

Appendix Test Data

Report No.:	18220WC40037001	Test Sample No.:	1-2-2
Start Test Date:	2024.3.13	Finish Test Date:	2024.3.13
Test Engineer:	<i>Joker Wong</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24°C	Relative Humidity:	49%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.080	2407.920	2416.000	0.5	PASS
		2437	8.040	2432.960	2441.000	0.5	PASS
		2462	8.080	2457.920	2466.000	0.5	PASS
11G	Ant1	2412	12.320	2405.640	2417.960	0.5	PASS
		2437	15.640	2429.200	2444.840	0.5	PASS
		2462	14.840	2454.400	2469.240	0.5	PASS
11N20SISO	Ant1	2412	15.040	2404.440	2419.480	0.5	PASS
		2437	15.960	2429.400	2445.360	0.5	PASS
		2462	16.800	2453.560	2470.360	0.5	PASS

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Test Graphs



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11G_Ant1_2412



11G_Ant1_2437

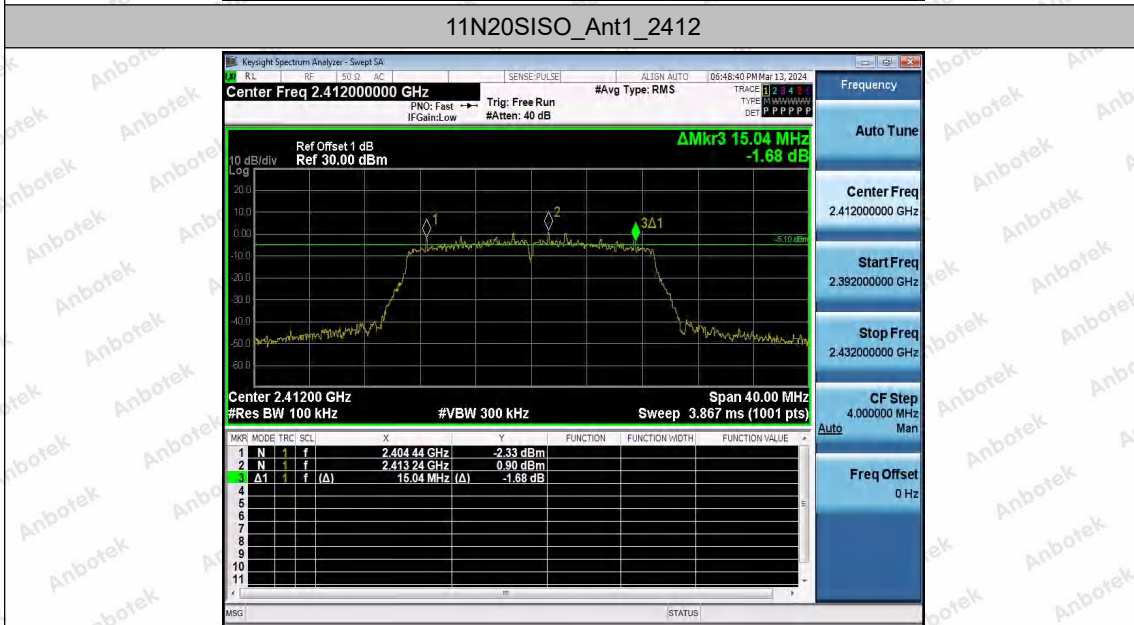
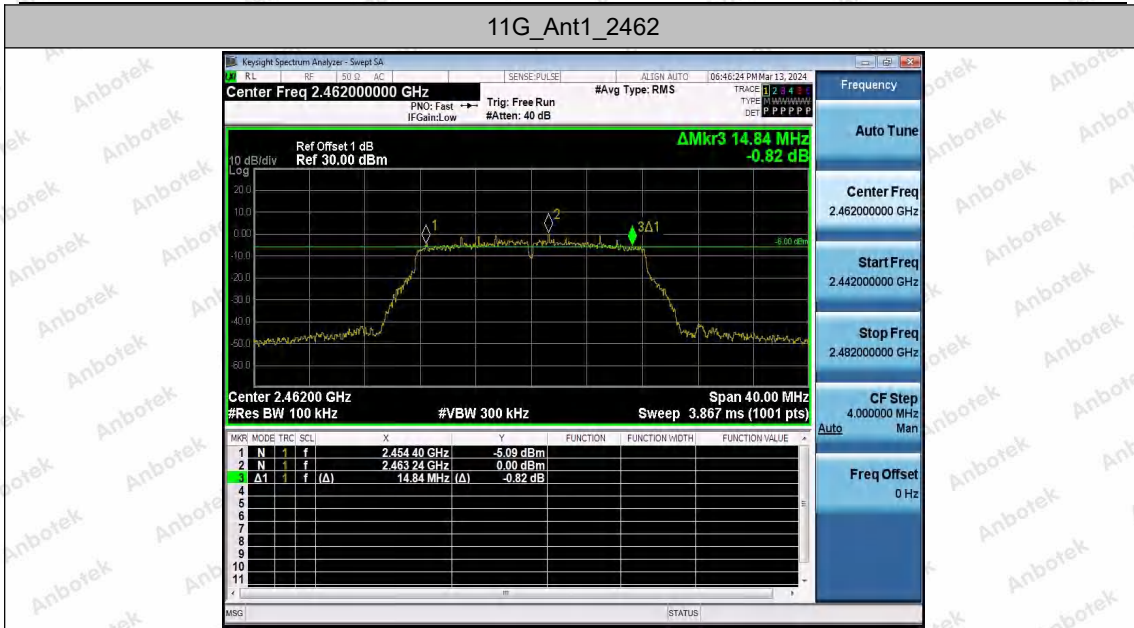


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11N20SISO_Ant1_2437

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11N20SISO_Ant1_2462



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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.836	2405.5826	2418.4186	---	---
		2437	12.841	2430.5811	2443.4221	---	---
		2462	12.814	2455.6064	2468.4204	---	---
11G	Ant1	2412	16.775	2403.6427	2420.4177	---	---
		2437	16.814	2428.6045	2445.4185	---	---
		2462	16.855	2453.5588	2470.4138	---	---
11N20SISO	Ant1	2412	17.749	2403.1351	2420.8841	---	---
		2437	17.750	2428.1226	2445.8726	---	---
		2462	17.775	2453.1322	2470.9072	---	---

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11G_Ant1_2412



11G_Ant1_2437

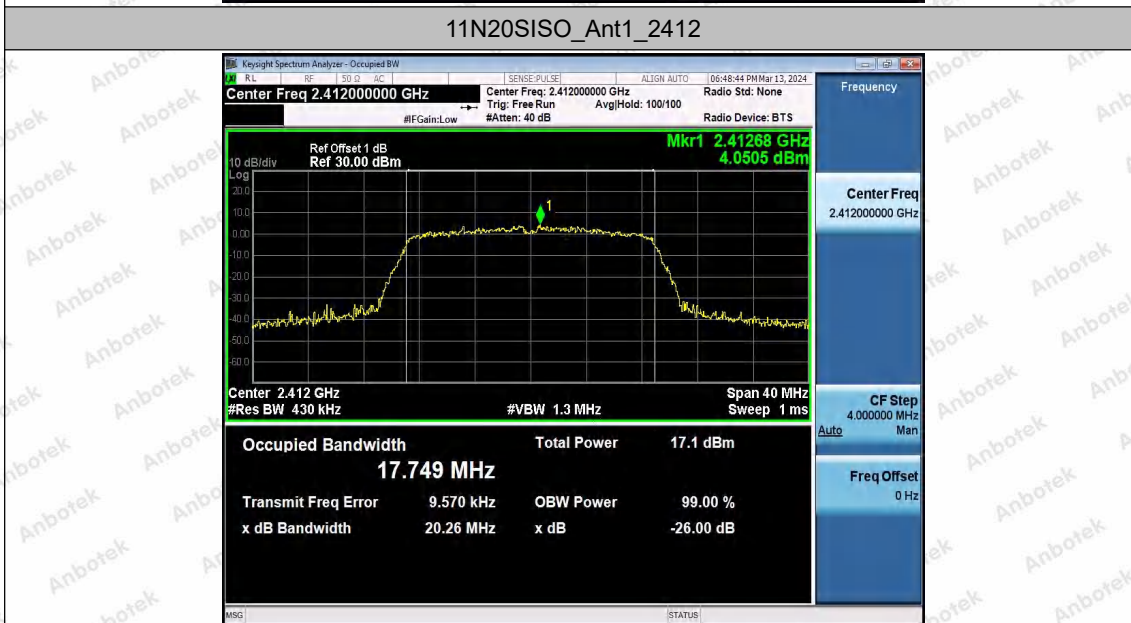
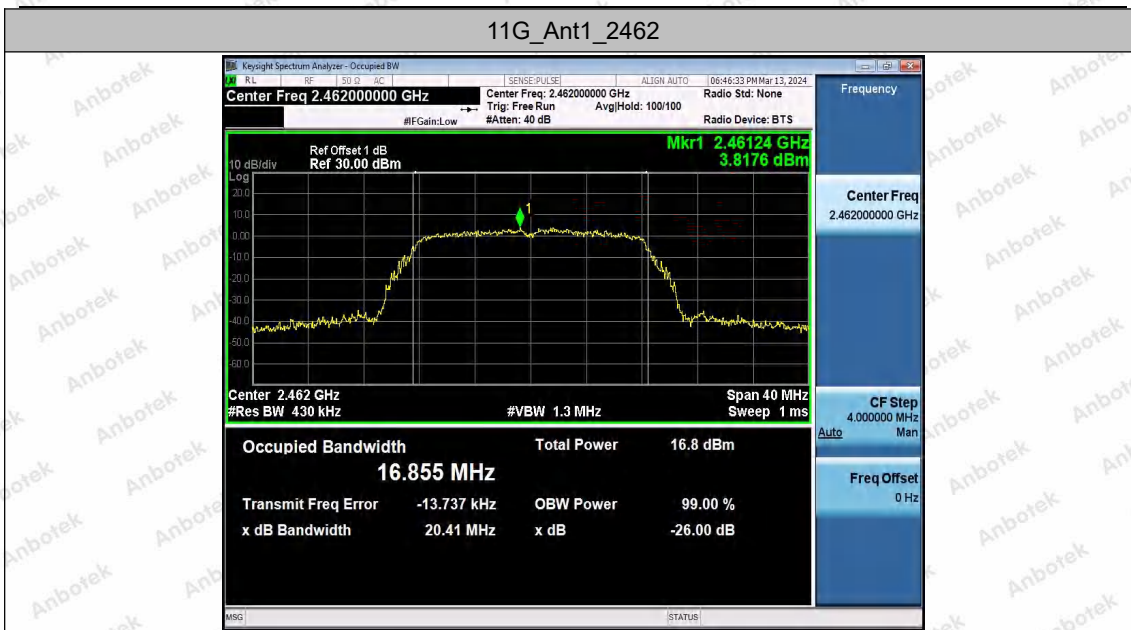


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11N20SISO_Ant1_2437

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Appendix C: Maximum conducted output power

Test Result Average

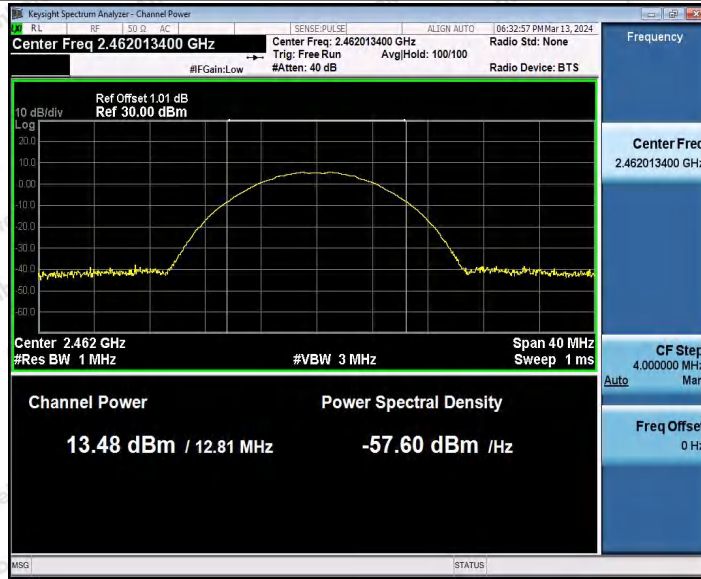
Test Mode	Antenna	Frequency [MHz]	Set Power	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	---	13.90	99.52	0.02	13.92	≤30.00	PASS
		2437	---	13.69	99.52	0.02	13.71	≤30.00	PASS
		2462	---	13.47	99.76	0.01	13.48	≤30.00	PASS
11G	Ant1	2412	---	15.55	97.89	0.09	15.64	≤30.00	PASS
		2437	---	15.35	97.20	0.12	15.47	≤30.00	PASS
		2462	---	15.14	97.89	0.09	15.23	≤30.00	PASS
11N20 SISO	Ant1	2412	---	15.61	97.74	0.10	15.71	≤30.00	PASS
		2437	---	15.32	96.99	0.13	15.45	≤30.00	PASS
		2462	---	15.31	97.01	0.13	15.44	≤30.00	PASS

Note: The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.

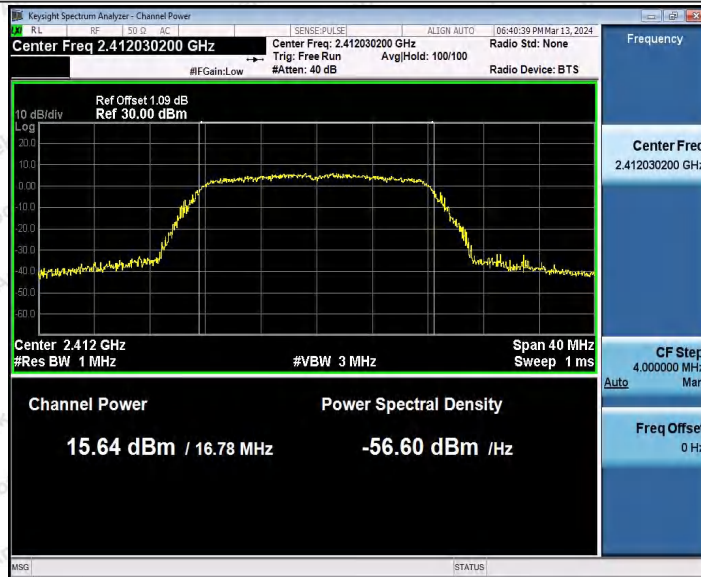


Test Graphs

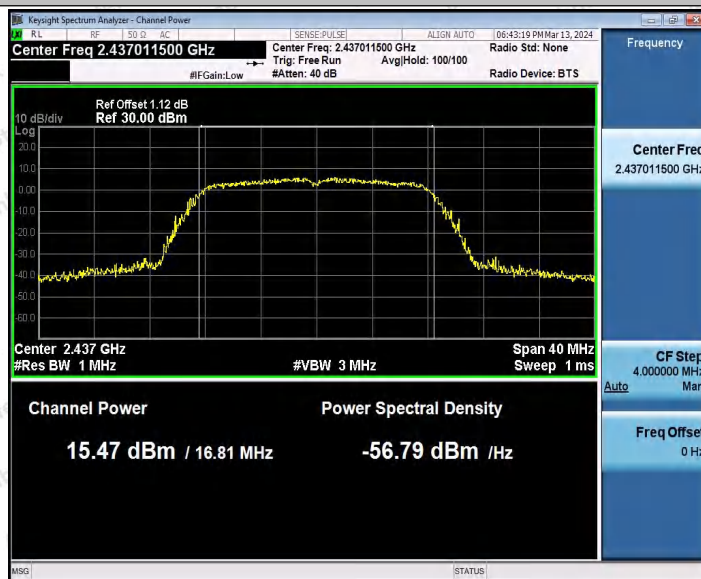




11G_Ant1_2412



11G_Ant1_2437



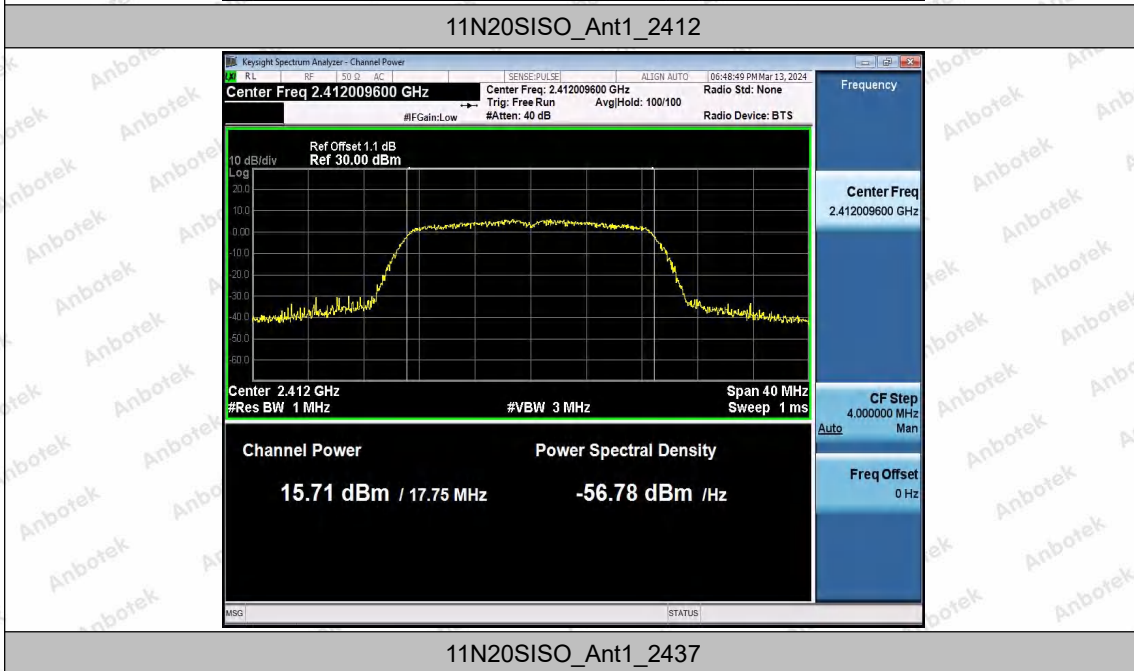
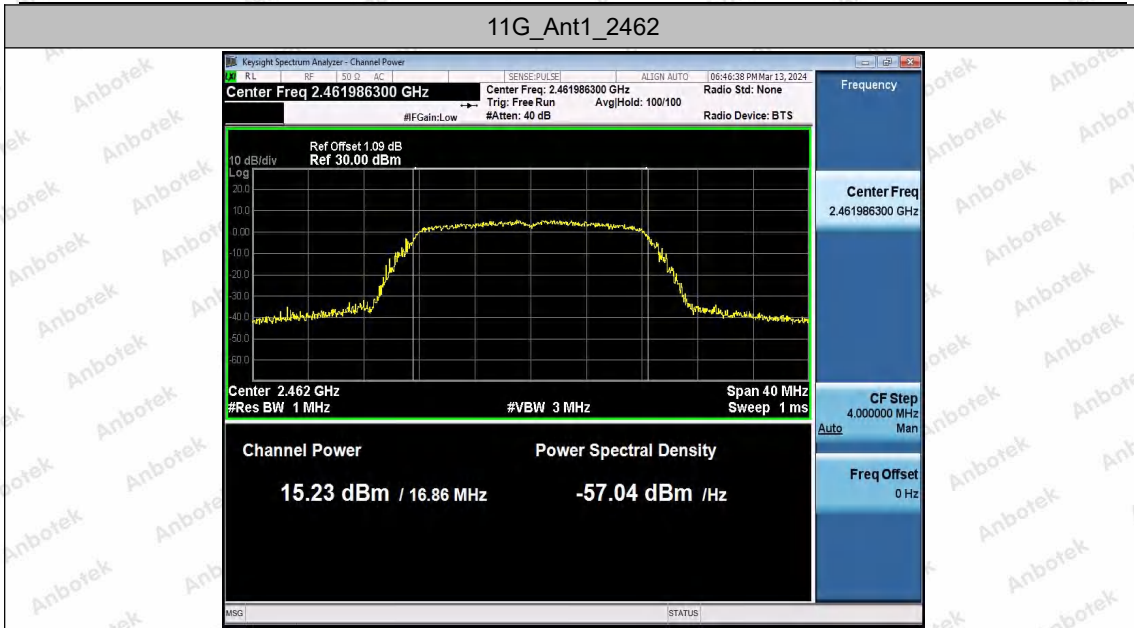
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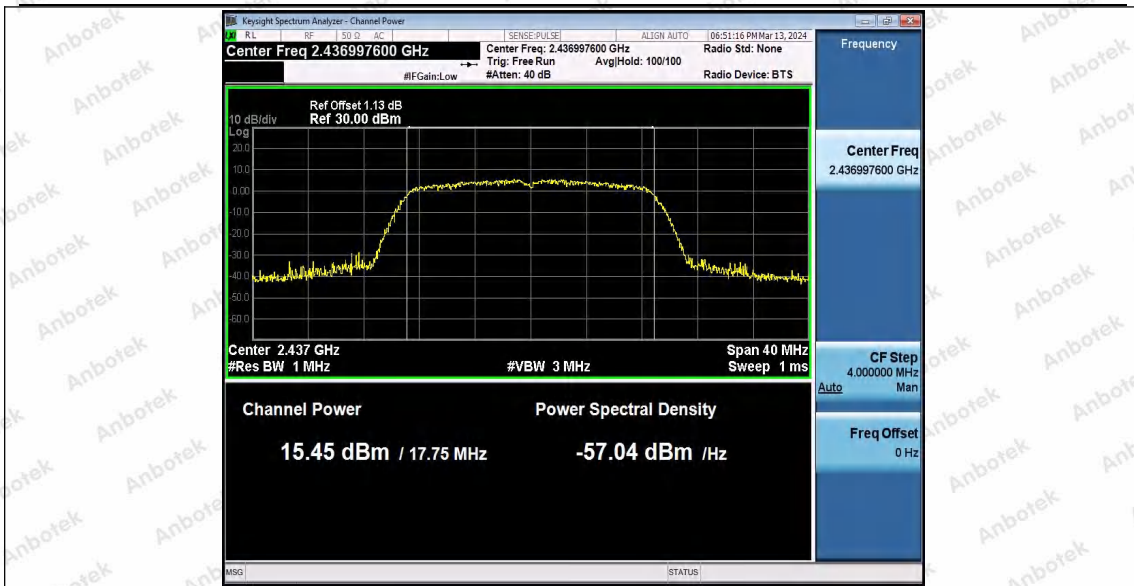
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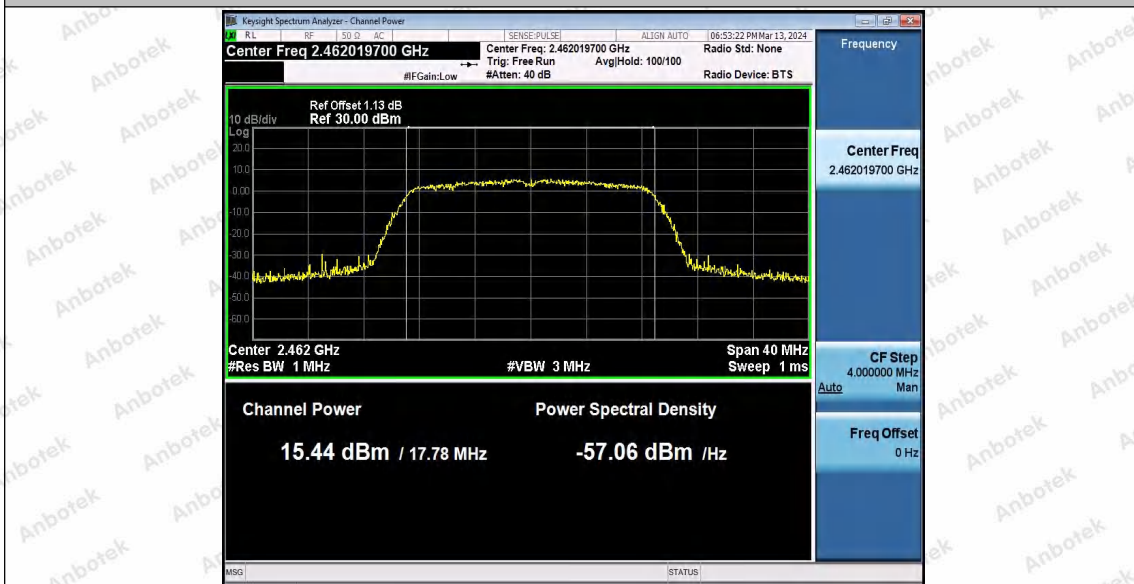


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11N20SISO_Ant1_2462



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Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]
11B	Ant1	2412	-8.64	-18.64	≤8.00	PASS
		2437	-8.92	-18.92	≤8.00	PASS
		2462	-9.07	-19.07	≤8.00	PASS
11G	Ant1	2412	-12.12	-22.12	≤8.00	PASS
		2437	-12.75	-22.75	≤8.00	PASS
		2462	-12.87	-22.87	≤8.00	PASS
11N20SISO	Ant1	2412	-12.09	-22.09	≤8.00	PASS
		2437	-12.62	-22.62	≤8.00	PASS
		2462	-12.73	-22.73	≤8.00	PASS

Note:

1. The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.
2. $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3))$

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Test Graphs



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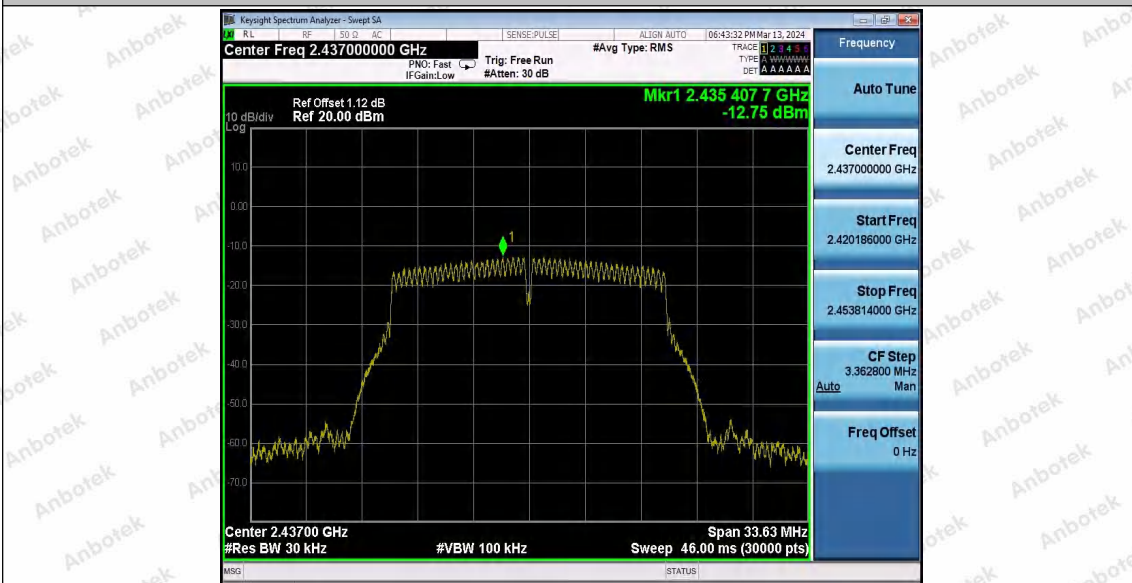




11G_Ant1_2412



11G_Ant1_2437



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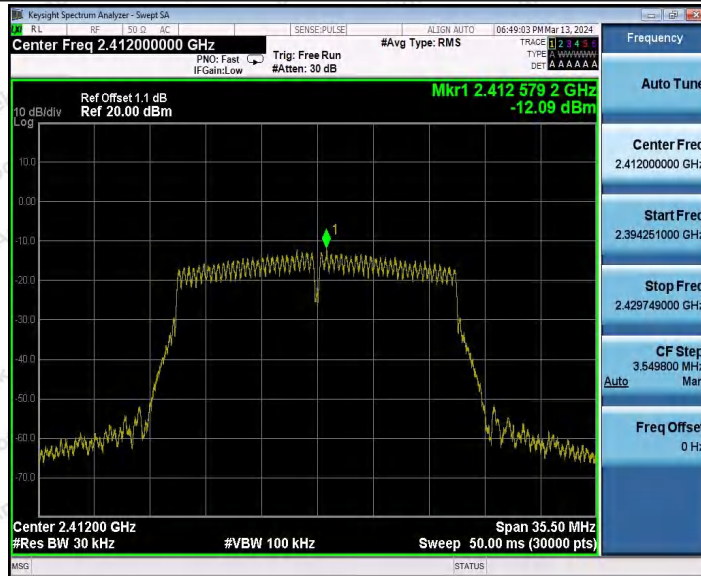
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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Appendix E: Conducted Band edge

Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.20	-48.04	≤-26.8	PASS
		High	2462	2.71	-53.04	≤-27.29	PASS
11G	Ant1	Low	2412	1.26	-41.61	≤-28.74	PASS
		High	2462	1.03	-50.53	≤-28.97	PASS
11N20SISO	Ant1	Low	2412	0.27	-41.49	≤-29.73	PASS
		High	2462	0.99	-51.10	≤-29.01	PASS

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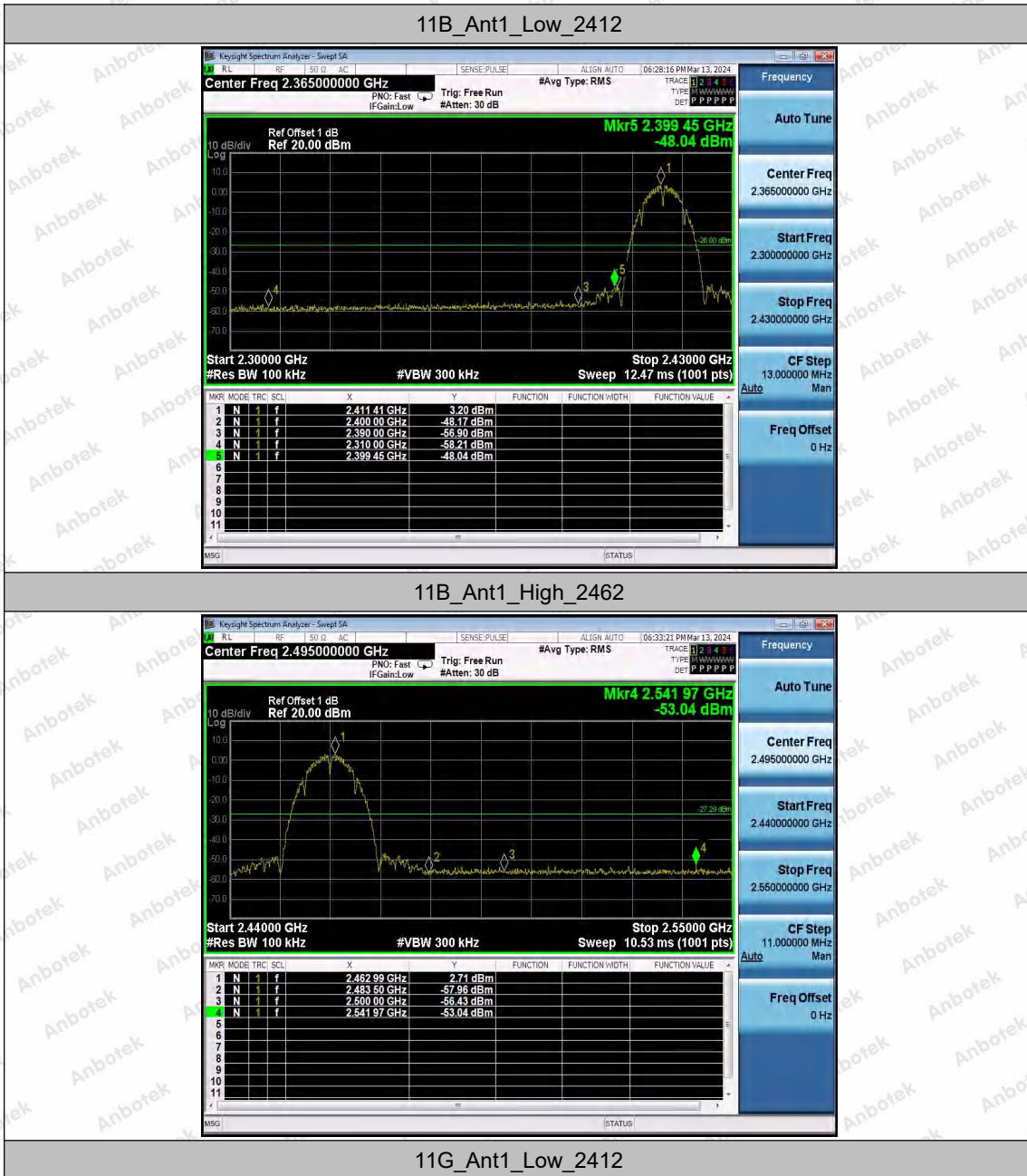
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Test Graphs

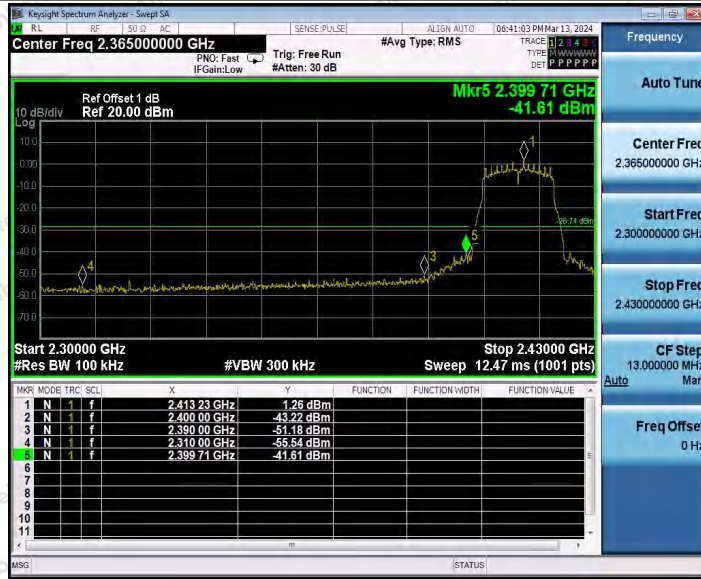


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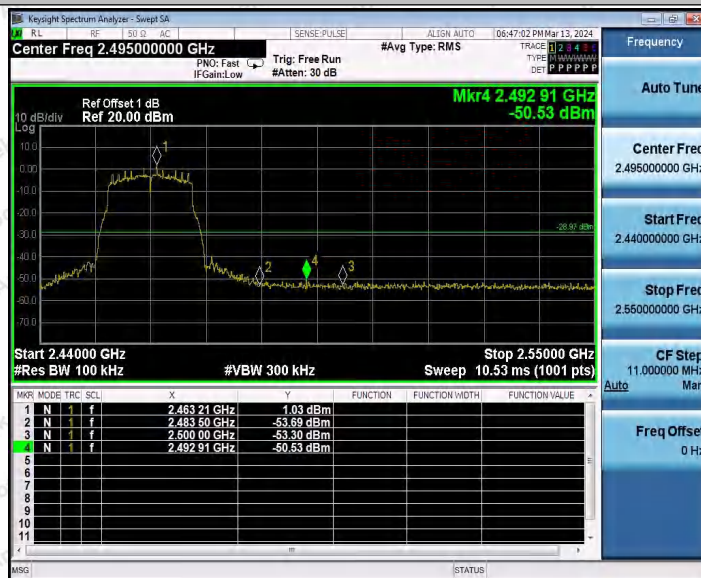
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



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Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.22	3.22	---	PASS
			30~1000	3.22	-67.63	≤-26.78	PASS
			1000~26500	3.22	-50.46	≤-26.78	PASS
		2437	Reference	2.98	2.98	---	PASS
			30~1000	2.98	-67.9	≤-27.02	PASS
			1000~26500	2.98	-51.97	≤-27.02	PASS
		2462	Reference	2.77	2.77	---	PASS
			30~1000	2.77	-67.91	≤-27.23	PASS
			1000~26500	2.77	-53.22	≤-27.23	PASS
11G	Ant1	2412	Reference	1.22	1.22	---	PASS
			30~1000	1.22	-67.61	≤-28.78	PASS
			1000~26500	1.22	-52.01	≤-28.78	PASS
		2437	Reference	1.03	1.03	---	PASS
			30~1000	1.03	-67.86	≤-28.97	PASS
			1000~26500	1.03	-53.84	≤-28.97	PASS
		2462	Reference	0.86	0.86	---	PASS
			30~1000	0.86	-67.67	≤-29.14	PASS
			1000~26500	0.86	-52.98	≤-29.14	PASS
11N20SISO	Ant1	2412	Reference	1.13	1.13	---	PASS
			30~1000	1.13	-58.93	≤-28.87	PASS
			1000~26500	1.13	-53.56	≤-28.87	PASS
		2437	Reference	1.14	1.14	---	PASS
			30~1000	1.14	-59.27	≤-28.86	PASS
			1000~26500	1.14	-53.83	≤-28.86	PASS
		2462	Reference	0.77	0.77	---	PASS
			30~1000	0.77	-60.58	≤-29.23	PASS
			1000~26500	0.77	-53.85	≤-29.23	PASS

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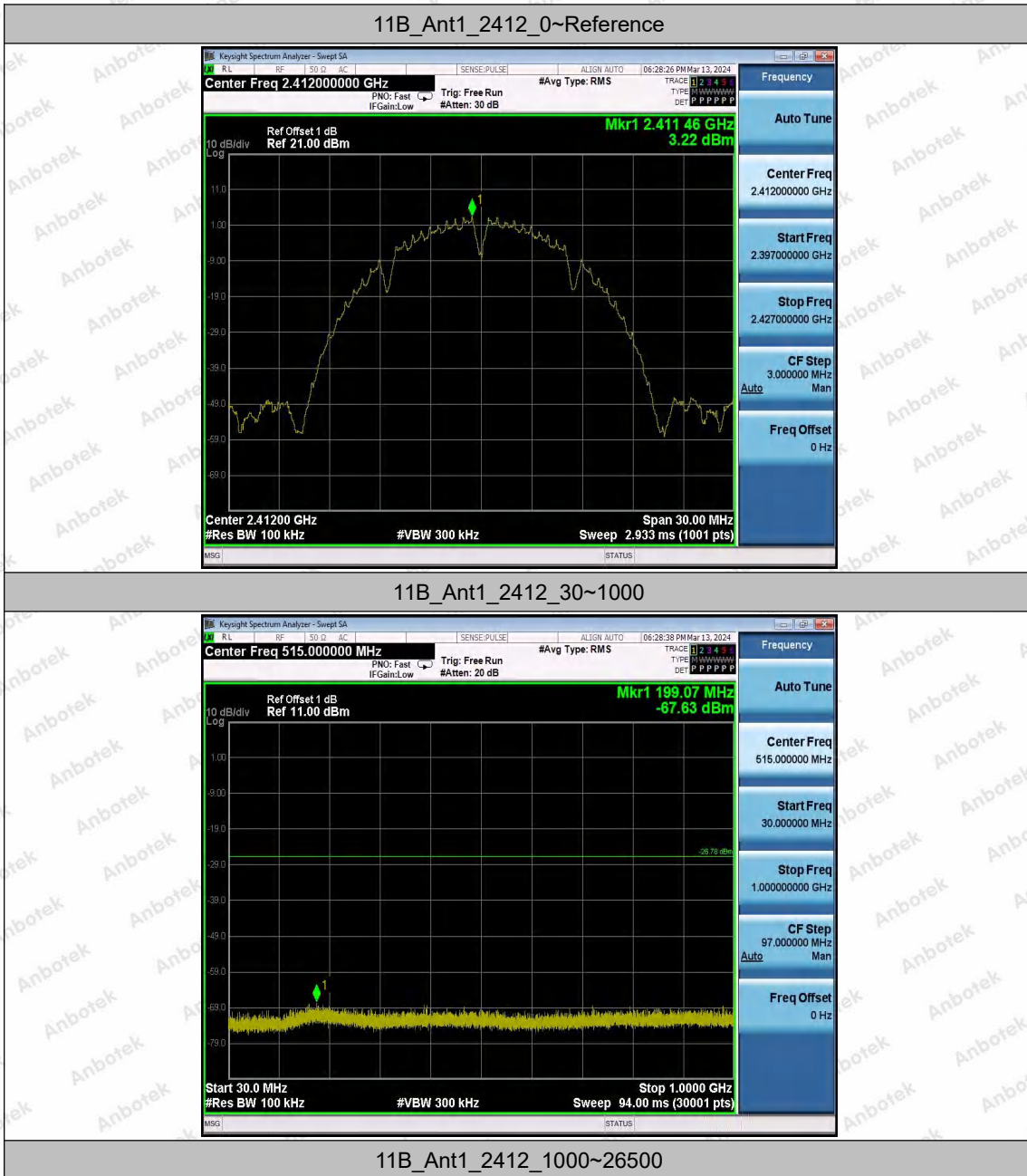
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Test Graphs



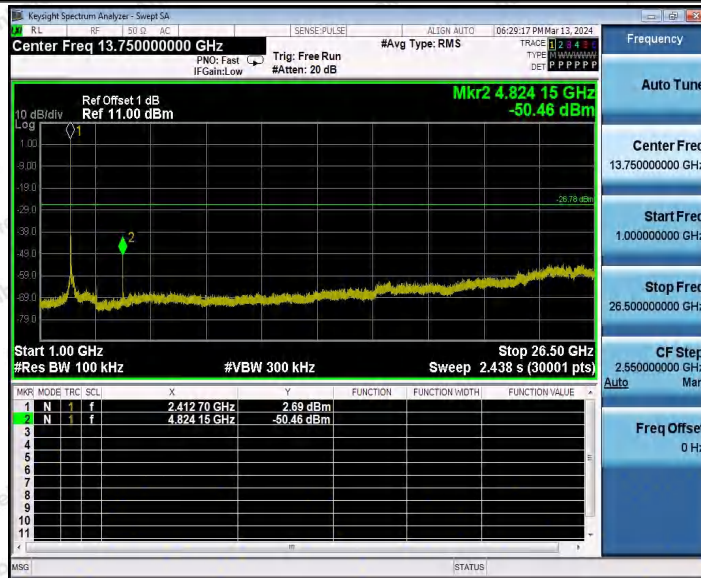
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

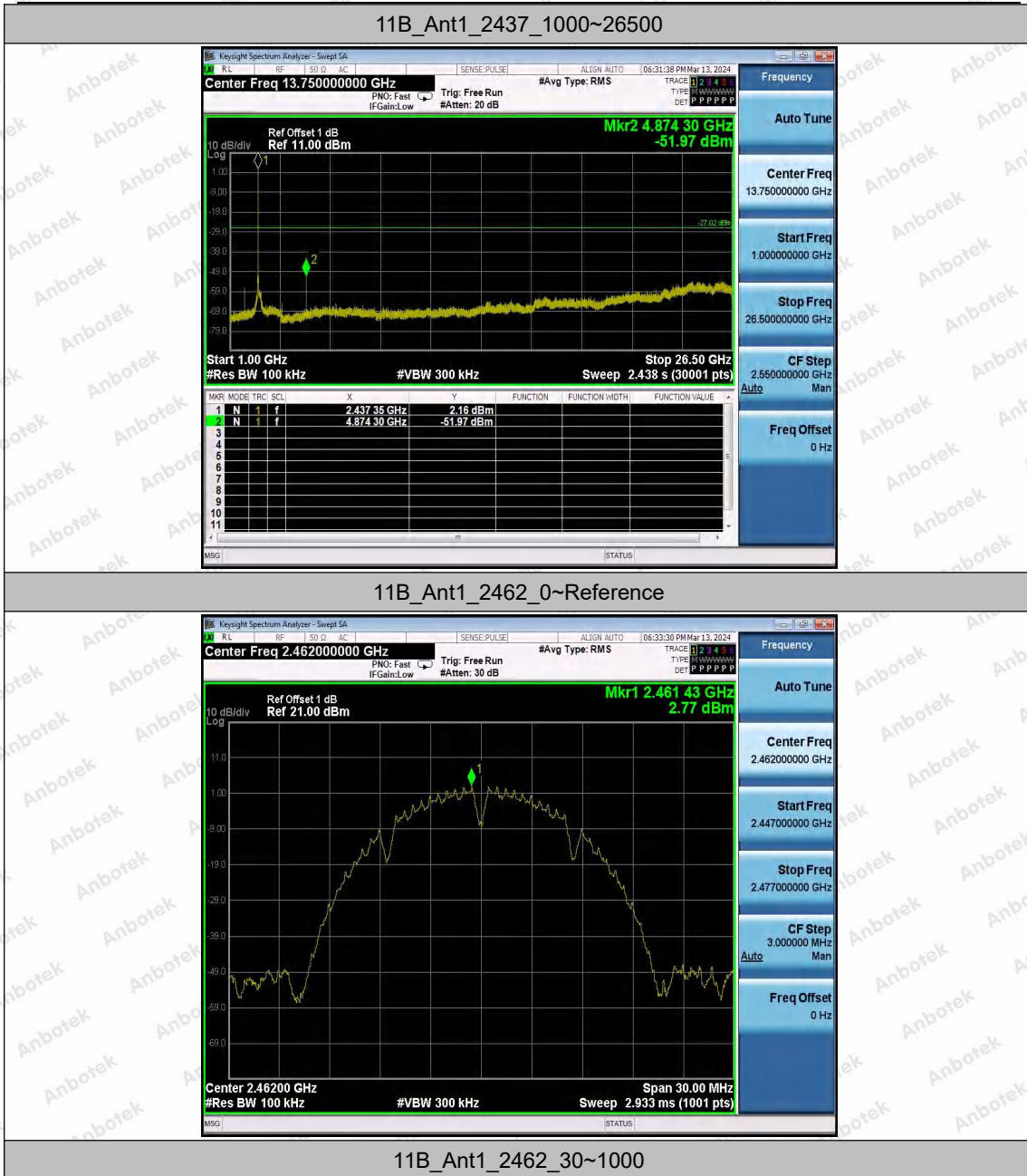


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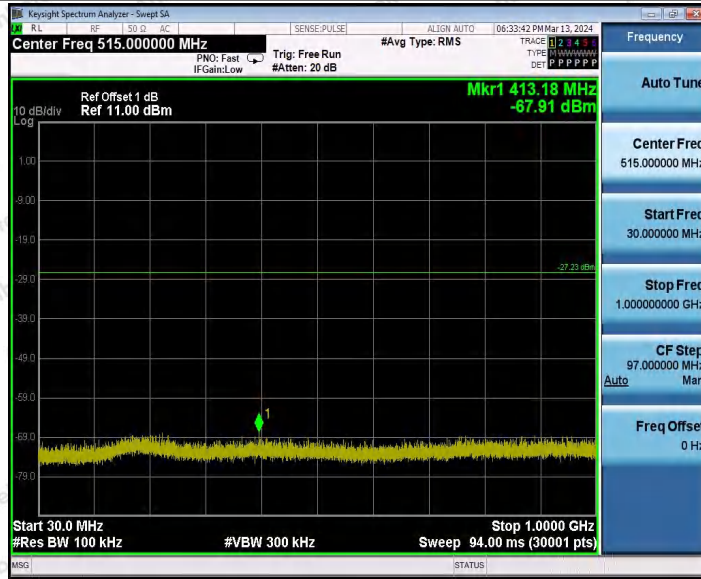


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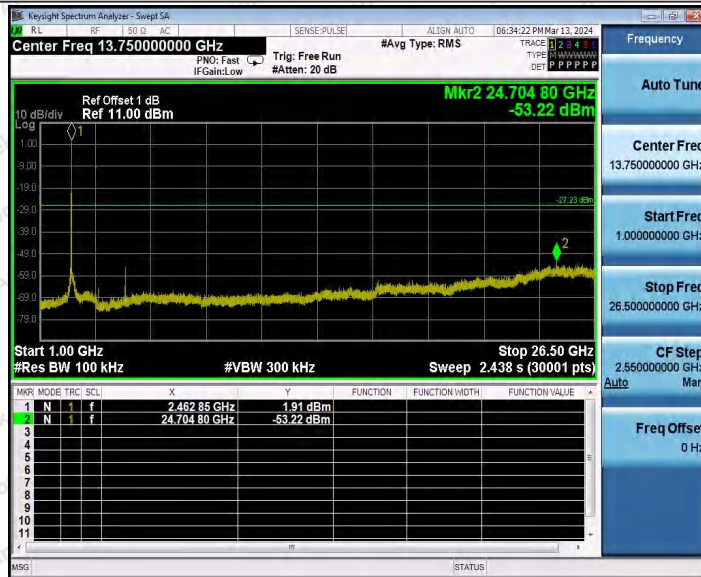
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11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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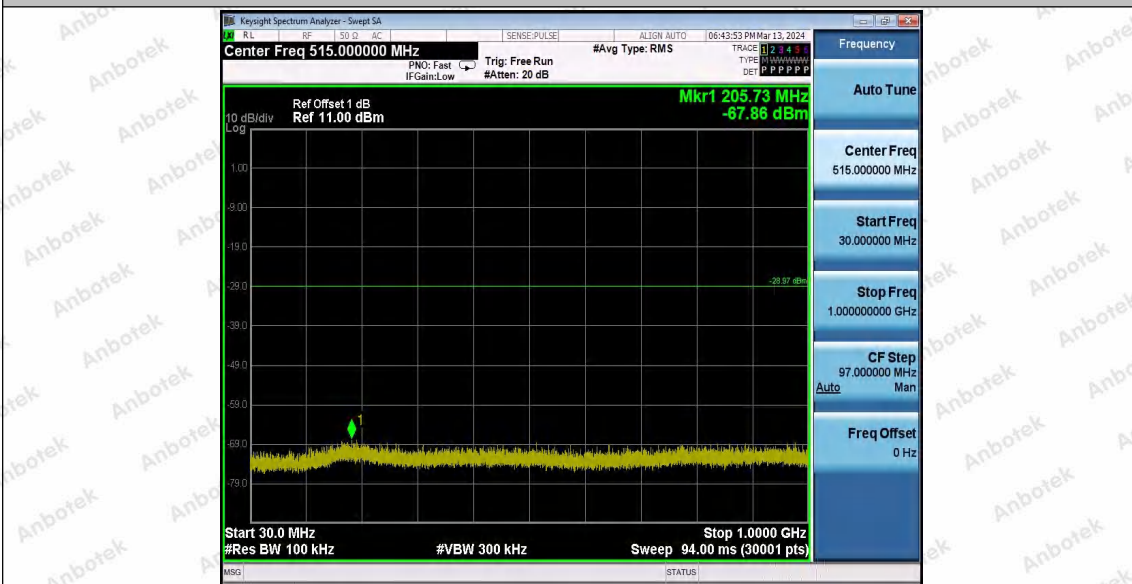
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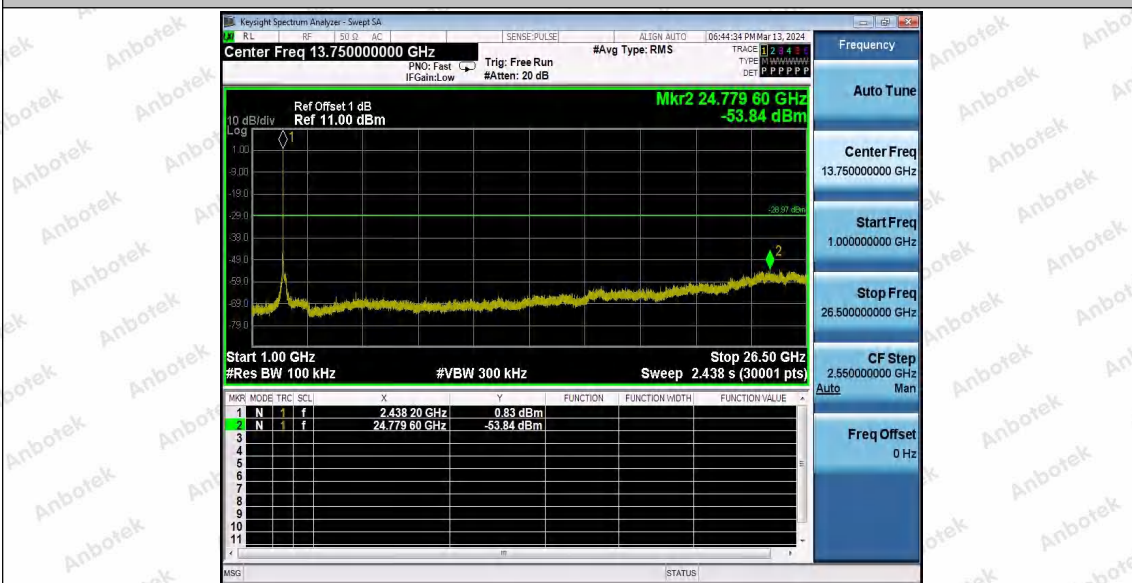




11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500

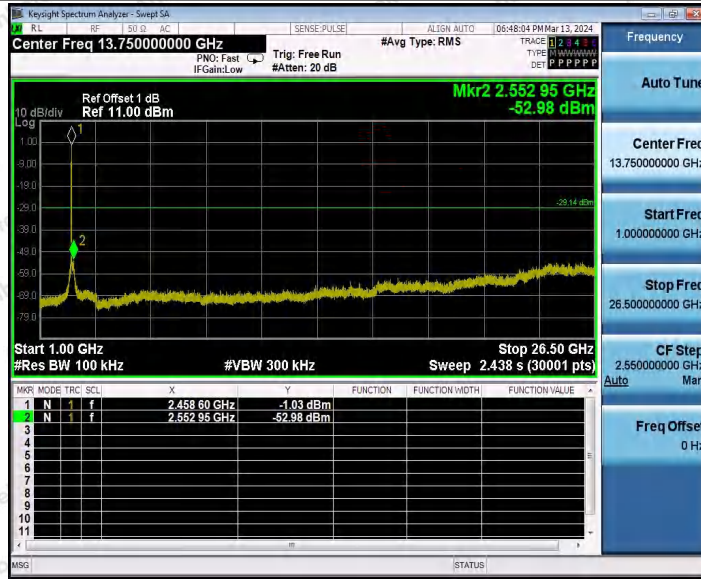
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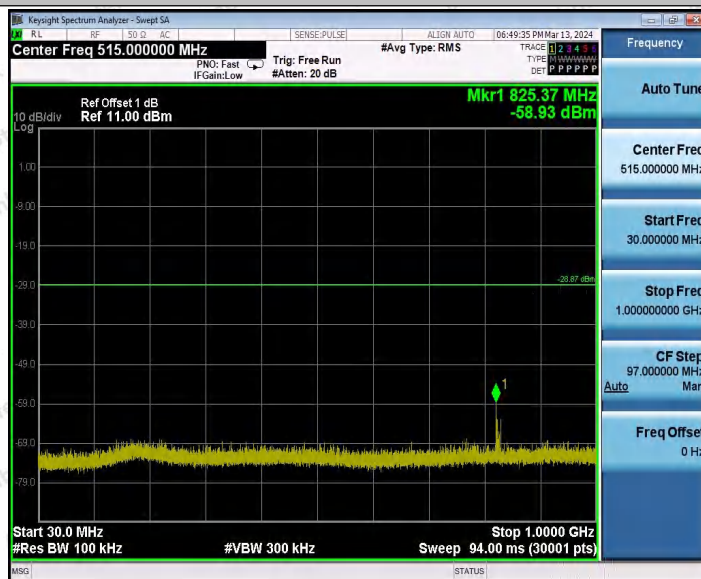




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11N20SISO_Ant1_2412_30~1000



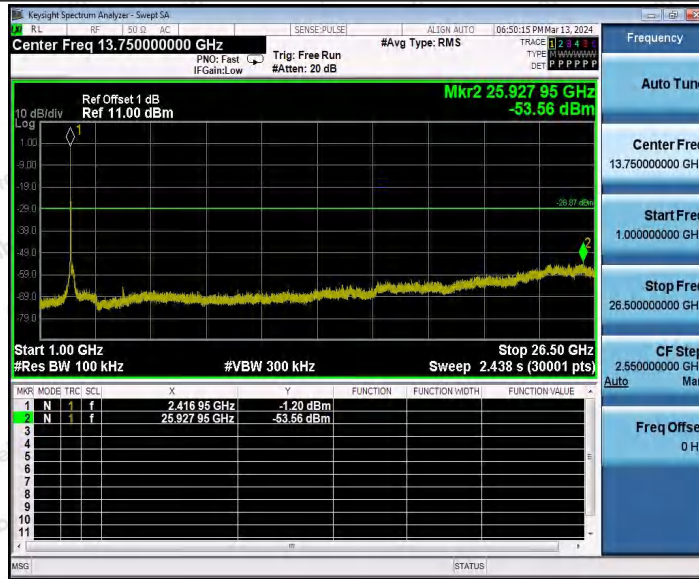
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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



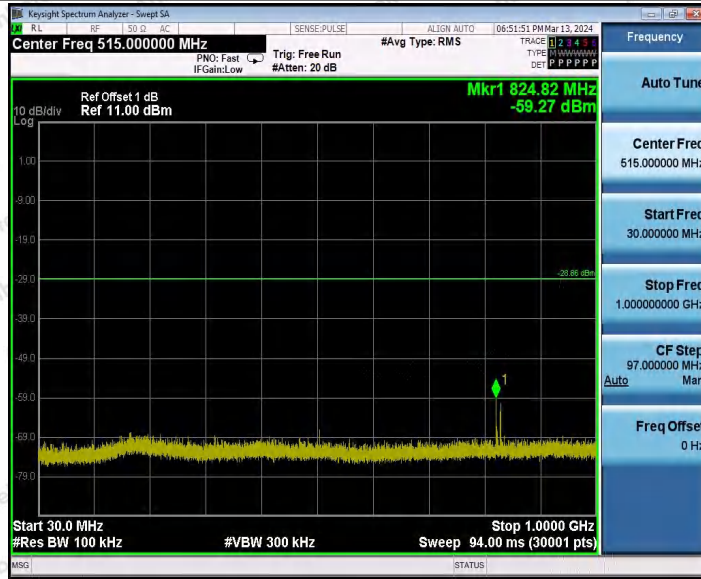
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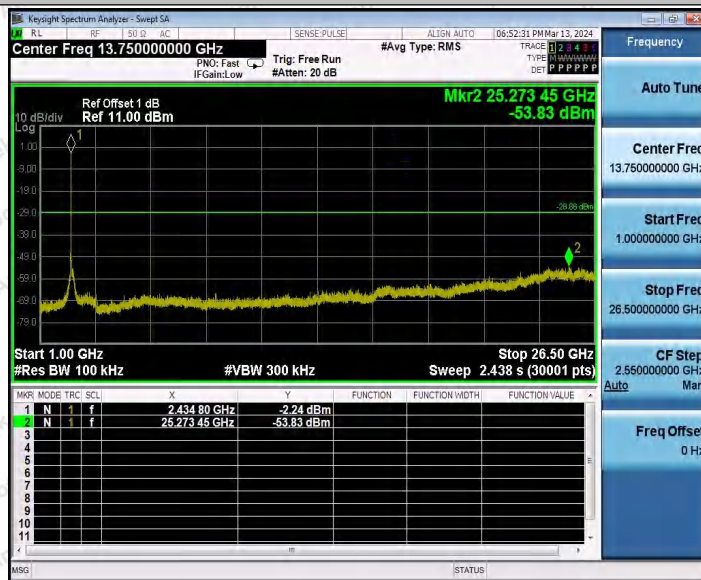
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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference

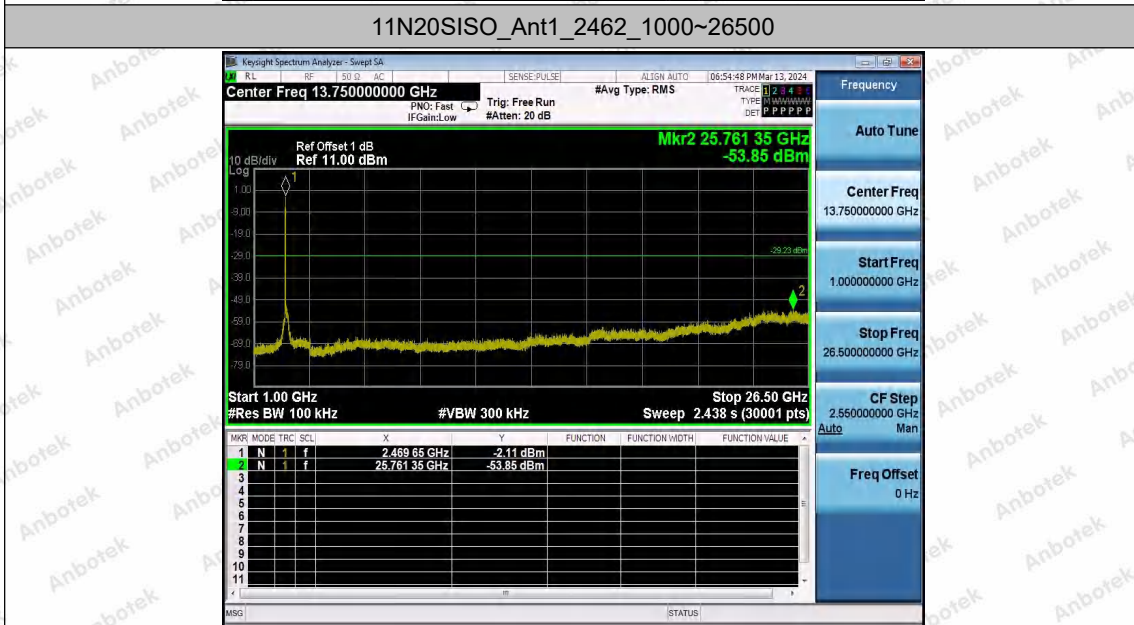
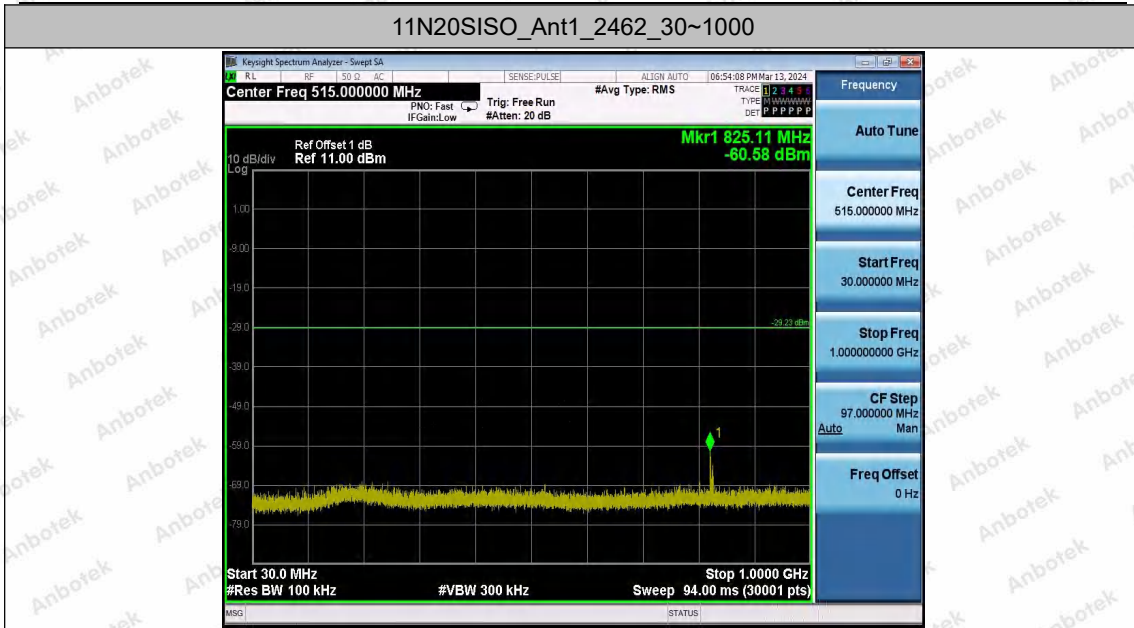


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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.38	8.42	99.52	0.02
		2437	8.37	8.41	99.52	0.02
		2462	8.40	8.42	99.76	0.01
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
11N20SISO	Ant1	2412	1.30	1.33	97.74	0.10
		2437	1.29	1.33	96.99	0.13
		2462	1.30	1.34	97.01	0.13

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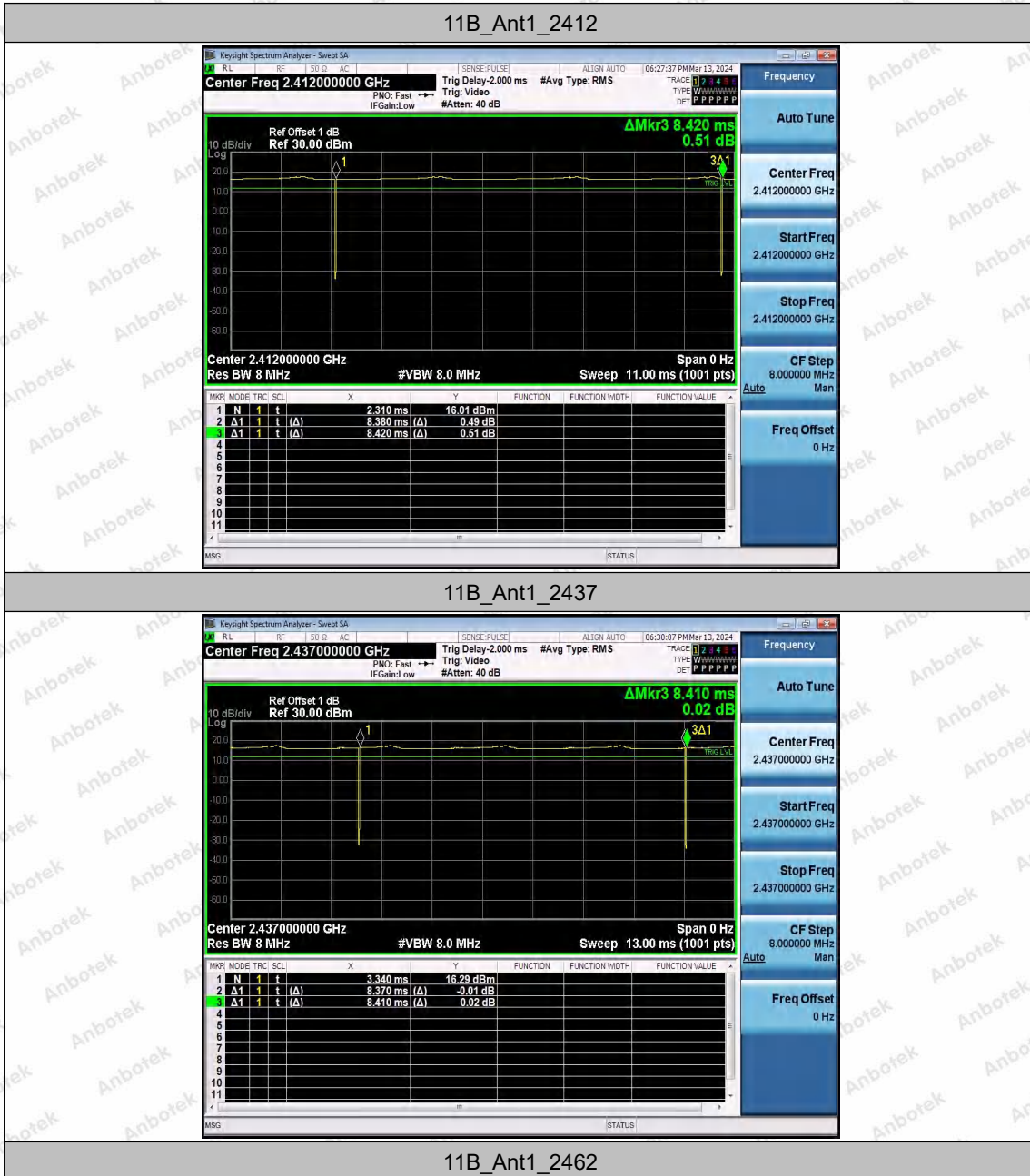
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Test Graphs

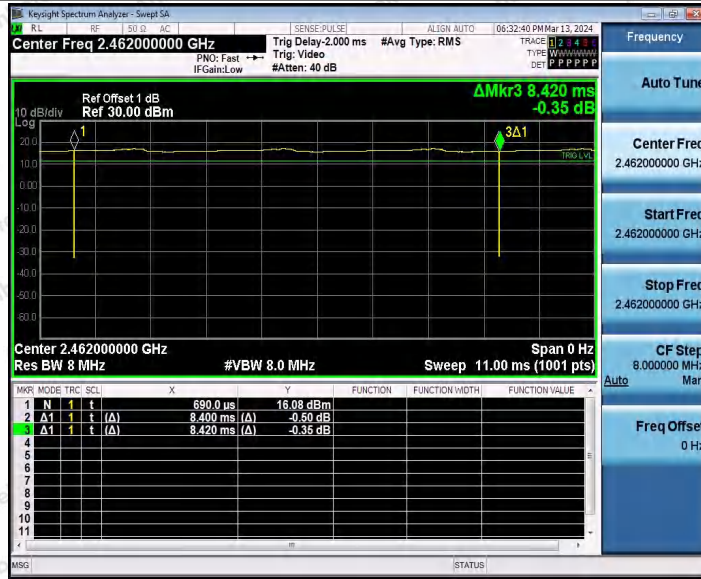


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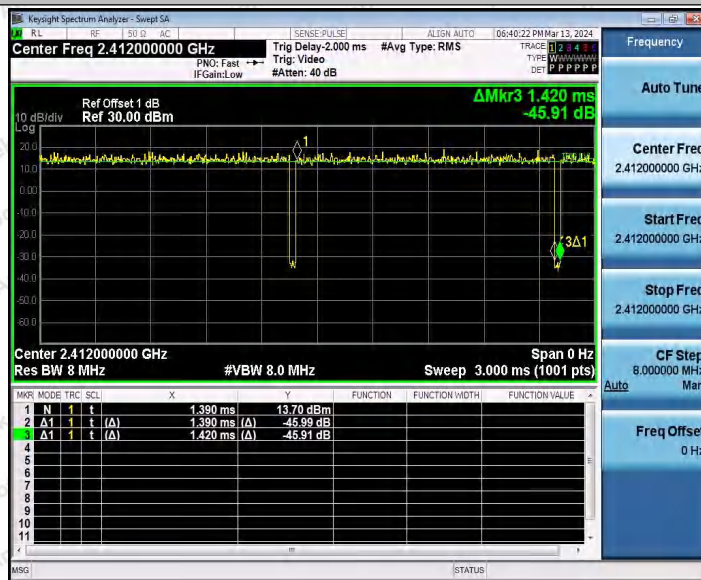
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

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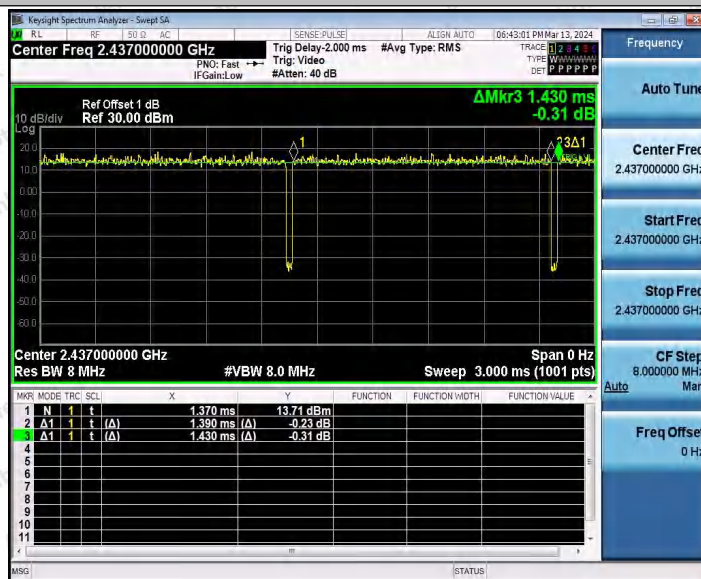




11G_Ant1_2412



11G_Ant1_2437

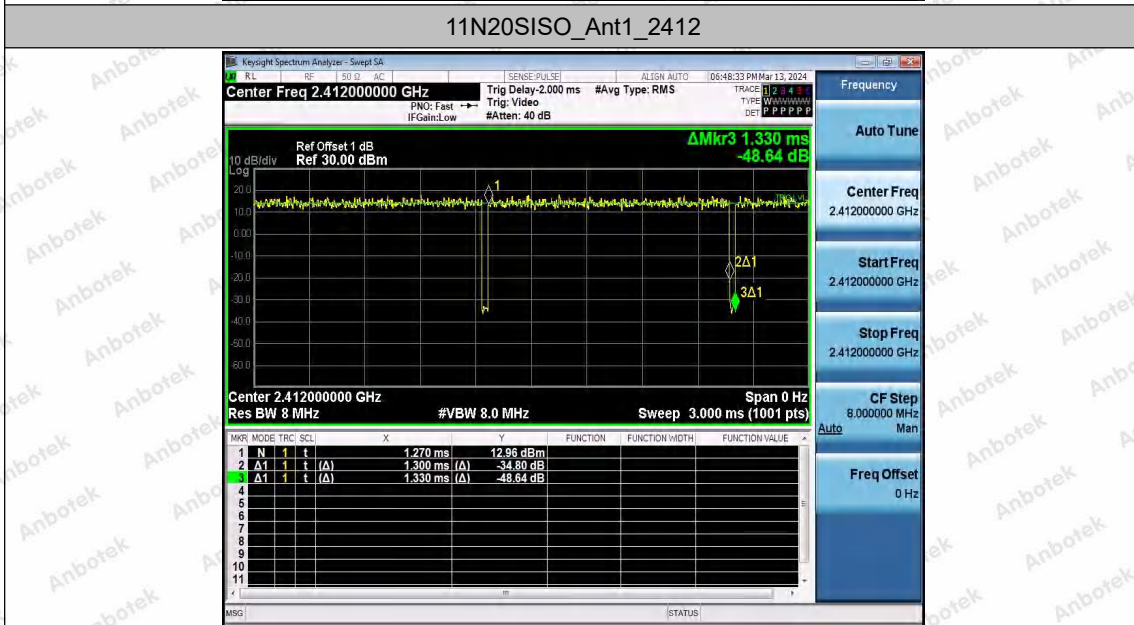
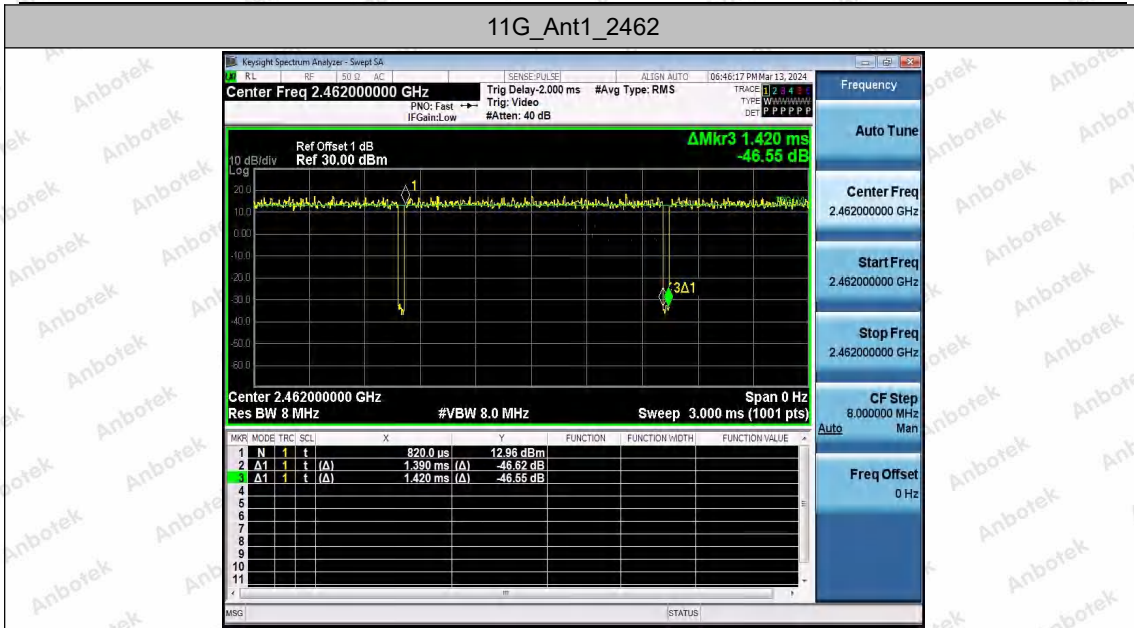


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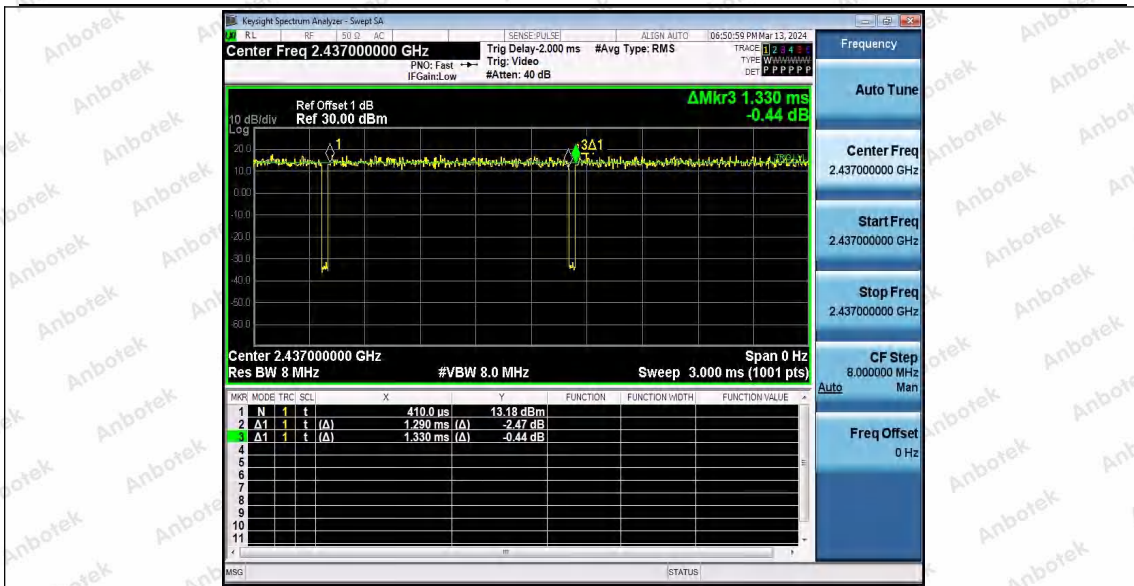
11N20SISO_Ant1_2437

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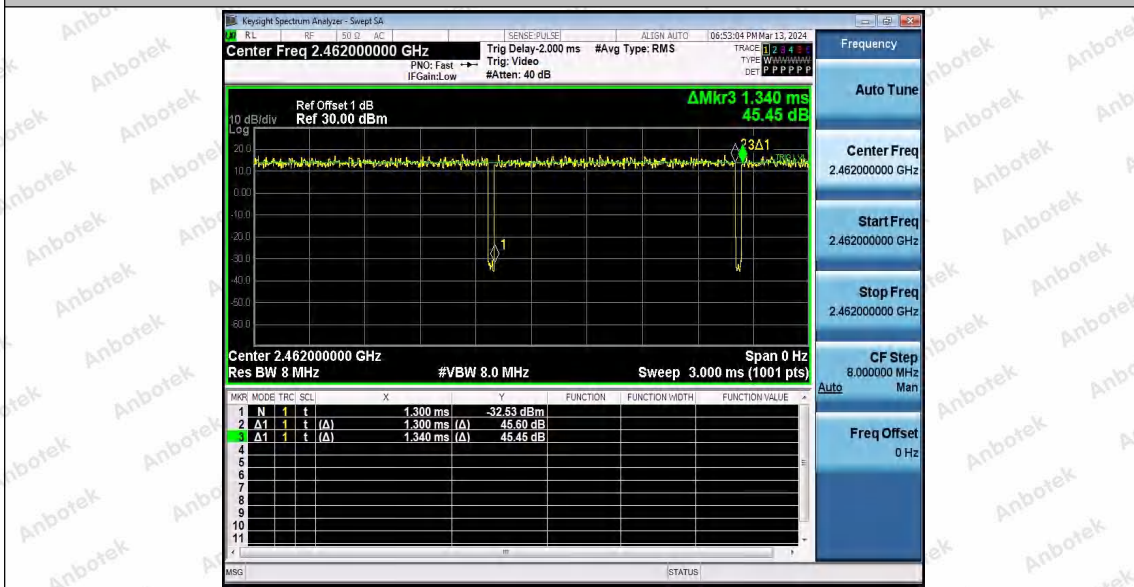
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11N20SISO_Ant1_2462



---END---

