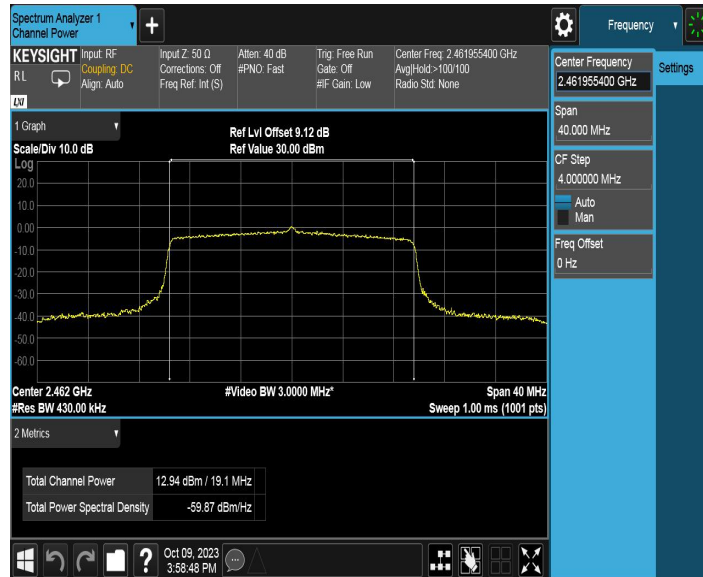


11AX20MIMO_Ant2_2462



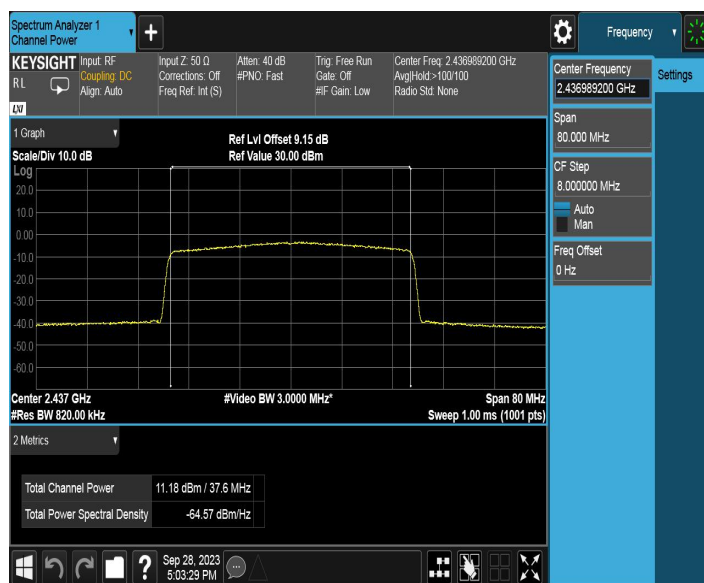
11AX40MIMO_Ant1_2422



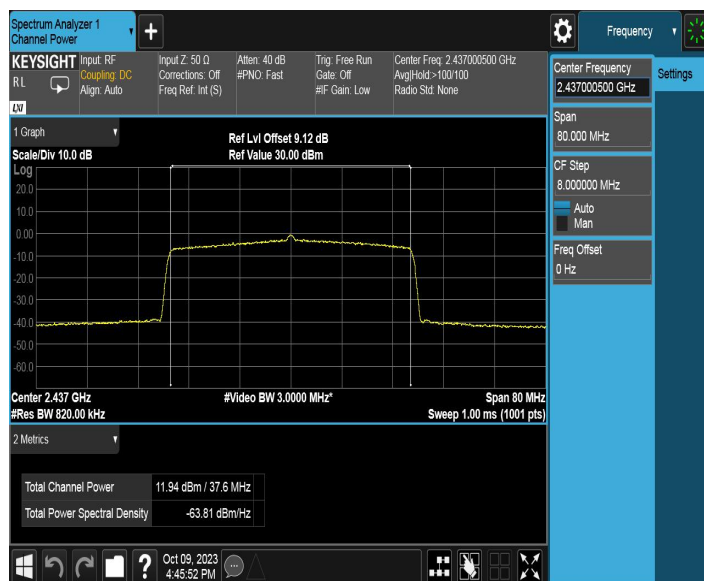
11AX40MIMO_Ant2_2422



11AX40MIMO_Ant1_2437



11AX40MIMO_Ant2_2437



11AX40MIMO_Ant1_2452



11AX40MIMO_Ant2_2452



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

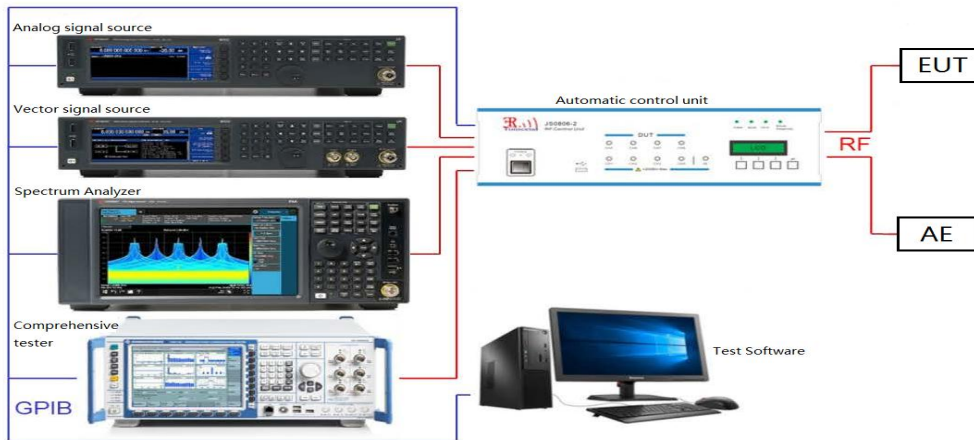
KDB 558074 D01 v05r02 - Section 8.4

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



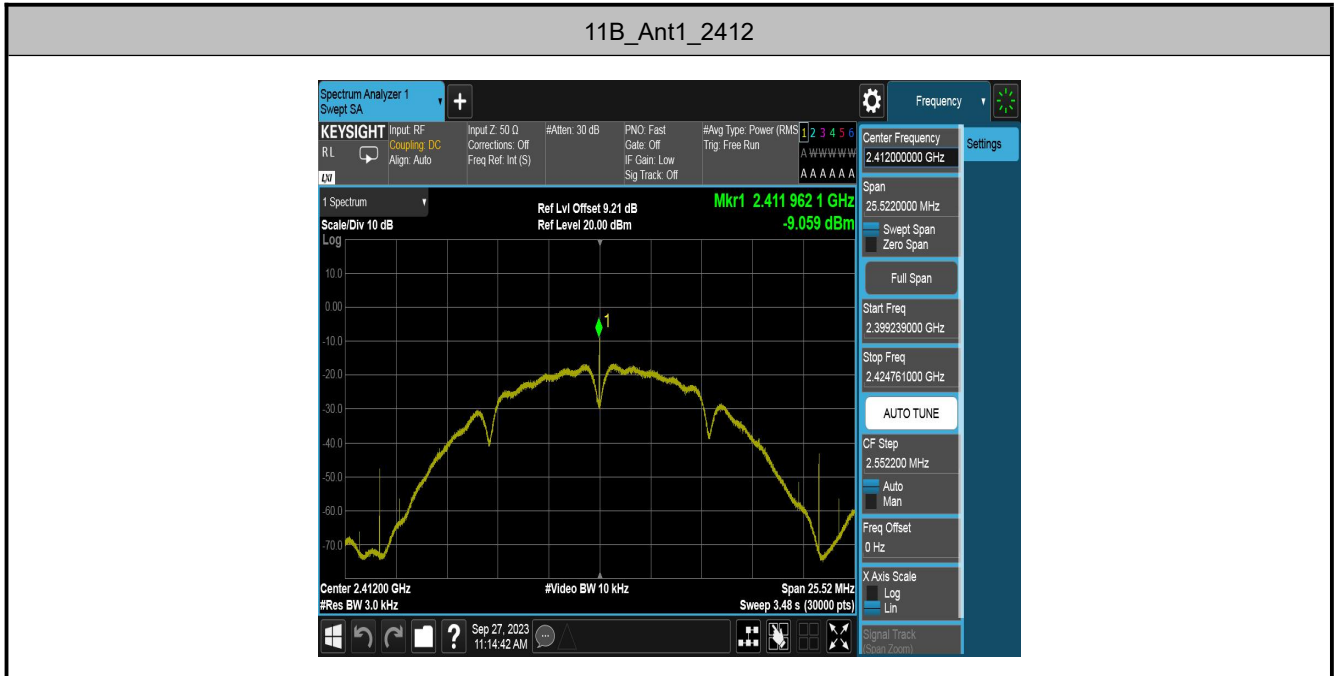
7.4.5. Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.06	≤8.00	PASS
	Ant2	2412	-8.68	≤8.00	PASS
	Ant1	2437	-11.63	≤8.00	PASS
	Ant2	2437	-5.61	≤8.00	PASS
	Ant1	2462	-13.65	≤8.00	PASS
	Ant2	2462	-5.47	≤8.00	PASS
11G	Ant1	2412	-3.78	≤8.00	PASS
	Ant2	2412	-2.28	≤8.00	PASS
	Ant1	2437	-6.53	≤8.00	PASS
	Ant2	2437	-3.76	≤8.00	PASS
	Ant1	2462	-8.13	≤8.00	PASS
	Ant2	2462	-3.75	≤8.00	PASS
11N20MIMO	Ant1	2412	-3.50	≤8.00	PASS
	Ant2	2412	-2.62	≤8.00	PASS
	Total	2412	-0.03	≤8.00	PASS
	Ant1	2437	-6.52	≤8.00	PASS
	Ant2	2437	-4.03	≤8.00	PASS
	Total	2437	-2.09	≤8.00	PASS
	Ant1	2462	-7.71	≤8.00	PASS
	Ant2	2462	-4.35	≤8.00	PASS
	Total	2462	-2.70	≤8.00	PASS
11N40MIMO	Ant1	2422	-3.67	≤8.00	PASS
	Ant2	2422	-2.54	≤8.00	PASS
	Total	2422	-0.06	≤8.00	PASS
	Ant1	2437	-5.84	≤8.00	PASS
	Ant2	2437	-1.55	≤8.00	PASS
	Total	2437	-0.18	≤8.00	PASS
	Ant1	2452	-10.91	≤8.00	PASS
	Ant2	2452	-1.03	≤8.00	PASS
	Total	2452	-0.61	≤8.00	PASS
11AX20MIMO	Ant1	2412	-2.91	≤8.00	PASS
	Ant2	2412	-3.01	≤8.00	PASS
	Total	2412	0.05	≤8.00	PASS
	Ant1	2437	-5.62	≤8.00	PASS

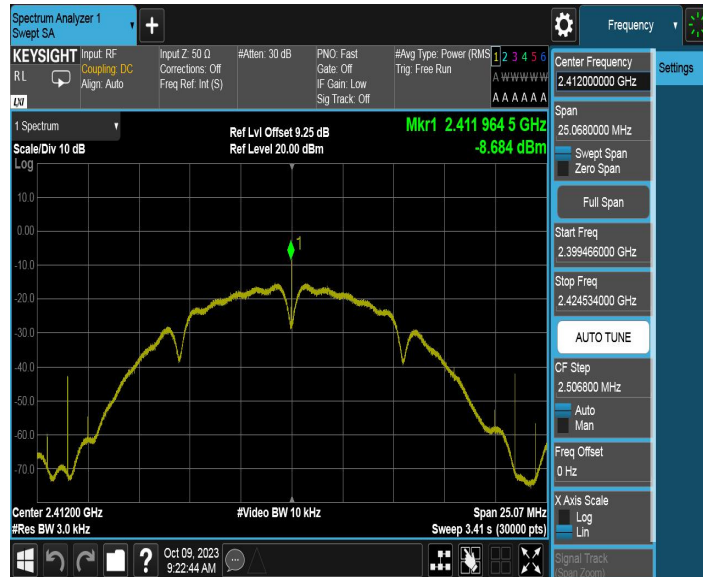
	Ant2	2437	-2.33	≤ 8.00	PASS
	Total	2437	-0.66	≤ 8.00	PASS
	Ant1	2462	-7.29	≤ 8.00	PASS
	Ant2	2462	-1.98	≤ 8.00	PASS
	Total	2462	-0.86	≤ 8.00	PASS
11AX40MIMO	Ant1	2422	-9.43	≤ 8.00	PASS
	Ant2	2422	-2.59	≤ 8.00	PASS
	Total	2422	-1.77	≤ 8.00	PASS
	Ant1	2437	-10.39	≤ 8.00	PASS
	Ant2	2437	-3.50	≤ 8.00	PASS
	Total	2437	-2.69	≤ 8.00	PASS
	Ant1	2452	-11.07	≤ 8.00	PASS
	Ant2	2452	-4.52	≤ 8.00	PASS
	Total	2452	-3.65	≤ 8.00	PASS

The Duty Cycle Factor is compensated in the Offset of graph.

Test Graphs



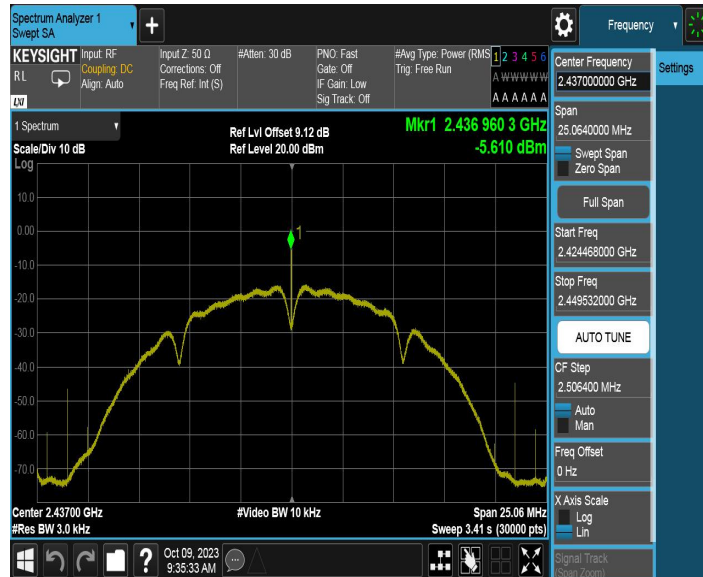
11B_Ant2_2412



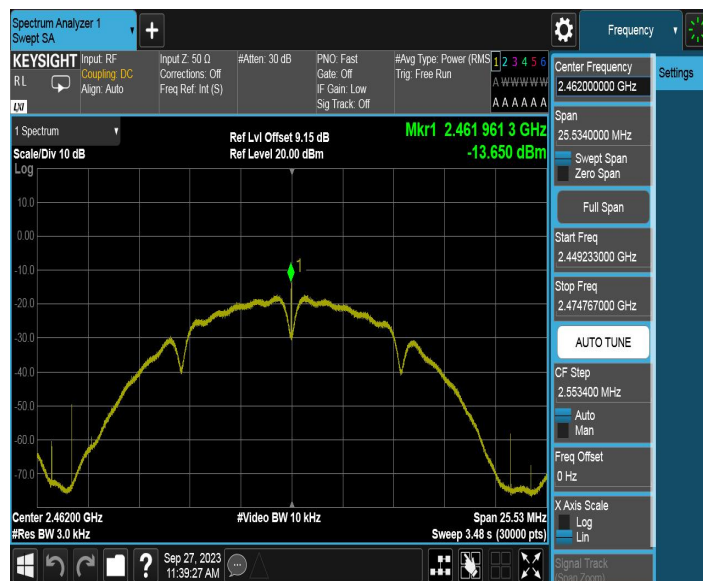
11B_Ant1_2437



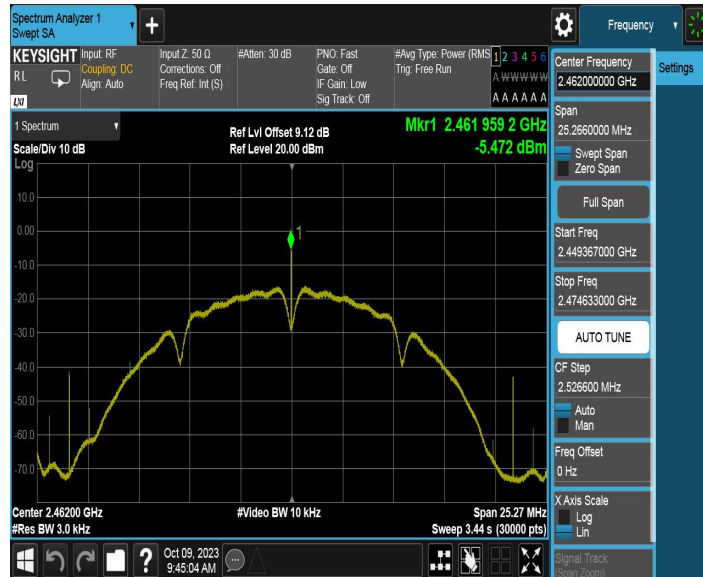
11B_Ant2_2437



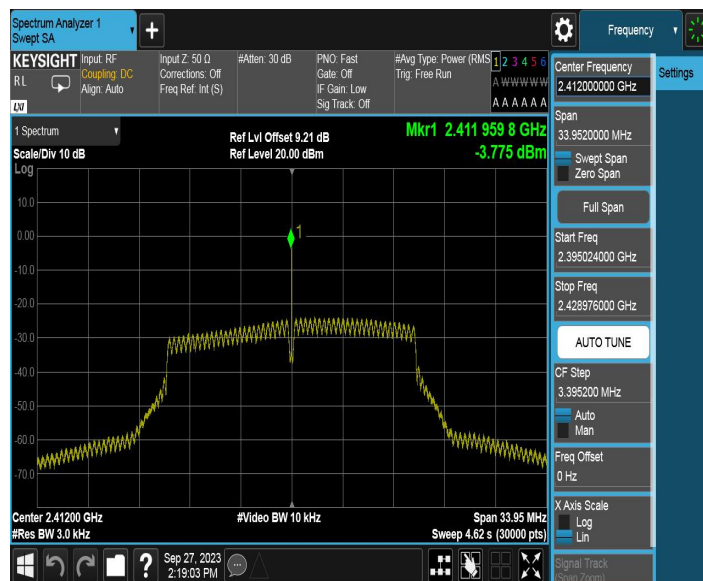
11B_Ant1_2462



11B_Ant2_2462



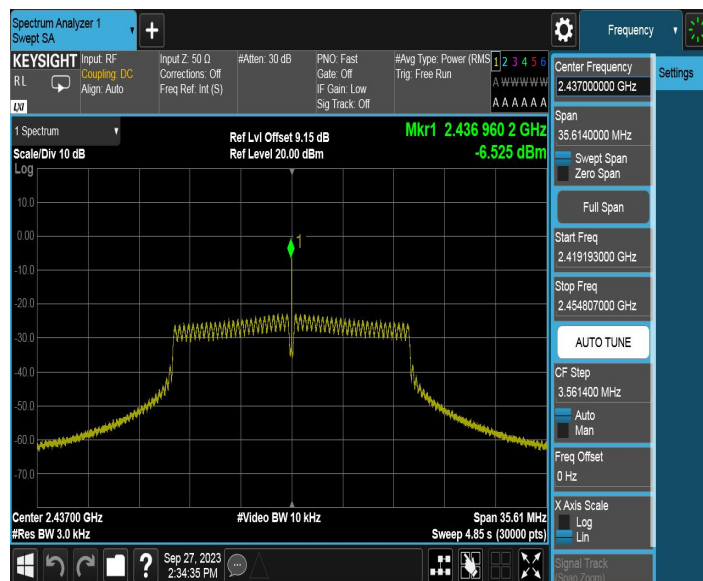
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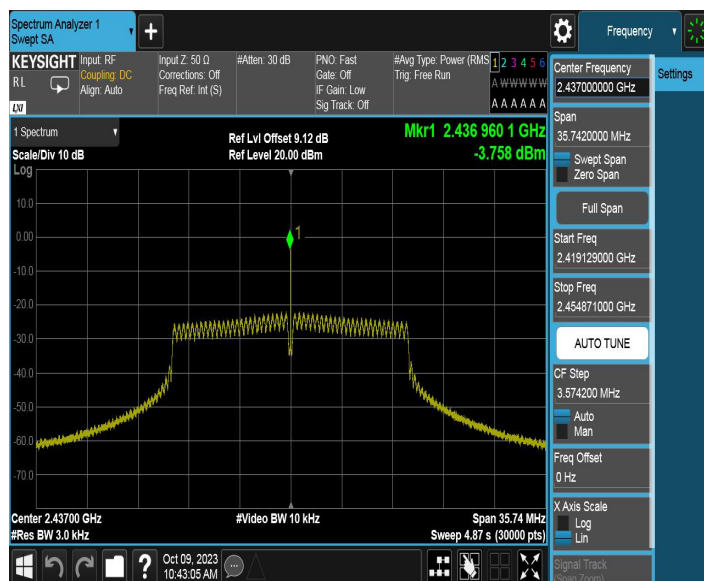
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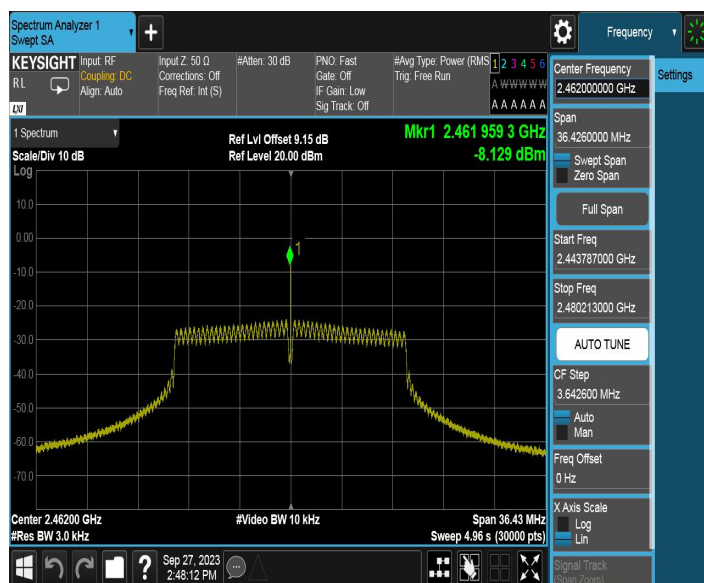
11G_Ant1_2437



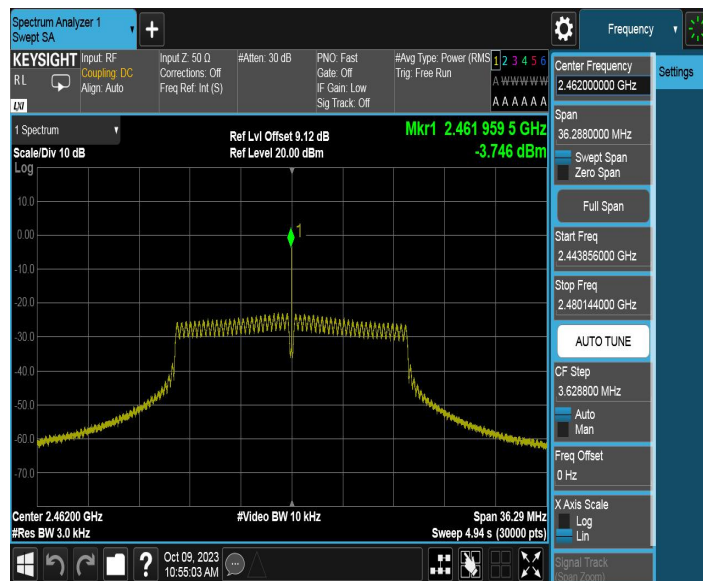
11G_Ant2_2437



11G_Ant1_2462



11G_Ant2_2462



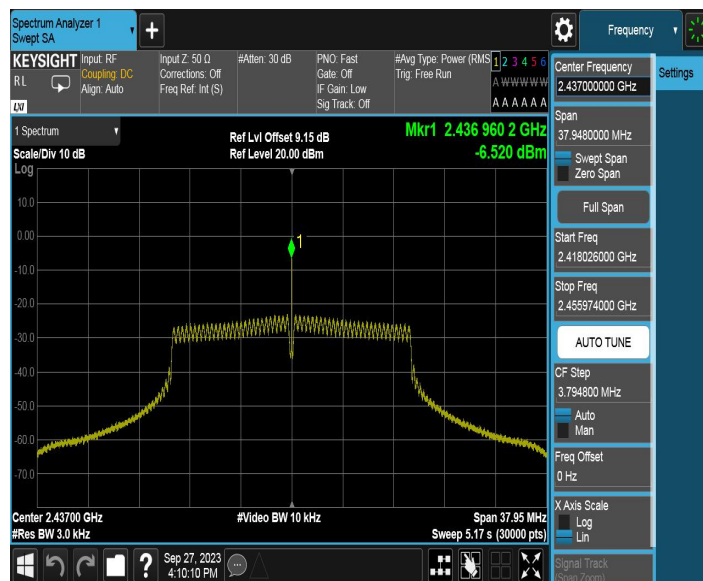
11N20MIMO_Ant1_2412



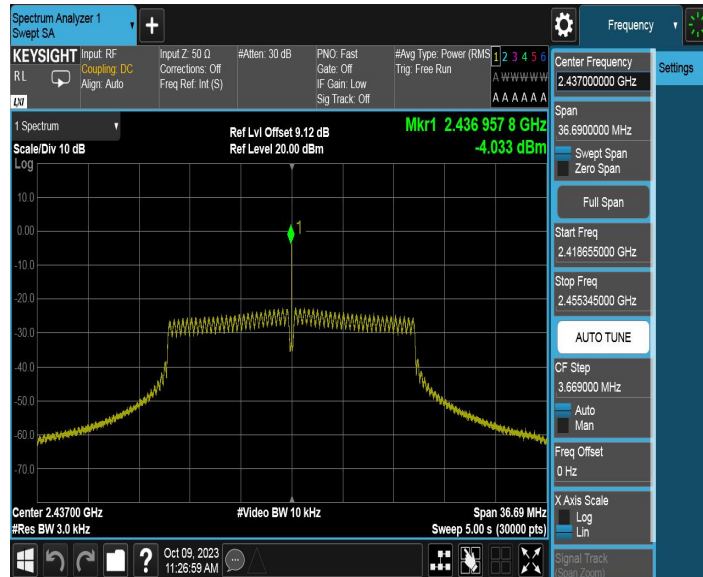
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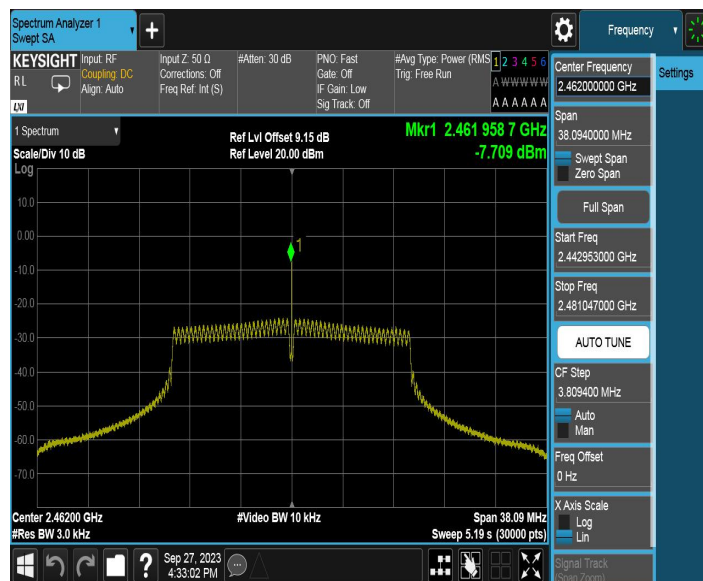
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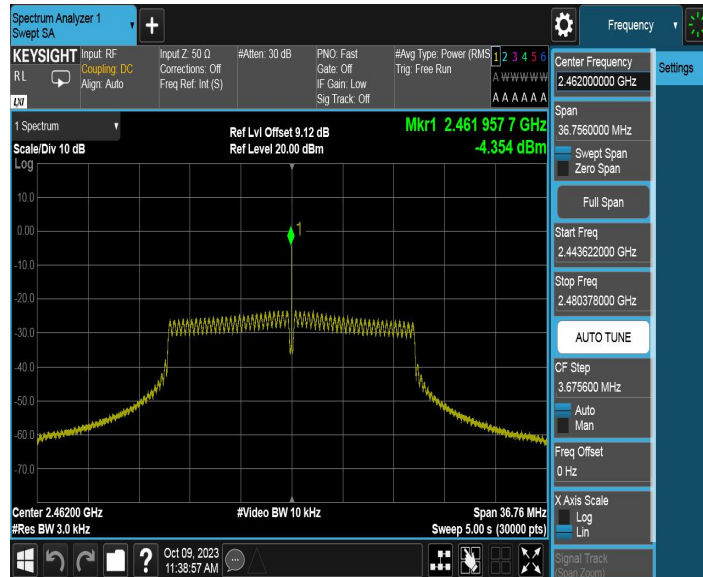
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11N20MIMO_Ant1_2462



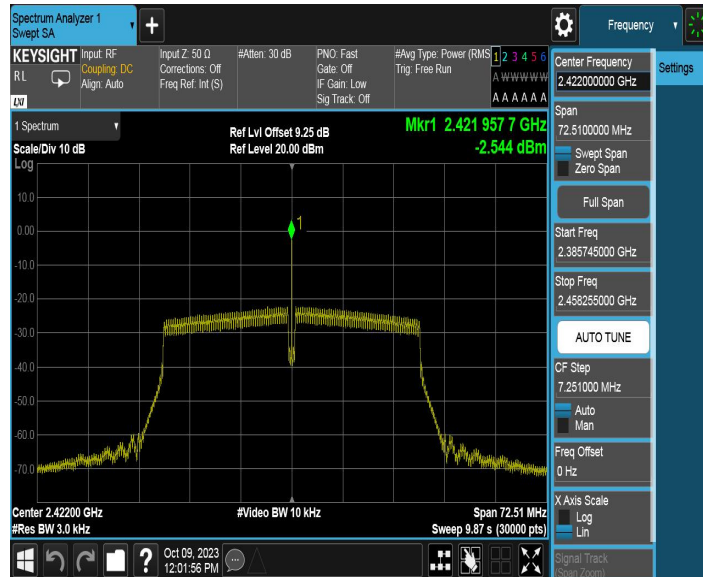
11N20MIMO_Ant2_2462



11N40MIMO_Ant1_2422



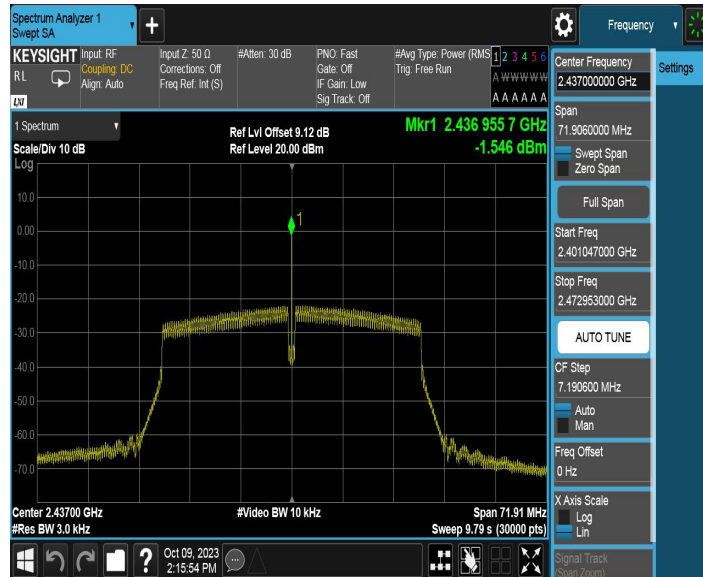
11N40MIMO_Ant2_2422



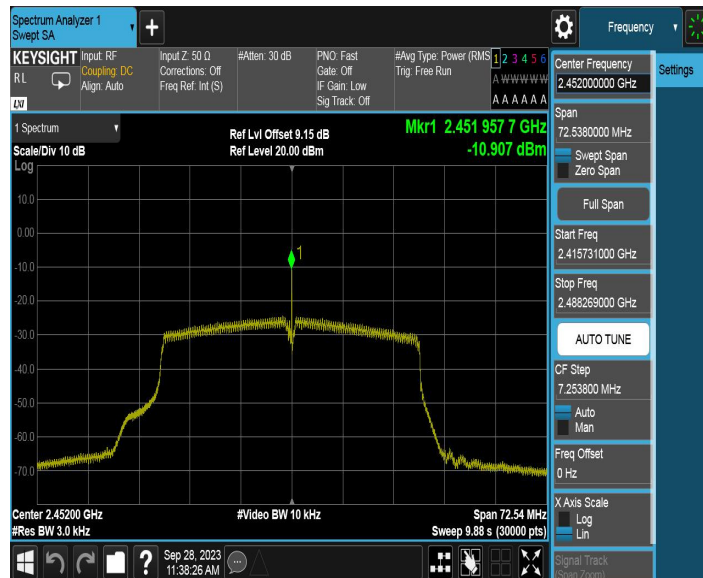
11N40MIMO_Ant1_2437



11N40MIMO_Ant2_2437



11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452



11AX20MIMO_Ant1_2412



11AX20MIMO_Ant2_2412



11AX20MIMO_Ant1_2437

