

Appendix Test Data

Report No.:	1811C50401012501-01	Test Sample No.:	1-2-2
Start Test Date:	2025-10-22	Finish Test Date:	2025-10-23
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24.3°C	Relative Humidity:	54.7%
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	2401.672	2402.340	0.5	PASS
BLE_1M	Ant1	2440	0.676	2439.676	2440.352	0.5	PASS
BLE_1M	Ant1	2480	0.692	2479.656	2480.348	0.5	PASS

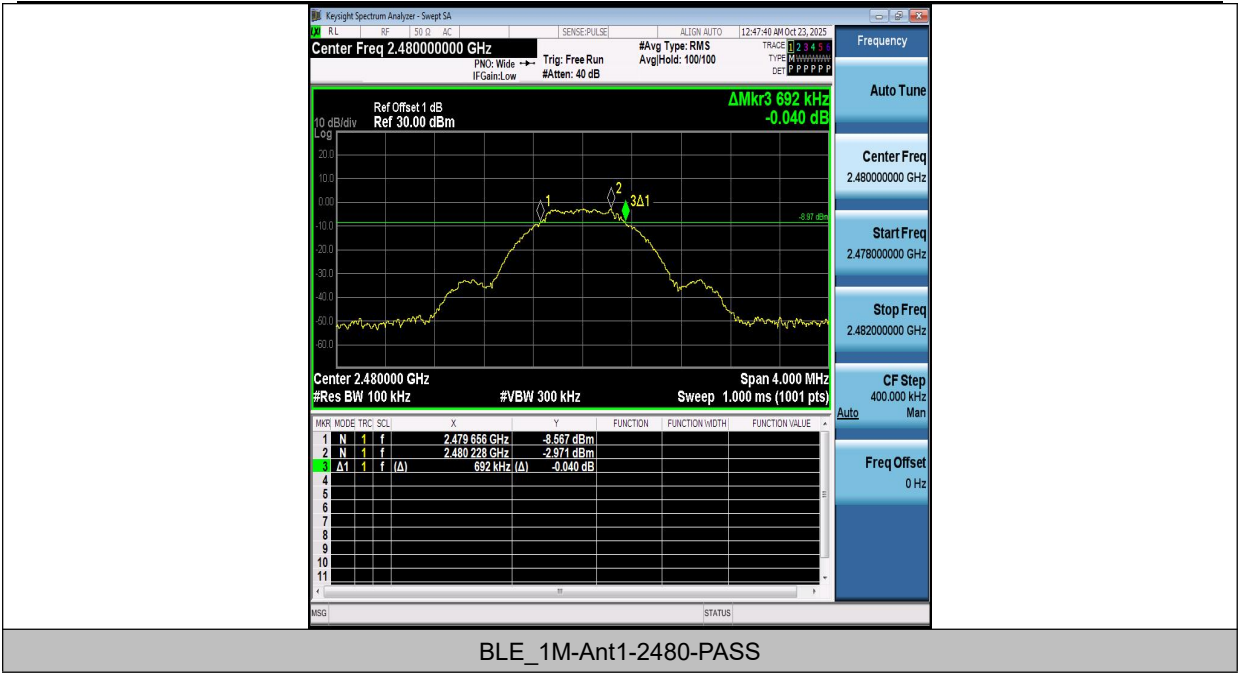
Test Graphs



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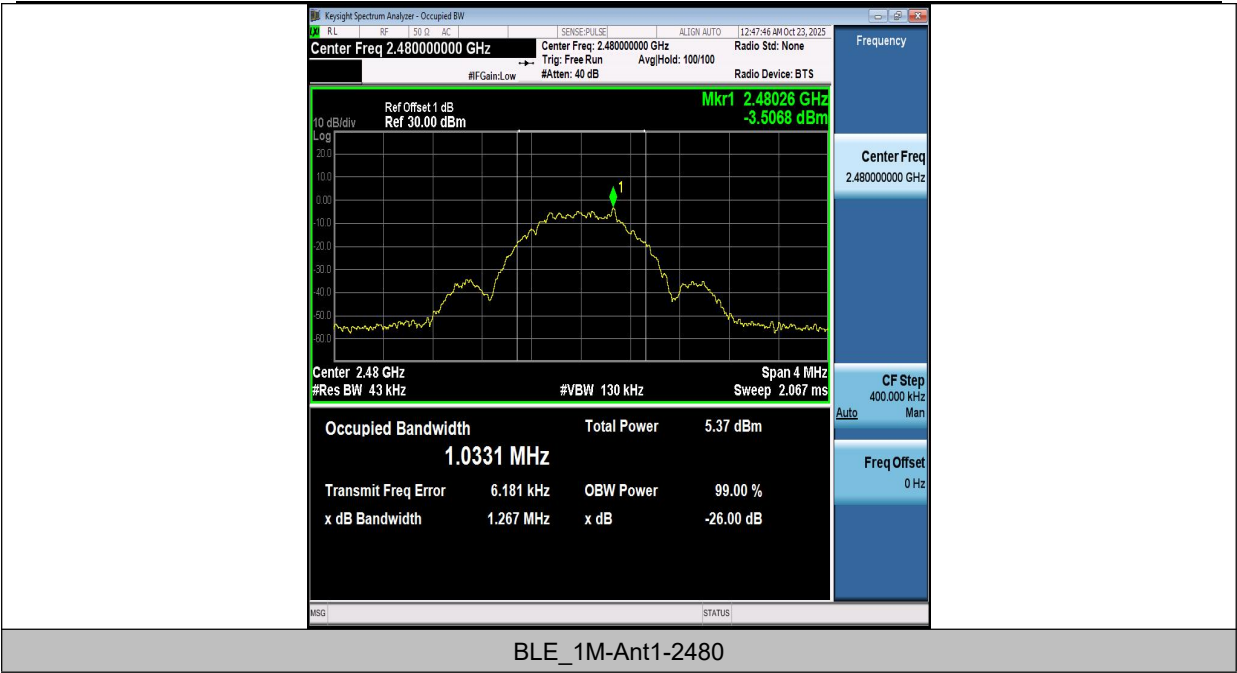
Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0332	2401.4900	2402.5232	---	---
BLE_1M	Ant1	2440	1.0427	2439.4848	2440.5275	---	---
BLE_1M	Ant1	2480	1.0331	2479.4896	2480.5227	---	---

Test Graphs





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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	-1.89	≤30	PASS
BLE_1M	Ant1	2440	-1.62	≤30	PASS
BLE_1M	Ant1	2480	-1.49	≤30	PASS

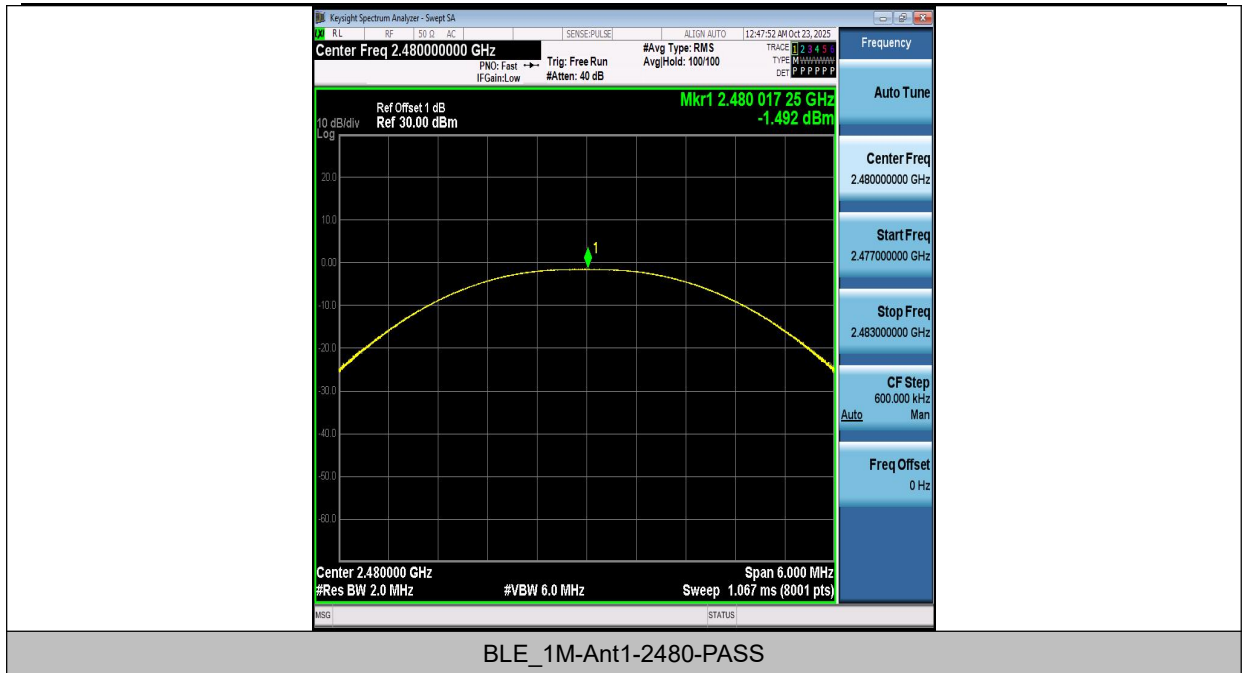
Test Graphs Peak



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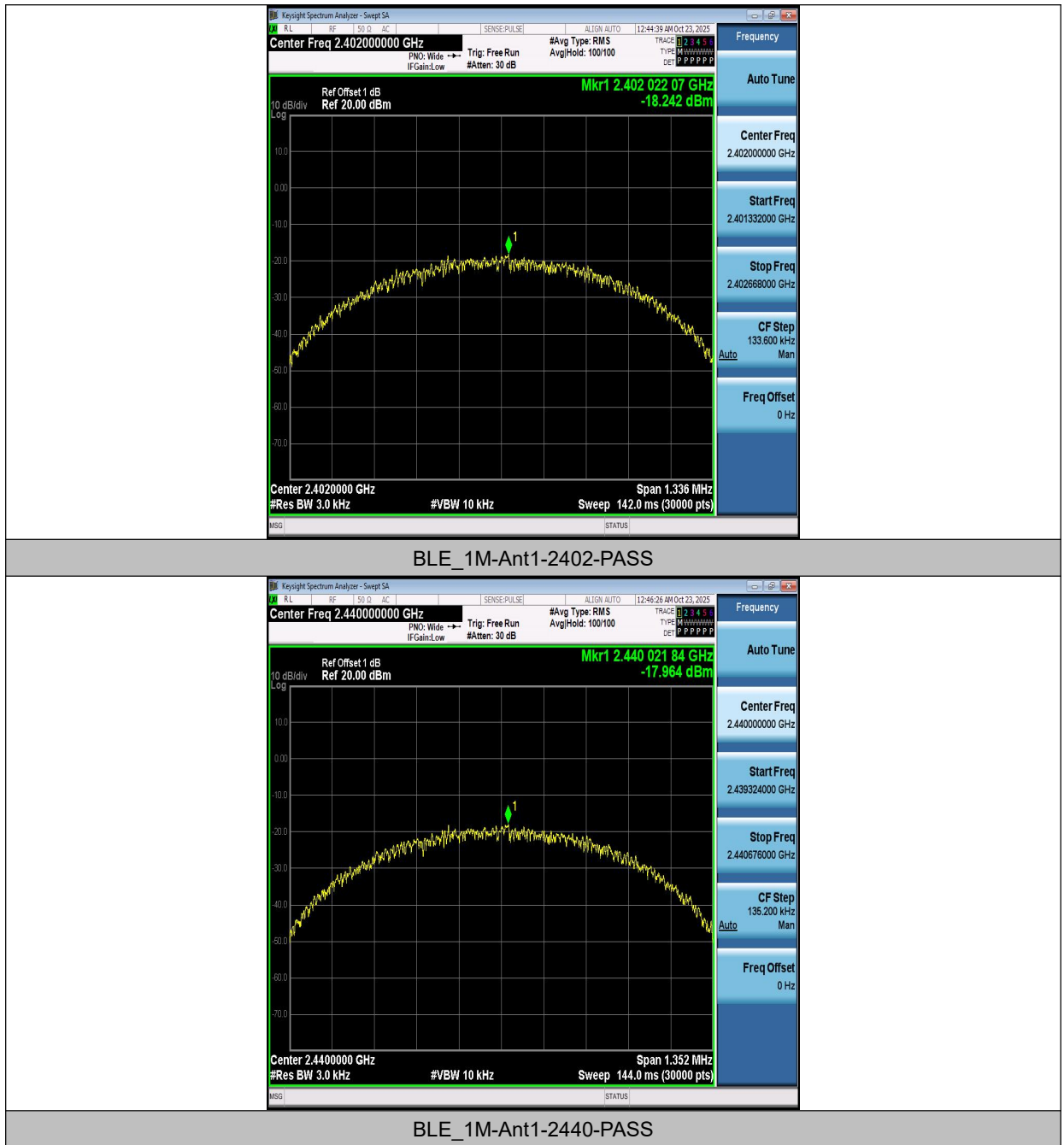
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.24	≤8.00	PASS
BLE_1M	Ant1	2440	-17.96	≤8.00	PASS
BLE_1M	Ant1	2480	-17.78	≤8.00	PASS

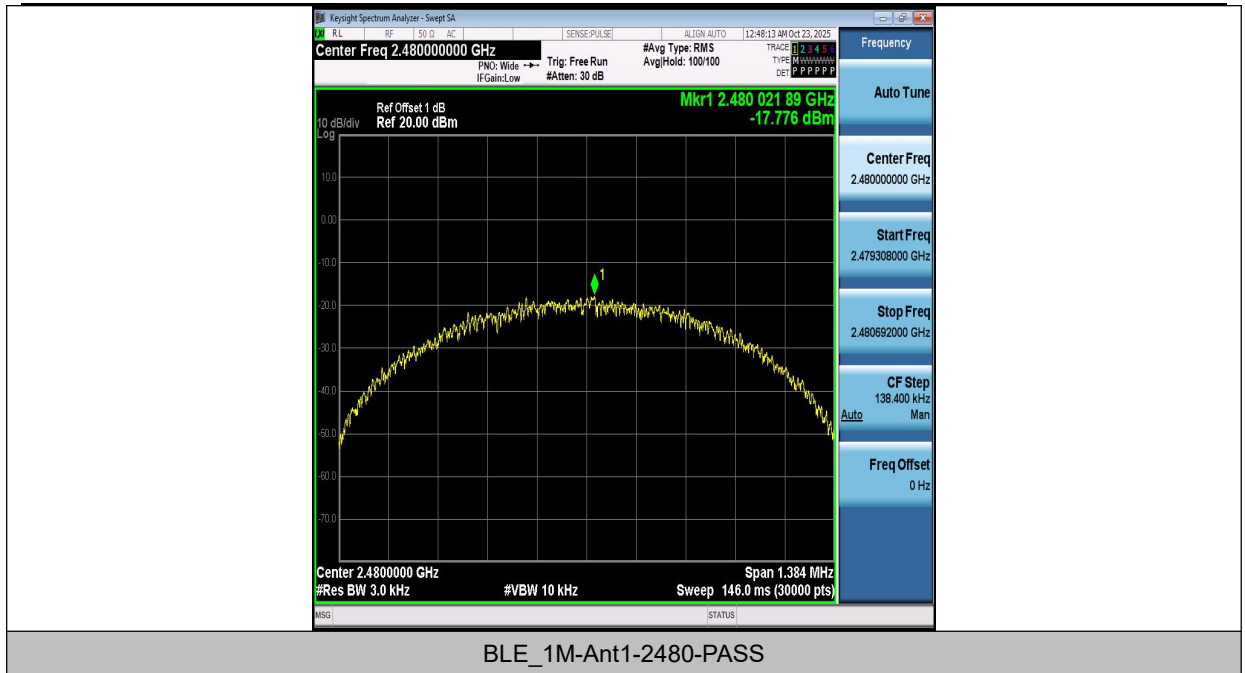
Test Graphs



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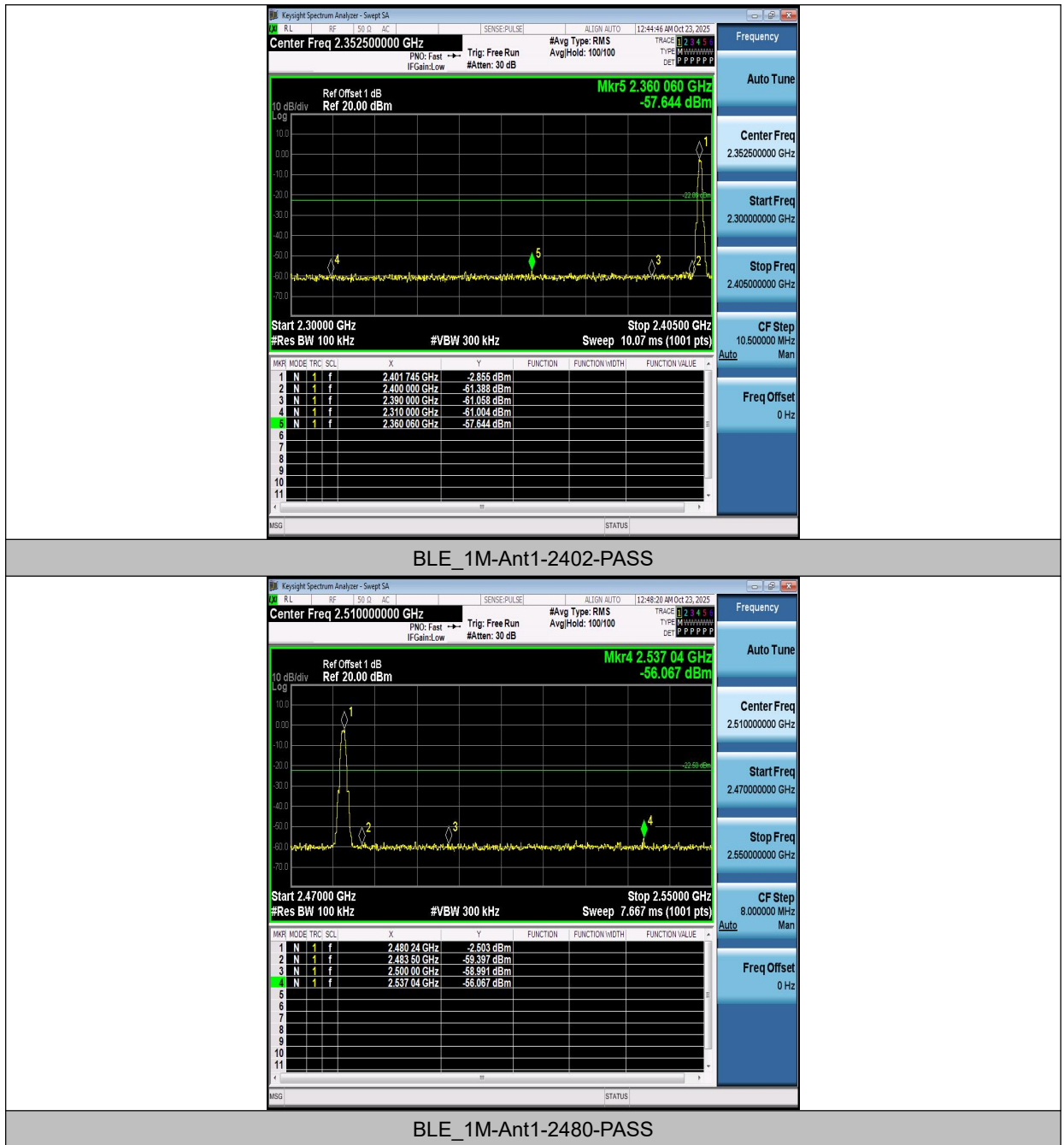
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.86	-57.64	≤-22.86	PASS
BLE_1M	Ant1	High	2480	-2.50	-56.07	≤-22.5	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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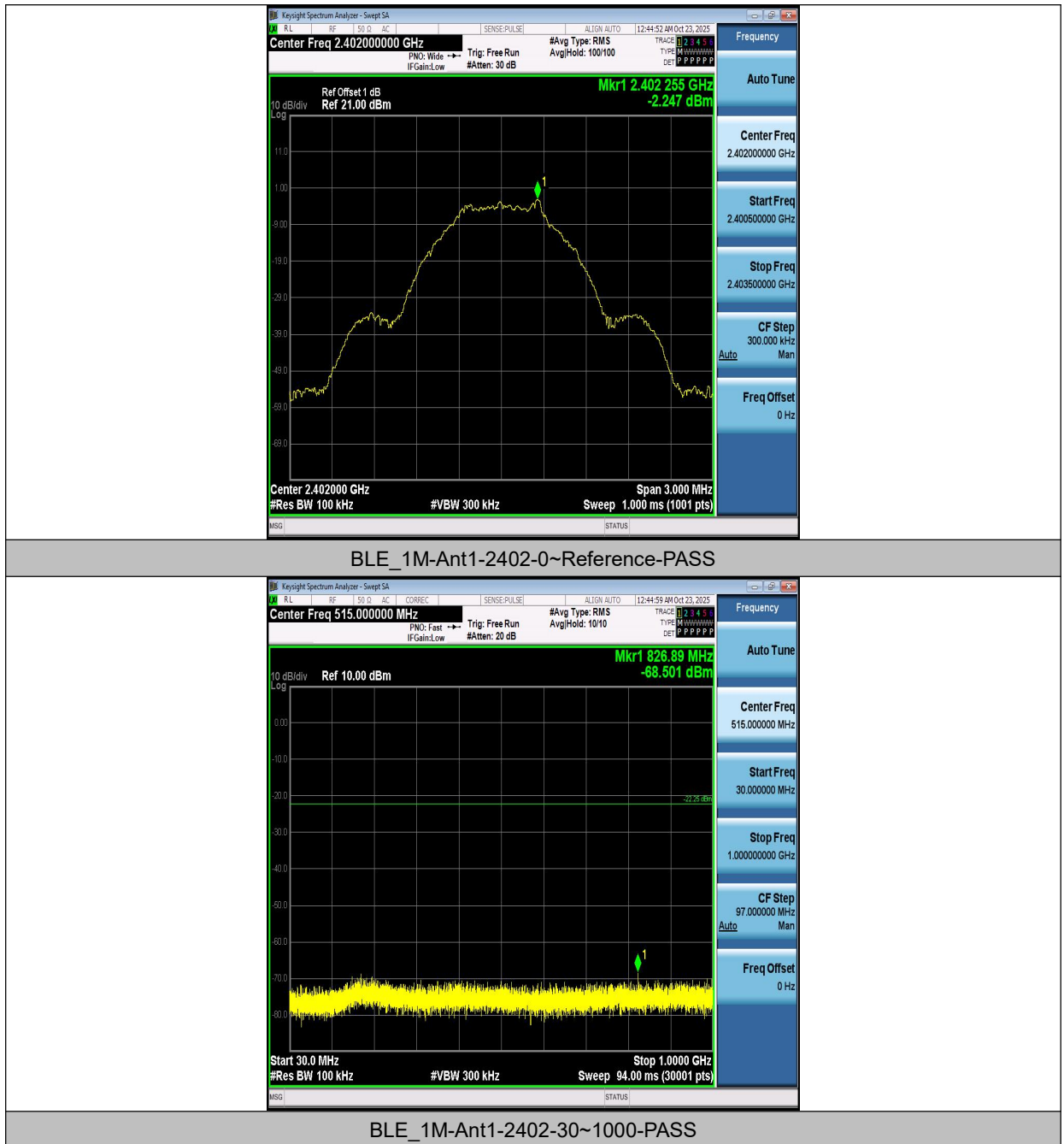
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-2.25	-2.25	---	PASS
BLE_1M	Ant1	2402	30~1000	-2.25	-68.5	≤-22.25	PASS
BLE_1M	Ant1	2402	1000~26500	-2.25	-52.46	≤-22.25	PASS
BLE_1M	Ant1	2440	0~Reference	-1.97	-1.97	---	PASS
BLE_1M	Ant1	2440	30~1000	-1.97	-69.18	≤-21.97	PASS
BLE_1M	Ant1	2440	1000~26500	-1.97	-53.68	≤-21.97	PASS
BLE_1M	Ant1	2480	0~Reference	-2.62	-2.62	---	PASS
BLE_1M	Ant1	2480	30~1000	-2.62	-69.3	≤-22.62	PASS
BLE_1M	Ant1	2480	1000~26500	-2.62	-53.81	≤-22.62	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

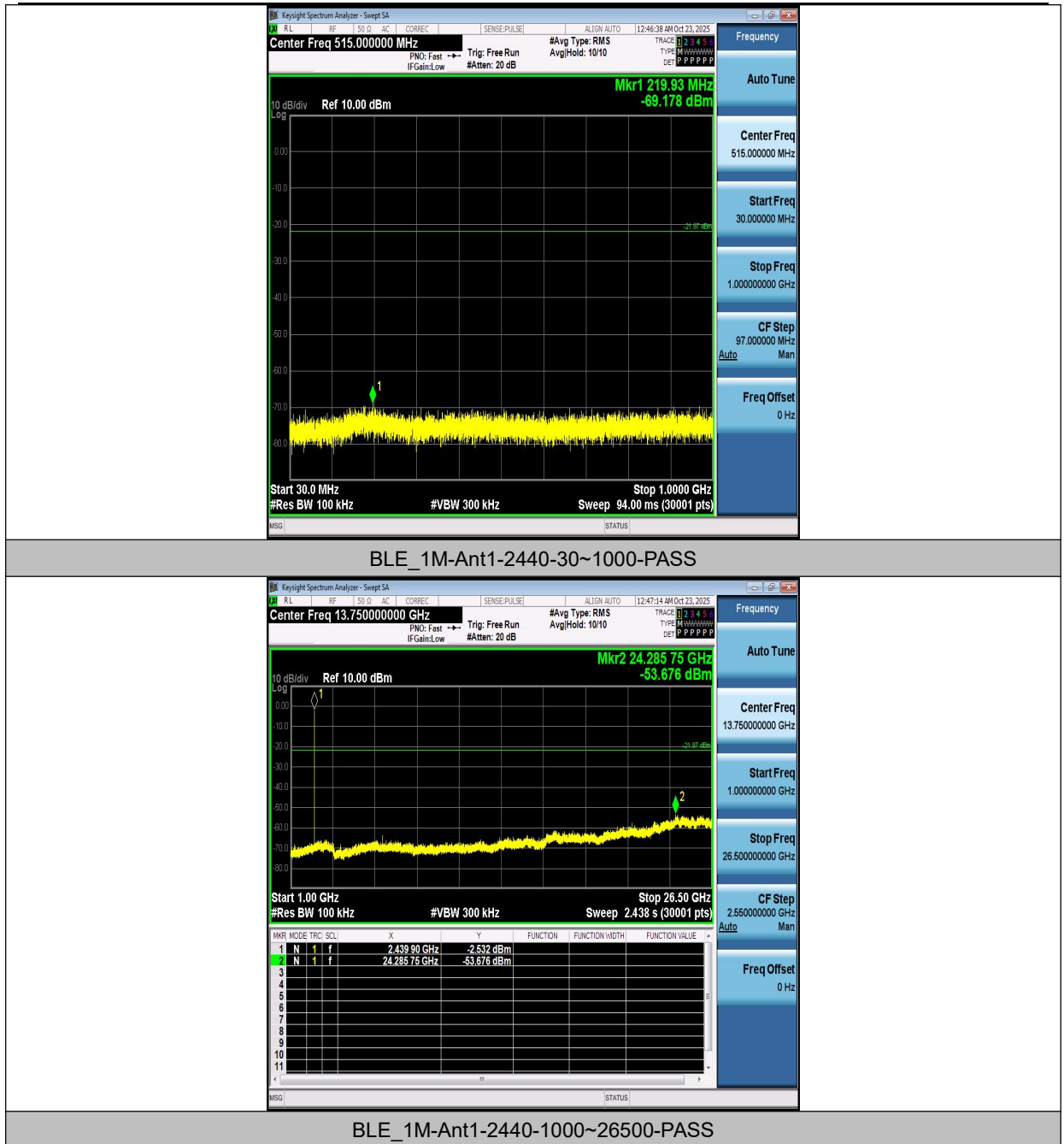


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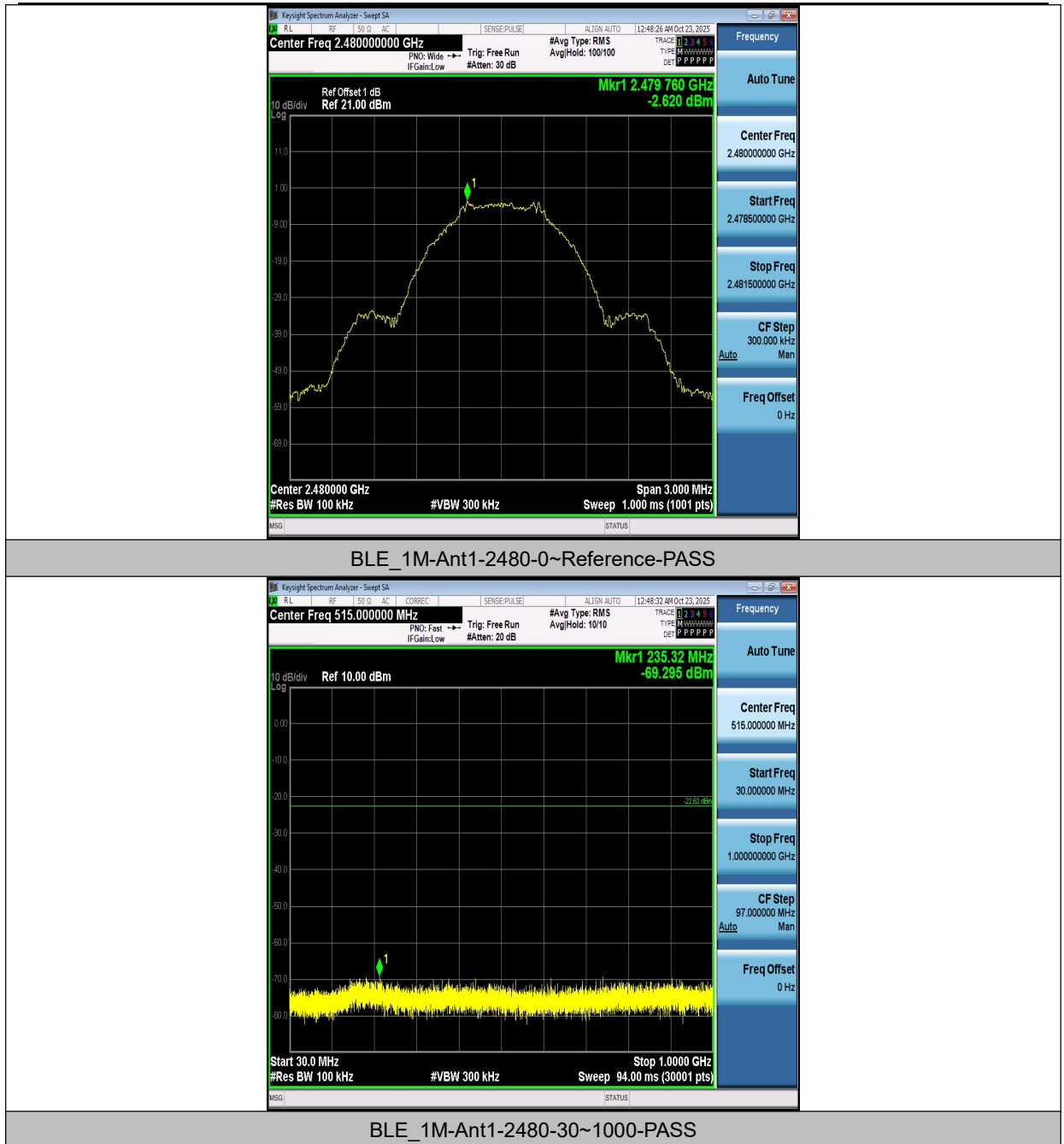




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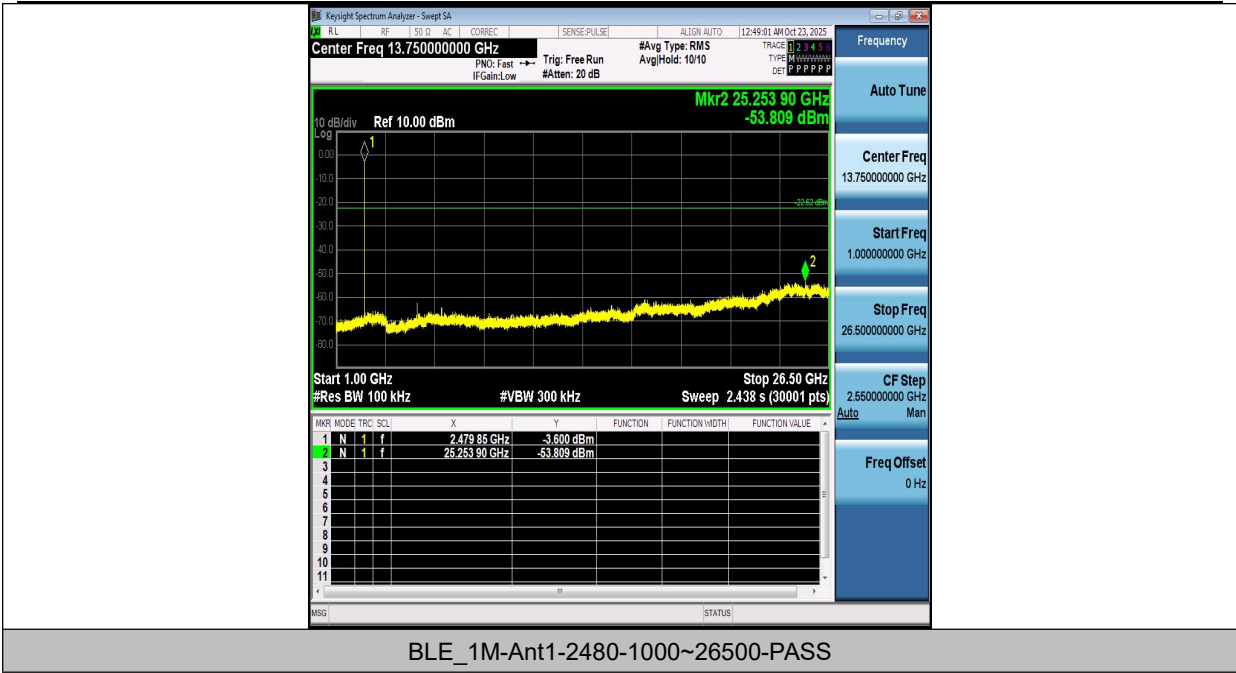
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Appendix G: Duty Cycle

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	2.12	2.50	84.80	0.72

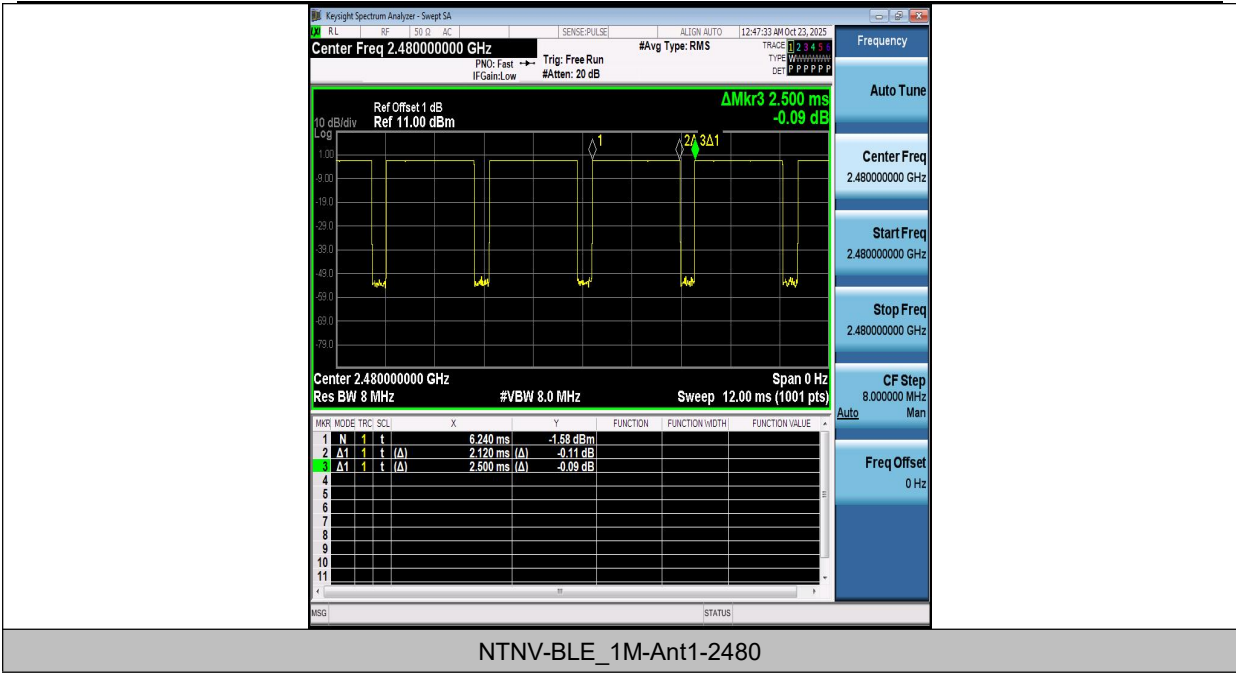
Test Graphs



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