

Appendix Test Data

Report No.:	18220WC40072103	Test Sample No.:	1-2-2
Start Test Date:	2024.05.06	Finish Test Date:	2024.05.10
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25.3℃	Relative Humidity:	49%
Pressure:	101kPa		
Test module:	RTL8811		

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	2406.960	2417.000	0.5	PASS
11B	Ant1	2437	10.080	2431.960	2442.040	0.5	PASS
11B	Ant1	2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
11G	Ant1	2437	16.360	2428.840	2445.200	0.5	PASS
11G	Ant1	2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.520	2403.240	2420.760	0.5	PASS
11N20SISO	Ant1	2437	17.600	2428.200	2445.800	0.5	PASS
11N20SISO	Ant1	2462	16.760	2453.640	2470.400	0.5	PASS
11N40SISO	Ant1	2422	35.760	2403.840	2439.600	0.5	PASS
11N40SISO	Ant1	2437	35.680	2419.080	2454.760	0.5	PASS
11N40SISO	Ant1	2452	35.680	2433.920	2469.600	0.5	PASS



Test Graphs



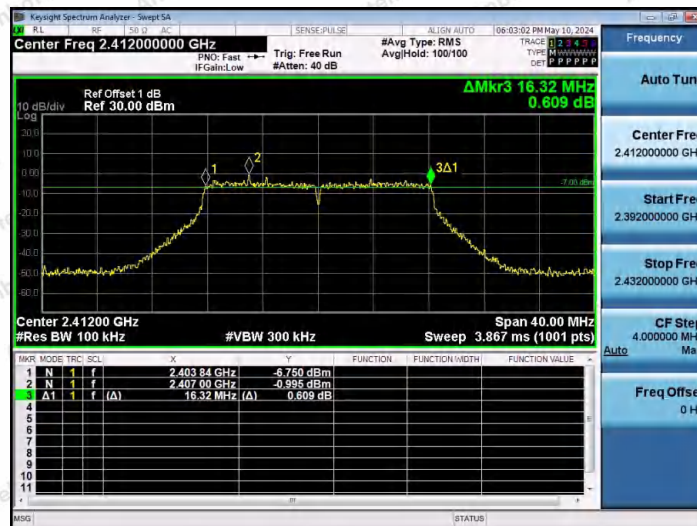
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

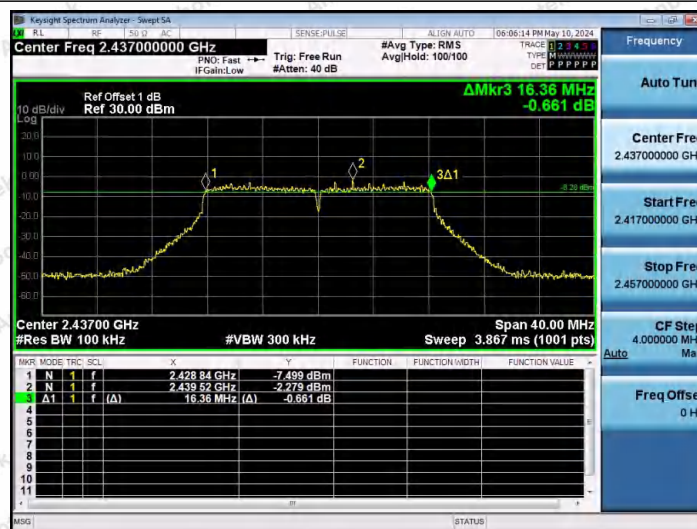


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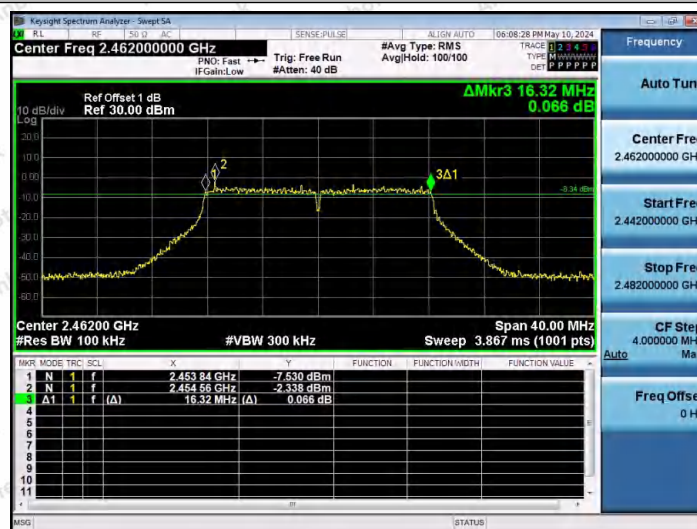




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



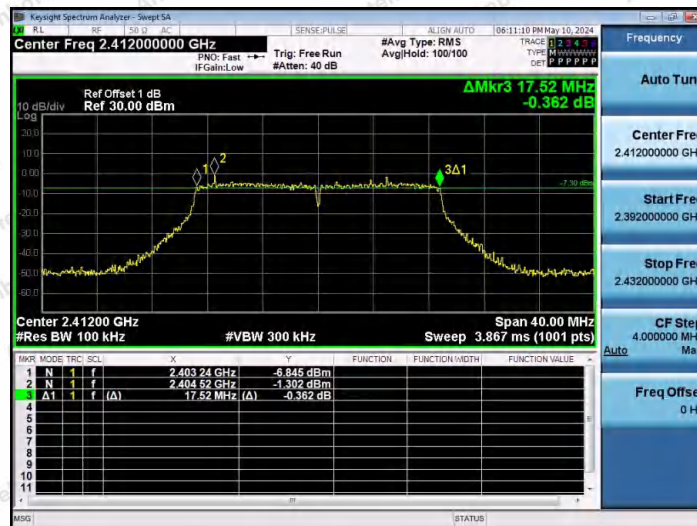
11G-Ant1-2462-PASS

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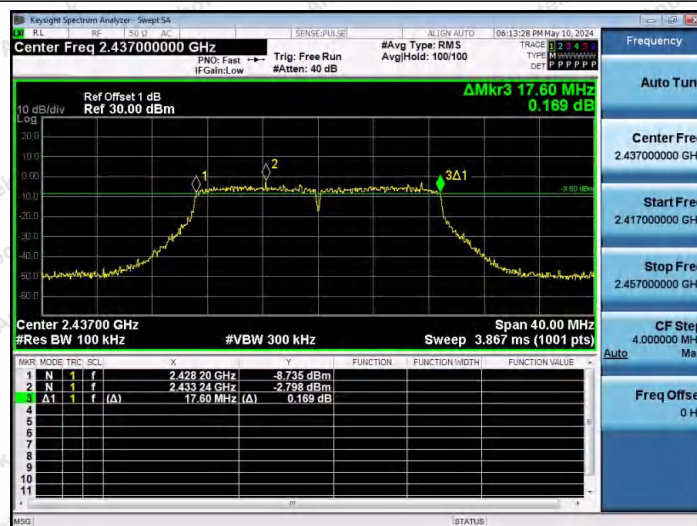
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11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

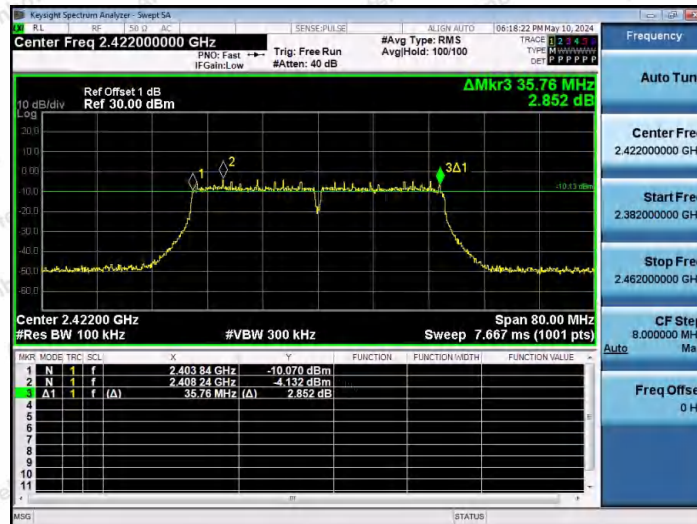
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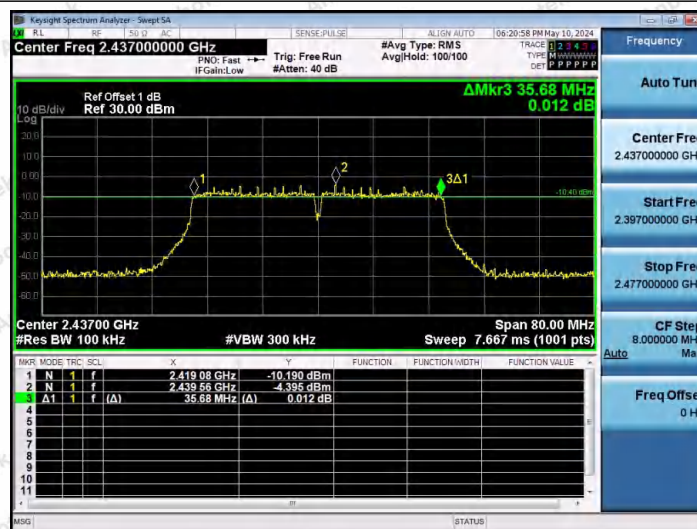


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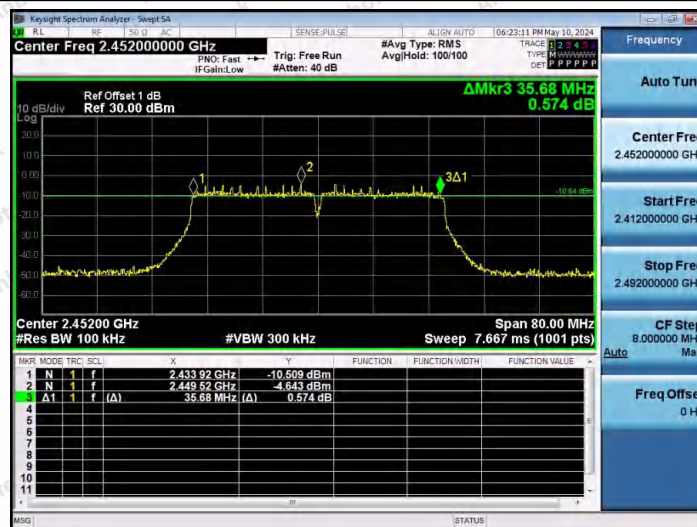




11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-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	15.075	2404.4707	2419.5457	---	---
11B	Ant1	2437	15.078	2429.4723	2444.5503	---	---
11B	Ant1	2462	15.074	2454.4790	2469.5530	---	---
11G	Ant1	2412	17.073	2403.5384	2420.6114	---	---
11G	Ant1	2437	17.002	2428.5750	2445.5770	---	---
11G	Ant1	2462	17.063	2453.5662	2470.6292	---	---
11N20SISO	Ant1	2412	18.029	2402.9478	2420.9768	---	---
11N20SISO	Ant1	2437	18.012	2427.9649	2445.9769	---	---
11N20SISO	Ant1	2462	18.025	2452.9544	2470.9794	---	---
11N40SISO	Ant1	2422	36.481	2403.7705	2440.2515	---	---
11N40SISO	Ant1	2437	36.547	2418.7108	2455.2578	---	---
11N40SISO	Ant1	2452	36.500	2433.7456	2470.2456	---	---



Test Graphs



11B-Ant1-2412



11B-Ant1-2437



11B-Ant1-2462

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11G-Ant1-2412



11G-Ant1-2437



11G-Ant1-2462

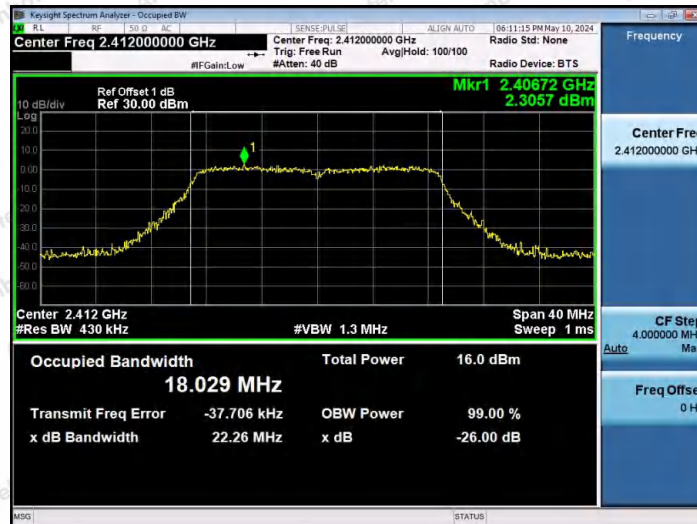
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11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



11N20SISO-Ant1-2462

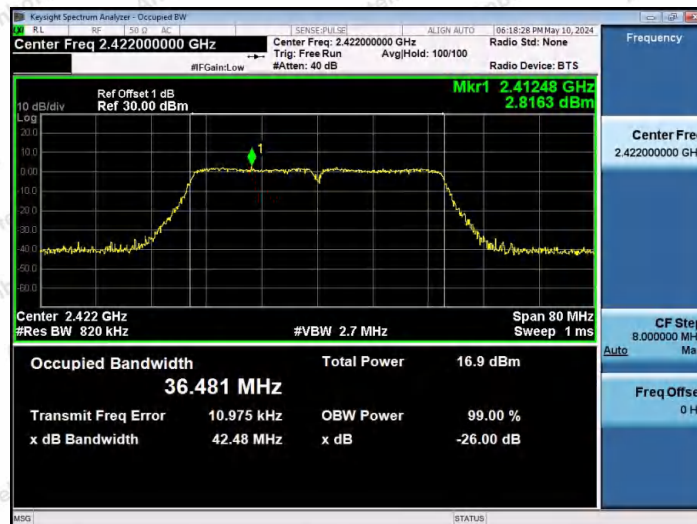
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11N40SISO-Ant1-2422



11N40SISO-Ant1-2437



11N40SISO-Ant1-2452

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Appendix C: Maximum conducted output power

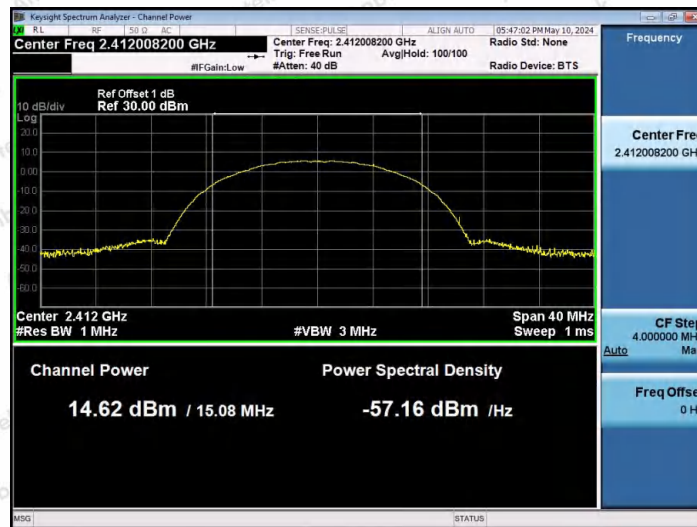
Test Result Average

Test Mode	Antenna	Frequency[MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.62	100.00	0.00	14.62	≤30.00	PASS
11B	Ant1	2437	14.12	99.52	0.02	14.14	≤30.00	PASS
11B	Ant1	2462	13.70	100.00	0.00	13.70	≤30.00	PASS
11G	Ant1	2412	14.48	95.37	0.21	14.69	≤30.00	PASS
11G	Ant1	2437	13.90	92.79	0.32	14.22	≤30.00	PASS
11G	Ant1	2462	13.60	93.67	0.28	13.88	≤30.00	PASS
11N20SISO	Ant1	2412	14.49	92.31	0.35	14.84	≤30.00	PASS
11N20SISO	Ant1	2437	13.92	94.12	0.26	14.18	≤30.00	PASS
11N20SISO	Ant1	2462	13.51	92.31	0.35	13.86	≤30.00	PASS
11N40SISO	Ant1	2422	14.51	87.85	0.56	15.07	≤30.00	PASS
11N40SISO	Ant1	2437	14.16	87.04	0.60	14.76	≤30.00	PASS
11N40SISO	Ant1	2452	13.87	84.68	0.72	14.59	≤30.00	PASS

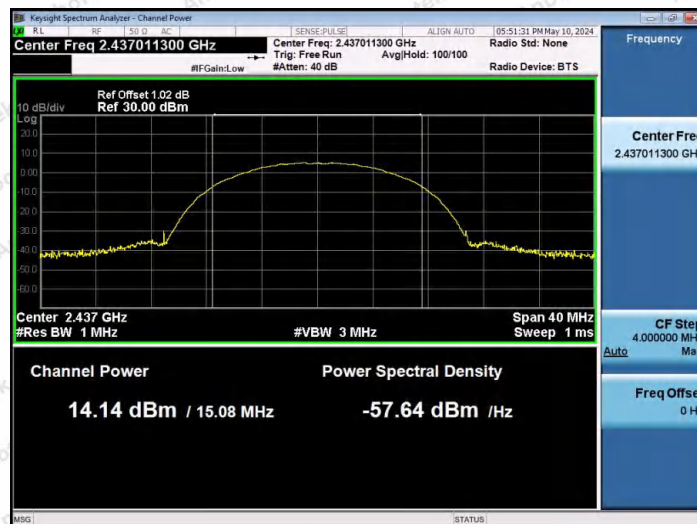
Note: The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.



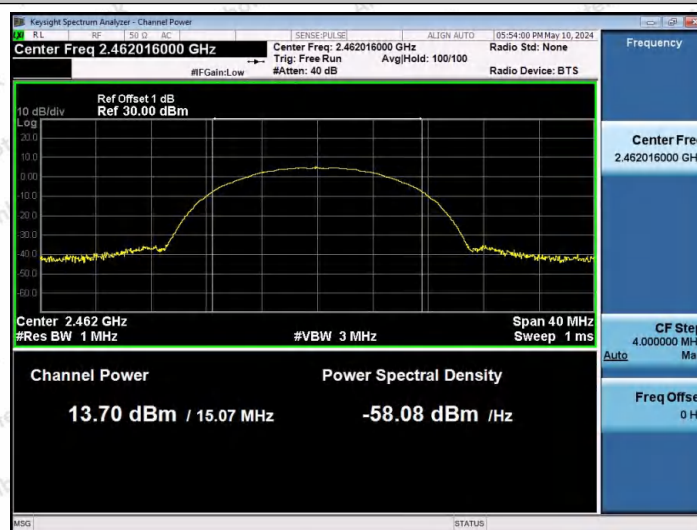
Test Graphs Average



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

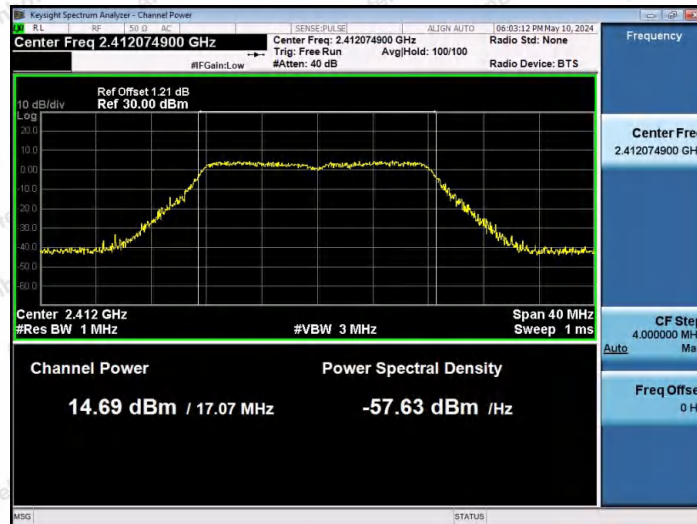
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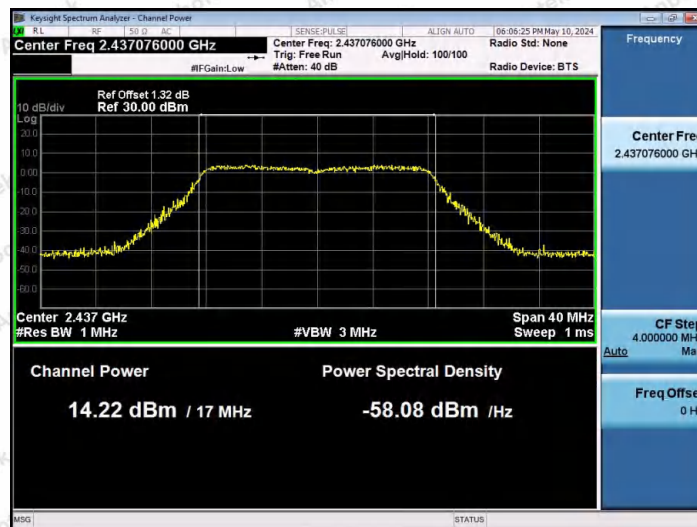


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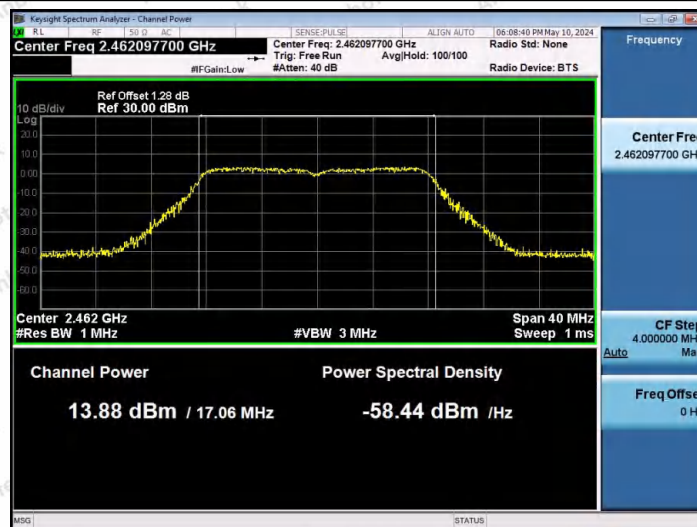




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

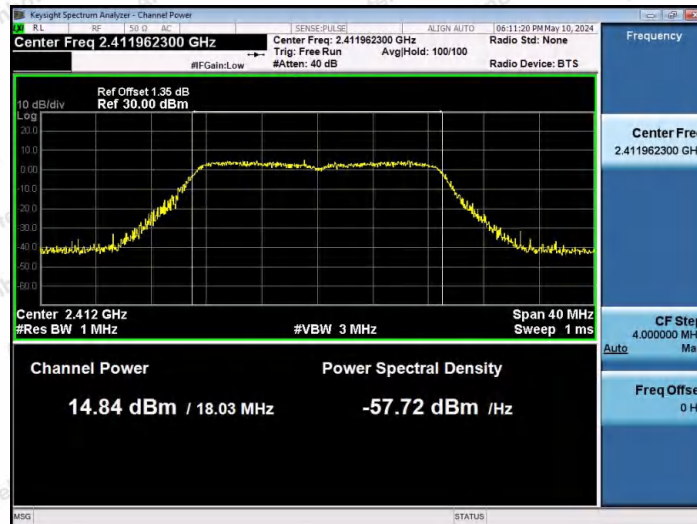
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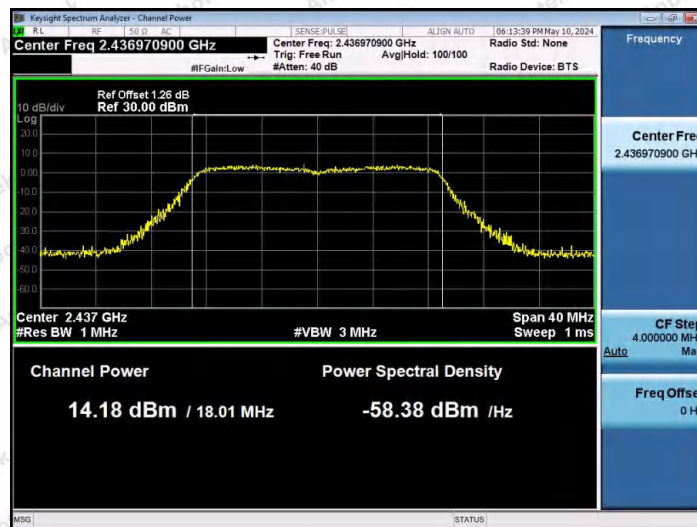


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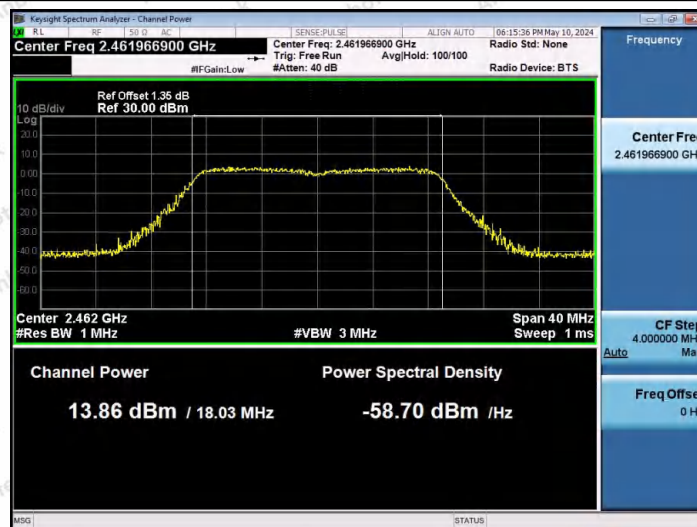




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

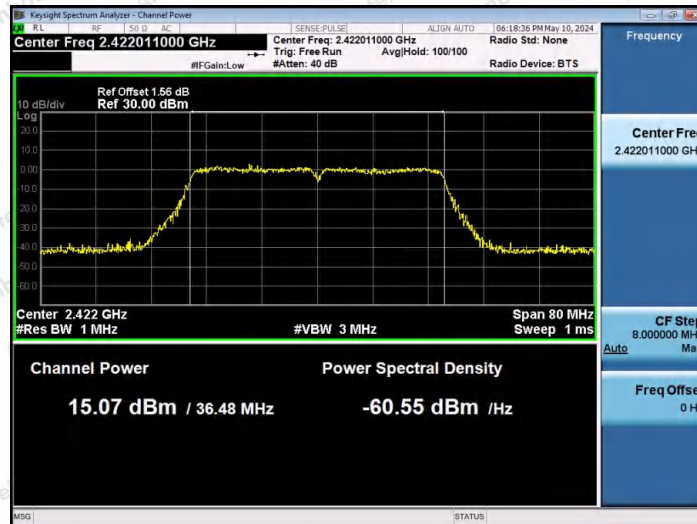
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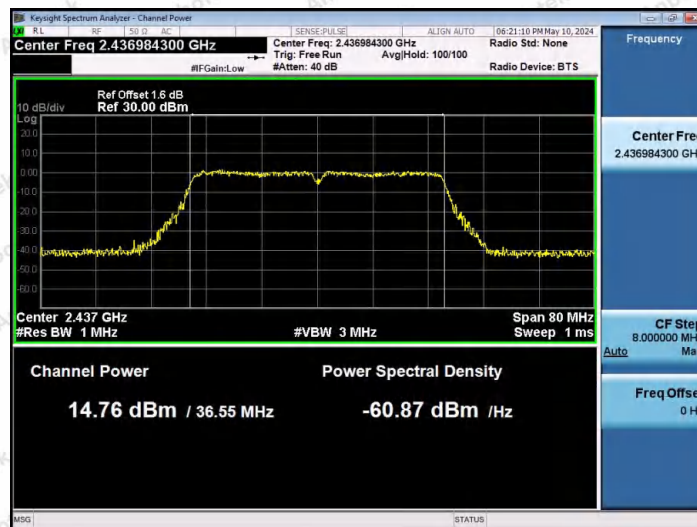


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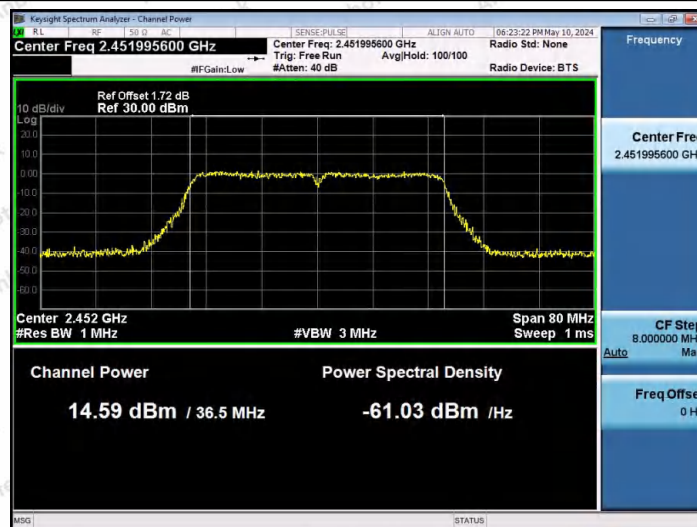




11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-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	-9.48	-19.48	≤8.00	PASS
11B	Ant1	2437	-9.85	-19.85	≤8.00	PASS
11B	Ant1	2462	-10.21	-20.21	≤8.00	PASS
11G	Ant1	2412	-13.76	-23.76	≤8.00	PASS
11G	Ant1	2437	-14.26	-24.26	≤8.00	PASS
11G	Ant1	2462	-14.61	-24.61	≤8.00	PASS
11N20SIS O	Ant1	2412	-14.08	-24.08	≤8.00	PASS
11N20SIS O	Ant1	2437	-14.71	-24.71	≤8.00	PASS
11N20SIS O	Ant1	2462	-14.39	-24.39	≤8.00	PASS
11N40SIS O	Ant1	2422	-16.68	-26.68	≤8.00	PASS
11N40SIS O	Ant1	2437	-16.80	-26.80	≤8.00	PASS
11N40SIS O	Ant1	2452	-17.13	-27.13	≤8.00	PASS

Note:

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



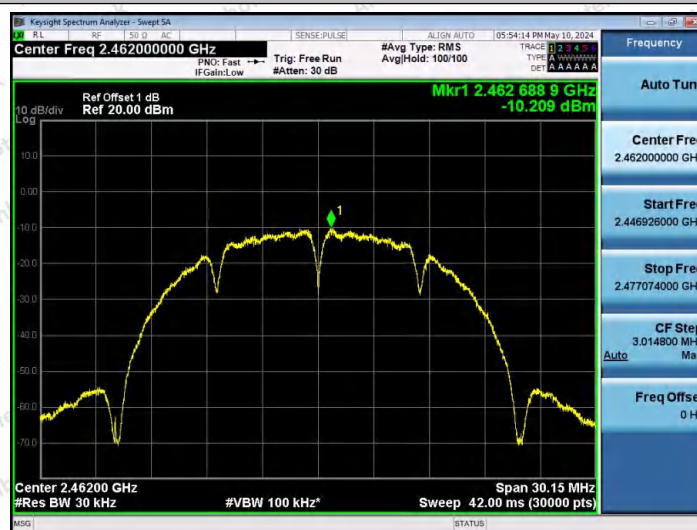
Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

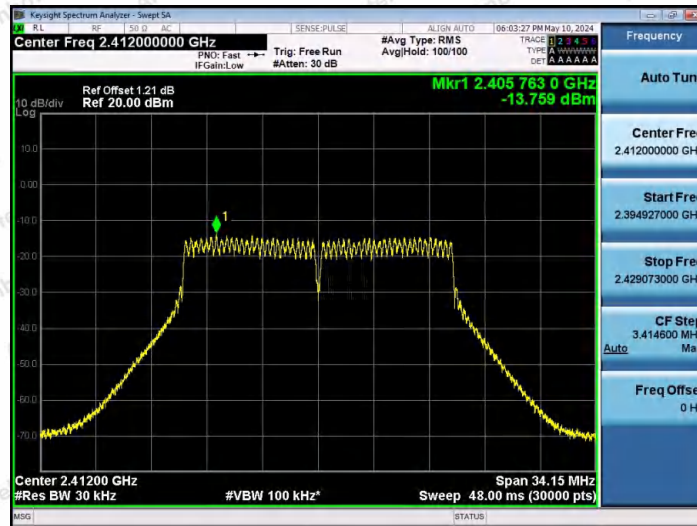
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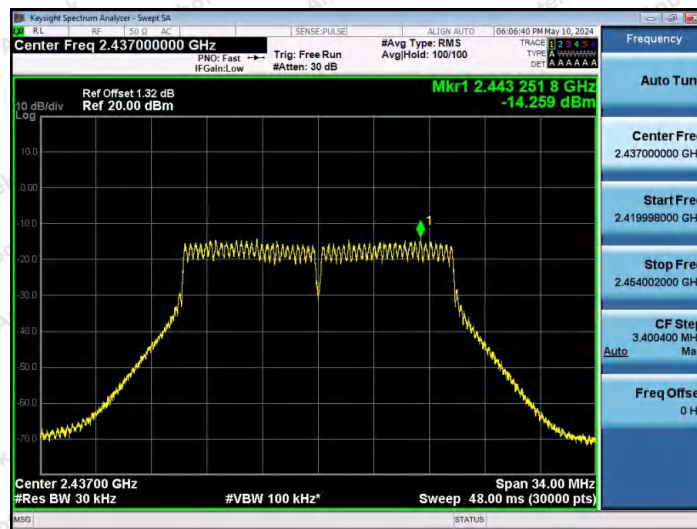


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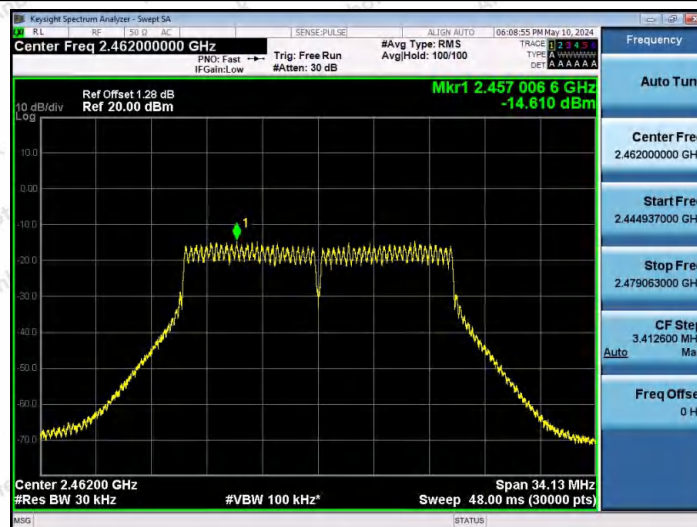




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



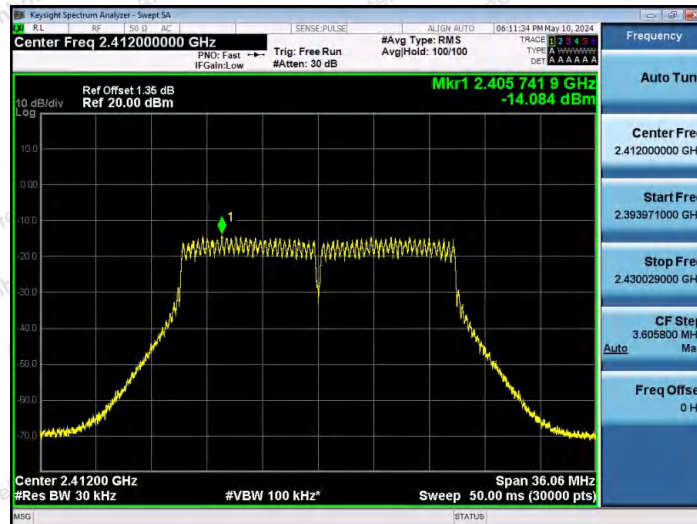
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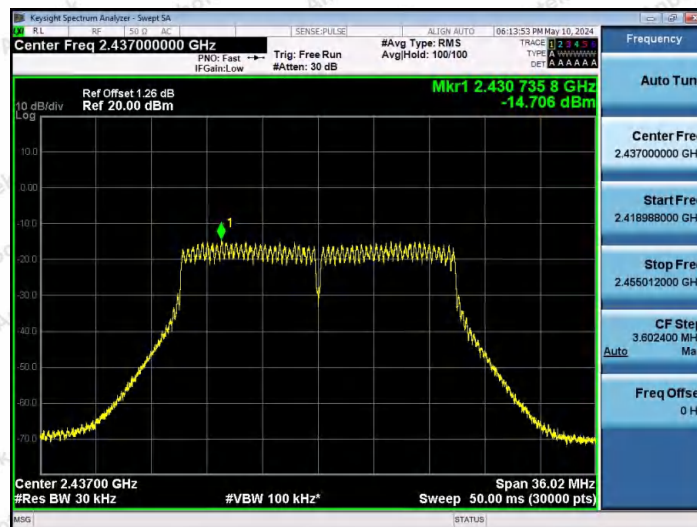
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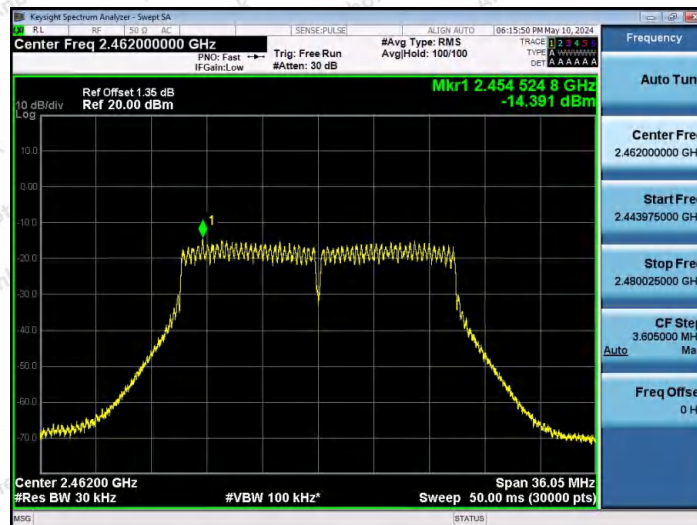




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



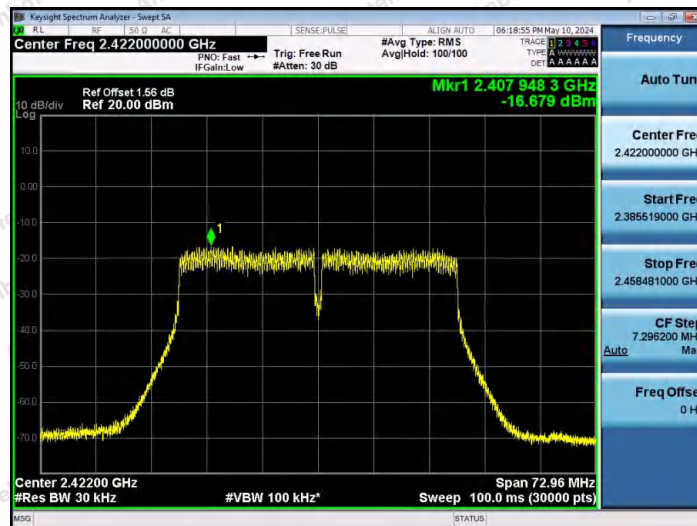
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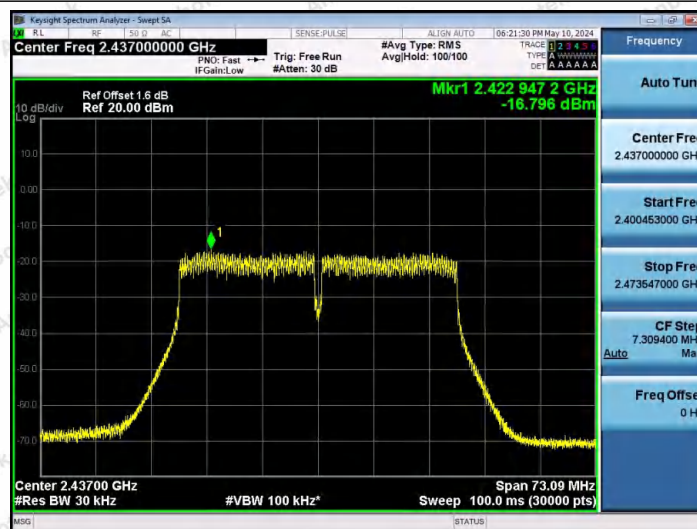
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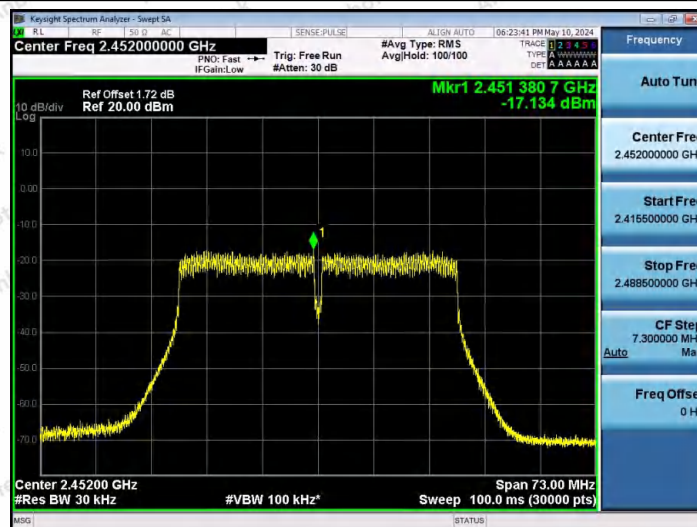




11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS

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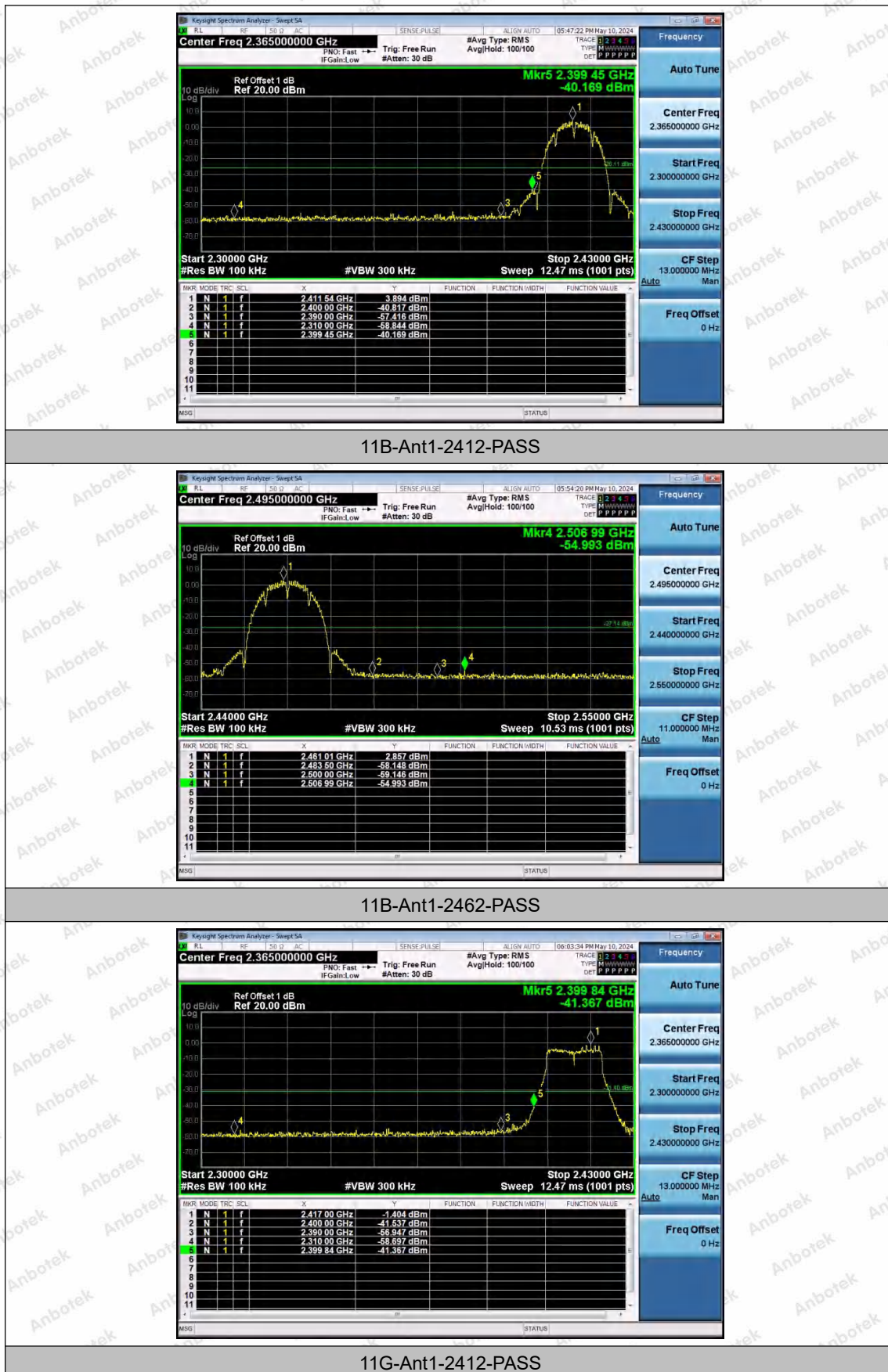
Appendix E: Conducted Band edge

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.89	-40.17	≤-26.11	PASS
11B	Ant1	High	2462	2.86	-54.99	≤-27.14	PASS
11G	Ant1	Low	2412	-1.40	-41.37	≤-31.4	PASS
11G	Ant1	High	2462	-2.34	-55.94	≤-32.34	PASS
11N20SISO	Ant1	Low	2412	-0.83	-37.65	≤-30.83	PASS
11N20SISO	Ant1	High	2462	-2.01	-55.07	≤-32.01	PASS
11N40SISO	Ant1	Low	2422	-3.82	-41.25	≤-33.82	PASS
11N40SISO	Ant1	High	2452	-4.88	-55.03	≤-34.88	PASS



Test Graphs



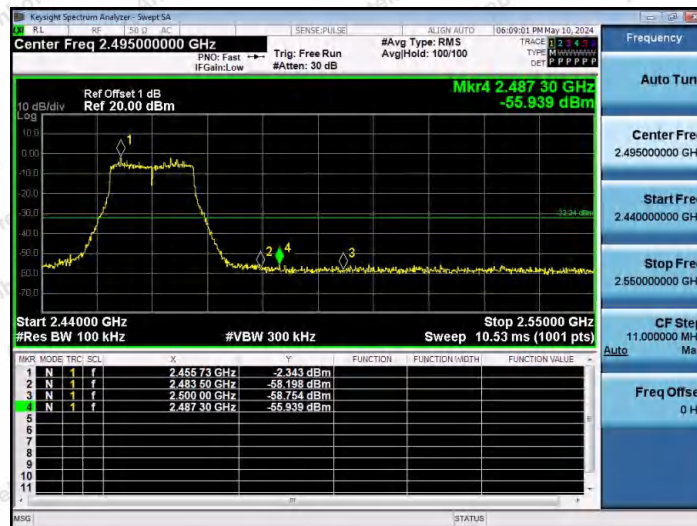
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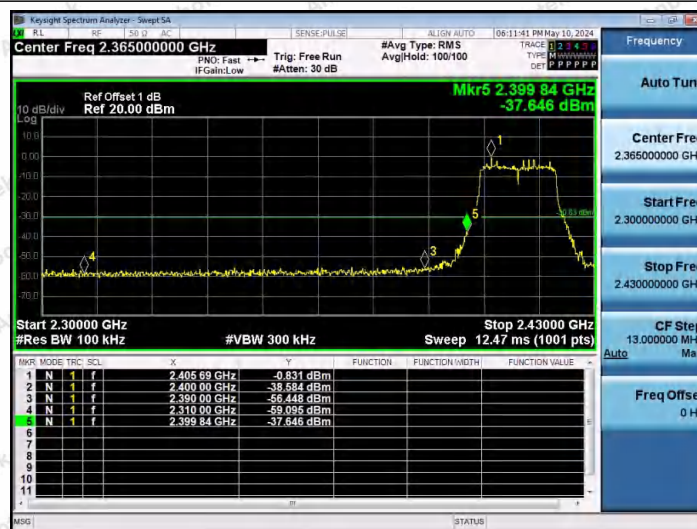


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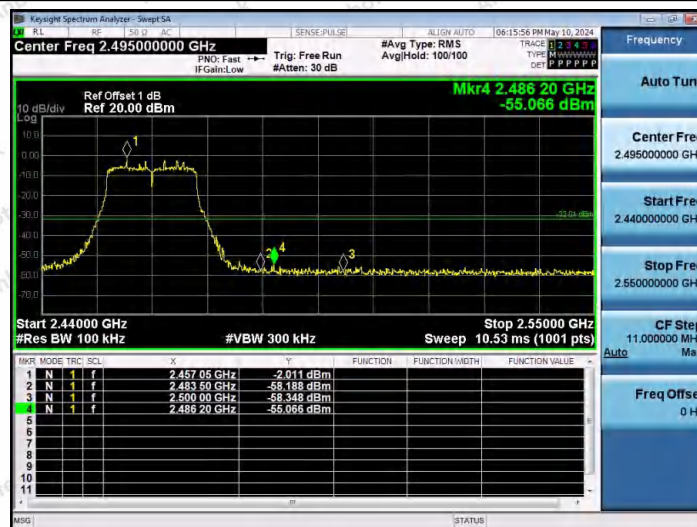




11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS

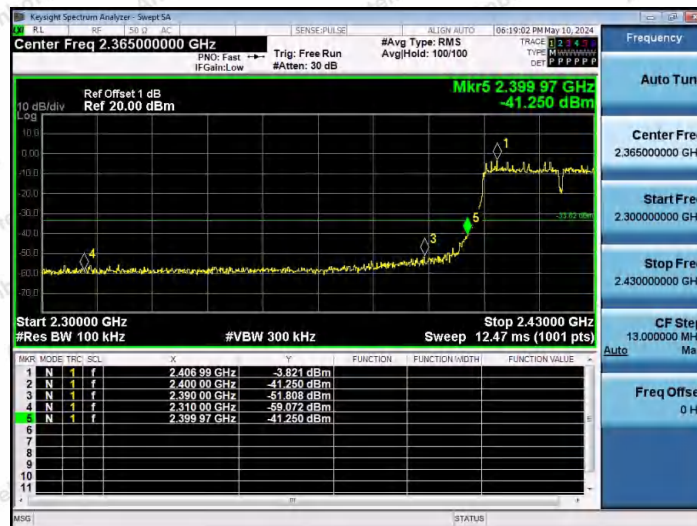
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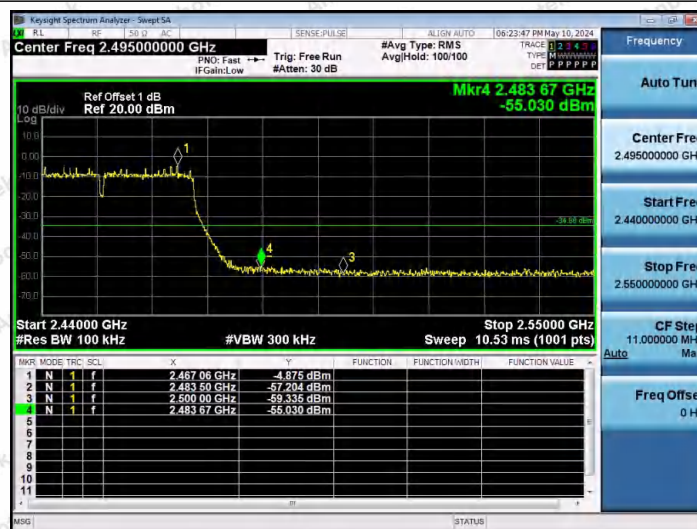


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11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2452-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	2.07	2.07	---	PASS
11B	Ant1	2412	30~1000	2.07	-67.97	≤-27.93	PASS
11B	Ant1	2412	1000~26500	2.07	-53.23	≤-27.93	PASS
11B	Ant1	2437	0~Reference	2.38	2.38	---	PASS
11B	Ant1	2437	30~1000	2.38	-67.61	≤-27.62	PASS
11B	Ant1	2437	1000~26500	2.38	-53.86	≤-27.62	PASS
11B	Ant1	2462	0~Reference	1.84	1.84	---	PASS
11B	Ant1	2462	30~1000	1.84	-67.94	≤-28.16	PASS
11B	Ant1	2462	1000~26500	1.84	-53.89	≤-28.16	PASS
11G	Ant1	2412	0~Reference	-3.34	-3.34	---	PASS
11G	Ant1	2412	30~1000	-3.34	-67.76	≤-33.34	PASS
11G	Ant1	2412	1000~26500	-3.34	-53.13	≤-33.34	PASS
11G	Ant1	2437	0~Reference	-4.74	-4.74	---	PASS
11G	Ant1	2437	30~1000	-4.74	-68.2	≤-34.74	PASS
11G	Ant1	2437	1000~26500	-4.74	-53.74	≤-34.74	PASS
11G	Ant1	2462	0~Reference	-4.48	-4.48	---	PASS
11G	Ant1	2462	30~1000	-4.48	-68.35	≤-34.48	PASS
11G	Ant1	2462	1000~26500	-4.48	-54.25	≤-34.48	PASS
11N20SISO	Ant1	2412	0~Reference	-0.77	-0.77	---	PASS
11N20SISO	Ant1	2412	30~1000	-0.77	-68.88	≤-30.77	PASS
11N20SISO	Ant1	2412	1000~26500	-0.77	-53.87	≤-30.77	PASS
11N20SISO	Ant1	2437	0~Reference	-1.48	-1.48	---	PASS
11N20SISO	Ant1	2437	30~1000	-1.48	-68.94	≤-31.48	PASS
11N20SISO	Ant1	2437	1000~26500	-1.48	-53.86	≤-31.48	PASS
11N20SISO	Ant1	2462	0~Reference	-5.77	-5.77	---	PASS
11N20SISO	Ant1	2462	30~1000	-5.77	-67.48	≤-35.77	PASS
11N20SISO	Ant1	2462	1000~26500	-5.77	-53.19	≤-35.77	PASS
11N40SISO	Ant1	2422	0~Reference	-5.41	-5.41	---	PASS
11N40SISO	Ant1	2422	30~1000	-5.41	-67.36	≤-35.41	PASS
11N40SISO	Ant1	2422	1000~26500	-5.41	-53.56	≤-35.41	PASS
11N40SISO	Ant1	2437	0~Reference	-4.71	-4.71	---	PASS
11N40SISO	Ant1	2437	30~1000	-4.71	-66.26	≤-34.71	PASS
11N40SISO	Ant1	2437	1000~26500	-4.71	-53.85	≤-34.71	PASS
11N40SISO	Ant1	2452	0~Reference	-4.86	-4.86	---	PASS
11N40SISO	Ant1	2452	30~1000	-4.86	-68.51	≤-34.86	PASS
11N40SISO	Ant1	2452	1000~26500	-4.86	-53.79	≤-34.86	PASS

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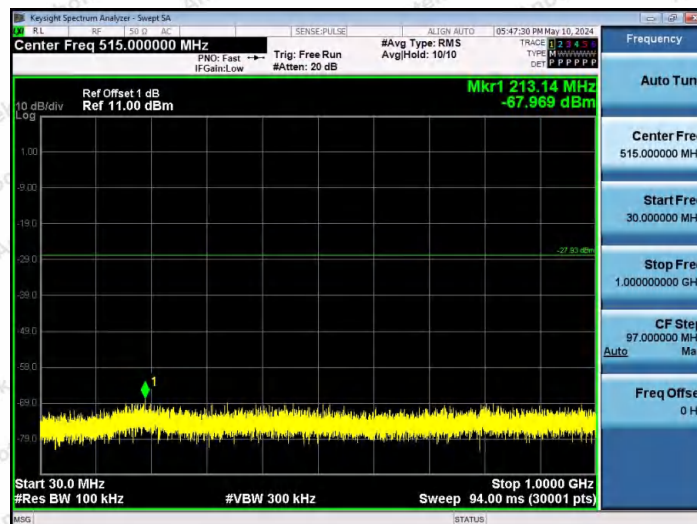
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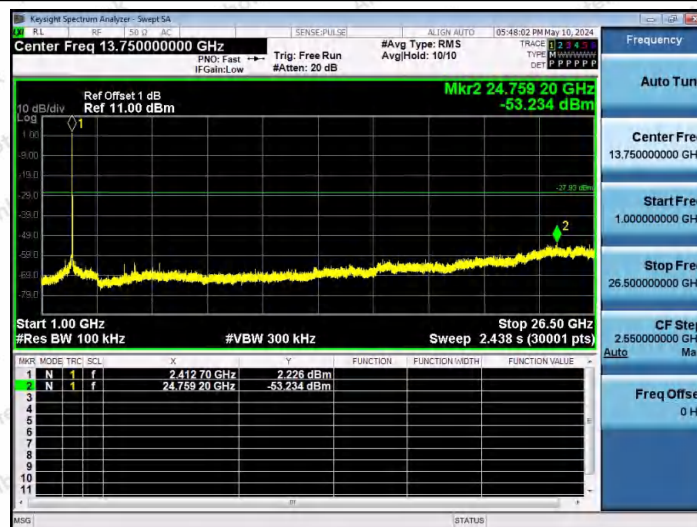
Test Graphs



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



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



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

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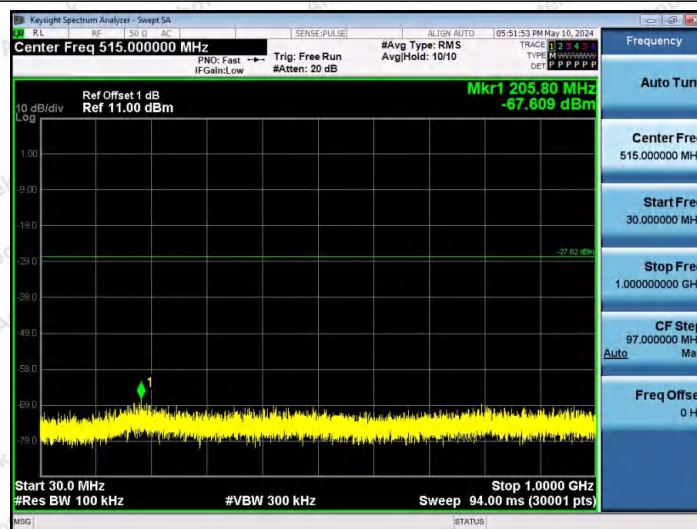


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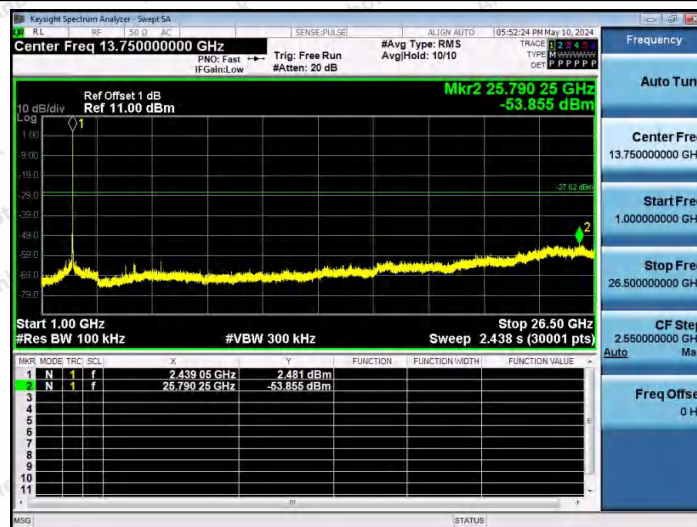




11B-Ant1-2437-0~Reference-PASS



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



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

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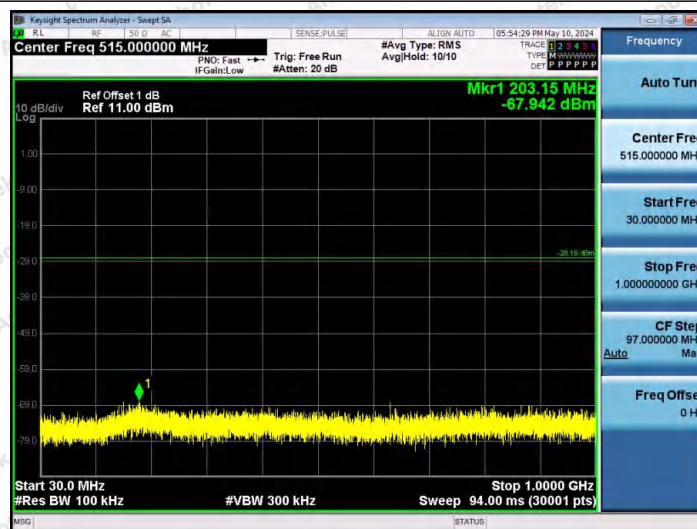


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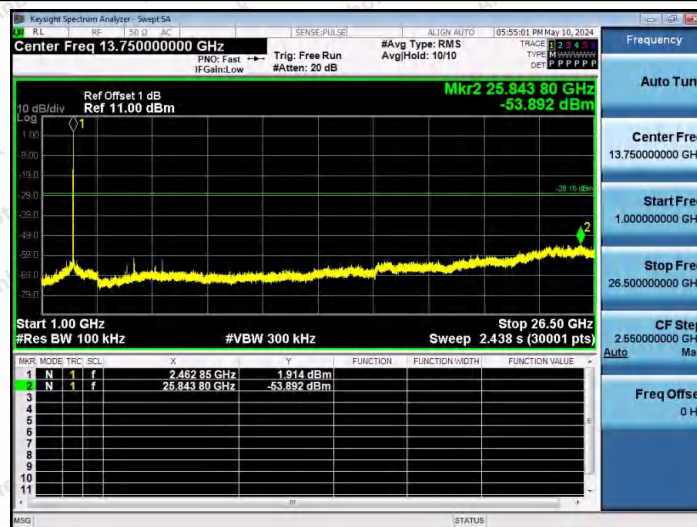




11B-Ant1-2462-0~Reference-PASS



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



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

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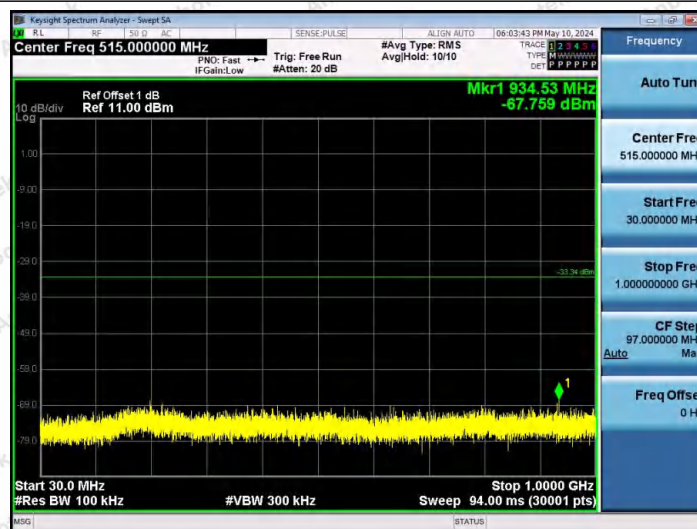


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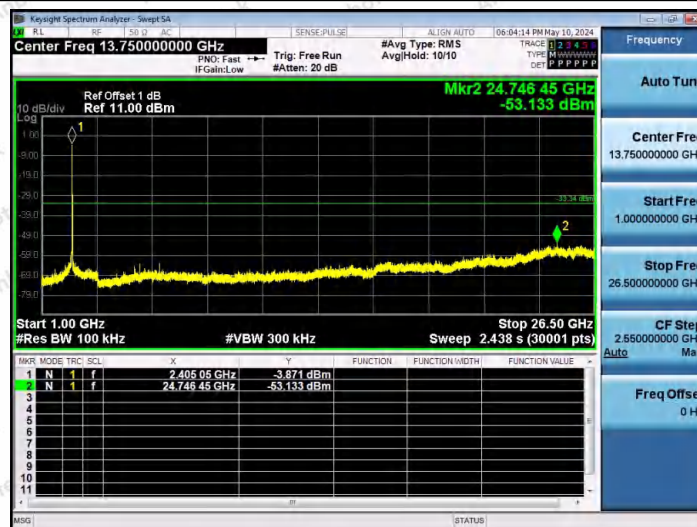




11G-Ant1-2412-0~Reference-PASS



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



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

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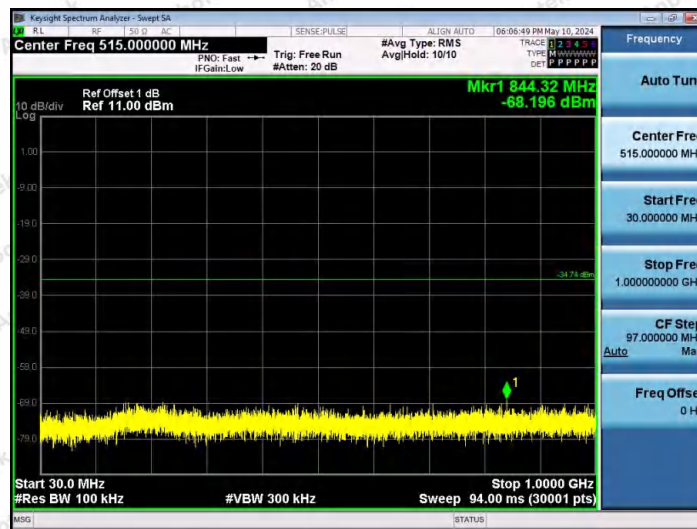


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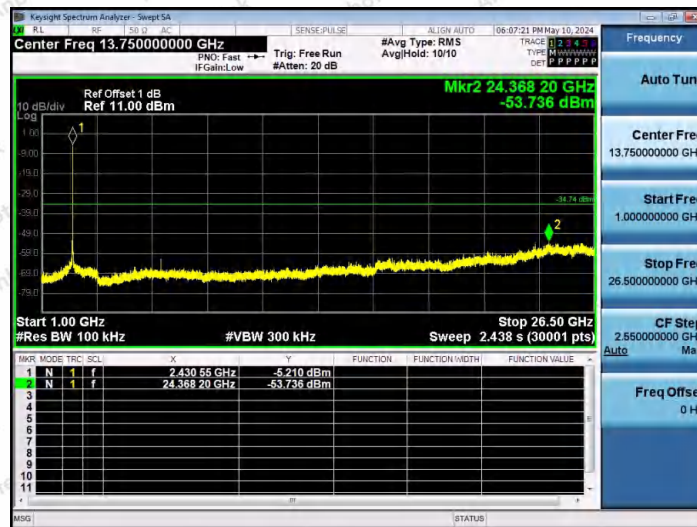




11G-Ant1-2437-0~Reference-PASS



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



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

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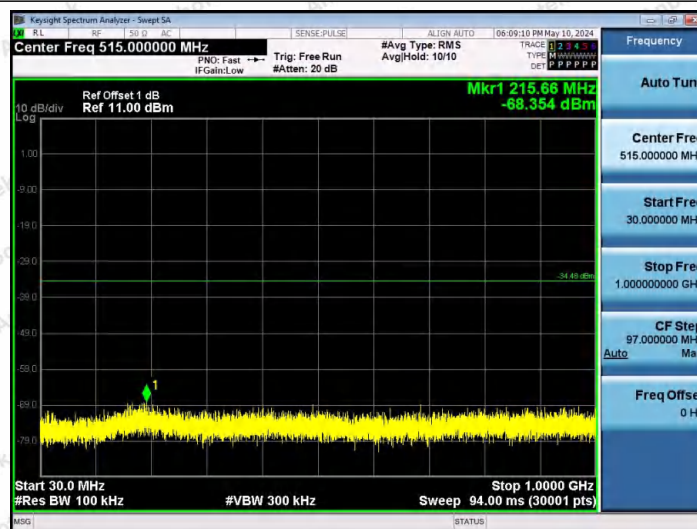


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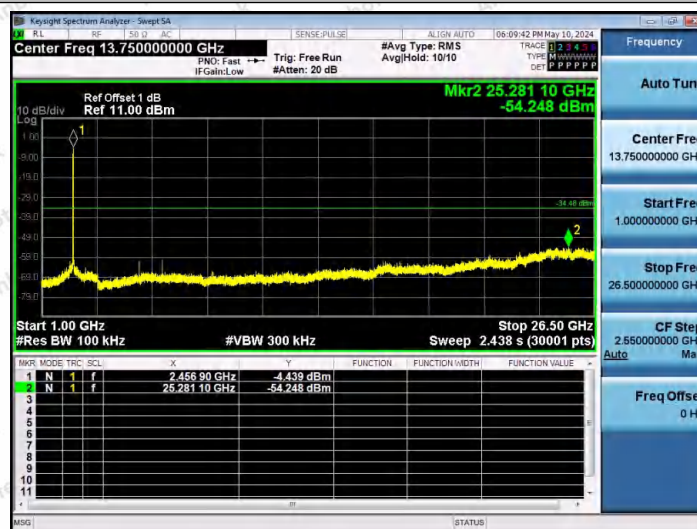




11G-Ant1-2462-0~Reference-PASS



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



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

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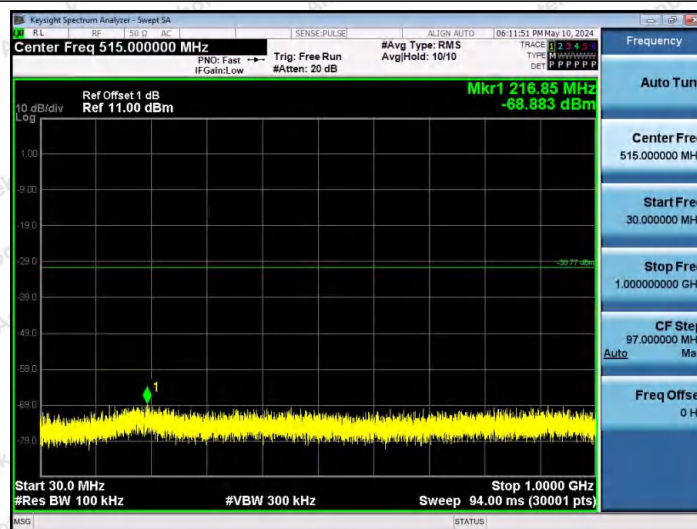


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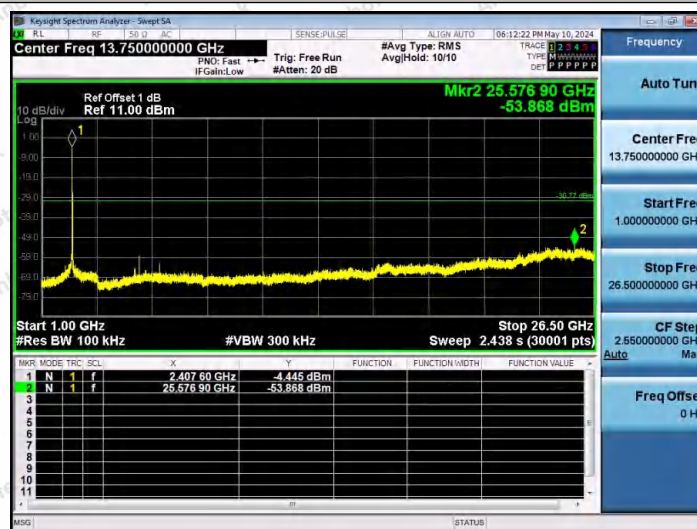




11N20SISO-Ant1-2412-0~Reference-PASS



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



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

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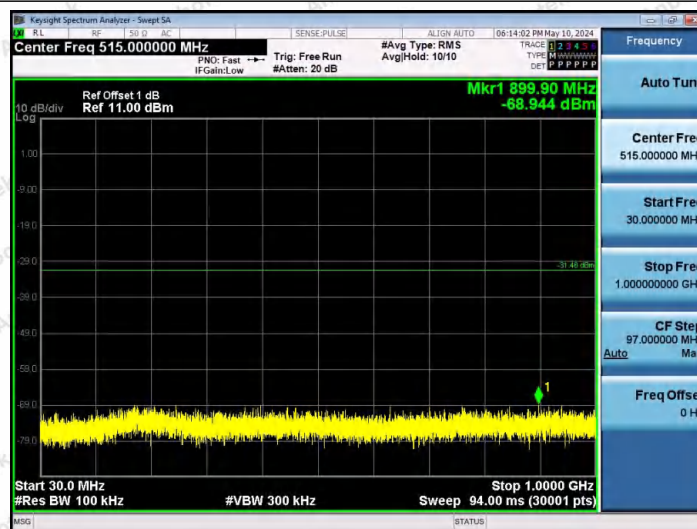


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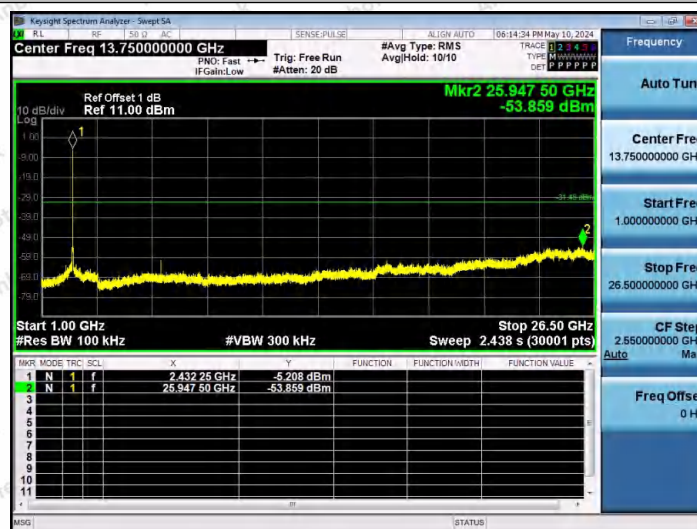




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11N20SISO-Ant1-2437-30~1000-PASS



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

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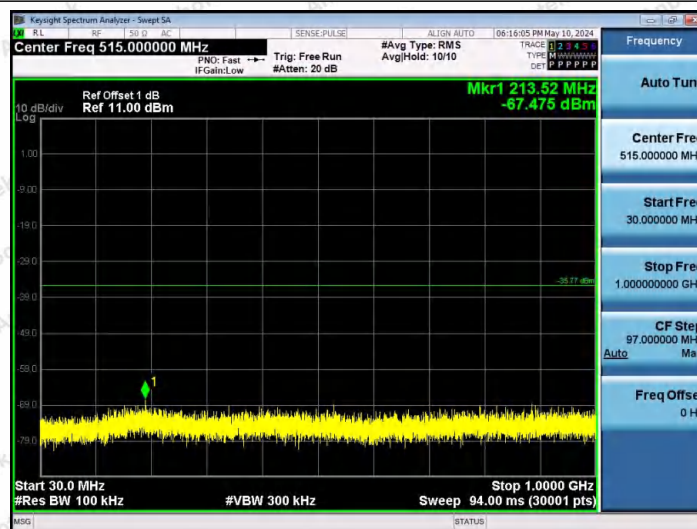


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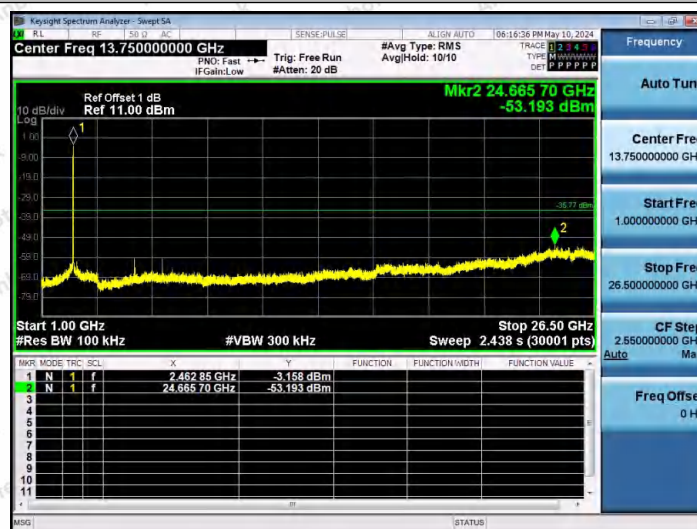




11N20SISO-Ant1-2462-0~Reference-PASS



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



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

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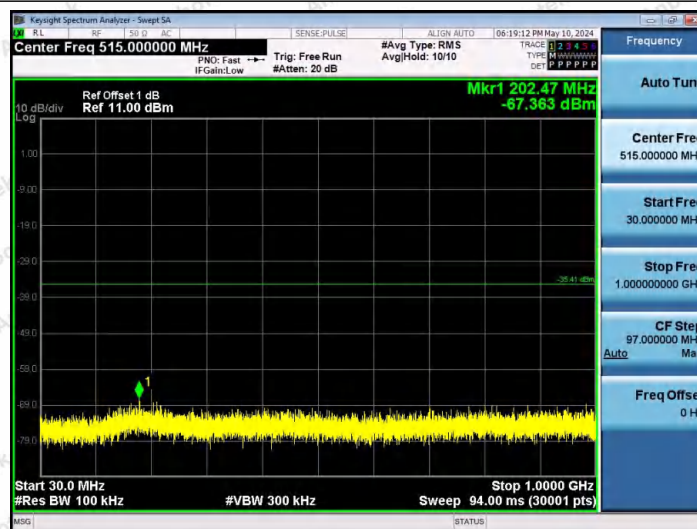


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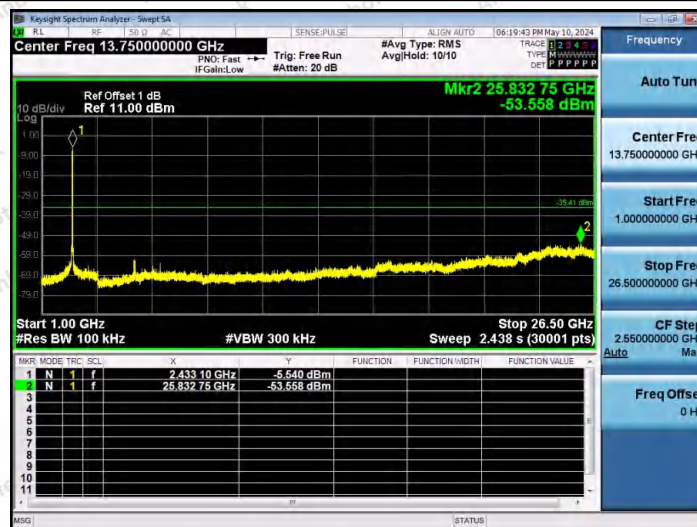




11N40SISO-Ant1-2422-0~Reference-PASS



11N40SISO-Ant1-2422-30~1000-PASS



11N40SISO-Ant1-2422-1000~26500-PASS

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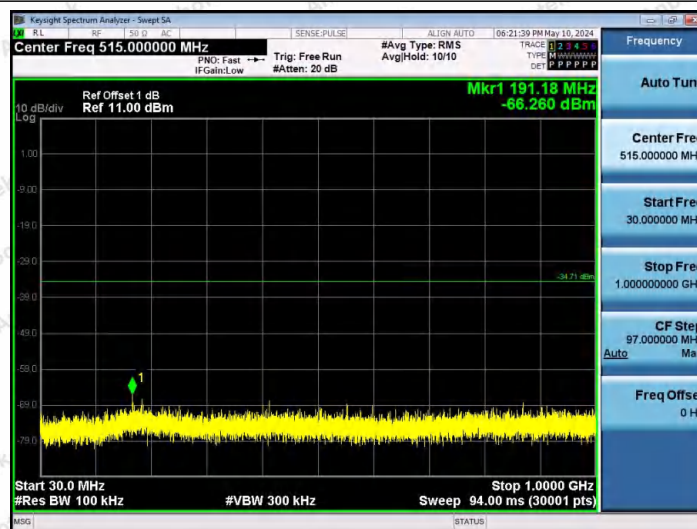


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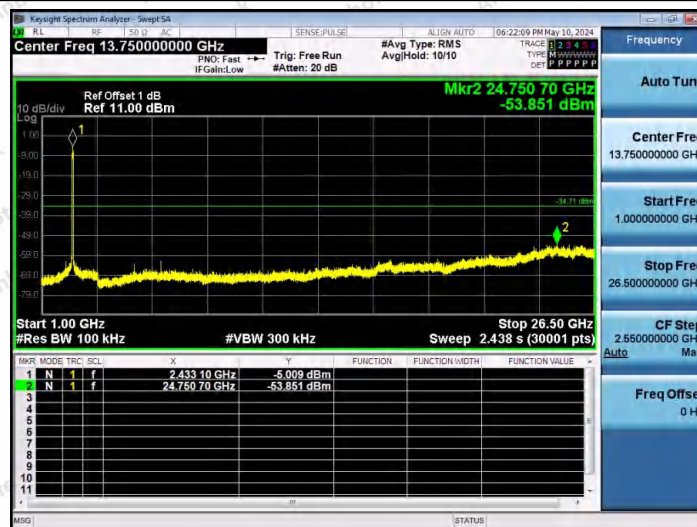




11N40SISO-Ant1-2437-0~Reference-PASS



11N40SISO-Ant1-2437-30~1000-PASS



11N40SISO-Ant1-2437-1000~26500-PASS

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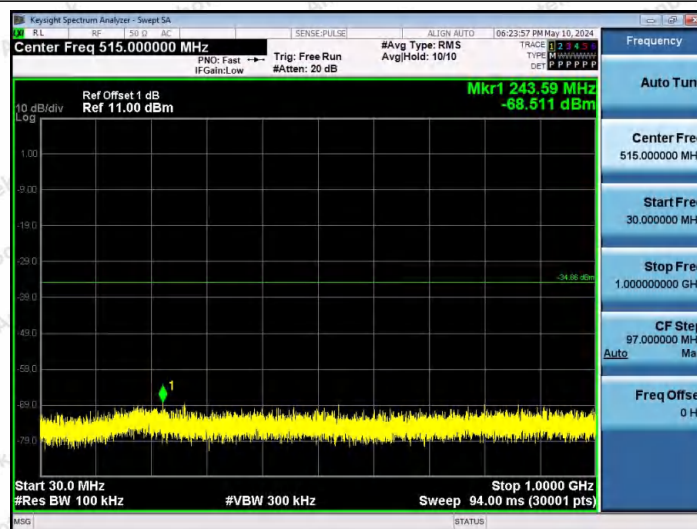


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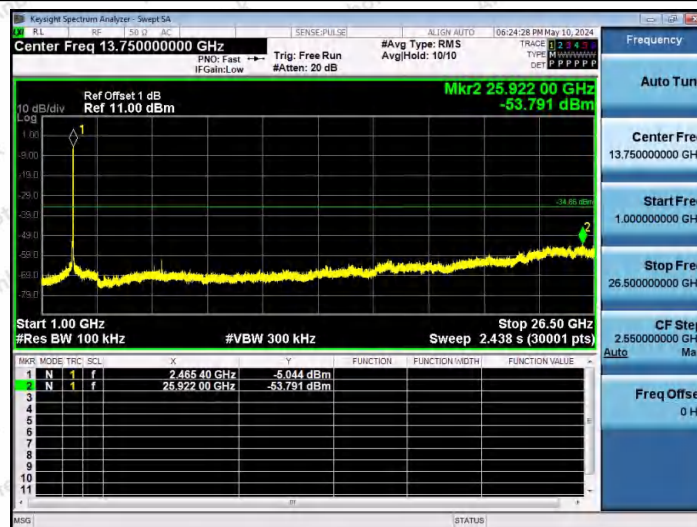




11N40SISO-Ant1-2452-0~Reference-PASS



11N40SISO-Ant1-2452-30~1000-PASS



11N40SISO-Ant1-2452-1000~26500-PASS

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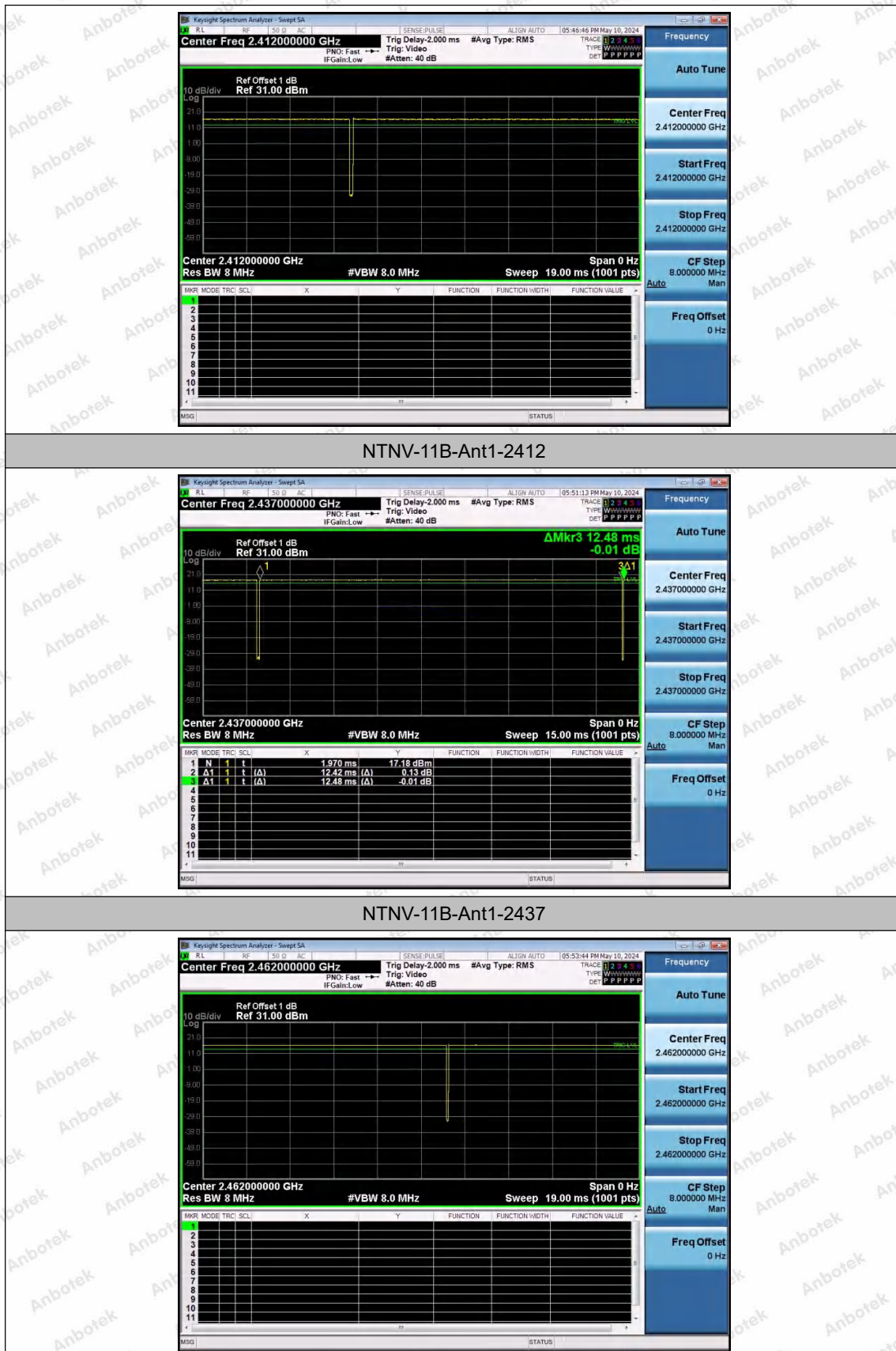
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	7.00	7.00	100.00	0.00
11B	Ant1	2437	12.42	12.48	99.52	0.02
11B	Ant1	2462	9.00	9.00	100.00	0.00
11G	Ant1	2412	2.06	2.16	95.37	0.21
11G	Ant1	2437	2.06	2.22	92.79	0.32
11G	Ant1	2462	2.07	2.21	93.67	0.28
11N20SISO	Ant1	2412	1.92	2.08	92.31	0.35
11N20SISO	Ant1	2437	1.92	2.04	94.12	0.26
11N20SISO	Ant1	2462	1.92	2.08	92.31	0.35
11N40SISO	Ant1	2422	0.94	1.07	87.85	0.56
11N40SISO	Ant1	2437	0.94	1.08	87.04	0.60
11N40SISO	Ant1	2452	0.94	1.11	84.68	0.72



Test Graphs



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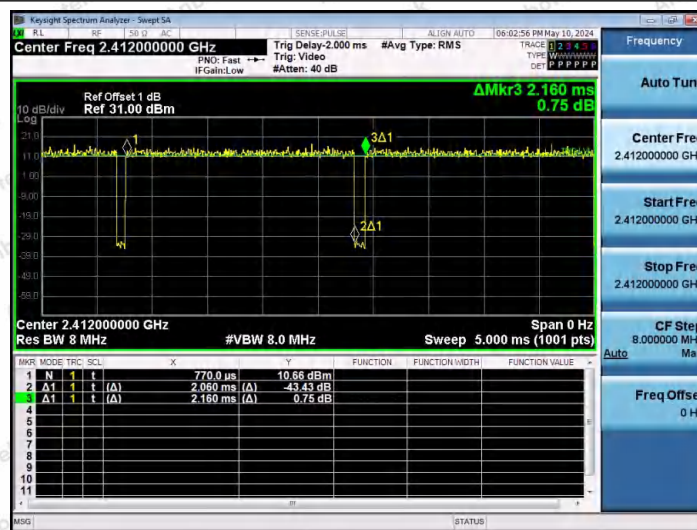
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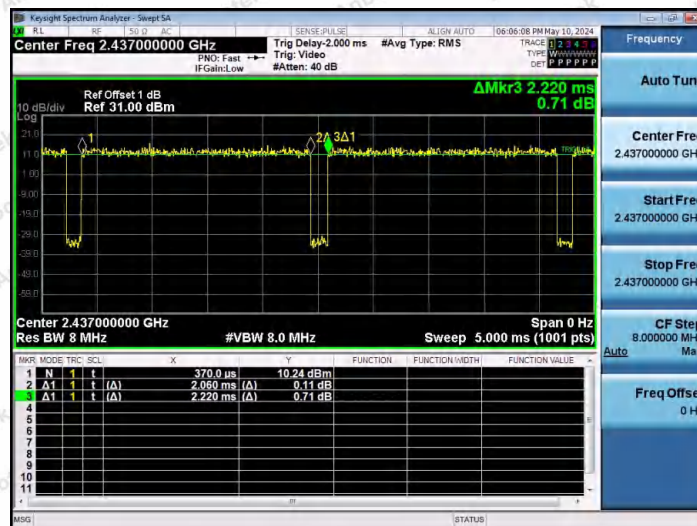
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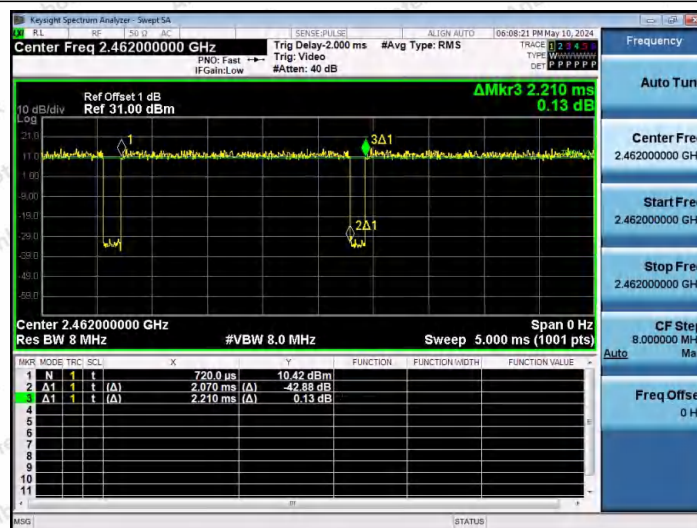
NTNV-11B-Ant1-2462



NTNV-11G-Ant1-2412



NTNV-11G-Ant1-2437



NTNV-11G-Ant1-2462

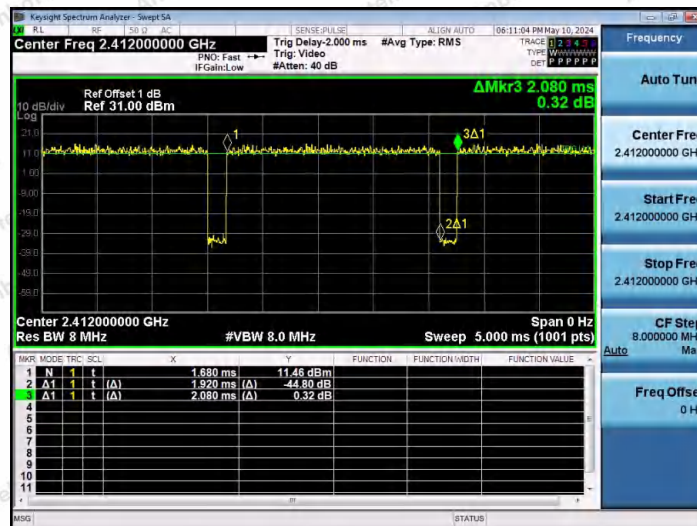
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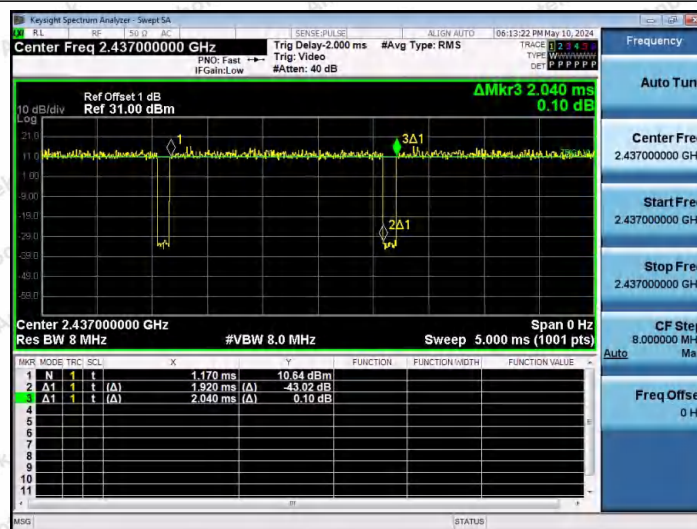


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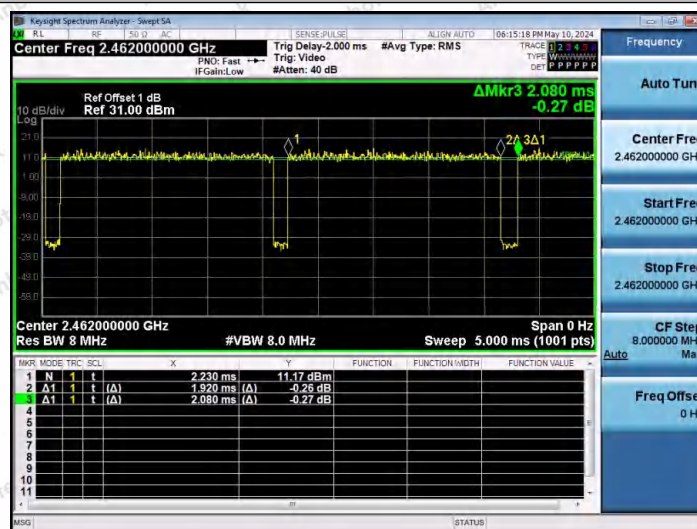




NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437



NTNV-11N20SISO-Ant1-2462

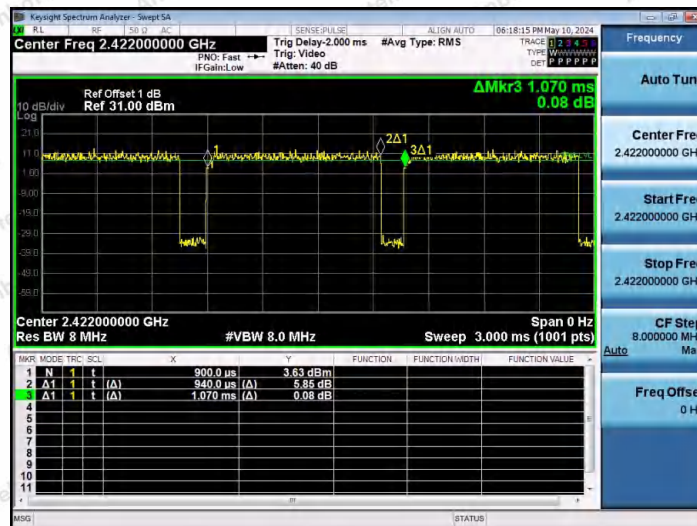
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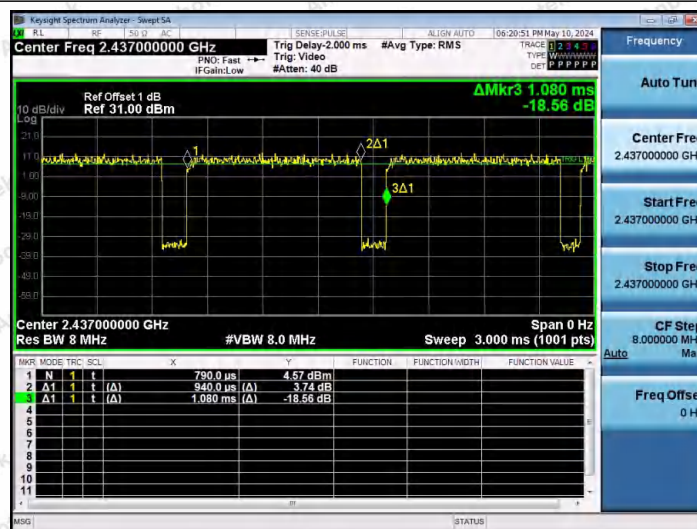


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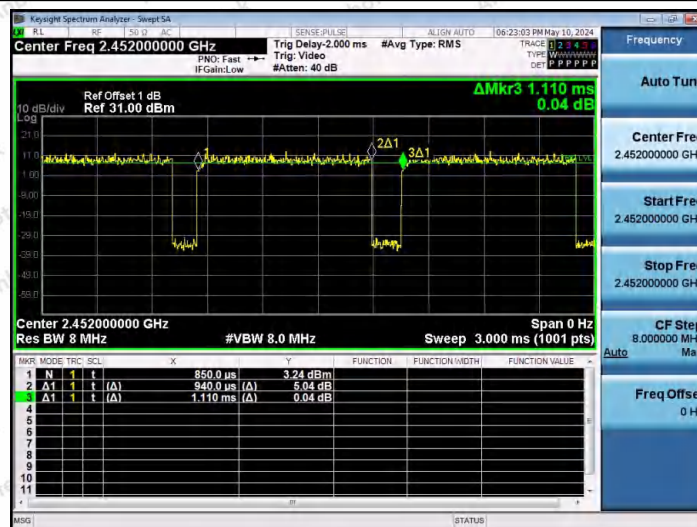




NTNV-11N40SISO-Ant1-2422



NTNV-11N40SISO-Ant1-2437



NTNV-11N40SISO-Ant1-2452

---End---

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