

Appendix Test Data

Report No.:	18220WC30102201	Test Sample No.:	1-2-2
Start Test Date:	2023.05.26	Finish Test Date:	2023.05.27
Test Engineer:	Rick Luo	Auditor:	Edward Pan
Temperature:	23.3°C	Relative Humidity:	47%
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	0.688	2401.652	2402.340	0.5	PASS
		2440	0.684	2439.652	2440.336	0.5	PASS
		2480	0.684	2479.660	2480.344	0.5	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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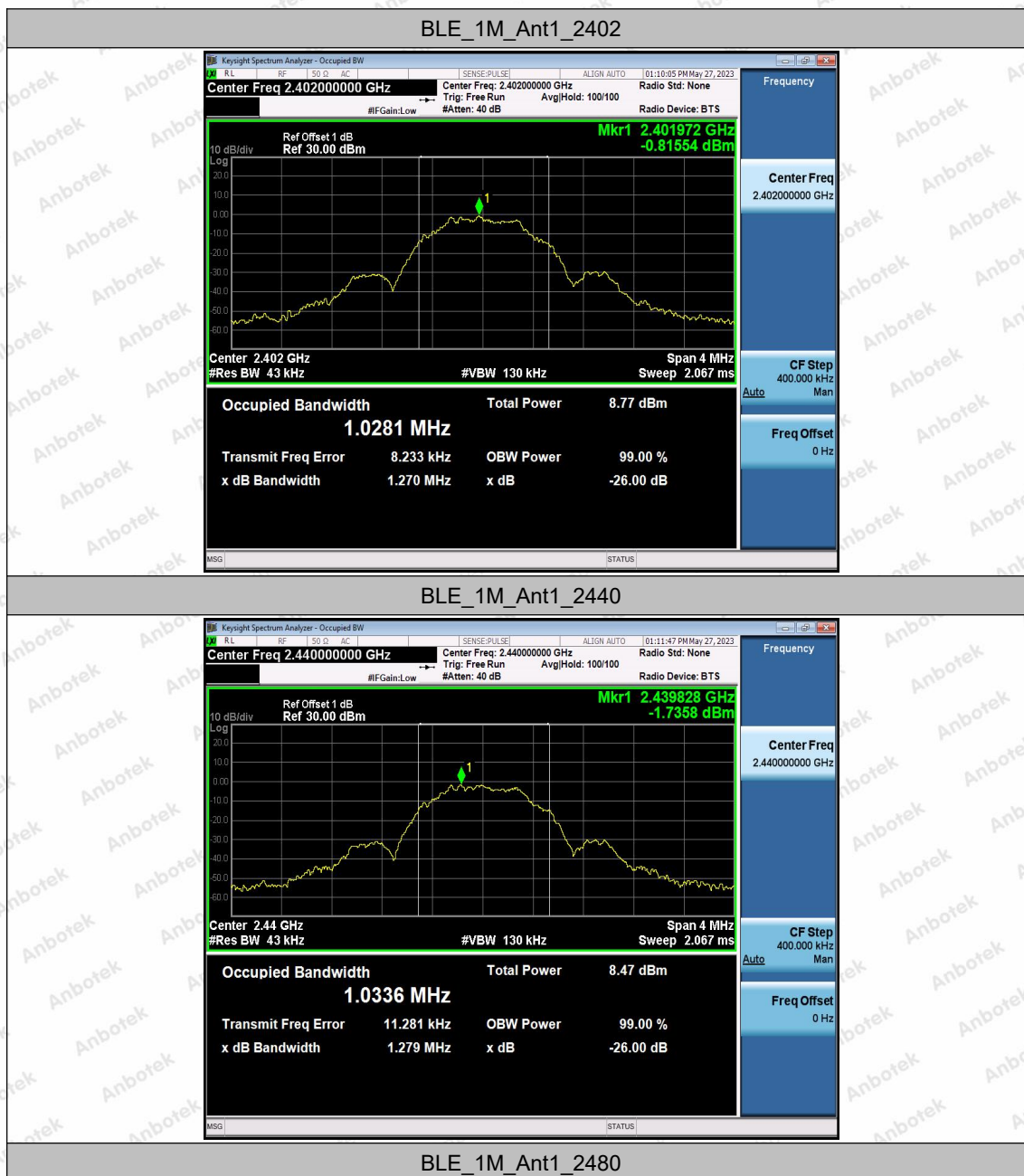
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0281	2401.4942	2402.5223
		2440	1.0336	2439.4945	2440.5281
		2480	1.0309	2479.4957	2480.5266



Test Graphs



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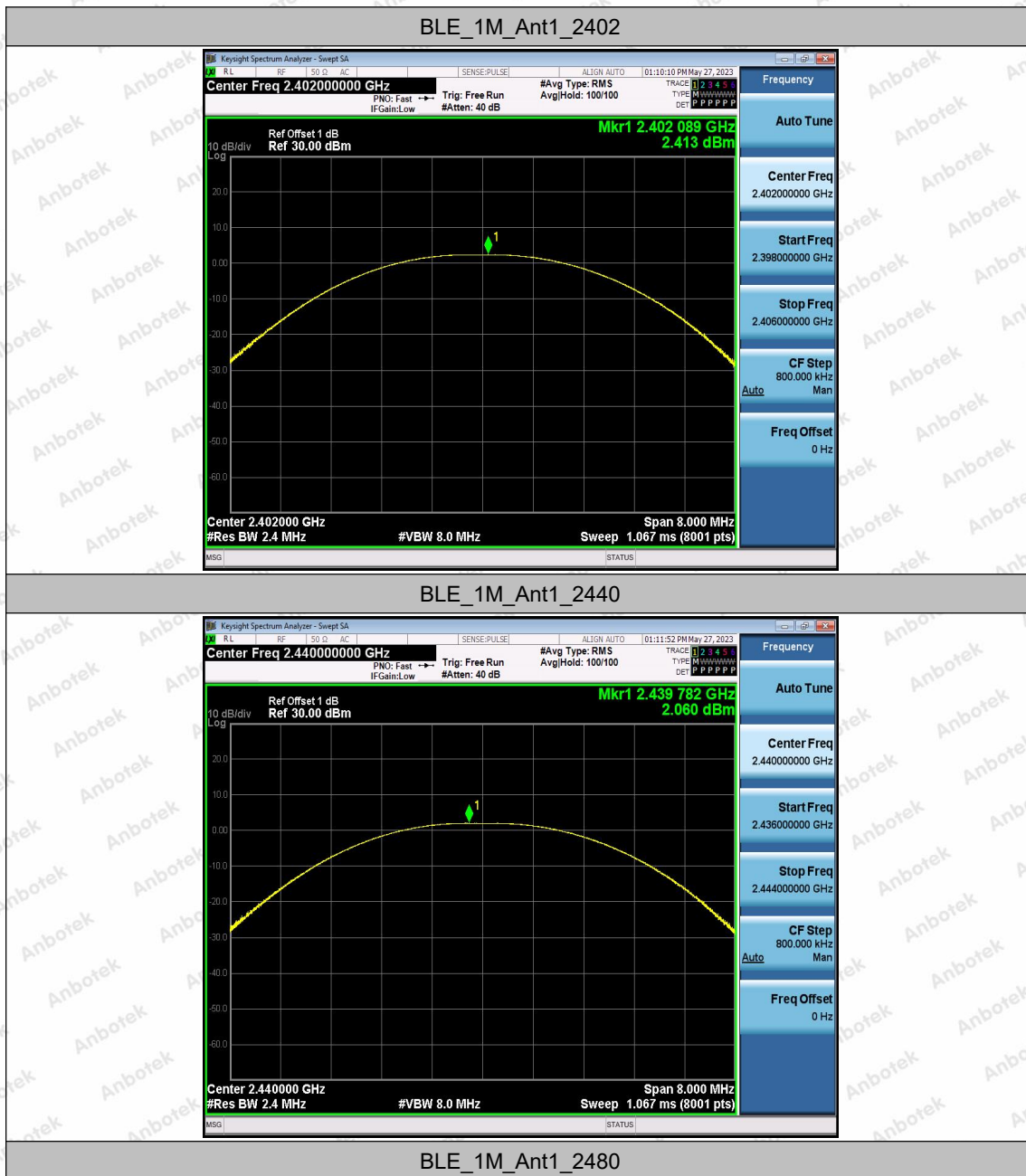
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.41	≤30	PASS
		2440	2.06	≤30	PASS
		2480	1.32	≤30	PASS



Test Graphs Peak



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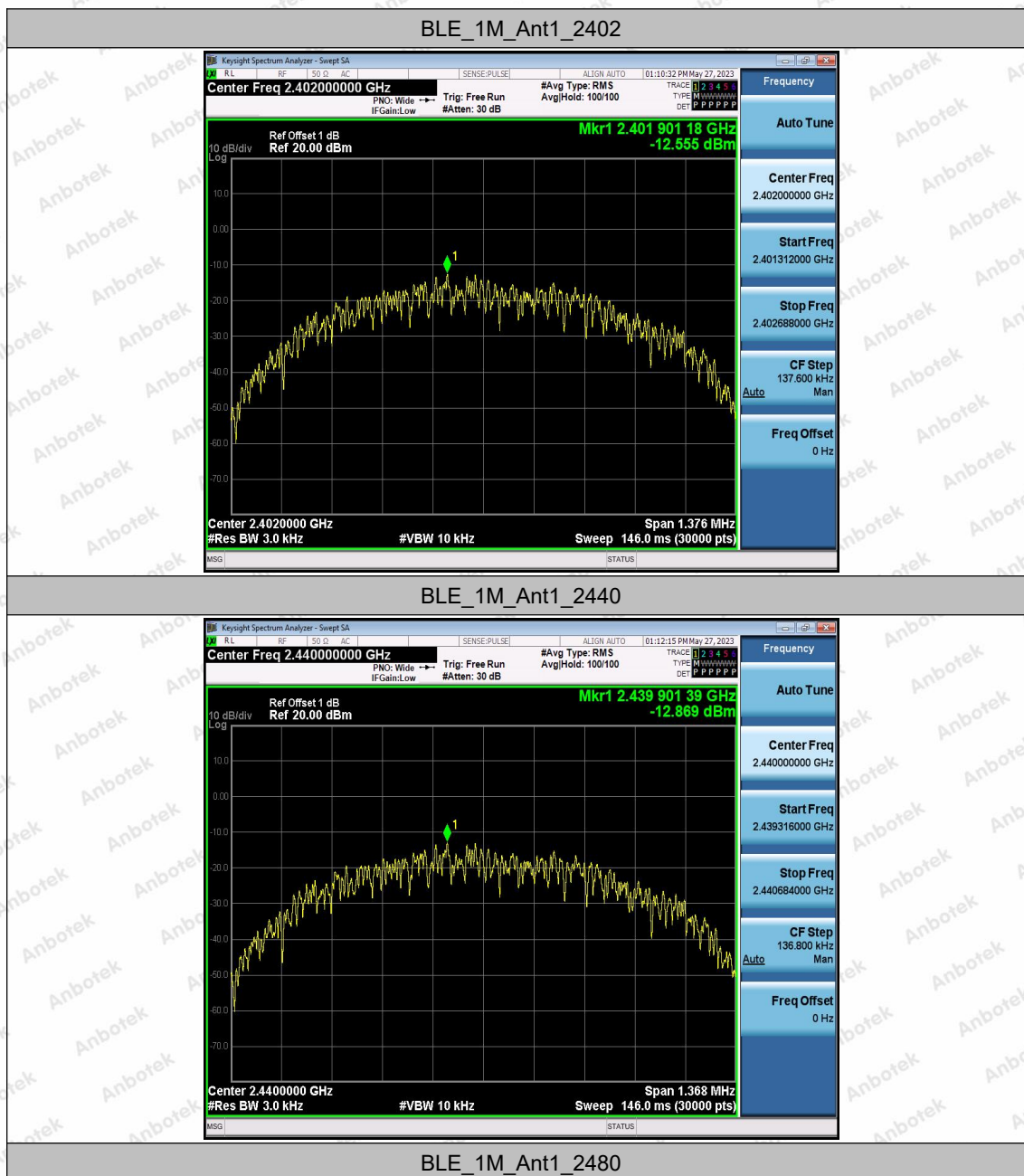
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.56	≤8.00	PASS
		2440	-12.87	≤8.00	PASS
		2480	-13.6	≤8.00	PASS



Test Graphs



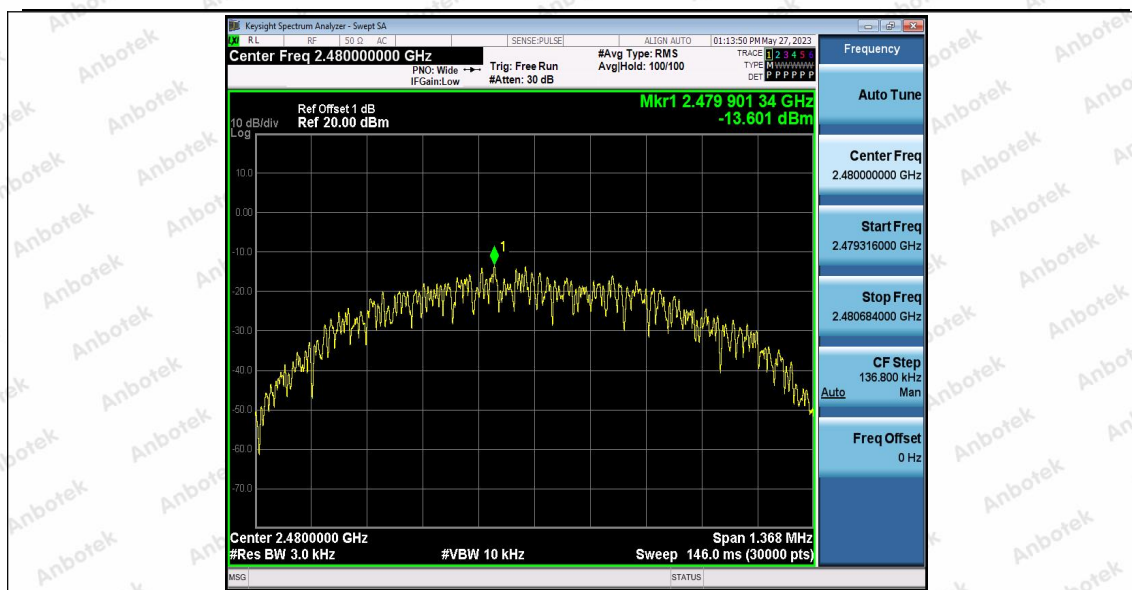
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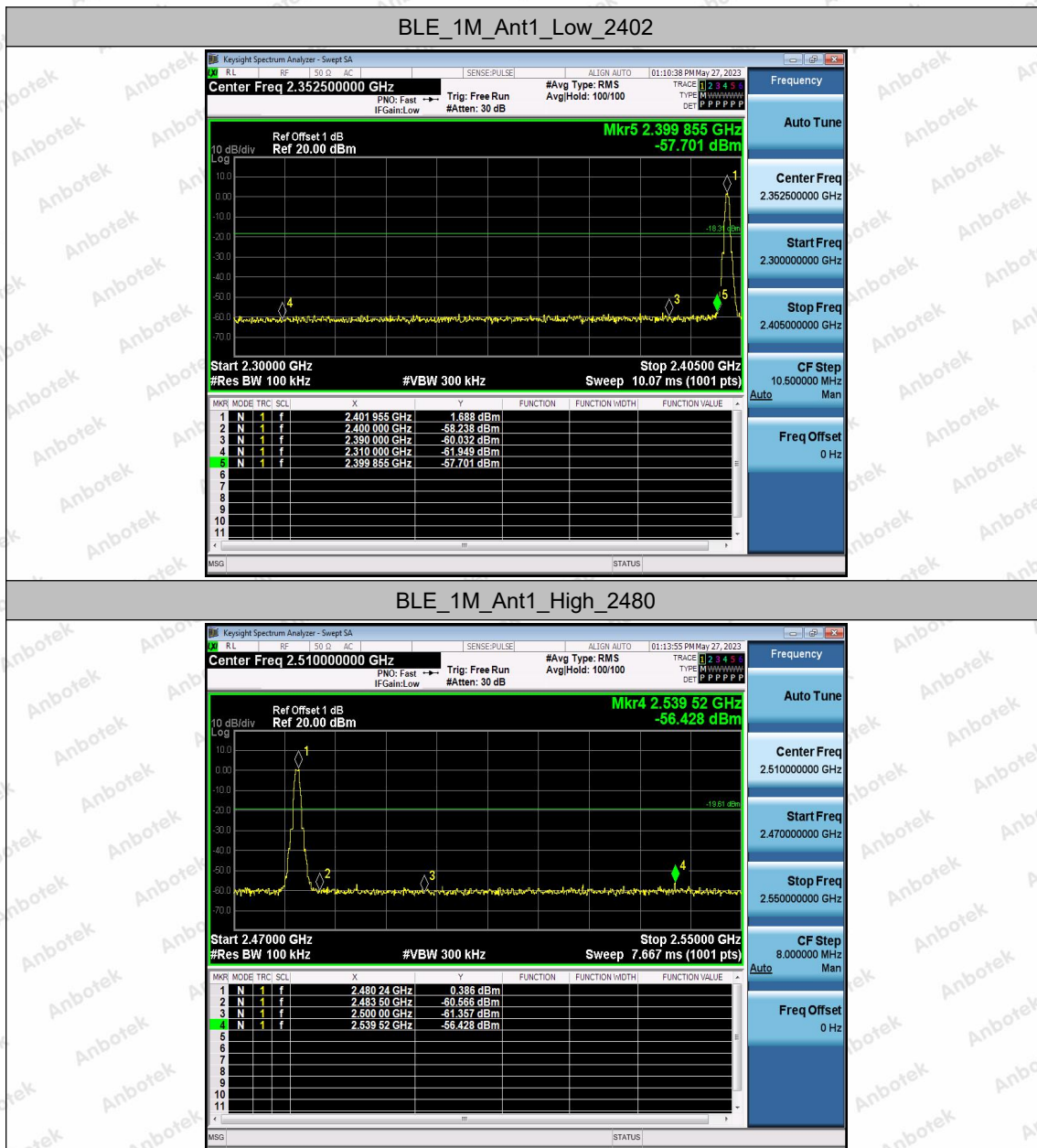
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.69	-57.7	≤-18.31	PASS
		High	2480	0.39	-56.43	≤-19.61	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	1.40	1.40	---	PASS
			30~1000	1.40	-68.42	≤-18.6	PASS
			1000~26500	1.40	-53.33	≤-18.6	PASS
		2440	Reference	0.25	0.25	---	PASS
			30~1000	0.25	-69.11	≤-19.75	PASS
			1000~26500	0.25	-53.26	≤-19.75	PASS
		2480	Reference	0.23	0.23	---	PASS
			30~1000	0.23	-68.86	≤-19.77	PASS
			1000~26500	0.23	-53.71	≤-19.77	PASS



Test Graphs



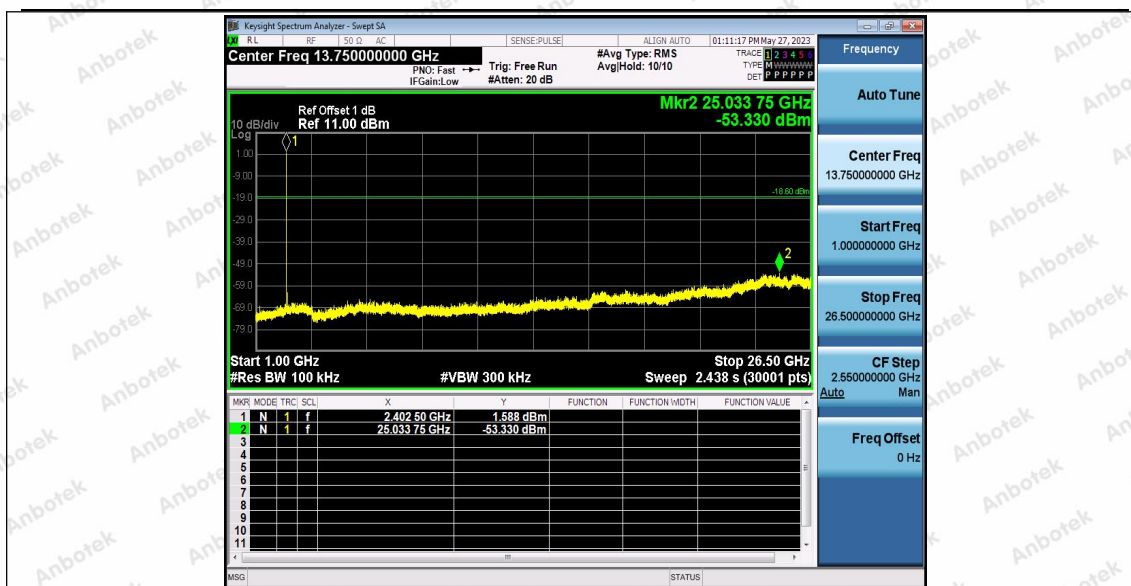
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BLE_1M_Ant1_2440_0~Reference

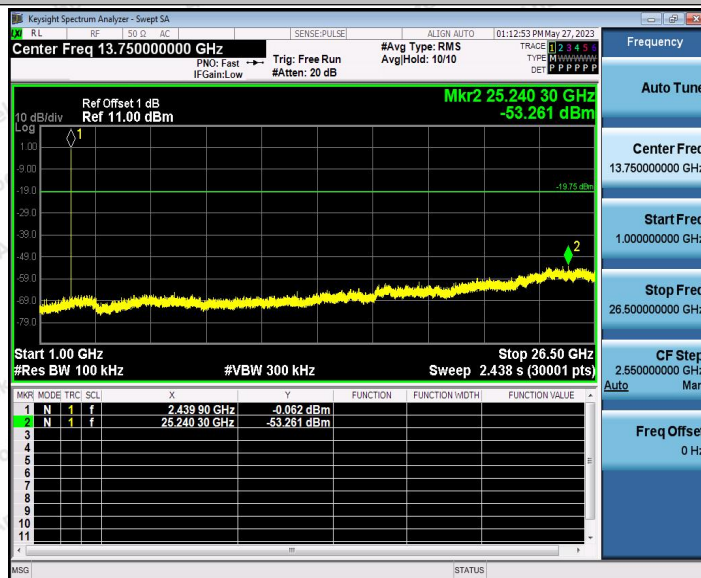


BLE_1M_Ant1_2440_30~1000





BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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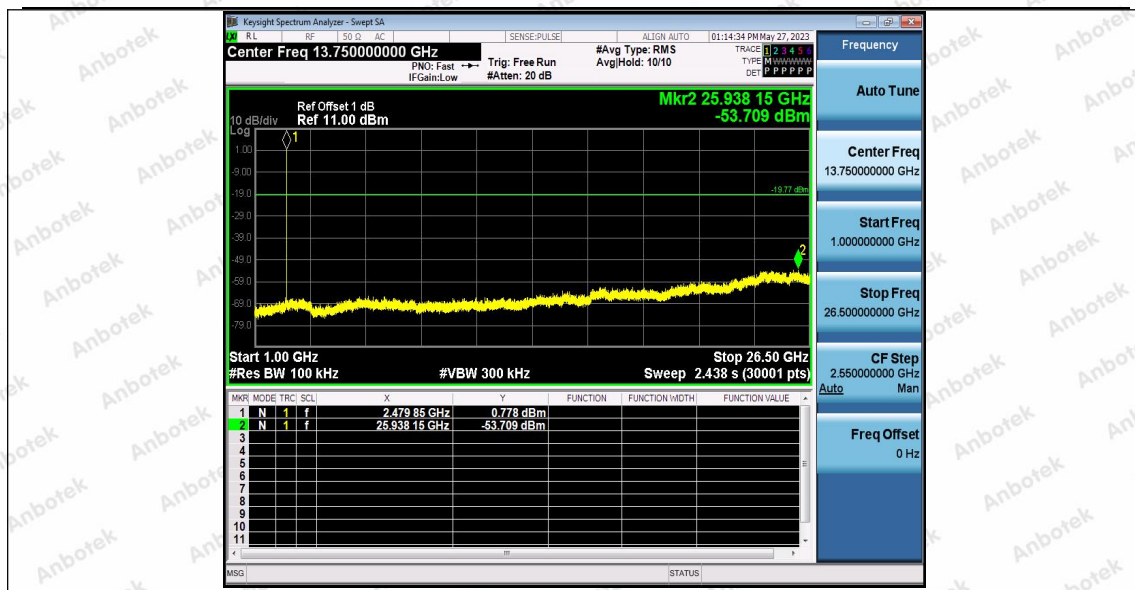
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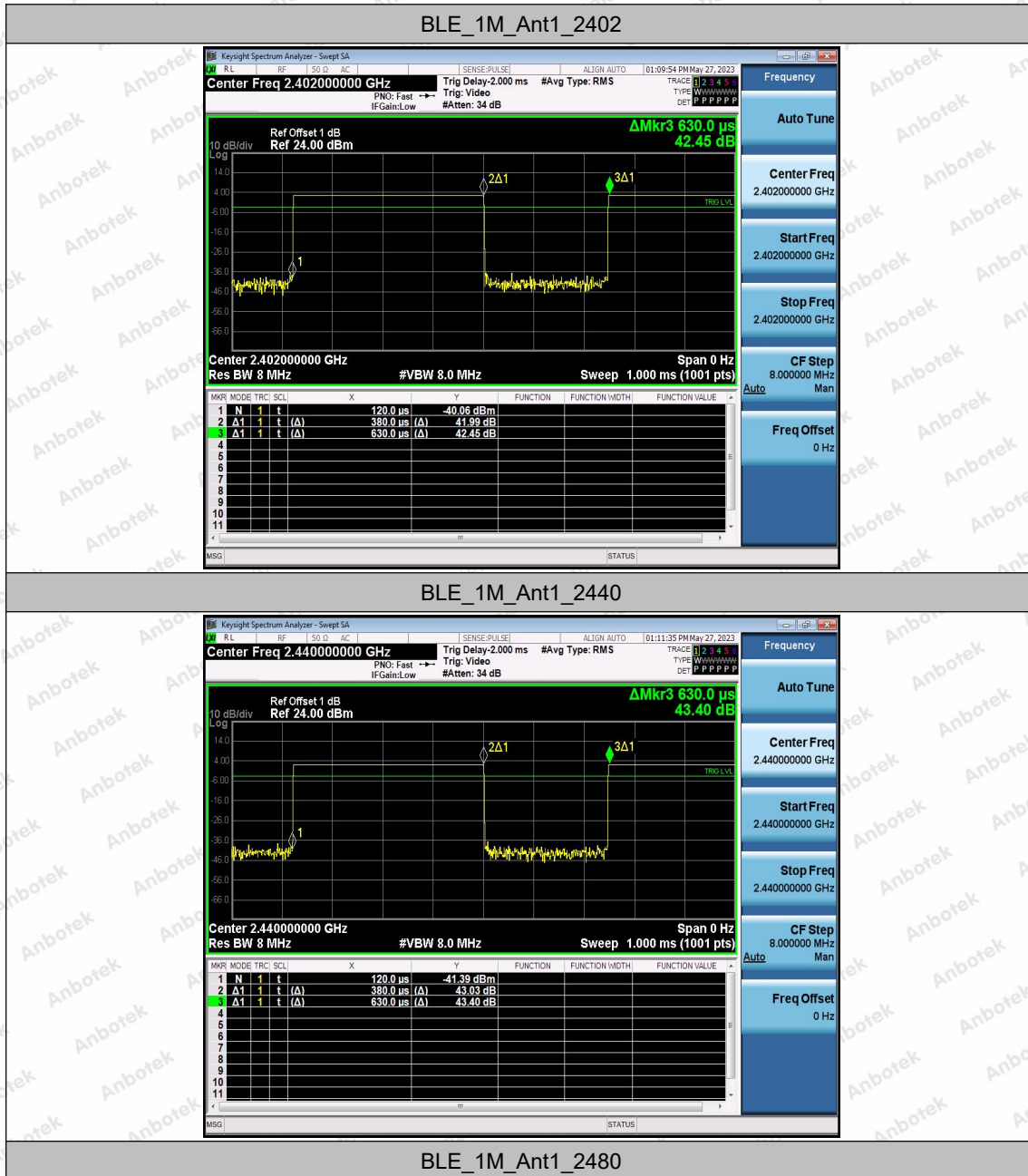
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.38	0.63	60.32	2.20
		2440	0.38	0.63	60.32	2.20
		2480	0.38	0.63	60.32	2.20



Test Graphs



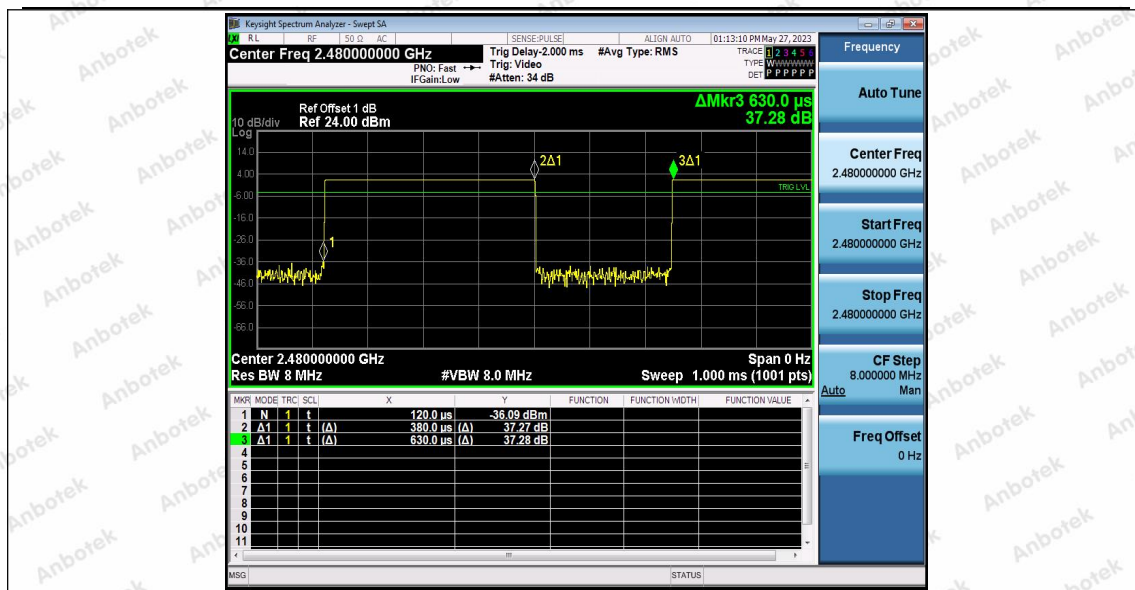
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