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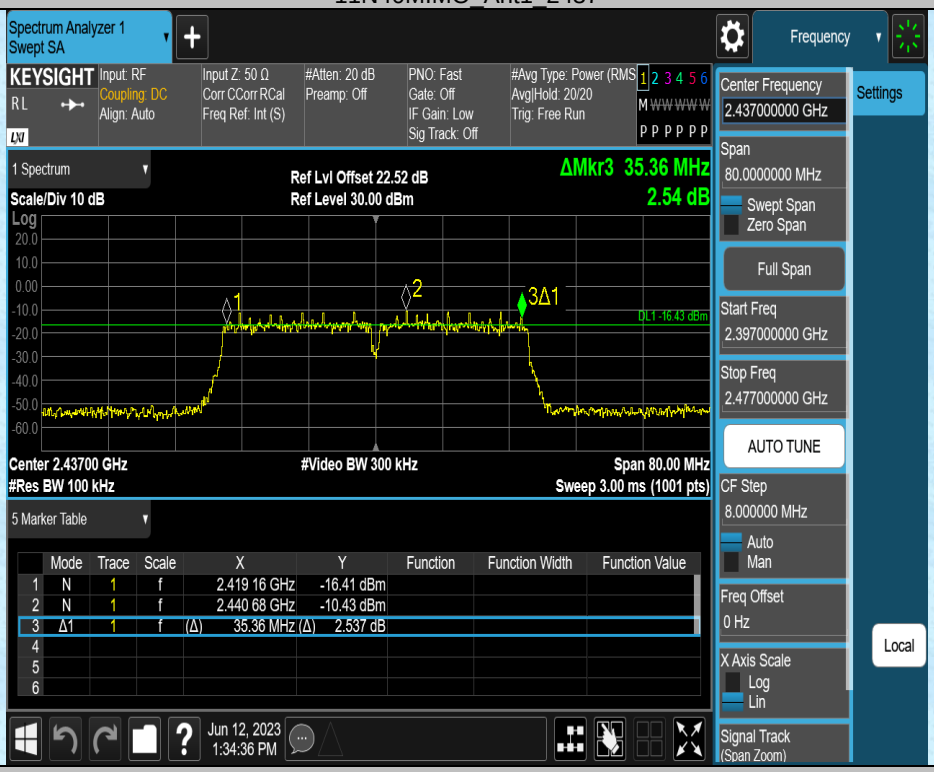

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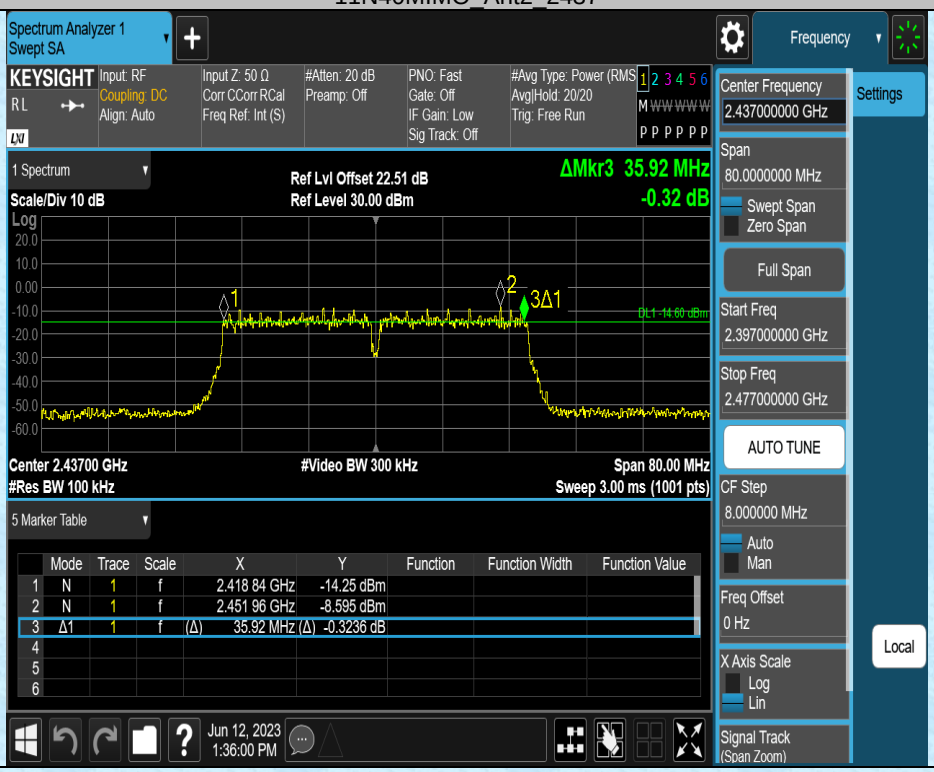
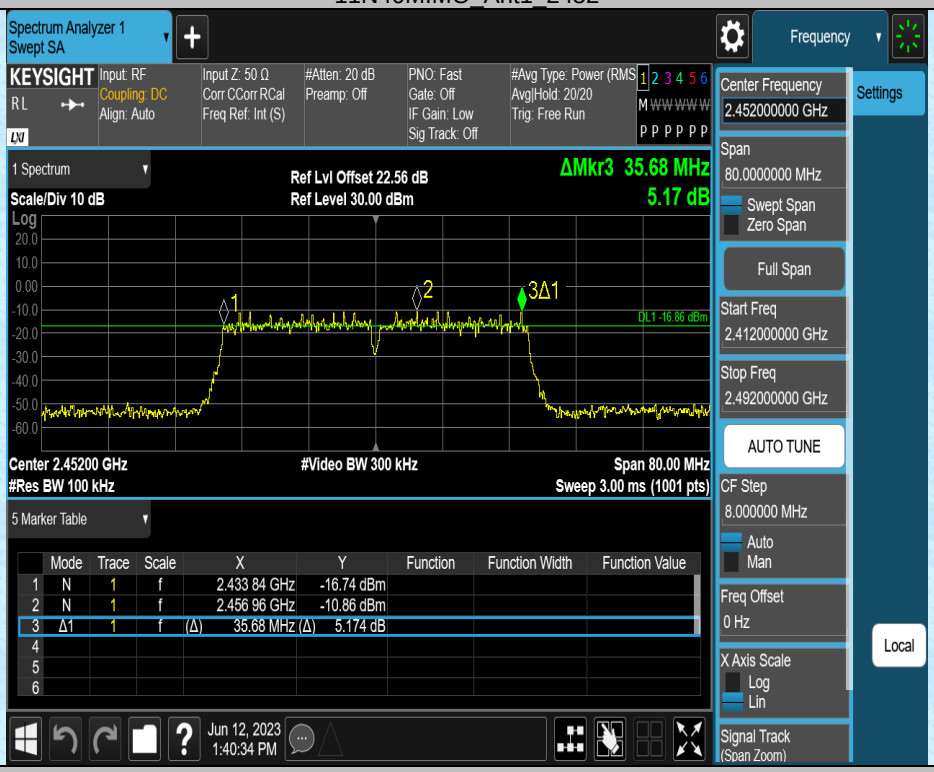
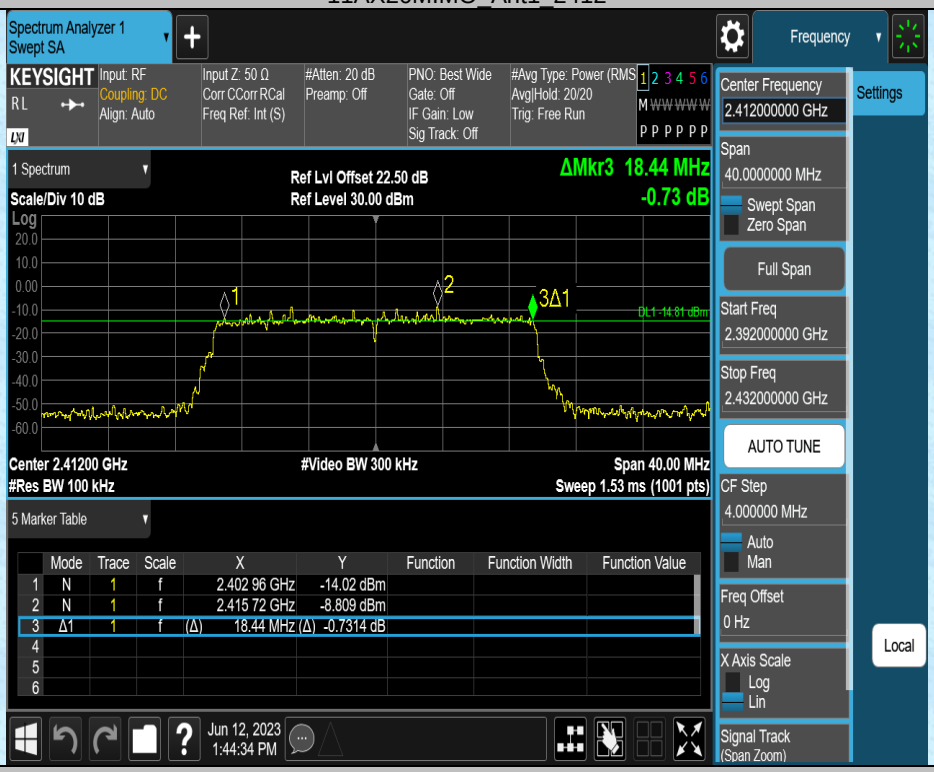


11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452

11AX20MIMO_Ant1_2412



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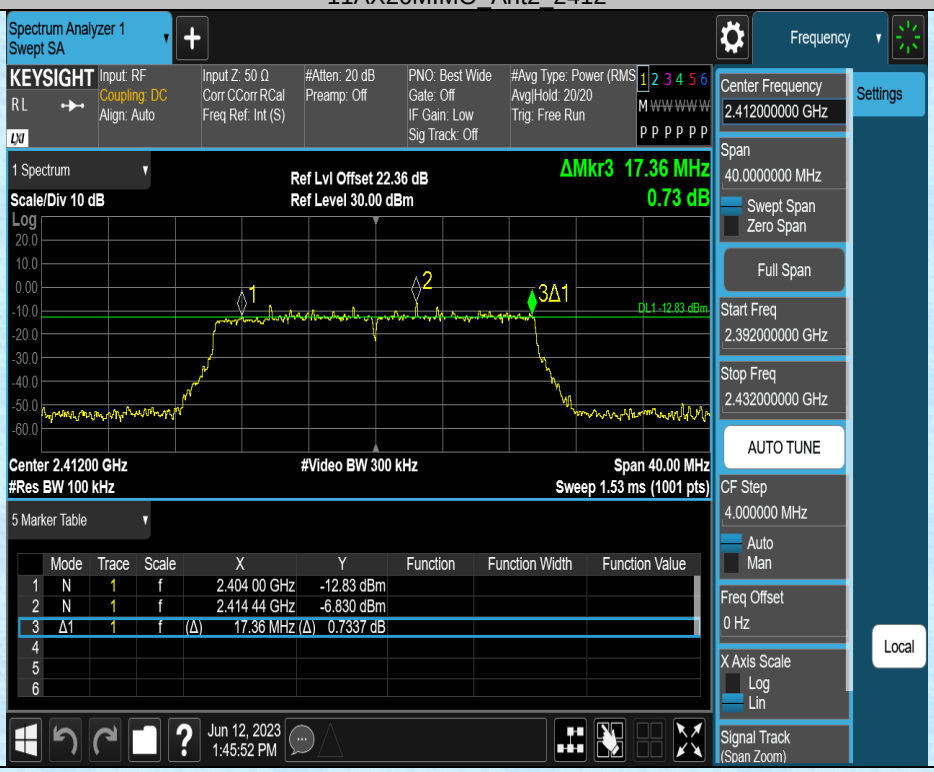

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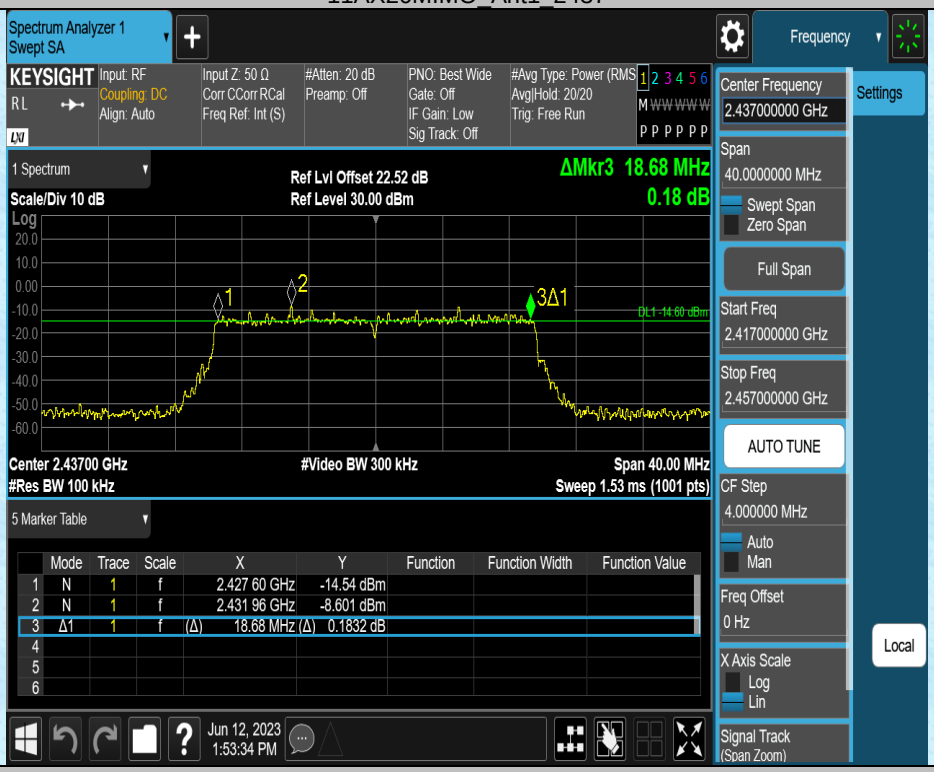
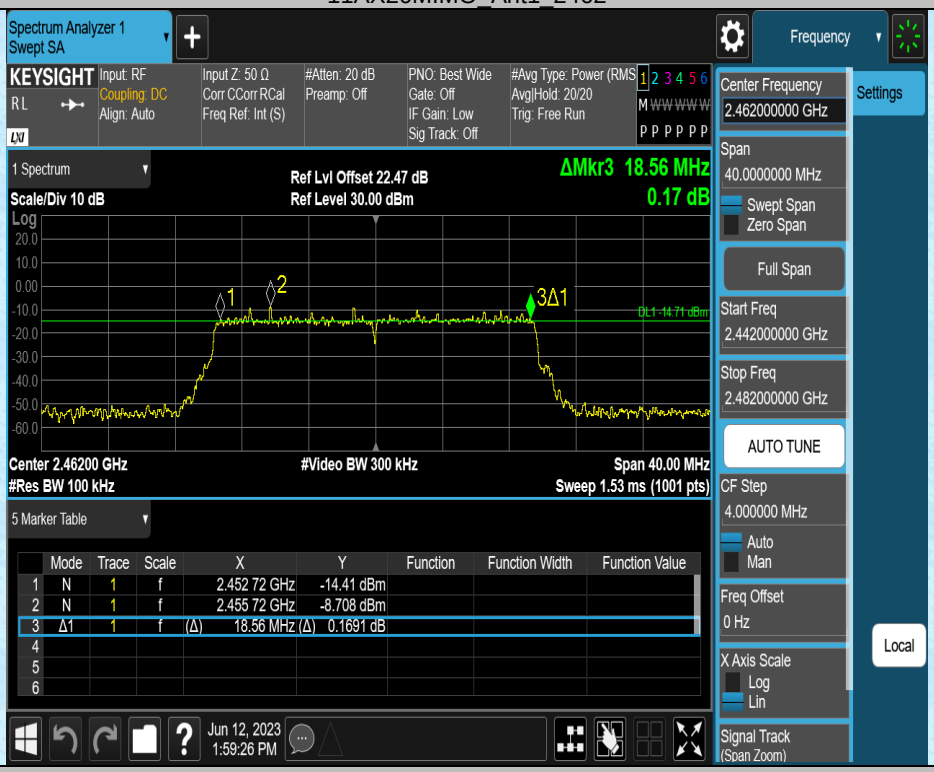


11AX20MIMO_Ant2_2437

11AX20MIMO_Ant1_2462



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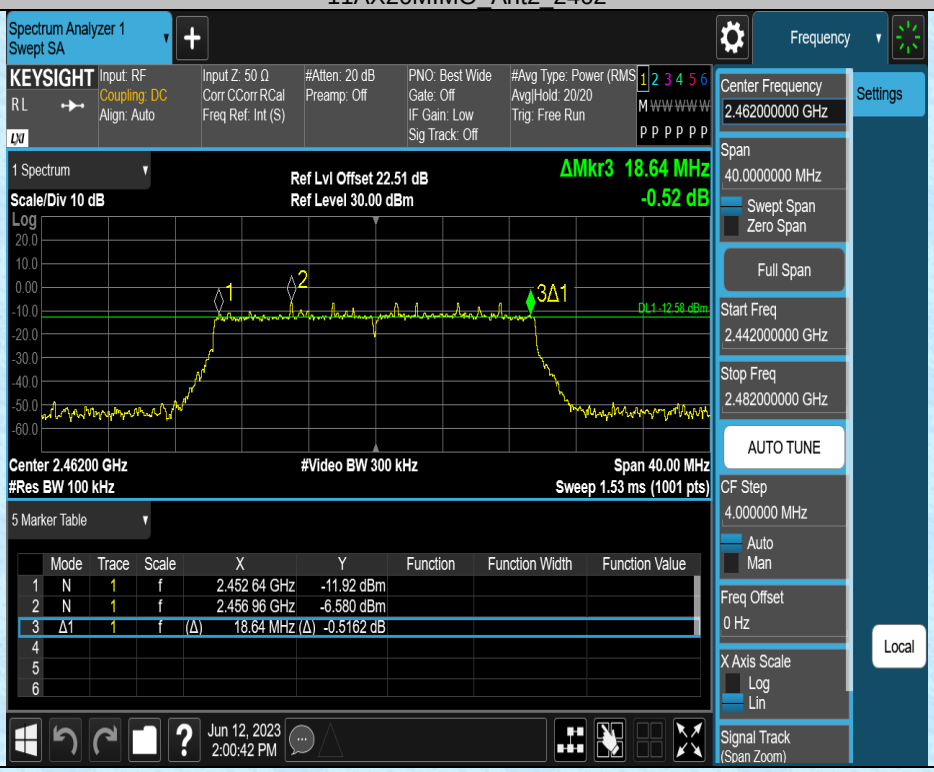

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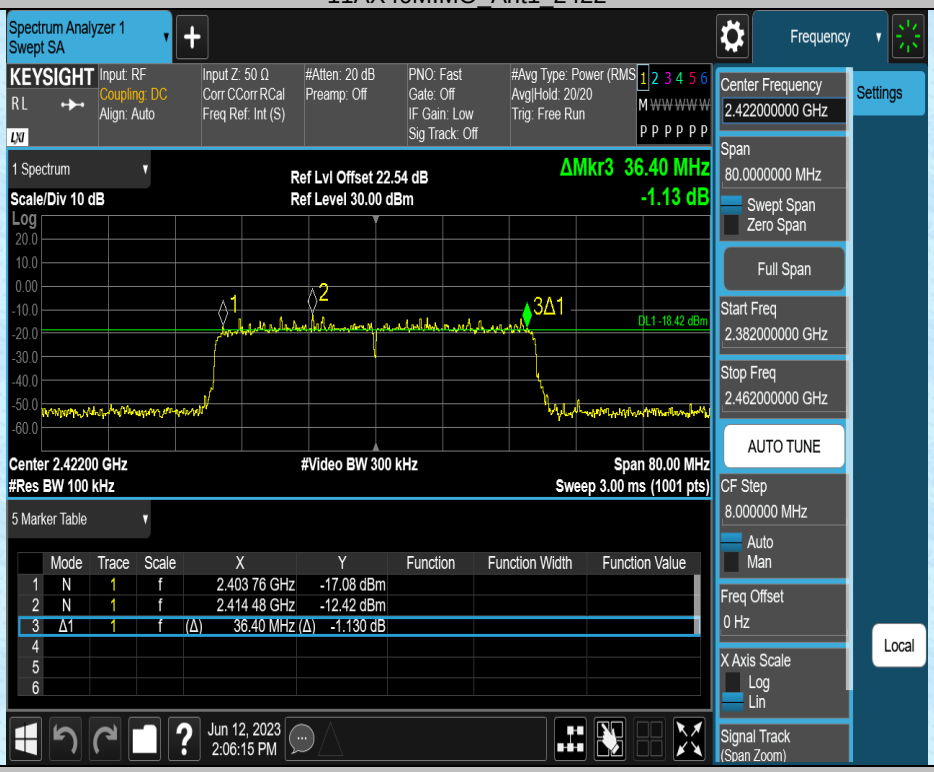

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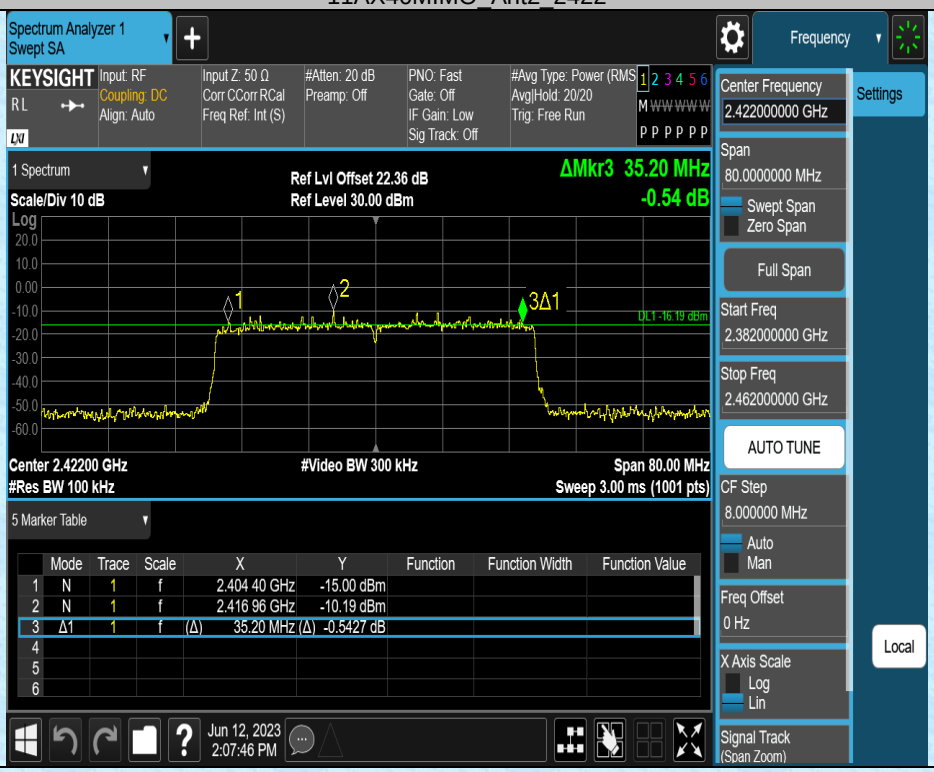

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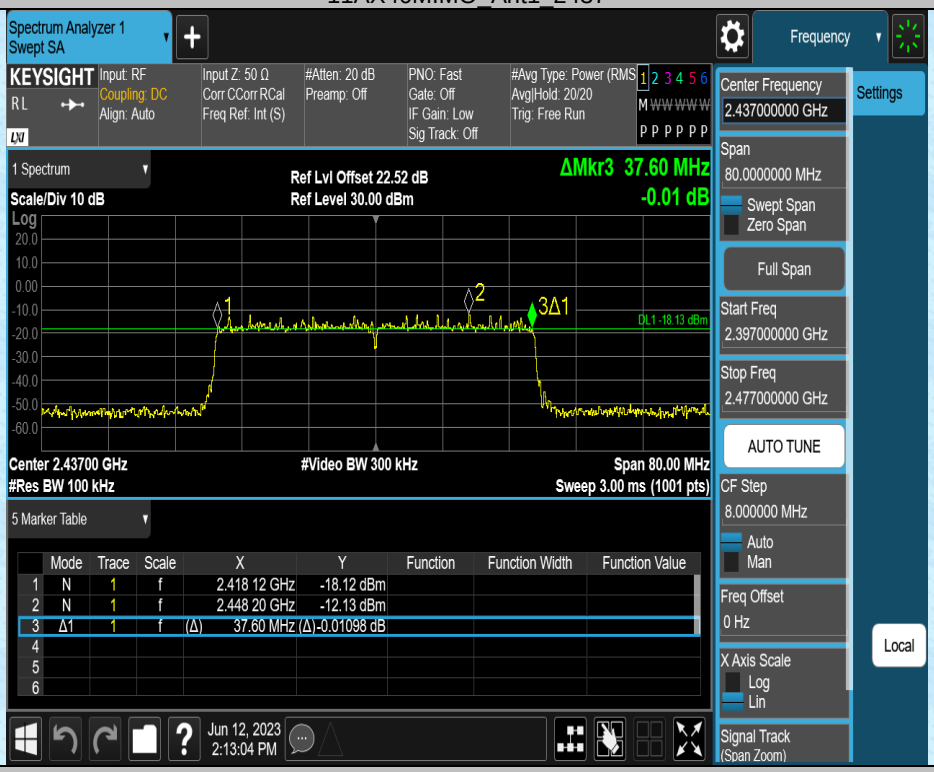

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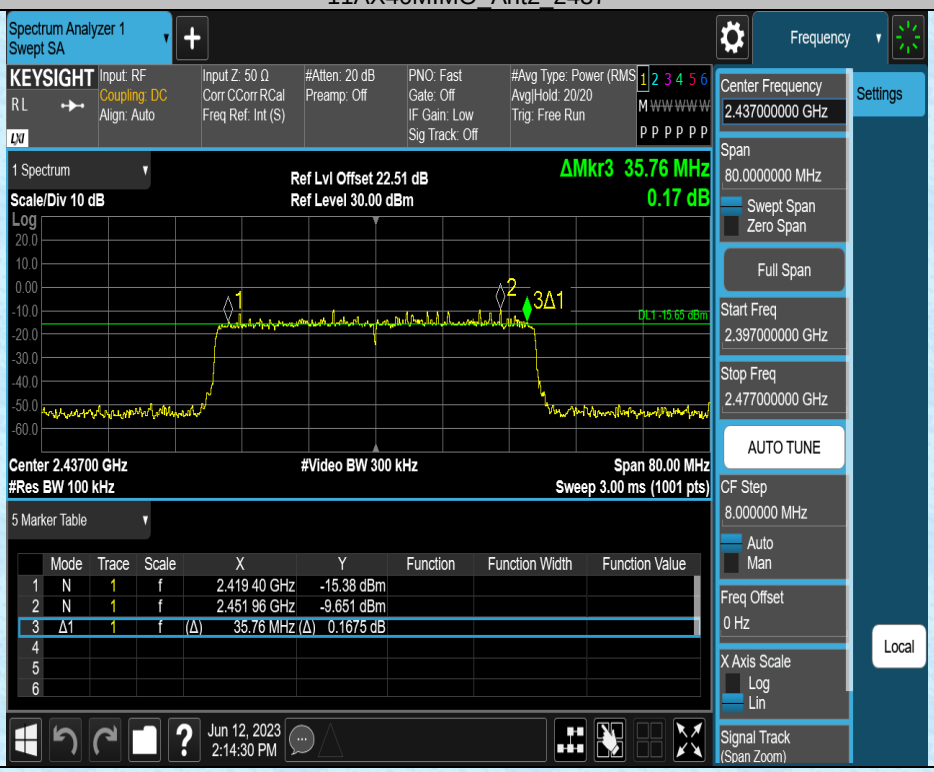

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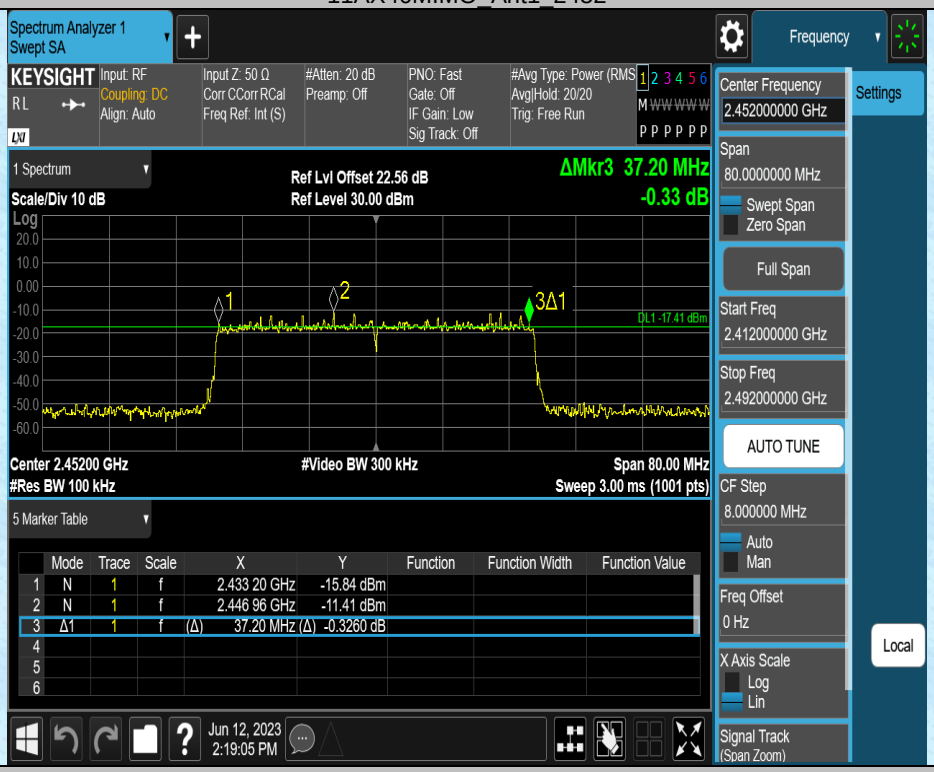

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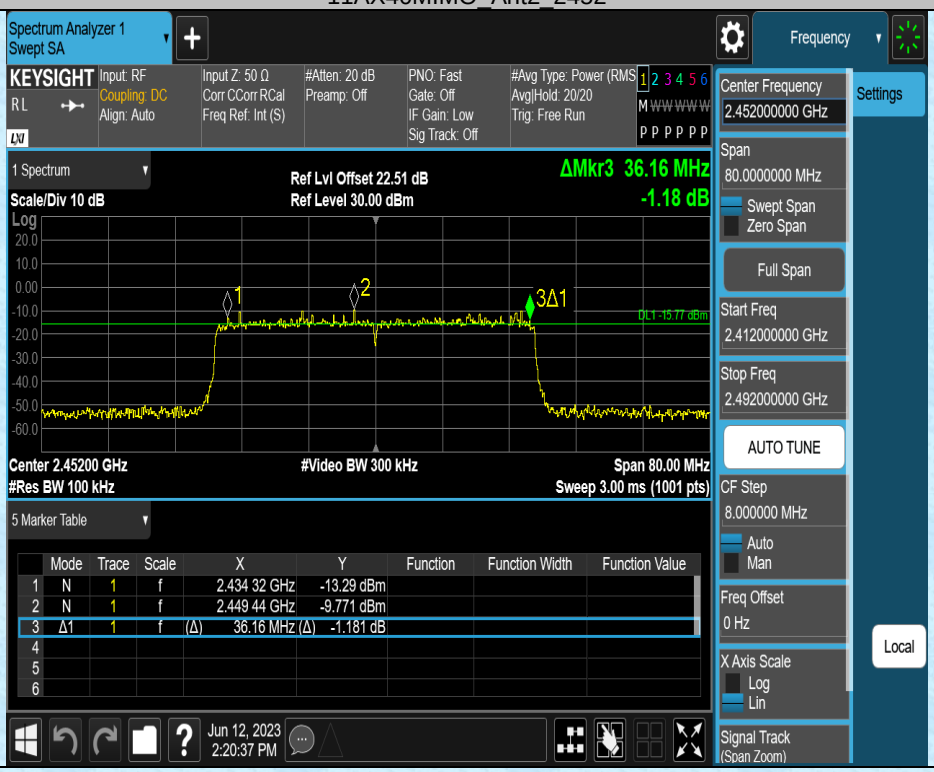
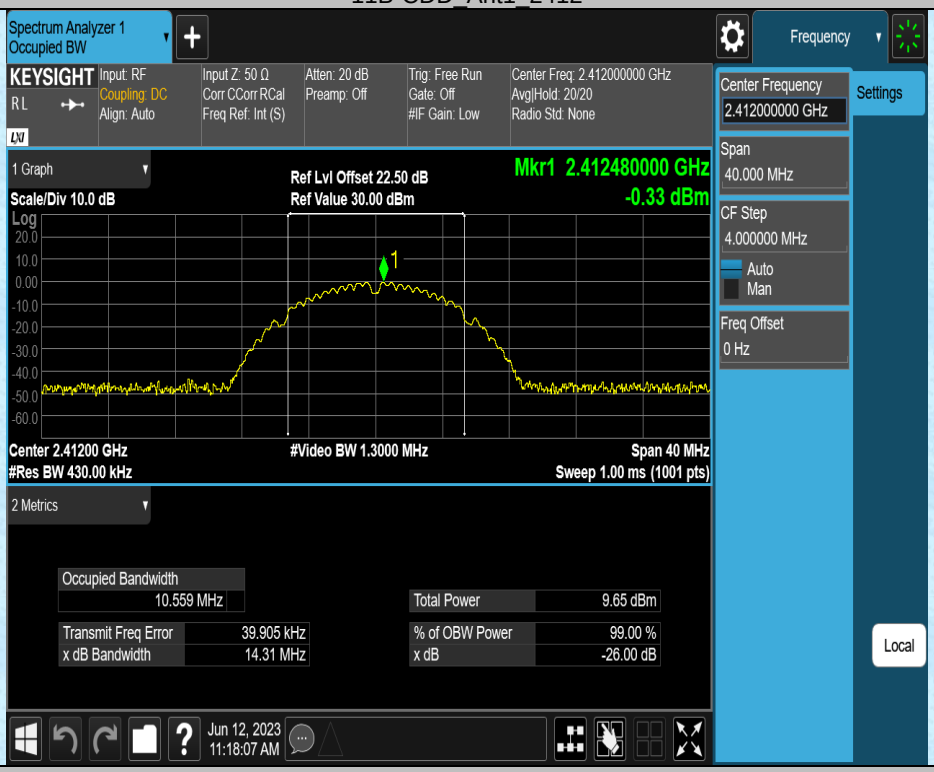


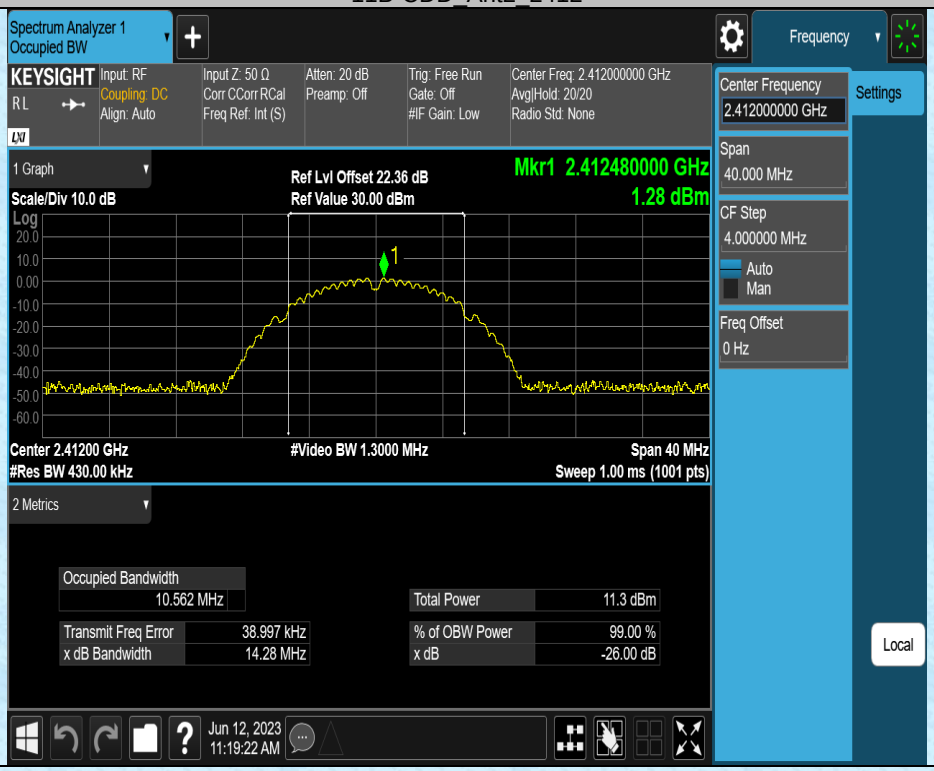
Occupied Channel Bandwidth

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	10.559	2406.7604	2417.3194	---	---
	Ant2	2412	10.562	2406.7580	2417.3200	---	---
	Ant1	2437	10.605	2431.6833	2442.2883	---	---
	Ant2	2437	10.589	2431.6949	2442.2839	---	---
	Ant1	2462	10.607	2456.7016	2467.3086	---	---
	Ant2	2462	10.590	2456.7277	2467.3177	---	---
11G-CDD	Ant1	2412	17.083	2403.6422	2420.7252	---	---
	Ant2	2412	16.693	2403.7152	2420.4082	---	---
	Ant1	2437	17.051	2428.5069	2445.5579	---	---
	Ant2	2437	16.699	2428.6465	2445.3455	---	---
	Ant1	2462	16.962	2453.5920	2470.5540	---	---
	Ant2	2462	16.881	2453.5691	2470.4501	---	---
11N20MIMO	Ant1	2412	17.808	2403.0965	2420.9045	---	---
	Ant2	2412	17.808	2403.1510	2420.9590	---	---
	Ant1	2437	18.145	2427.8948	2446.0398	---	---
	Ant2	2437	18.015	2427.9883	2446.0033	---	---
	Ant1	2462	18.021	2453.0363	2471.0573	---	---
	Ant2	2462	17.894	2453.0779	2470.9719	---	---
11N40MIMO	Ant1	2422	36.226	2403.9047	2440.1307	---	---
	Ant2	2422	36.094	2403.9840	2440.0780	---	---
	Ant1	2437	36.323	2418.8269	2455.1499	---	---
	Ant2	2437	36.332	2418.8411	2455.1731	---	---
	Ant1	2452	36.326	2433.8372	2470.1632	---	---
	Ant2	2452	36.470	2433.7019	2470.1719	---	---
11AX20MIMO	Ant1	2412	19.060	2402.4543	2421.5143	---	---
	Ant2	2412	19.073	2402.4788	2421.5518	---	---
	Ant1	2437	19.137	2427.3751	2446.5121	---	---
	Ant2	2437	19.067	2427.4687	2446.5357	---	---
	Ant1	2462	19.064	2452.4188	2471.4828	---	---
	Ant2	2462	19.100	2452.4019	2471.5019	---	---
11AX40MIMO	Ant1	2422	37.559	2403.2054	2440.7644	---	---
	Ant2	2422	37.563	2403.2917	2440.8547	---	---
	Ant1	2437	37.649	2418.1480	2455.7970	---	---
	Ant2	2437	37.550	2418.2006	2455.7506	---	---
	Ant1	2452	37.598	2433.1690	2470.7670	---	---
	Ant2	2452	37.565	2433.1842	2470.7492	---	---

11B-CDD_Ant1_2412



11B-CDD_Ant2_2412



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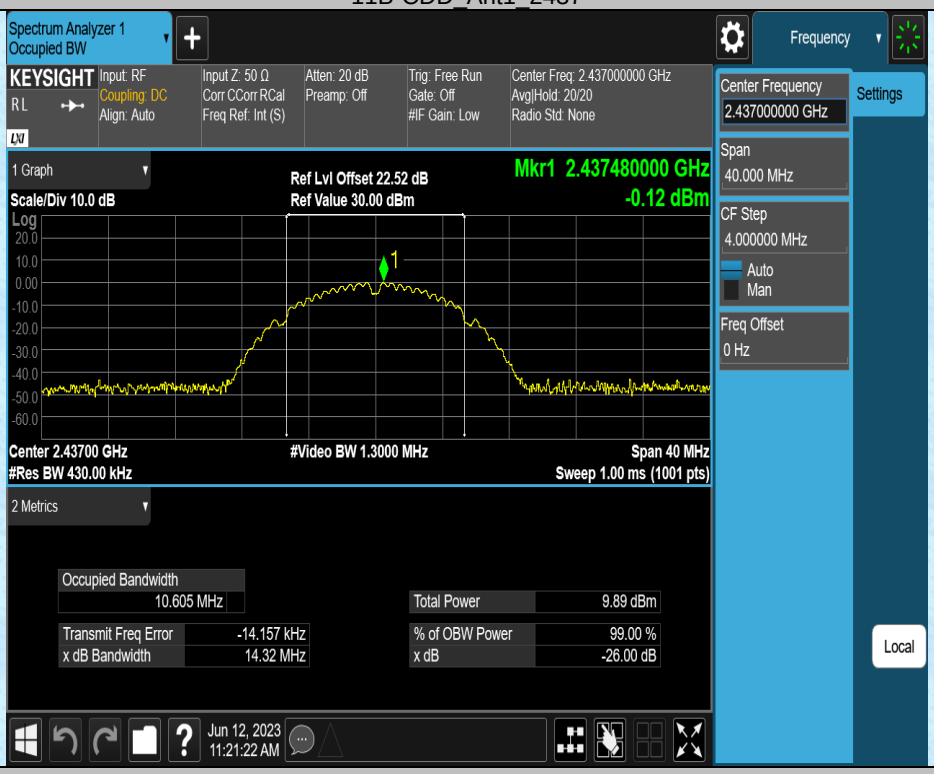

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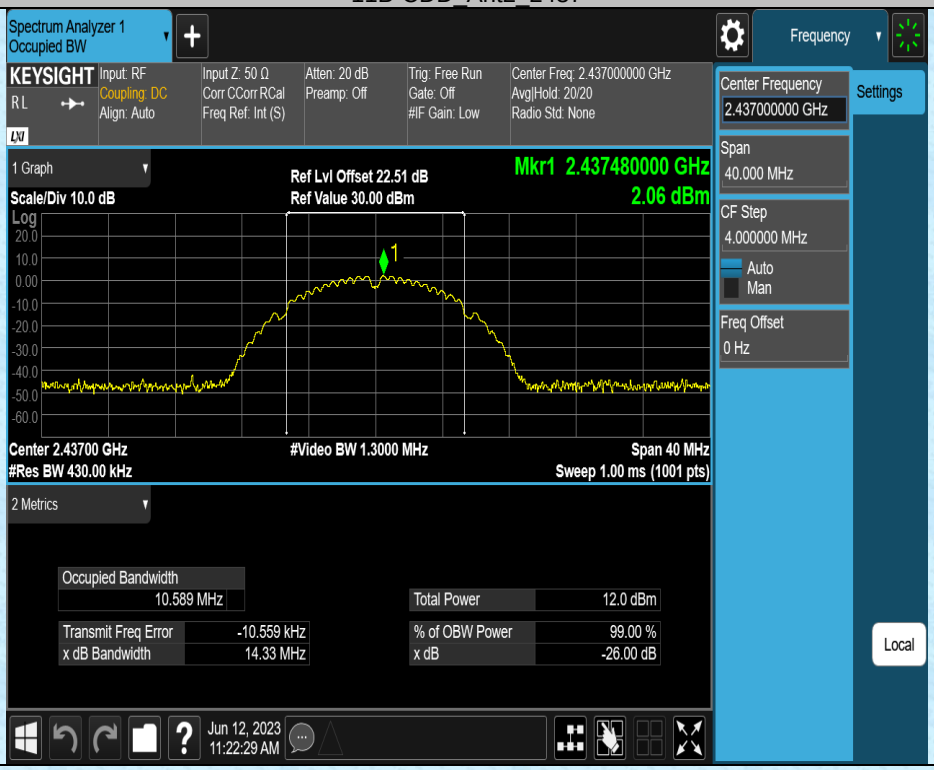

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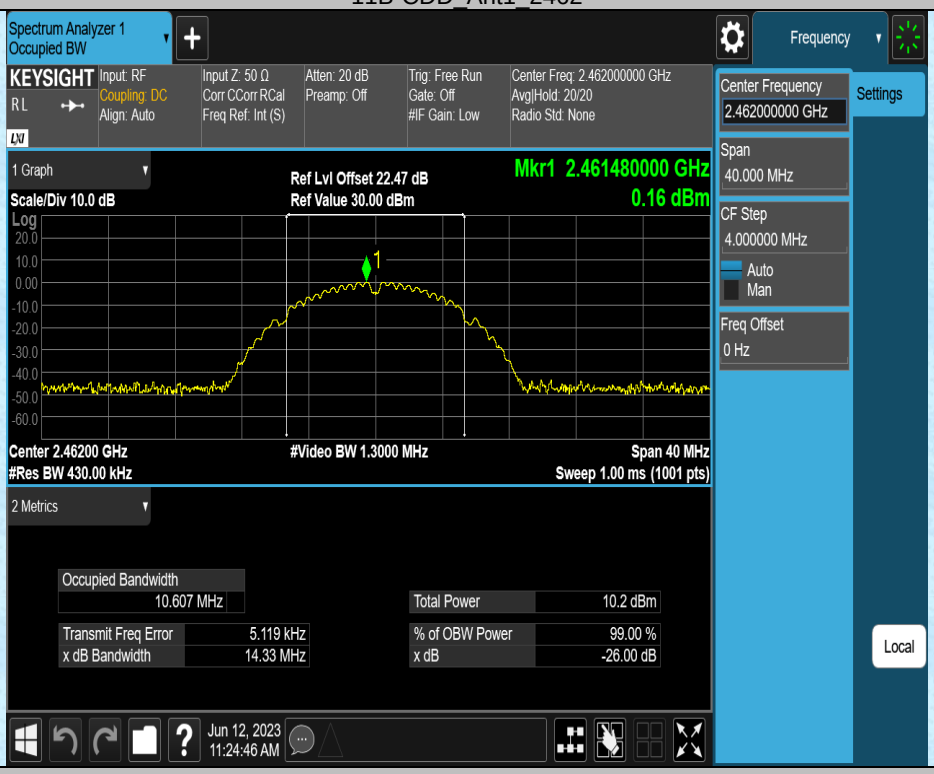

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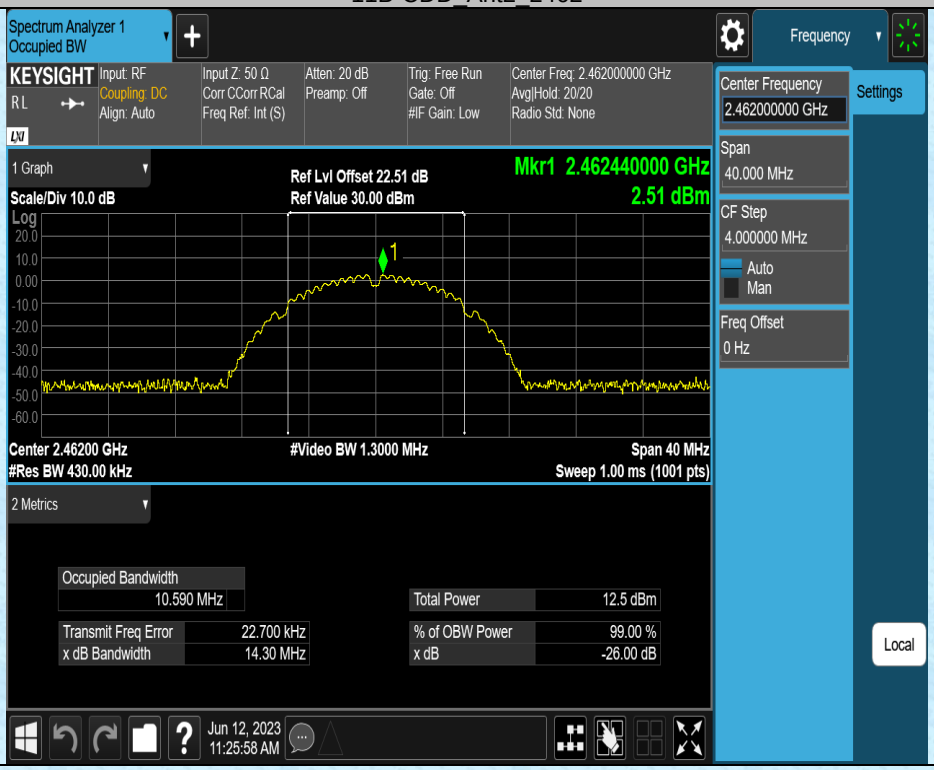

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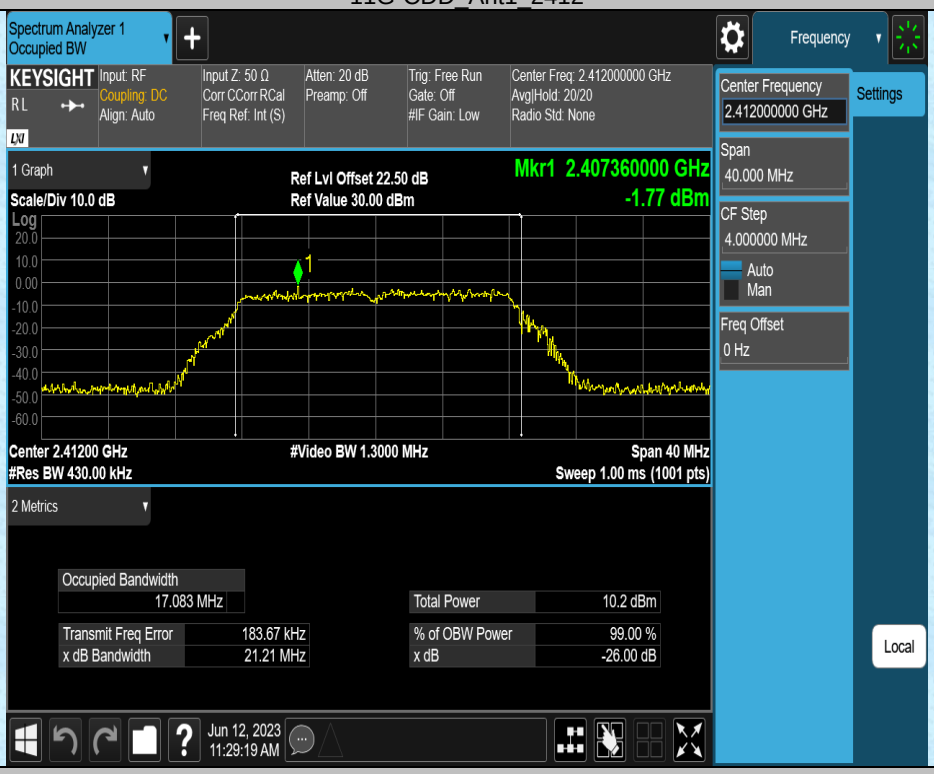

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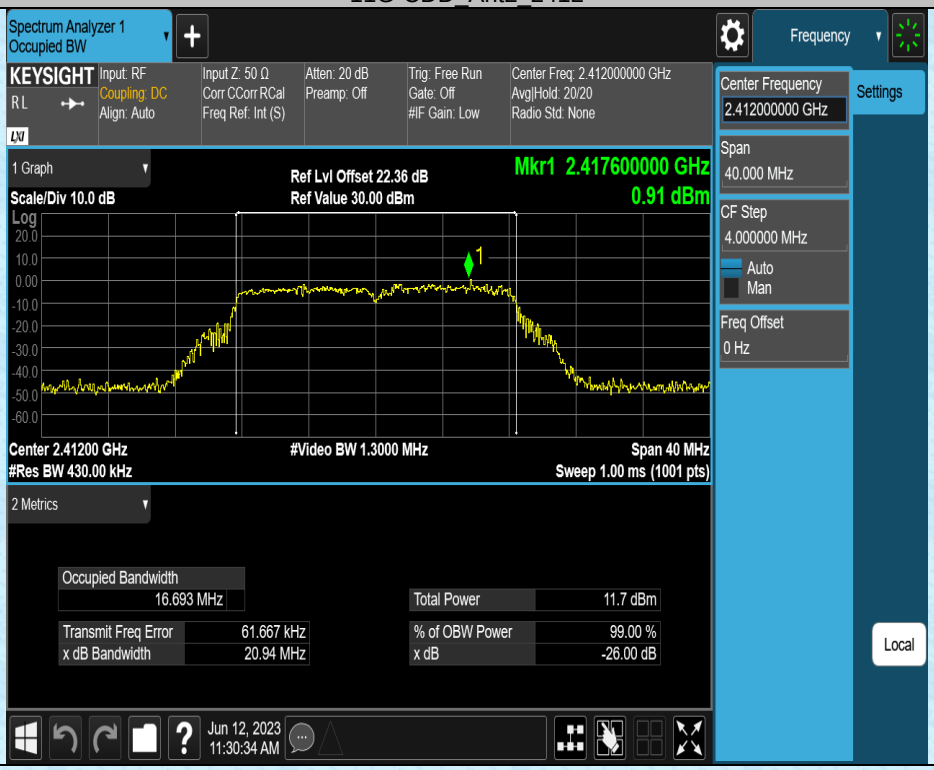

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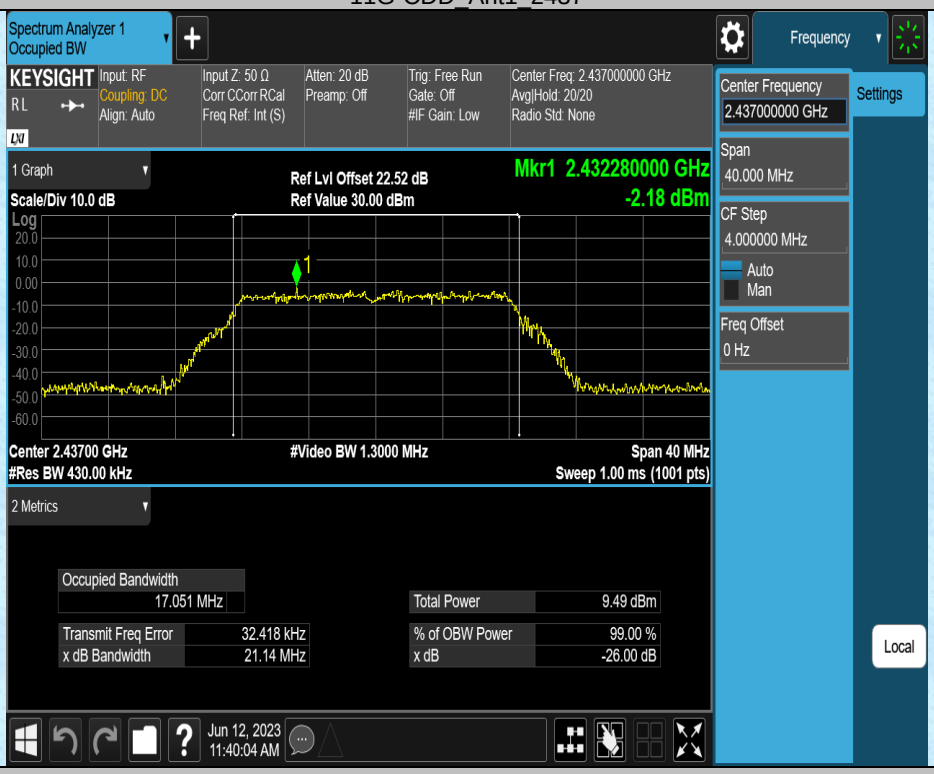

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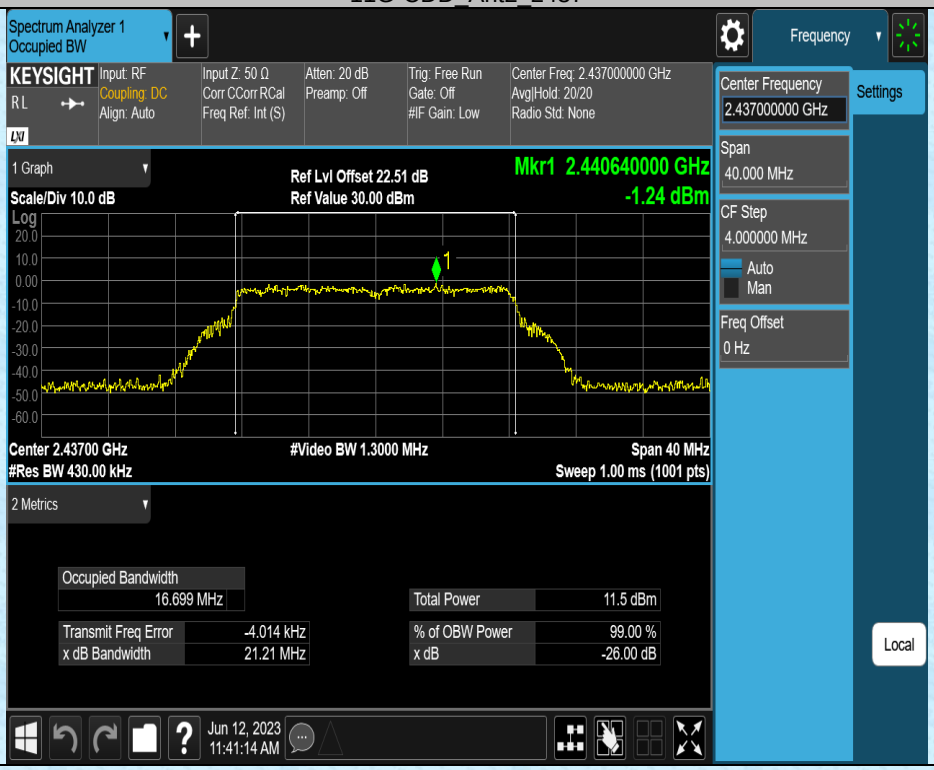

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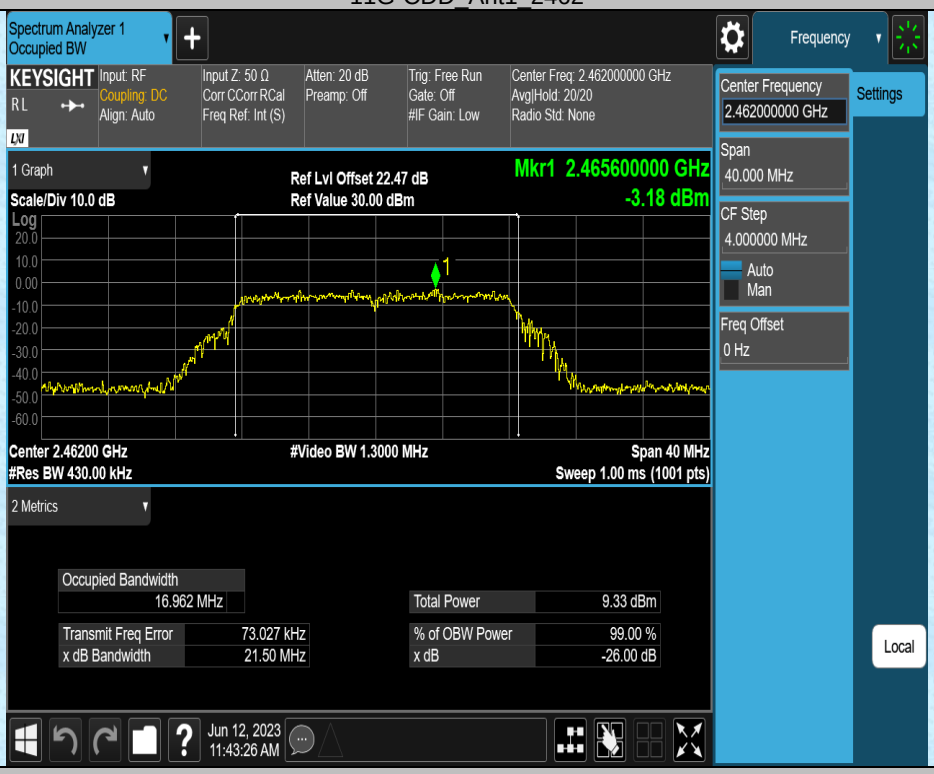

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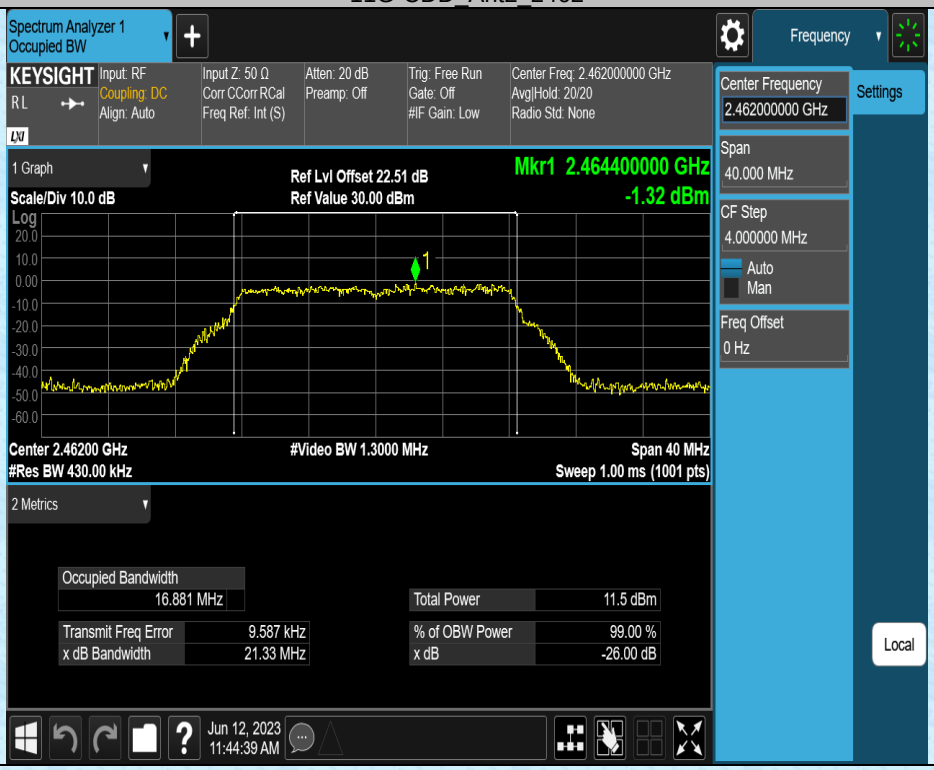

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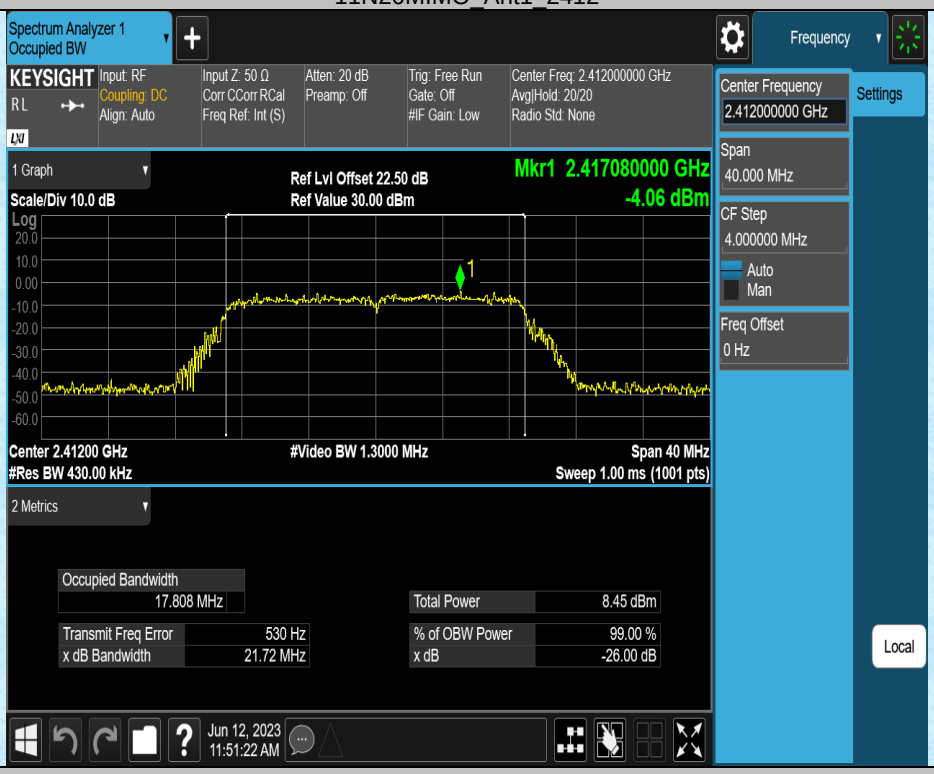

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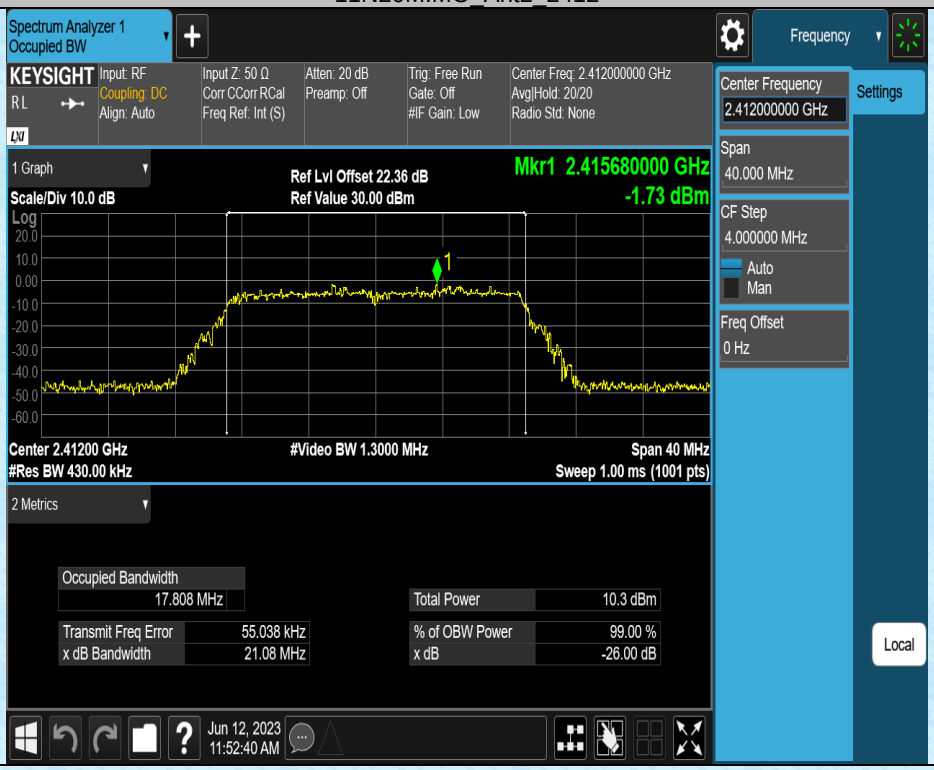

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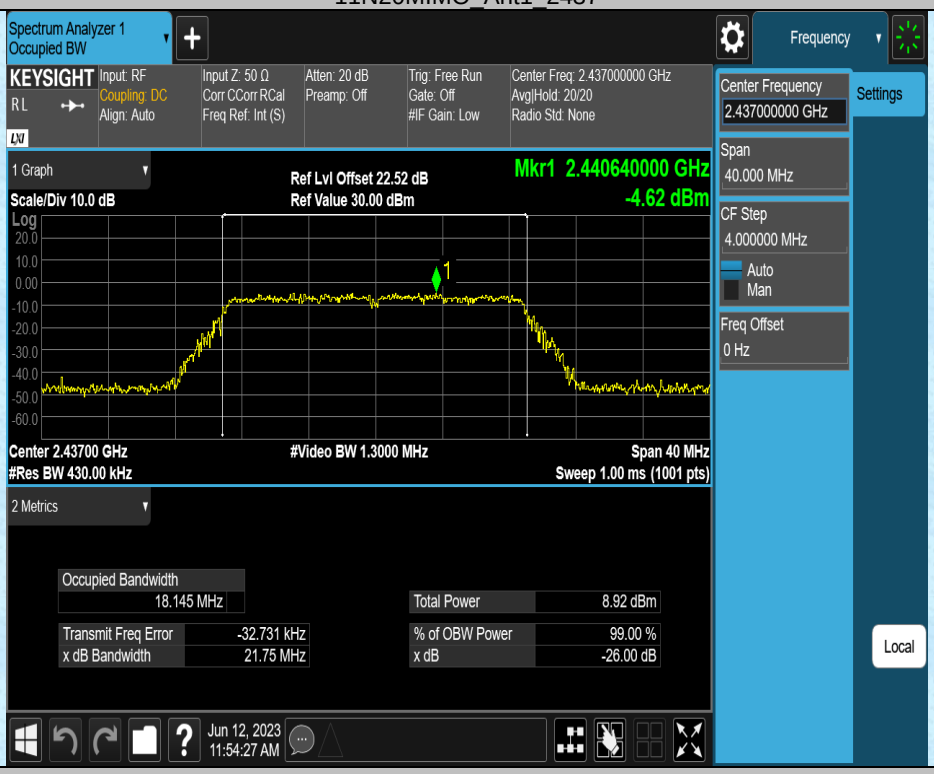

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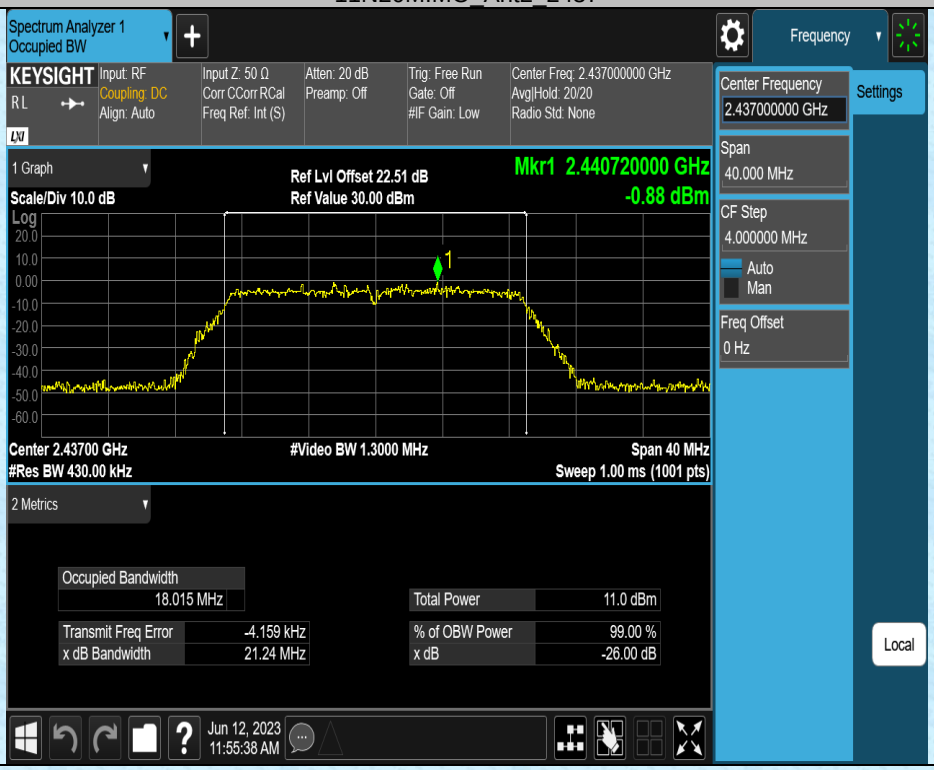

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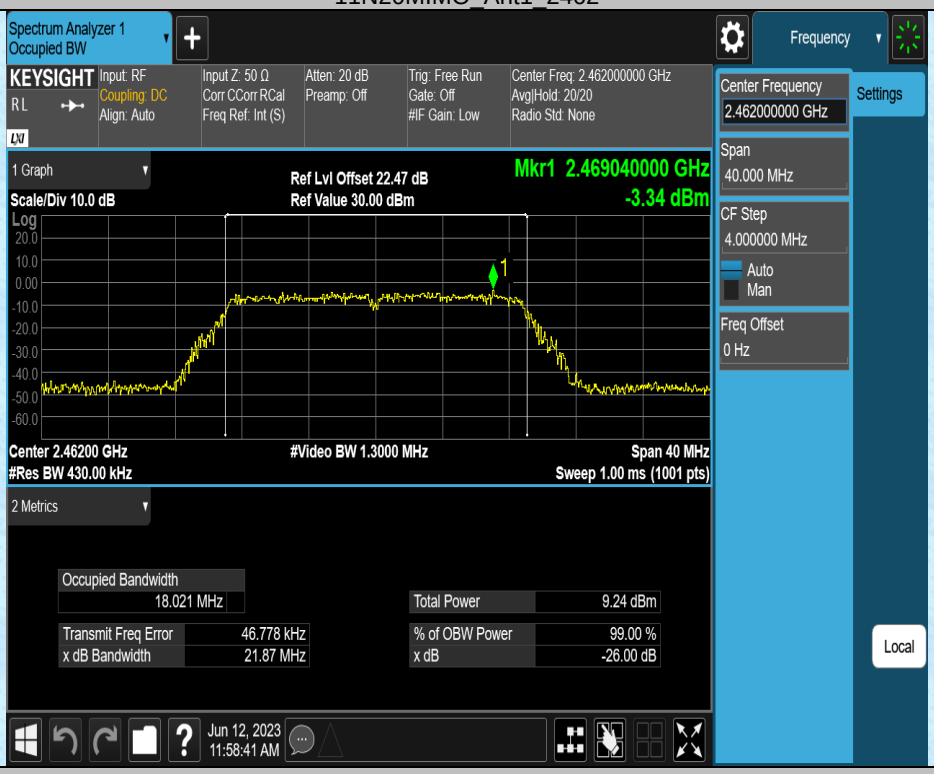

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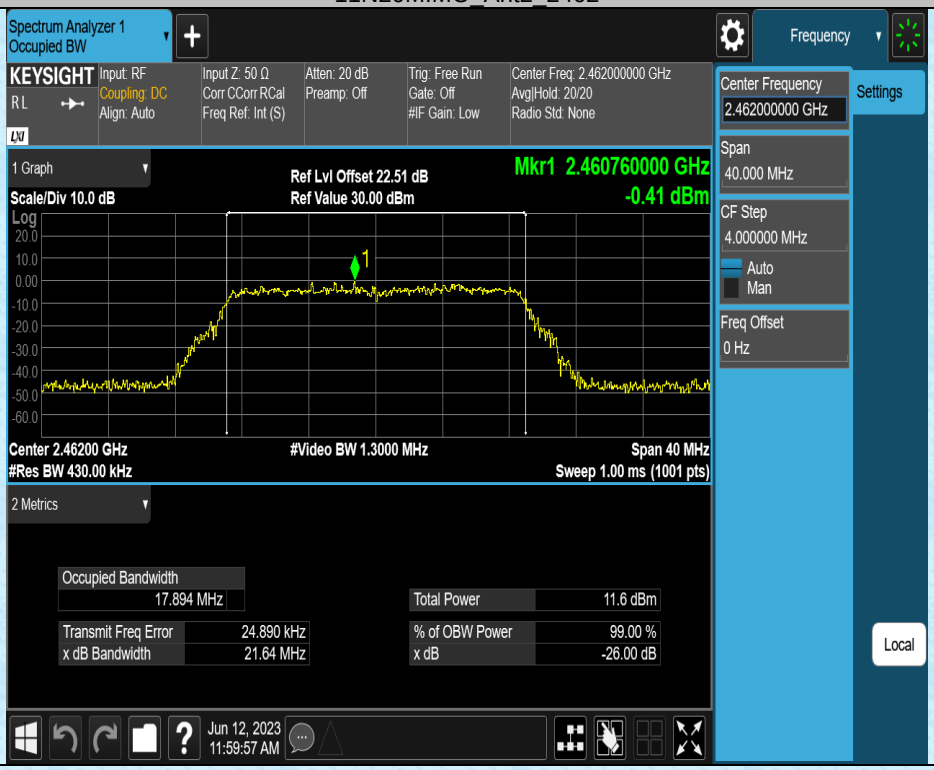

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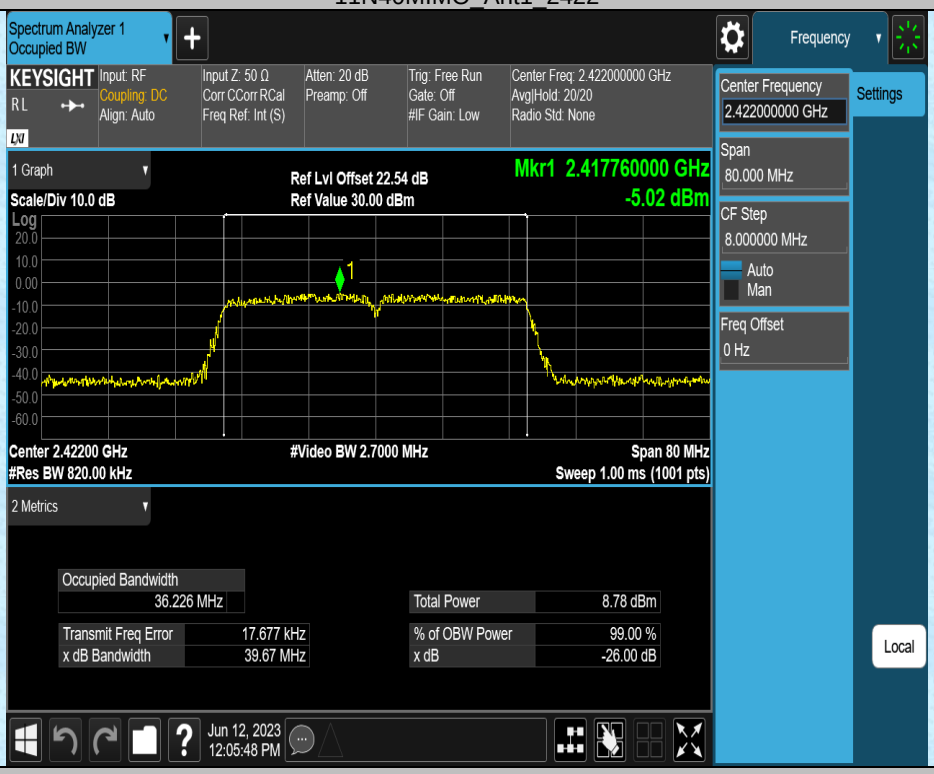

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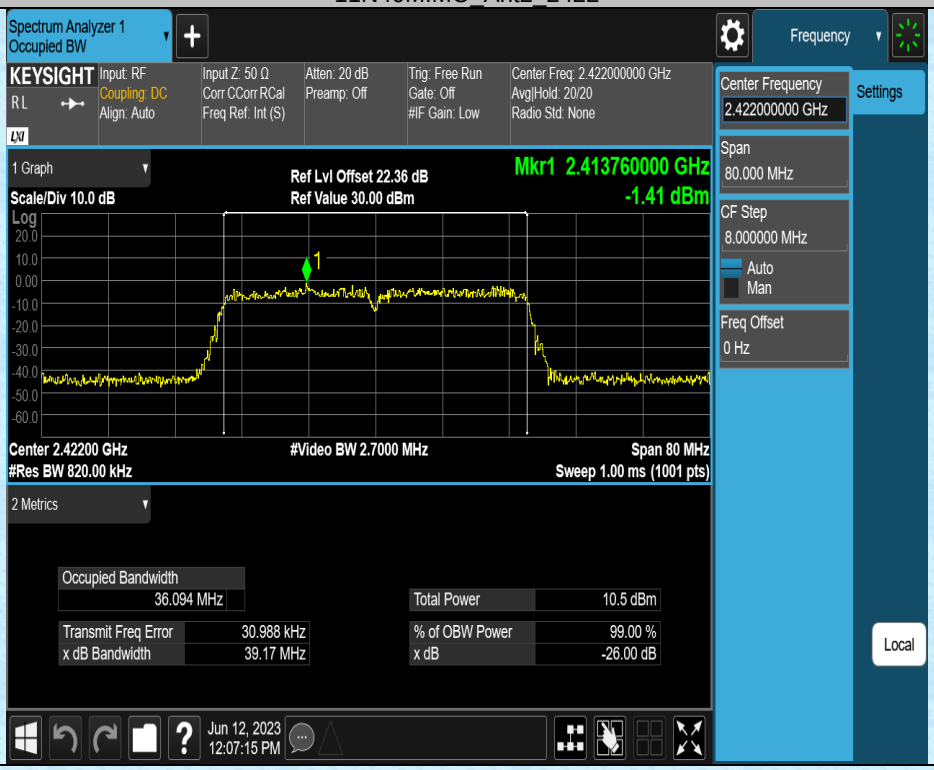

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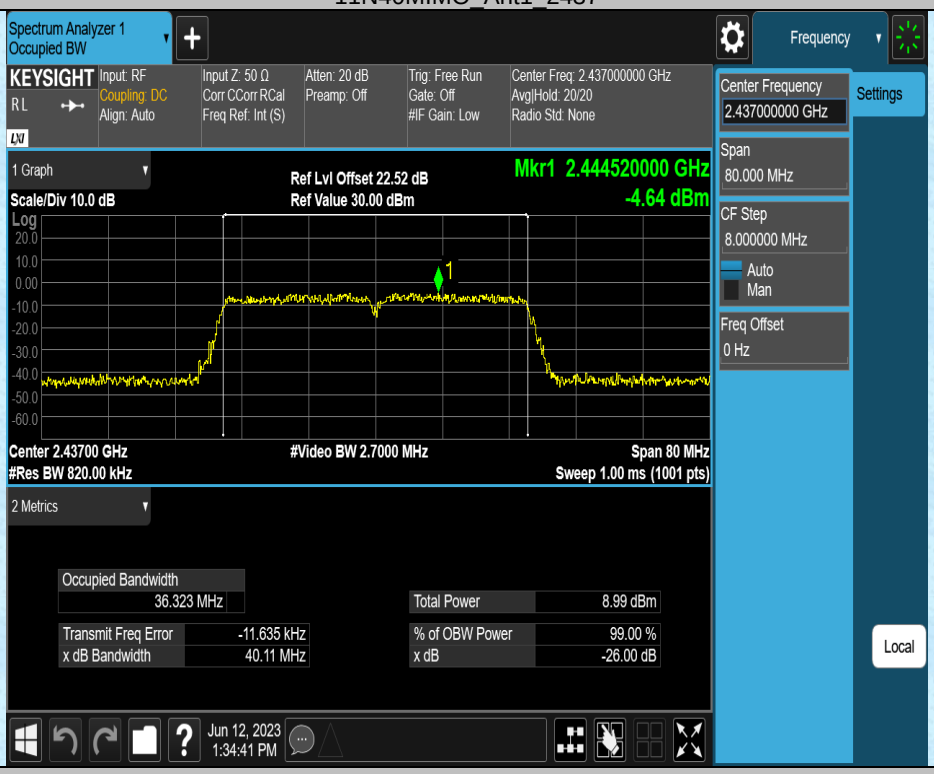

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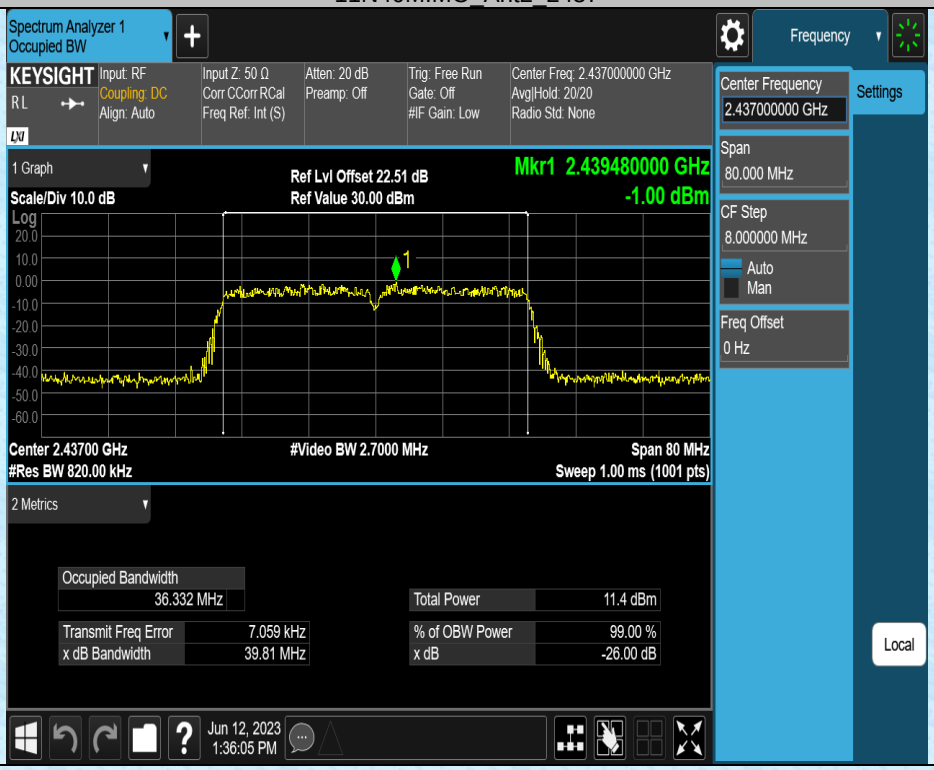

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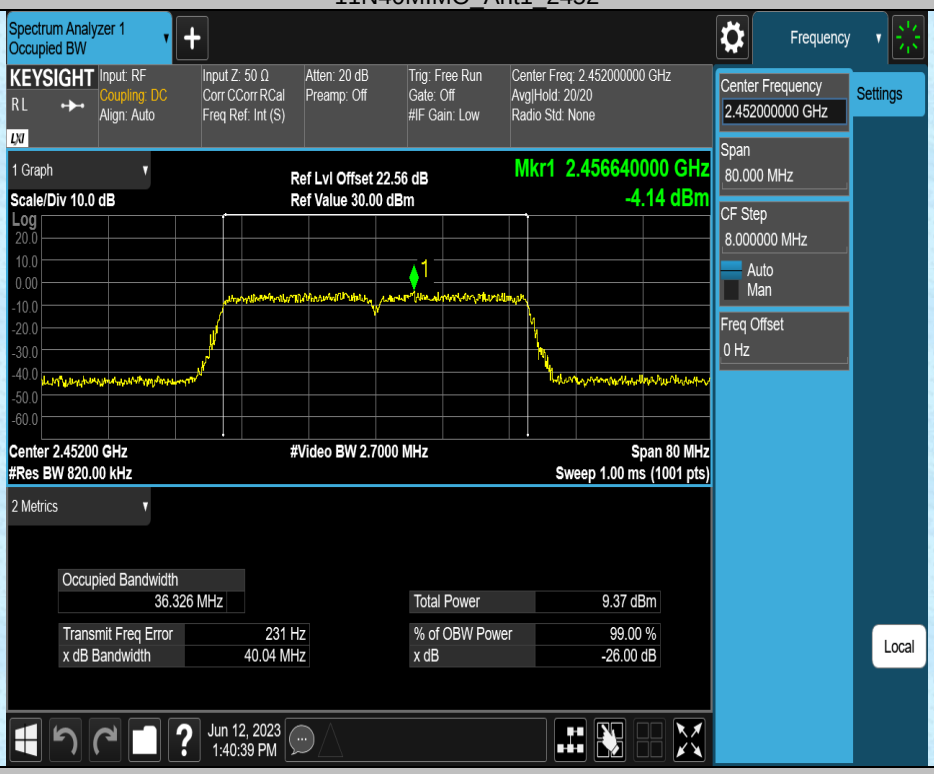

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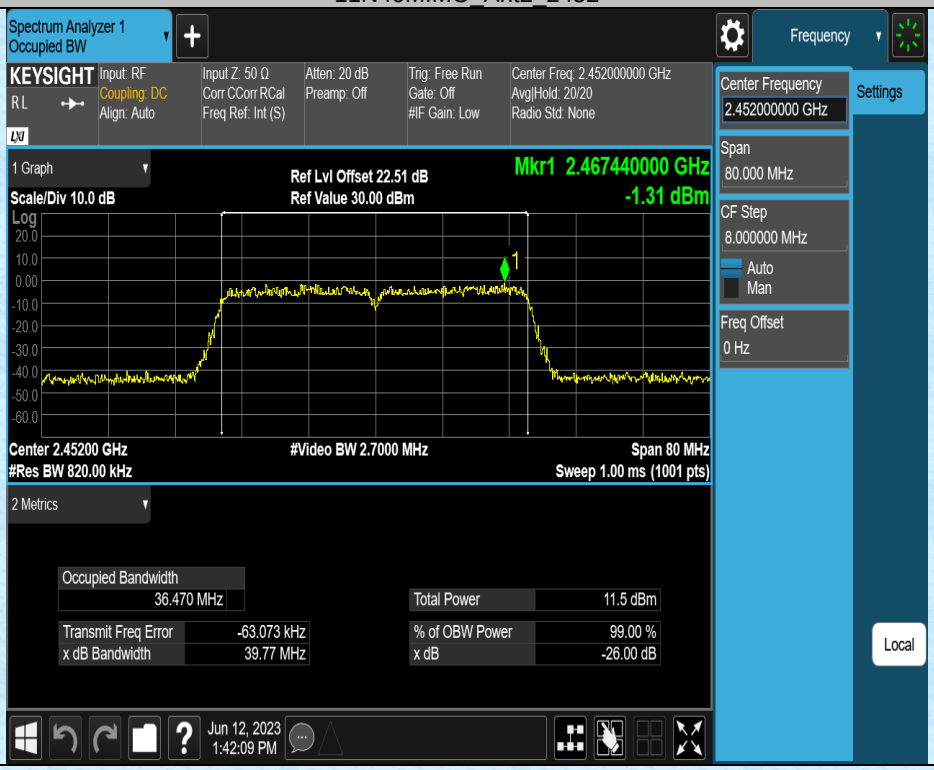

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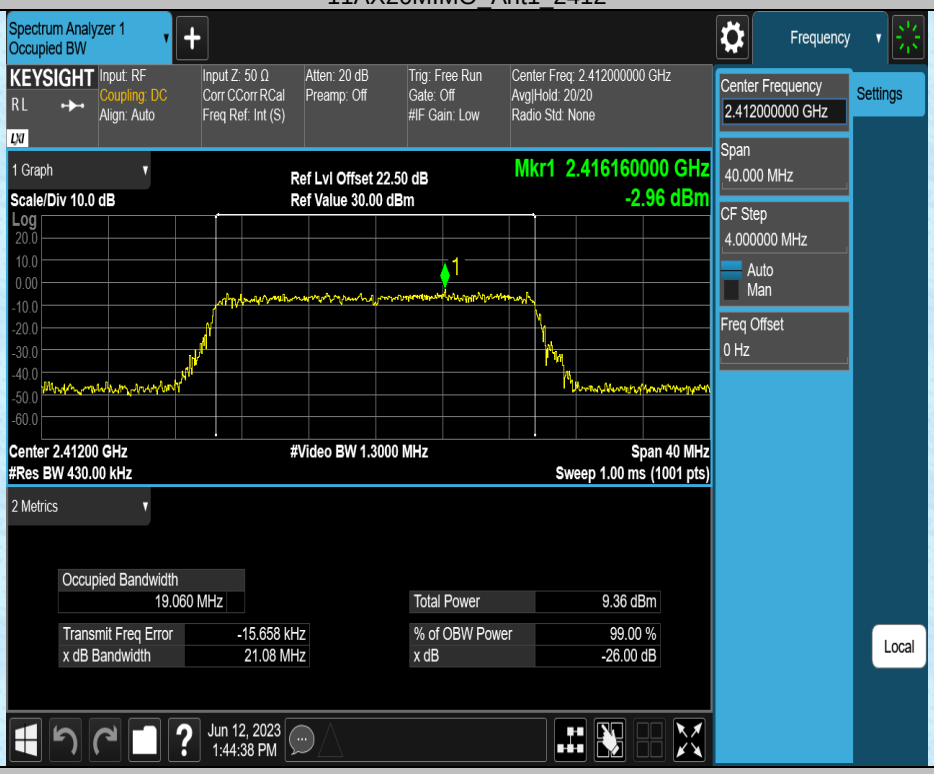

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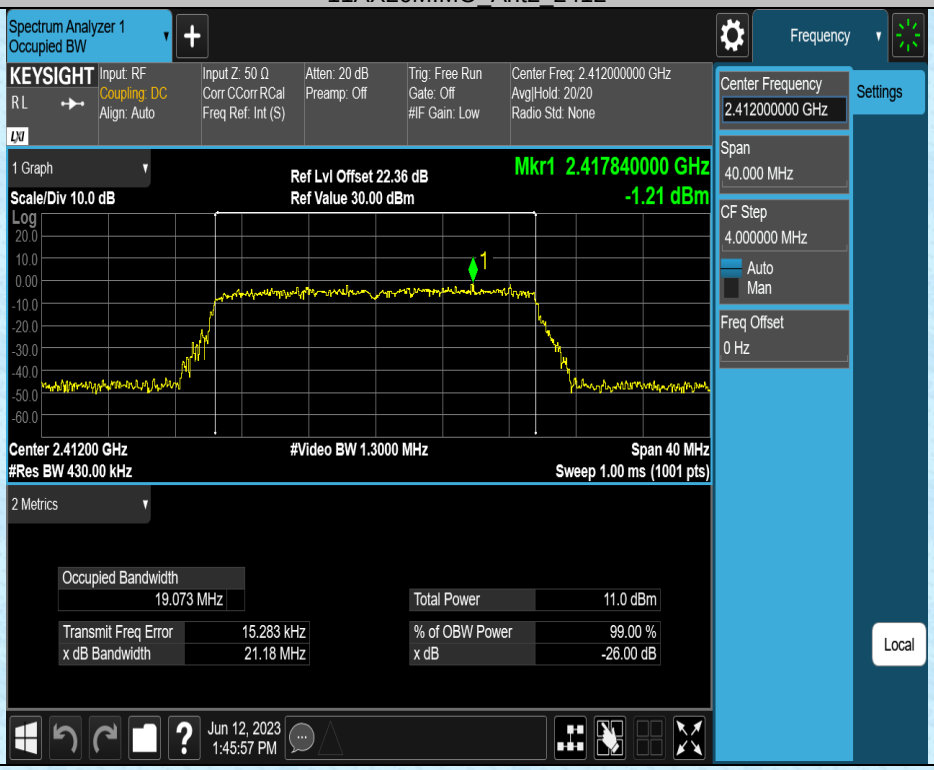

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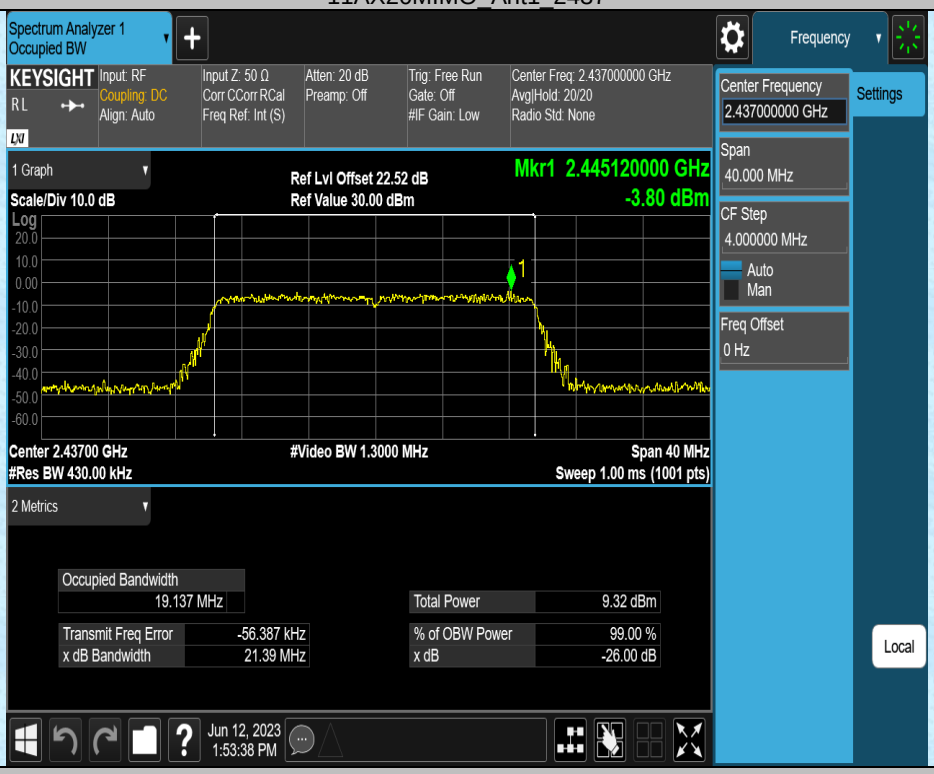

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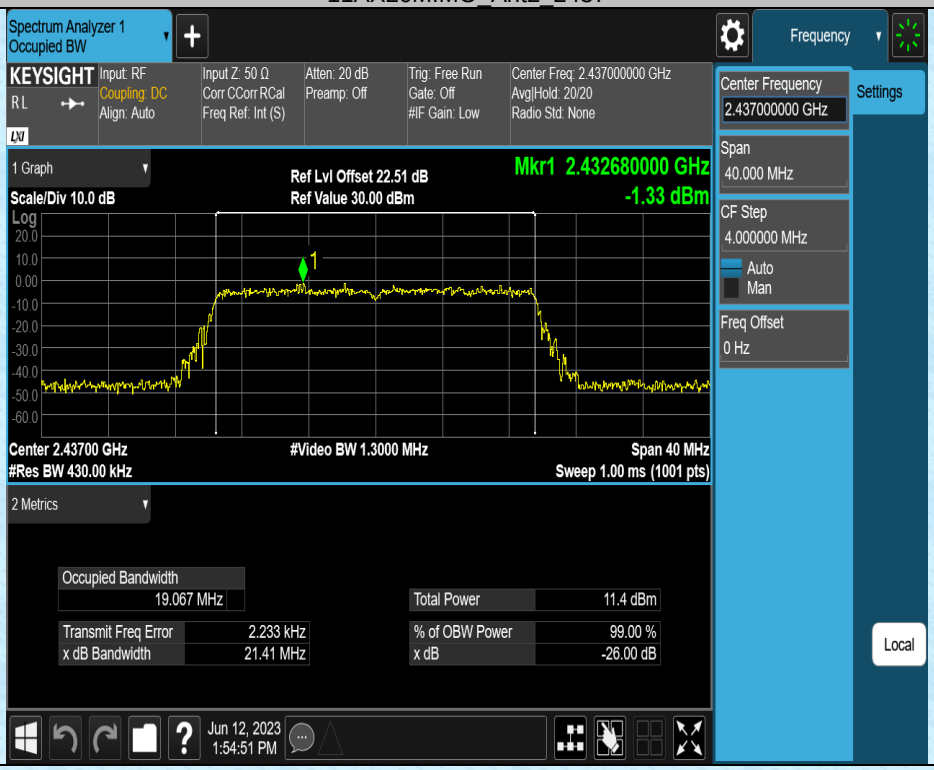

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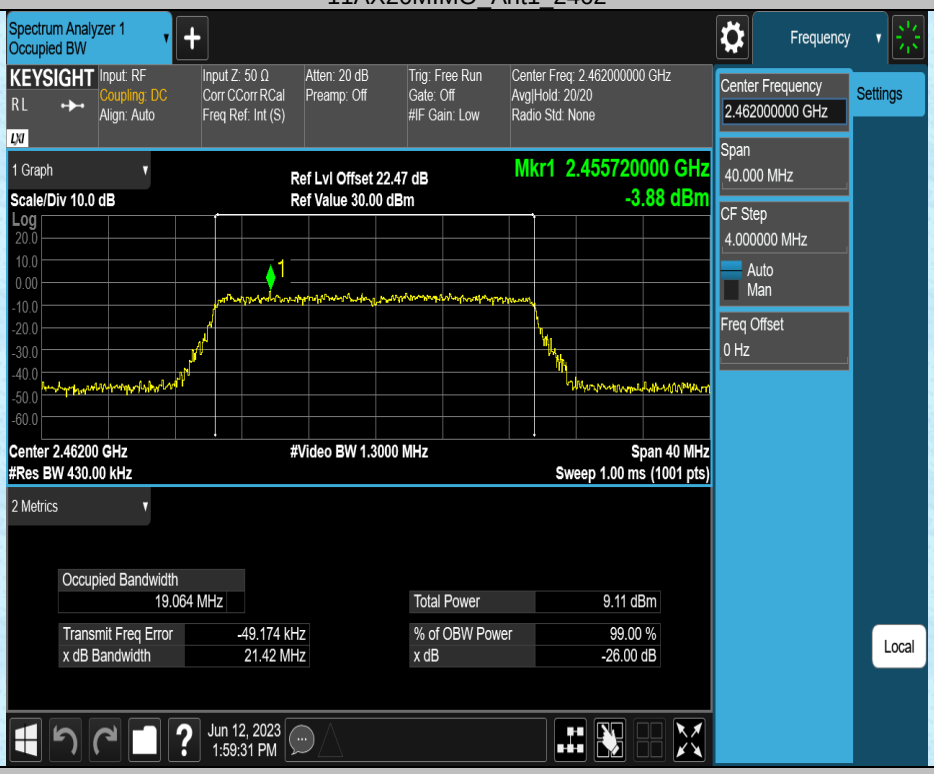

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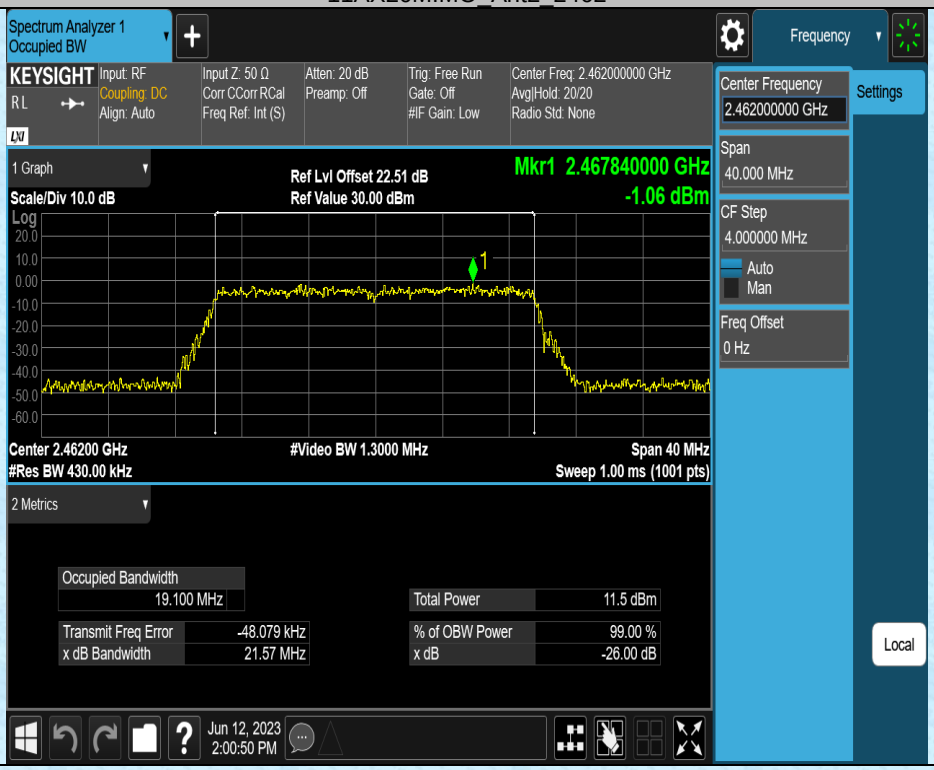

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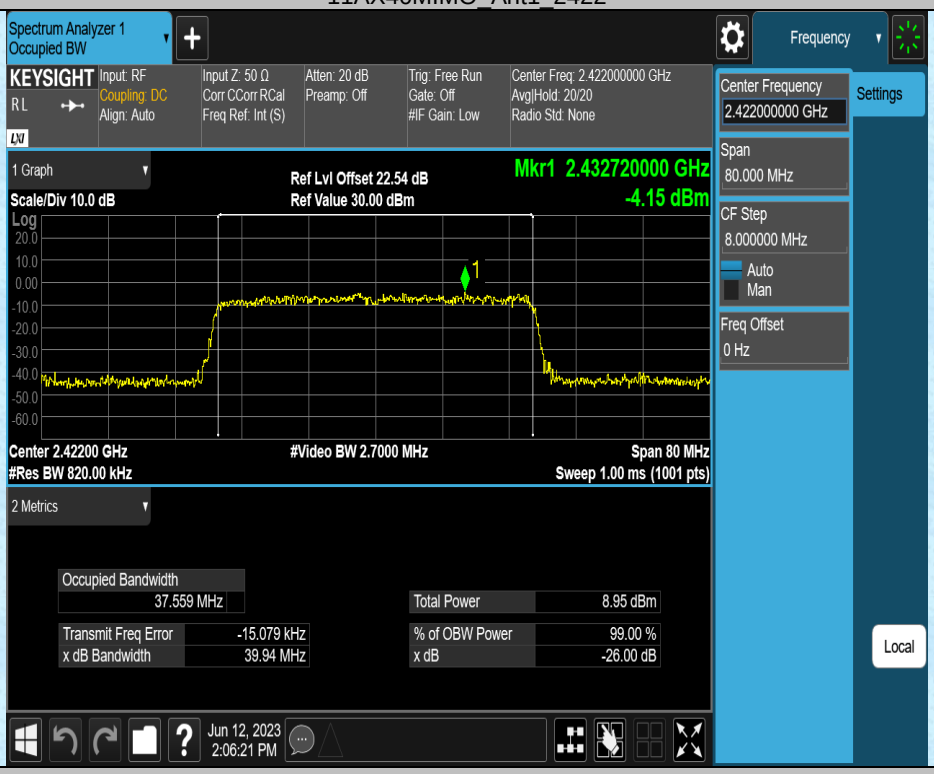
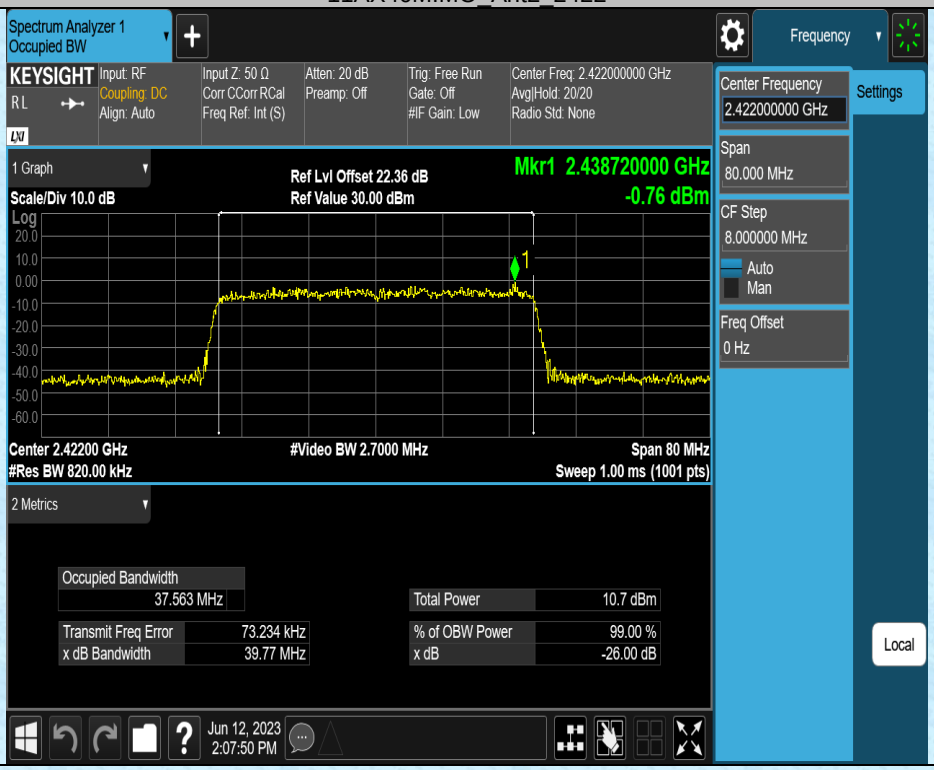
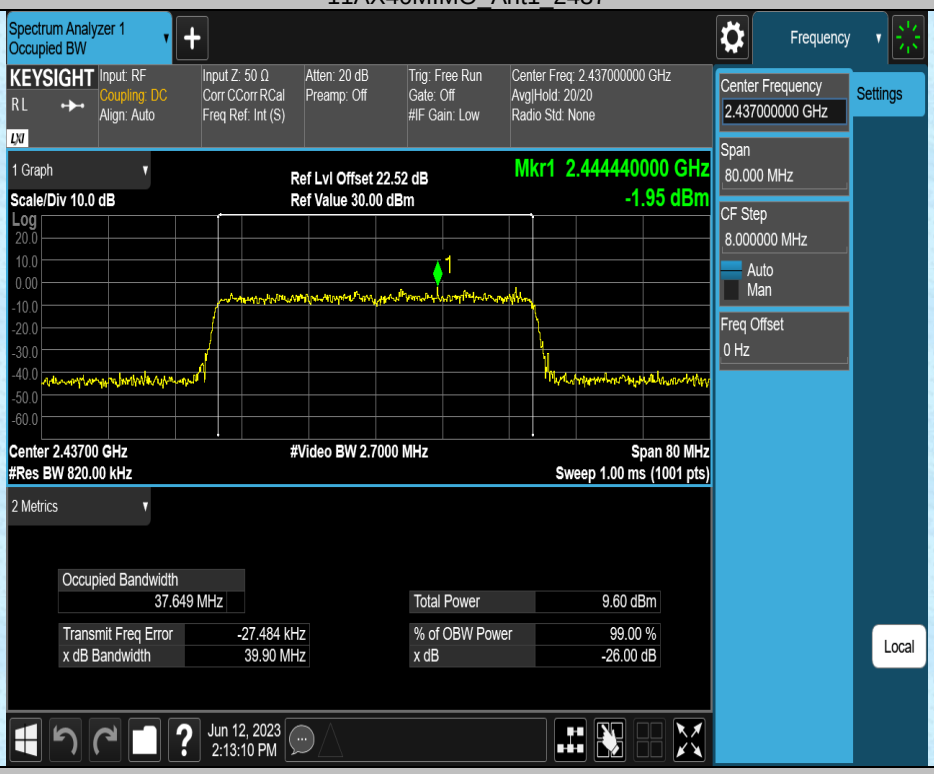


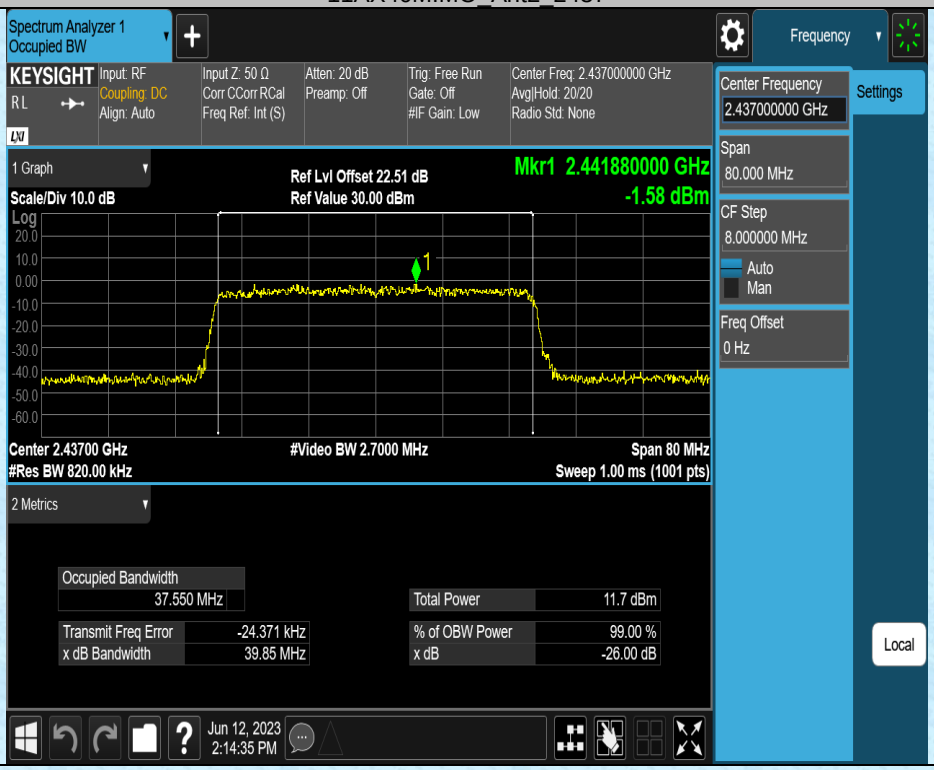
11AX40MIMO_Ant2_2422



11AX40MIMO_Ant1_2437



11AX40MIMO_Ant2_2437



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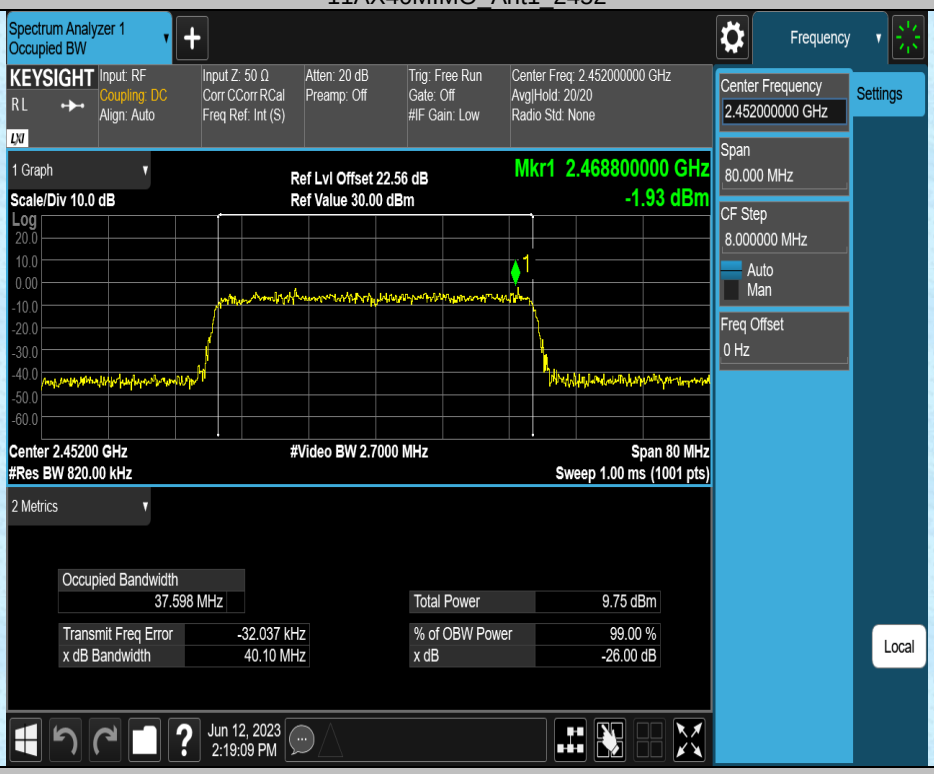
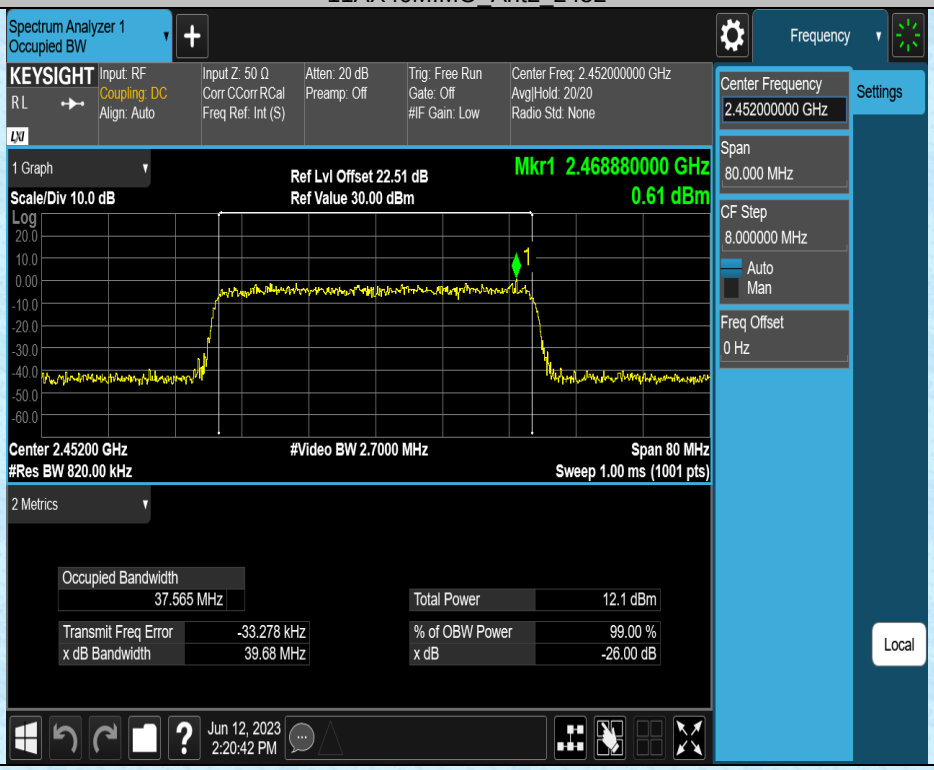
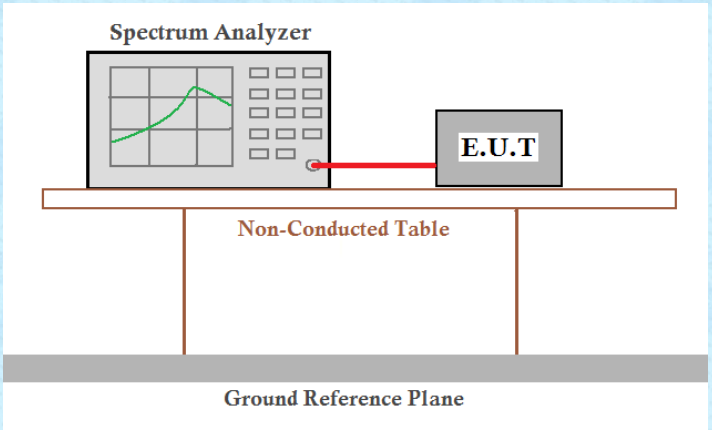


11AX40MIMO_Ant2_2452



7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074 D01 15.247 Meas Guidance v05r02 FCC KDB 662911 D01 Multiple Transmitter Output v02r01
Limit:	8dBm/3kHz
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data:

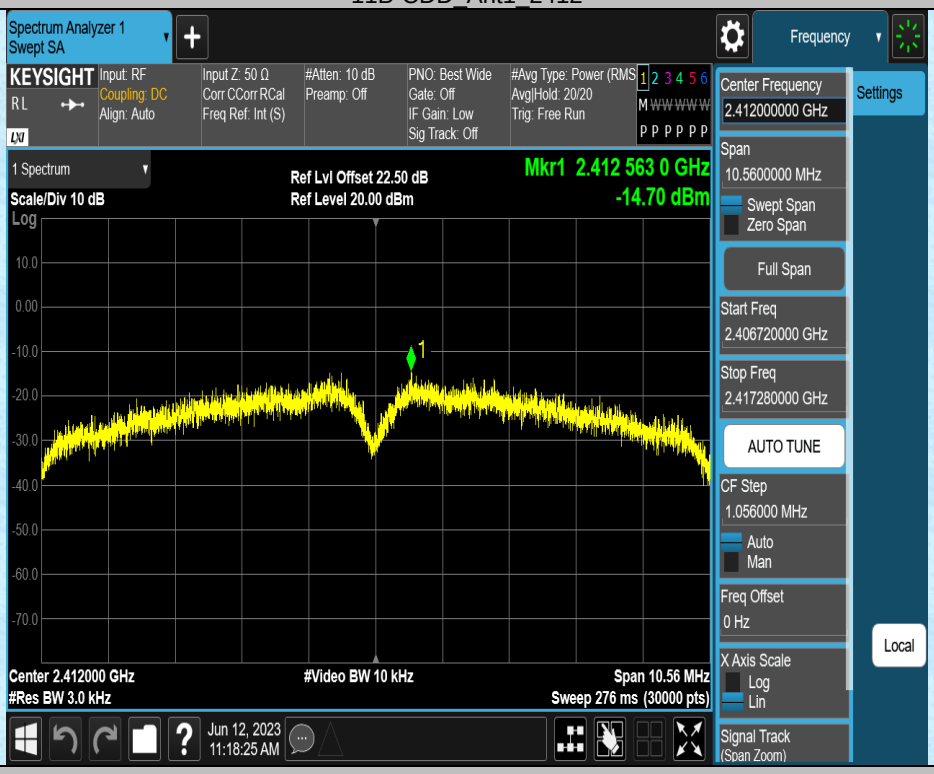
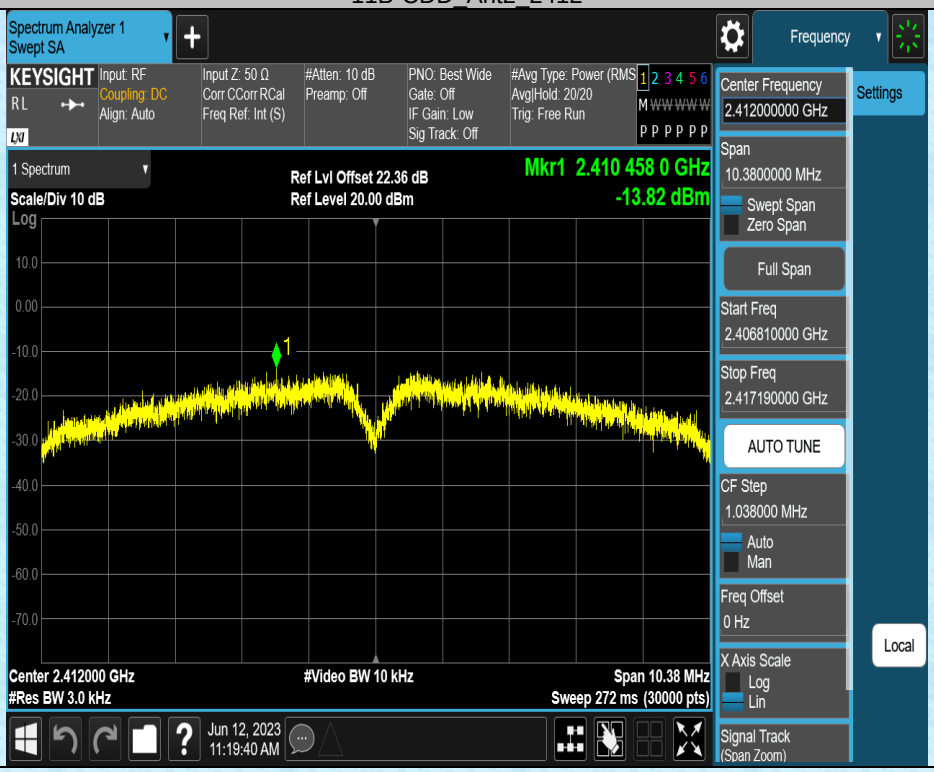
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B-CDD	Ant1	2412	-14.7	≤1.99	PASS
	Ant2	2412	-13.83	≤1.99	PASS
	total	2412	-11.23	≤1.99	PASS
	Ant1	2437	-14.38	≤1.99	PASS
	Ant2	2437	-12.51	≤1.99	PASS
	total	2437	-10.33	≤1.99	PASS
	Ant1	2462	-14.63	≤1.99	PASS
	Ant2	2462	-12.01	≤1.99	PASS
	total	2462	-10.12	≤1.99	PASS
11G-CDD	Ant1	2412	-21.83	≤1.99	PASS
	Ant2	2412	-20.92	≤1.99	PASS
	total	2412	-18.34	≤1.99	PASS
	Ant1	2437	-21.92	≤1.99	PASS
	Ant2	2437	-20.89	≤1.99	PASS
	total	2437	-18.36	≤1.99	PASS
	Ant1	2462	-22.53	≤1.99	PASS
	Ant2	2462	-20.69	≤1.99	PASS
	total	2462	-18.50	≤1.99	PASS
11N20MIMO	Ant1	2412	-22.02	≤1.99	PASS
	Ant2	2412	-21.34	≤1.99	PASS
	total	2412	-18.66	≤1.99	PASS
	Ant1	2437	-23.12	≤1.99	PASS
	Ant2	2437	-20.44	≤1.99	PASS

	total	2437	-18.57	≤1.99	PASS
	Ant1	2462	-23.13	≤1.99	PASS
	Ant2	2462	-21.07	≤1.99	PASS
	total	2462	-18.97	≤1.99	PASS
11N40MIMO	Ant1	2422	-26.7	≤1.99	PASS
	Ant2	2422	-24.09	≤1.99	PASS
	total	2422	-22.19	≤1.99	PASS
	Ant1	2437	-26.72	≤1.99	PASS
	Ant2	2437	-24.3	≤1.99	PASS
	total	2437	-22.33	≤1.99	PASS
	Ant1	2452	-25.98	≤1.99	PASS
	Ant2	2452	-22.6	≤1.99	PASS
	total	2452	-20.96	≤1.99	PASS
11AX20MIMO	Ant1	2412	-22.81	≤1.99	PASS
	Ant2	2412	-21.46	≤1.99	PASS
	total	2412	-19.07	≤1.99	PASS
	Ant1	2437	-23.3	≤1.99	PASS
	Ant2	2437	-21.2	≤1.99	PASS
	total	2437	-19.11	≤1.99	PASS
	Ant1	2462	-23.81	≤1.99	PASS
	Ant2	2462	-20.78	≤1.99	PASS
	total	2462	-19.03	≤1.99	PASS
11AX40MIMO	Ant1	2422	-26.35	≤1.99	PASS
	Ant2	2422	-24.07	≤1.99	PASS
	total	2422	-22.05	≤1.99	PASS
	Ant1	2437	-25.59	≤1.99	PASS
	Ant2	2437	-24.27	≤1.99	PASS
	total	2437	-21.87	≤1.99	PASS
	Ant1	2452	-26.08	≤1.99	PASS
	Ant2	2452	-24.02	≤1.99	PASS
	total	2452	-21.92	≤1.99	PASS

Frequency[MHz]	ANT 1 Antenna Gain (dBi)	ANT 2 Antenna Gain (dBi)	Correlated chains directional gain (dBi)	Peak Power Limit (dBm)
2412-2462	9	9	12.01	1.99
Unequal antenna gains, with equal transmit powers. For antenna gains given by G_1, G_2, …, G_N dBi If transmit signals are correlated, then Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}$] dBi [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]				
2412-2462: Directional gain = 10log[$(10^{9/20} + 10^{9/20})^2/N_{ANT}$] dBi=12.01				

Note: Beamforming conducted power less than no beamforming conducted power, so only no beamforming conducted power spectral density was recored.

11B-CDD_Ant1_2412



11B-CDD_Ant2_2412