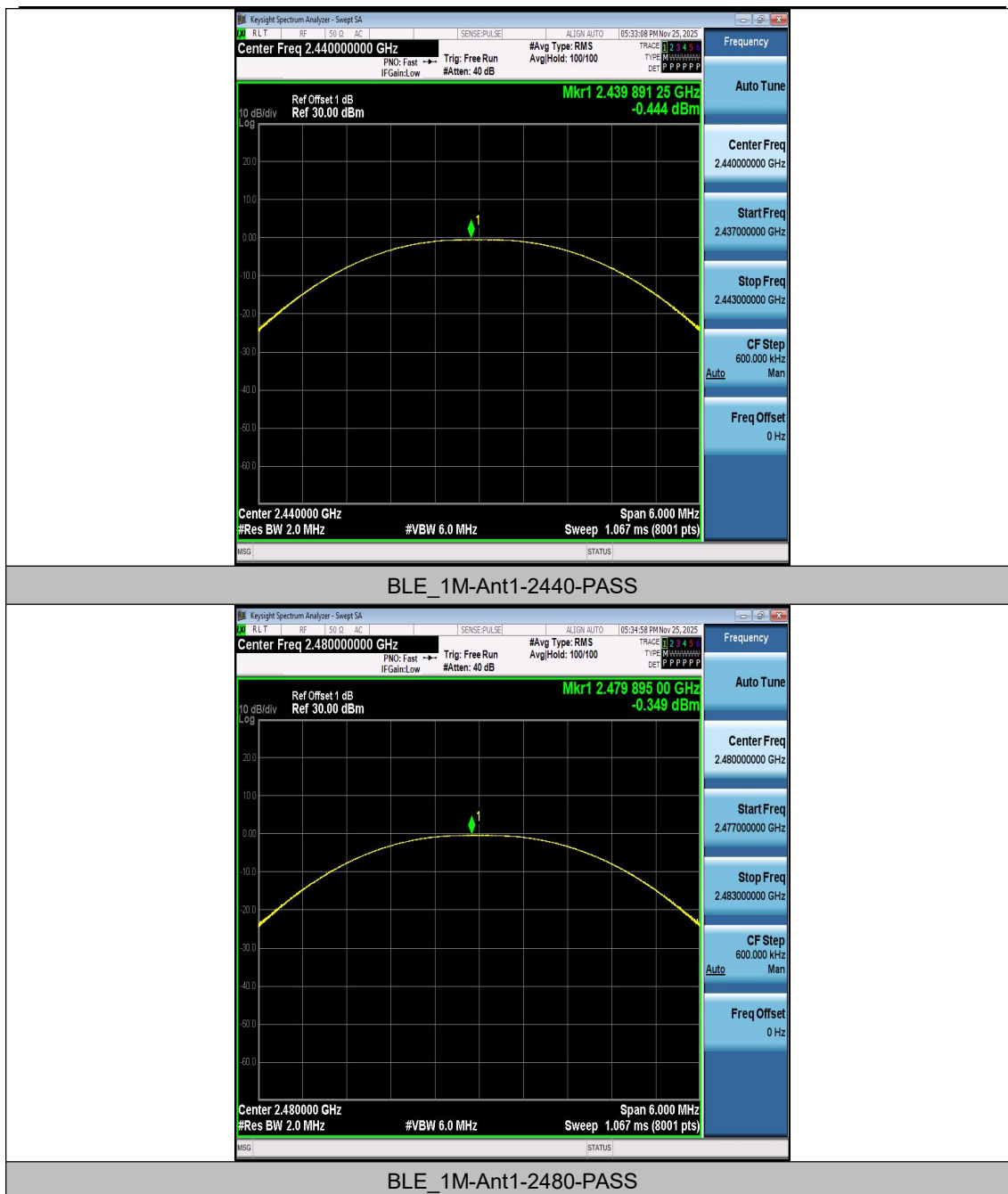
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.63	≤30	PASS
BLE_1M	Ant1	2440	-0.44	≤30	PASS
BLE_1M	Ant1	2480	-0.35	≤30	PASS

Test Graphs Peak





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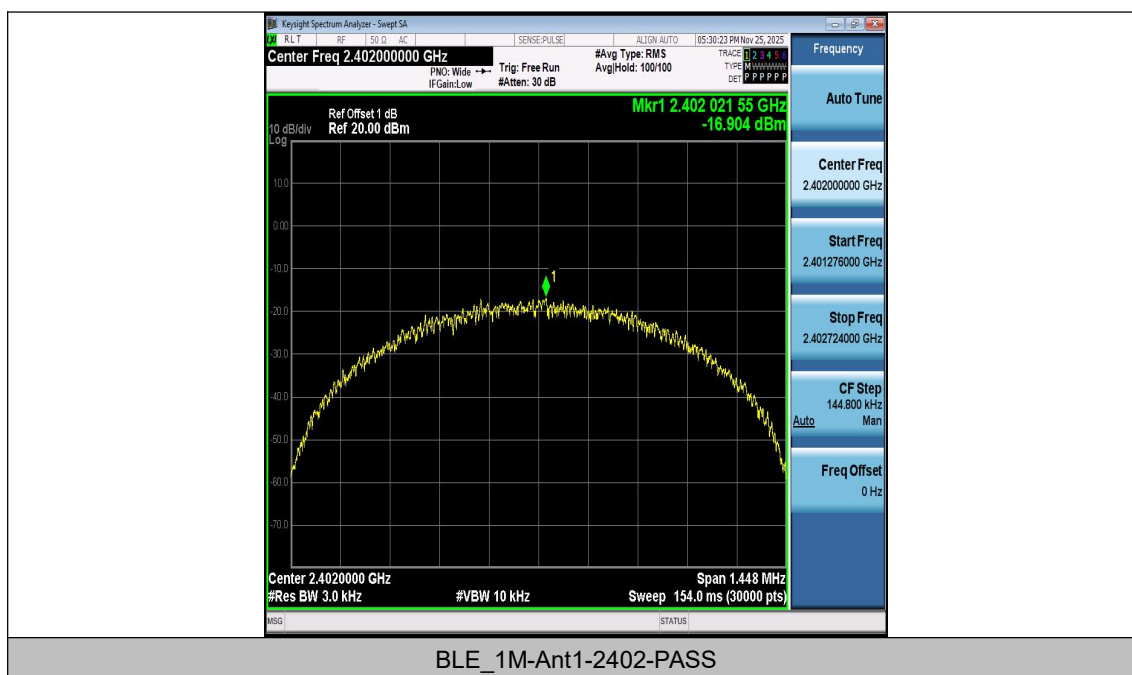
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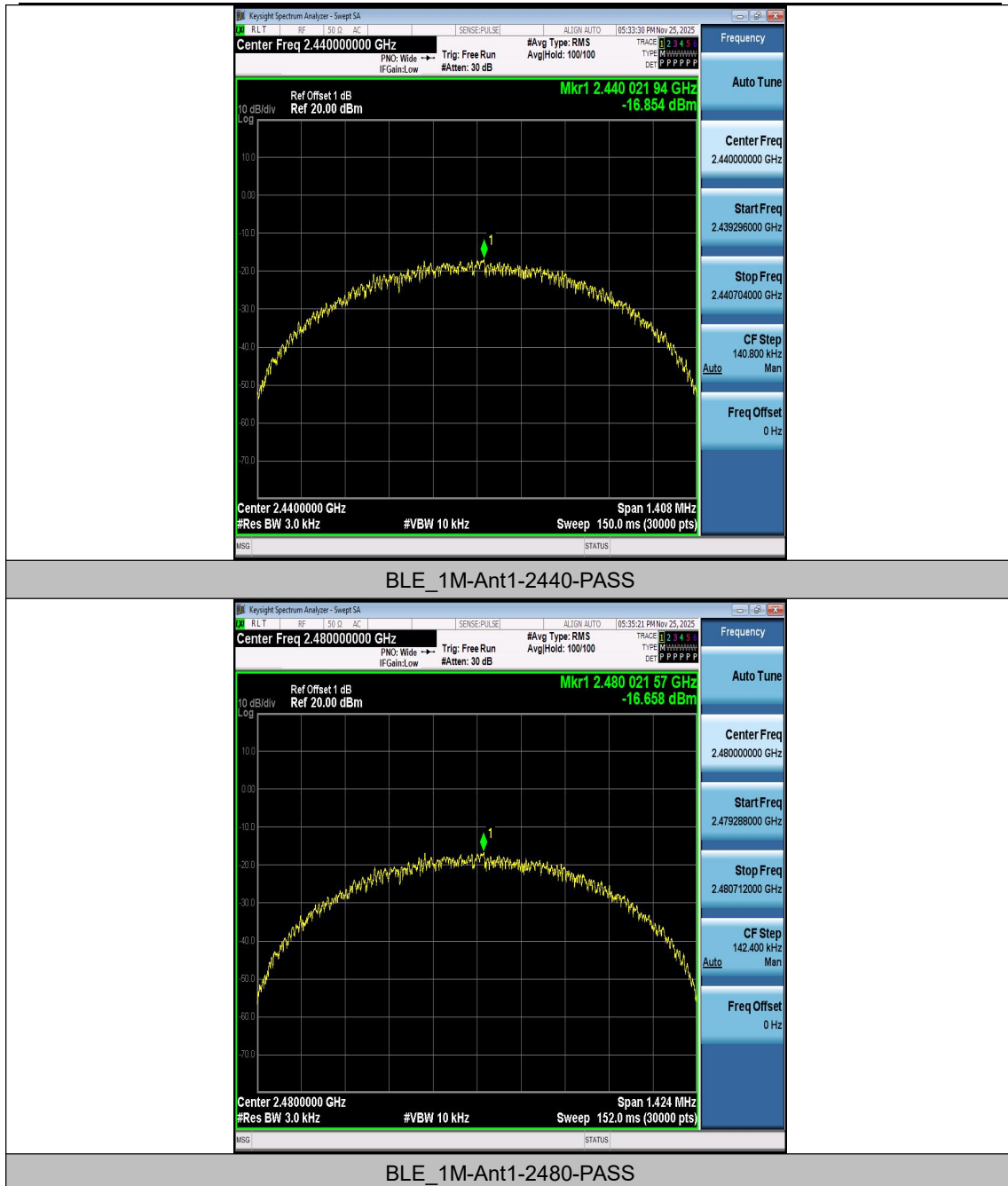
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.90	≤8.00	PASS
BLE_1M	Ant1	2440	-16.85	≤8.00	PASS
BLE_1M	Ant1	2480	-16.66	≤8.00	PASS

Test Graphs





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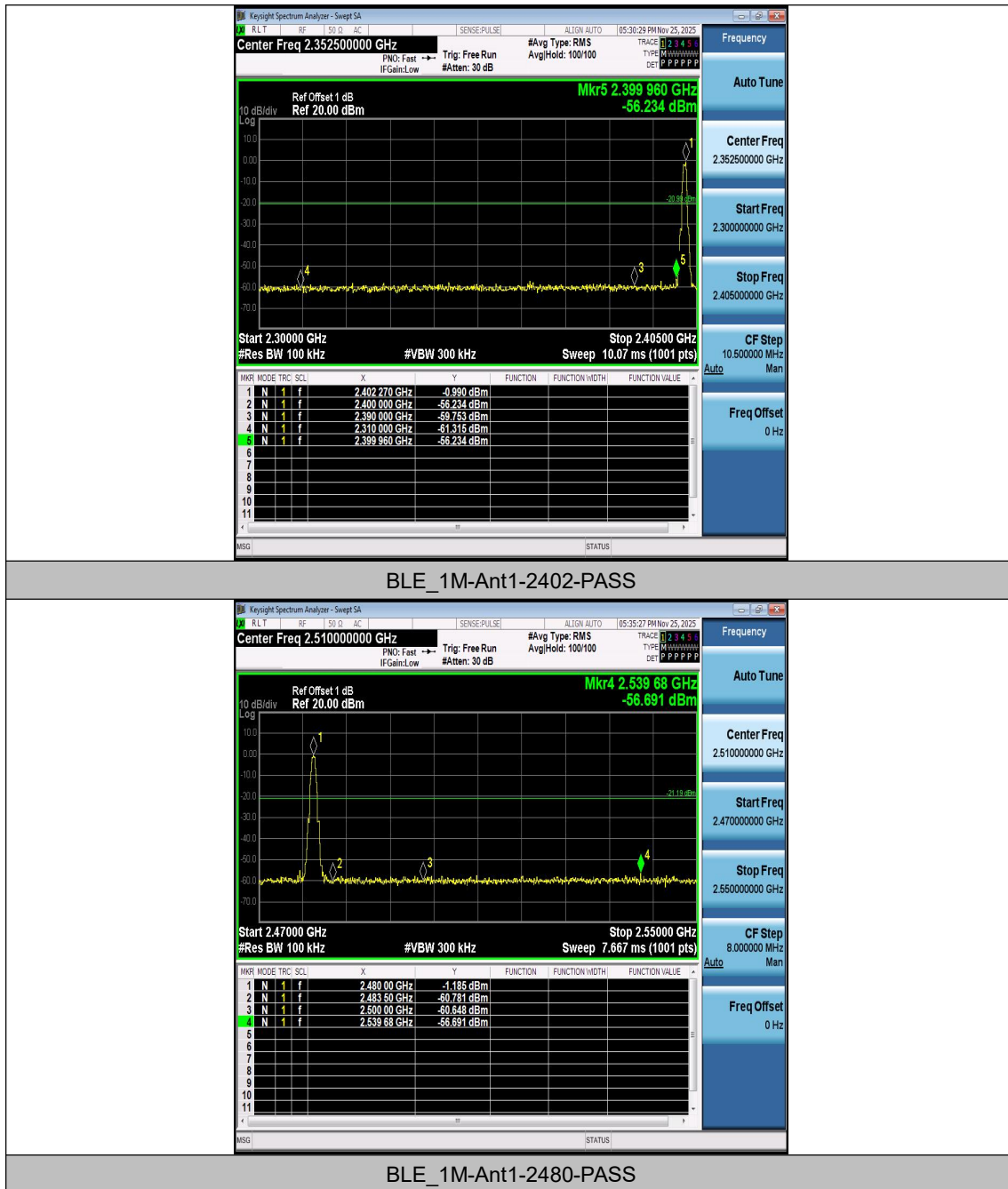
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.99	-56.23	≤-20.99	PASS
BLE_1M	Ant1	High	2480	-1.19	-56.69	≤-21.19	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

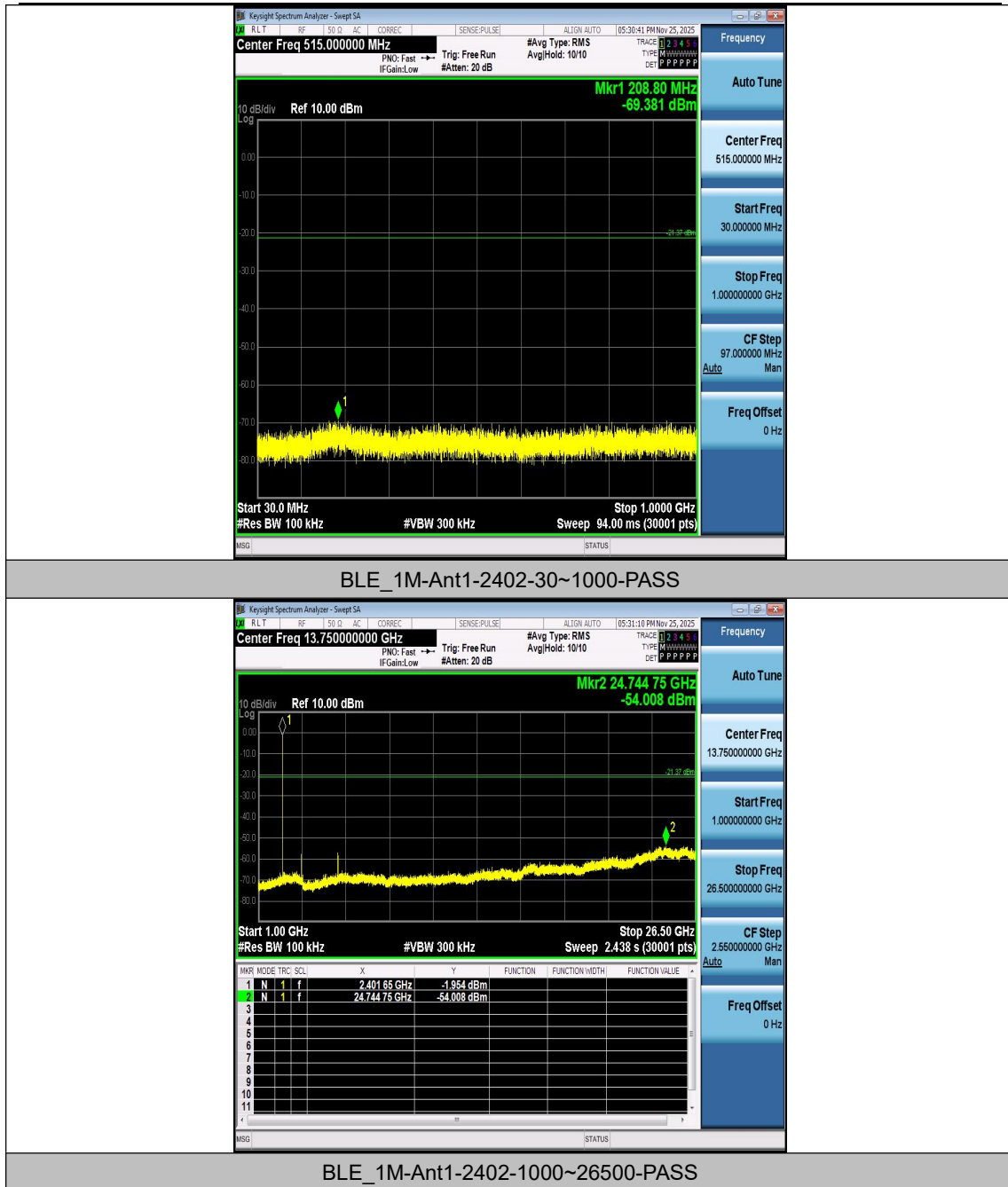
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-1.37	-1.37	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.37	-69.38	≤-21.37	PASS
BLE_1M	Ant1	2402	1000~26500	-1.37	-54.01	≤-21.37	PASS
BLE_1M	Ant1	2440	0~Reference	-0.78	-0.78	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.78	-68.49	≤-20.78	PASS
BLE_1M	Ant1	2440	1000~26500	-0.78	-53.96	≤-20.78	PASS
BLE_1M	Ant1	2480	0~Reference	-1.11	-1.11	---	PASS
BLE_1M	Ant1	2480	30~1000	-1.11	-67.84	≤-21.11	PASS
BLE_1M	Ant1	2480	1000~26500	-1.11	-53.16	≤-21.11	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

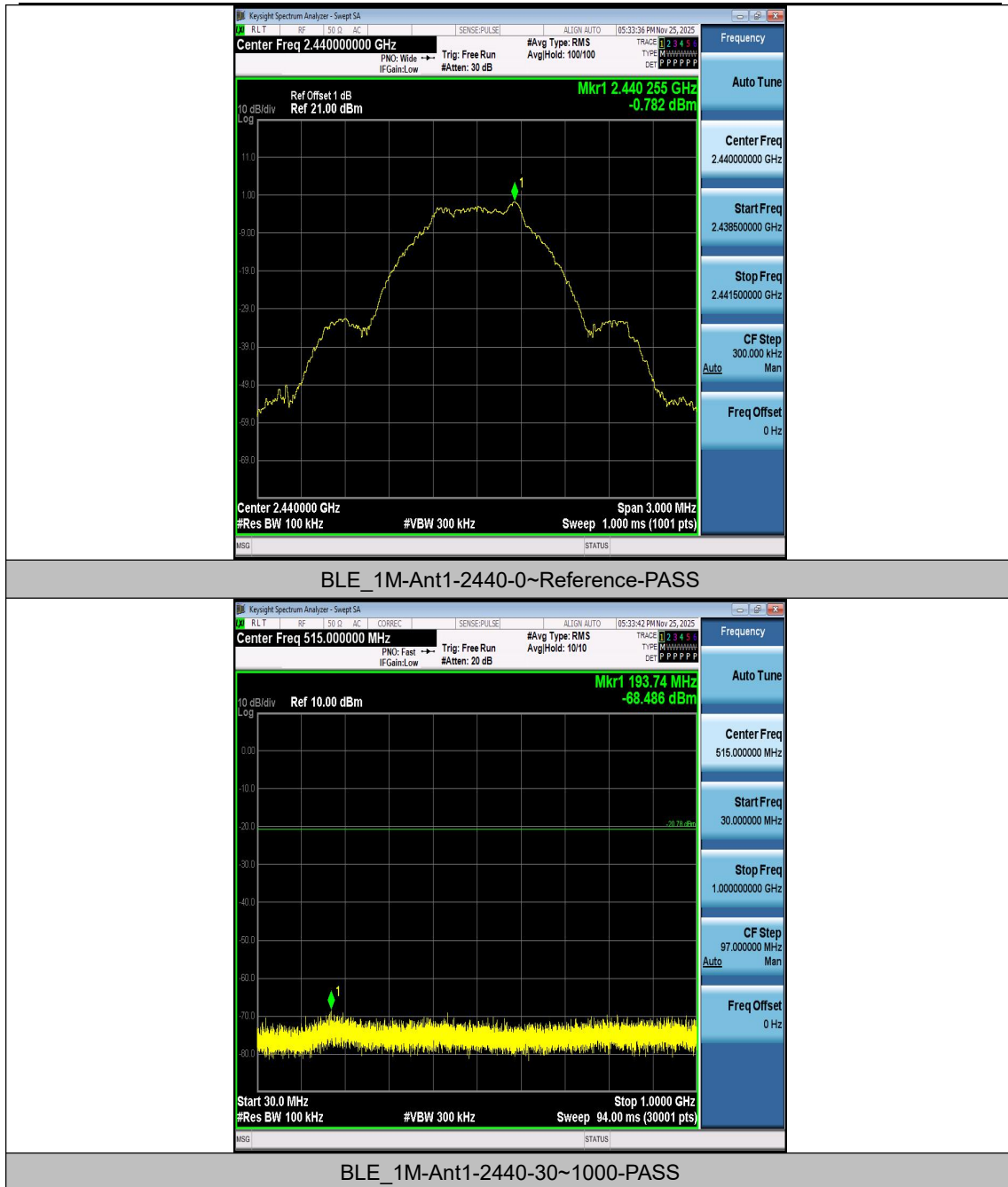




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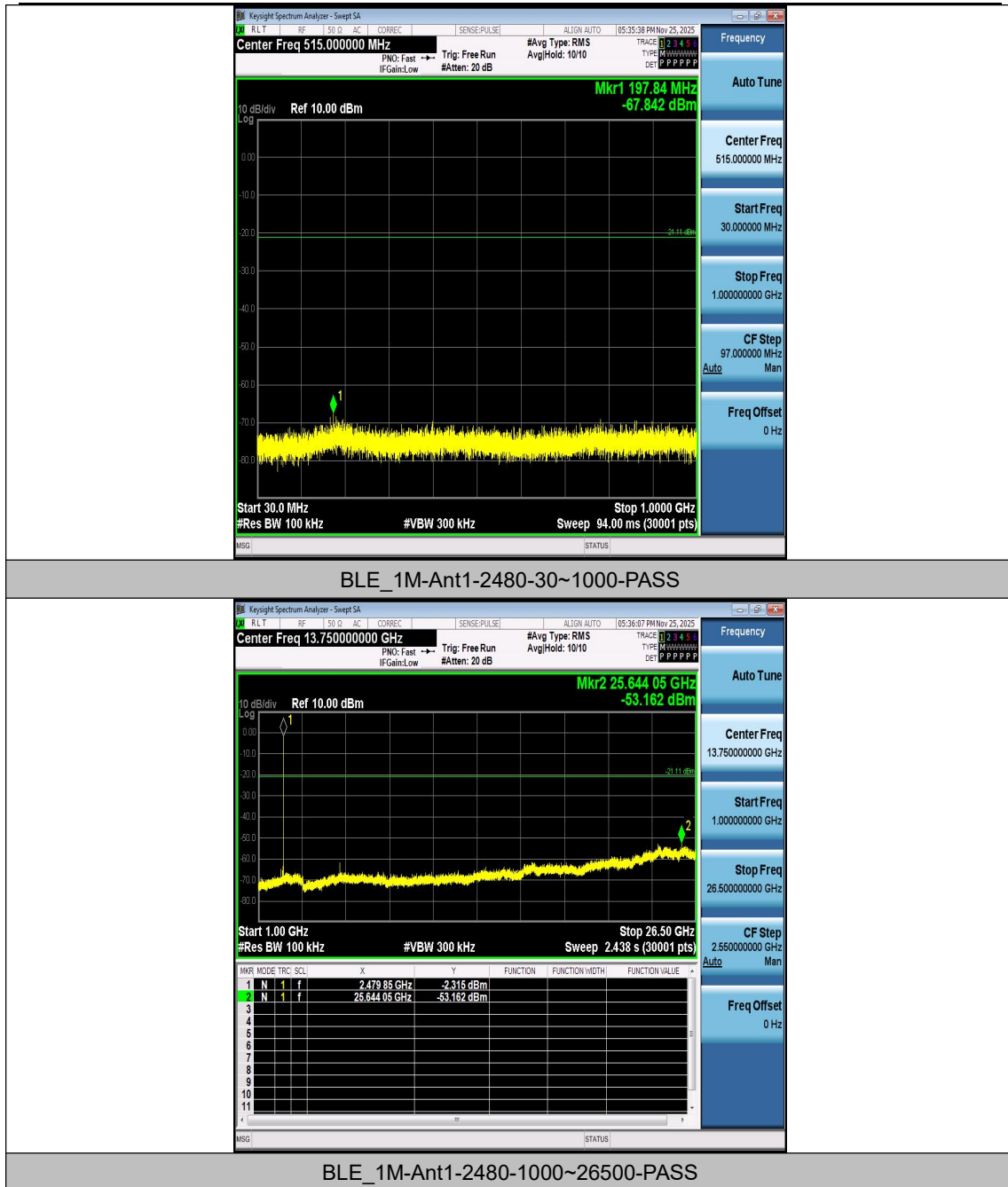
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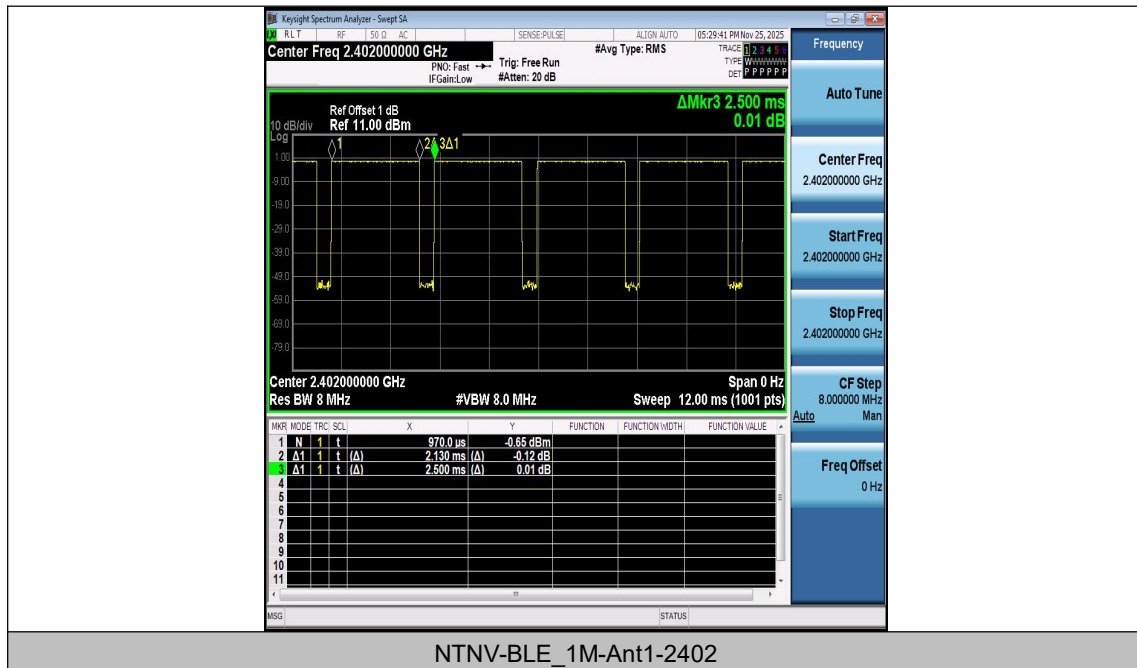
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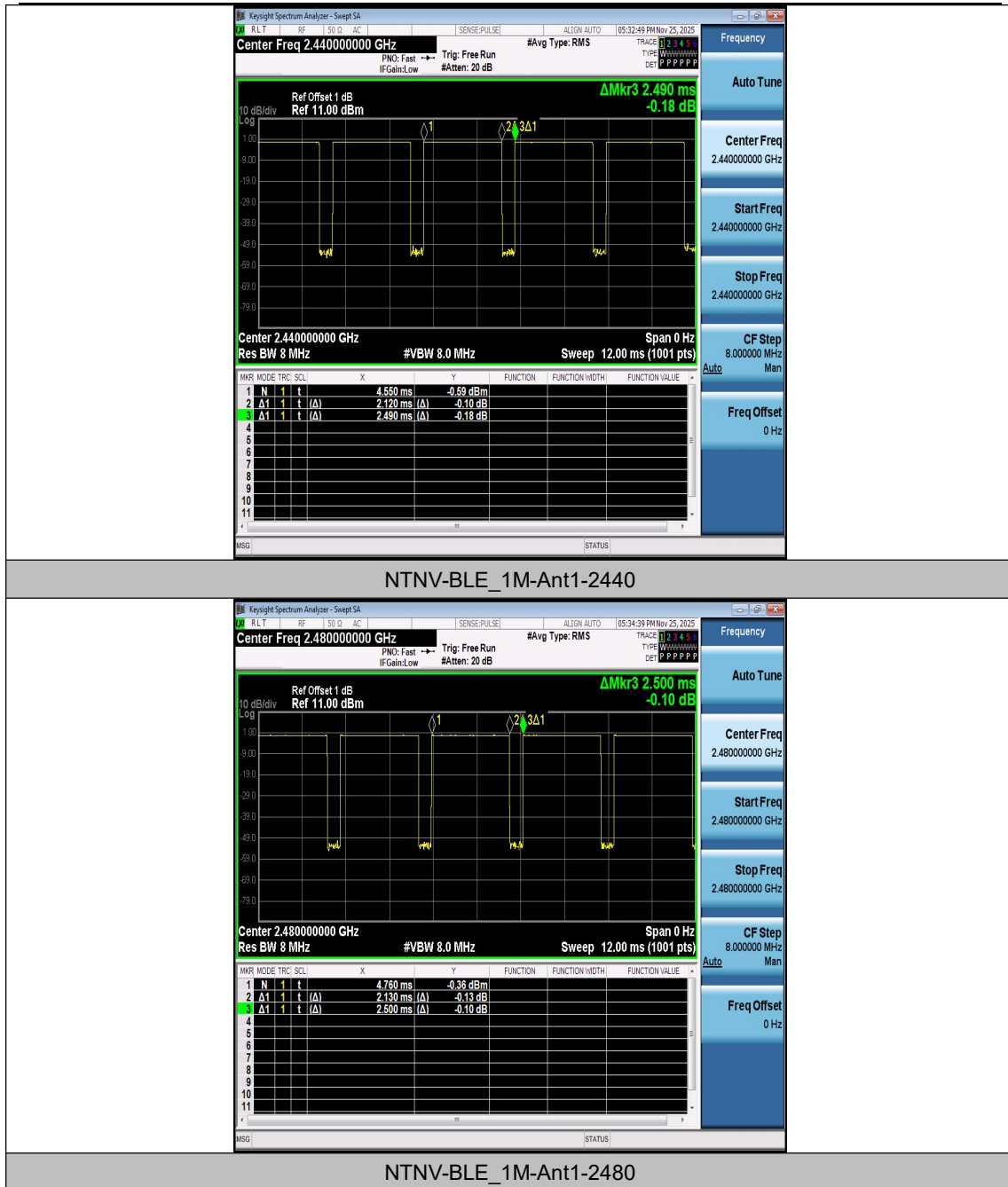
Appendix G: Duty Cycle

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	2.12	2.49	85.14	0.70
BLE_1M	Ant1	2480	2.13	2.50	85.20	0.70

Test Graphs





---End---