

Appendix Test Data

Report No.:	18220WC40074703	Test Sample No.:	1-2-2
Start Test Date:	2024.04.19	Finish Test Date:	2024.04.22
Test Engineer:	Joker Huang	Auditor:	Justin Feng
Temperature:	24.3℃	Relative Humidity:	49%
Pressure:	101kPa		

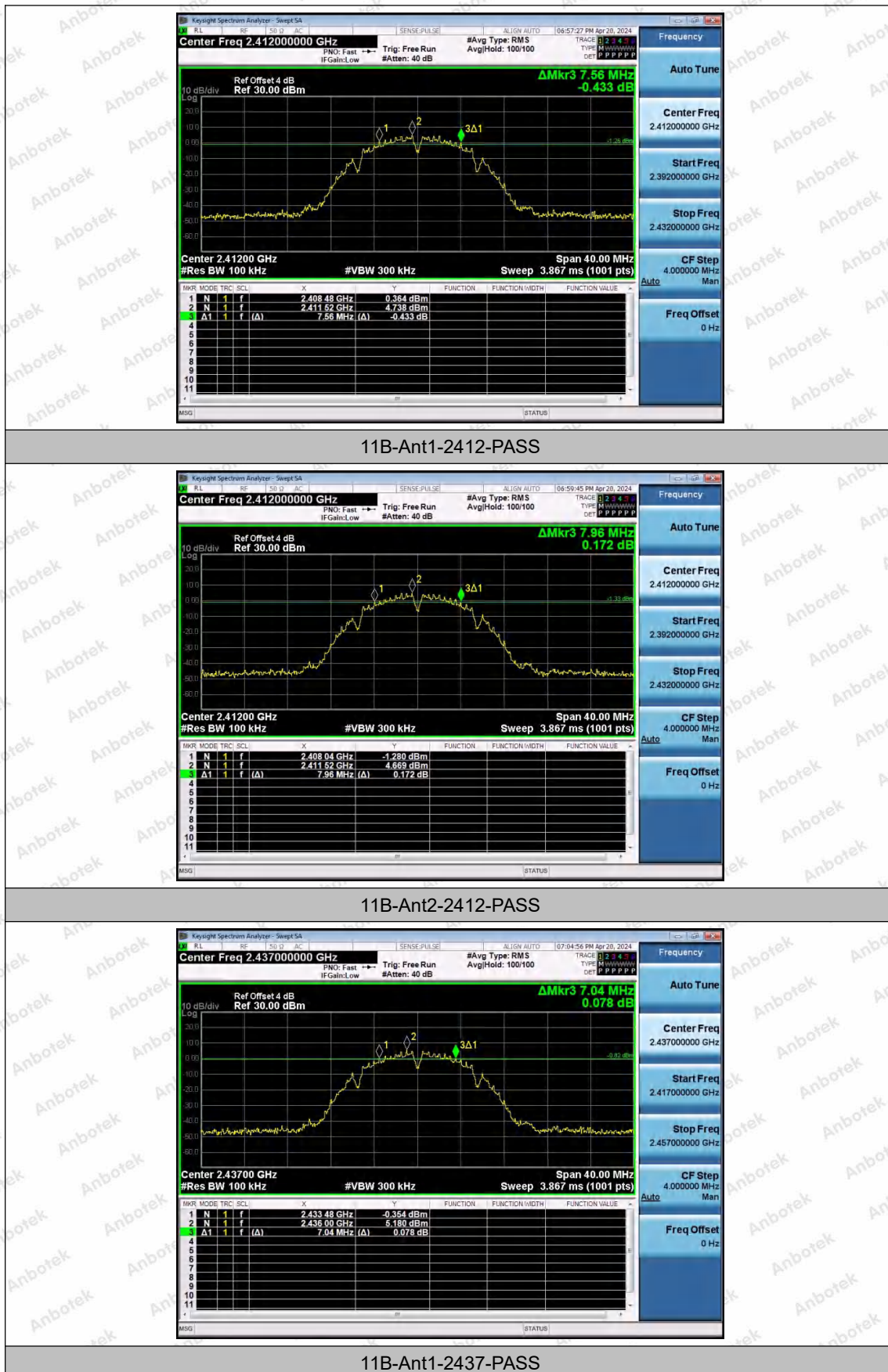
Appendix A: 6dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.560	2408.480	2416.040	0.5	PASS
11B	Ant2	2412	7.960	2408.040	2416.000	0.5	PASS
11B	Ant1	2437	7.040	2433.480	2440.520	0.5	PASS
11B	Ant2	2437	7.080	2433.480	2440.560	0.5	PASS
11B	Ant1	2462	7.560	2458.480	2466.040	0.5	PASS
11B	Ant2	2462	7.080	2458.480	2465.560	0.5	PASS
11G	Ant1	2412	16.080	2404.120	2420.200	0.5	PASS
11G	Ant2	2412	16.360	2403.840	2420.200	0.5	PASS
11G	Ant1	2437	16.280	2428.880	2445.160	0.5	PASS
11G	Ant2	2437	16.360	2428.840	2445.200	0.5	PASS
11G	Ant1	2462	16.280	2453.880	2470.160	0.5	PASS
11G	Ant2	2462	16.360	2453.840	2470.200	0.5	PASS
11N20MIMO	Ant1	2412	17.360	2403.480	2420.840	0.5	PASS
11N20MIMO	Ant2	2412	16.920	2403.880	2420.800	0.5	PASS
11N20MIMO	Ant1	2437	17.520	2428.280	2445.800	0.5	PASS
11N20MIMO	Ant2	2437	17.560	2428.240	2445.800	0.5	PASS
11N20MIMO	Ant1	2462	17.560	2453.240	2470.800	0.5	PASS
11N20MIMO	Ant2	2462	17.560	2453.240	2470.800	0.5	PASS
11AX20MIMO	Ant1	2412	18.680	2402.760	2421.440	0.5	PASS
11AX20MIMO	Ant2	2412	18.040	2403.400	2421.440	0.5	PASS
11AX20MIMO	Ant1	2437	18.960	2427.560	2446.520	0.5	PASS
11AX20MIMO	Ant2	2437	18.640	2427.720	2446.360	0.5	PASS
11AX20MIMO	Ant1	2462	17.920	2453.400	2471.320	0.5	PASS
11AX20MIMO	Ant2	2462	18.640	2452.760	2471.400	0.5	PASS



Test Graphs



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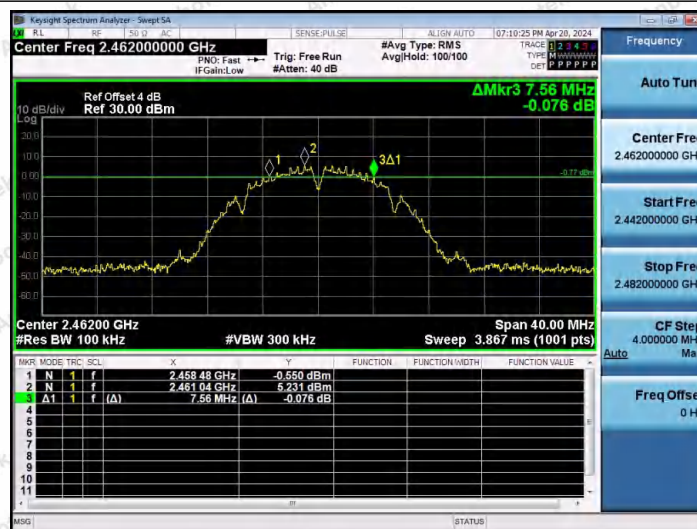


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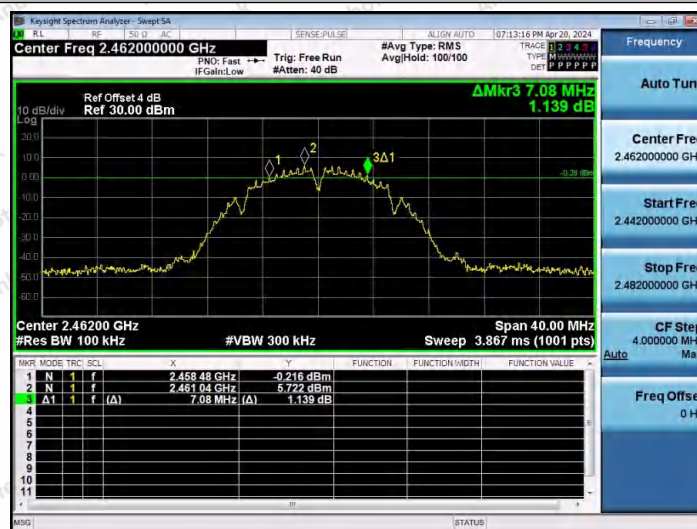




11B-Ant2-2437-PASS



11B-Ant1-2462-PASS



11B-Ant2-2462-PASS

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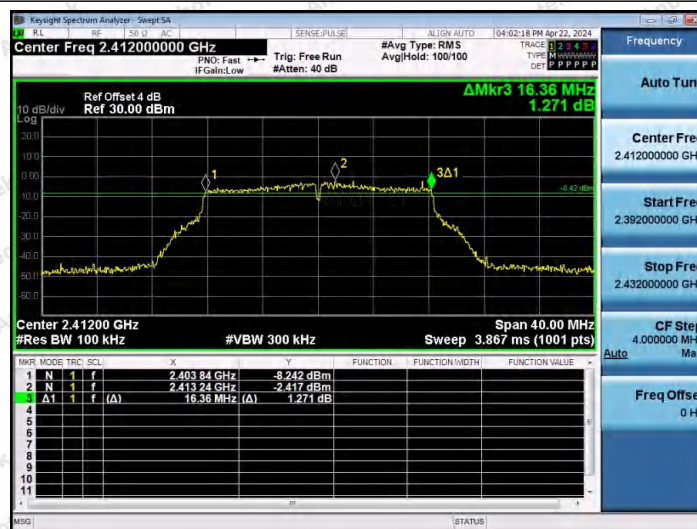


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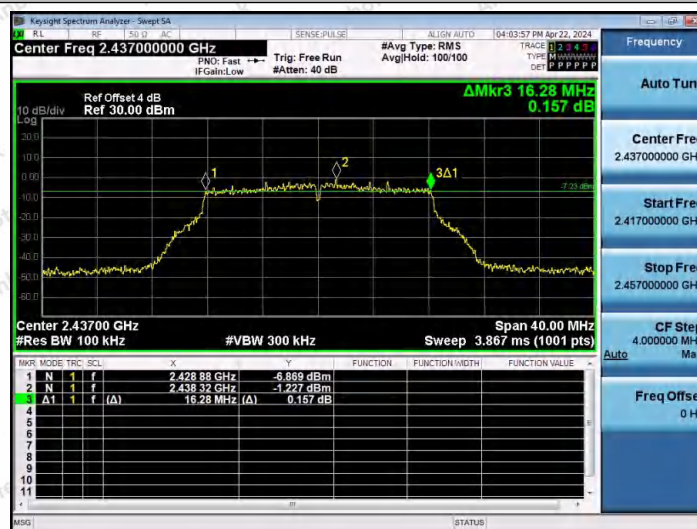




11G-Ant1-2412-PASS



11G-Ant2-2412-PASS



11G-Ant1-2437-PASS

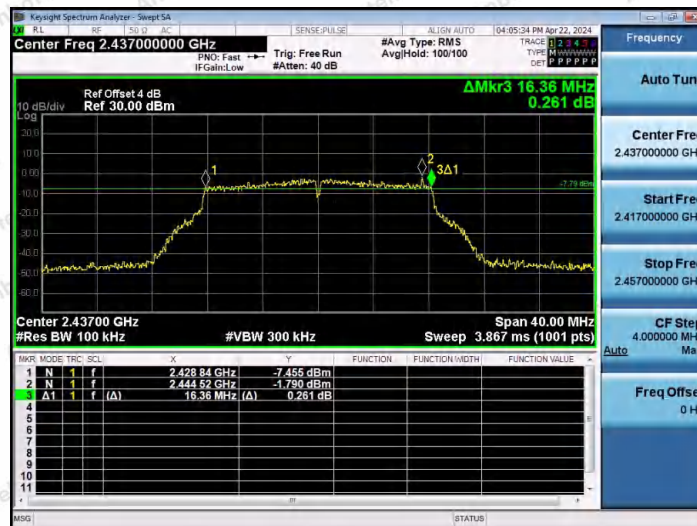
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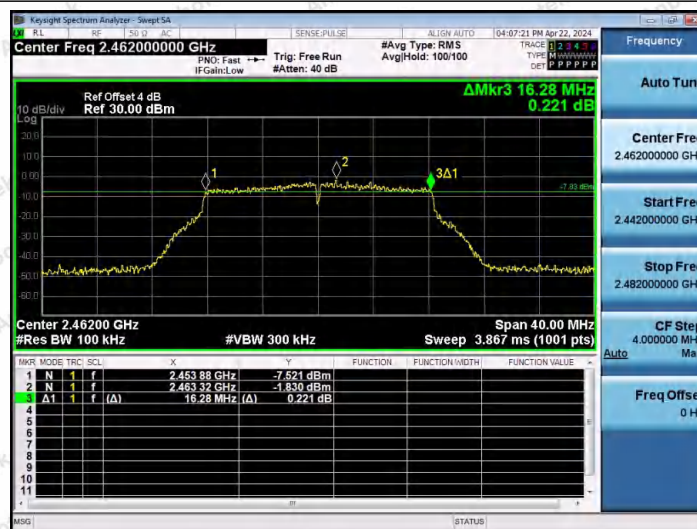


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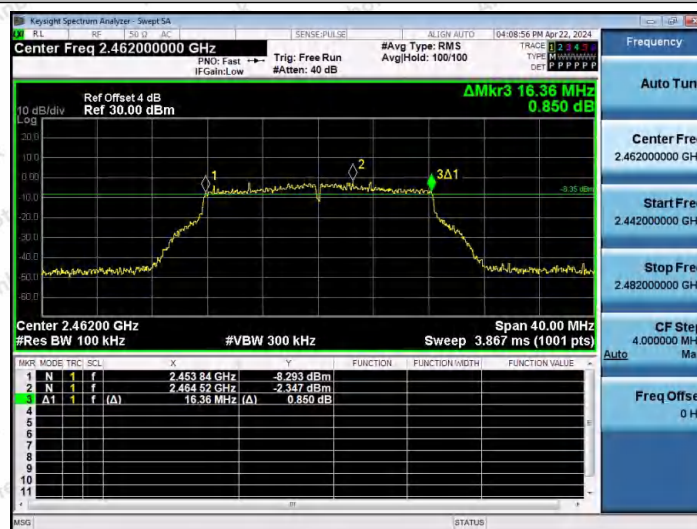




11G-Ant2-2437-PASS



11G-Ant1-2462-PASS



11G-Ant2-2462-PASS

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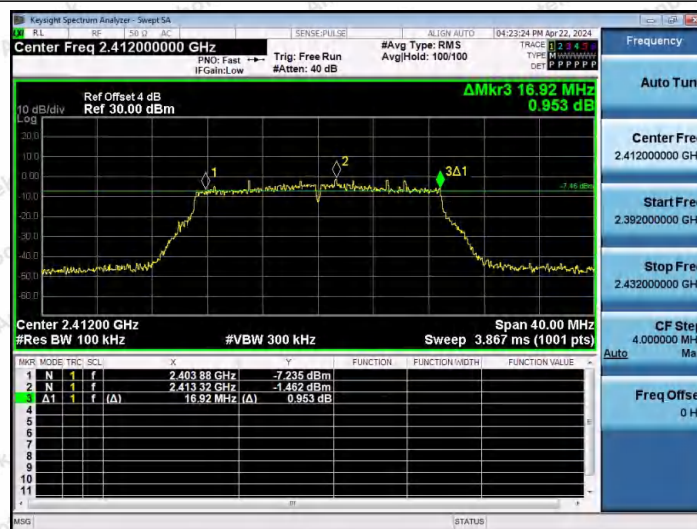
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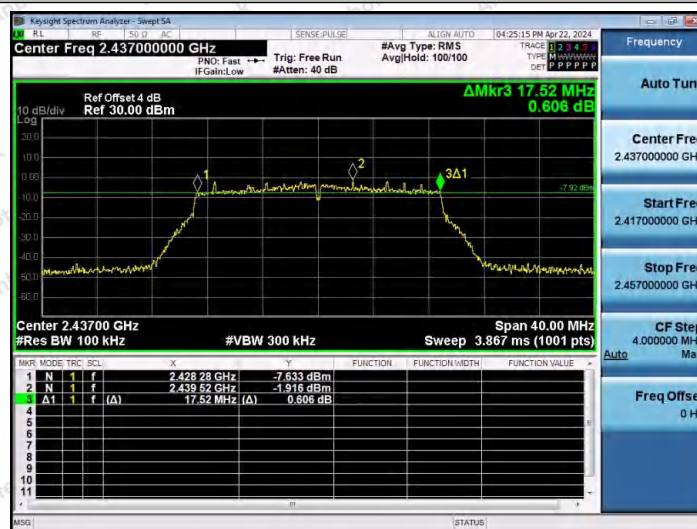




11N20MIMO-Ant1-2412-PASS



11N20MIMO-Ant2-2412-PASS



11N20MIMO-Ant1-2437-PASS

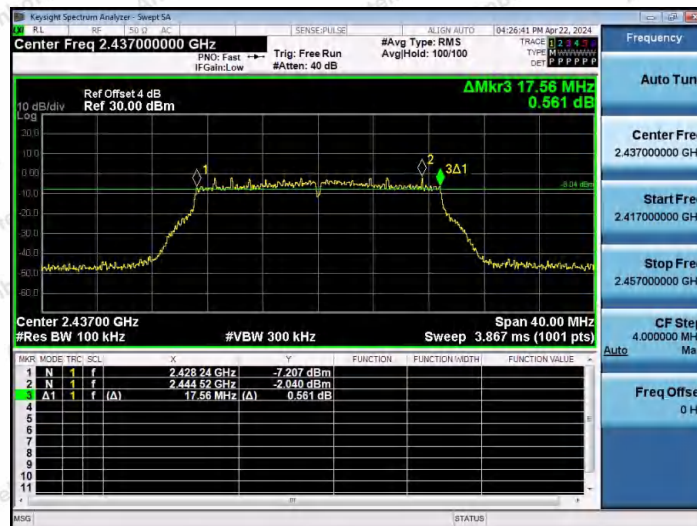
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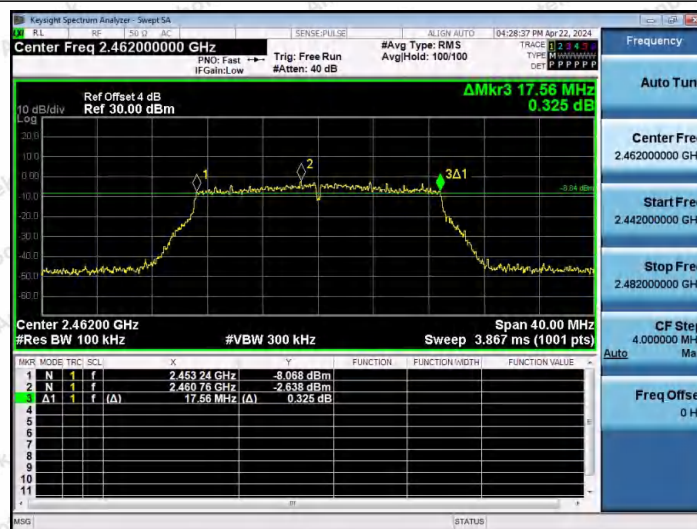


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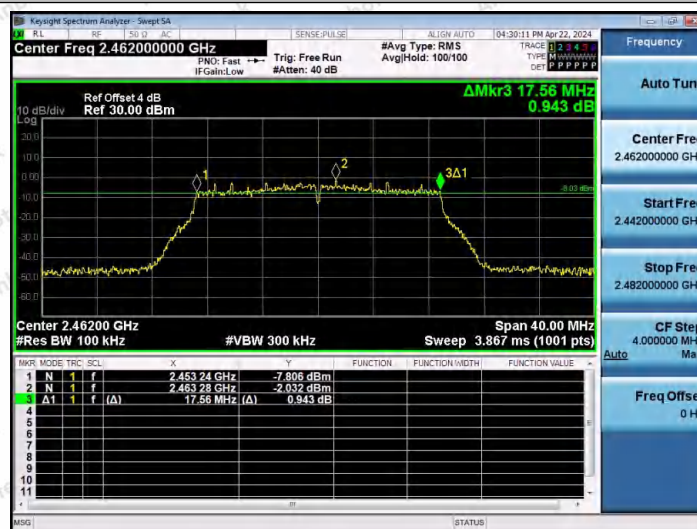




11N20MIMO-Ant2-2437-PASS



11N20MIMO-Ant1-2462-PASS



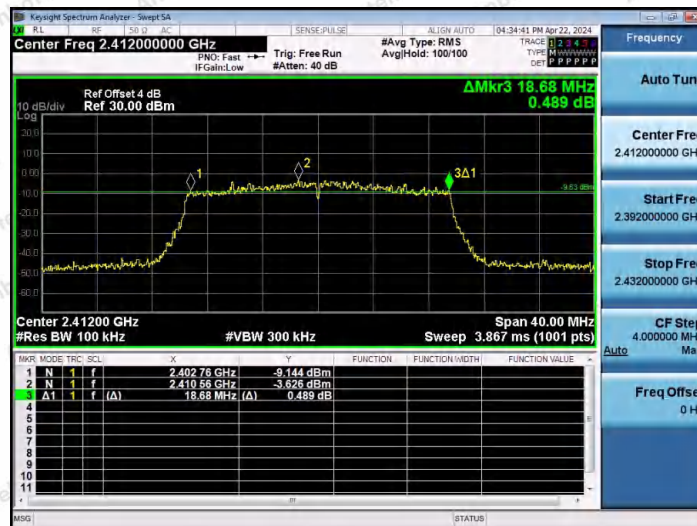
11N20MIMO-Ant2-2462-PASS

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11AX20MIMO-Ant1-2412-PASS



11AX20MIMO-Ant2-2412-PASS



11AX20MIMO-Ant1-2437-PASS

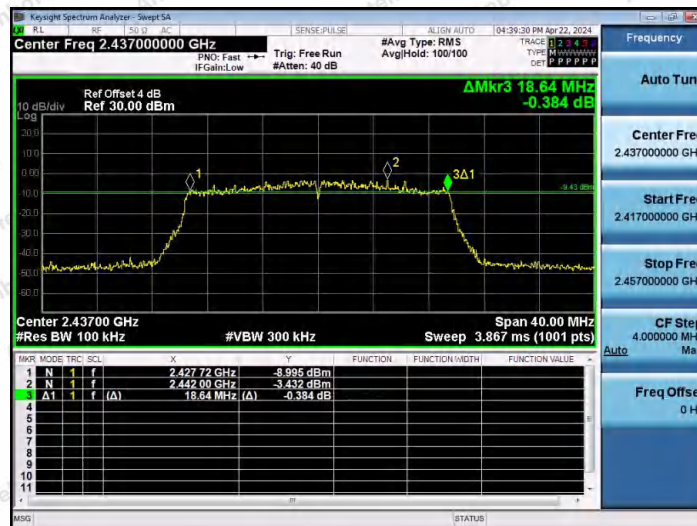
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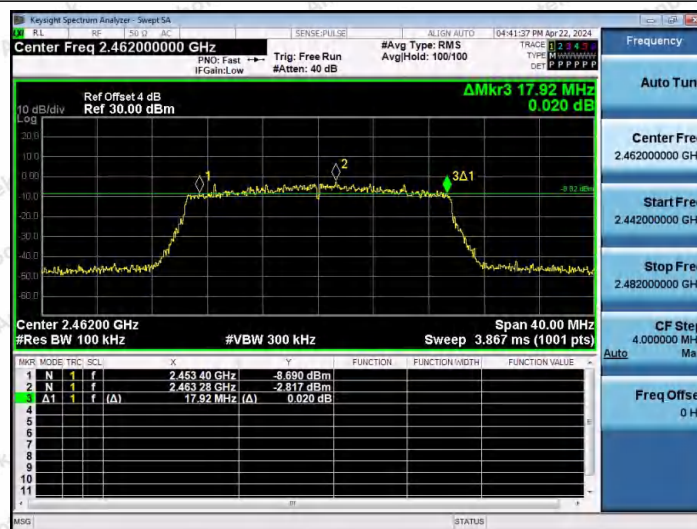


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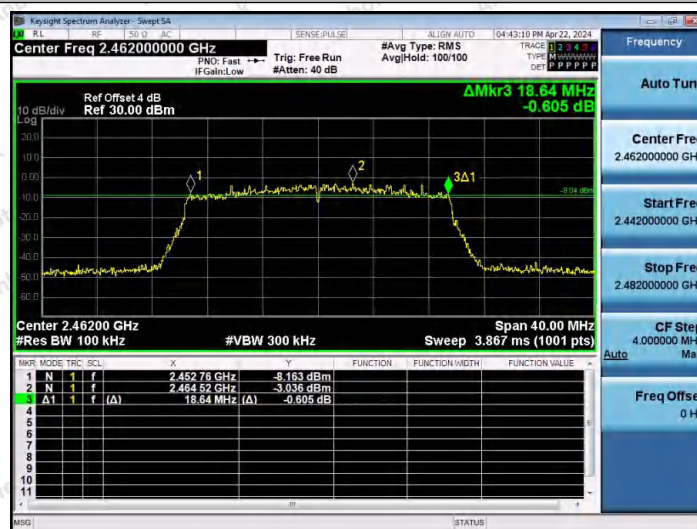




11AX20MIMO-Ant2-2437-PASS



11AX20MIMO-Ant1-2462-PASS



11AX20MIMO-Ant2-2462-PASS

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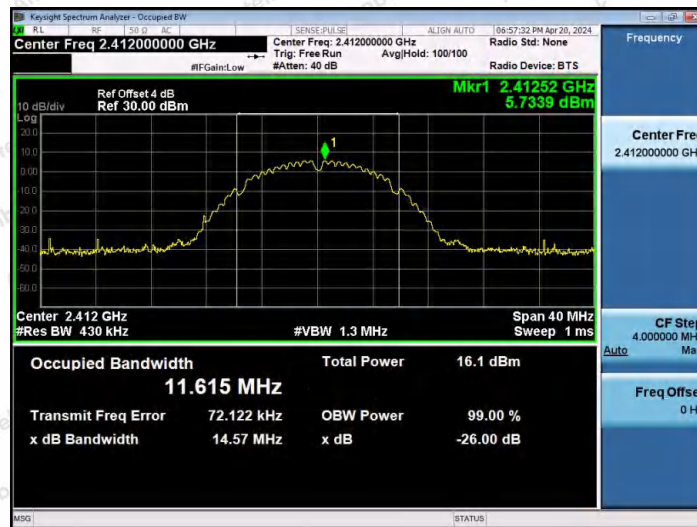
Appendix B: 99% Occupied Bandwidth

Test Result

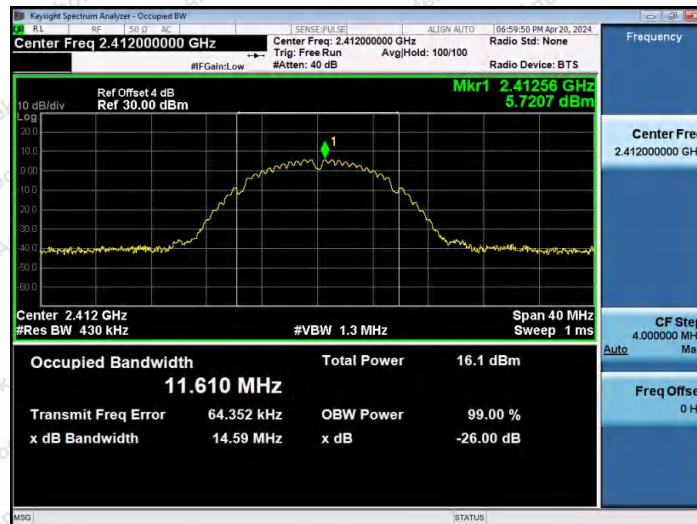
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.615	2406.2646	2417.8796	---	---
11B	Ant2	2412	11.610	2406.2594	2417.8694	---	---
11B	Ant1	2437	11.575	2431.2985	2442.8735	---	---
11B	Ant2	2437	11.583	2431.2979	2442.8809	---	---
11B	Ant1	2462	11.578	2456.2929	2467.8709	---	---
11B	Ant2	2462	11.587	2456.2908	2467.8778	---	---
11G	Ant1	2412	17.060	2403.5760	2420.6360	---	---
11G	Ant2	2412	17.109	2403.5051	2420.6141	---	---
11G	Ant1	2437	17.073	2428.5331	2445.6061	---	---
11G	Ant2	2437	17.109	2428.4943	2445.6033	---	---
11G	Ant1	2462	17.193	2453.4812	2470.6742	---	---
11G	Ant2	2462	17.075	2453.5063	2470.5813	---	---
11N20MIMO	Ant1	2412	18.294	2402.9235	2421.2175	---	---
11N20MIMO	Ant2	2412	18.205	2402.9492	2421.1542	---	---
11N20MIMO	Ant1	2437	18.205	2427.9869	2446.1919	---	---
11N20MIMO	Ant2	2437	18.219	2427.9724	2446.1914	---	---
11N20MIMO	Ant1	2462	18.196	2452.9691	2471.1651	---	---
11N20MIMO	Ant2	2462	18.240	2452.9557	2471.1957	---	---
11AX20MIMO	Ant1	2412	18.960	2402.5681	2421.5281	---	---
11AX20MIMO	Ant2	2412	19.053	2402.5291	2421.5821	---	---
11AX20MIMO	Ant1	2437	19.002	2427.5531	2446.5551	---	---
11AX20MIMO	Ant2	2437	19.014	2427.5505	2446.5645	---	---
11AX20MIMO	Ant1	2462	18.993	2452.5835	2471.5765	---	---
11AX20MIMO	Ant2	2462	19.020	2452.5691	2471.5891	---	---



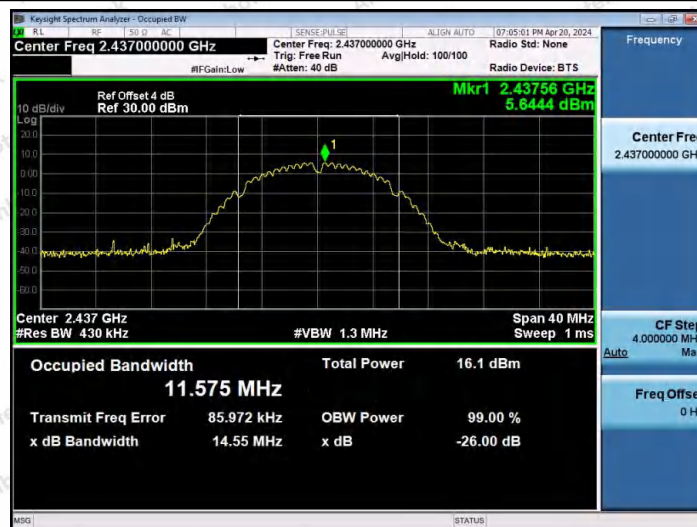
Test Graphs



11B-Ant1-2412



11B-Ant2-2412



11B-Ant1-2437

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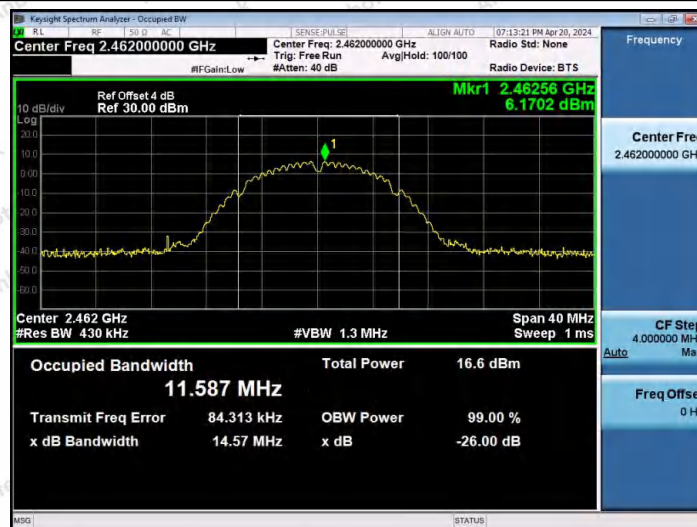




11B-Ant2-2437



11B-Ant1-2462



11B-Ant2-2462

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11G-Ant1-2412



11G-Ant2-2412



11G-Ant1-2437

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11G-Ant2-2437



11G-Ant1-2462



11G-Ant2-2462

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11N20MIMO-Ant1-2412



11N20MIMO-Ant2-2412



11N20MIMO-Ant1-2437

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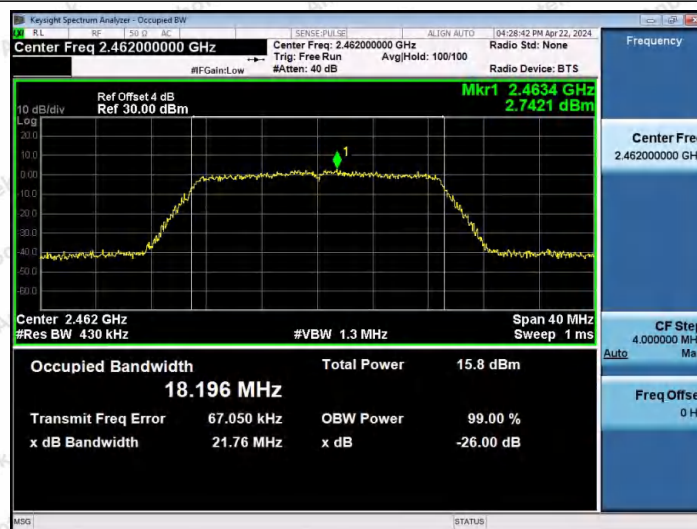


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11N20MIMO-Ant2-2437



11N20MIMO-Ant1-2462



11N20MIMO-Ant2-2462

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11AX20MIMO-Ant1-2412



11AX20MIMO-Ant2-2412



11AX20MIMO-Ant1-2437

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11AX20MIMO-Ant2-2437



11AX20MIMO-Ant1-2462



11AX20MIMO-Ant2-2462

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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]	EIRP [dBm]	Verdict
11B	Ant1	2412	14.60	100.00	0.00	14.60	≤30.00	14.60	PASS
11B	Ant2	2412	14.60	100.00	0.00	14.60	≤30.00	14.60	PASS
11B	Ant1	2437	14.53	100.00	0.00	14.53	≤30.00	14.53	PASS
11B	Ant2	2437	14.53	100.00	0.00	14.53	≤30.00	14.53	PASS
11B	Ant1	2462	15.02	100.00	0.00	15.02	≤30.00	15.02	PASS
11B	Ant2	2462	15.03	100.00	0.00	15.03	≤30.00	15.03	PASS
11G	Ant1	2412	14.41	99.04	0.04	14.45	≤30.00	14.45	PASS
11G	Ant2	2412	14.48	99.04	0.04	14.52	≤30.00	14.52	PASS
11G	Ant1	2437	14.63	99.04	0.04	14.67	≤30.00	14.67	PASS
11G	Ant2	2437	14.60	99.04	0.04	14.64	≤30.00	14.64	PASS
11G	Ant1	2462	14.45	99.04	0.04	14.49	≤30.00	14.49	PASS
11G	Ant2	2462	14.39	99.04	0.04	14.43	≤30.00	14.43	PASS
11N20MIMO	Ant1	2412	14.25	92.86	0.32	14.57	≤30.00	14.57	PASS
11N20MIMO	Ant2	2412	14.17	92.91	0.32	14.49	≤30.00	14.49	PASS
11N20MIMO	total	2412	---	---	---	17.54	≤30.00	17.54	PASS
11N20MIMO	Ant1	2437	14.48	92.91	0.32	14.80	≤30.00	14.80	PASS
11N20MIMO	Ant2	2437	14.41	92.86	0.32	14.73	≤30.00	14.73	PASS
11N20MIMO	total	2437	---	---	---	17.78	≤30.00	17.78	PASS

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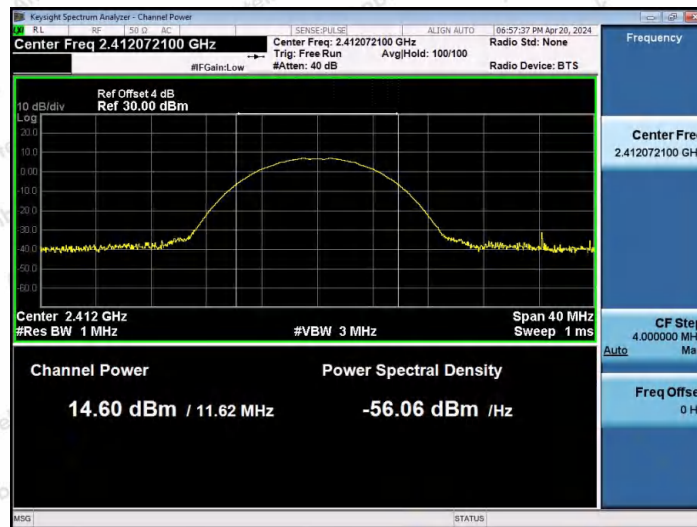


							0	8	
11N20MIMO	Ant1	2462	14.19	92.91	0.32	14.51	≤30.0 0	14.5 1	PASS
11N20MIMO	Ant2	2462	14.19	92.91	0.32	14.51	≤30.0 0	14.5 1	PASS
11N20MIMO	total	2462	---	---	---	17.52	≤30.0 0	17.5 2	PASS
11AX20MIM O	Ant1	2412	13.86	87.39	0.59	14.45	≤30.0 0	14.4 5	PASS
11AX20MIM O	Ant2	2412	13.85	87.50	0.58	14.43	≤30.0 0	14.4 3	PASS
11AX20MIM O	total	2412	---	---	---	17.45	≤30.0 0	17.4 5	PASS
11AX20MIM O	Ant1	2437	14.28	87.50	0.58	14.86	≤30.0 0	14.8 6	PASS
11AX20MIM O	Ant2	2437	14.13	87.50	0.58	14.71	≤30.0 0	14.7 1	PASS
11AX20MIM O	total	2437	---	---	---	17.80	≤30.0 0	17.8 0	PASS
11AX20MIM O	Ant1	2462	14.32	87.50	0.58	14.90	≤30.0 0	14.9 0	PASS
11AX20MIM O	Ant2	2462	14.27	87.50	0.58	14.85	≤30.0 0	14.8 5	PASS
11AX20MIM O	total	2462	---	---	---	17.89	≤30.0 0	17.8 9	PASS

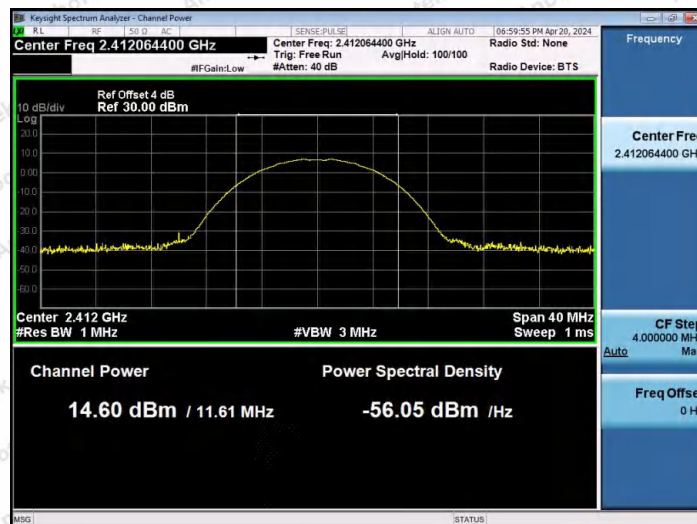
Note: The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.



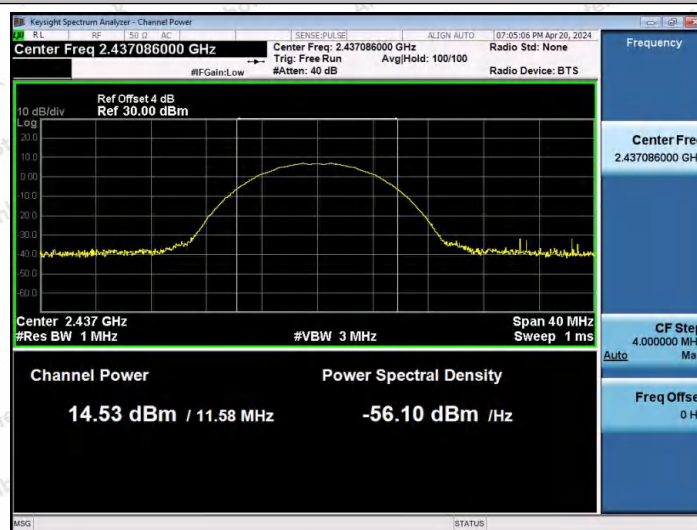
Test Graphs Average



11B-Ant1-2412-PASS



11B-Ant2-2412-PASS



11B-Ant1-2437-PASS

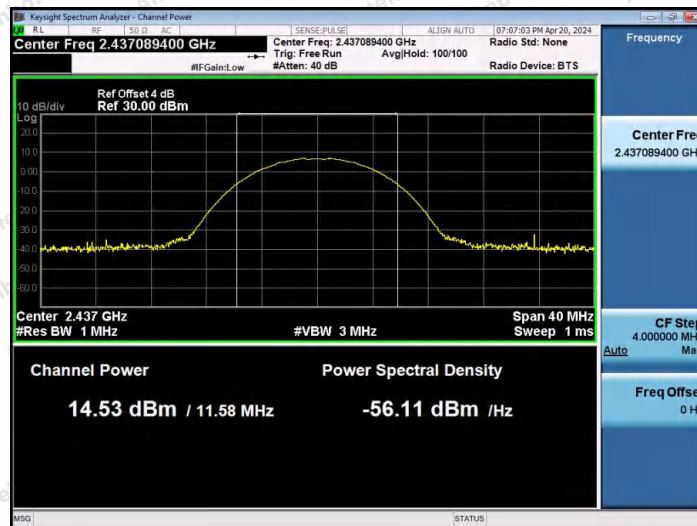
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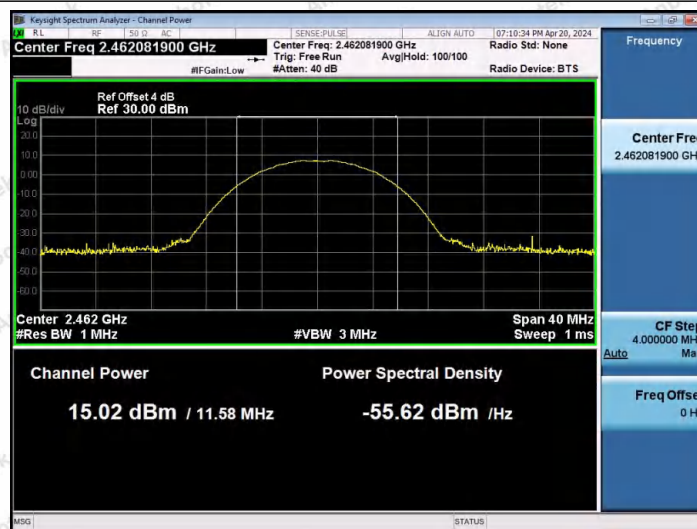


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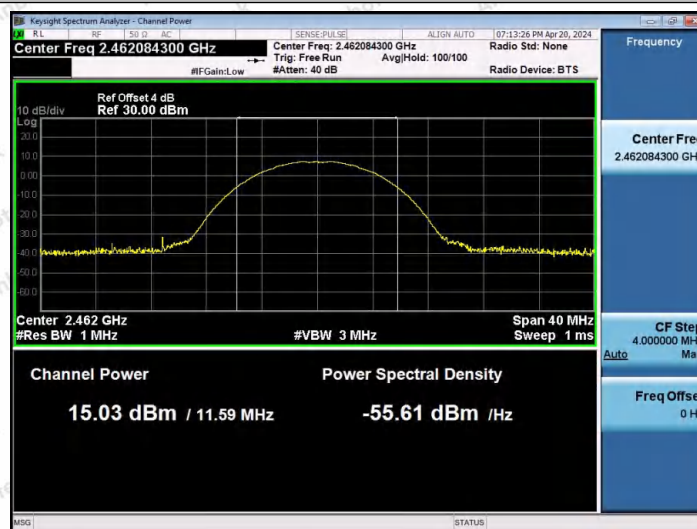




11B-Ant2-2437-PASS



11B-Ant1-2462-PASS



11B-Ant2-2462-PASS

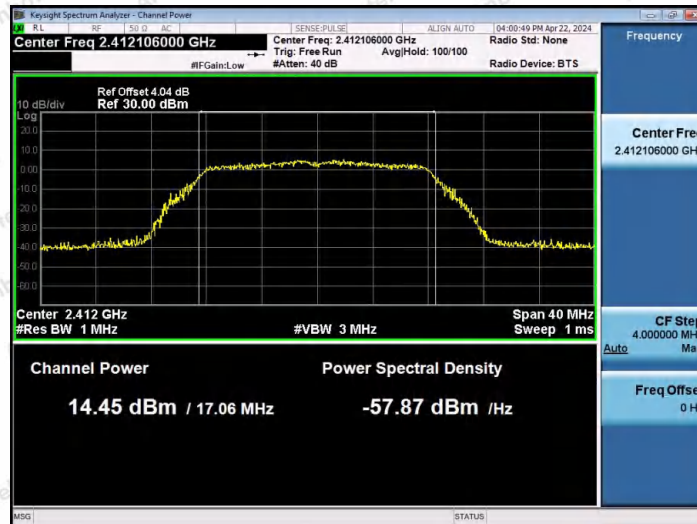
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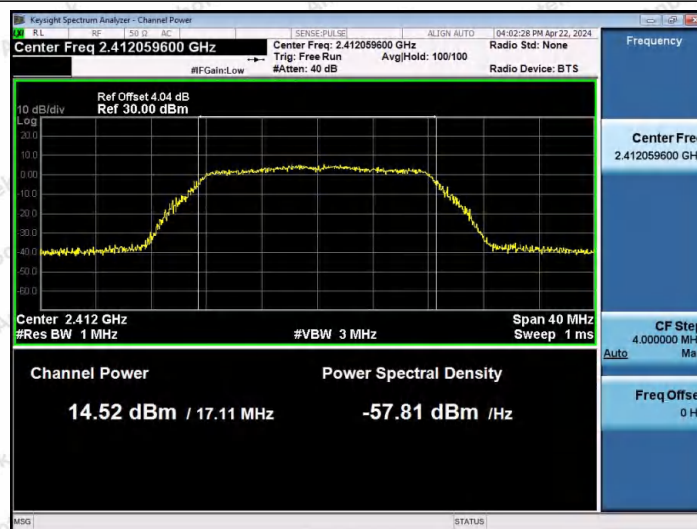


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11G-Ant1-2412-PASS



11G-Ant2-2412-PASS



11G-Ant1-2437-PASS

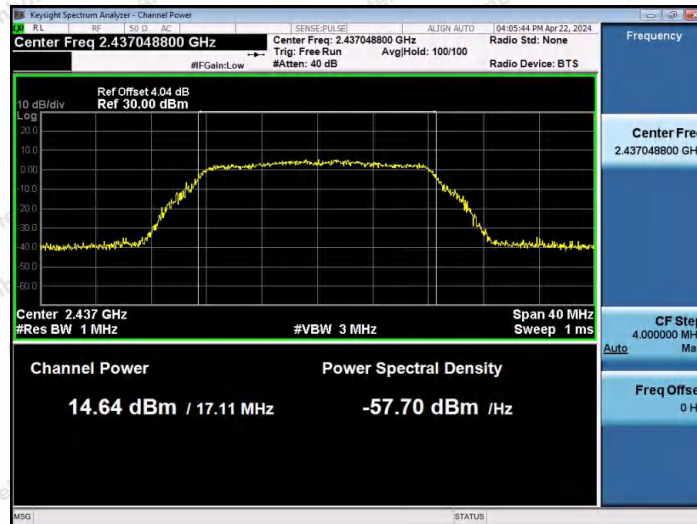
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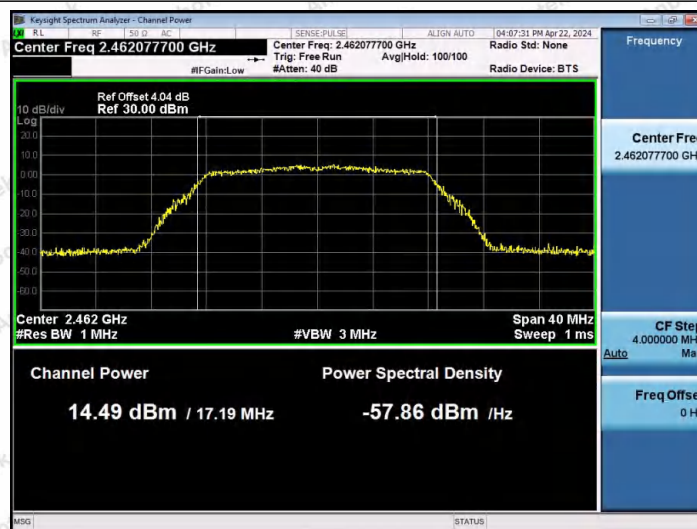


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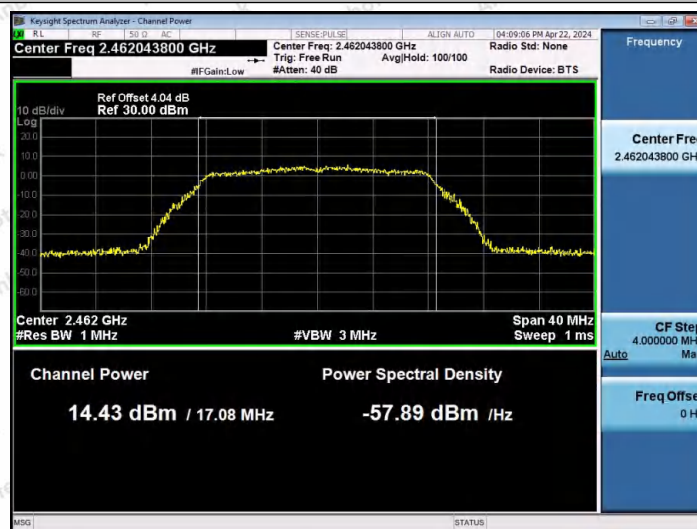




11G-Ant2-2437-PASS



11G-Ant1-2462-PASS



11G-Ant2-2462-PASS

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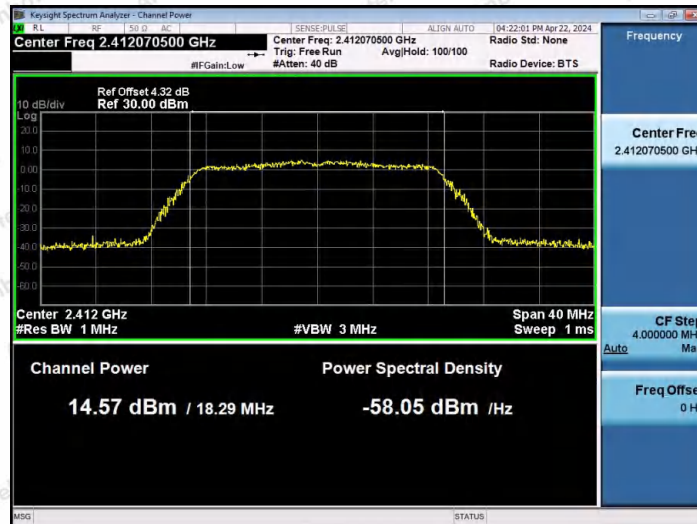


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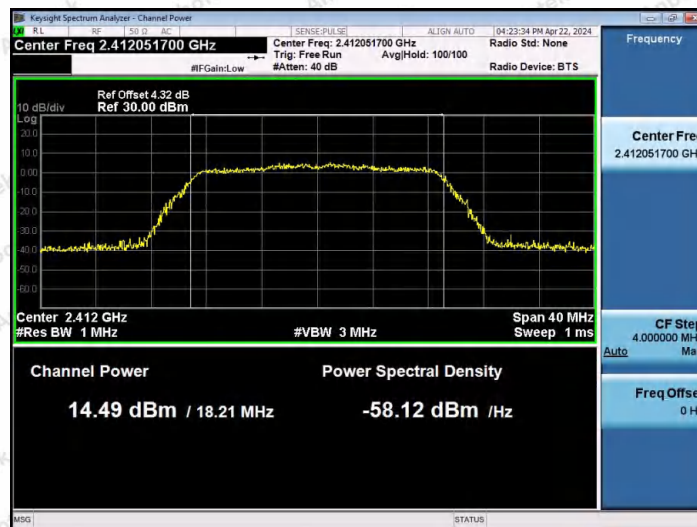
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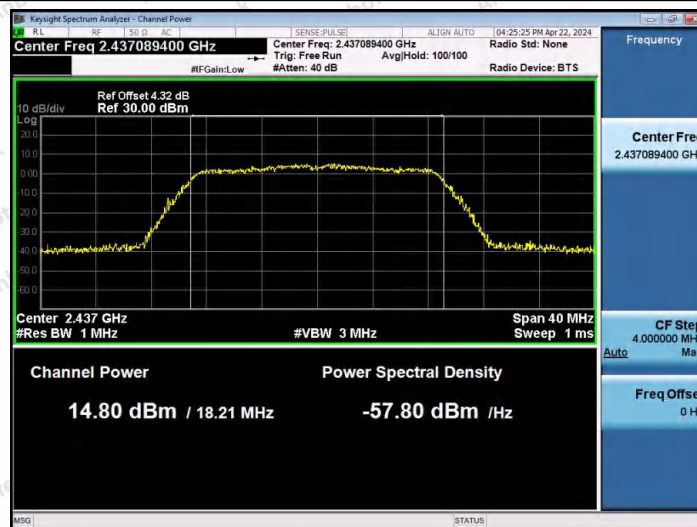




11N20MIMO-Ant1-2412-PASS



11N20MIMO-Ant2-2412-PASS



11N20MIMO-Ant1-2437-PASS

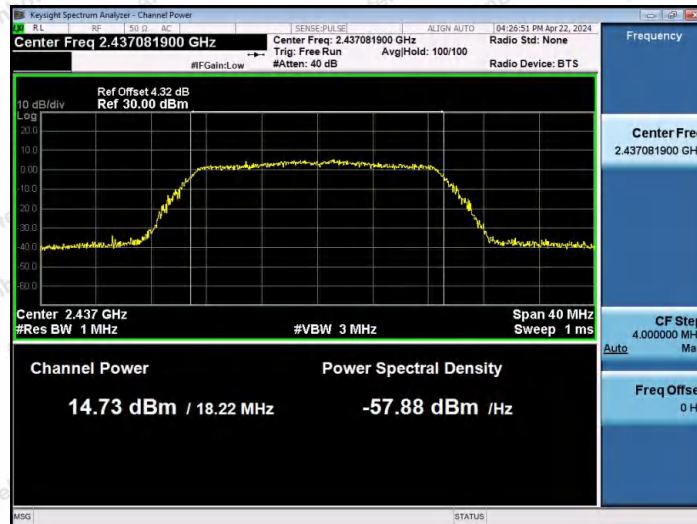
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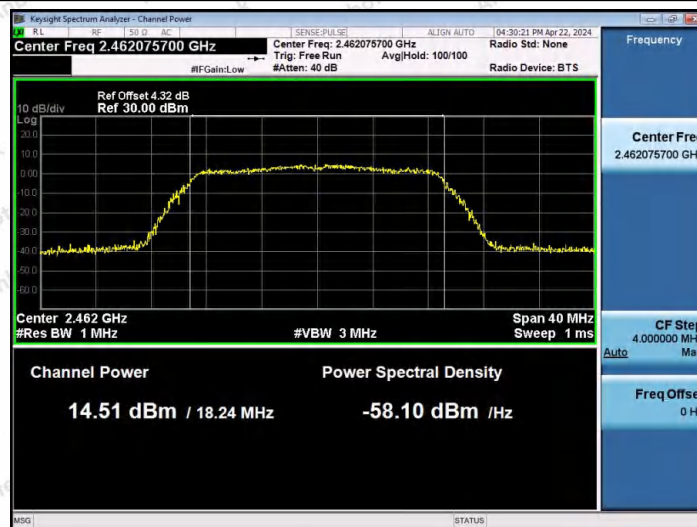




11N20MIMO-Ant2-2437-PASS



11N20MIMO-Ant1-2462-PASS



11N20MIMO-Ant2-2462-PASS

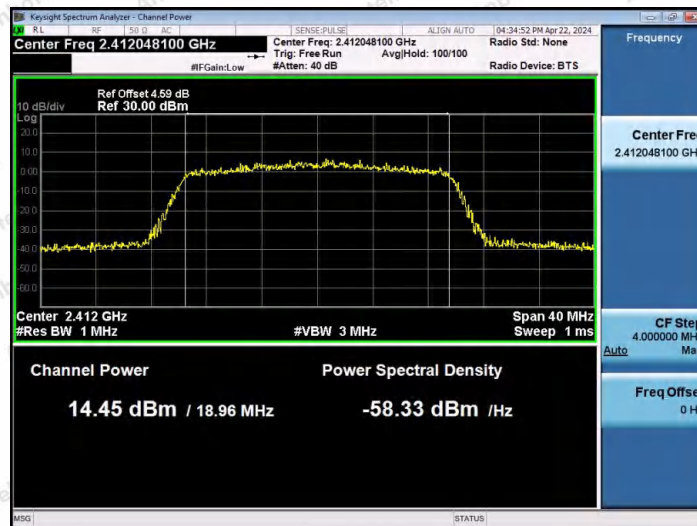
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

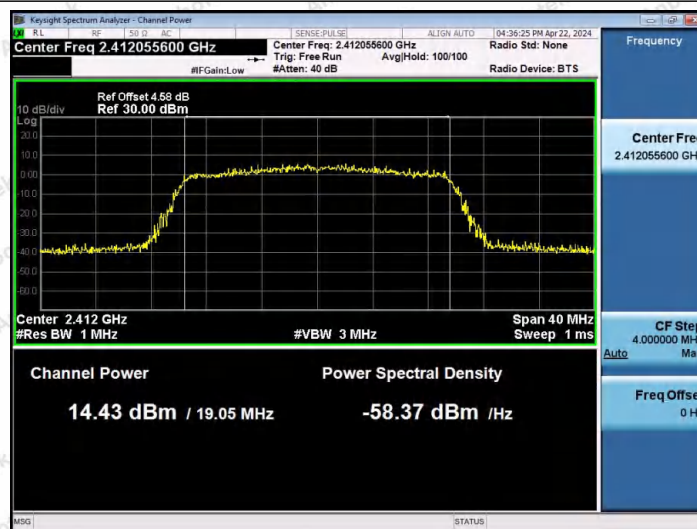


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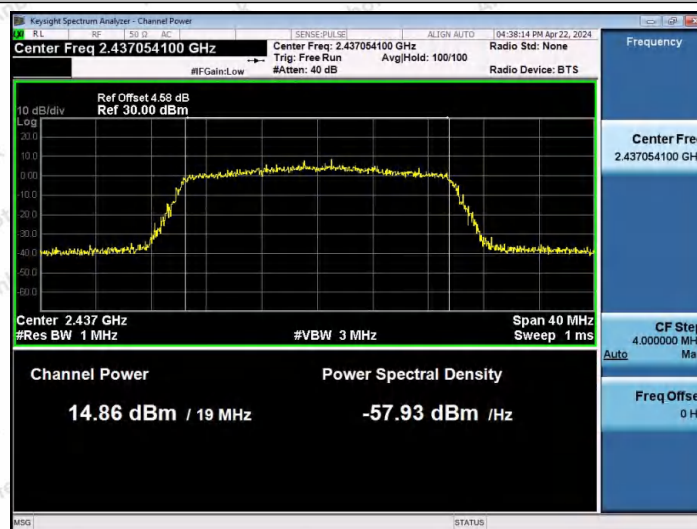




11AX20MIMO-Ant1-2412-PASS



11AX20MIMO-Ant2-2412-PASS



11AX20MIMO-Ant1-2437-PASS

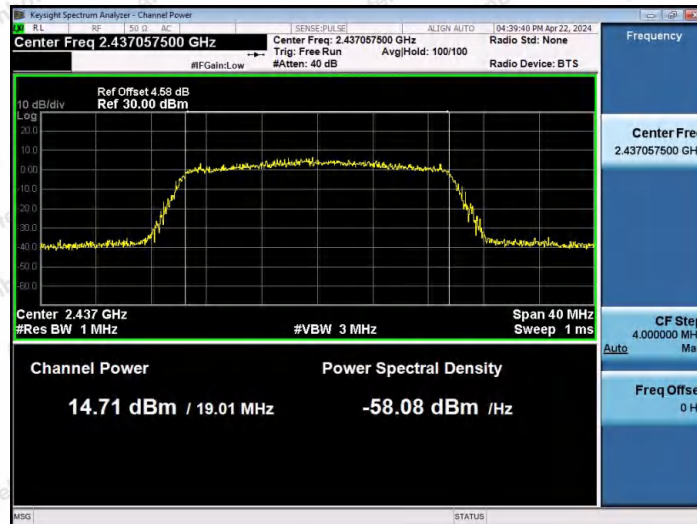
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

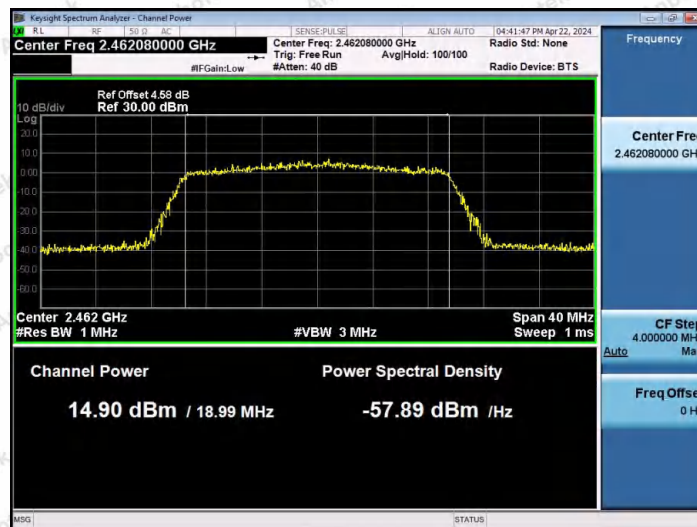


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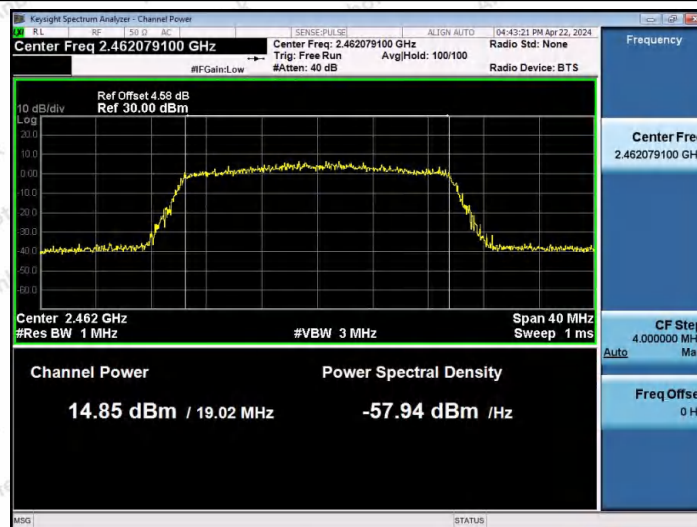




11AX20MIMO-Ant2-2437-PASS



11AX20MIMO-Ant1-2462-PASS



11AX20MIMO-Ant2-2462-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	-8.07	-18.07	≤8.00	PASS
11B	Ant2	2412	-7.71	-17.71	≤8.00	PASS
11B	Ant1	2437	-8.06	-18.06	≤8.00	PASS
11B	Ant2	2437	-8.13	-18.13	≤8.00	PASS
11B	Ant1	2462	-7.63	-17.63	≤8.00	PASS
11B	Ant2	2462	-7.13	-17.13	≤8.00	PASS
11G	Ant1	2412	-12.96	-22.96	≤8.00	PASS
11G	Ant2	2412	-12.89	-22.89	≤8.00	PASS
11G	Ant1	2437	-12.85	-22.85	≤8.00	PASS
11G	Ant2	2437	-12.43	-22.43	≤8.00	PASS
11G	Ant1	2462	-12.45	-22.45	≤8.00	PASS
11G	Ant2	2462	-13.11	-23.11	≤8.00	PASS
11N20MI MO	Ant1	2412	-13.93	-23.93	≤8.00	PASS
11N20MI MO	Ant2	2412	-13.74	-23.74	≤8.00	PASS
11N20MI MO	total	2412	-10.82	-20.82	≤8.00	PASS
11N20MI MO	Ant1	2437	-13.18	-23.18	≤8.00	PASS
11N20MI MO	Ant2	2437	-12.66	-22.66	≤8.00	PASS
11N20MI MO	total	2437	-9.90	-19.90	≤8.00	PASS
11N20MI MO	Ant1	2462	-12.99	-22.99	≤8.00	PASS
11N20MI MO	Ant2	2462	-13.39	-23.39	≤8.00	PASS
11N20MI MO	total	2462	-10.18	-20.18	≤8.00	PASS
11AX20M IMO	Ant1	2412	-15.94	-25.94	≤8.00	PASS
11AX20M IMO	Ant2	2412	-15.13	-25.13	≤8.00	PASS
11AX20M IMO	total	2412	-12.51	-22.51	≤8.00	PASS
11AX20M	Ant1	2437	-15.68	-25.68	≤8.00	PASS

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IMO						
11AX20M IMO	Ant2	2437	-15.34	-25.34	≤8.00	PASS
11AX20M IMO	total	2437	-12.50	-22.50	≤8.00	PASS
11AX20M IMO	Ant1	2462	-15.22	-25.22	≤8.00	PASS
11AX20M IMO	Ant2	2462	-15.50	-25.50	≤8.00	PASS
11AX20M IMO	total	2462	-12.35	-22.35	≤8.00	PASS

Note:

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

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Test Graphs



11B-Ant1-2412-PASS



11B-Ant2-2412-PASS



11B-Ant1-2437-PASS

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11B-Ant2-2437-PASS



11B-Ant1-2462-PASS



11B-Ant2-2462-PASS

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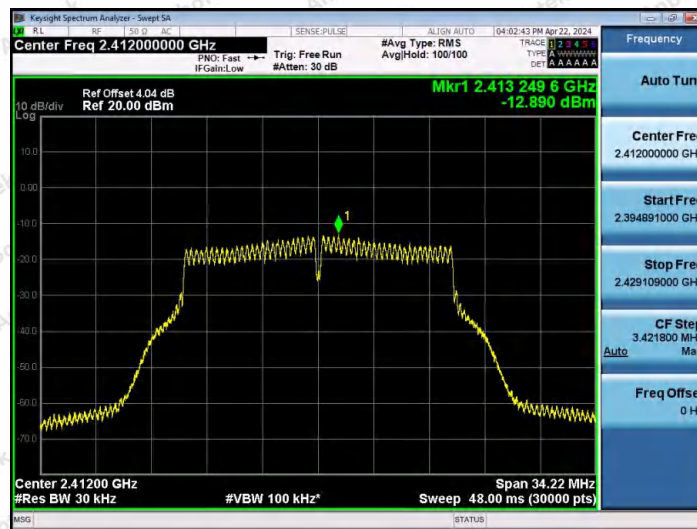


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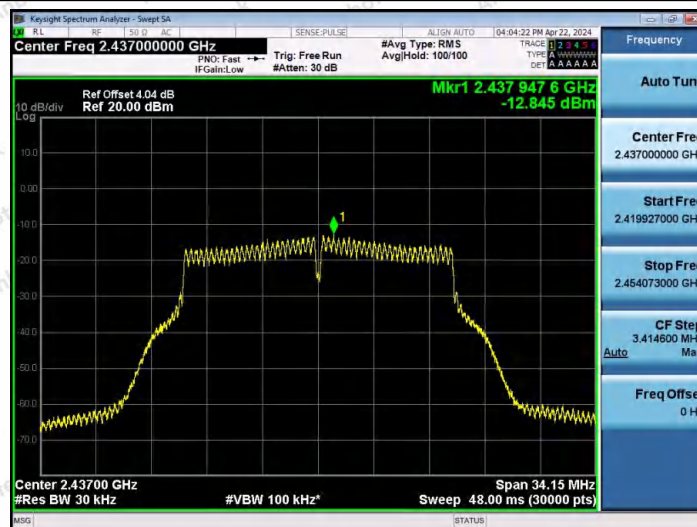




11G-Ant1-2412-PASS



11G-Ant2-2412-PASS



11G-Ant1-2437-PASS

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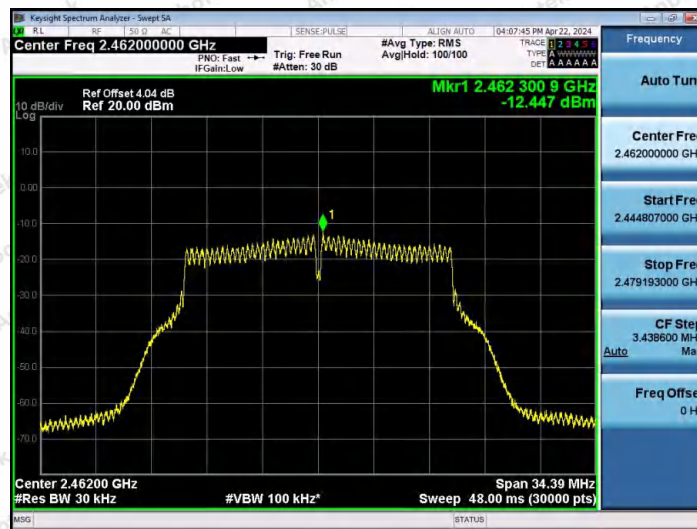


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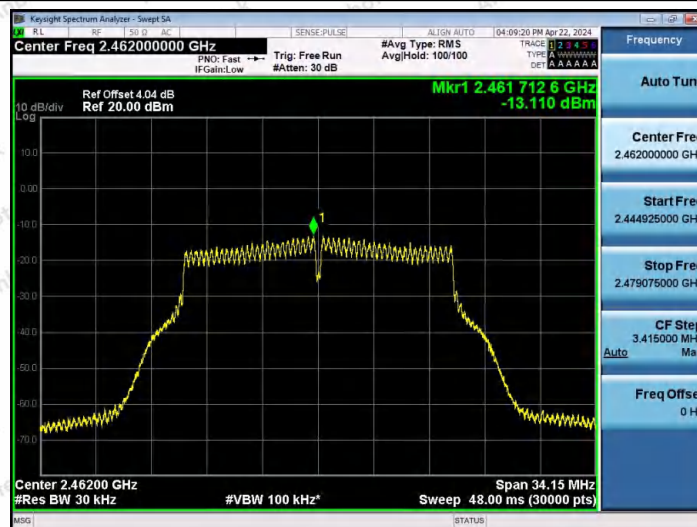




11G-Ant2-2437-PASS



11G-Ant1-2462-PASS



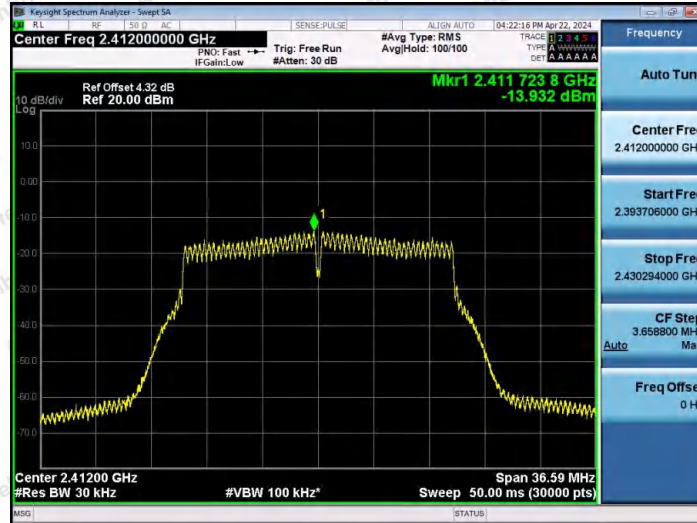
11G-Ant2-2462-PASS

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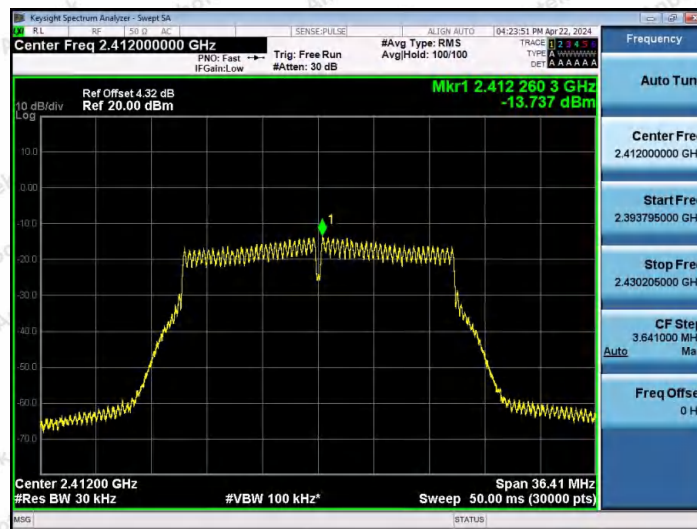
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11N20MIMO-Ant1-2412-PASS



11N20MIMO-Ant2-2412-PASS



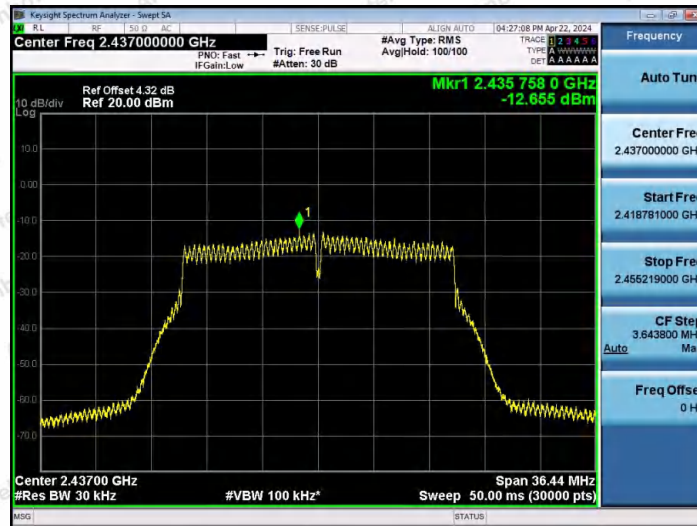
11N20MIMO-Ant1-2437-PASS

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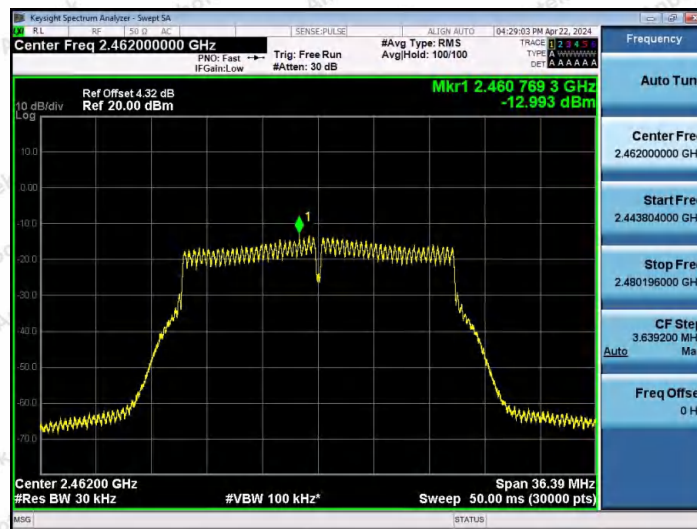
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11N20MIMO-Ant2-2437-PASS



11N20MIMO-Ant1-2462-PASS



11N20MIMO-Ant2-2462-PASS

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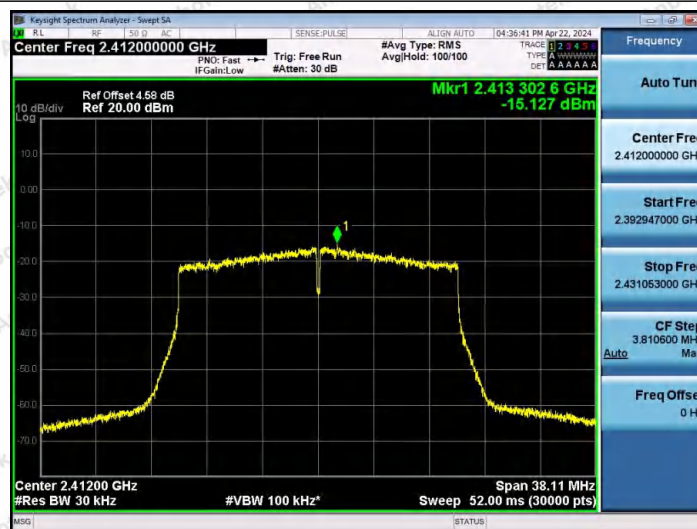
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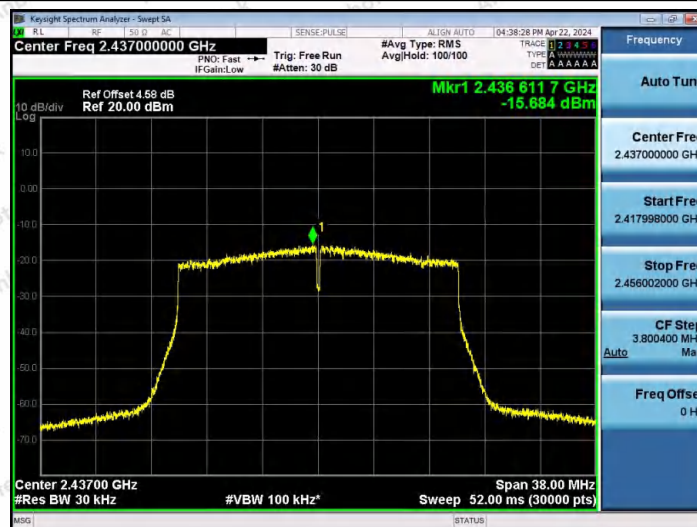




11AX20MIMO-Ant1-2412-PASS



11AX20MIMO-Ant2-2412-PASS



11AX20MIMO-Ant1-2437-PASS

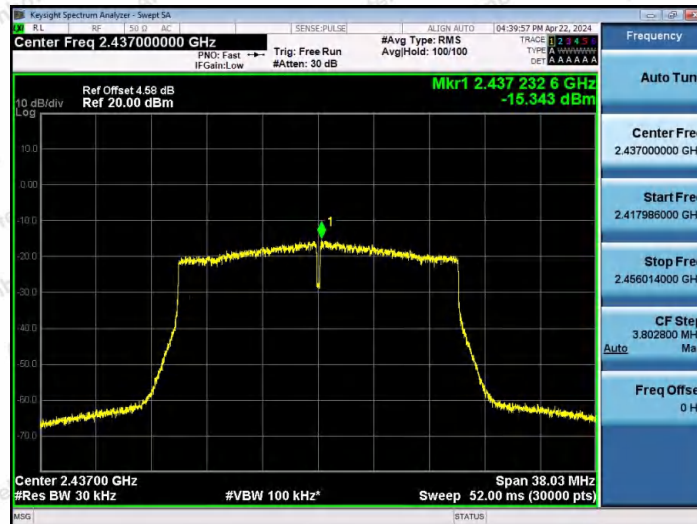
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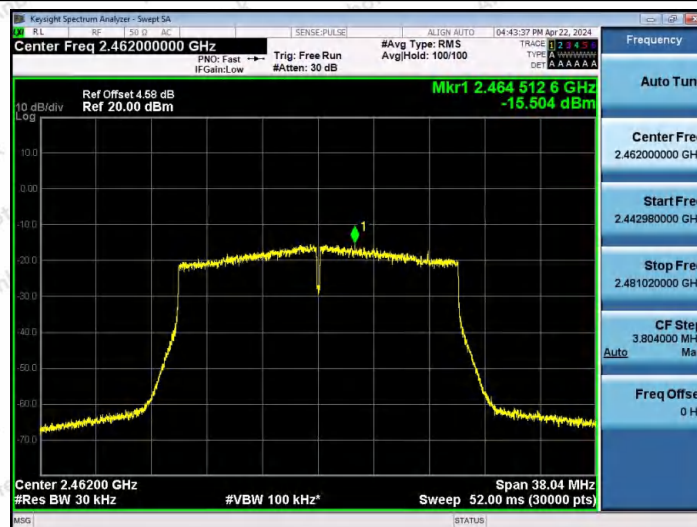




11AX20MIMO-Ant2-2437-PASS



11AX20MIMO-Ant1-2462-PASS



11AX20MIMO-Ant2-2462-PASS

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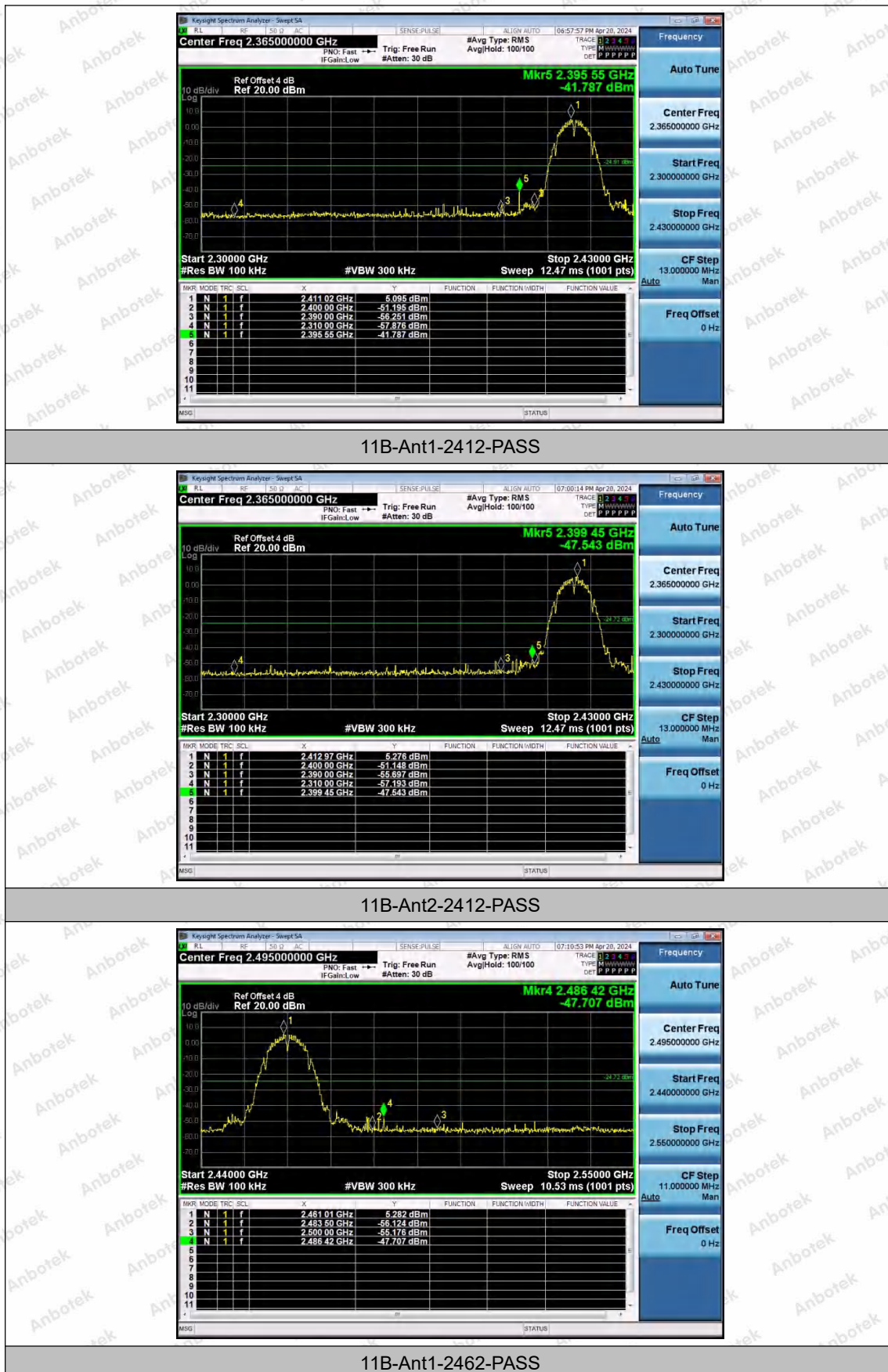
Appendix E: Conducted Band edge

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.10	-41.79	≤-24.91	PASS
11B	Ant2	Low	2412	5.28	-47.54	≤-24.72	PASS
11B	Ant1	High	2462	5.28	-47.71	≤-24.72	PASS
11B	Ant2	High	2462	5.07	-46.99	≤-24.93	PASS
11G	Ant1	Low	2412	-1.83	-44.7	≤-31.83	PASS
11G	Ant2	Low	2412	-1.64	-44.02	≤-31.64	PASS
11G	Ant1	High	2462	-2.90	-51.94	≤-32.9	PASS
11G	Ant2	High	2462	-2.69	-51.96	≤-32.69	PASS
11N20MIMO	Ant1	Low	2412	-1.90	-46.14	≤-31.9	PASS
11N20MIMO	Ant2	Low	2412	-1.41	-45.31	≤-31.41	PASS
11N20MIMO	Ant1	High	2462	-2.25	-51.37	≤-32.25	PASS
11N20MIMO	Ant2	High	2462	-2.75	-51.44	≤-32.75	PASS
11AX20MIMO	Ant1	Low	2412	-3.26	-45.86	≤-33.26	PASS
11AX20MIMO	Ant2	Low	2412	-3.66	-45.59	≤-33.66	PASS
11AX20MIMO	Ant1	High	2462	-2.76	-51.76	≤-32.76	PASS
11AX20MIMO	Ant2	High	2462	-2.58	-52.29	≤-32.58	PASS



Test Graphs



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