

Appendix B: Test Results of 2.4GHz Wi-Fi

APPENDIX B: TEST RESULTS OF 2.4GHZ WI-FI	1
APPENDIX B.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY	2
APPENDIX B.2: TEST RESULTS OF 6DB BANDWIDTH.....	9
APPENDIX B.3: TEST RESULTS OF 99% BANDWIDTH.....	16
APPENDIX B.4: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH.....	23
<i>Band Edge</i>	23
<i>Conducted Spurious Emission</i>	28
APPENDIX B.5: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	47
<i>30MHz - 1GHz (Worst case)</i>	47
<i>1GHz - 18GHz</i>	49
APPENDIX B.6: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	73
APPENDIX B.7: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS.....	89

Appendix B.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.68	≤8.00	PASS
11B	Ant1	2437	-9.90	≤8.00	PASS
11B	Ant1	2462	-6.85	≤8.00	PASS
11G	Ant1	2412	-14.53	≤8.00	PASS
11G	Ant1	2437	-13.96	≤8.00	PASS
11G	Ant1	2462	-13.68	≤8.00	PASS
11N20SISO	Ant1	2412	-12.15	≤8.00	PASS
11N20SISO	Ant1	2437	-11.48	≤8.00	PASS
11N20SISO	Ant1	2462	-10.91	≤8.00	PASS
11N40SISO	Ant1	2422	-14.56	≤8.00	PASS
11N40SISO	Ant1	2437	-14.45	≤8.00	PASS
11N40SISO	Ant1	2452	-14.55	≤8.00	PASS

11B-Ant1-2412-PASS



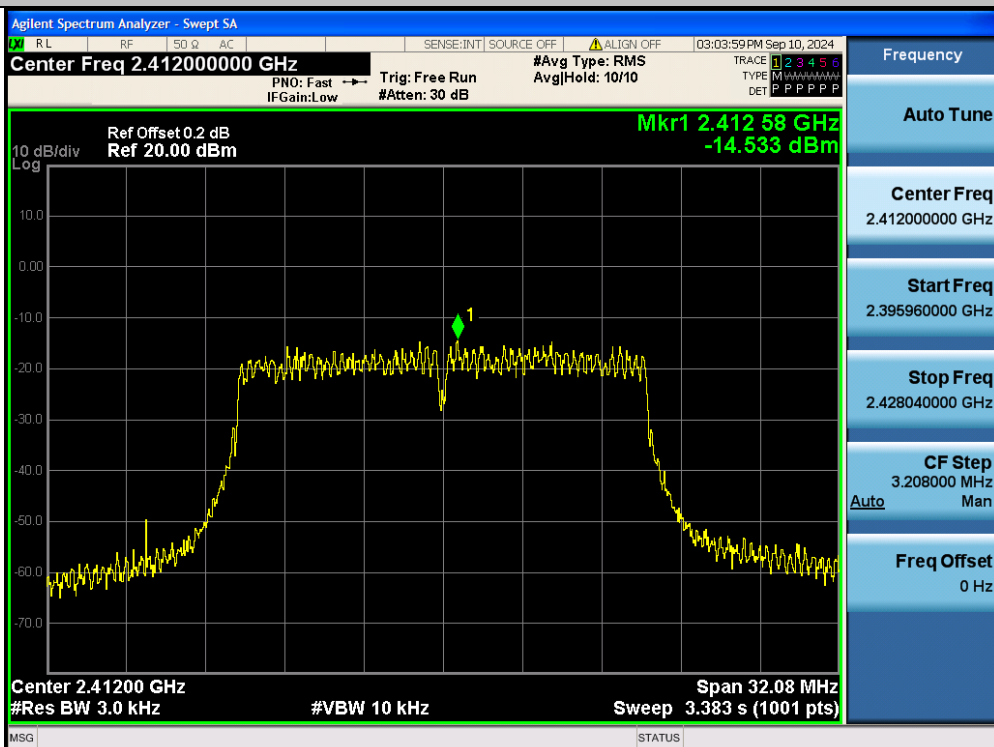
11B-Ant1-2437-PASS



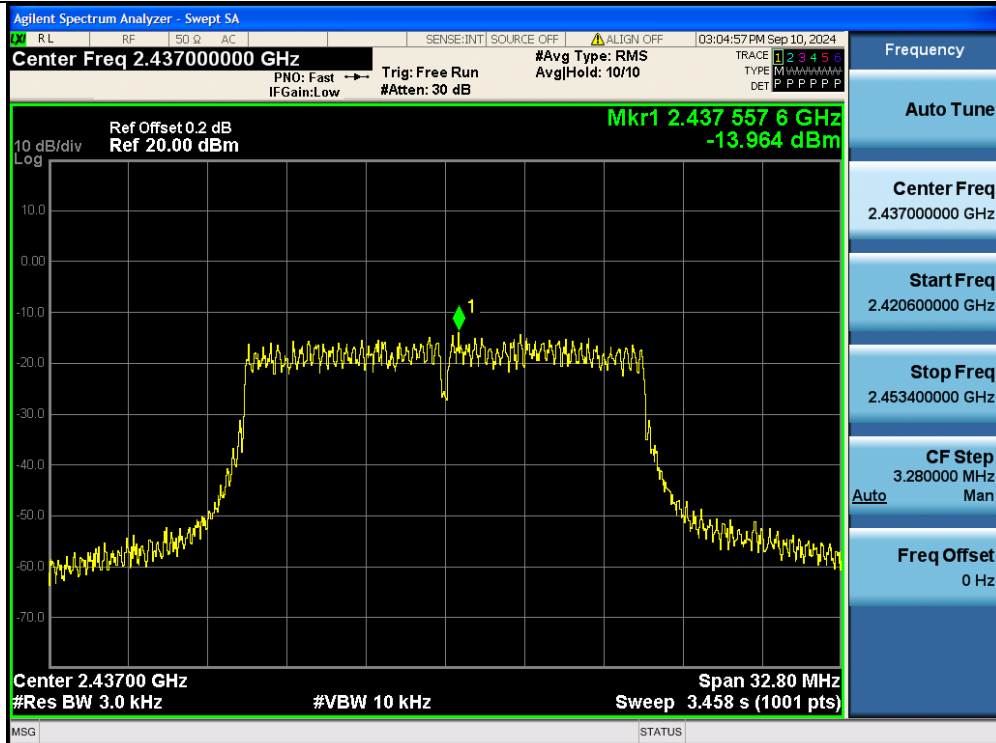
11B-Ant1-2462-PASS



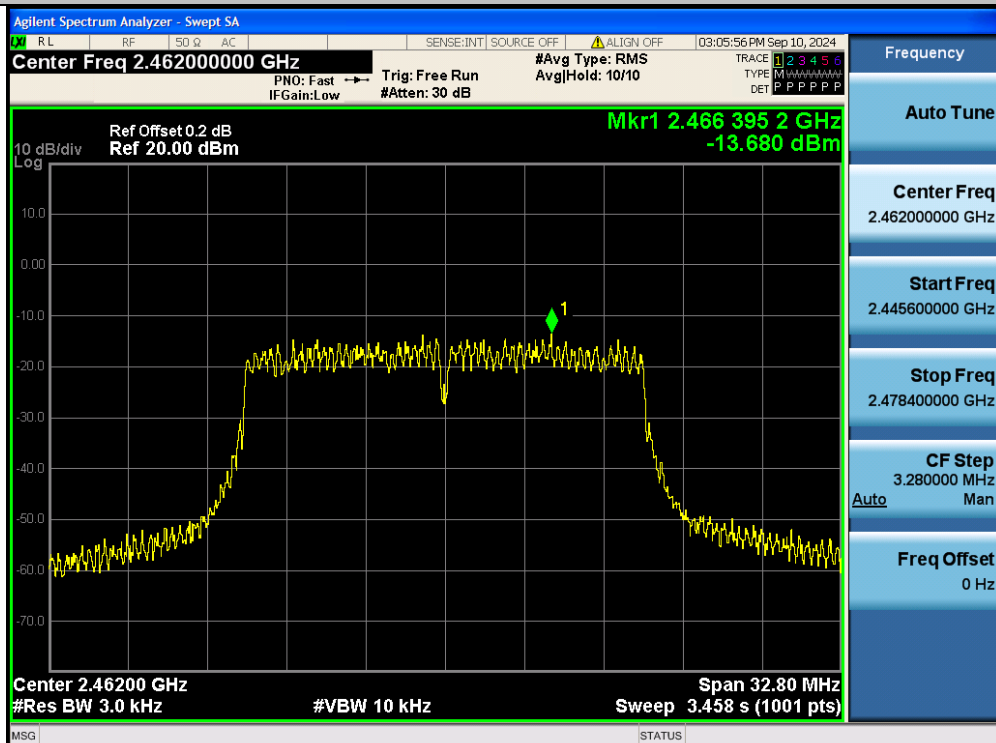
11G-Ant1-2412-PASS



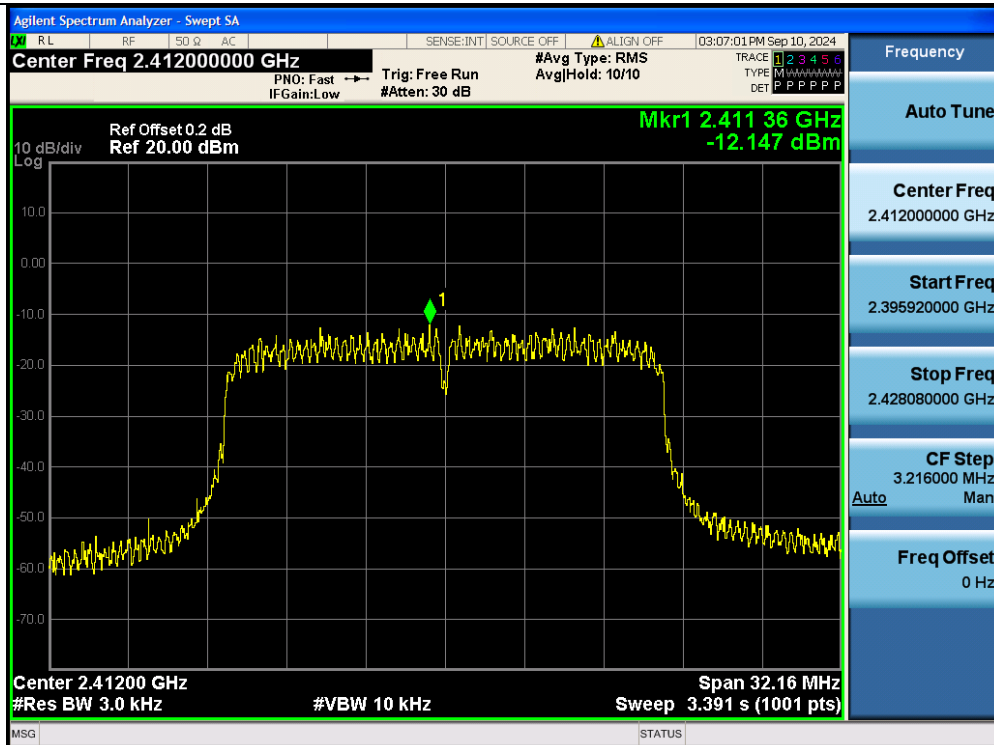
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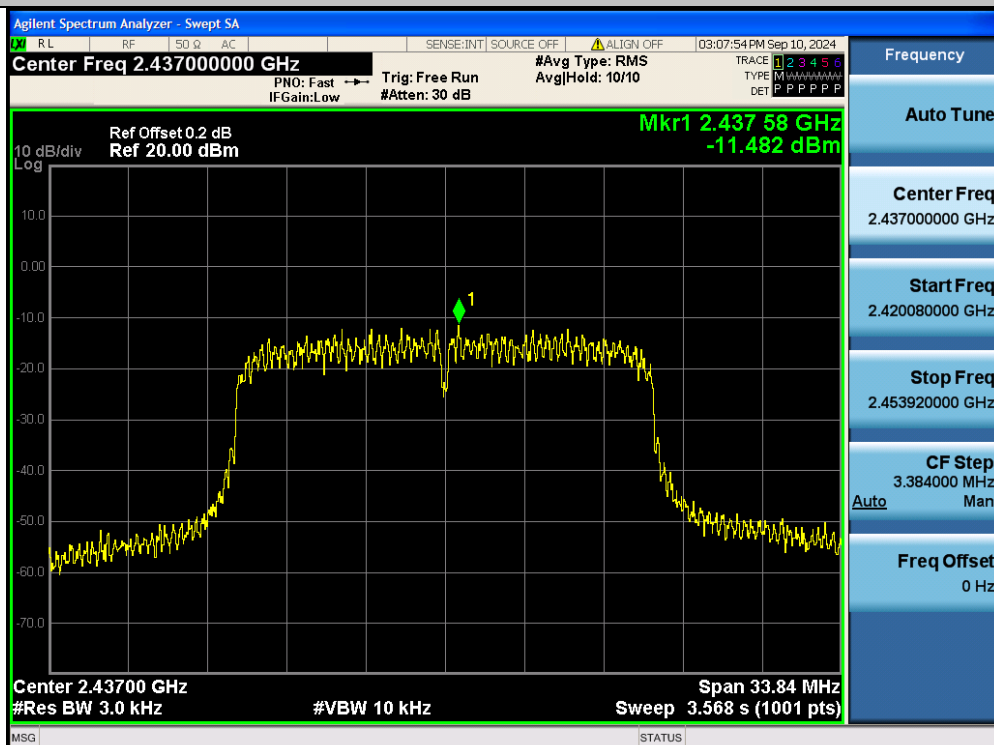
11G-Ant1-2462-PASS



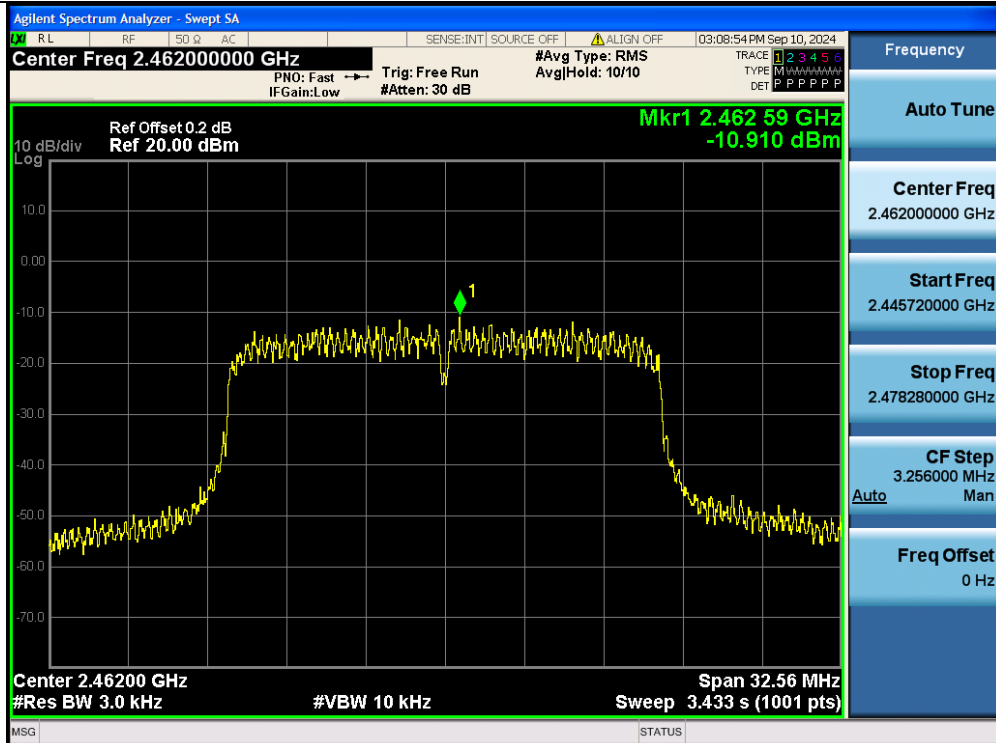
11N20SISO-Ant1-2412-PASS



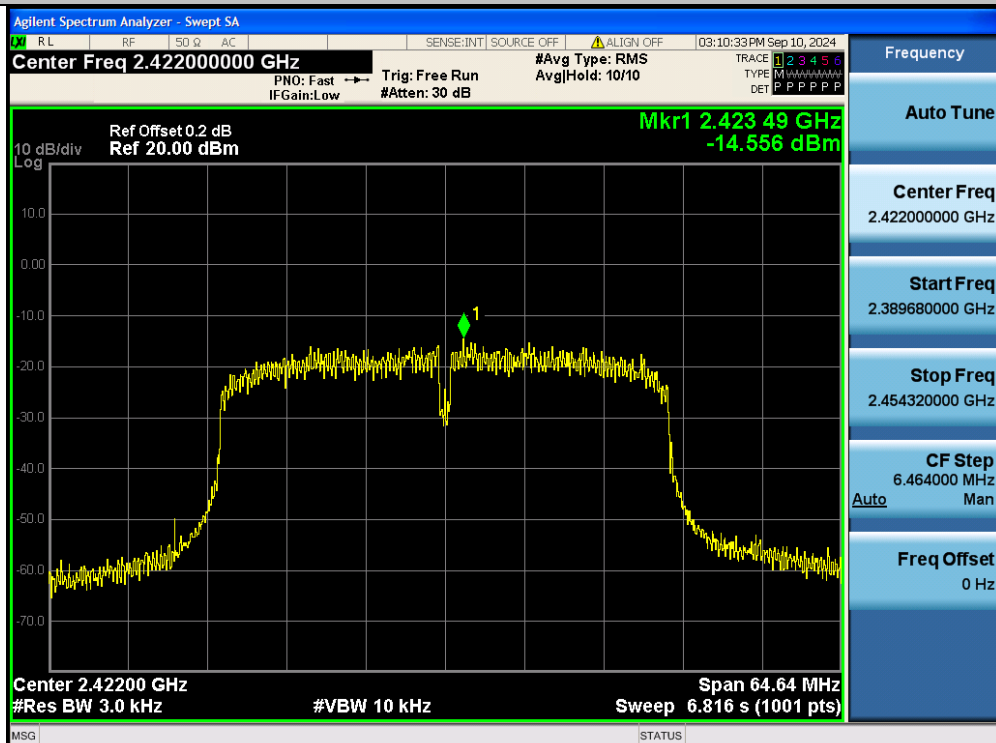
11N20SISO-Ant1-2437-PASS



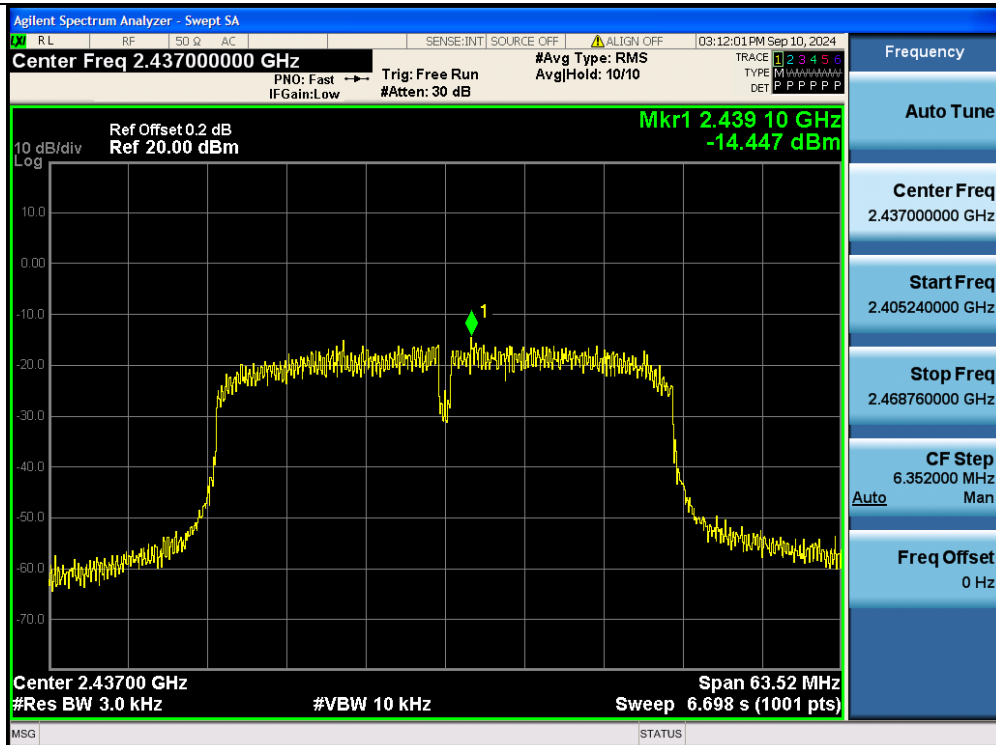
11N20SISO-Ant1-2462-PASS



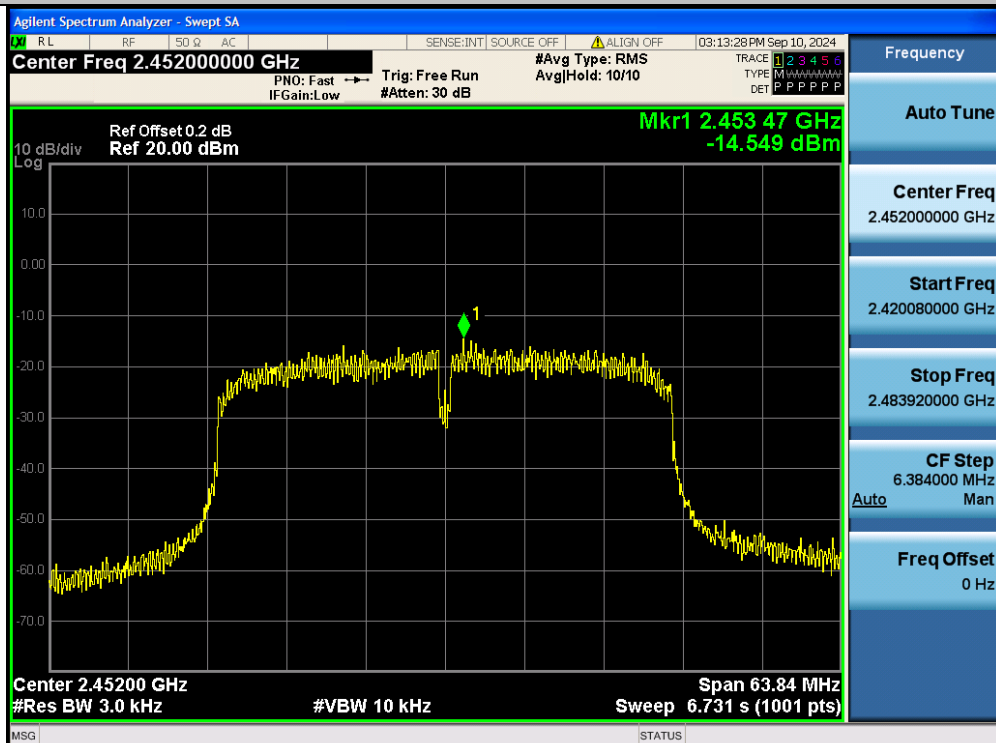
11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



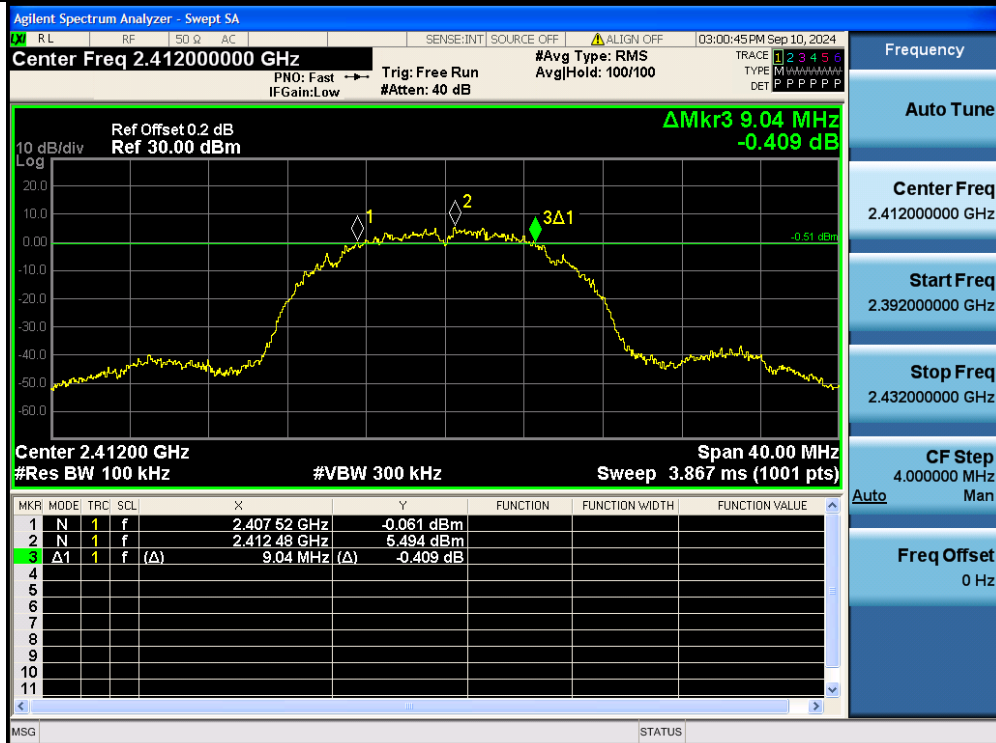
11N40SISO-Ant1-2452-PASS



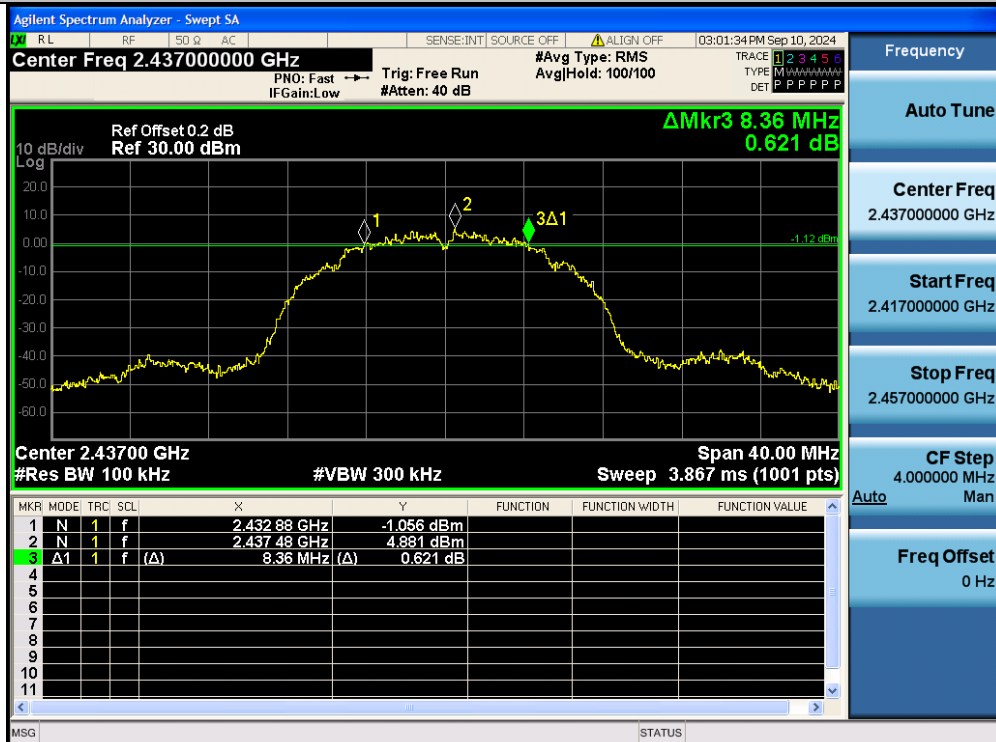
Appendix B.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.040	2407.520	2416.560	0.5	PASS
11B	Ant1	2437	8.360	2432.880	2441.240	0.5	PASS
11B	Ant1	2462	8.440	2457.760	2466.200	0.5	PASS
11G	Ant1	2412	16.040	2404.080	2420.120	0.5	PASS
11G	Ant1	2437	16.400	2428.800	2445.200	0.5	PASS
11G	Ant1	2462	16.400	2453.800	2470.200	0.5	PASS
11N20SISO	Ant1	2412	16.080	2404.080	2420.160	0.5	PASS
11N20SISO	Ant1	2437	16.920	2428.600	2445.520	0.5	PASS
11N20SISO	Ant1	2462	16.280	2453.880	2470.160	0.5	PASS
11N40SISO	Ant1	2422	32.320	2405.680	2438.000	0.5	PASS
11N40SISO	Ant1	2437	31.760	2421.880	2453.640	0.5	PASS
11N40SISO	Ant1	2452	31.920	2437.600	2469.520	0.5	PASS

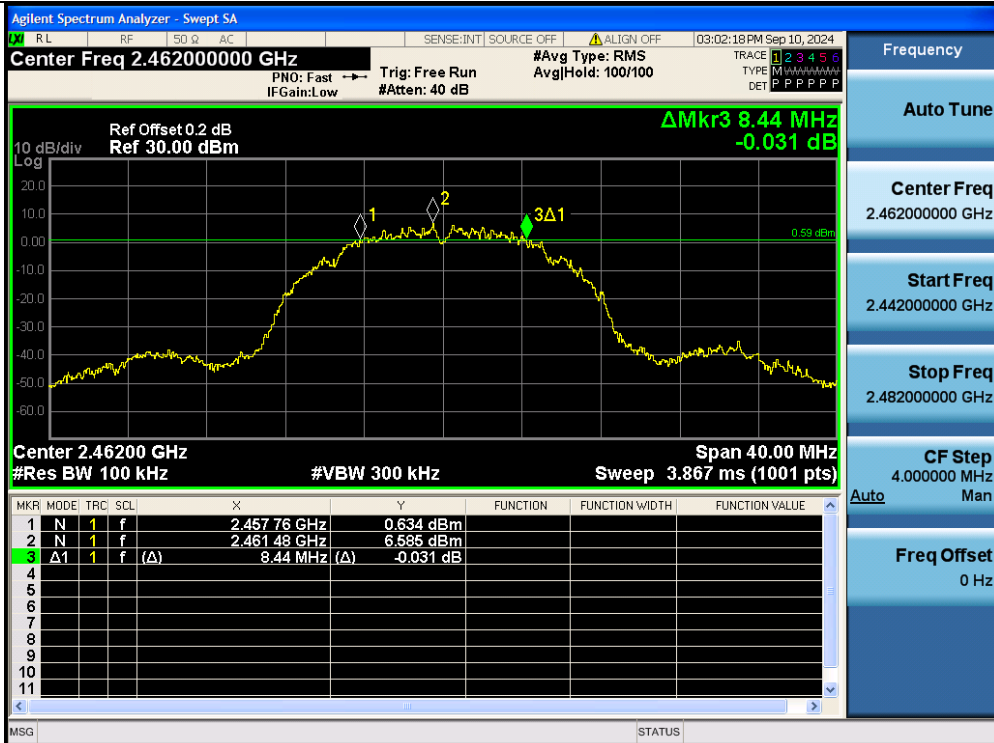
11B-Ant1-2412-PASS



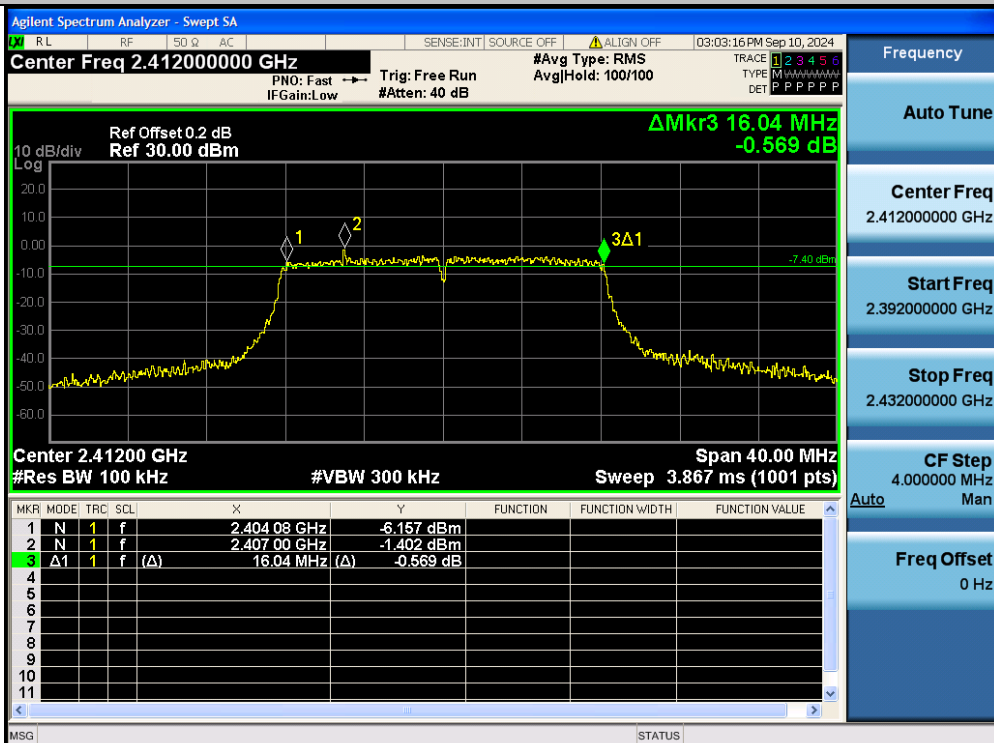
11B-Ant1-2437-PASS



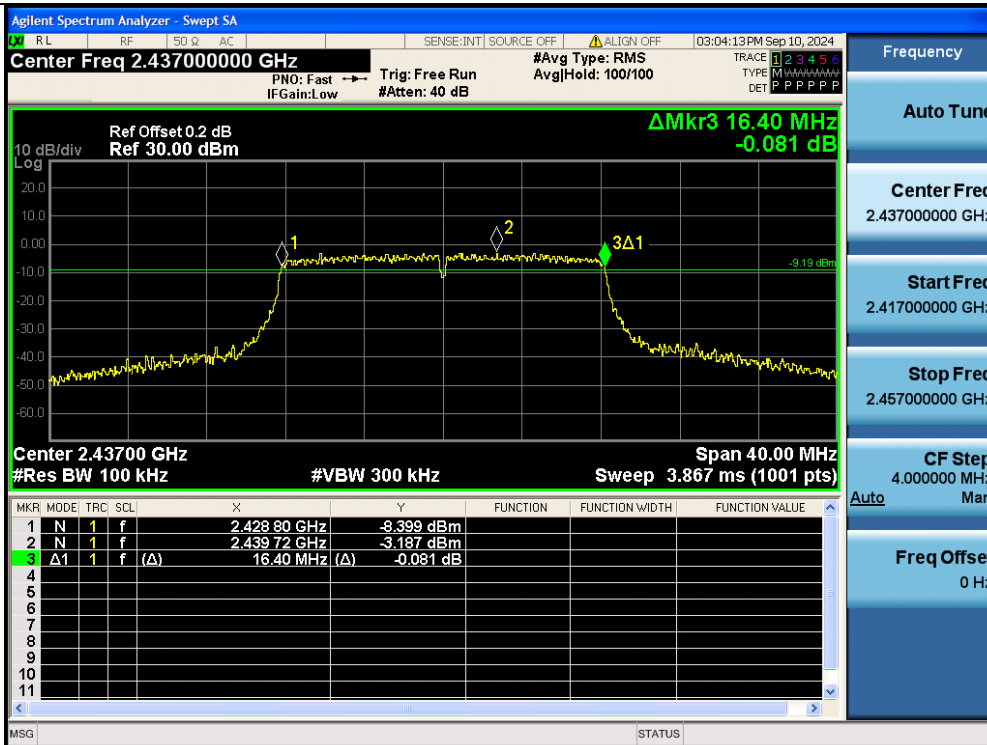
11B-Ant1-2462-PASS



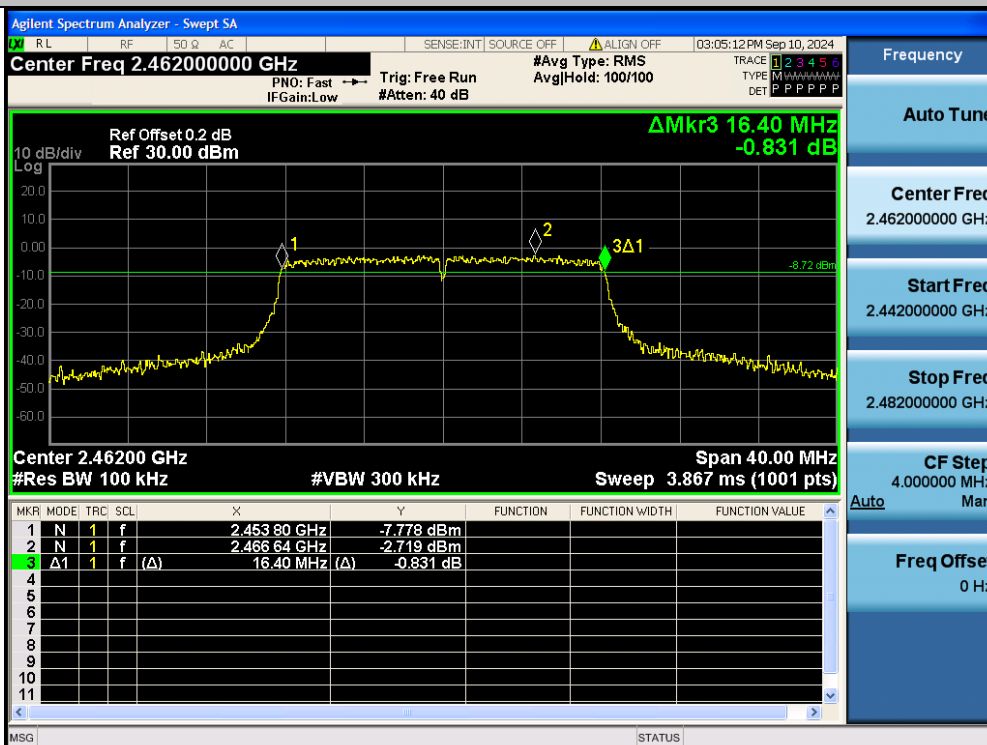
11G-Ant1-2412-PASS



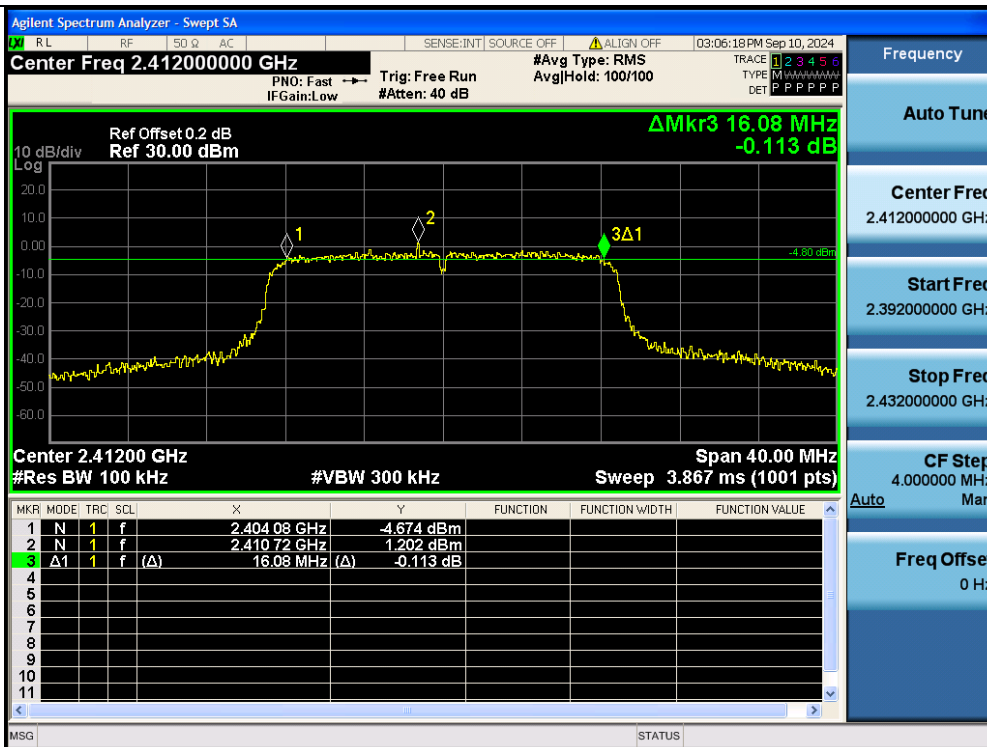
11G-Ant1-2437-PASS



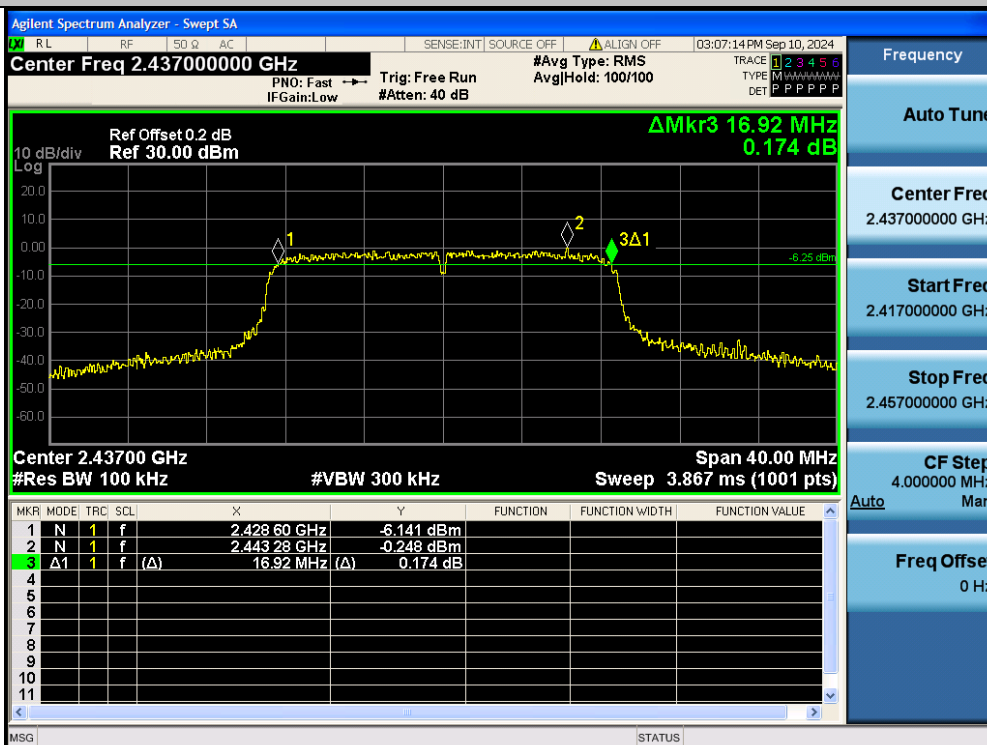
11G-Ant1-2462-PASS



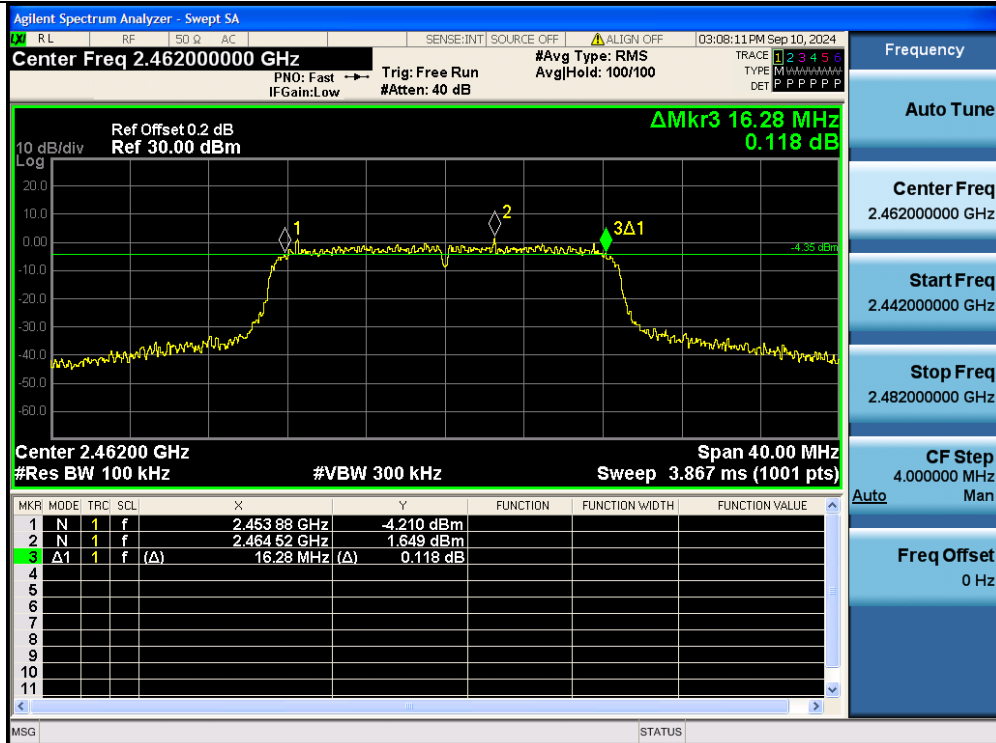
11N20SISO-Ant1-2412-PASS



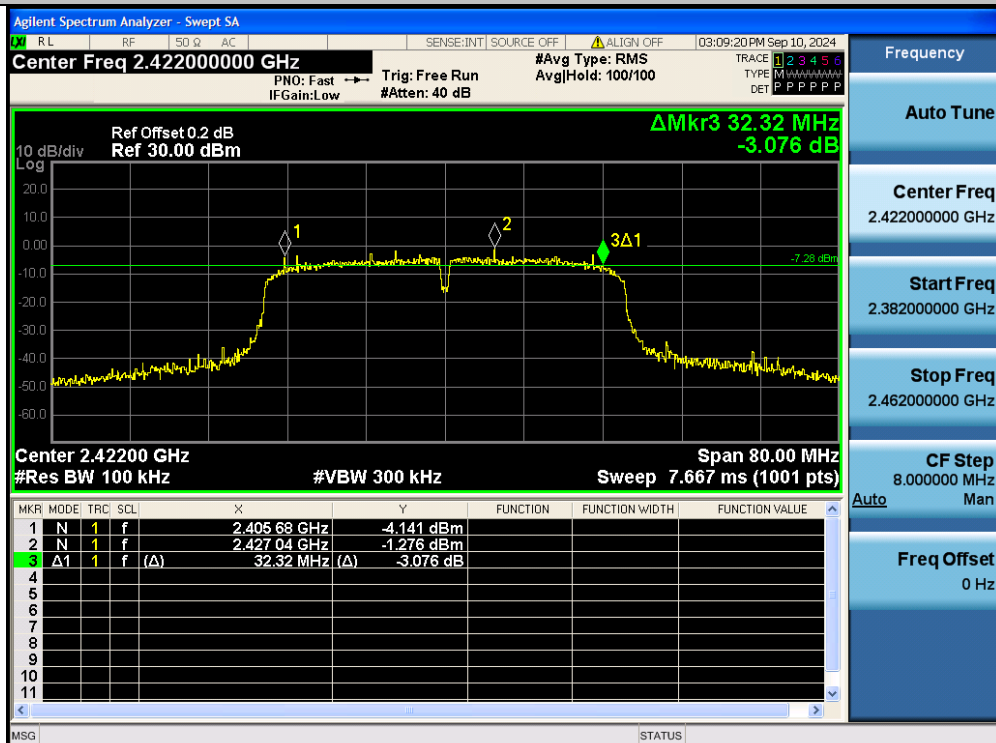
11N20SISO-Ant1-2437-PASS



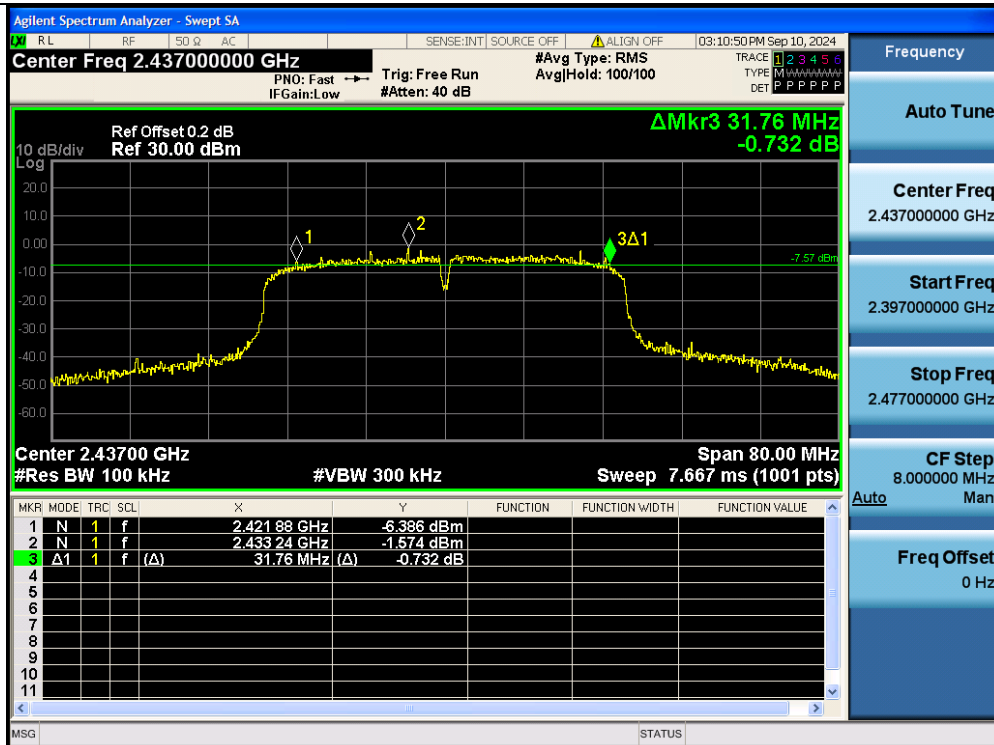
11N20SISO-Ant1-2462-PASS



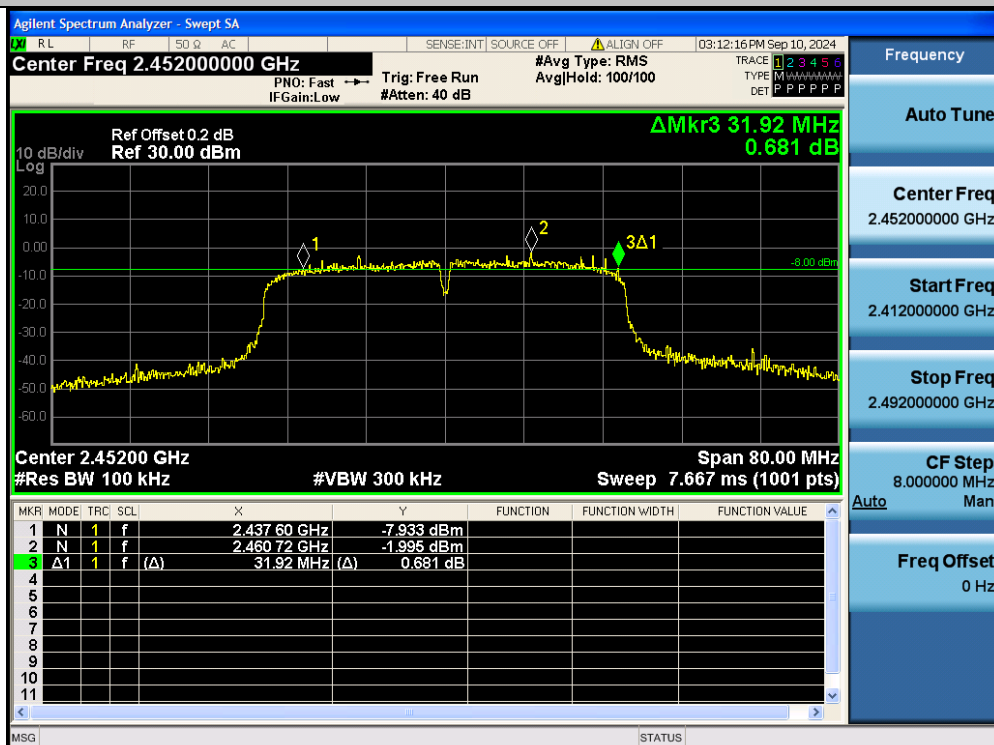
11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



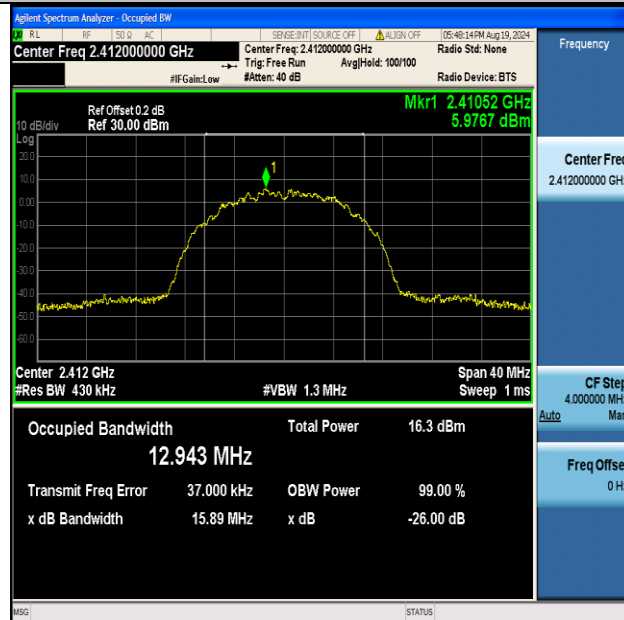
11N40SISO-Ant1-2452-PASS



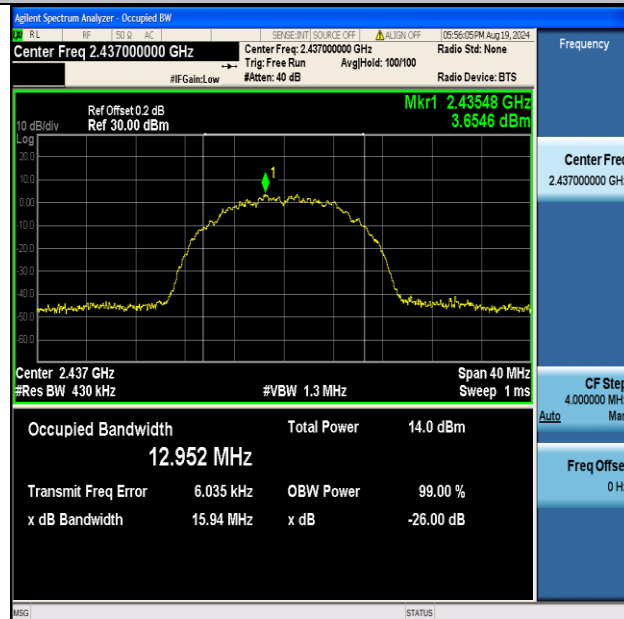
Appendix B.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.943	2405.5655	2418.5085	Within assnged band 2400- 2483.5MHz	PASS
11B	Ant1	2437	12.952	2430.5300	2443.4820		PASS
11B	Ant1	2462	12.929	2455.5381	2468.4671		PASS
11G	Ant1	2412	16.468	2403.8341	2420.3021		PASS
11G	Ant1	2437	16.474	2428.8195	2445.2935		PASS
11G	Ant1	2462	16.505	2453.7757	2470.2807		PASS
11N20SISO	Ant1	2412	17.239	2403.4185	2420.6575		PASS
11N20SISO	Ant1	2437	17.231	2428.4321	2445.6631		PASS
11N20SISO	Ant1	2462	17.267	2453.3781	2470.6451		PASS
11N40SISO	Ant1	2422	35.273	2404.4832	2439.7562		PASS
11N40SISO	Ant1	2437	35.290	2419.5089	2454.7989		PASS
11N40SISO	Ant1	2452	35.316	2434.5382	2469.8542		PASS

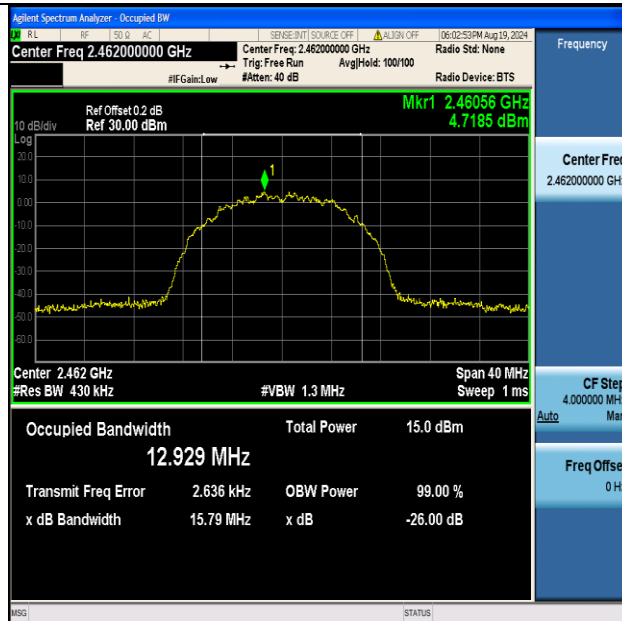
11B-Ant1-2412



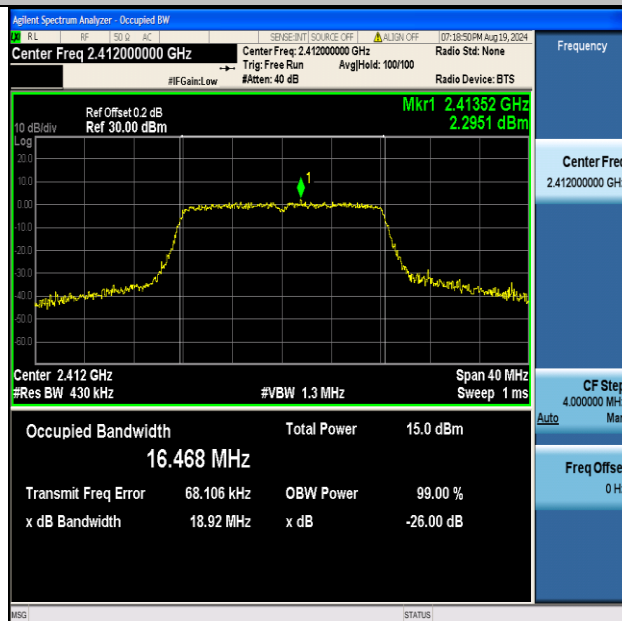
11B-Ant1-2437



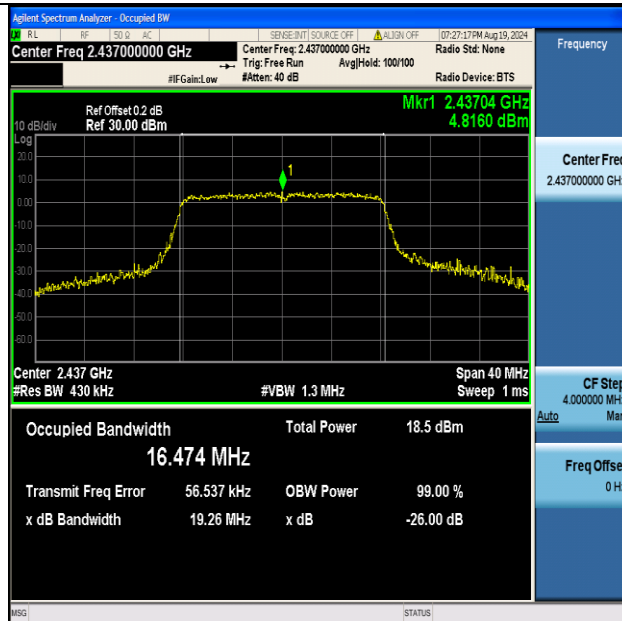
11B-Ant1-2462



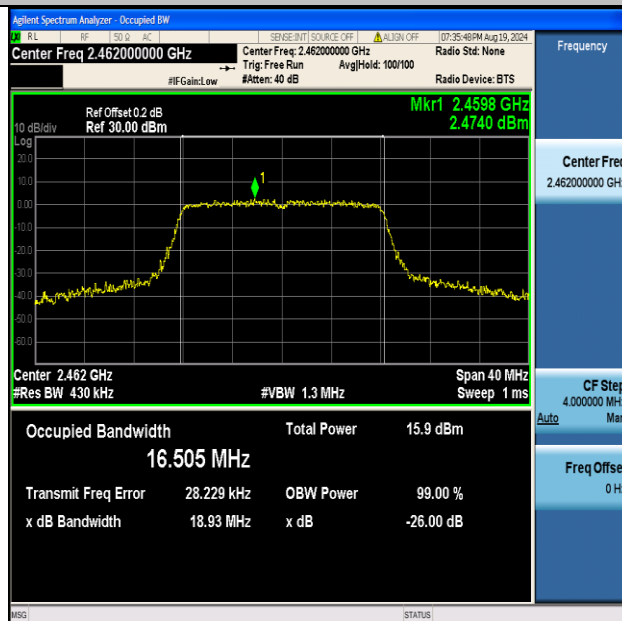
11G-Ant1-2412



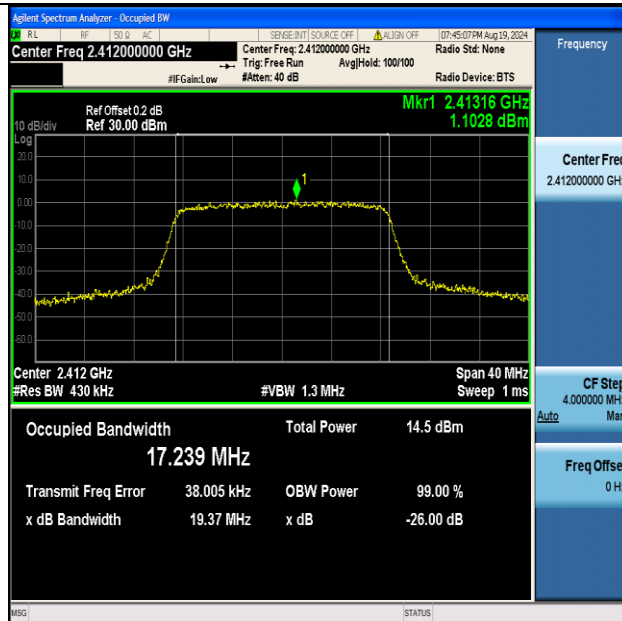
11G-Ant1-2437



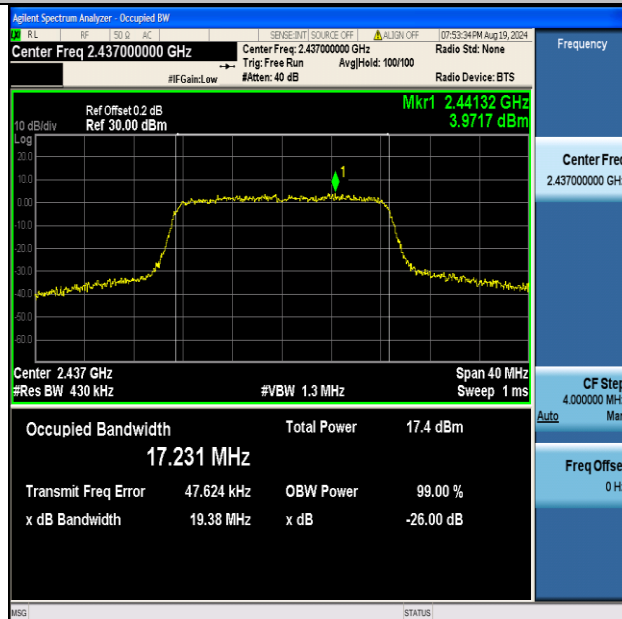
11G-Ant1-2462



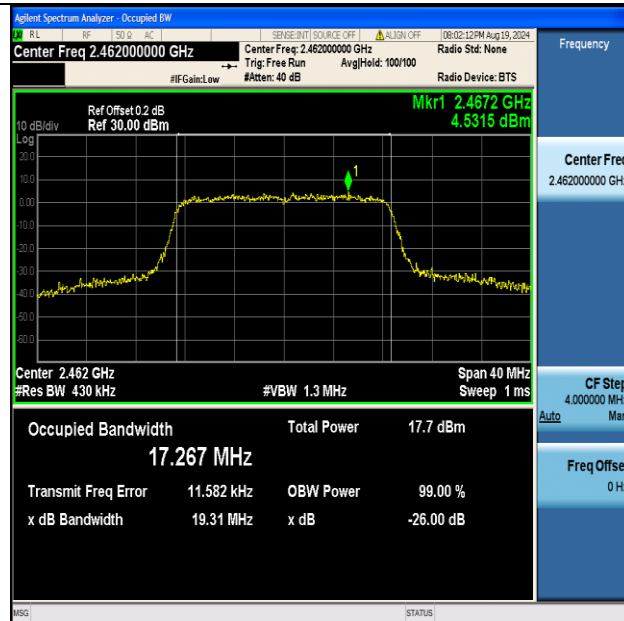
11N20SISO-Ant1-2412



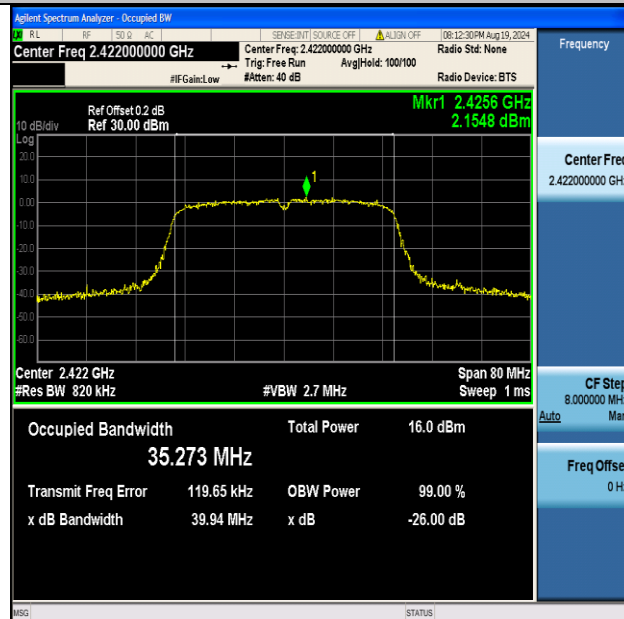
11N20SISO-Ant1-2437



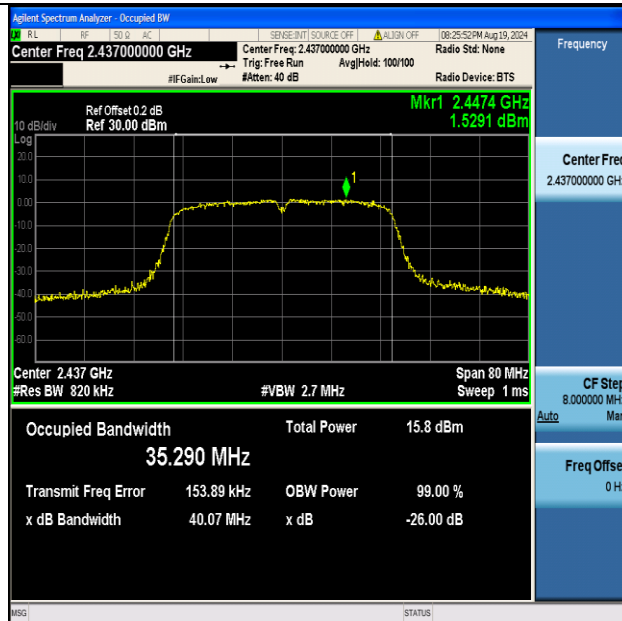
11N20SISO-Ant1-2462



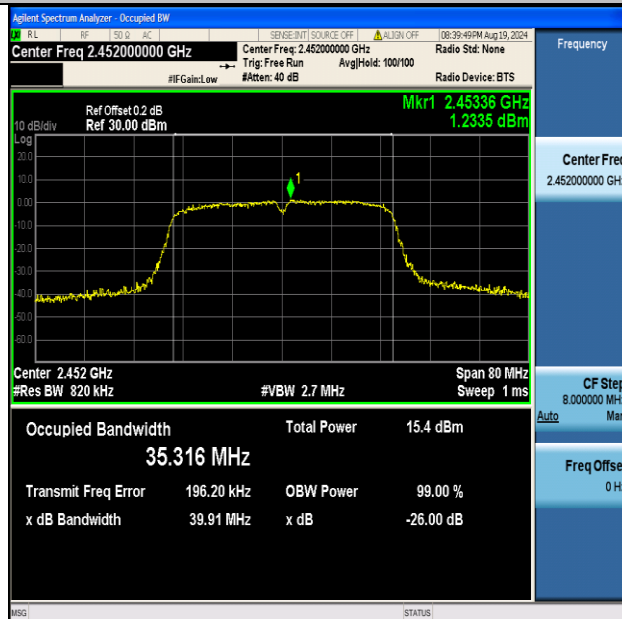
11N40SISO-Ant1-2422



11N40SISO-Ant1-2437



11N40SiSO-Ant1-2452

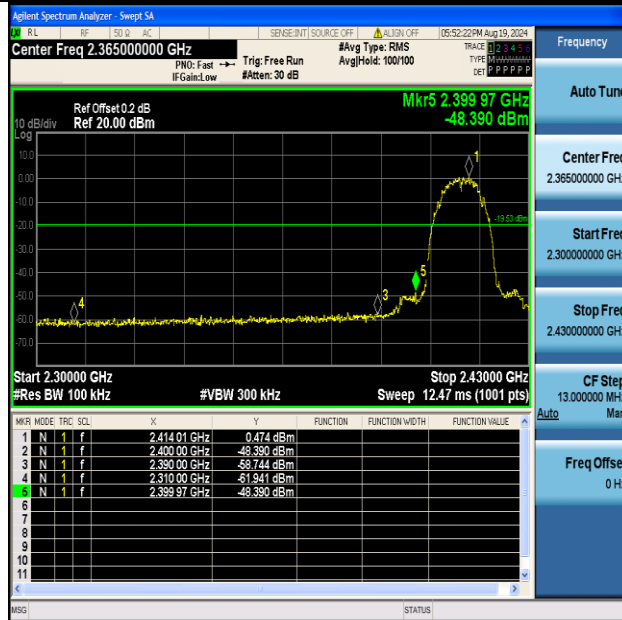


Appendix B.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

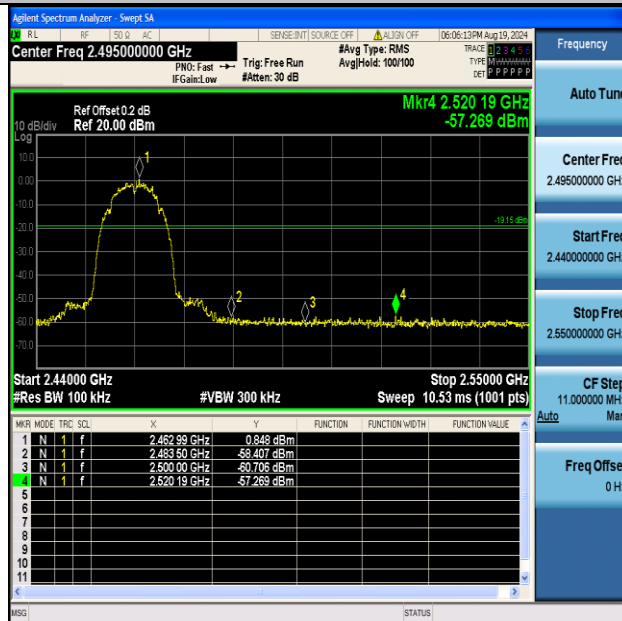
Band Edge

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	0.47	-48.39	≤-19.53	PASS
11B	Ant1	High	2462	0.85	-57.27	≤-19.15	PASS
11G	Ant1	Low	2412	-2.94	-41.89	≤-22.94	PASS
11G	Ant1	High	2462	-1.11	-50.16	≤-21.11	PASS
11N20SISO	Ant1	Low	2412	-2.70	-41.38	≤-22.7	PASS
11N20SISO	Ant1	High	2462	1.37	-46.12	≤-18.63	PASS
11N40SISO	Ant1	Low	2422	-4.76	-41.97	≤-24.76	PASS
11N40SISO	Ant1	High	2452	-4.92	-42.98	≤-24.92	PASS

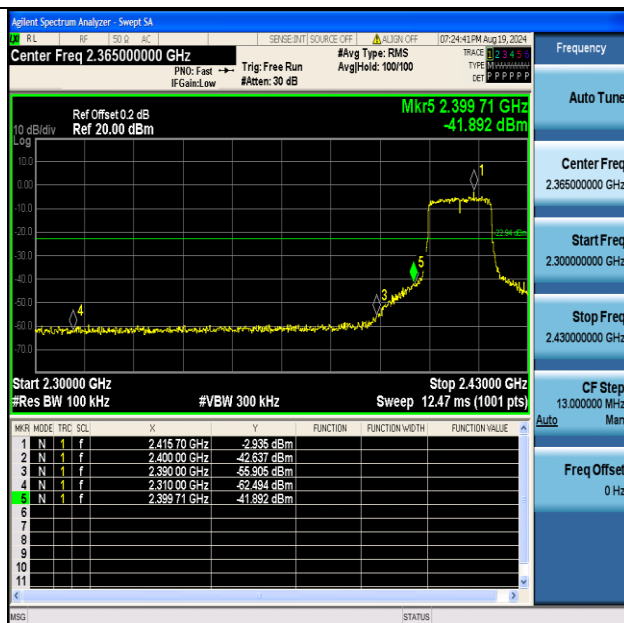
11B-Ant1-2412-PASS



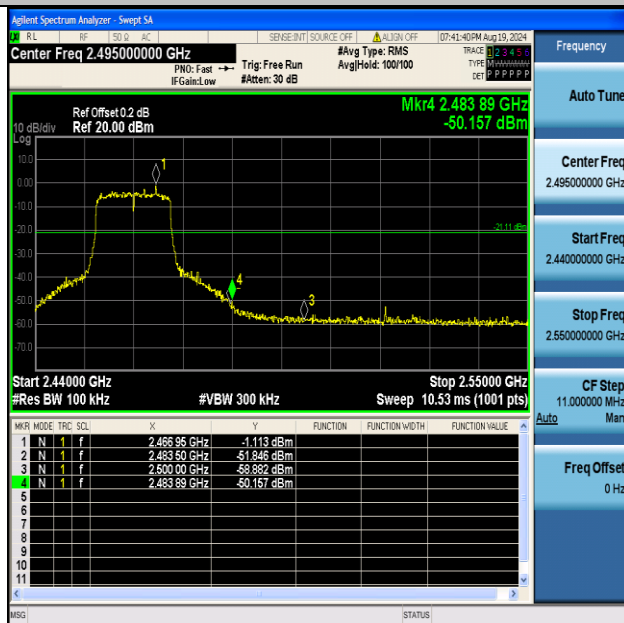
11B-Ant1-2462-PASS



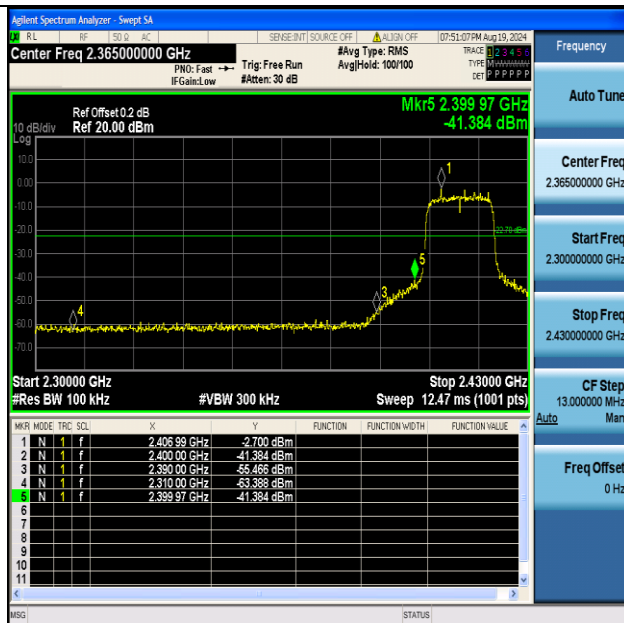
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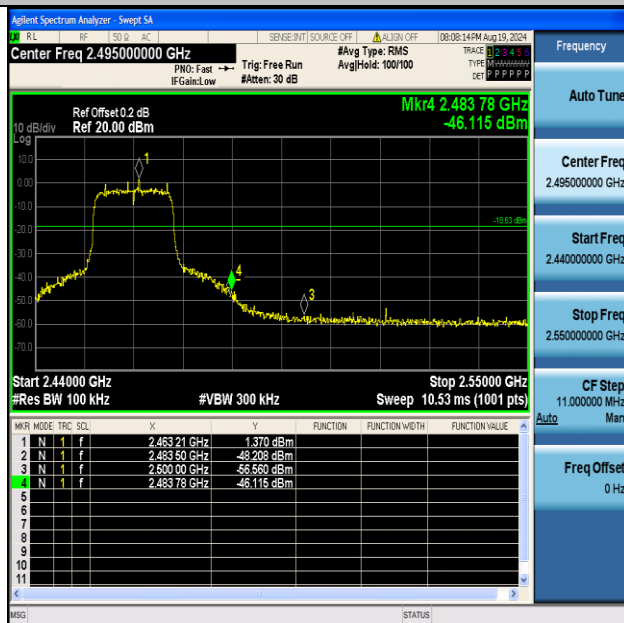
11G-Ant1-2462-PASS



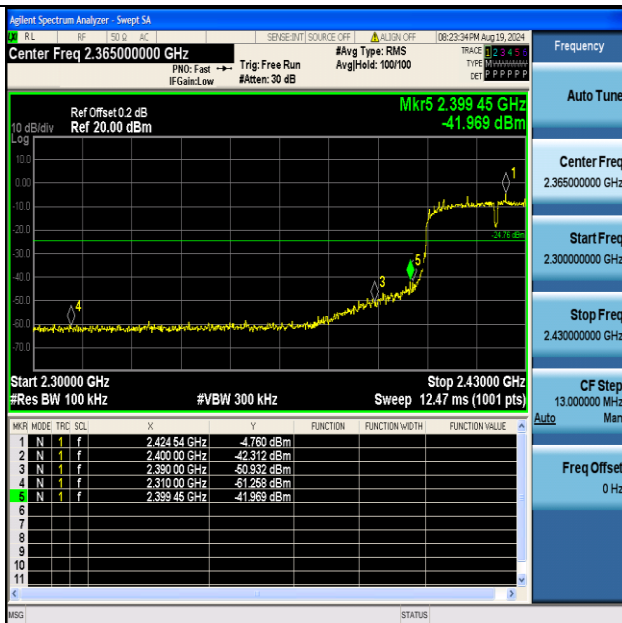
11N20SISO-Ant1-2412-PASS



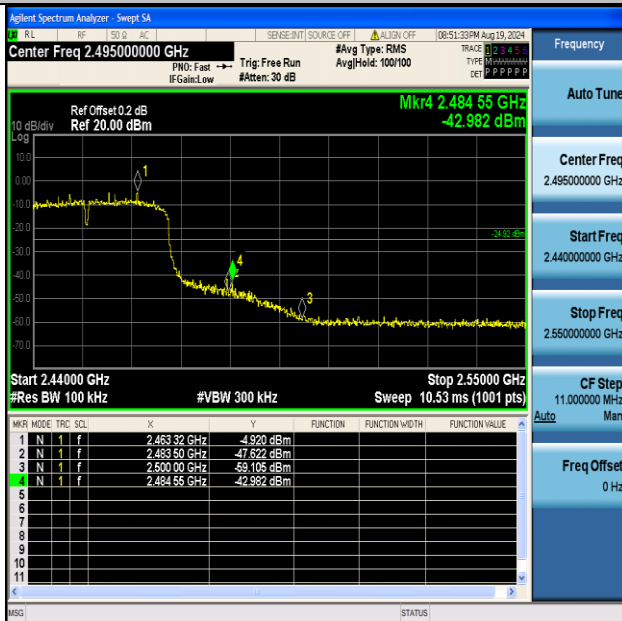
11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



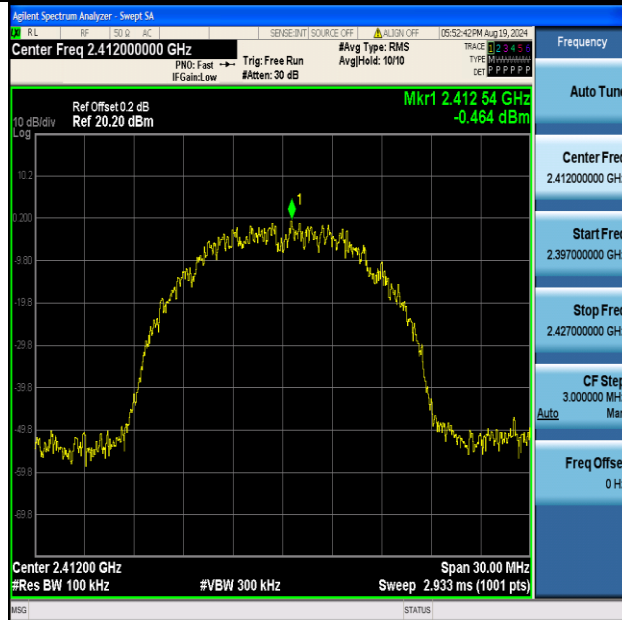
11N40SISO-Ant1-2452-PASS



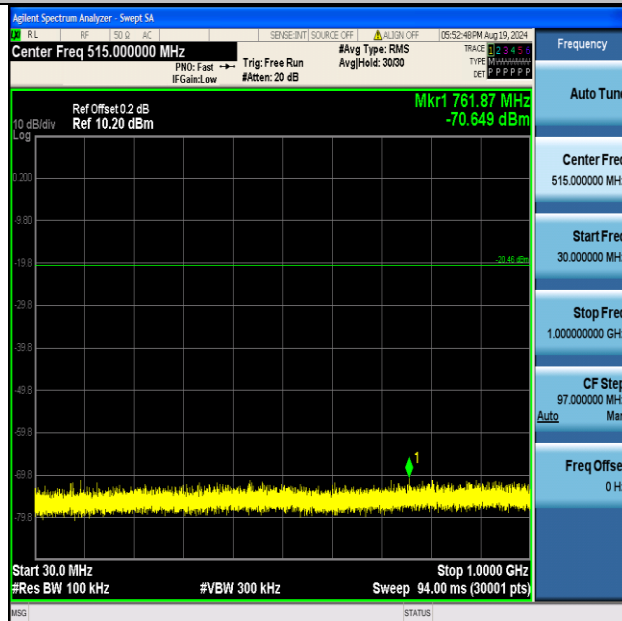
Conducted Spurious Emission

TestMode	Antenna	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	-0.46	-0.46	---	PASS
11B	Ant1	2412	30~1000	-0.46	-70.65	≤-20.46	PASS
11B	Ant1	2412	1000~26500	-0.46	-49.27	≤-20.46	PASS
11B	Ant1	2437	0~Reference	-2.17	-2.17	---	PASS
11B	Ant1	2437	30~1000	-2.17	-70.23	≤-22.17	PASS
11B	Ant1	2437	1000~26500	-2.17	-52.68	≤-22.17	PASS
11B	Ant1	2462	0~Reference	-1.28	-1.28	---	PASS
11B	Ant1	2462	30~1000	-1.28	-70.12	≤-21.28	PASS
11B	Ant1	2462	1000~26500	-1.28	-51.62	≤-21.28	PASS
11G	Ant1	2412	0~Reference	-5.62	-5.62	---	PASS
11G	Ant1	2412	30~1000	-5.62	-70.23	≤-25.62	PASS
11G	Ant1	2412	1000~26500	-5.62	-53.45	≤-25.62	PASS
11G	Ant1	2437	0~Reference	-1.76	-1.76	---	PASS
11G	Ant1	2437	30~1000	-1.76	-70.49	≤-21.76	PASS
11G	Ant1	2437	1000~26500	-1.76	-52.13	≤-21.76	PASS
11G	Ant1	2462	0~Reference	-4.36	-4.36	---	PASS
11G	Ant1	2462	30~1000	-4.36	-70.33	≤-24.36	PASS
11G	Ant1	2462	1000~26500	-4.36	-51.57	≤-24.36	PASS
11N20SISO	Ant1	2412	0~Reference	-2.81	-2.81	---	PASS
11N20SISO	Ant1	2412	30~1000	-2.81	-70.57	≤-22.81	PASS
11N20SISO	Ant1	2412	1000~26500	-2.81	-53.09	≤-22.81	PASS
11N20SISO	Ant1	2437	0~Reference	-2.27	-2.27	---	PASS
11N20SISO	Ant1	2437	30~1000	-2.27	-69.9	≤-22.27	PASS
11N20SISO	Ant1	2437	1000~26500	-2.27	-52.32	≤-22.27	PASS
11N20SISO	Ant1	2462	0~Reference	-2.02	-2.02	---	PASS
11N20SISO	Ant1	2462	30~1000	-2.02	-70.38	≤-22.02	PASS
11N20SISO	Ant1	2462	1000~26500	-2.02	-50.85	≤-22.02	PASS
11N40SISO	Ant1	2422	0~Reference	-5.09	-5.09	---	PASS
11N40SISO	Ant1	2422	30~1000	-5.09	-70.38	≤-25.09	PASS
11N40SISO	Ant1	2422	1000~26500	-5.09	-53.68	≤-25.09	PASS
11N40SISO	Ant1	2437	0~Reference	-5.19	-5.19	---	PASS
11N40SISO	Ant1	2437	30~1000	-5.19	-69.83	≤-25.19	PASS
11N40SISO	Ant1	2437	1000~26500	-5.19	-52.44	≤-25.19	PASS
11N40SISO	Ant1	2452	0~Reference	-7.92	-7.92	---	PASS
11N40SISO	Ant1	2452	30~1000	-7.92	-70.33	≤-27.92	PASS
11N40SISO	Ant1	2452	1000~26500	-7.92	-50.88	≤-27.92	PASS

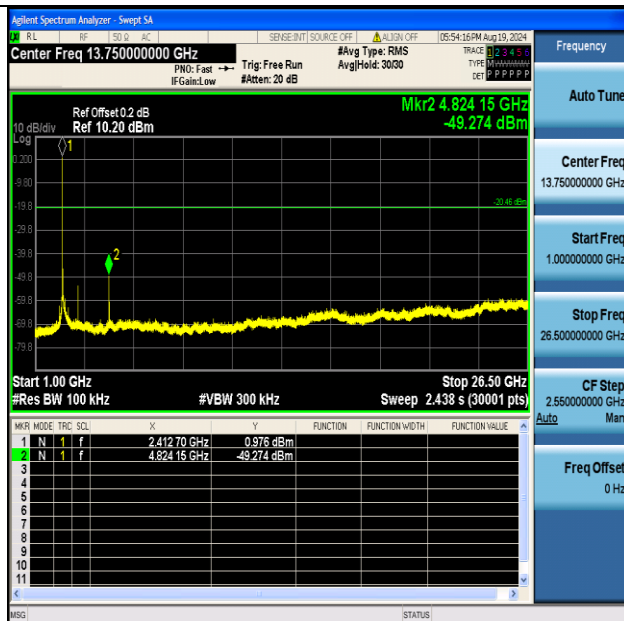
11B-Ant1-2412-0-Reference-PASS



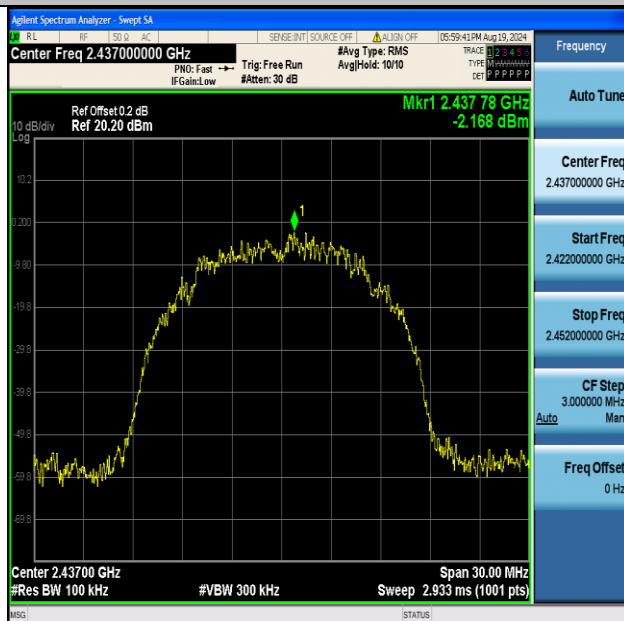
11B-Ant1-2412-30~1000-PASS



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



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



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