

Appendix Test Data

Report No.:	18220WC20186202	Test Sample No.:	1-2-2
Start Test Date:	2022.8.16	Finish Test Date:	2022.8.25
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	27.3℃	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
11b	Ant1	2412	8.040	2407.980	2416.020	≥0.5	PASS
		2437	8.040	2432.980	2441.020	≥0.5	PASS
		2462	7.560	2457.980	2465.540	≥0.5	PASS
11g	Ant1	2412	16.350	2403.840	2420.190	≥0.5	PASS
		2437	16.350	2428.840	2445.190	≥0.5	PASS
		2462	16.320	2453.840	2470.160	≥0.5	PASS
11n20	Ant1	2412	17.610	2403.210	2420.820	≥0.5	PASS
		2437	17.610	2428.210	2445.820	≥0.5	PASS
		2462	17.580	2453.210	2470.790	≥0.5	PASS



Test Graphs

11b_Ant1_2412



11b_Ant1_2437



11b_Ant1_2462

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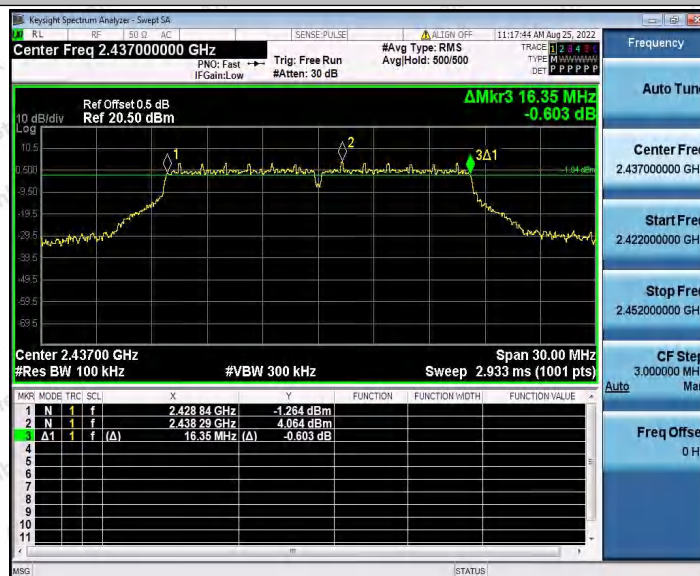




11g_Ant1_2412



11g_Ant1_2437

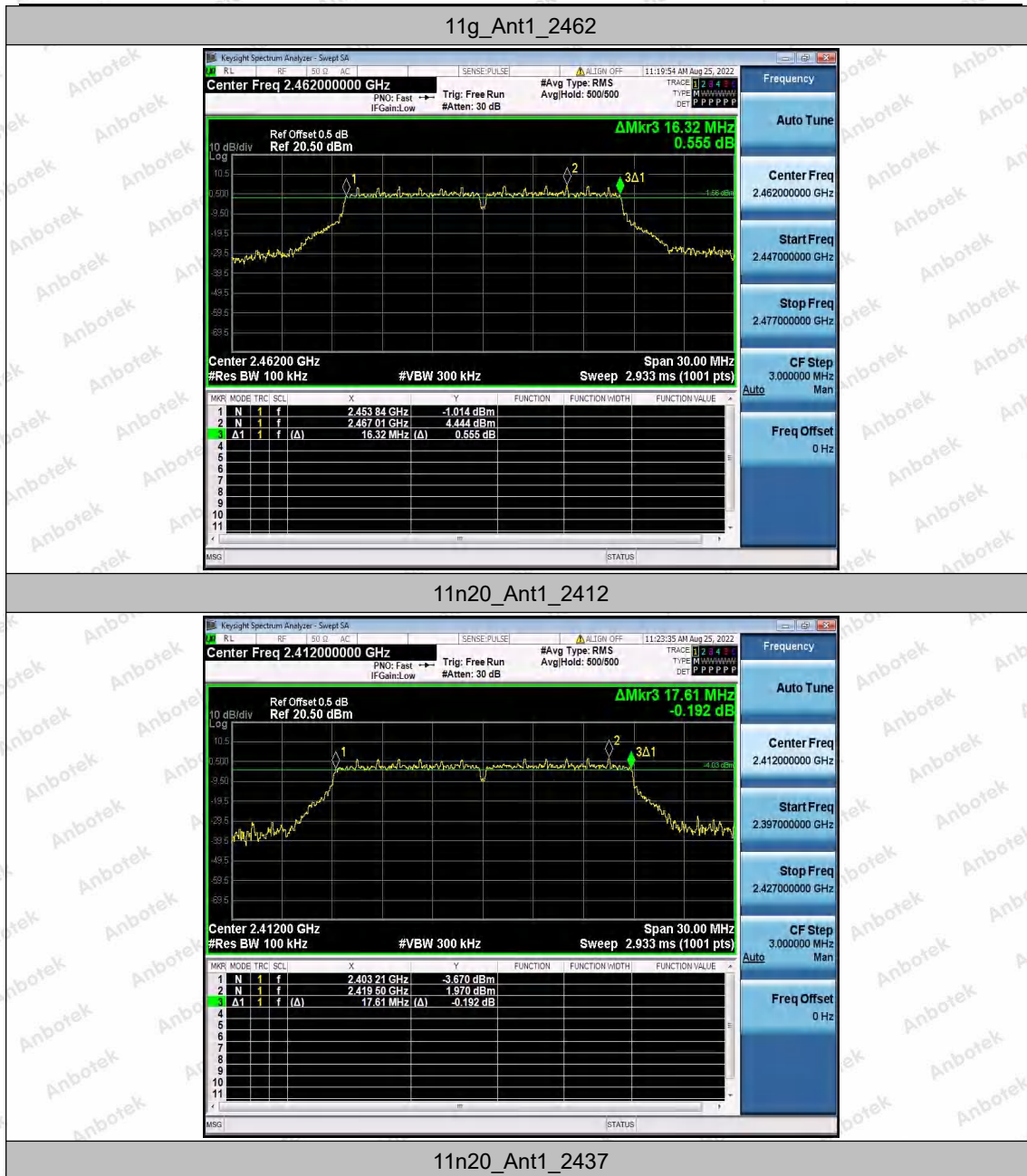


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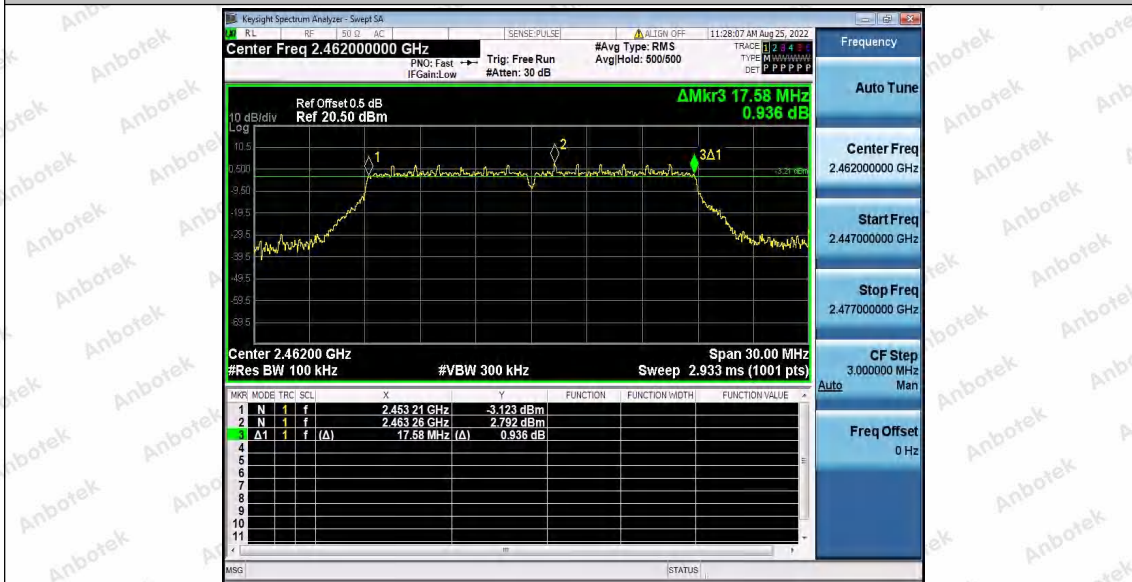


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11n20_Ant1_2462



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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant1	2412	10.564	2406.7501	2417.3141	---	PASS
		2437	10.583	2431.7237	2442.3067	---	PASS
		2462	10.576	2456.7433	2467.3193	---	PASS
11g	Ant1	2412	17.098	2403.4860	2420.5840	---	PASS
		2437	17.113	2428.4610	2445.5740	---	PASS
		2462	17.120	2453.4628	2470.5828	---	PASS
11n20	Ant1	2412	18.163	2402.9630	2421.1260	---	PASS
		2437	18.136	2427.9673	2446.1033	---	PASS
		2462	18.129	2452.9762	2471.1052	---	PASS



Test Graphs



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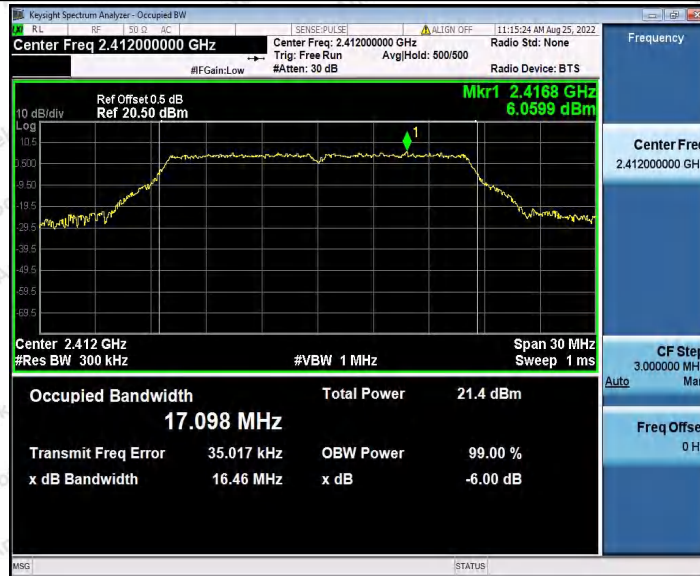


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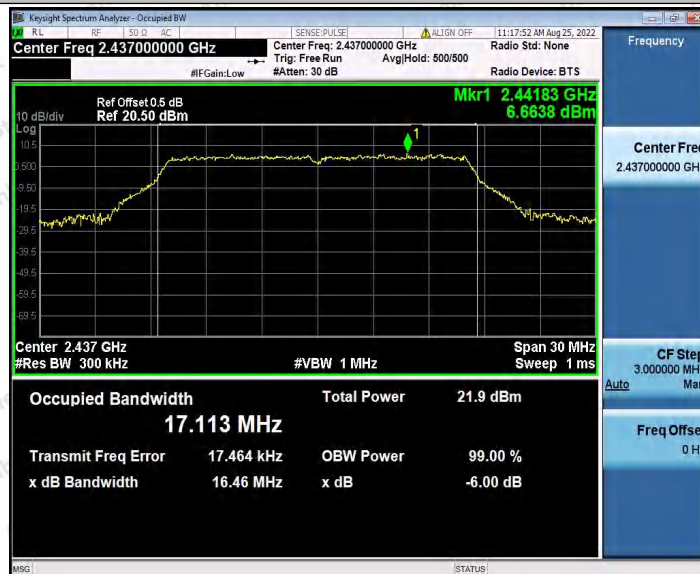




11g_Ant1_2412



11g_Ant1_2437



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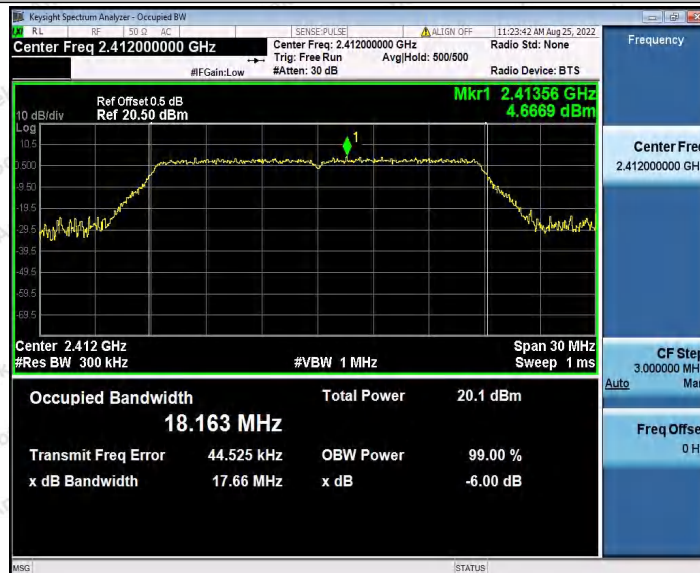
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11g_Ant1_2462



11n20_Ant1_2412



11n20_Ant1_2437

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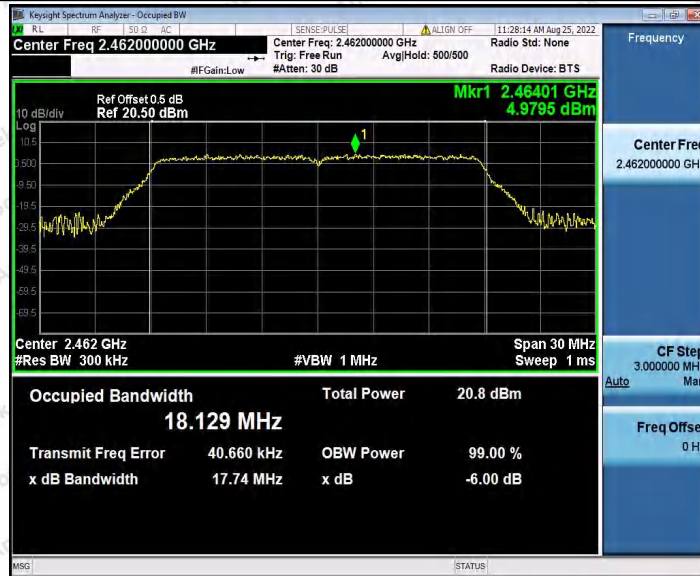


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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Set Power	Peak Power [dBm]	Conducted Limit[dBm]	Verdict
11b	Ant1	2412	---	17.54	≤30	PASS
		2437	---	18.04	≤30	PASS
		2462	---	18.20	≤30	PASS
11g	Ant1	2412	---	22.38	≤30	PASS
		2437	---	22.89	≤30	PASS
		2462	---	23.21	≤30	PASS
11n20	Ant1	2412	---	21.01	≤30	PASS
		2437	---	21.43	≤30	PASS
		2462	---	21.65	≤30	PASS



Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant1	2412	-5.51	≤8	PASS
		2437	-6.64	≤8	PASS
		2462	-6.37	≤8	PASS
11g	Ant1	2412	-9.95	≤8	PASS
		2437	-9.36	≤8	PASS
		2462	-9.34	≤8	PASS
11n20	Ant1	2412	-11.07	≤8	PASS
		2437	-9.65	≤8	PASS
		2462	-9.67	≤8	PASS



Test Graphs

11b_Ant1_2412



11b_Ant1_2437



11b_Ant1_2462

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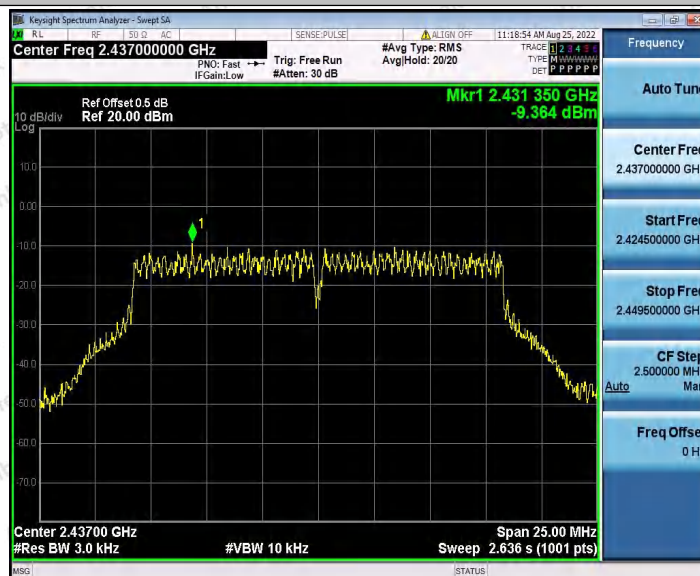




11g_Ant1_2412



11g_Ant1_2437



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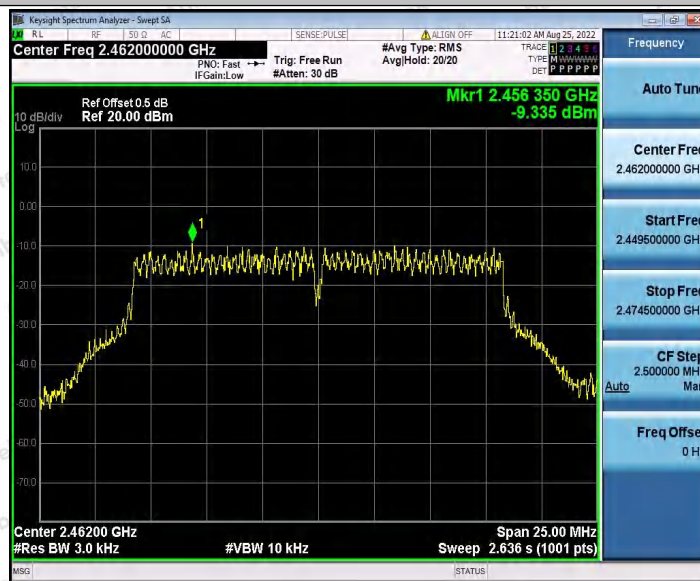
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11g_Ant1_2462



11n20_Ant1_2412



11n20_Ant1_2437

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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
11b	Ant1	Low	2412	6.66	-36.44	≤-13.34	PASS
		High	2462	7.20	-50.2	≤-12.8	PASS
11g	Ant1	Low	2412	3.56	-30.01	≤-16.44	PASS
		High	2462	4.61	-36.52	≤-15.39	PASS
11n20	Ant1	Low	2412	2.19	-30.36	≤-17.81	PASS
		High	2462	2.52	-37.39	≤-17.48	PASS



Test Graphs

11b_Ant1_Low_2412



11b_Ant1_High_2462



11g_Ant1_Low_2412

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11g_Ant1_High_2462



11n20_Ant1_Low_2412



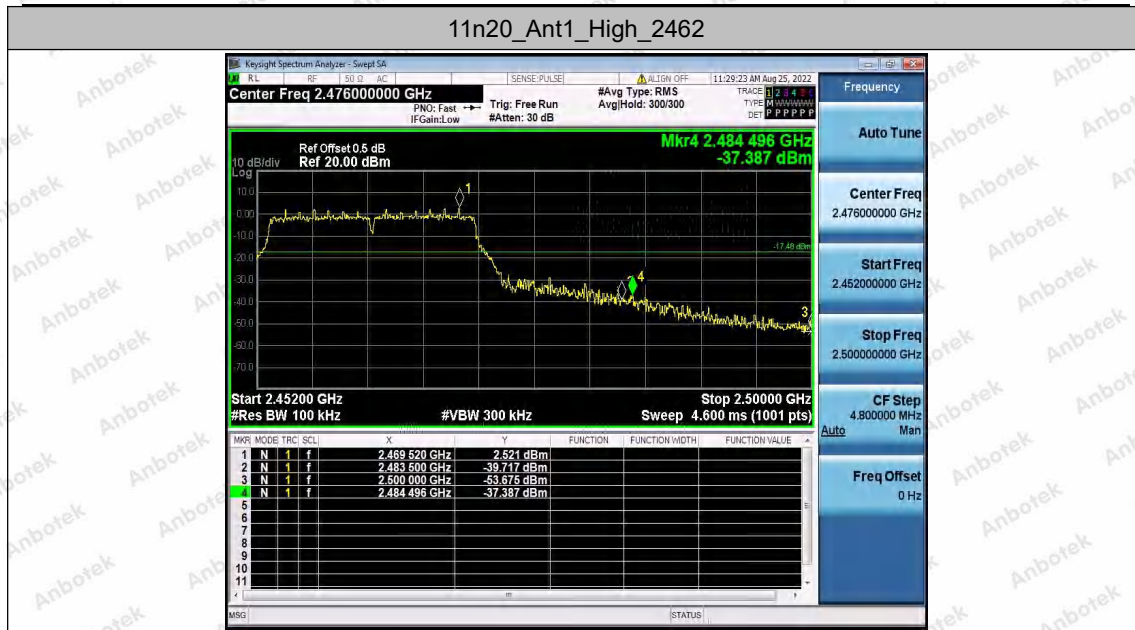
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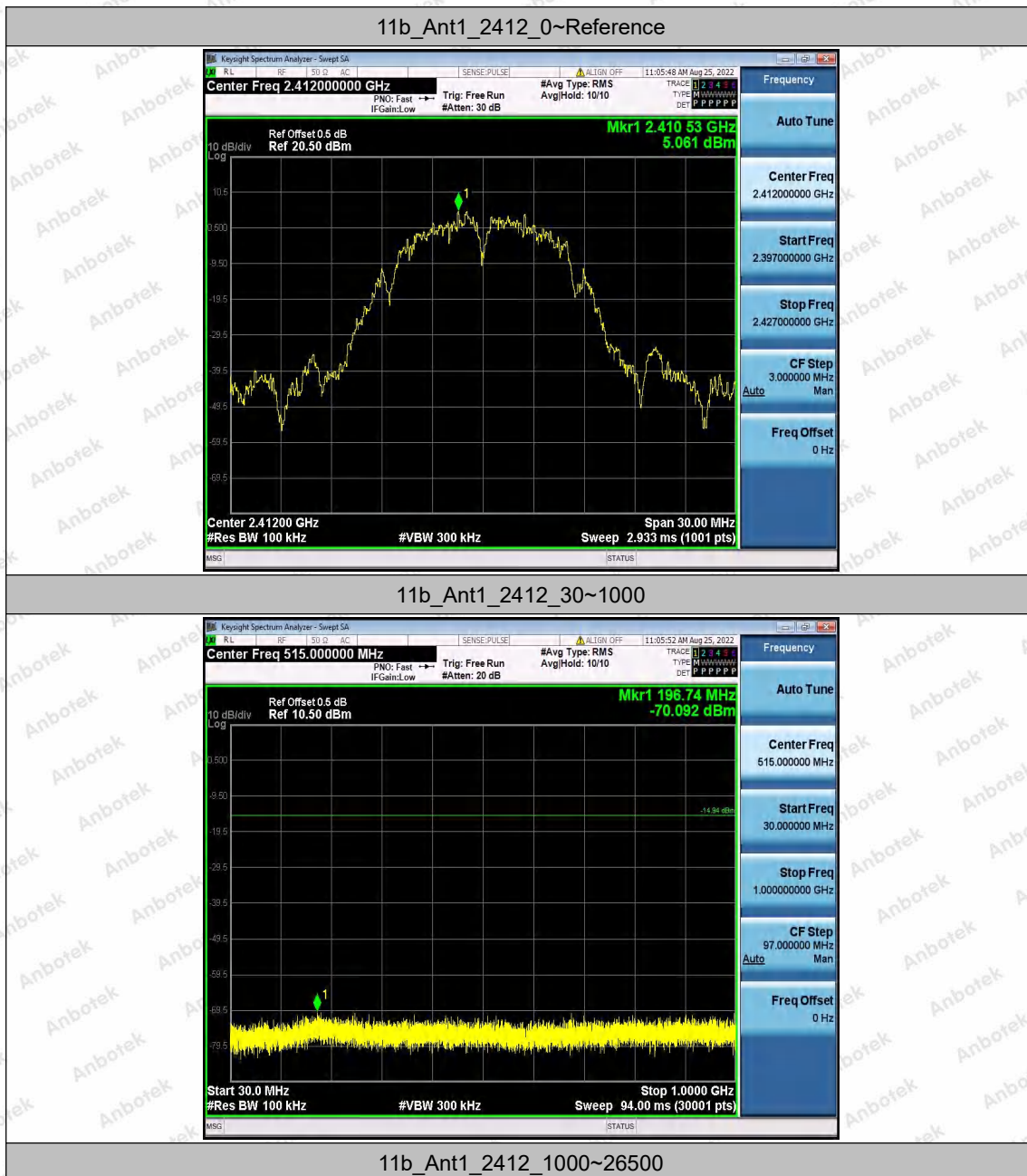
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq Range [Mhz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11b	Ant1	2412	Reference	5.06	5.06	---	PASS
			30~1000	5.06	-70.09	≤-14.94	PASS
			1000~26500	5.06	-47.71	≤-14.94	PASS
		2437	Reference	6.25	6.25	---	PASS
			30~1000	6.25	-70.09	≤-13.75	PASS
			1000~26500	6.25	-47.88	≤-13.75	PASS
		2462	Reference	4.83	4.83	---	PASS
			30~1000	4.83	-69.11	≤-15.17	PASS
			1000~26500	4.83	-47.49	≤-15.17	PASS
11g	Ant1	2412	Reference	-0.14	-0.14	---	PASS
			30~1000	-0.14	-69.19	≤-20.14	PASS
			1000~26500	-0.14	-47.38	≤-20.14	PASS
		2437	Reference	2.04	2.04	---	PASS
			30~1000	2.04	-69.78	≤-17.96	PASS
			1000~26500	2.04	-43.22	≤-17.96	PASS
		2462	Reference	4.29	4.29	---	PASS
			30~1000	4.29	-69.77	≤-15.71	PASS
			1000~26500	4.29	-44.88	≤-15.71	PASS
11n20	Ant1	2412	Reference	1.39	1.39	---	PASS
			30~1000	1.39	-68.84	≤-18.61	PASS
			1000~26500	1.39	-48.25	≤-18.61	PASS
		2437	Reference	1.77	1.77	---	PASS
			30~1000	1.77	-69.46	≤-18.23	PASS
			1000~26500	1.77	-44.39	≤-18.23	PASS
		2462	Reference	1.02	1.02	---	PASS
			30~1000	1.02	-69.19	≤-18.98	PASS
			1000~26500	1.02	-46.18	≤-18.98	PASS



Test Graphs



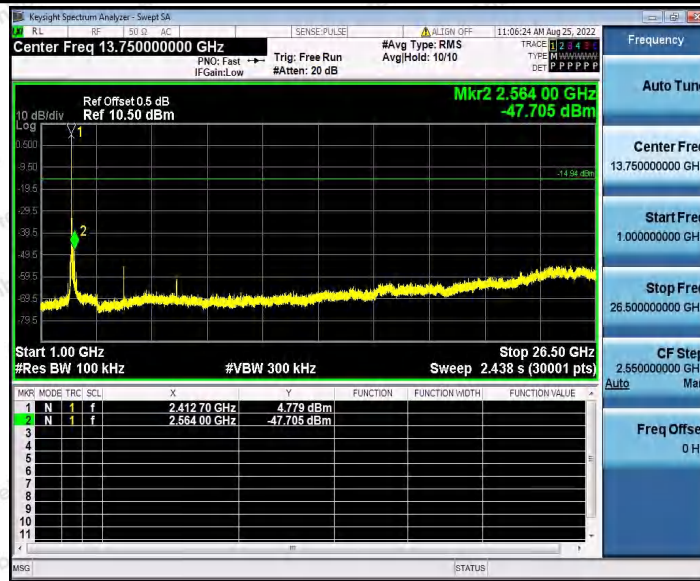
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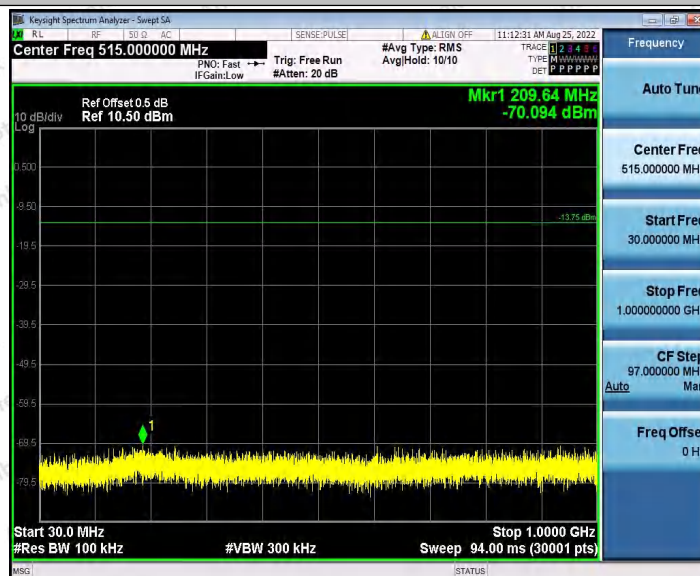




11b_Ant1_2437_0~Reference



11b_Ant1_2437_30~1000



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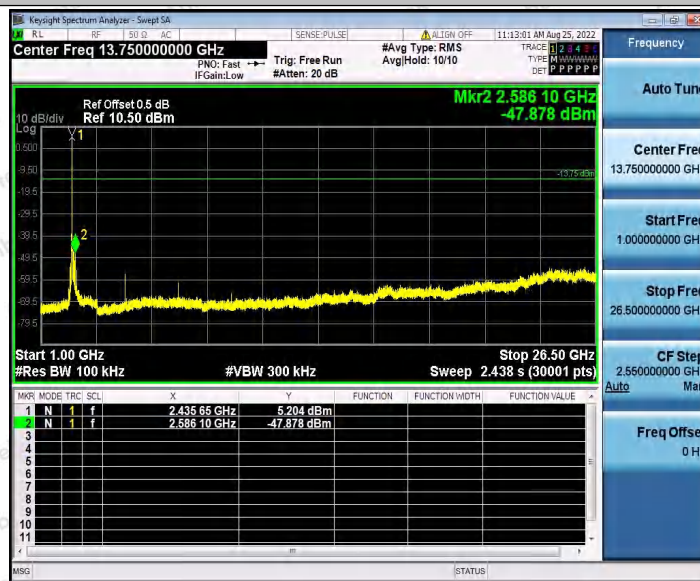
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11b_Ant1_2437_1000~26500



11b_Ant1_2462_0~Reference



11b_Ant1_2462_30~1000

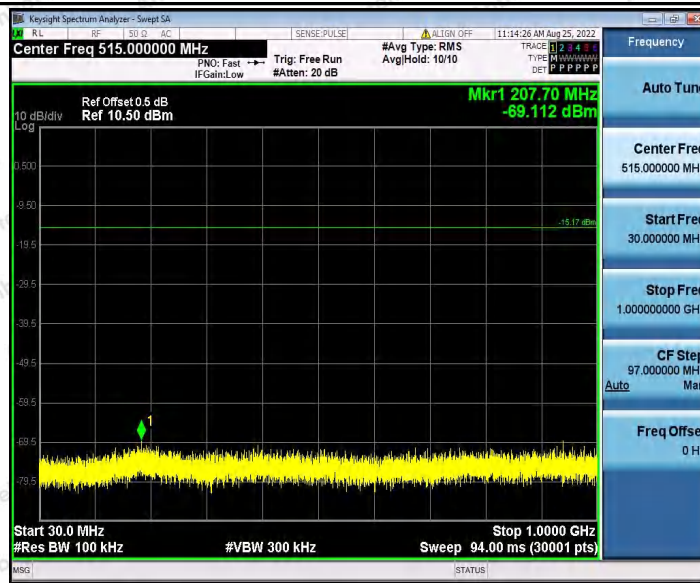
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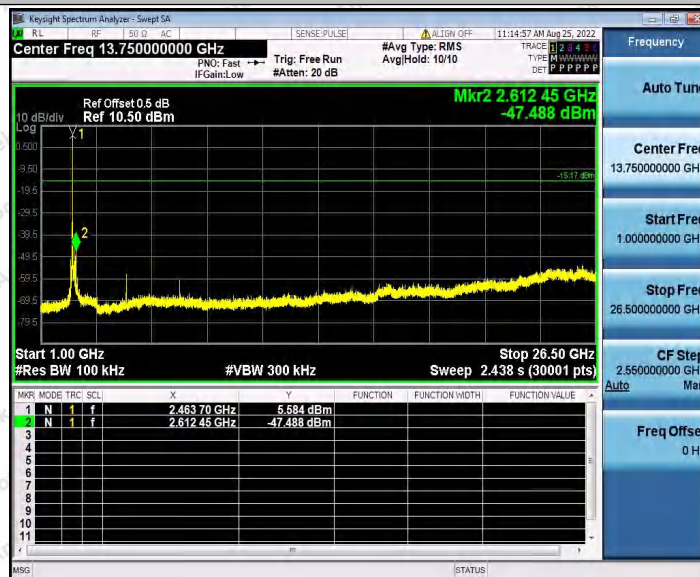


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11b_Ant1_2462_1000~26500



11g_Ant1_2412_0~Reference



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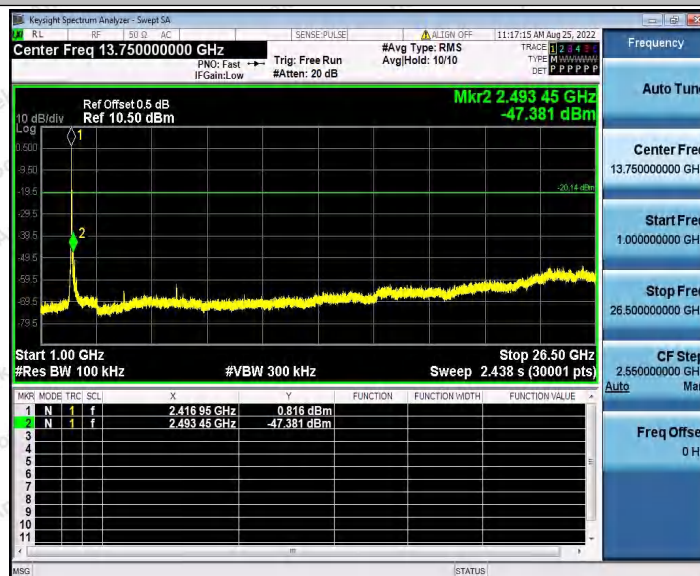
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11g_Ant1_2412_30~1000



11g_Ant1_2412_1000~26500



11g_Ant1_2437_0~Reference

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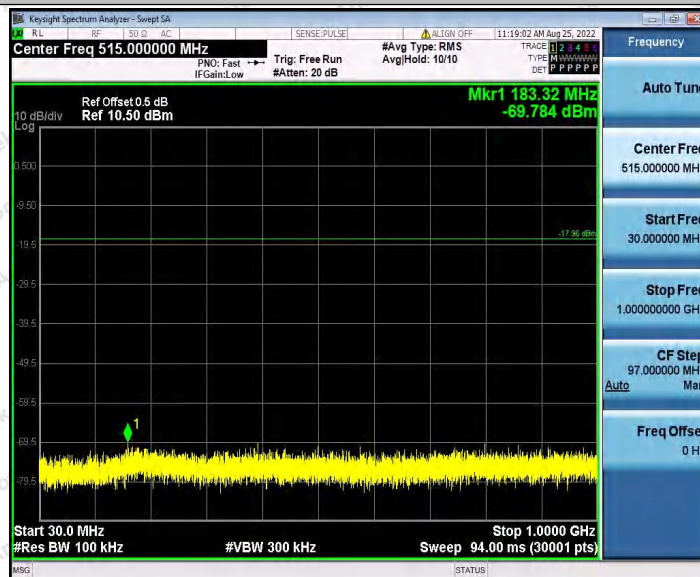


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11g_Ant1_2437_30~1000



11g_Ant1_2437_1000~26500



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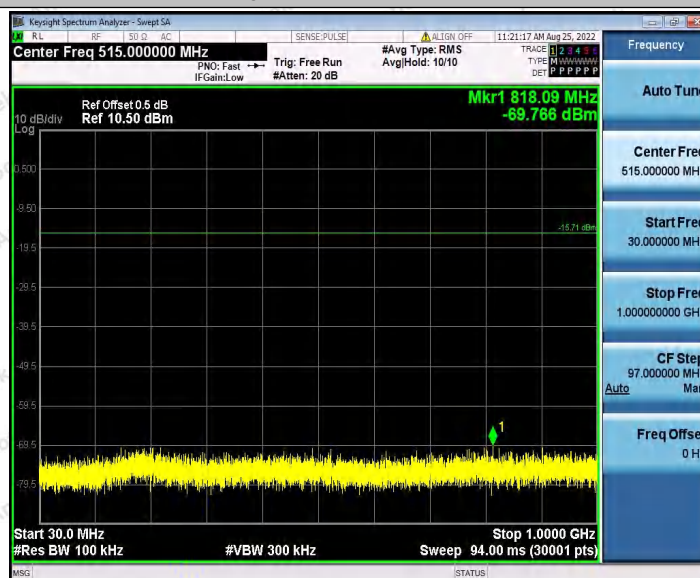
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11g_Ant1_2462_30~1000



11g_Ant1_2462_1000~26500

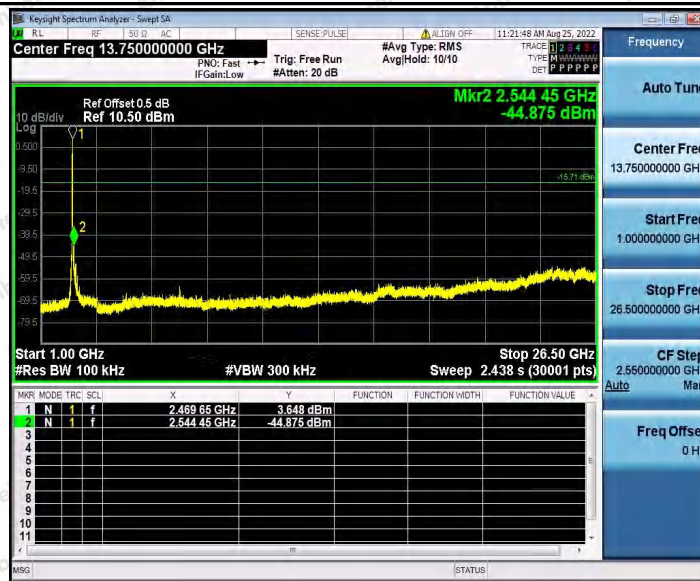
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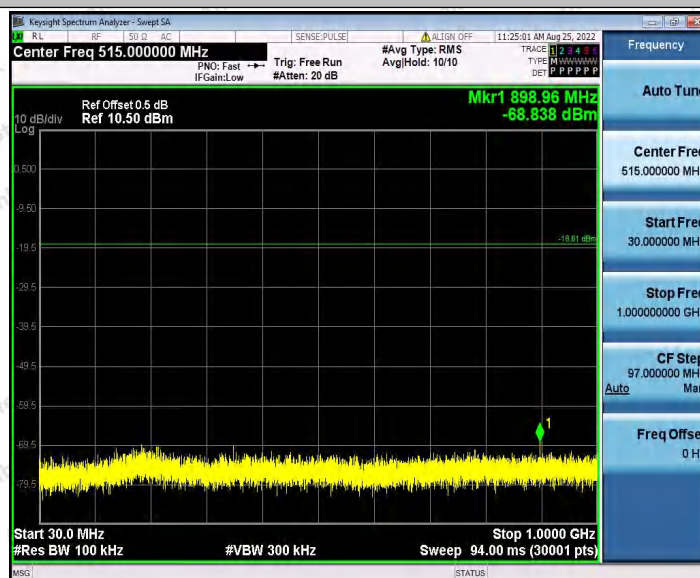




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11n20_Ant1_2412_30~1000



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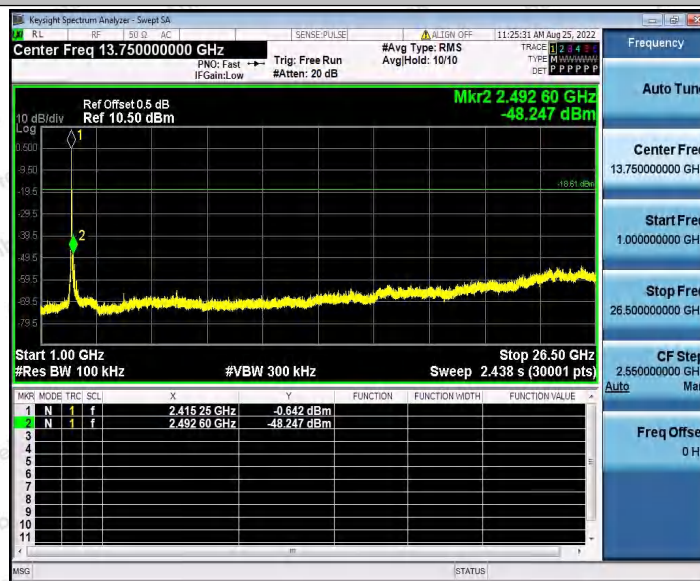
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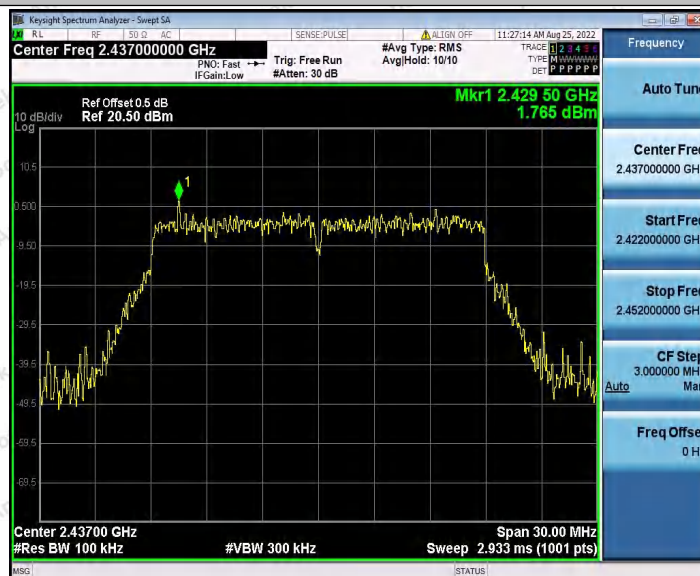
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11n20_Ant1_2412_1000~26500



11n20_Ant1_2437_0~Reference



11n20_Ant1_2437_30~1000

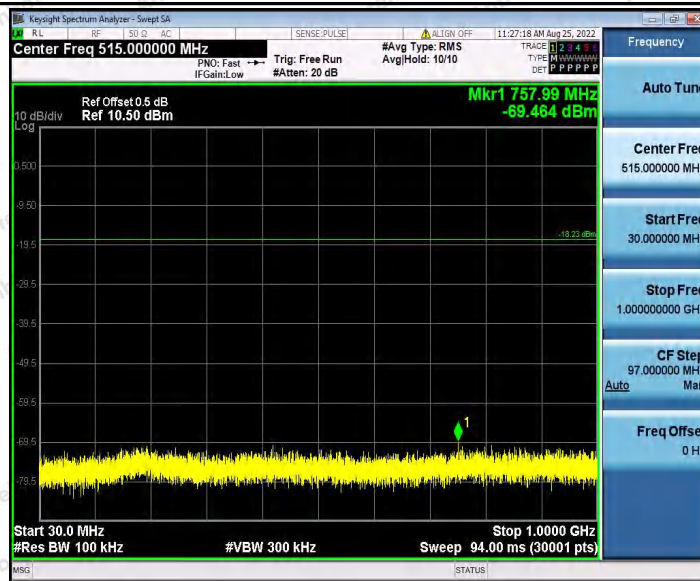
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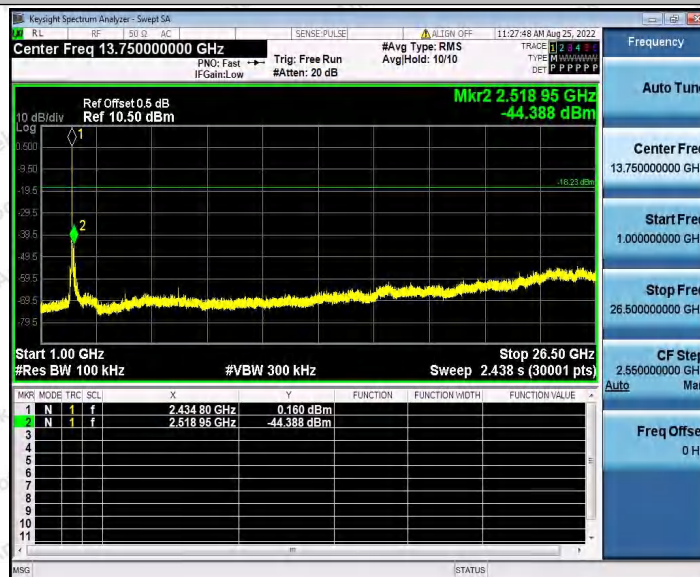


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11n20_Ant1_2437_1000~26500



11n20_Ant1_2462_0~Reference



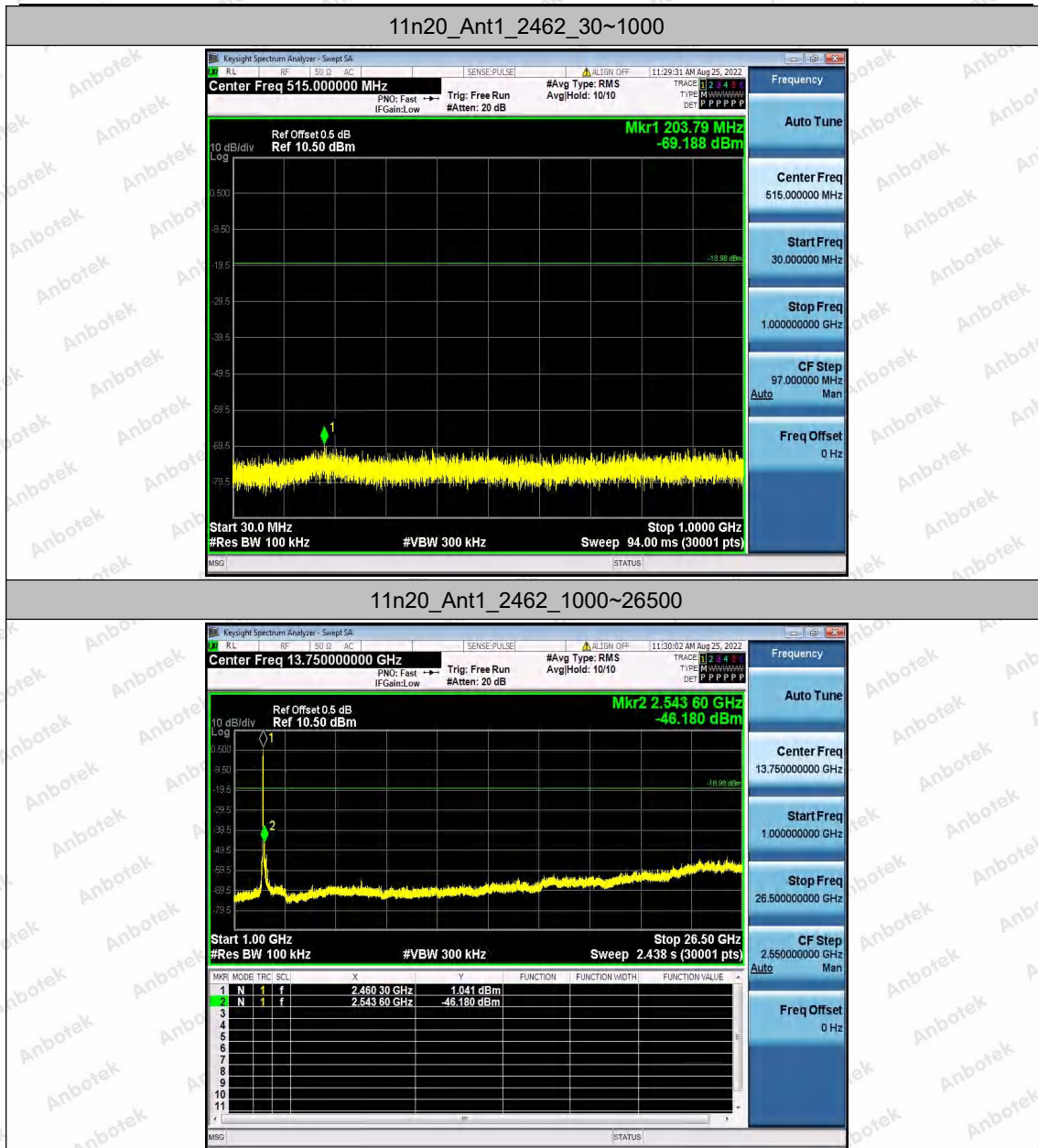
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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11b	Ant1	2437	8.42	8.45	99.64	0.02
11g	Ant1	2437	1.40	1.44	97.22	0.12
11n20	Ant1	2437	1.31	1.35	97.04	0.13

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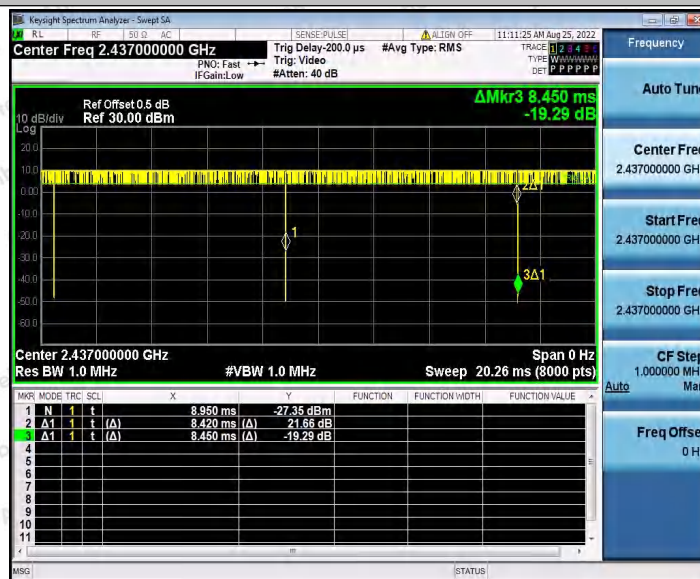


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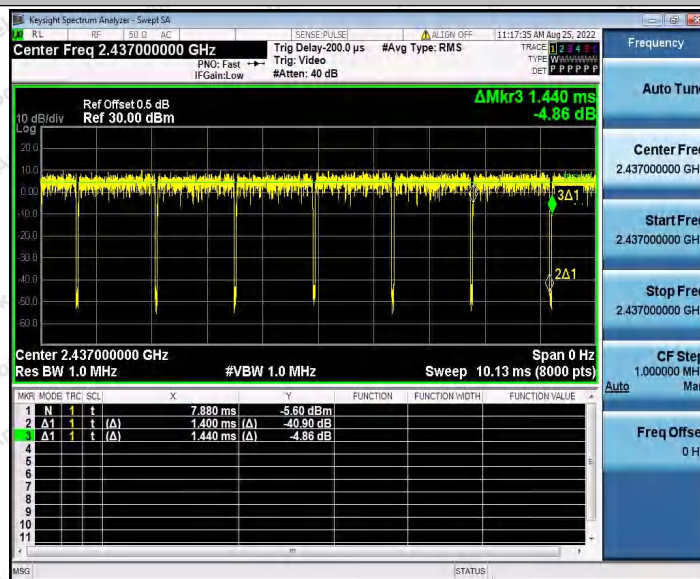


Test Graphs

11b_Ant1_2437



11g_Ant1_2437



11n20_Ant1_2437

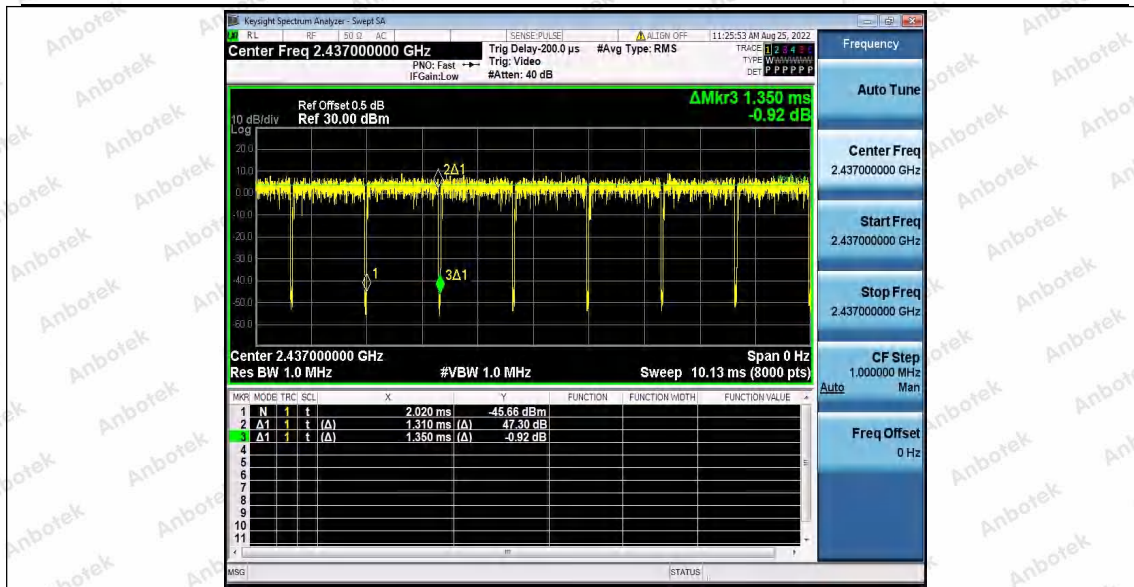
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