

Appendix Test Data

Report No.:	18220WC30270402	Test Sample No.:	1-2-2
Start Test Date:	2024.2.19	Finish Test Date:	2024.2.19
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	24°C	Relative Humidity:	46%
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	0.672	2401.684	2402.356	0.5	PASS
		2440	0.672	2439.676	2440.348	0.5	PASS
		2480	0.712	2479.660	2480.372	0.5	PASS
BLE_2M	Ant1	2402	1.312	2401.356	2402.668	0.5	PASS
		2440	1.124	2439.468	2440.592	0.5	PASS
		2480	1.148	2479.440	2480.588	0.5	PASS



Test Graphs





BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



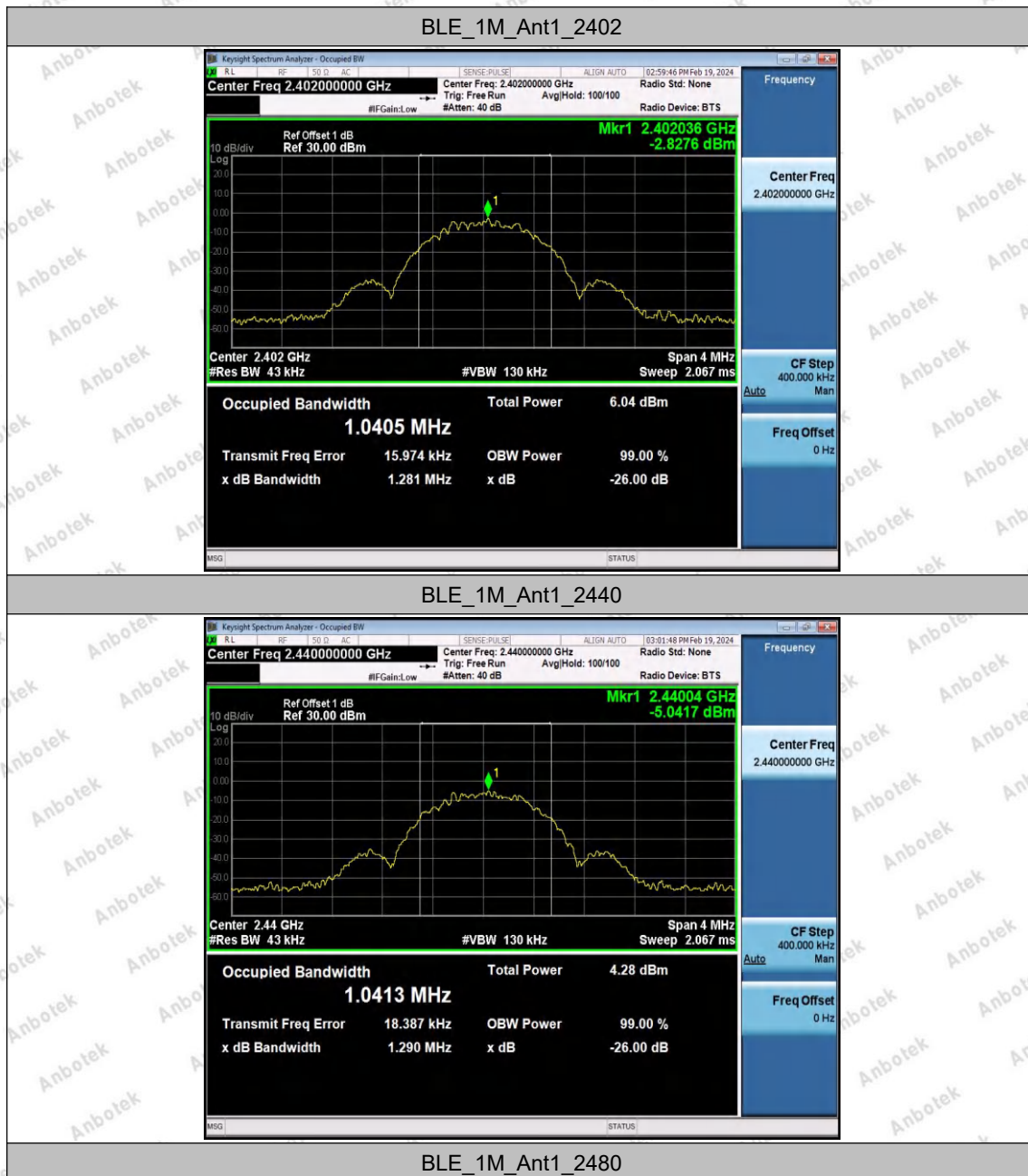
Appendix B: Occupied Channel Bandwidth

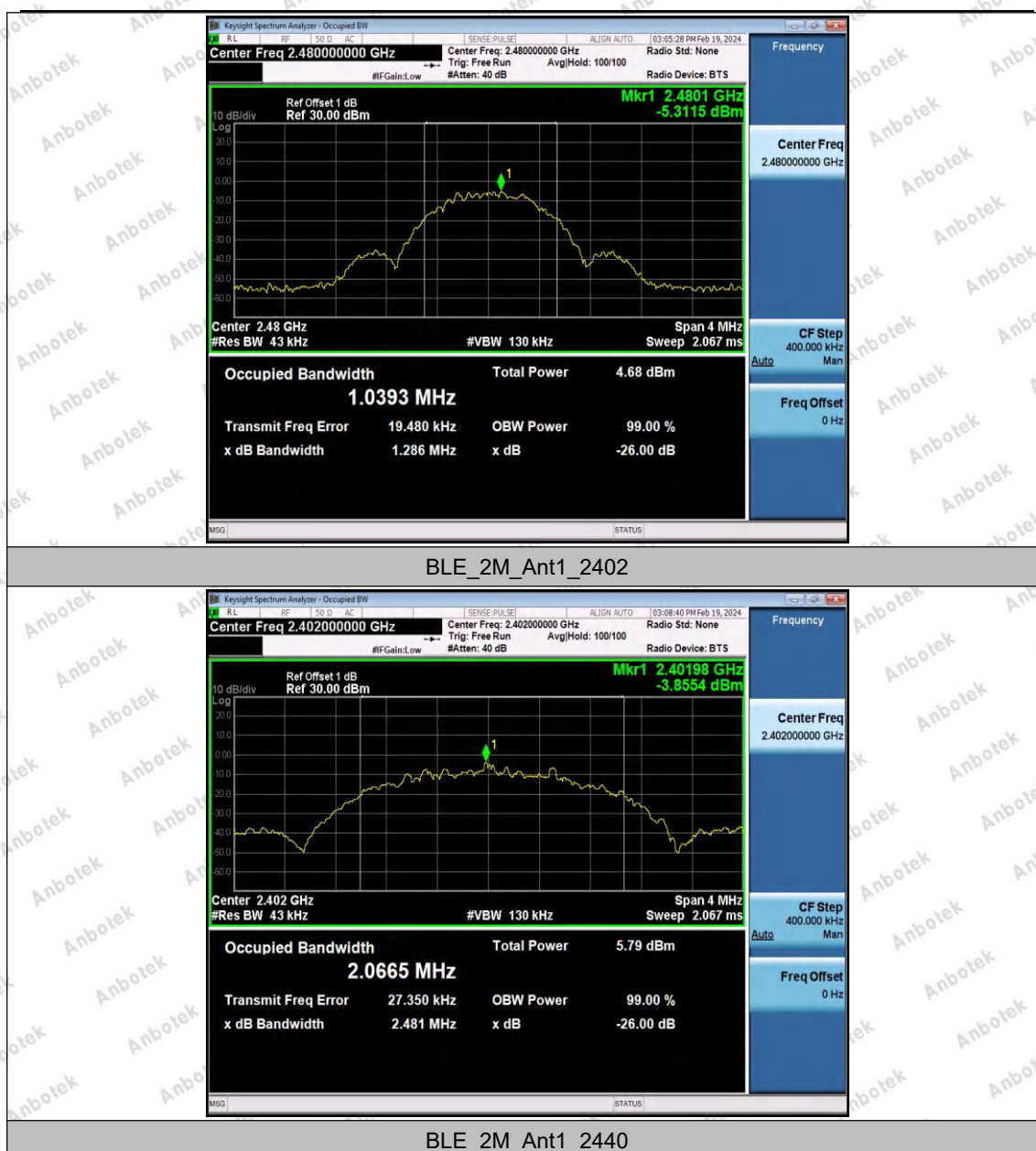
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0405	2401.4957	2402.5362
		2440	1.0413	2439.4977	2440.5390
		2480	1.0393	2479.4998	2480.5391
BLE_2M	Ant1	2402	2.0665	2400.9941	2403.0606
		2440	2.0834	2438.9892	2441.0726
		2480	2.0903	2478.9869	2481.0772



Test Graphs







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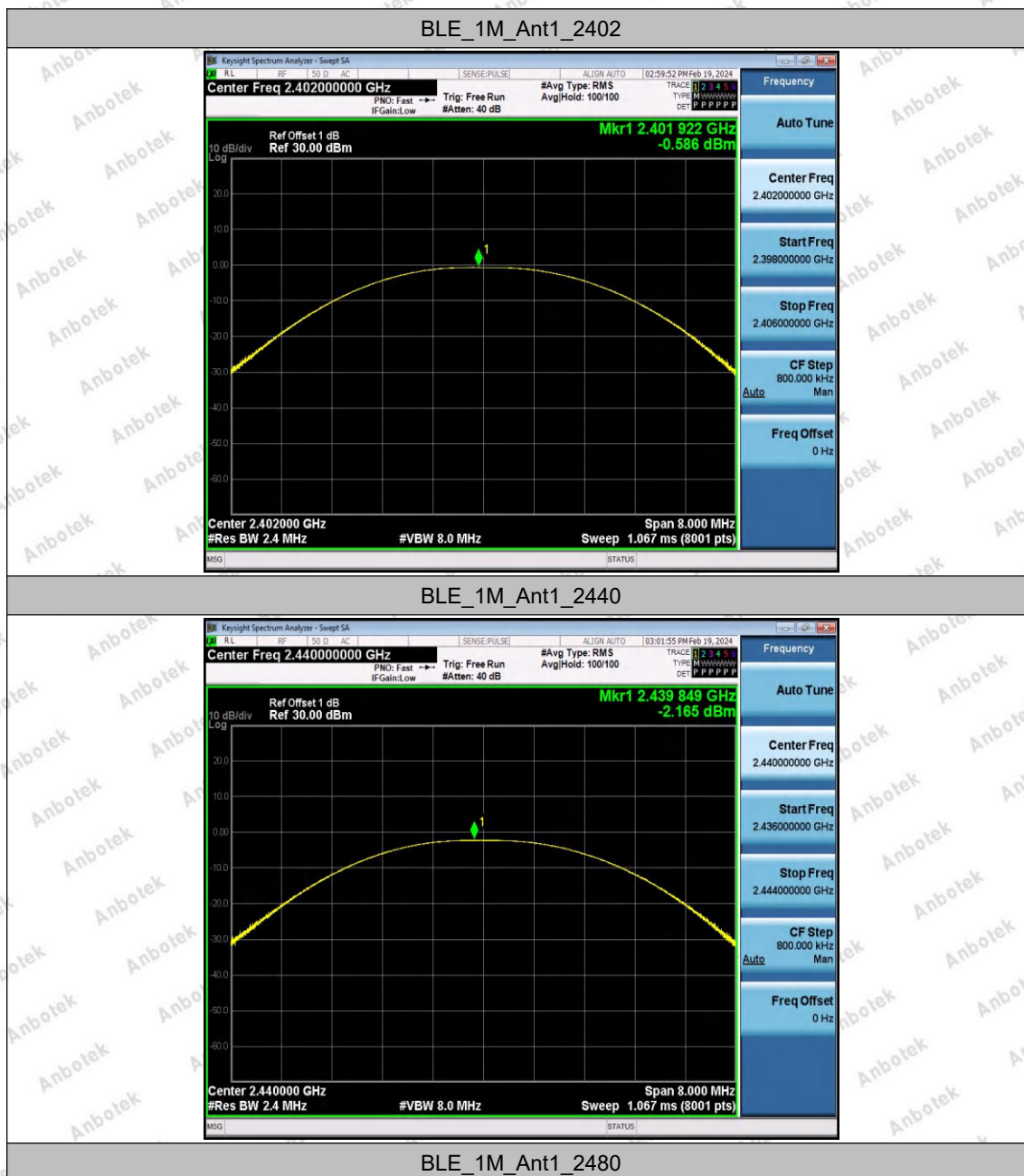
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.59	≤30	PASS
		2440	-2.17	≤30	PASS
		2480	-1.88	≤30	PASS
BLE_2M	Ant1	2402	-0.67	≤30	PASS
		2440	-2.28	≤30	PASS
		2480	-1.95	≤30	PASS



Test Graphs Peak



BLE_1M_Ant1_2480

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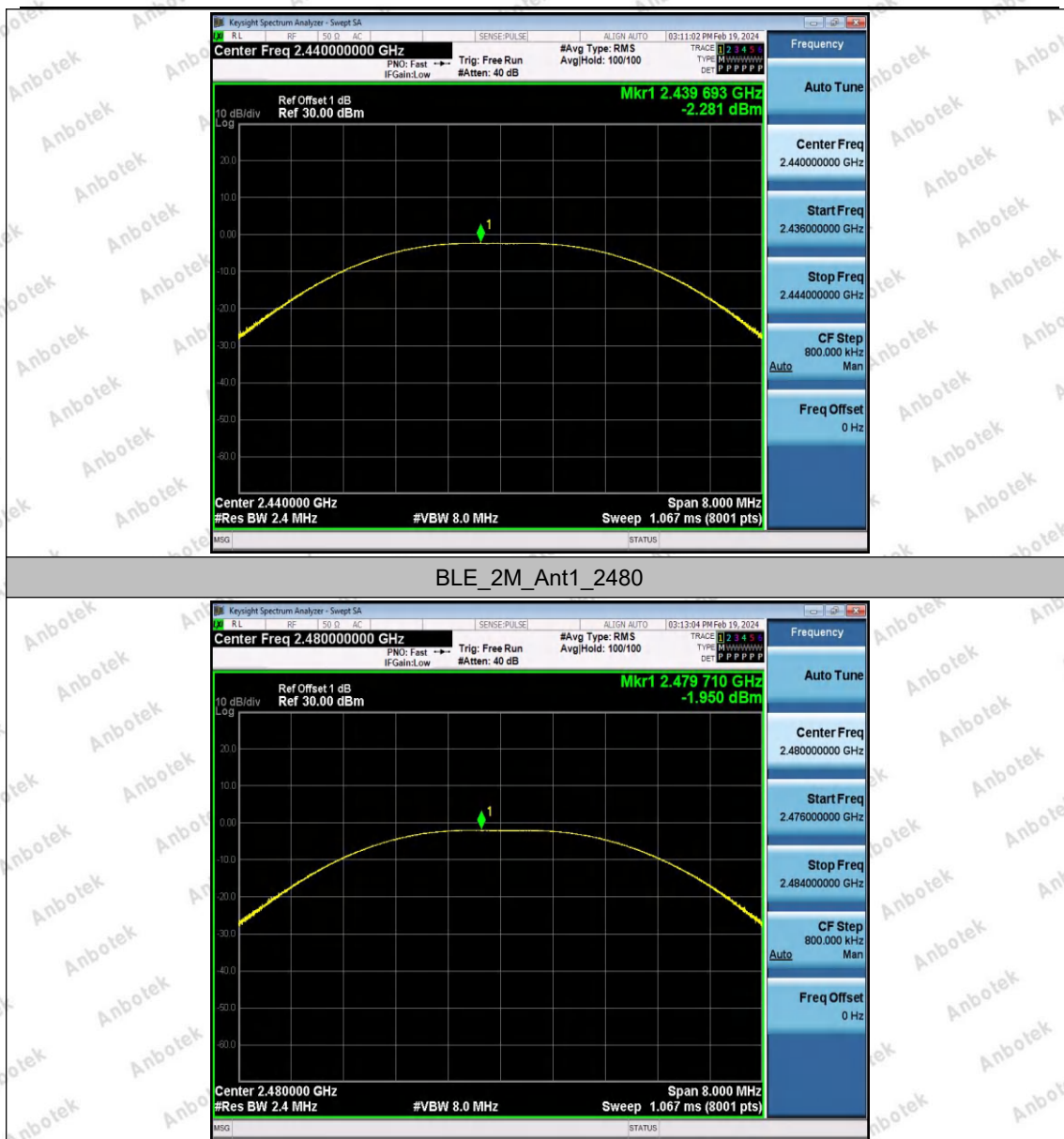
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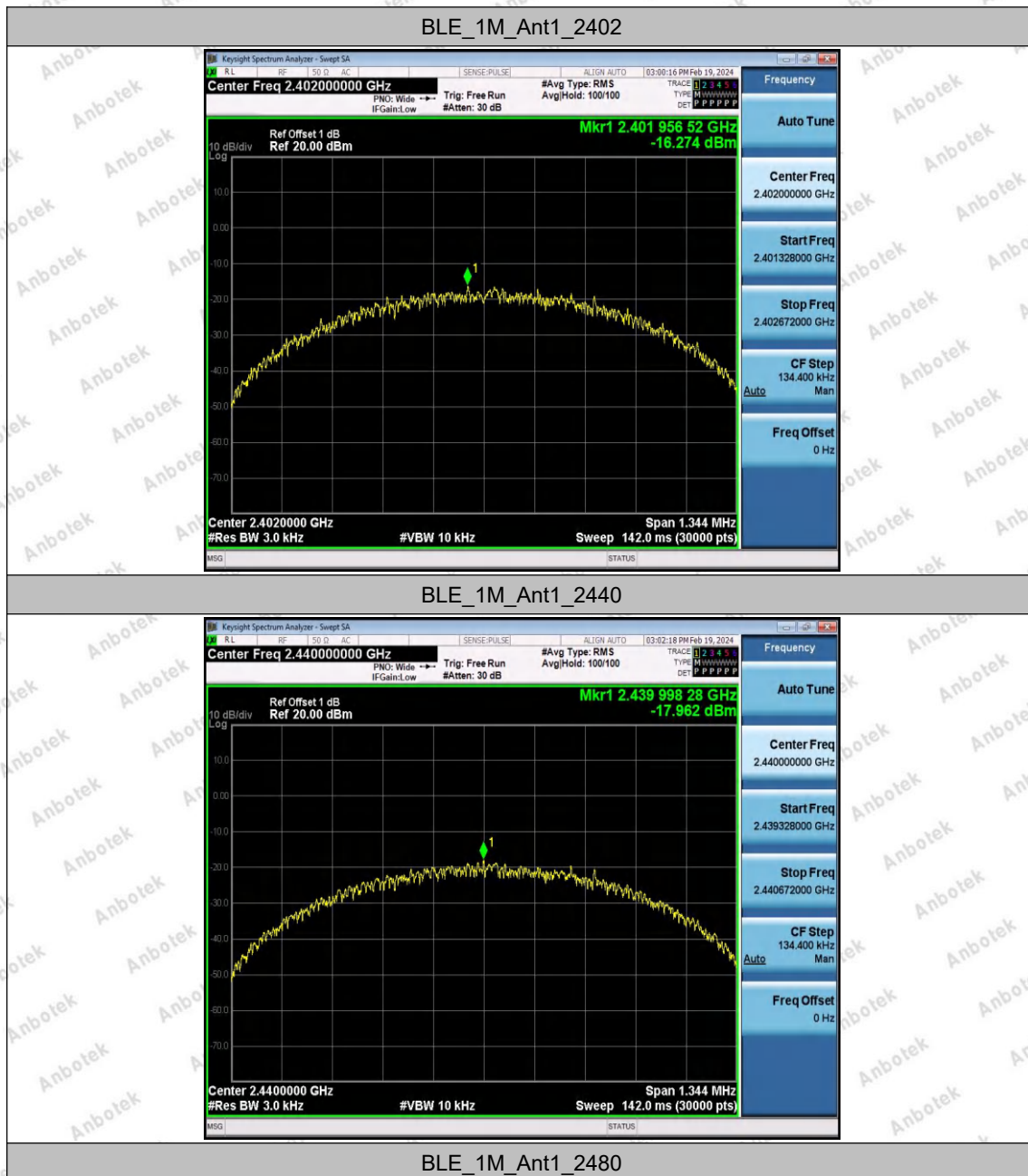
Appendix D: Maximum power spectral density

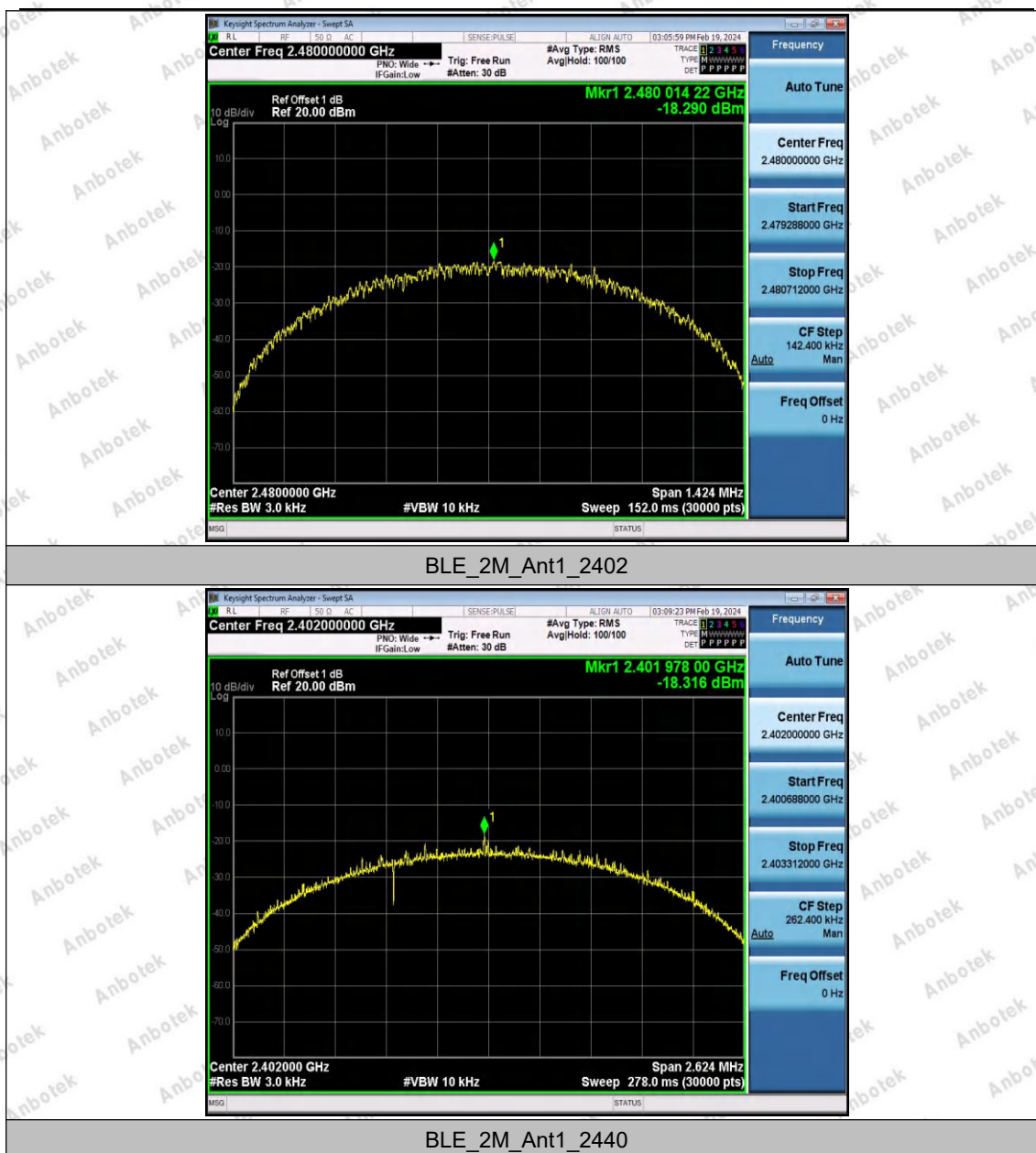
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.27	≤8.00	PASS
		2440	-17.96	≤8.00	PASS
		2480	-18.29	≤8.00	PASS
BLE_2M	Ant1	2402	-18.32	≤8.00	PASS
		2440	-20.39	≤8.00	PASS
		2480	-19.2	≤8.00	PASS



Test Graphs





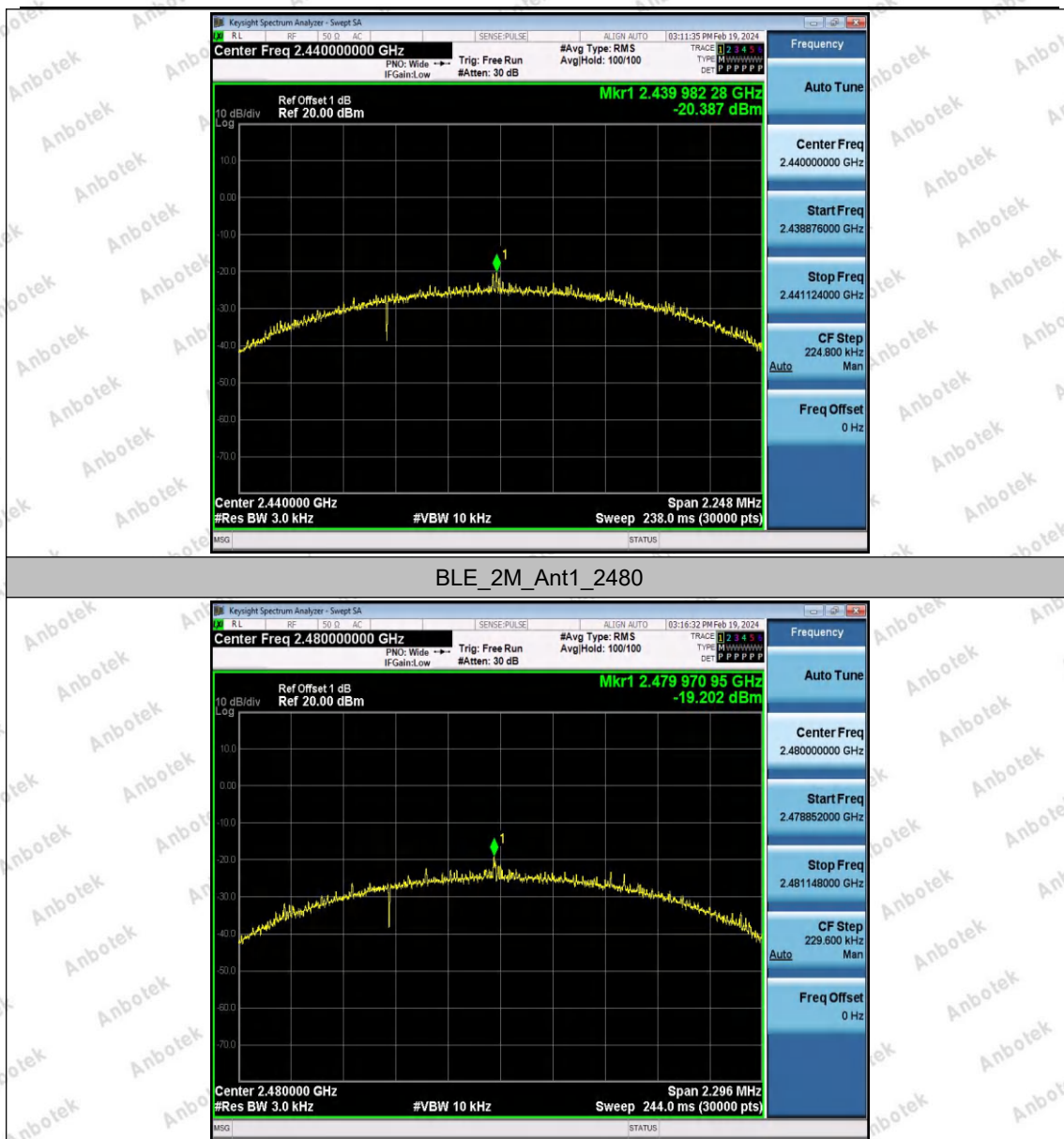
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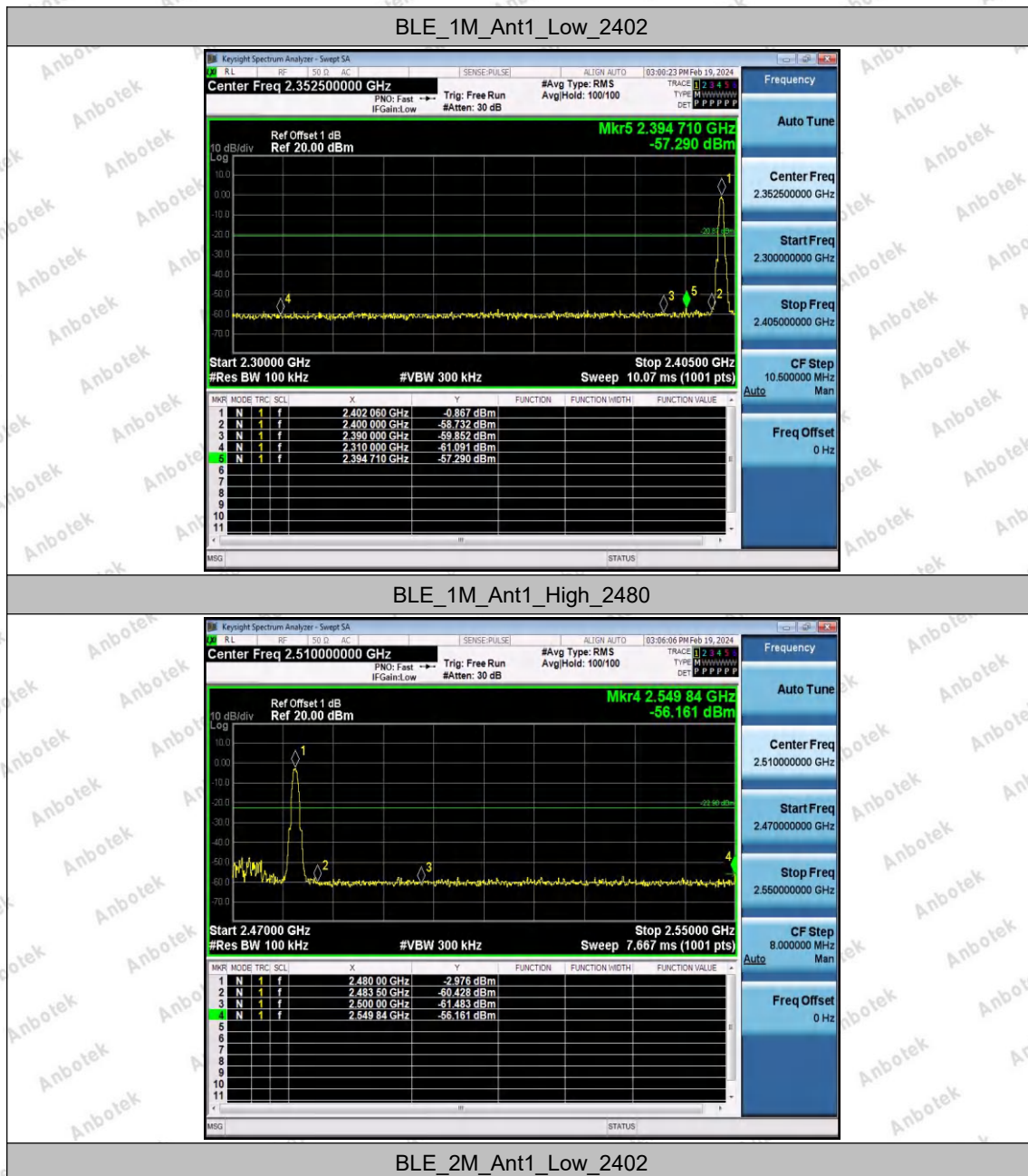
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.87	-57.29	≤-20.87	PASS
		High	2480	-2.98	-56.16	≤-22.98	PASS
BLE_2M	Ant1	Low	2402	-1.88	-36.51	≤-21.88	PASS
		High	2480	-2.73	-57.26	≤-22.73	PASS



Test Graphs



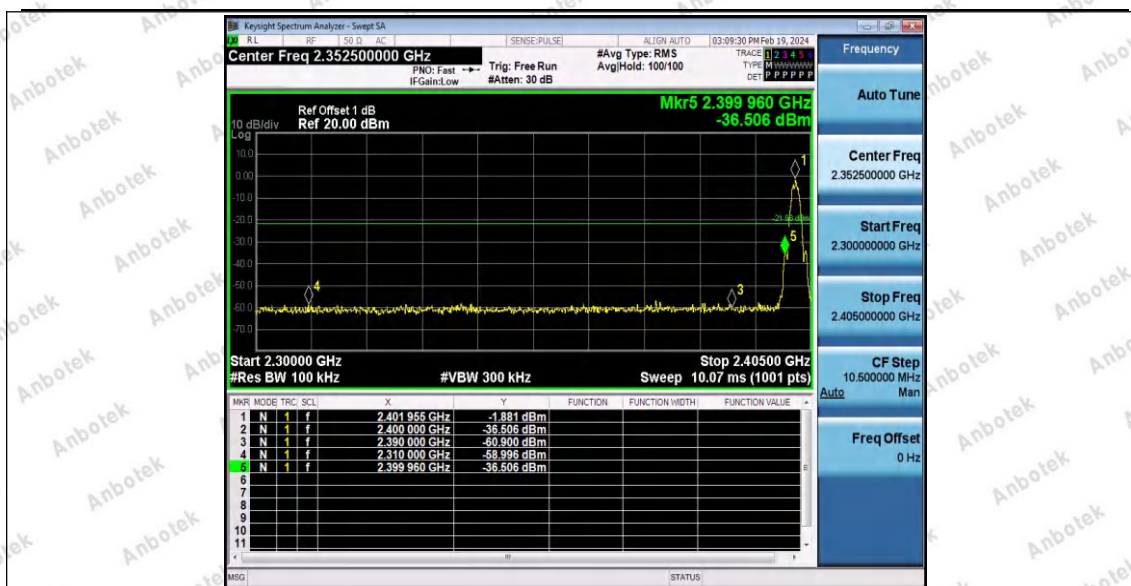
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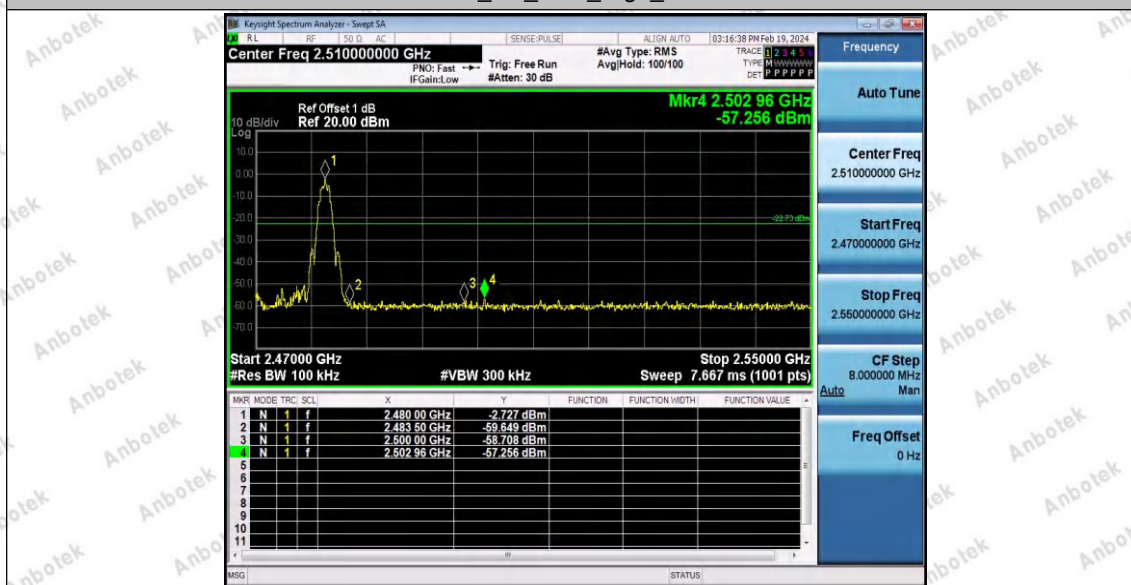


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BLE_2M_Ant1_High_2480



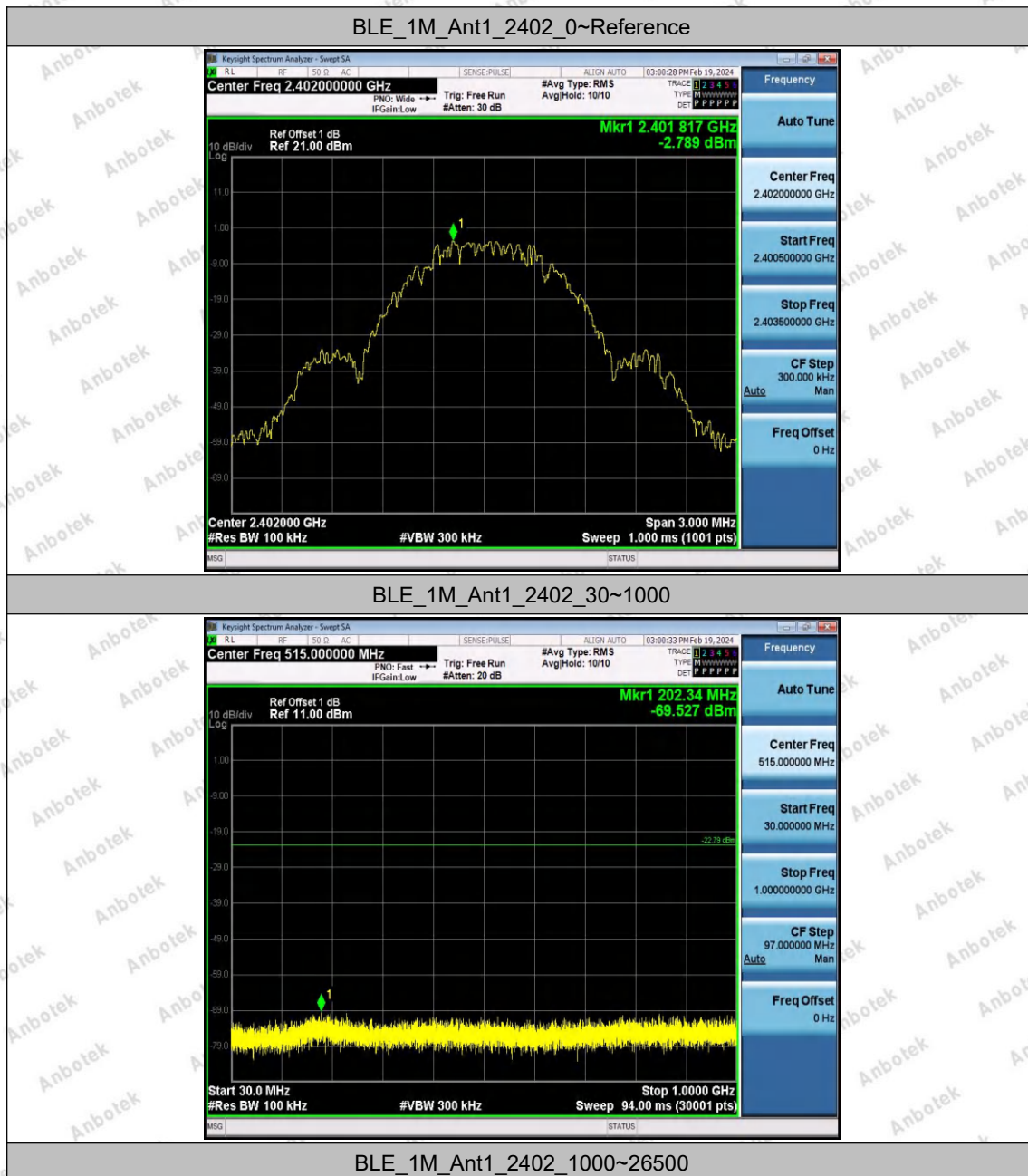
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.79	-2.79	---	PASS
			30~1000	-2.79	-69.53	≤-22.79	PASS
			1000~26500	-2.79	-53.02	≤-22.79	PASS
		2440	Reference	-4.06	-4.06	---	PASS
			30~1000	-4.06	-69.47	≤-24.06	PASS
			1000~26500	-4.06	-53.24	≤-24.06	PASS
		2480	Reference	-3.38	-3.38	---	PASS
			30~1000	-3.38	-69.68	≤-23.38	PASS
			1000~26500	-3.38	-53.68	≤-23.38	PASS
BLE_2M	Ant1	2402	Reference	-1.48	-1.48	---	PASS
			30~1000	-1.48	-69.11	≤-21.48	PASS
			1000~26500	-1.48	-53.89	≤-21.48	PASS
		2440	Reference	-5.61	-5.61	---	PASS
			30~1000	-5.61	-68.08	≤-25.61	PASS
			1000~26500	-5.61	-53.3	≤-25.61	PASS
		2480	Reference	-5.38	-5.38	---	PASS
			30~1000	-5.38	-68.8	≤-25.38	PASS
			1000~26500	-5.38	-52.69	≤-25.38	PASS



Test Graphs



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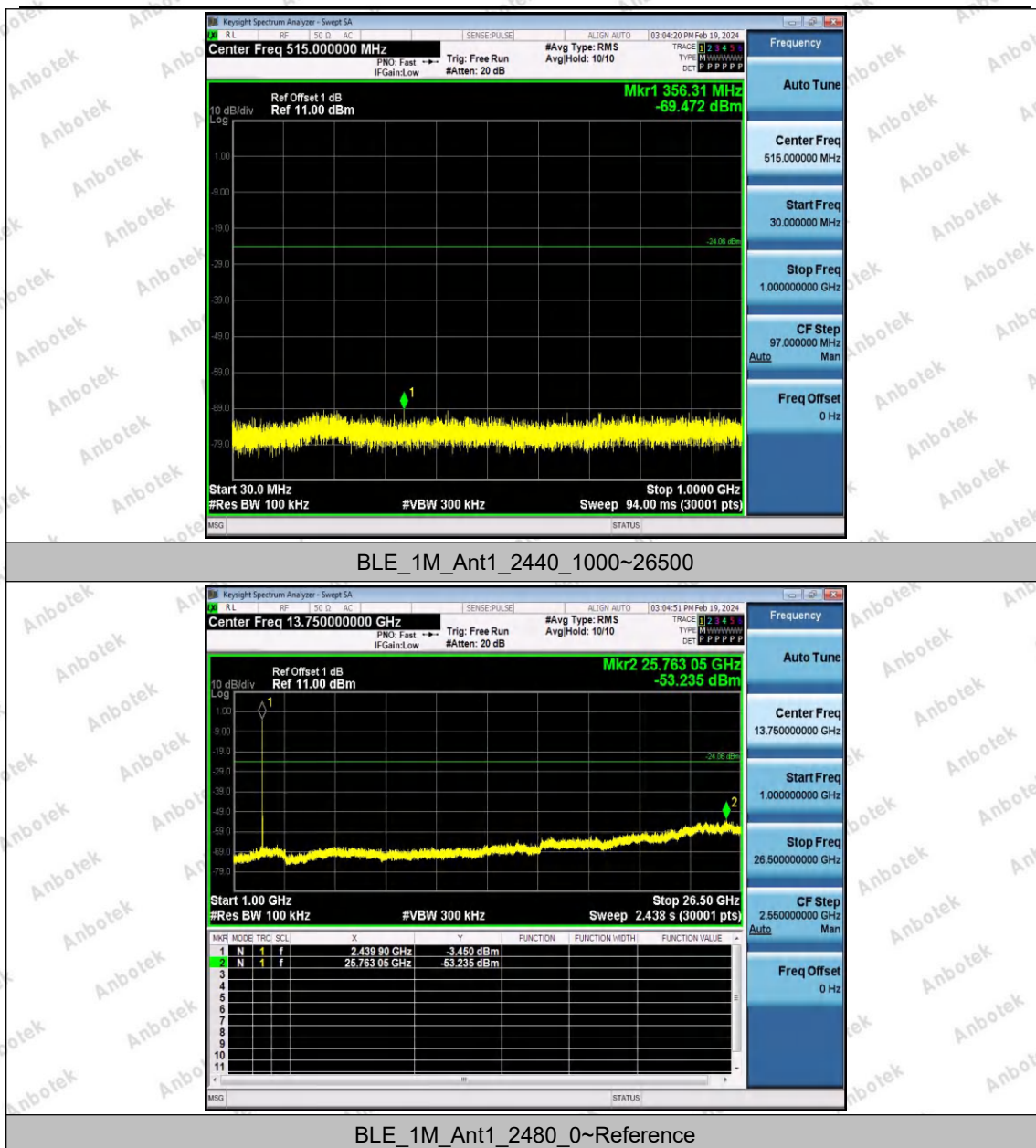


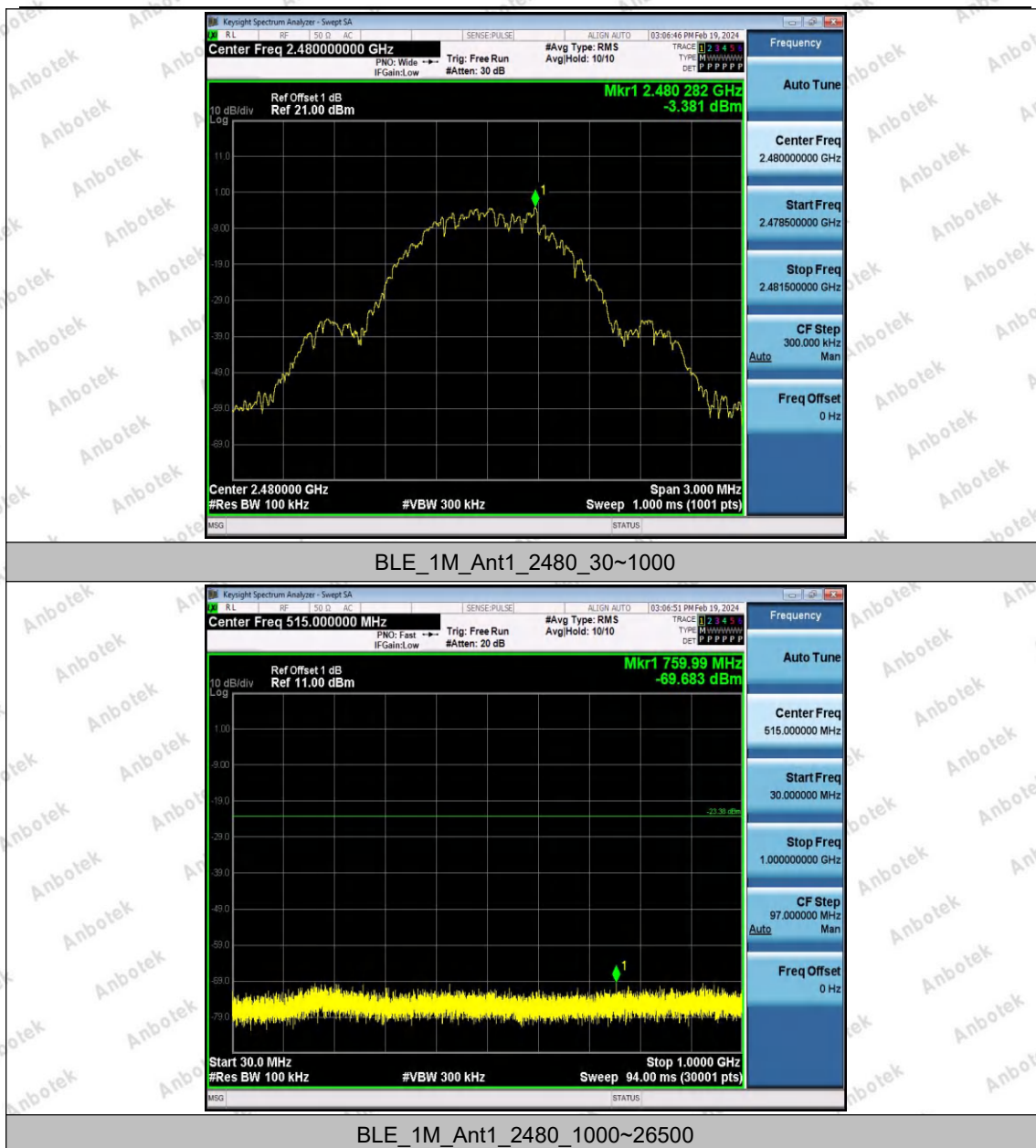
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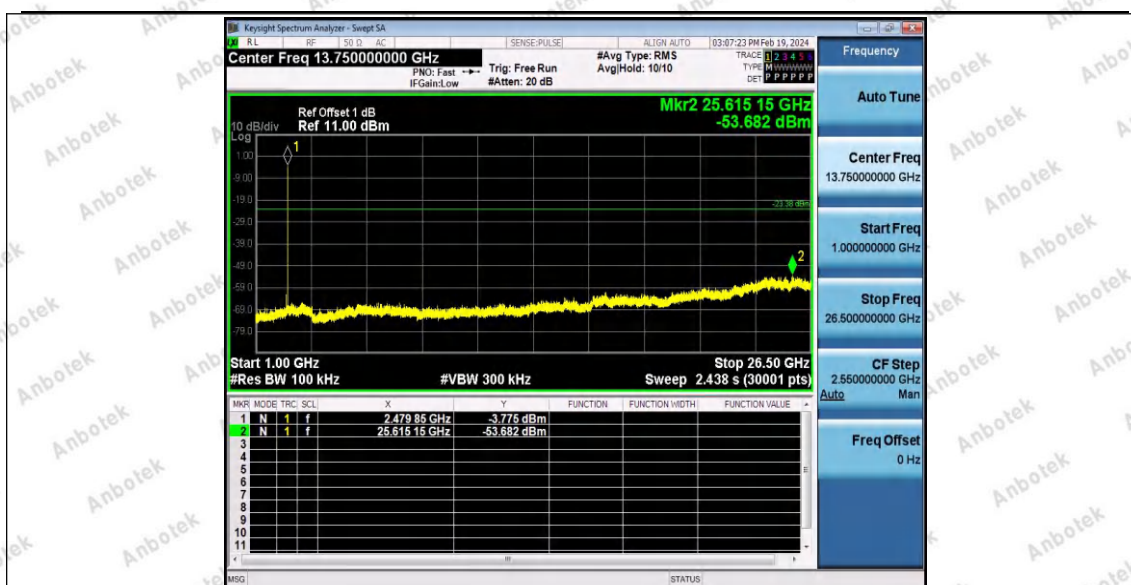


BLE_1M_Ant1_2440_30~1000







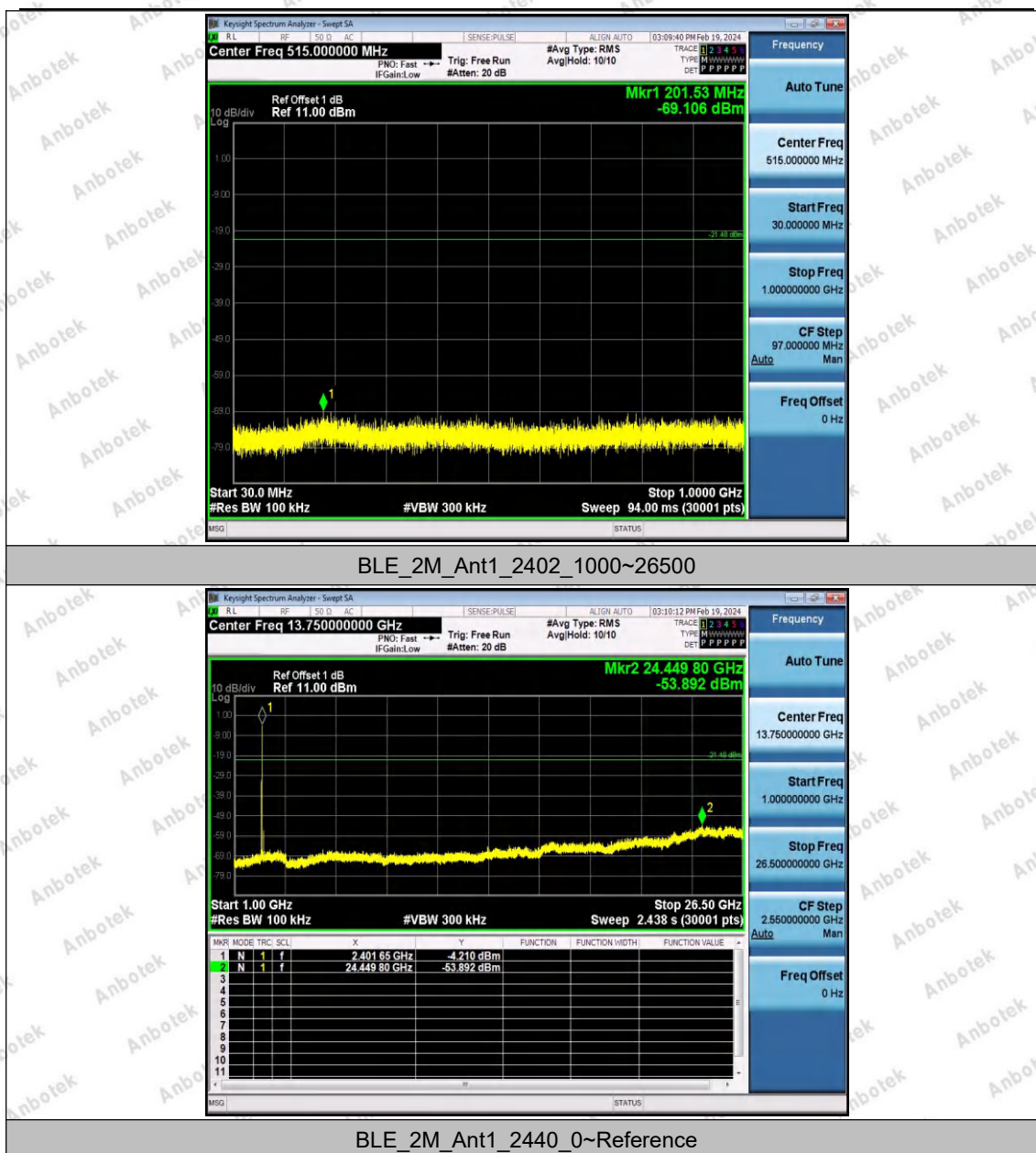


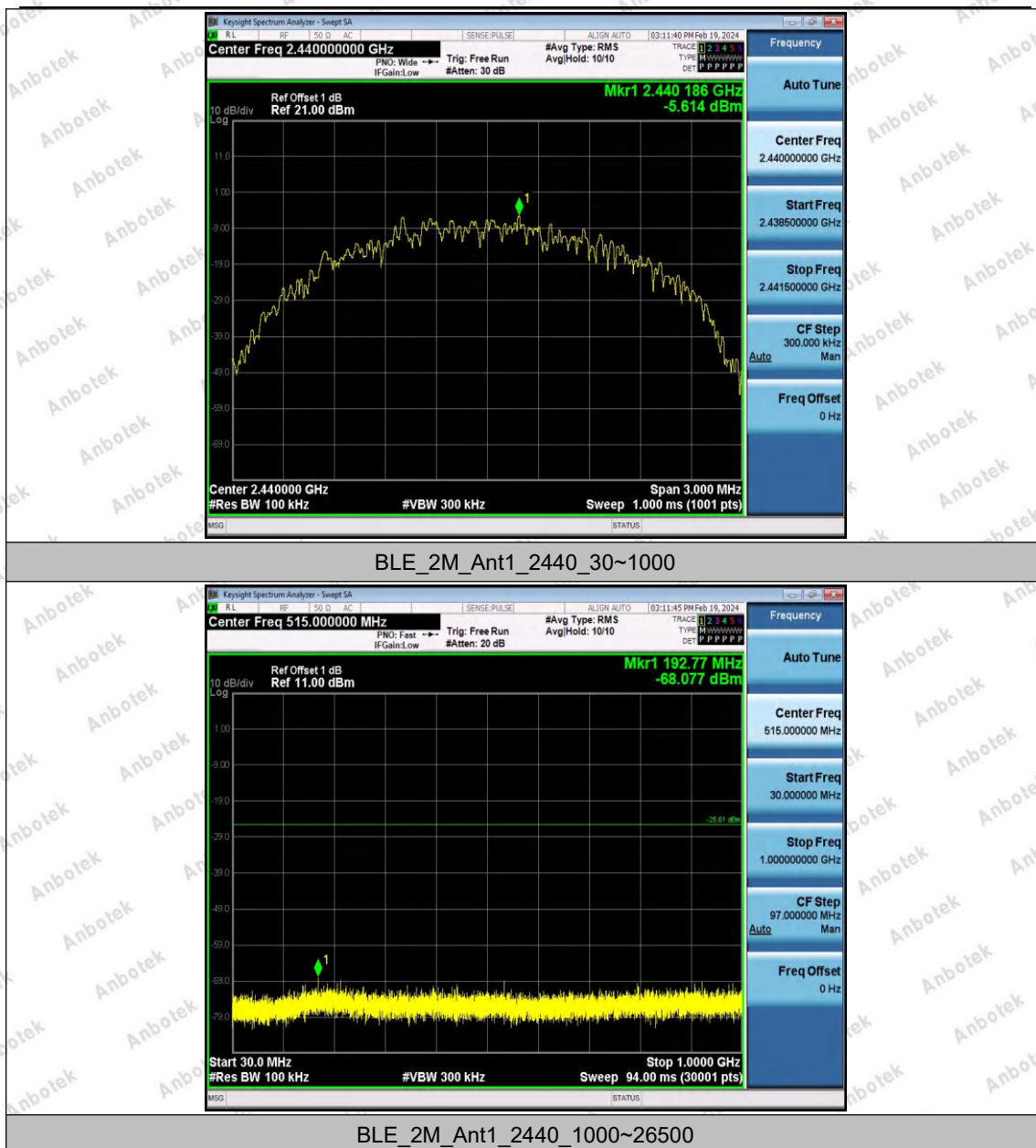
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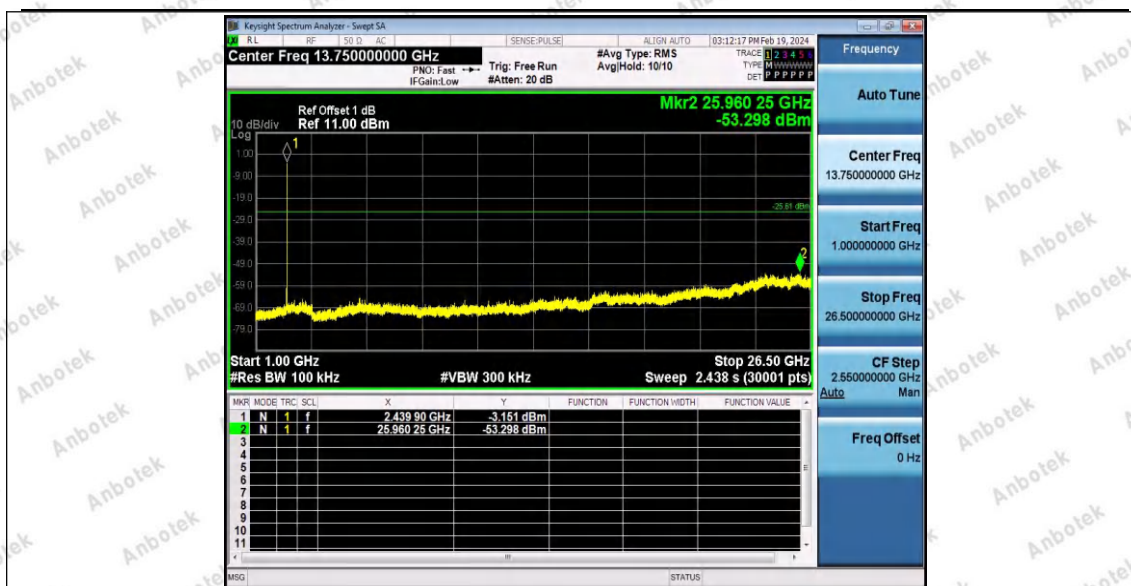


BLE_2M_Ant1_2402_30~1000







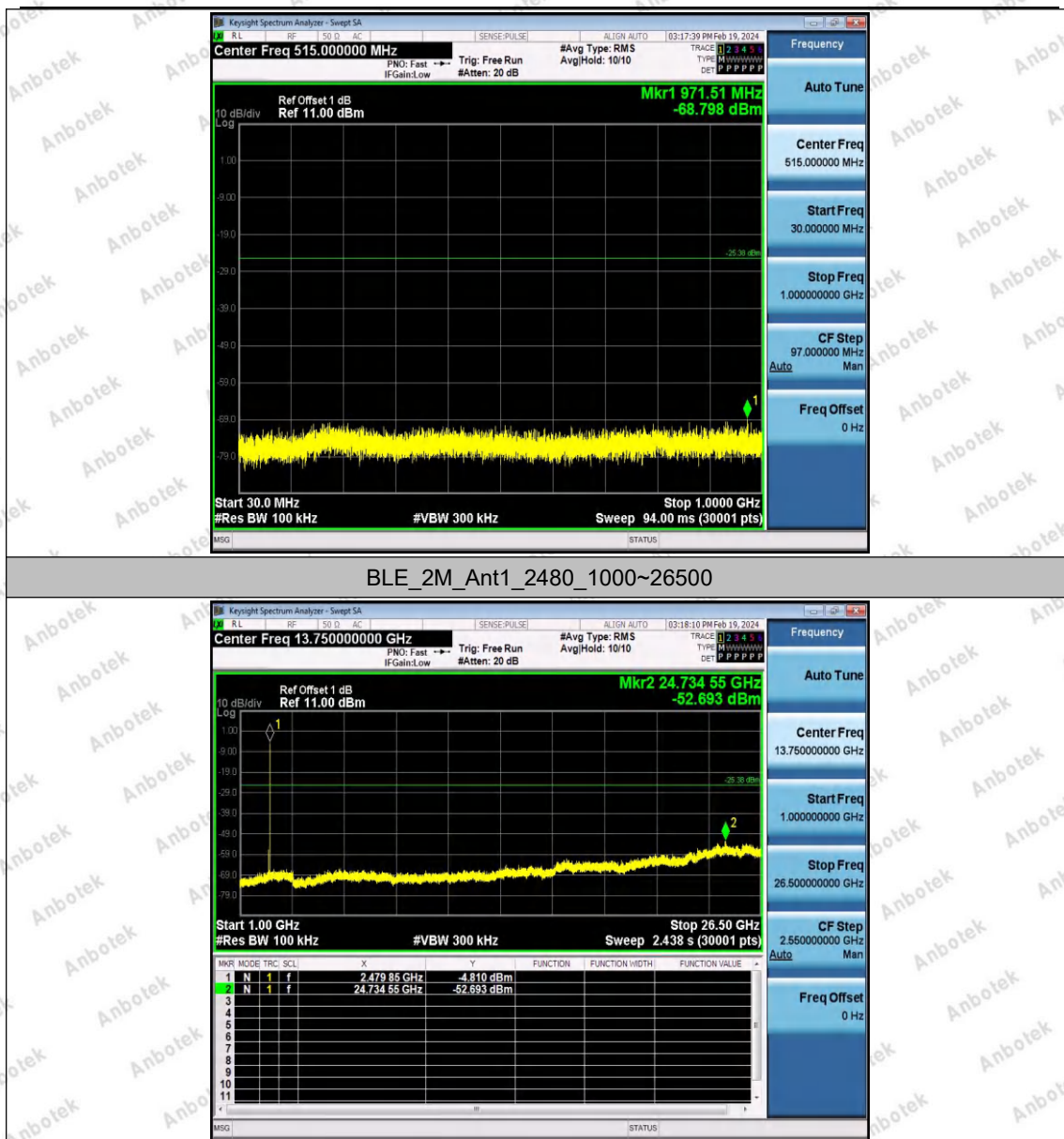


BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000





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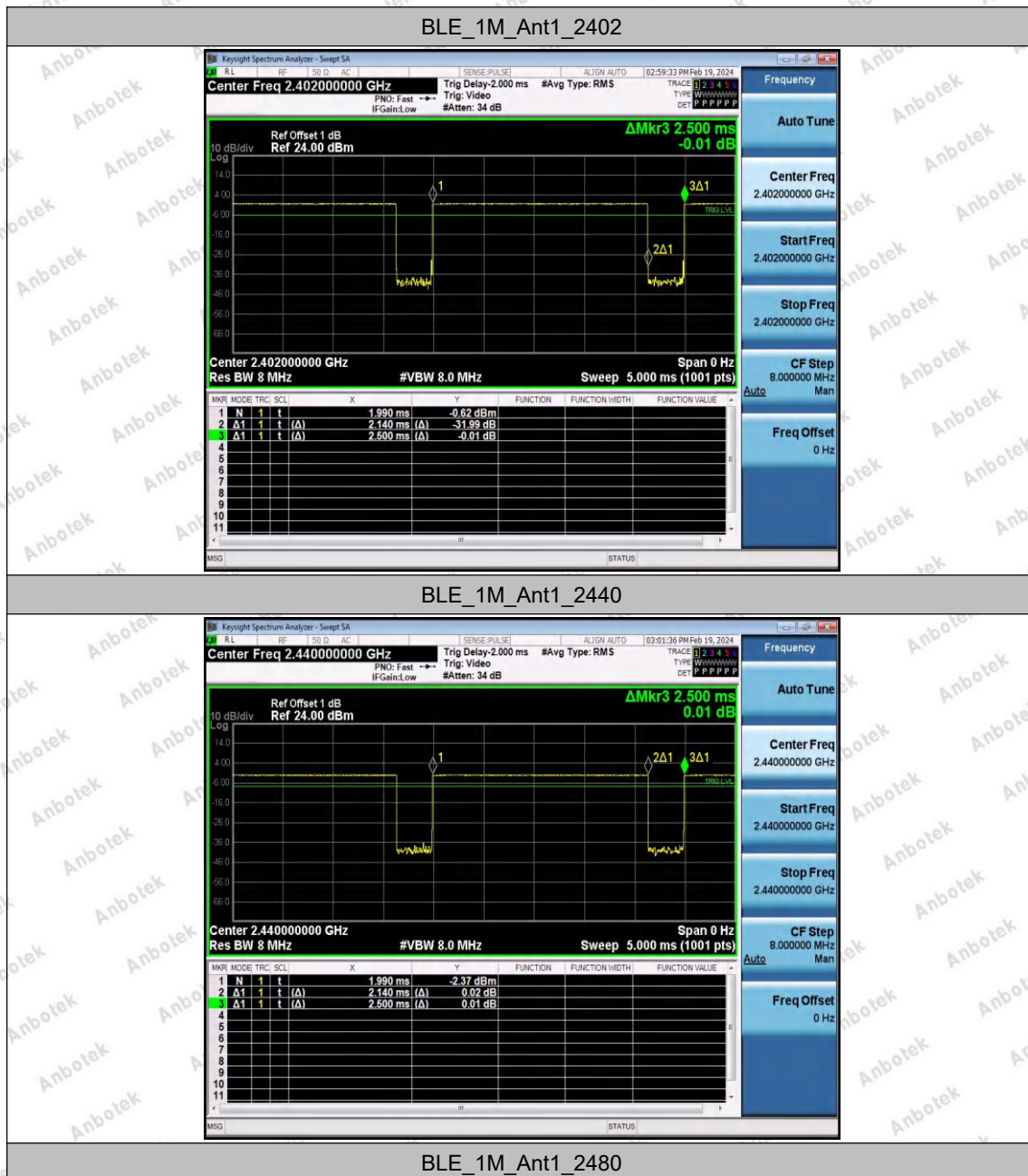
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.14	2.50	85.60	0.68
		2440	2.14	2.50	85.60	0.68
		2480	2.14	2.50	85.60	0.68
BLE_2M	Ant1	2402	1.08	1.87	57.75	2.38
		2440	1.08	1.88	57.45	2.41
		2480	1.08	1.88	57.45	2.41

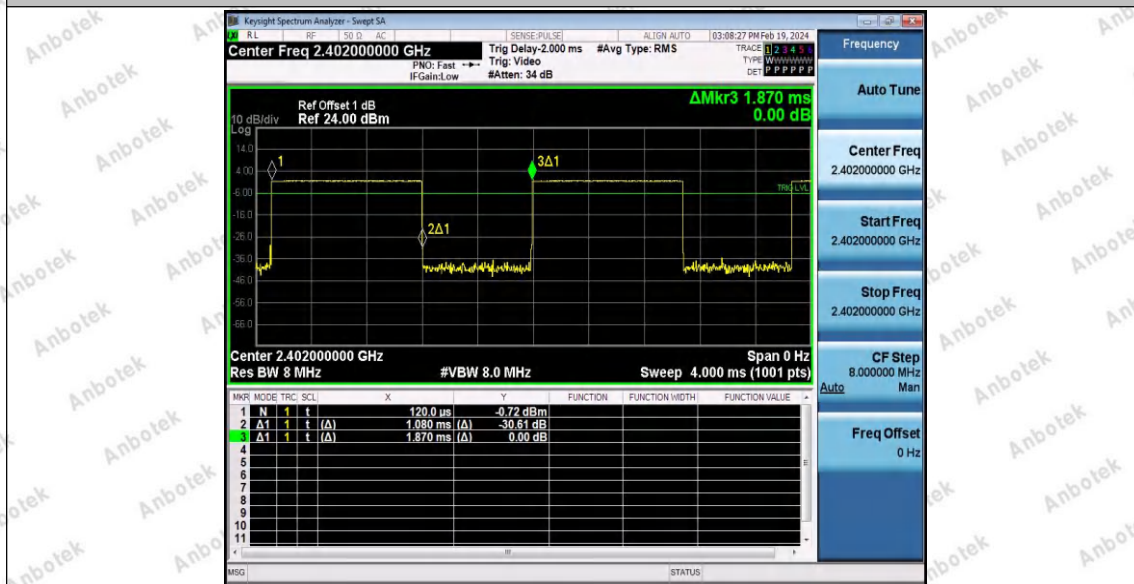


Test Graphs



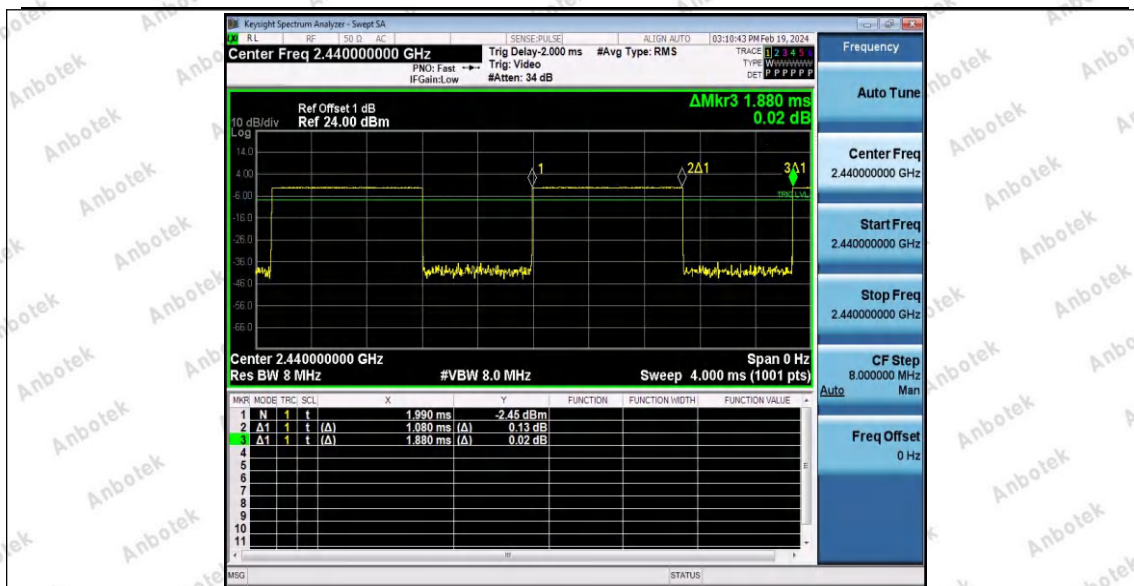


BLE_2M_Ant1_2402

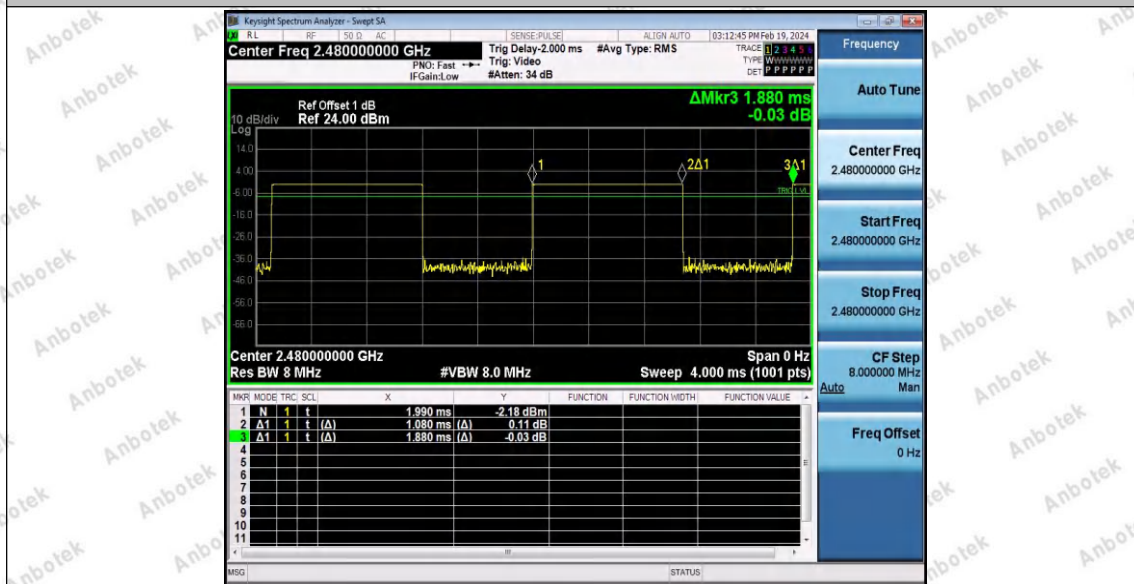


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



---End---

