

Appendix Test Data

Report No.:	18220WC30168502	Test Sample No.:	1-2-2
Start Test Date:	2023.08.08	Finish Test Date:	2023.08.30
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.6°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	0.660	2401.660	2402.320	0.5	PASS
		2440	0.636	2439.656	2440.292	0.5	PASS
		2480	0.616	2479.668	2480.284	0.5	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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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	1.0803	2401.4625	2402.5428
		2440	1.0690	2439.4677	2440.5367
		2480	1.0606	2479.4808	2480.5414



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	9.88	≤30	PASS
		2440	9.67	≤30	PASS
		2480	9.55	≤30	PASS

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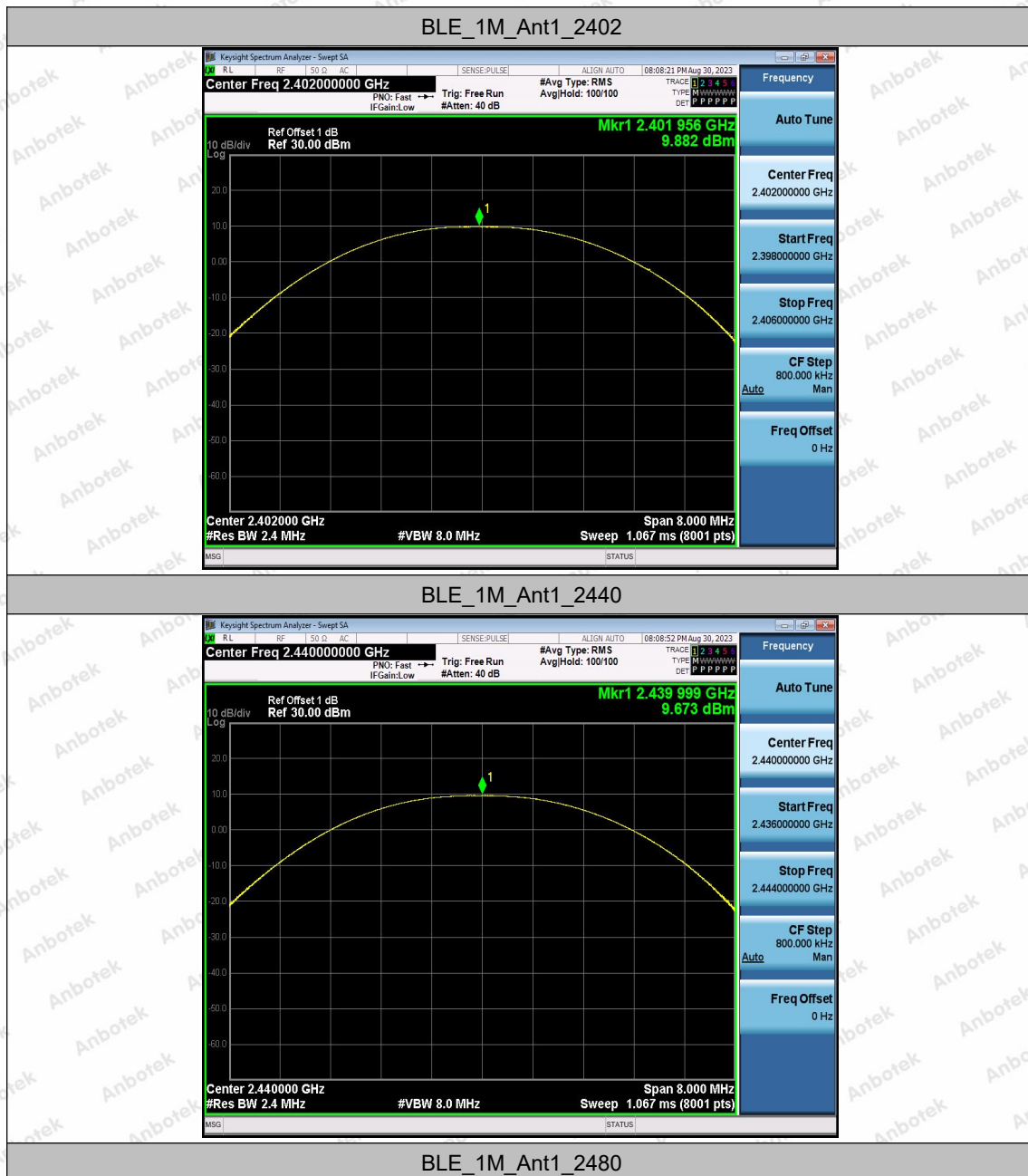
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Test Graphs Peak



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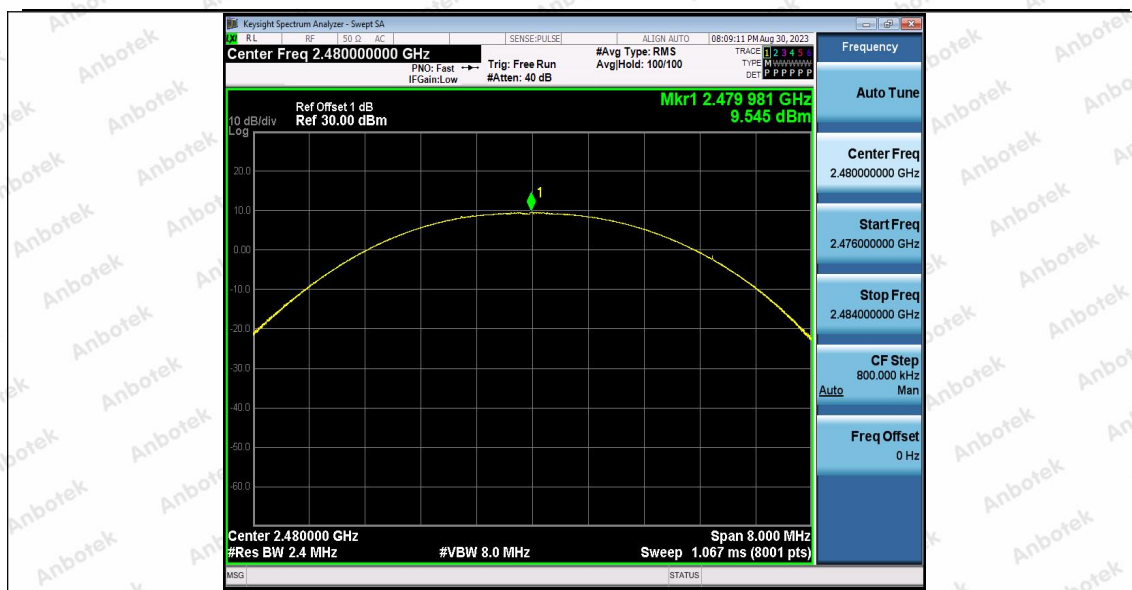


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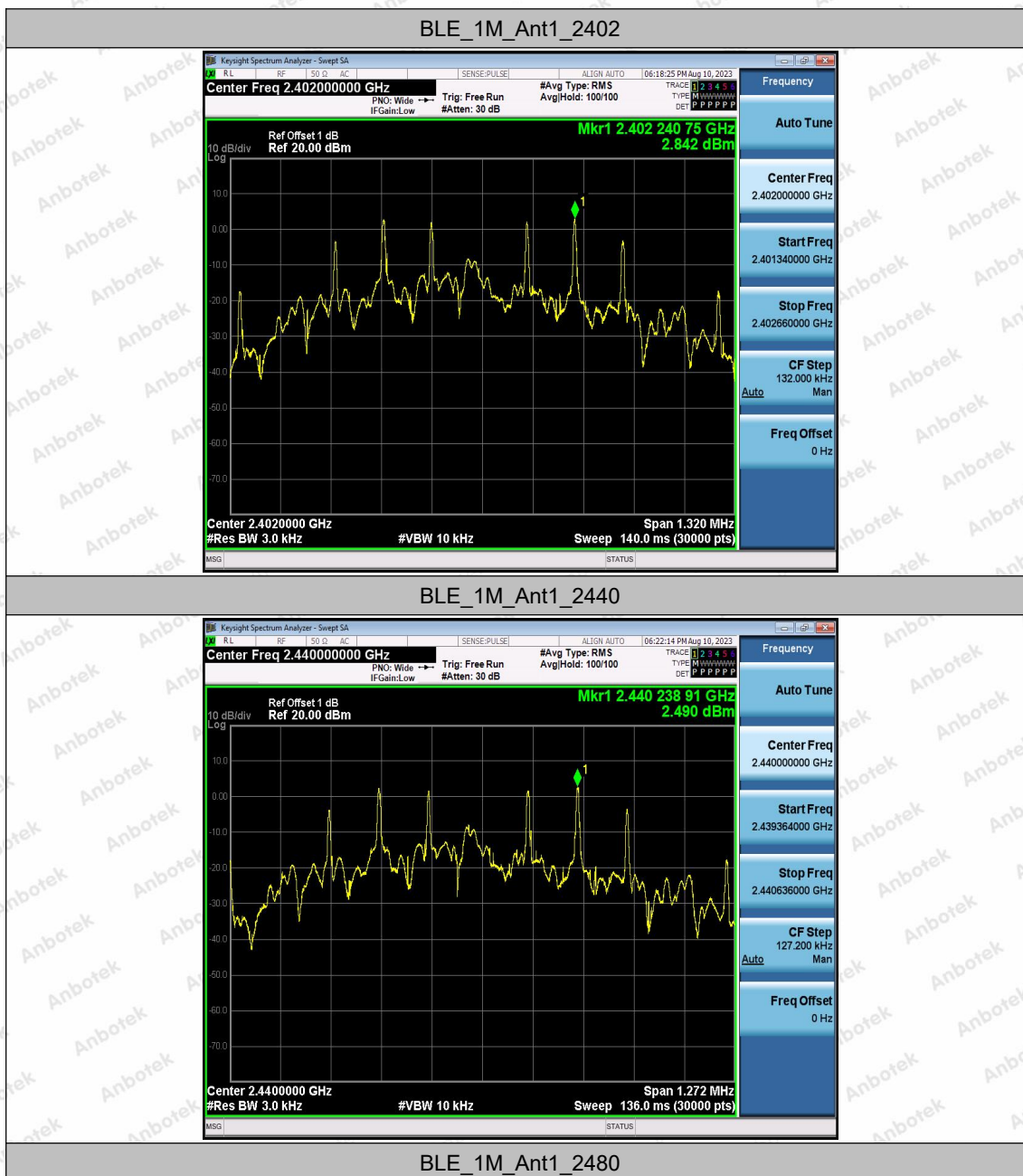
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	2.84	≤8.00	PASS
		2440	2.49	≤8.00	PASS
		2480	2.16	≤8.00	PASS



Test Graphs



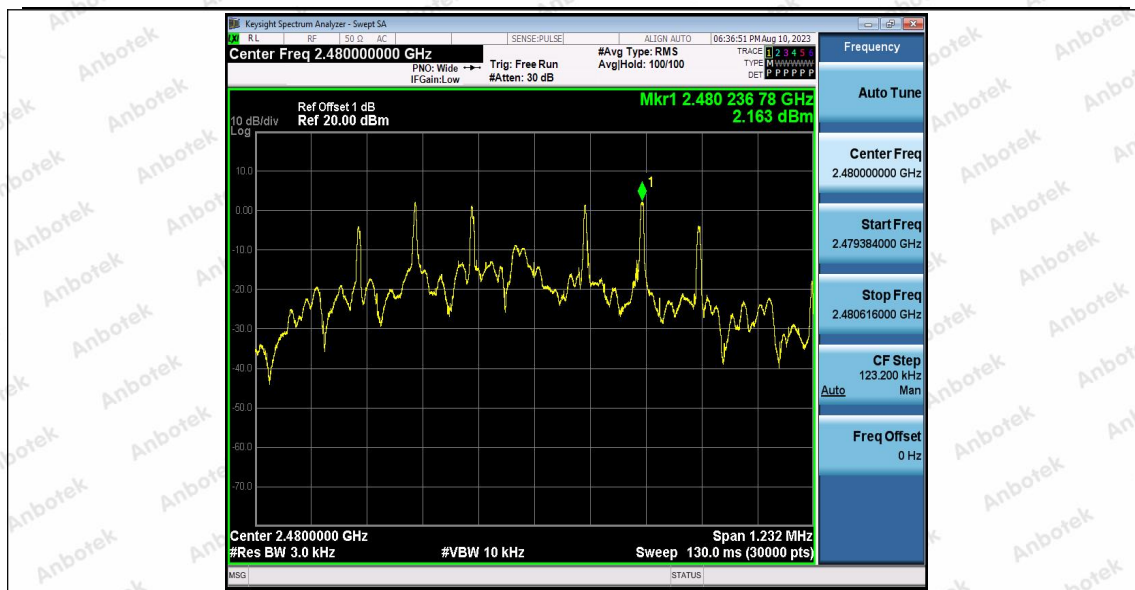
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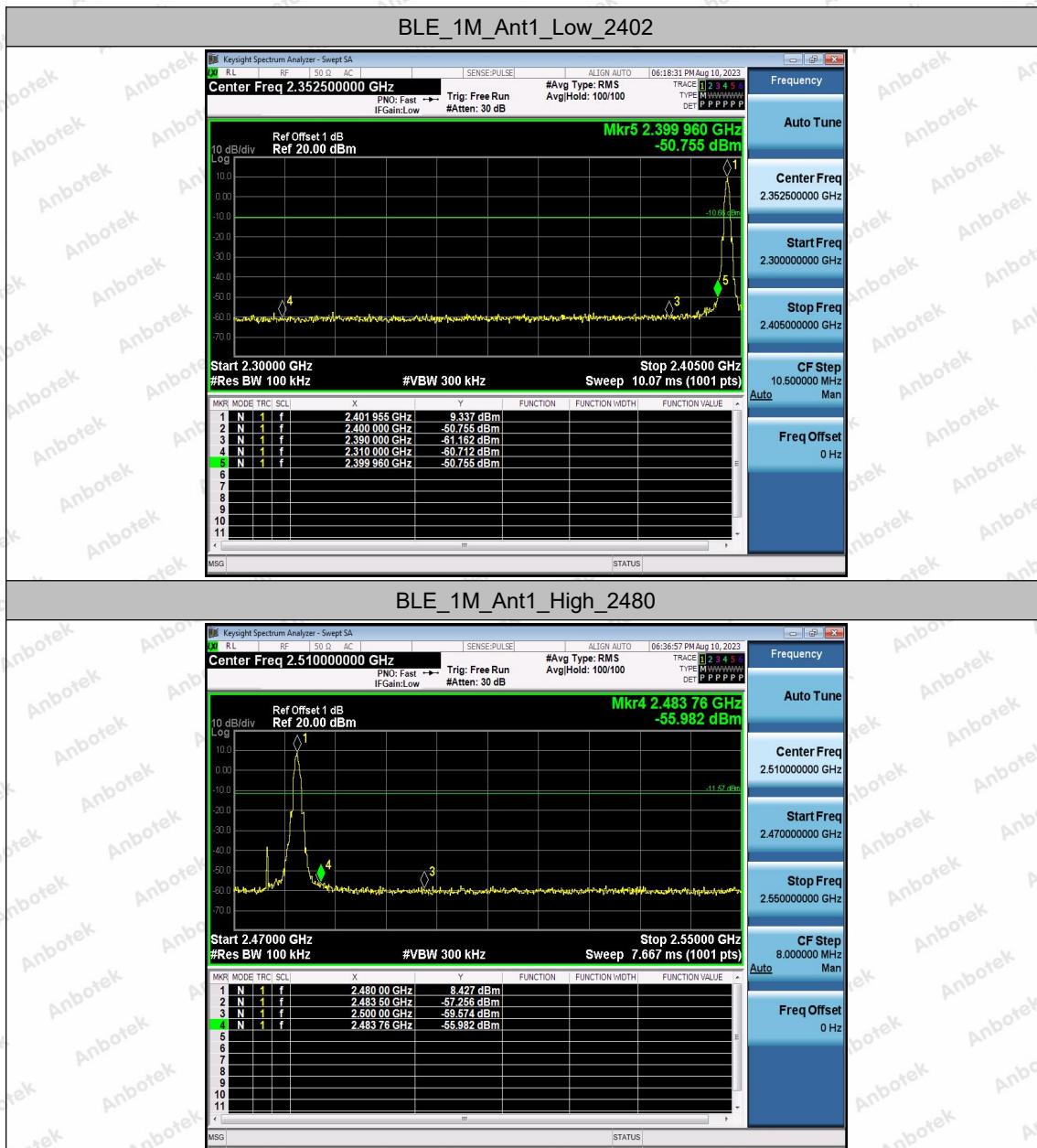
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	9.34	-50.76	≤-10.66	PASS
		High	2480	8.43	-55.98	≤-11.57	PASS



Test Graphs



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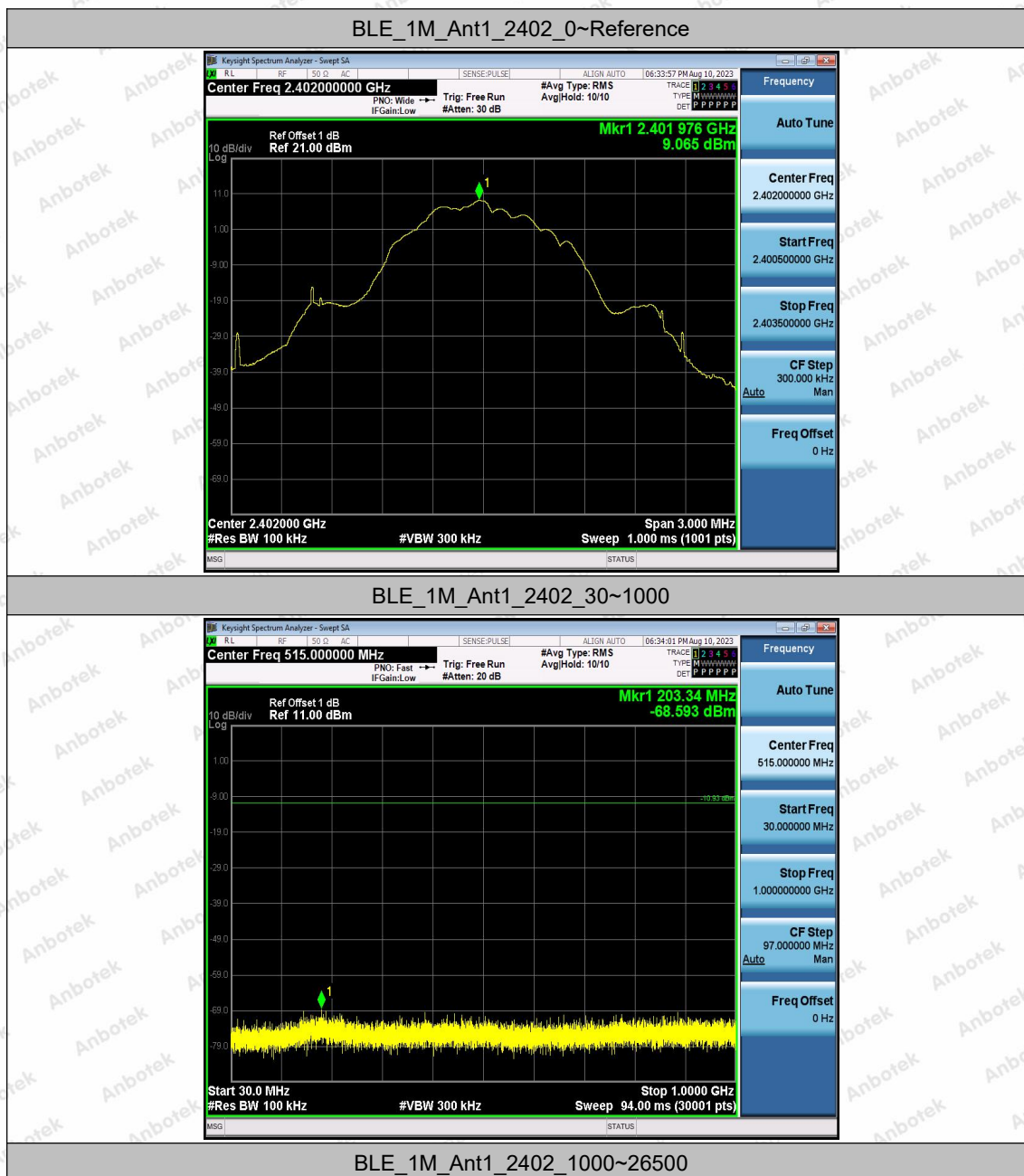
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	9.07	9.07	---	PASS
			30~1000	9.07	-68.59	≤-10.93	PASS
			1000~26500	9.07	-33.69	≤-10.93	PASS
		2440	Reference	8.83	8.83	---	PASS
			30~1000	8.83	-68.04	≤-11.17	PASS
			1000~26500	8.83	-32.23	≤-11.17	PASS
		2480	Reference	8.58	8.58	---	PASS
			30~1000	8.58	-69.63	≤-11.42	PASS
			1000~26500	8.58	-33.04	≤-11.42	PASS



Test Graphs



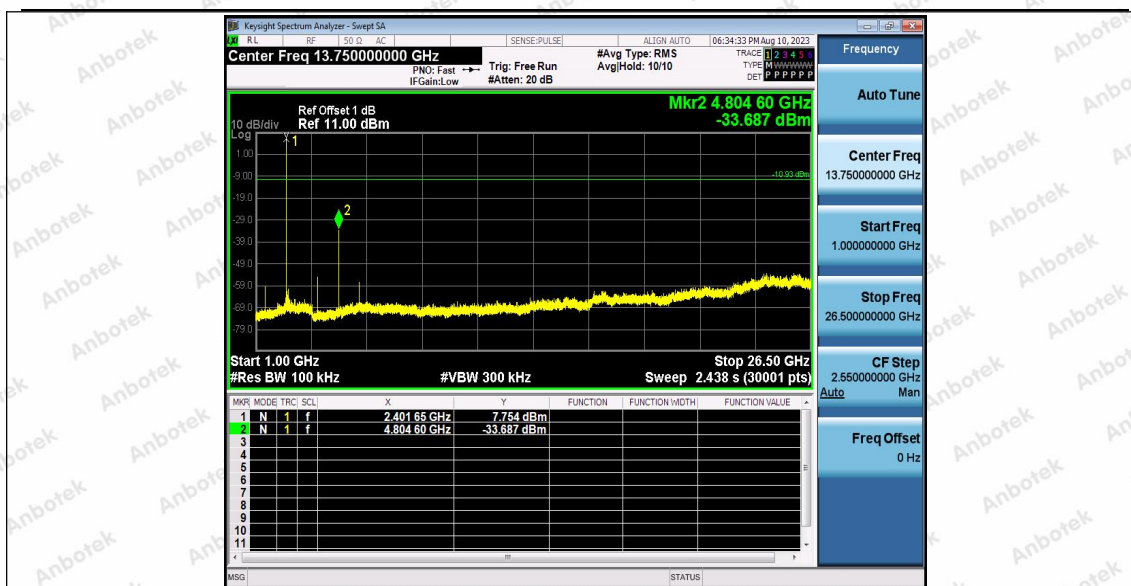
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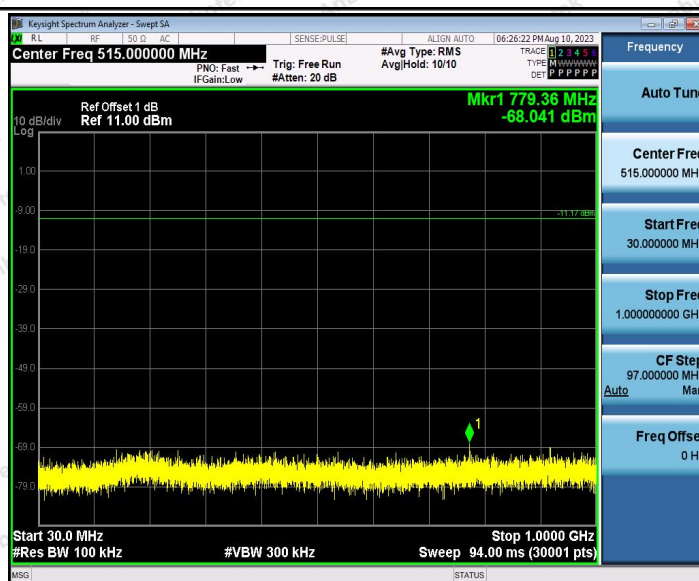


BLE_1M_Ant1_2440_0~Reference

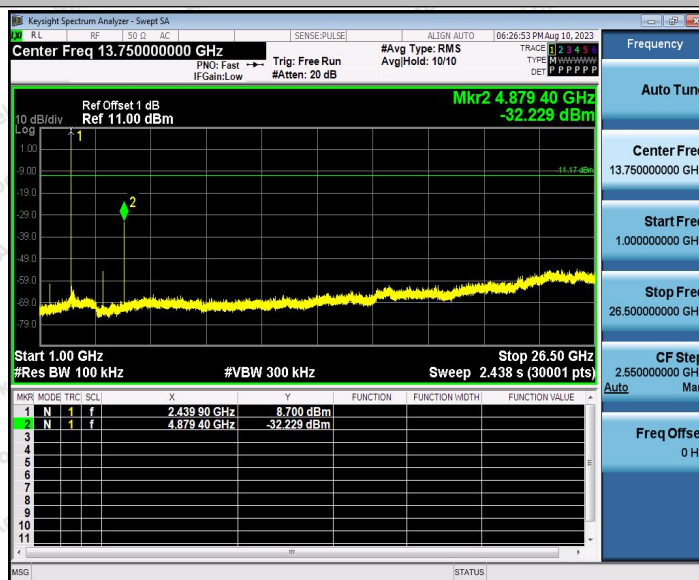


BLE_1M_Ant1_2440_30~1000





BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

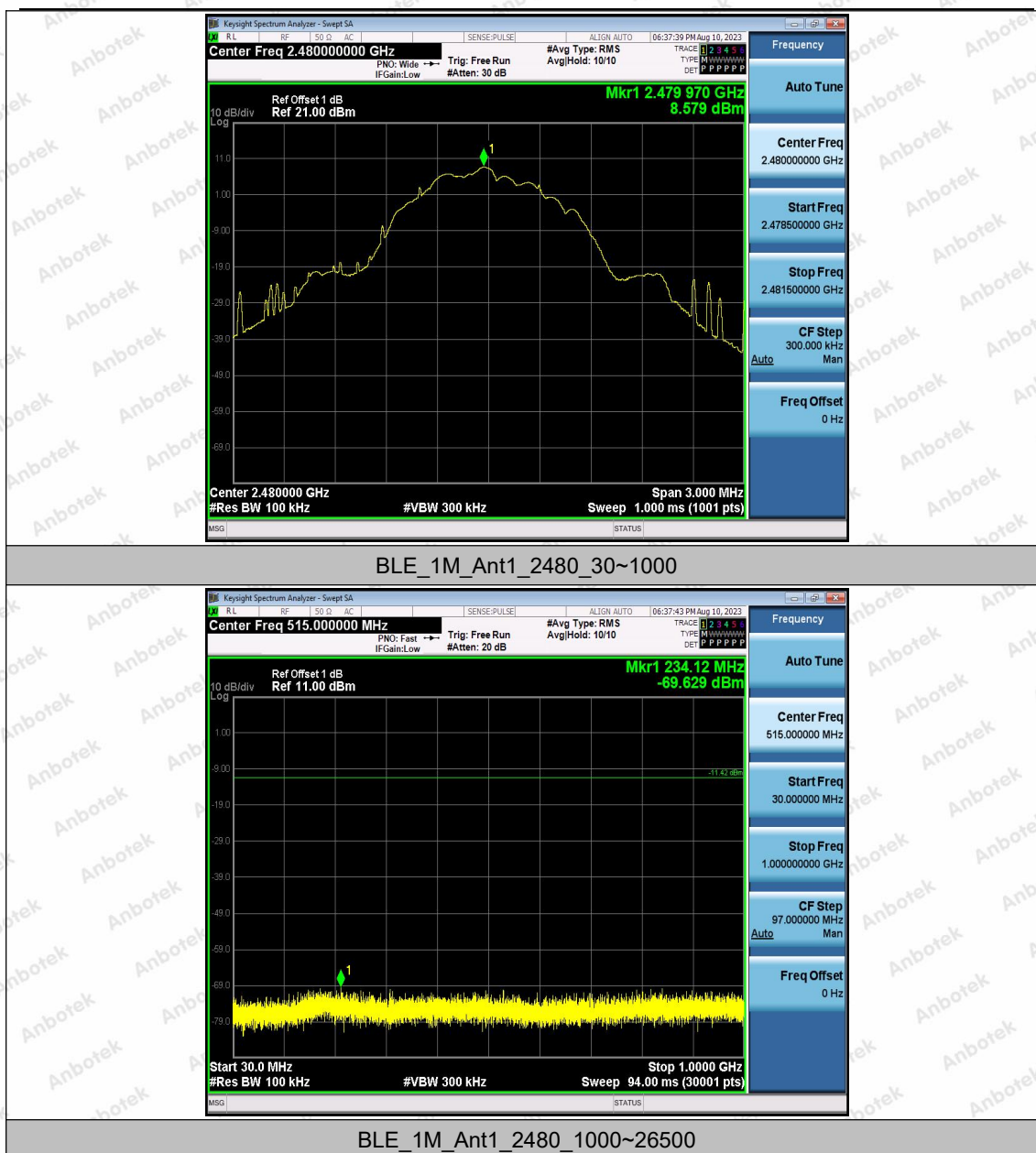
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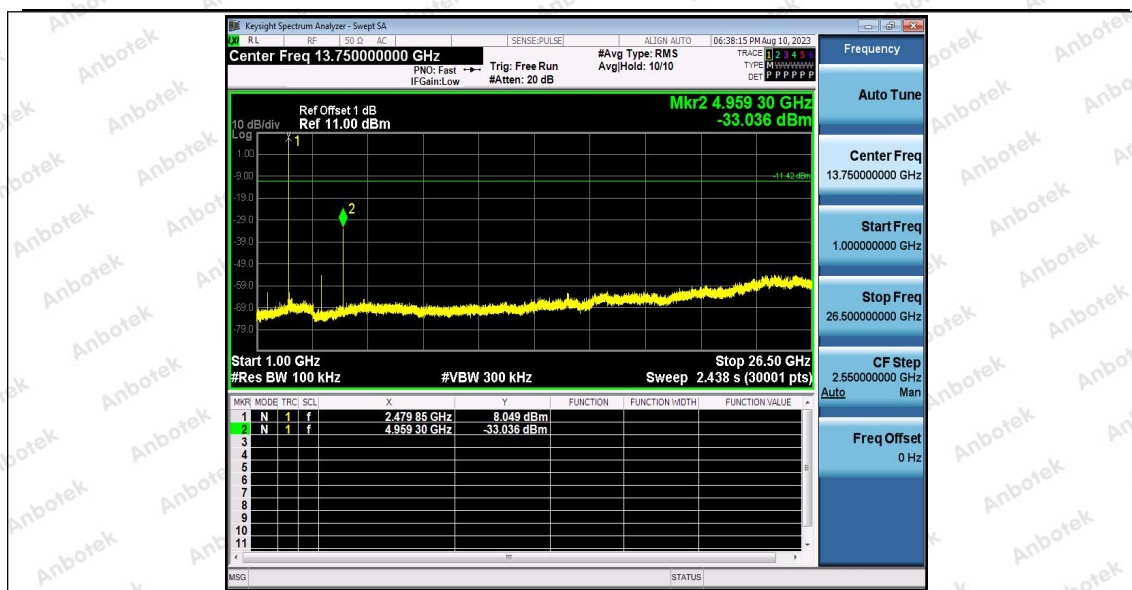
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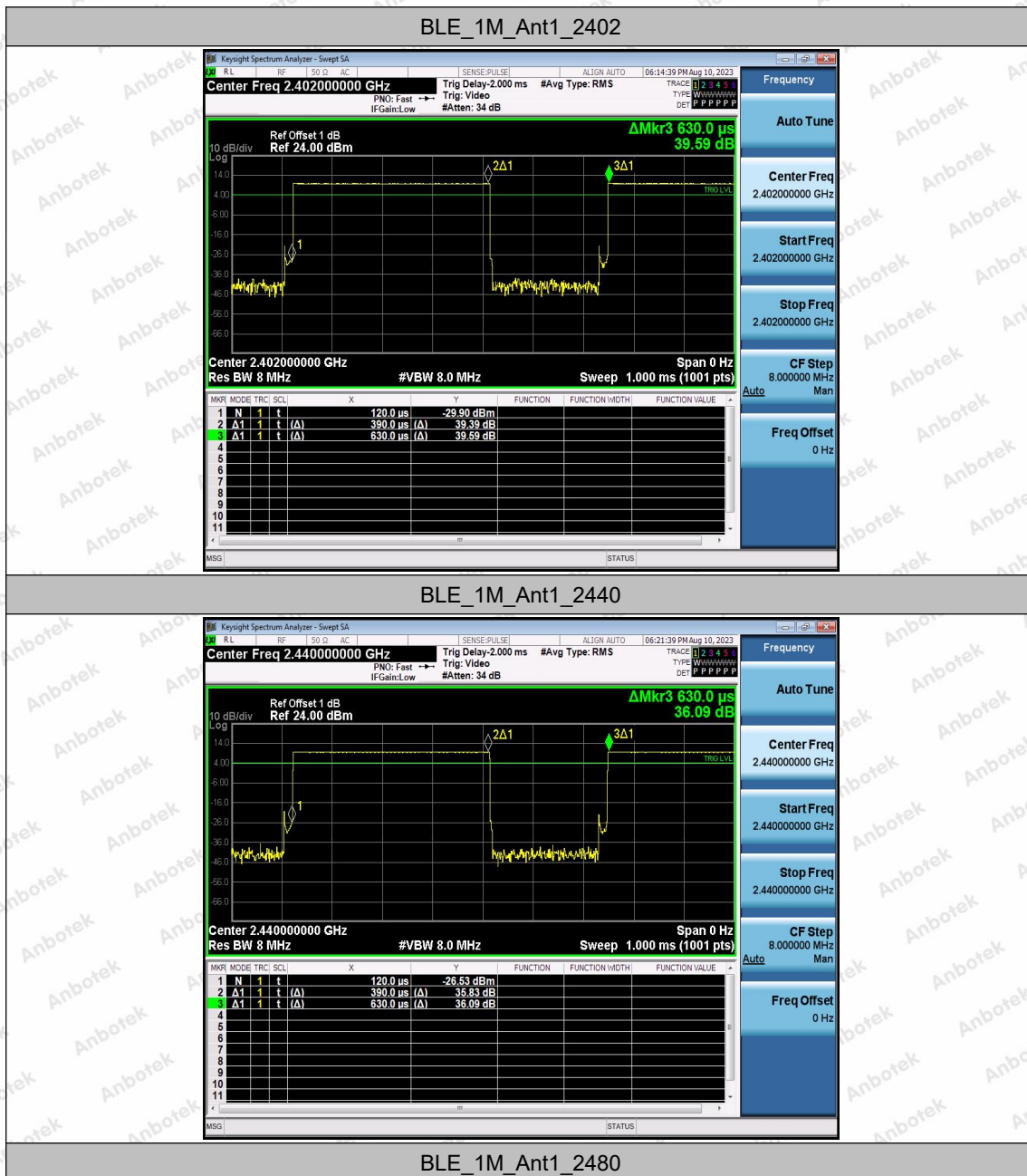
Appendix G: Duty Cycle

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



Test Graphs



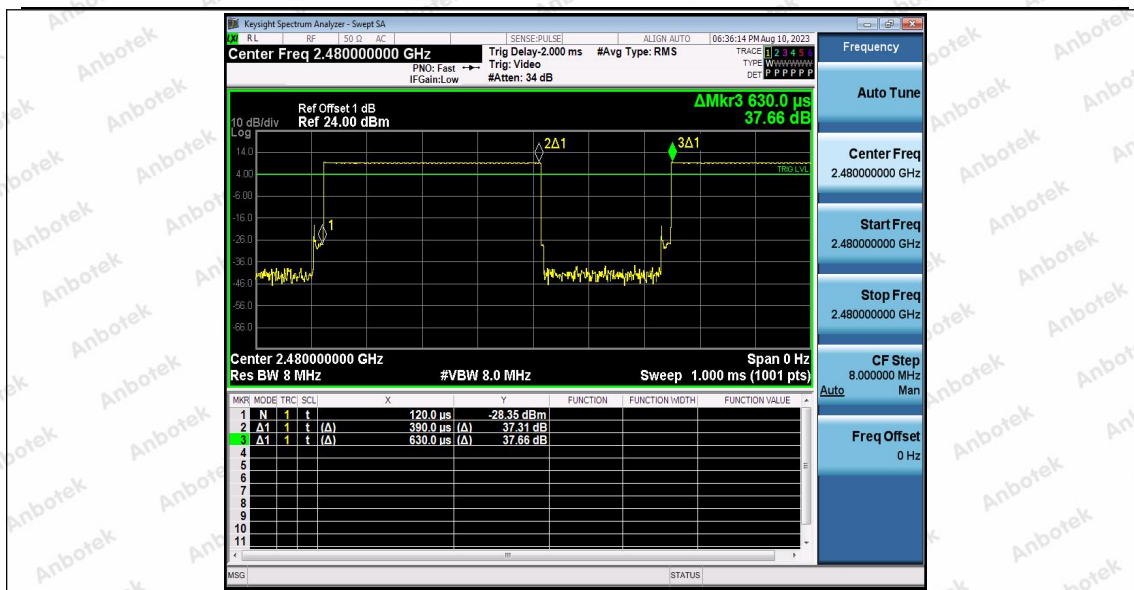
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