

Appendix Test Data

Report No.:	18220WC20275002	Test Sample No.:	1-2-2
Start Test Date:	2022.12.5	Finish Test Date:	2022.12.14
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3C°	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	9.080	2407.480	2416.560	≥0.5	PASS
		2437	8.600	2432.960	2441.560	≥0.5	PASS
		2462	9.560	2457.000	2466.560	≥0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	≥0.5	PASS
		2437	16.320	2428.840	2445.160	≥0.5	PASS
		2462	16.320	2453.840	2470.160	≥0.5	PASS
11N20	Ant1	2412	17.600	2403.240	2420.840	≥0.5	PASS
		2437	17.600	2428.200	2445.800	≥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

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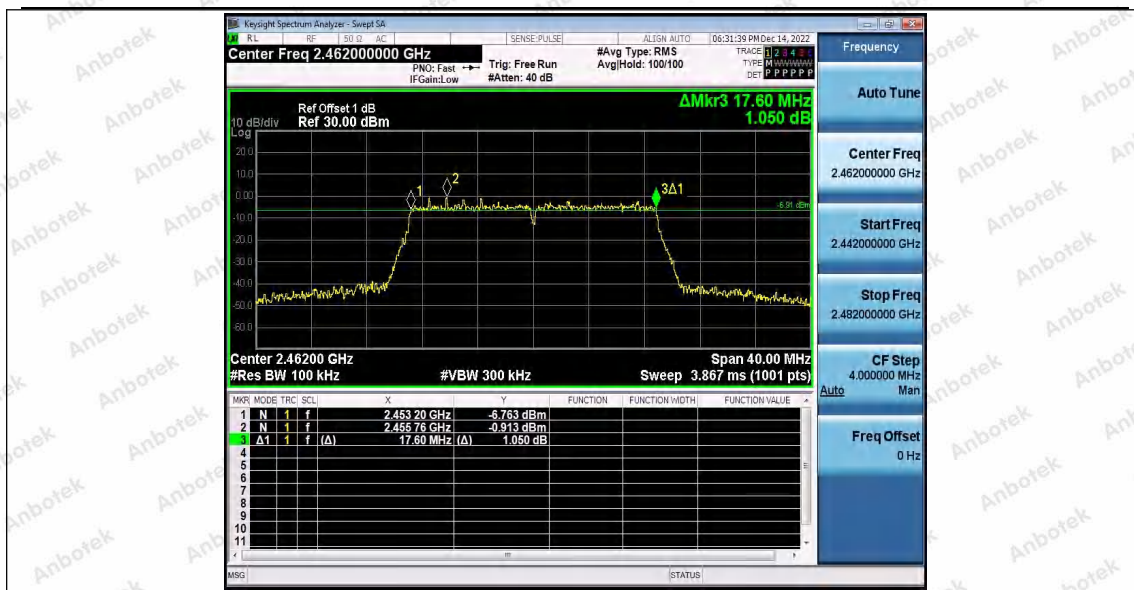


11N20_Ant1_2437



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	12.337	2405.8948	2418.2318
		2437	12.407	2430.7917	2443.1987
		2462	12.474	2455.8218	2468.2958
11G	Ant1	2412	17.130	2403.4710	2420.6010
		2437	17.104	2428.4563	2445.5603
		2462	17.054	2453.5477	2470.6017
11N20	Ant1	2412	17.924	2403.0921	2421.0161
		2437	17.964	2428.0324	2445.9964
		2462	17.965	2453.0648	2471.0298



Test Graphs



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11G_Ant1_2412



11G_Ant1_2437

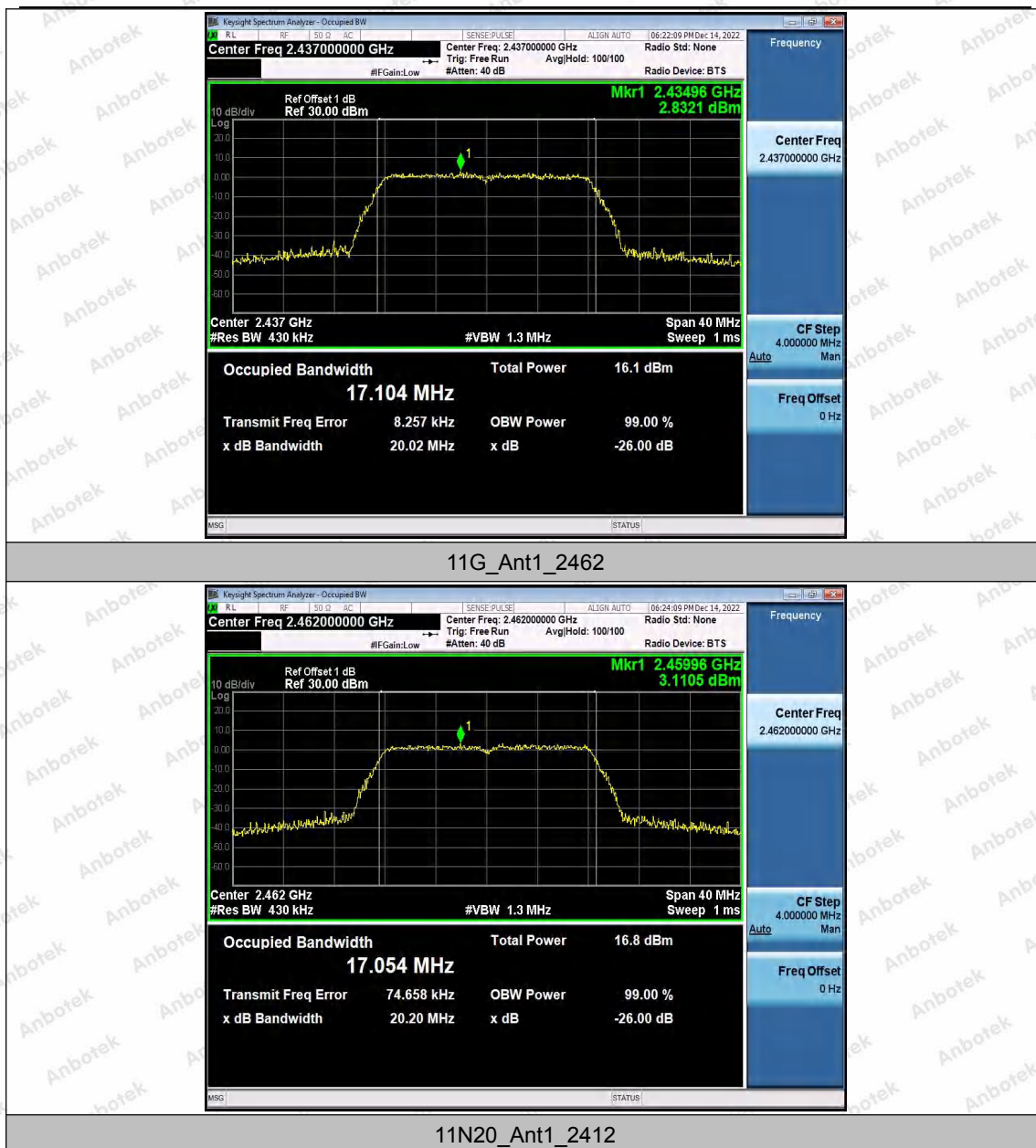
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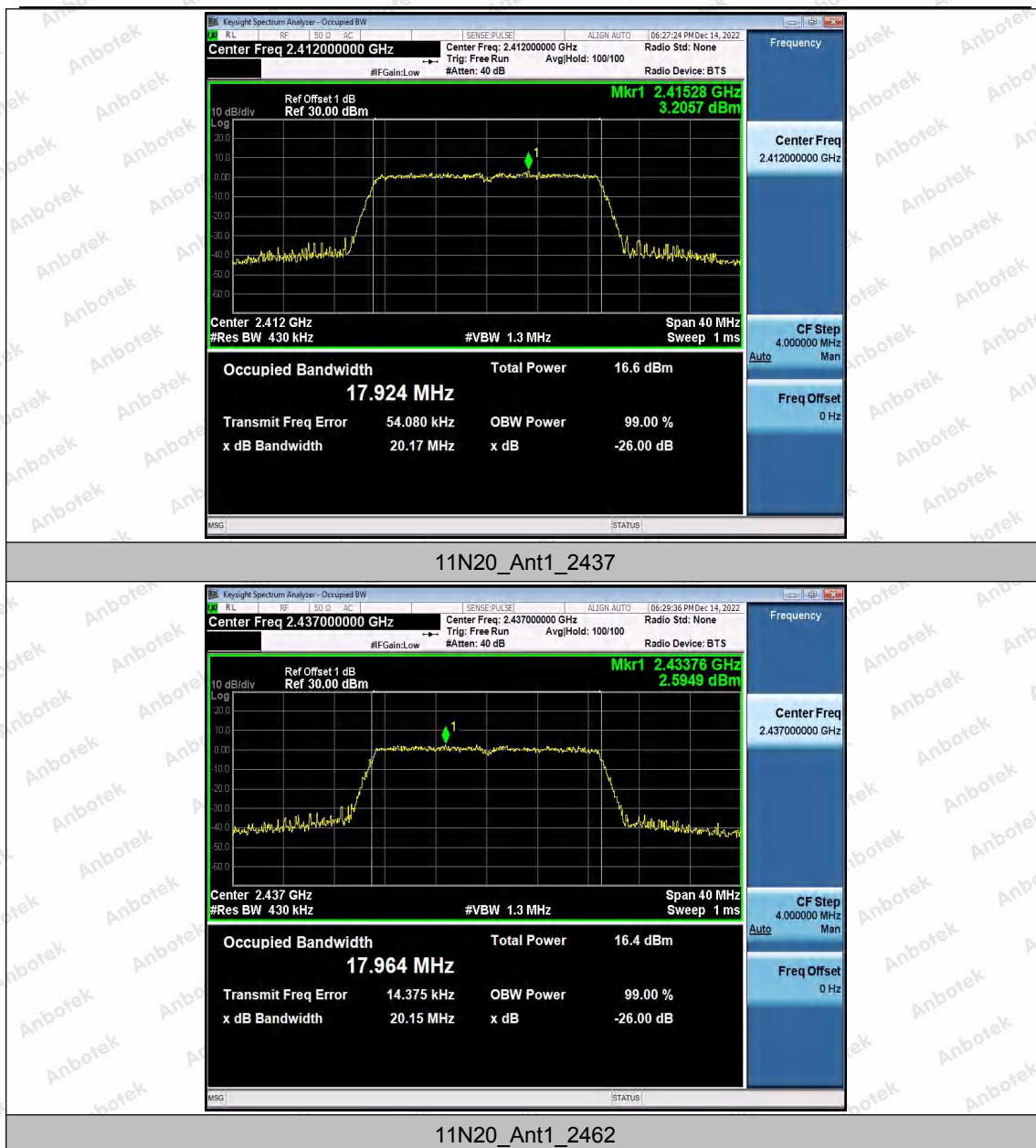
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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	18.22	≤30.00
		2437	18.04	≤30.00
		2462	18.50	≤30.00
11G	Ant1	2412	17.68	≤30.00
		2437	17.29	≤30.00
		2462	17.88	≤30.00
11N20	Ant1	2412	17.76	≤30.00
		2437	17.34	≤30.00
		2462	17.98	≤30.00

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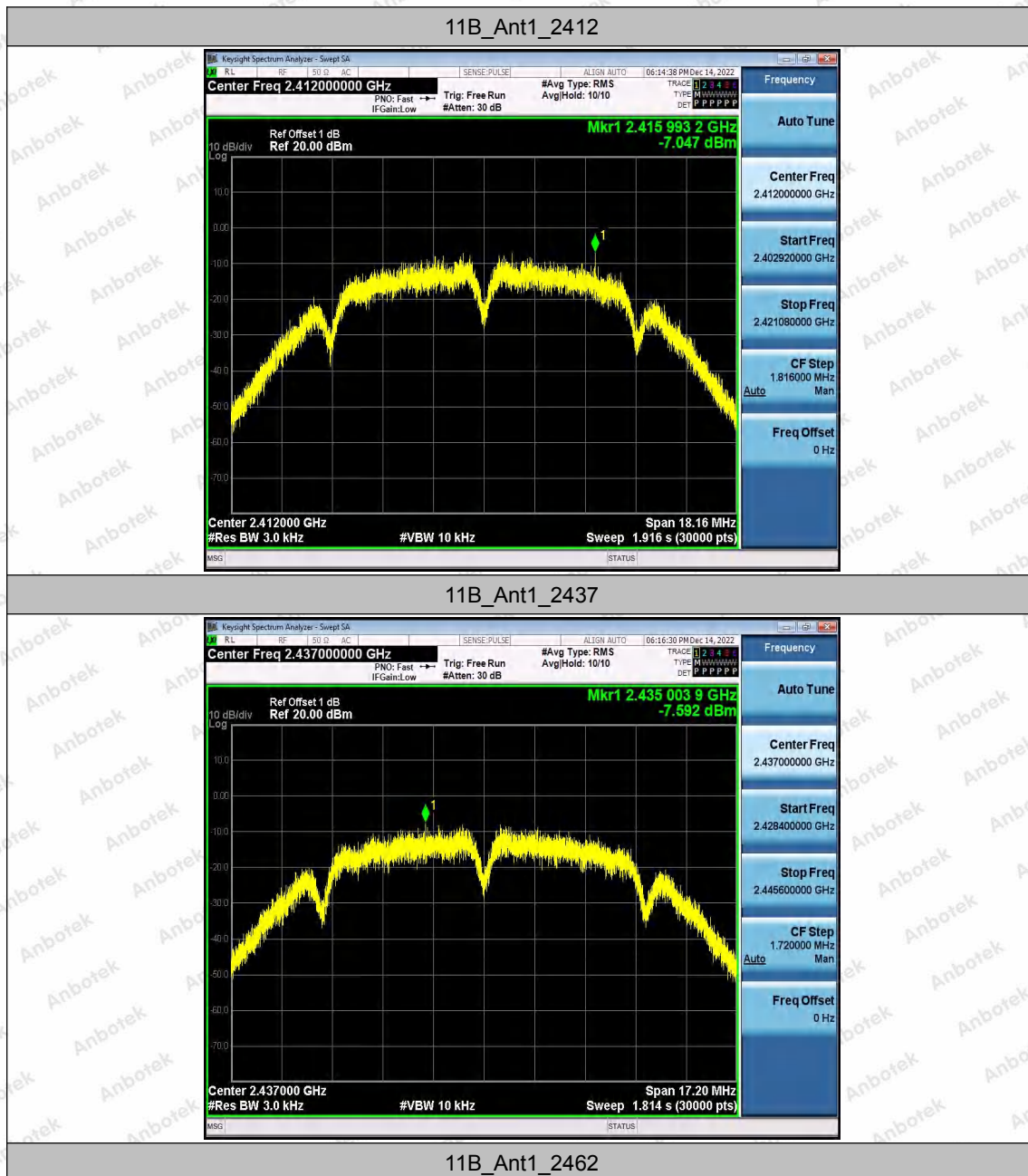
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.05	≤8.00	PASS
		2437	-7.59	≤8.00	PASS
		2462	-5.66	≤8.00	PASS
11G	Ant1	2412	-14.26	≤8.00	PASS
		2437	-14.03	≤8.00	PASS
		2462	-12.87	≤8.00	PASS
11N20	Ant1	2412	-15.14	≤8.00	PASS
		2437	-14.98	≤8.00	PASS
		2462	-14.82	≤8.00	PASS



Test Graphs



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11G_Ant1_2412



11G_Ant1_2437

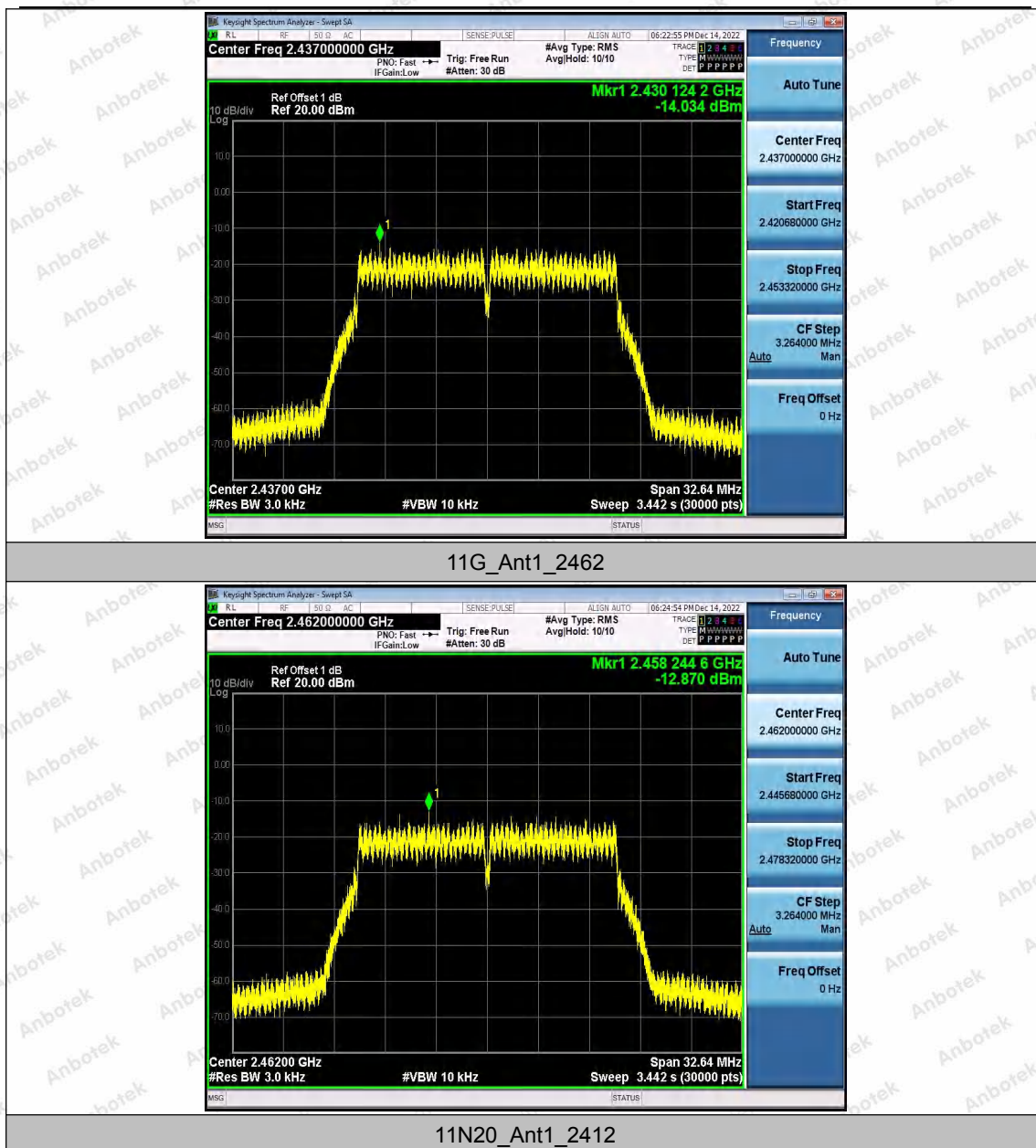
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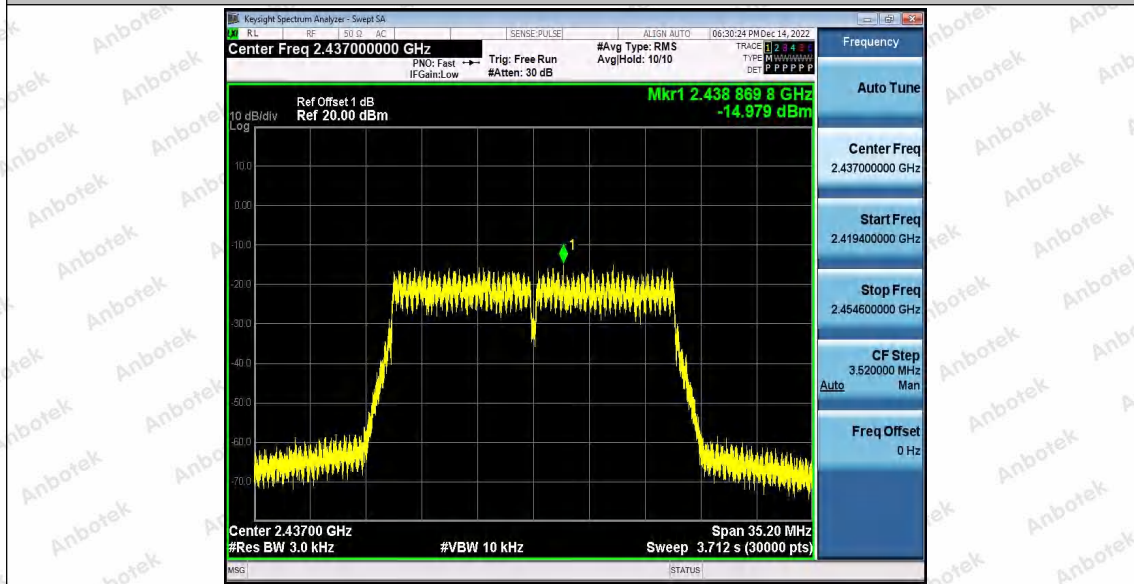
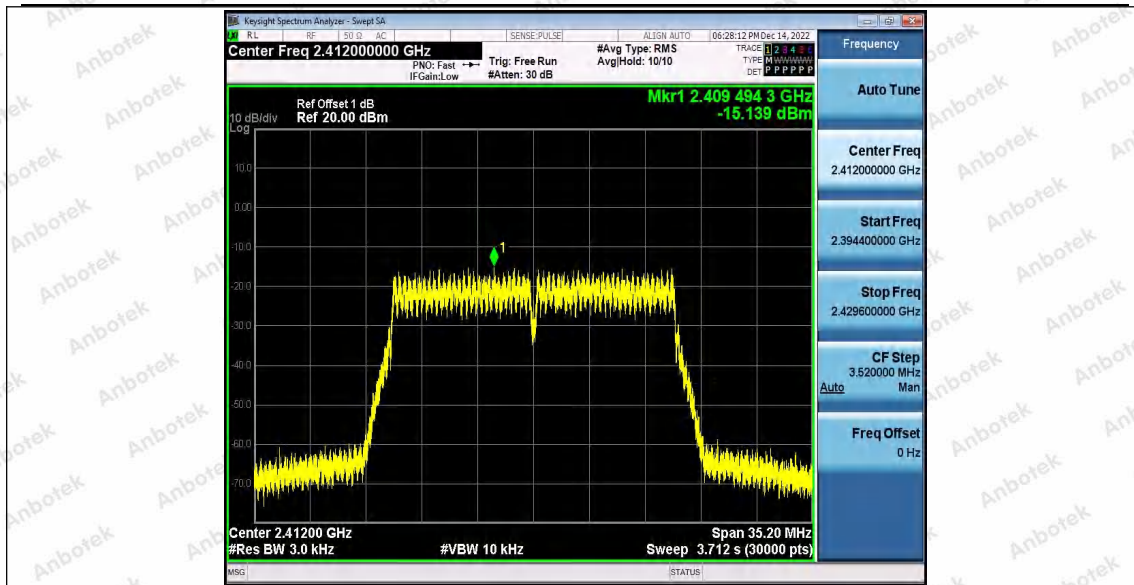
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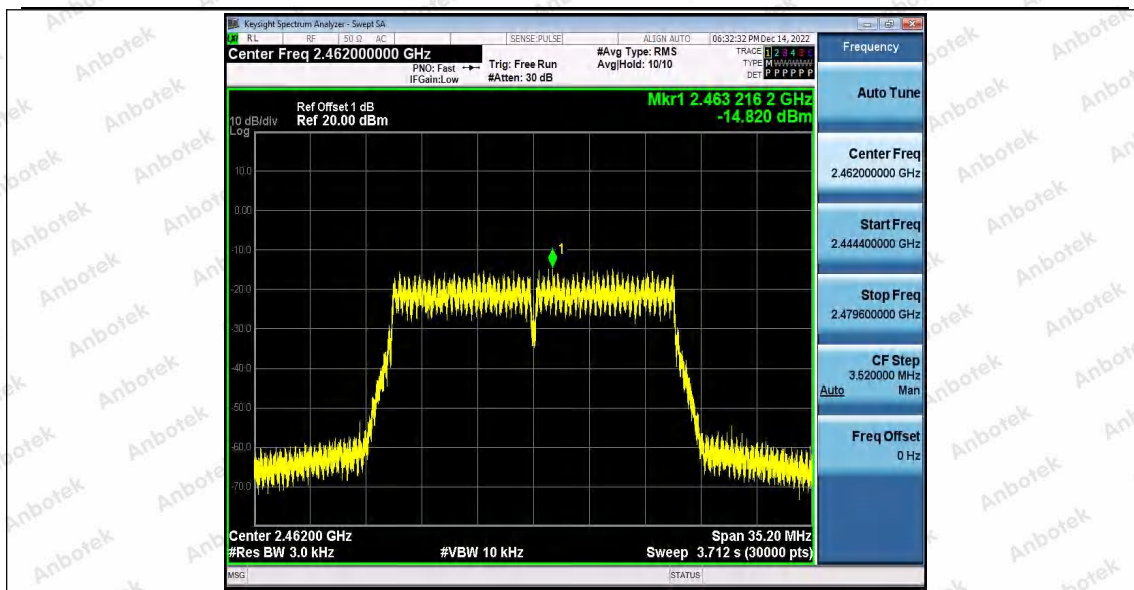
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Appendix E: Band edge measurements

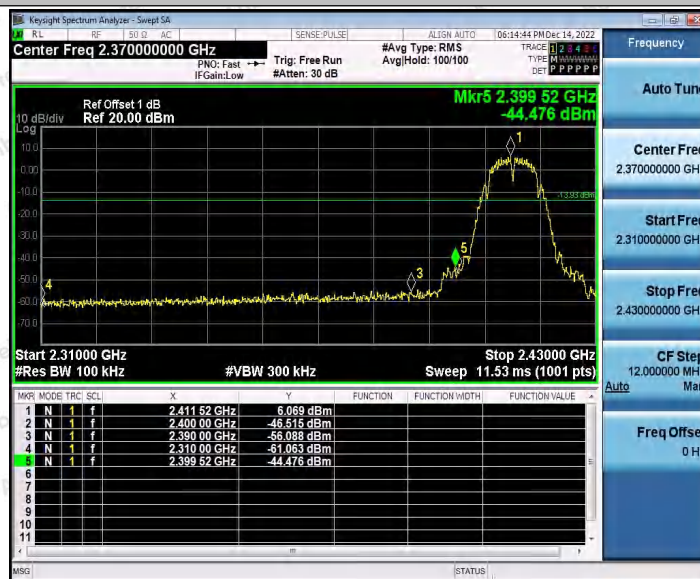
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.07	-44.48	≤-13.93	PASS
		High	2462	6.92	-54.36	≤-13.09	PASS
11G	Ant1	Low	2412	-0.62	-44.83	≤-20.62	PASS
		High	2462	-0.12	-50.68	≤-20.12	PASS
11N20	Ant1	Low	2412	-1.04	-42.09	≤-21.04	PASS
		High	2462	-0.13	-48.35	≤-20.13	PASS



Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

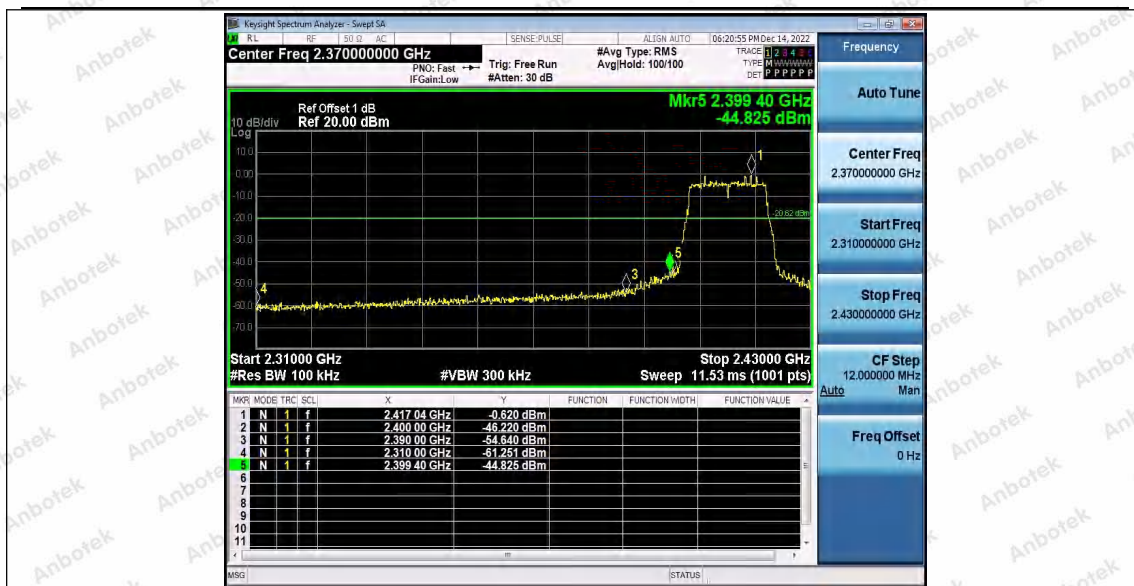
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11G_Ant1_High_2462



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	5.85	5.85	---	PASS
			30~1000	5.85	-68.81	≤-14.15	PASS
			1000~26500	5.85	-48.41	≤-14.15	PASS
		2437	Reference	5.44	5.44	---	PASS
			30~1000	5.44	-68.5	≤-14.56	PASS
			1000~26500	5.44	-52.96	≤-14.56	PASS
		2462	Reference	6.01	6.01	---	PASS
			30~1000	6.01	-68.42	≤-13.99	PASS
			1000~26500	6.01	-51.44	≤-13.99	PASS
11G	Ant1	2412	Reference	-1.70	-1.70	---	PASS
			30~1000	-1.70	-68.75	≤-21.7	PASS
			1000~26500	-1.70	-53.07	≤-21.7	PASS
		2437	Reference	-1.69	-1.69	---	PASS
			30~1000	-1.69	-68.99	≤-21.69	PASS
			1000~26500	-1.69	-53.16	≤-21.69	PASS
		2462	Reference	-1.61	-1.61	---	PASS
			30~1000	-1.61	-68.94	≤-21.61	PASS
			1000~26500	-1.61	-53.48	≤-21.61	PASS
11N20	Ant1	2412	Reference	-0.64	-0.64	---	PASS
			30~1000	-0.64	-68.71	≤-20.64	PASS
			1000~26500	-0.64	-45.23	≤-20.64	PASS
		2437	Reference	-2.77	-2.77	---	PASS
			30~1000	-2.77	-68.81	≤-22.77	PASS
			1000~26500	-2.77	-53	≤-22.77	PASS
		2462	Reference	-1.32	-1.32	---	PASS
			30~1000	-1.32	-68.48	≤-21.32	PASS
			1000~26500	-1.32	-52.77	≤-21.32	PASS

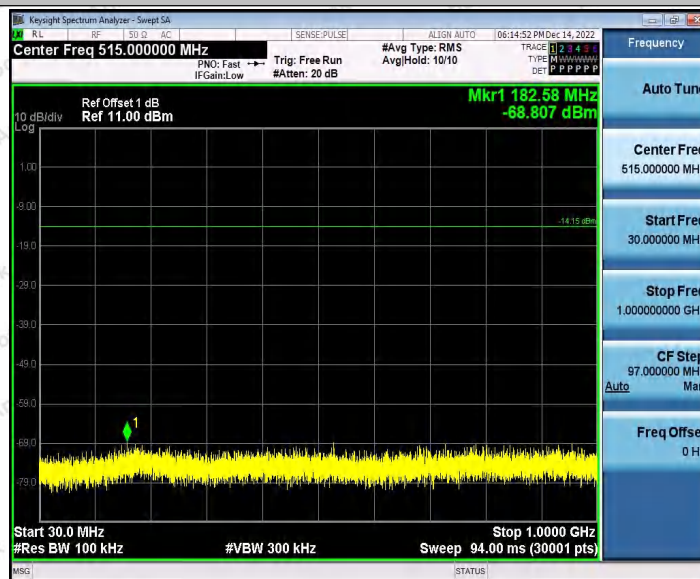


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

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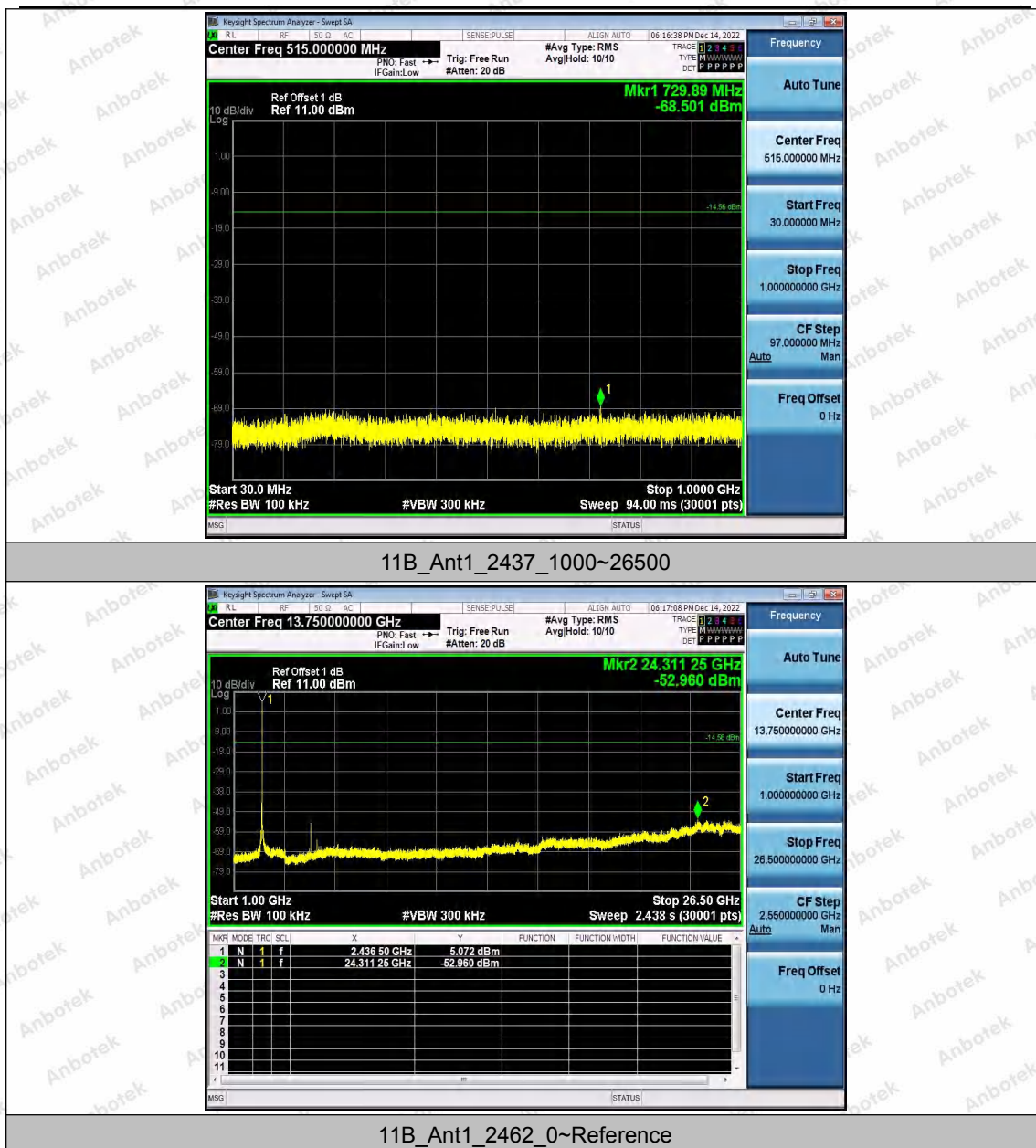


11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000





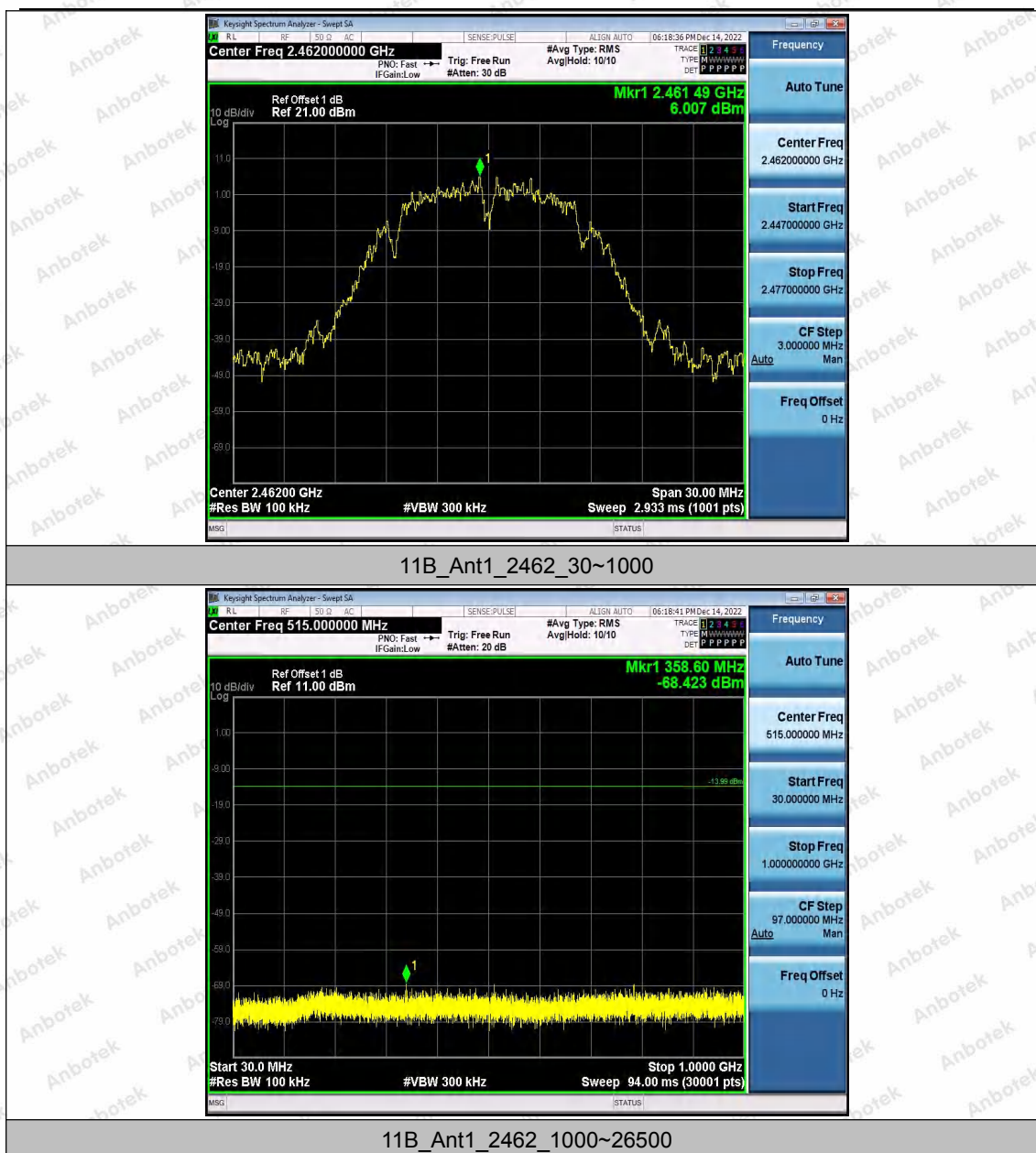
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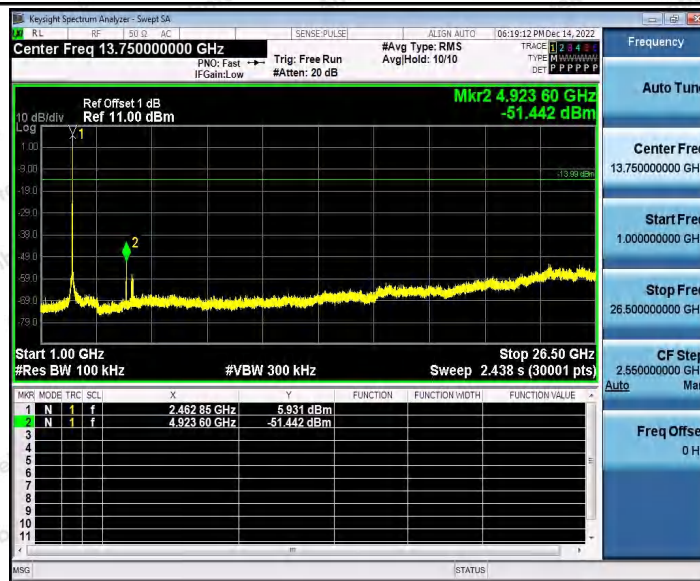
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11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000

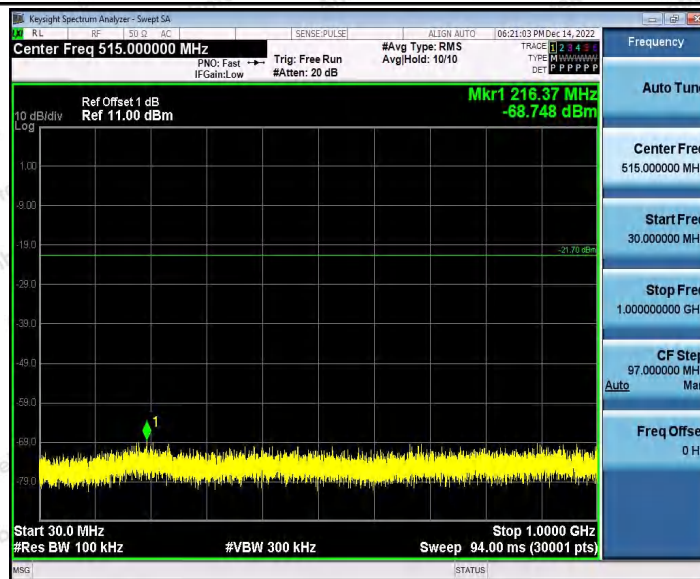
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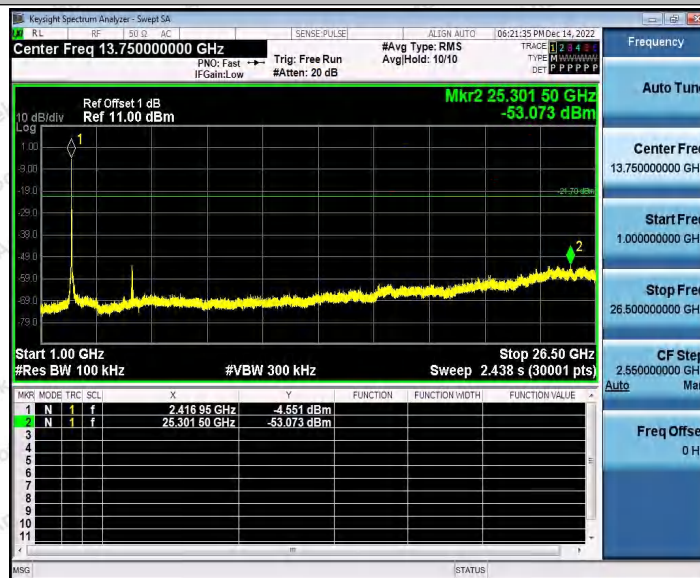


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11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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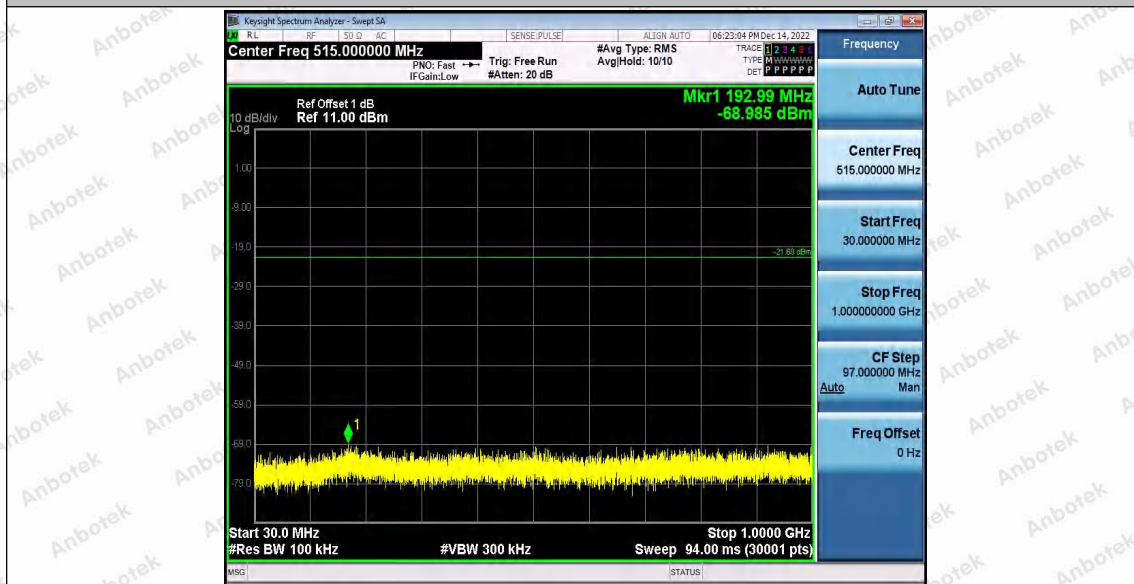


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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500

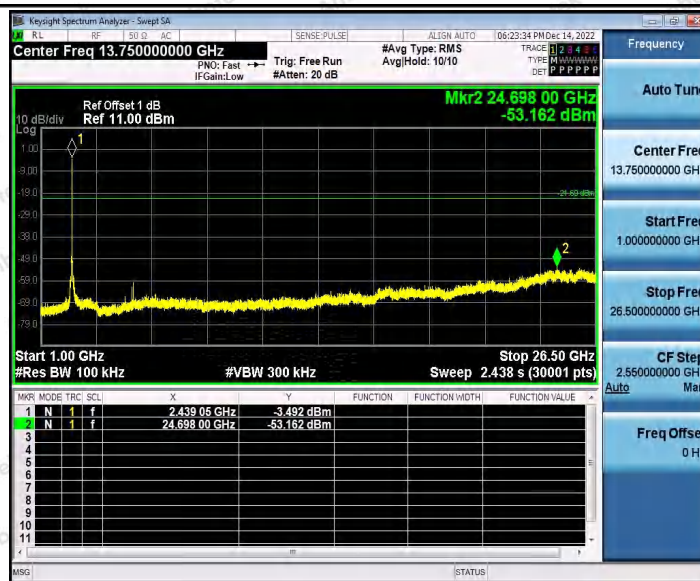
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000

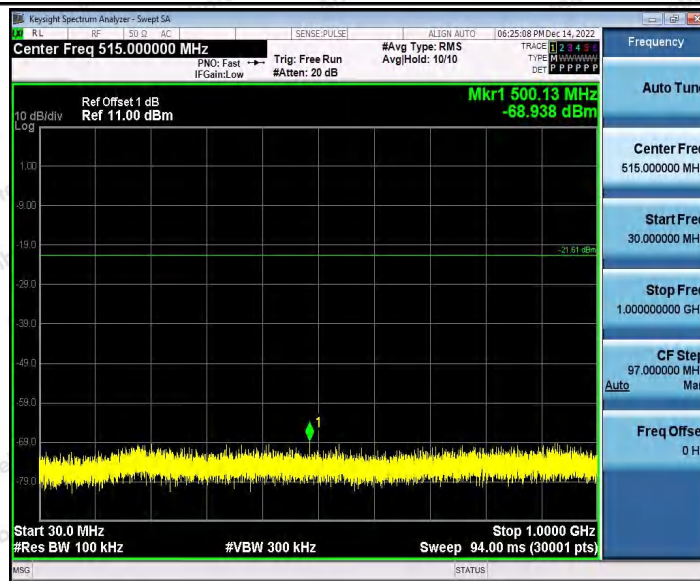
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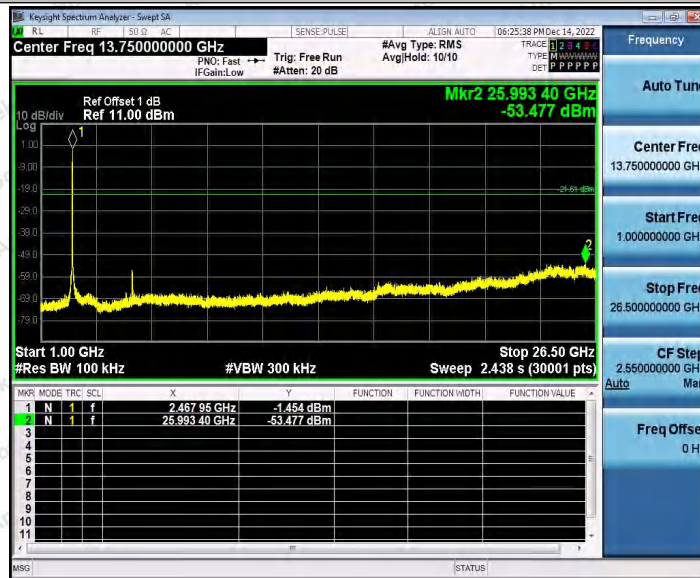


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11G_Ant1_2462_1000~26500



11N20_Ant1_2412_0~Reference

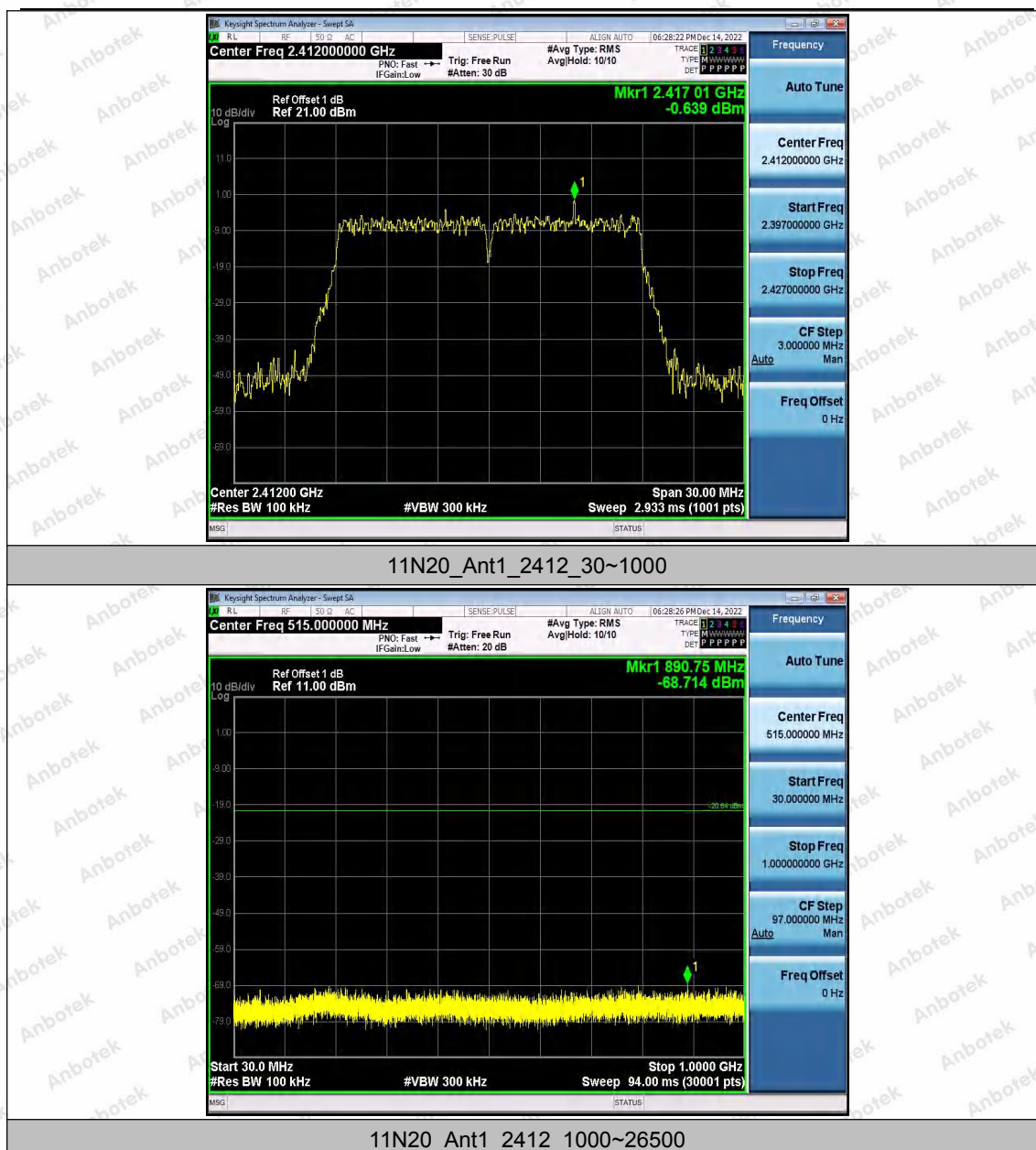
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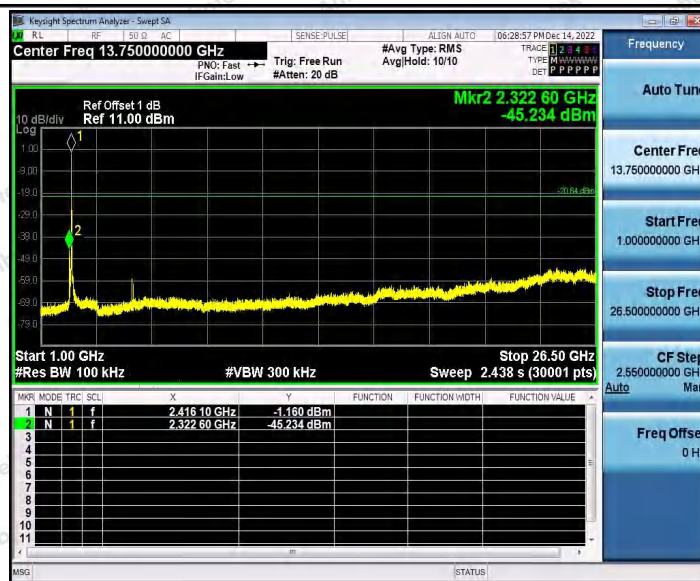
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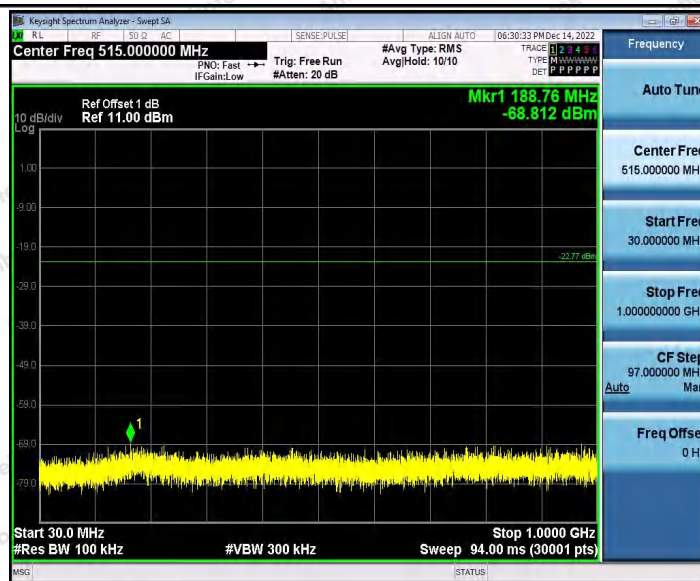


11N20_Ant1_2437_0~Reference



11N20_Ant1_2437_30~1000





11N20_Ant1_2437_1000~26500



11N20_Ant1_2462_0~Reference

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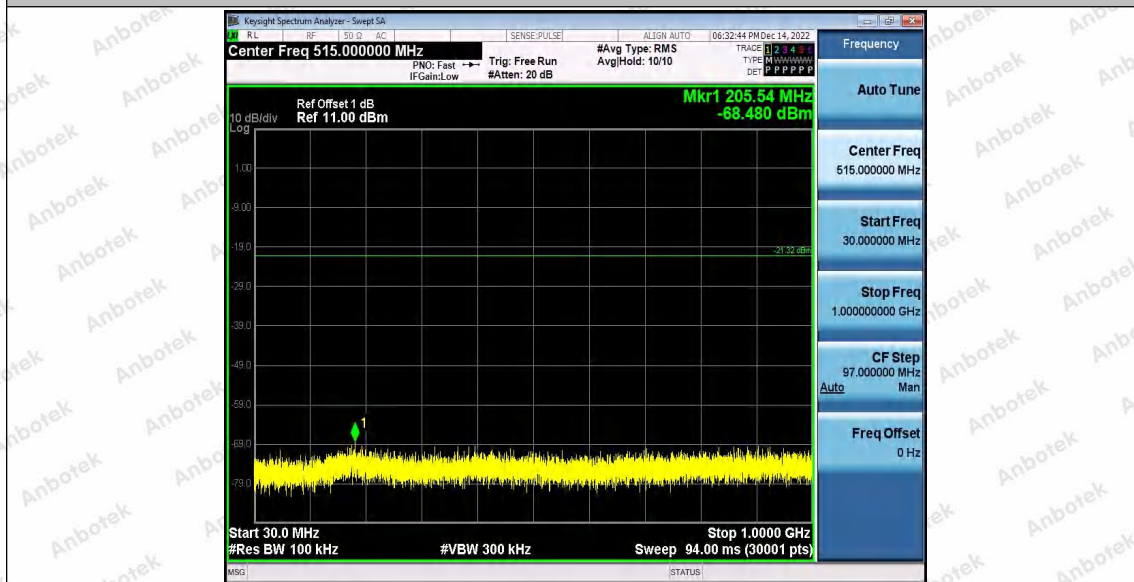


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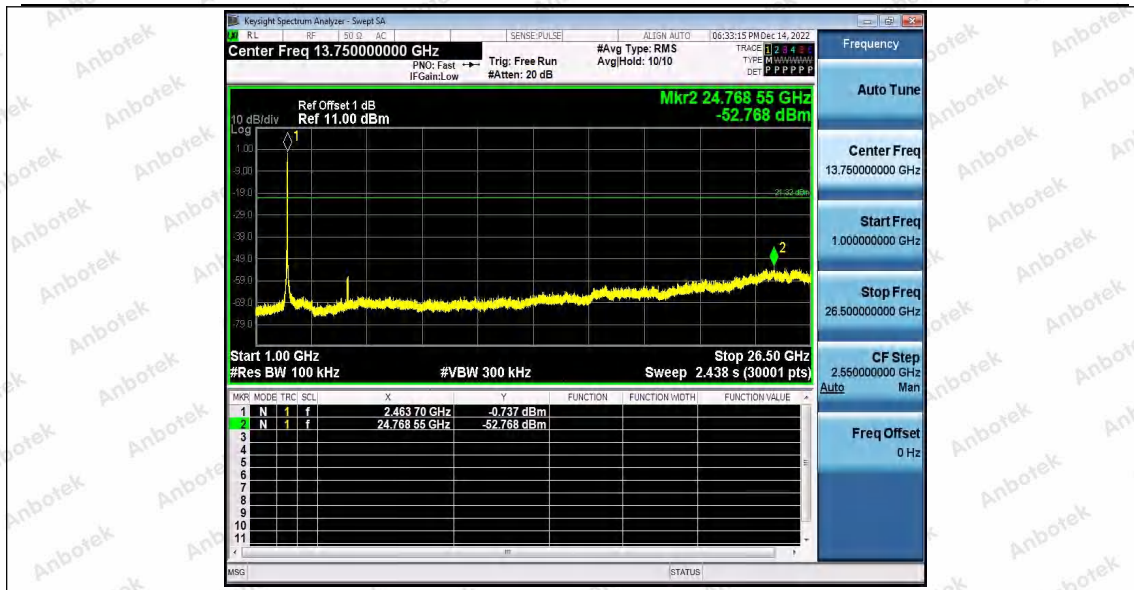


11N20_Ant1_2462_30~1000



11N20_Ant1_2462_1000~26500





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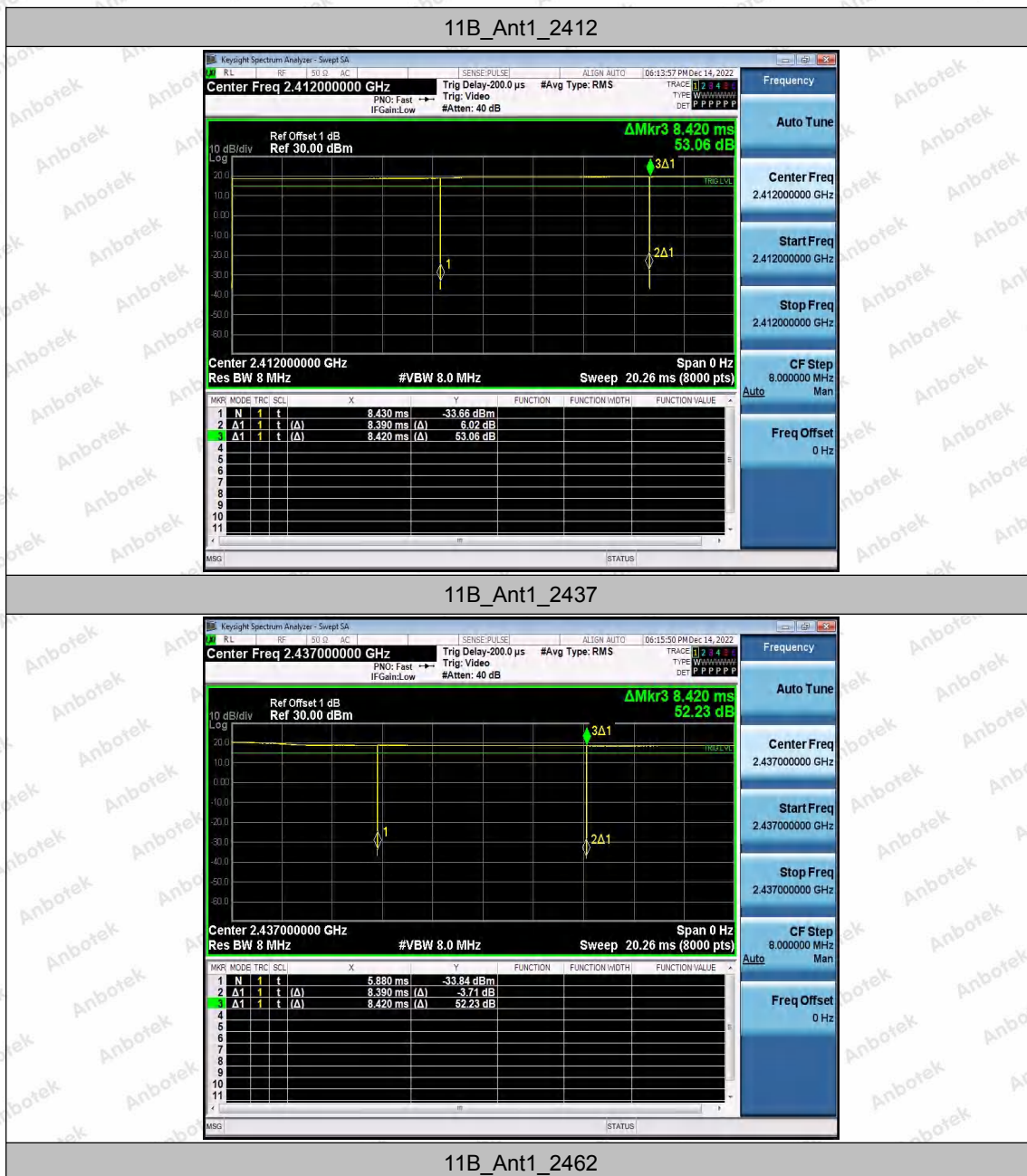
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.39	8.42	99.64	0.02
		2437	8.39	8.42	99.64	0.02
		2462	8.38	8.41	99.64	0.02
11G	Ant1	2412	1.39	1.42	97.89	0.09
		2437	1.39	1.43	97.20	0.12
		2462	1.39	1.42	97.89	0.09
11N20	Ant1	2412	1.30	1.33	97.74	0.10
		2437	1.30	1.34	97.01	0.13
		2462	1.30	1.33	97.74	0.10



Test Graphs



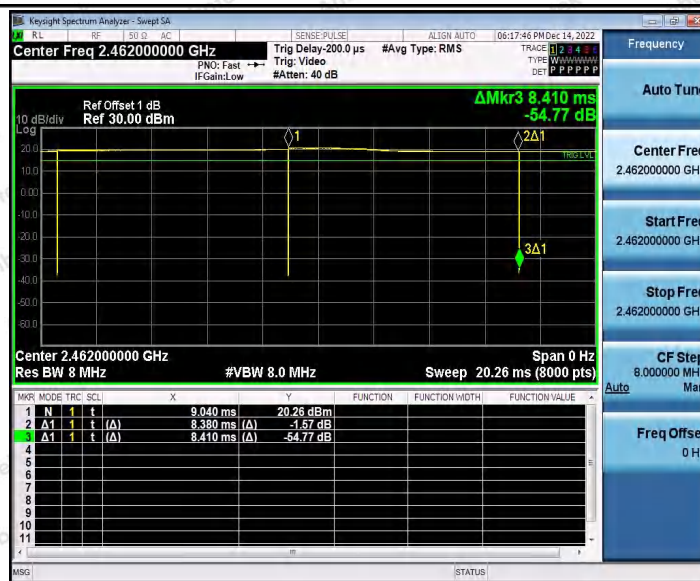
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

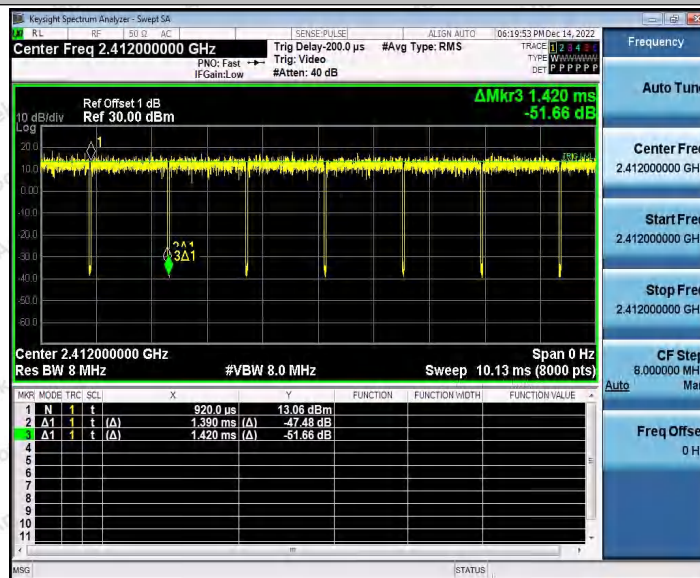


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11G_Ant1_2412



11G_Ant1_2437

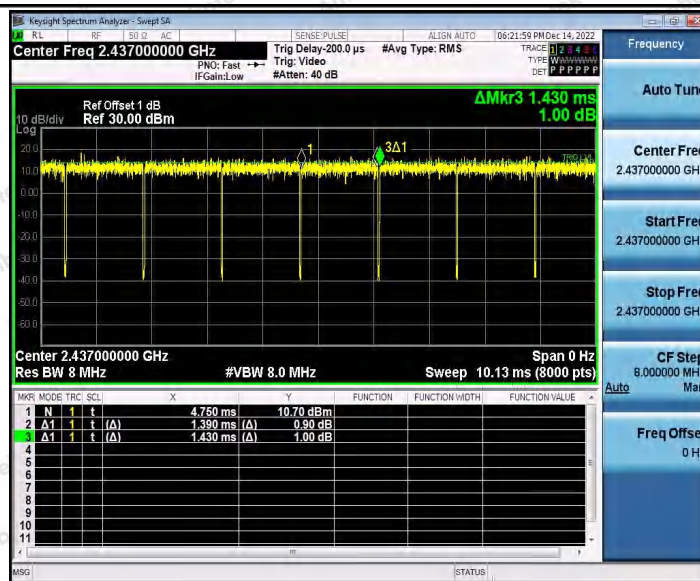
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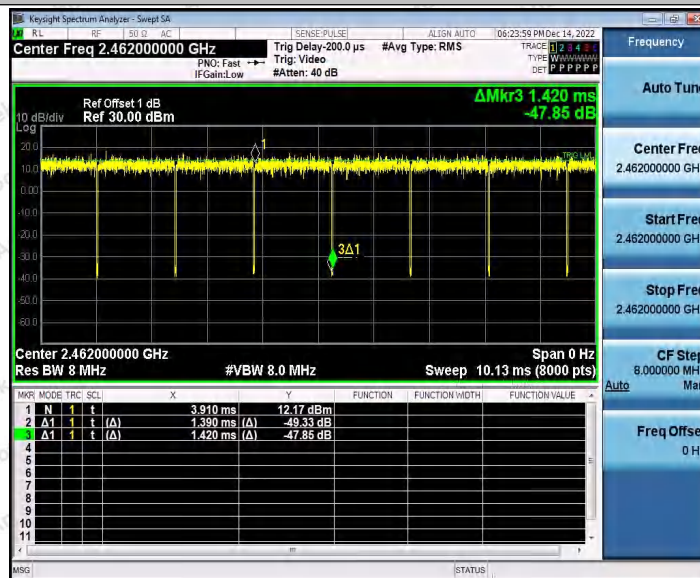


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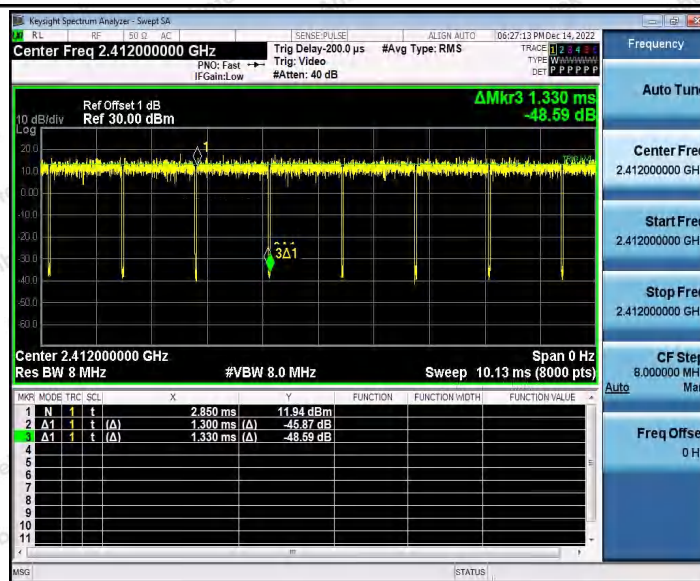


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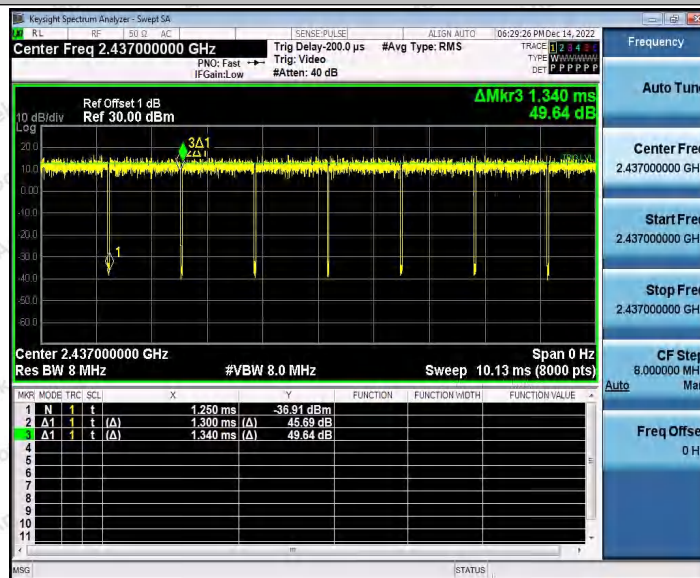


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11N20_Ant1_2462

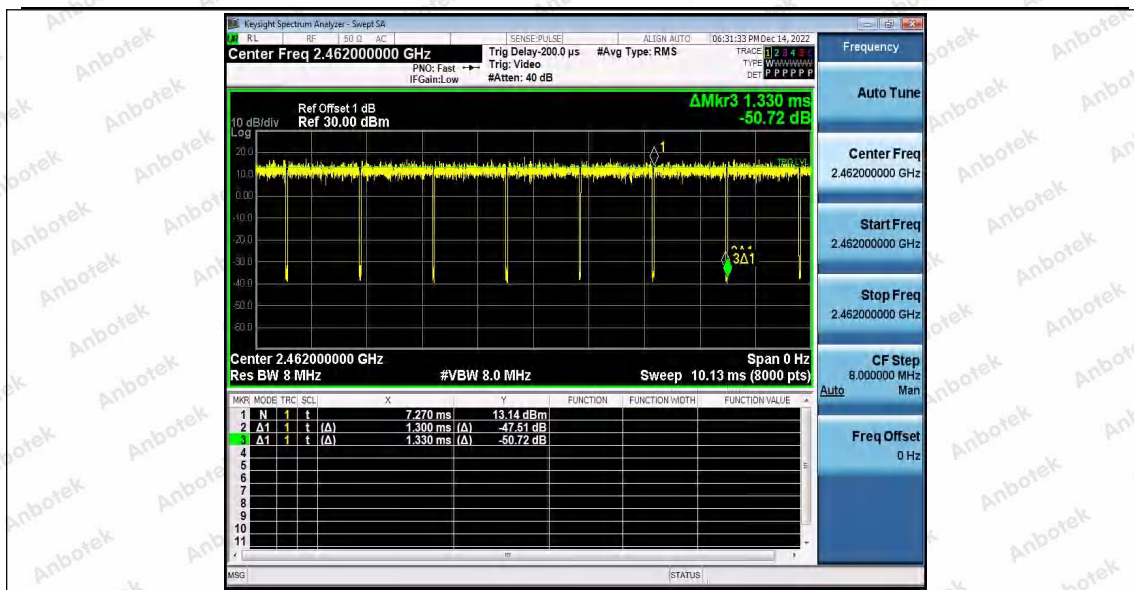
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