

Appendix A: Test Results of 2.4GHz Wi-Fi

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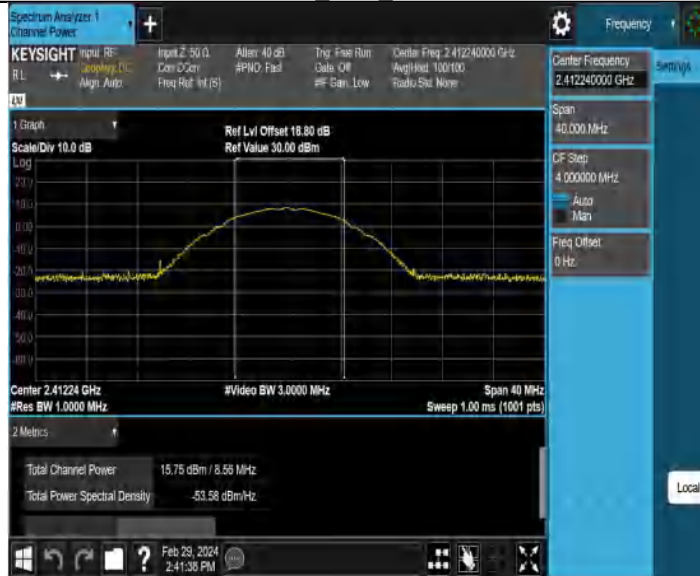
Appendix A.1: Test Results of 5.1.2 Maximum Conducted Output Power

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.18	≤8.00	PASS
		2437	-8.27	≤8.00	PASS
		2462	-9.55	≤8.00	PASS
11G	Ant1	2412	-9.95	≤8.00	PASS
		2437	-9.35	≤8.00	PASS
		2462	-11.97	≤8.00	PASS
11N20SISO	Ant1	2412	-9.24	≤8.00	PASS
		2437	-11.85	≤8.00	PASS
		2462	-11.81	≤8.00	PASS
11N40SISO	Ant1	2422	-12.96	≤8.00	PASS
		2437	-13.35	≤8.00	PASS
		2452	-14.91	≤8.00	PASS

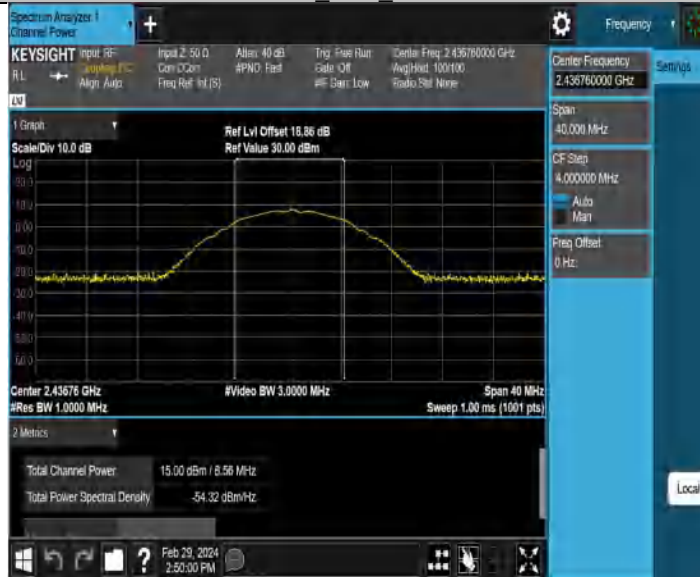
Test Mode	Data Rate	Test Channel (MHz)	Measured Peak Power		Limit (W)
			(dBm)	(W)	
802.11b	1 Mbps	2412	15.75	0.0376	< 1.0
		2437	15.00	0.0316	
		2462	14.36	0.0273	
802.11g	6 Mbps	2412	21.75	0.1496	
		2437	20.89	0.1227	
		2462	20.11	0.1026	
802.11n (HT20)	MCS0	2412	21.56	0.1432	
		2437	20.74	0.1186	
		2462	20.00	0.1000	
802.11n (HT40)	MCS0	2422	21.56	0.1432	
		2437	20.89	0.1227	
		2452	20.41	0.1099	
Maximum Measured Value			21.75	0.1496	

Max. e.i.r.p.=21.75dBm+3.93dBi=25.68dBm, which is less than 36dBm=4W.

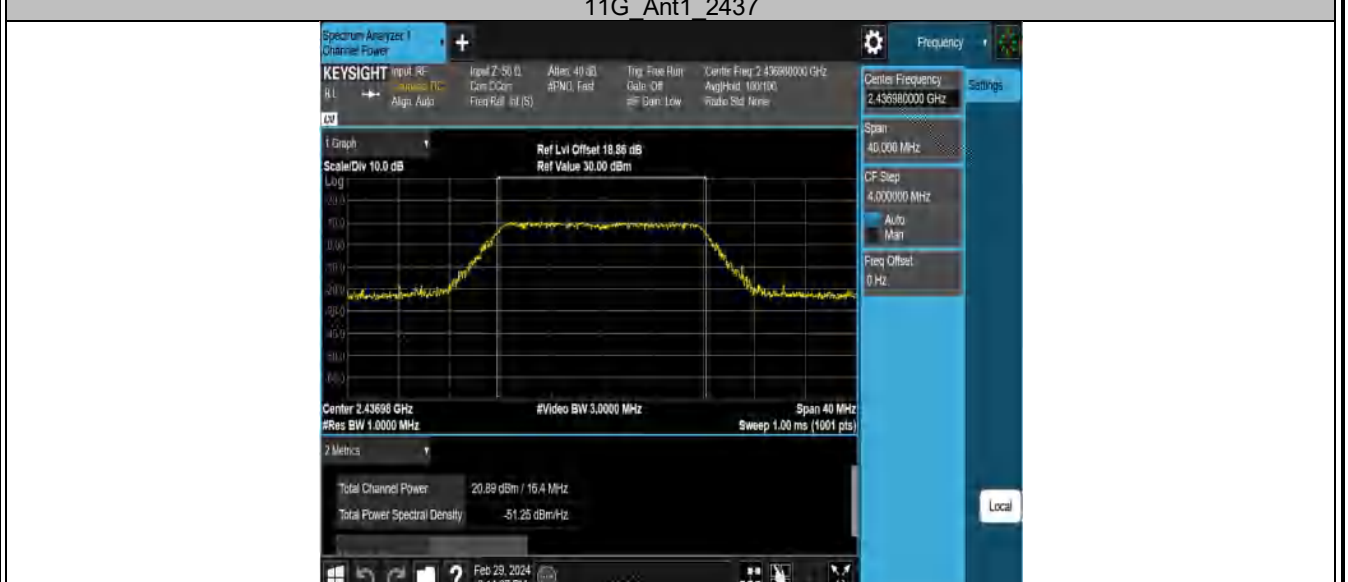
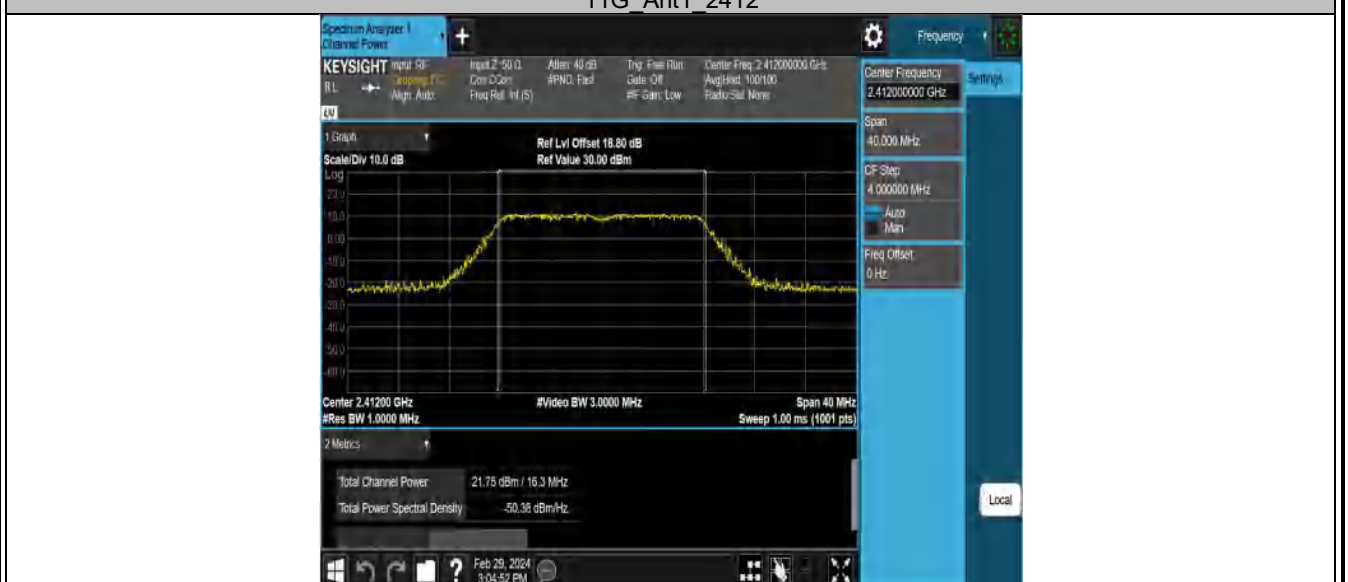
11B_Ant1_2412

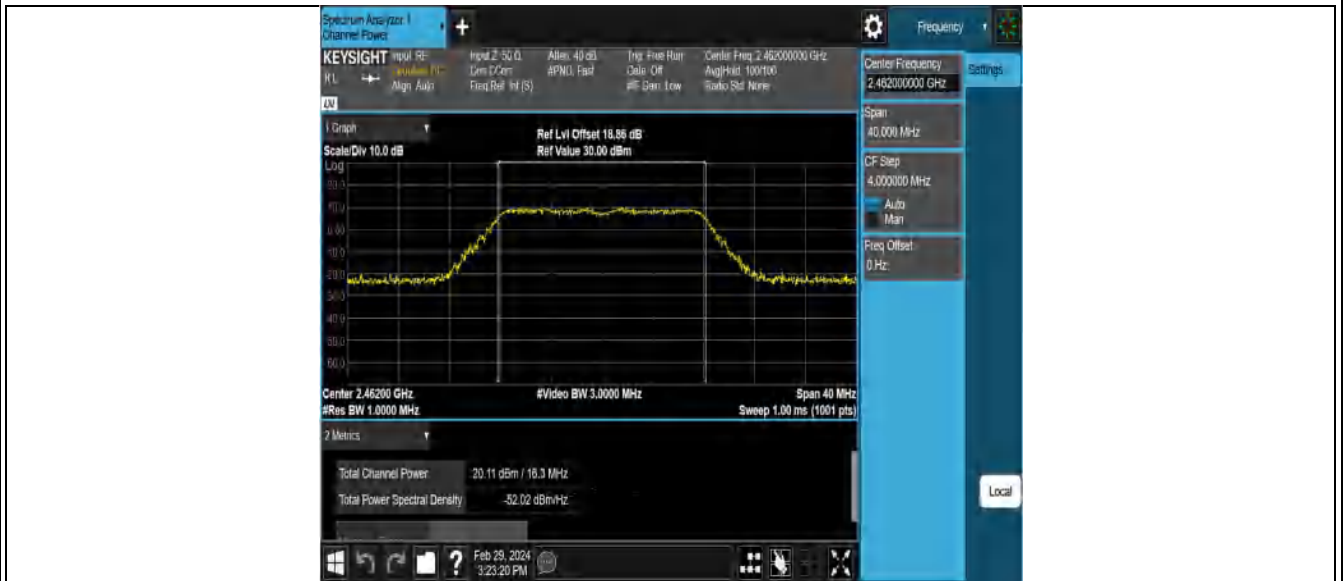


11B_Ant1_2437

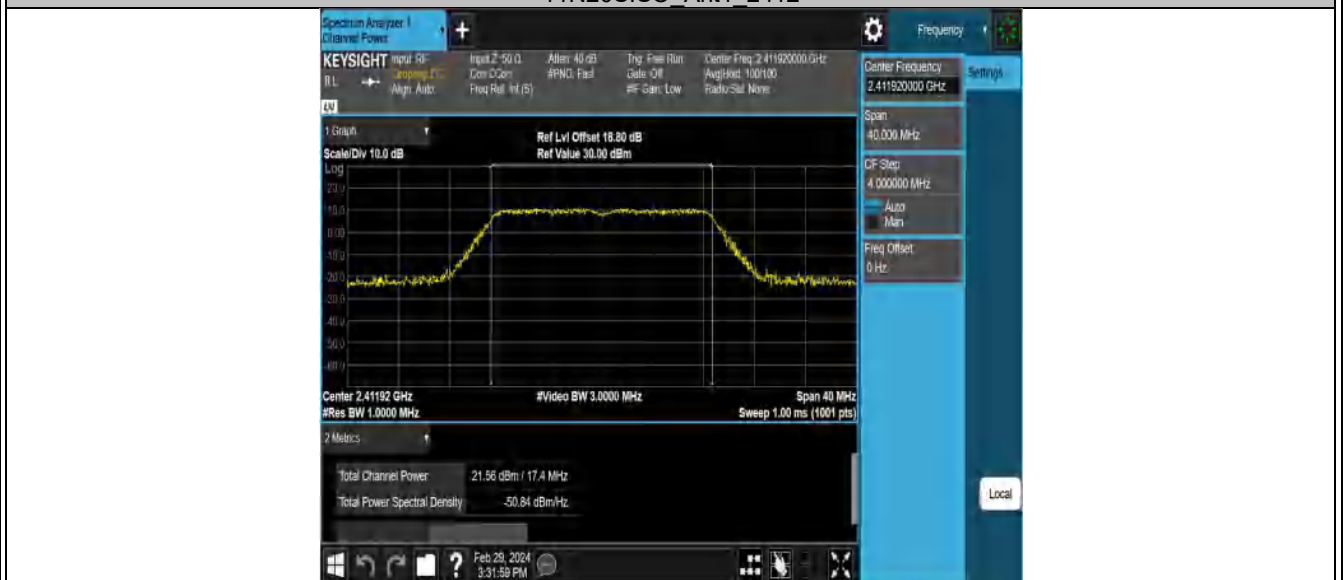


11B_Ant1_2462

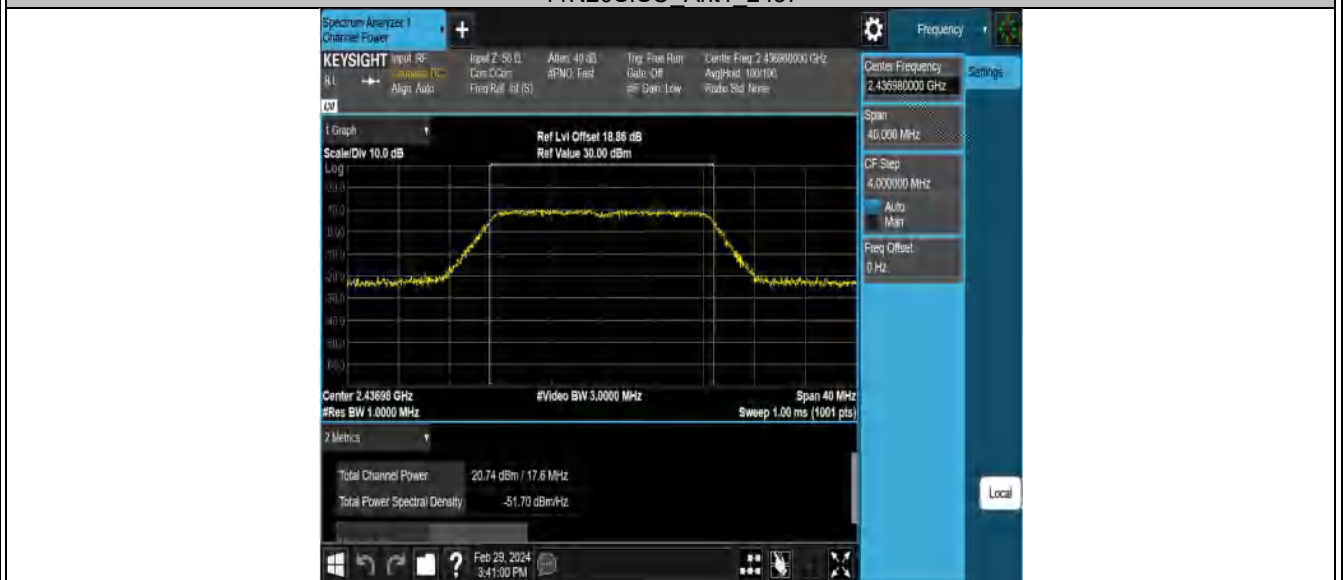




11N20SISO Ant1 2412



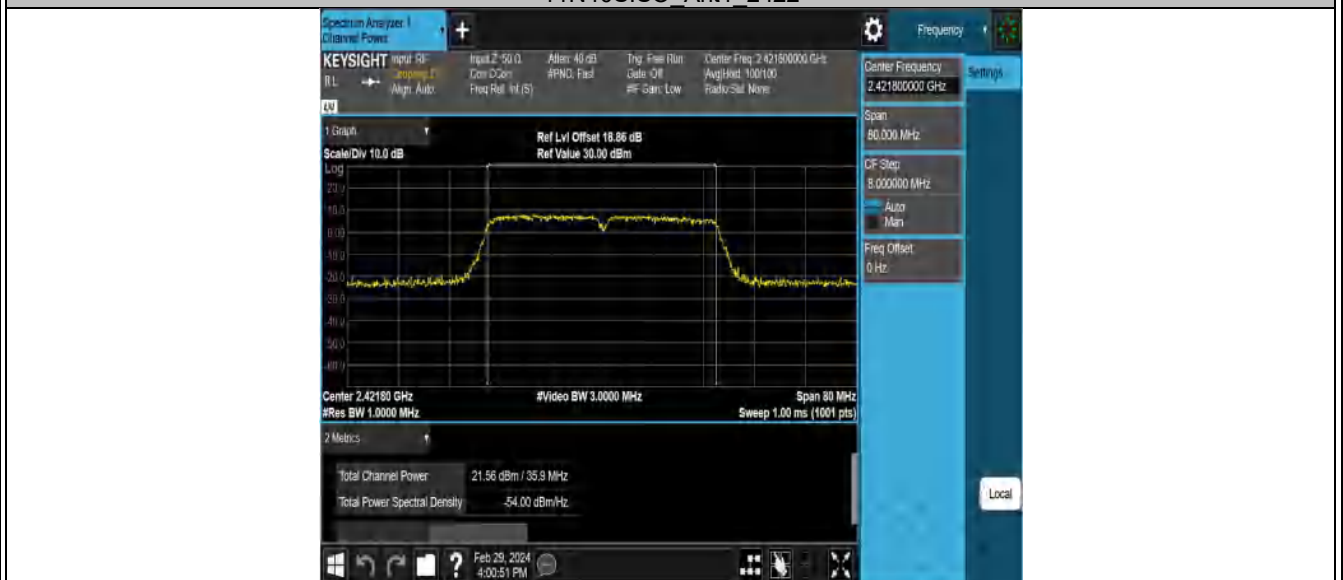
11N20SISO Ant1 2437



11N20SISO Ant1 2462



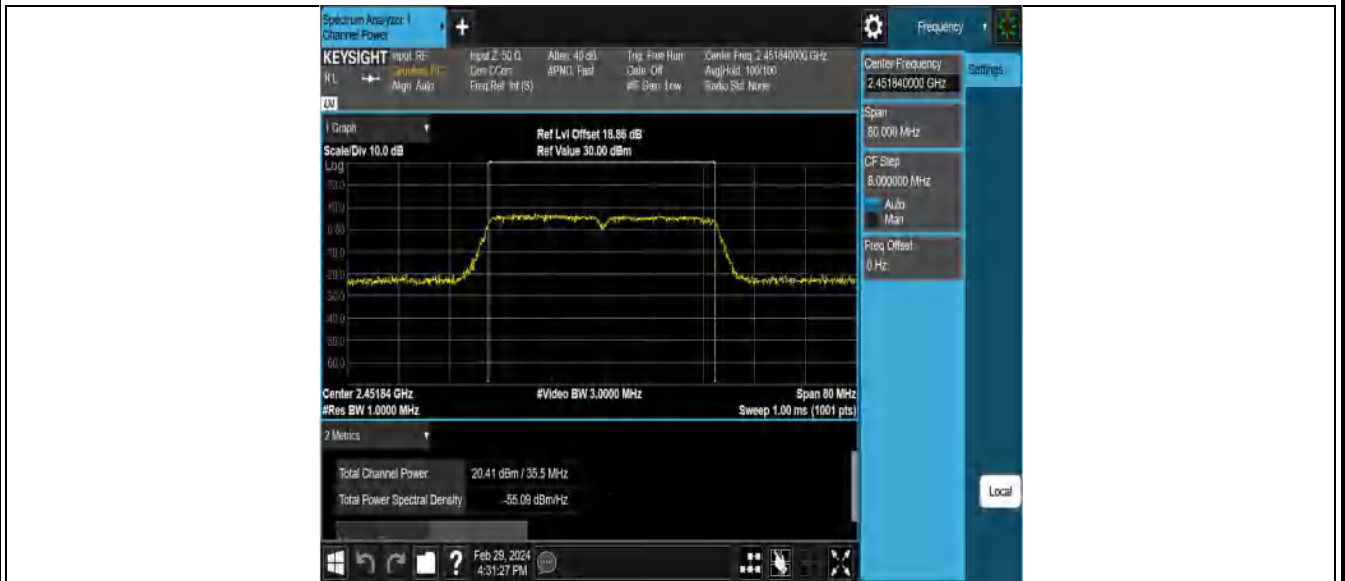
11N40SISO Ant1 2422



11N40SISO Ant1 2437



11N40SISO Ant1 2452



Appendix A.2: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.18	≤8.00	PASS
		2437	-8.27	≤8.00	PASS
		2462	-9.55	≤8.00	PASS
11G	Ant1	2412	-9.95	≤8.00	PASS
		2437	-9.35	≤8.00	PASS
		2462	-11.97	≤8.00	PASS
11N20SISO	Ant1	2412	-9.24	≤8.00	PASS
		2437	-11.85	≤8.00	PASS
		2462	-11.81	≤8.00	PASS
11N40SISO	Ant1	2422	-12.96	≤8.00	PASS
		2437	-13.35	≤8.00	PASS
		2452	-14.91	≤8.00	PASS

11B Ant1 2412



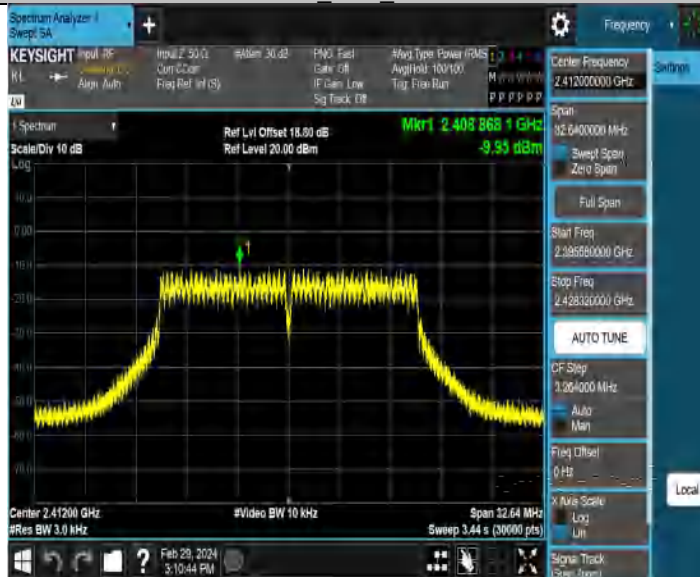
11B Ant1 2437



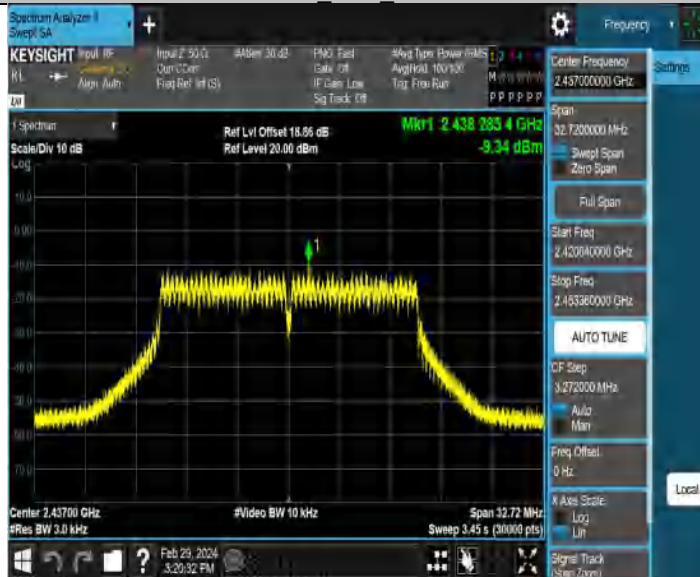
11B Ant1 2462



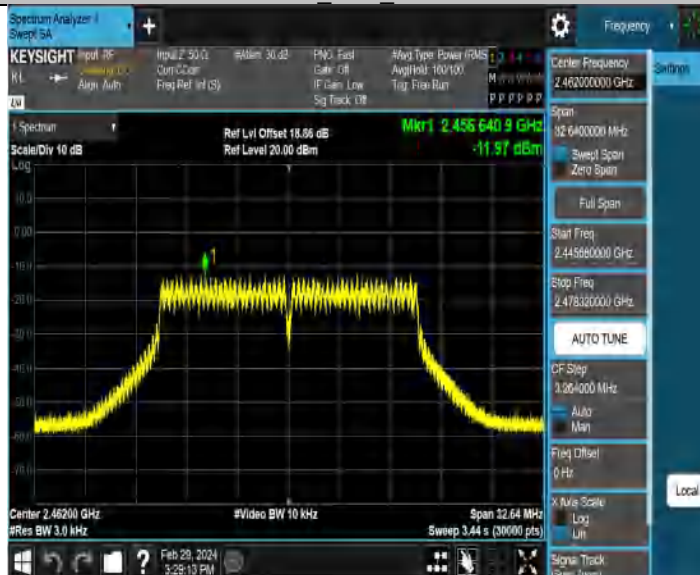
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N40SISO Ant1 2422



11N40SISO Ant1 2437



11N40SISO Ant1 2452



Appendix A.3: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.560	2407.960	2416.520	0.5	PASS
		2437	8.560	2432.480	2441.040	0.5	PASS
		2462	8.560	2457.920	2466.480	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.360	2403.240	2420.600	0.5	PASS
		2437	17.560	2428.200	2445.760	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS
11N40SISO	Ant1	2422	35.920	2403.840	2439.760	0.5	PASS
		2437	35.520	2419.080	2454.600	0.5	PASS
		2452	35.520	2434.080	2469.600	0.5	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 A.4: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.101	2404.9365	2419.0375	---	PASS
		2437	14.237	2429.8438	2444.0808	---	PASS
		2462	14.354	2454.7996	2469.1536	---	PASS
11G	Ant1	2412	16.954	2403.4736	2420.4276	---	PASS
		2437	17.269	2428.3709	2445.6399	---	PASS
		2462	17.183	2453.3884	2470.5714	---	PASS
11N20SISO	Ant1	2412	18.080	2402.9318	2421.0118	---	PASS
		2437	18.160	2427.8822	2446.0422	---	PASS
		2462	18.202	2452.8772	2471.0792	---	PASS
11N40SISO	Ant1	2422	36.471	2403.7105	2440.1815	---	PASS
		2437	36.608	2418.6441	2455.2521	---	PASS
		2452	36.507	2433.6825	2470.1895	---	PASS

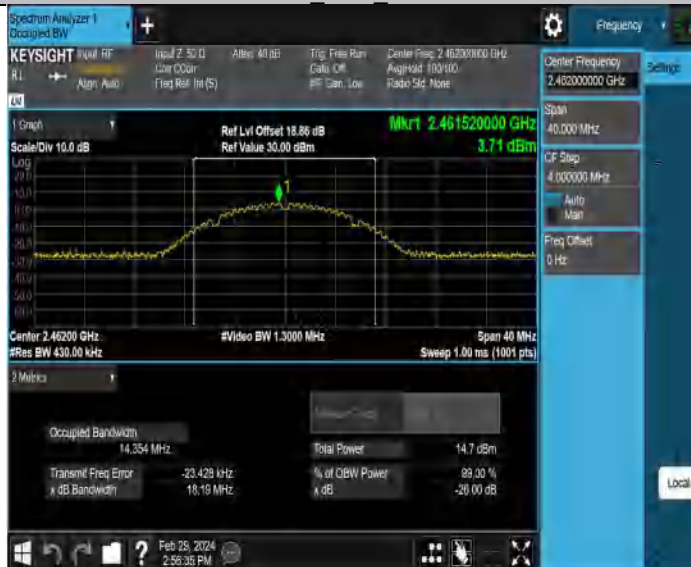
11B Ant1 2412



11B Ant1 2437



11B Ant1 2462



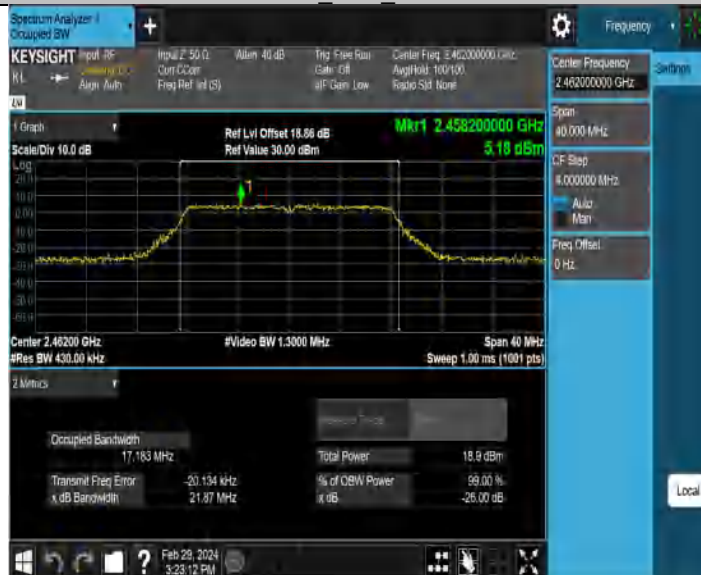
11G_Ant1_2412



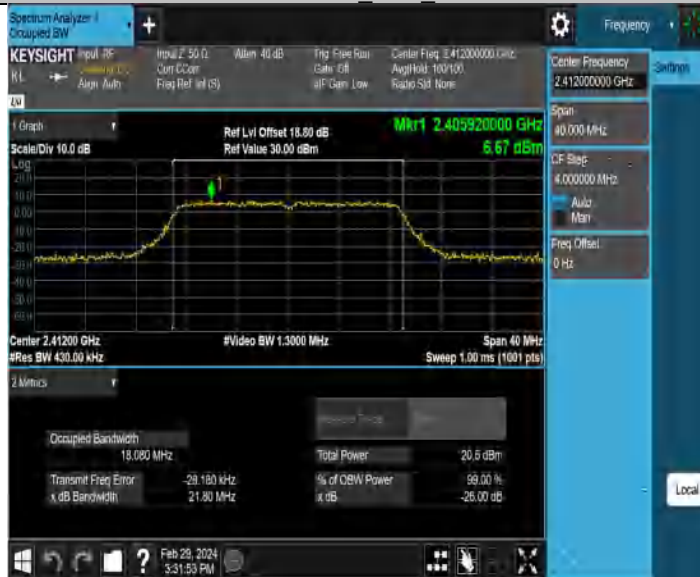
11G_Ant1_2437



11G_Ant1_2462



11N20SISO Ant1 2412



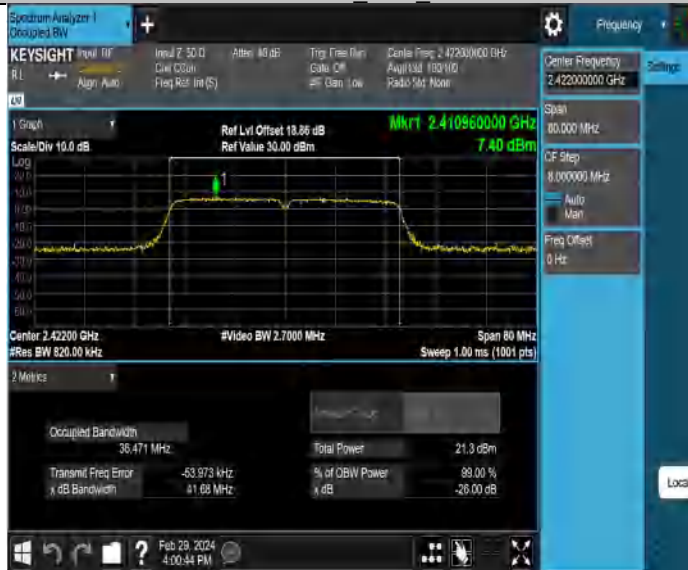
11N20SISO Ant1 2437



11N20SISO Ant1 2462



11N40SISO Ant1 2422



11N40SISO Ant1 2437



11N40SISO Ant1 2452



Appendix A.5: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Band Edge

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.66	-39.48	≤-15.34	PASS
		High	2462	3.37	-39.56	≤-16.63	PASS
11G	Ant1	Low	2412	3.08	-33.17	≤-16.93	PASS
		High	2462	1.70	-39.57	≤-18.3	PASS
11N20SISO	Ant1	Low	2412	3.07	-32.68	≤-16.93	PASS
		High	2462	1.75	-38.67	≤-18.25	PASS
11N40SISO	Ant1	Low	2422	0.22	-34.36	≤-19.78	PASS
		High	2452	-0.71	-39.18	≤-20.71	PASS

11B Ant1 Low 2412



11B Ant1 High 2462



11G Ant1 Low 2412



11G Ant1 High 2462



11N20SISO Ant1 Low 2412



11N20SISO Ant1 High 2462

