

Appendix A: Test Results of 2.4GHz Wi-Fi

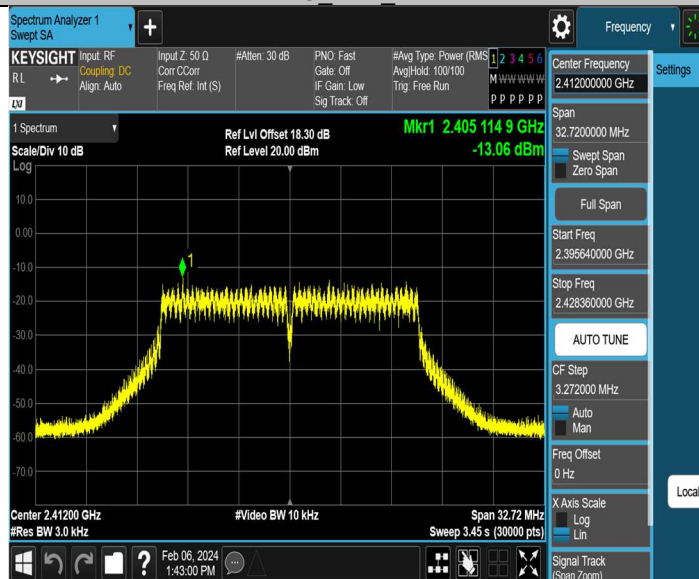
APPENDIX A: TEST RESULTS OF 2.4GHZ WI-FI.....	1
APPENDIX A.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY	2
APPENDIX A.2: TEST RESULTS OF 6dB BANDWIDTH	7
APPENDIX A.3: TEST RESULTS OF 99% BANDWIDTH	12
APPENDIX A.4: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH	17
<i>Band Edge</i>	17
<i>Conducted Spurious Emission</i>	21
APPENDIX A.5: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	34
30MHz - 1GHz (Worst case)	34
1GHz - 18GHz	36
APPENDIX A.6: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	60
<i>Wi-Fi 802.11 b mode</i>	60
<i>Wi-Fi 802.11 g mode</i>	64
<i>Wi-Fi 802.11 n(HT20) mode</i>	68
<i>Wi-Fi 802.11 n(HT40) mode</i>	72
APPENDIX A.7: TEST RESULTS OF CONDUCTED EMISSION	76

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

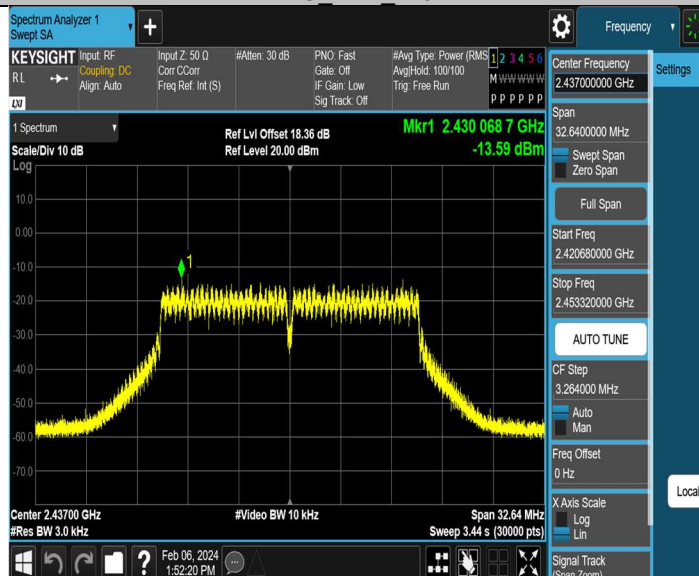
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.35	≤8.00	PASS
		2437	-8.29	≤8.00	PASS
		2462	-8.35	≤8.00	PASS
11G	Ant1	2412	-13.06	≤8.00	PASS
		2437	-13.59	≤8.00	PASS
		2462	-13.68	≤8.00	PASS
11N20SISO	Ant1	2412	-13.59	≤8.00	PASS
		2437	-14.27	≤8.00	PASS
		2462	-14.57	≤8.00	PASS
11N40SISO	Ant1	2422	-15.90	≤8.00	PASS
		2437	-15.65	≤8.00	PASS
		2452	-15.88	≤8.00	PASS



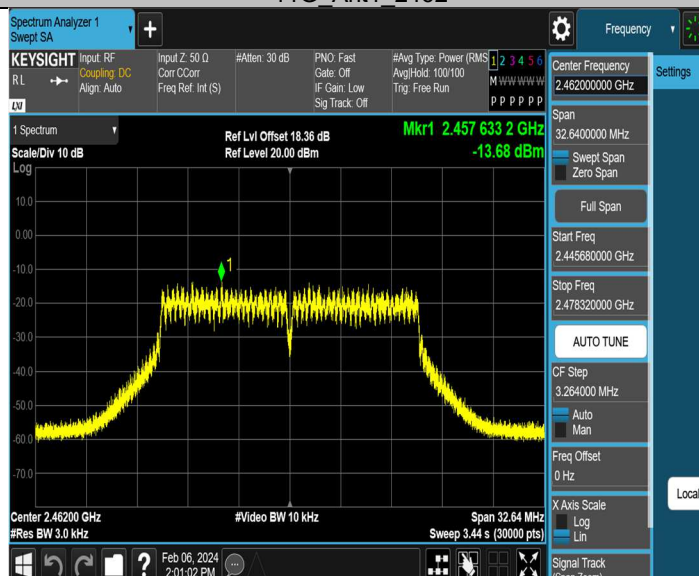
11G_Ant1_2412



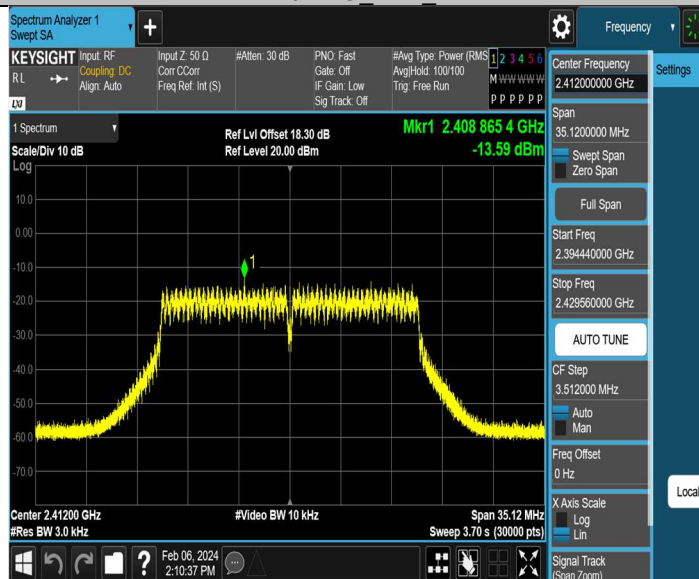
11G_Ant1_2437



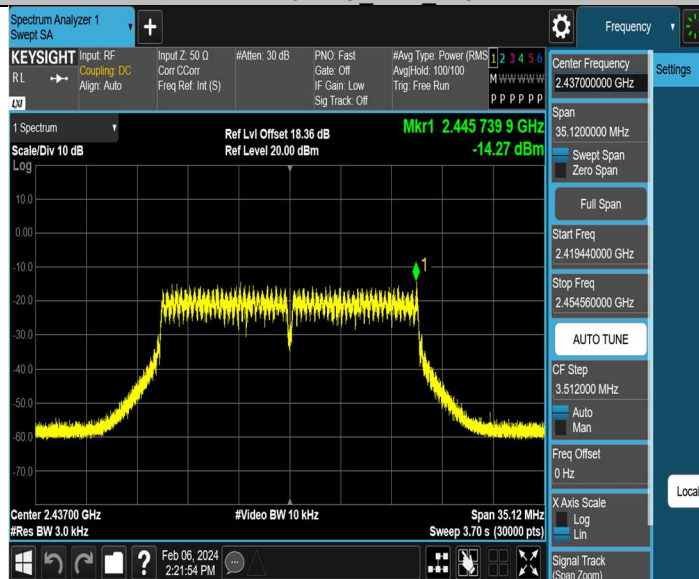
11G_Ant1_2462



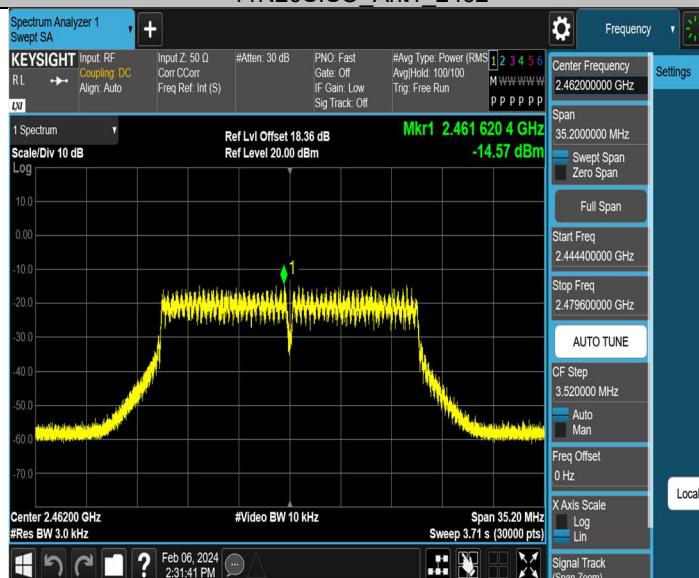
11N20SISO Ant1 2412



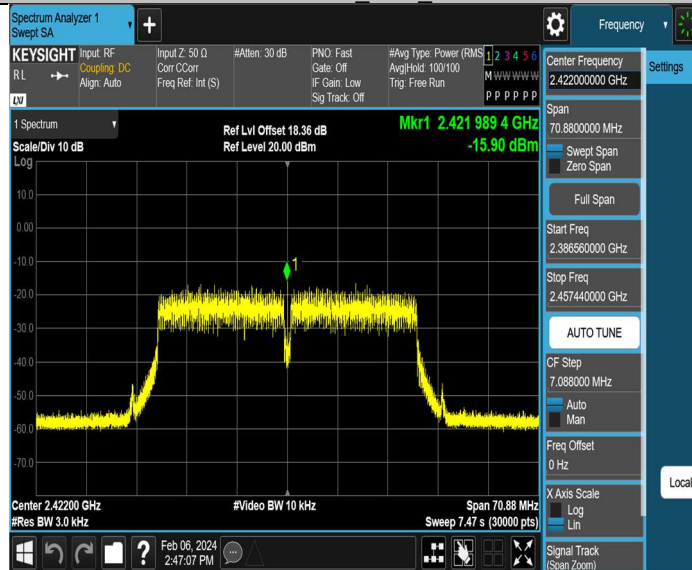
11N20SISO Ant1 2437



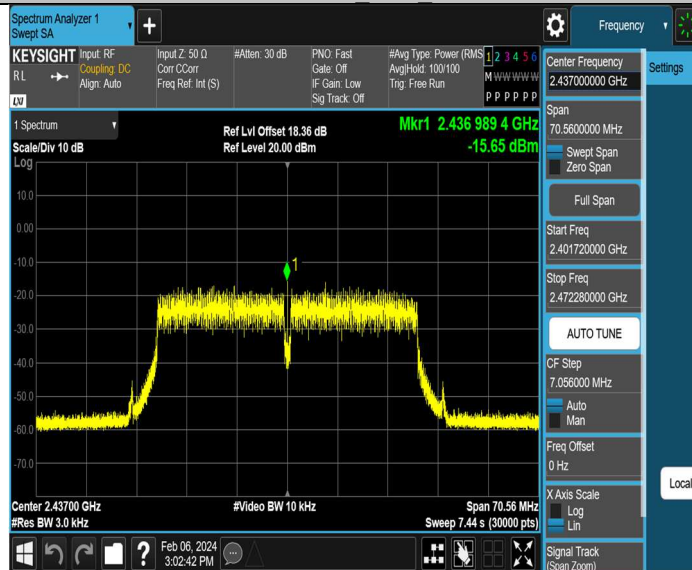
11N20SISO Ant1 2462



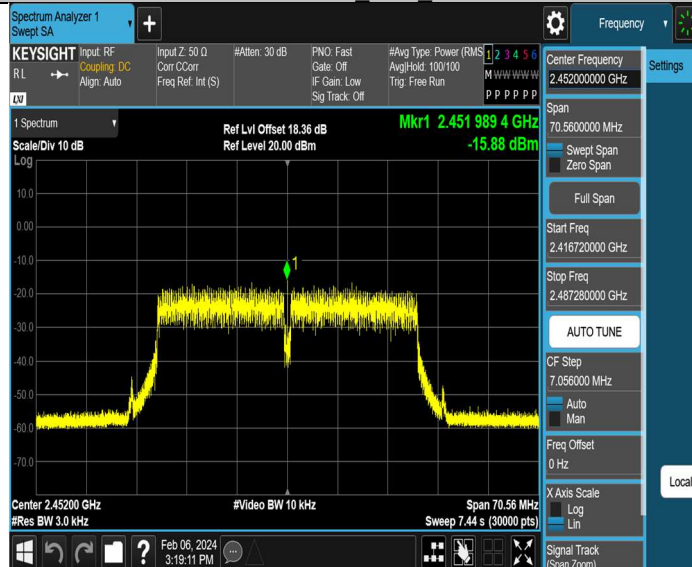
11N40SISO Ant1 2422



11N40SISO Ant1 2437



11N40SISO Ant1 2452



Appendix A.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.080	2407.960	2416.040	0.5	PASS
		2437	8.520	2432.480	2441.000	0.5	PASS
		2462	9.000	2457.520	2466.520	0.5	PASS
11G	Ant1	2412	16.360	2403.800	2420.160	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.200	2420.760	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	35.440	2404.080	2439.520	0.5	PASS
		2437	35.280	2419.240	2454.520	0.5	PASS
		2452	35.280	2434.240	2469.520	0.5	PASS

11B Ant1 2412



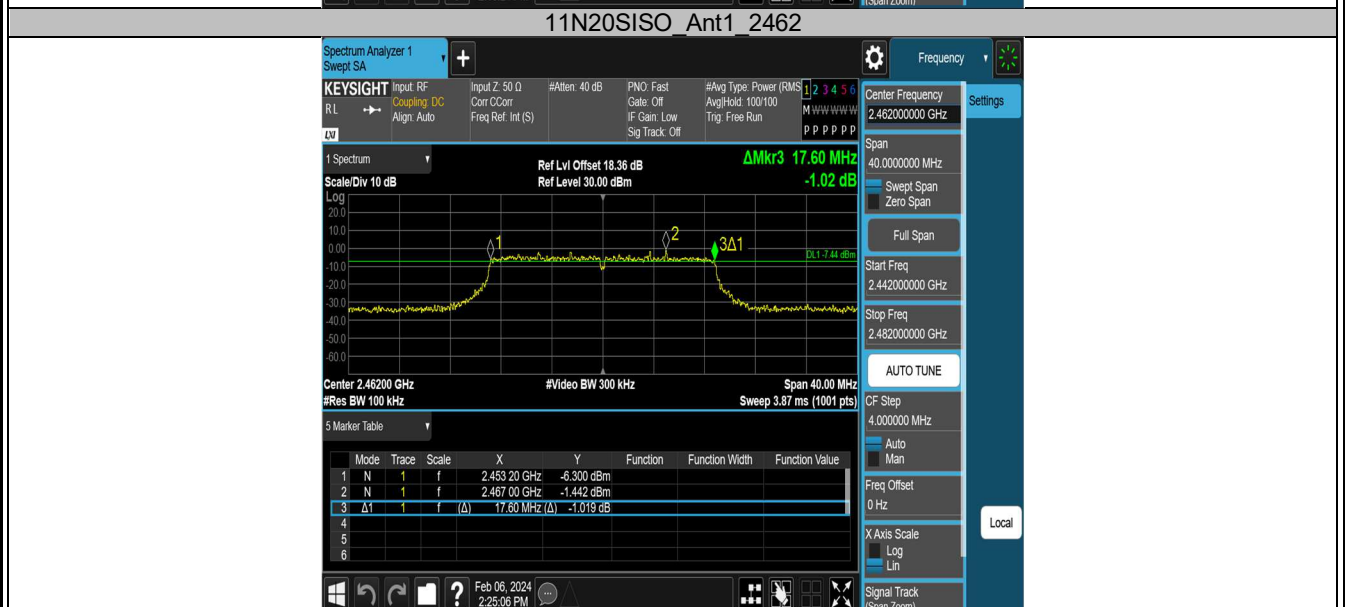
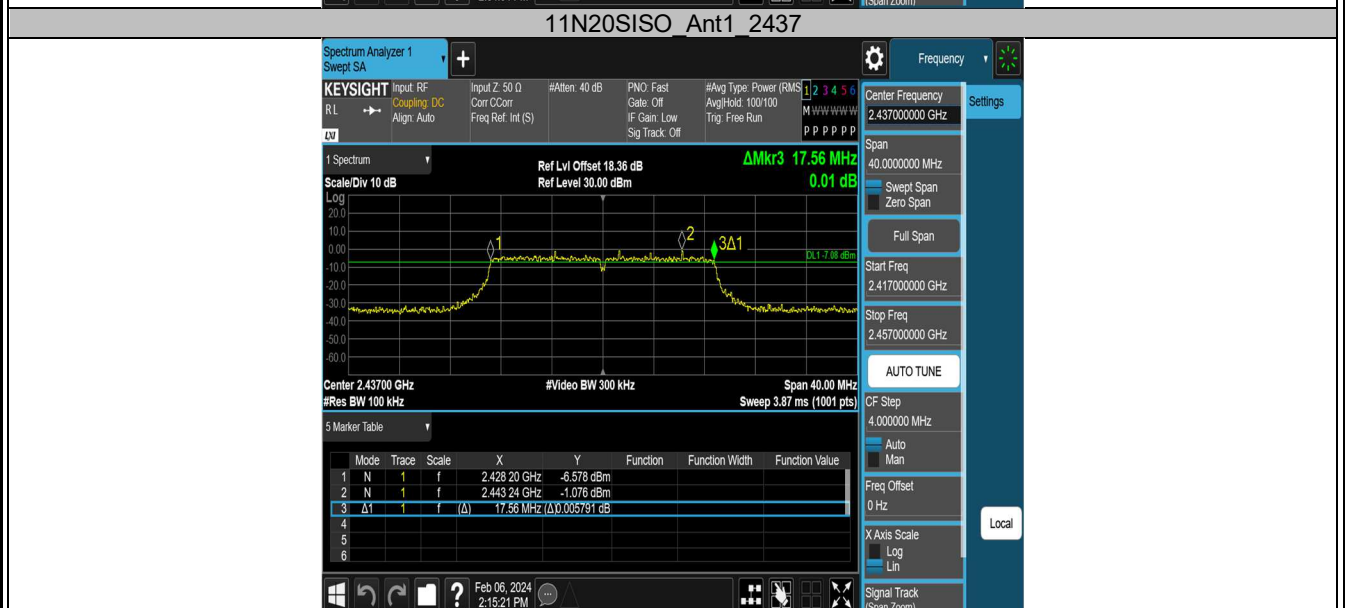
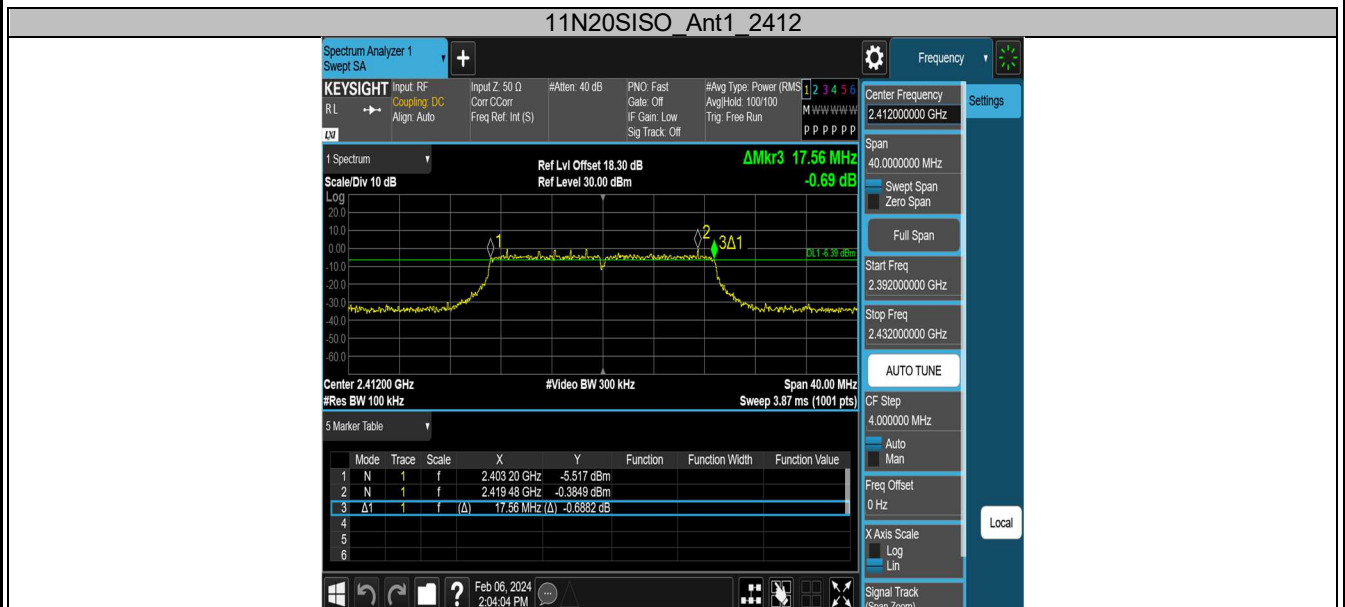
11B Ant1 2437



11B Ant1 2462







11N40SISO Ant1 2422



11N40SISO Ant1 2437



11N40SISO Ant1 2452



Appendix A.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.069	2404.9822	2419.0512	---	PASS
		2437	14.125	2429.9212	2444.0462	---	PASS
		2462	14.102	2454.9179	2469.0199	---	PASS
11G	Ant1	2412	17.174	2403.4325	2420.6065	---	PASS
		2437	17.184	2428.3948	2445.5788	---	PASS
		2462	17.152	2453.3480	2470.5000	---	PASS
11N20SISO	Ant1	2412	18.229	2402.8431	2421.0721	---	PASS
		2437	18.123	2427.8969	2446.0199	---	PASS
		2462	18.148	2452.8747	2471.0227	---	PASS
11N40SISO	Ant1	2422	36.699	2403.6572	2440.3562	---	PASS
		2437	36.787	2418.4977	2455.2847	---	PASS
		2452	36.664	2433.6656	2470.3296	---	PASS

11B Ant1 2412



11B Ant1 2437

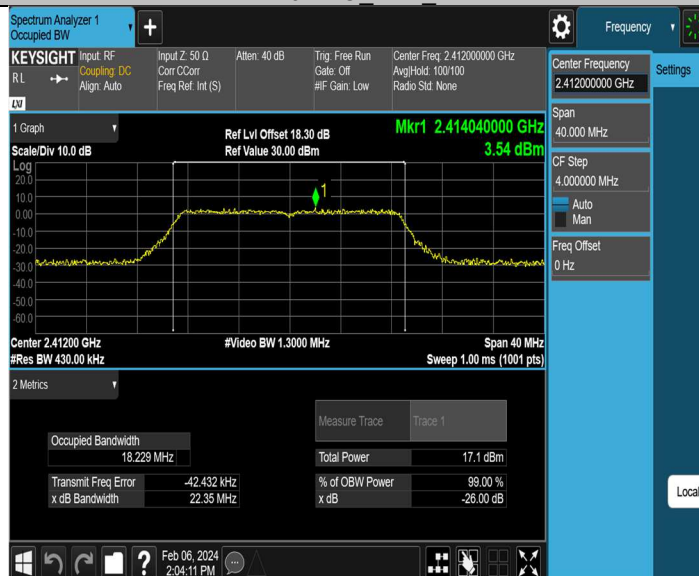


11B Ant1 2462

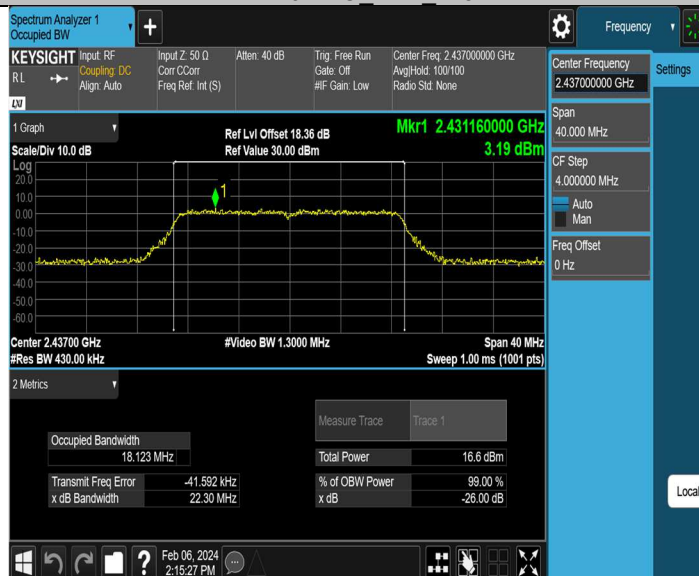




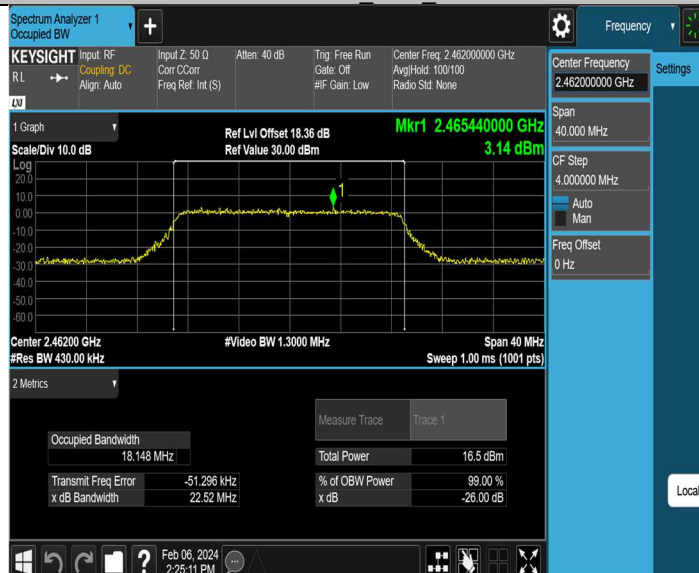
11N20SISO Ant1 2412



11N20SISO Ant1 2437



11N20SISO Ant1 2462





Appendix A.4: 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	4.55	-39.61	≤-15.45	PASS
		High	2462	4.03	-39.72	≤-15.97	PASS
11G	Ant1	Low	2412	-0.41	-38.28	≤-20.41	PASS
		High	2462	-0.95	-39.34	≤-20.95	PASS
11N20SISO	Ant1	Low	2412	-0.24	-37.72	≤-20.24	PASS
		High	2462	-0.43	-39.98	≤-20.43	PASS
11N40SISO	Ant1	Low	2422	-3.18	-37.8	≤-23.18	PASS
		High	2452	-2.94	-40.29	≤-22.94	PASS

11B Ant1 Low 2412



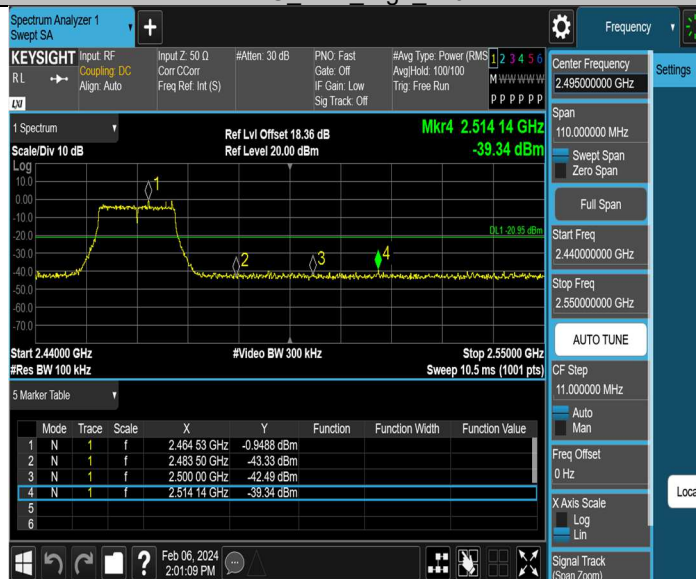
11B Ant1 High 2462



11G Ant1 Low 2412



11G Ant1 High 2462



11N20SISO Ant1 Low 2412



11N20SISO Ant1 High 2462



11N40SISO Ant1 Low 2422



11N40SISO Ant1 High 2452

