

Appendix Test Data

Report No.:	18220WC20286102	Test Sample No.:	1-2-2
Start Test Date:	2022.12.15	Finish Test Date:	2022.12.24
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3C°	Relative Humidity:	17 %
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	7.920	2407.880	2415.800	≥0.5	PASS
		2437	7.600	2433.280	2440.880	≥0.5	PASS
		2462	8.200	2458.160	2466.360	≥0.5	PASS
11G	Ant1	2412	16.400	2403.840	2420.240	≥0.5	PASS
		2437	16.360	2428.840	2445.200	≥0.5	PASS
		2462	16.440	2453.800	2470.240	≥0.5	PASS
11N20	Ant1	2412	17.640	2403.200	2420.840	≥0.5	PASS
		2437	17.680	2428.200	2445.880	≥0.5	PASS
		2462	17.680	2453.200	2470.880	≥0.5	PASS

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Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

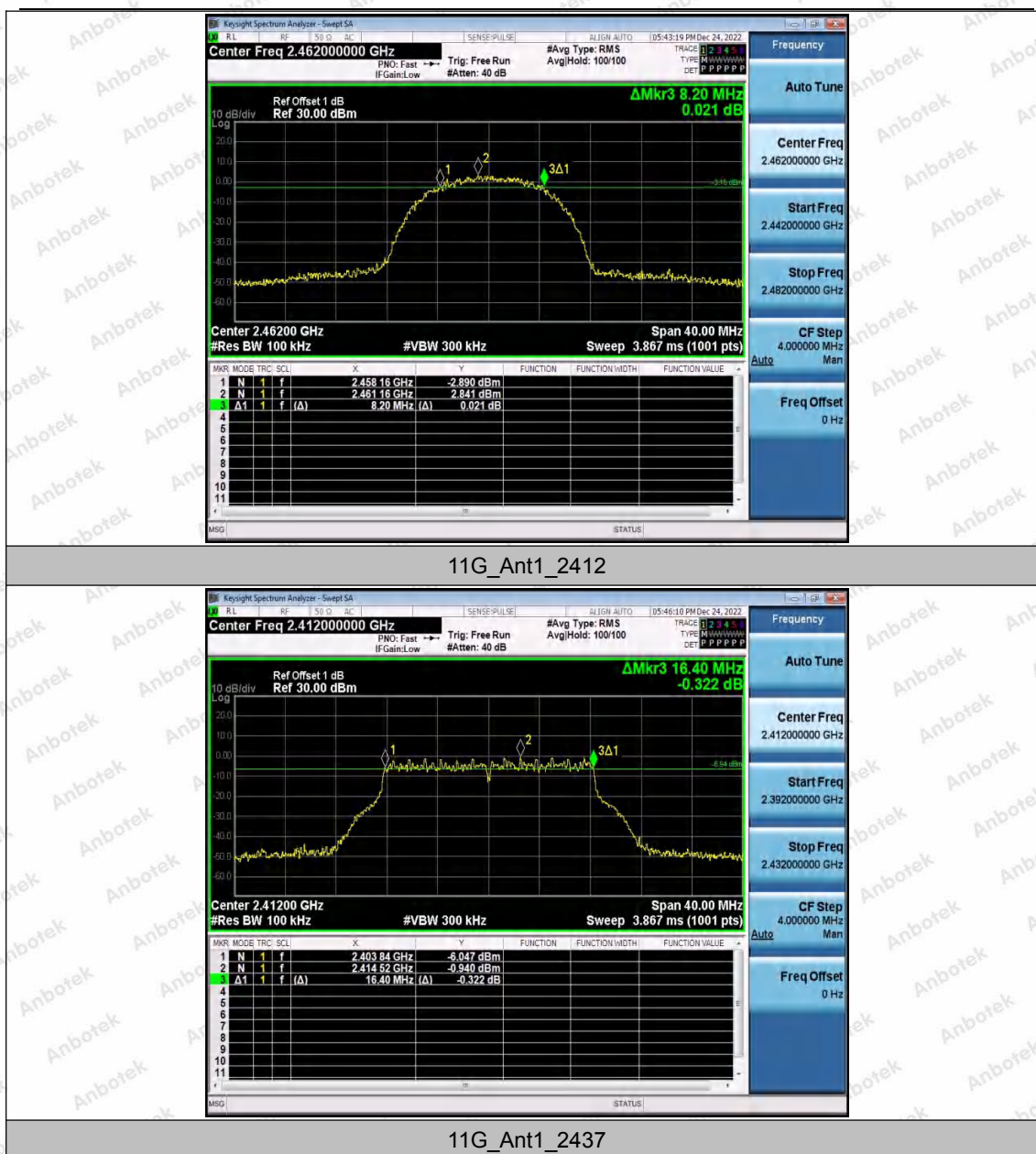
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11G_Ant1_2462



11N20_Ant1_2412

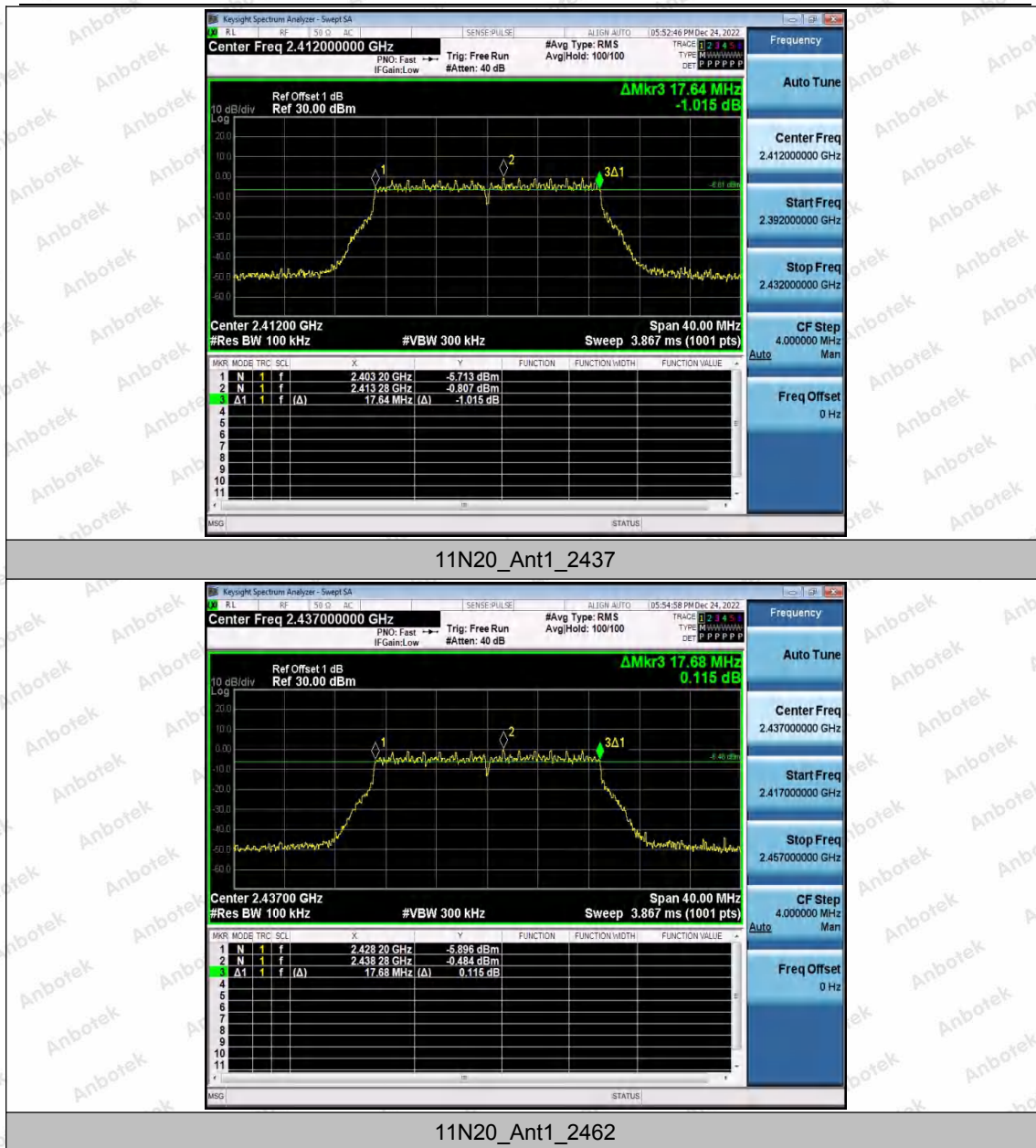
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.204	2406.4565	2417.6605	---	---
		2437	11.256	2431.4493	2442.7053	---	---
		2462	11.316	2456.3967	2467.7127	---	---
11G	Ant1	2412	16.913	2403.6718	2420.5848	---	---
		2437	16.892	2428.6686	2445.5606	---	---
		2462	16.894	2453.6435	2470.5375	---	---
11N20	Ant1	2412	18.076	2403.0330	2421.1090	---	---
		2437	18.064	2428.0330	2446.0970	---	---
		2462	18.139	2452.9574	2471.0964	---	---





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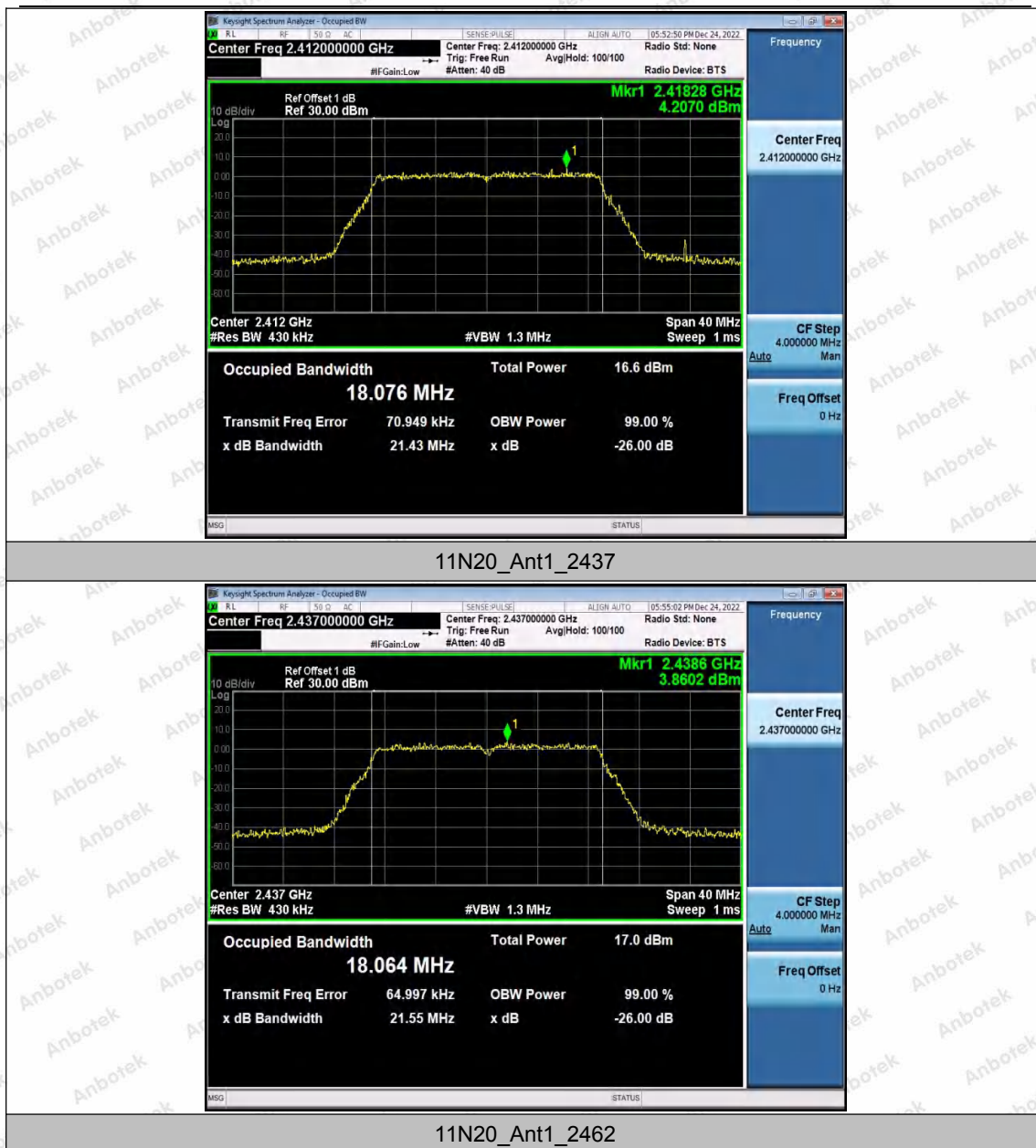
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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	16.71	≤30.00
		2437	17.20	≤30.00
		2462	17.50	≤30.00
11G	Ant1	2412	17.57	≤30.00
		2437	17.95	≤30.00
		2462	18.35	≤30.00
11N20	Ant1	2412	17.55	≤30.00
		2437	17.95	≤30.00
		2462	18.47	≤30.00



Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.85	≤8.00	PASS
		2437	-11.49	≤8.00	PASS
		2462	-9.22	≤8.00	PASS
11G	Ant1	2412	-17.25	≤8.00	PASS
		2437	-16.88	≤8.00	PASS
		2462	-16.3	≤8.00	PASS
11N20	Ant1	2412	-15.01	≤8.00	PASS
		2437	-15.59	≤8.00	PASS
		2462	-14.41	≤8.00	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

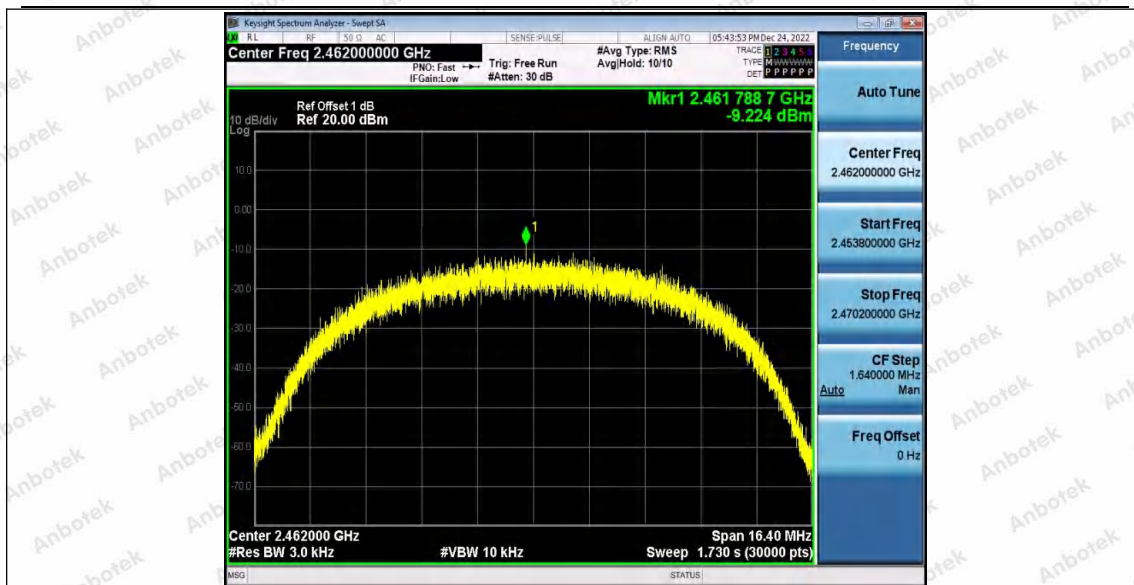
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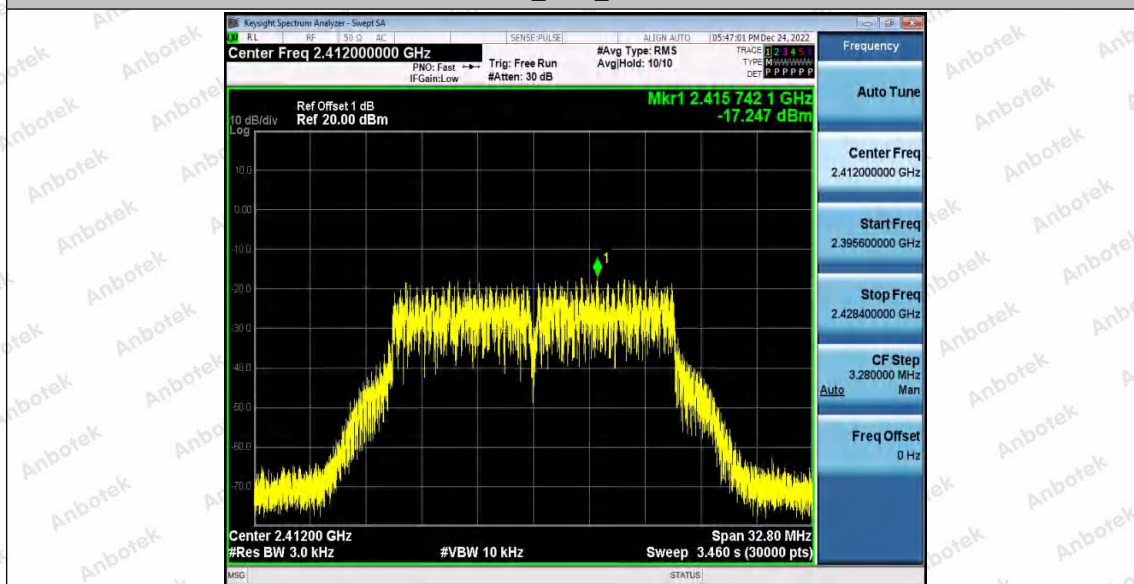


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11G_Ant1_2412



11G_Ant1_2437

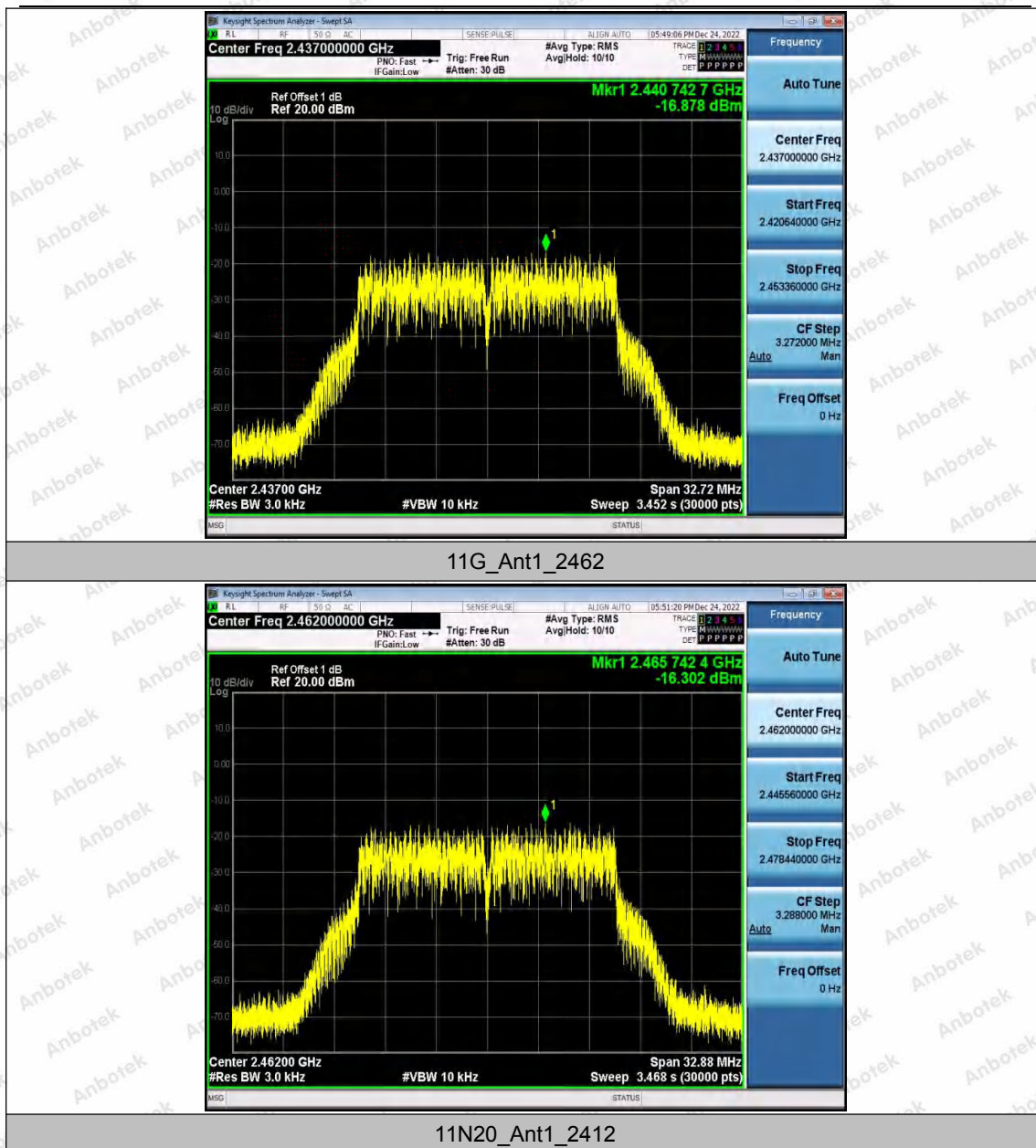
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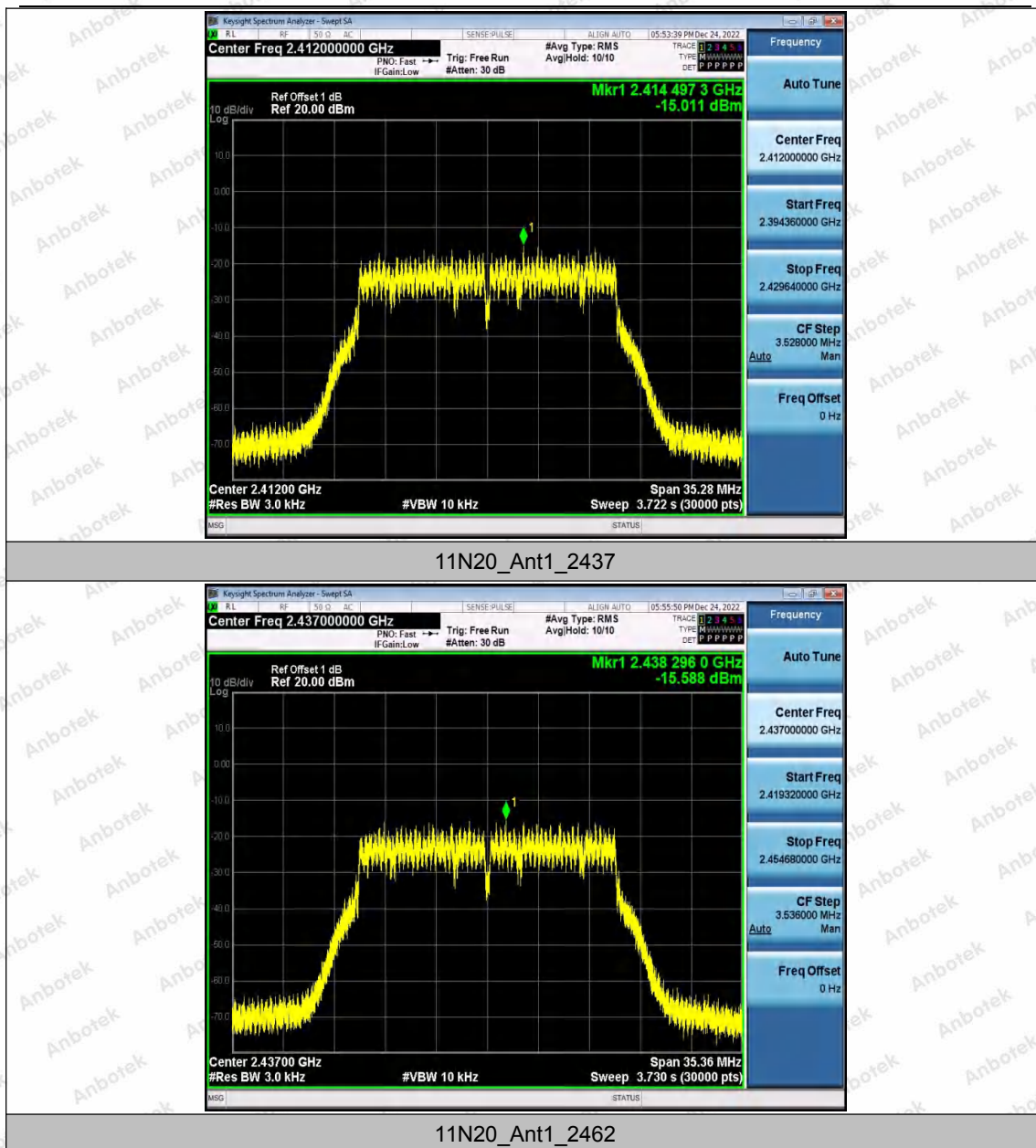
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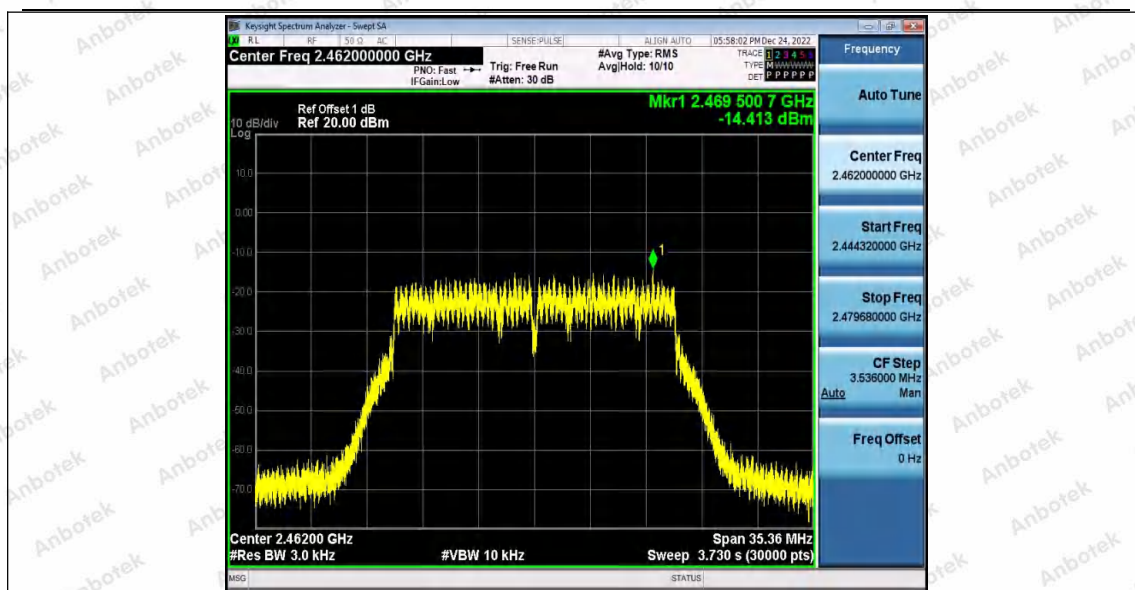
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	2.71	-47.1	≤-17.29	PASS
		High	2462	3.95	-55.23	≤-16.06	PASS
11G	Ant1	Low	2412	-0.73	-47.3	≤-20.73	PASS
		High	2462	0.19	-52.59	≤-19.81	PASS
11N20	Ant1	Low	2412	-0.82	-44.86	≤-20.82	PASS
		High	2462	-0.01	-46.81	≤-20.01	PASS

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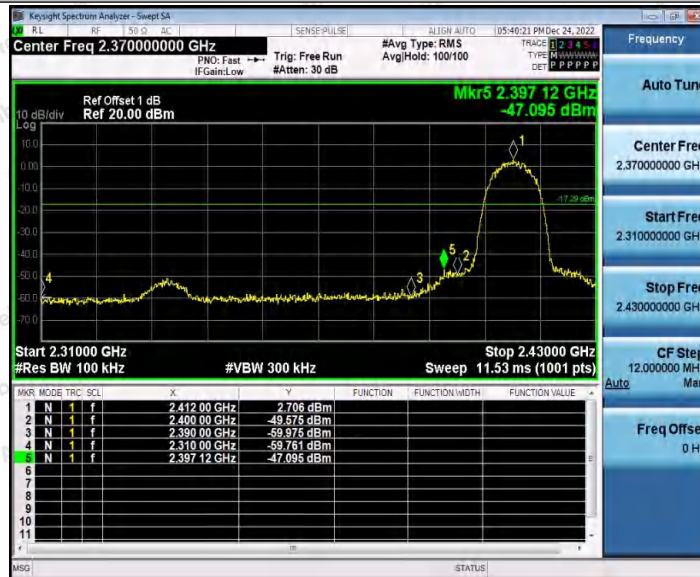


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Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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11N20_Ant1_High_2462



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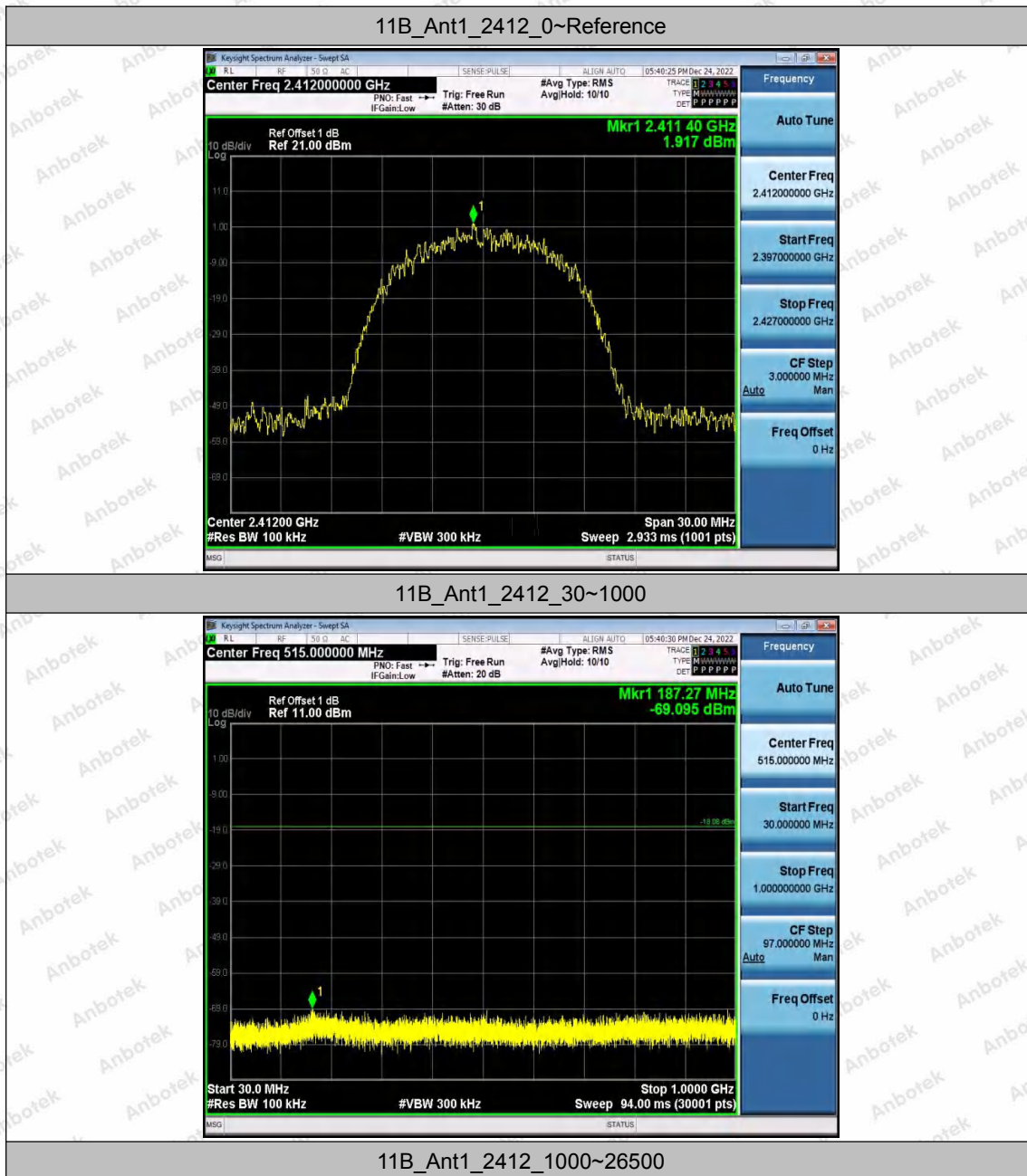
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.92	1.92	---	PASS
			30~1000	1.92	-69.1	≤-18.08	PASS
			1000~26500	1.92	-48.38	≤-18.08	PASS
		2437	Reference	2.44	2.44	---	PASS
			30~1000	2.44	-68.62	≤-17.56	PASS
			1000~26500	2.44	-47.6	≤-17.56	PASS
		2462	Reference	1.79	1.79	---	PASS
			30~1000	1.79	-68.66	≤-18.21	PASS
			1000~26500	1.79	-48.54	≤-18.21	PASS
11G	Ant1	2412	Reference	-1.12	-1.12	---	PASS
			30~1000	-1.12	-68.14	≤-21.12	PASS
			1000~26500	-1.12	-44.73	≤-21.12	PASS
		2437	Reference	-0.67	-0.67	---	PASS
			30~1000	-0.67	-67.58	≤-20.67	PASS
			1000~26500	-0.67	-46.35	≤-20.67	PASS
		2462	Reference	-0.23	-0.23	---	PASS
			30~1000	-0.23	-68.7	≤-20.23	PASS
			1000~26500	-0.23	-44.34	≤-20.23	PASS
11N20	Ant1	2412	Reference	-1.62	-1.62	---	PASS
			30~1000	-1.62	-69.74	≤-21.62	PASS
			1000~26500	-1.62	-46.06	≤-21.62	PASS
		2437	Reference	-0.77	-0.77	---	PASS
			30~1000	-0.77	-68.83	≤-20.77	PASS
			1000~26500	-0.77	-44.43	≤-20.77	PASS
		2462	Reference	0.04	0.04	---	PASS
			30~1000	0.04	-68.83	≤-19.96	PASS
			1000~26500	0.04	-43.93	≤-19.96	PASS



Test Graphs



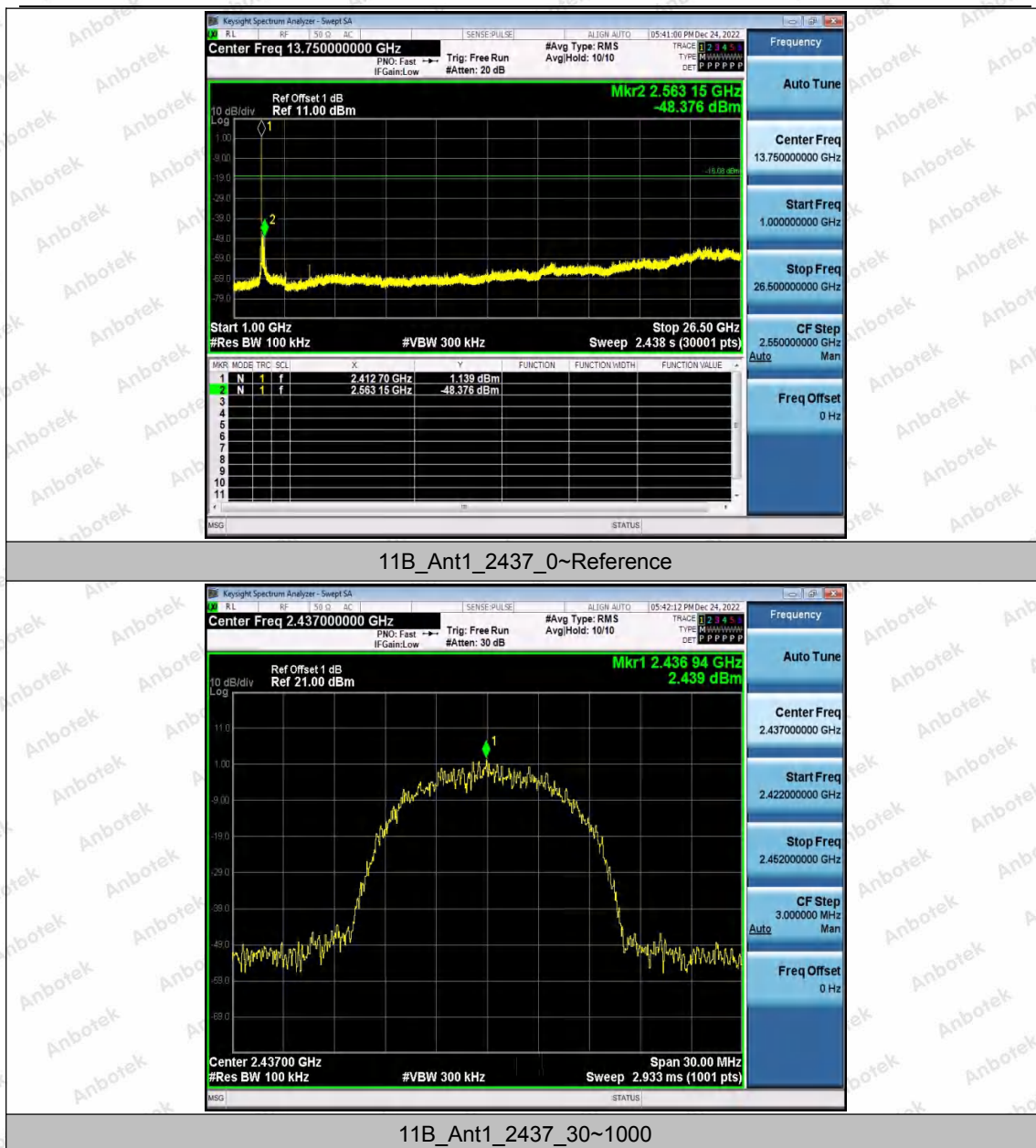
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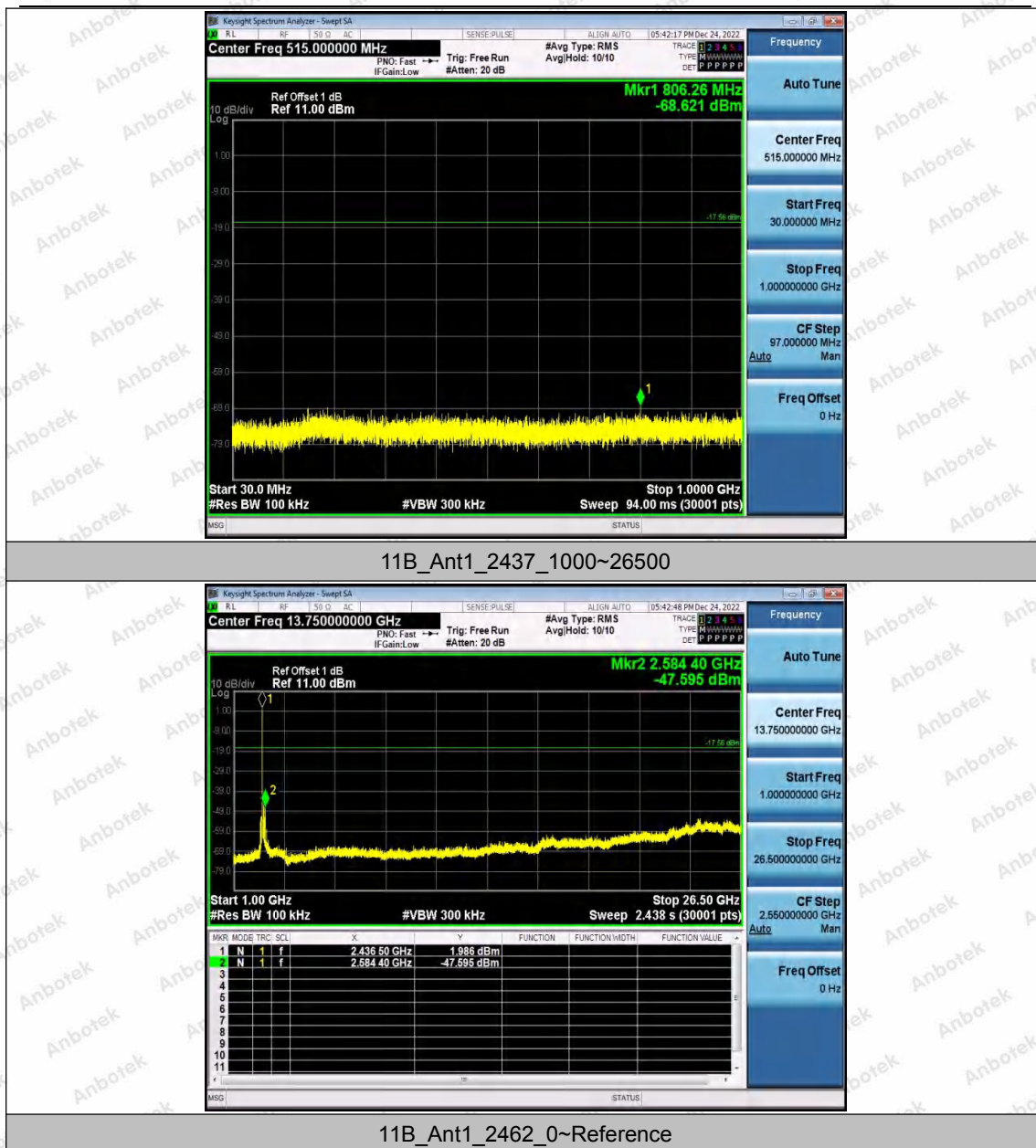
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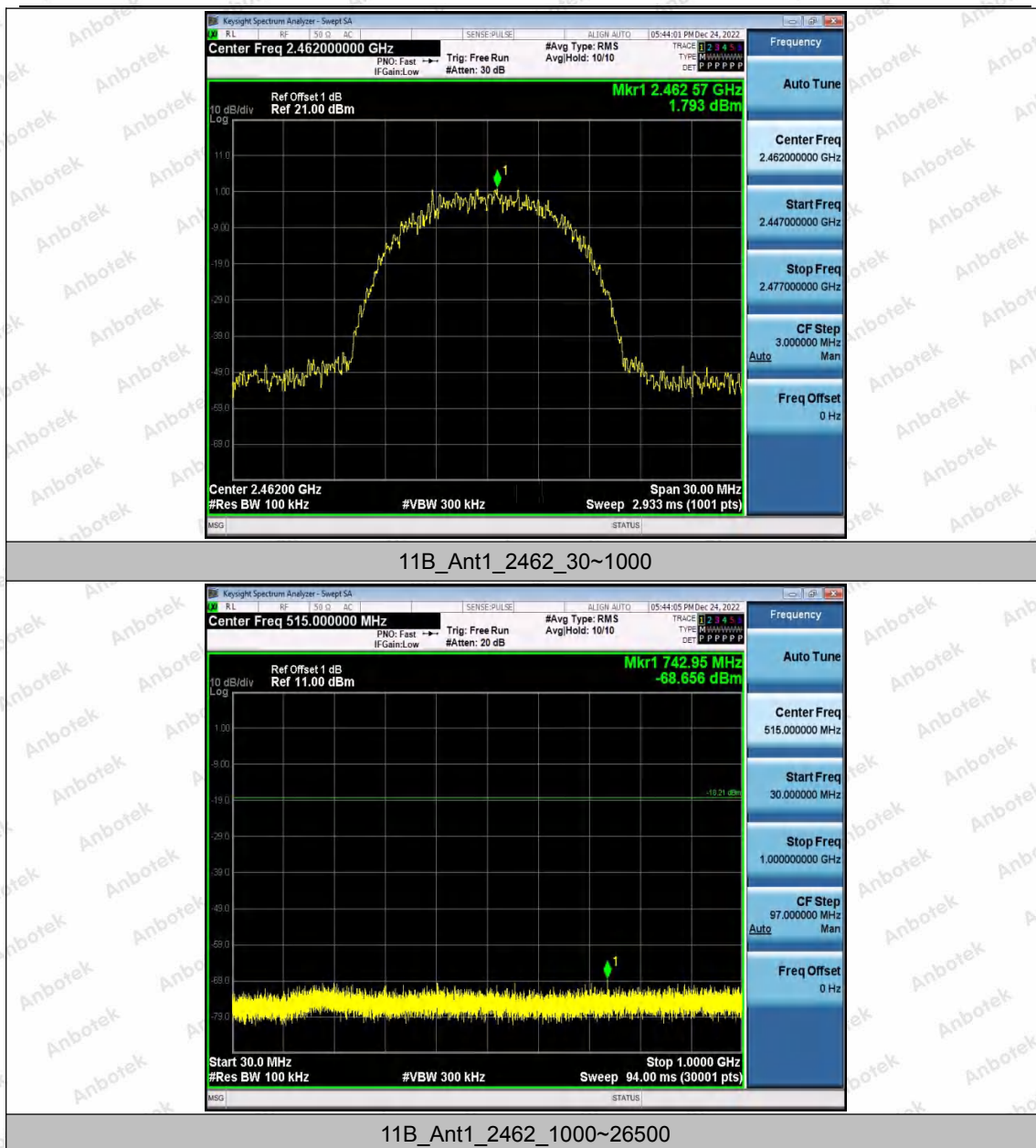
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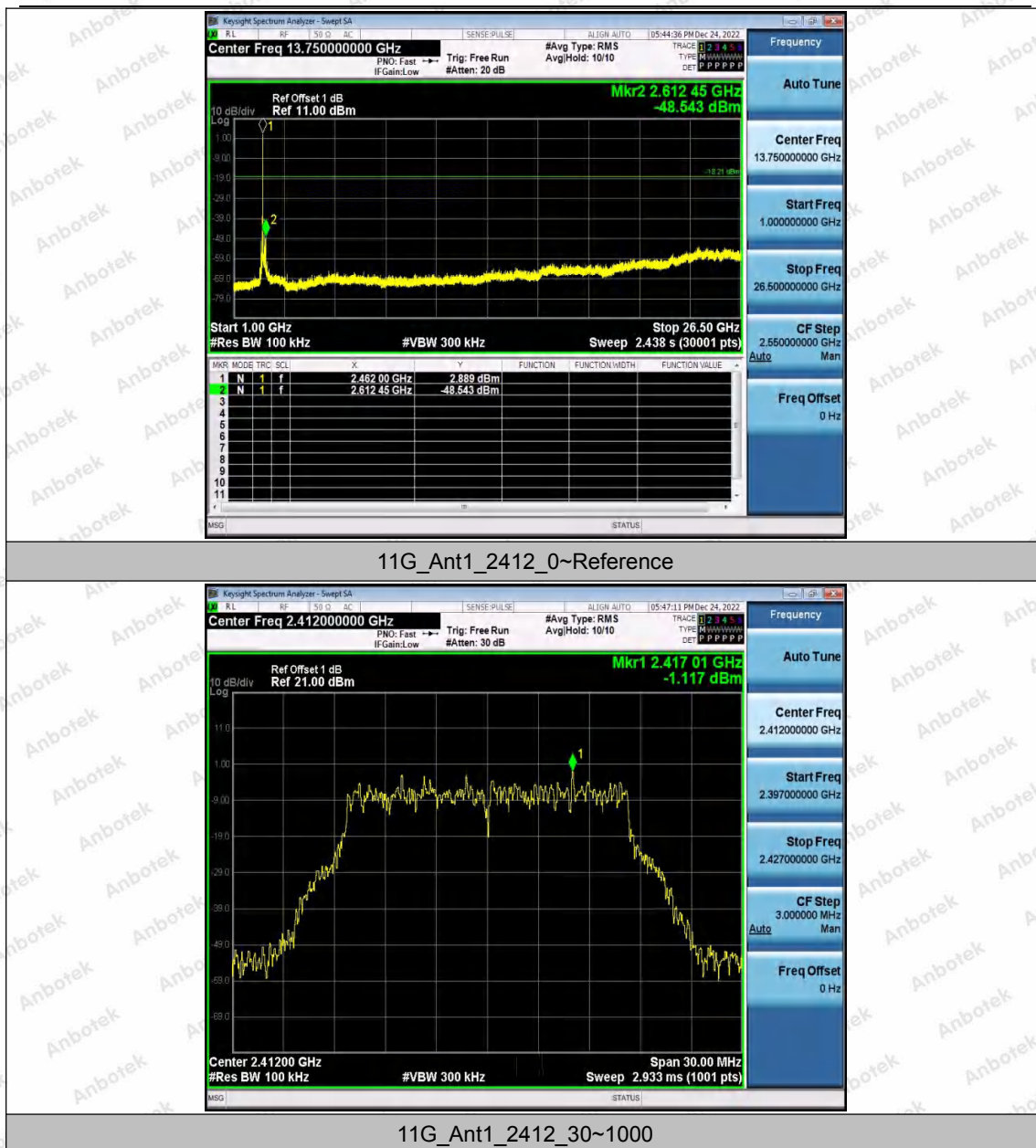
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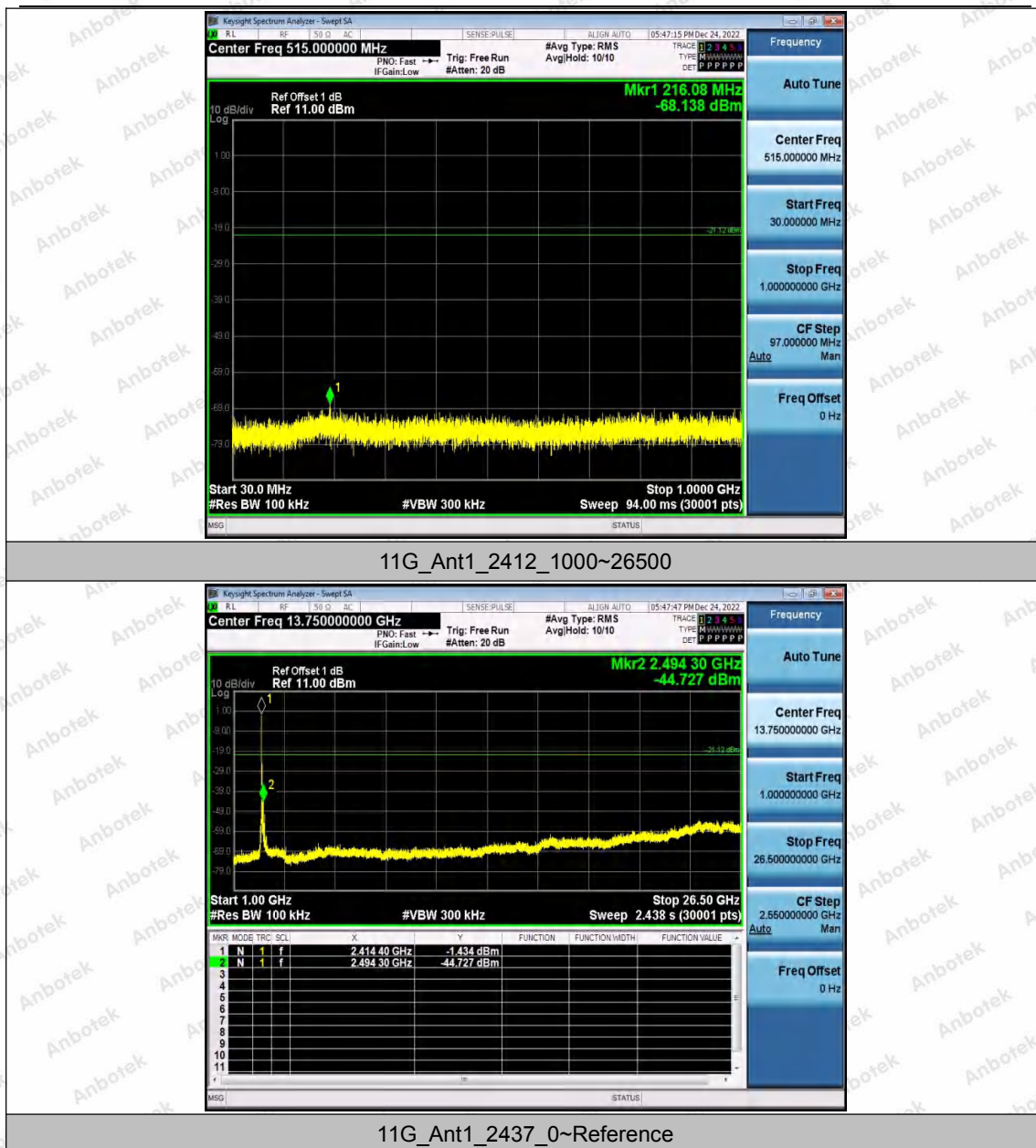
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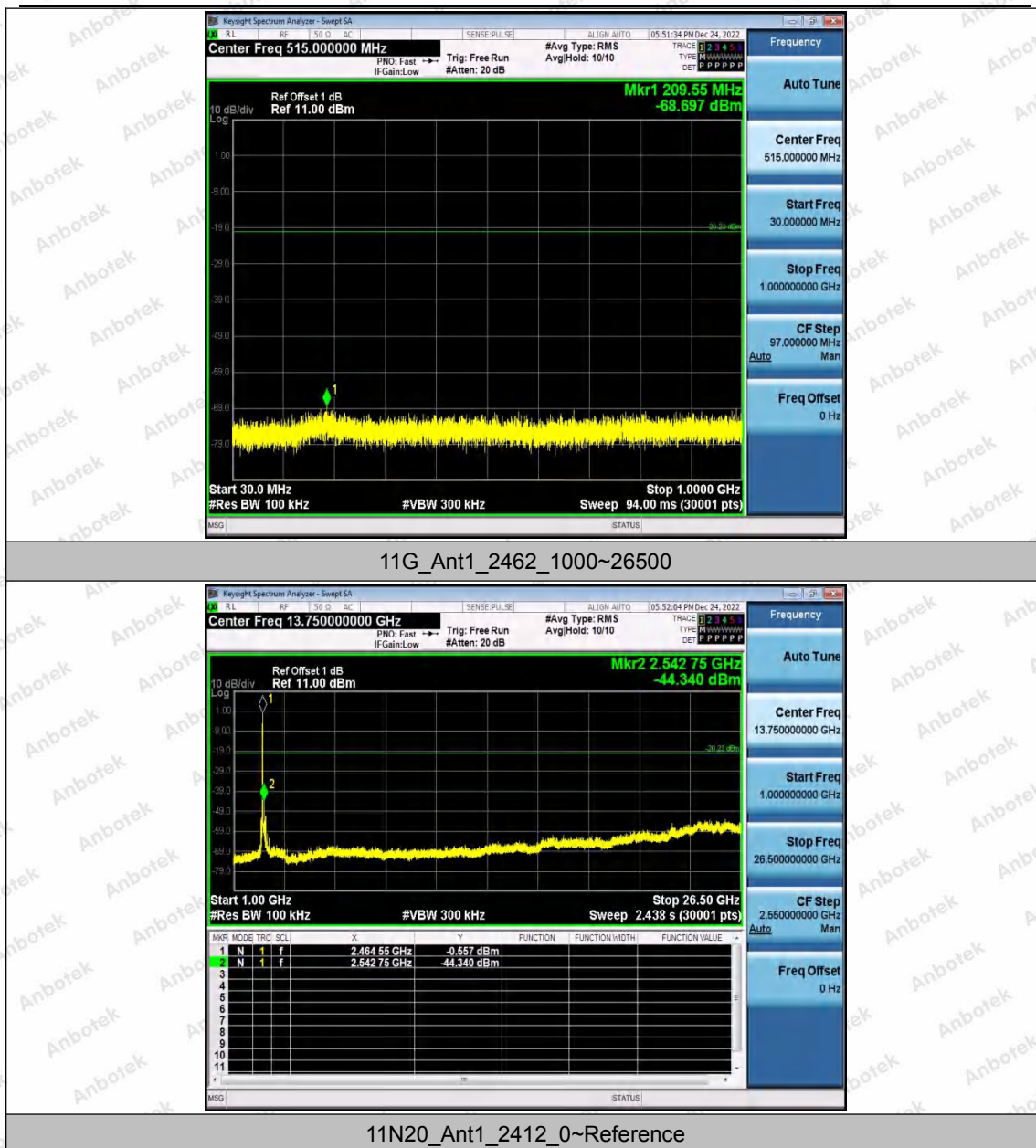
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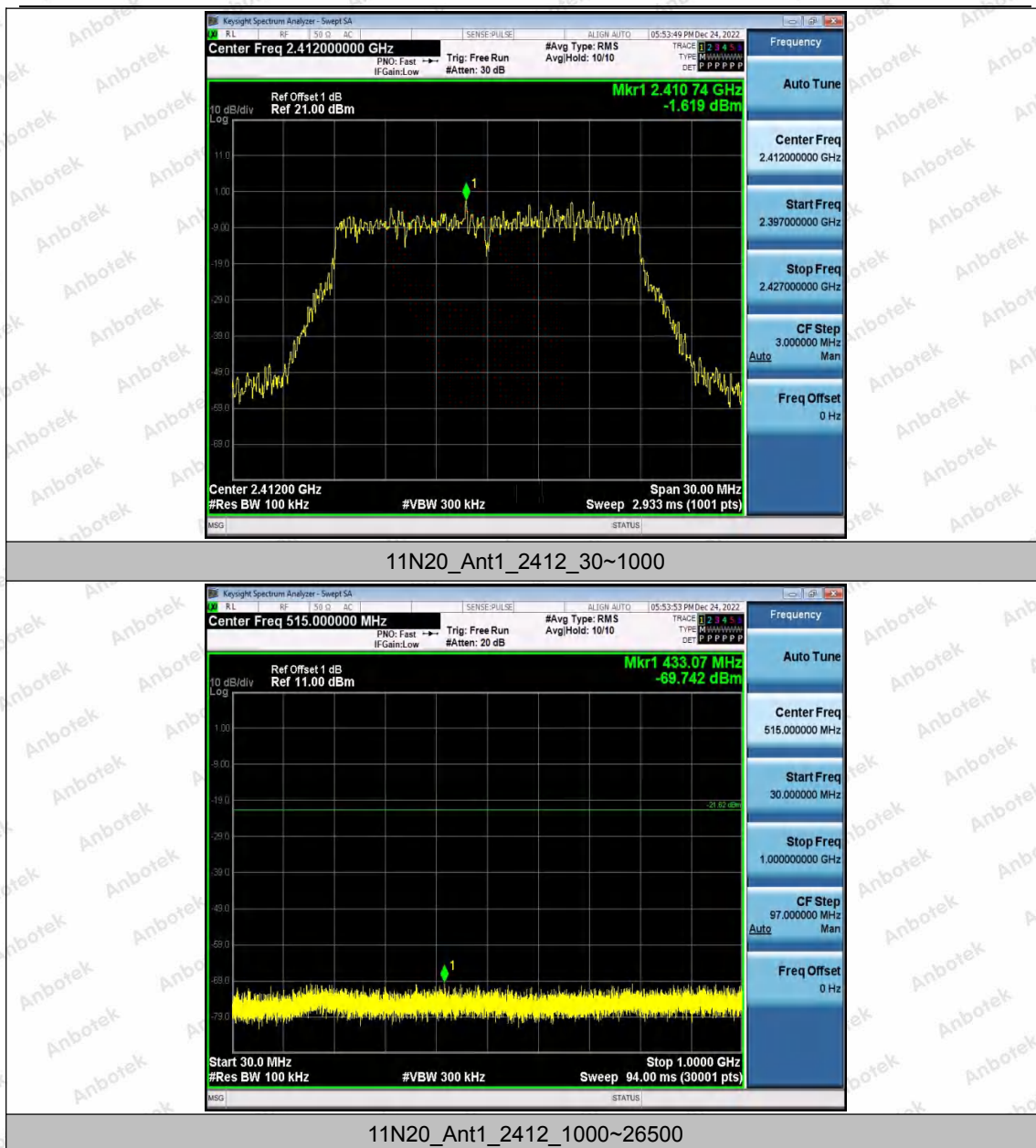
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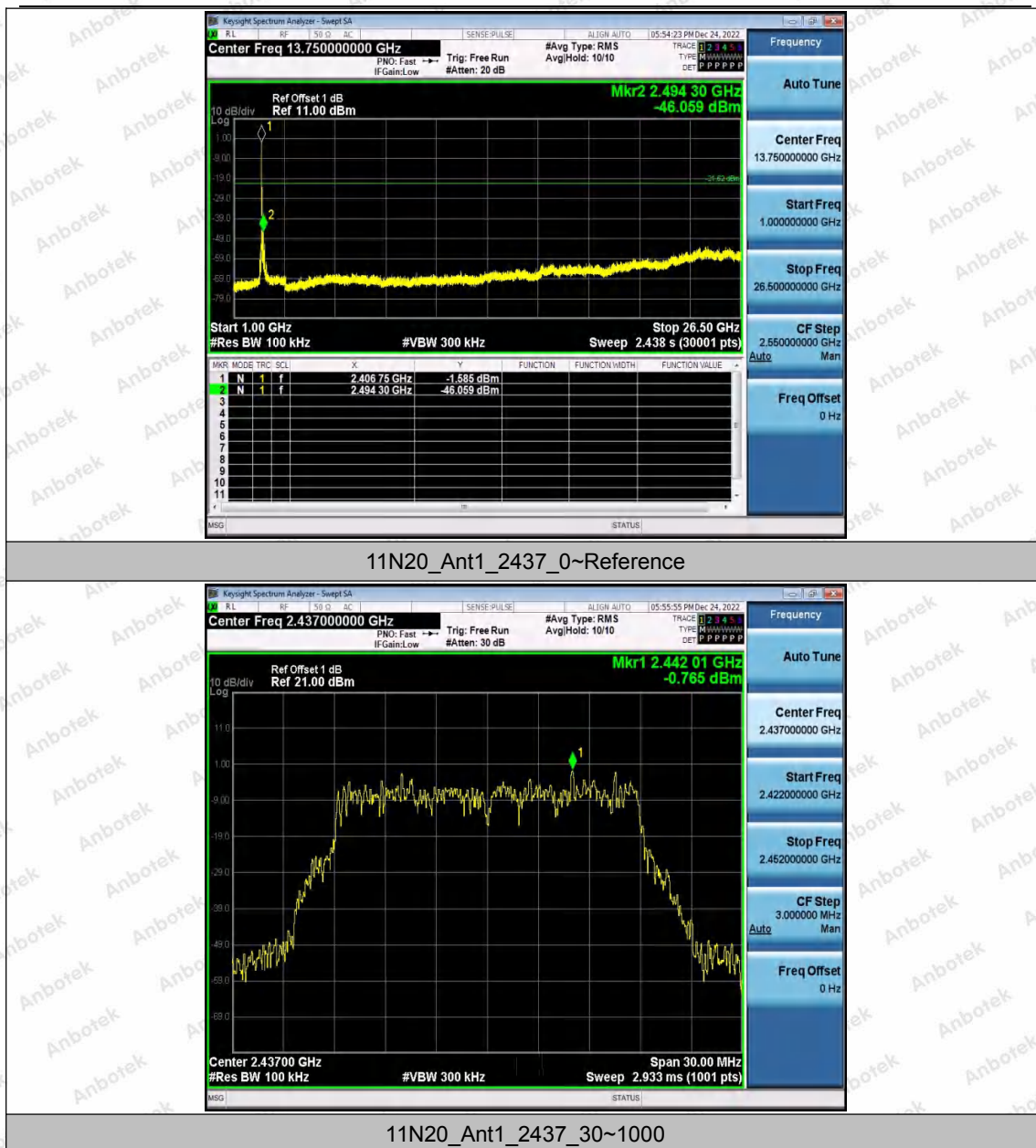


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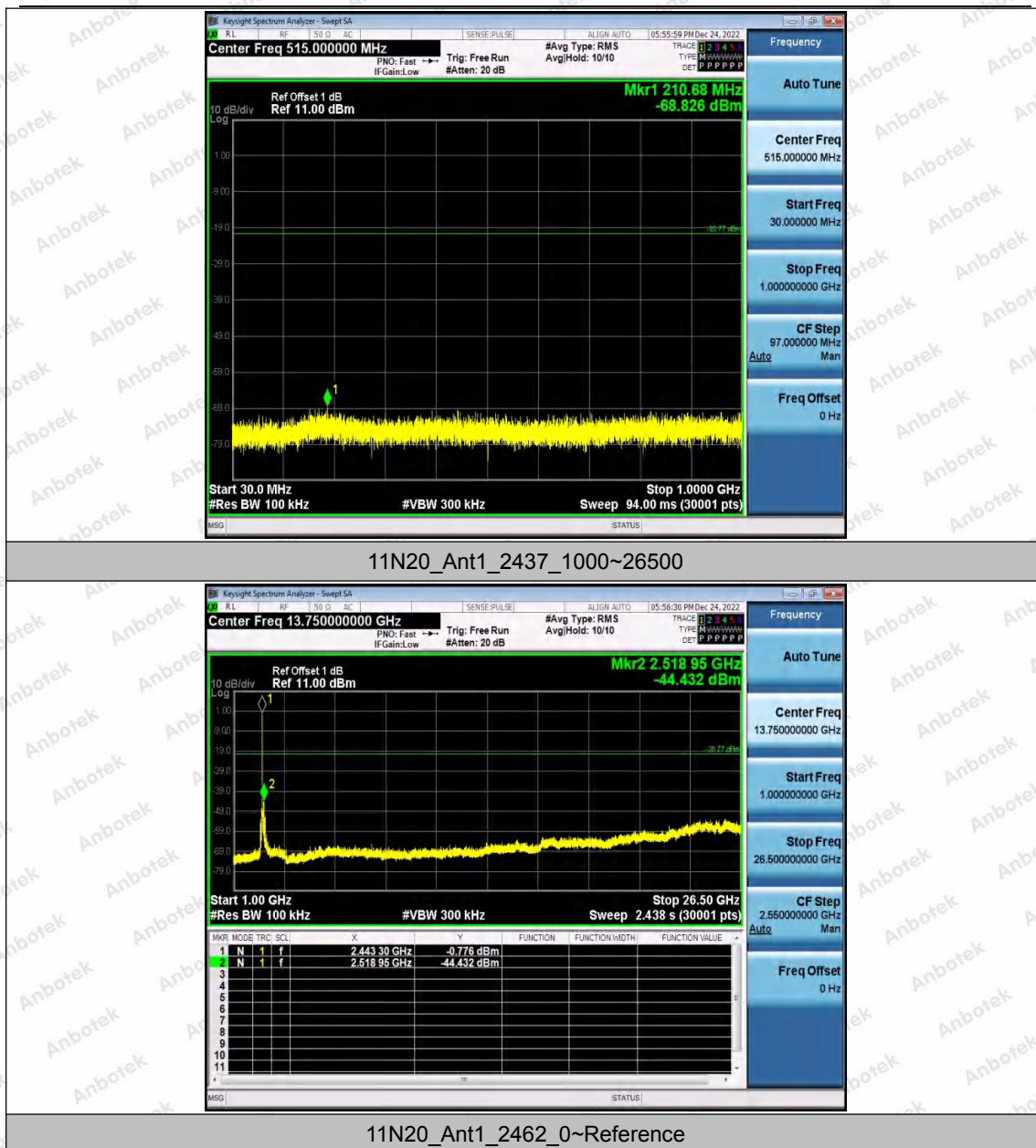
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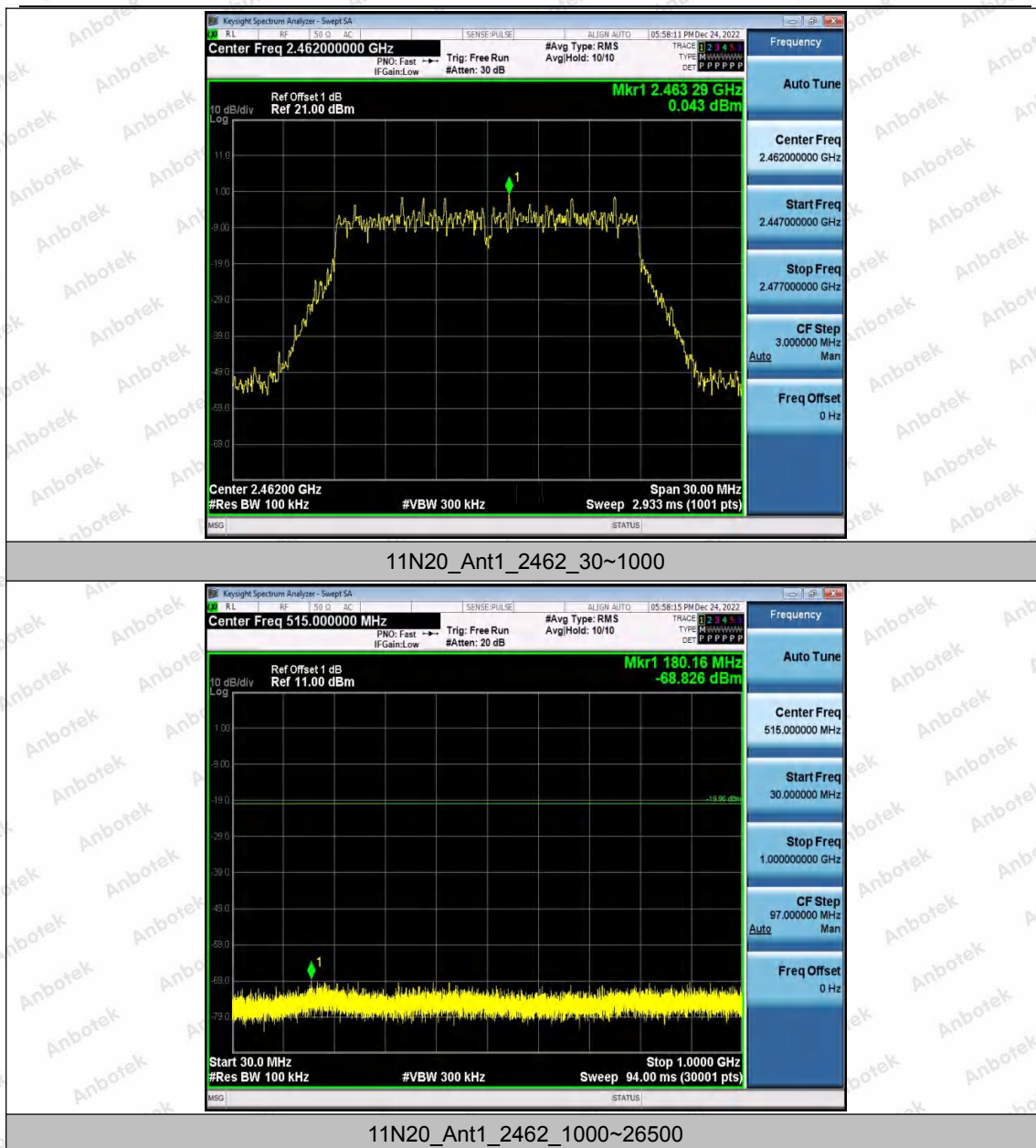
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Appendix G: Duty Cycle

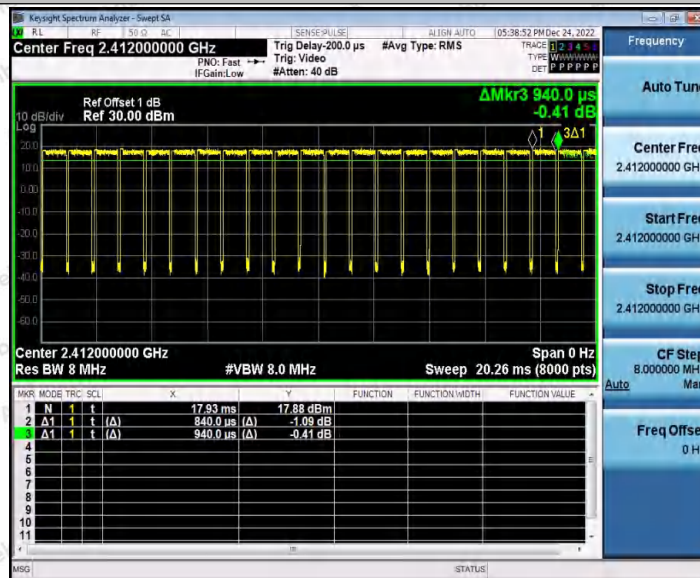
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	0.84	0.94	89.36	0.49
		2437	0.85	0.94	90.43	0.44
		2462	0.84	0.94	89.36	0.49
11G	Ant1	2412	0.17	0.28	60.71	2.17
		2437	0.18	0.28	64.29	1.92
		2462	0.18	0.28	64.29	1.92
11N20	Ant1	2412	0.17	0.27	62.96	2.01
		2437	0.16	0.27	59.26	2.27
		2462	0.16	0.27	59.26	2.27

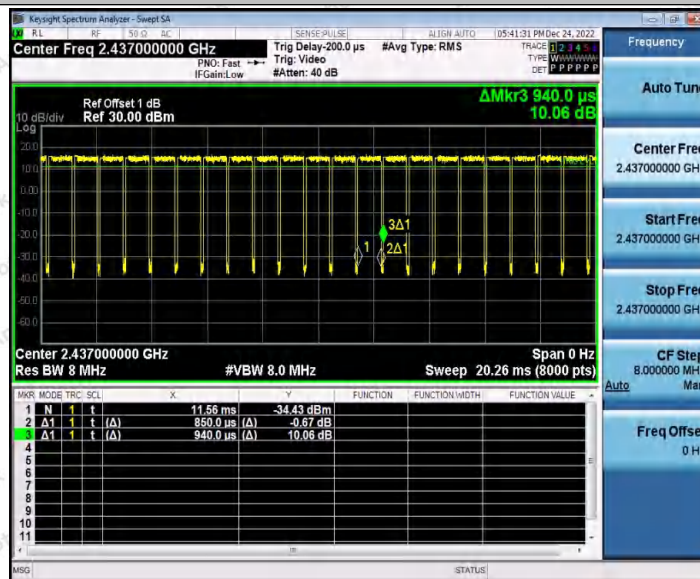


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

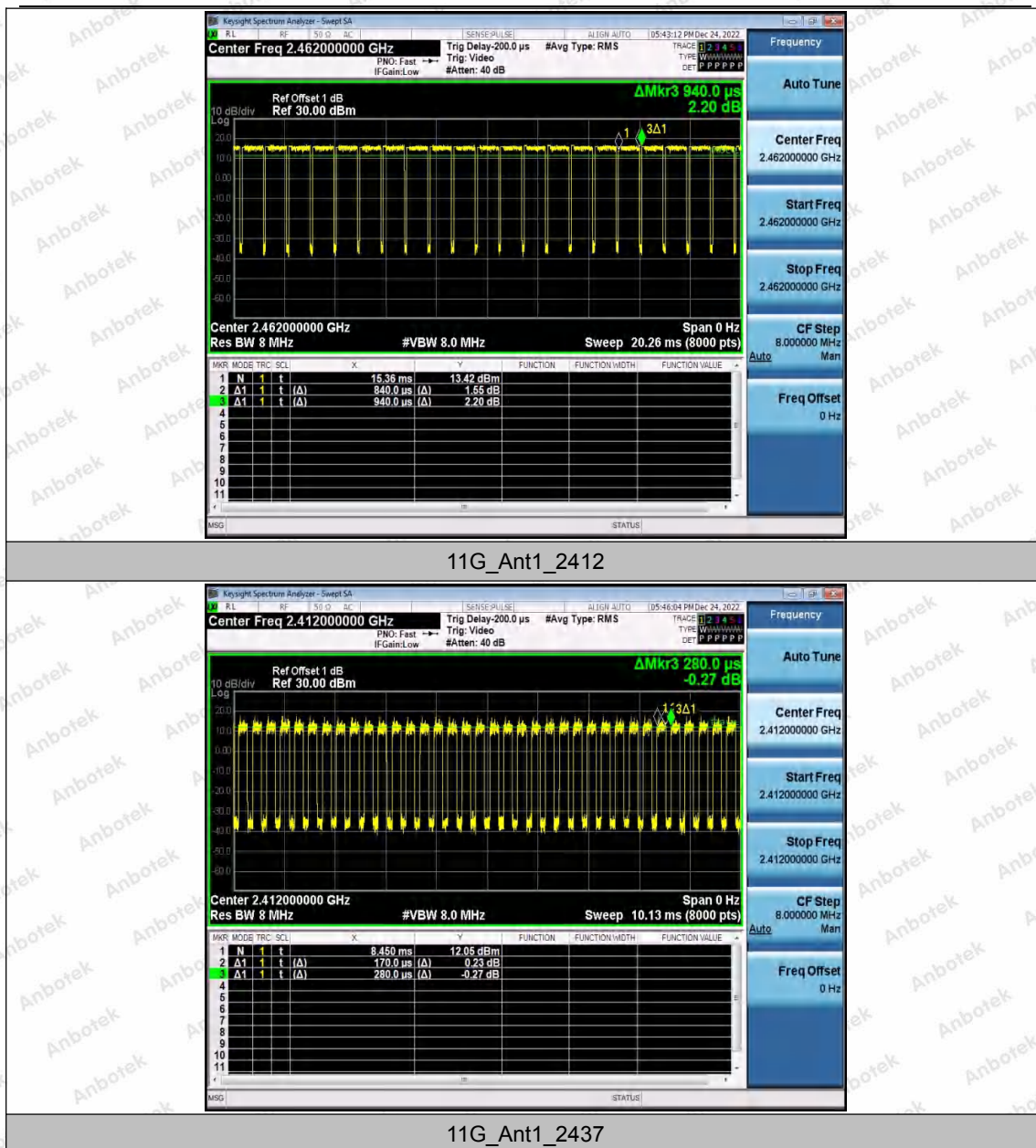
Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



Hotline
400-003-0500
www.anbotek.com.cn



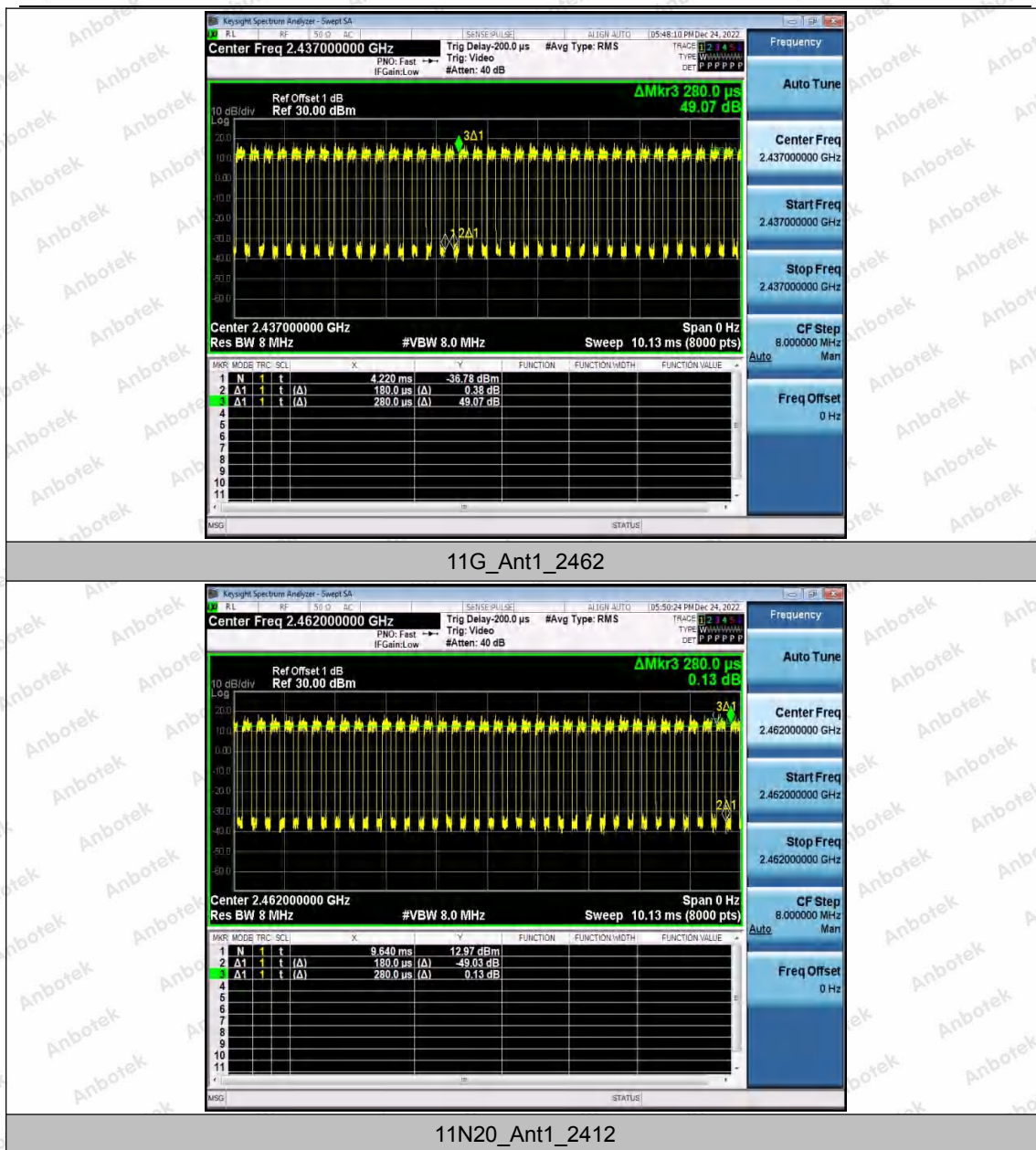


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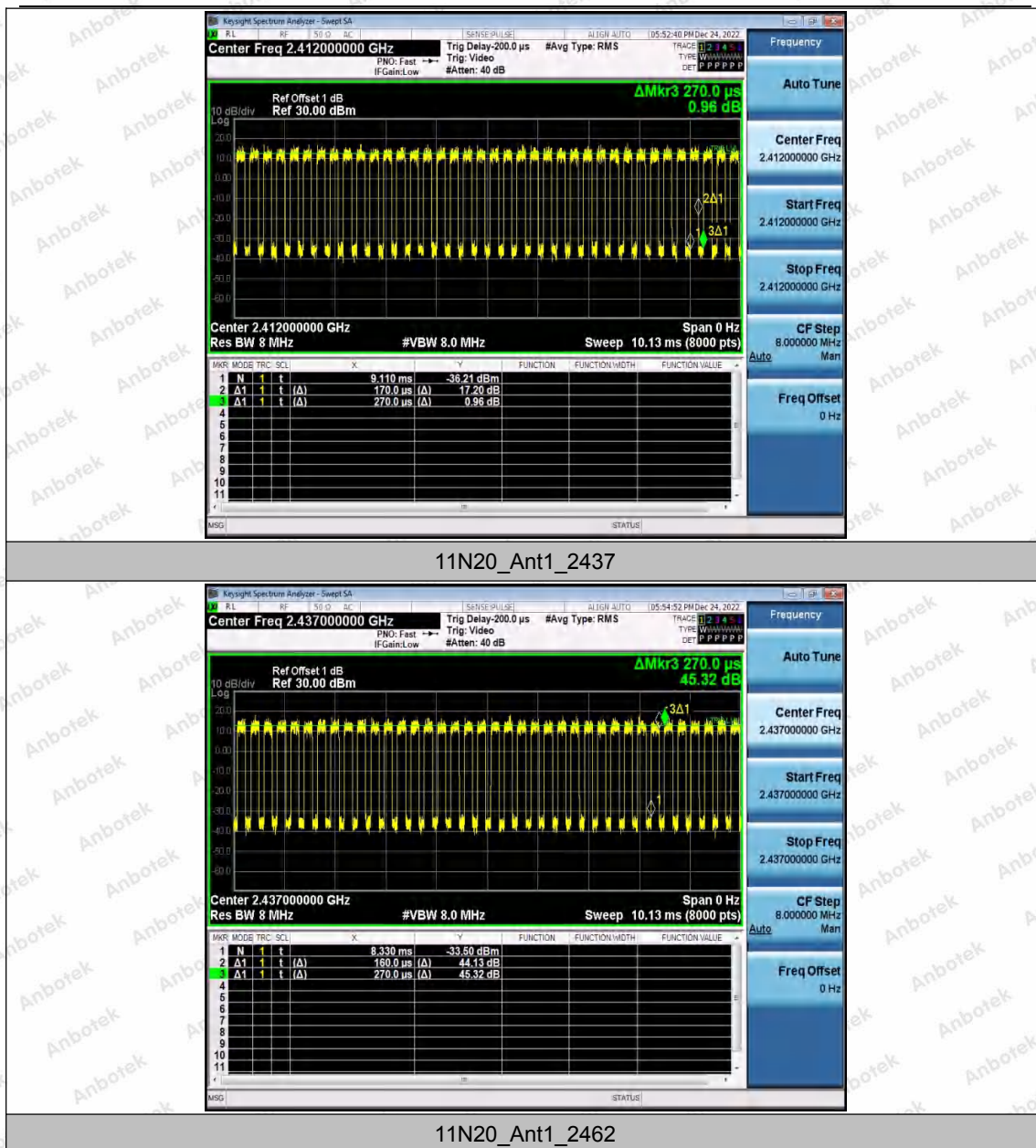
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



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www.anbotek.com.cn





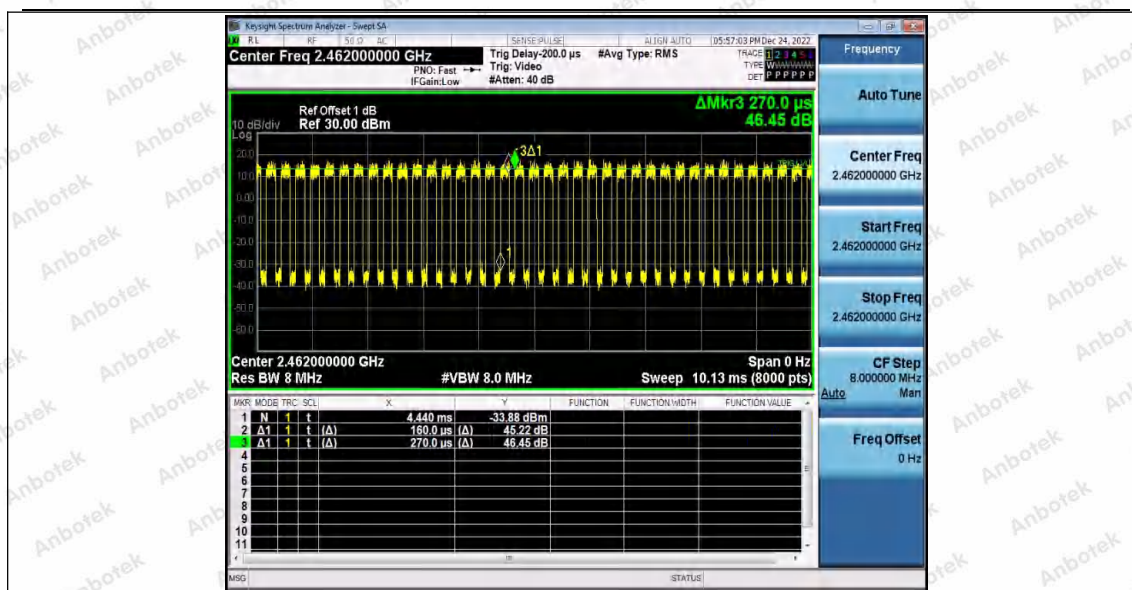
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



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400-003-0500
www.anbotek.com.cn





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Shenzhen Anbotech Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotech.com



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400-003-0500
www.anbotech.com.cn

