

Appendix Test Data

Report No.:	18220WC40096602	Test Sample No.:	1-2-2
Start Test Date:	2024.05.15	Finish Test Date:	2024.05.23
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	24.8℃	Relative Humidity:	49%
Pressure:	101kPa		

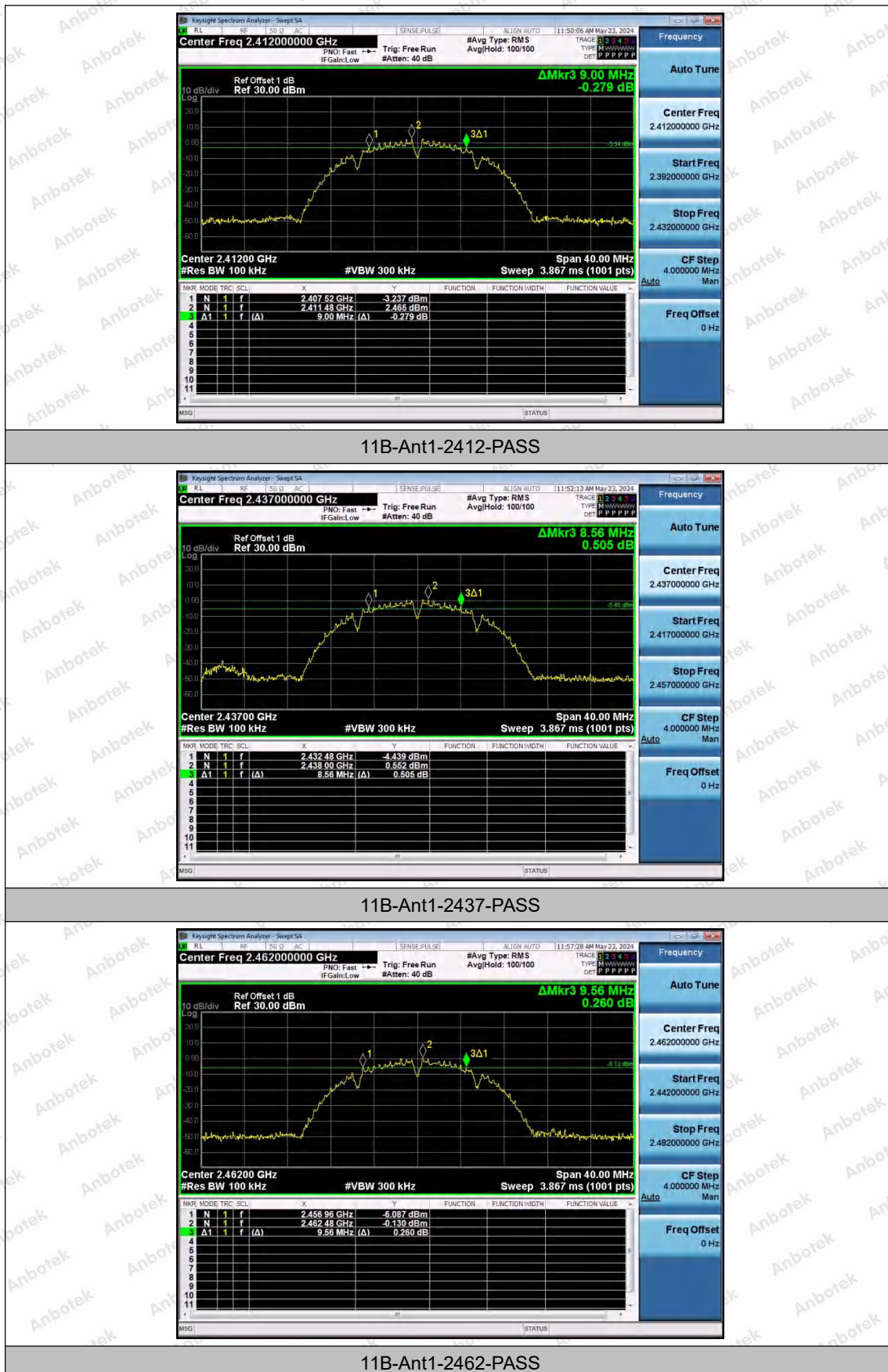
Appendix A: 6dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.000	2407.520	2416.520	0.5	PASS
11B	Ant1	2437	8.560	2432.480	2441.040	0.5	PASS
11B	Ant1	2462	9.560	2456.960	2466.520	0.5	PASS
11G	Ant1	2412	16.040	2403.840	2419.880	0.5	PASS
11G	Ant1	2437	16.320	2428.840	2445.160	0.5	PASS
11G	Ant1	2462	16.280	2453.880	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.200	2420.760	0.5	PASS
11N20SISO	Ant1	2437	17.320	2428.200	2445.520	0.5	PASS
11N20SISO	Ant1	2462	17.600	2453.200	2470.800	0.5	PASS



Test Graphs



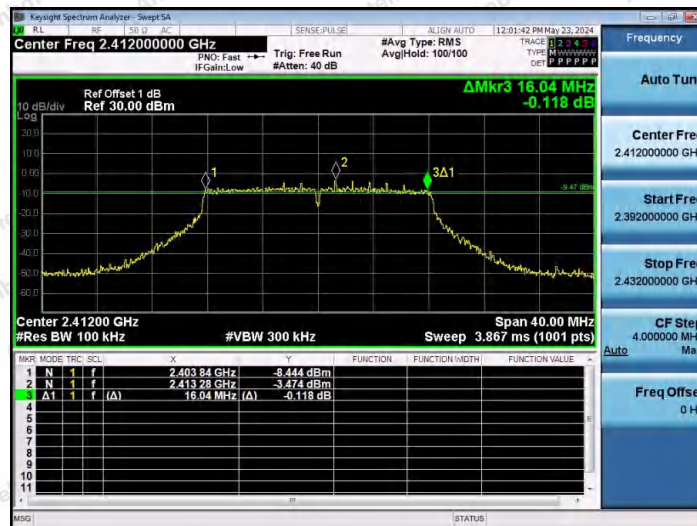
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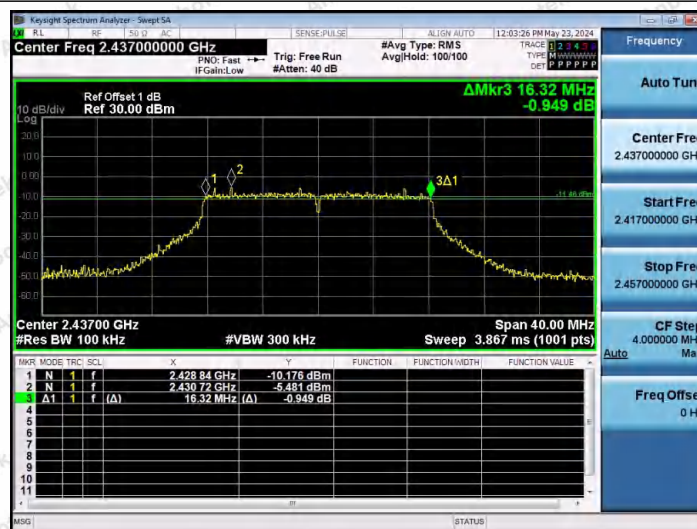


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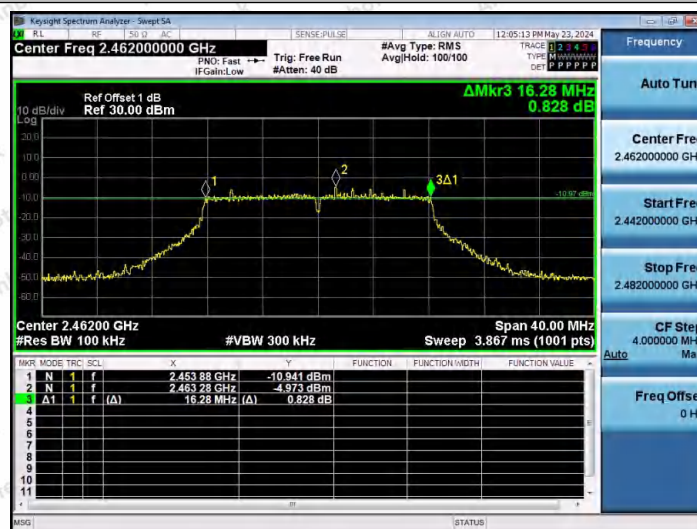




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

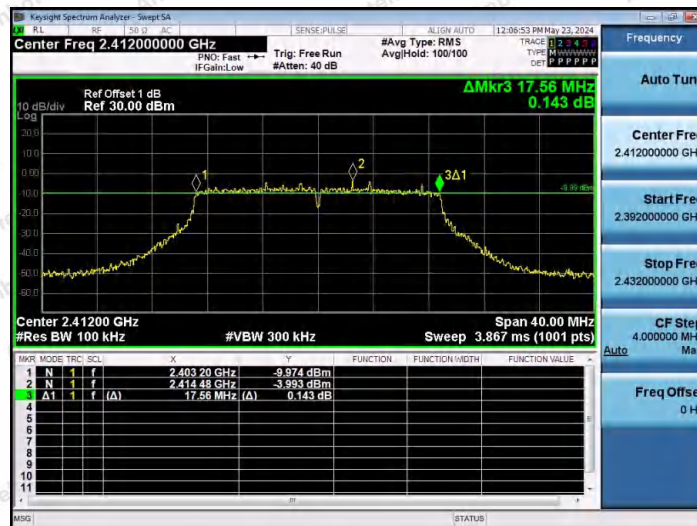
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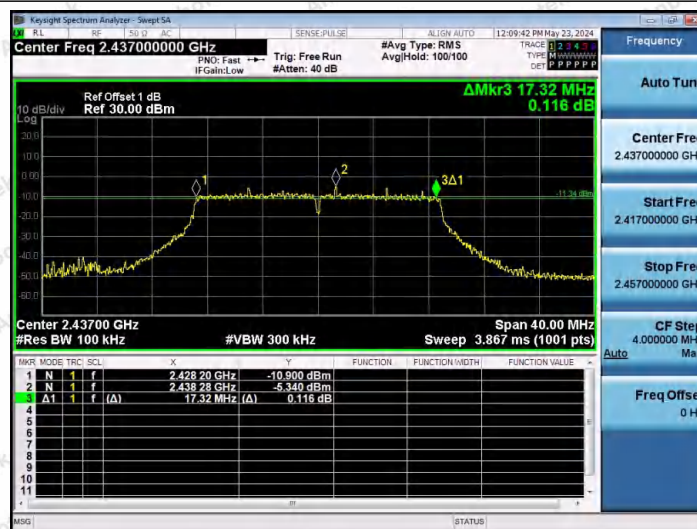


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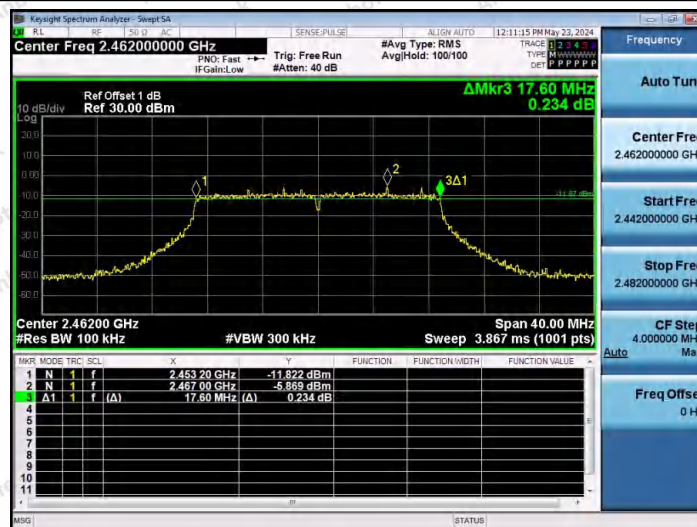




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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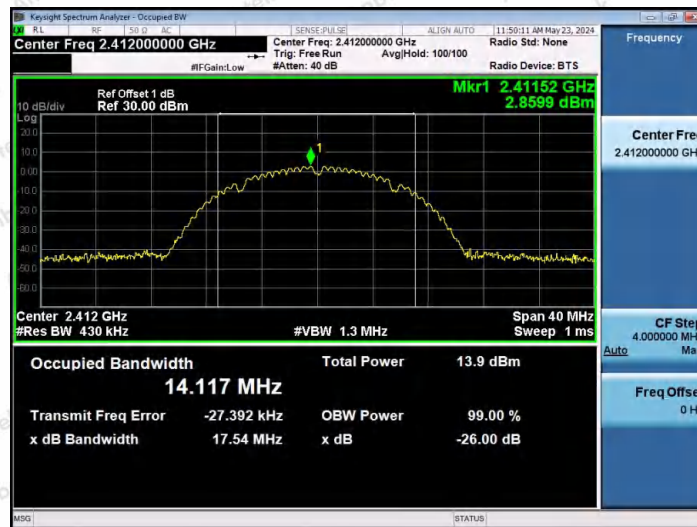
Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.117	2404.9141	2419.0311	---	---
11B	Ant1	2437	14.129	2429.8704	2443.9994	---	---
11B	Ant1	2462	14.132	2454.9702	2469.1022	---	---
11G	Ant1	2412	17.182	2403.3773	2420.5593	---	---
11G	Ant1	2437	17.147	2428.4175	2445.5645	---	---
11G	Ant1	2462	17.162	2453.4688	2470.6308	---	---
11N20SISO	Ant1	2412	18.292	2402.8361	2421.1281	---	---
11N20SISO	Ant1	2437	18.239	2427.8658	2446.1048	---	---
11N20SISO	Ant1	2462	18.154	2452.9828	2471.1368	---	---



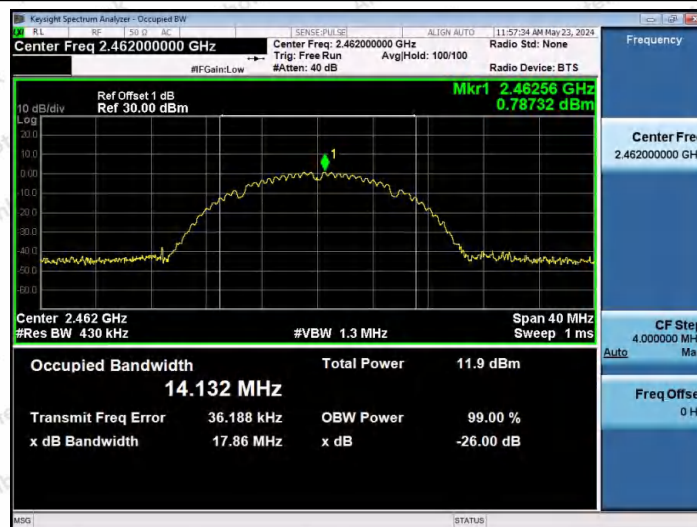
Test Graphs



11B-Ant1-2412



11B-Ant1-2437



11B-Ant1-2462

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11G-Ant1-2412



11G-Ant1-2437



11G-Ant1-2462

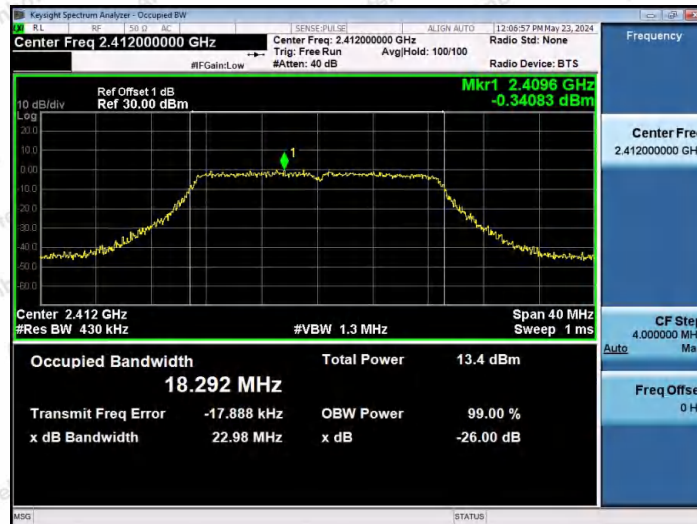
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11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



11N20SISO-Ant1-2462

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Appendix C: Maximum conducted output power

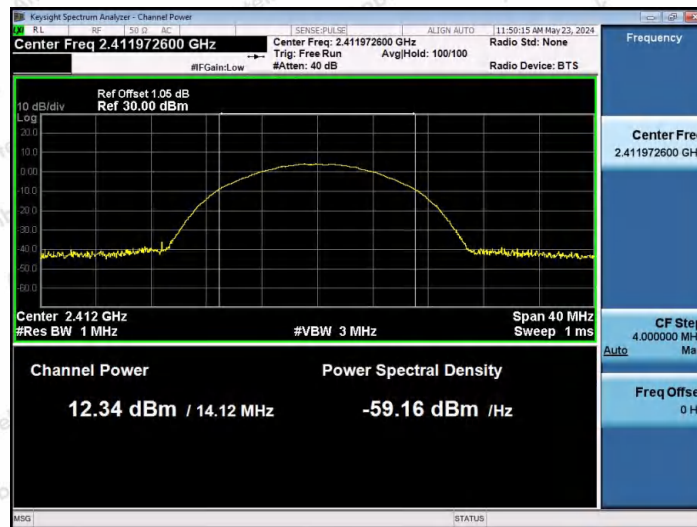
Test Result Average

Test Mode	Antenna	Frequency[MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	12.29	98.96	0.05	12.34	≤30.00	PASS
11B	Ant1	2437	10.60	98.89	0.05	10.65	≤30.00	PASS
11B	Ant1	2462	10.34	99.12	0.04	10.38	≤30.00	PASS
11G	Ant1	2412	11.78	94.06	0.27	12.05	≤30.00	PASS
11G	Ant1	2437	10.46	94.06	0.27	10.73	≤30.00	PASS
11G	Ant1	2462	10.15	94.06	0.27	10.42	≤30.00	PASS
11N20SISO	Ant1	2412	11.75	93.66	0.28	12.03	≤30.00	PASS
11N20SISO	Ant1	2437	10.39	93.66	0.28	10.67	≤30.00	PASS
11N20SISO	Ant1	2462	10.17	93.66	0.28	10.45	≤30.00	PASS

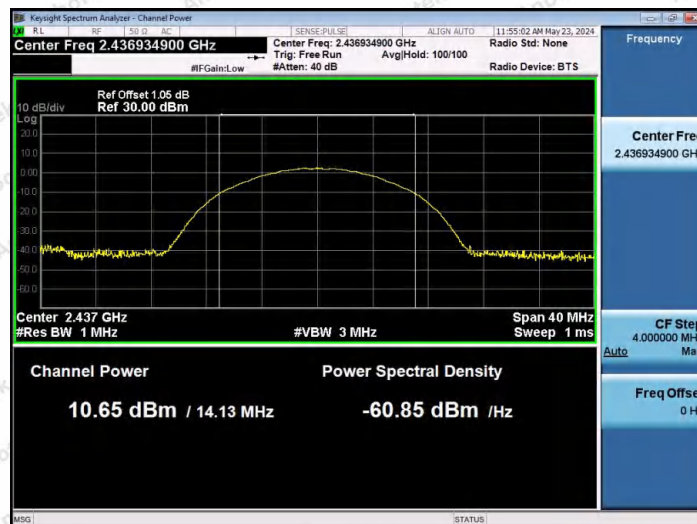
Note: The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.



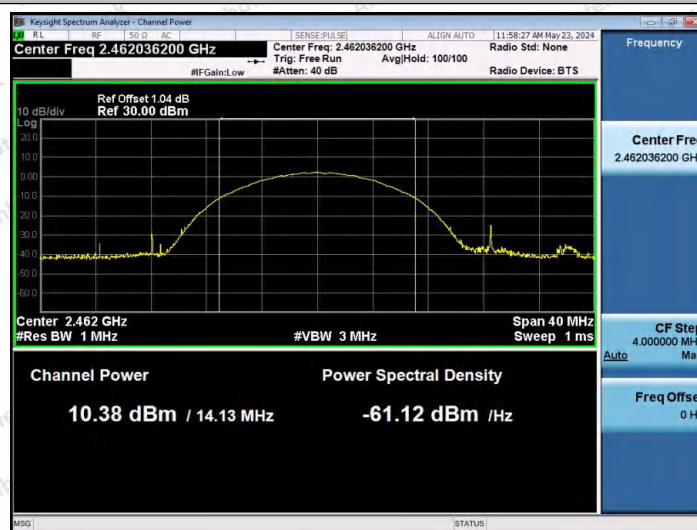
Test Graphs Average



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

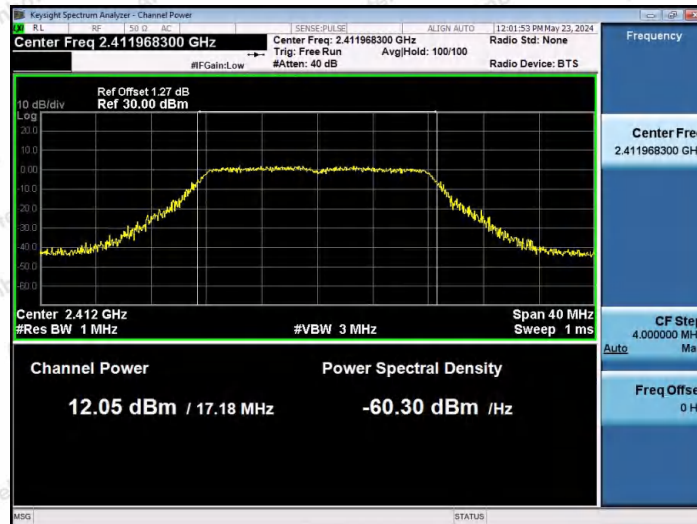
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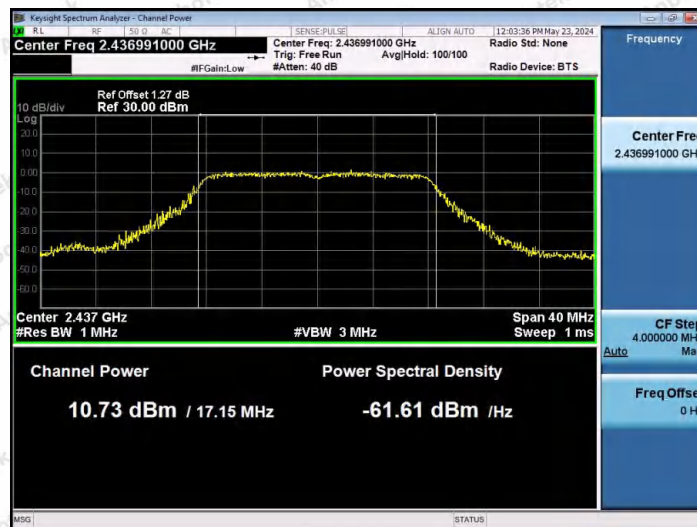


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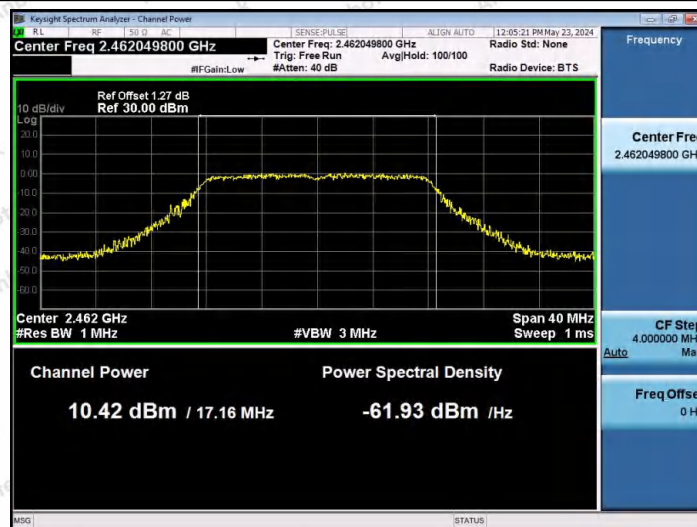




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

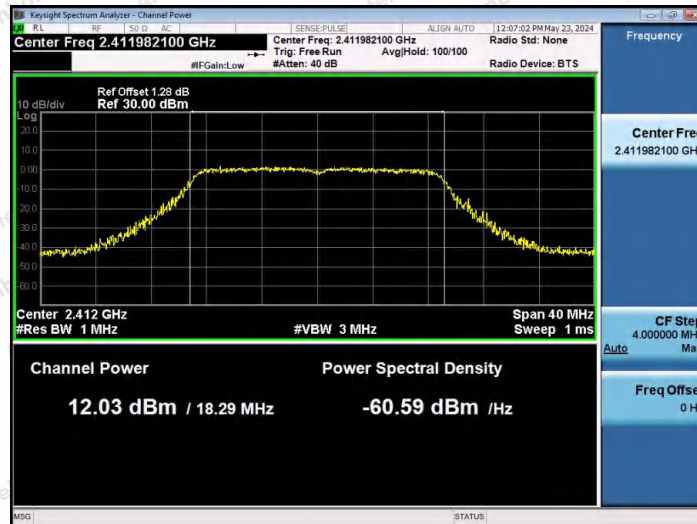
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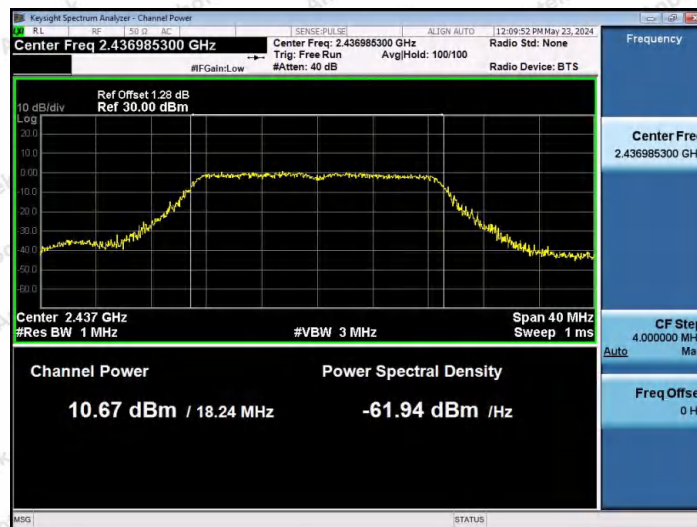


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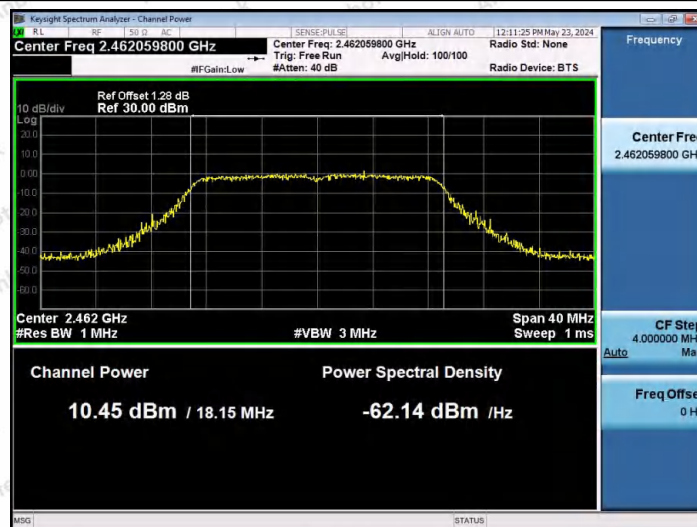




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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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	-10.63	-20.63	≤8.00	PASS
11B	Ant1	2437	-12.60	-22.60	≤8.00	PASS
11B	Ant1	2462	-12.87	-22.87	≤8.00	PASS
11G	Ant1	2412	-16.46	-26.46	≤8.00	PASS
11G	Ant1	2437	-18.07	-28.07	≤8.00	PASS
11G	Ant1	2462	-18.47	-28.47	≤8.00	PASS
11N20SIS O	Ant1	2412	-17.12	-27.12	≤8.00	PASS
11N20SIS O	Ant1	2437	-18.72	-28.72	≤8.00	PASS
11N20SIS O	Ant1	2462	-18.92	-28.92	≤8.00	PASS

Note:

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



Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

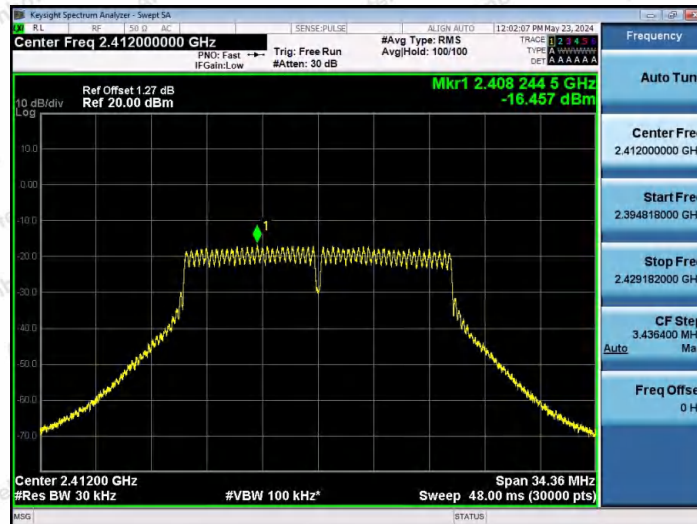
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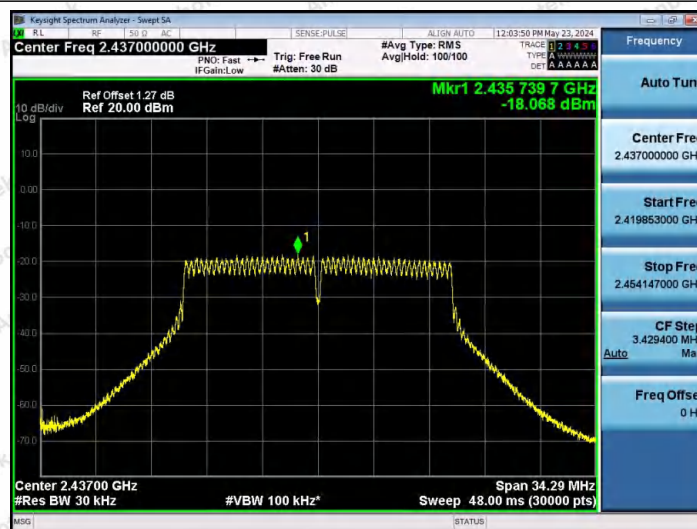


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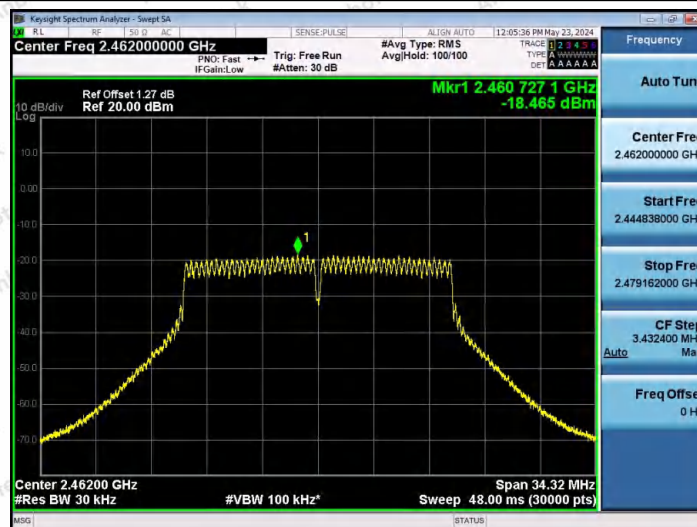




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

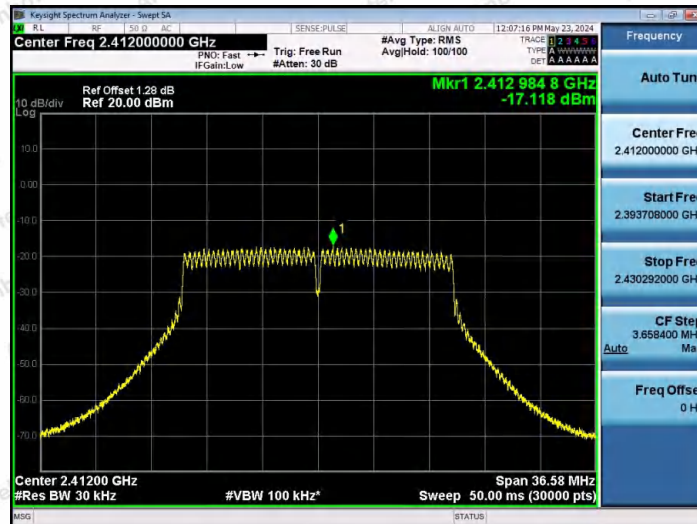
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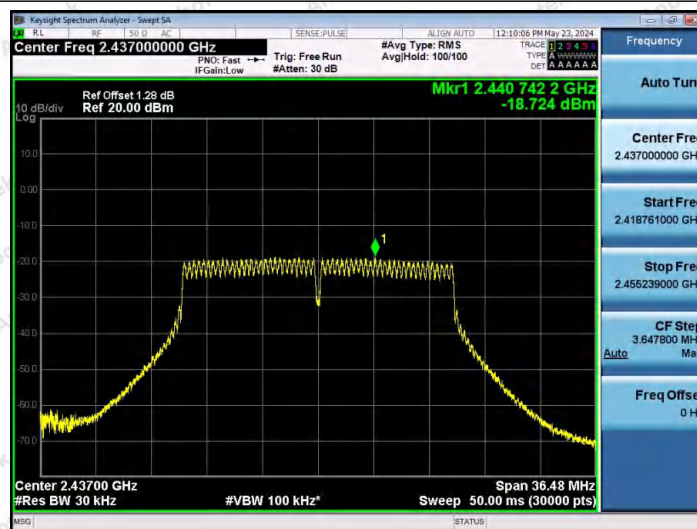


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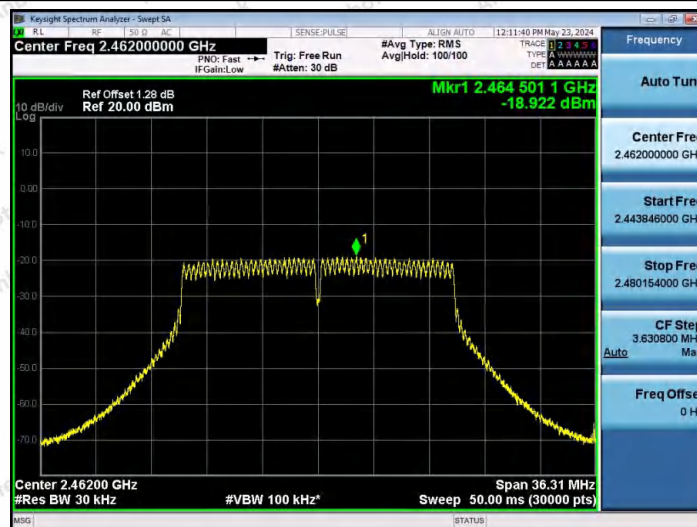




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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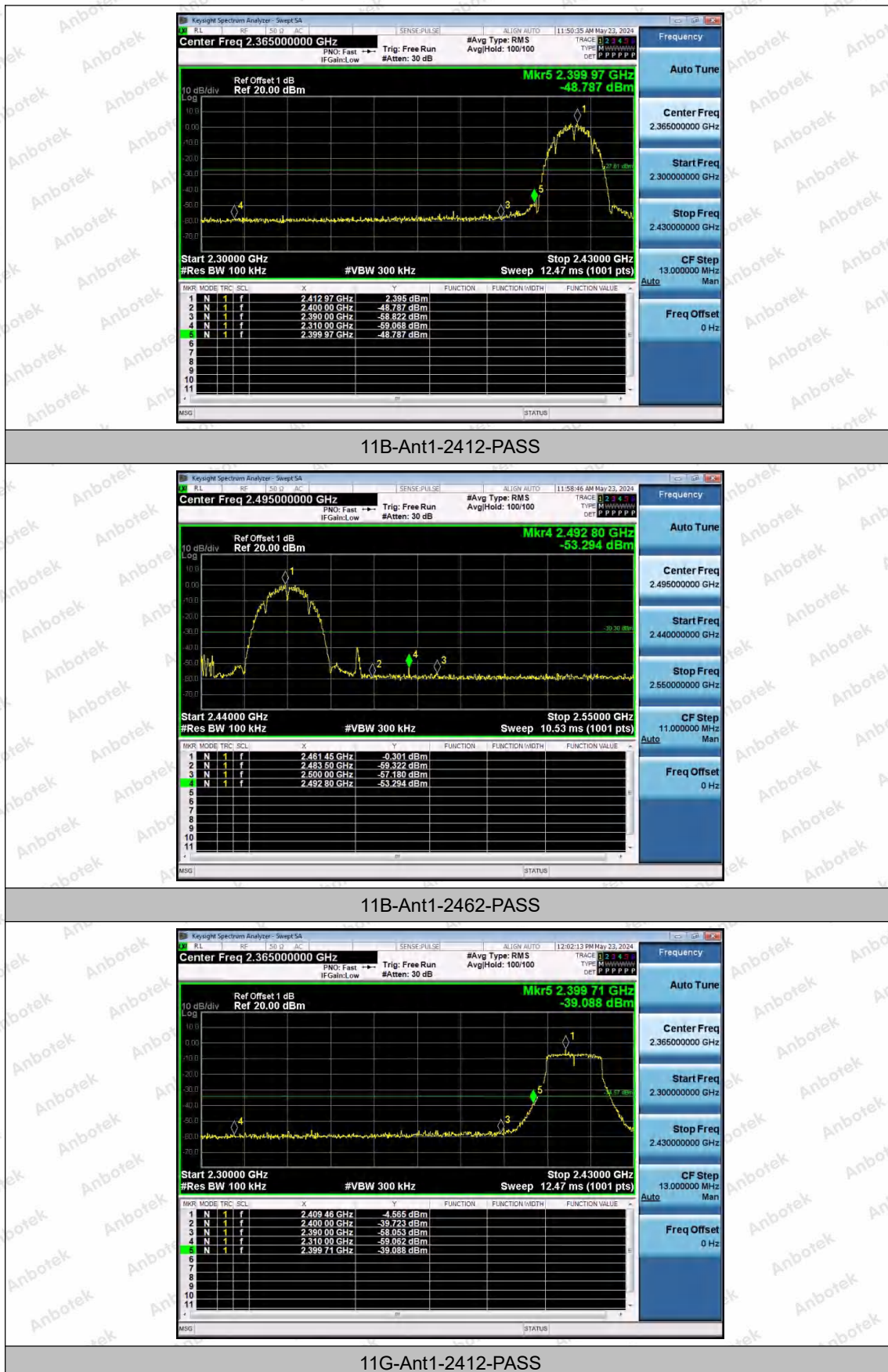
Appendix E: Conducted Band edge

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.40	-48.79	≤-27.61	PASS
11B	Ant1	High	2462	-0.30	-53.29	≤-30.3	PASS
11G	Ant1	Low	2412	-4.57	-39.09	≤-34.57	PASS
11G	Ant1	High	2462	-5.73	-55.95	≤-35.73	PASS
11N20SISO	Ant1	Low	2412	-4.40	-36.74	≤-34.4	PASS
11N20SISO	Ant1	High	2462	-6.06	-55.95	≤-36.06	PASS



Test Graphs



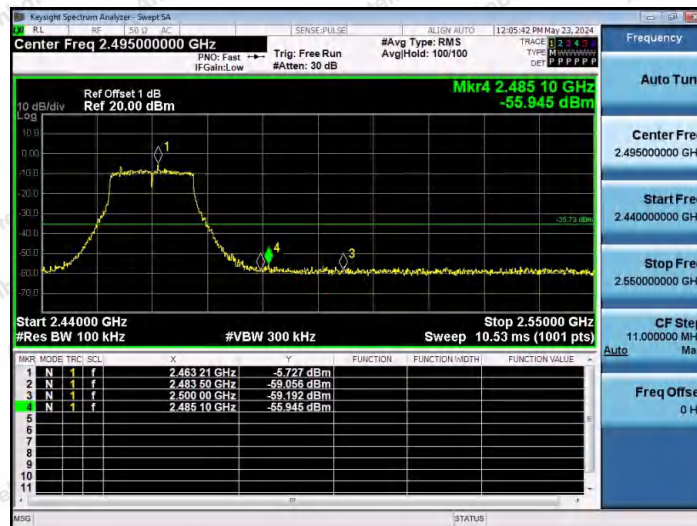
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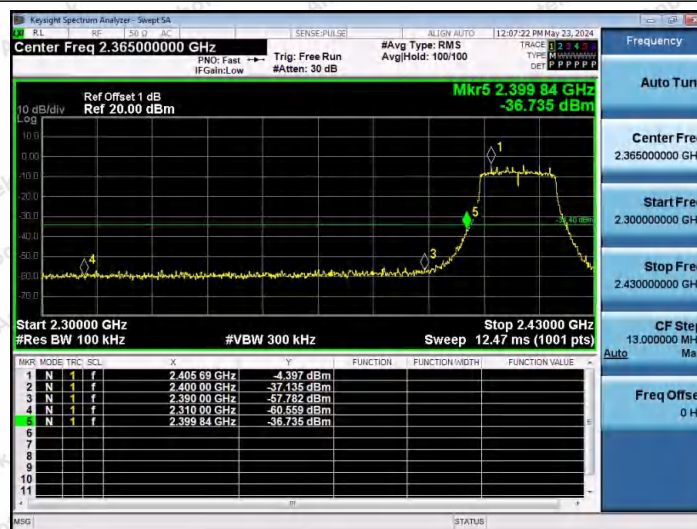


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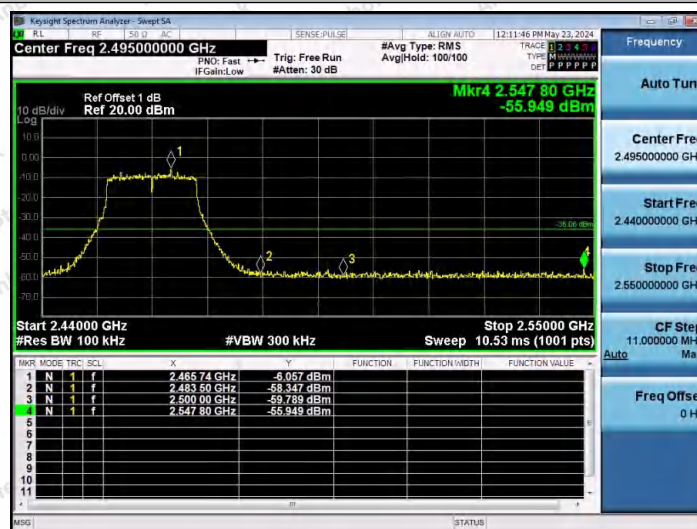




11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS

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Appendix F: Conducted Spurious Emission

Test Result

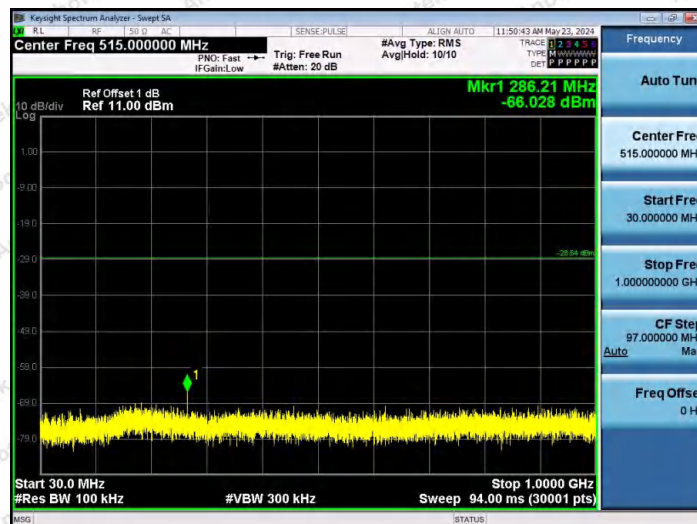
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	1.36	1.36	---	PASS
11B	Ant1	2412	30~1000	1.36	-66.03	≤-28.64	PASS
11B	Ant1	2412	1000~26500	1.36	-49.92	≤-28.64	PASS
11B	Ant1	2437	0~Reference	-0.07	-0.07	---	PASS
11B	Ant1	2437	30~1000	-0.07	-68.53	≤-30.07	PASS
11B	Ant1	2437	1000~26500	-0.07	-54.04	≤-30.07	PASS
11B	Ant1	2462	0~Reference	-0.85	-0.85	---	PASS
11B	Ant1	2462	30~1000	-0.85	-67.01	≤-30.85	PASS
11B	Ant1	2462	1000~26500	-0.85	-52.91	≤-30.85	PASS
11G	Ant1	2412	0~Reference	-3.92	-3.92	---	PASS
11G	Ant1	2412	30~1000	-3.92	-67.33	≤-33.92	PASS
11G	Ant1	2412	1000~26500	-3.92	-54.01	≤-33.92	PASS
11G	Ant1	2437	0~Reference	-6.57	-6.57	---	PASS
11G	Ant1	2437	30~1000	-6.57	-67.1	≤-36.57	PASS
11G	Ant1	2437	1000~26500	-6.57	-53.2	≤-36.57	PASS
11G	Ant1	2462	0~Reference	-8.78	-8.78	---	PASS
11G	Ant1	2462	30~1000	-8.78	-68.1	≤-38.78	PASS
11G	Ant1	2462	1000~26500	-8.78	-53.83	≤-38.78	PASS
11N20SISO	Ant1	2412	0~Reference	-7.37	-7.37	---	PASS
11N20SISO	Ant1	2412	30~1000	-7.37	-66.69	≤-37.37	PASS
11N20SISO	Ant1	2412	1000~26500	-7.37	-53.04	≤-37.37	PASS
11N20SISO	Ant1	2437	0~Reference	-8.48	-8.48	---	PASS
11N20SISO	Ant1	2437	30~1000	-8.48	-66.75	≤-38.48	PASS
11N20SISO	Ant1	2437	1000~26500	-8.48	-53.63	≤-38.48	PASS
11N20SISO	Ant1	2462	0~Reference	-5.94	-5.94	---	PASS
11N20SISO	Ant1	2462	30~1000	-5.94	-66.06	≤-35.94	PASS
11N20SISO	Ant1	2462	1000~26500	-5.94	-53.35	≤-35.94	PASS



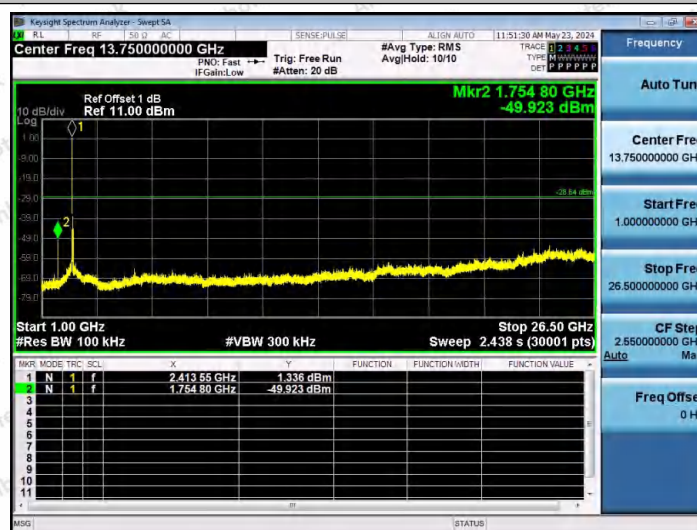
Test Graphs



11B-Ant1-2412-0~Reference-PASS



11B-Ant1-2412-30~1000-PASS



11B-Ant1-2412-1000~26500-PASS

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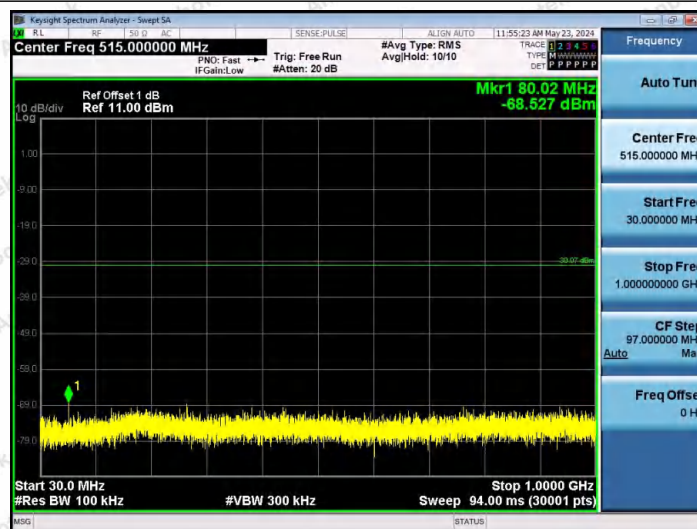


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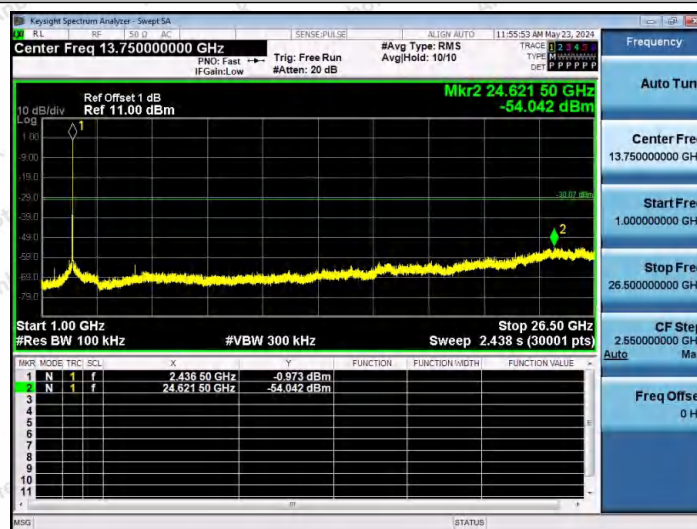




11B-Ant1-2437-0~Reference-PASS



11B-Ant1-2437-30~1000-PASS



11B-Ant1-2437-1000~26500-PASS

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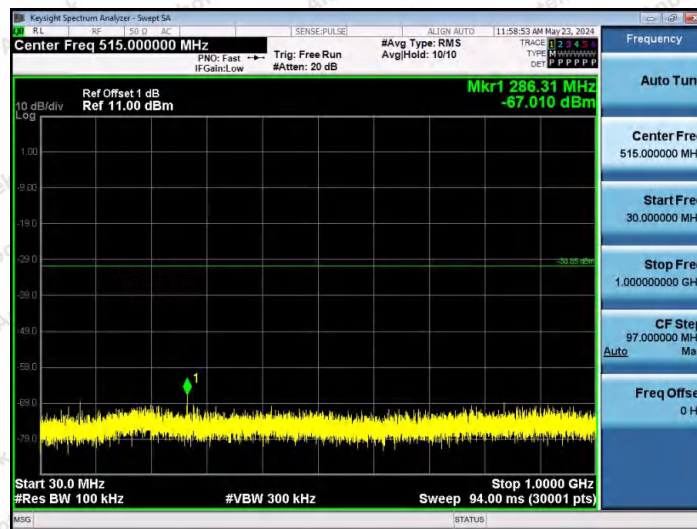


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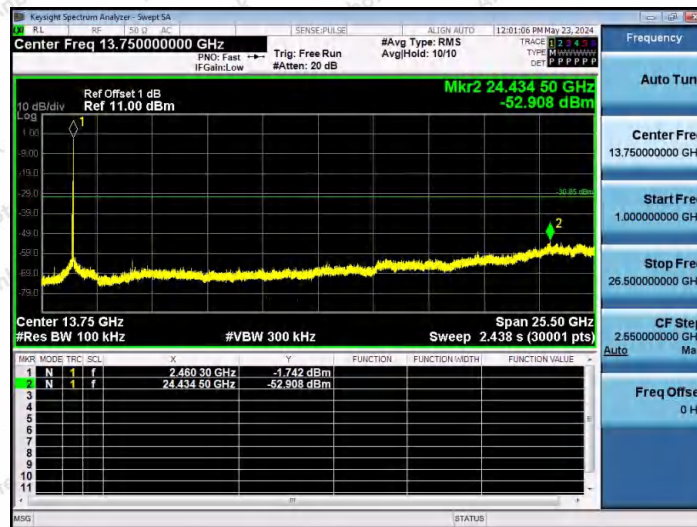




11B-Ant1-2462-0~Reference-PASS



11B-Ant1-2462-30~1000-PASS



11B-Ant1-2462-1000~26500-PASS

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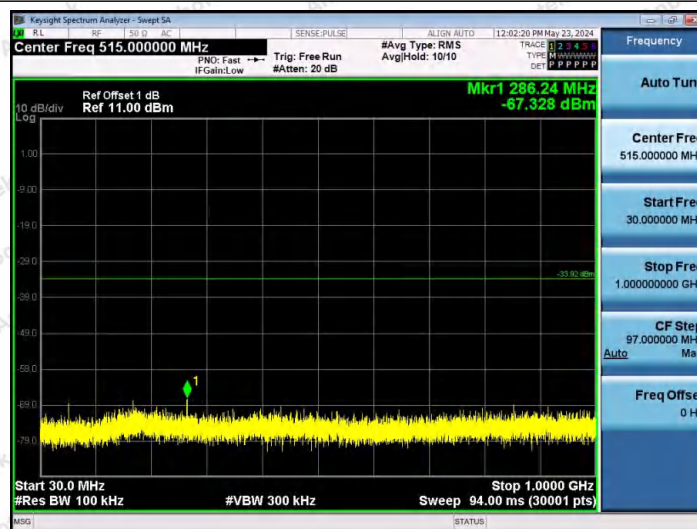
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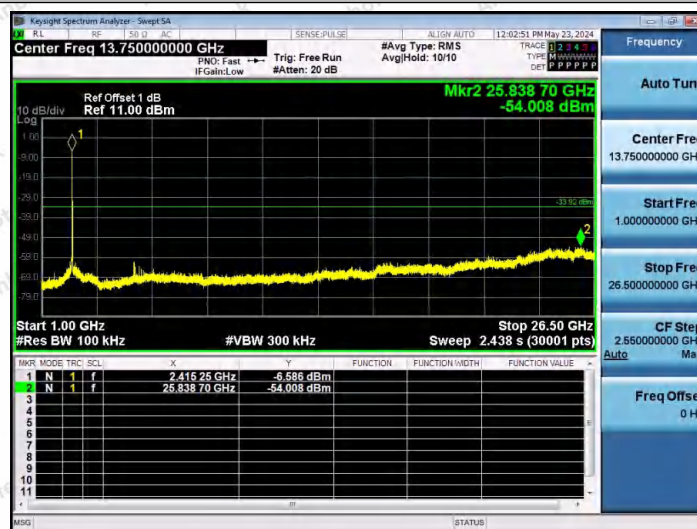




11G-Ant1-2412-0~Reference-PASS



11G-Ant1-2412-30~1000-PASS



11G-Ant1-2412-1000~26500-PASS

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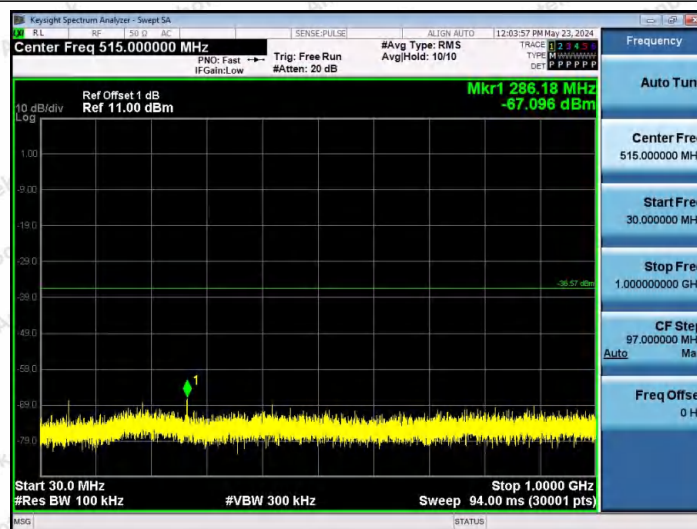


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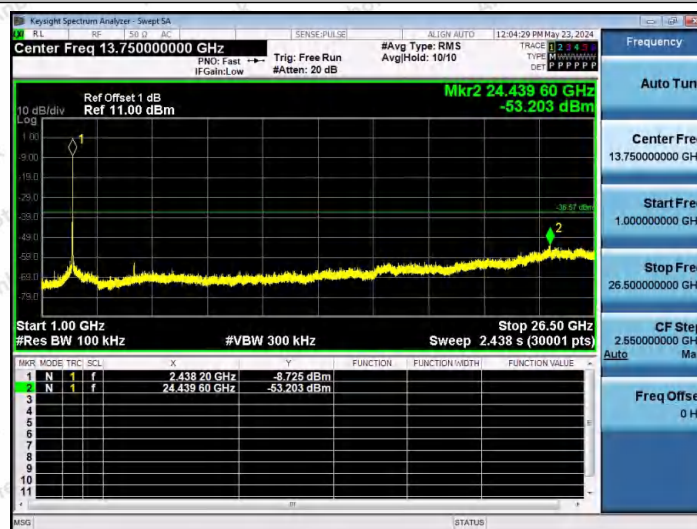




11G-Ant1-2437-0~Reference-PASS



11G-Ant1-2437-30~1000-PASS



11G-Ant1-2437-1000~26500-PASS

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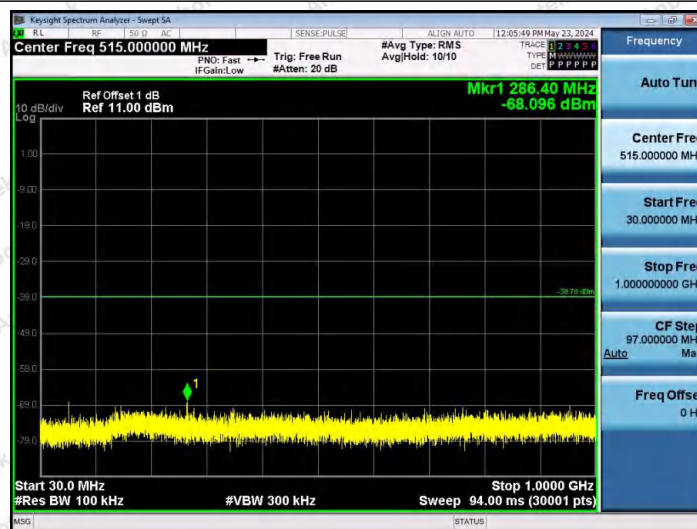


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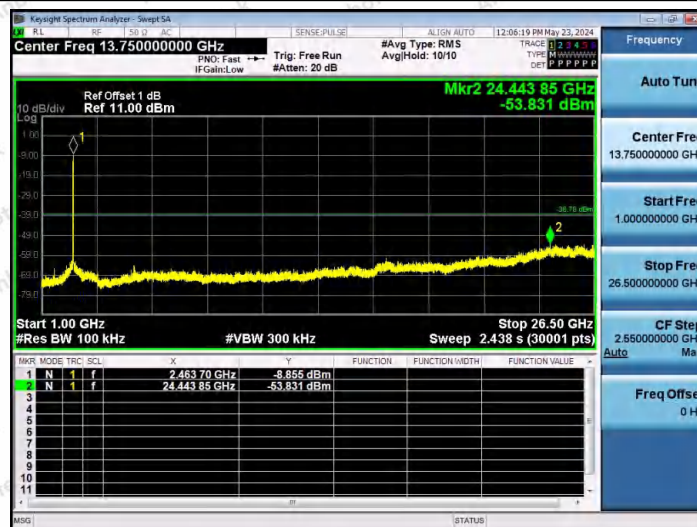




11G-Ant1-2462-0~Reference-PASS



11G-Ant1-2462-30~1000-PASS



11G-Ant1-2462-1000~26500-PASS

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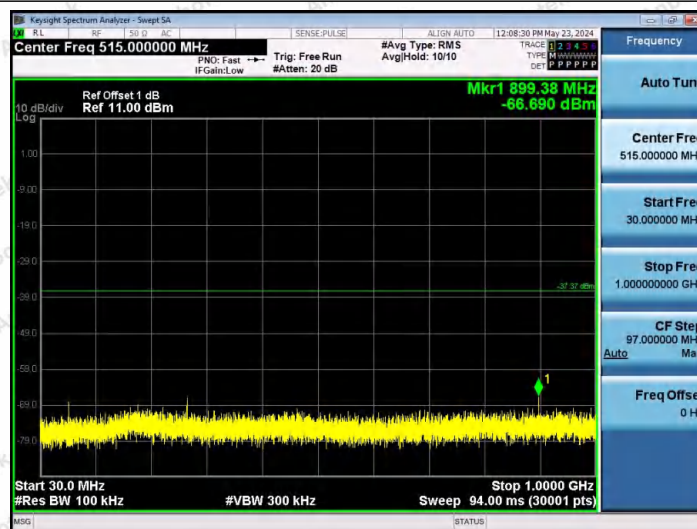


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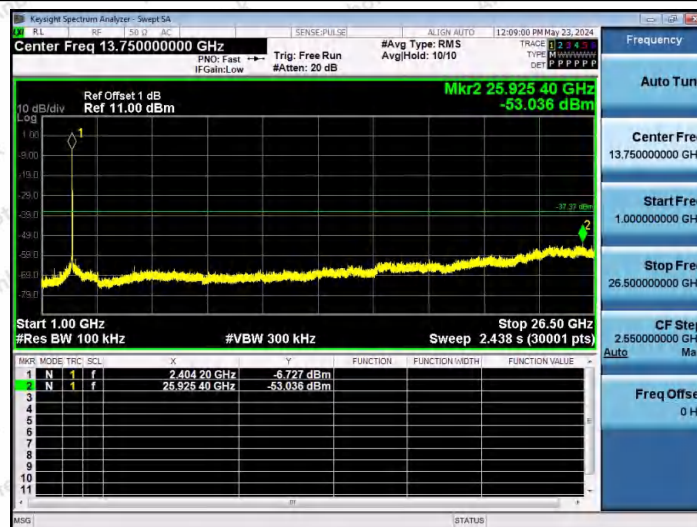




11N20SISO-Ant1-2412-0~Reference-PASS



11N20SISO-Ant1-2412-30~1000-PASS



11N20SISO-Ant1-2412-1000~26500-PASS

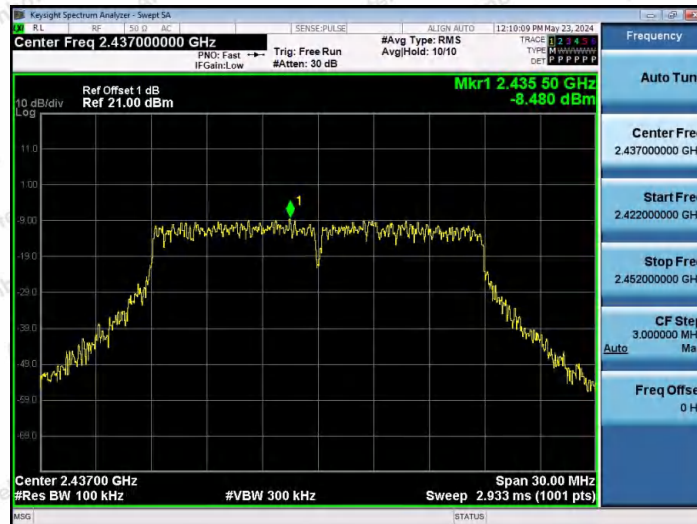
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

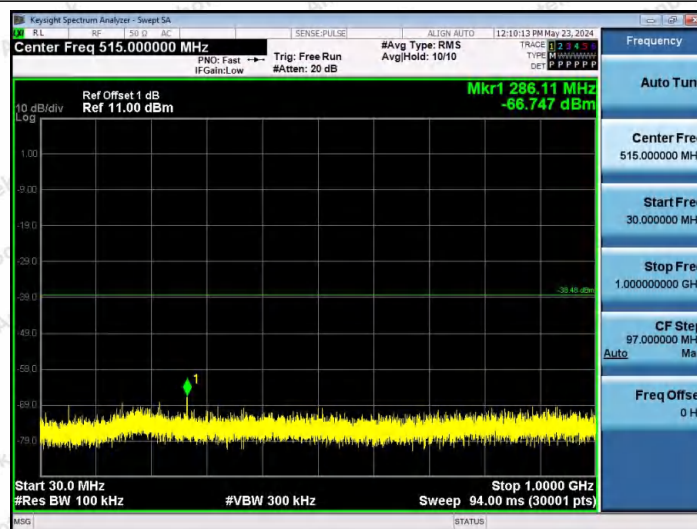


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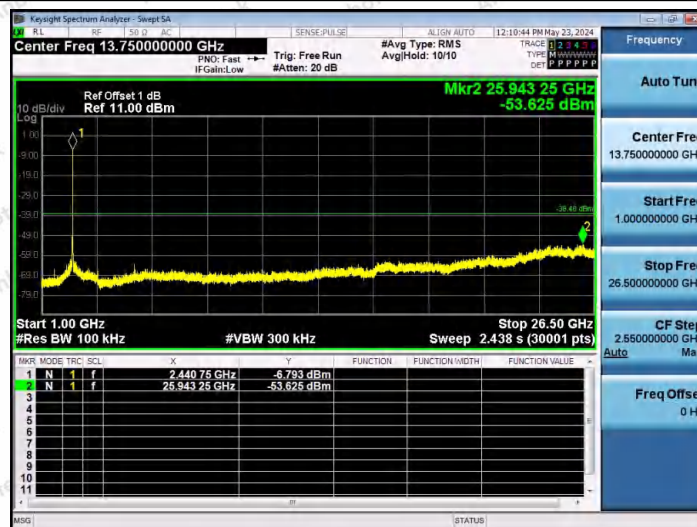




11N20SISO-Ant1-2437-0~Reference-PASS



11N20SISO-Ant1-2437-30~1000-PASS



11N20SISO-Ant1-2437-1000~26500-PASS

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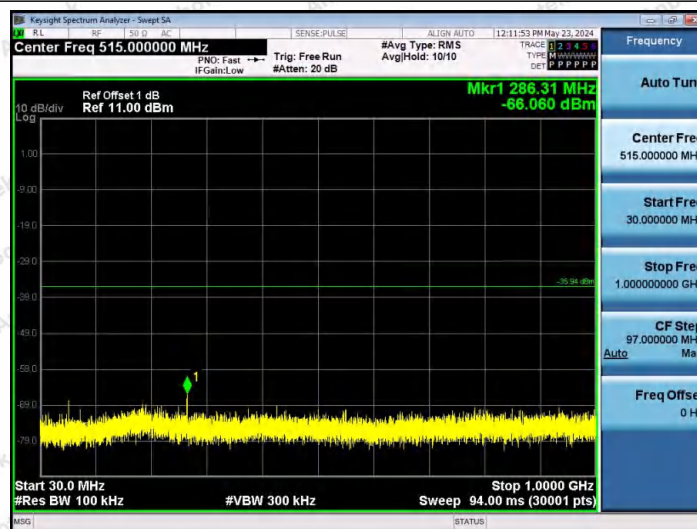


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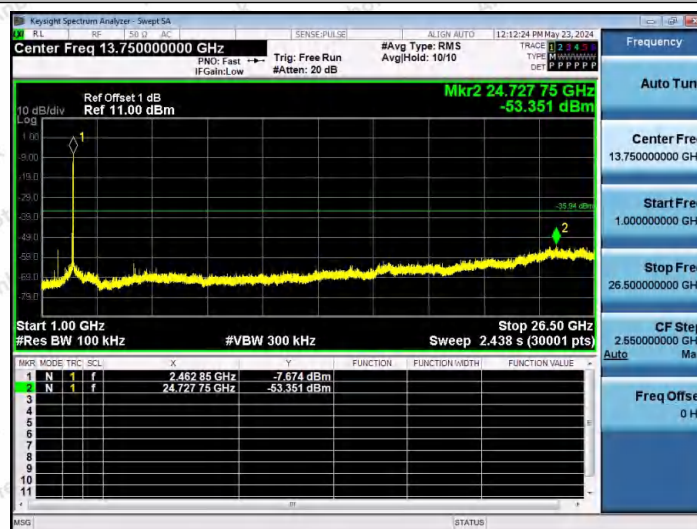




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11N20SISO-Ant1-2462-30~1000-PASS



11N20SISO-Ant1-2462-1000~26500-PASS

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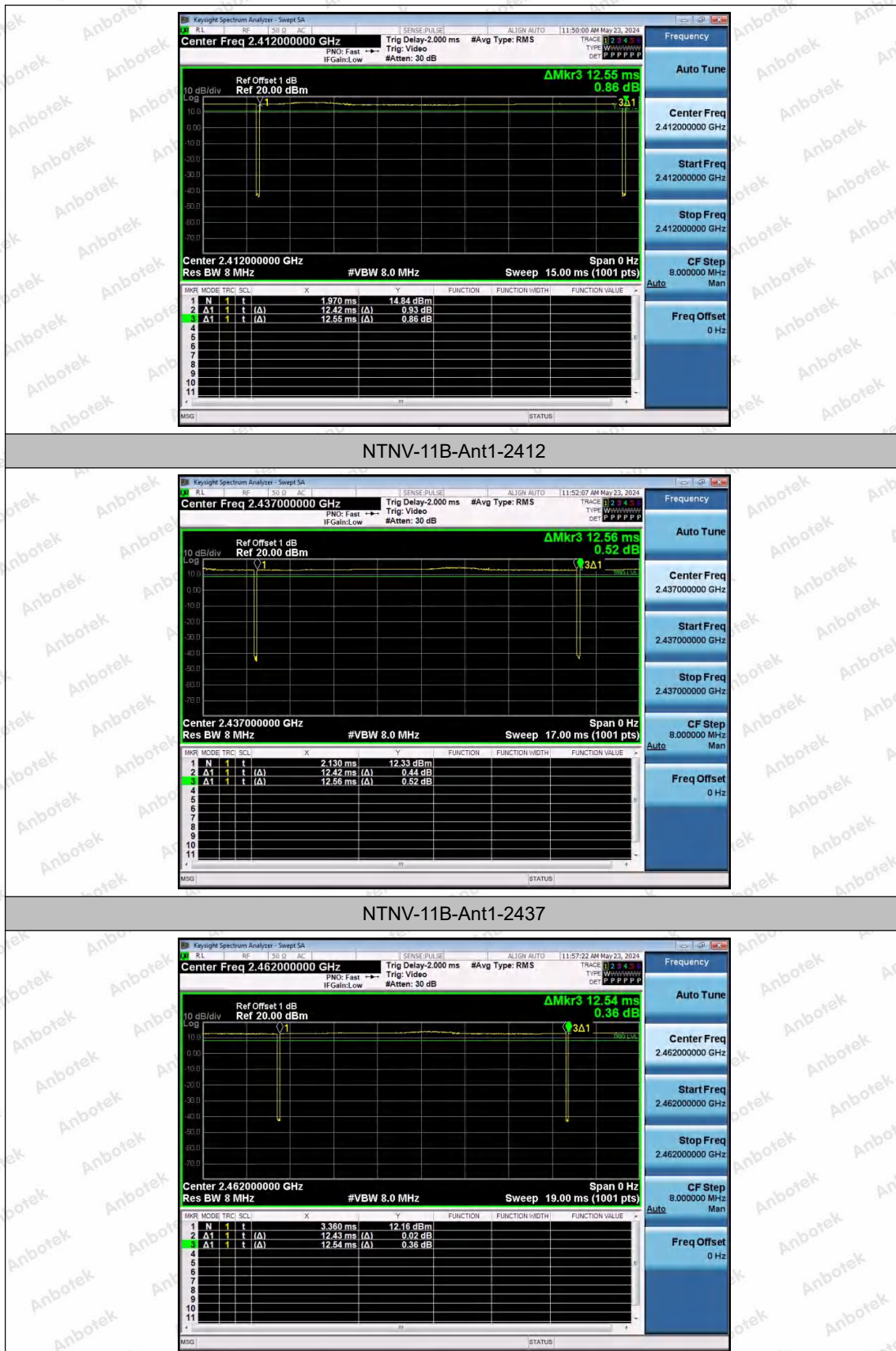
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.42	12.55	98.96	0.05
11B	Ant1	2437	12.42	12.56	98.89	0.05
11B	Ant1	2462	12.43	12.54	99.12	0.04
11G	Ant1	2412	2.06	2.19	94.06	0.27
11G	Ant1	2437	2.06	2.19	94.06	0.27
11G	Ant1	2462	2.06	2.19	94.06	0.27
11N20SISO	Ant1	2412	1.92	2.05	93.66	0.28
11N20SISO	Ant1	2437	1.92	2.05	93.66	0.28
11N20SISO	Ant1	2462	1.92	2.05	93.66	0.28



Test Graphs



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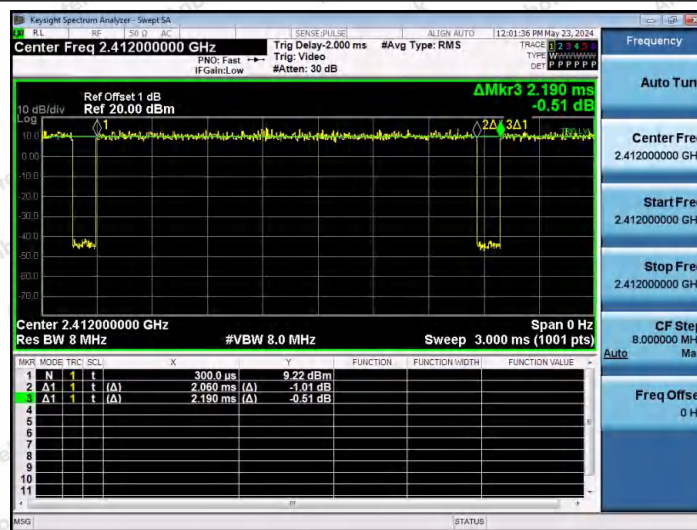
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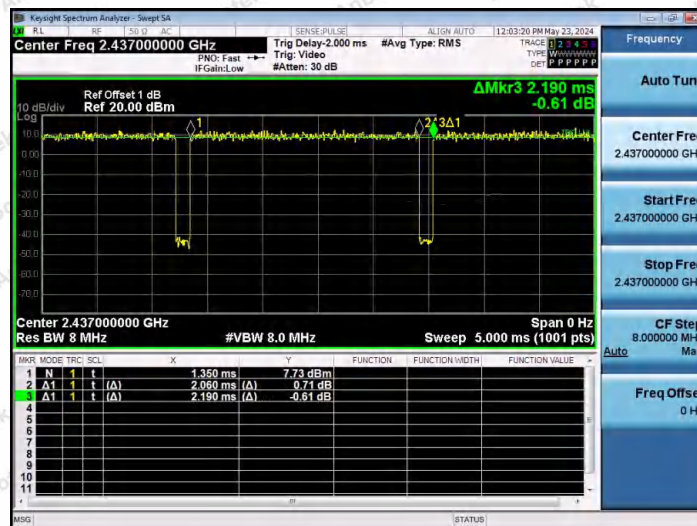
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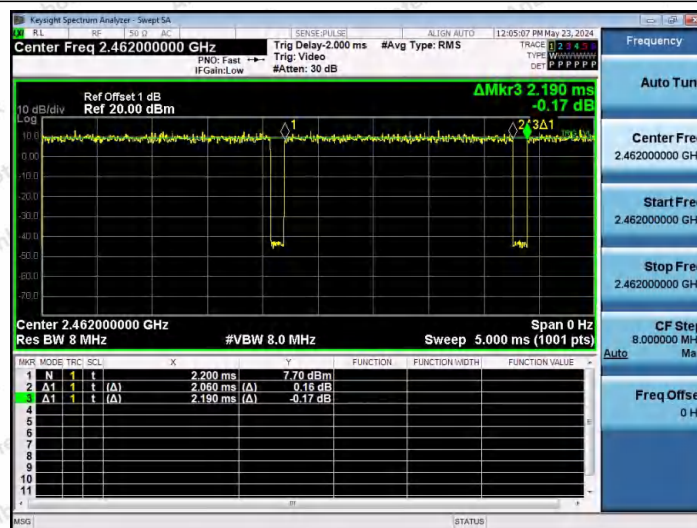
NTNV-11B-Ant1-2462



NTNV-11G-Ant1-2412



NTNV-11G-Ant1-2437



NTNV-11G-Ant1-2462

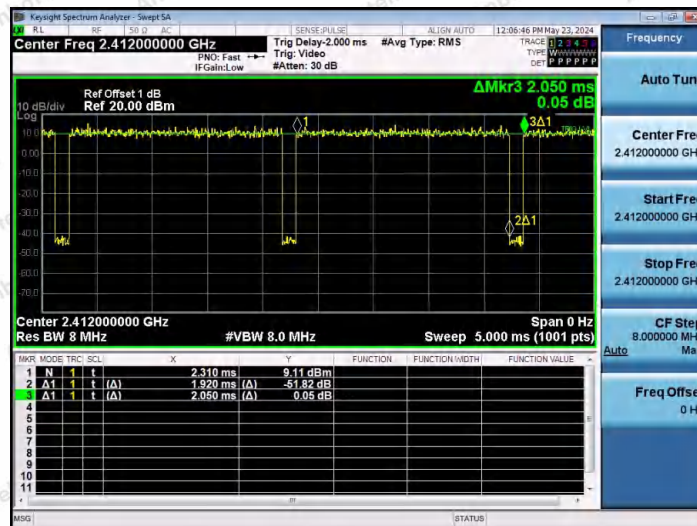
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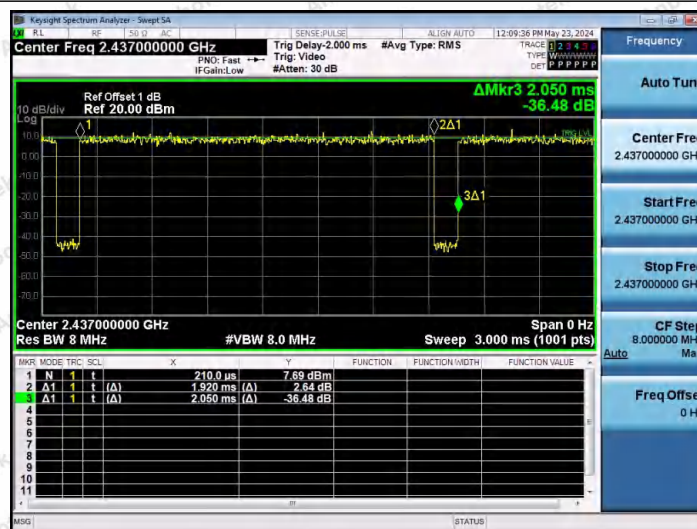


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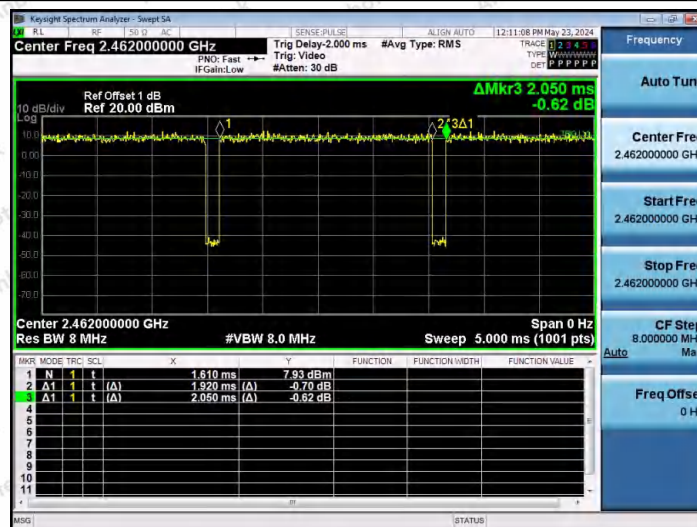




NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437



NTNV-11N20SISO-Ant1-2462

---End---

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