

Appendix Test Data

Report No.:	18220WC30276502	Test Sample No.:	1-2-2
Start Test Date:	2023.12.25	Finish Test Date:	2023.12.26
Test Engineer:	Hayman Chen	Auditor:	Justin Feng
Temperature:	25.2°C	Relative Humidity:	43%
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	8.560	2408.000	2416.560	0.5	PASS
		2437	8.560	2433.000	2441.560	0.5	PASS
		2462	8.120	2457.960	2466.080	0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	0.5	PASS
		2437	16.280	2428.880	2445.160	0.5	PASS
		2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.240	2403.520	2420.760	0.5	PASS
		2437	17.320	2428.480	2445.800	0.5	PASS
		2462	17.560	2453.240	2470.800	0.5	PASS

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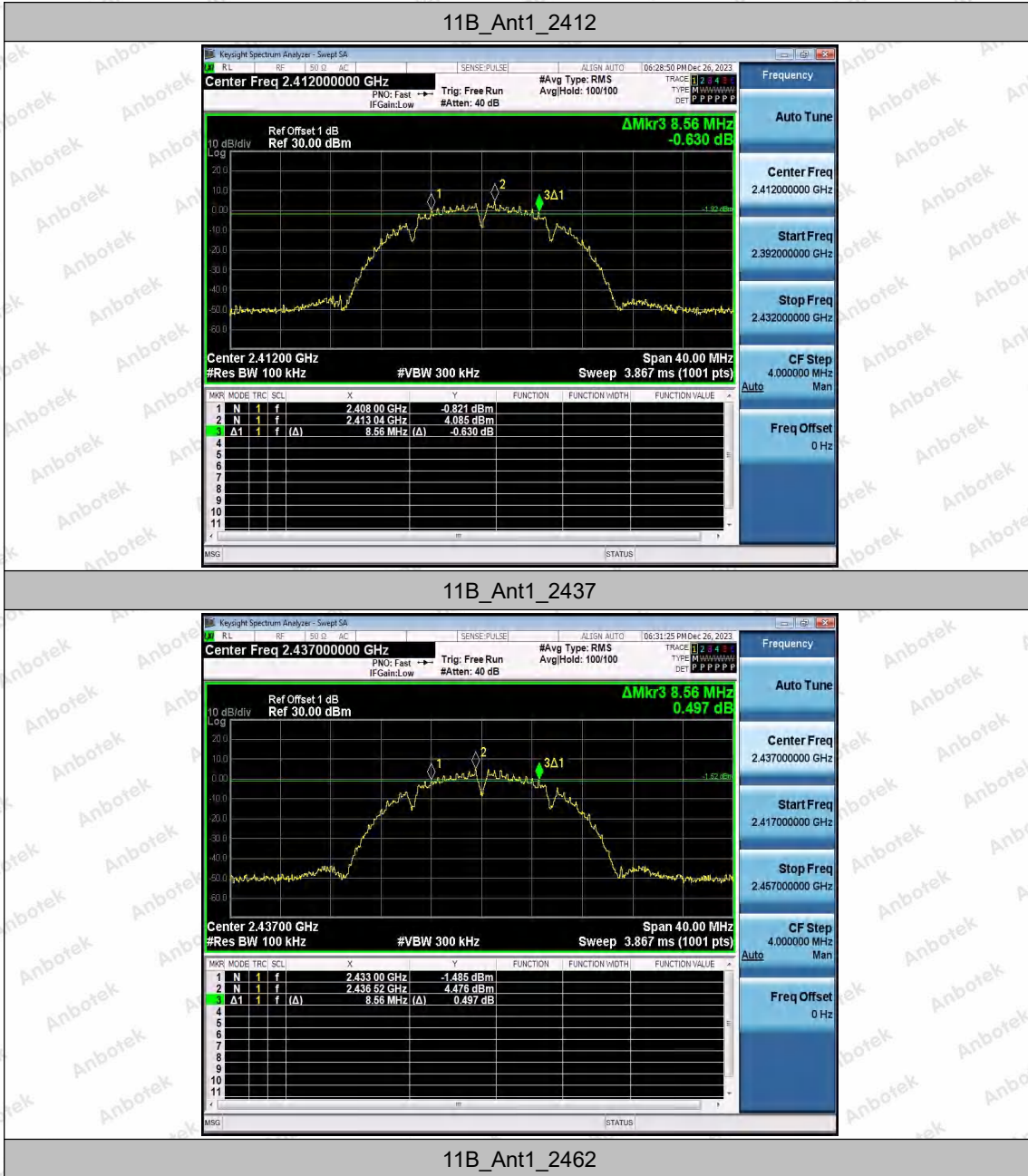
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Test Graphs

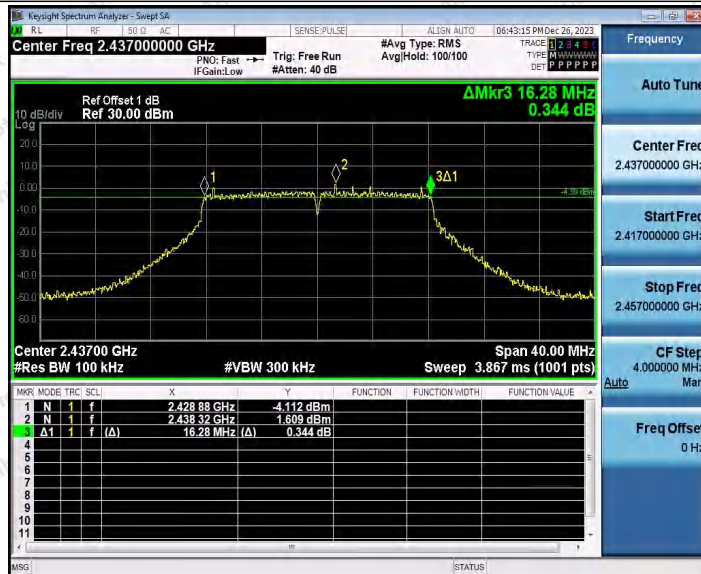




11G_Ant1_2412



11G_Ant1_2437



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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	14.077	2405.0082	2419.0852	---	---
		2437	14.088	2430.0010	2444.0890	---	---
		2462	14.078	2455.0105	2469.0885	---	---
11G	Ant1	2412	17.056	2403.5550	2420.6110	---	---
		2437	17.174	2428.4599	2445.6339	---	---
		2462	17.134	2453.4882	2470.6222	---	---
11N20SISO	Ant1	2412	18.153	2403.0086	2421.1616	---	---
		2437	18.160	2428.0198	2446.1798	---	---
		2462	18.145	2453.0168	2471.1618	---	---

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Test Graphs



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11G_Ant1_2412



11G_Ant1_2437



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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	12.72	≤30.00
		2437	12.93	≤30.00
		2462	13.17	≤30.00
11G	Ant1	2412	12.45	≤30.00
		2437	12.59	≤30.00
		2462	12.83	≤30.00
11N20SISO	Ant1	2412	12.26	≤30.00
		2437	12.58	≤30.00
		2462	12.68	≤30.00

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



Test Graphs

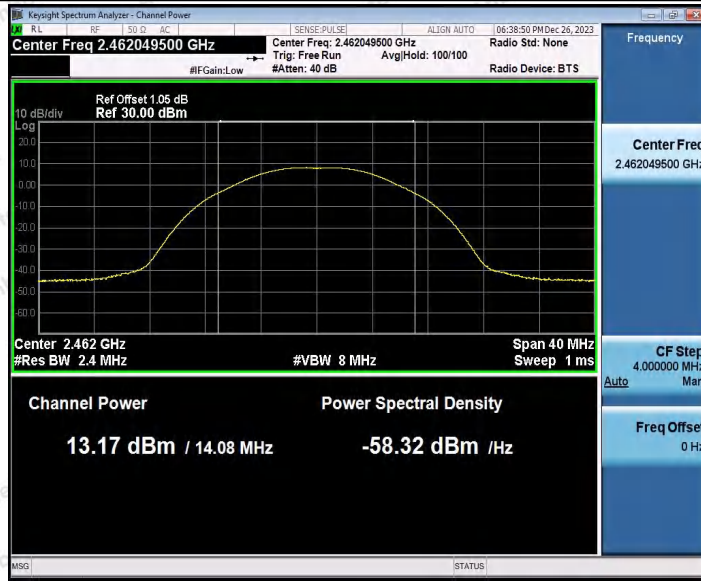


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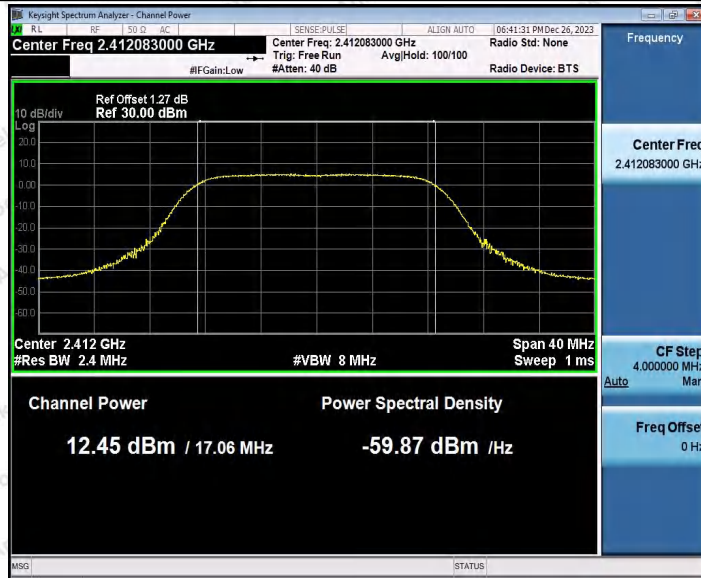
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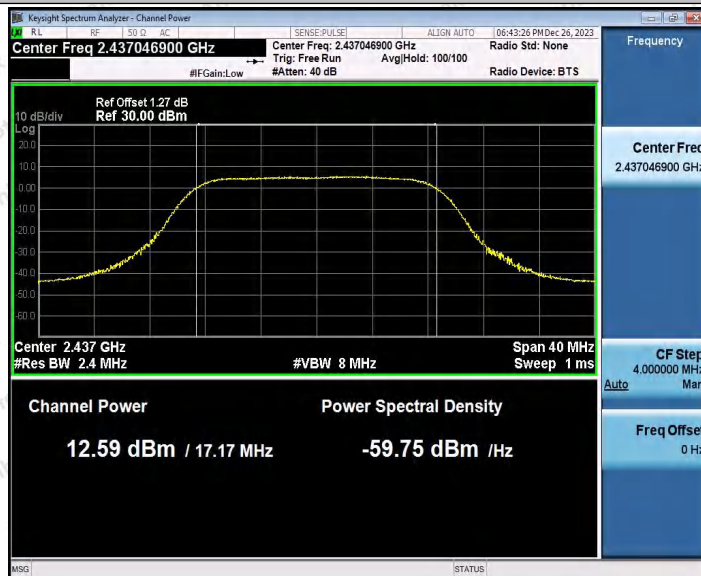




11G_Ant1_2412



11G_Ant1_2437

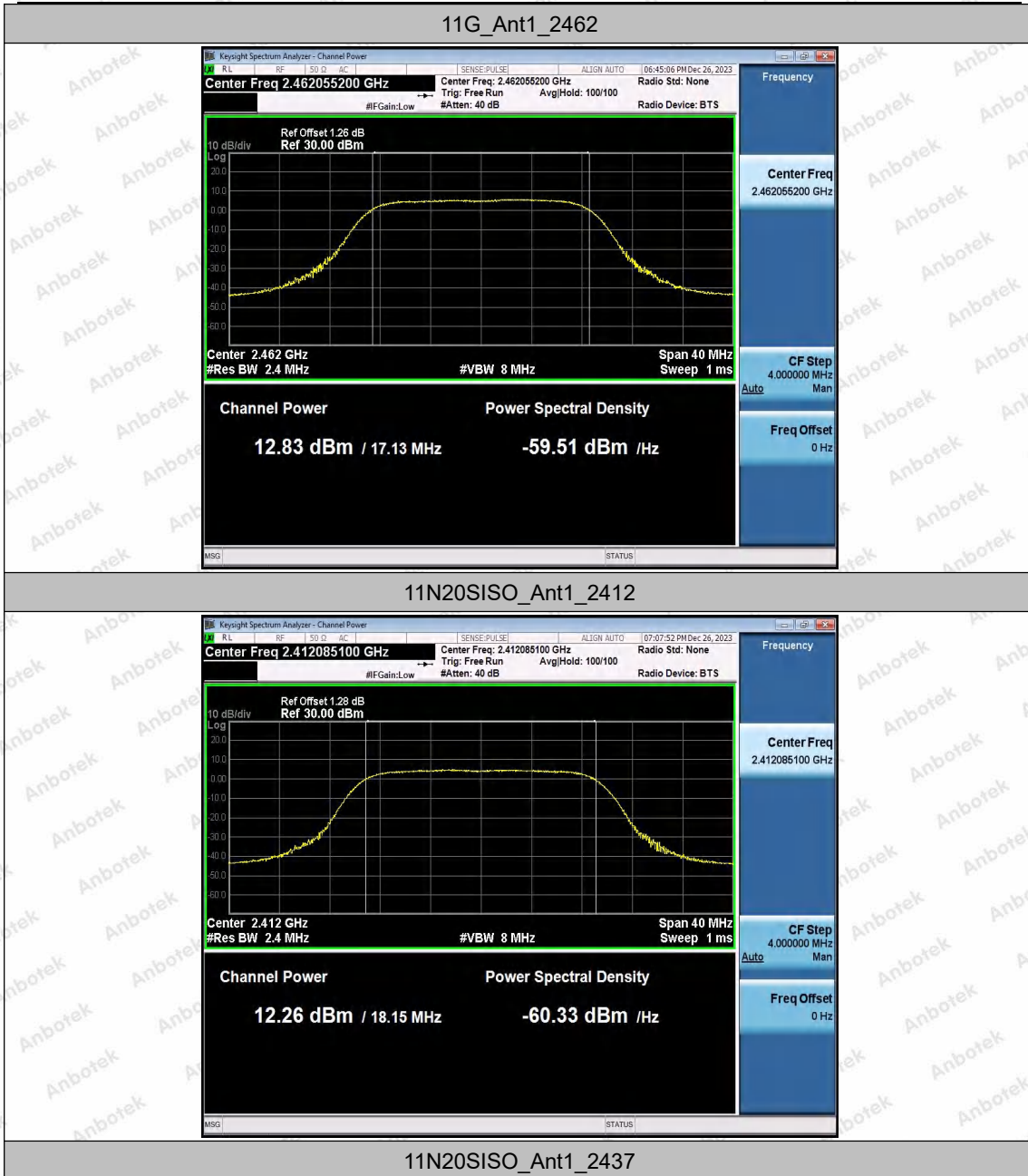


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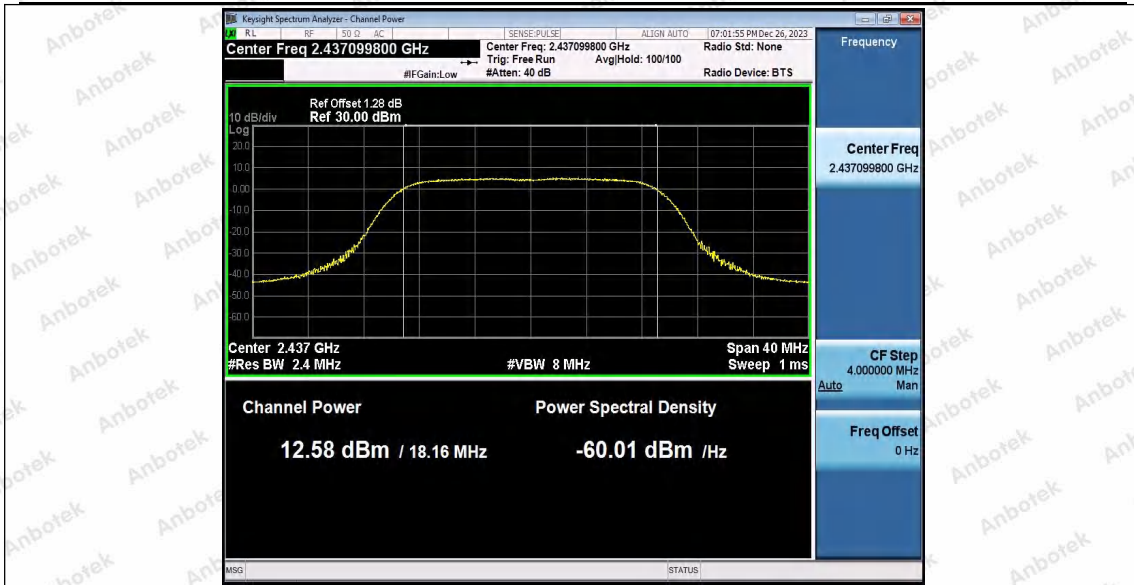
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Appendix D: Maximum power spectral density

Test Result

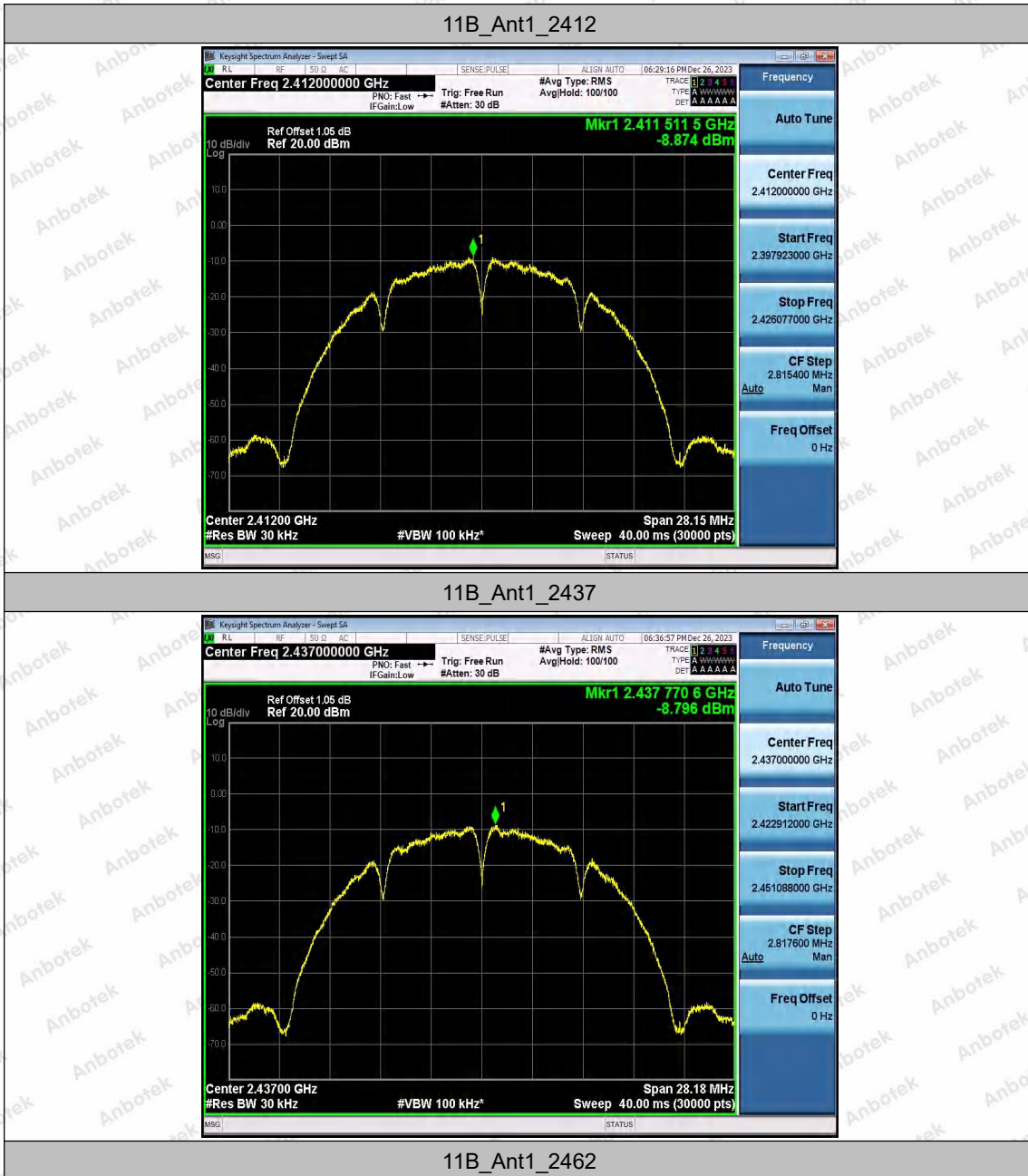
TestMode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-8.87	-18.87	≤8.00	PASS
		2437	-8.80	-18.80	≤8.00	PASS
		2462	-8.09	-18.09	≤8.00	PASS
11G	Ant1	2412	-11.24	-21.24	≤8.00	PASS
		2437	-11.56	-21.56	≤8.00	PASS
		2462	-10.54	-20.54	≤8.00	PASS
11N20SISO	Ant1	2412	-11.78	-21.78	≤8.00	PASS
		2437	-11.47	-21.47	≤8.00	PASS
		2462	-11.52	-21.52	≤8.00	PASS

Note:

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



Test Graphs



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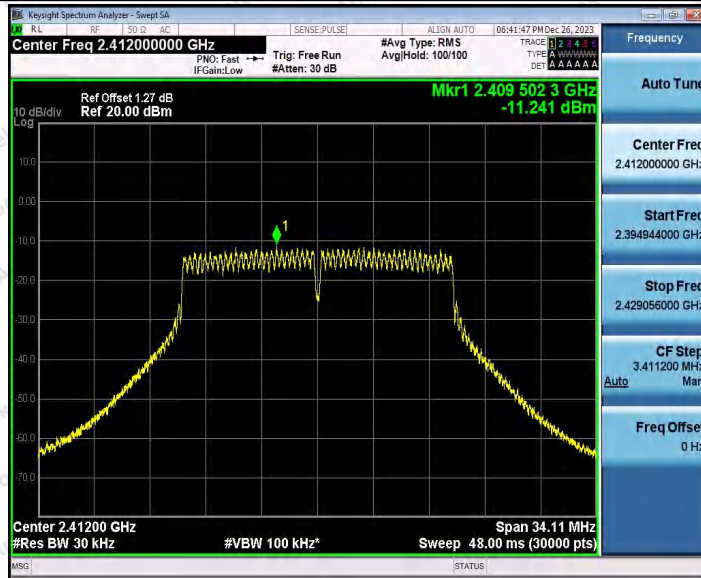
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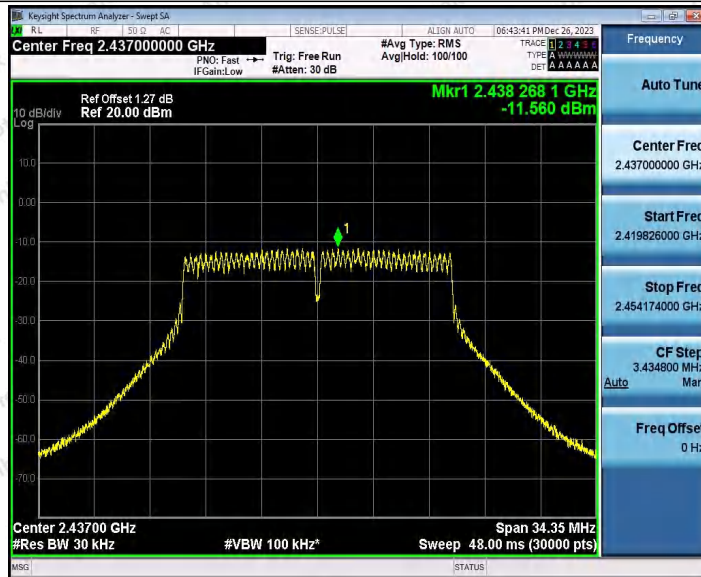




11G_Ant1_2412



11G_Ant1_2437

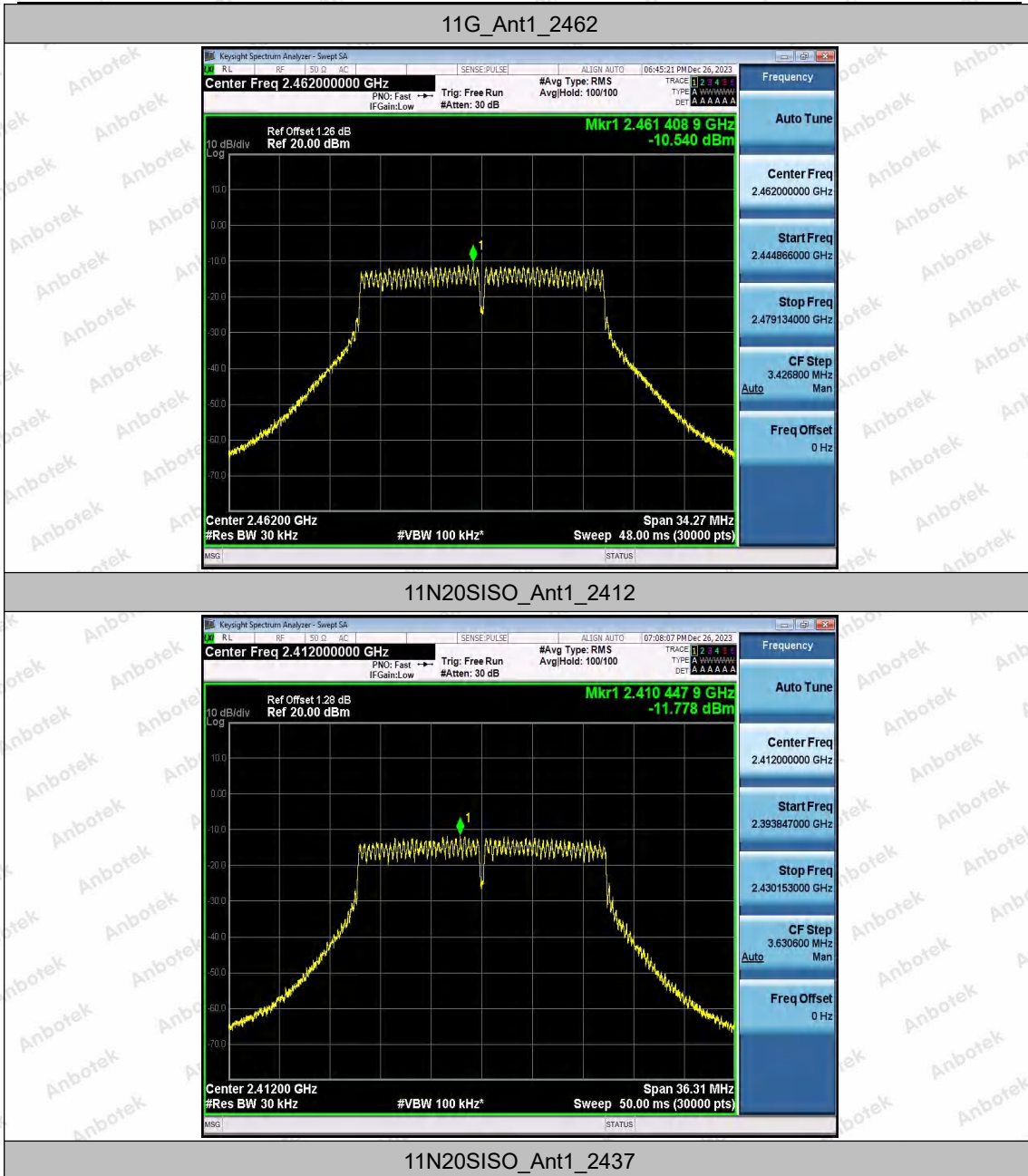


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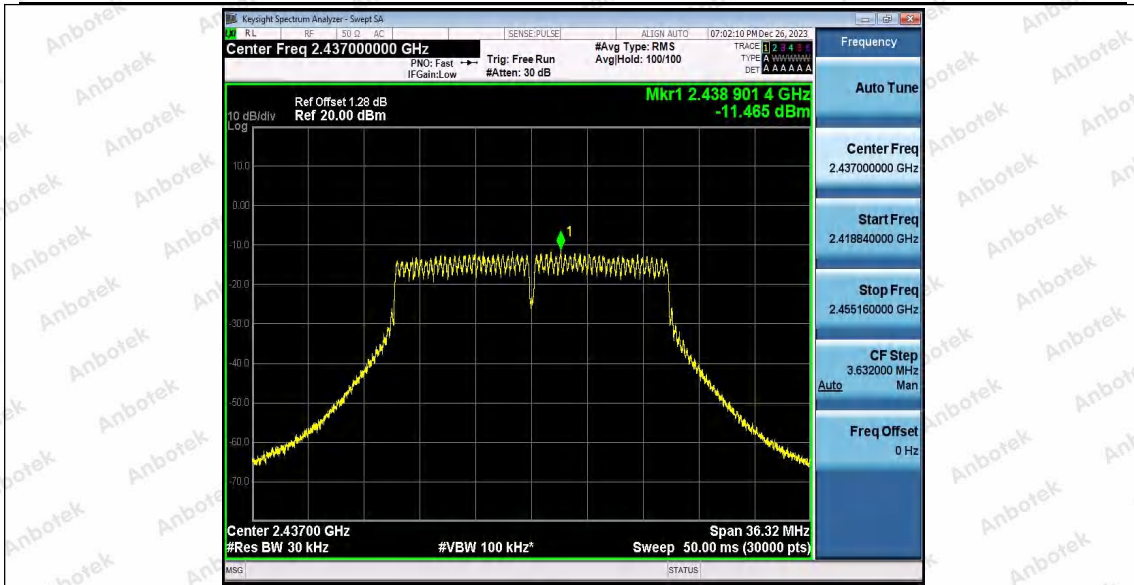


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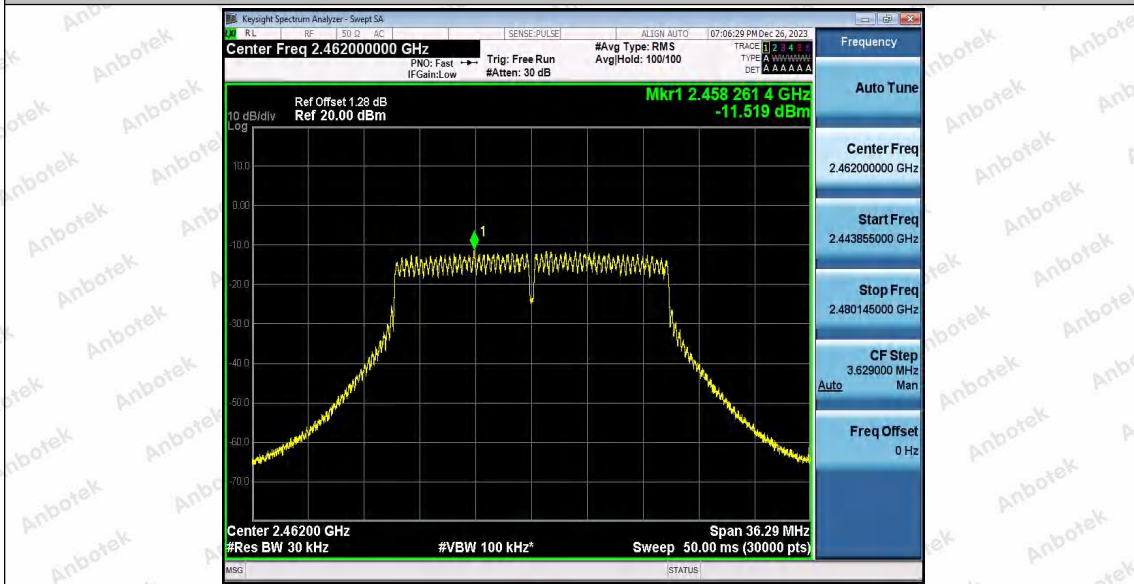
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11N20SISO_Ant1_2462



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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	3.82	-45.03	≤-26.18	PASS
		High	2462	4.81	-53.63	≤-25.19	PASS
11G	Ant1	Low	2412	1.21	-35.03	≤-28.79	PASS
		High	2462	1.08	-52.1	≤-28.92	PASS
11N20SISO	Ant1	Low	2412	1.35	-34.03	≤-28.65	PASS
		High	2462	1.64	-52.16	≤-28.36	PASS

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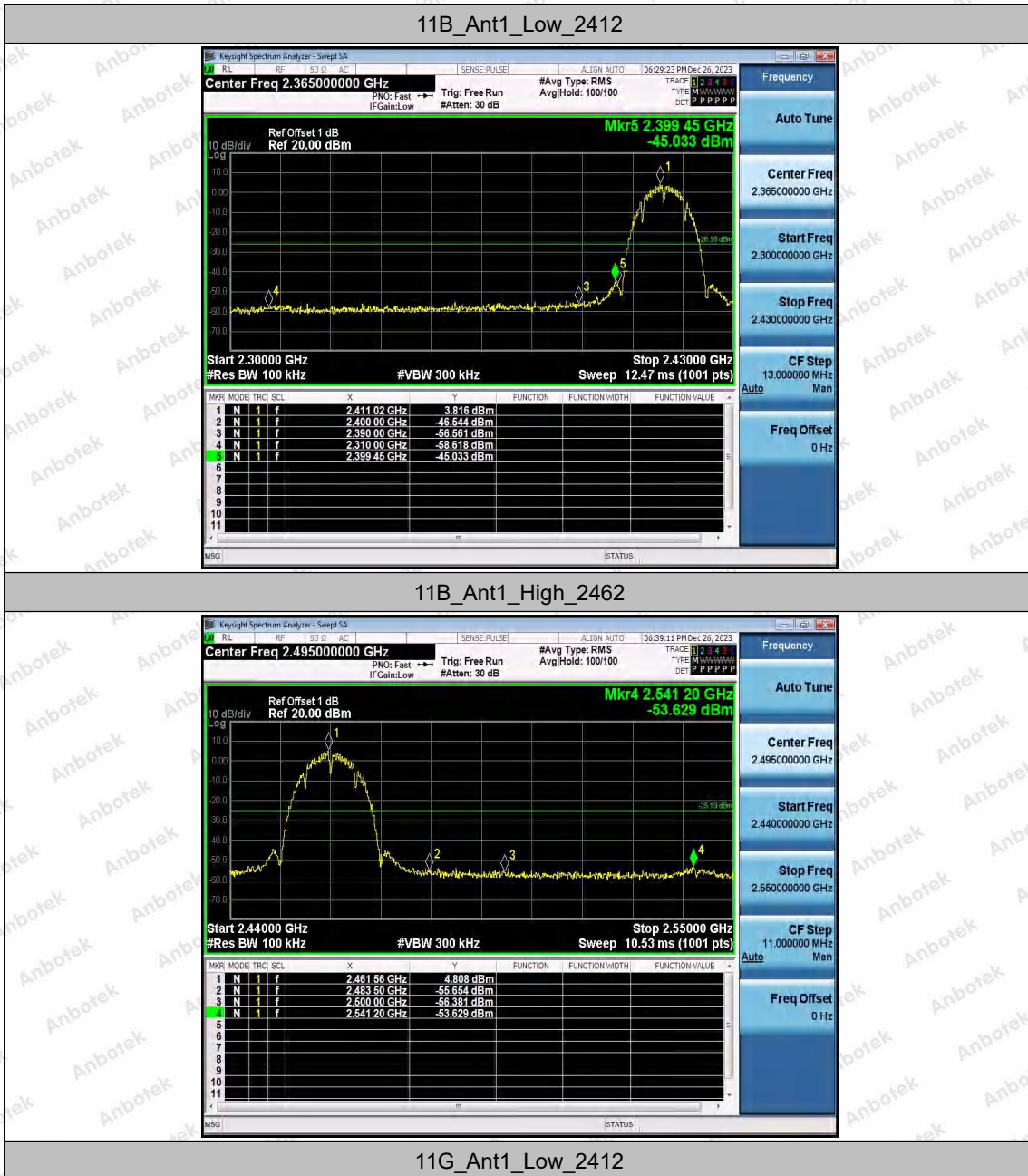
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Test Graphs

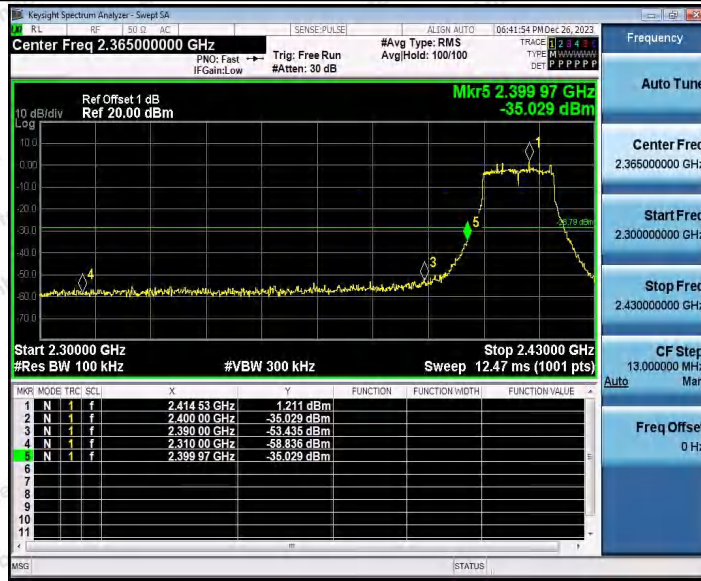


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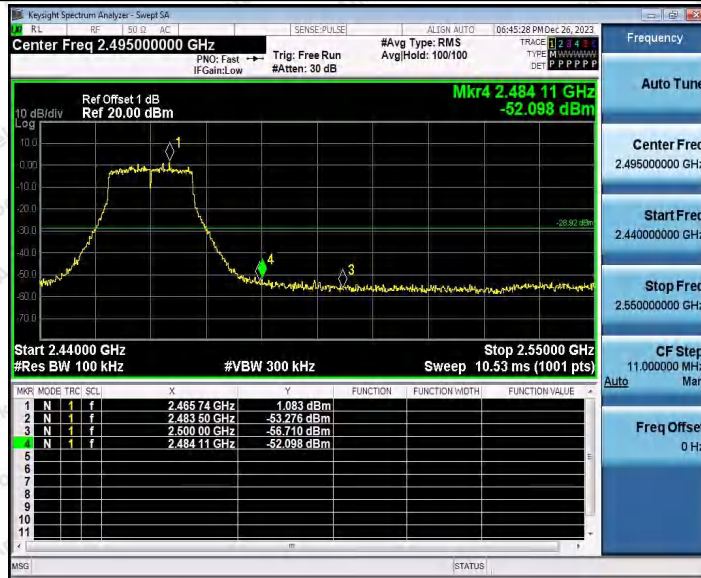
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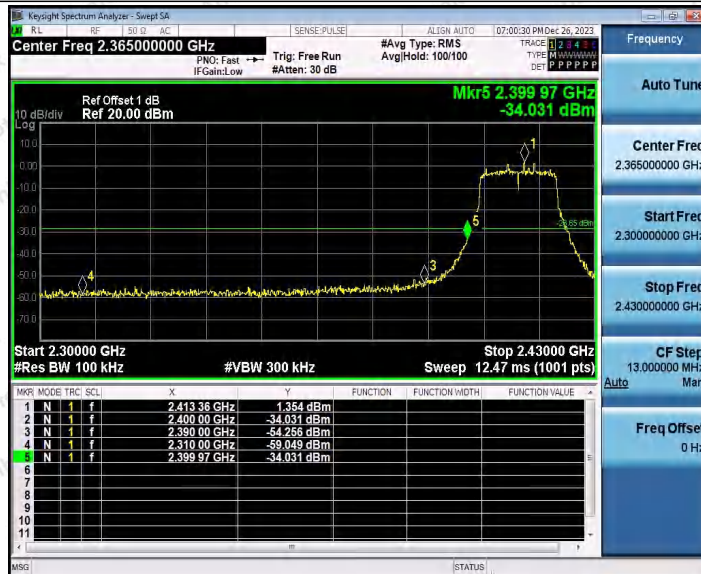




11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

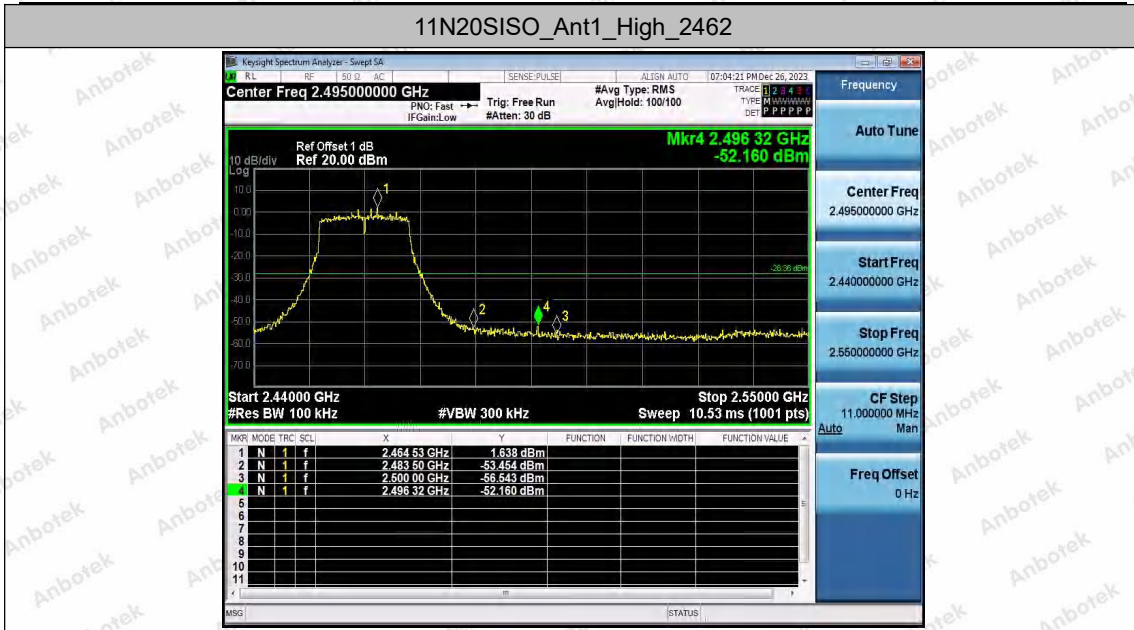


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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.23	3.23	---	PASS
			30~1000	3.23	-68.16	≤-26.77	PASS
			1000~26500	3.23	-53.72	≤-26.77	PASS
		2437	Reference	3.34	3.34	---	PASS
			30~1000	3.34	-68.08	≤-26.66	PASS
			1000~26500	3.34	-52.9	≤-26.66	PASS
		2462	Reference	2.66	2.66	---	PASS
			30~1000	2.66	-68.23	≤-27.34	PASS
			1000~26500	2.66	-53.45	≤-27.34	PASS
11G	Ant1	2412	Reference	0.28	0.28	---	PASS
			30~1000	0.28	-67.6	≤-29.72	PASS
			1000~26500	0.28	-53.28	≤-29.72	PASS
		2437	Reference	0.32	0.32	---	PASS
			30~1000	0.32	-68.37	≤-29.68	PASS
			1000~26500	0.32	-53.38	≤-29.68	PASS
		2462	Reference	1.35	1.35	---	PASS
			30~1000	1.35	-68.87	≤-28.65	PASS
			1000~26500	1.35	-53.12	≤-28.65	PASS
11N20SISO	Ant1	2412	Reference	1.19	1.19	---	PASS
			30~1000	1.19	-69.01	≤-28.81	PASS
			1000~26500	1.19	-53.87	≤-28.81	PASS
		2437	Reference	-1.75	-1.75	---	PASS
			30~1000	-1.75	-68.95	≤-31.75	PASS
			1000~26500	-1.75	-53.16	≤-31.75	PASS
		2462	Reference	-0.36	-0.36	---	PASS
			30~1000	-0.36	-67.55	≤-30.36	PASS
			1000~26500	-0.36	-53.82	≤-30.36	PASS

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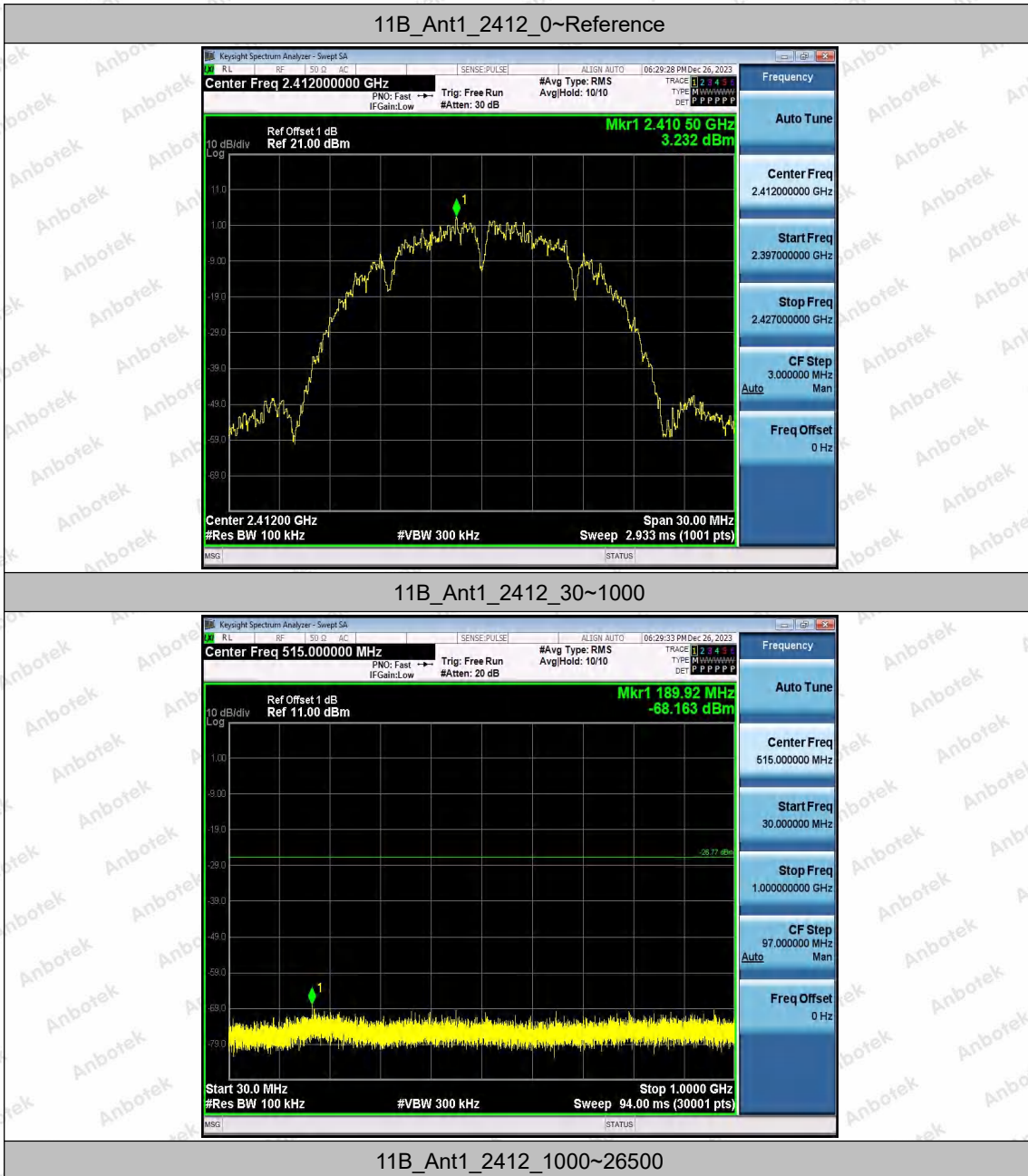
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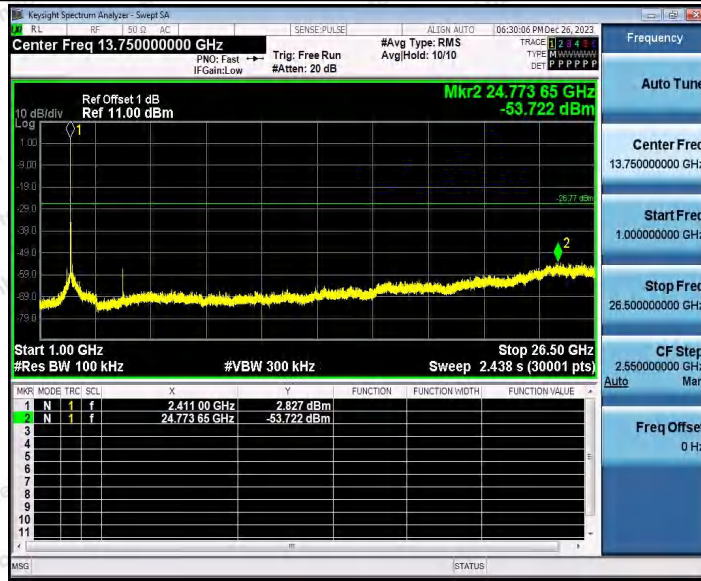


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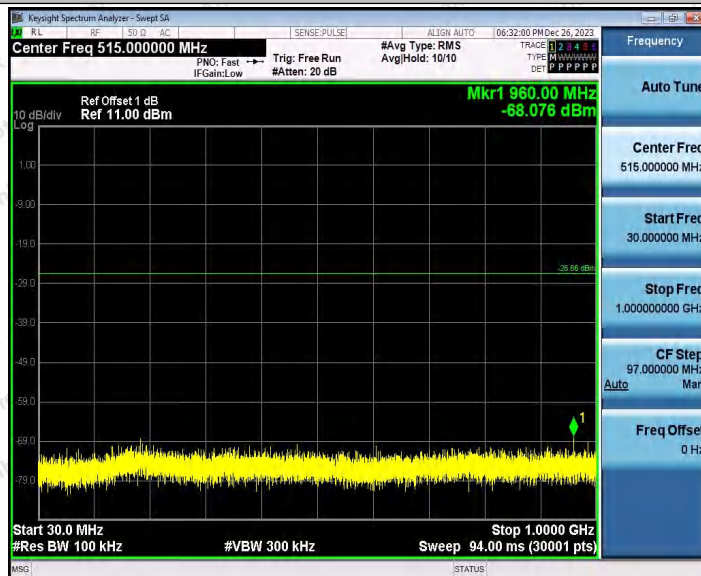




11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



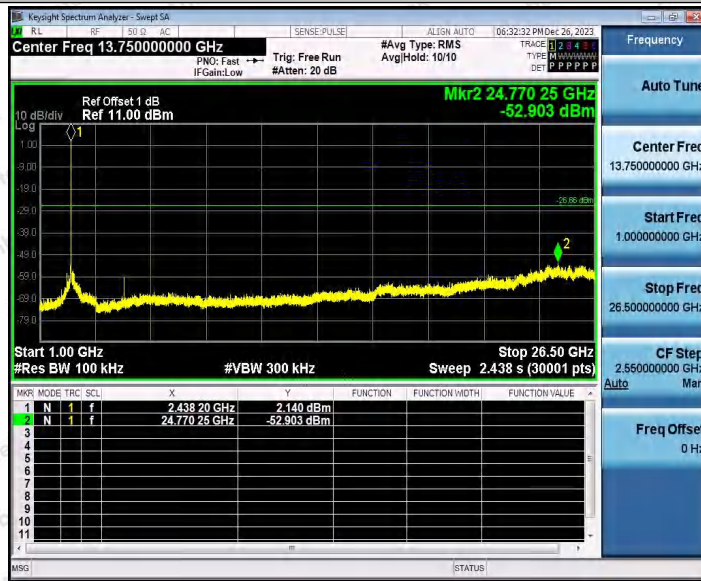
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



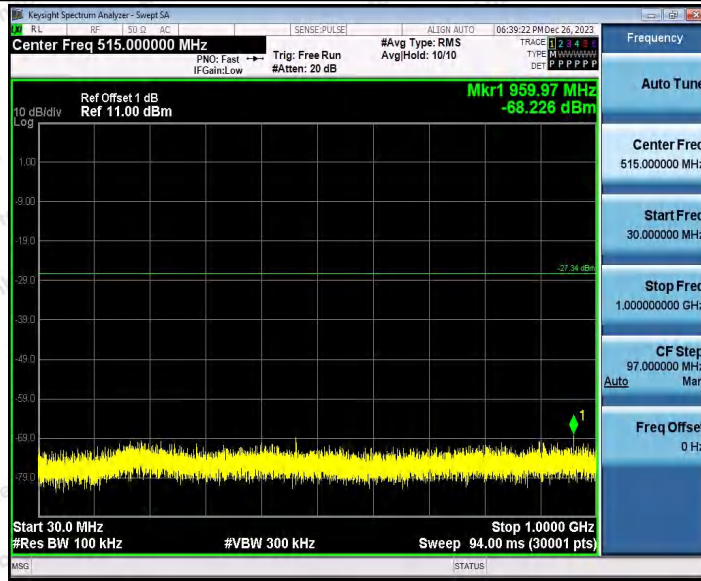
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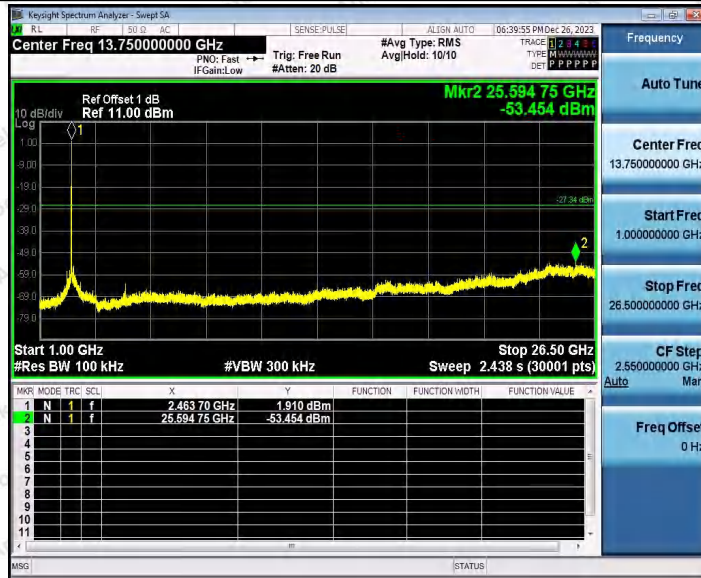
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11B_Ant1_2462_1000~26500



11B_Ant1_2462_1000~26500



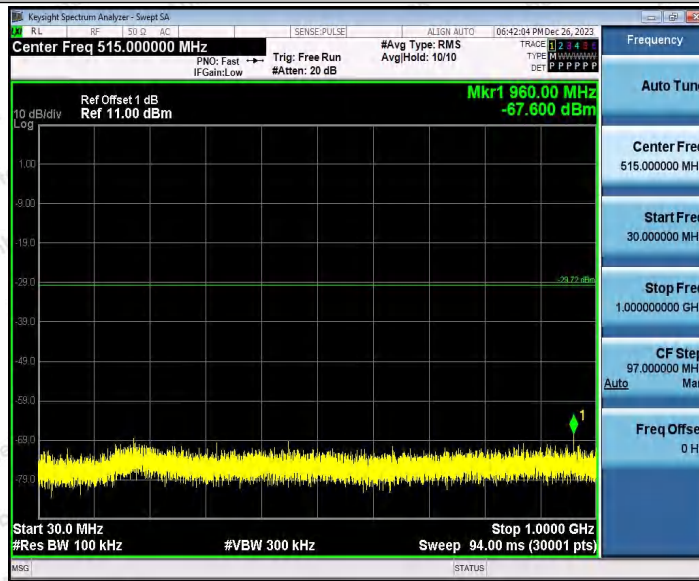
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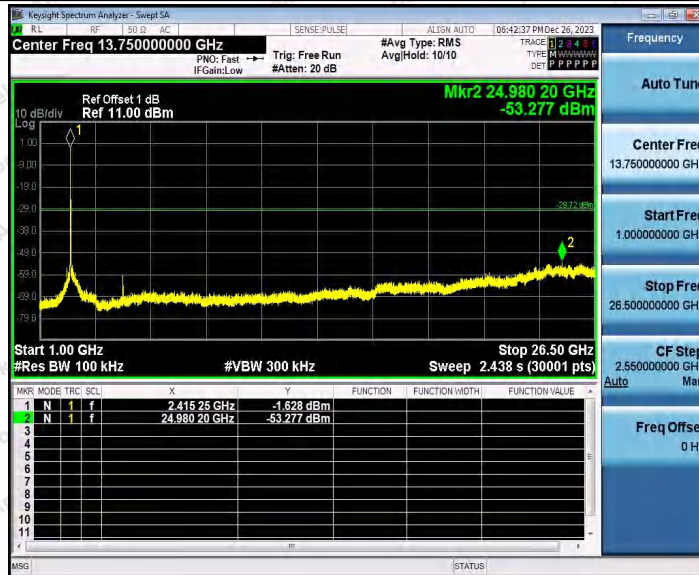
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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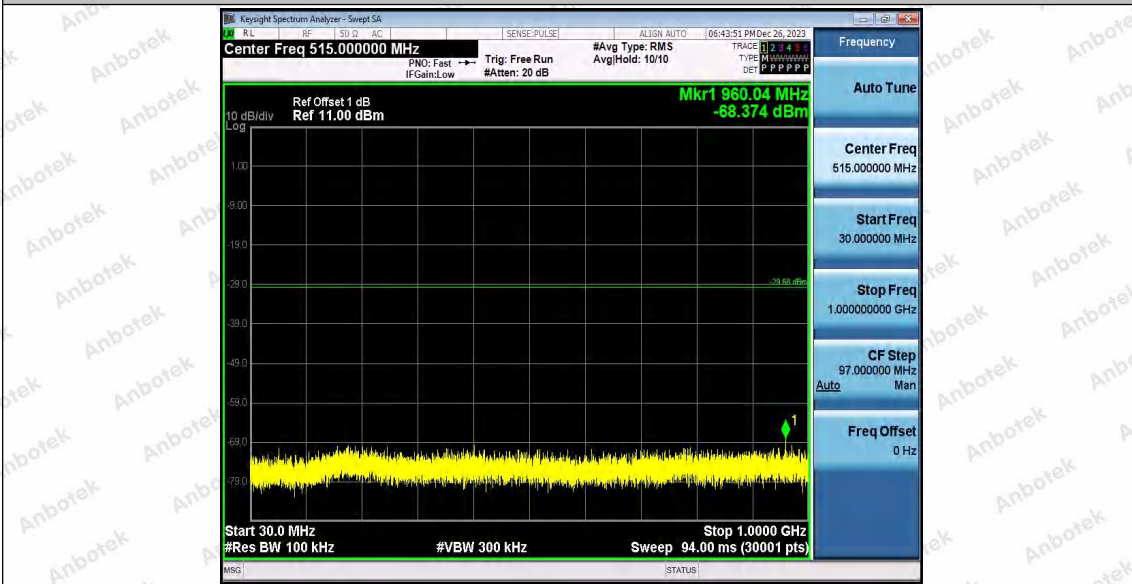
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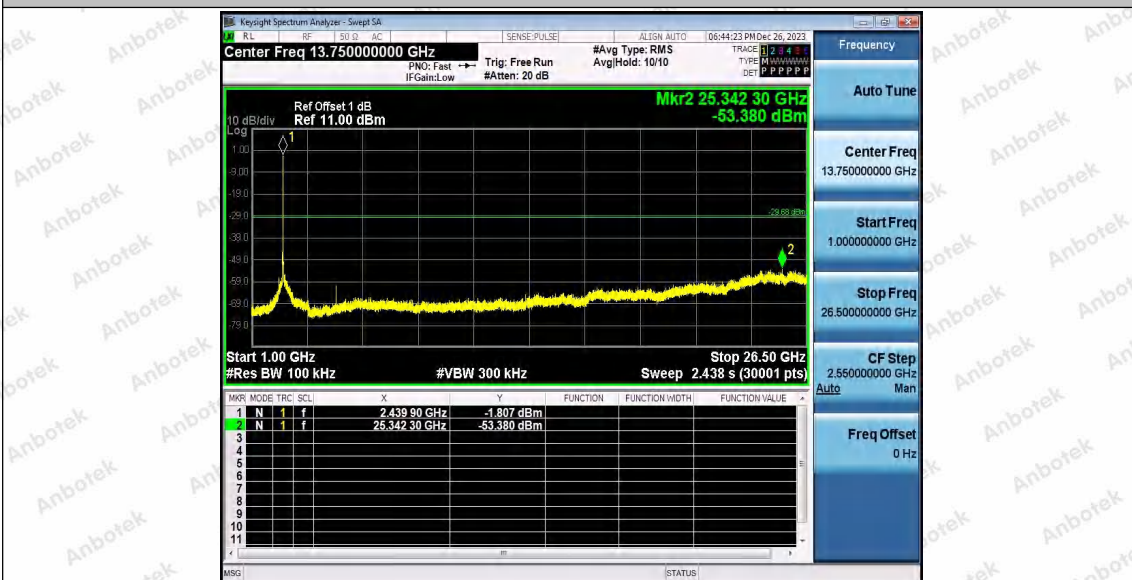




11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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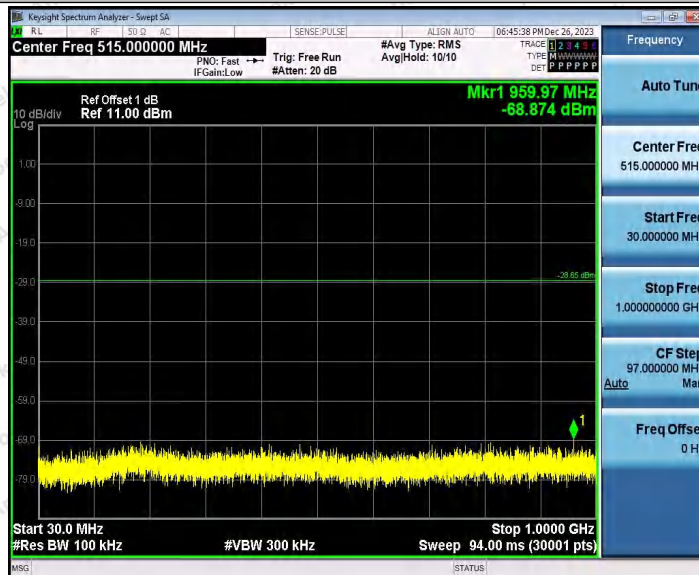
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



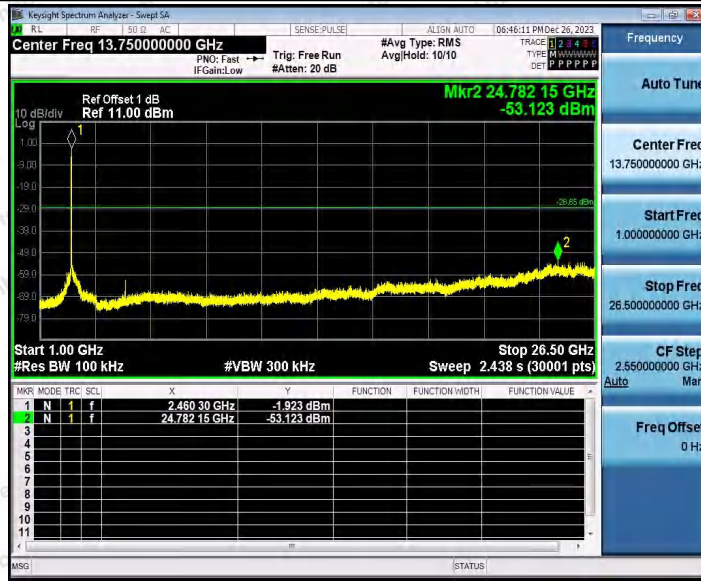
11G_Ant1_2462_1000~26500

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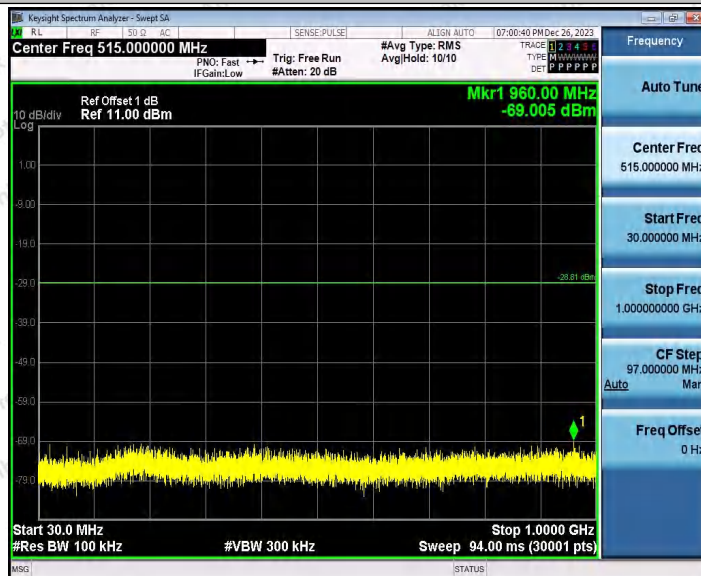




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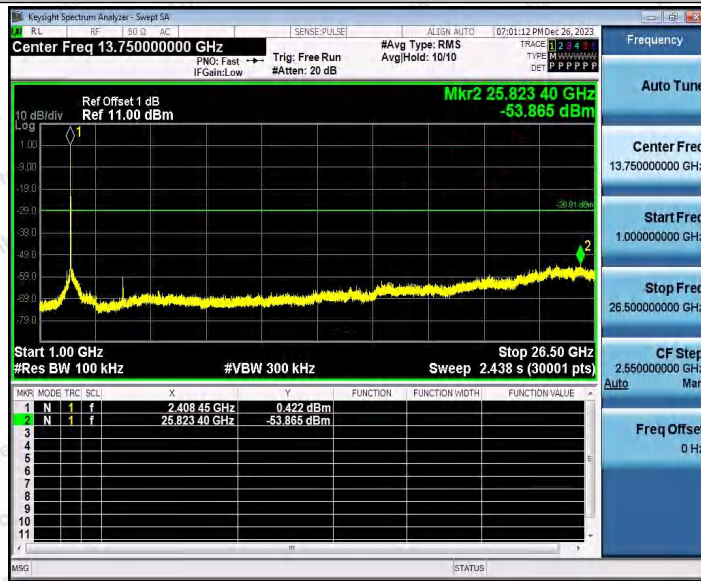
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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



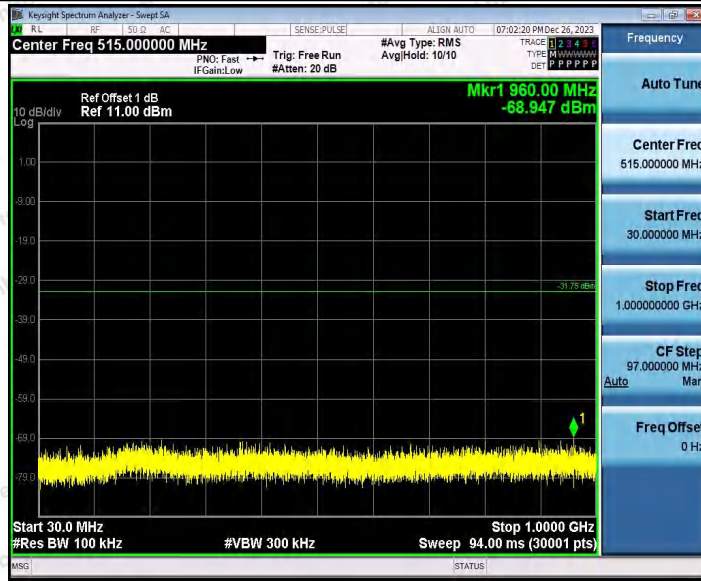
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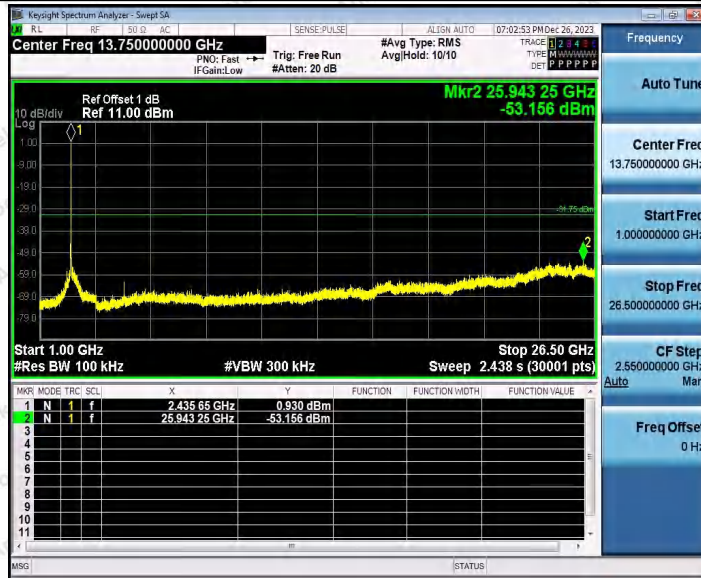
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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference

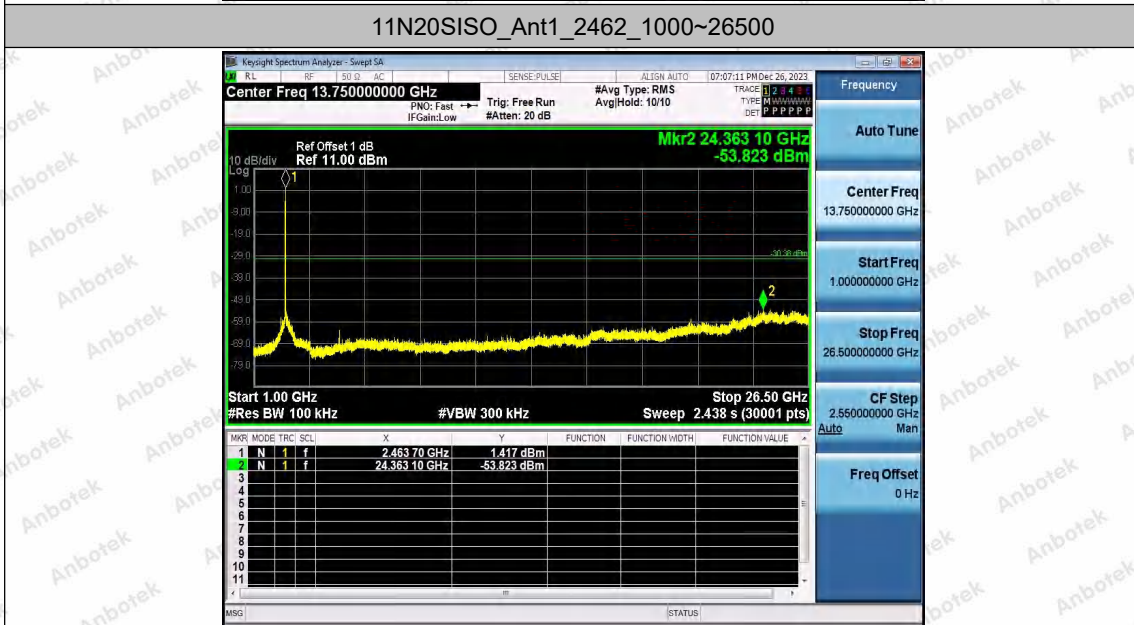
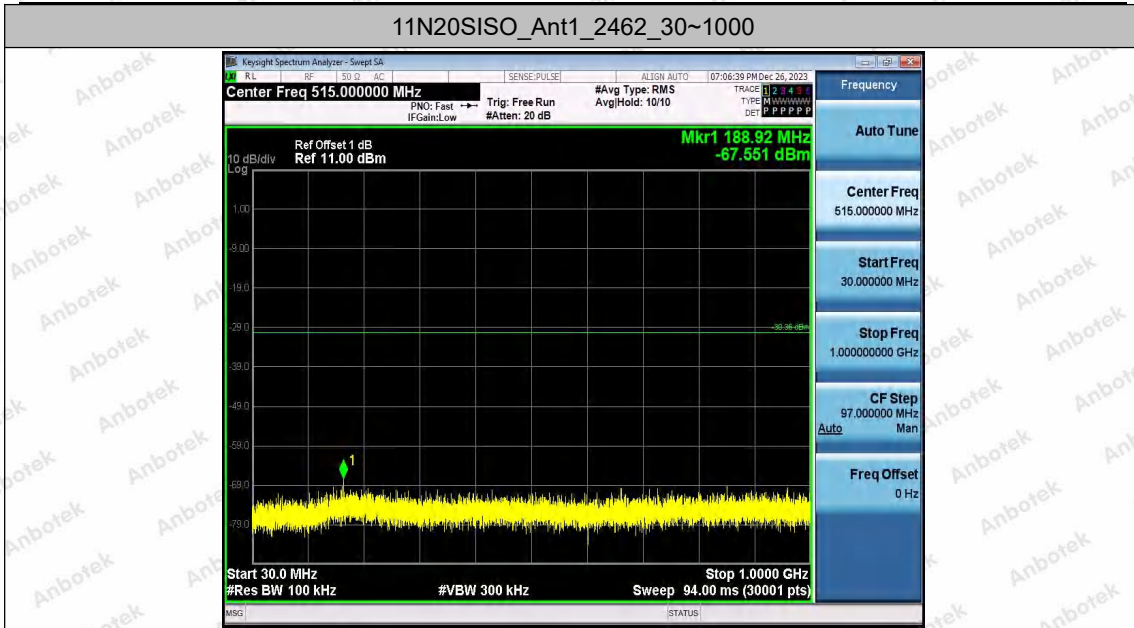


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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.43	12.56	98.96	0.05
		2437	12.42	12.56	98.89	0.05
		2462	12.43	12.56	98.96	0.05
11G	Ant1	2412	2.06	2.19	94.06	0.27
		2437	2.06	2.19	94.06	0.27
		2462	2.07	2.20	94.09	0.26
11N20SISO	Ant1	2412	1.92	2.05	93.66	0.28
		2437	1.92	2.05	93.66	0.28
		2462	1.92	2.05	93.66	0.28

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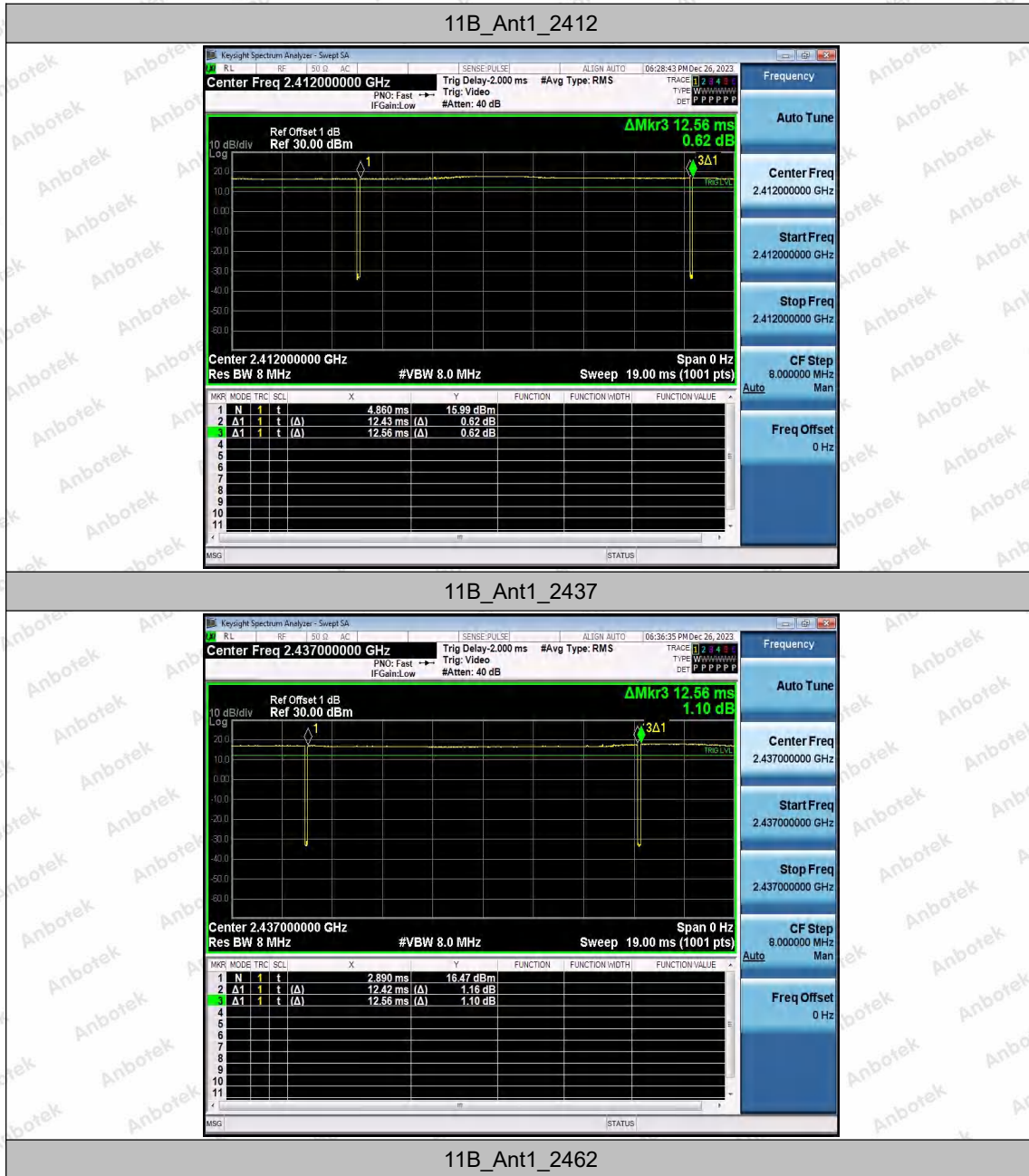
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Test Graphs

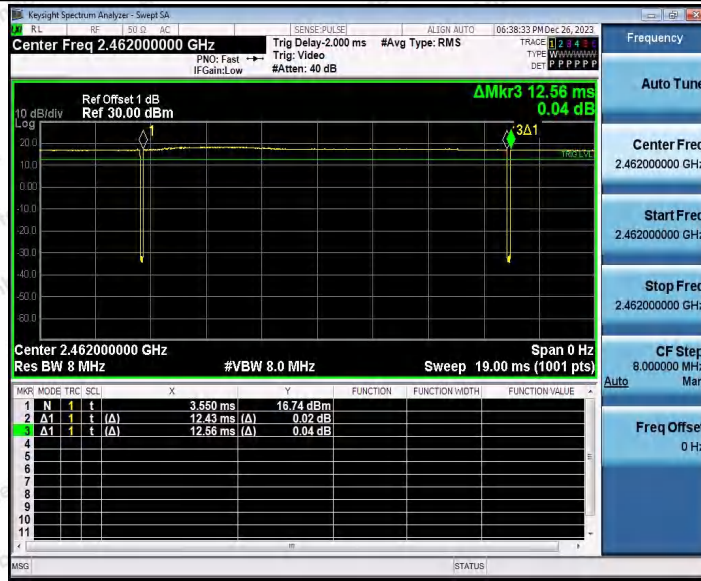


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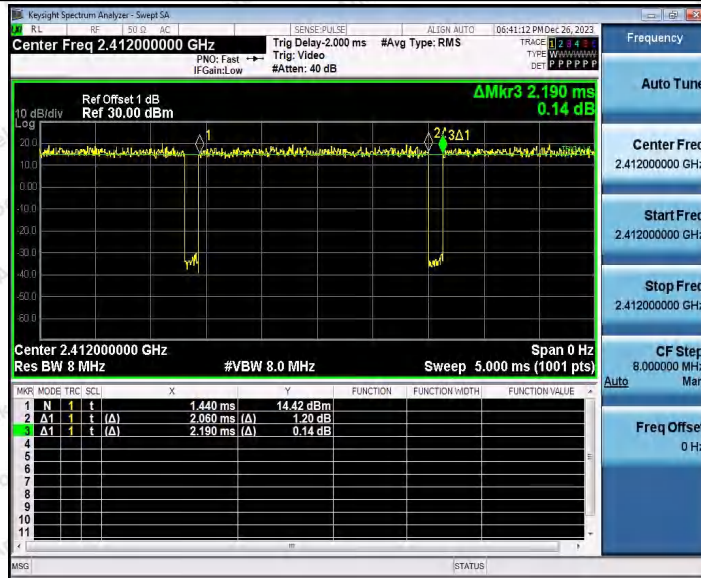
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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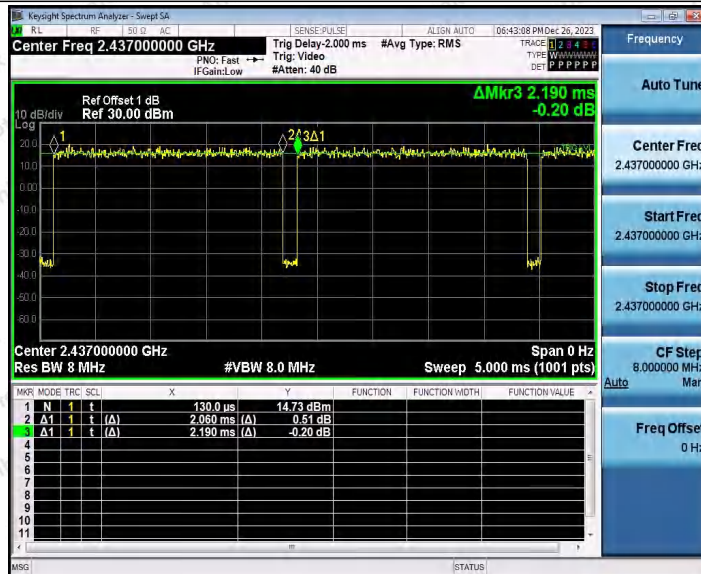




11G_Ant1_2412



11G_Ant1_2437

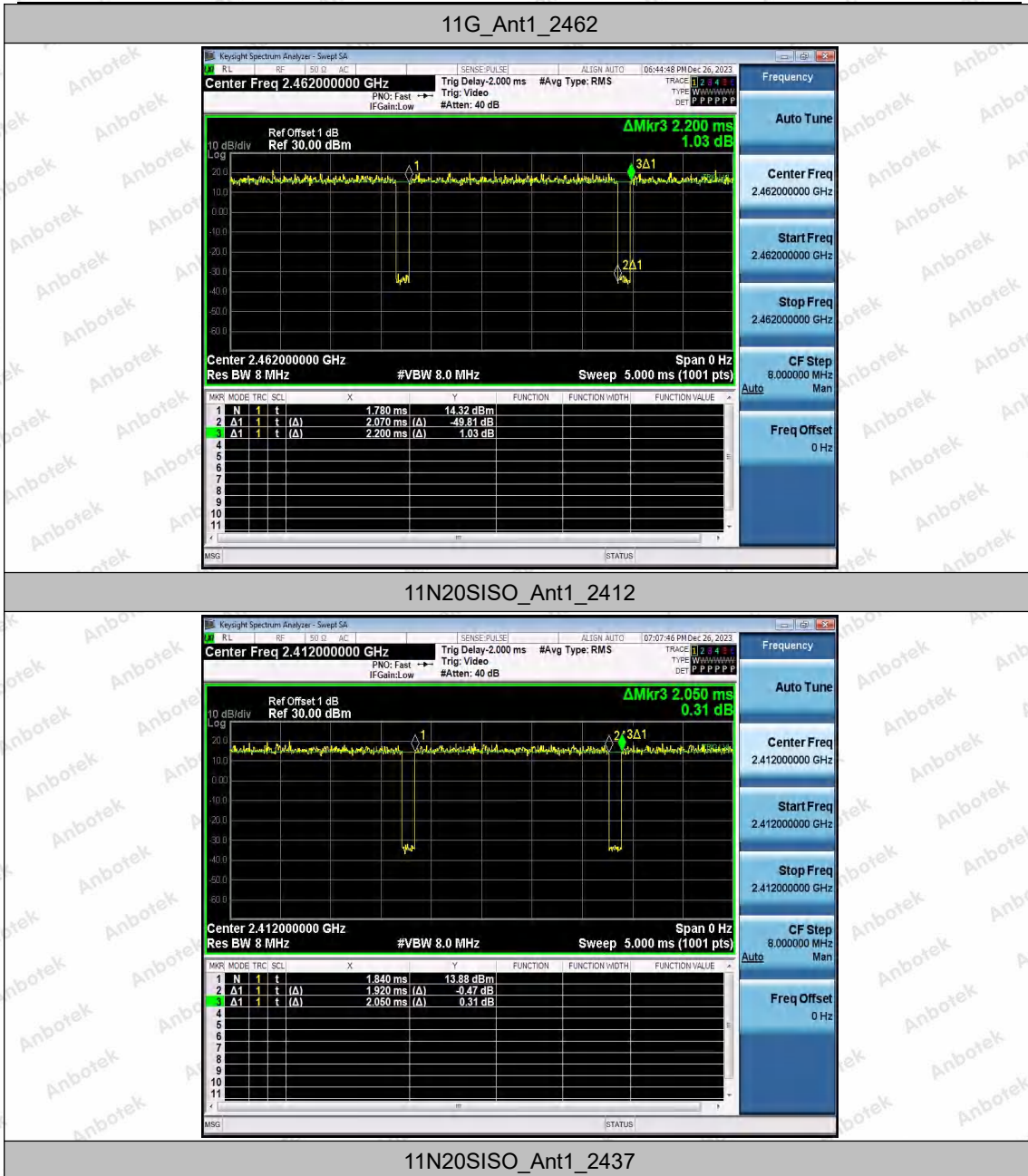


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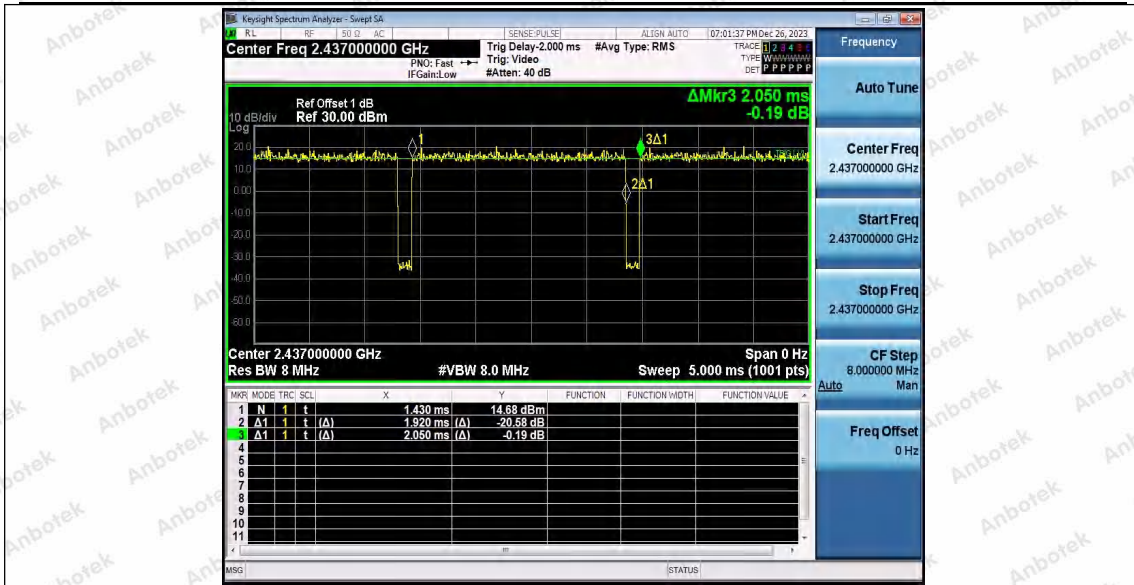


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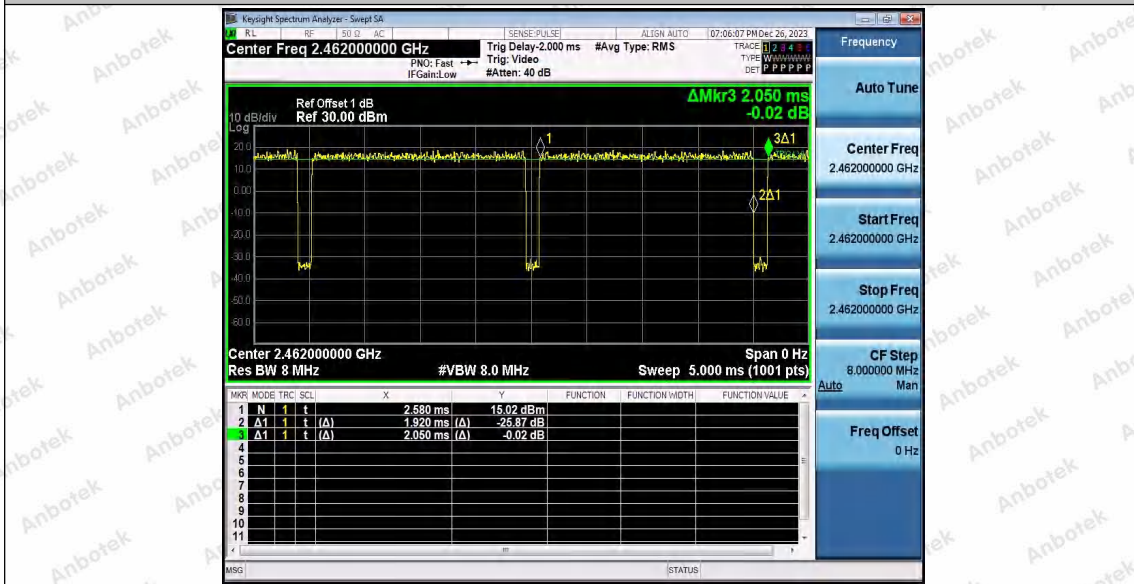
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11N20SISO_Ant1_2462



---End---

