

11G-CDD_Ant1_Low_2412



11G-CDD_Ant2_Low_2412



11G-CDD_Ant1_High_2462



11G-CDD_Ant2_High_2462



11N20MIMO_Ant1_Low_2412



11N20MIMO_Ant2_Low_2412



11N20MIMO_Ant1_High_2462



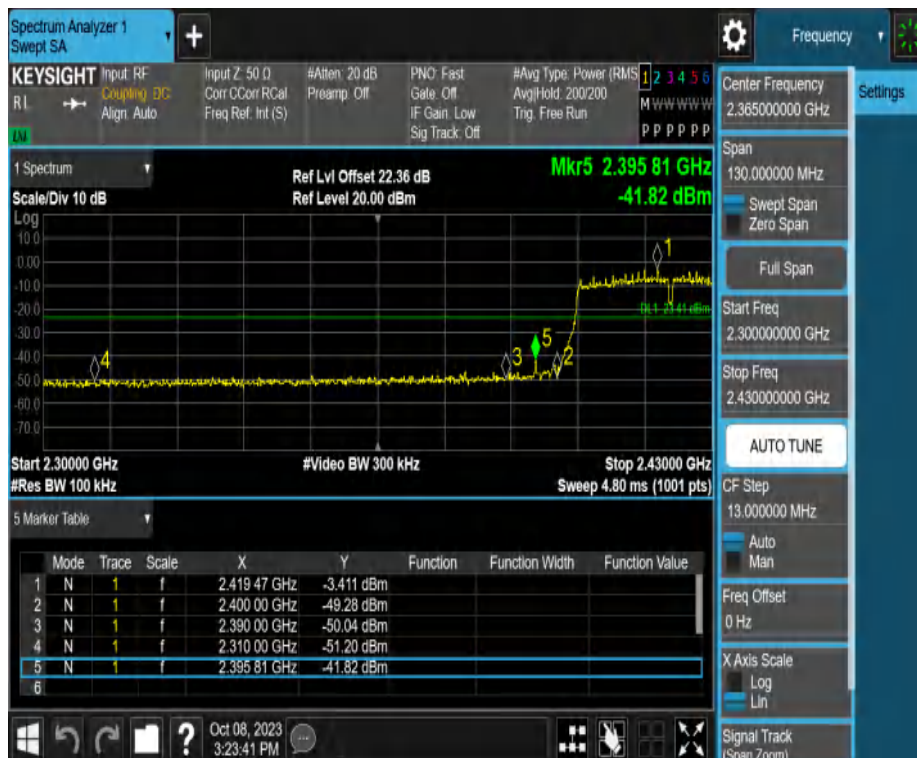
11N20MIMO_Ant2_High_2462



11N40MIMO_Ant1_Low_2422



11N40MIMO_Ant2_Low_2422



11N40MIMO_Ant1_High_2452



11N40MIMO_Ant2_High_2452



11AX20MIMO_Ant1_Low_2412



11AX20MIMO_Ant2_Low_2412



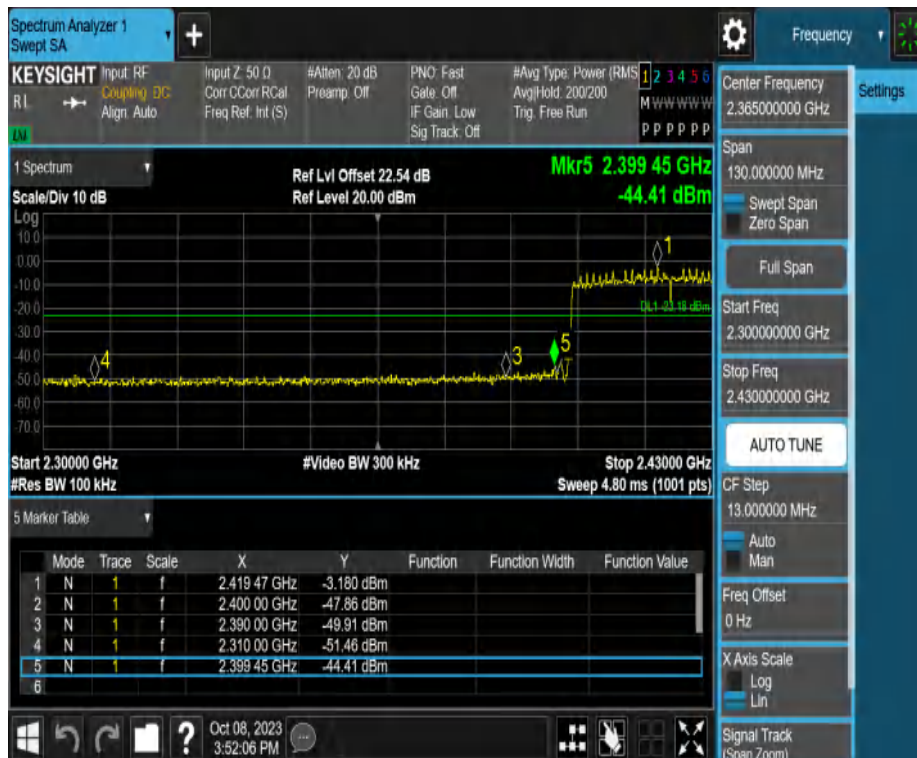
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11AX20MIMO_Ant2_High_2462



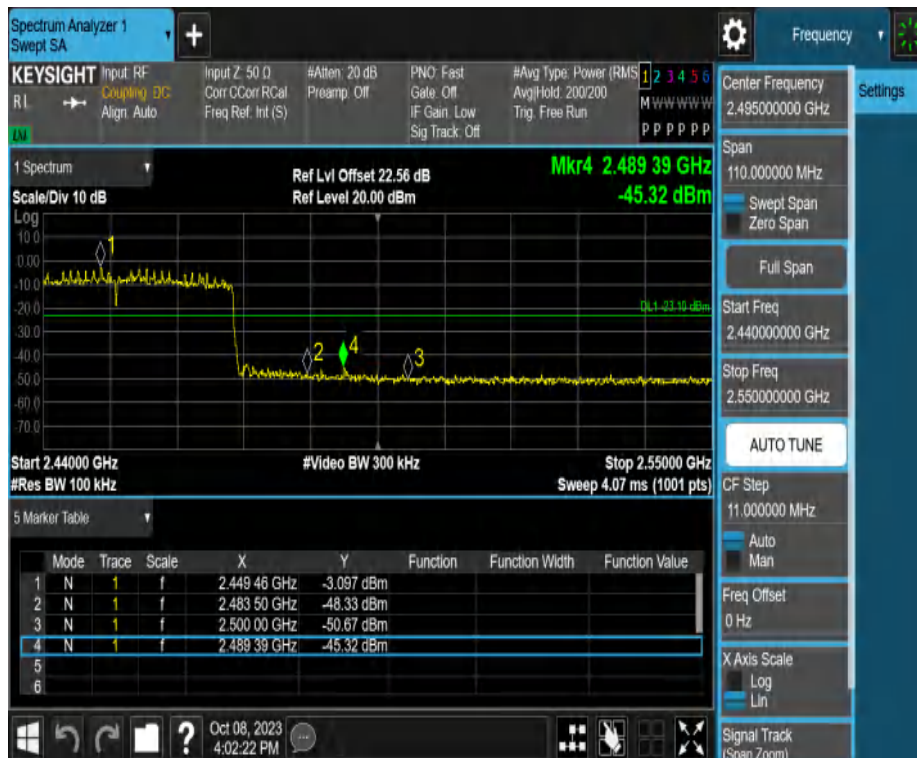
11AX40MIMO_Ant1_Low_2422



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 tonscond test system, and the spectrum analyser is set as follow:

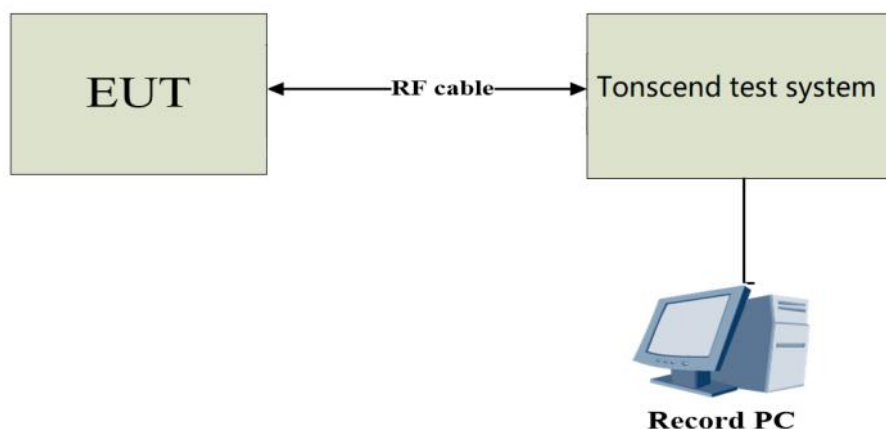
Centre Frequency	The centre frequency of the channel under test
RBW	100kHz
VBW	300kHz
Frequency span	2x Nominal Channel Bandwidth
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Time	Auto Couple

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	7.560	2407.960	2415.520	0.5	PASS
	Ant2	2412	7.560	2407.960	2415.520	0.5	PASS
	Ant1	2437	7.520	2433.000	2440.520	0.5	PASS
	Ant2	2437	7.560	2433.440	2441.000	0.5	PASS
	Ant1	2462	8.560	2457.960	2466.520	0.5	PASS
	Ant2	2462	7.560	2458.440	2466.000	0.5	PASS
11G-CDD	Ant1	2412	15.280	2404.480	2419.760	0.5	PASS
	Ant2	2412	16.320	2403.840	2420.160	0.5	PASS
	Ant1	2437	15.000	2429.480	2444.480	0.5	PASS
	Ant2	2437	16.280	2428.840	2445.120	0.5	PASS
	Ant1	2462	16.320	2453.840	2470.160	0.5	PASS
	Ant2	2462	15.680	2453.840	2469.520	0.5	PASS
11N20MIMO	Ant1	2412	16.920	2403.840	2420.760	0.5	PASS
	Ant2	2412	17.600	2403.200	2420.800	0.5	PASS
	Ant1	2437	15.880	2428.880	2444.760	0.5	PASS
	Ant2	2437	16.880	2428.840	2445.720	0.5	PASS
	Ant1	2462	16.240	2453.880	2470.120	0.5	PASS
	Ant2	2462	16.920	2453.840	2470.760	0.5	PASS
11N40MIMO	Ant1	2422	35.040	2404.480	2439.520	0.5	PASS
	Ant2	2422	35.040	2404.480	2439.520	0.5	PASS
	Ant1	2437	33.760	2420.760	2454.520	0.5	PASS
	Ant2	2437	32.560	2421.960	2454.520	0.5	PASS
	Ant1	2452	35.120	2434.480	2469.600	0.5	PASS
	Ant2	2452	35.040	2434.480	2469.520	0.5	PASS
11AX20MIMO	Ant1	2412	16.600	2404.440	2421.040	0.5	PASS
	Ant2	2412	17.840	2402.960	2420.800	0.5	PASS
	Ant1	2437	16.800	2428.720	2445.520	0.5	PASS
	Ant2	2437	16.800	2429.240	2446.040	0.5	PASS
	Ant1	2462	16.000	2453.760	2469.760	0.5	PASS
	Ant2	2462	18.440	2452.600	2471.040	0.5	PASS
11AX40MIMO	Ant1	2422	35.040	2404.480	2439.520	0.5	PASS
	Ant2	2422	36.480	2404.320	2440.800	0.5	PASS
	Ant1	2437	36.320	2418.200	2454.520	0.5	PASS
	Ant2	2437	36.320	2419.480	2455.800	0.5	PASS
	Ant1	2452	36.320	2433.280	2469.600	0.5	PASS
	Ant2	2452	32.640	2435.680	2468.320	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



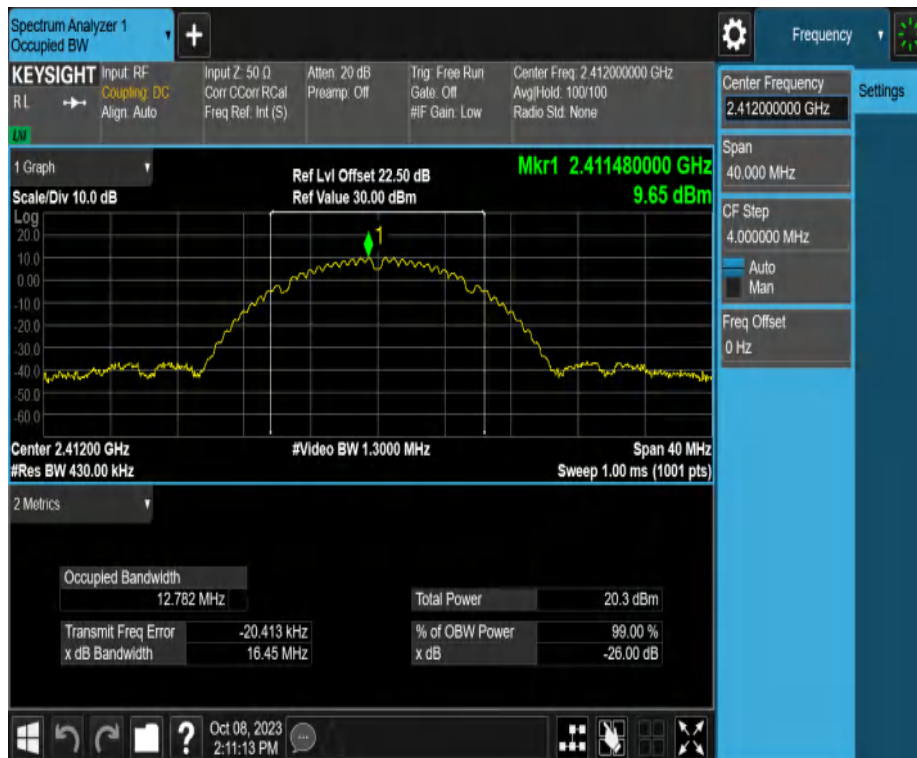
11AX40MIMO_Ant2_2452



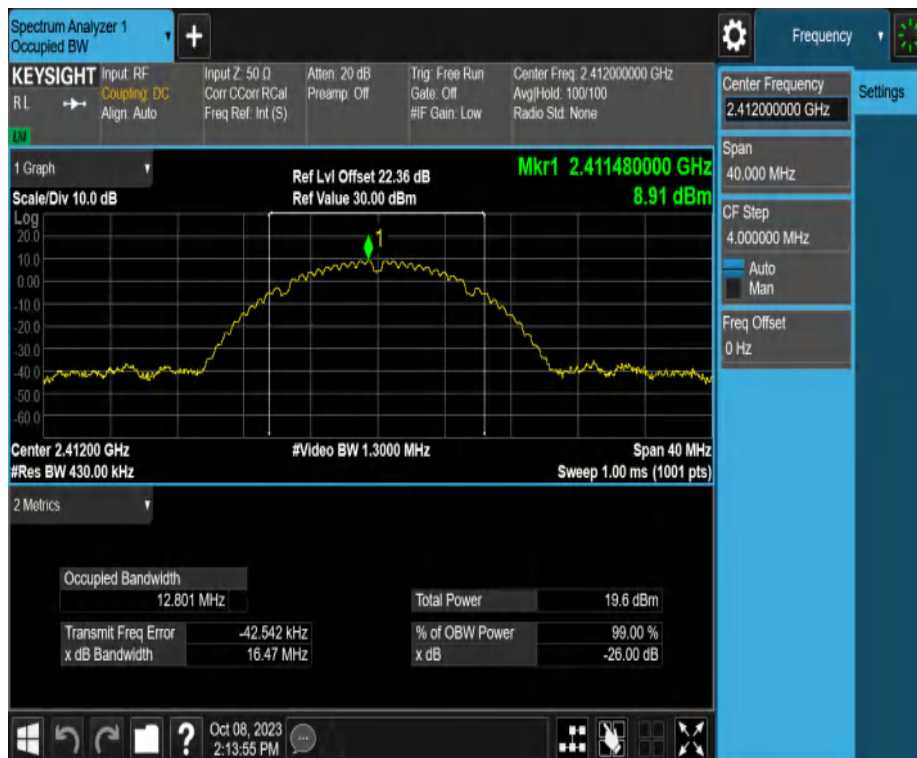
Occupied Channel Bandwidth

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.782	2405.5886	2418.3706	---	---
	Ant2	2412	12.801	2405.5570	2418.3580	---	---
	Ant1	2437	12.869	2430.5401	2443.4091	---	---
	Ant2	2437	12.851	2430.5716	2443.4226	---	---
	Ant1	2462	12.870	2455.5391	2468.4091	---	---
	Ant2	2462	12.844	2455.5240	2468.3680	---	---
11G	Ant1	2412	17.570	2403.2255	2420.7955	---	---
	Ant2	2412	17.138	2403.4173	2420.5553	---	---
	Ant1	2437	17.524	2428.1315	2445.6555	---	---
	Ant2	2437	17.252	2428.3955	2445.6475	---	---
	Ant1	2462	17.596	2453.1572	2470.7532	---	---
	Ant2	2462	17.206	2453.3829	2470.5889	---	---
11N20MIMO	Ant1	2412	18.580	2402.6939	2421.2739	---	---
	Ant2	2412	18.187	2402.8343	2421.0213	---	---
	Ant1	2437	18.703	2427.5716	2446.2746	---	---
	Ant2	2437	18.193	2427.9076	2446.1006	---	---
	Ant1	2462	18.767	2452.6499	2471.4169	---	---
	Ant2	2462	18.175	2452.9116	2471.0866	---	---
11N40MIMO	Ant1	2422	35.989	2404.0090	2439.9980	---	---
	Ant2	2422	36.129	2403.9350	2440.0640	---	---
	Ant1	2437	36.051	2418.9610	2455.0120	---	---
	Ant2	2437	36.067	2419.0088	2455.0758	---	---
	Ant1	2452	36.007	2434.0122	2470.0192	---	---
	Ant2	2452	35.963	2433.9848	2469.9478	---	---
11AX20MIMO	Ant1	2412	19.106	2402.4680	2421.5740	---	---
	Ant2	2412	19.170	2402.4421	2421.6121	---	---
	Ant1	2437	19.040	2427.4828	2446.5228	---	---
	Ant2	2437	19.056	2427.4720	2446.5280	---	---
	Ant1	2462	19.048	2452.4782	2471.5262	---	---
	Ant2	2462	19.042	2452.4769	2471.5189	---	---
11AX40MIMO	Ant1	2422	37.580	2403.2017	2440.7817	---	---
	Ant2	2422	37.661	2403.1692	2440.8302	---	---
	Ant1	2437	37.800	2418.1505	2455.9505	---	---
	Ant2	2437	37.619	2418.2411	2455.8601	---	---
	Ant1	2452	37.631	2433.1401	2470.7711	---	---
	Ant2	2452	37.758	2433.0960	2470.8540	---	---

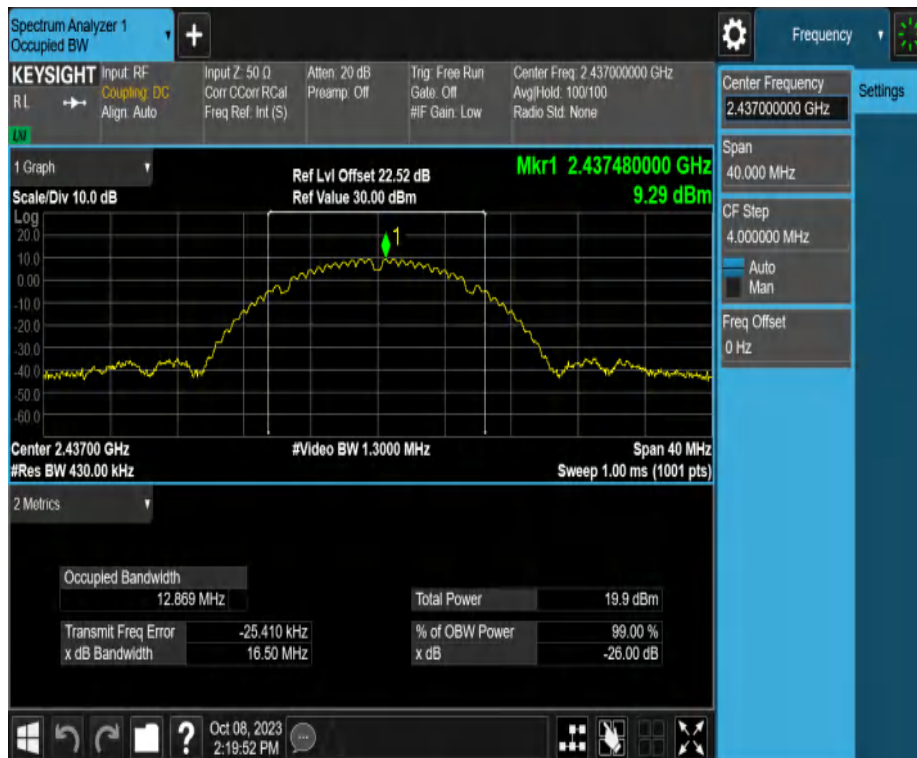
11B-CDD_Ant1_2412



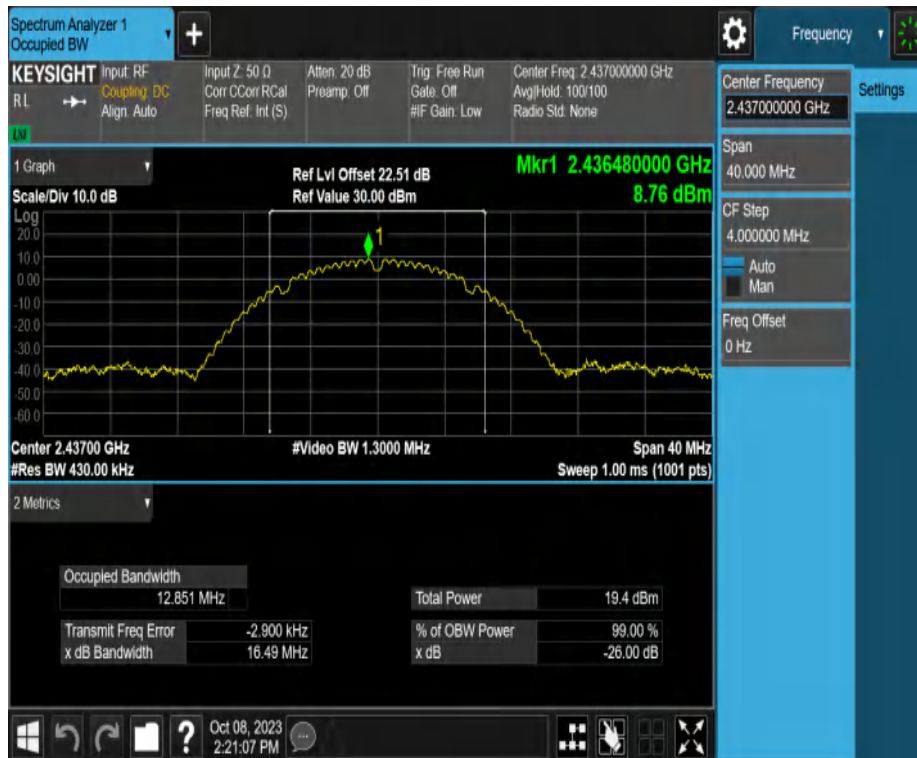
11B-CDD_Ant2_2412



11B-CDD_Ant1_2437



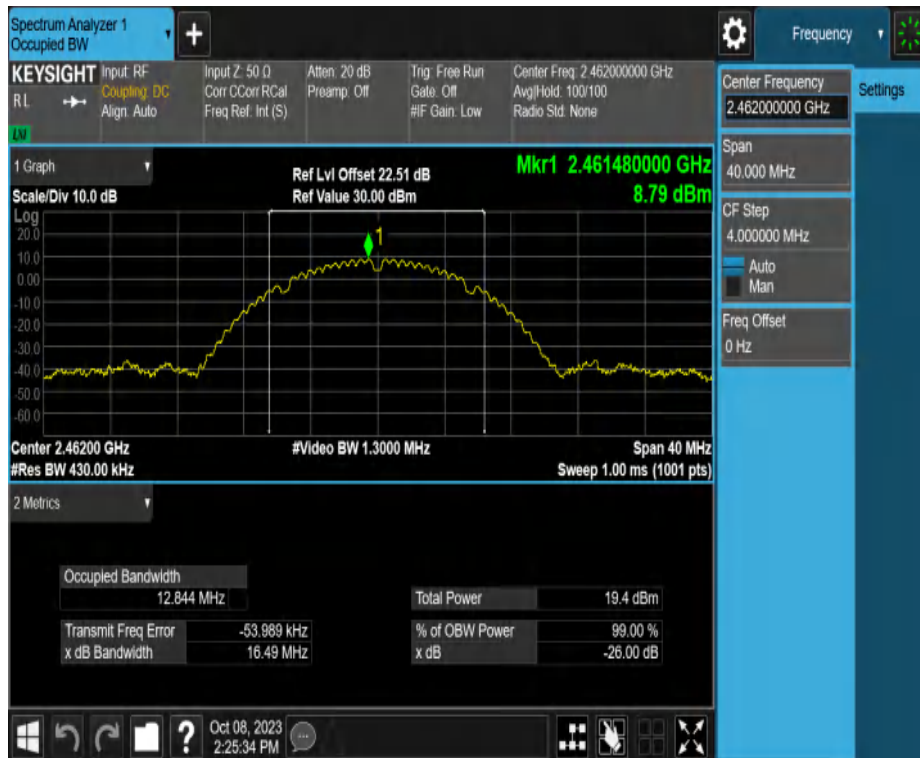
11B-CDD_Ant2_2437



11B-CDD_Ant1_2462



11B-CDD_Ant2_2462



11G-CDD_Ant1_2412



11G-CDD_Ant2_2412

