

Appendix Test Data

Report No.:	1812C50102512501	Test Sample No.:	1-2-2
Start Test Date:	2025-04-07	Finish Test Date:	2025-04-07
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	22.4°C	Relative Humidity:	43%
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	0.672	2401.660	2402.332	0.5	PASS
BLE_1M	Ant1	2440	0.664	2439.660	2440.324	0.5	PASS
BLE_1M	Ant1	2480	0.676	2479.644	2480.320	0.5	PASS



Test Graphs





BLE_1M-Ant1-2480-PASS

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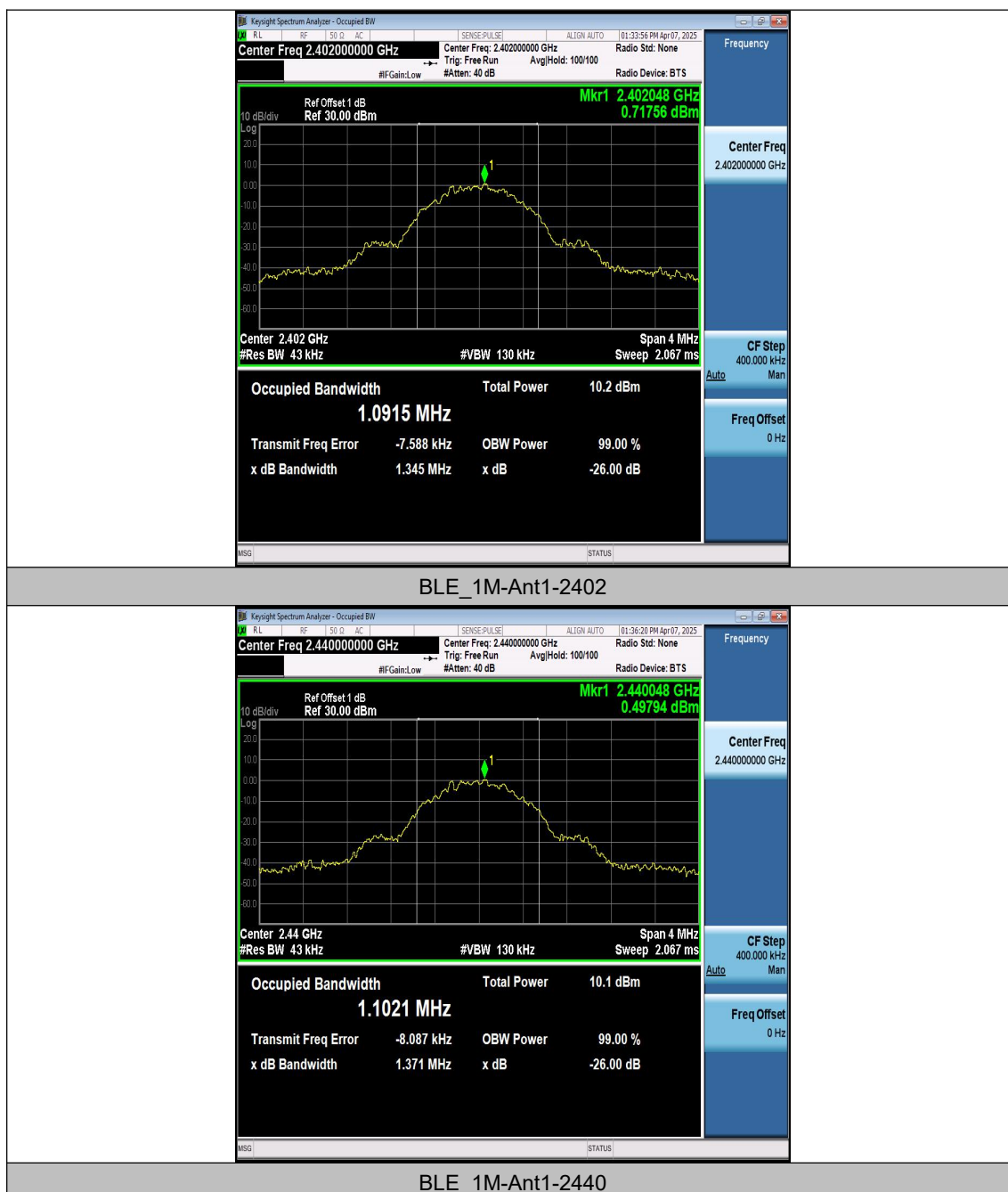
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Appendix B: 99% Occupied Bandwidth

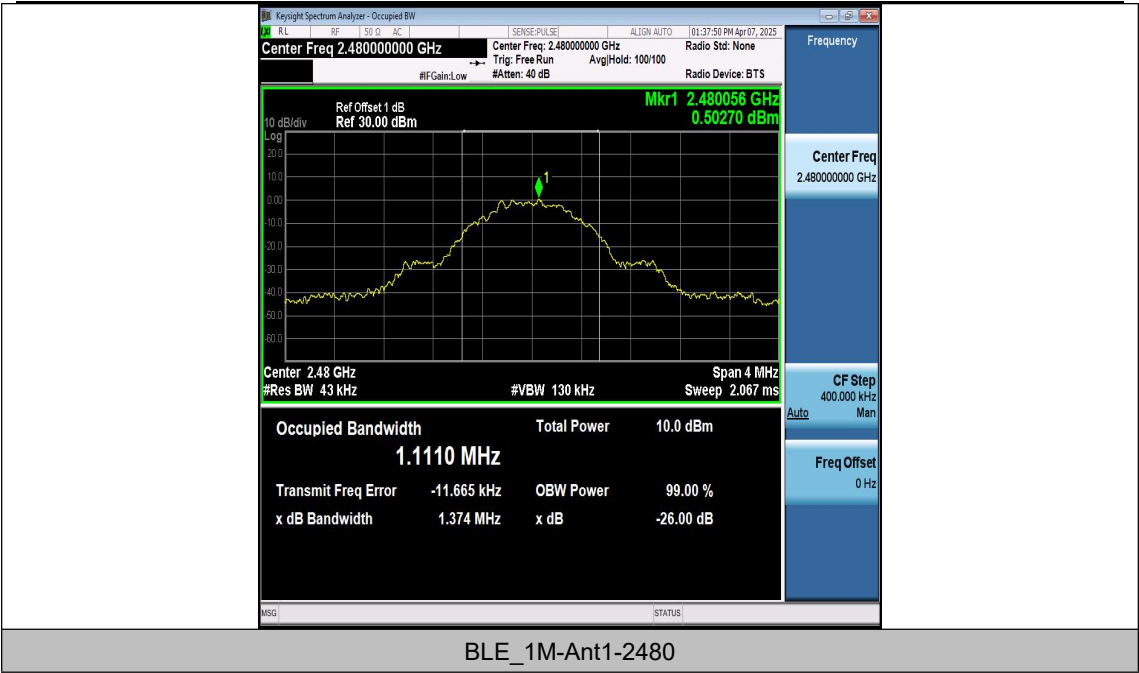
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0915	2401.4467	2402.5382	---	---
BLE_1M	Ant1	2440	1.1021	2439.4409	2440.5430	---	---
BLE_1M	Ant1	2480	1.1110	2479.4328	2480.5438	---	---

Test Graphs



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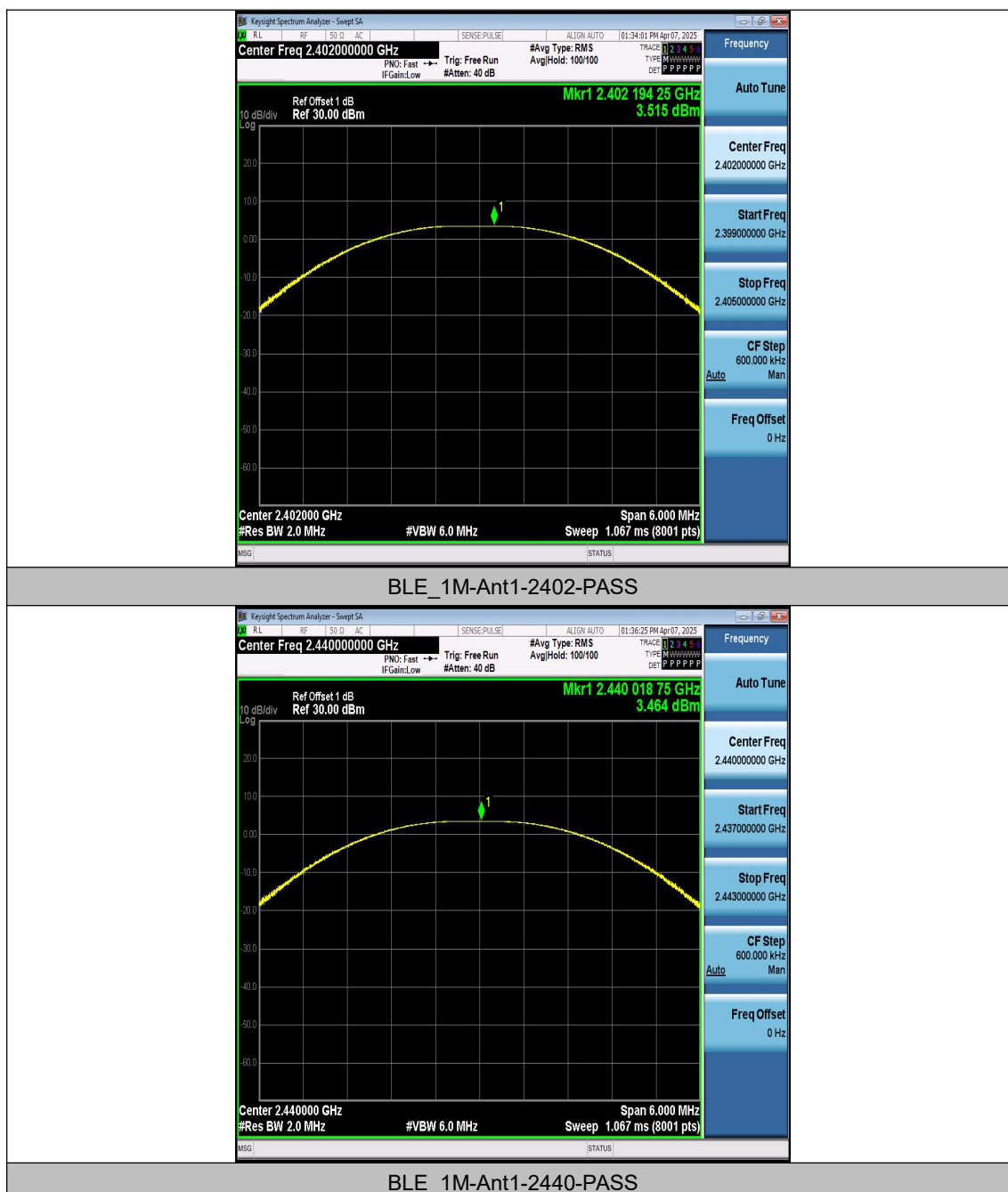
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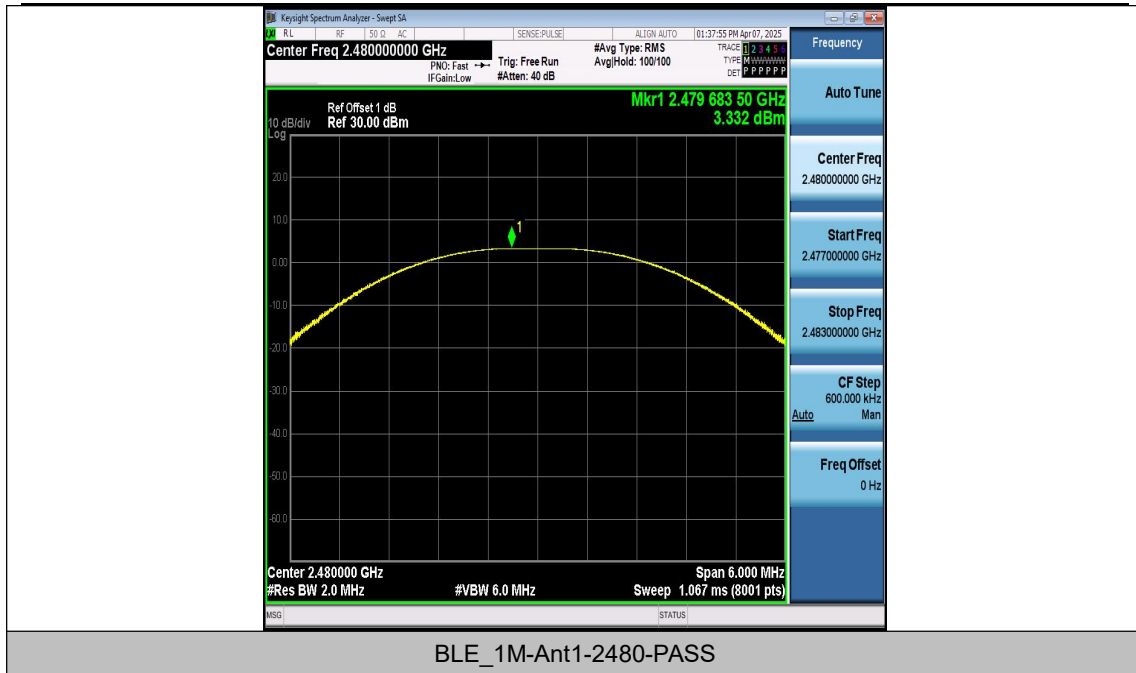
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.52	≤30	PASS
BLE_1M	Ant1	2440	3.46	≤30	PASS
BLE_1M	Ant1	2480	3.33	≤30	PASS

Test Graphs Peak





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Appendix D: Maximum power spectral density

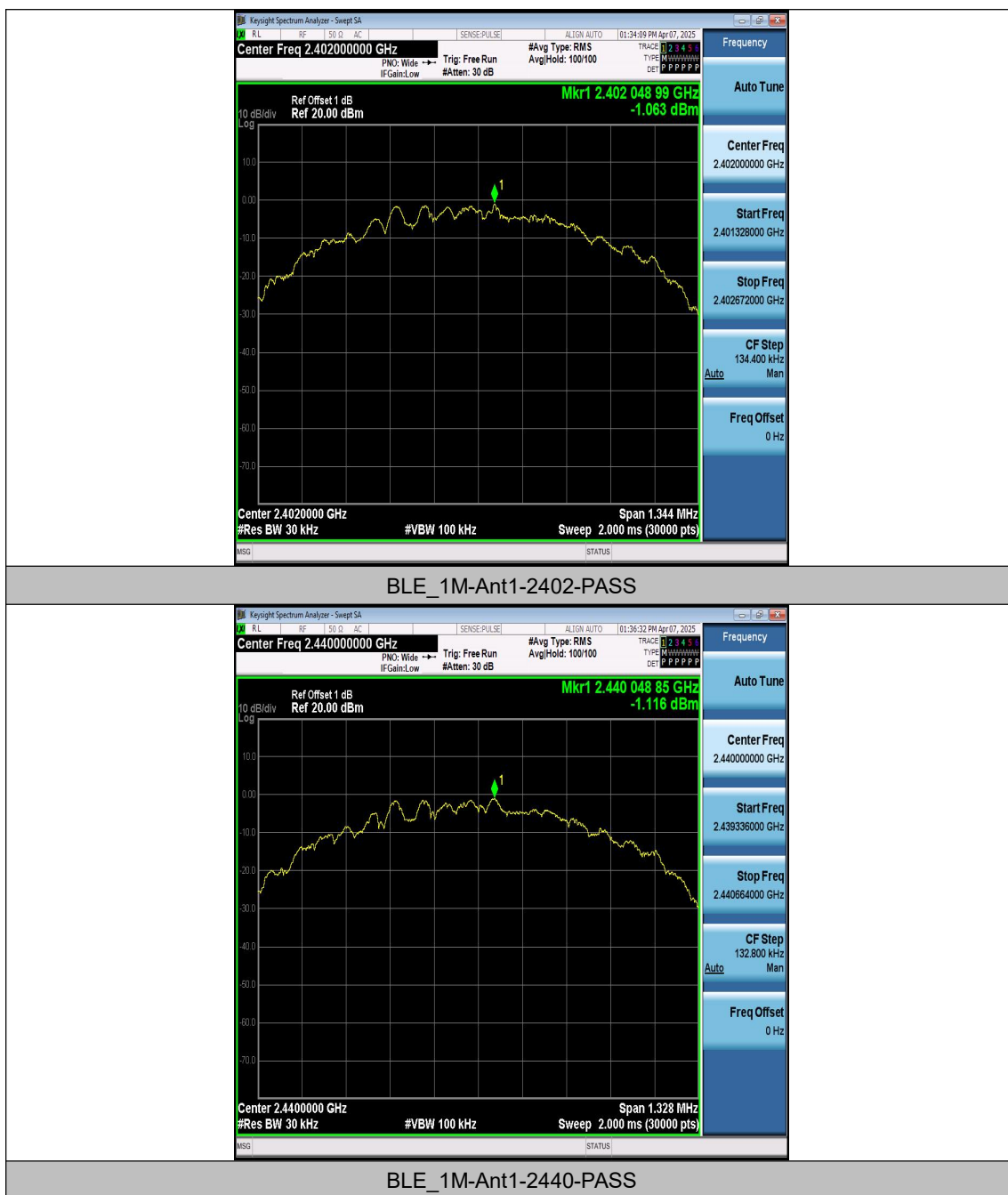
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-1.06	-10.06	≤8.00	PASS
BLE_1M	Ant1	2440	-1.12	-10.12	≤8.00	PASS
BLE_1M	Ant1	2480	-1.26	-10.26	≤8.00	PASS

Note: $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3))$.



Test Graphs



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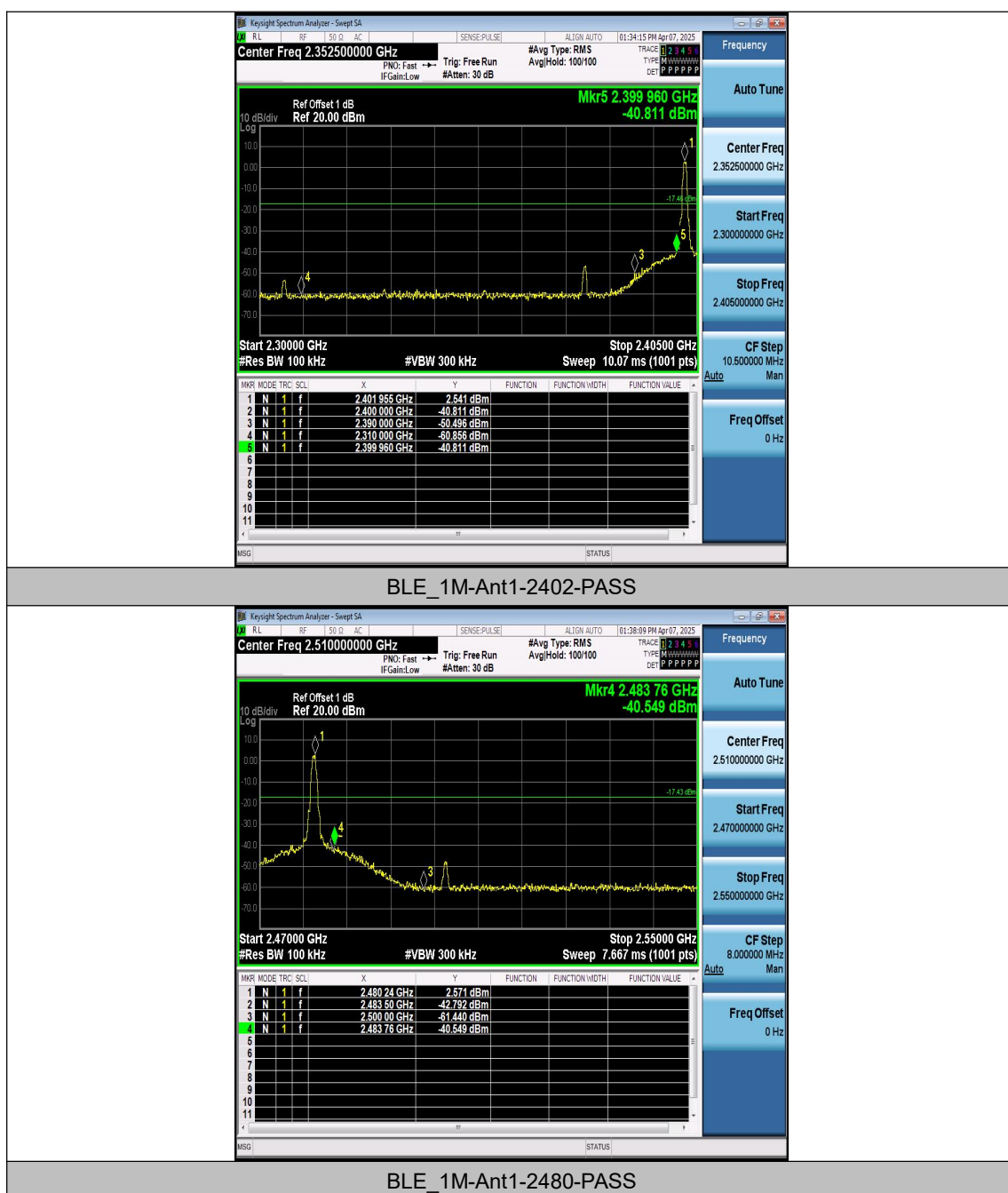
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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.54	-40.81	≤-17.46	PASS
BLE_1M	Ant1	High	2480	2.57	-40.55	≤-17.43	PASS

Test Graphs



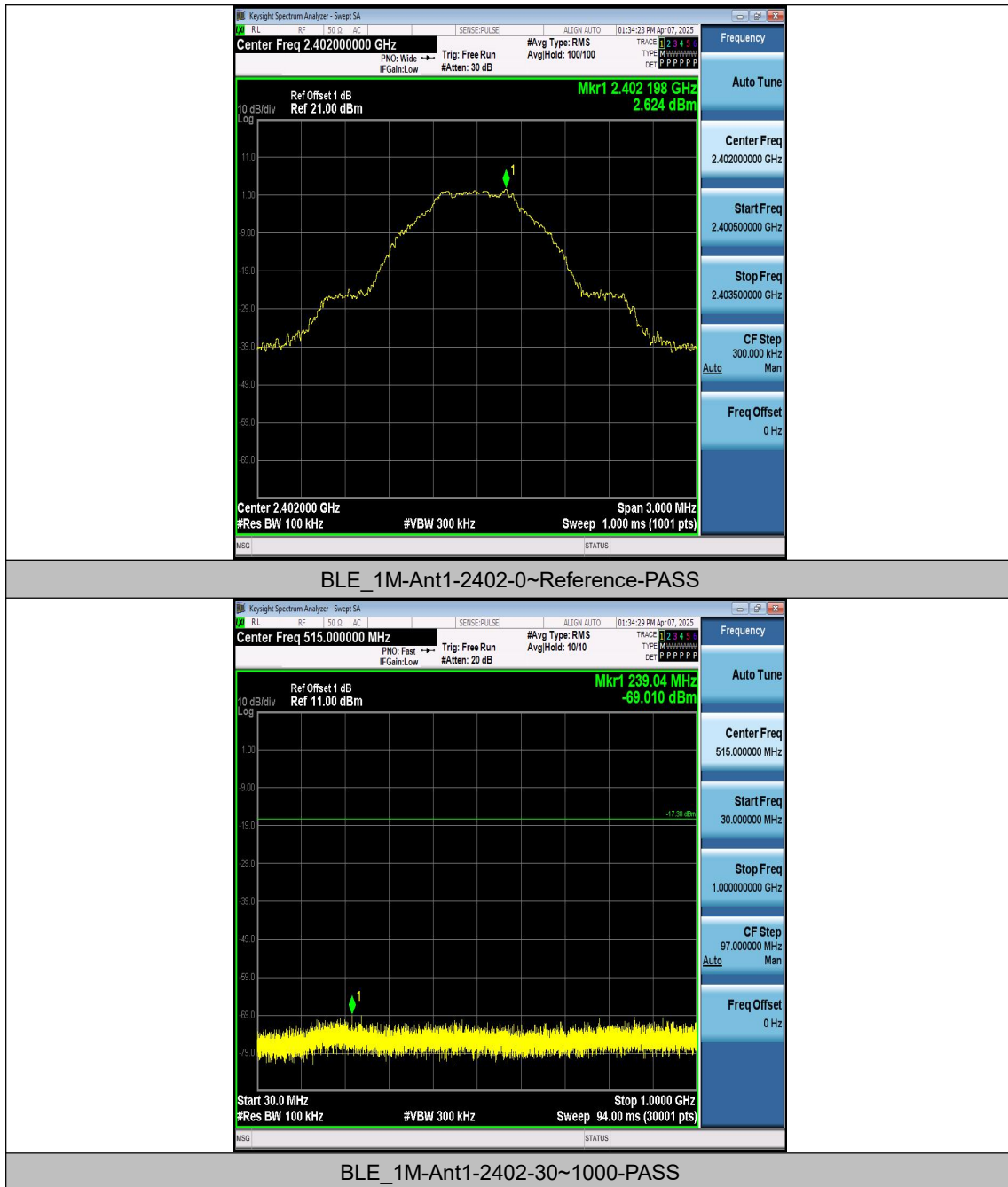
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	2.62	2.62	---	PASS
BLE_1M	Ant1	2402	30~1000	2.62	-69.01	≤-17.38	PASS
BLE_1M	Ant1	2402	1000~26500	2.62	-37.37	≤-17.38	PASS
BLE_1M	Ant1	2440	0~Reference	2.51	2.51	---	PASS
BLE_1M	Ant1	2440	30~1000	2.51	-69.3	≤-17.49	PASS
BLE_1M	Ant1	2440	1000~26500	2.51	-36.18	≤-17.49	PASS
BLE_1M	Ant1	2480	0~Reference	2.46	2.46	---	PASS
BLE_1M	Ant1	2480	30~1000	2.46	-68.8	≤-17.54	PASS
BLE_1M	Ant1	2480	1000~26500	2.46	-36.76	≤-17.54	PASS



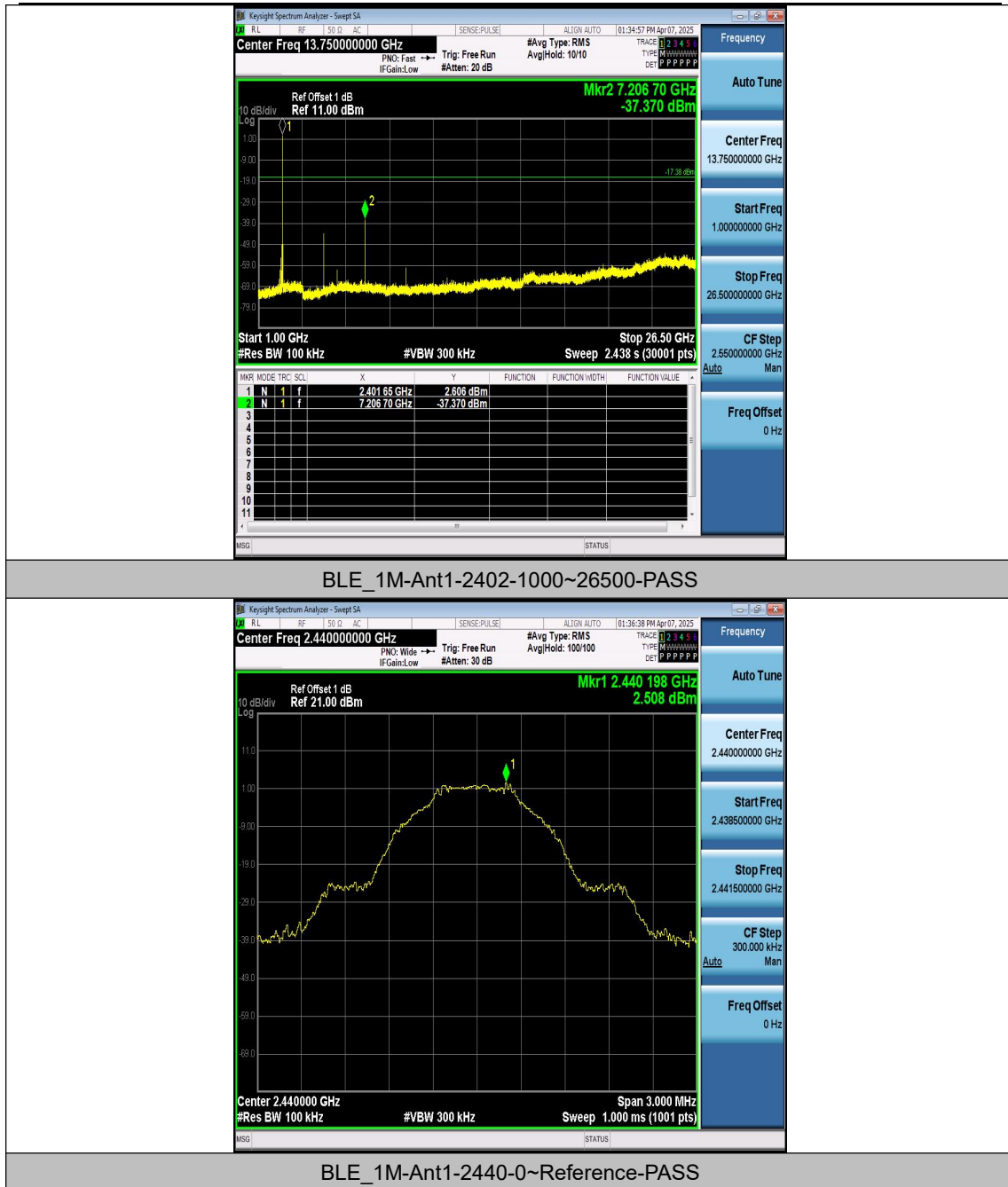
Test Graphs



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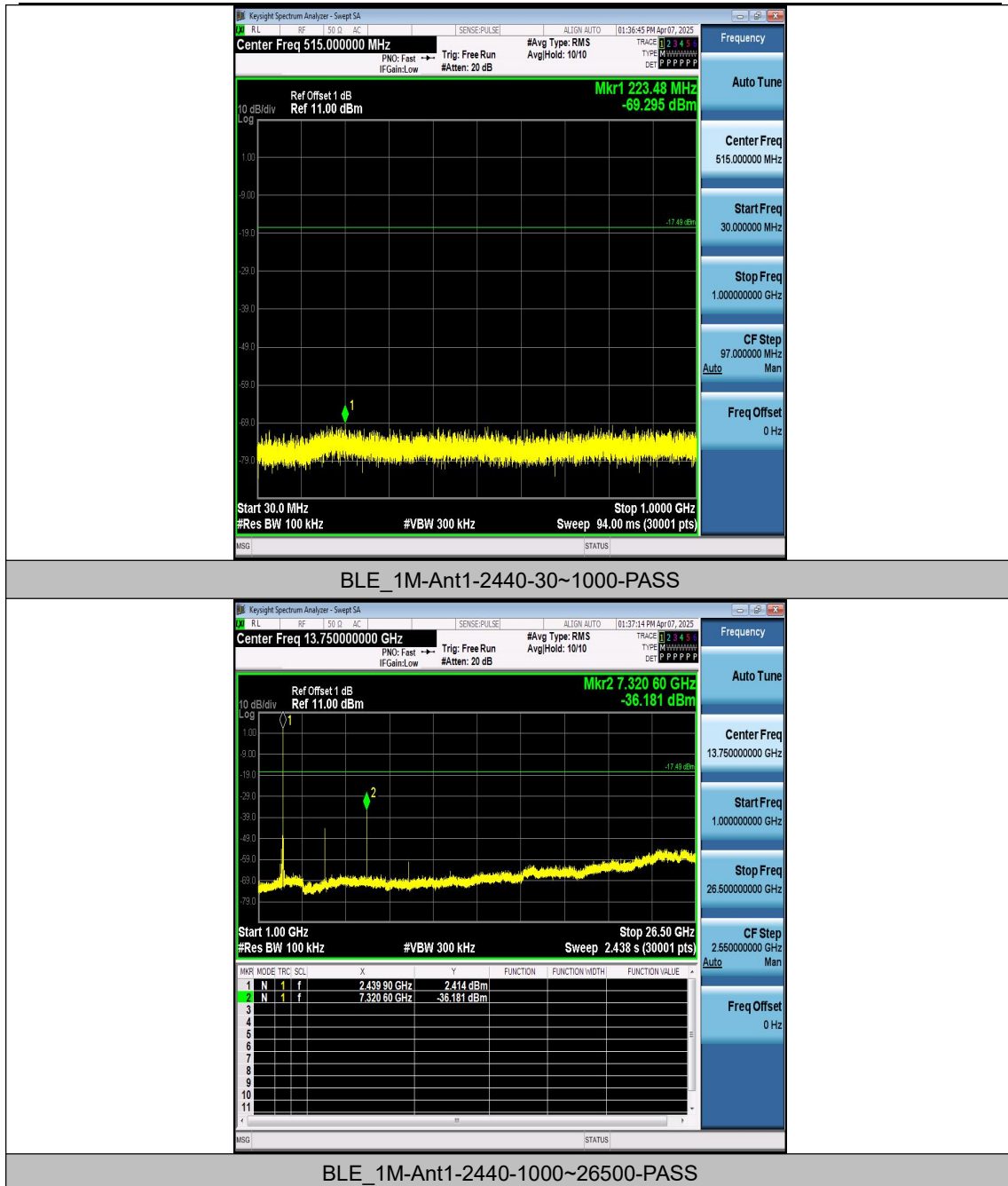


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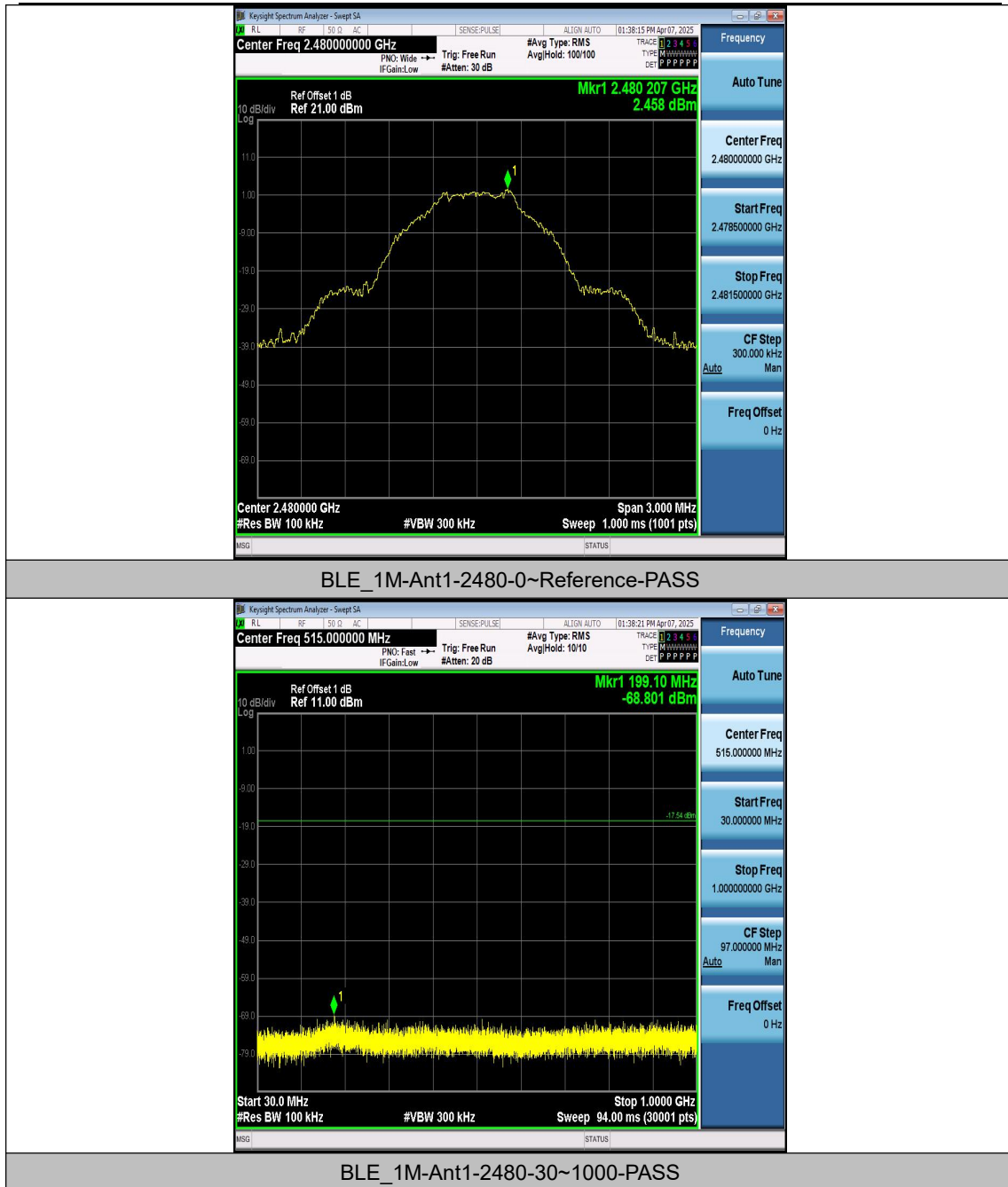
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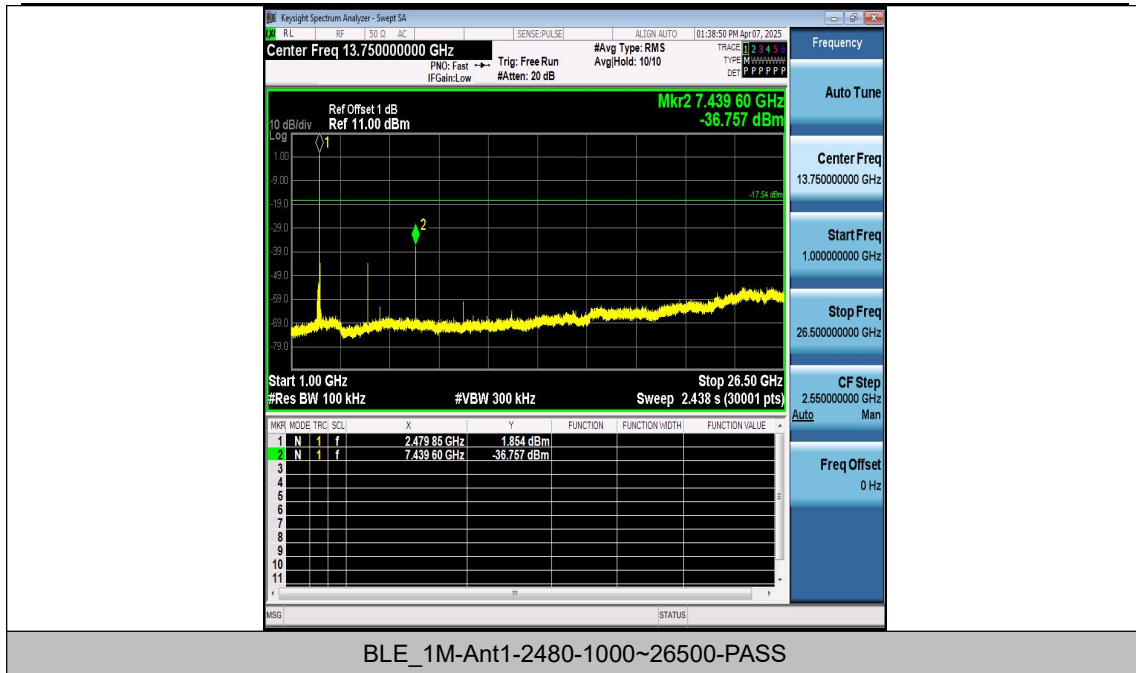
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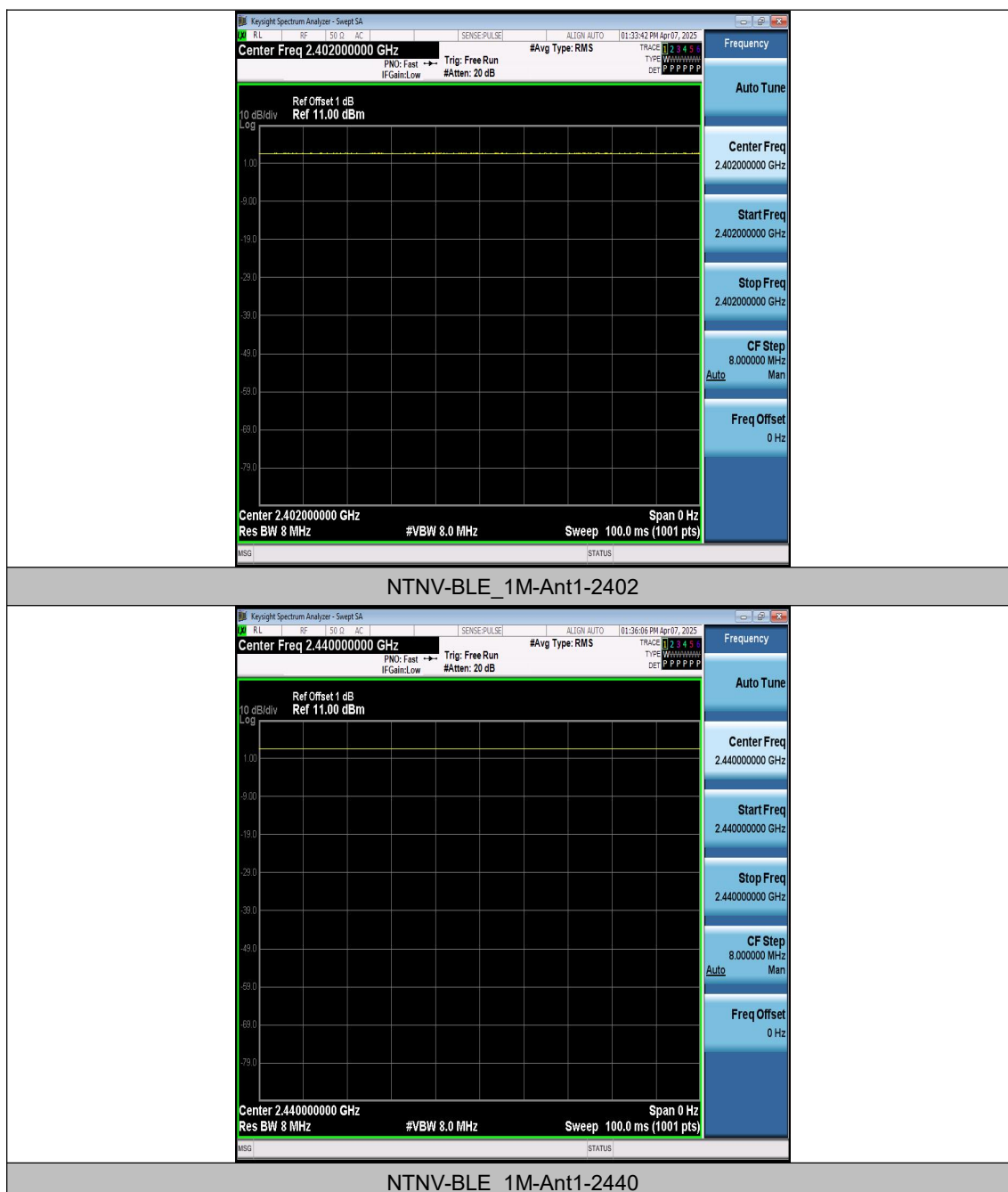
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Appendix G: Duty Cycle

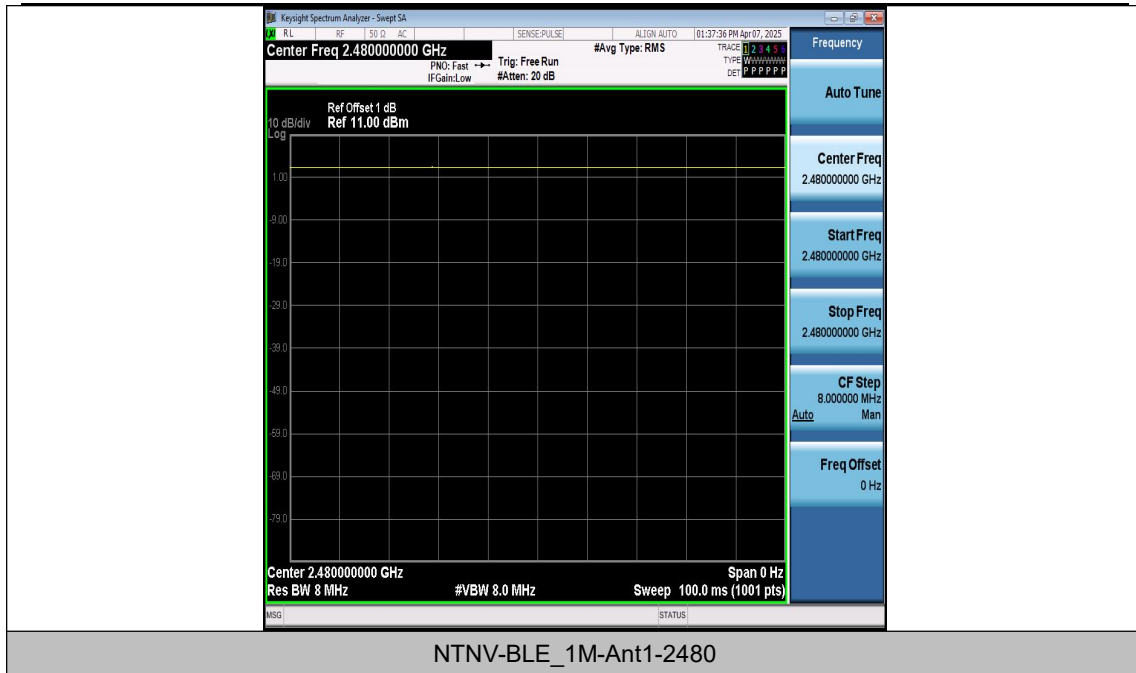
Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.00	0.00	100	0.00
BLE_1M	Ant1	2440	0.00	0.00	100	0.00
BLE_1M	Ant1	2480	0.00	0.00	100	0.00

Test Graphs



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