

Appendix Test Data

Report No.:	18220WC40096502	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:	24.3℃	Relative Humidity:	47%
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	8.600	2407.440	2416.040	0.5	PASS
11B	Ant1	2437	9.040	2432.480	2441.520	0.5	PASS
11B	Ant1	2462	9.040	2457.480	2466.520	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
11G	Ant1	2437	16.440	2428.760	2445.200	0.5	PASS
11G	Ant1	2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.200	2420.760	0.5	PASS
11N20SISO	Ant1	2437	17.560	2428.200	2445.760	0.5	PASS
11N20SISO	Ant1	2462	17.520	2453.240	2470.760	0.5	PASS



Test Graphs



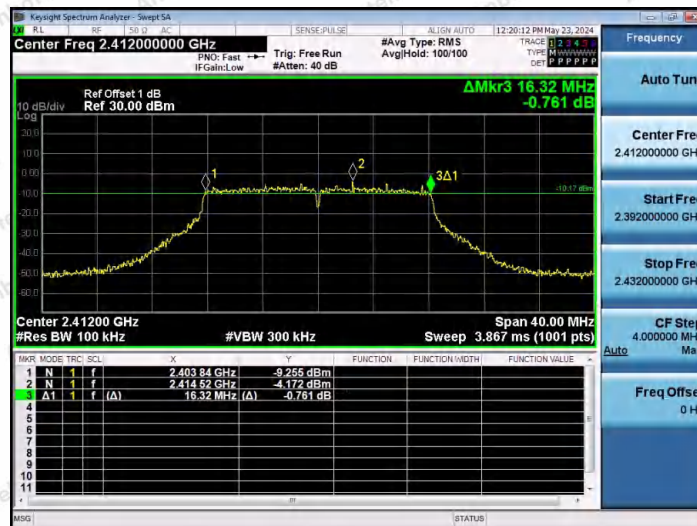
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

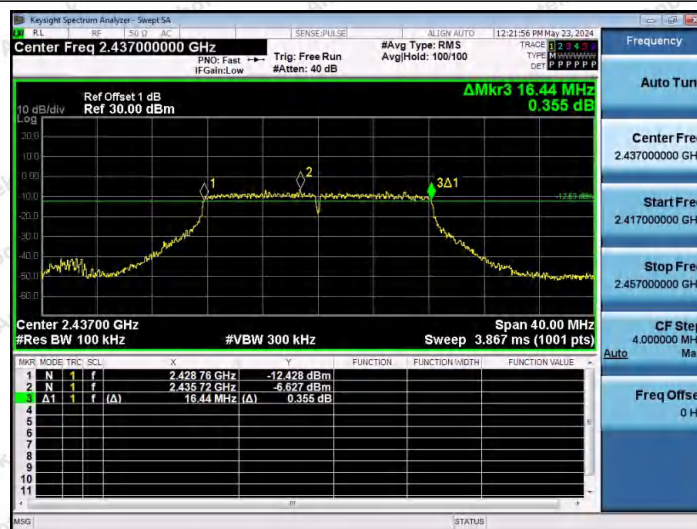


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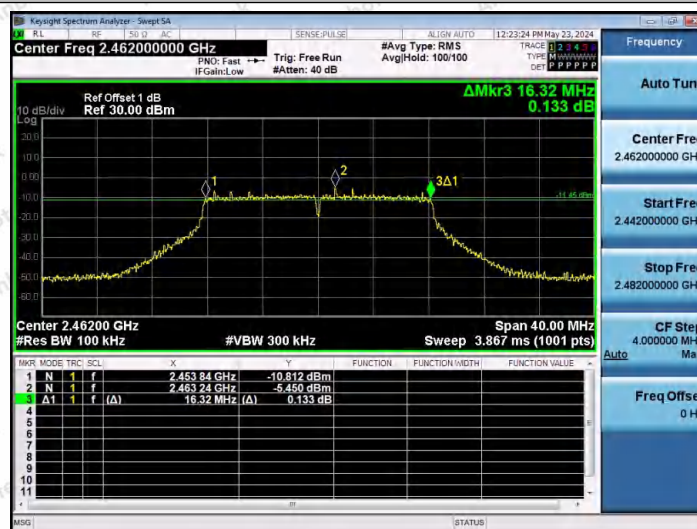




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

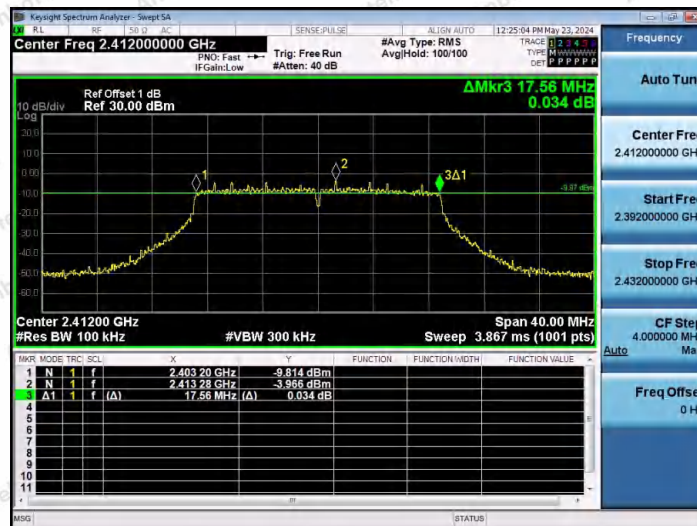
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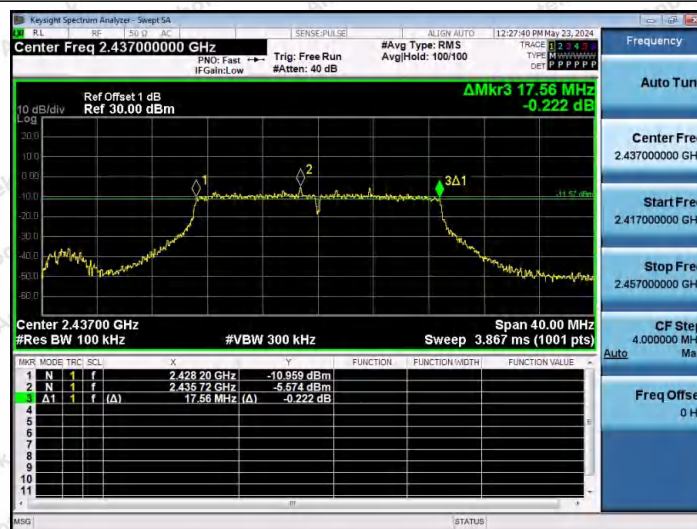


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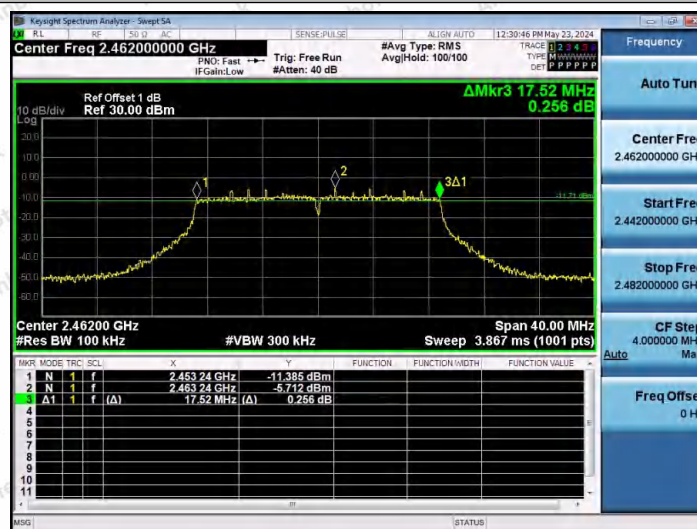




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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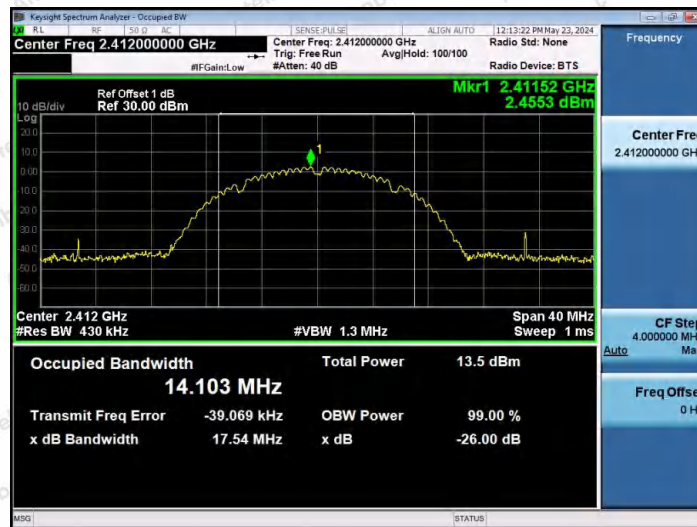
Appendix B: 99% Occupied Bandwidth

Test Result

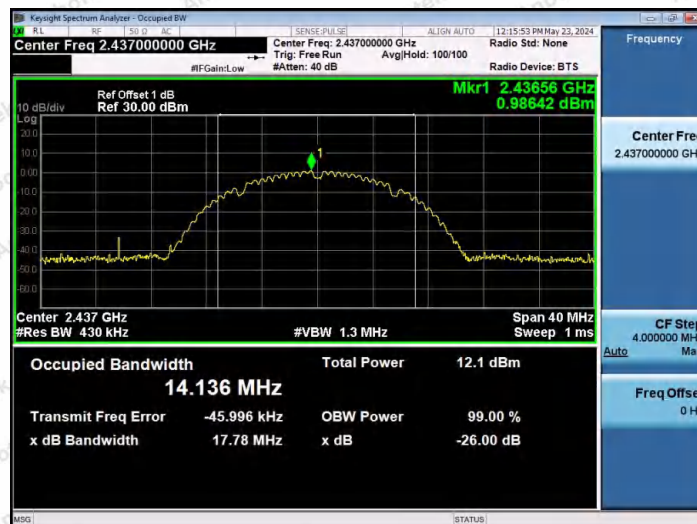
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.103	2404.9094	2419.0124	---	---
11B	Ant1	2437	14.136	2429.8860	2444.0220	---	---
11B	Ant1	2462	14.132	2454.9620	2469.0940	---	---
11G	Ant1	2412	17.129	2403.3957	2420.5247	---	---
11G	Ant1	2437	17.192	2428.3974	2445.5894	---	---
11G	Ant1	2462	17.092	2453.4841	2470.5761	---	---
11N20SISO	Ant1	2412	18.187	2402.9019	2421.0889	---	---
11N20SISO	Ant1	2437	18.283	2427.8274	2446.1104	---	---
11N20SISO	Ant1	2462	18.204	2452.9770	2471.1810	---	---



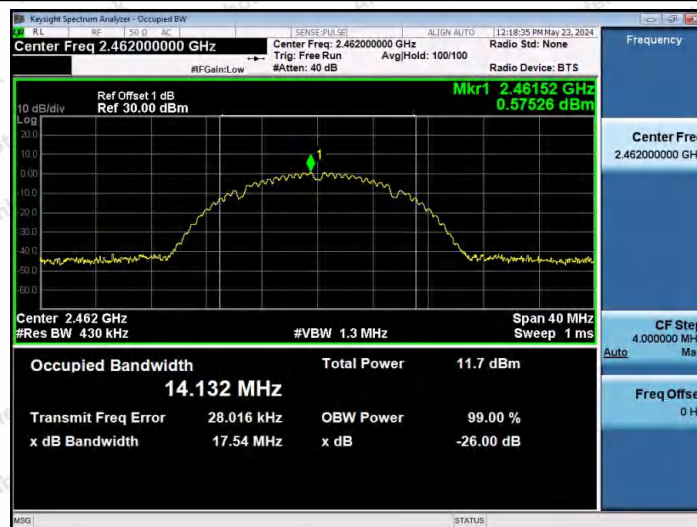
Test Graphs



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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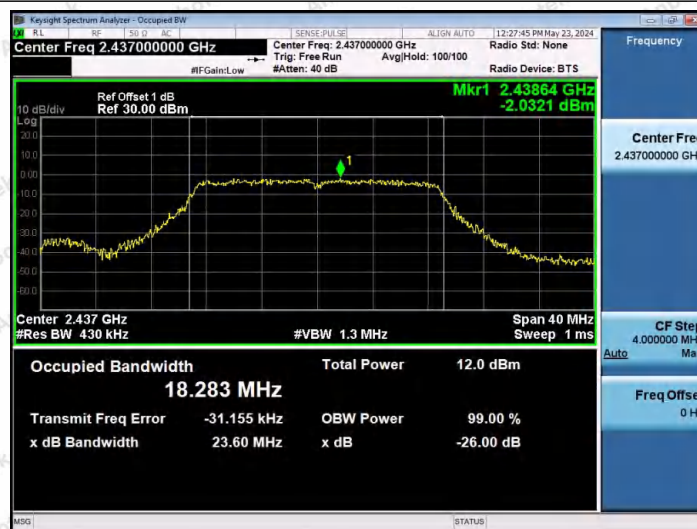


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11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



11N20SISO-Ant1-2462

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Appendix C: Maximum conducted output power

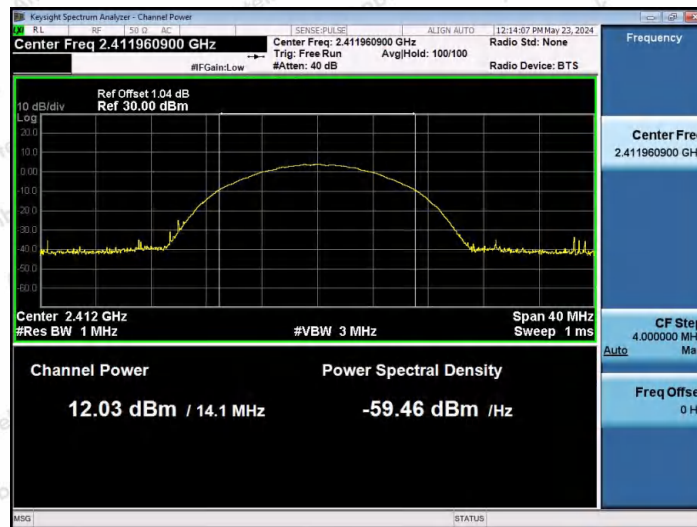
Test Result Average

Test Mode	Antenna	Frequency[MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	11.99	99.04	0.04	12.03	≤30.00	PASS
11B	Ant1	2437	10.50	98.96	0.05	10.55	≤30.00	PASS
11B	Ant1	2462	10.10	98.96	0.05	10.15	≤30.00	PASS
11G	Ant1	2412	11.64	94.09	0.26	11.90	≤30.00	PASS
11G	Ant1	2437	10.46	94.06	0.27	10.73	≤30.00	PASS
11G	Ant1	2462	10.05	94.06	0.27	10.32	≤30.00	PASS
11N20SISO	Ant1	2412	11.68	93.66	0.28	11.96	≤30.00	PASS
11N20SISO	Ant1	2437	10.41	93.66	0.28	10.69	≤30.00	PASS
11N20SISO	Ant1	2462	9.93	93.66	0.28	10.21	≤30.00	PASS

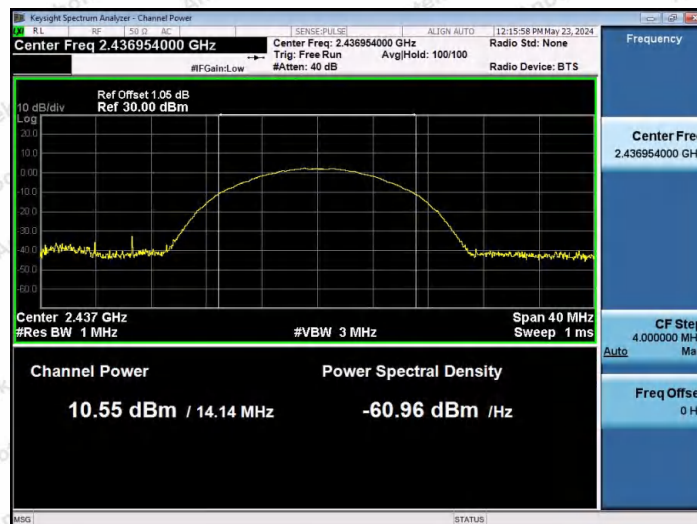
Note: The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.



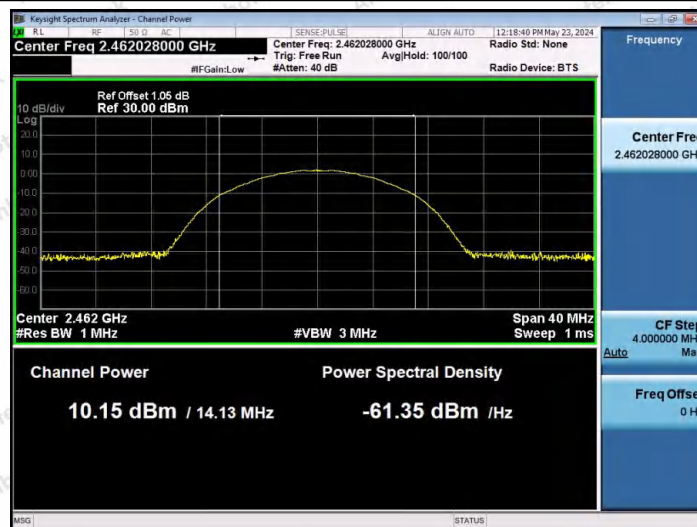
Test Graphs Average



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

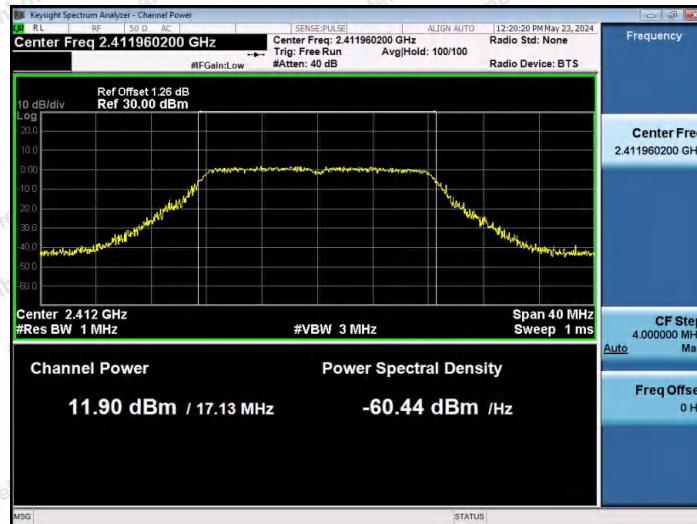
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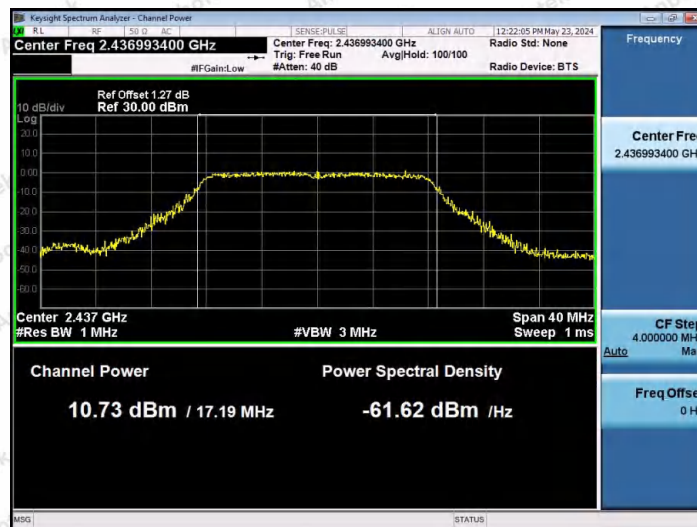


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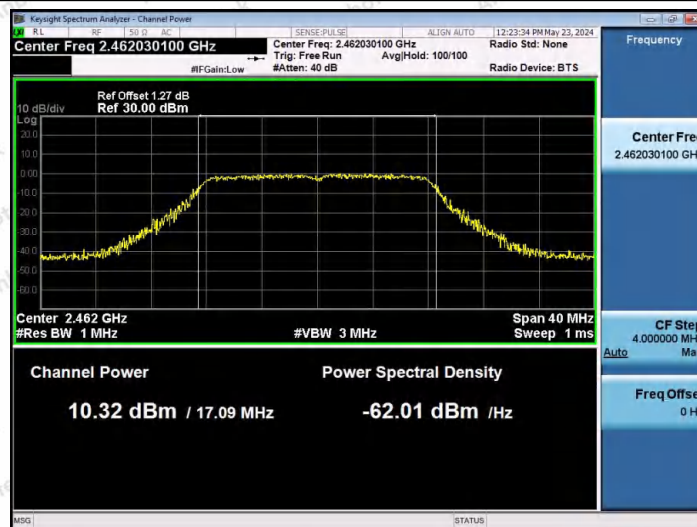




11G-Ant1-2412-PASS

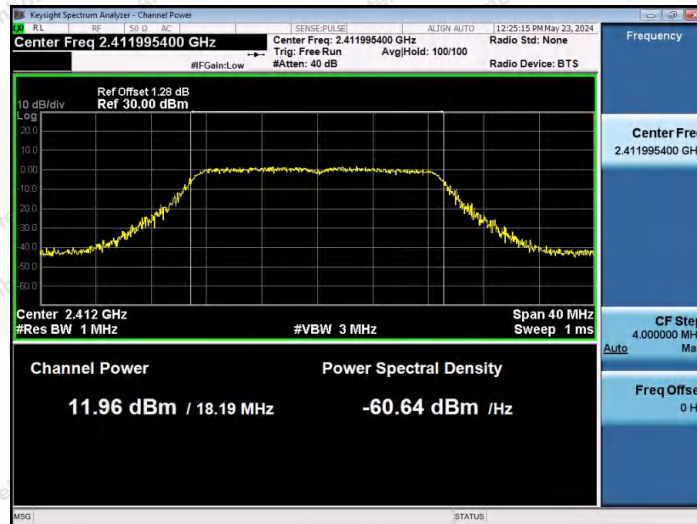


11G-Ant1-2437-PASS

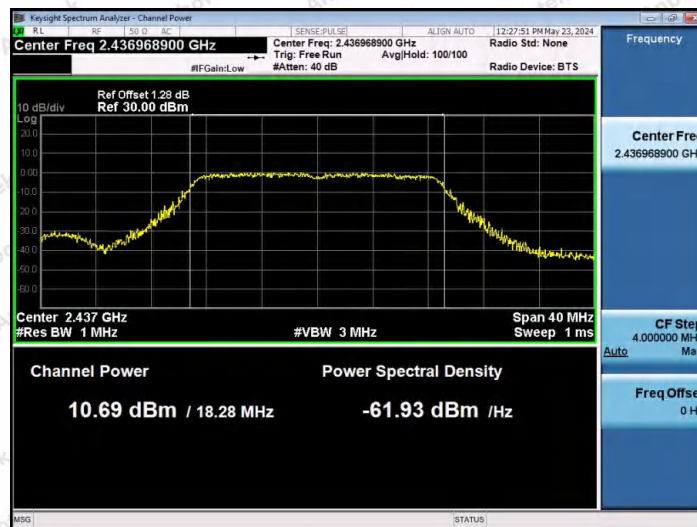


11G-Ant1-2462-PASS

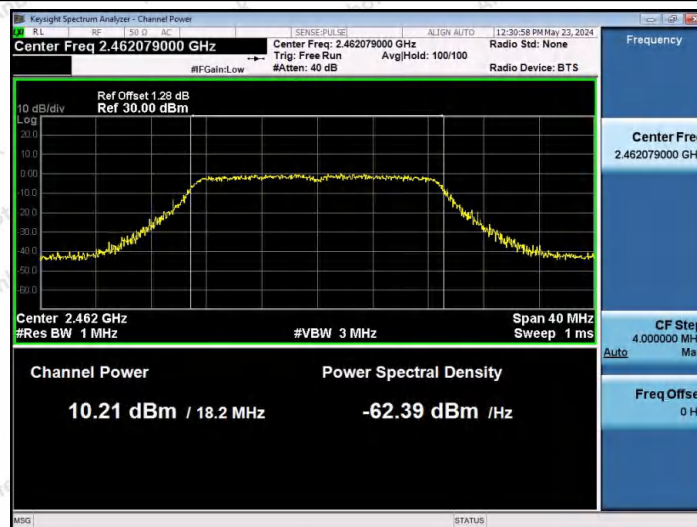




11N20SISO-Ant1-2412-PASS



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	-11.32	-21.32	≤8.00	PASS
11B	Ant1	2437	-12.74	-22.74	≤8.00	PASS
11B	Ant1	2462	-12.68	-22.68	≤8.00	PASS
11G	Ant1	2412	-16.82	-26.82	≤8.00	PASS
11G	Ant1	2437	-18.00	-28.00	≤8.00	PASS
11G	Ant1	2462	-18.56	-28.56	≤8.00	PASS
11N20SIS O	Ant1	2412	-17.12	-27.12	≤8.00	PASS
11N20SIS O	Ant1	2437	-18.87	-28.87	≤8.00	PASS
11N20SIS O	Ant1	2462	-18.96	-28.96	≤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



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

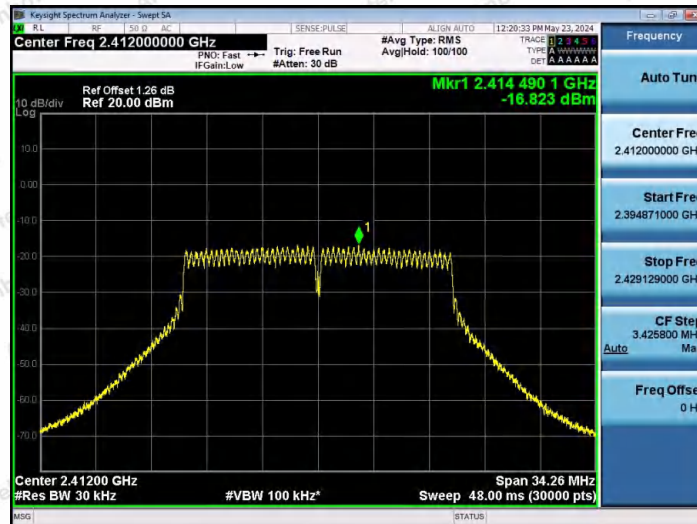
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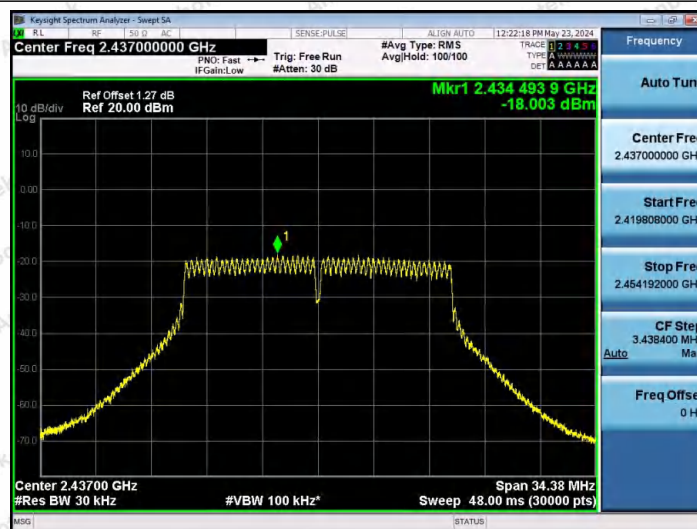


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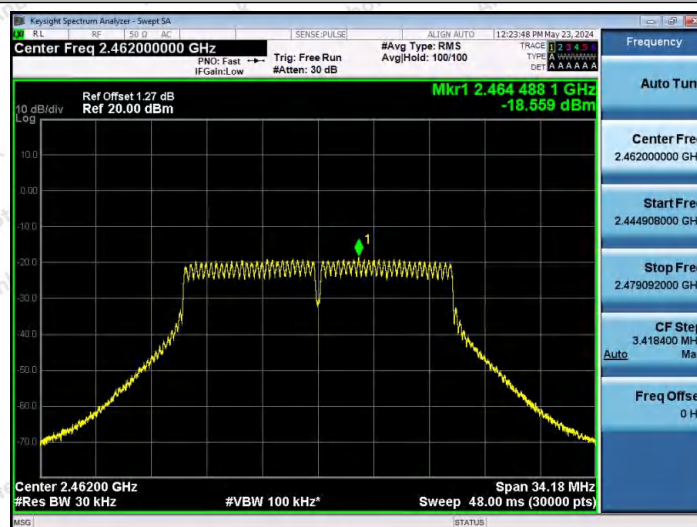




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

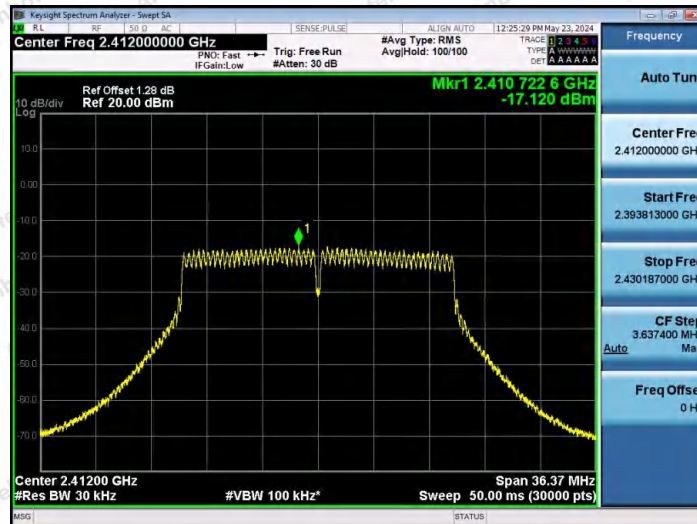
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11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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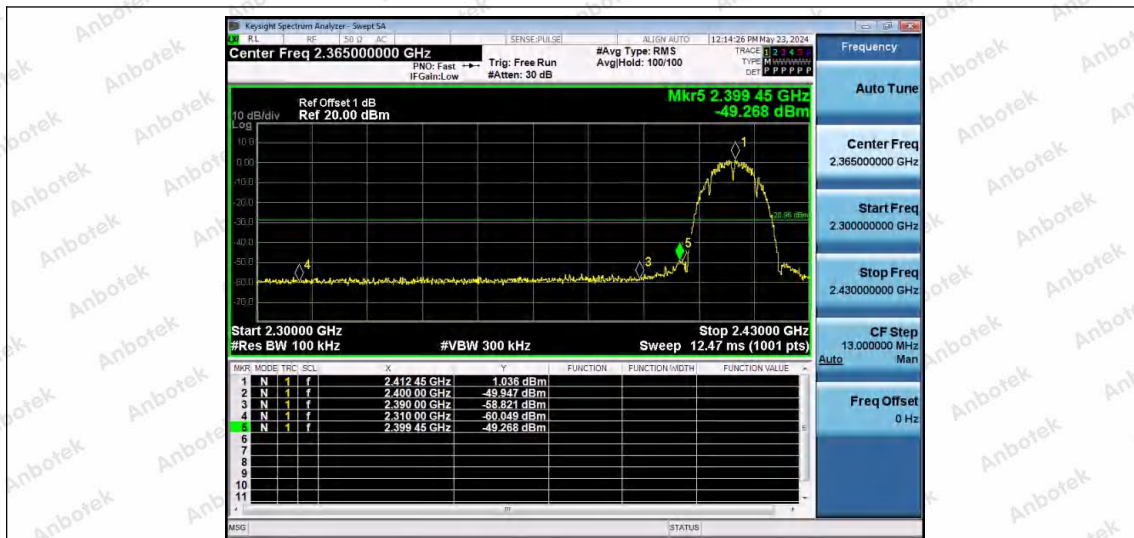
Appendix E: Conducted Band edge

Test Result

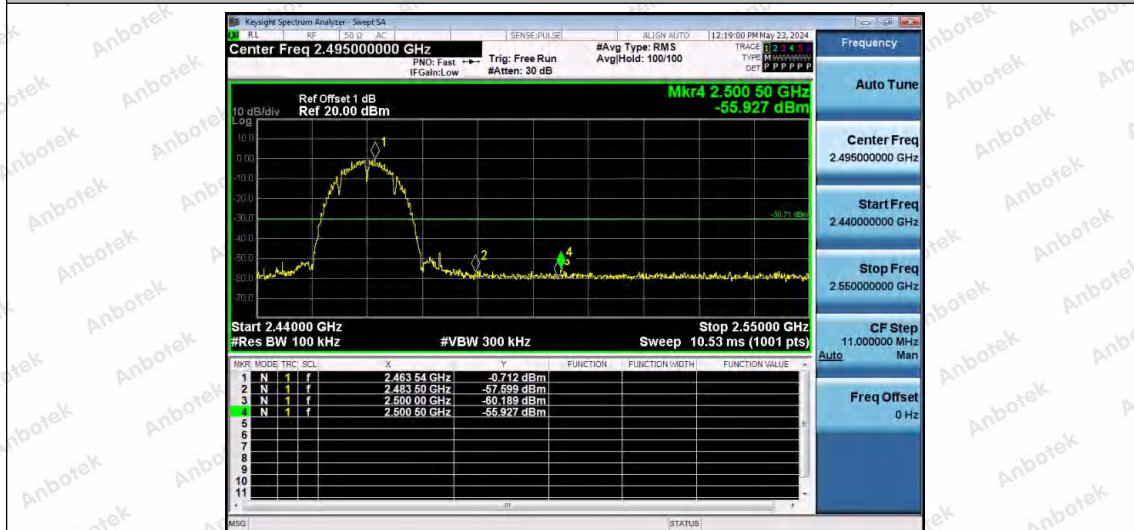
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.04	-49.27	≤-28.96	PASS
11B	Ant1	High	2462	-0.71	-55.93	≤-30.71	PASS
11G	Ant1	Low	2412	-3.83	-38.31	≤-33.83	PASS
11G	Ant1	High	2462	-6.31	-56.73	≤-36.31	PASS
11N20SISO	Ant1	Low	2412	-4.24	-37.66	≤-34.24	PASS
11N20SISO	Ant1	High	2462	-6.82	-55.11	≤-36.82	PASS



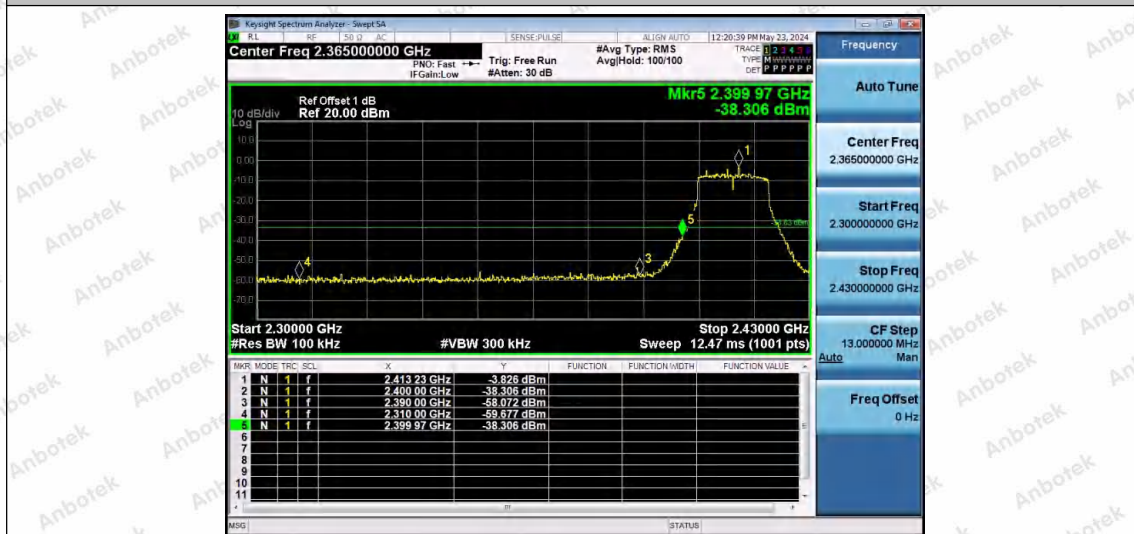
Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2462-PASS



11G-Ant1-2412-PASS

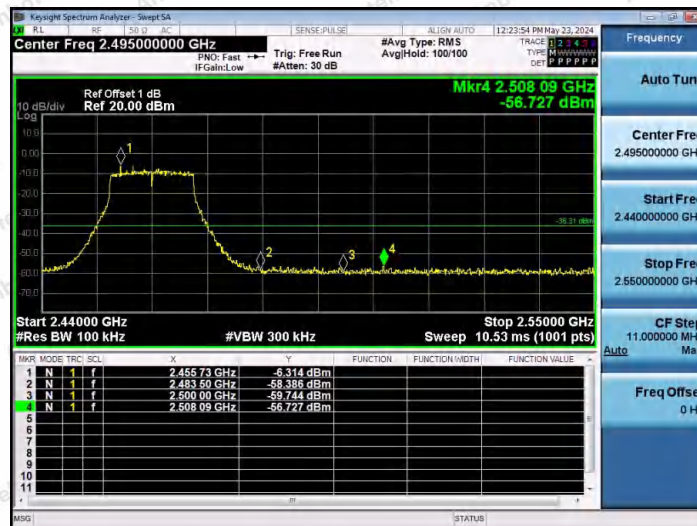
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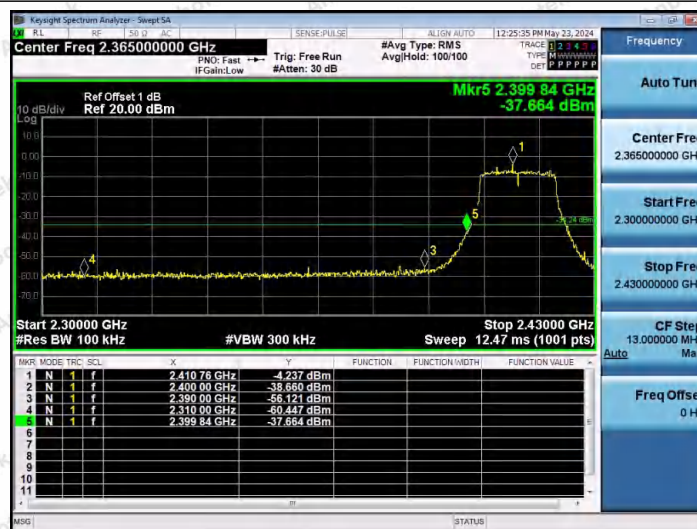


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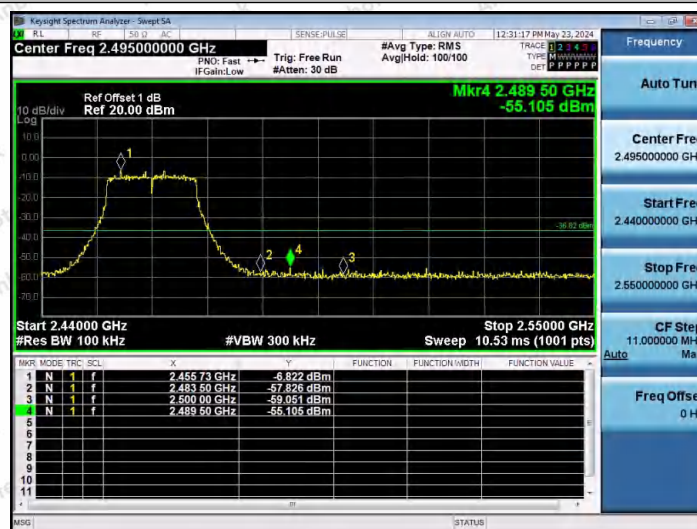




11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS

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Appendix F: Conducted Spurious Emission

Test Result

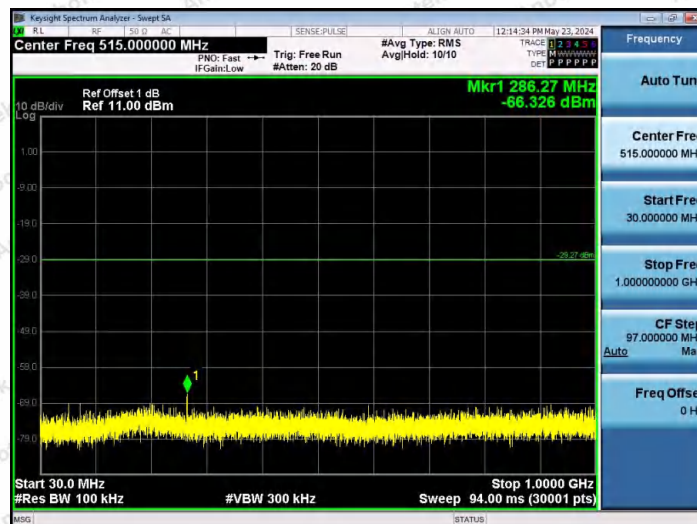
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	0.73	0.73	---	PASS
11B	Ant1	2412	30~1000	0.73	-66.33	≤-29.27	PASS
11B	Ant1	2412	1000~26500	0.73	-53.4	≤-29.27	PASS
11B	Ant1	2437	0~Reference	-0.14	-0.14	---	PASS
11B	Ant1	2437	30~1000	-0.14	-65.84	≤-30.14	PASS
11B	Ant1	2437	1000~26500	-0.14	-53.54	≤-30.14	PASS
11B	Ant1	2462	0~Reference	-0.48	-0.48	---	PASS
11B	Ant1	2462	30~1000	-0.48	-67.58	≤-30.48	PASS
11B	Ant1	2462	1000~26500	-0.48	-53.42	≤-30.48	PASS
11G	Ant1	2412	0~Reference	-4.58	-4.58	---	PASS
11G	Ant1	2412	30~1000	-4.58	-67.14	≤-34.58	PASS
11G	Ant1	2412	1000~26500	-4.58	-53.28	≤-34.58	PASS
11G	Ant1	2437	0~Reference	-8.07	-8.07	---	PASS
11G	Ant1	2437	30~1000	-8.07	-67.27	≤-38.07	PASS
11G	Ant1	2437	1000~26500	-8.07	-53.73	≤-38.07	PASS
11G	Ant1	2462	0~Reference	-5.36	-5.36	---	PASS
11G	Ant1	2462	30~1000	-5.36	-66.2	≤-35.36	PASS
11G	Ant1	2462	1000~26500	-5.36	-53.51	≤-35.36	PASS
11N20SISO	Ant1	2412	0~Reference	-5.27	-5.27	---	PASS
11N20SISO	Ant1	2412	30~1000	-5.27	-66.91	≤-35.27	PASS
11N20SISO	Ant1	2412	1000~26500	-5.27	-52.93	≤-35.27	PASS
11N20SISO	Ant1	2437	0~Reference	-7.37	-7.37	---	PASS
11N20SISO	Ant1	2437	30~1000	-7.37	-67.29	≤-37.37	PASS
11N20SISO	Ant1	2437	1000~26500	-7.37	-53.47	≤-37.37	PASS
11N20SISO	Ant1	2462	0~Reference	-6.40	-6.40	---	PASS
11N20SISO	Ant1	2462	30~1000	-6.40	-65.86	≤-36.4	PASS
11N20SISO	Ant1	2462	1000~26500	-6.40	-54.1	≤-36.4	PASS



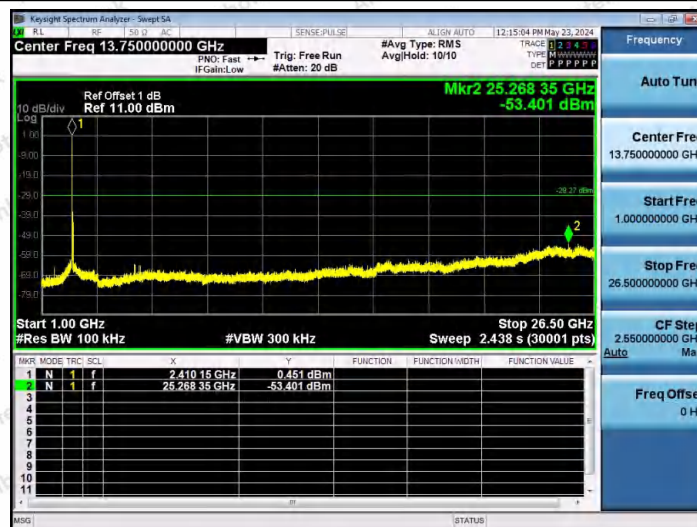
Test Graphs



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



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



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

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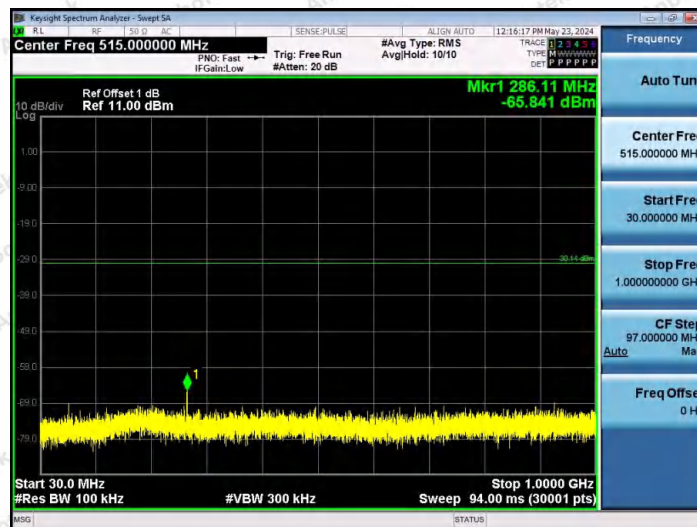


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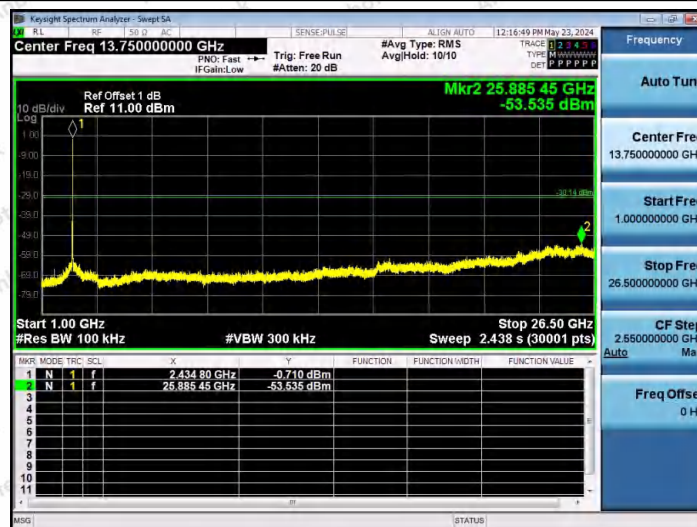




11B-Ant1-2437-0~Reference-PASS



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



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

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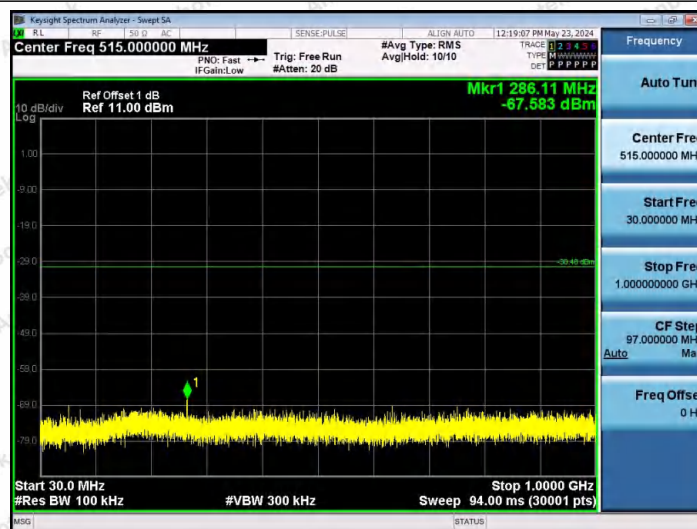
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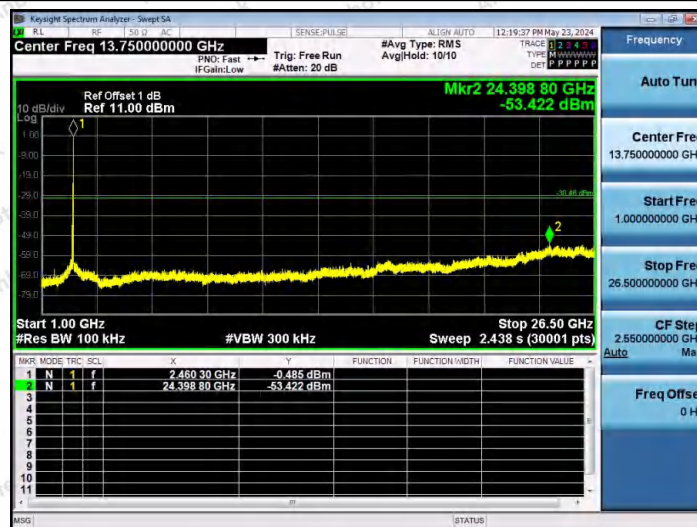




11B-Ant1-2462-0~Reference-PASS



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



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

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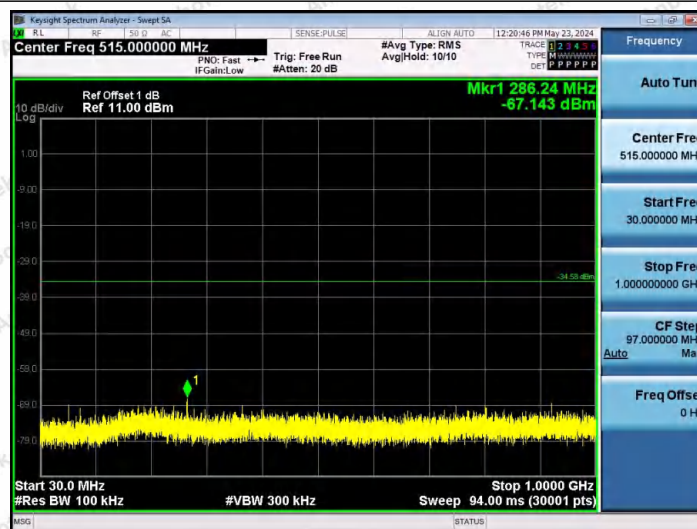
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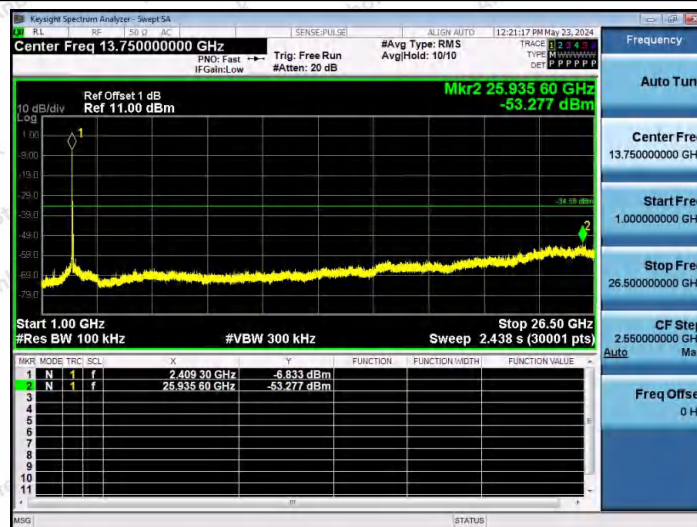




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11G-Ant1-2412-30~1000-PASS



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

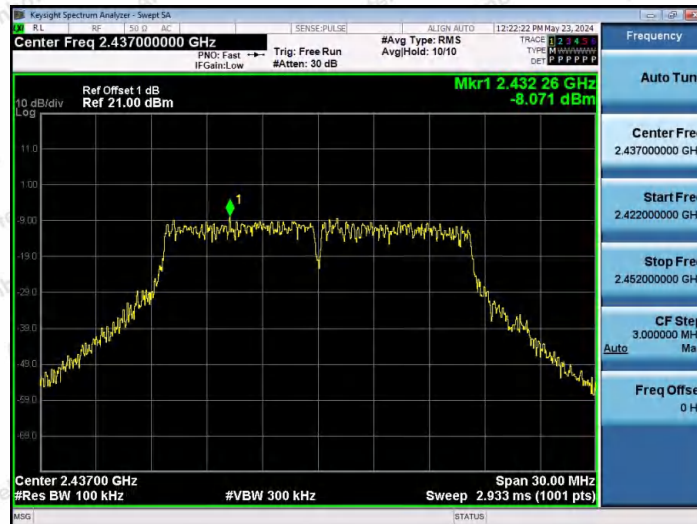
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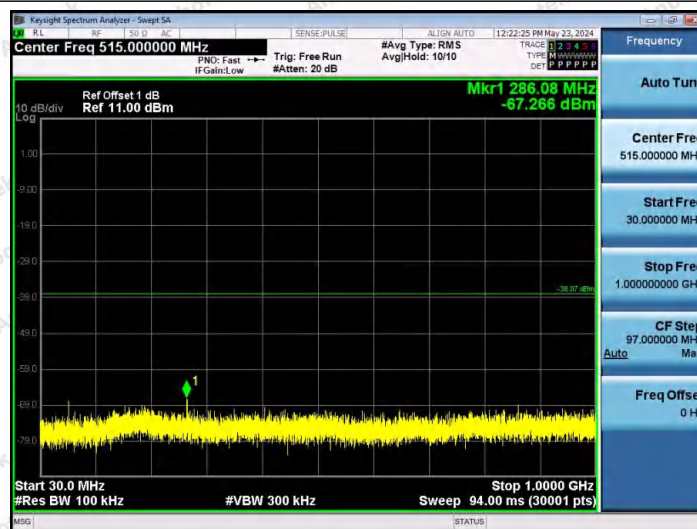


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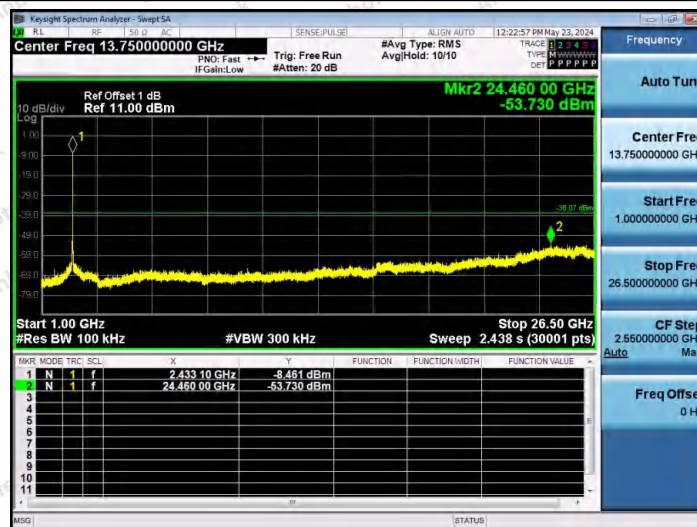




11G-Ant1-2437-0~Reference-PASS



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



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

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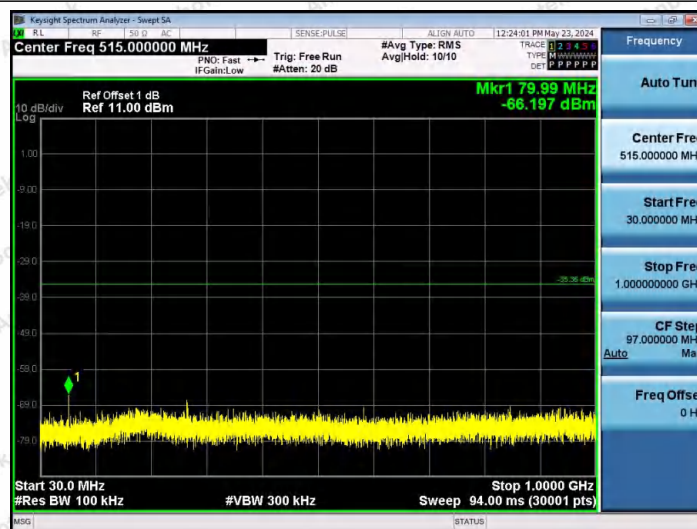


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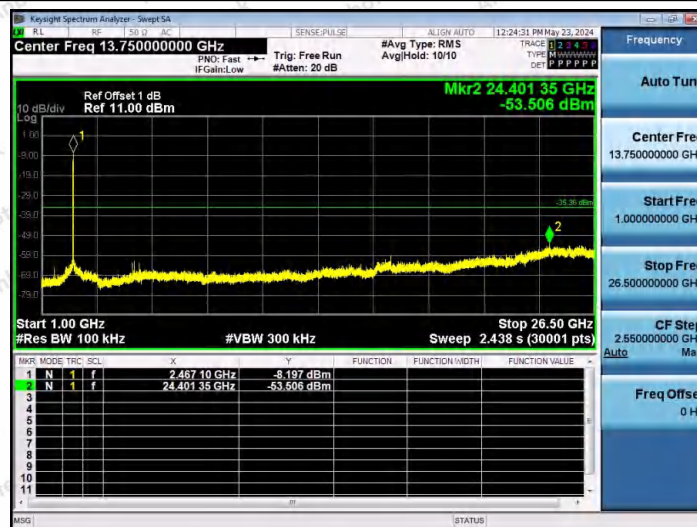




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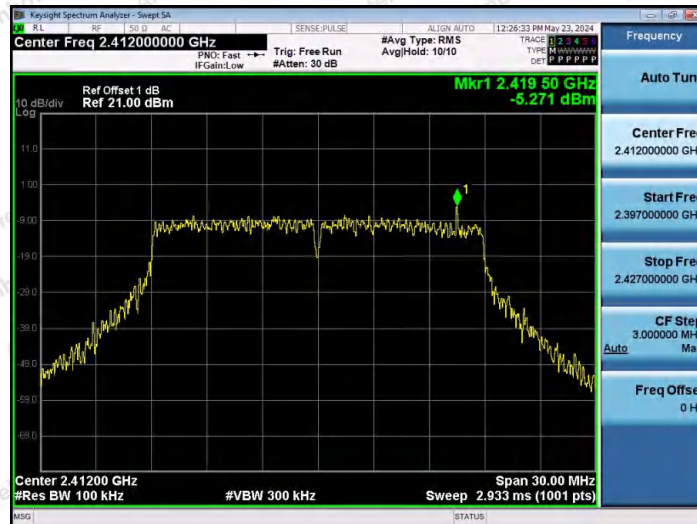
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

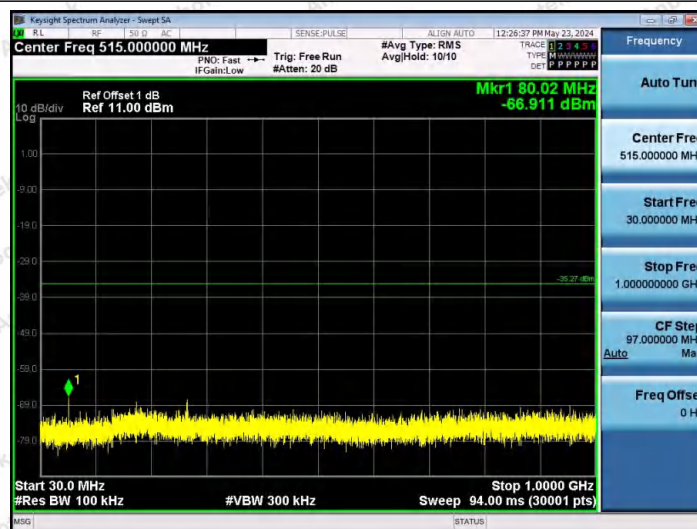


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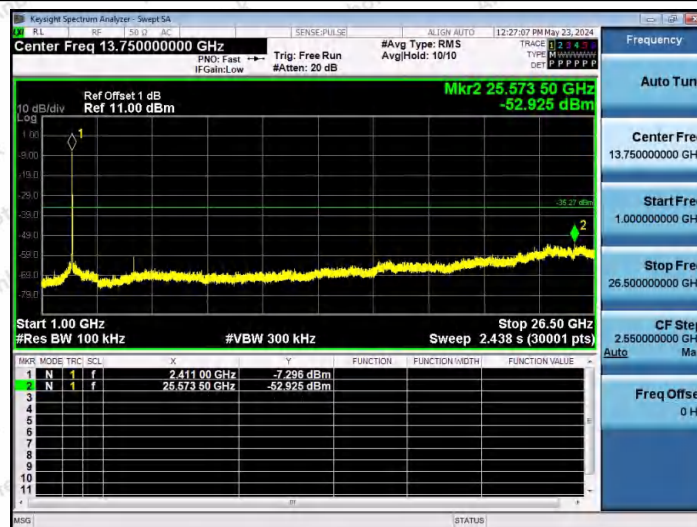




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11N20SISO-Ant1-2412-30~1000-PASS



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

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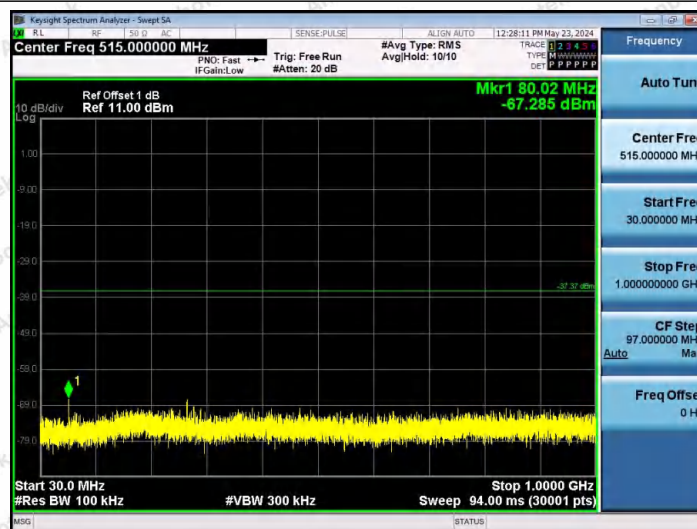


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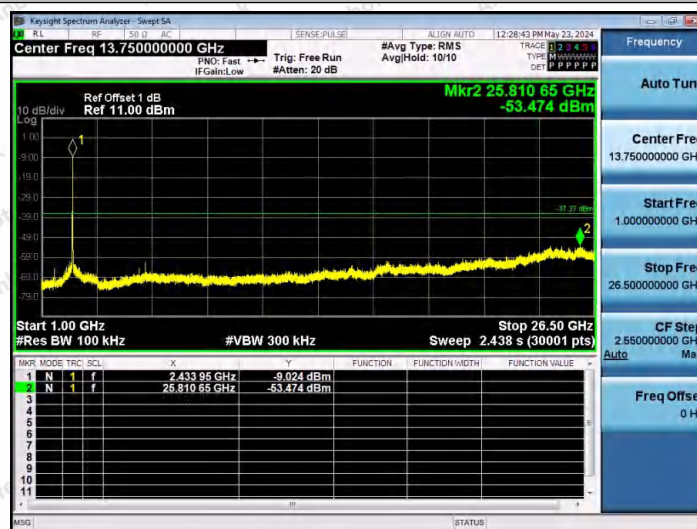




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11N20SISO-Ant1-2437-1000~26500-PASS

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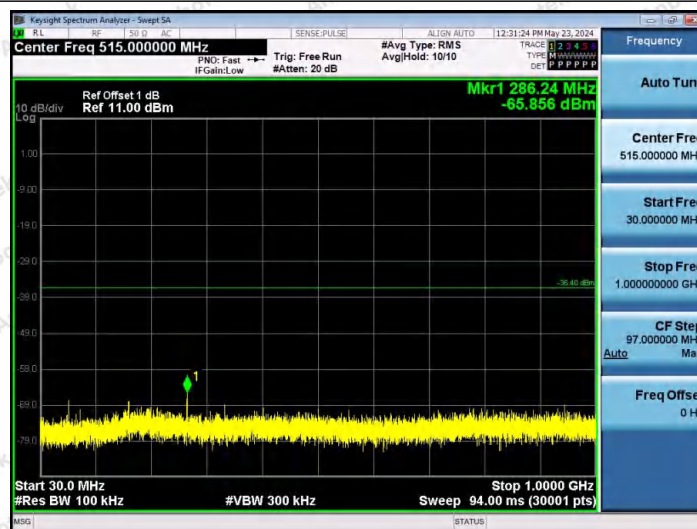
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

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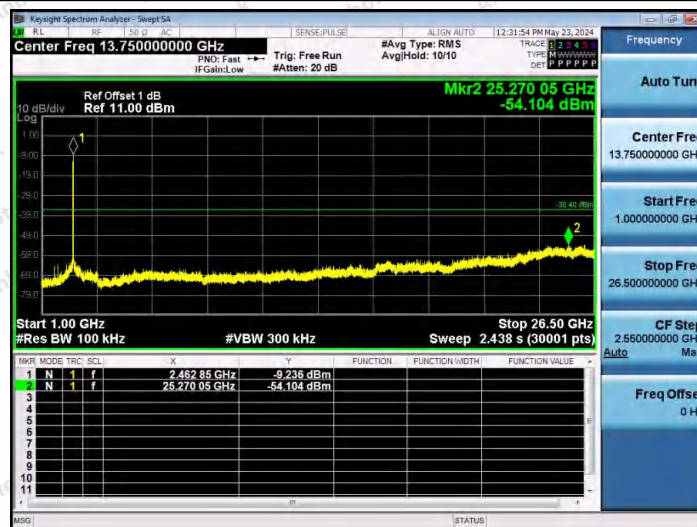




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11N20SISO-Ant1-2462-30~1000-PASS



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

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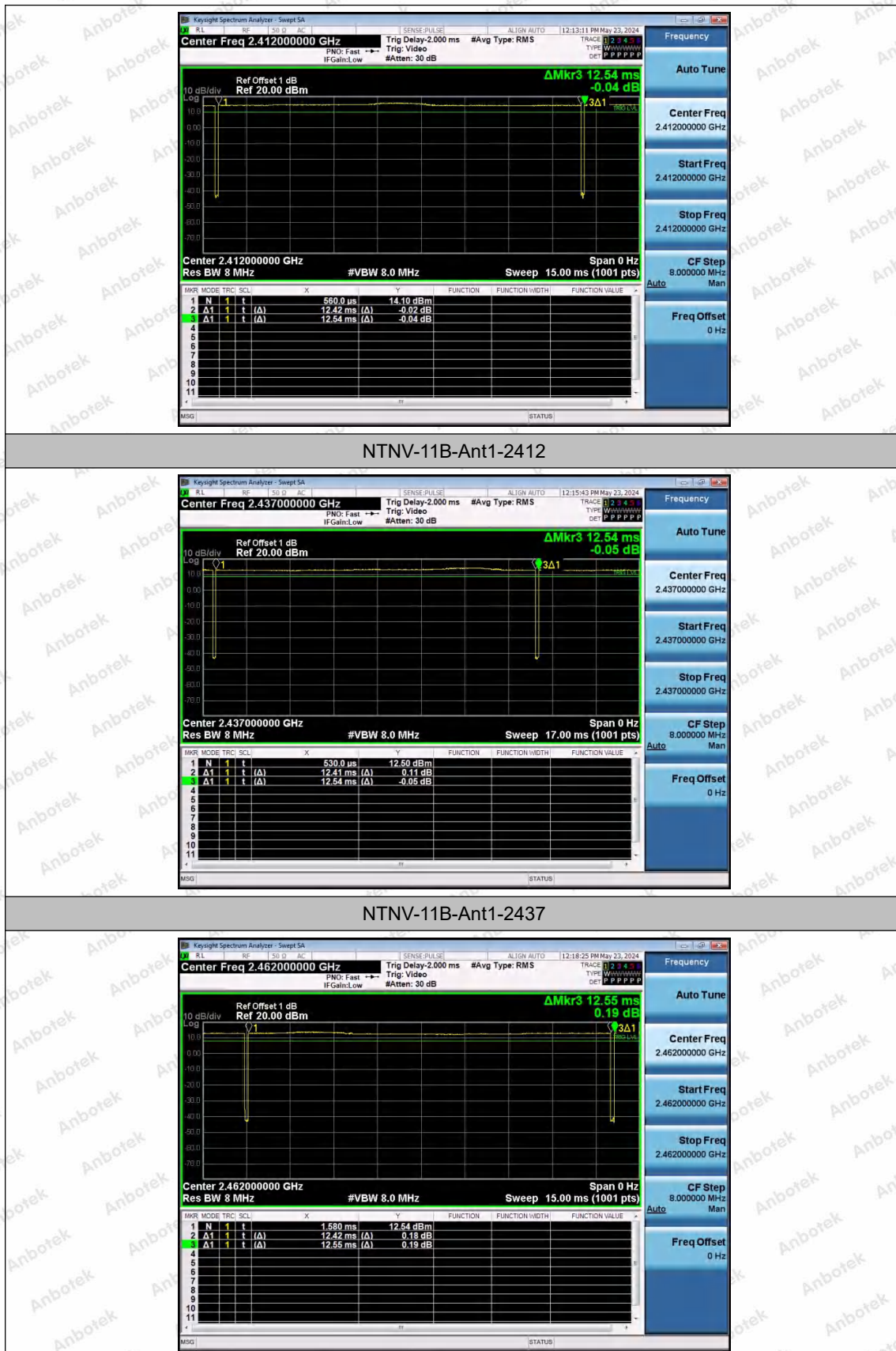
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.42	12.54	99.04	0.04
11B	Ant1	2437	12.41	12.54	98.96	0.05
11B	Ant1	2462	12.42	12.55	98.96	0.05
11G	Ant1	2412	2.07	2.20	94.09	0.26
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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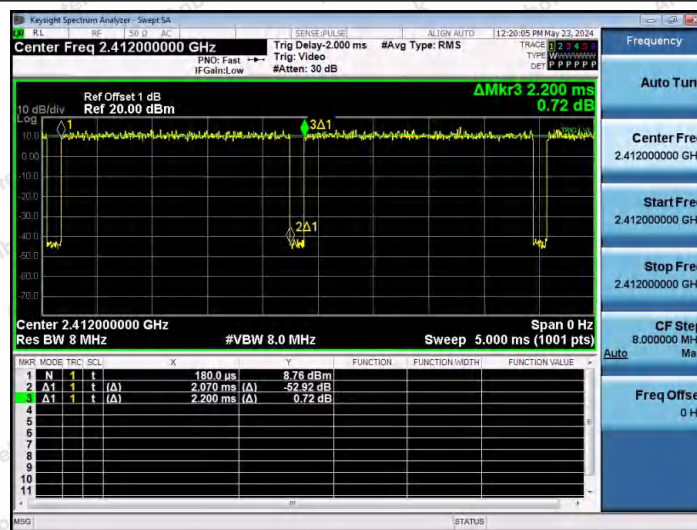
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



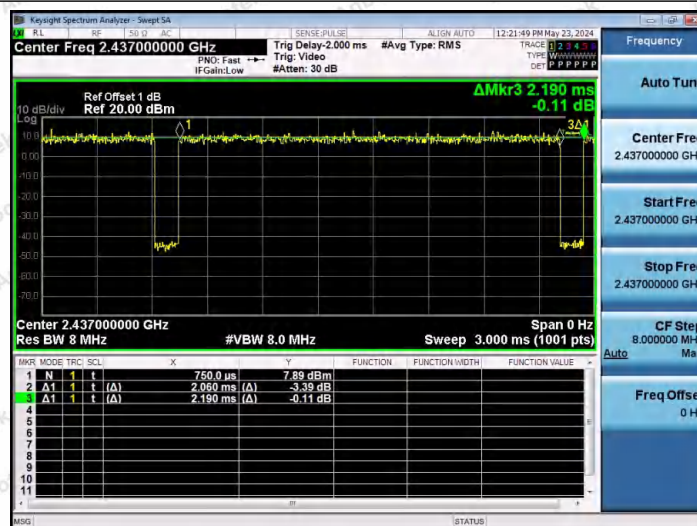
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NTNV-11B-Ant1-2462



NTNV-11G-Ant1-2412



NTNV-11G-Ant1-2437



NTNV-11G-Ant1-2462

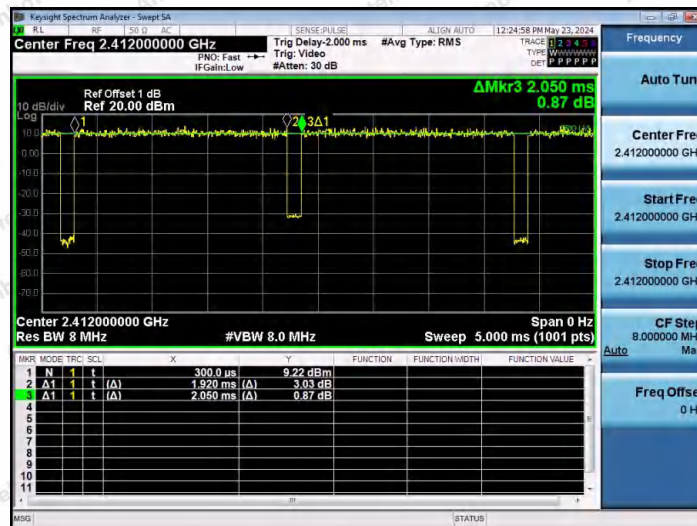
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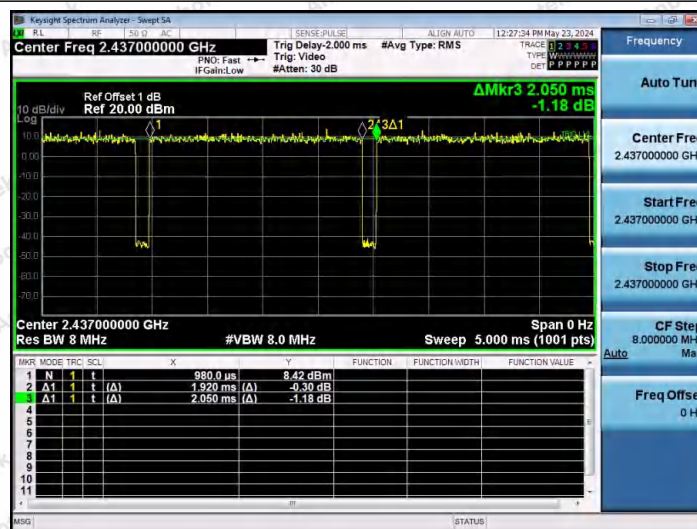


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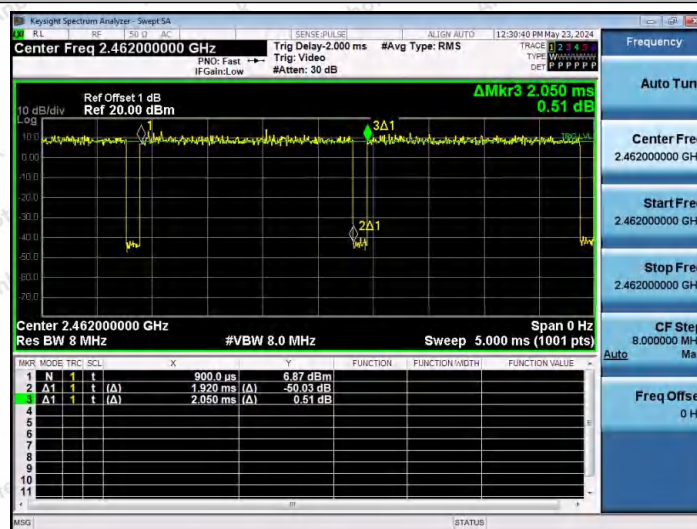




NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437



NTNV-11N20SISO-Ant1-2462

---End---

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