

Appendix Test Data

Report No.:	182512C400025102	Test Sample No.:	1-2-2
Start Test Date:	2024.05.22	Finish Test Date:	2024.05.23
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	26.1℃	Relative Humidity:	44%
Pressure:	101kPa		

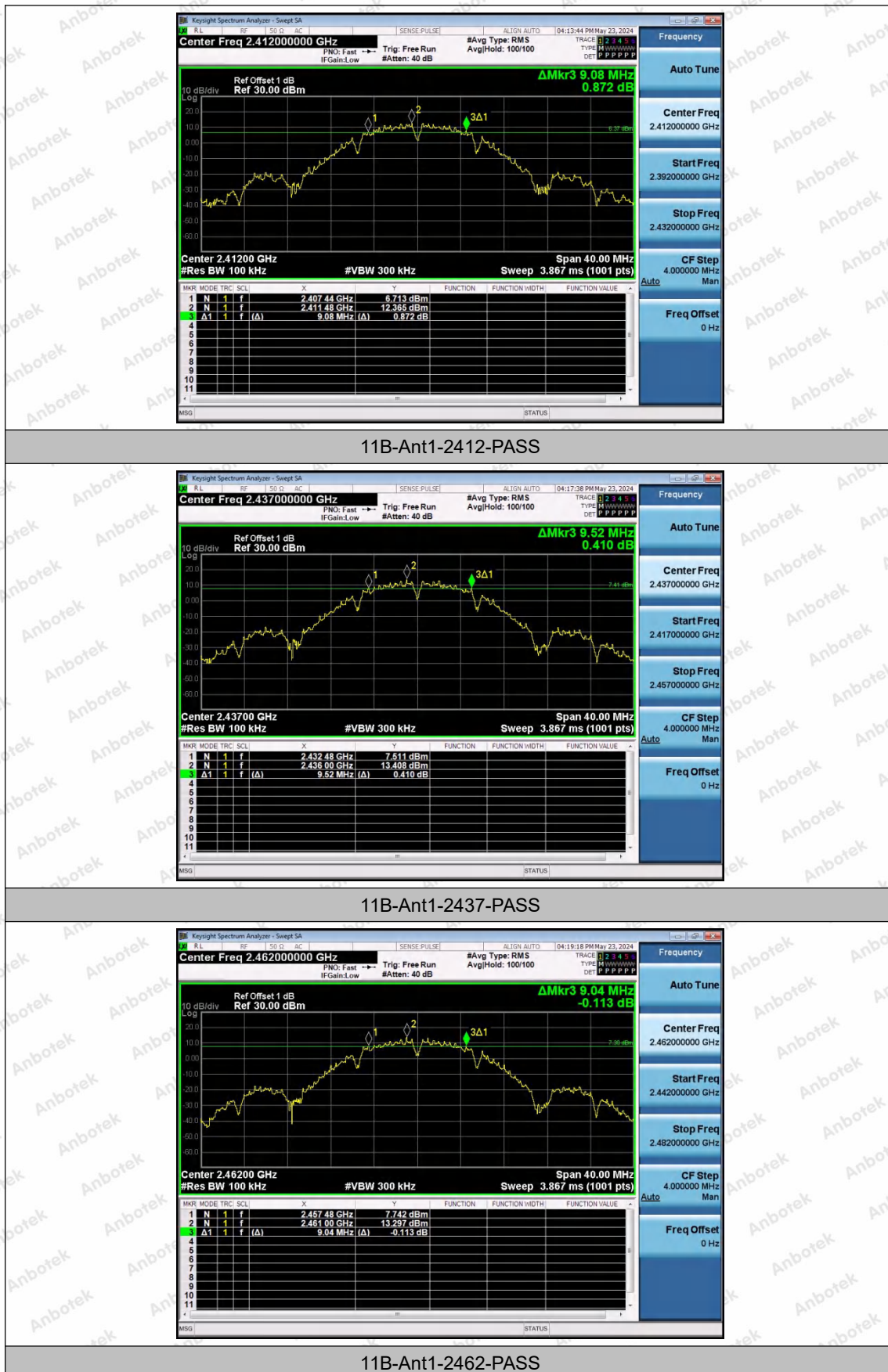
Appendix A: 6dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.080	2407.440	2416.520	0.5	PASS
11B	Ant1	2437	9.520	2432.480	2442.000	0.5	PASS
11B	Ant1	2462	9.040	2457.480	2466.520	0.5	PASS
11G	Ant1	2412	15.080	2404.480	2419.560	0.5	PASS
11G	Ant1	2437	15.680	2429.240	2444.920	0.5	PASS
11G	Ant1	2462	15.120	2454.440	2469.560	0.5	PASS
11N20SISO	Ant1	2412	15.920	2404.480	2420.400	0.5	PASS
11N20SISO	Ant1	2437	13.840	2430.680	2444.520	0.5	PASS
11N20SISO	Ant1	2462	15.080	2454.480	2469.560	0.5	PASS



Test Graphs



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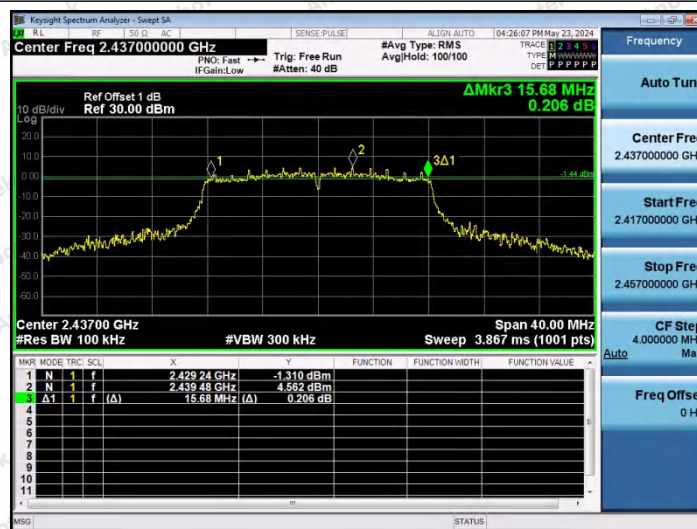


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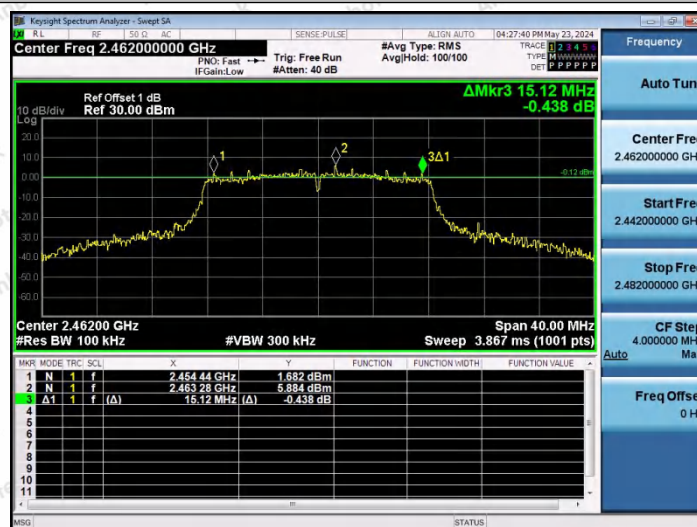




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

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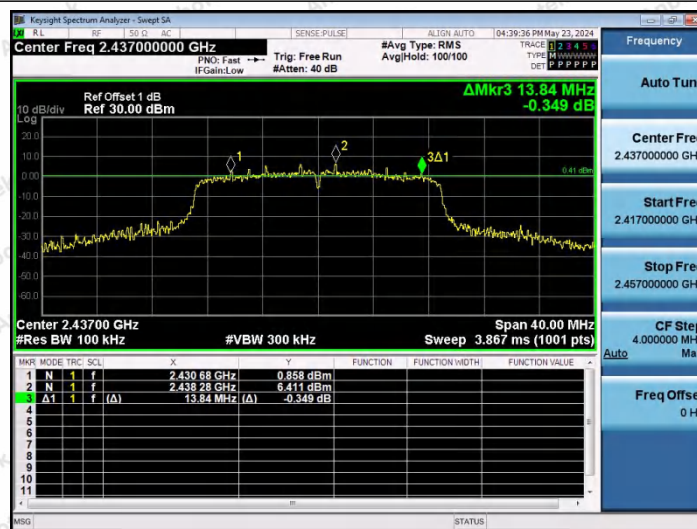
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11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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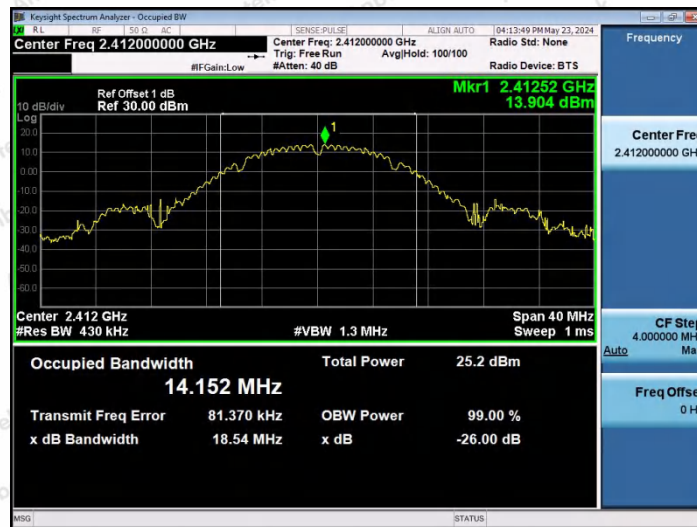
Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.152	2405.0054	2419.1574	---	---
11B	Ant1	2437	14.514	2429.8218	2444.3358	---	---
11B	Ant1	2462	14.600	2454.7705	2469.3705	---	---
11G	Ant1	2412	16.650	2403.7370	2420.3870	---	---
11G	Ant1	2437	16.694	2428.7074	2445.4014	---	---
11G	Ant1	2462	16.654	2453.6939	2470.3479	---	---
11N20SISO	Ant1	2412	17.492	2403.3030	2420.7950	---	---
11N20SISO	Ant1	2437	17.468	2428.3195	2445.7875	---	---
11N20SISO	Ant1	2462	17.486	2453.2860	2470.7720	---	---



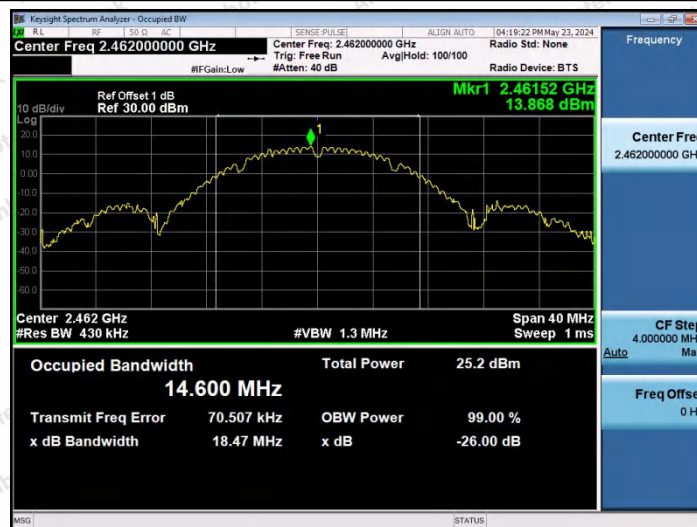
Test Graphs



11B-Ant1-2412



11B-Ant1-2437



11B-Ant1-2462

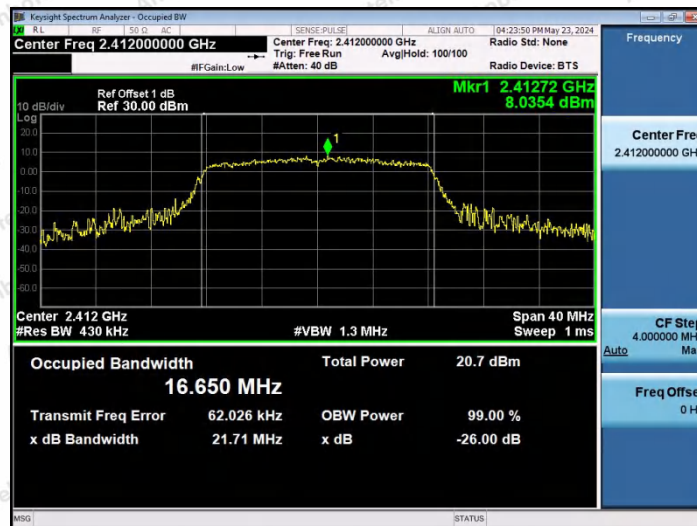
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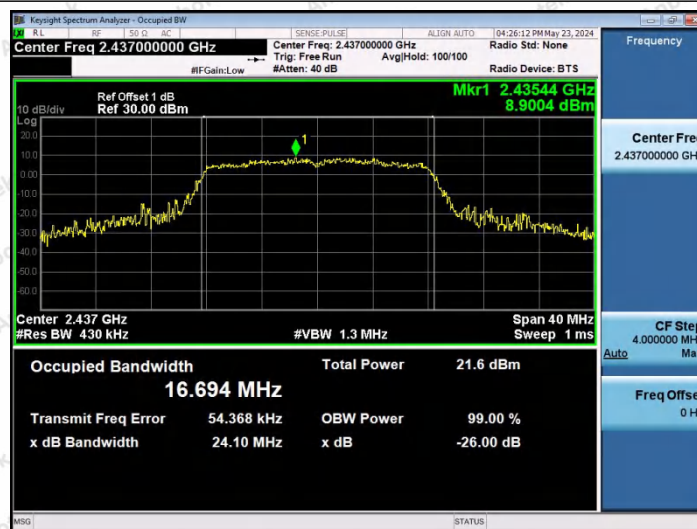


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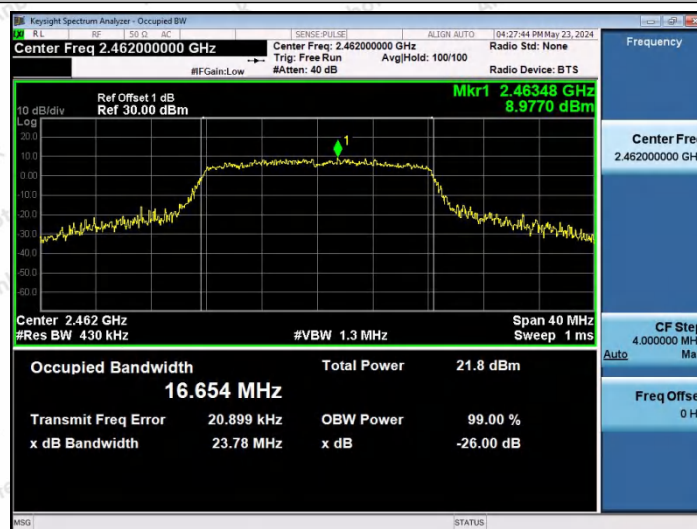




11G-Ant1-2412



11G-Ant1-2437



11G-Ant1-2462

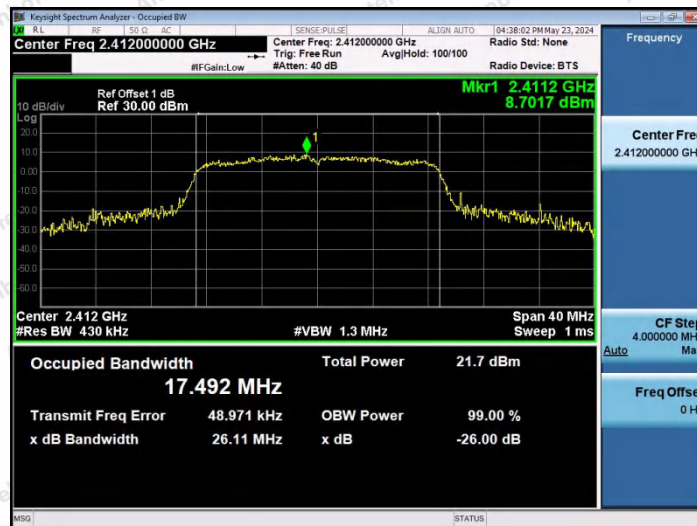
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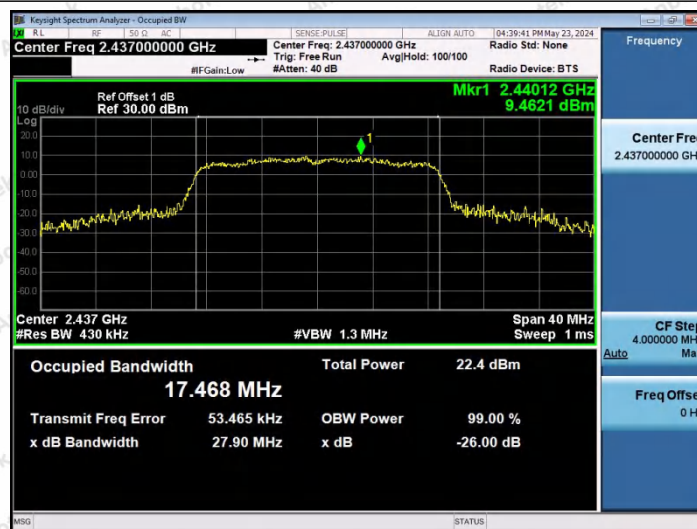


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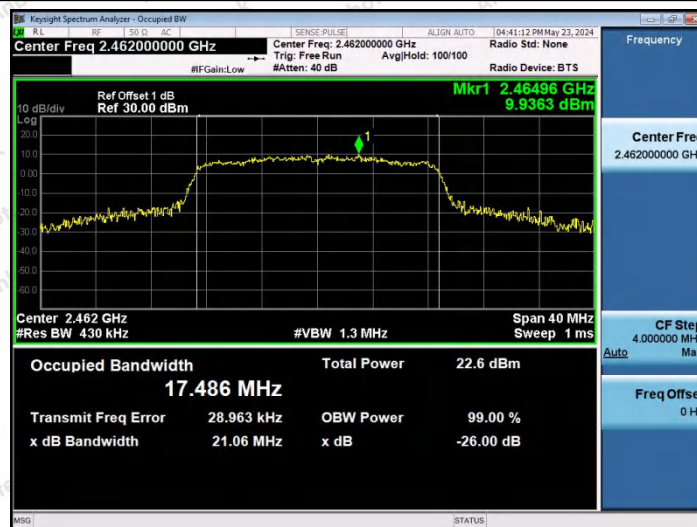




11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



11N20SISO-Ant1-2462

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Appendix C: Maximum conducted output power

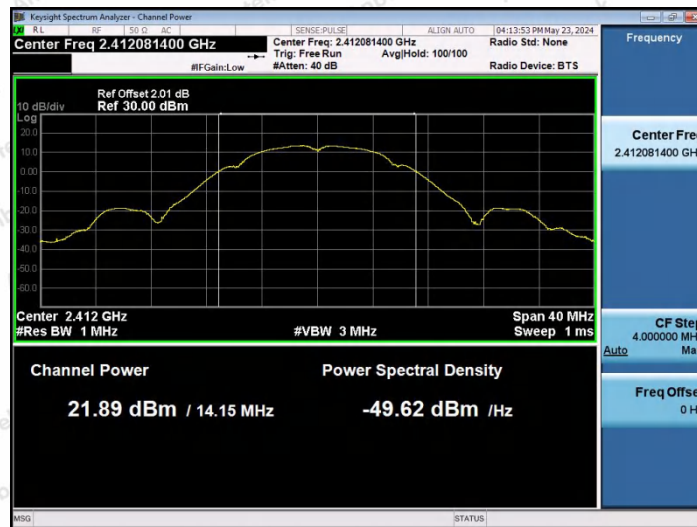
Test Result Average

Test Mode	Antenna	Frequency[MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	20.88	79.22	1.01	21.89	≤30.00	PASS
11B	Ant1	2437	21.46	79.74	0.98	22.44	≤30.00	PASS
11B	Ant1	2462	21.17	77.36	1.11	22.28	≤30.00	PASS
11G	Ant1	2412	13.60	75.34	1.23	14.83	≤30.00	PASS
11G	Ant1	2437	14.48	76.06	1.19	15.67	≤30.00	PASS
11G	Ant1	2462	14.74	78.26	1.06	15.80	≤30.00	PASS
11N20SISO	Ant1	2412	14.37	75.34	1.23	15.60	≤30.00	PASS
11N20SISO	Ant1	2437	15.27	74.32	1.29	16.56	≤30.00	PASS
11N20SISO	Ant1	2462	15.39	78.57	1.05	16.44	≤30.00	PASS

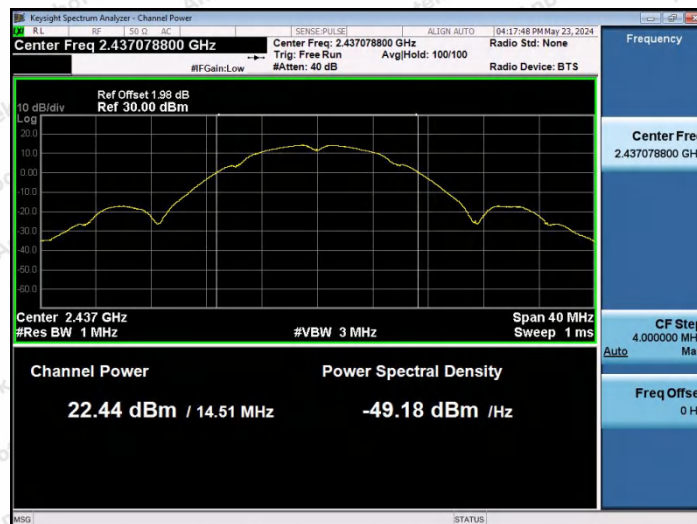
Note: The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.



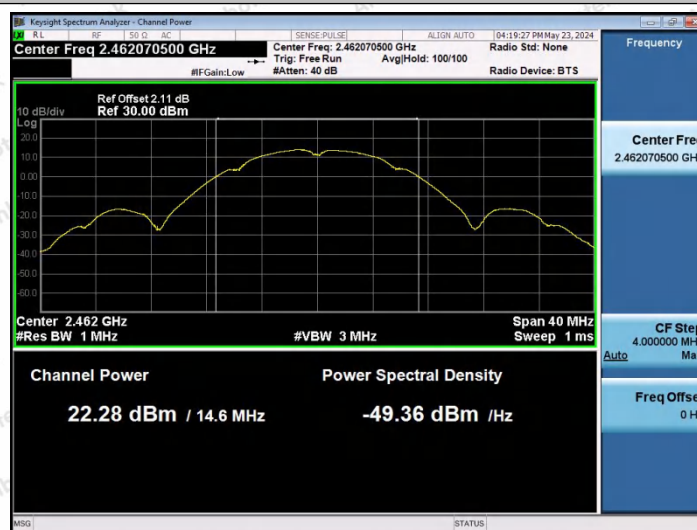
Test Graphs Average



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

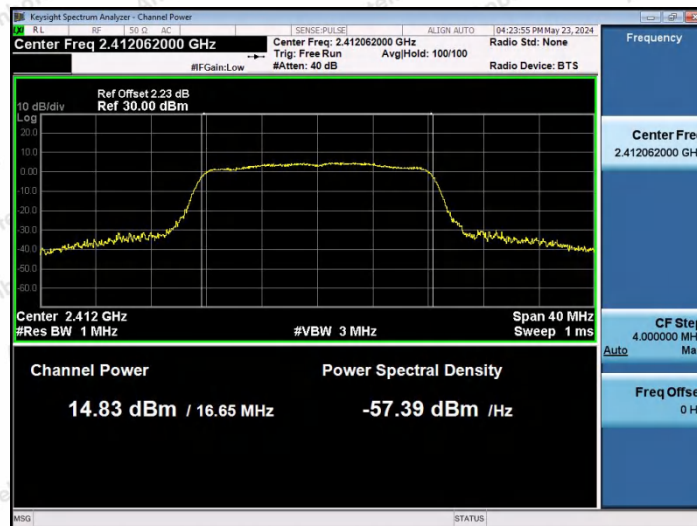
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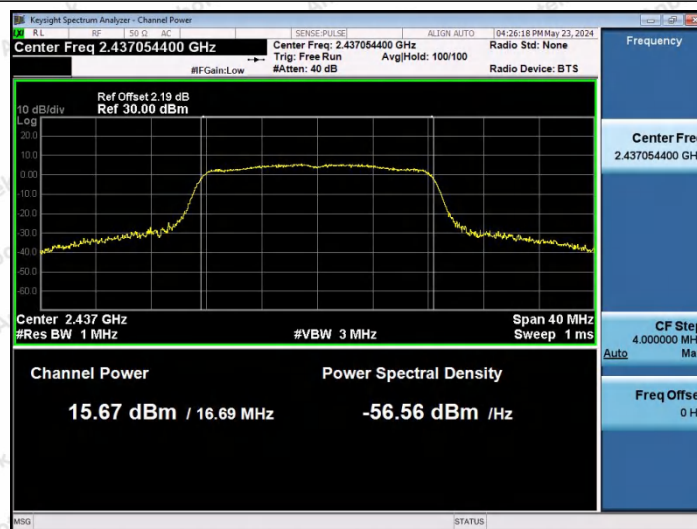


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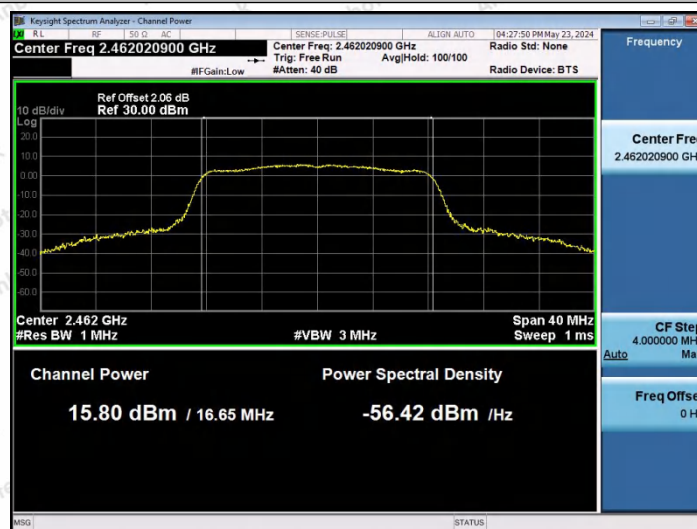




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

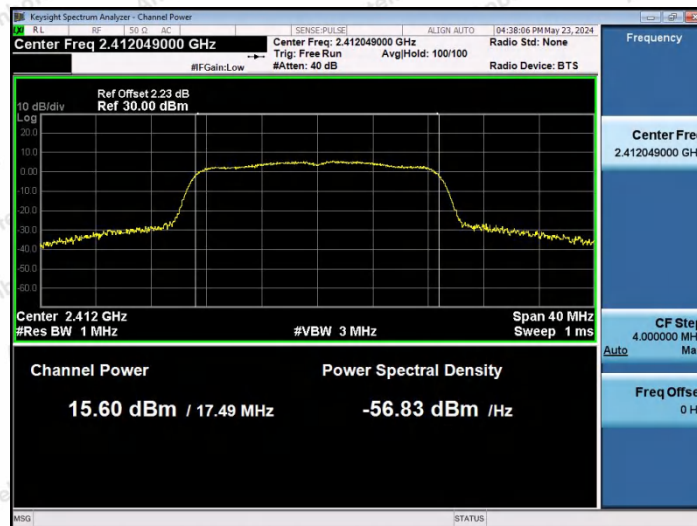
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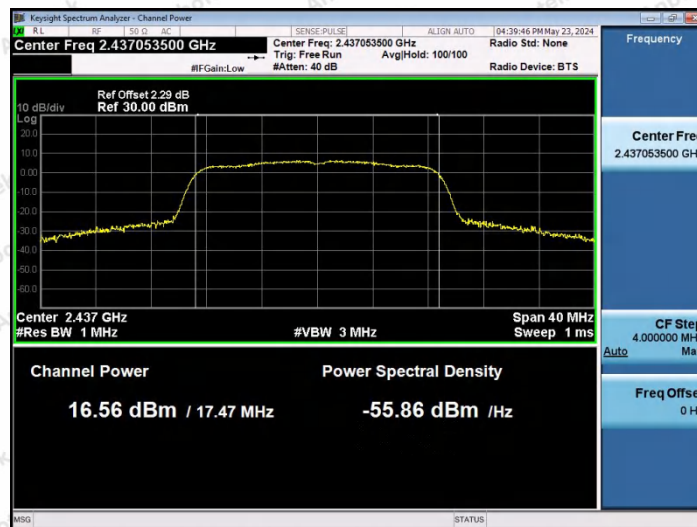


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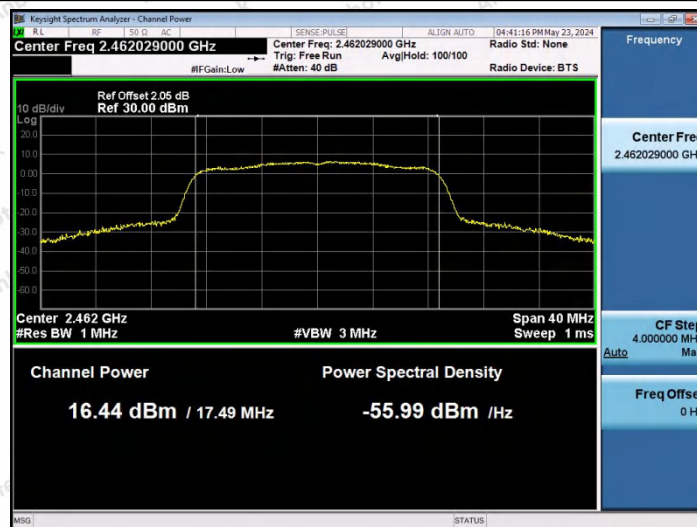




11N20SISO-Ant1-2412-PASS



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	0.40	-9.60	≤8.00	PASS
11B	Ant1	2437	1.24	-8.76	≤8.00	PASS
11B	Ant1	2462	1.10	-8.90	≤8.00	PASS
11G	Ant1	2412	-8.04	-18.04	≤8.00	PASS
11G	Ant1	2437	-7.65	-17.65	≤8.00	PASS
11G	Ant1	2462	-6.58	-16.58	≤8.00	PASS
11N20SIS O	Ant1	2412	-7.28	-17.28	≤8.00	PASS
11N20SIS O	Ant1	2437	-6.81	-16.81	≤8.00	PASS
11N20SIS O	Ant1	2462	-6.43	-16.43	≤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

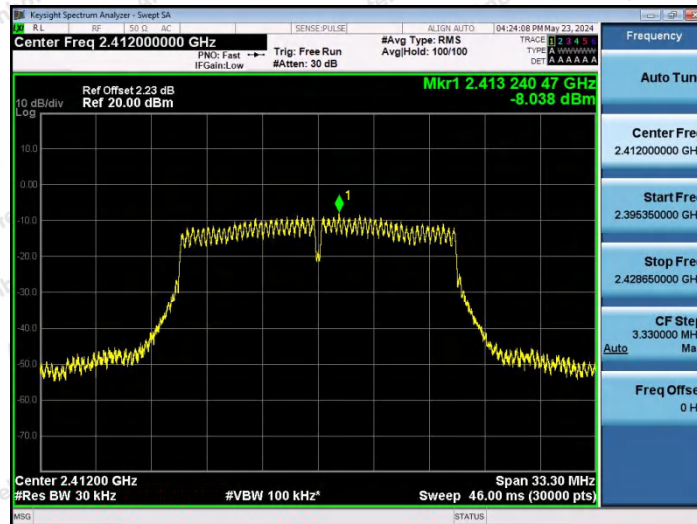
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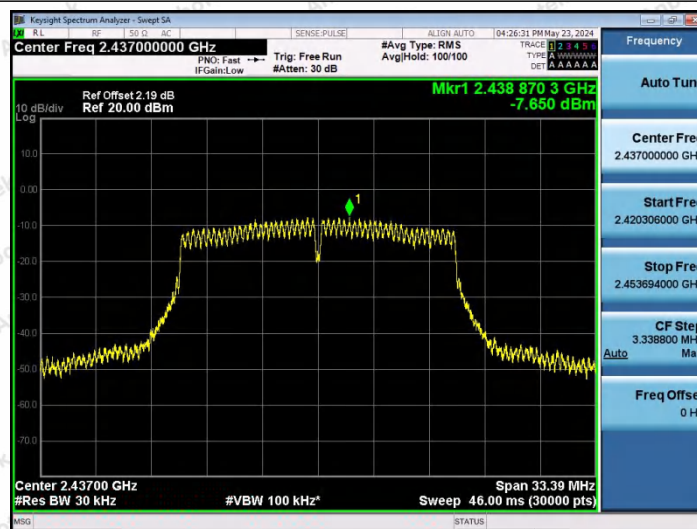


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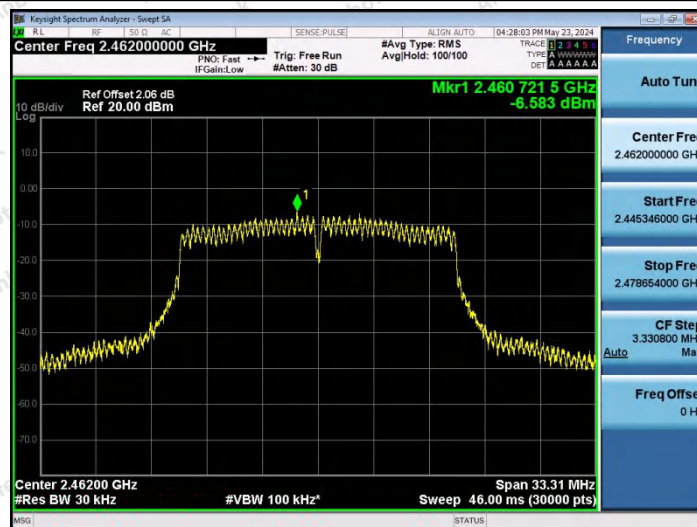




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

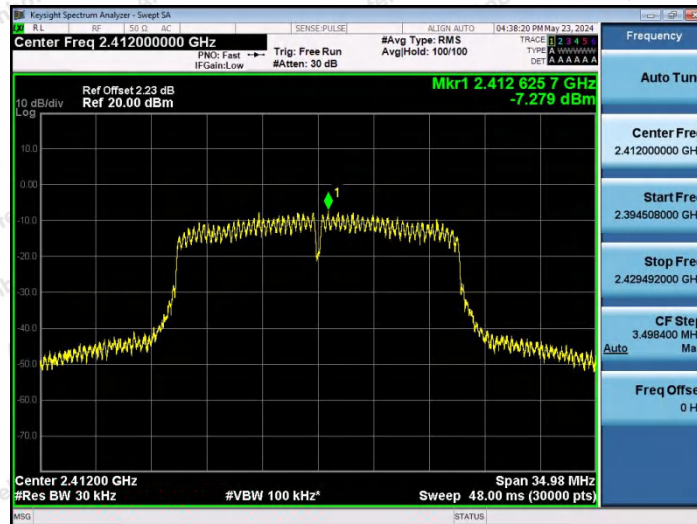
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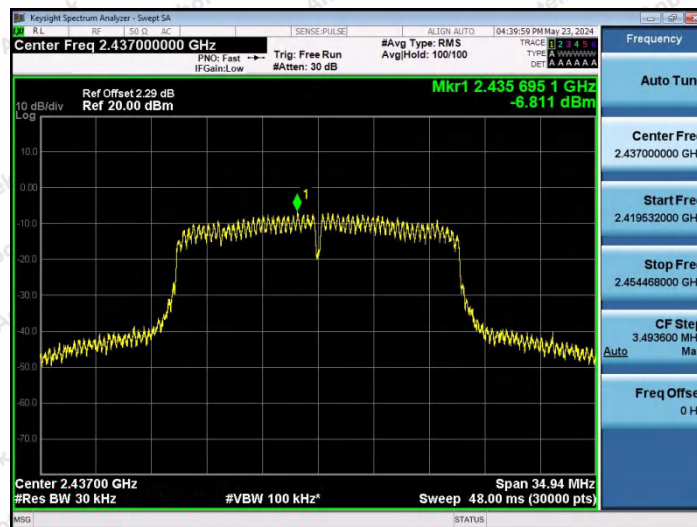


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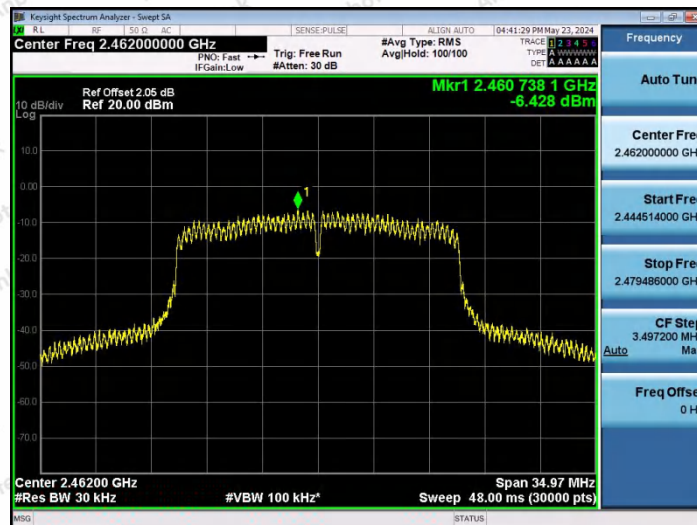




11N20SISO-Ant1-2412-PASS



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	13.10	-20.26	≤-16.9	PASS
11B	Ant1	High	2462	12.21	-37.39	≤-17.79	PASS
11G	Ant1	Low	2412	4.89	-27.25	≤-25.11	PASS
11G	Ant1	High	2462	5.51	-38.12	≤-24.49	PASS
11N20SISO	Ant1	Low	2412	5.90	-28.15	≤-24.1	PASS
11N20SISO	Ant1	High	2462	6.51	-34.99	≤-23.49	PASS



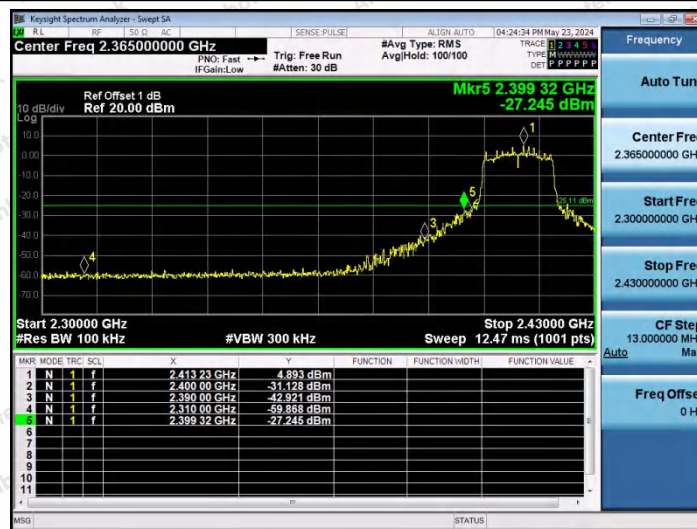
Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2462-PASS



11G-Ant1-2412-PASS

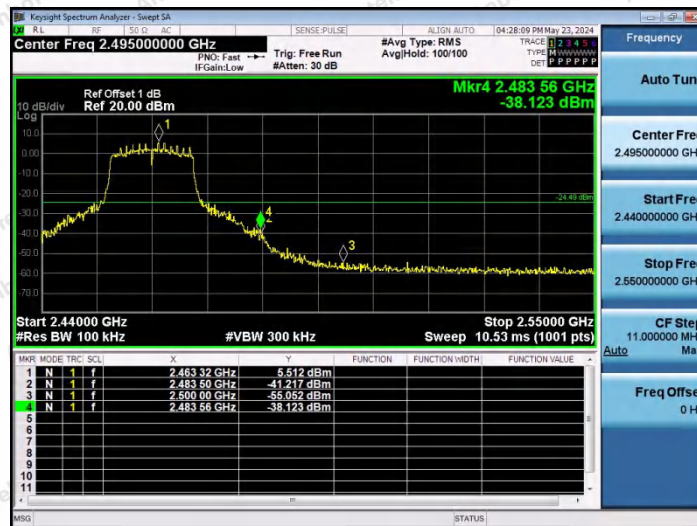
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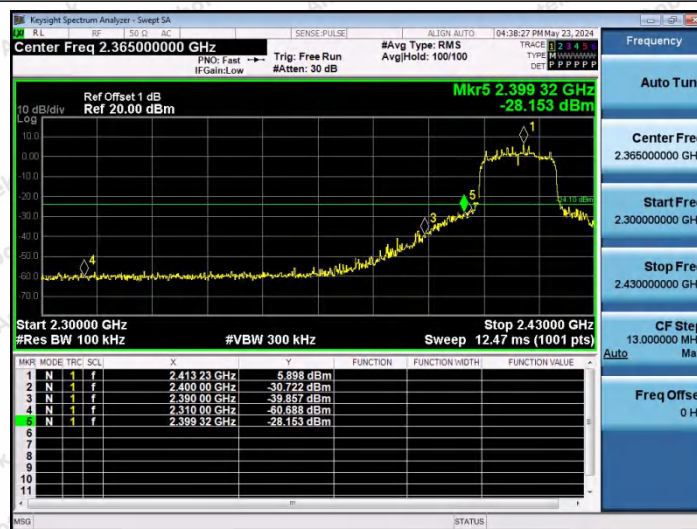


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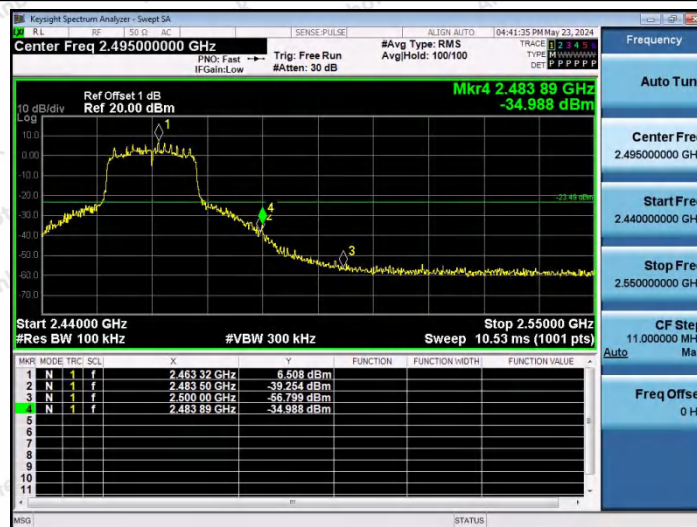




11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS

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Appendix F: Conducted Spurious Emission

Test Result

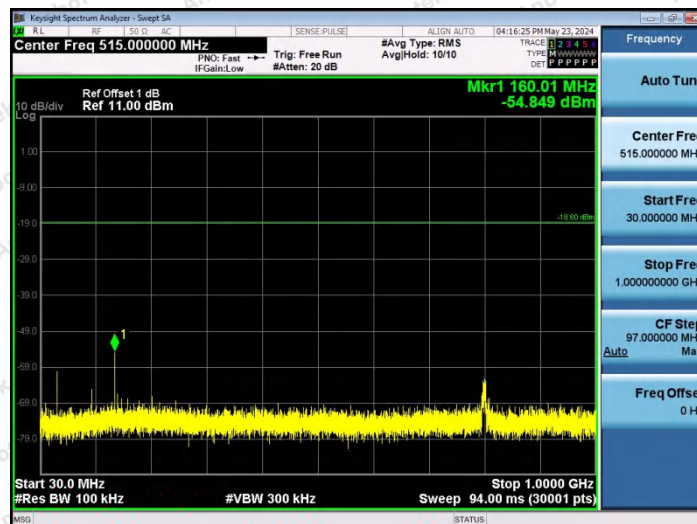
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	11.40	11.40	---	PASS
11B	Ant1	2412	30~1000	11.40	-54.85	≤-18.6	PASS
11B	Ant1	2412	1000~26500	11.40	-33.65	≤-18.6	PASS
11B	Ant1	2437	0~Reference	11.65	11.65	---	PASS
11B	Ant1	2437	30~1000	11.65	-55.67	≤-18.35	PASS
11B	Ant1	2437	1000~26500	11.65	-33.58	≤-18.35	PASS
11B	Ant1	2462	0~Reference	11.92	11.92	---	PASS
11B	Ant1	2462	30~1000	11.92	-54.3	≤-18.08	PASS
11B	Ant1	2462	1000~26500	11.92	-34.56	≤-18.08	PASS
11G	Ant1	2412	0~Reference	3.81	3.81	---	PASS
11G	Ant1	2412	30~1000	3.81	-54.91	≤-26.19	PASS
11G	Ant1	2412	1000~26500	3.81	-53.63	≤-26.19	PASS
11G	Ant1	2437	0~Reference	1.82	1.82	---	PASS
11G	Ant1	2437	30~1000	1.82	-54.66	≤-28.18	PASS
11G	Ant1	2437	1000~26500	1.82	-53.5	≤-28.18	PASS
11G	Ant1	2462	0~Reference	2.10	2.10	---	PASS
11G	Ant1	2462	30~1000	2.10	-55.08	≤-27.9	PASS
11G	Ant1	2462	1000~26500	2.10	-52.25	≤-27.9	PASS
11N20SISO	Ant1	2412	0~Reference	5.14	5.14	---	PASS
11N20SISO	Ant1	2412	30~1000	5.14	-54.6	≤-24.86	PASS
11N20SISO	Ant1	2412	1000~26500	5.14	-53.06	≤-24.86	PASS
11N20SISO	Ant1	2437	0~Reference	3.50	3.50	---	PASS
11N20SISO	Ant1	2437	30~1000	3.50	-55.31	≤-26.5	PASS
11N20SISO	Ant1	2437	1000~26500	3.50	-52.28	≤-26.5	PASS
11N20SISO	Ant1	2462	0~Reference	6.63	6.63	---	PASS
11N20SISO	Ant1	2462	30~1000	6.63	-55.29	≤-23.37	PASS
11N20SISO	Ant1	2462	1000~26500	6.63	-48.69	≤-23.37	PASS



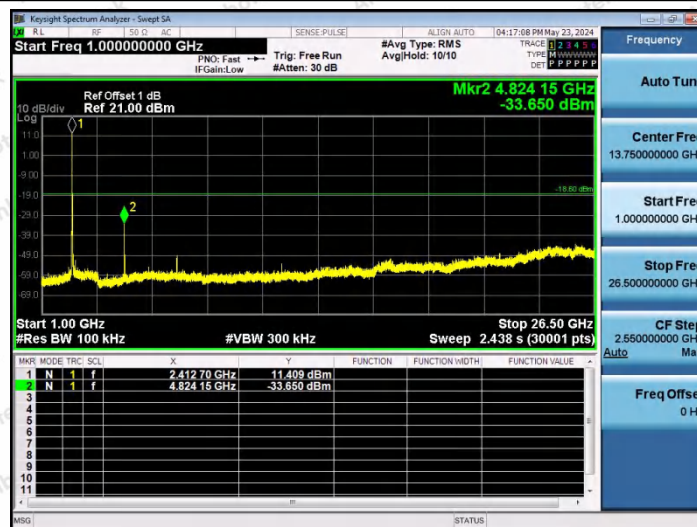
Test Graphs



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



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



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

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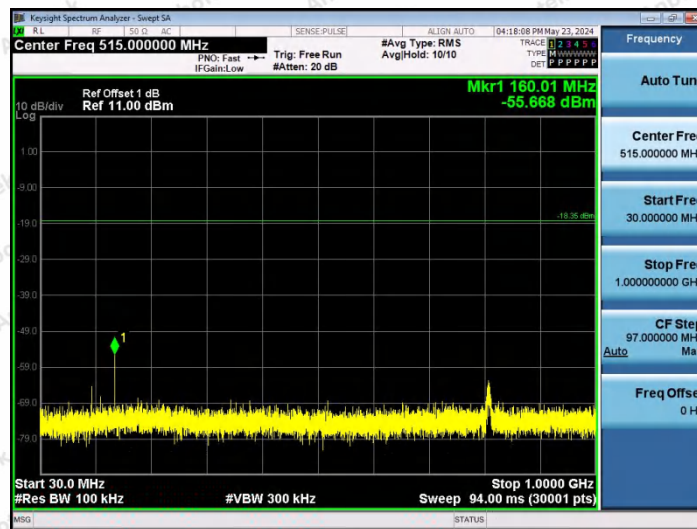


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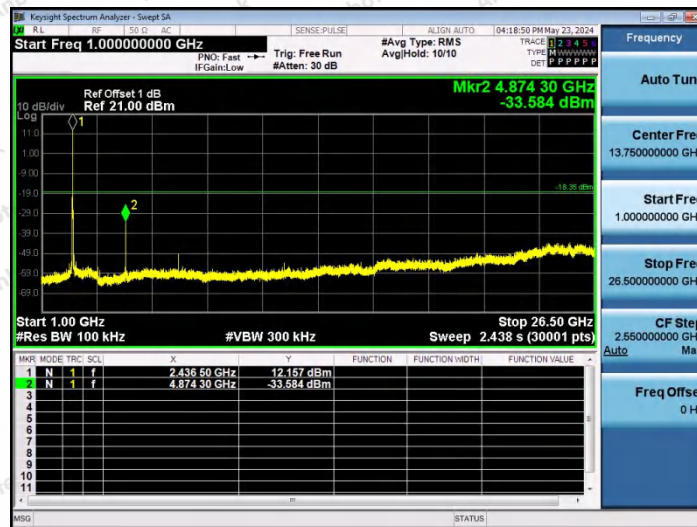




11B-Ant1-2437-0~Reference-PASS



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



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

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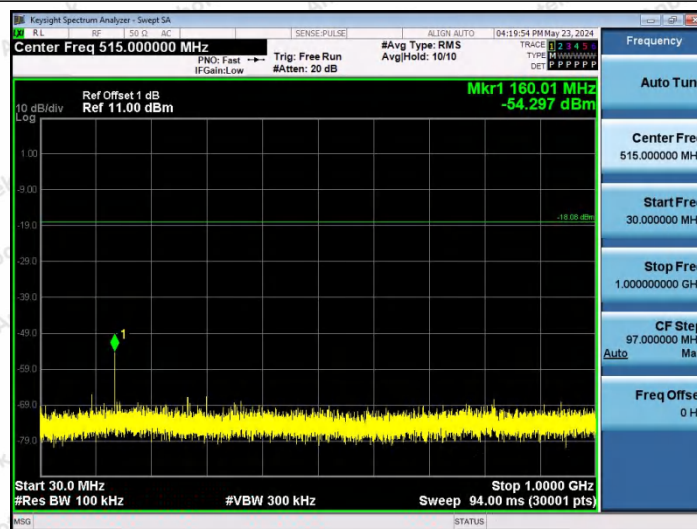


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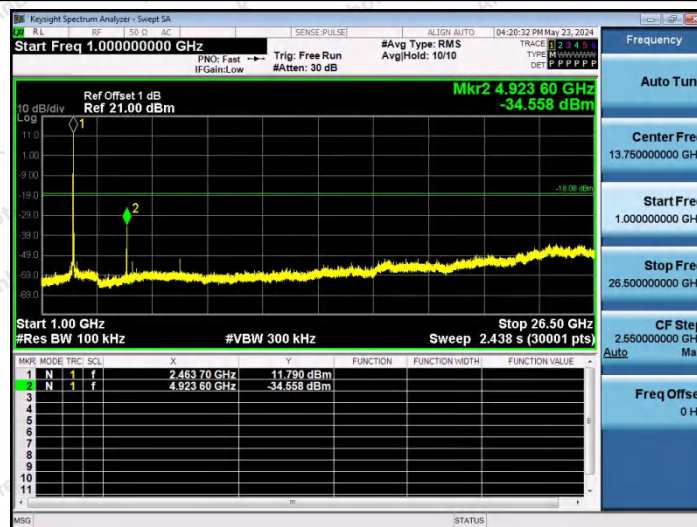




11B-Ant1-2462-0~Reference-PASS



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



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

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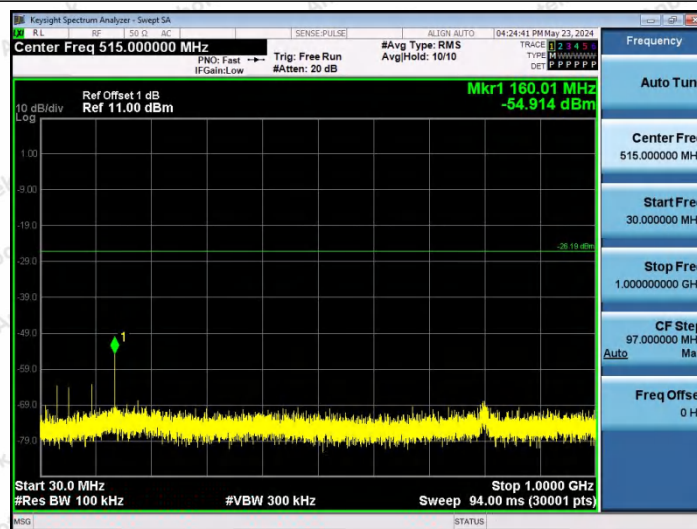


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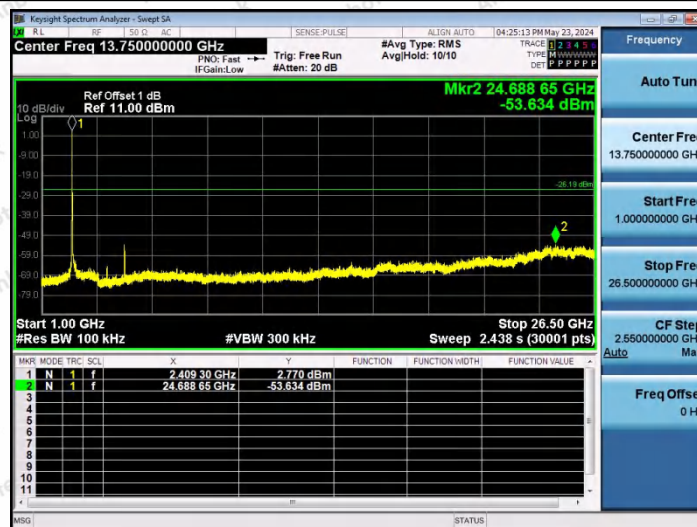




11G-Ant1-2412-0~Reference-PASS



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



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

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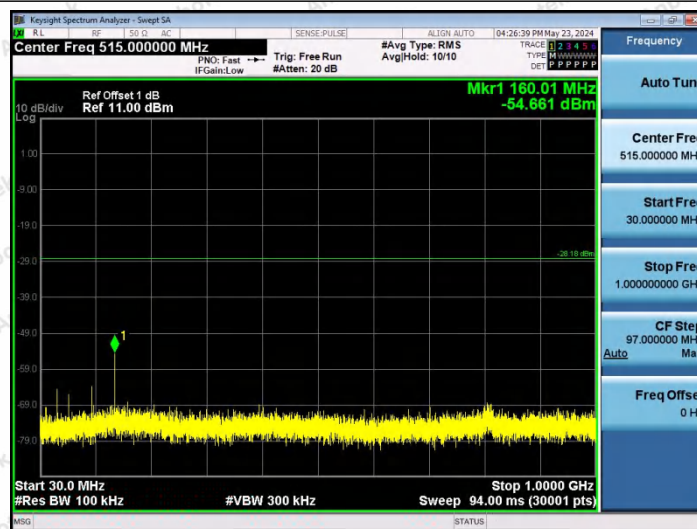


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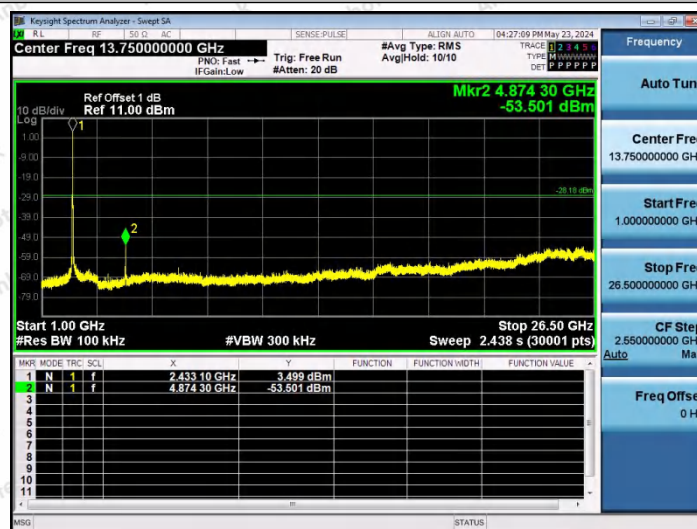




11G-Ant1-2437-0~Reference-PASS



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



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

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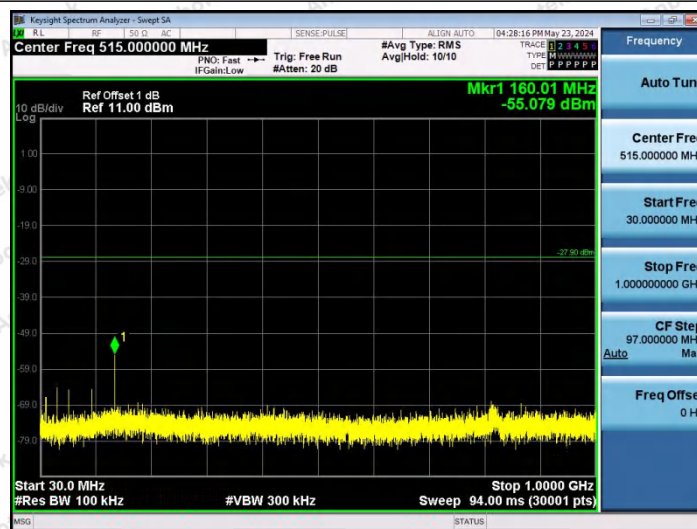


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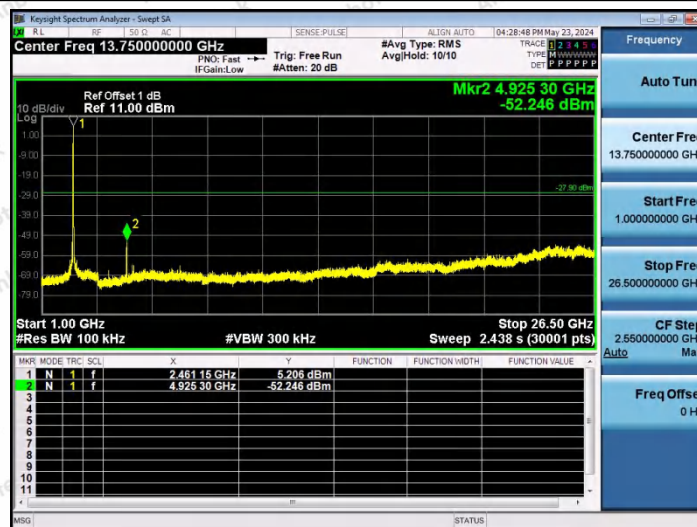




11G-Ant1-2462-0~Reference-PASS



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



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

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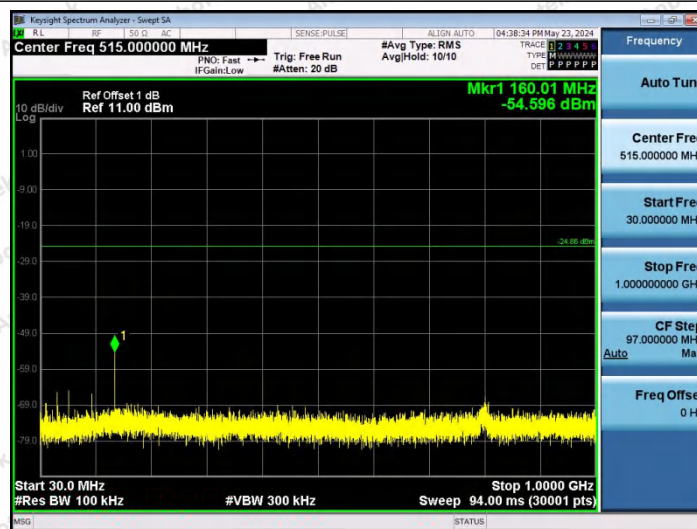


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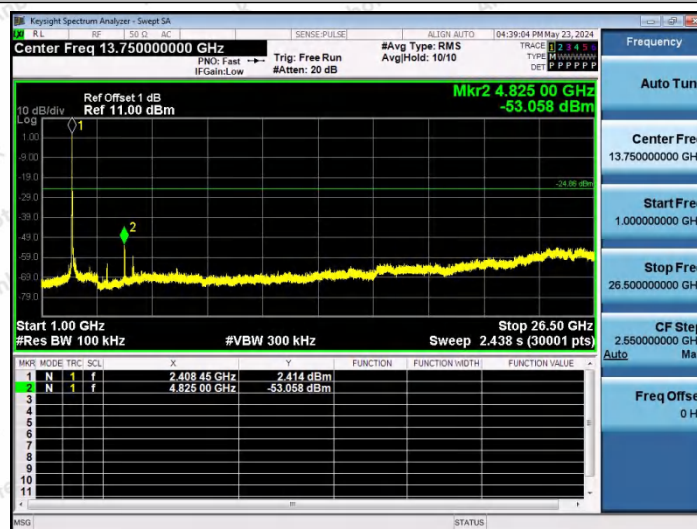




11N20SISO-Ant1-2412-0~Reference-PASS



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



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

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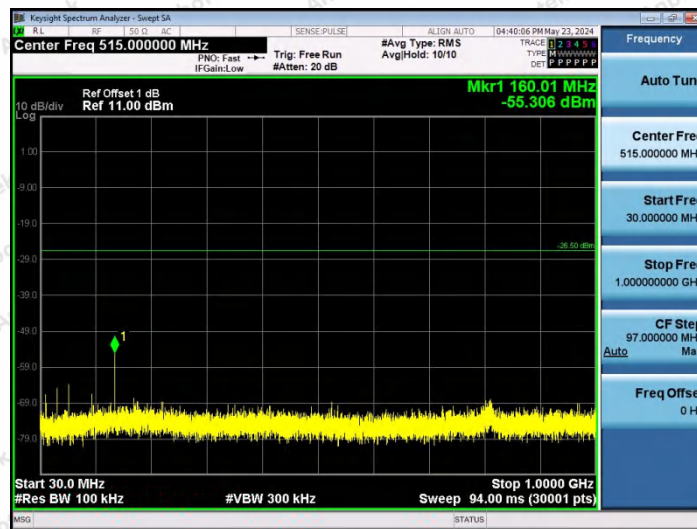


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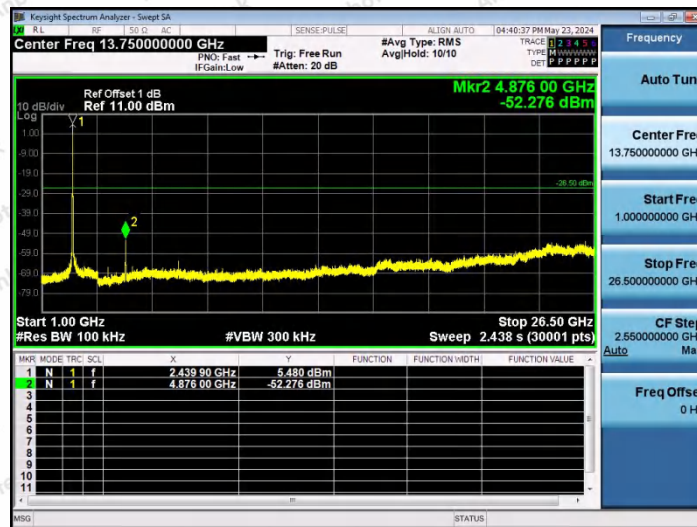




11N20SISO-Ant1-2437-0~Reference-PASS



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



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

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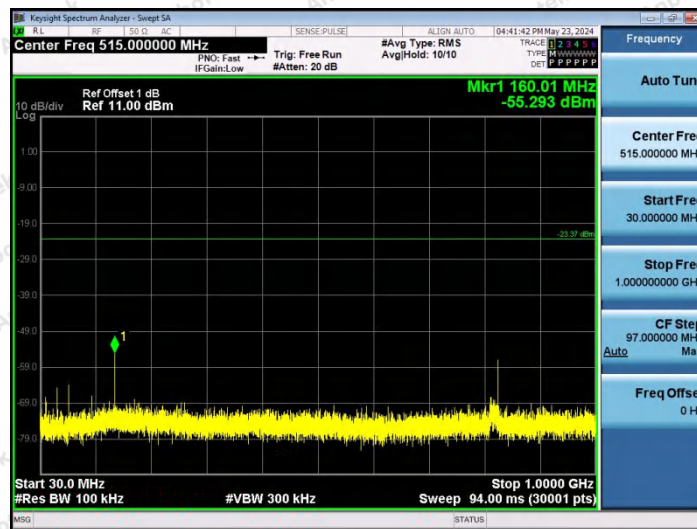


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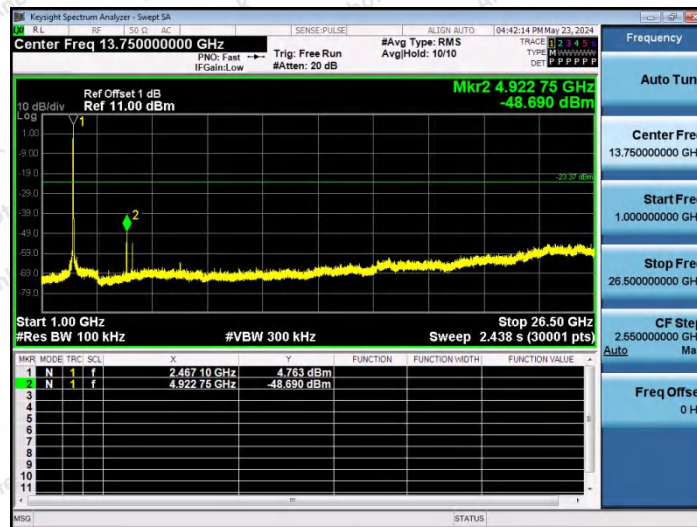




11N20SISO-Ant1-2462-0~Reference-PASS



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



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

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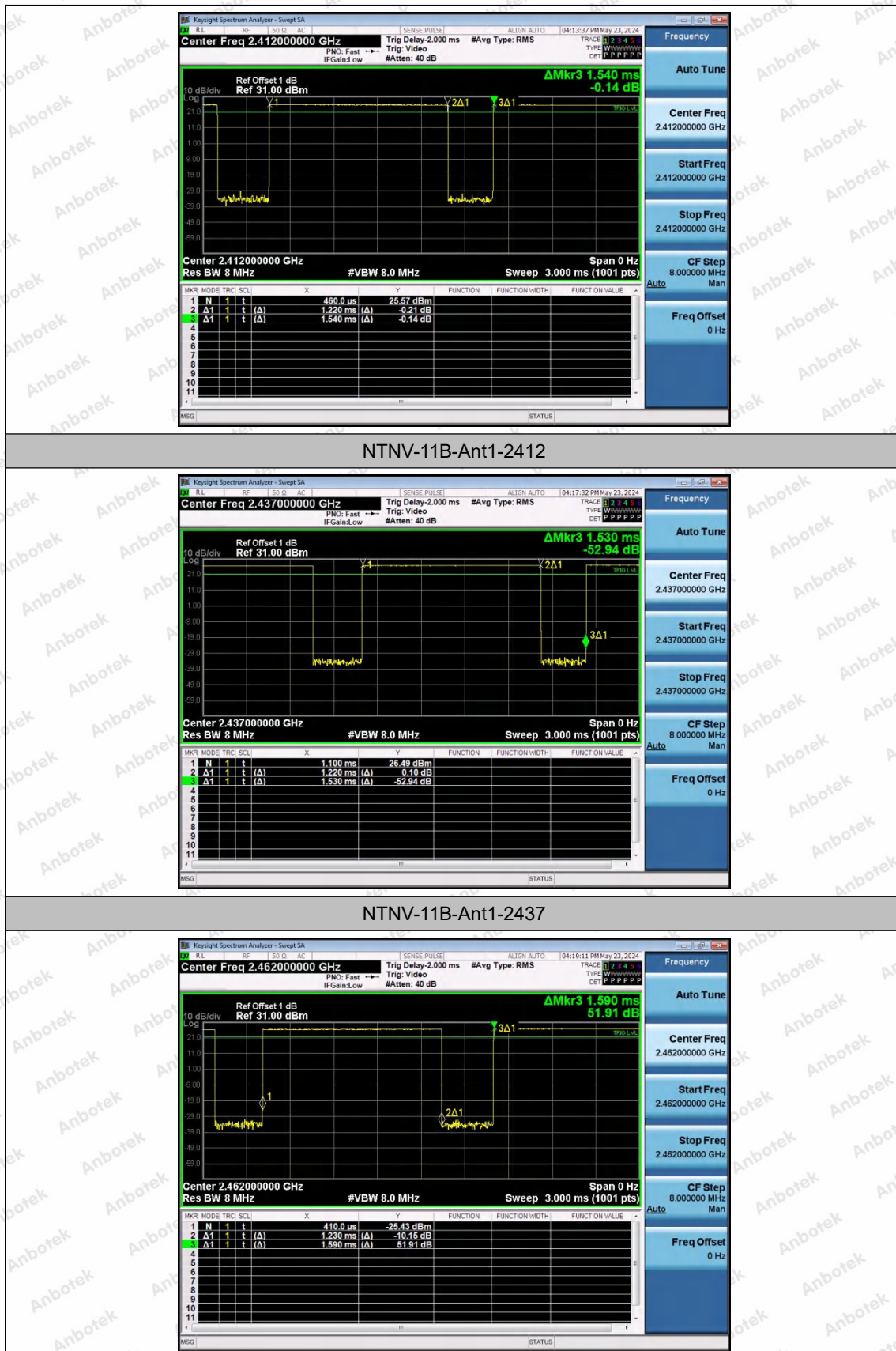
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	1.22	1.54	79.22	1.01
11B	Ant1	2437	1.22	1.53	79.74	0.98
11B	Ant1	2462	1.23	1.59	77.36	1.11
11G	Ant1	2412	0.55	0.73	75.34	1.23
11G	Ant1	2437	0.54	0.71	76.06	1.19
11G	Ant1	2462	0.54	0.69	78.26	1.06
11N20SISO	Ant1	2412	0.55	0.73	75.34	1.23
11N20SISO	Ant1	2437	0.55	0.74	74.32	1.29
11N20SISO	Ant1	2462	0.55	0.70	78.57	1.05



Test Graphs



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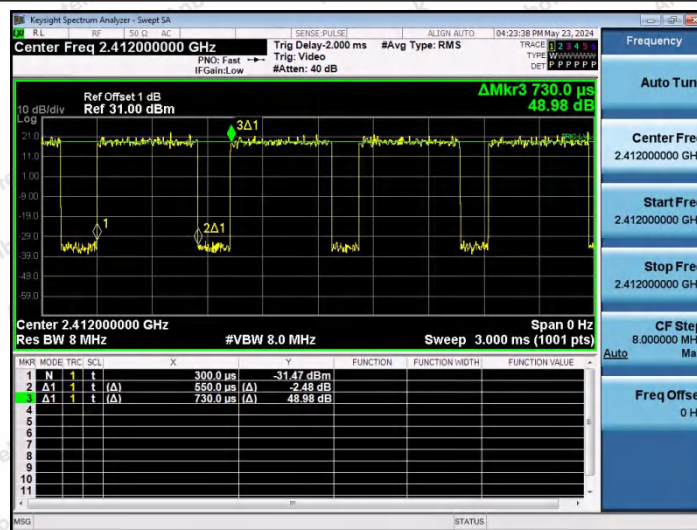
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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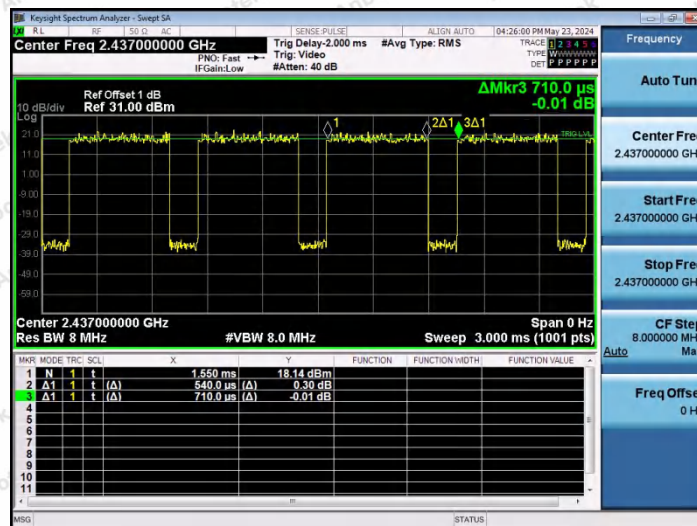
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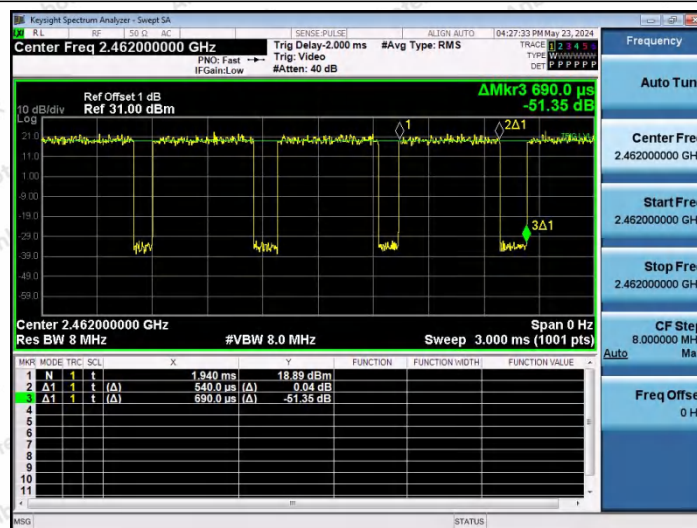
NTNV-11B-Ant1-2462



NTNV-11G-Ant1-2412



NTNV-11G-Ant1-2437



NTNV-11G-Ant1-2462

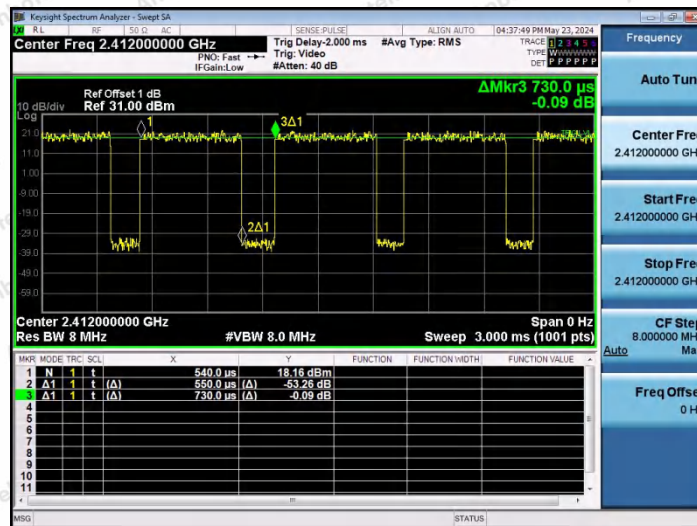
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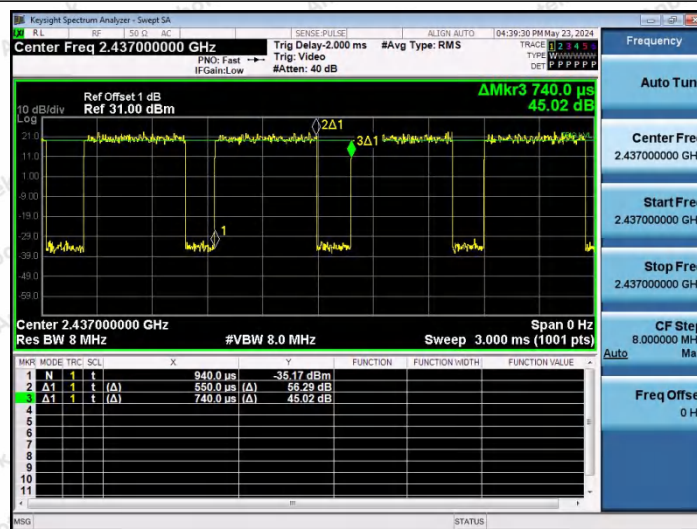


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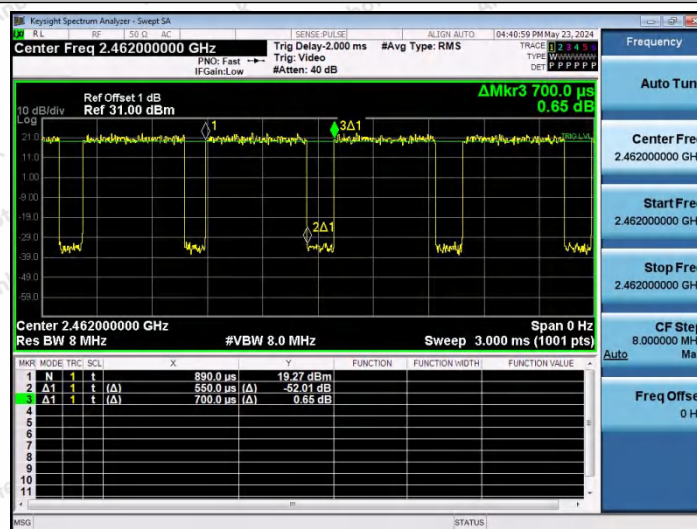




NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437



NTNV-11N20SISO-Ant1-2462

---End---

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