

Appendix Test Data

Report No.:	182514C400025102	Test Sample No.:	1-2-2
Start Test Date:	2024.6.4	Finish Test Date:	2024.6.14
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25.3℃	Relative Humidity:	48%
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	10.080	2406.960	2417.040	0.5	PASS
11B	Ant1	2437	9.520	2432.040	2441.560	0.5	PASS
11B	Ant1	2462	10.040	2457.000	2467.040	0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	0.5	PASS
11G	Ant1	2437	16.360	2428.840	2445.200	0.5	PASS
11G	Ant1	2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.240	2420.800	0.5	PASS
11N20SISO	Ant1	2437	17.600	2428.200	2445.800	0.5	PASS
11N20SISO	Ant1	2462	17.600	2453.200	2470.800	0.5	PASS



Test Graphs



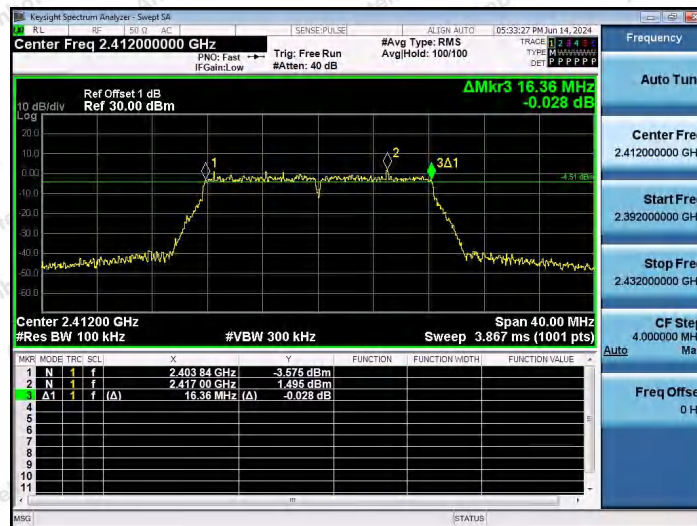
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

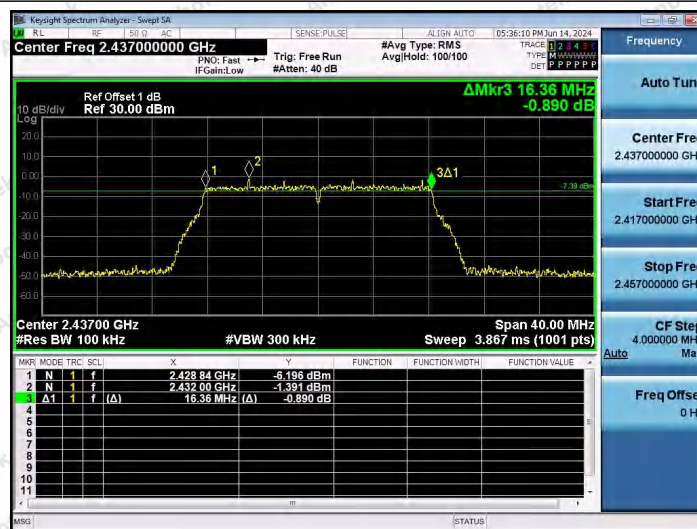


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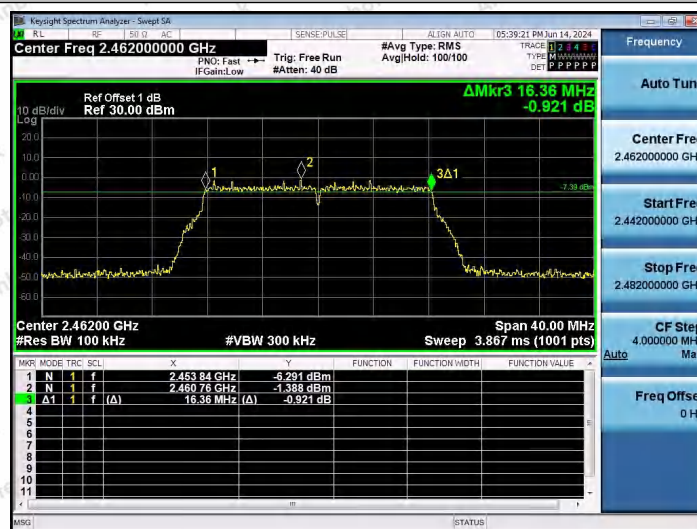




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



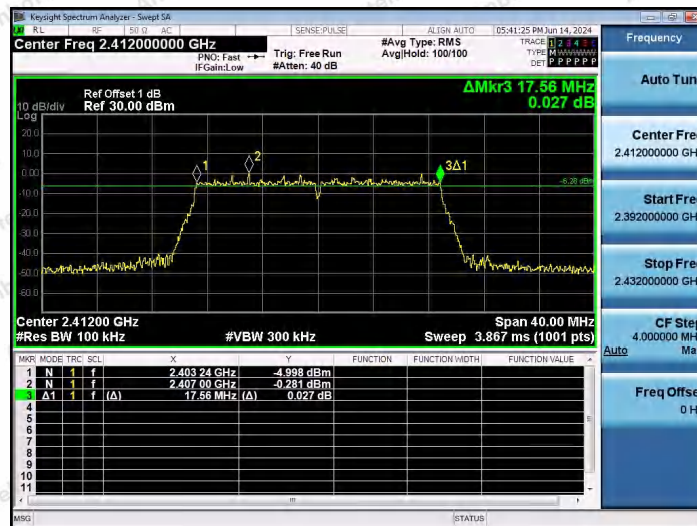
11G-Ant1-2462-PASS

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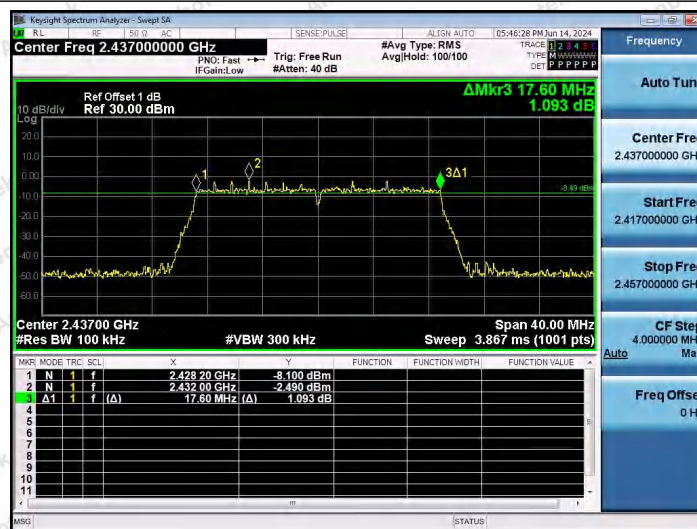
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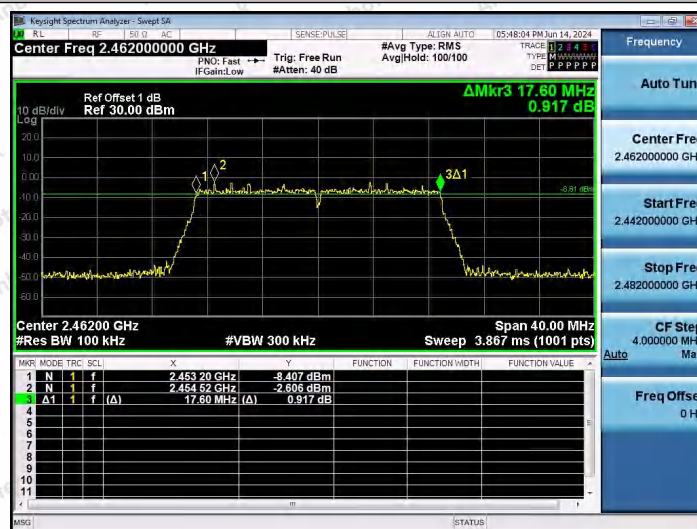




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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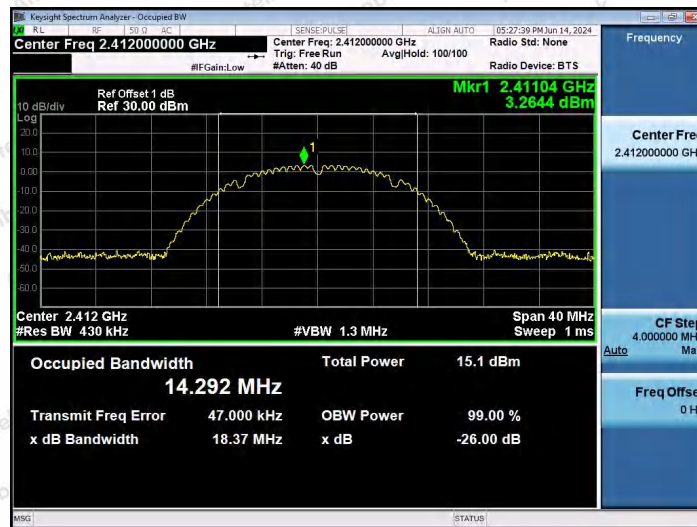
Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.292	2404.9010	2419.1930	---	---
11B	Ant1	2437	14.290	2429.8921	2444.1821	---	---
11B	Ant1	2462	14.277	2454.8959	2469.1729	---	---
11G	Ant1	2412	17.051	2403.5430	2420.5940	---	---
11G	Ant1	2437	17.064	2428.4868	2445.5508	---	---
11G	Ant1	2462	17.035	2453.5260	2470.5610	---	---
11N20SISO	Ant1	2412	18.013	2403.0454	2421.0584	---	---
11N20SISO	Ant1	2437	17.922	2428.0897	2446.0117	---	---
11N20SISO	Ant1	2462	17.938	2453.0638	2471.0018	---	---



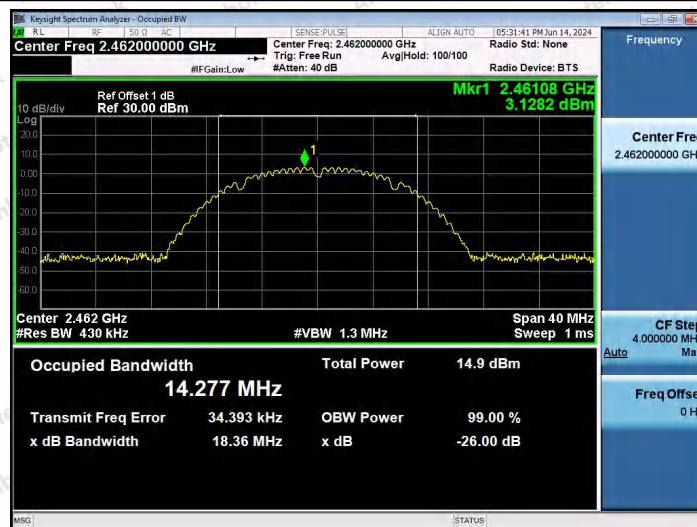
Test Graphs



11B-Ant1-2412



11B-Ant1-2437



11B-Ant1-2462

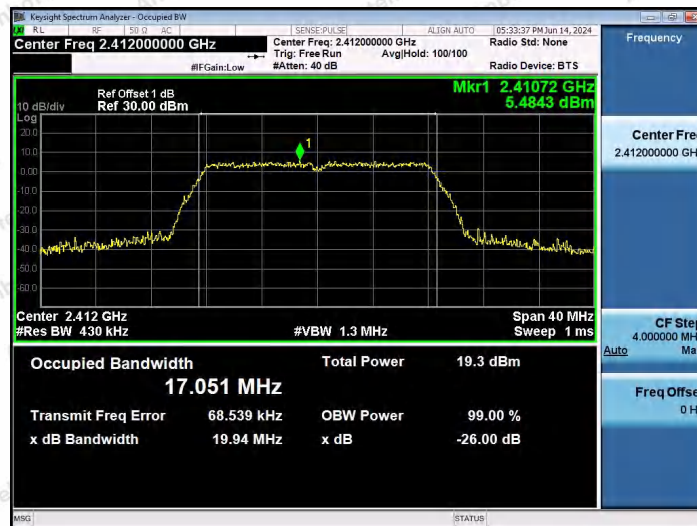
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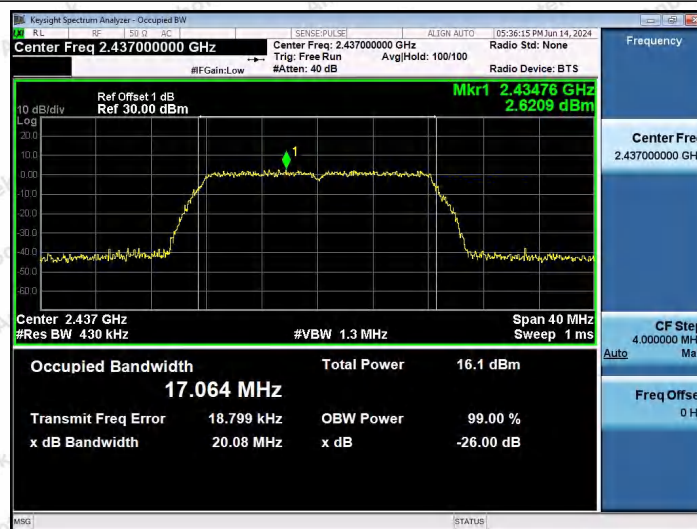


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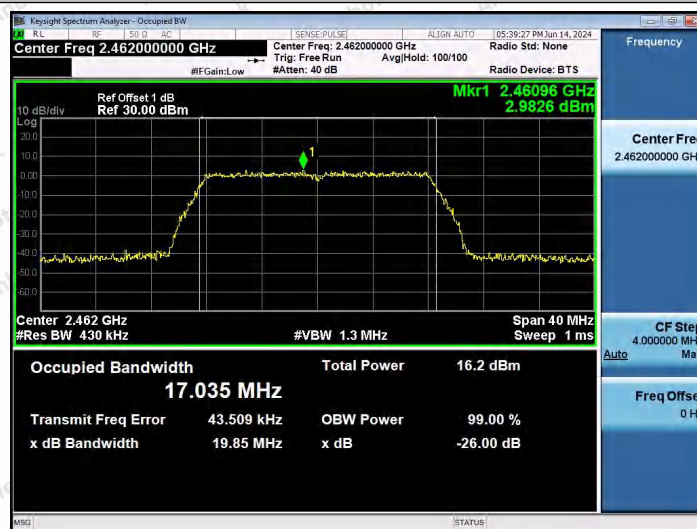




11G-Ant1-2412



11G-Ant1-2437



11G-Ant1-2462

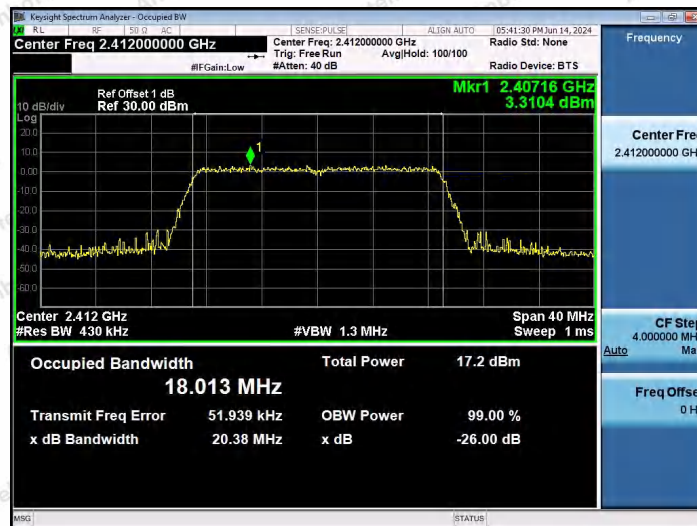
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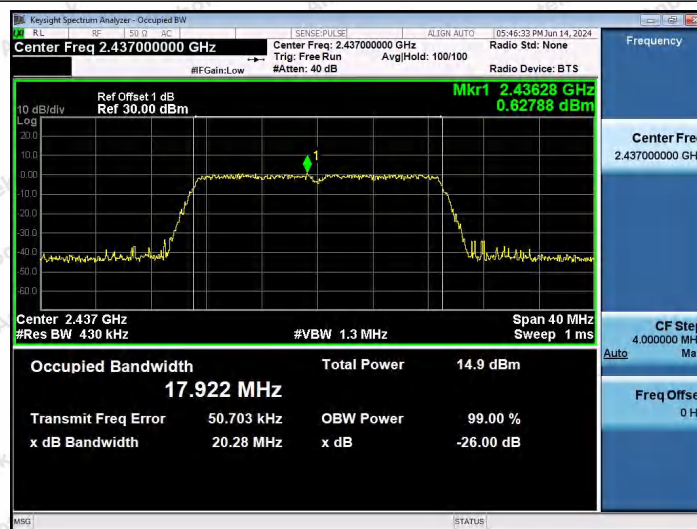


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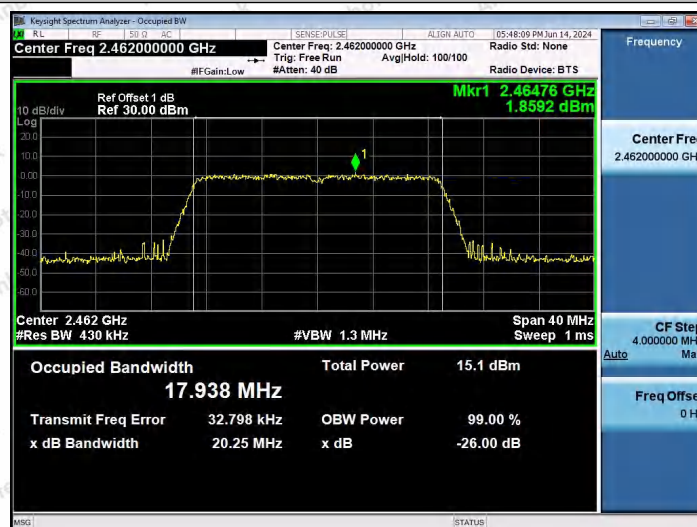




11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



11N20SISO-Ant1-2462

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Appendix C: Maximum output power

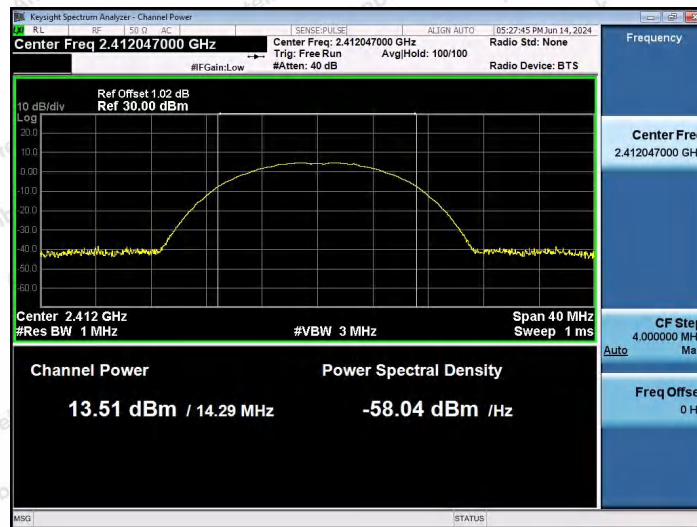
Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.49	99.64	0.02	13.51	≤30.00	PASS
11B	Ant1	2437	13.43	99.64	0.02	13.45	≤30.00	PASS
11B	Ant1	2462	13.37	99.64	0.02	13.39	≤30.00	PASS
11G	Ant1	2412	13.38	97.20	0.12	13.50	≤30.00	PASS
11G	Ant1	2437	14.49	97.20	0.12	14.61	≤30.00	PASS
11G	Ant1	2462	14.55	97.89	0.09	14.64	≤30.00	PASS
11N20SISO	Ant1	2412	13.53	97.74	0.10	13.63	≤30.00	PASS
11N20SISO	Ant1	2437	13.38	97.74	0.10	13.48	≤30.00	PASS
11N20SISO	Ant1	2462	13.49	97.74	0.10	13.59	≤30.00	PASS

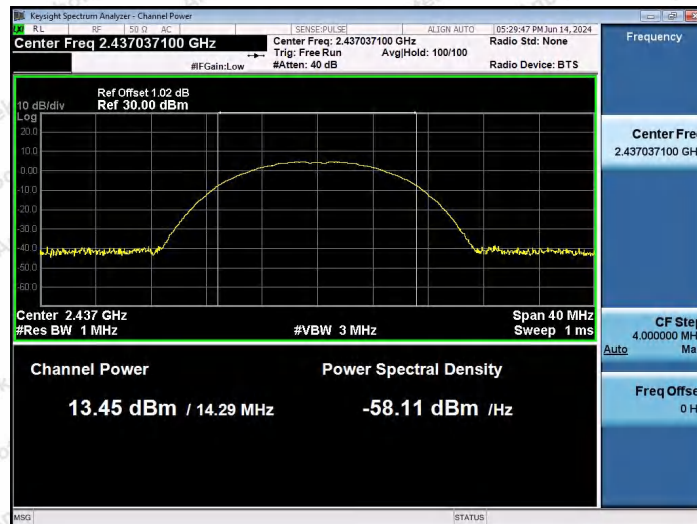
Note: The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.



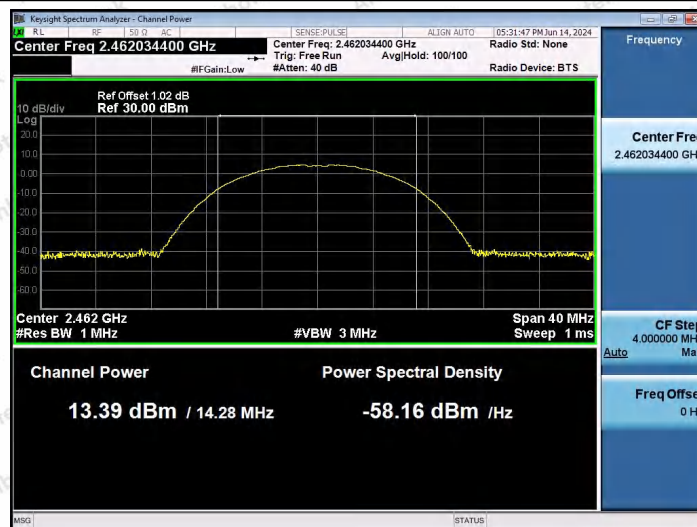
Test Graphs Average



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

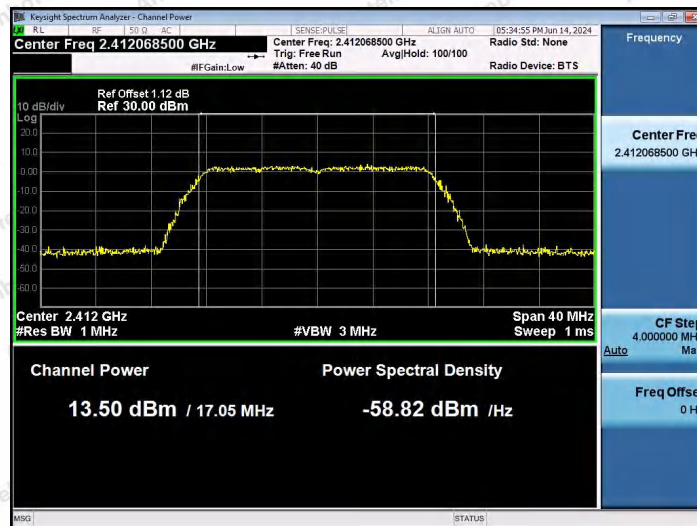
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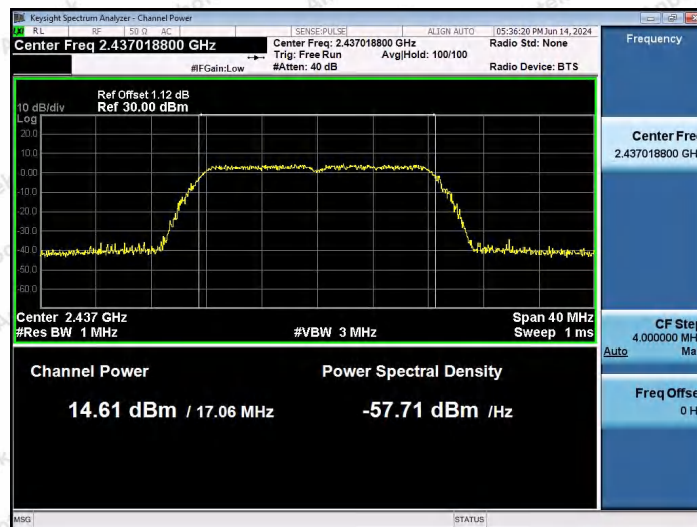


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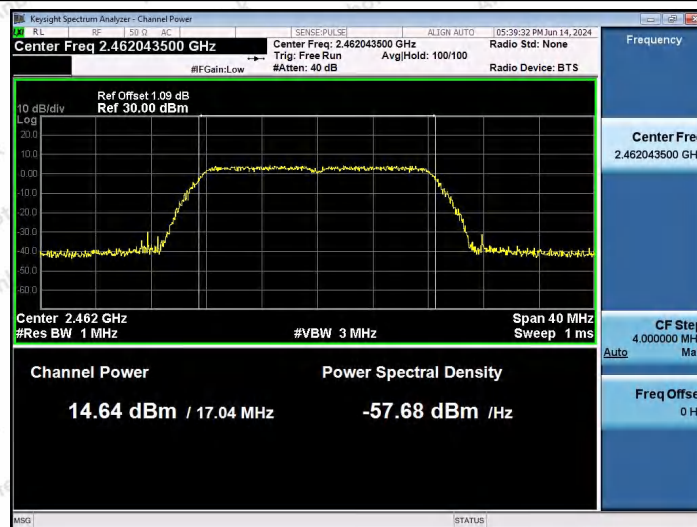




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

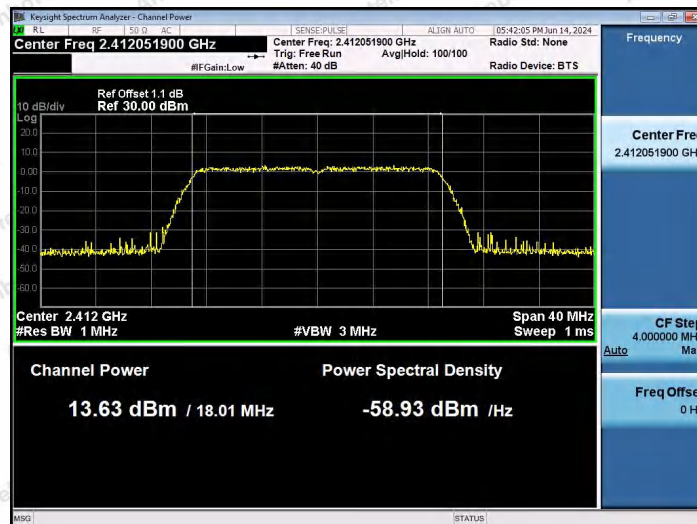
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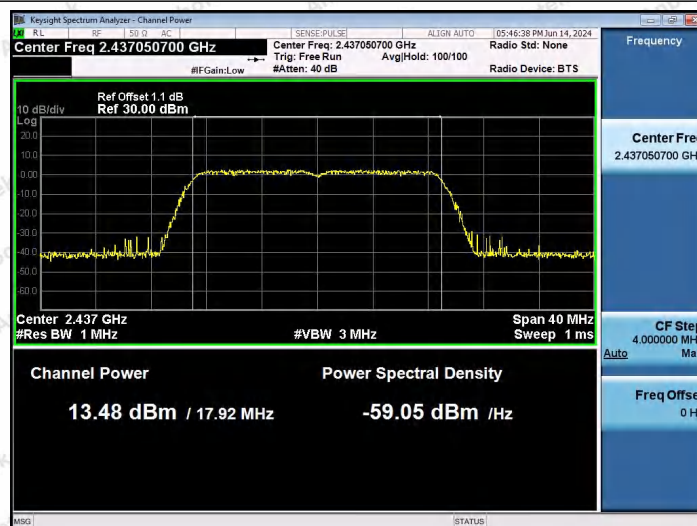


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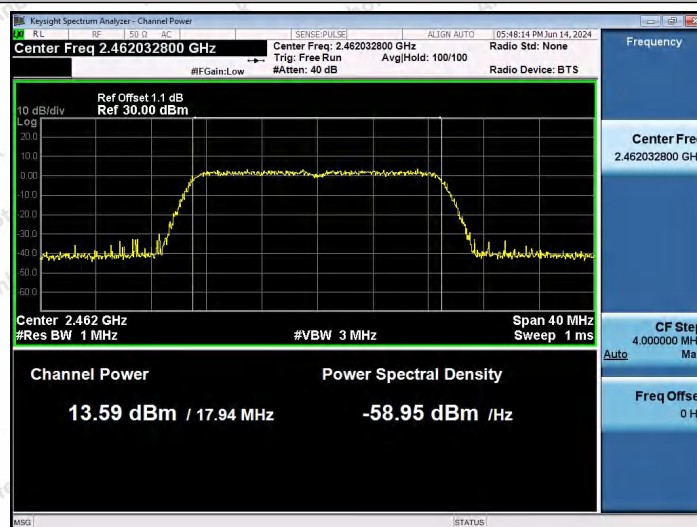




11N20SISO-Ant1-2412-PASS



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	-10.37	-20.37	≤8.00	PASS
11B	Ant1	2437	-10.25	-20.25	≤8.00	PASS
11B	Ant1	2462	-10.14	-20.14	≤8.00	PASS
11G	Ant1	2412	-11.43	-21.43	≤8.00	PASS
11G	Ant1	2437	-14.41	-24.41	≤8.00	PASS
11G	Ant1	2462	-14.28	-24.28	≤8.00	PASS
11N20SISO	Ant1	2412	-15.28	-25.28	≤8.00	PASS
11N20SISO	Ant1	2437	-15.97	-25.97	≤8.00	PASS
11N20SISO	Ant1	2462	-15.51	-25.51	≤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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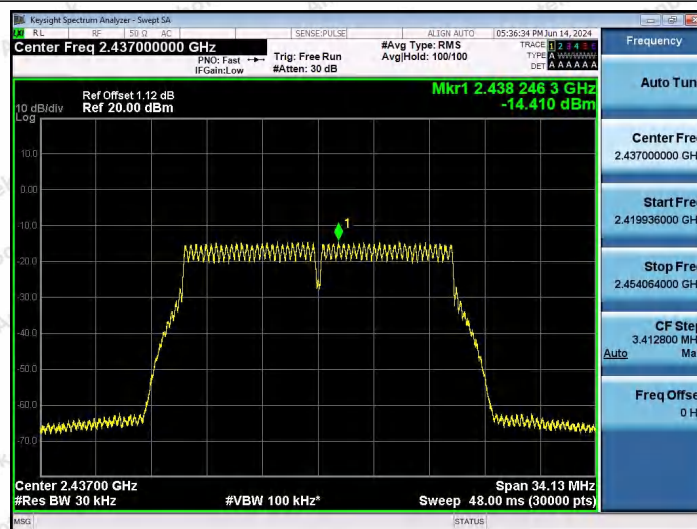


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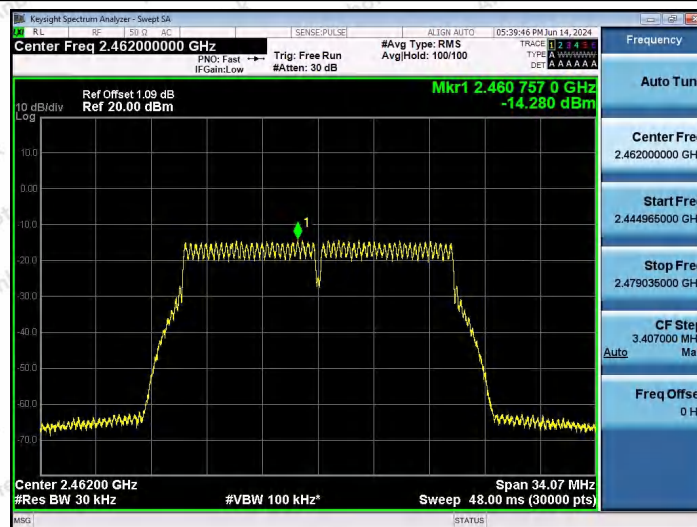




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



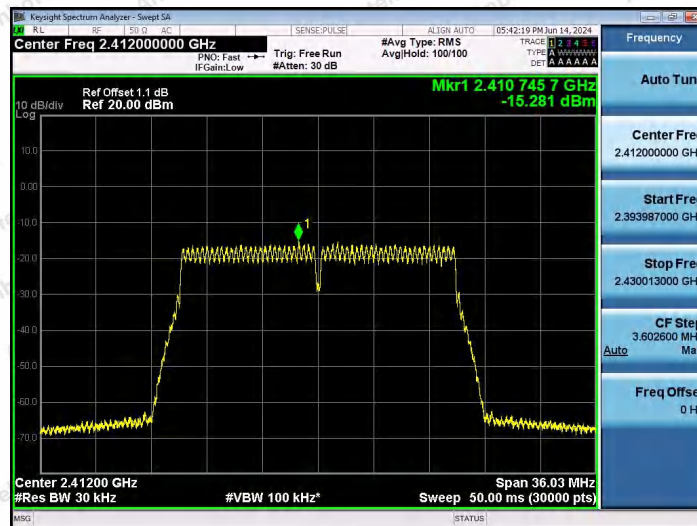
11G-Ant1-2462-PASS

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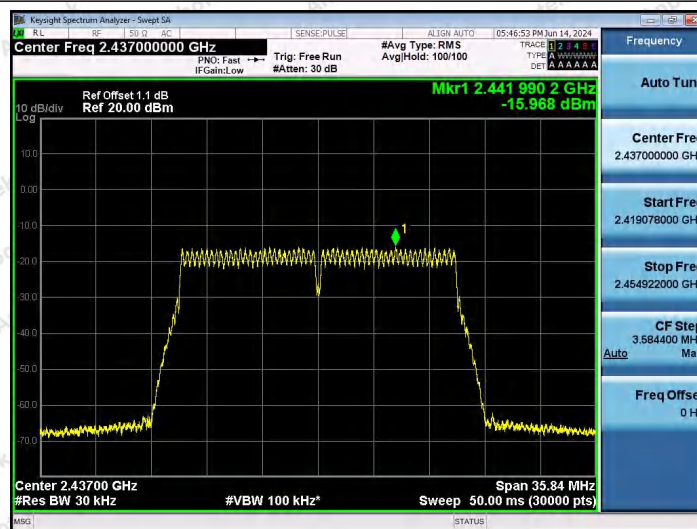
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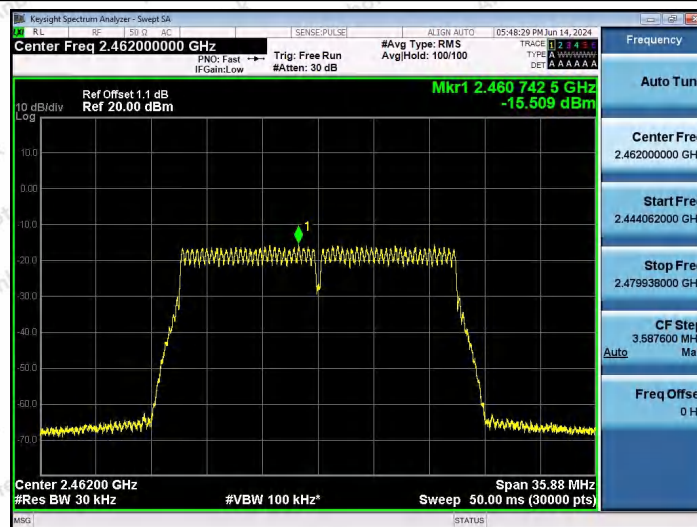




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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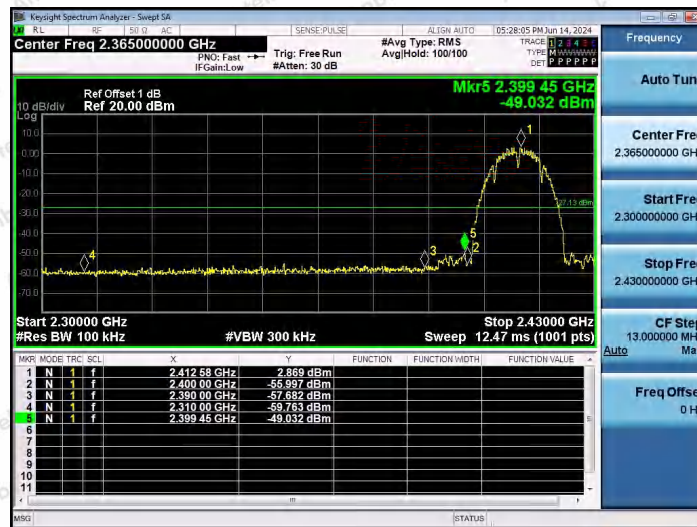
Appendix E: Conducted Band edge

Test Result

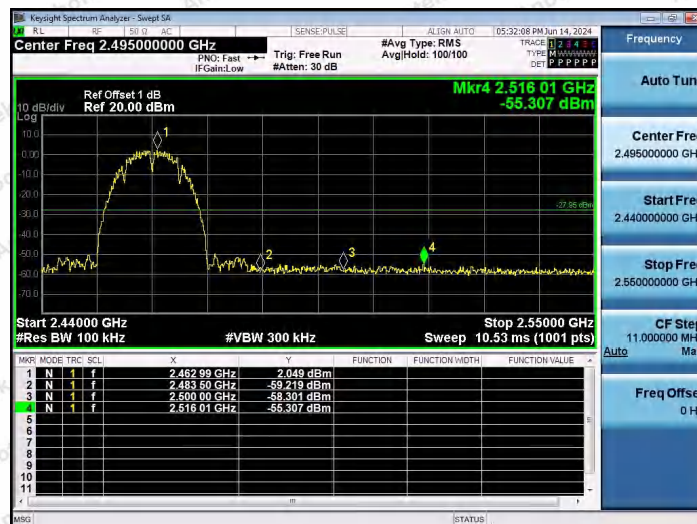
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.87	-49.03	≤-27.13	PASS
11B	Ant1	High	2462	2.05	-55.31	≤-27.95	PASS
11G	Ant1	Low	2412	1.60	-38.65	≤-28.4	PASS
11G	Ant1	High	2462	-1.23	-51.85	≤-31.23	PASS
11N20SISO	Ant1	Low	2412	-2.50	-47.31	≤-32.5	PASS
11N20SISO	Ant1	High	2462	-2.38	-52.53	≤-32.38	PASS



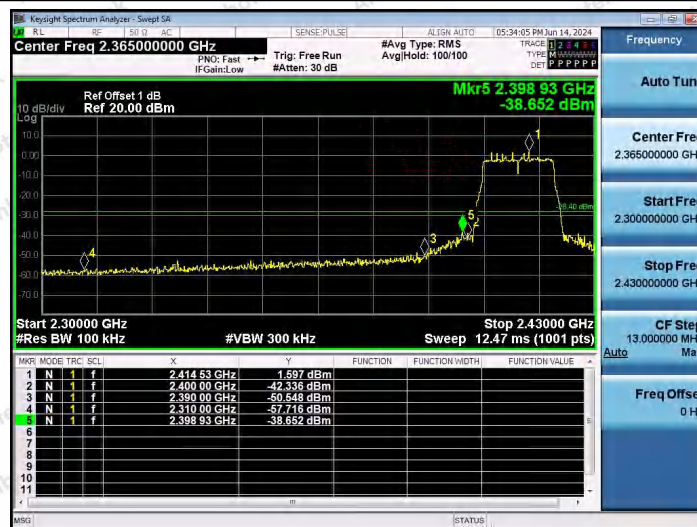
Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2462-PASS



11G-Ant1-2412-PASS

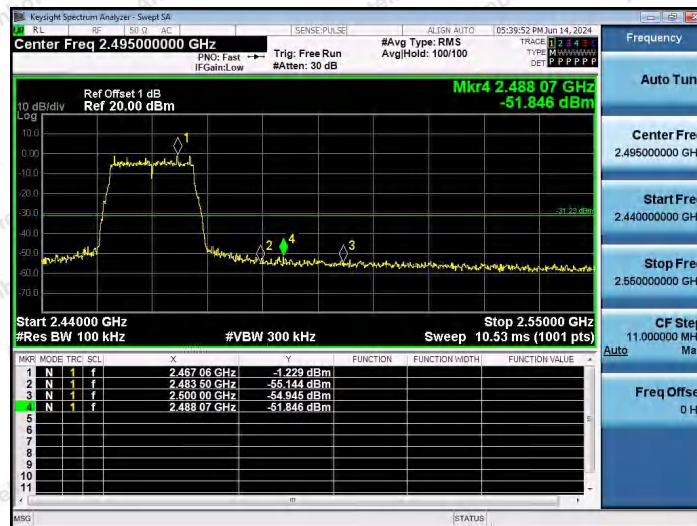
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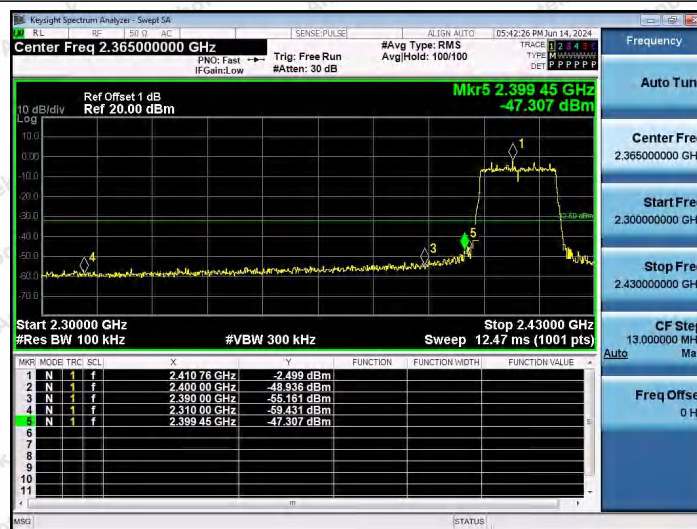


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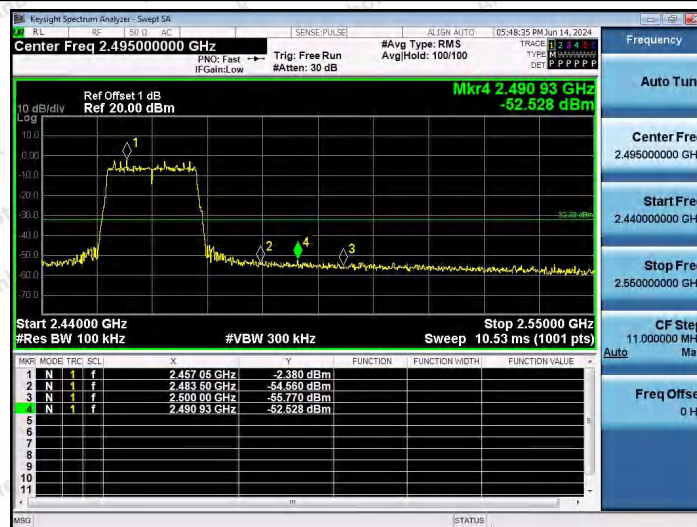




11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS

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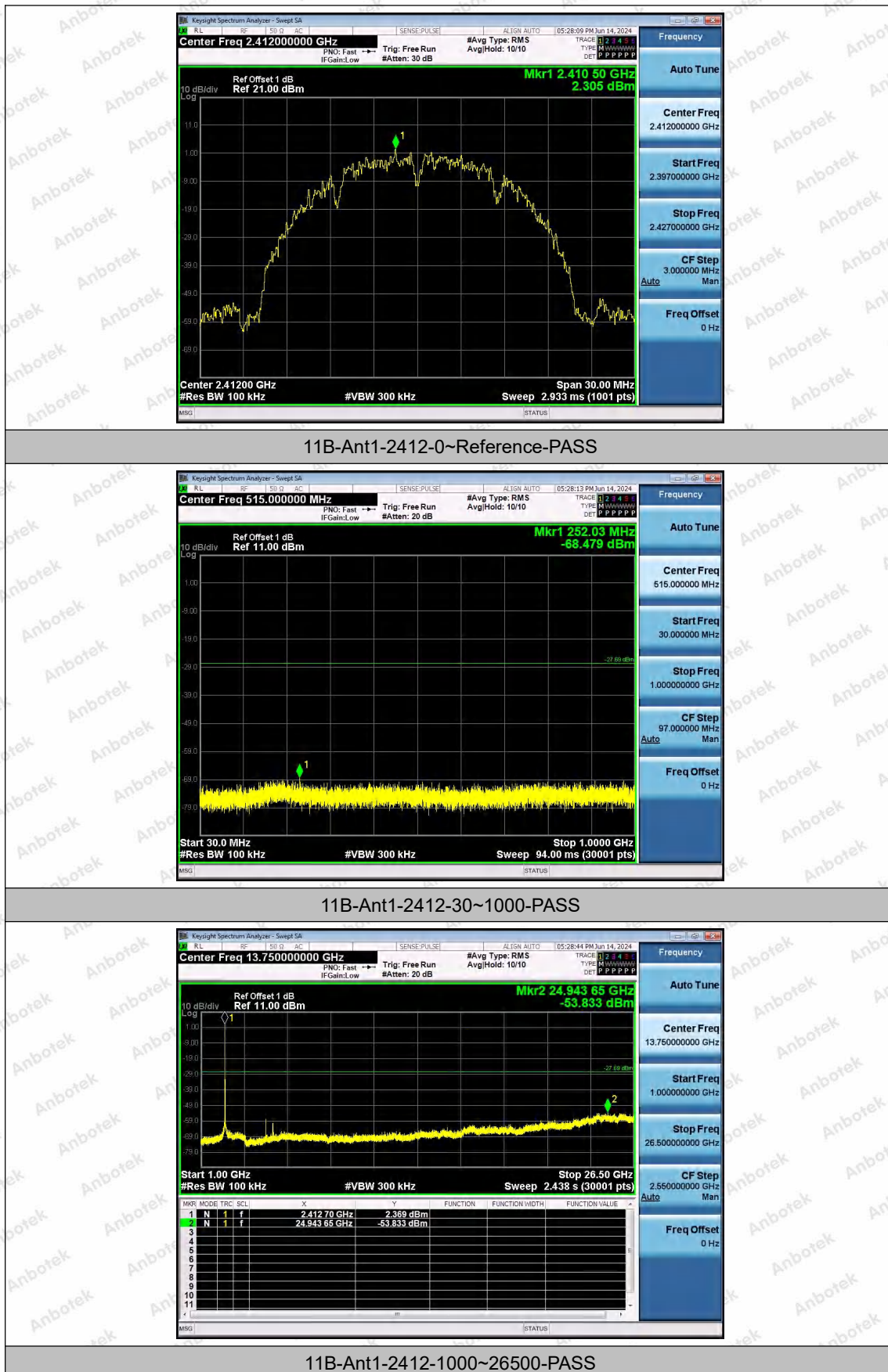
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	2.31	2.31	---	PASS
11B	Ant1	2412	30~1000	2.31	-68.48	≤-27.69	PASS
11B	Ant1	2412	1000~26500	2.31	-53.83	≤-27.69	PASS
11B	Ant1	2437	0~Reference	3.01	3.01	---	PASS
11B	Ant1	2437	30~1000	3.01	-67.99	≤-26.99	PASS
11B	Ant1	2437	1000~26500	3.01	-52.66	≤-26.99	PASS
11B	Ant1	2462	0~Reference	1.16	1.16	---	PASS
11B	Ant1	2462	30~1000	1.16	-67.92	≤-28.84	PASS
11B	Ant1	2462	1000~26500	1.16	-53.45	≤-28.84	PASS
11G	Ant1	2412	0~Reference	-2.88	-2.88	---	PASS
11G	Ant1	2412	30~1000	-2.88	-68.52	≤-32.88	PASS
11G	Ant1	2412	1000~26500	-2.88	-53.59	≤-32.88	PASS
11G	Ant1	2437	0~Reference	-2.40	-2.40	---	PASS
11G	Ant1	2437	30~1000	-2.40	-68.59	≤-32.4	PASS
11G	Ant1	2437	1000~26500	-2.40	-53.3	≤-32.4	PASS
11G	Ant1	2462	0~Reference	-1.52	-1.52	---	PASS
11G	Ant1	2462	30~1000	-1.52	-67.78	≤-31.52	PASS
11G	Ant1	2462	1000~26500	-1.52	-52.7	≤-31.52	PASS
11N20SISO	Ant1	2412	0~Reference	-6.29	-6.29	---	PASS
11N20SISO	Ant1	2412	30~1000	-6.29	-68.02	≤-36.29	PASS
11N20SISO	Ant1	2412	1000~26500	-6.29	-53.31	≤-36.29	PASS
11N20SISO	Ant1	2437	0~Reference	-5.93	-5.93	---	PASS
11N20SISO	Ant1	2437	30~1000	-5.93	-67.92	≤-35.93	PASS
11N20SISO	Ant1	2437	1000~26500	-5.93	-53.46	≤-35.93	PASS
11N20SISO	Ant1	2462	0~Reference	-5.15	-5.15	---	PASS
11N20SISO	Ant1	2462	30~1000	-5.15	-68.03	≤-35.15	PASS
11N20SISO	Ant1	2462	1000~26500	-5.15	-49.28	≤-35.15	PASS



Test Graphs



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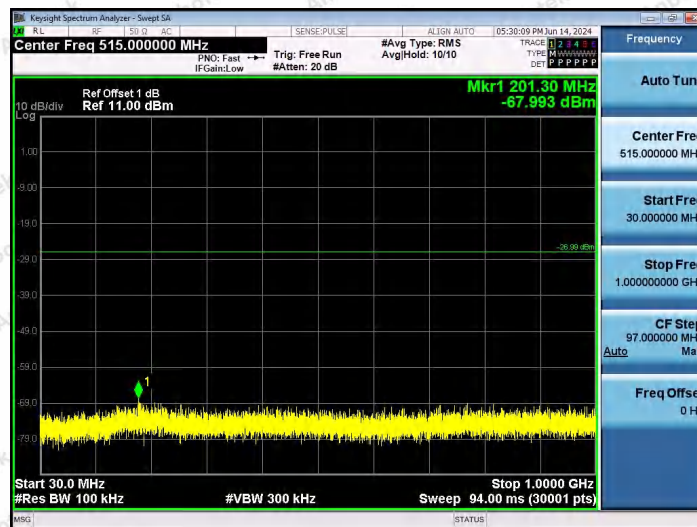


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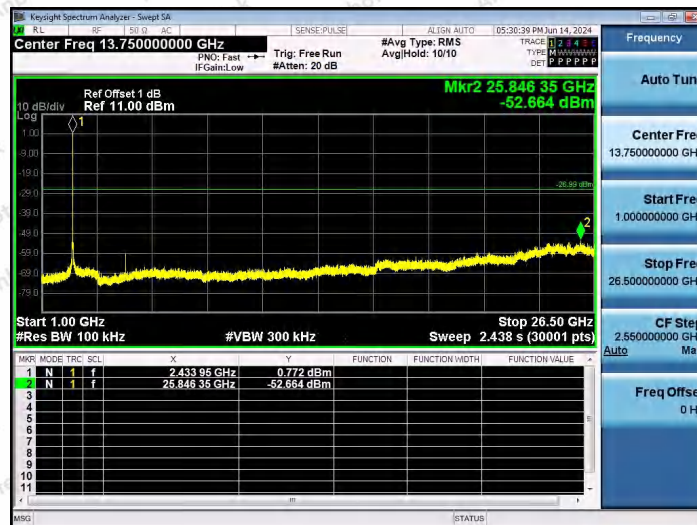




11B-Ant1-2437-0~Reference-PASS



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



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

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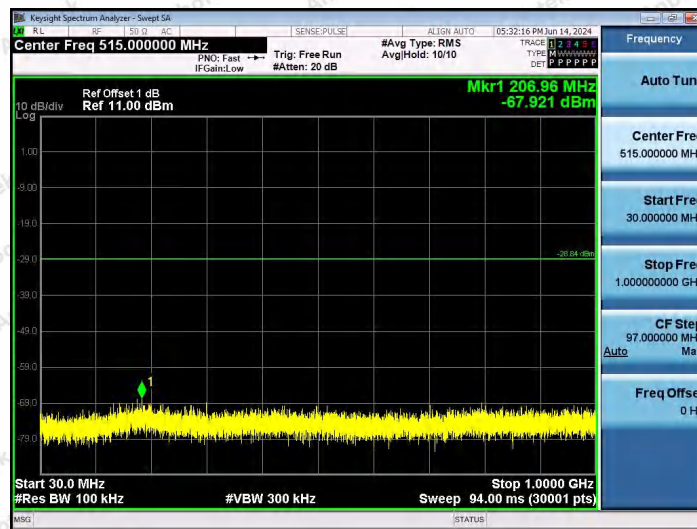


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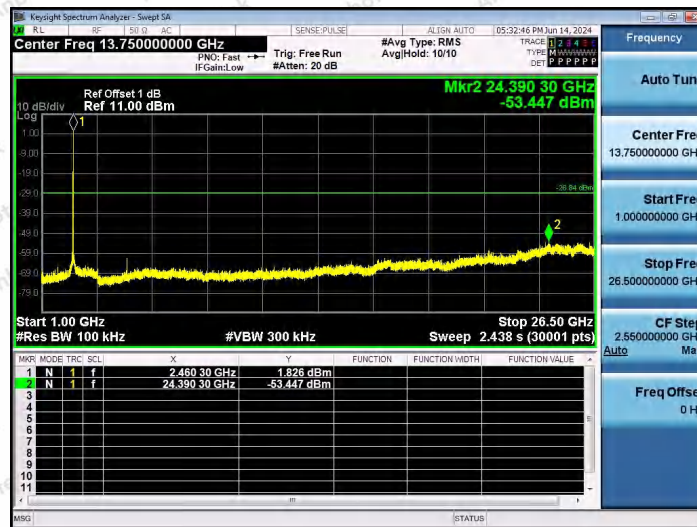




11B-Ant1-2462-0~Reference-PASS



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



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

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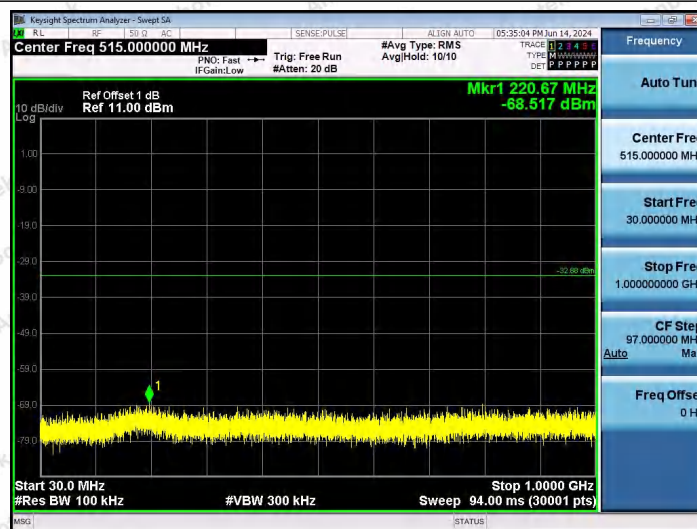
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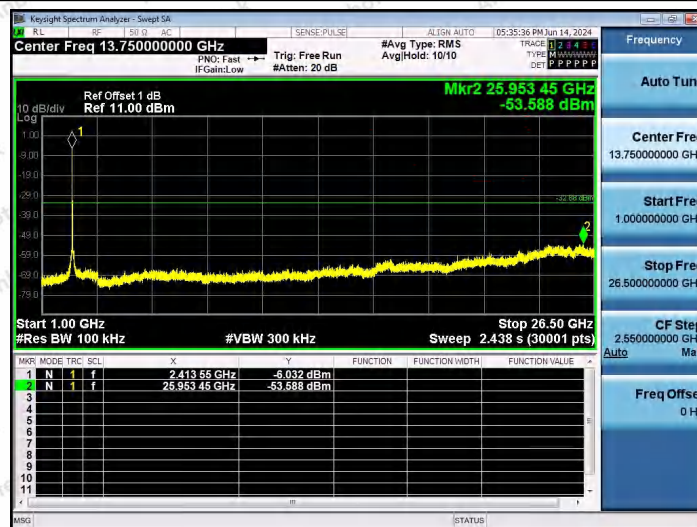




11G-Ant1-2412-0~Reference-PASS



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



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

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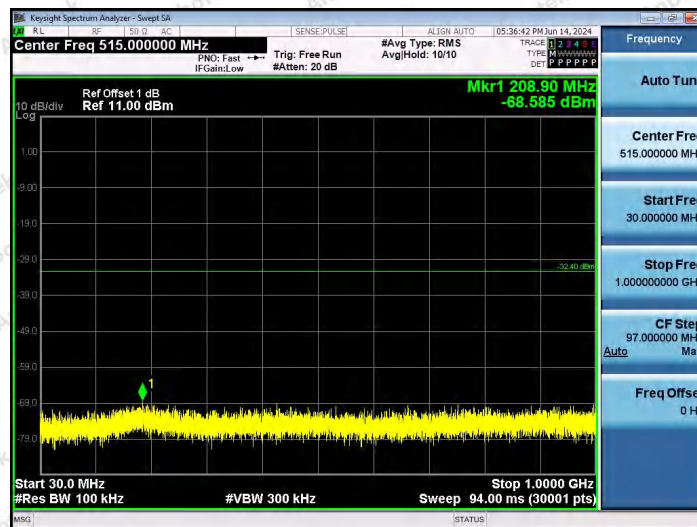


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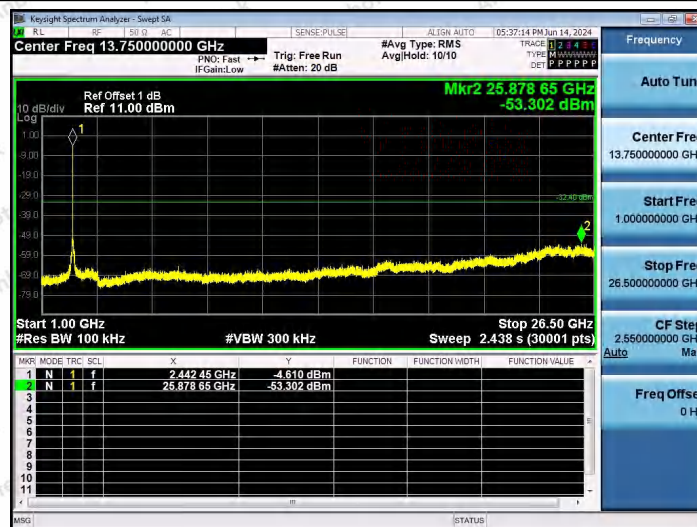




11G-Ant1-2437-0~Reference-PASS



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



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

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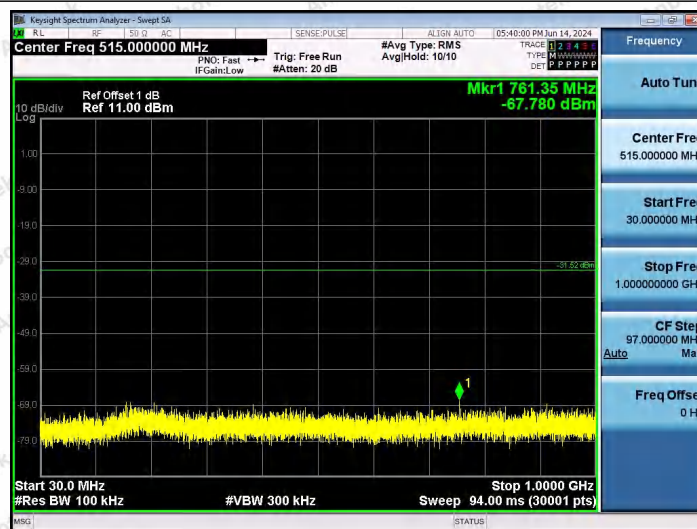


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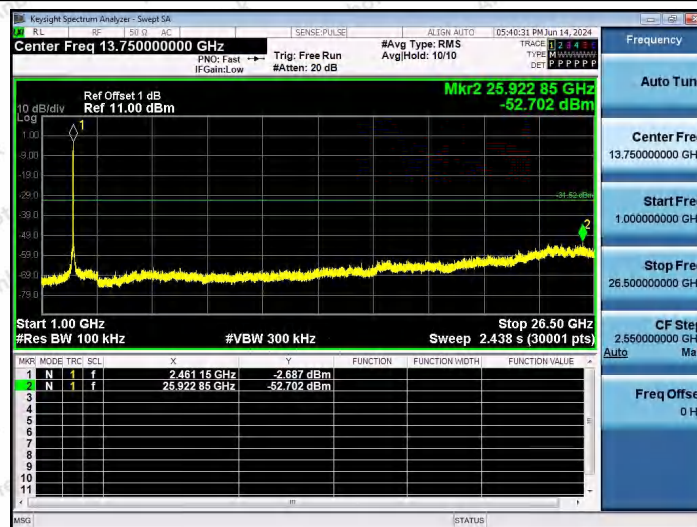




11G-Ant1-2462-0~Reference-PASS



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



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

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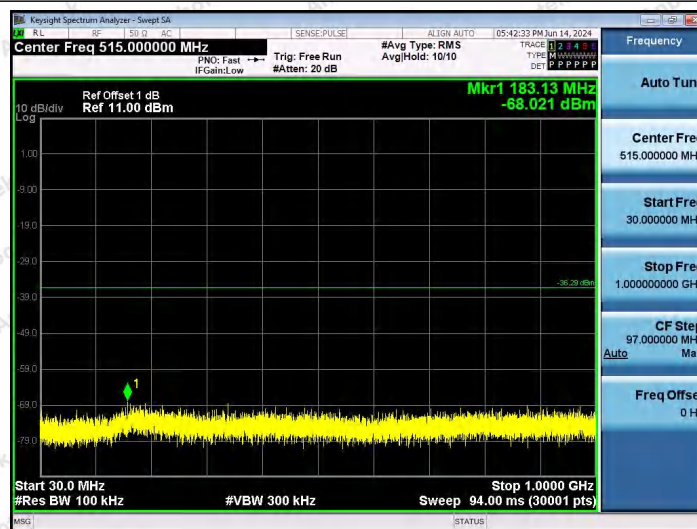


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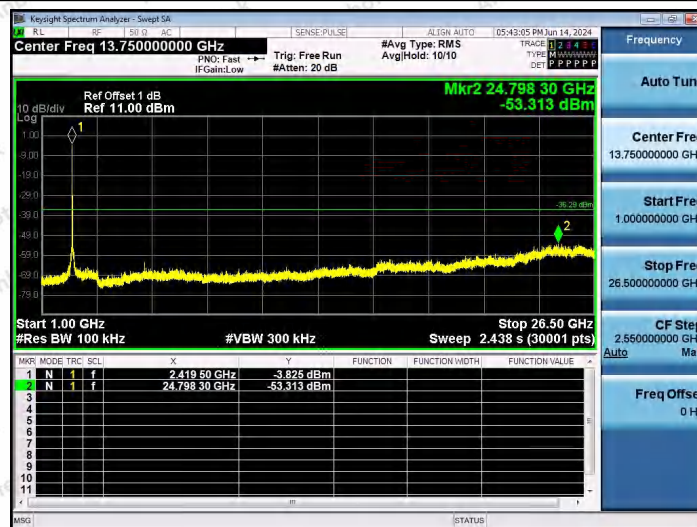




11N20SISO-Ant1-2412-0~Reference-PASS



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



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

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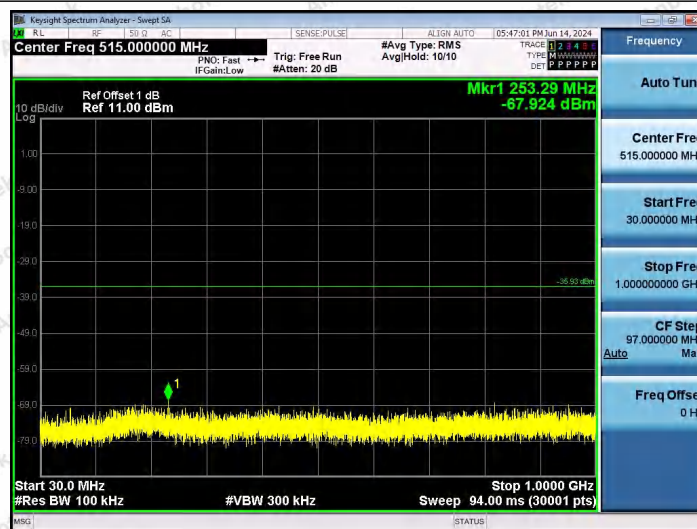


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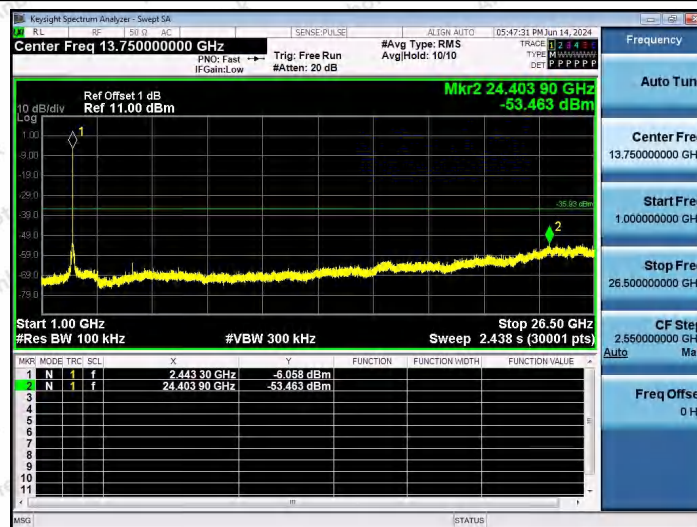




11N20SISO-Ant1-2437-0~Reference-PASS



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



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

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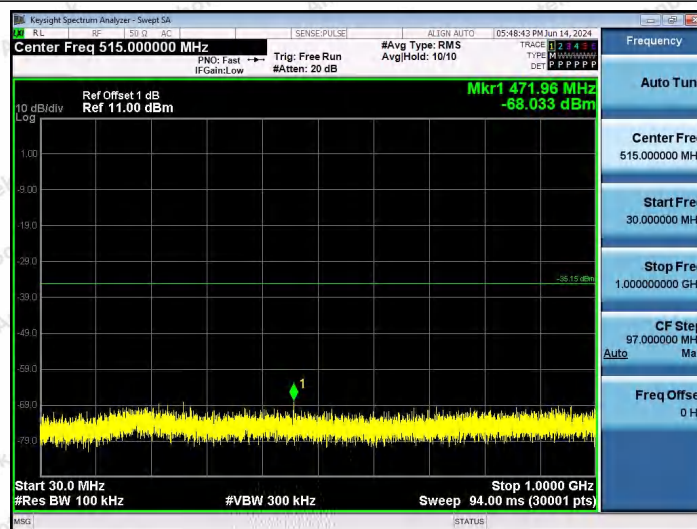
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

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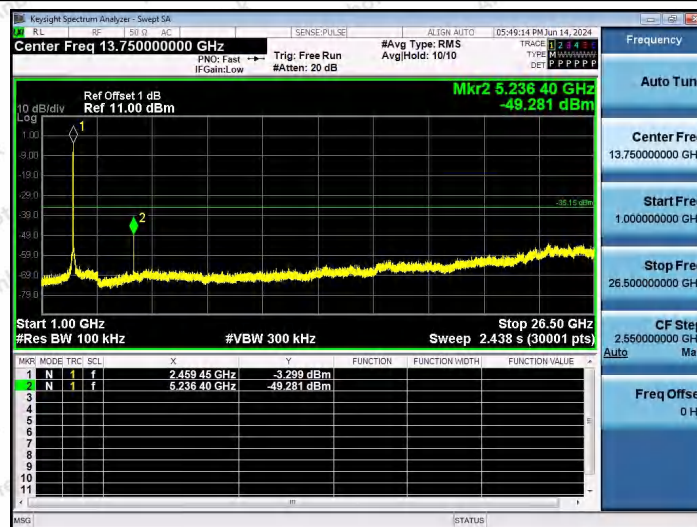




11N20SISO-Ant1-2462-0~Reference-PASS



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



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

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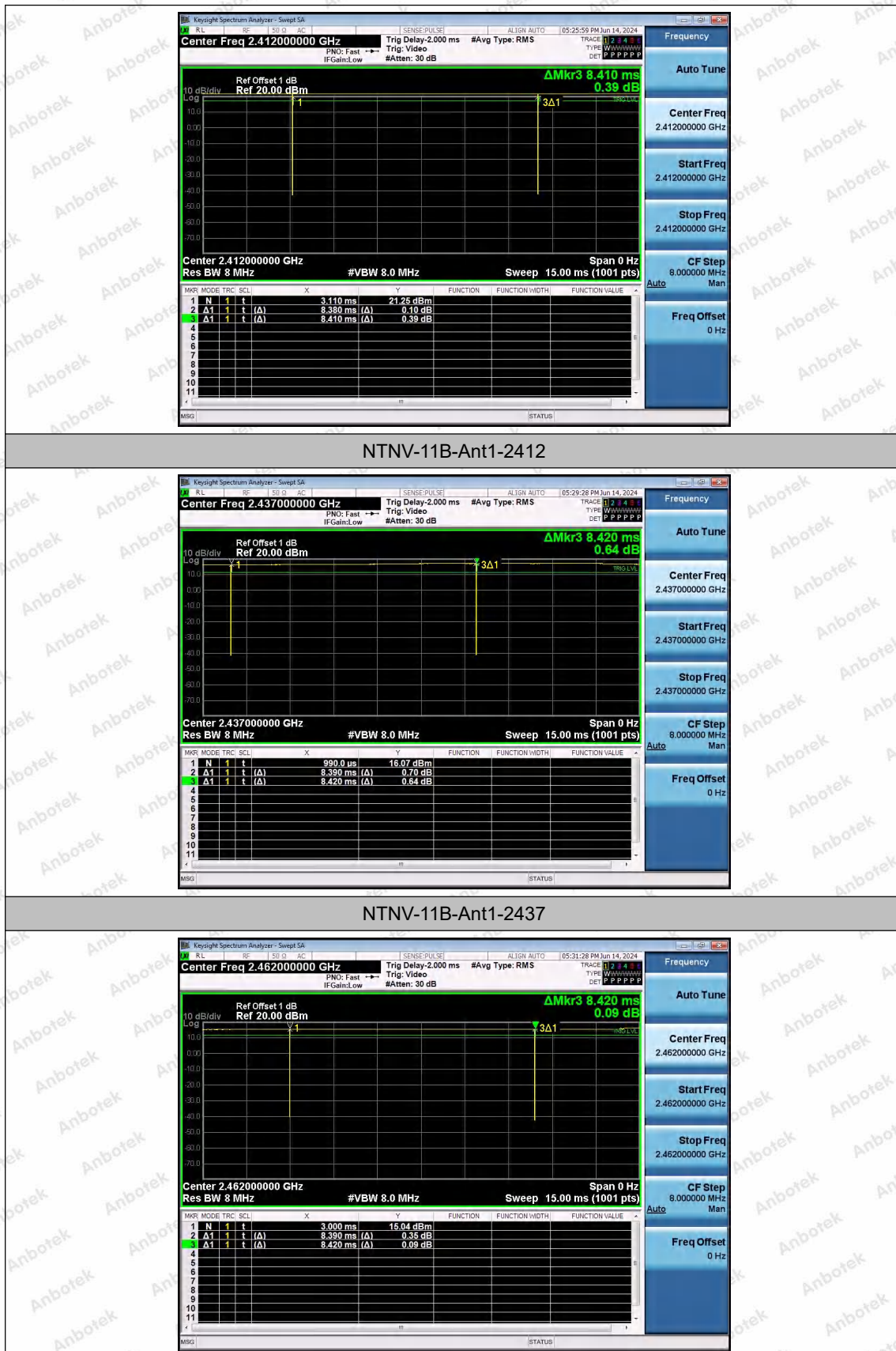
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.38	8.41	99.64	0.02
11B	Ant1	2437	8.39	8.42	99.64	0.02
11B	Ant1	2462	8.39	8.42	99.64	0.02
11G	Ant1	2412	1.39	1.43	97.20	0.12
11G	Ant1	2437	1.39	1.43	97.20	0.12
11G	Ant1	2462	1.39	1.42	97.89	0.09
11N20SISO	Ant1	2412	1.30	1.33	97.74	0.10
11N20SISO	Ant1	2437	1.30	1.33	97.74	0.10
11N20SISO	Ant1	2462	1.30	1.33	97.74	0.10



Test Graphs



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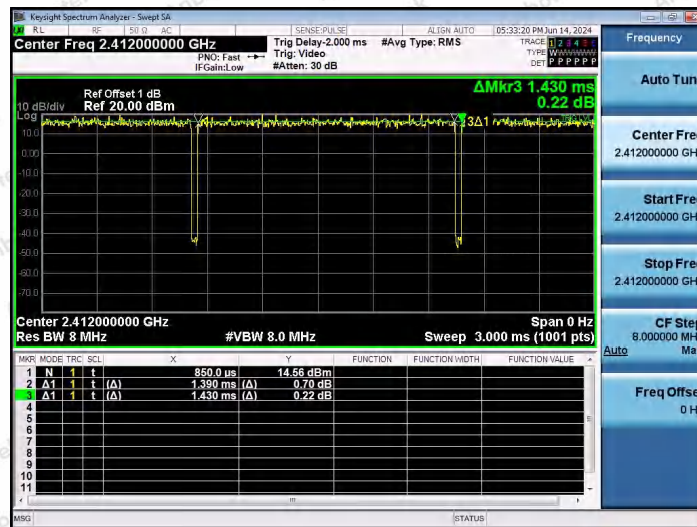
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



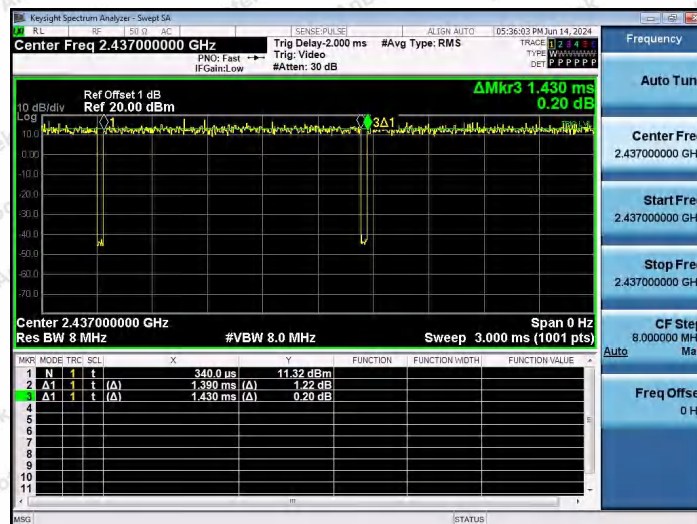
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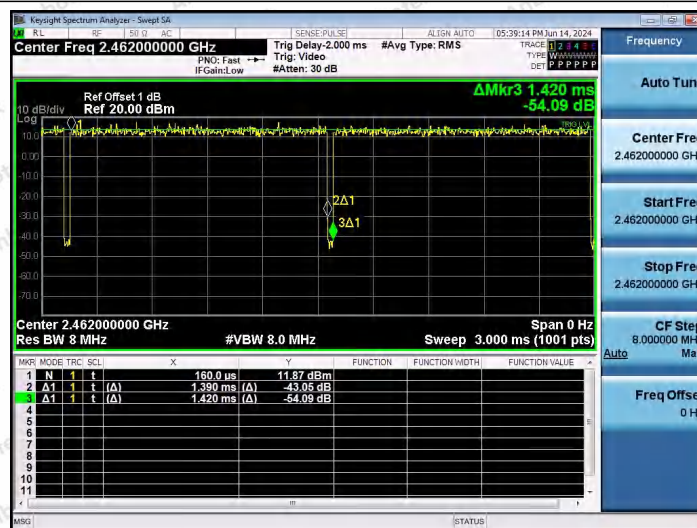
NTNV-11B-Ant1-2462



NTNV-11G-Ant1-2412



NTNV-11G-Ant1-2437



NTNV-11G-Ant1-2462

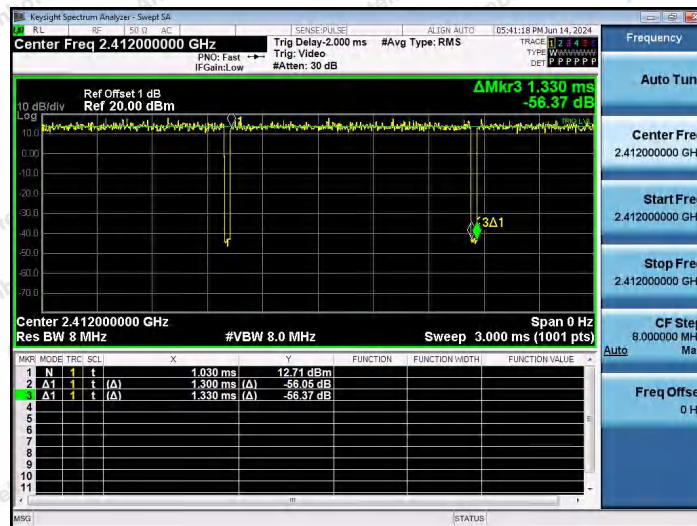
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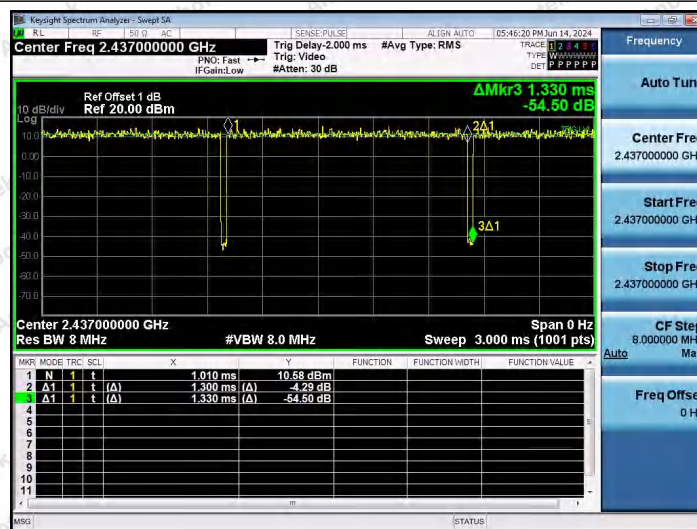


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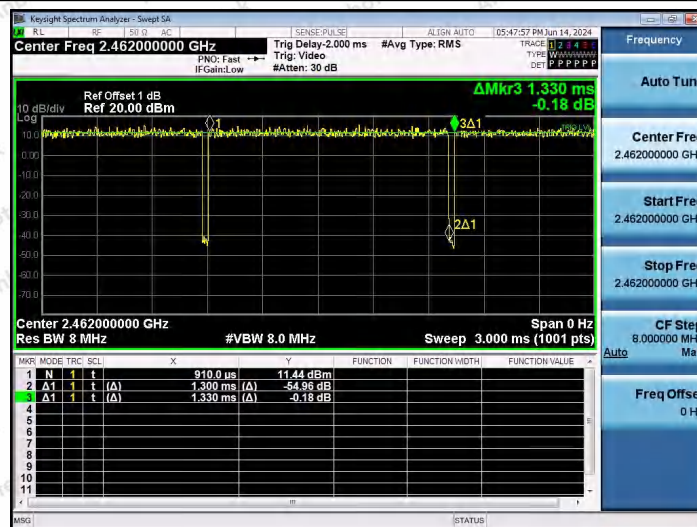




NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437



NTNV-11N20SISO-Ant1-2462

---End---

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