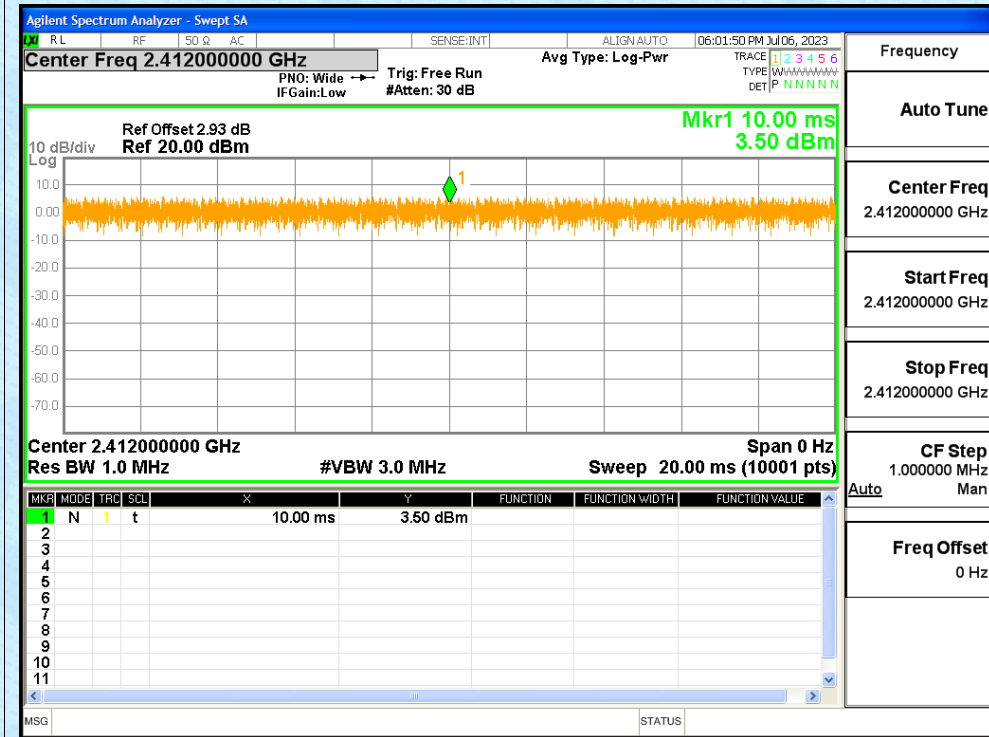


## Duty Cycle

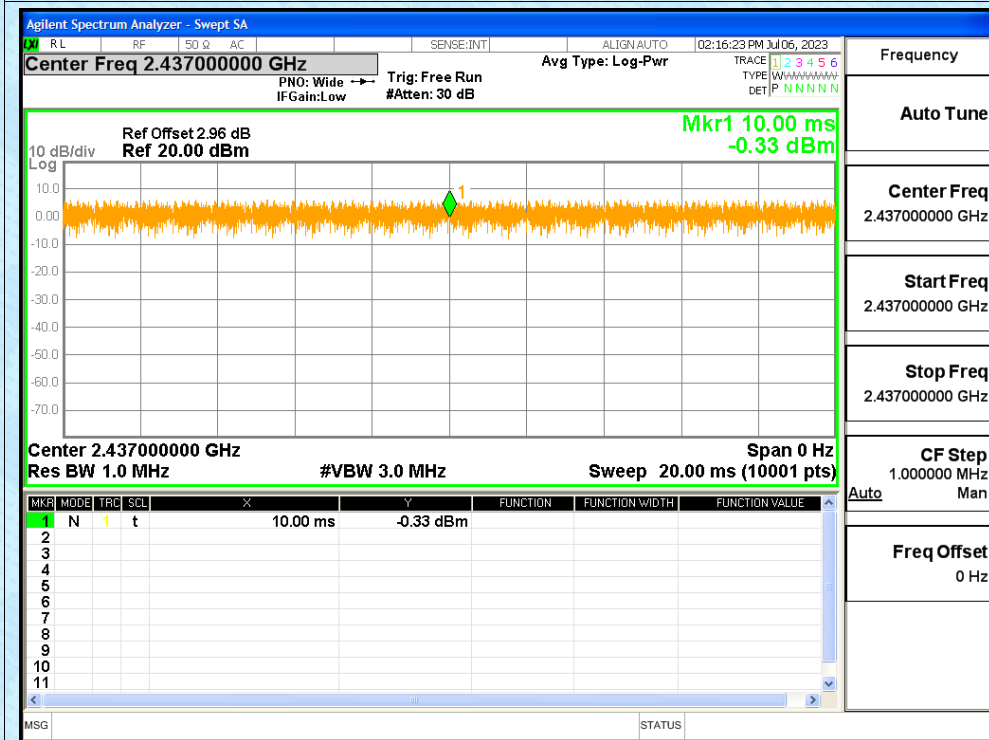
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	g	2412	Ant1	100	0	0
		2437		100	0	0
		2462		100	0	0
		2412	Ant2	100	0	0
		2437		100	0	0
		2462		100	0	0
		2412	Sum	100	0	0
		2437		100	0	0
		2462		100	0	0
	n20	Ant1	2412	100	0	0
			2437	100	0	0
			2462	100	0	0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

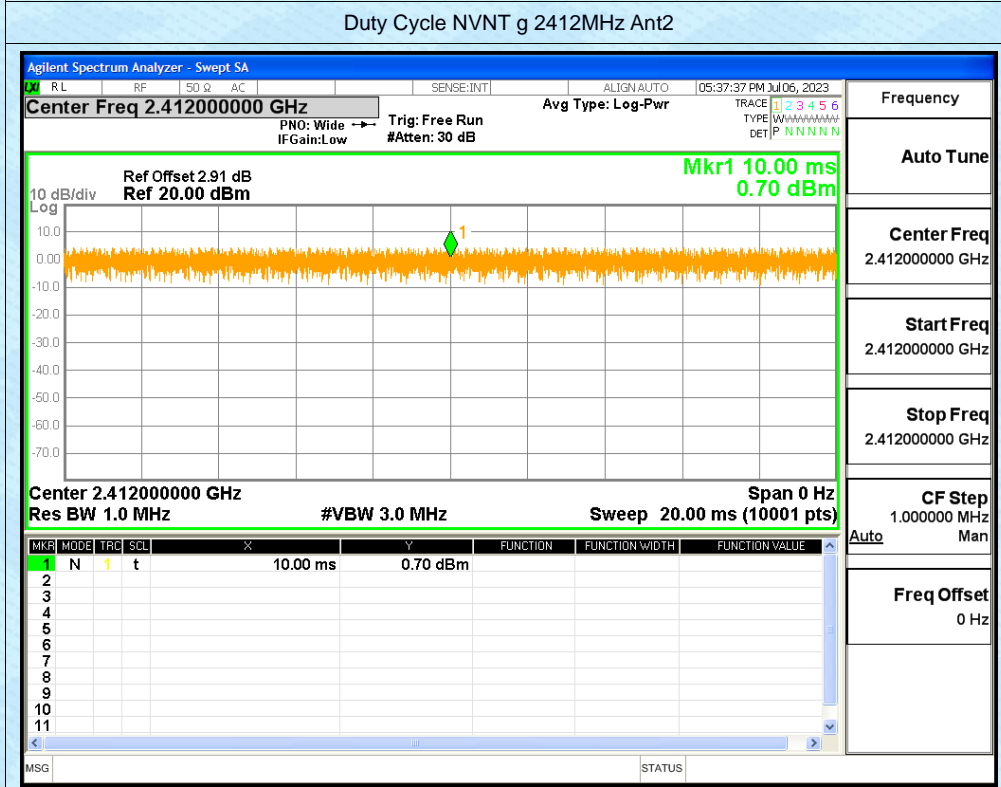
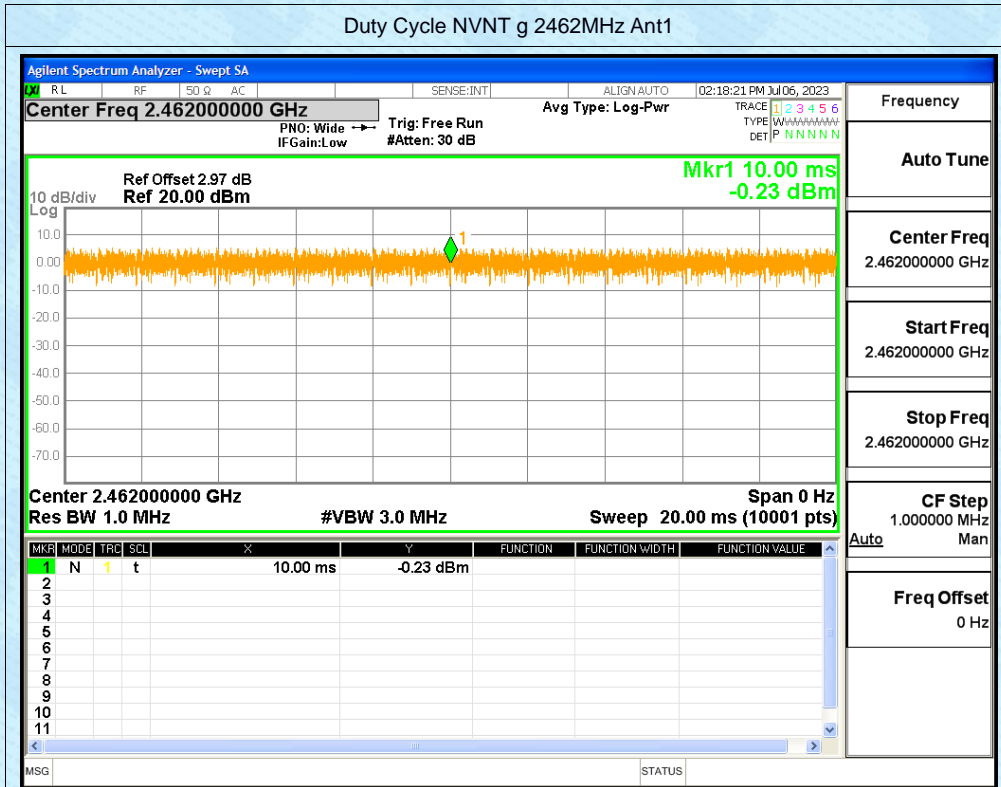
### Test Graphs

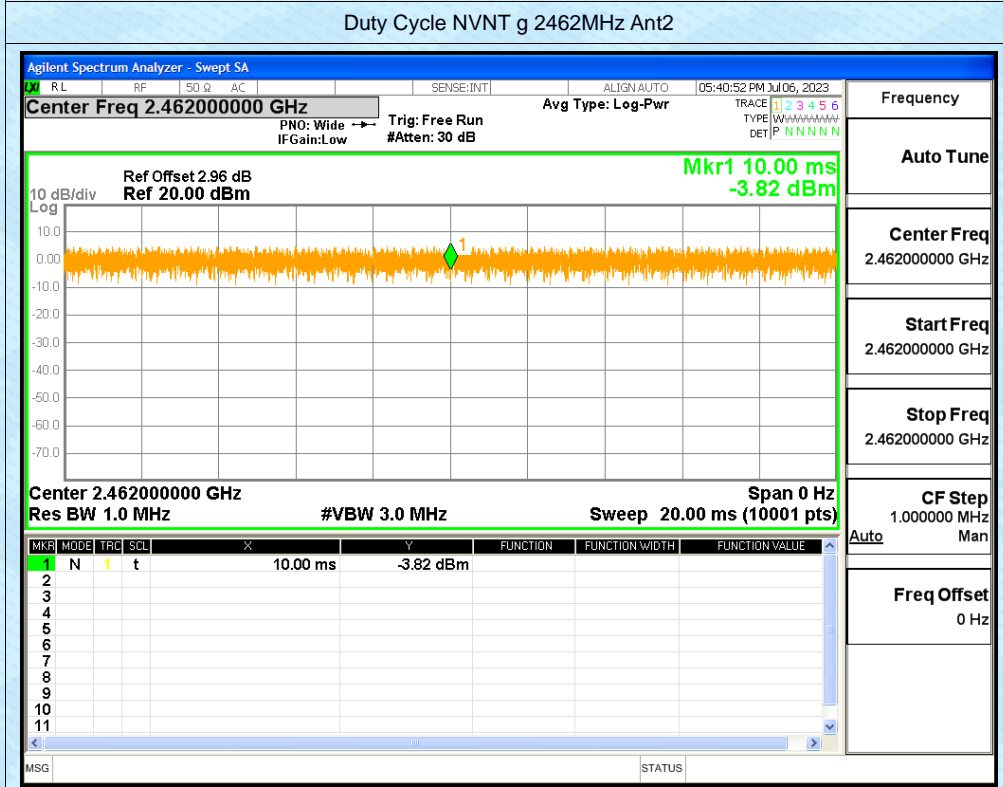
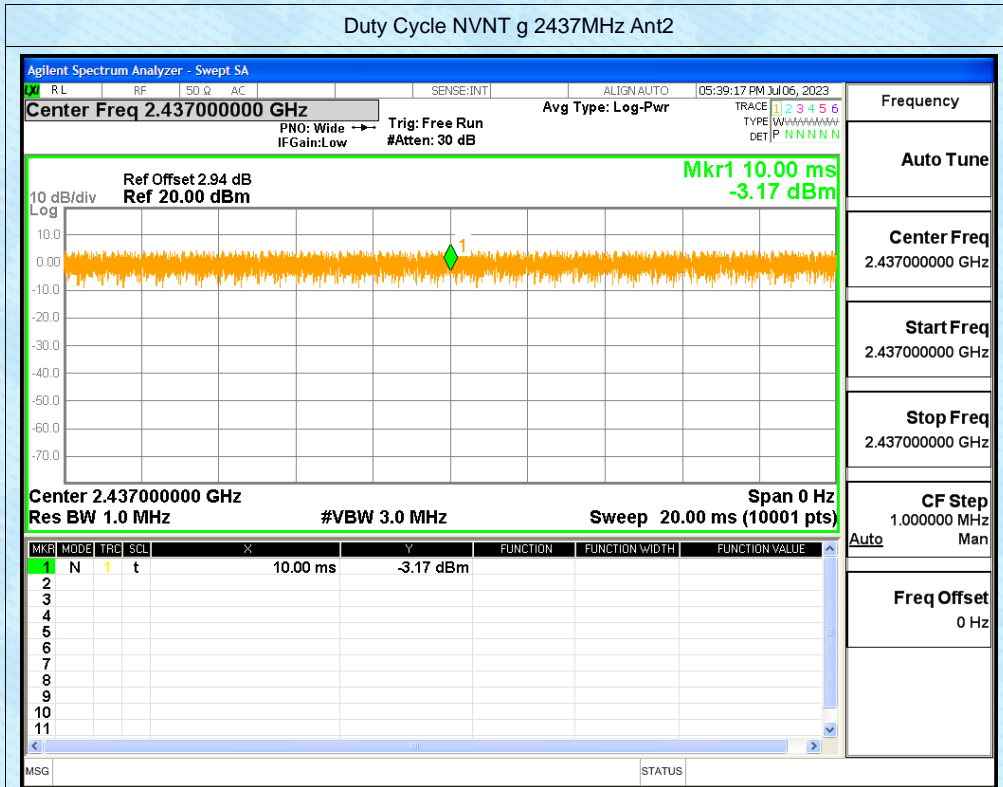
#### Duty Cycle NVNT g 2412MHz Ant1

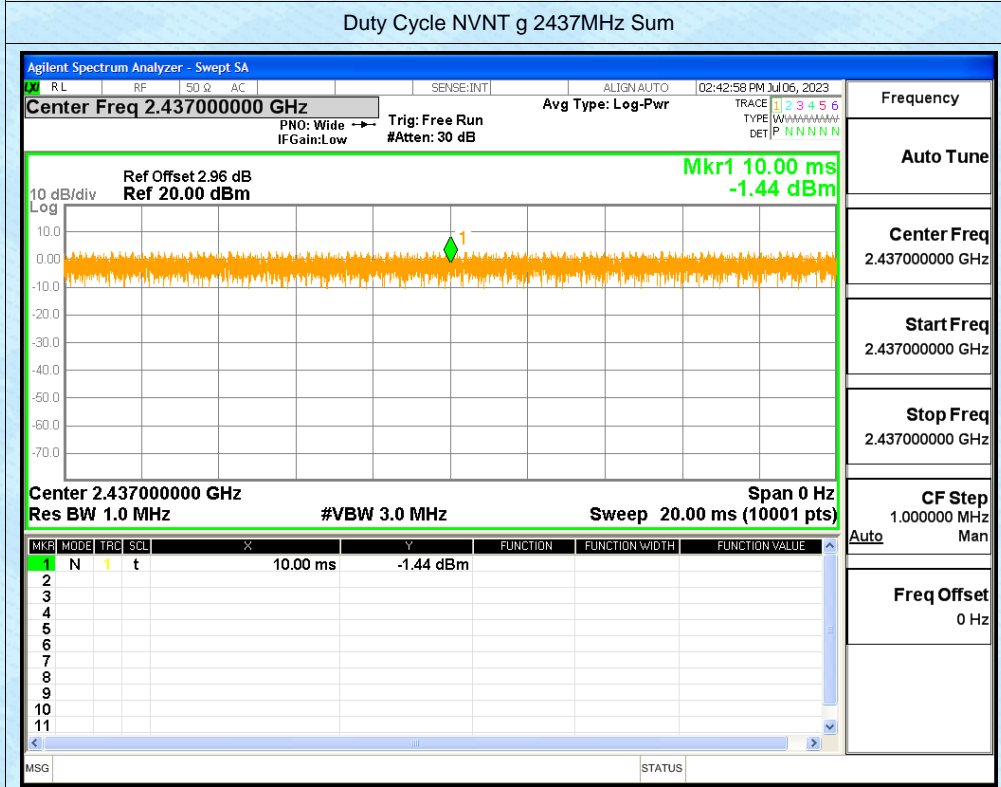
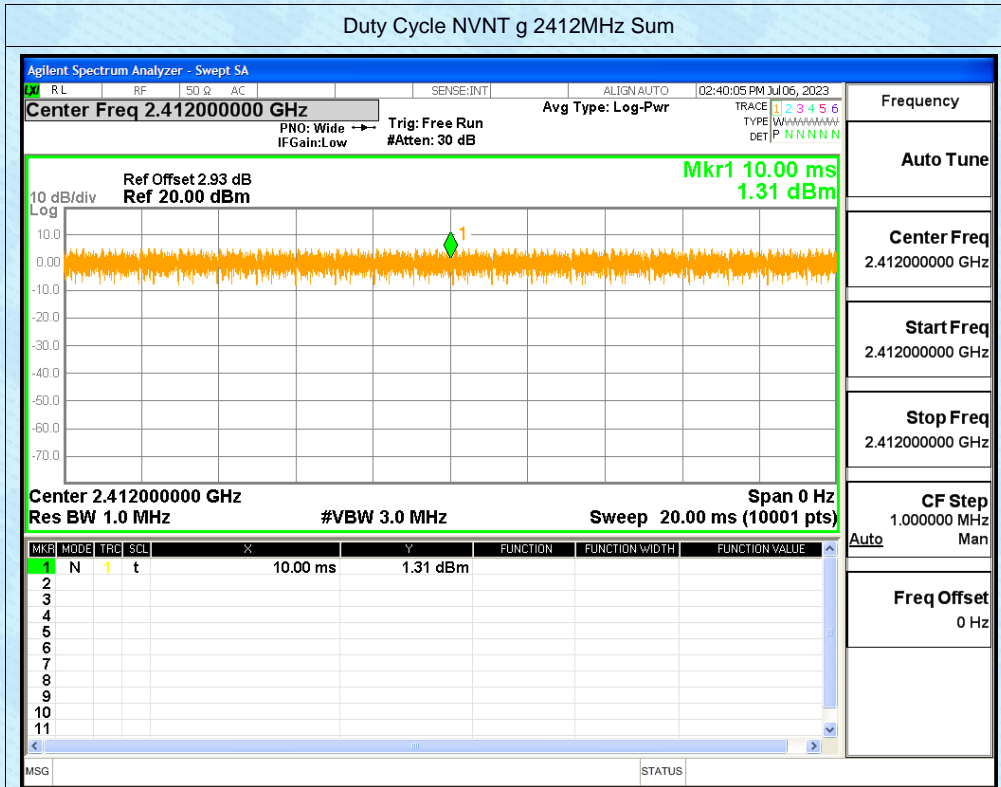


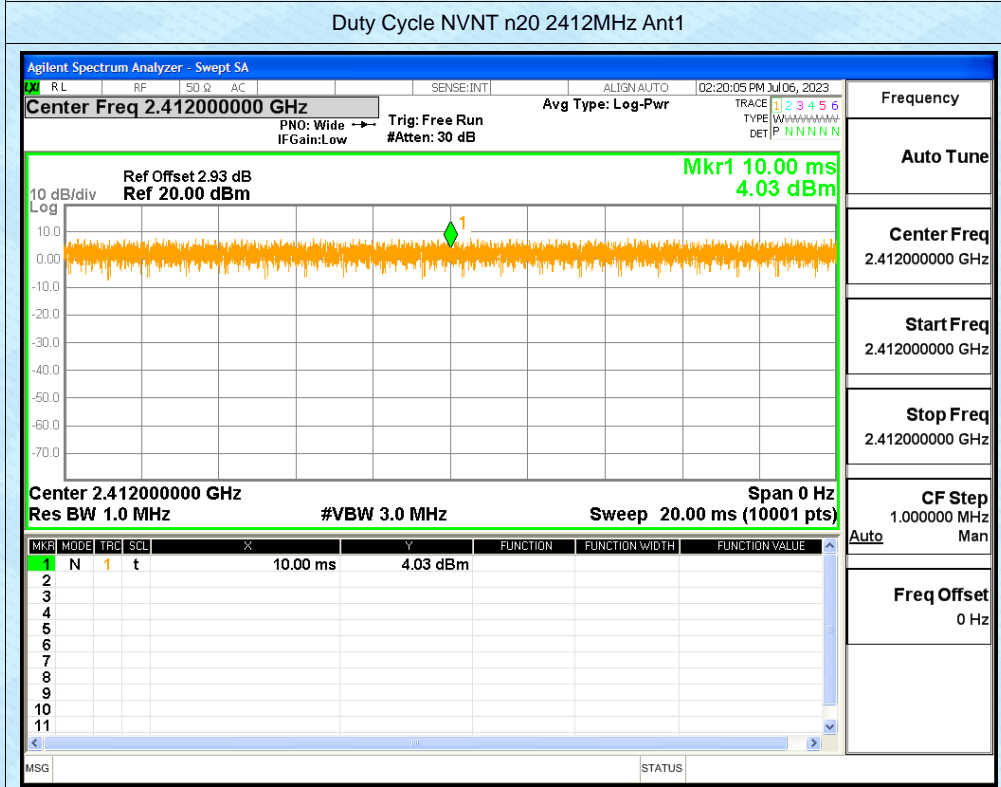
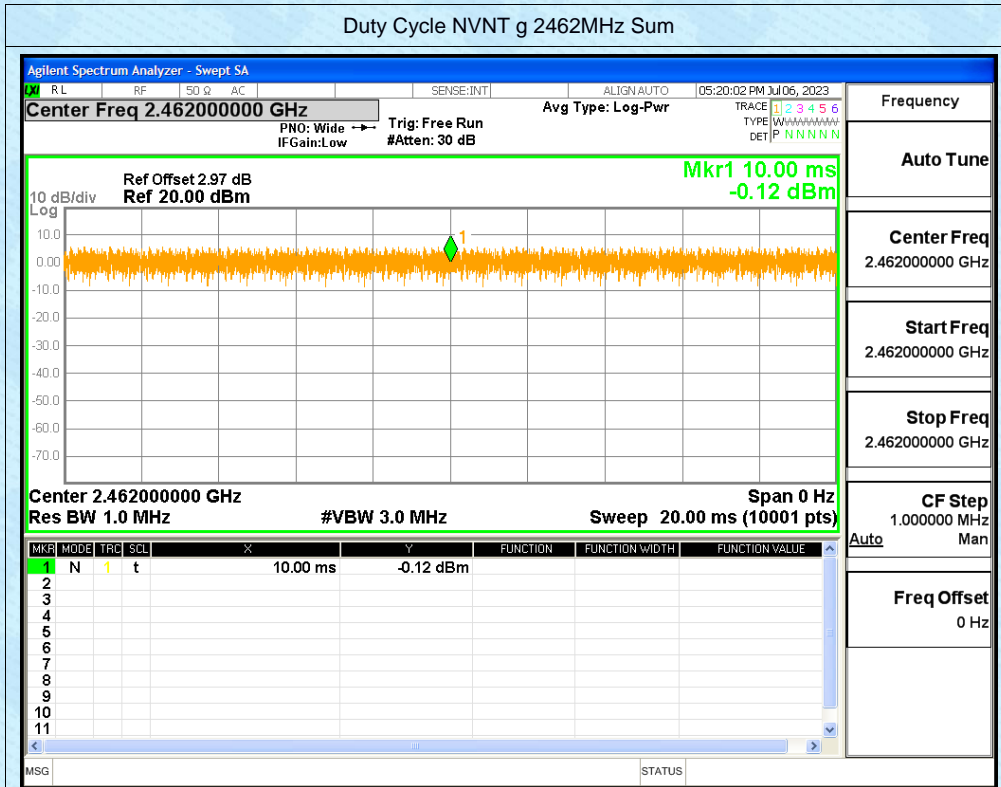
#### Duty Cycle NVNT g 2437MHz Ant1

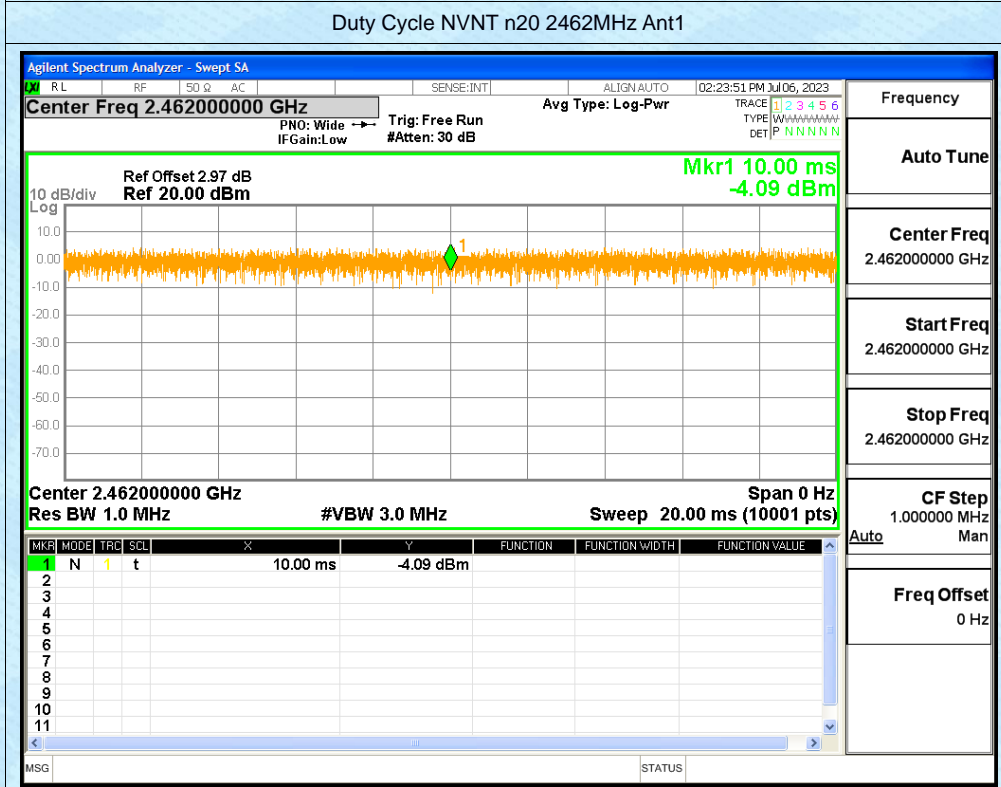
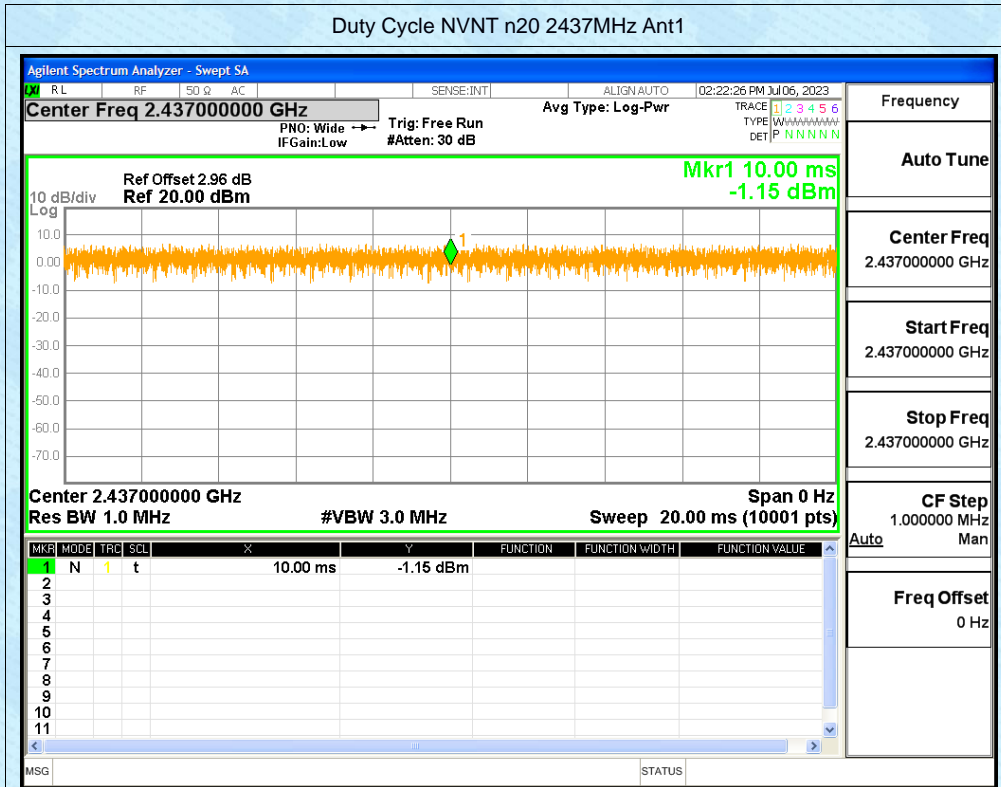


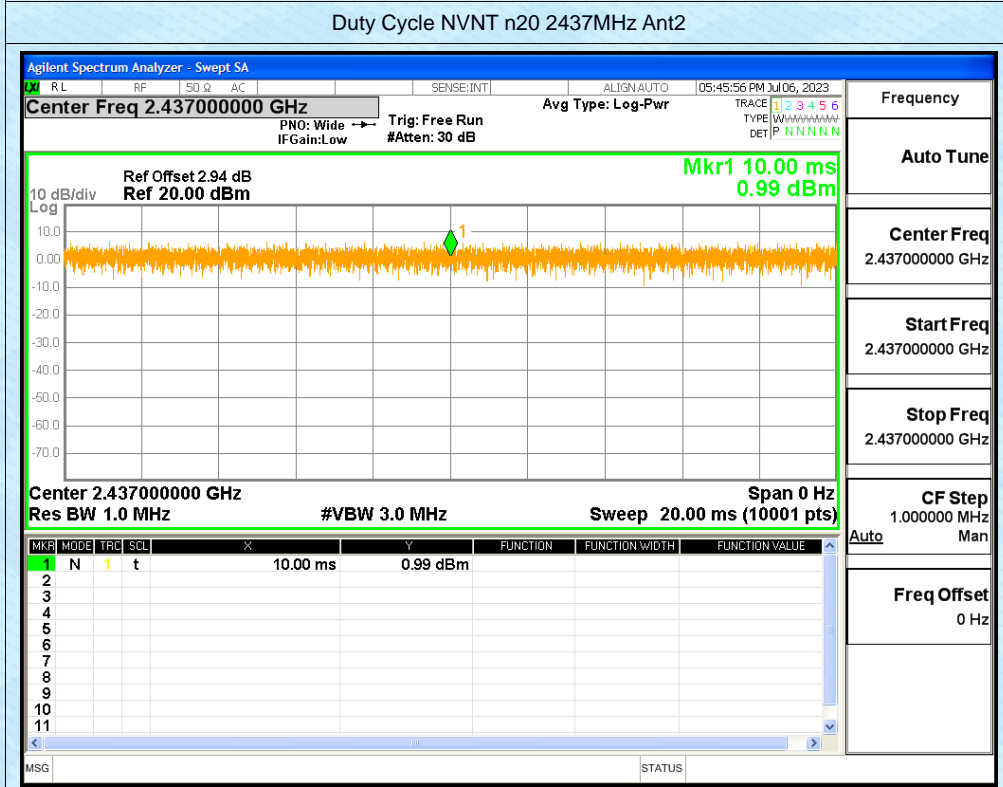
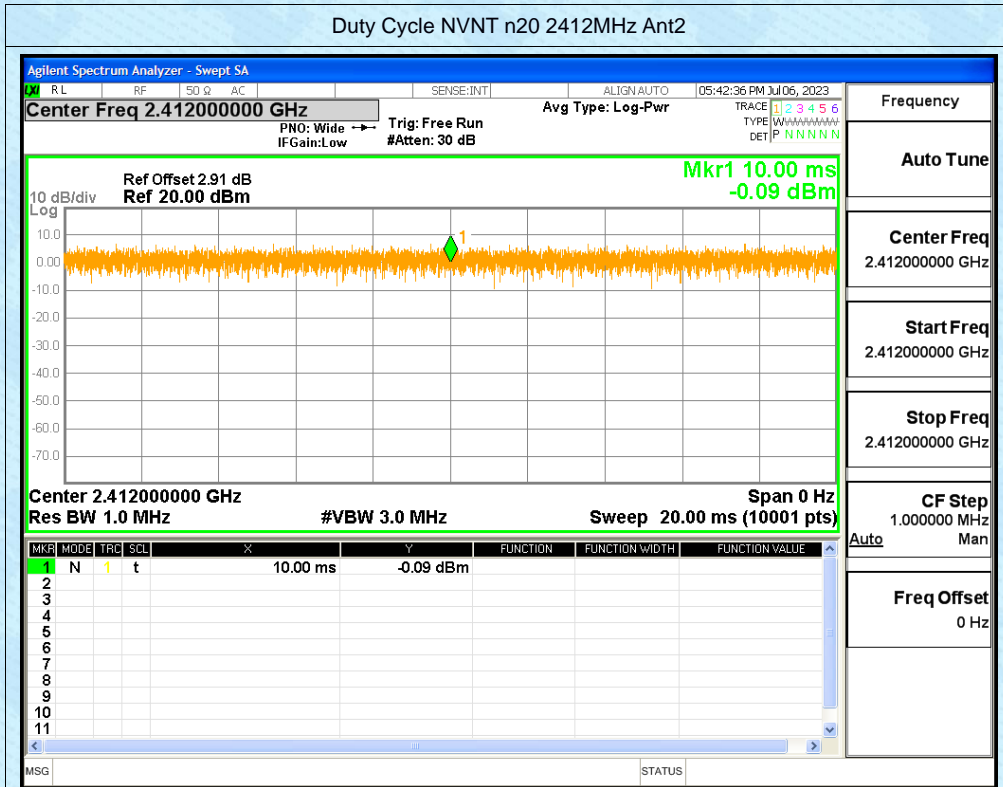




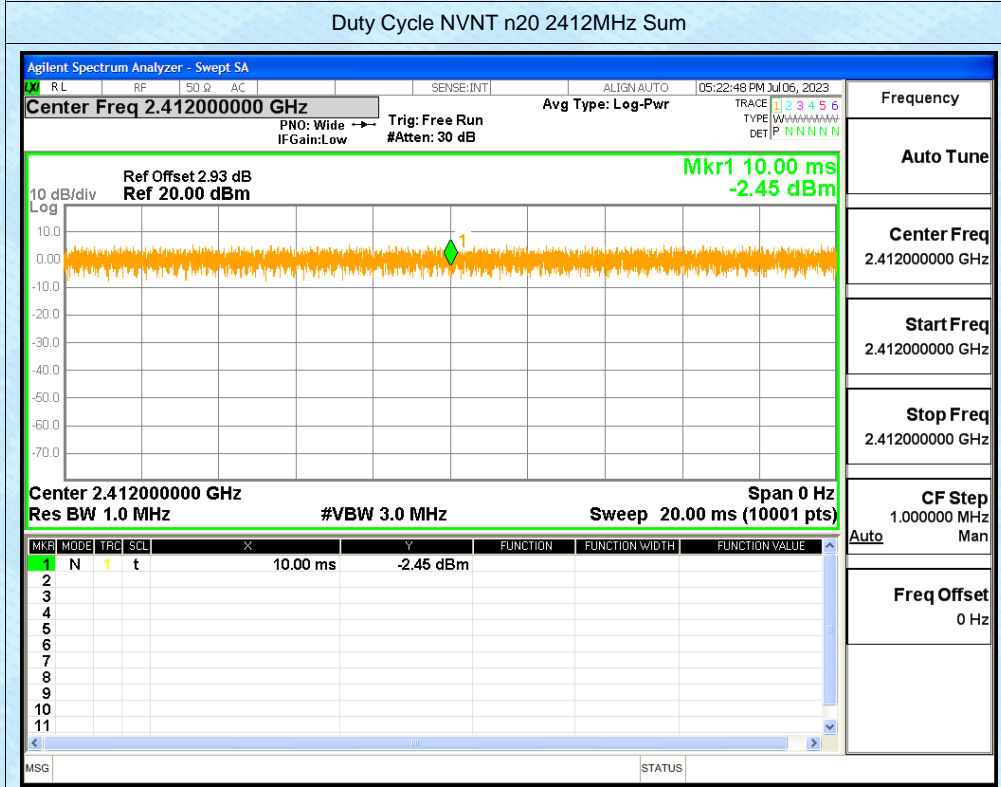
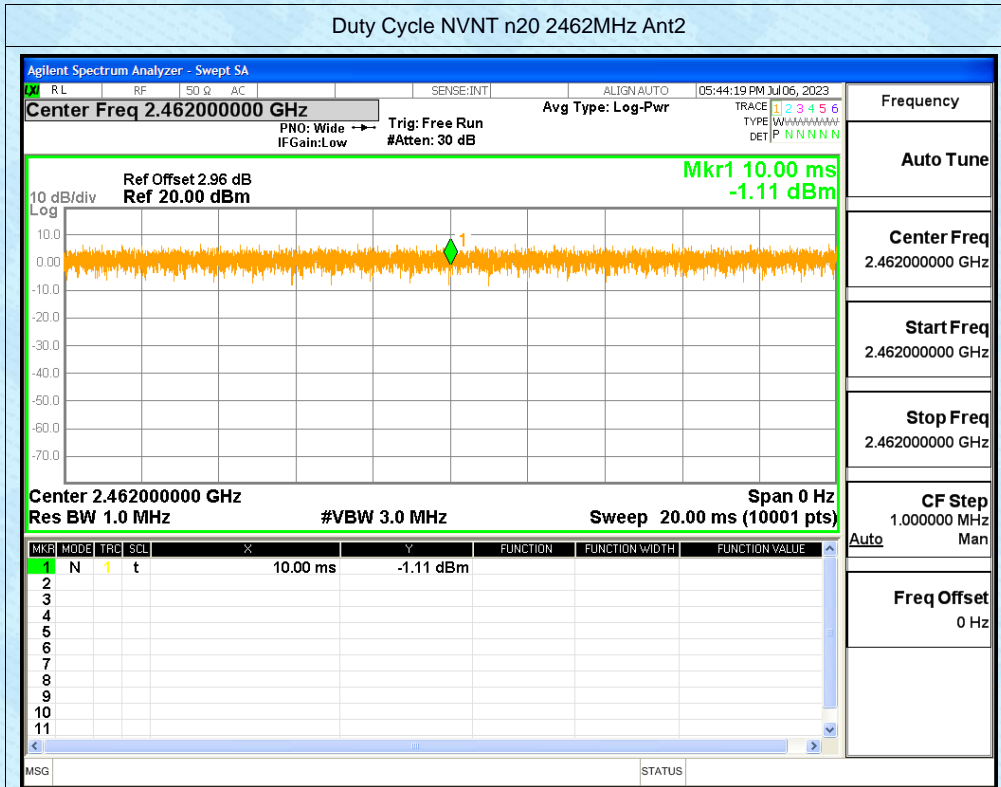


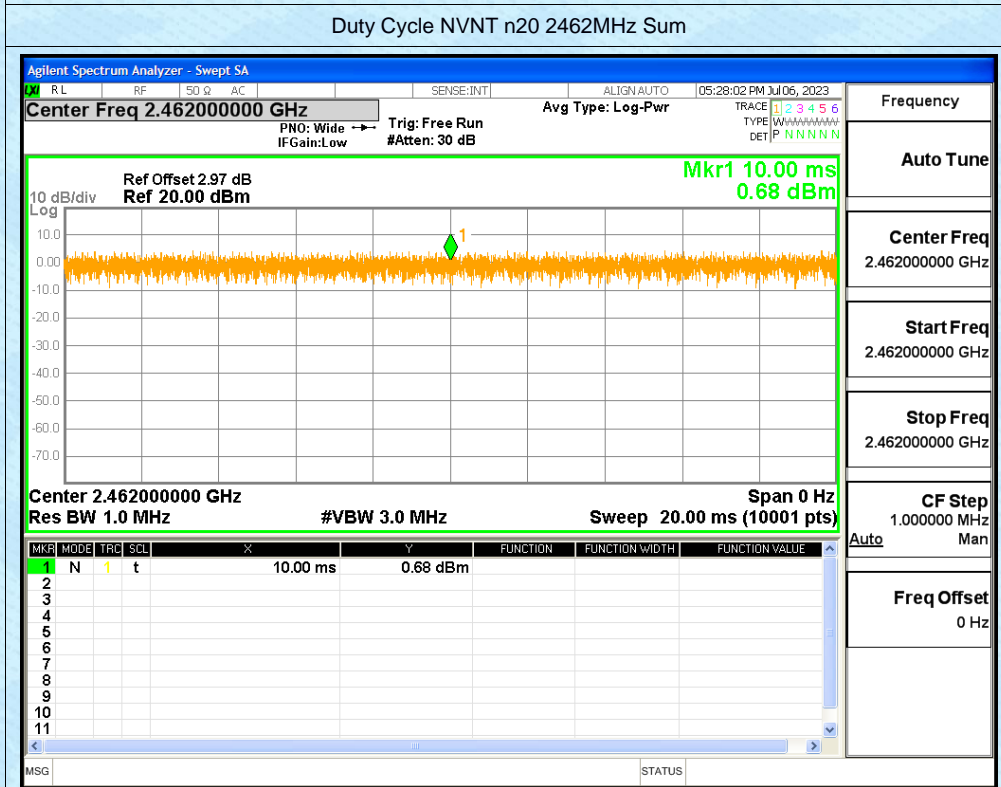
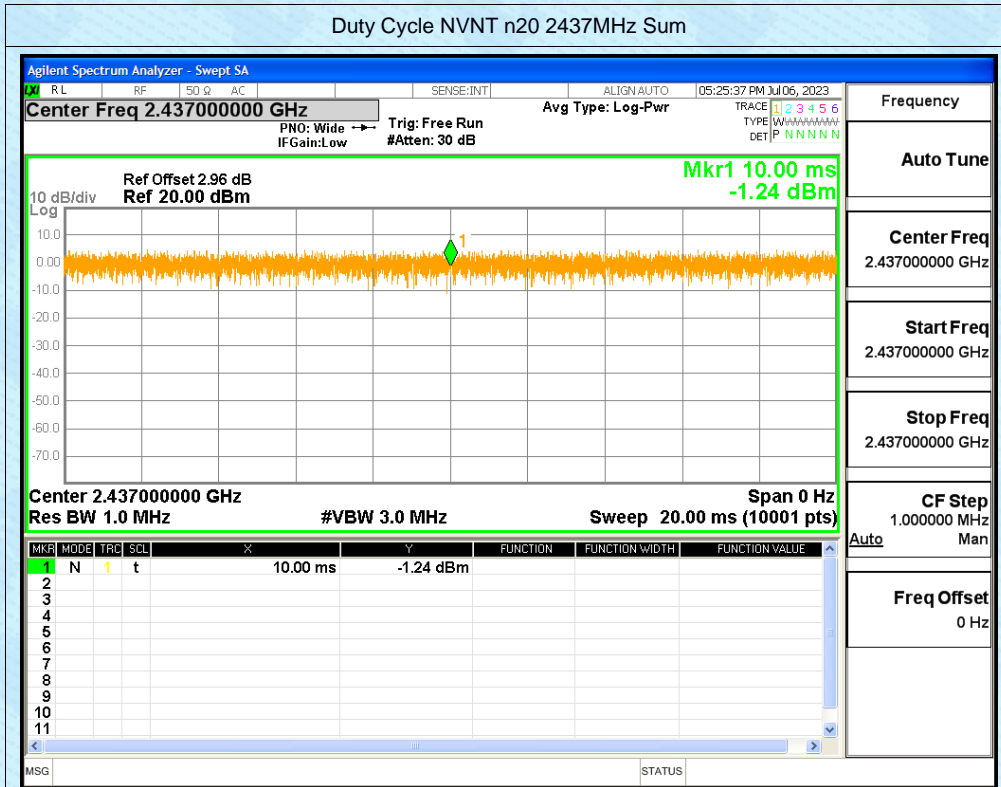












## Maximum Conducted Output Power

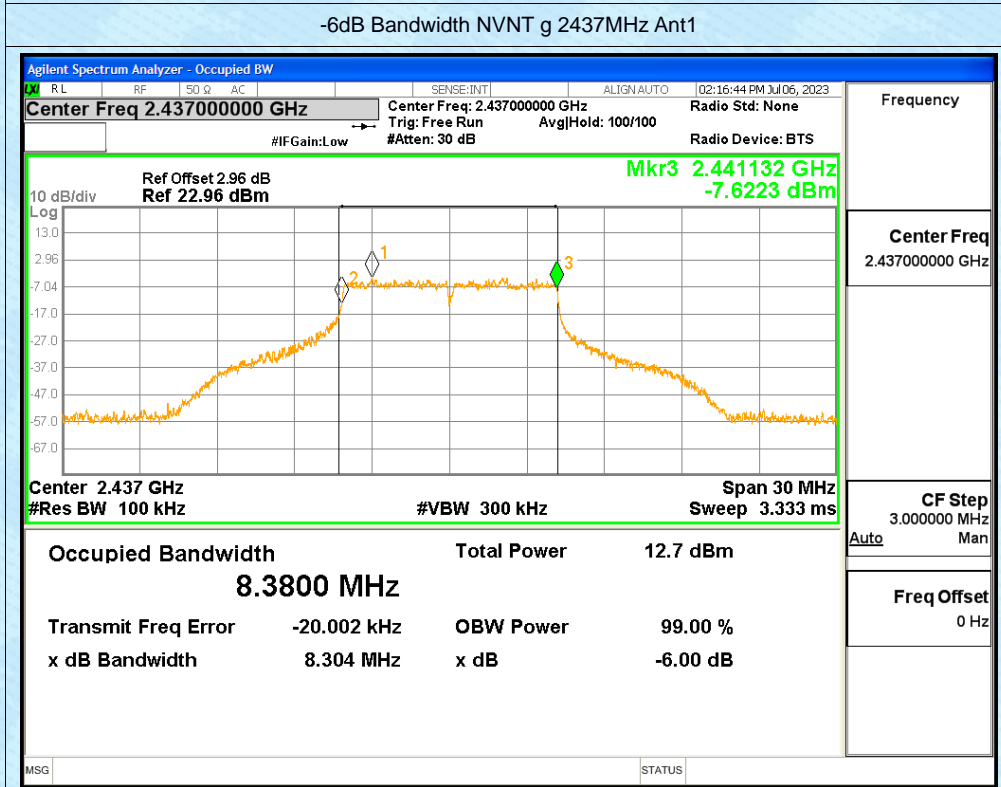
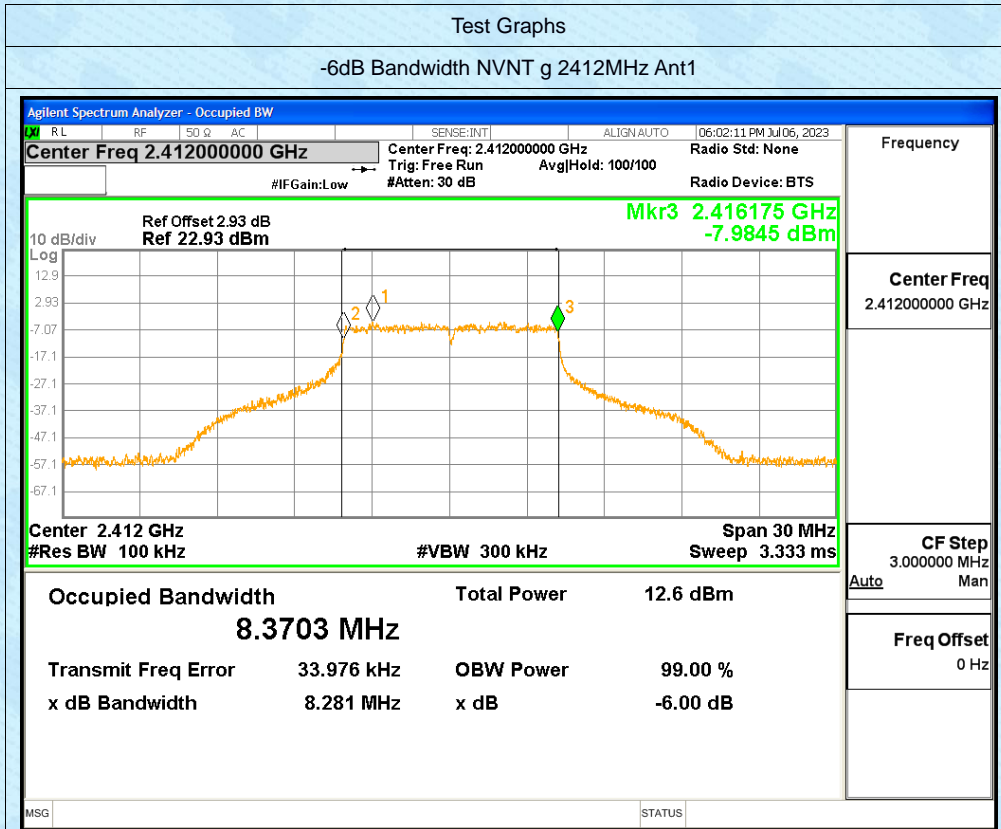
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict	
NVNT	g	2412	Ant1	6.43	0	6.43	30	Pass	
		2437		6.45	0	6.45	30	Pass	
		2462		6.16	0	6.16	30	Pass	
		2412	Ant2	5.54	0	5.54	30	Pass	
		2437		5.26	0	5.26	30	Pass	
		2462		5.11	0	5.11	30	Pass	
		2412	Ant1	5.74	0	5.74	30	Pass	
			Ant2	4.95	0	4.95	30	Pass	
			Sum	8.37	0	8.37	30	Pass	
		2437	Ant1	3.66	0	3.66	30	Pass	
			Ant2	3.17	0	3.17	30	Pass	
			Sum	6.43	0	6.43	30	Pass	
		2462	Ant1	6.46	0	6.46	30	Pass	
			Ant2	5.64	0	5.64	30	Pass	
			Sum	9.08	0	9.08	30	Pass	
		n20	2412	Ant1	8.68	0	8.68	30	Pass
			2437		7.49	0	7.49	30	Pass
			2462		5.56	0	5.56	30	Pass
	2412		Ant2	7.43	0	7.43	30	Pass	
	2437			6.74	0	6.74	30	Pass	
	2462			6.72	0	6.72	30	Pass	
	2412		Ant1	6.16	0	6.16	30	Pass	
			Ant2	5.23	0	5.23	30	Pass	
			Sum	8.73	0	8.73	30	Pass	
	2437		Ant1	5.44	0	5.44	30	Pass	
			Ant2	4.88	0	4.88	30	Pass	
			Sum	8.18	0	8.18	30	Pass	
	2462		Ant1	5.32	0	5.32	30	Pass	
			Ant2	4.48	0	4.48	30	Pass	
			Sum	7.93	0	7.93	30	Pass	

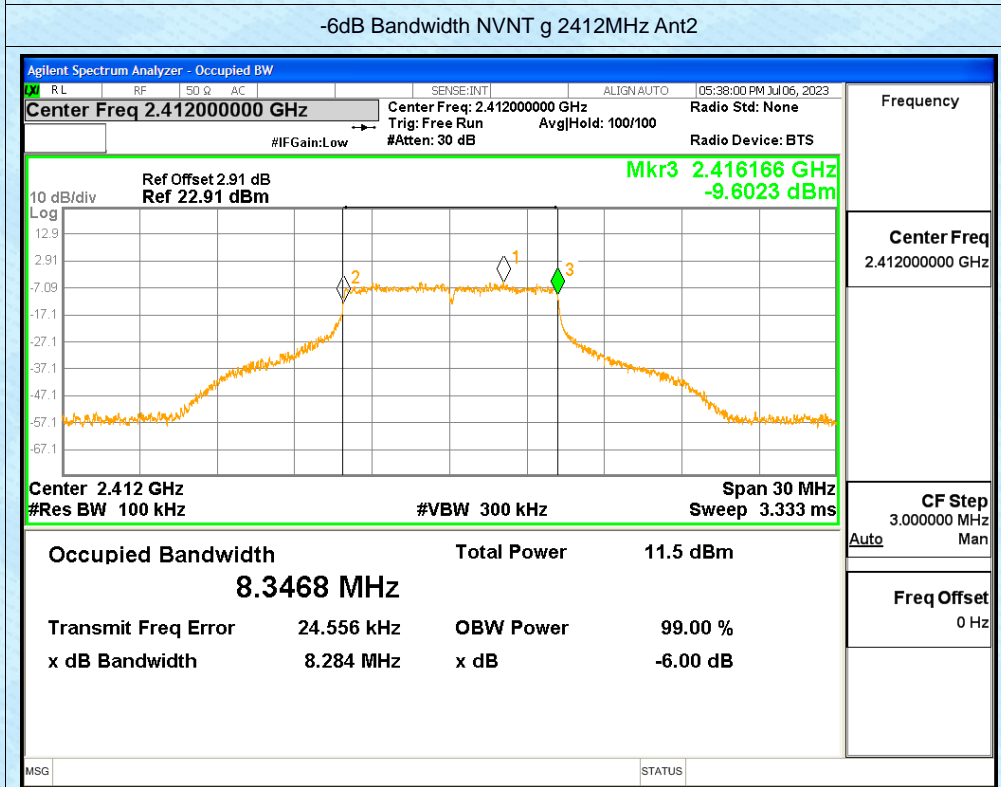
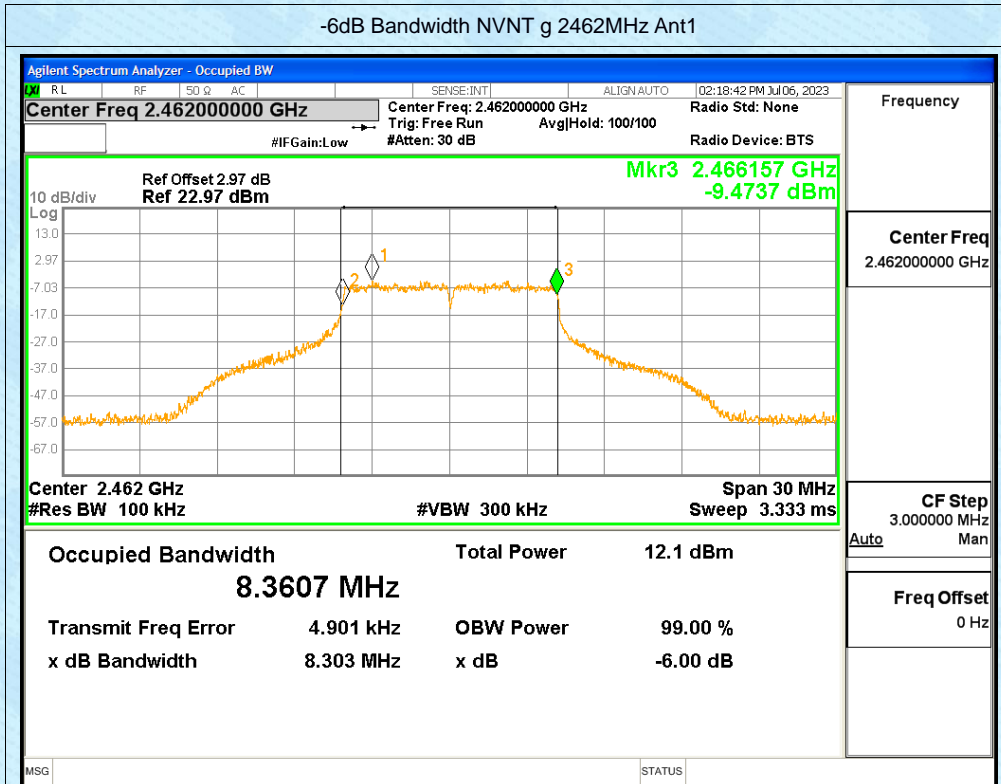
**Note:** transmit signals are completely correlated,

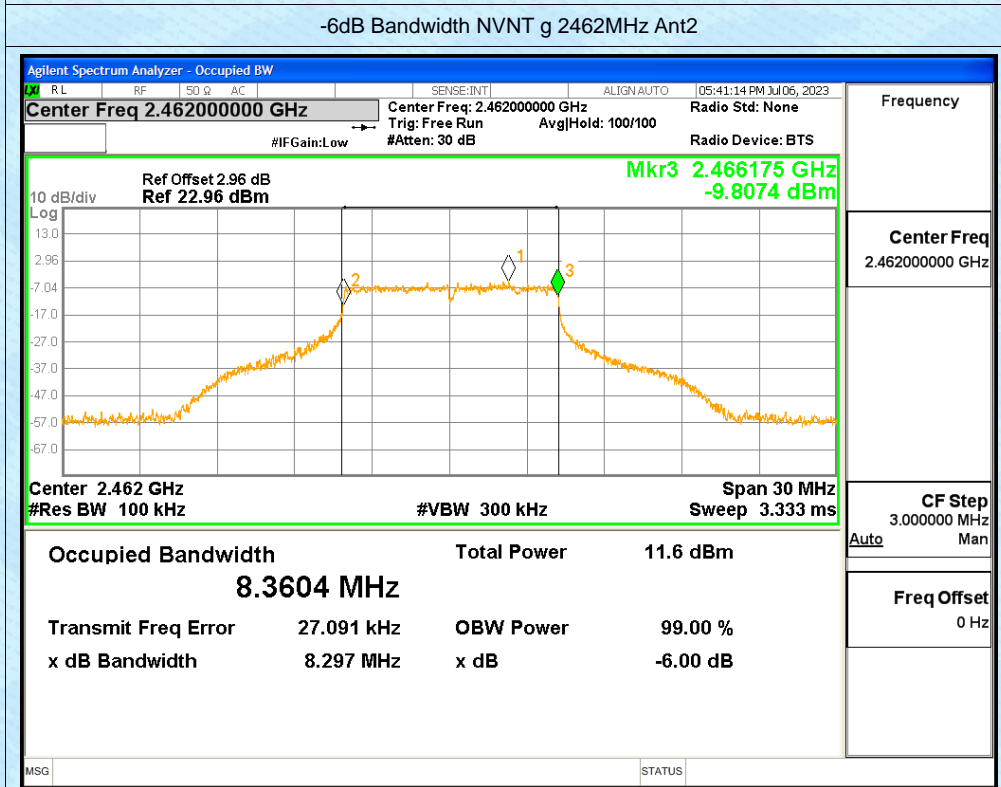
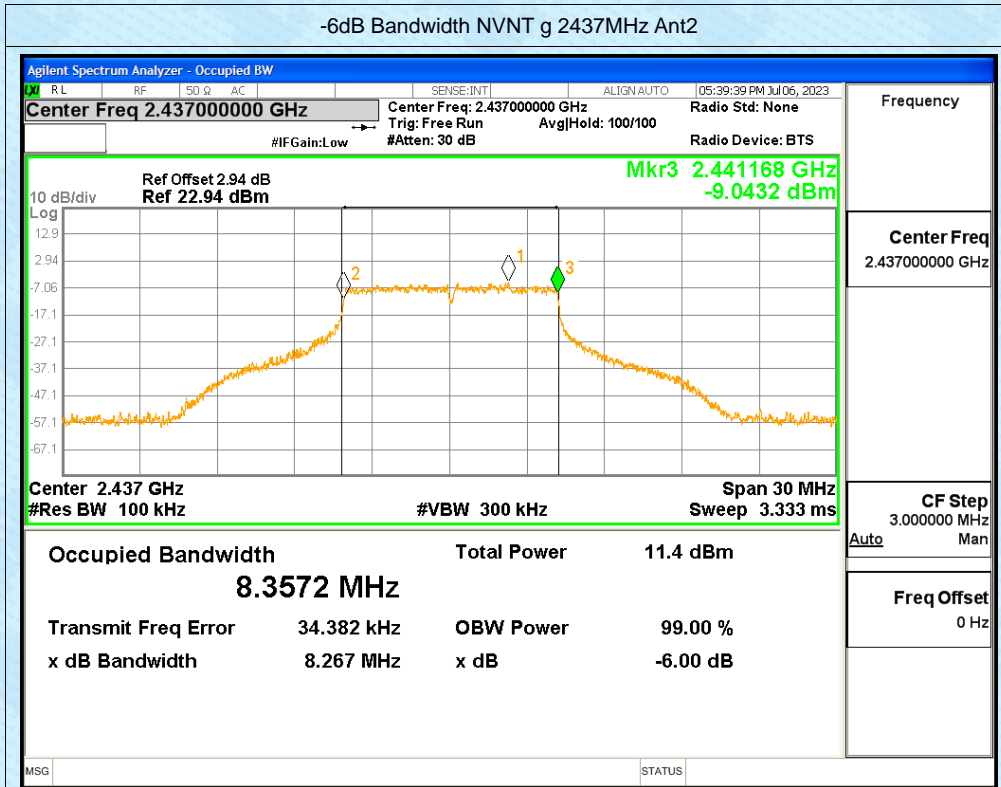
Directional gain=10 x log<sub>10</sub>[(2/20+ 2/20)<sup>2</sup>/2]=5.01dBi

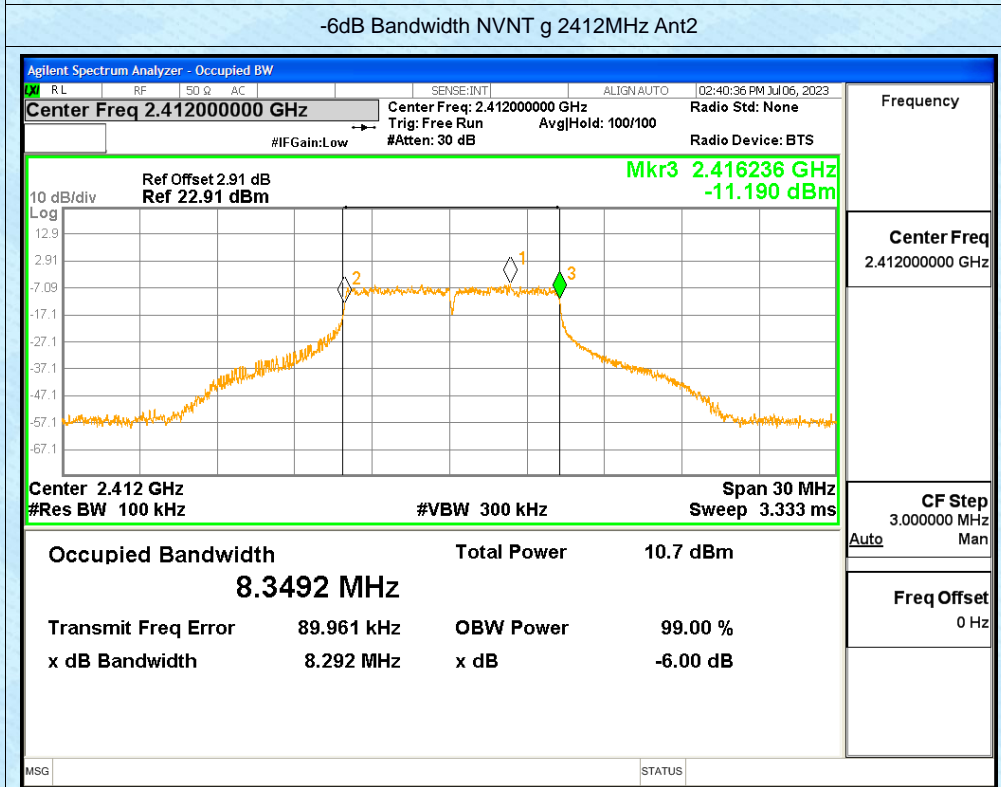
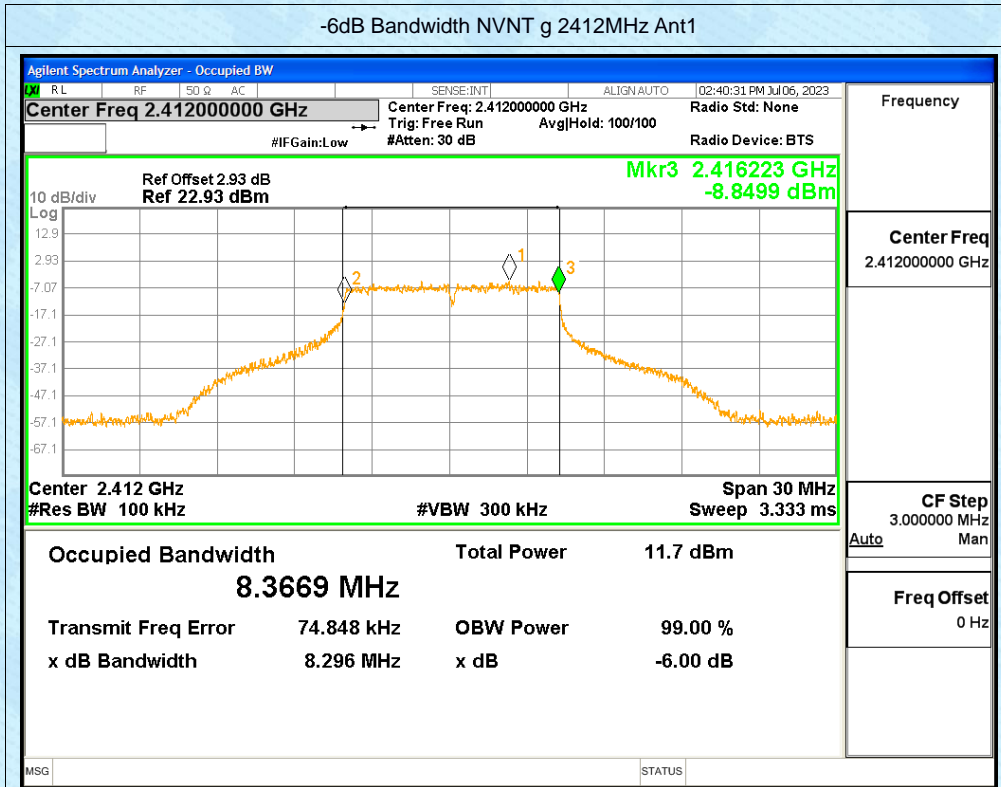
## -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	g	2412	Ant1	8.281	0.5	Pass
		2437		8.304	0.5	Pass
		2462		8.303	0.5	Pass
		2412	Ant2	8.284	0.5	Pass
		2437		8.267	0.5	Pass
		2462		8.297	0.5	Pass
		2412	Ant1	8.296	0.5	Pass
			Ant2	8.292	0.5	Pass
		2437	Ant1	8.288	0.5	Pass
			Ant2	8.304	0.5	Pass
		2462	Ant1	8.301	0.5	Pass
			Ant2	8.272	0.5	Pass
	n20	2412	Ant1	8.864	0.5	Pass
		2437		8.9	0.5	Pass
		2462		8.913	0.5	Pass
		2412	Ant2	8.849	0.5	Pass
		2437		8.879	0.5	Pass
		2462		8.895	0.5	Pass
		2412	Ant1	8.896	0.5	Pass
			Ant2	8.897	0.5	Pass
		2437	Ant1	8.92	0.5	Pass
			Ant2	8.871	0.5	Pass
		2462	Ant1	8.902	0.5	Pass
			Ant2	8.9	0.5	Pass

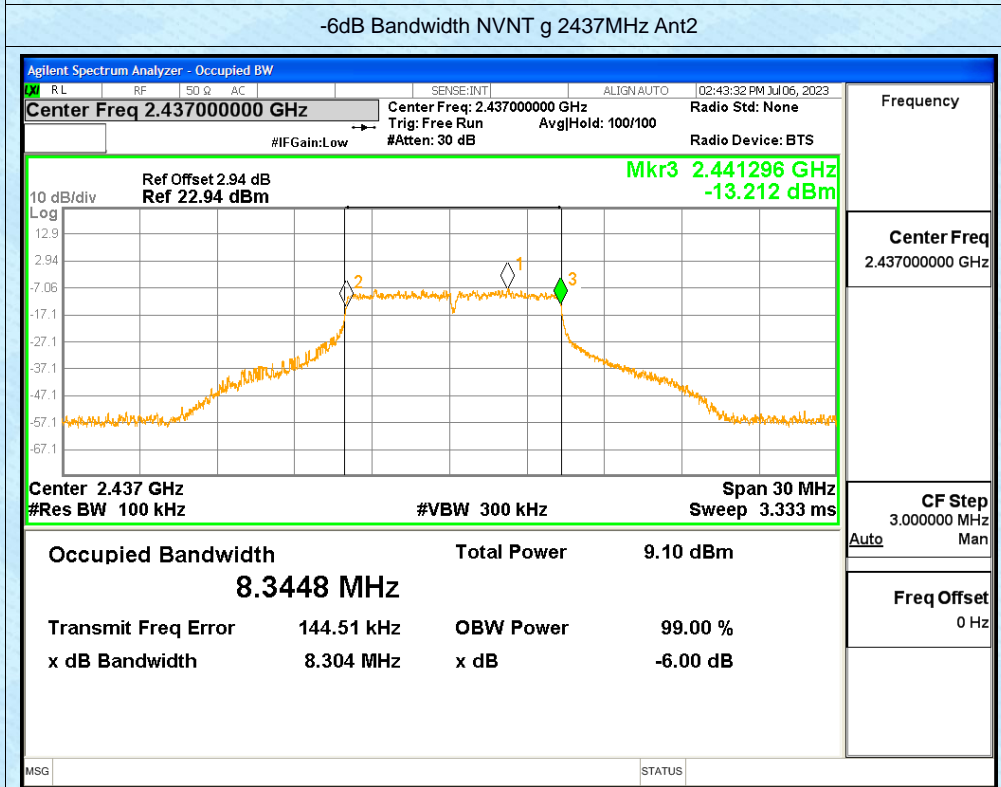
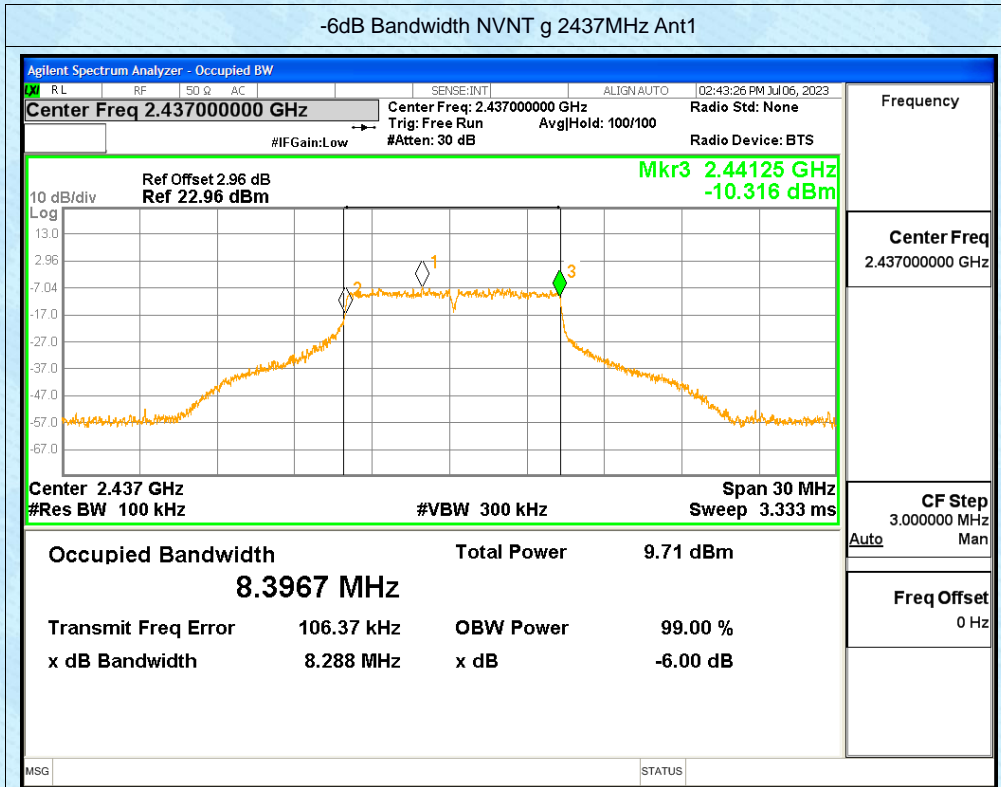


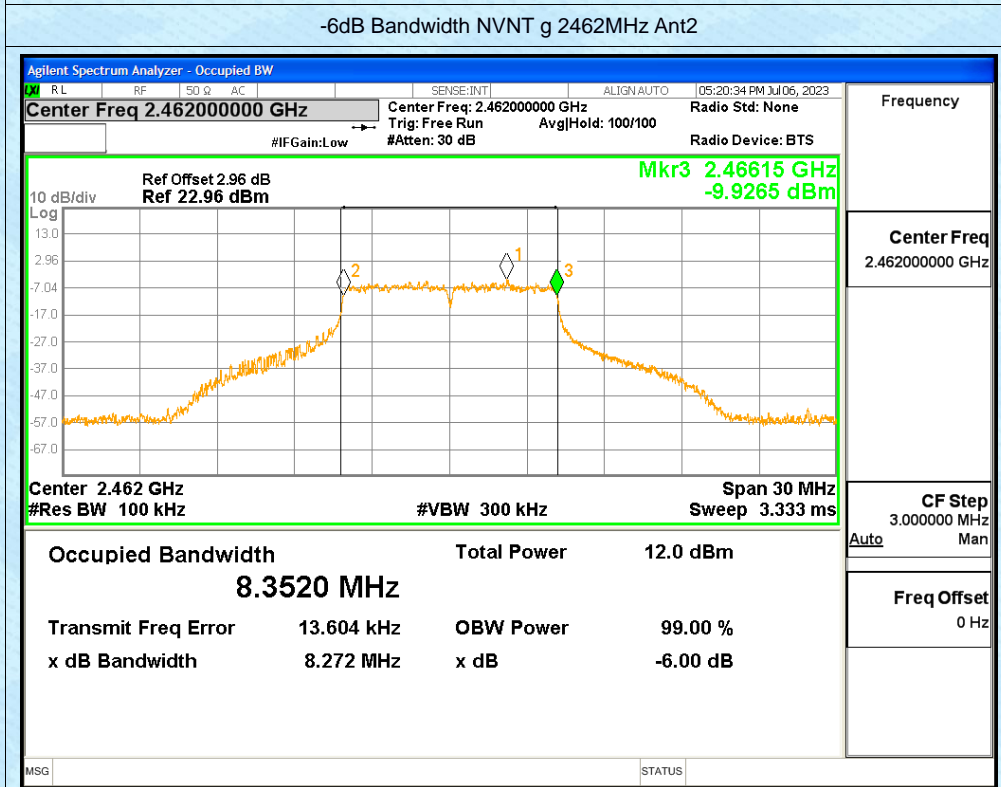
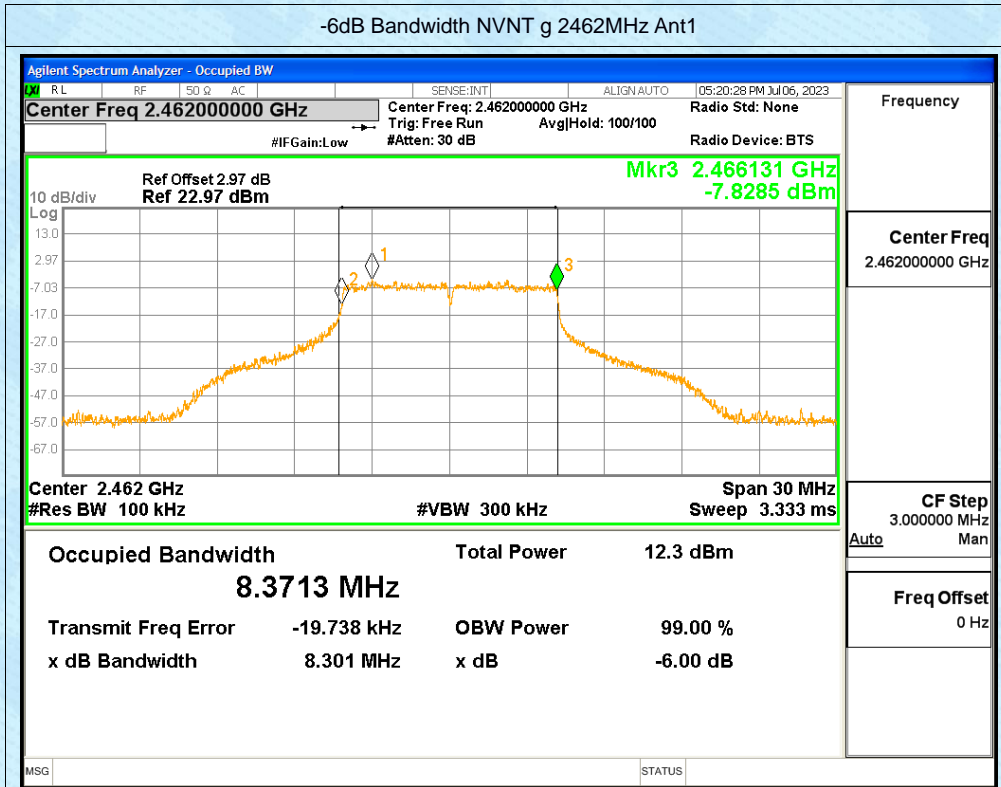


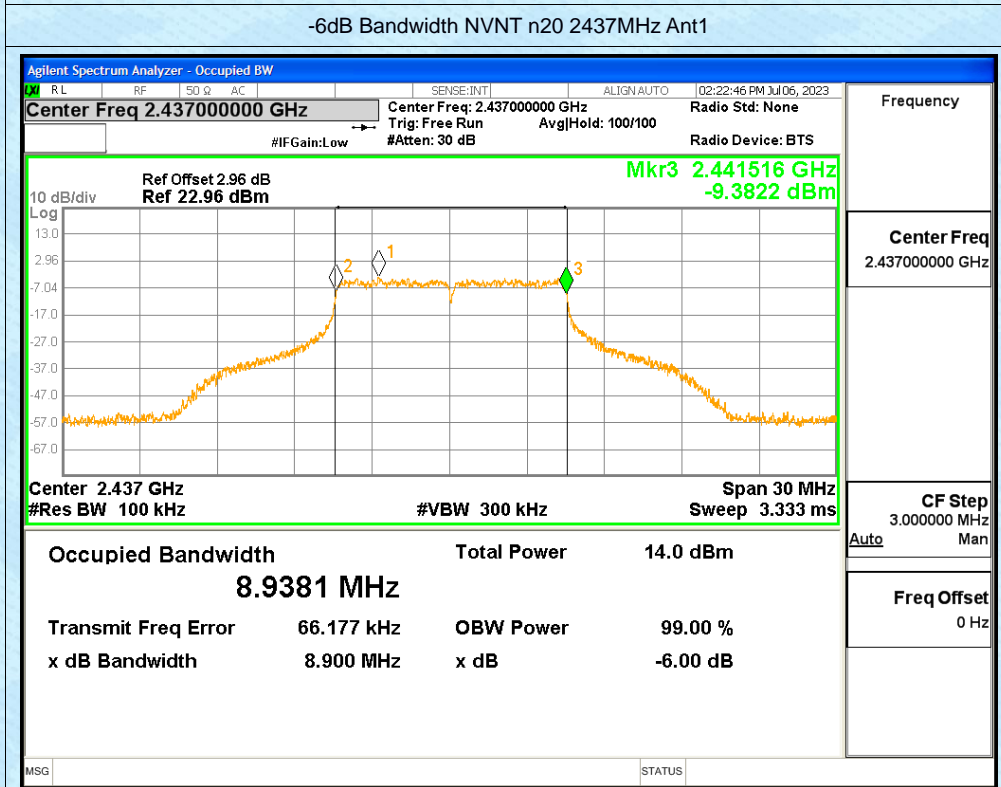
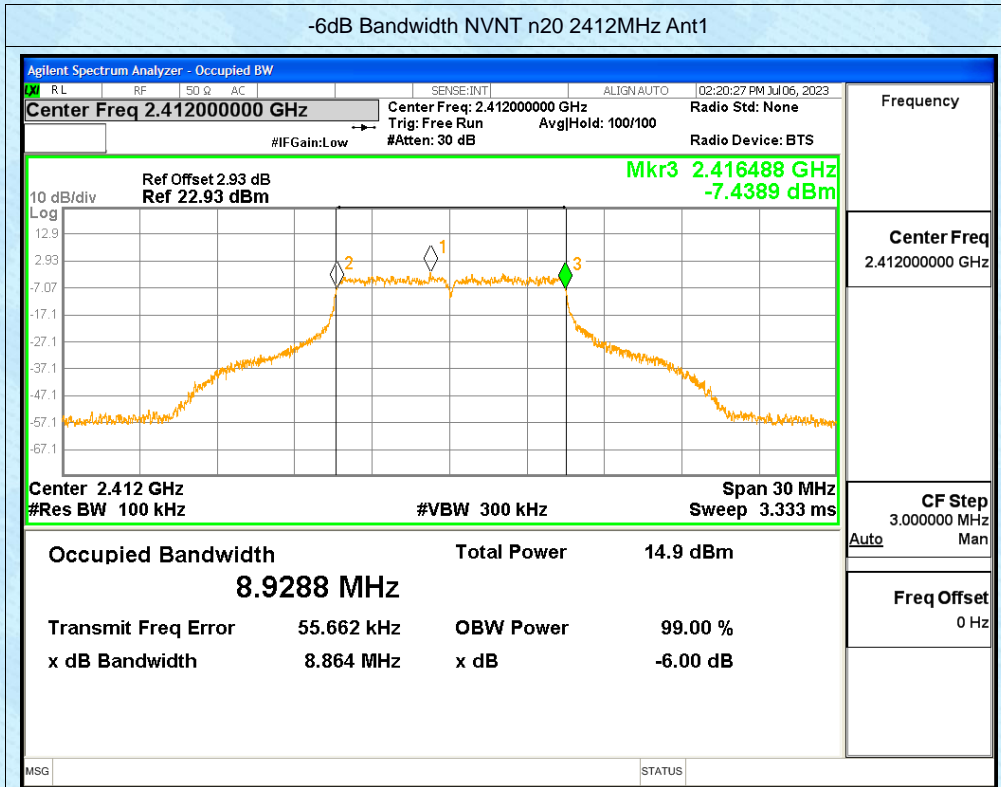


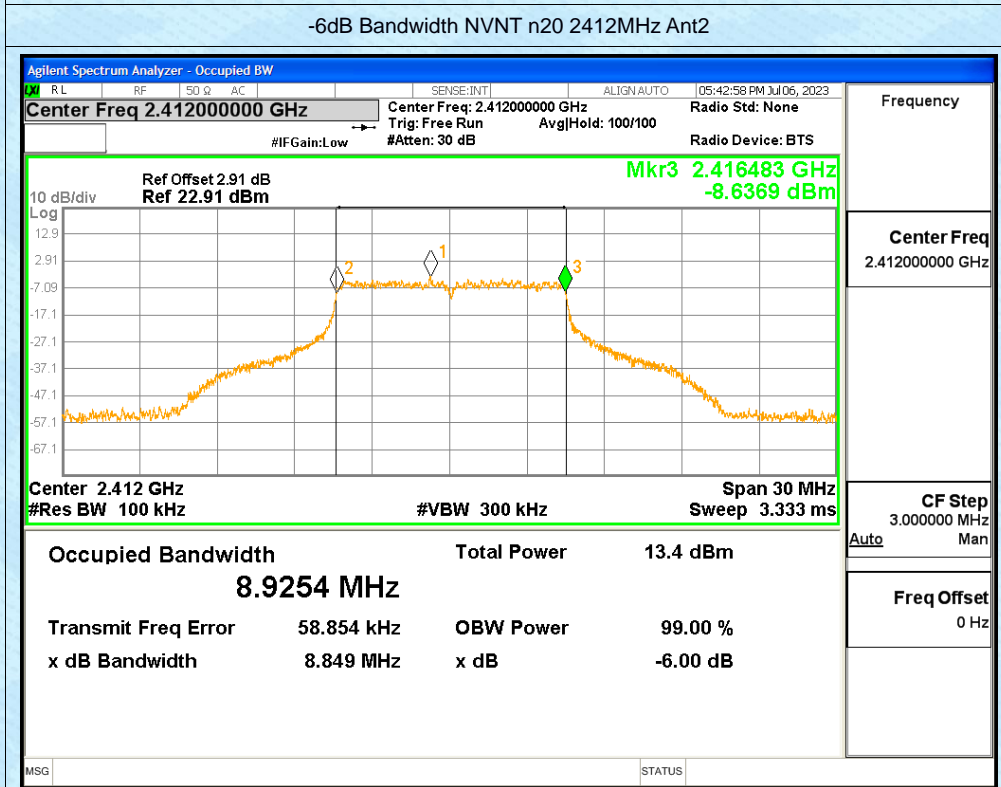
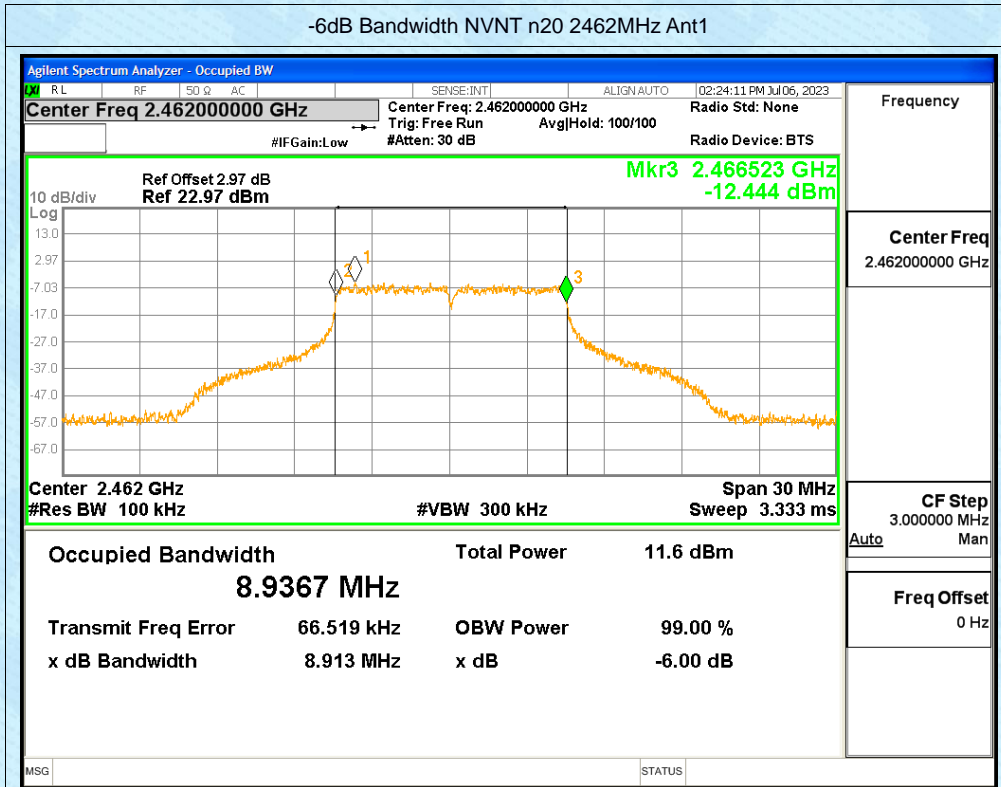


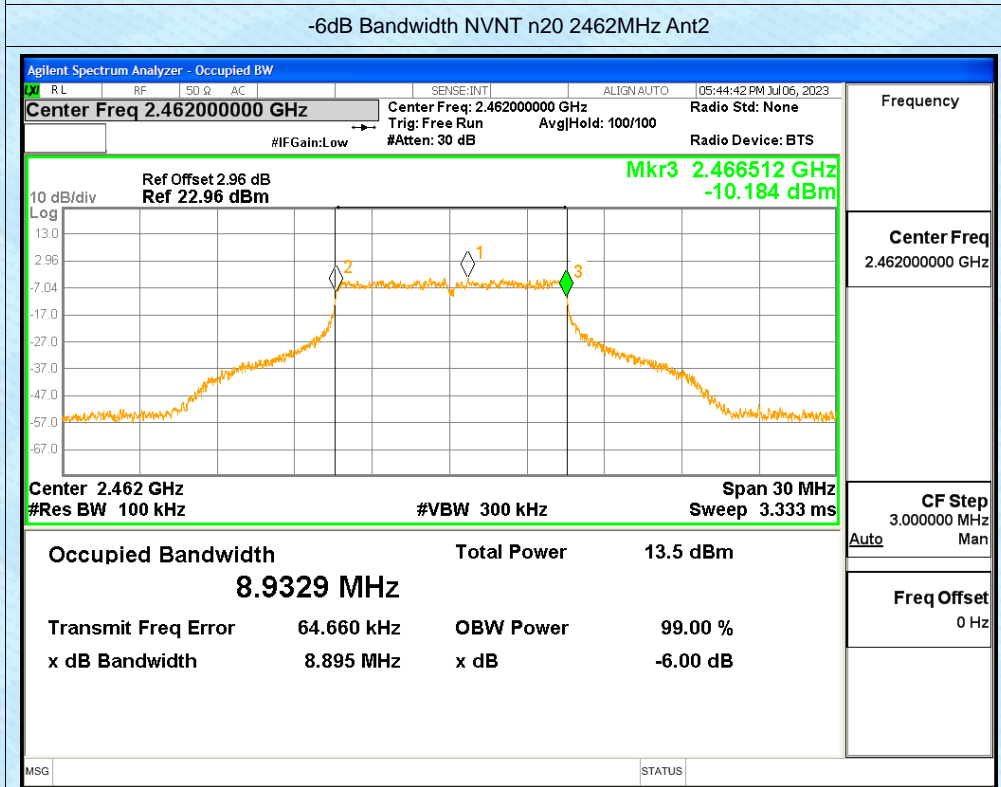
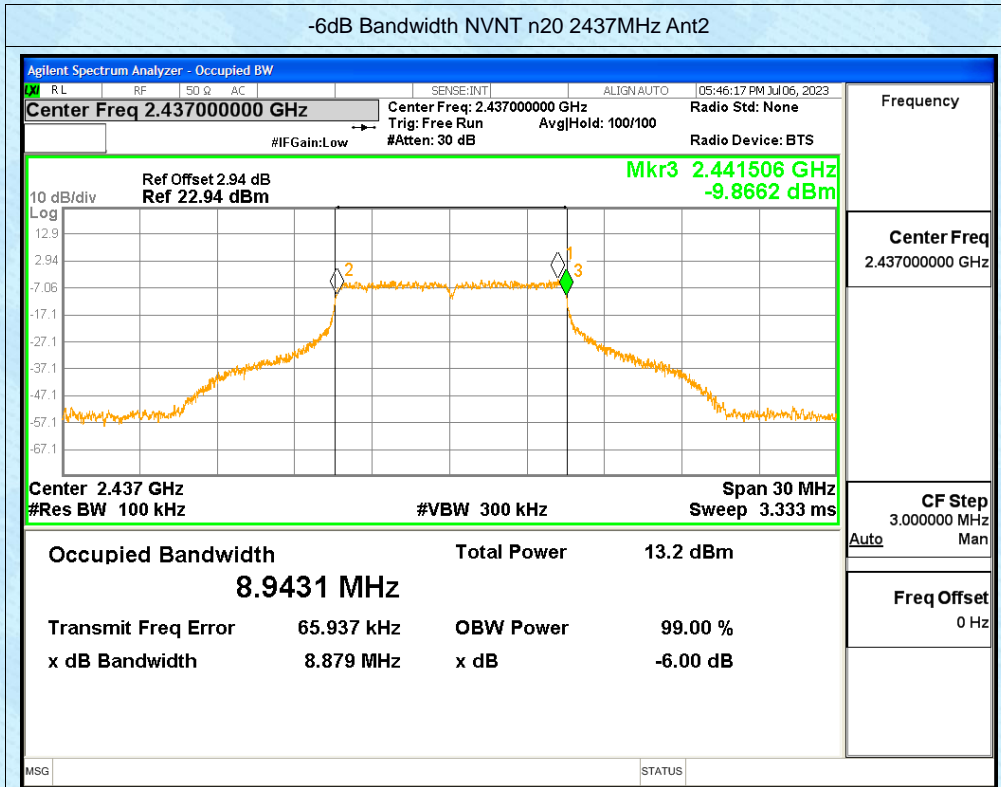


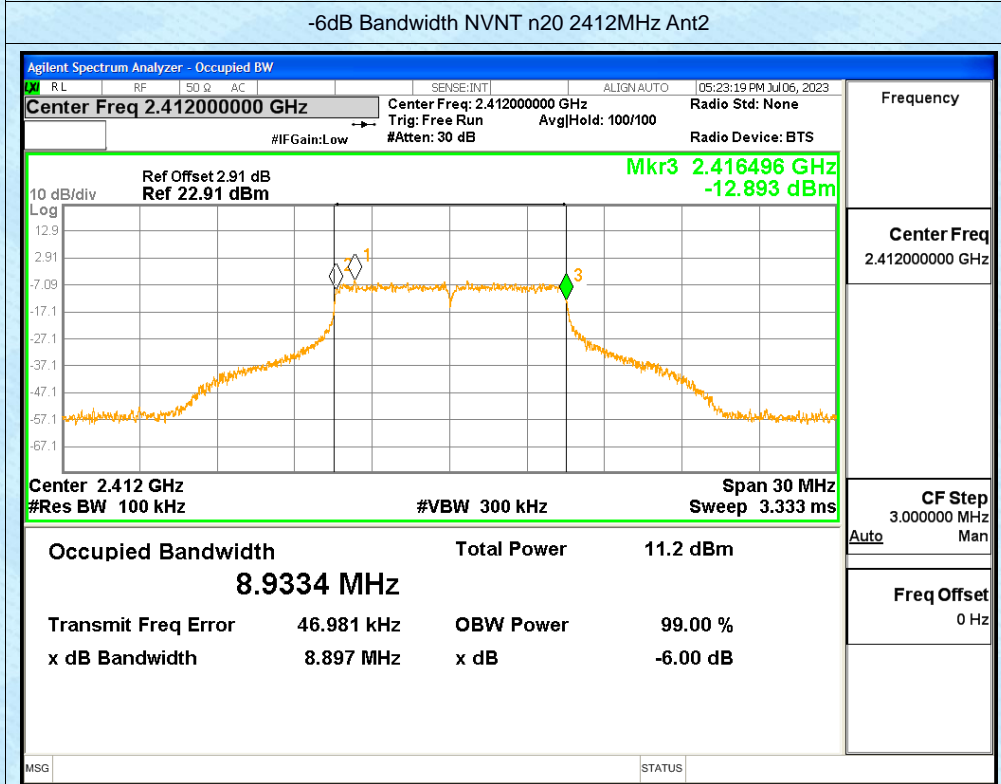
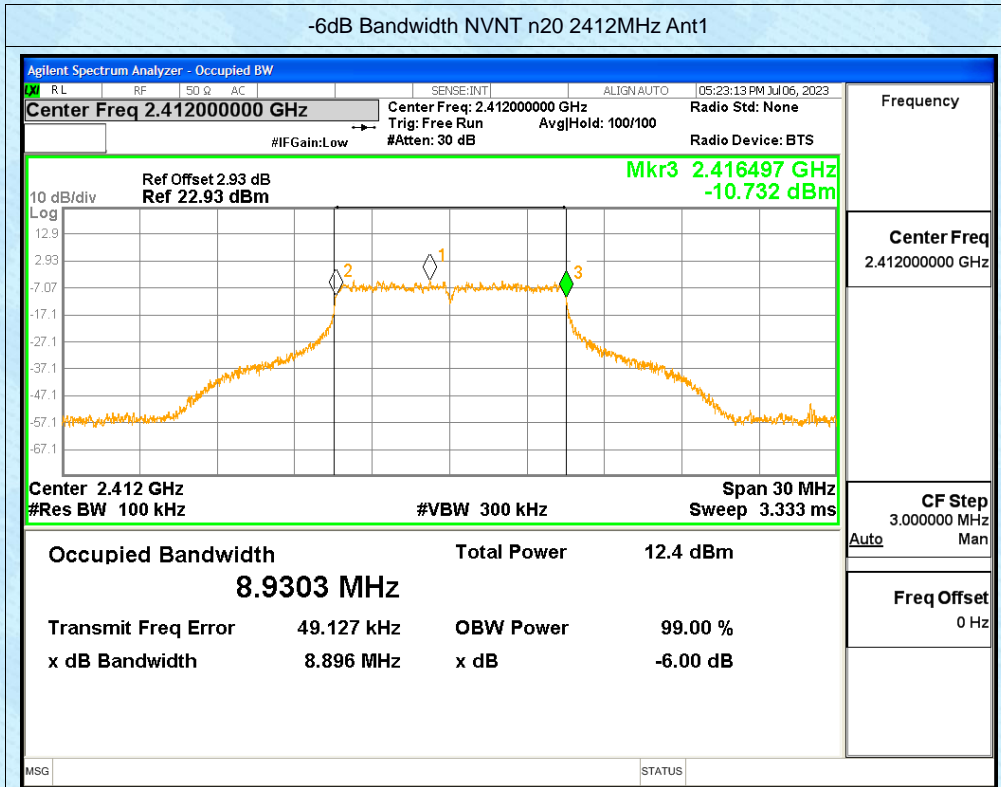


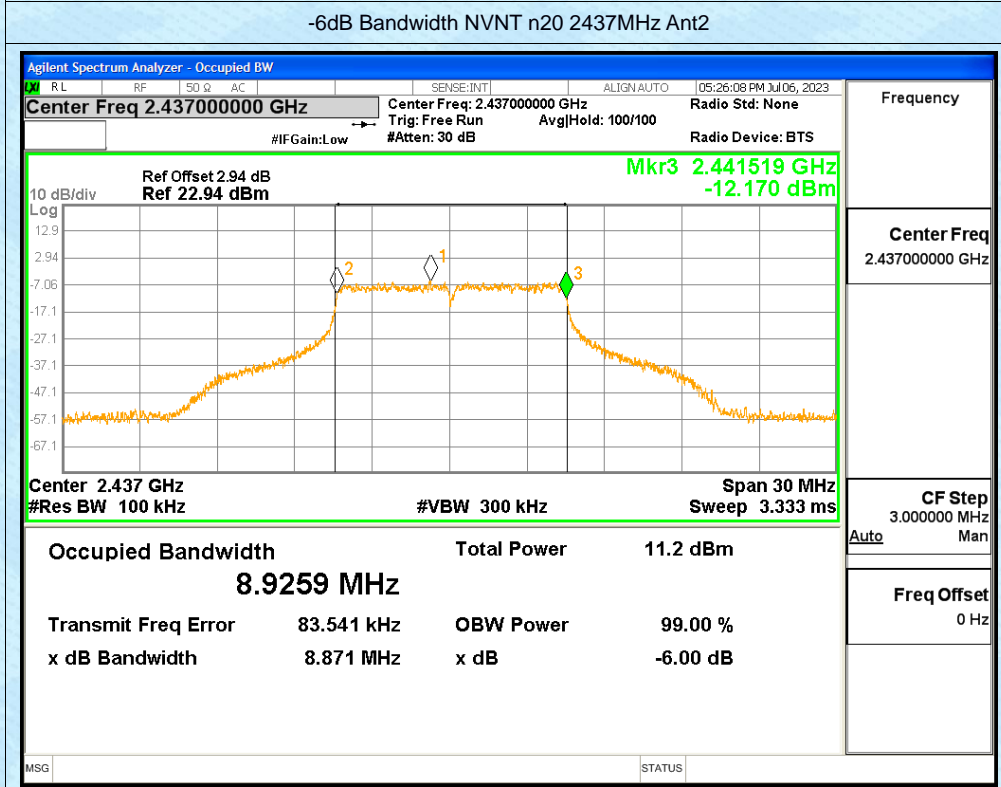
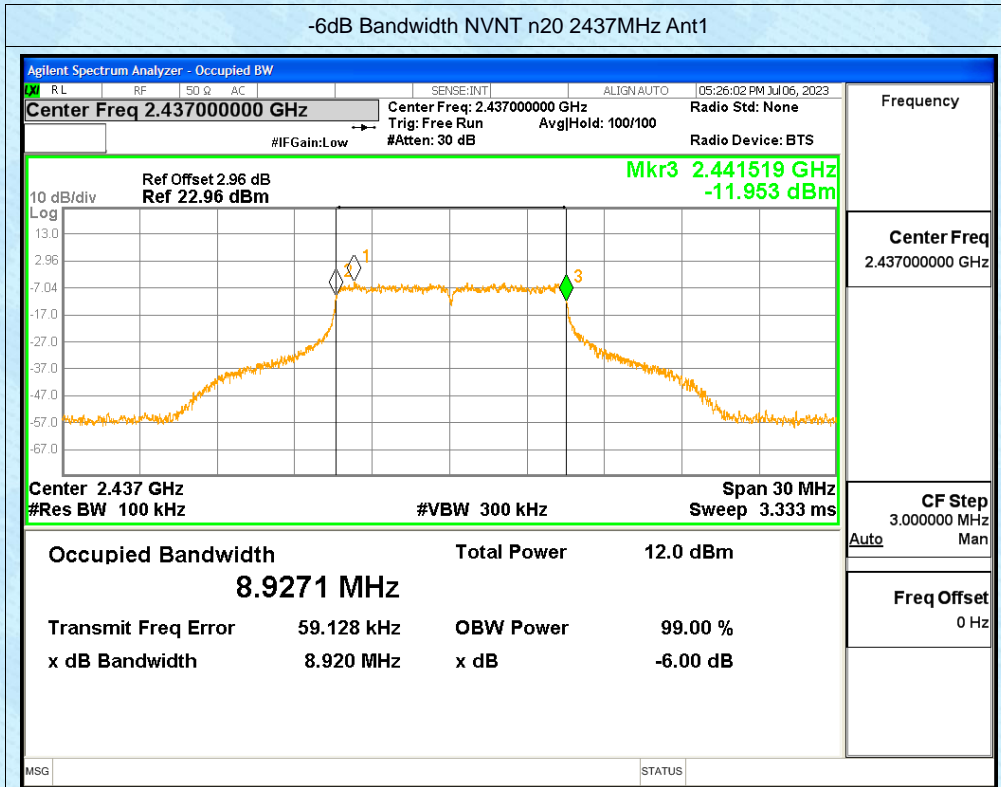


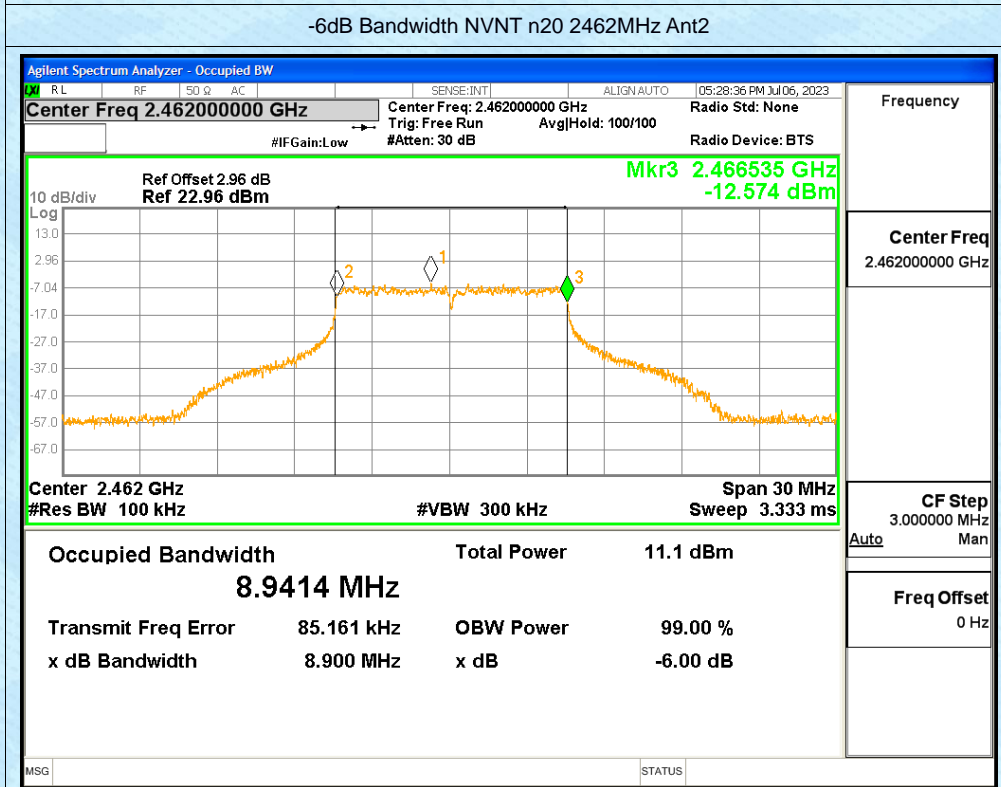
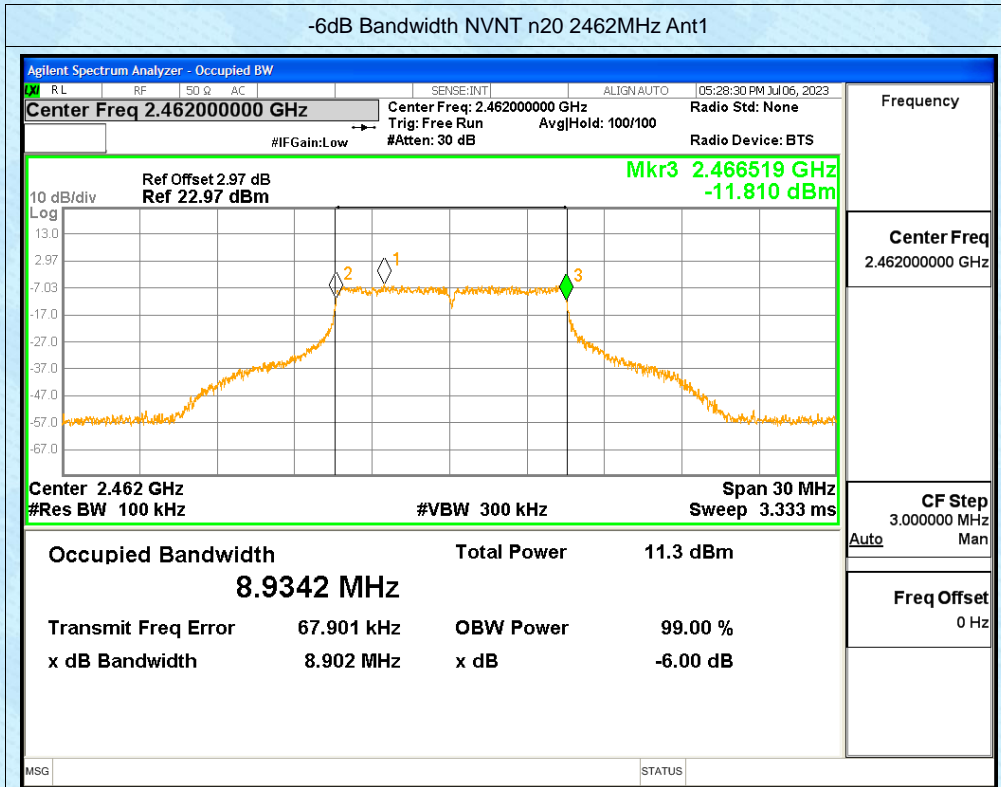








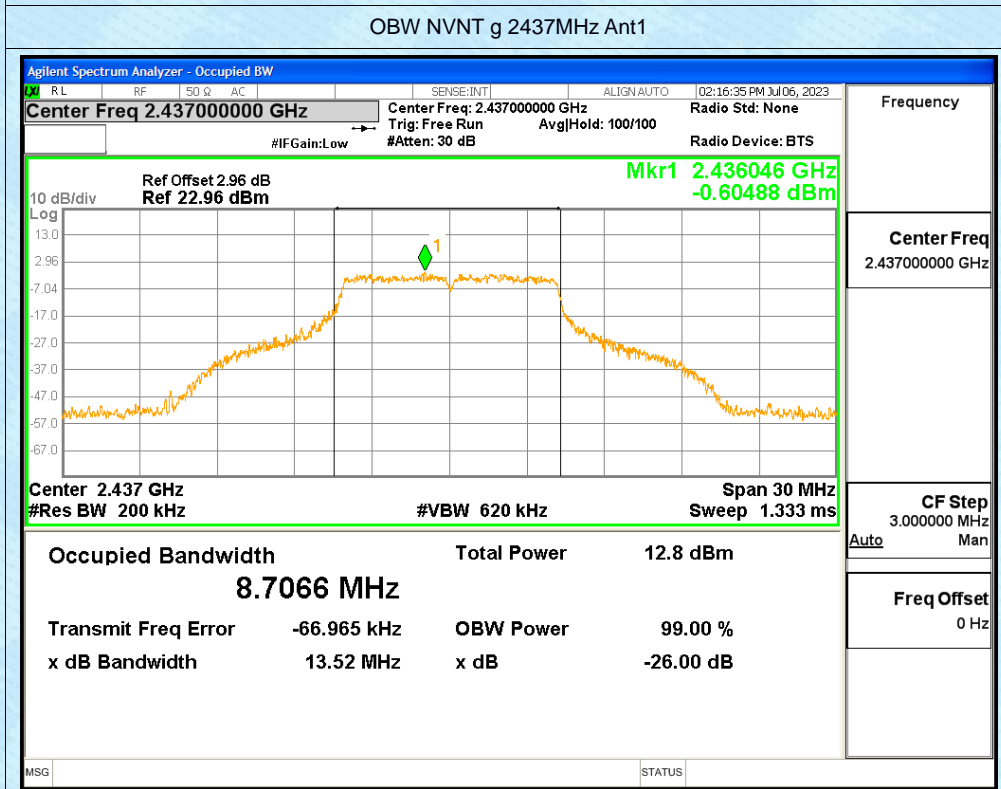
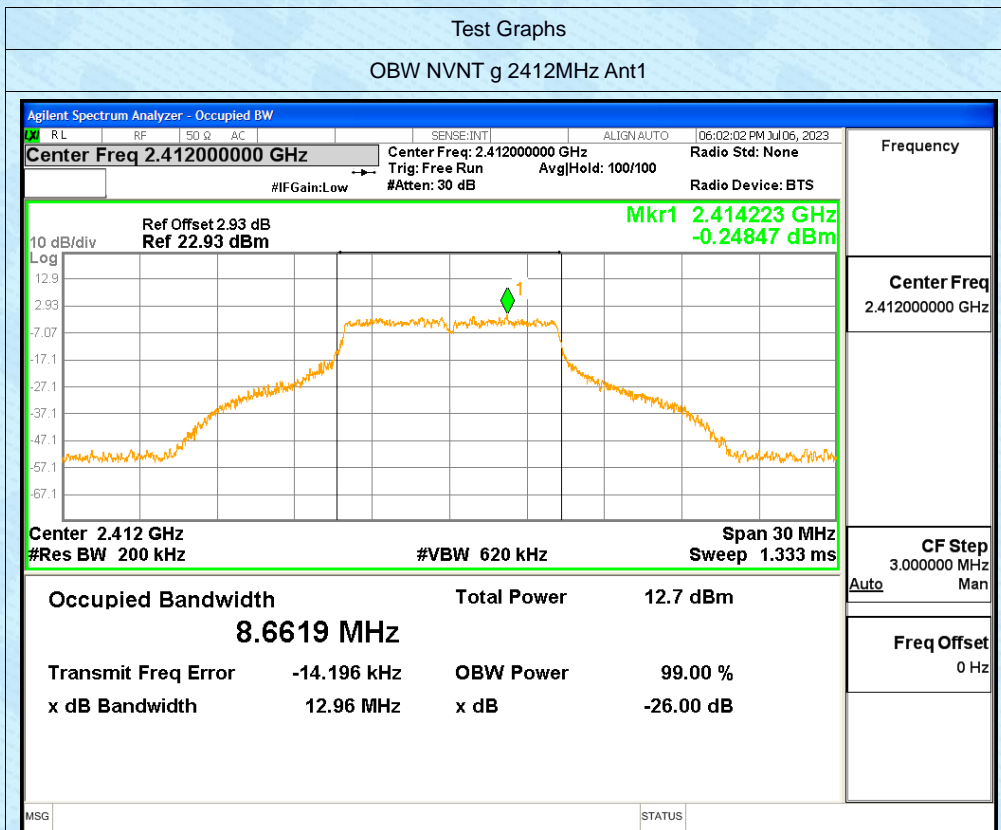


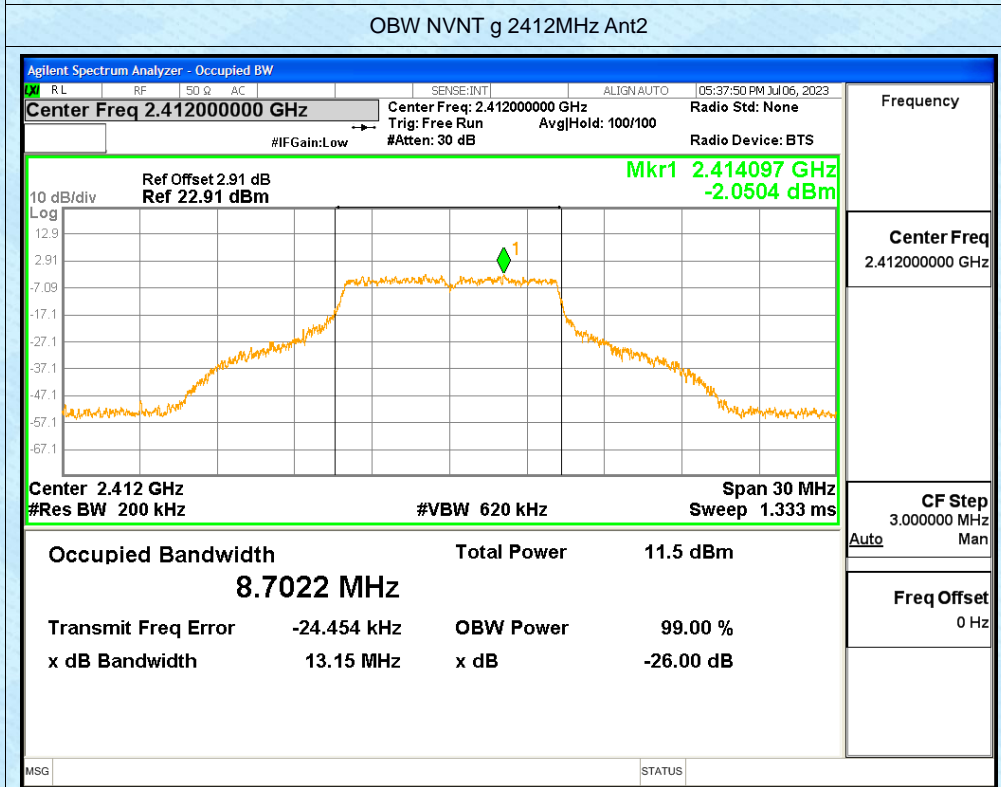
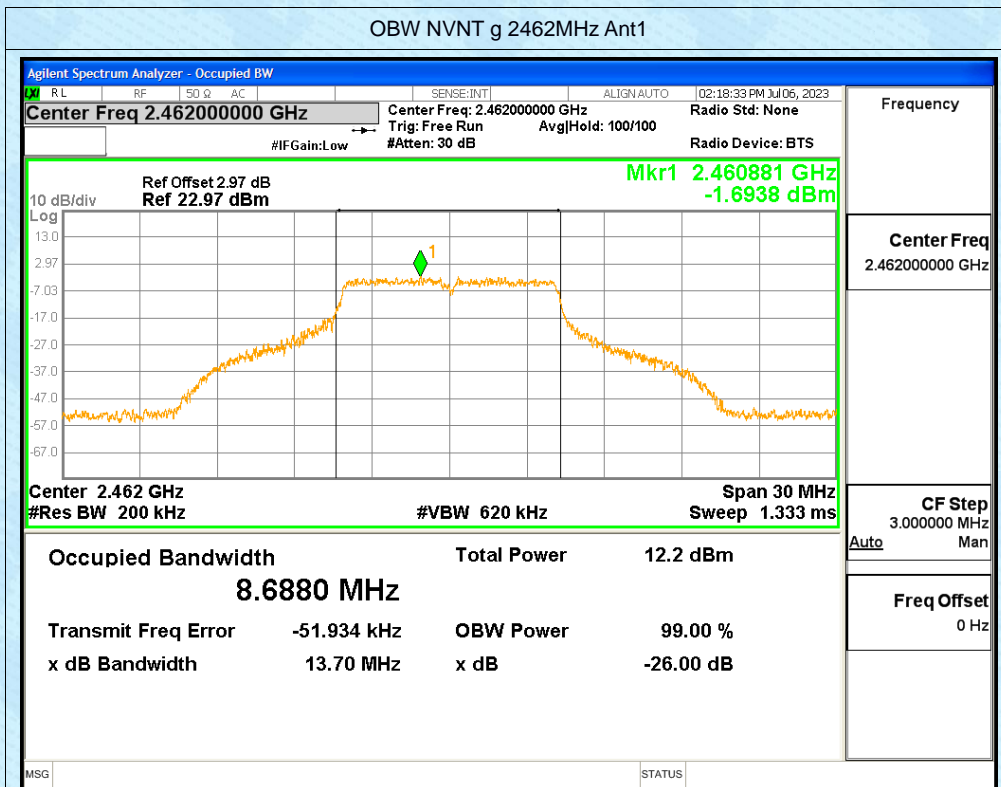


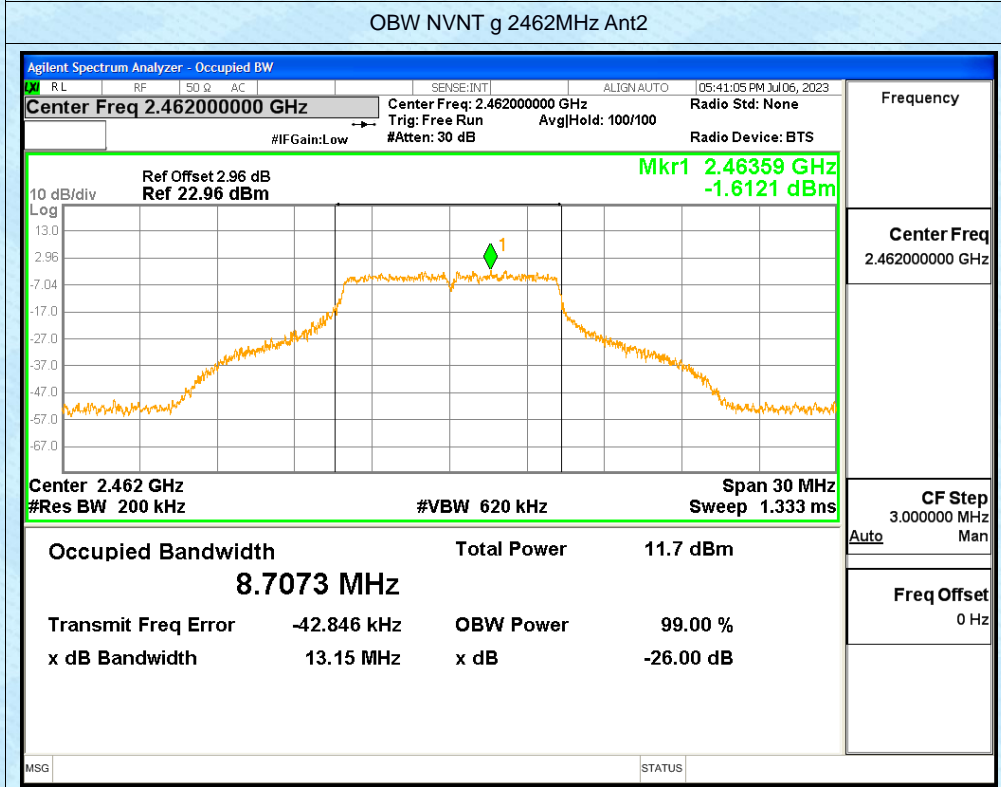
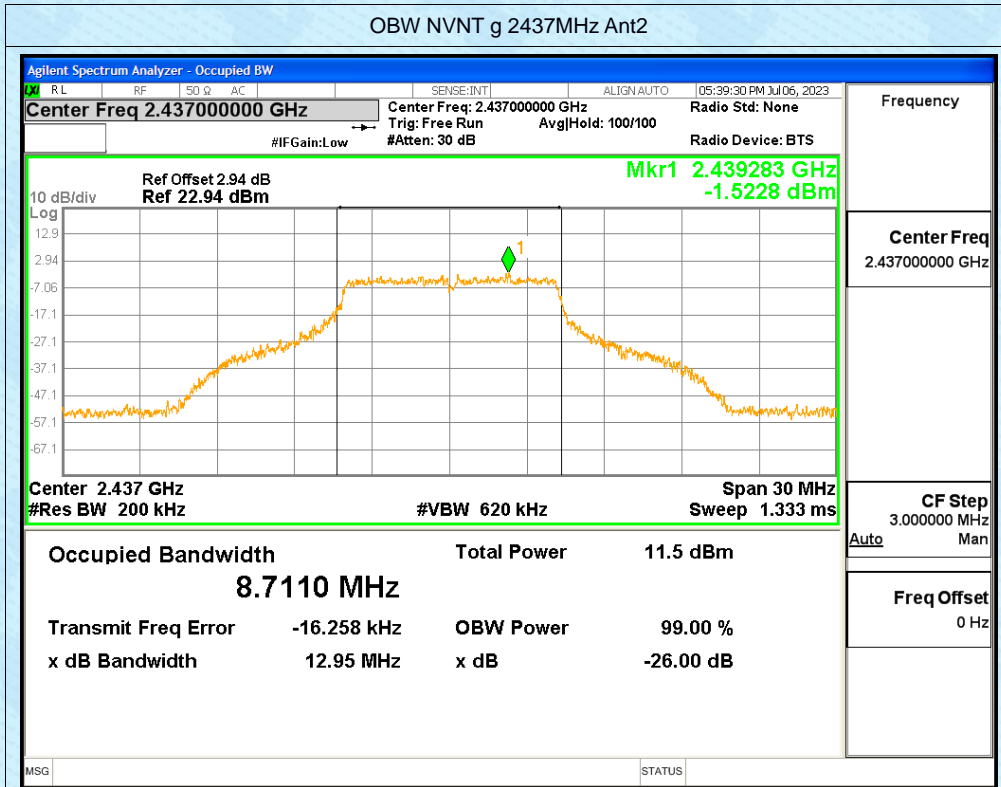


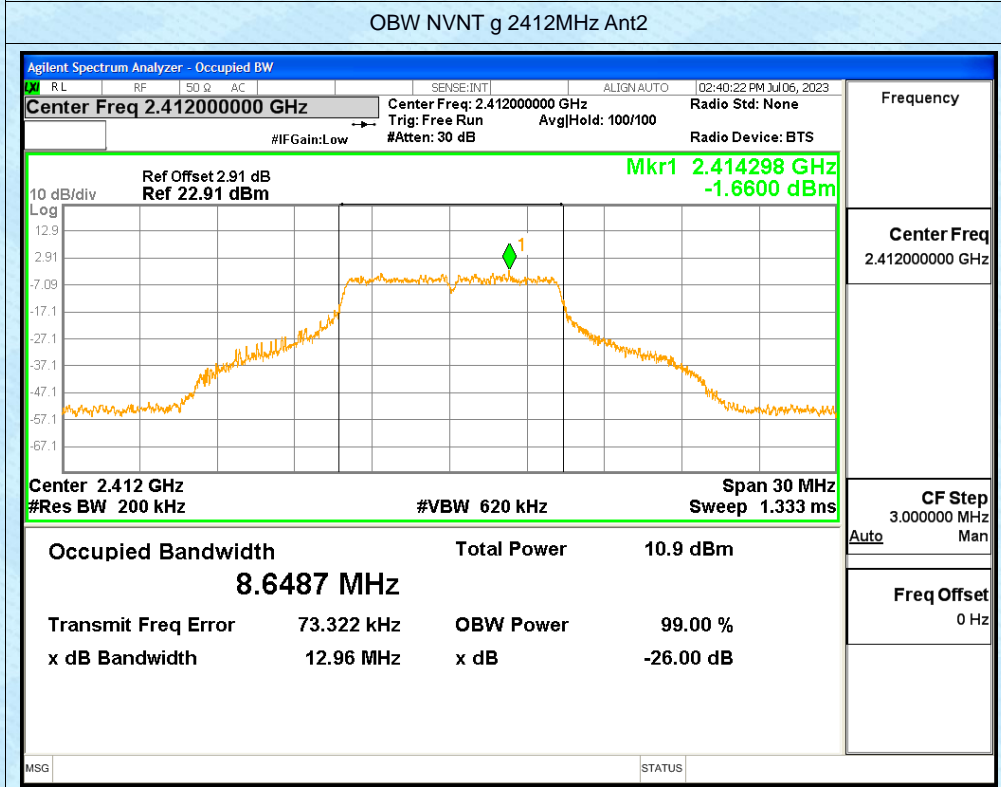
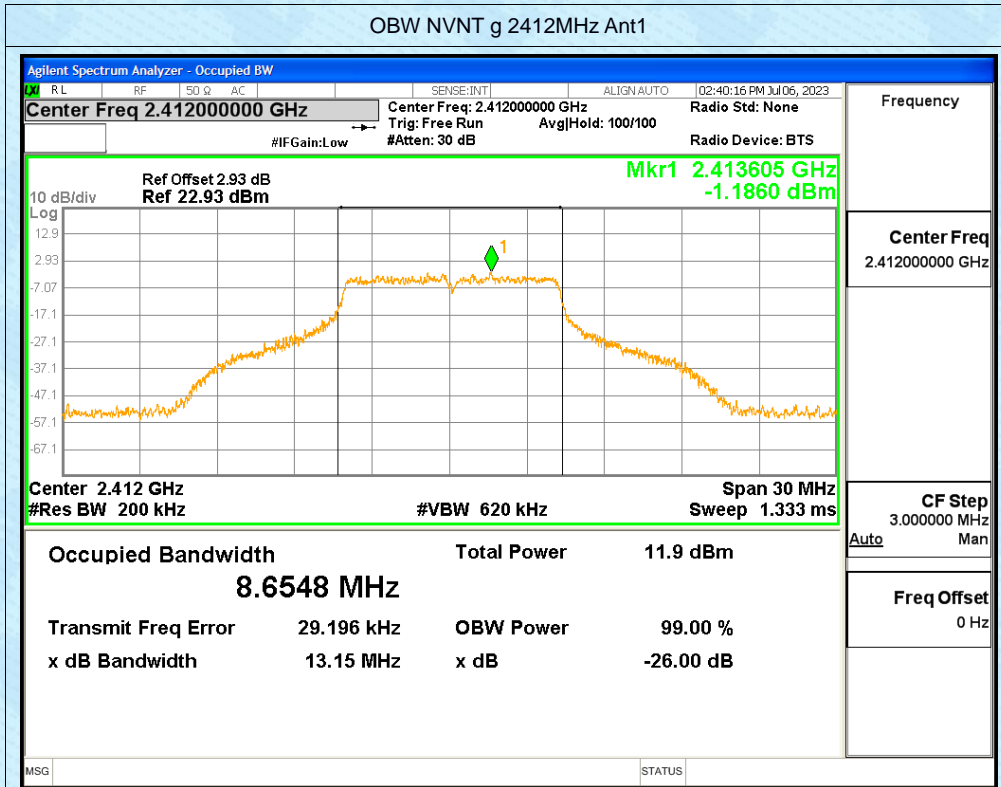
## Occupied Channel Bandwidth

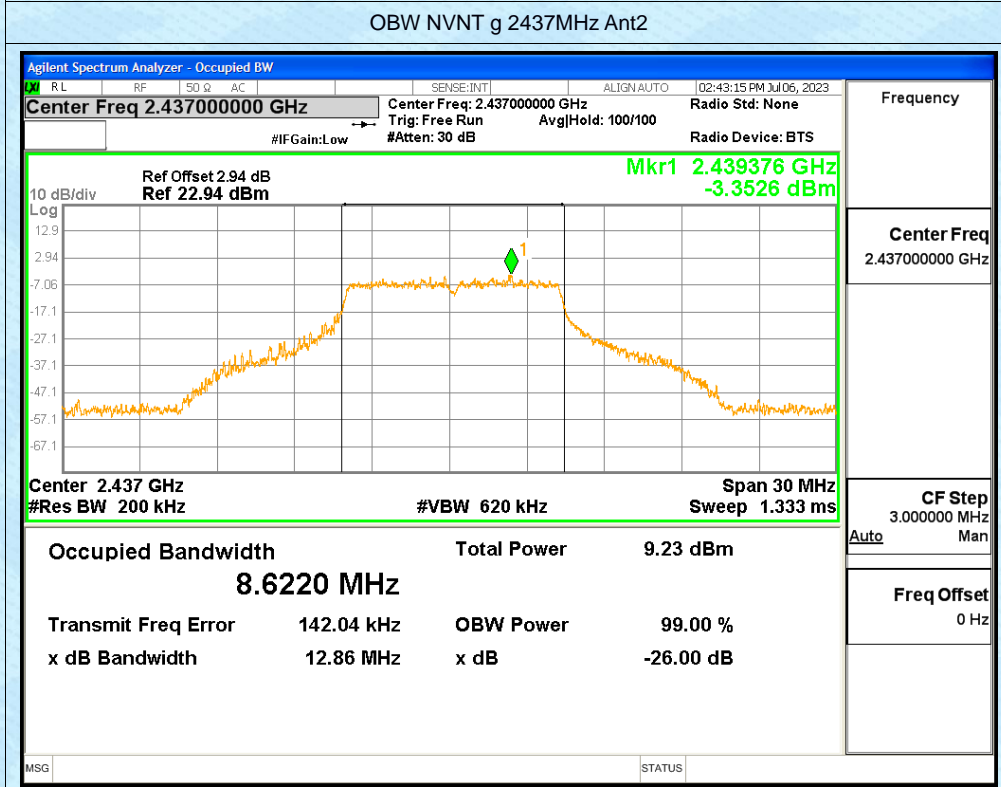
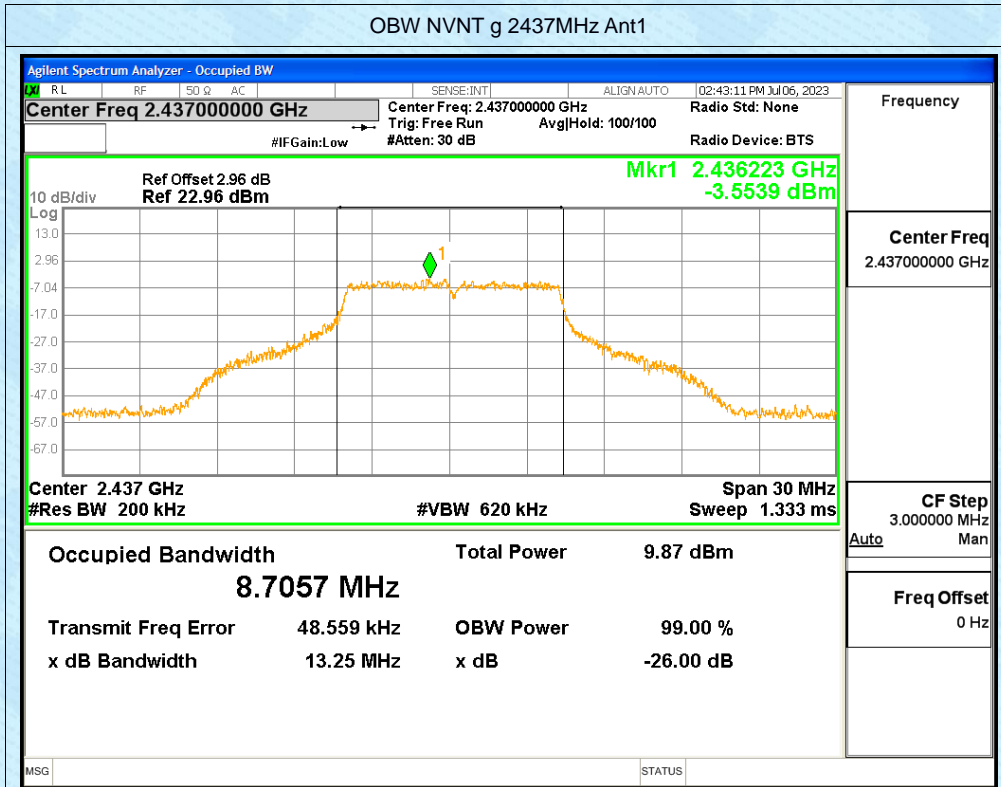
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	g	2412	Ant1	8.662
		2437		8.707
		2462		8.688
		2412	Ant2	8.702
		2437		8.711
		2462		8.707
		2412	Ant1	8.655
			Ant2	8.649
		2437	Ant1	8.706
			Ant2	8.622
		2462	Ant1	8.67
			Ant2	8.653
	n20	2412	Ant1	9.173
		2437		9.194
		2462		9.16
		2412	Ant2	9.125
		2437		9.141
		2462		9.168
		2412	Ant1	9.149
			Ant2	9.143
		2437	Ant1	9.17
			Ant2	9.155
		2462	Ant1	9.161
			Ant2	9.161

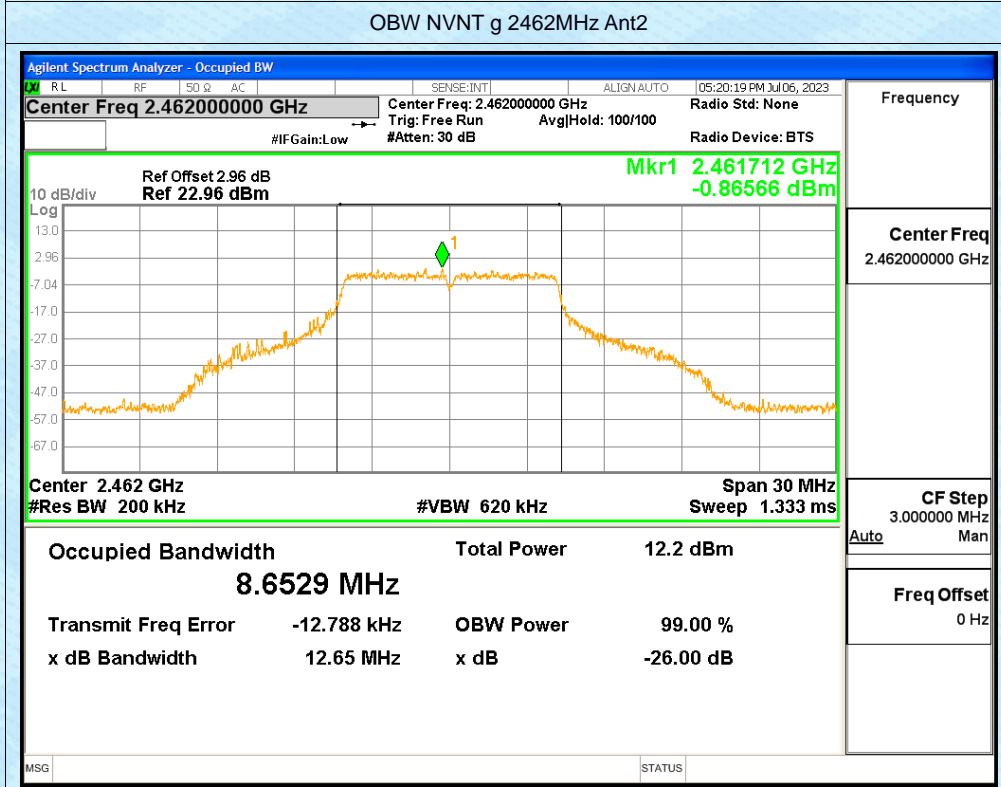
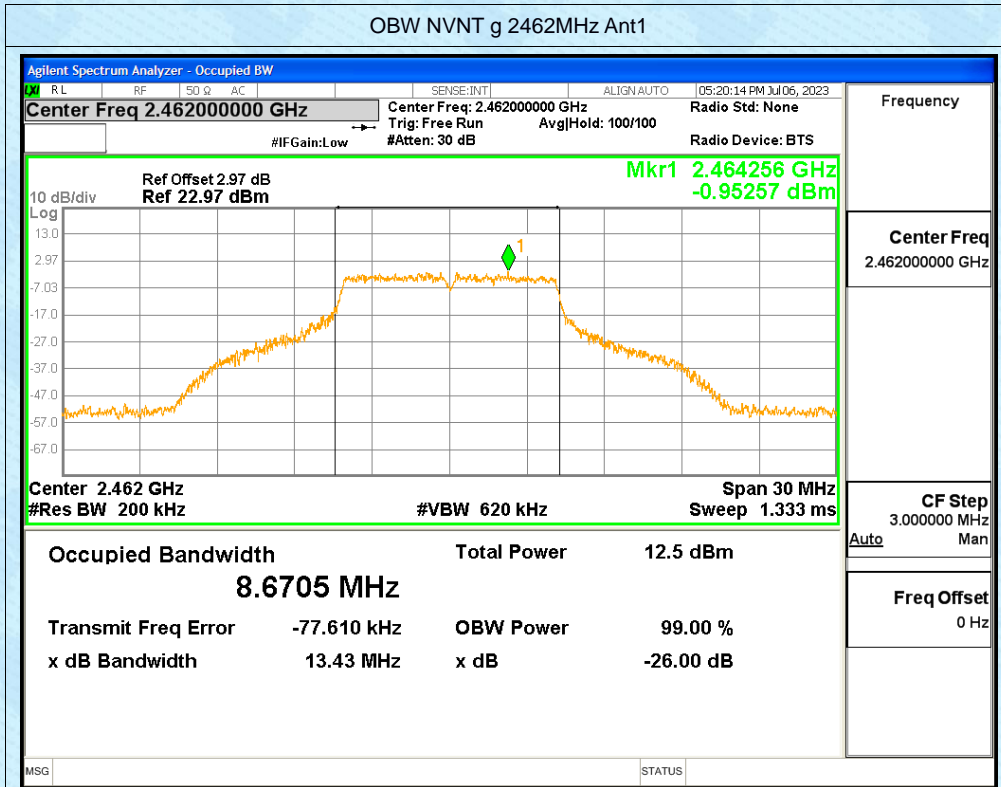


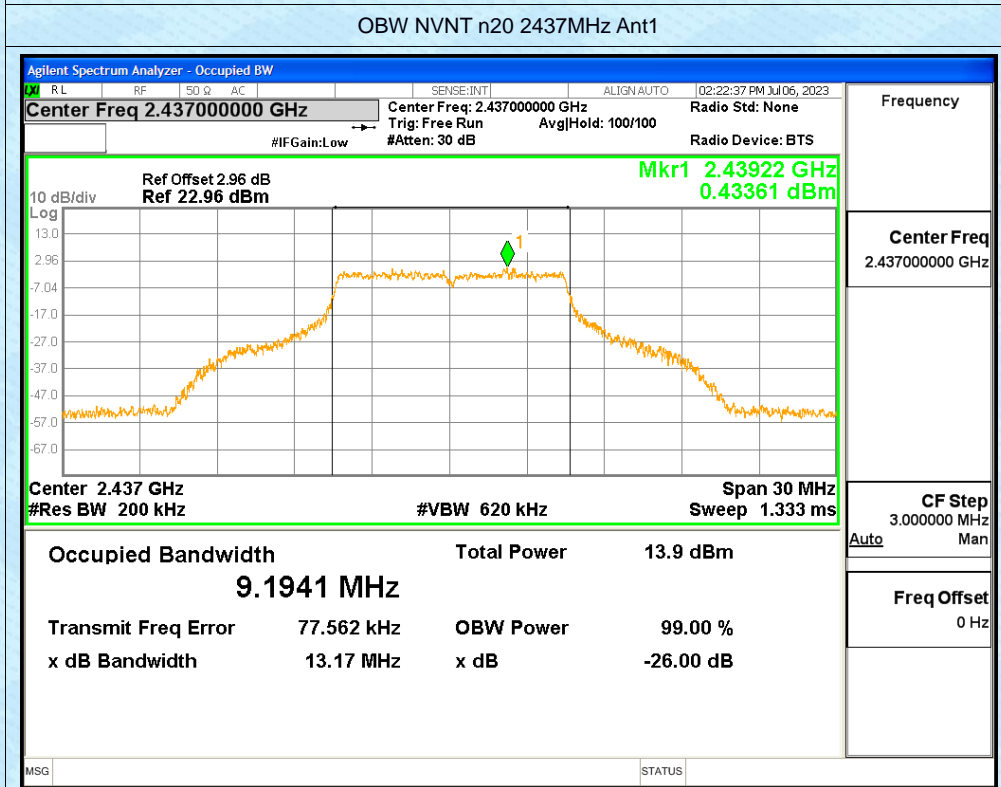
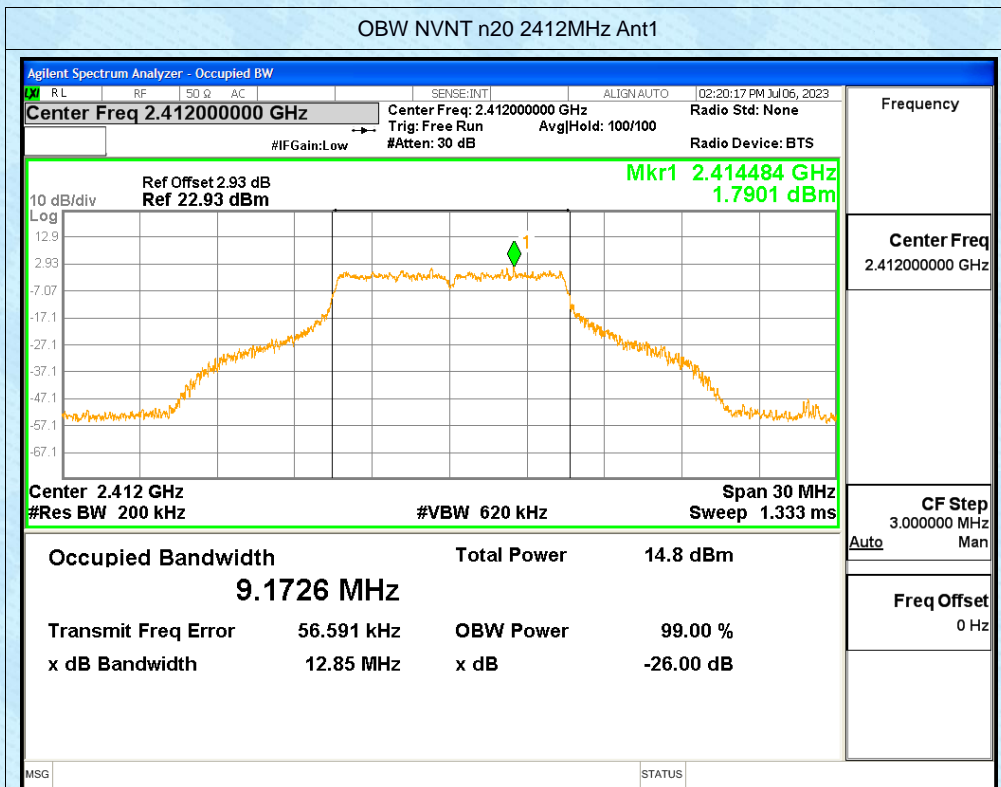




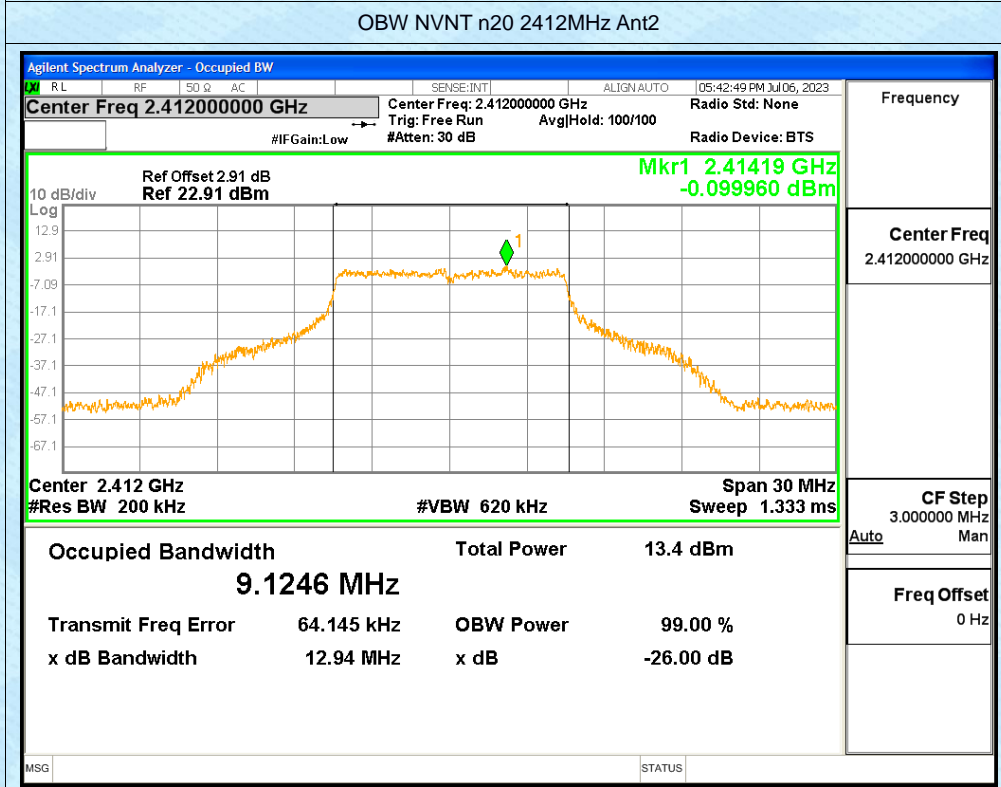
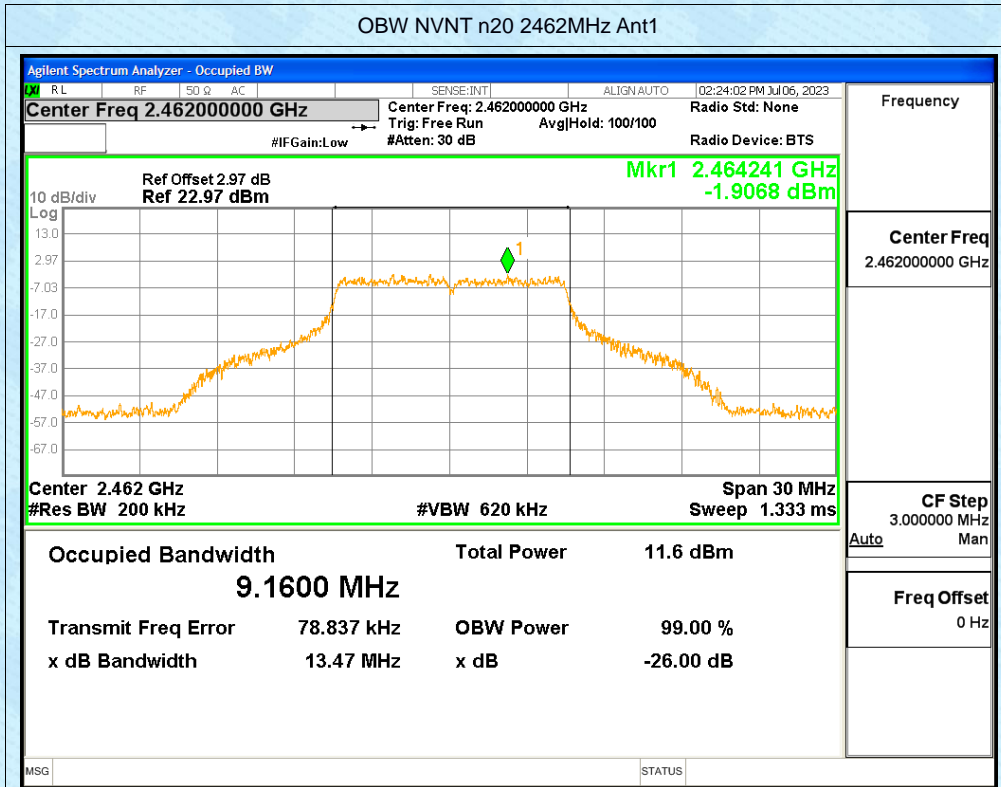


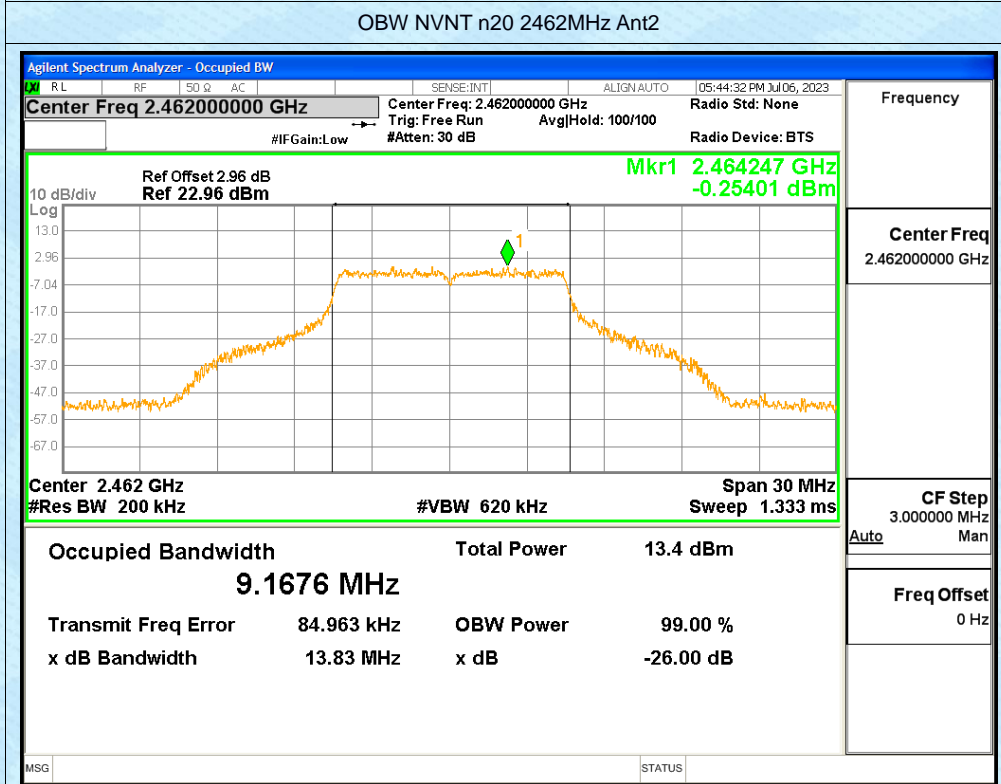
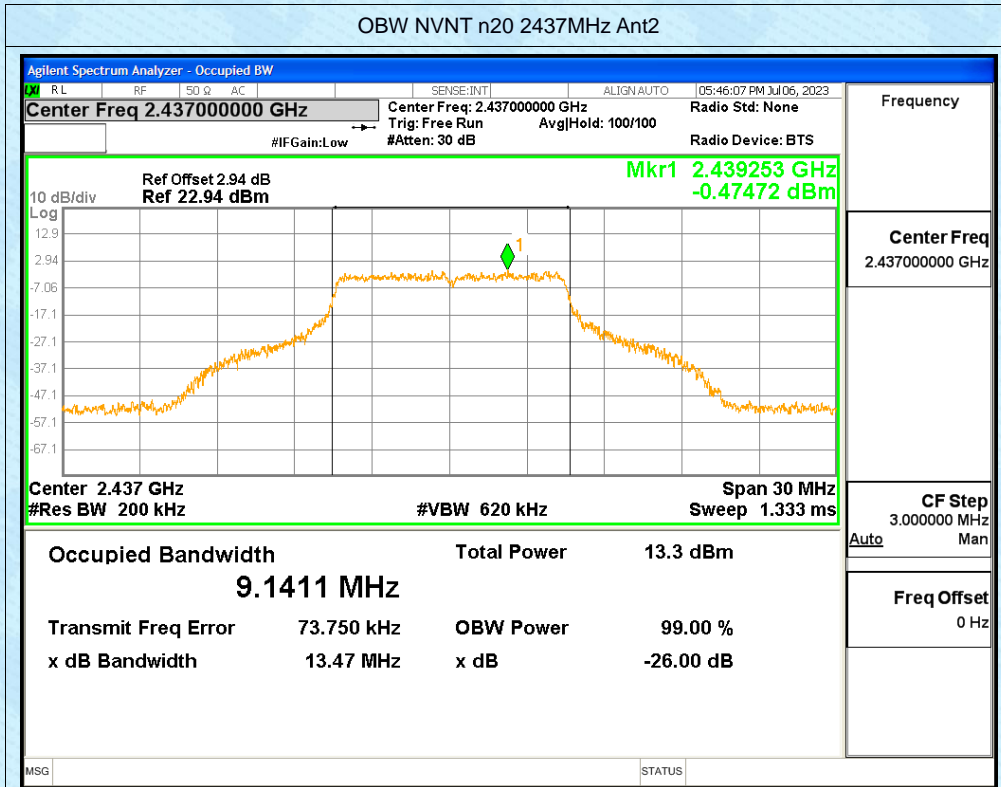


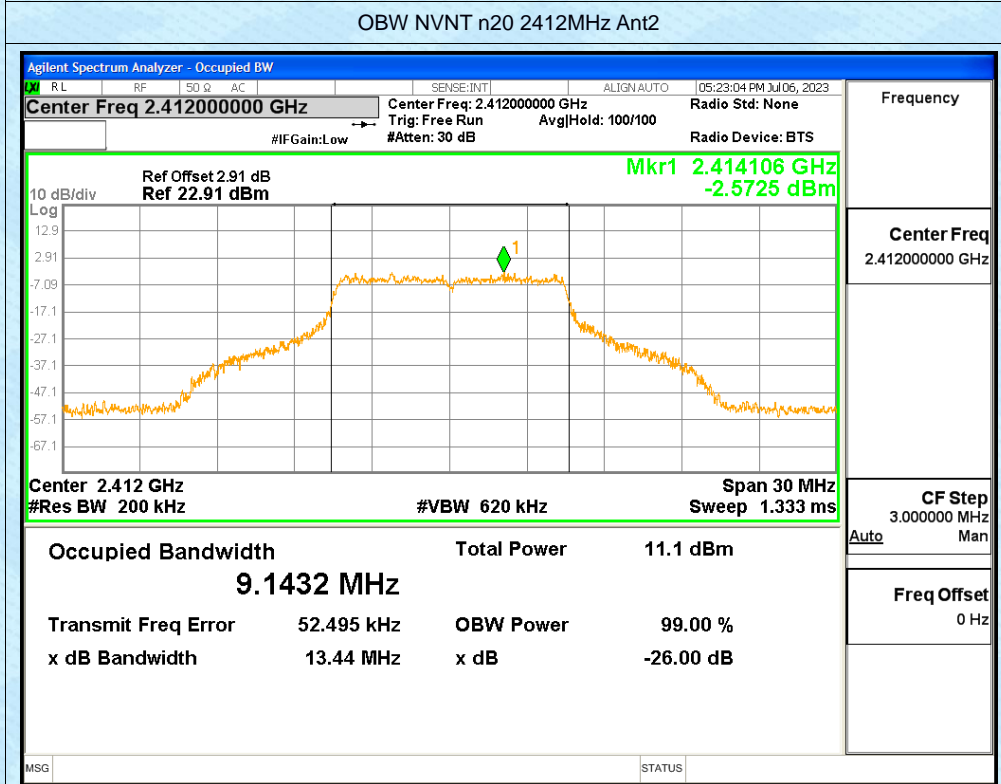
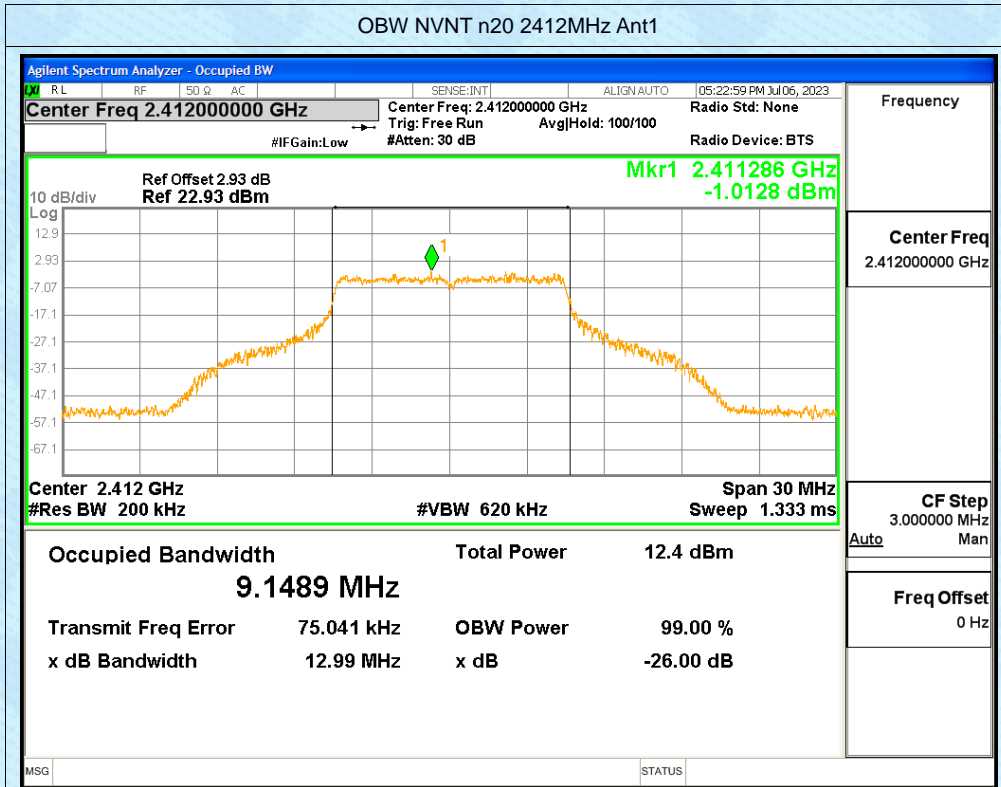


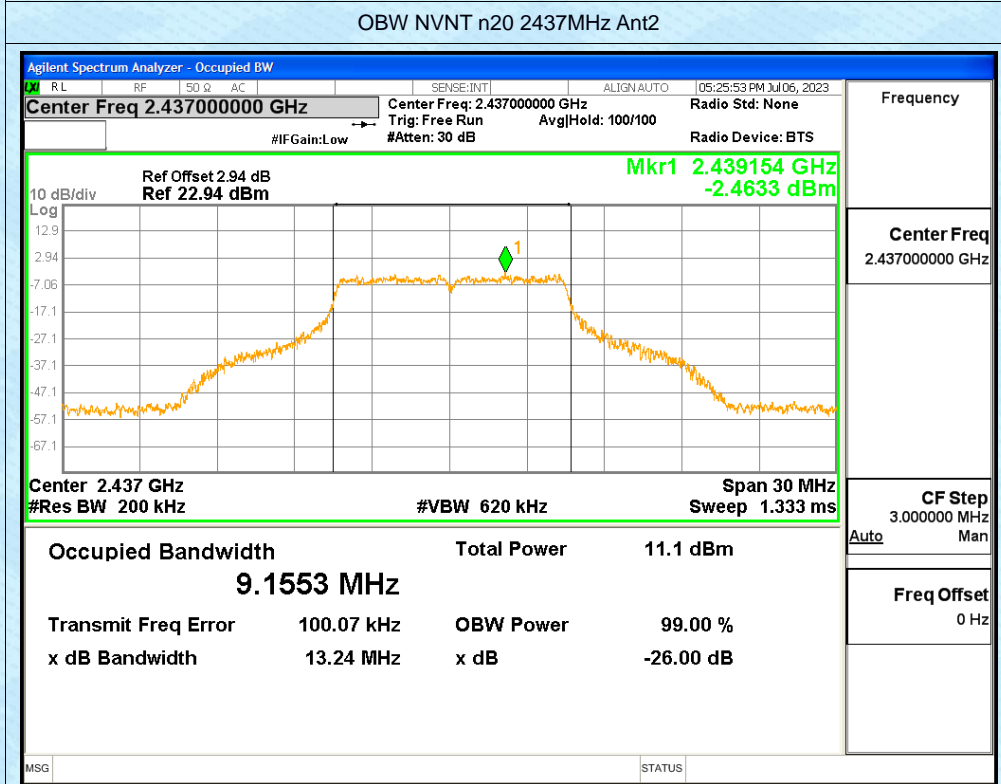
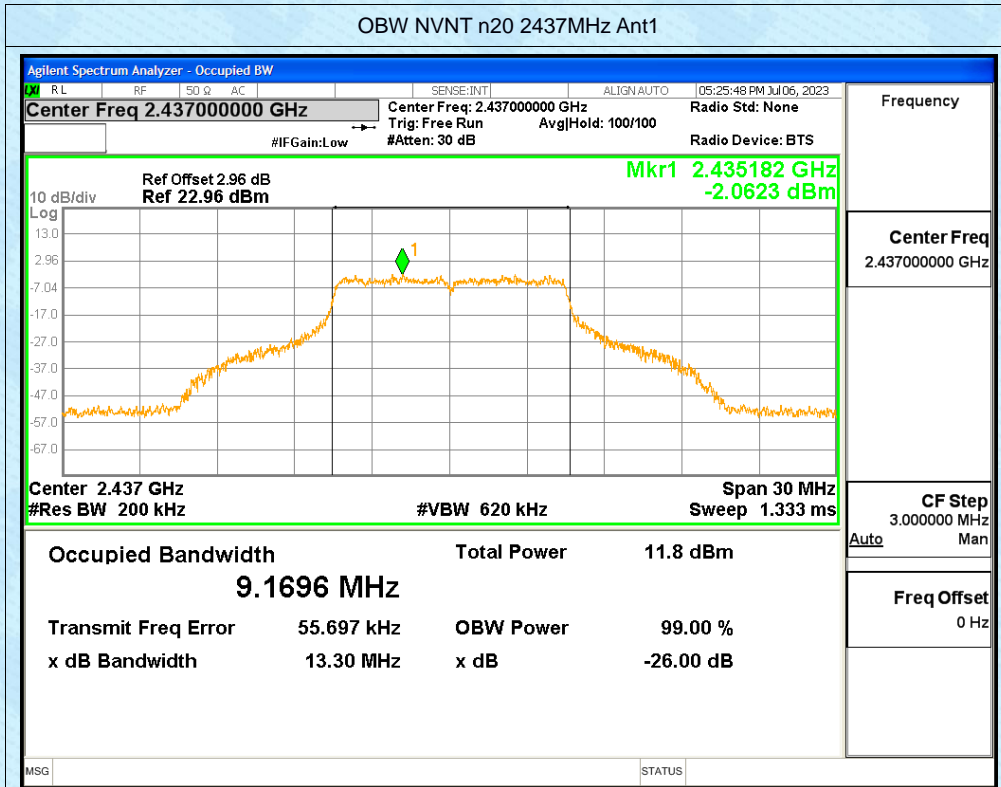


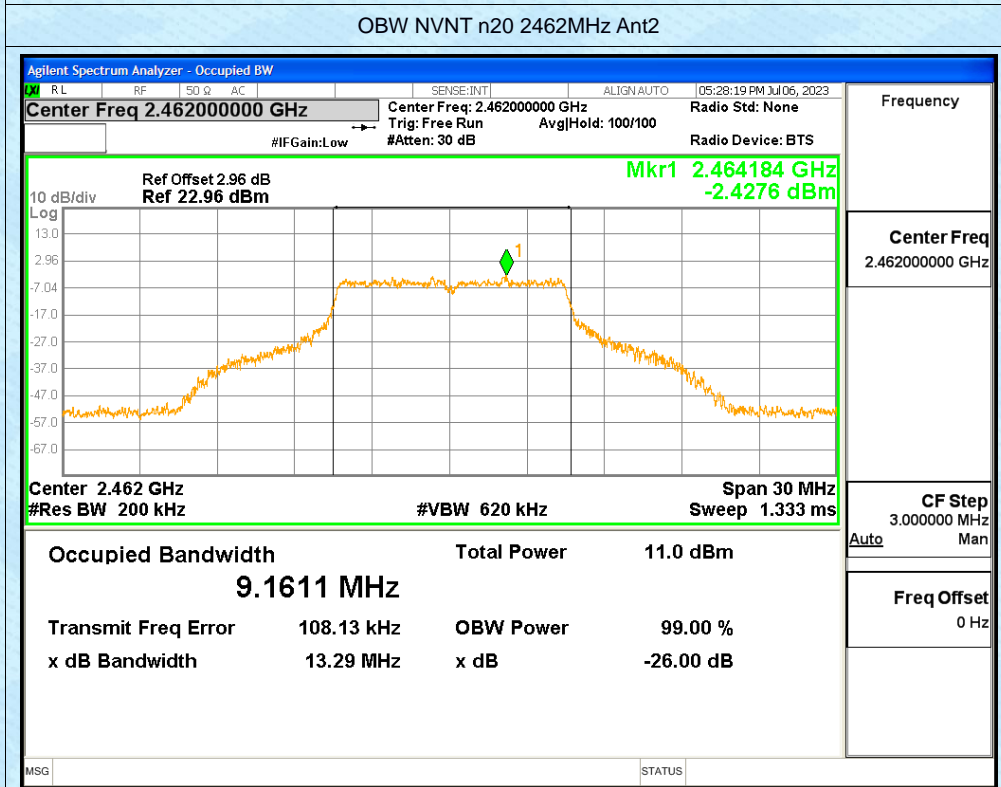
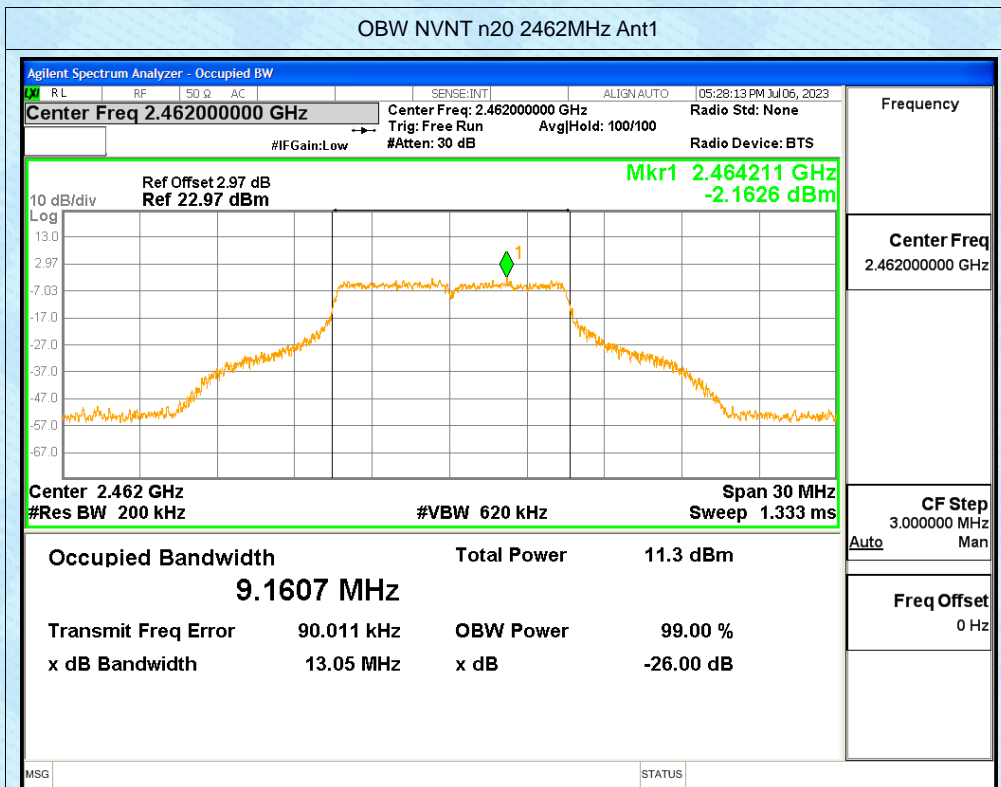












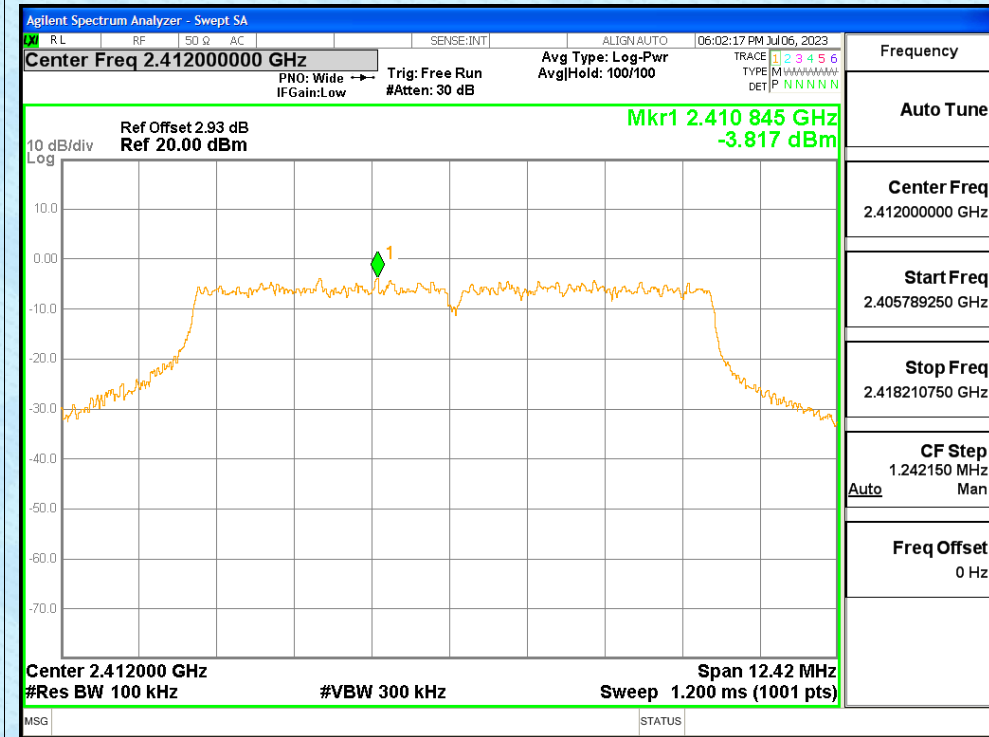
## Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict	
NVNT	g	2412	Ant1	-3.82	0	-3.82	8	Pass	
		2437		-3.5	0	-3.5	8	Pass	
		2462		-4.16	0	-4.16	8	Pass	
		2412	Ant2	-4.91	0	-4.91	8	Pass	
		2437		-4.72	0	-4.72	8	Pass	
		2462		-5.03	0	-5.03	8	Pass	
		2412	Ant1	-4.65	0	-4.65	8	Pass	
			Ant2	-5.43	0	-5.43	8	Pass	
		Sum		-2.01	0	-2.01	8	Pass	
			2437	Ant1	-6.69	0	-6.69	8	Pass
				Ant2	-7.32	0	-7.32	8	Pass
		Sum		-3.98	0	-3.98	8	Pass	
			2462	Ant1	-4.28	0	-4.28	8	Pass
				Ant2	-4.42	0	-4.42	8	Pass
		Sum		-1.34	0	-1.34	8	Pass	
	n20		Ant1	2412	-1.67	0	-1.67	8	Pass
				2437	-2.45	0	-2.45	8	Pass
		2462		-5.04	0	-5.04	8	Pass	
	2412	Ant2		-3.35	0	-3.35	8	Pass	
				-3.59	0	-3.59	8	Pass	
				-3	0	-3	8	Pass	
	2412	Ant1	-4.19	0	-4.19	8	Pass		
		Ant2	-5.77	0	-5.77	8	Pass		
		Sum	-1.9	0	-1.9	8	Pass		
	2437	Ant1	-4.46	0	-4.46	8	Pass		
		Ant2	-5.51	0	-5.51	8	Pass		
		Sum	-1.94	0	-1.94	8	Pass		
	2462	Ant1	-5.8	0	-5.8	8	Pass		
		Ant2	-5.62	0	-5.62	8	Pass		
		Sum	-2.7	0	-2.7	8	Pass		

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

### Test Graphs

#### PSD NVNT g 2412MHz Ant1



#### PSD NVNT g 2437MHz Ant1

