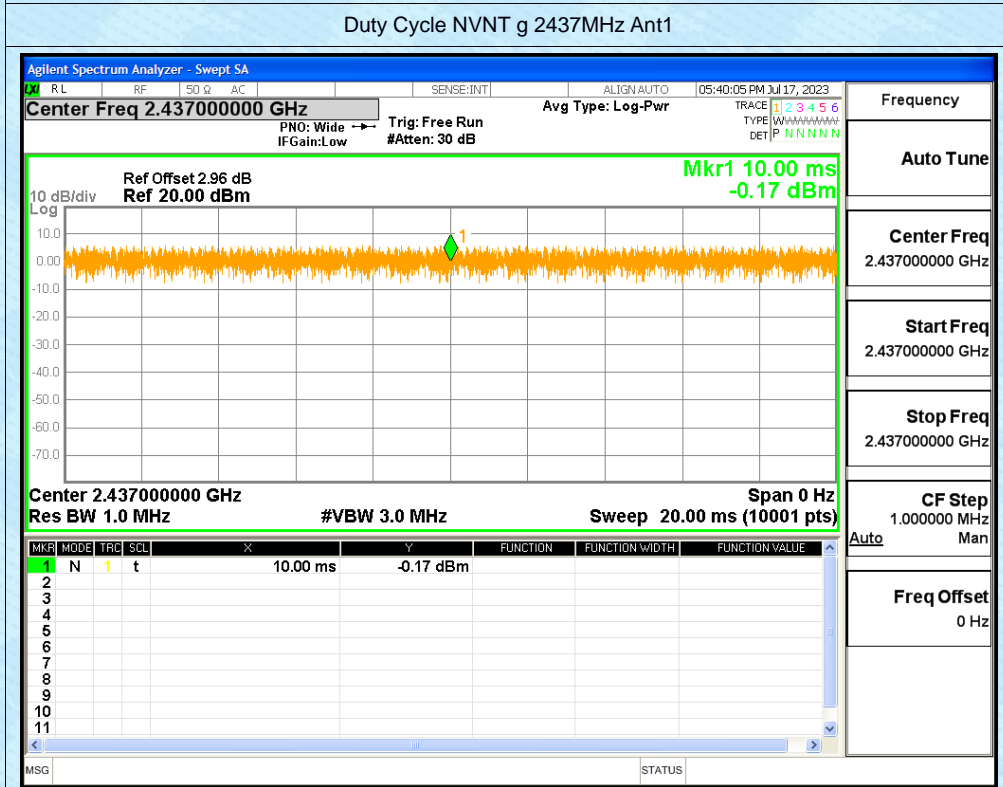
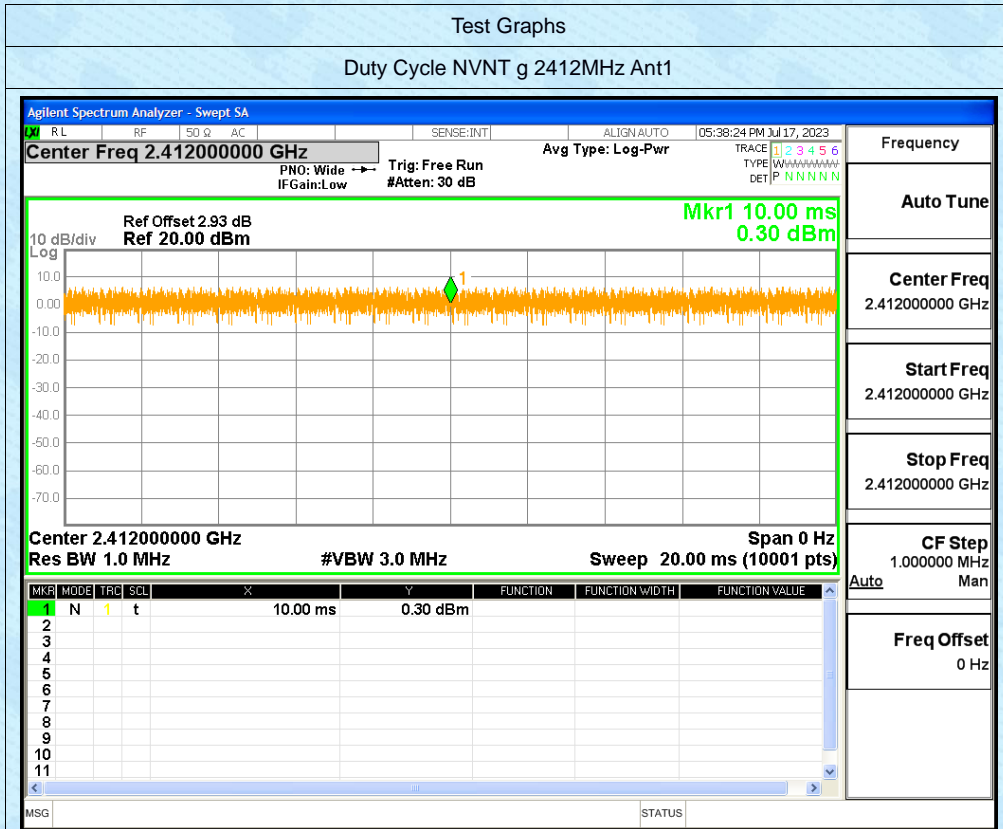
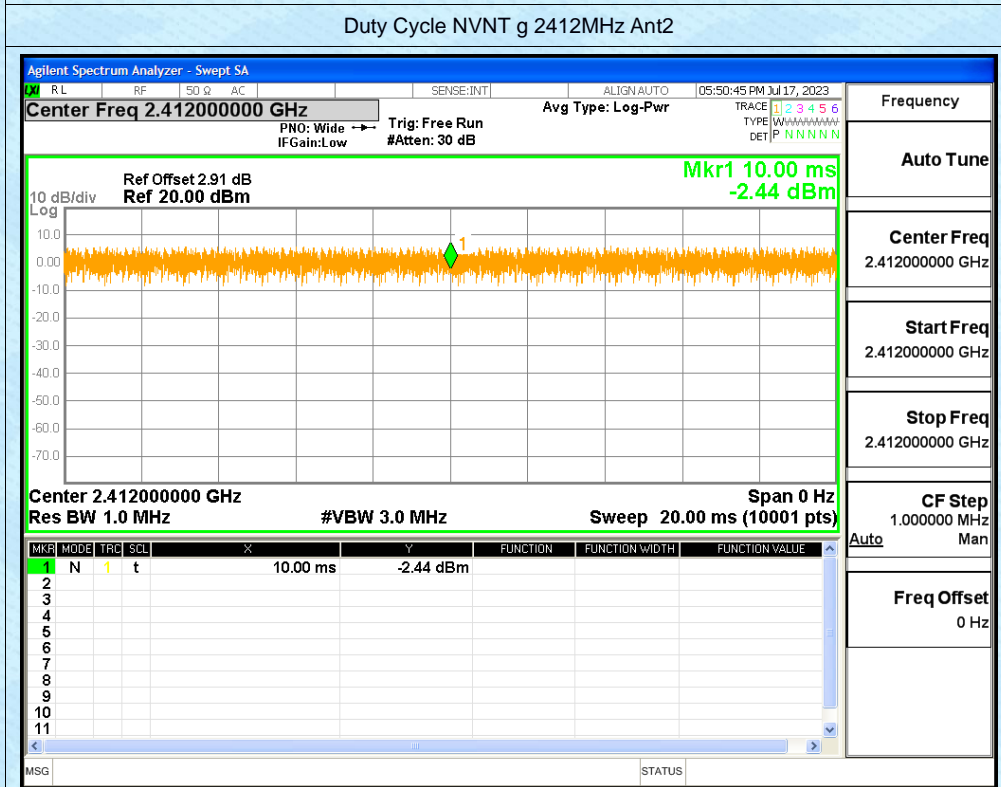
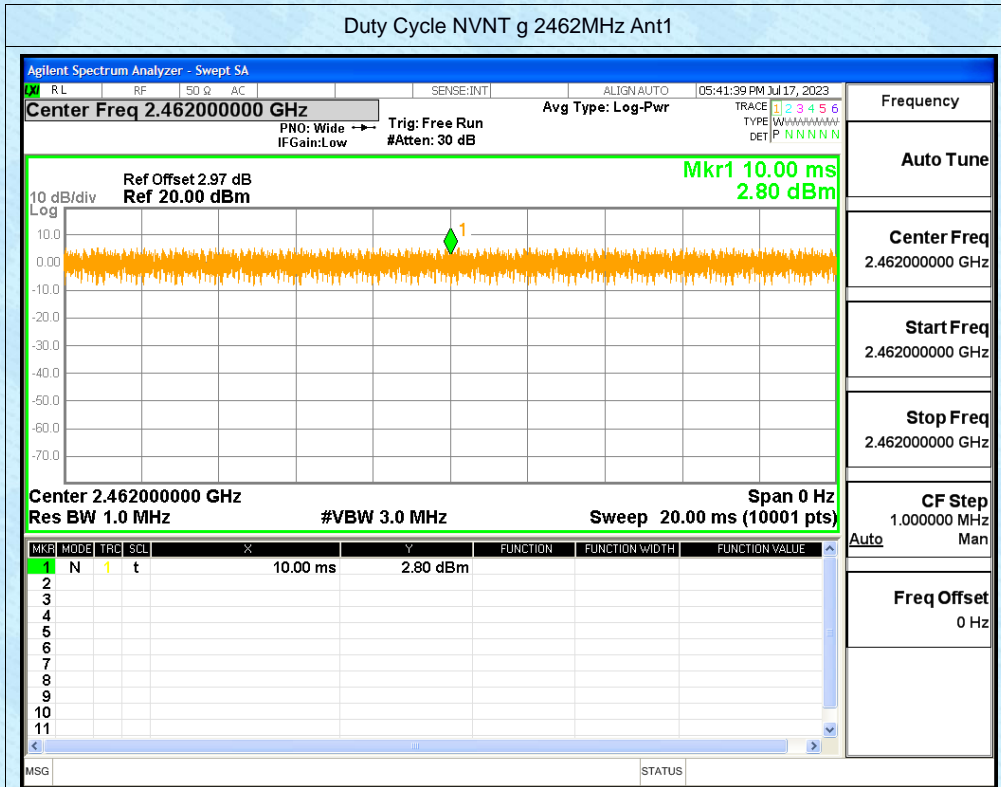
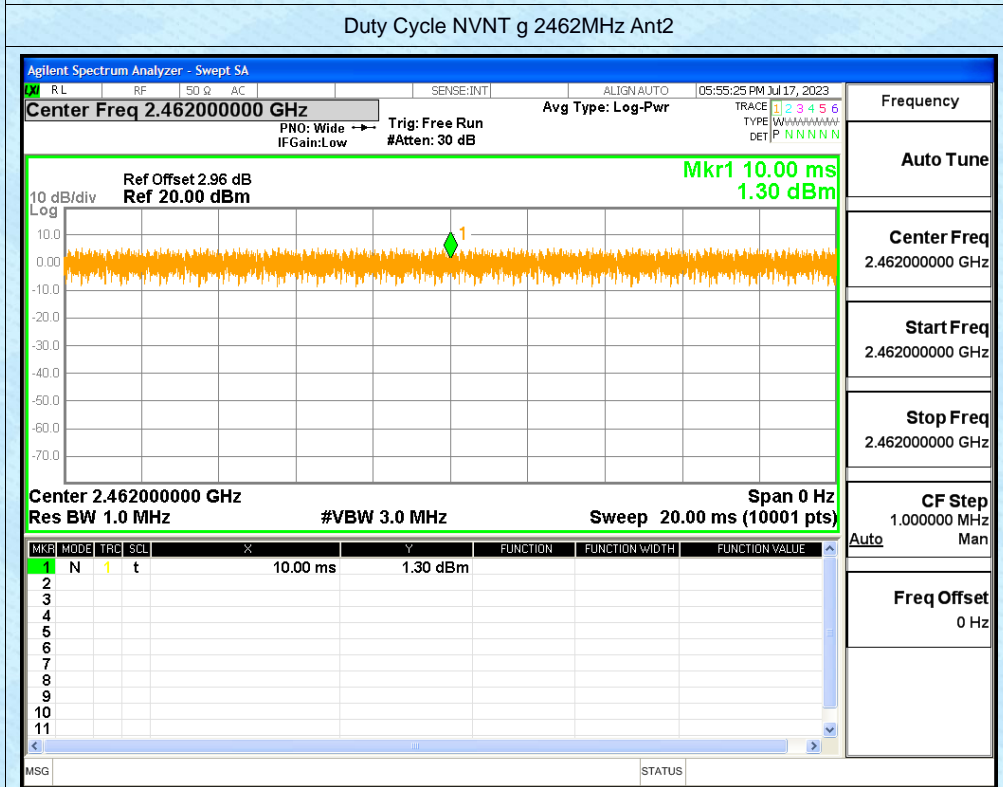
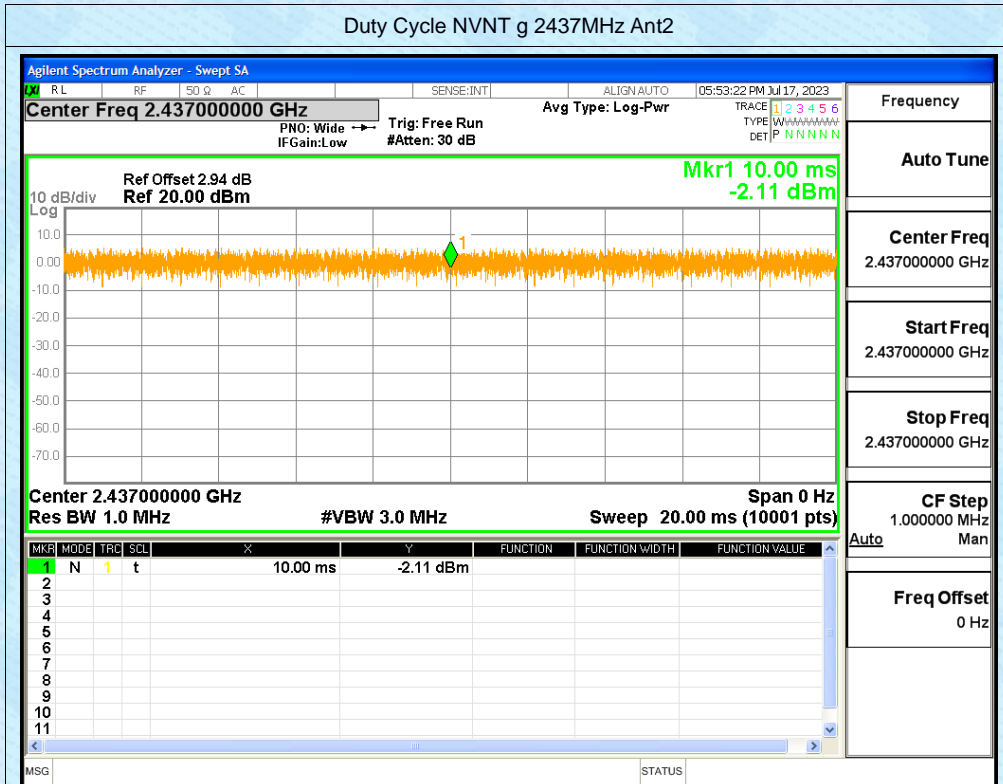


## Duty Cycle

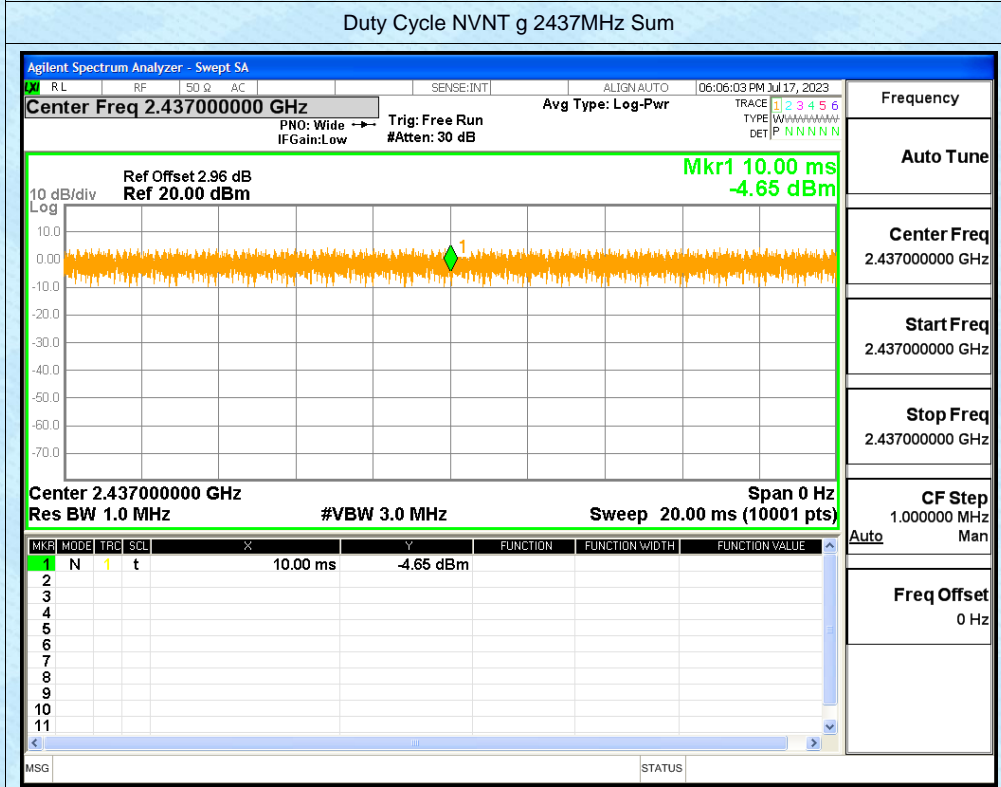
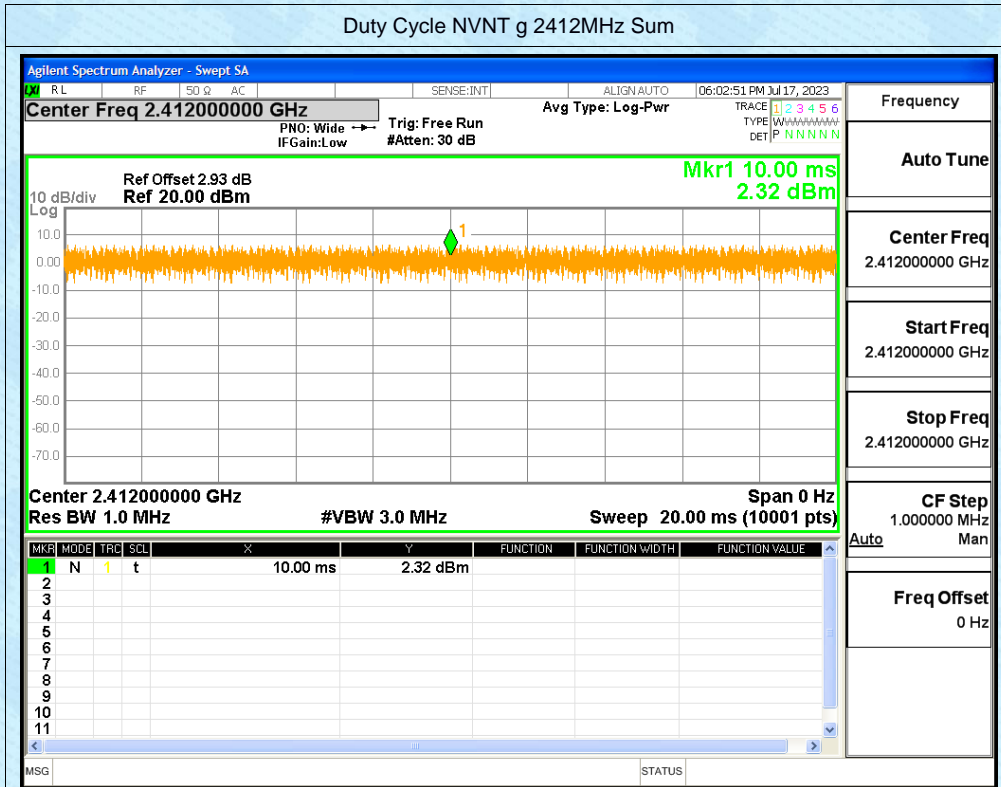
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	g	2412	Ant1	100	0	0
		2437		100	0	0
		2462		100	0	0
		2412	Ant2	100	0	0
		2437		100	0	0
		2462		100	0	0
		2412	Sum	100	0	0
		2437		100	0	0
		2462		100	0	0
	n20	Ant1	2412	100	0	0
			2437	100	0	0
			2462	100	0	0
		Ant2	2412	100	0	0
			2437	100	0	0
			2462	100	0	0
		Sum	2412	100	0	0
			2437	100	0	0
			2462	100	0	0

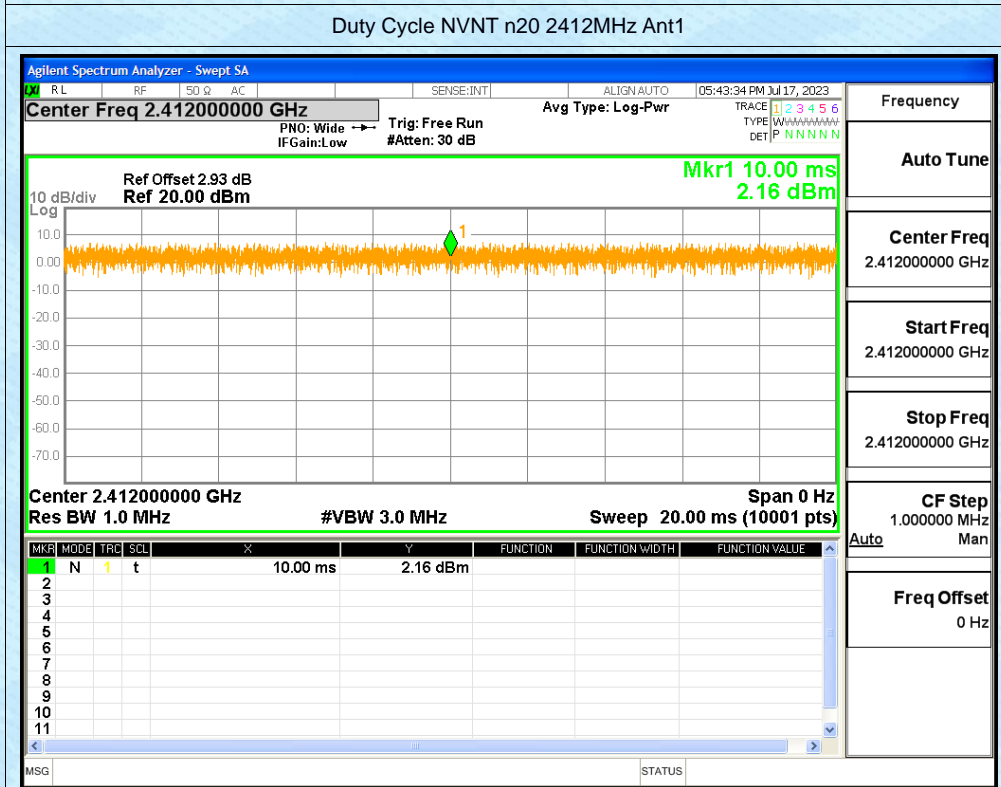
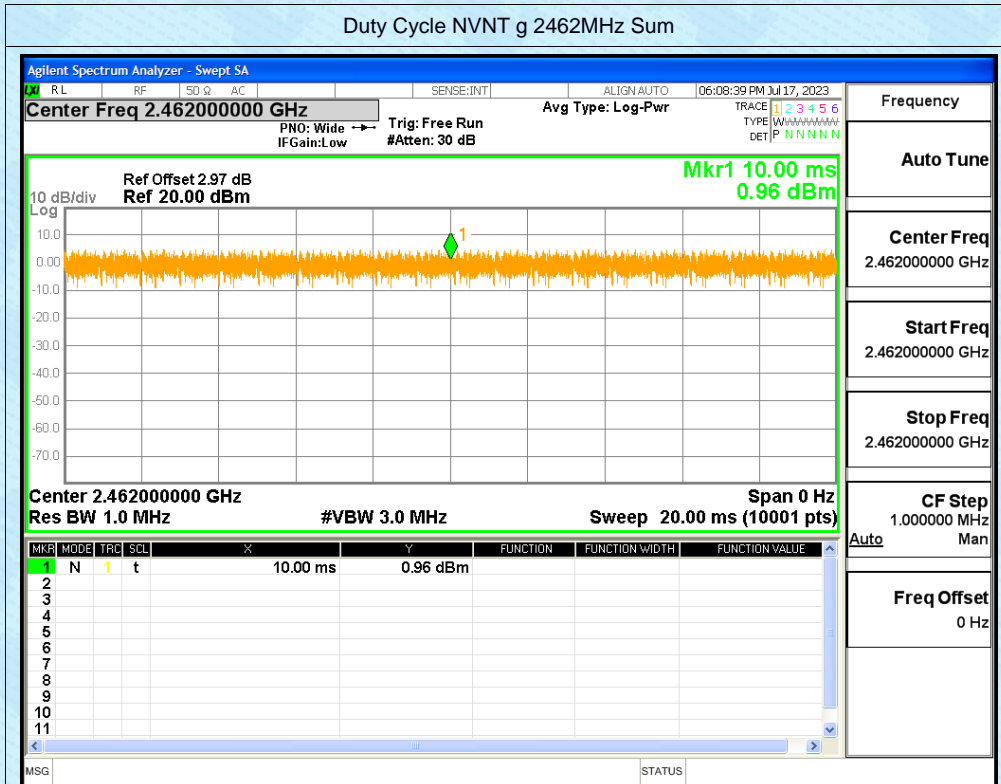


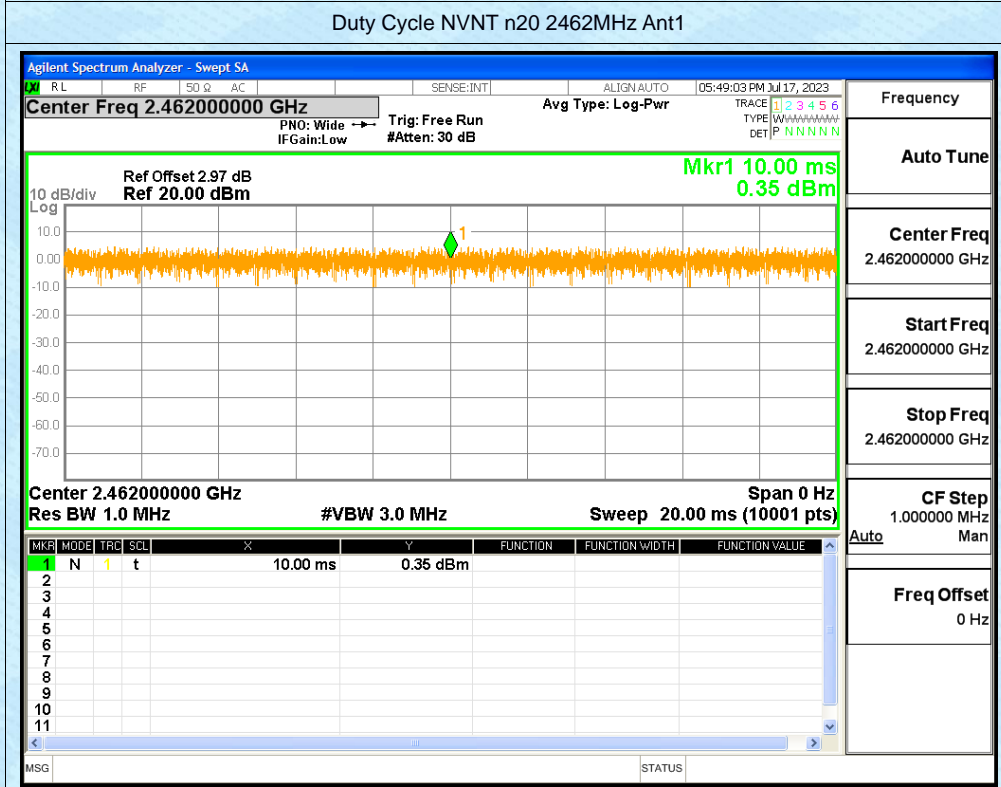
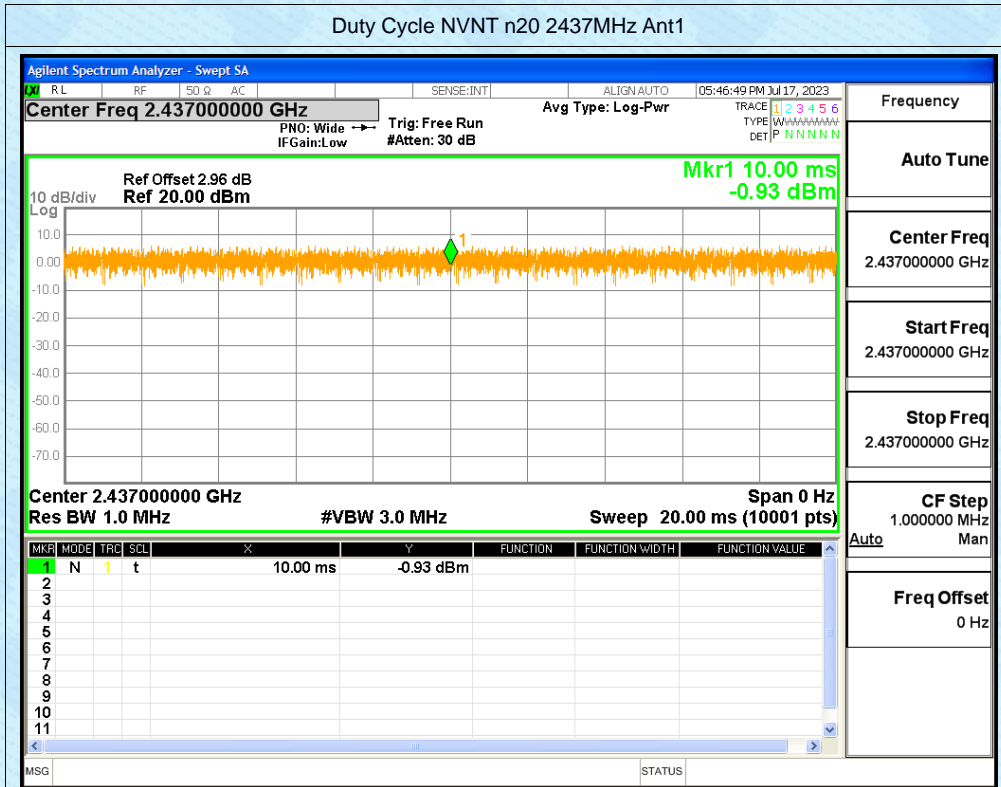


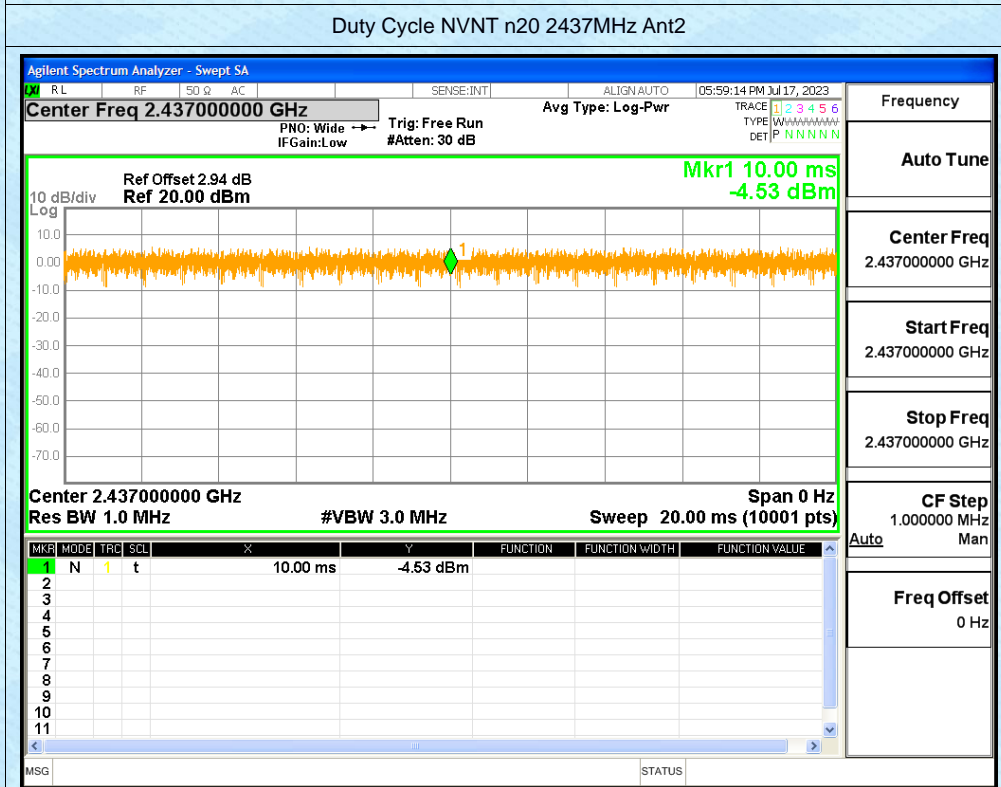
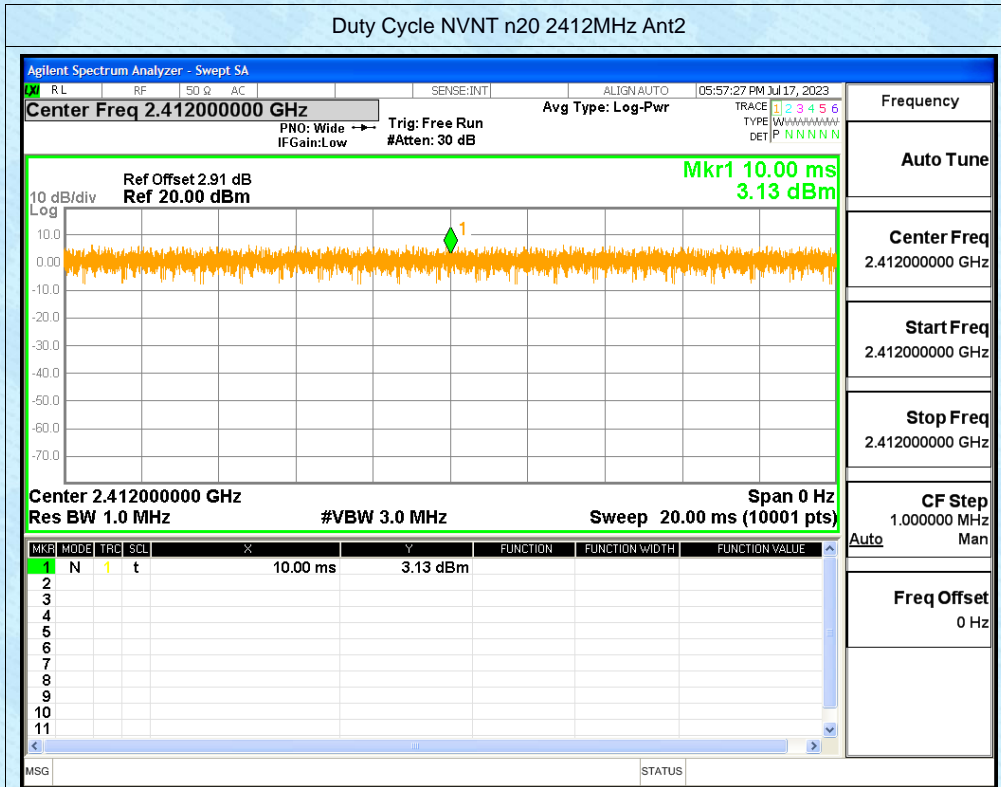




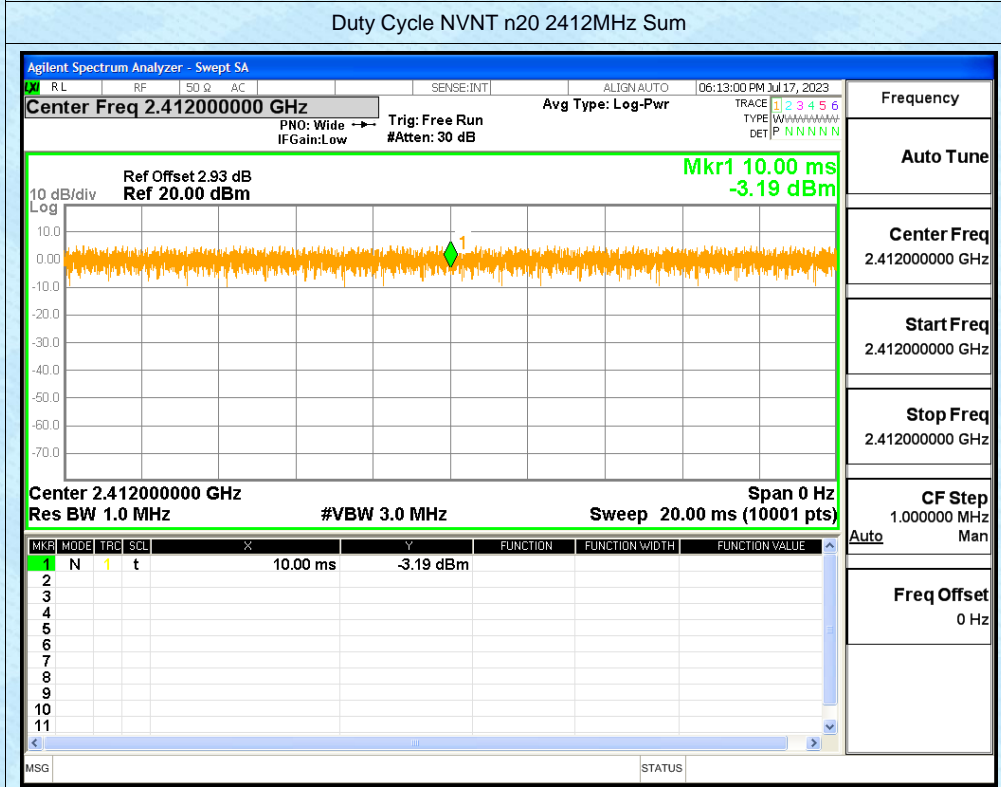
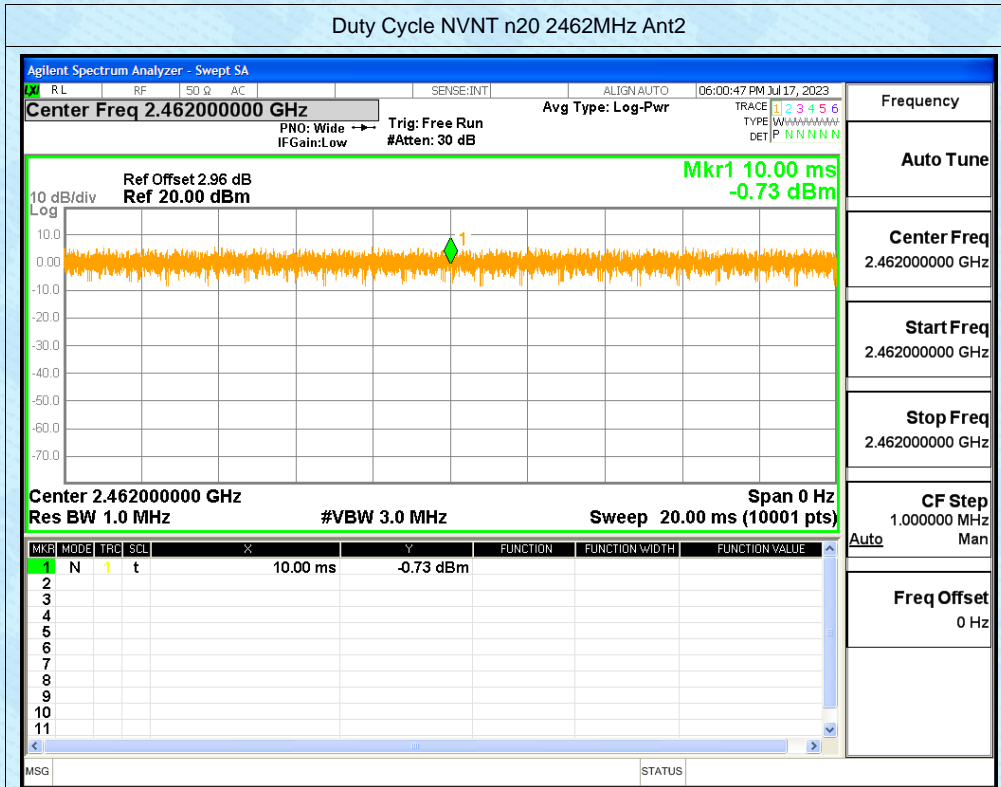


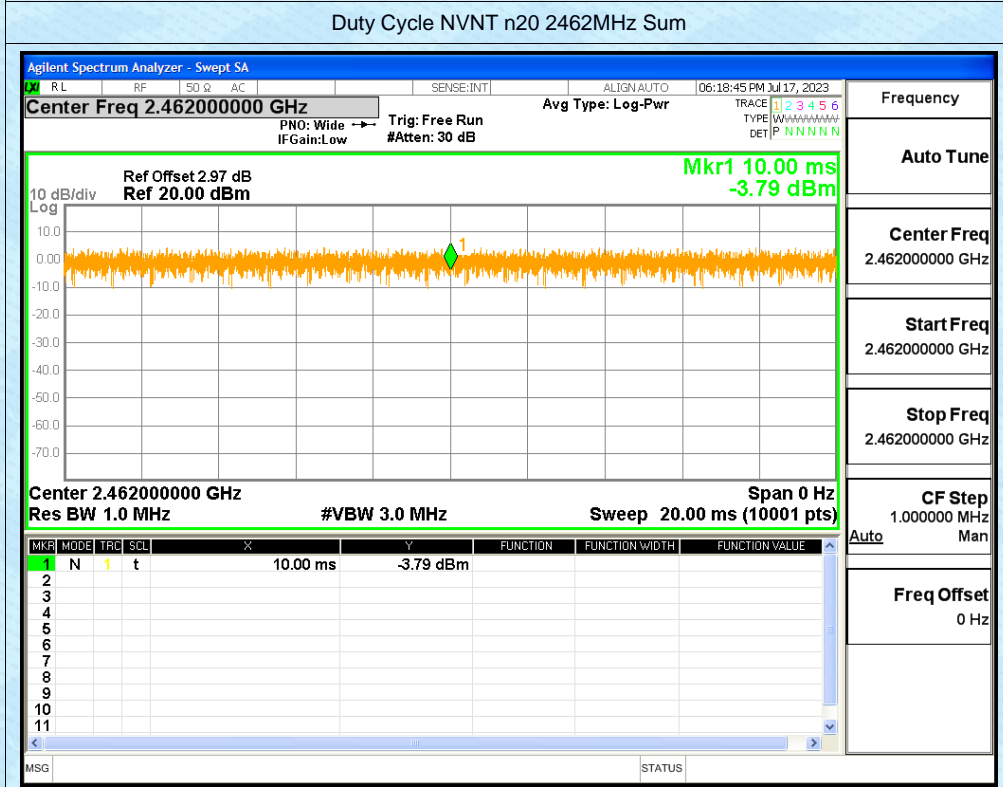
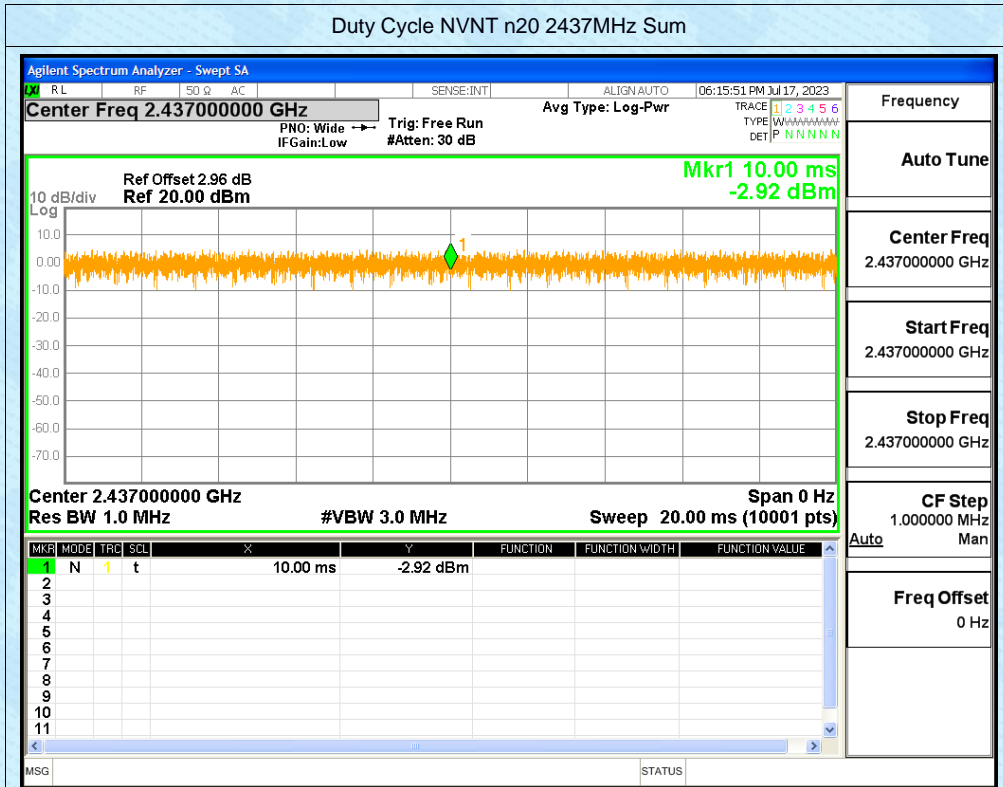












## Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict	
NVNT	g	2412	Ant1	7.46	0	7.46	30	Pass	
		2437		6.57	0	6.57	30	Pass	
		2462		6.69	0	6.69	30	Pass	
		2412	Ant2	7.02	0	7.02	30	Pass	
		2437		6.25	0	6.25	30	Pass	
		2462		5.76	0	5.76	30	Pass	
		2412	Ant1	7.32	0	7.32	30	Pass	
			Ant2	6.44	0	6.44	30	Pass	
			Sum	9.91	0	9.91	30	Pass	
		2437	Ant1	4.88	0	4.88	30	Pass	
			Ant2	4.31	0	4.31	30	Pass	
			Sum	7.61	0	7.61	30	Pass	
		2462	Ant1	6.02	0	6.02	30	Pass	
			Ant2	4.96	0	4.96	30	Pass	
			Sum	8.53	0	8.53	30	Pass	
		n20	2412	Ant1	8.83	0	8.83	30	Pass
			2437		7.37	0	7.37	30	Pass
			2462		6.67	0	6.67	30	Pass
	2412		Ant2	7.92	0	7.92	30	Pass	
	2437			6.84	0	6.84	30	Pass	
	2462			6.3	0	6.3	30	Pass	
	2412		Ant1	6.57	0	6.57	30	Pass	
			Ant2	5.71	0	5.71	30	Pass	
			Sum	9.17	0	9.17	30	Pass	
	2437		Ant1	5.96	0	5.96	30	Pass	
			Ant2	5.38	0	5.38	30	Pass	
			Sum	8.69	0	8.69	30	Pass	
	2462	Ant1	6.03	0	6.03	30	Pass		
		Ant2	4.94	0	4.94	30	Pass		
		Sum	8.53	0	8.53	30	Pass		

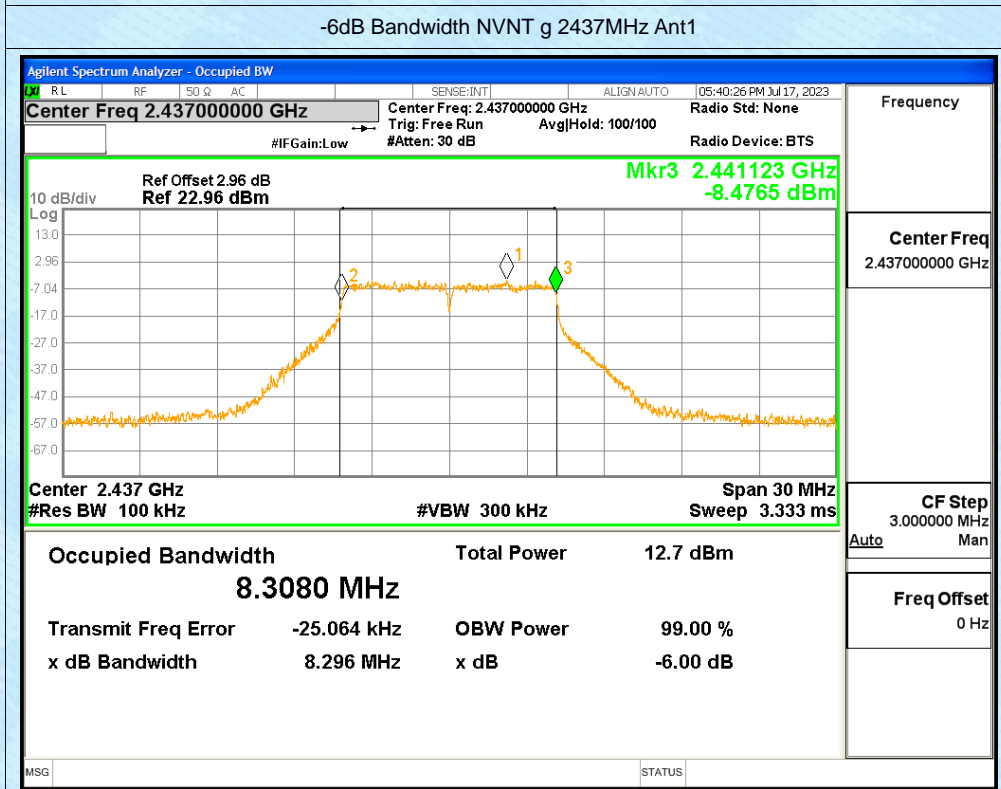
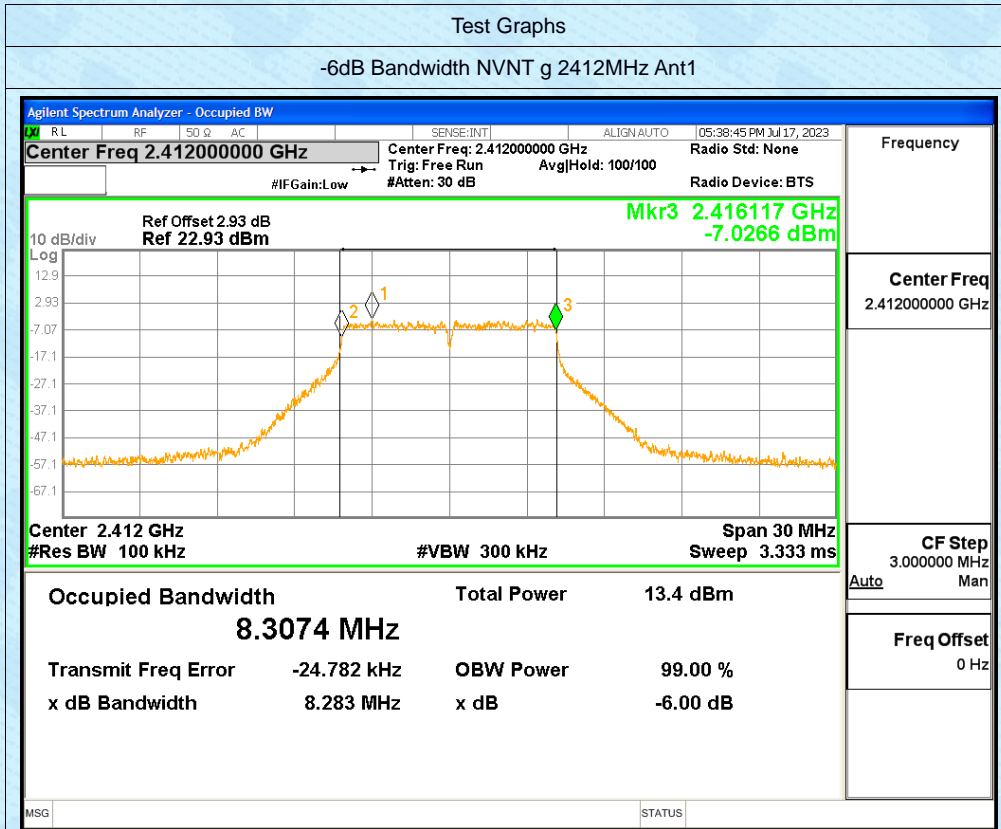
**Note:** transmit signals are completely correlated,

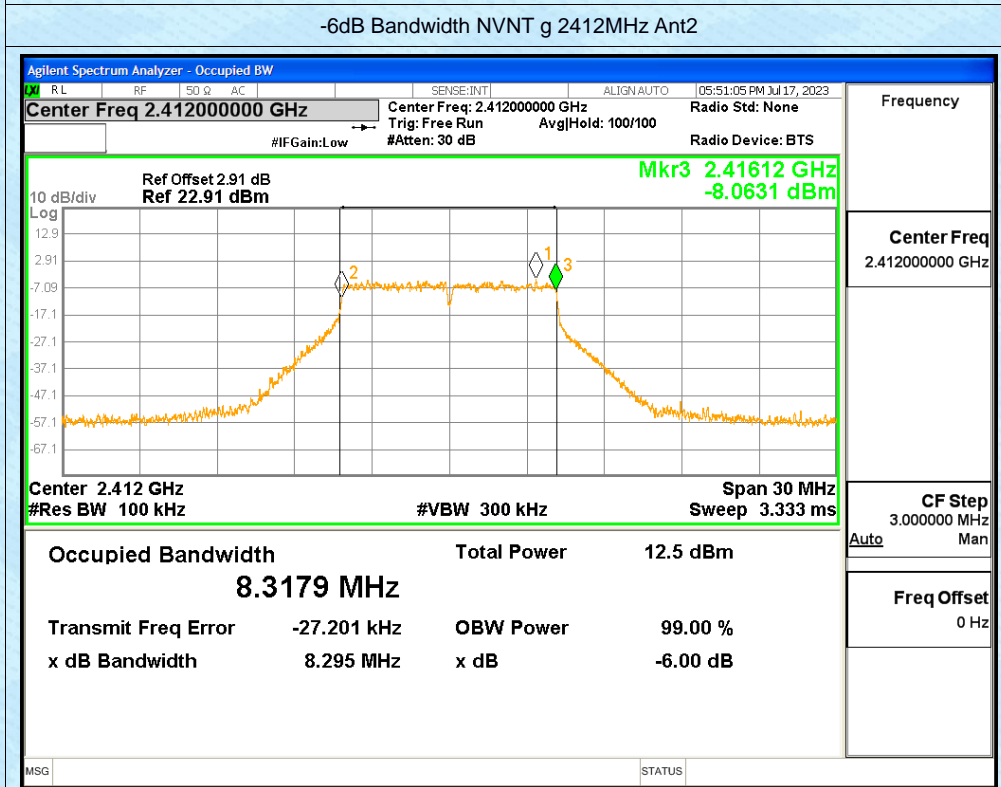
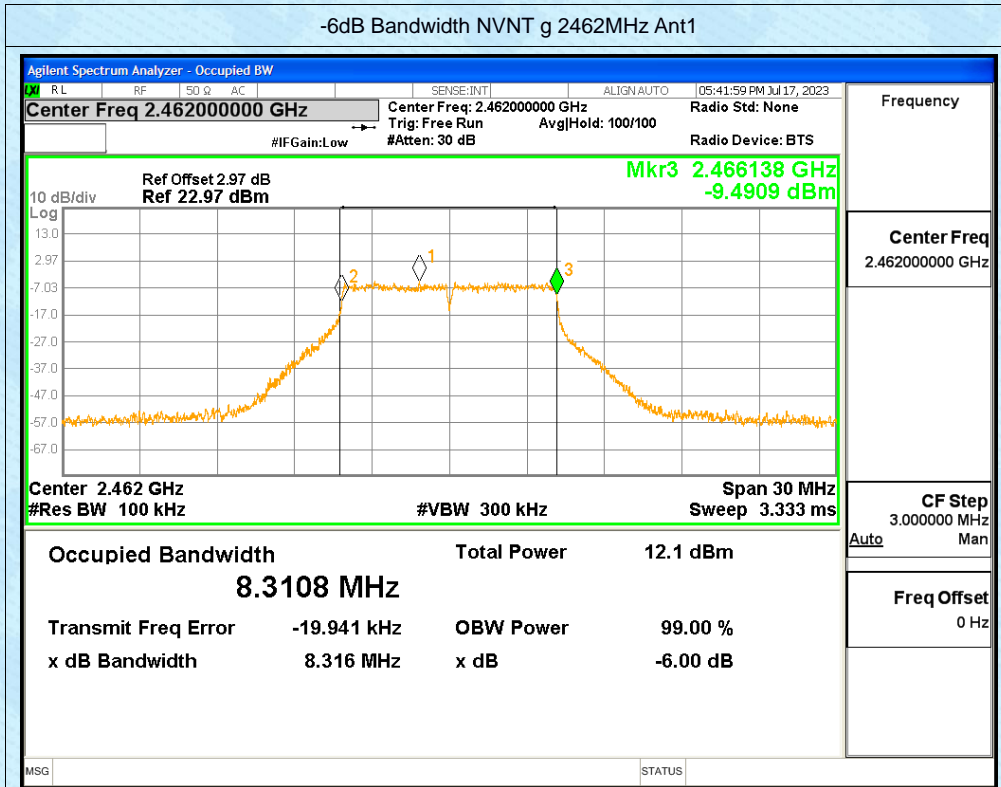
Directional gain= $10 \times \log[(2/20 + 2/20)^2/2] = 5.01 \text{ dBi}$

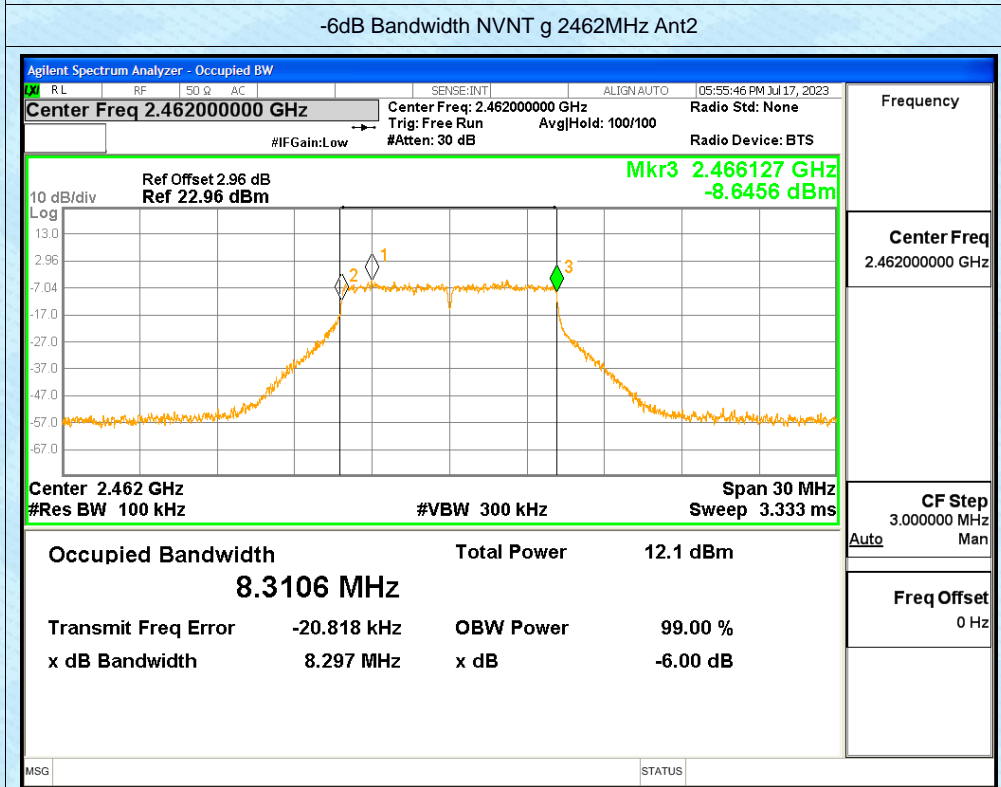
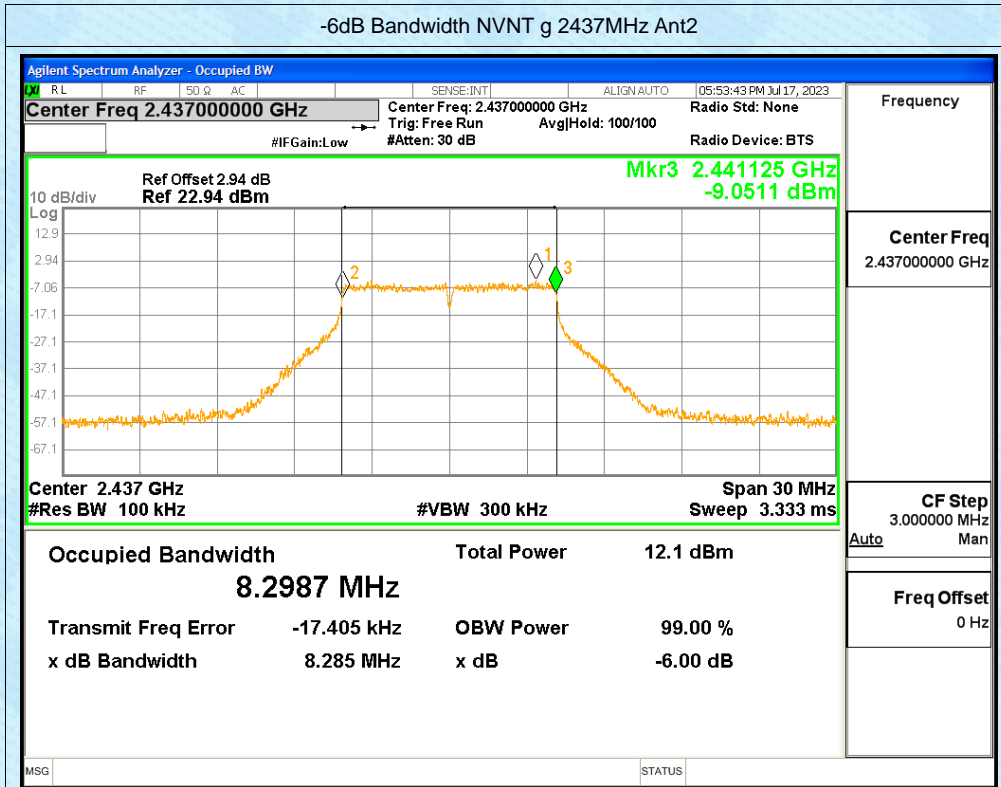
## -6dB Bandwidth

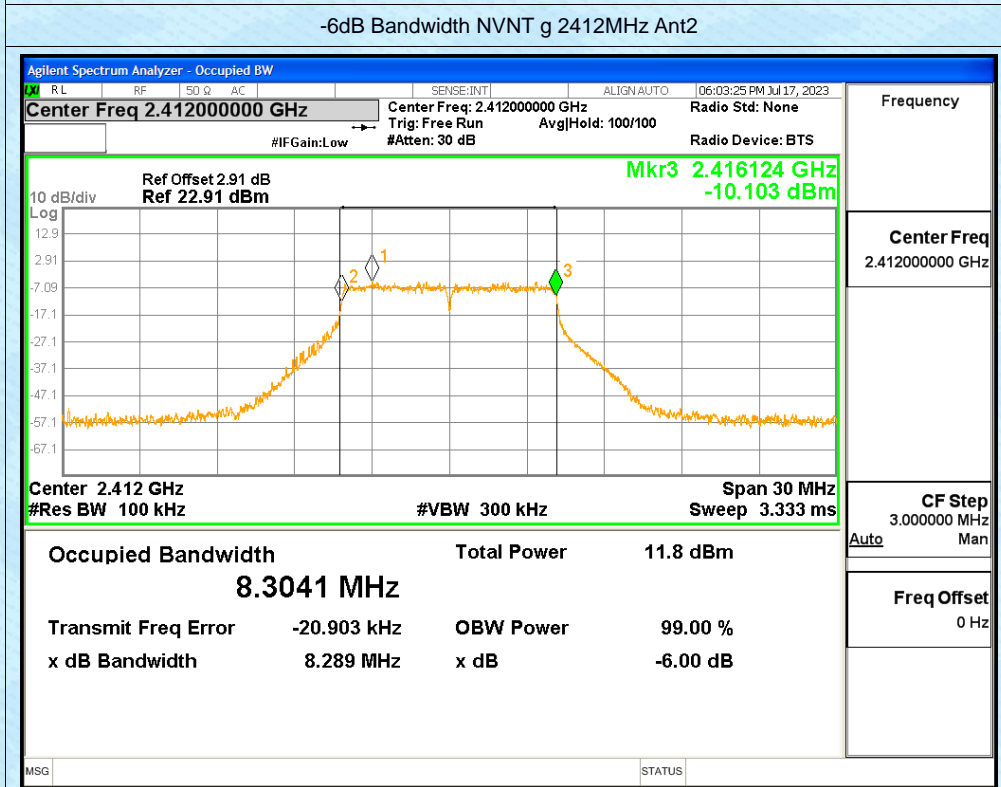
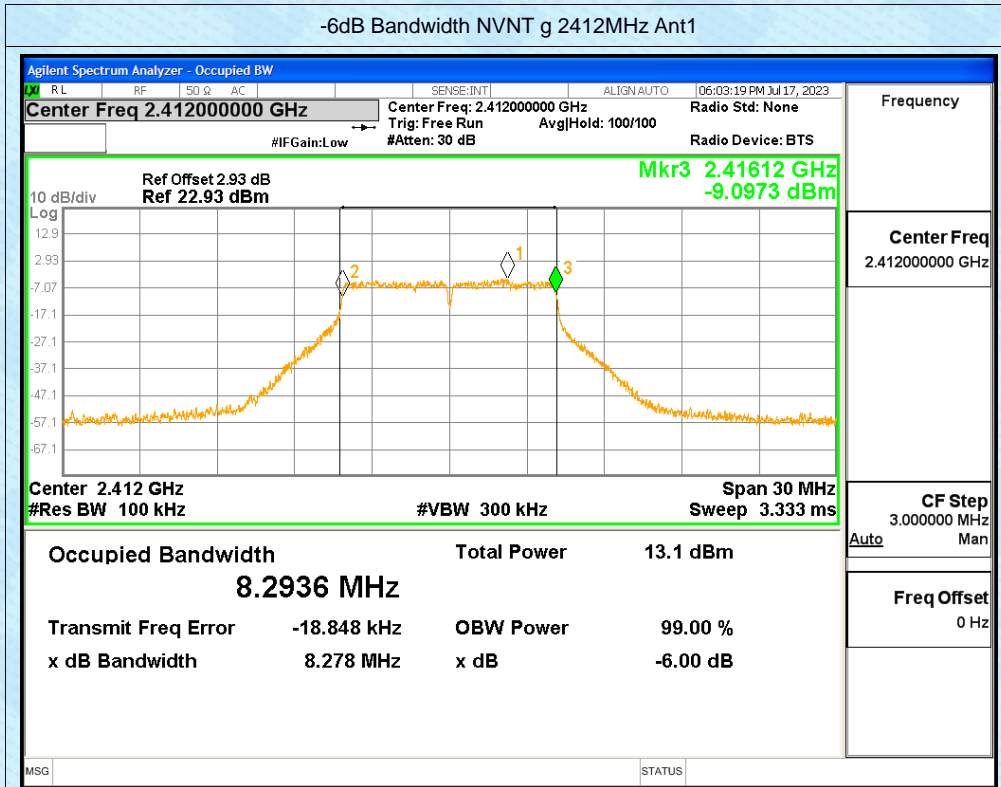
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	g	2412	Ant1	8.283	0.5	Pass
		2437		8.296	0.5	Pass
		2462		8.316	0.5	Pass
		2412	Ant2	8.295	0.5	Pass
		2437		8.285	0.5	Pass
		2462		8.297	0.5	Pass
		2412	Ant1	8.278	0.5	Pass
			Ant2	8.289	0.5	Pass
		2437	Ant1	8.274	0.5	Pass
			Ant2	8.269	0.5	Pass
		2462	Ant1	8.268	0.5	Pass
			Ant2	8.287	0.5	Pass
	n20	2412	Ant1	8.903	0.5	Pass
		2437		8.871	0.5	Pass
		2462		8.907	0.5	Pass
		2412	Ant2	8.912	0.5	Pass
		2437		8.921	0.5	Pass
		2462		8.9	0.5	Pass
		2412	Ant1	8.87	0.5	Pass
			Ant2	8.911	0.5	Pass
		2437	Ant1	8.872	0.5	Pass
			Ant2	8.886	0.5	Pass
		2462	Ant1	8.866	0.5	Pass
			Ant2	8.921	0.5	Pass



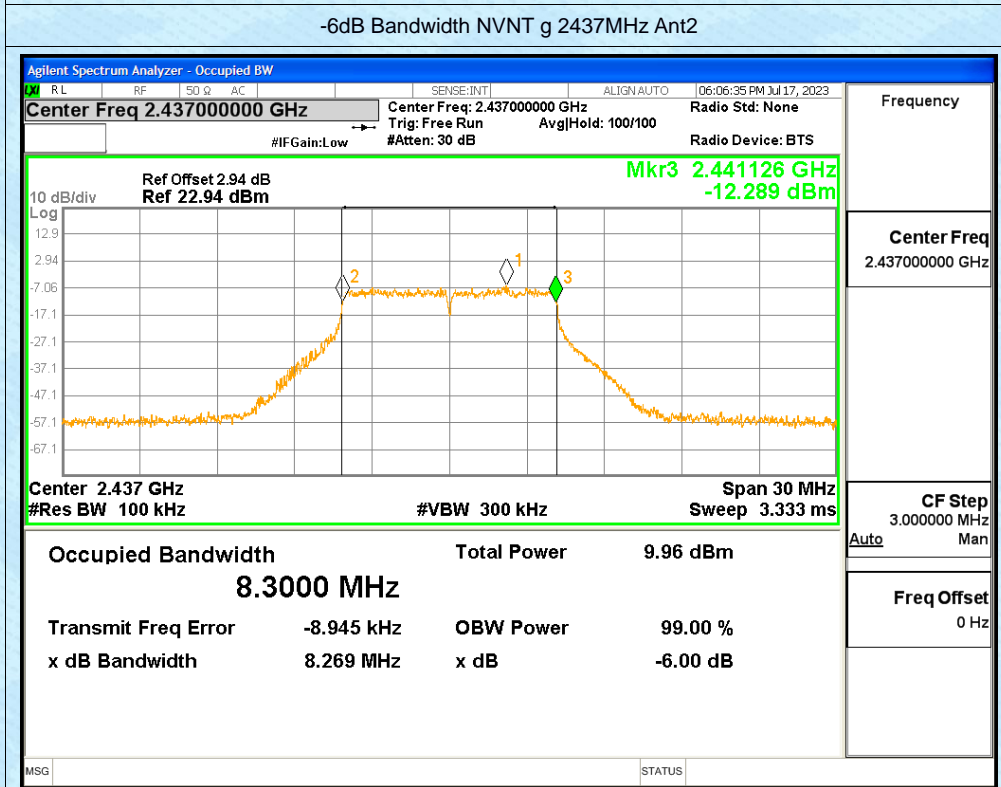
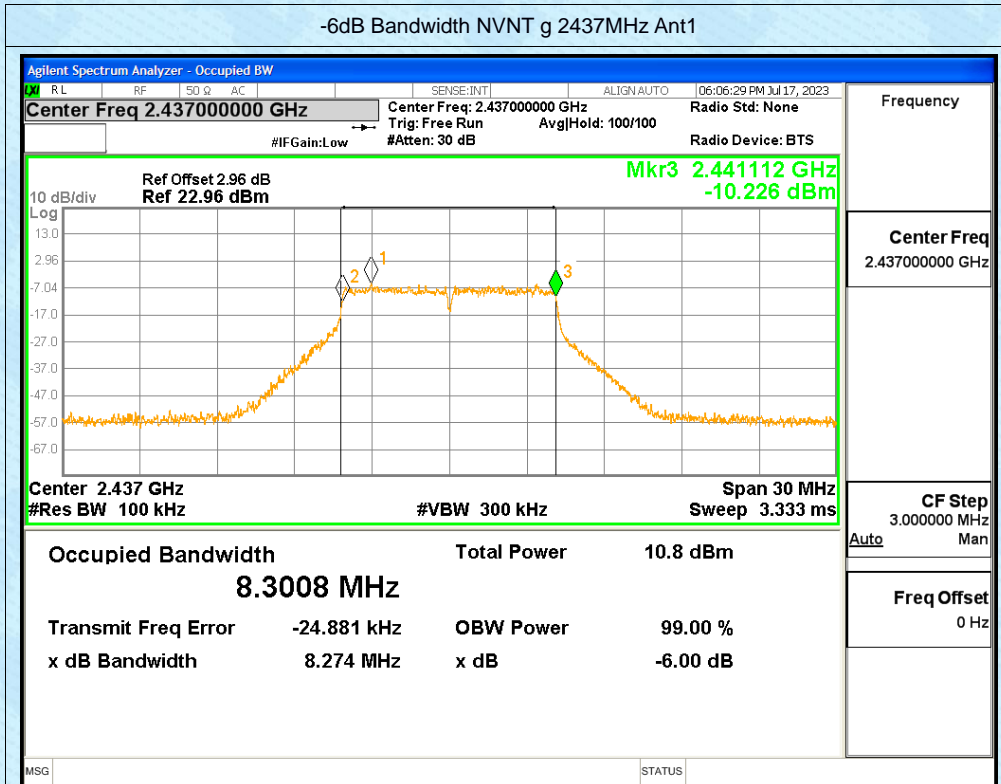


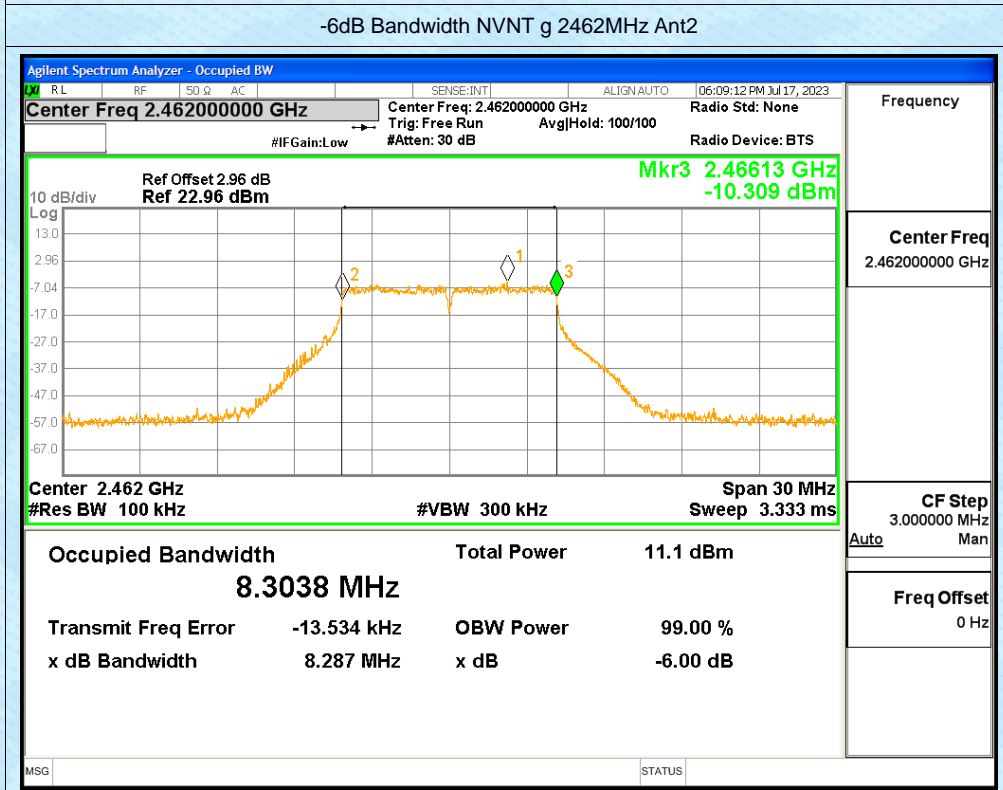
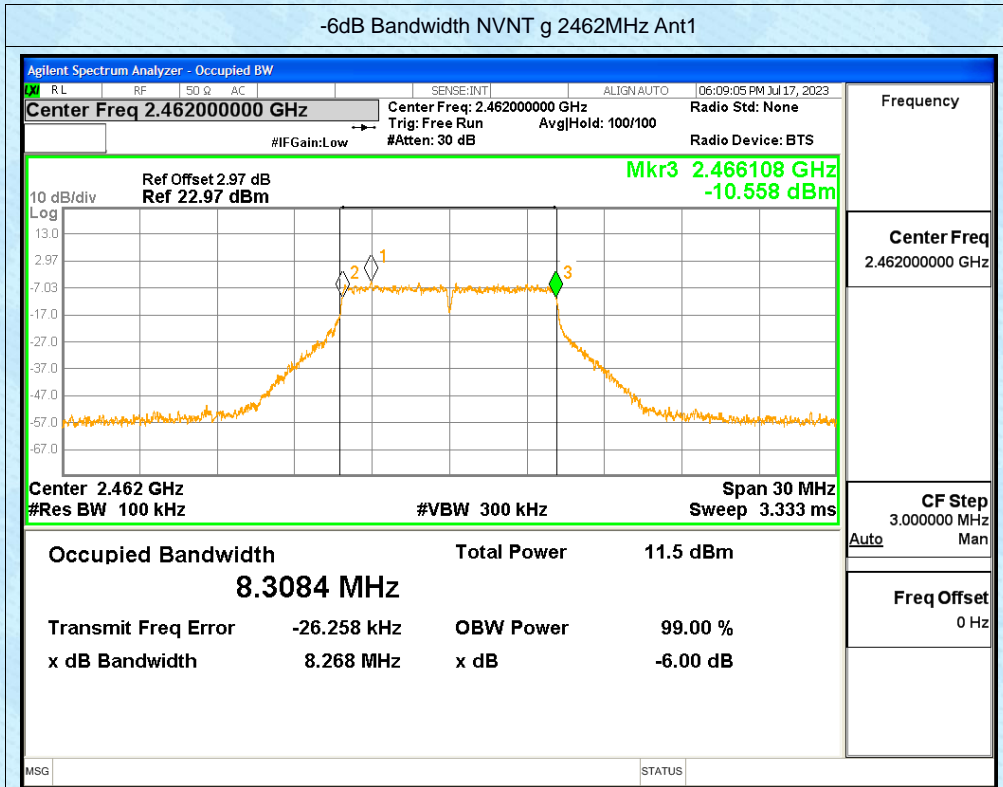


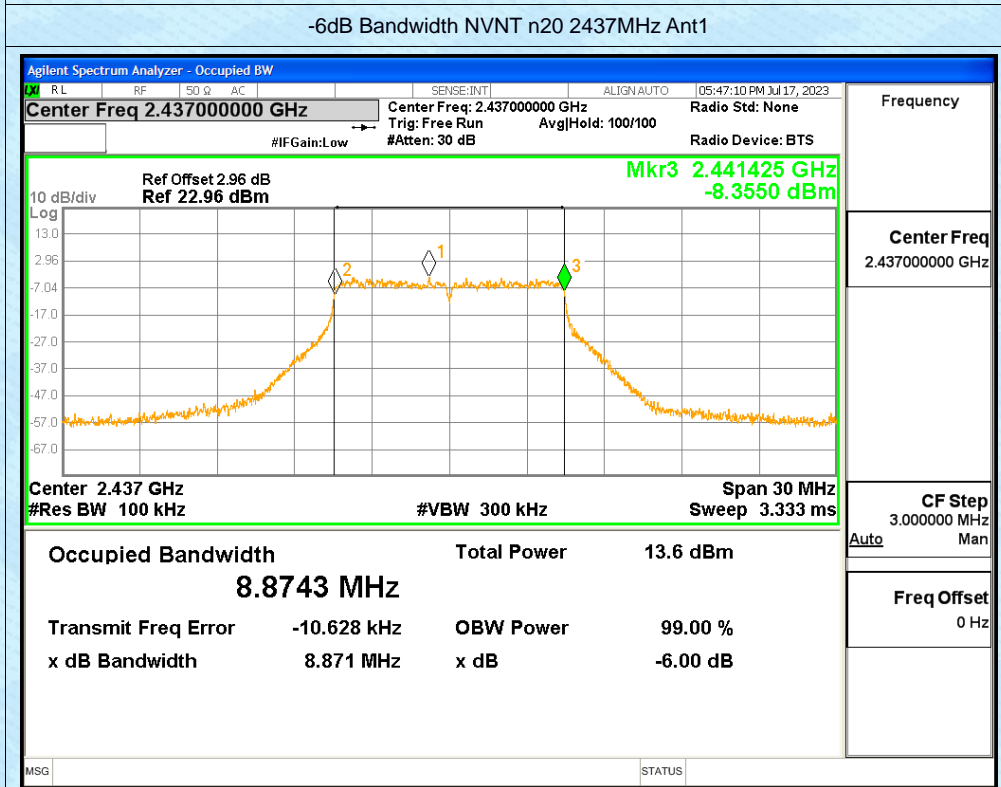
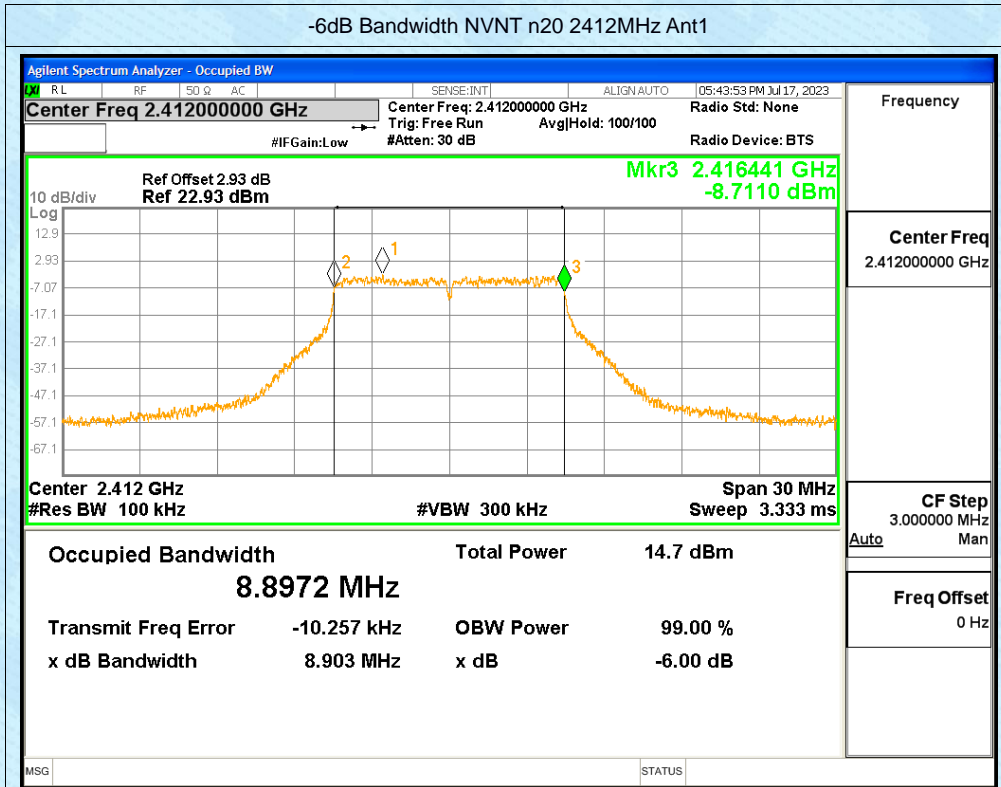


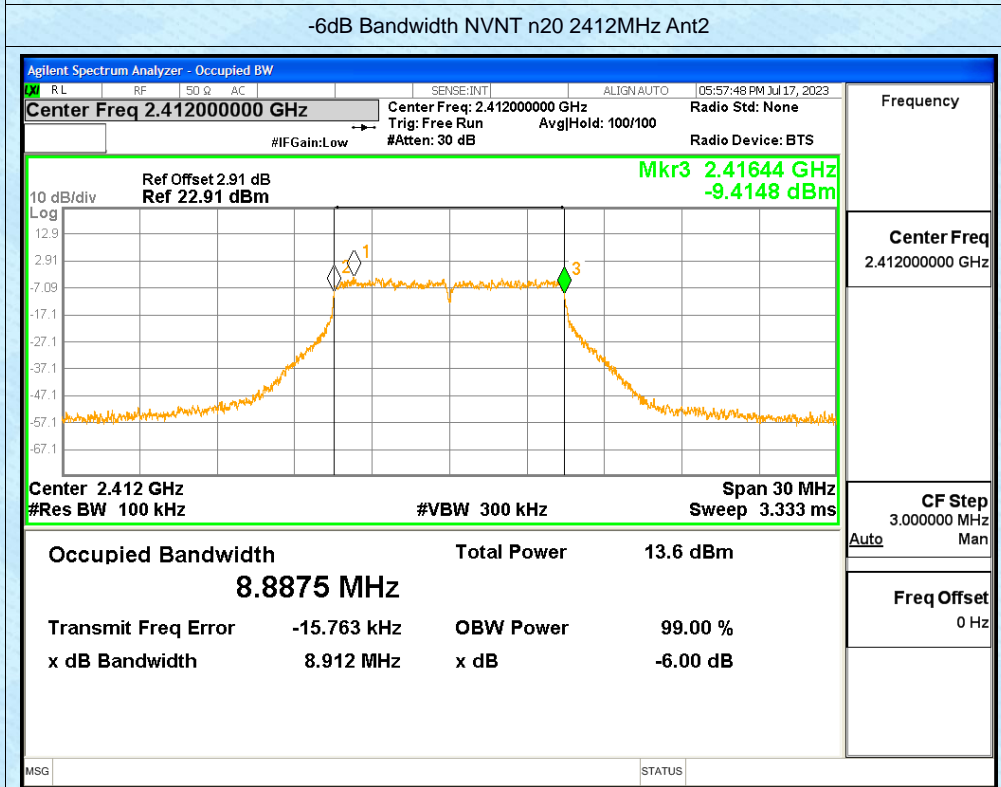
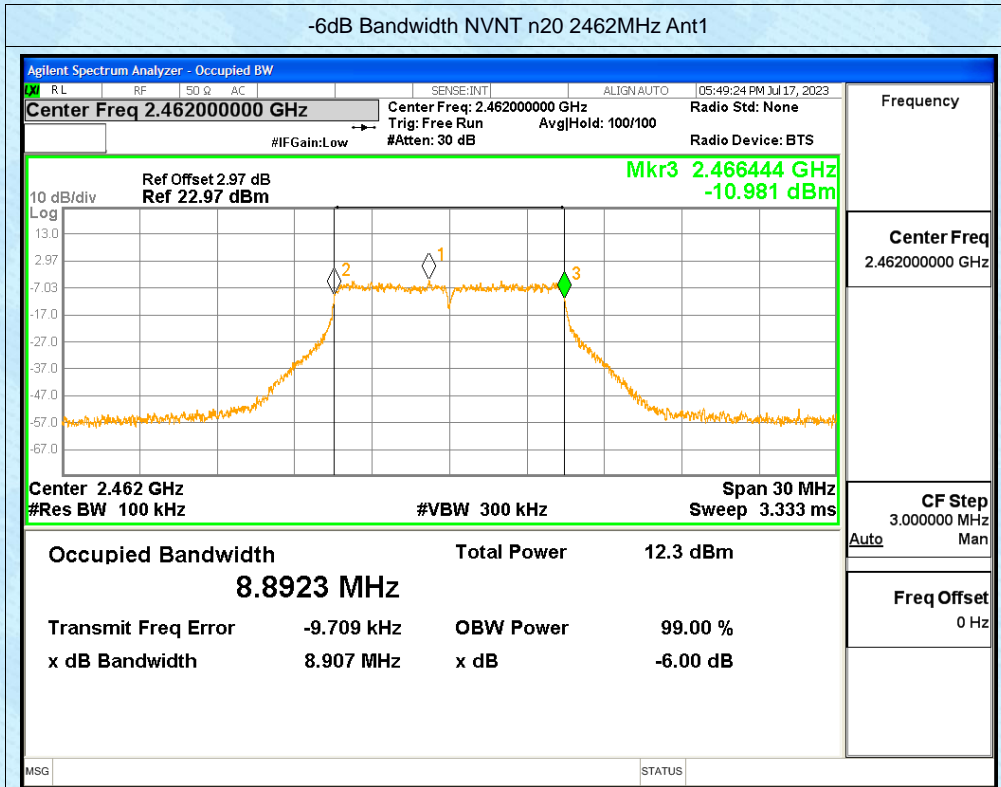




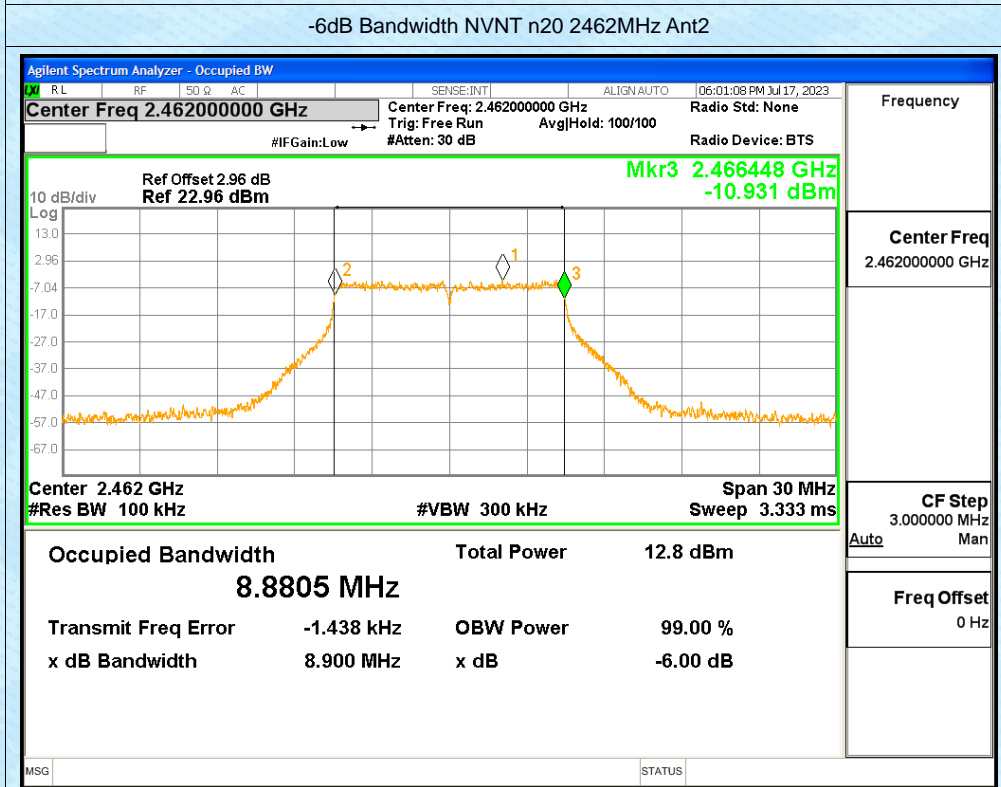
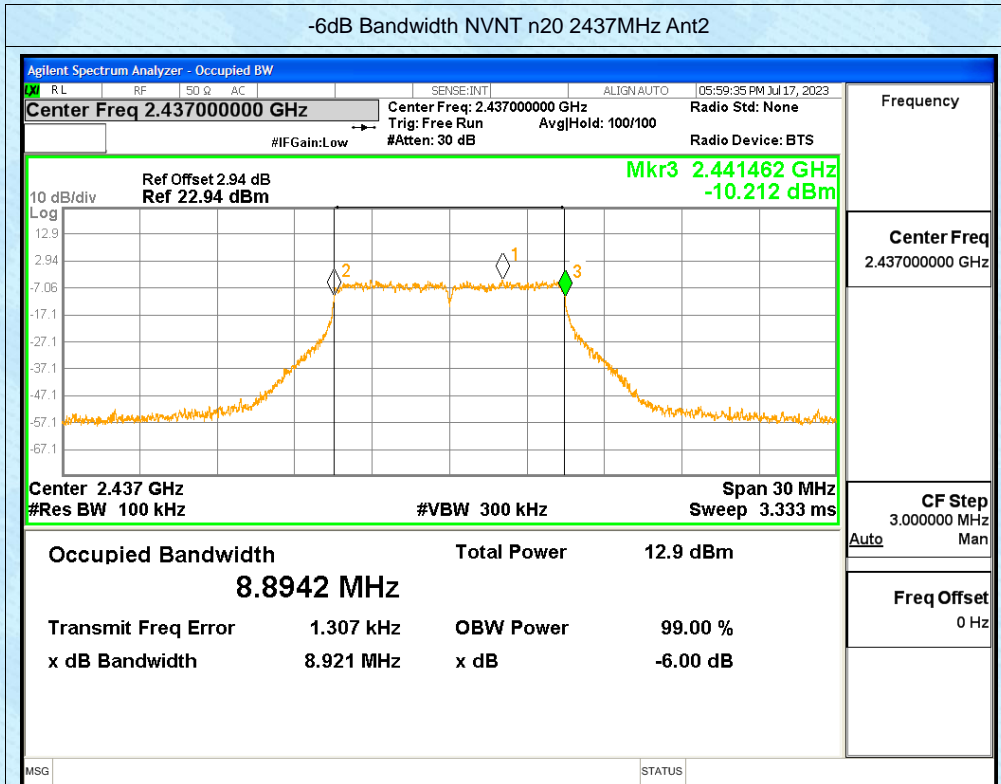


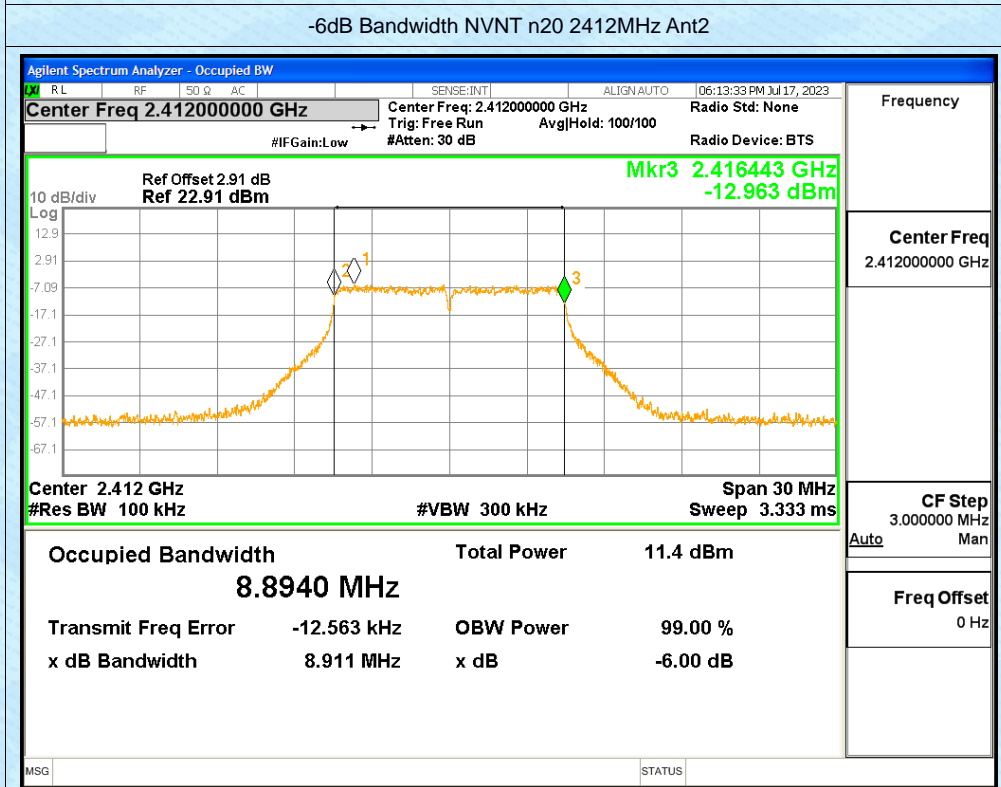
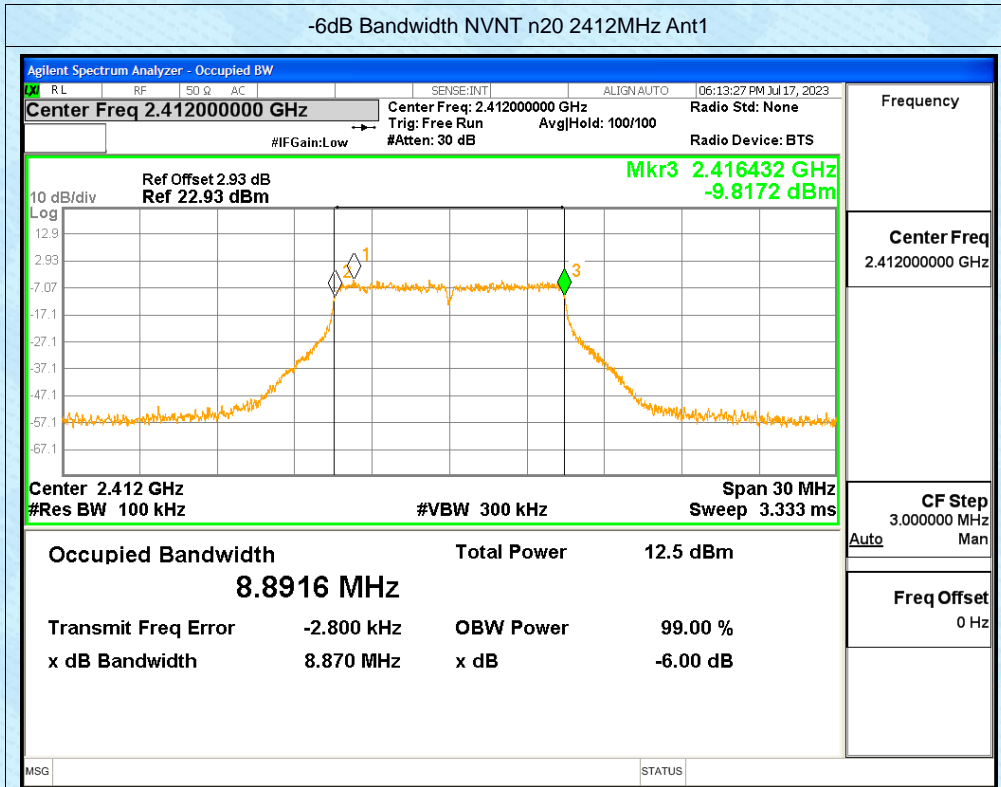


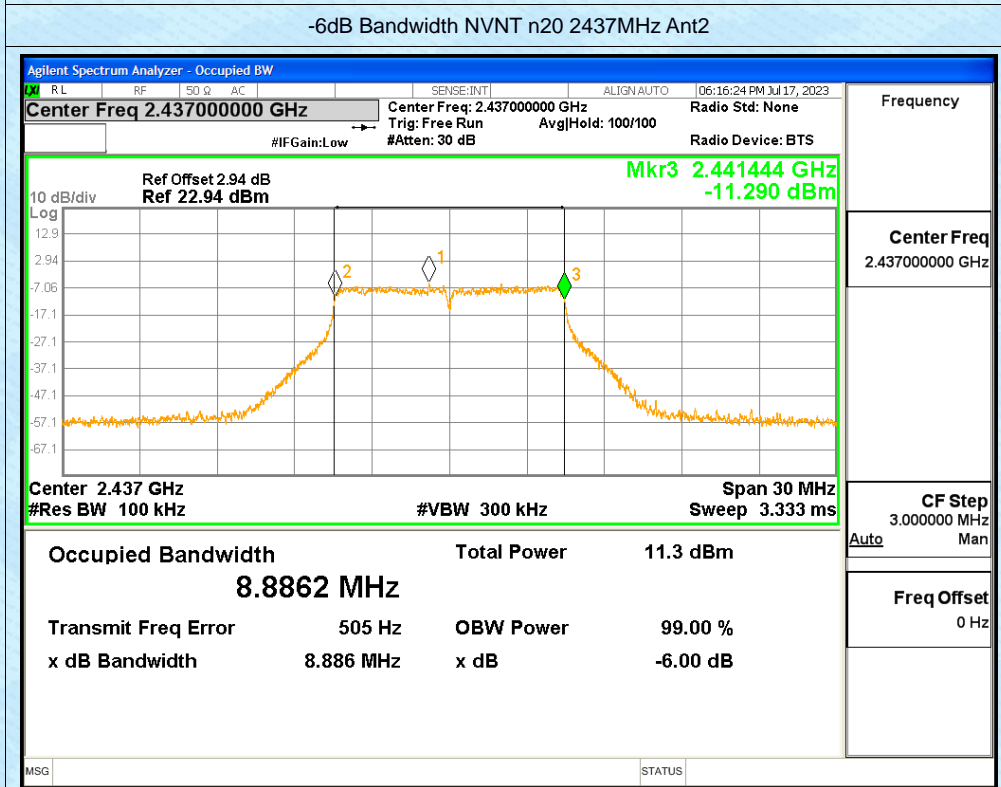
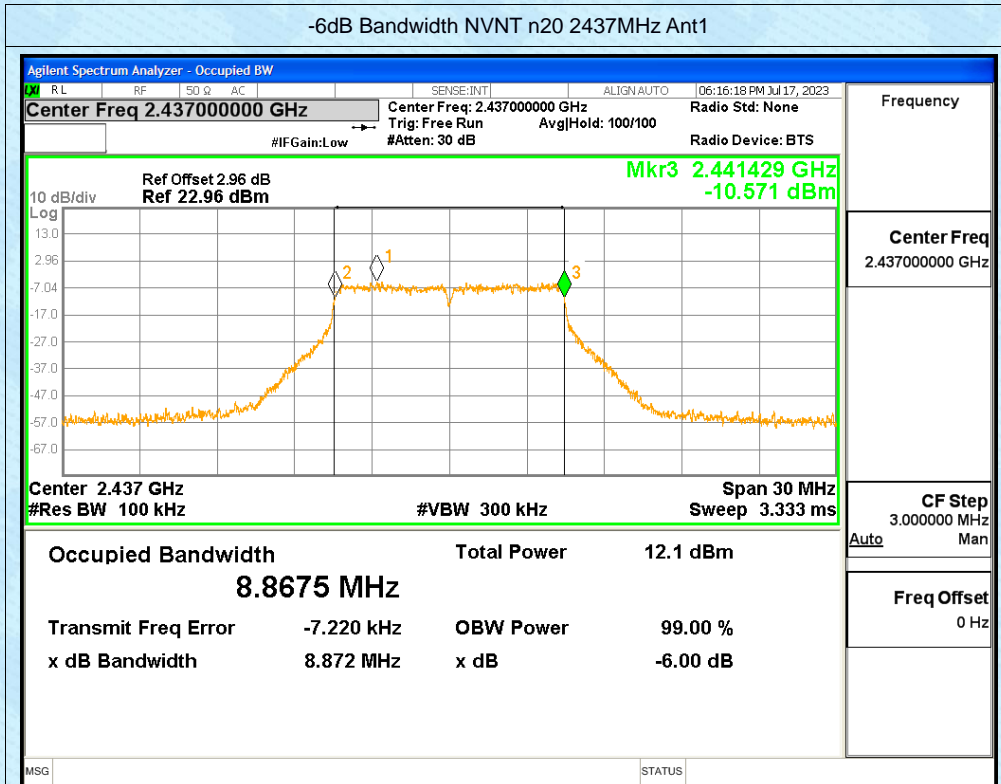


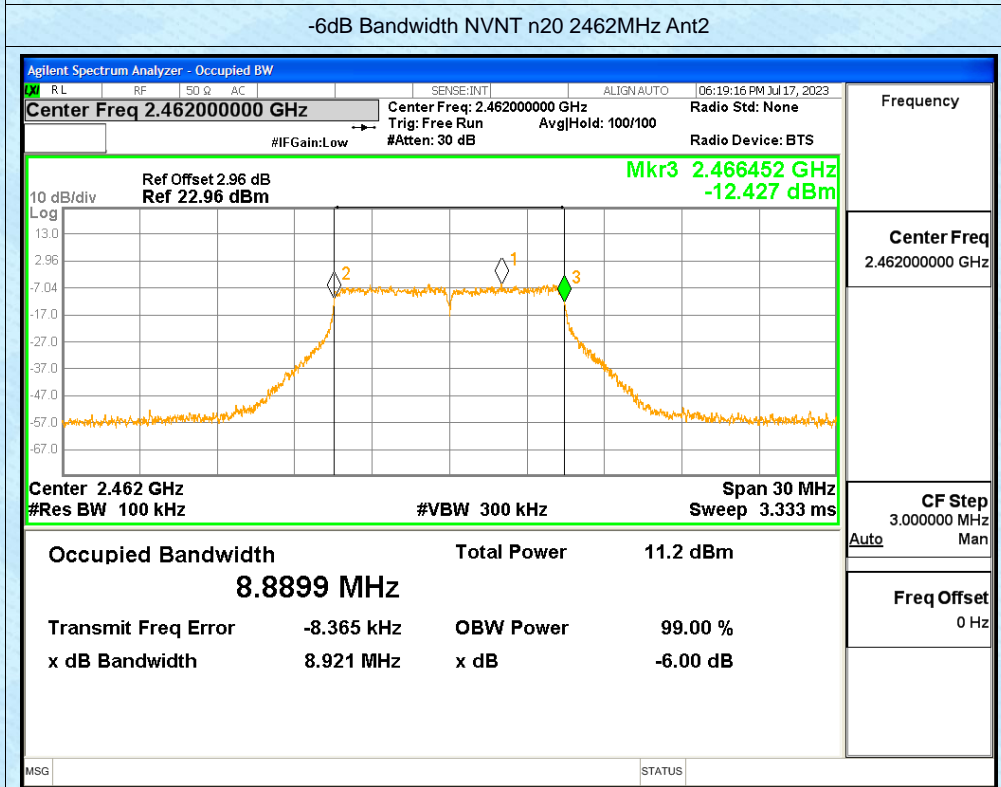
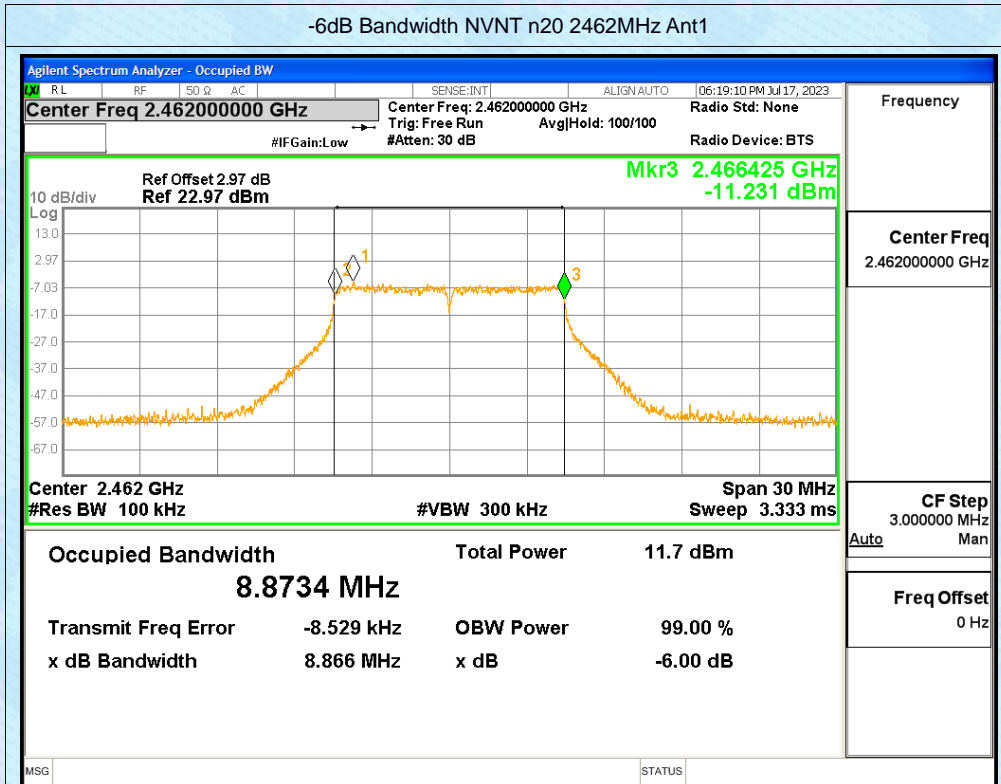








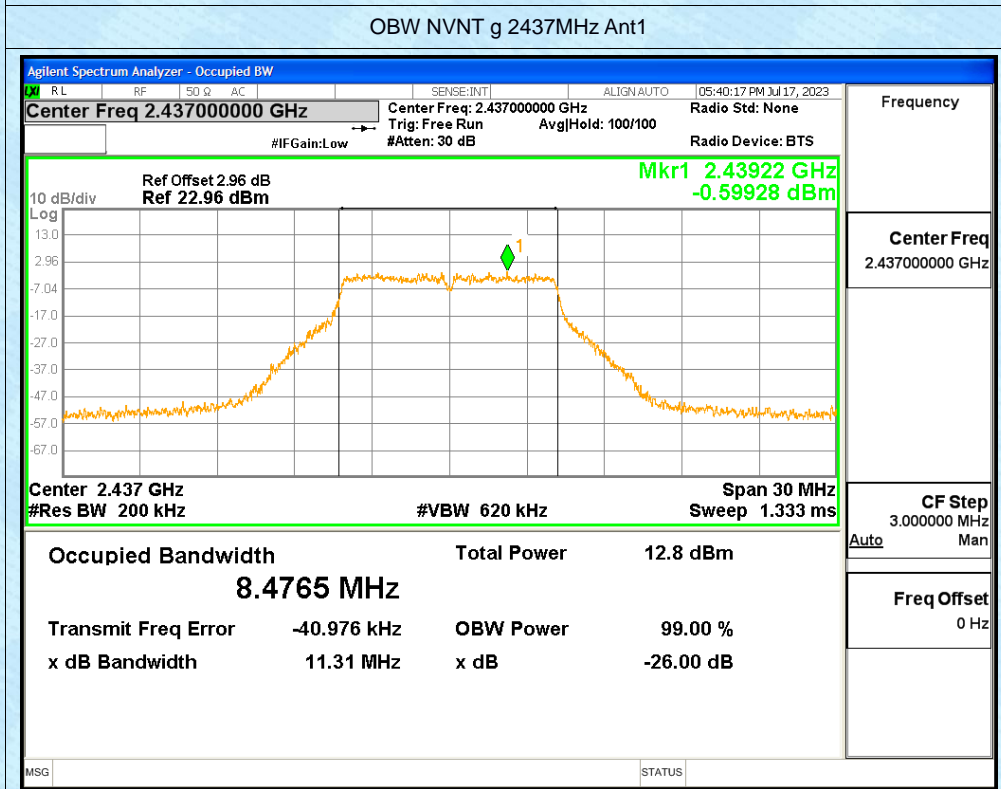
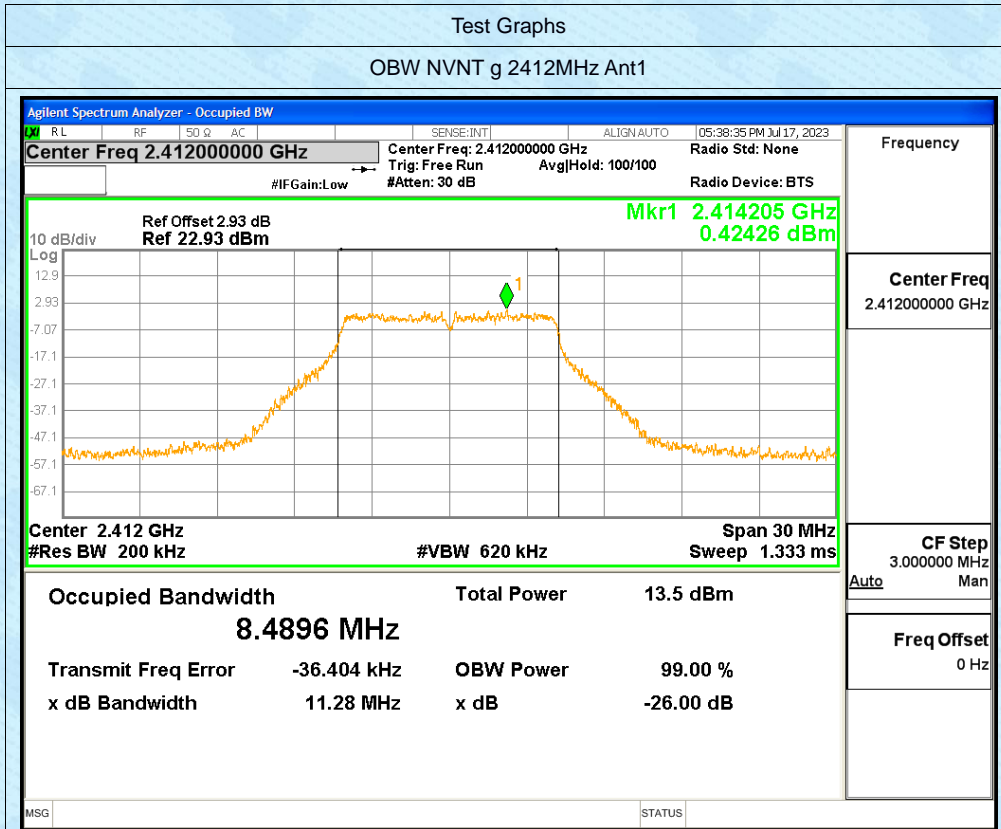


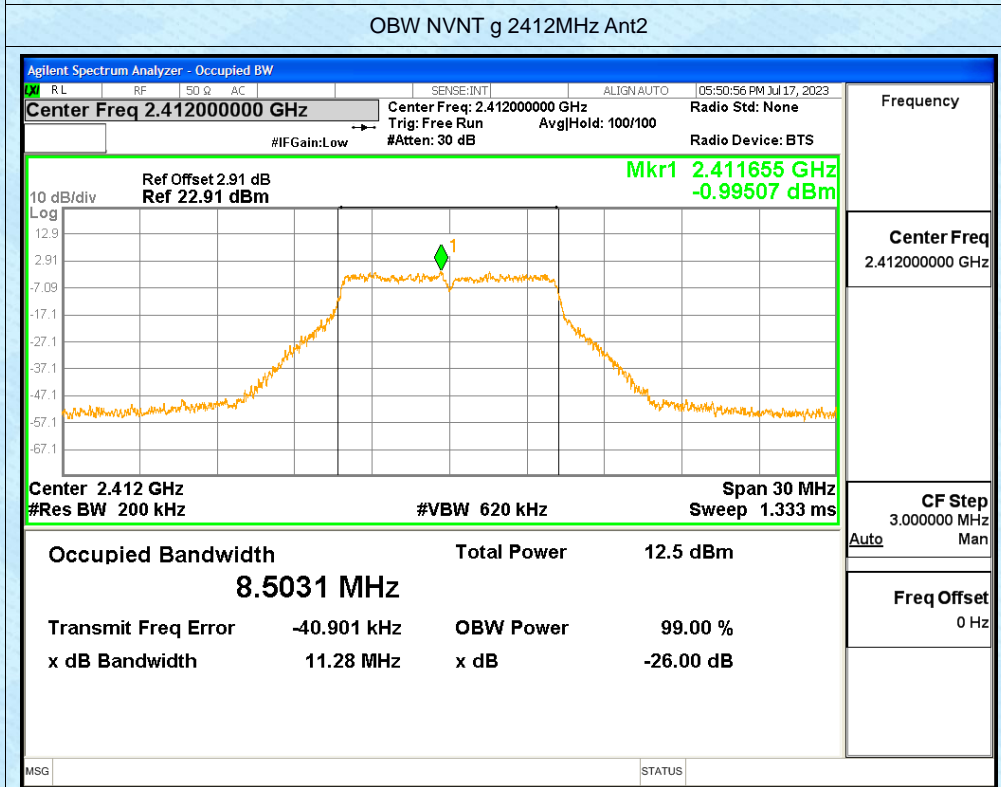
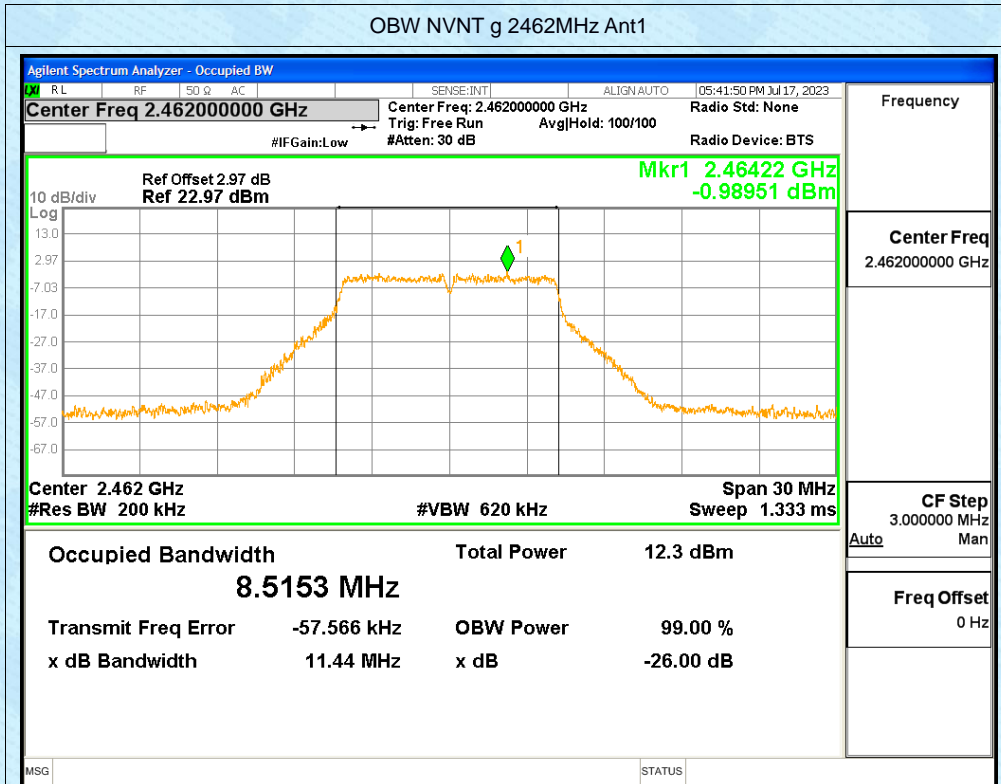


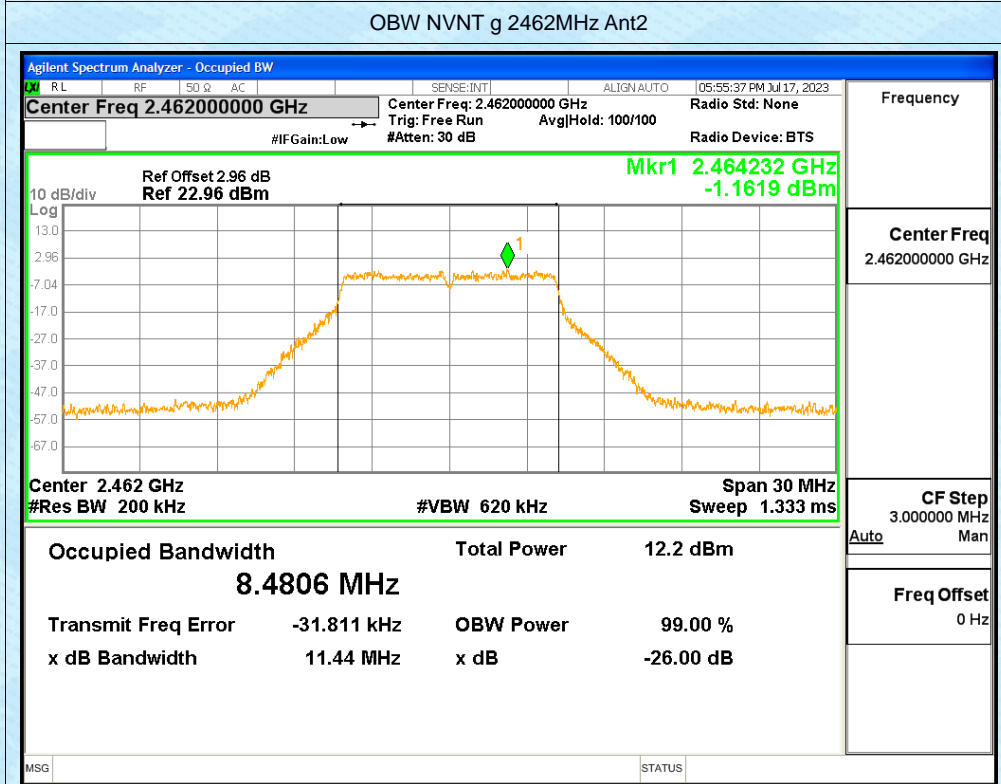
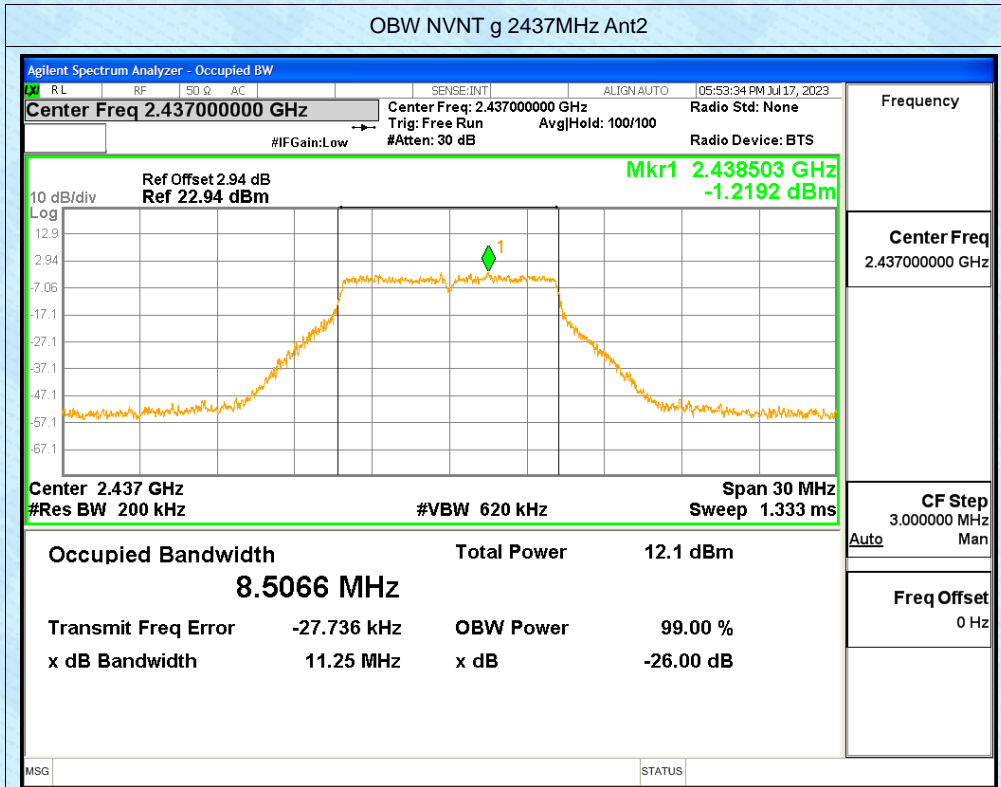


## Occupied Channel Bandwidth

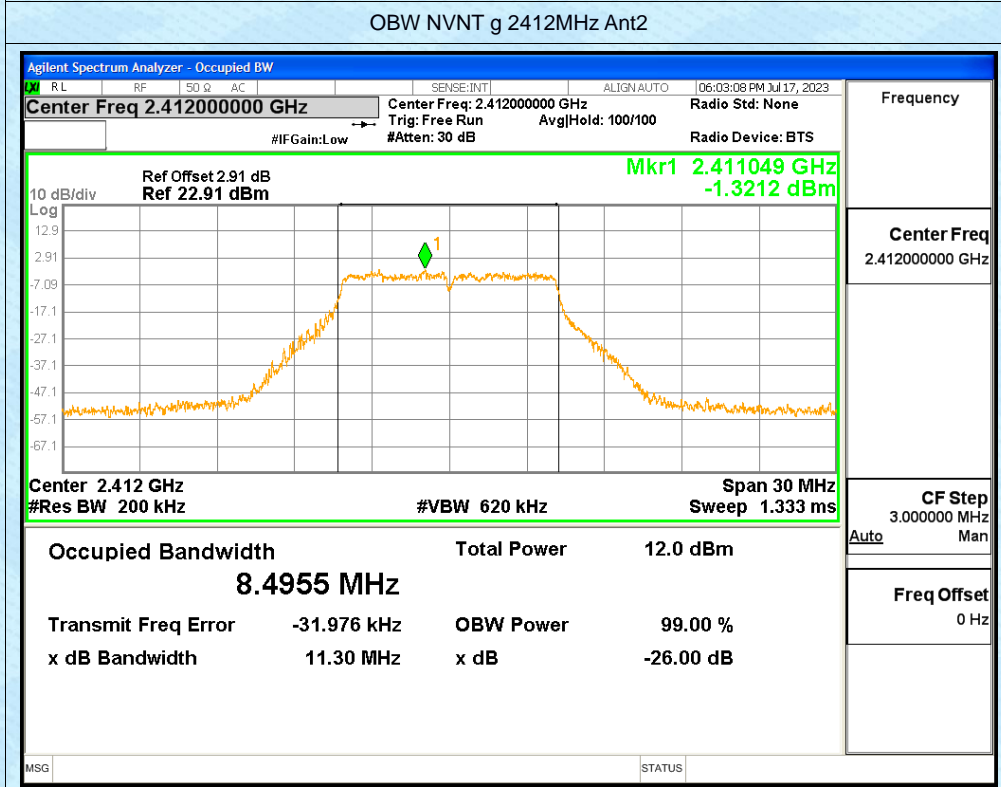
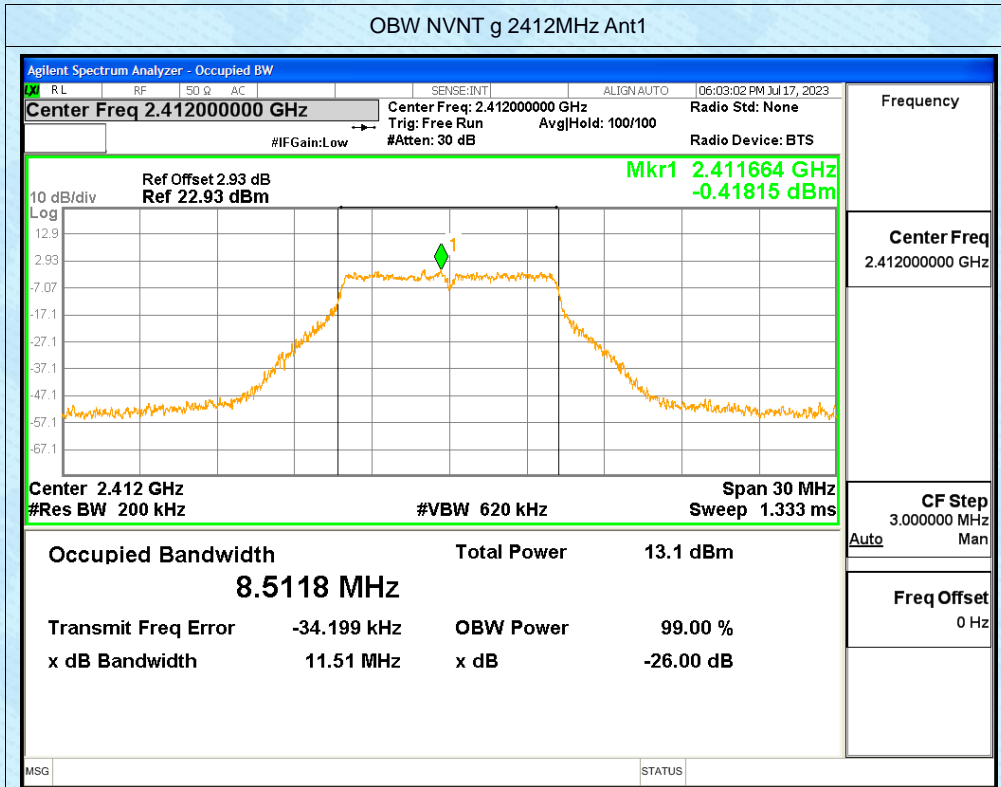
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	g	2412	Ant1	8.49
		2437		8.477
		2462		8.515
		2412	Ant2	8.503
		2437		8.507
		2462		8.481
		2412	Ant1	8.512
			Ant2	8.496
		2437	Ant1	8.484
			Ant2	8.486
		2462	Ant1	8.517
			Ant2	8.489
	n20	2412	Ant1	9.013
		2437		9.016
		2462		9.025
		2412	Ant2	8.997
		2437		9.026
		2462		9.005
		2412	Ant1	9.003
			Ant2	9.021
		2437	Ant1	9.044
			Ant2	9.028
		2462	Ant1	9.023
			Ant2	9.015

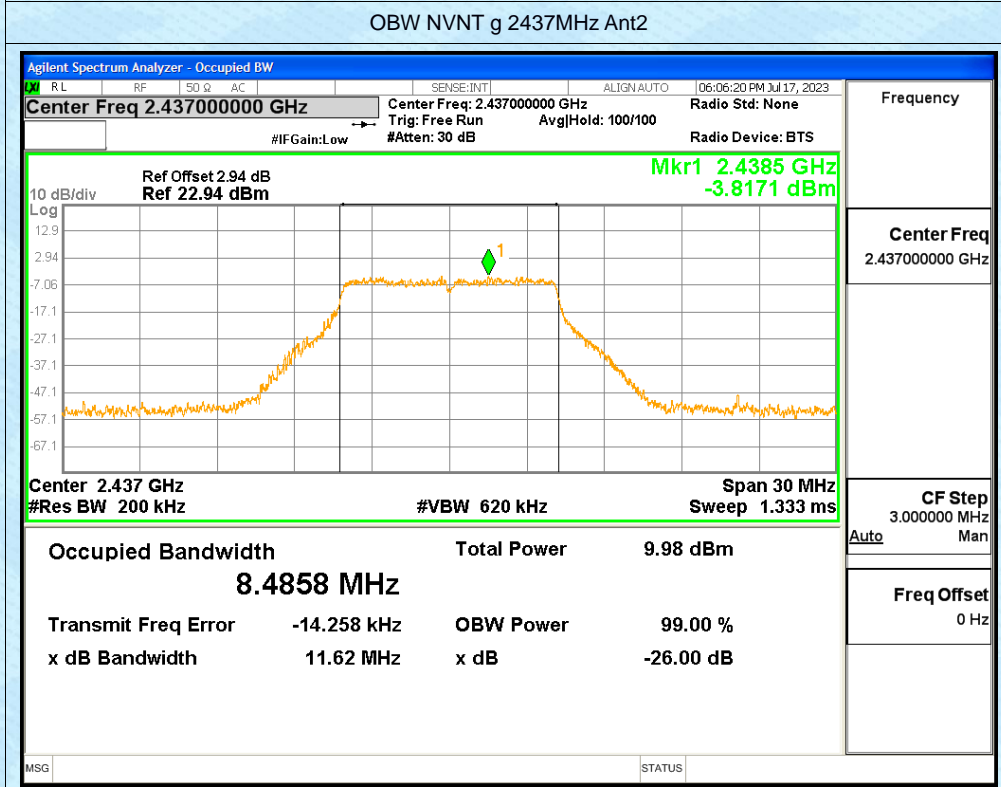
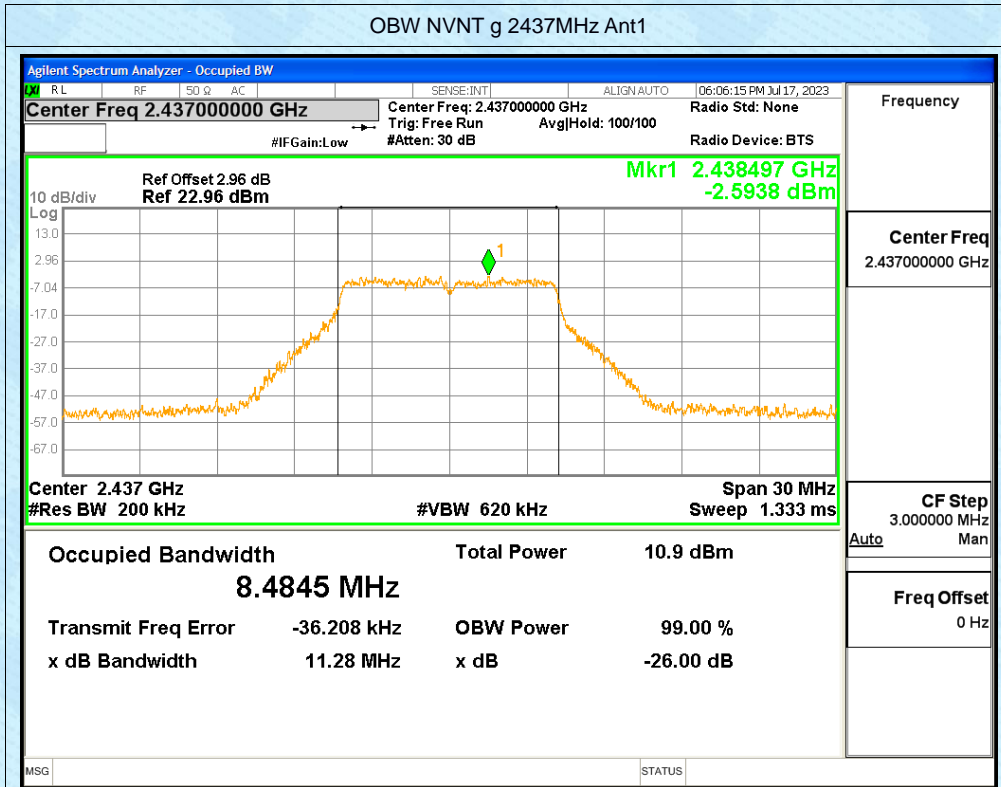


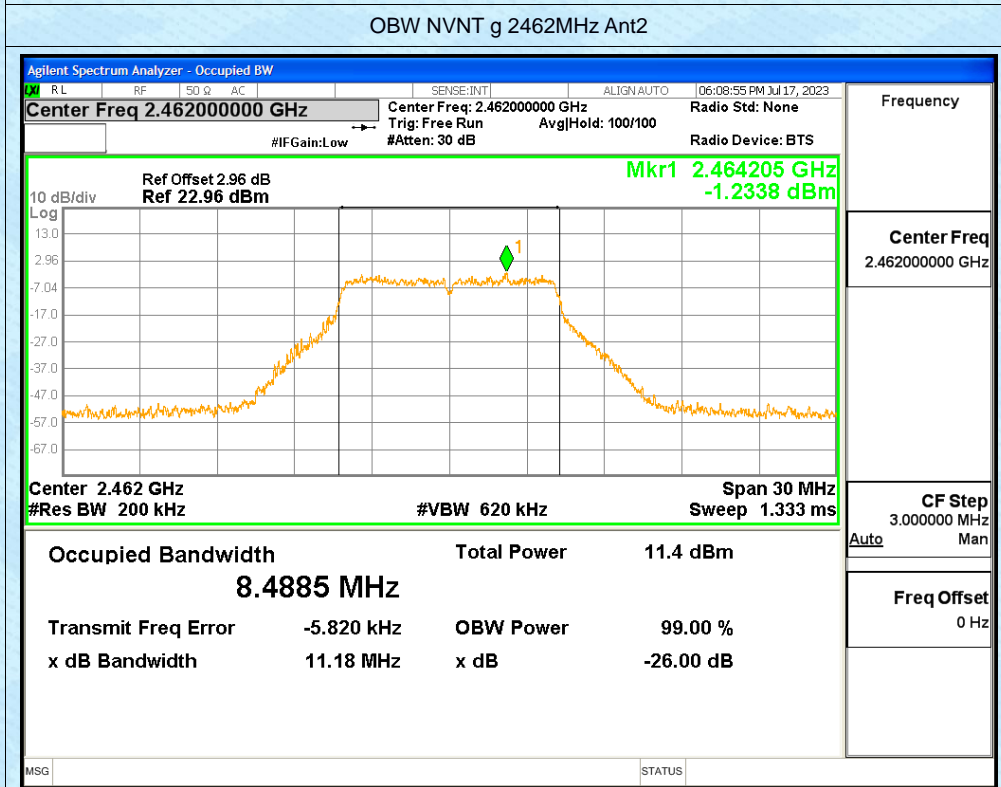
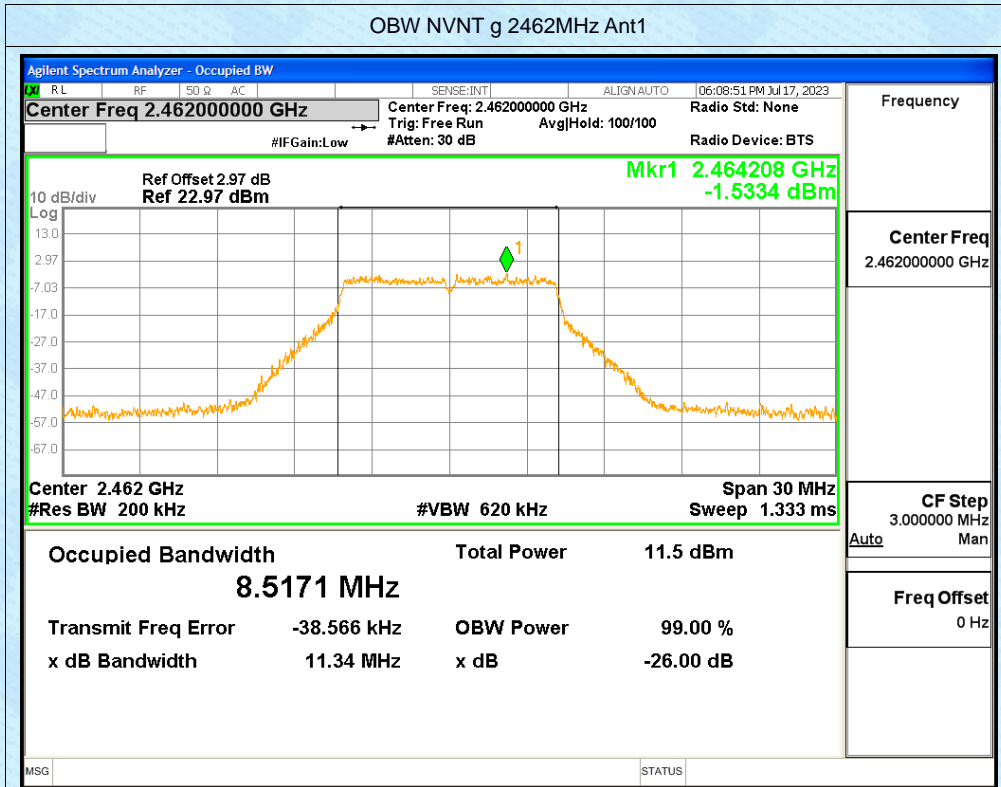


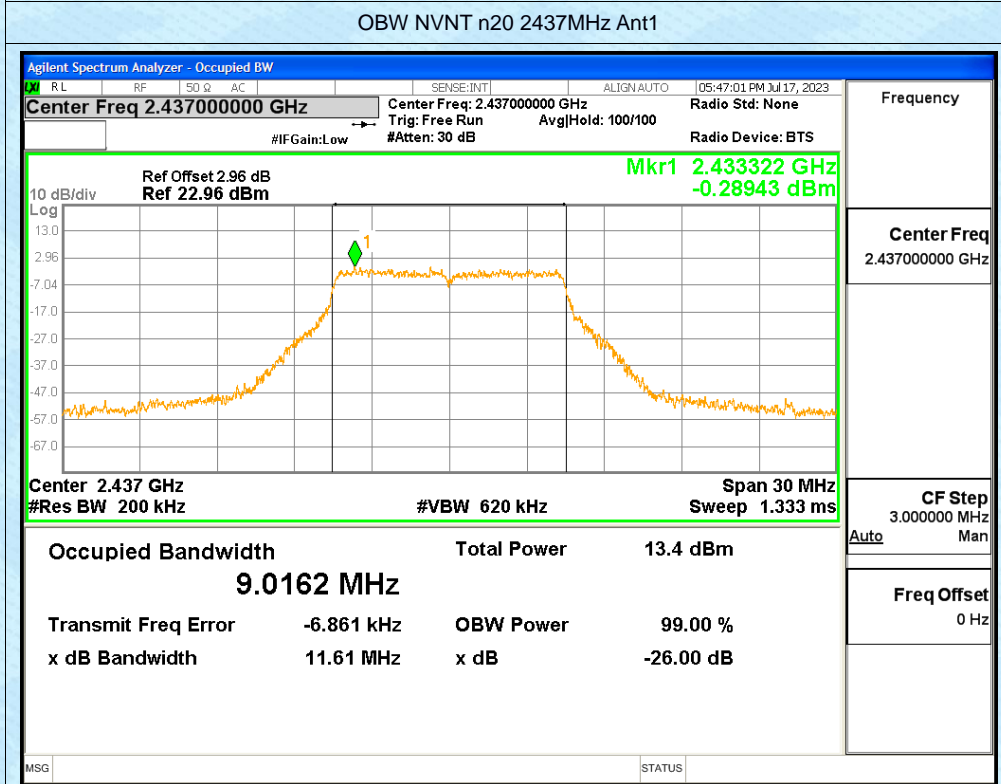
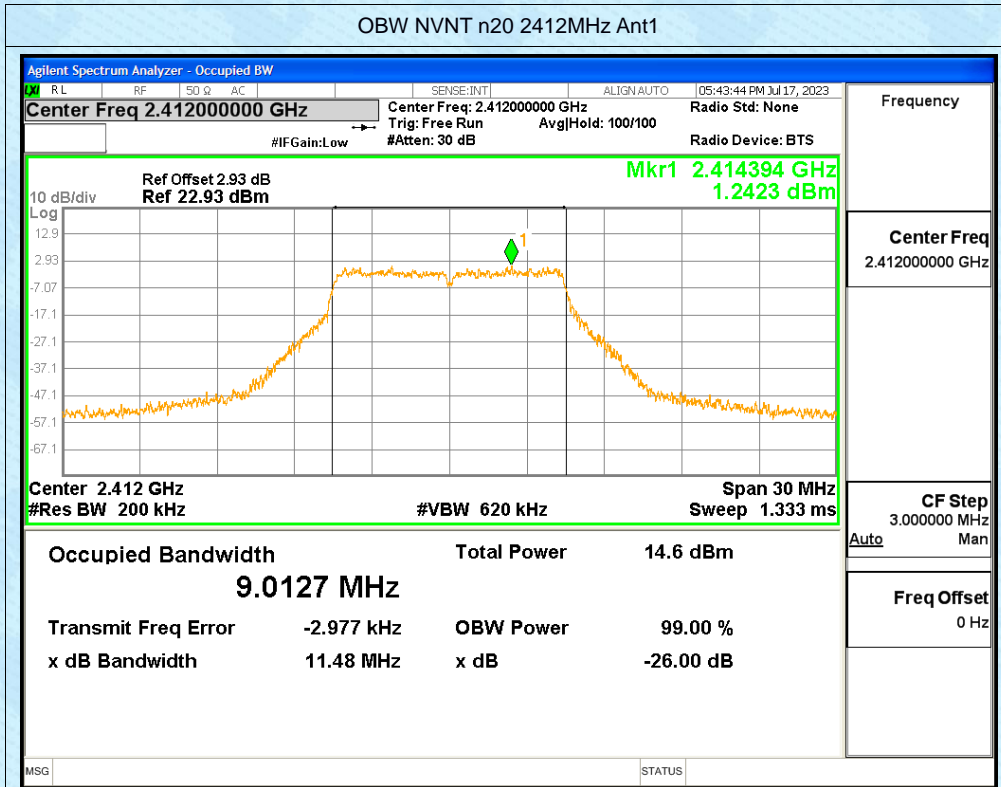




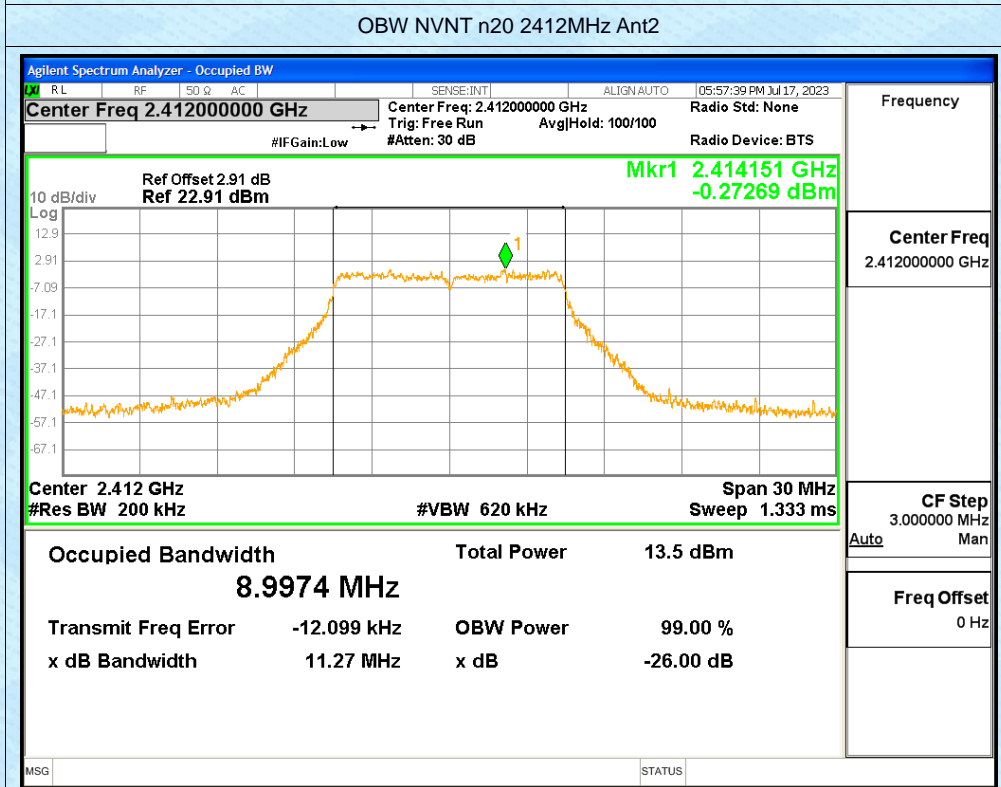
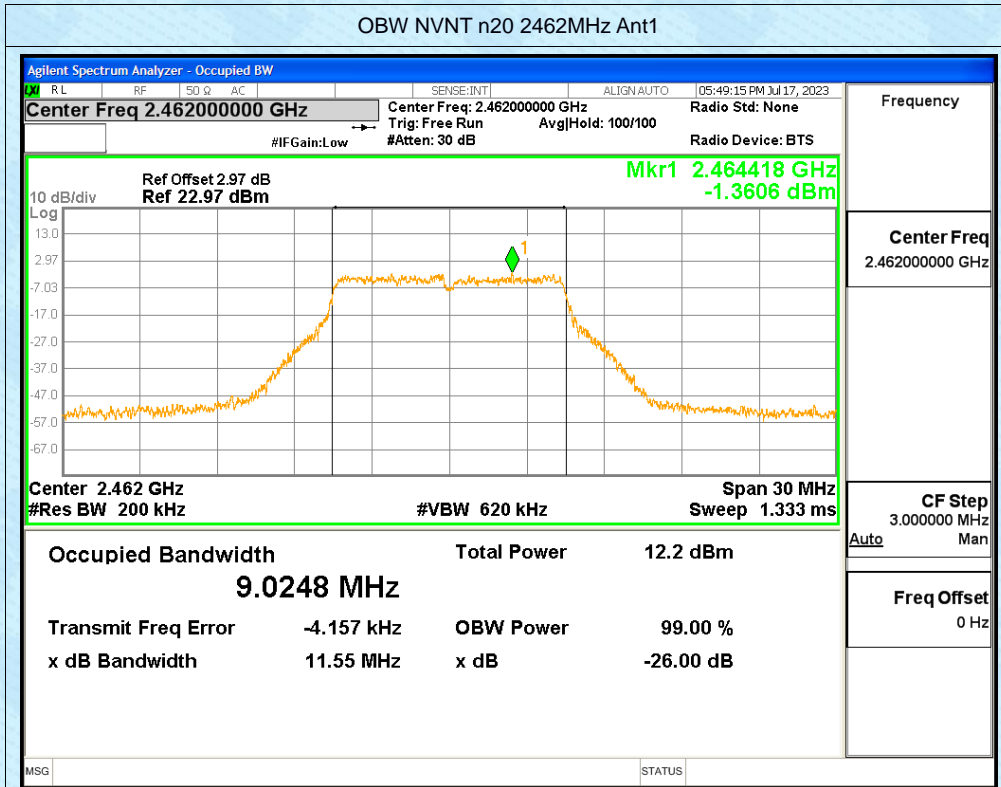


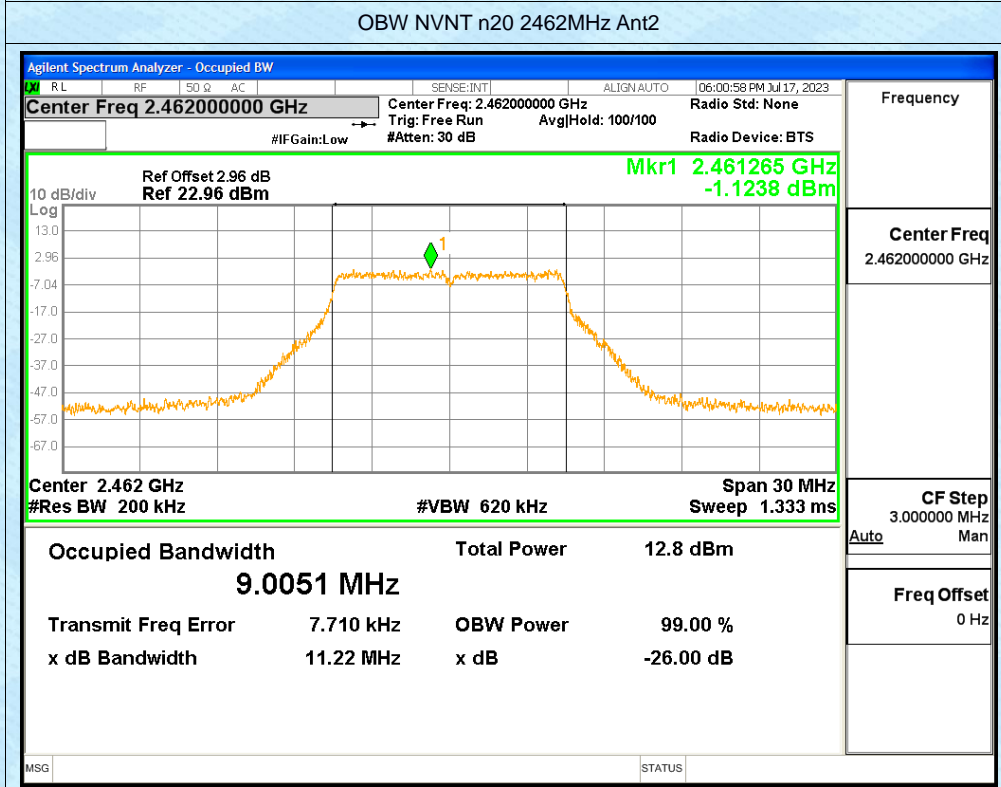
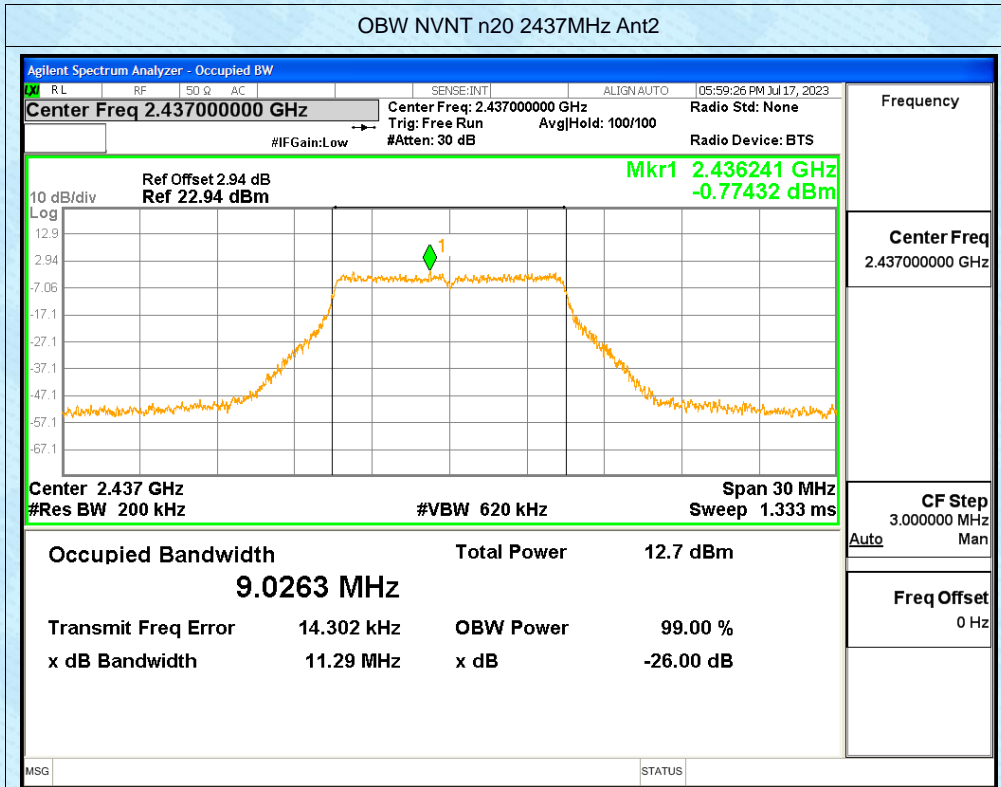


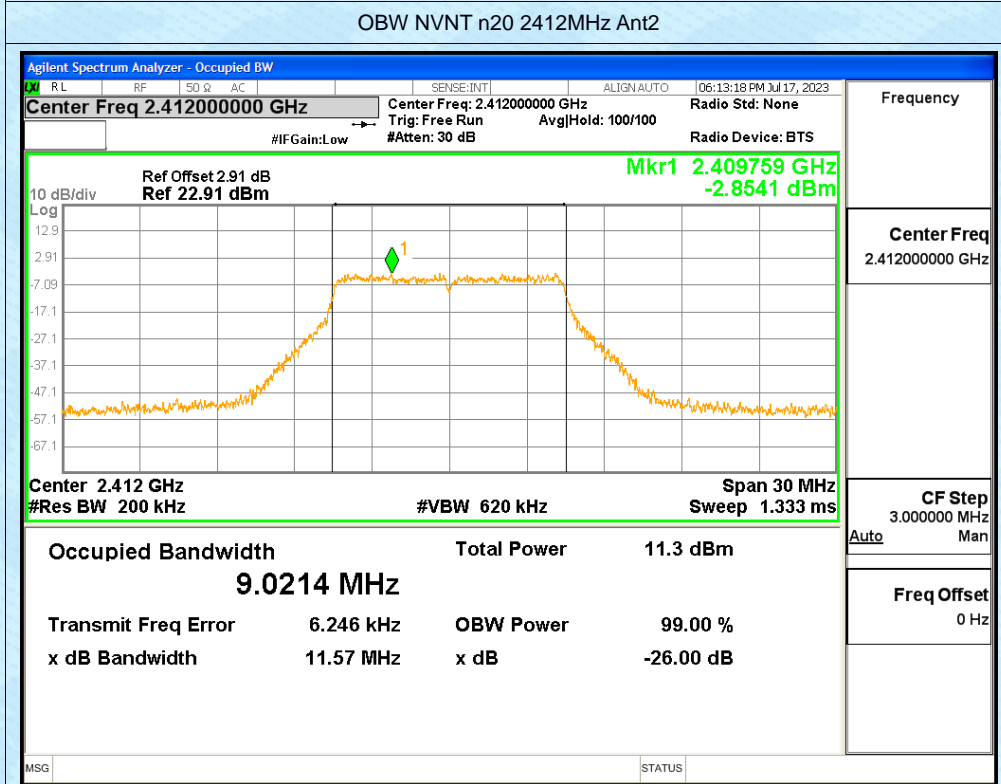
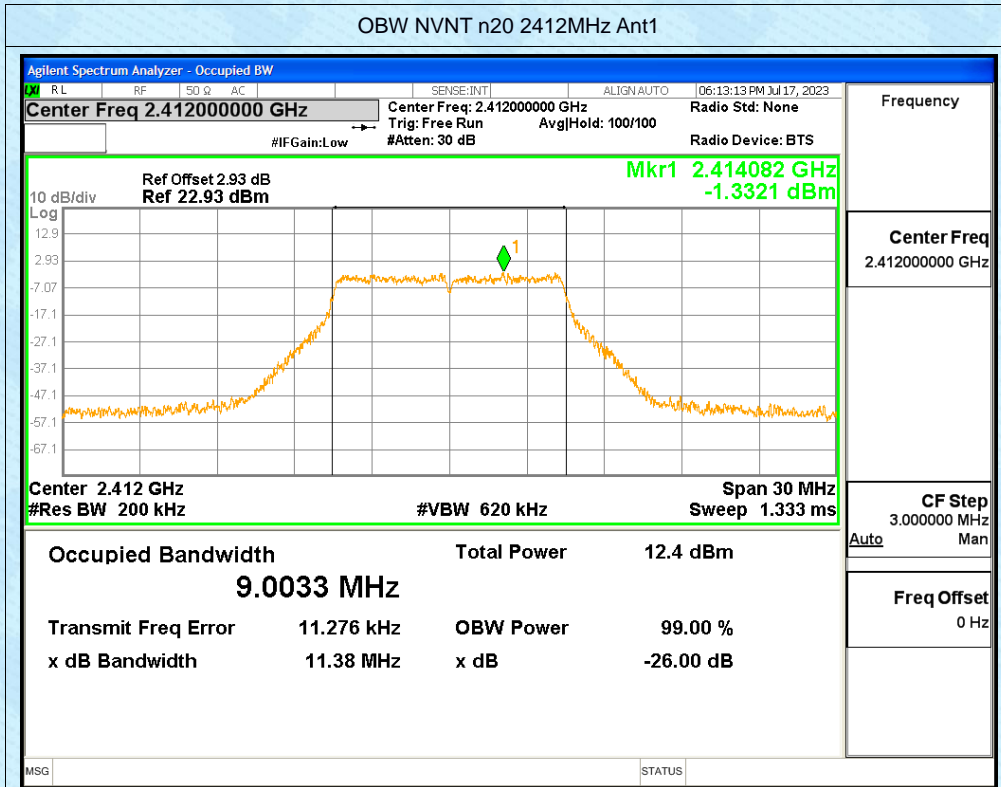


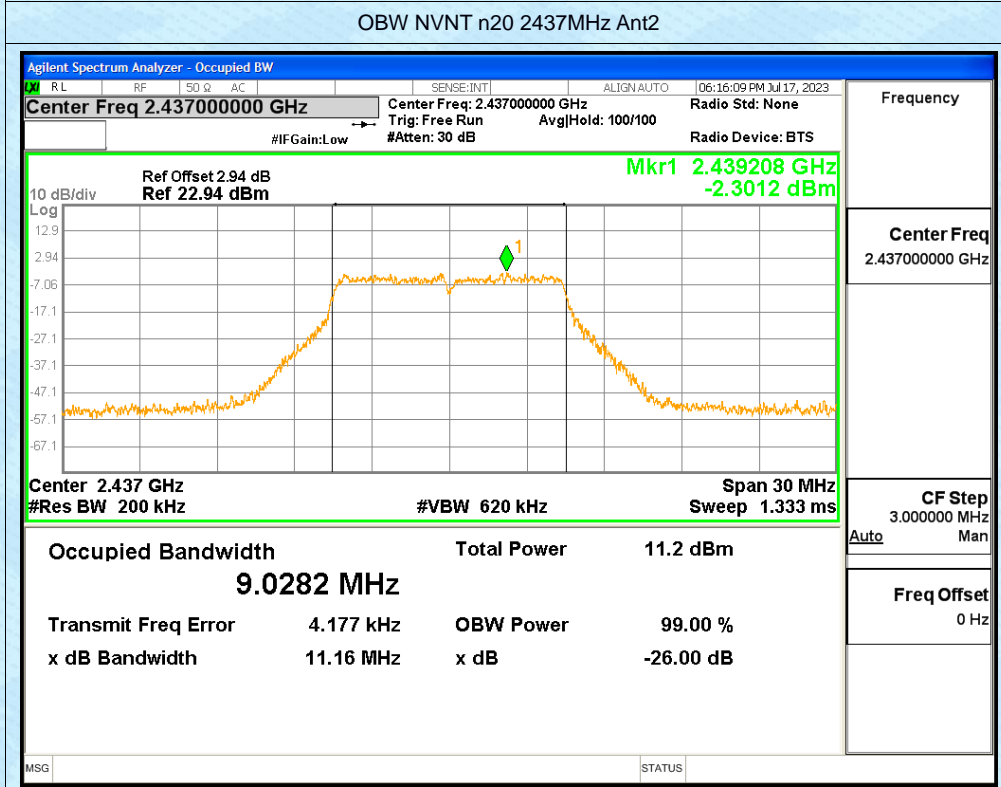
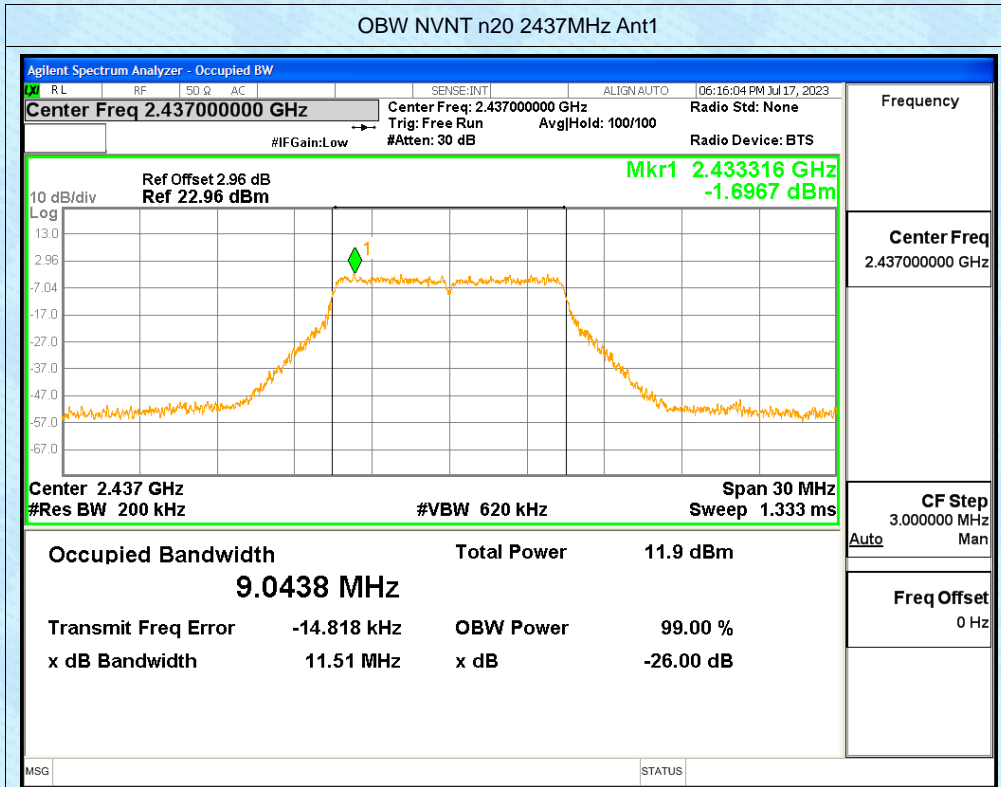




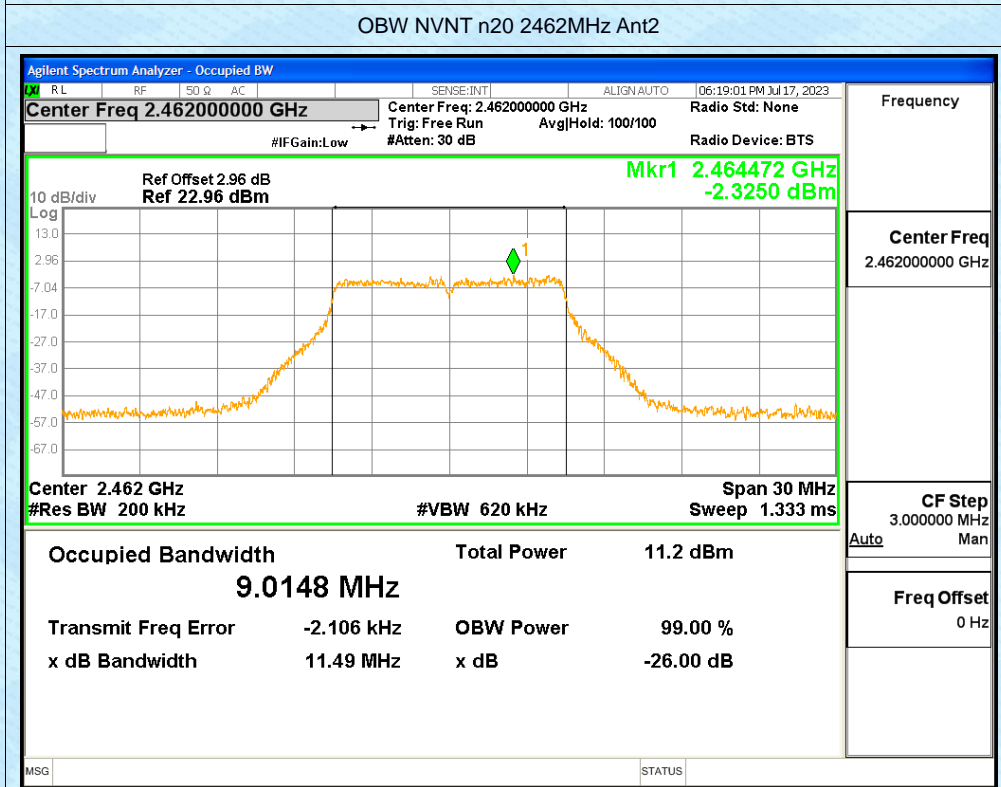
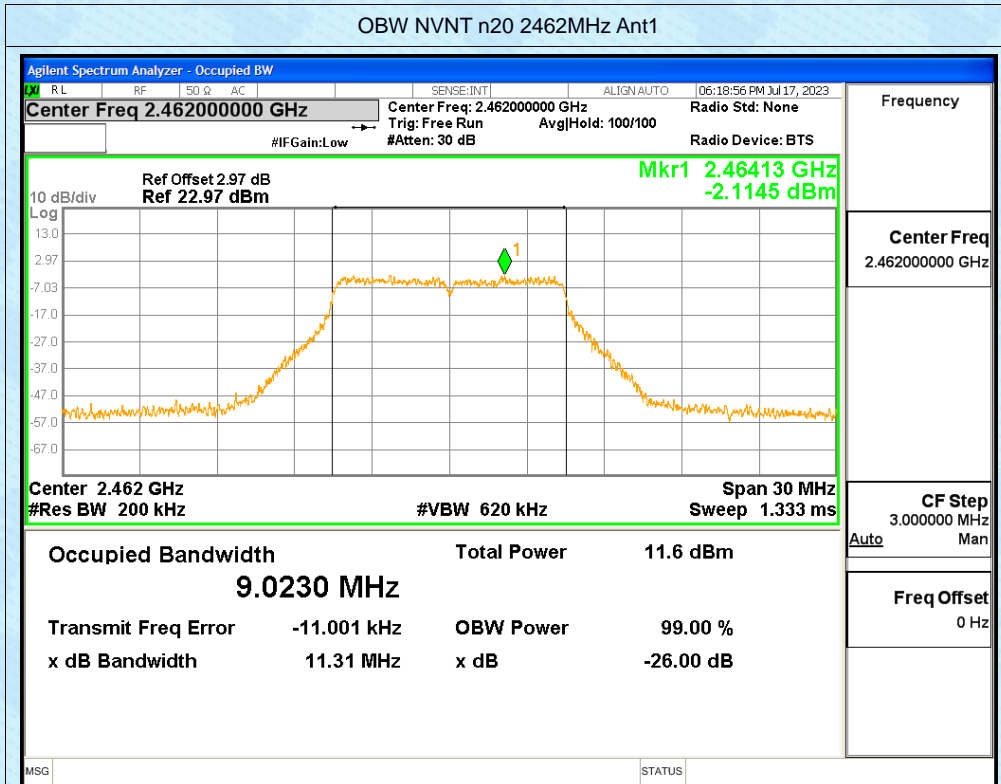












## Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict	
NVNT	g	2412	Ant1	-2.65	0	-2.65	8	Pass	
		2437		-3.39	0	-3.39	8	Pass	
		2462		-4.06	0	-4.06	8	Pass	
		2412	Ant2	-3.9	0	-3.9	8	Pass	
		2437		-4.64	0	-4.64	8	Pass	
		2462		-4.17	0	-4.17	8	Pass	
		2412	Ant1	-3.52	0	-3.52	8	Pass	
			Ant2	-4.2	0	-4.2	8	Pass	
		2437	Sum	-0.84	0	-0.84	8	Pass	
			Ant1	-5.31	0	-5.31	8	Pass	
			Ant2	-6.08	0	-6.08	8	Pass	
		2462	Sum	-2.67	0	-2.67	8	Pass	
			Ant1	-4.73	0	-4.73	8	Pass	
			Ant2	-4.68	0	-4.68	8	Pass	
		n20	2412	Ant1	-2.05	0	-2.05	8	Pass
				Ant2	-2.64	0	-2.64	8	Pass
				Sum	-3.97	0	-3.97	8	Pass
			2437	Ant1	-3.09	0	-3.09	8	Pass
	Ant2			-3.54	0	-3.54	8	Pass	
	Sum			-3.84	0	-3.84	8	Pass	
	2462		Ant1	-3.81	0	-3.81	8	Pass	
			Ant2	-5.75	0	-5.75	8	Pass	
			Sum	-1.66	0	-1.66	8	Pass	
	2437		Ant1	-4.61	0	-4.61	8	Pass	
			Ant2	-5.18	0	-5.18	8	Pass	
			Sum	-1.88	0	-1.88	8	Pass	
	2462	Ant1	-5.24	0	-5.24	8	Pass		
		Ant2	-5.41	0	-5.41	8	Pass		
		Sum	-2.31	0	-2.31	8	Pass		

Directional gain=10 x log[(2/20+ 2/20)/2]=5.01dBi

