

Appendix Test Data

Report No.:	18220WC30181402	Test Sample No.:	1-2-2
Start Test Date:	2023.08.25	Finish Test Date:	2023.08.26
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.2°C	Relative Humidity:	47%
Pressure:	102kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.508	2401.688	2402.196	0.5	PASS
		2440	0.504	2439.680	2440.184	0.5	PASS
		2480	0.504	2479.680	2480.184	0.5	PASS



Test Graphs



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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0371	2401.4986	2402.5357
		2440	1.0388	2439.4938	2440.5326
		2480	1.0346	2479.4996	2480.5342



Test Graphs



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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-8.95	≤30	PASS
		2440	-8.54	≤30	PASS
		2480	-8.55	≤30	PASS

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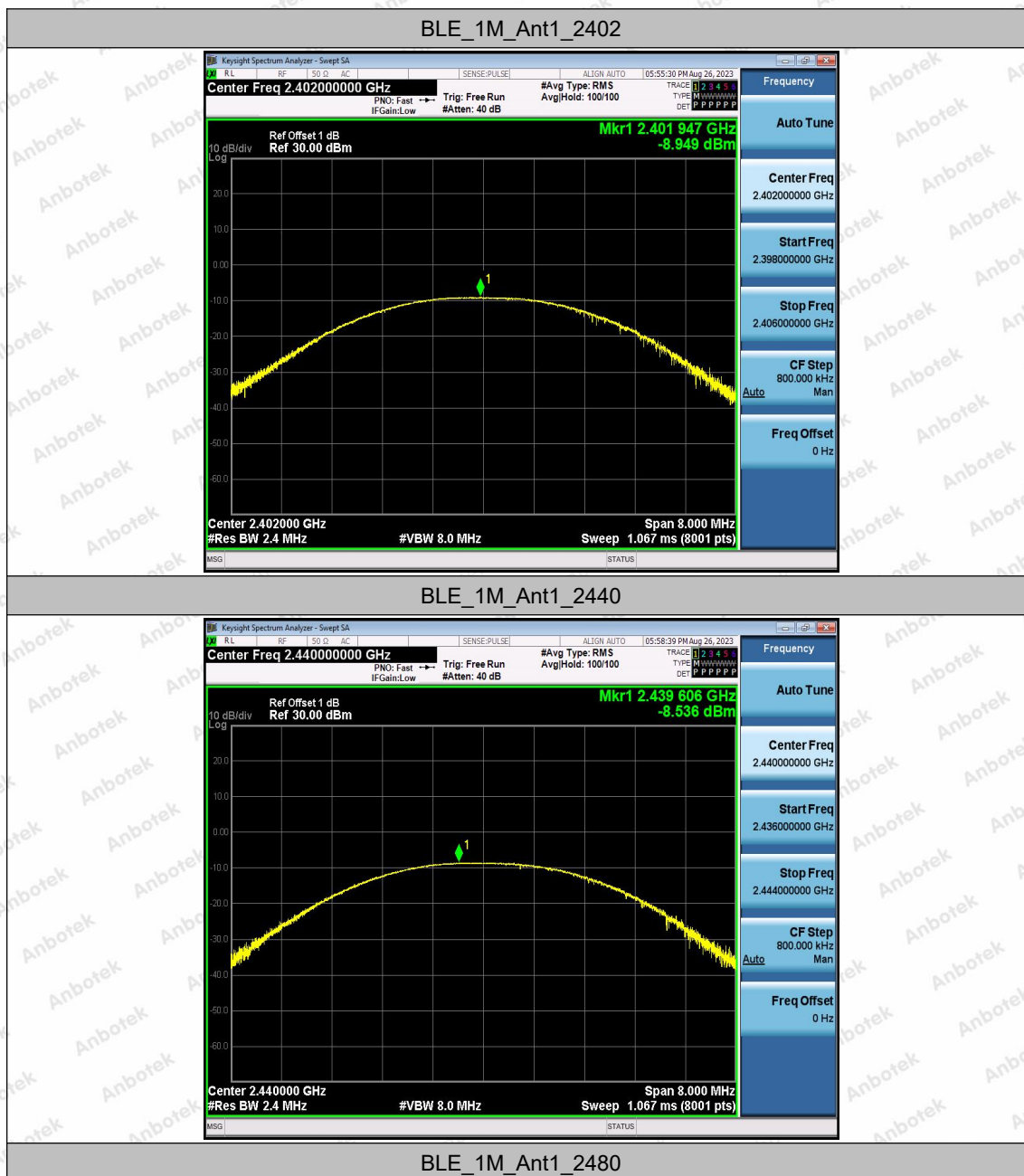
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Test Graphs Peak



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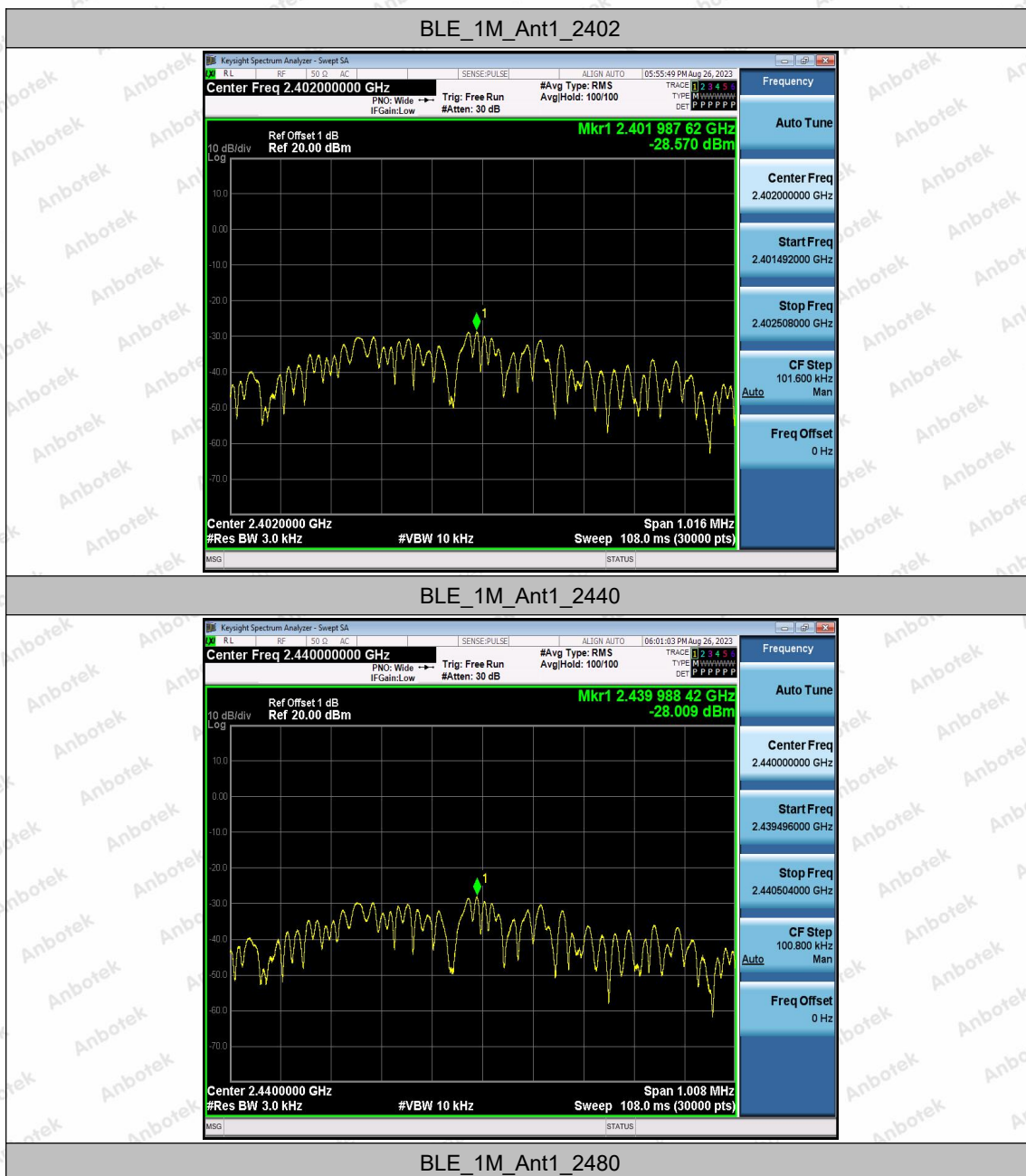
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-28.57	≤8.00	PASS
		2440	-28.01	≤8.00	PASS
		2480	-28.37	≤8.00	PASS



Test Graphs



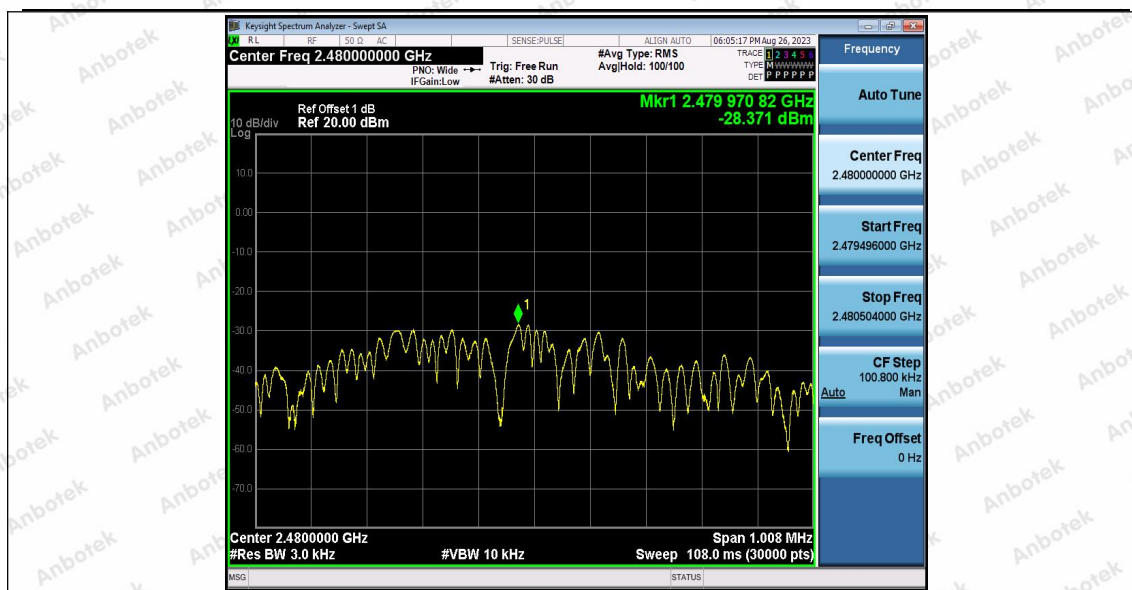
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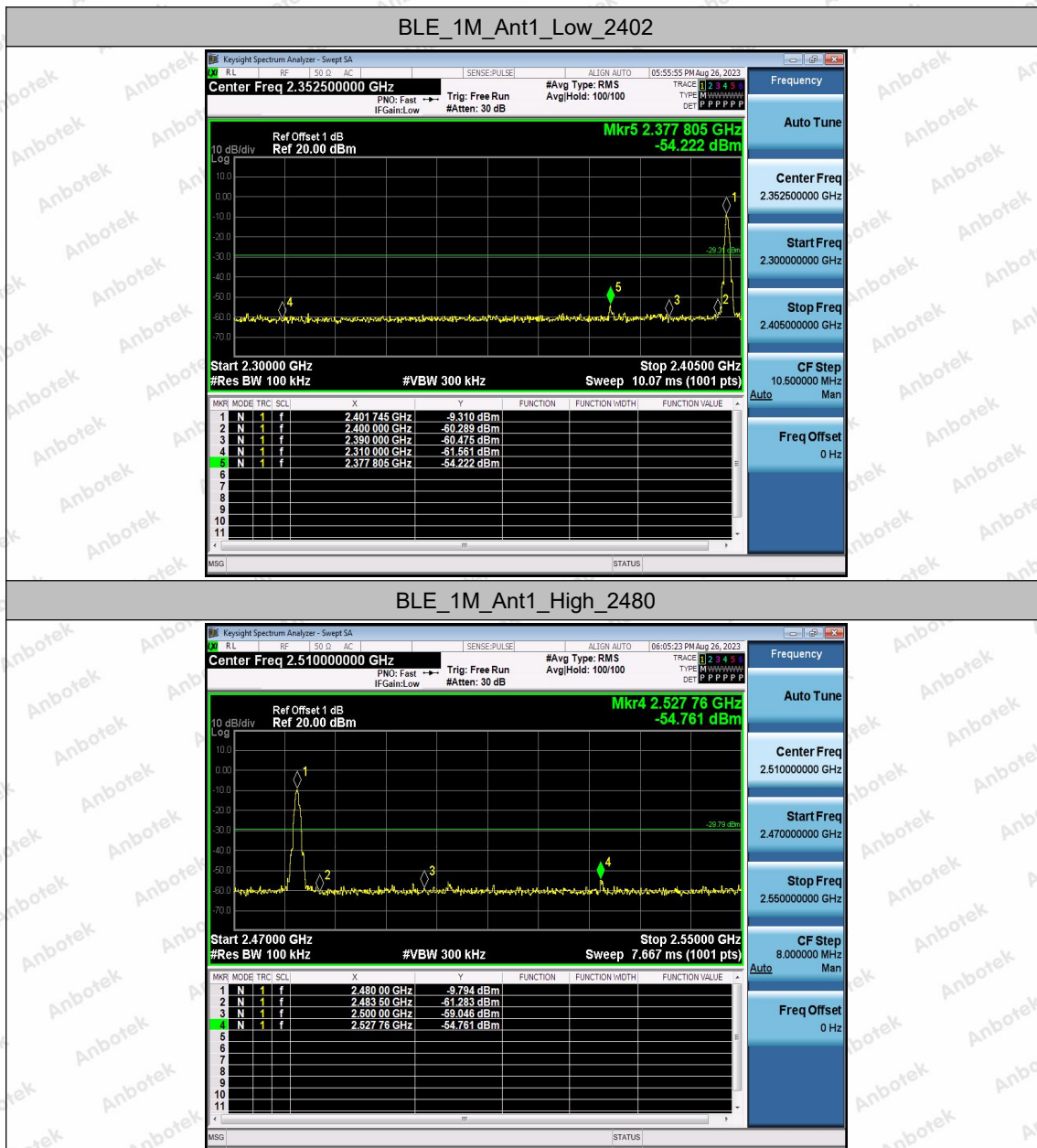
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-9.31	-54.22	≤-29.31	PASS
		High	2480	-9.79	-54.76	≤-29.79	PASS



Test Graphs



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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-9.36	-9.36	---	PASS
			30~1000	-9.36	-67.59	≤-29.36	PASS
			1000~26500	-9.36	-54	≤-29.36	PASS
		2440	Reference	-8.82	-8.82	---	PASS
			30~1000	-8.82	-68.88	≤-28.82	PASS
			1000~26500	-8.82	-53.45	≤-28.82	PASS
		2480	Reference	-8.86	-8.86	---	PASS
			30~1000	-8.86	-69.02	≤-28.86	PASS
			1000~26500	-8.86	-53.4	≤-28.86	PASS

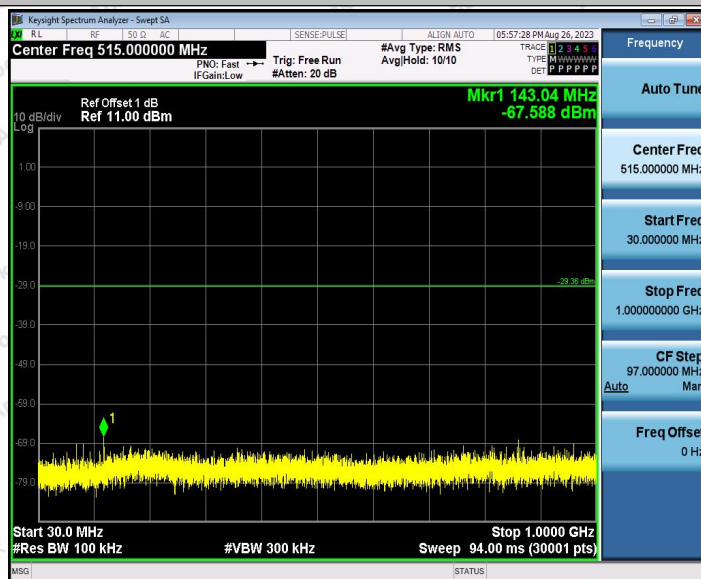


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

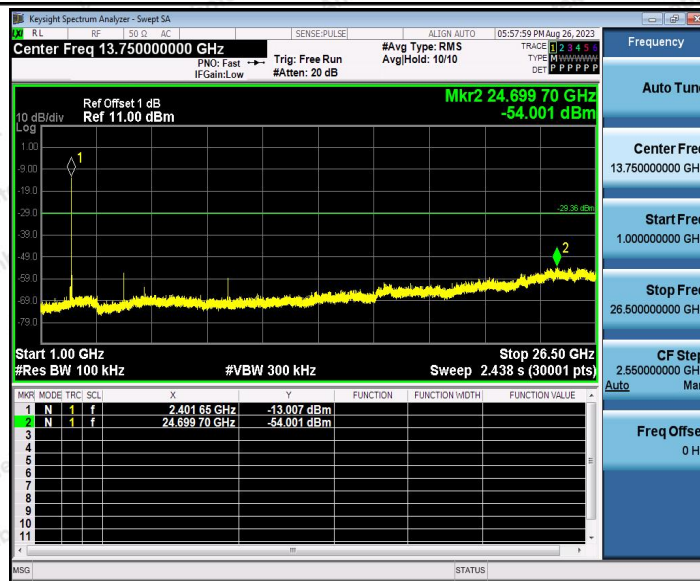
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

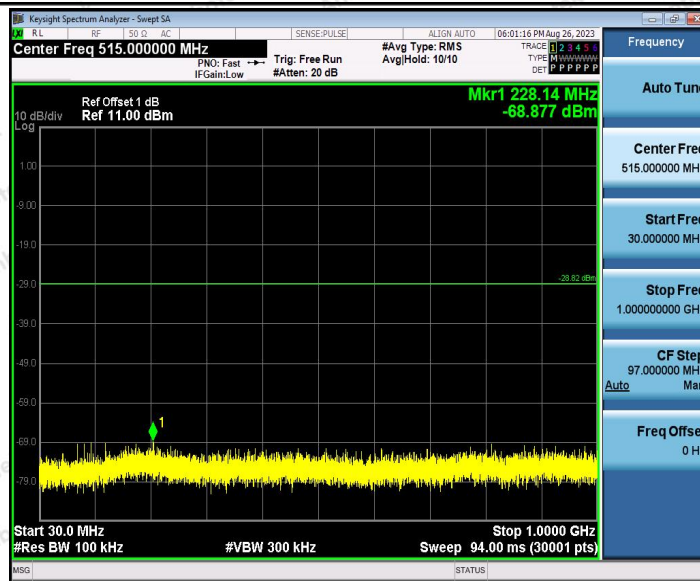
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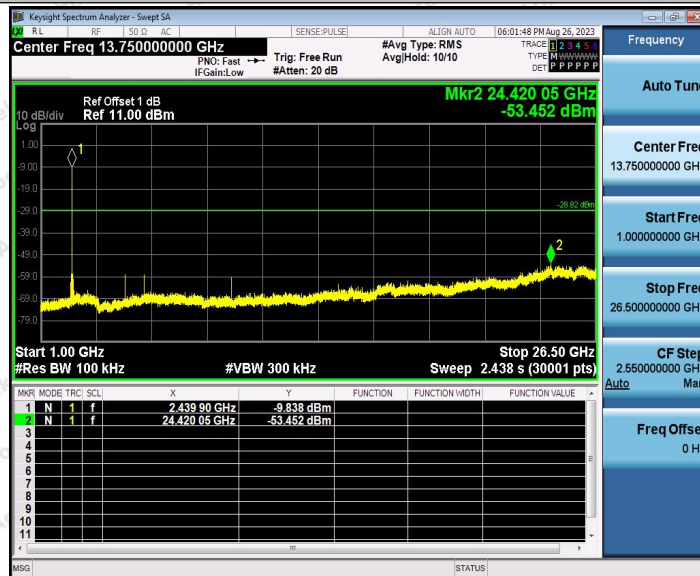


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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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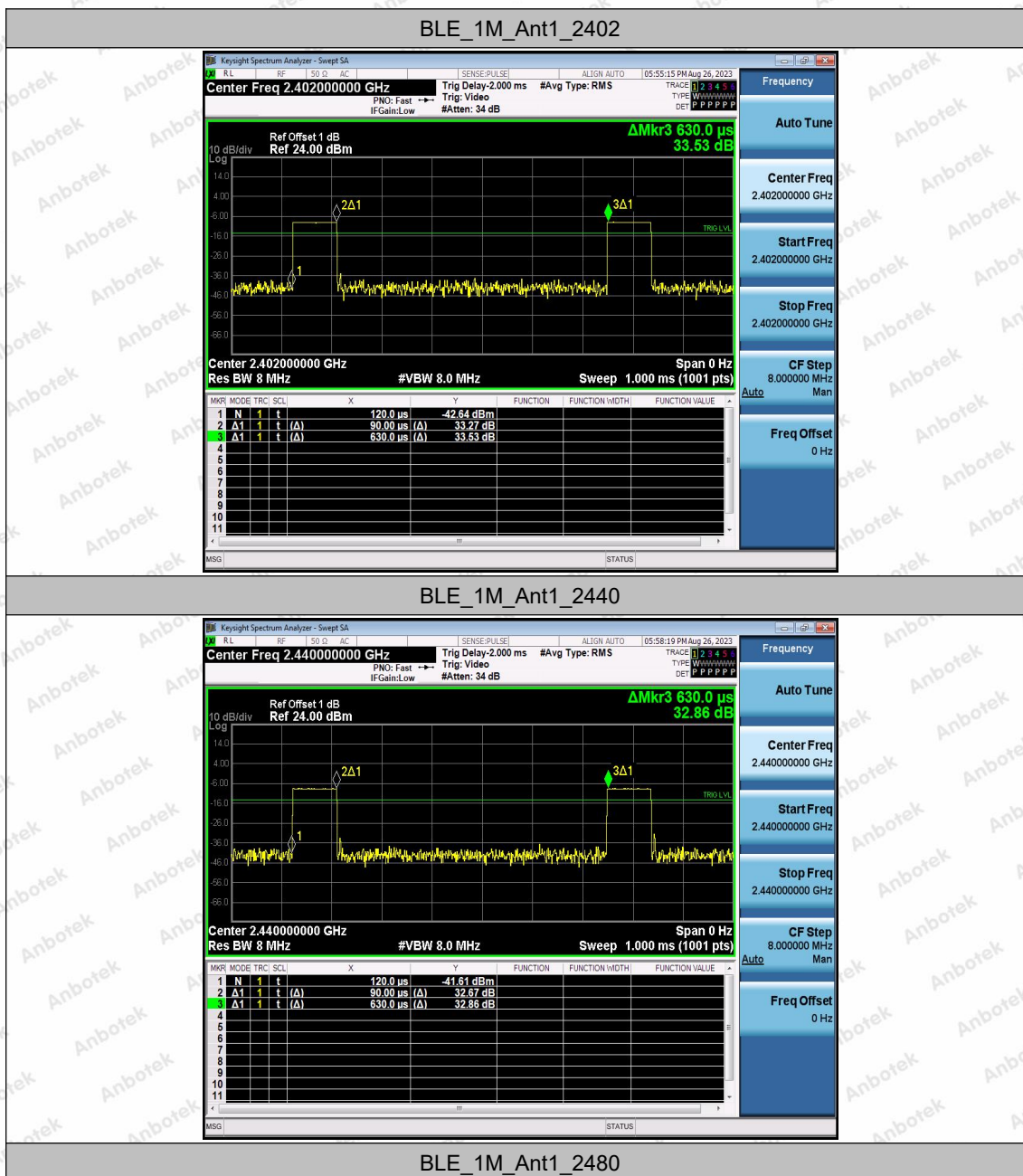
Appendix G: Duty Cycle

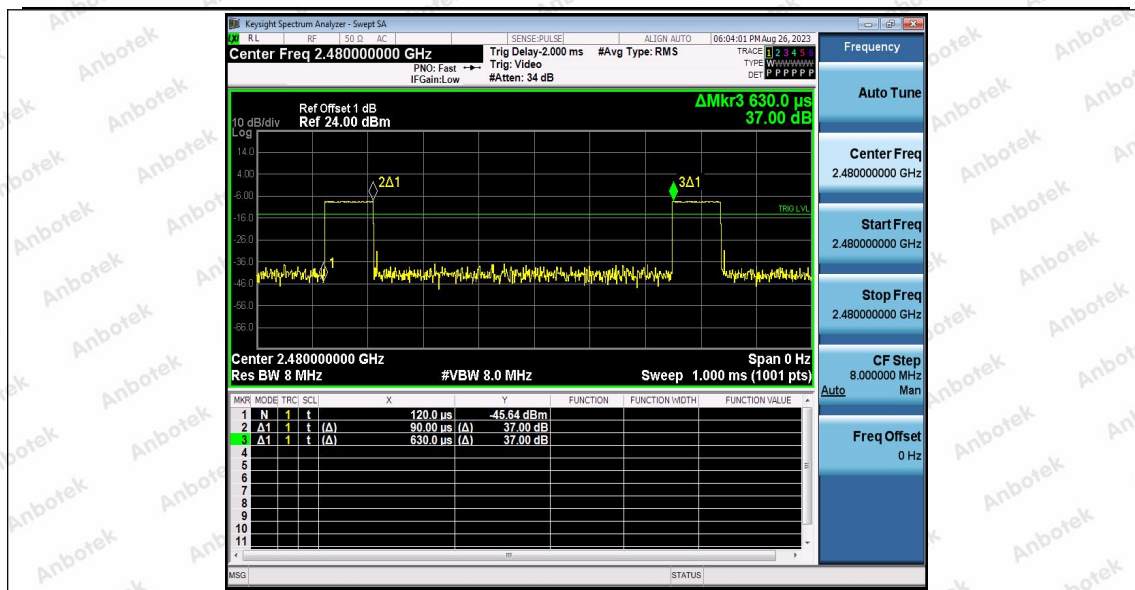
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.09	0.63	14.29	8.45
		2440	0.09	0.63	14.29	8.45
		2480	0.09	0.63	14.29	8.45



Test Graphs





---End---

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