

Appendix Test Data

Report No:	18220WC30244203	Test Sample NO:	1-2-2
Start Test Date:	2023.11.21	Finish Test Date:	2023.12.01
Test Engineer:	Hayman Chen	Auditor:	Rock Luo
Temperature:	25.3°C	Relative Humidity:	45%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.000	2408.000	2416.000	0.5	PASS
		2437	9.000	2432.480	2441.480	0.5	PASS
		2462	9.040	2457.480	2466.520	0.5	PASS
11G	Ant1	2412	15.040	2404.480	2419.520	0.5	PASS
		2437	13.880	2430.360	2444.240	0.5	PASS
		2462	13.880	2455.680	2469.560	0.5	PASS
11N20SISO	Ant1	2412	16.280	2404.080	2420.360	0.5	PASS
		2437	16.360	2429.040	2445.400	0.5	PASS
		2462	15.000	2454.520	2469.520	0.5	PASS

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Test Graphs



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11G_Ant1_2412



11G_Ant1_2437



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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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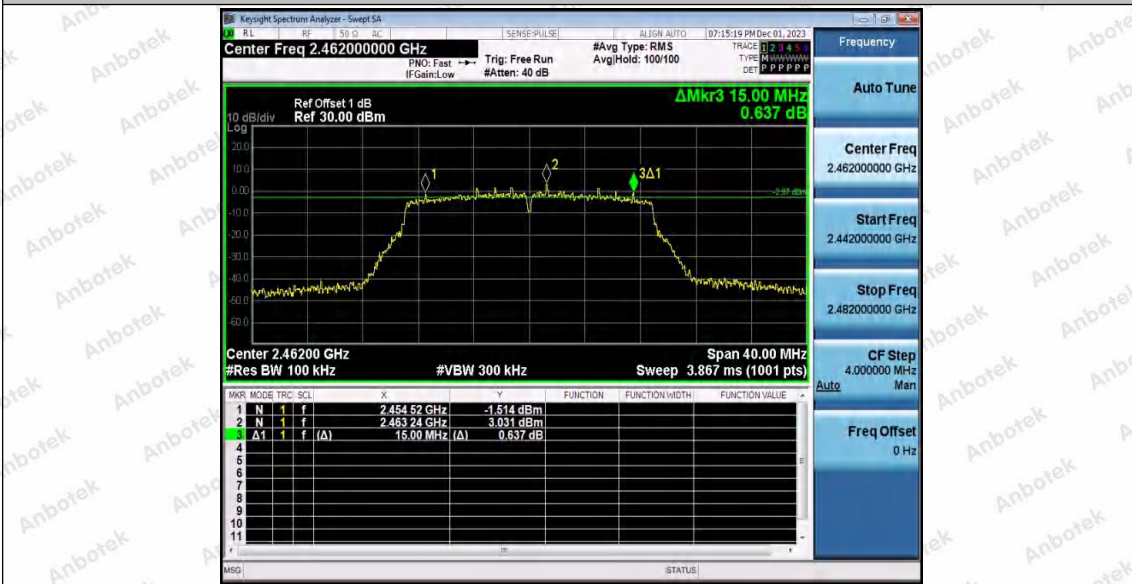
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11N20SISO_Ant1_2462



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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	11.781	2406.1531	2417.9341	---	---
		2437	11.758	2431.1531	2442.9111	---	---
		2462	11.806	2456.1283	2467.9343	---	---
11G	Ant1	2412	16.838	2403.6027	2420.4407	---	---
		2437	16.899	2428.5719	2445.4709	---	---
		2462	16.816	2453.5819	2470.3979	---	---
11N20SISO	Ant1	2412	17.966	2403.0548	2421.0208	---	---
		2437	17.906	2428.0769	2445.9829	---	---
		2462	17.921	2453.0468	2470.9678	---	---

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11G_Ant1_2412



11G_Ant1_2437



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11N20SISO_Ant1_2462



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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	18.84	≤30.00
		2437	18.48	≤30.00
		2462	18.79	≤30.00
11G	Ant1	2412	18.66	≤30.00
		2437	18.19	≤30.00
		2462	18.56	≤30.00
11N20SISO	Ant1	2412	18.66	≤30.00
		2437	18.17	≤30.00
		2462	18.47	≤30.00

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



Test Graphs



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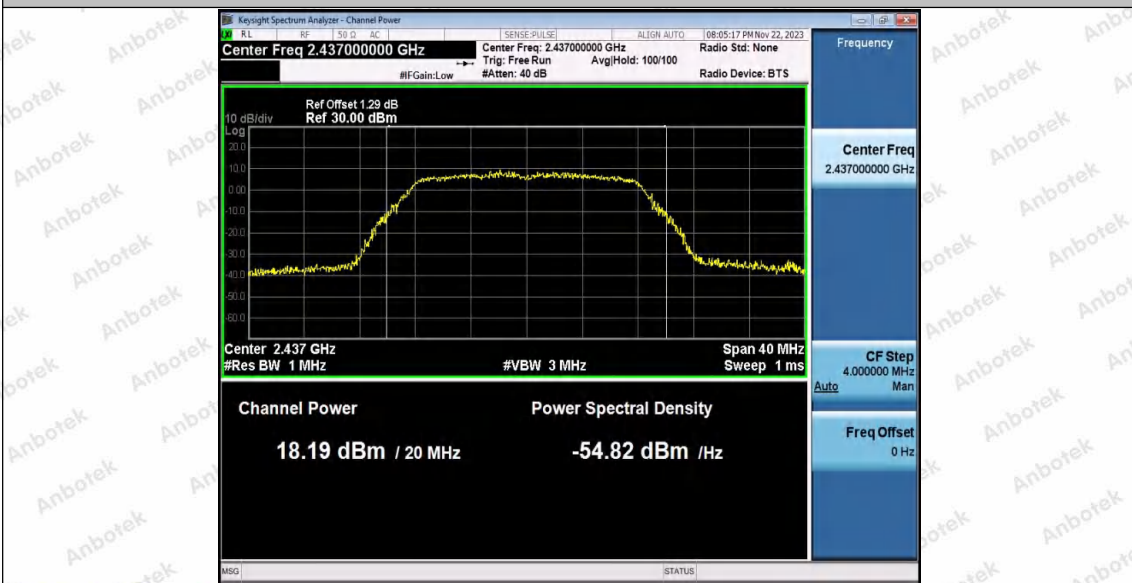




11G_Ant1_2412



11G_Ant1_2437

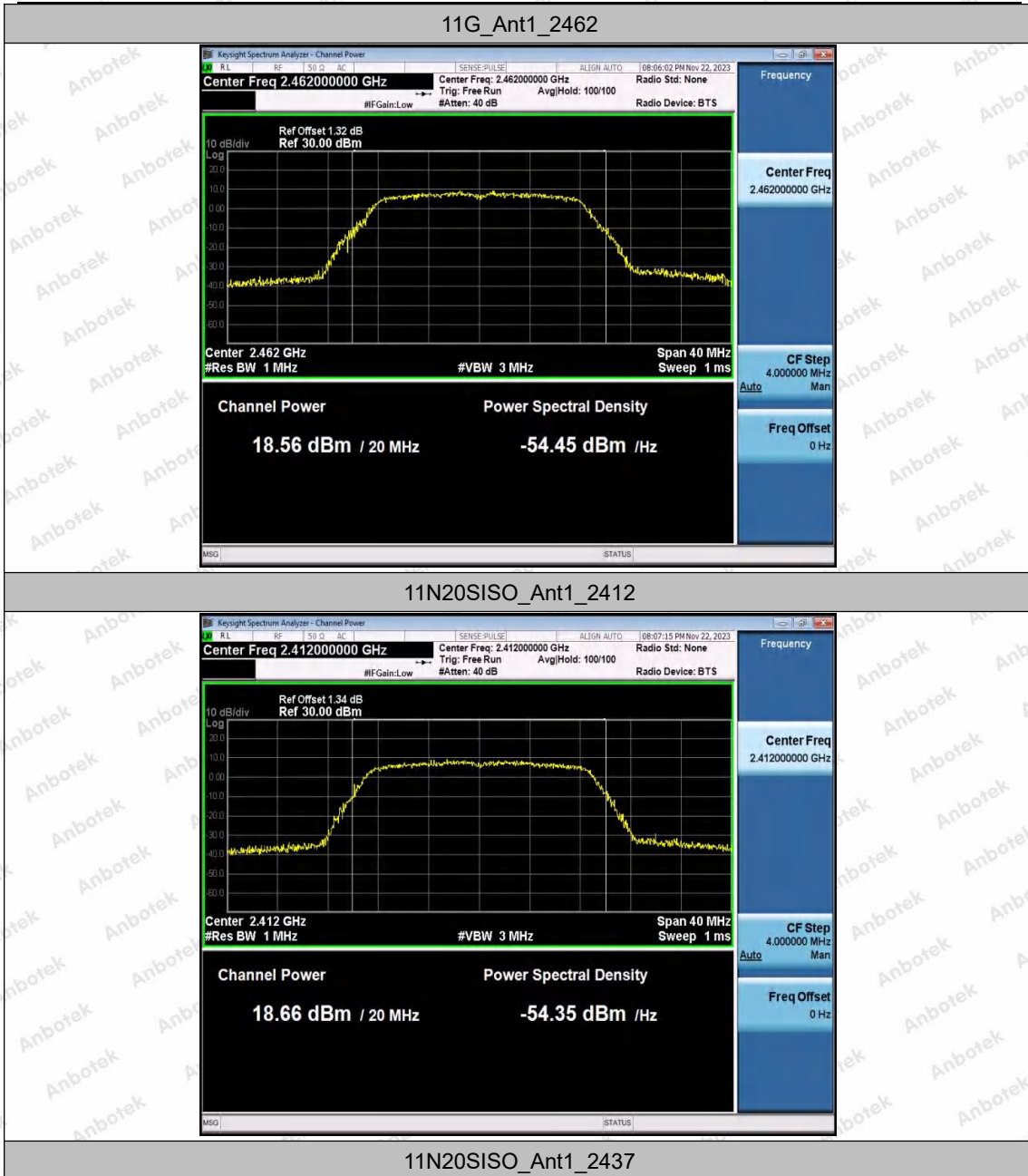


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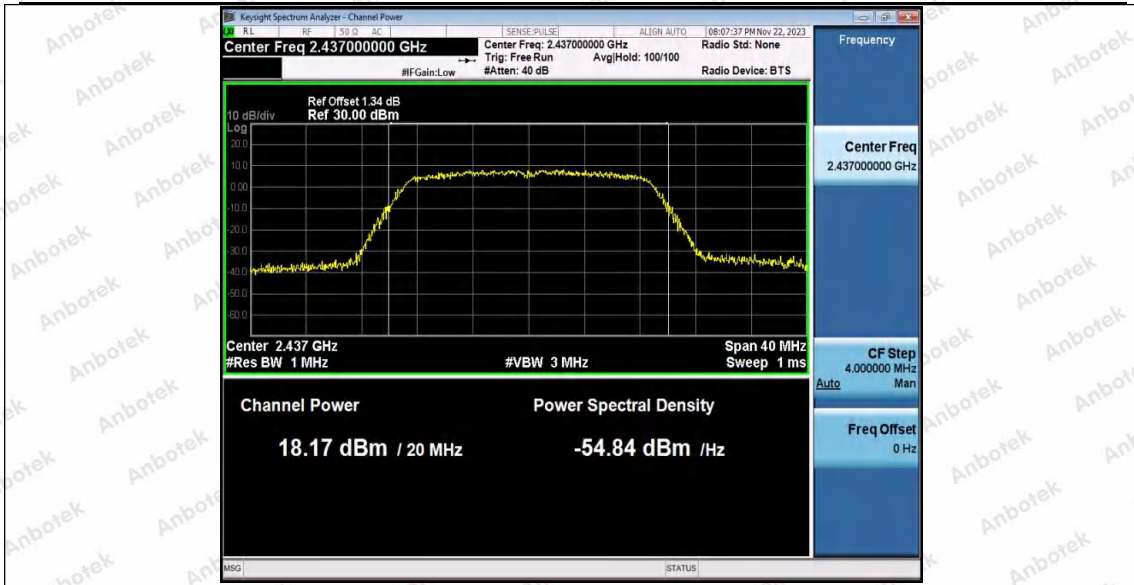


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11N20SISO_Ant1_2462



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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	-13.42	≤8.00	PASS
		2437	-14.13	≤8.00	PASS
		2462	-12.75	≤8.00	PASS
11G	Ant1	2412	-16.86	≤8.00	PASS
		2437	-16.74	≤8.00	PASS
		2462	-17.03	≤8.00	PASS
11N20SISO	Ant1	2412	-19.01	≤8.00	PASS
		2437	-18.98	≤8.00	PASS
		2462	-18.83	≤8.00	PASS

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



Test Graphs



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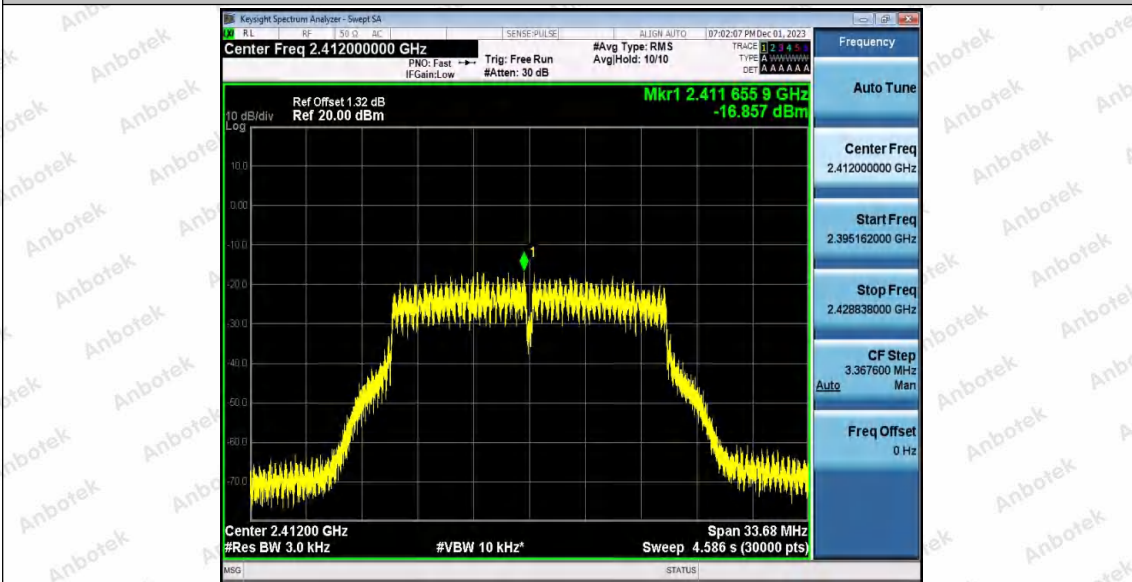
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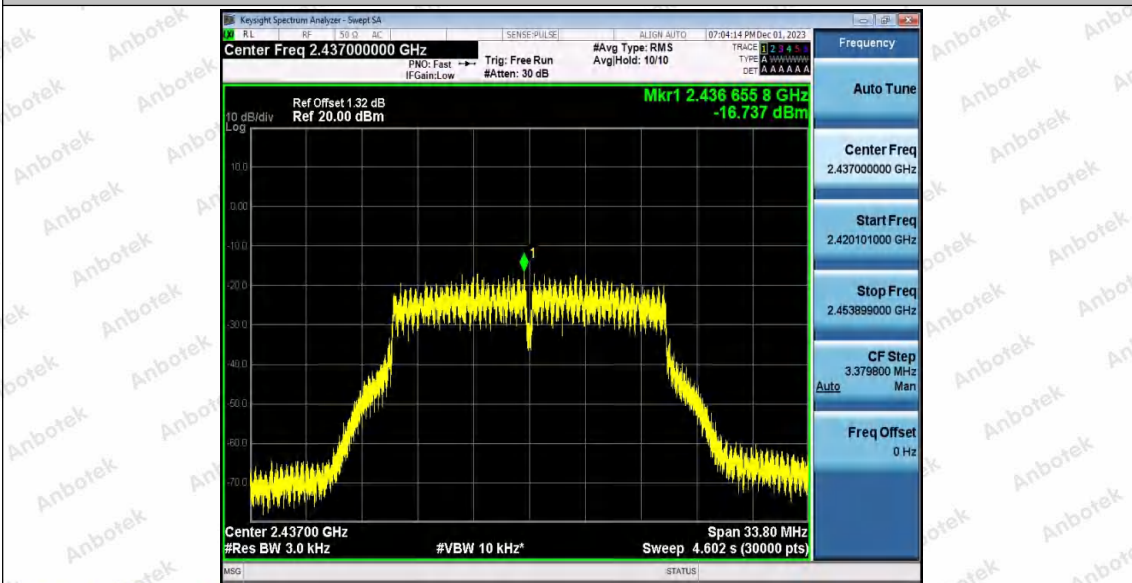




11G_Ant1_2412



11G_Ant1_2437



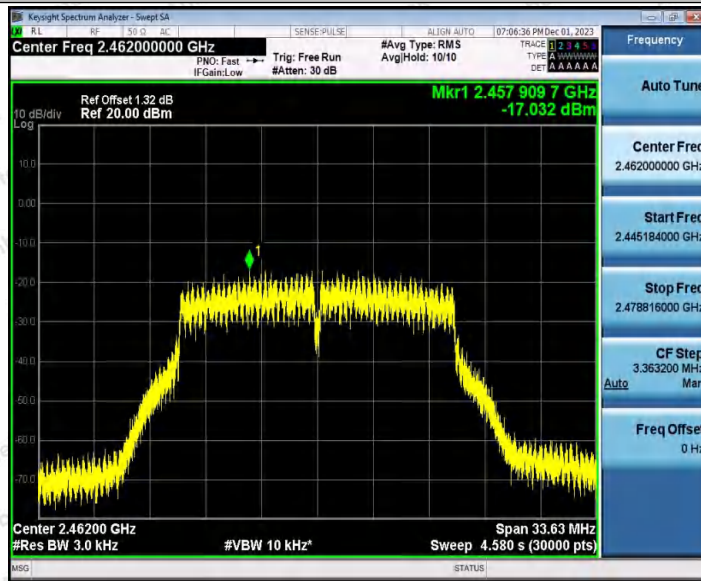
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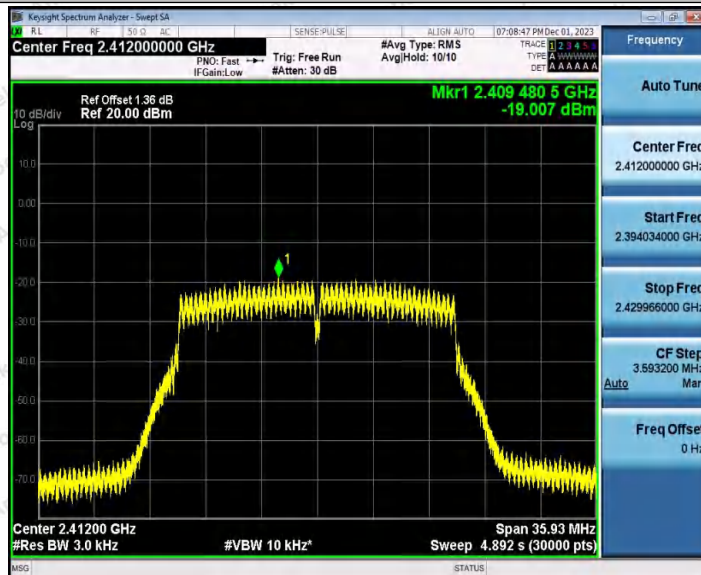
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11G_Ant1_2462



11N20SISO_Ant1_2412



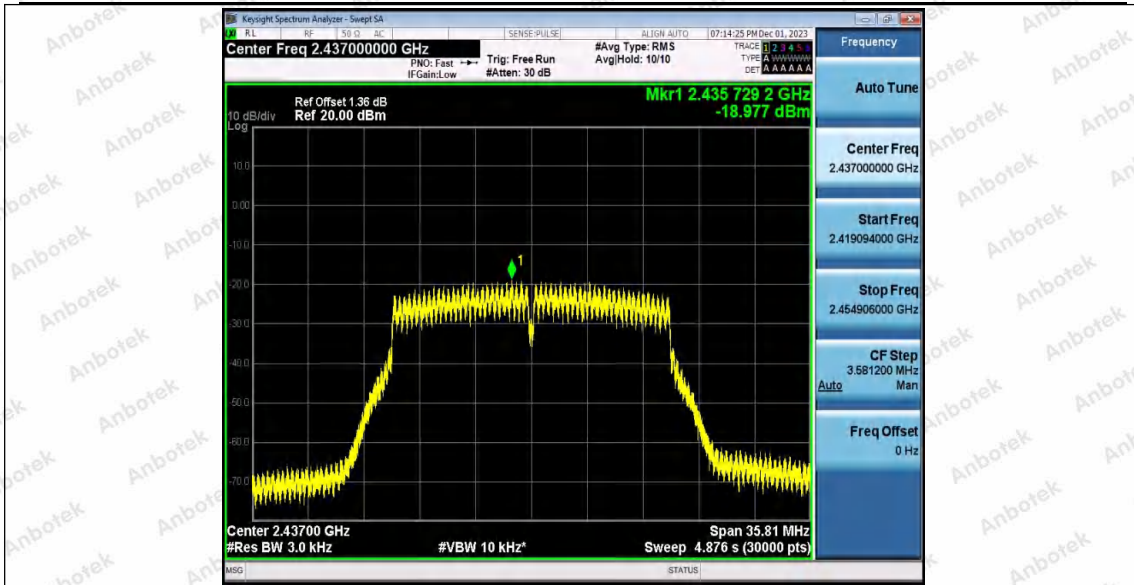
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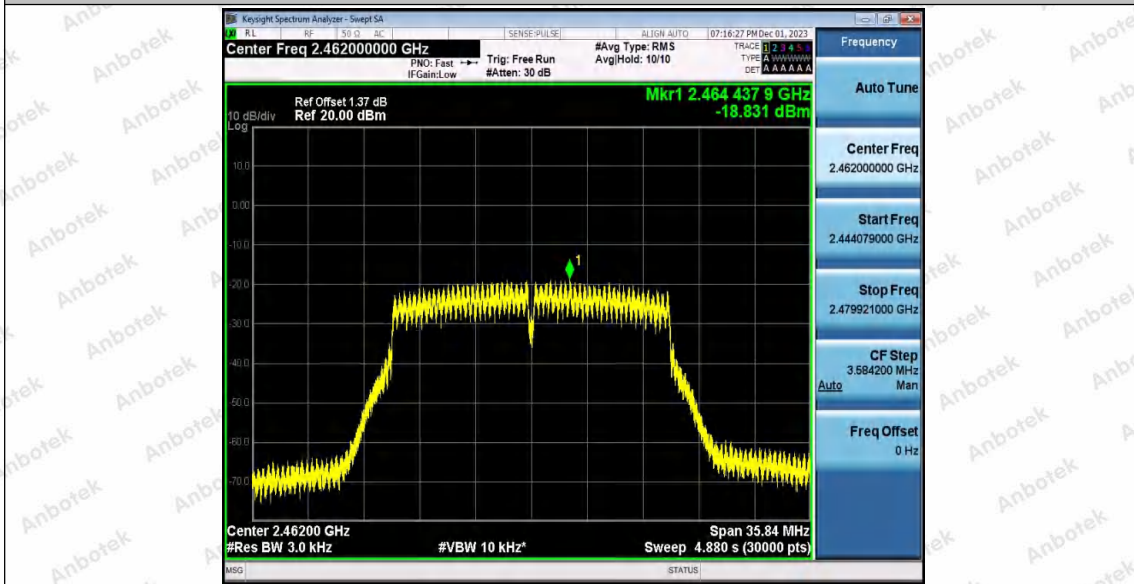
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Appendix E: Band edge measurements

Test Result

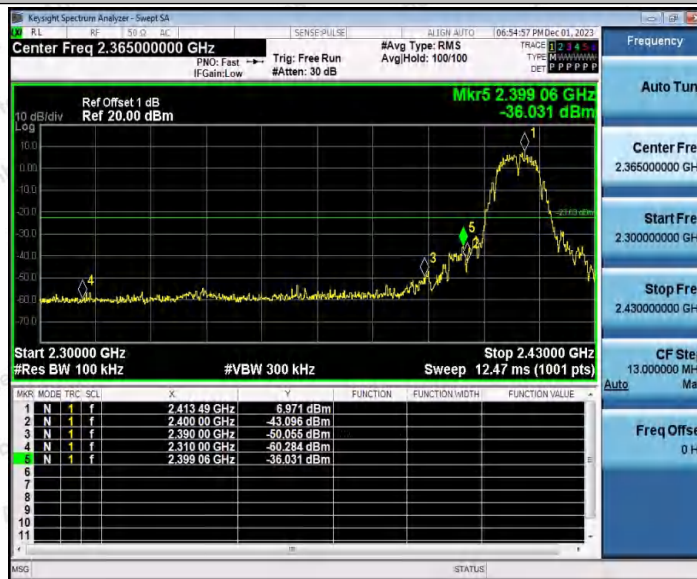
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.97	-36.03	≤-23.03	PASS
		High	2462	8.13	-48.51	≤-21.88	PASS
11G	Ant1	Low	2412	3.05	-43.26	≤-26.95	PASS
		High	2462	2.84	-47.6	≤-27.16	PASS
11N20SISO	Ant1	Low	2412	2.00	-42.24	≤-28	PASS
		High	2462	2.41	-46.2	≤-27.59	PASS

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



Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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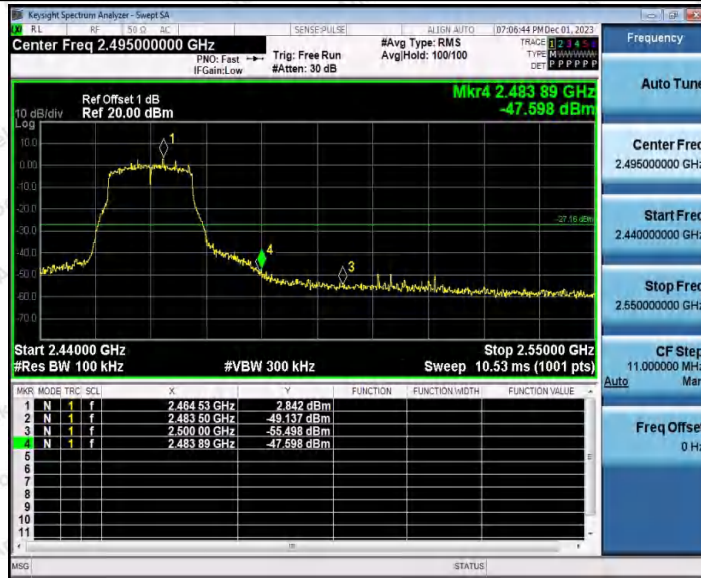
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

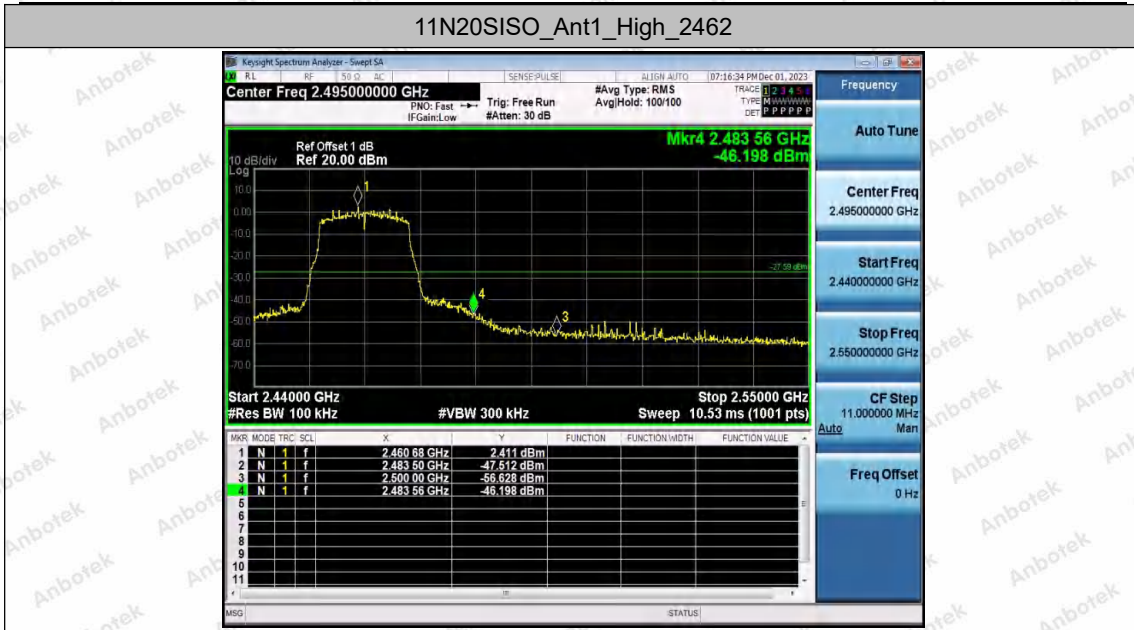


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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	7.14	7.14	---	PASS
			30~1000	7.14	-68.18	≤-22.86	PASS
			1000~26500	7.14	-41.25	≤-22.86	PASS
		2437	Reference	5.27	5.27	---	PASS
			30~1000	5.27	-68.16	≤-24.73	PASS
			1000~26500	5.27	-39.64	≤-24.73	PASS
		2462	Reference	7.55	7.55	---	PASS
			30~1000	7.55	-68.81	≤-22.45	PASS
			1000~26500	7.55	-36.54	≤-22.45	PASS
11G	Ant1	2412	Reference	2.07	2.07	---	PASS
			30~1000	2.07	-68.63	≤-27.93	PASS
			1000~26500	2.07	-52.07	≤-27.93	PASS
		2437	Reference	-0.82	-0.82	---	PASS
			30~1000	-0.82	-69.14	≤-30.82	PASS
			1000~26500	-0.82	-52.13	≤-30.82	PASS
		2462	Reference	-0.35	-0.35	---	PASS
			30~1000	-0.35	-69	≤-30.35	PASS
			1000~26500	-0.35	-48.89	≤-30.35	PASS
11N20SISO	Ant1	2412	Reference	1.09	1.09	---	PASS
			30~1000	1.09	-68.42	≤-28.91	PASS
			1000~26500	1.09	-53.19	≤-28.91	PASS
		2437	Reference	-0.14	-0.14	---	PASS
			30~1000	-0.14	-67.66	≤-30.14	PASS
			1000~26500	-0.14	-50.01	≤-30.14	PASS
		2462	Reference	-1.72	-1.72	---	PASS
			30~1000	-1.72	-68.08	≤-31.72	PASS
			1000~26500	-1.72	-48.73	≤-31.72	PASS

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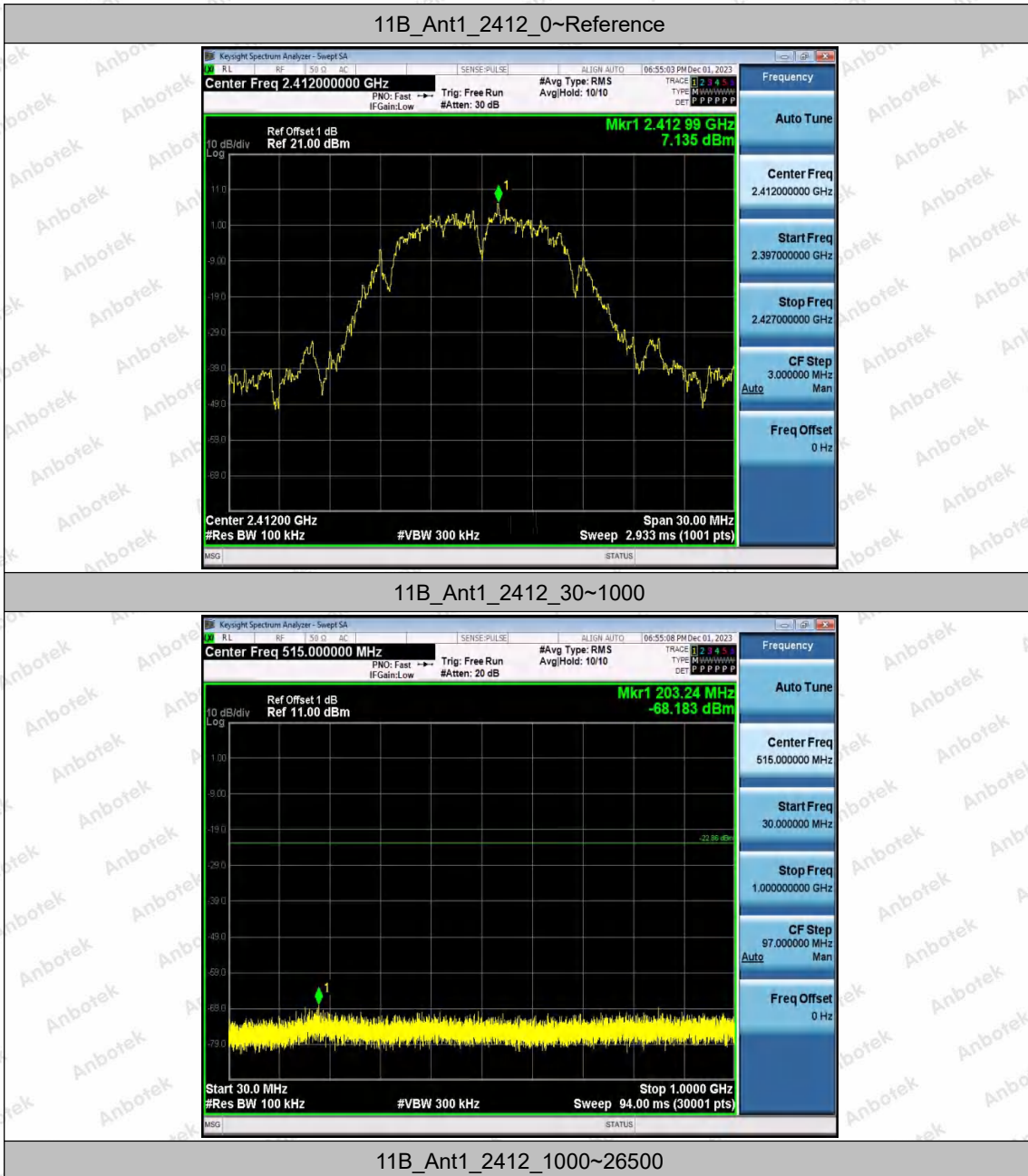
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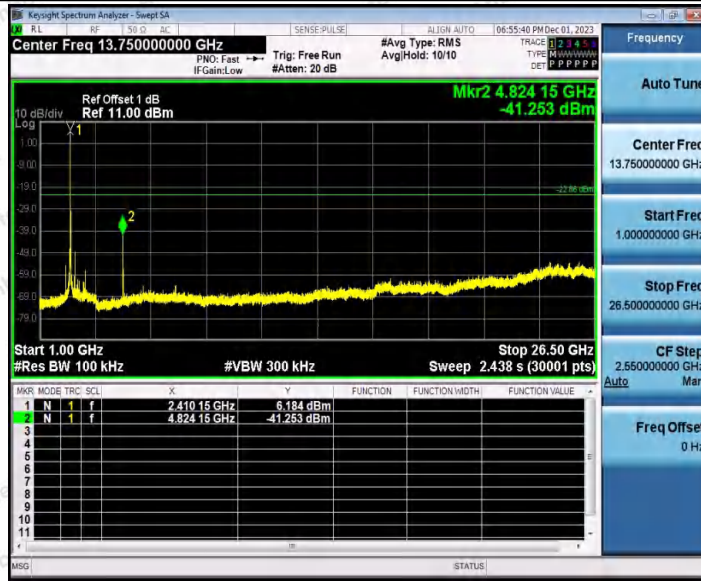


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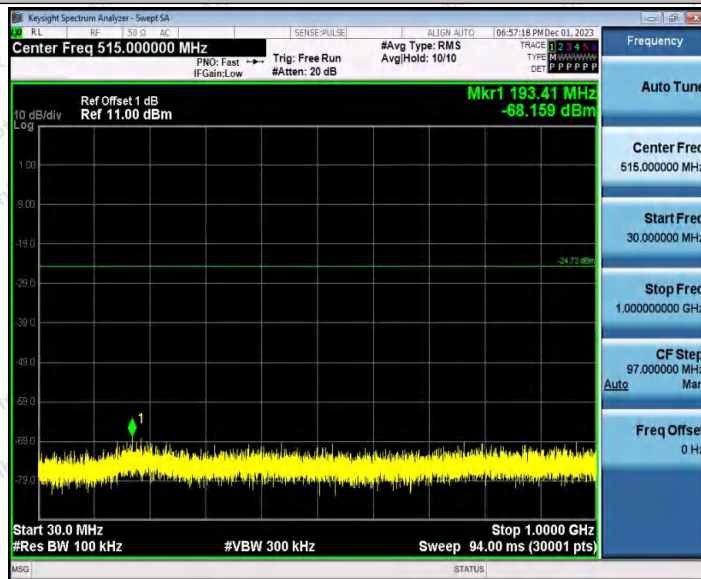




11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



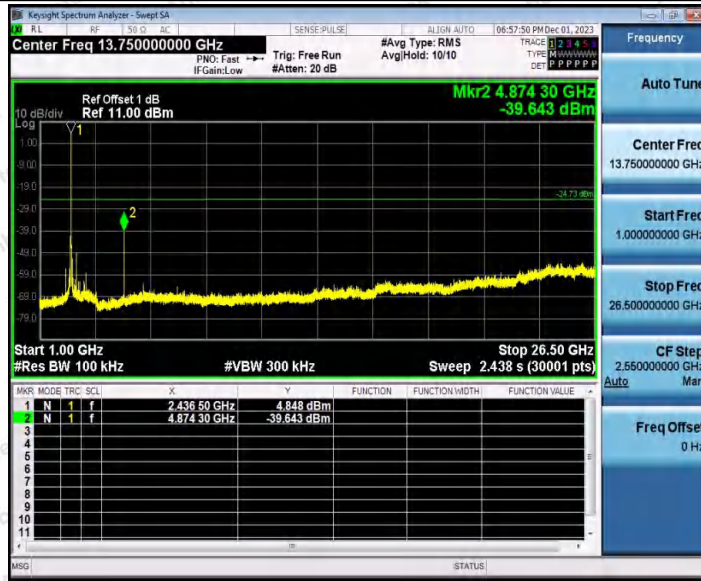
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



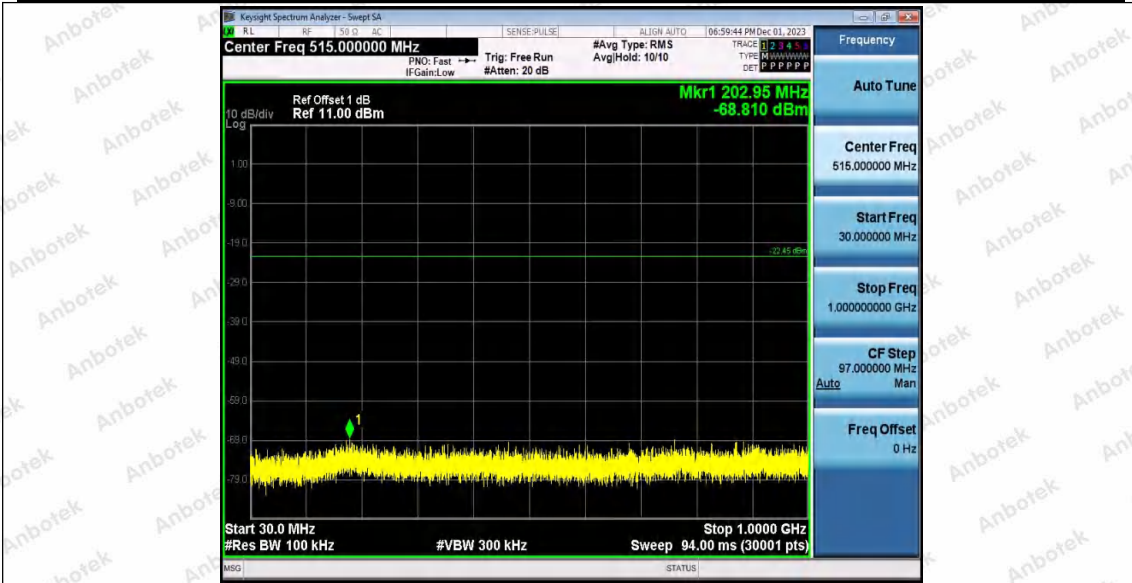
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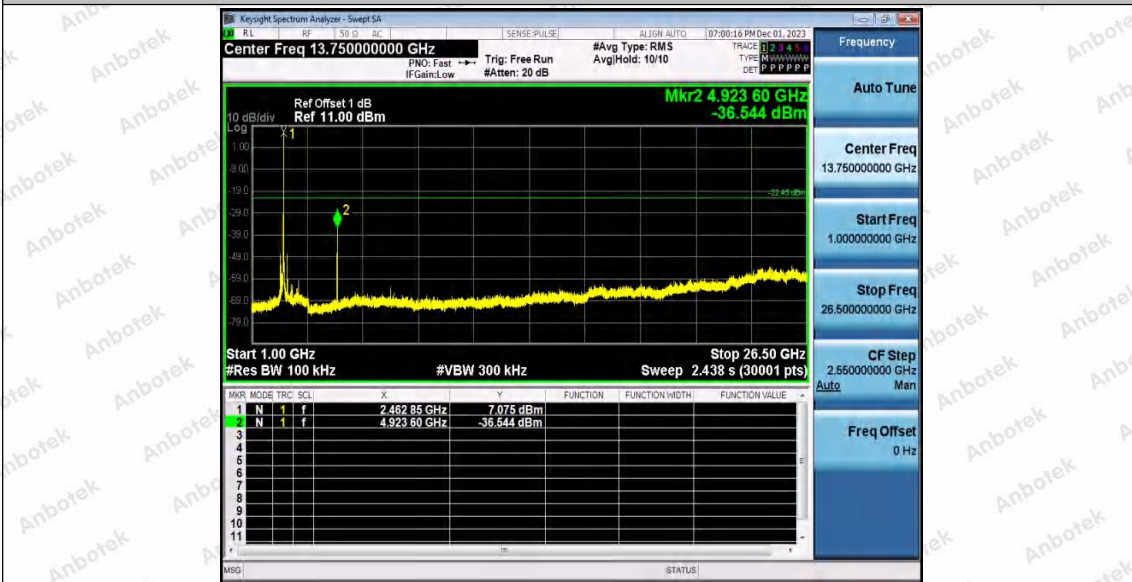
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11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



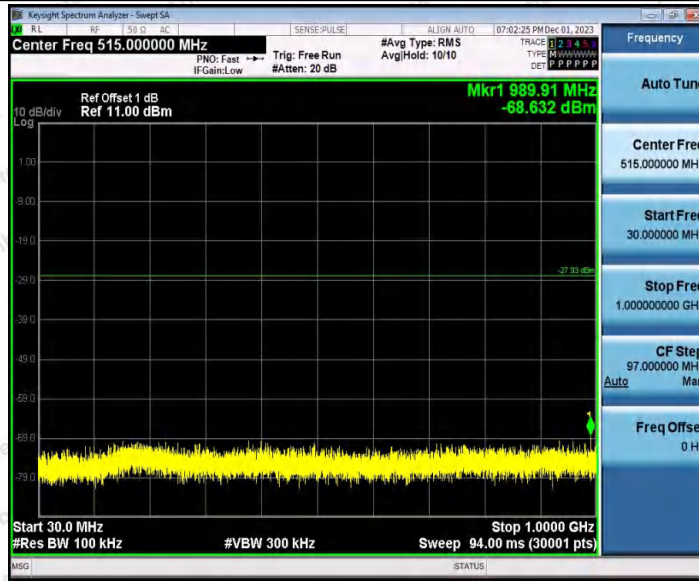
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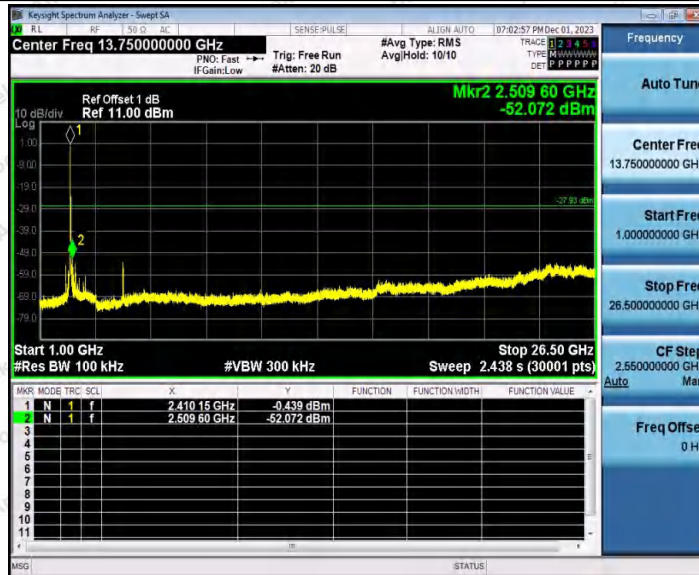
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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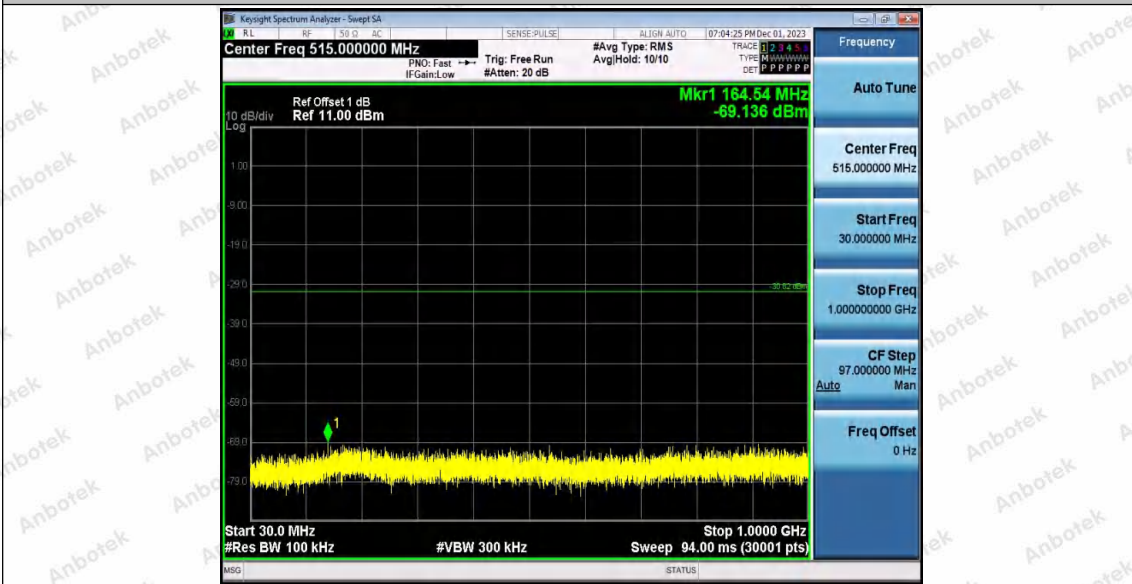
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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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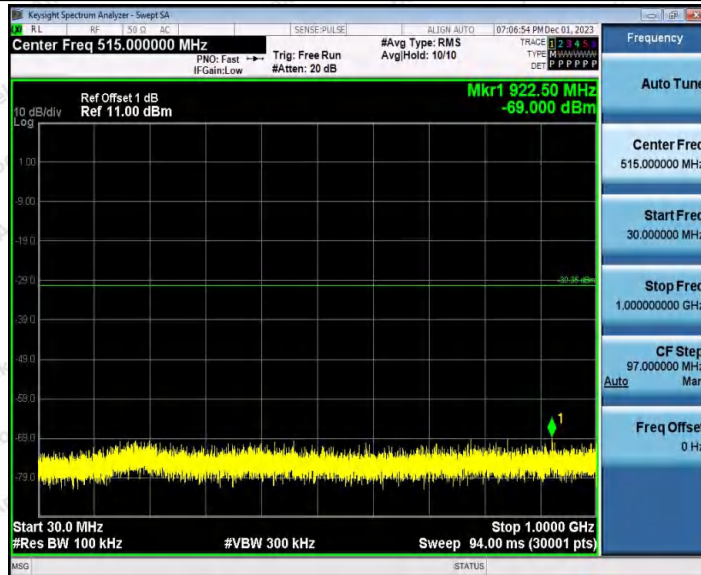
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500

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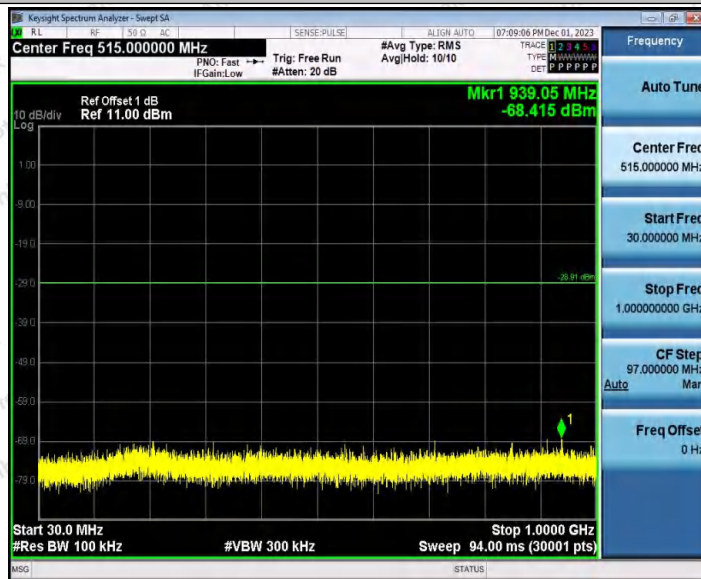




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11N20SISO_Ant1_2412_30~1000



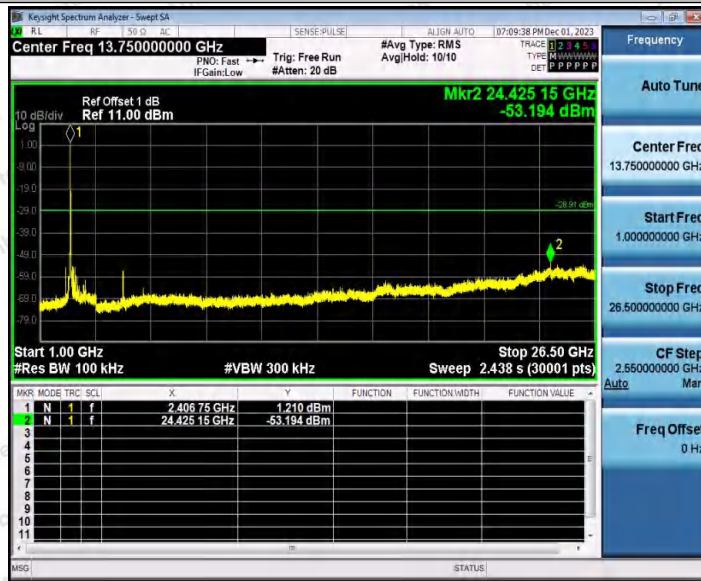
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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



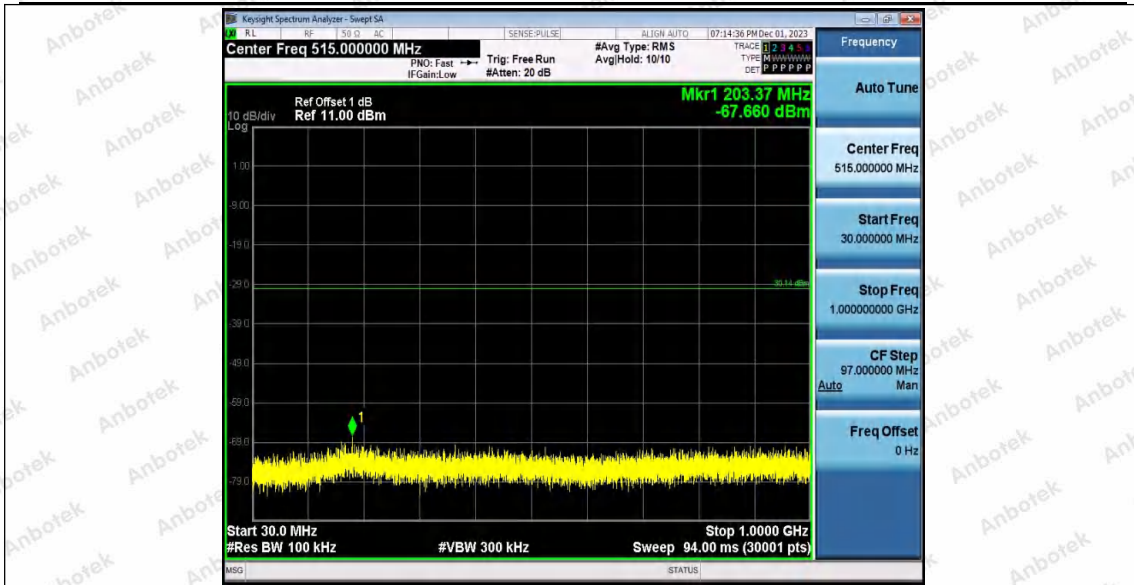
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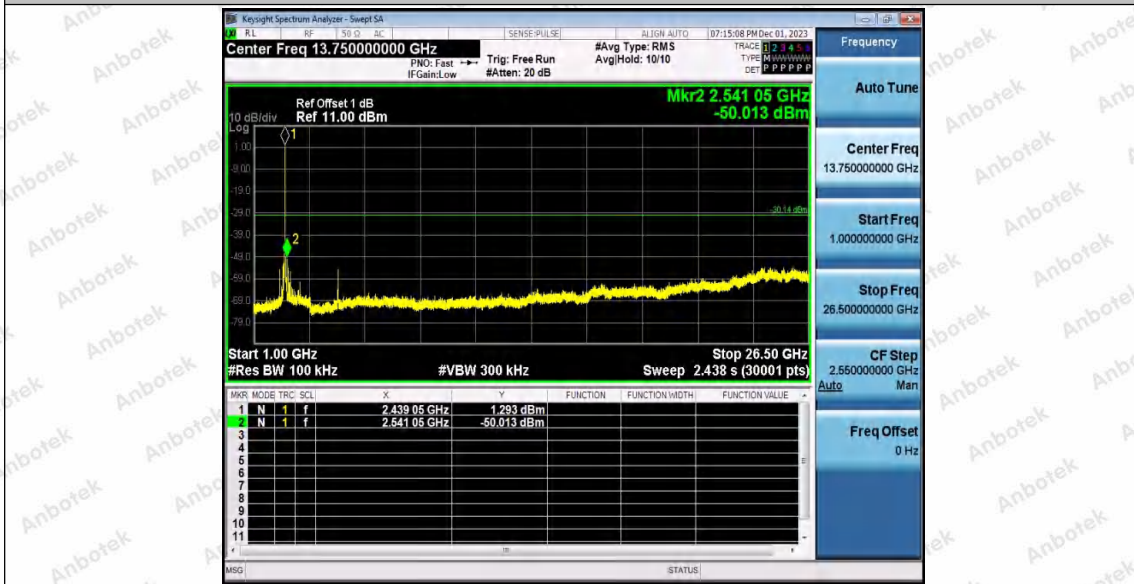
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference

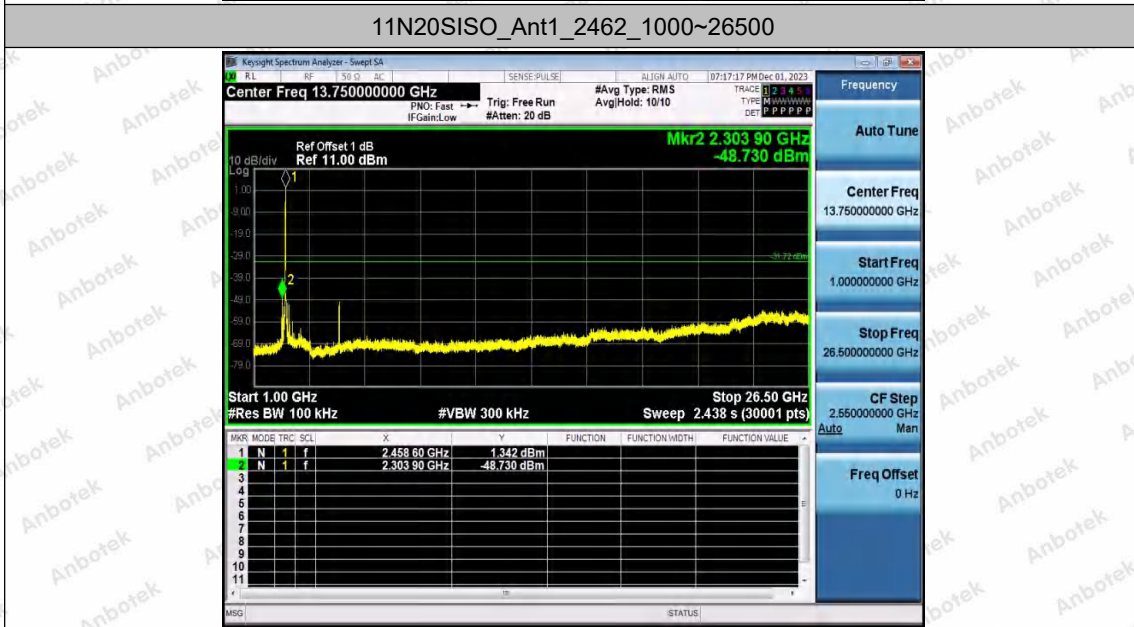
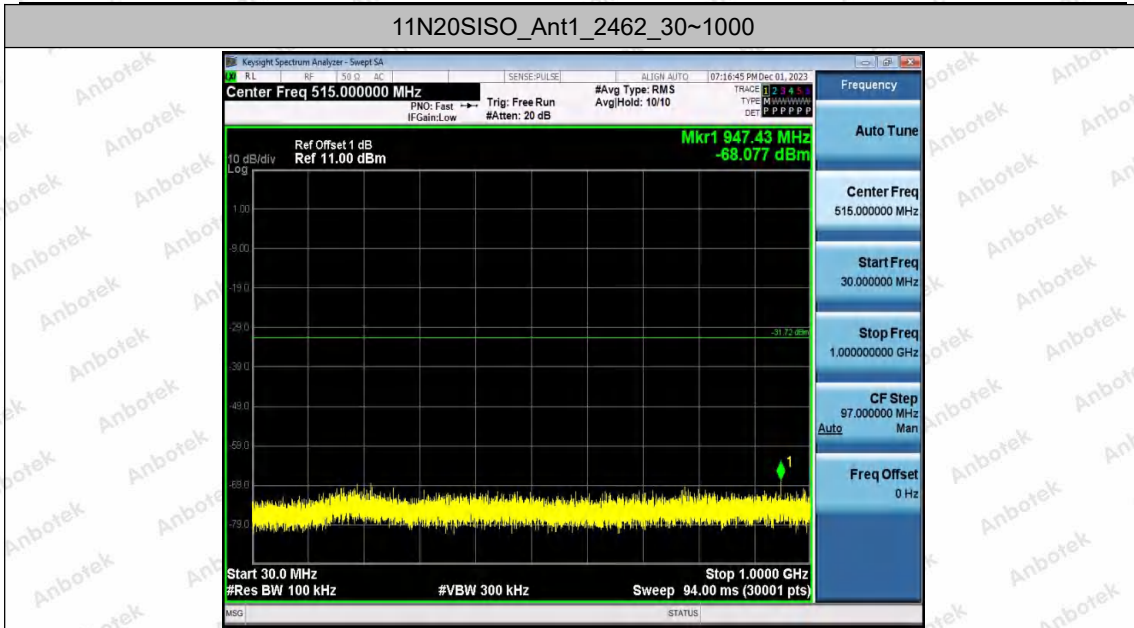


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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.61	8.71	98.85	0.05
		2437	8.61	8.71	98.85	0.05
		2462	8.60	8.70	98.85	0.05
11G	Ant1	2412	1.43	1.54	92.86	0.32
		2437	1.43	1.53	93.46	0.29
		2462	1.43	1.54	92.86	0.32
11N20SISO	Ant1	2412	1.34	1.45	92.41	0.34
		2437	1.34	1.45	92.41	0.34
		2462	1.33	1.44	92.36	0.35

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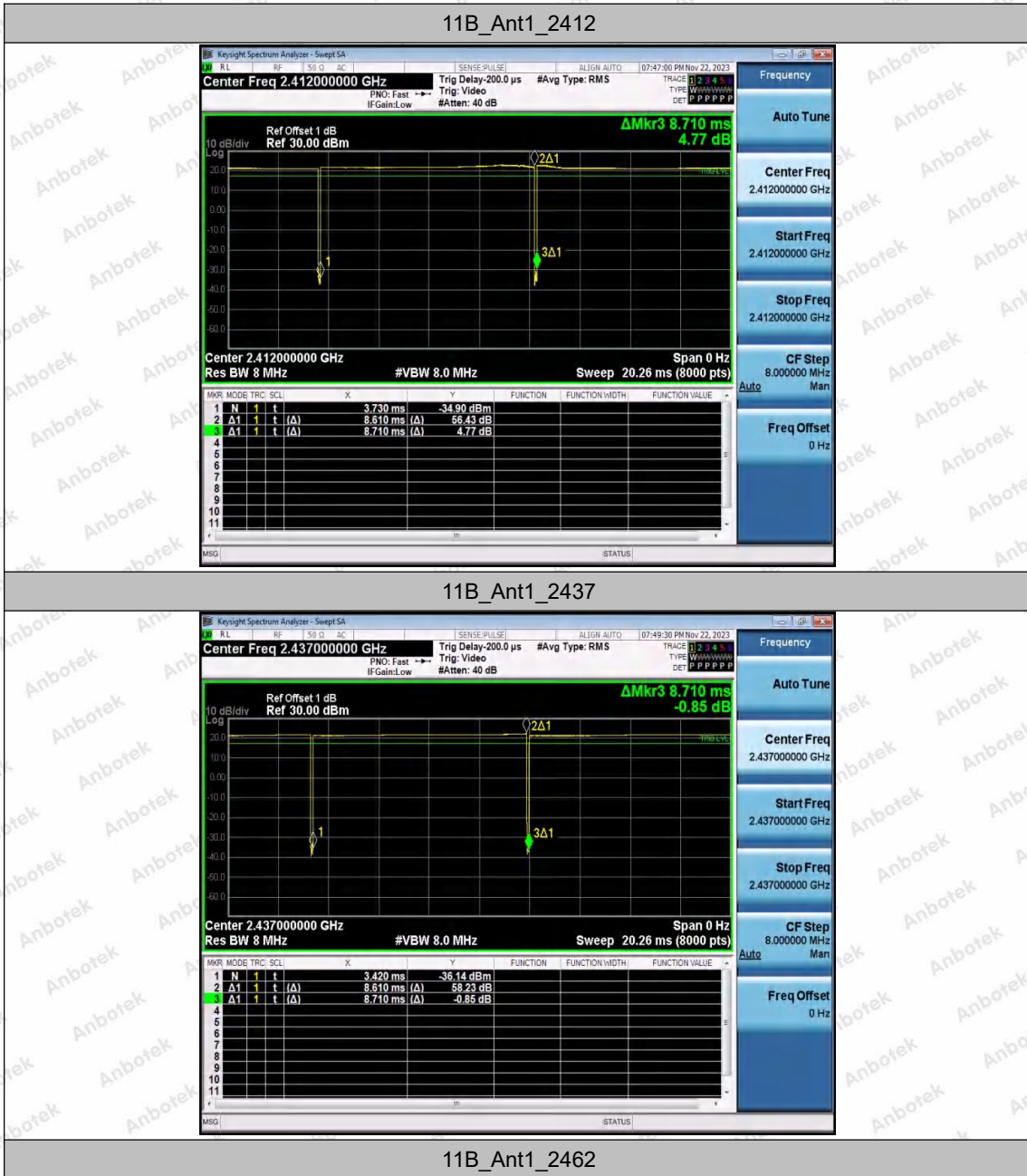
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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Test Graphs

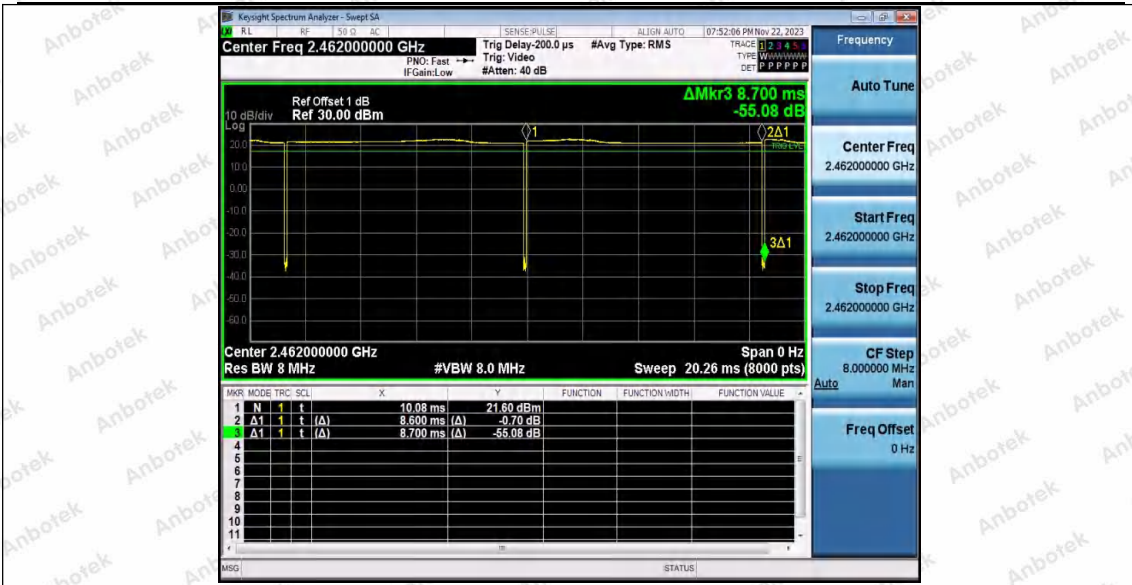


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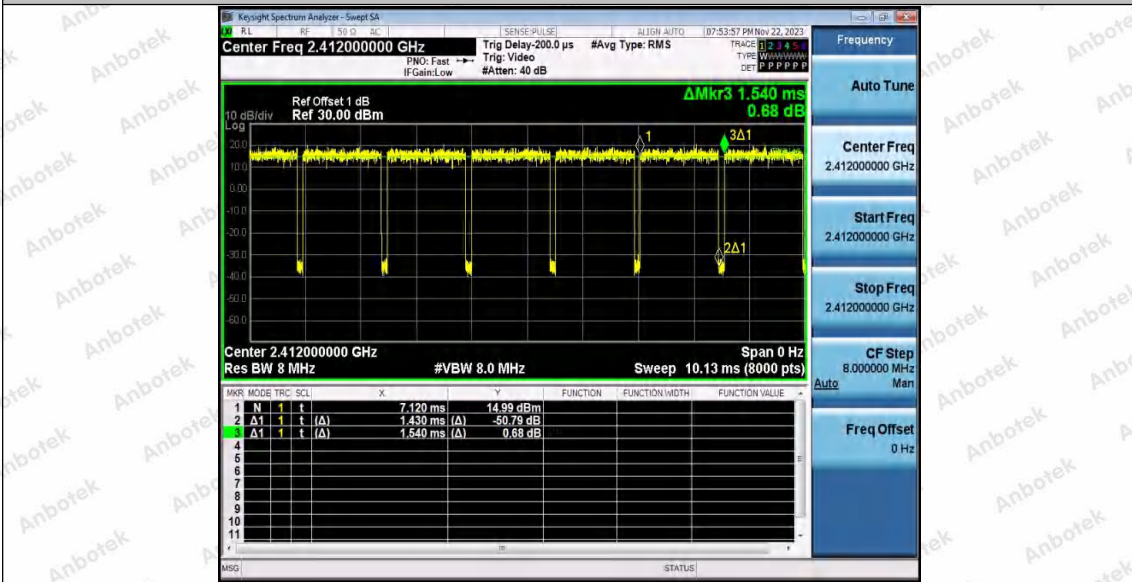
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11G_Ant1_2412



11G_Ant1_2437

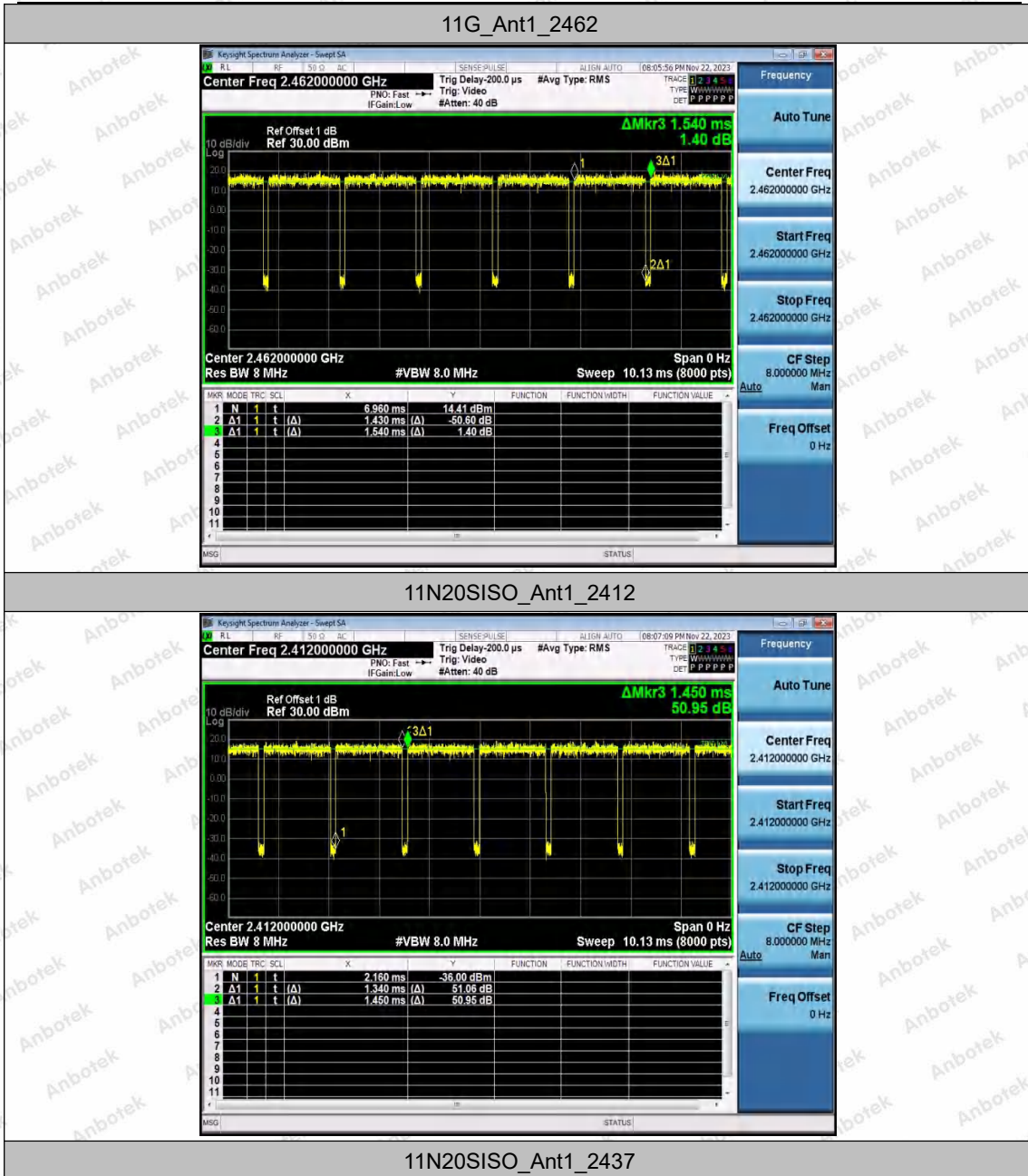


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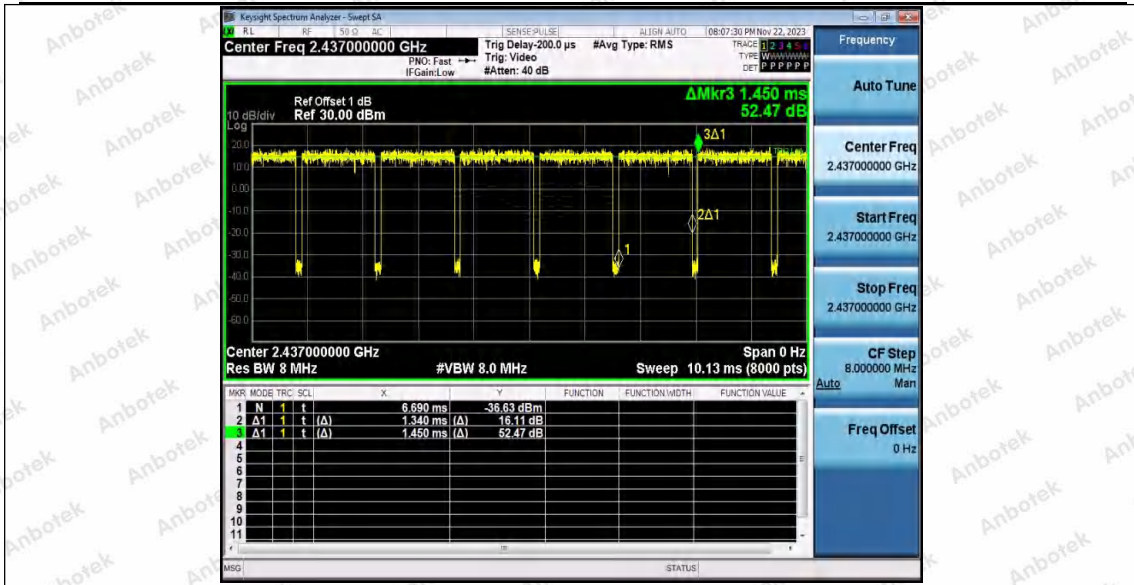


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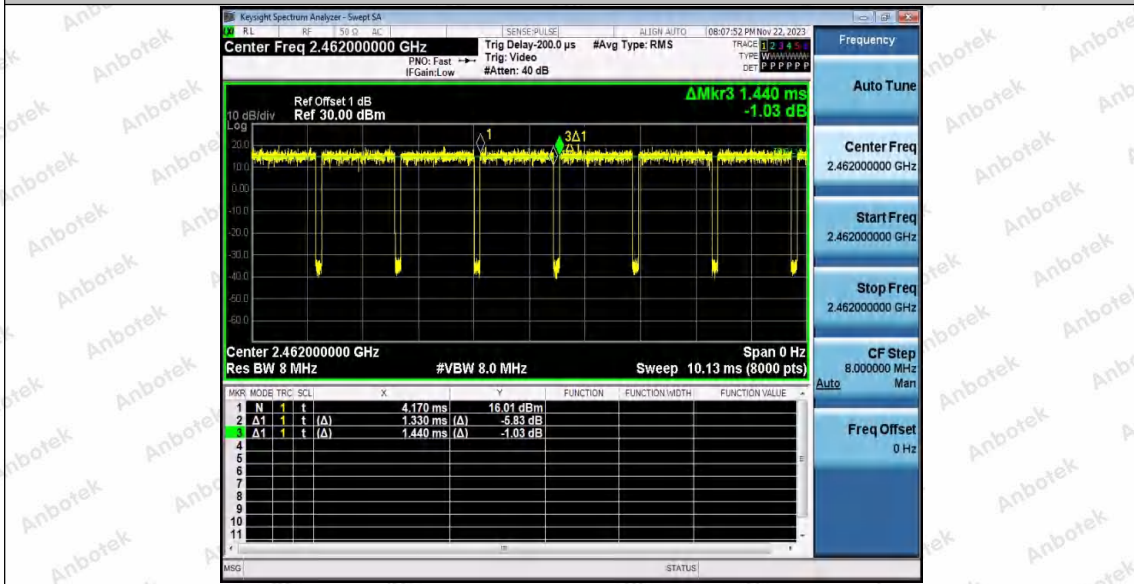
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11N20SISO_Ant1_2462



---End---

