



Appendix for WIFI 2.4GHz

Product Name: Transmitter Duplex

Model No: DS-24 II

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Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.560	2407.000	2416.560	0.5	PASS
11B	Ant1	2437	8.680	2432.880	2441.560	0.5	PASS
11B	Ant1	2462	9.560	2457.000	2466.560	0.5	PASS
11G	Ant1	2412	16.480	2403.760	2420.240	0.5	PASS
11G	Ant1	2437	16.480	2428.760	2445.240	0.5	PASS
11G	Ant1	2462	16.440	2453.800	2470.240	0.5	PASS
11N20SISO	Ant1	2412	17.080	2403.480	2420.560	0.5	PASS
11N20SISO	Ant1	2437	17.400	2428.400	2445.800	0.5	PASS
11N20SISO	Ant1	2462	17.240	2453.400	2470.640	0.5	PASS
11N40SISO	Ant1	2422	33.520	2405.120	2438.640	0.5	PASS
11N40SISO	Ant1	2437	33.760	2420.120	2453.880	0.5	PASS
11N40SISO	Ant1	2452	33.760	2435.120	2468.880	0.5	PASS

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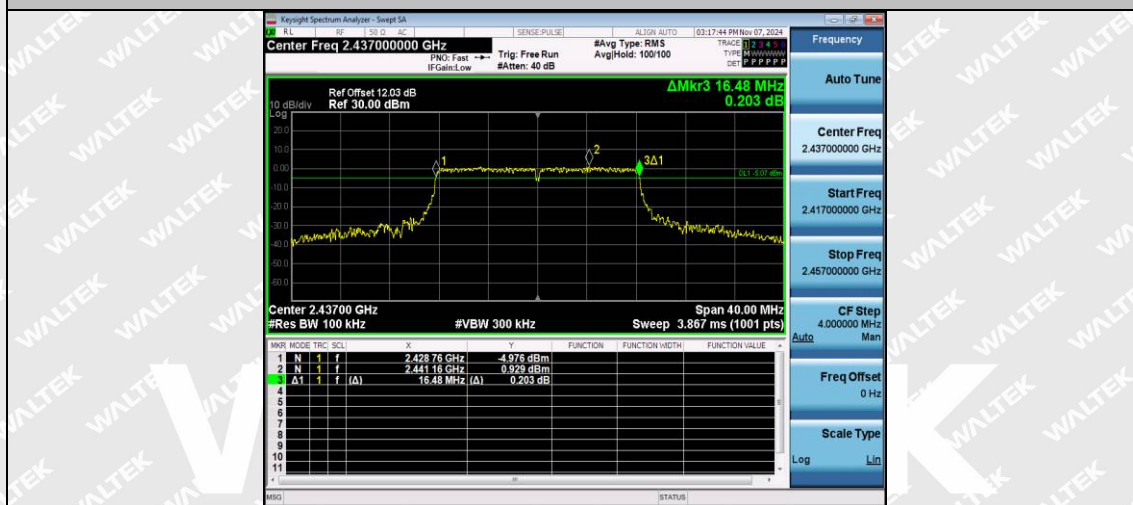


Test Graphs

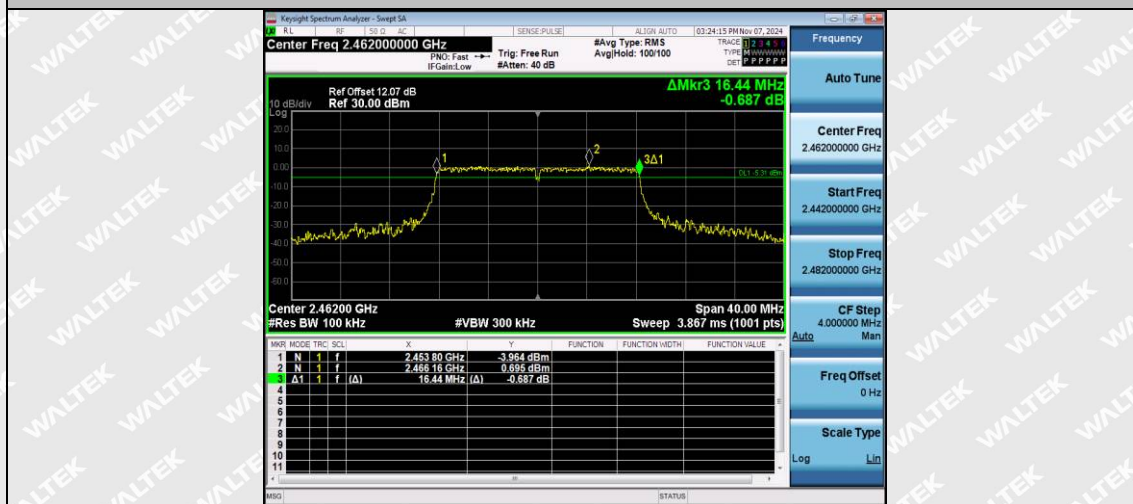




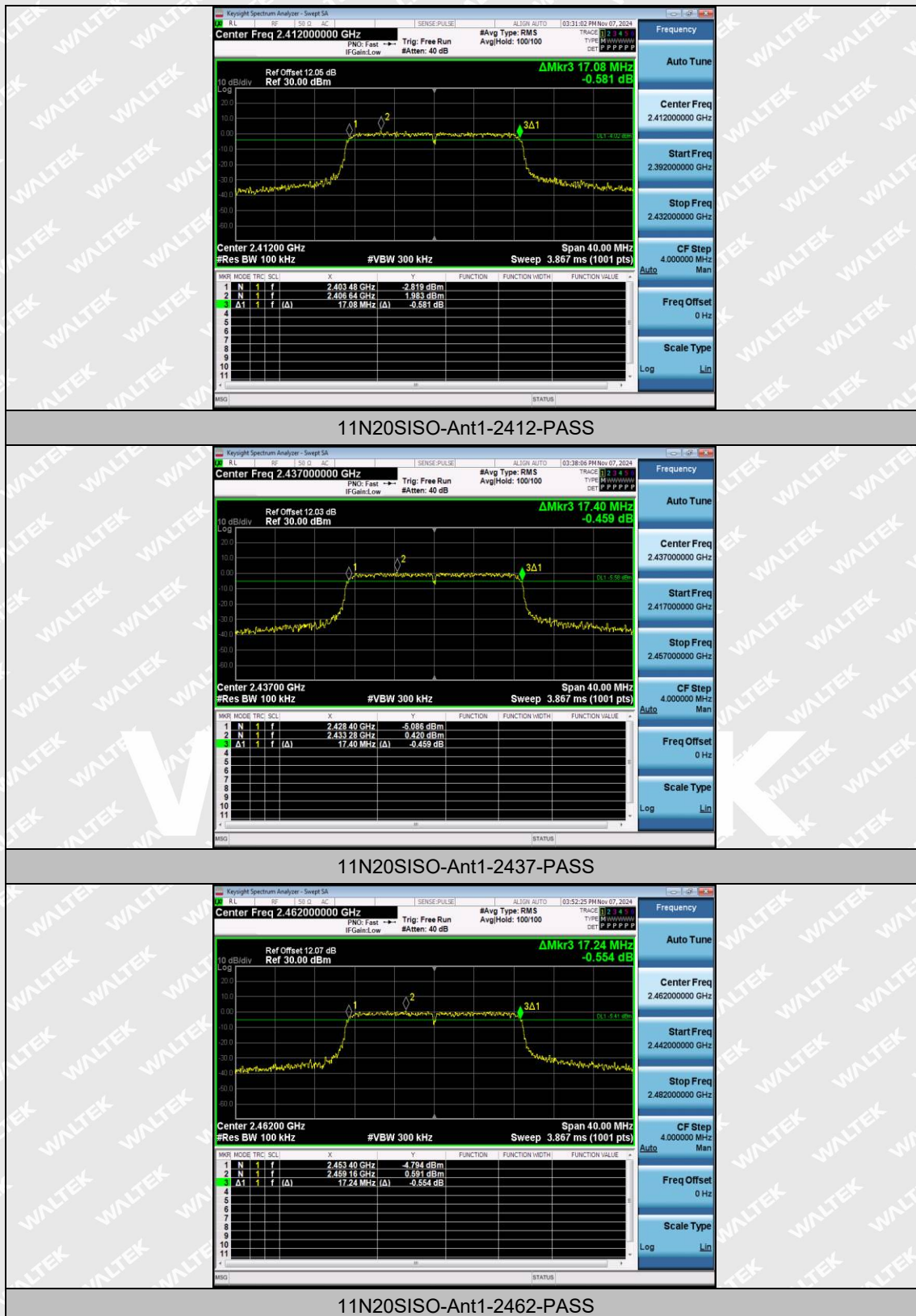
11G-Ant1-2412-PASS

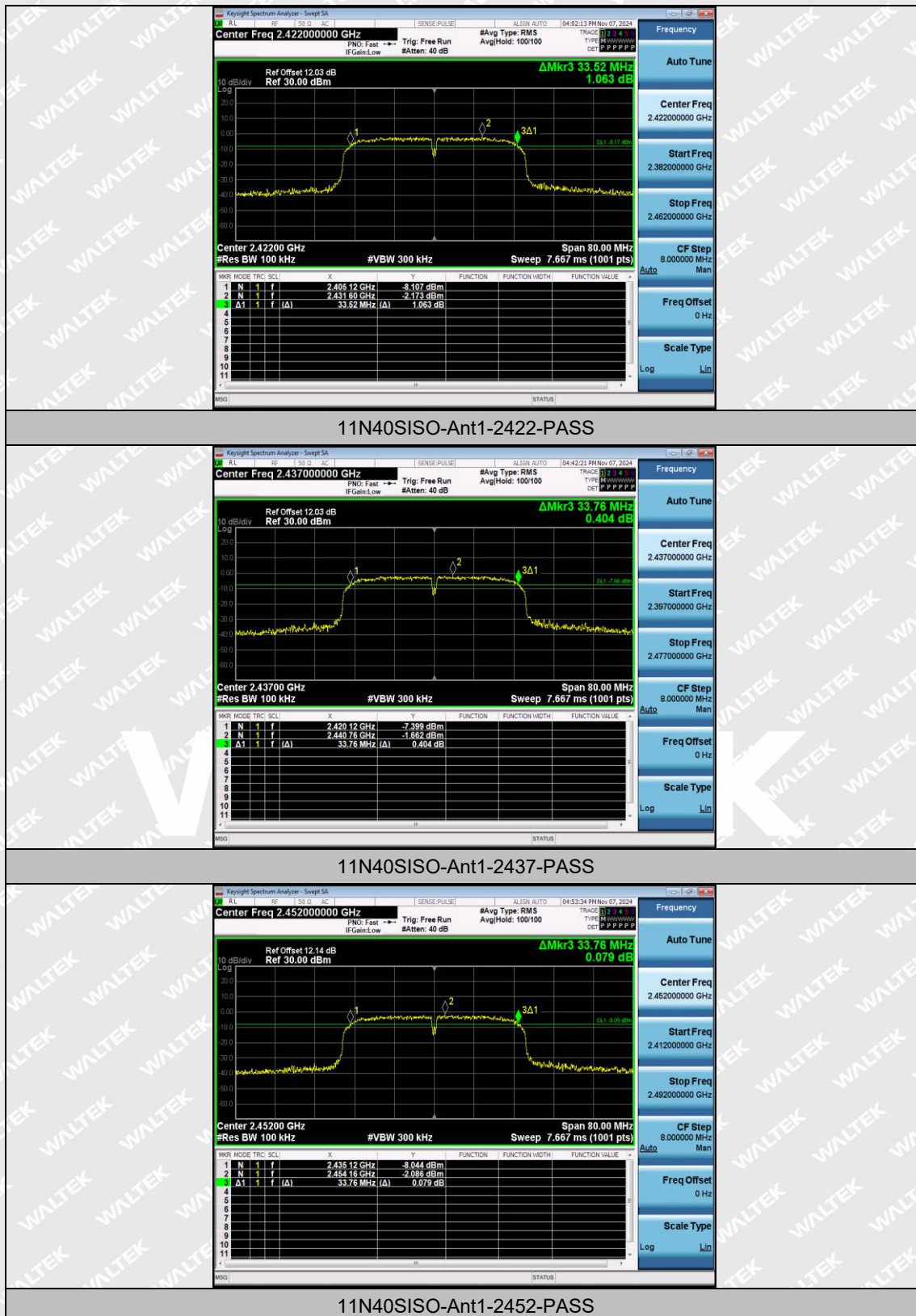


11G-Ant1-2437-PASS



11G-Ant1-2462-PASS







Appendix B: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency [MHz]	Peak Power [dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	18.37	≤30.00	PASS
11B	Ant1	2437	17.78	≤30.00	PASS
11B	Ant1	2462	17.70	≤30.00	PASS
11G	Ant1	2412	15.76	≤30.00	PASS
11G	Ant1	2437	15.80	≤30.00	PASS
11G	Ant1	2462	15.63	≤30.00	PASS
11N20SISO	Ant1	2412	15.67	≤30.00	PASS
11N20SISO	Ant1	2437	15.59	≤30.00	PASS
11N20SISO	Ant1	2462	15.42	≤30.00	PASS
11N40SISO	Ant1	2422	15.17	≤30.00	PASS
11N40SISO	Ant1	2437	15.63	≤30.00	PASS
11N40SISO	Ant1	2452	15.24	≤30.00	PASS

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Appendix C: Maximum power spectral density

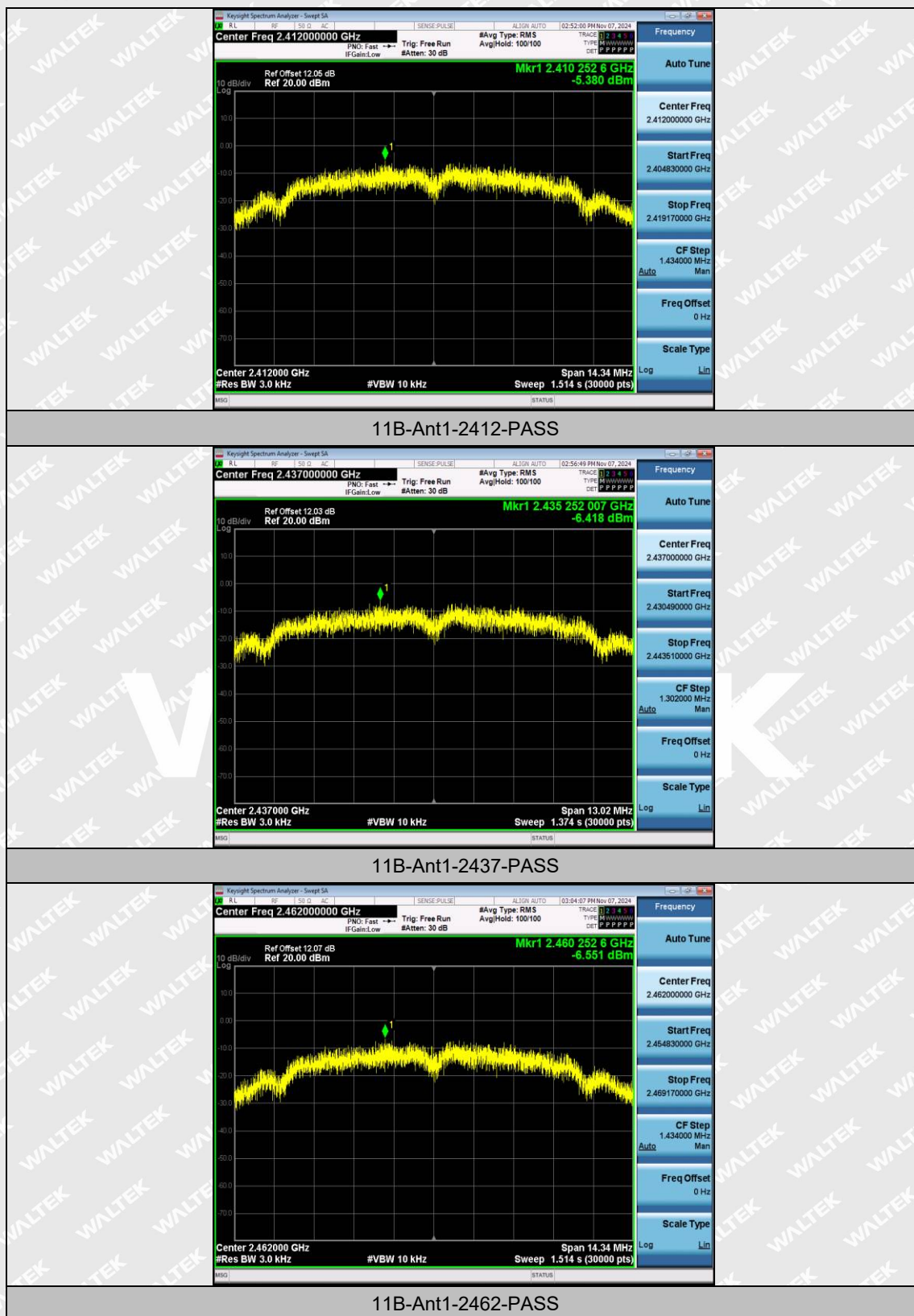
Test Result

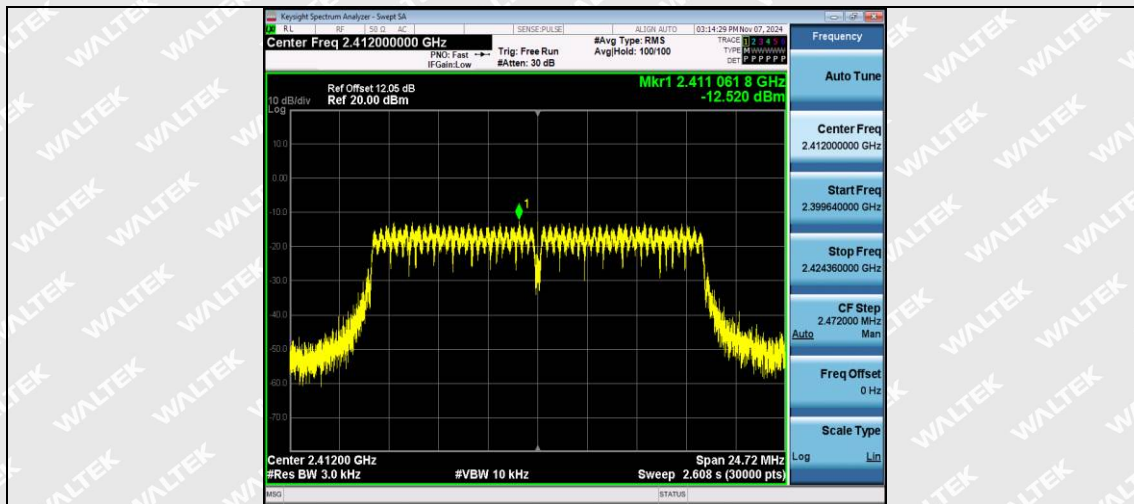
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-5.38	≤8.00	PASS
11B	Ant1	2437	-6.42	≤8.00	PASS
11B	Ant1	2462	-6.55	≤8.00	PASS
11G	Ant1	2412	-12.52	≤8.00	PASS
11G	Ant1	2437	-12.67	≤8.00	PASS
11G	Ant1	2462	-12.71	≤8.00	PASS
11N20SISO	Ant1	2412	-12.07	≤8.00	PASS
11N20SISO	Ant1	2437	-12.43	≤8.00	PASS
11N20SISO	Ant1	2462	-12.45	≤8.00	PASS
11N40SISO	Ant1	2422	-13.45	≤8.00	PASS
11N40SISO	Ant1	2437	-13.43	≤8.00	PASS
11N40SISO	Ant1	2452	-12.93	≤8.00	PASS

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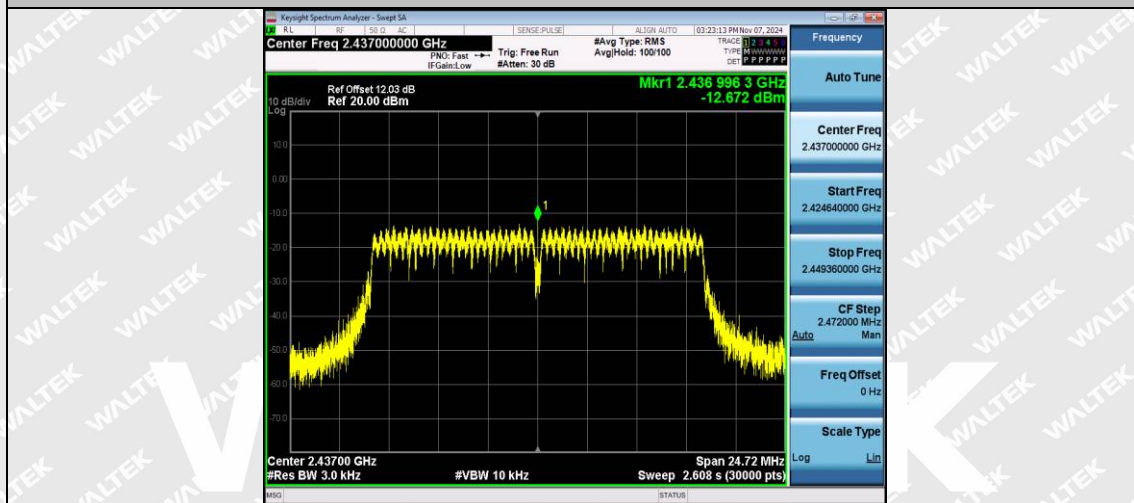


Test Graphs

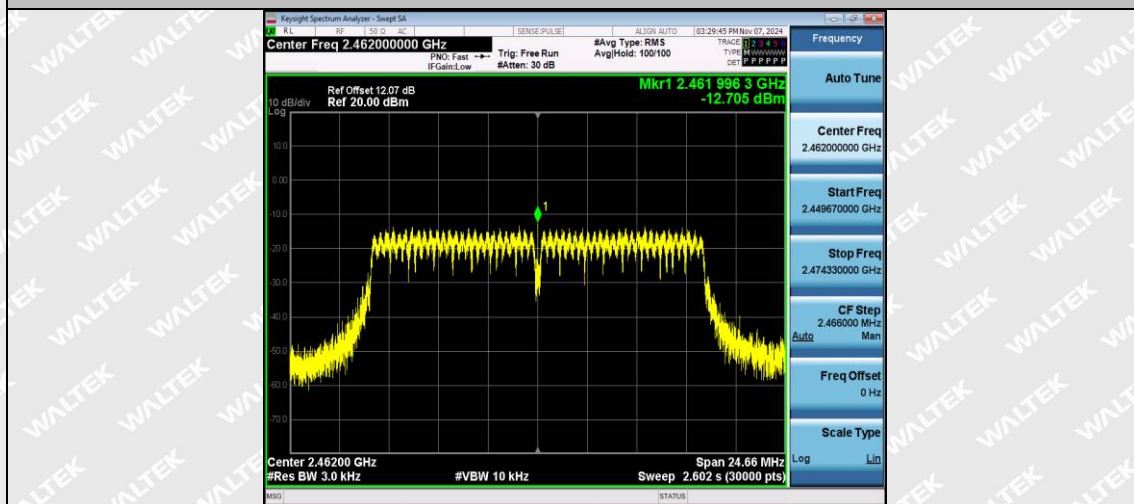




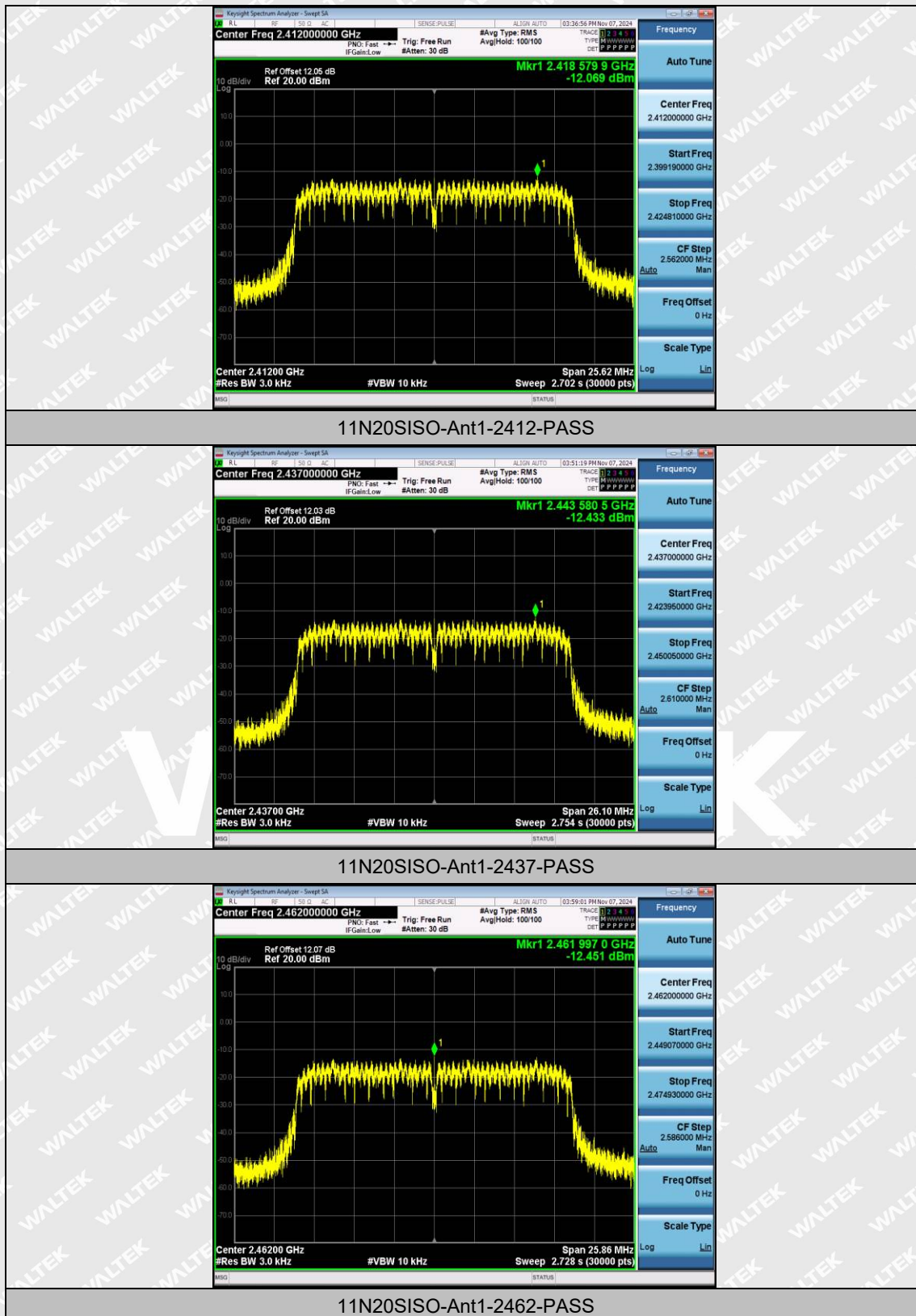
11G-Ant1-2412-PASS

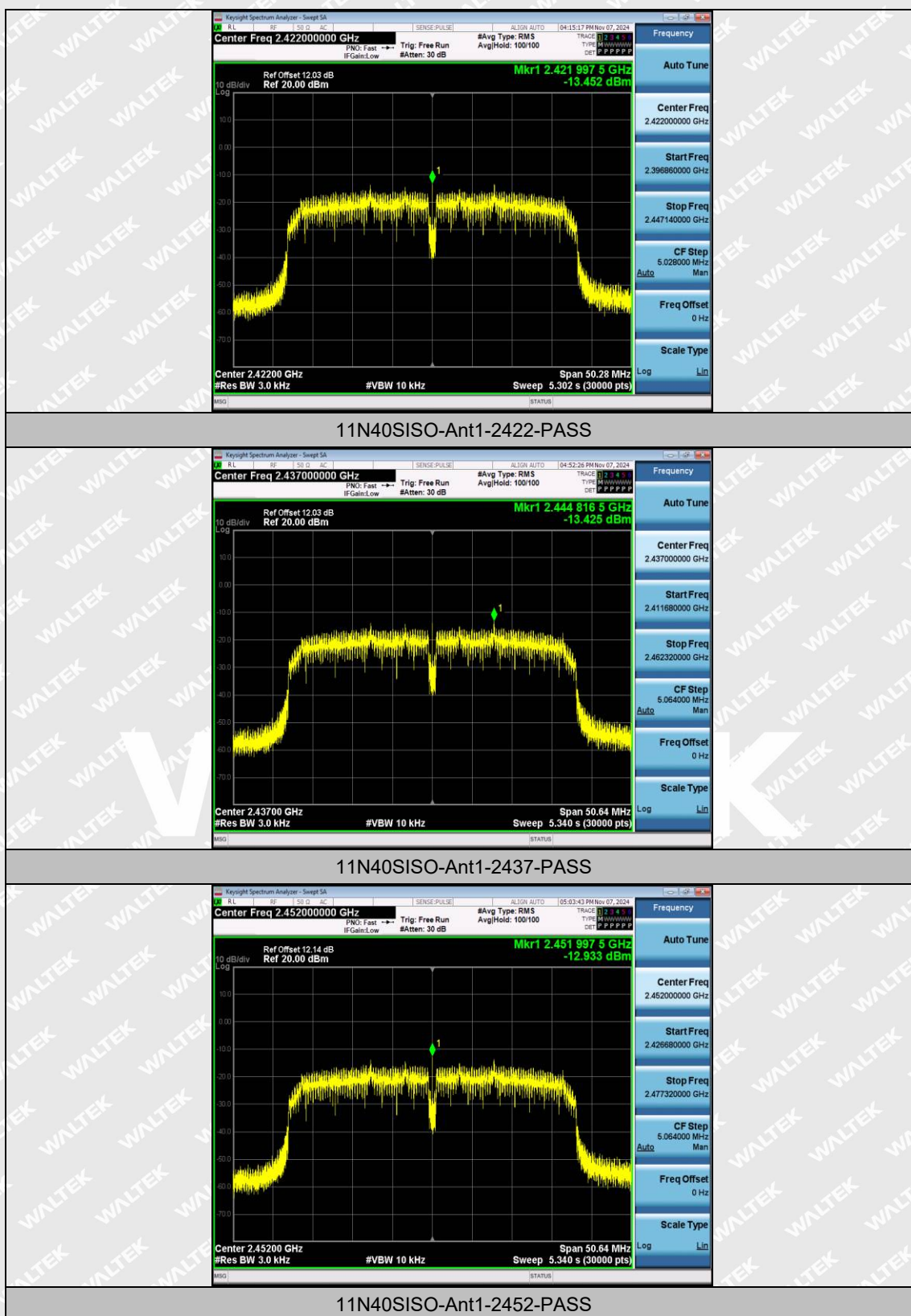


11G-Ant1-2437-PASS



11G-Ant1-2462-PASS







Appendix D: Reference level measurement

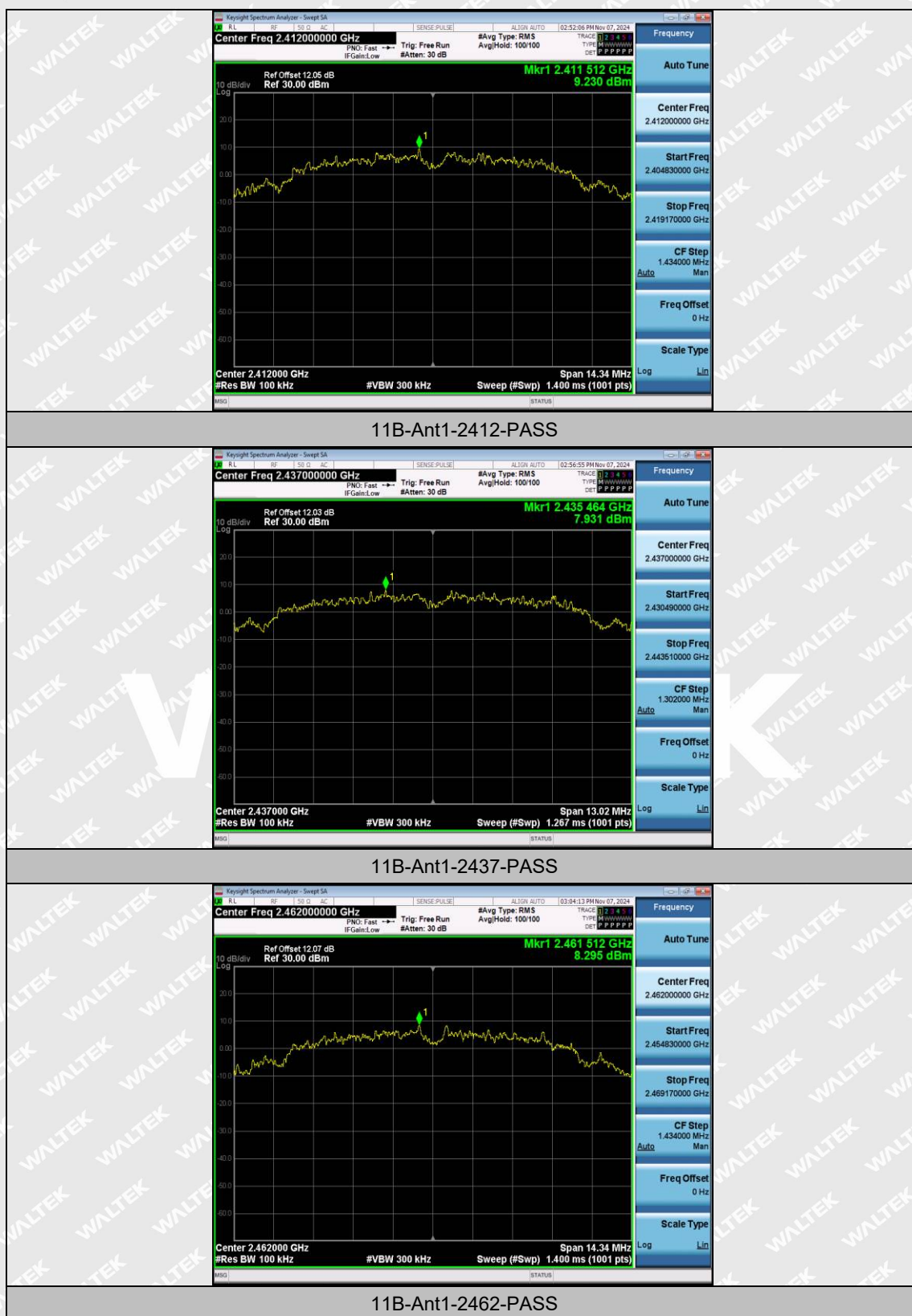
Test Result

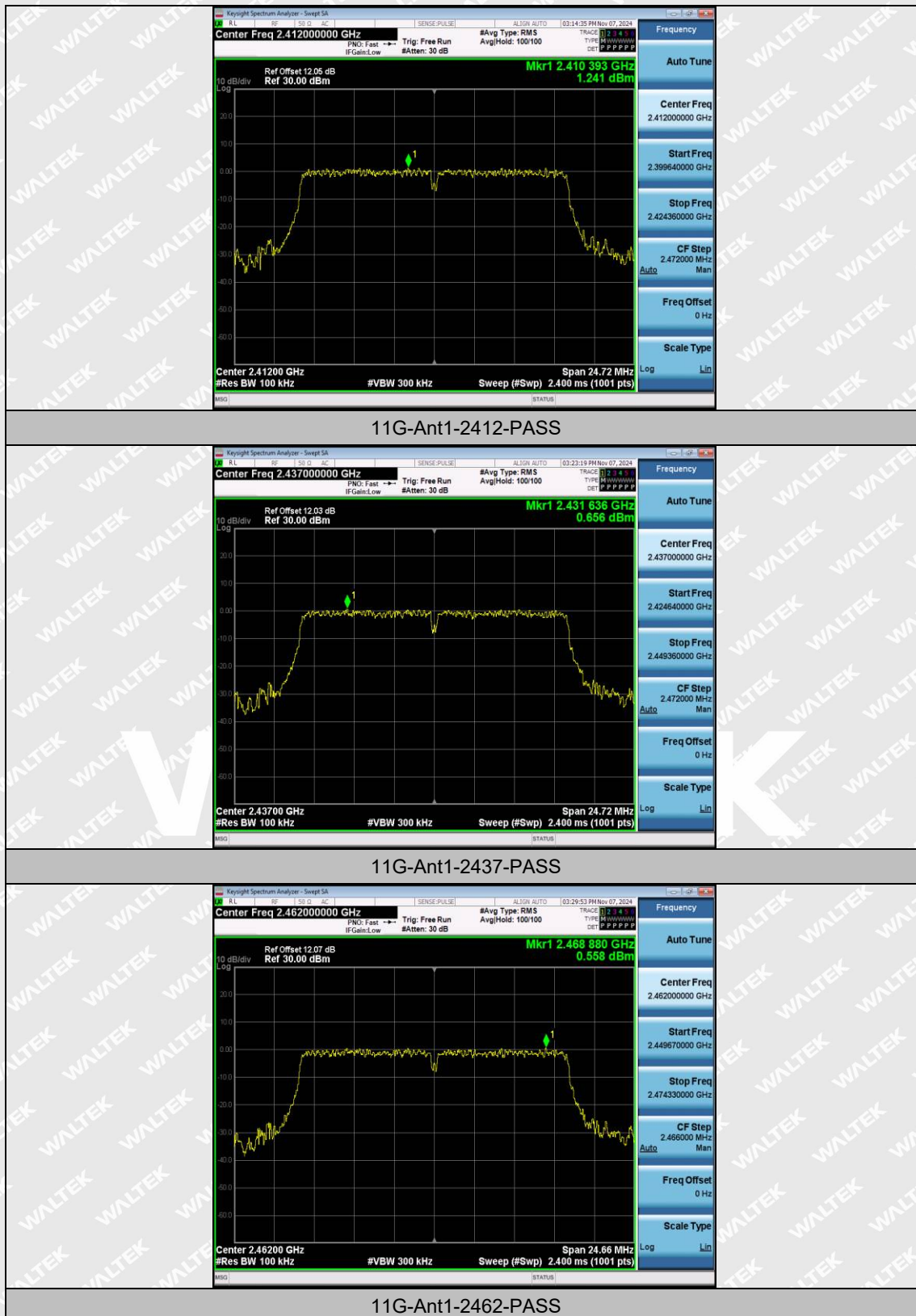
TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
11B	Ant1	2412	2411.51	9.23
11B	Ant1	2437	2435.46	7.93
11B	Ant1	2462	2461.51	8.30
11G	Ant1	2412	2410.39	1.24
11G	Ant1	2437	2431.64	0.66
11G	Ant1	2462	2468.88	0.56
11N20SISO	Ant1	2412	2406.65	1.79
11N20SISO	Ant1	2437	2434.13	0.65
11N20SISO	Ant1	2462	2457.27	0.63
11N40SISO	Ant1	2422	2419.84	-2.31
11N40SISO	Ant1	2437	2434.87	-2.44
11N40SISO	Ant1	2452	2461.62	-2.23

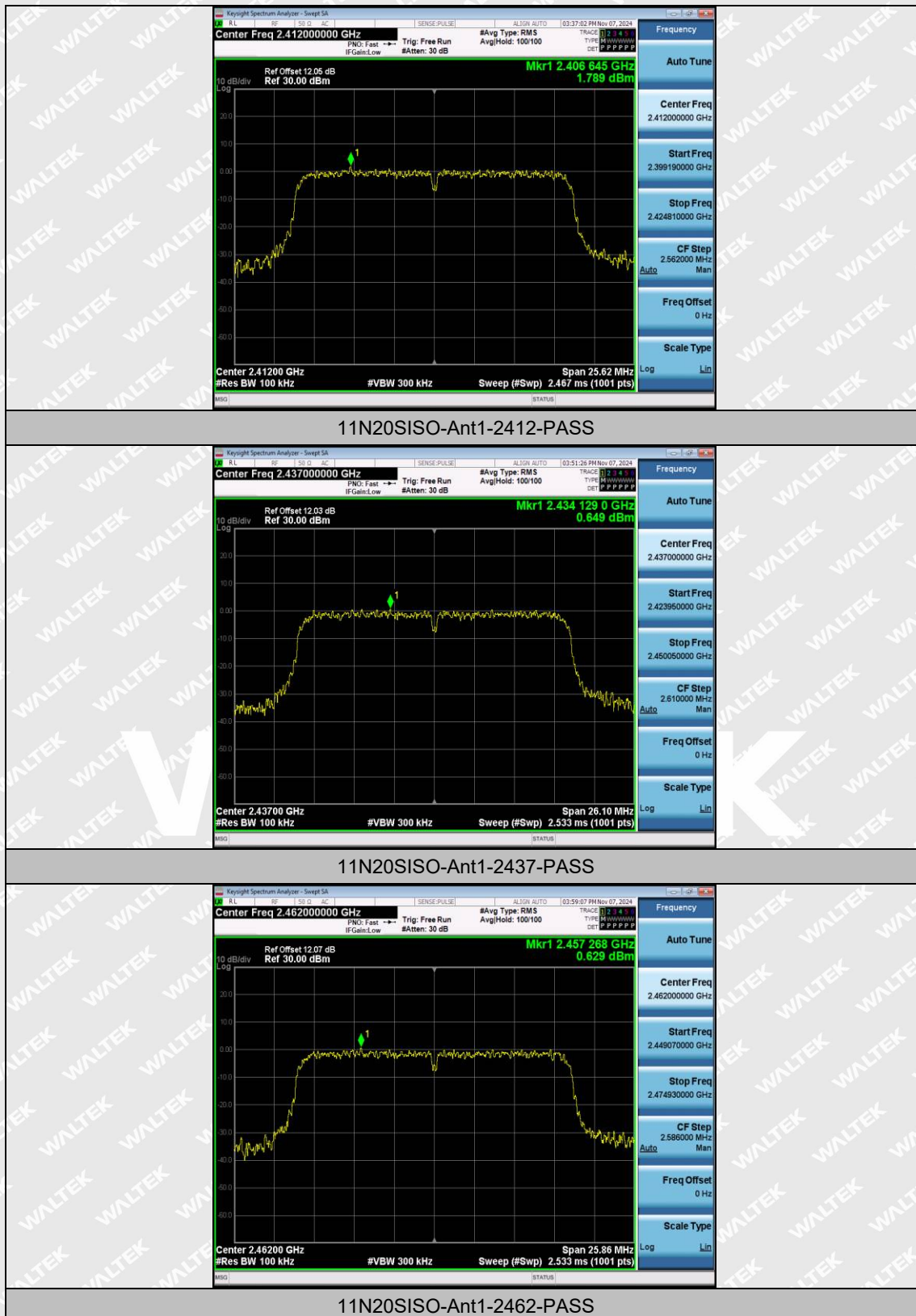
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Test Graphs











Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	9.23	-39.5	≤ -10.77	PASS
11B	Ant1	High	2462	8.30	-45.71	≤ -11.7	PASS
11G	Ant1	Low	2412	1.24	-28.17	≤ -18.76	PASS
11G	Ant1	High	2462	0.56	-41.86	≤ -19.44	PASS
11N20SISO	Ant1	Low	2412	1.79	-32	≤ -18.21	PASS
11N20SISO	Ant1	High	2462	0.63	-41.03	≤ -19.37	PASS
11N40SISO	Ant1	Low	2422	-2.31	-36.7	≤ -22.31	PASS
11N40SISO	Ant1	High	2452	-2.23	-38.55	≤ -22.23	PASS

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Test Graphs

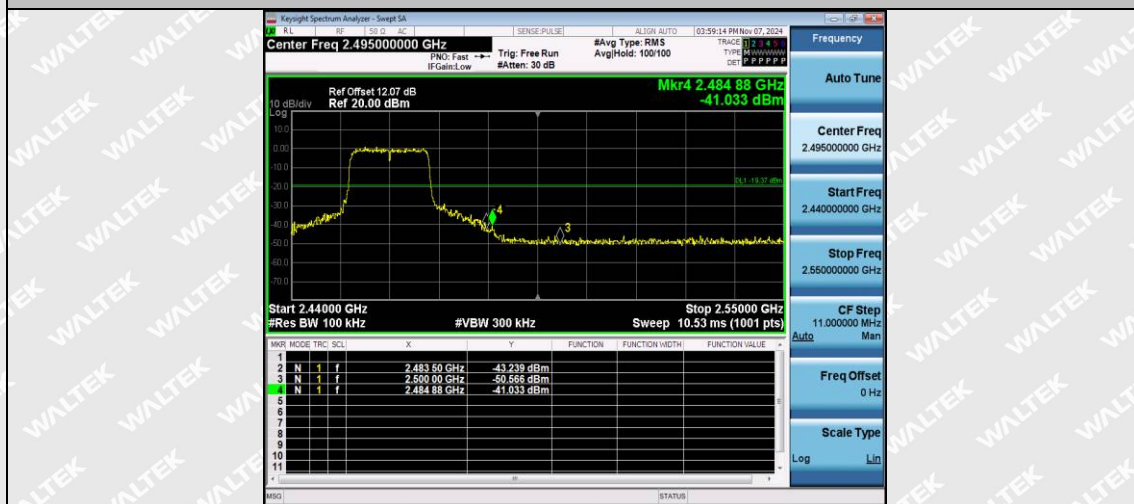




11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS





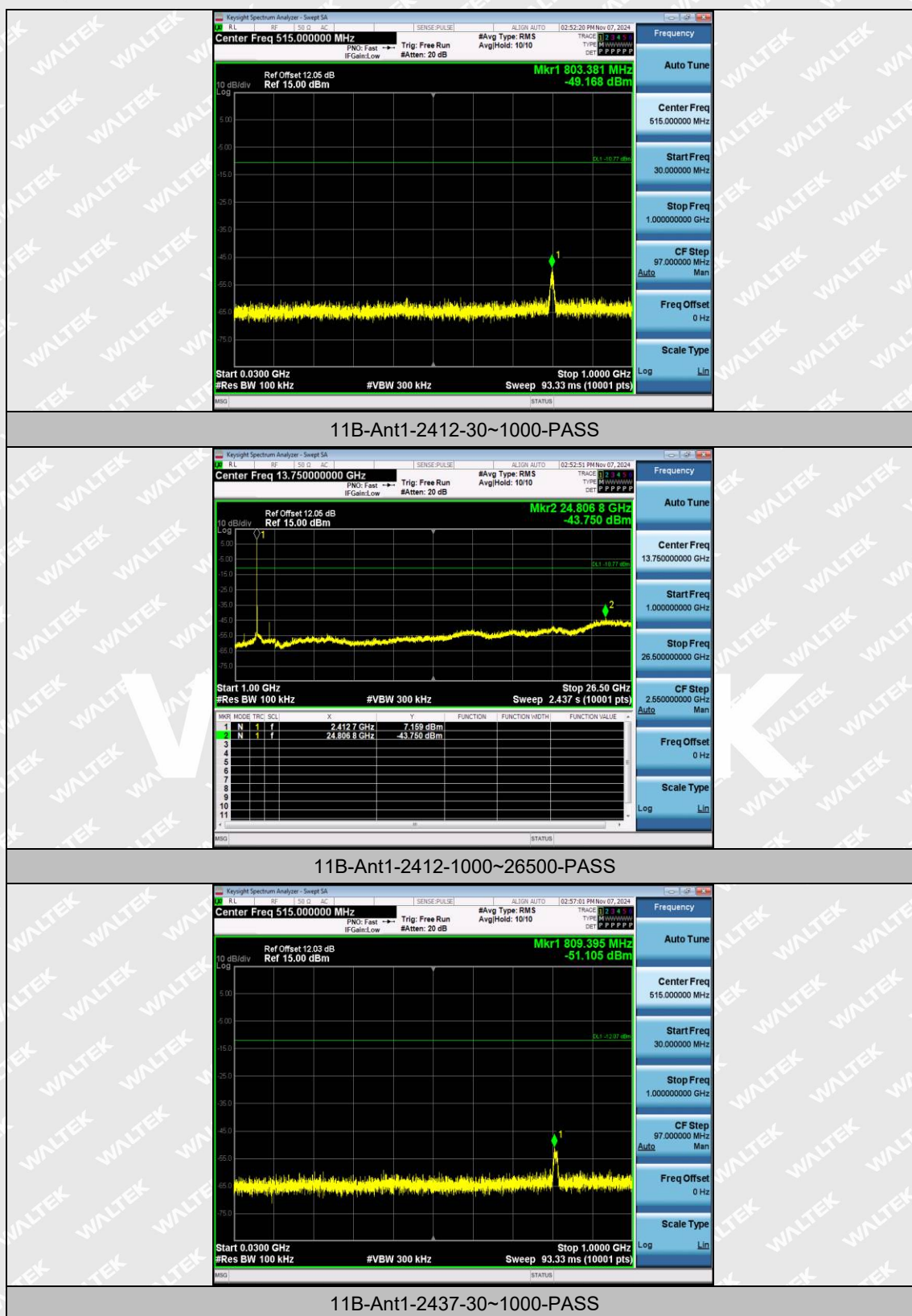
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	9.23	-49.17	≤-10.77	PASS
11B	Ant1	2412	1000~26500	9.23	-43.75	≤-10.77	PASS
11B	Ant1	2437	30~1000	7.93	-51.11	≤-12.07	PASS
11B	Ant1	2437	1000~26500	7.93	-44.03	≤-12.07	PASS
11B	Ant1	2462	30~1000	8.30	-49.7	≤-11.7	PASS
11B	Ant1	2462	1000~26500	8.30	-44.68	≤-11.7	PASS
11G	Ant1	2412	30~1000	1.24	-53.62	≤-18.76	PASS
11G	Ant1	2412	1000~26500	1.24	-44.34	≤-18.76	PASS
11G	Ant1	2437	30~1000	0.66	-53.4	≤-19.34	PASS
11G	Ant1	2437	1000~26500	0.66	-43.41	≤-19.34	PASS
11G	Ant1	2462	30~1000	0.56	-53.47	≤-19.44	PASS
11G	Ant1	2462	1000~26500	0.56	-44.39	≤-19.44	PASS
11N20SISO	Ant1	2412	30~1000	1.79	-53.16	≤-18.21	PASS
11N20SISO	Ant1	2412	1000~26500	1.79	-44.53	≤-18.21	PASS
11N20SISO	Ant1	2437	30~1000	0.65	-54.15	≤-19.35	PASS
11N20SISO	Ant1	2437	1000~26500	0.65	-43.87	≤-19.35	PASS
11N20SISO	Ant1	2462	30~1000	0.63	-53.93	≤-19.37	PASS
11N20SISO	Ant1	2462	1000~26500	0.63	-43.94	≤-19.37	PASS
11N40SISO	Ant1	2422	30~1000	-2.31	-52.71	≤-22.31	PASS
11N40SISO	Ant1	2422	1000~26500	-2.31	-44.19	≤-22.31	PASS
11N40SISO	Ant1	2437	30~1000	-2.44	-52.95	≤-22.44	PASS
11N40SISO	Ant1	2437	1000~26500	-2.44	-44	≤-22.44	PASS
11N40SISO	Ant1	2452	30~1000	-2.23	-54.21	≤-22.23	PASS
11N40SISO	Ant1	2452	1000~26500	-2.23	-43.21	≤-22.23	PASS



Test Graphs





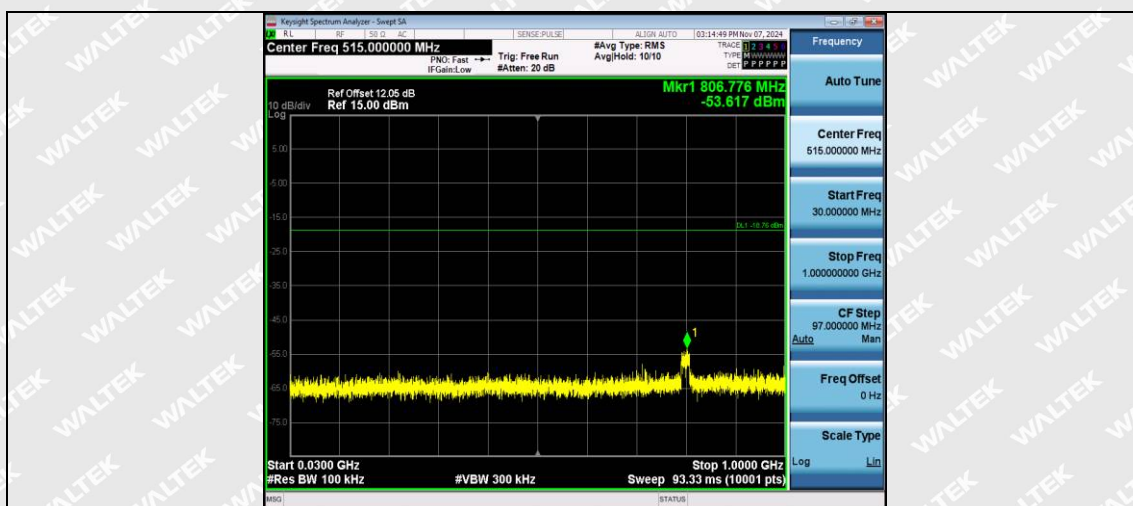
11B-Ant1-2437-1000~26500-PASS



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



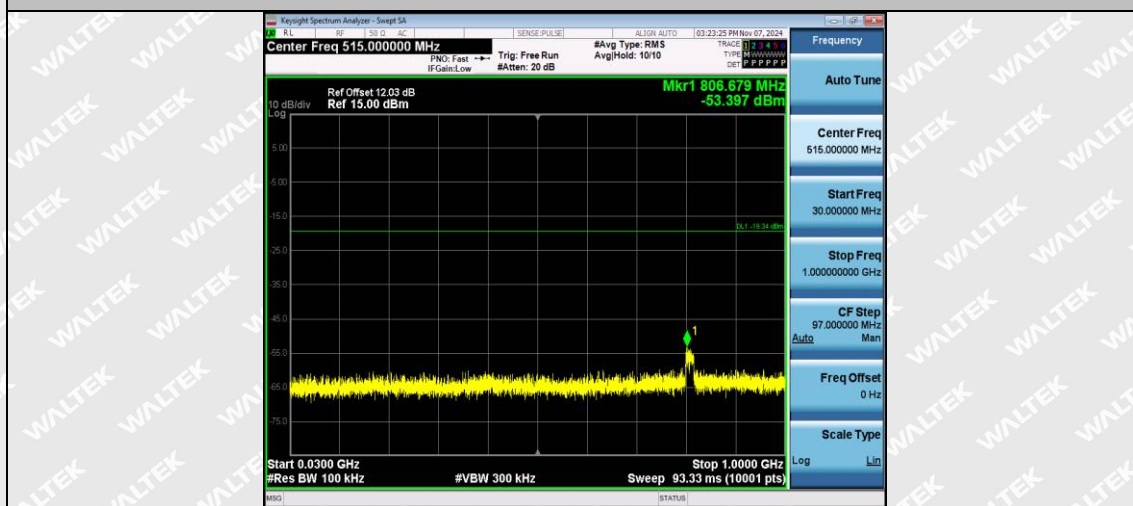
11B-Ant1-2462-1000~26500-PASS



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



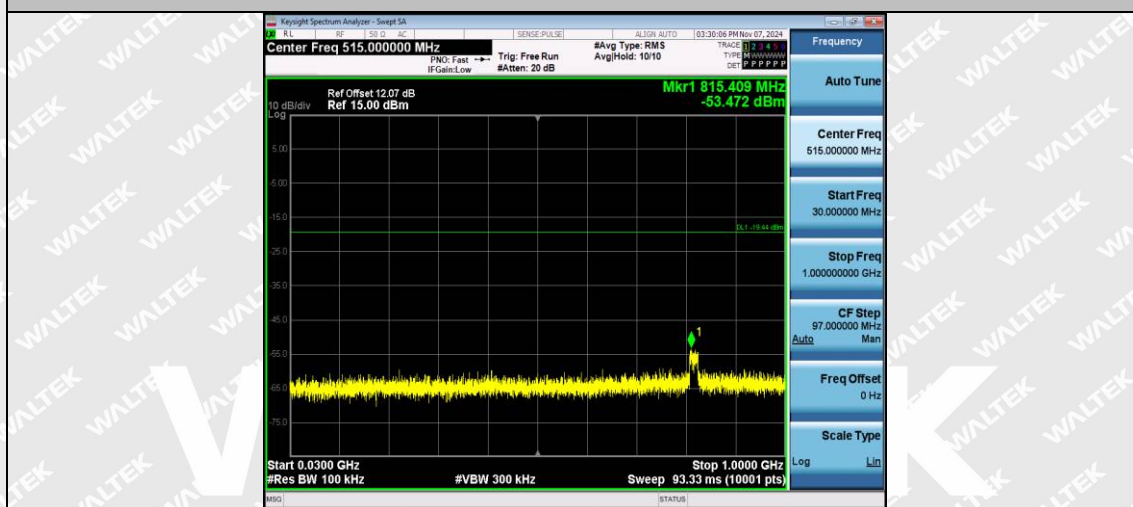
11G-Ant1-2412-1000~26500-PASS



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



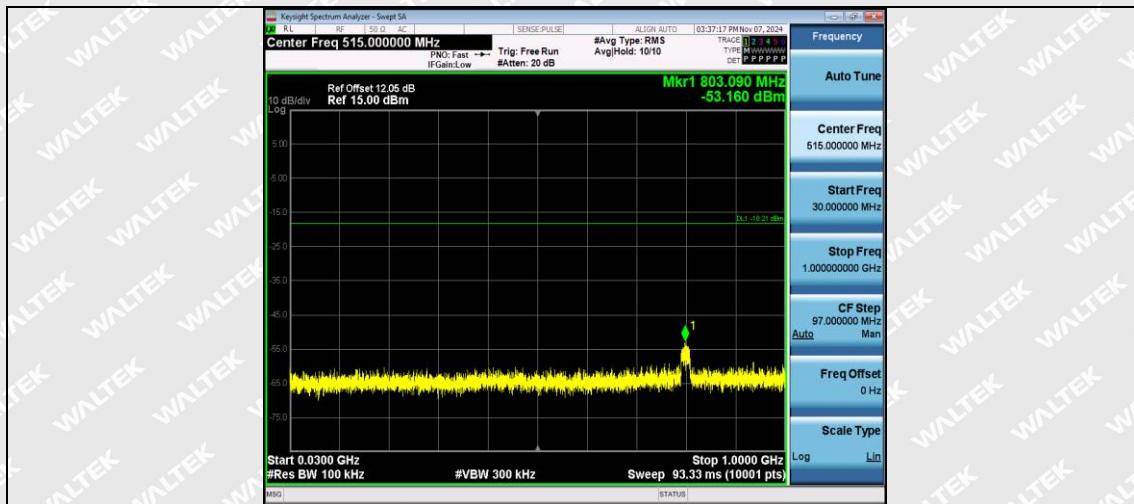
11G-Ant1-2437-1000~26500-PASS



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



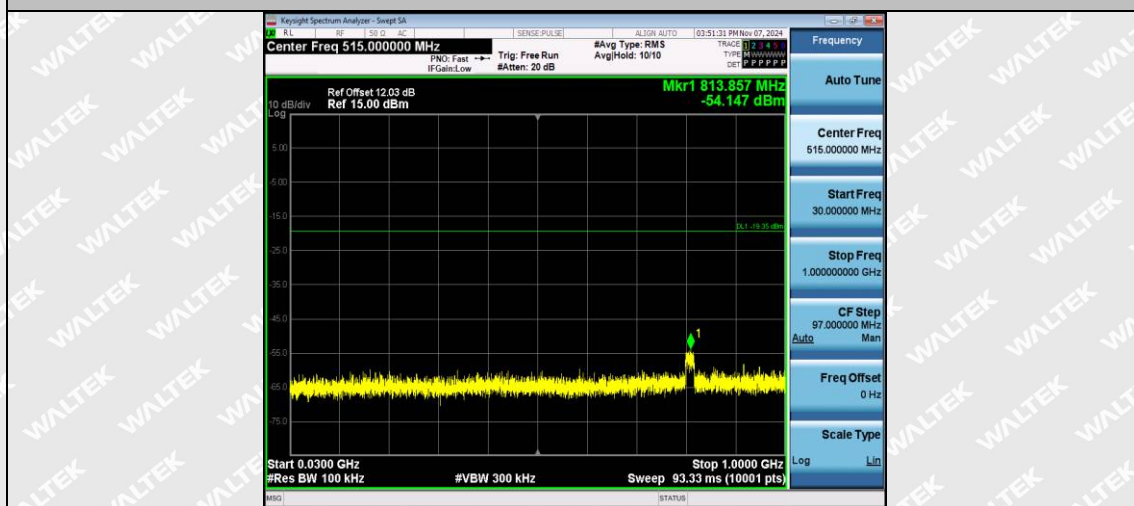
11G-Ant1-2462-1000~26500-PASS



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



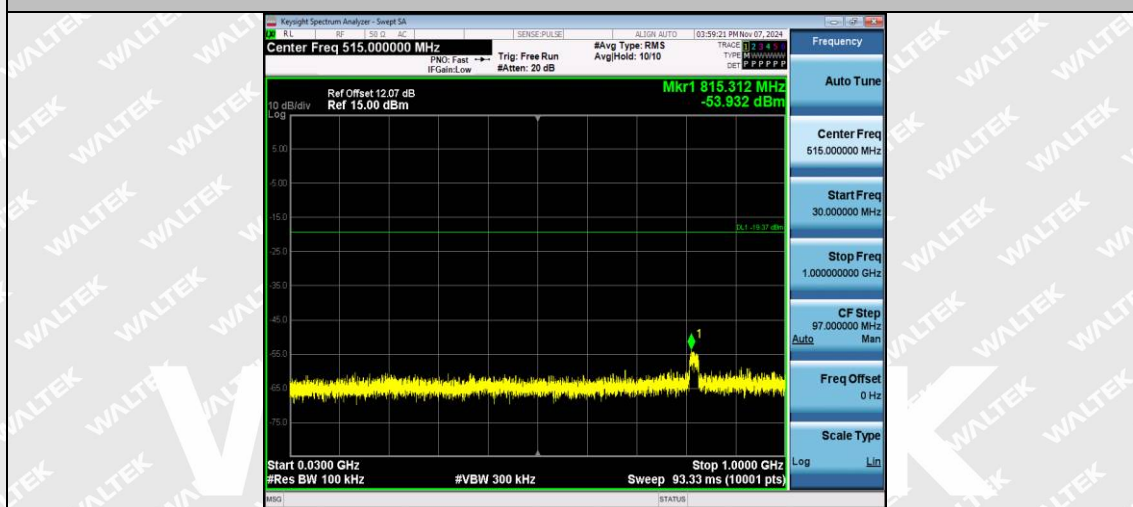
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11N20SISO-Ant1-2437-30~1000-PASS



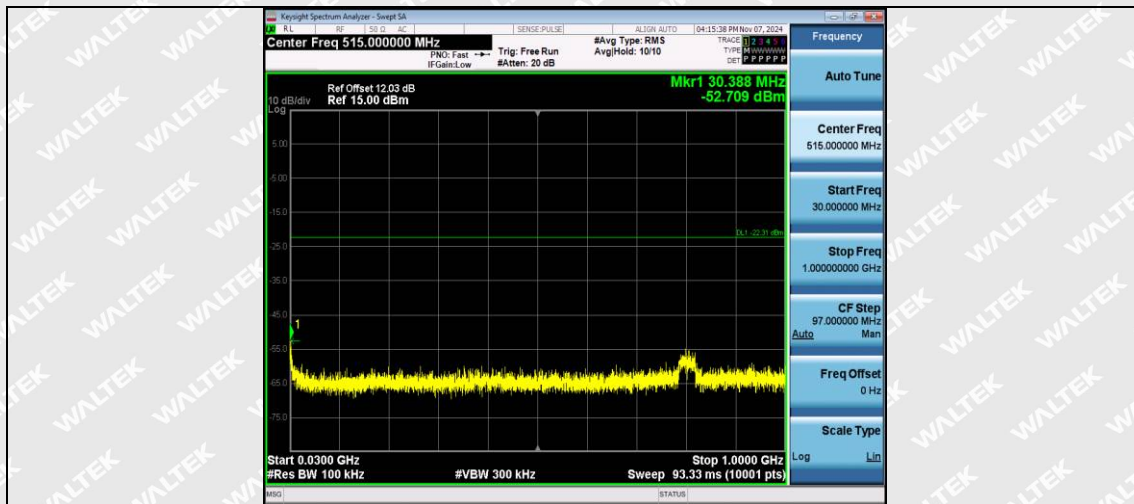
11N20SISO-Ant1-2437-1000~26500-PASS



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



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



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



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



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



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



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



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