

	Ant2	2452	13.25	≤30.00	13.73	≤36.00	PASS
	total	2452	17.32	≤30.00	17.80	≤36.00	PASS

11. Power Spectral Density

11.1. Block diagram of test setup

Same as section 8.1

11.2. Limits

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.247 (e) ISED RSS-247 5.2 (b)	Power Spectral Density	8 dBm/3 kHz	2400-2483.5

11.3. Test Procedure

Connect the UUT to the spectrum analyzer and use the following settings:

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

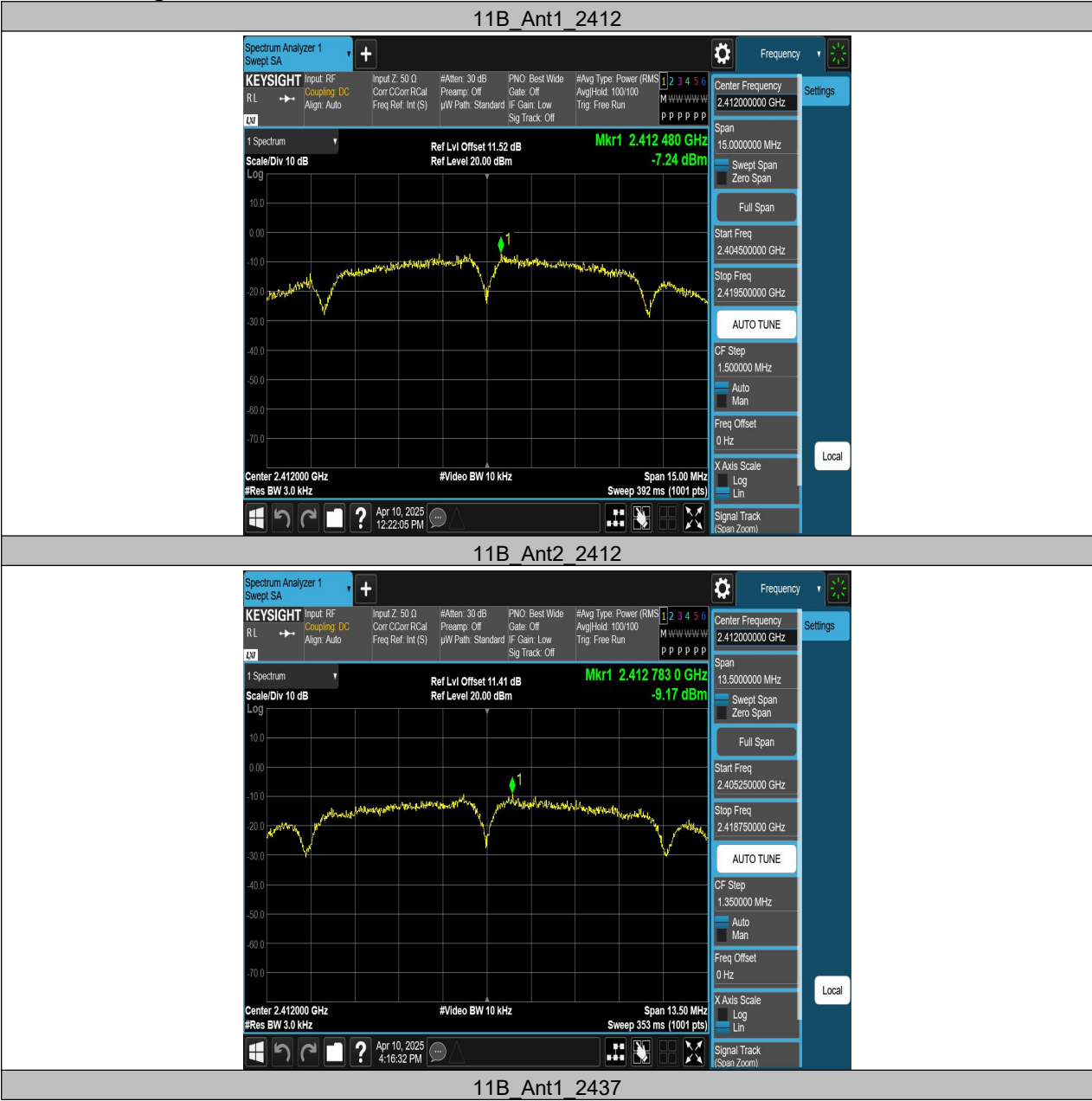
If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

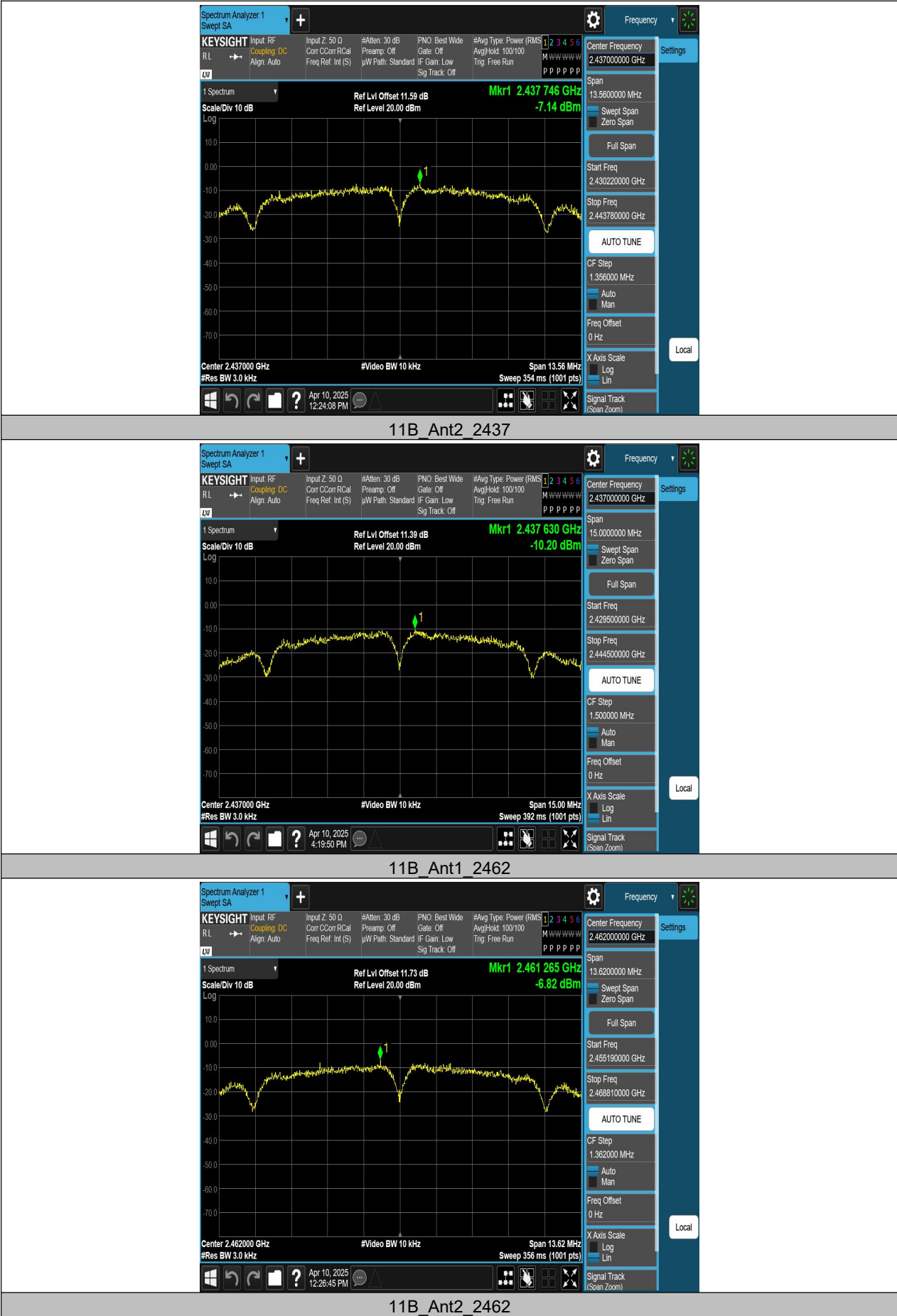
11.4. Results

Test Mode	Ant.	Freq. (MHz)	Result (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
11B	Ant1	2412	-7.24	≤ 8.00	PASS
	Ant2	2412	-9.18	≤ 8.00	PASS
	Ant1	2437	-7.14	≤ 8.00	PASS
	Ant2	2437	-10.20	≤ 8.00	PASS
	Ant1	2462	-6.82	≤ 8.00	PASS
	Ant2	2462	-9.97	≤ 8.00	PASS
11G	Ant1	2412	-14.59	≤ 8.00	PASS
	Ant2	2412	-15.85	≤ 8.00	PASS
	Ant1	2437	-14.27	≤ 8.00	PASS
	Ant2	2437	-16.89	≤ 8.00	PASS
	Ant1	2462	-13.24	≤ 8.00	PASS
	Ant2	2462	-16.02	≤ 8.00	PASS
11N20MIMO	Ant1	2412	-15.80	≤ 8.00	PASS
	Ant2	2412	-17.93	≤ 8.00	PASS
	total	2412	-13.73	≤ 8.00	PASS
	Ant1	2437	-15.93	≤ 8.00	PASS
	Ant2	2437	-18.33	≤ 8.00	PASS
	total	2437	-13.96	≤ 8.00	PASS
	Ant1	2462	-15.42	≤ 8.00	PASS
	Ant2	2462	-18.59	≤ 8.00	PASS
	total	2462	-13.71	≤ 8.00	PASS
11N40MIMO	Ant1	2422	-18.71	≤ 8.00	PASS

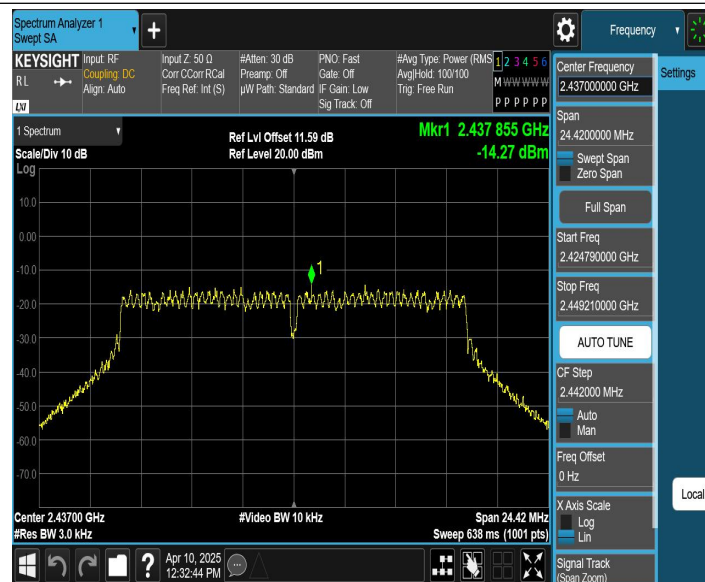
	Ant2	2422	-19.97	≤8.00	PASS
	total	2422	-16.28	≤8.00	PASS
	Ant1	2437	-18.22	≤8.00	PASS
	Ant2	2437	-19.49	≤8.00	PASS
	total	2437	-15.80	≤8.00	PASS
	Ant1	2452	-19.07	≤8.00	PASS
	Ant2	2452	-20.04	≤8.00	PASS
	total	2452	-16.52	≤8.00	PASS

11.5. Original test data

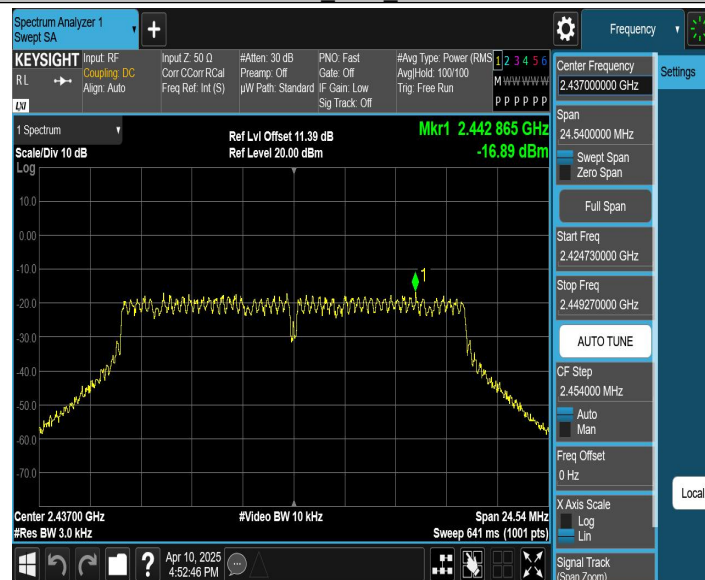




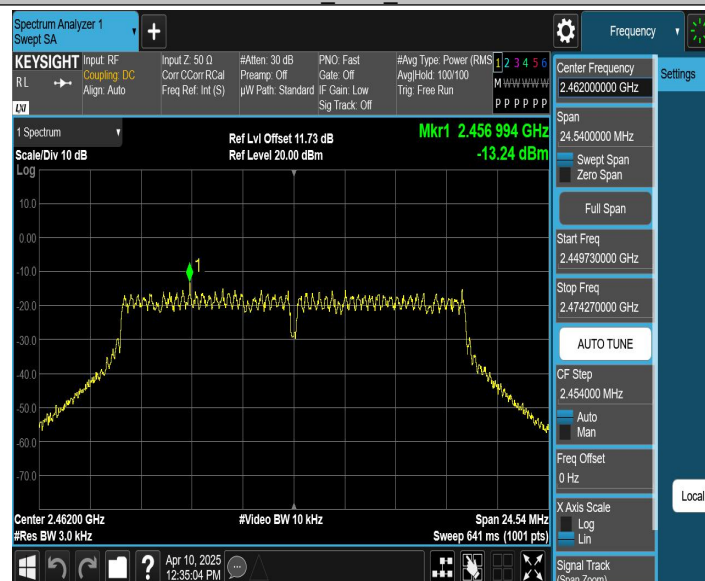




11G_Ant2_2437



11G_Ant1_2462



11G Ant2 2462







