

Appendix Test Data

Report No.:	18220WC20192303	Test Sample No.:	1-2-2
Start Test Date:	2022.8.19	Finish Test Date:	2022.8.23
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	26.3°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	9.080	2407.480	2416.560	0.5	PASS
		2437	9.040	2432.520	2441.560	0.5	PASS
		2462	9.080	2457.480	2466.560	0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	0.5	PASS
		2437	16.400	2428.800	2445.200	0.5	PASS
		2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.200	2420.800	0.5	PASS
		2437	17.600	2428.200	2445.800	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS
11N40SISO	Ant1	2422	36.080	2404.080	2440.160	0.5	PASS
		2437	35.840	2419.080	2454.920	0.5	PASS
		2452	36.080	2433.840	2469.920	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

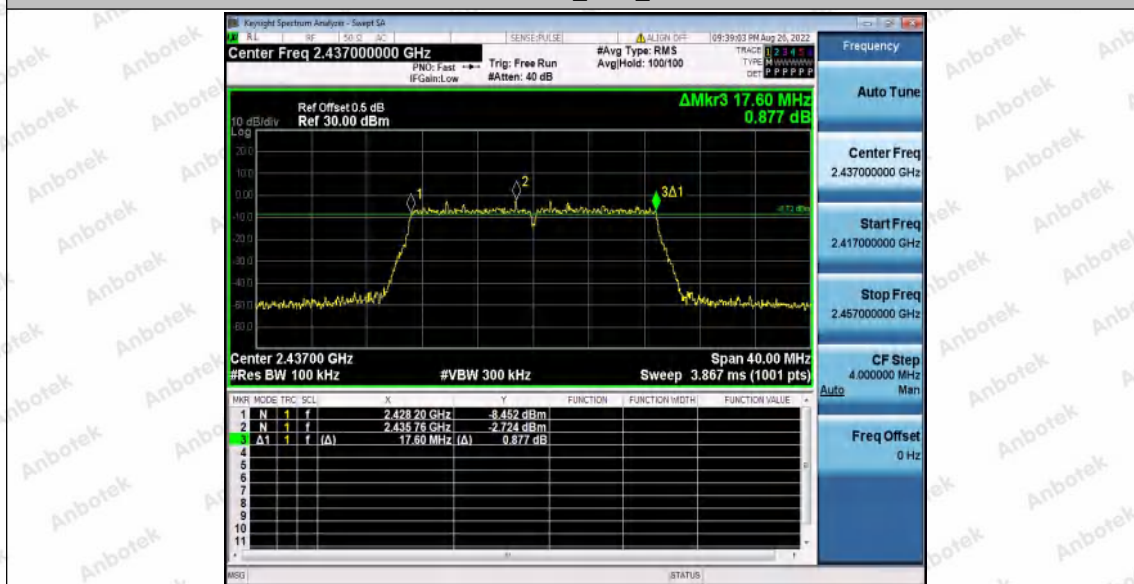


11N20SISO_Ant1_2412





11N20SISO_Ant1_2437

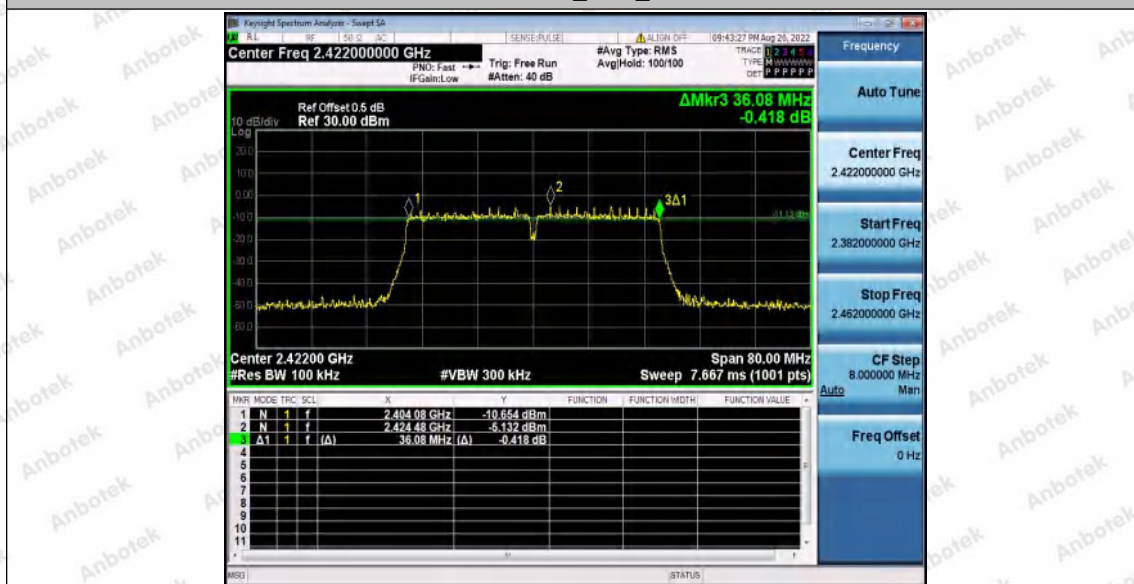


11N20SISO_Ant1_2462



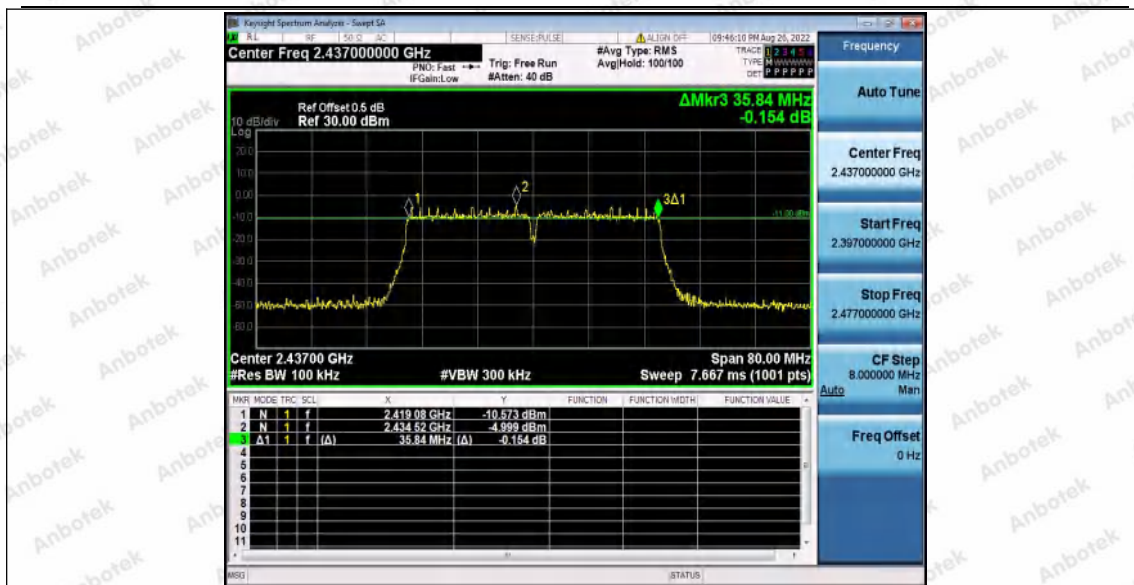


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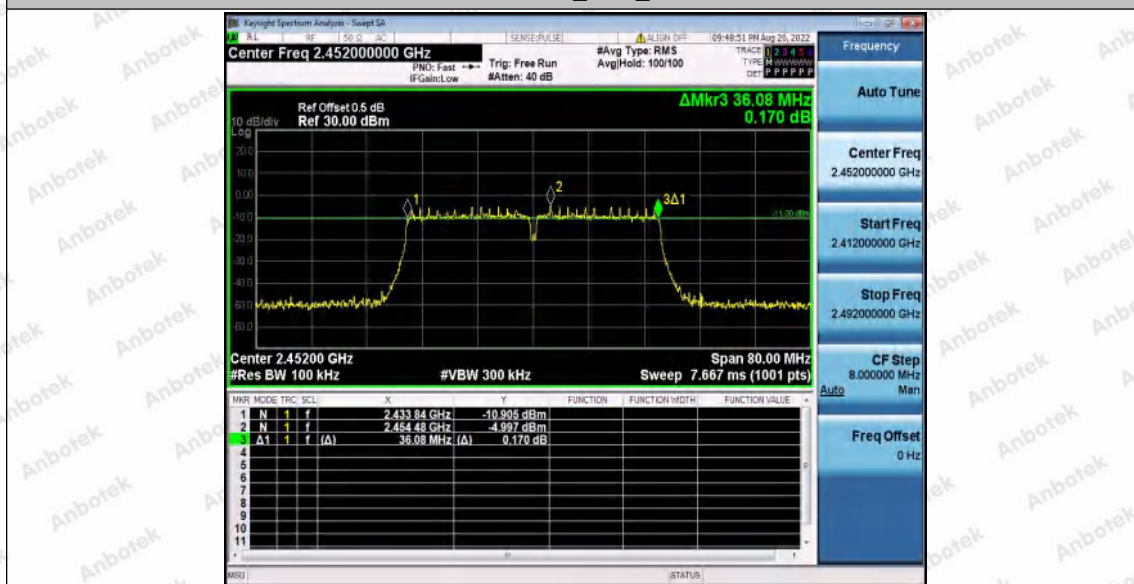


11N40SISO_Ant1_2437





11N40SISO_Ant1_2452



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Appendix B: Occupied Channel Bandwidth

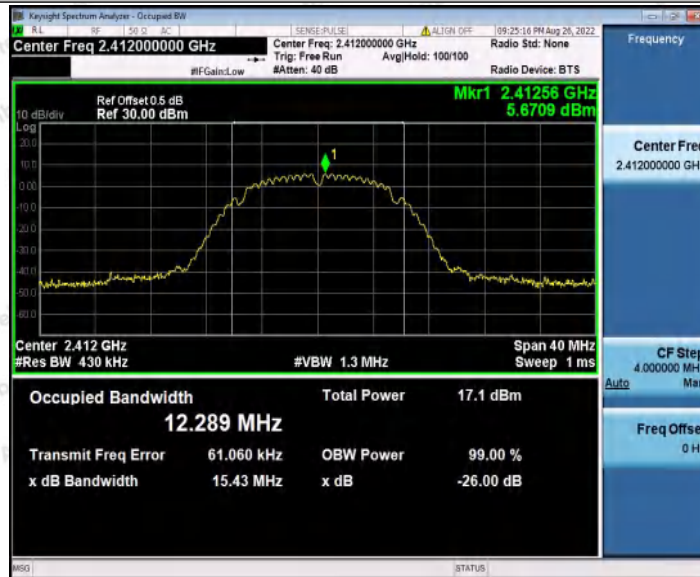
Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.289	2405.9166	2418.2056	---	PASS
		2437	12.290	2430.8997	2443.1897	---	PASS
		2462	12.302	2455.8878	2468.1898	---	PASS
11G	Ant1	2412	17.027	2403.5353	2420.5623	---	PASS
		2437	17.013	2428.4929	2445.5059	---	PASS
		2462	17.114	2453.4568	2470.5708	---	PASS
11N20SISO	Ant1	2412	17.910	2403.1243	2421.0343	---	PASS
		2437	17.920	2428.0646	2445.9846	---	PASS
		2462	17.969	2453.0087	2470.9777	---	PASS
11N40SISO	Ant1	2422	36.304	2403.9426	2440.2466	---	PASS
		2437	36.315	2418.9369	2455.2519	---	PASS
		2452	36.363	2433.8958	2470.2588	---	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

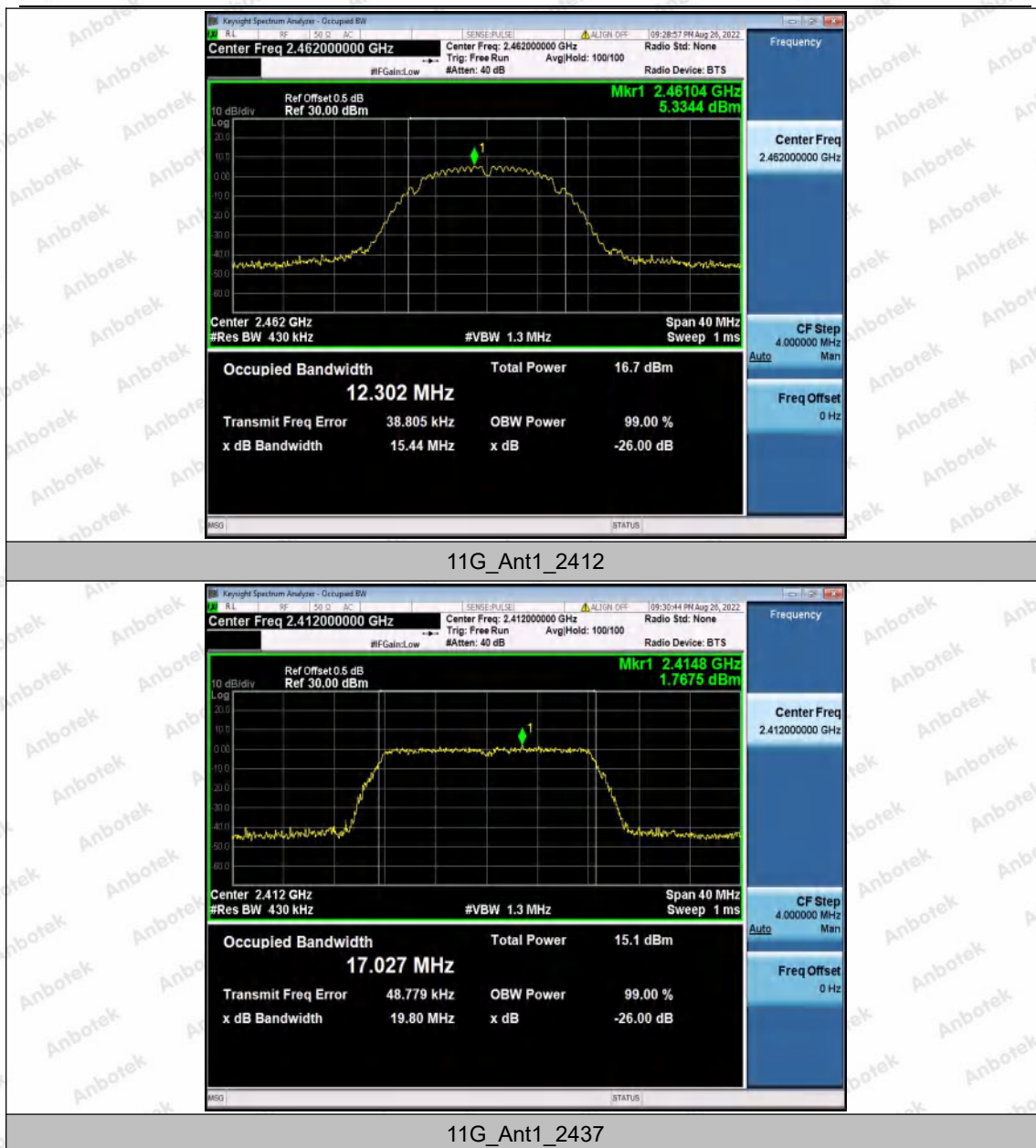
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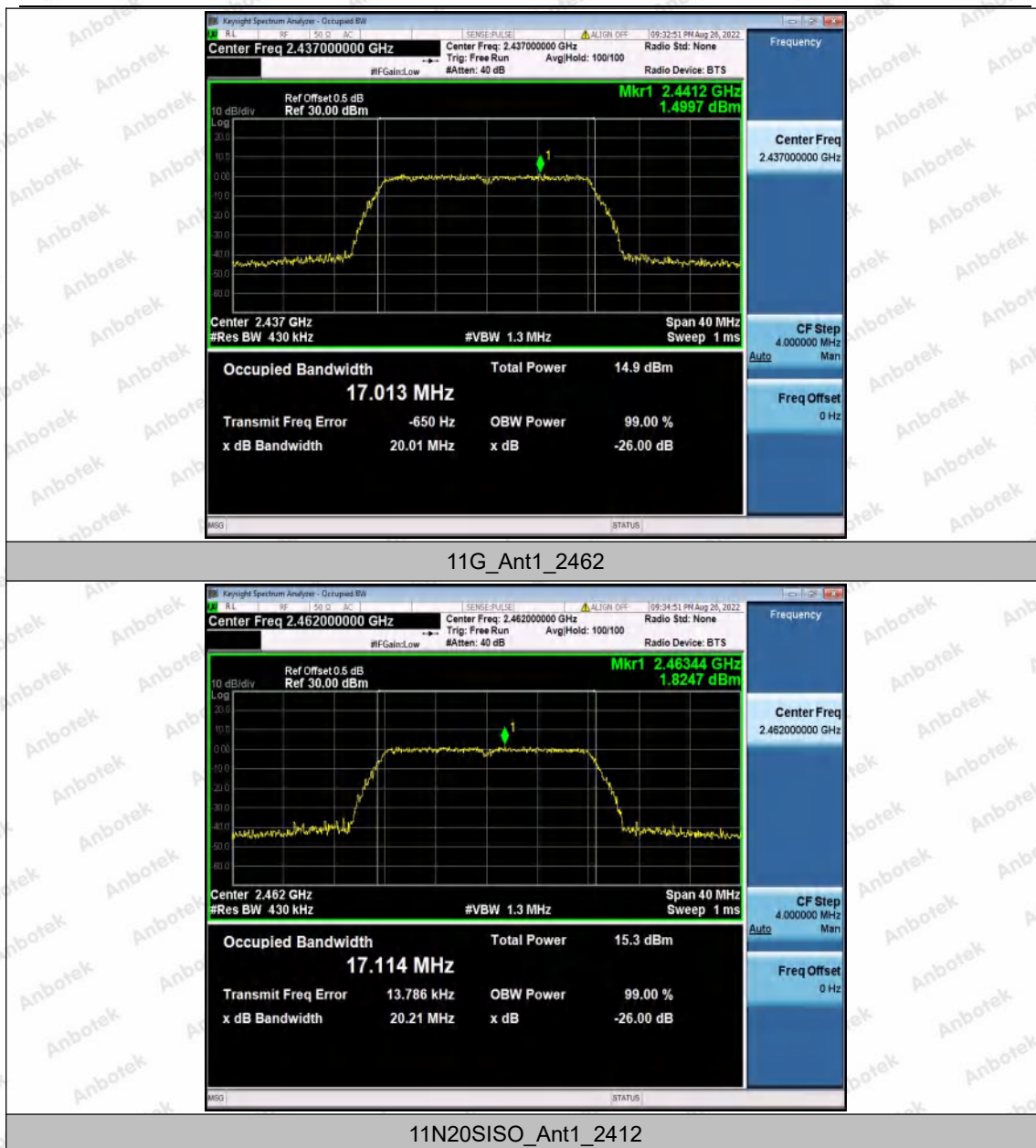
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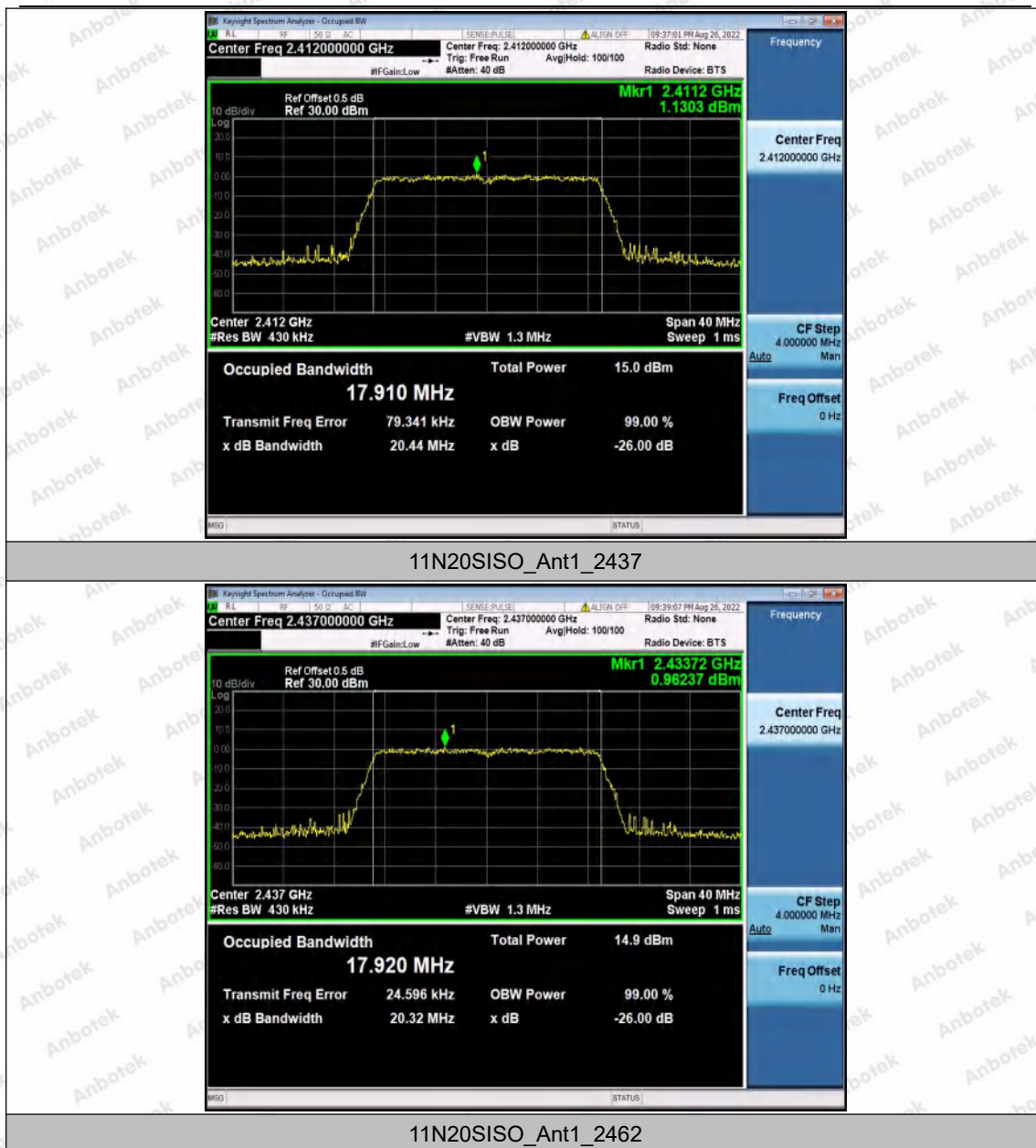
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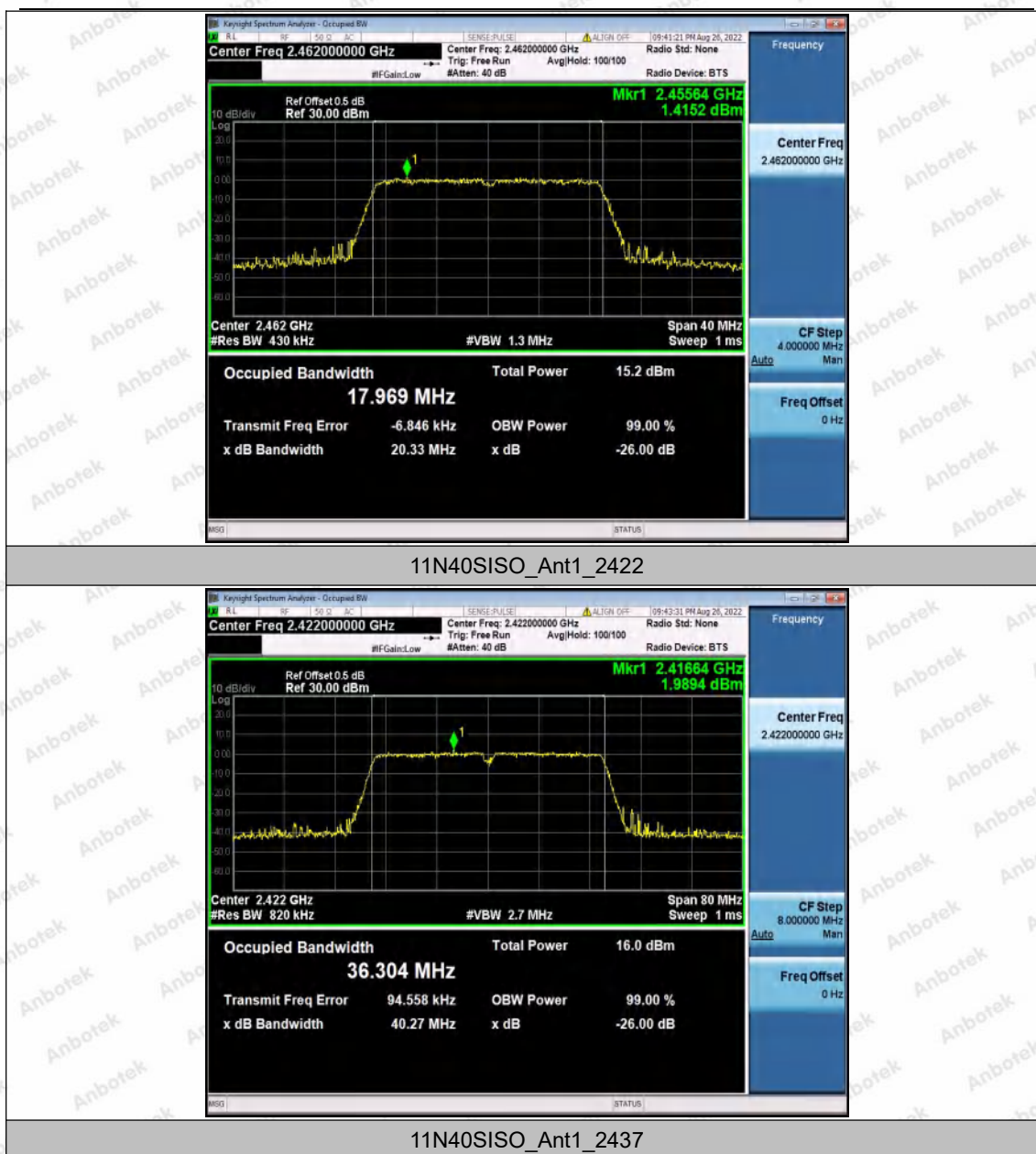
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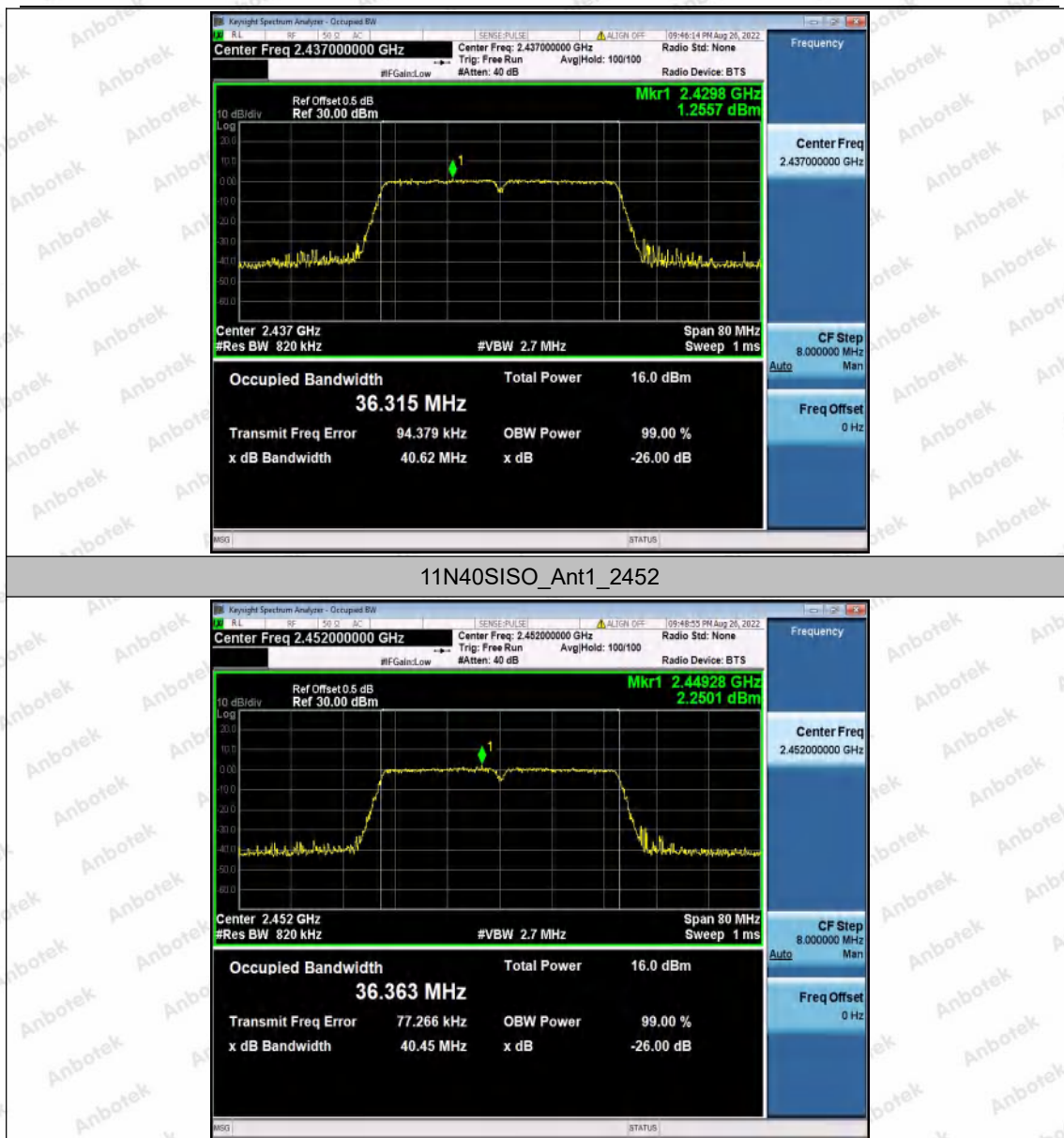
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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequen cy[MHz]	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	---	16.71	≤30.00	PASS
		2437	---	16.29	≤30.00	PASS
		2462	---	16.37	≤30.00	PASS
11G	Ant1	2412	---	16.02	≤30.00	PASS
		2437	---	15.94	≤30.00	PASS
		2462	---	16.23	≤30.00	PASS
11N20SIS O	Ant1	2412	---	16.34	≤30.00	PASS
		2437	---	16.02	≤30.00	PASS
		2462	---	16.31	≤30.00	PASS
11N40SIS O	Ant1	2422	---	16.35	≤30.00	PASS
		2437	---	16.32	≤30.00	PASS
		2452	---	16.27	≤30.00	PASS



Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.55	≤8.00	PASS
		2437	-4.02	≤8.00	PASS
		2462	-7.69	≤8.00	PASS
11G	Ant1	2412	-15.61	≤8.00	PASS
		2437	-16.51	≤8.00	PASS
		2462	-16.07	≤8.00	PASS
11N20SISO	Ant1	2412	-16.78	≤8.00	PASS
		2437	-16.4	≤8.00	PASS
		2462	-16.64	≤8.00	PASS
11N40SISO	Ant1	2422	-18.66	≤8.00	PASS
		2437	-19.04	≤8.00	PASS
		2452	-19.13	≤8.00	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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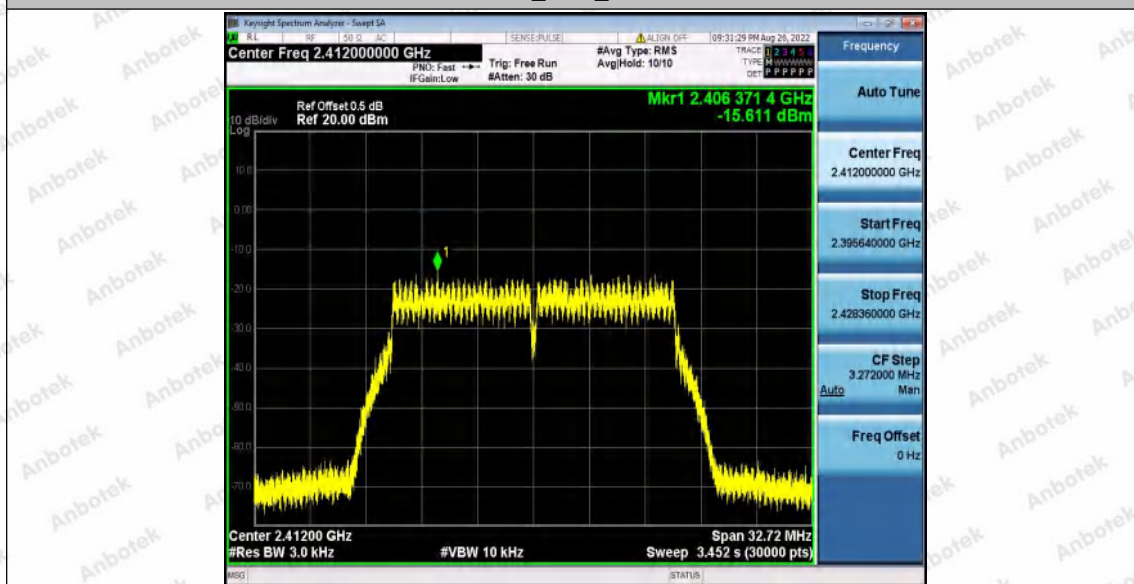


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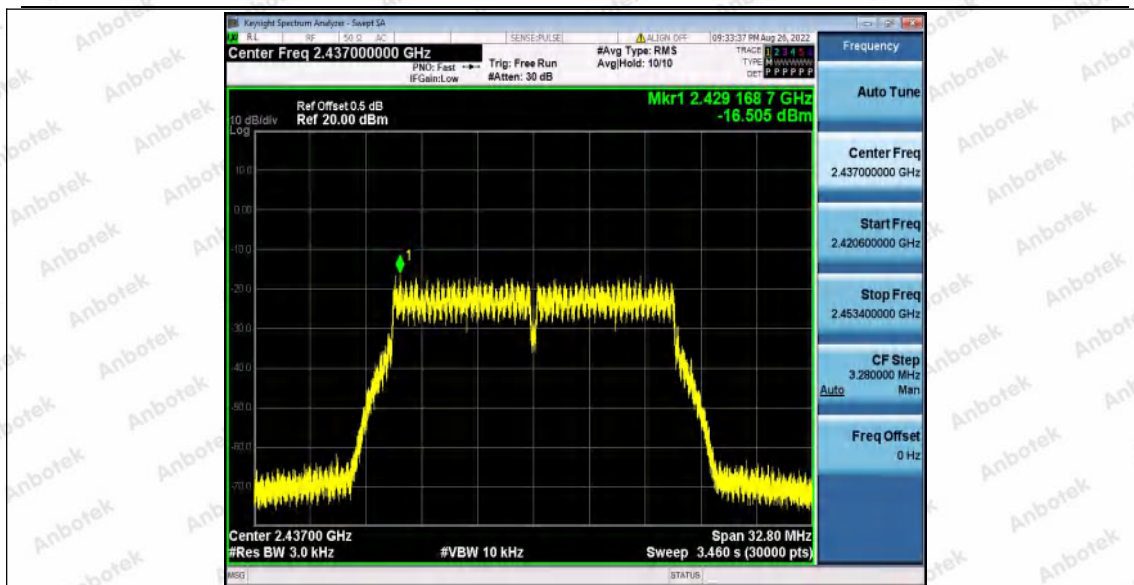


11G_Ant1_2412

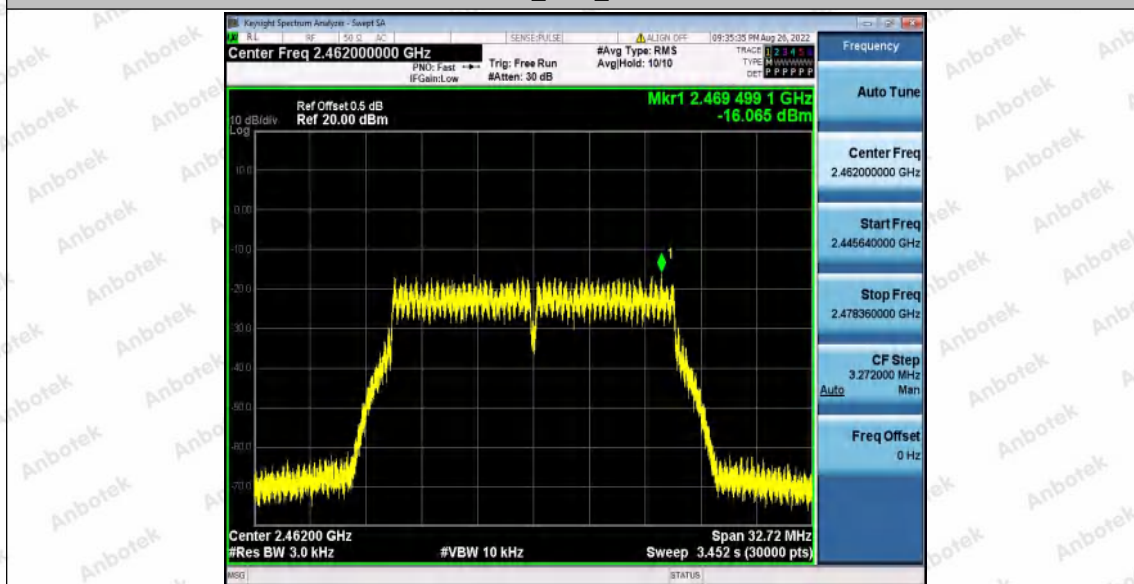


11G_Ant1_2437



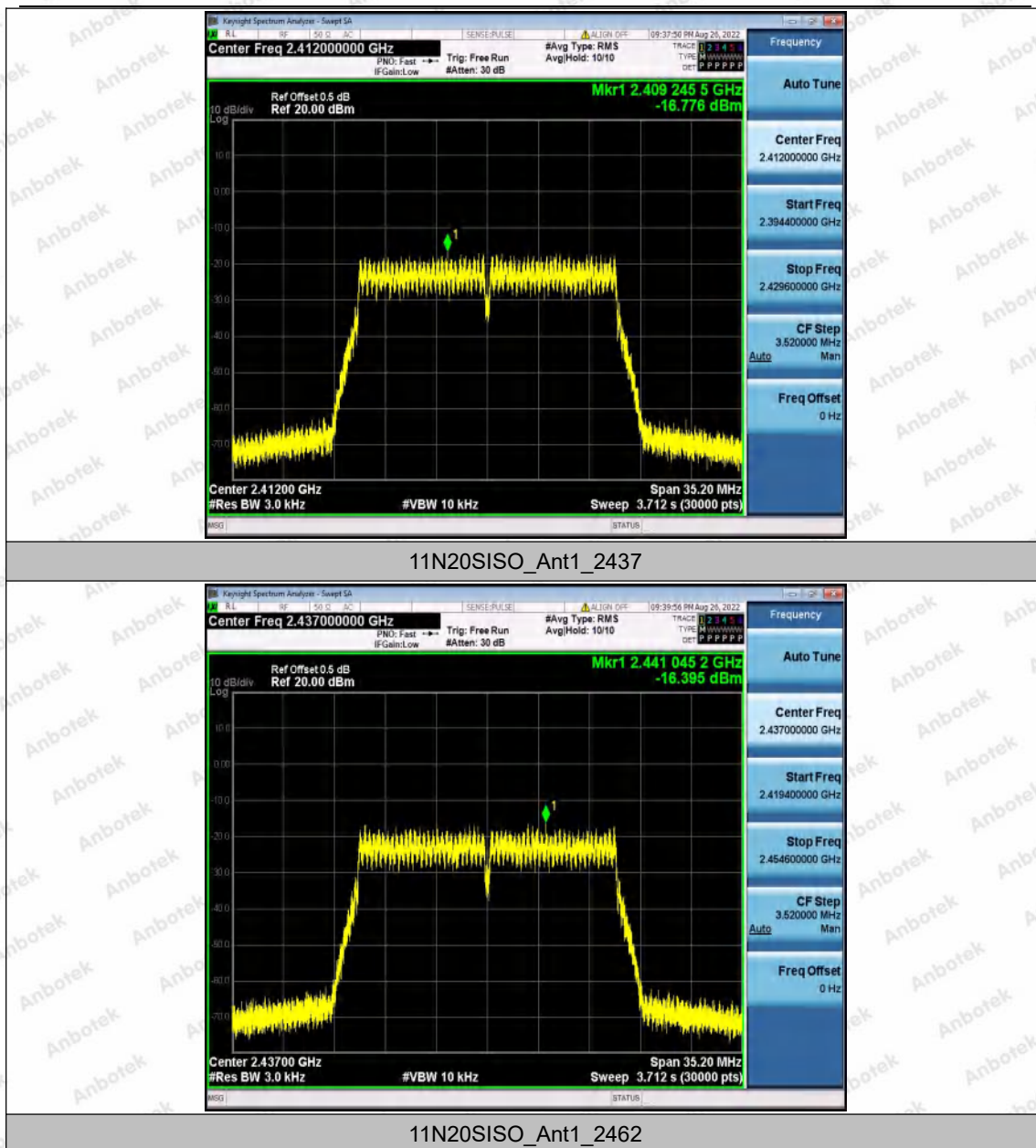


11G_Ant1_2462



11N20SISO_Ant1_2412





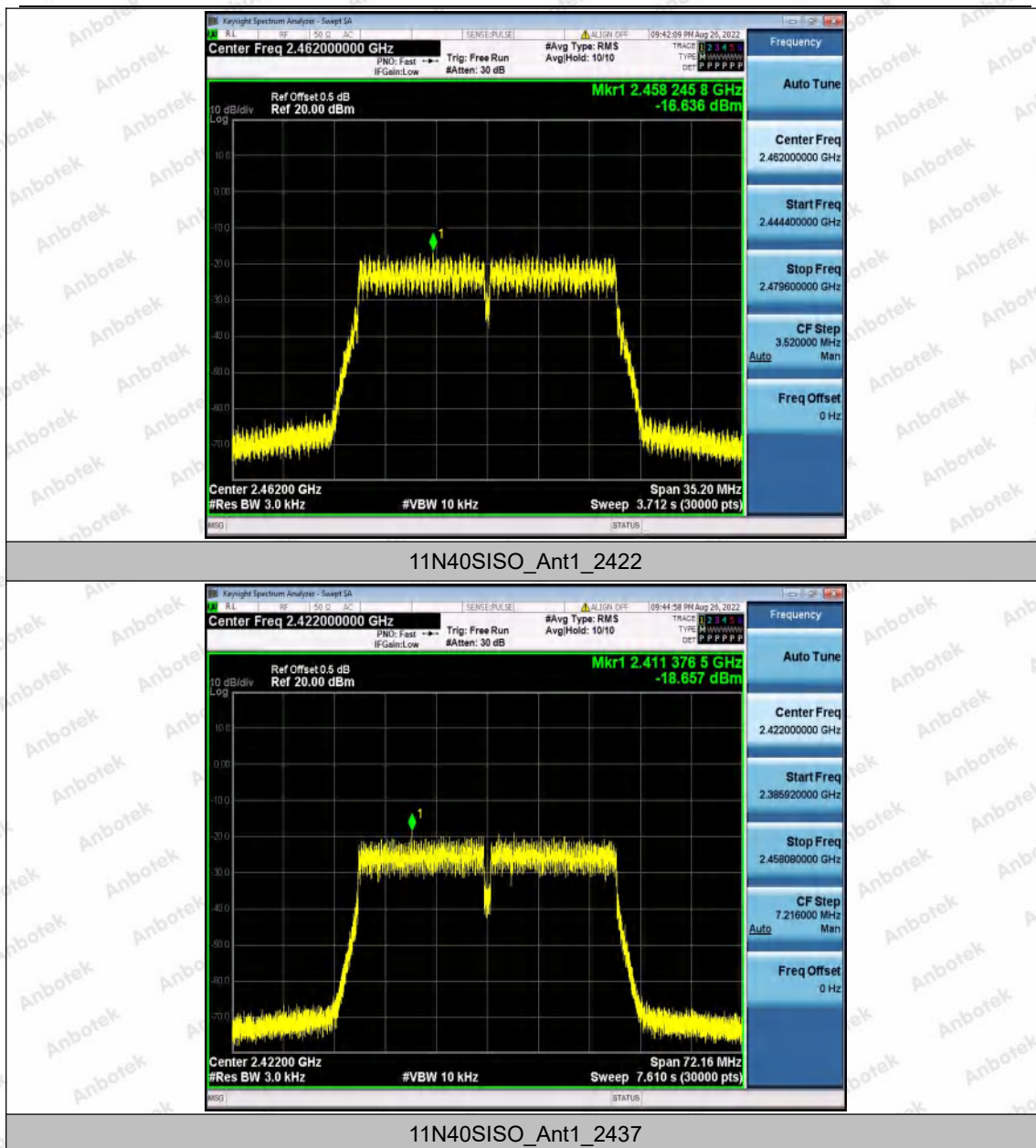
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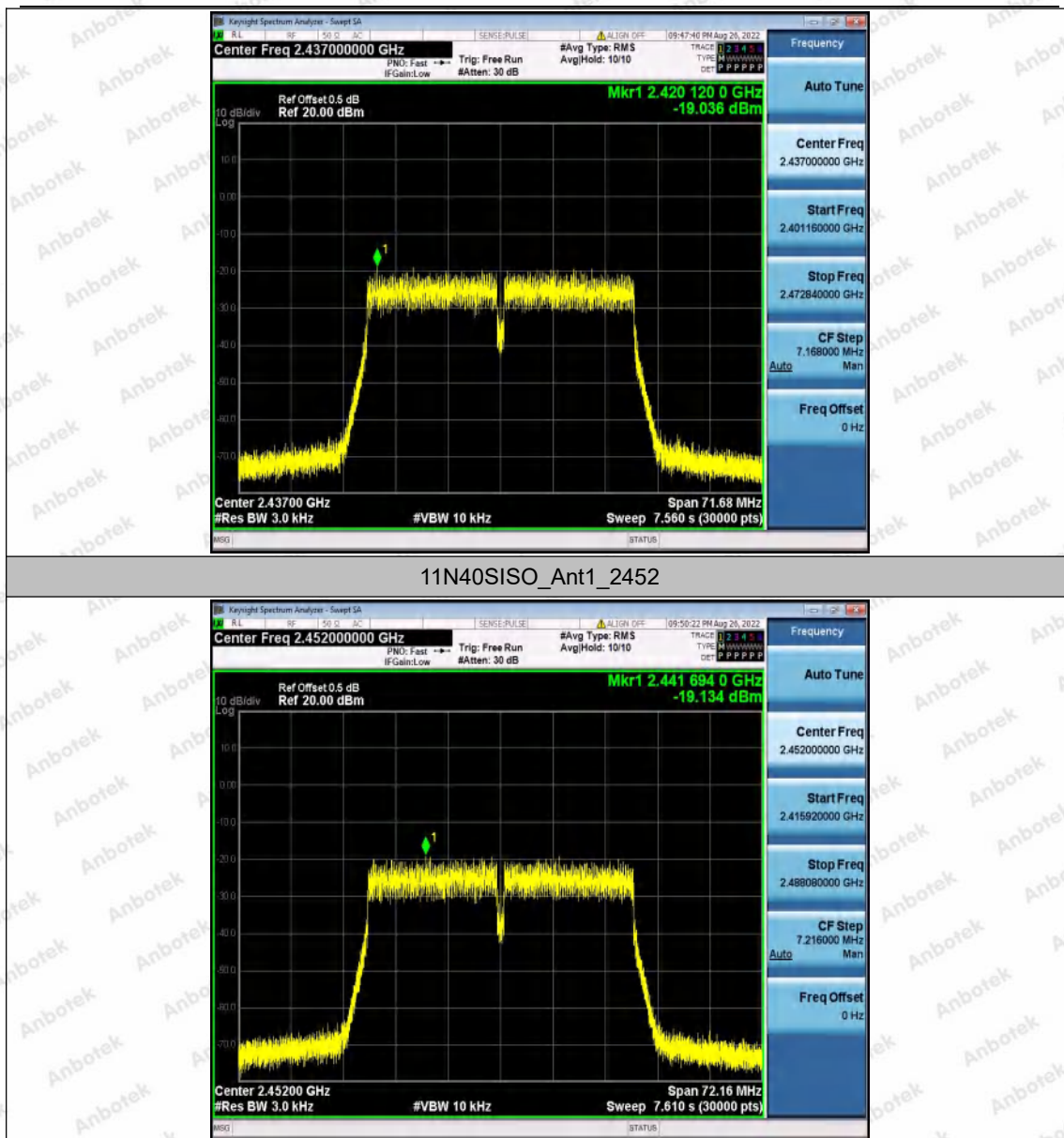
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Appendix E: Band edge measurements

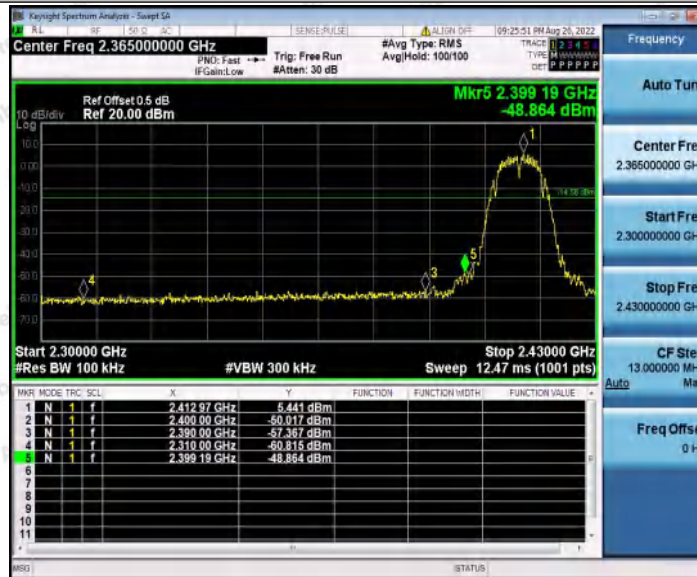
Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.44	-48.86	≤-14.56	PASS
		High	2462	5.36	-55.35	≤-14.64	PASS
11G	Ant1	Low	2412	-1.96	-48.36	≤-21.96	PASS
		High	2462	-2.39	-53.78	≤-22.39	PASS
11N20SISO	Ant1	Low	2412	-2.43	-46	≤-22.43	PASS
		High	2462	-2.23	-52.65	≤-22.23	PASS
11N40SISO	Ant1	Low	2422	-5.20	-47.07	≤-25.2	PASS
		High	2452	-5.05	-51.43	≤-25.05	PASS

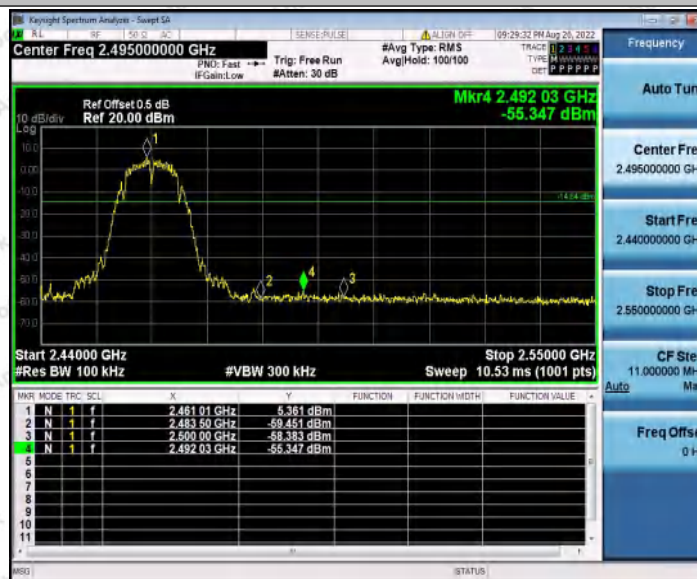


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

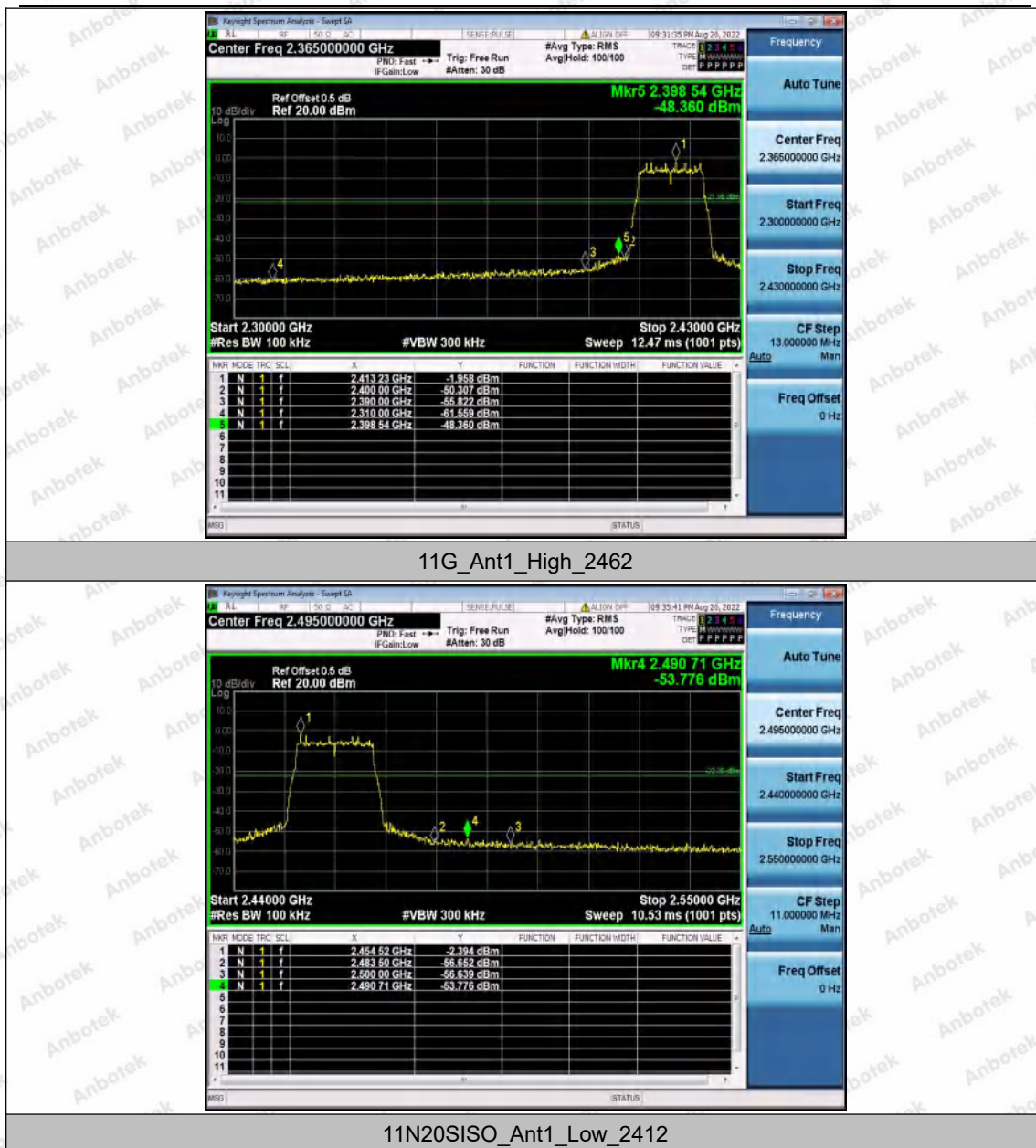
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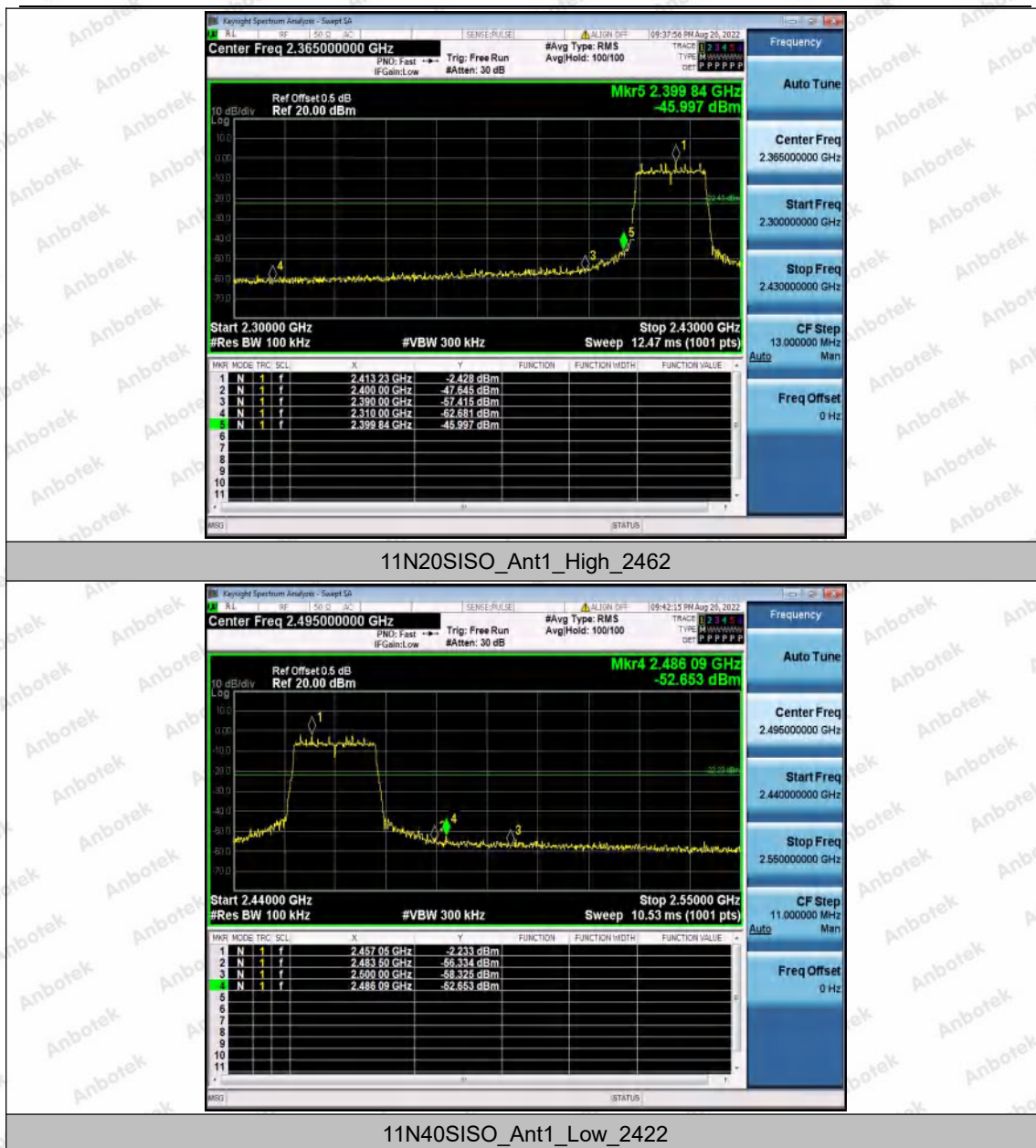
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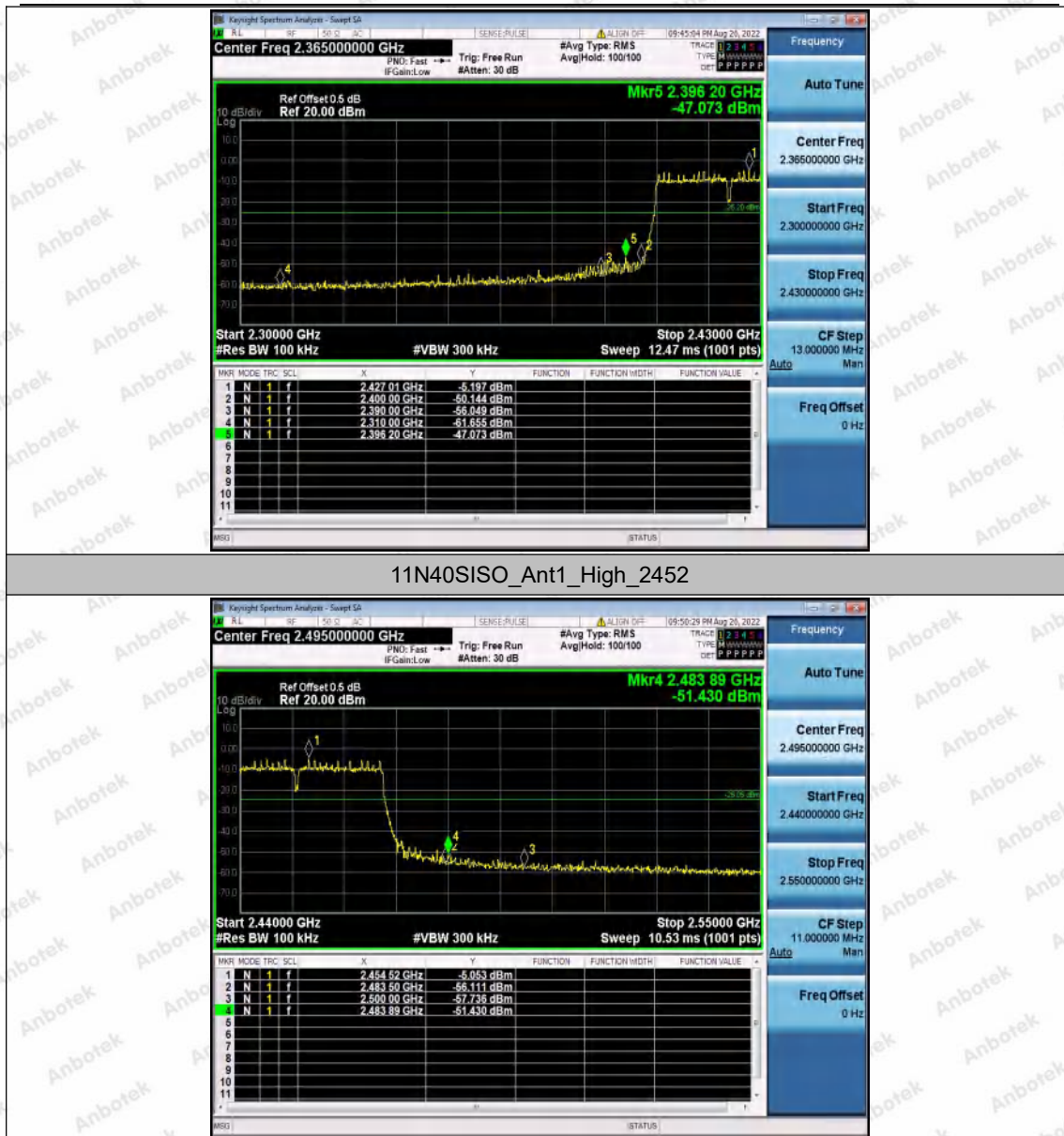
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.54	3.54	---	PASS
			30~1000	3.54	-69.6	≤-26.46	PASS
			1000~26500	3.54	-53.83	≤-26.46	PASS
		2437	Reference	4.49	4.49	---	PASS
			30~1000	4.49	-69.77	≤-25.51	PASS
			1000~26500	4.49	-53.75	≤-25.51	PASS
		2462	Reference	4.22	4.22	---	PASS
			30~1000	4.22	-70.14	≤-25.78	PASS
			1000~26500	4.22	-53.86	≤-25.78	PASS
11G	Ant1	2412	Reference	-5.34	-5.34	---	PASS
			30~1000	-5.34	-69.91	≤-35.34	PASS
			1000~26500	-5.34	-54.04	≤-35.34	PASS
		2437	Reference	-2.84	-2.84	---	PASS
			30~1000	-2.84	-68.54	≤-32.84	PASS
			1000~26500	-2.84	-53.51	≤-32.84	PASS
		2462	Reference	-5.60	-5.60	---	PASS
			30~1000	-5.60	-69.7	≤-35.6	PASS
			1000~26500	-5.60	-53.21	≤-35.6	PASS
11N20SISO	Ant1	2412	Reference	-2.95	-2.95	---	PASS
			30~1000	-2.95	-69.78	≤-32.95	PASS
			1000~26500	-2.95	-54.58	≤-32.95	PASS
		2437	Reference	-3.50	-3.50	---	PASS
			30~1000	-3.50	-69.81	≤-33.5	PASS
			1000~26500	-3.50	-54.54	≤-33.5	PASS
		2462	Reference	-2.27	-2.27	---	PASS
			30~1000	-2.27	-69.55	≤-32.27	PASS
			1000~26500	-2.27	-54.07	≤-32.27	PASS
11N40SISO	Ant1	2422	Reference	-5.77	-5.77	---	PASS
			30~1000	-5.77	-69.62	≤-35.77	PASS
			1000~26500	-5.77	-53.6	≤-35.77	PASS
		2437	Reference	-5.34	-5.34	---	PASS
			30~1000	-5.34	-69.15	≤-35.34	PASS
			1000~26500	-5.34	-54.04	≤-35.34	PASS
		2452	Reference	-6.11	-6.11	---	PASS
			30~1000	-6.11	-69.72	≤-36.11	PASS



			1000~26500	-6.11	-54.22	≤-36.11	PASS
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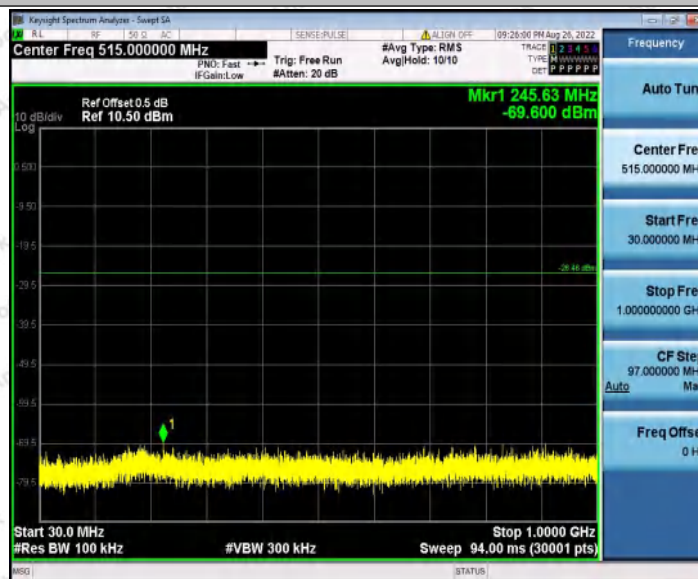


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

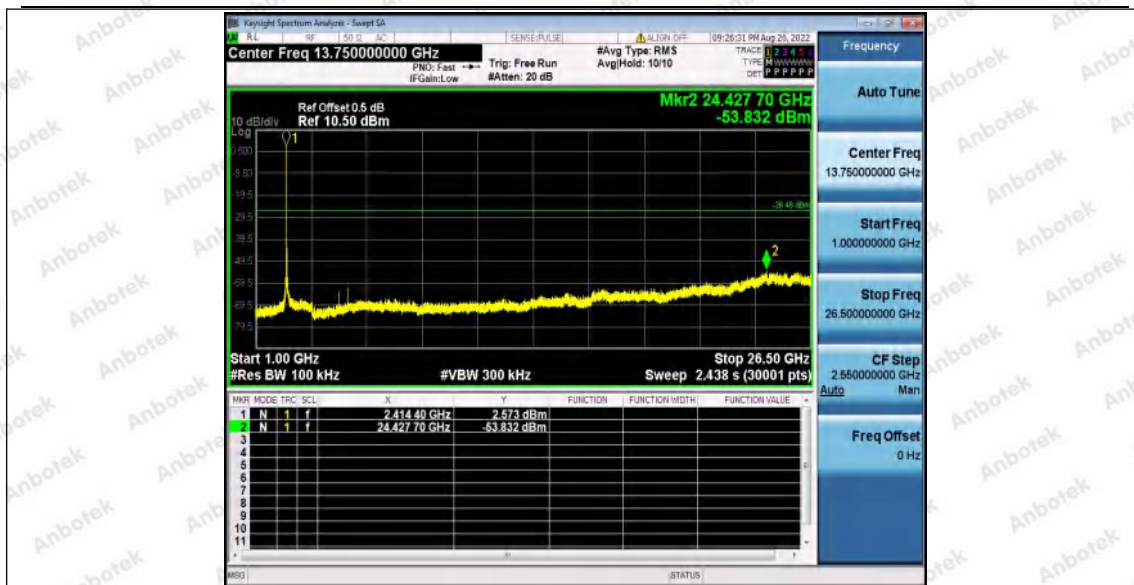
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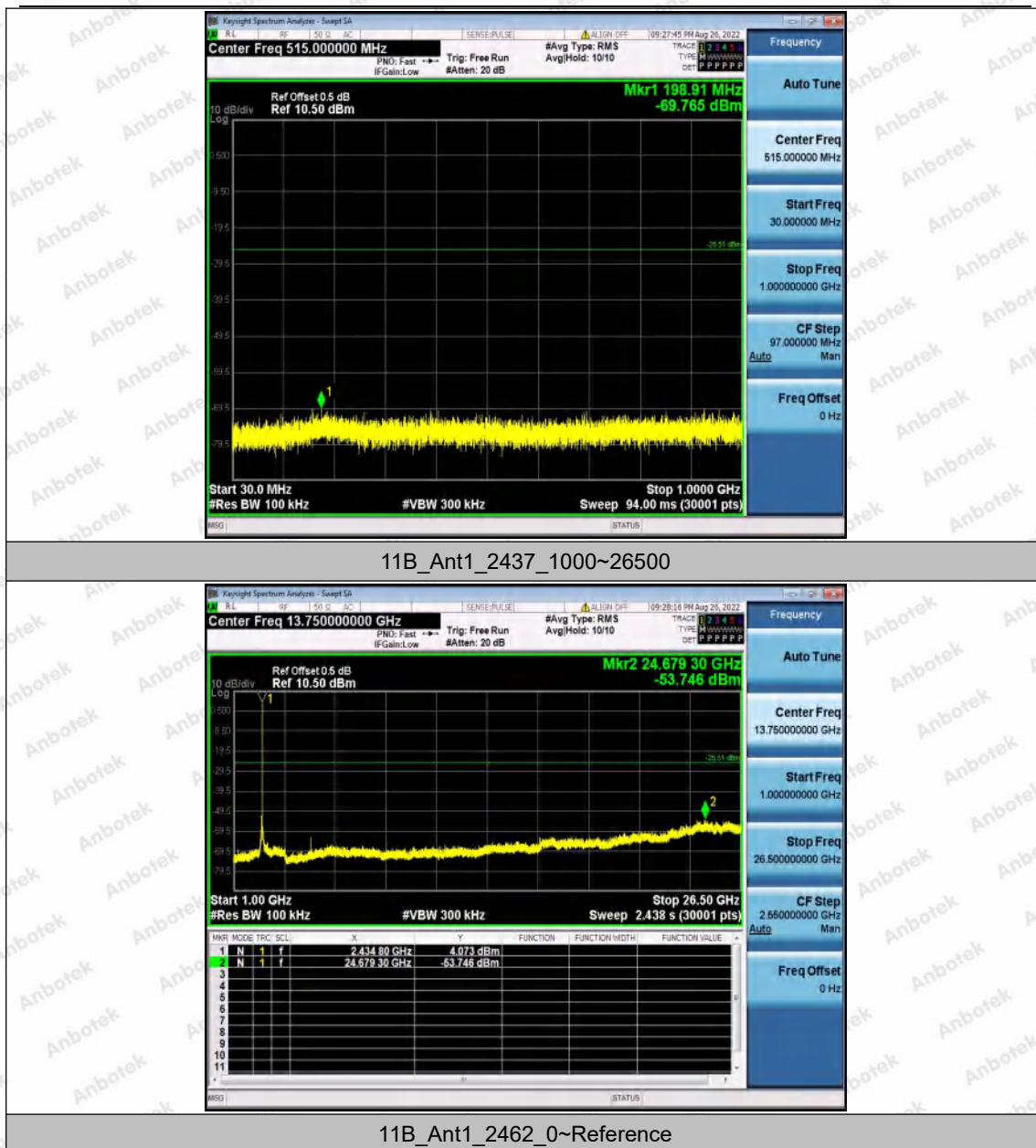


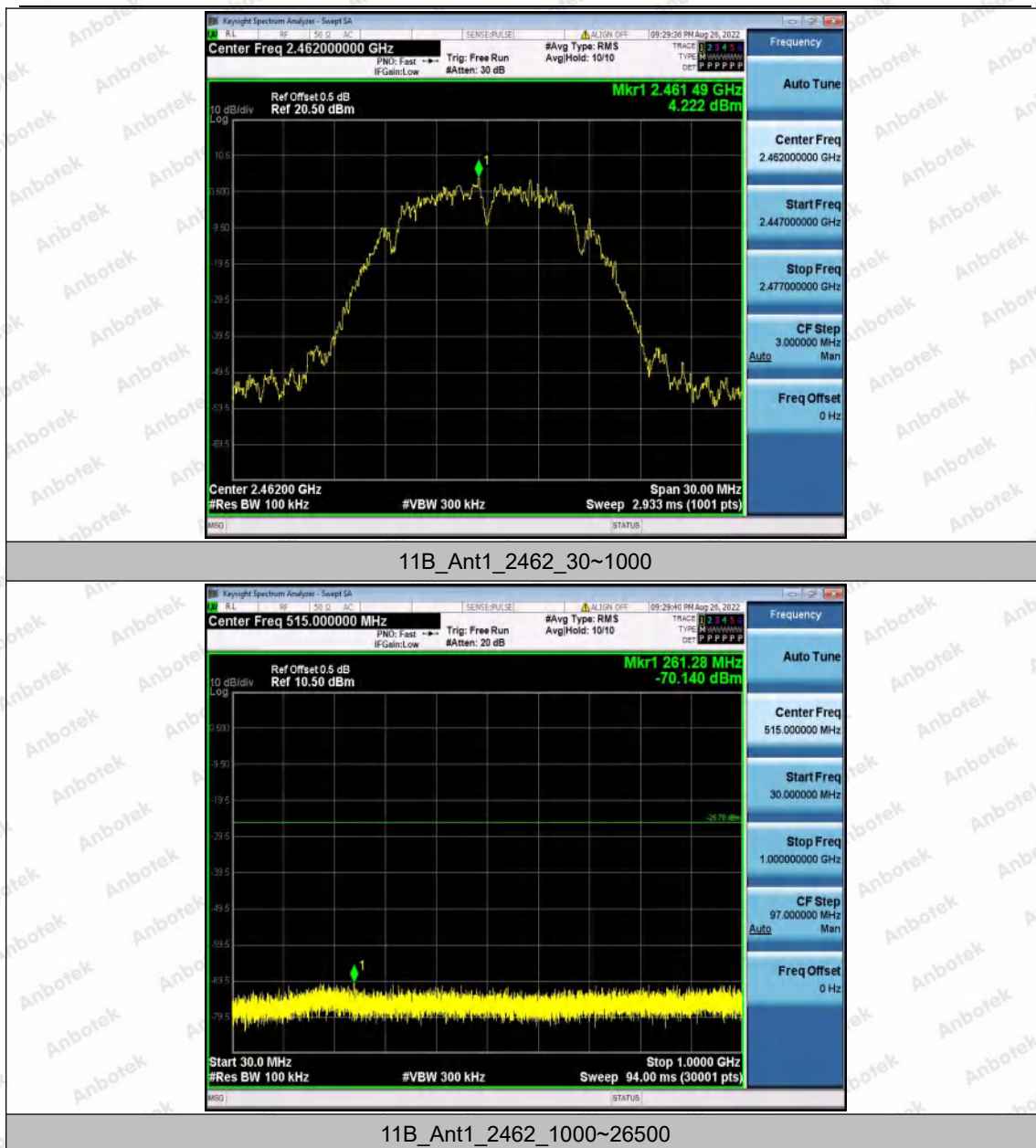
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11B_Ant1_2437_30~1000







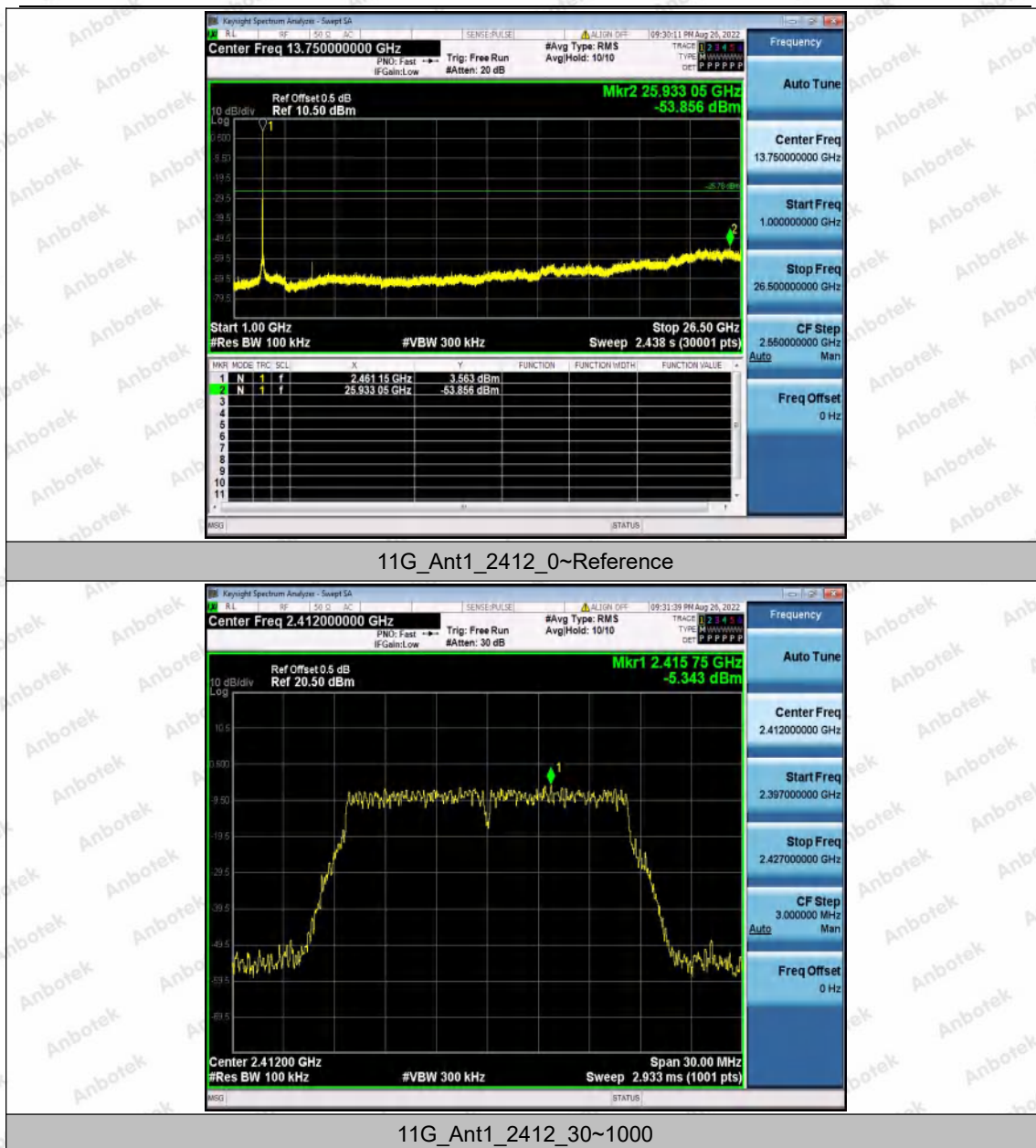
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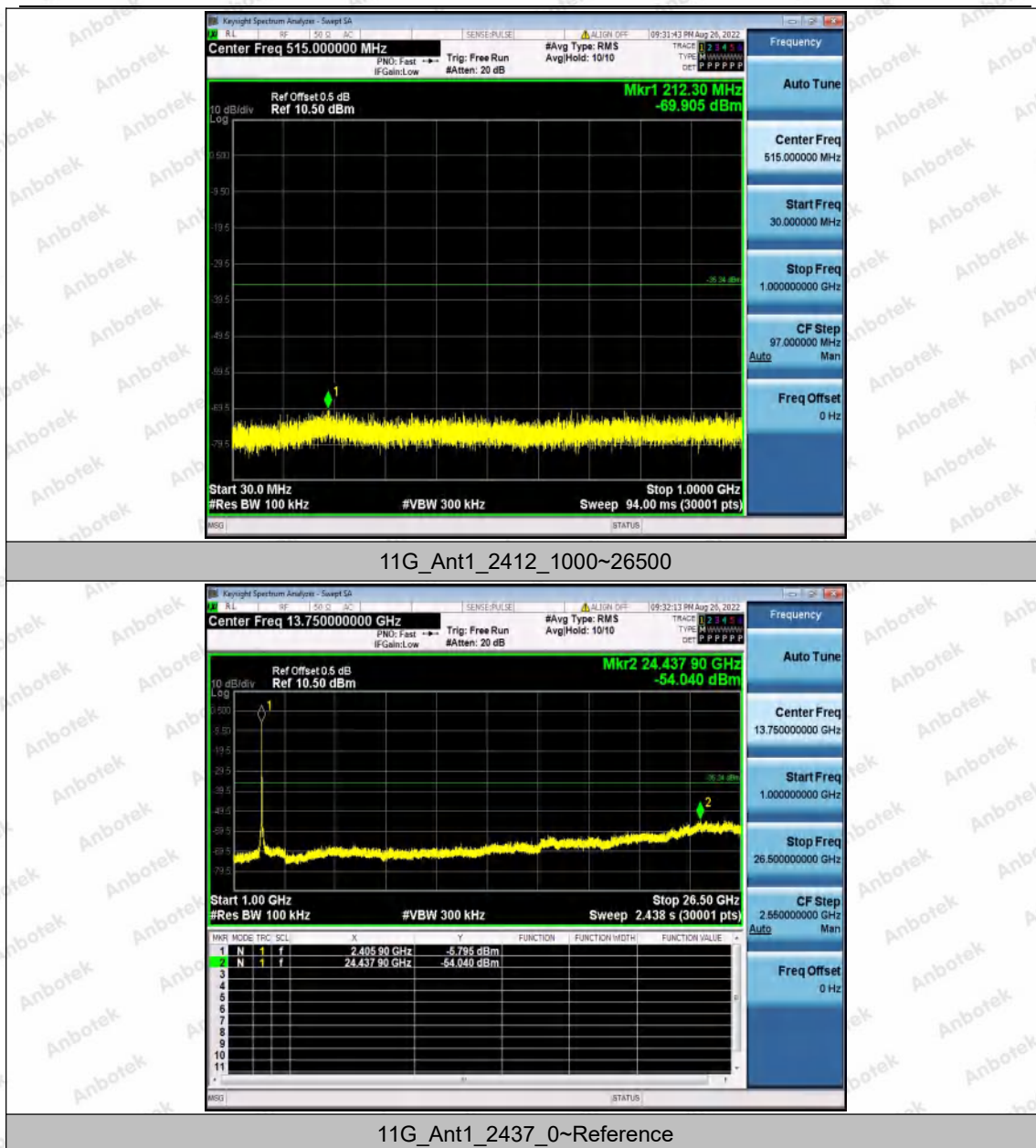
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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500

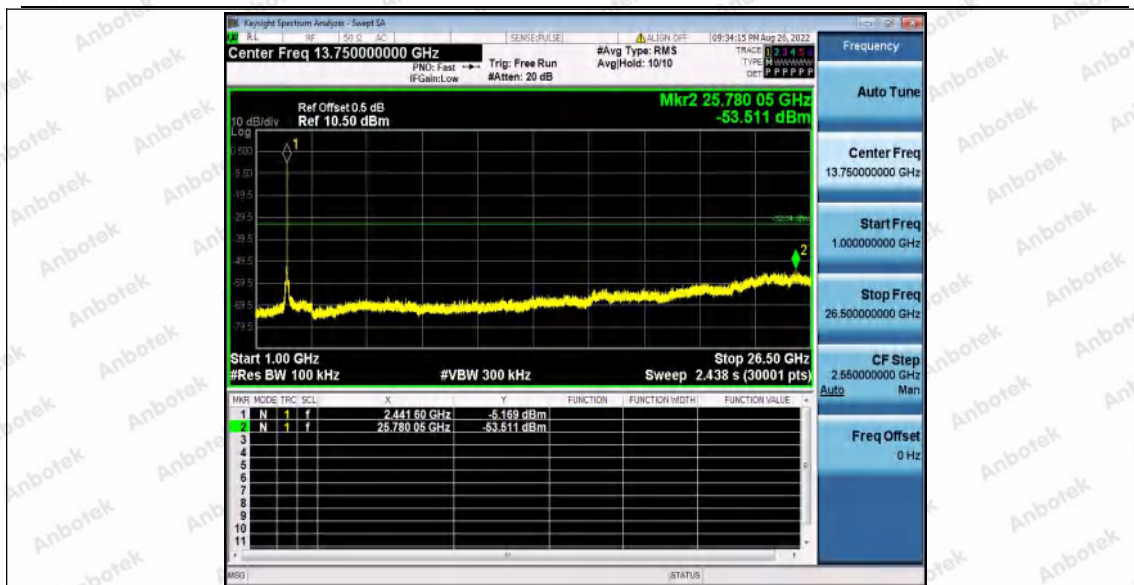
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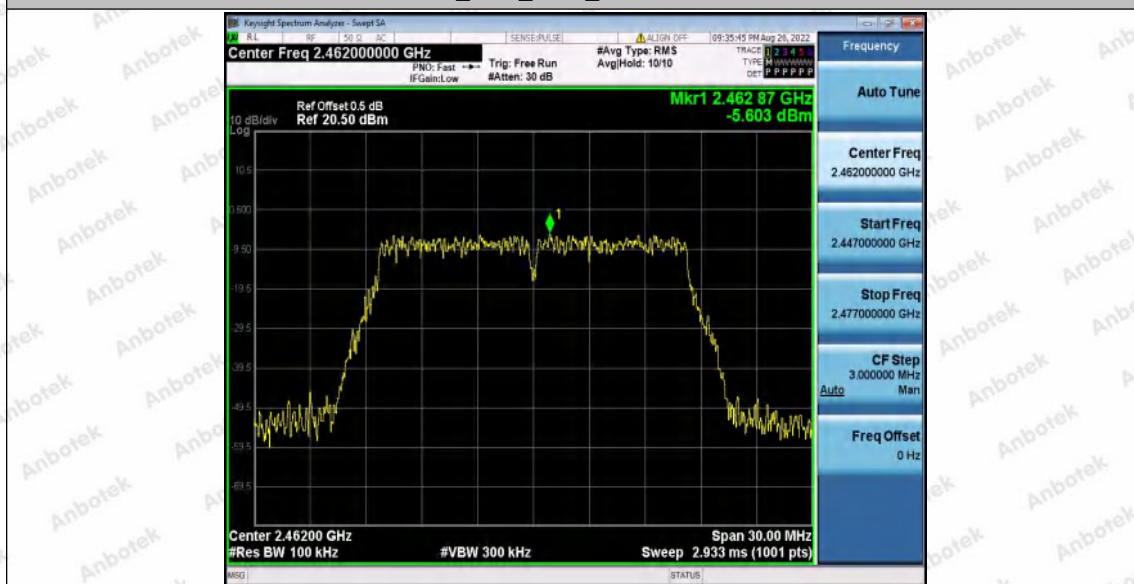


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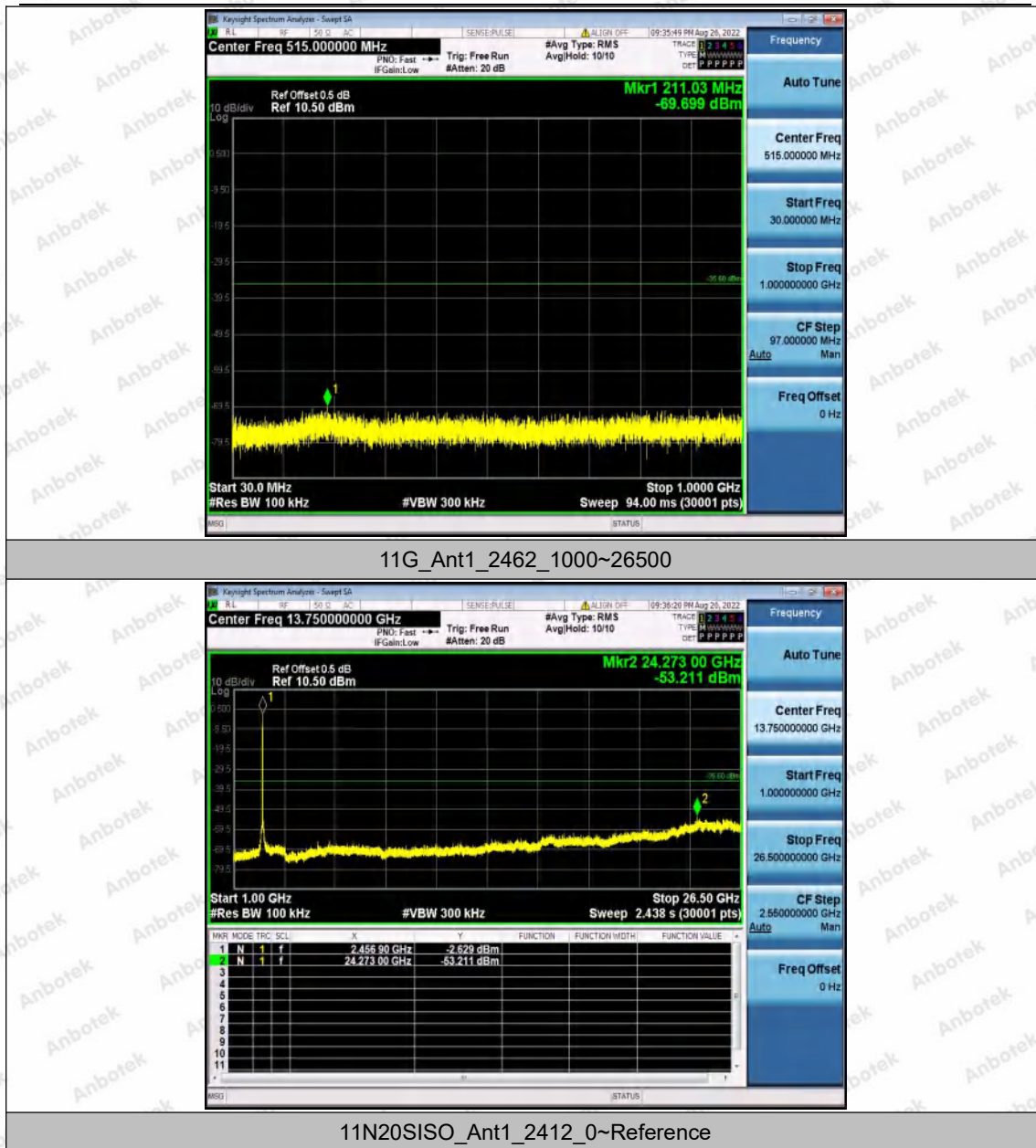


11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



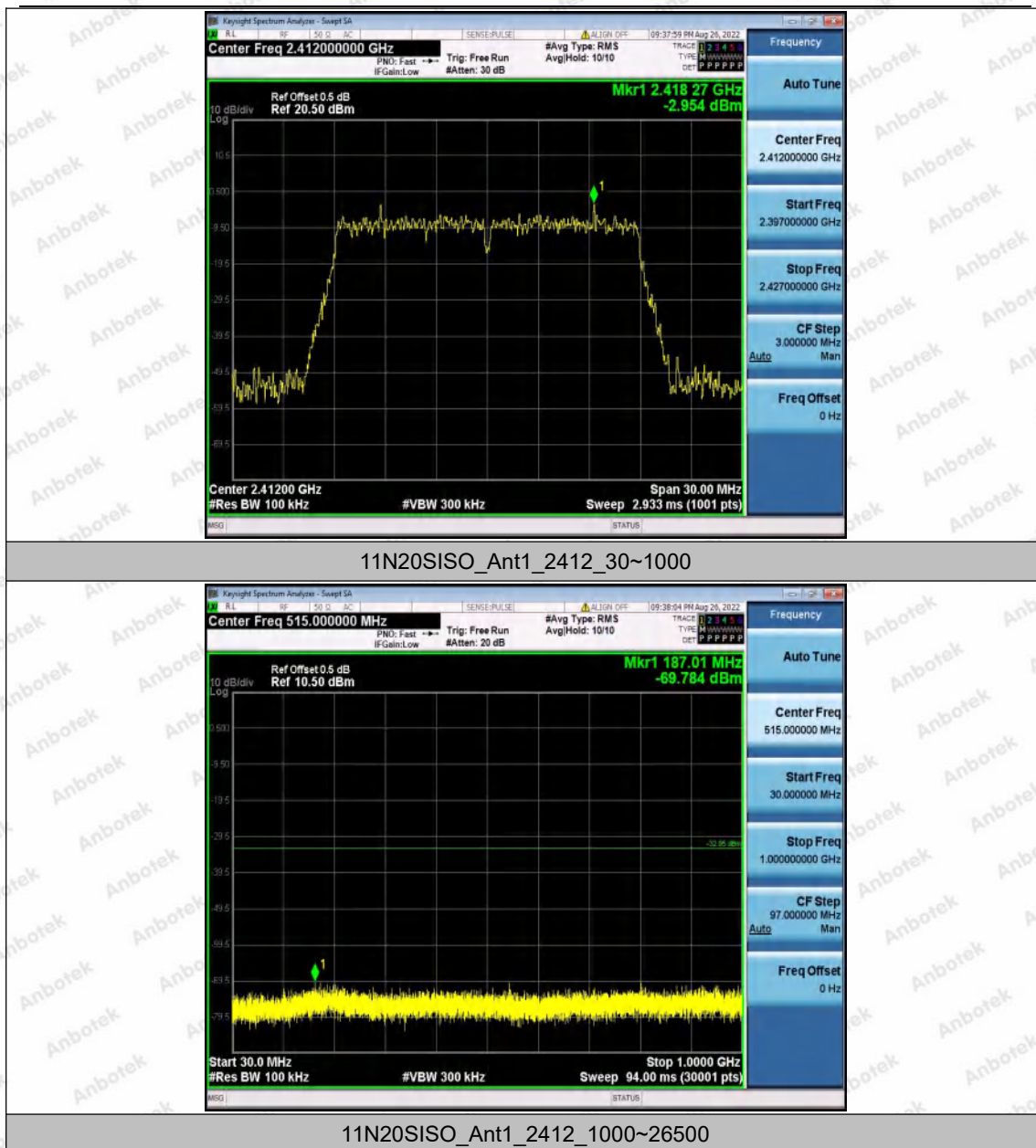
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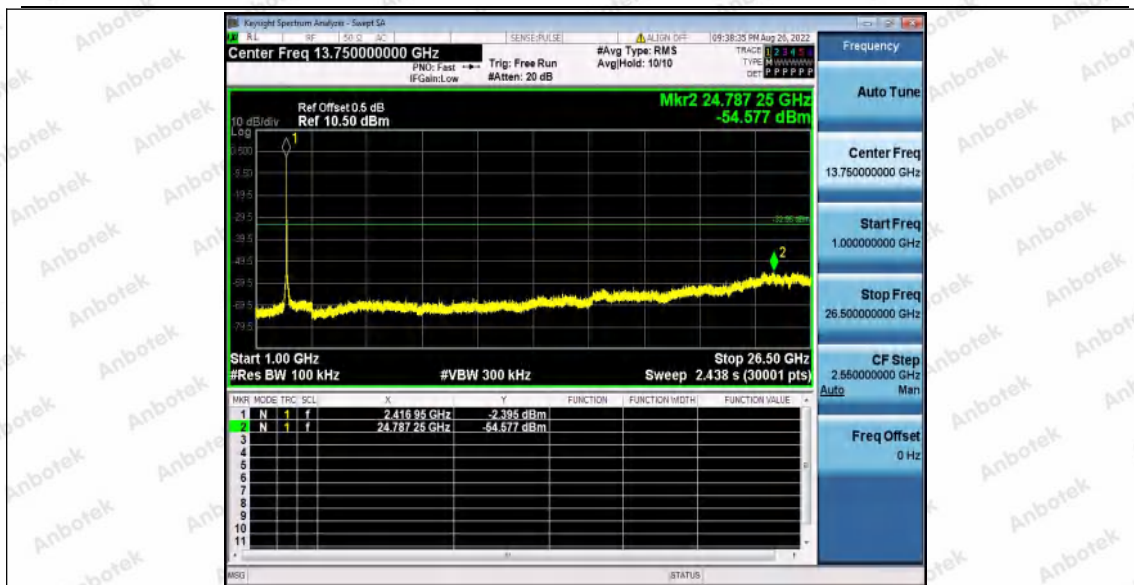
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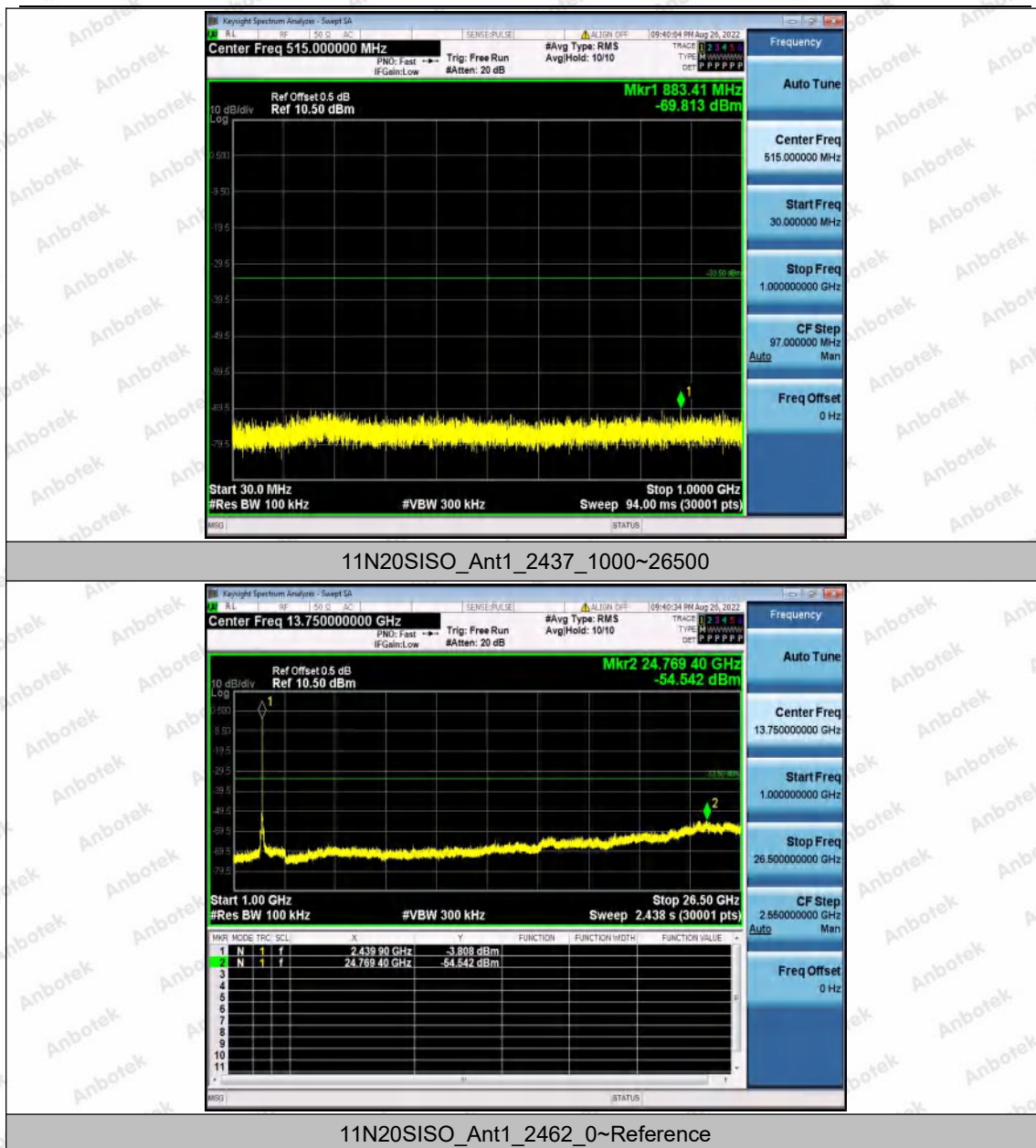


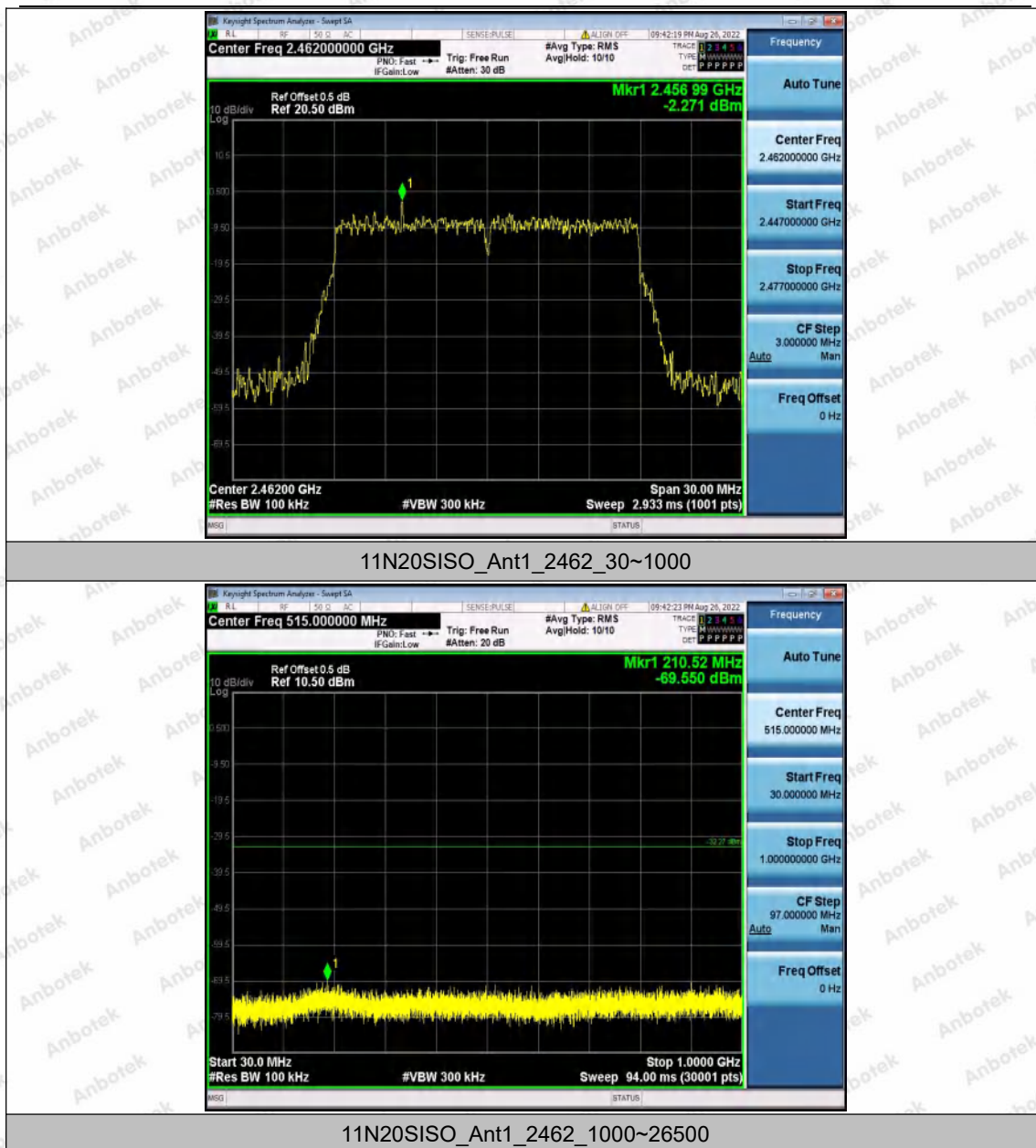
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11N20SISO_Ant1_2437_30~1000







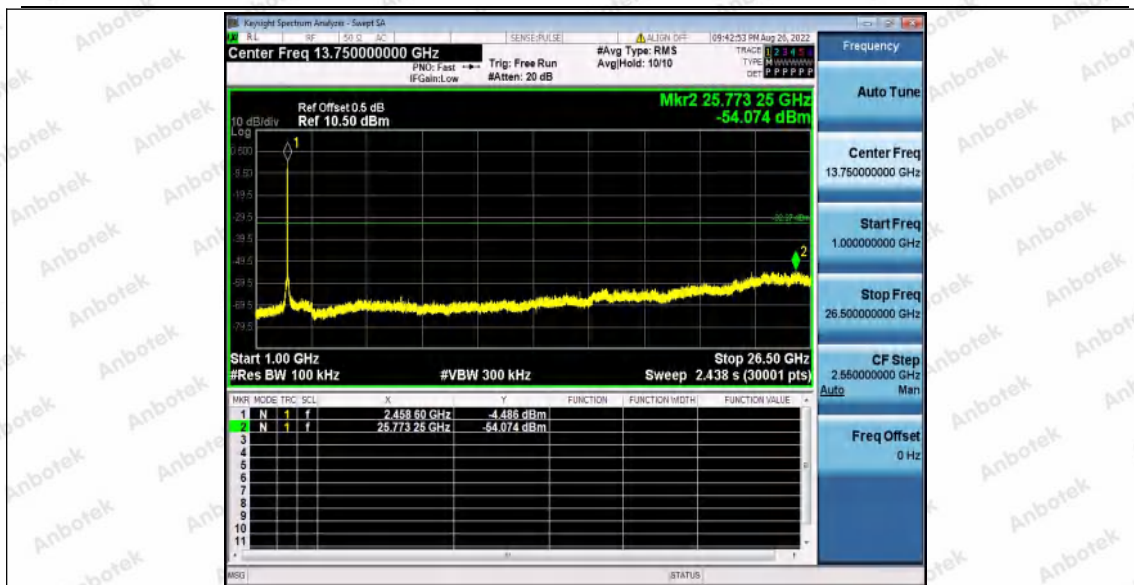
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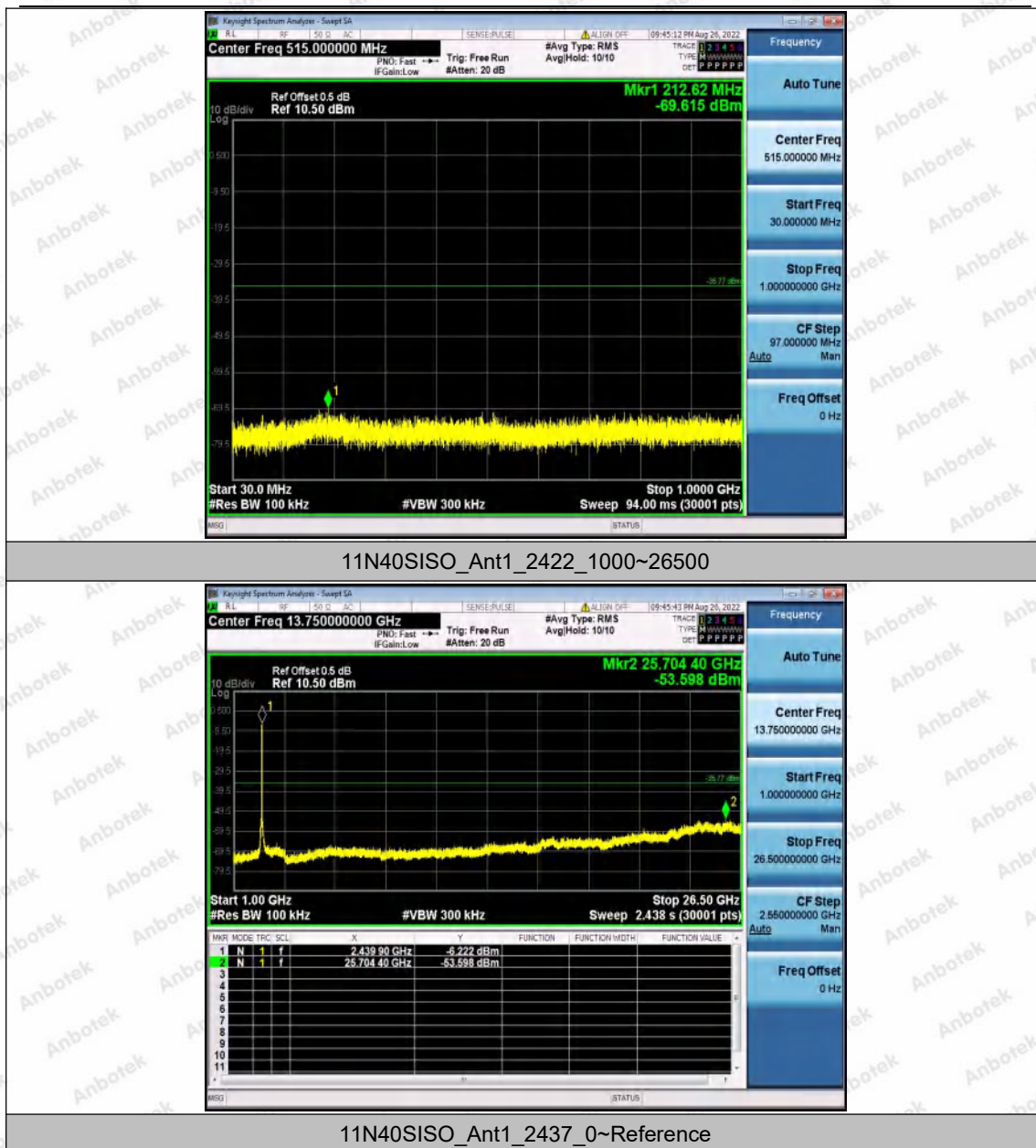


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11N40SISO_Ant1_2422_30~1000



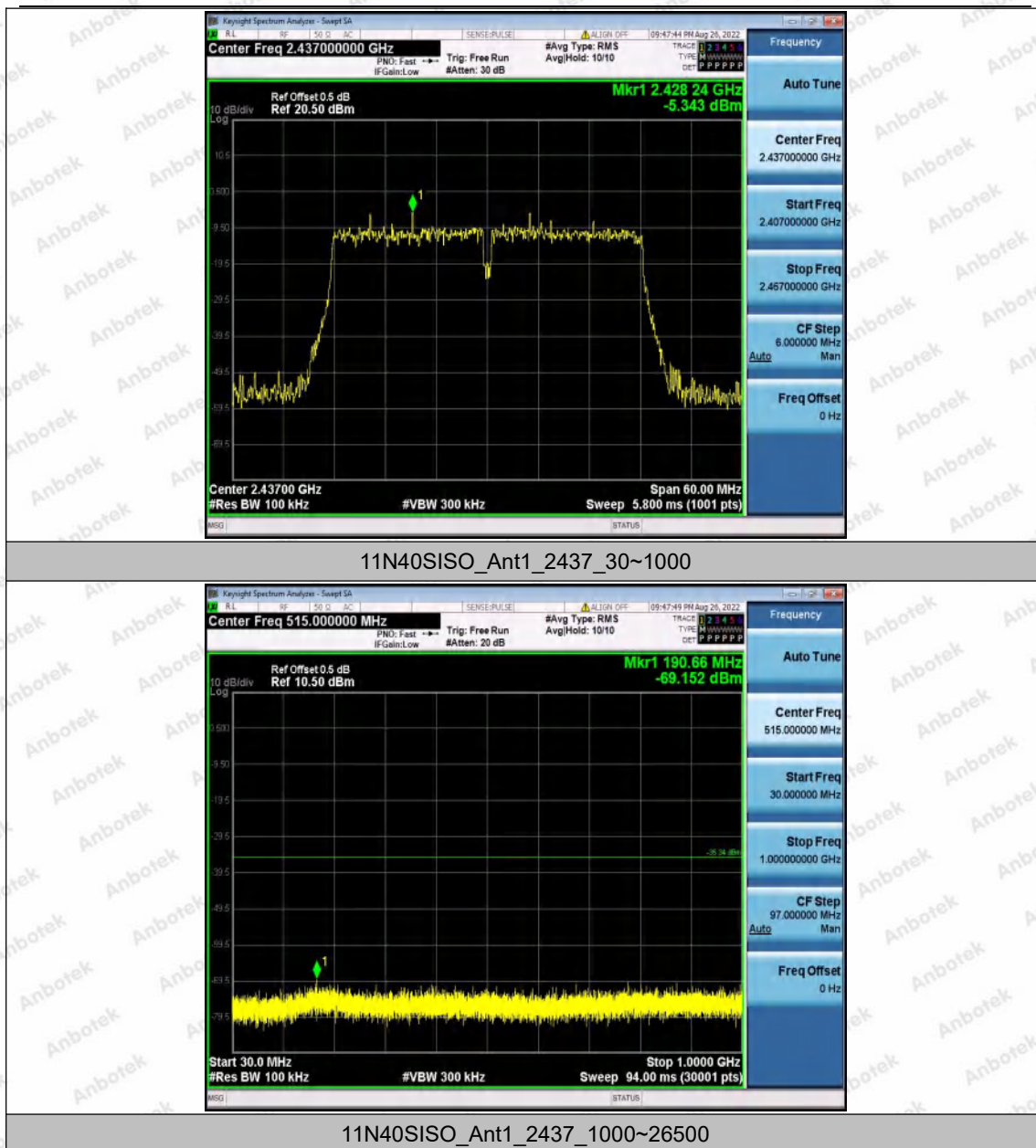
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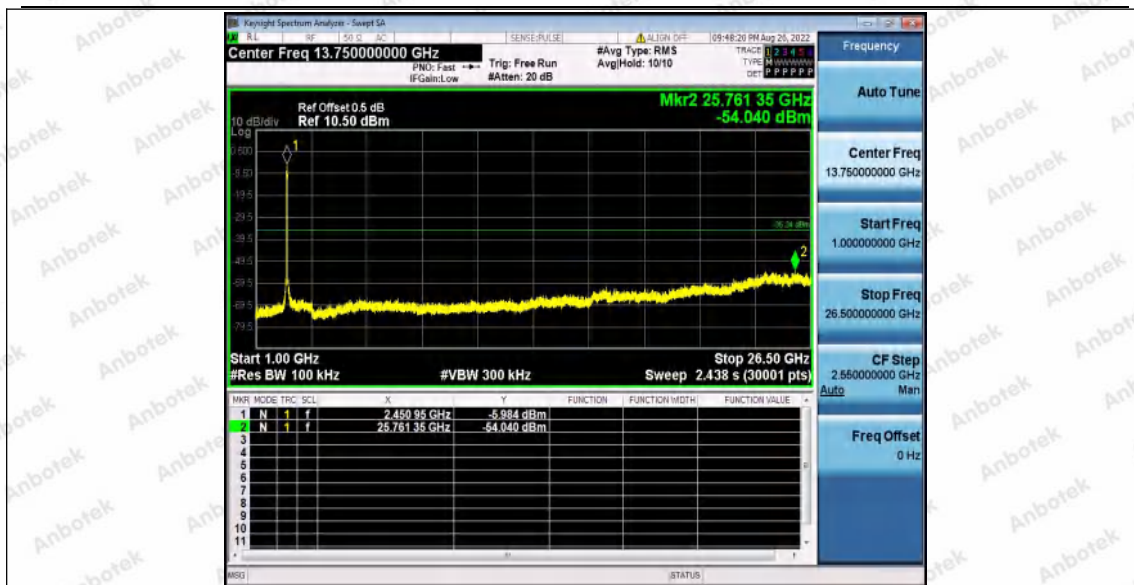
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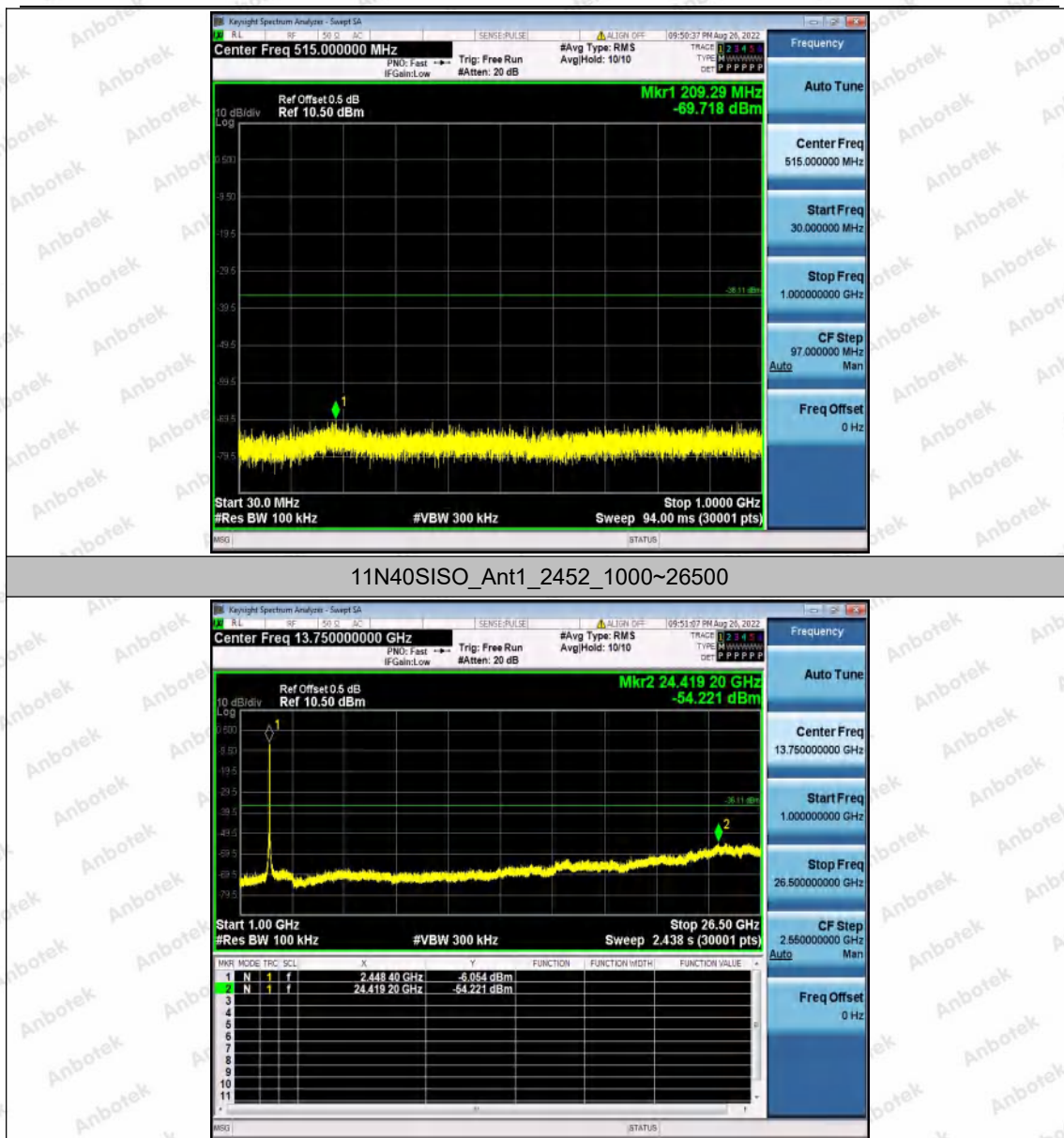


11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000





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Appendix G: Duty Cycle

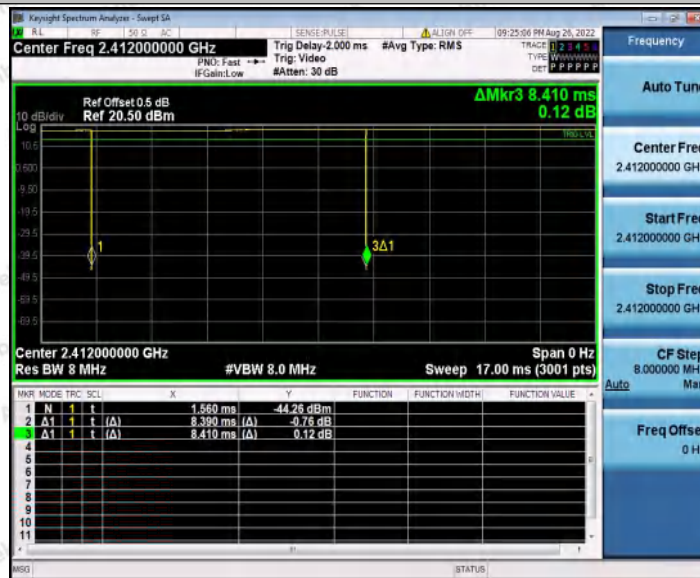
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.39	8.41	99.76	0.01
		2437	8.38	8.41	99.64	0.02
		2462	8.39	8.41	99.76	0.01
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
11N20SISO	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
11N40SISO	Ant1	2422	0.65	0.68	95.59	0.20
		2437	0.64	0.68	94.12	0.26
		2452	0.65	0.68	95.59	0.20

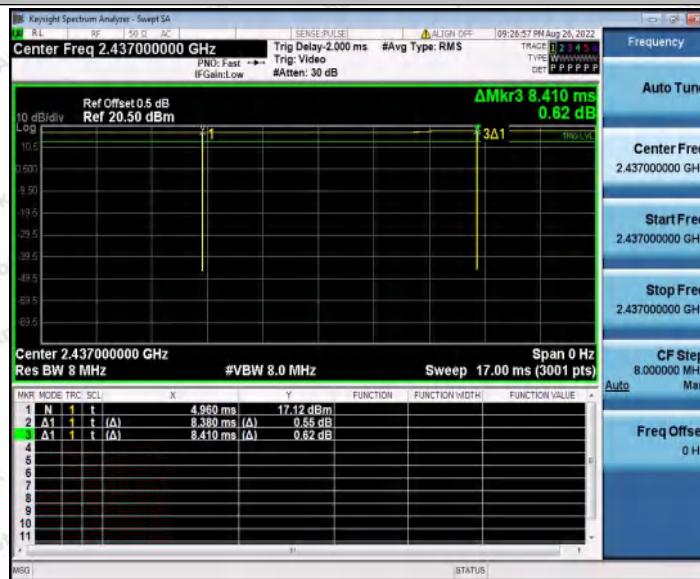


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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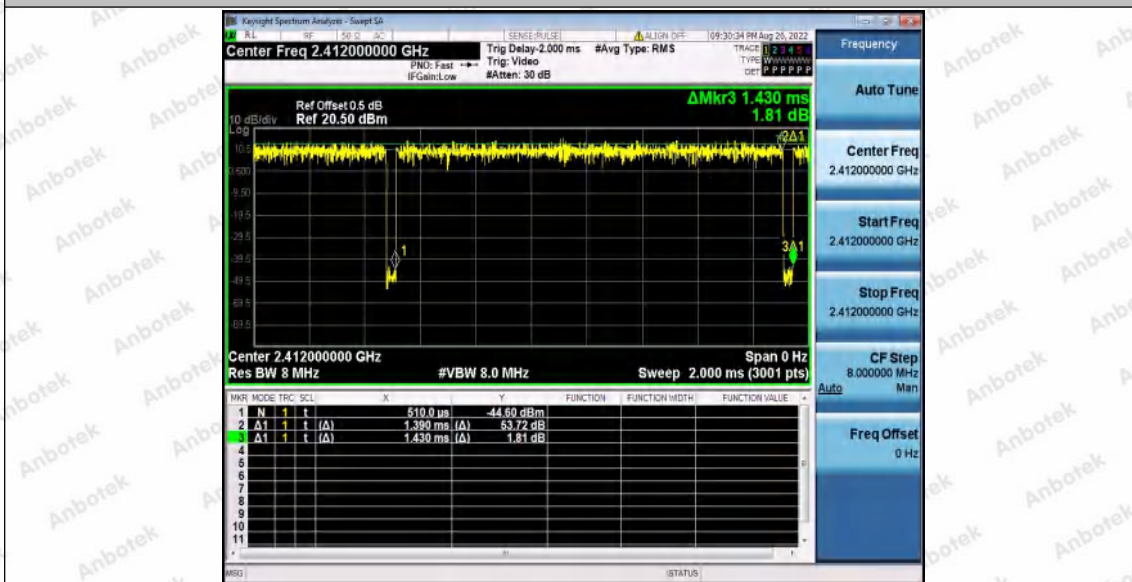


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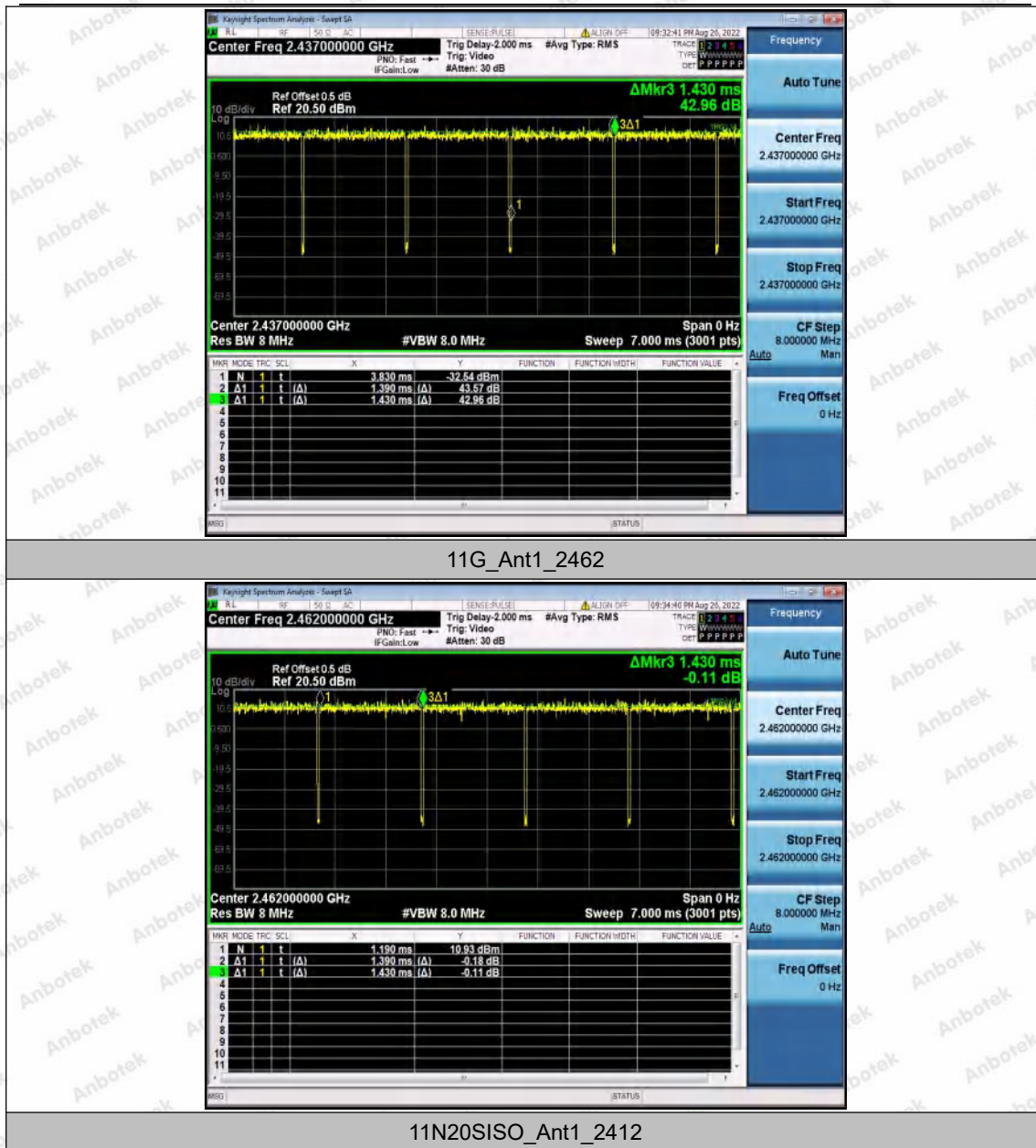


11G_Ant1_2412



11G_Ant1_2437



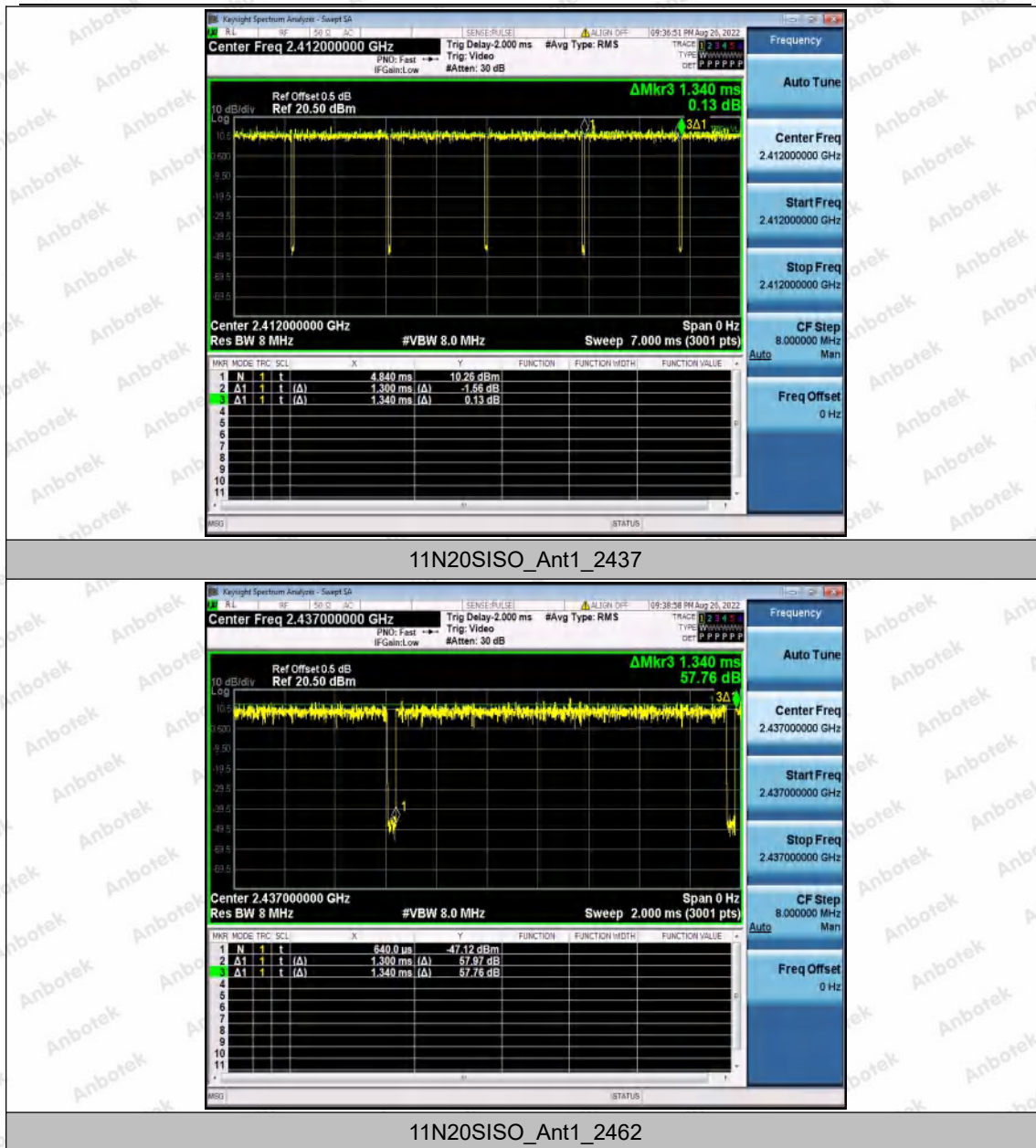


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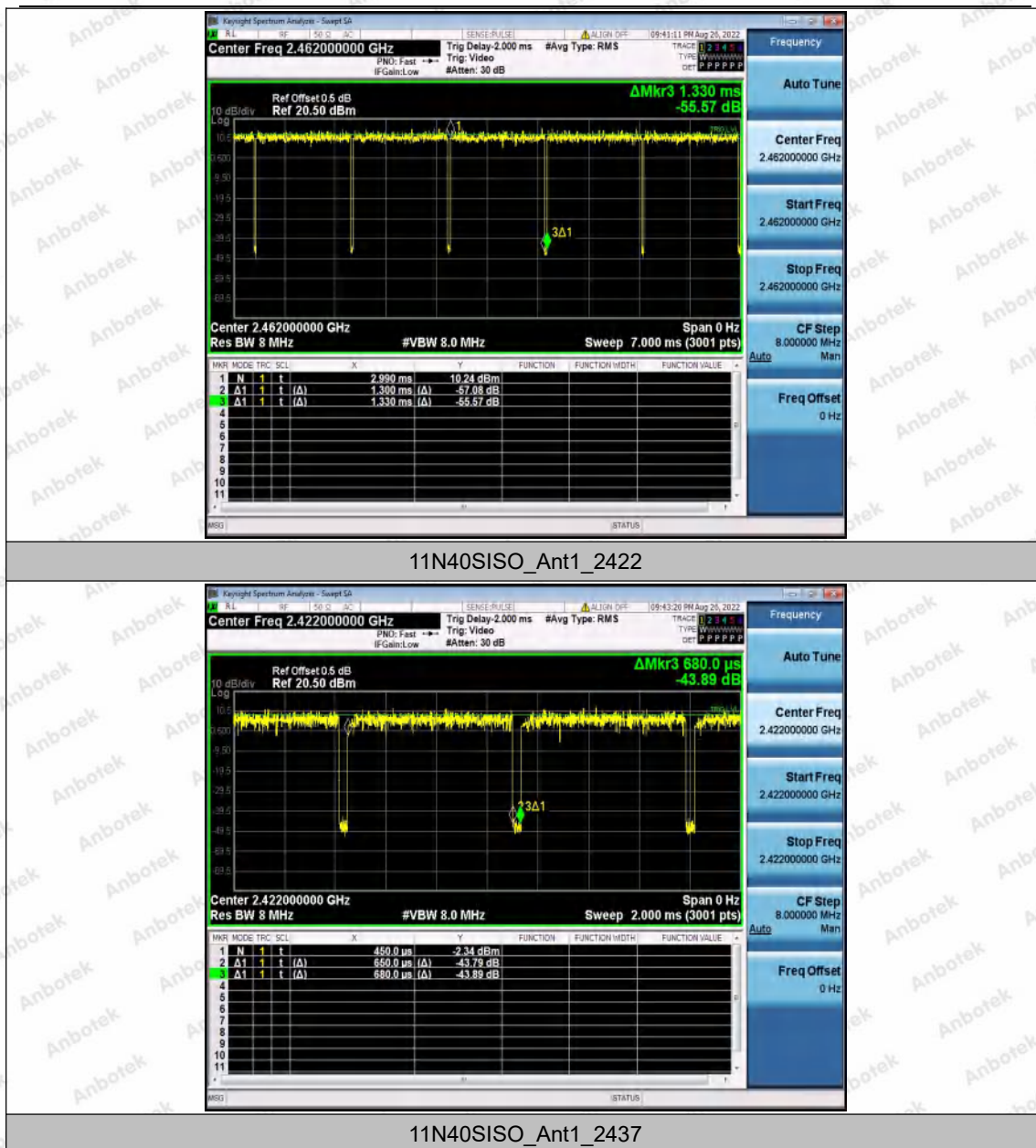
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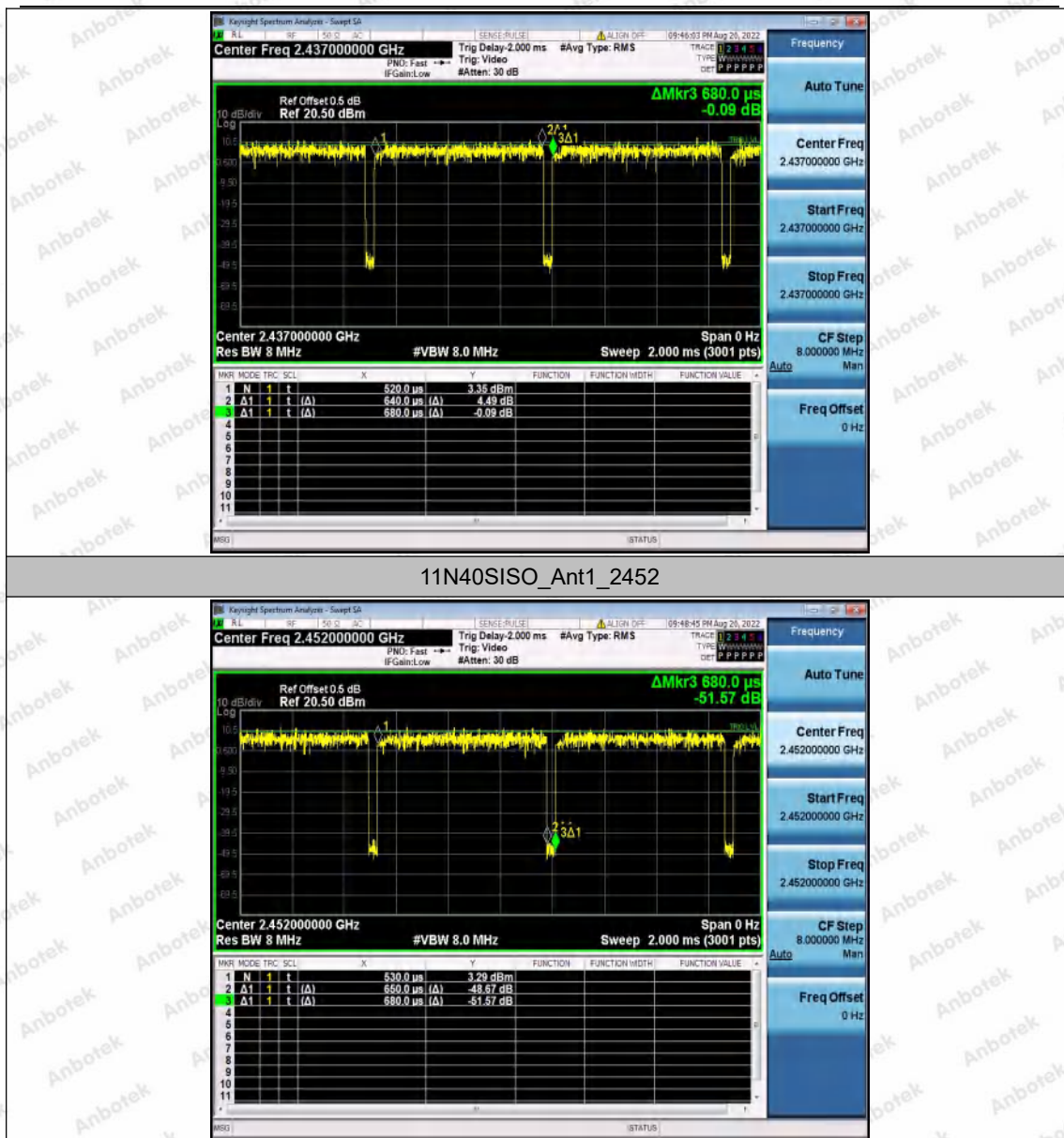
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