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:

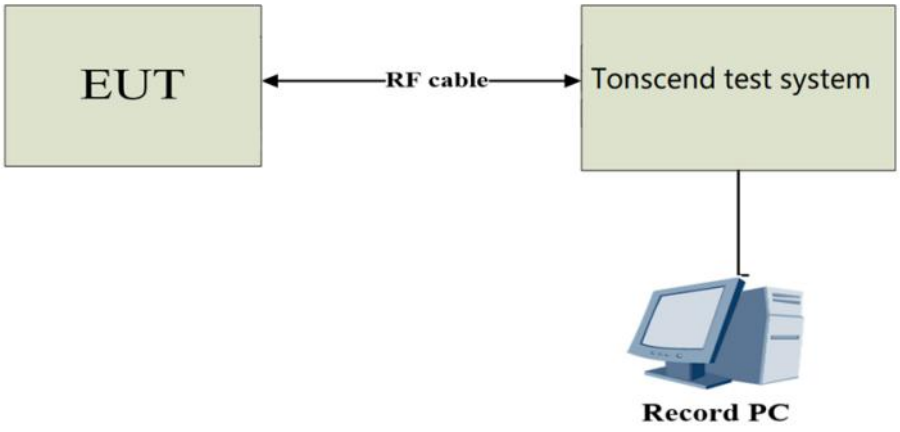
Centre Frequency	The centre frequency of the channel under test
RBW	100kHz
VBW	300kHz
Frequency span	2x Nominal Channel Bandwidth
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Time	Auto Couple

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	6.280	2409.200	2415.480	0.5	PASS
	Ant2	2412	5.680	2409.320	2415.000	0.5	PASS
	Ant1	2437	6.560	2433.440	2440.000	0.5	PASS
	Ant2	2437	7.040	2433.440	2440.480	0.5	PASS
	Ant1	2462	6.560	2458.440	2465.000	0.5	PASS
	Ant2	2462	7.560	2457.960	2465.520	0.5	PASS
11G-CDD	Ant1	2412	16.280	2403.840	2420.120	0.5	PASS
	Ant2	2412	16.280	2403.840	2420.120	0.5	PASS
	Ant1	2437	16.040	2428.840	2444.880	0.5	PASS
	Ant2	2437	16.280	2428.840	2445.120	0.5	PASS
	Ant1	2462	16.280	2453.840	2470.120	0.5	PASS
	Ant2	2462	16.280	2453.840	2470.120	0.5	PASS
11N20MIMO	Ant1	2412	17.520	2403.240	2420.760	0.5	PASS
	Ant2	2412	17.560	2403.200	2420.760	0.5	PASS
	Ant1	2437	17.560	2428.200	2445.760	0.5	PASS
	Ant2	2437	17.320	2428.440	2445.760	0.5	PASS
	Ant1	2462	17.560	2453.200	2470.760	0.5	PASS
	Ant2	2462	17.560	2453.200	2470.760	0.5	PASS
11N40MIMO	Ant1	2422	36.000	2403.840	2439.840	0.5	PASS
	Ant2	2422	35.920	2403.840	2439.760	0.5	PASS
	Ant1	2437	36.000	2418.840	2454.840	0.5	PASS
	Ant2	2437	36.320	2418.840	2455.160	0.5	PASS
	Ant1	2452	35.920	2433.840	2469.760	0.5	PASS
	Ant2	2452	36.000	2433.840	2469.840	0.5	PASS
11AX20MIMO	Ant1	2412	18.840	2402.560	2421.400	0.5	PASS
	Ant2	2412	18.880	2402.520	2421.400	0.5	PASS
	Ant1	2437	18.560	2427.600	2446.160	0.5	PASS
	Ant2	2437	18.680	2427.640	2446.320	0.5	PASS
	Ant1	2462	18.480	2452.880	2471.360	0.5	PASS
	Ant2	2462	18.720	2452.640	2471.360	0.5	PASS
11AX40MIMO	Ant1	2422	37.280	2403.200	2440.480	0.5	PASS
	Ant2	2422	37.200	2403.200	2440.400	0.5	PASS
	Ant1	2437	37.280	2418.200	2455.480	0.5	PASS
	Ant2	2437	37.200	2418.200	2455.400	0.5	PASS
	Ant1	2452	37.280	2433.120	2470.400	0.5	PASS
	Ant2	2452	35.120	2434.400	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

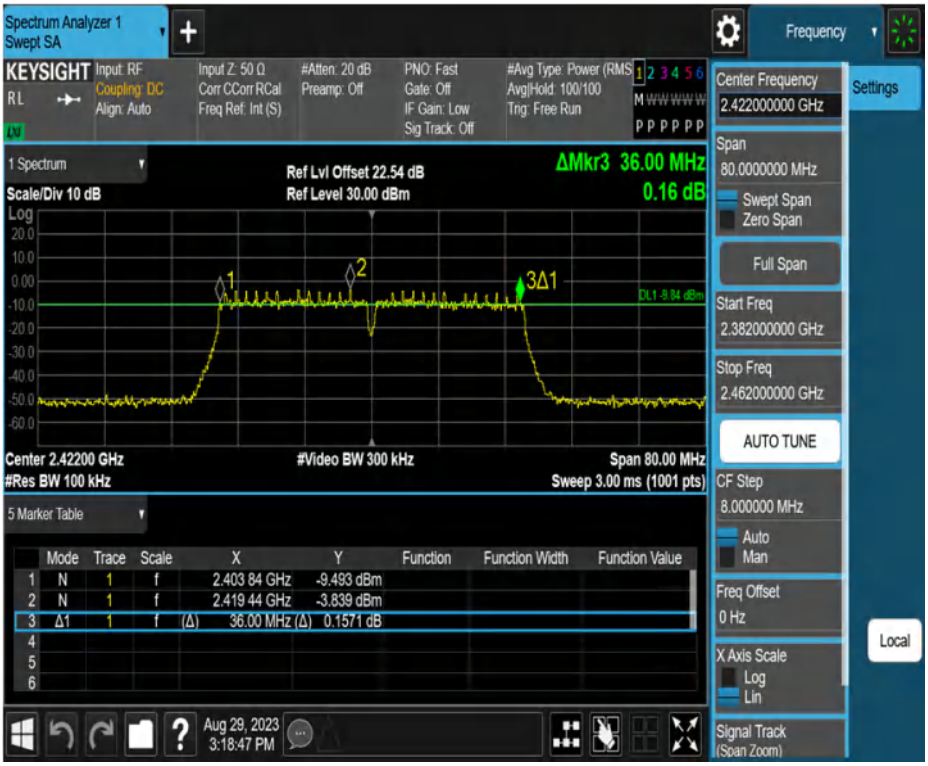
11N20MIMO_Ant1_2437

11N20MIMO_Ant2_2437

11N20MIMO_Ant1_2462

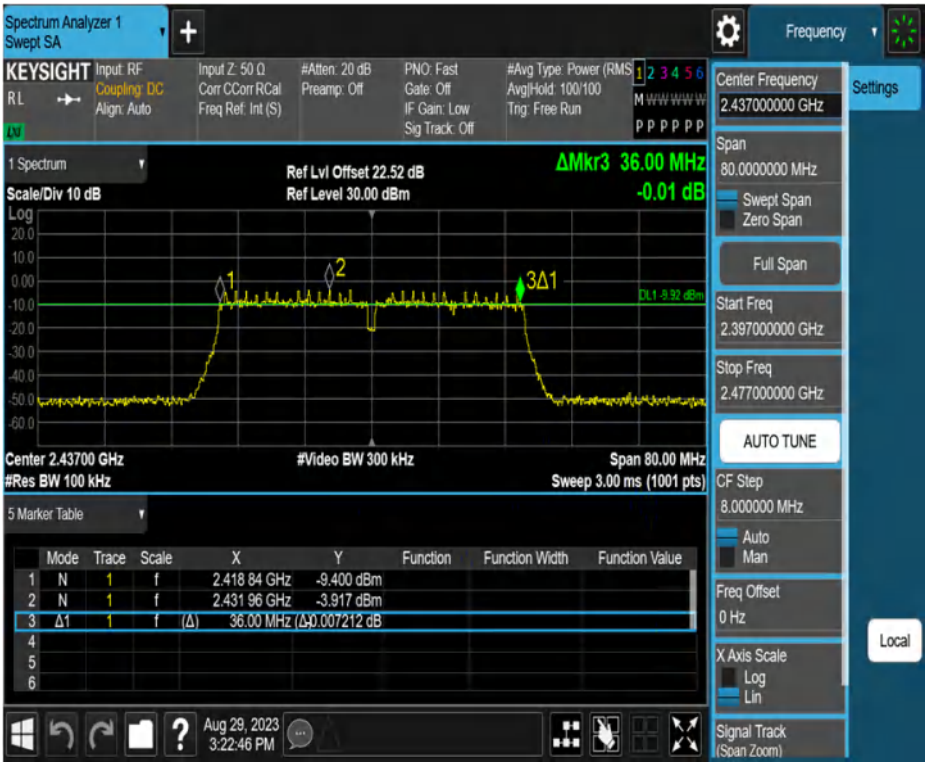
11N20MIMO_Ant2_2462

11N40MIMO_Ant1_2422



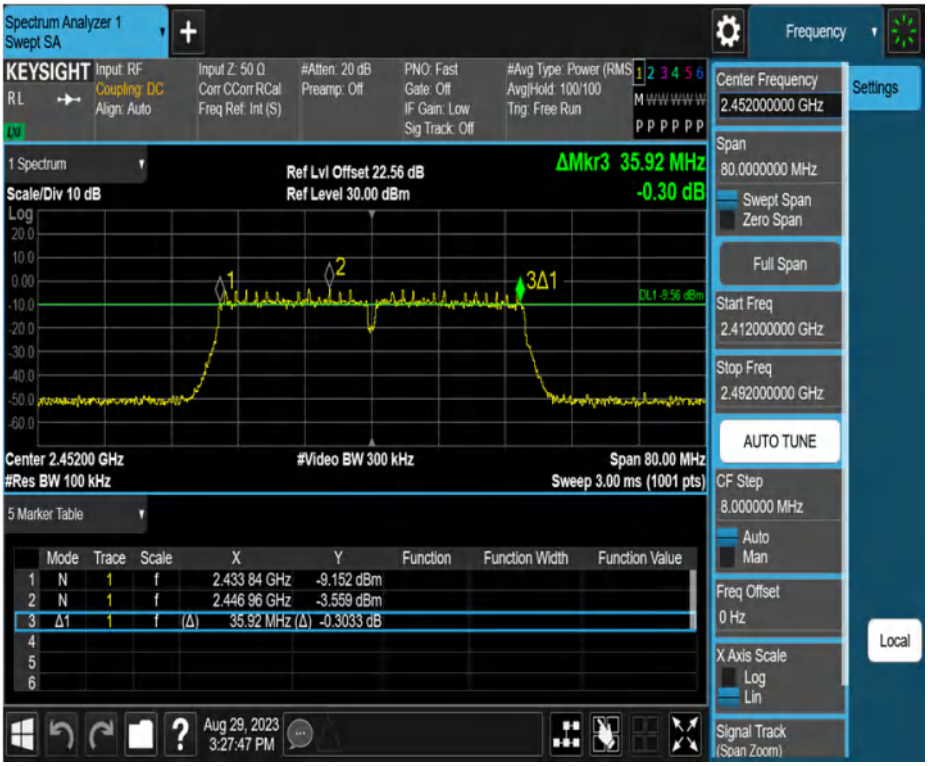
11N40MIMO_Ant2_2422

11N40MIMO_Ant1_2437



11N40MIMO_Ant2_2437

11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452

11AX20MIMO_Ant1_2412

11AX20MIMO_Ant2_2412

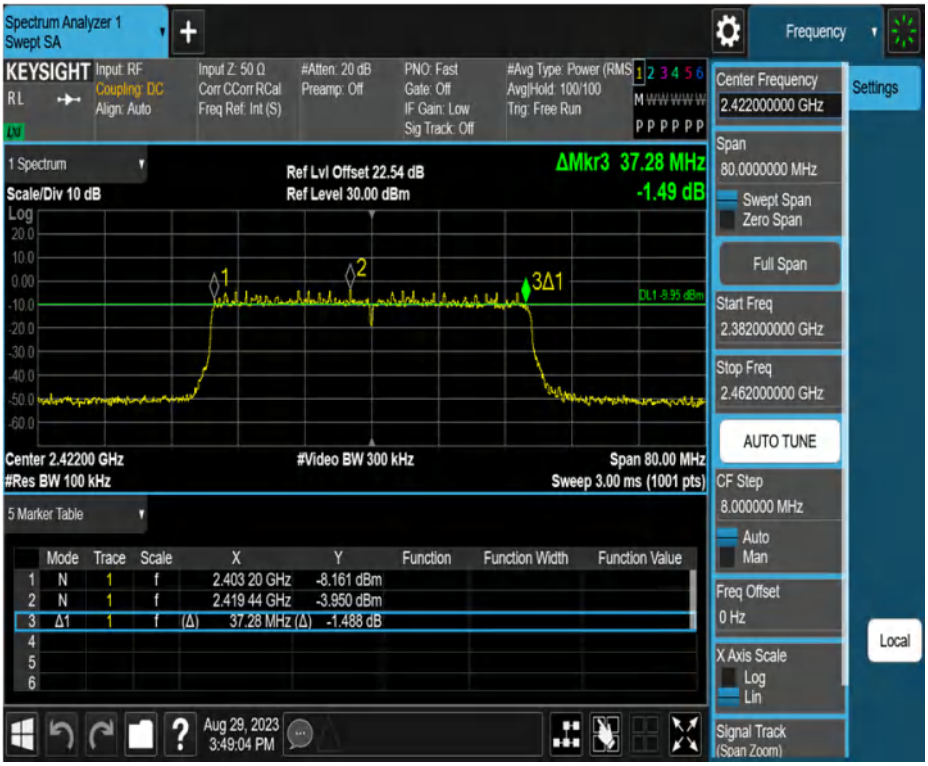
11AX20MIMO_Ant1_2437

11AX20MIMO_Ant2_2437

11AX20MIMO_Ant1_2462

11AX20MIMO_Ant2_2462

11AX40MIMO_Ant1_2422



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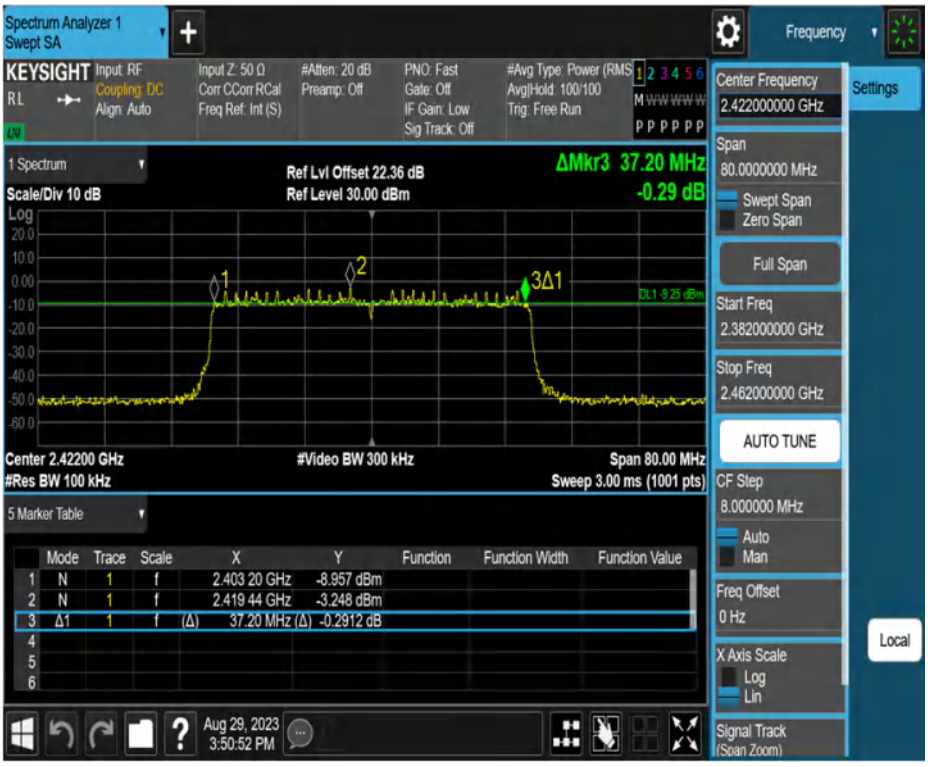

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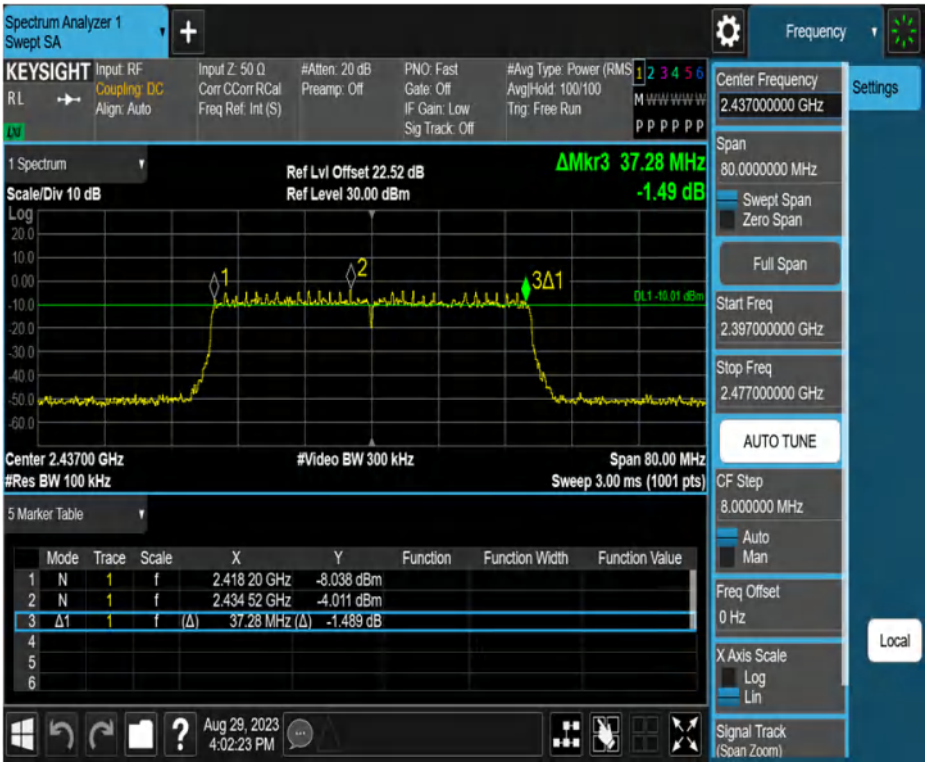

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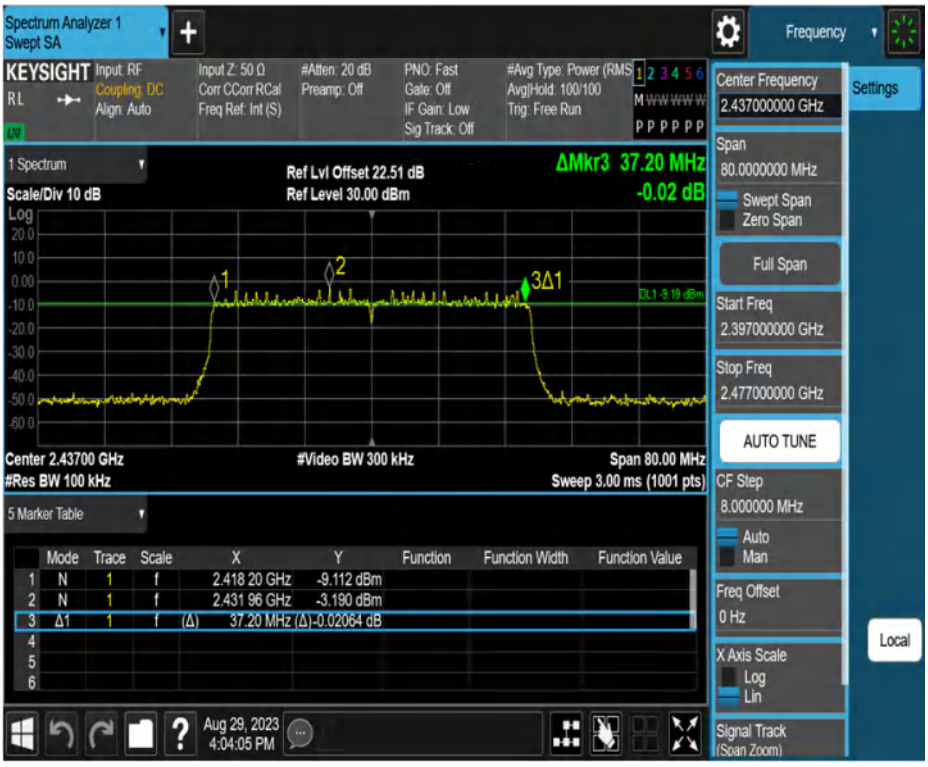
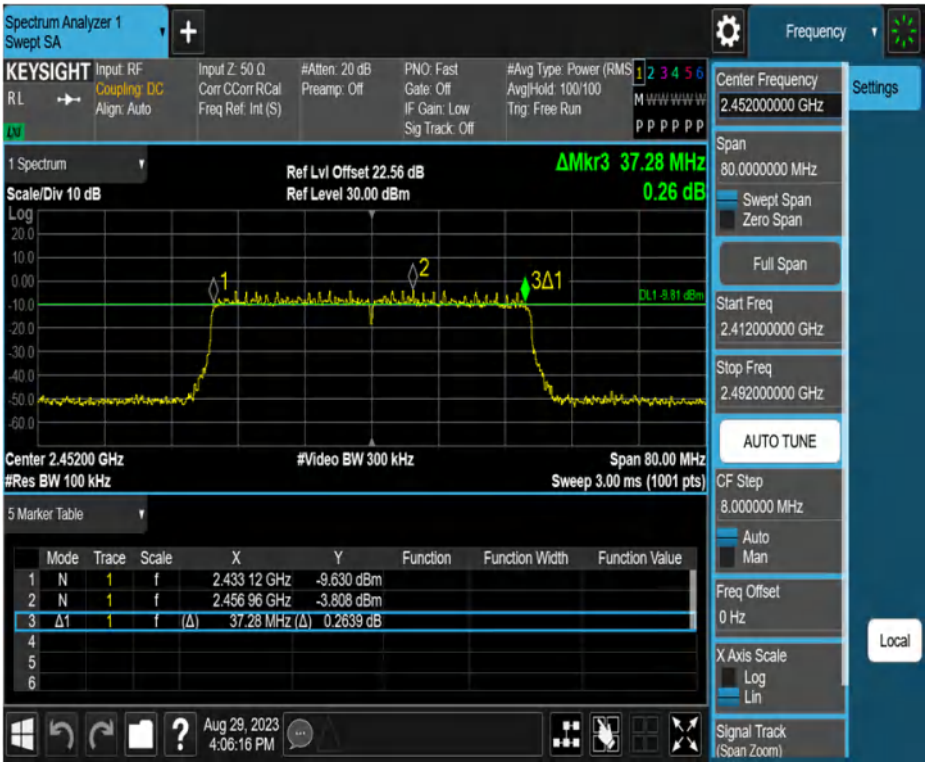


11AX40MIMO_Ant1_2452

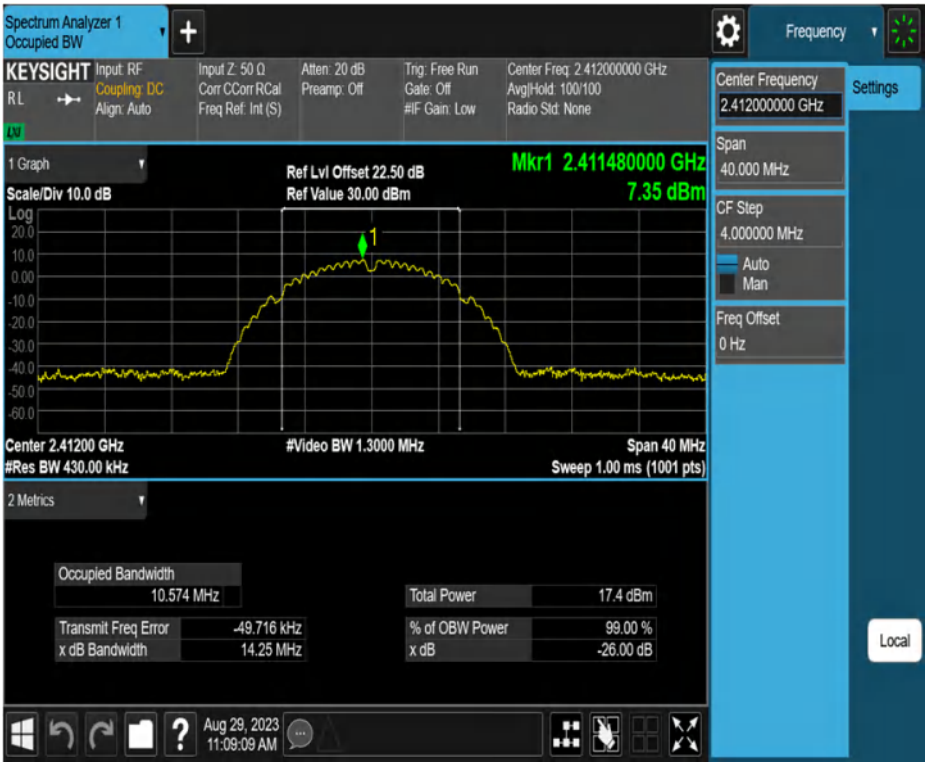


11AX40MIMO_Ant2_2452

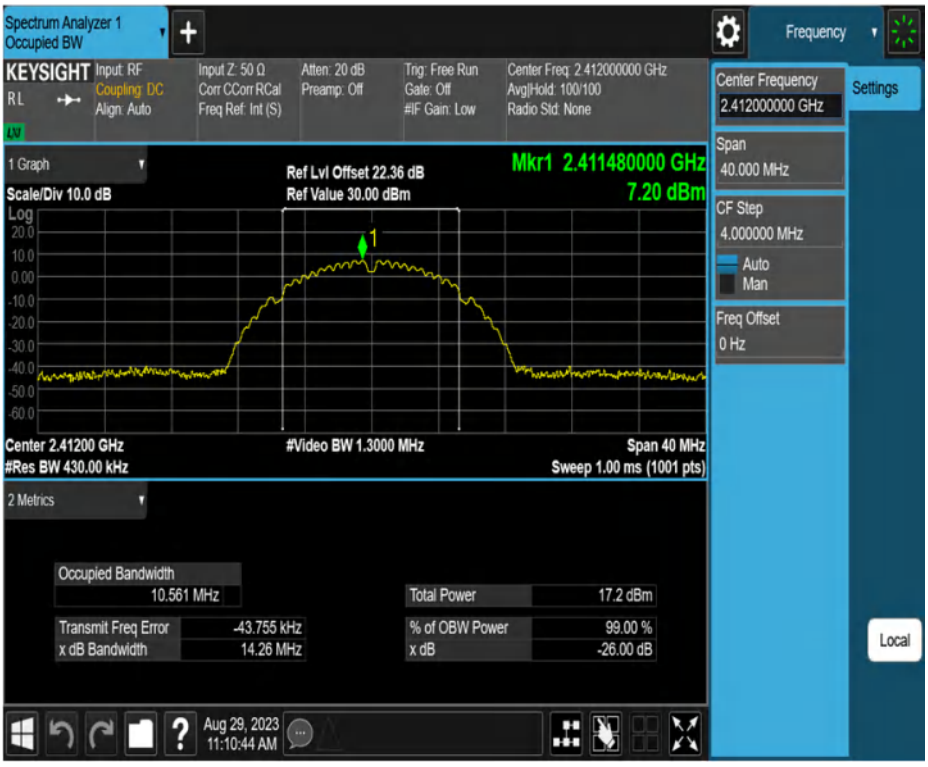
Occupied Channel Bandwidth

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	10.574	2406.6633	2417.2373	---	---
	Ant2	2412	10.561	2406.6758	2417.2368	---	---
	Ant1	2437	10.556	2431.6760	2442.2320	---	---
	Ant2	2437	10.633	2431.6402	2442.2732	---	---
	Ant1	2462	10.523	2456.6793	2467.2023	---	---
	Ant2	2462	10.539	2456.6803	2467.2193	---	---
11G-CDD	Ant1	2412	17.227	2403.5123	2420.7393	---	---
	Ant2	2412	17.102	2403.3777	2420.4797	---	---
	Ant1	2437	17.278	2428.4527	2445.7307	---	---
	Ant2	2437	17.037	2428.4146	2445.4516	---	---
	Ant1	2462	17.168	2453.4925	2470.6605	---	---
	Ant2	2462	17.150	2453.3492	2470.4992	---	---
11N20MIMO	Ant1	2412	18.254	2402.8669	2421.1209	---	---
	Ant2	2412	18.046	2402.9606	2421.0066	---	---
	Ant1	2437	18.271	2427.9031	2446.1741	---	---
	Ant2	2437	18.153	2427.9007	2446.0537	---	---
	Ant1	2462	18.232	2452.8666	2471.0986	---	---
	Ant2	2462	18.042	2452.9667	2471.0087	---	---
11N40MIMO	Ant1	2422	36.285	2403.8027	2440.0877	---	---
	Ant2	2422	36.473	2403.6616	2440.1346	---	---
	Ant1	2437	36.307	2418.7706	2455.0776	---	---
	Ant2	2437	36.427	2418.6953	2455.1223	---	---
	Ant1	2452	36.277	2433.7600	2470.0370	---	---
	Ant2	2452	36.376	2433.7092	2470.0852	---	---
11AX20MIMO	Ant1	2412	19.118	2402.4531	2421.5711	---	---
	Ant2	2412	19.241	2402.3382	2421.5792	---	---
	Ant1	2437	19.064	2427.4446	2446.5086	---	---
	Ant2	2437	19.155	2427.4540	2446.6090	---	---
	Ant1	2462	19.109	2452.4174	2471.5264	---	---
	Ant2	2462	19.113	2452.4175	2471.5305	---	---
11AX40MIMO	Ant1	2422	37.560	2403.1412	2440.7012	---	---
	Ant2	2422	37.557	2403.1788	2440.7358	---	---
	Ant1	2437	37.584	2418.1625	2455.7465	---	---
	Ant2	2437	37.604	2418.1774	2455.7814	---	---
	Ant1	2452	37.613	2433.1326	2470.7456	---	---
	Ant2	2452	37.541	2433.2043	2470.7453	---	---

11B-CDD_Ant1_2412



11B-CDD_Ant2_2412

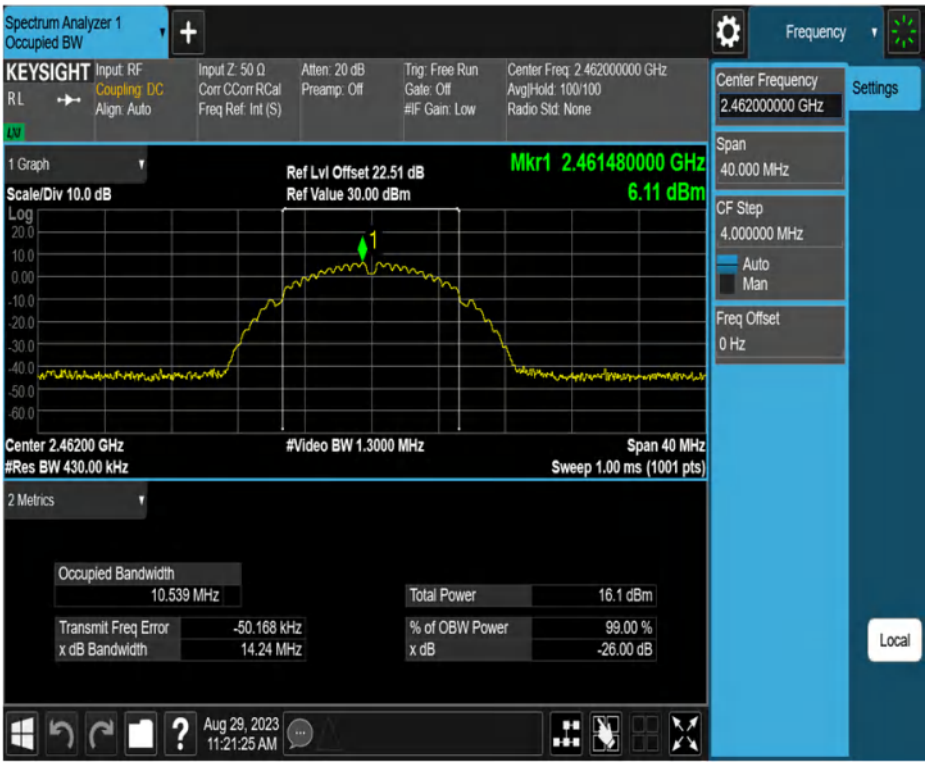


11B-CDD_Ant1_2437

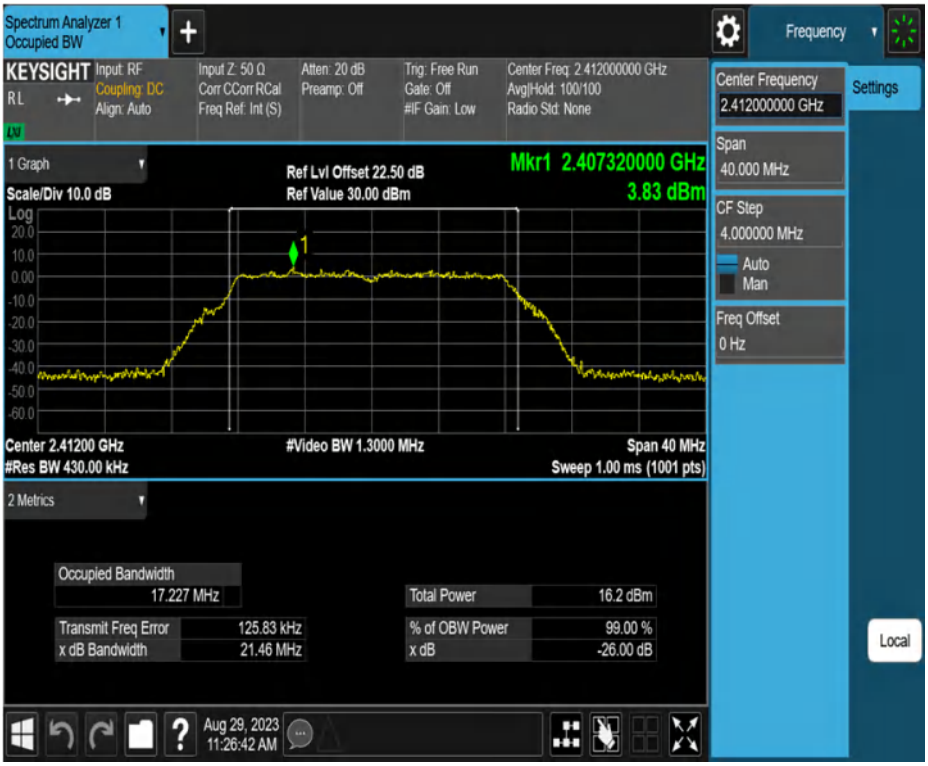
11B-CDD_Ant2_2437

11B-CDD_Ant1_2462

11B-CDD_Ant2_2462

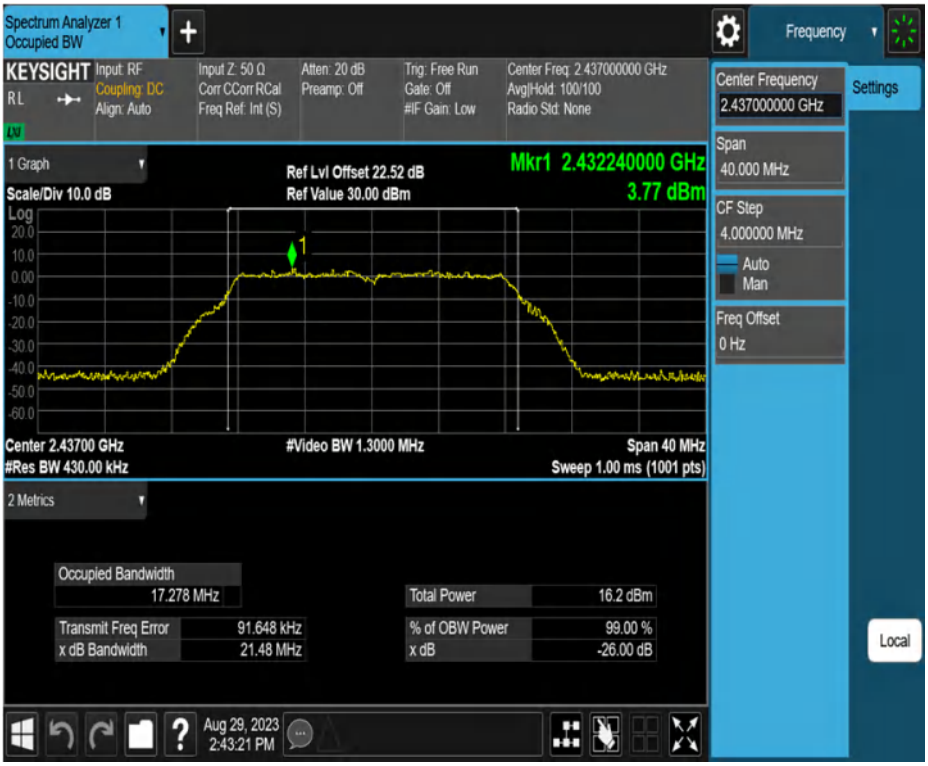


11G-CDD_Ant1_2412

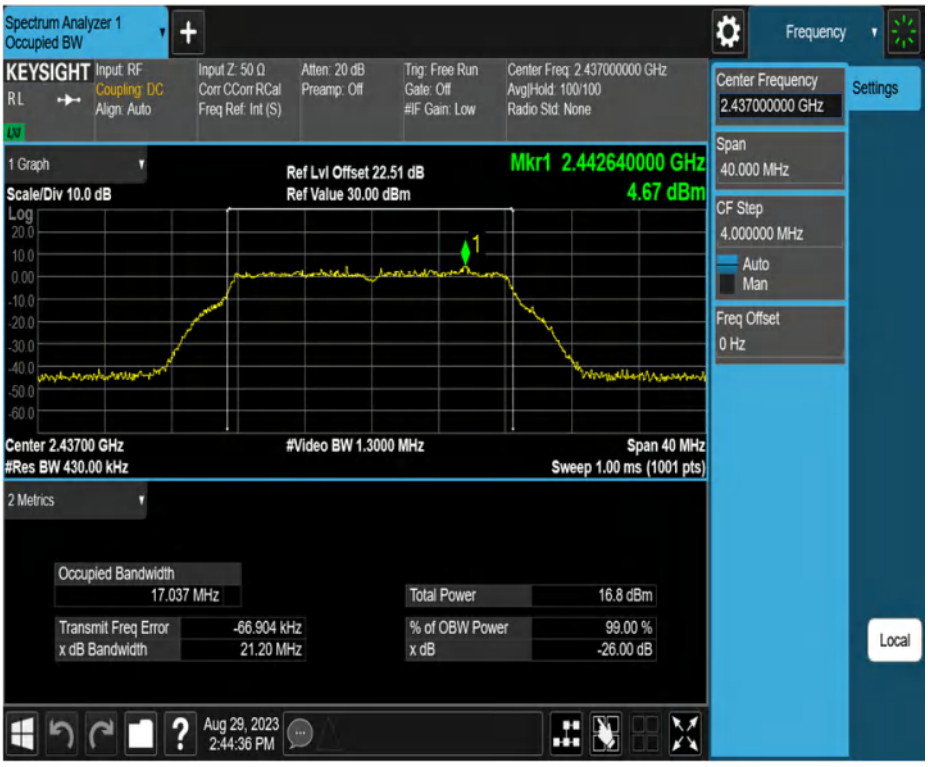


11G-CDD_Ant2_2412

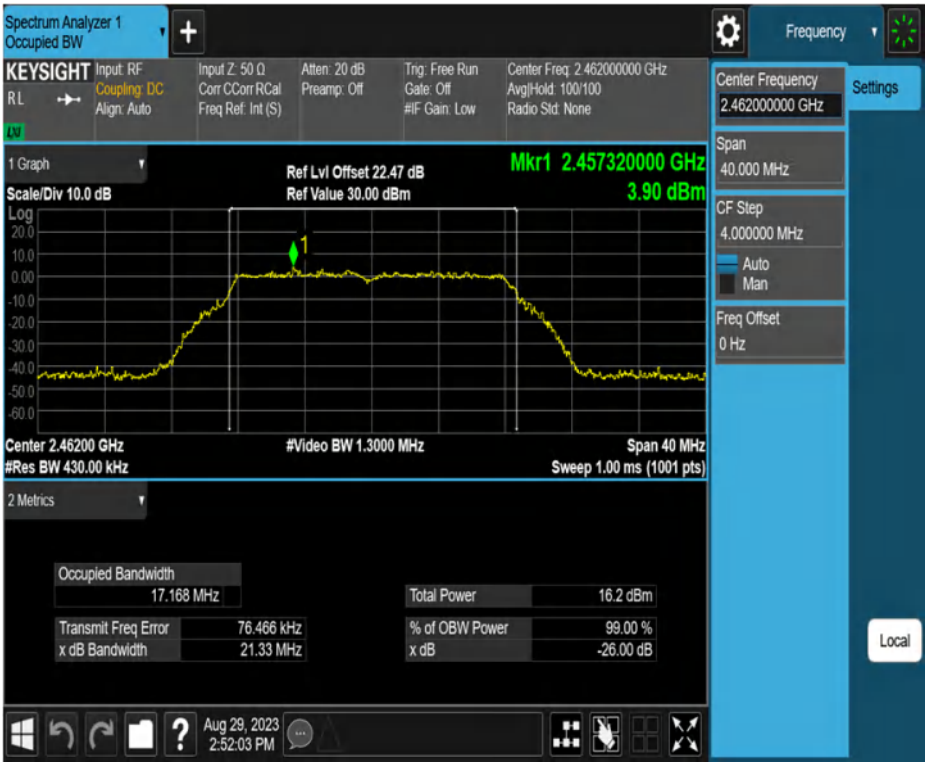
11G-CDD_Ant1_2437



11G-CDD_Ant2_2437

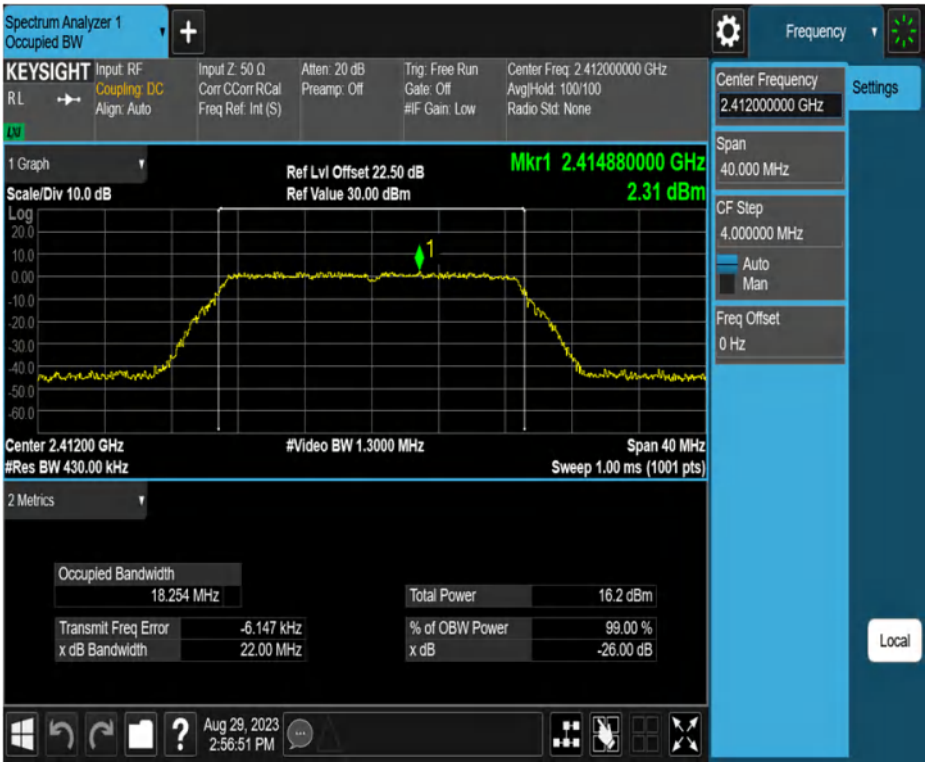


11G-CDD_Ant1_2462



11G-CDD_Ant2_2462

11N20MIMO_Ant1_2412

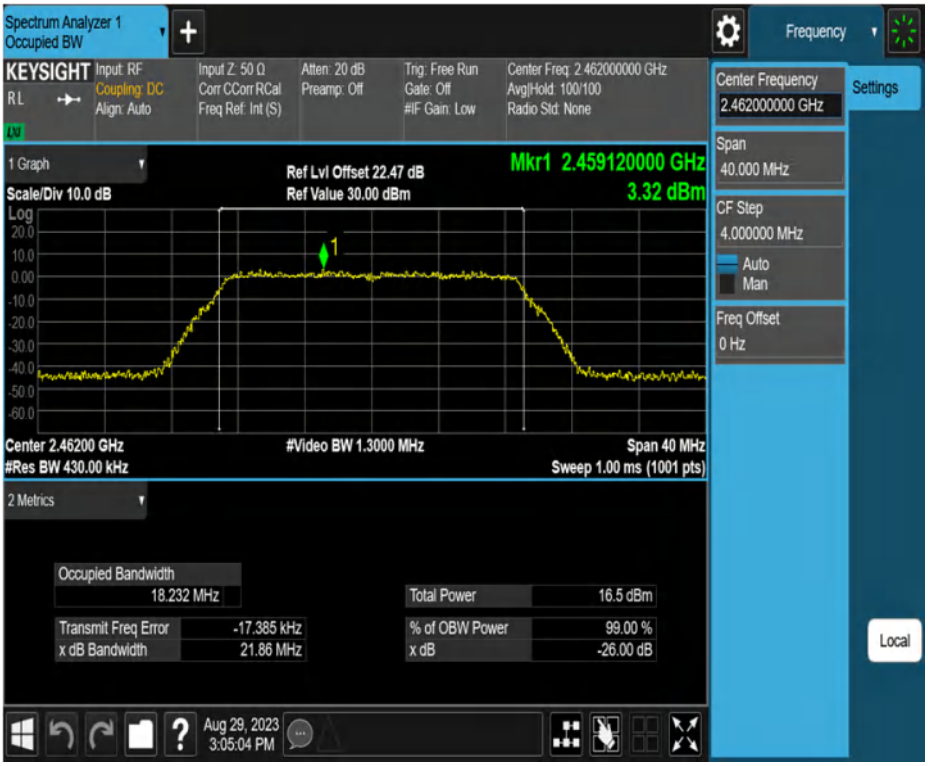


11N20MIMO_Ant2_2412

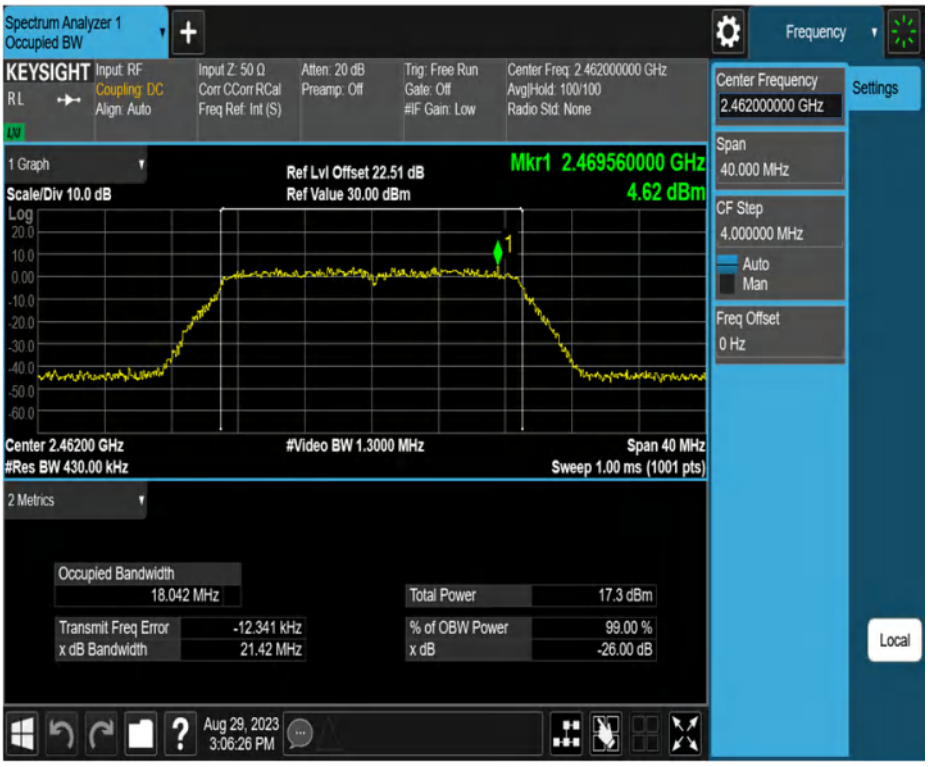
11N20MIMO_Ant1_2437

11N20MIMO_Ant2_2437

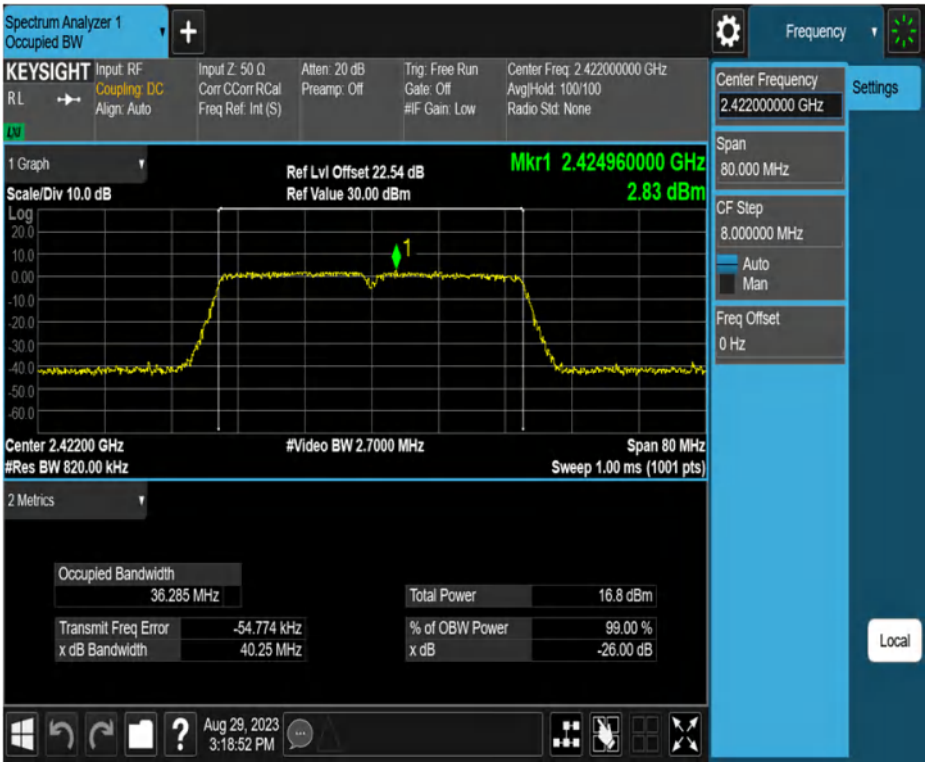
11N20MIMO_Ant1_2462



11N20MIMO_Ant2_2462

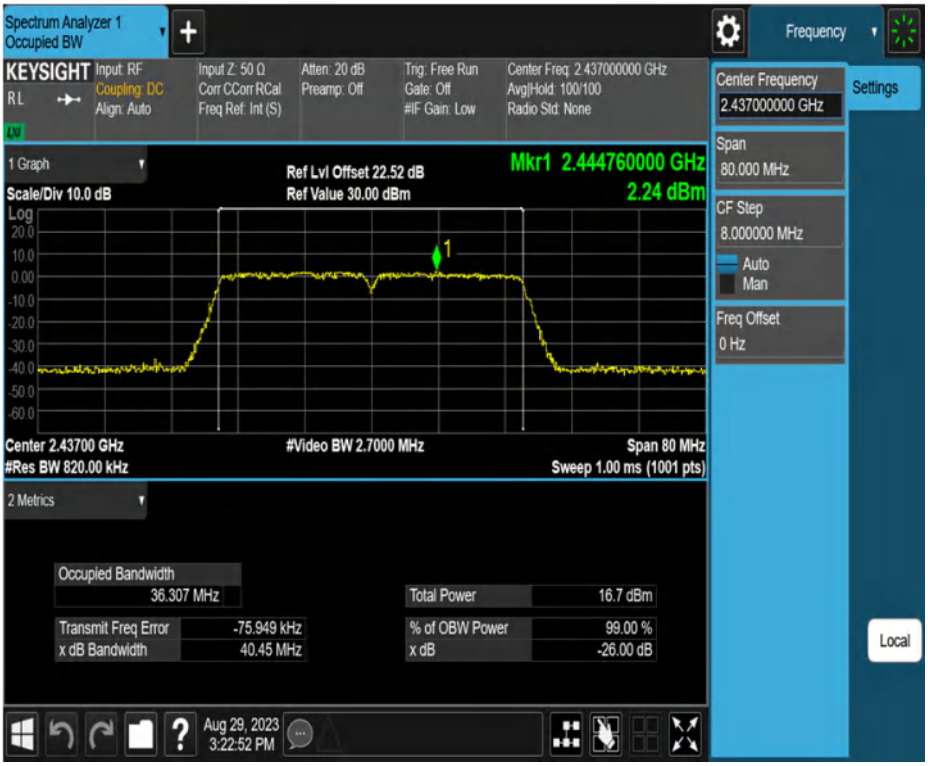


11N40MIMO_Ant1_2422

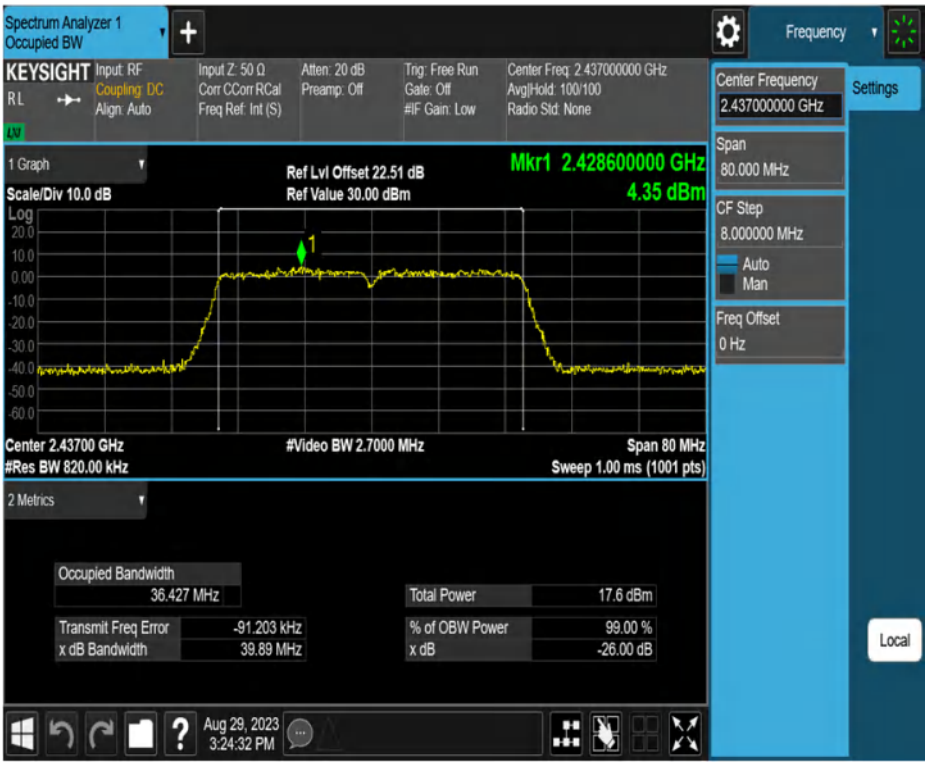


11N40MIMO_Ant2_2422

11N40MIMO_Ant1_2437

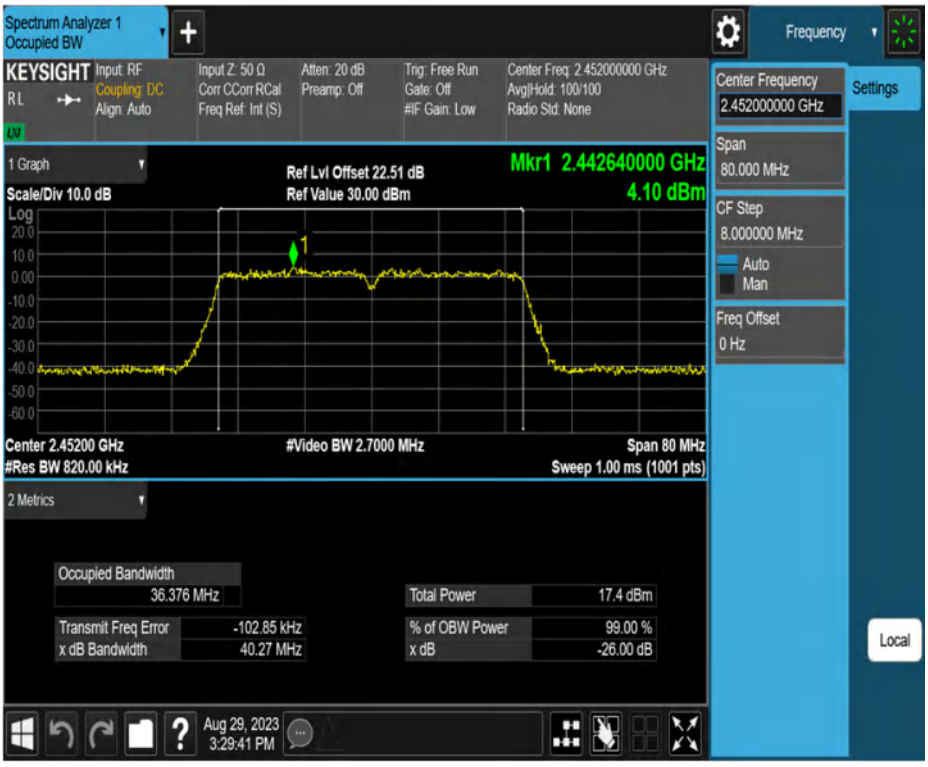


11N40MIMO_Ant2_2437

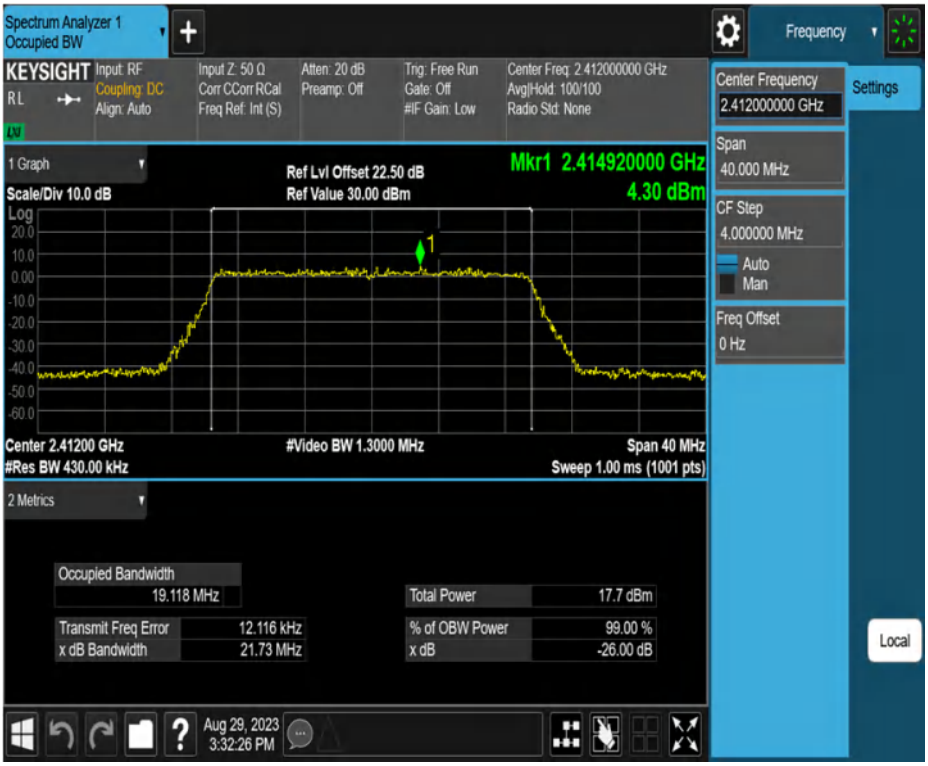


11N40MIMO_Ant1_2452

11N40MIMO_Ant2_2452



11AX20MIMO_Ant1_2412



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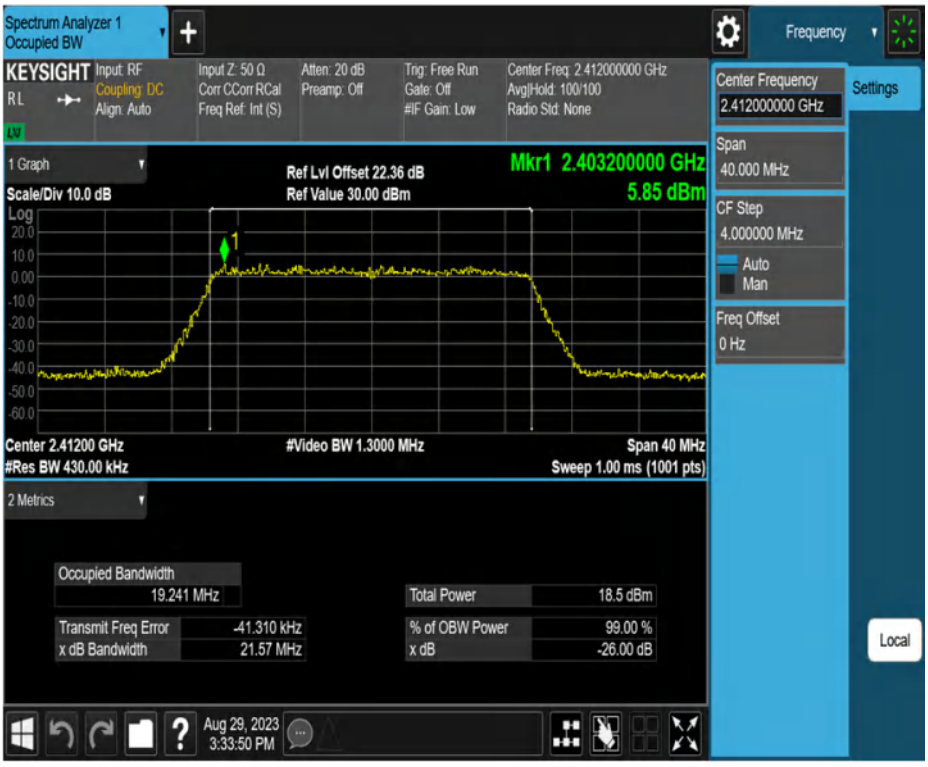

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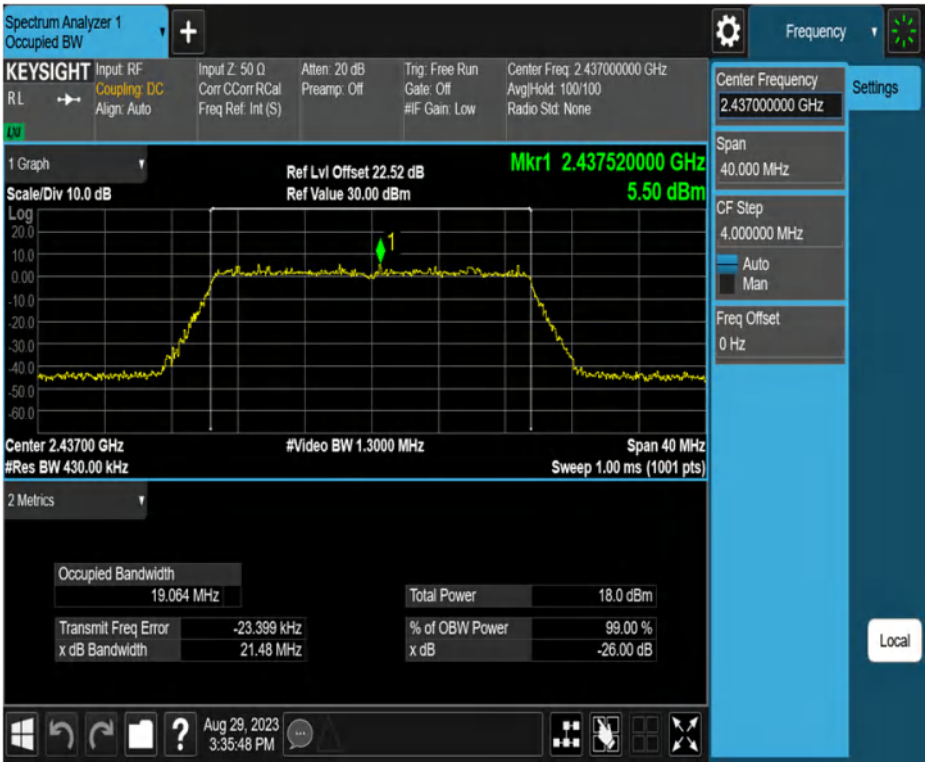

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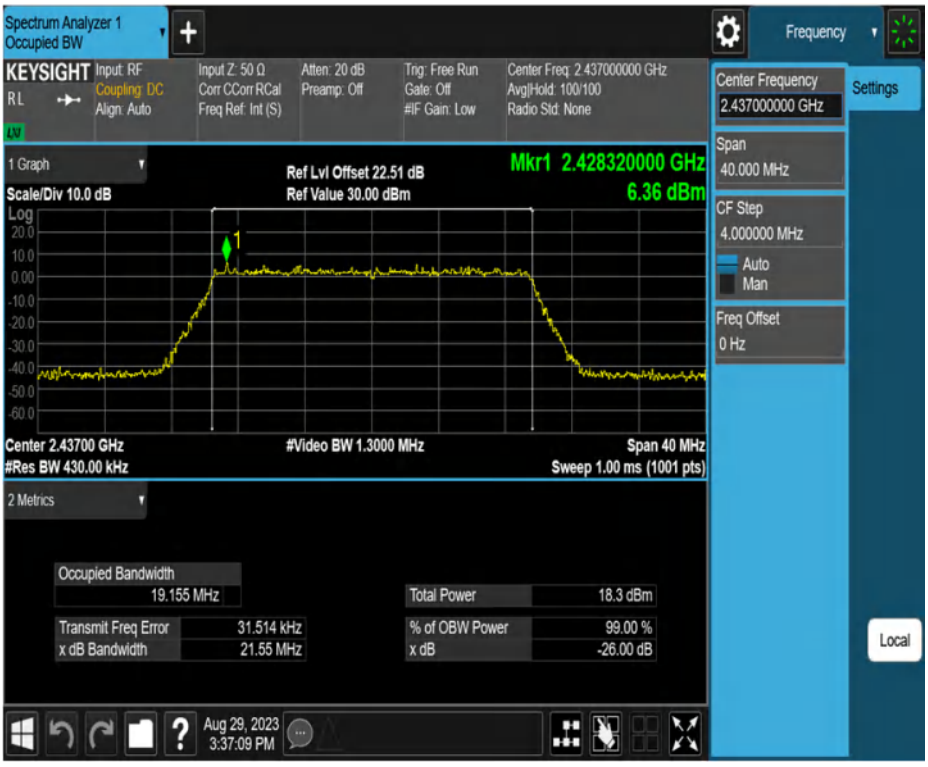

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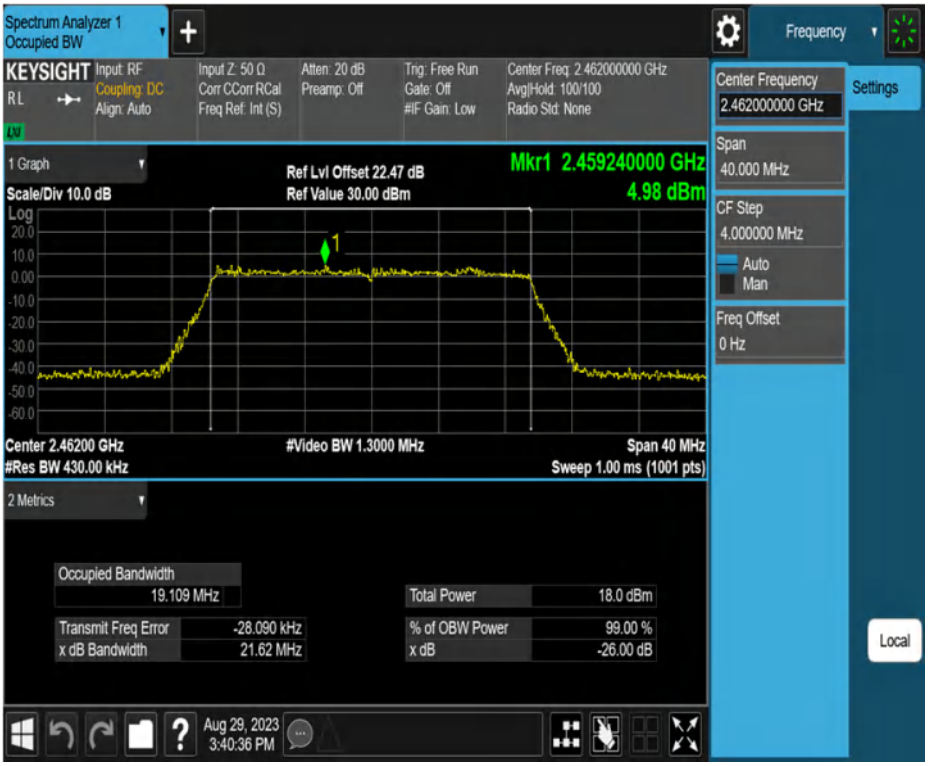
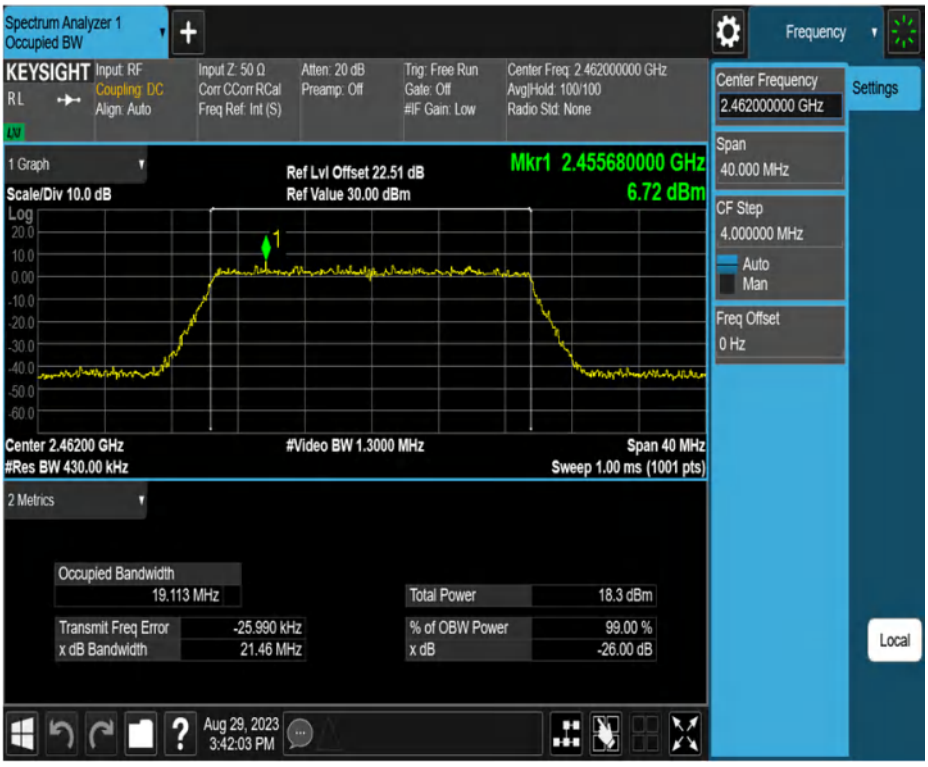


11AX20MIMO_Ant2_2462



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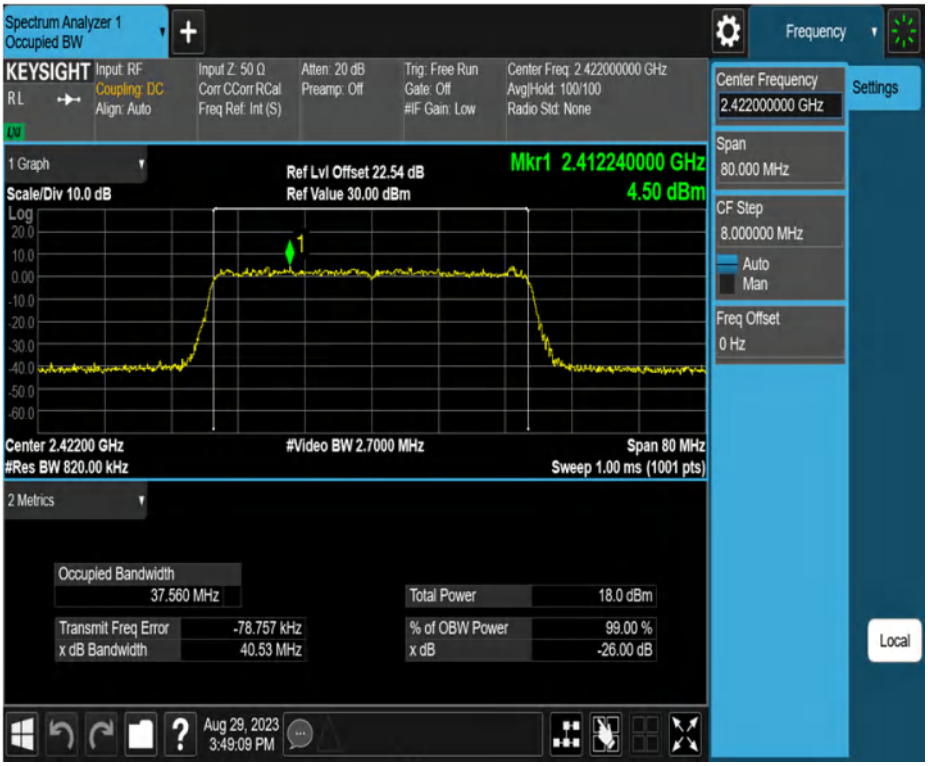

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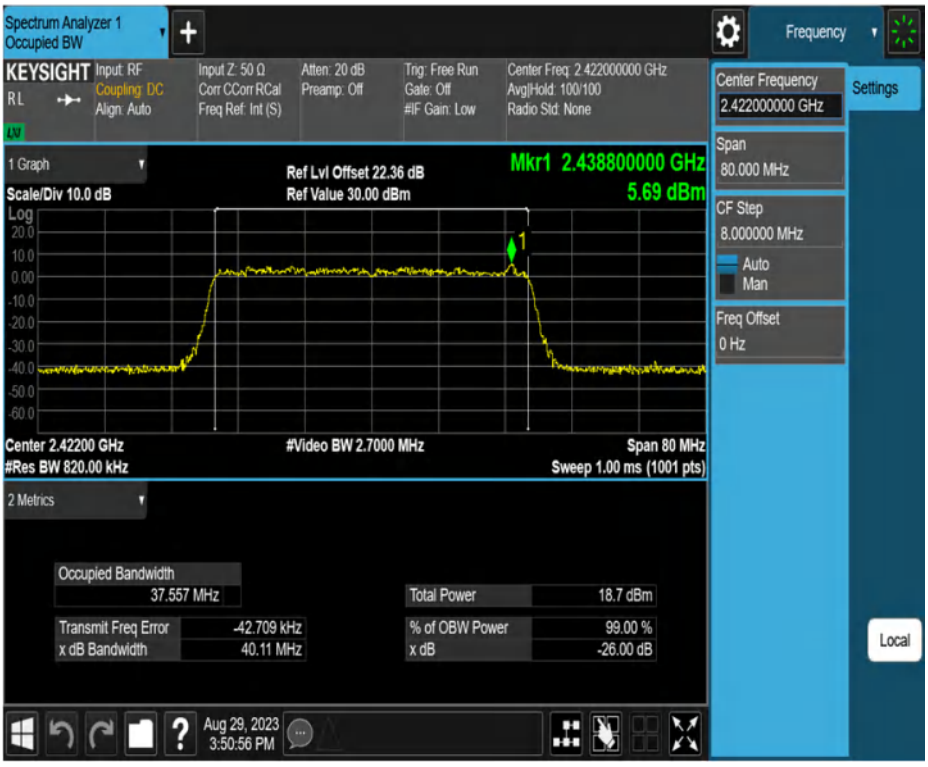
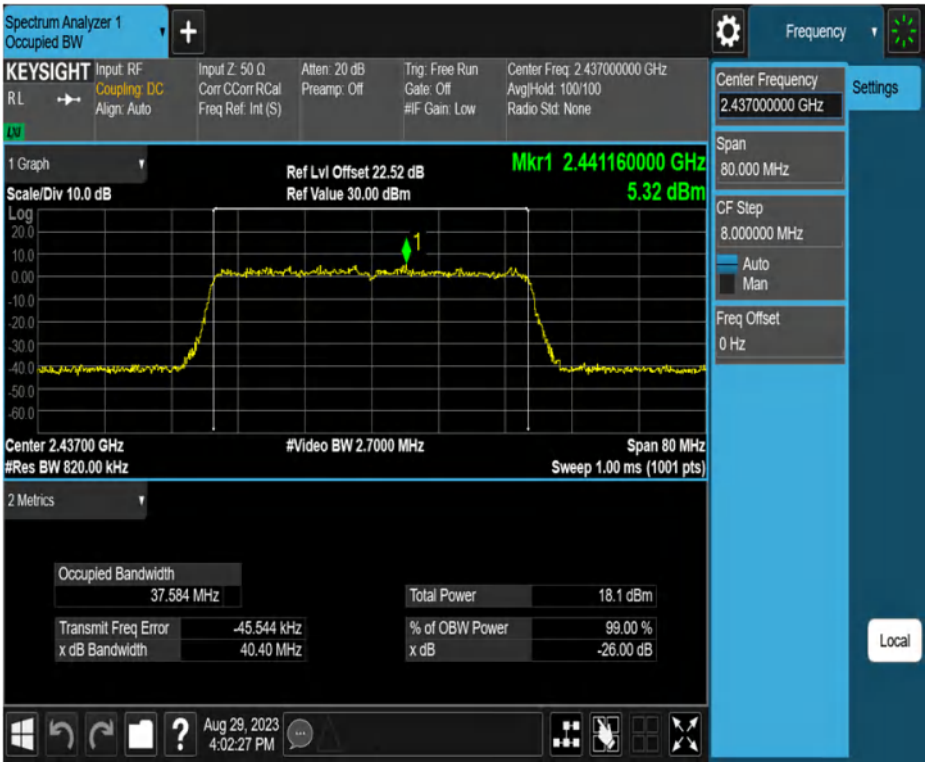


11AX40MIMO_Ant1_2437



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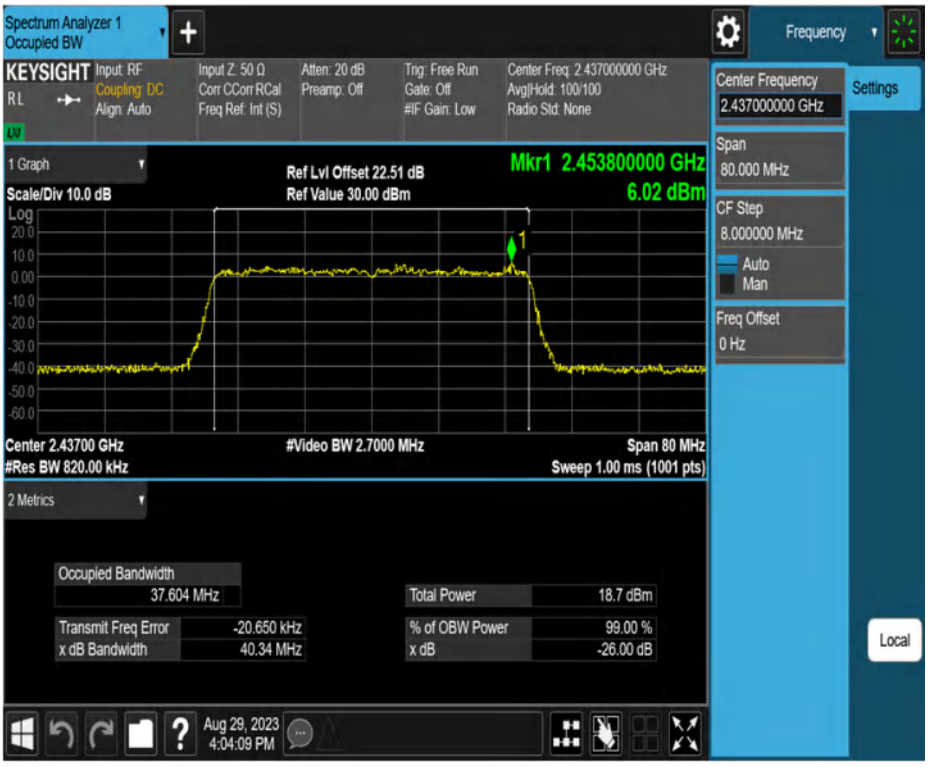
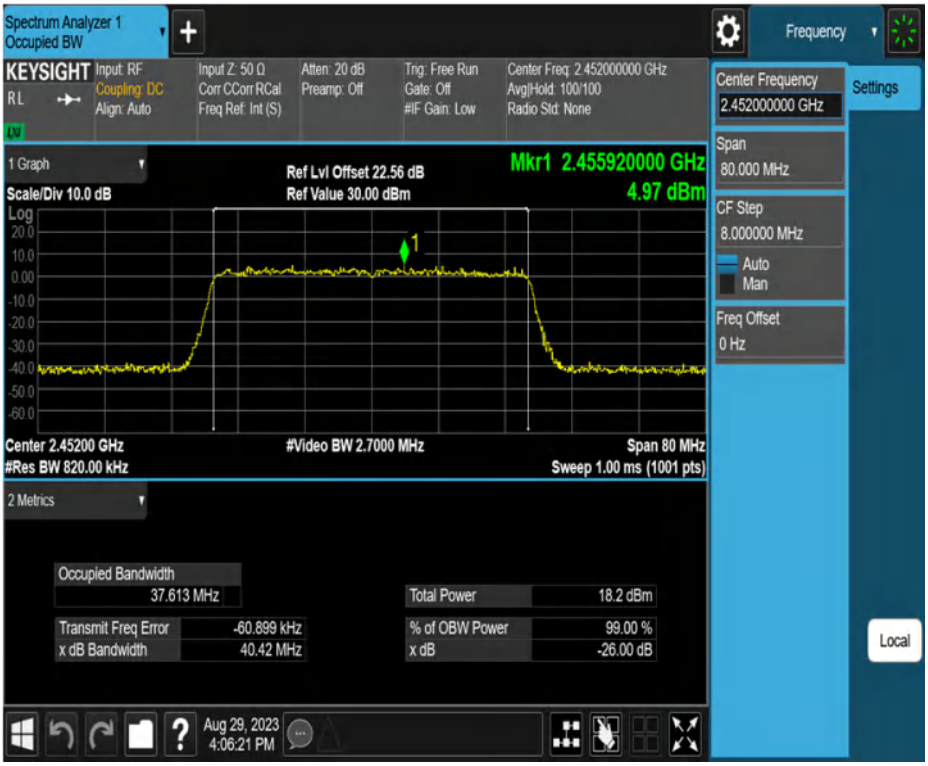
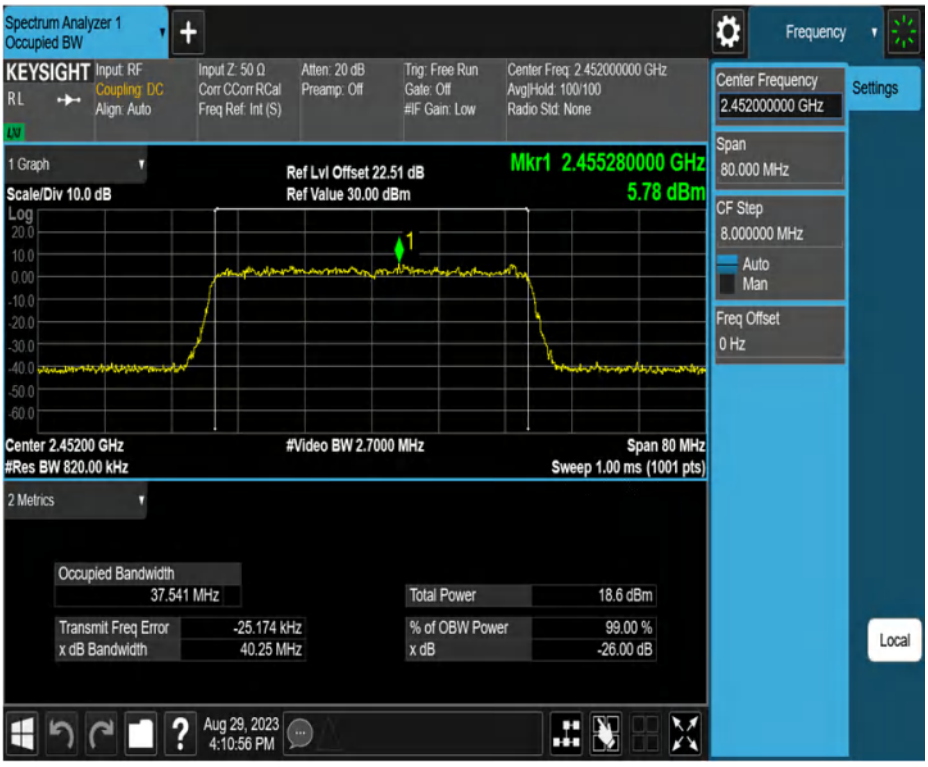


11AX40MIMO_Ant1_2452



11AX40MIMO_Ant2_2452



3.5 Maximum conducted output power

3.5.1 Limit

For systems using digital modulation in the 2400~2483.5MHz, The Maximum output Power shall not exceed 1W(30dBm)

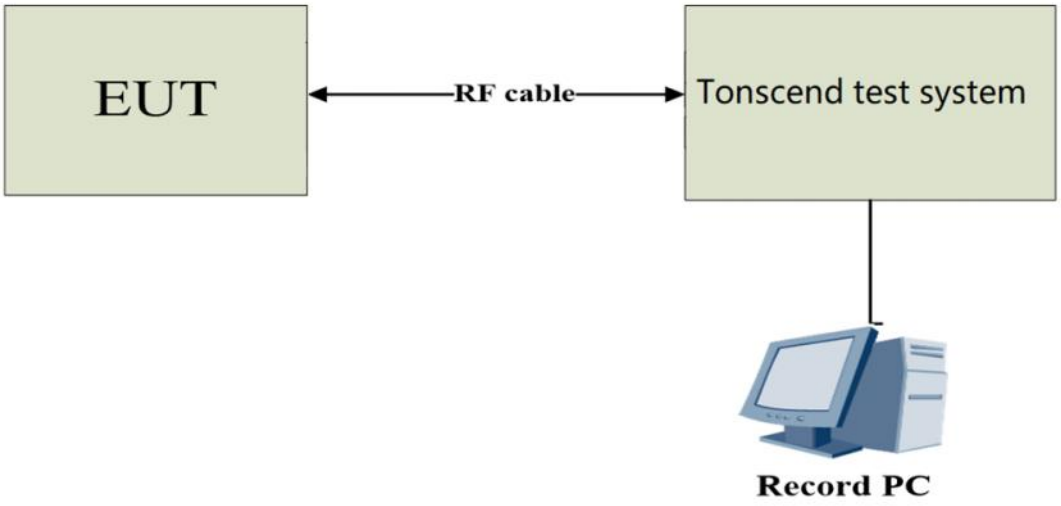
3.5.2 Test Procedure

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 directly connected to the tonscend test system and antenna output port as show in the block diagram below.

b) The maximum conducted output power was performed in accordance with method 11.9.1.3 (for peak power) of ANSI C63.10-2013 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

3.5.3 Test Setup



3.5.4 Table of Parameters of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

No beamforming

Test Software	accessMTool_REL_3_3_0_2		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	50	50	50
IEEE 802.11g	40	40	40
IEEE 802.11n (20MHz)	30	30	30
IEEE 802.11ax (20MHz)	30	30	30
Frequency (MHz)	2422	2437	2452
IEEE 802.11n (40MHz)	30	30	30
IEEE 802.11ax (40MHz)	30	30	30

Beamforming

Test Software	accessMTool_REL_3_3_0_2		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	40	40	40
IEEE 802.11g	30	30	30
IEEE 802.11n (20MHz)	20	20	20
IEEE 802.11ax (20MHz)	20	20	20
Frequency (MHz)	2422	2437	2452
IEEE 802.11n (40MHz)	20	20	20
IEEE 802.11ax (40MHz)	20	20	20

3.5.5 The Result

No beamforming

Test Mode	Antenna	Frequency[MHz]	Maximum conducted output Power [dBm]	Limit [dBm]	Verdict
11B-CDD	Ant1	2412	15.25	≤29.12	PASS
	Ant2	2412	15.02	≤29.12	PASS
	total	2412	18.15	≤29.12	PASS
	Ant1	2437	15.60	≤29.12	PASS
	Ant2	2437	15.85	≤29.12	PASS
	total	2437	18.74	≤29.12	PASS
	Ant1	2462	15.57	≤29.12	PASS
	Ant2	2462	15.81	≤29.12	PASS
	total	2462	18.70	≤29.12	PASS
11G-CDD	Ant1	2412	15.57	≤29.12	PASS
	Ant2	2412	16.22	≤29.12	PASS
	total	2412	**18.92**	≤29.12	PASS
	Ant1	2437	15.54	≤29.12	PASS
	Ant2	2437	16.13	≤29.12	PASS
	total	2437	18.86	≤29.12	PASS
	Ant1	2462	15.59	≤29.12	PASS
	Ant2	2462	16.11	≤29.12	PASS
	total	2462	18.87	≤29.12	PASS
11N20MIMO	Ant1	2412	13.80	≤29.12	PASS
	Ant2	2412	14.56	≤29.12	PASS
	total	2412	17.21	≤29.12	PASS
	Ant1	2437	13.92	≤29.12	PASS
	Ant2	2437	14.71	≤29.12	PASS
	total	2437	17.34	≤29.12	PASS
	Ant1	2462	13.99	≤29.12	PASS
	Ant2	2462	14.59	≤29.12	PASS
	total	2462	17.31	≤29.12	PASS
11N40MIMO	Ant1	2422	13.37	≤29.12	PASS
	Ant2	2422	13.99	≤29.12	PASS
	total	2422	16.70	≤29.12	PASS
	Ant1	2437	13.48	≤29.12	PASS
	Ant2	2437	14.15	≤29.12	PASS
	total	2437	16.84	≤29.12	PASS
	Ant1	2452	13.66	≤29.12	PASS
	Ant2	2452	13.99	≤29.12	PASS
	total	2452	16.84	≤29.12	PASS
11AX20MIMO	Ant1	2412	13.77	≤29.12	PASS
	Ant2	2412	14.21	≤29.12	PASS

	total	2412	17.01	≤29.12	PASS
	Ant1	2437	13.73	≤29.12	PASS
	Ant2	2437	14.18	≤29.12	PASS
	total	2437	16.97	≤29.12	PASS
	Ant1	2462	13.78	≤29.12	PASS
	Ant2	2462	14.07	≤29.12	PASS
	total	2462	16.94	≤29.12	PASS
11AX40MIMO	Ant1	2422	13.18	≤29.12	PASS
	Ant2	2422	13.73	≤29.12	PASS
	total	2422	16.47	≤29.12	PASS
	Ant1	2437	13.27	≤29.12	PASS
	Ant2	2437	13.71	≤29.12	PASS
	total	2437	16.51	≤29.12	PASS
	Ant1	2452	13.40	≤29.12	PASS
	Ant2	2452	13.53	≤29.12	PASS
	total	2452	16.48	≤29.12	PASS

For MIMO mode

Frequency[MHz]	ANT 1 Antenna Gain (dBi)	ANT 2 Antenna Gain (dBi)	Correlated chains directional gain (dBi)	Conducted Power Limit (dBm)
2412-2462	3.76	3.98	6.88	29.12

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.]
Directional gain = 10log[$(10^{3.76/20} + 10^{3.98/20})^2/N_{ANT}$] dBi=6.88

Beamforming

Test Mode	Antenna	Frequency[MHz]	Maximum conducted output Power [dBm]	Limit [dBm]	Verdict
11B-CDD	Ant1	2412	12.72	≤26.62	PASS
	Ant2	2412	12.49	≤26.62	PASS
	total	2412	15.62	≤26.62	PASS
	Ant1	2437	13.05	≤26.62	PASS
	Ant2	2437	13.30	≤26.62	PASS
	total	2437	16.19	≤26.62	PASS
	Ant1	2462	12.96	≤26.62	PASS
	Ant2	2462	13.20	≤26.62	PASS
	total	2462	16.09	≤26.62	PASS
11G-CDD	Ant1	2412	12.84	≤26.62	PASS
	Ant2	2412	13.49	≤26.62	PASS
	total	2412	16.19	≤26.62	PASS
	Ant1	2437	12.90	≤26.62	PASS
	Ant2	2437	13.49	≤26.62	PASS
	total	2437	16.22	≤26.62	PASS
	Ant1	2462	13.02	≤26.62	PASS
	Ant2	2462	13.54	≤26.62	PASS
	total	2462	16.30	≤26.62	PASS
11N20MIMO	Ant1	2412	11.24	≤26.62	PASS
	Ant2	2412	12.00	≤26.62	PASS
	total	2412	14.65	≤26.62	PASS
	Ant1	2437	11.18	≤26.62	PASS
	Ant2	2437	11.97	≤26.62	PASS
	total	2437	14.60	≤26.62	PASS
	Ant1	2462	11.33	≤26.62	PASS
	Ant2	2462	11.93	≤26.62	PASS
	total	2462	14.65	≤26.62	PASS
11N40MIMO	Ant1	2422	10.76	≤26.62	PASS
	Ant2	2422	11.38	≤26.62	PASS
	total	2422	14.09	≤26.62	PASS
	Ant1	2437	10.94	≤26.62	PASS
	Ant2	2437	11.61	≤26.62	PASS
	total	2437	14.30	≤26.62	PASS
	Ant1	2452	10.93	≤26.62	PASS
	Ant2	2452	11.26	≤26.62	PASS
	total	2452	14.11	≤26.62	PASS
11AX20MIMO	Ant1	2412	11.19	≤26.62	PASS
	Ant2	2412	11.63	≤26.62	PASS
	total	2412	14.43	≤26.62	PASS

	Ant1	2437	10.90	≤26.62	PASS
	Ant2	2437	11.35	≤26.62	PASS
	total	2437	14.14	≤26.62	PASS
	Ant1	2462	11.26	≤26.62	PASS
	Ant2	2462	11.55	≤26.62	PASS
	total	2462	14.42	≤26.62	PASS
11AX40MIMO	Ant1	2422	10.53	≤26.62	PASS
	Ant2	2422	11.08	≤26.62	PASS
	total	2422	13.82	≤26.62	PASS
	Ant1	2437	10.70	≤26.62	PASS
	Ant2	2437	11.14	≤26.62	PASS
	total	2437	13.94	≤26.62	PASS
	Ant1	2452	10.74	≤26.62	PASS
	Ant2	2452	10.87	≤26.62	PASS
	total	2452	13.82	≤26.62	PASS

For MIMO mode

Frequency[MHz]	ANT 1 Antenna Gain (dBi)	ANT 2 Antenna Gain (dBi)	Beamforming Gain (dB)	Correlated chains directional gain (dBi)	Conducted Power Limit (dBm)
2412-2462	3.76	3.98	2.5	9.38	26.62
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.]					
Directional gain = 10log[$(10^{3.76/20} + 10^{3.98/20})^2/N_{ANT}$] dBi=6.88					

3.6 Power Spectral Density

3.6.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmitting.

3.6.2 Test Procedure

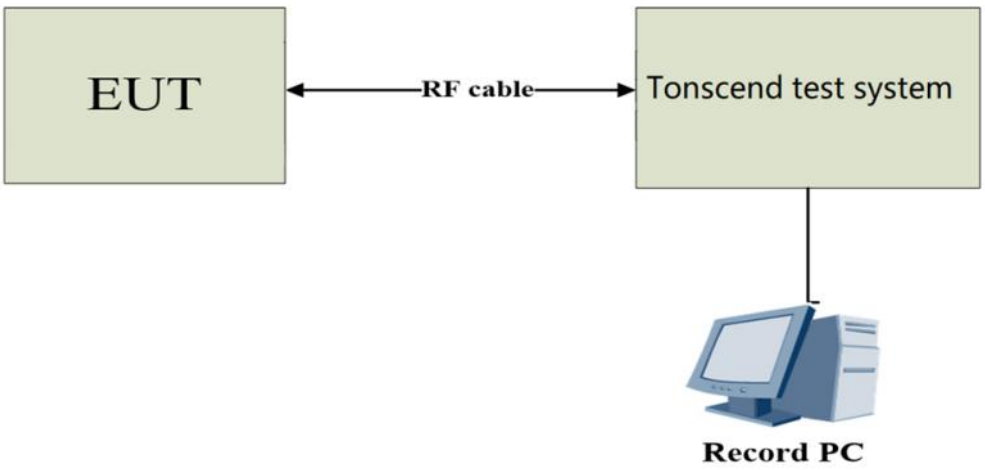
Test Method	
●Conducted Measurement	○Radiated Measurement
Test Channels	
●Lowest, Middle and Highest Channel	○ Lowest and Highest Channel
Environmental conditions	
●Normal	○Normal and Extreme
Note:●:Test ○:No Test	

a) The EUT was directly connected to the tonscend test system and antenna output port as show in the block diagram below.

b) Spectrum analyser settings as following:

Spectrum Parameters	Setting
Span Frequency	1.5 times the DTS bandwidth
RBW	3 kHz
VBW	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

3.6.3 Test Setup



3.6.4 The Result

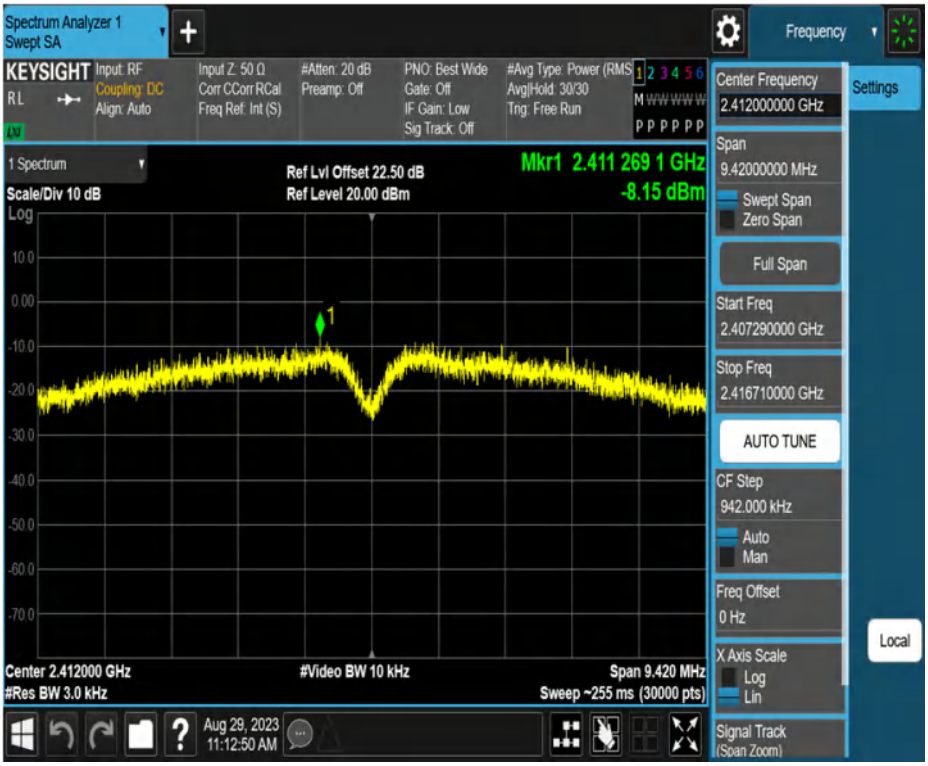
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B-CDD	Ant1	2412	-8.15	≤7.12	PASS
	Ant2	2412	-7.93	≤7.12	PASS
	total	2412	-5.03	≤7.12	PASS
	Ant1	2437	-6.07	≤7.12	PASS
	Ant2	2437	-6.46	≤7.12	PASS
	total	2437	-3.25	≤7.12	PASS
	Ant1	2462	-8.1	≤7.12	PASS
	Ant2	2462	-7.88	≤7.12	PASS
	total	2462	-4.98	≤7.12	PASS
11G-CDD	Ant1	2412	-15.44	≤7.12	PASS
	Ant2	2412	-15.89	≤7.12	PASS
	total	2412	-12.65	≤7.12	PASS
	Ant1	2437	-15.98	≤7.12	PASS
	Ant2	2437	-15.37	≤7.12	PASS
	total	2437	-12.65	≤7.12	PASS
	Ant1	2462	-15.39	≤7.12	PASS
	Ant2	2462	-15.95	≤7.12	PASS
	total	2462	-12.65	≤7.12	PASS
11N20MIMO	Ant1	2412	-15.73	≤7.12	PASS
	Ant2	2412	-15.7	≤7.12	PASS
	total	2412	-12.70	≤7.12	PASS
	Ant1	2437	-16.27	≤7.12	PASS
	Ant2	2437	-15.19	≤7.12	PASS
	total	2437	-12.69	≤7.12	PASS
	Ant1	2462	-15.71	≤7.12	PASS
	Ant2	2462	-15.29	≤7.12	PASS
	total	2462	-12.48	≤7.12	PASS
11N40MIMO	Ant1	2422	-18.66	≤7.12	PASS
	Ant2	2422	-18.42	≤7.12	PASS
	total	2422	-15.53	≤7.12	PASS
	Ant1	2437	-19.06	≤7.12	PASS
	Ant2	2437	-18.87	≤7.12	PASS
	total	2437	-15.95	≤7.12	PASS
	Ant1	2452	-18.39	≤7.12	PASS
	Ant2	2452	-18.92	≤7.12	PASS
	total	2452	-15.64	≤7.12	PASS
11AX20MIMO	Ant1	2412	-15.86	≤7.12	PASS
	Ant2	2412	-15.47	≤7.12	PASS
	total	2412	-12.65	≤7.12	PASS

	Ant1	2437	-15.83	≤7.12	PASS
	Ant2	2437	-15.41	≤7.12	PASS
	total	2437	-12.60	≤7.12	PASS
	Ant1	2462	-16.2	≤7.12	PASS
	Ant2	2462	-15.4	≤7.12	PASS
	total	2462	-12.77	≤7.12	PASS
11AX40MIMO	Ant1	2422	-18.64	≤7.12	PASS
	Ant2	2422	-17.83	≤7.12	PASS
	total	2422	-15.21	≤7.12	PASS
	Ant1	2437	-19.11	≤7.12	PASS
	Ant2	2437	-18.16	≤7.12	PASS
	total	2437	-15.60	≤7.12	PASS
	Ant1	2452	-18.35	≤7.12	PASS
	Ant2	2452	-17.83	≤7.12	PASS
	total	2452	-15.07	≤7.12	PASS

For MIMO mode

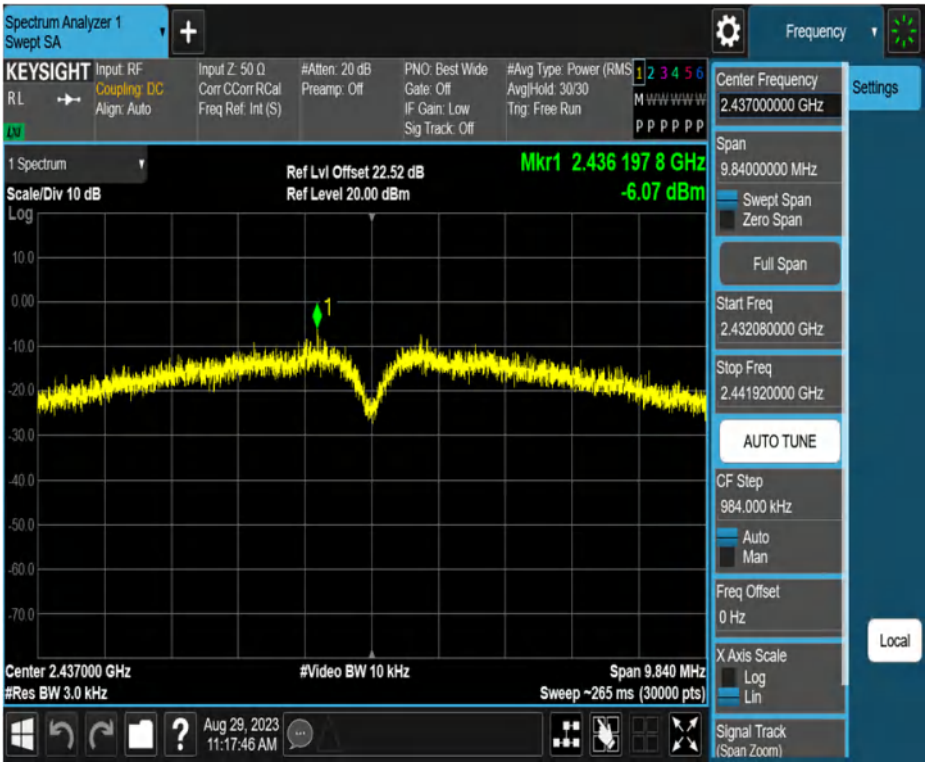
Frequency[MHz]	ANT 1 Antenna Gain (dBi)	ANT 2 Antenna Gain (dBi)	Correlated chains directional gain (dBi)	PSD Limit (dBm)
2412-2462	3.76	3.98	6.88	7.12
Unequal antenna gains, with equal transmit powers. For antenna gains given by G_1, G_2, …, G_N dBi If transmit signals are correlated, then Directional 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.]				
Directional gain = 10log[$(10^{3.76/20} + 10^{3.98/20})^2/N_{ANT}$] dBi=6.88				

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

11B-CDD_Ant1_2412


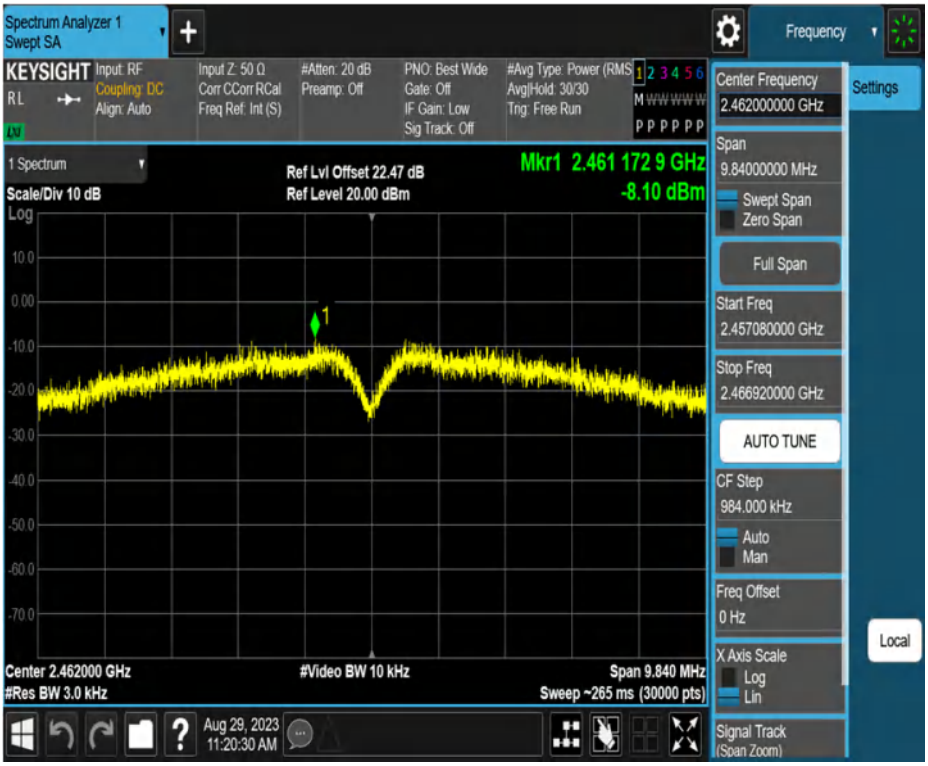
11B-CDD_Ant2_2412

11B-CDD_Ant1_2437

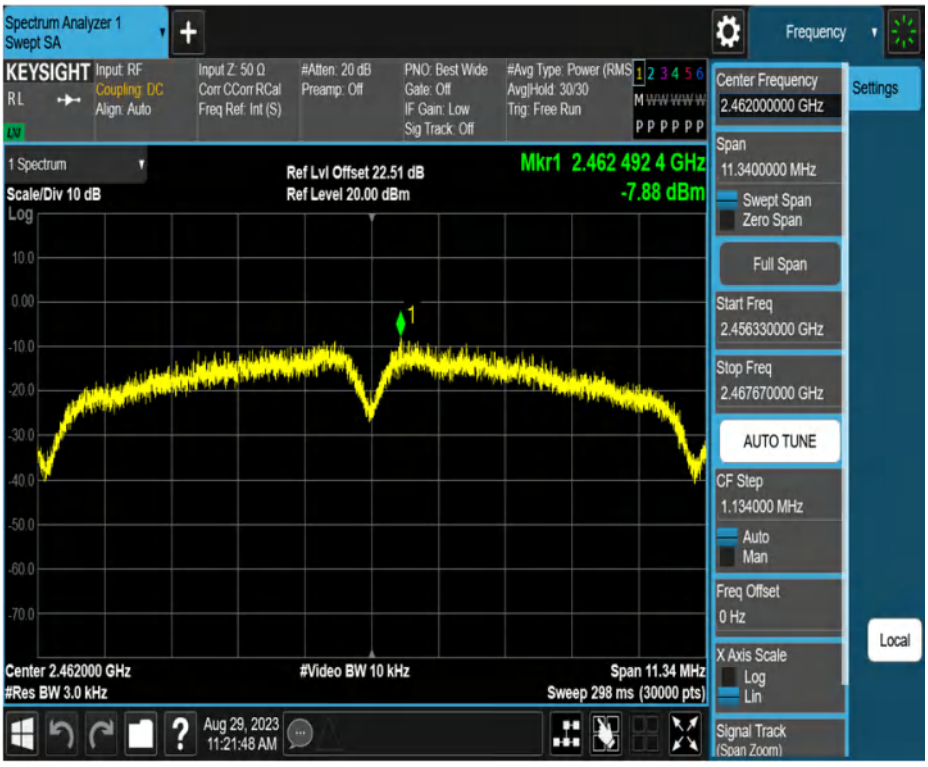


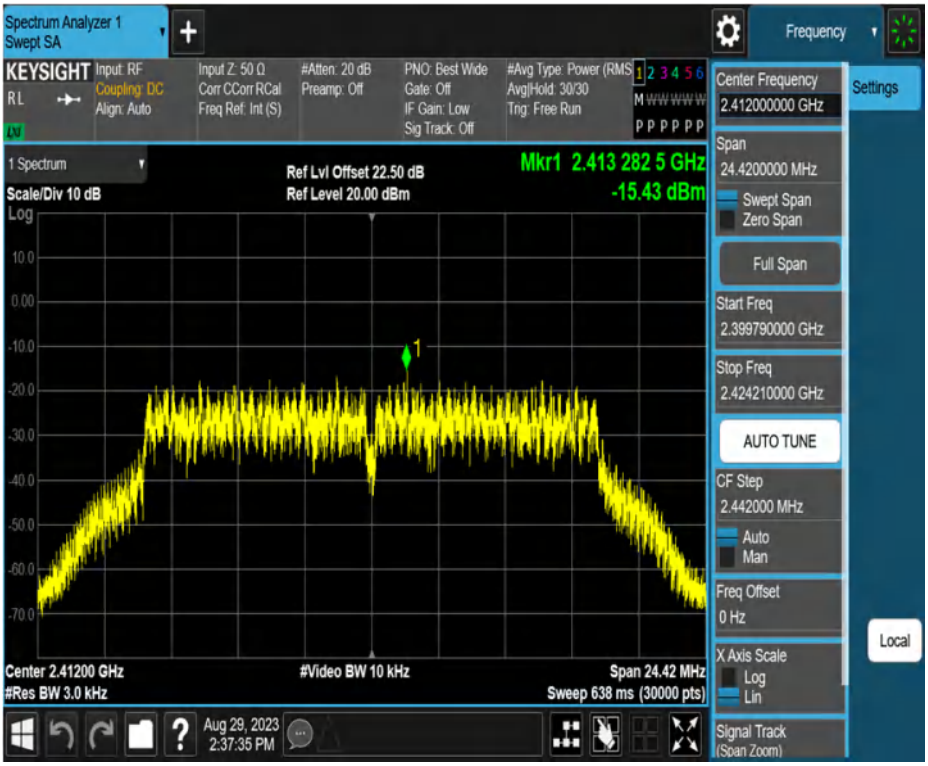
11B-CDD_Ant2_2437

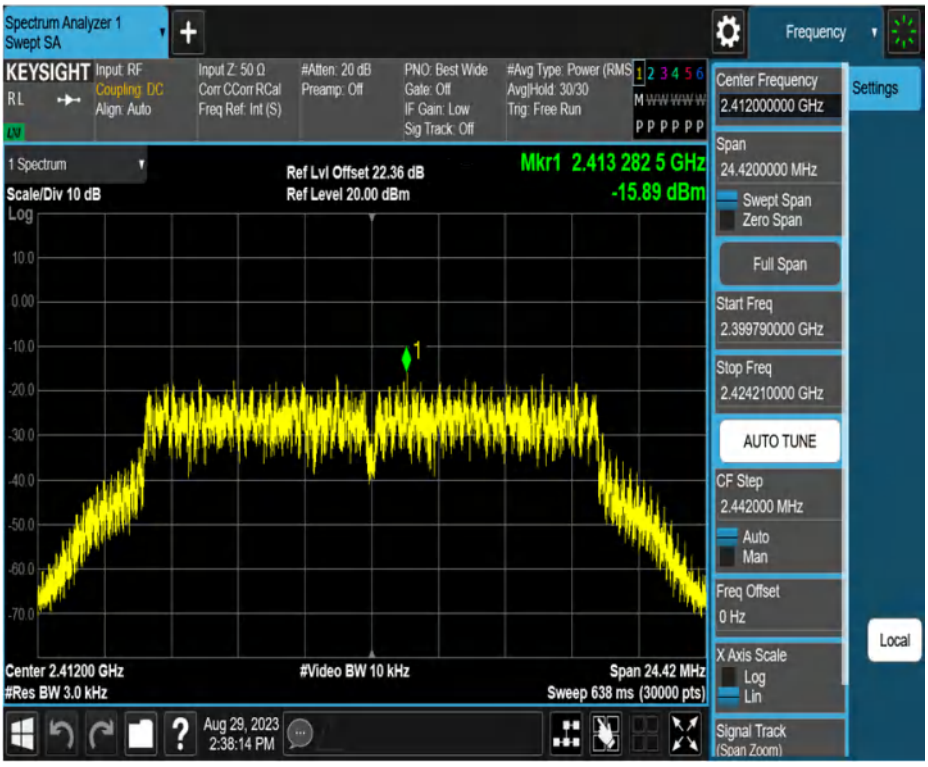
11B-CDD_Ant1_2462



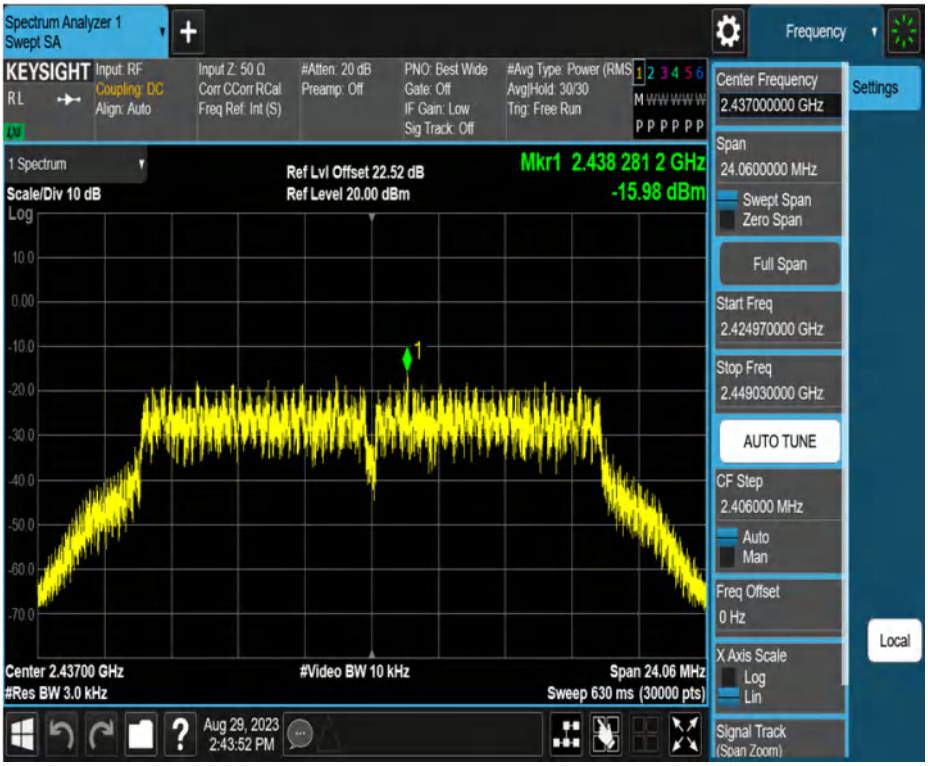
11B-CDD_Ant2_2462



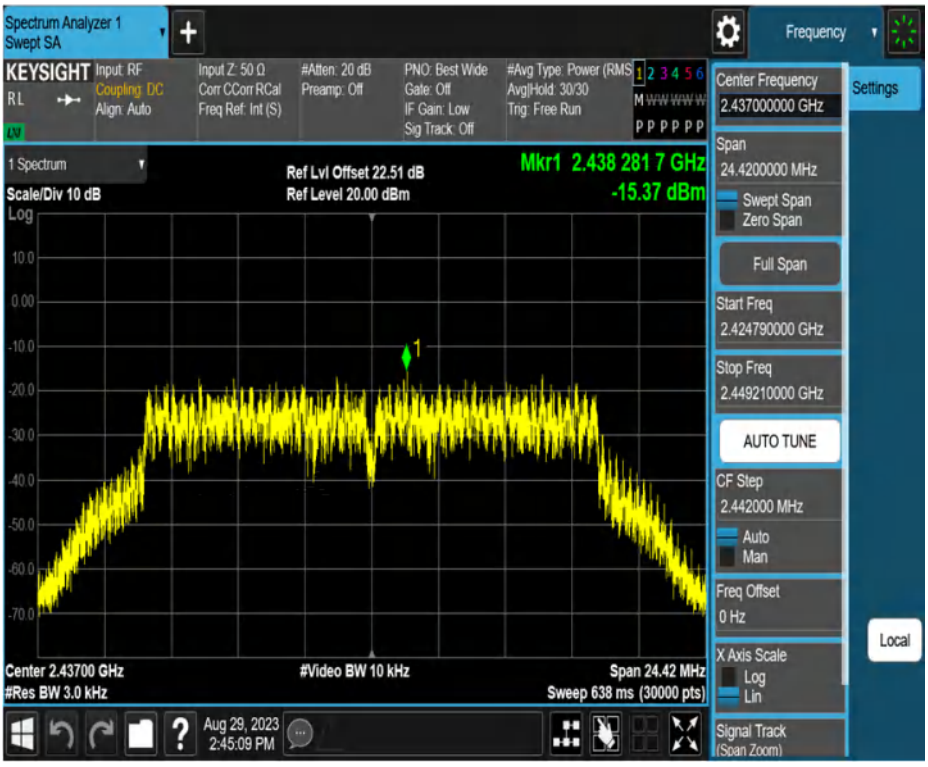
11G-CDD_Ant1_2412


11G-CDD_Ant2_2412


11G-CDD_Ant1_2437



11G-CDD_Ant2_2437



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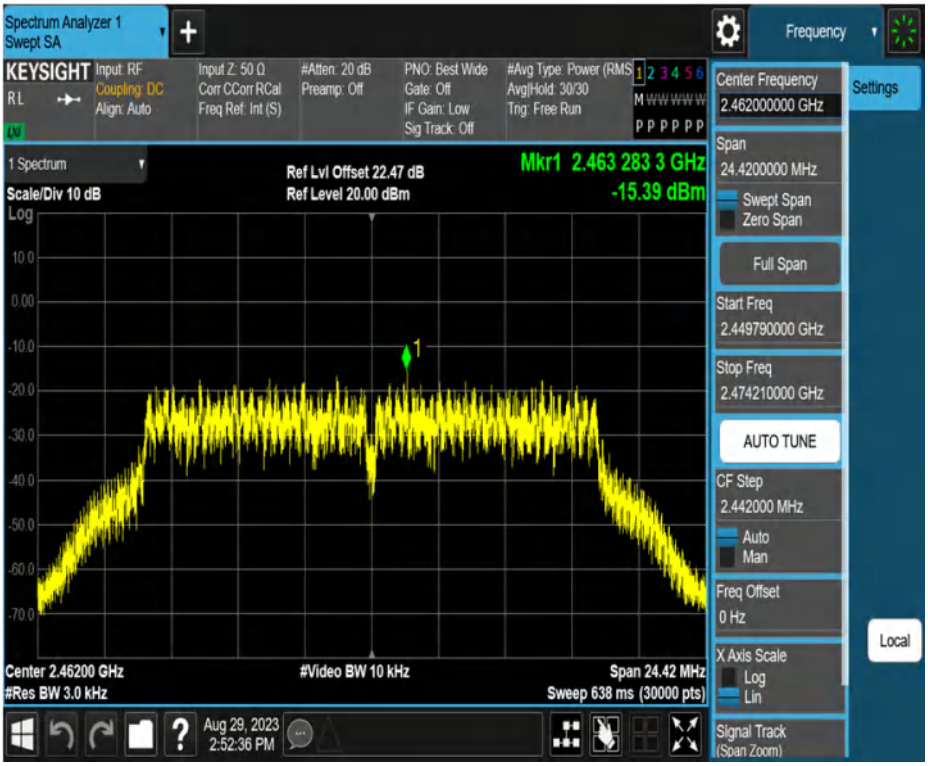
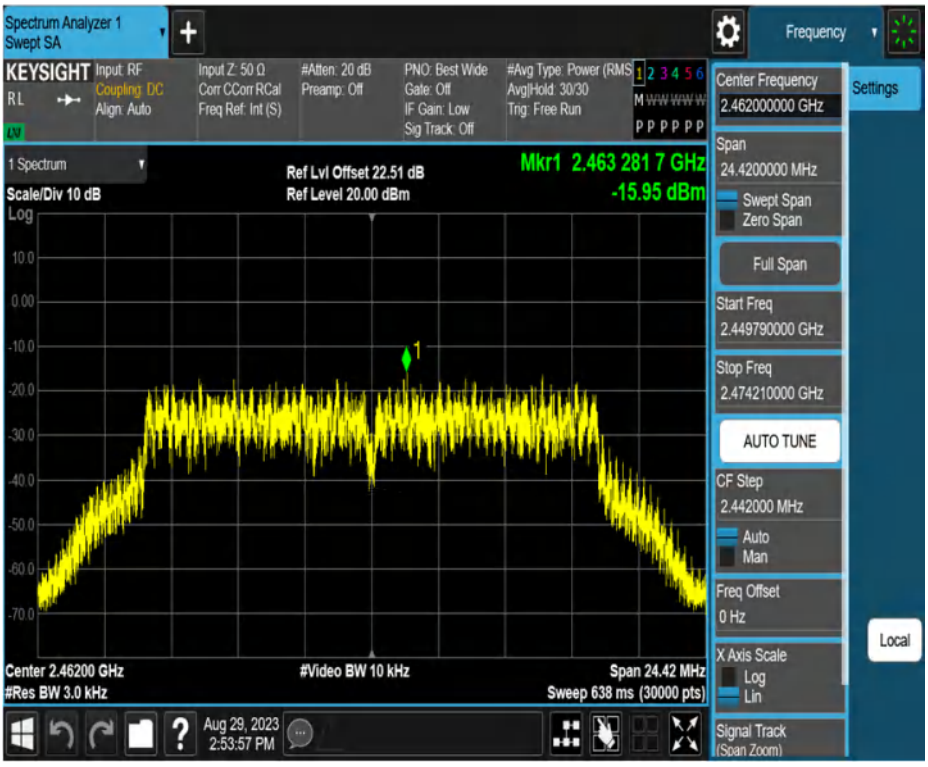
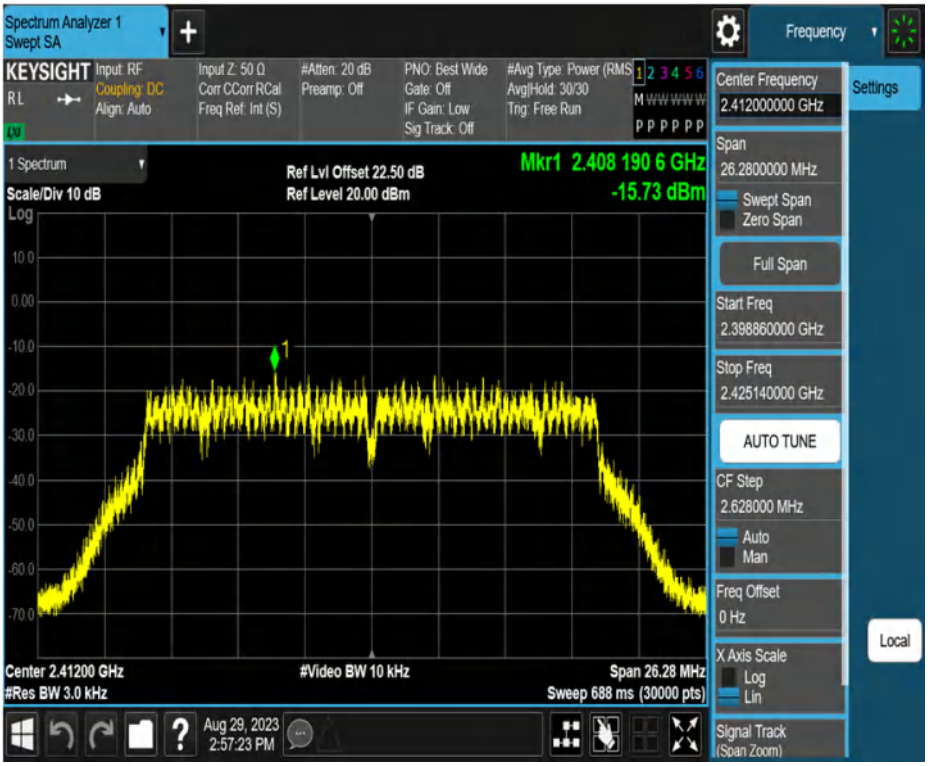
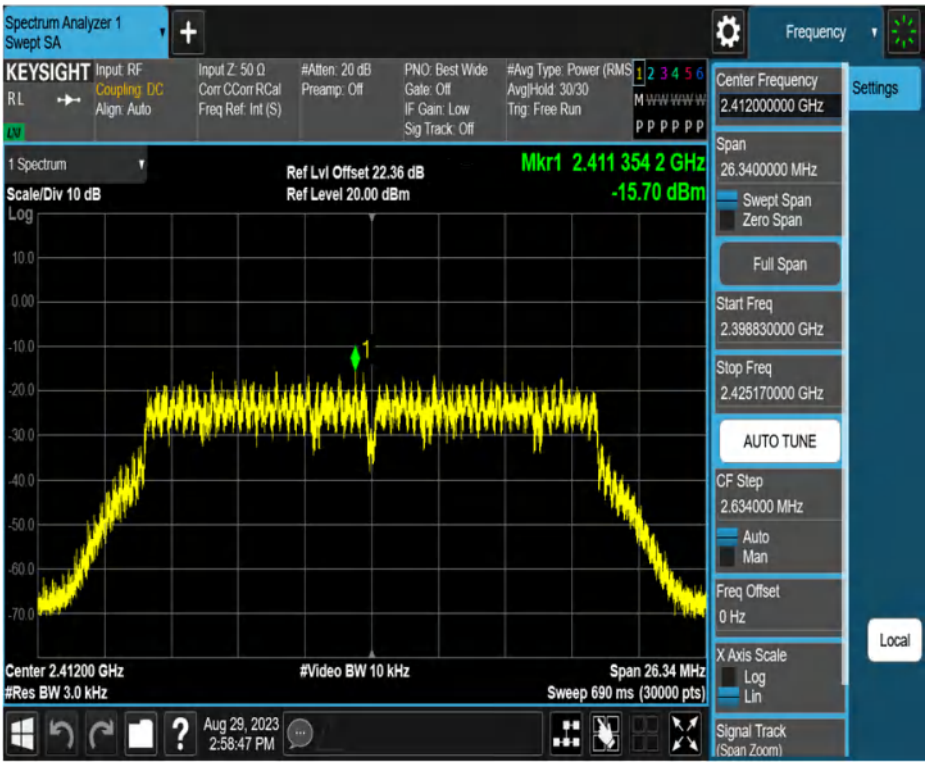
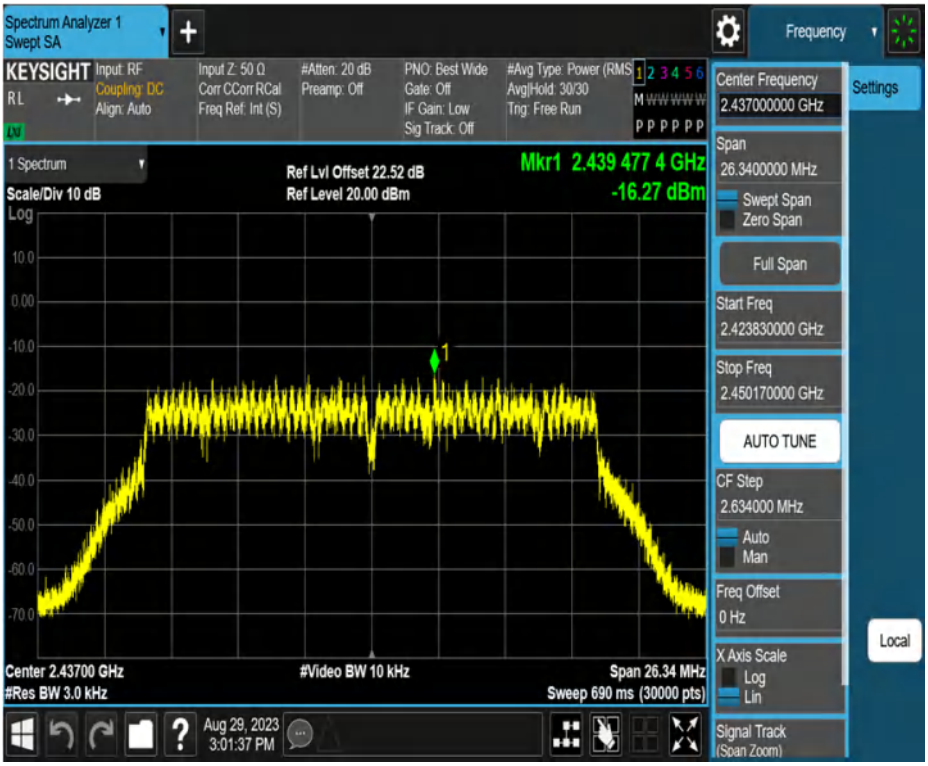


11G-CDD_Ant2_2462


11N20MIMO_Ant1_2412


11N20MIMO_Ant2_2412


11N20MIMO_Ant1_2437


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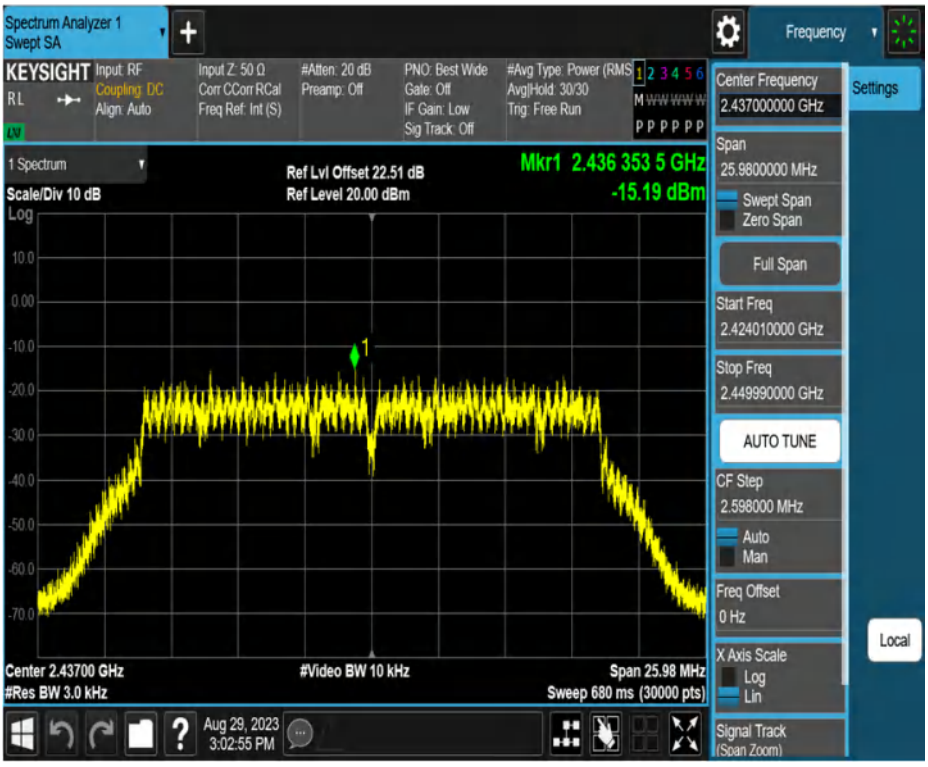

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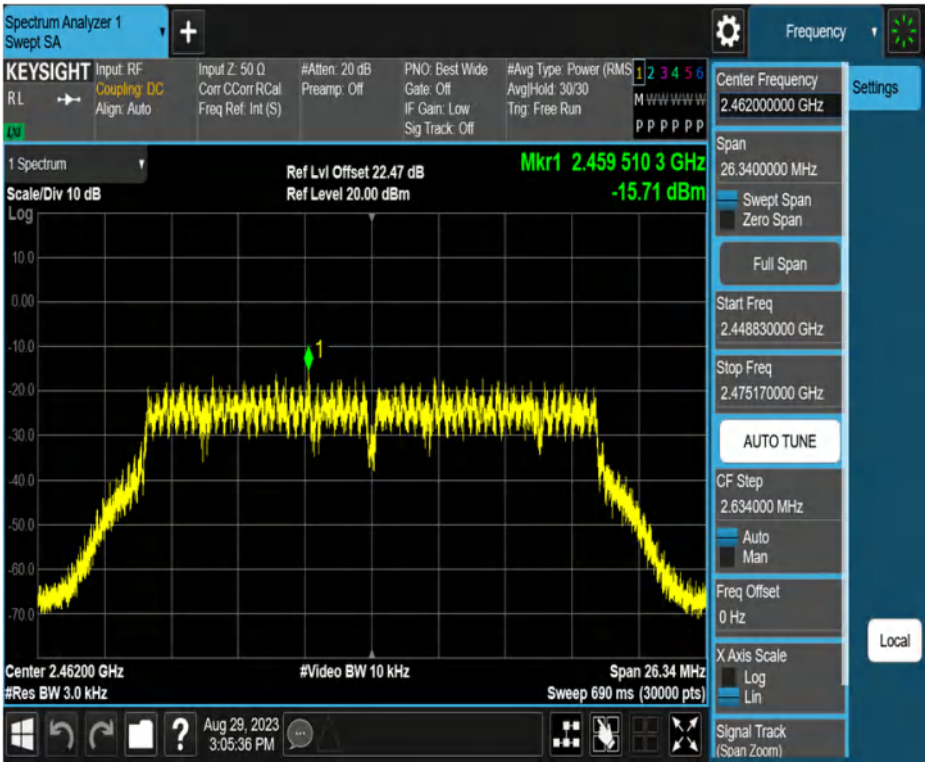
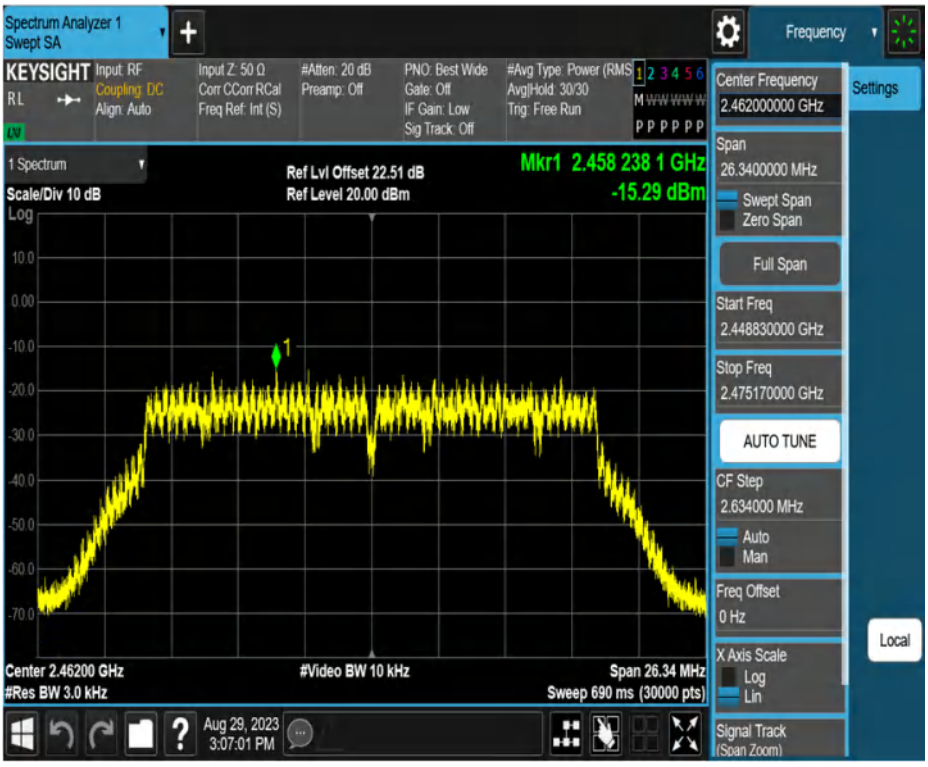
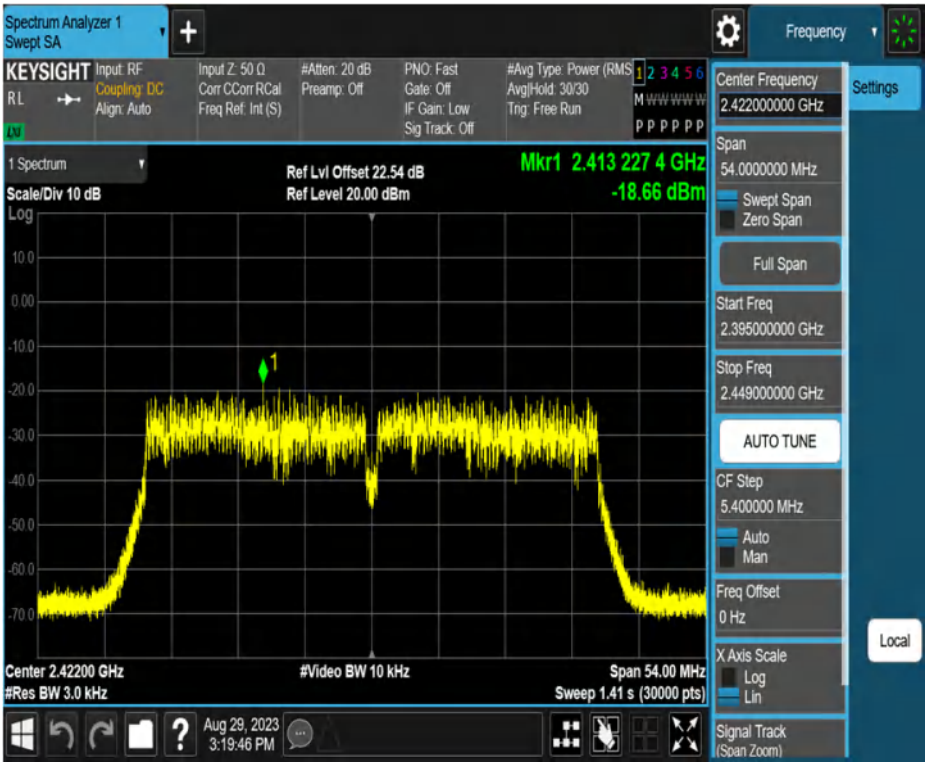


11N20MIMO_Ant2_2462


11N40MIMO_Ant1_2422


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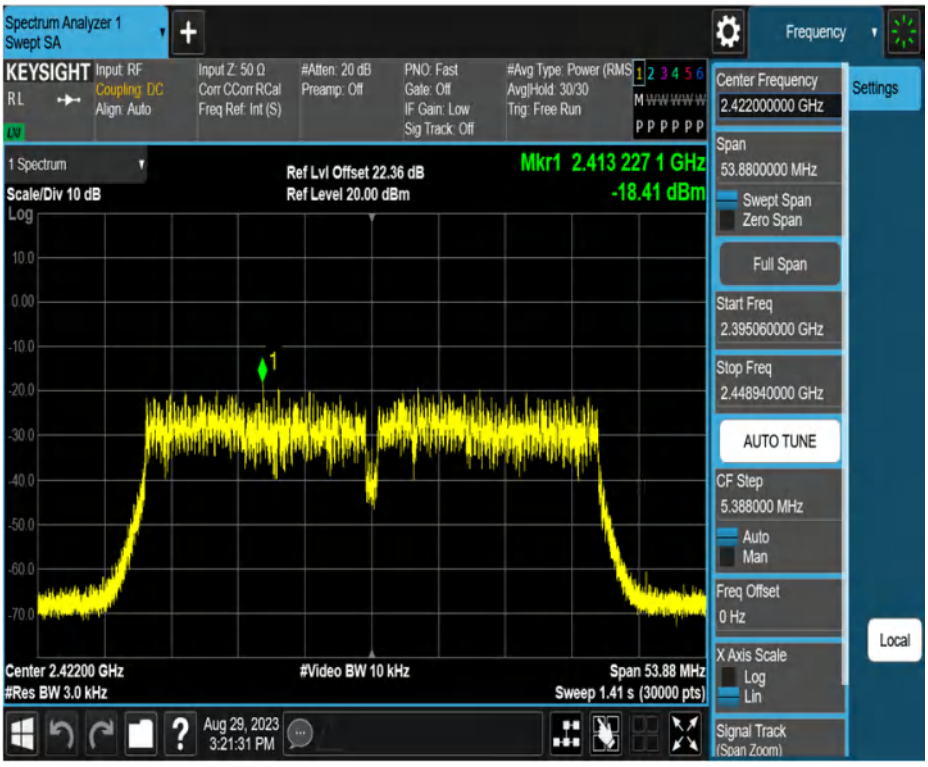

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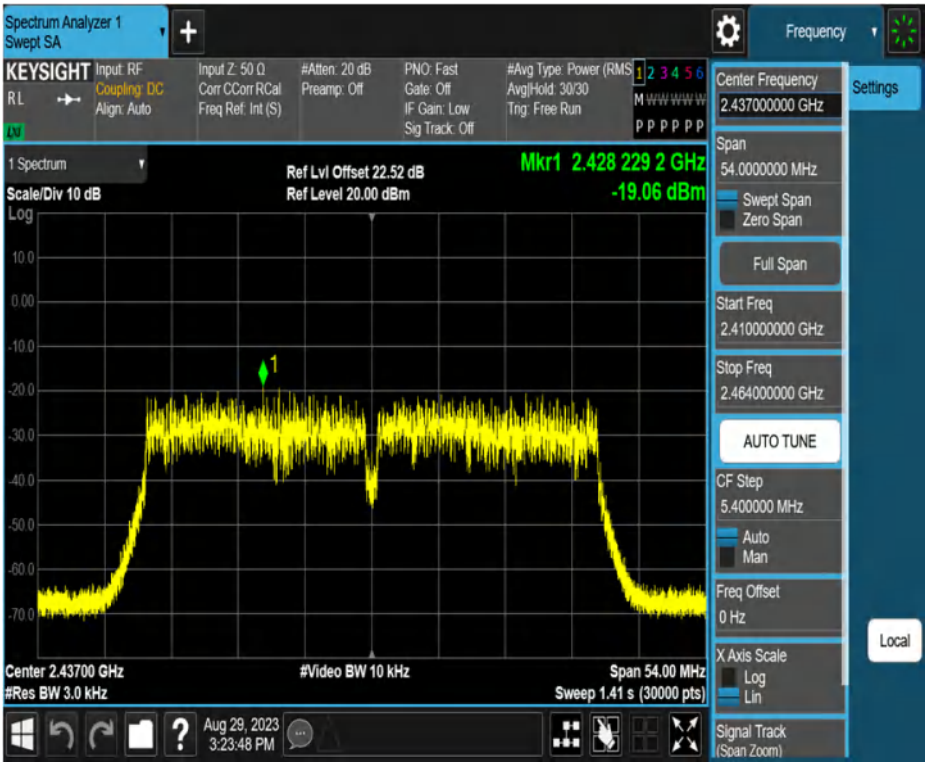

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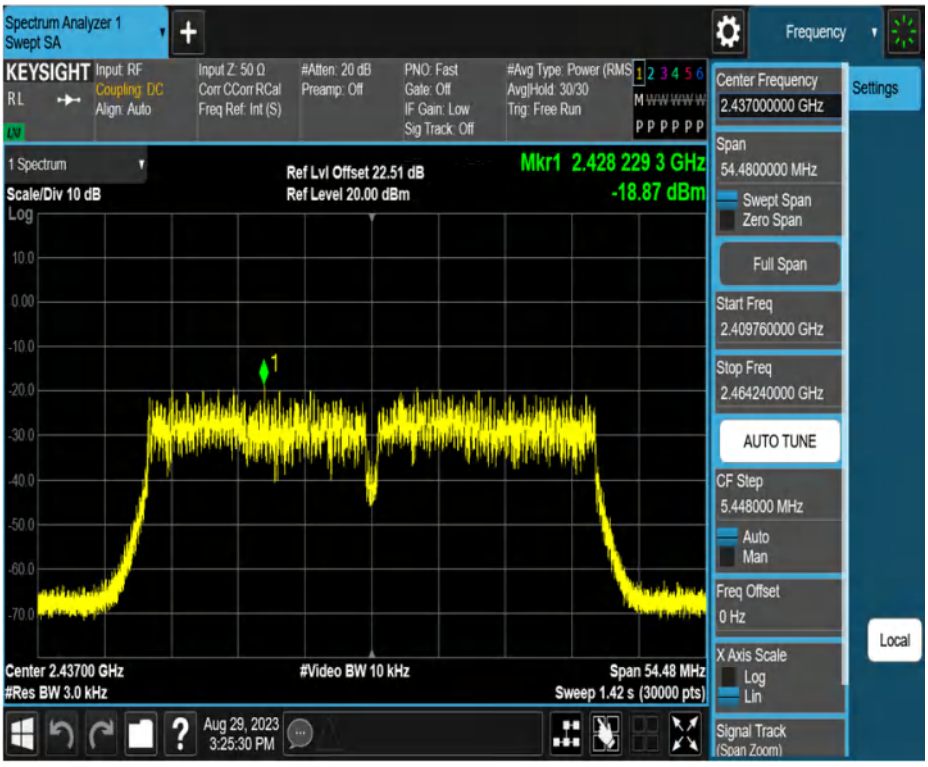

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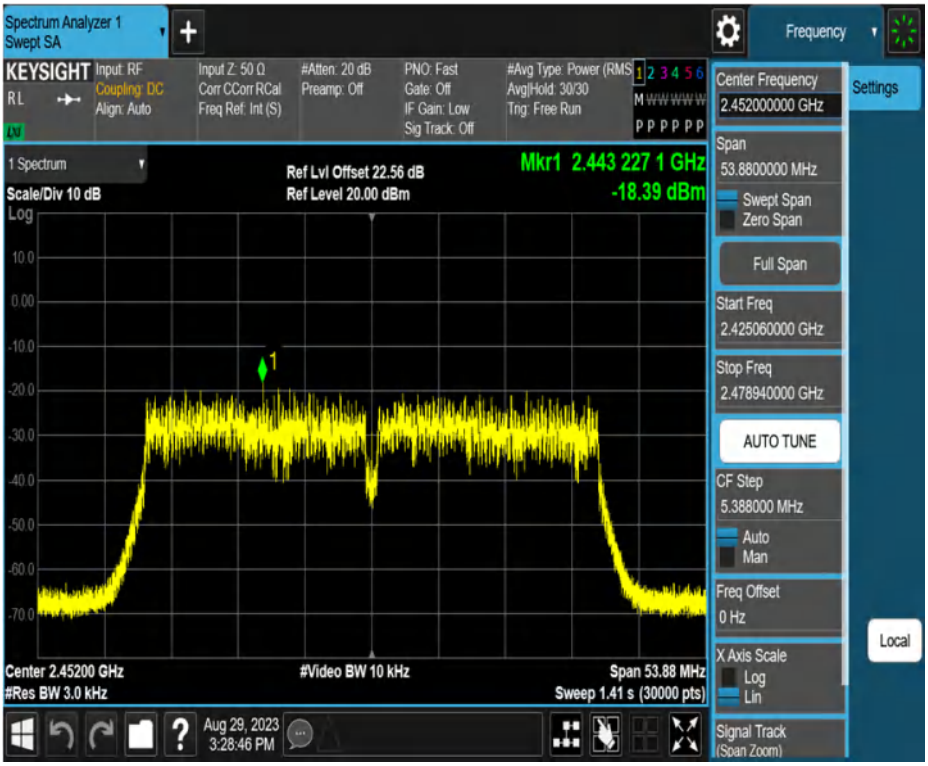

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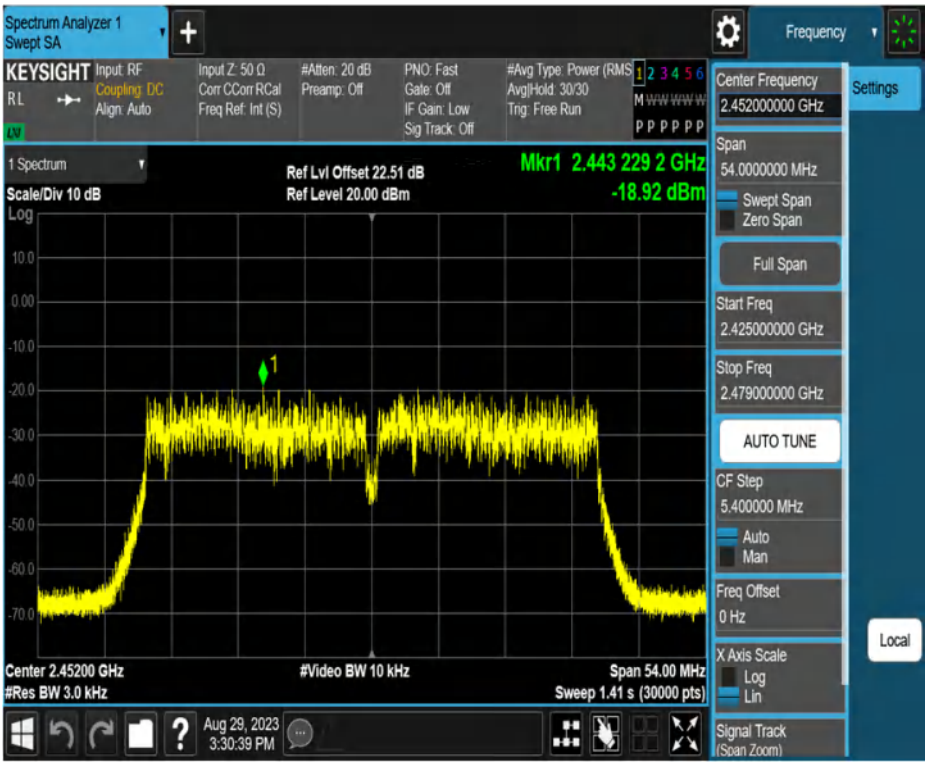

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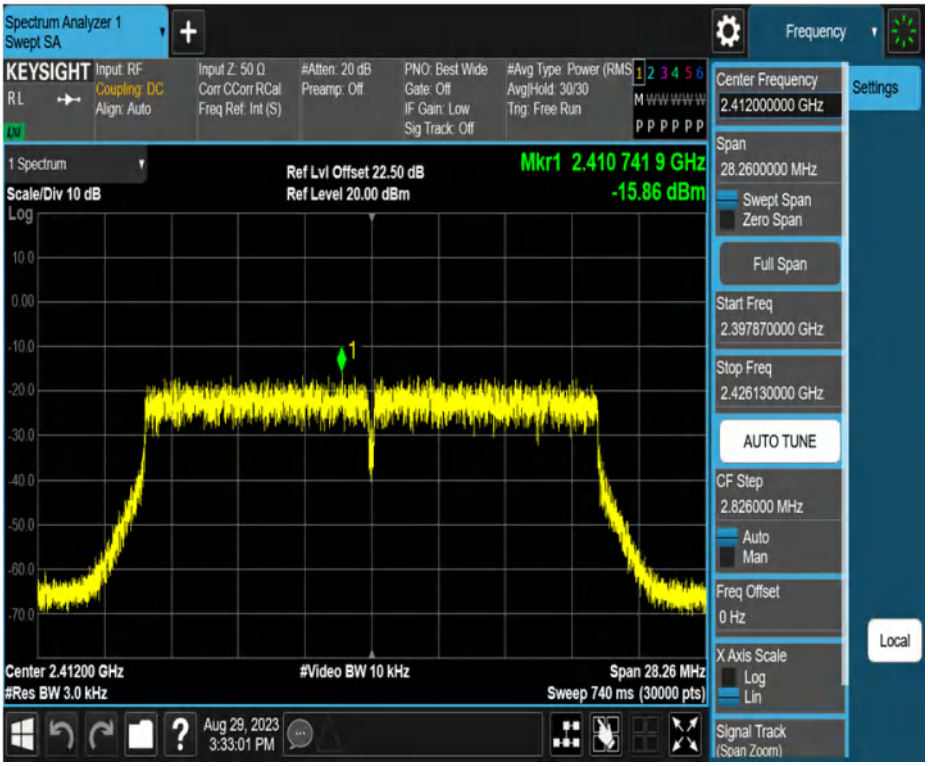

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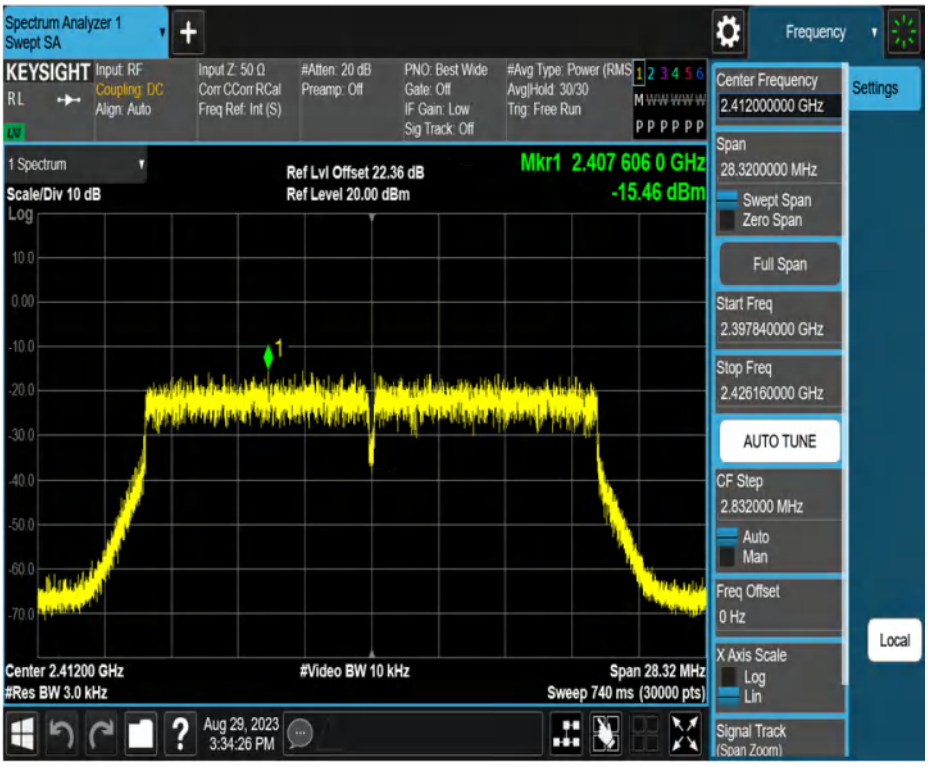

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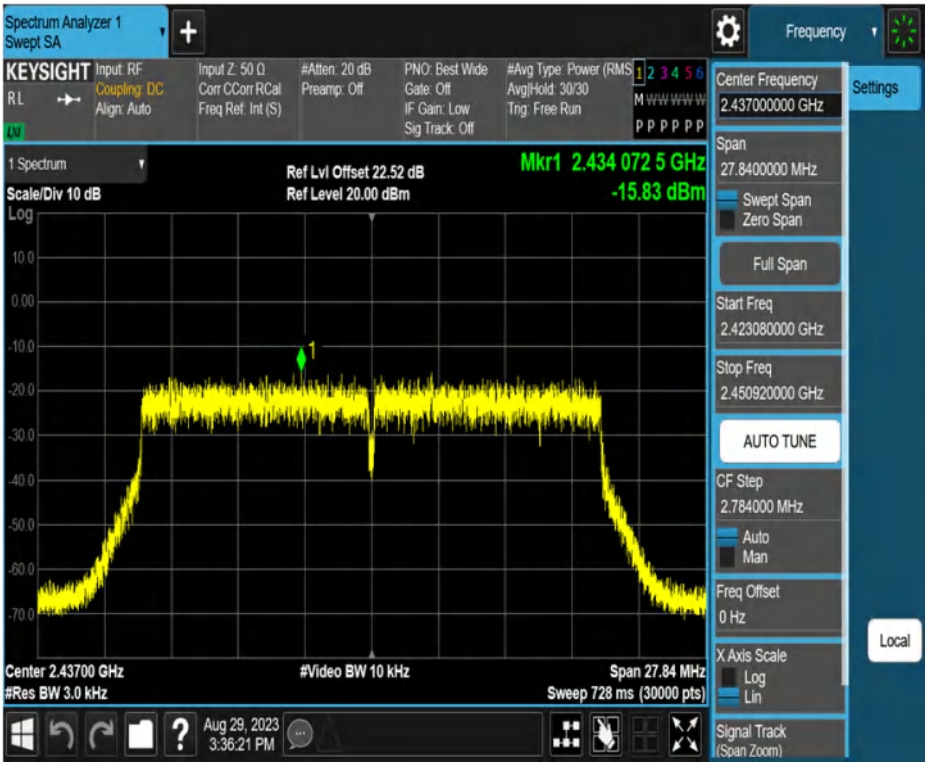

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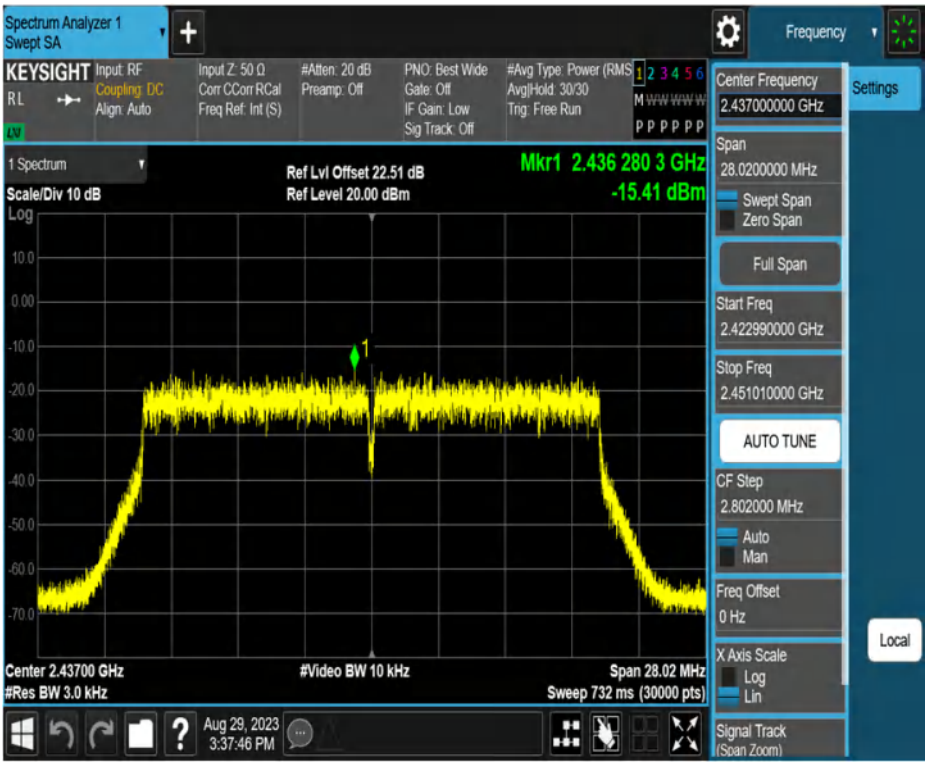

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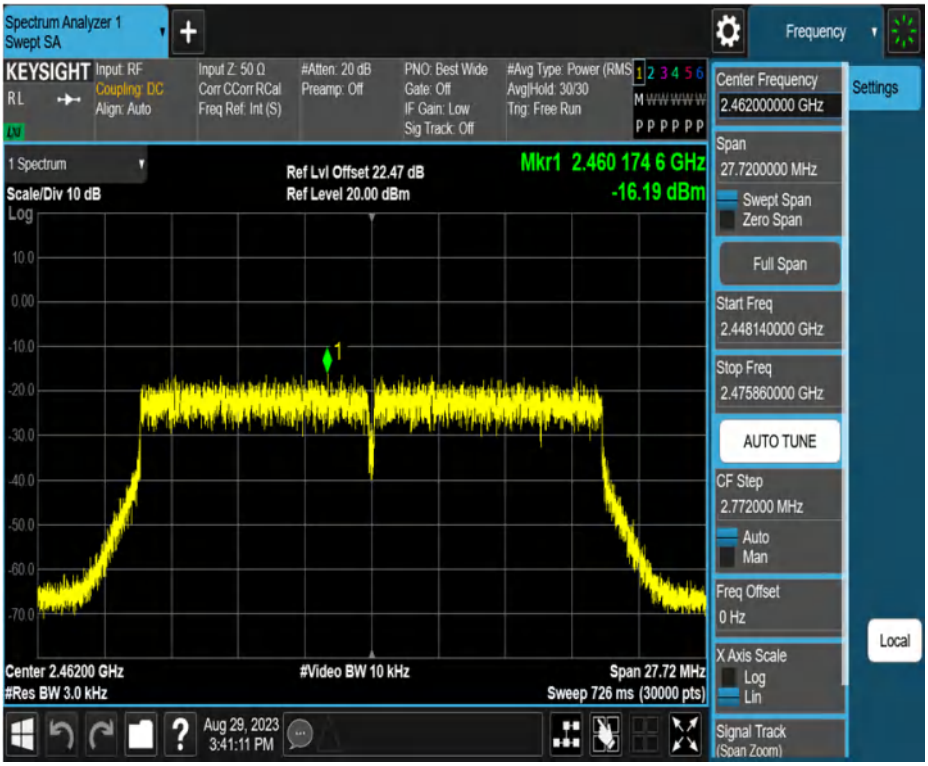

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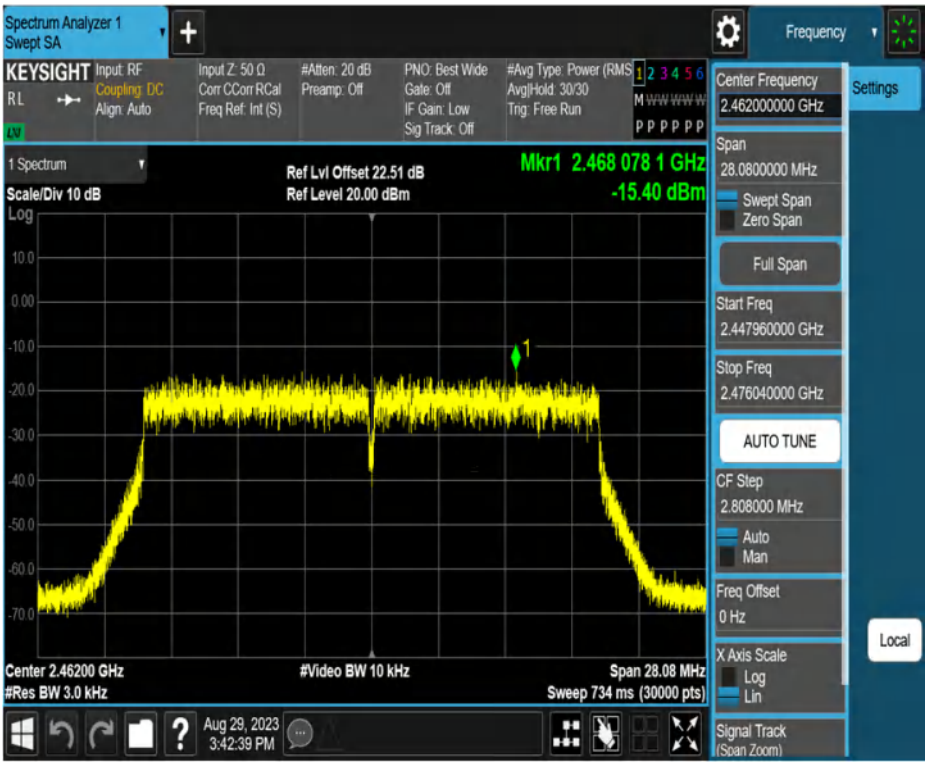

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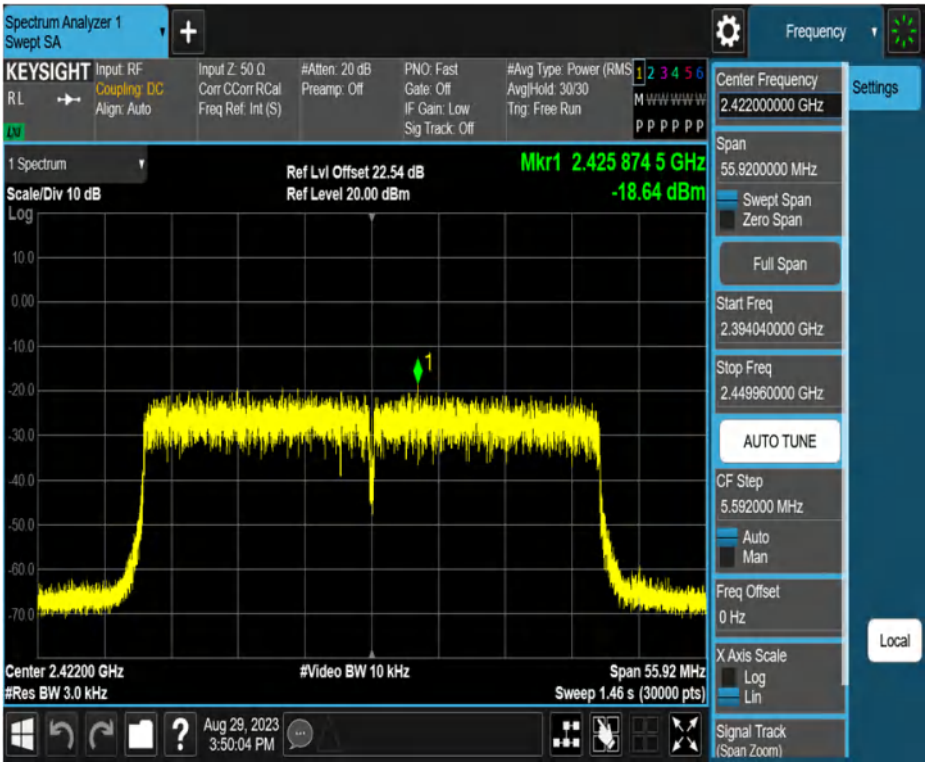

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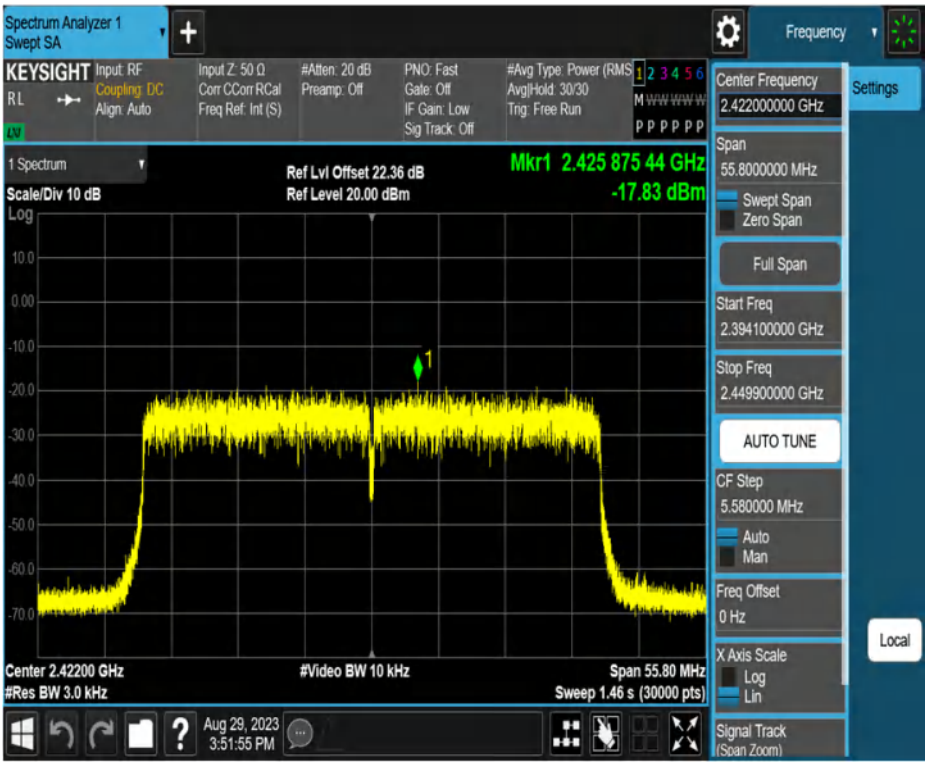

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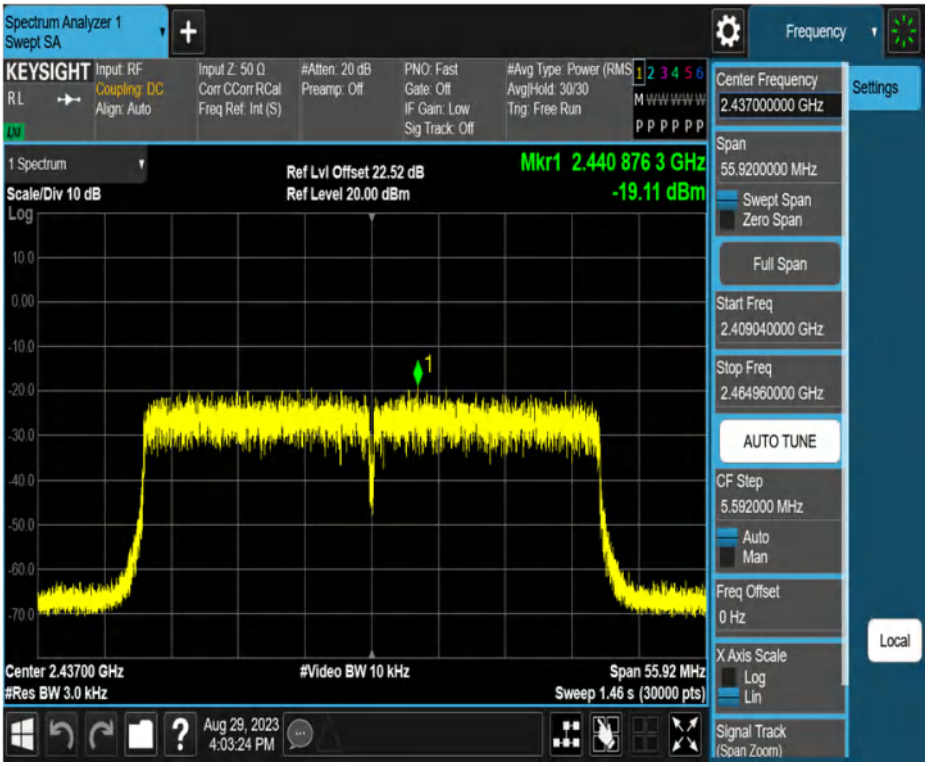

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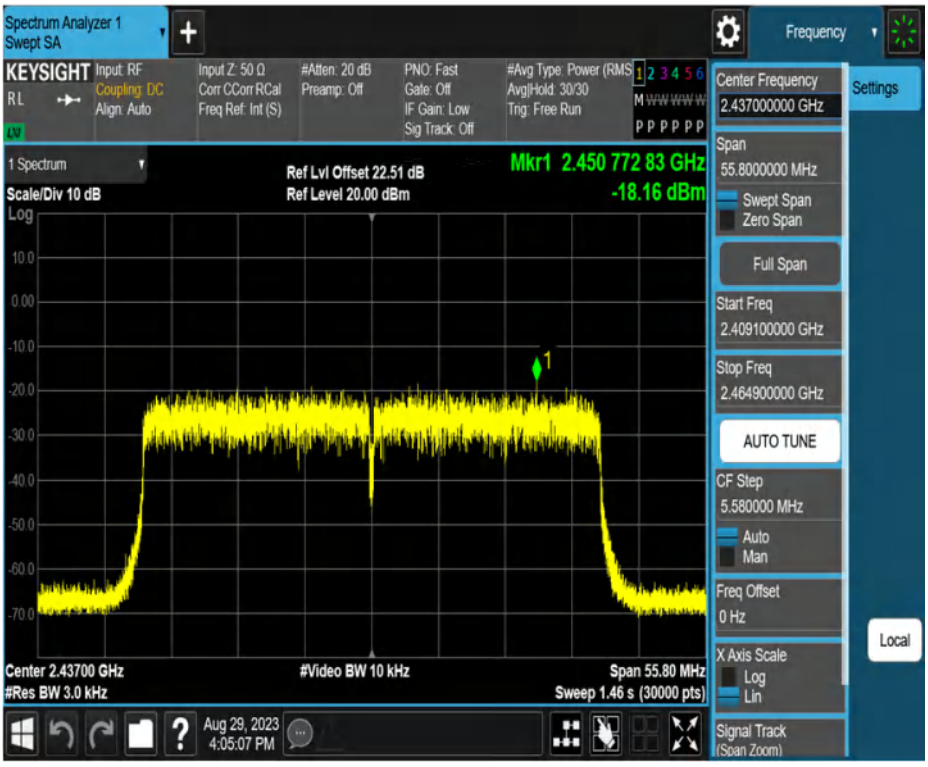

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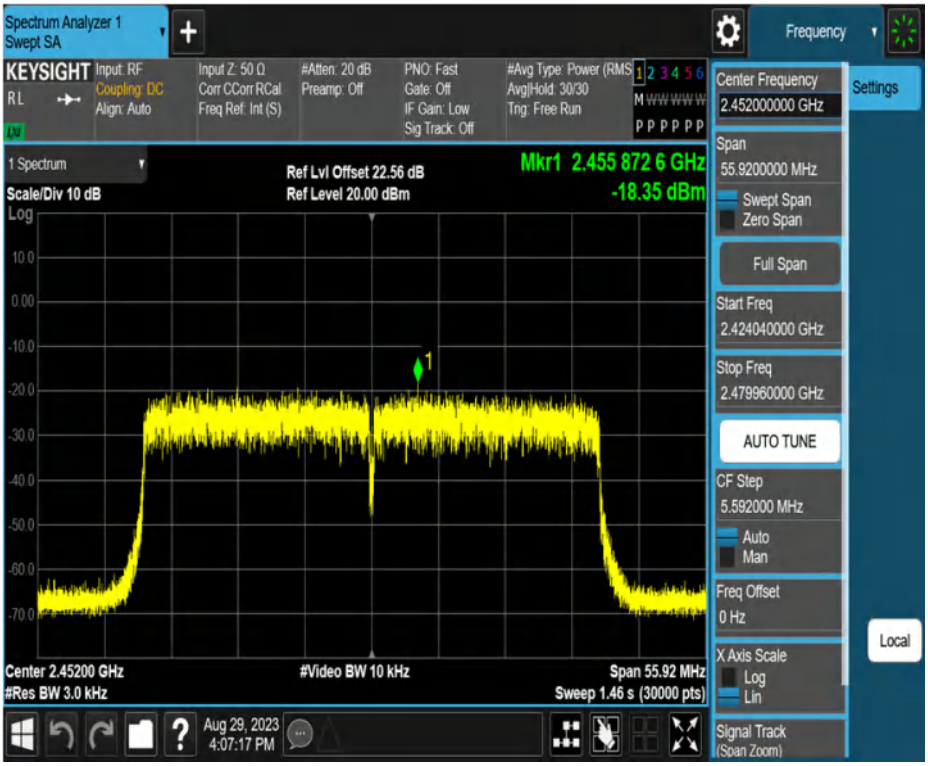

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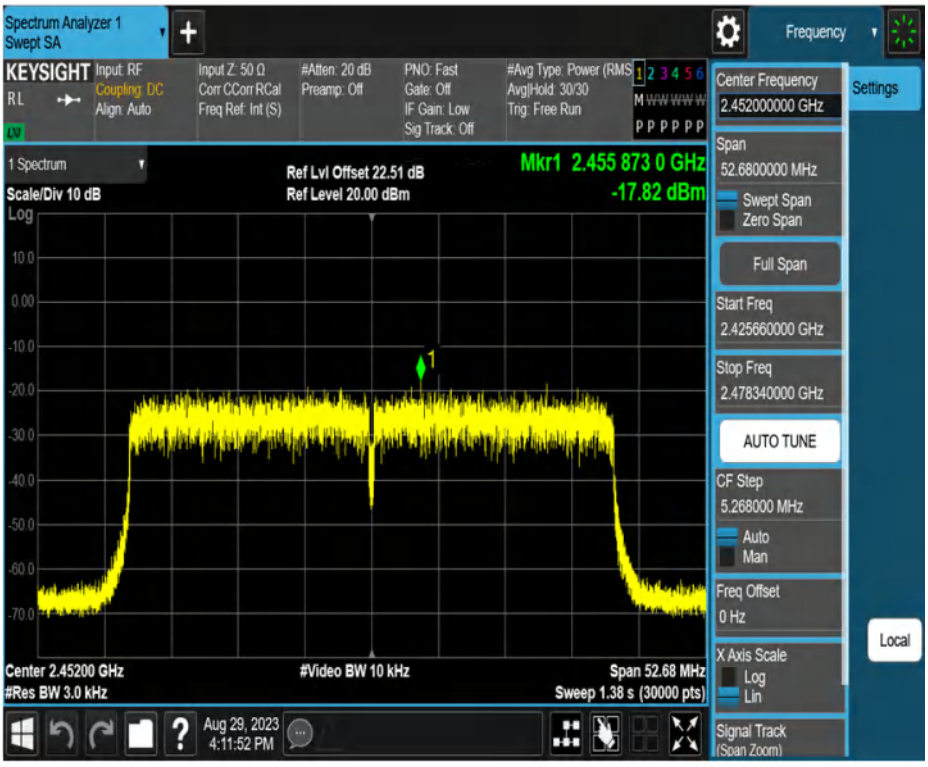

End of Test Report