

Appendix Test Data

Report No.:	182514C400055102	Test Sample No.:	1-2-2
Start Test Date:	2024.7.21	Finish Test Date:	2024.7.24
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	24.3℃	Relative Humidity:	49%
Pressure:	101kPa		

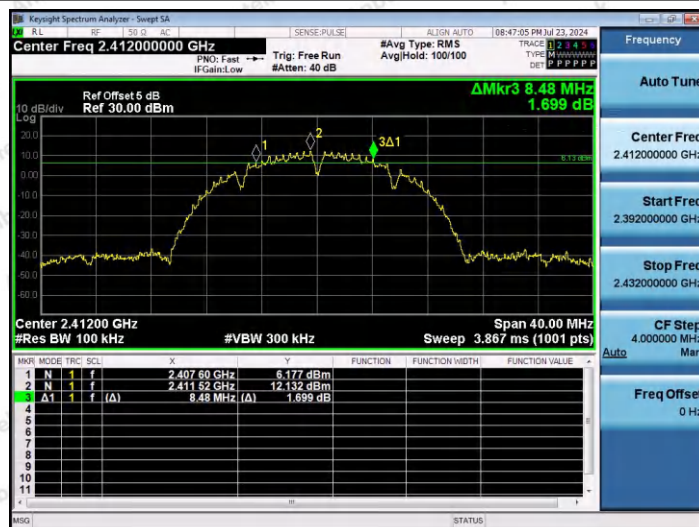
Appendix A: 6dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.480	2407.600	2416.080	0.5	PASS
11B	Ant1	2437	8.560	2432.520	2441.080	0.5	PASS
11B	Ant1	2462	8.600	2458.000	2466.600	0.5	PASS
11G	Ant1	2412	16.320	2403.920	2420.240	0.5	PASS
11G	Ant1	2437	16.320	2428.880	2445.200	0.5	PASS
11G	Ant1	2462	16.320	2453.880	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.280	2420.840	0.5	PASS
11N20SISO	Ant1	2437	17.560	2428.280	2445.840	0.5	PASS
11N20SISO	Ant1	2462	17.560	2453.280	2470.840	0.5	PASS



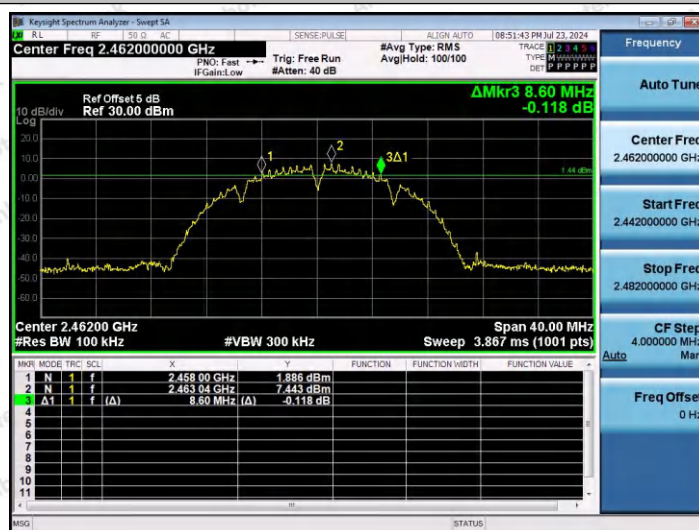
Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

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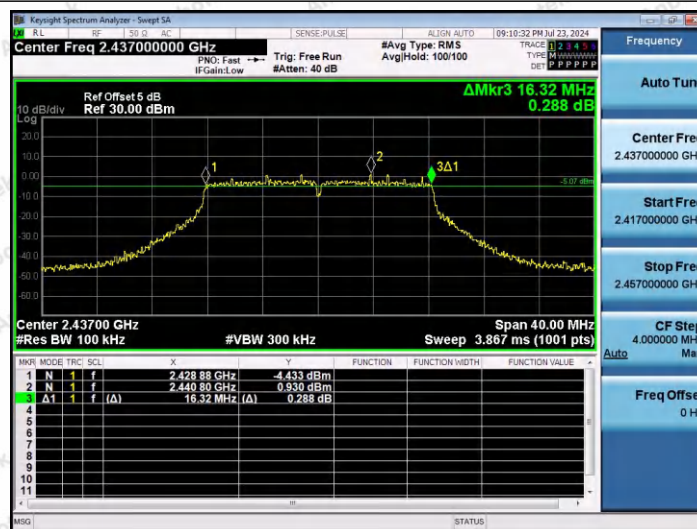


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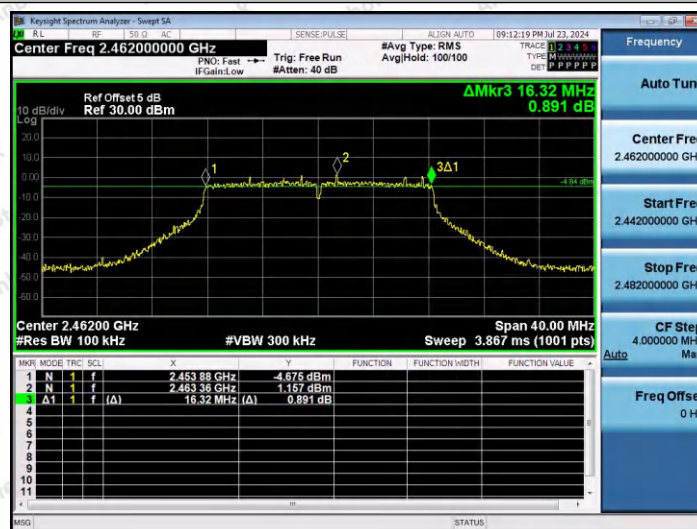




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

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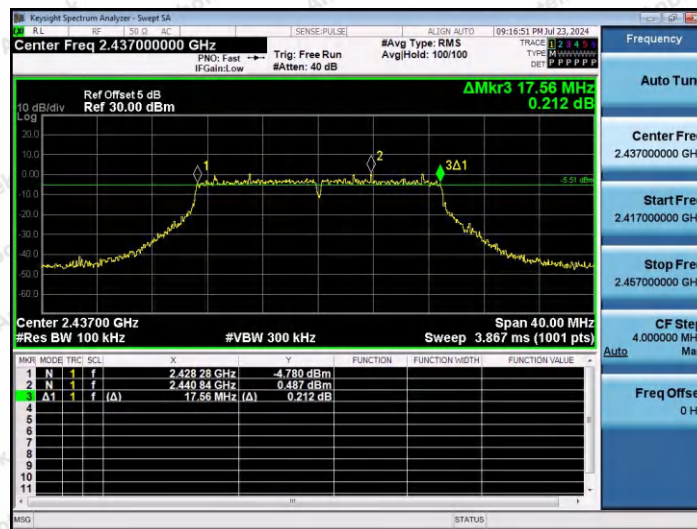


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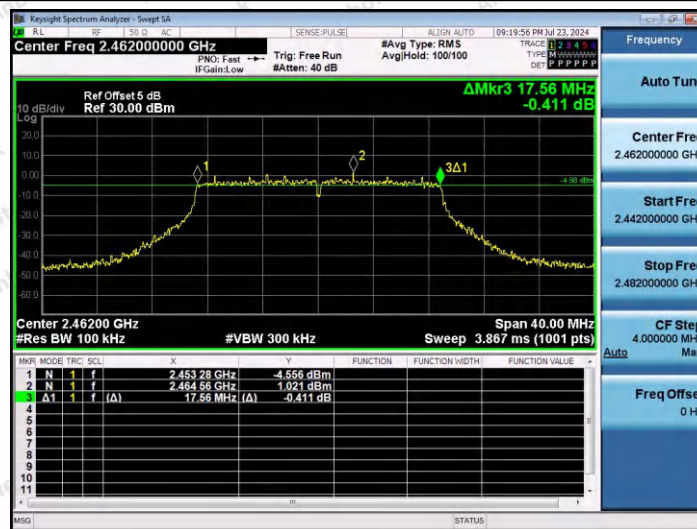




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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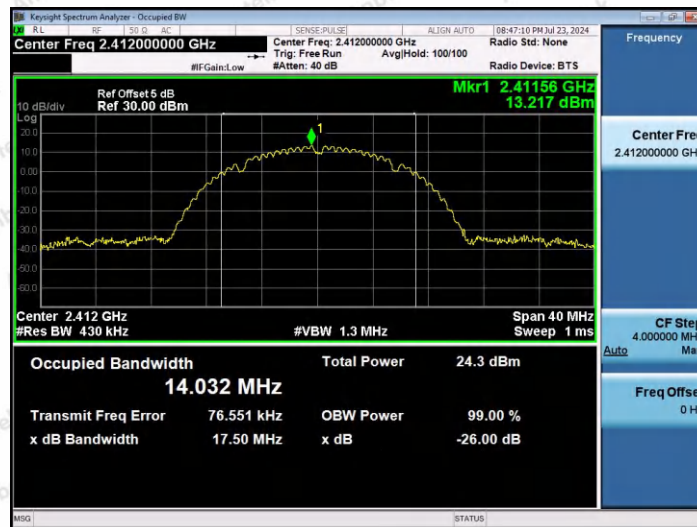
Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.032	2405.0606	2419.0926	---	---
11B	Ant1	2437	14.080	2430.0364	2444.1164	---	---
11B	Ant1	2462	14.063	2455.0495	2469.1125	---	---
11G	Ant1	2412	17.100	2403.5563	2420.6563	---	---
11G	Ant1	2437	17.257	2428.4565	2445.7135	---	---
11G	Ant1	2462	17.200	2453.4482	2470.6482	---	---
11N20SISO	Ant1	2412	18.201	2403.0005	2421.2015	---	---
11N20SISO	Ant1	2437	18.257	2427.9697	2446.2267	---	---
11N20SISO	Ant1	2462	18.308	2452.9290	2471.2370	---	---



Test Graphs



11B-Ant1-2412



11B-Ant1-2437



11B-Ant1-2462

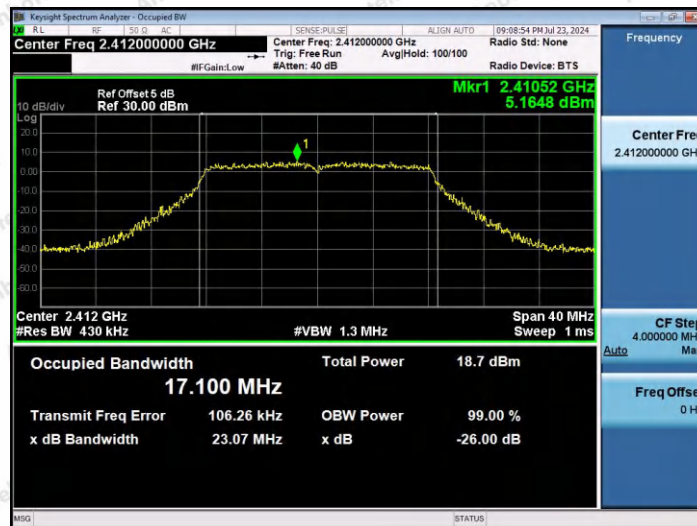
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11G-Ant1-2412



11G-Ant1-2437



11G-Ant1-2462

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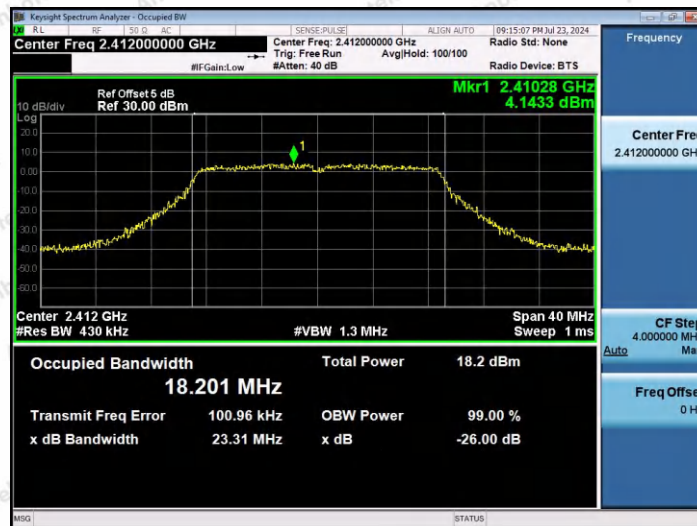


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11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



11N20SISO-Ant1-2462

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Appendix C: Maximum conducted output power

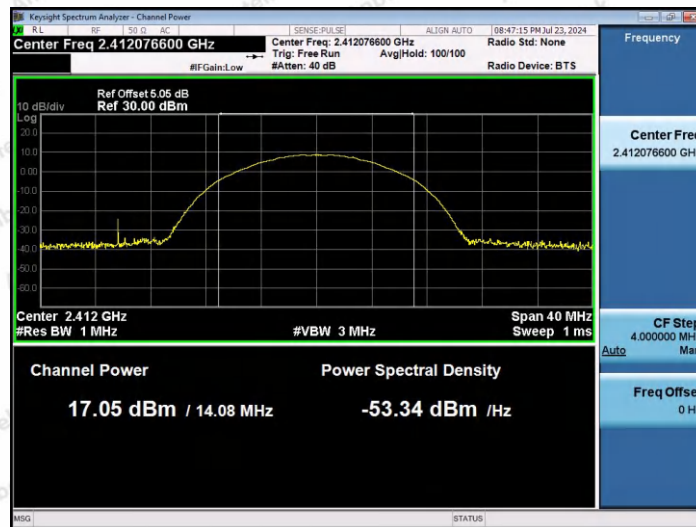
Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	17.00	98.96	0.05	17.05	≤30.0 0	PASS
11B	Ant1	2437	17.10	98.96	0.05	17.15	≤30.0 0	PASS
11B	Ant1	2462	17.21	98.96	0.05	17.26	≤30.0 0	PASS
11G	Ant1	2412	16.98	91.39	0.39	17.37	≤30.0 0	PASS
11G	Ant1	2437	16.68	92.05	0.36	17.04	≤30.0 0	PASS
11G	Ant1	2462	16.80	91.45	0.39	17.19	≤30.0 0	PASS
11N20SI SO	Ant1	2412	16.52	93.66	0.28	16.80	≤30.0 0	PASS
11N20SI SO	Ant1	2437	16.62	93.66	0.28	16.90	≤30.0 0	PASS
11N20SI SO	Ant1	2462	16.83	93.66	0.28	17.11	≤30.0 0	PASS

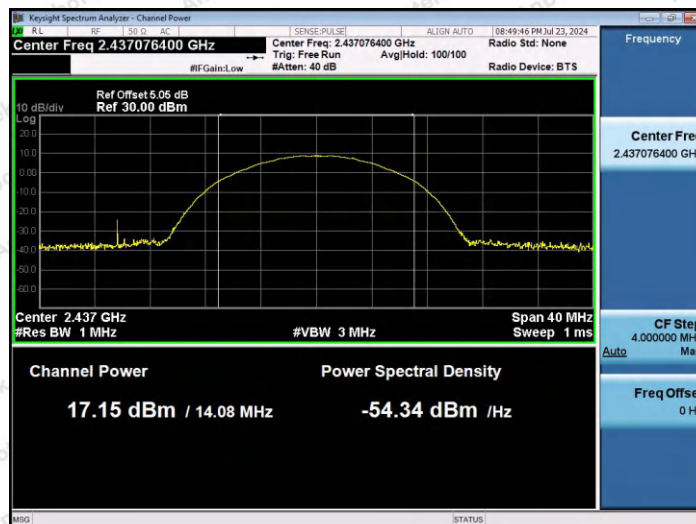
Note: The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.



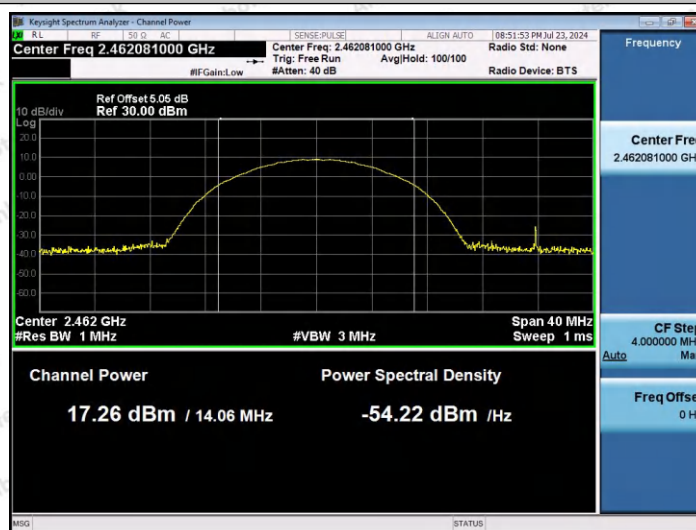
Test Graphs Average



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

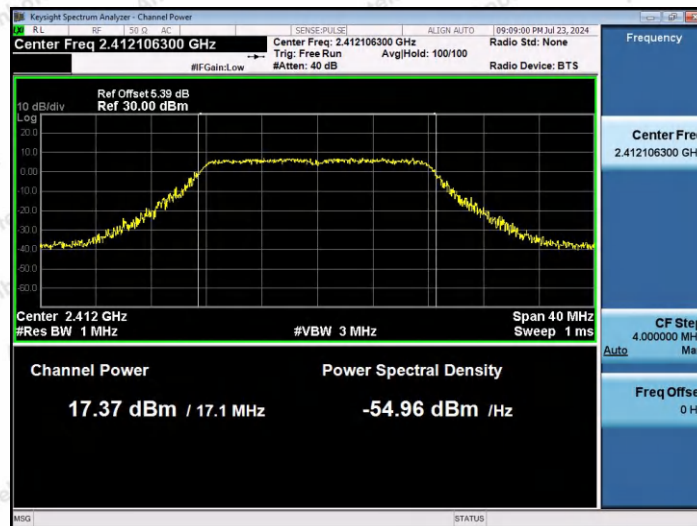
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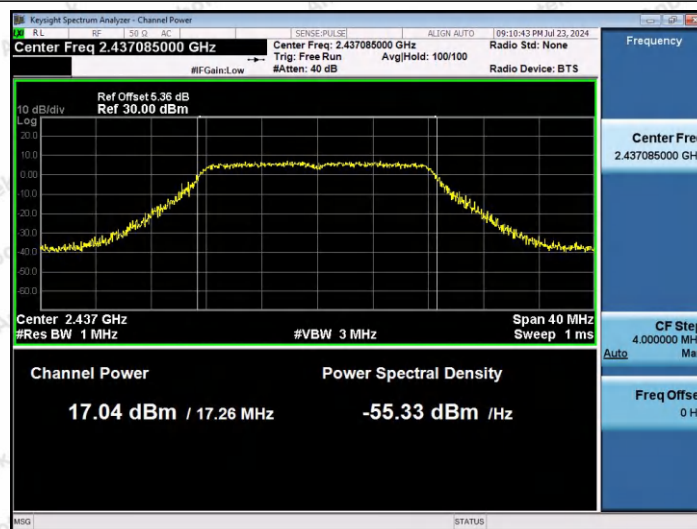


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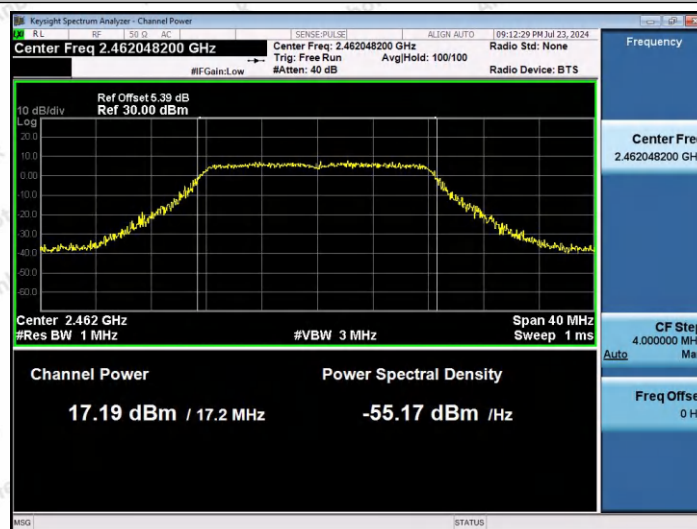




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

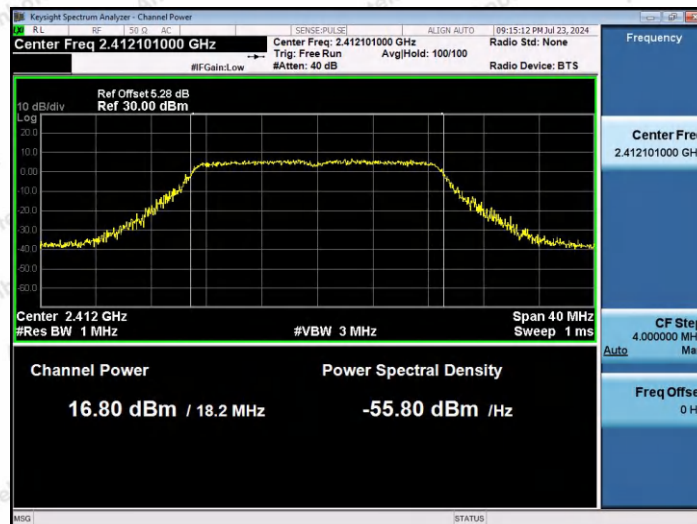
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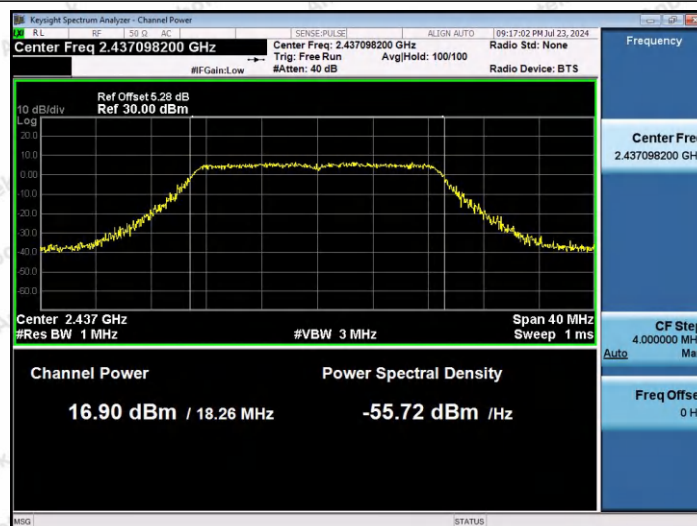


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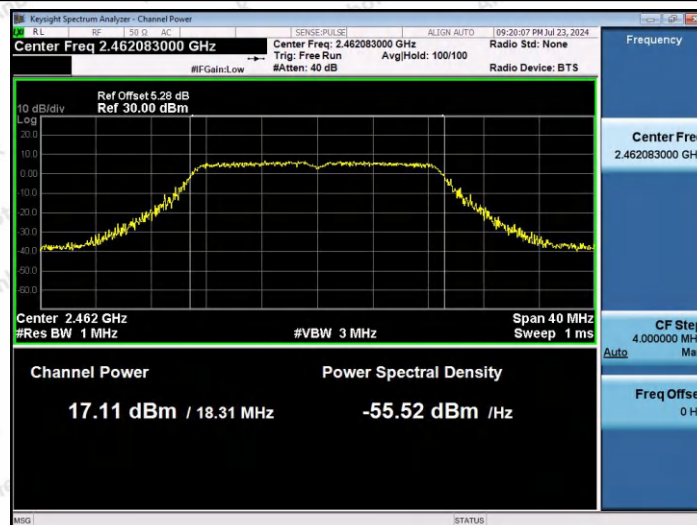




11N20SISO-Ant1-2412-PASS



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	-5.75	-15.75	≤8.00	PASS
11B	Ant1	2437	-5.85	-15.85	≤8.00	PASS
11B	Ant1	2462	-5.84	-15.84	≤8.00	PASS
11G	Ant1	2412	-11.62	-21.62	≤8.00	PASS
11G	Ant1	2437	-11.84	-21.84	≤8.00	PASS
11G	Ant1	2462	-11.74	-21.74	≤8.00	PASS
11N20SIS O	Ant1	2412	-12.67	-22.67	≤8.00	PASS
11N20SIS O	Ant1	2437	-12.17	-22.17	≤8.00	PASS
11N20SIS O	Ant1	2462	-12.22	-22.22	≤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

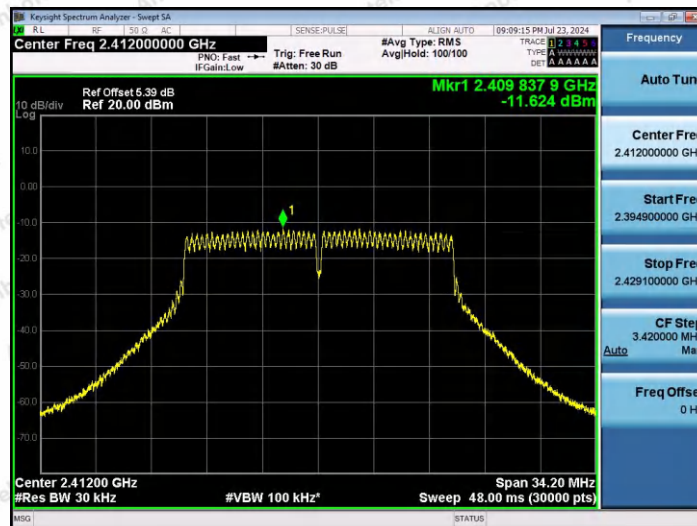
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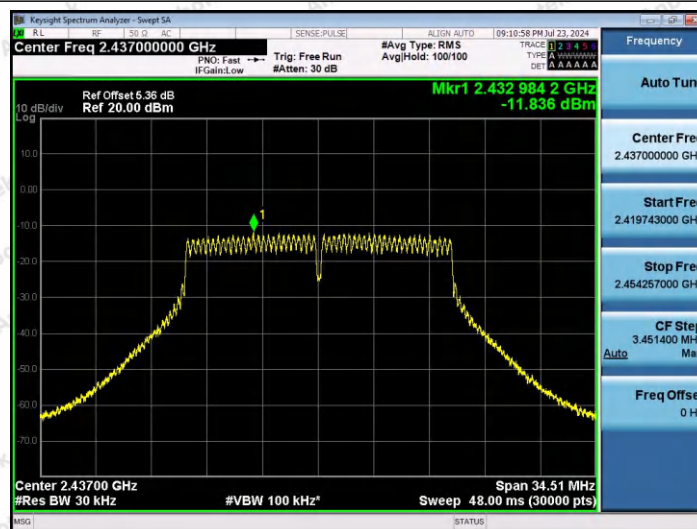


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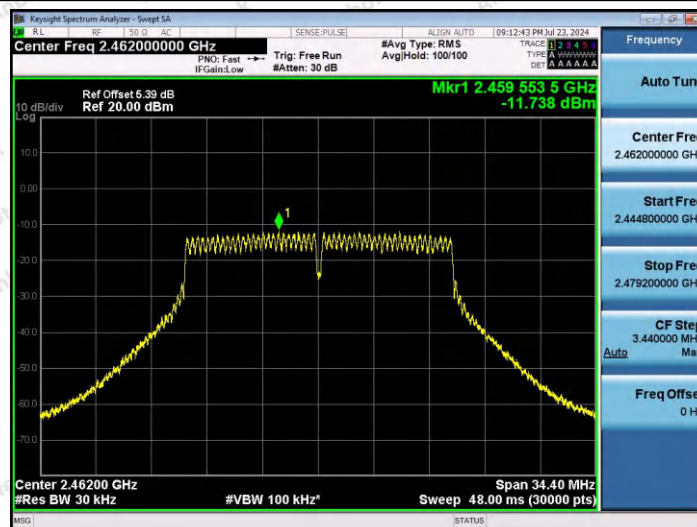




11G-Ant1-2412-PASS

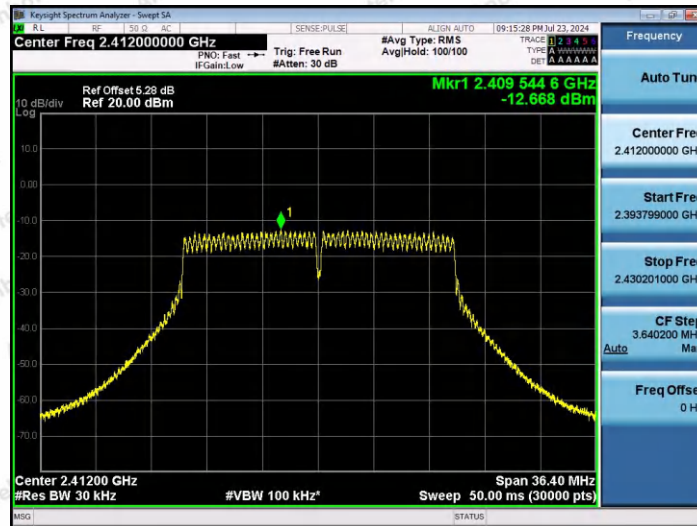


11G-Ant1-2437-PASS

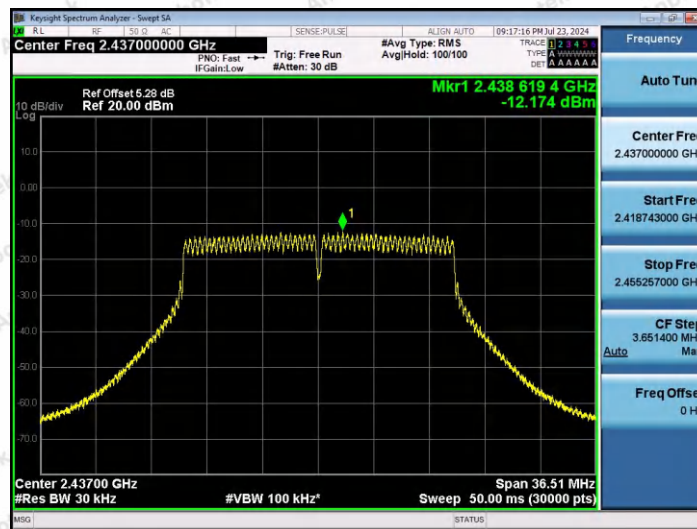


11G-Ant1-2462-PASS

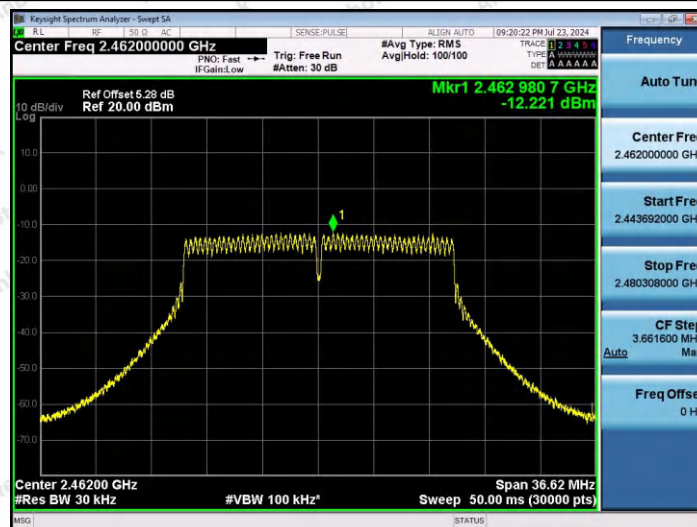




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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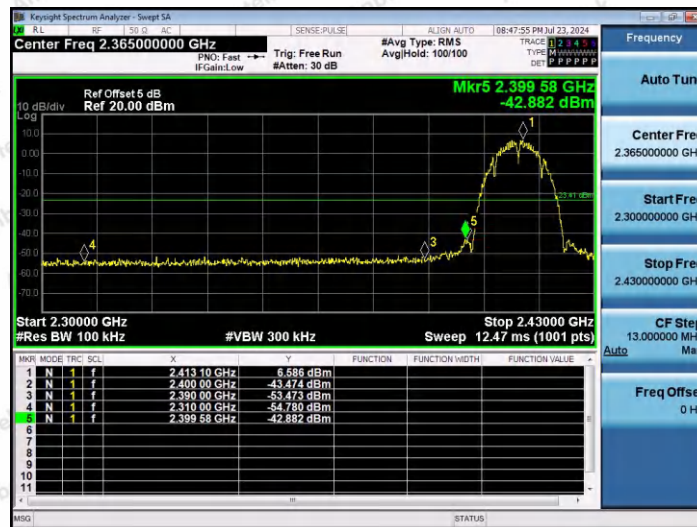
Appendix E: Conducted Band edge

Test Result

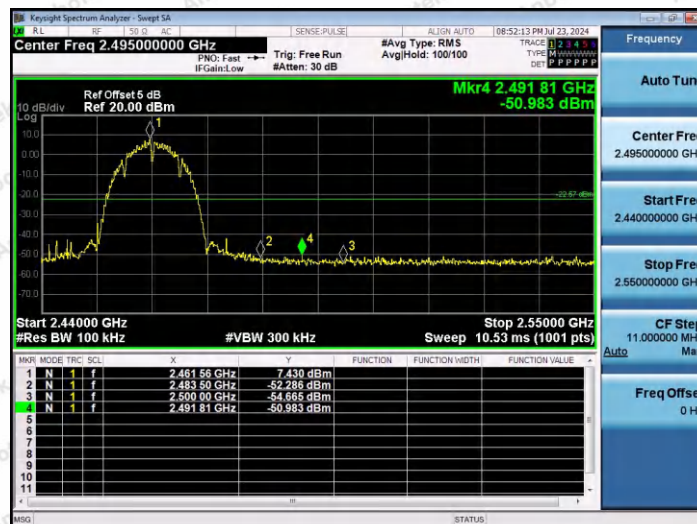
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.59	-42.88	≤-23.41	PASS
11B	Ant1	High	2462	7.43	-50.98	≤-22.57	PASS
11G	Ant1	Low	2412	1.55	-33.26	≤-28.45	PASS
11G	Ant1	High	2462	1.53	-51.73	≤-28.48	PASS
11N20SISO	Ant1	Low	2412	1.26	-33.84	≤-28.74	PASS
11N20SISO	Ant1	High	2462	1.07	-50.84	≤-28.94	PASS



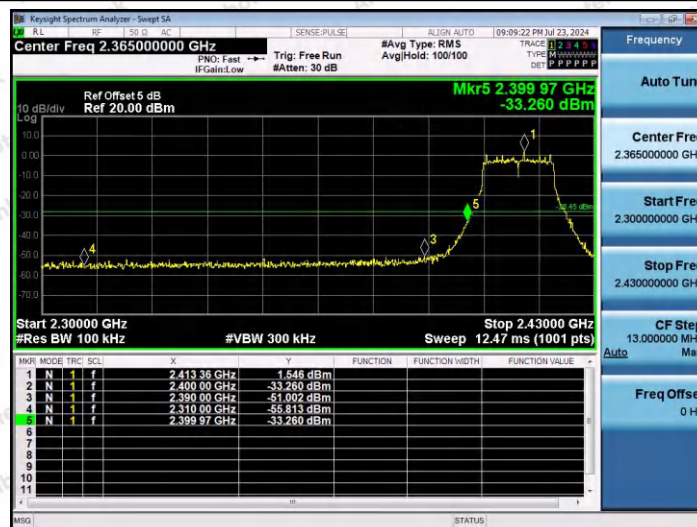
Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2462-PASS



11G-Ant1-2412-PASS

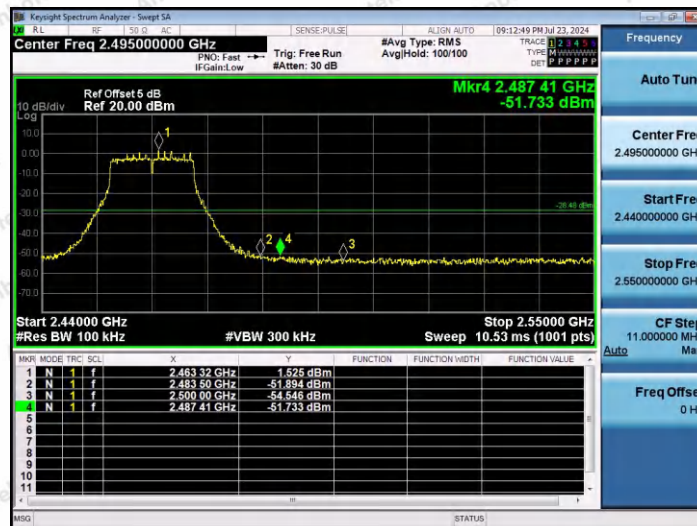
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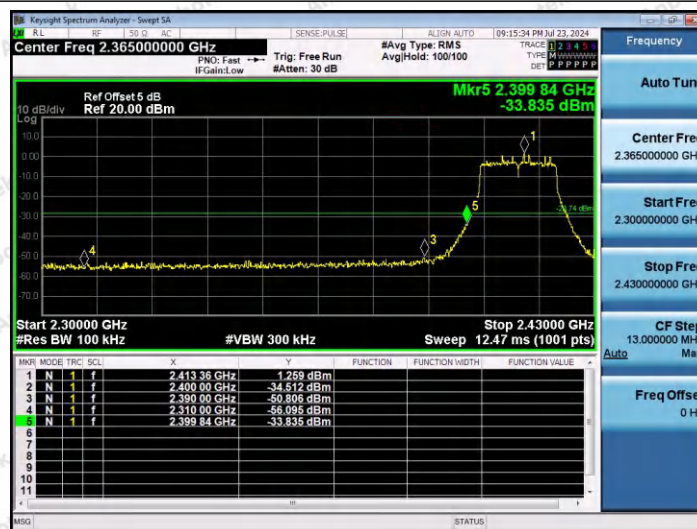


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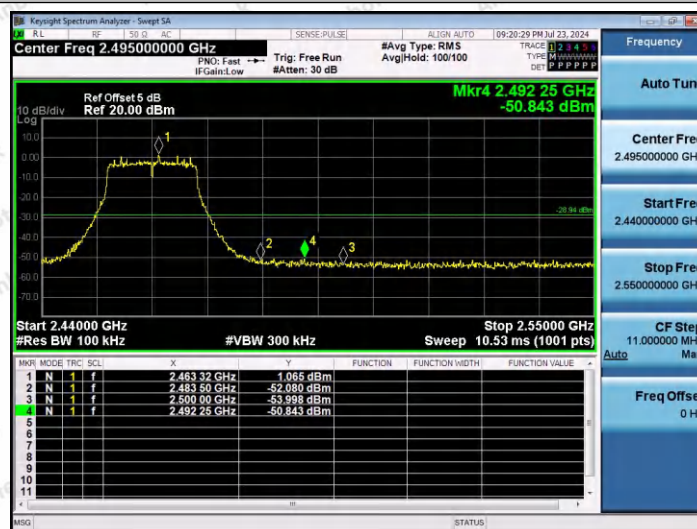




11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS

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Appendix F: Conducted Spurious Emission

Test Result

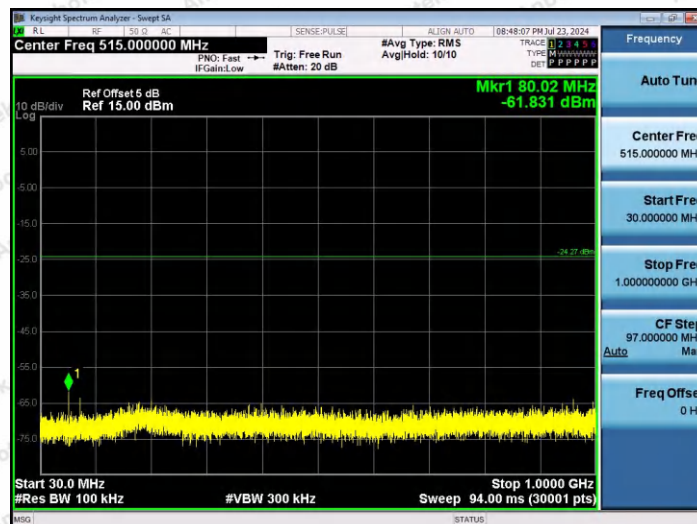
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	5.73	5.73	---	PASS
11B	Ant1	2412	30~1000	5.73	-61.83	≤-24.27	PASS
11B	Ant1	2412	1000~26500	5.73	-49.67	≤-24.27	PASS
11B	Ant1	2437	0~Reference	5.47	5.47	---	PASS
11B	Ant1	2437	30~1000	5.47	-63.19	≤-24.53	PASS
11B	Ant1	2437	1000~26500	5.47	-49.26	≤-24.53	PASS
11B	Ant1	2462	0~Reference	5.94	5.94	---	PASS
11B	Ant1	2462	30~1000	5.94	-62.29	≤-24.06	PASS
11B	Ant1	2462	1000~26500	5.94	-49.56	≤-24.06	PASS
11G	Ant1	2412	0~Reference	-0.08	-0.08	---	PASS
11G	Ant1	2412	30~1000	-0.08	-59.16	≤-30.08	PASS
11G	Ant1	2412	1000~26500	-0.08	-48.33	≤-30.08	PASS
11G	Ant1	2437	0~Reference	0.29	0.29	---	PASS
11G	Ant1	2437	30~1000	0.29	-59.07	≤-29.71	PASS
11G	Ant1	2437	1000~26500	0.29	-50.04	≤-29.71	PASS
11G	Ant1	2462	0~Reference	-0.67	-0.67	---	PASS
11G	Ant1	2462	30~1000	-0.67	-58.61	≤-30.67	PASS
11G	Ant1	2462	1000~26500	-0.67	-49.68	≤-30.67	PASS
11N20SISO	Ant1	2412	0~Reference	-1.10	-1.10	---	PASS
11N20SISO	Ant1	2412	30~1000	-1.10	-58.86	≤-31.1	PASS
11N20SISO	Ant1	2412	1000~26500	-1.10	-50.14	≤-31.1	PASS
11N20SISO	Ant1	2437	0~Reference	0.50	0.50	---	PASS
11N20SISO	Ant1	2437	30~1000	0.50	-58.75	≤-29.5	PASS
11N20SISO	Ant1	2437	1000~26500	0.50	-49.44	≤-29.5	PASS
11N20SISO	Ant1	2462	0~Reference	-1.14	-1.14	---	PASS
11N20SISO	Ant1	2462	30~1000	-1.14	-58.92	≤-31.14	PASS
11N20SISO	Ant1	2462	1000~26500	-1.14	-49.2	≤-31.14	PASS



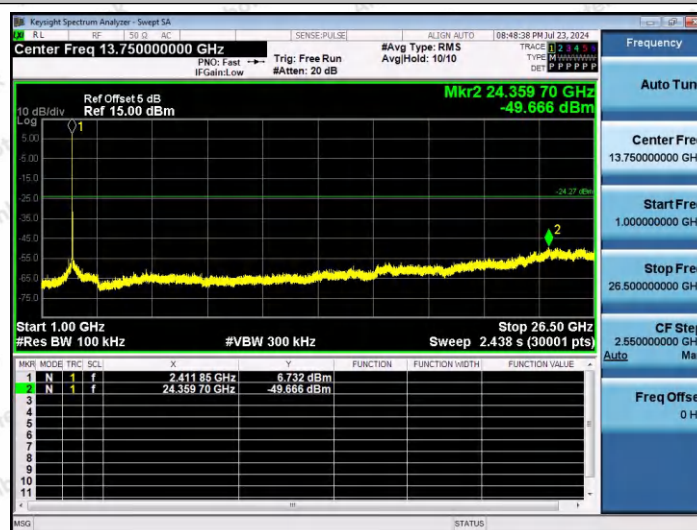
Test Graphs



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



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



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

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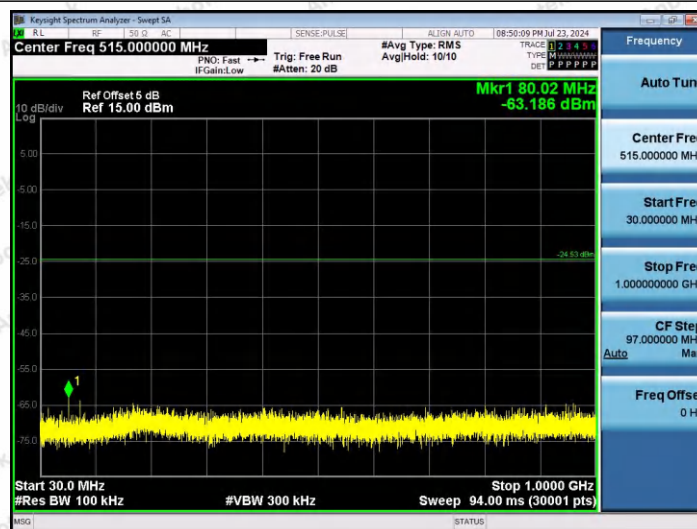


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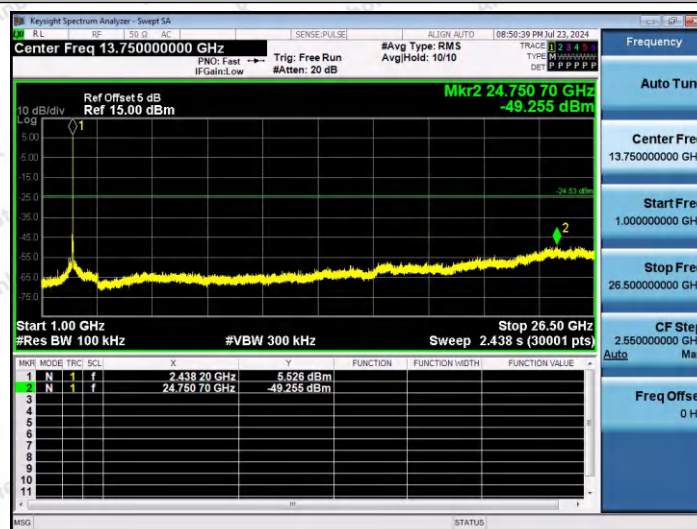




11B-Ant1-2437-0~Reference-PASS



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



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

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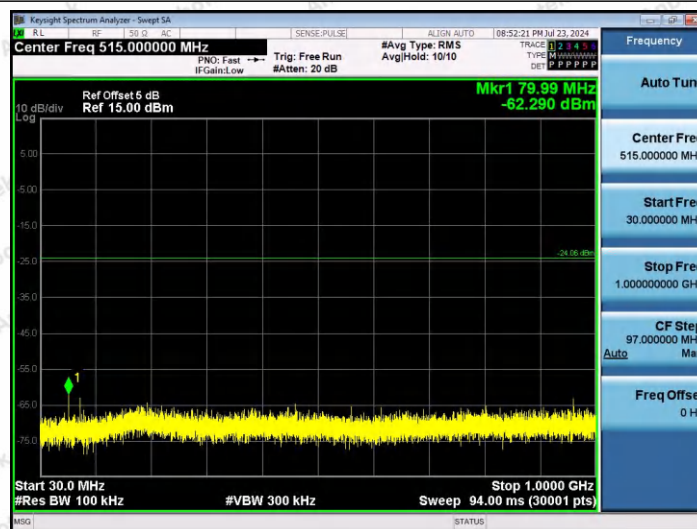


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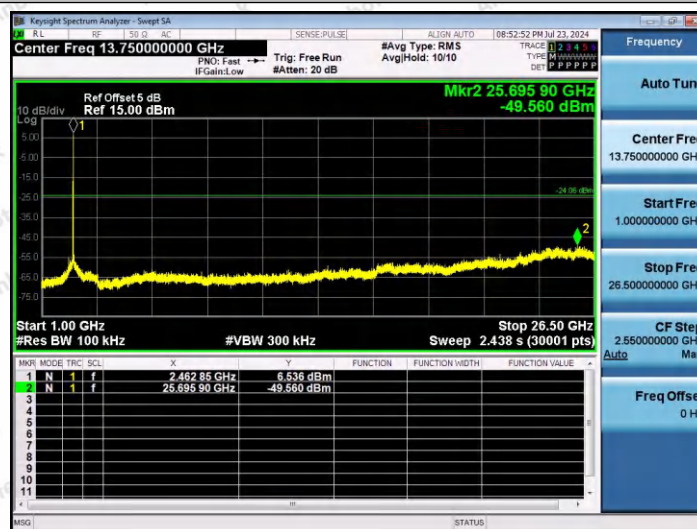




11B-Ant1-2462-0~Reference-PASS



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



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

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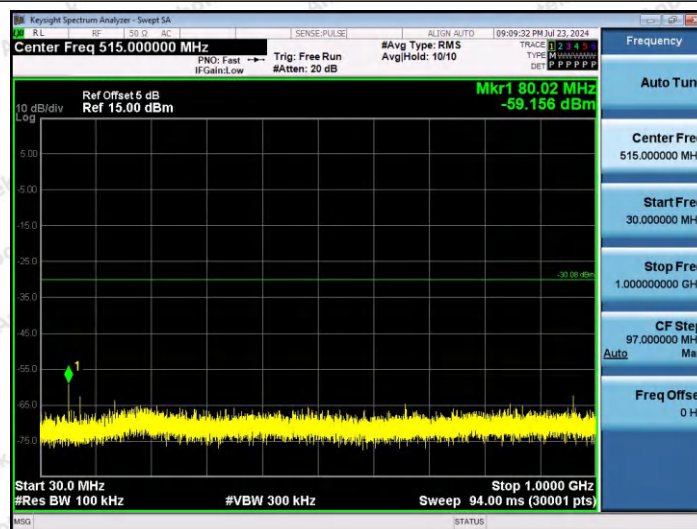


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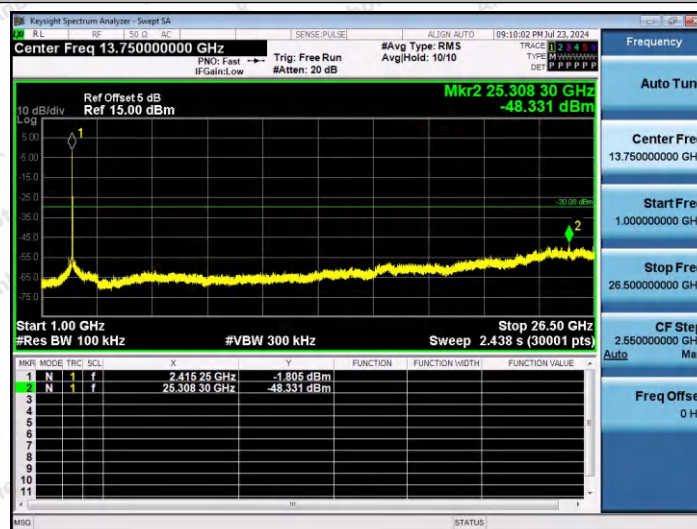




11G-Ant1-2412-0~Reference-PASS



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



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

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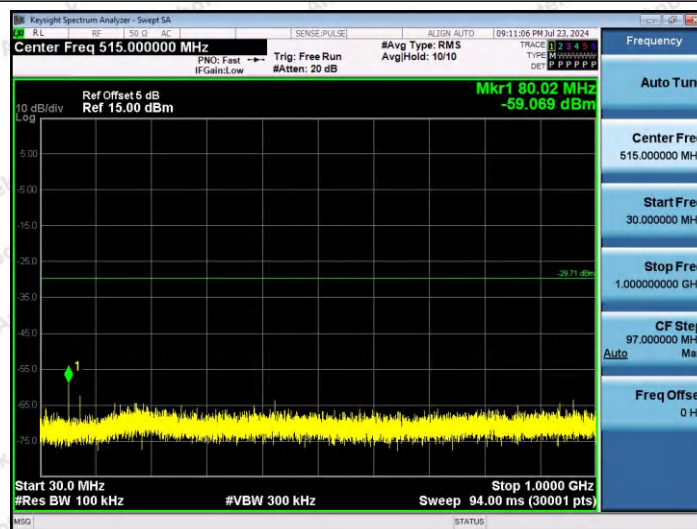


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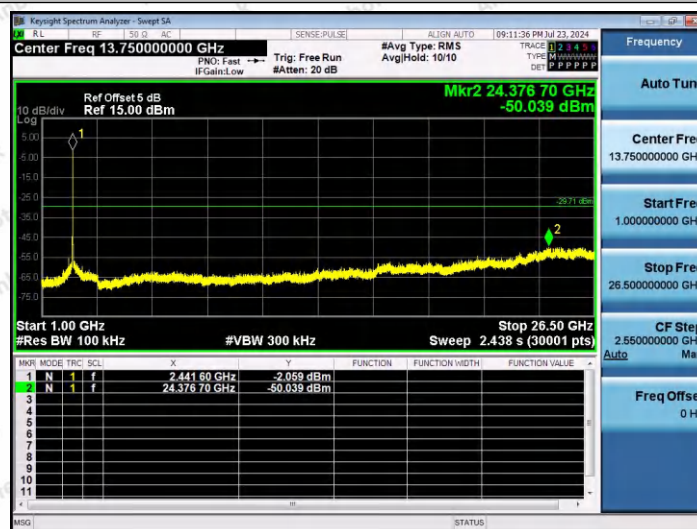




11G-Ant1-2437-0~Reference-PASS



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



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

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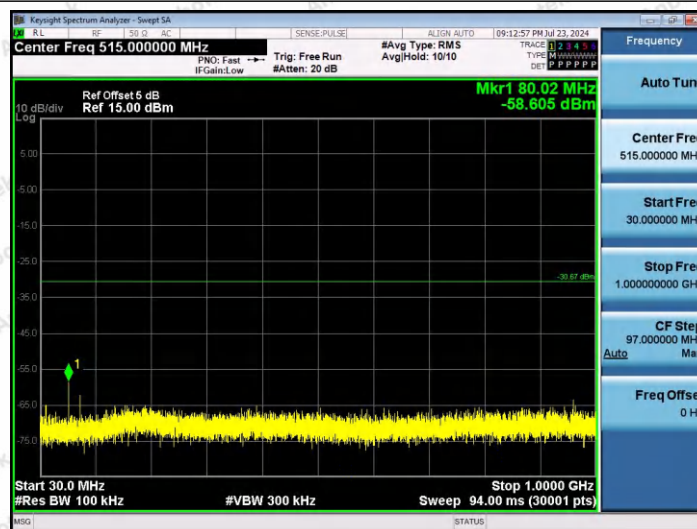


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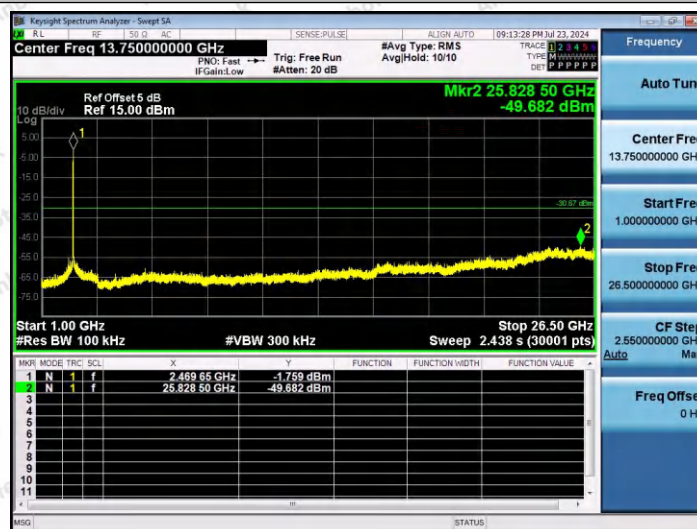




11G-Ant1-2462-0~Reference-PASS



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



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

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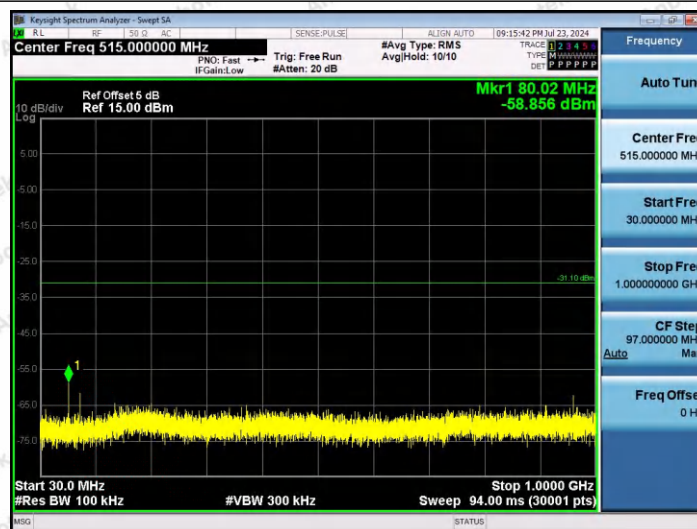


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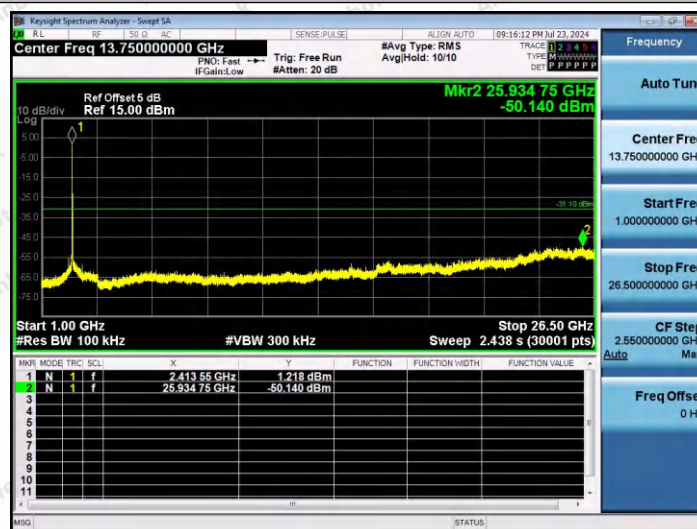




11N20SISO-Ant1-2412-0~Reference-PASS



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



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

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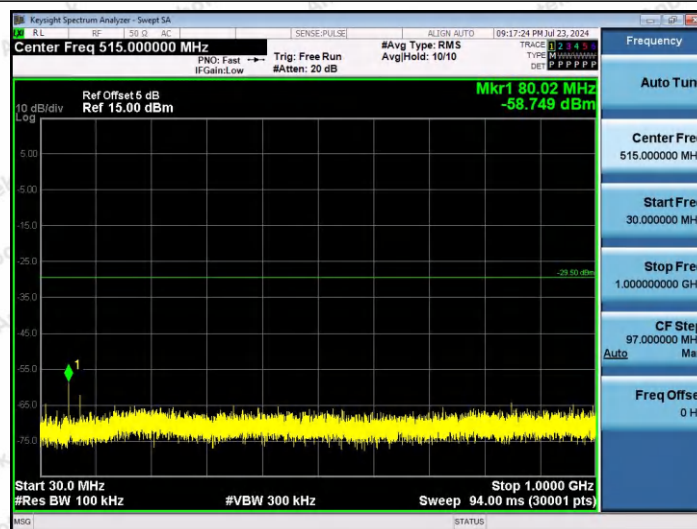


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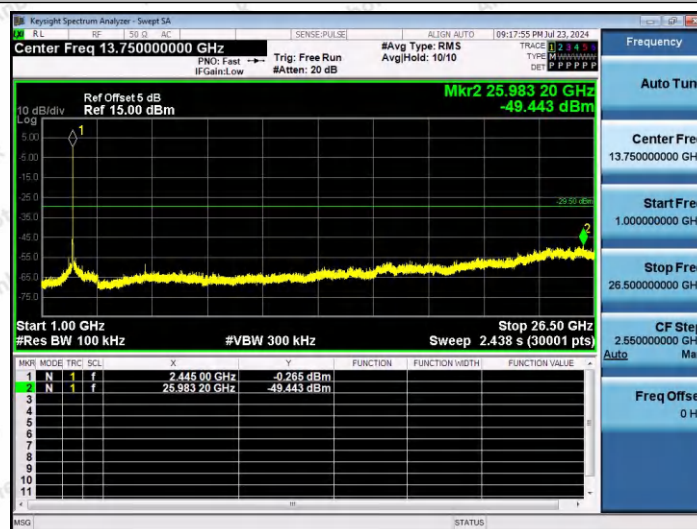




11N20SISO-Ant1-2437-0~Reference-PASS



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



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

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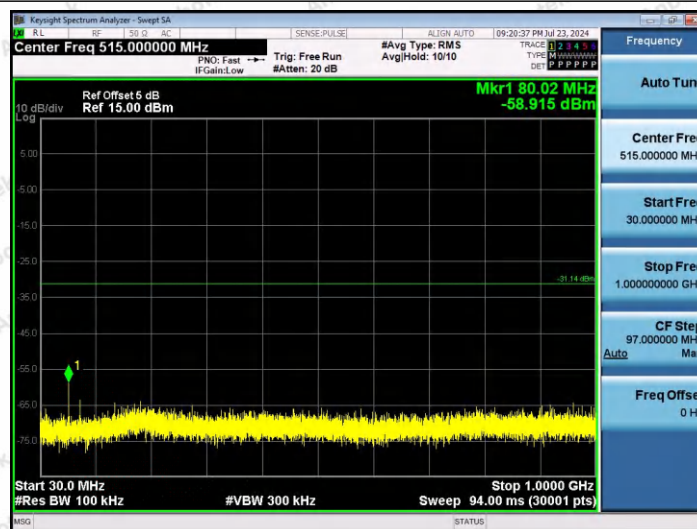


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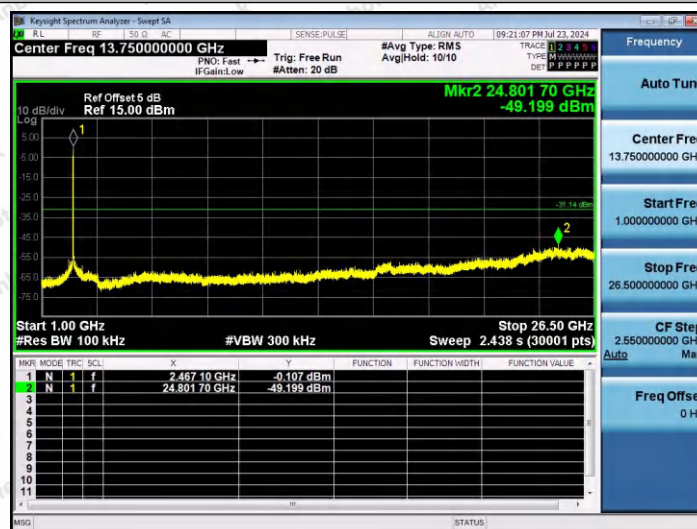




11N20SISO-Ant1-2462-0~Reference-PASS



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	12.42	12.55	98.96	0.05
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	1.38	1.51	91.39	0.39
11G	Ant1	2437	1.39	1.51	92.05	0.36
11G	Ant1	2462	1.39	1.52	91.45	0.39
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

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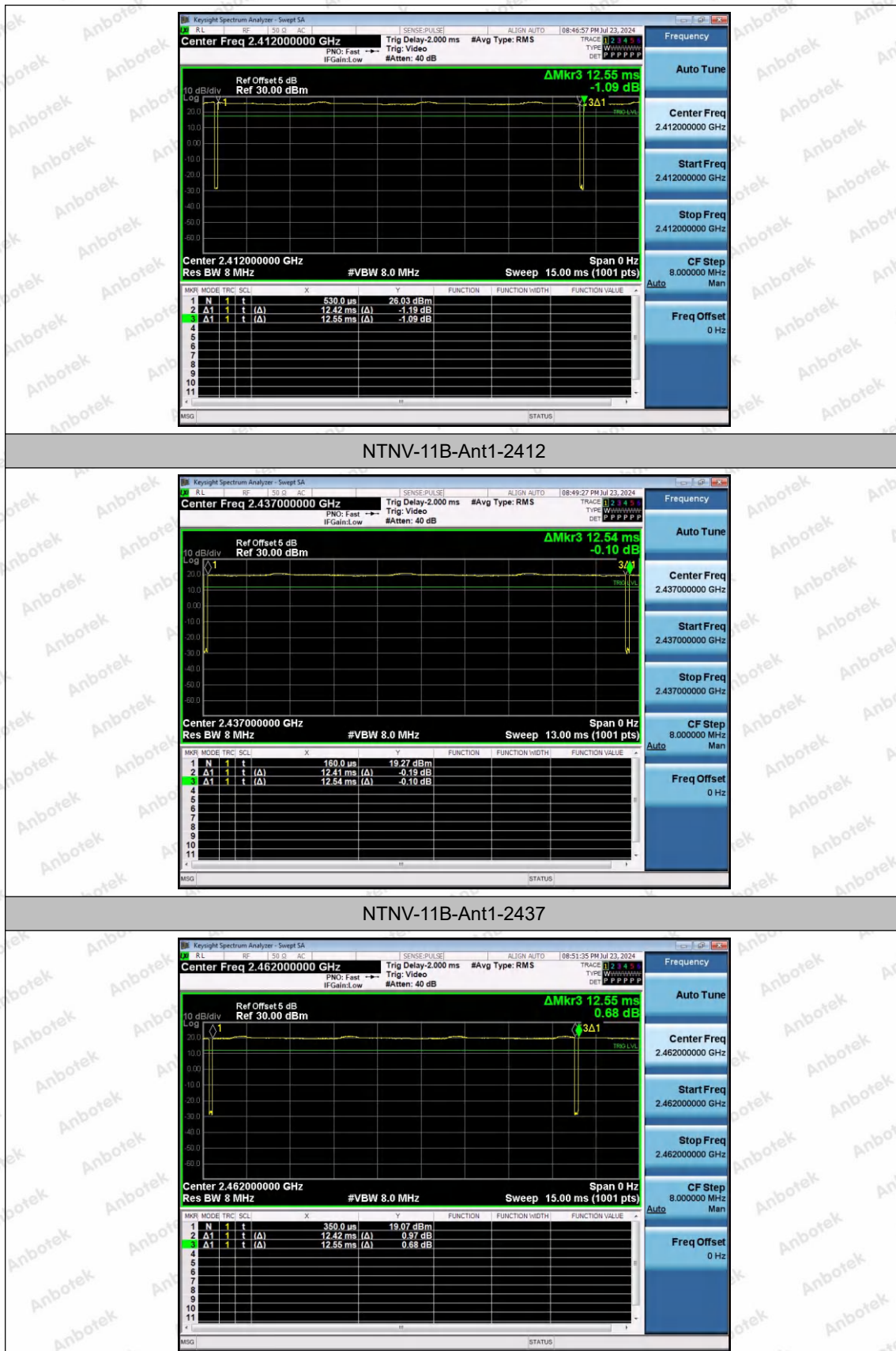
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Test Graphs



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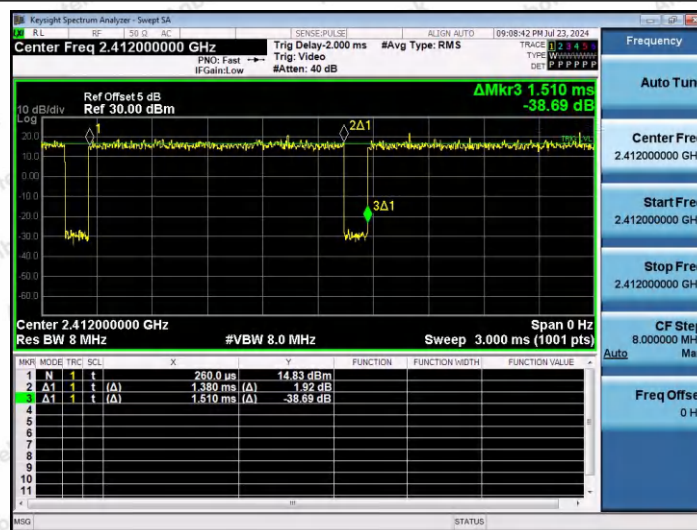
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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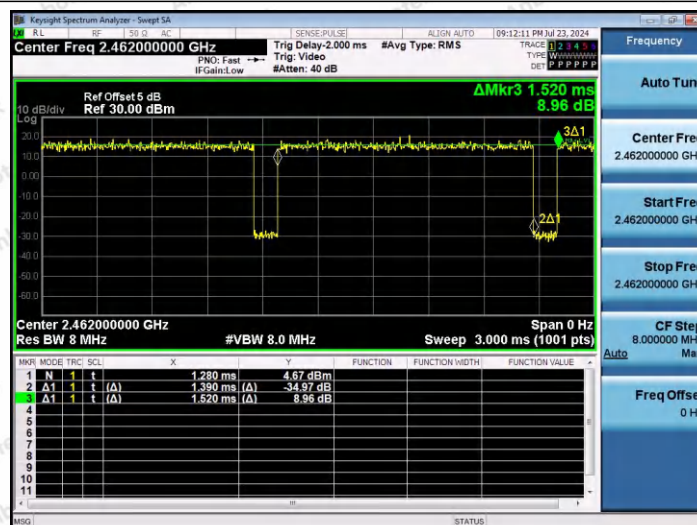
NTNV-11B-Ant1-2462



NTNV-11G-Ant1-2412



NTNV-11G-Ant1-2437



NTNV-11G-Ant1-2462

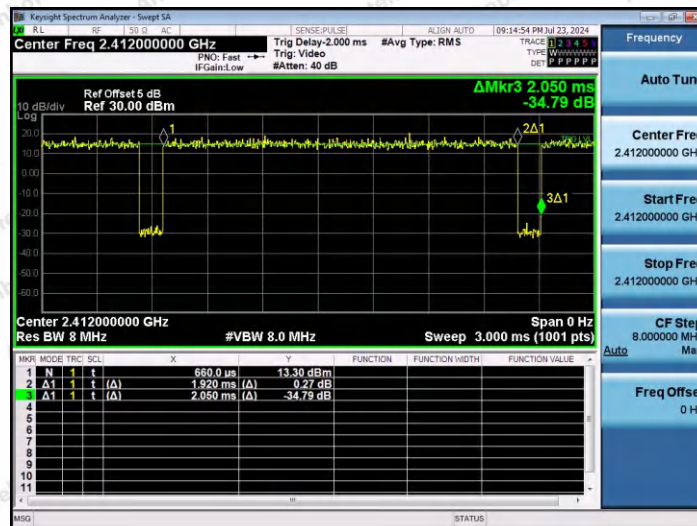
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

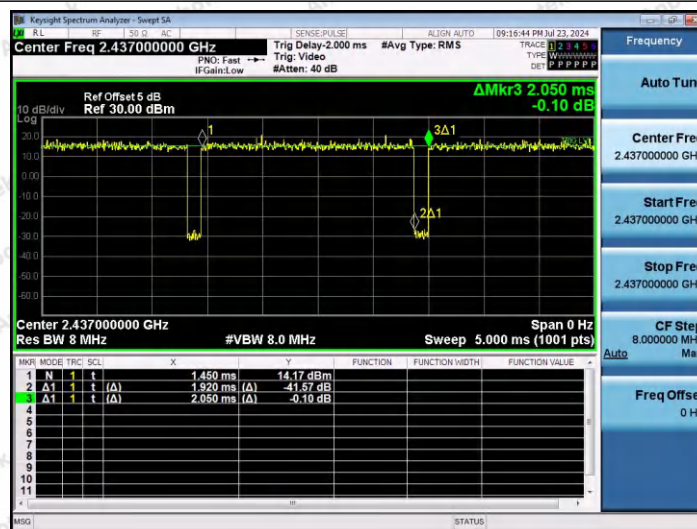


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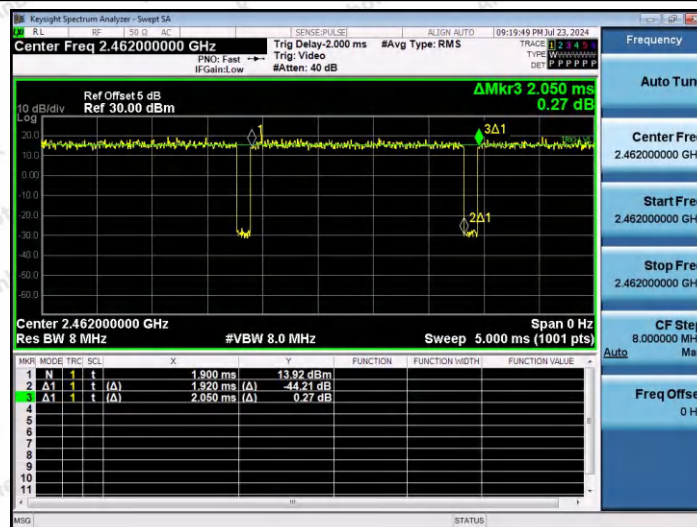




NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437



NTNV-11N20SISO-Ant1-2462

---End---

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