

Appendix Test Data

Report No.:	18220WC30257401	Test Sample No.:	1-2-2
Start Test Date:	2023.12.06	Finish Test Date:	2023.12.07
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.4°C	Relative Humidity:	48%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.680	2401.660	2402.340	0.5	PASS
		2440	0.700	2439.644	2440.344	0.5	PASS
		2480	0.724	2479.636	2480.360	0.5	PASS
BLE_2M	Ant1	2402	1.232	2401.380	2402.612	0.5	PASS
		2440	1.252	2439.340	2440.592	0.5	PASS
		2480	1.232	2479.392	2480.624	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	1.0244	2401.4860	2402.5104
		2440	1.0329	2439.4864	2440.5193
		2480	1.0276	2479.4825	2480.5101
BLE_2M	Ant1	2402	2.0205	2400.9972	2403.0177
		2440	2.0190	2438.9810	2441.0000
		2480	2.0244	2478.9987	2481.0231



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 C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.46	≤30	PASS
		2440	-2.08	≤30	PASS
		2480	-2.31	≤30	PASS
BLE_2M	Ant1	2402	-1.44	≤30	PASS
		2440	-2.06	≤30	PASS
		2480	-2.31	≤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

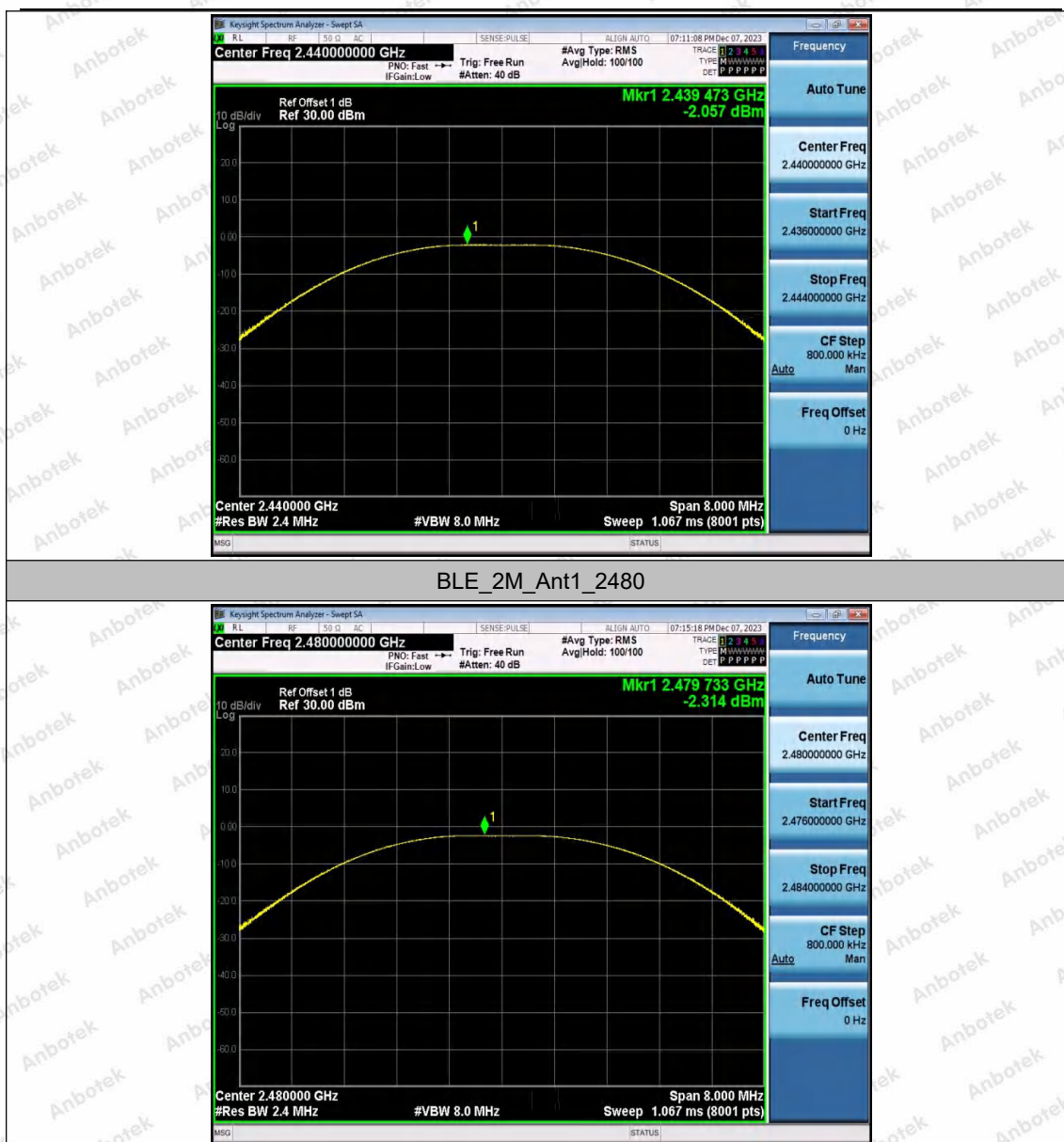
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Appendix D: Maximum power spectral density

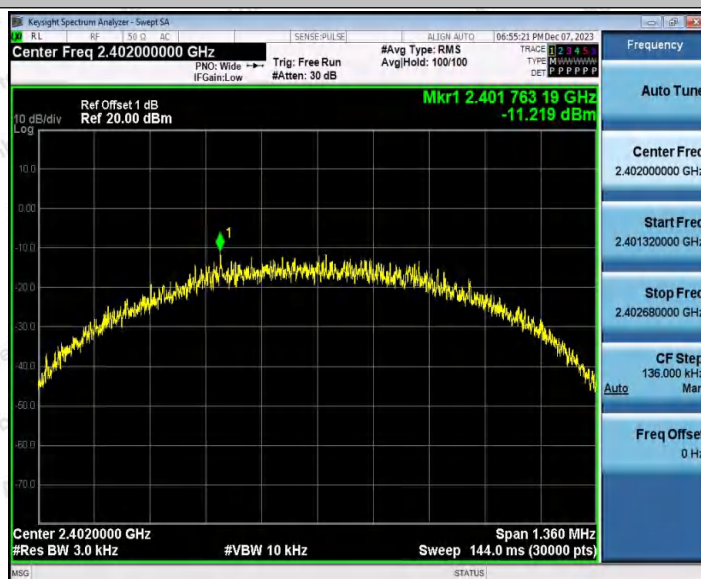
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.22	≤8.00	PASS
		2440	-11.73	≤8.00	PASS
		2480	-11.95	≤8.00	PASS
BLE_2M	Ant1	2402	-14.00	≤8.00	PASS
		2440	-14.76	≤8.00	PASS
		2480	-13.58	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

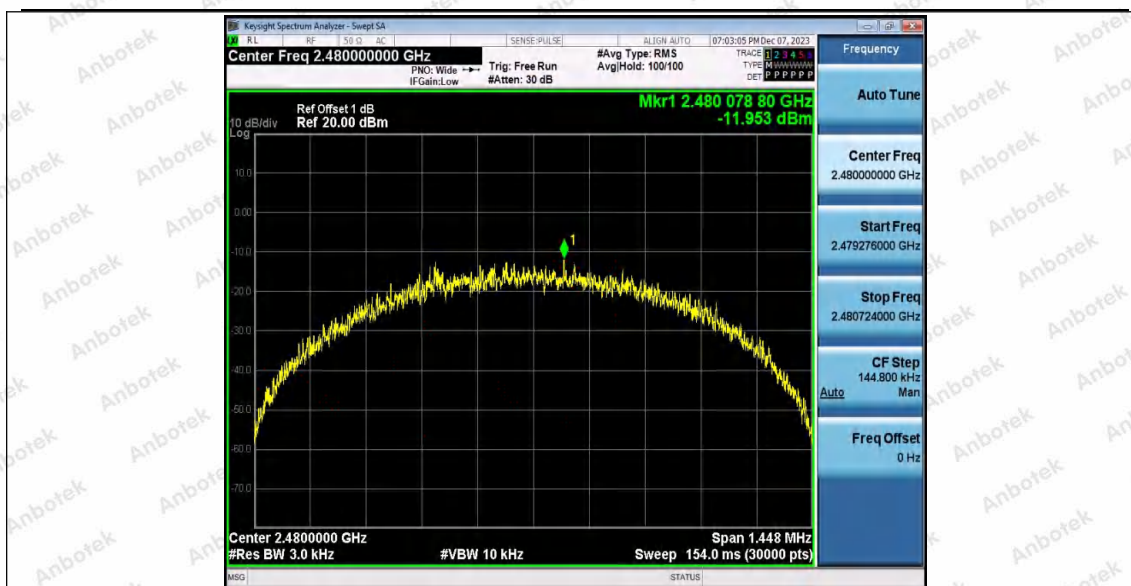
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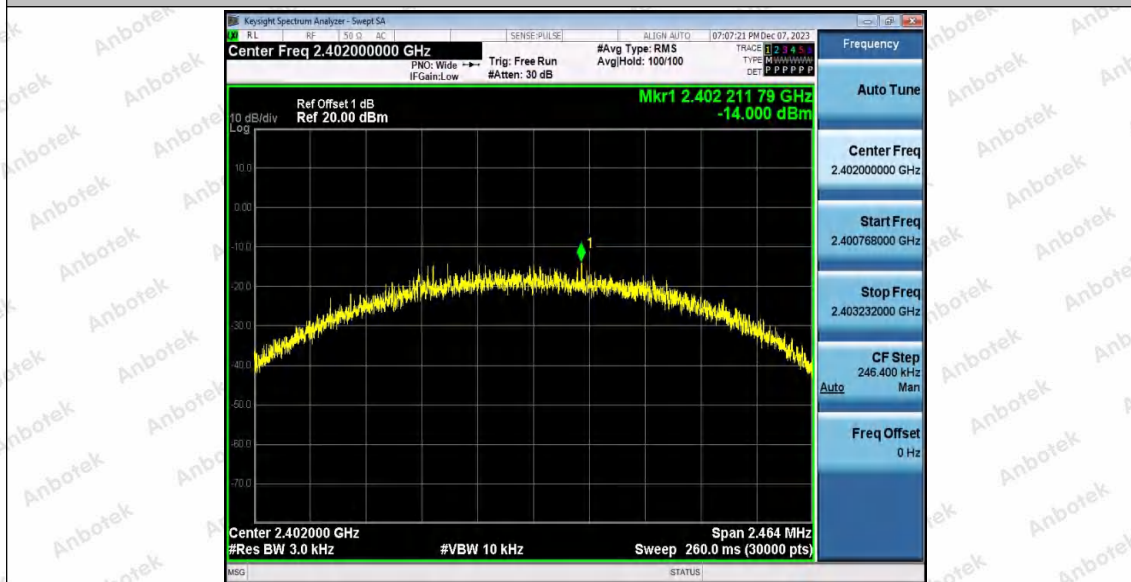


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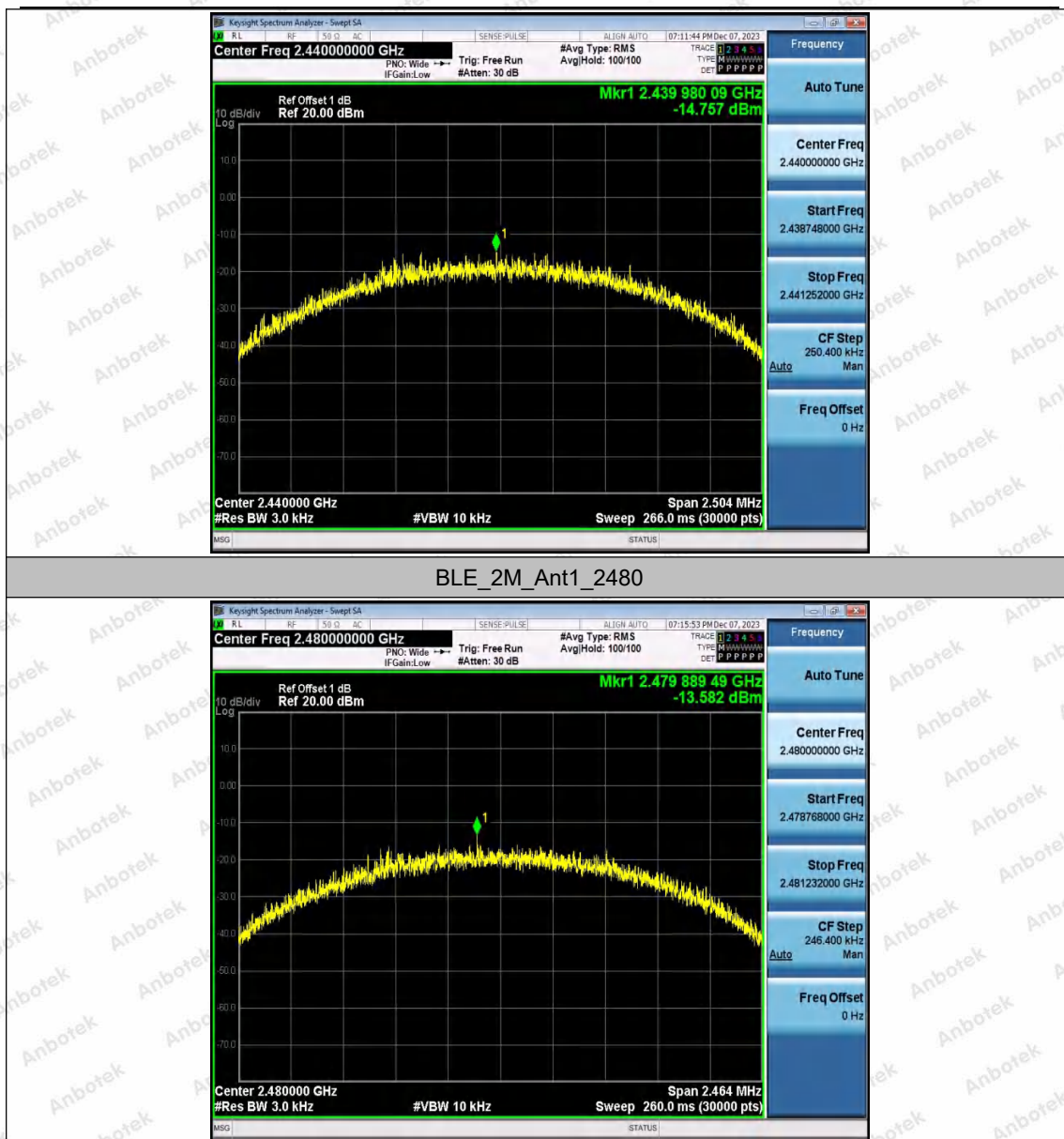


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





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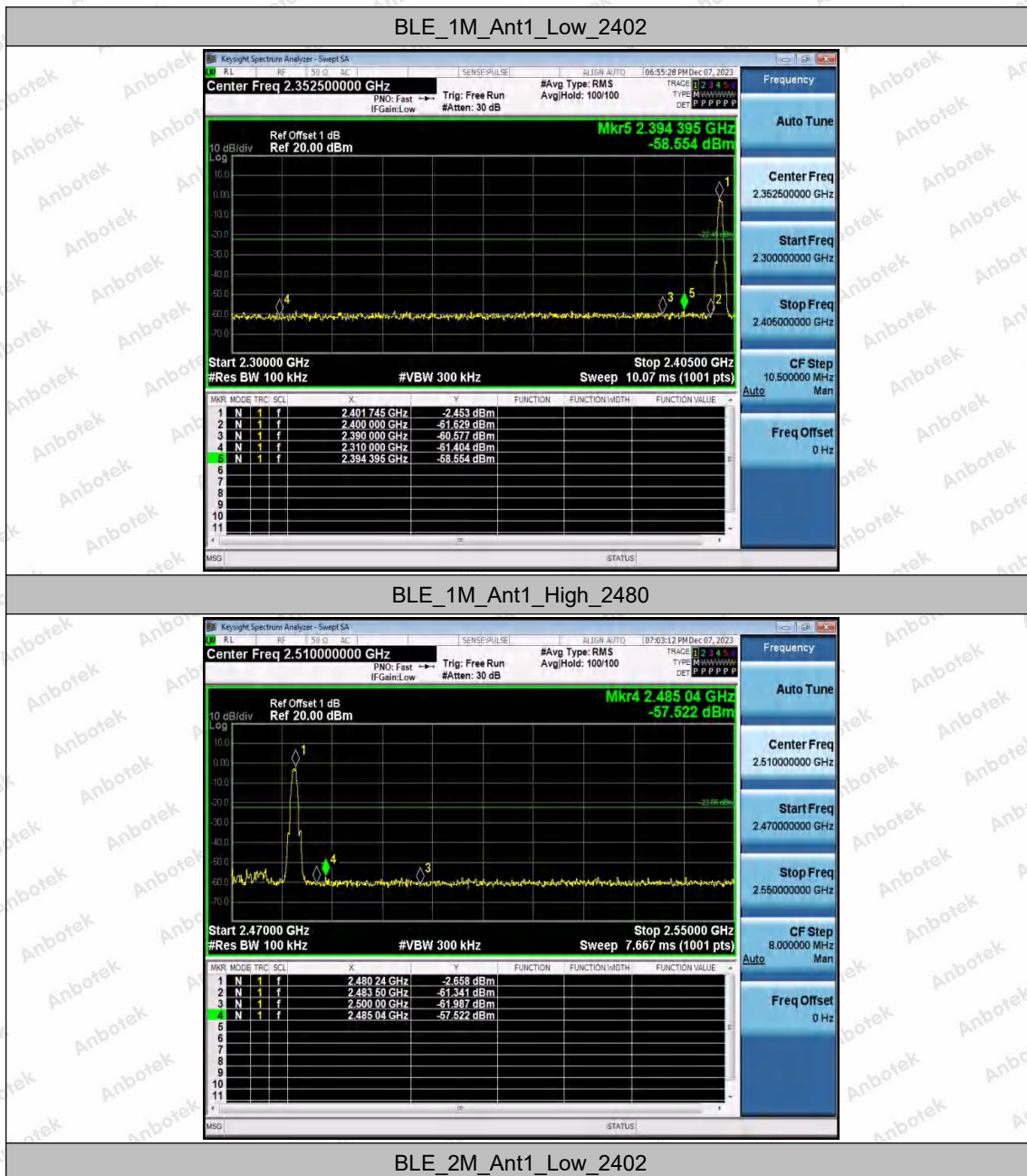
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.45	-58.55	≤-22.45	PASS
		High	2480	-2.66	-57.52	≤-22.66	PASS
BLE_2M	Ant1	Low	2402	-3.31	-37.11	≤-23.31	PASS
		High	2480	-4.76	-56.99	≤-24.76	PASS



Test Graphs



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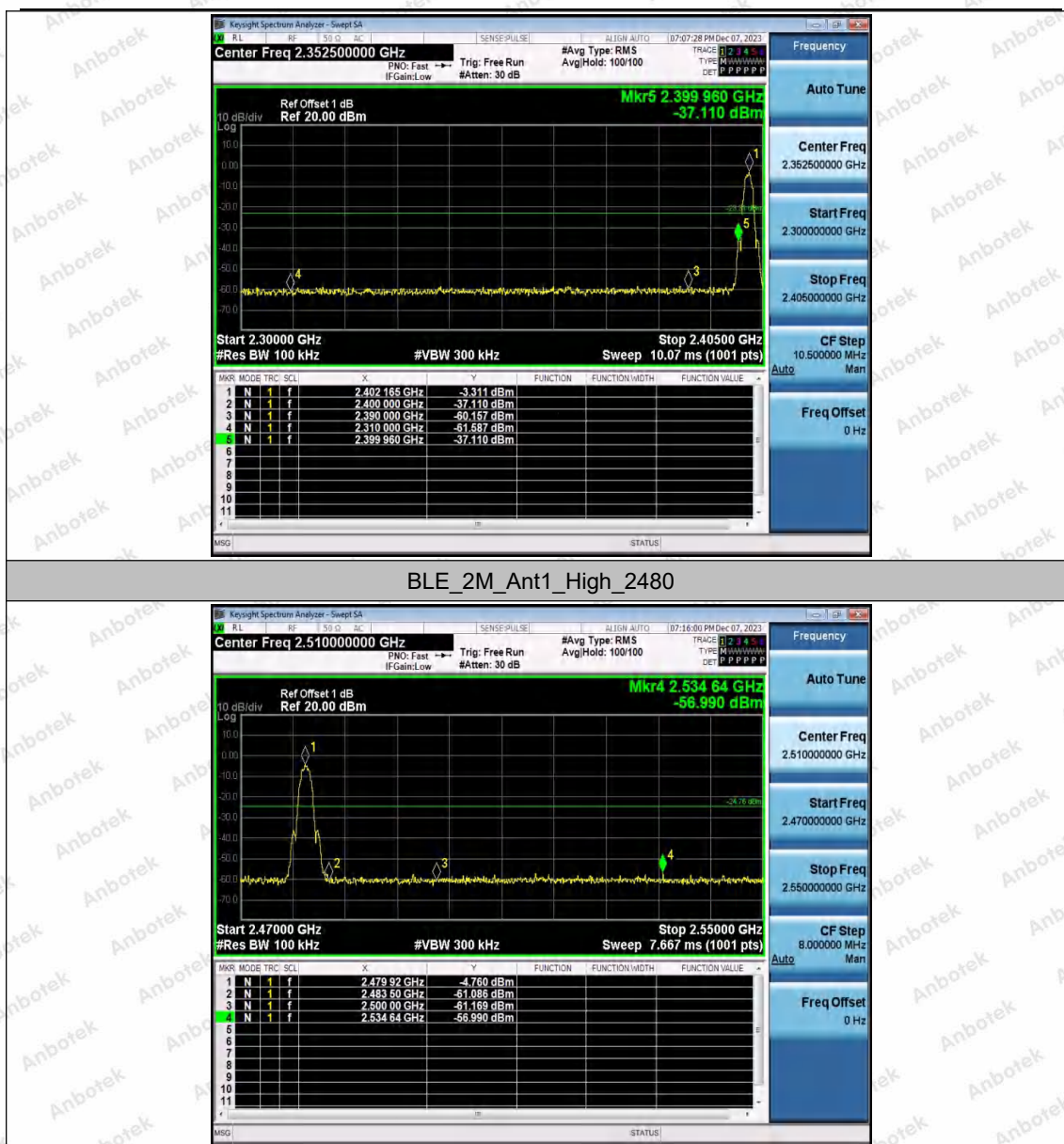


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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.47	-3.47	---	PASS
			30~1000	-3.47	-68.94	≤-23.47	PASS
			1000~26500	-3.47	-43.22	≤-23.47	PASS
		2440	Reference	-3.51	-3.51	---	PASS
			30~1000	-3.51	-68.81	≤-23.51	PASS
			1000~26500	-3.51	-41.78	≤-23.51	PASS
		2480	Reference	-3.65	-3.65	---	PASS
			30~1000	-3.65	-68.72	≤-23.65	PASS
			1000~26500	-3.65	-40.48	≤-23.65	PASS
BLE_2M	Ant1	2402	Reference	-3.29	-3.29	---	PASS
			30~1000	-3.29	-68.79	≤-23.29	PASS
			1000~26500	-3.29	-44.09	≤-23.29	PASS
		2440	Reference	-5.19	-5.19	---	PASS
			30~1000	-5.19	-69.34	≤-25.19	PASS
			1000~26500	-5.19	-42.49	≤-25.19	PASS
		2480	Reference	-5.32	-5.32	---	PASS
			30~1000	-5.32	-69.54	≤-25.32	PASS
			1000~26500	-5.32	-41	≤-25.32	PASS

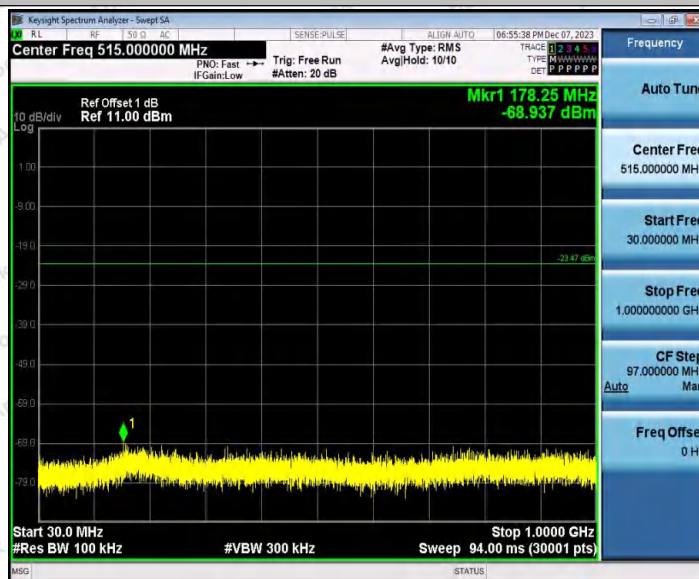


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

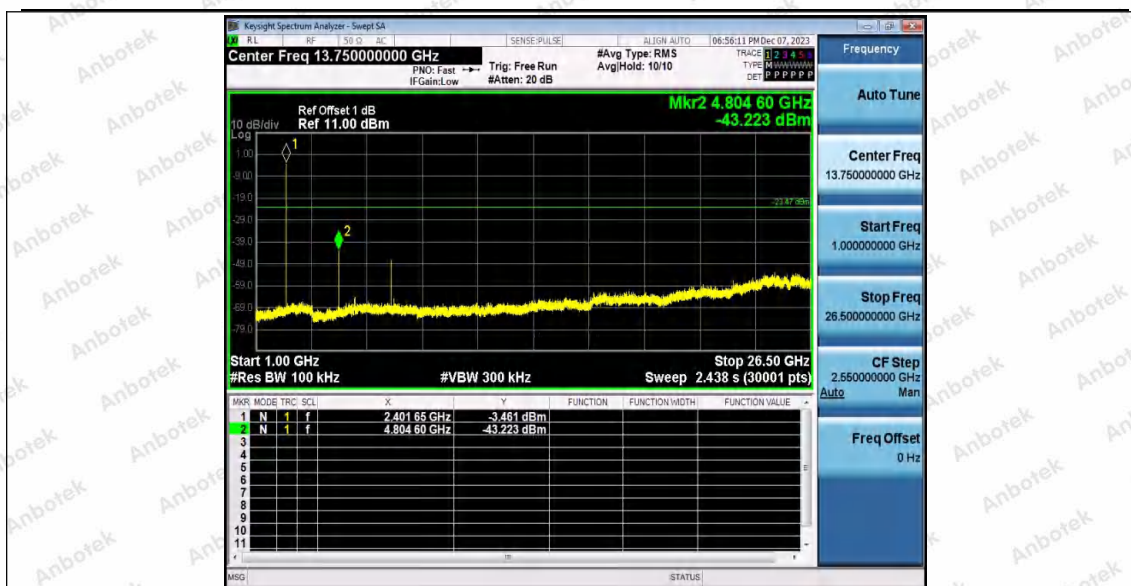
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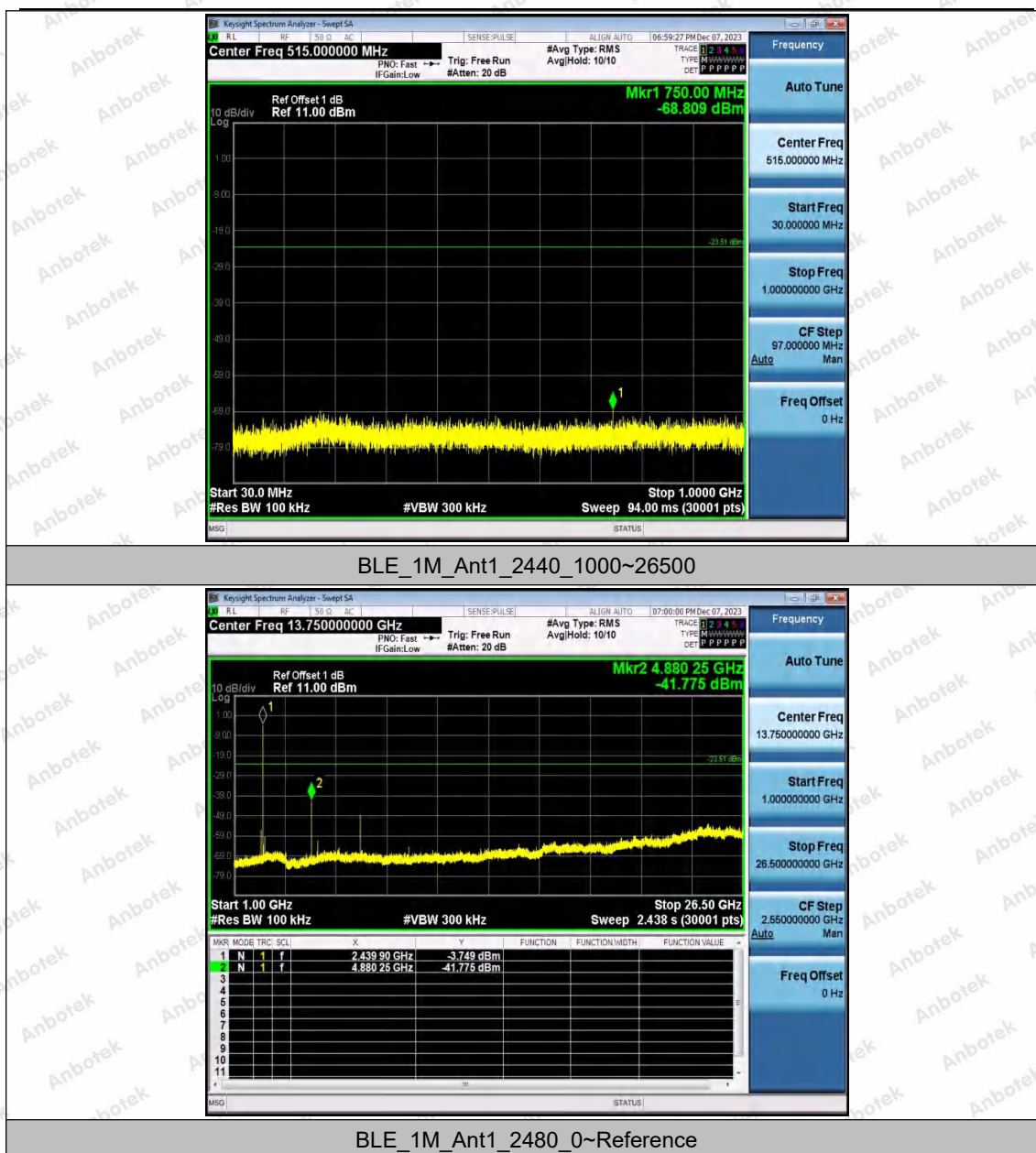


BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000





BLE_1M_Ant1_2440_1000~26500

BLE_1M_Ant1_2480_0~Reference

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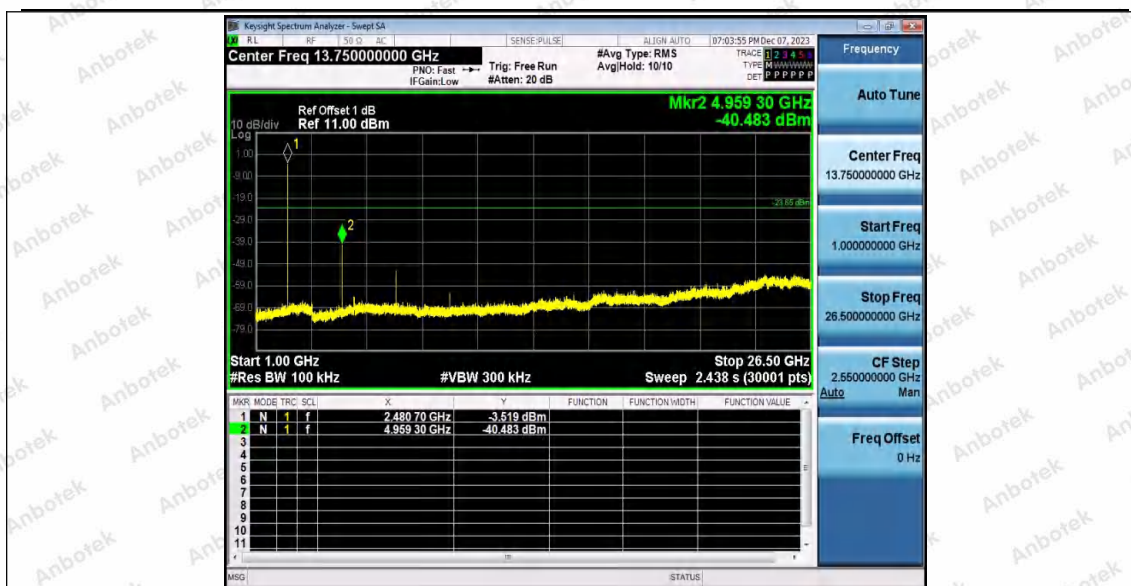


BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



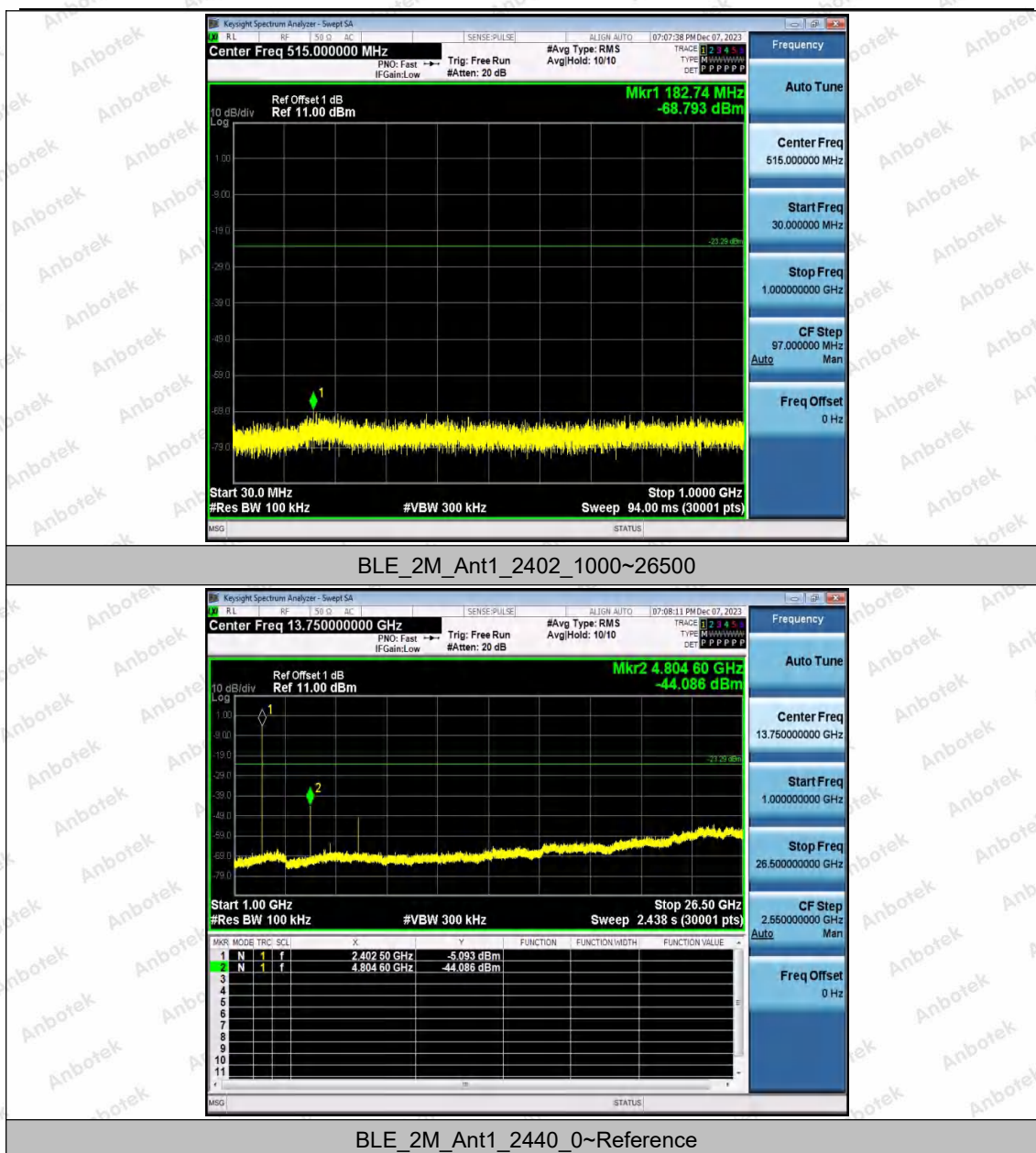


BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000





BLE_2M_Ant1_2402_1000~26500

BLE_2M_Ant1_2440_0~Reference

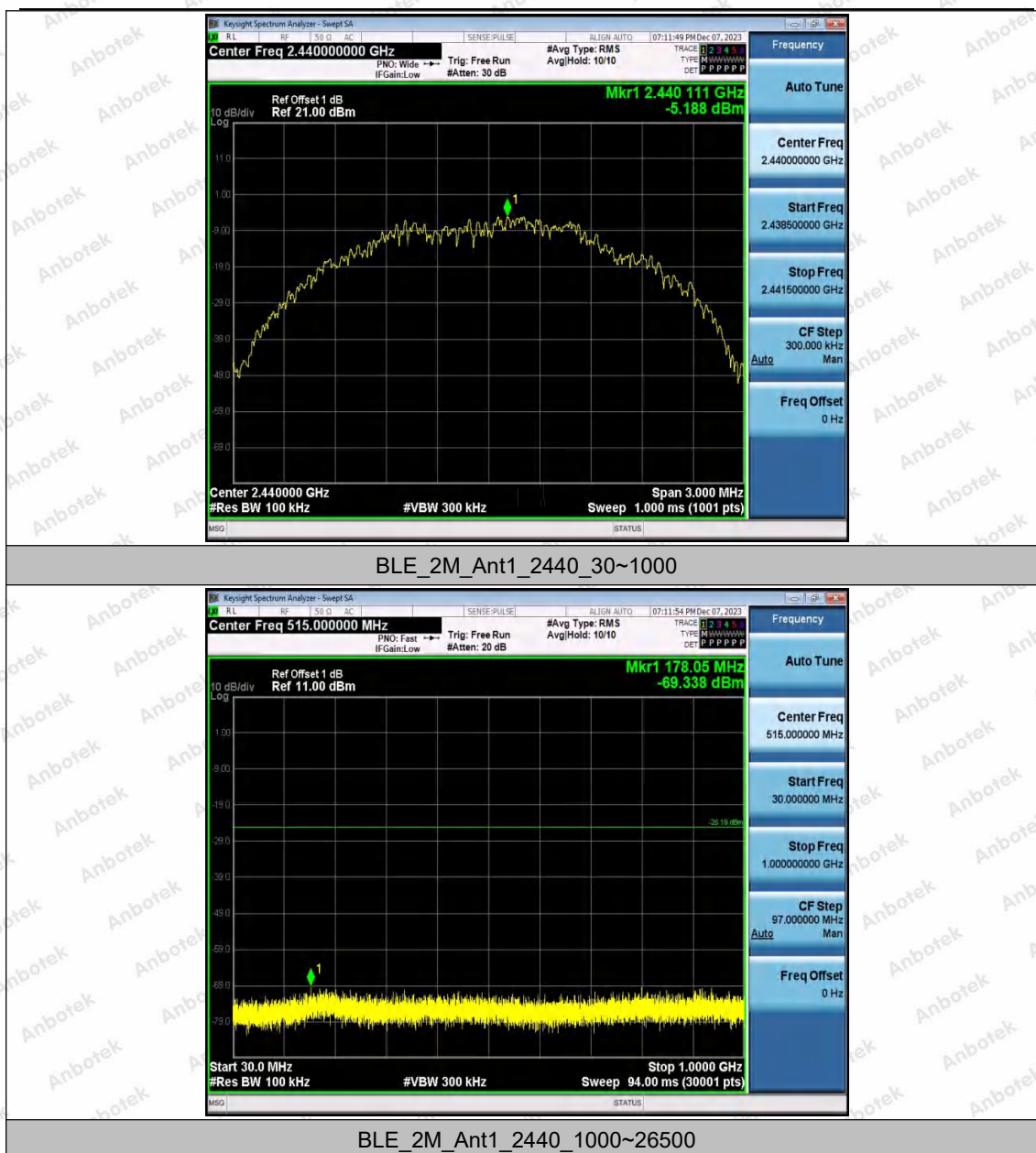
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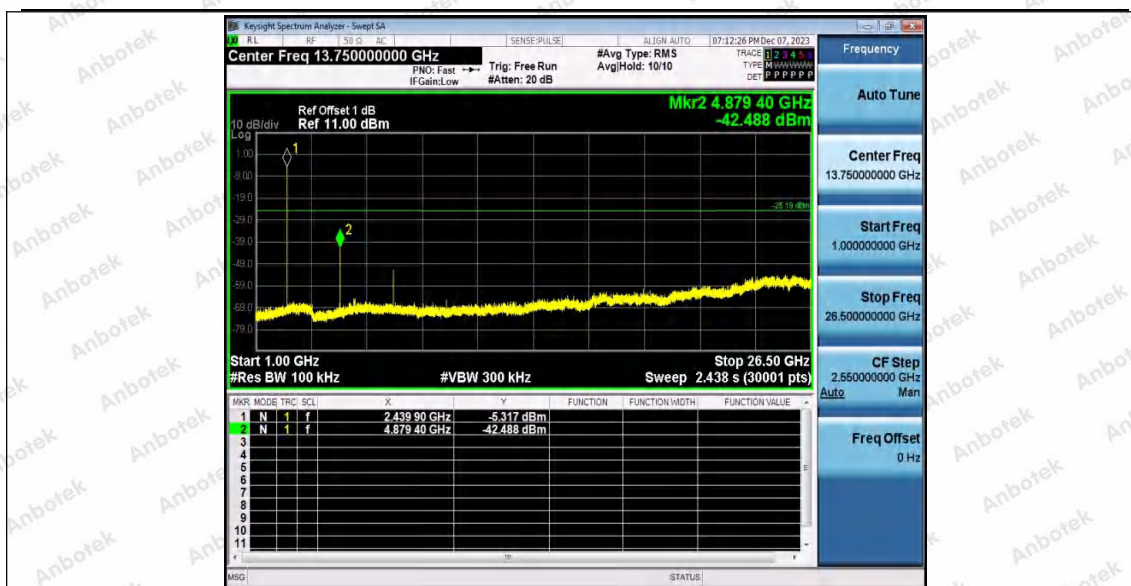
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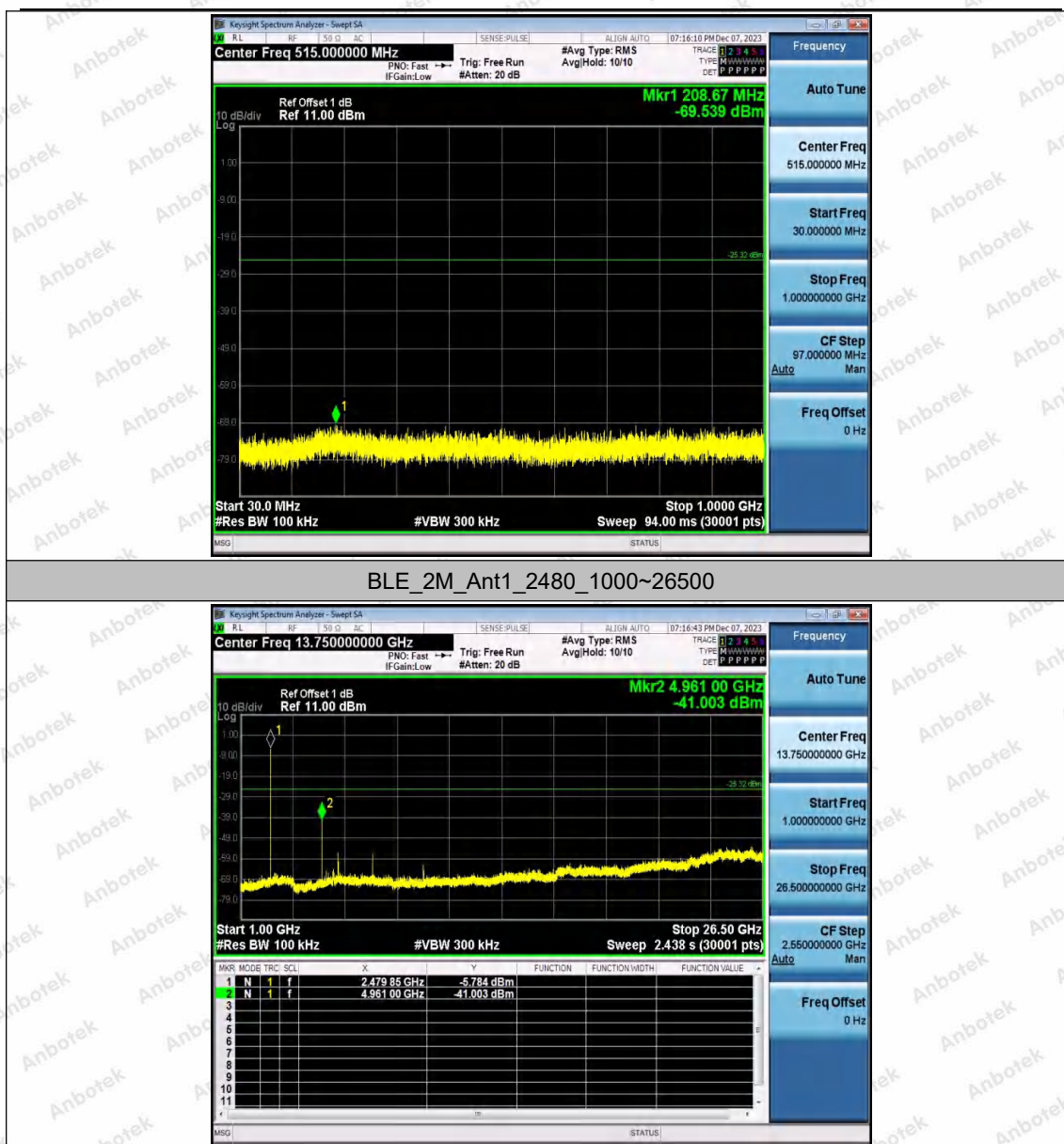


BLE_2M_Ant1_2480_0~Reference



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	19.00	19.00	100	0.00
		2440	19.00	19.00	100	0.00
		2480	19.00	19.00	100	0.00
BLE_2M	Ant1	2402	19.00	19.00	100	0.00
		2440	19.00	19.00	100	0.00
		2480	19.00	19.00	100	0.00



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

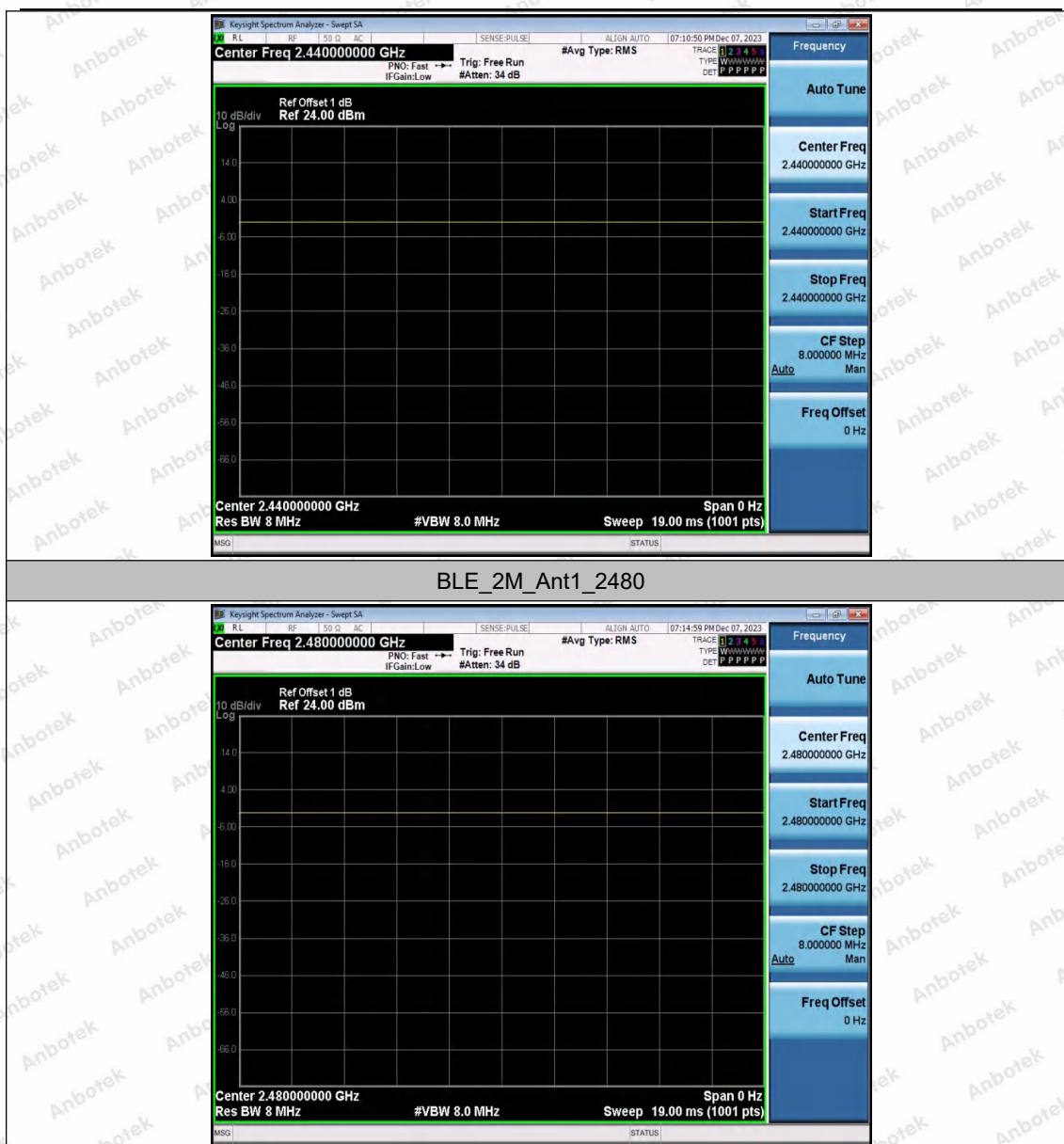
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