

Appendix Test Data

Report No.:	18220WC40015602	Test Sample No.:	1-2-2
Start Test Date:	2024.2.21	Finish Test Date:	2024.2.23
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.3°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	0.700	2401.648	2402.348	0.5	PASS
		2440	0.656	2439.668	2440.324	0.5	PASS
		2480	0.696	2479.652	2480.348	0.5	PASS
BLE_2M	Ant1	2402	1.180	2401.400	2402.580	0.5	PASS
		2440	1.260	2439.344	2440.604	0.5	PASS
		2480	1.184	2479.396	2480.580	0.5	PASS



Test Graphs



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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	1.0411	2401.4752	2402.5163
		2440	1.0415	2439.4790	2440.5205
		2480	1.0530	2479.4728	2480.5258
BLE_2M	Ant1	2402	2.1143	2400.9571	2403.0714
		2440	2.1027	2438.9688	2441.0715
		2480	2.1270	2478.9474	2481.0744



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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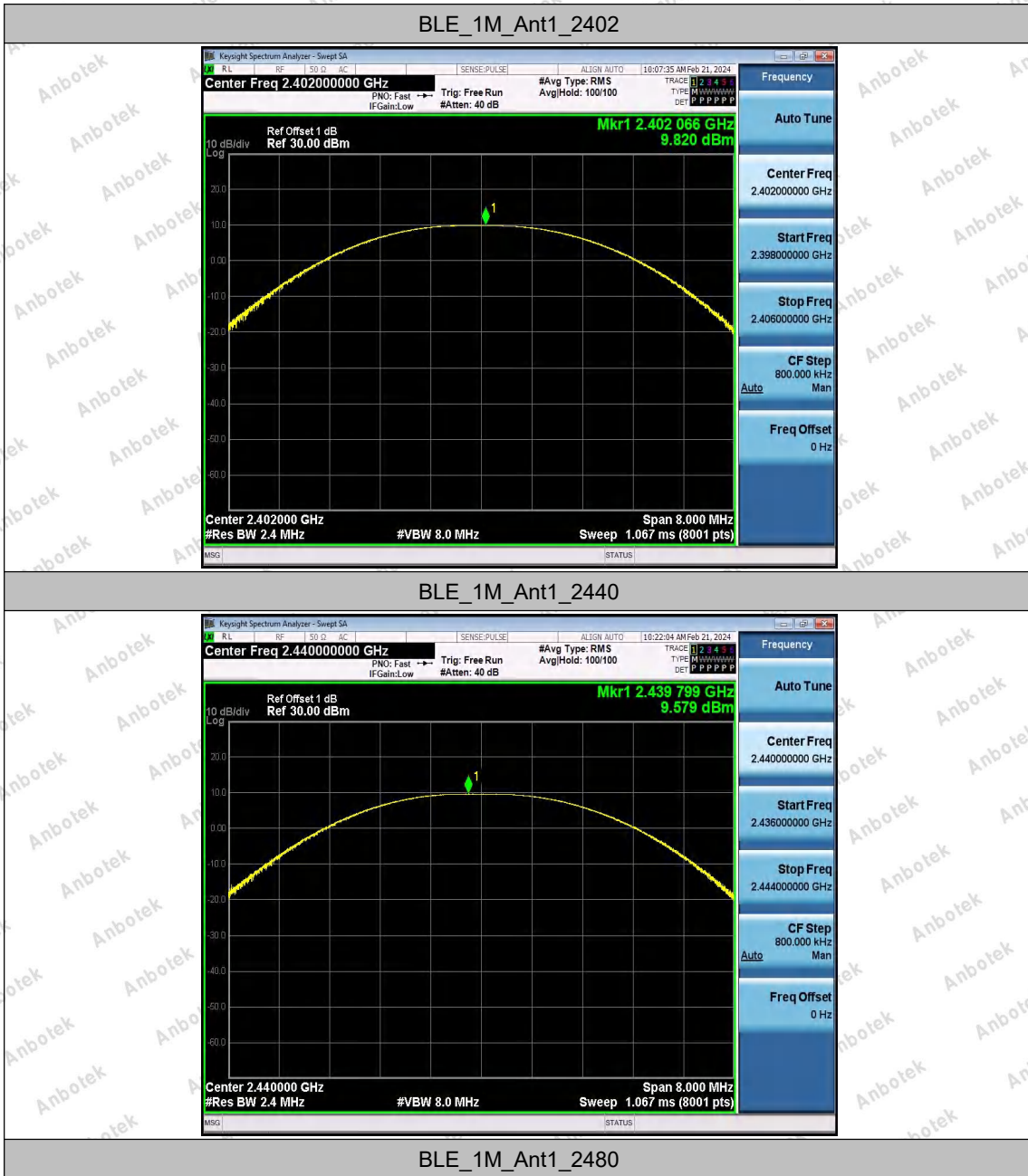
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	9.82	≤30	PASS
		2440	9.58	≤30	PASS
		2480	9.35	≤30	PASS
BLE_2M	Ant1	2402	9.85	≤30	PASS
		2440	9.6	≤30	PASS
		2480	9.39	≤30	PASS



Test Graphs Peak

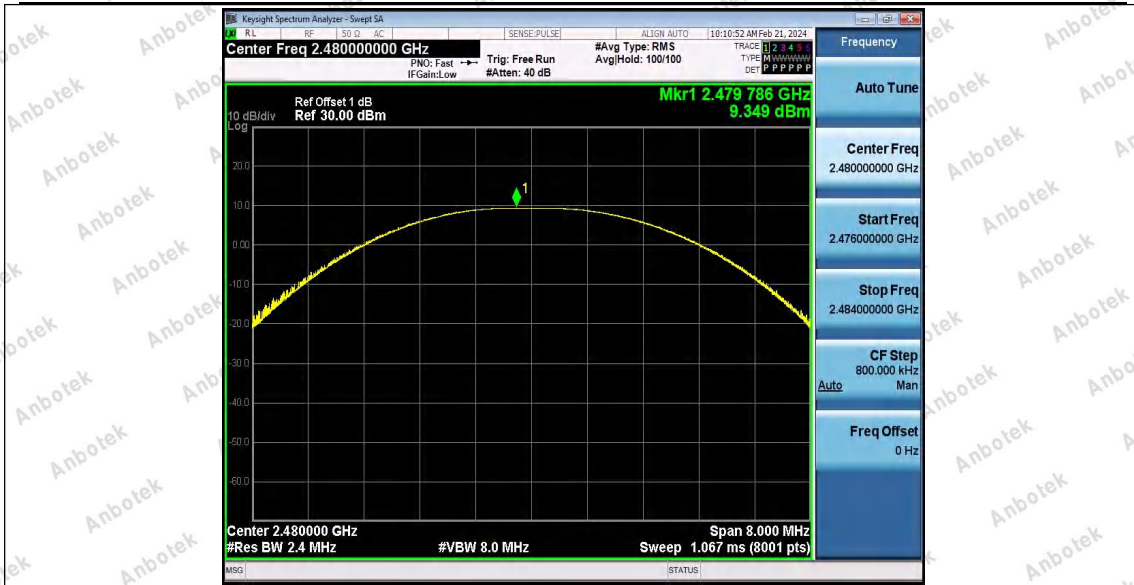


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



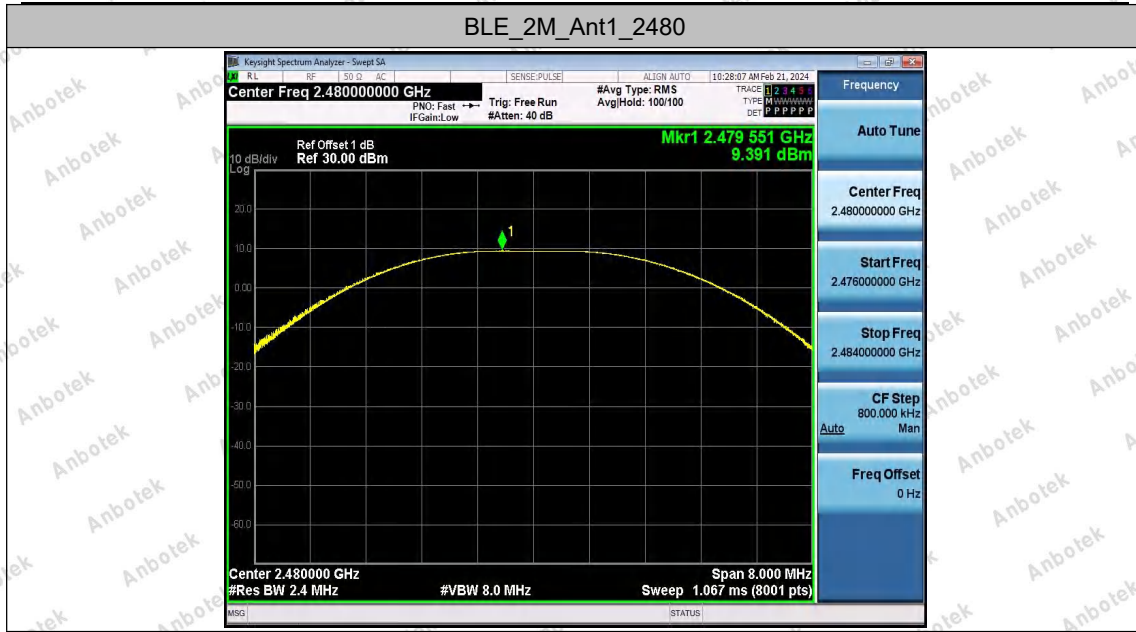
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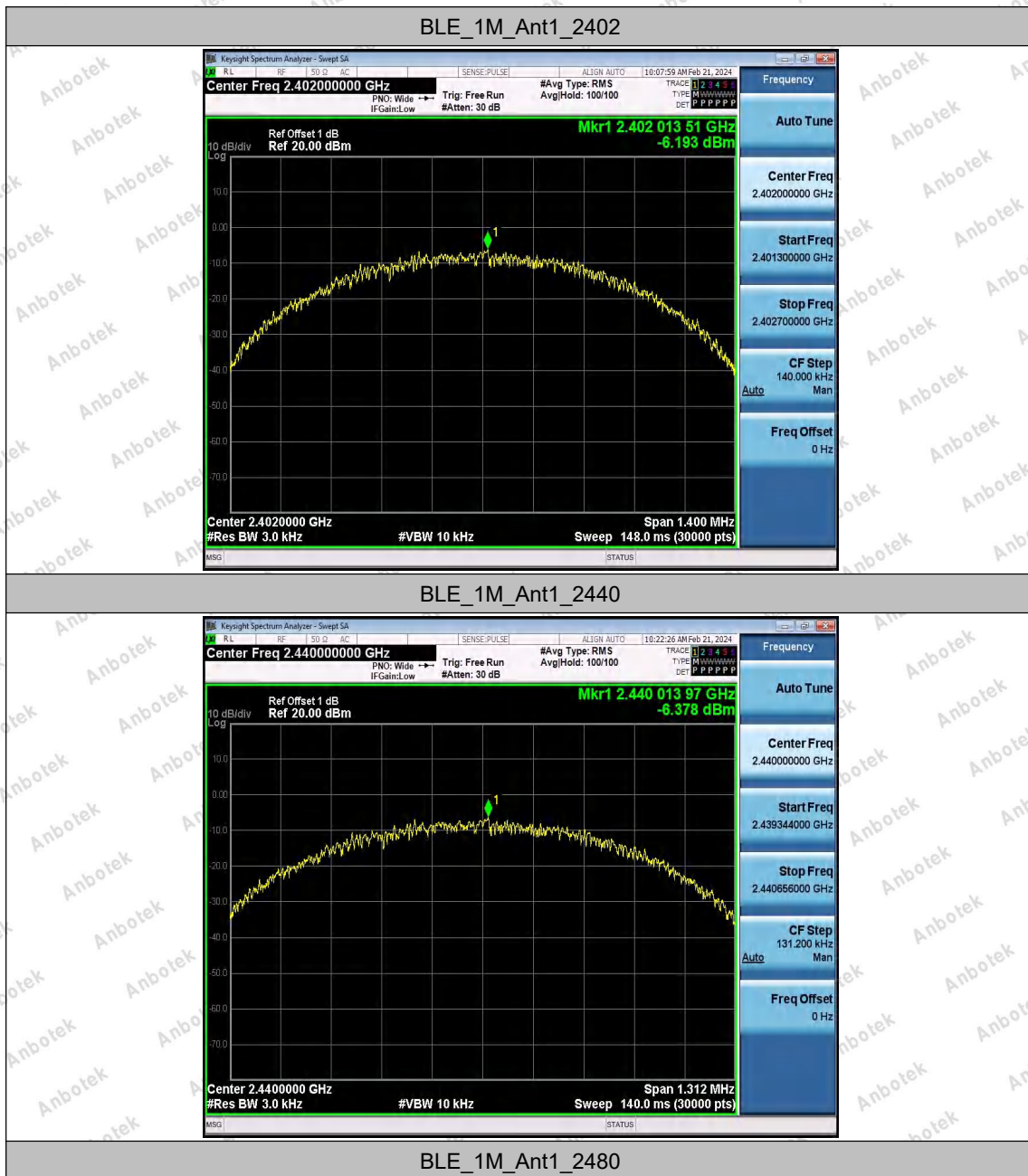
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-6.19	≤8.00	PASS
		2440	-6.38	≤8.00	PASS
		2480	-6.67	≤8.00	PASS
BLE_2M	Ant1	2402	-9.49	≤8.00	PASS
		2440	-9.72	≤8.00	PASS
		2480	-9.97	≤8.00	PASS



Test Graphs



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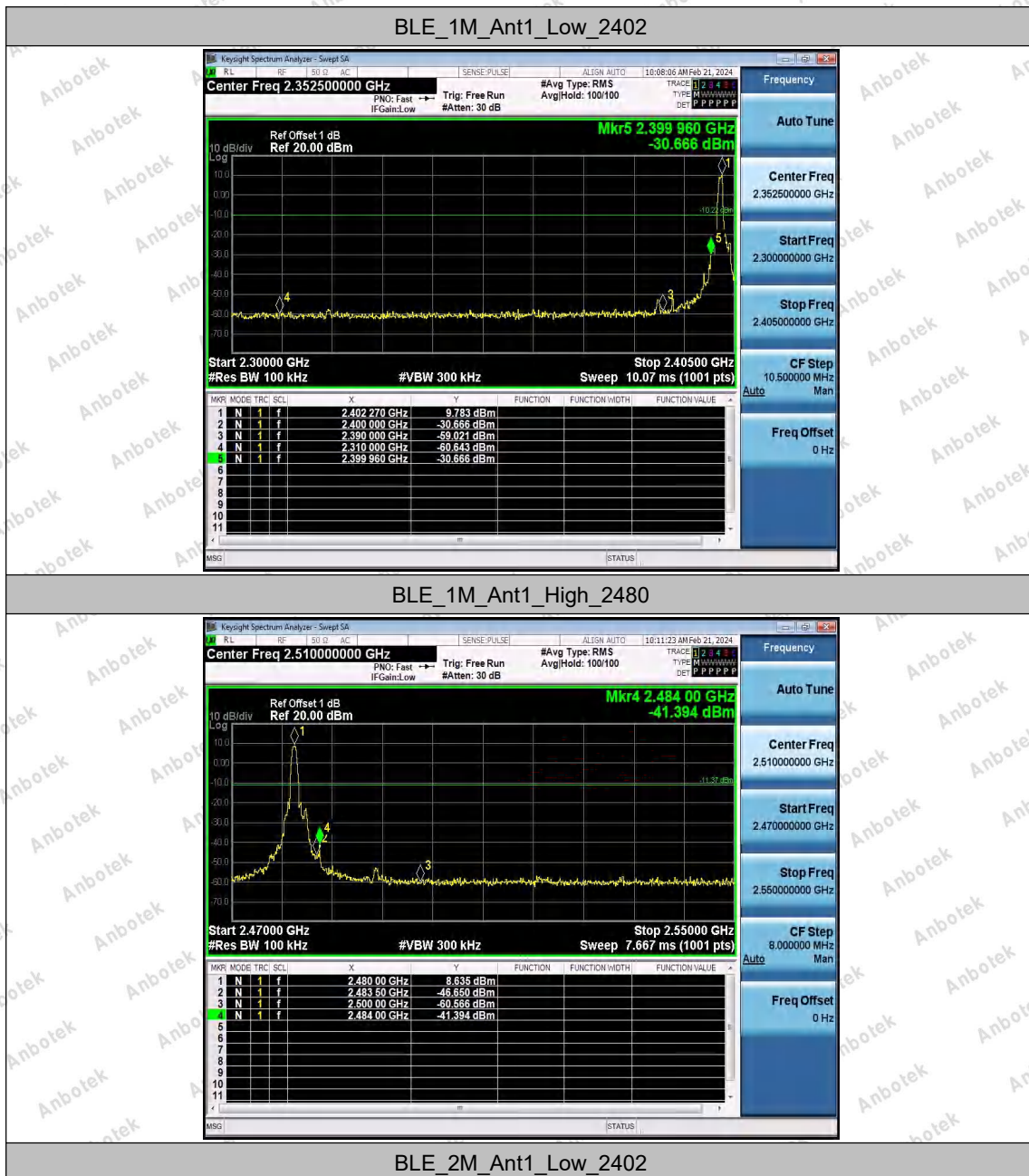
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	9.78	-30.67	≤-10.22	PASS
		High	2480	8.64	-41.39	≤-11.37	PASS
BLE_2M	Ant1	Low	2402	8.98	-24.59	≤-11.02	PASS
		High	2480	7.68	-42.13	≤-12.32	PASS



Test Graphs



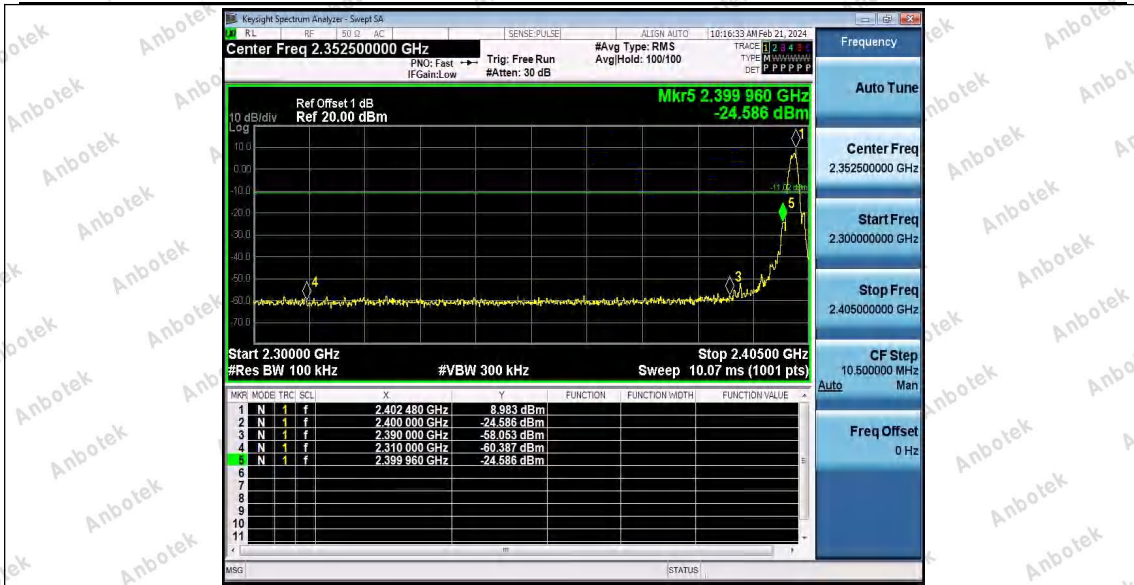
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BLE_2M_Ant1_High_2480



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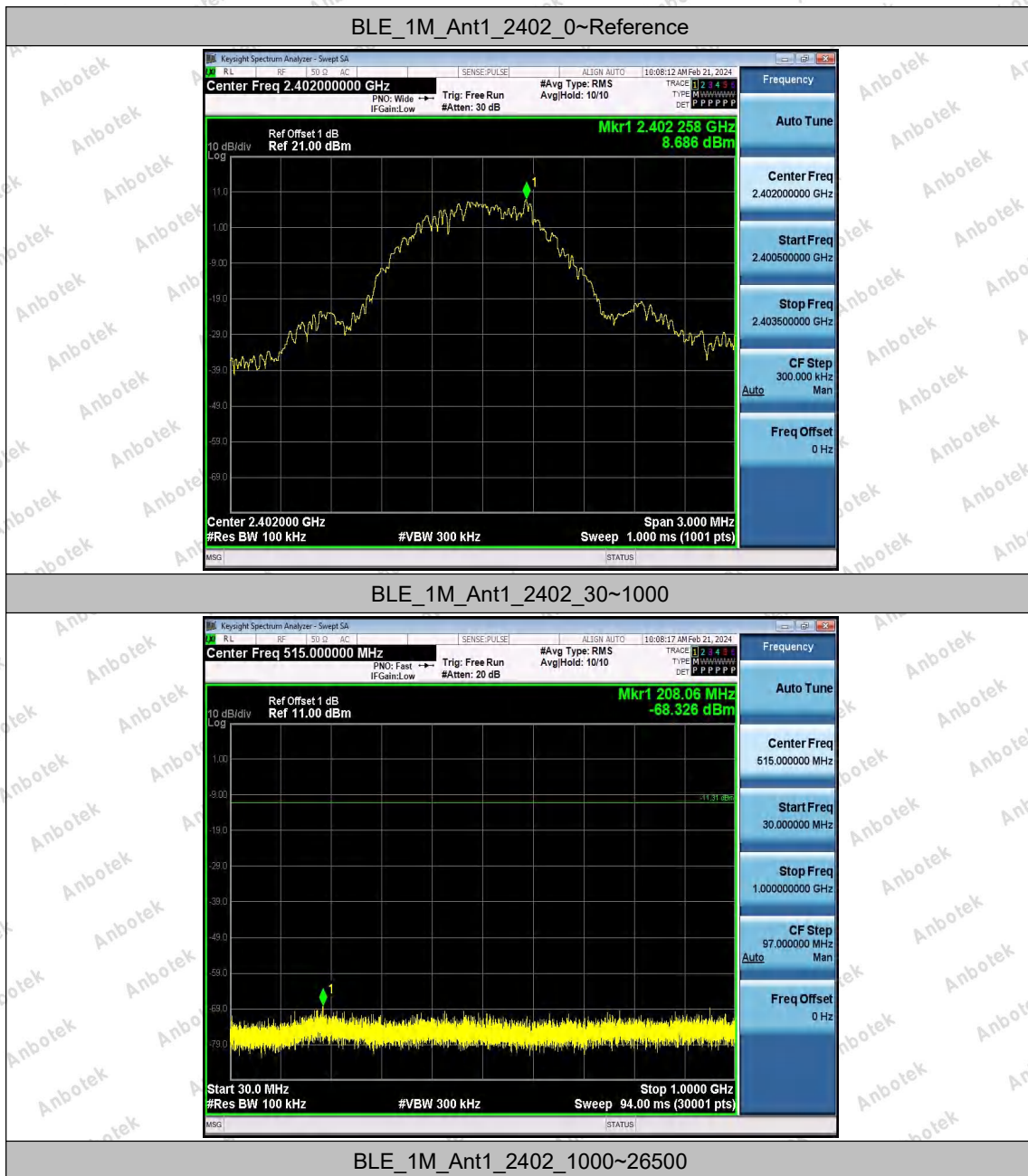
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	8.69	8.69	---	PASS
			30~1000	8.69	-68.33	≤-11.31	PASS
			1000~26500	8.69	-28.06	≤-11.31	PASS
		2440	Reference	8.54	8.54	---	PASS
			30~1000	8.54	-68.89	≤-11.46	PASS
			1000~26500	8.54	-27.93	≤-11.46	PASS
		2480	Reference	7.78	7.78	---	PASS
			30~1000	7.78	-68.86	≤-12.22	PASS
			1000~26500	7.78	-24.27	≤-12.22	PASS
BLE_2M	Ant1	2402	Reference	7.85	7.85	---	PASS
			30~1000	7.85	-69.14	≤-12.15	PASS
			1000~26500	7.85	-28.8	≤-12.15	PASS
		2440	Reference	6.09	6.09	---	PASS
			30~1000	6.09	-66.93	≤-13.91	PASS
			1000~26500	6.09	-29.02	≤-13.91	PASS
		2480	Reference	5.84	5.84	---	PASS
			30~1000	5.84	-58.83	≤-14.16	PASS
			1000~26500	5.84	-26.43	≤-14.16	PASS



Test Graphs



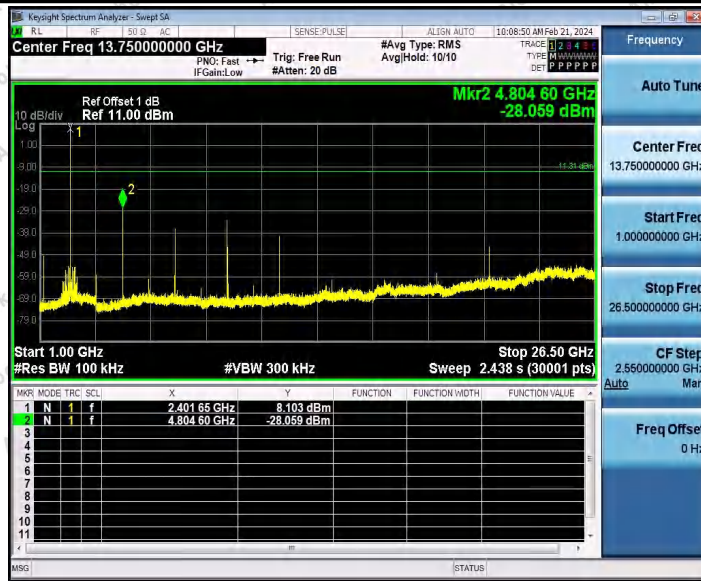
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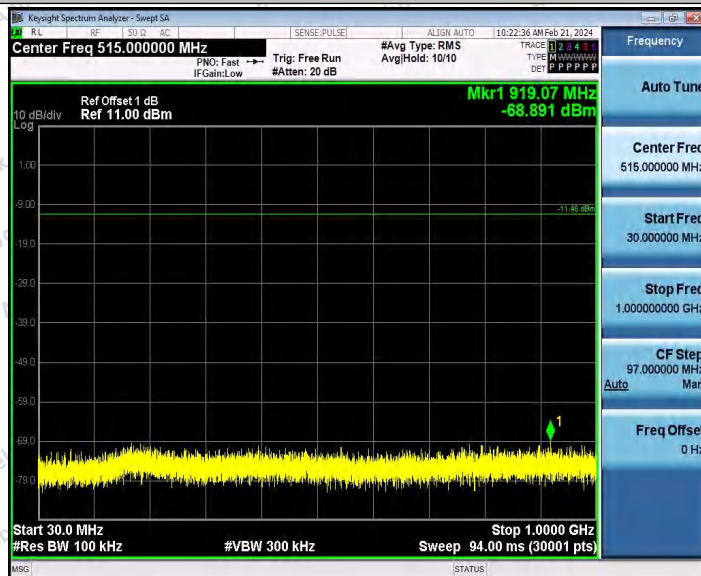




BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



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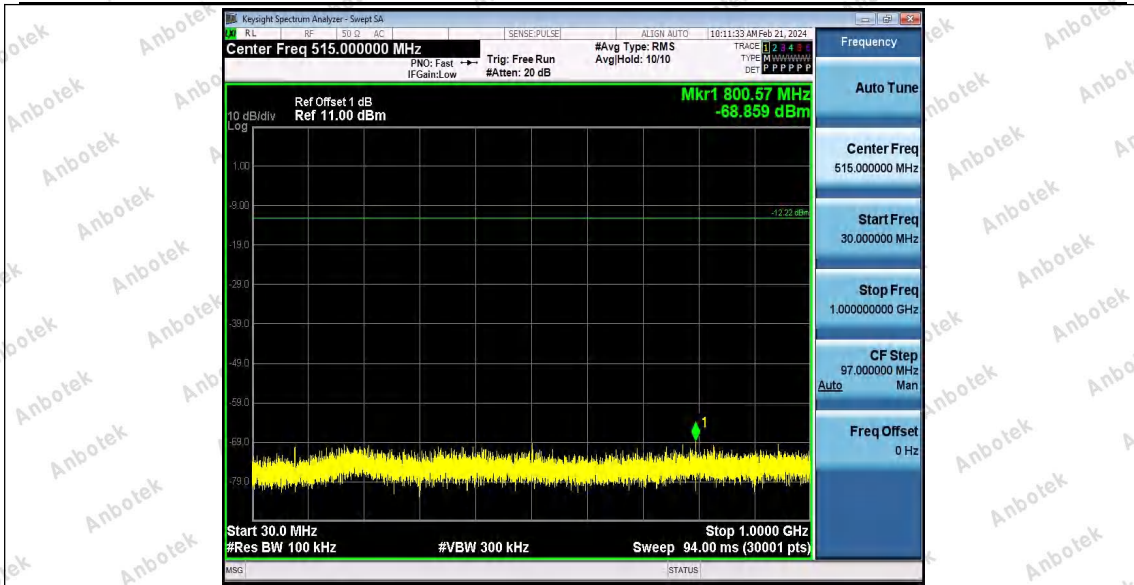
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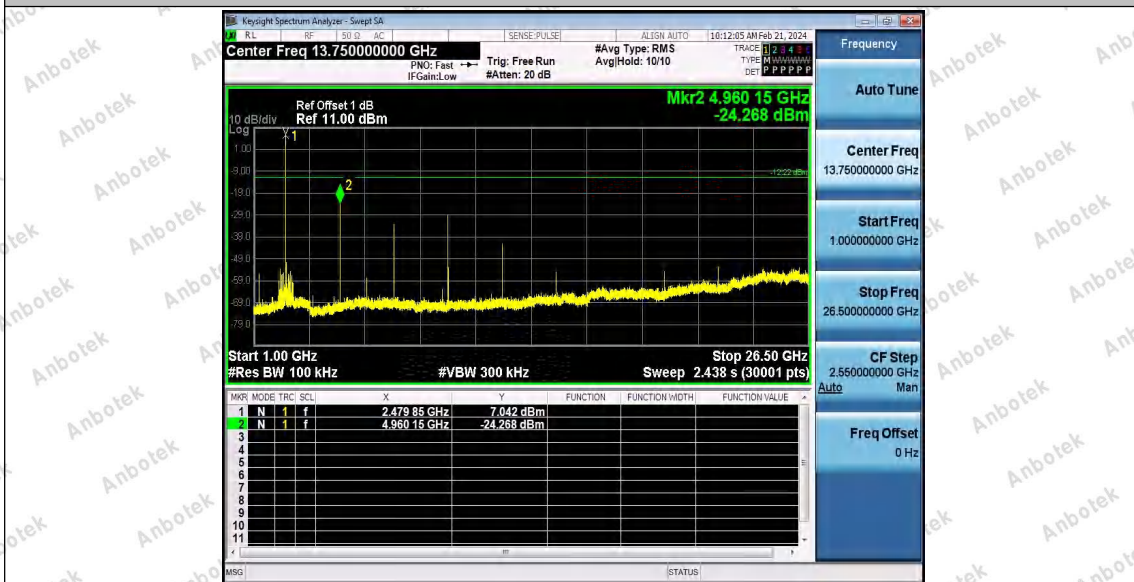


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BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference



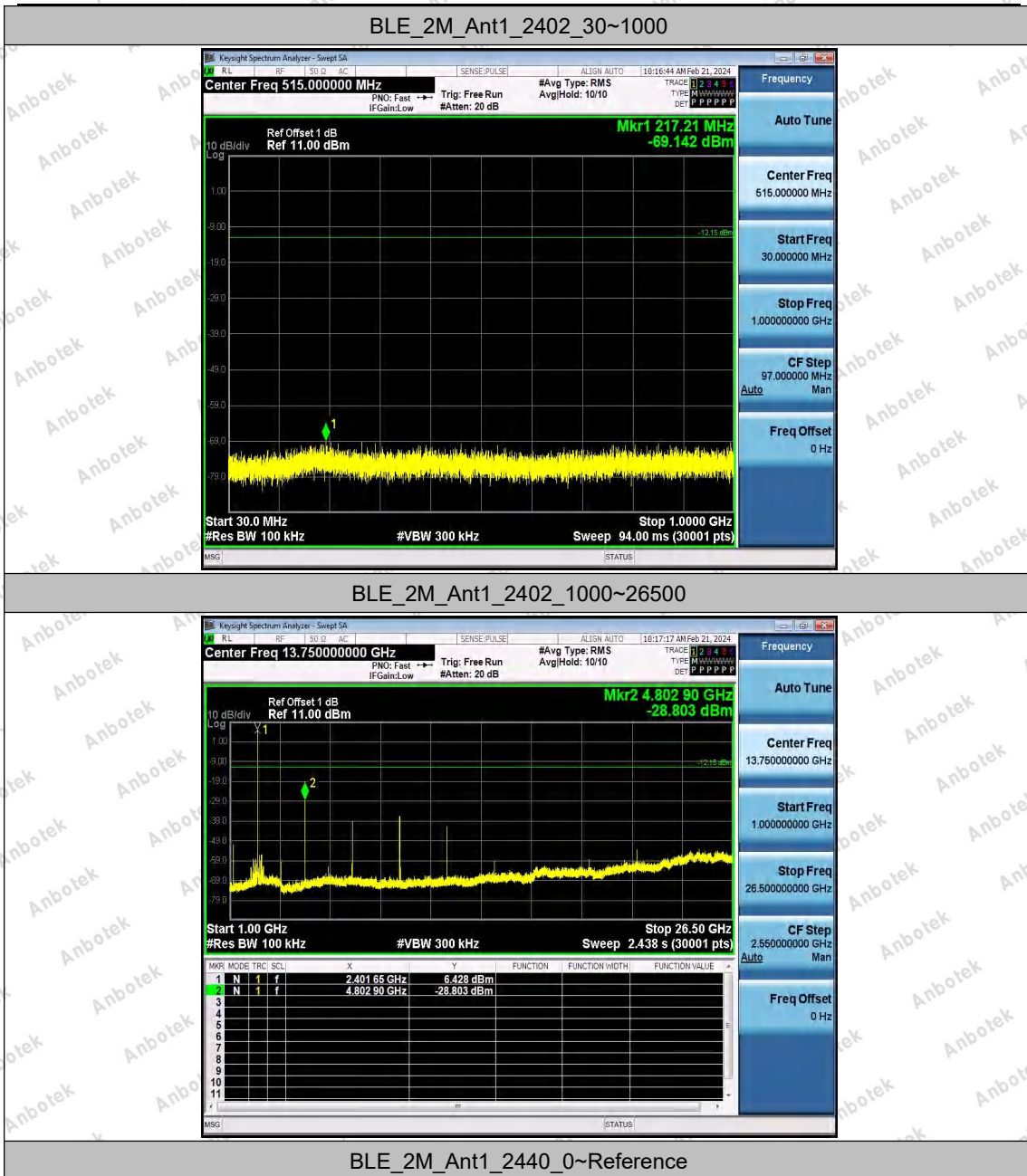
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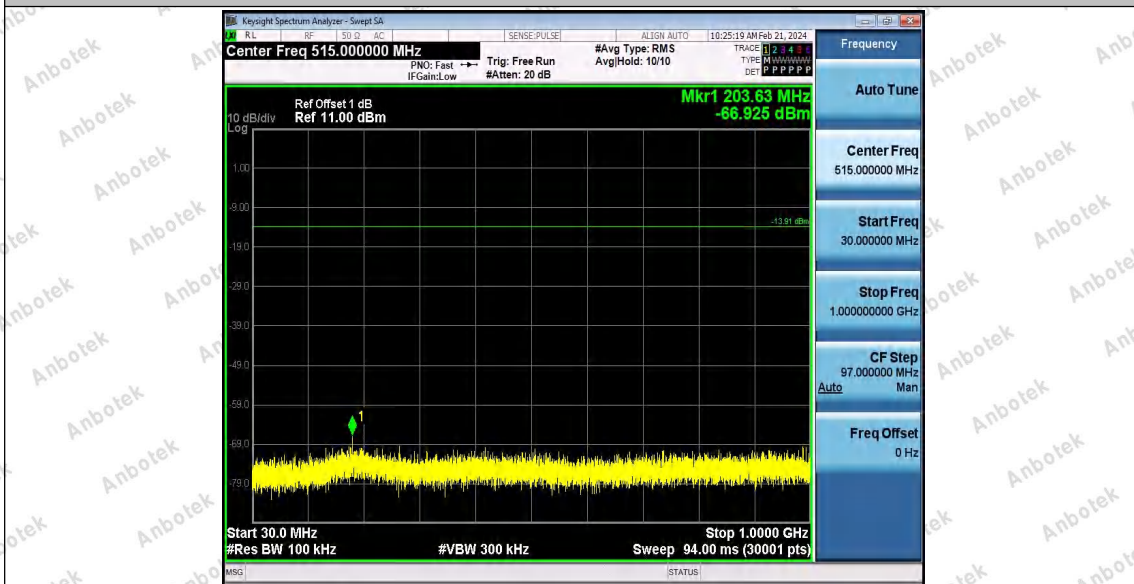


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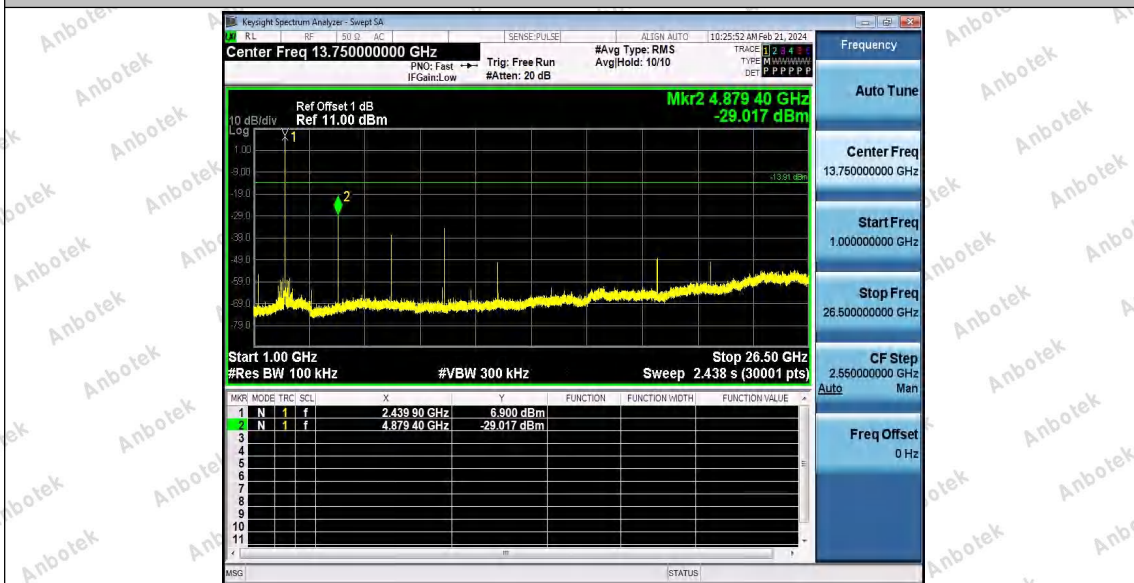




BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



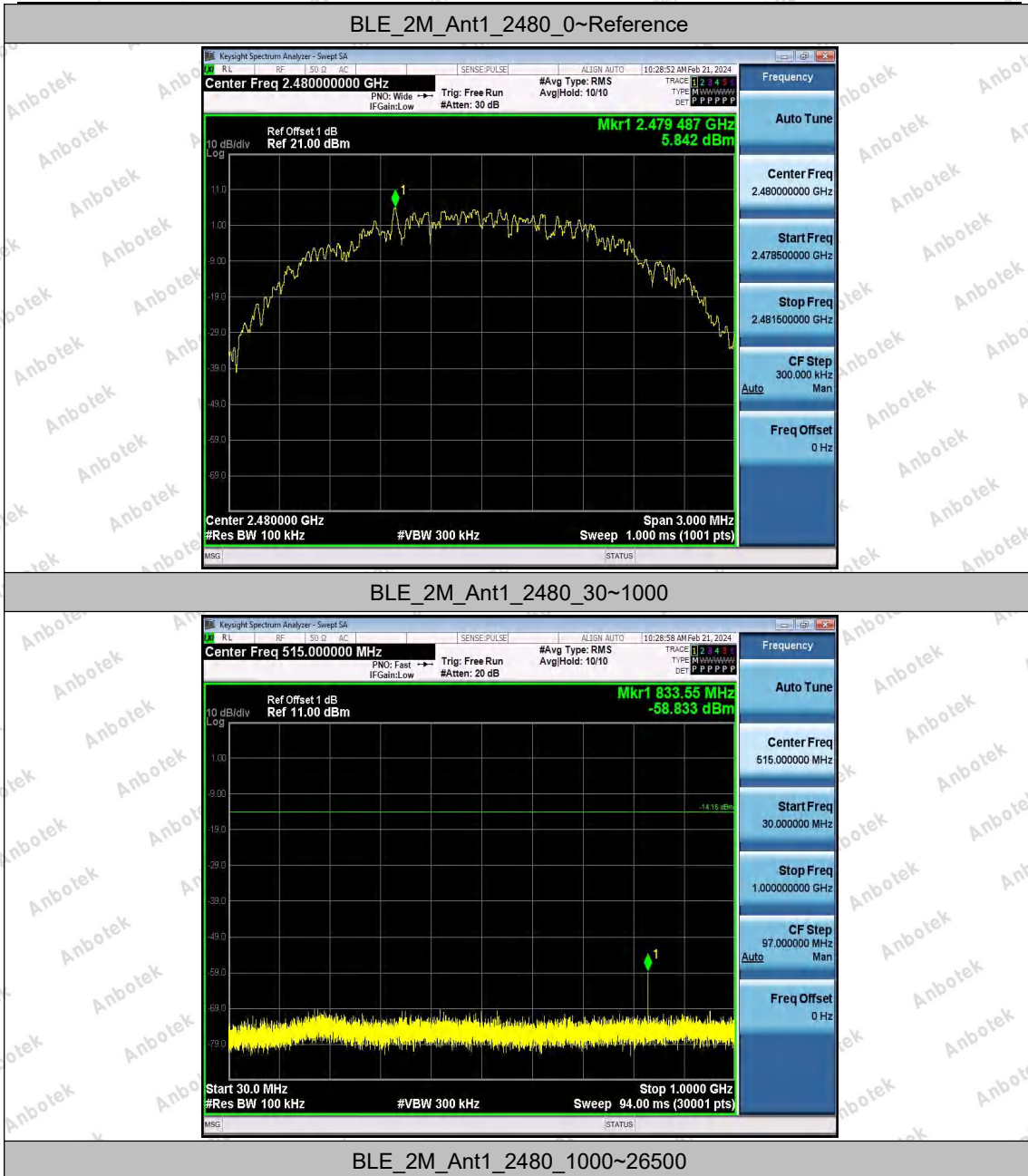
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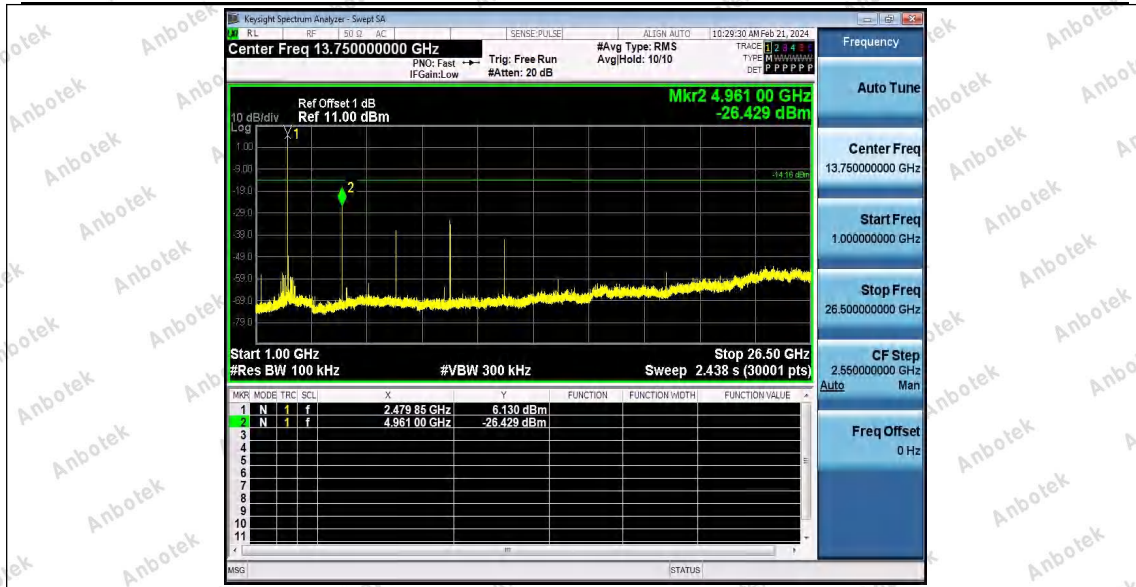
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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.12	2.50	84.80	0.72
		2440	2.12	2.50	84.80	0.72
		2480	2.12	2.50	84.80	0.72
BLE_2M	Ant1	2402	1.06	1.87	56.68	2.47
		2440	1.06	1.87	56.68	2.47
		2480	1.06	1.87	56.68	2.47

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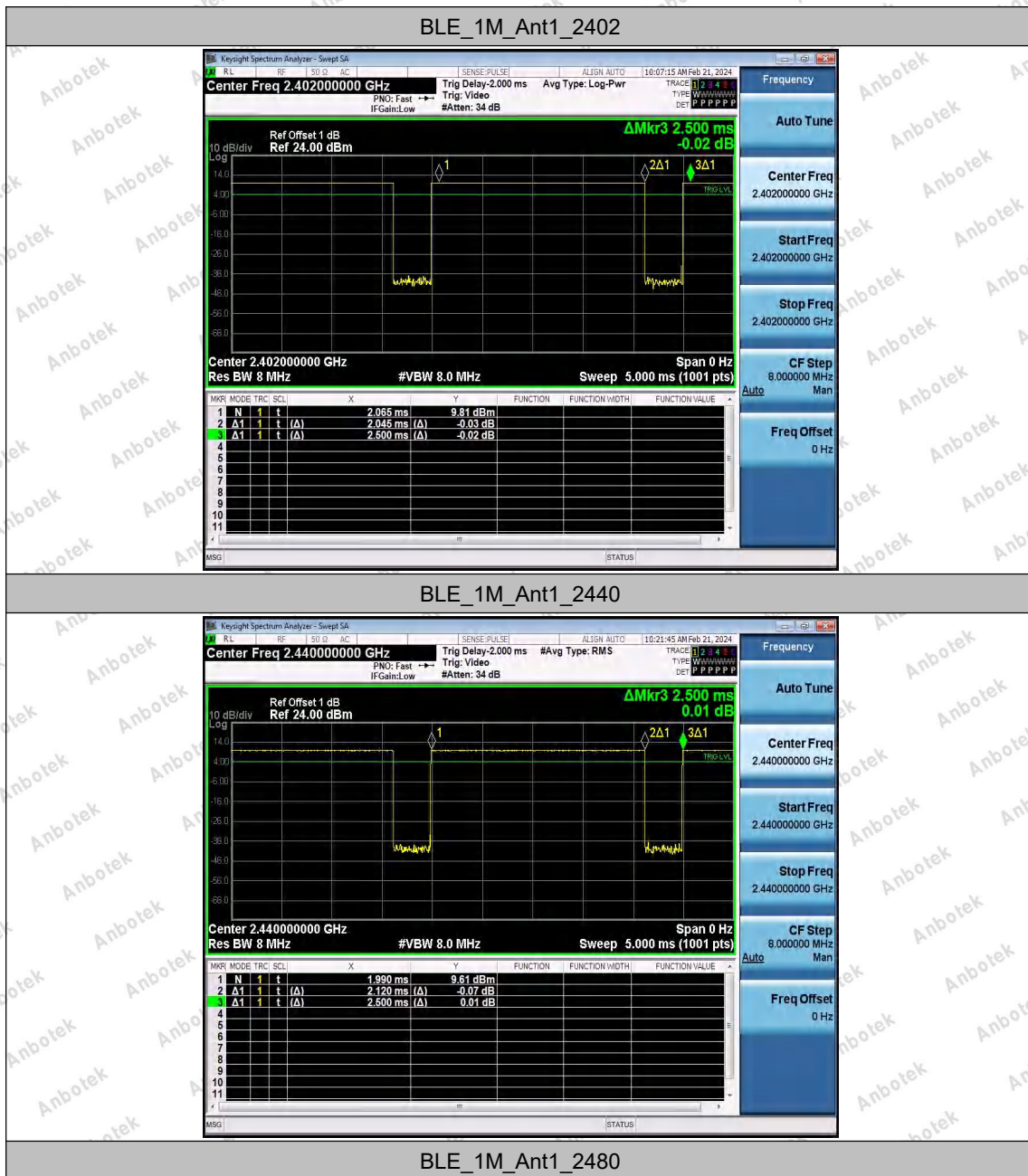


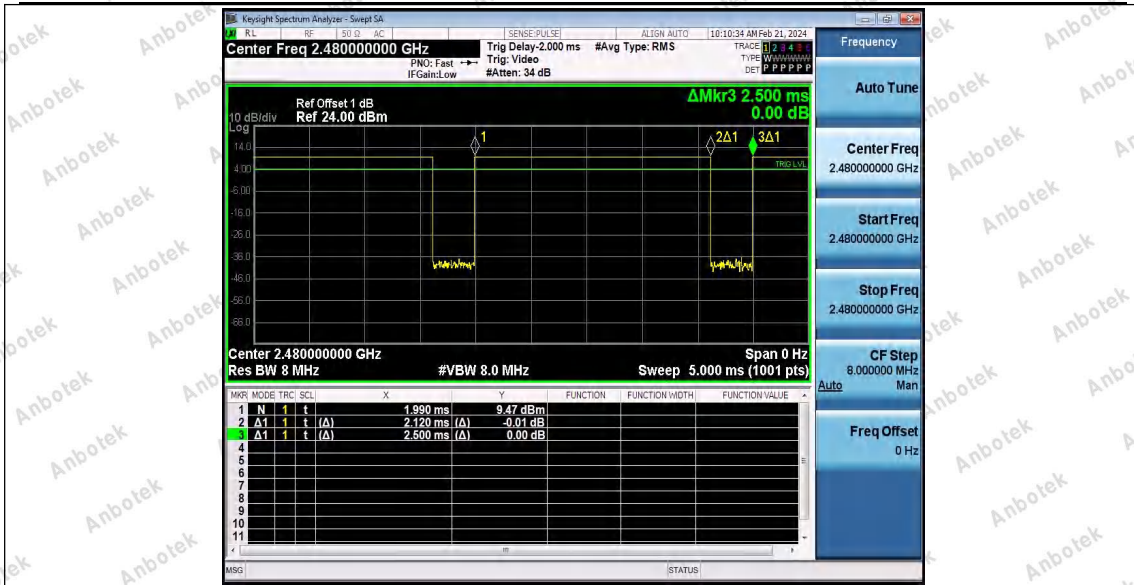
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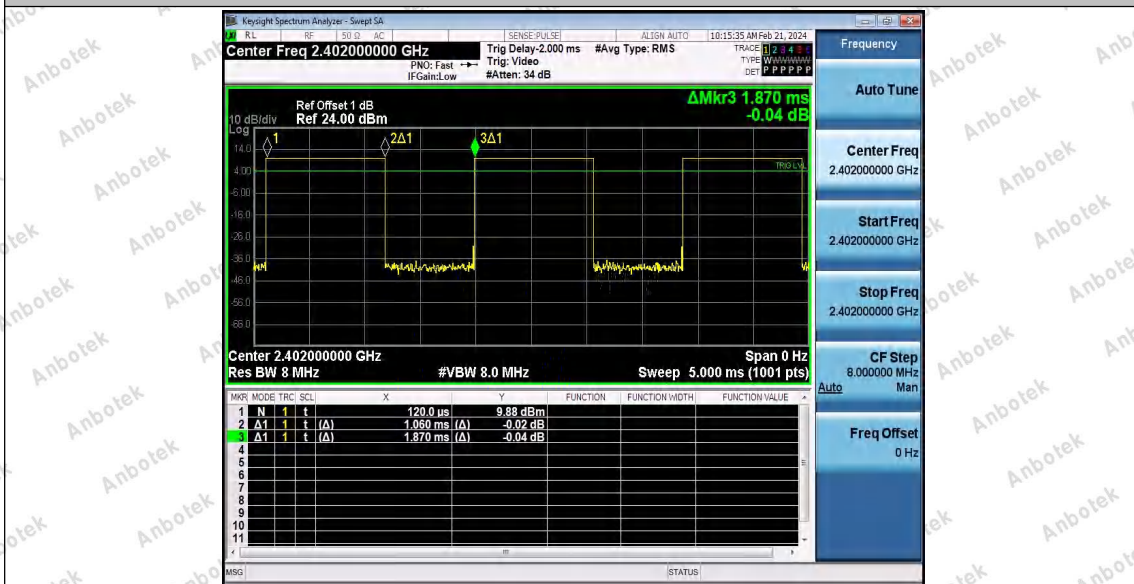


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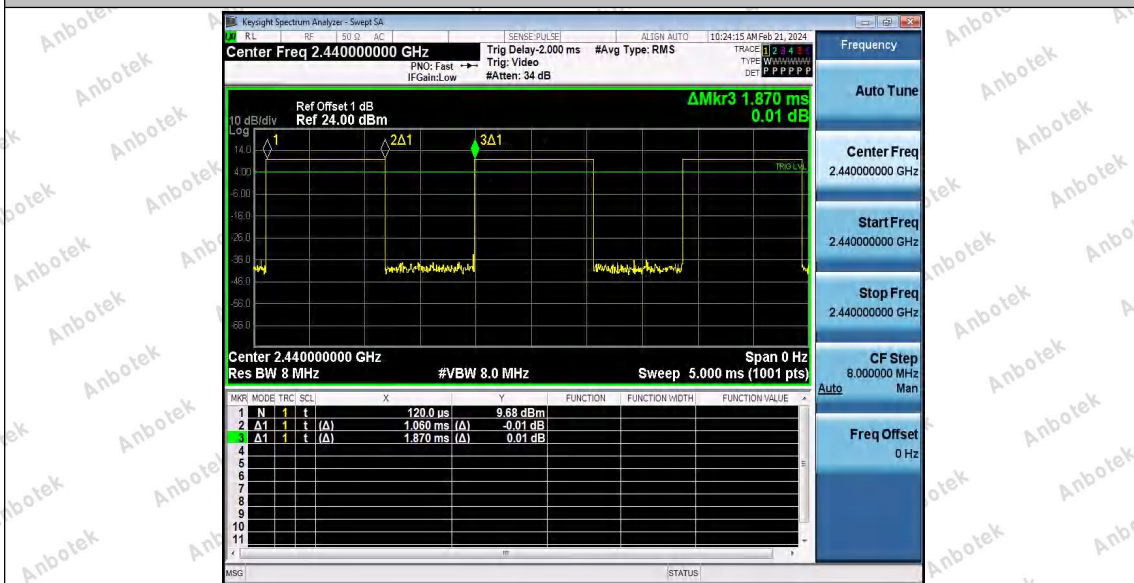




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



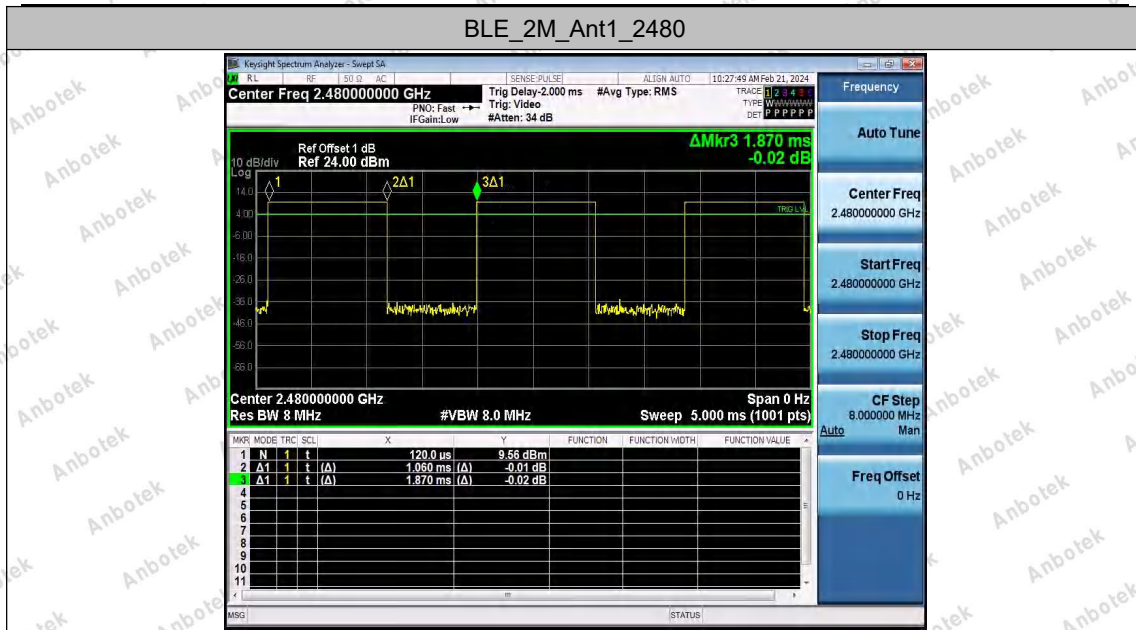
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