

Appendix B: Test Results of Wi-Fi 802.11 b/g/n

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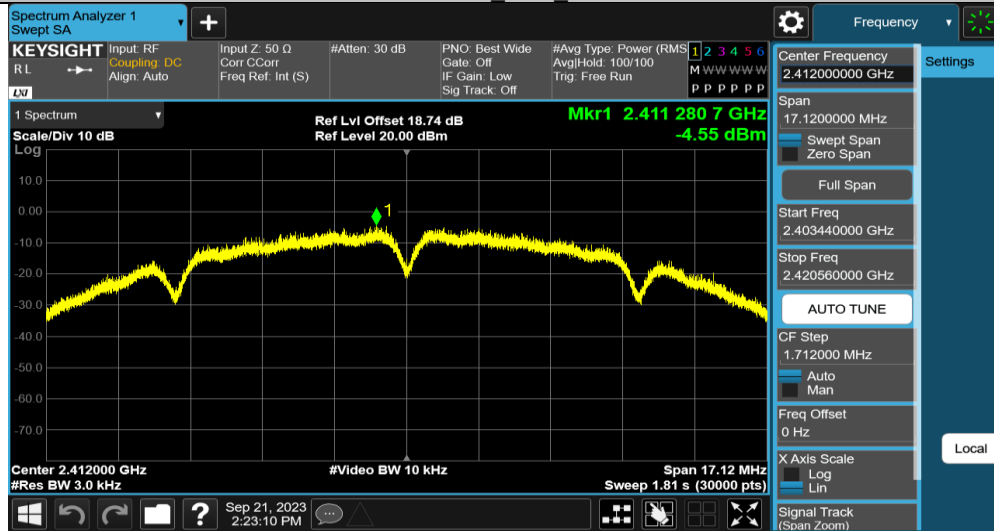
Appendix B.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B-CDD	Ant1	2412	-4.55	≤8.00	PASS
	Ant2	2412	-4.34	≤8.00	PASS
	Ant1	2437	-2.93	≤8.00	PASS
	Ant2	2437	-2.18	≤8.00	PASS
	Ant1	2462	-4.83	≤8.00	PASS
	Ant2	2462	-3.96	≤8.00	PASS
11G-CDD	Ant1	2412	-6.15	≤8.00	PASS
	Ant2	2412	-5.97	≤8.00	PASS
	Ant1	2437	-5.08	≤8.00	PASS
	Ant2	2437	-4.72	≤8.00	PASS
	Ant1	2462	-5.37	≤8.00	PASS
	Ant2	2462	-5.86	≤8.00	PASS
11N20MIMO	Ant1	2412	-6.36	≤8.00	PASS
	Ant2	2412	-5.89	≤8.00	PASS
	total	2412	-3.11	≤8.00	PASS
	Ant1	2437	-6.07	≤8.00	PASS
	Ant2	2437	-5.91	≤8.00	PASS
	total	2437	-2.98	≤8.00	PASS
	Ant1	2462	-7.4	≤8.00	PASS
	Ant2	2462	-6.65	≤8.00	PASS
11N40MIMO	total	2462	-4.00	≤8.00	PASS
	Ant1	2422	-13.27	≤8.00	PASS
	Ant2	2422	-10.65	≤8.00	PASS
	total	2422	-8.76	≤8.00	PASS
	Ant1	2437	-11.33	≤8.00	PASS
	Ant2	2437	-10.77	≤8.00	PASS
	total	2437	-8.03	≤8.00	PASS
	Ant1	2452	-12.06	≤8.00	PASS
	Ant2	2452	-11.64	≤8.00	PASS
	total	2452	-8.83	≤8.00	PASS

Note:

1. As for 802.11b/g, only SISO supported.
2. As for 802.11n, both MIMO and SISO supported.
3. As for MIMO mode for Antenna 1# and Antenna 2#, directional gain is 5.8dBi, thus the power limit reduced by 0dB.

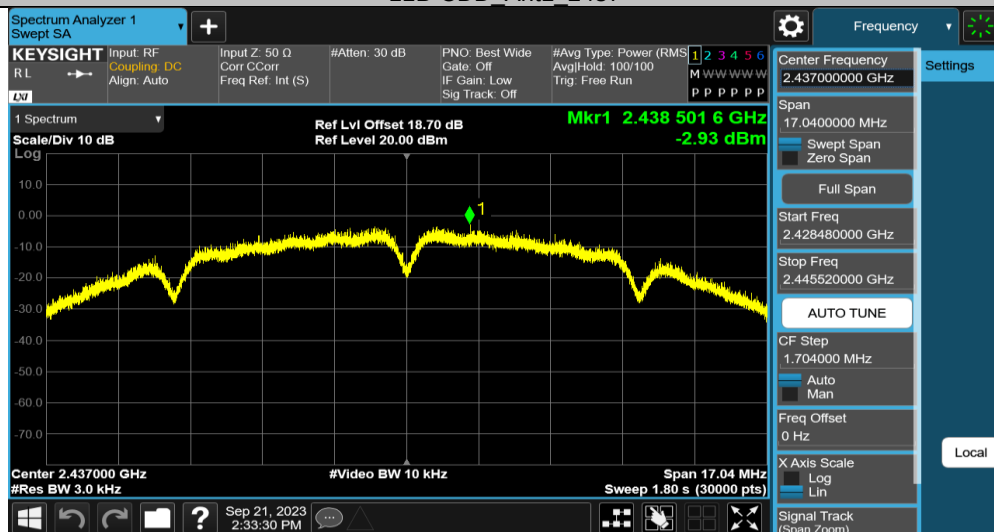
11B-CDD Ant1 2412



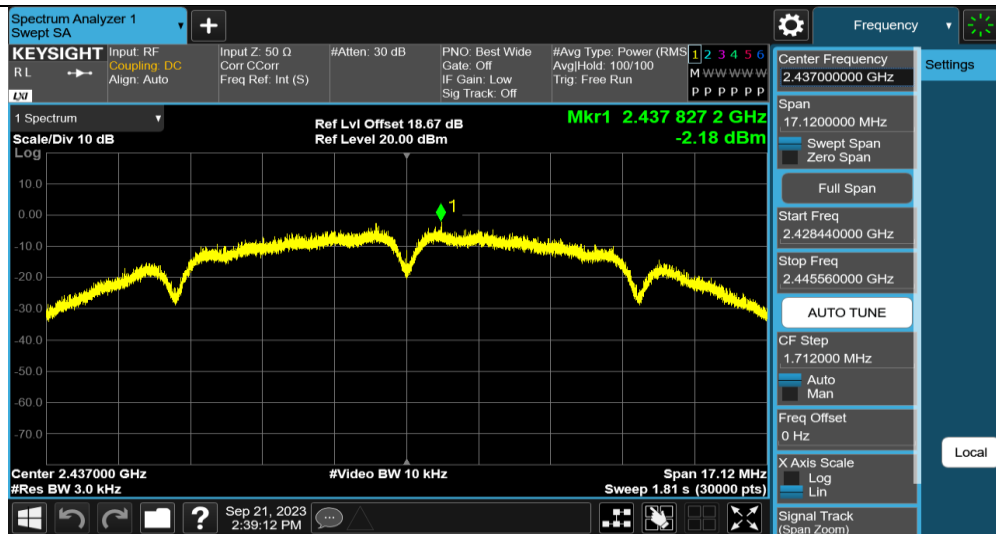
11B-CDD Ant2 2412



11B-CDD Ant1 2437



11B-CDD Ant2 2437



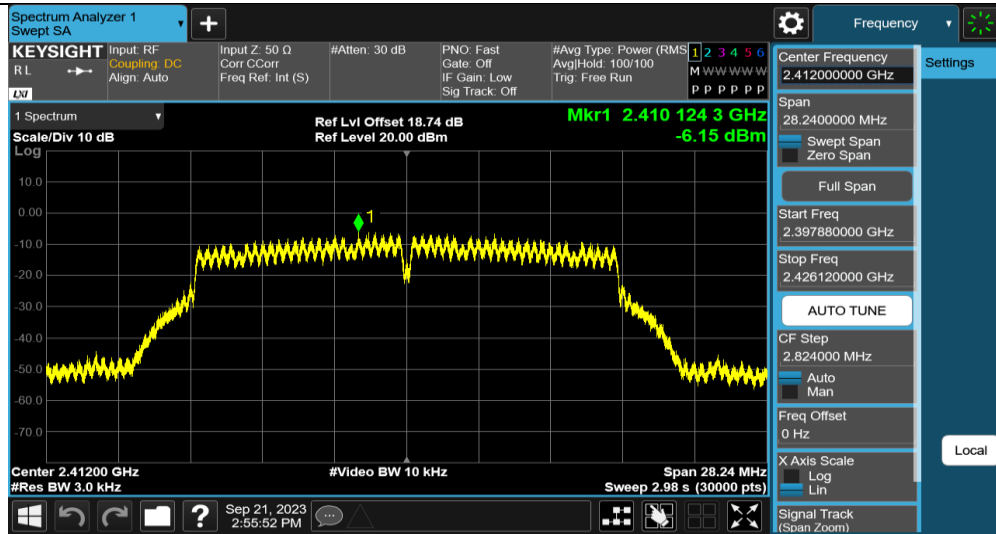
11B-CDD Ant1 2462



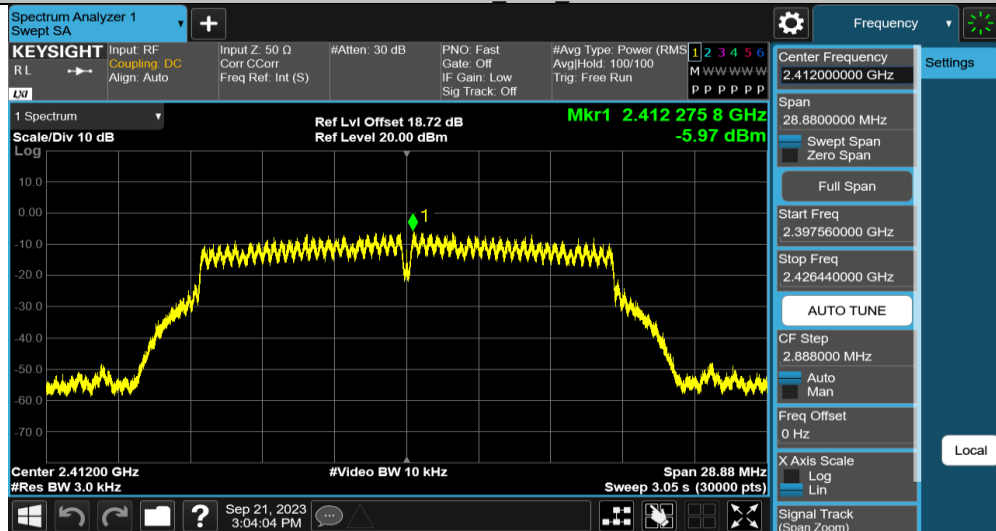
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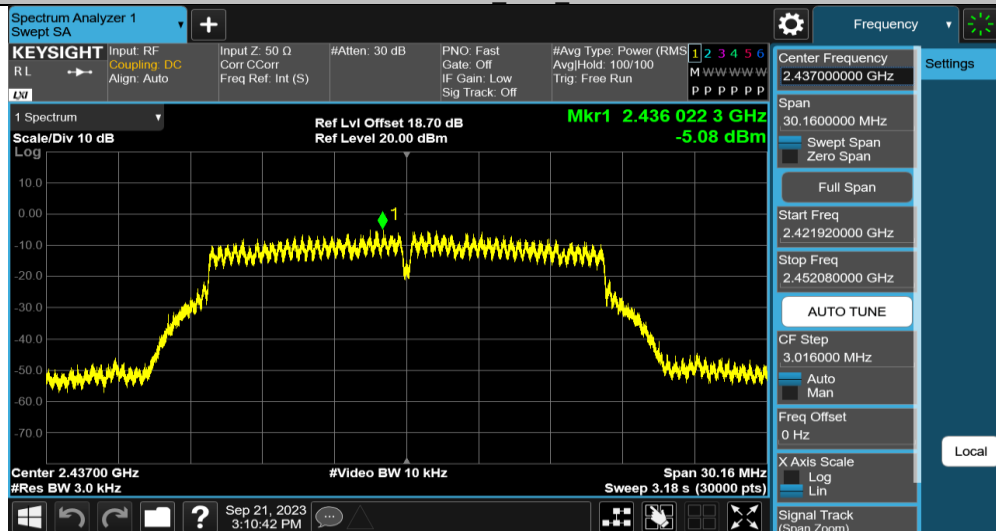
11G-CDD Ant1 2412



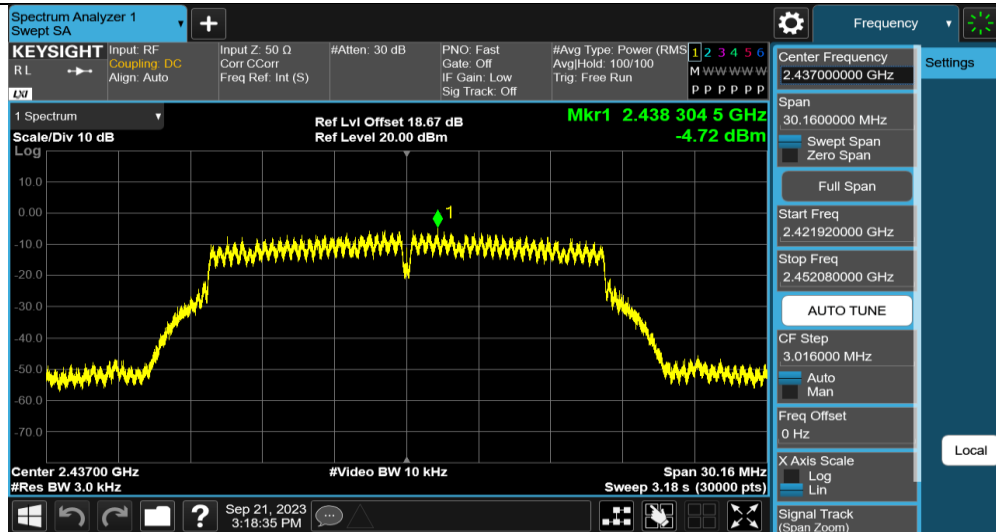
11G-CDD Ant2 2412



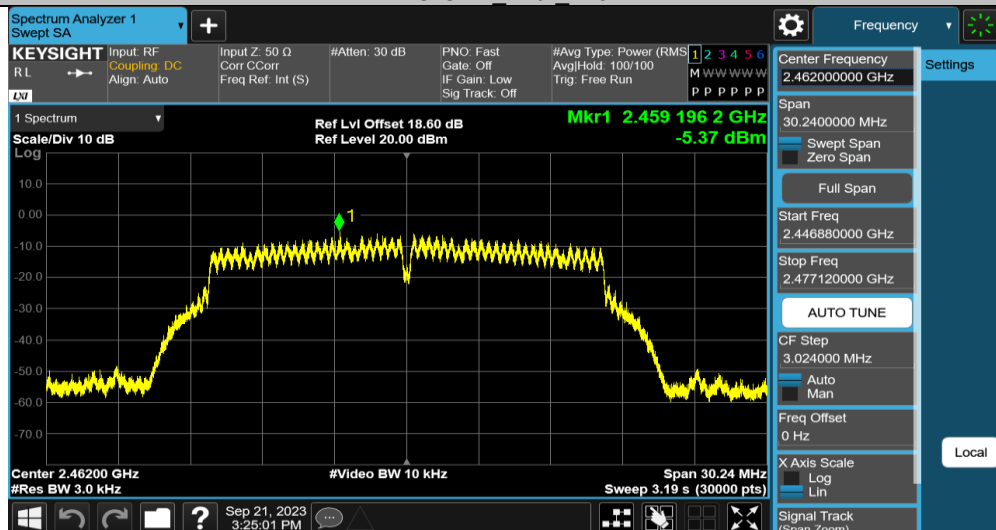
11G-CDD Ant1 2437



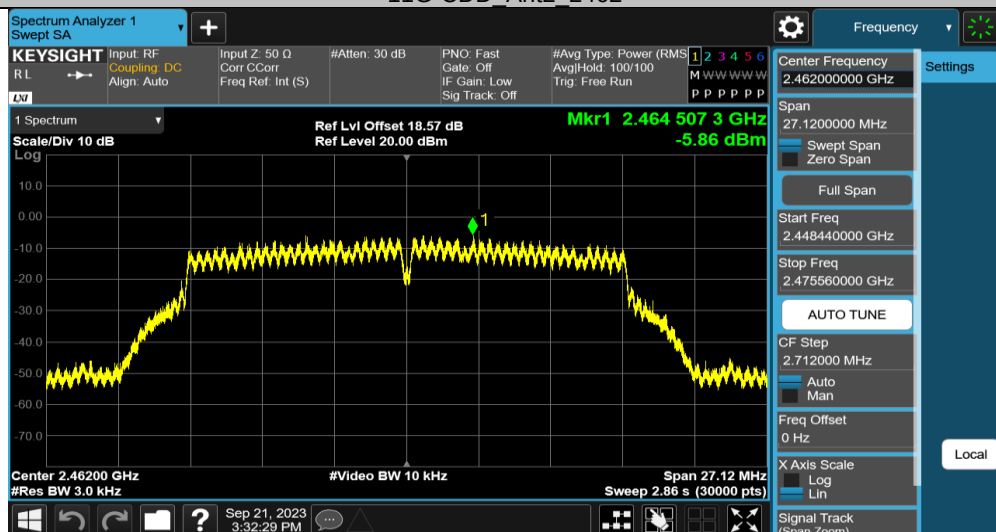
11G-CDD Ant2 2437



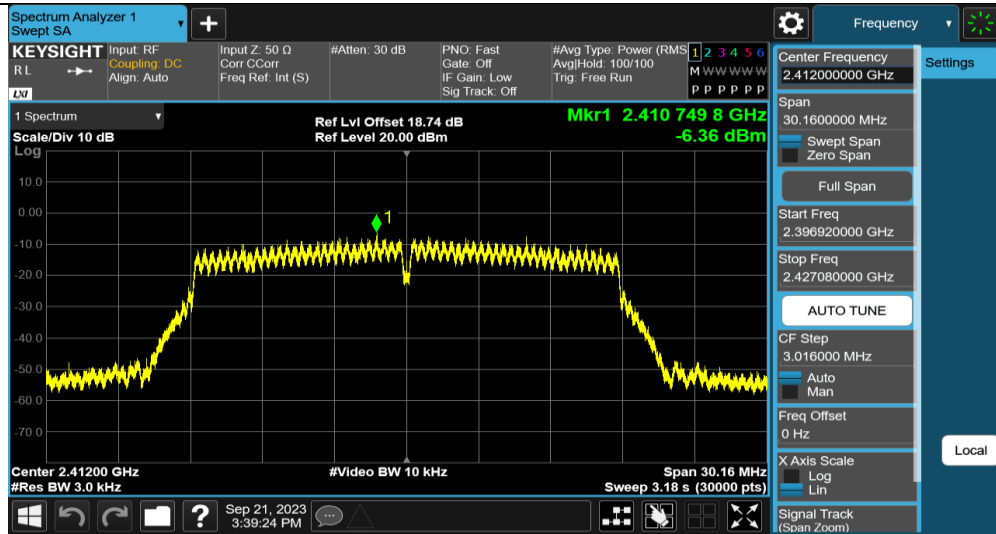
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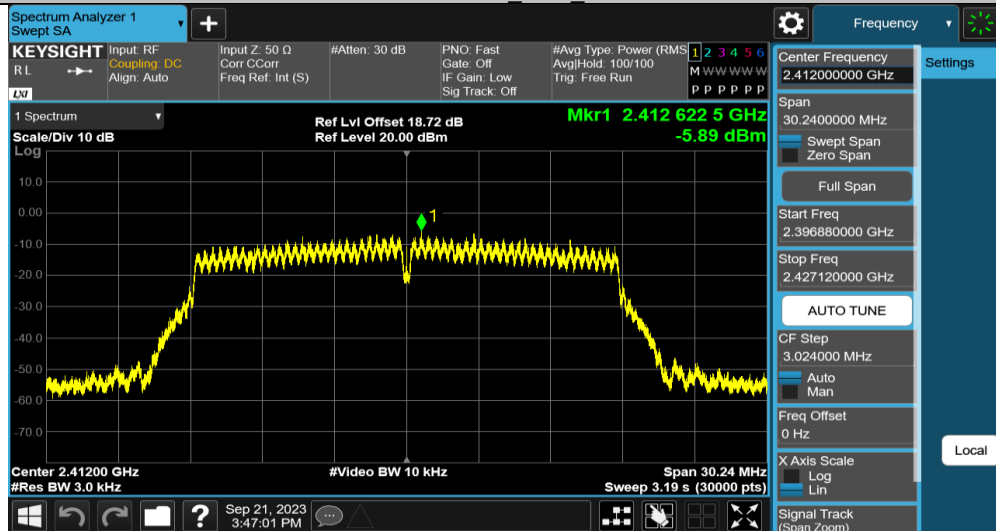
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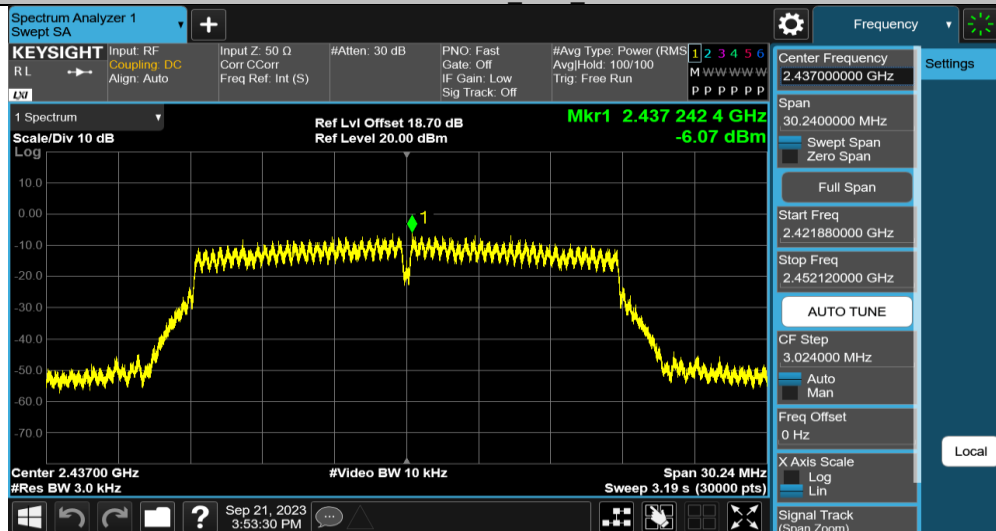
11N20MIMO Ant1 2412



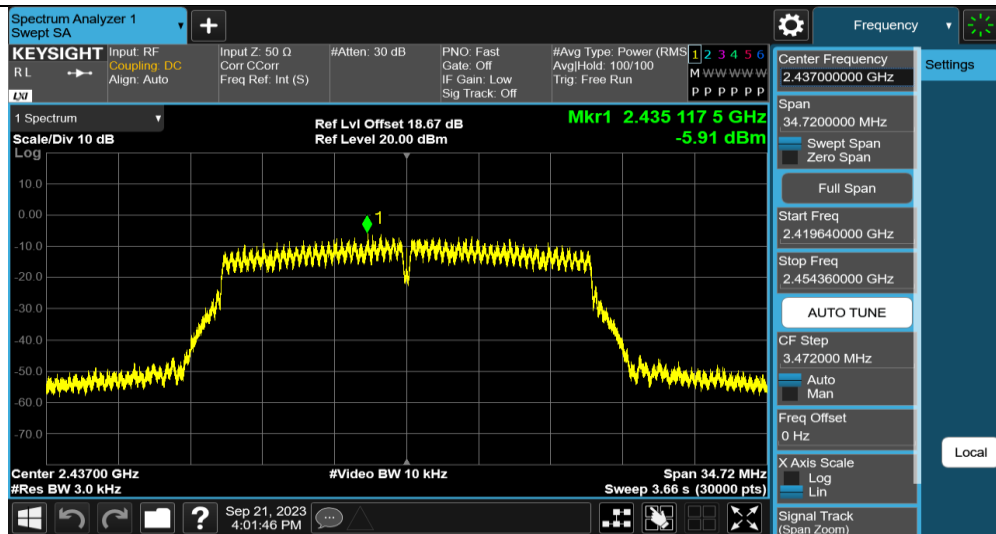
11N20MIMO Ant2 2412



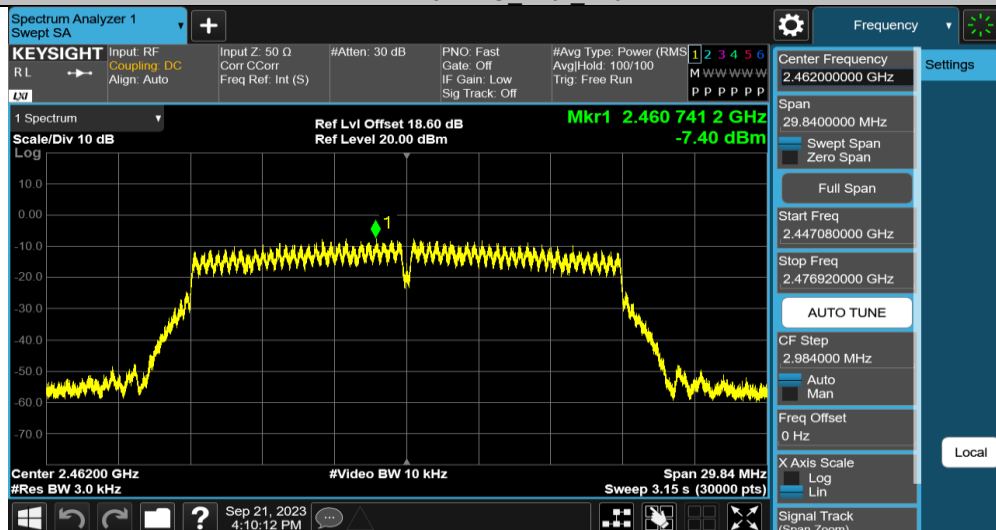
11N20MIMO Ant1 2437



11N20MIMO Ant2 2437



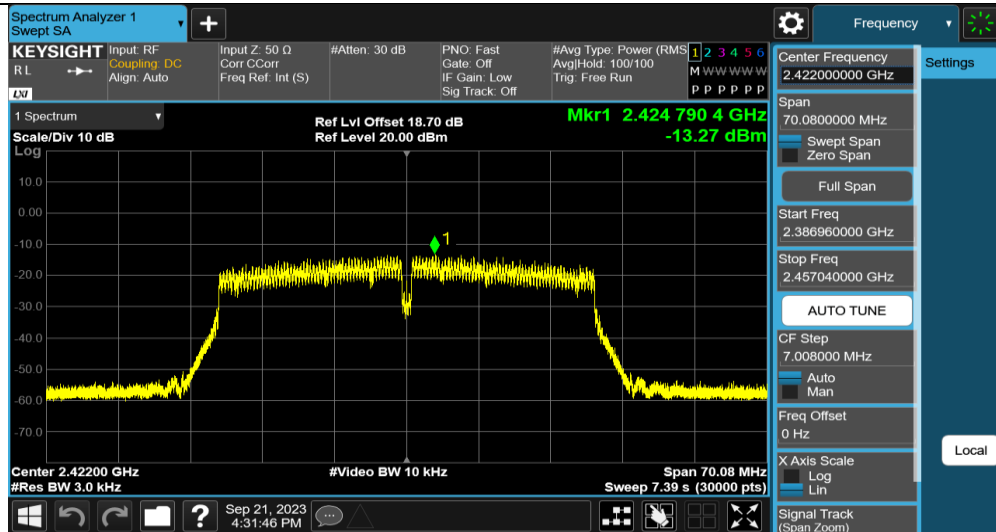
11N20MIMO Ant1 2462



11N20MIMO Ant2 2462



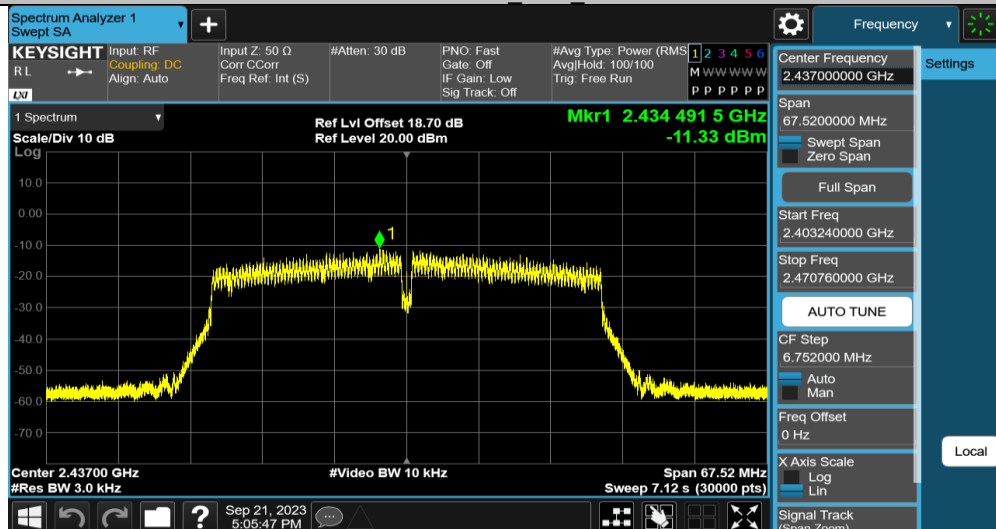
11N40MIMO Ant1 2422



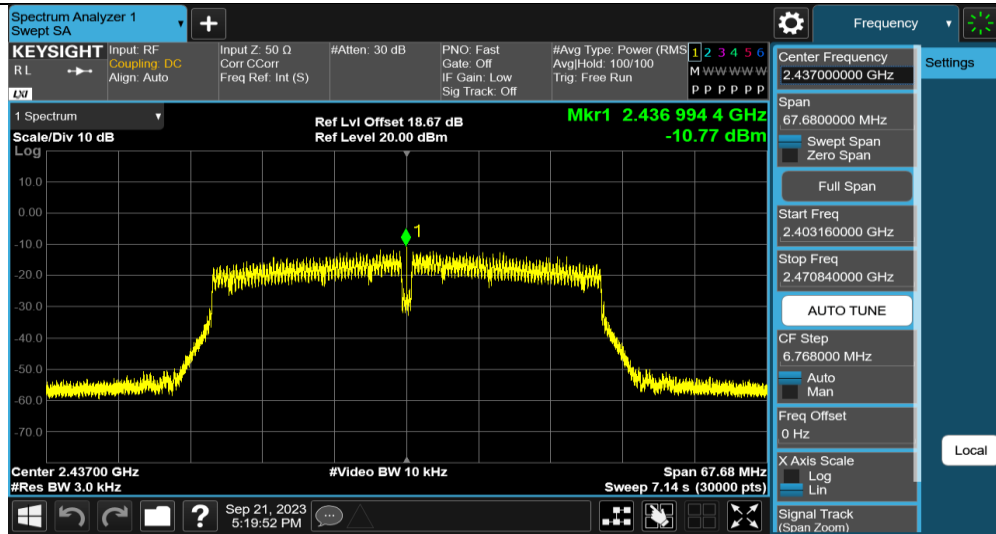
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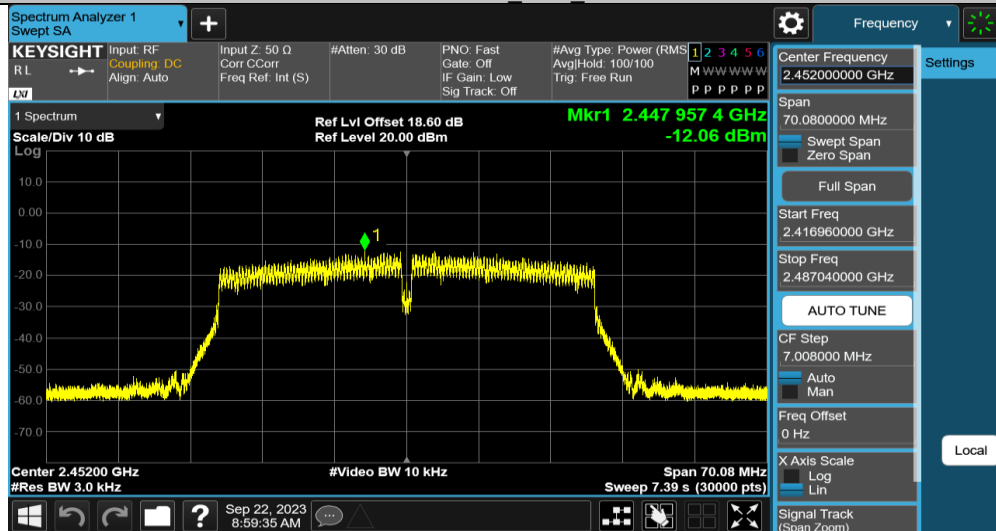
11N40MIMO Ant1 2437



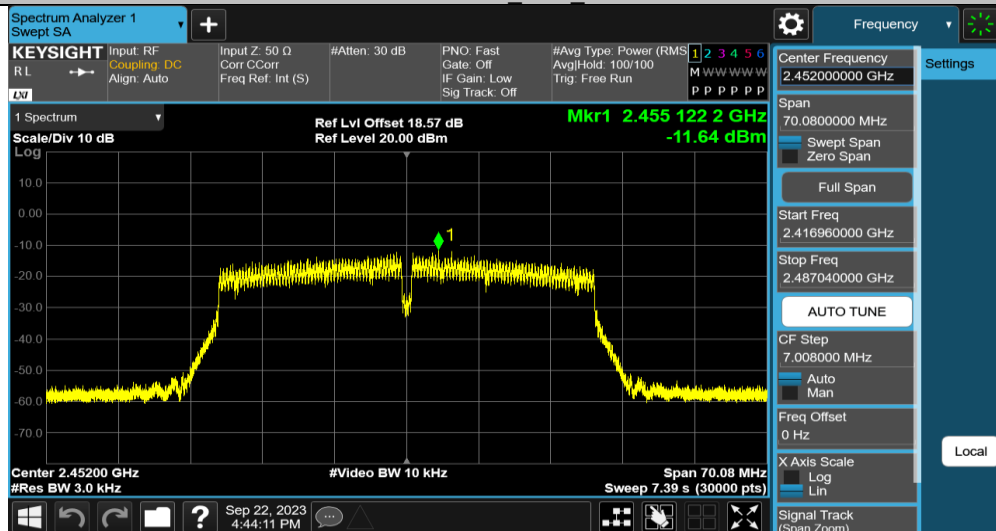
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11N40MIMO Ant1 2452



11N40MIMO Ant2 2452

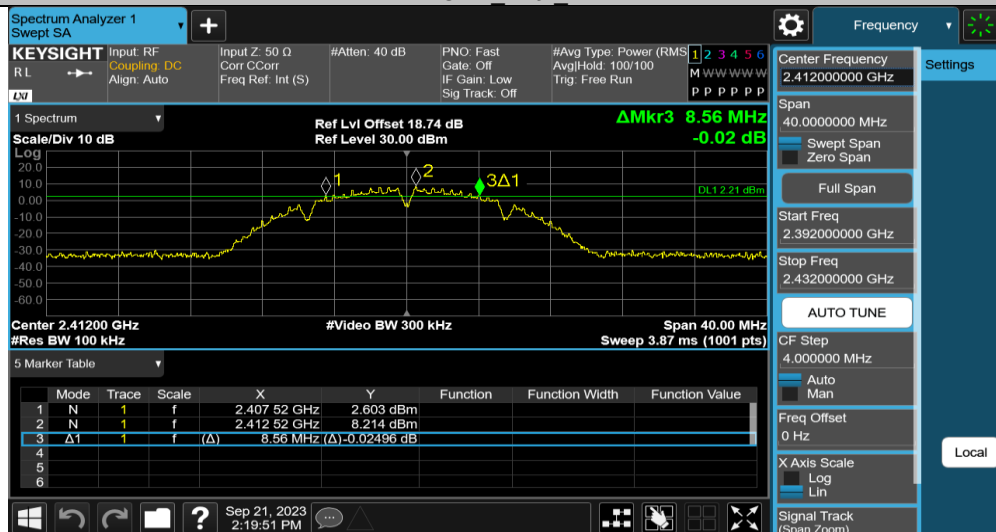


Appendix B.2: Test Results of 6dB Bandwidth

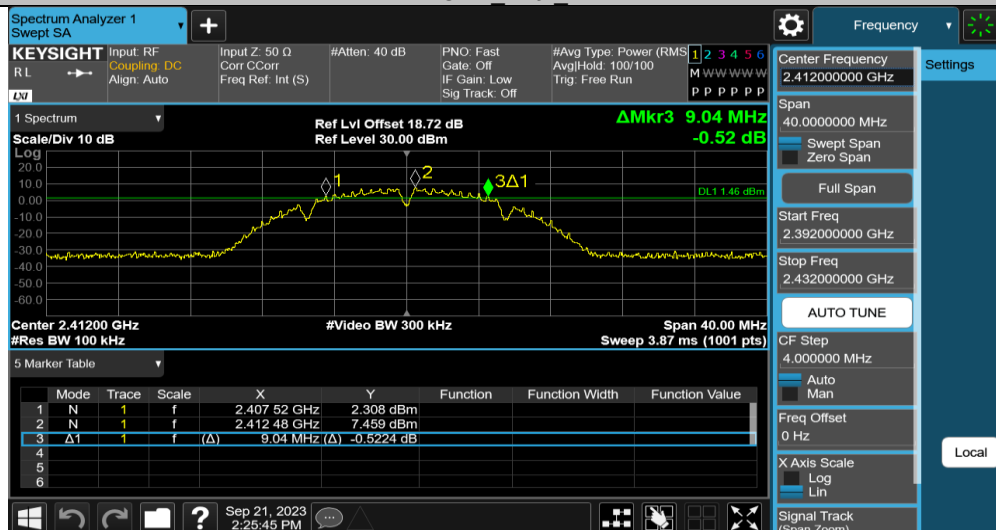
DTS Bandwidth Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	8.560	2407.520	2416.080	0.5	PASS
	Ant2	2412	9.040	2407.520	2416.560	0.5	PASS
	Ant1	2437	8.520	2432.480	2441.000	0.5	PASS
	Ant2	2437	8.560	2432.480	2441.040	0.5	PASS
	Ant1	2462	8.520	2457.480	2466.000	0.5	PASS
	Ant2	2462	9.000	2457.520	2466.520	0.5	PASS
11G-CDD	Ant1	2412	14.120	2405.400	2419.520	0.5	PASS
	Ant2	2412	14.440	2405.680	2420.120	0.5	PASS
	Ant1	2437	15.080	2429.440	2444.520	0.5	PASS
	Ant2	2437	15.080	2429.440	2444.520	0.5	PASS
	Ant1	2462	15.120	2454.440	2469.560	0.5	PASS
	Ant2	2462	13.560	2455.320	2468.880	0.5	PASS
11N20MIMO	Ant1	2412	15.080	2404.480	2419.560	0.5	PASS
	Ant2	2412	15.120	2404.440	2419.560	0.5	PASS
	Ant1	2437	15.120	2429.440	2444.560	0.5	PASS
	Ant2	2437	17.360	2428.200	2445.560	0.5	PASS
	Ant1	2462	14.920	2454.520	2469.440	0.5	PASS
	Ant2	2462	15.000	2454.480	2469.480	0.5	PASS
11N40MIMO	Ant1	2422	35.040	2404.480	2439.520	0.5	PASS
	Ant2	2422	34.960	2404.480	2439.440	0.5	PASS
	Ant1	2437	33.760	2420.760	2454.520	0.5	PASS
	Ant2	2437	33.840	2420.680	2454.520	0.5	PASS
	Ant1	2452	35.040	2434.480	2469.520	0.5	PASS
	Ant2	2452	35.040	2434.480	2469.520	0.5	PASS

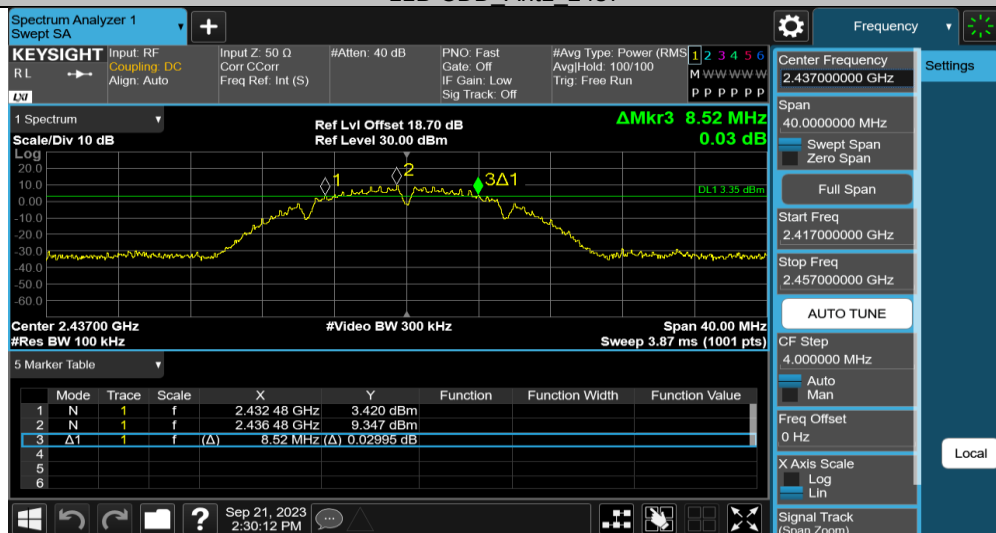
11B-CDD Ant1 2412



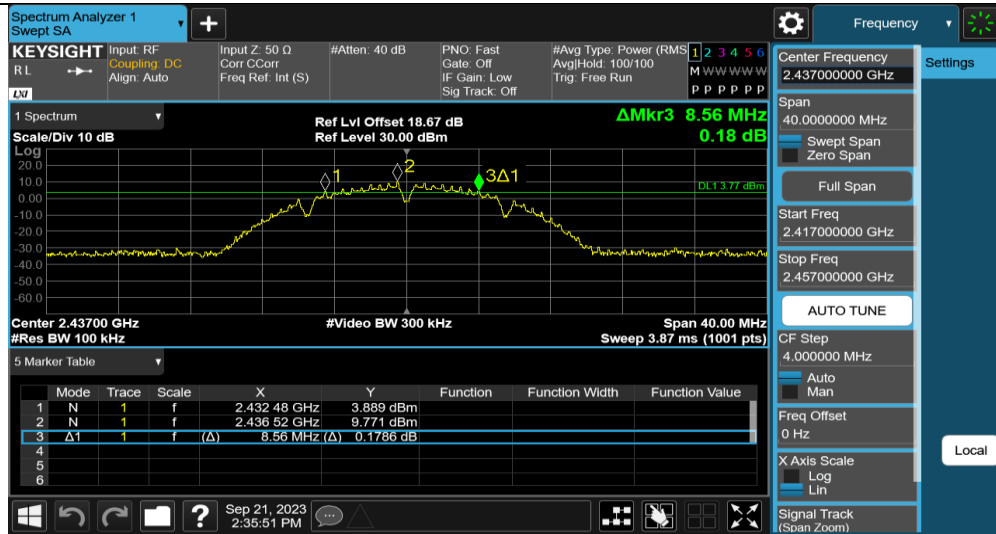
11B-CDD Ant2 2412



11B-CDD Ant1 2437



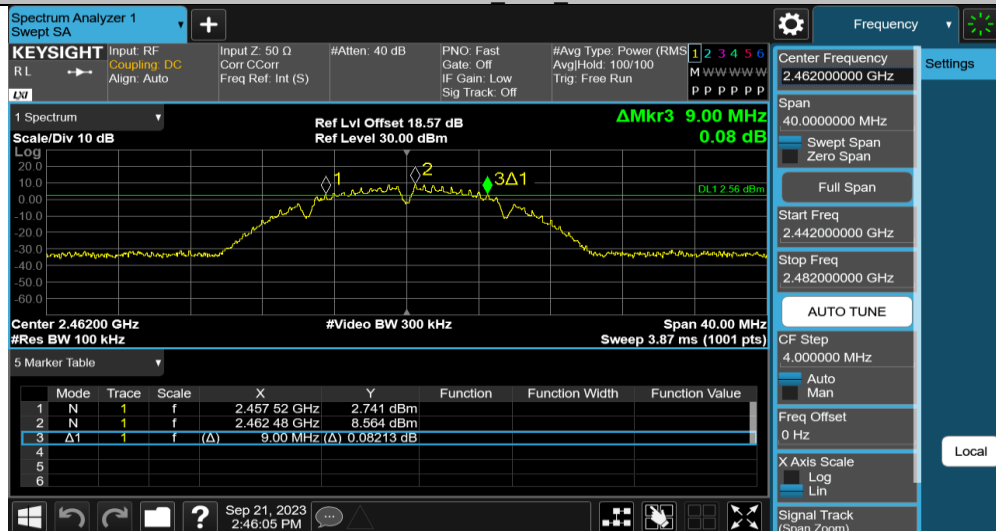
11B-CDD Ant2 2437



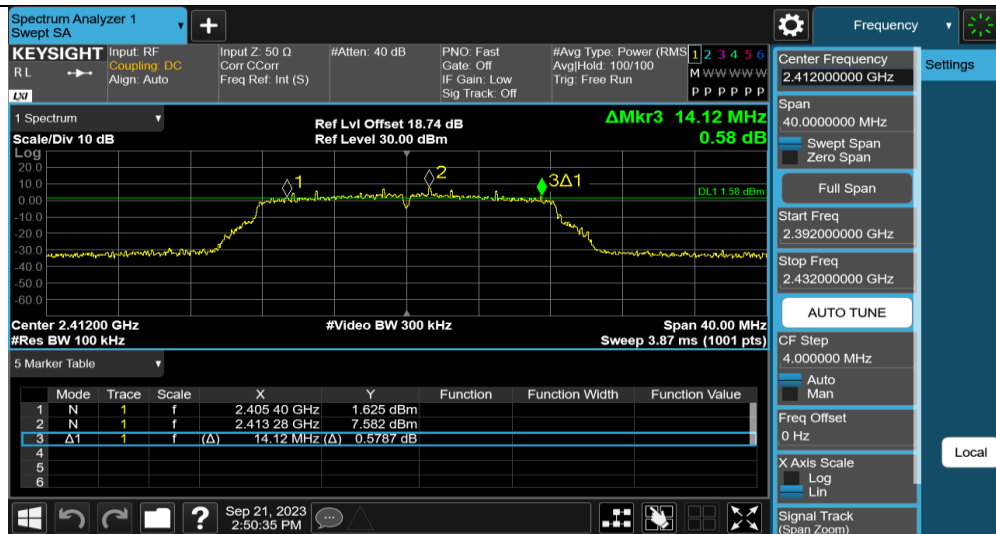
11B-CDD Ant1 2462



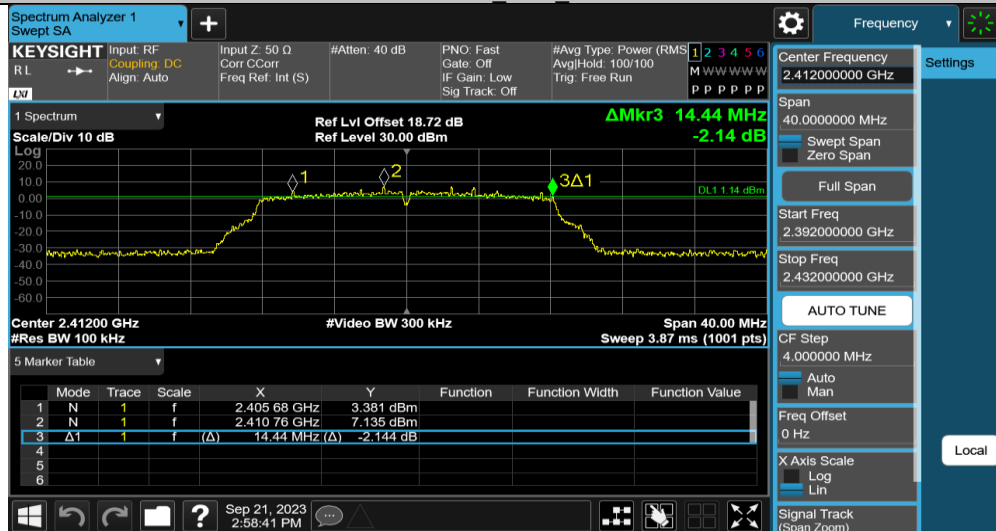
11B-CDD Ant2 2462



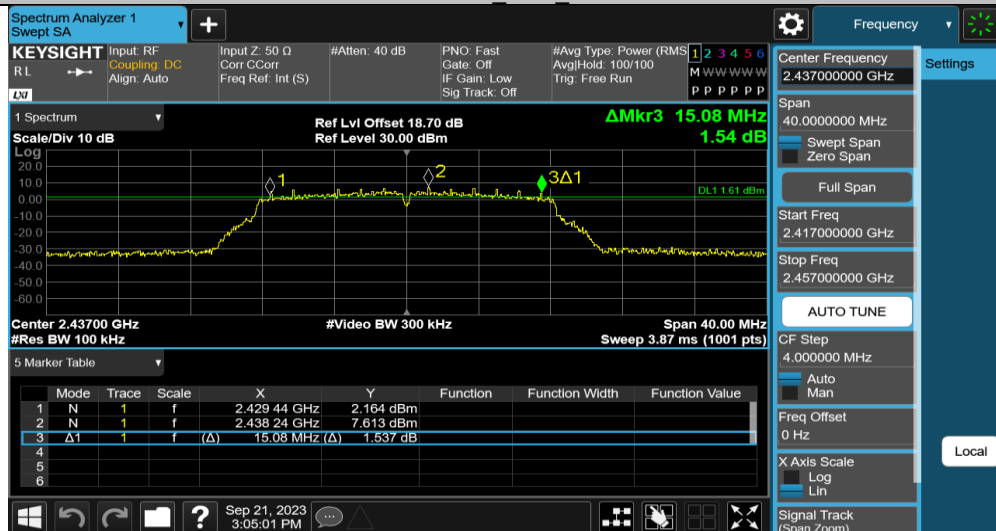
11G-CDD Ant1 2412



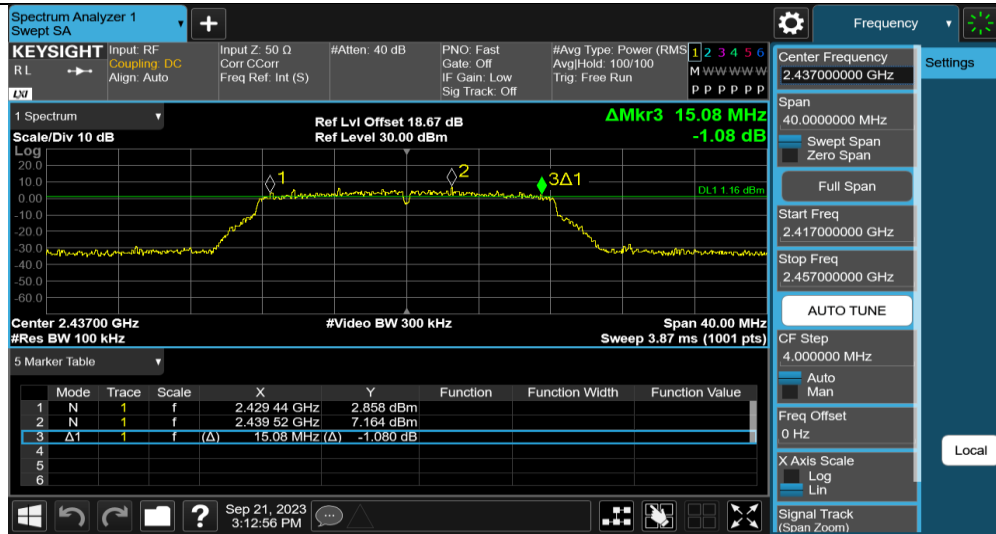
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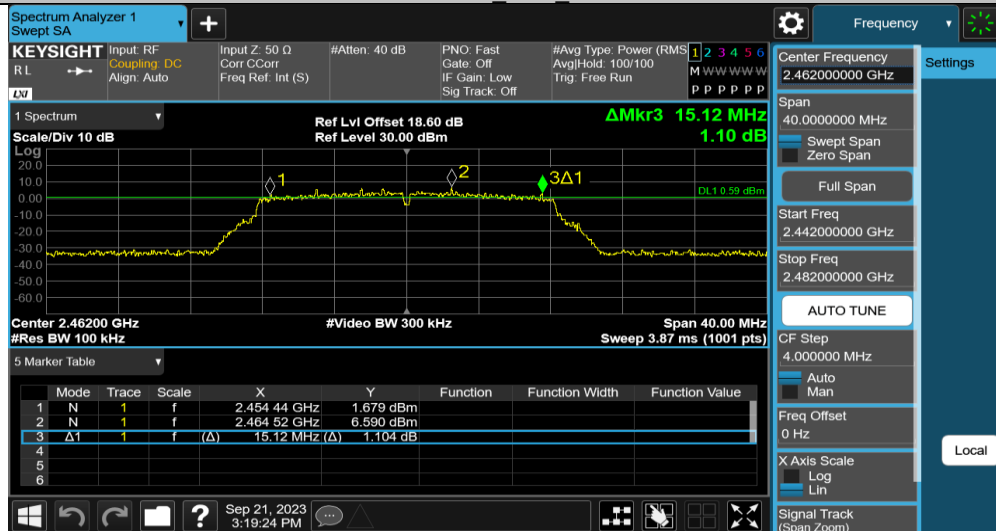
11G-CDD Ant1 2437



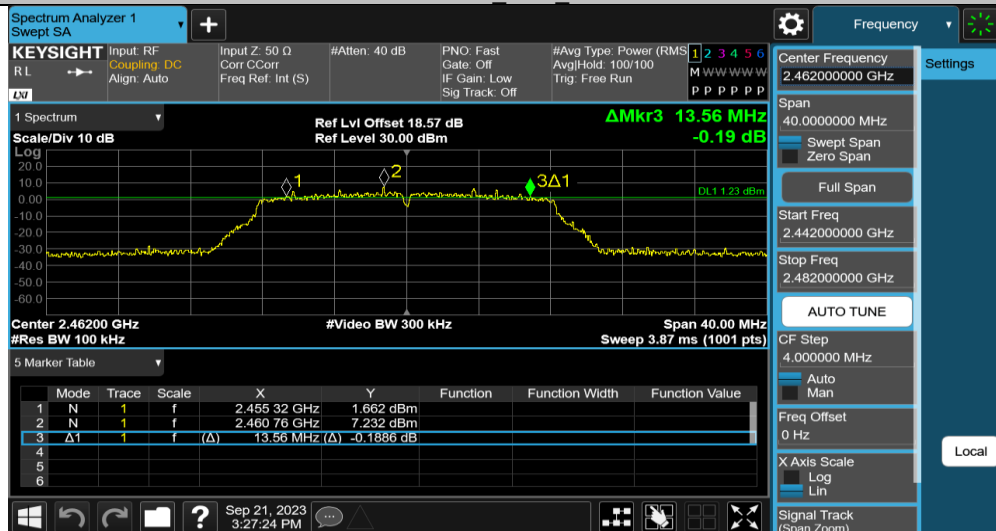
11G-CDD Ant2 2437



11G-CDD Ant1_2462



11G-CDD Ant2_2462



11N20MIMO_Ant1_2412