

11AX20MIMO_Ant1_2462_1000~26500



11AX20MIMO_Ant2_2462_0~Reference



11AX20MIMO_Ant2_2462_30~1000



11AX20MIMO_Ant2_2462_1000~26500



11AX40MIMO_Ant1_2422_0~Reference



11AX40MIMO_Ant1_2422_30~1000



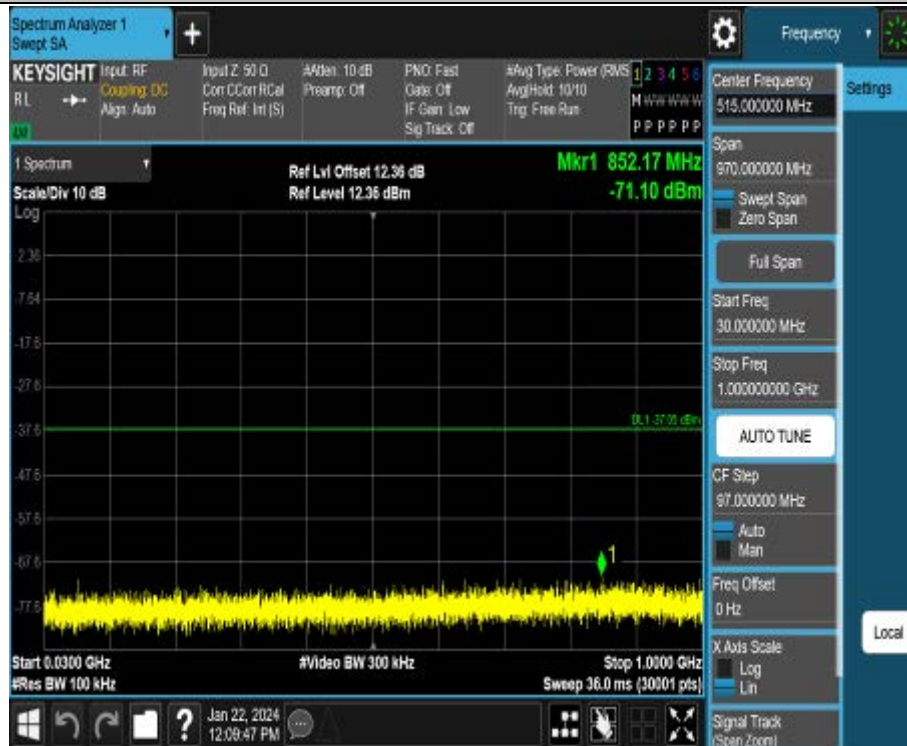
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11AX40MIMO_Ant2_2422_30~1000



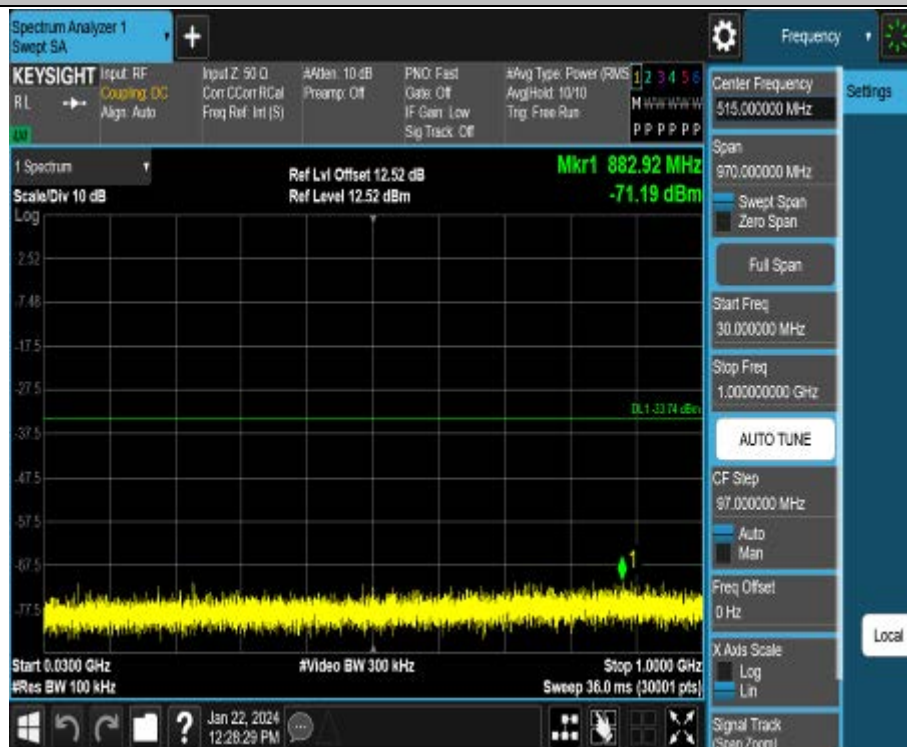
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11AX40MIMO_Ant1_2437_30~1000



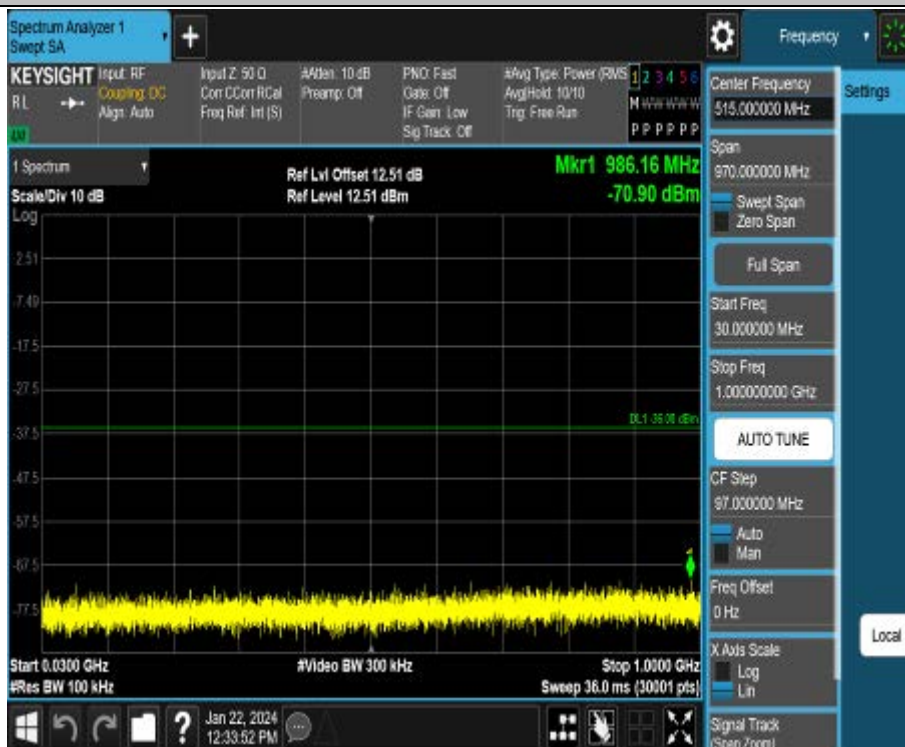
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11AX40MIMO_Ant2_2437_30~1000



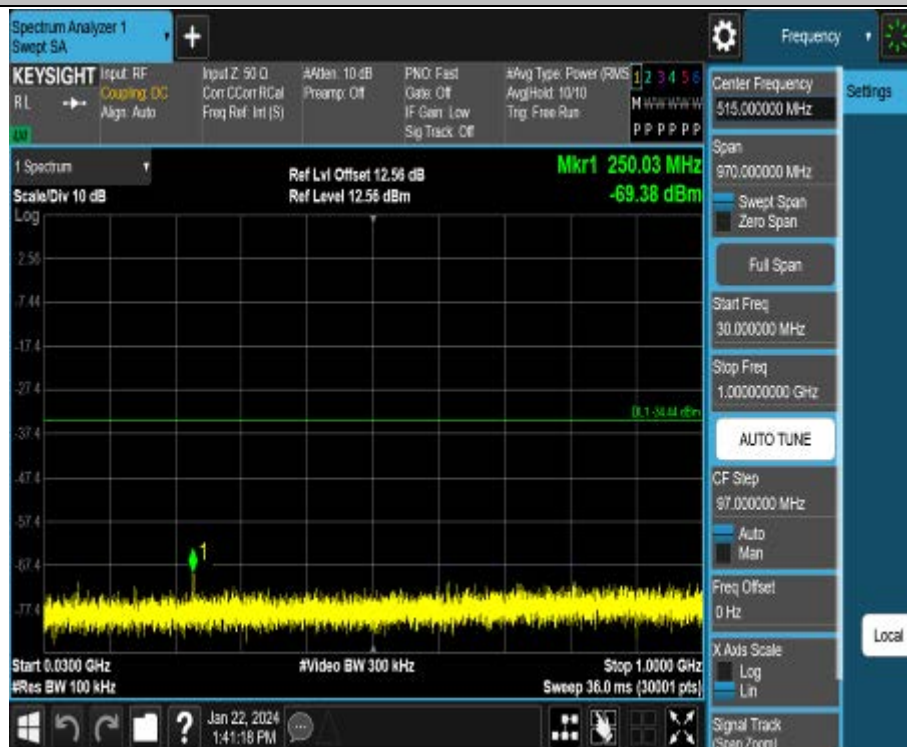
11AX40MIMO_Ant2_2437_1000~26500



11AX40MIMO_Ant1_2452_0~Reference



11AX40MIMO_Ant1_2452_30~1000



11AX40MIMO_Ant1_2452_1000~26500



11AX40MIMO_Ant2_2452_0~Reference



11AX40MIMO_Ant2_2452_30~1000



11AX40MIMO_Ant2_2452_1000~26500



Band edge

Test Mode	Antenna	Ch	Frequency[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B-CDD	Ant1	Low	2412	0.20	-50.38	≤ -29.8	PASS
	Ant2	Low	2412	-2.80	-49.3	≤ -32.8	PASS
	Ant1	High	2462	0.86	-50.23	≤ -29.14	PASS
	Ant2	High	2462	-1.13	-49.45	≤ -31.13	PASS
11G-CDD	Ant1	Low	2412	-0.77	-39.86	≤ -30.77	PASS
	Ant2	Low	2412	-2.25	-40.38	≤ -32.25	PASS
	Ant1	High	2462	-0.50	-50.17	≤ -30.5	PASS
	Ant2	High	2462	-2.66	-49.14	≤ -32.66	PASS
11N20MIMO	Ant1	Low	2412	-1.30	-39.21	≤ -31.3	PASS
	Ant2	Low	2412	-4.34	-39.61	≤ -34.34	PASS
	Ant1	High	2462	-2.00	-48.88	≤ -32	PASS
	Ant2	High	2462	-2.83	-48.77	≤ -32.83	PASS
11N40MIMO	Ant1	Low	2422	-4.28	-40.76	≤ -34.28	PASS
	Ant2	Low	2422	-6.29	-46.08	≤ -36.29	PASS
	Ant1	High	2452	-2.79	-47.65	≤ -32.79	PASS
	Ant2	High	2452	-6.07	-47.85	≤ -36.07	PASS
11AX20MIMO	Ant1	Low	2412	-2.29	-39.39	≤ -32.29	PASS
	Ant2	Low	2412	-3.74	-40.76	≤ -33.74	PASS
	Ant1	High	2462	-0.83	-50.26	≤ -30.83	PASS
	Ant2	High	2462	-2.56	-49.11	≤ -32.56	PASS
11AX40MIMO	Ant1	Low	2422	-5.57	-41.79	≤ -35.57	PASS
	Ant2	Low	2422	-7.45	-44.77	≤ -37.45	PASS
	Ant1	High	2452	-2.42	-47.57	≤ -32.42	PASS
	Ant2	High	2452	-4.71	-49.16	≤ -34.71	PASS

11B-CDD_Ant1_Low_2412



11B-CDD_Ant2_Low_2412



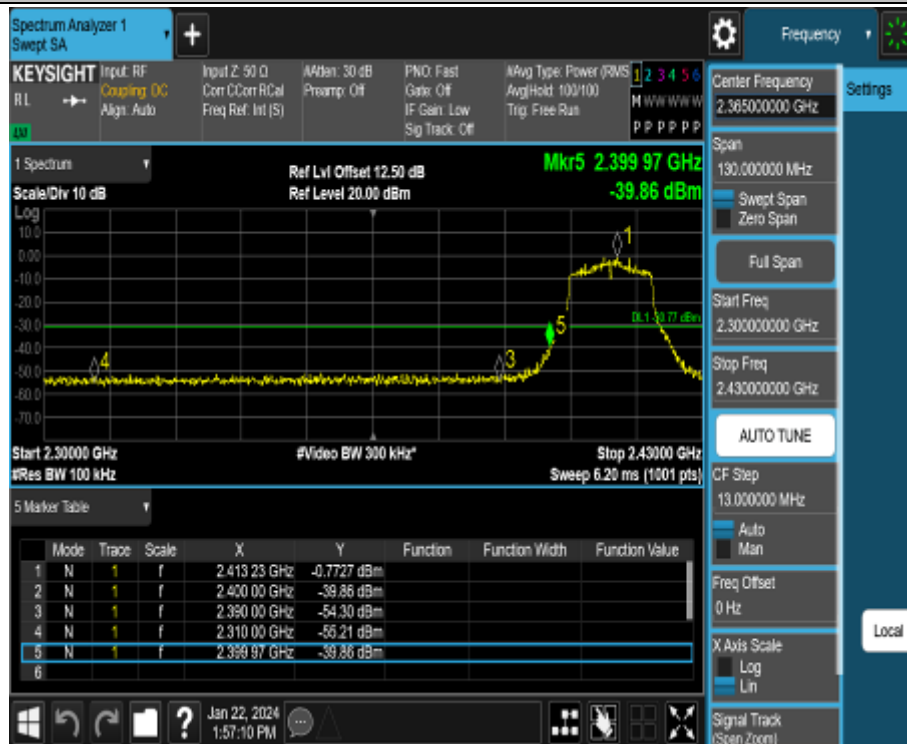
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11B-CDD_Ant2_High_2462



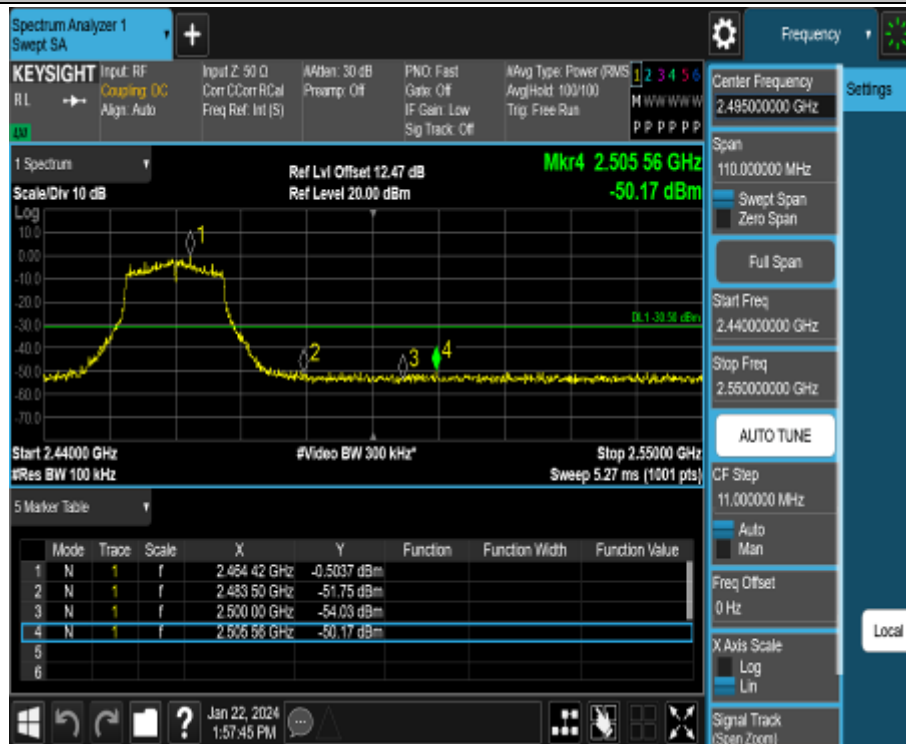
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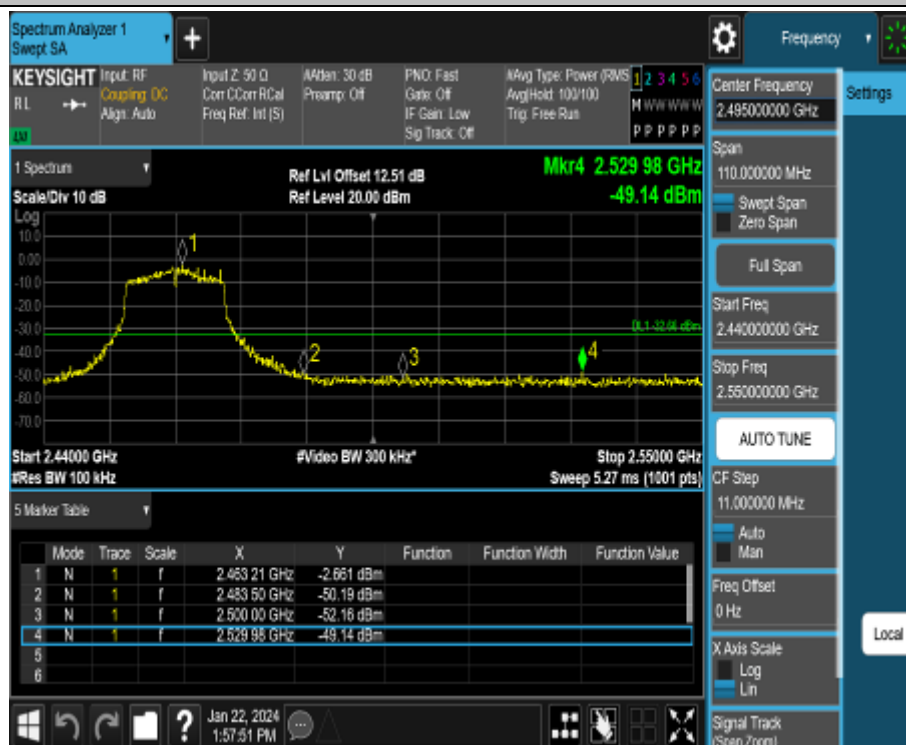
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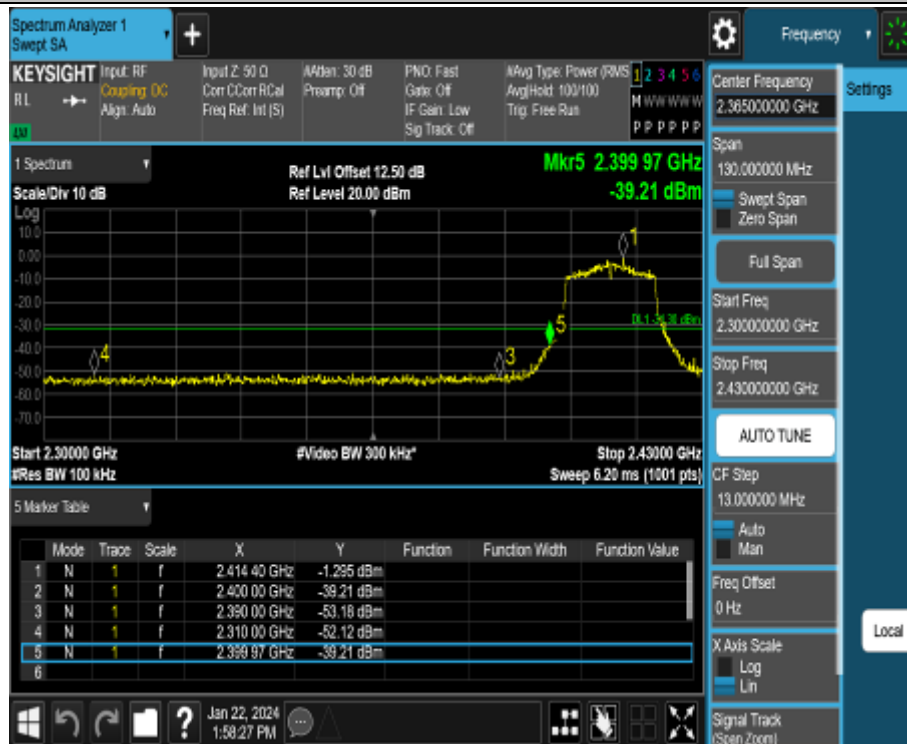
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11G-CDD_Ant2_High_2462



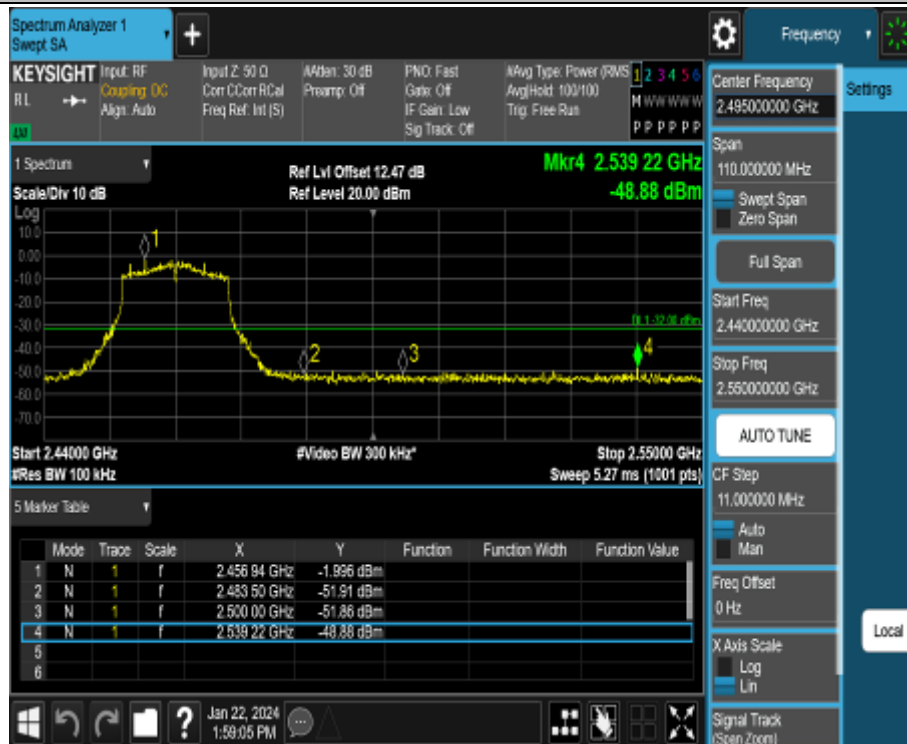
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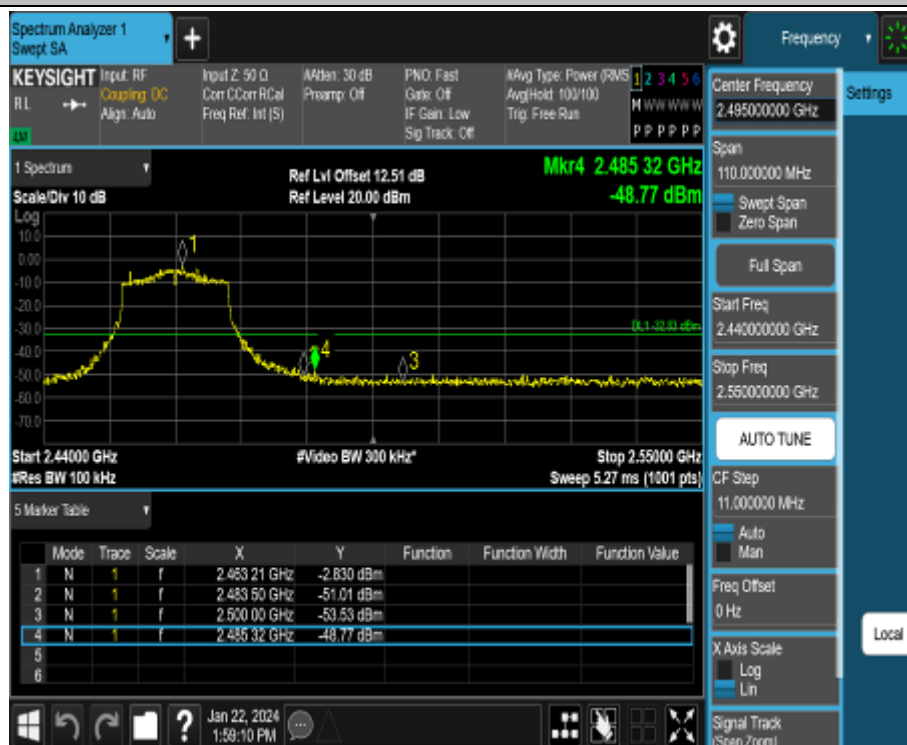
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11N20MIMO_Ant1_High_2462



11N20MIMO_Ant2_High_2462



11N40MIMO_Ant1_Low_2422



11N40MIMO_Ant2_Low_2422



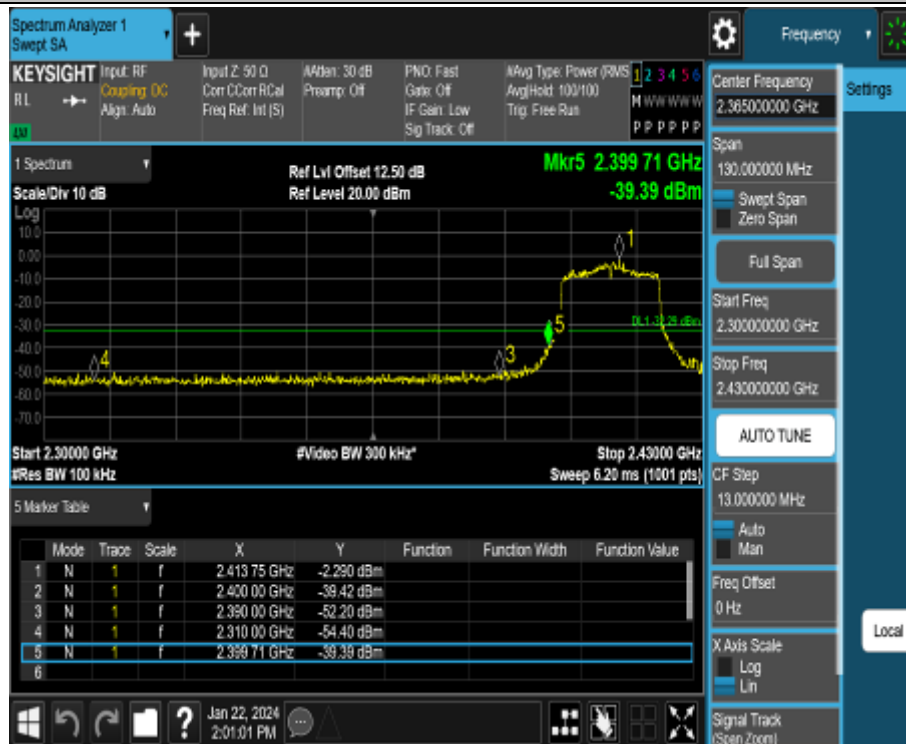
11N40MIMO_Ant1_High_2452



11N40MIMO_Ant2_High_2452



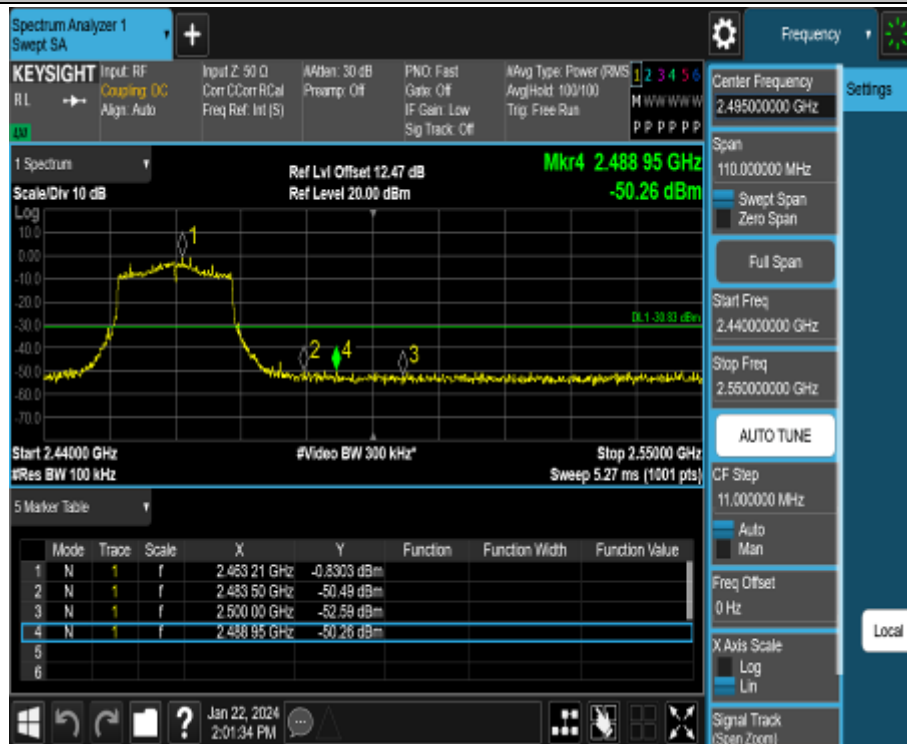
11AX20MIMO_Ant1_Low_2412



11AX20MIMO_Ant2_Low_2412



11AX20MIMO_Ant1_High_2462



11AX20MIMO_Ant2_High_2462



11AX40MIMO_Ant1_Low_2422



11AX40MIMO_Ant2_Low_2422



11AX40MIMO_Ant1_High_2452



11AX40MIMO_Ant2_High_2452



3.4 6dB Bandwidth

3.4.1 Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

3.4.2 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ☒ : Test ☐ : No Test	

a) The EUT was connected to the tonscend test system, and the spectrum analyser is set as follow:

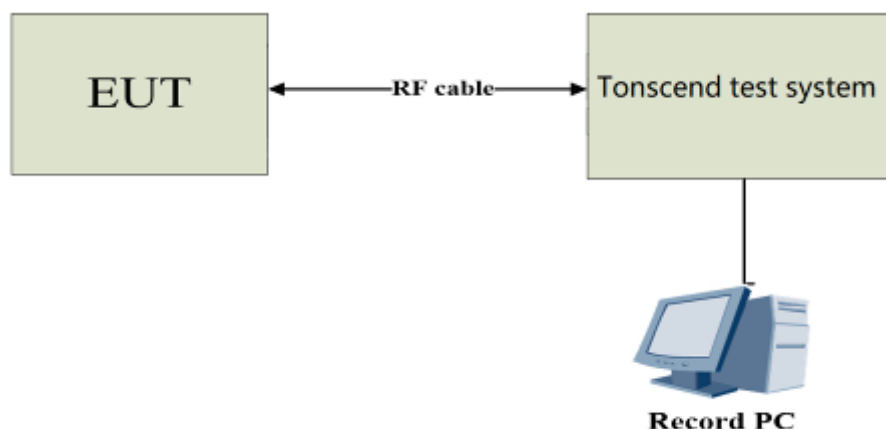
Centre Frequency	The centre frequency of the channel under test
RBW	100kHz
VBW	300kHz
Frequency span	2x Nominal Channel Bandwidth
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Time	Auto Couple

b) Wait for the trace to stabilize then find the peak value of the trace and place the analyser marker on this peak.

c) Use the -6dB bandwidth function of the spectrum analyser to measure the 6dB Bandwidth of the EUT. This value shall be recorded.

d) Make sure that the power envelope is sufficiently above the noise floor of the analyser to avoid the noise signals left and right from the power envelope being taken into account by this measurement.

3.4.3 Test Setup



3.4.4 Test Result

DTS Bandwidth

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	7.800	2408.160	2415.960	0.5	PASS
	Ant2	2412	7.760	2407.960	2415.720	0.5	PASS
	Ant1	2437	7.800	2433.200	2441.000	0.5	PASS
	Ant2	2437	7.560	2433.440	2441.000	0.5	PASS
	Ant1	2462	7.840	2458.160	2466.000	0.5	PASS
	Ant2	2462	7.560	2457.920	2465.480	0.5	PASS
11G-CDD	Ant1	2412	16.400	2403.760	2420.160	0.5	PASS
	Ant2	2412	16.360	2403.760	2420.120	0.5	PASS
	Ant1	2437	16.480	2428.720	2445.200	0.5	PASS
	Ant2	2437	16.400	2428.800	2445.200	0.5	PASS
	Ant1	2462	16.440	2453.760	2470.200	0.5	PASS
	Ant2	2462	16.480	2453.720	2470.200	0.5	PASS
11N20MIMO	Ant1	2412	16.560	2403.560	2420.120	0.5	PASS
	Ant2	2412	16.520	2403.840	2420.360	0.5	PASS
	Ant1	2437	16.040	2429.440	2445.480	0.5	PASS
	Ant2	2437	16.800	2428.560	2445.360	0.5	PASS
	Ant1	2462	16.560	2453.560	2470.120	0.5	PASS
	Ant2	2462	17.160	2453.200	2470.360	0.5	PASS
11N40MIMO	Ant1	2422	24.160	2412.800	2436.960	0.5	PASS
	Ant2	2422	28.800	2410.640	2439.440	0.5	PASS
	Ant1	2437	35.360	2419.160	2454.520	0.5	PASS
	Ant2	2437	33.520	2420.680	2454.200	0.5	PASS
	Ant1	2452	33.120	2436.320	2469.440	0.5	PASS
	Ant2	2452	30.000	2439.440	2469.440	0.5	PASS
11AX20MIMO	Ant1	2412	15.560	2403.640	2419.200	0.5	PASS
	Ant2	2412	17.520	2403.480	2421.000	0.5	PASS
	Ant1	2437	13.520	2431.360	2444.880	0.5	PASS
	Ant2	2437	15.720	2430.000	2445.720	0.5	PASS
	Ant1	2462	17.360	2453.320	2470.680	0.5	PASS
	Ant2	2462	17.800	2453.400	2471.200	0.5	PASS
11AX40MIMO	Ant1	2422	25.120	2413.120	2438.240	0.5	PASS
	Ant2	2422	25.440	2413.680	2439.120	0.5	PASS
	Ant1	2437	33.280	2421.160	2454.440	0.5	PASS
	Ant2	2437	28.960	2424.120	2453.080	0.5	PASS
	Ant1	2452	35.680	2434.240	2469.920	0.5	PASS
	Ant2	2452	32.560	2436.960	2469.520	0.5	PASS

11B-CDD_Ant1_2412



11B-CDD_Ant2_2412



11B-CDD_Ant1_2437



11B-CDD_Ant2_2437



11B-CDD_Ant1_2462



11B-CDD_Ant2_2462



11G-CDD_Ant1_2412



11G-CDD_Ant2_2412



11G-CDD_Ant1_2437



11G-CDD_Ant2_2437



11G-CDD_Ant1_2462



11G-CDD_Ant2_2462



11N20MIMO_Ant1_2412



11N20MIMO_Ant2_2412



11N20MIMO_Ant1_2437



11N20MIMO_Ant2_2437



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



11AX20MIMO_Ant2_2437



11AX20MIMO_Ant1_2462



11AX20MIMO_Ant2_2462



11AX40MIMO_Ant1_2422



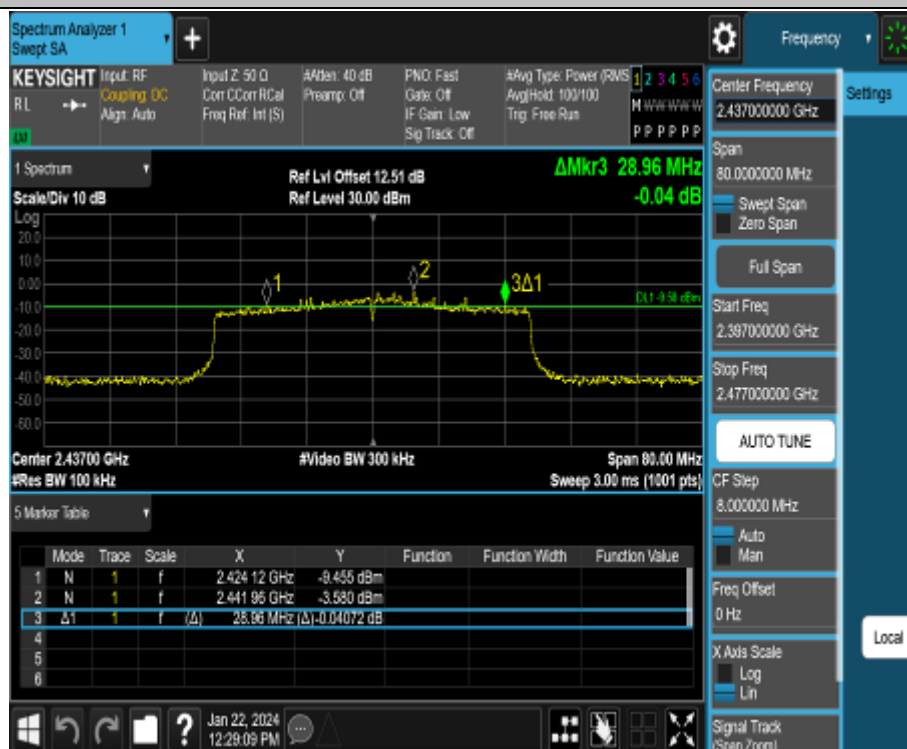
11AX40MIMO_Ant2_2422



11AX40MIMO_Ant1_2437



11AX40MIMO_Ant2_2437



11AX40MIMO_Ant1_2452



11AX40MIMO_Ant2_2452



Occupied Channel Bandwidth

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	13.630	2405.1375	2418.7675	---	---
	Ant2	2412	13.700	2405.1268	2418.8268	---	---
	Ant1	2437	13.299	2430.3450	2443.6440	---	---
	Ant2	2437	13.295	2430.3577	2443.6527	---	---
	Ant1	2462	13.293	2455.2919	2468.5849	---	---
	Ant2	2462	13.462	2455.2379	2468.6999	---	---
11G-CDD	Ant1	2412	16.865	2403.5450	2420.4100	---	---
	Ant2	2412	16.845	2403.5221	2420.3671	---	---
	Ant1	2437	16.811	2428.5908	2445.4018	---	---
	Ant2	2437	16.822	2428.5236	2445.3456	---	---
	Ant1	2462	16.860	2453.5007	2470.3607	---	---
	Ant2	2462	16.818	2453.5772	2470.3952	---	---
11N20MIMO	Ant1	2412	17.586	2403.1540	2420.7400	---	---
	Ant2	2412	17.538	2403.2133	2420.7513	---	---
	Ant1	2437	17.521	2428.2139	2445.7349	---	---
	Ant2	2437	17.583	2428.1766	2445.7596	---	---
	Ant1	2462	17.567	2453.1683	2470.7353	---	---
	Ant2	2462	17.578	2453.1809	2470.7589	---	---
11N40MIMO	Ant1	2422	35.880	2404.0279	2439.9079	---	---
	Ant2	2422	35.938	2404.0366	2439.9746	---	---
	Ant1	2437	35.885	2419.0220	2454.9070	---	---
	Ant2	2437	35.906	2419.0566	2454.9626	---	---
	Ant1	2452	35.840	2434.0265	2469.8665	---	---
	Ant2	2452	35.900	2434.0510	2469.9510	---	---
11AX20MIMO	Ant1	2412	18.813	2402.5578	2421.3708	---	---
	Ant2	2412	18.872	2402.5418	2421.4138	---	---
	Ant1	2437	18.784	2427.5691	2446.3531	---	---
	Ant2	2437	18.785	2427.5702	2446.3552	---	---
	Ant1	2462	18.777	2452.5366	2471.3136	---	---
	Ant2	2462	18.899	2452.5227	2471.4217	---	---
11AX40MIMO	Ant1	2422	37.756	2403.0848	2440.8408	---	---
	Ant2	2422	37.666	2403.1397	2440.8057	---	---
	Ant1	2437	37.496	2418.2191	2455.7151	---	---
	Ant2	2437	37.573	2418.2032	2455.7762	---	---
	Ant1	2452	37.498	2433.1980	2470.6960	---	---
	Ant2	2452	37.620	2433.1963	2470.8163	---	---