

Appendix Test Data

Report No.:	18220WC30176502	Test Sample No.:	1-2-2
Start Test Date:	2023.08.21	Finish Test Date:	2023.08.24
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	24.4°C	Relative Humidity:	49%
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.656	2401.624	2402.280	0.5	PASS
		2440	0.640	2439.632	2440.272	0.5	PASS
		2480	0.640	2479.632	2480.272	0.5	PASS
BLE_2M	Ant1	2402	1.124	2401.404	2402.528	0.5	PASS
		2440	1.152	2439.388	2440.540	0.5	PASS
		2480	1.096	2479.412	2480.508	0.5	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

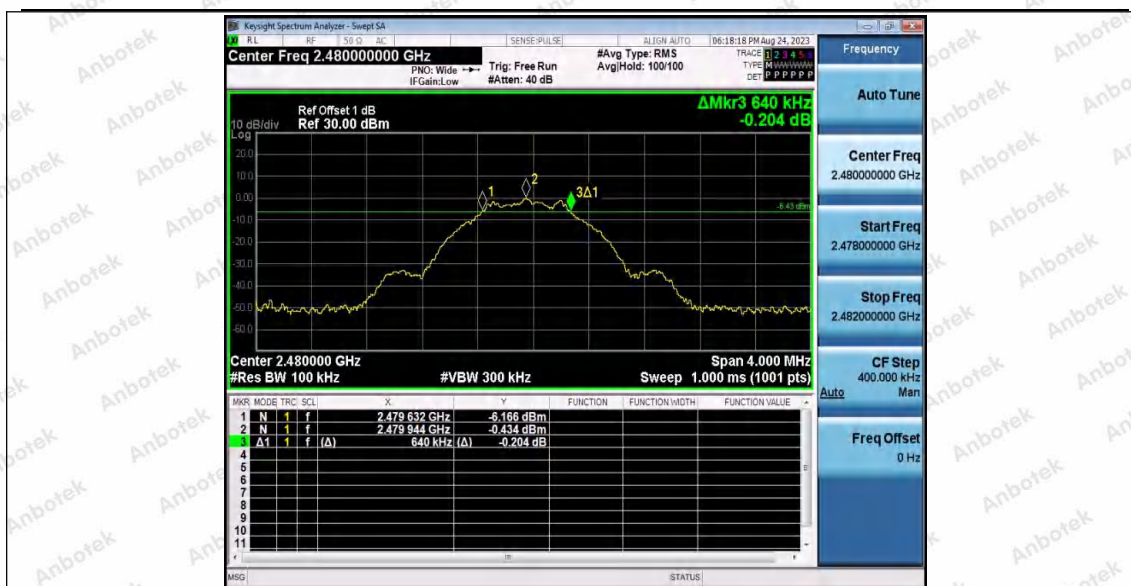
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





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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	1.0295	2401.4461	2402.4756
		2440	1.0280	2439.4404	2440.4684
		2480	1.0333	2479.4355	2480.4688
BLE_2M	Ant1	2402	2.0555	2400.9447	2403.0002
		2440	2.0472	2438.9474	2440.9946
		2480	2.0334	2478.9479	2480.9813

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Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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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	-0.59	≤30	PASS
		2440	0.33	≤30	PASS
		2480	0.08	≤30	PASS
BLE_2M	Ant1	2402	-0.47	≤30	PASS
		2440	0.37	≤30	PASS
		2480	0.35	≤30	PASS



Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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BLE 2M Ant1 2402



BLE 2M Ant1 2440

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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	-15.97	≤8.00	PASS
		2440	-15.19	≤8.00	PASS
		2480	-15.37	≤8.00	PASS
BLE_2M	Ant1	2402	-17.6	≤8.00	PASS
		2440	-16.68	≤8.00	PASS
		2480	-16.68	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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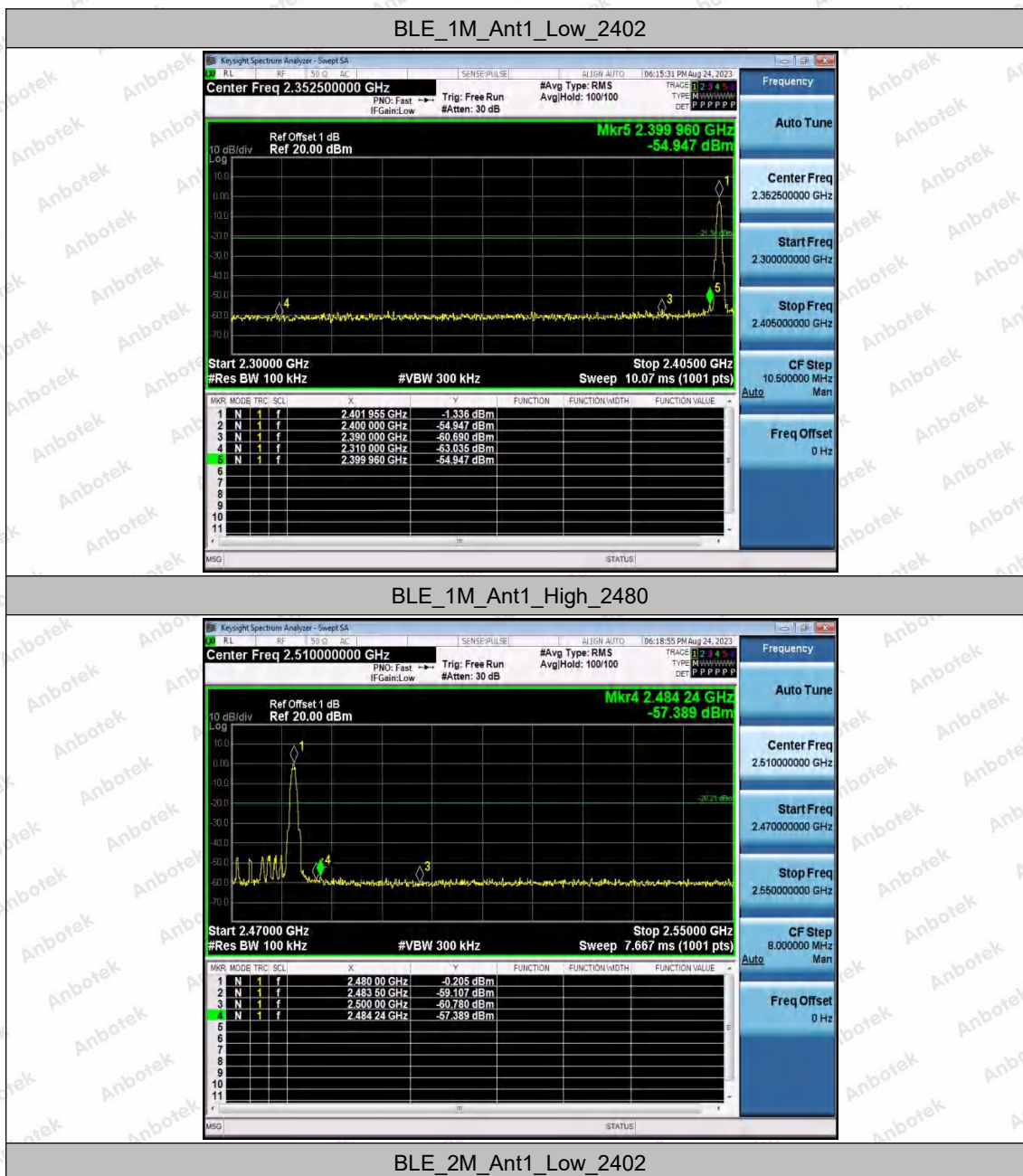
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.34	-54.95	≤-21.34	PASS
		High	2480	-0.21	-57.39	≤-20.21	PASS
BLE_2M	Ant1	Low	2402	-1.72	-50.59	≤-21.72	PASS
		High	2480	-0.75	-56.12	≤-20.75	PASS



Test Graphs



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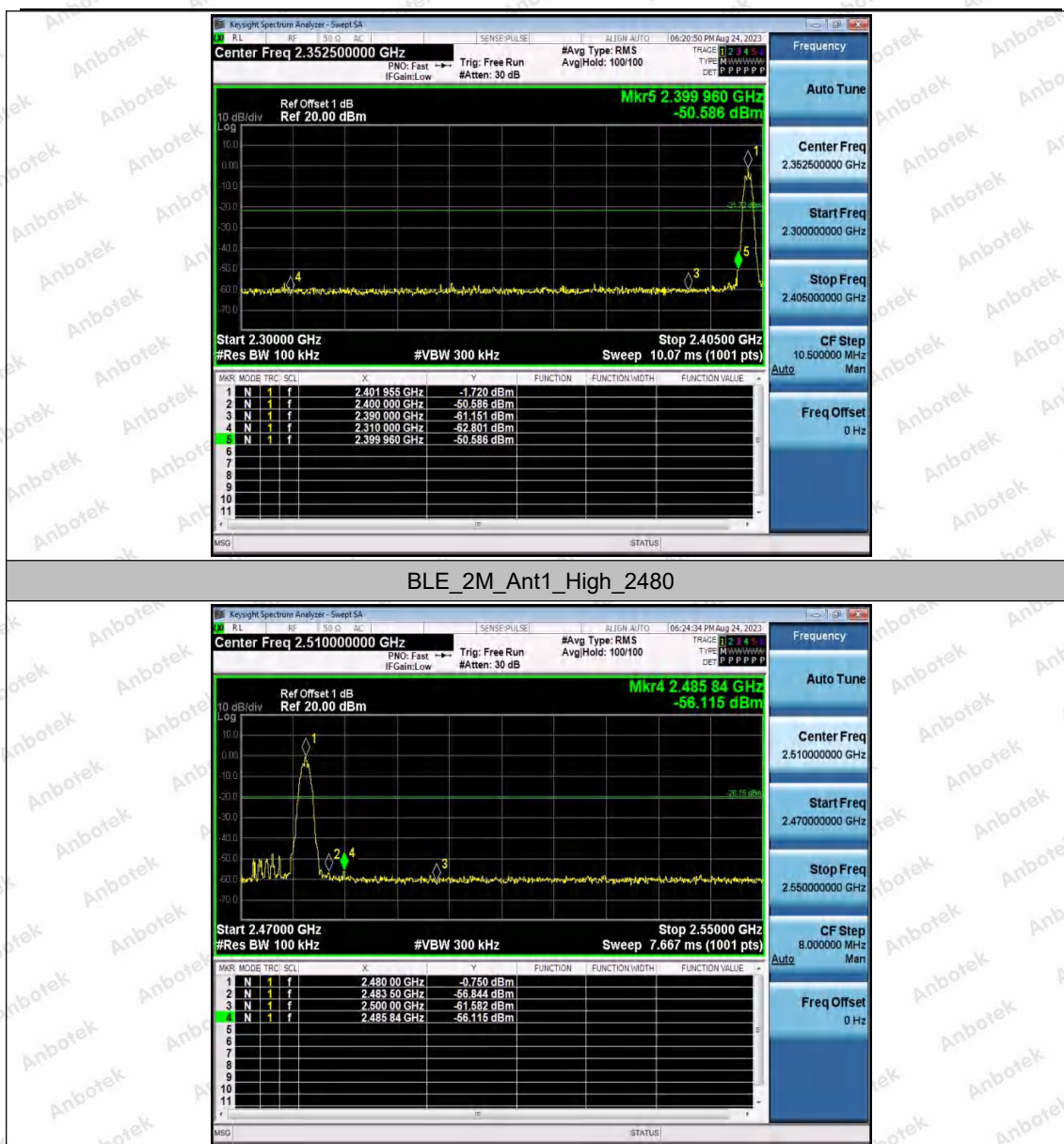


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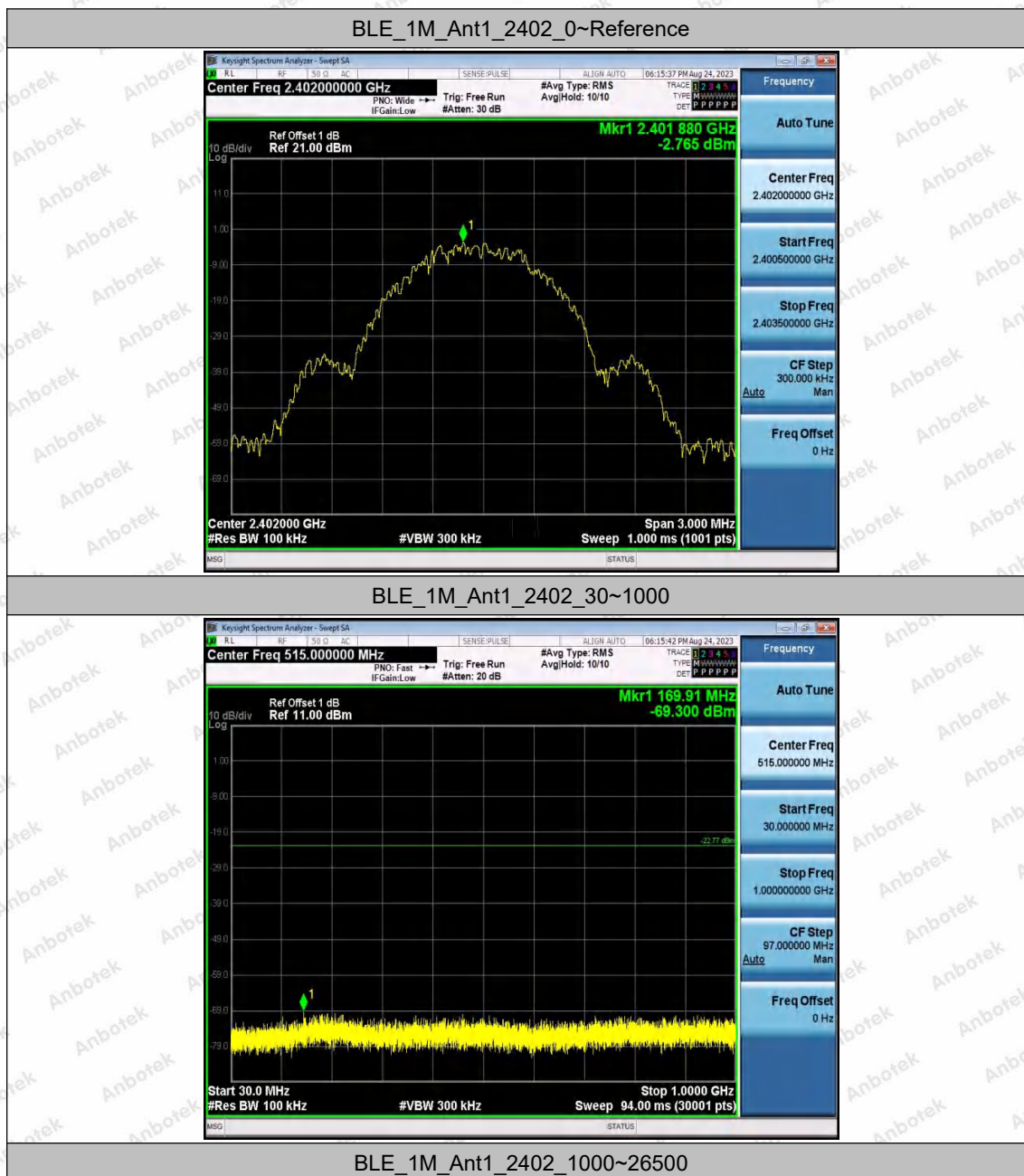
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.77	-2.77	---	PASS
			30~1000	-2.77	-69.3	≤-22.77	PASS
			1000~26500	-2.77	-53.24	≤-22.77	PASS
		2440	Reference	-1.00	-1.00	---	PASS
			30~1000	-1.00	-68.6	≤-21	PASS
			1000~26500	-1.00	-53.33	≤-21	PASS
		2480	Reference	-0.34	-0.34	---	PASS
			30~1000	-0.34	-68.56	≤-20.34	PASS
			1000~26500	-0.34	-53.56	≤-20.34	PASS
BLE_2M	Ant1	2402	Reference	-5.02	-5.02	---	PASS
			30~1000	-5.02	-69.2	≤-25.02	PASS
			1000~26500	-5.02	-53.28	≤-25.02	PASS
		2440	Reference	-4.54	-4.54	---	PASS
			30~1000	-4.54	-69.8	≤-24.54	PASS
			1000~26500	-4.54	-53.58	≤-24.54	PASS
		2480	Reference	-3.56	-3.56	---	PASS
			30~1000	-3.56	-68.94	≤-23.56	PASS
			1000~26500	-3.56	-53.19	≤-23.56	PASS



Test Graphs



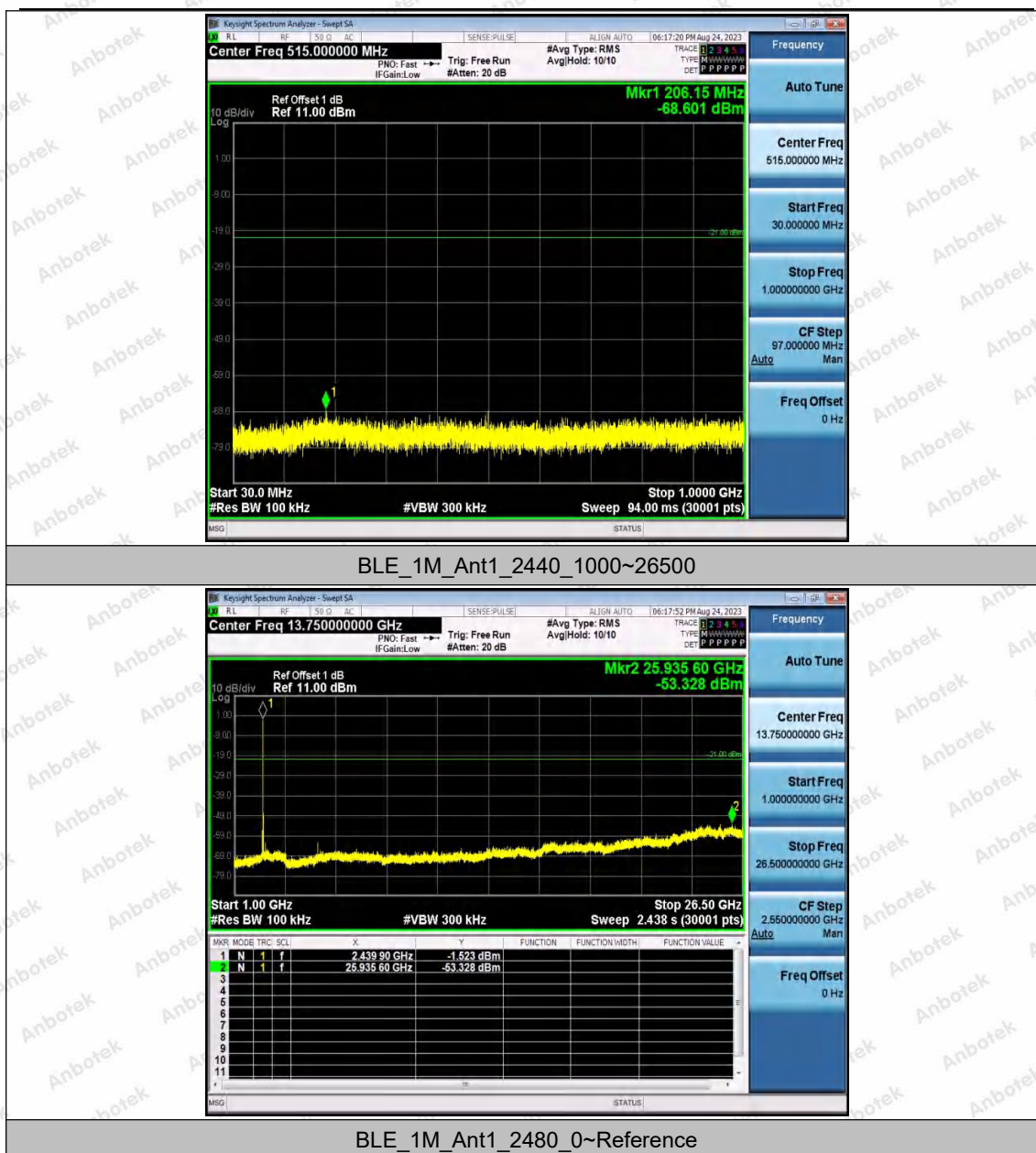


BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000





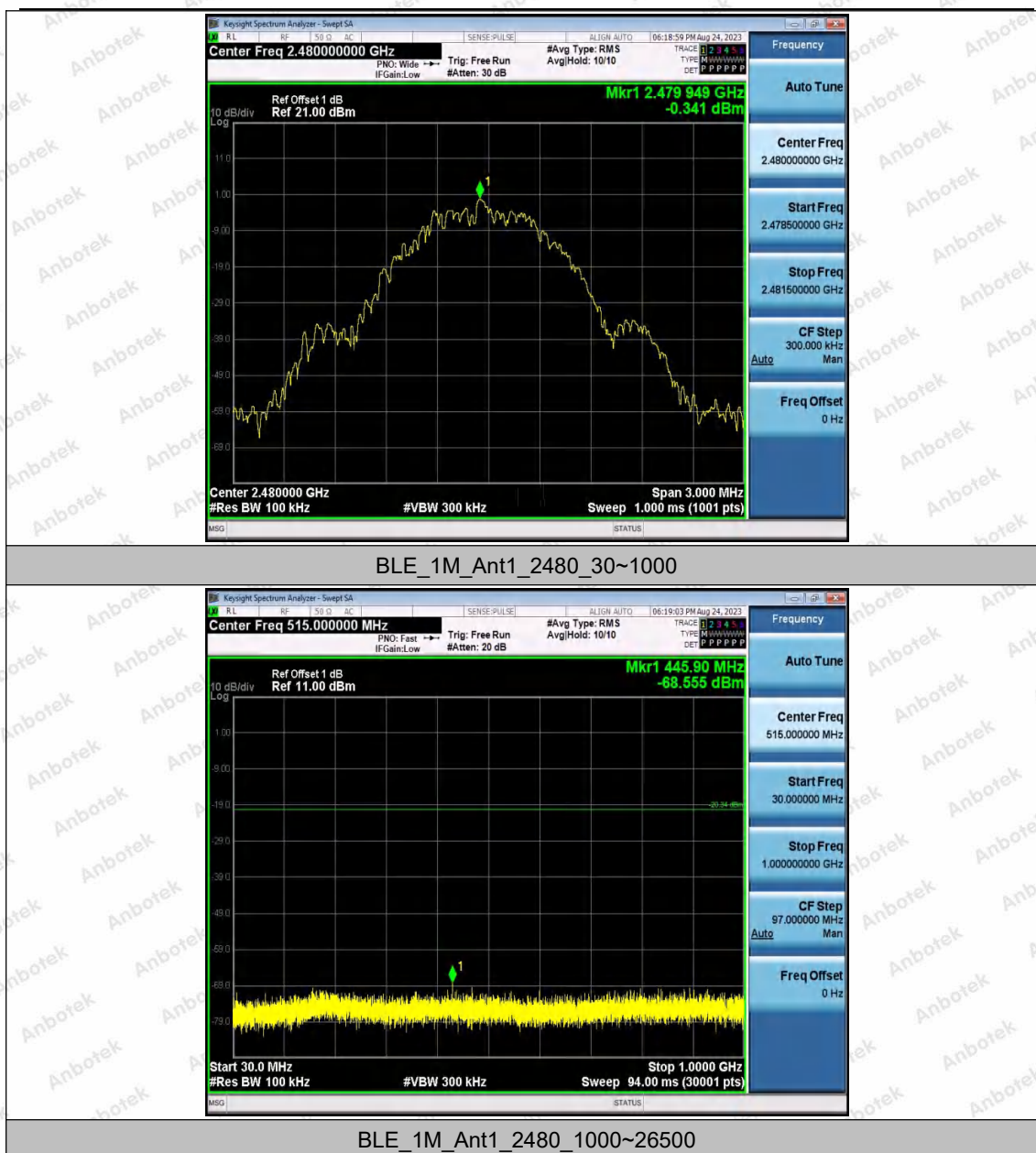
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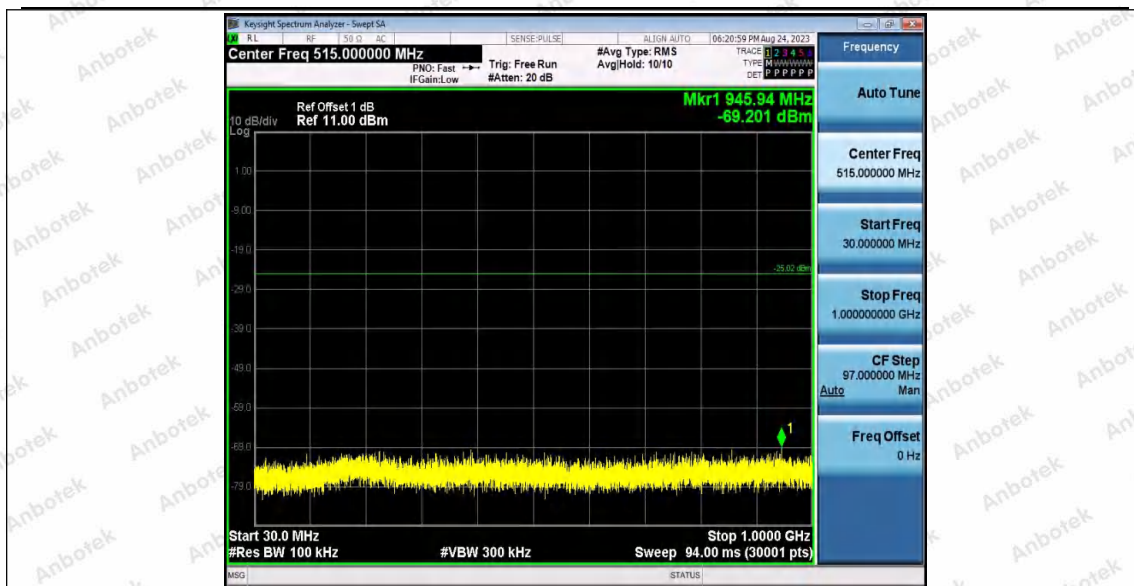


BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000





BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

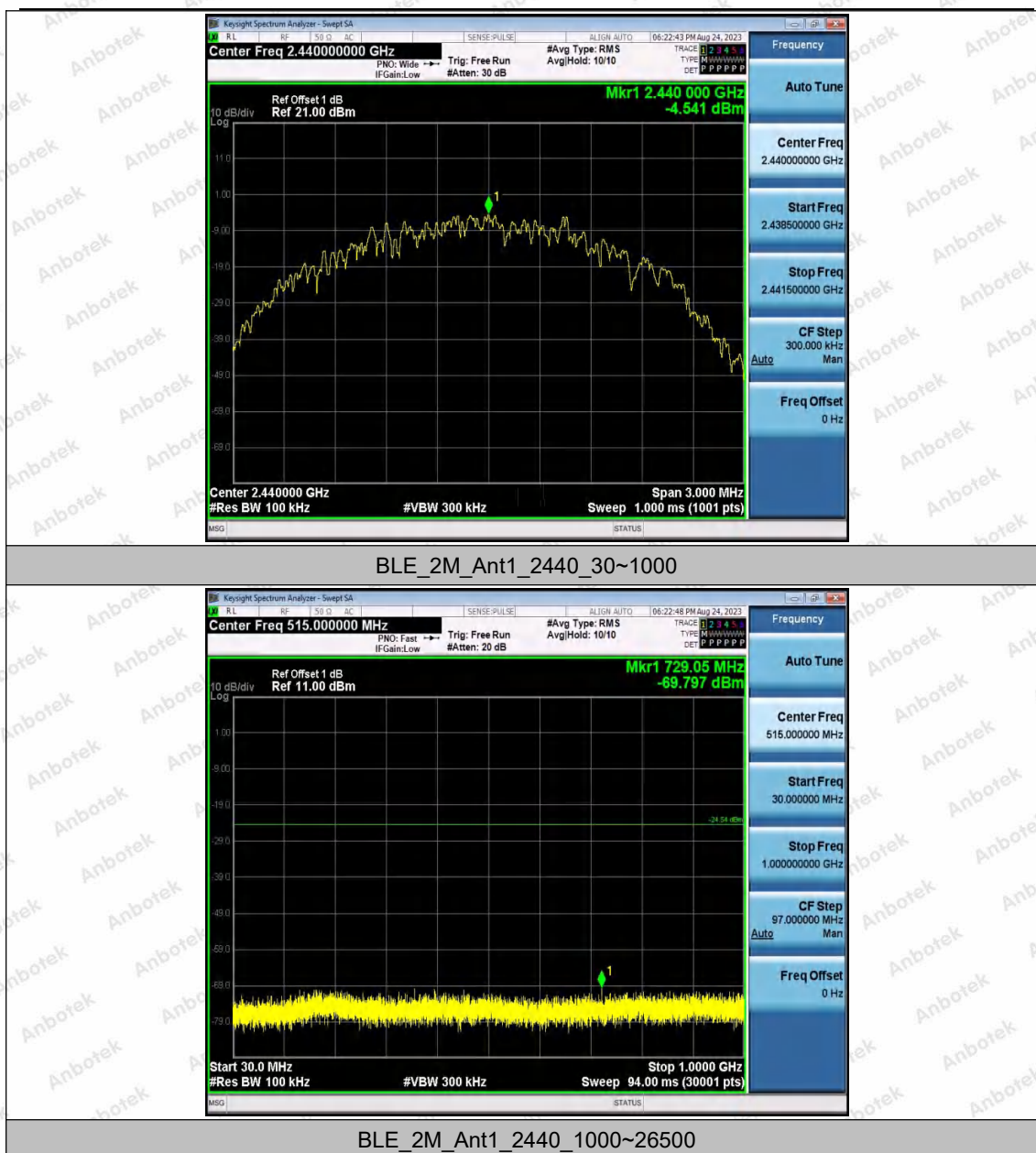
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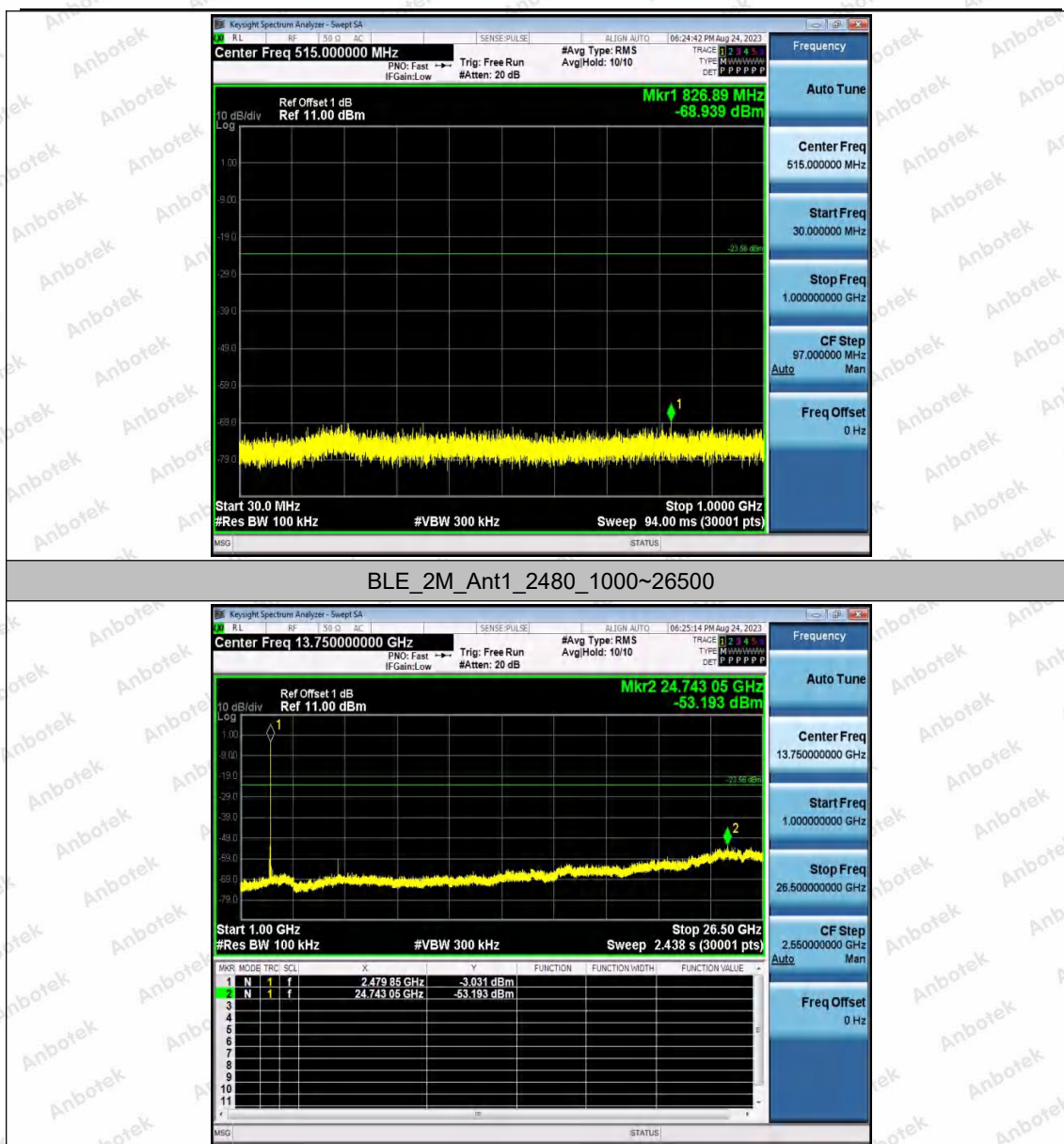


BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000





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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	2.10	2.50	84.00	0.76
		2440	2.10	2.50	84.00	0.76
		2480	2.10	2.50	84.00	0.76
BLE_2M	Ant1	2402	1.06	1.88	56.38	2.49
		2440	1.06	1.88	56.38	2.49
		2480	1.06	1.88	56.38	2.49



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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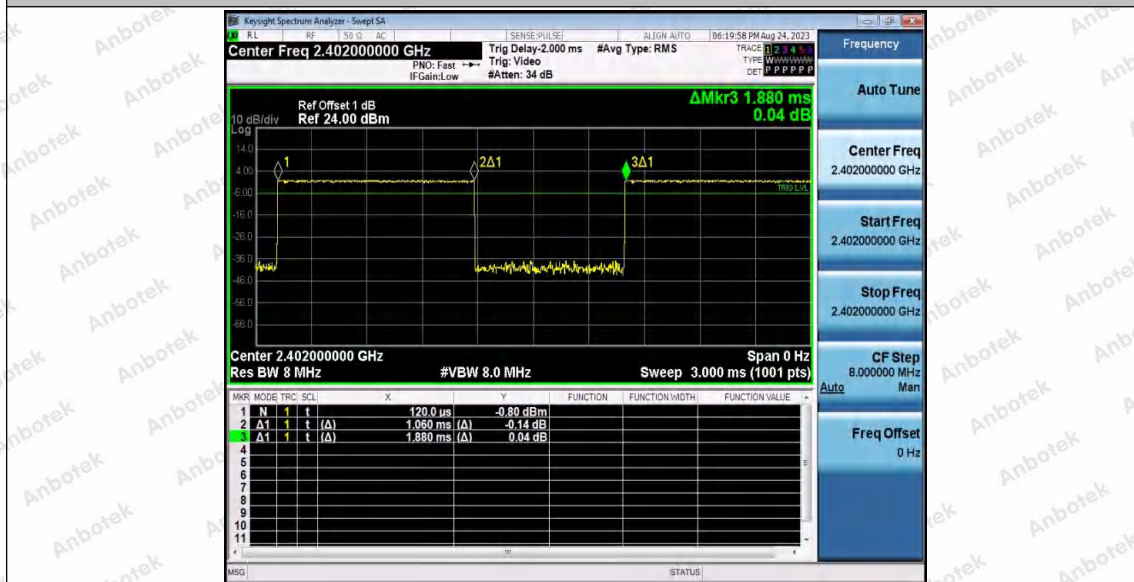


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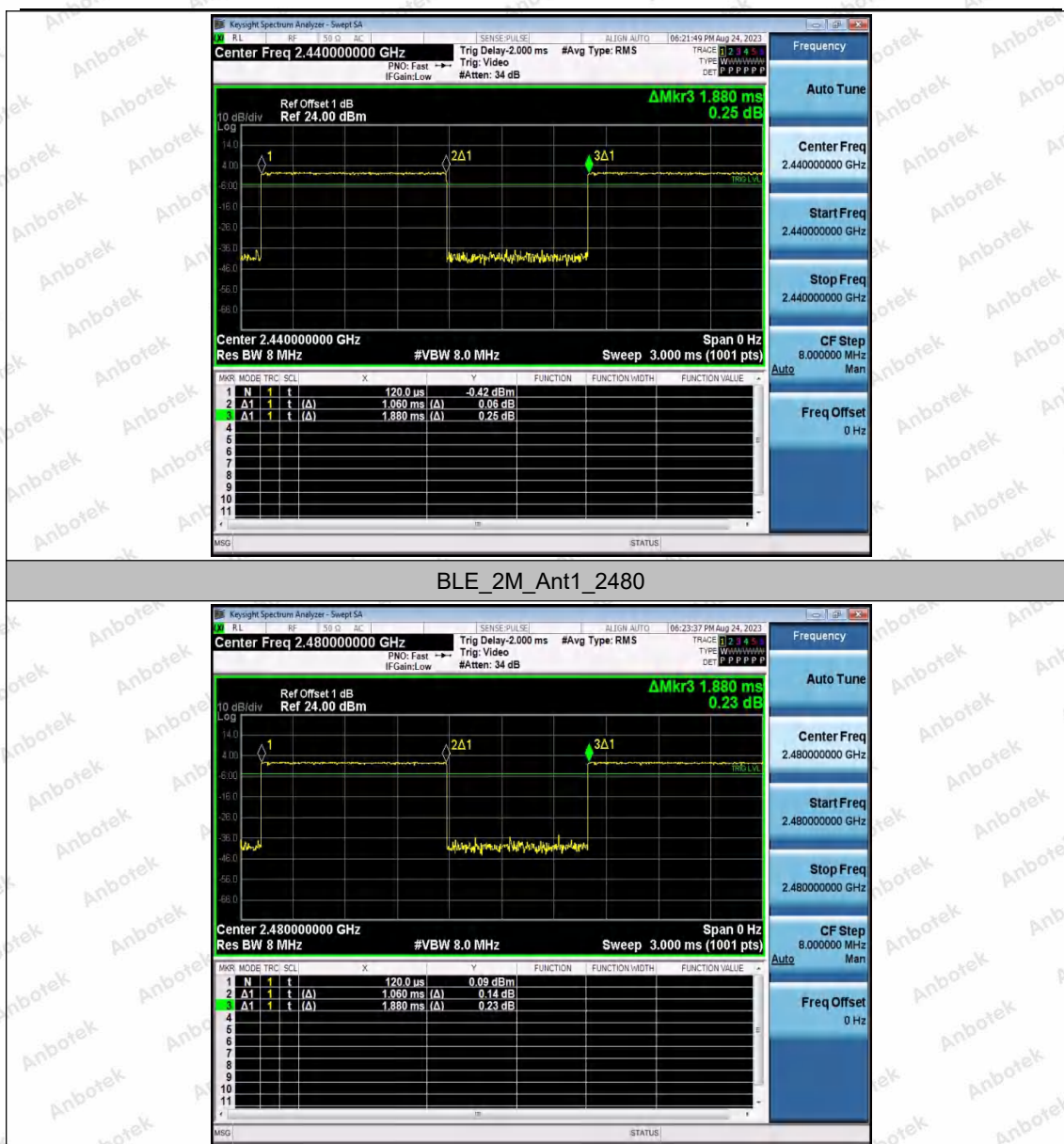


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





BLE_2M_Ant1_2480

---End---

