

Appendix Test Data

Report No.:	18220WC30003601	Test Sample No.:	1-2-2
Start Test Date:	2023.1.10	Finish Test Date:	2023.1.11
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°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	9.560	2407.480	2417.040	≥0.5	PASS
		2437	8.560	2432.480	2441.040	≥0.5	PASS
		2462	9.520	2457.000	2466.520	≥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	16.360	2453.800	2470.160	≥0.5	PASS
11AX20	Ant1	2412	17.560	2403.240	2420.800	≥0.5	PASS
		2437	17.520	2428.240	2445.760	≥0.5	PASS
		2462	17.560	2453.200	2470.760	≥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

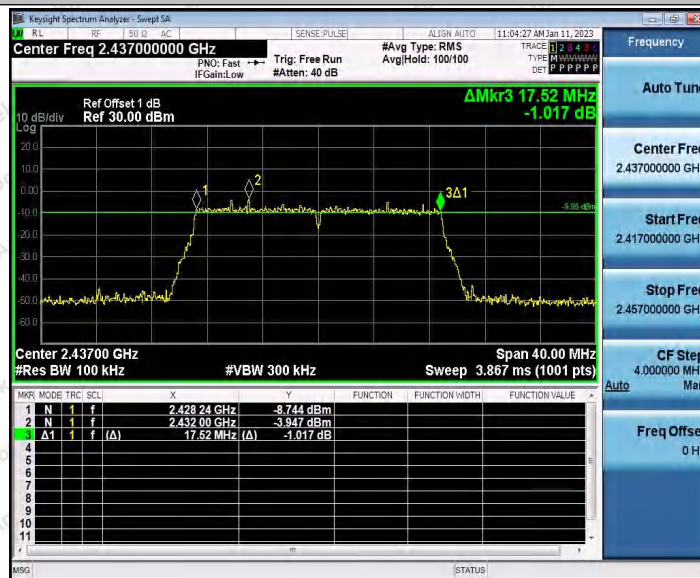


11AX20_Ant1_2412



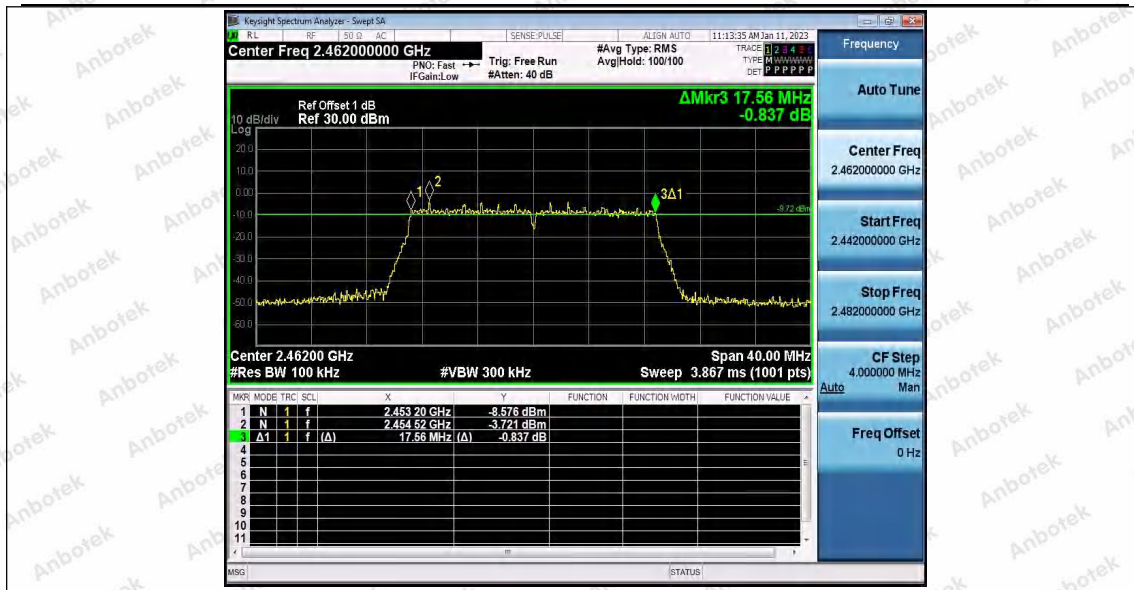


11AX20_Ant1_2437



11AX20_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	12.295	2405.9309	2418.2259
		2437	12.300	2430.8504	2443.1504
		2462	12.351	2455.8217	2468.1727
11G	Ant1	2412	17.031	2403.5649	2420.5959
		2437	17.050	2428.4501	2445.5001
		2462	17.077	2453.4560	2470.5330
11AX20	Ant1	2412	17.899	2403.1256	2421.0246
		2437	17.932	2428.0322	2445.9642
		2462	17.995	2452.9838	2470.9788



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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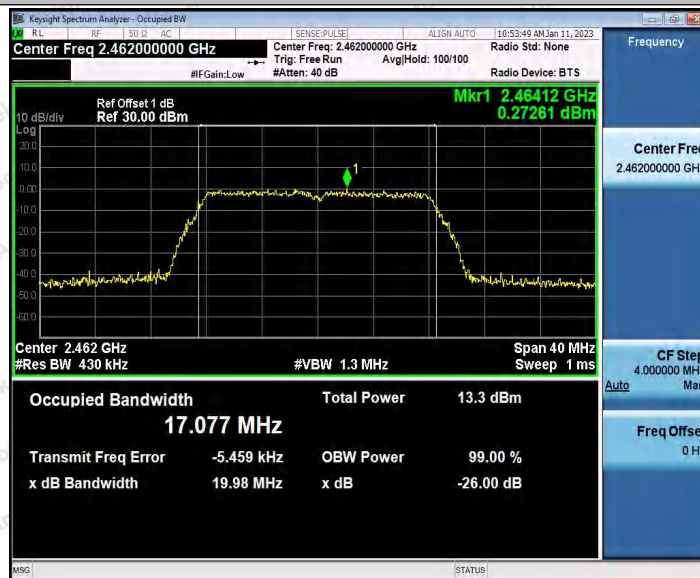


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11G_Ant1_2462



11AX20_Ant1_2412

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11AX20_Ant1_2437



11AX20_Ant1_2462

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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	15.21	≤30.00
		2437	15.00	≤30.00
		2462	15.64	≤30.00
11G	Ant1	2412	14.53	≤30.00
		2437	14.35	≤30.00
		2462	14.48	≤30.00
11AX20	Ant1	2412	14.68	≤30.00
		2437	14.45	≤30.00
		2462	14.61	≤30.00

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Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.84	≤8.00	PASS
		2437	3.06	≤8.00	PASS
		2462	-9.16	≤8.00	PASS
11G	Ant1	2412	-16.28	≤8.00	PASS
		2437	-17.69	≤8.00	PASS
		2462	-16.54	≤8.00	PASS
11AX20	Ant1	2412	-17.61	≤8.00	PASS
		2437	-18.04	≤8.00	PASS
		2462	-17.62	≤8.00	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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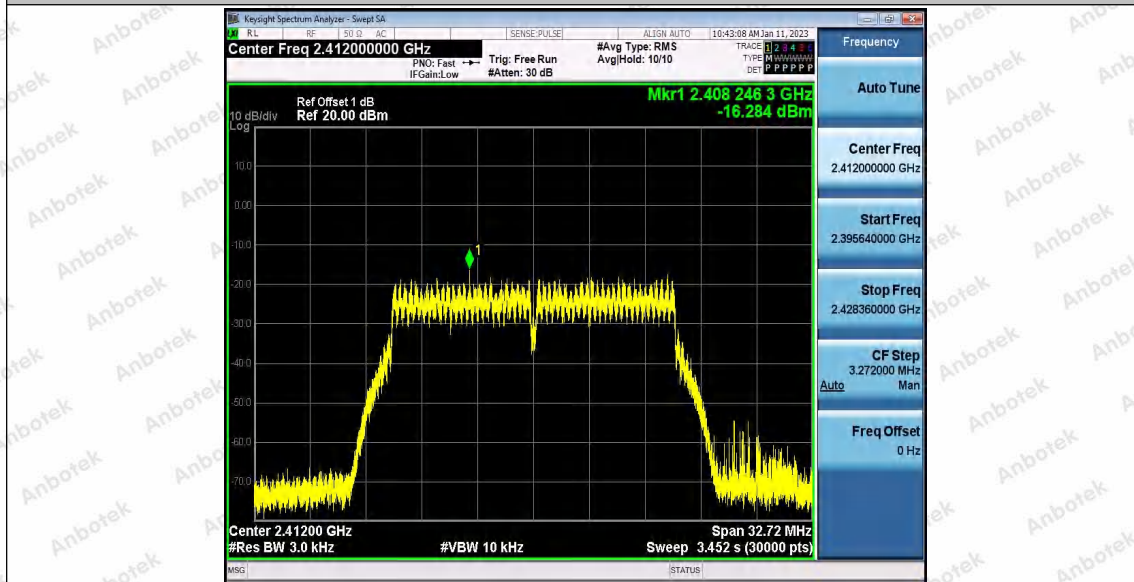


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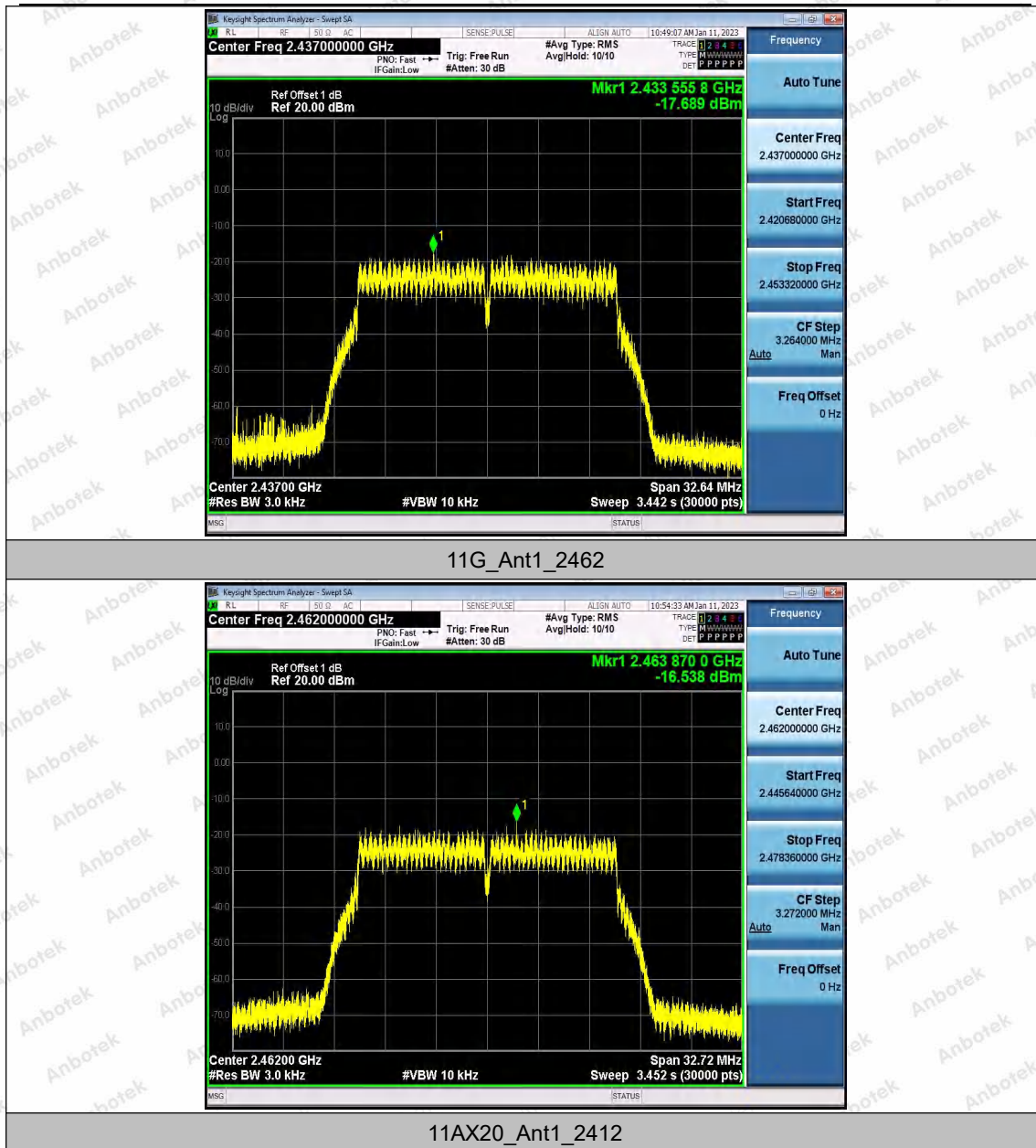


11G_Ant1_2412



11G_Ant1_2437





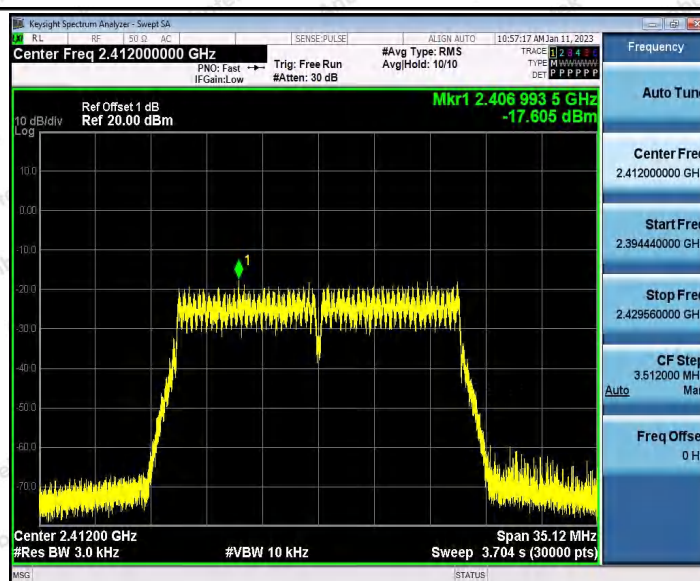
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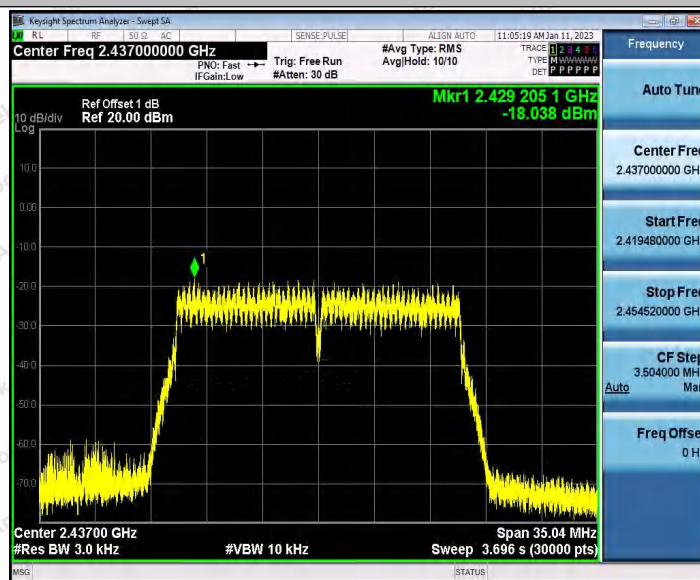


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11AX20_Ant1_2437



11AX20_Ant1_2462

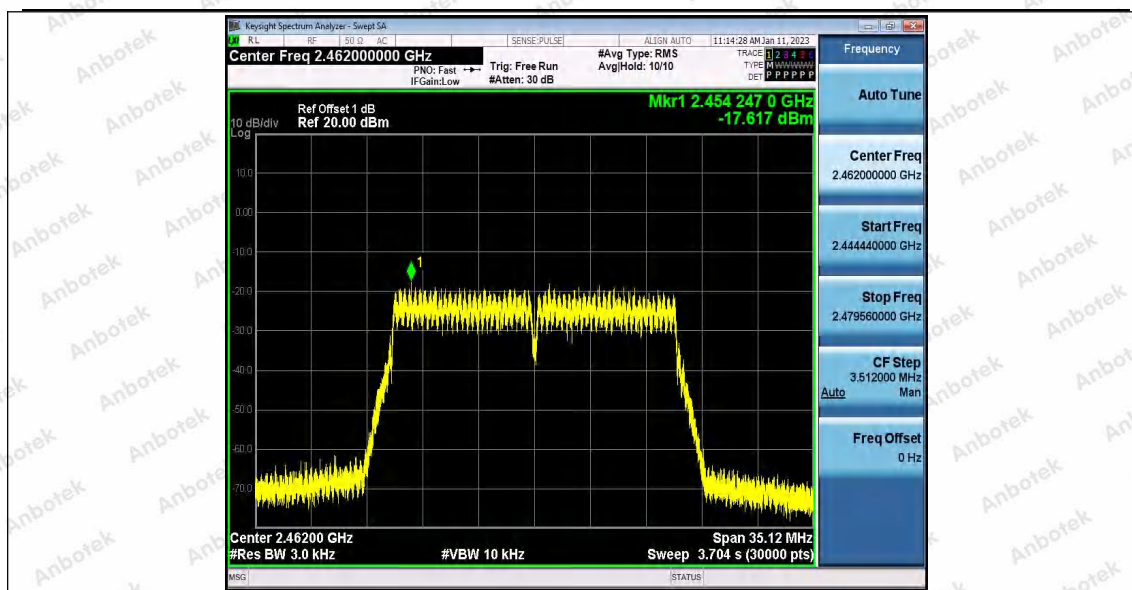
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Appendix E: Band edge measurements

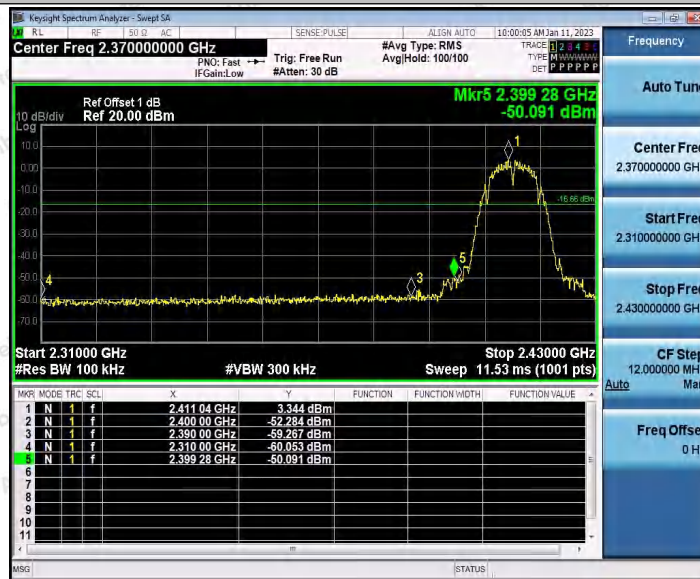
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.34	-50.09	≤-16.66	PASS
		High	2462	3.90	-55.84	≤-16.1	PASS
11G	Ant1	Low	2412	-4.03	-51.37	≤-24.03	PASS
		High	2462	-3.74	-54.51	≤-23.74	PASS
11AX20	Ant1	Low	2412	-3.49	-48.87	≤-23.49	PASS
		High	2462	-4.29	-55.05	≤-24.29	PASS



Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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11G_Ant1_High_2462



11AX20_Ant1_Low_2412

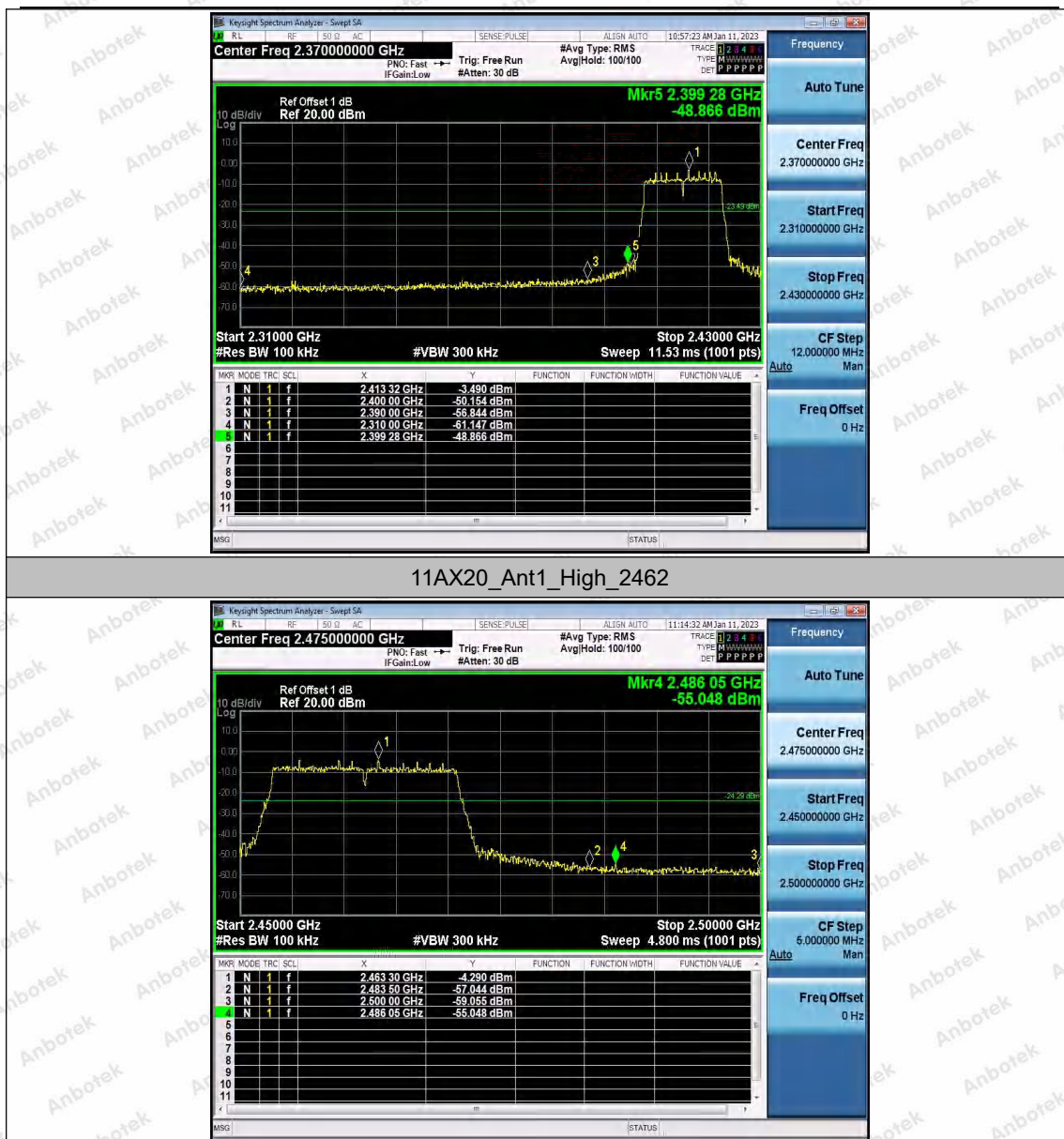
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.18	2.18	---	PASS
			30~1000	2.18	-69.25	≤-17.82	PASS
			1000~26500	2.18	-52.99	≤-17.82	PASS
		2437	Reference	1.65	1.65	---	PASS
			30~1000	1.65	-69.08	≤-18.35	PASS
			1000~26500	1.65	-53.55	≤-18.35	PASS
		2462	Reference	3.50	3.50	---	PASS
			30~1000	3.50	-68.81	≤-16.5	PASS
			1000~26500	3.50	-52.66	≤-16.5	PASS
11G	Ant1	2412	Reference	-5.73	-5.73	---	PASS
			30~1000	-5.73	-43.34	≤-25.73	PASS
			1000~26500	-5.73	-53.32	≤-25.73	PASS
		2437	Reference	-5.52	-5.52	---	PASS
			30~1000	-5.52	-68.46	≤-25.52	PASS
			1000~26500	-5.52	-53.42	≤-25.52	PASS
		2462	Reference	-3.95	-3.95	---	PASS
			30~1000	-3.95	-69.14	≤-23.95	PASS
			1000~26500	-3.95	-52.81	≤-23.95	PASS
11AX20	Ant1	2412	Reference	-4.77	-4.77	---	PASS
			30~1000	-4.77	-66.9	≤-24.77	PASS
			1000~26500	-4.77	-53.63	≤-24.77	PASS
		2437	Reference	-5.22	-5.22	---	PASS
			30~1000	-5.22	-68.76	≤-25.22	PASS
			1000~26500	-5.22	-53.15	≤-25.22	PASS
		2462	Reference	-4.74	-4.74	---	PASS
			30~1000	-4.74	-69.18	≤-24.74	PASS
			1000~26500	-4.74	-53.54	≤-24.74	PASS



Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

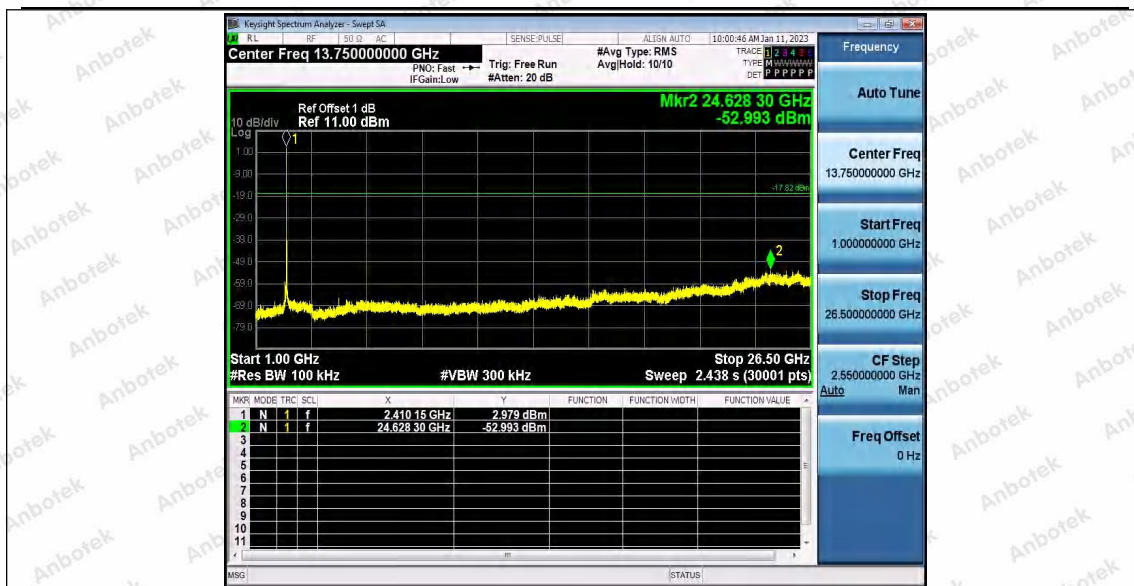
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11B_Ant1_2437_0~Reference

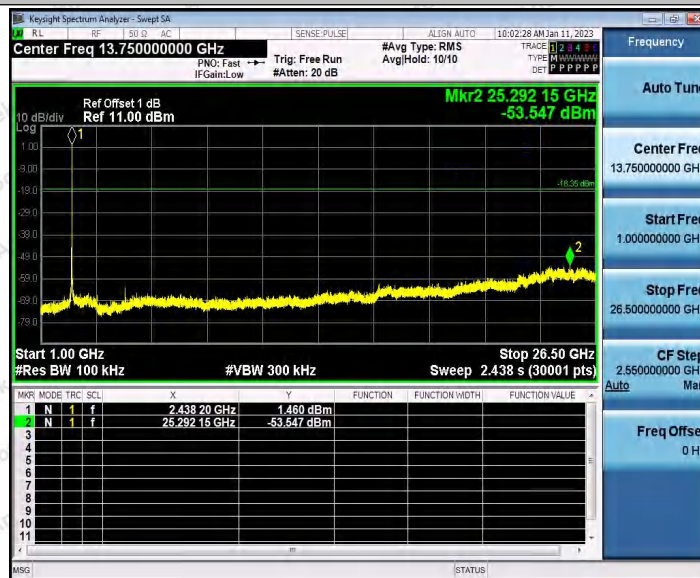


11B_Ant1_2437_30~1000





11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference

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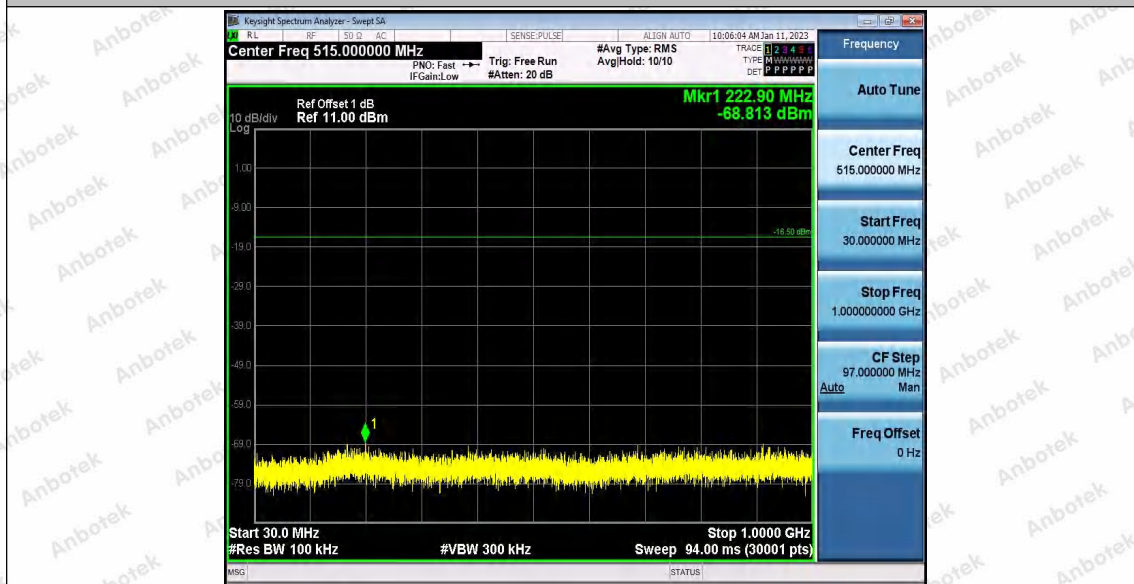


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11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500

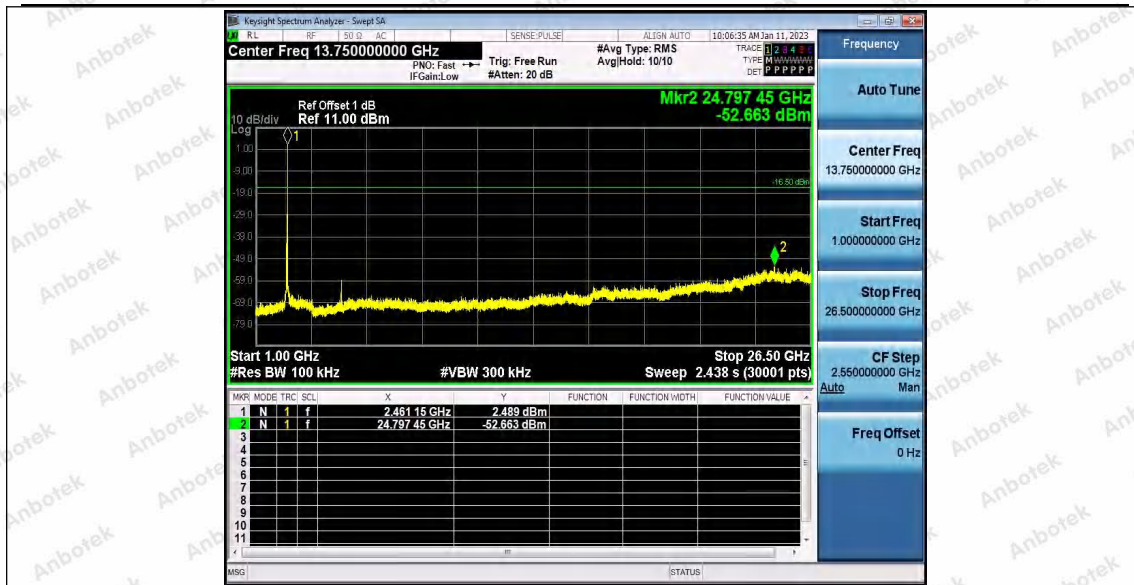
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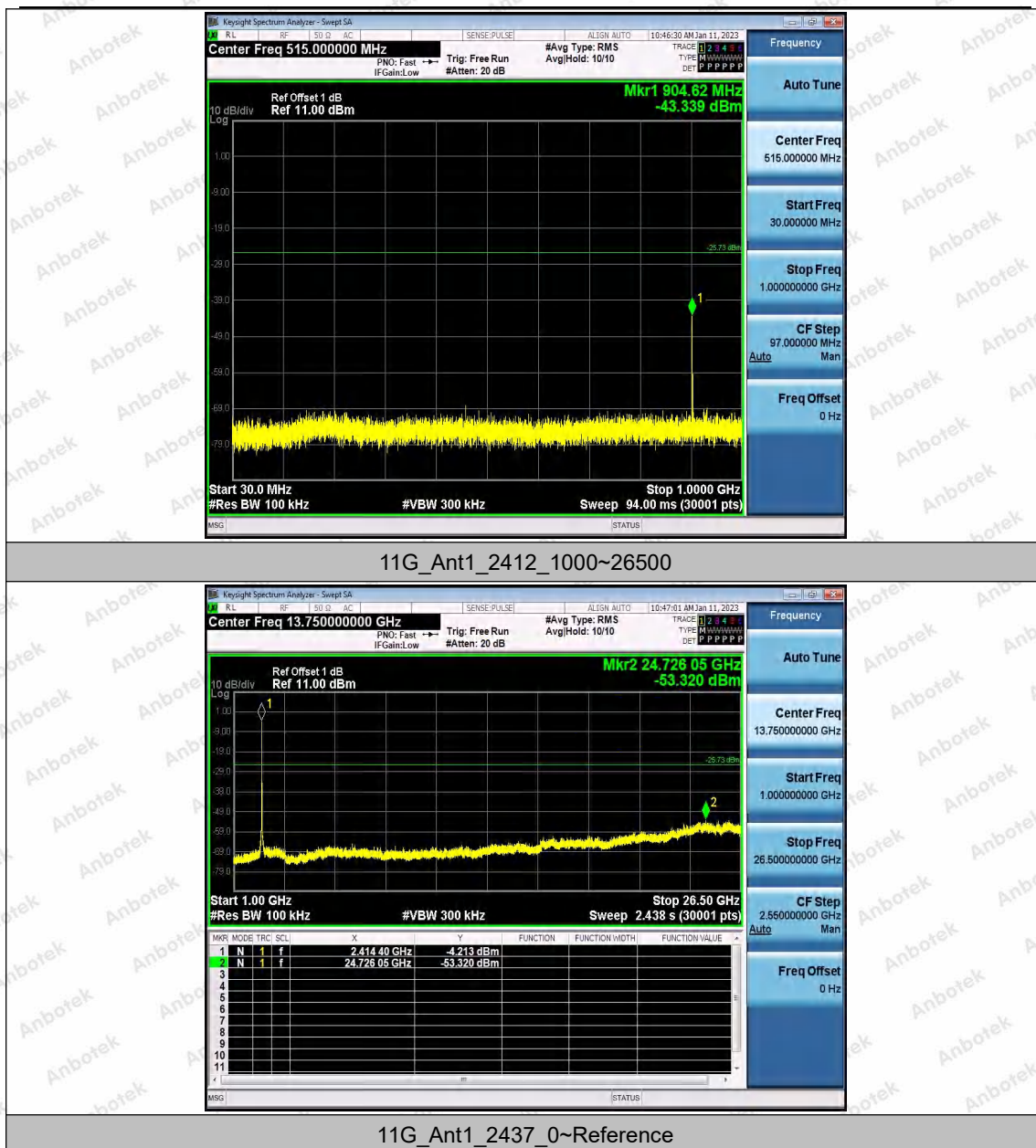


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11G_Ant1_2412_30~1000





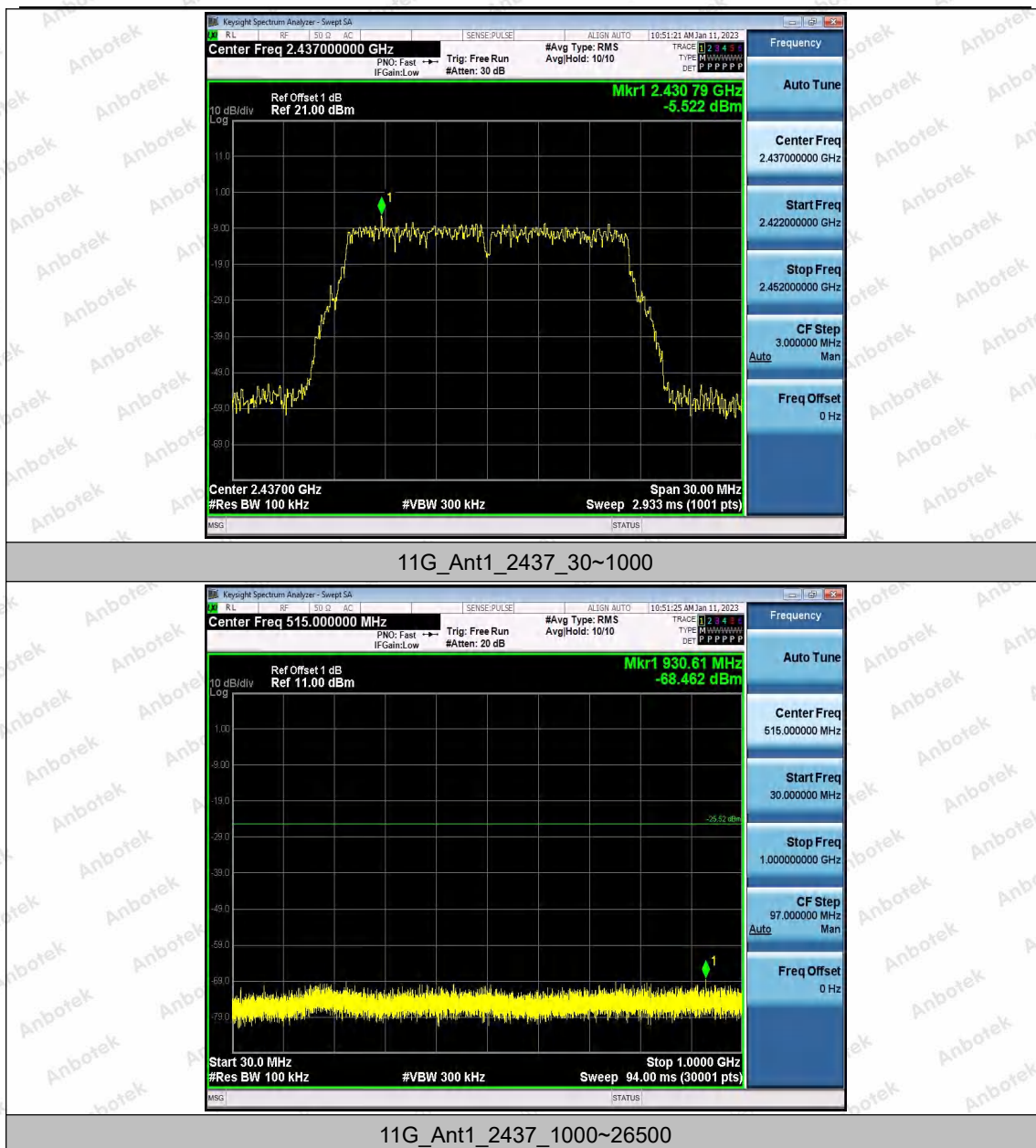
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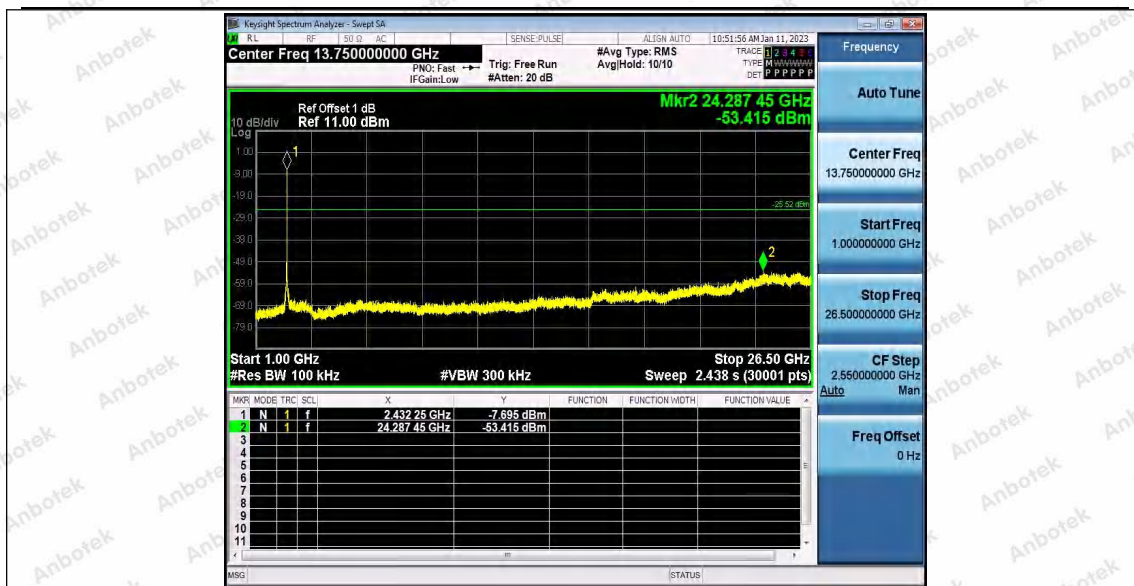
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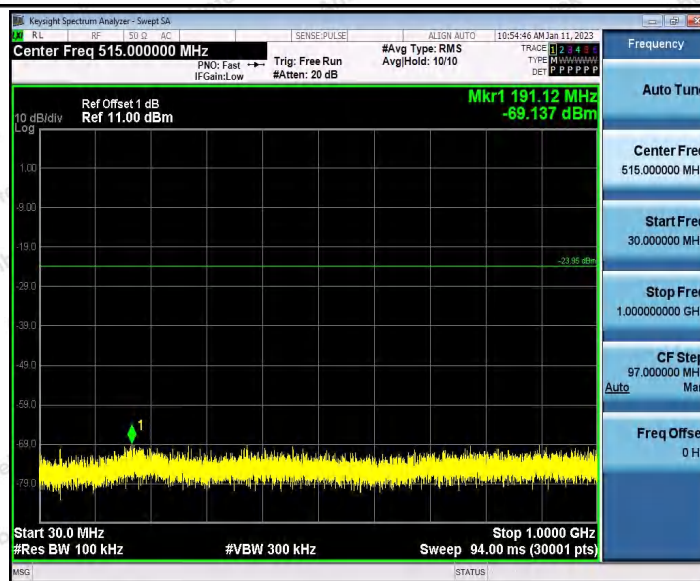


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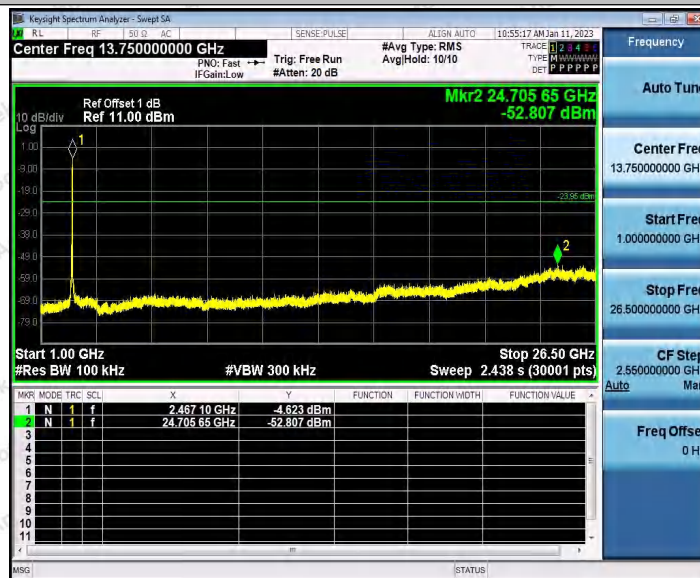


11G_Ant1_2462_30~1000





11G_Ant1_2462_1000~26500



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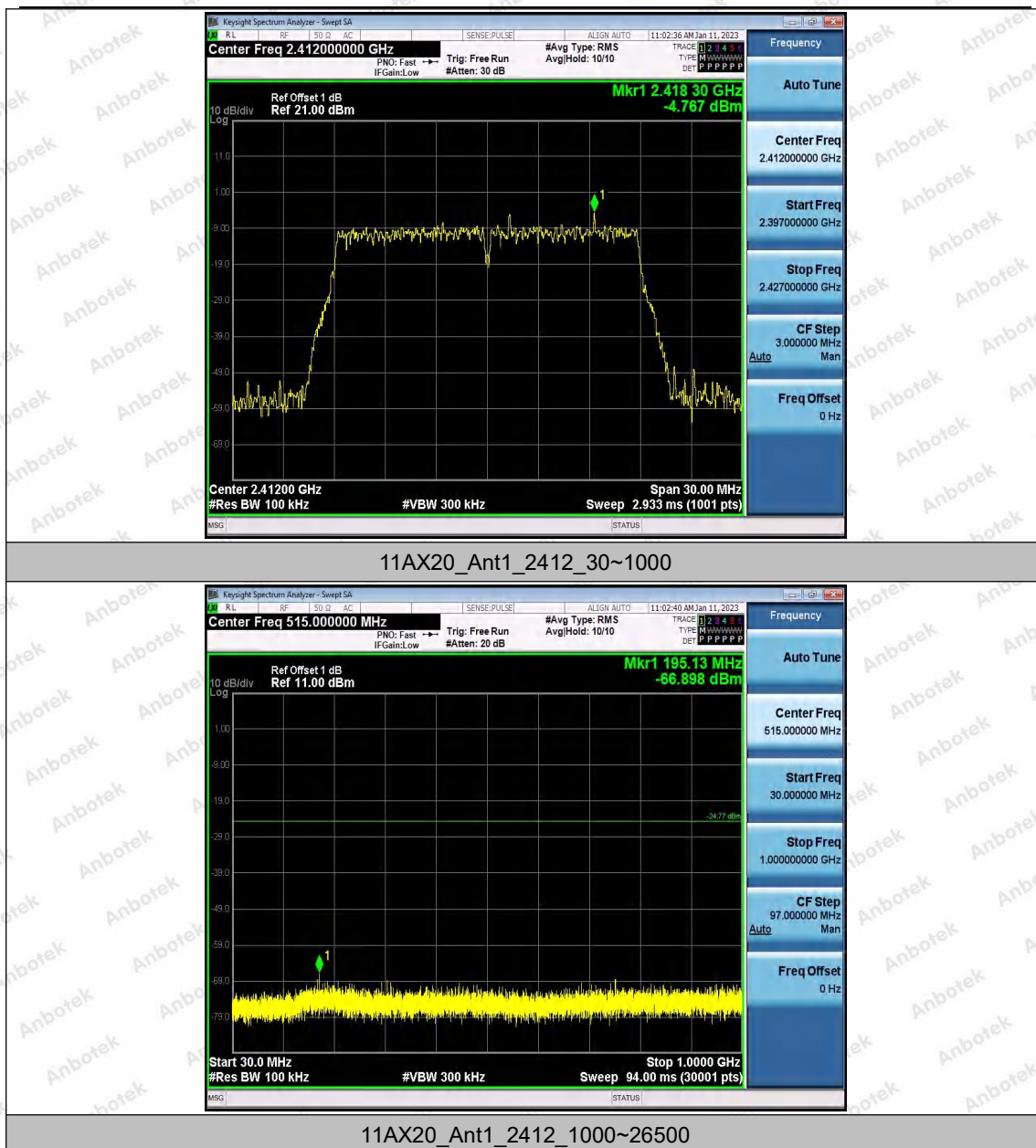
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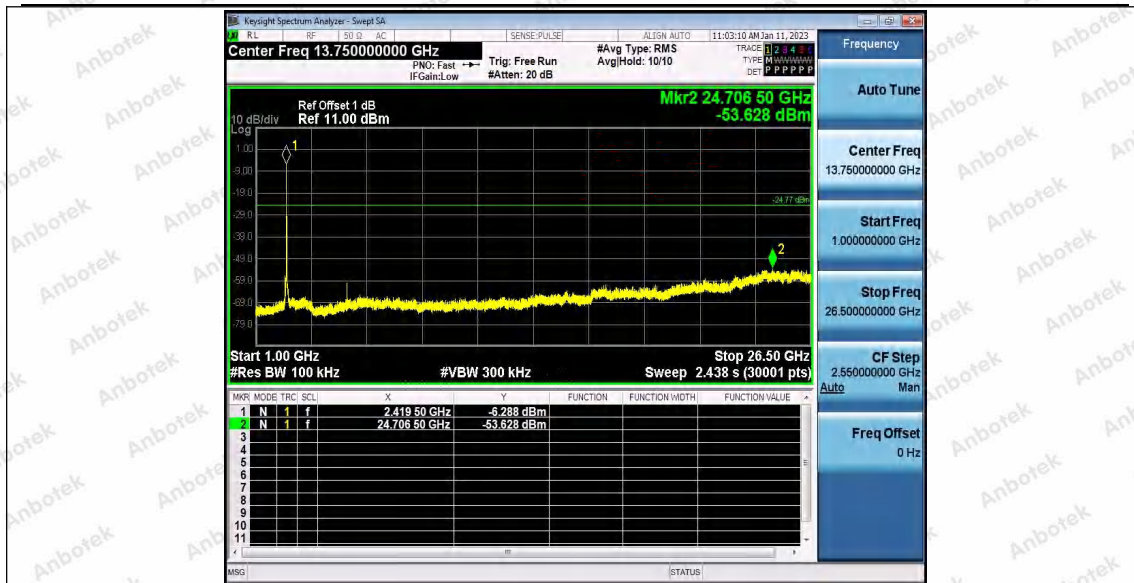
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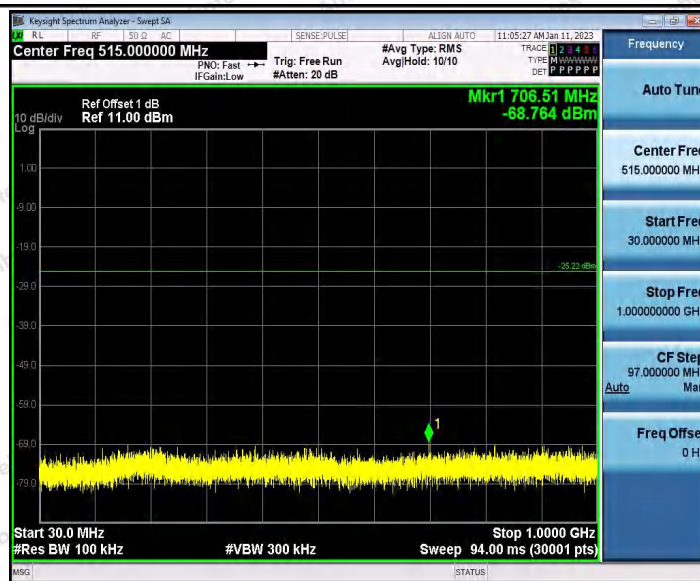


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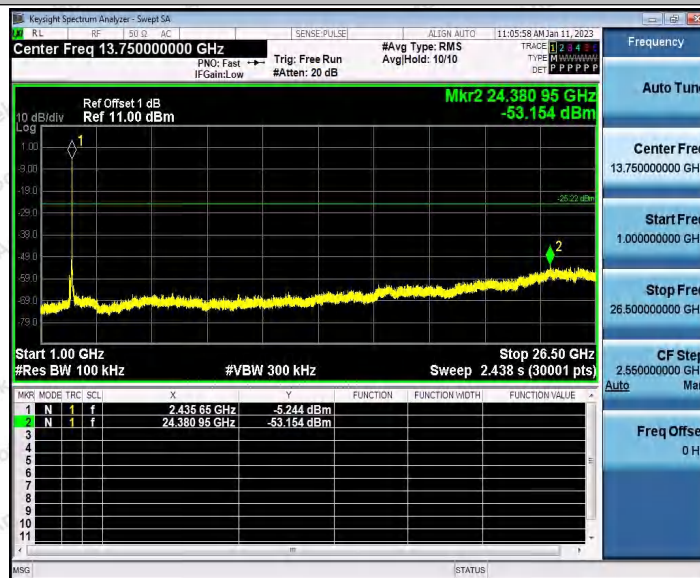


11AX20_Ant1_2437_30~1000





11AX20_Ant1_2437_1000~26500



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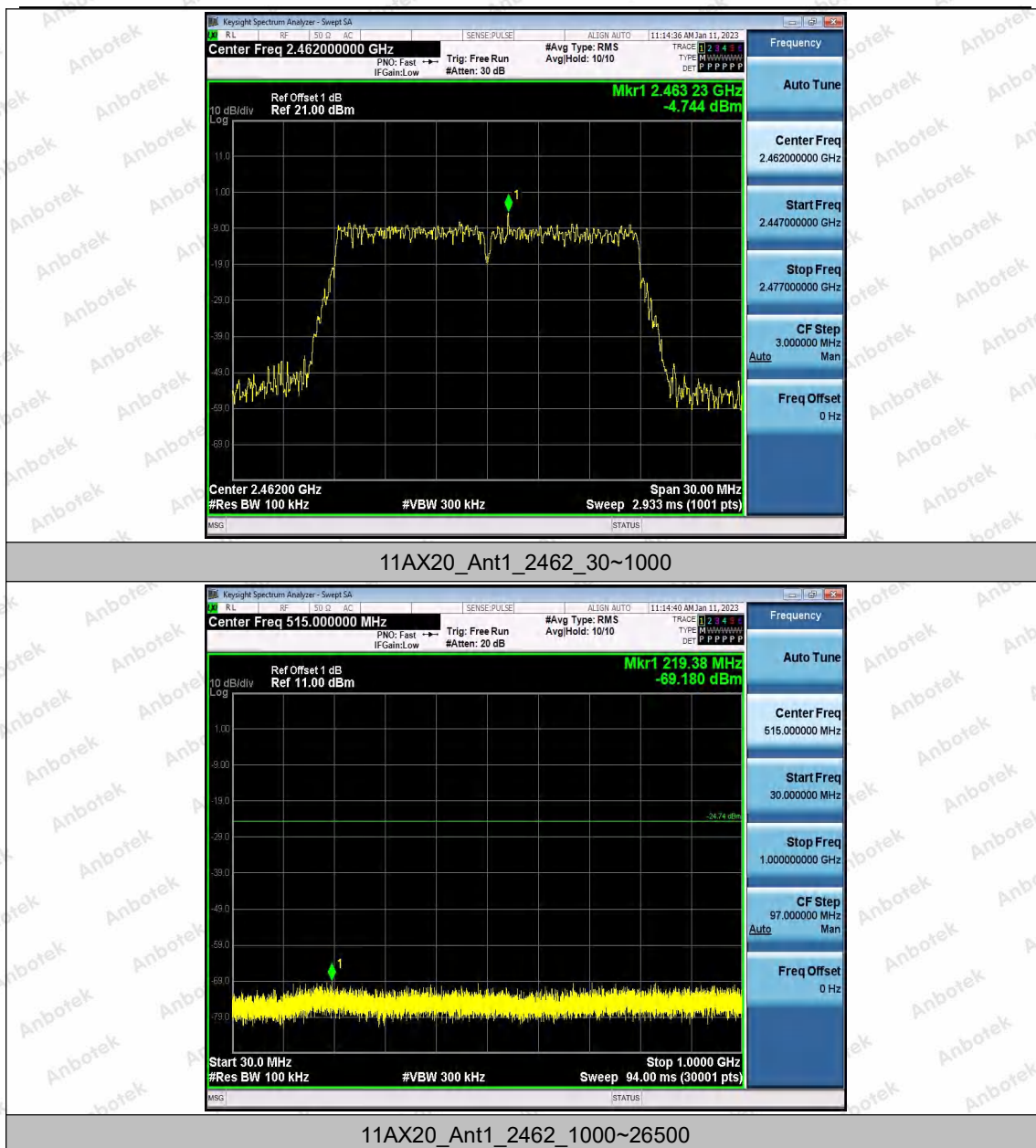
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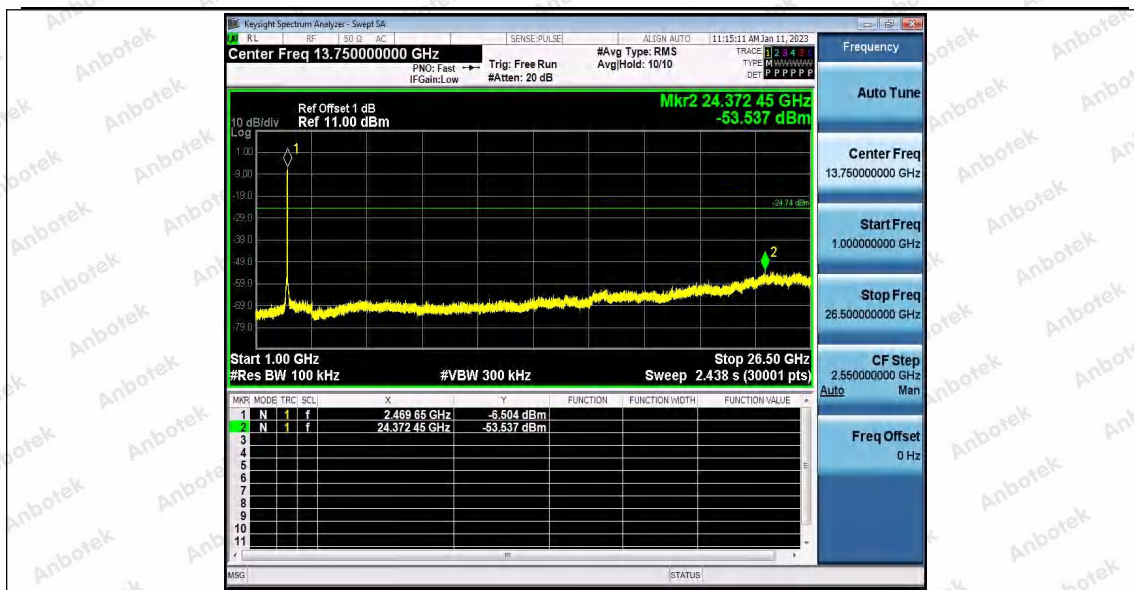
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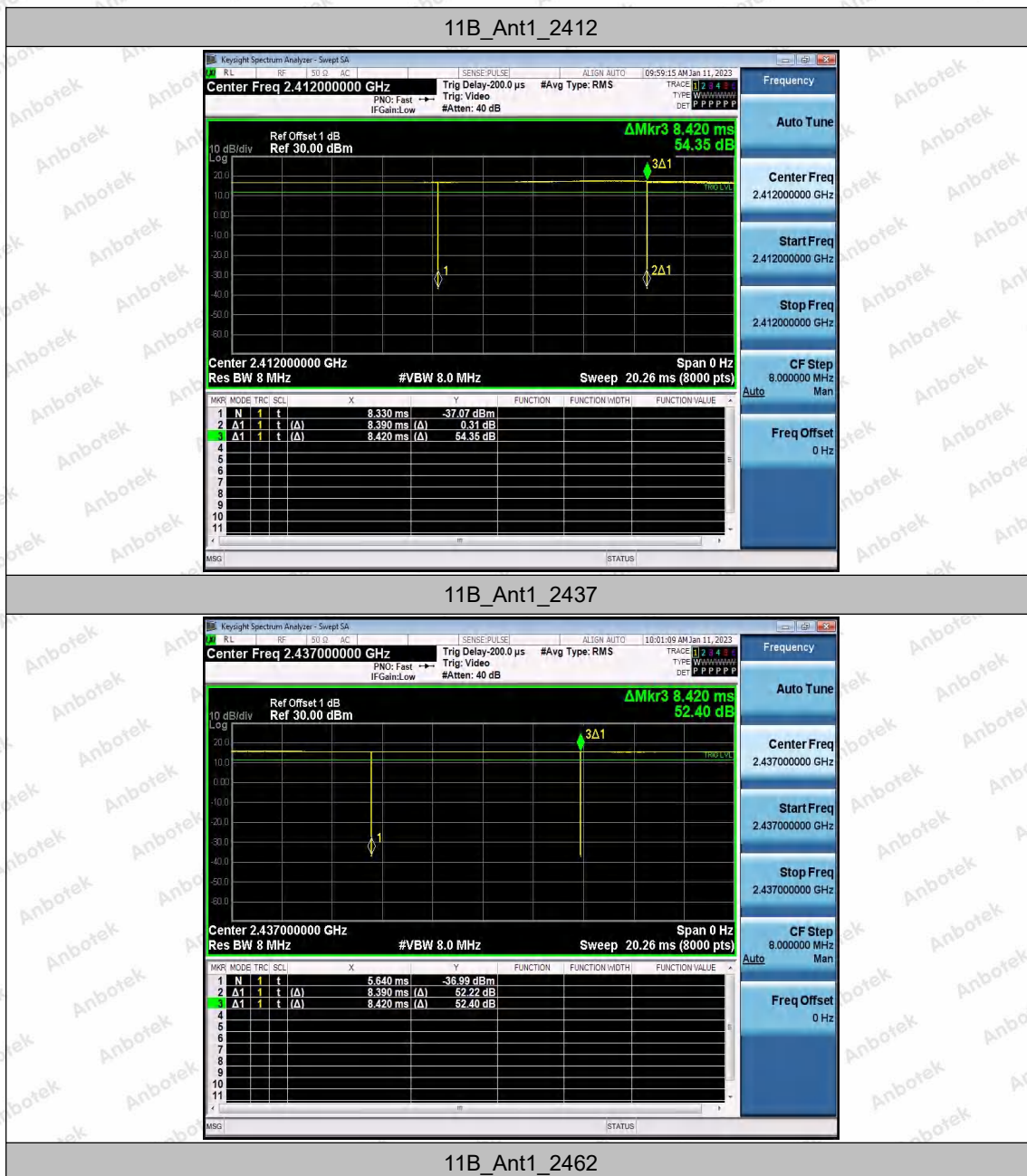
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	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	1.43	97.20	0.12
		2437	1.39	1.43	97.20	0.12
		2462	1.39	1.43	97.20	0.12
11AX20	Ant1	2412	1.30	1.34	97.01	0.13
		2437	1.30	1.34	97.01	0.13
		2462	1.30	1.33	97.74	0.10



Test Graphs



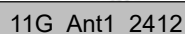
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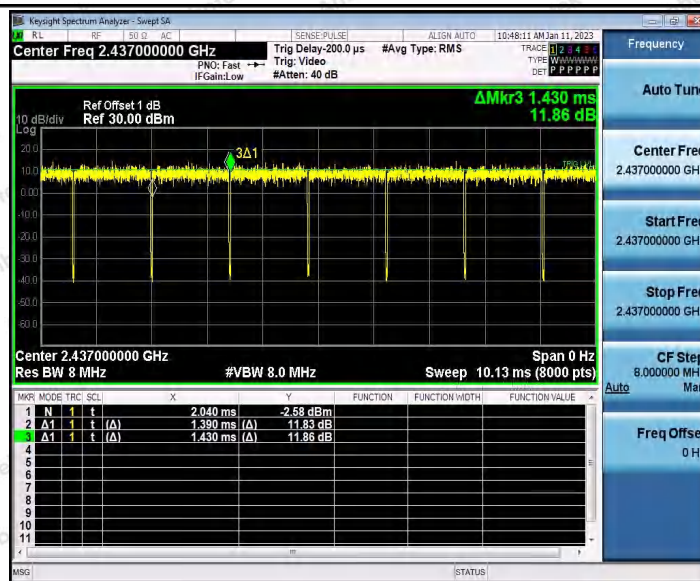
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



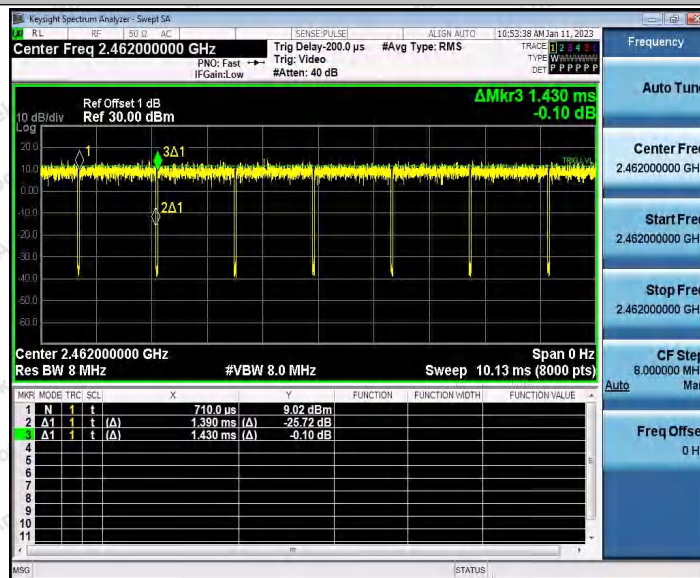
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11G_Ant1_2462



11AX20_Ant1_2412

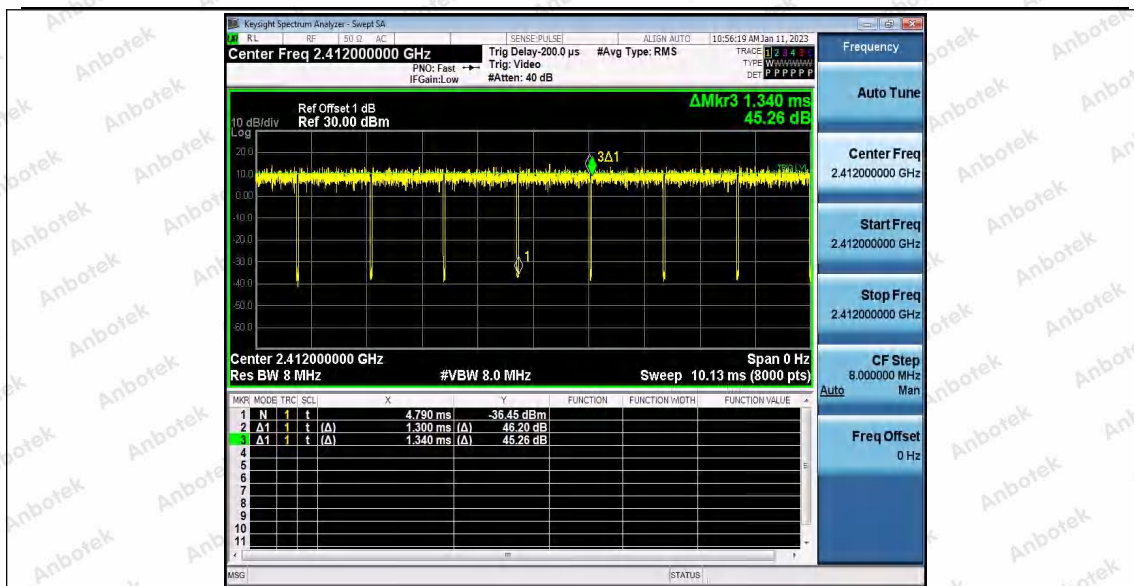
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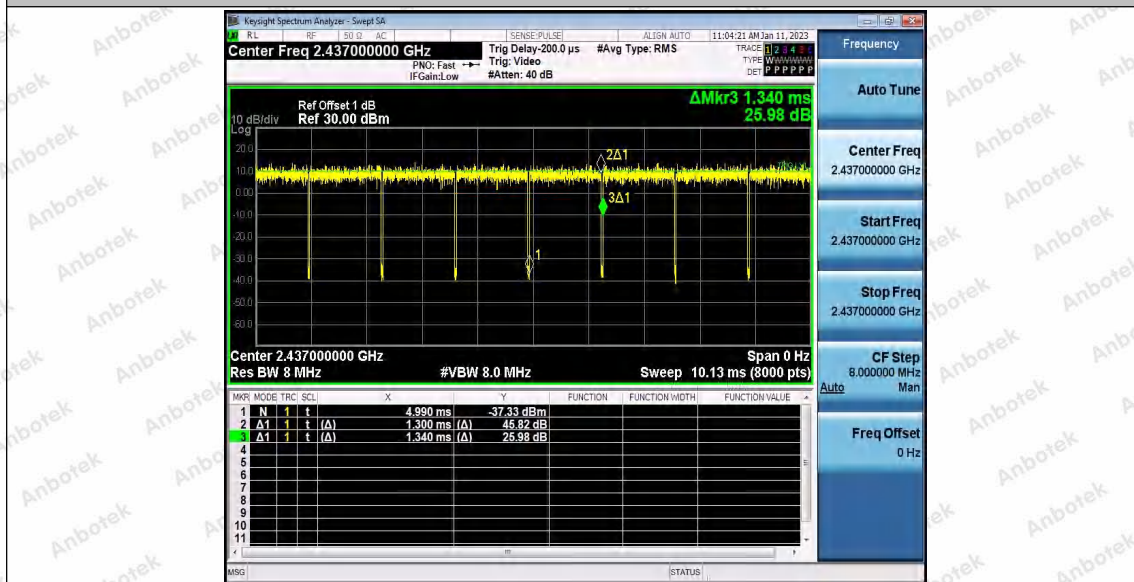


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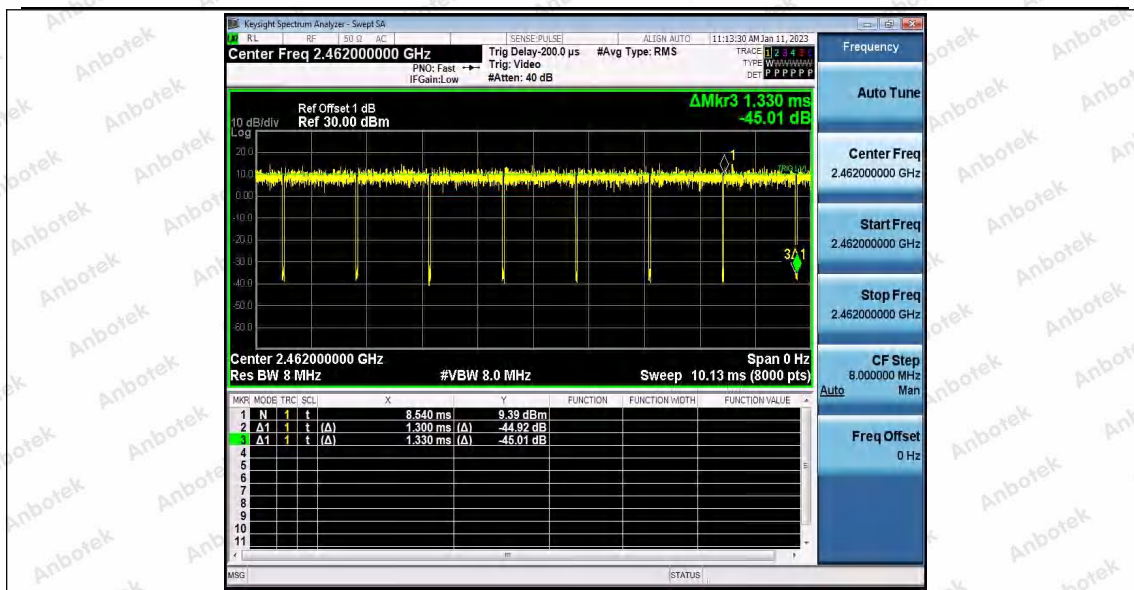


11AX20_Ant1_2437



11AX20_Ant1_2462





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