

Appendix Test Data

Report No.:	18220WC40036801	Test Sample No.:	1-2-2
Start Test Date:	2024.3.15	Finish Test Date:	2024.3.15
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25℃	Relative Humidity:	48%
Pressure:	101kPa		

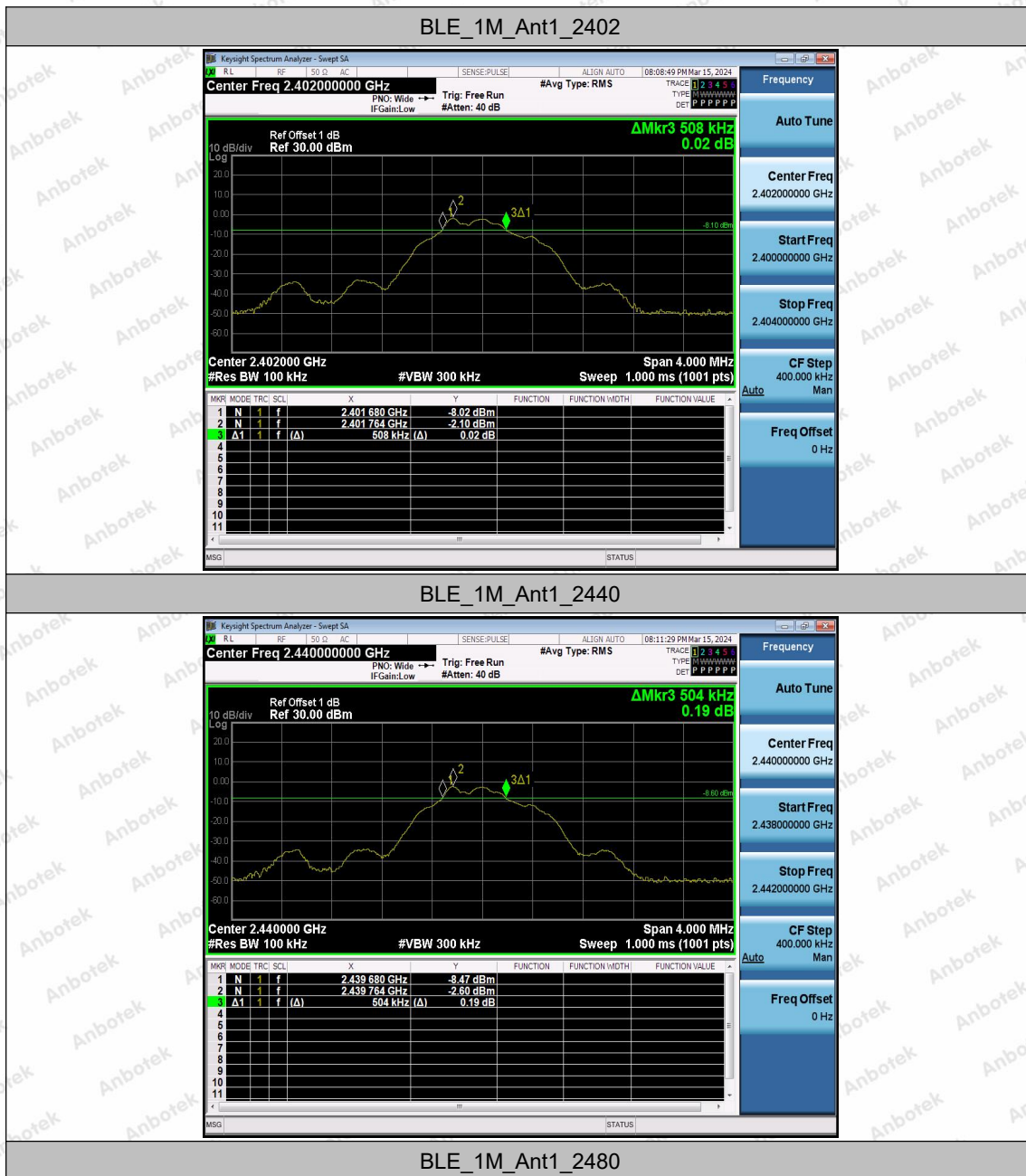
Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.508	2401.680	2402.188	0.5	PASS
		2440	0.504	2439.680	2440.184	0.5	PASS
		2480	0.504	2479.684	2480.188	0.5	PASS



Test Graphs



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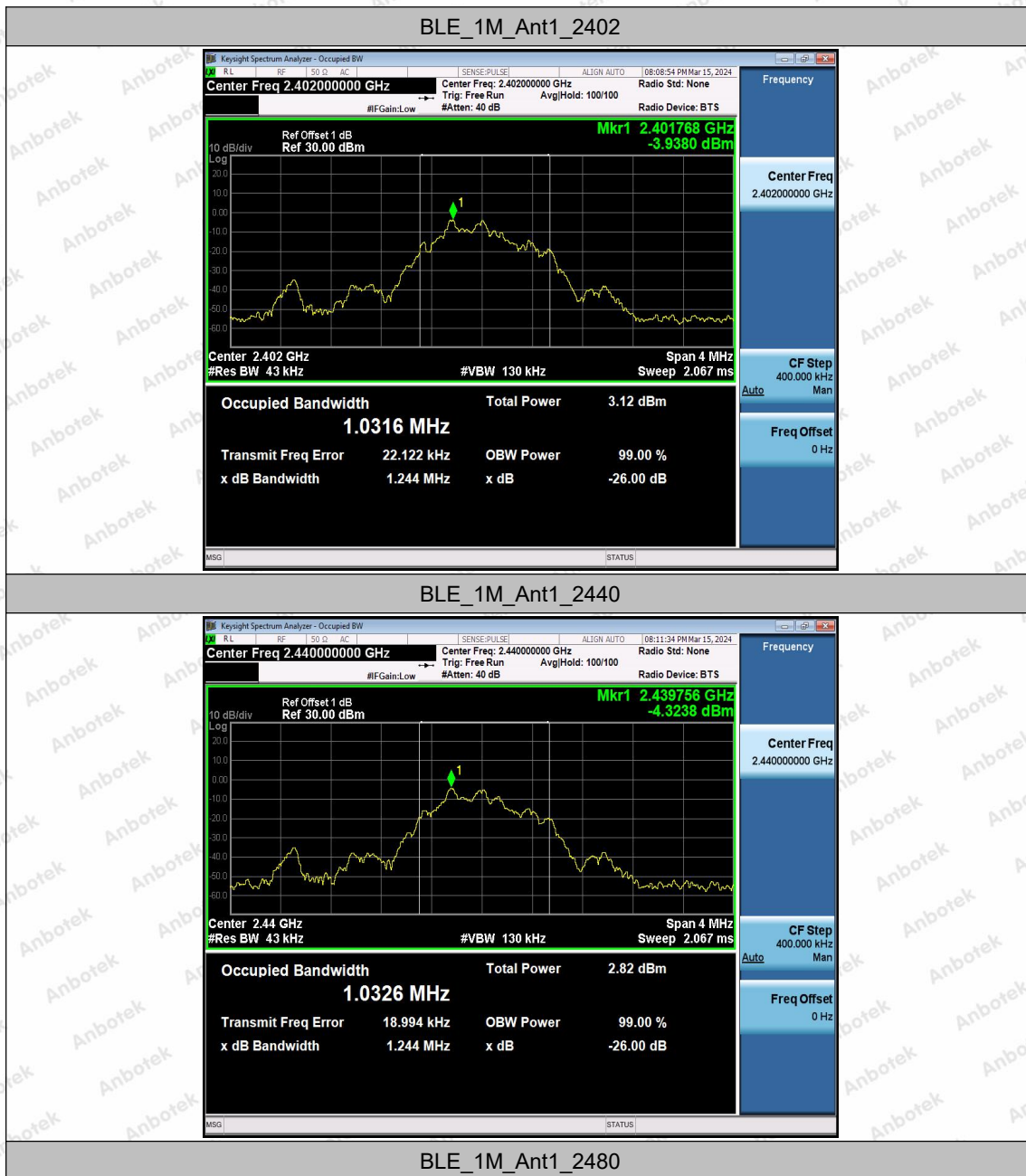
Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0316	2401.5063	2402.5379	---	---
		2440	1.0326	2439.5027	2440.5353	---	---
		2480	1.0209	2479.5066	2480.5275	---	---



Test Graphs



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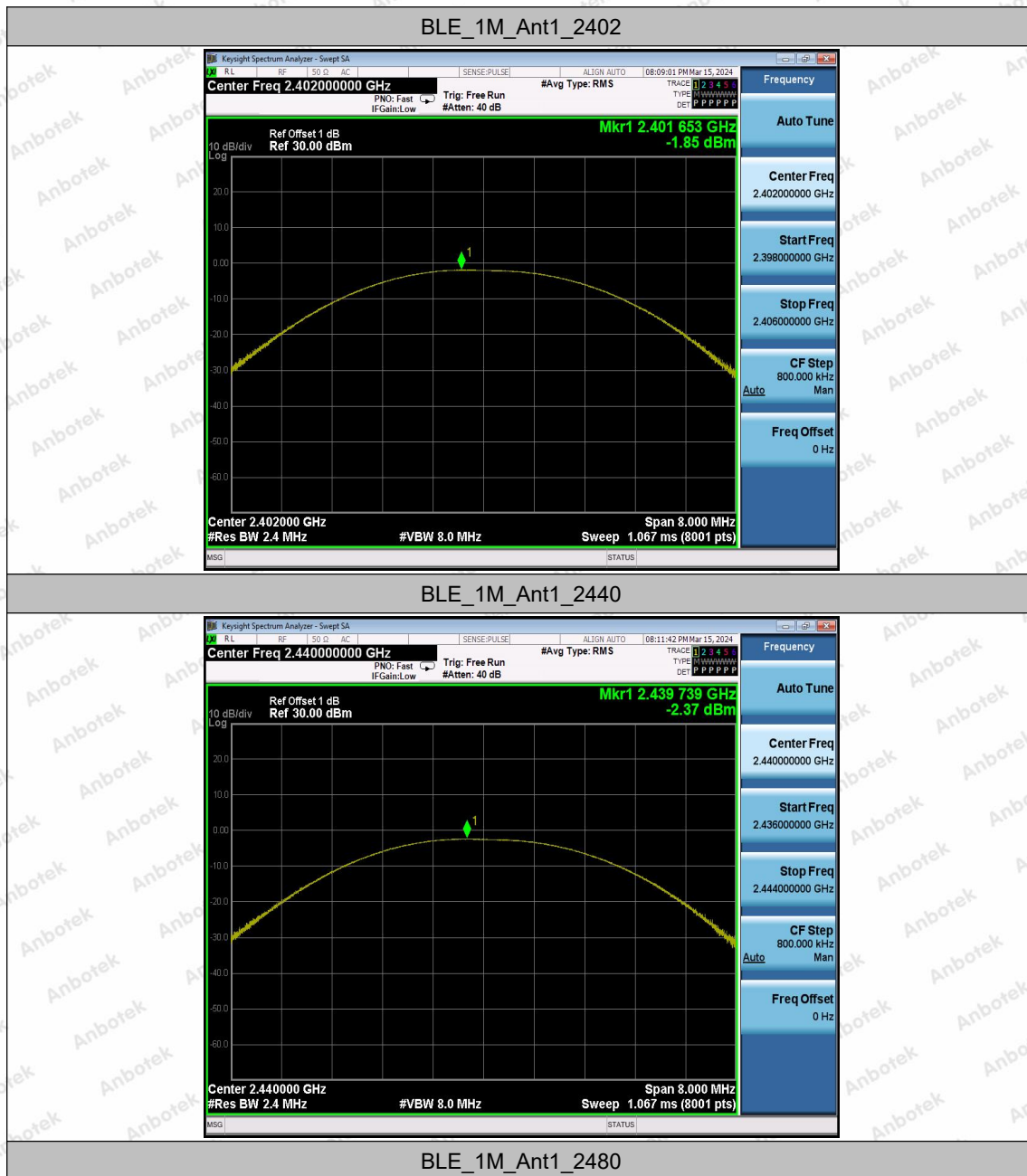
Appendix C: Maximum Conducted Output Power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.85	≤30	PASS
		2440	-2.37	≤30	PASS
		2480	-2.79	≤30	PASS



Test Graphs Peak



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Appendix D: Maximum Power Spectral Density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-5.4	-15.40	≤8.00	PASS
		2440	-5.99	-15.99	≤8.00	PASS
		2480	-6.39	-16.39	≤8.00	PASS

Note:

1. $\text{PSD}(\text{dBm}/3\text{kHz}) = \text{PSD}(\text{dBm}/30\text{kHz}) - (10 \cdot \log(30/3))$



Test Graphs



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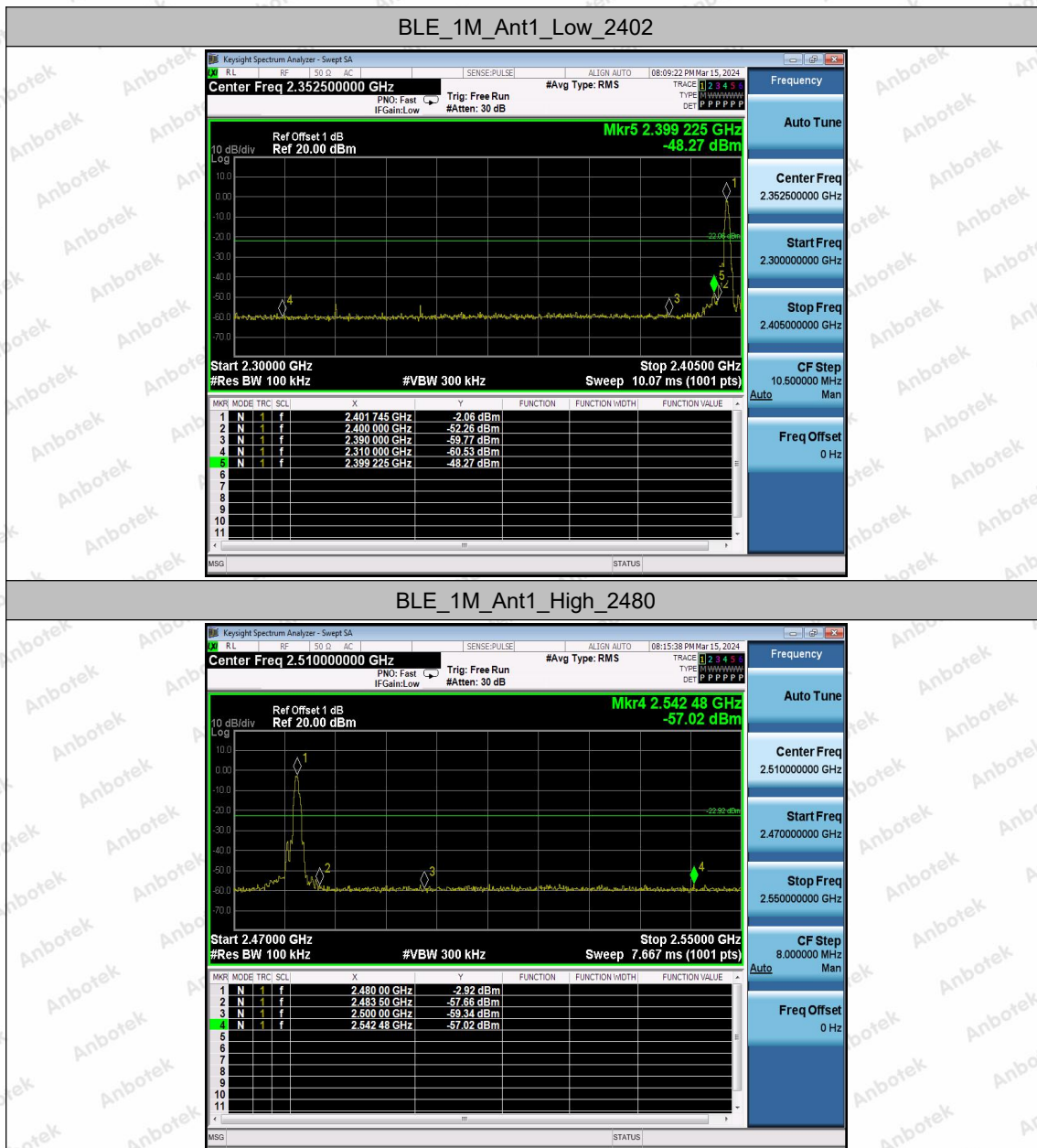
Appendix E: Conducted Band edge

Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.06	-48.27	≤-22.06	PASS
		High	2480	-2.92	-57.02	≤-22.92	PASS



Test Graphs



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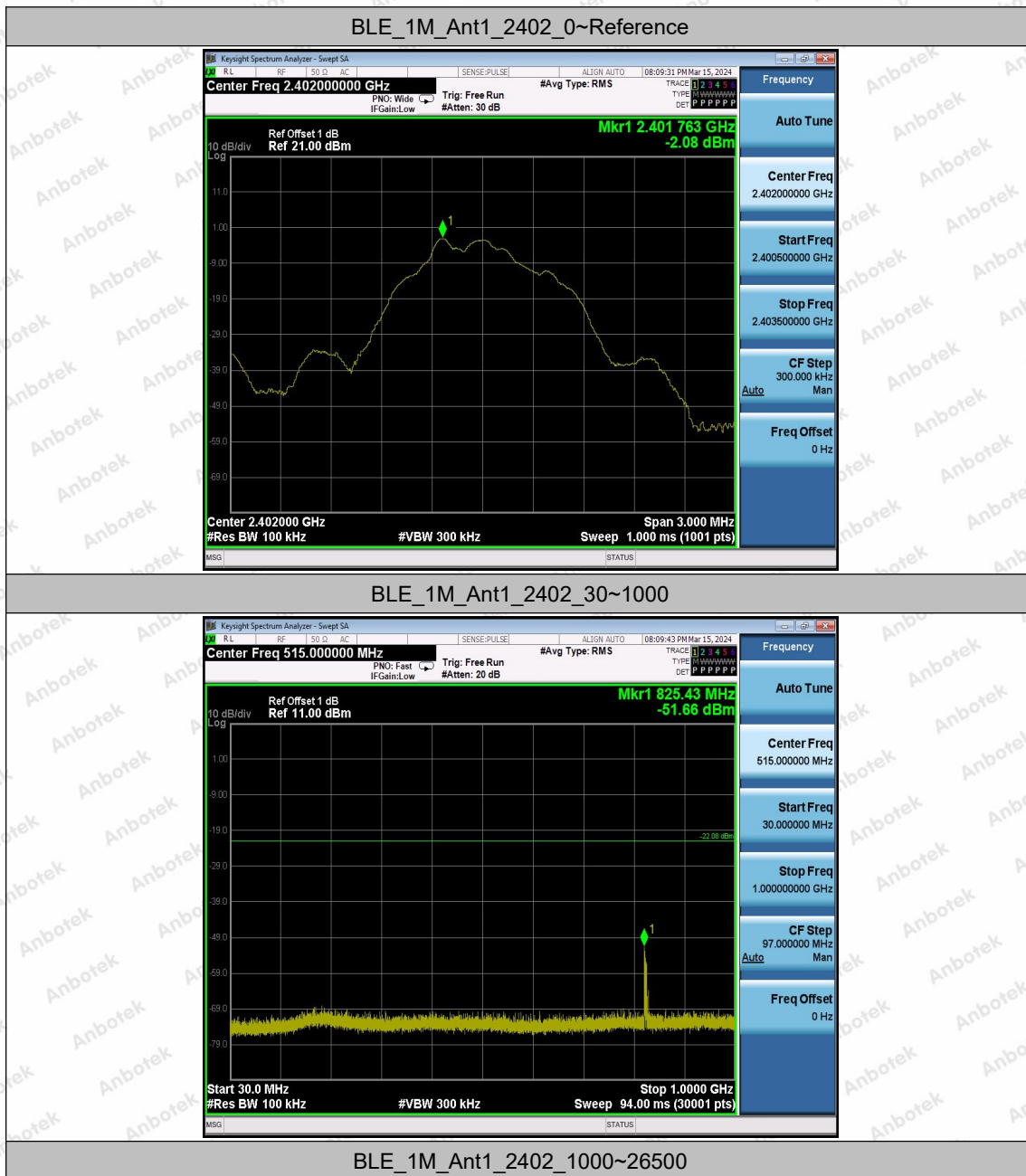
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.08	-2.08	---	PASS
			30~1000	-2.08	-51.66	≤-22.08	PASS
			1000~26500	-2.08	-41.06	≤-22.08	PASS
		2440	Reference	-2.61	-2.61	---	PASS
			30~1000	-2.61	-68.14	≤-22.61	PASS
			1000~26500	-2.61	-34.37	≤-22.61	PASS
		2480	Reference	-3.06	-3.06	---	PASS
			30~1000	-3.06	-68.4	≤-23.06	PASS
			1000~26500	-3.06	-30.91	≤-23.06	PASS



Test Graphs



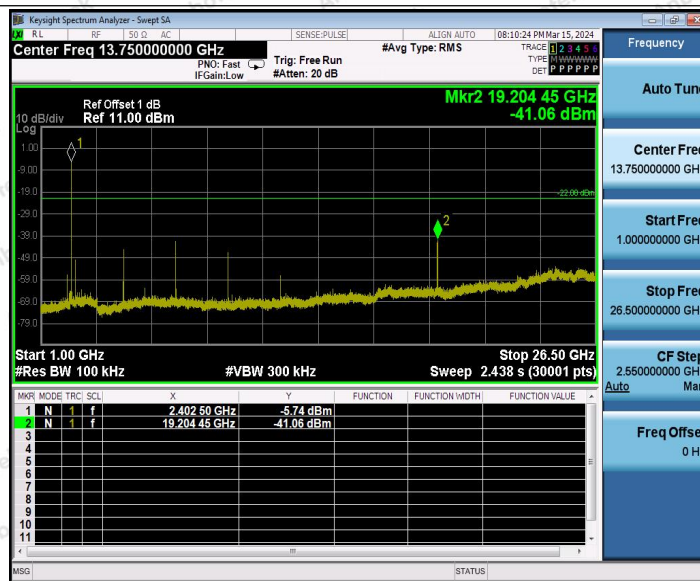
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

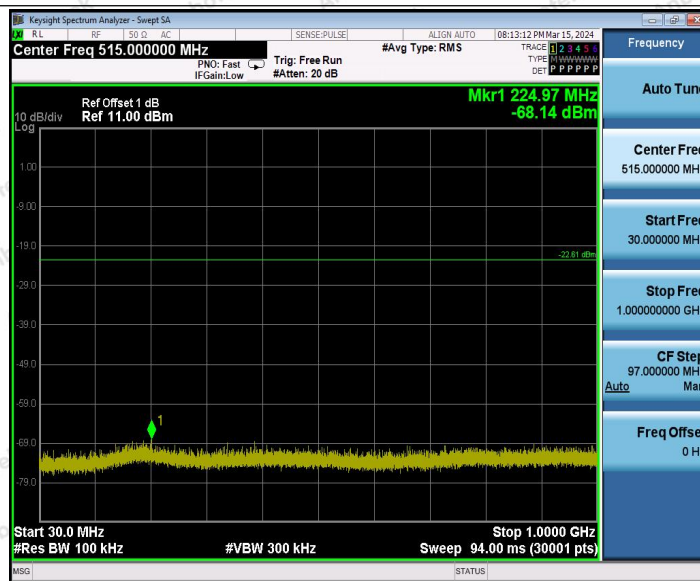
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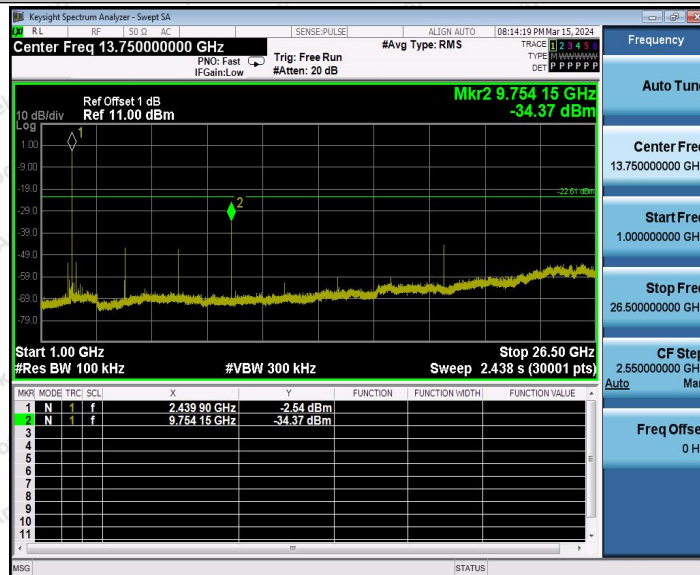


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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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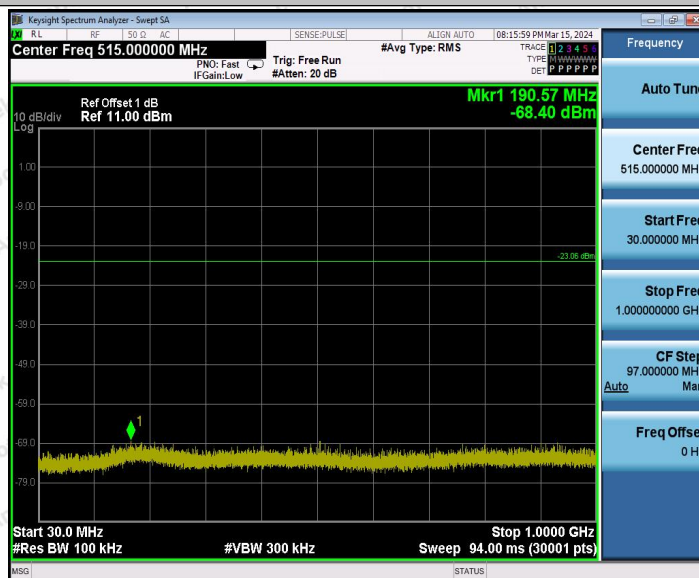


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BLE 1M Ant1 2480 30~1000



BLE	1M	Ant1	2480	1000~26500
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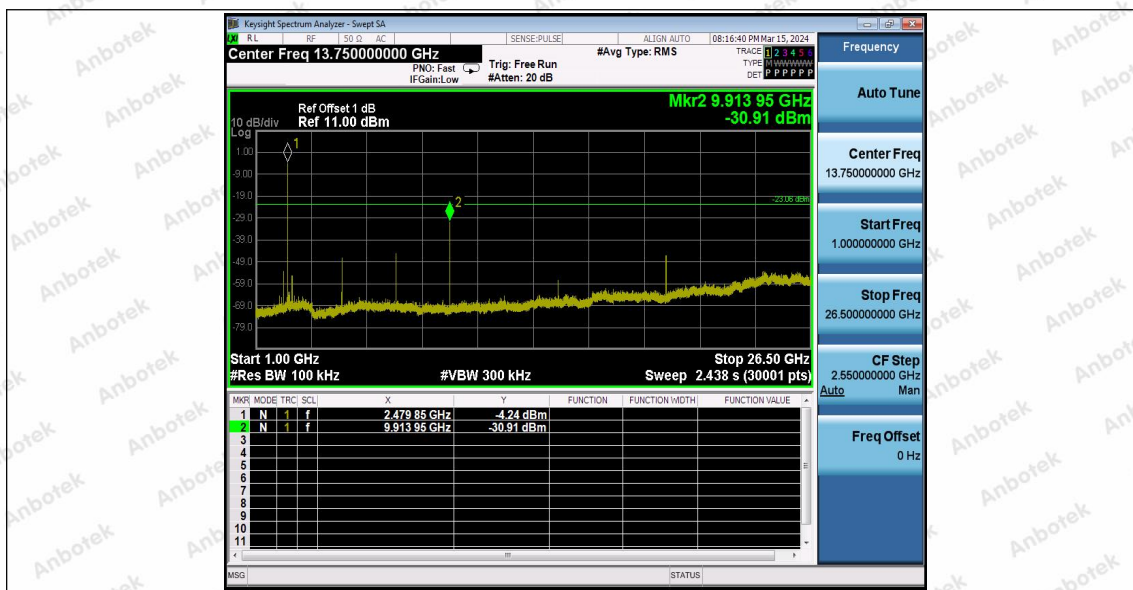
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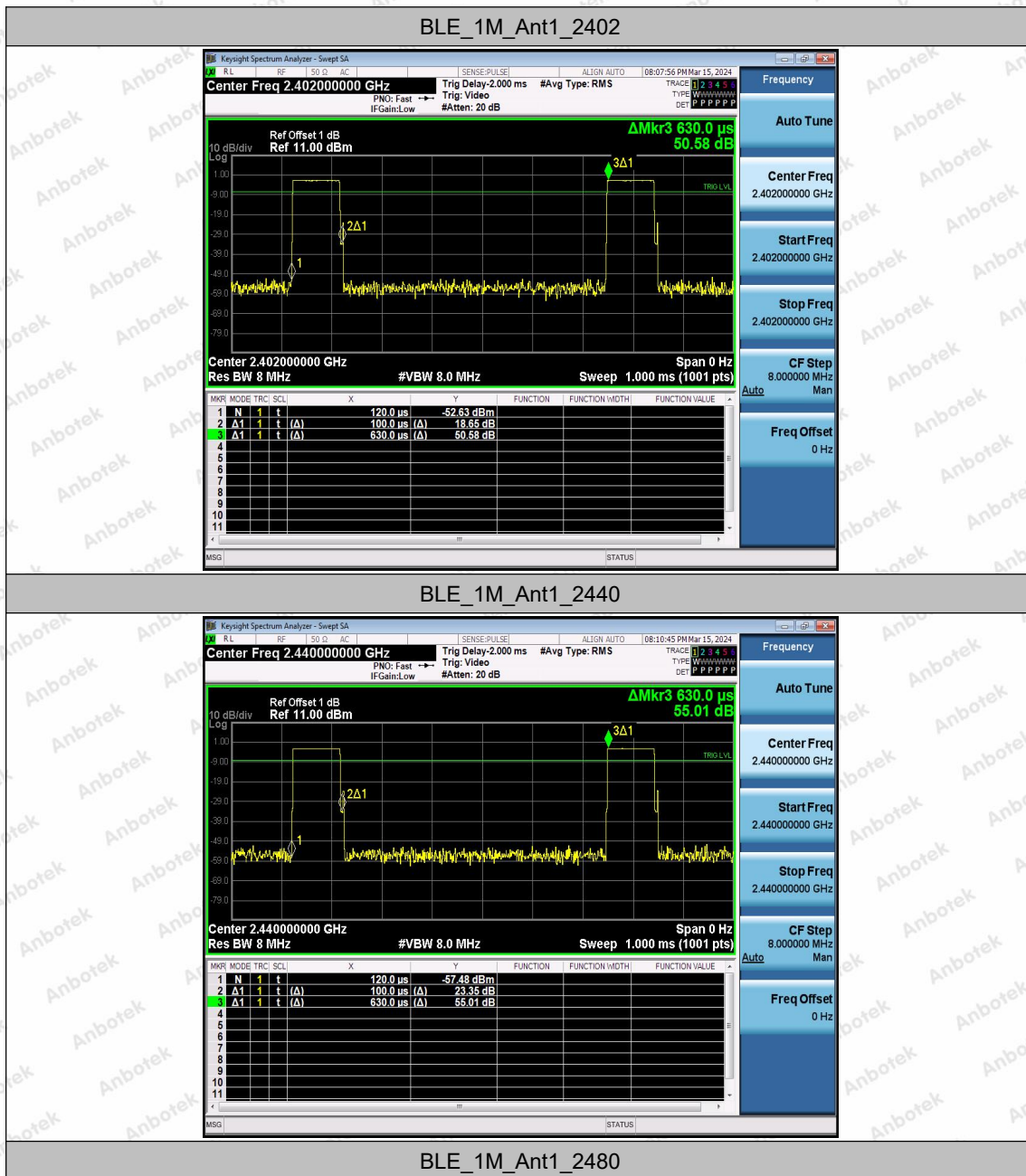
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.10	0.63	15.87	7.99
		2440	0.10	0.63	15.87	7.99
		2480	0.10	0.63	15.87	7.99



Test Graphs



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