

Appendix Test Data

Report No.:	18220WC20263902	Test Sample No.:	1-2-2
Start Test Date:	2022.11.15	Finish Test Date:	2022.11.24
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	26.3C°	Relative Humidity:	47 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.636	2401.664	2402.300	0.5	PASS
		2440	0.628	2439.660	2440.288	0.5	PASS
		2480	0.652	2479.652	2480.304	0.5	PASS
BLE_2M	Ant1	2402	1.092	2401.436	2402.528	0.5	PASS
		2440	1.236	2439.316	2440.552	0.5	PASS
		2480	1.116	2479.436	2480.552	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

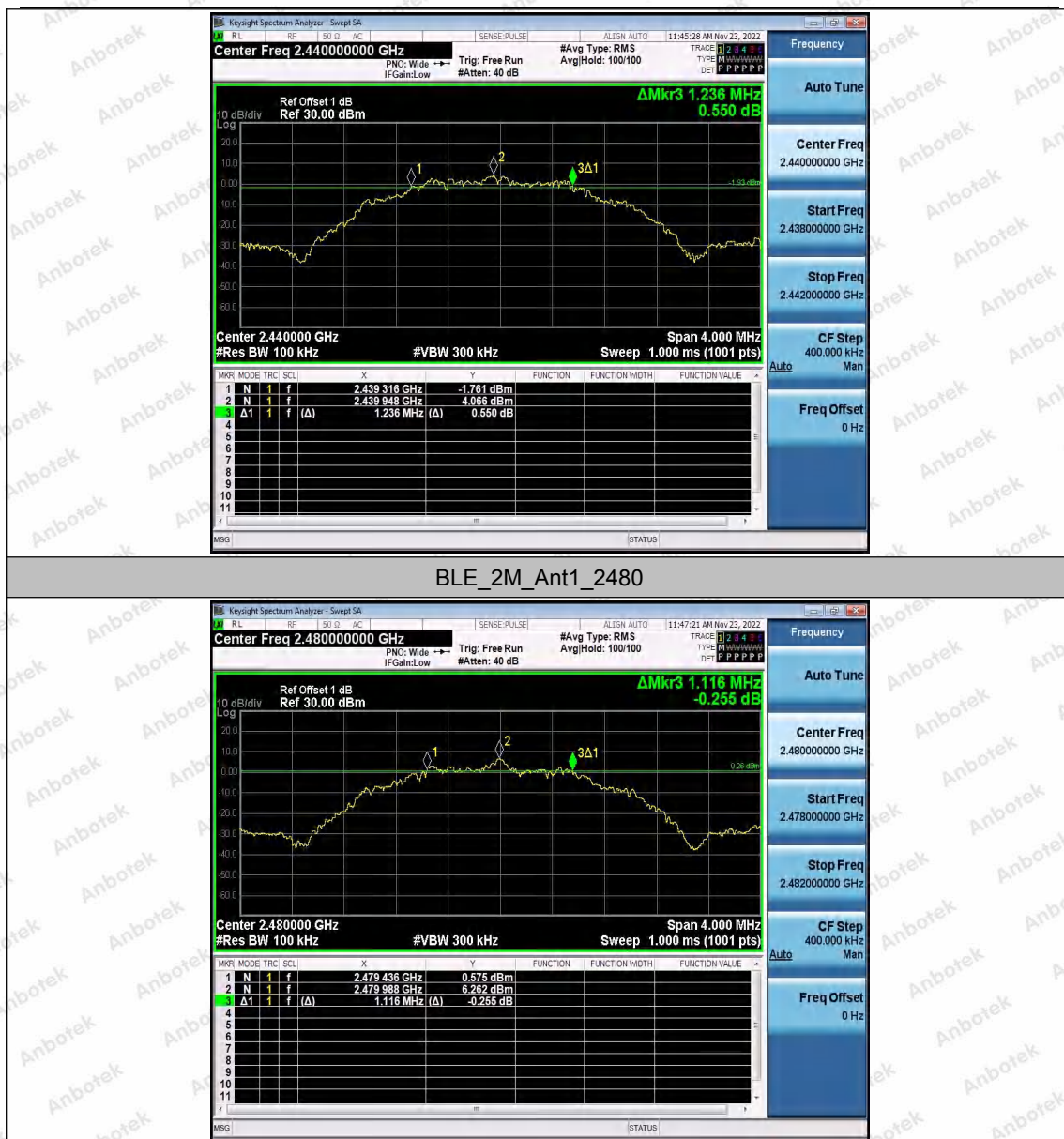
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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0377	2401.4686	2402.5063
		2440	1.0336	2439.4668	2440.5004
		2480	1.0248	2479.4694	2480.4942
BLE_2M	Ant1	2402	2.0517	2400.9804	2403.0321
		2440	2.0527	2438.9696	2441.0223
		2480	2.0503	2478.9741	2481.0244



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	6.13	≤30	PASS
		2440	6.02	≤30	PASS
		2480	6.43	≤30	PASS
BLE_2M	Ant1	2402	6.21	≤30	PASS
		2440	6.02	≤30	PASS
		2480	6.45	≤30	PASS



Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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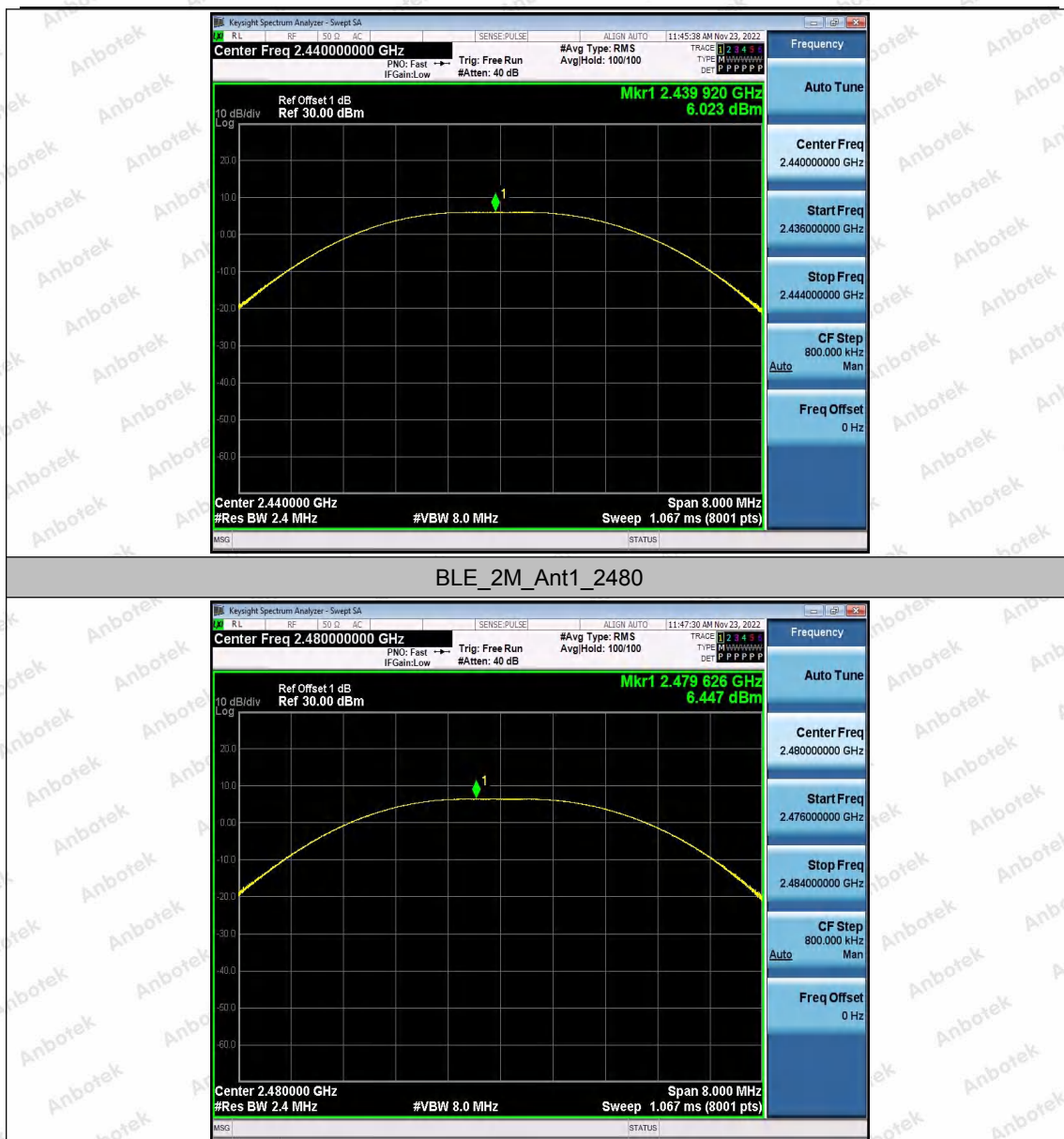
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Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9	≤8.00	PASS
		2440	-8.96	≤8.00	PASS
		2480	-8.5	≤8.00	PASS
BLE_2M	Ant1	2402	-11.73	≤8.00	PASS
		2440	-11.87	≤8.00	PASS
		2480	-11.54	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

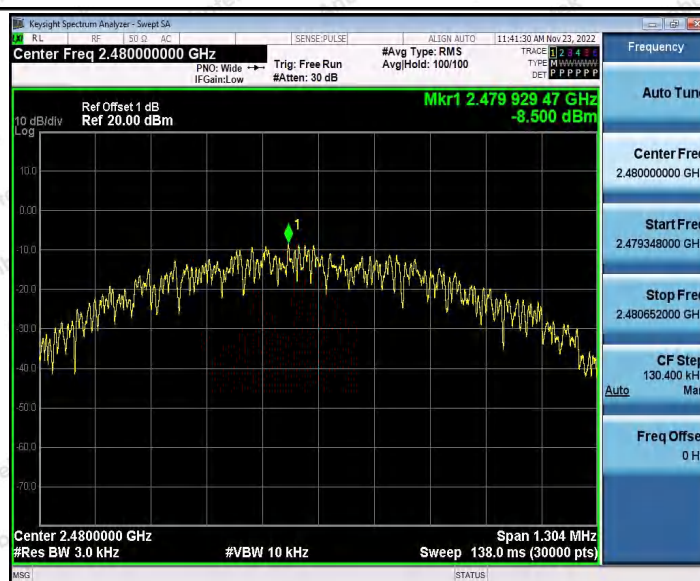
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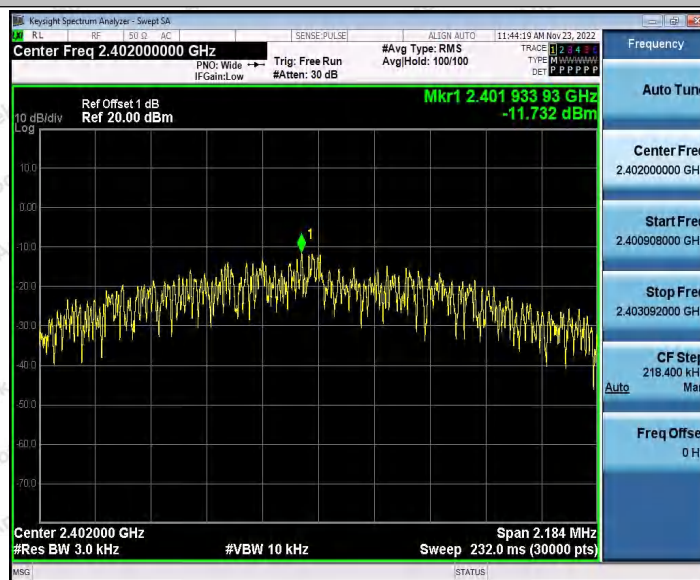


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

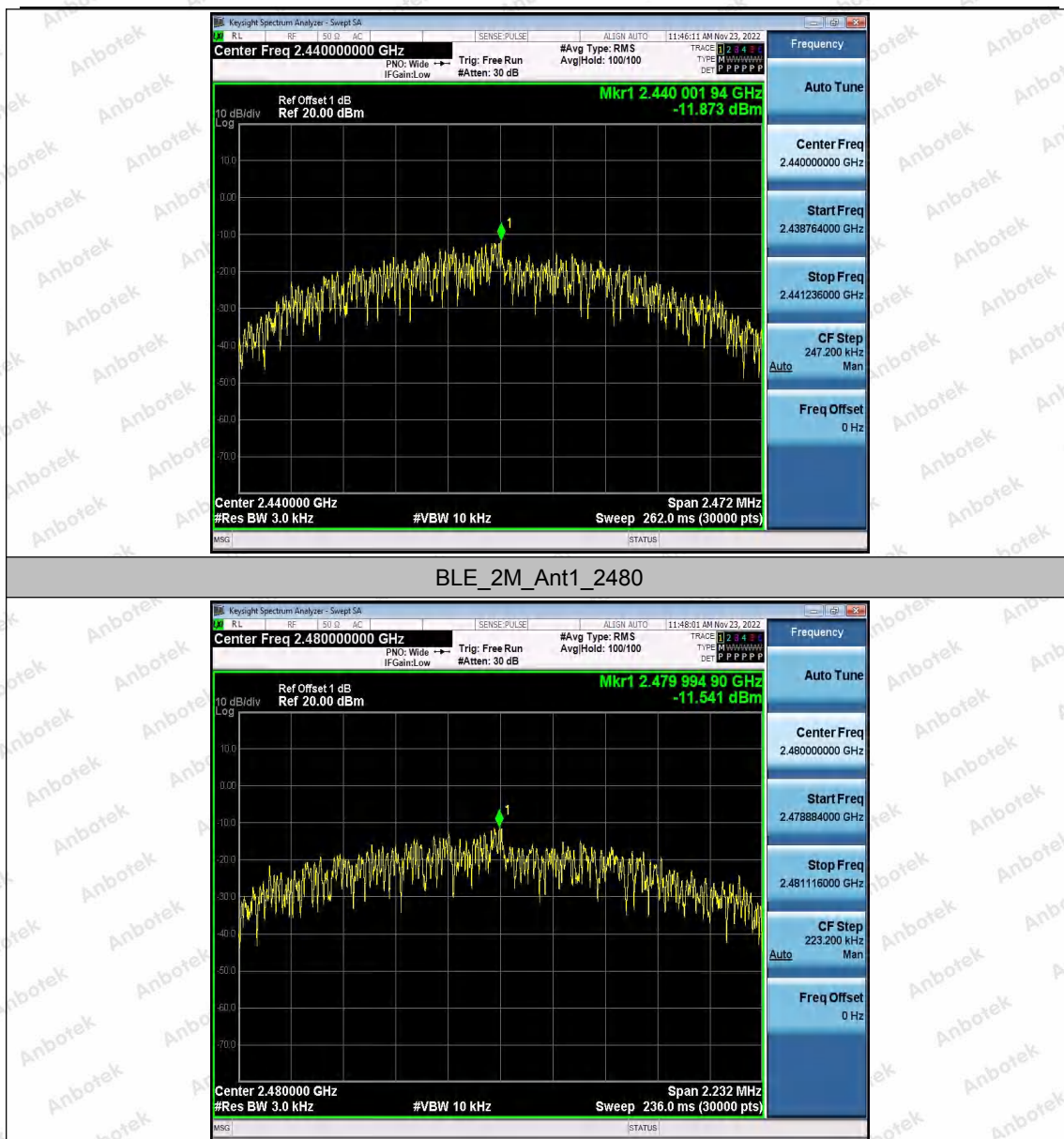
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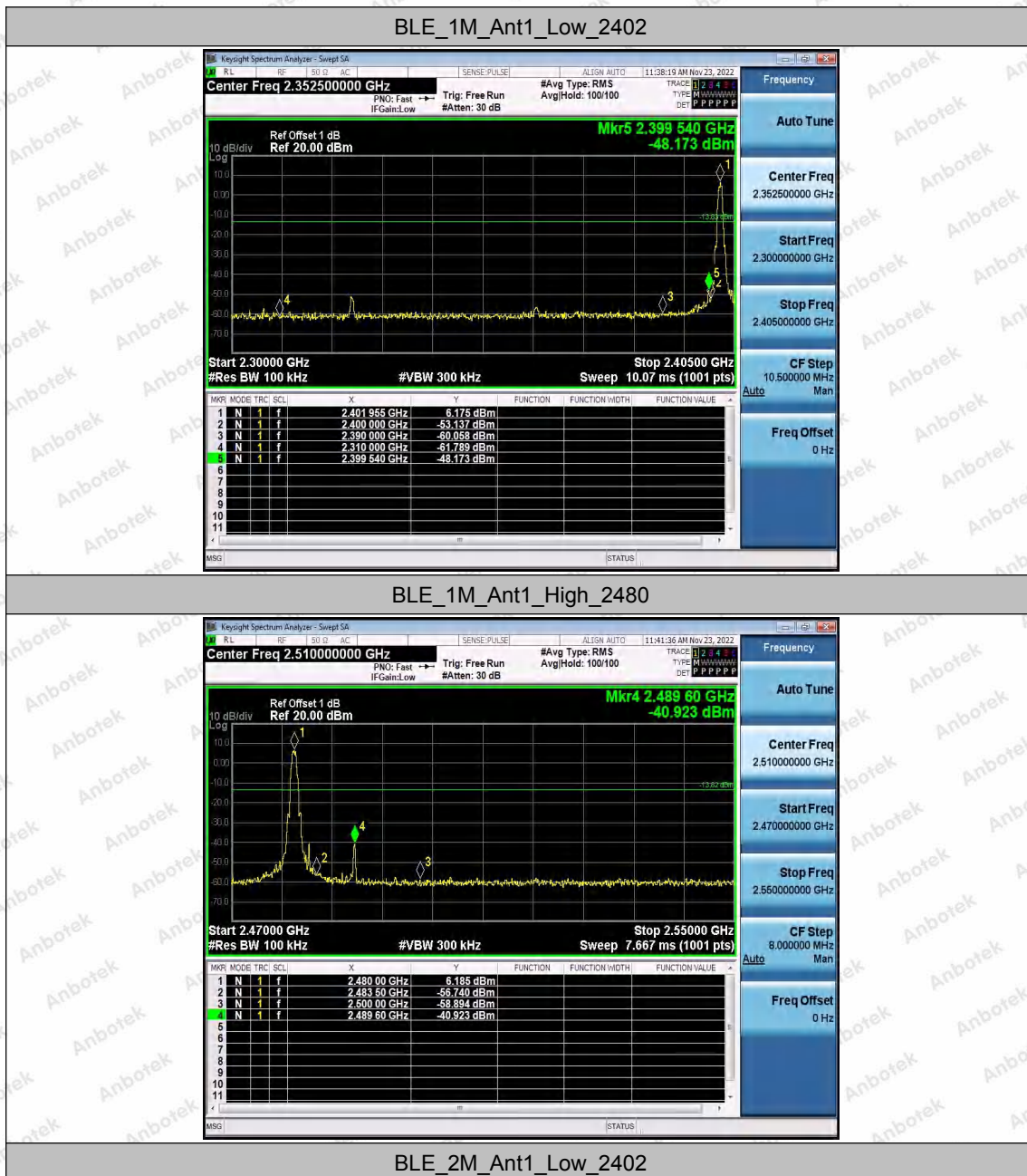
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Frequency[MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	6.18	-48.17	≤-13.83	PASS
		High	2480	6.19	-40.92	≤-13.82	PASS
BLE_2M	Ant1	Low	2402	5.64	-26.58	≤-14.36	PASS
		High	2480	5.01	-40.9	≤-14.99	PASS



Test Graphs



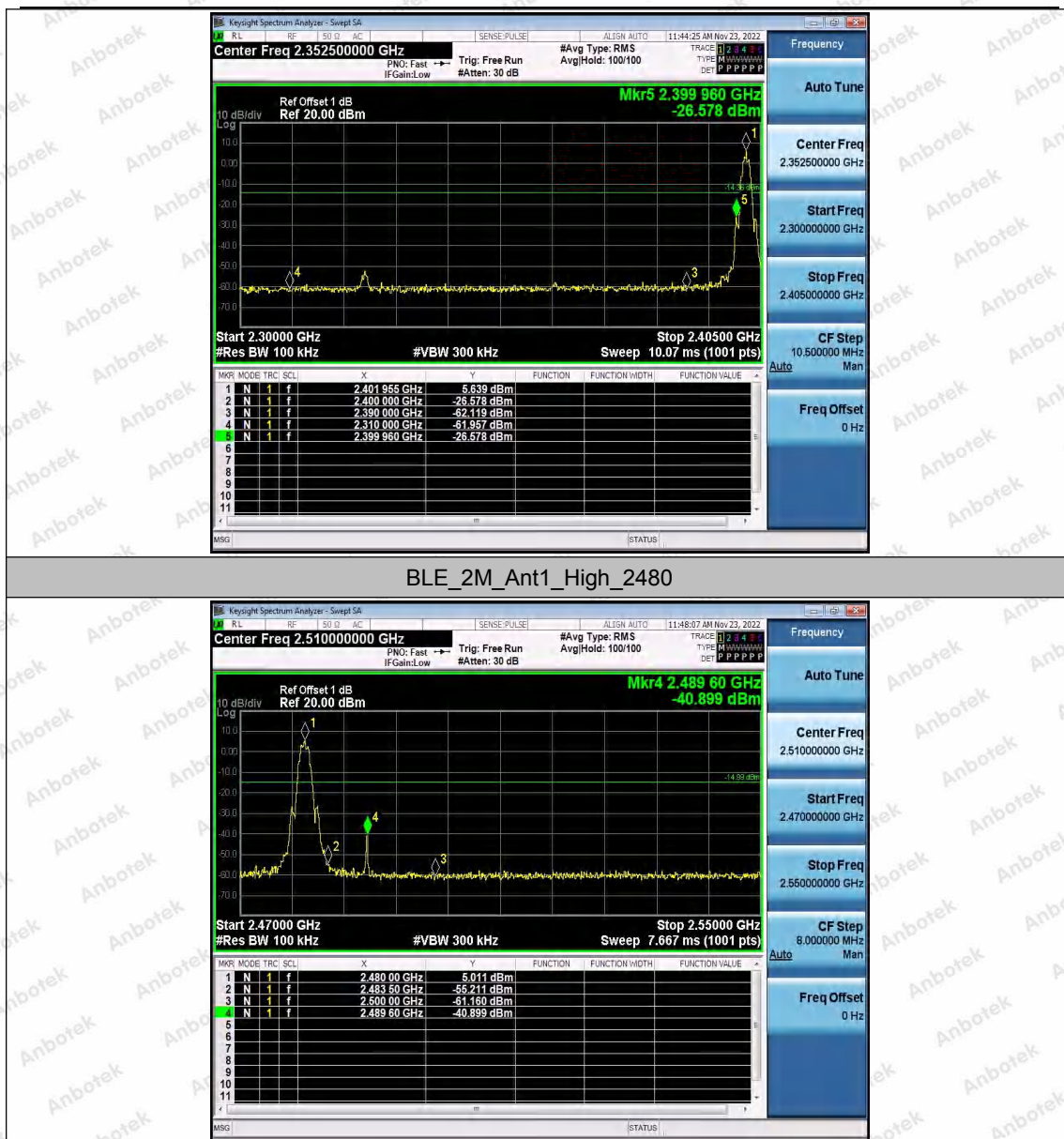
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Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq Range [MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	5.22	5.22	---	PASS
			30~1000	5.22	-69.11	≤ -14.78	PASS
			1000~26500	5.22	-52.71	≤ -14.78	PASS
		2440	Reference	5.32	5.32	---	PASS
			30~1000	5.32	-68.88	≤ -14.68	PASS
			1000~26500	5.32	-53.08	≤ -14.68	PASS
		2480	Reference	5.29	5.29	---	PASS
			30~1000	5.29	-68.81	≤ -14.71	PASS
			1000~26500	5.29	-50.71	≤ -14.71	PASS
BLE_2M	Ant1	2402	Reference	4.38	4.38	---	PASS
			30~1000	4.38	-68.95	≤ -15.62	PASS
			1000~26500	4.38	-50.81	≤ -15.62	PASS
		2440	Reference	2.21	2.21	---	PASS
			30~1000	2.21	-68.88	≤ -17.79	PASS
			1000~26500	2.21	-53.15	≤ -17.79	PASS
		2480	Reference	5.62	5.62	---	PASS
			30~1000	5.62	-68.99	≤ -14.38	PASS
			1000~26500	5.62	-53.35	≤ -14.38	PASS



Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

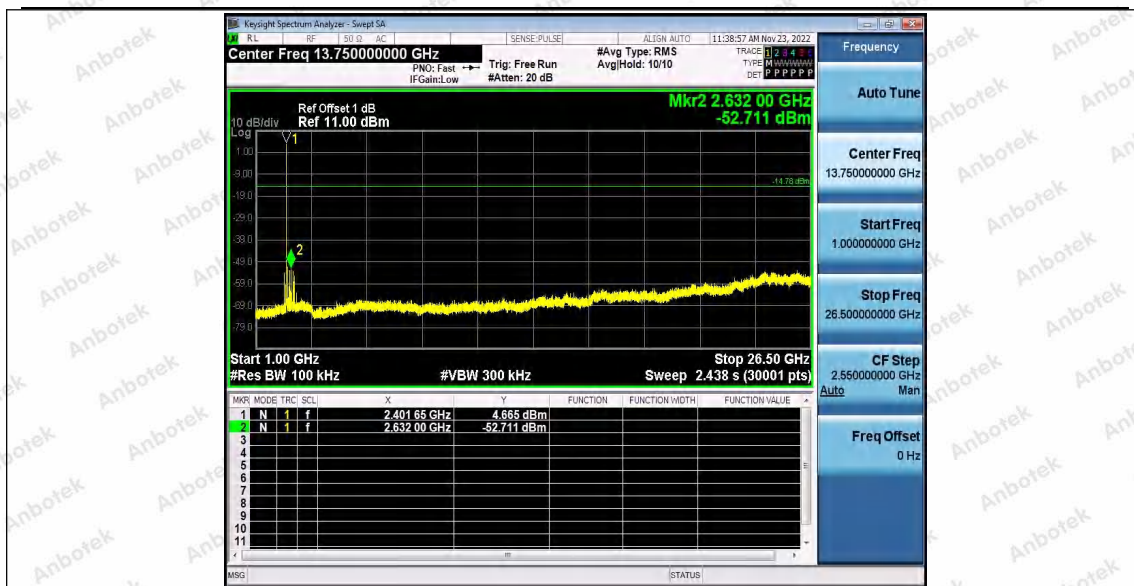
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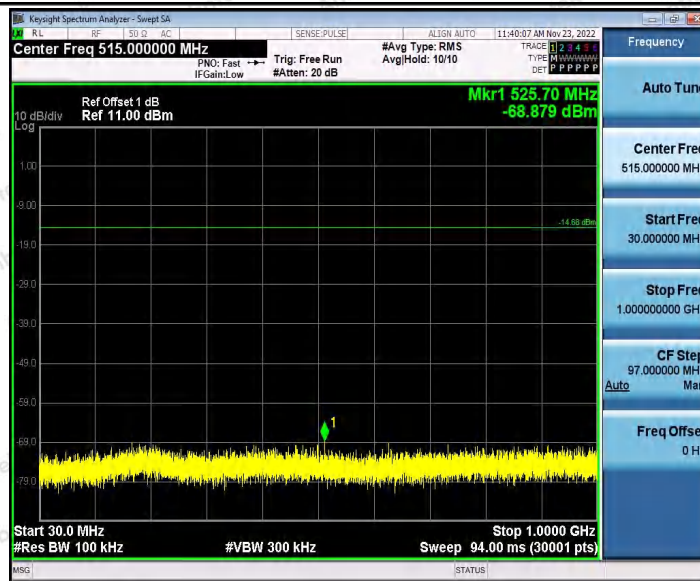


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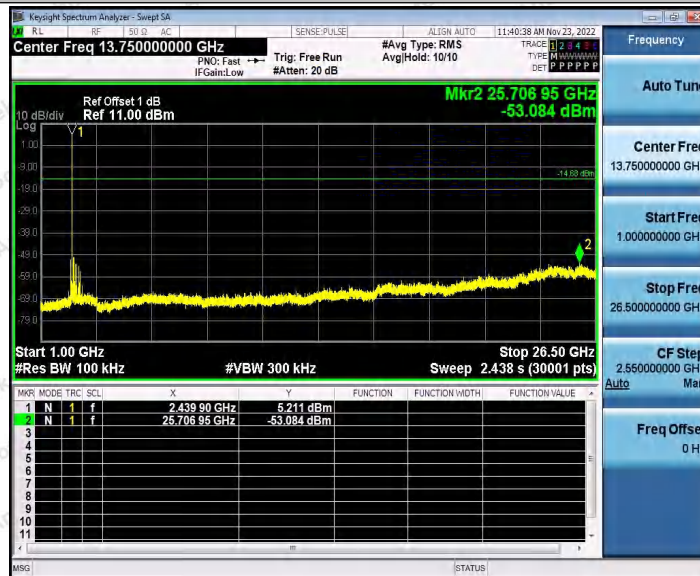


BLE_1M_Ant1_2440_30~1000



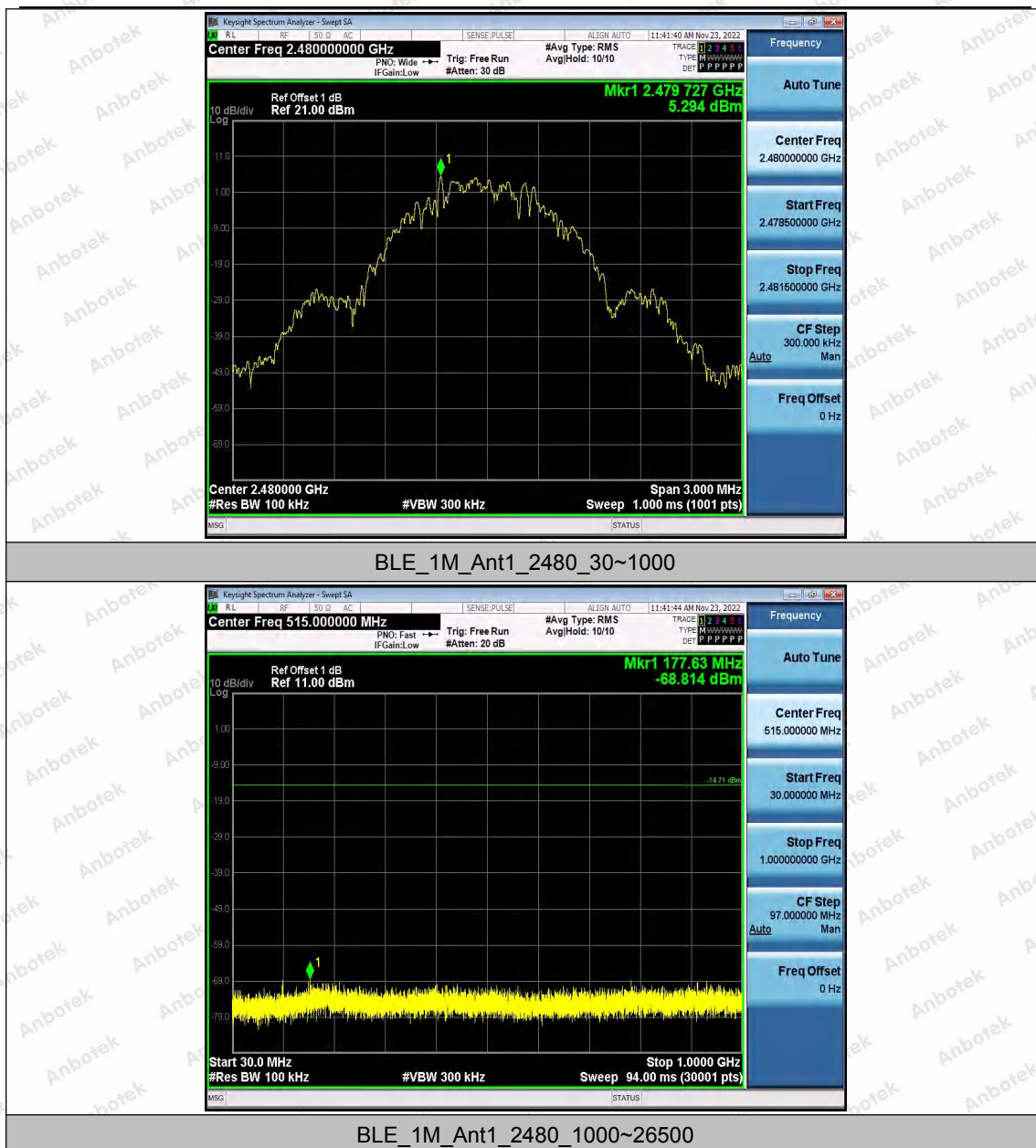


BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference





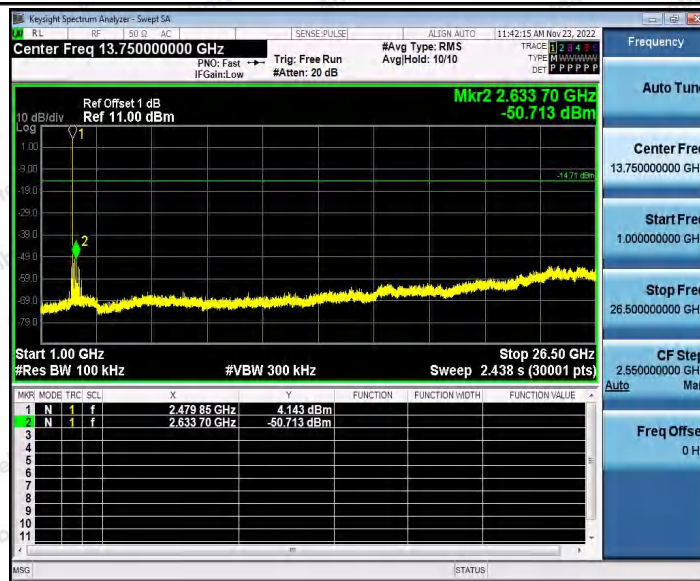
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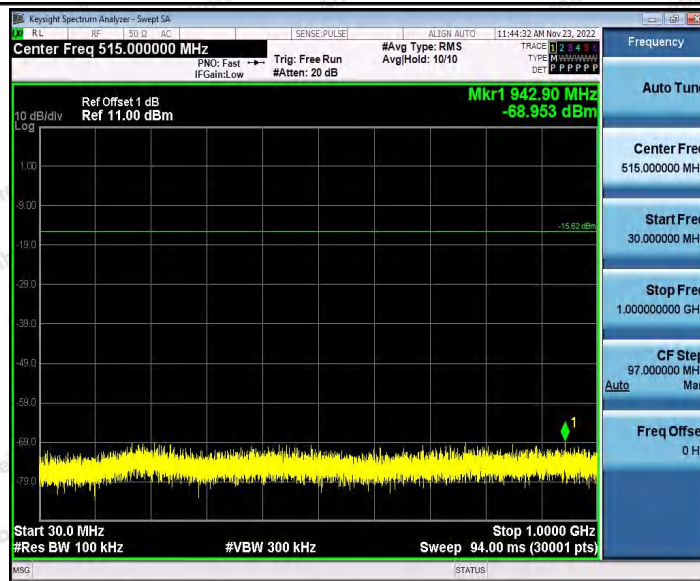


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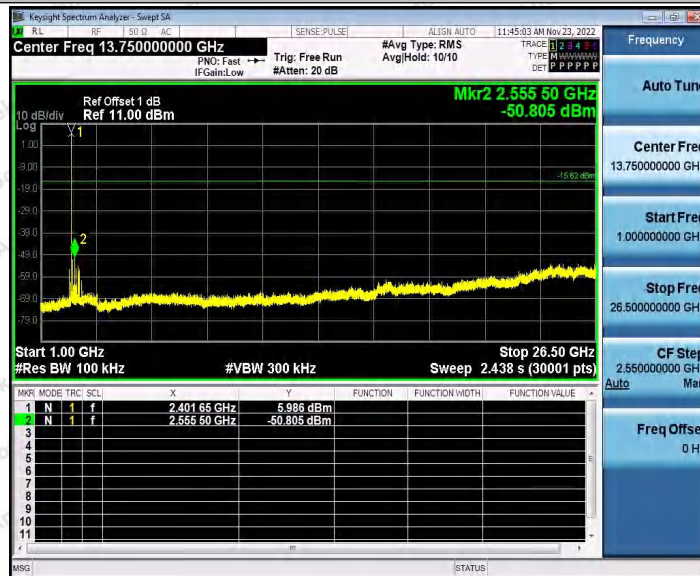


BLE_2M_Ant1_2402_30~1000





BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

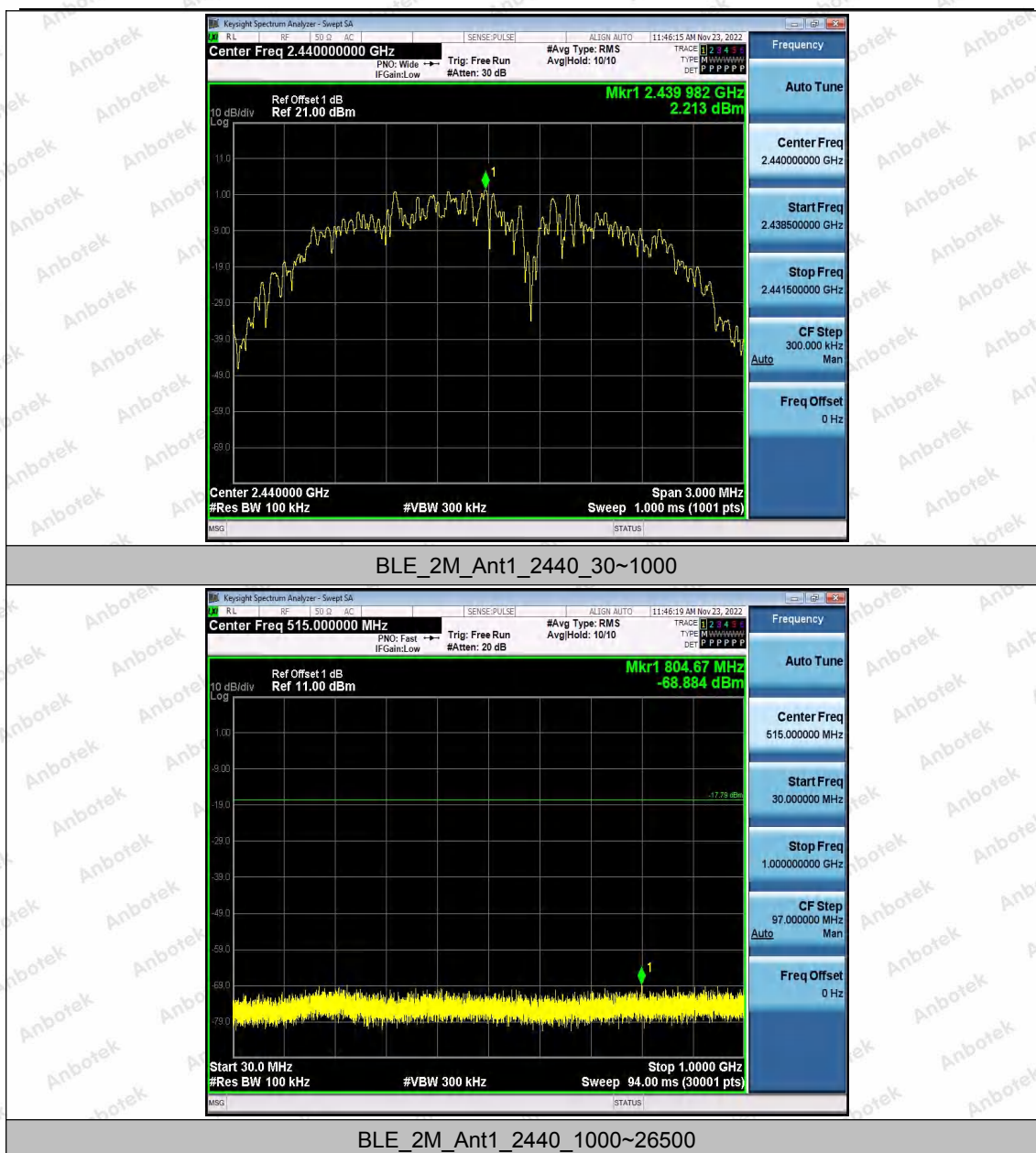
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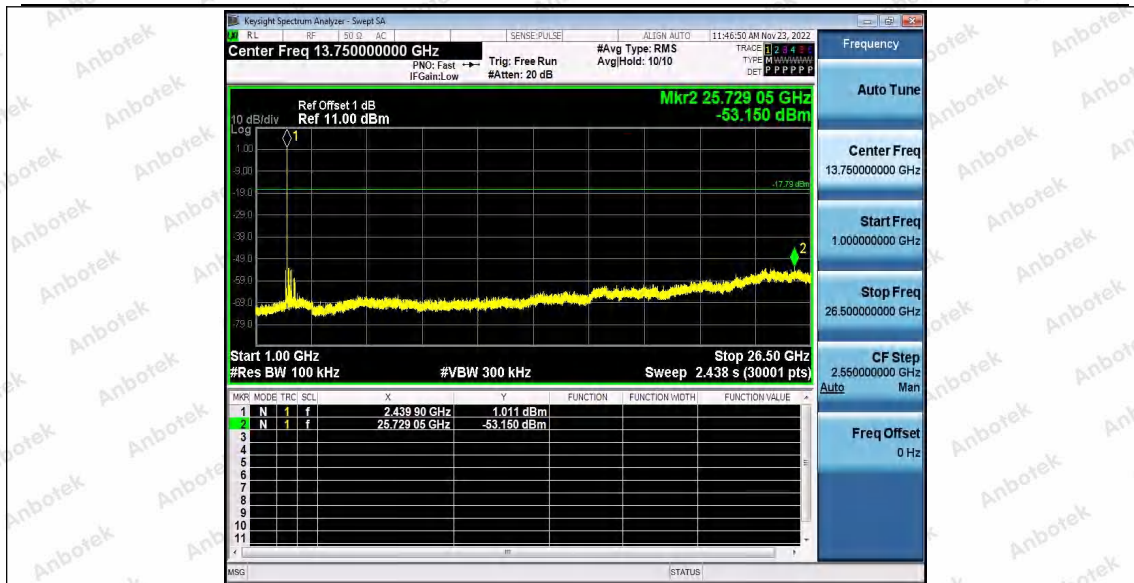
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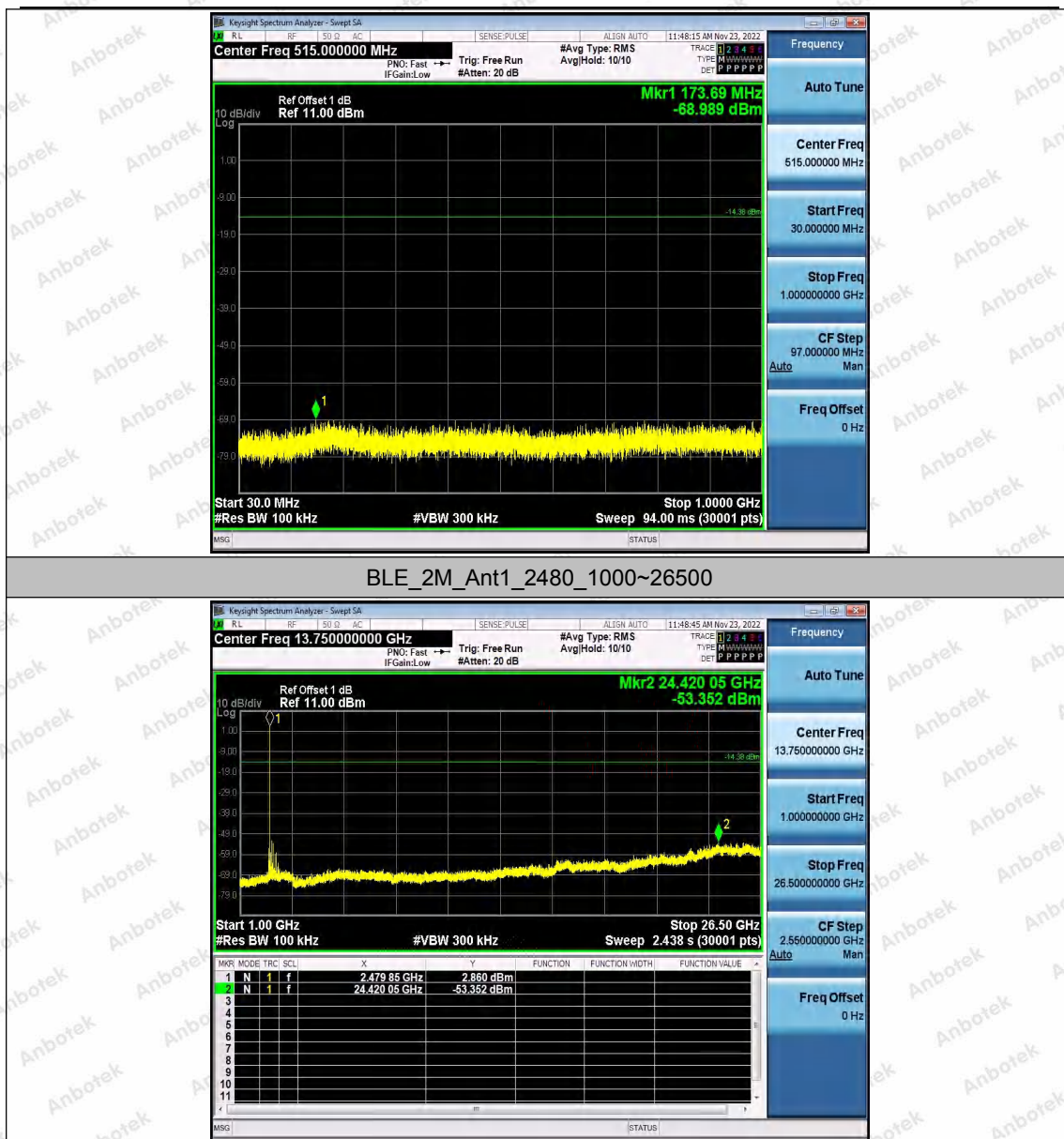


BLE_2M_Ant1_2480_0~Reference



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	0.39	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

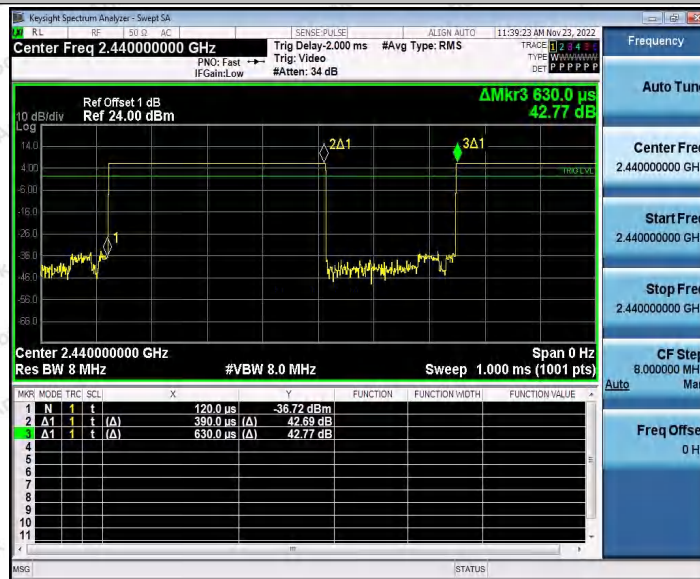


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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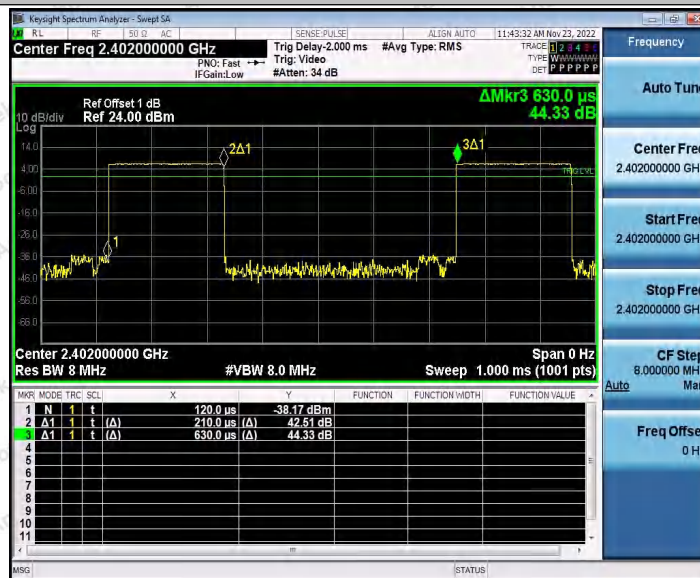


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

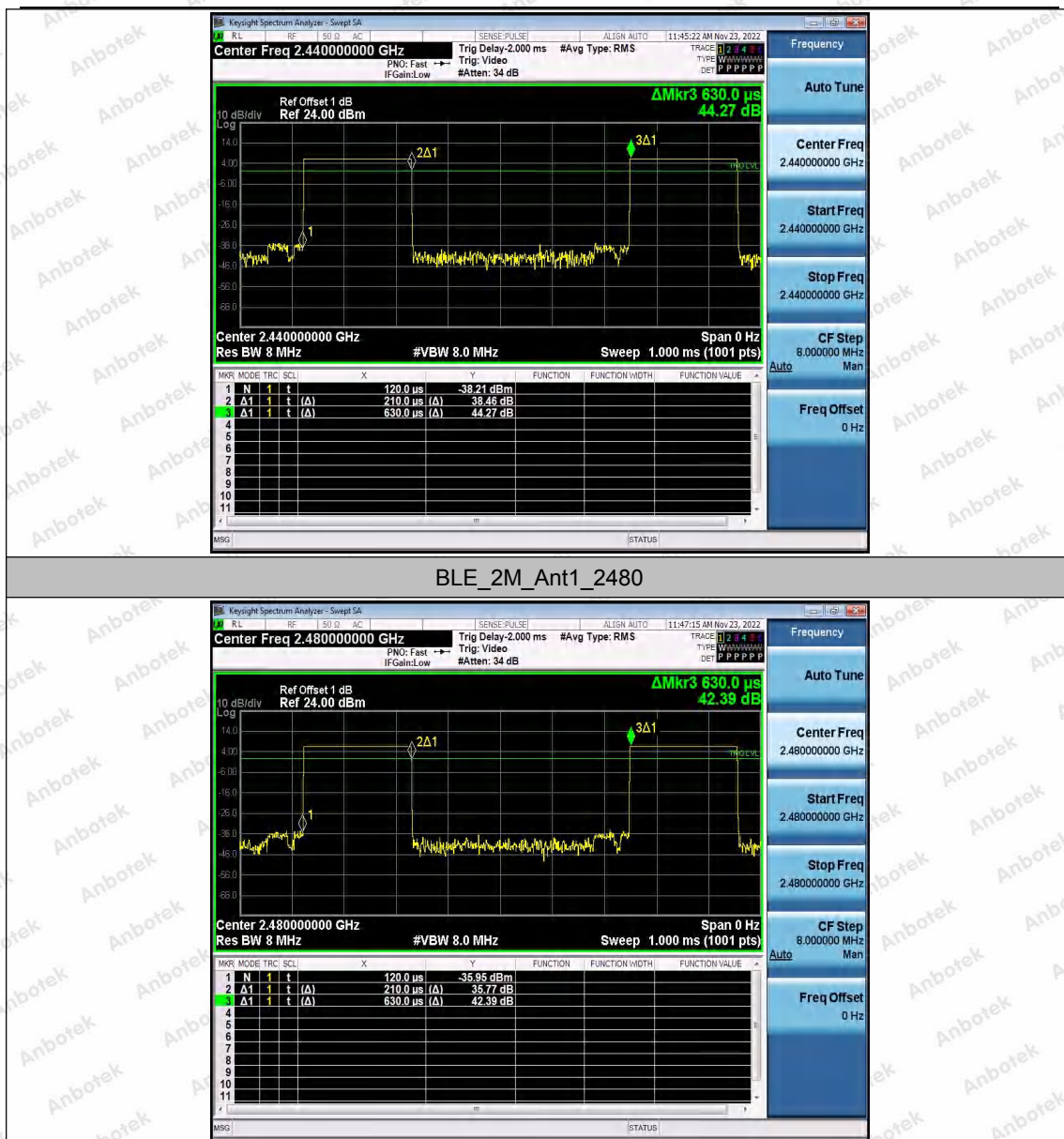
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