

Appendix Test Data

Report No.:	18220WC30127801	Test Sample No.:	1-2-2
Start Test Date:	2023.06.26	Finish Test Date:	2023.06.27
Test Engineer:	Rick Luo	Auditor:	Edward Pan
Temperature:	24.9°C	Relative Humidity:	50%
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	0.792	2401.644	2402.436	0.5	PASS
		2440	0.764	2439.644	2440.408	0.5	PASS
		2480	0.744	2479.616	2480.360	0.5	PASS
BLE_2M	Ant1	2402	1.024	2401.484	2402.508	0.5	PASS
		2440	1.024	2439.484	2440.508	0.5	PASS
		2480	1.224	2479.400	2480.624	0.5	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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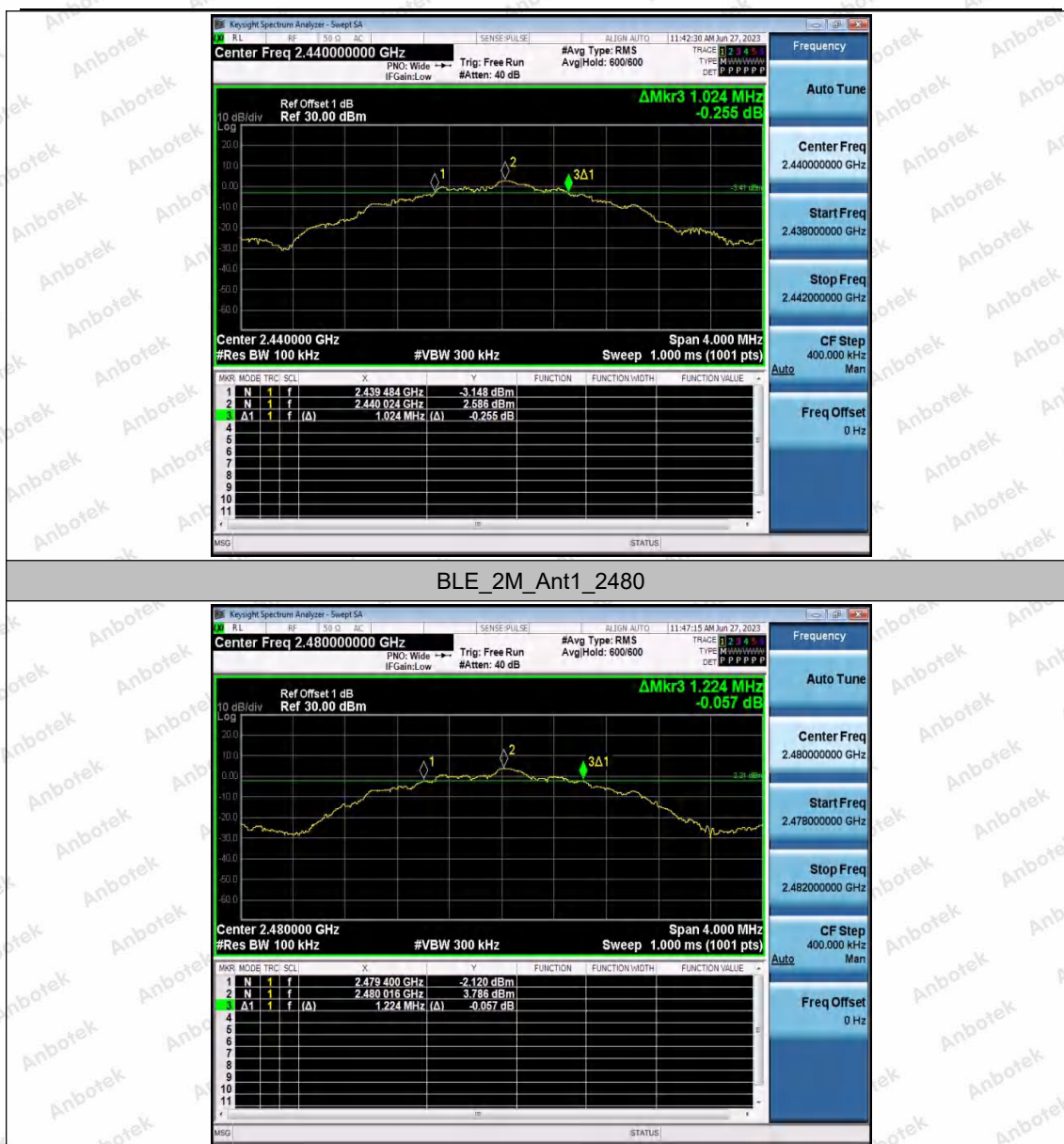


BLE_2M_Ant1_2402



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	1.8443	2401.0354	2402.8797
		2440	1.7722	2439.0874	2440.8596
		2480	1.4307	2479.2539	2480.6846
BLE_2M	Ant1	2402	2.2352	2400.8901	2403.1253
		2440	2.2544	2438.8931	2441.1475
		2480	2.2789	2478.8738	2481.1527



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





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	2.15	≤30	PASS
		2440	3.04	≤30	PASS
		2480	4.21	≤30	PASS
BLE_2M	Ant1	2402	2.18	≤30	PASS
		2440	3.02	≤30	PASS
		2480	4.19	≤30	PASS

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Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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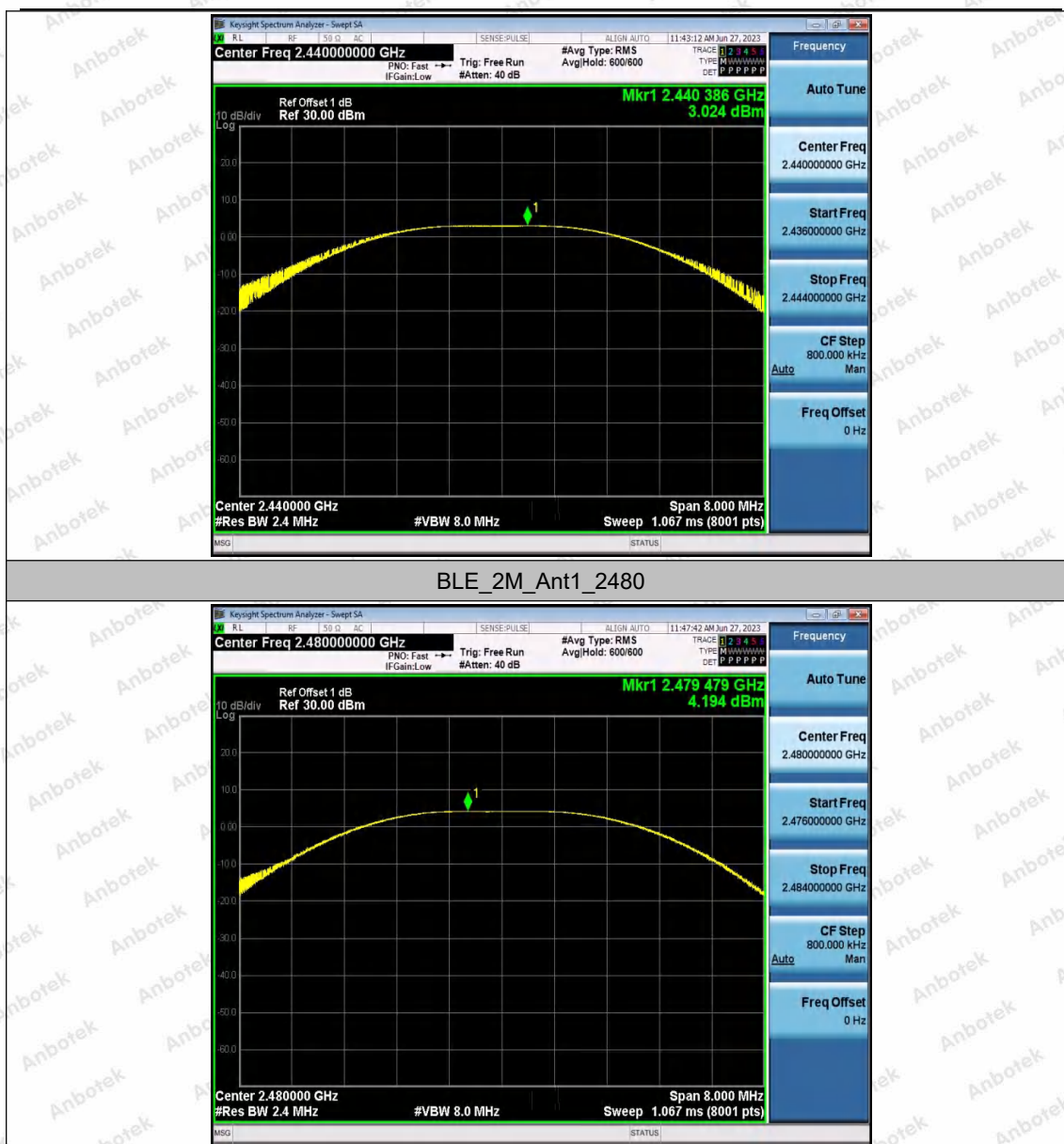


BLE_2M_Ant1_2402



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	-12.23	≤8.00	PASS
		2440	-11.22	≤8.00	PASS
		2480	-10.36	≤8.00	PASS
BLE_2M	Ant1	2402	-13.70	≤8.00	PASS
		2440	-12.49	≤8.00	PASS
		2480	-11.66	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

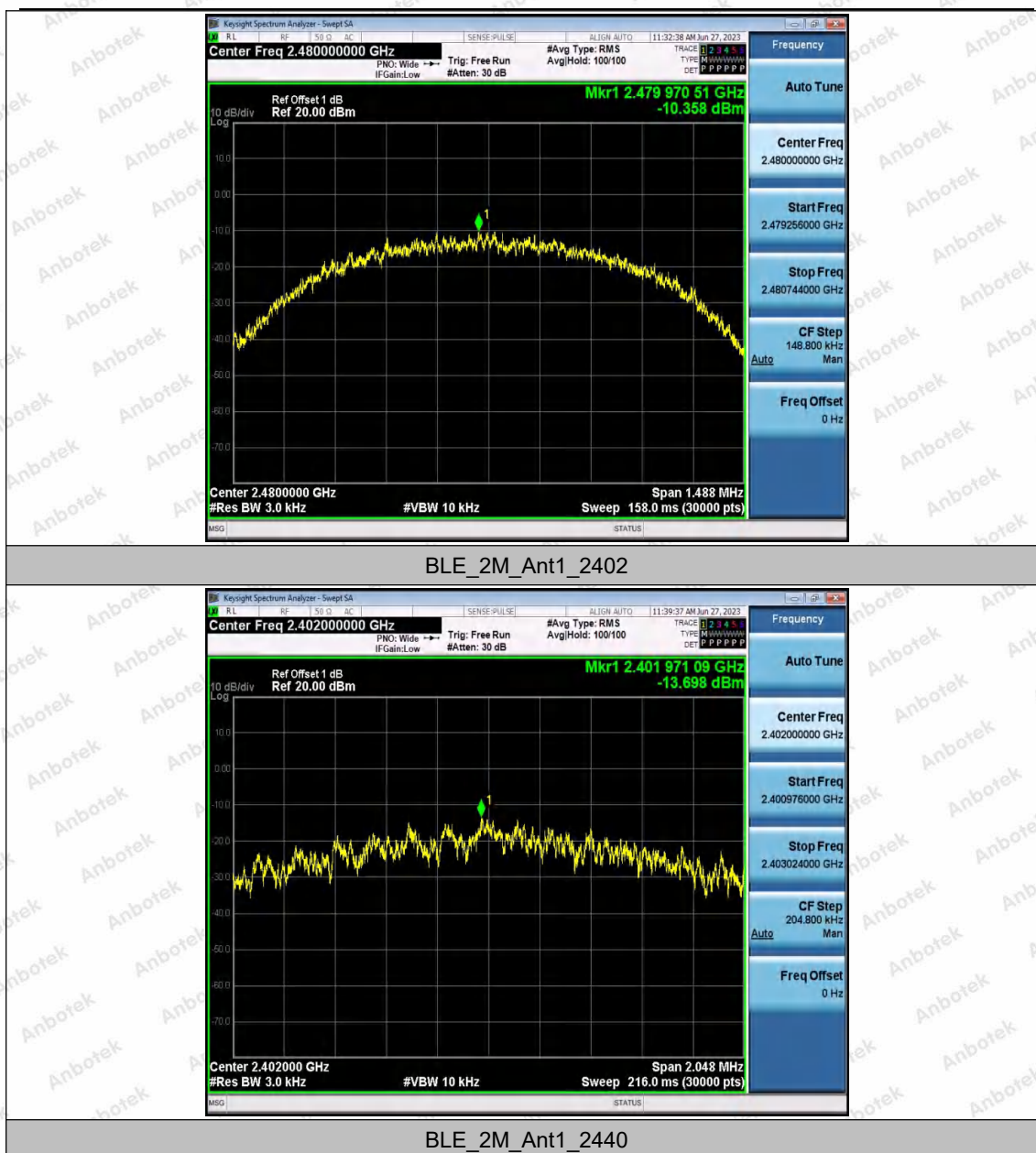
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Appendix E: Band edge measurements

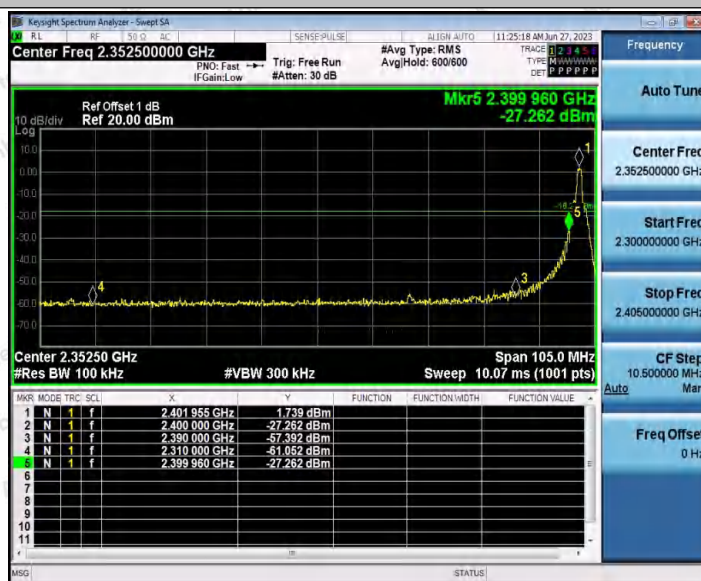
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.74	-27.26	≤-18.26	PASS
		High	2480	3.72	-46.25	≤-16.28	PASS
BLE_2M	Ant1	Low	2402	1.65	-26.39	≤-18.35	PASS
		High	2480	3.59	-45.29	≤-16.41	PASS

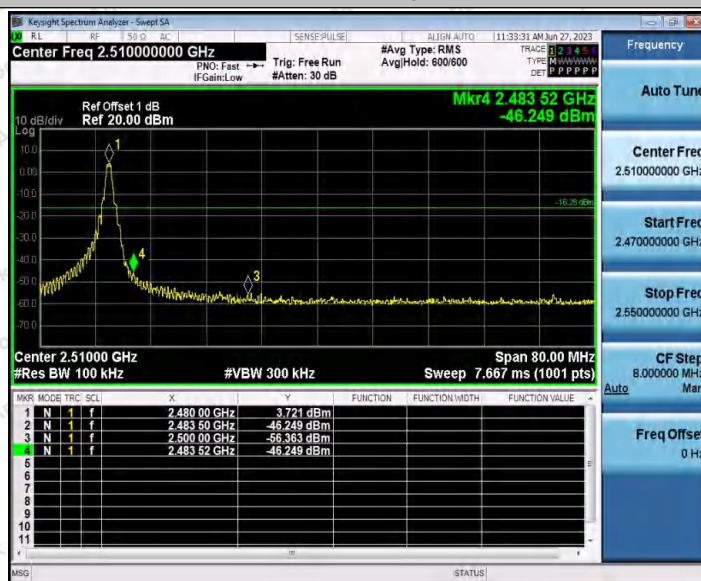


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402

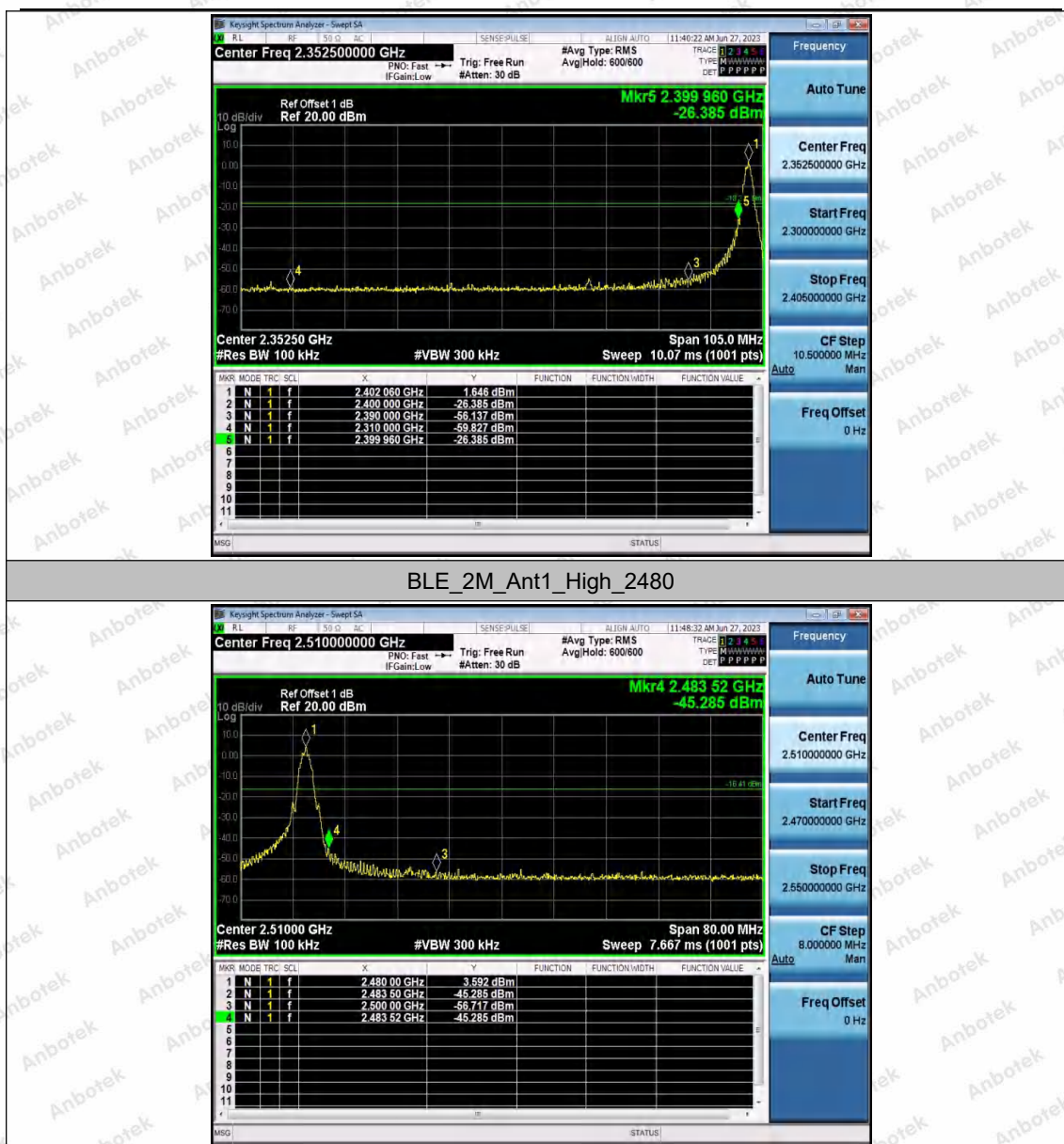
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	1.76	1.76	---	PASS
			30~1000	1.76	-66.39	≤-18.24	PASS
			1000~26500	1.76	-23.64	≤-18.24	PASS
		2440	Reference	2.66	2.66	---	PASS
			30~1000	2.66	-66.83	≤-17.34	PASS
			1000~26500	2.66	-20.58	≤-17.34	PASS
		2480	Reference	3.90	3.90	---	PASS
			30~1000	3.90	-68.24	≤-16.1	PASS
			1000~26500	3.90	-19.62	≤-16.1	PASS
BLE_2M	Ant1	2402	Reference	1.77	1.77	---	PASS
			30~1000	1.77	-68.17	≤-18.23	PASS
			1000~26500	1.77	-25.15	≤-18.23	PASS
		2440	Reference	2.57	2.57	---	PASS
			30~1000	2.57	-68.65	≤-17.43	PASS
			1000~26500	2.57	-24.12	≤-17.43	PASS
		2480	Reference	3.86	3.86	---	PASS
			30~1000	3.86	-68.05	≤-16.14	PASS
			1000~26500	3.86	-24.95	≤-16.14	PASS



Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

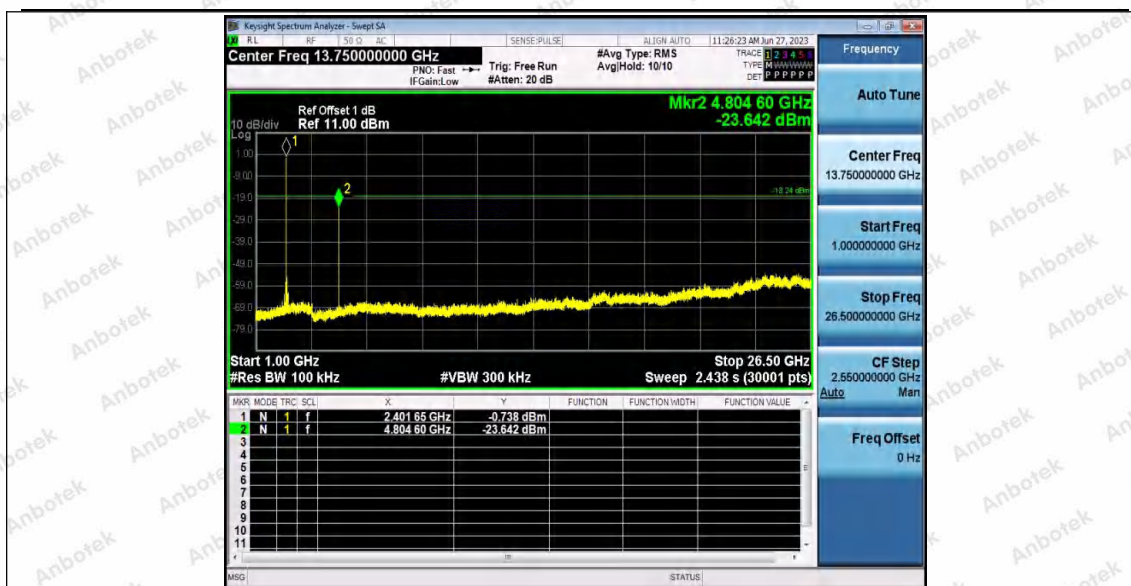
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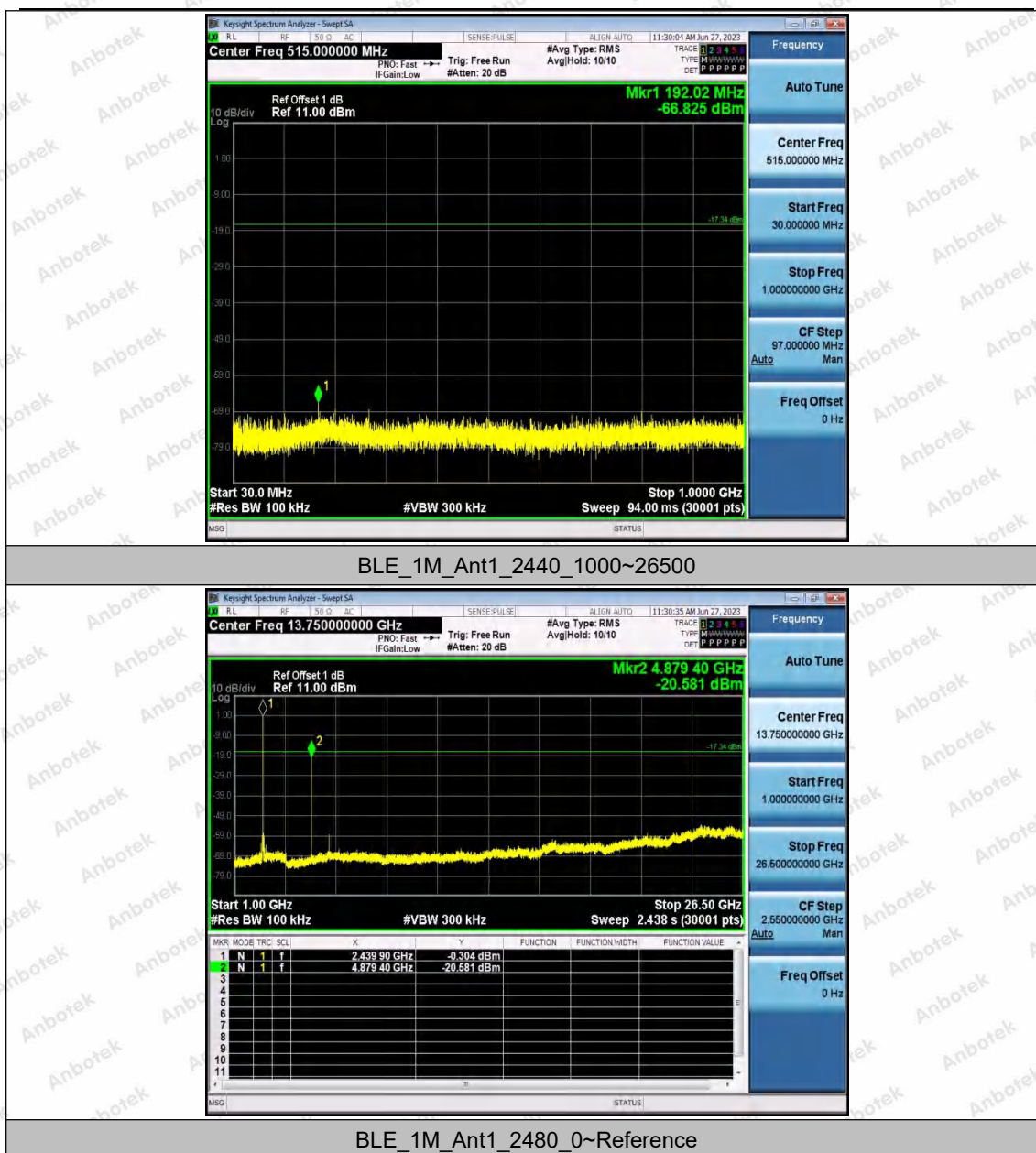


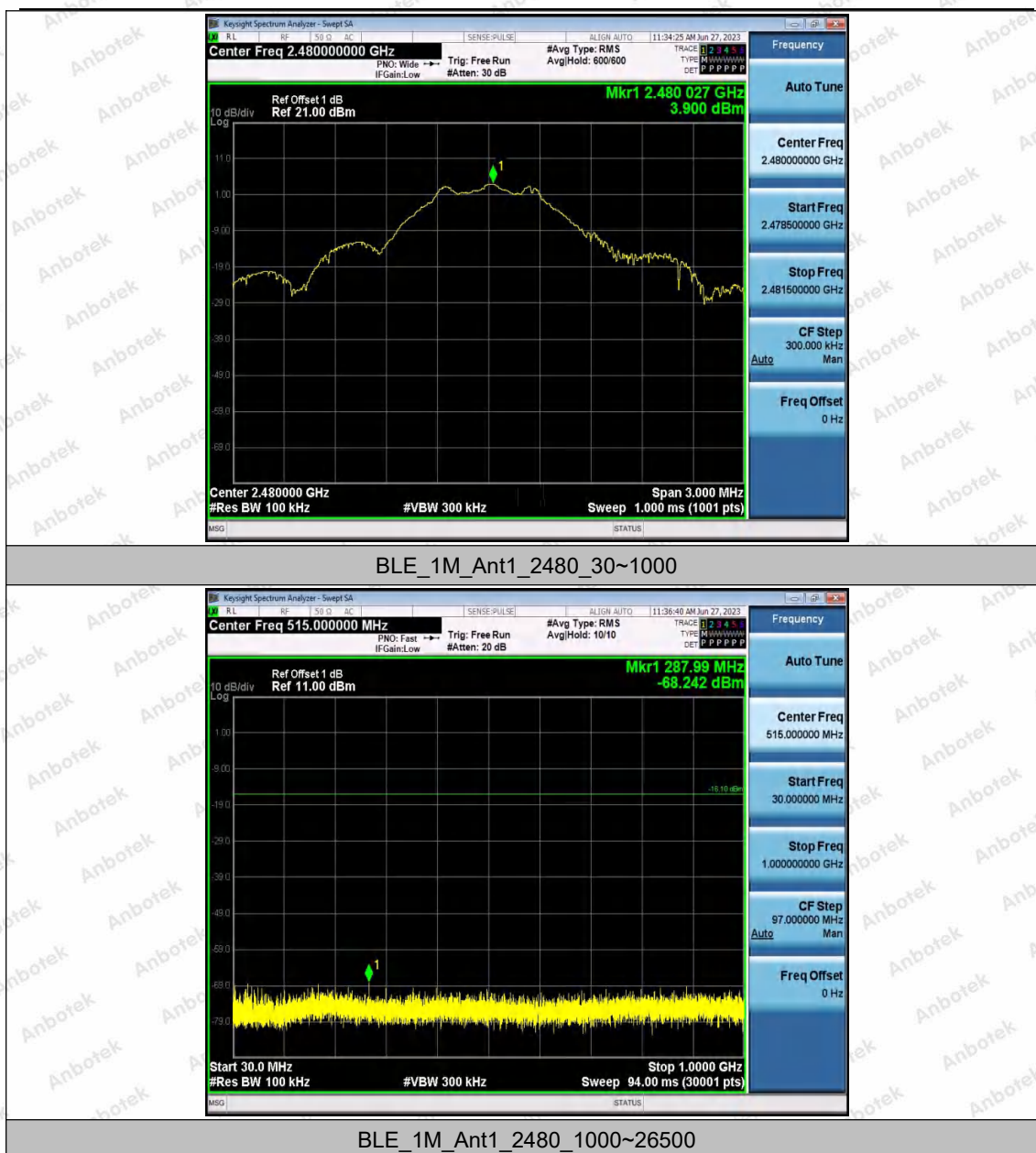
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000





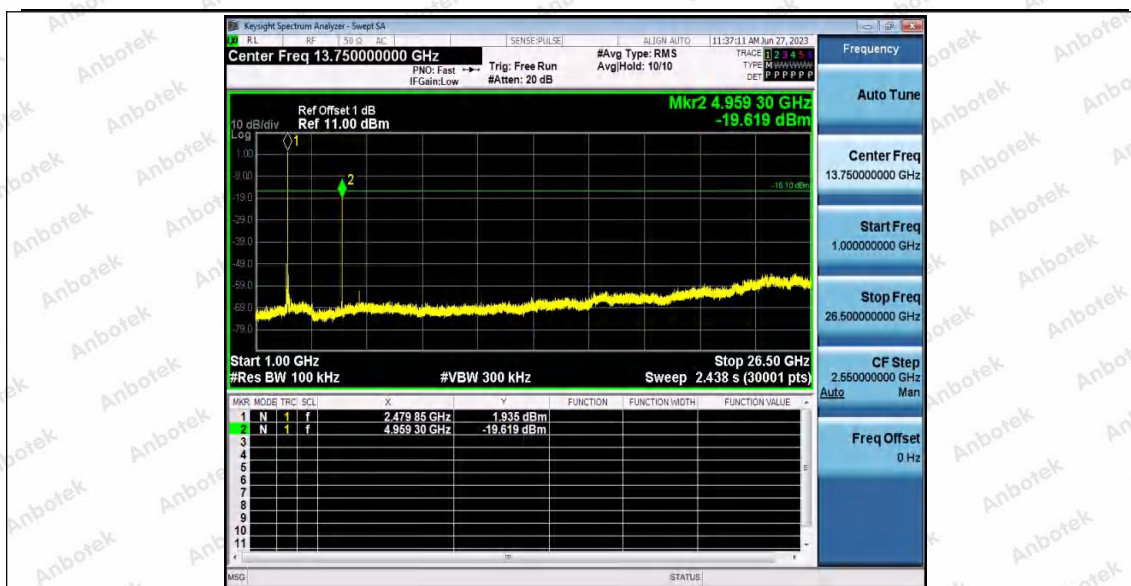
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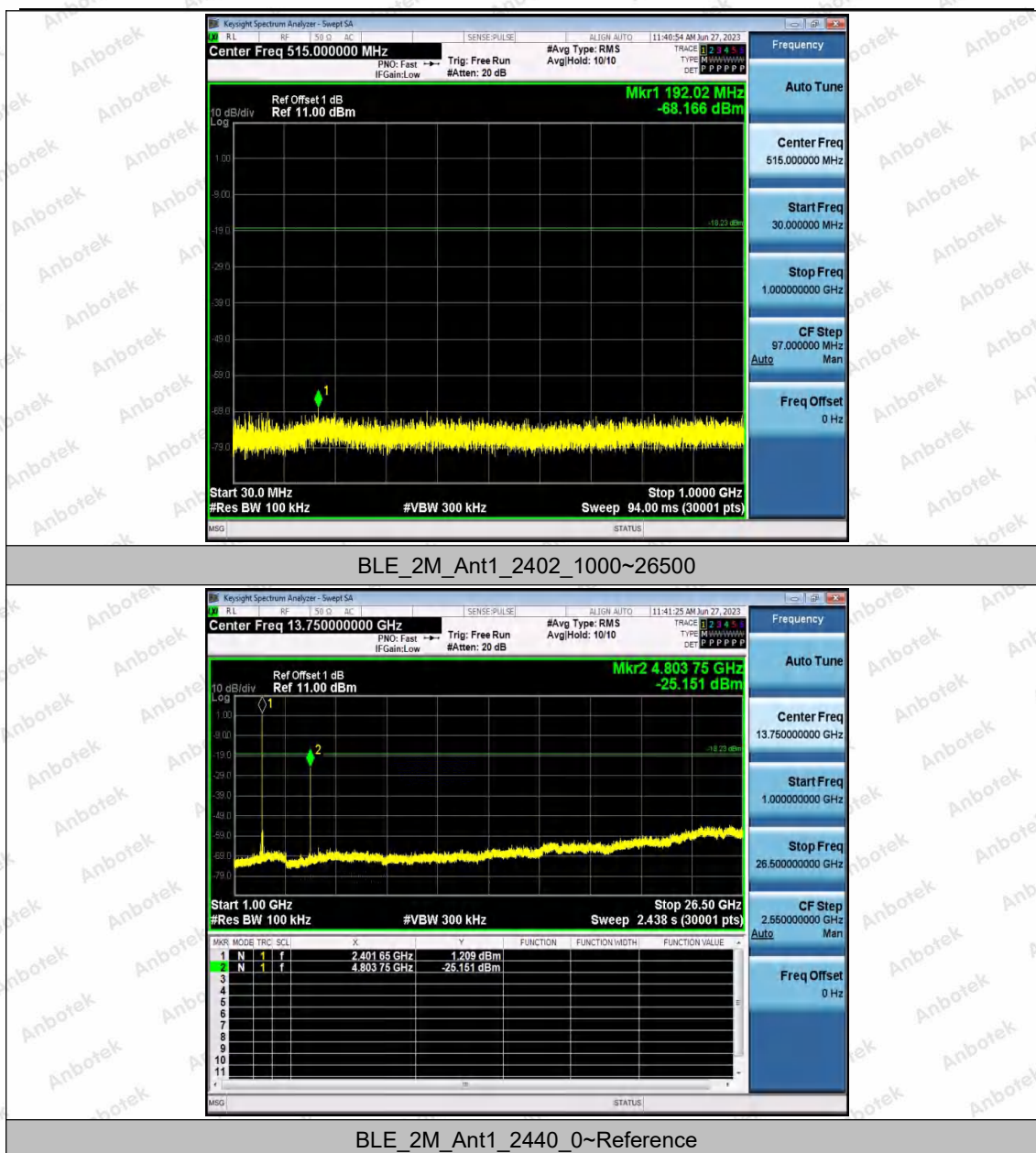


BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000





BLE_2M_Ant1_2402_1000~26500

BLE_2M_Ant1_2440_0~Reference

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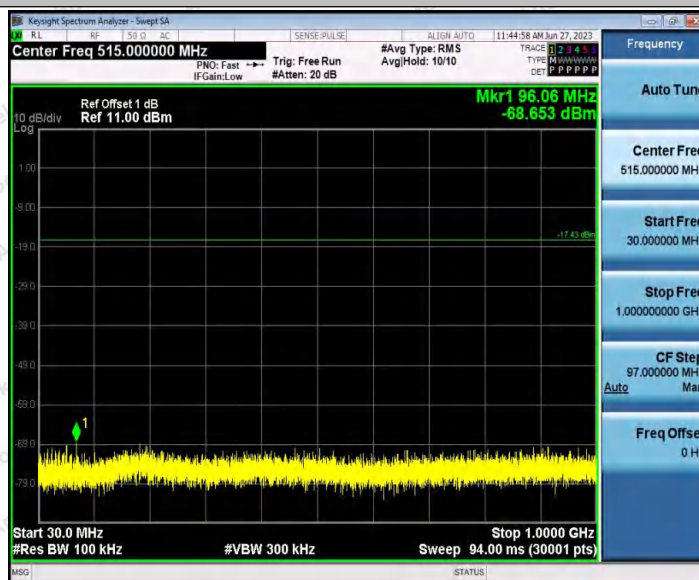


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BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500

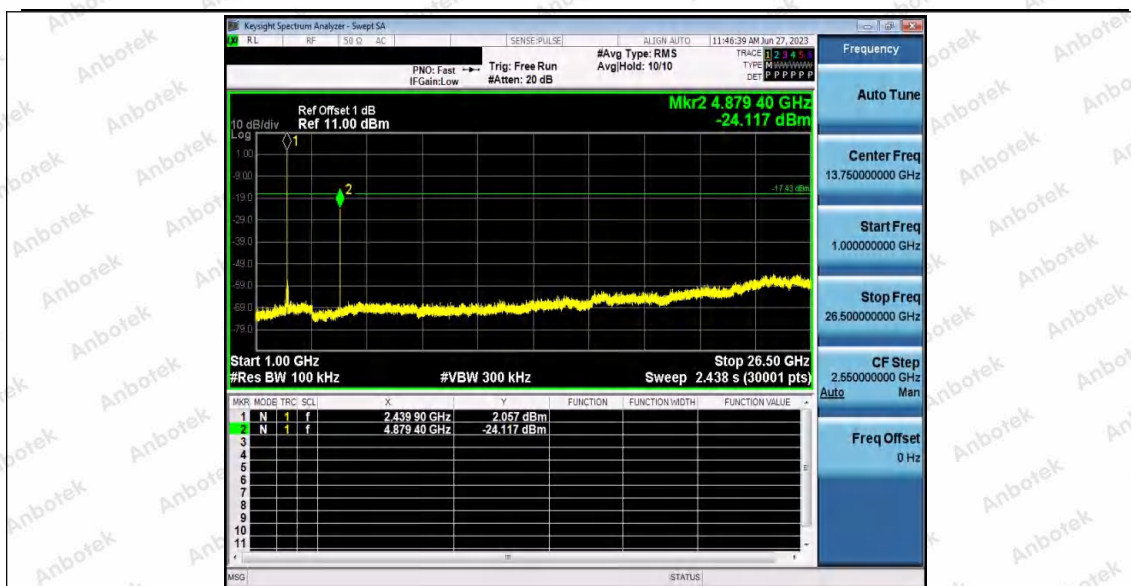
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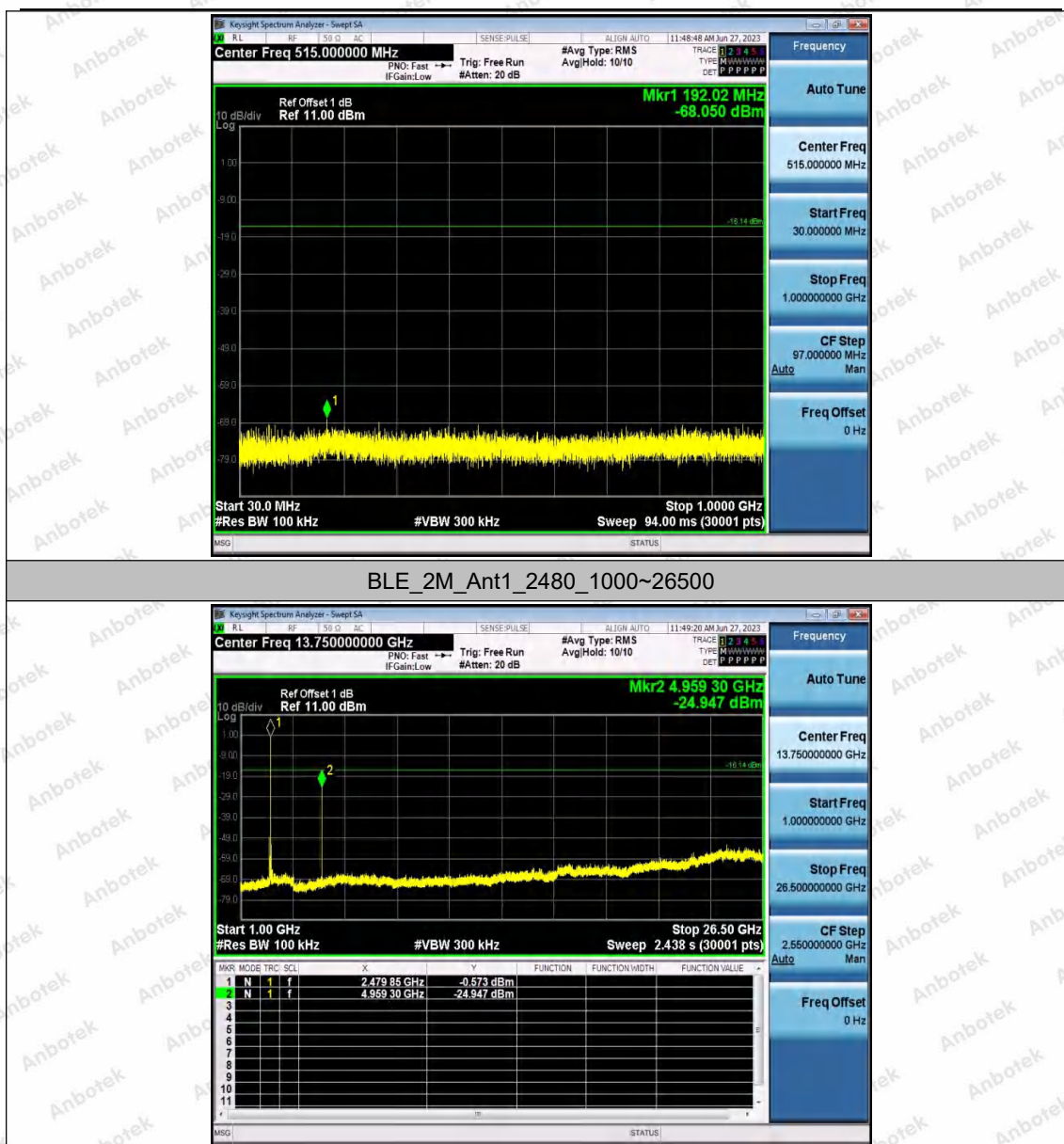


BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000





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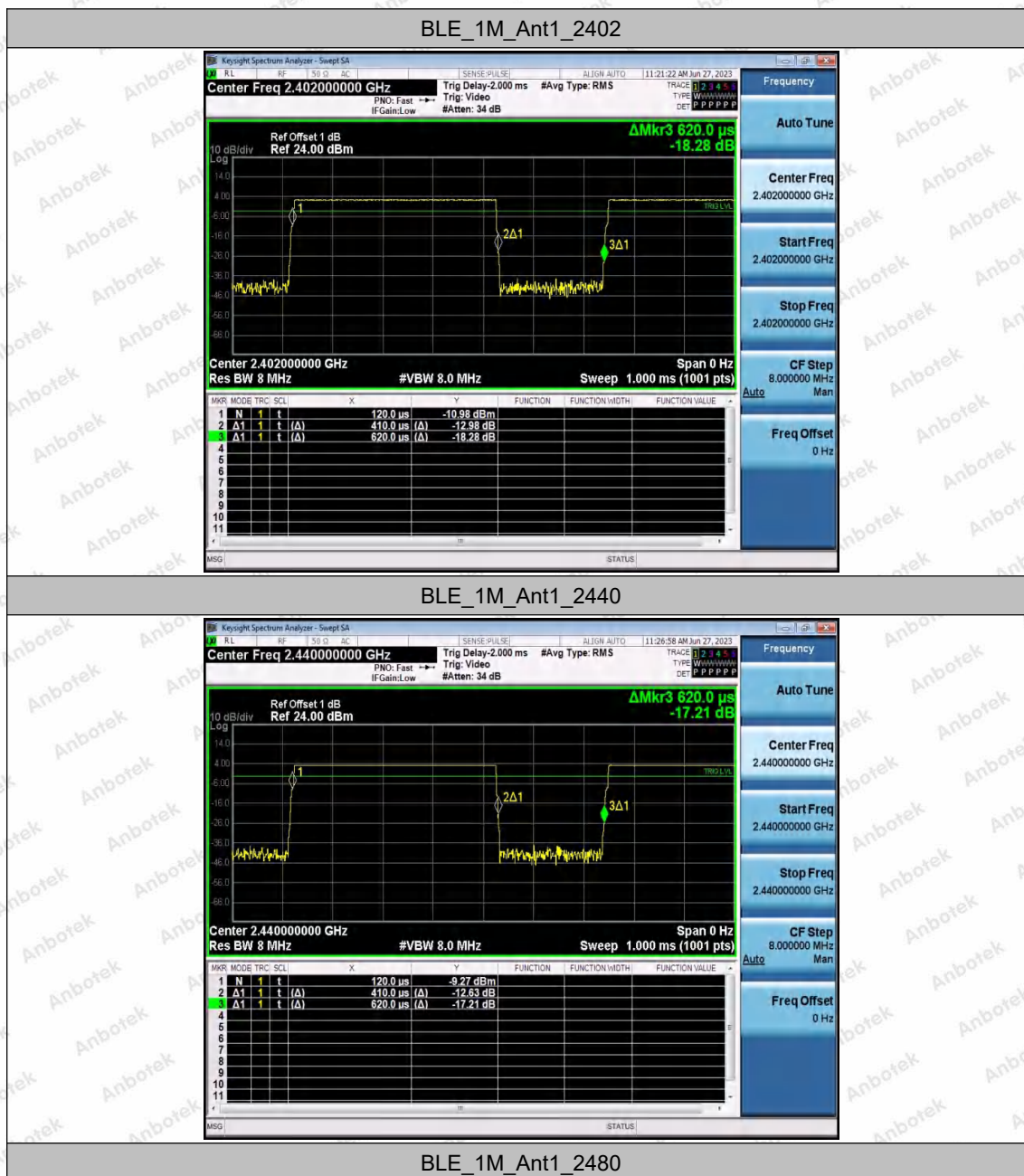
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.41	0.62	66.13	1.80
		2440	0.41	0.62	66.13	1.80
		2480	0.41	0.62	66.13	1.80
BLE_2M	Ant1	2402	0.23	0.62	37.10	4.31
		2440	0.23	0.62	37.10	4.31
		2480	0.23	0.62	37.10	4.31



Test Graphs



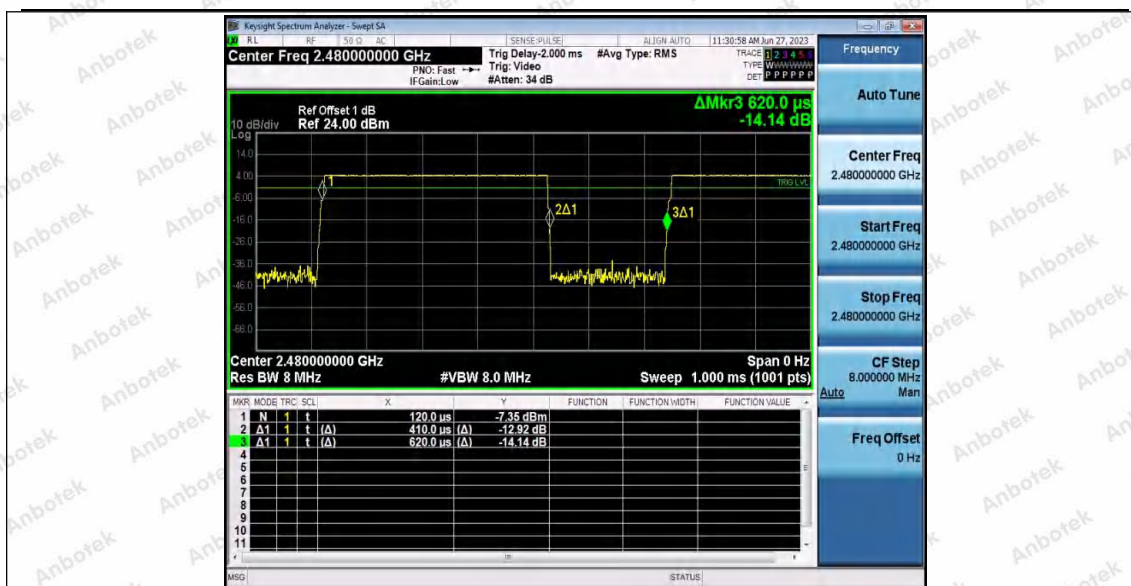
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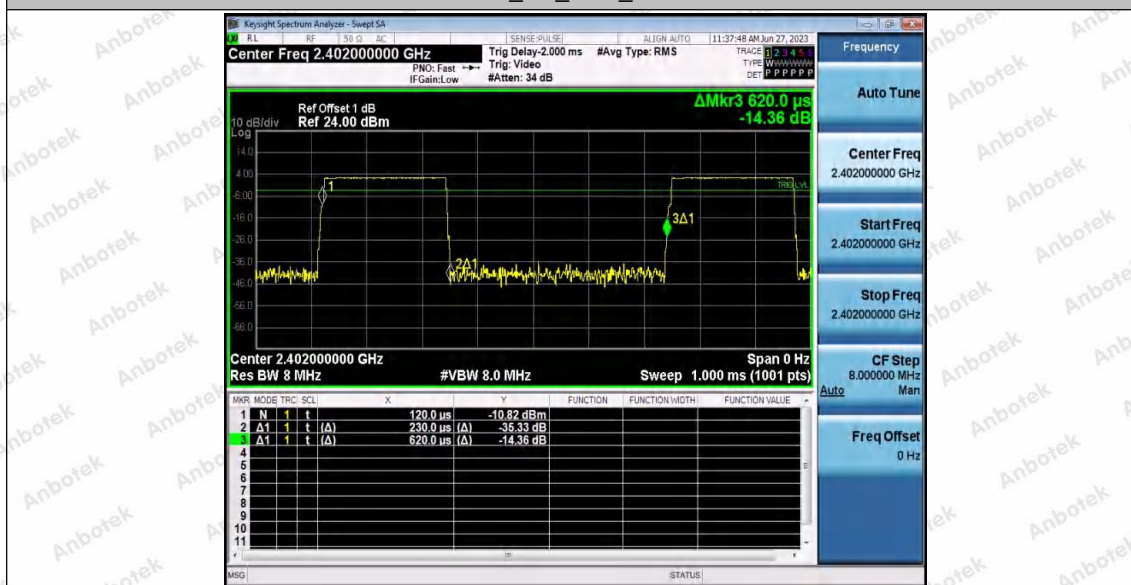


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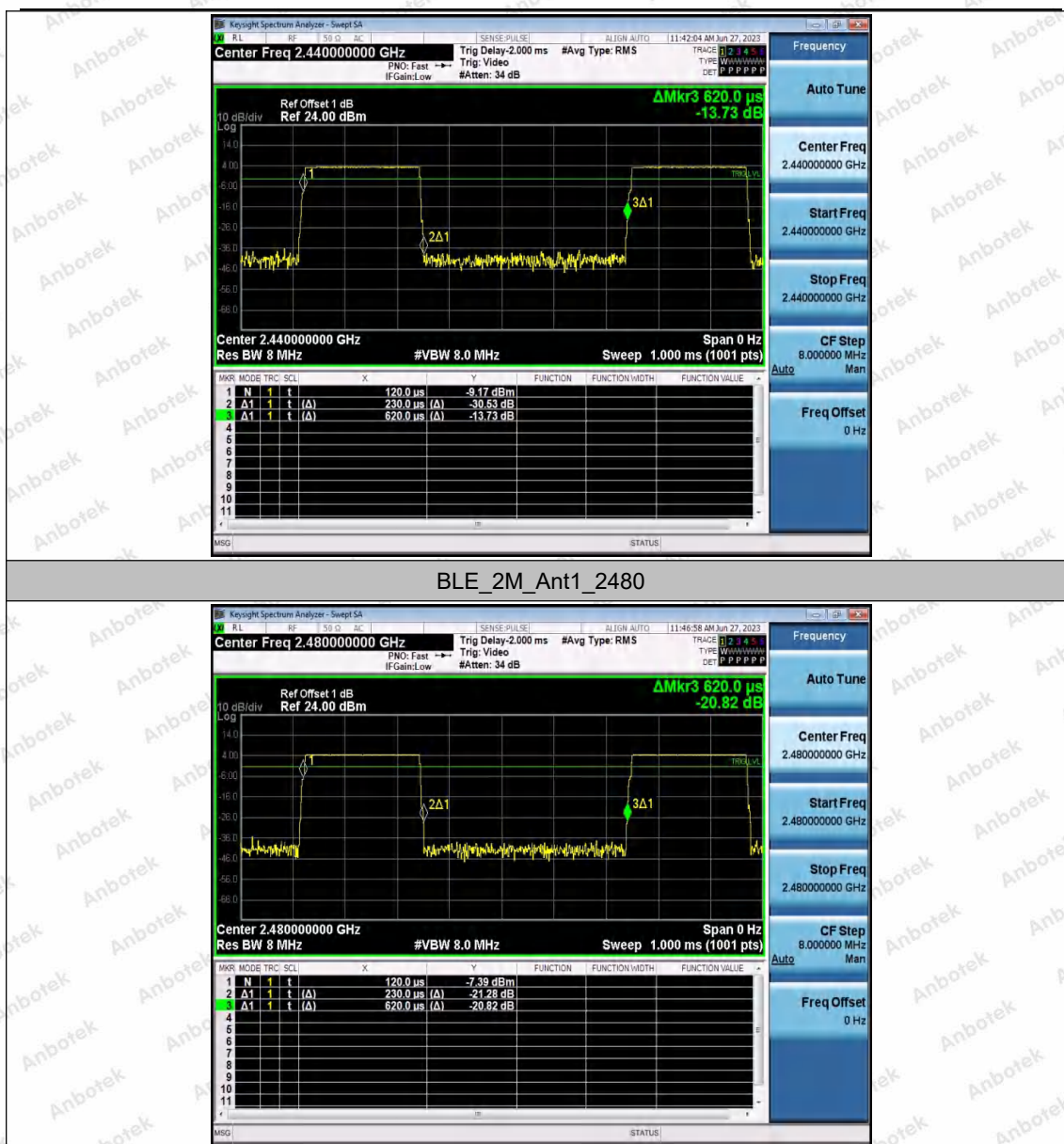


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





---End---

