

Appendix Test Data

Report No.:	18220WC20210401	Test Sample No.:	1-2-2
Start Test Date:	2022.9.7	Finish Test Date:	2022.9.13
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

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.760	2407.160	2416.920	≥0.5	PASS
		2437	10.080	2432.080	2442.160	≥0.5	PASS
		2462	9.680	2457.320	2467.000	≥0.5	PASS
11G	Ant1	2412	16.480	2403.760	2420.240	≥0.5	PASS
		2437	16.480	2428.760	2445.240	≥0.5	PASS
		2462	16.440	2453.760	2470.200	≥0.5	PASS
11N20	Ant1	2412	17.680	2403.160	2420.840	≥0.5	PASS
		2437	17.680	2428.160	2445.840	≥0.5	PASS
		2462	17.720	2453.160	2470.880	≥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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11G_Ant1_2462



11N20_Ant1_2412



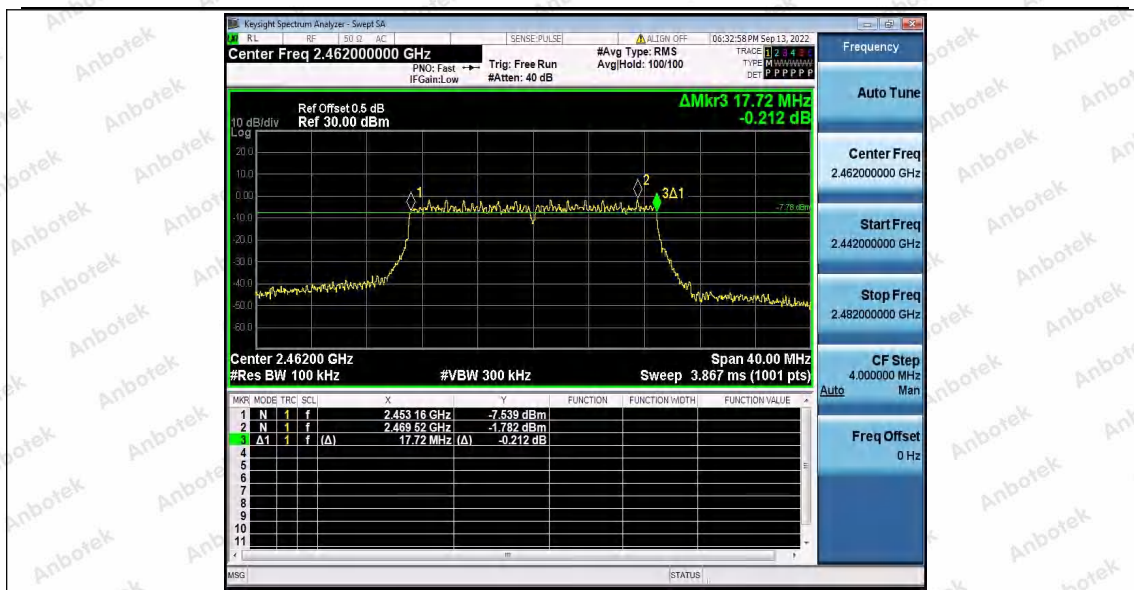


11N20_Ant1_2437



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]
11B	Ant1	2412	13.194	2405.4452	2418.6392
		2437	13.144	2430.4488	2443.5928
		2462	13.069	2455.5003	2468.5693
11G	Ant1	2412	16.714	2403.6585	2420.3725
		2437	16.770	2428.6581	2445.4281
		2462	16.766	2453.6453	2470.4113
11N20	Ant1	2412	17.837	2403.1243	2420.9613
		2437	17.822	2428.0977	2445.9197
		2462	17.822	2453.1166	2470.9386



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

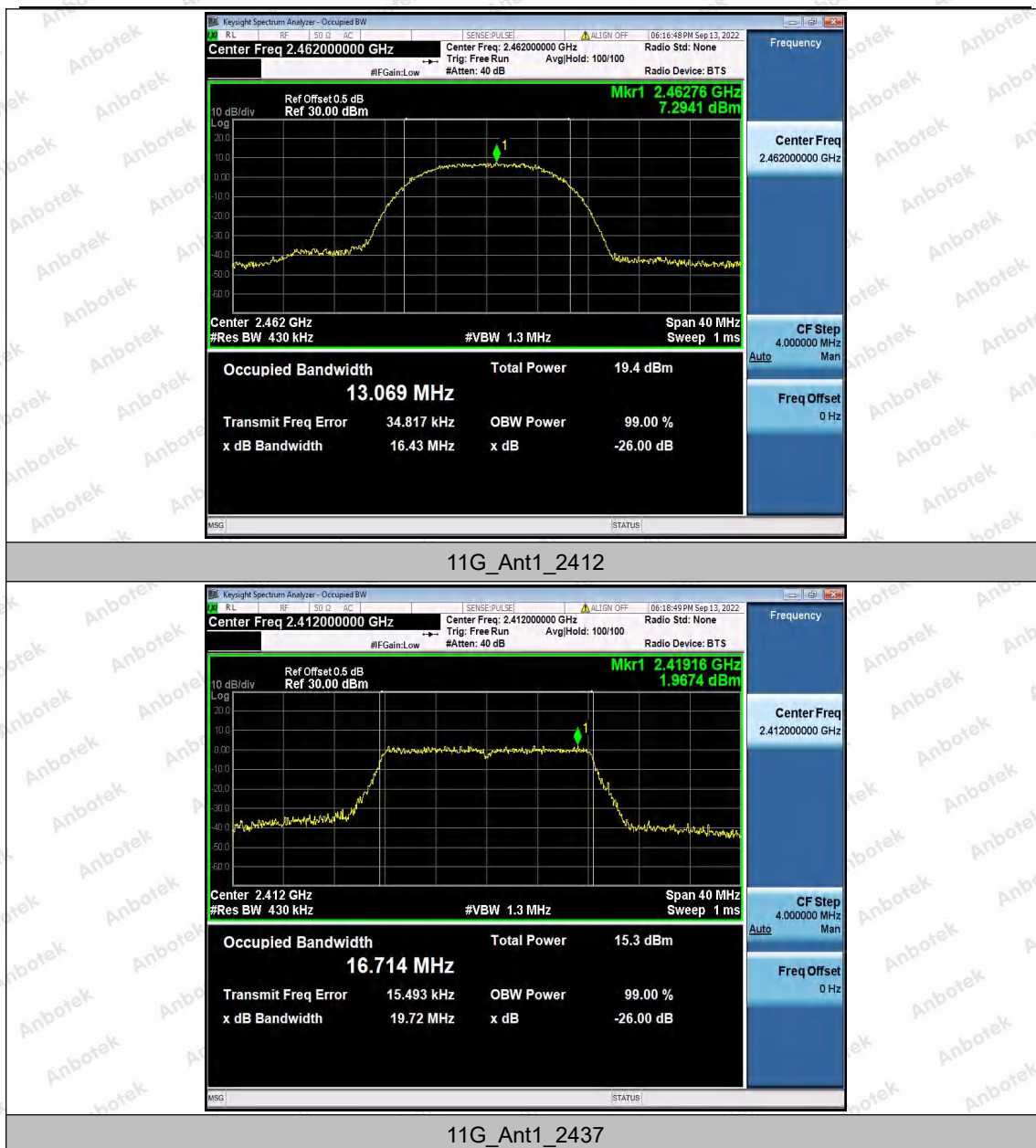
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11G_Ant1_2462



11N20_Ant1_2412

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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Peak Power [dBm]	Conducted Limit[dBm]	EIRP [dBm]	EIRP Limit[dBm]	Verdict
11B	Ant1	2412	17.33	≤30.00	19.35	≤36.00	PASS
		2437	16.99	≤30.00	19.01	≤36.00	PASS
		2462	18.84	≤30.00	20.86	≤36.00	PASS
11G	Ant1	2412	16.13	≤30.00	18.15	≤36.00	PASS
		2437	15.88	≤30.00	17.90	≤36.00	PASS
		2462	17.82	≤30.00	19.84	≤36.00	PASS
11N20	Ant1	2412	15.87	≤30.00	17.89	≤36.00	PASS
		2437	15.18	≤30.00	17.20	≤36.00	PASS
		2462	17.06	≤30.00	19.08	≤36.00	PASS



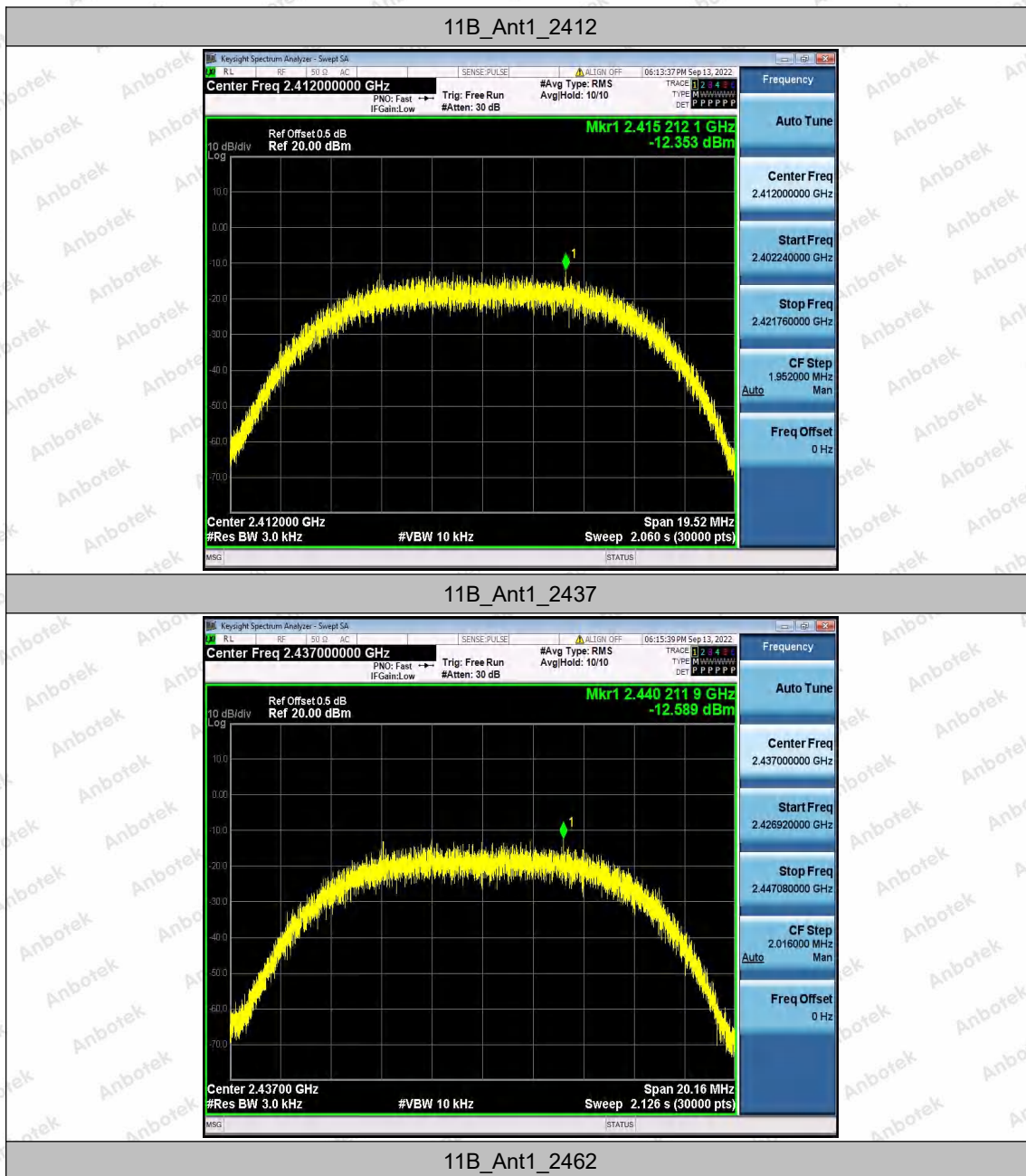
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.35	≤8.00	PASS
		2437	-12.59	≤8.00	PASS
		2462	-11.19	≤8.00	PASS
11G	Ant1	2412	-15.35	≤8.00	PASS
		2437	-16.62	≤8.00	PASS
		2462	-14.09	≤8.00	PASS
11N20	Ant1	2412	-17.36	≤8.00	PASS
		2437	-17.24	≤8.00	PASS
		2462	-16.19	≤8.00	PASS



Test Graphs



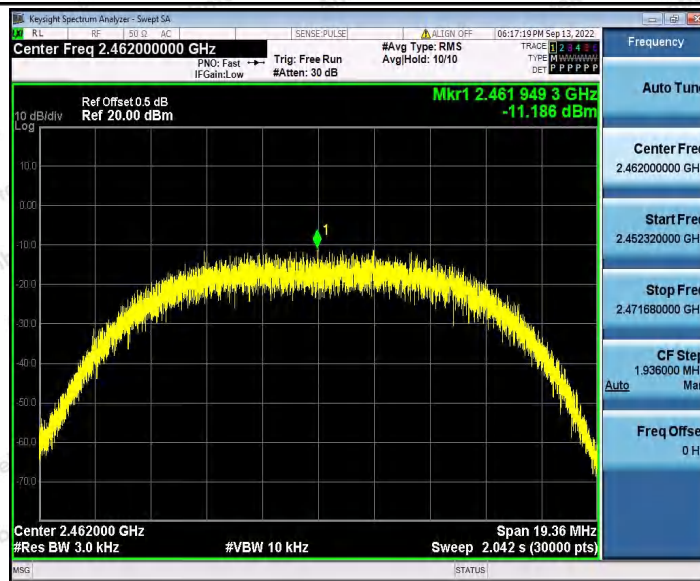
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11G_Ant1_2412



11G_Ant1_2437

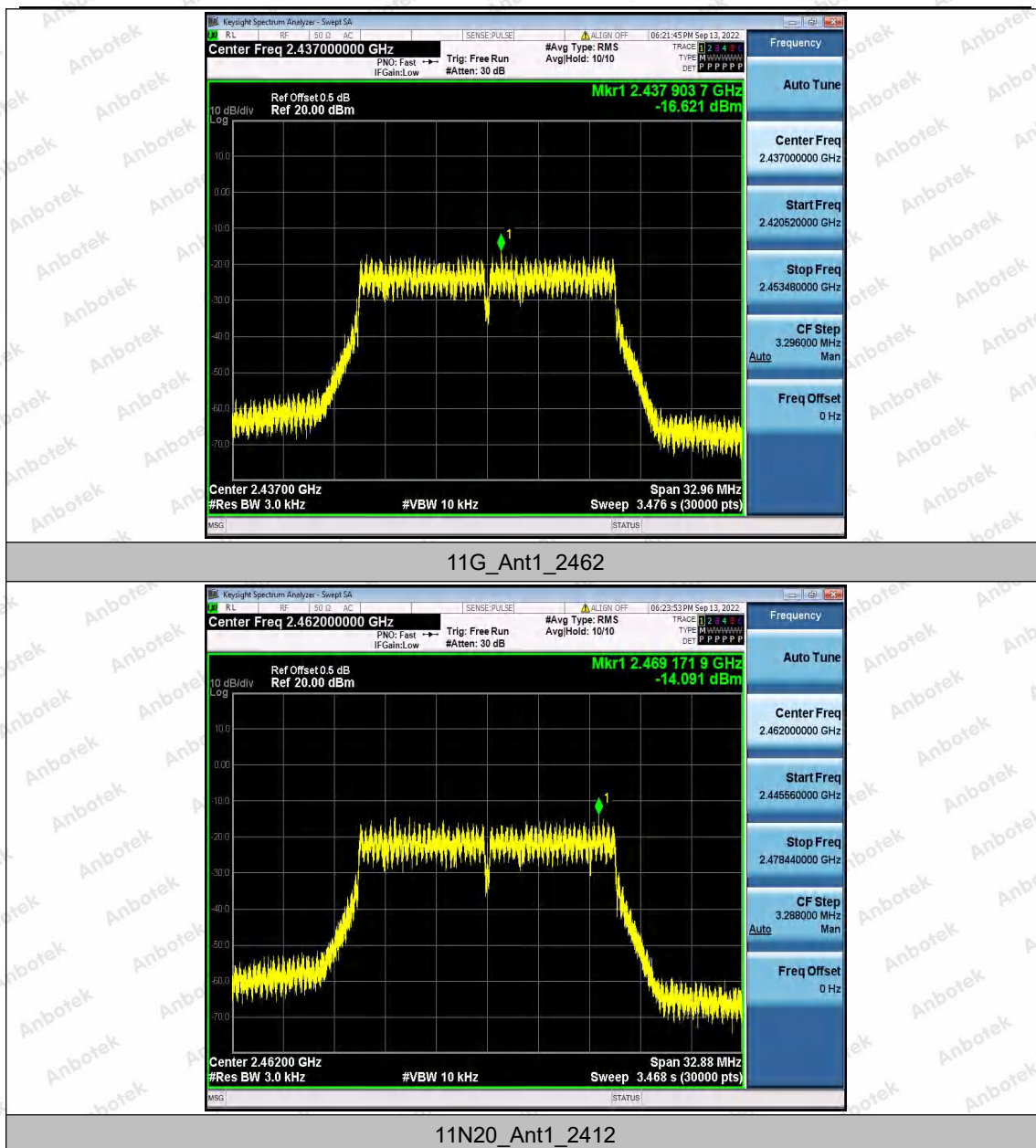
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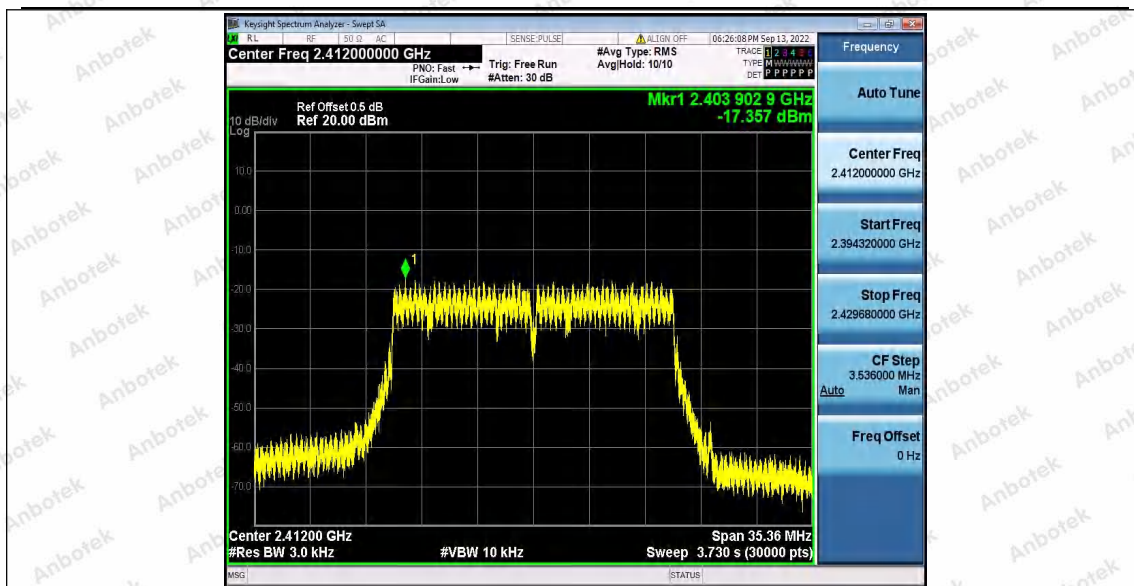
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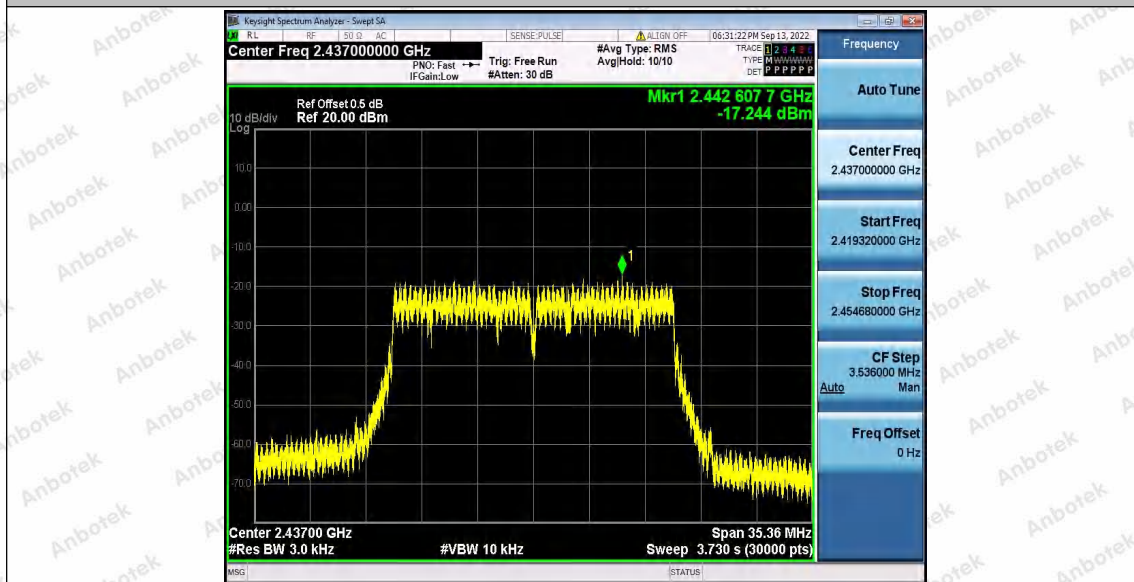


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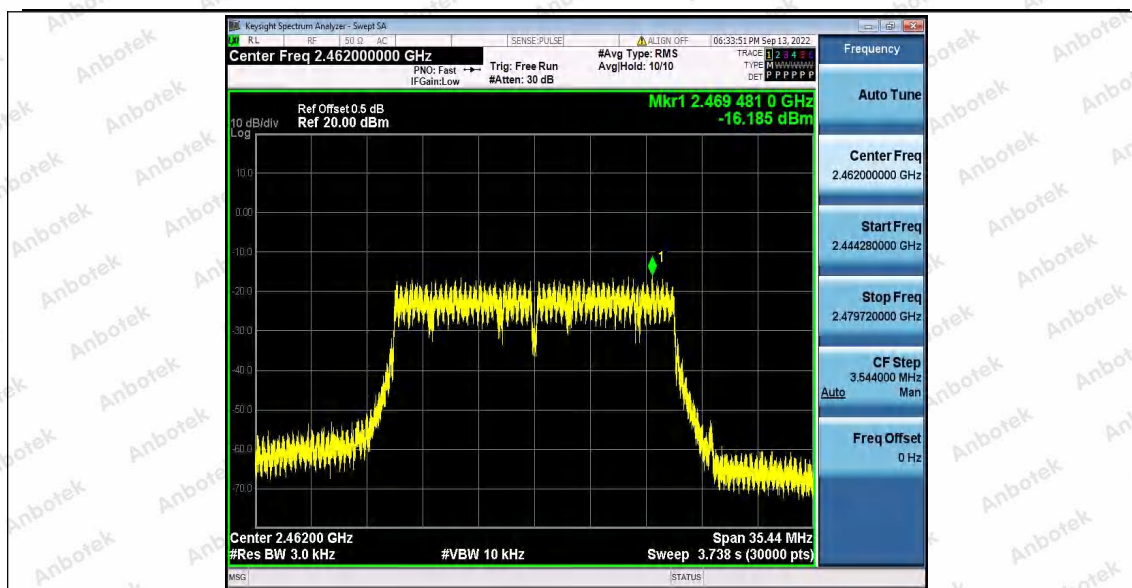


11N20_Ant1_2437



11N20_Ant1_2462



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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	1.91	-43.85	≤-18.09	PASS
		High	2462	3.66	-52.98	≤-16.35	PASS
11G	Ant1	Low	2412	-2.54	-38.72	≤-22.54	PASS
		High	2462	-1.21	-53.1	≤-21.21	PASS
11N20	Ant1	Low	2412	-2.96	-40.67	≤-22.96	PASS
		High	2462	-1.85	-50.14	≤-21.85	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	1.45	1.45	---	PASS
			30~1000	1.45	-68.43	≤-28.55	PASS
			1000~26500	1.45	-53.86	≤-28.55	PASS
		2437	Reference	1.24	1.24	---	PASS
			30~1000	1.24	-69.68	≤-28.76	PASS
			1000~26500	1.24	-53.76	≤-28.76	PASS
		2462	Reference	3.27	3.27	---	PASS
			30~1000	3.27	-67.05	≤-26.73	PASS
			1000~26500	3.27	-54.21	≤-26.73	PASS
11G	Ant1	2412	Reference	-3.01	-3.01	---	PASS
			30~1000	-3.01	-70.49	≤-33.01	PASS
			1000~26500	-3.01	-53.62	≤-33.01	PASS
		2437	Reference	-3.51	-3.51	---	PASS
			30~1000	-3.51	-68.98	≤-33.51	PASS
			1000~26500	-3.51	-54.25	≤-33.51	PASS
		2462	Reference	-0.95	-0.95	---	PASS
			30~1000	-0.95	-68.55	≤-30.95	PASS
			1000~26500	-0.95	-53.9	≤-30.95	PASS
11N20	Ant1	2412	Reference	-2.94	-2.94	---	PASS
			30~1000	-2.94	-68.58	≤-32.94	PASS
			1000~26500	-2.94	-53.88	≤-32.94	PASS
		2437	Reference	-3.78	-3.78	---	PASS
			30~1000	-3.78	-69.73	≤-33.78	PASS
			1000~26500	-3.78	-54.52	≤-33.78	PASS
		2462	Reference	-2.25	-2.25	---	PASS
			30~1000	-2.25	-70.23	≤-32.25	PASS
			1000~26500	-2.25	-54.82	≤-32.25	PASS

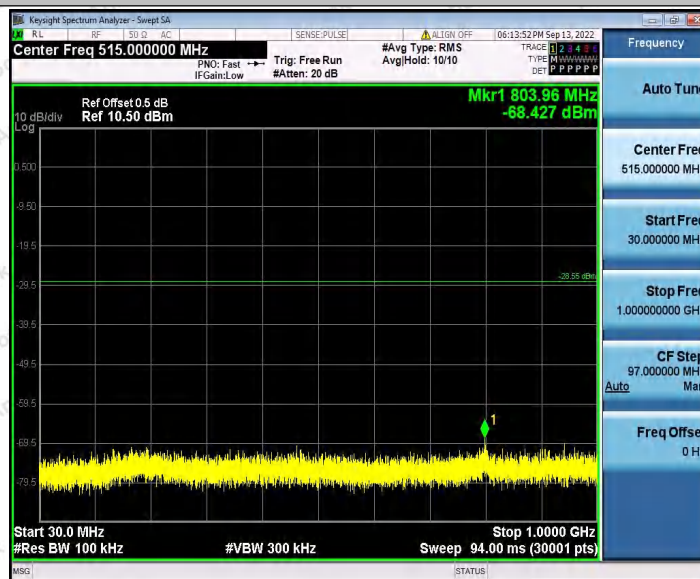


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

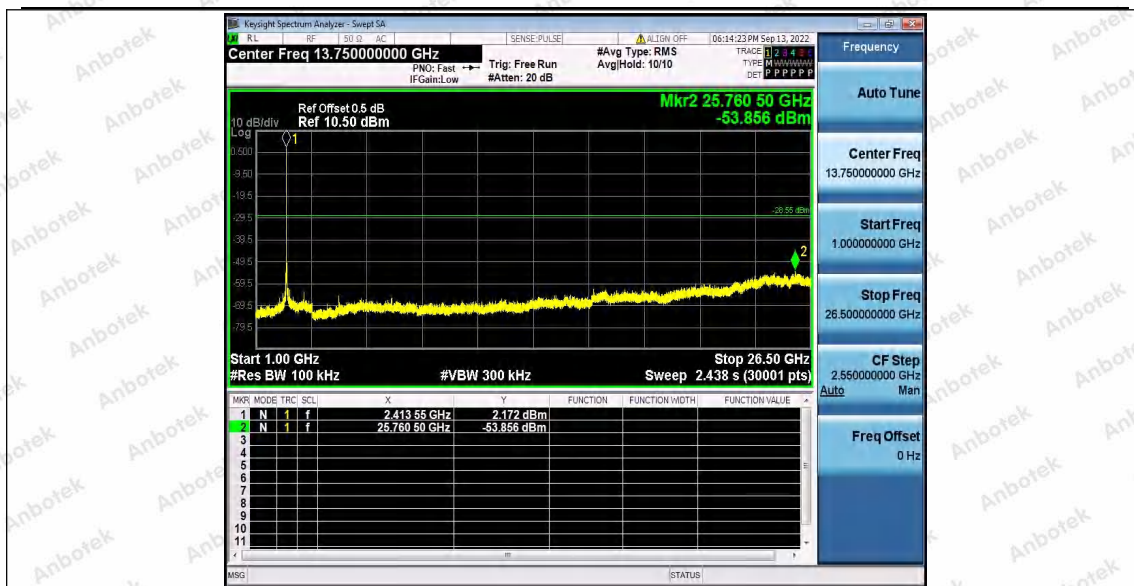
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000





11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference

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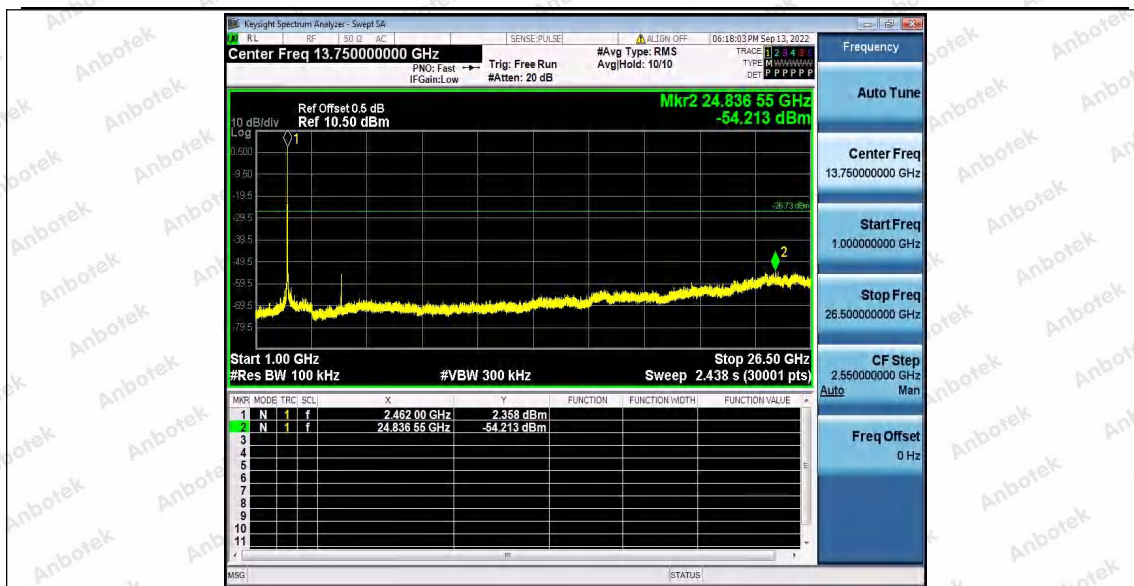


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11B_Ant1_2462_1000~26500



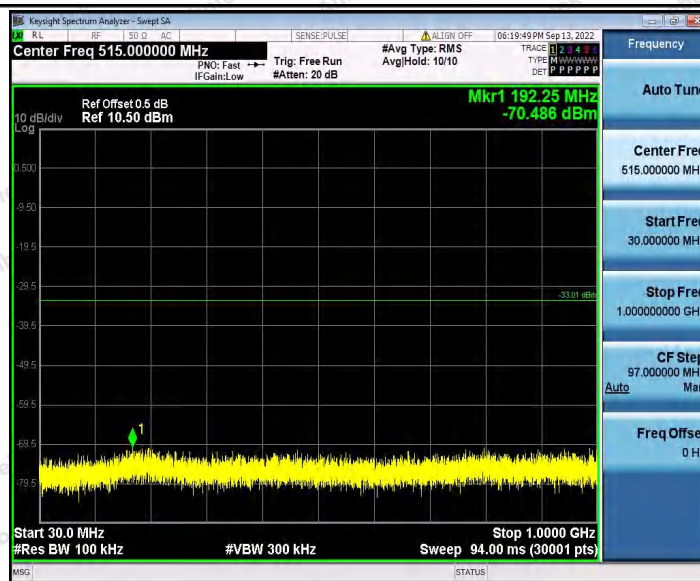


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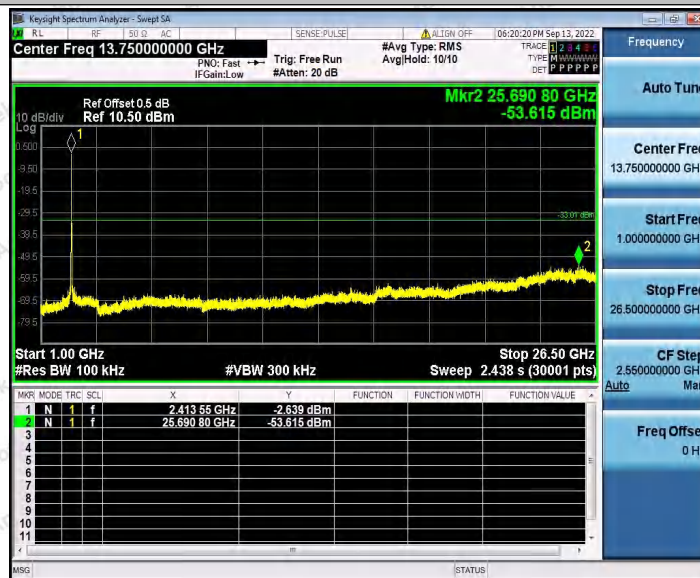


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11G_Ant1_2412_1000~26500



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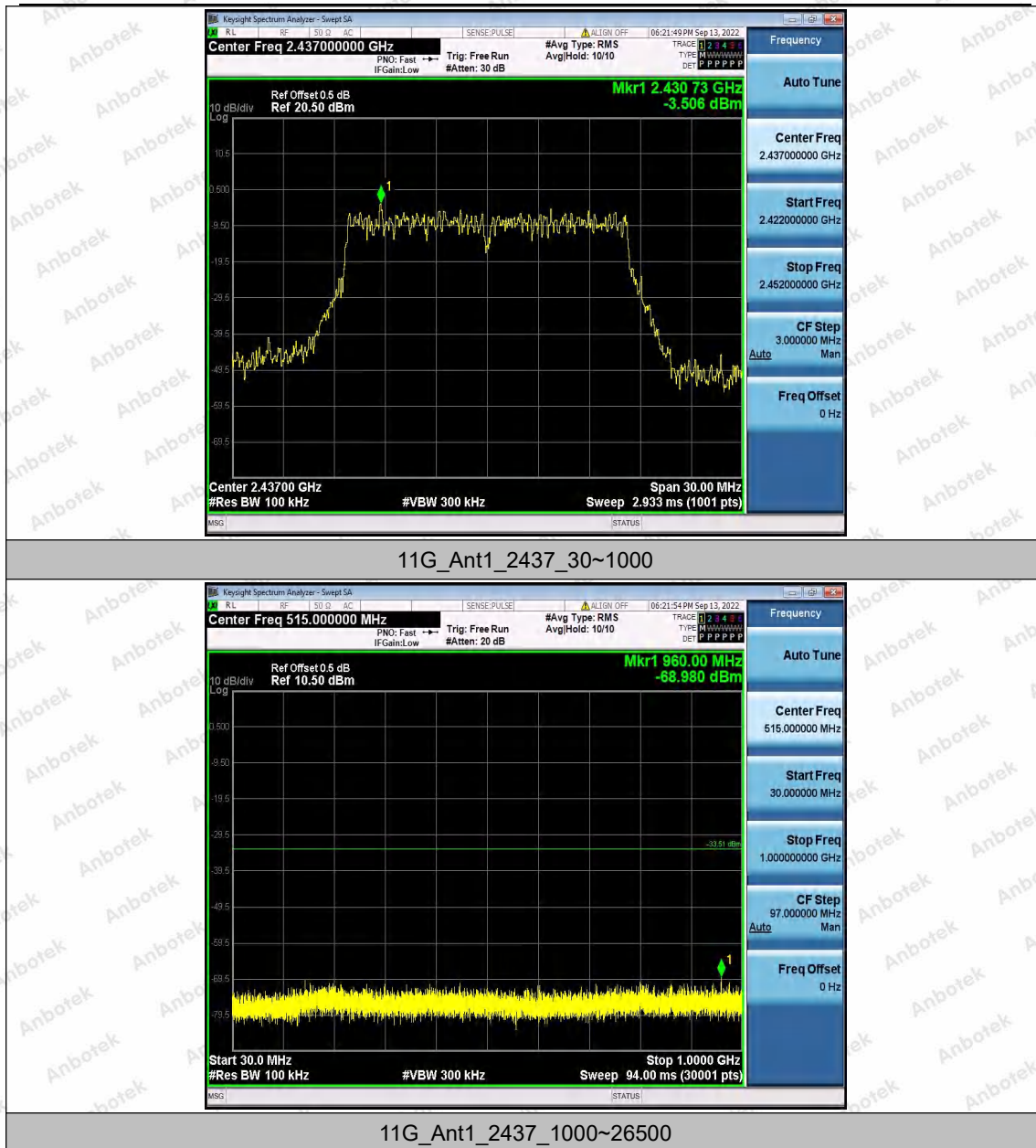
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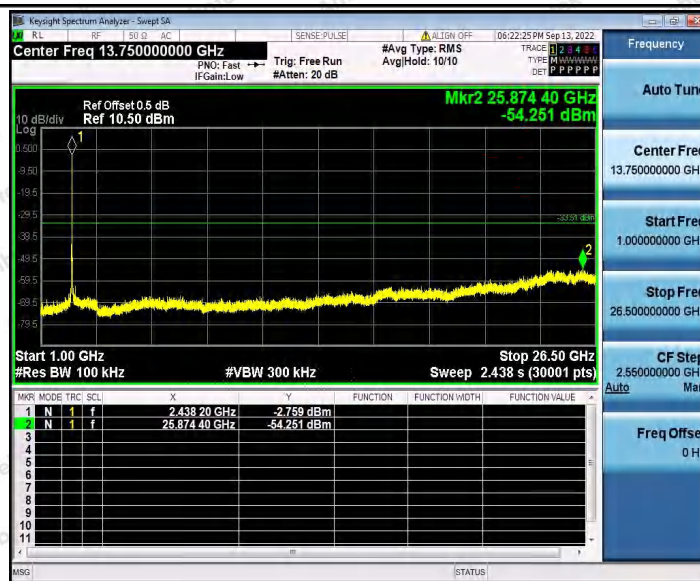
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000

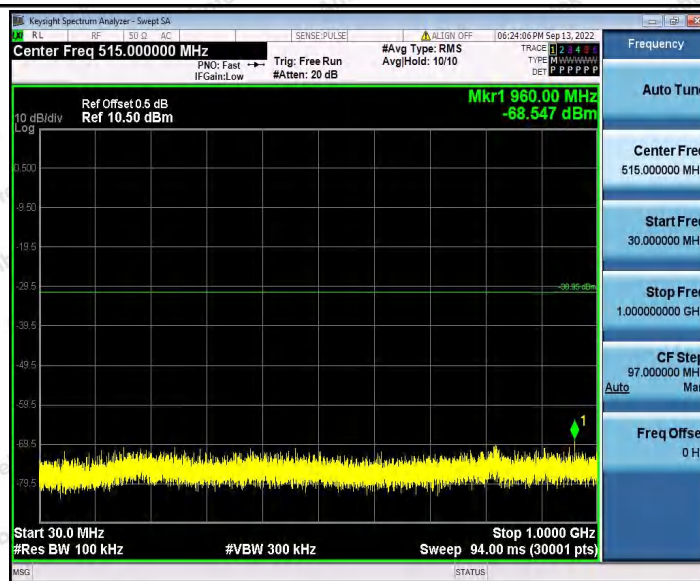
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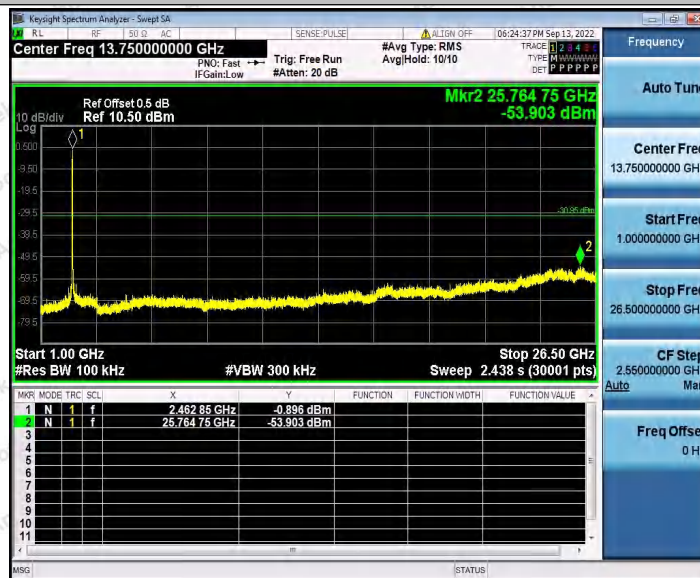


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11G_Ant1_2462_1000~26500



11N20_Ant1_2412_0~Reference

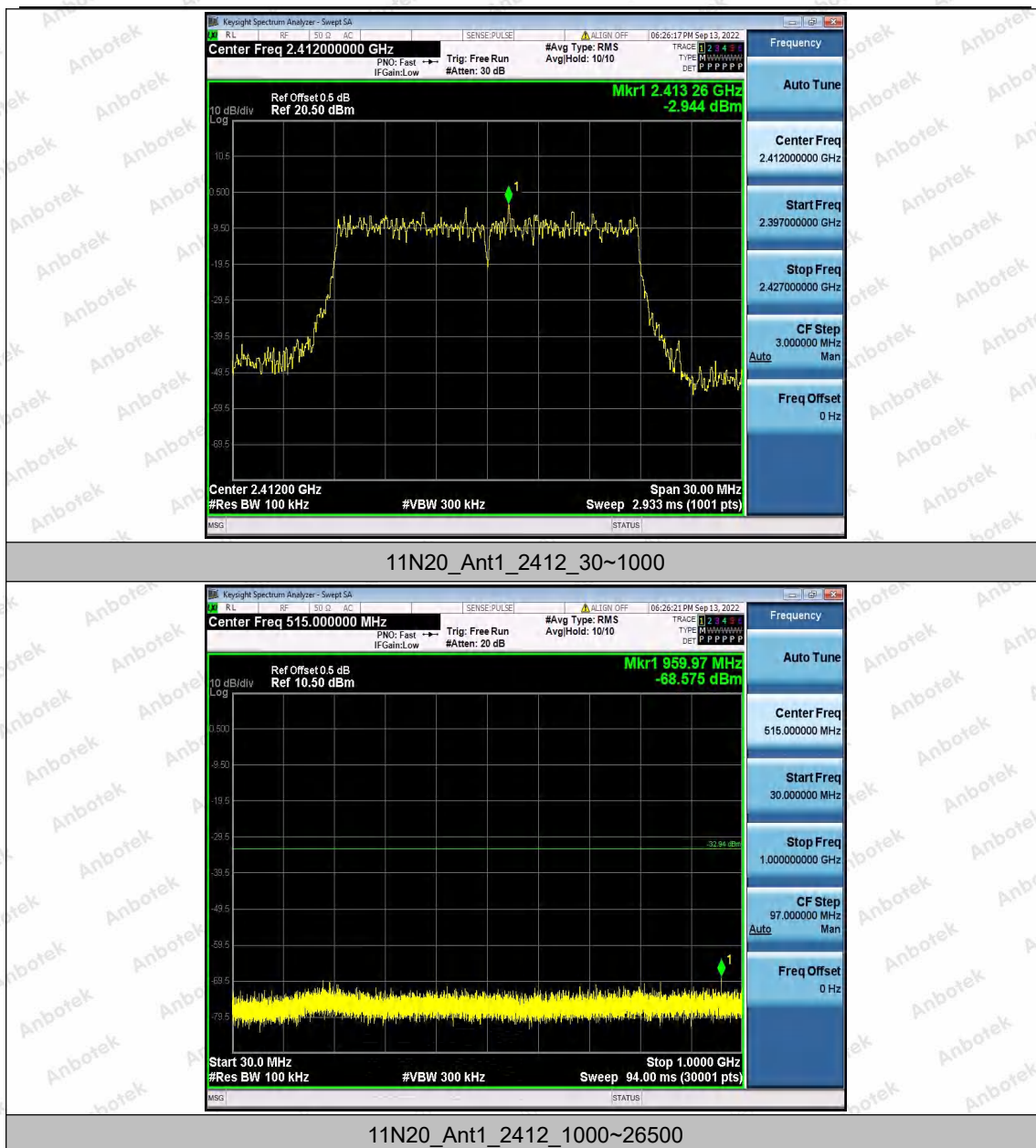
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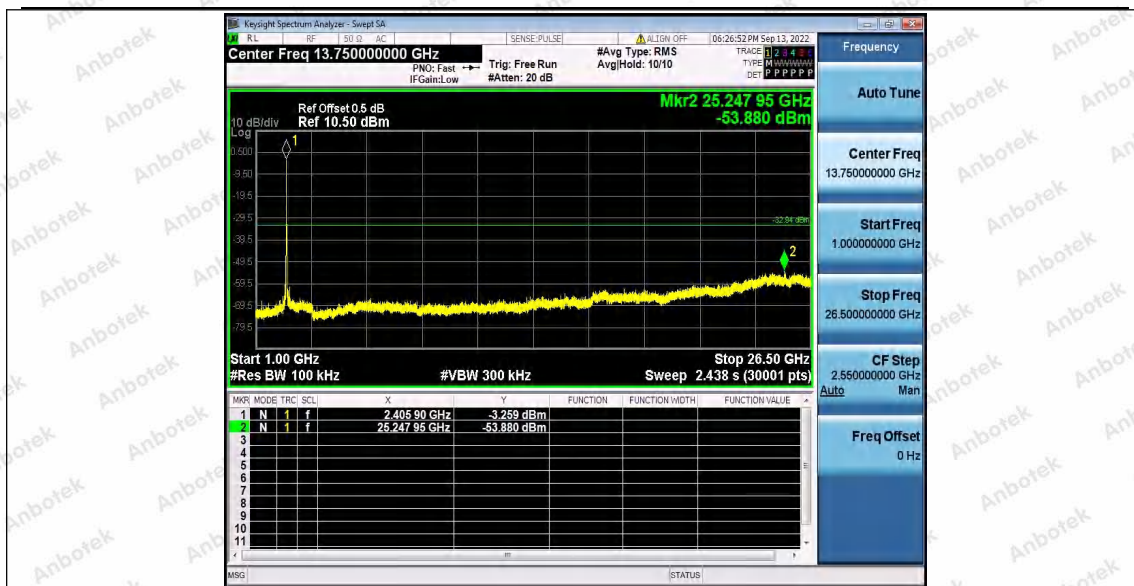
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11N20_Ant1_2437_0~Reference

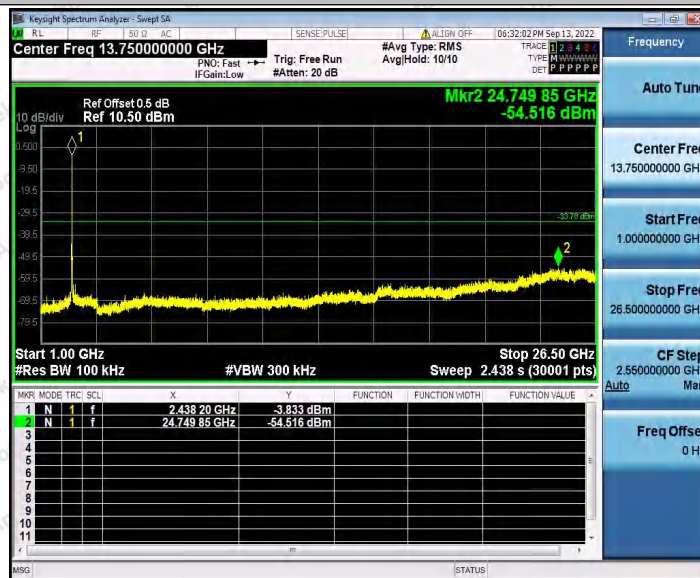


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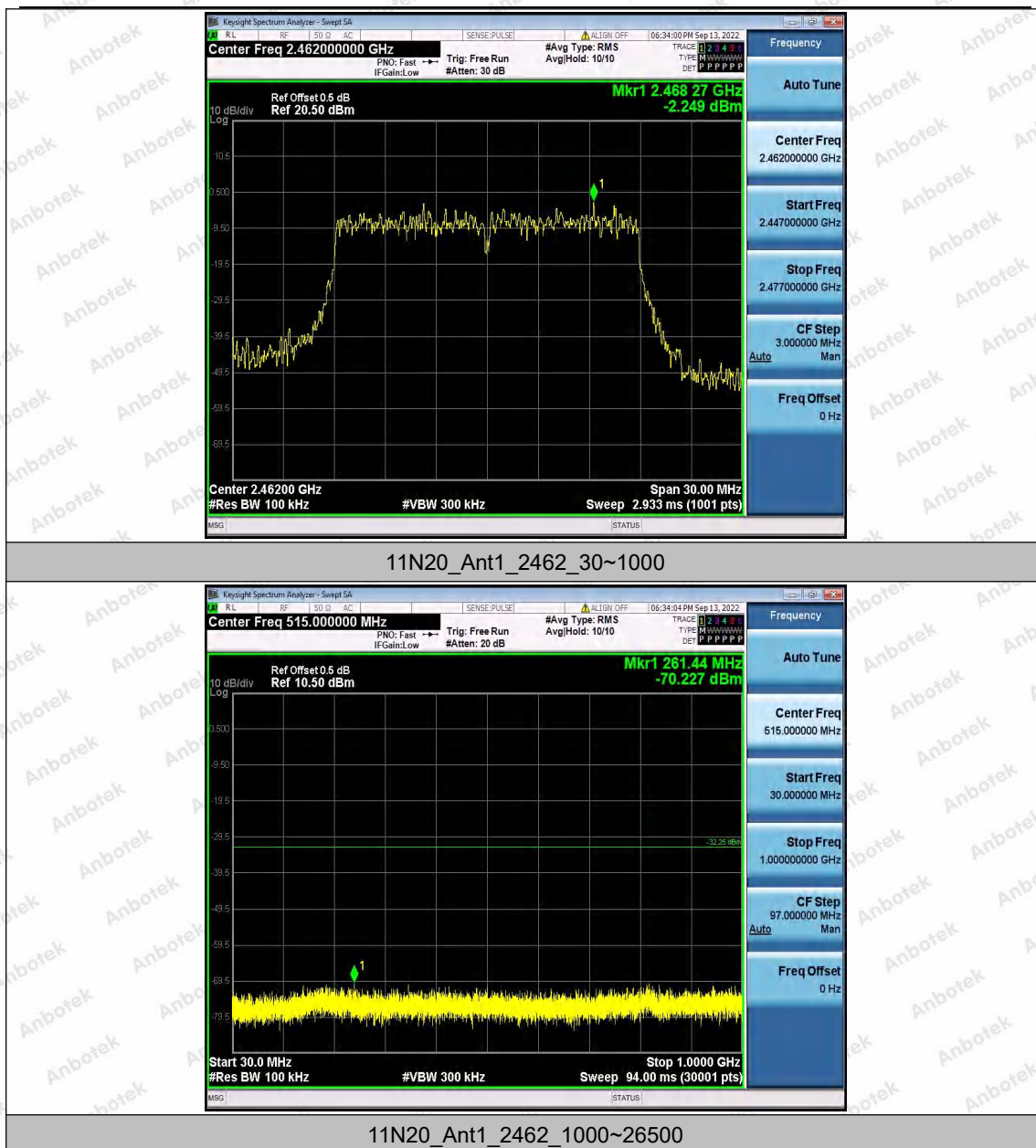


11N20_Ant1_2437_1000~26500



11N20_Ant1_2462_0~Reference



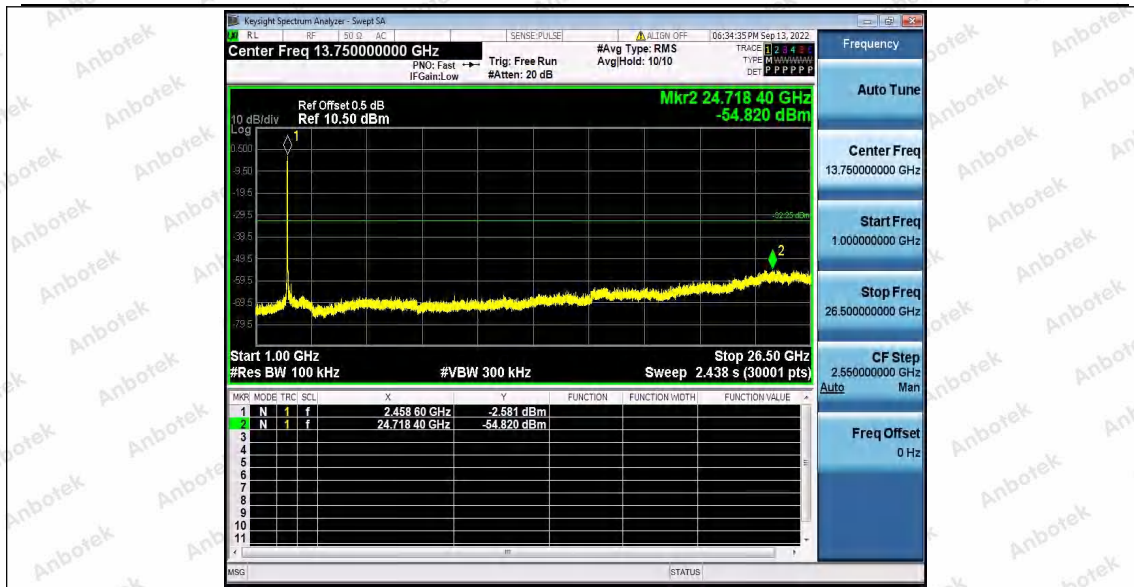
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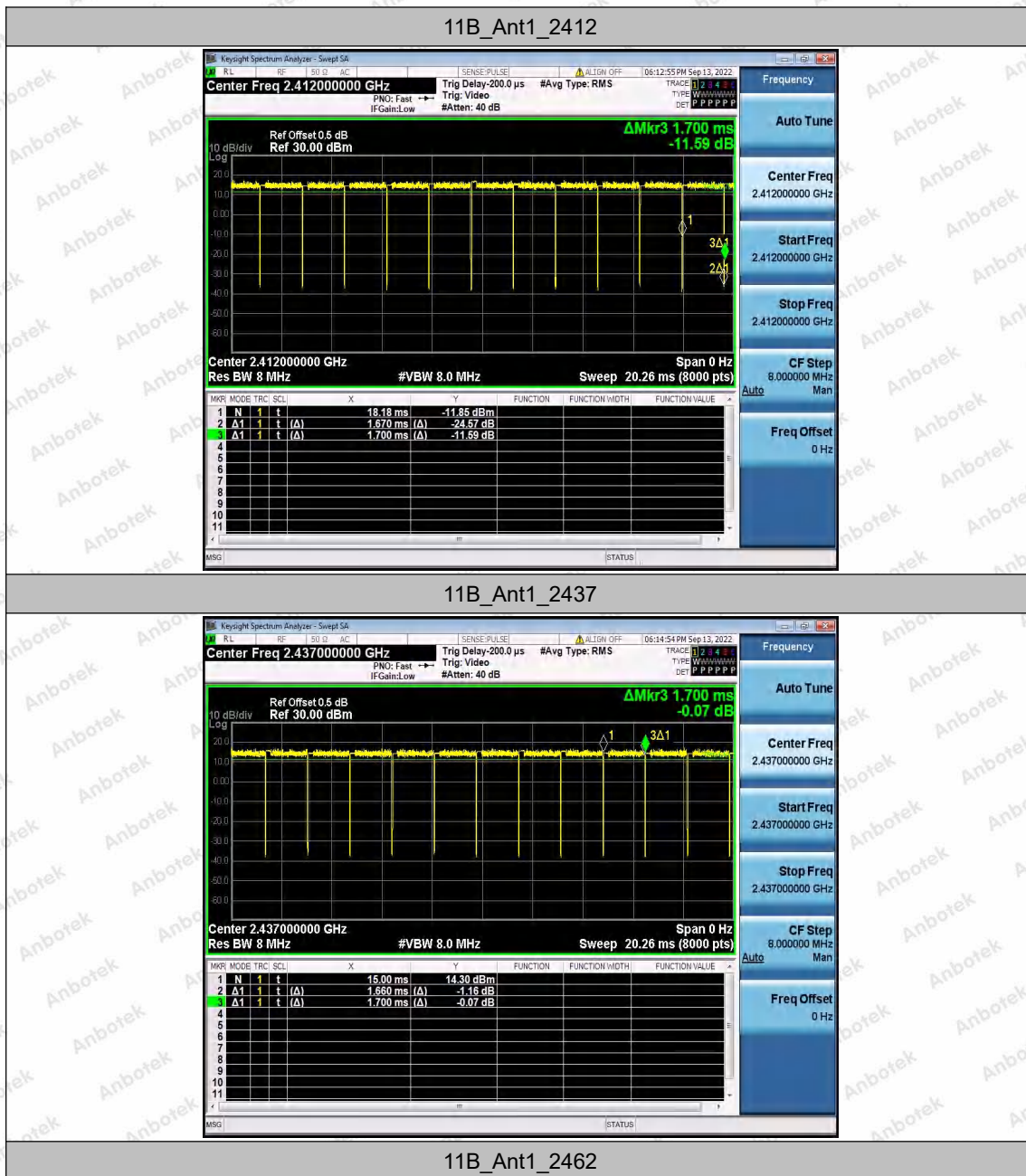
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	1.67	1.70	98.24	0.08
		2437	1.66	1.70	97.65	0.10
		2462	1.67	1.70	98.24	0.08
11G	Ant1	2412	0.33	0.36	91.67	0.38
		2437	0.32	0.36	88.89	0.51
		2462	0.32	0.36	88.89	0.51
11N20	Ant1	2412	0.29	0.32	90.63	0.43
		2437	0.29	0.33	87.88	0.56
		2462	0.29	0.32	90.63	0.43



Test Graphs



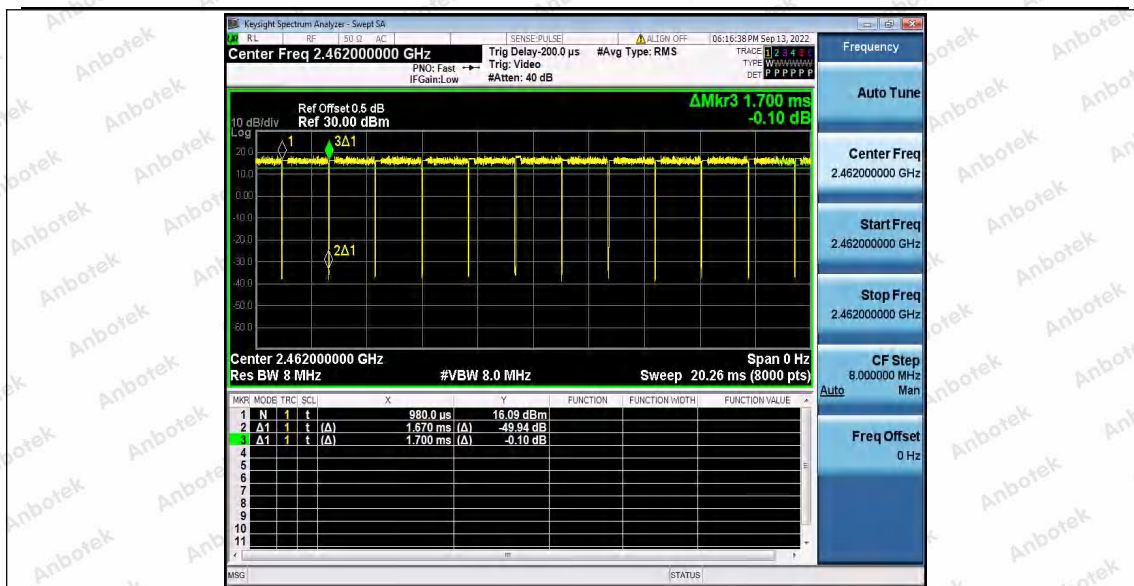
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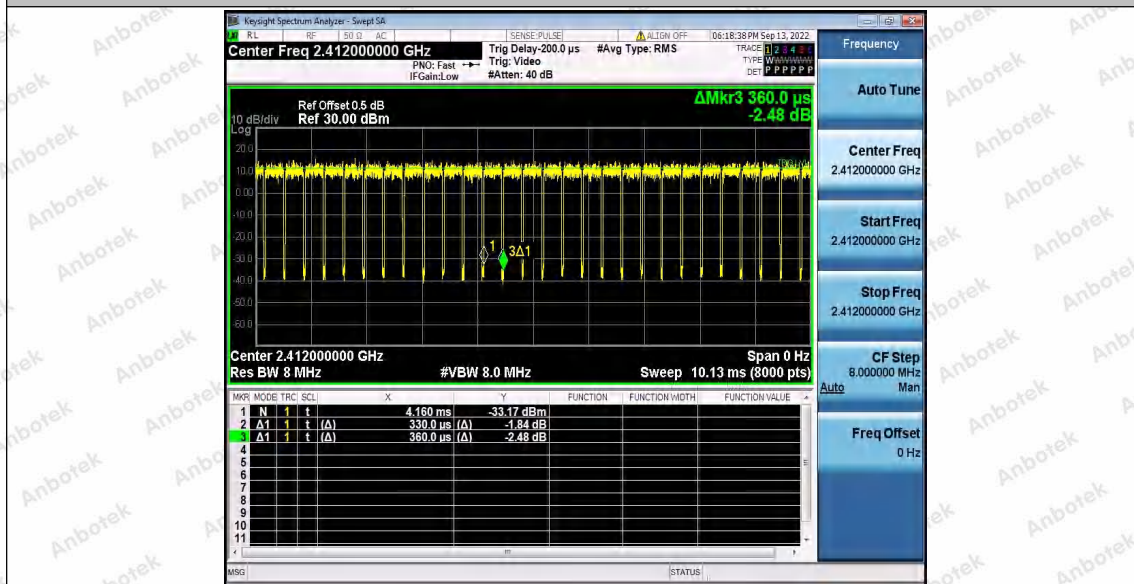


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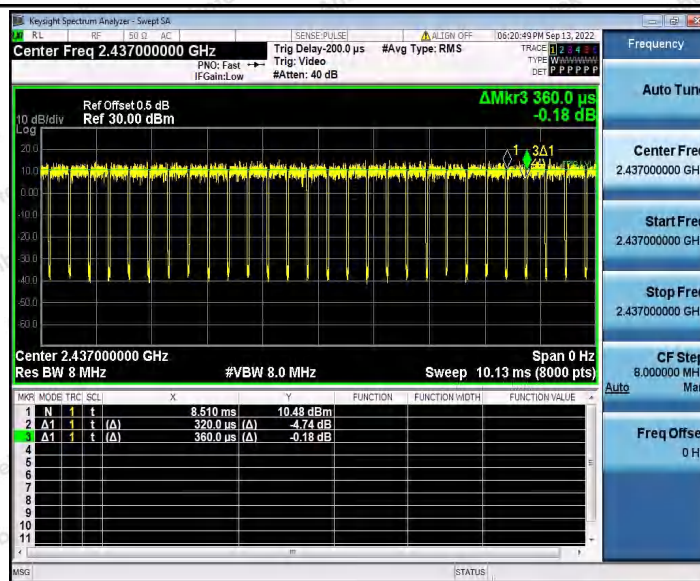


11G_Ant1_2412

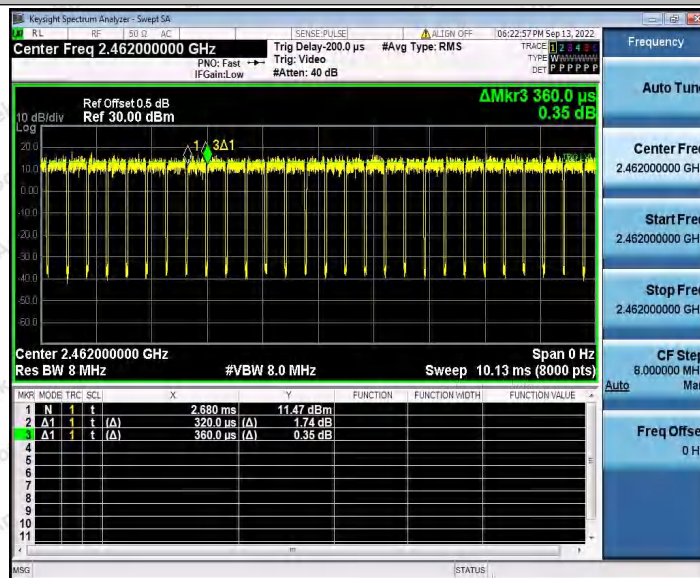


11G_Ant1_2437





11G_Ant1_2462



11N20_Ant1_2412

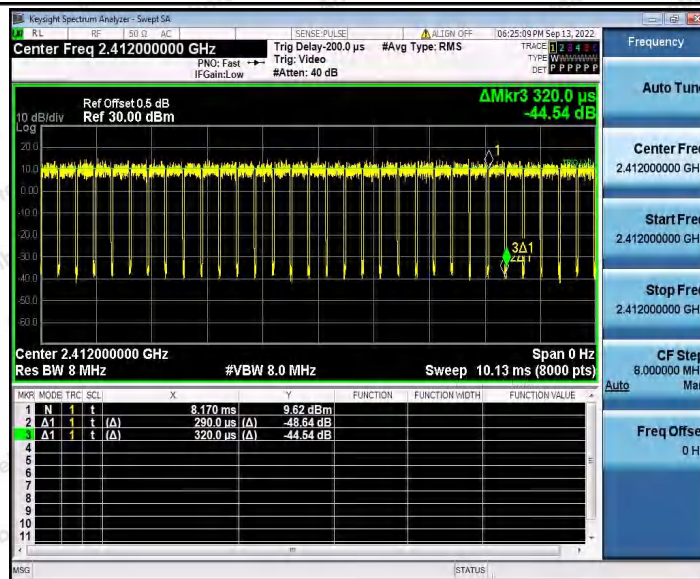
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

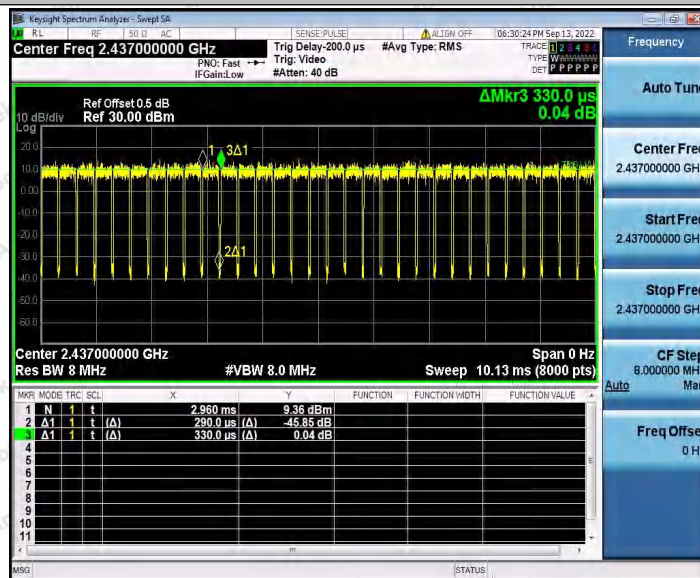


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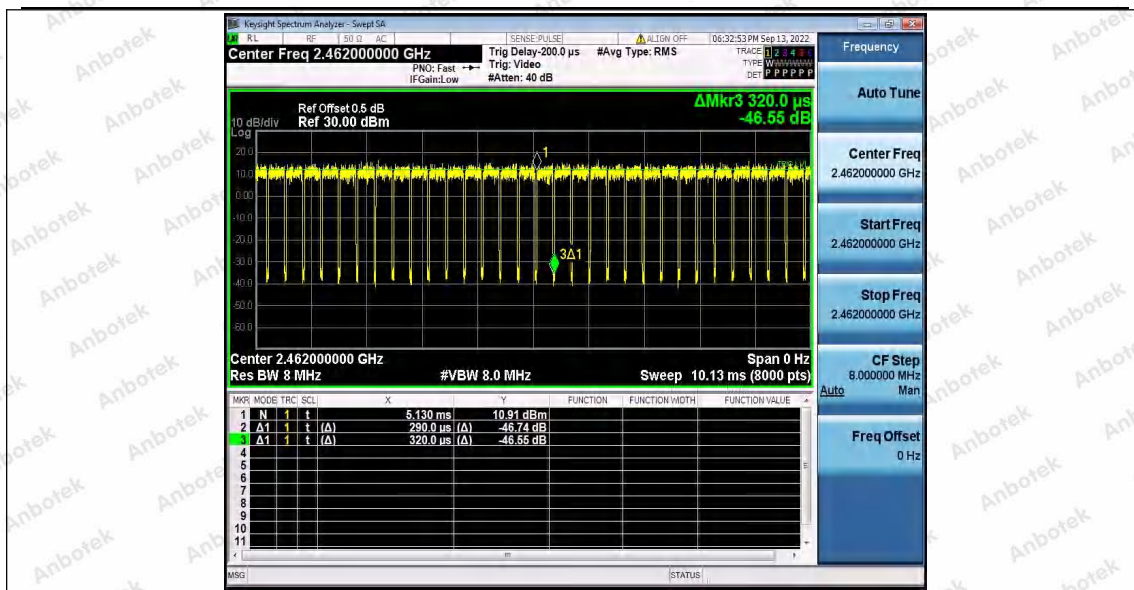


11N20_Ant1_2437



11N20_Ant1_2462





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