

Appendix Test Data

Report No.:	18220WC20247902	Test Sample No.:	1-2-2
Start Test Date:	2022.10.18	Finish Test Date:	2022.10.21
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	27.3°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
11B	Ant1	2412	9.400	2407.360	2416.760	≥0.5	PASS
		2437	9.080	2432.440	2441.520	≥0.5	PASS
		2462	9.840	2457.280	2467.120	≥0.5	PASS
11G	Ant1	2412	16.440	2403.800	2420.240	≥0.5	PASS
		2437	16.440	2428.800	2445.240	≥0.5	PASS
		2462	16.400	2453.800	2470.200	≥0.5	PASS
11N20	Ant1	2412	17.600	2403.200	2420.800	≥0.5	PASS
		2437	17.040	2428.440	2445.480	≥0.5	PASS
		2462	17.600	2453.200	2470.800	≥0.5	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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11G_Ant1_2412



11G_Ant1_2437





11G_Ant1_2462



11N20_Ant1_2412





11N20_Ant1_2437



11N20_Ant1_2462





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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant1	2412	14.630	2404.7141	2419.3441
		2437	14.662	2429.7191	2444.3811
		2462	14.643	2454.7039	2469.3469
11G	Ant1	2412	16.765	2403.6498	2420.4148
		2437	16.880	2428.5925	2445.4725
		2462	16.900	2453.6013	2470.5013
11N20	Ant1	2412	17.868	2403.1102	2420.9782
		2437	17.944	2428.0404	2445.9844
		2462	17.982	2453.0336	2471.0156



Test Graphs

11B_Ant1_2412

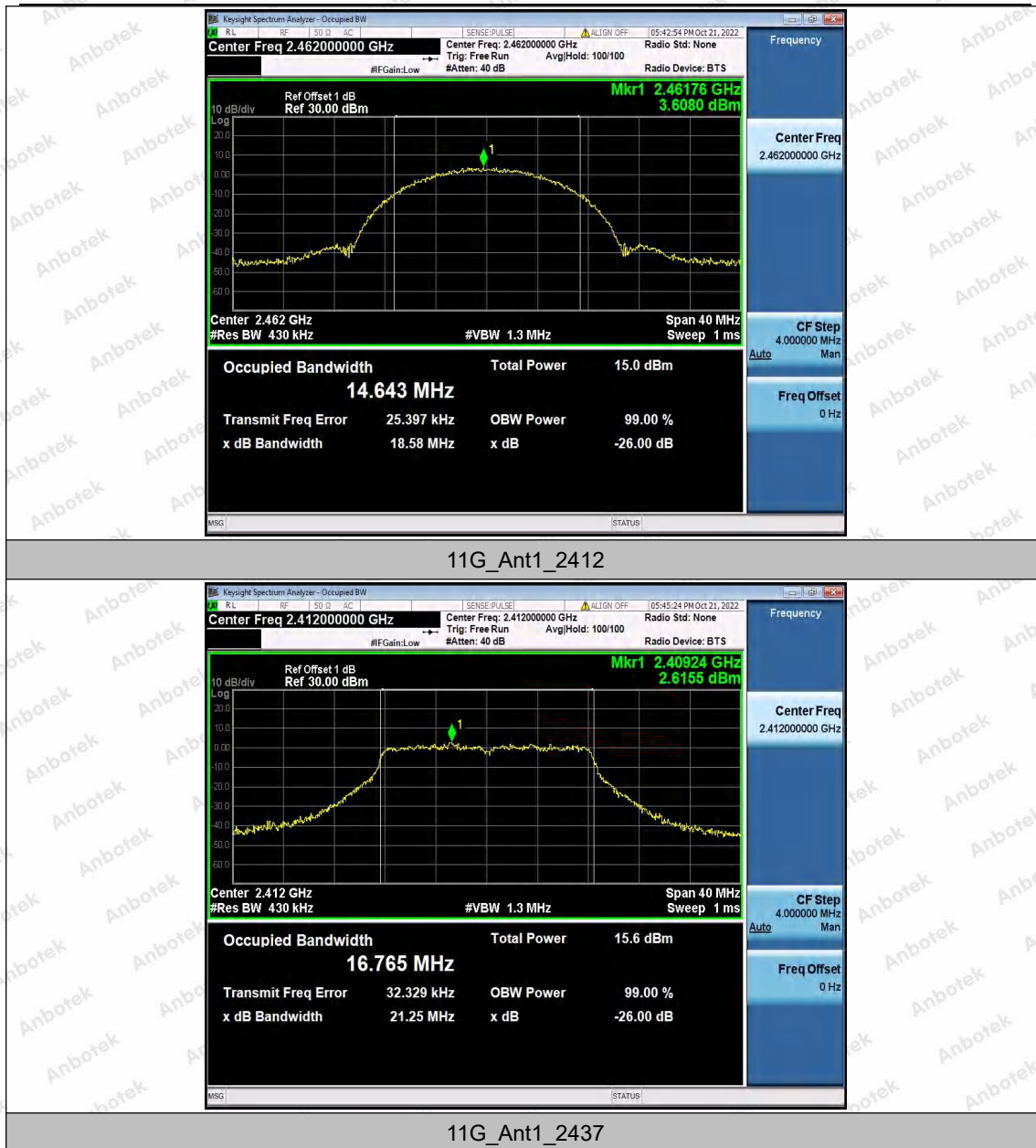


11B_Ant1_2437



11B_Ant1_2462





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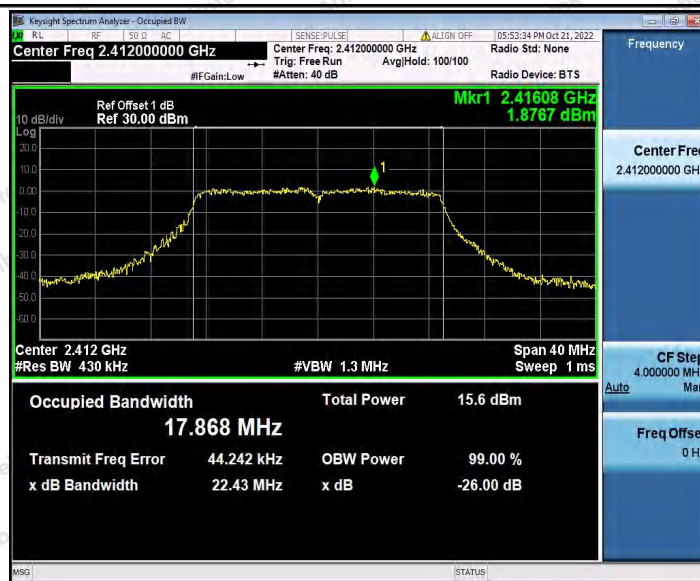
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11N20_Ant1_2437



11N20_Ant1_2462



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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	15.25	≤30.00
		2437	14.71	≤30.00
		2462	14.52	≤30.00
11G	Ant1	2412	16.49	≤30.00
		2437	16.34	≤30.00
		2462	16.15	≤30.00
11N20	Ant1	2412	16.49	≤30.00
		2437	16.18	≤30.00
		2462	16.14	≤30.00

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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-14.09	≤8.00	PASS
		2437	-14.33	≤8.00	PASS
		2462	-15.12	≤8.00	PASS
11G	Ant1	2412	-15.48	≤8.00	PASS
		2437	-15.96	≤8.00	PASS
		2462	-17.62	≤8.00	PASS
11N20	Ant1	2412	-16.93	≤8.00	PASS
		2437	-17.53	≤8.00	PASS
		2462	-18.04	≤8.00	PASS

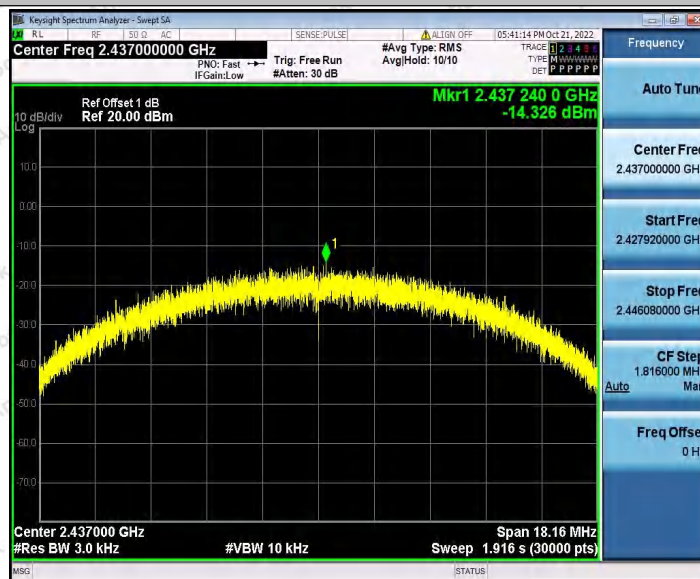


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

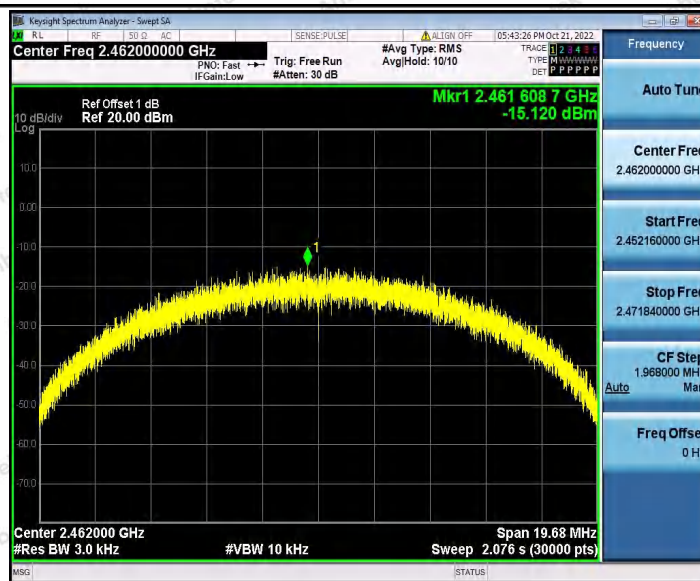
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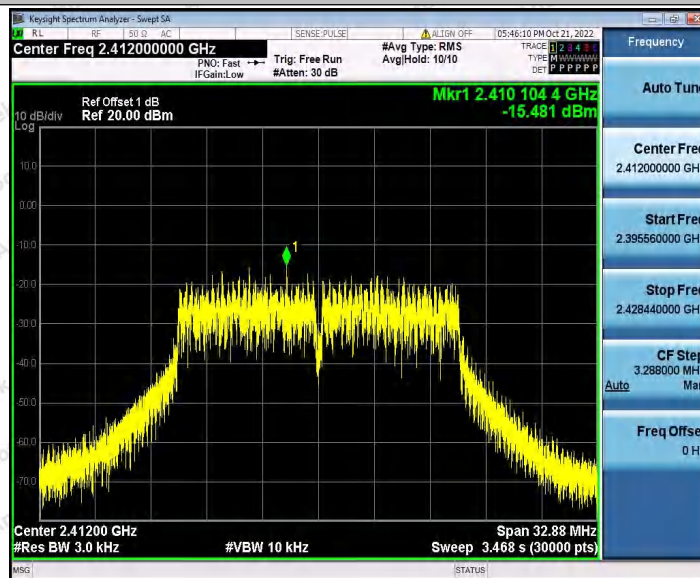


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11G_Ant1_2412



11G_Ant1_2437

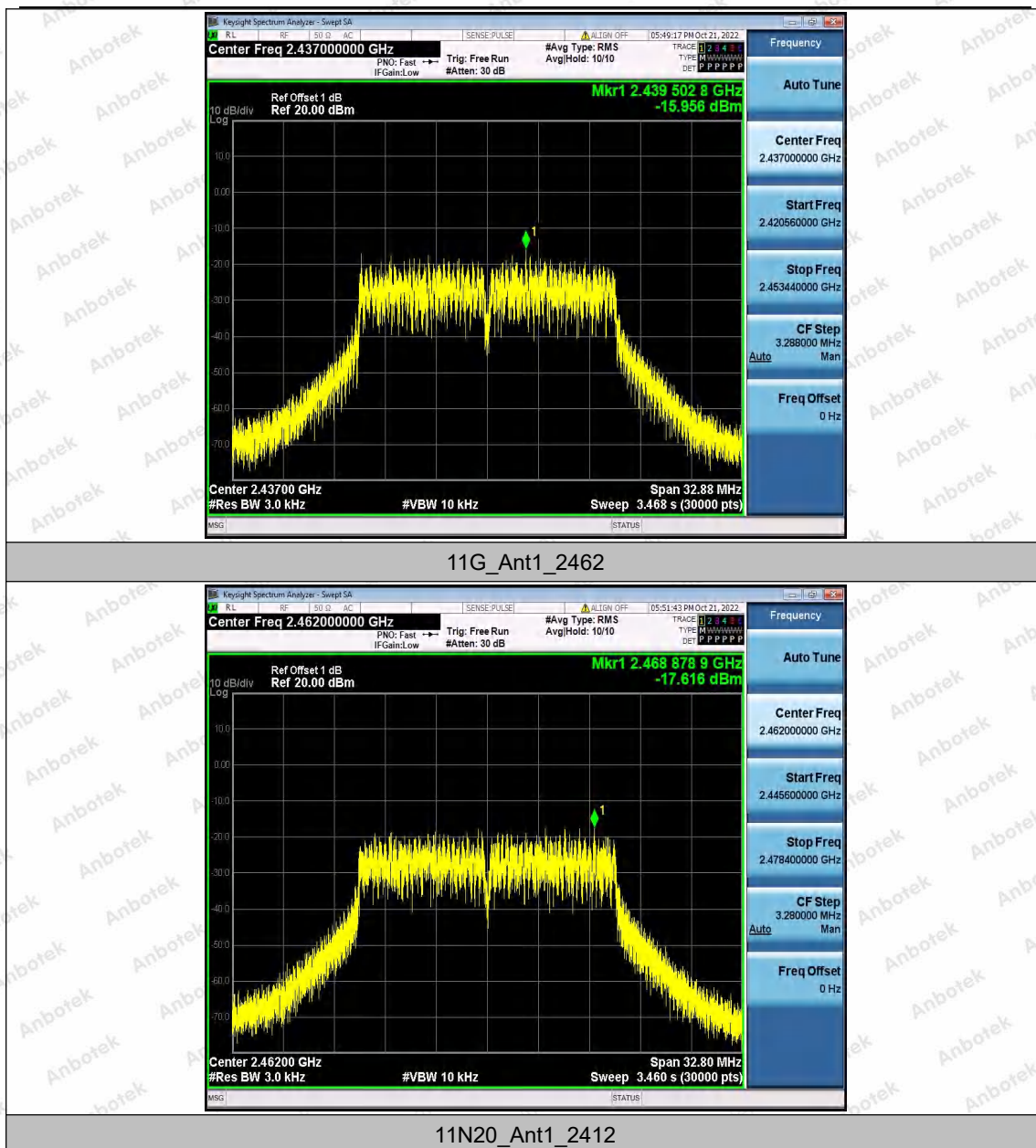
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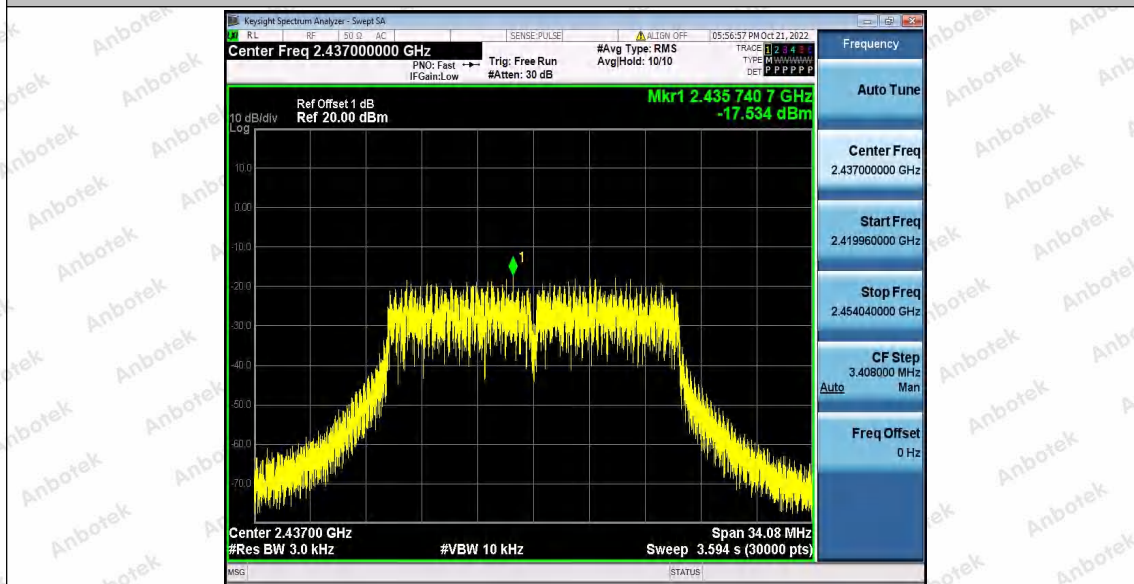
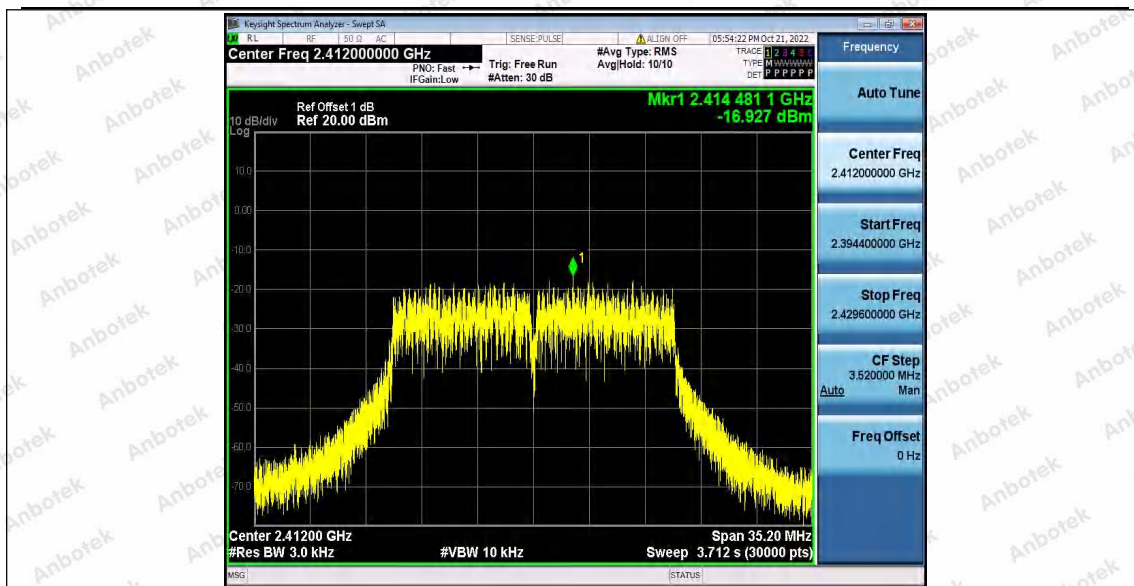
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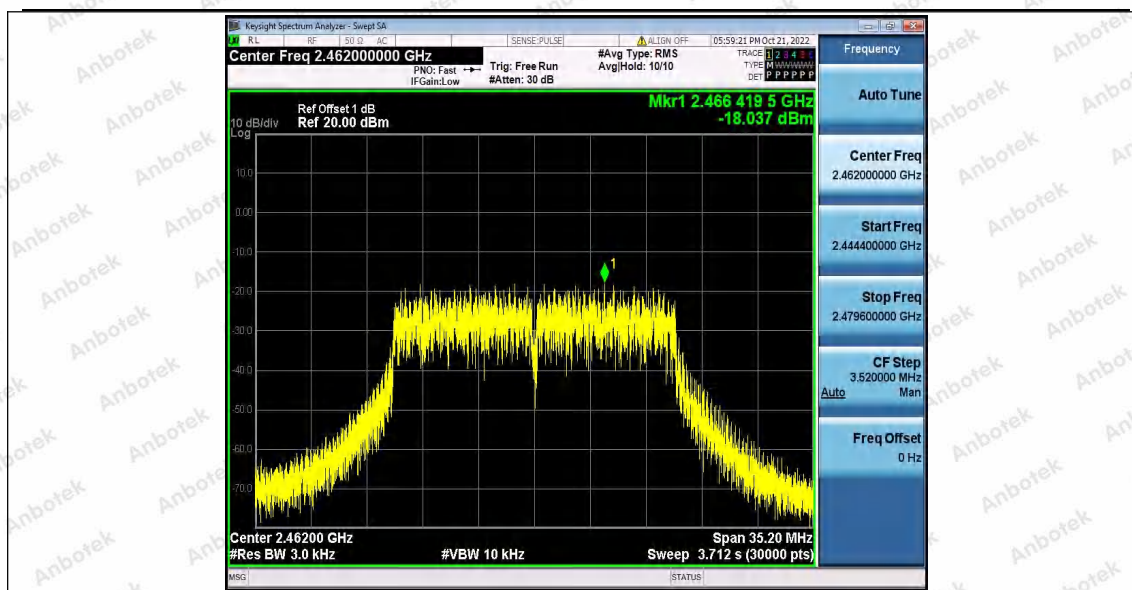
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Appendix E: Band edge measurements

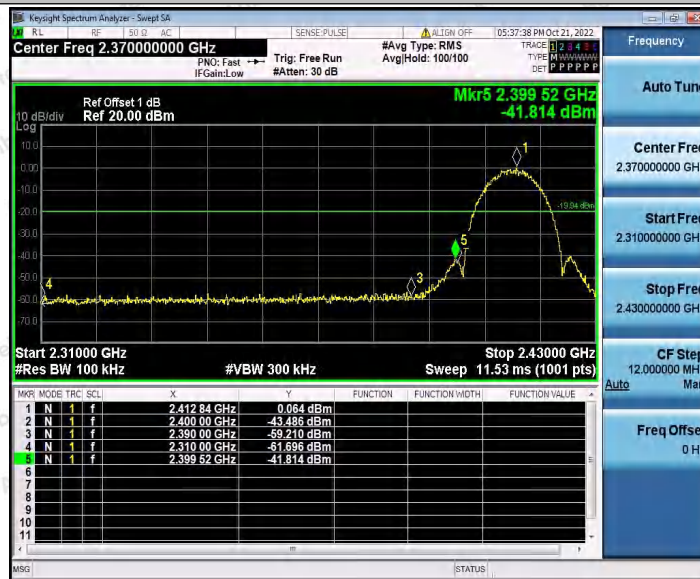
Test Result

TestMode	Antenna	Channel Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	0.06	-41.81	≤-19.94	PASS
		High	2462	-0.23	-56.12	≤-20.23	PASS
11G	Ant1	Low	2412	-2.00	-38.63	≤-22	PASS
		High	2462	-2.19	-56.41	≤-22.19	PASS
11N20	Ant1	Low	2412	-2.10	-38.45	≤-22.1	PASS
		High	2462	-2.06	-51.01	≤-22.06	PASS



Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

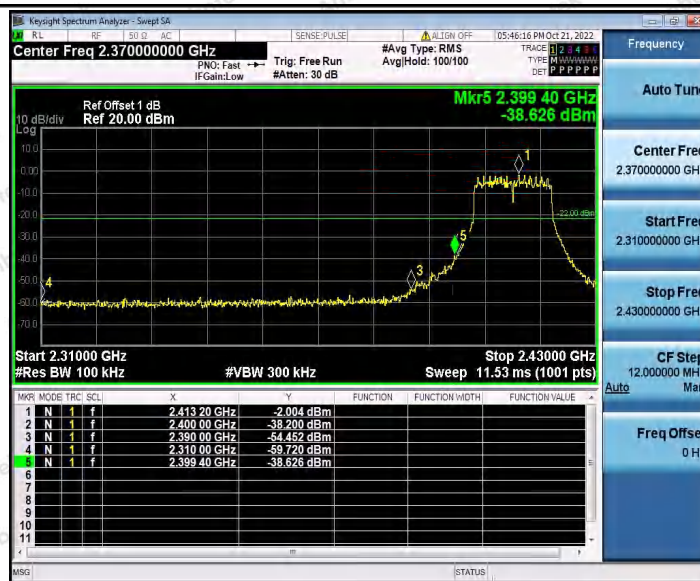
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11G_Ant1_High_2462



11N20_Ant1_Low_2412

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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-1.84	-1.84	---	PASS
			30~1000	-1.84	-64.94	≤-21.84	PASS
			1000~26500	-1.84	-53.95	≤-21.84	PASS
		2437	Reference	-1.66	-1.66	---	PASS
			30~1000	-1.66	-62.25	≤-21.66	PASS
			1000~26500	-1.66	-54.02	≤-21.66	PASS
		2462	Reference	-1.82	-1.82	---	PASS
			30~1000	-1.82	-66.11	≤-21.82	PASS
			1000~26500	-1.82	-52.31	≤-21.82	PASS
11G	Ant1	2412	Reference	-2.21	-2.21	---	PASS
			30~1000	-2.21	-61.69	≤-22.21	PASS
			1000~26500	-2.21	-53.64	≤-22.21	PASS
		2437	Reference	-3.49	-3.49	---	PASS
			30~1000	-3.49	-62.12	≤-23.49	PASS
			1000~26500	-3.49	-53.25	≤-23.49	PASS
		2462	Reference	-2.27	-2.27	---	PASS
			30~1000	-2.27	-62.98	≤-22.27	PASS
			1000~26500	-2.27	-52.79	≤-22.27	PASS
11N20	Ant1	2412	Reference	-1.95	-1.95	---	PASS
			30~1000	-1.95	-62	≤-21.95	PASS
			1000~26500	-1.95	-53.65	≤-21.95	PASS
		2437	Reference	-2.41	-2.41	---	PASS
			30~1000	-2.41	-62.27	≤-22.41	PASS
			1000~26500	-2.41	-53.45	≤-22.41	PASS
		2462	Reference	-2.93	-2.93	---	PASS
			30~1000	-2.93	-61.48	≤-22.93	PASS
			1000~26500	-2.93	-53.7	≤-22.93	PASS

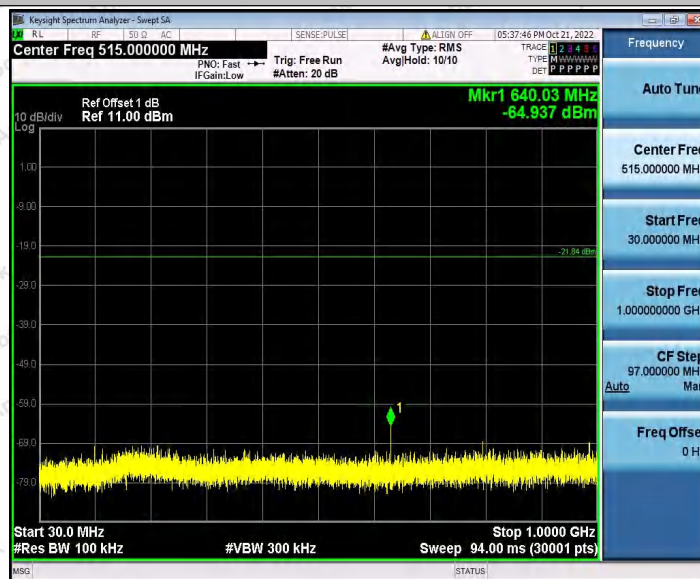


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

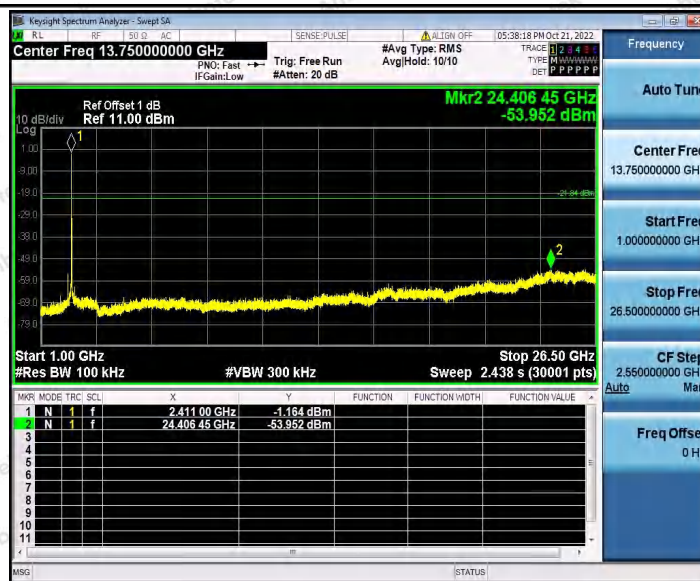
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

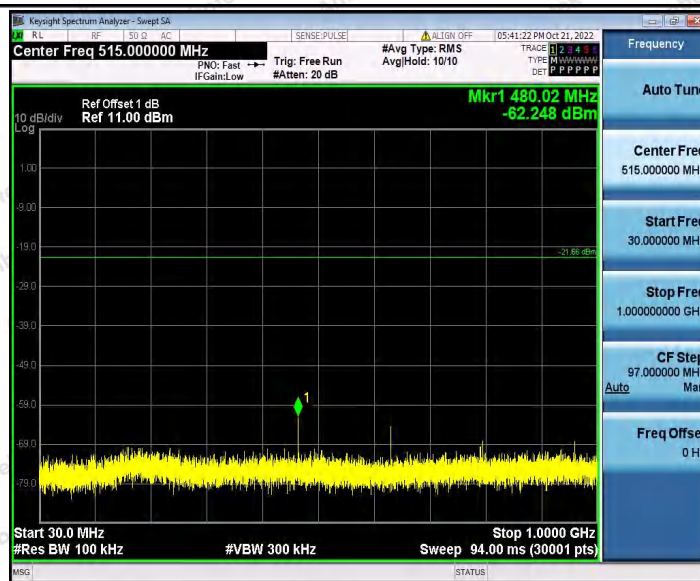
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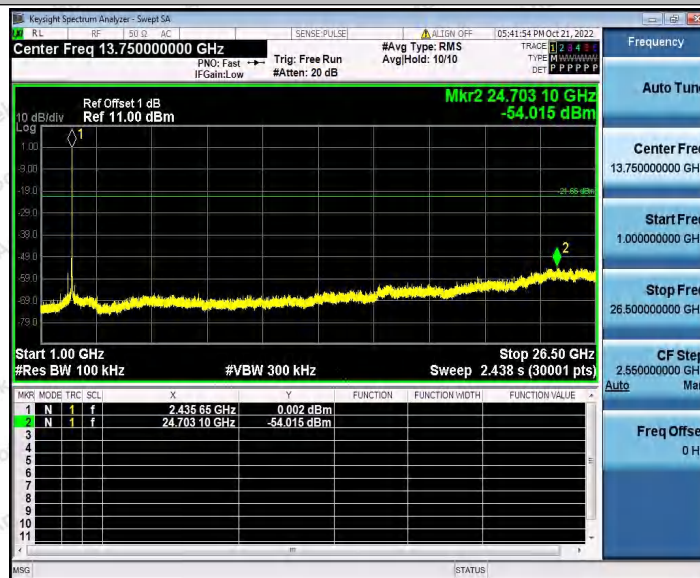


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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference

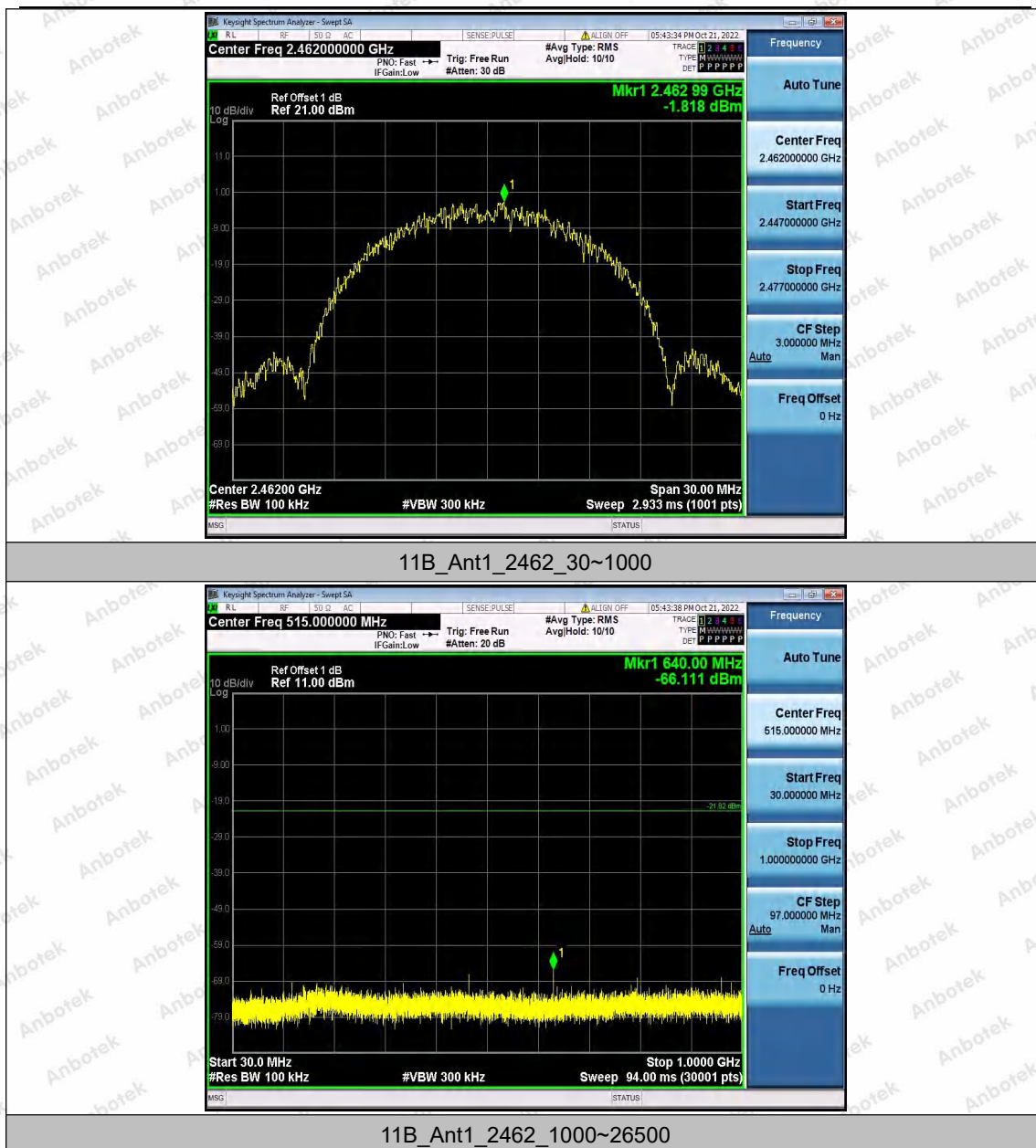
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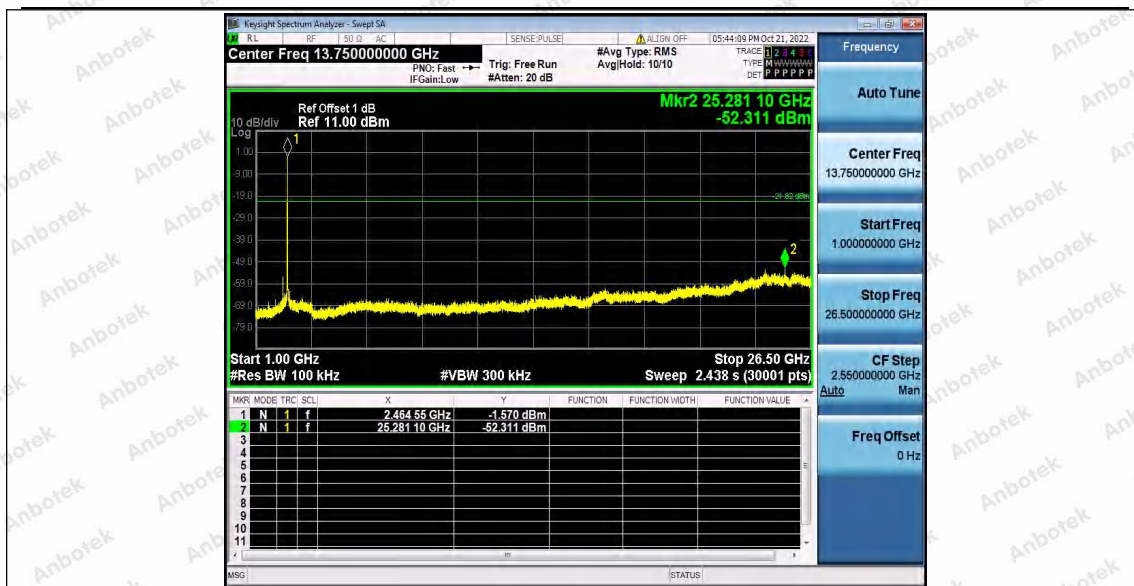
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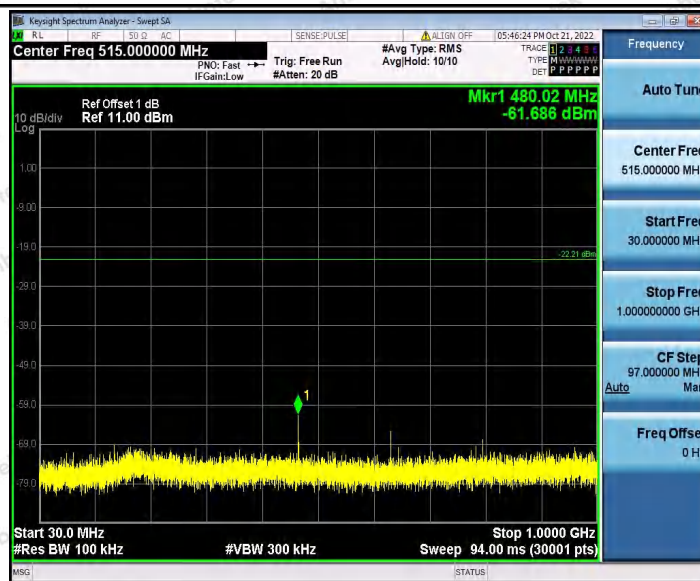


11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000





11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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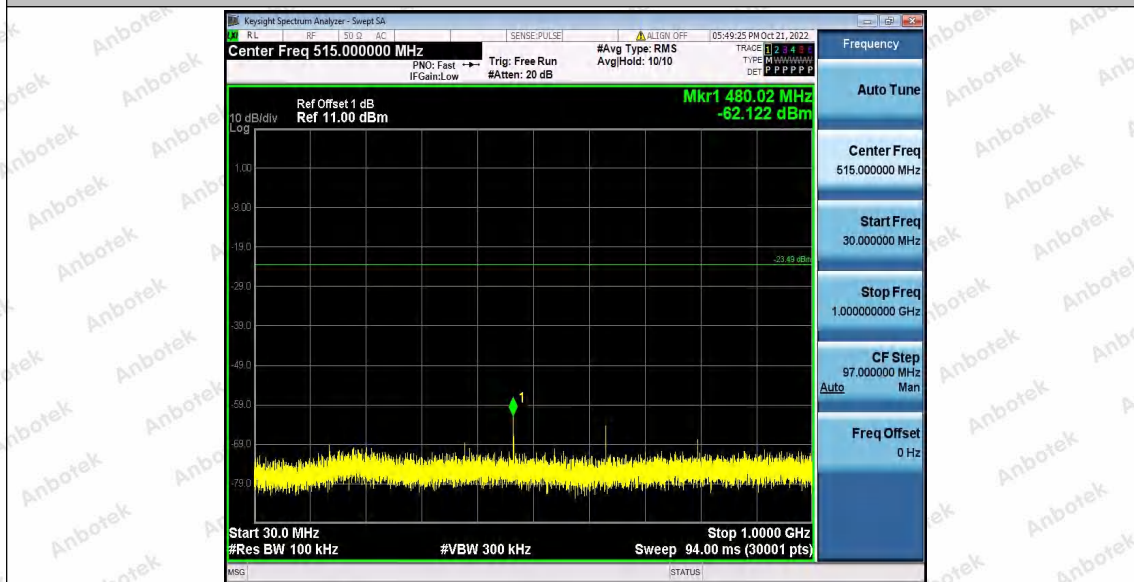


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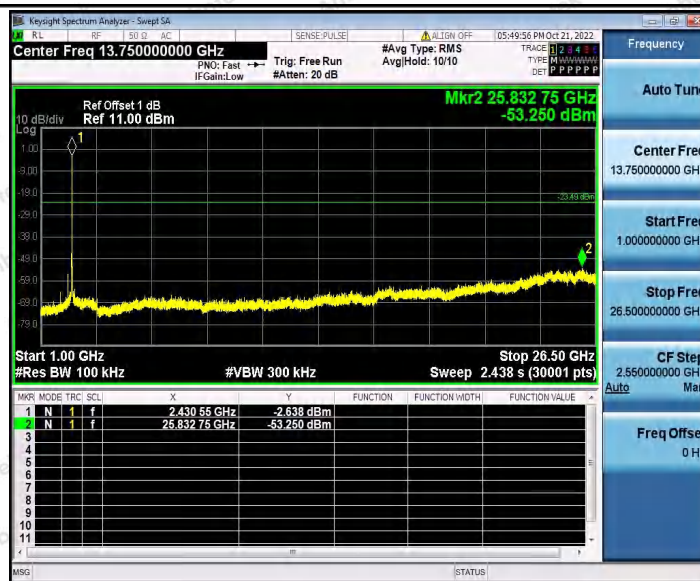


11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500





11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000

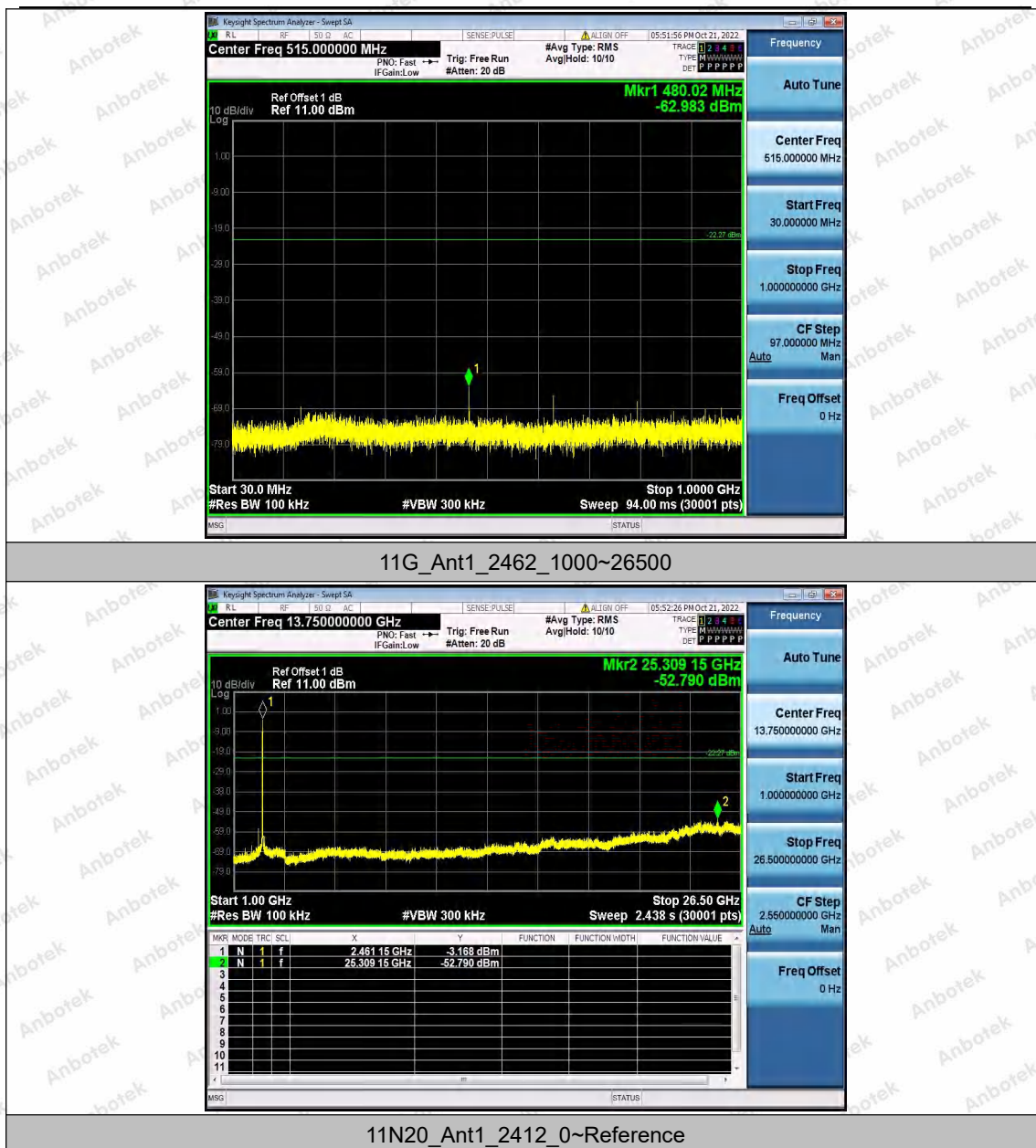
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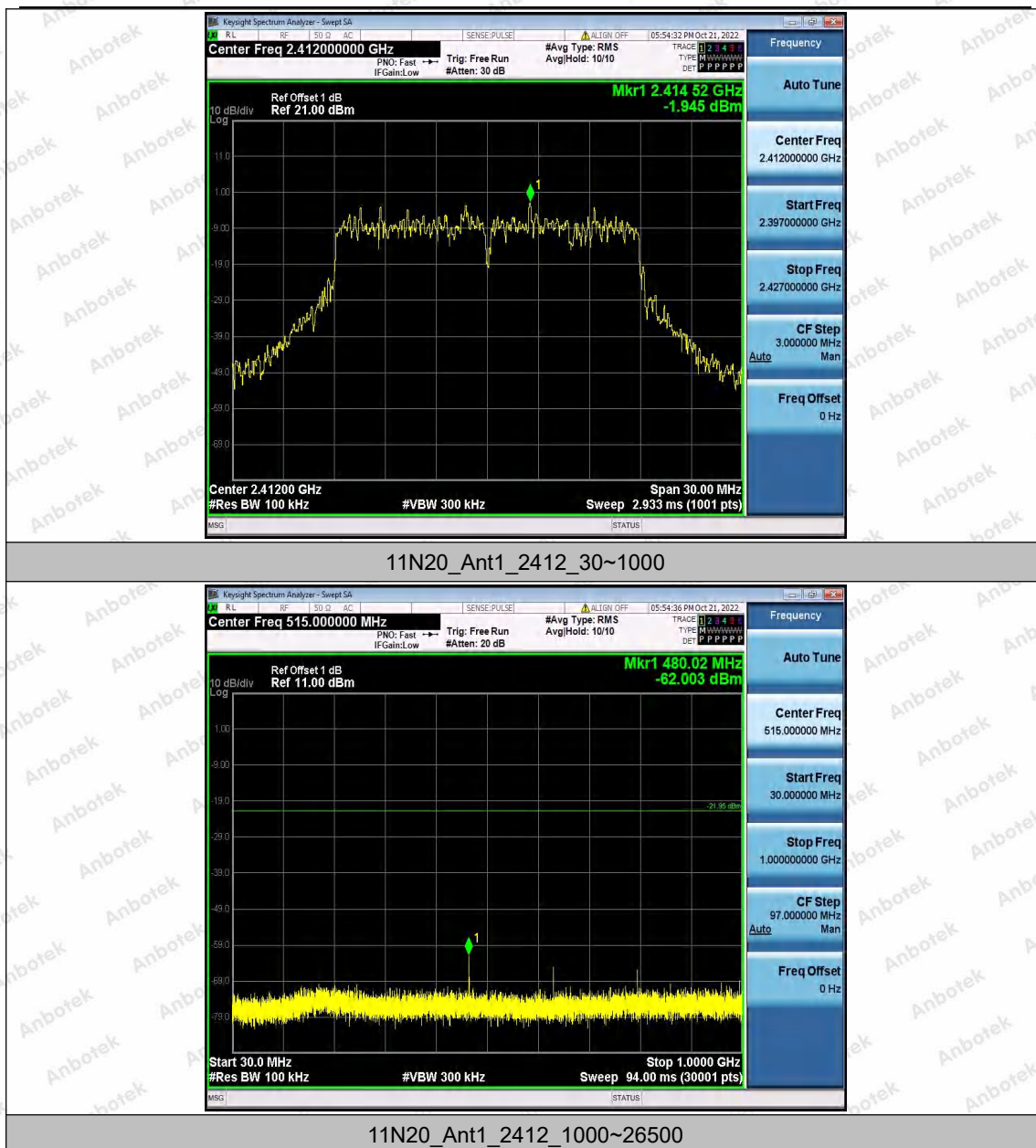
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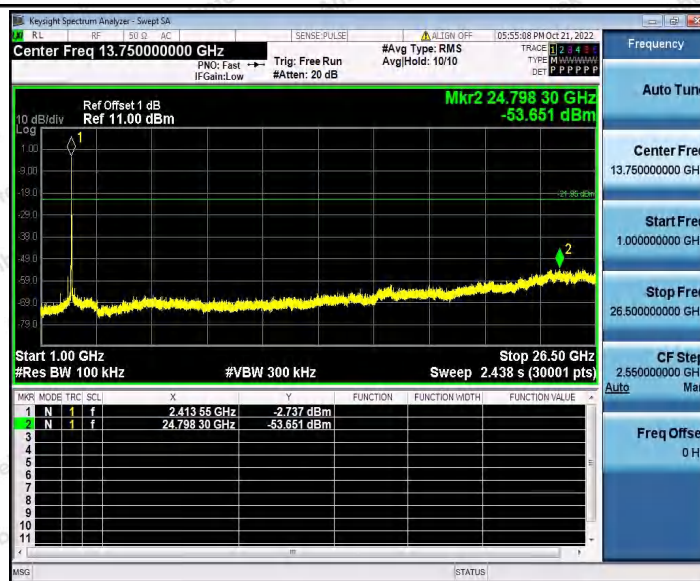
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11N20_Ant1_2437_0~Reference



11N20_Ant1_2437_30~1000

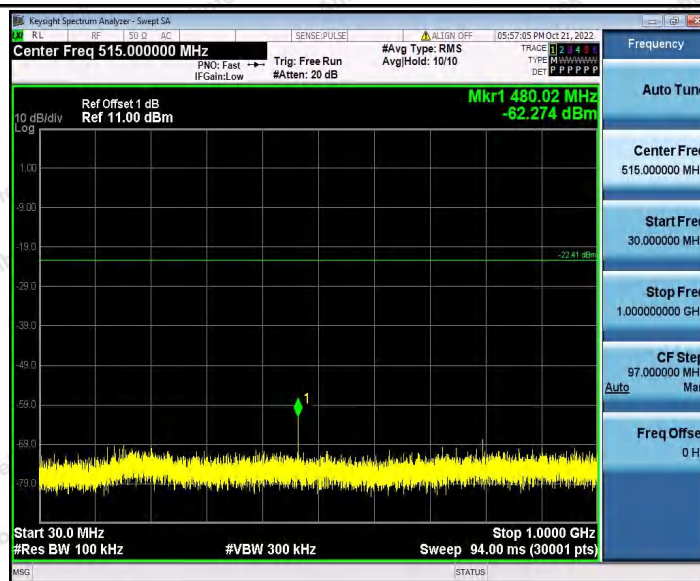
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11N20_Ant1_2437_1000~26500



11N20_Ant1_2462_0~Reference

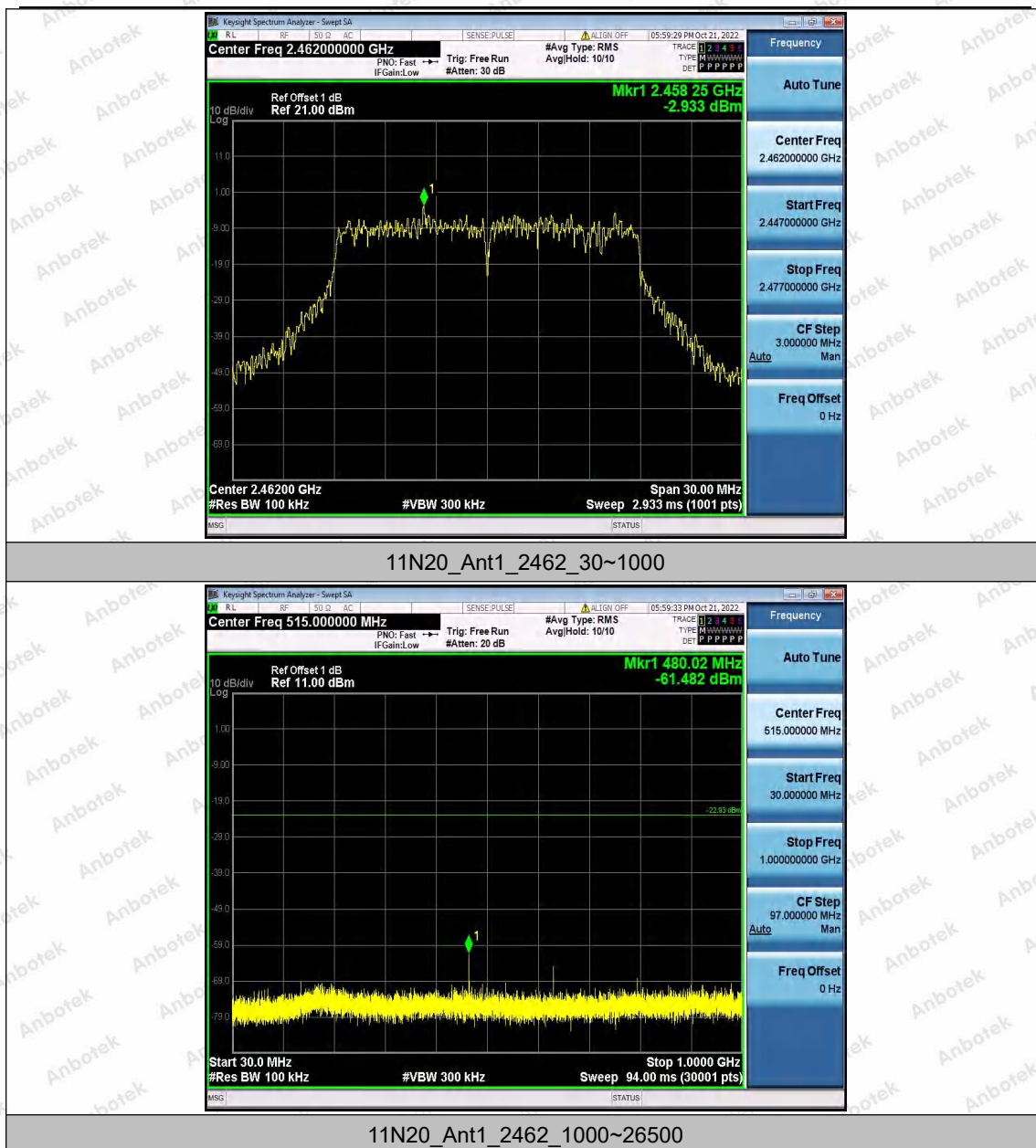
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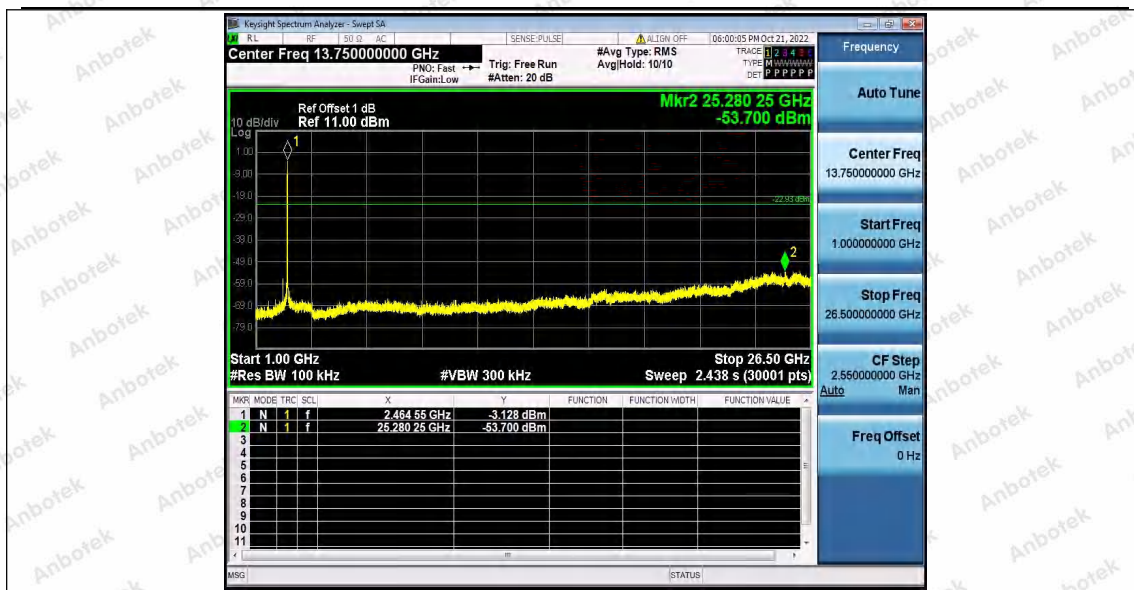
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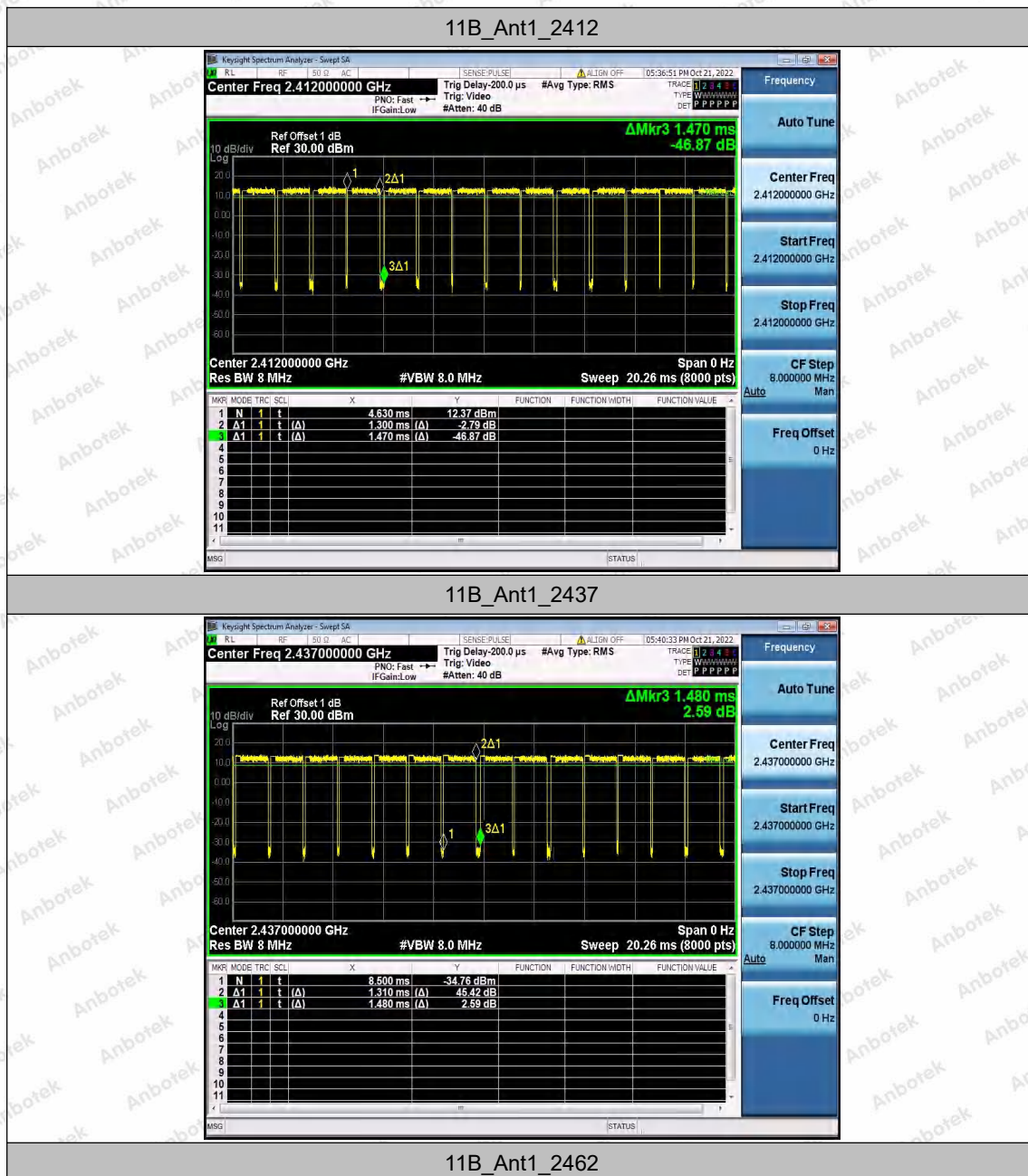
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	1.30	1.47	88.44	0.53
		2437	1.31	1.48	88.51	0.53
		2462	1.30	1.47	88.44	0.53
11G	Ant1	2412	0.25	0.42	59.52	2.25
		2437	0.24	0.41	58.54	2.33
		2462	0.25	0.42	59.52	2.25
11N20	Ant1	2412	0.22	0.39	56.41	2.49
		2437	0.22	0.52	42.31	3.74
		2462	0.23	0.39	58.97	2.29



Test Graphs



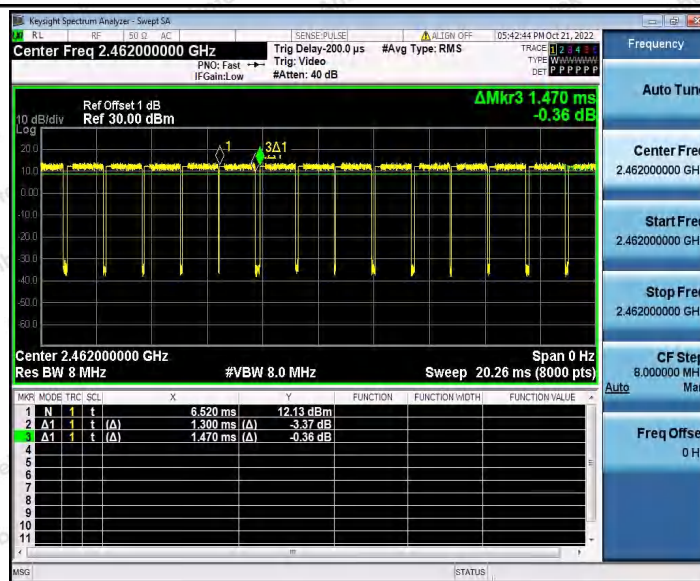
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

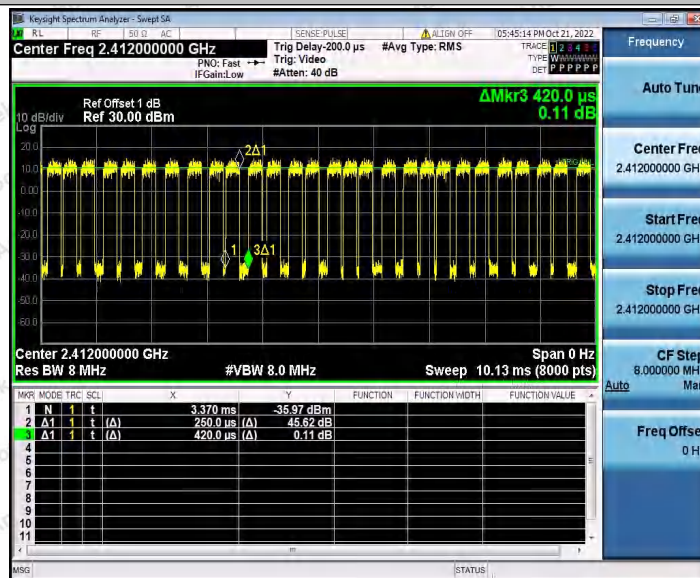


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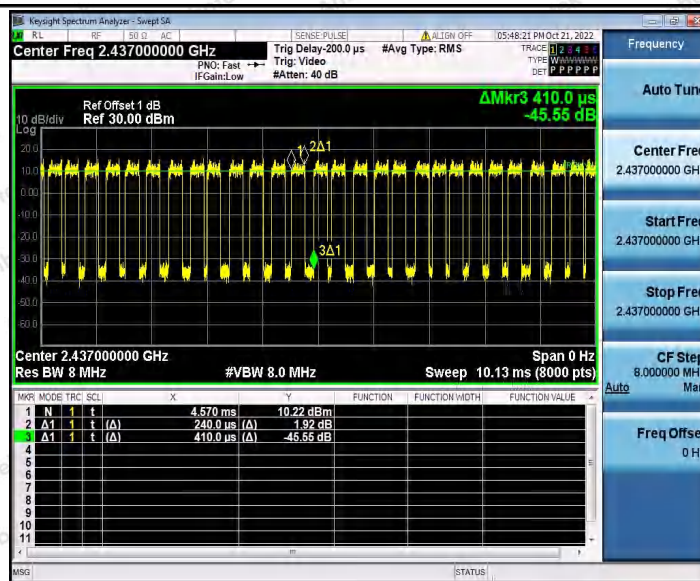


11G_Ant1_2412

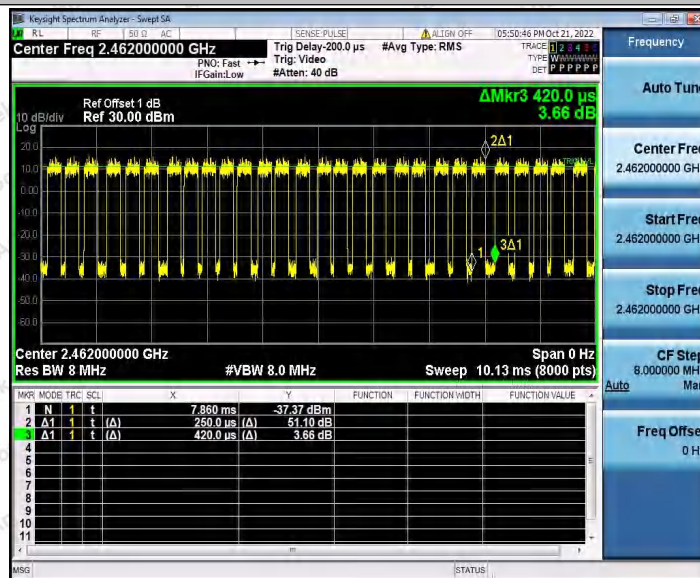


11G_Ant1_2437



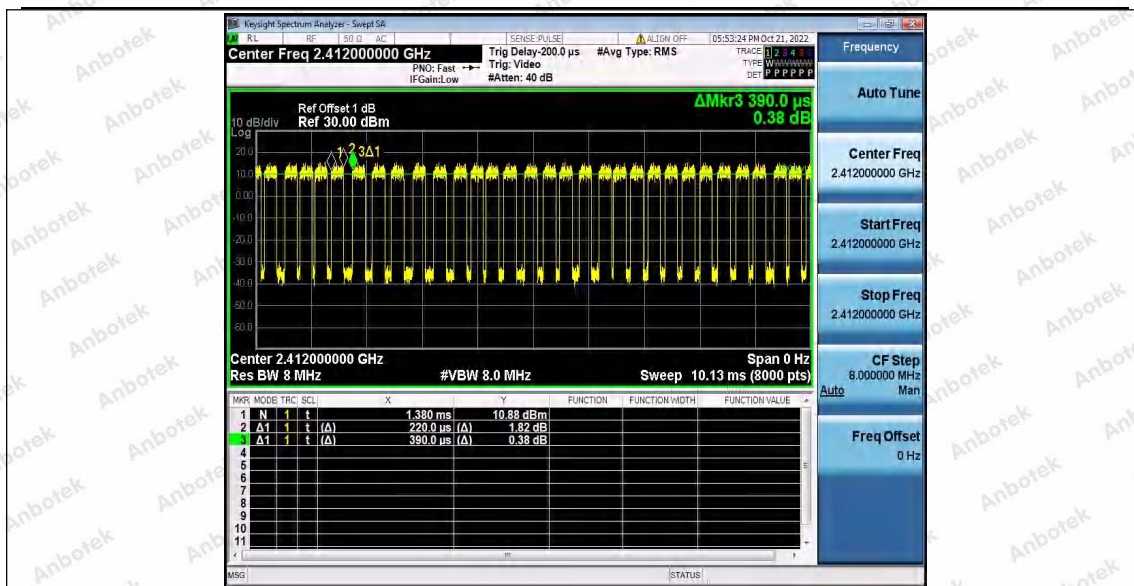


11G_Ant1_2462

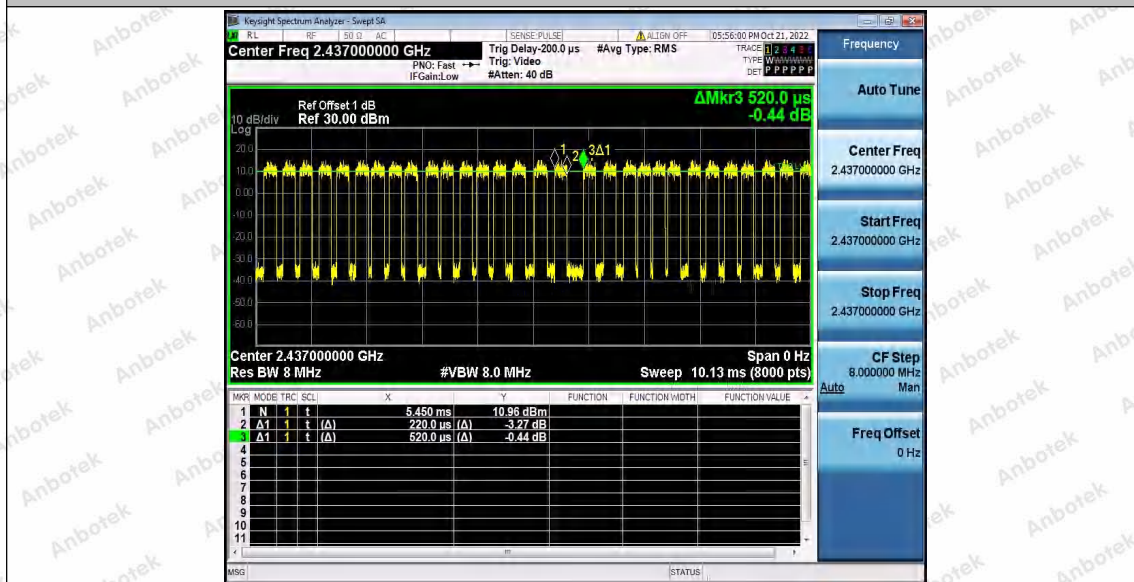


11N20_Ant1_2412



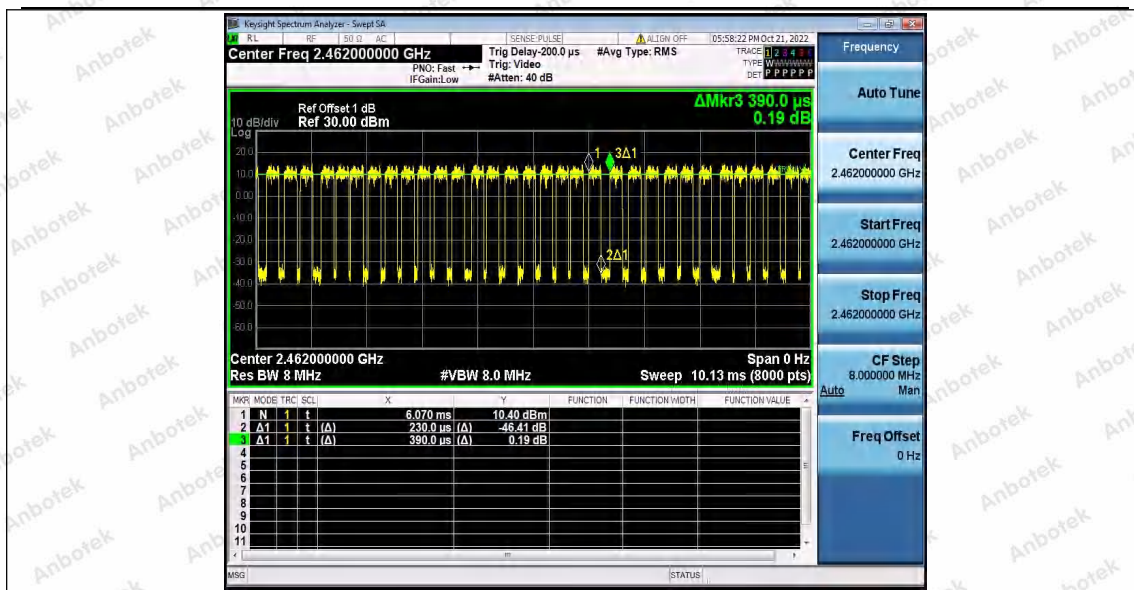


11N20_Ant1_2437



11N20_Ant1_2462





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