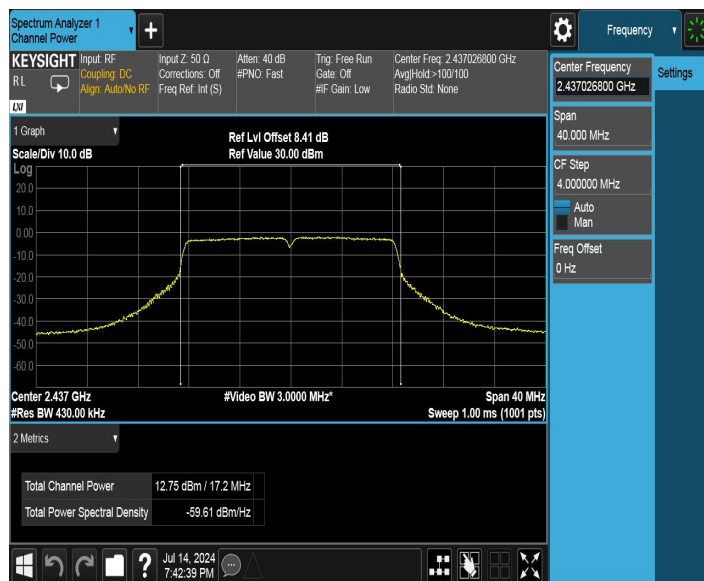
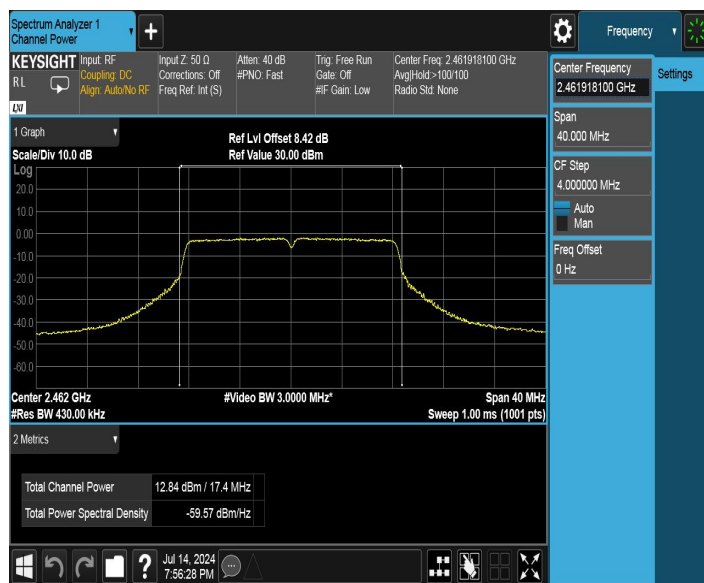
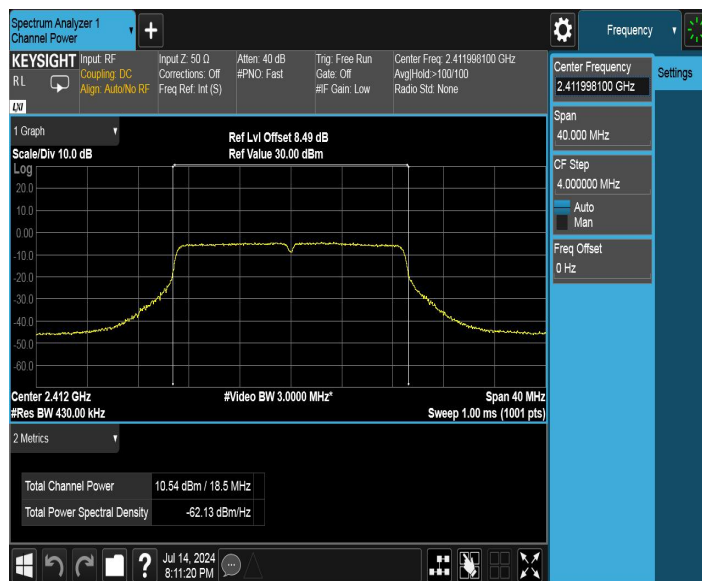




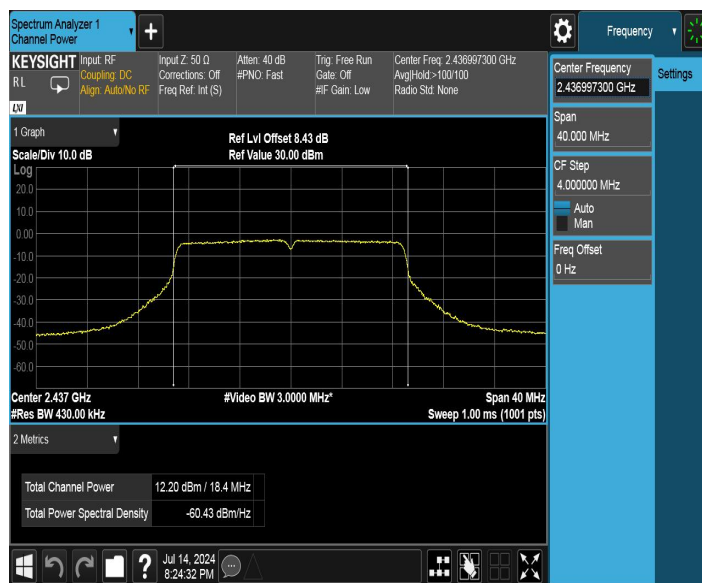
11G_Ant1_2462



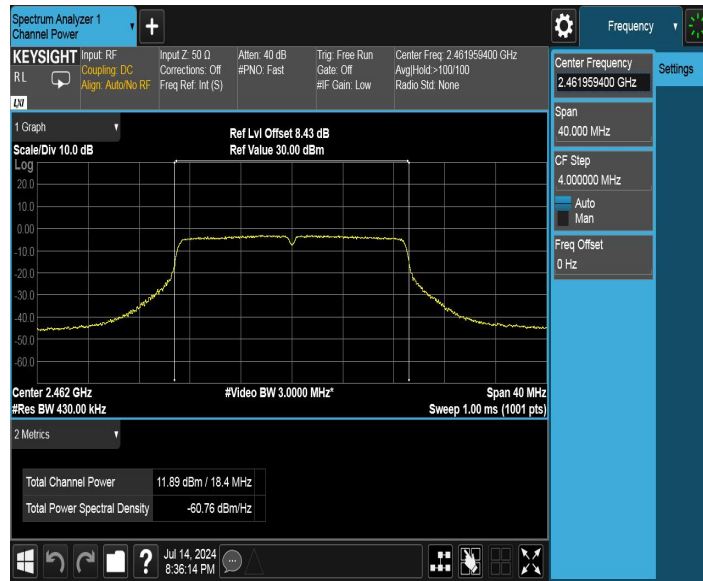
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



7.4. Power Spectral Density Measurement

7.4.1. Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band. And for antenna gain greater than 6dBi the limit shall reduce by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.4.2. Test Procedure Used

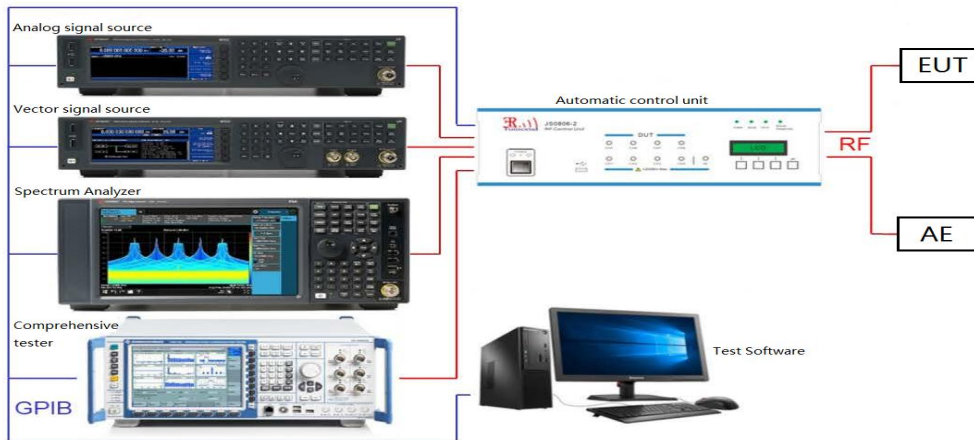
KDB 558074 D01 v05r02 - Section 8.4

ANSI C63.10 – Section 11.10.5

7.4.3. Test Setting

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the OBW.
3. Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq [3 \times \text{RBW}]$.
5. Detector = power averaging (rms) or sample detector (when rms not available).
6. Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span} / \text{RBW}]$.
7. Sweep time = auto couple.
8. Do not use sweep triggering; allow sweep to “free run.”
9. Employ trace averaging (rms) mode over a minimum of 100 traces.
10. Use the peak marker function to determine the maximum amplitude level.
11. Add $[10 \log (1 / D)]$, where D is the duty cycle measured in step a), to the measured PSD to
12. If measured value exceeds requirement specified by regulatory agency, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced)..

7.4.4. Test Setup

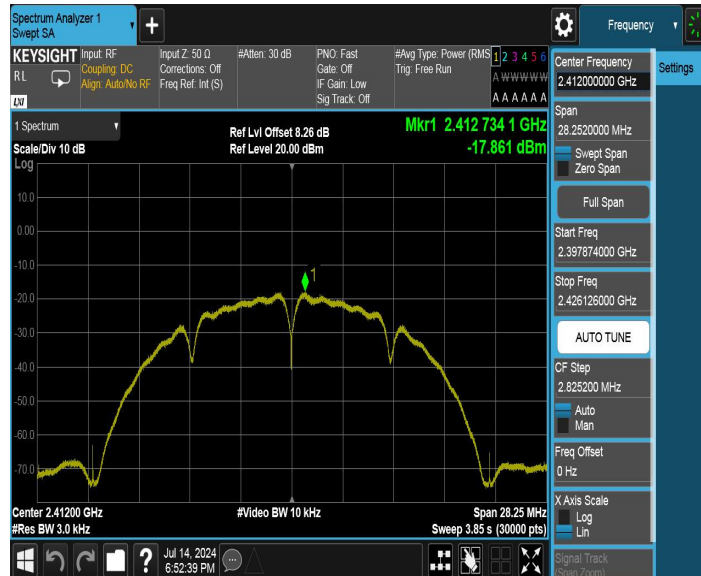


7.4.5. Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-17.86	≤8.00	PASS
		2437	-17.87	≤8.00	PASS
		2462	-18.14	≤8.00	PASS
11G	Ant1	2412	-19.71	≤8.00	PASS
		2437	-19.55	≤8.00	PASS
		2462	-19.21	≤8.00	PASS
11N20SISO	Ant1	2412	-21.54	≤8.00	PASS
		2437	-19.91	≤8.00	PASS
		2462	-20.09	≤8.00	PASS

Test Graphs

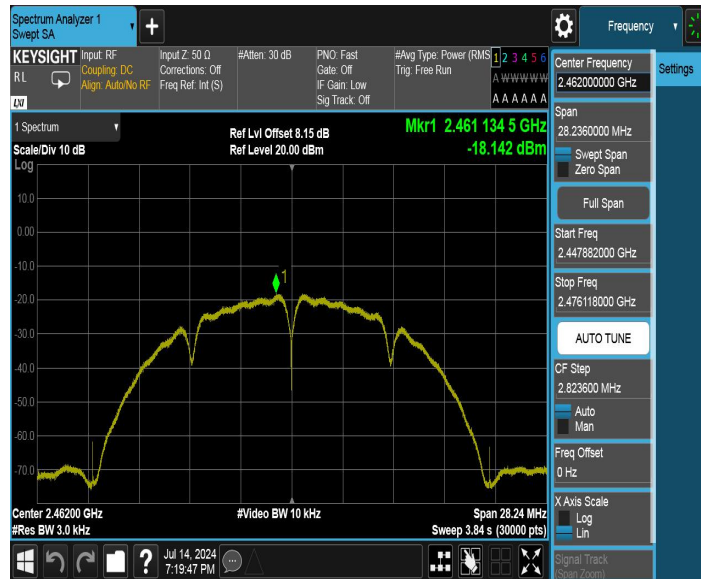
11B_Ant1_2412



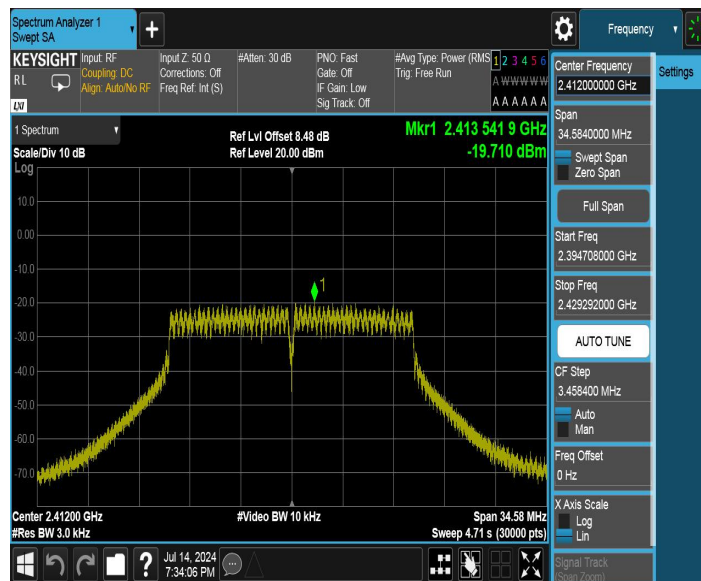
11B_Ant1_2437



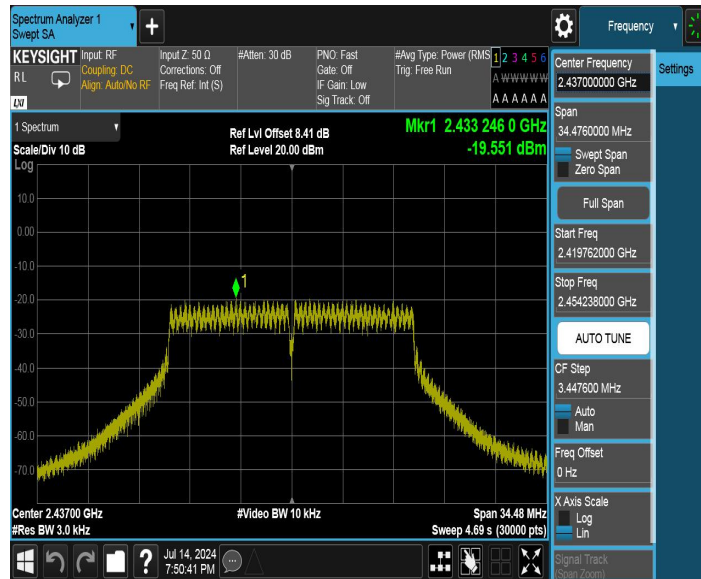
11B_Ant1_2462



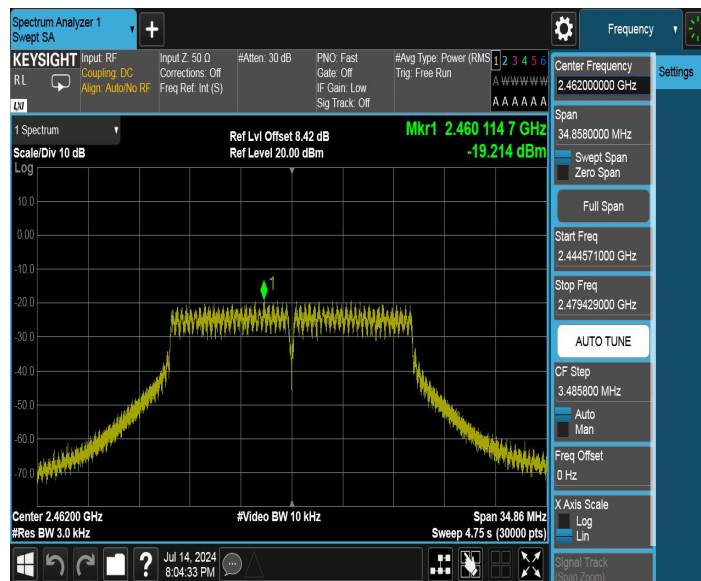
11G_Ant1_2412



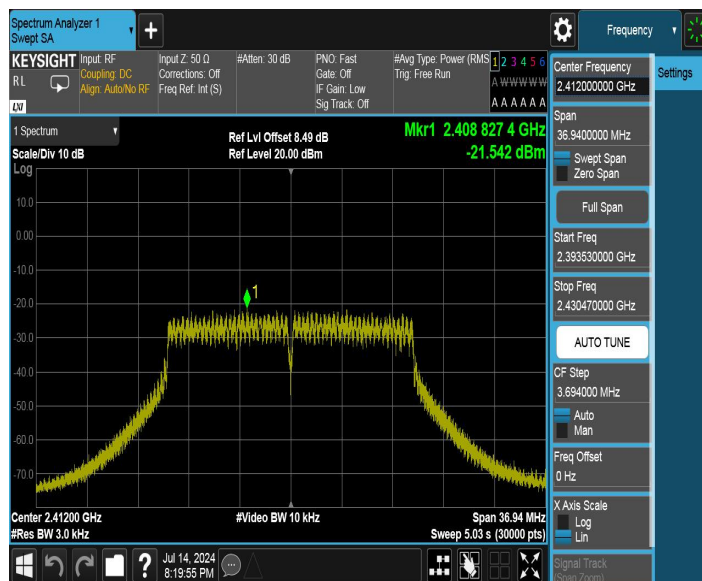
11G_Ant1_2437



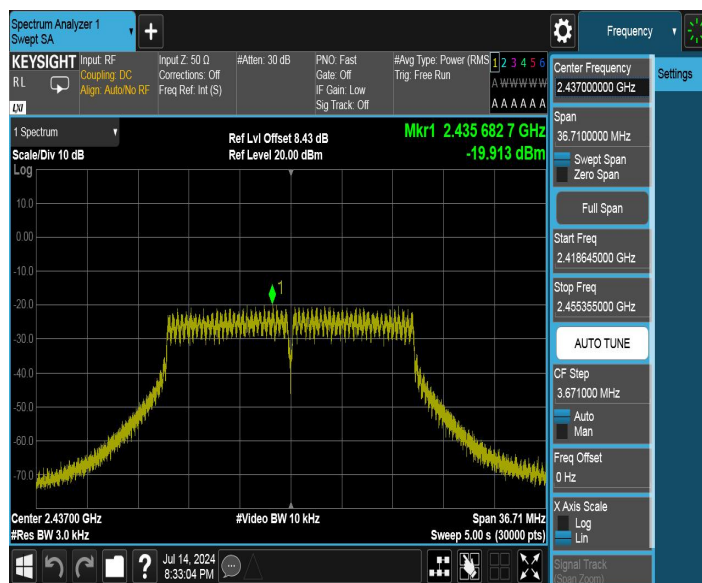
11G_Ant1_2462



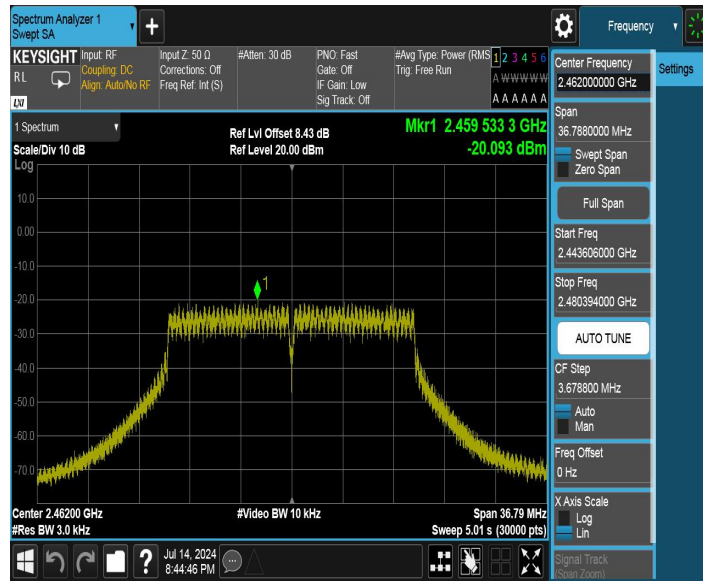
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



7.5. Conducted Band Edge and Out-of-Band Emissions

7.5.1. Test Limit

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

7.5.2. Test Procedure Used

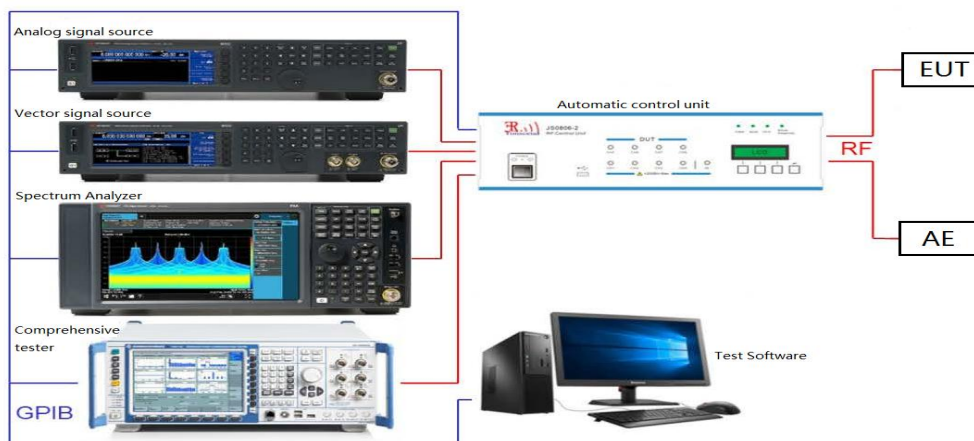
KDB 558074 D01 v05r02 - Section 8.5 & Section 8.6

ANSI C63.10 – Section 11.11&11.12

7.5.3. Test Settintng

- (a) Set the center frequency and span to encompass frequency range to be measured
- (b) RBW = 100kHz
- (c) VBW = 300kHz
- (d) Detector = RMS
- (e) Trace mode = max hold
- (f) Sweep time = auto couple
- (g) The trace was allowed to stabilize

7.5.4. Test Setup



7.5.5. Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	5.27	5.27	---	PASS
			30~1000	5.27	-56.56	≤-14.73	PASS
			1000~26500	5.27	-48.55	≤-14.73	PASS
		2437	Reference	4.89	4.89	---	PASS
			30~1000	4.89	-56.42	≤-15.11	PASS
			1000~26500	4.89	-49.45	≤-15.11	PASS
		2462	Reference	5.08	5.08	---	PASS
			30~1000	5.08	-56.93	≤-14.92	PASS
			1000~26500	5.08	-50.02	≤-14.92	PASS
11G	Ant1	2412	Reference	1.58	1.58	---	PASS
			30~1000	1.58	-54.45	≤-18.42	PASS
			1000~26500	1.58	-53.07	≤-18.42	PASS
		2437	Reference	1.92	1.92	---	PASS
			30~1000	1.92	-54.4	≤-18.08	PASS
			1000~26500	1.92	-47.23	≤-18.08	PASS
		2462	Reference	1.98	1.98	---	PASS
			30~1000	1.98	-54.5	≤-18.02	PASS
			1000~26500	1.98	-52.77	≤-18.02	PASS
11N20SISO	Ant1	2412	Reference	-0.61	-0.61	---	PASS
			30~1000	-0.61	-54.14	≤-20.61	PASS
			1000~26500	-0.61	-52.88	≤-20.61	PASS
		2437	Reference	1.46	1.46	---	PASS
			30~1000	1.46	-54.55	≤-18.54	PASS
			1000~26500	1.46	-52.67	≤-18.54	PASS
		2462	Reference	0.48	0.48	---	PASS
			30~1000	0.48	-54.49	≤-19.52	PASS
			1000~26500	0.48	-53.15	≤-19.52	PASS

Test Graphs of Band Edge

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412



11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462

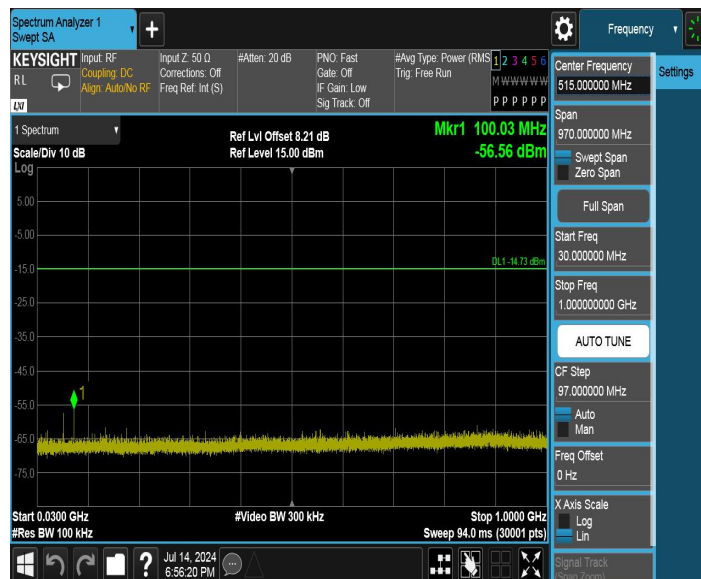


Test Graphs of Out-of-Band Emissions

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500



11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



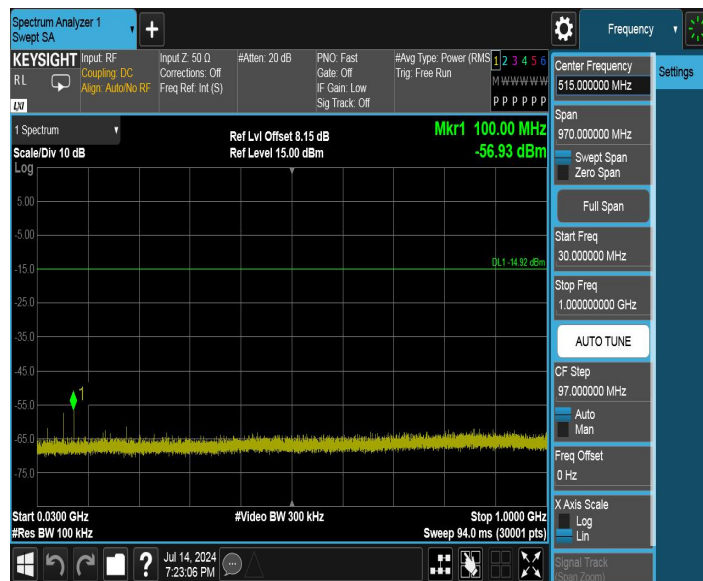
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500