

Appendix Test Data

Report No.:	18220WC30164802	Test Sample No.:	1-2-2
Start Test Date:	2023.08.07	Finish Test Date:	2023.09.05
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.5°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	0.624	2401.704	2402.328	0.5	PASS
		2440	0.640	2439.696	2440.336	0.5	PASS
		2480	0.652	2479.700	2480.352	0.5	PASS
BLE_2M	Ant1	2402	1.044	2401.512	2402.556	0.5	PASS
		2440	1.036	2439.520	2440.556	0.5	PASS
		2480	1.040	2479.524	2480.564	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	1.0743	2401.5075	2402.5818
		2440	1.0762	2439.5097	2440.5859
		2480	1.1158	2479.4842	2480.6000
BLE_2M	Ant1	2402	2.0748	2401.0089	2403.0837
		2440	2.0745	2439.0230	2441.0975
		2480	2.0680	2479.0315	2481.0995



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	8.67	≤30	PASS
		2440	8.40	≤30	PASS
		2480	7.50	≤30	PASS
BLE_2M	Ant1	2402	8.65	≤30	PASS
		2440	8.43	≤30	PASS
		2480	7.53	≤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

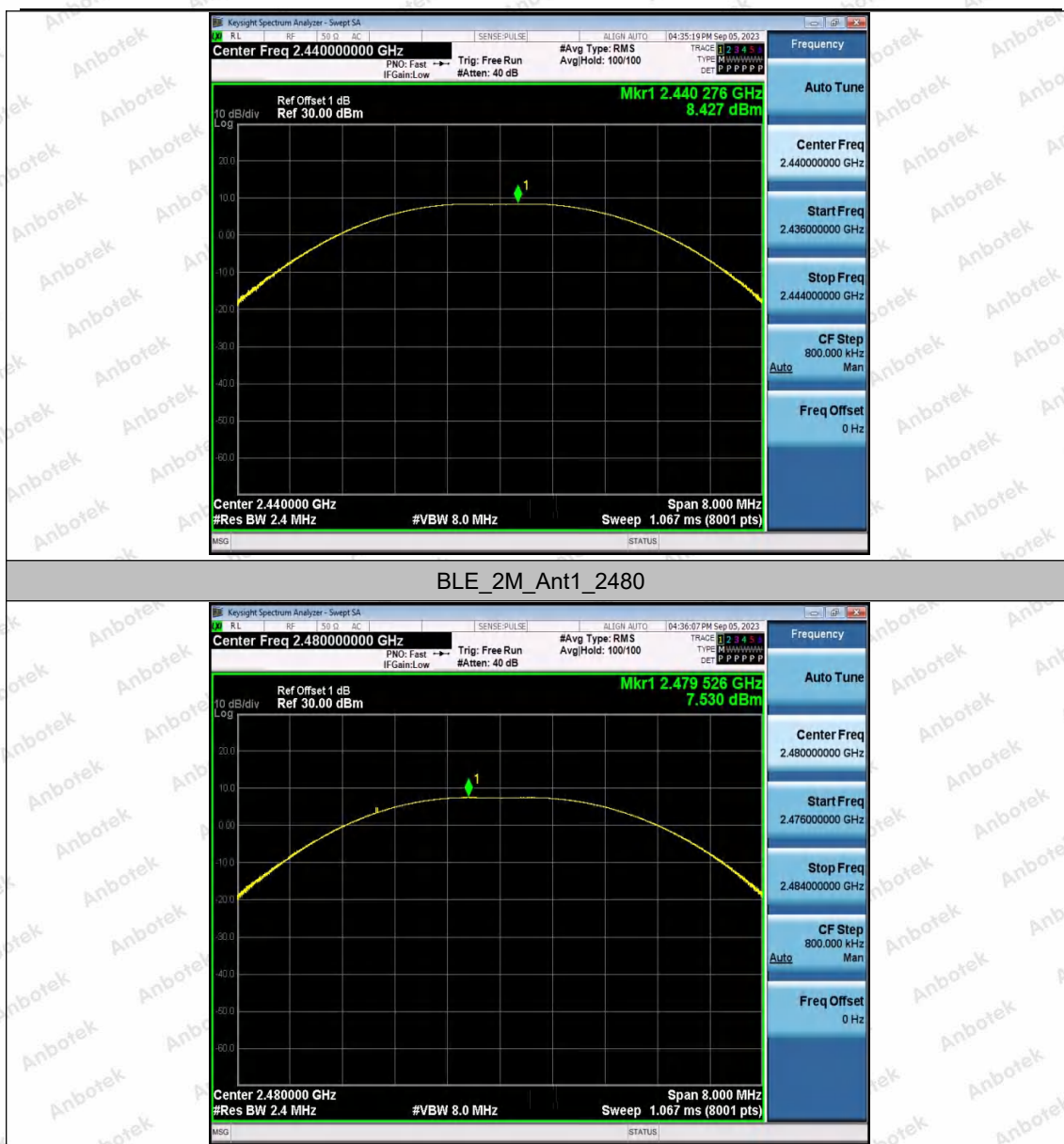
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	1.81	≤8.00	PASS
		2440	1.58	≤8.00	PASS
		2480	0.71	≤8.00	PASS
BLE_2M	Ant1	2402	-1.86	≤8.00	PASS
		2440	-2.03	≤8.00	PASS
		2480	-2.95	≤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

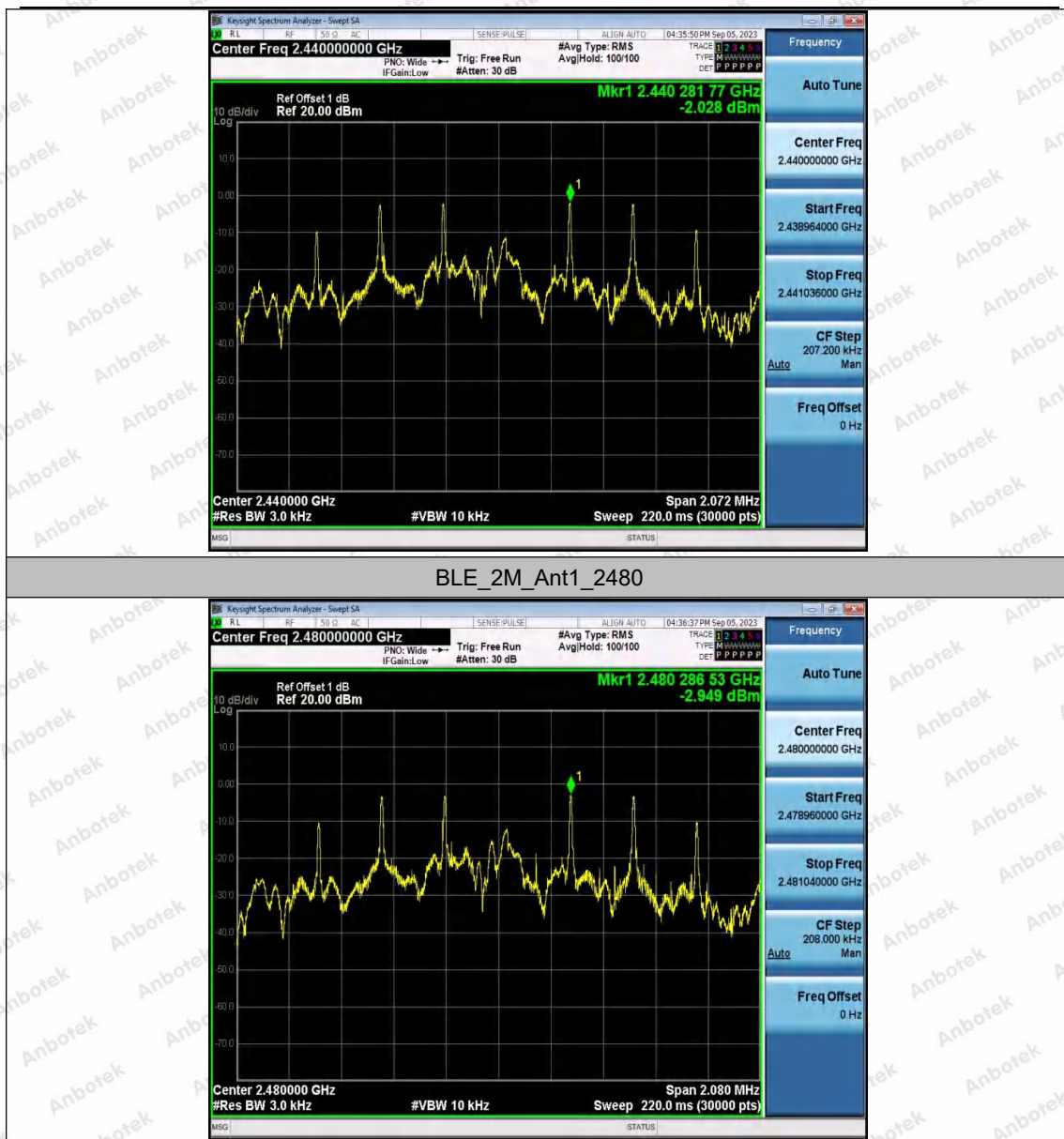
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	7.83	-26.89	≤-12.17	PASS
		High	2480	7.33	-49.86	≤-12.67	PASS
BLE_2M	Ant1	Low	2402	7.70	-20.85	≤-12.3	PASS
		High	2480	7.15	-47.77	≤-12.85	PASS



Test Graphs



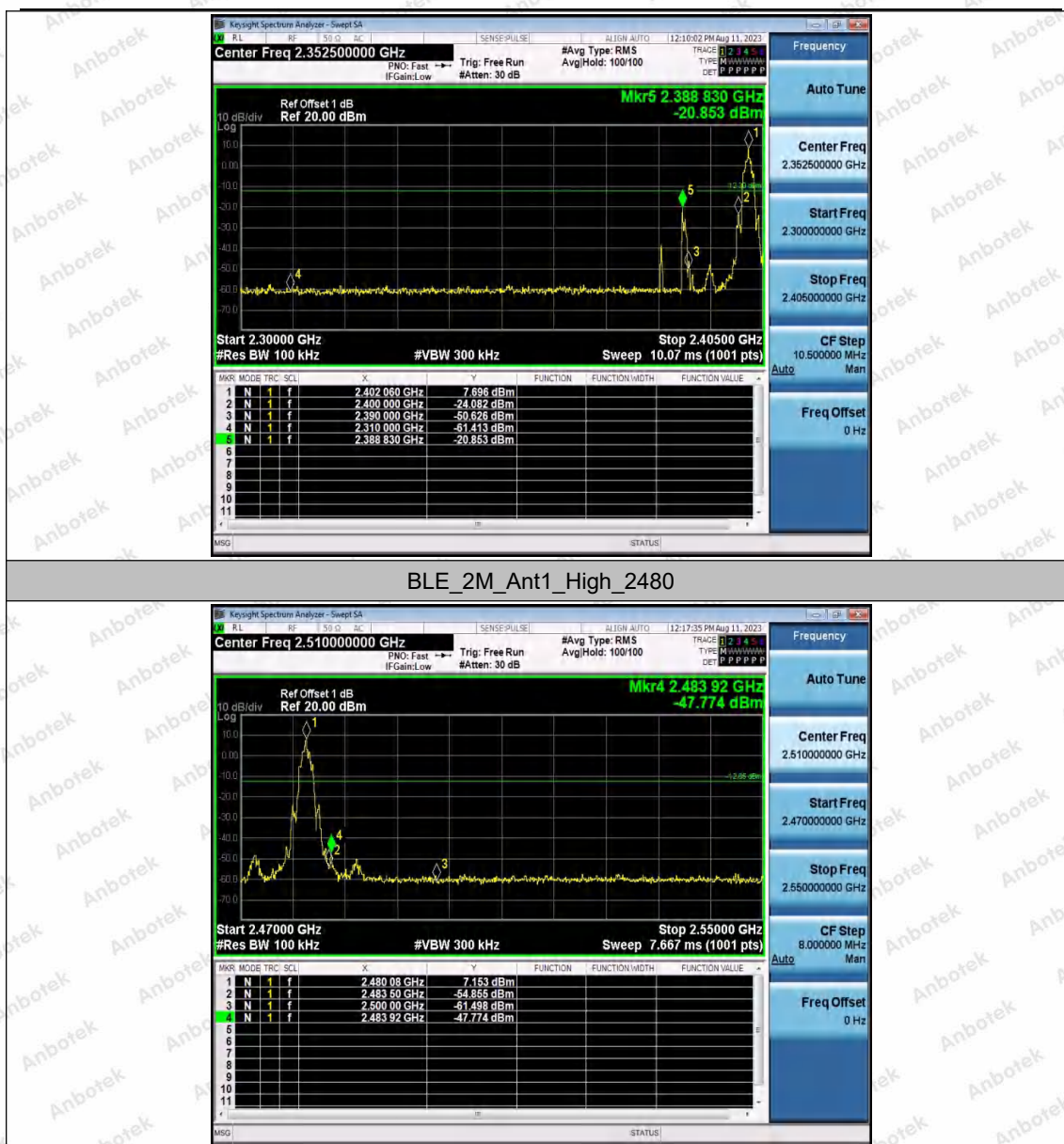
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	7.82	7.82	---	PASS
			30~1000	7.82	-68.45	≤-12.18	PASS
			1000~26500	7.82	-53.16	≤-12.18	PASS
		2440	Reference	7.83	7.83	---	PASS
			30~1000	7.83	-68.78	≤-12.17	PASS
			1000~26500	7.83	-53.68	≤-12.17	PASS
		2480	Reference	7.32	7.32	---	PASS
			30~1000	7.32	-69.25	≤-12.68	PASS
			1000~26500	7.32	-53.86	≤-12.68	PASS
BLE_2M	Ant1	2402	Reference	7.67	7.67	---	PASS
			30~1000	7.67	-68.93	≤-12.33	PASS
			1000~26500	7.67	-52.87	≤-12.33	PASS
		2440	Reference	7.70	7.70	---	PASS
			30~1000	7.70	-68.78	≤-12.3	PASS
			1000~26500	7.70	-51.25	≤-12.3	PASS
		2480	Reference	7.20	7.20	---	PASS
			30~1000	7.20	-69.24	≤-12.8	PASS
			1000~26500	7.20	-51.63	≤-12.8	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

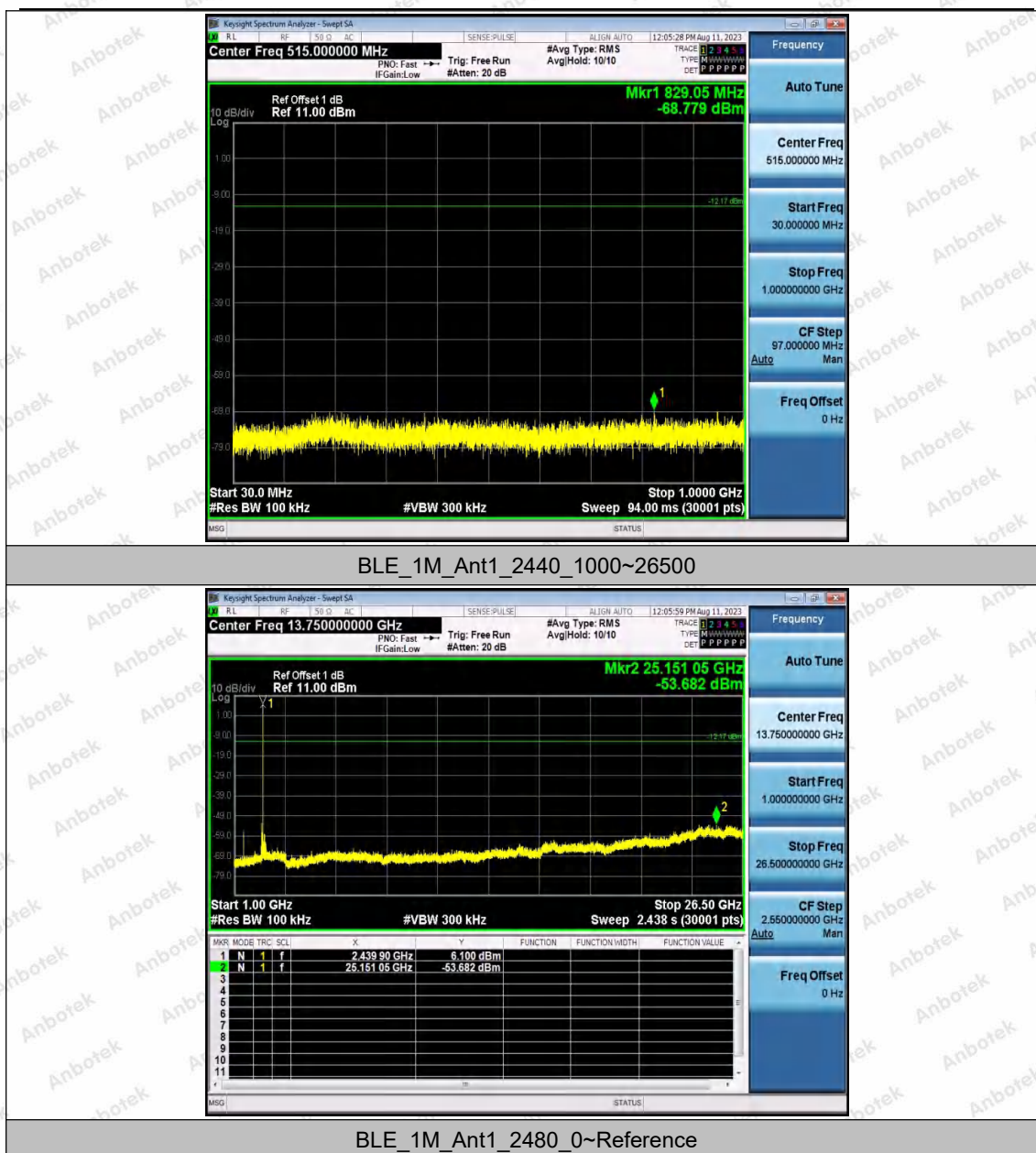
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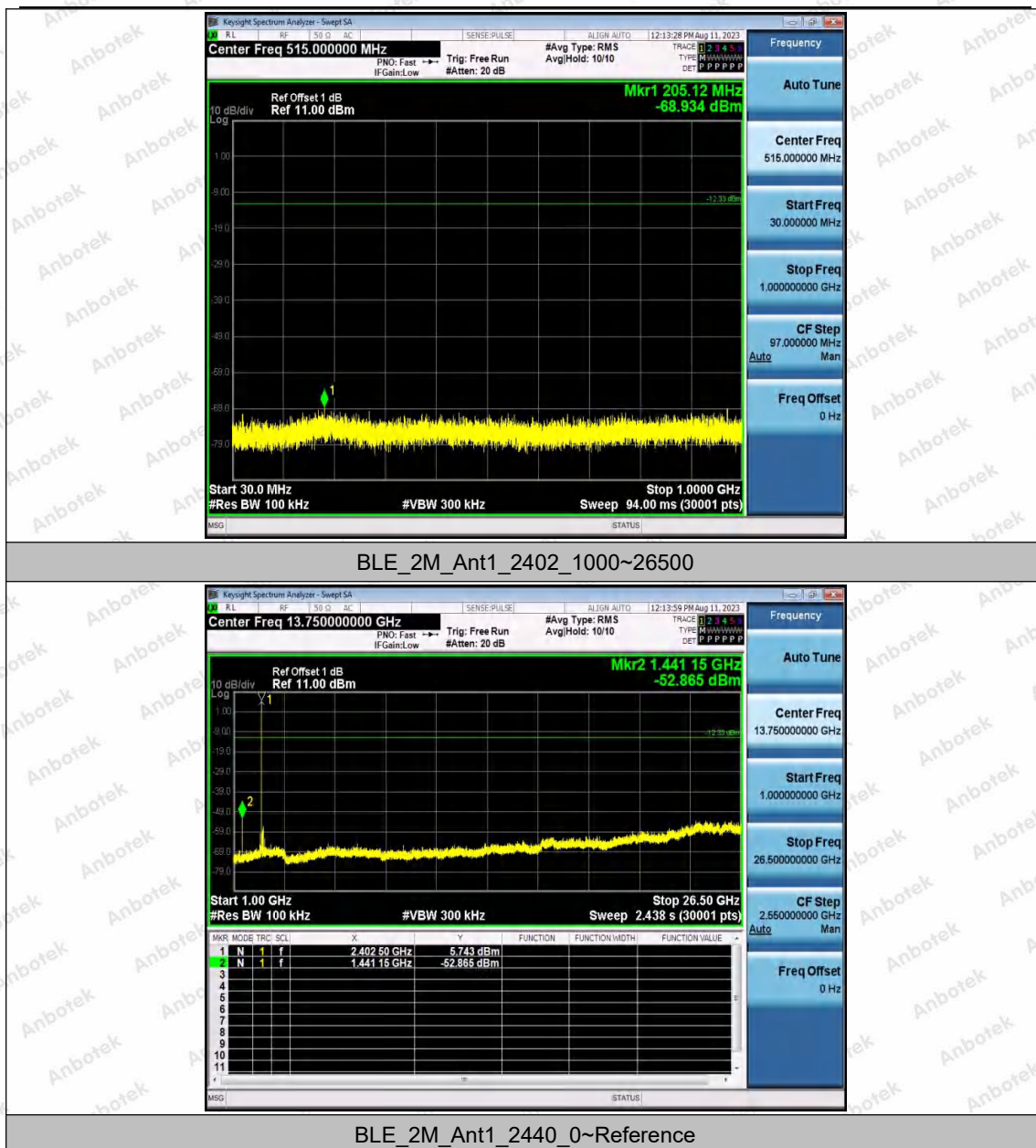


BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000



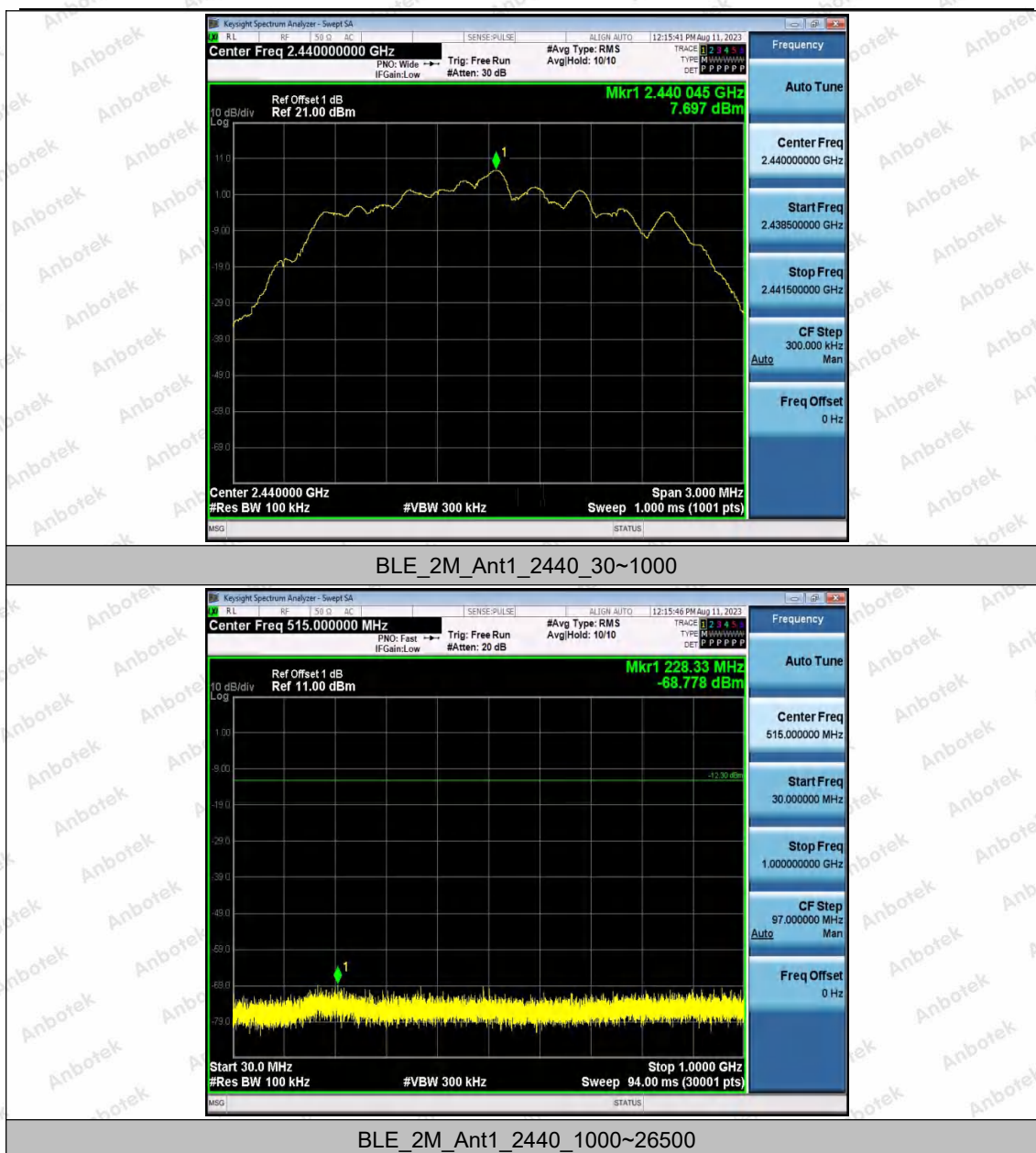
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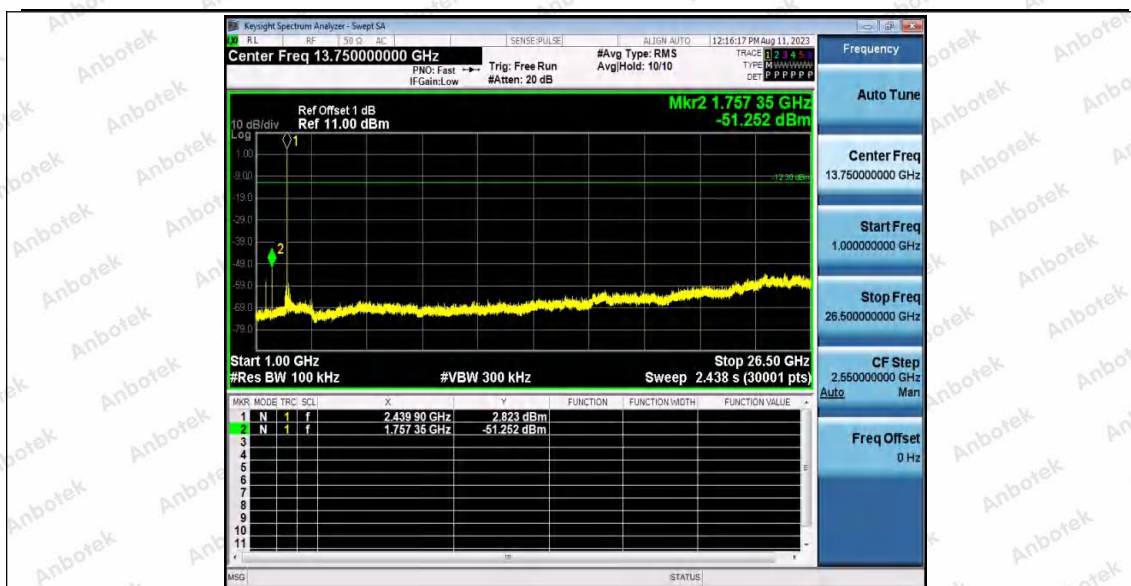
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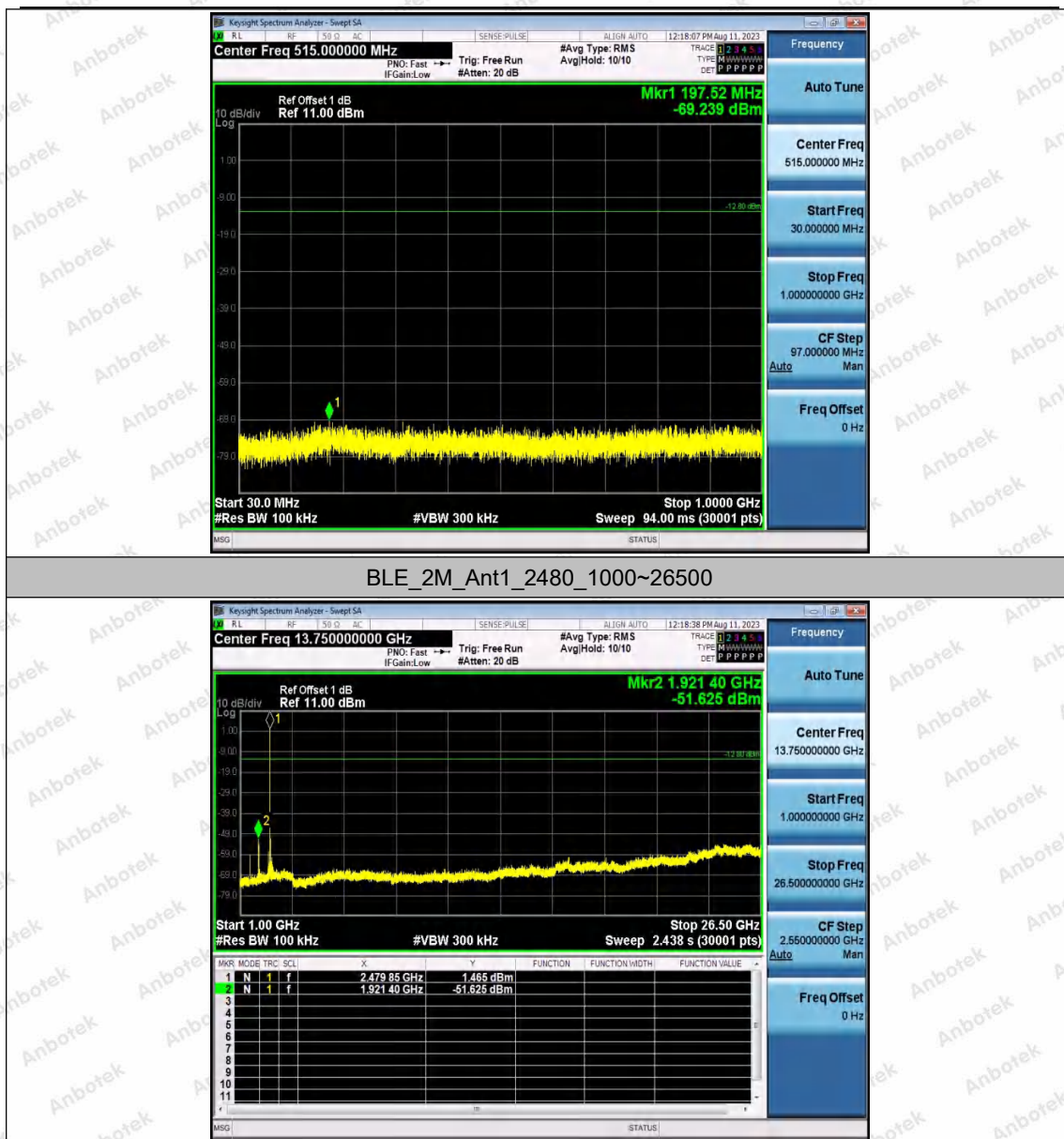


BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000





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Appendix G: Duty Cycle

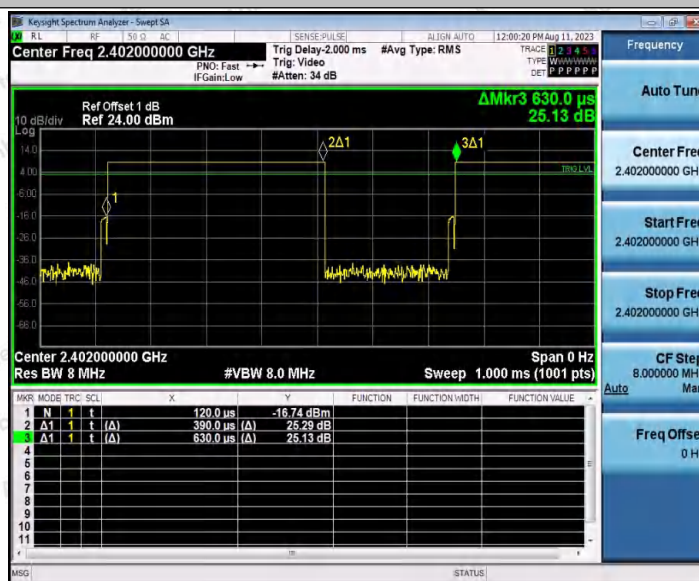
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.63	61.90	2.08
		2440	0.39	0.63	61.90	2.08
		2480	0.39	0.63	61.90	2.08
BLE_2M	Ant1	2402	0.21	0.63	33.33	4.77
		2440	0.21	0.63	33.33	4.77
		2480	0.21	0.63	33.33	4.77



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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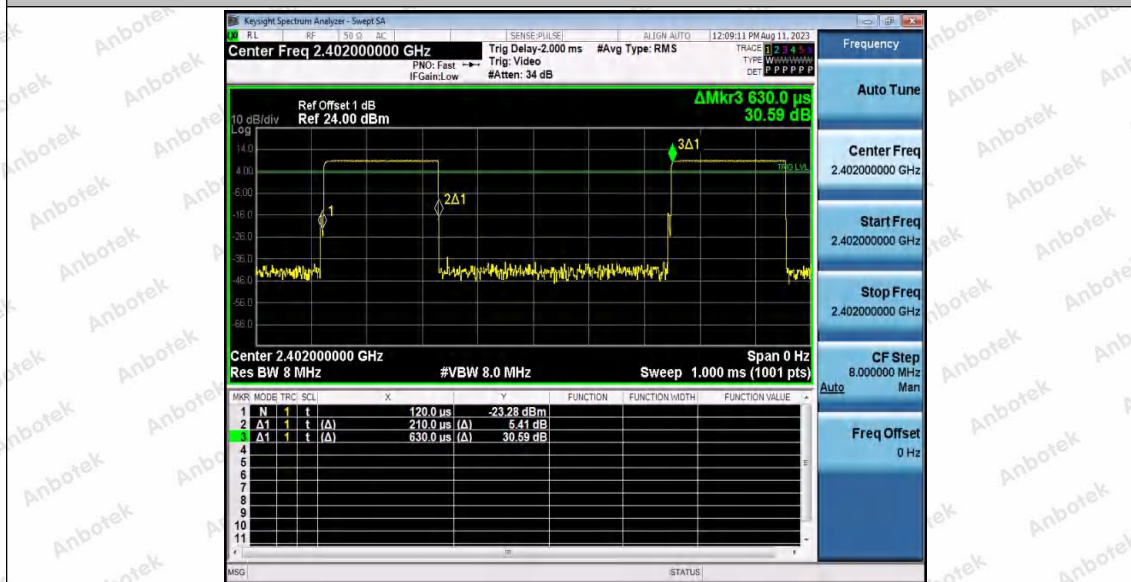


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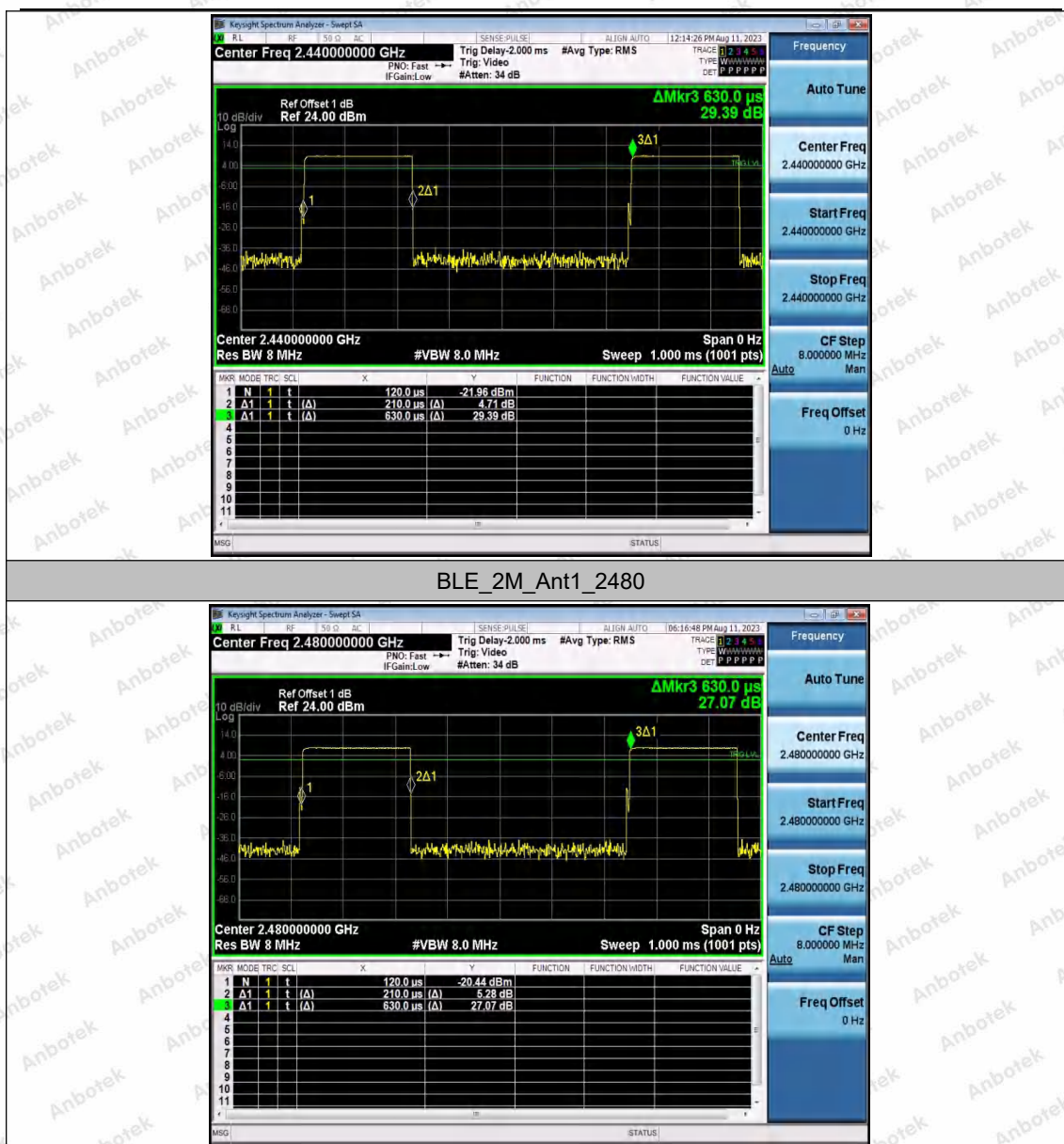


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





---End---

