

Appendix Test Data

Report No.:	182512C400099102	Test Sample No.:	1-2-2
Start Test Date:	2024.5.28	Finish Test Date:	2024.6.3
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25.3℃	Relative Humidity:	48%
Pressure:	101kPa		

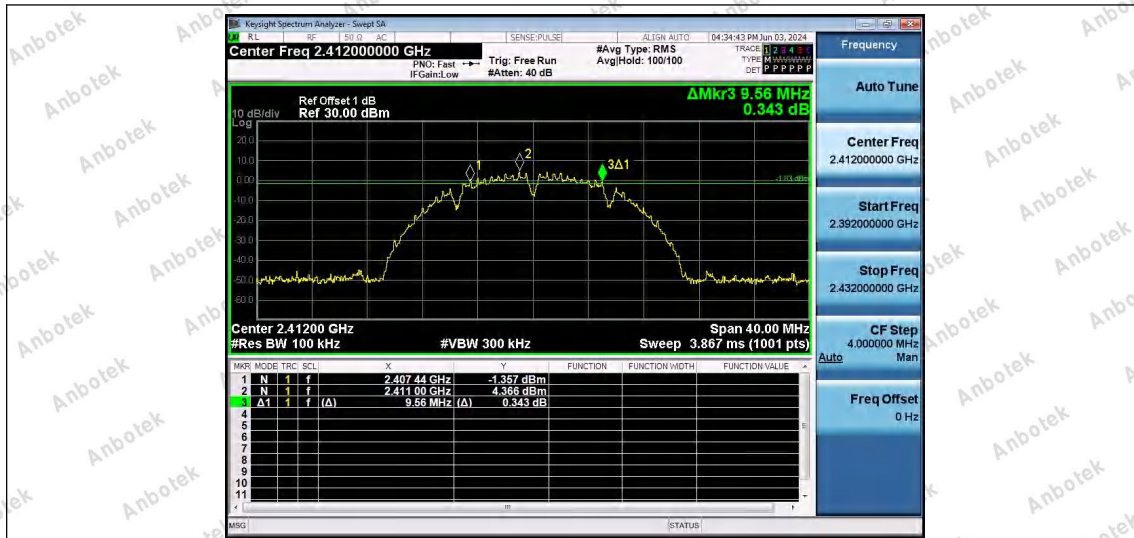
Appendix A: 6dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.560	2407.440	2417.000	0.5	PASS
11B	Ant1	2437	10.000	2432.000	2442.000	0.5	PASS
11B	Ant1	2462	10.040	2457.000	2467.040	0.5	PASS
11G	Ant1	2412	16.400	2403.800	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	17.640	2403.200	2420.840	0.5	PASS
11N20SISO	Ant1	2437	17.600	2428.200	2445.800	0.5	PASS
11N20SISO	Ant1	2462	17.560	2453.240	2470.800	0.5	PASS



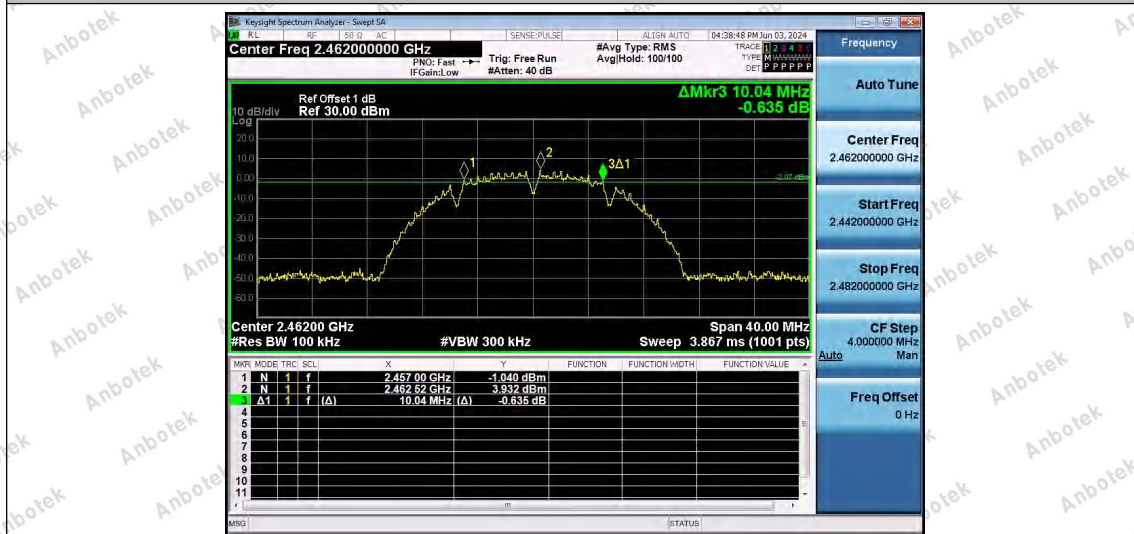
Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

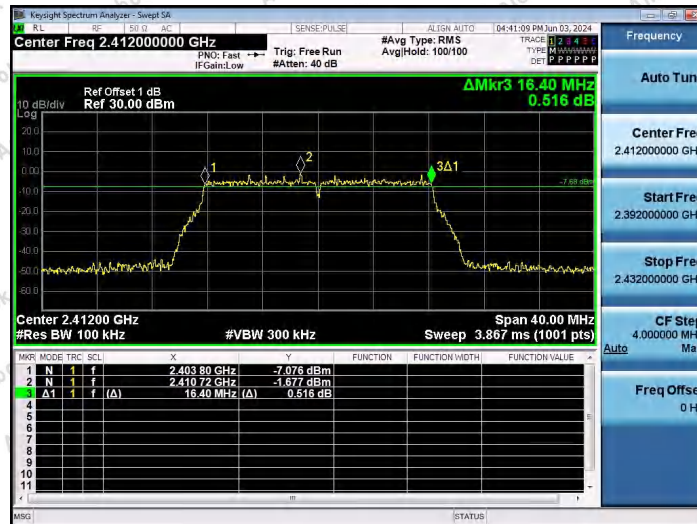
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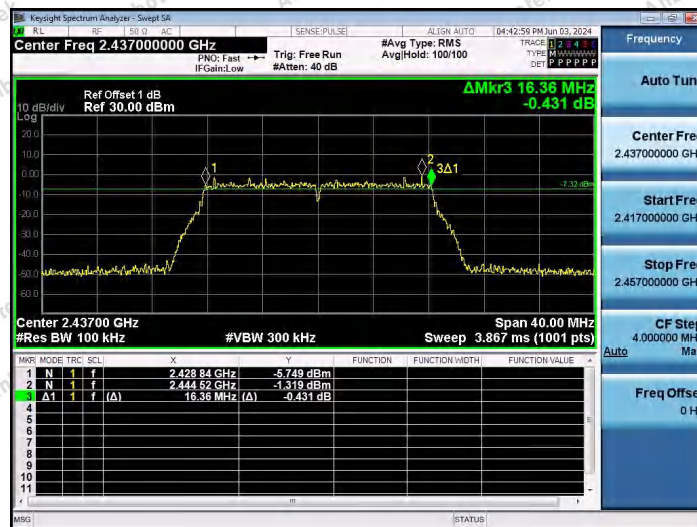


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11G-Ant1-2412-PASS

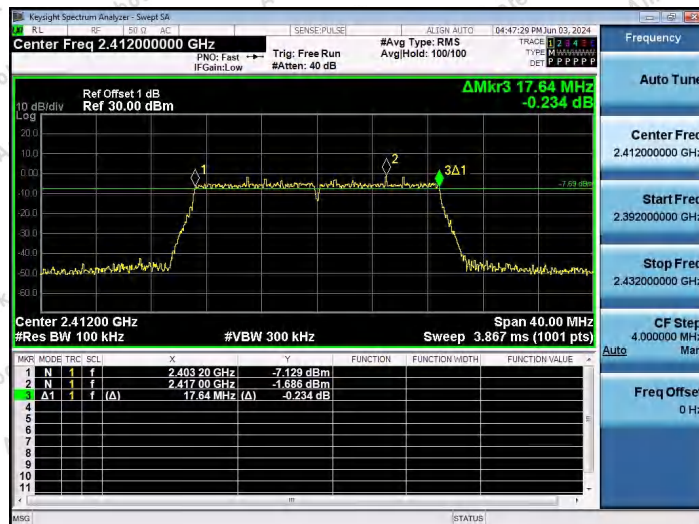


11G-Ant1-2437-PASS

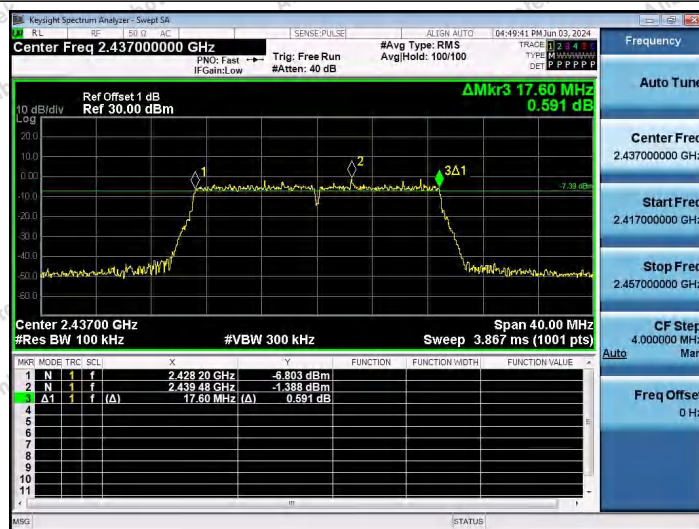


11G-Ant1-2462-PASS

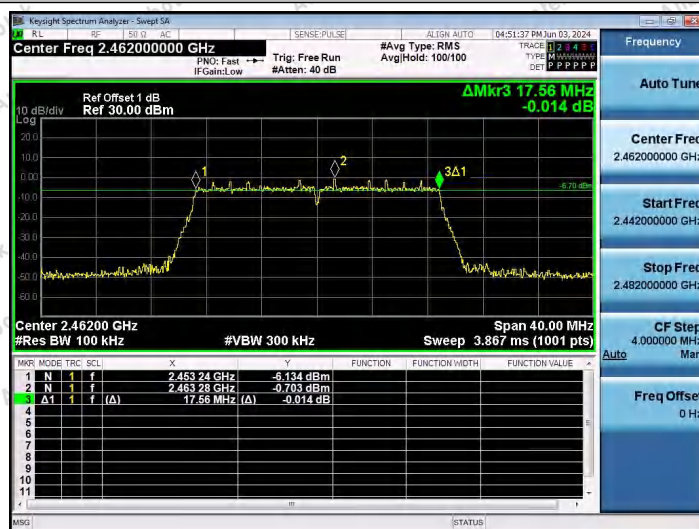




11N20SISO-Ant1-2412-PASS



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	14.273	2404.9164	2419.1894	---	---
11B	Ant1	2437	14.262	2429.9117	2444.1737	---	---
11B	Ant1	2462	14.255	2454.9071	2469.1621	---	---
11G	Ant1	2412	17.042	2403.5273	2420.5693	---	---
11G	Ant1	2437	17.110	2428.5116	2445.6216	---	---
11G	Ant1	2462	17.071	2453.4980	2470.5690	---	---
11N20SISO	Ant1	2412	17.917	2403.1021	2421.0191	---	---
11N20SISO	Ant1	2437	17.940	2428.0850	2446.0250	---	---
11N20SISO	Ant1	2462	17.949	2453.0642	2471.0132	---	---



Test Graphs



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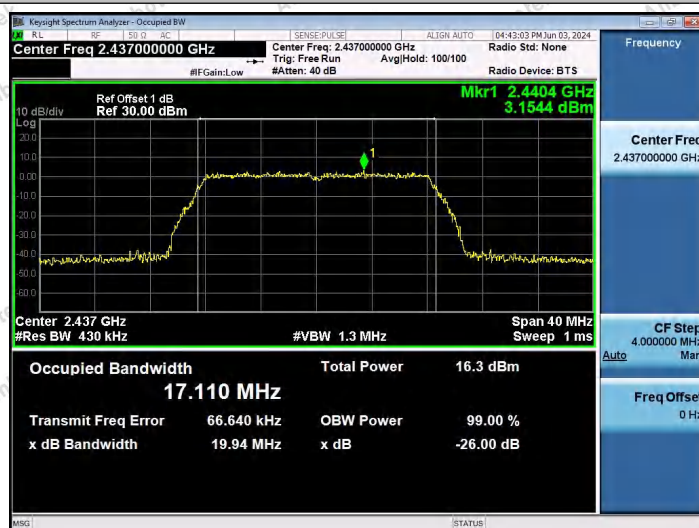


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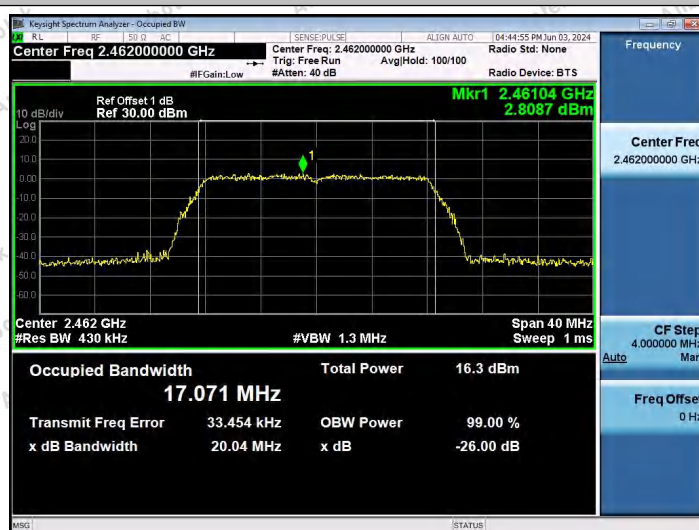




11G-Ant1-2412



11G-Ant1-2437



11G-Ant1-2462

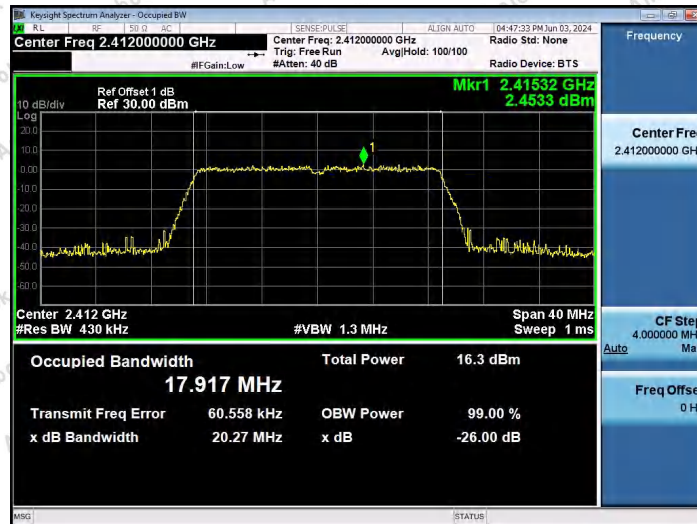
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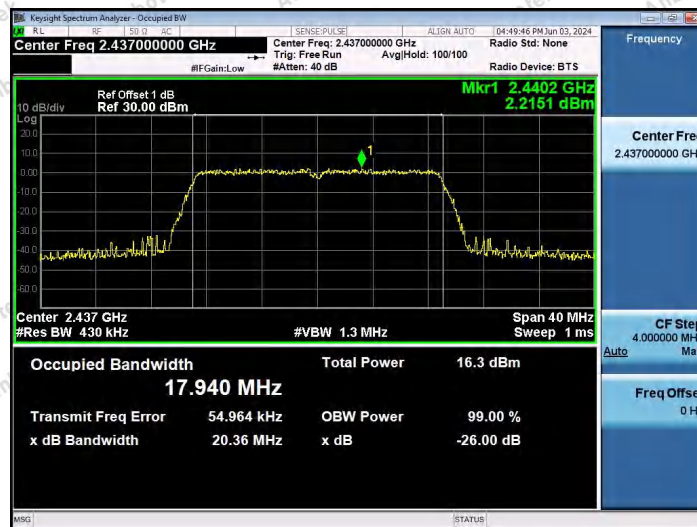


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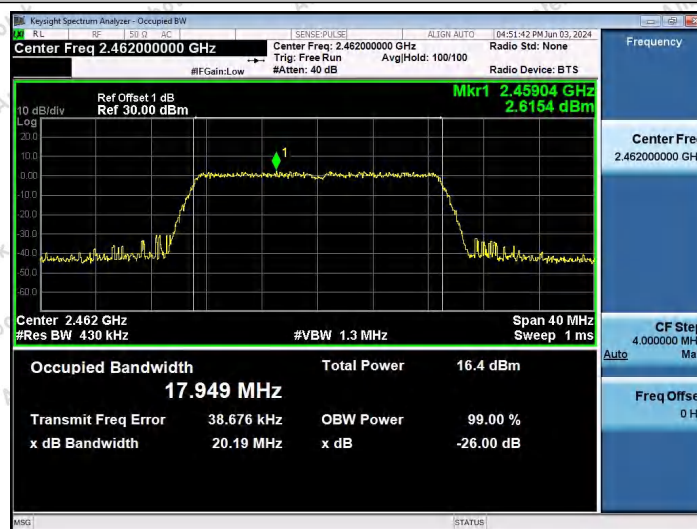




11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



11N20SISO-Ant1-2462

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Appendix C: Maximum conducted output power

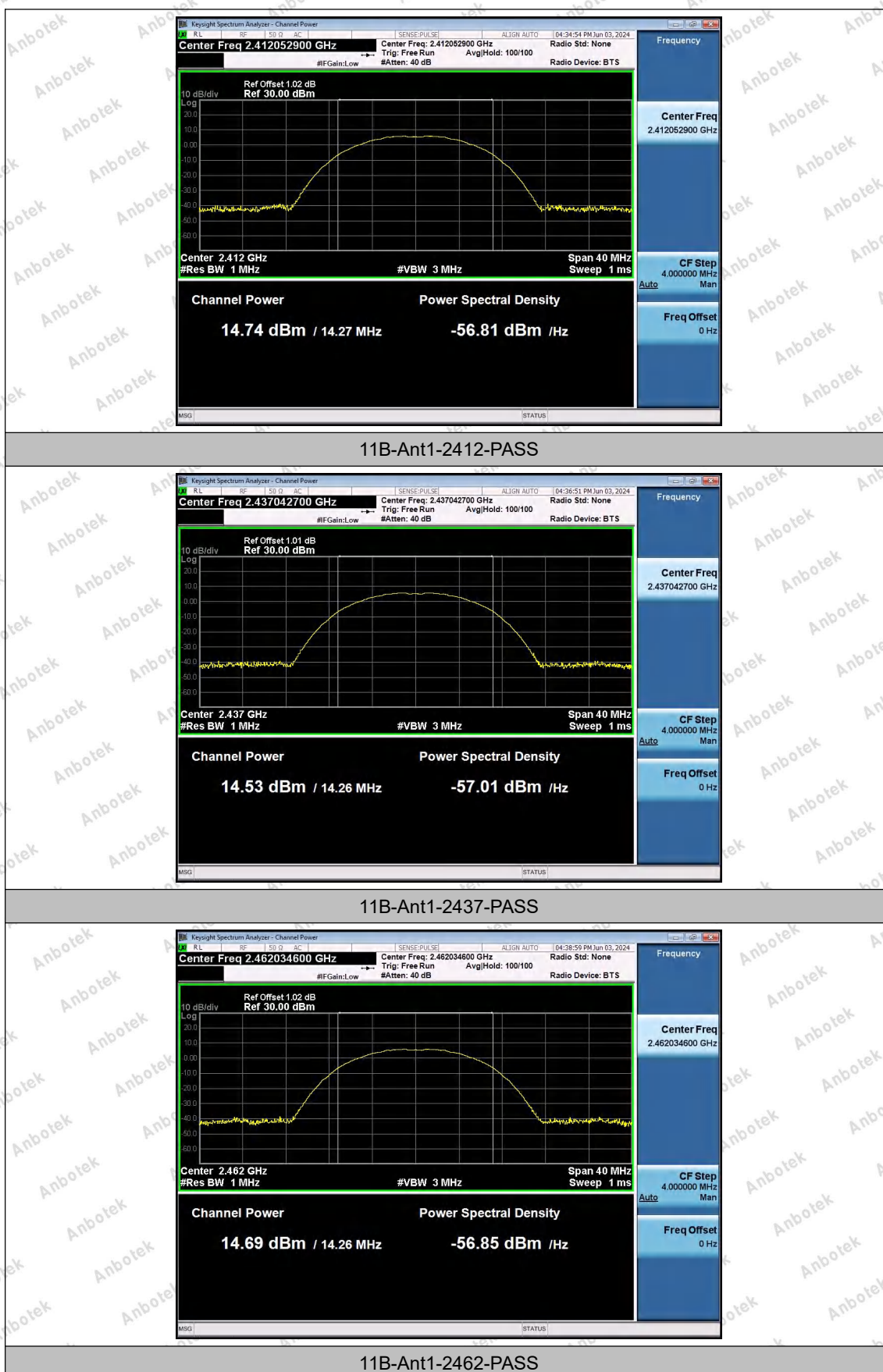
Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.72	99.64	0.02	14.74	≤30.00	PASS
11B	Ant1	2437	14.52	99.76	0.01	14.53	≤30.00	PASS
11B	Ant1	2462	14.67	99.64	0.02	14.69	≤30.00	PASS
11G	Ant1	2412	14.61	97.90	0.09	14.70	≤30.00	PASS
11G	Ant1	2437	14.75	97.90	0.09	14.84	≤30.00	PASS
11G	Ant1	2462	14.70	97.90	0.09	14.79	≤30.00	PASS
11N20SISO	Ant1	2412	14.82	97.74	0.10	14.92	≤30.00	PASS
11N20SISO	Ant1	2437	14.72	97.01	0.13	14.85	≤30.00	PASS
11N20SISO	Ant1	2462	14.87	96.99	0.13	15.00	≤30.00	PASS

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



Test Graphs Average



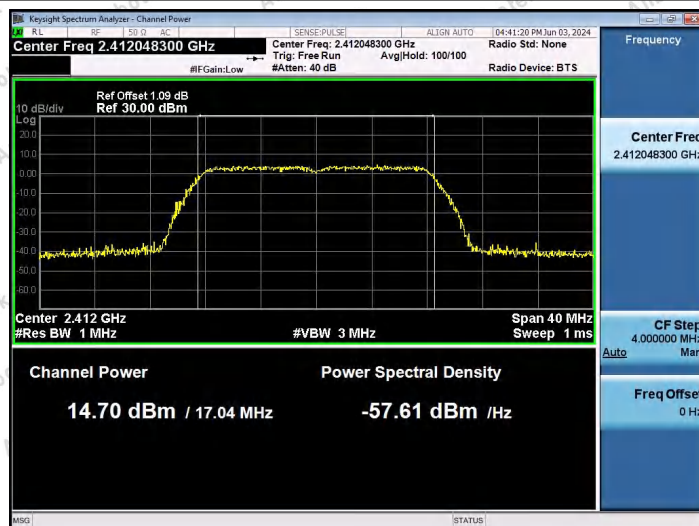
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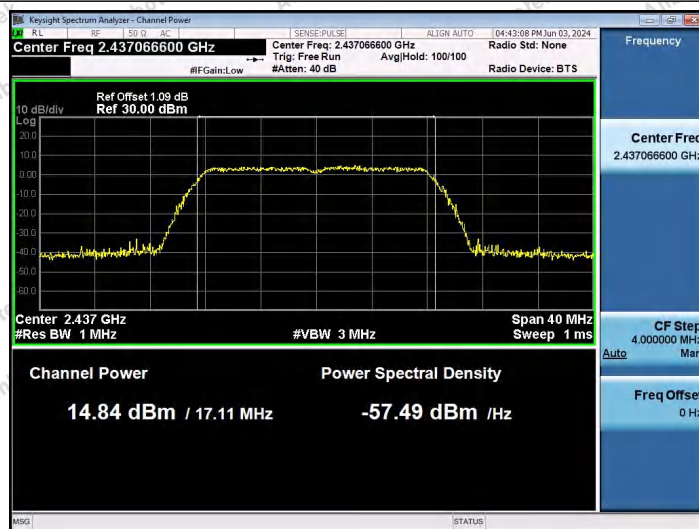


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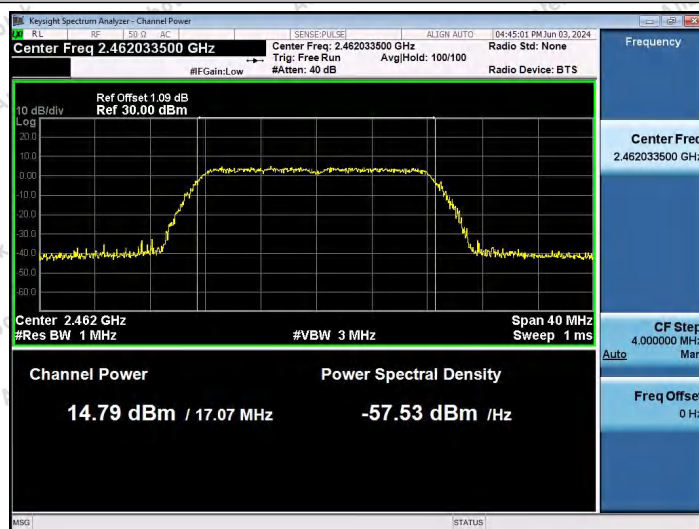




11G-Ant1-2412-PASS

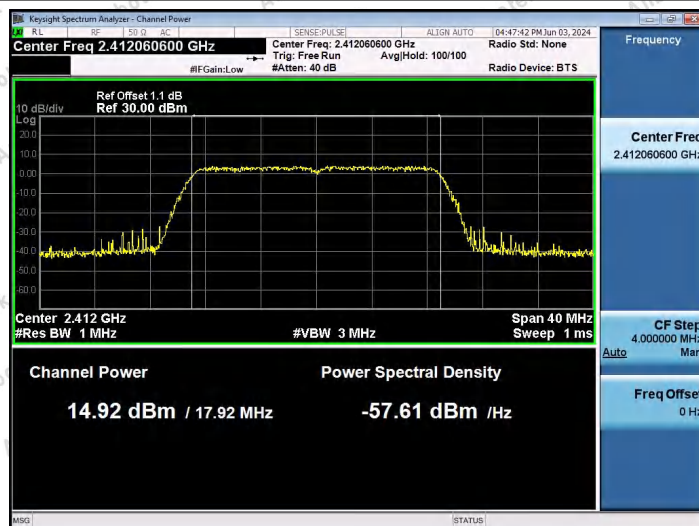


11G-Ant1-2437-PASS

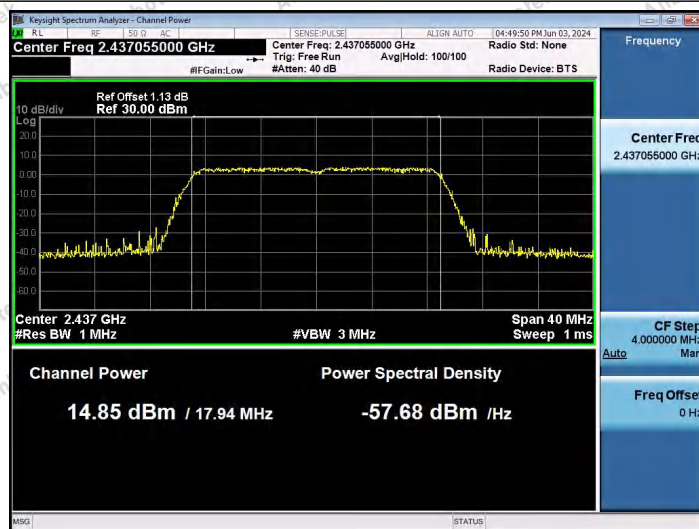


11G-Ant1-2462-PASS

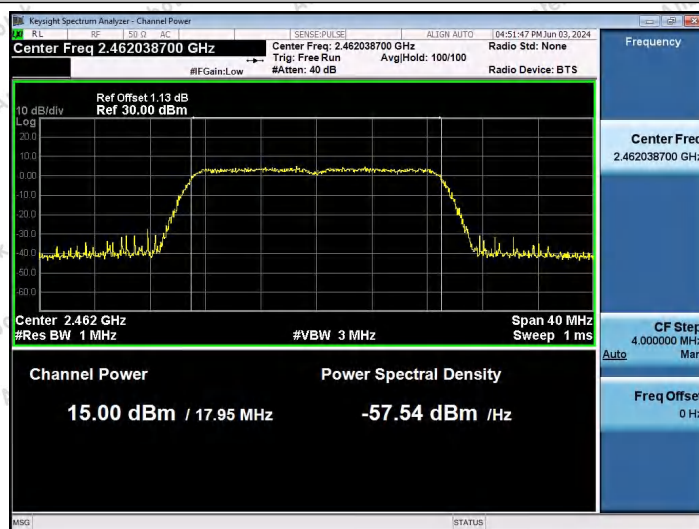




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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Appendix D: Maximum power spectral density

Test Result

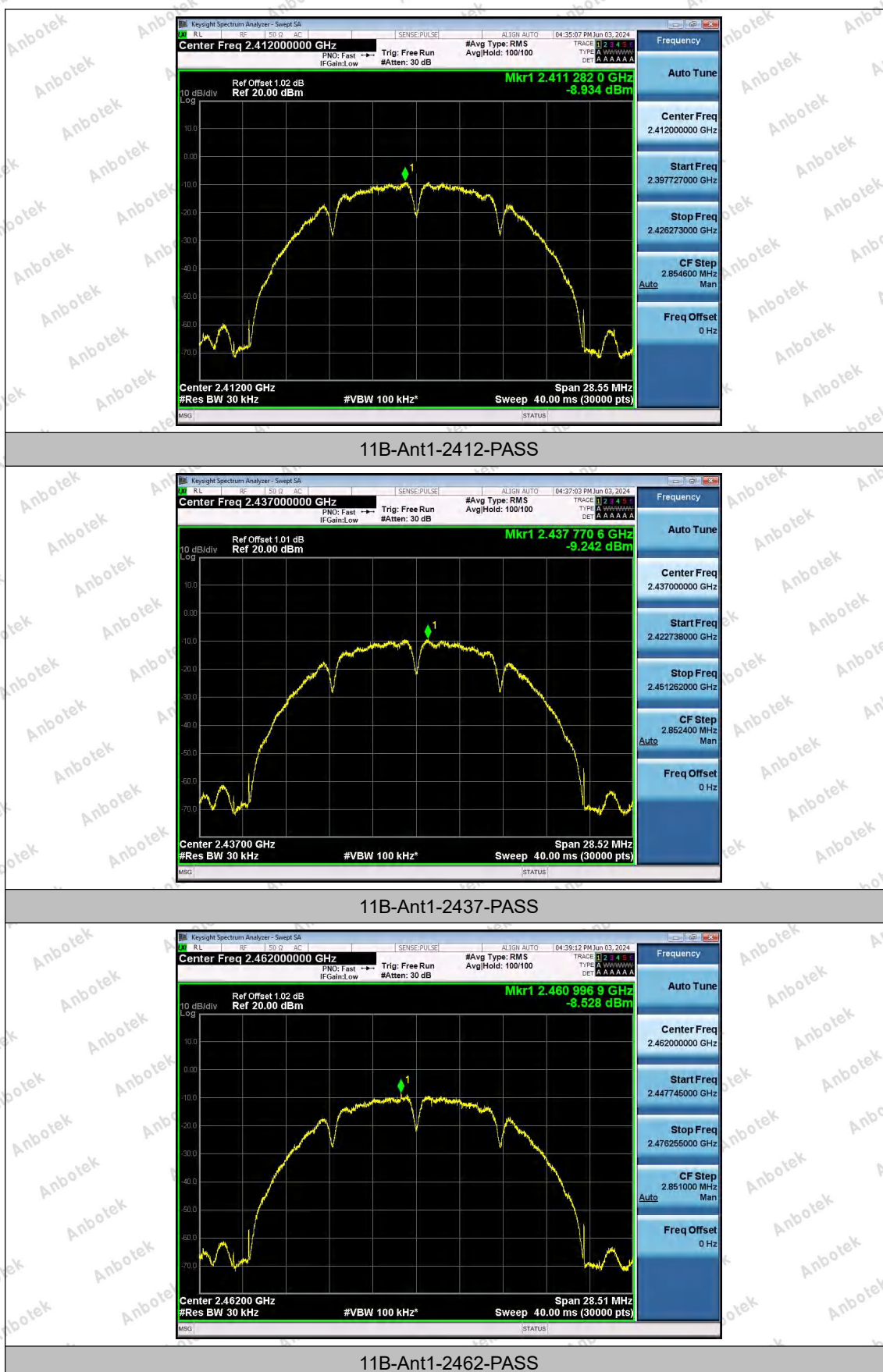
TestMode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-8.93	-18.93	≤8.00	PASS
11B	Ant1	2437	-9.24	-19.24	≤8.00	PASS
11B	Ant1	2462	-8.53	-18.53	≤8.00	PASS
11G	Ant1	2412	-14.13	-24.13	≤8.00	PASS
11G	Ant1	2437	-13.73	-23.73	≤8.00	PASS
11G	Ant1	2462	-13.97	-23.97	≤8.00	PASS
11N20SISO	Ant1	2412	-14.31	-24.31	≤8.00	PASS
11N20SISO	Ant1	2437	-14.27	-24.27	≤8.00	PASS
11N20SISO	Ant1	2462	-13.99	-23.99	≤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



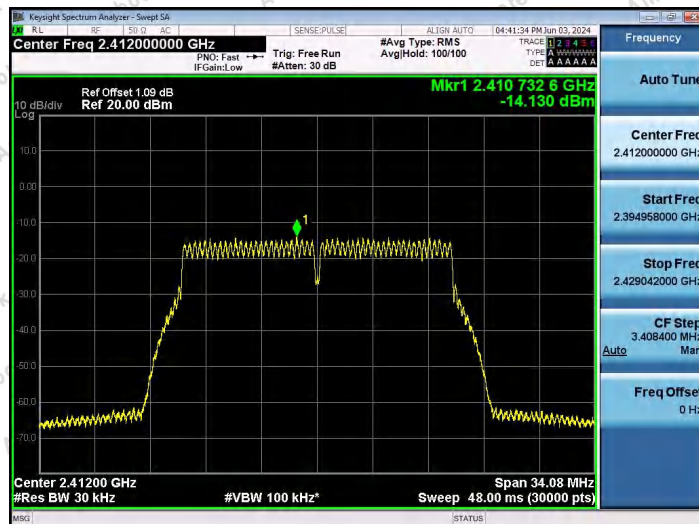
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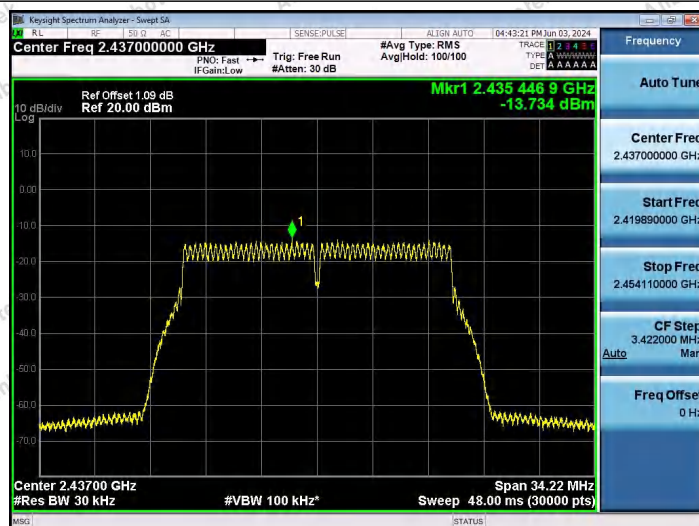


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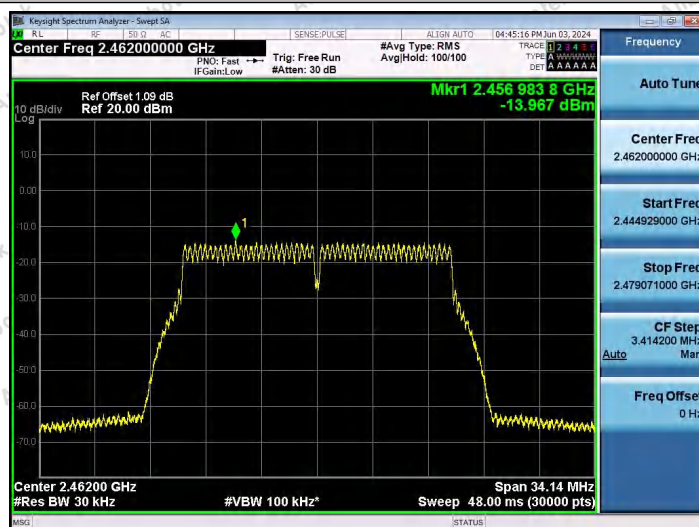




11G-Ant1-2412-PASS

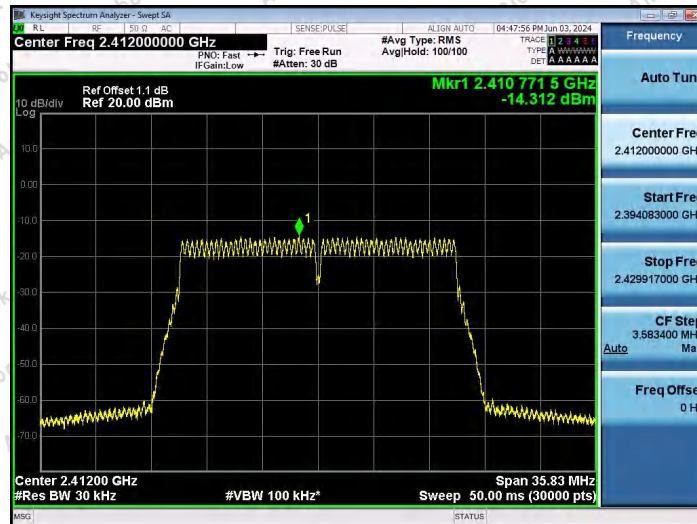


11G-Ant1-2437-PASS

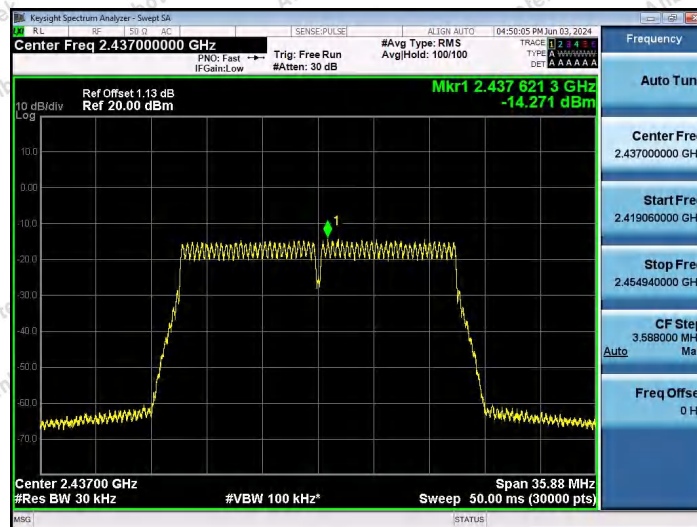


11G-Ant1-2462-PASS

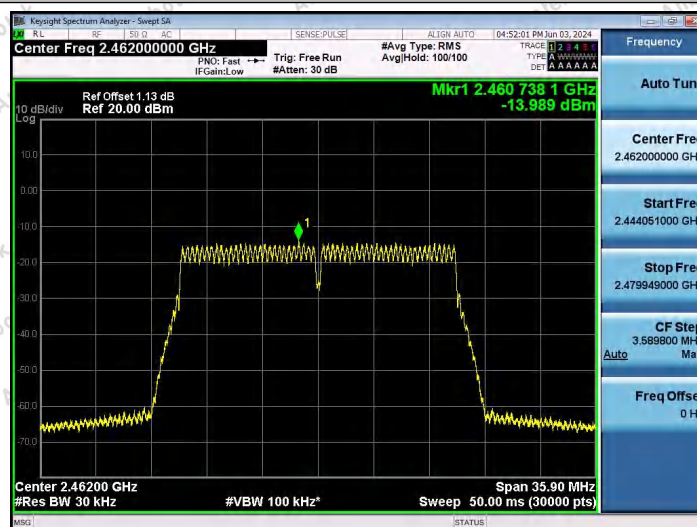




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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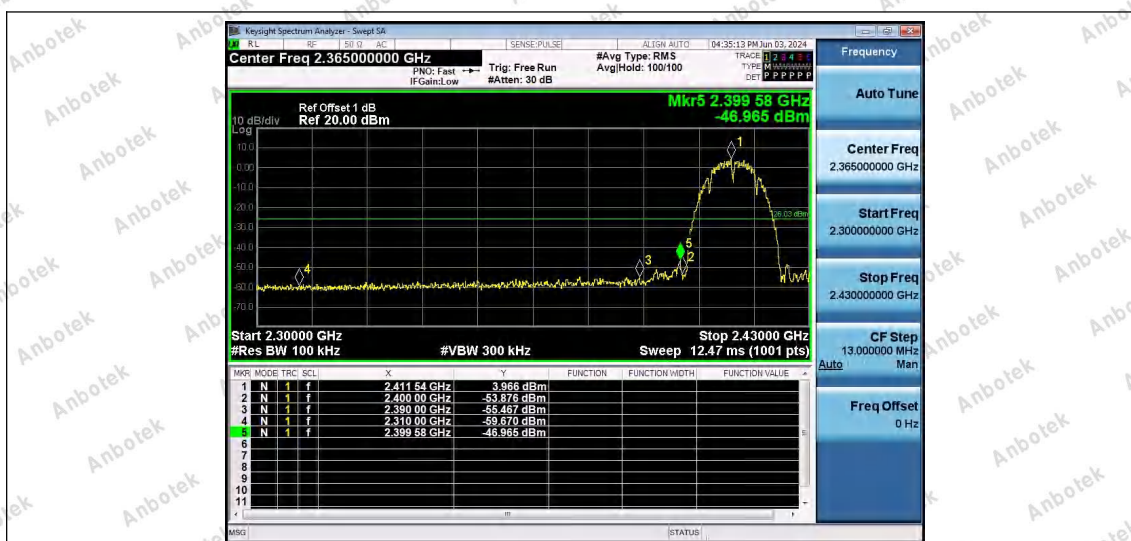
Appendix E: Conducted Band edge

Test Result

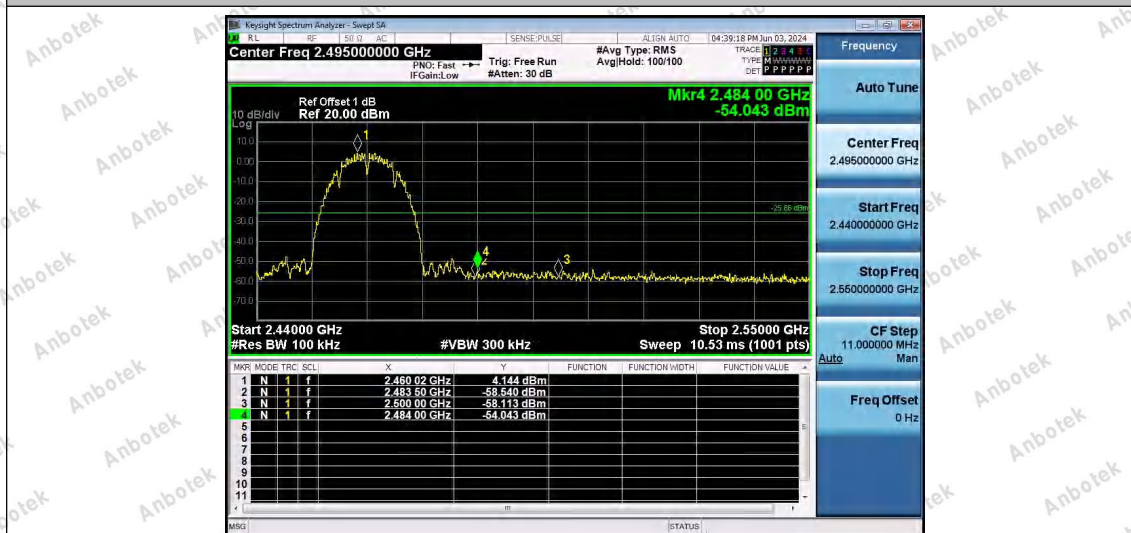
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.97	-46.97	≤-26.03	PASS
11B	Ant1	High	2462	4.14	-54.04	≤-25.86	PASS
11G	Ant1	Low	2412	-0.98	-45.39	≤-30.98	PASS
11G	Ant1	High	2462	-1.10	-51.96	≤-31.1	PASS
11N20SISO	Ant1	Low	2412	-1.33	-38.56	≤-31.33	PASS
11N20SISO	Ant1	High	2462	-0.67	-50.54	≤-30.67	PASS



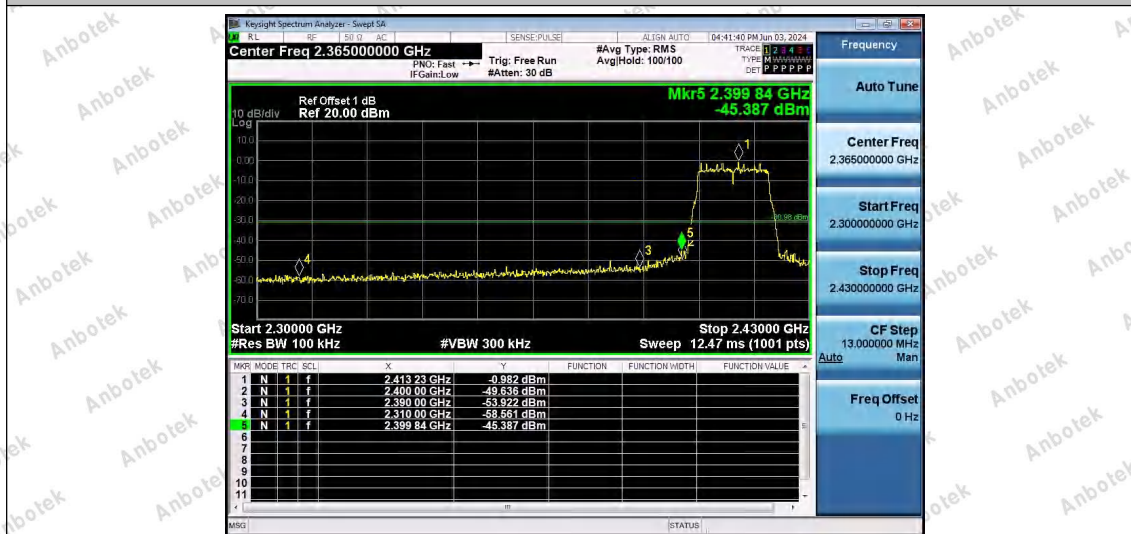
Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2462-PASS



11G-Ant1-2412-PASS

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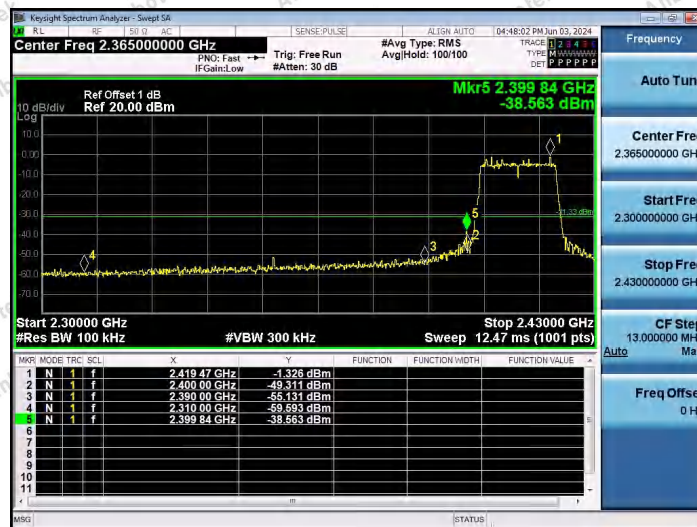


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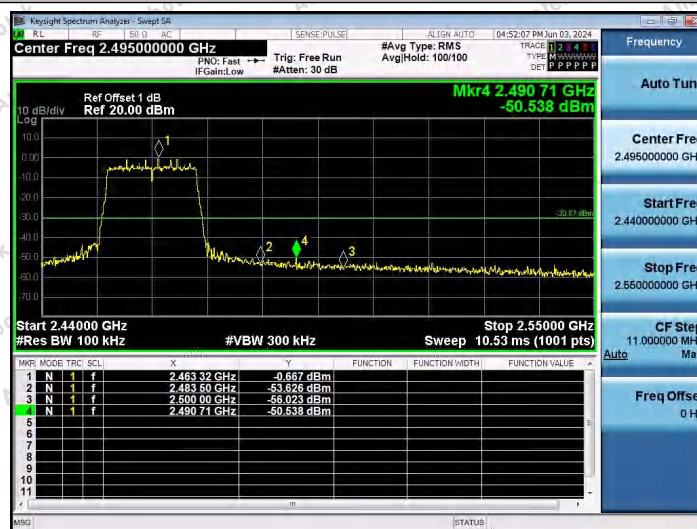




11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS

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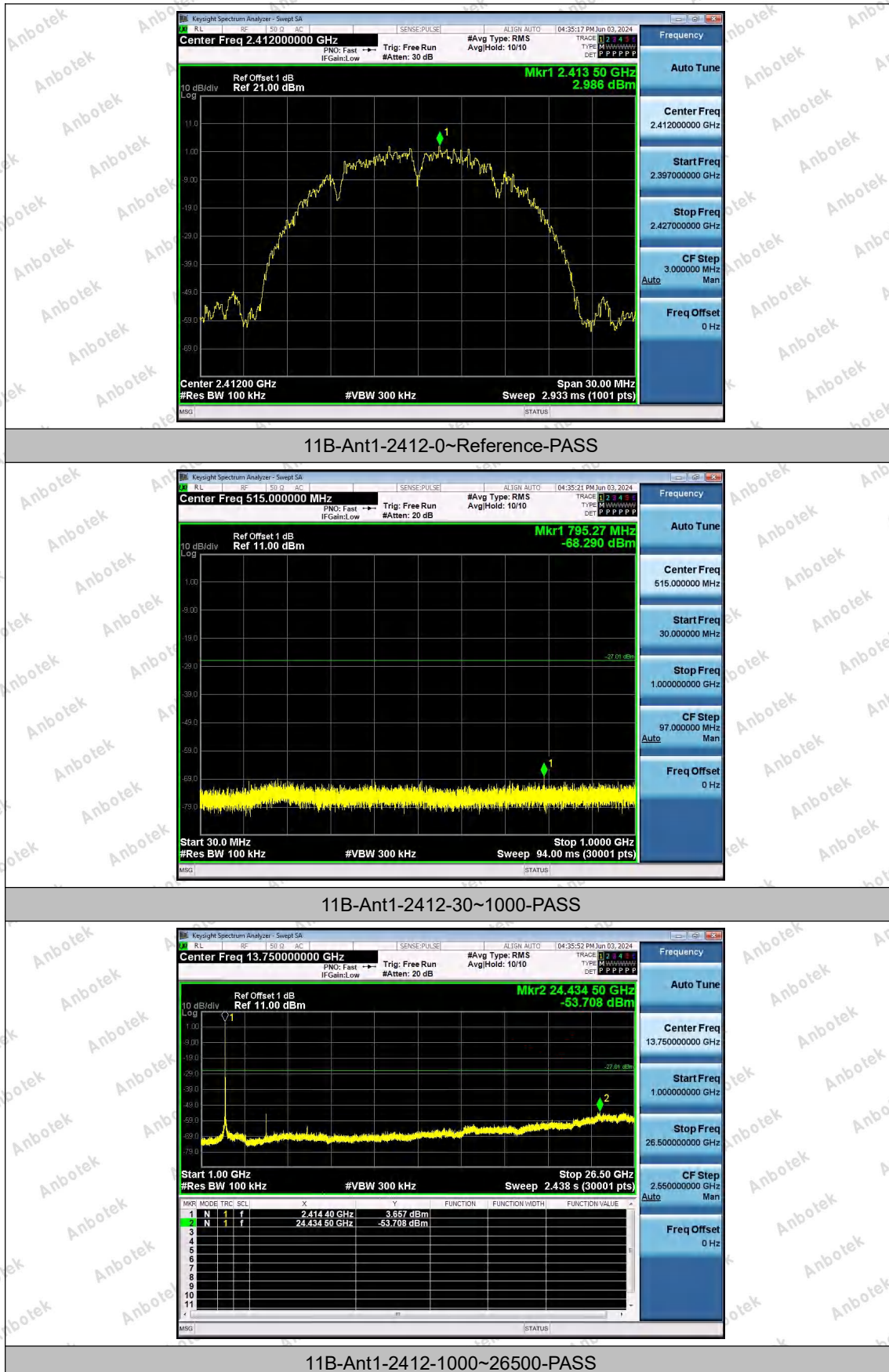
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	2.99	2.99	---	PASS
11B	Ant1	2412	30~1000	2.99	-68.29	≤-27.01	PASS
11B	Ant1	2412	1000~26500	2.99	-53.71	≤-27.01	PASS
11B	Ant1	2437	0~Reference	3.49	3.49	---	PASS
11B	Ant1	2437	30~1000	3.49	-68.48	≤-26.51	PASS
11B	Ant1	2437	1000~26500	3.49	-52.78	≤-26.51	PASS
11B	Ant1	2462	0~Reference	3.18	3.18	---	PASS
11B	Ant1	2462	30~1000	3.18	-68.45	≤-26.82	PASS
11B	Ant1	2462	1000~26500	3.18	-53.29	≤-26.82	PASS
11G	Ant1	2412	0~Reference	-1.33	-1.33	---	PASS
11G	Ant1	2412	30~1000	-1.33	-68.59	≤-31.33	PASS
11G	Ant1	2412	1000~26500	-1.33	-53.78	≤-31.33	PASS
11G	Ant1	2437	0~Reference	-3.56	-3.56	---	PASS
11G	Ant1	2437	30~1000	-3.56	-68.71	≤-33.56	PASS
11G	Ant1	2437	1000~26500	-3.56	-53.52	≤-33.56	PASS
11G	Ant1	2462	0~Reference	-1.84	-1.84	---	PASS
11G	Ant1	2462	30~1000	-1.84	-68.86	≤-31.84	PASS
11G	Ant1	2462	1000~26500	-1.84	-53.78	≤-31.84	PASS
11N20SISO	Ant1	2412	0~Reference	-1.85	-1.85	---	PASS
11N20SISO	Ant1	2412	30~1000	-1.85	-68.85	≤-31.85	PASS
11N20SISO	Ant1	2412	1000~26500	-1.85	-53.1	≤-31.85	PASS
11N20SISO	Ant1	2437	0~Reference	-4.65	-4.65	---	PASS
11N20SISO	Ant1	2437	30~1000	-4.65	-68.66	≤-34.65	PASS
11N20SISO	Ant1	2437	1000~26500	-4.65	-53.39	≤-34.65	PASS
11N20SISO	Ant1	2462	0~Reference	-1.91	-1.91	---	PASS
11N20SISO	Ant1	2462	30~1000	-1.91	-68.94	≤-31.91	PASS
11N20SISO	Ant1	2462	1000~26500	-1.91	-52.94	≤-31.91	PASS



Test Graphs



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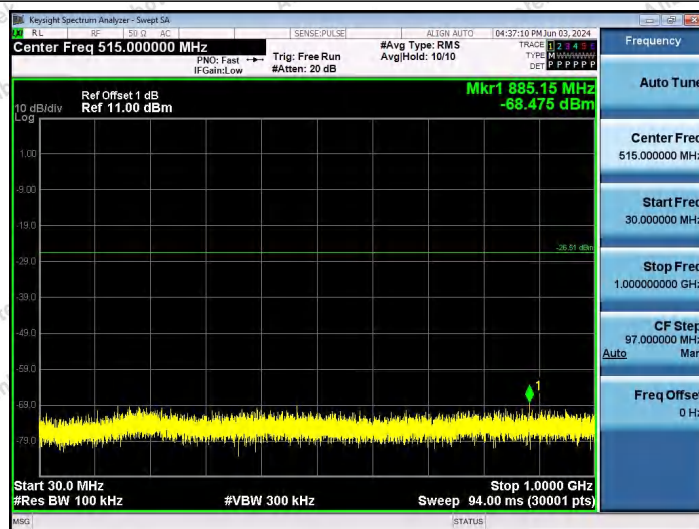


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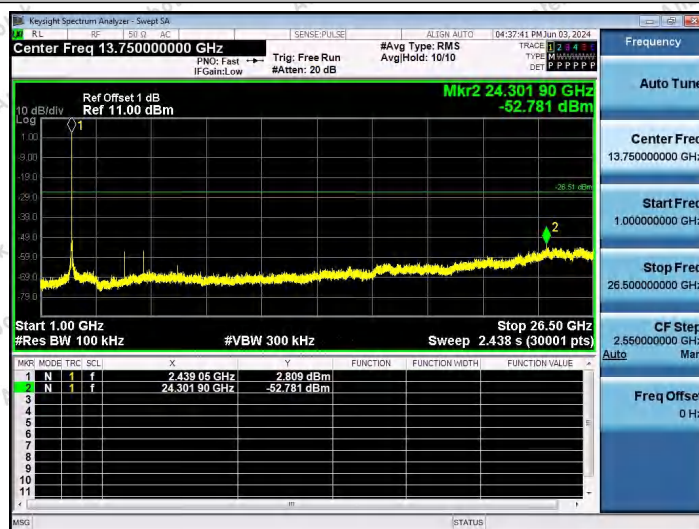




11B-Ant1-2437-0~Reference-PASS



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



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

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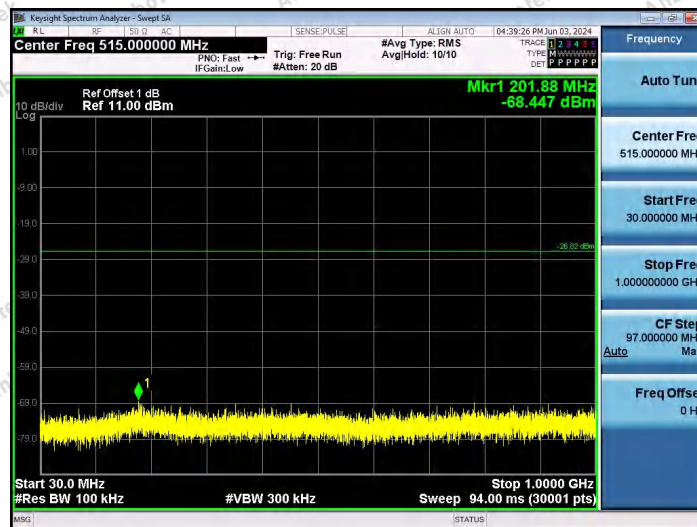


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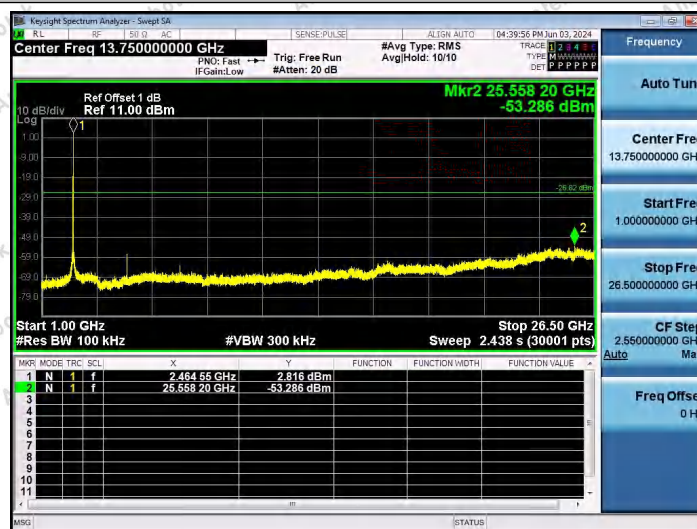




11B-Ant1-2462-0~Reference-PASS



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



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

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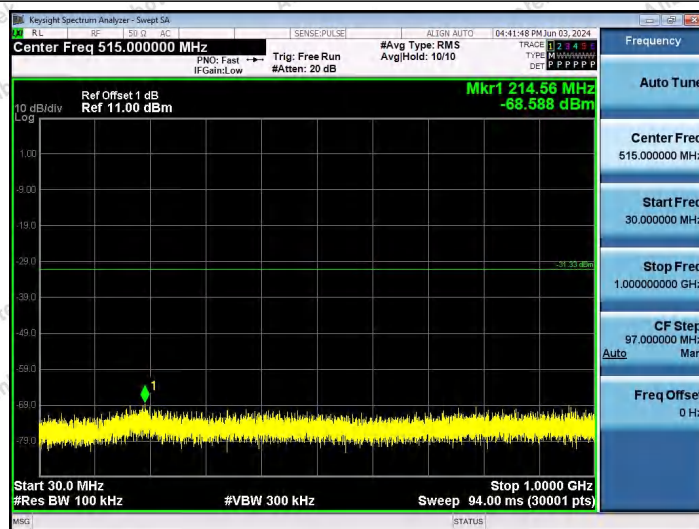


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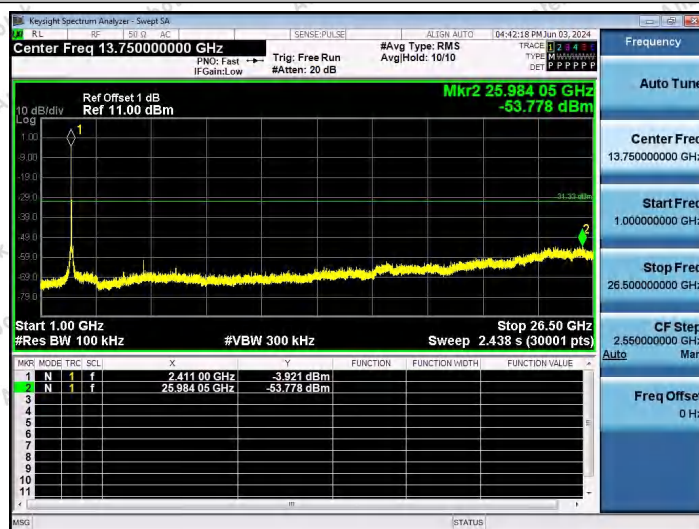




11G-Ant1-2412-0~Reference-PASS



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



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

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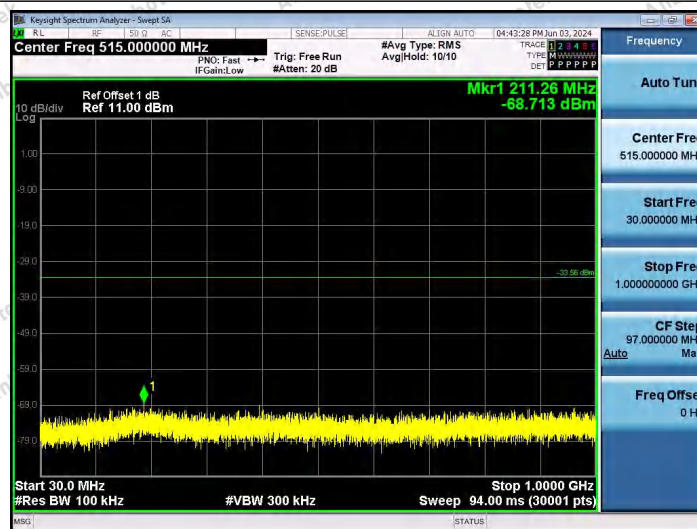


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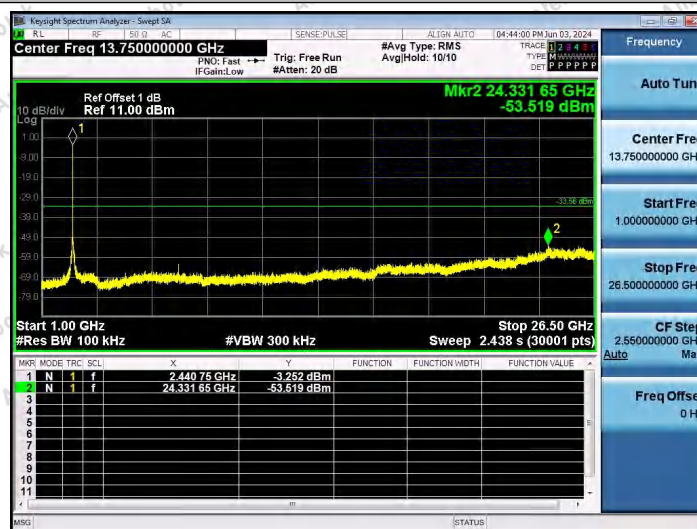




11G-Ant1-2437-0~Reference-PASS



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



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

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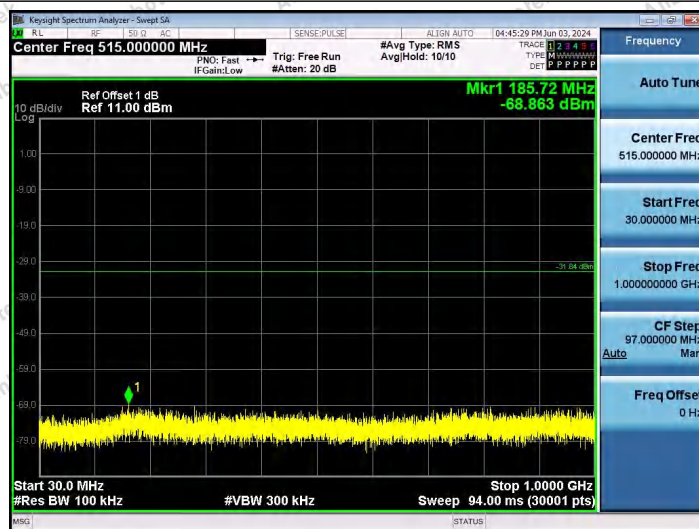


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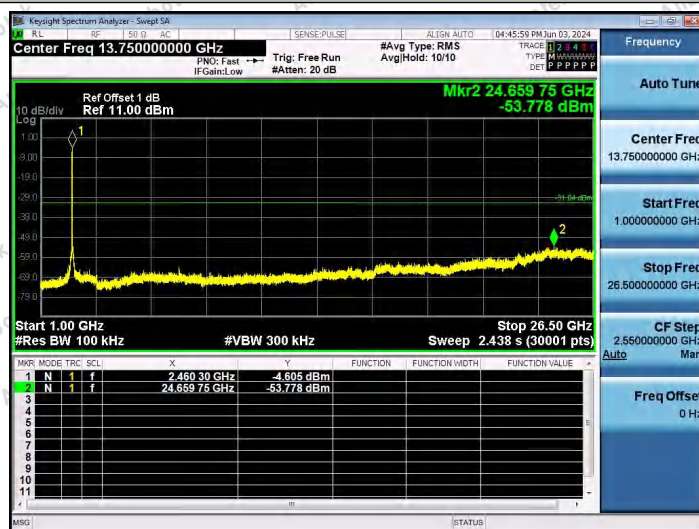




11G-Ant1-2462-0~Reference-PASS



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



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

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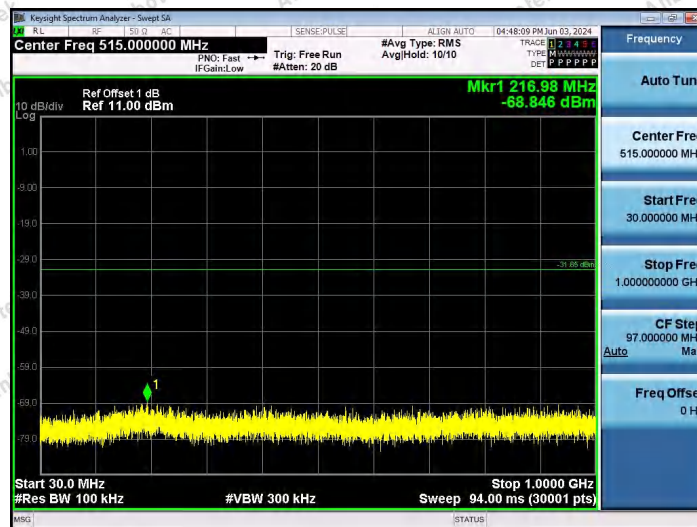


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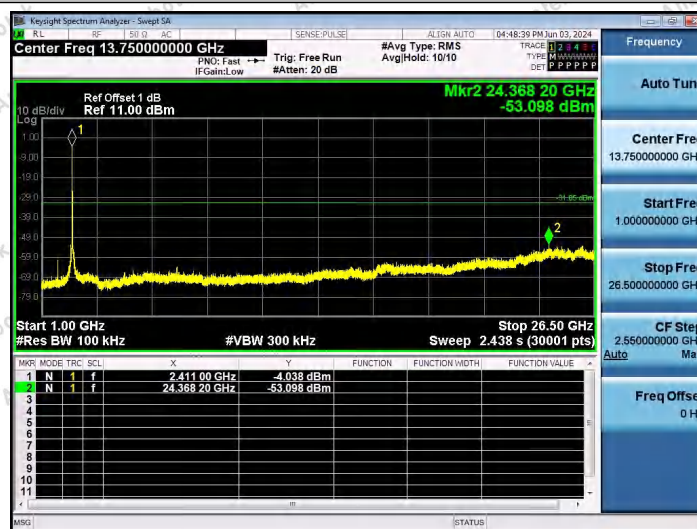




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11N20SISO-Ant1-2412-30~1000-PASS



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

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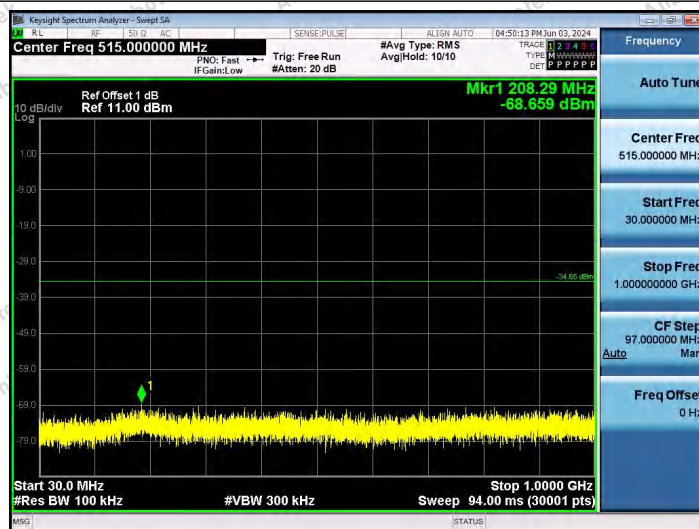


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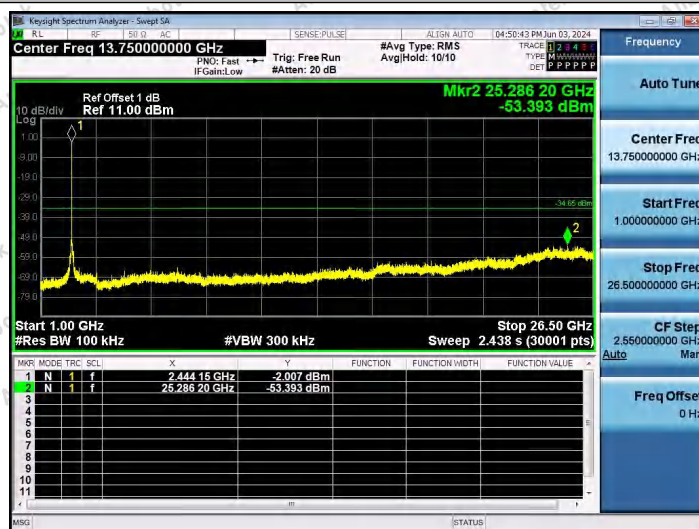




11N20SISO-Ant1-2437-0~Reference-PASS



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



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

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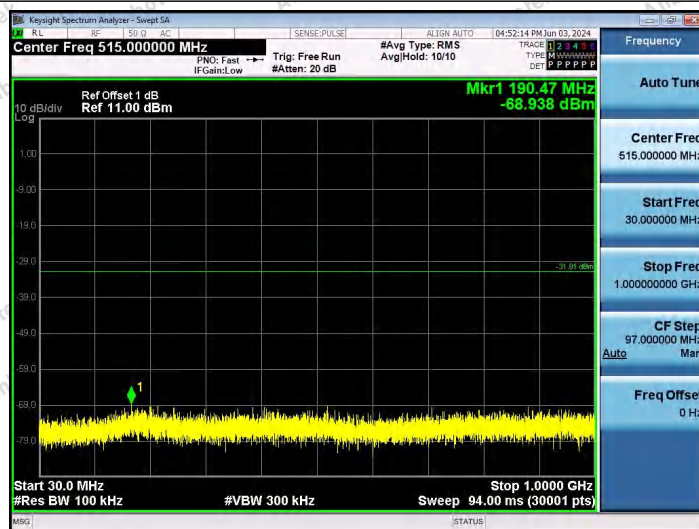


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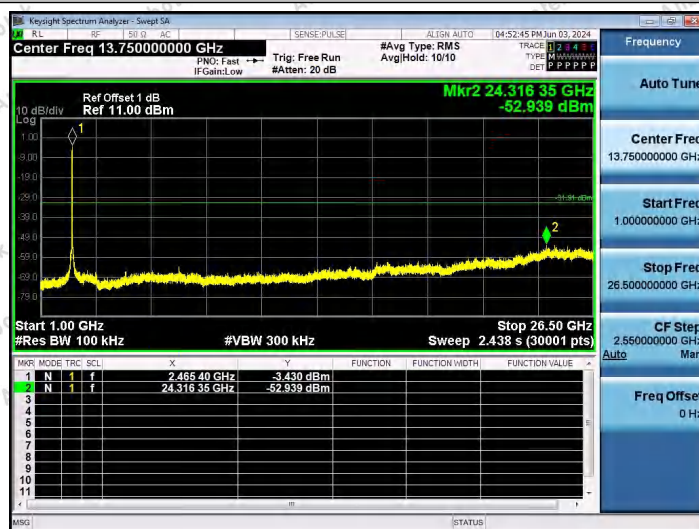




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11N20SISO-Ant1-2462-30~1000-PASS



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

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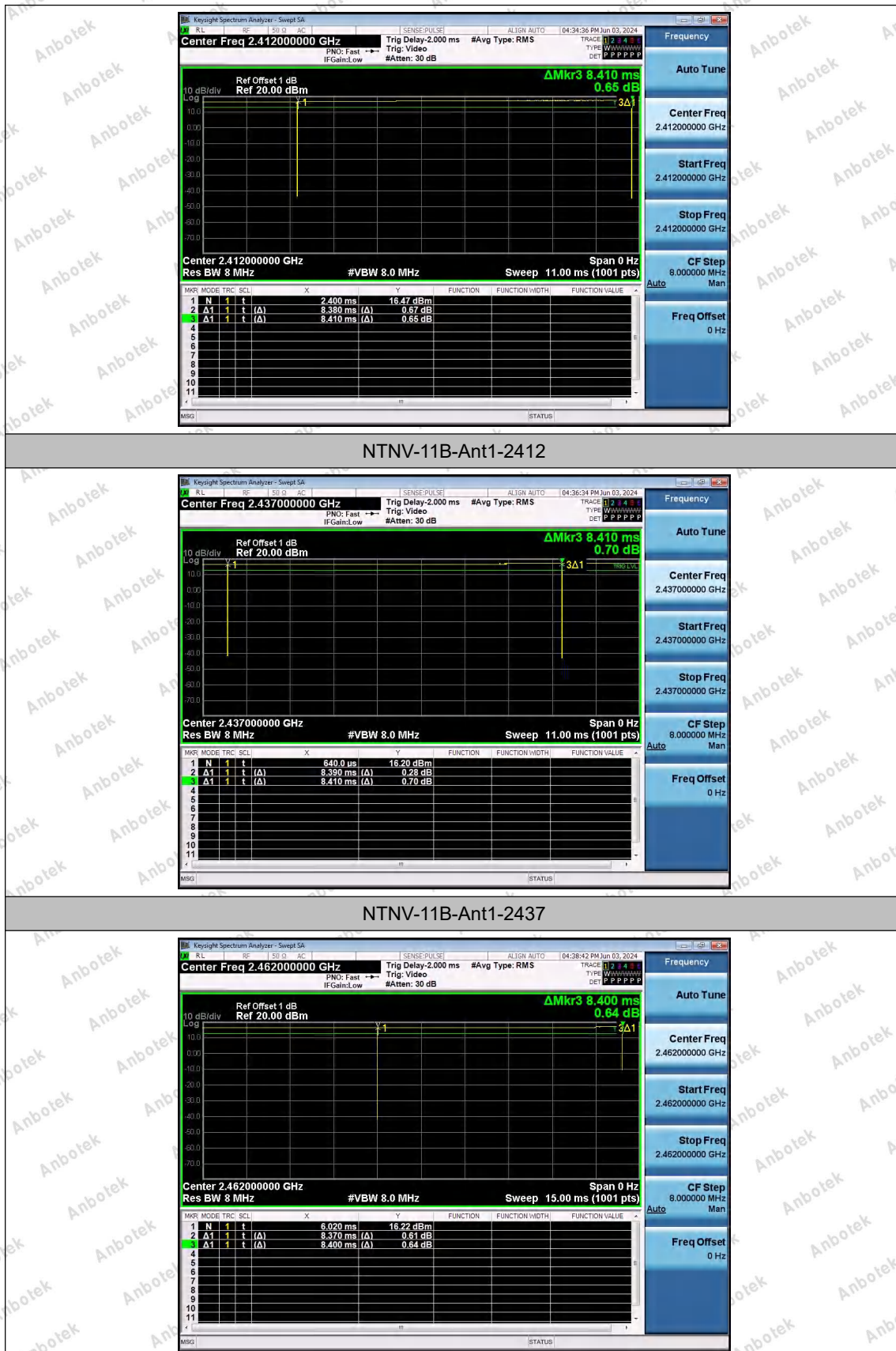
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.38	8.41	99.64	0.02
11B	Ant1	2437	8.39	8.41	99.76	0.01
11B	Ant1	2462	8.37	8.40	99.64	0.02
11G	Ant1	2412	1.40	1.43	97.90	0.09
11G	Ant1	2437	1.40	1.43	97.90	0.09
11G	Ant1	2462	1.40	1.43	97.90	0.09
11N20SISO	Ant1	2412	1.30	1.33	97.74	0.10
11N20SISO	Ant1	2437	1.30	1.34	97.01	0.13
11N20SISO	Ant1	2462	1.29	1.33	96.99	0.13



Test Graphs



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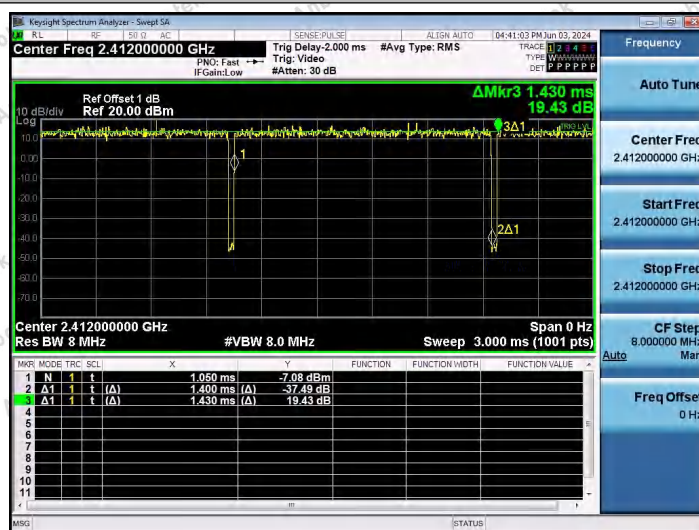
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hahgcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China,
Tel: (86) 0755-26066440 Email: service@anbotech.com



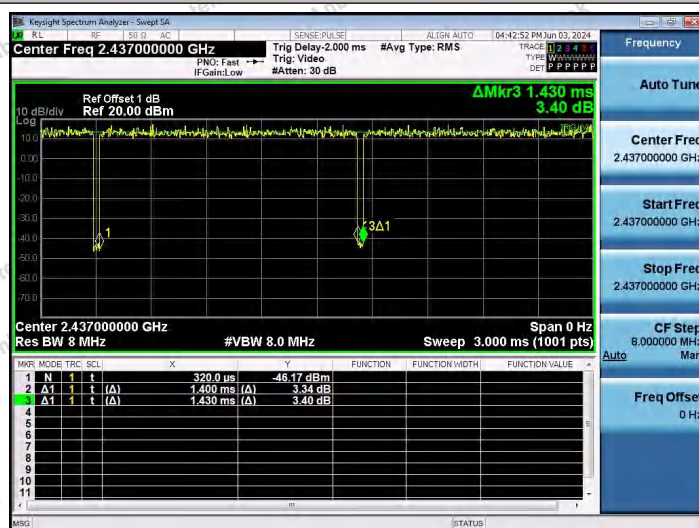
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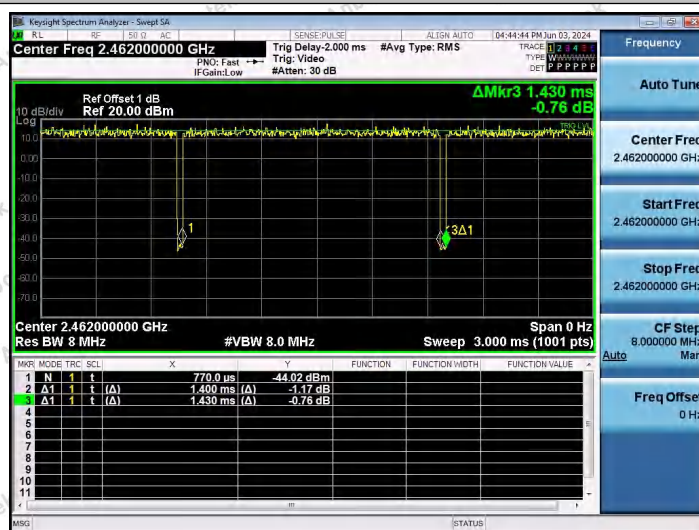
NTNV-11B-Ant1-2462



NTNV-11G-Ant1-2412



NTNV-11G-Ant1-2437



NTNV-11G-Ant1-2462

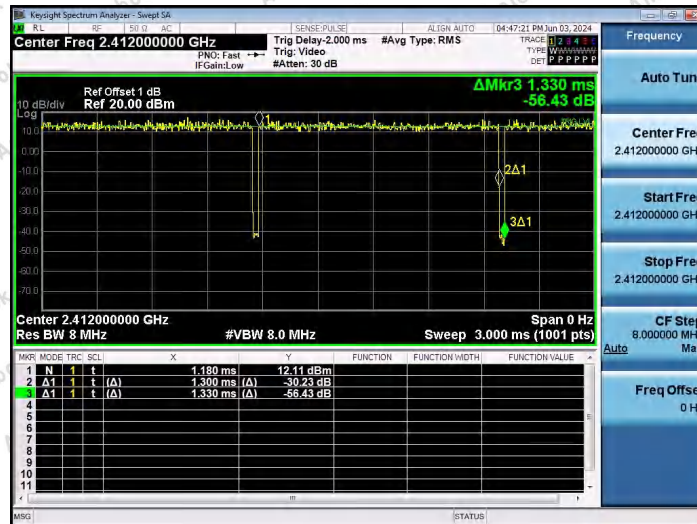
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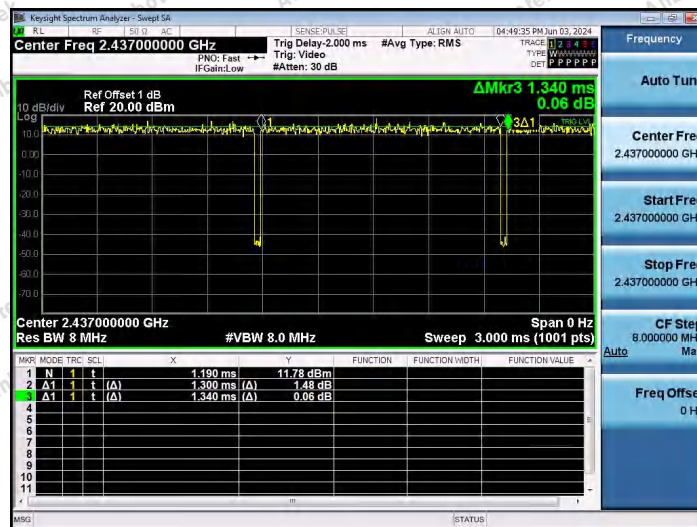


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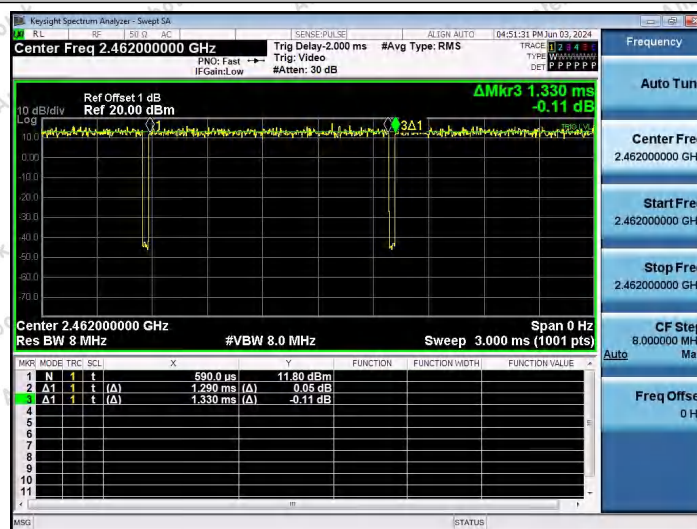




NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437



NTNV-11N20SISO-Ant1-2462

---End---

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