

Appendix Test Data

Report No.:	18220WC30127301	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:	25.1°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	0.700	2401.640	2402.340	0.5	PASS
		2440	0.664	2439.652	2440.316	0.5	PASS
		2480	0.660	2479.664	2480.324	0.5	PASS
BLE_2M	Ant1	2402	1.108	2401.448	2402.556	0.5	PASS
		2440	1.044	2439.500	2440.544	0.5	PASS
		2480	0.964	2479.440	2480.404	0.5	PASS



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0303	2401.4831	2402.5134
		2440	1.0287	2439.4823	2440.5110
		2480	1.0312	2479.4801	2480.5113
BLE_2M	Ant1	2402	2.0625	2400.9896	2403.0521
		2440	2.0578	2439.0012	2441.0590
		2480	2.0624	2478.9870	2481.0494



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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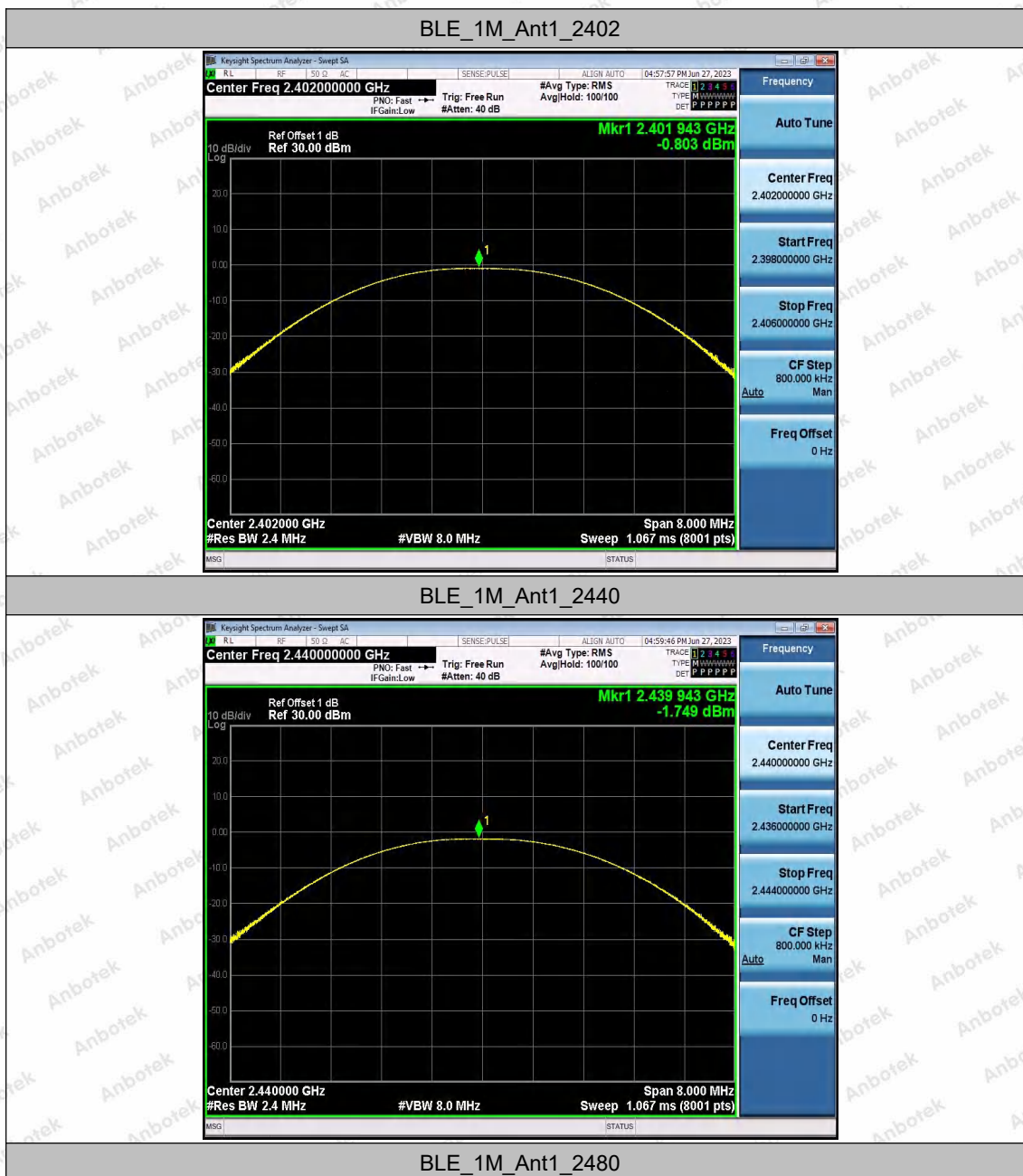
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.80	≤30	PASS
		2440	-1.75	≤30	PASS
		2480	-3.18	≤30	PASS
BLE_2M	Ant1	2402	-0.67	≤30	PASS
		2440	-1.60	≤30	PASS
		2480	-3.04	≤30	PASS



Test Graphs Peak



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

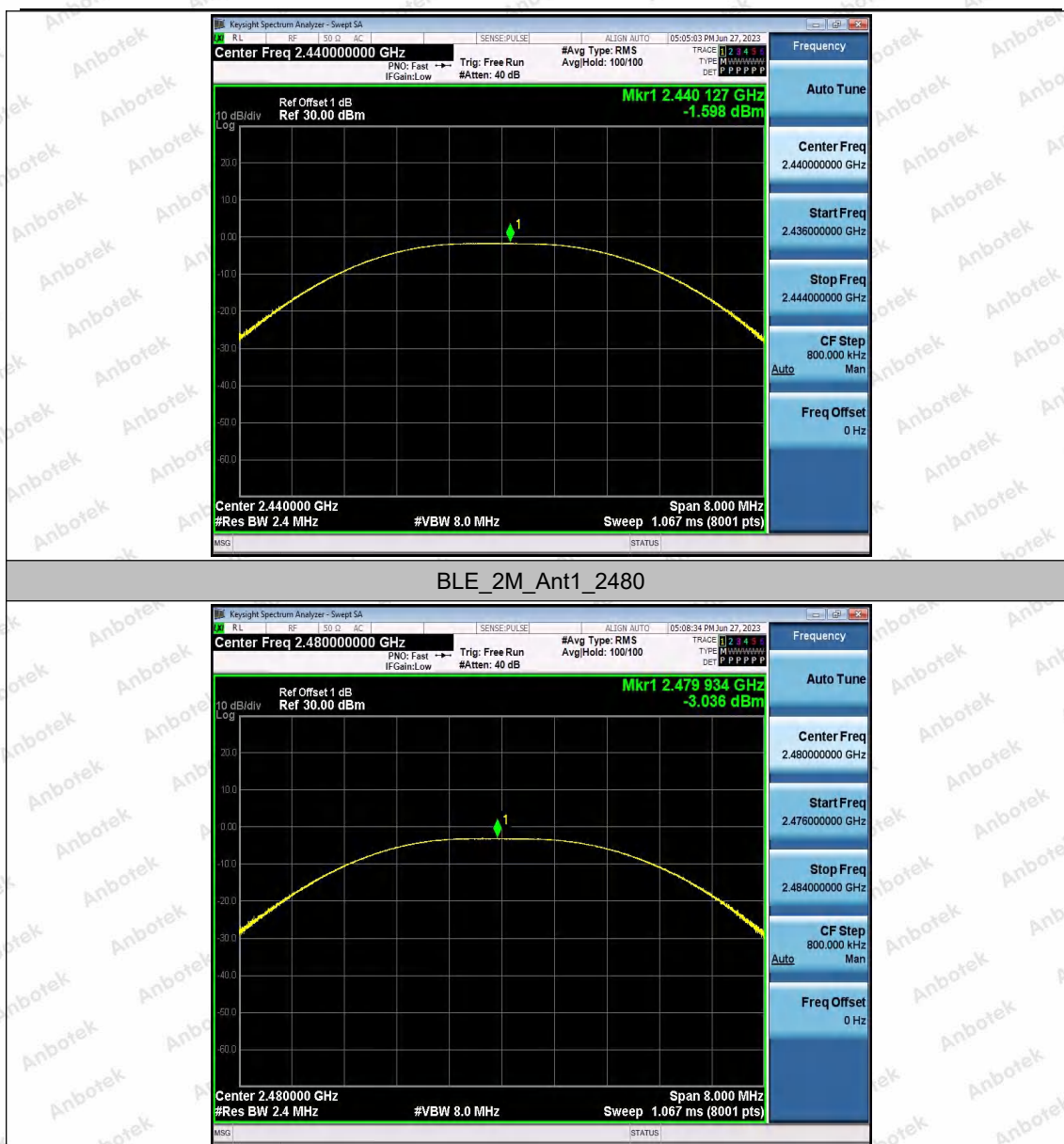
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Appendix D: Maximum power spectral density

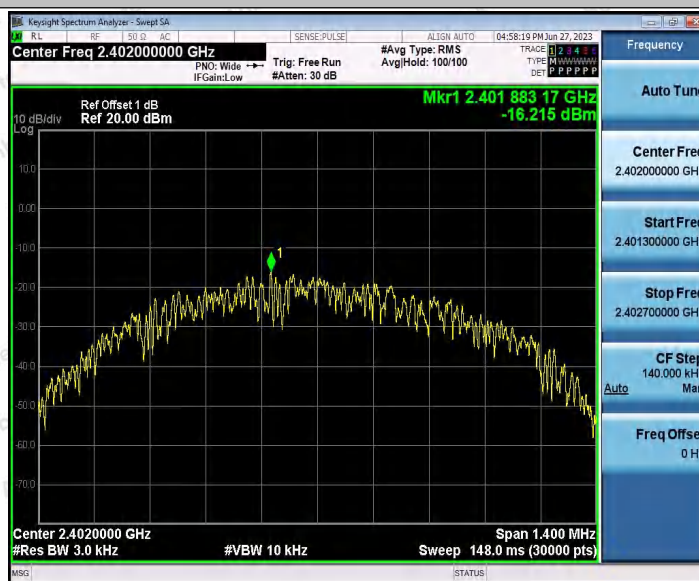
Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.22	≤8.00	PASS
		2440	-16.64	≤8.00	PASS
		2480	-18.15	≤8.00	PASS
BLE_2M	Ant1	2402	-19.79	≤8.00	PASS
		2440	-20.98	≤8.00	PASS
		2480	-20.76	≤8.00	PASS

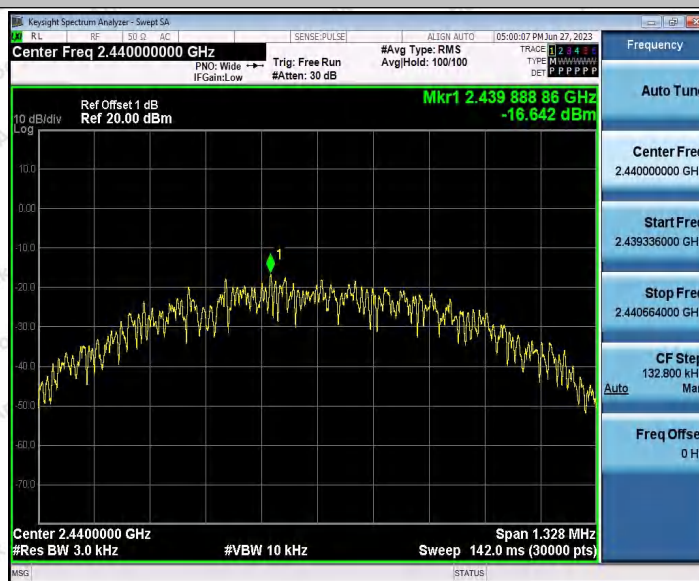


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

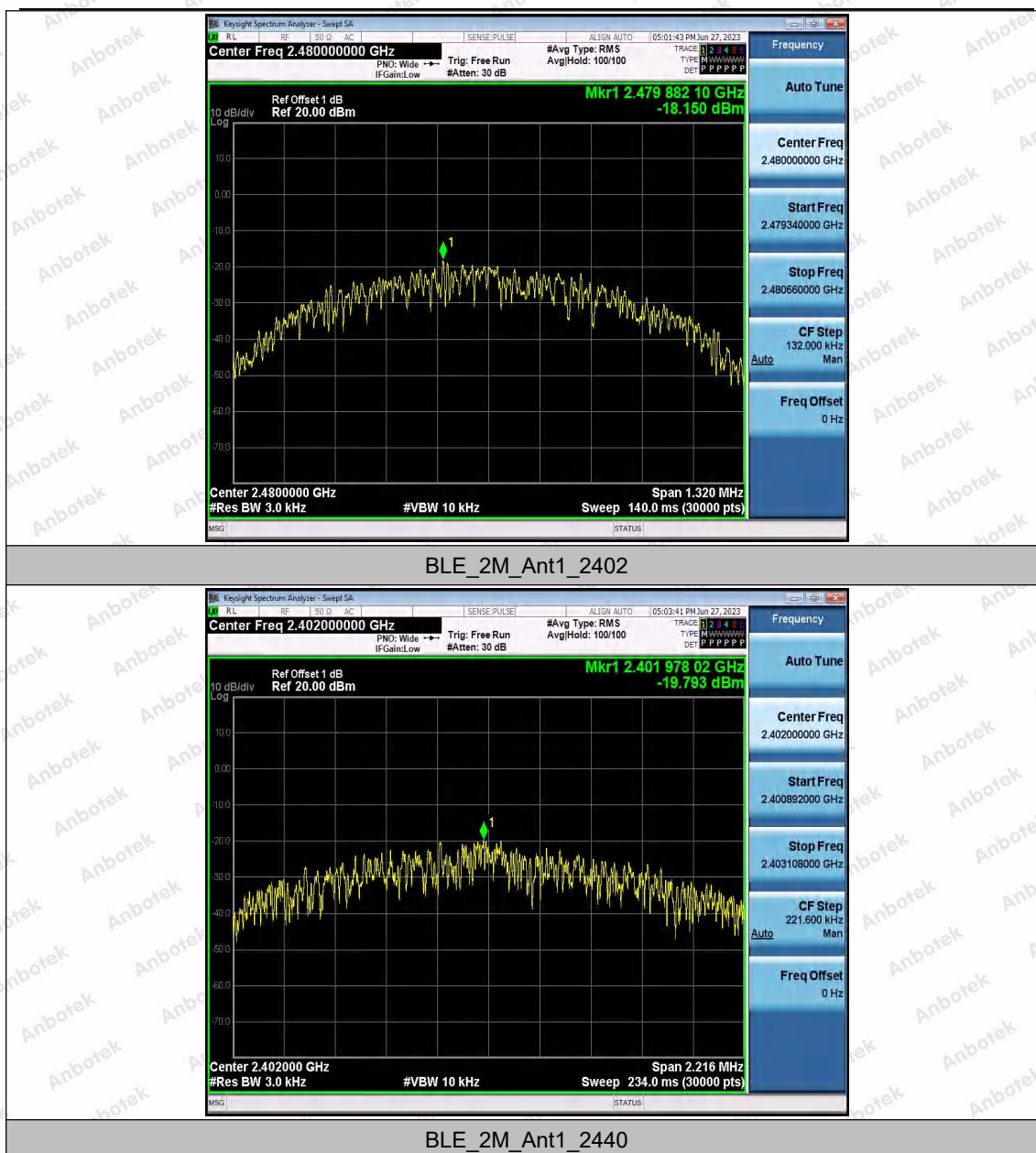
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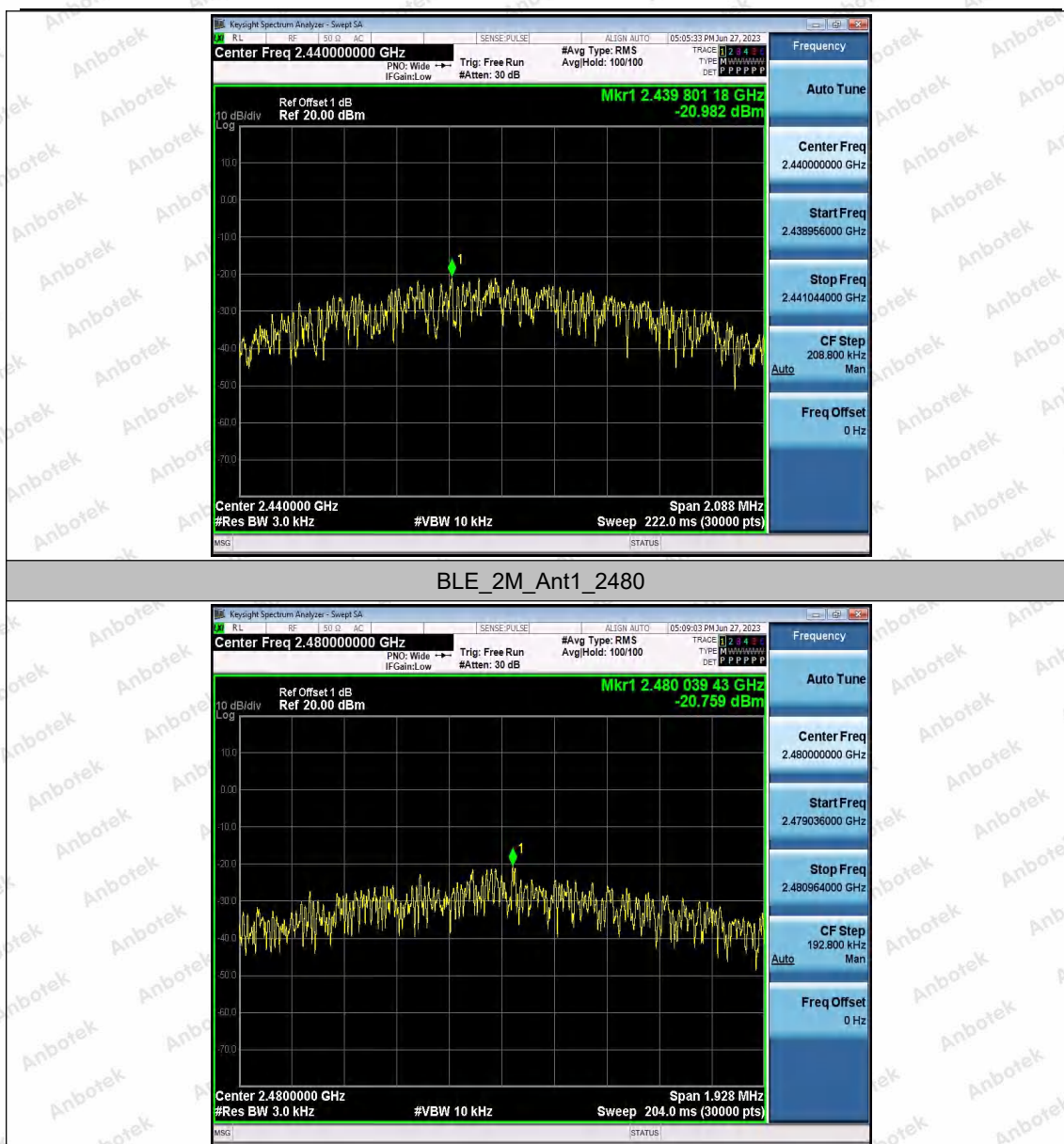
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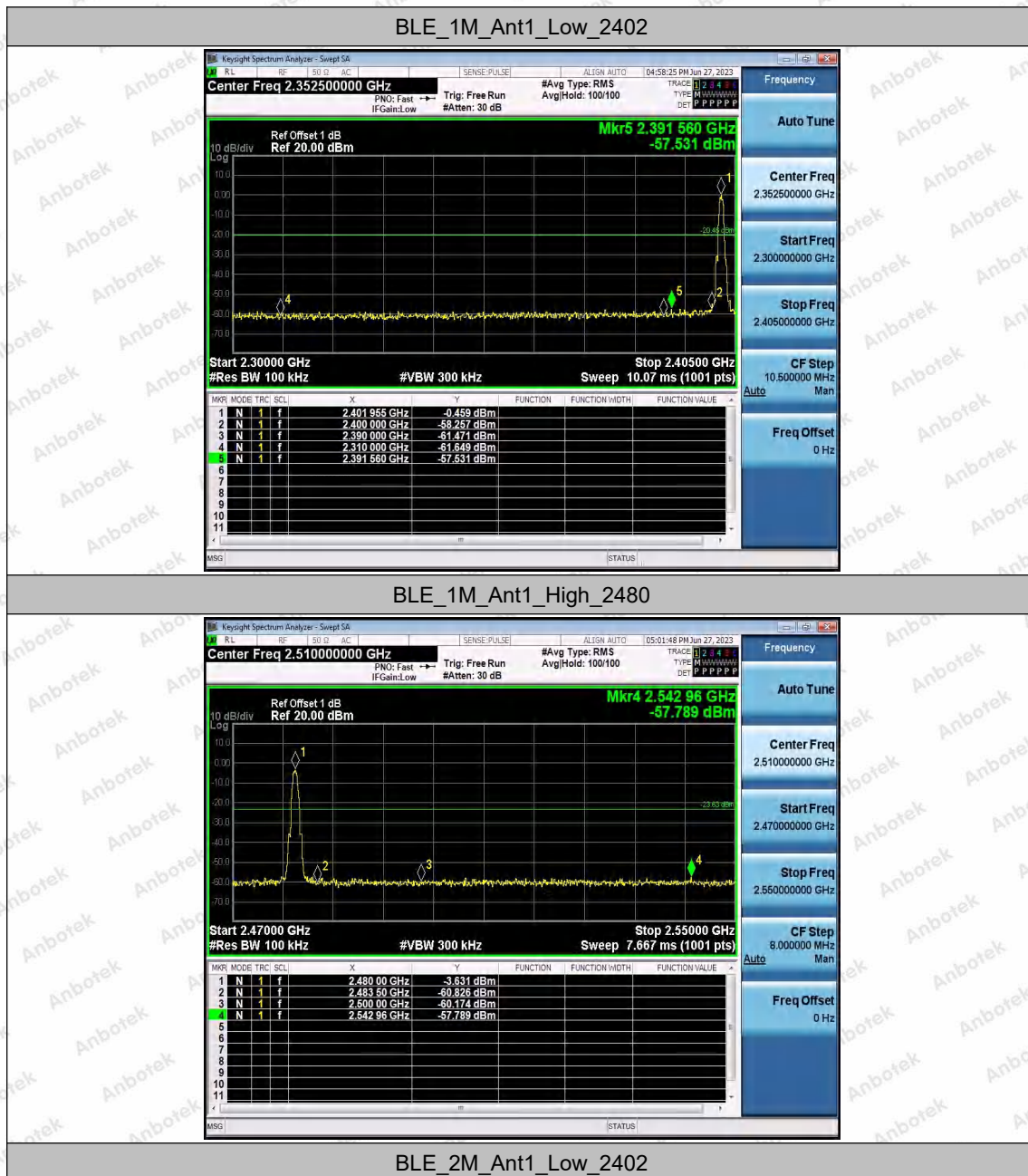
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.46	-57.53	≤-20.46	PASS
		High	2480	-3.63	-57.79	≤-23.63	PASS
BLE_2M	Ant1	Low	2402	-1.58	-33.92	≤-21.58	PASS
		High	2480	-3.68	-57.16	≤-23.68	PASS



Test Graphs



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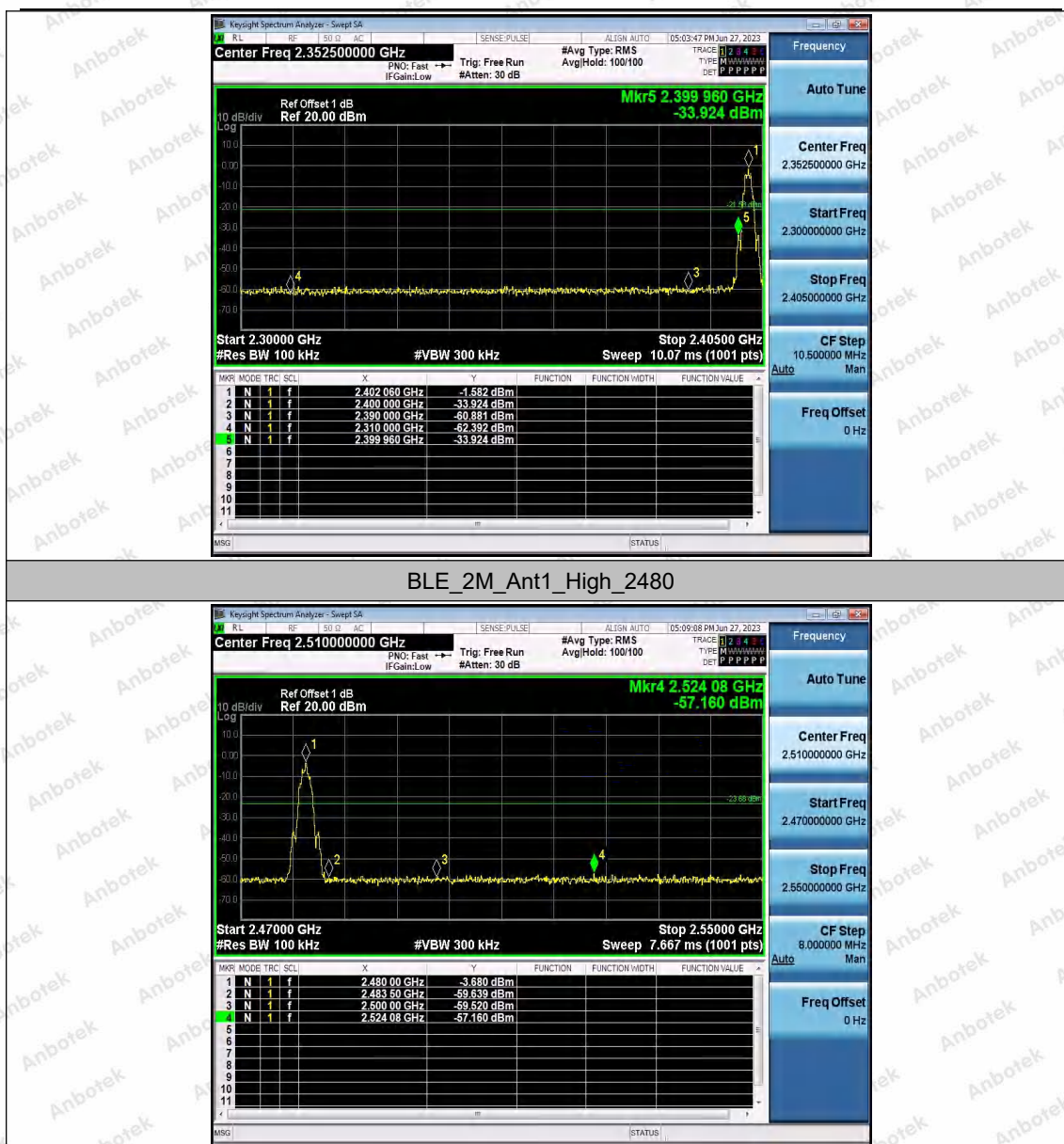


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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.80	-1.80	---	PASS
			30~1000	-1.80	-69.34	≤-21.8	PASS
			1000~26500	-1.80	-52.53	≤-21.8	PASS
		2440	Reference	-3.06	-3.06	---	PASS
			30~1000	-3.06	-69.1	≤-23.06	PASS
			1000~26500	-3.06	-53.39	≤-23.06	PASS
		2480	Reference	-4.31	-4.31	---	PASS
			30~1000	-4.31	-69.46	≤-24.31	PASS
			1000~26500	-4.31	-53.65	≤-24.31	PASS
BLE_2M	Ant1	2402	Reference	-4.67	-4.67	---	PASS
			30~1000	-4.67	-68.97	≤-24.67	PASS
			1000~26500	-4.67	-52.73	≤-24.67	PASS
		2440	Reference	-2.45	-2.45	---	PASS
			30~1000	-2.45	-69.77	≤-22.45	PASS
			1000~26500	-2.45	-53.32	≤-22.45	PASS
		2480	Reference	-3.54	-3.54	---	PASS
			30~1000	-3.54	-69.77	≤-23.54	PASS
			1000~26500	-3.54	-53.51	≤-23.54	PASS

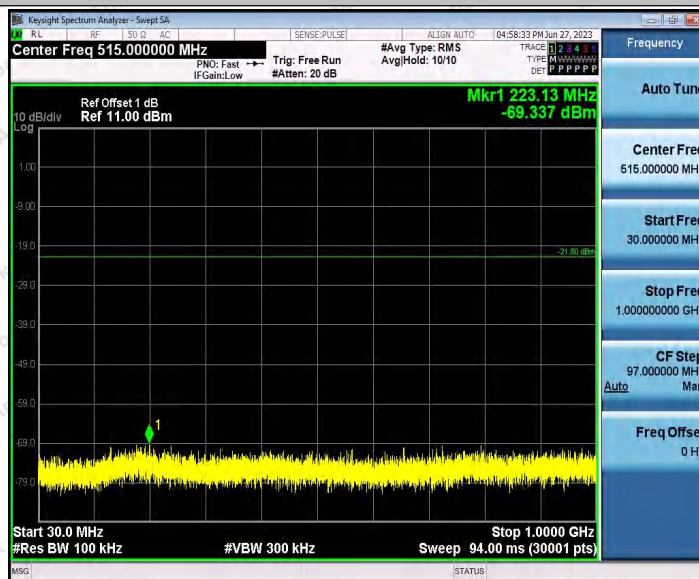


Test Graphs

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

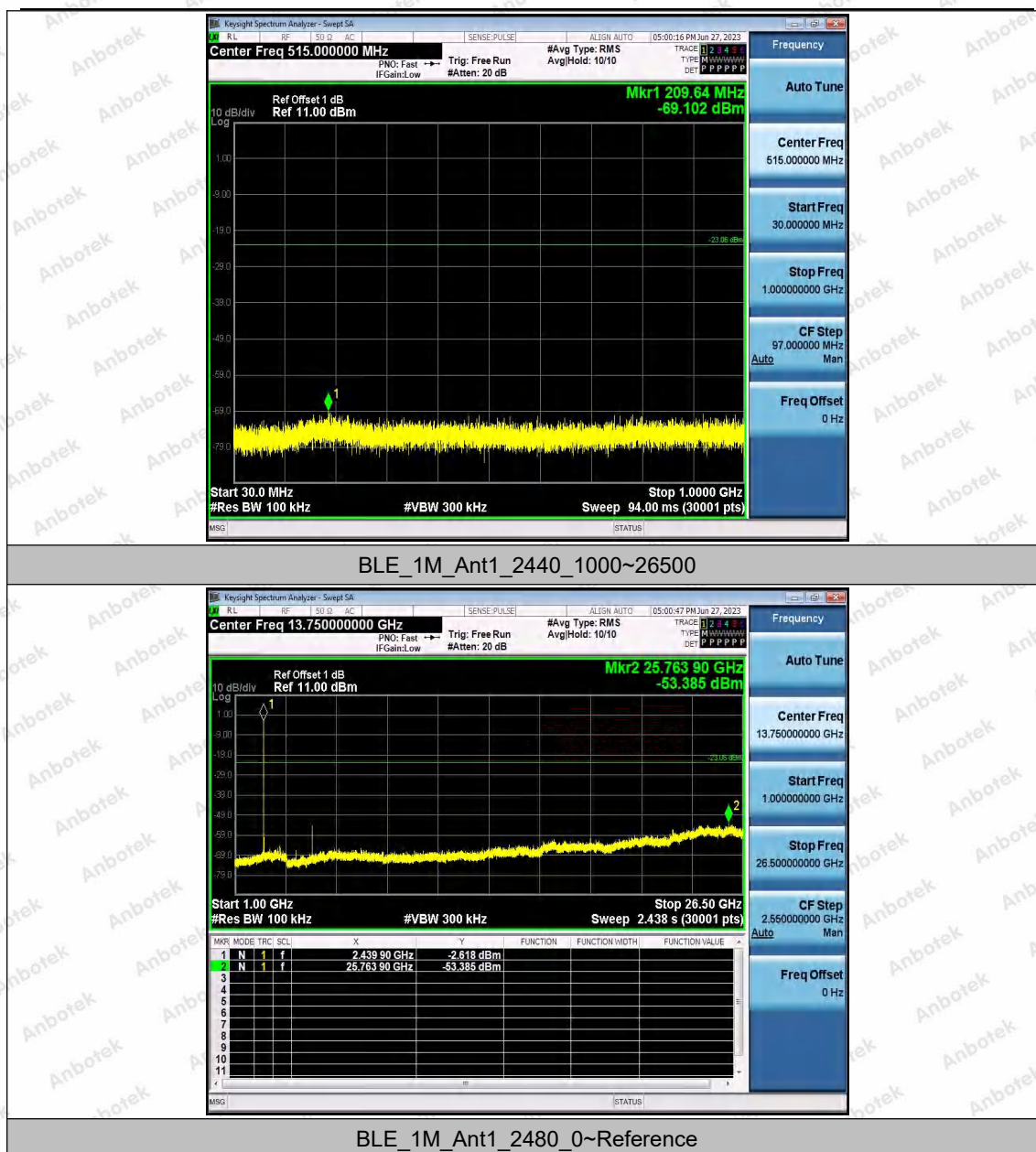
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BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000

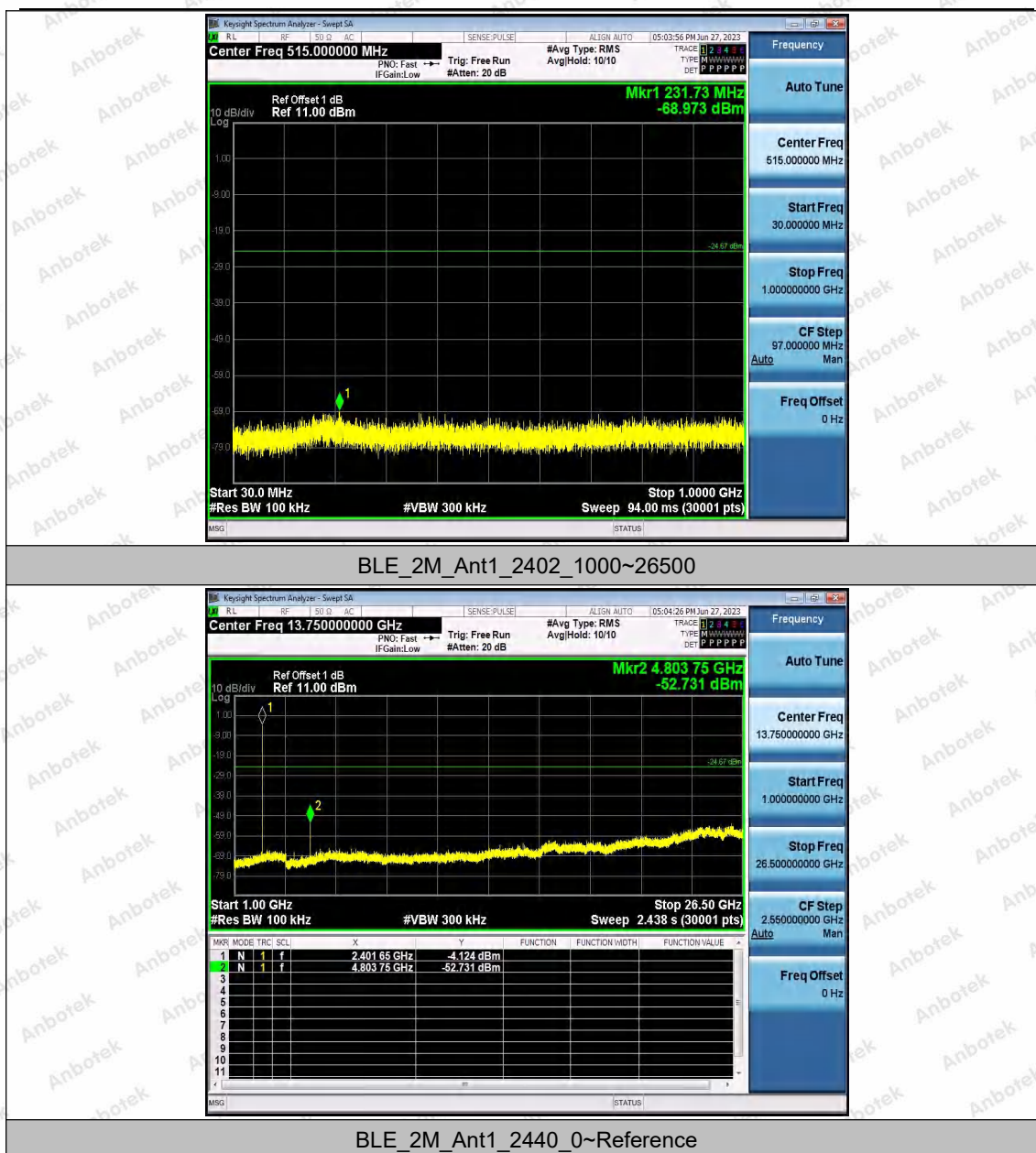
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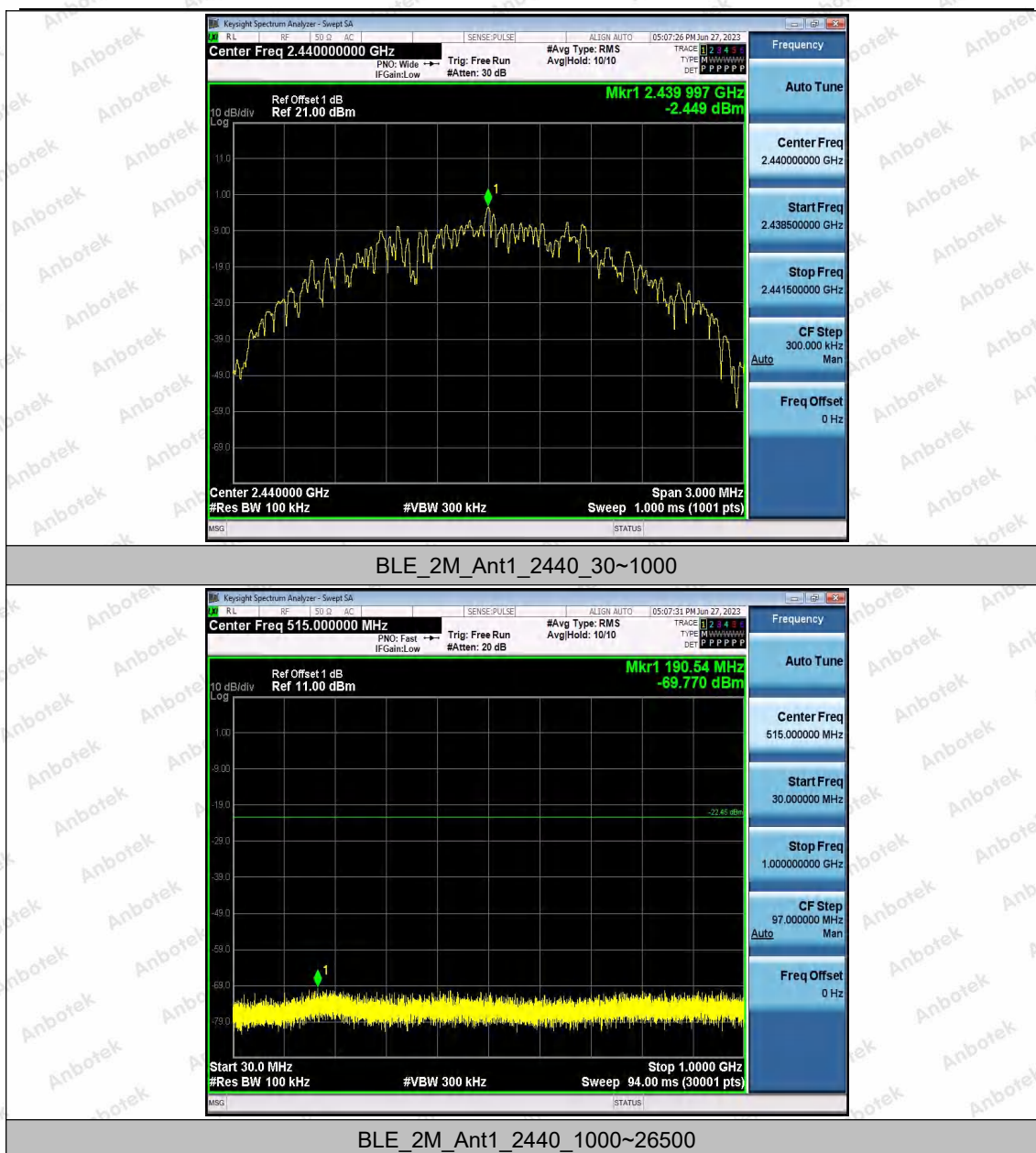
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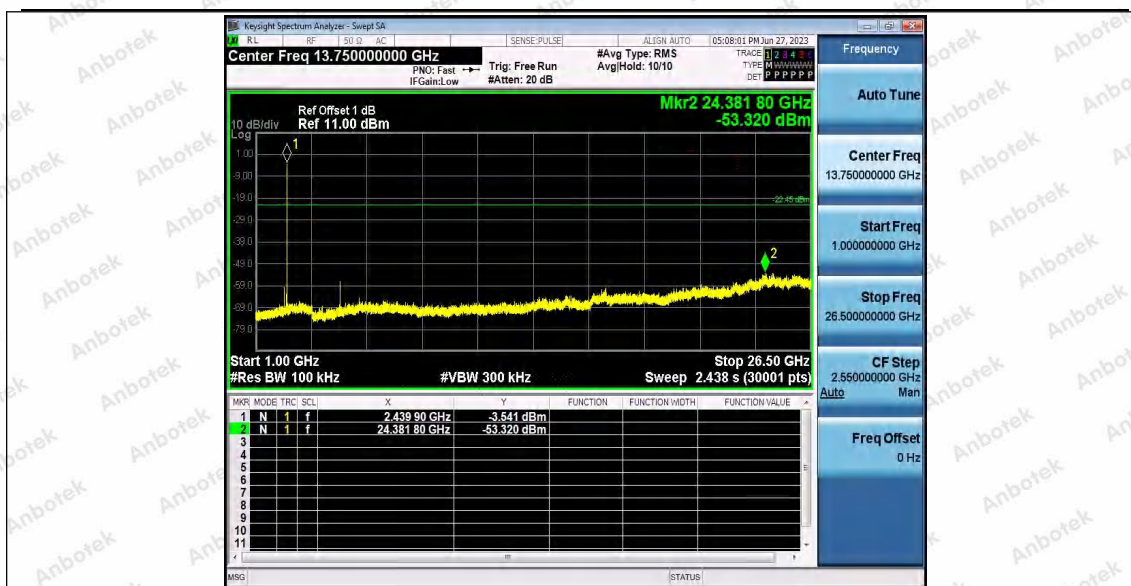
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000

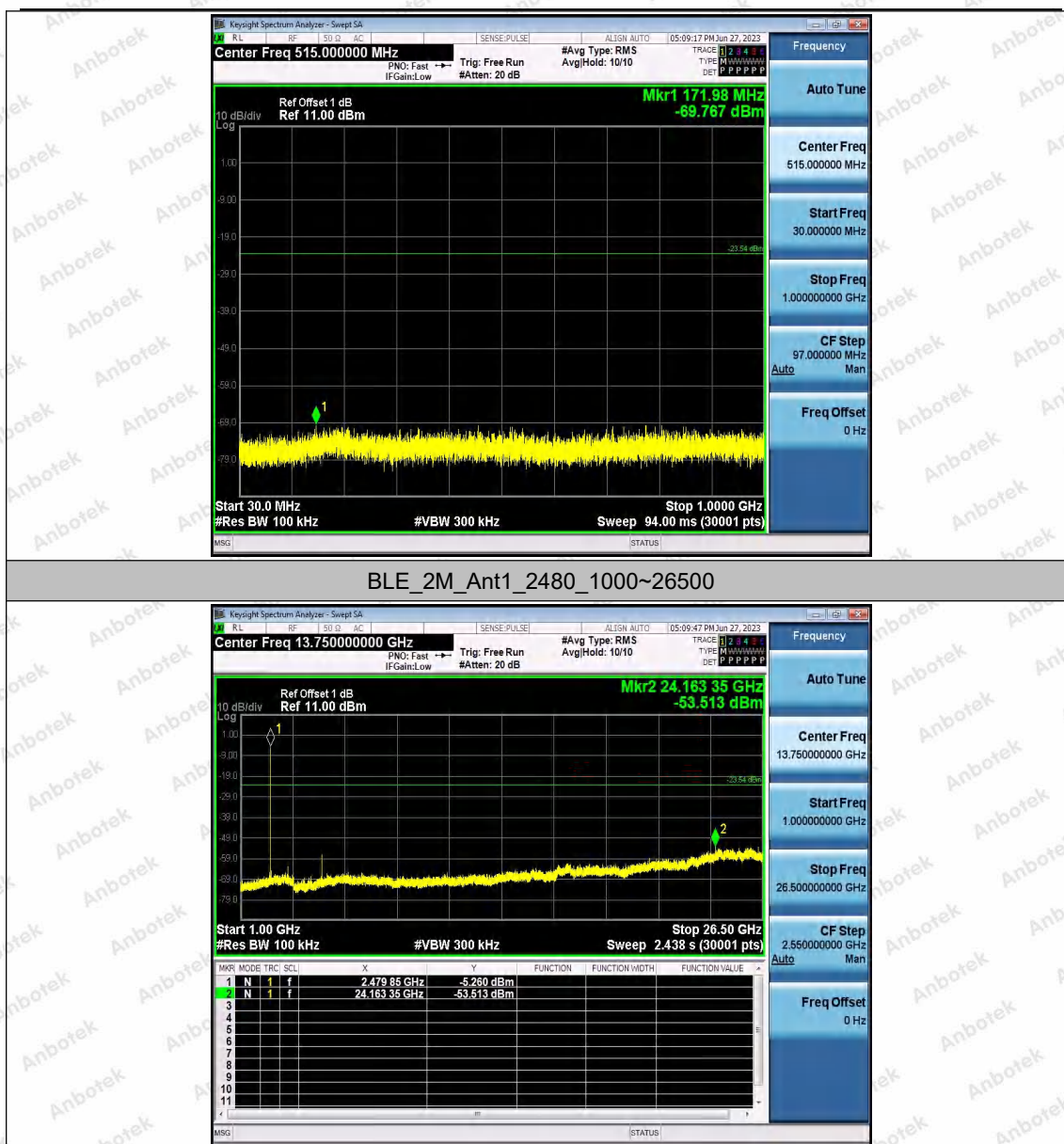
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Appendix G: Duty Cycle

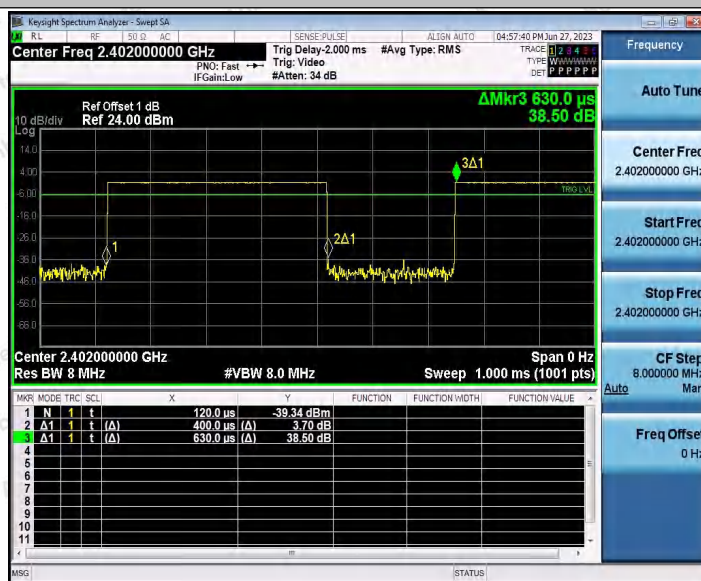
Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.40	0.63	63.49	1.97
		2440	0.40	0.63	63.49	1.97
		2480	0.40	0.63	63.49	1.97
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

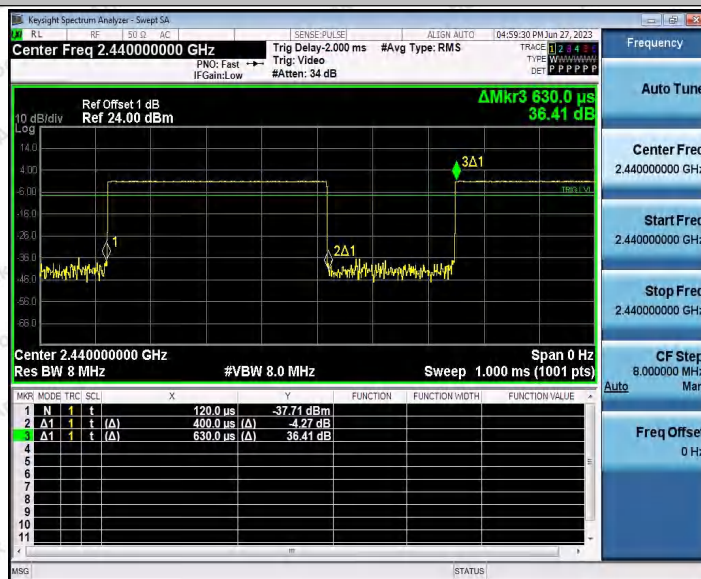


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

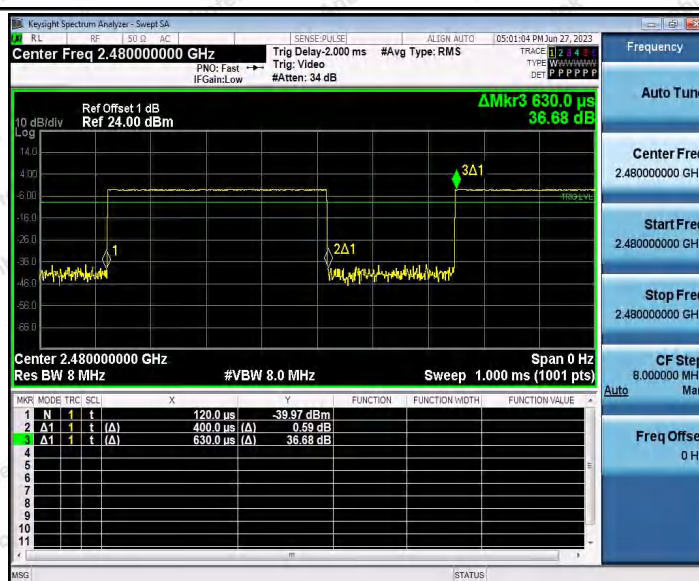
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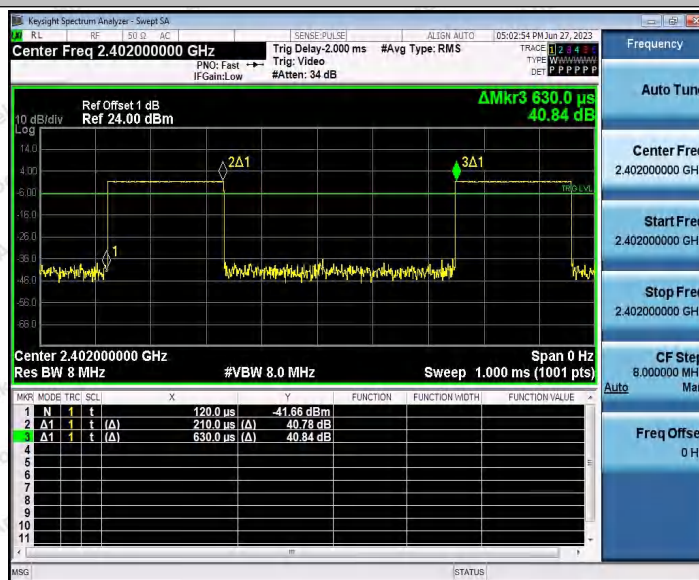


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

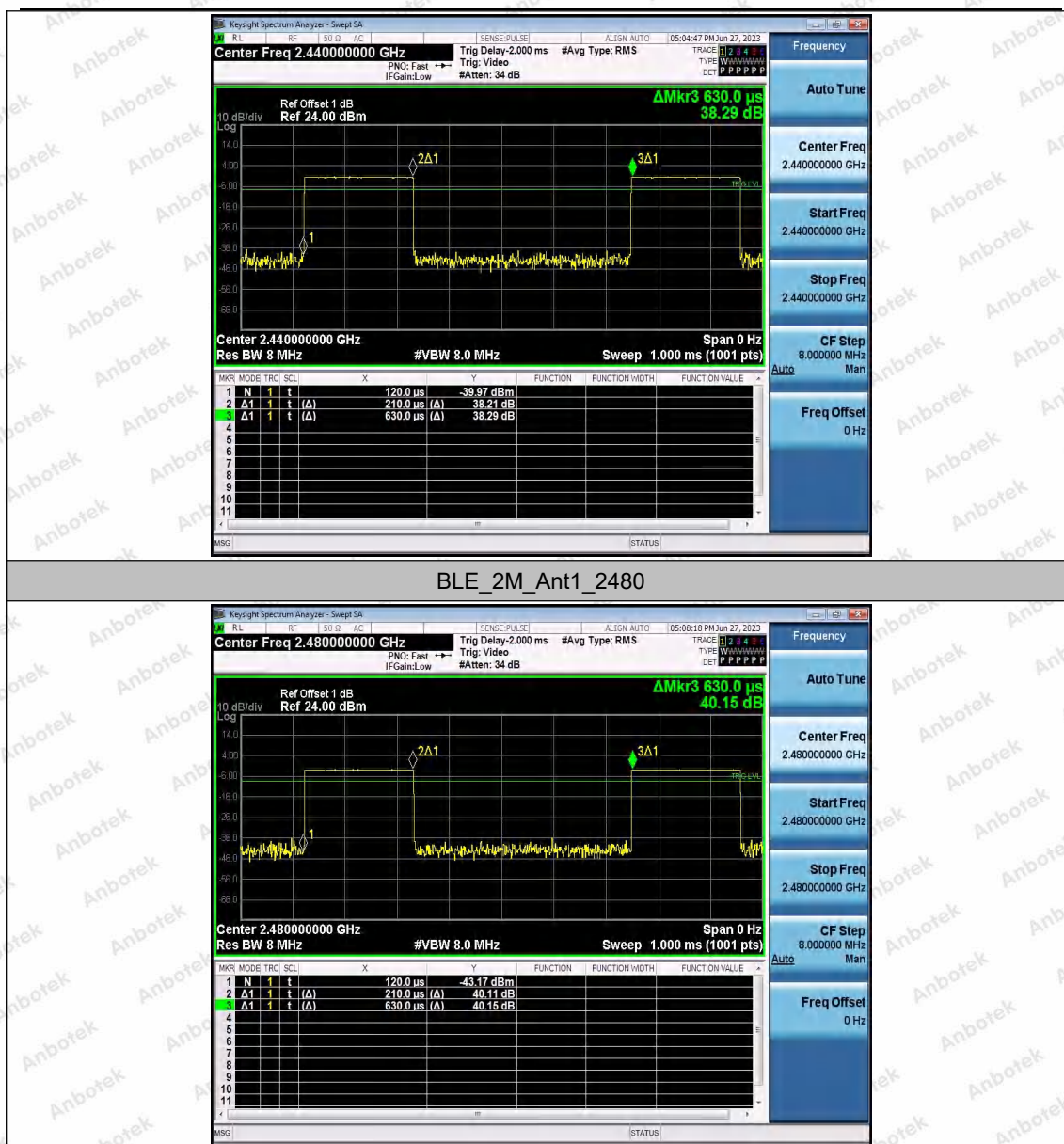
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