

Appendix Test Data

Report No.:	182512C400248102	Test Sample No.:	1-2-2
Start Test Date:	2024.7.01	Finish Test Date:	2024.7.01
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	10.040	2407.000	2417.040	0.5	PASS
11B	Ant1	2437	9.120	2432.440	2441.560	0.5	PASS
11B	Ant1	2462	9.560	2457.480	2467.040	0.5	PASS
11G	Ant1	2412	16.040	2404.120	2420.160	0.5	PASS
11G	Ant1	2437	15.080	2429.480	2444.560	0.5	PASS
11G	Ant1	2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.640	2403.200	2420.840	0.5	PASS
11N20SISO	Ant1	2437	17.640	2428.200	2445.840	0.5	PASS
11N20SISO	Ant1	2462	17.560	2453.240	2470.800	0.5	PASS



Test Graphs



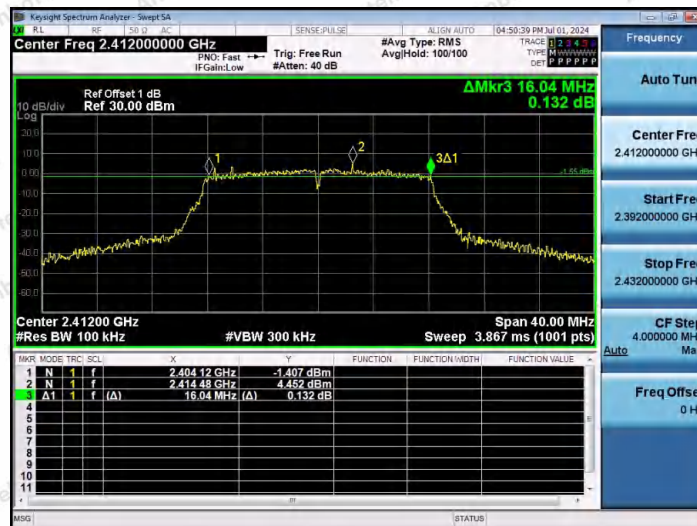
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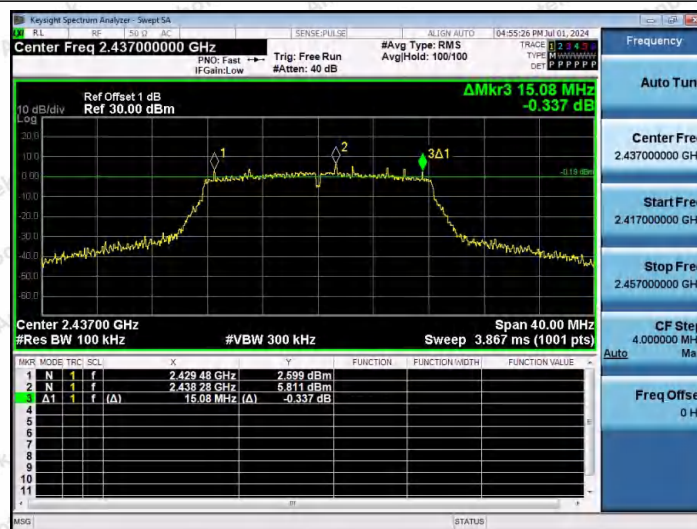


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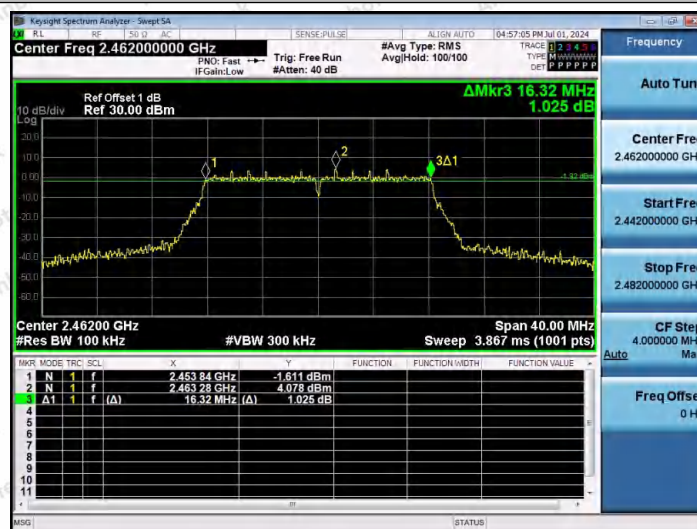




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

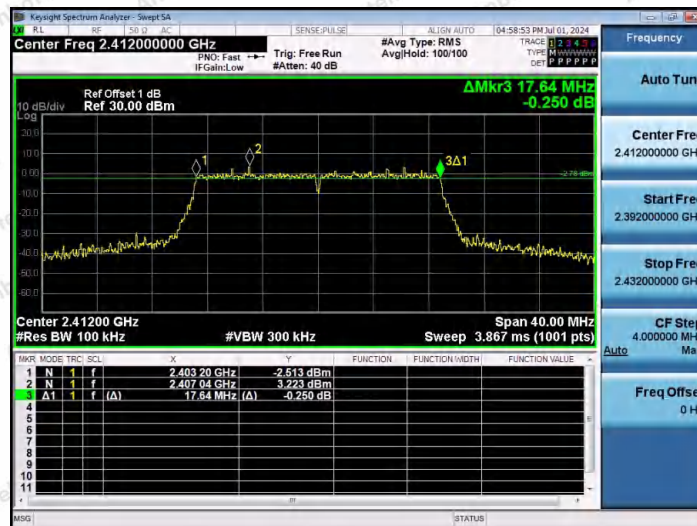
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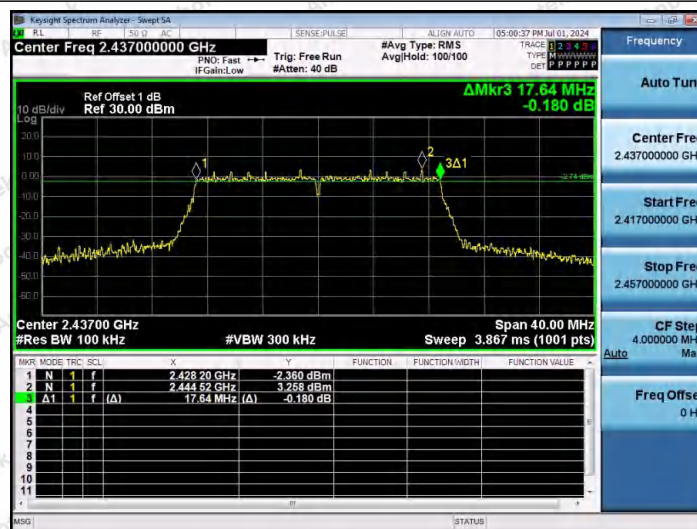


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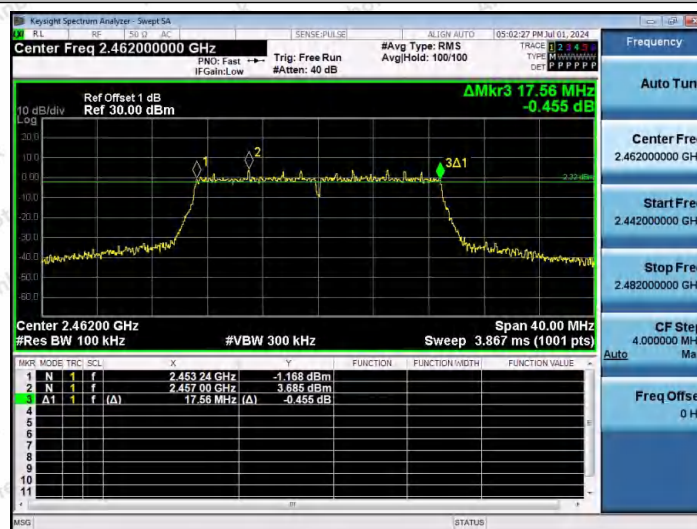




11N20SISO-Ant1-2412-PASS



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	13.256	2405.3739	2418.6299	---	---
11B	Ant1	2437	12.360	2430.8740	2443.2340	---	---
11B	Ant1	2462	12.574	2455.7613	2468.3353	---	---
11G	Ant1	2412	16.795	2403.6784	2420.4734	---	---
11G	Ant1	2437	16.778	2428.6514	2445.4294	---	---
11G	Ant1	2462	17.065	2453.4908	2470.5558	---	---
11N20SISO	Ant1	2412	18.000	2403.0585	2421.0585	---	---
11N20SISO	Ant1	2437	17.960	2428.0656	2446.0256	---	---
11N20SISO	Ant1	2462	17.966	2453.0758	2471.0418	---	---



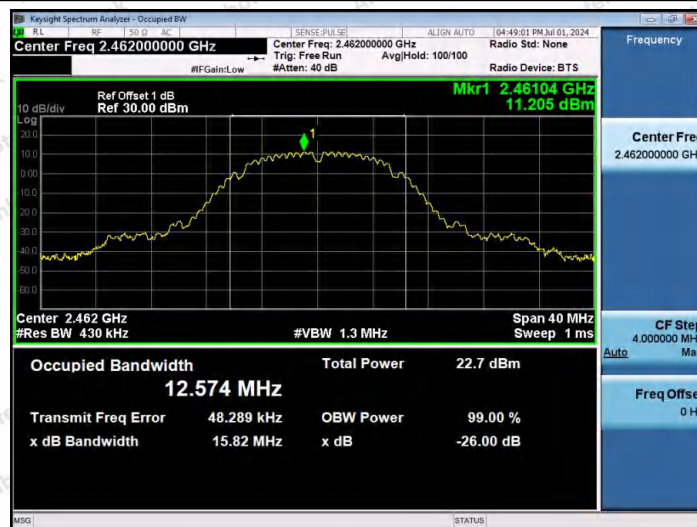
Test Graphs



11B-Ant1-2412



11B-Ant1-2437



11B-Ant1-2462

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11G-Ant1-2412



11G-Ant1-2437



11G-Ant1-2462

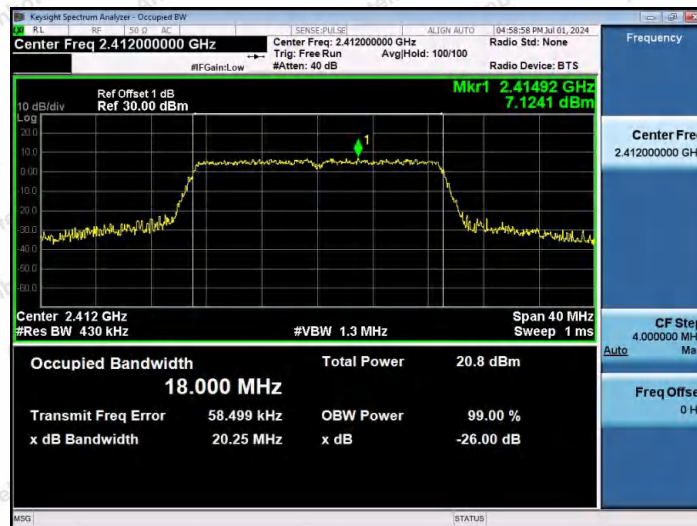
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11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



11N20SISO-Ant1-2462

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Appendix C: Maximum conducted output power

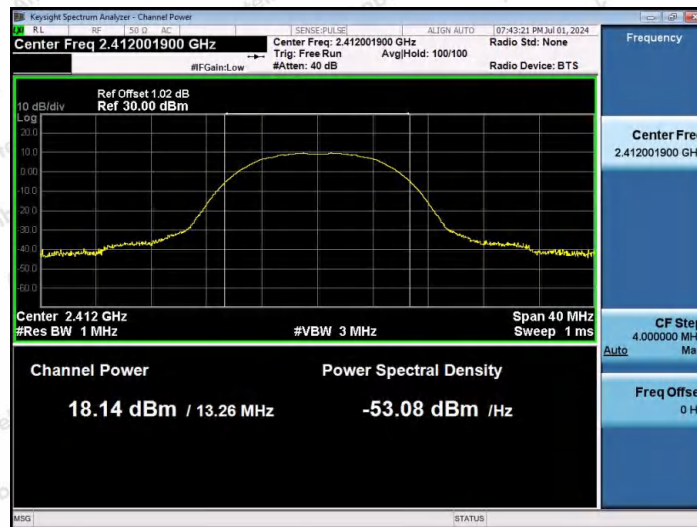
Test Result Average

Test Mode	Antenna	Frequency[MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	18.12	99.64	0.02	18.14	≤30.00	PASS
11B	Ant1	2437	17.96	99.53	0.02	17.98	≤30.00	PASS
11B	Ant1	2462	18.11	99.64	0.02	18.13	≤30.00	PASS
11G	Ant1	2412	19.30	97.20	0.12	19.42	≤30.00	PASS
11G	Ant1	2437	19.29	97.20	0.12	19.41	≤30.00	PASS
11G	Ant1	2462	19.47	97.90	0.09	19.56	≤30.00	PASS
11N20SISO	Ant1	2412	19.18	97.01	0.13	19.31	≤30.00	PASS
11N20SISO	Ant1	2437	19.22	97.74	0.10	19.32	≤30.00	PASS
11N20SISO	Ant1	2462	19.50	97.74	0.10	19.60	≤30.00	PASS

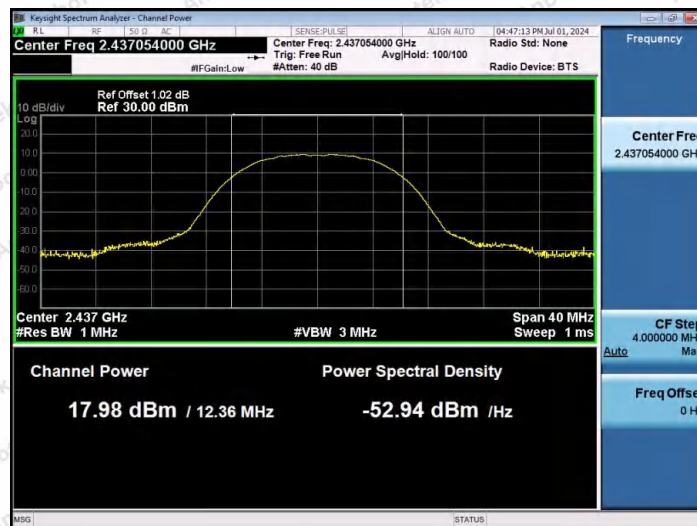
Note: The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.



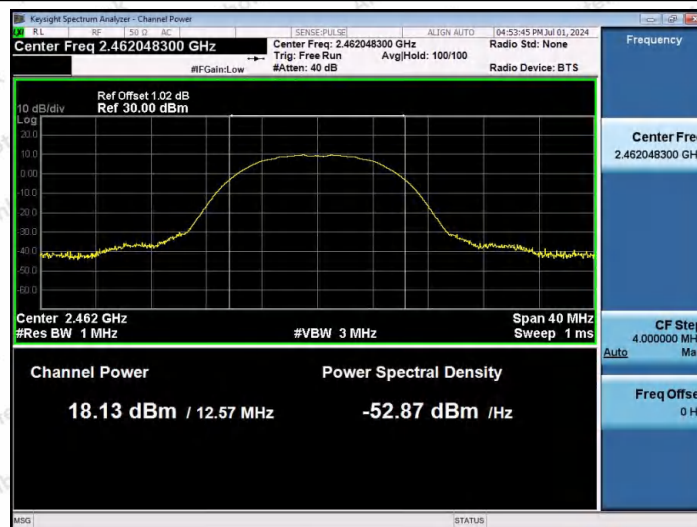
Test Graphs Average



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

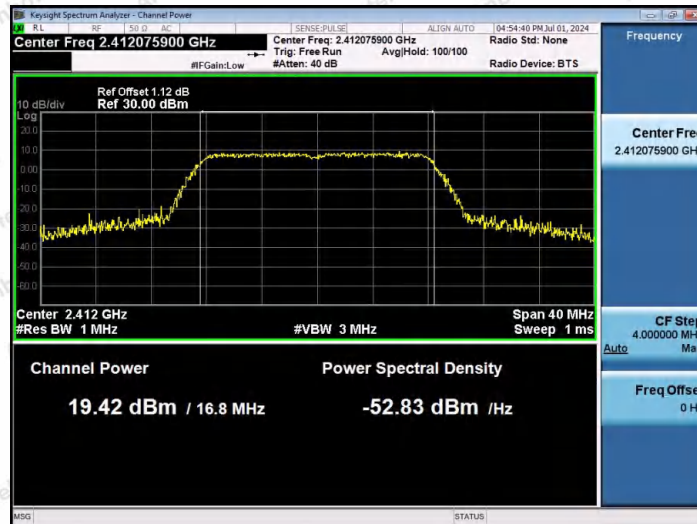
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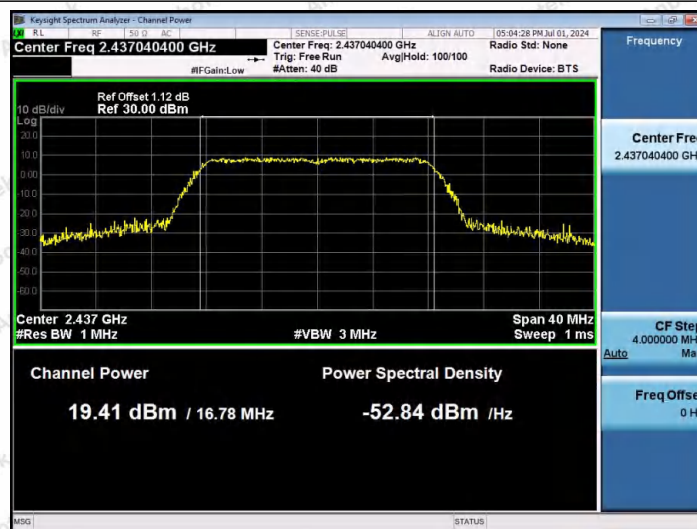


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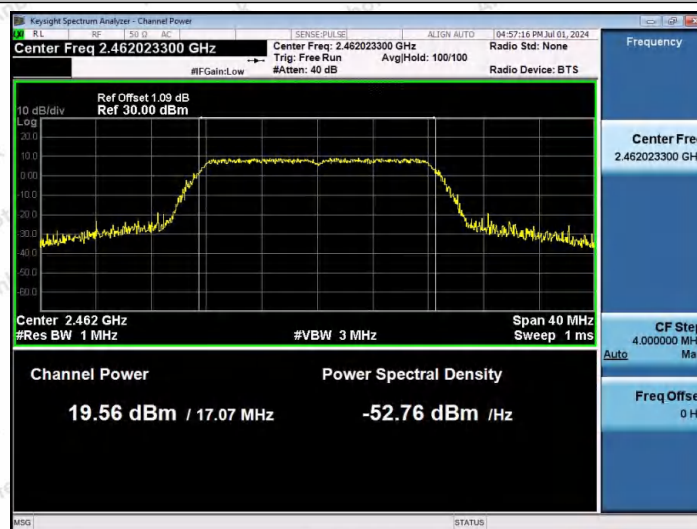




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

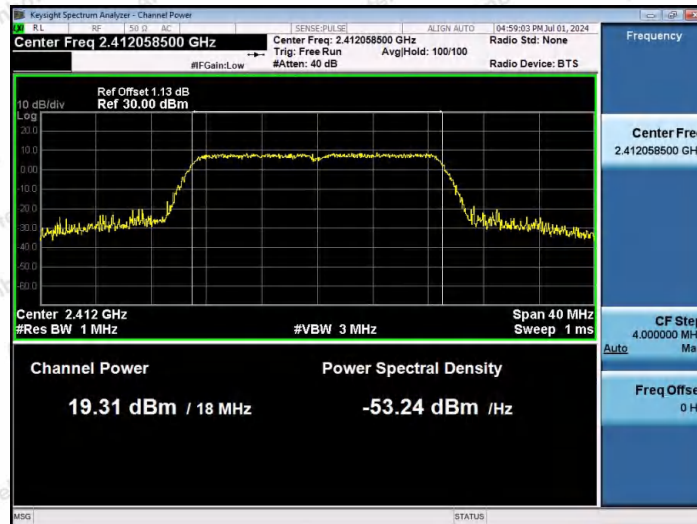
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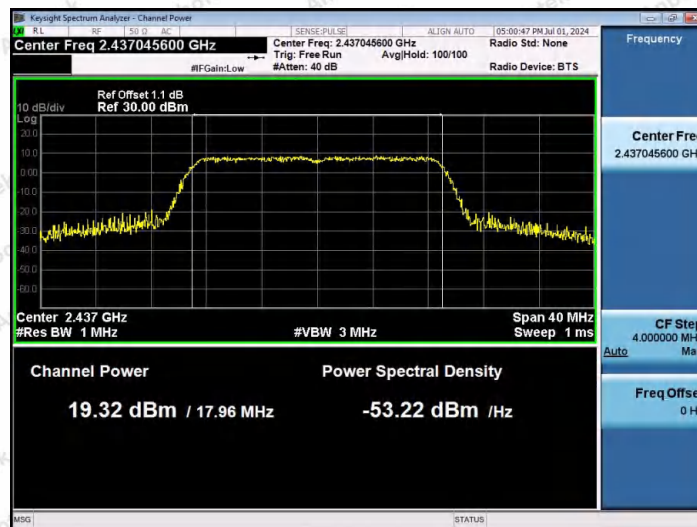


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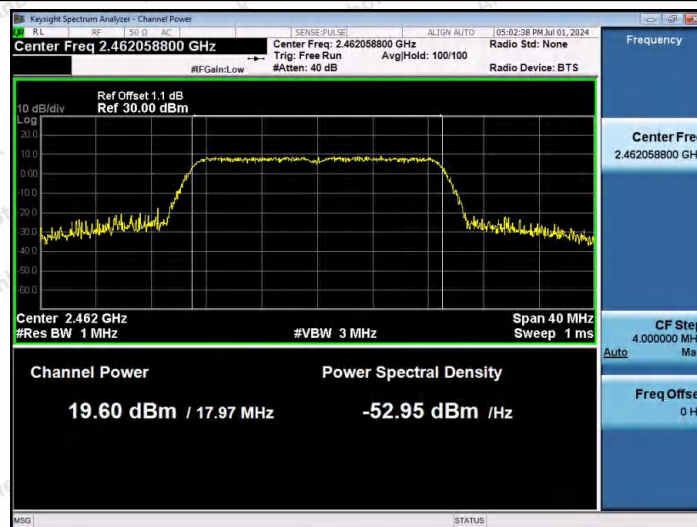




11N20SISO-Ant1-2412-PASS



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	-5.57	-15.57	≤8.00	PASS
11B	Ant1	2437	-5.33	-15.33	≤8.00	PASS
11B	Ant1	2462	-5.32	-15.32	≤8.00	PASS
11G	Ant1	2412	-9.27	-19.27	≤8.00	PASS
11G	Ant1	2437	-9.23	-19.23	≤8.00	PASS
11G	Ant1	2462	-9.34	-19.34	≤8.00	PASS
11N20SISO	Ant1	2412	-9.77	-19.77	≤8.00	PASS
11N20SISO	Ant1	2437	-9.80	-19.80	≤8.00	PASS
11N20SISO	Ant1	2462	-9.53	-19.53	≤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

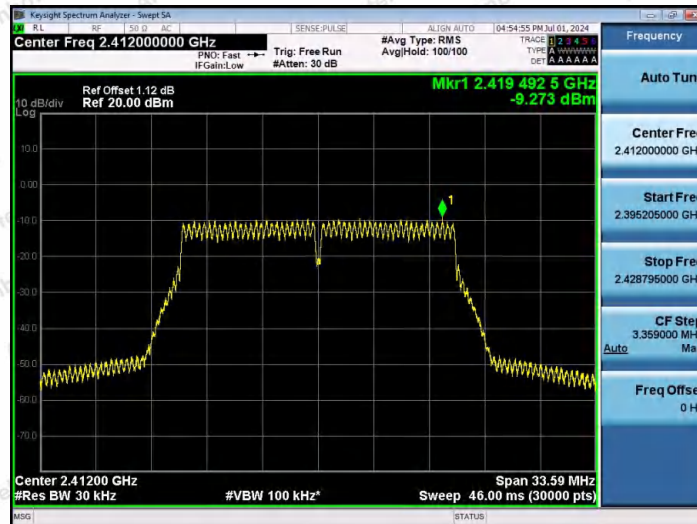
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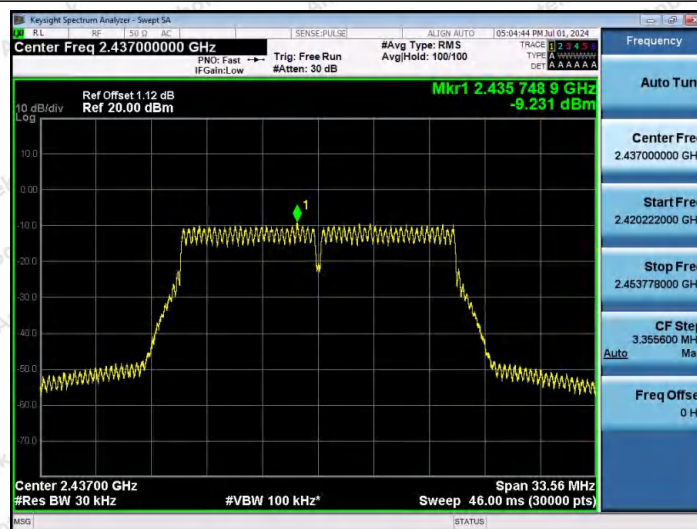


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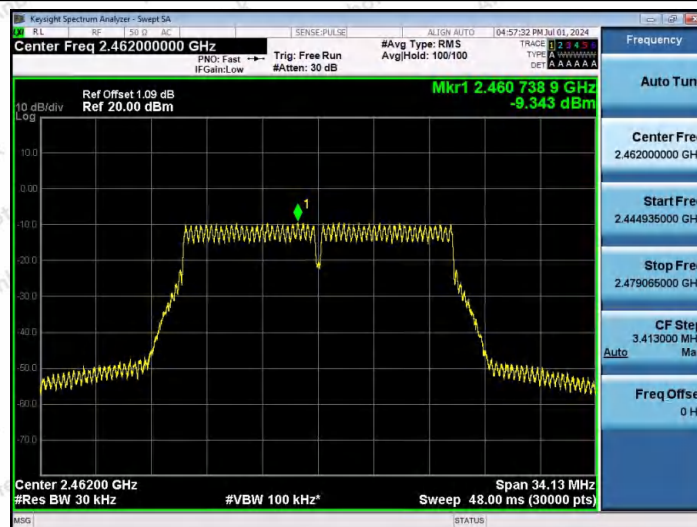




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



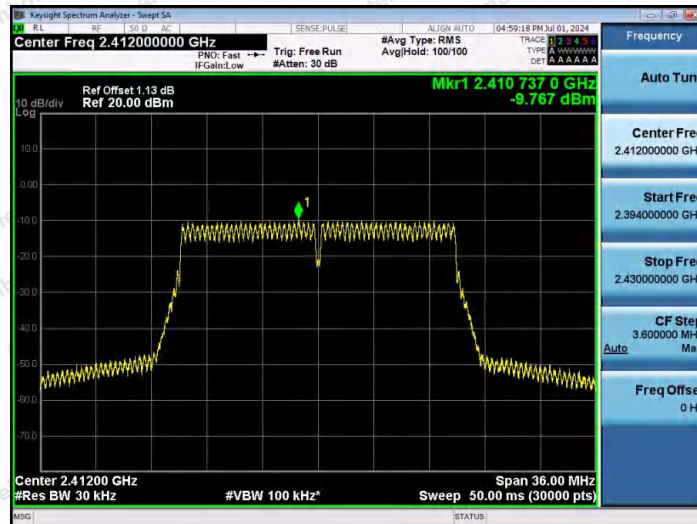
11G-Ant1-2462-PASS

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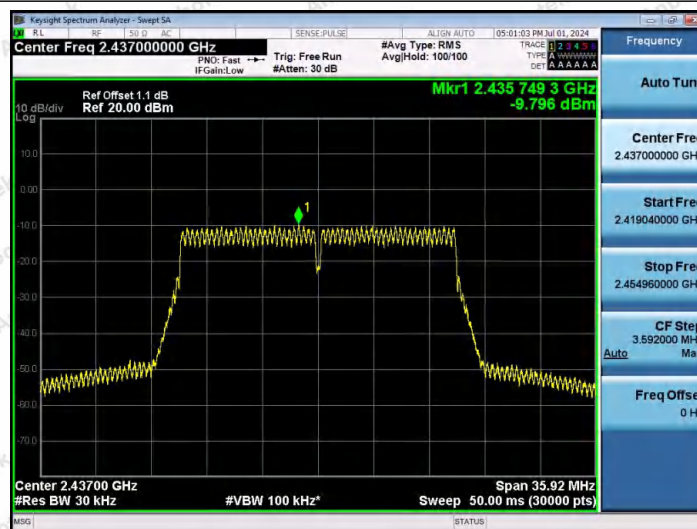
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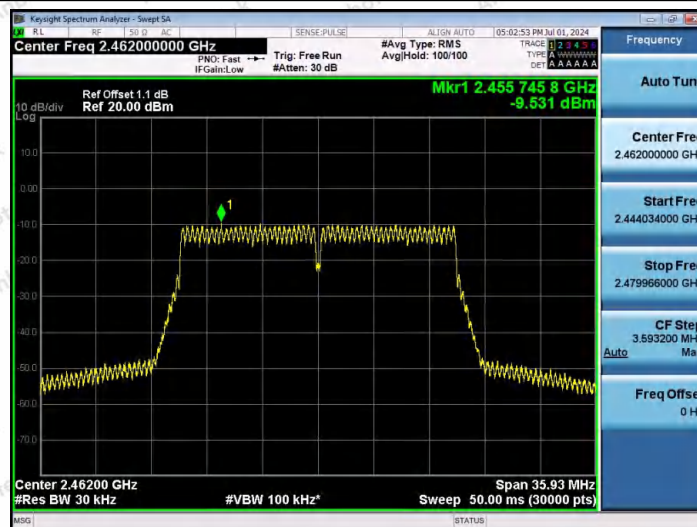




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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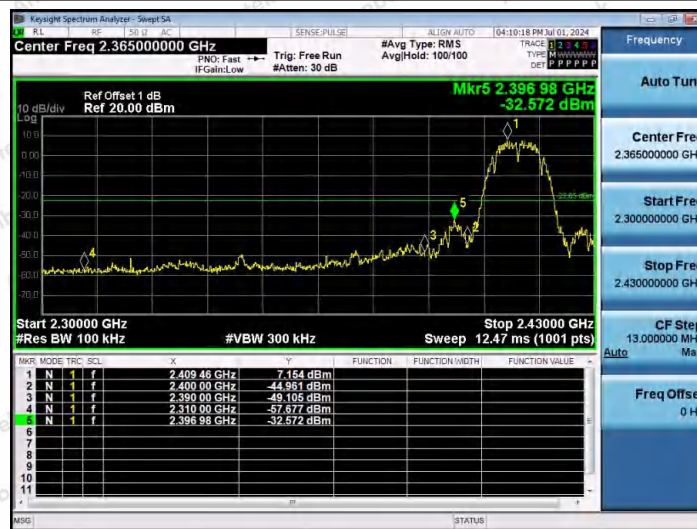
Appendix E: Conducted Band edge

Test Result

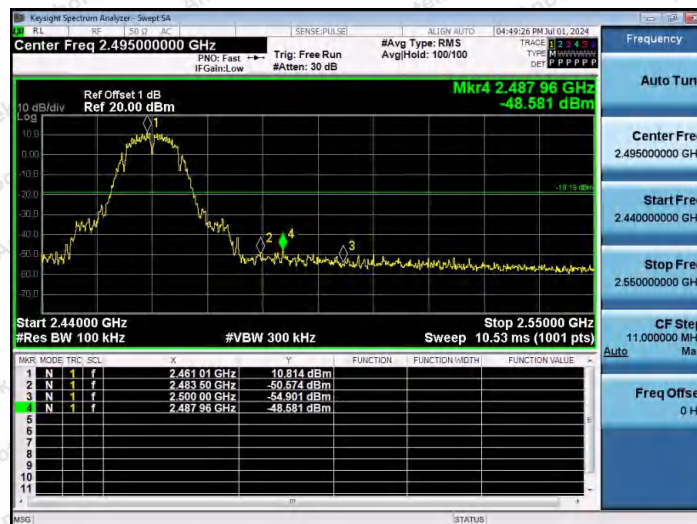
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.15	-32.57	≤-22.85	PASS
11B	Ant1	High	2462	10.81	-48.58	≤-19.19	PASS
11G	Ant1	Low	2412	4.36	-31.82	≤-25.64	PASS
11G	Ant1	High	2462	3.97	-46.19	≤-26.04	PASS
11N20SISO	Ant1	Low	2412	3.85	-32.42	≤-26.16	PASS
11N20SISO	Ant1	High	2462	3.79	-43.6	≤-26.22	PASS



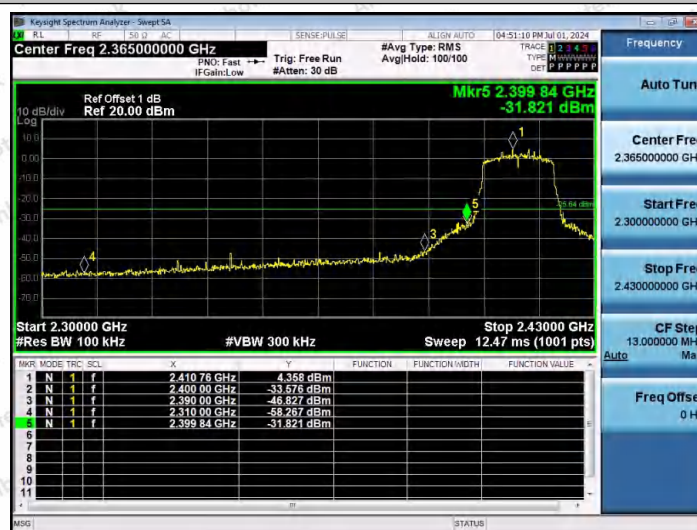
Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2462-PASS



11G-Ant1-2412-PASS

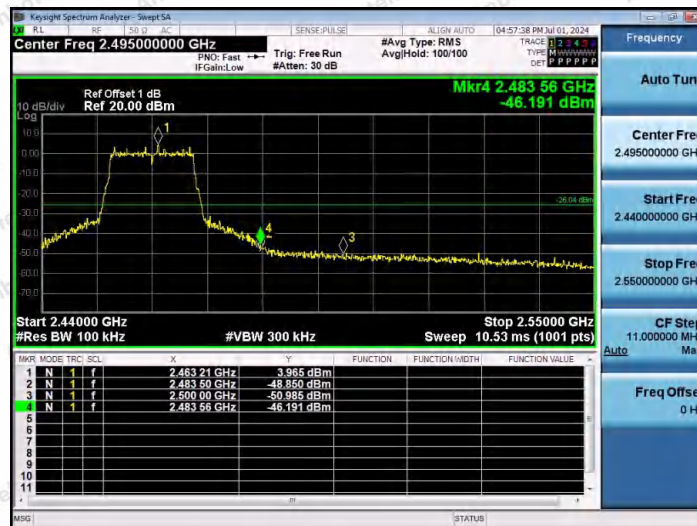
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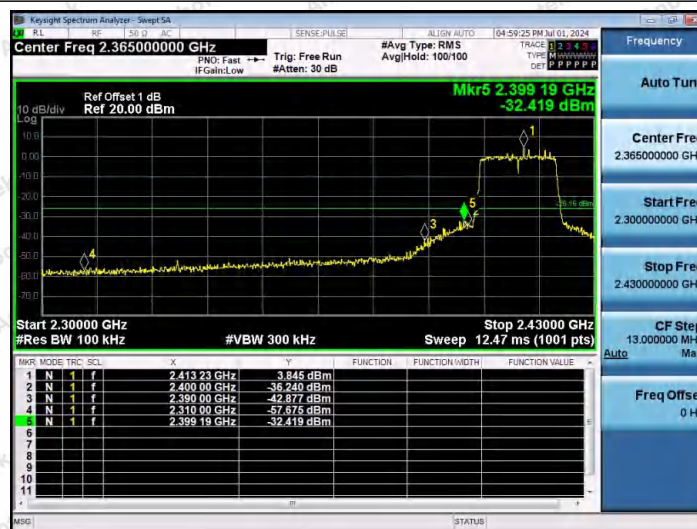


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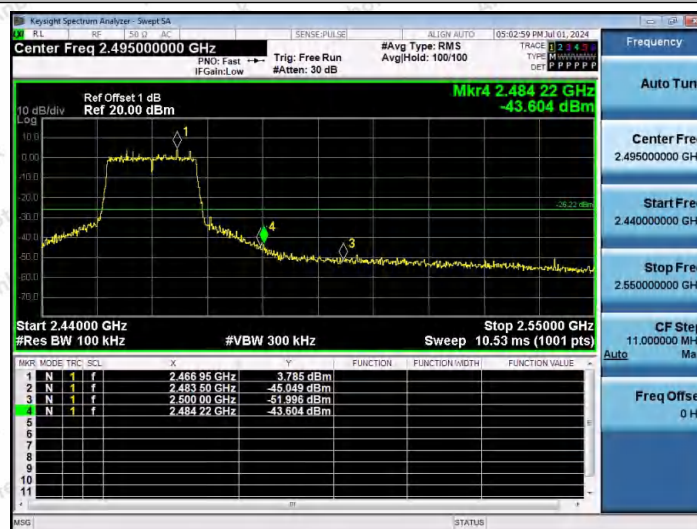




11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS

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Appendix F: Conducted Spurious Emission

Test Result

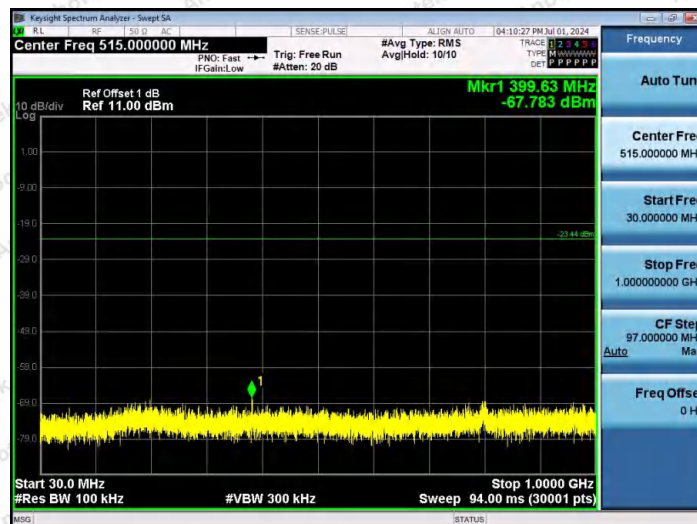
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	6.56	6.56	---	PASS
11B	Ant1	2412	30~1000	6.56	-67.78	≤-23.44	PASS
11B	Ant1	2412	1000~26500	6.56	-31.24	≤-23.44	PASS
11B	Ant1	2437	0~Reference	6.67	6.67	---	PASS
11B	Ant1	2437	30~1000	6.67	-68.14	≤-23.33	PASS
11B	Ant1	2437	1000~26500	6.67	-50.26	≤-23.33	PASS
11B	Ant1	2462	0~Reference	10.91	10.91	---	PASS
11B	Ant1	2462	30~1000	10.91	-68.03	≤-19.09	PASS
11B	Ant1	2462	1000~26500	10.91	-44.11	≤-19.09	PASS
11G	Ant1	2412	0~Reference	4.44	4.44	---	PASS
11G	Ant1	2412	30~1000	4.44	-68.4	≤-25.56	PASS
11G	Ant1	2412	1000~26500	4.44	-52.2	≤-25.56	PASS
11G	Ant1	2437	0~Reference	1.97	1.97	---	PASS
11G	Ant1	2437	30~1000	1.97	-68.14	≤-28.03	PASS
11G	Ant1	2437	1000~26500	1.97	-50.25	≤-28.03	PASS
11G	Ant1	2462	0~Reference	2.53	2.53	---	PASS
11G	Ant1	2462	30~1000	2.53	-68.62	≤-27.47	PASS
11G	Ant1	2462	1000~26500	2.53	-51.56	≤-27.47	PASS
11N20SISO	Ant1	2412	0~Reference	2.00	2.00	---	PASS
11N20SISO	Ant1	2412	30~1000	2.00	-68.14	≤-28	PASS
11N20SISO	Ant1	2412	1000~26500	2.00	-52.66	≤-28	PASS
11N20SISO	Ant1	2437	0~Reference	3.29	3.29	---	PASS
11N20SISO	Ant1	2437	30~1000	3.29	-68.62	≤-26.71	PASS
11N20SISO	Ant1	2437	1000~26500	3.29	-49.29	≤-26.71	PASS
11N20SISO	Ant1	2462	0~Reference	3.03	3.03	---	PASS
11N20SISO	Ant1	2462	30~1000	3.03	-68.58	≤-26.97	PASS
11N20SISO	Ant1	2462	1000~26500	3.03	-53.43	≤-26.97	PASS



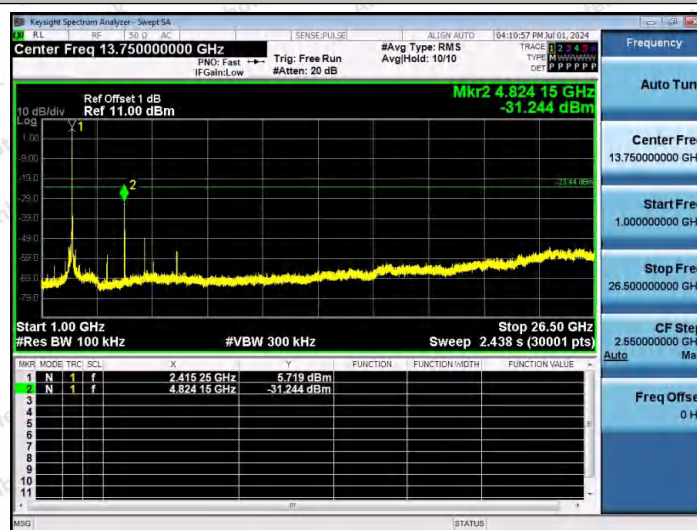
Test Graphs



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



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



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

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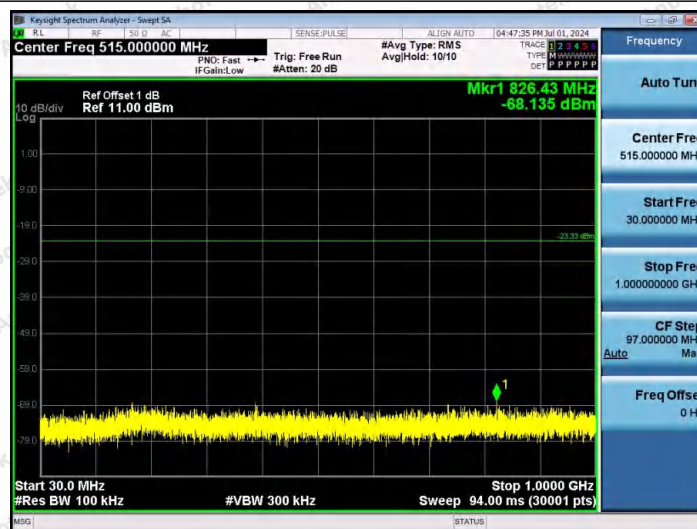


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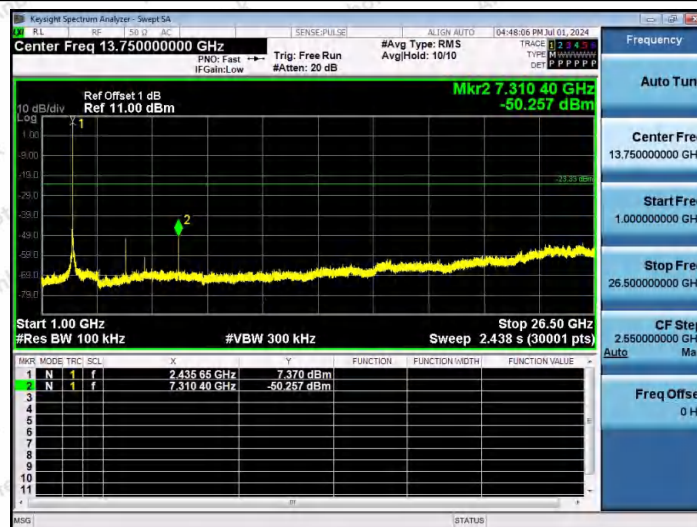




11B-Ant1-2437-0~Reference-PASS



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



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

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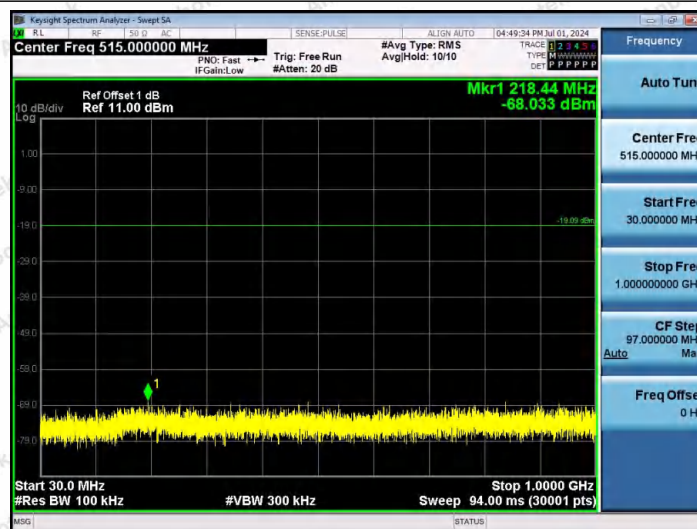


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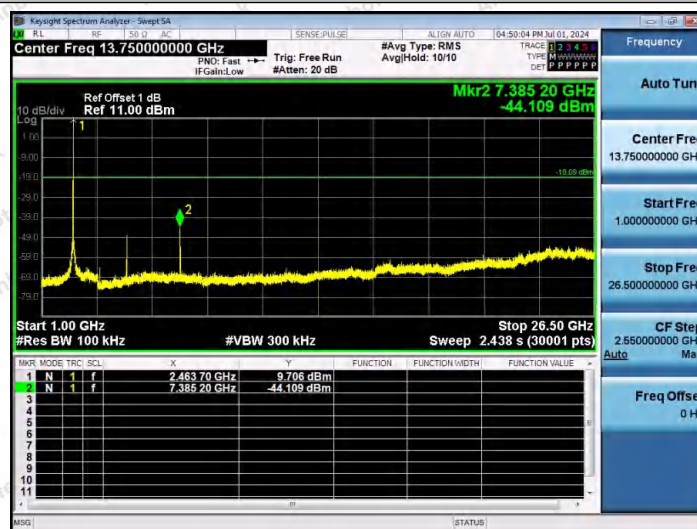




11B-Ant1-2462-0~Reference-PASS



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



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

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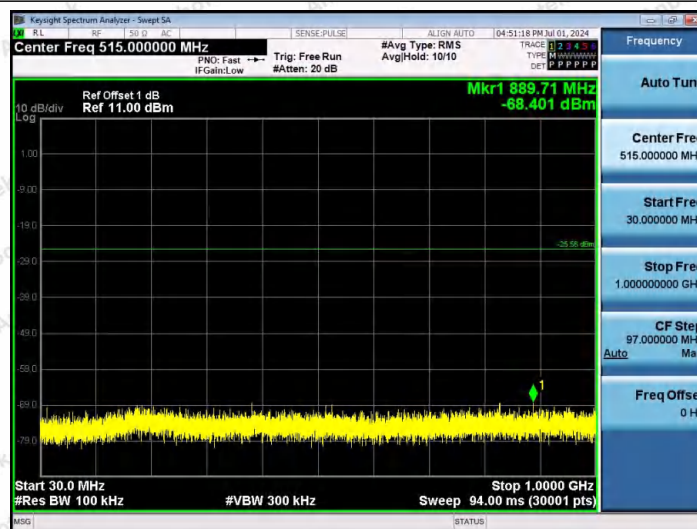


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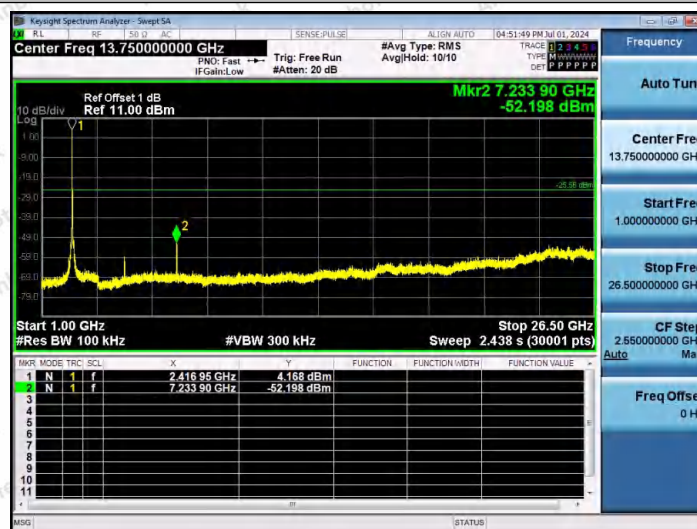




11G-Ant1-2412-0~Reference-PASS



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



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

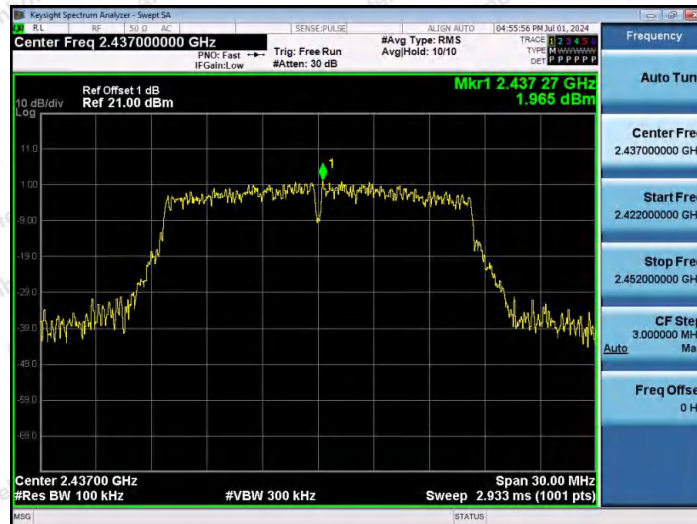
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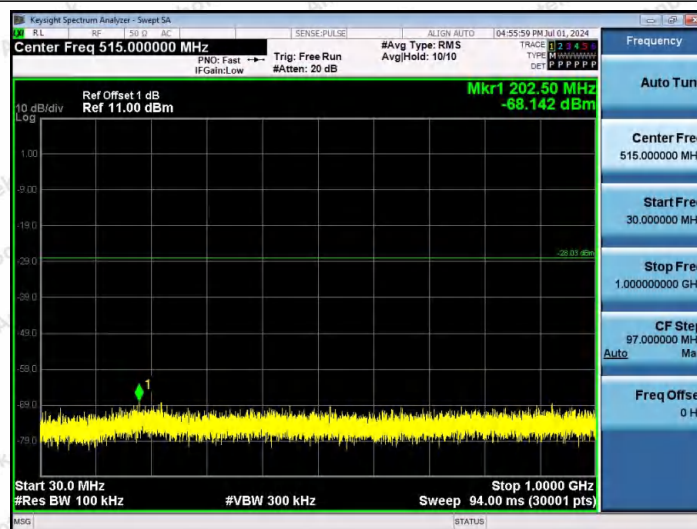


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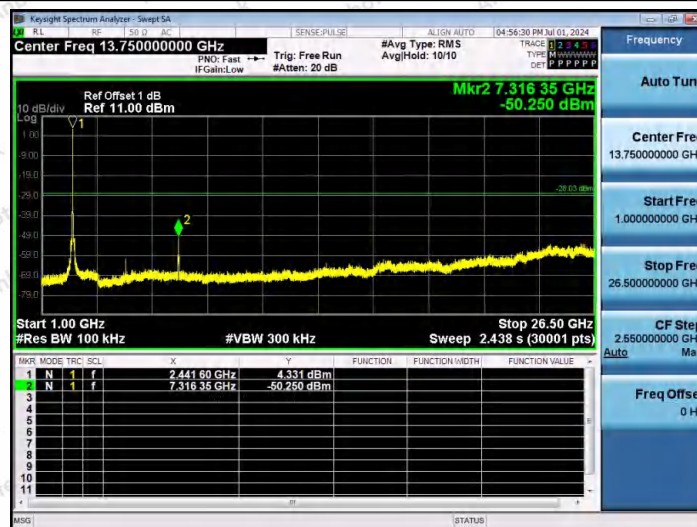




11G-Ant1-2437-0~Reference-PASS



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



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

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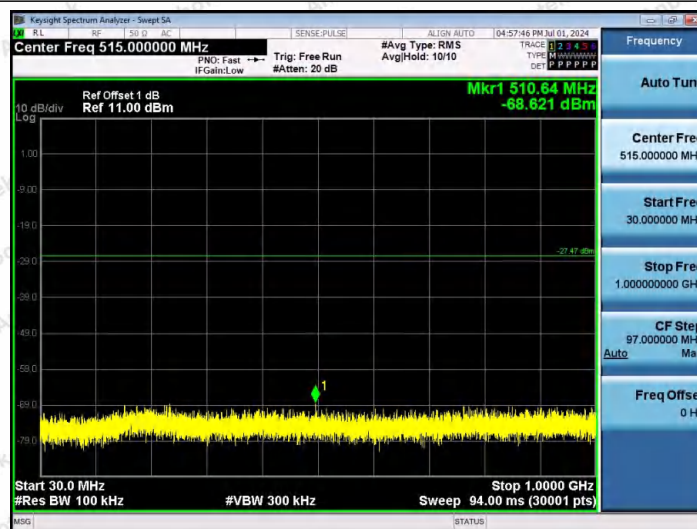


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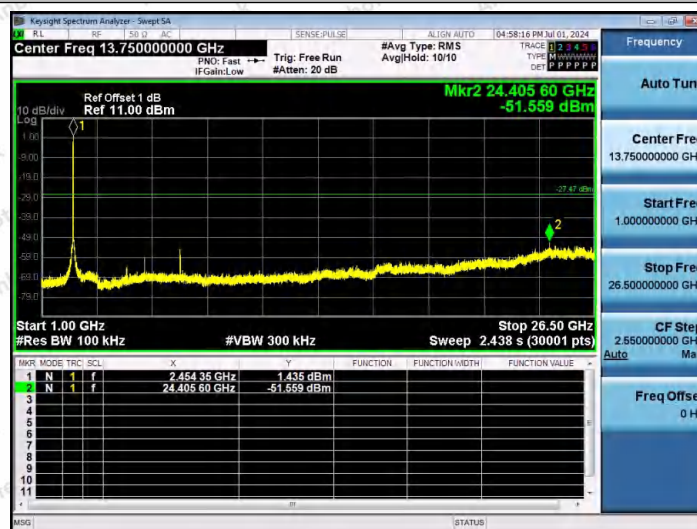




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11G-Ant1-2462-30~1000-PASS



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

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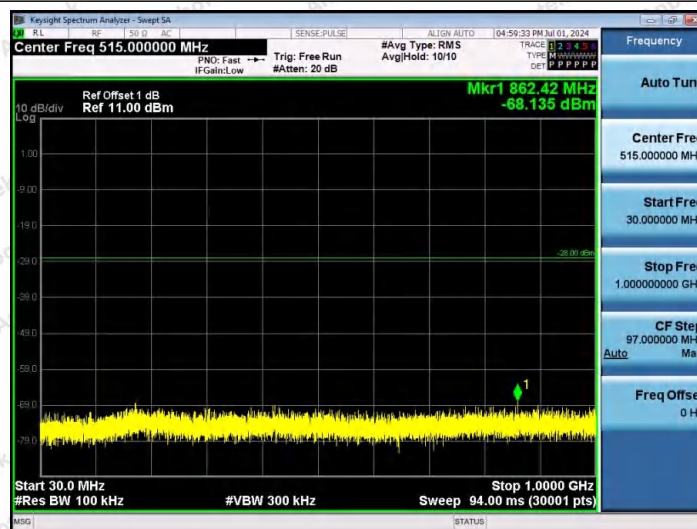


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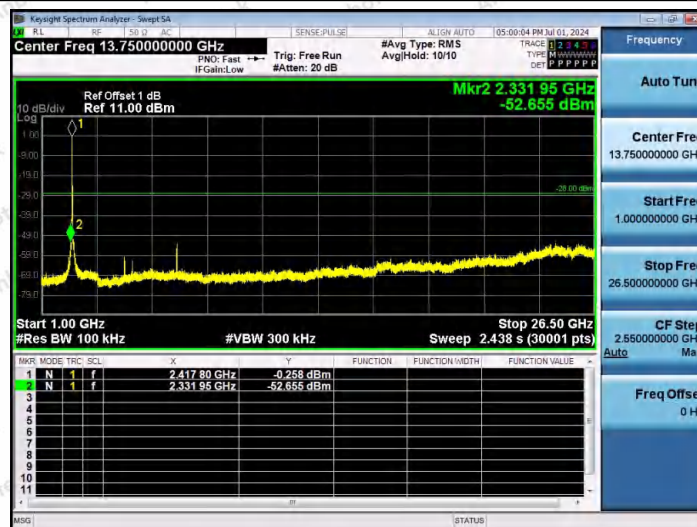




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11N20SISO-Ant1-2412-30~1000-PASS



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

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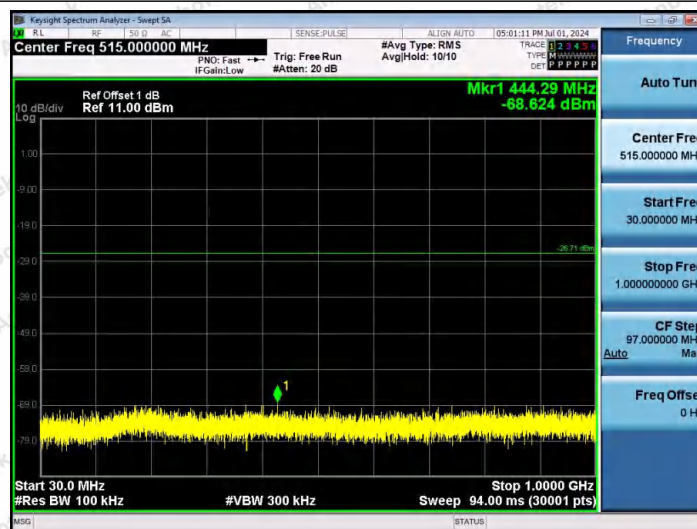


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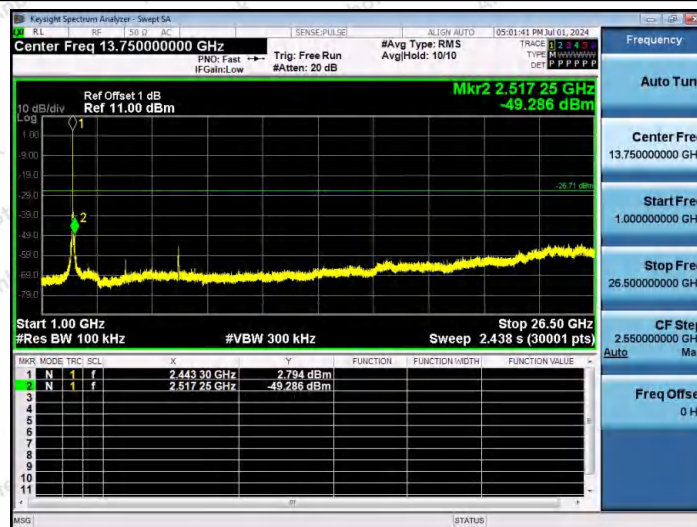




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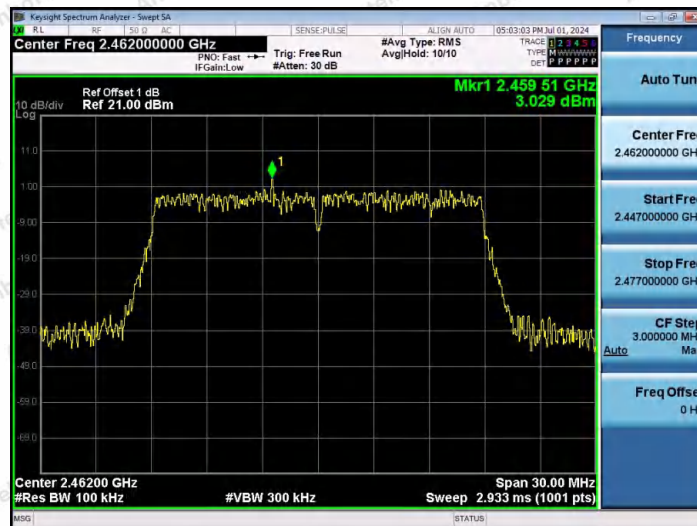
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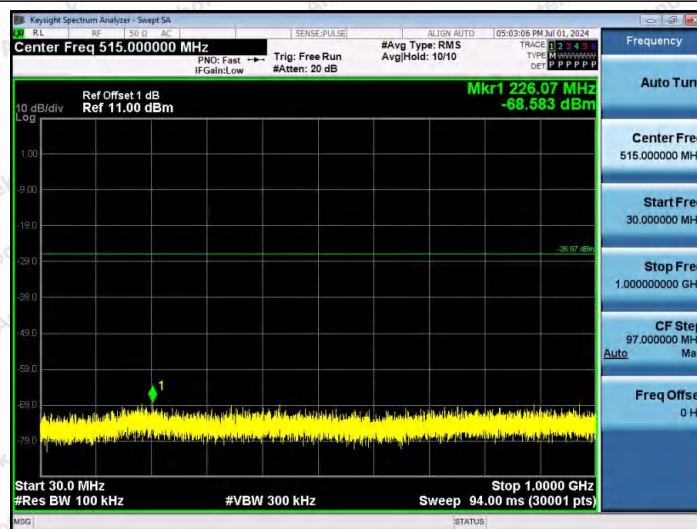


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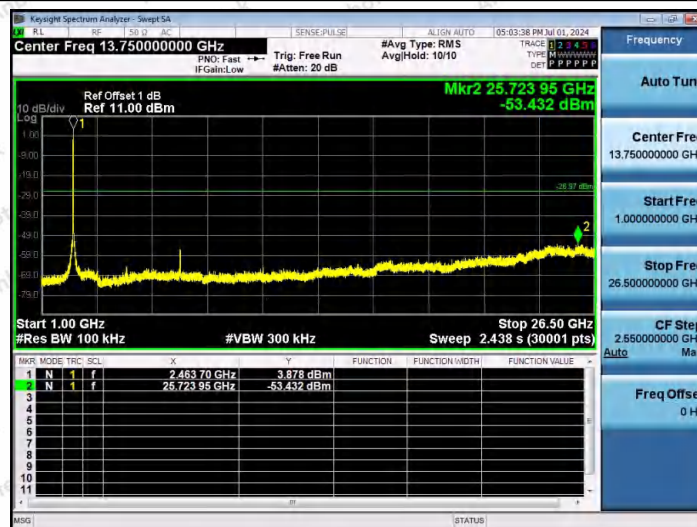




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11N20SISO-Ant1-2462-30~1000-PASS



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

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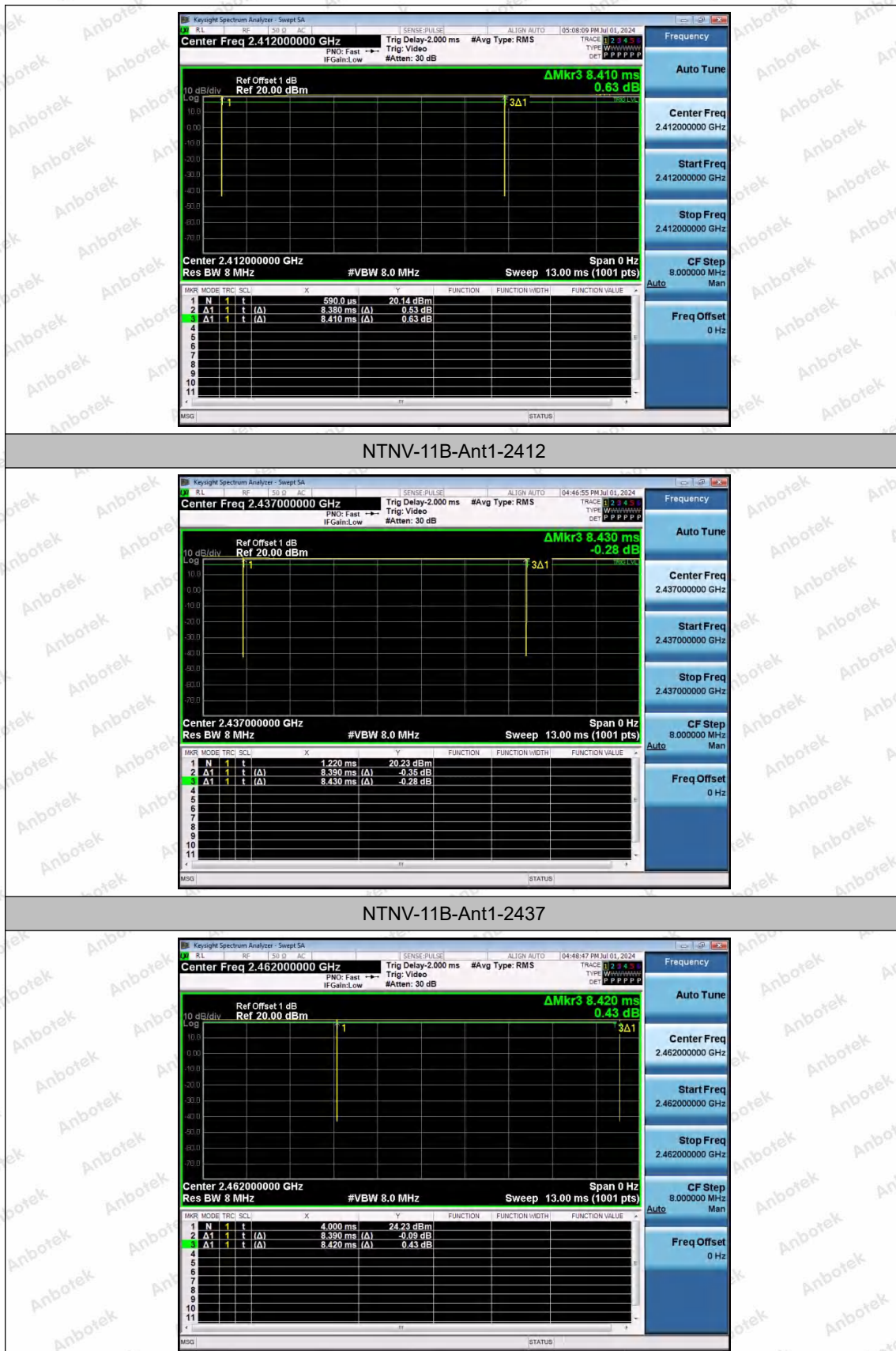
Appendix G: Duty Cycle

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	8.43	99.53	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	1.40	1.43	97.90	0.09
11N20SISO	Ant1	2412	1.30	1.34	97.01	0.13
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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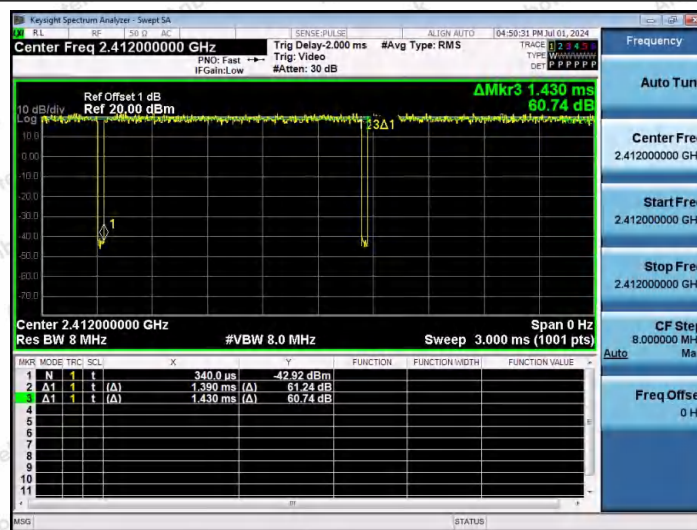
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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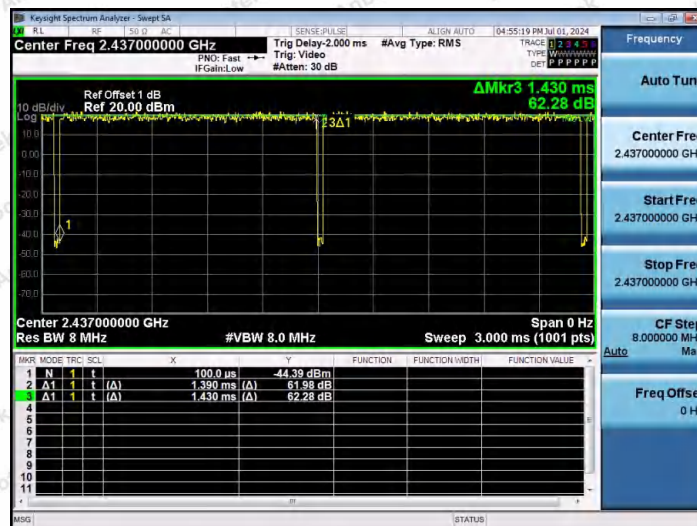
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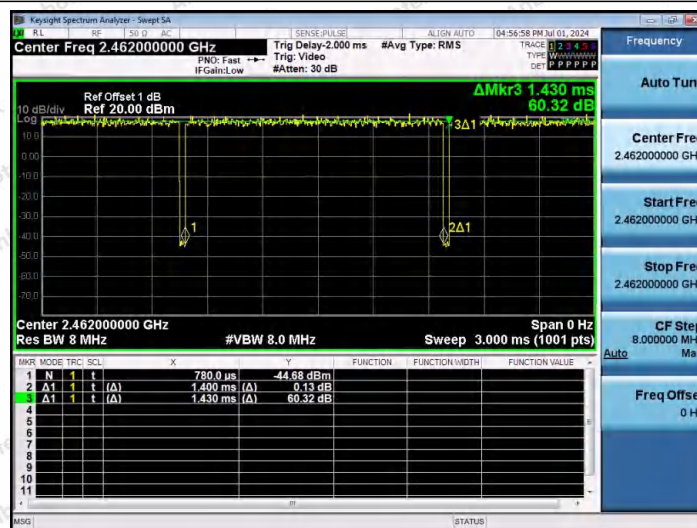
NTNV-11B-Ant1-2462



NTNV-11G-Ant1-2412



NTNV-11G-Ant1-2437



NTNV-11G-Ant1-2462

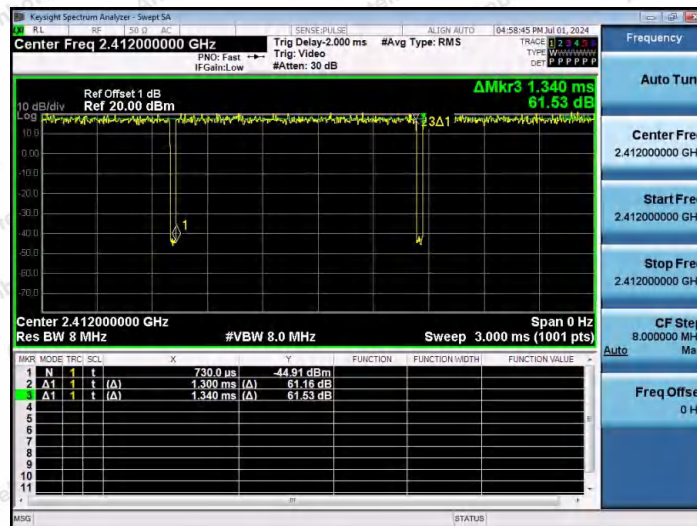
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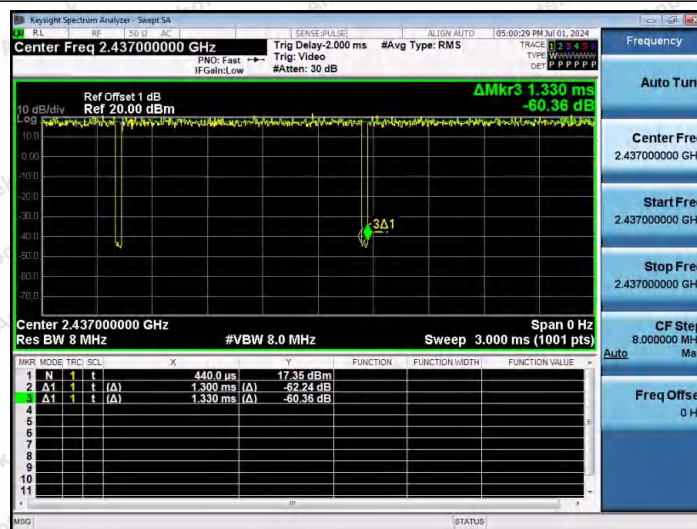


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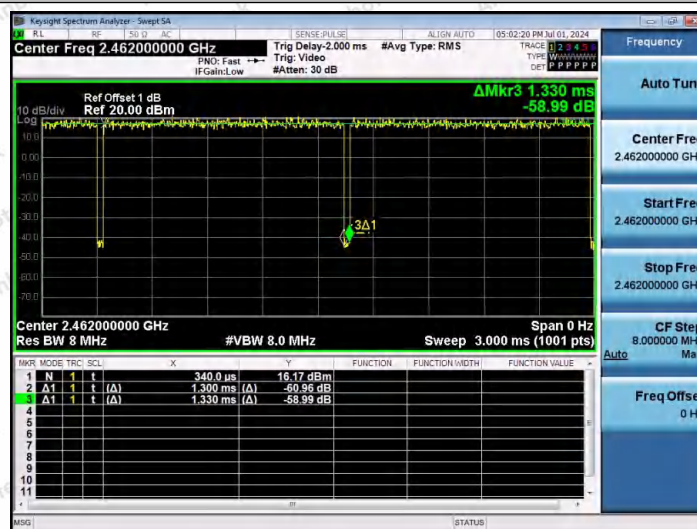




NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437



NTNV-11N20SISO-Ant1-2462

---End---

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