

Appendix Test Data

Report No.:	1812C40106712502	Test Sample No.:	1-2-2
Start Test Date:	2024.10.24	Finish Test Date:	2024.10.24
Test Engineer:	Joker Huang	Auditor:	Justin Feng
Temperature:	24.3°C	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	9.280	2407.400	2416.680	0.5	PASS
11B	Ant1	2437	9.280	2432.400	2441.680	0.5	PASS
11B	Ant1	2462	9.240	2457.400	2466.640	0.5	PASS
11G	Ant1	2412	16.440	2403.800	2420.240	0.5	PASS
11G	Ant1	2437	16.360	2428.800	2445.160	0.5	PASS
11G	Ant1	2462	16.320	2453.920	2470.240	0.5	PASS
11N20SISO	Ant1	2412	17.480	2403.320	2420.800	0.5	PASS
11N20SISO	Ant1	2437	17.600	2428.200	2445.800	0.5	PASS
11N20SISO	Ant1	2462	17.600	2453.240	2470.840	0.5	PASS



Test Graphs

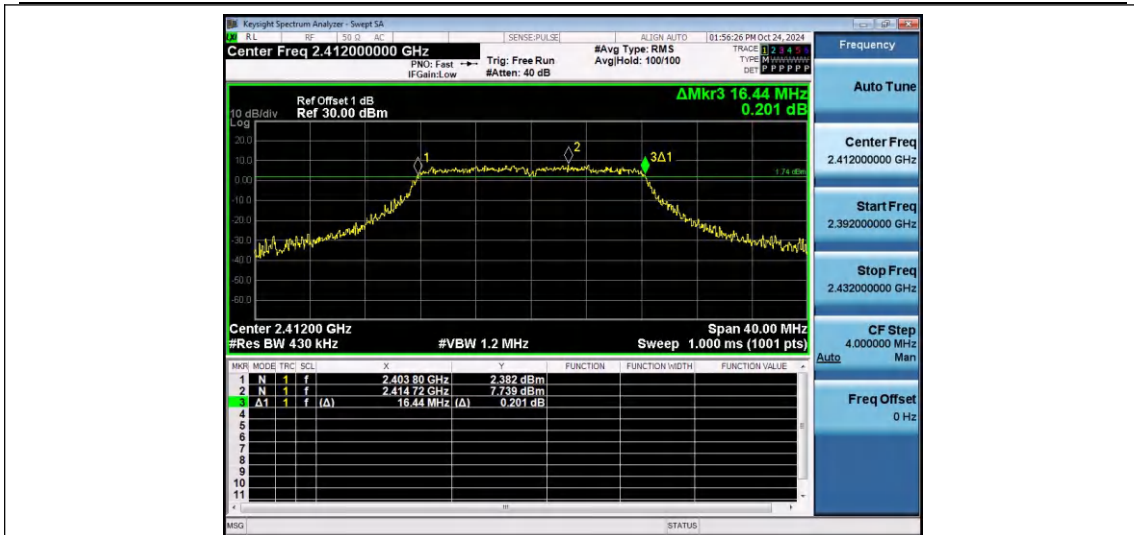


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11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS





Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.123	2404.9476	2419.0706	---	---
11B	Ant1	2437	14.117	2429.9476	2444.0646	---	---
11B	Ant1	2462	14.114	2454.9458	2469.0598	---	---
11G	Ant1	2412	17.109	2403.4840	2420.5930	---	---
11G	Ant1	2437	17.170	2428.4317	2445.6017	---	---
11G	Ant1	2462	17.118	2453.5064	2470.6244	---	---
11N20SISO	Ant1	2412	18.293	2402.8691	2421.1621	---	---
11N20SISO	Ant1	2437	18.269	2427.8872	2446.1562	---	---
11N20SISO	Ant1	2462	18.240	2452.9179	2471.1579	---	---

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Test Graphs

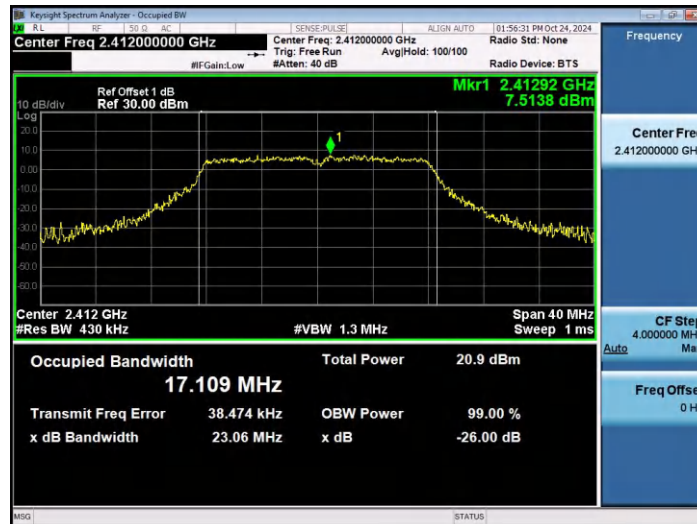


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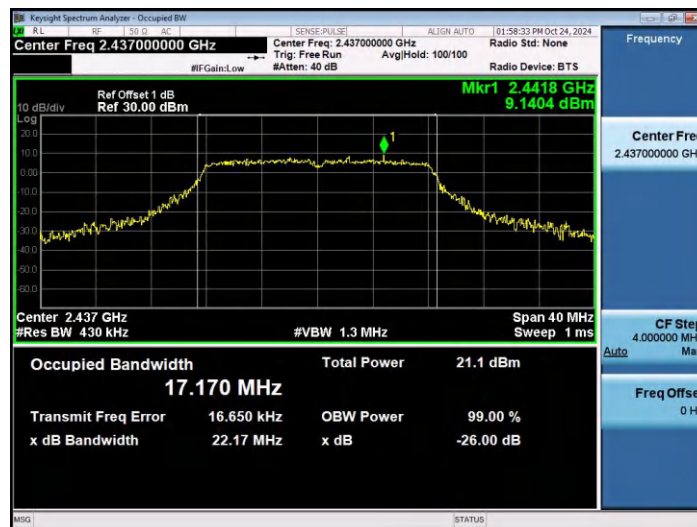
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
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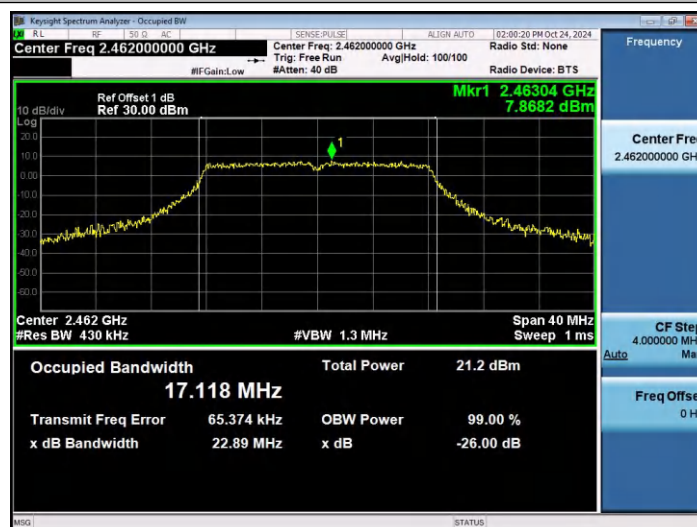




11G-Ant1-2412

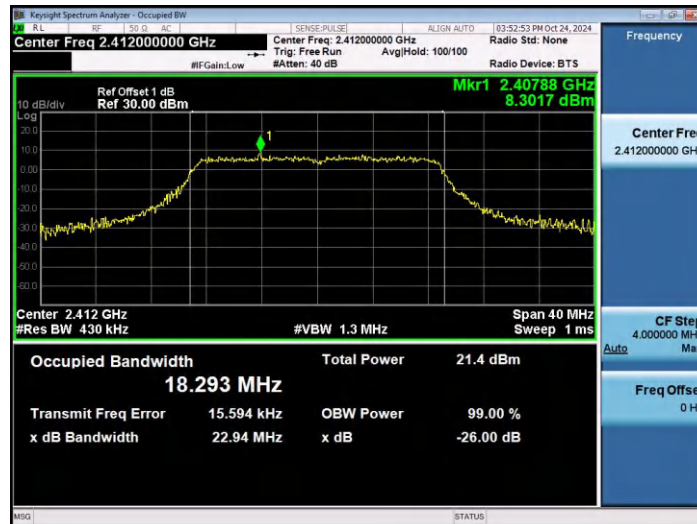


11G-Ant1-2437



11G-Ant1-2462





11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



11N20SISO-Ant1-2462



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	15.79	98.49	0.07	15.86	≤30.00	PASS
11B	Ant1	2437	15.68	98.89	0.05	15.73	≤30.00	PASS
11B	Ant1	2462	15.82	98.96	0.05	15.87	≤30.00	PASS
11G	Ant1	2412	14.63	94.06	0.27	14.90	≤30.00	PASS
11G	Ant1	2437	14.70	94.09	0.26	14.96	≤30.00	PASS
11G	Ant1	2462	14.91	94.09	0.26	15.17	≤30.00	PASS
11N20SISO	Ant1	2412	15.13	93.66	0.28	15.41	≤30.00	PASS
11N20SISO	Ant1	2437	15.20	93.66	0.28	15.48	≤30.00	PASS
11N20SISO	Ant1	2462	15.34	93.66	0.28	15.62	≤30.00	PASS

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



Test Graphs Average

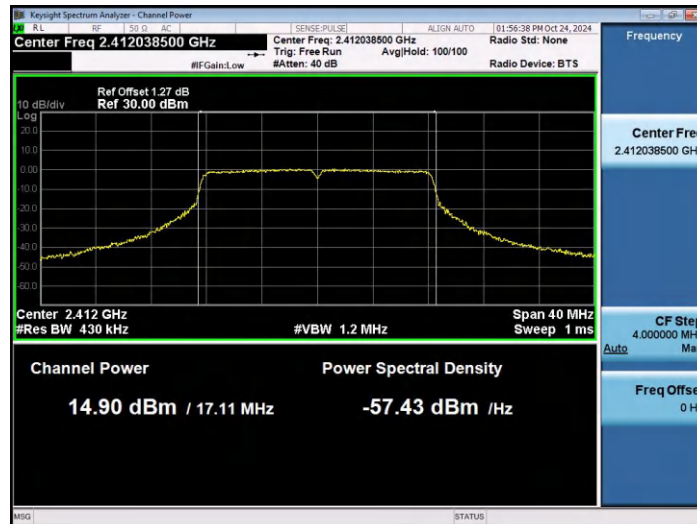


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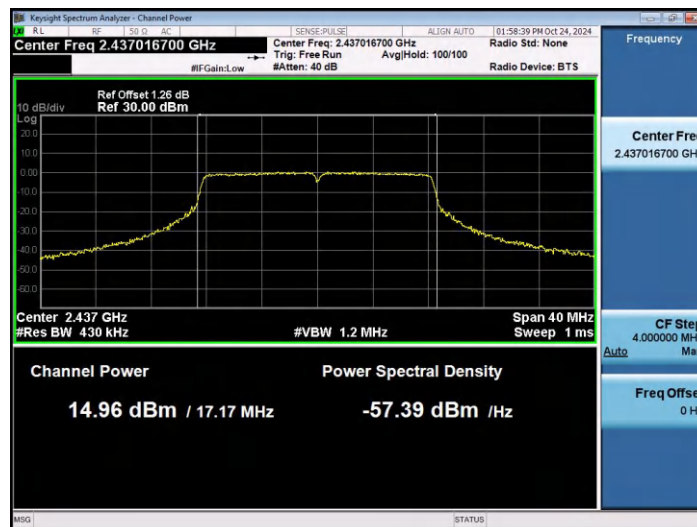
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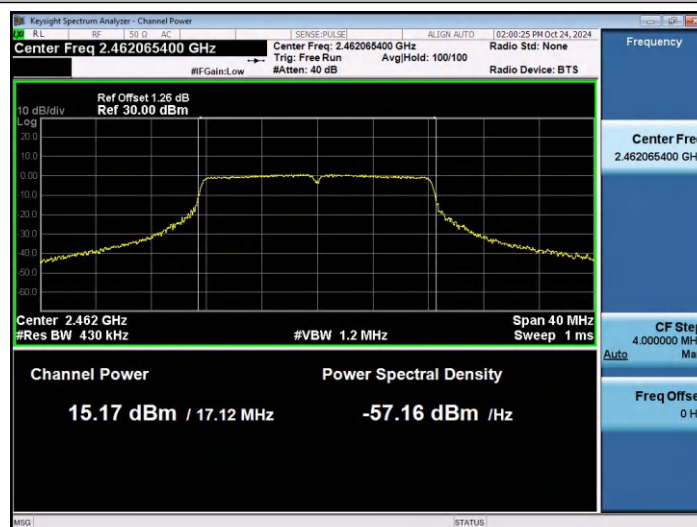




11G-Ant1-2412-PASS

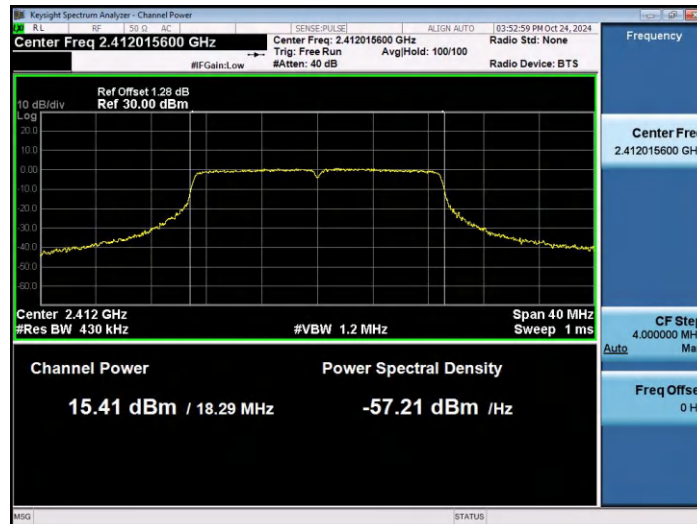


11G-Ant1-2437-PASS

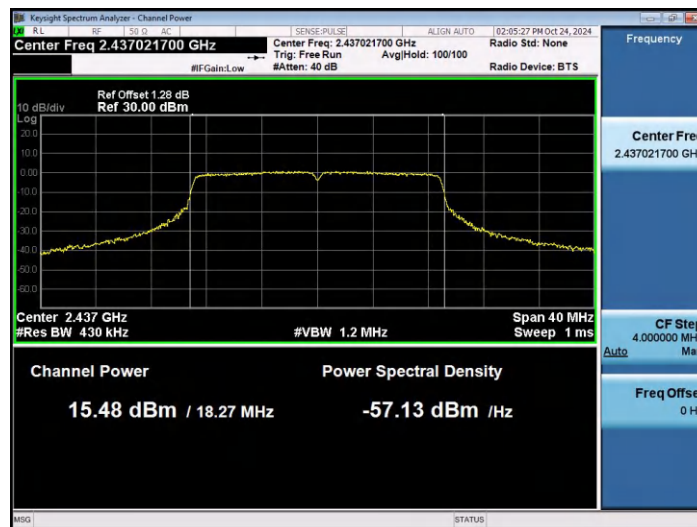


11G-Ant1-2462-PASS





11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS



Appendix D: Maximum power spectral density

Test Result

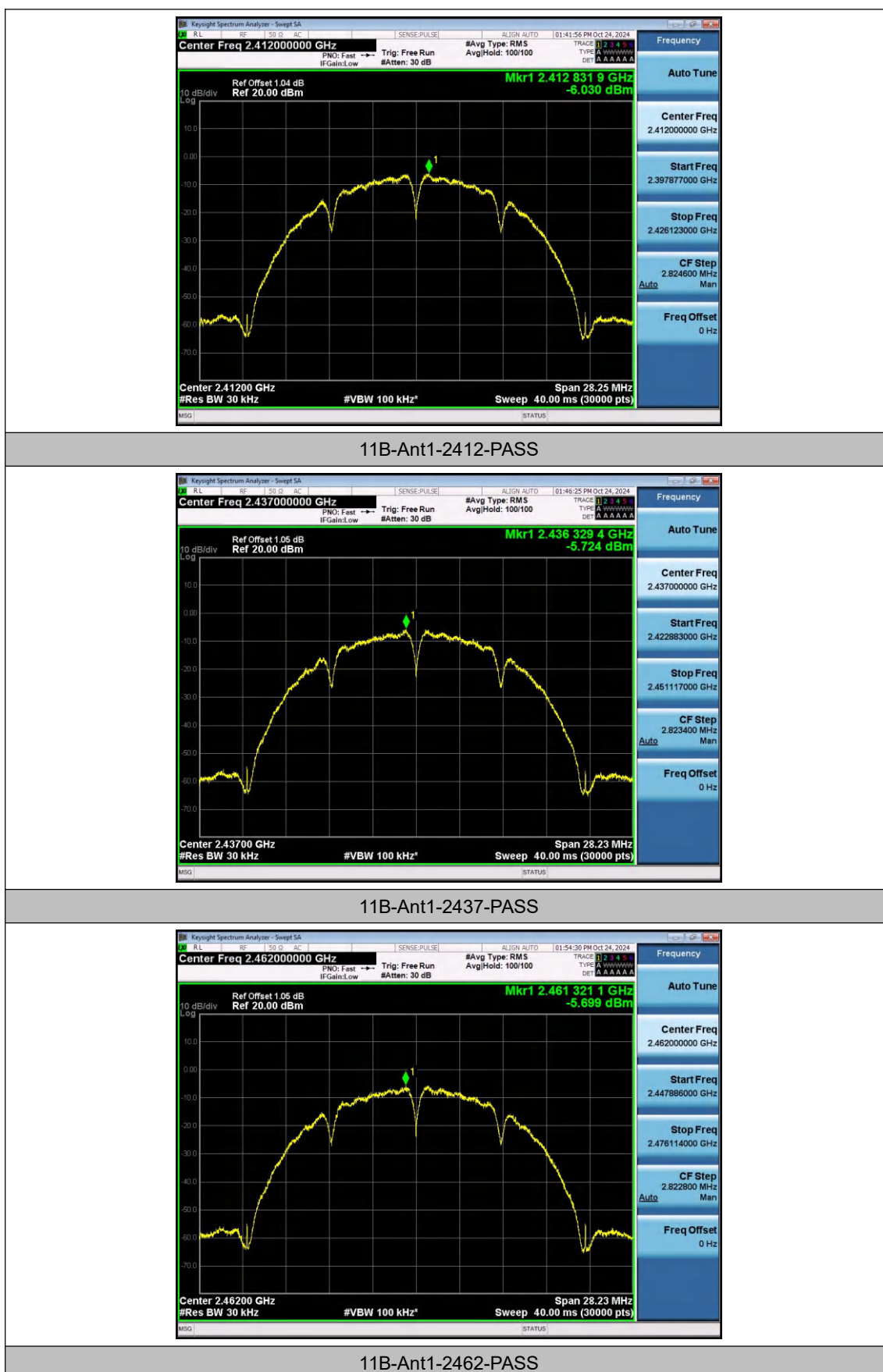
TestMode	Antenna	Frequency [MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-6.03	-16.03	≤8.00	PASS
11B	Ant1	2437	-5.72	-15.72	≤8.00	PASS
11B	Ant1	2462	-5.70	-15.70	≤8.00	PASS
11G	Ant1	2412	-8.95	-18.95	≤8.00	PASS
11G	Ant1	2437	-8.78	-18.78	≤8.00	PASS
11G	Ant1	2462	-8.73	-18.73	≤8.00	PASS
11N20SIS O	Ant1	2412	-8.75	-18.75	≤8.00	PASS
11N20SIS O	Ant1	2437	-8.03	-18.03	≤8.00	PASS
11N20SIS O	Ant1	2462	-8.38	-18.38	≤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

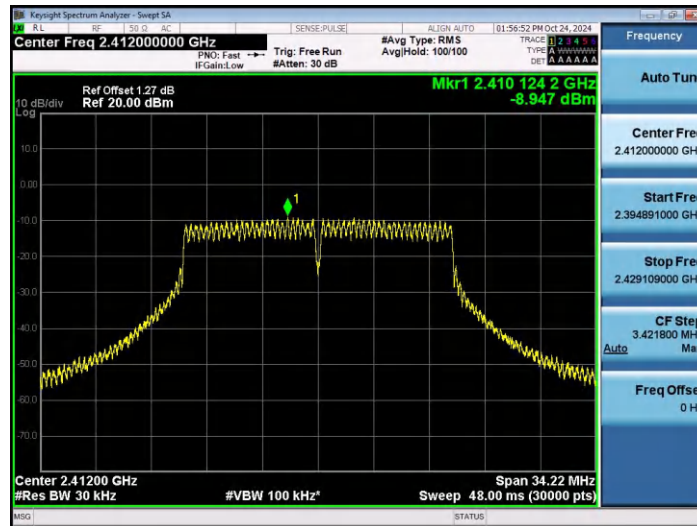


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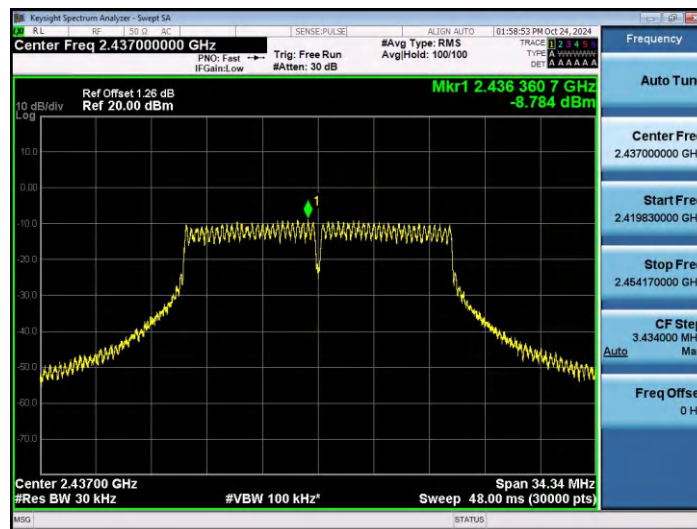
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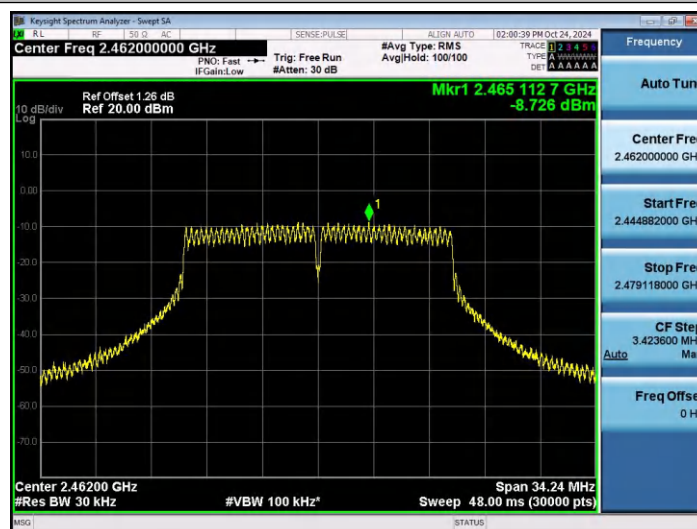




11G-Ant1-2412-PASS

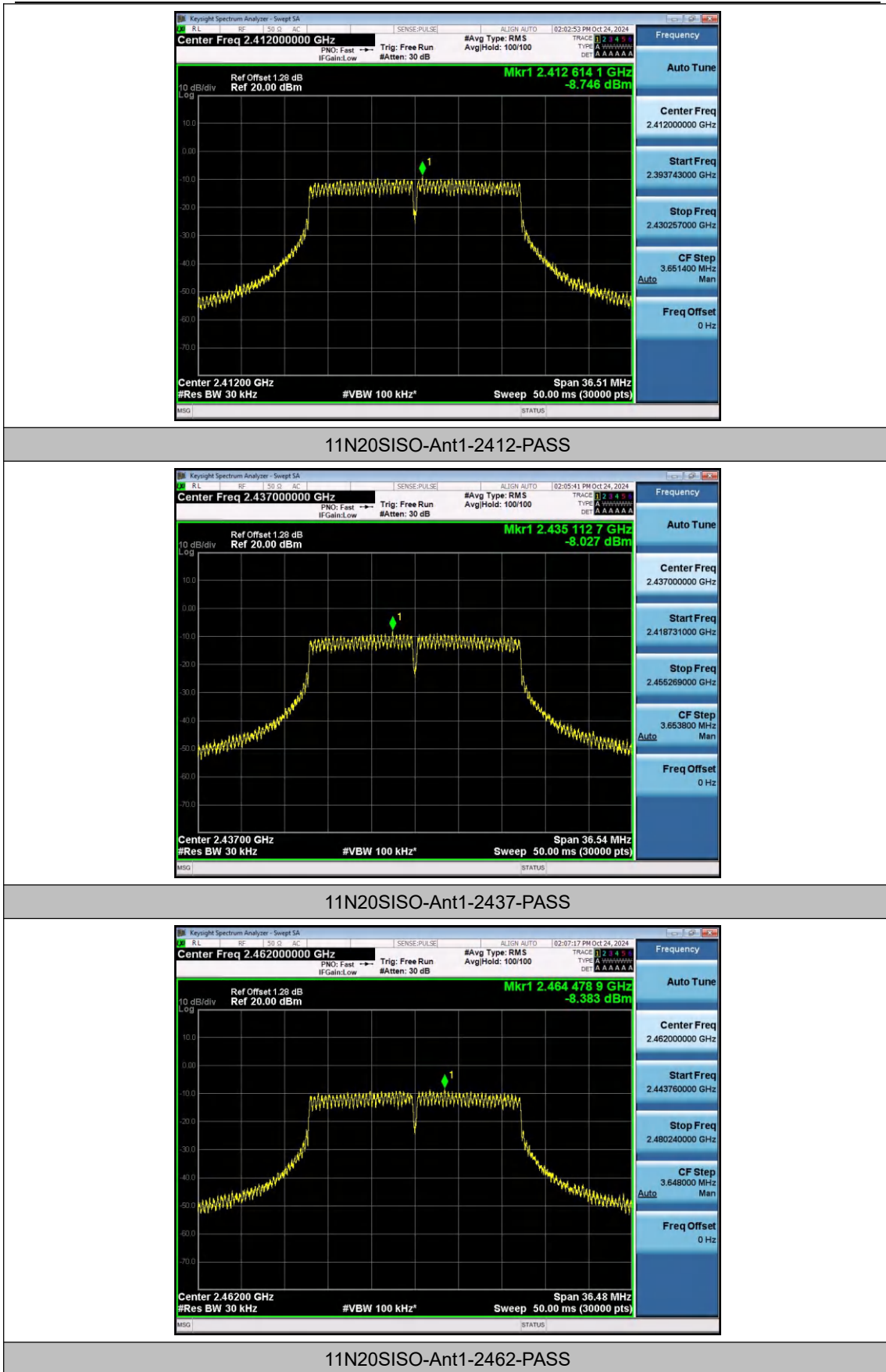


11G-Ant1-2437-PASS



11G-Ant1-2462-PASS





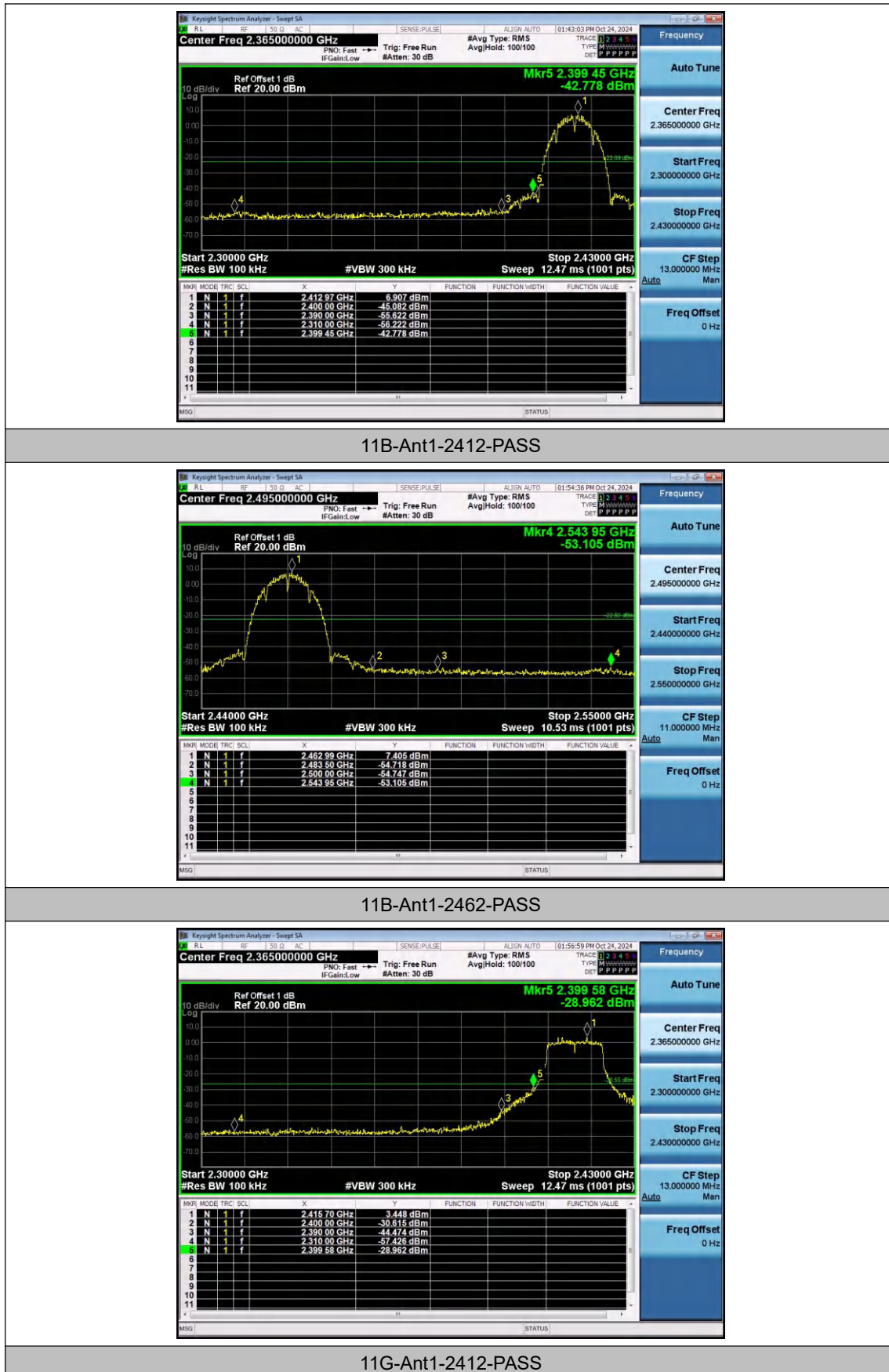
Appendix E: Conducted Band edge

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.91	-42.78	≤-23.09	PASS
11B	Ant1	High	2462	7.41	-53.11	≤-22.6	PASS
11G	Ant1	Low	2412	3.45	-28.96	≤-26.55	PASS
11G	Ant1	High	2462	3.72	-40.72	≤-26.28	PASS
11N20SISO	Ant1	Low	2412	2.90	-28.52	≤-27.1	PASS
11N20SISO	Ant1	High	2462	3.99	-38.21	≤-26.01	PASS



Test Graphs

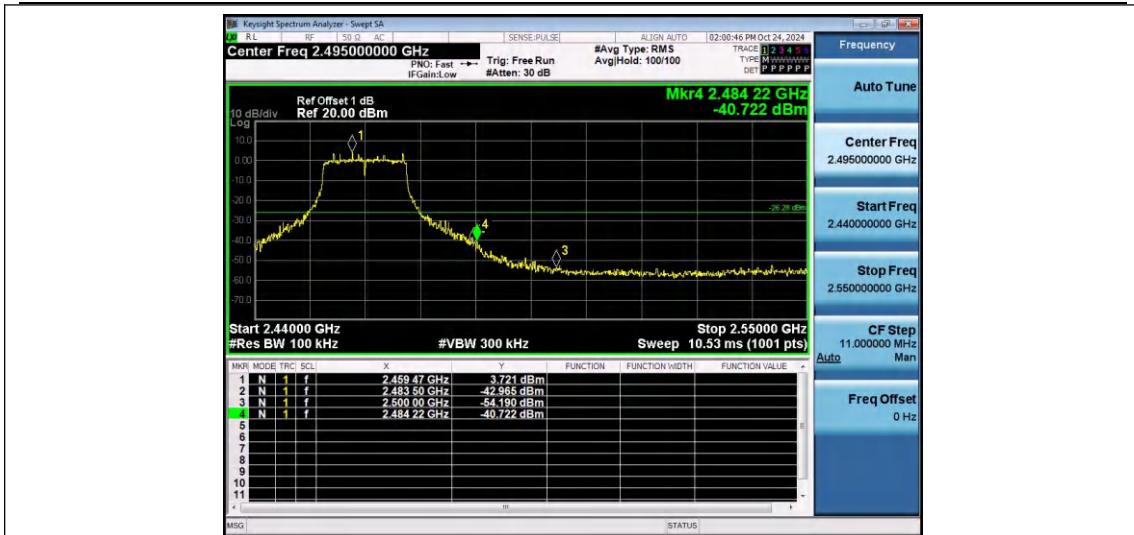


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11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS



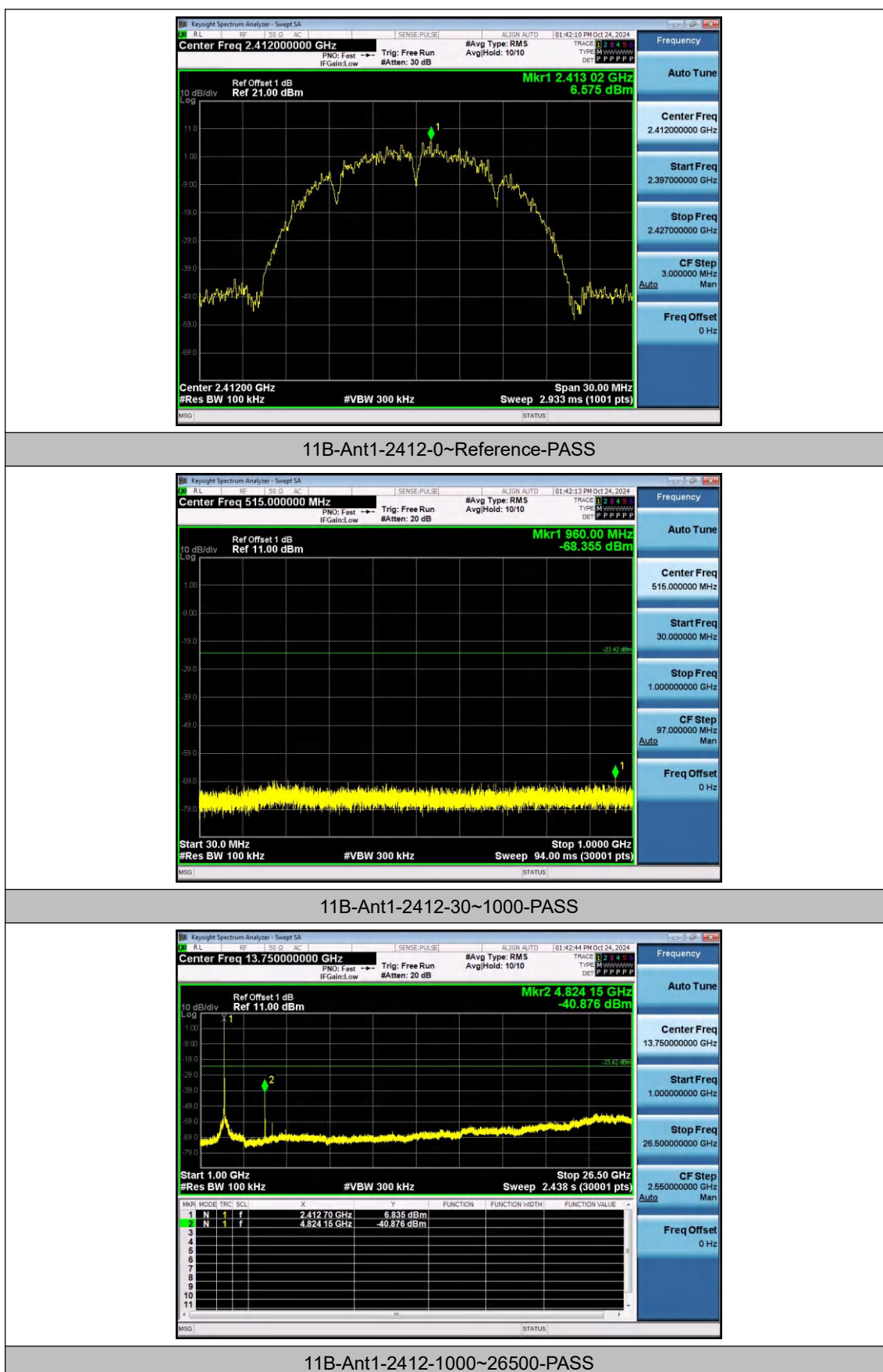
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	6.58	6.58	---	PASS
11B	Ant1	2412	30~1000	6.58	-68.36	≤-23.42	PASS
11B	Ant1	2412	1000~26500	6.58	-40.88	≤-23.42	PASS
11B	Ant1	2437	0~Reference	5.77	5.77	---	PASS
11B	Ant1	2437	30~1000	5.77	-69.1	≤-24.23	PASS
11B	Ant1	2437	1000~26500	5.77	-42.77	≤-24.23	PASS
11B	Ant1	2462	0~Reference	7.03	7.03	---	PASS
11B	Ant1	2462	30~1000	7.03	-67.82	≤-22.97	PASS
11B	Ant1	2462	1000~26500	7.03	-44.52	≤-22.97	PASS
11G	Ant1	2412	0~Reference	2.54	2.54	---	PASS
11G	Ant1	2412	30~1000	2.54	-68.12	≤-27.46	PASS
11G	Ant1	2412	1000~26500	2.54	-51.24	≤-27.46	PASS
11G	Ant1	2437	0~Reference	3.02	3.02	---	PASS
11G	Ant1	2437	30~1000	3.02	-68.39	≤-26.98	PASS
11G	Ant1	2437	1000~26500	3.02	-50.26	≤-26.98	PASS
11G	Ant1	2462	0~Reference	4.06	4.06	---	PASS
11G	Ant1	2462	30~1000	4.06	-67.73	≤-25.94	PASS
11G	Ant1	2462	1000~26500	4.06	-53.97	≤-25.94	PASS
11N20SISO	Ant1	2412	0~Reference	0.45	0.45	---	PASS
11N20SISO	Ant1	2412	30~1000	0.45	-67.3	≤-29.55	PASS
11N20SISO	Ant1	2412	1000~26500	0.45	-51.13	≤-29.55	PASS
11N20SISO	Ant1	2437	0~Reference	1.80	1.80	---	PASS
11N20SISO	Ant1	2437	30~1000	1.80	-68.66	≤-28.2	PASS
11N20SISO	Ant1	2437	1000~26500	1.80	-52.81	≤-28.2	PASS
11N20SISO	Ant1	2462	0~Reference	1.46	1.46	---	PASS
11N20SISO	Ant1	2462	30~1000	1.46	-68.89	≤-28.54	PASS
11N20SISO	Ant1	2462	1000~26500	1.46	-53.5	≤-28.54	PASS



Test Graphs



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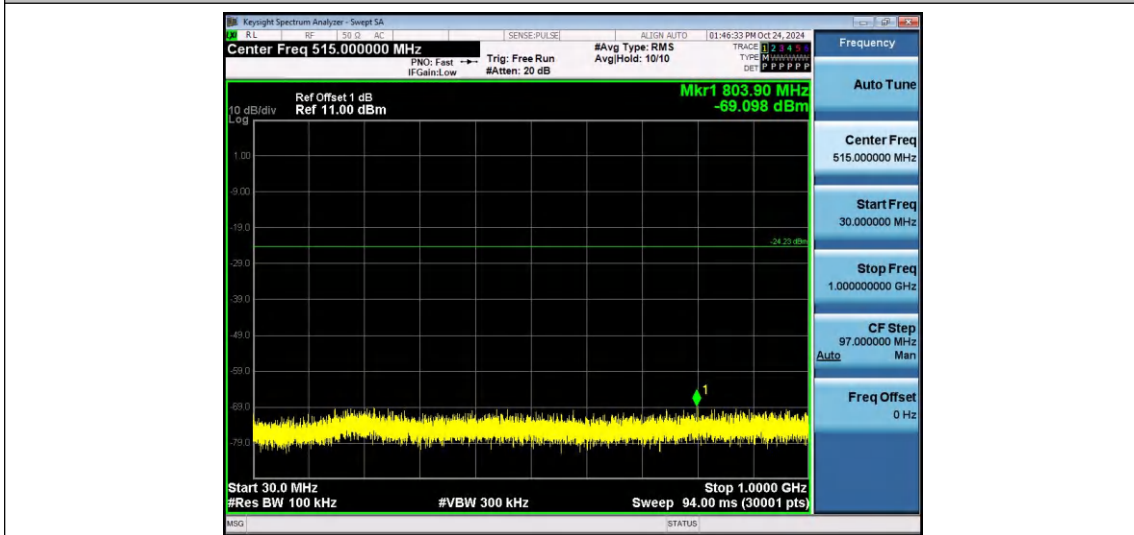
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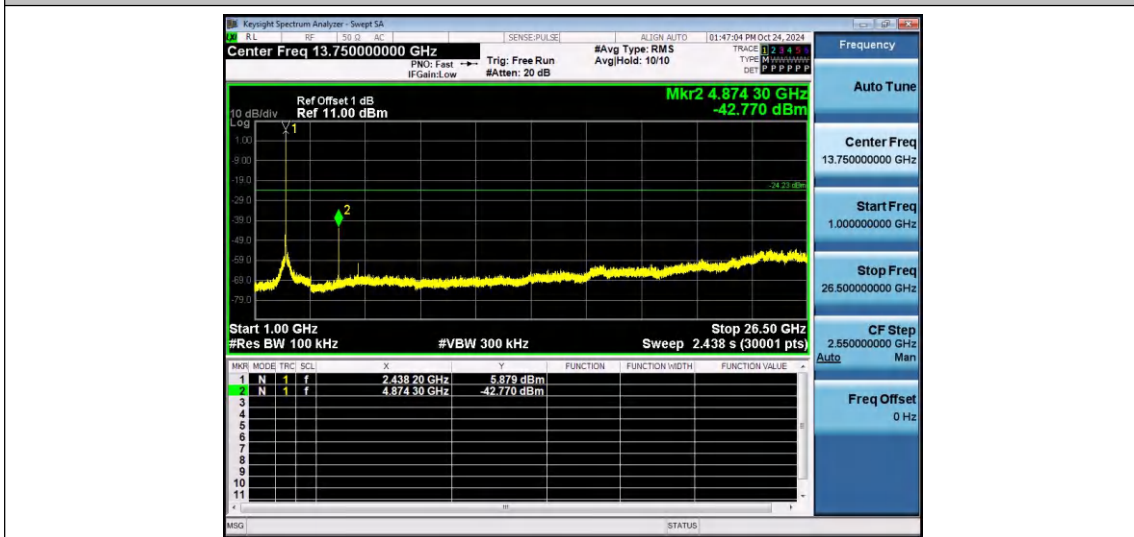




11B-Ant1-2437-0~Reference-PASS



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

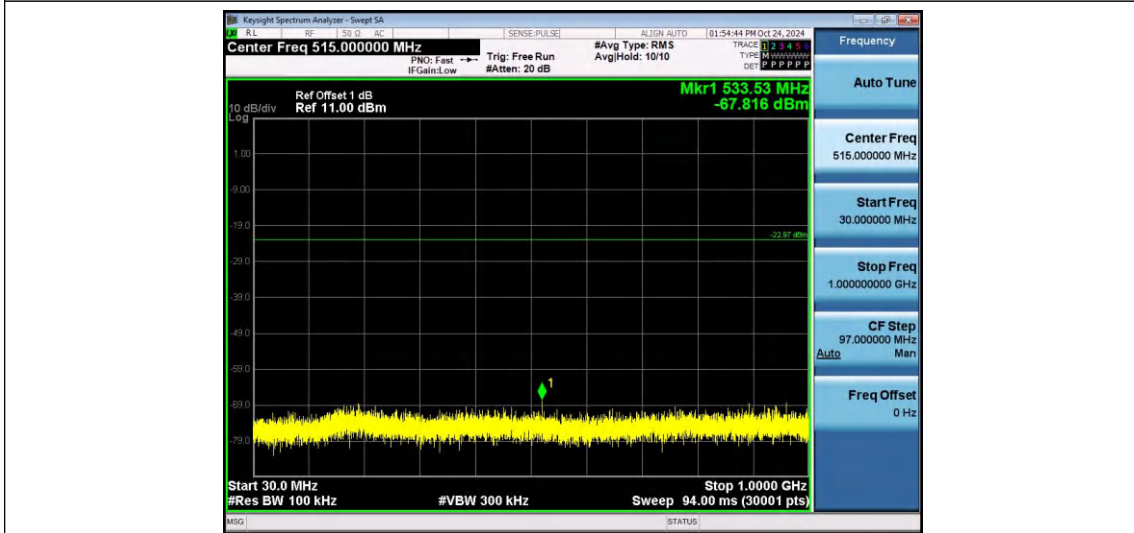


11B-Ant1-2437-1000~26500-PASS

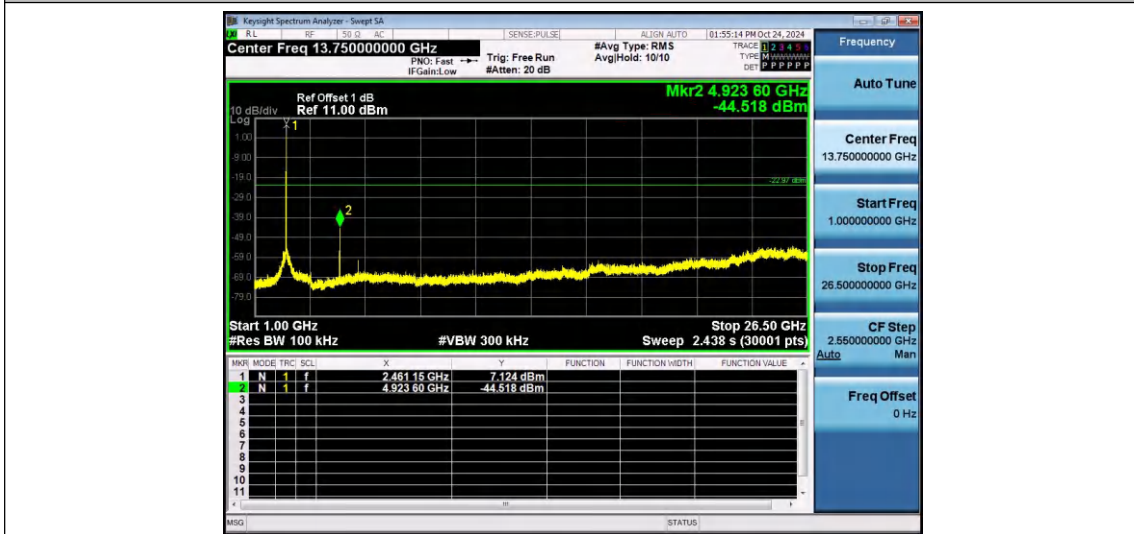




11B-Ant1-2462-0~Reference-PASS

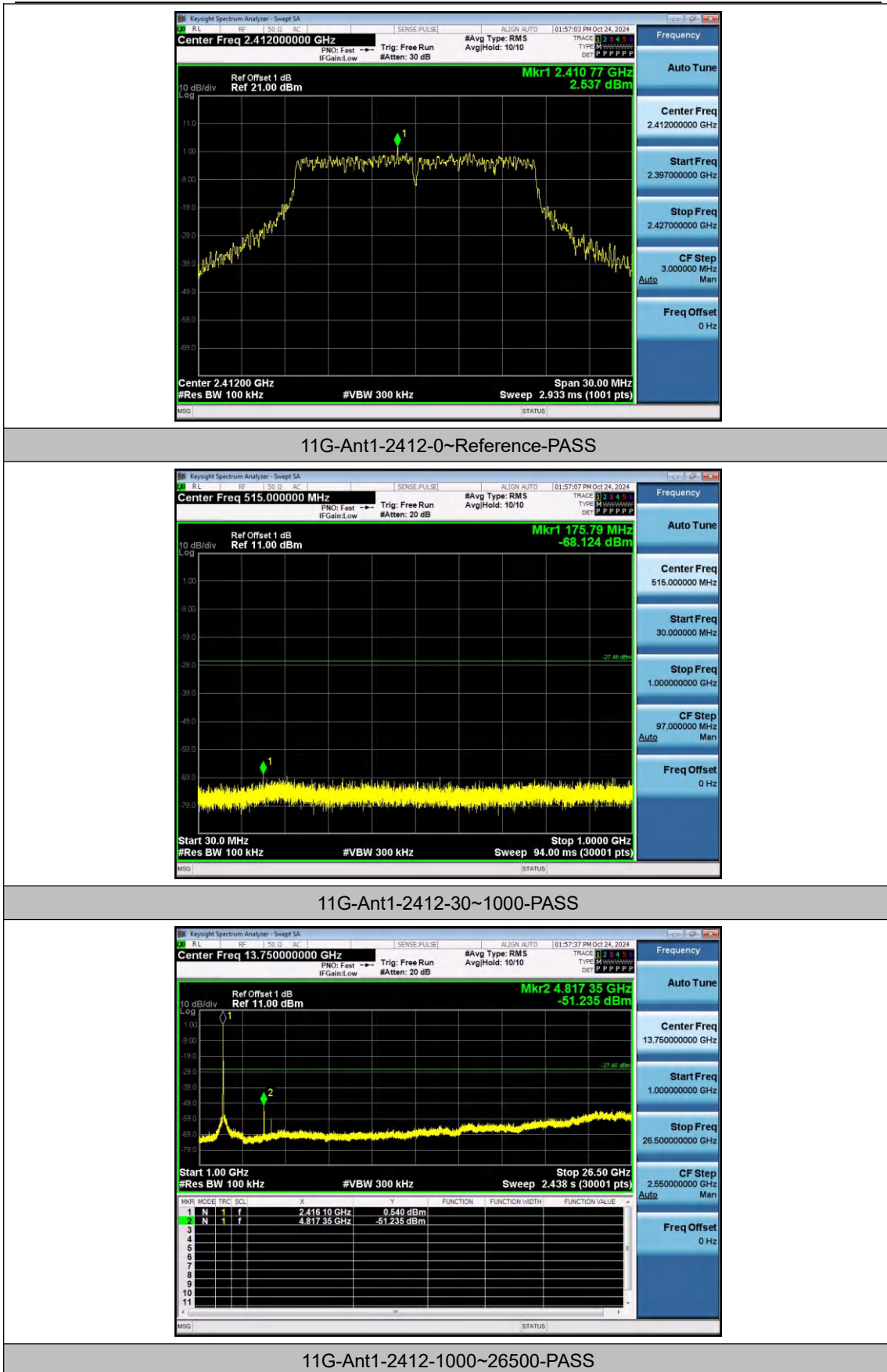


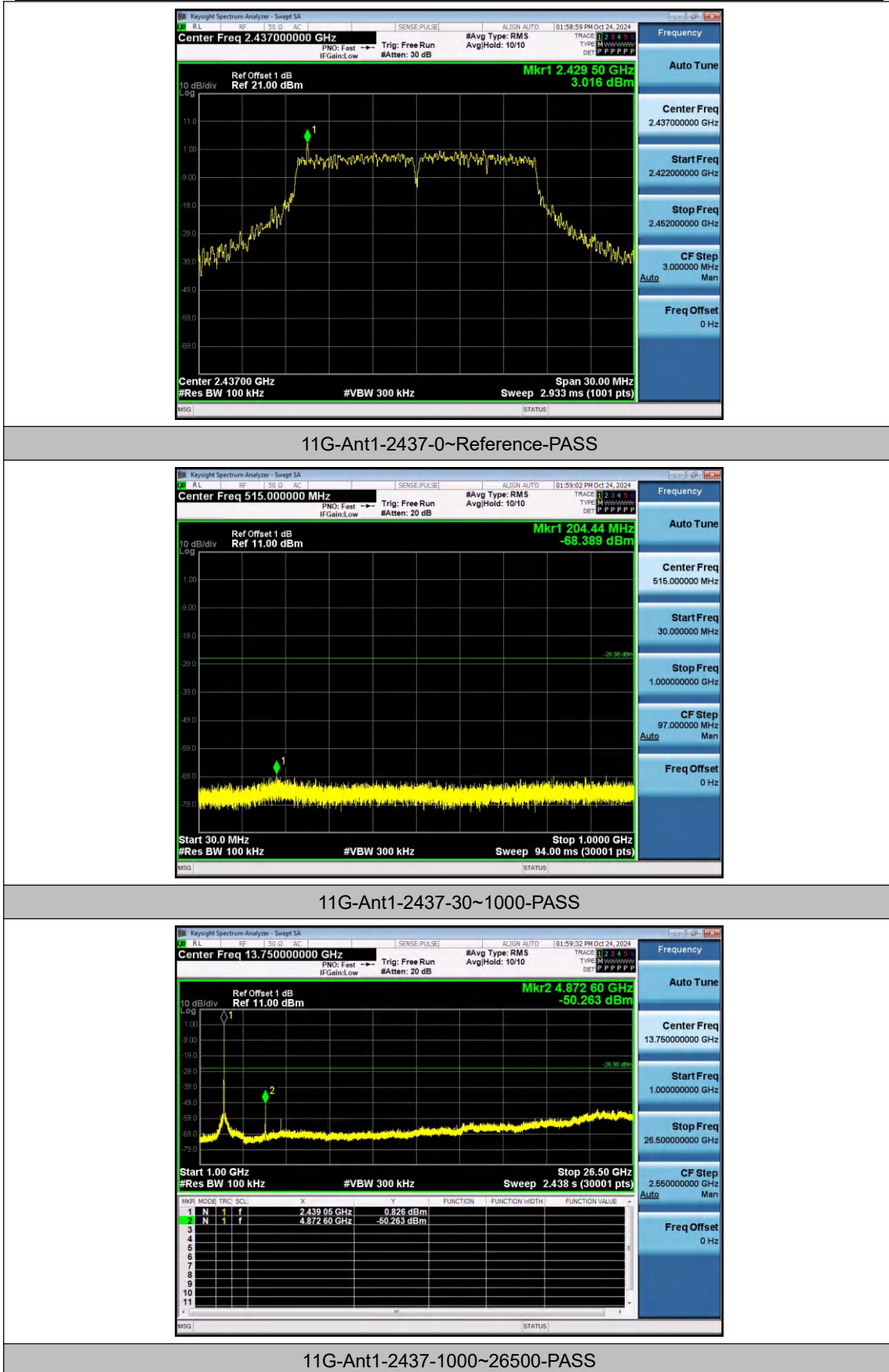
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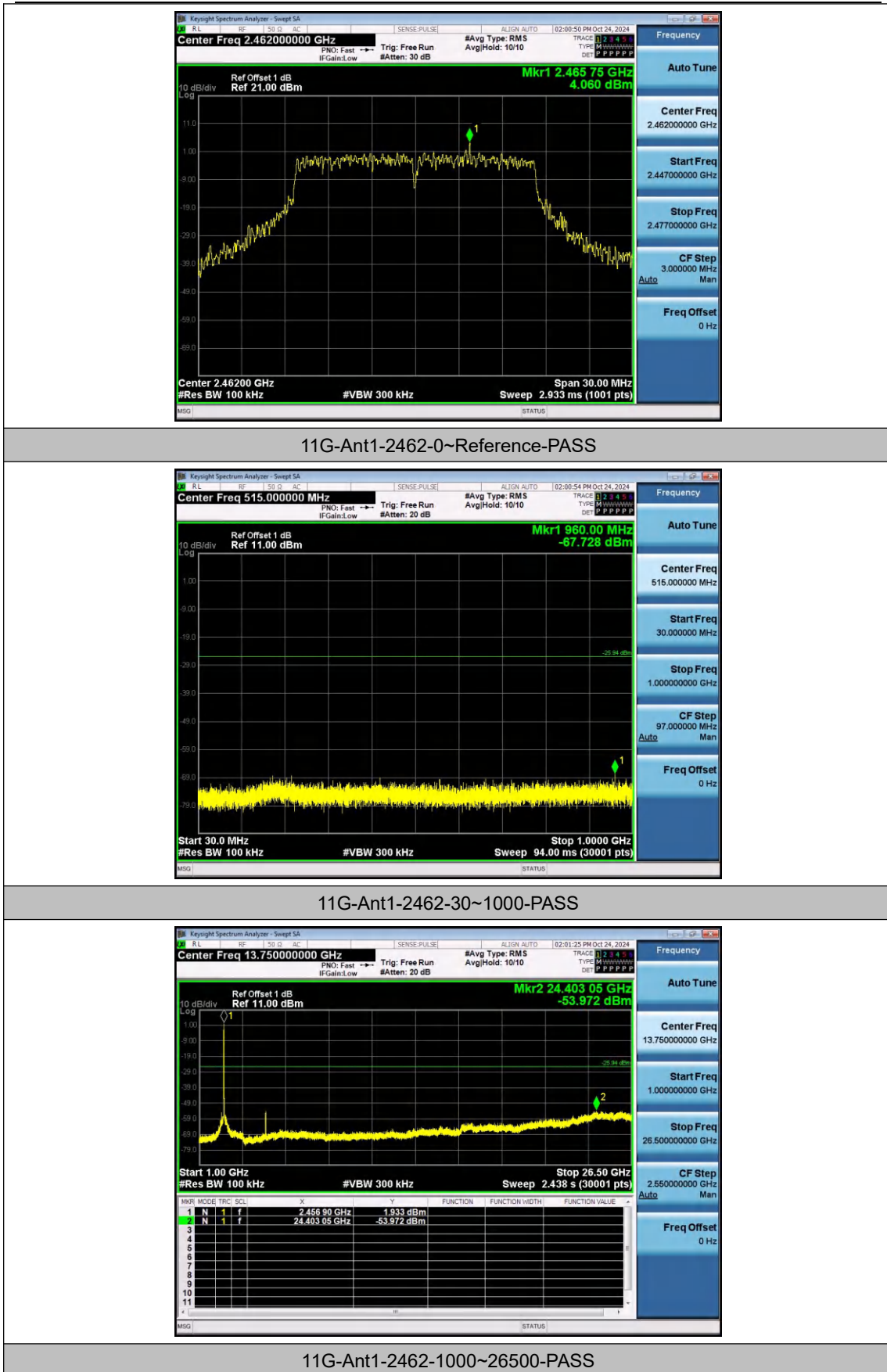


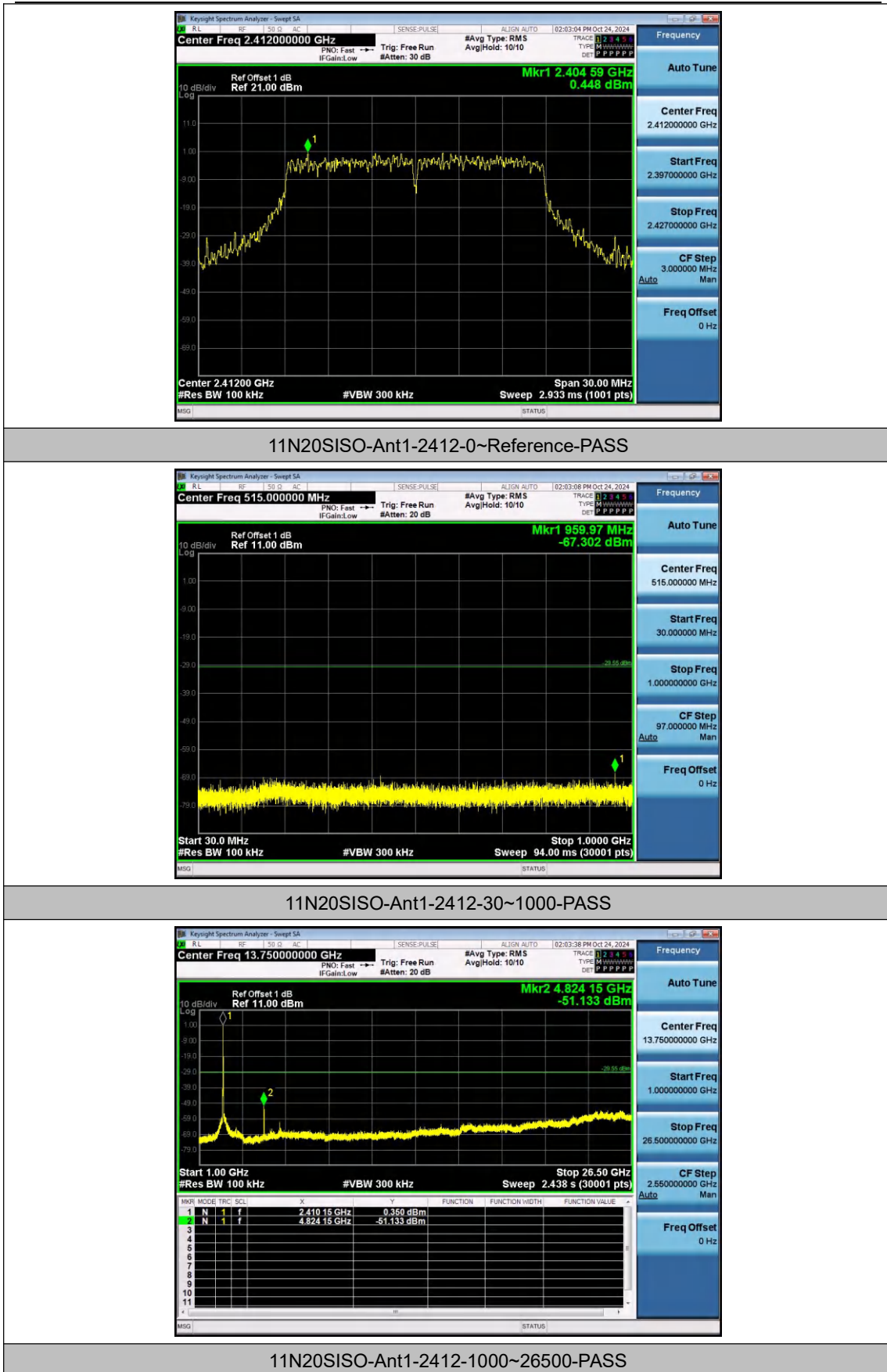
11B-Ant1-2462-1000~26500-PASS





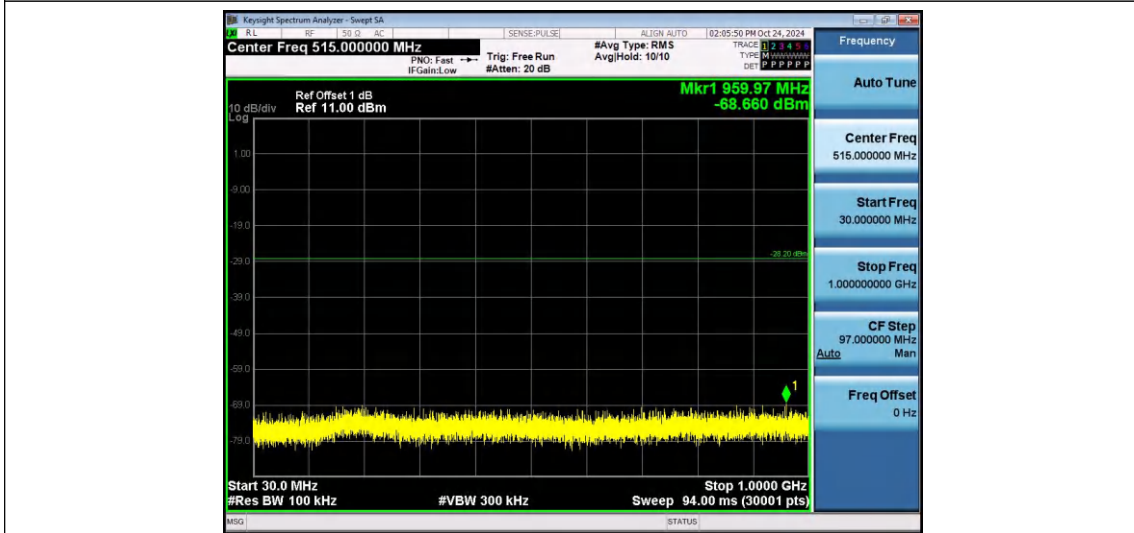




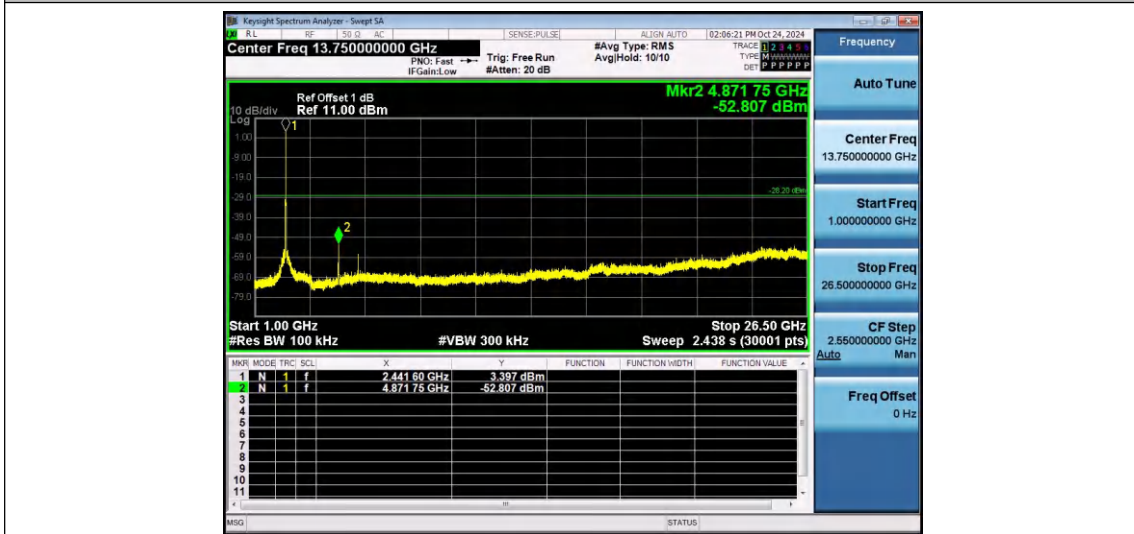




11N20SISO-Ant1-2437-0~Reference-PASS



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

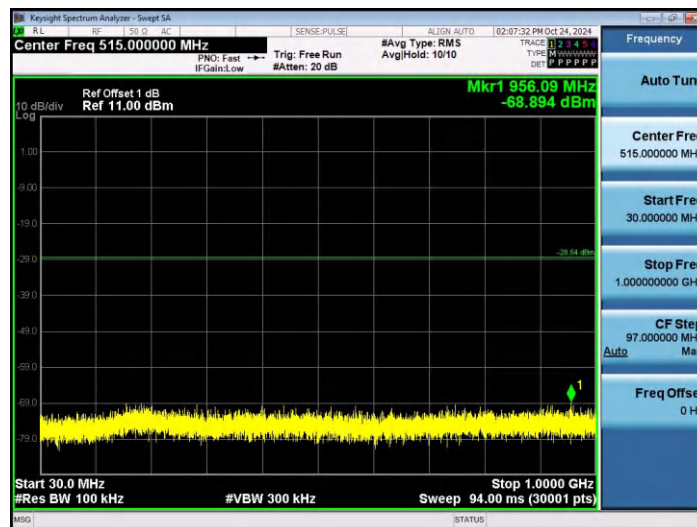


11N20SISO-Ant1-2437-1000~26500-PASS

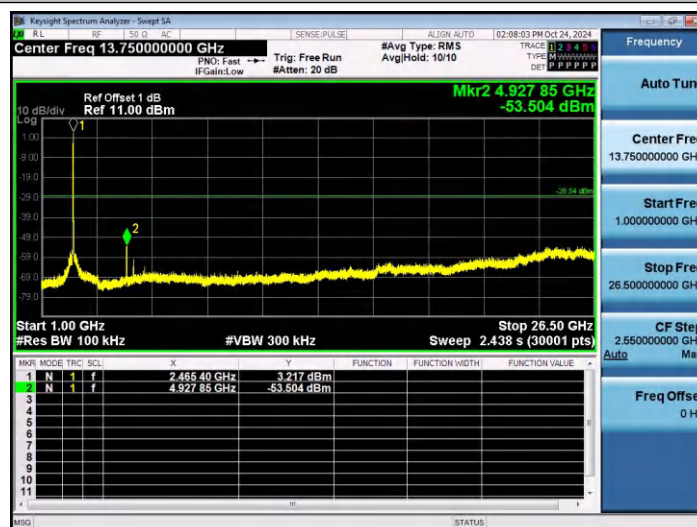




11N20SISO-Ant1-2462-0~Reference-PASS



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



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

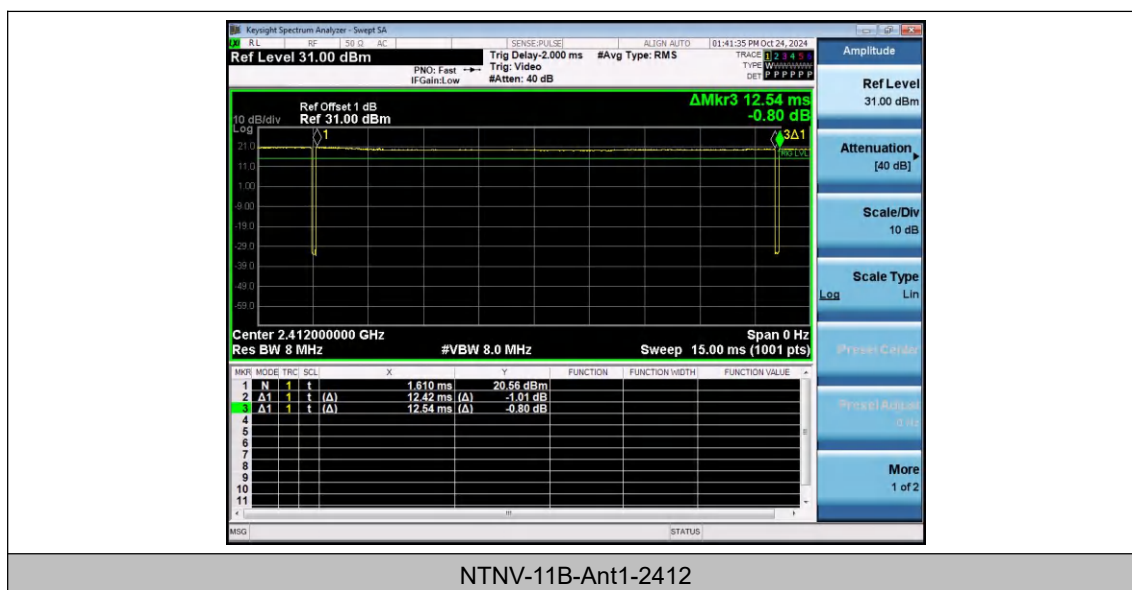


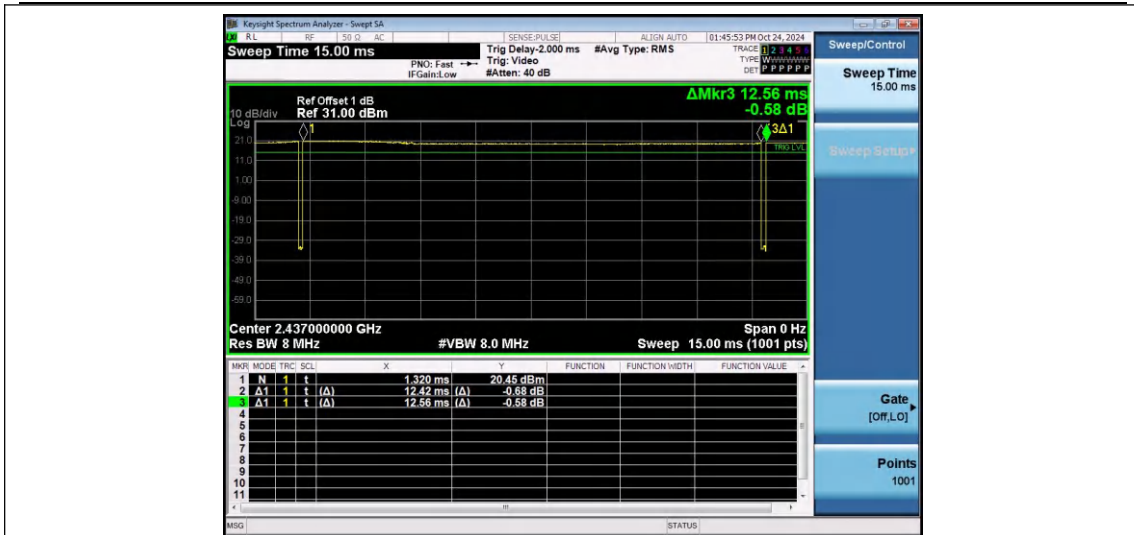
Appendix G: Duty Cycle

Test Result

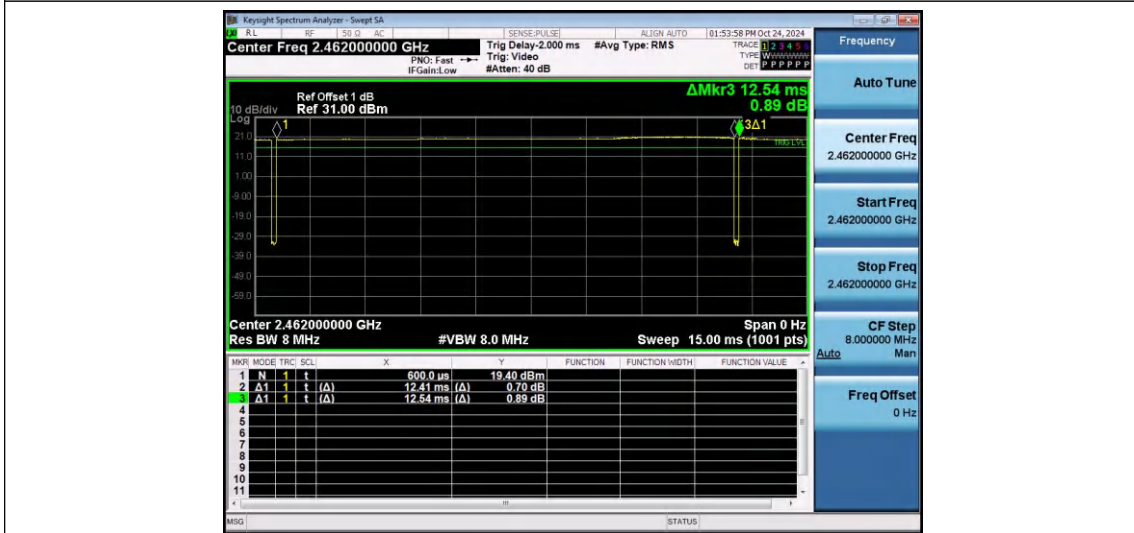
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.42	12.54	99.04	0.04
11B	Ant1	2437	12.42	12.56	98.89	0.05
11B	Ant1	2462	12.41	12.54	98.96	0.05
11G	Ant1	2412	2.06	2.19	94.06	0.27
11G	Ant1	2437	2.07	2.20	94.09	0.26
11G	Ant1	2462	2.07	2.20	94.09	0.26
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

Test Graphs

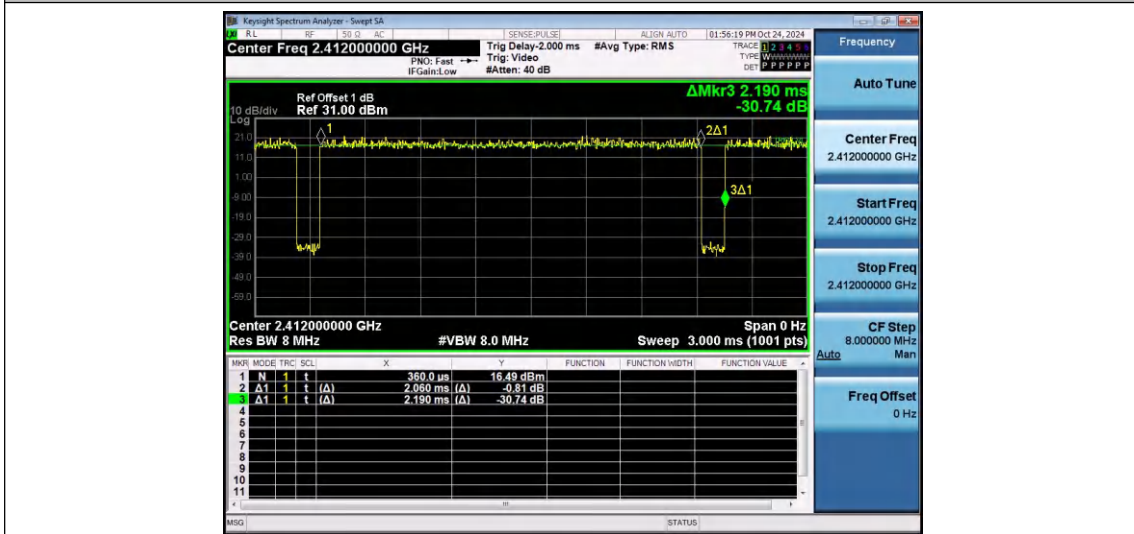




NTNV-11B-Ant1-2437

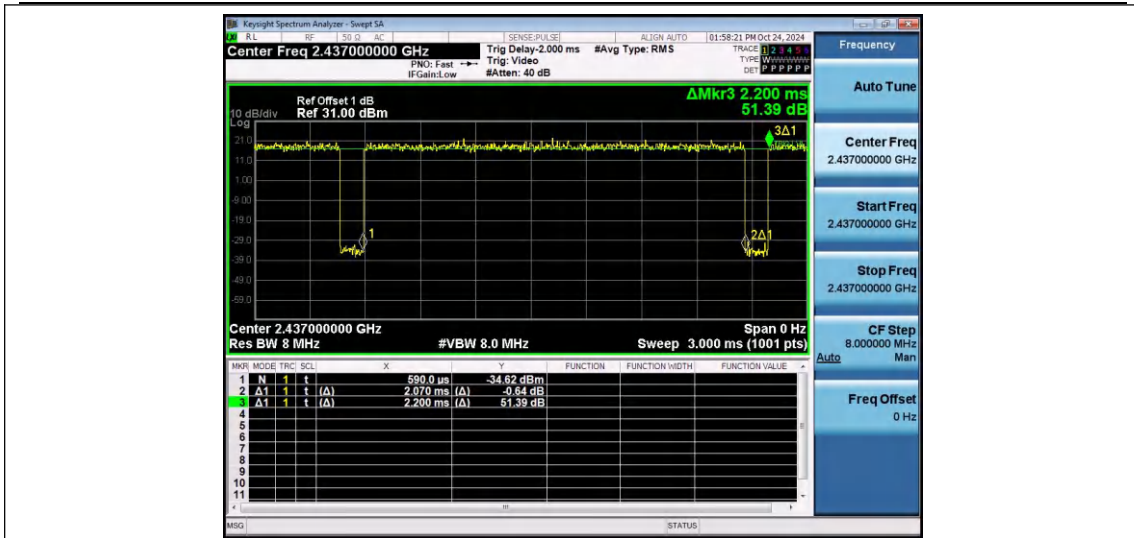


NTNV-11B-Ant1-2462

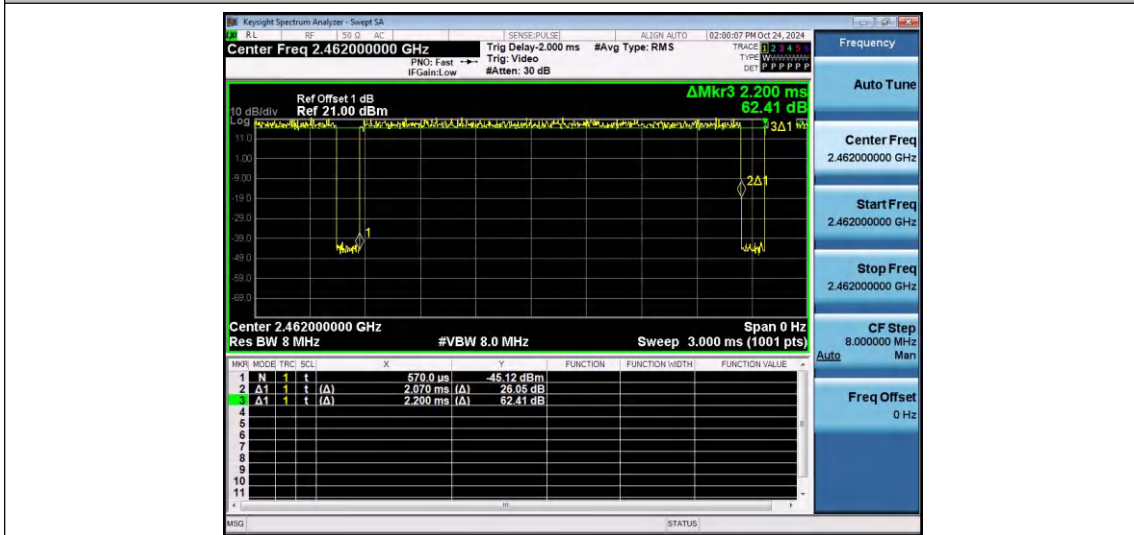


NTNV-11G-Ant1-2412

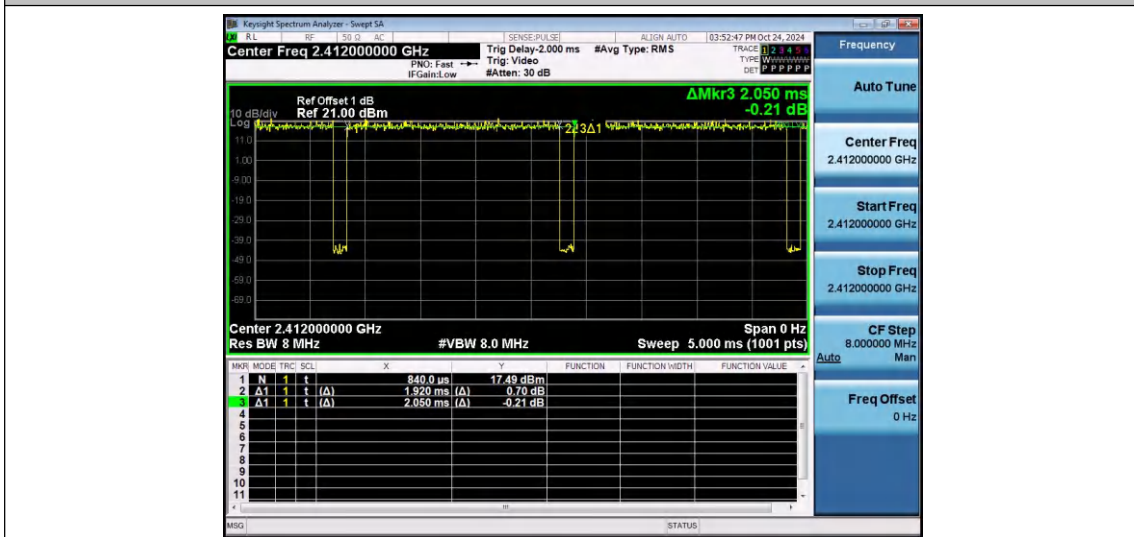




NTNV-11G-Ant1-2437

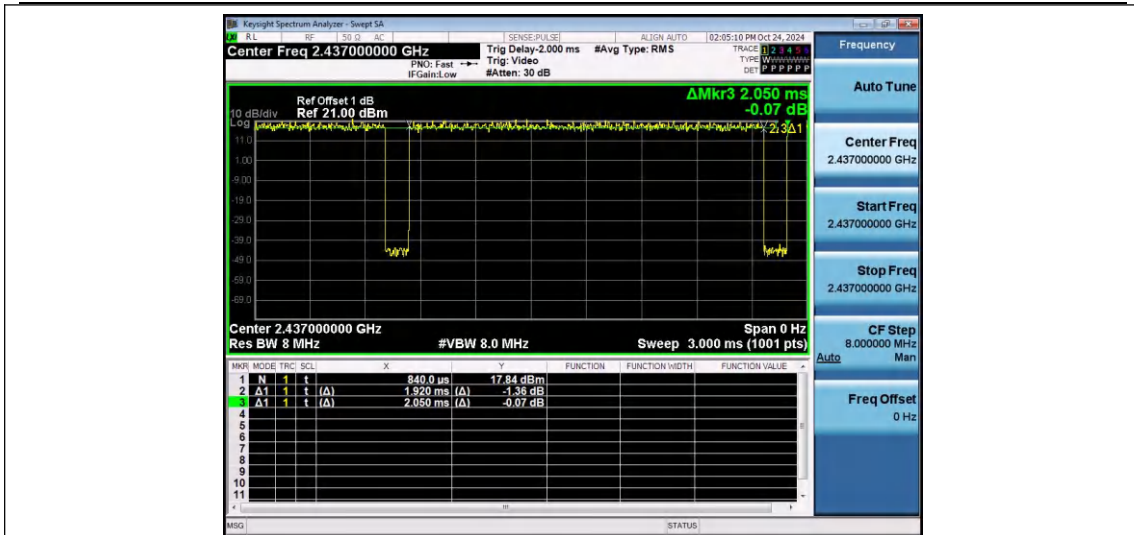


NTNV-11G-Ant1-2462

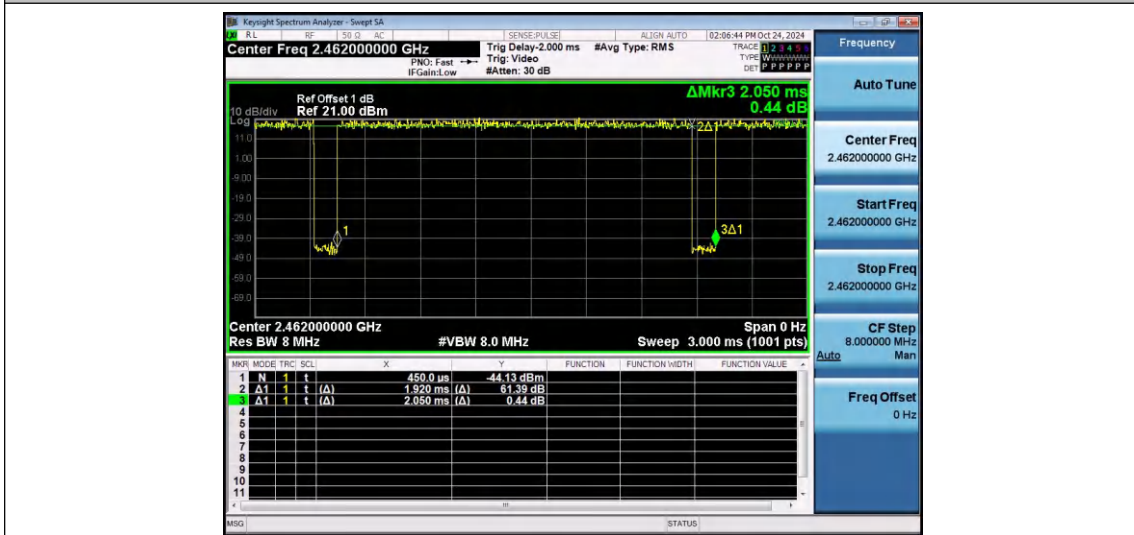


NTNV-11N20SISO-Ant1-2412





NTNV-11N20SISO-Ant1-2437



NTNV-11N20SISO-Ant1-2462

---End---

