

Appendix A: Test Results of 2.4GHz Wi-Fi

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Appendix A.1: Test Results of 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.080	2407.480	2416.560	0.5	PASS
		2437	8.560	2432.960	2441.520	0.5	PASS
		2462	9.520	2457.480	2467.000	0.5	PASS
11G	Ant1	2412	14.040	2405.440	2419.480	0.5	PASS
		2437	16.000	2429.160	2445.160	0.5	PASS
		2462	15.280	2454.280	2469.560	0.5	PASS
11N20SISO	Ant1	2412	15.200	2404.560	2419.760	0.5	PASS
		2437	13.840	2430.680	2444.520	0.5	PASS
		2462	13.760	2455.760	2469.520	0.5	PASS
11N40SISO	Ant1	2422	28.640	2407.040	2435.680	0.5	PASS
		2437	31.280	2423.240	2454.520	0.5	PASS
		2452	31.280	2434.480	2465.760	0.5	PASS

DTS bandwidth with RBW in the range of 1% to 5% of the OBW is larger than with RBW100kHz

Test Graphs

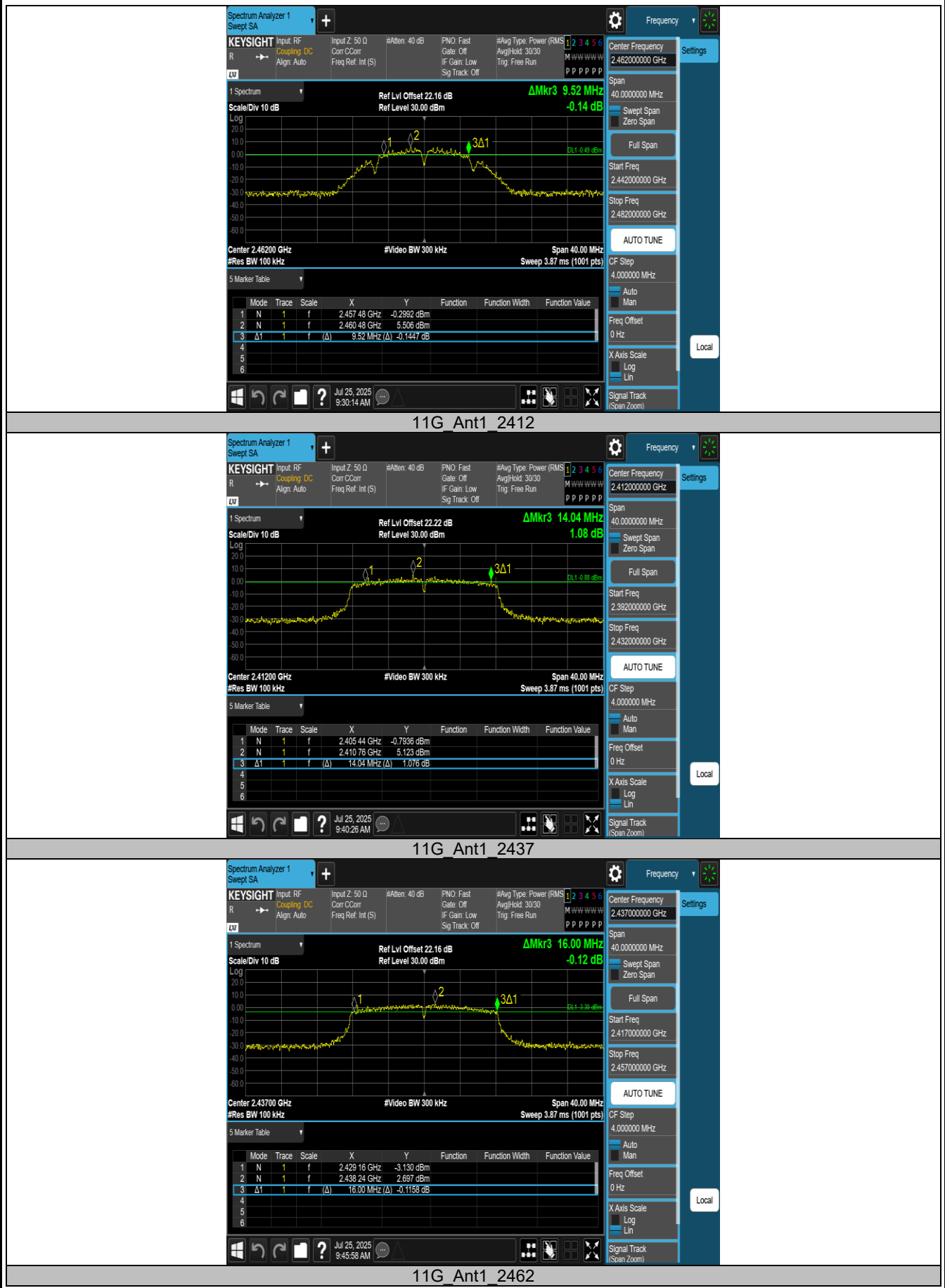
11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462





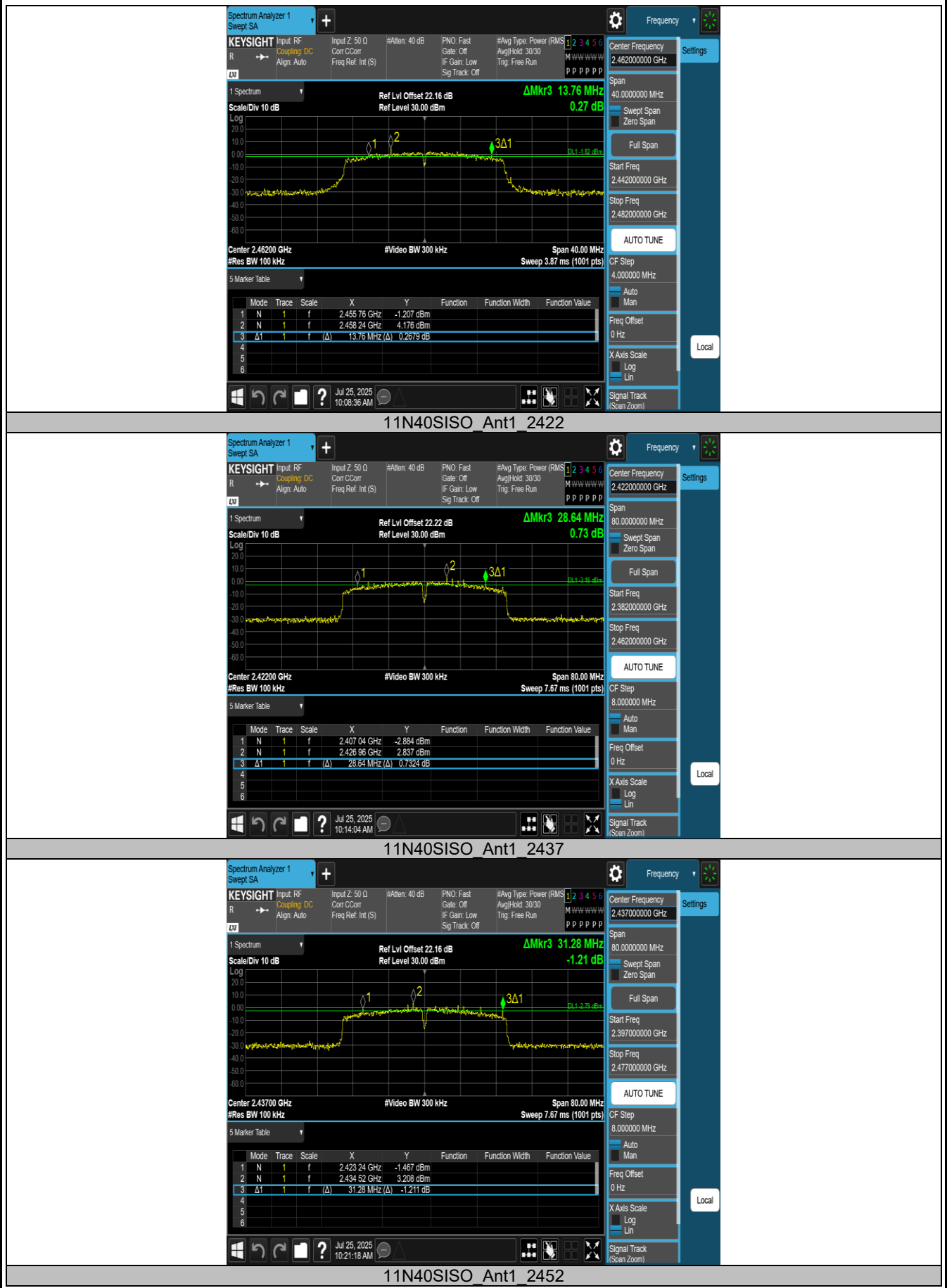
11N20SISO Ant1 2412



11N20SISO Ant1 2437



11N20SISO Ant1 2462





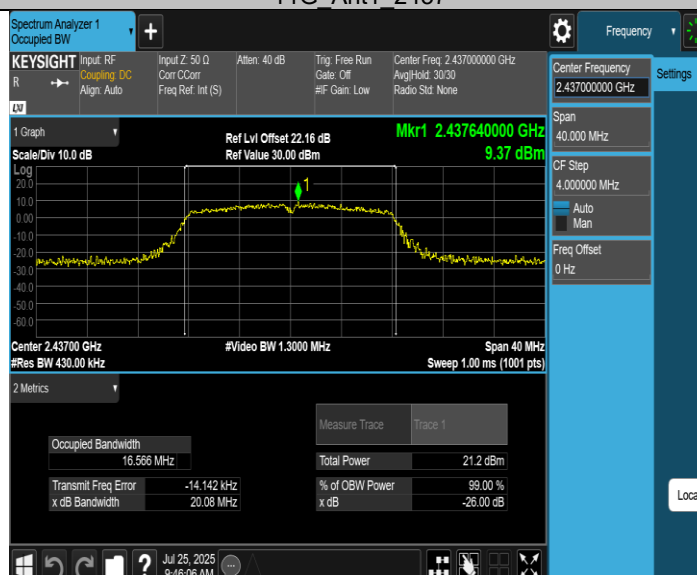
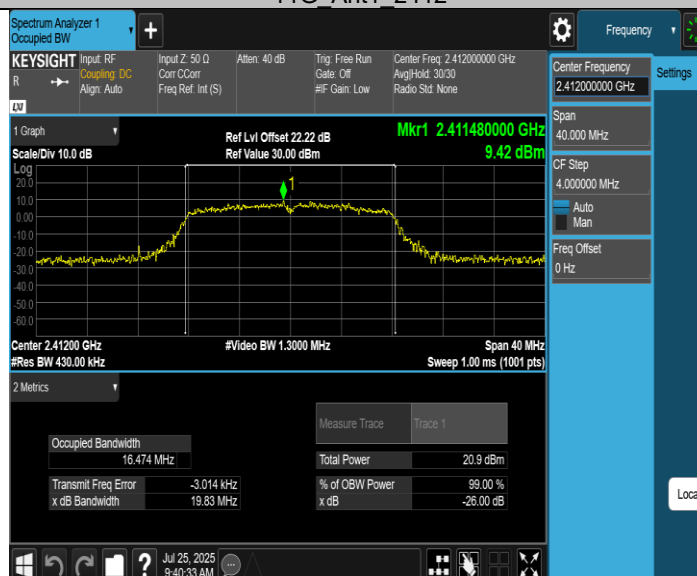
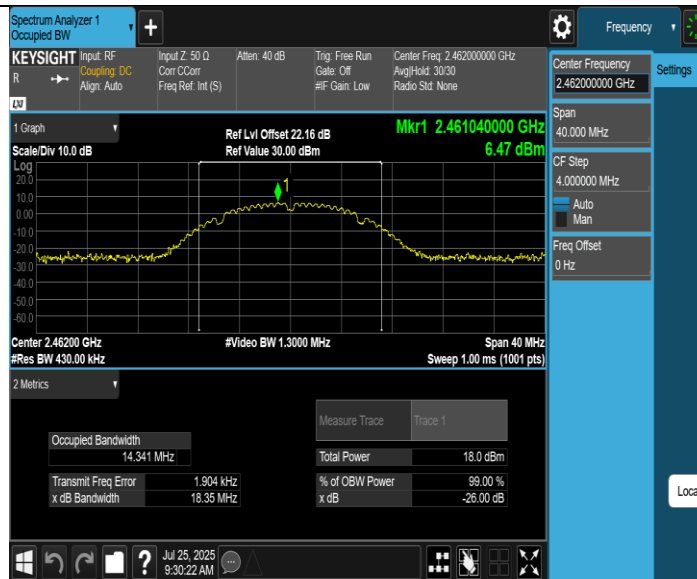
Appendix A.2: Test Results of 99% Bandwidth

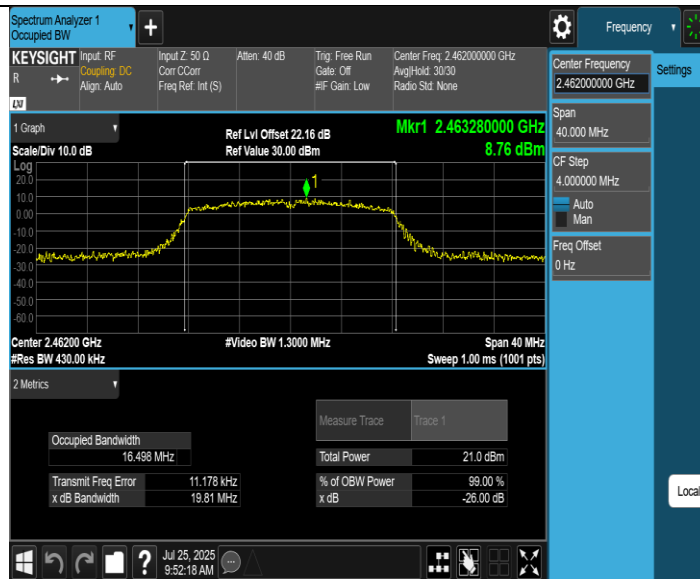
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.262	2404.8840	2419.1460	---	PASS
		2437	14.443	2429.7598	2444.2028	---	PASS
		2462	14.341	2454.8314	2469.1724	---	PASS
11G	Ant1	2412	16.474	2403.7600	2420.2340	---	PASS
		2437	16.566	2428.7029	2445.2689	---	PASS
		2462	16.498	2453.7622	2470.2602	---	PASS
11N20SISO	Ant1	2412	17.556	2403.2358	2420.7918	---	PASS
		2437	17.556	2428.2113	2445.7673	---	PASS
		2462	17.578	2453.2147	2470.7927	---	PASS
11N40SISO	Ant1	2422	35.554	2404.2720	2439.8260	---	PASS
		2437	35.623	2419.2295	2454.8525	---	PASS
		2452	35.645	2434.2114	2469.8564	---	PASS

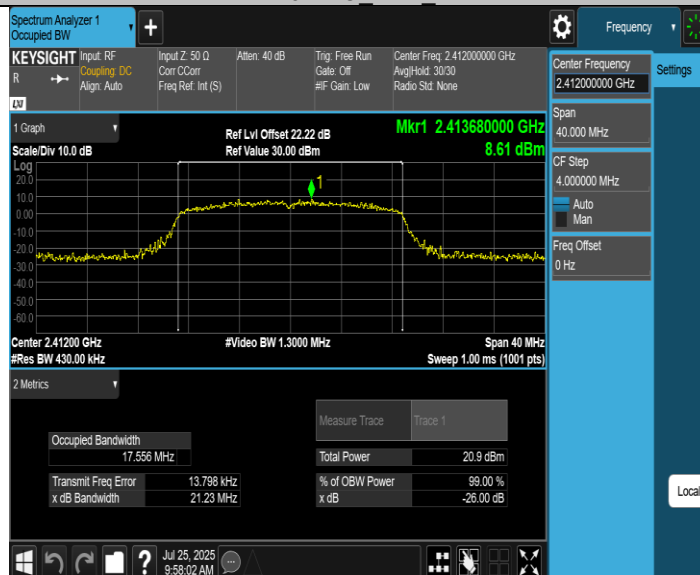
Test Graphs



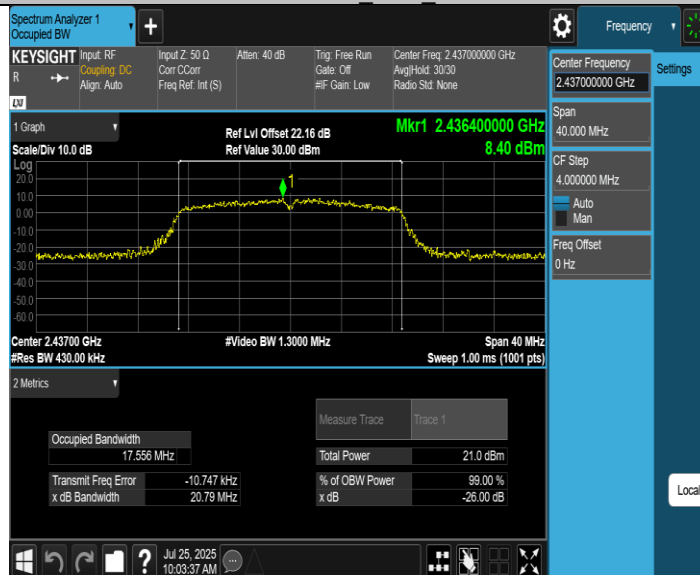




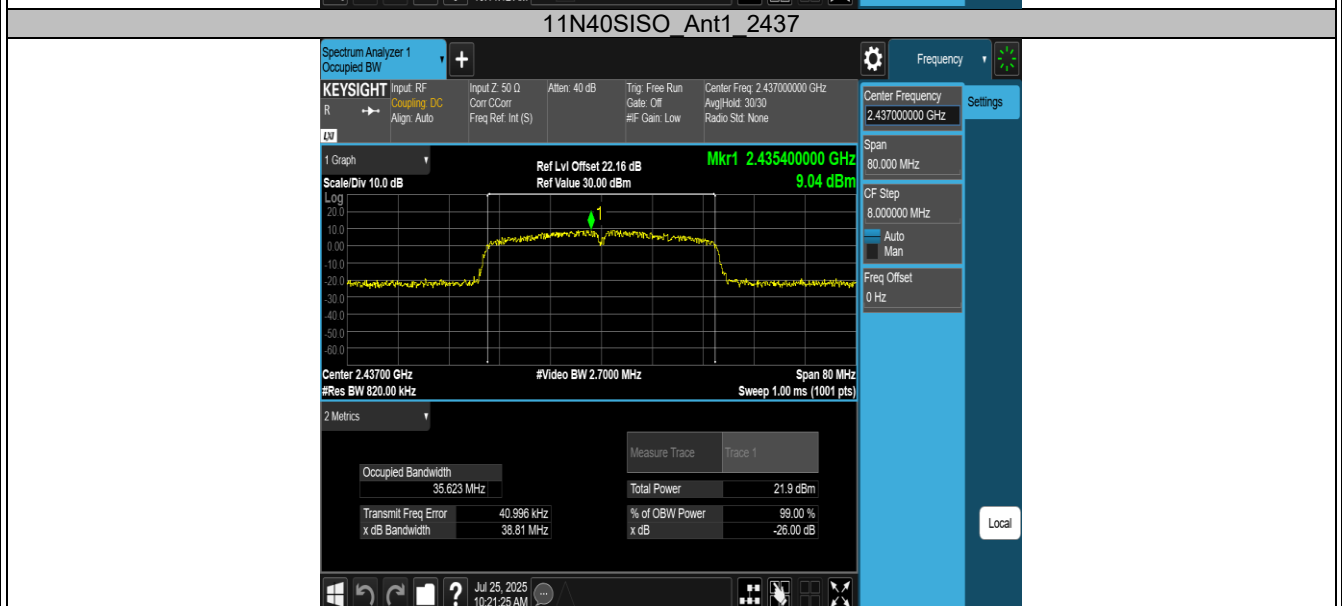
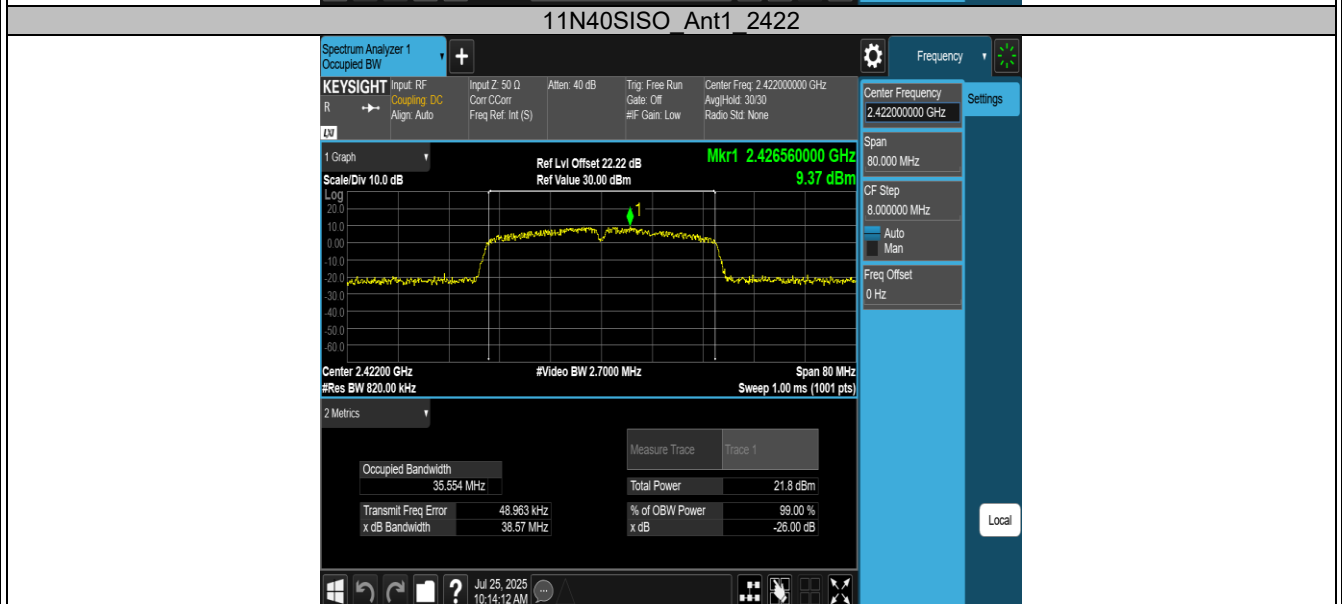
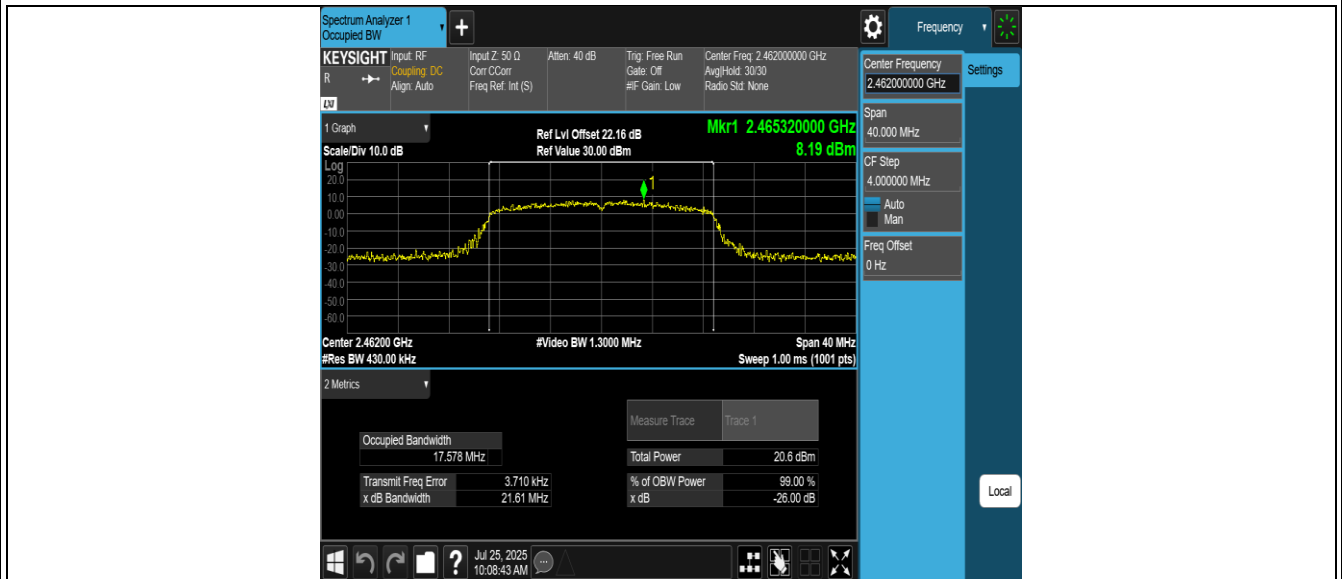
11N20SISO Ant1 2412

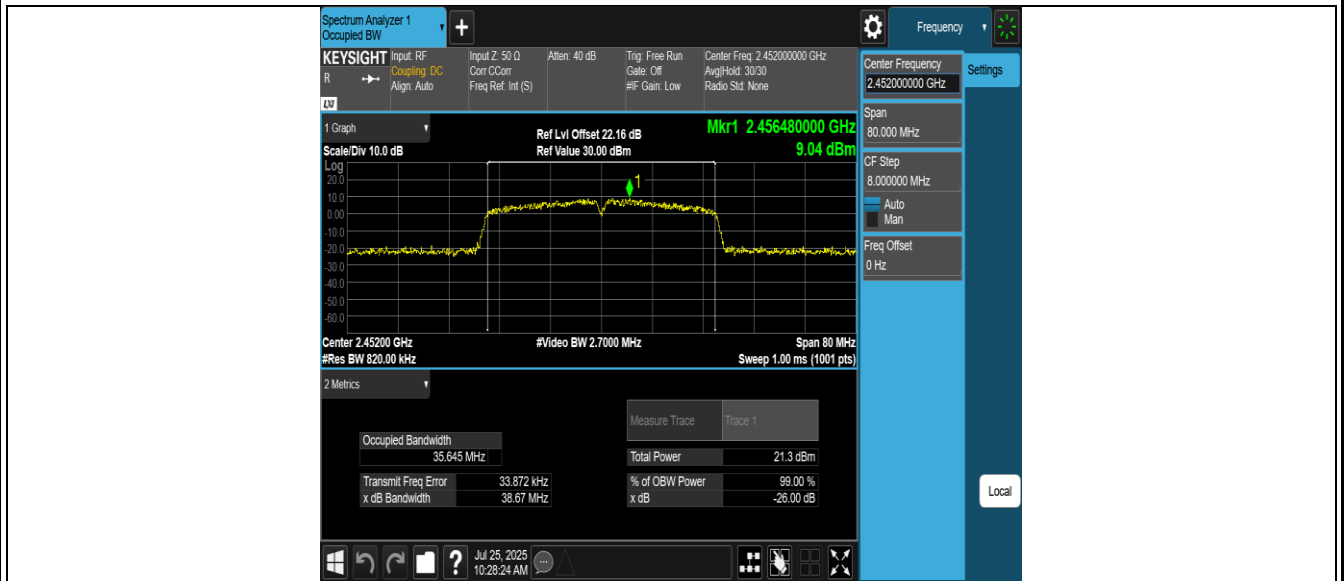


11N20SISO Ant1 2437



11N20SISO Ant1 2462





Appendix A.3: Test Results of Conducted Power Spectral Density

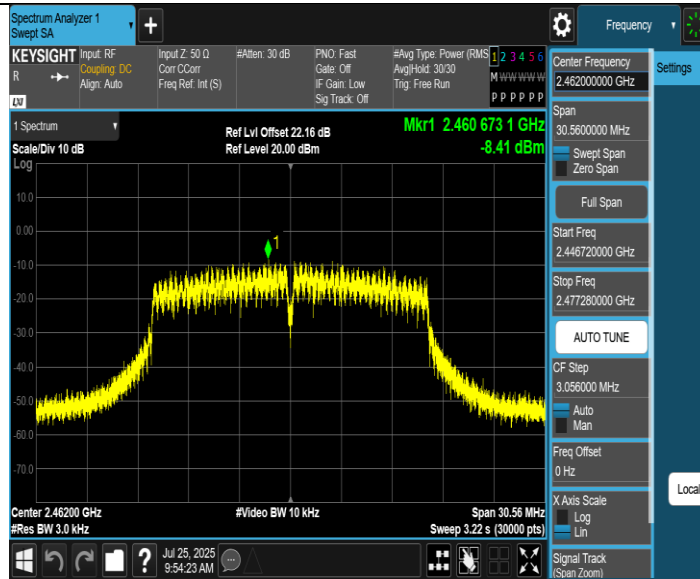
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-5.23	≤8.00	PASS
		2437	-5.49	≤8.00	PASS
		2462	-5.61	≤8.00	PASS
11G	Ant1	2412	-8.38	≤8.00	PASS
		2437	-8.17	≤8.00	PASS
		2462	-8.41	≤8.00	PASS
11N20SISO	Ant1	2412	-7.73	≤8.00	PASS
		2437	-7.74	≤8.00	PASS
		2462	-7.72	≤8.00	PASS
11N40SISO	Ant1	2422	-10.74	≤8.00	PASS
		2437	-10.76	≤8.00	PASS
		2452	-11.18	≤8.00	PASS

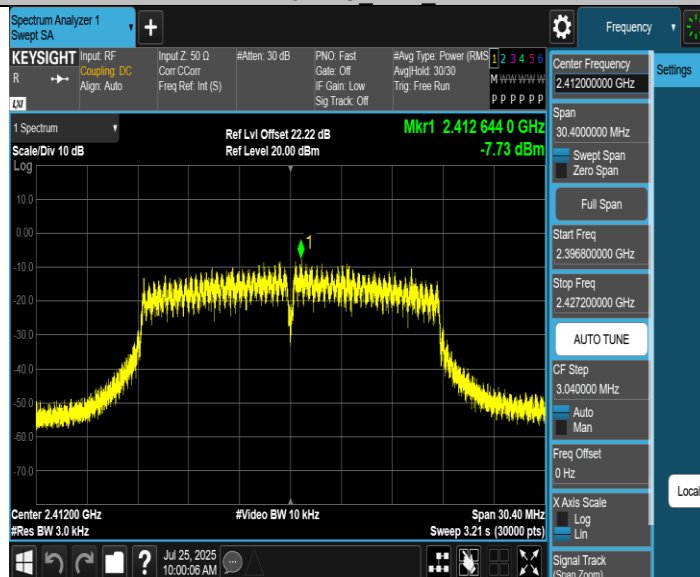
Test Graphs



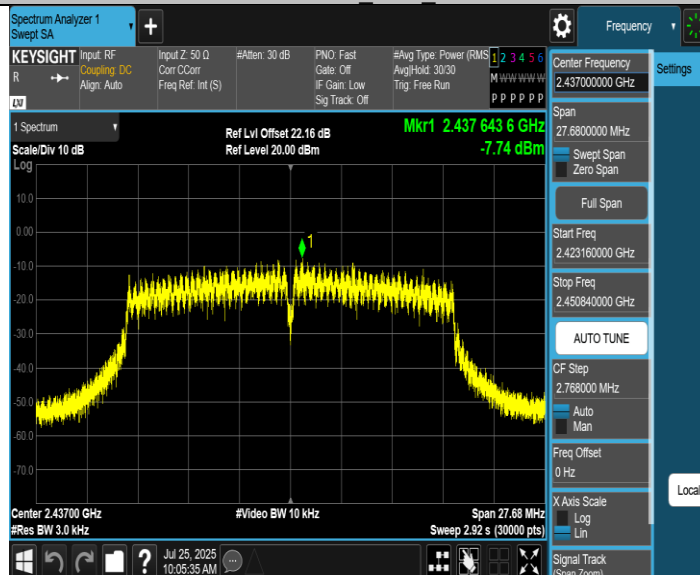




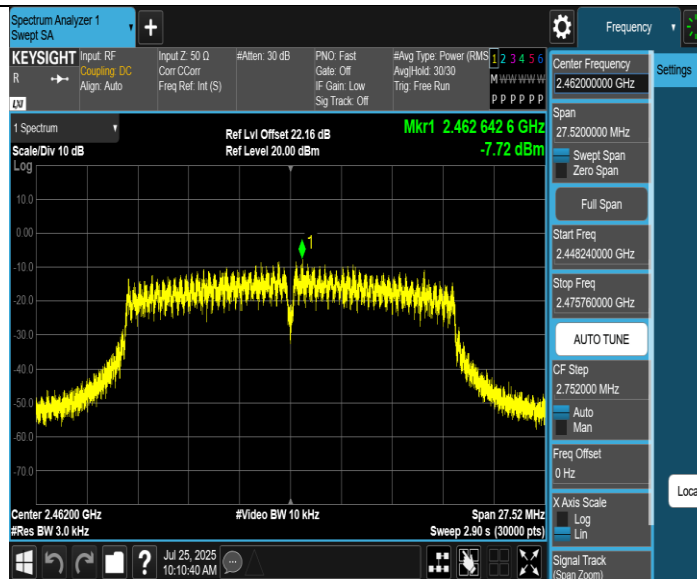
11N20SISO Ant1 2412



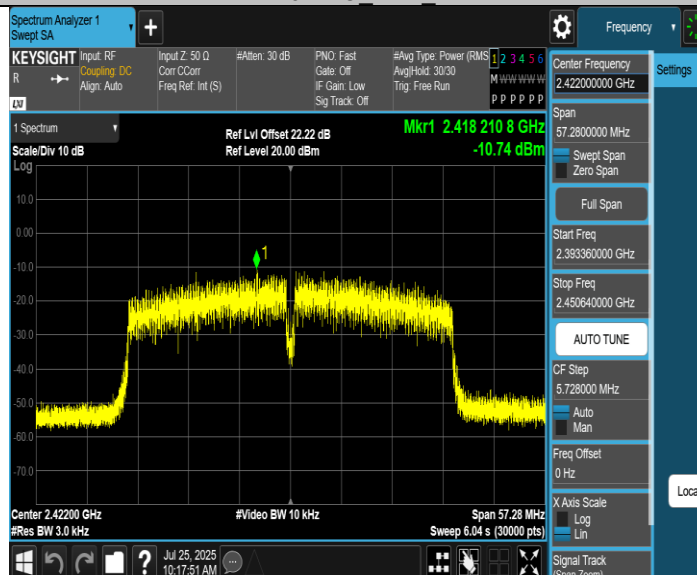
11N20SISO Ant1 2437



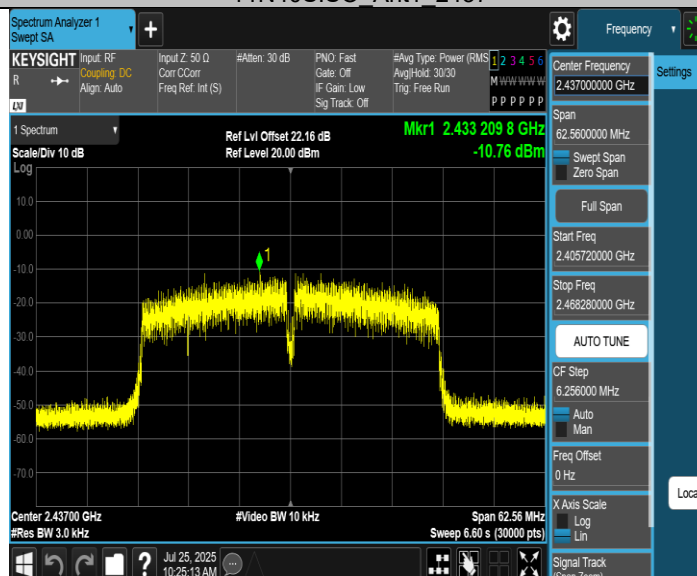
11N20SISO Ant1 2462



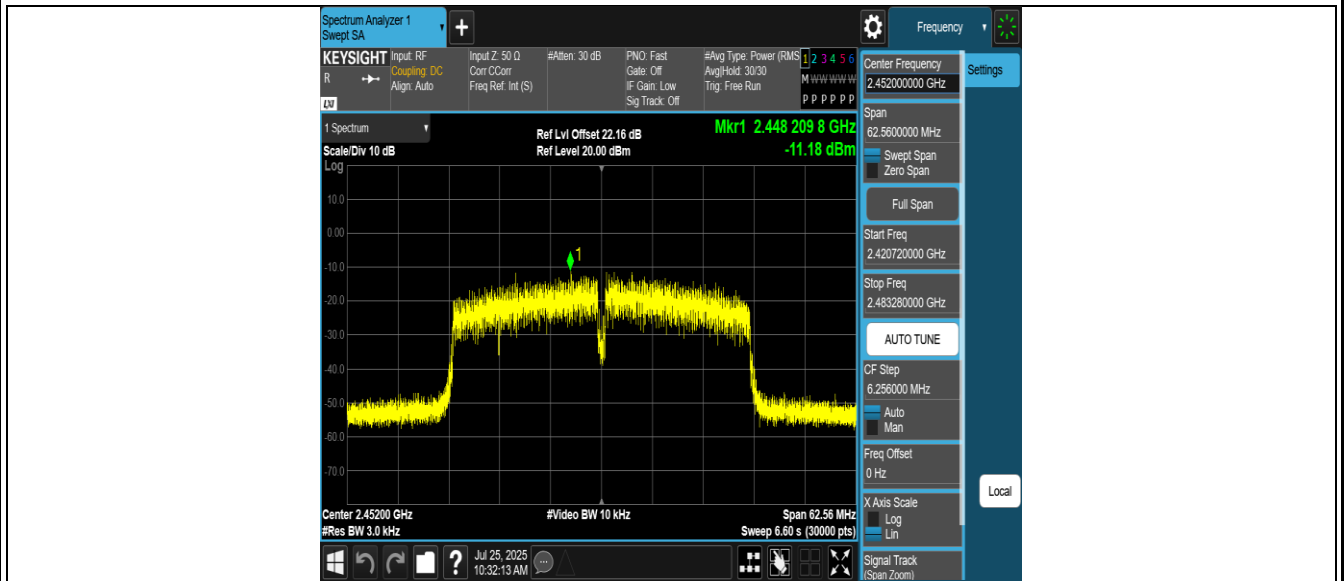
11N40SISO Ant1 2422



11N40SISO Ant1 2437



11N40SISO Ant1 2452



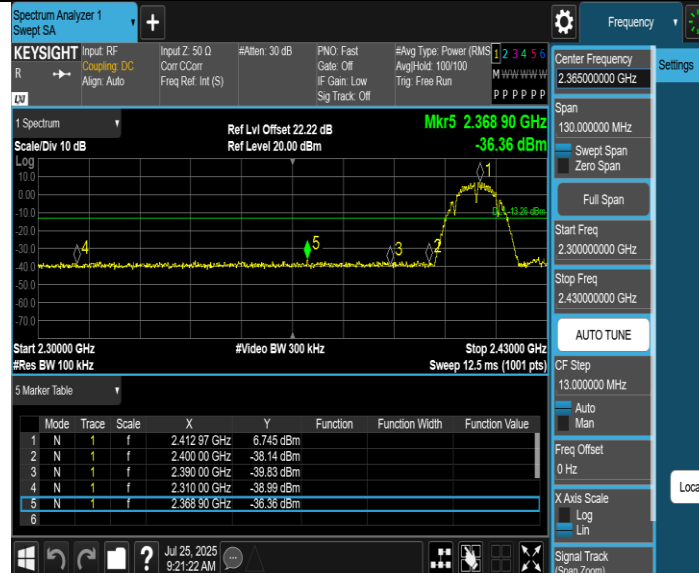
Appendix A.4: Test Results of Band Edge Measurements

Test Result

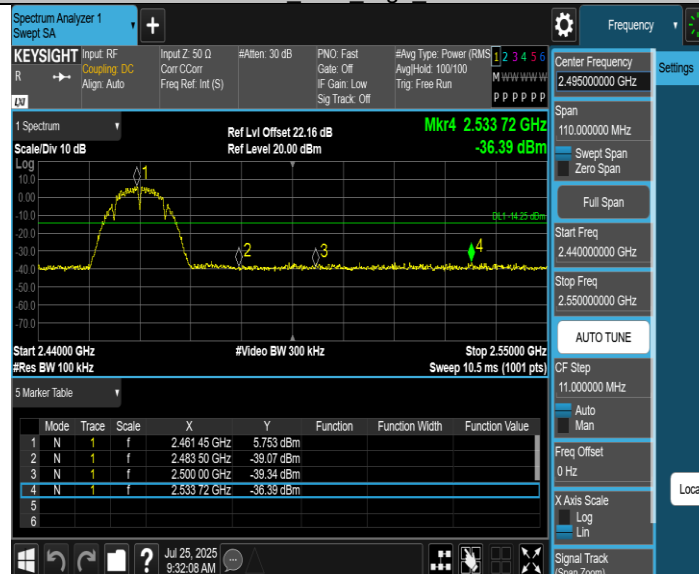
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.75	-36.36	≤-13.26	PASS
		High	2462	5.75	-36.39	≤-14.25	PASS
11G	Ant1	Low	2412	5.23	-33.05	≤-14.77	PASS
		High	2462	4.89	-35.85	≤-15.11	PASS
11N20SISO	Ant1	Low	2412	6.85	-31.84	≤-13.15	PASS
		High	2462	5.46	-36.58	≤-14.54	PASS
11N40SISO	Ant1	Low	2422	3.77	-32.27	≤-16.23	PASS
		High	2452	3.29	-34.3	≤-16.71	PASS

Test Graphs

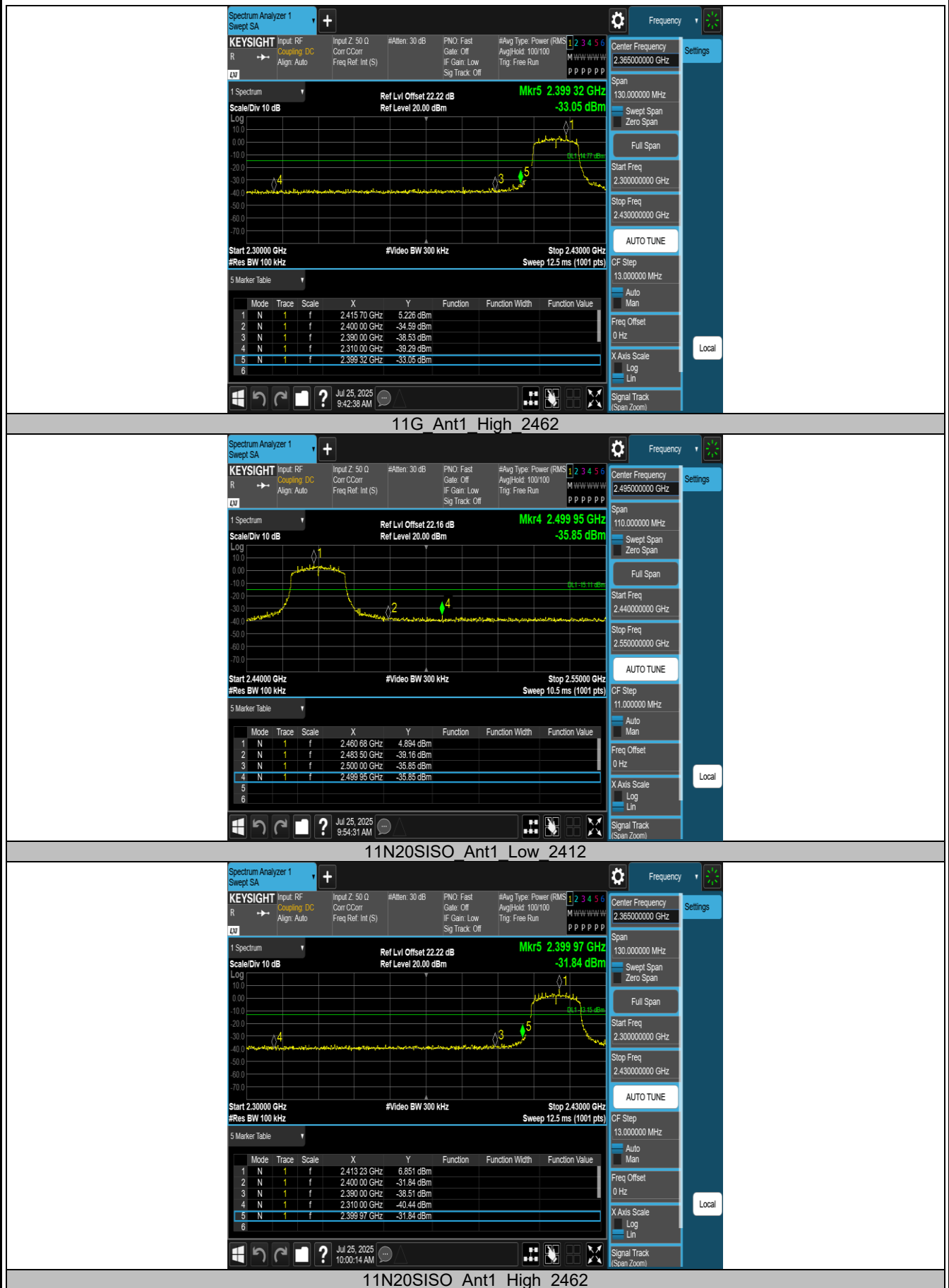
11B Ant1 Low 2412

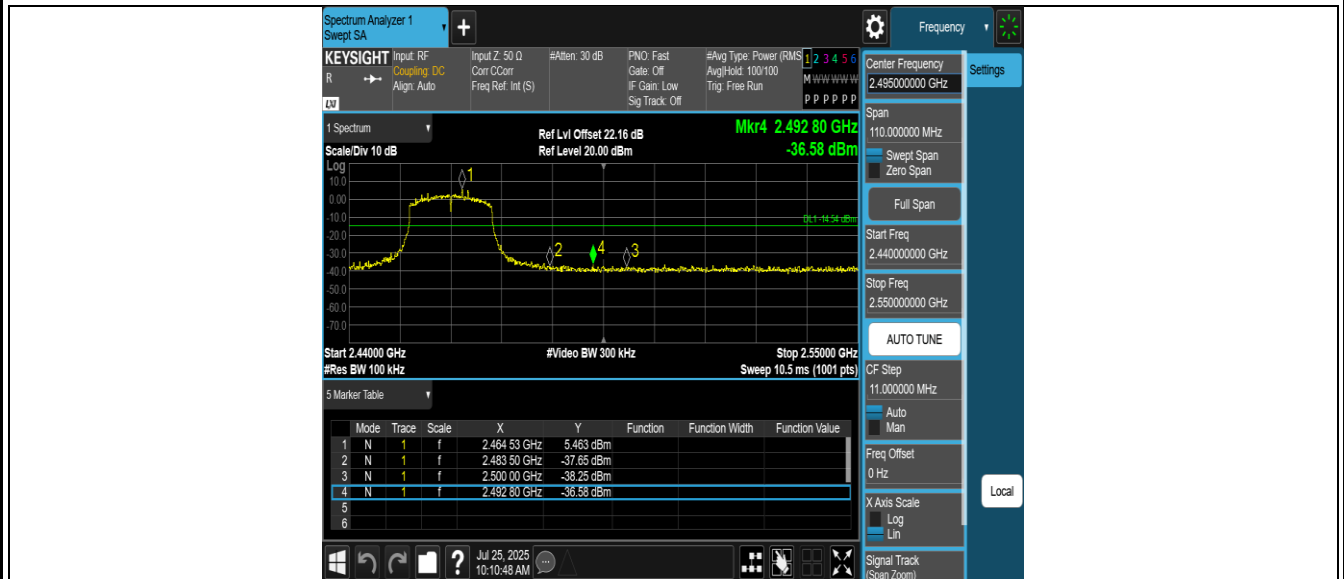


11B Ant1 High 2462



11G Ant1 Low 2412





11N40SISO Ant1 Low 2422



11N40SISO Ant1 High 2452



Appendix A.5: Test Results of Conducted Spurious Emissions

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	6.65	6.65	---	PASS
			30~1000	6.65	-37.59	≤-13.35	PASS
			1000~26500	6.65	-28.28	≤-13.35	PASS
		2437	Reference	5.26	5.26	---	PASS
			30~1000	5.26	-37.47	≤-14.74	PASS
			1000~26500	5.26	-28.34	≤-14.74	PASS
		2462	Reference	4.59	4.59	---	PASS
			30~1000	4.59	-36.98	≤-15.41	PASS
			1000~26500	4.59	-28.36	≤-15.41	PASS
11G	Ant1	2412	Reference	2.95	2.95	---	PASS
			30~1000	2.95	-37.69	≤-17.05	PASS
			1000~26500	2.95	-28.65	≤-17.05	PASS
		2437	Reference	5.08	5.08	---	PASS
			30~1000	5.08	-37.58	≤-14.92	PASS
			1000~26500	5.08	-28.75	≤-14.92	PASS
		2462	Reference	3.85	3.85	---	PASS
			30~1000	3.85	-37.03	≤-16.15	PASS
			1000~26500	3.85	-28.37	≤-16.15	PASS
11N20SISO	Ant1	2412	Reference	3.95	3.95	---	PASS
			30~1000	3.95	-37.26	≤-16.05	PASS
			1000~26500	3.95	-28.54	≤-16.05	PASS
		2437	Reference	3.57	3.57	---	PASS
			30~1000	3.57	-37.57	≤-16.43	PASS
			1000~26500	3.57	-28.34	≤-16.43	PASS
		2462	Reference	3.76	3.76	---	PASS
			30~1000	3.76	-38	≤-16.24	PASS
			1000~26500	3.76	-27.74	≤-16.24	PASS
11N40SISO	Ant1	2422	Reference	0.33	0.33	---	PASS
			30~1000	0.33	-37.78	≤-19.67	PASS
			1000~26500	0.33	-28.54	≤-19.67	PASS
		2437	Reference	0.12	0.12	---	PASS
			30~1000	0.12	-37.8	≤-19.88	PASS
			1000~26500	0.12	-28.52	≤-19.88	PASS
		2452	Reference	0.76	0.76	---	PASS
			30~1000	0.76	-37.85	≤-19.24	PASS
			1000~26500	0.76	-28.1	≤-19.24	PASS

Test Graphs

