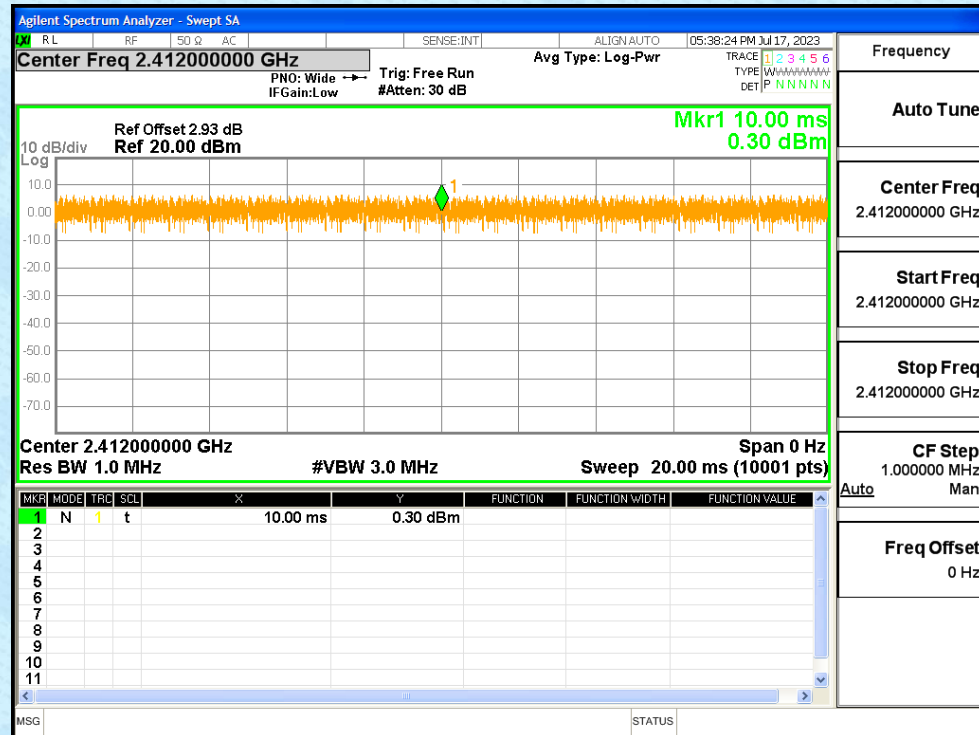


Duty Cycle

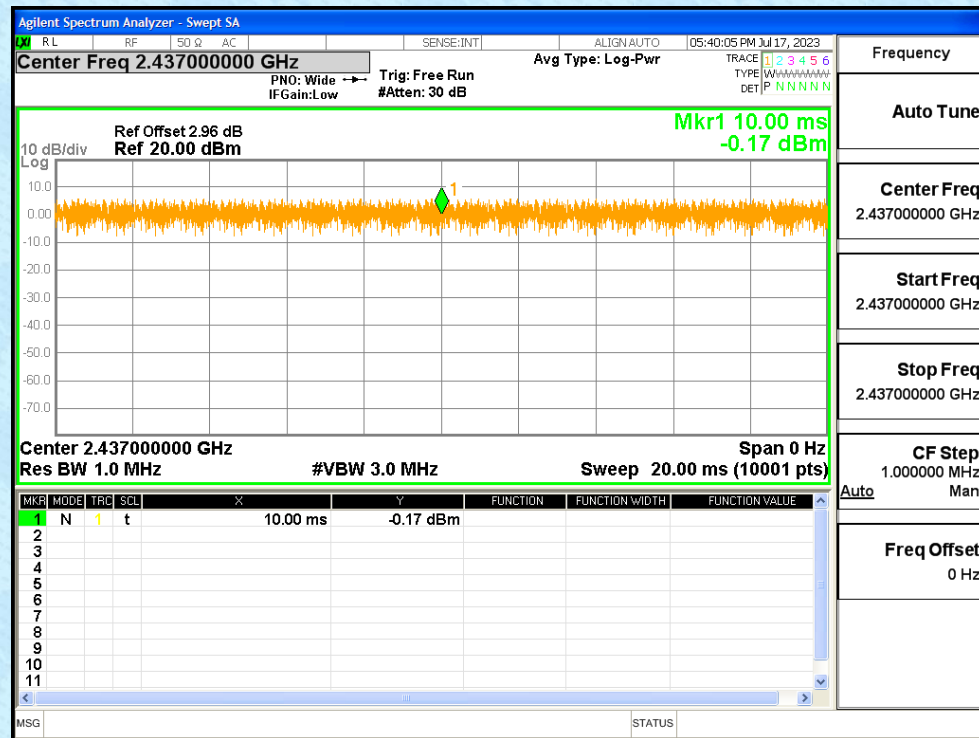
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	g	2412	Ant1	100	0	0
		2437		100	0	0
		2462		100	0	0
		2412	Ant2	100	0	0
		2437		100	0	0
		2462		100	0	0
		2412	Sum	100	0	0
		2437		100	0	0
		2462		100	0	0
	n20	2412	Ant1	100	0	0
		2437		100	0	0
		2462		100	0	0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

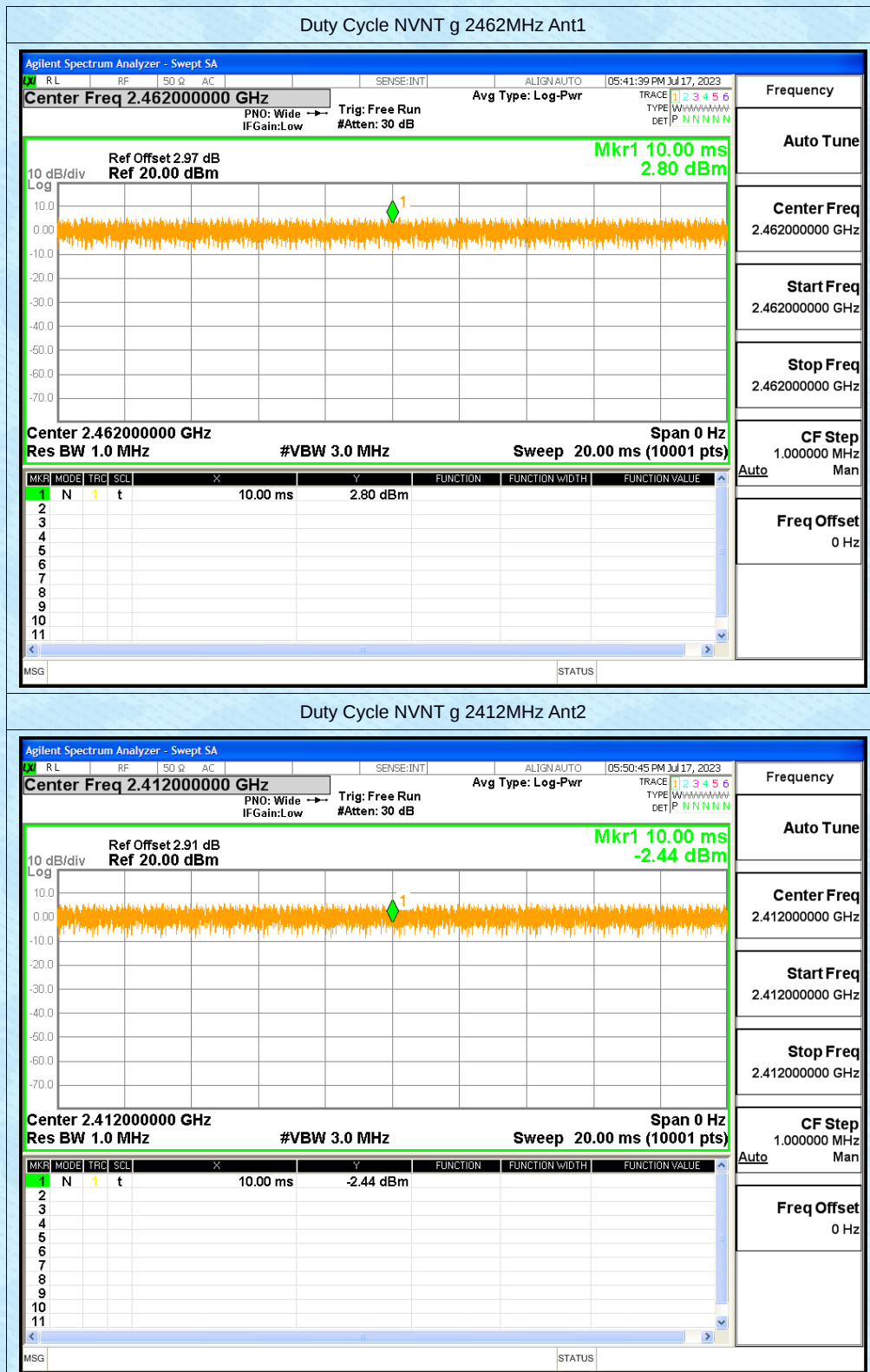
Test Graphs

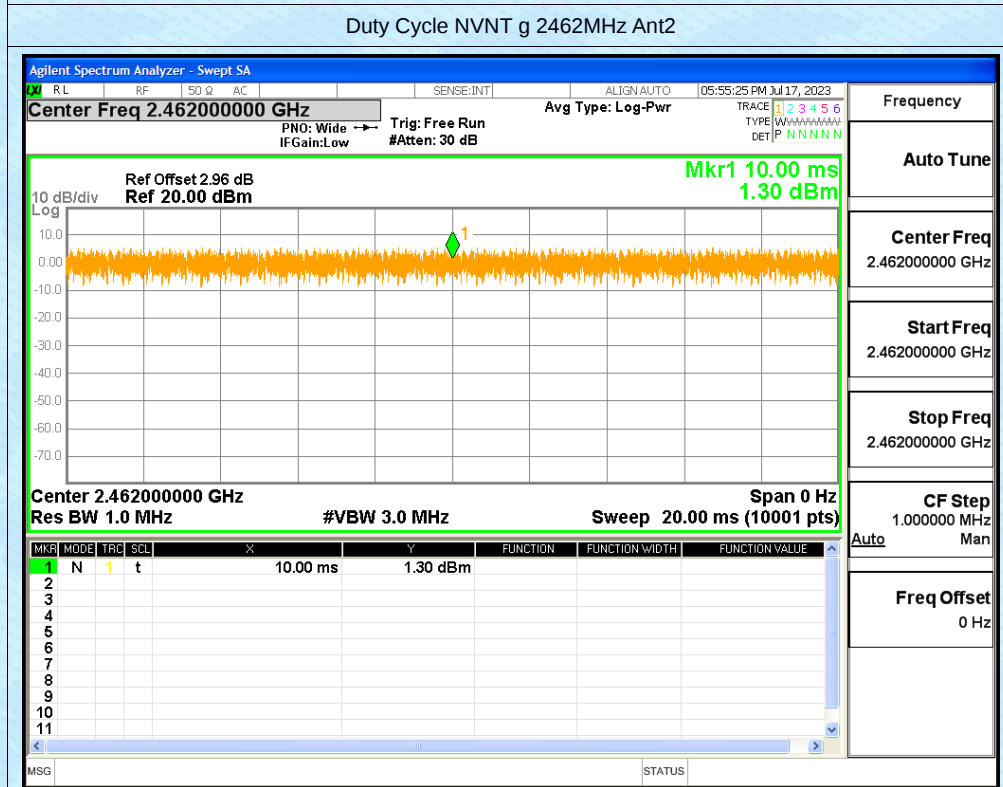
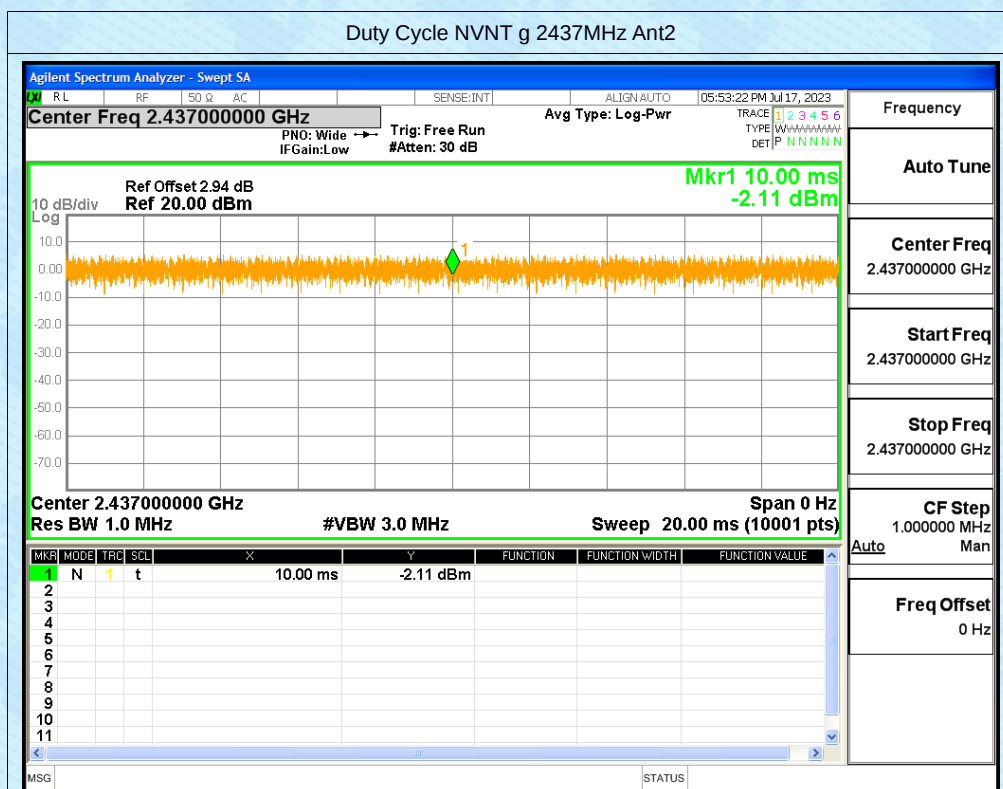
Duty Cycle NVNT g 2412MHz Ant1



Duty Cycle NVNT g 2437MHz Ant1

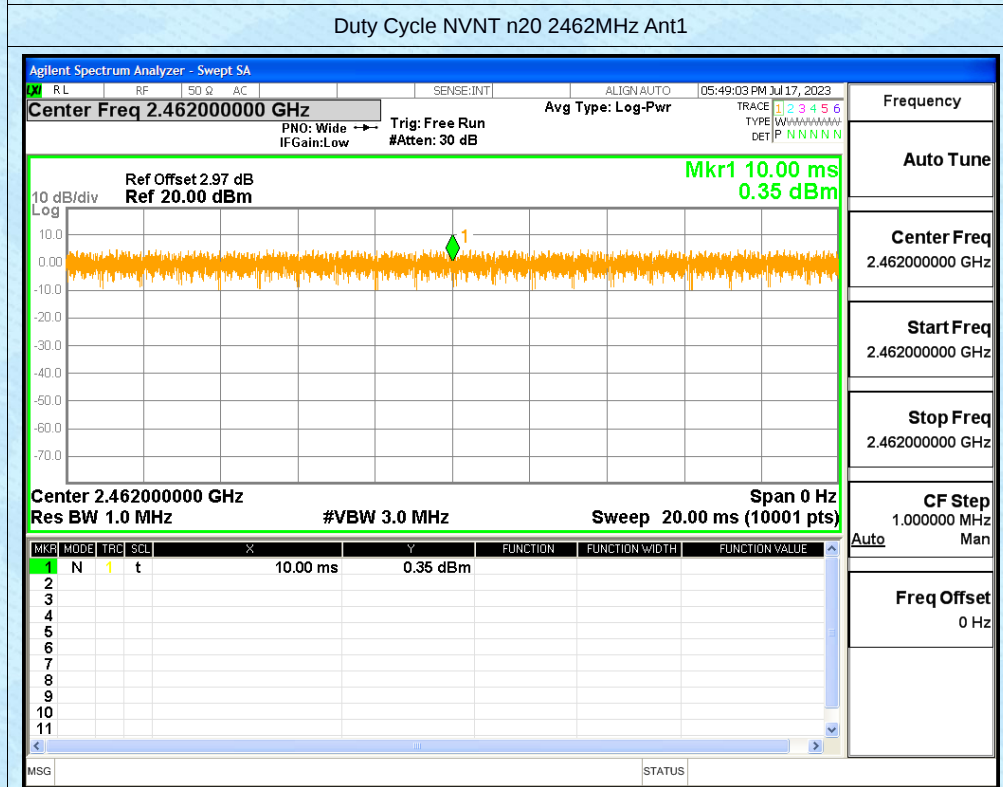
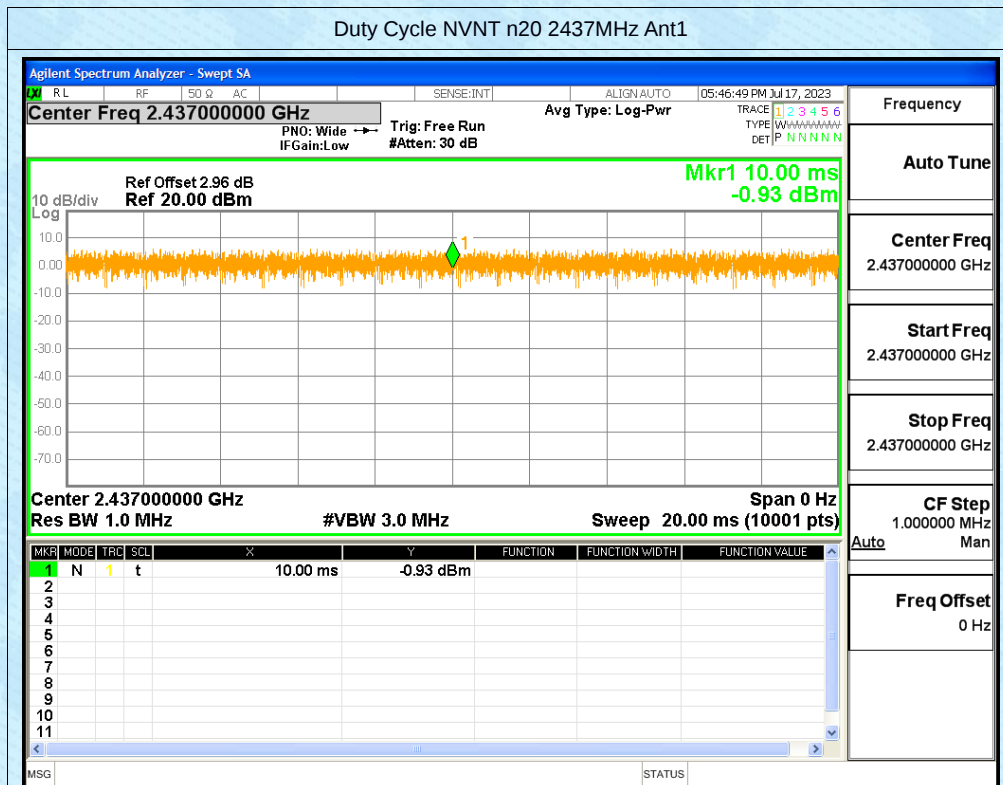


















Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	g	2412	Ant1	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,

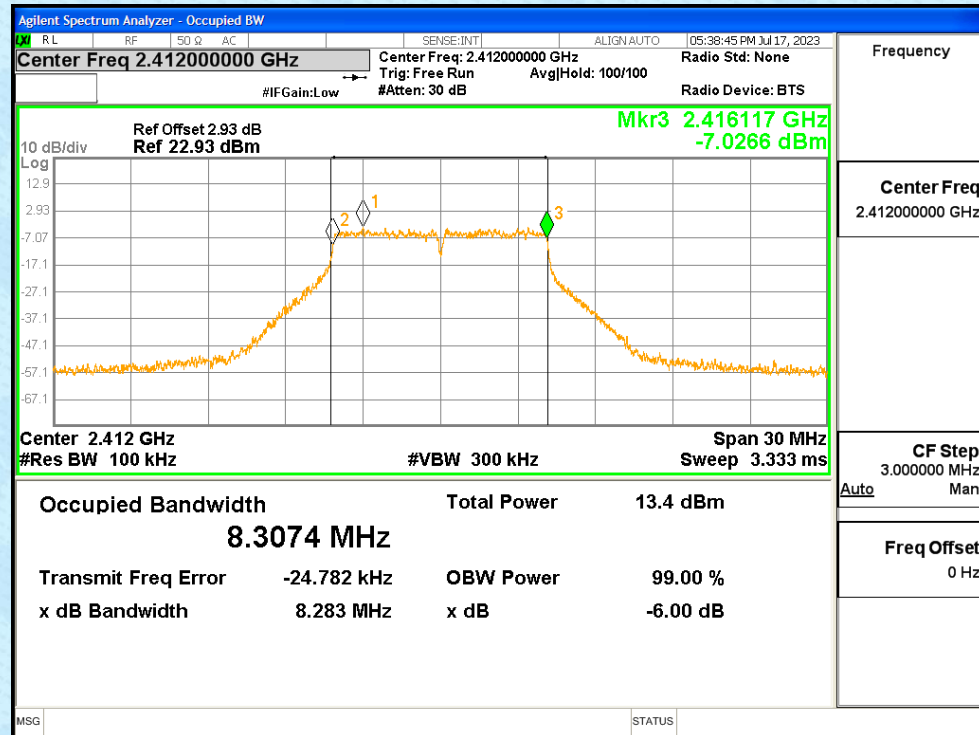
Directional gain=10 x log[(2/20+ 2/20)2/2]=5.01dBi

-6dB Bandwidth

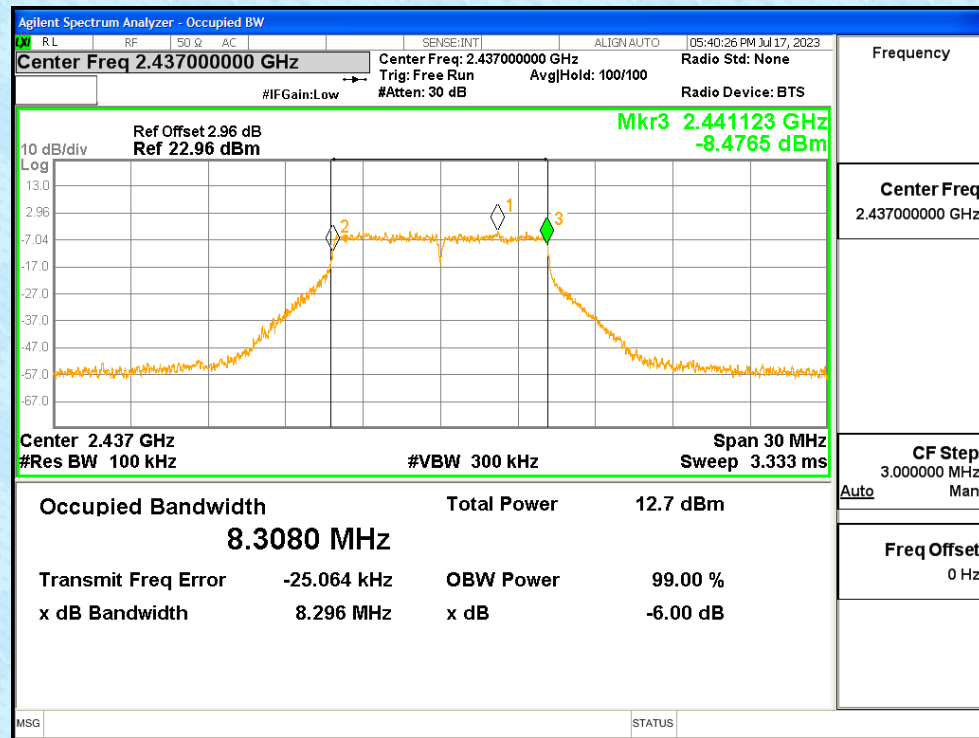
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	g	2412	Ant1	8.283	0.5	Pass
		2437		8.296	0.5	Pass
		2462		8.316	0.5	Pass
		2412	Ant2	8.295	0.5	Pass
		2437		8.285	0.5	Pass
		2462		8.297	0.5	Pass
		2412	Ant1	8.278	0.5	Pass
			Ant2	8.289	0.5	Pass
		2437	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

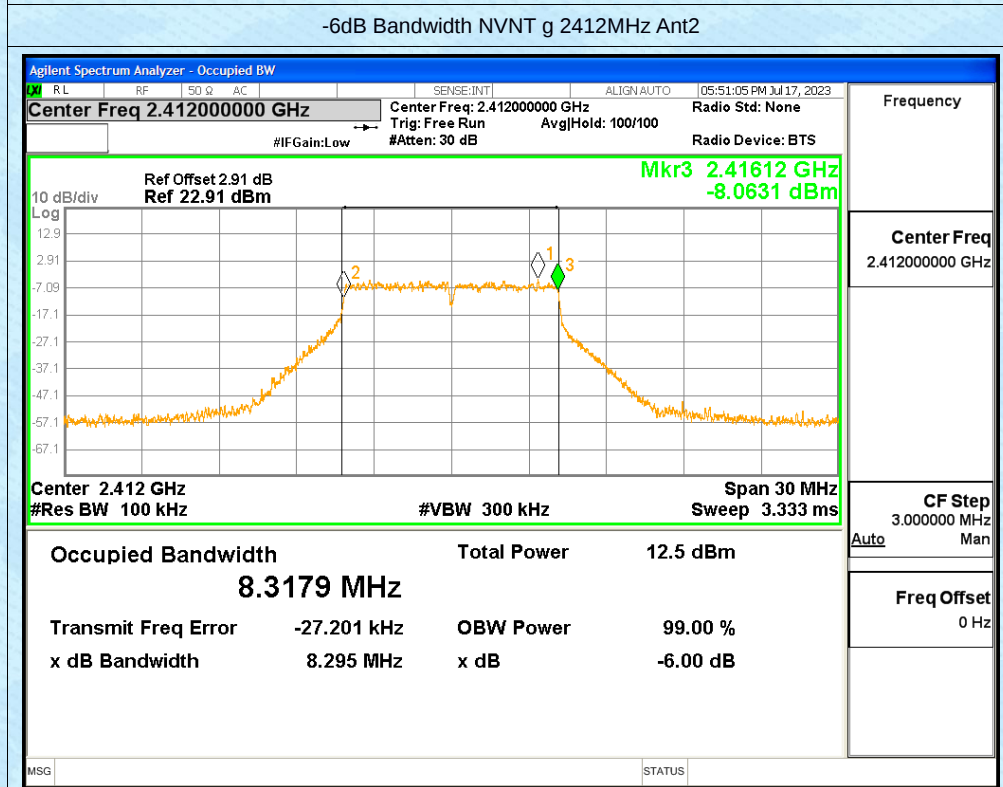
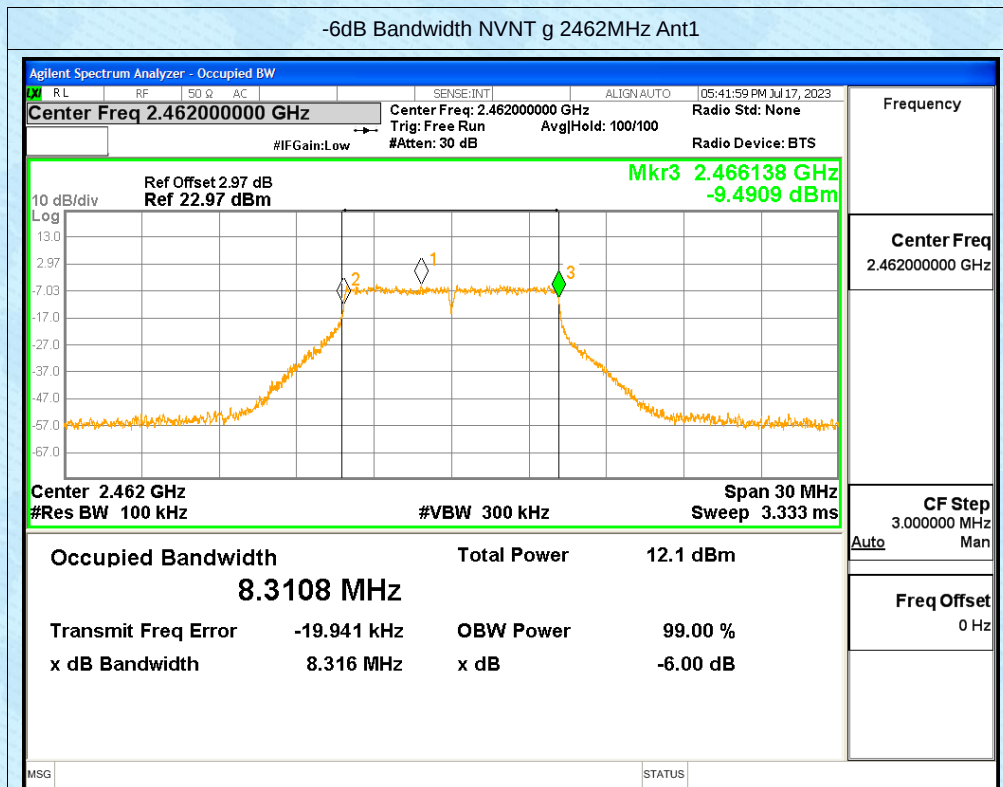
Test Graphs

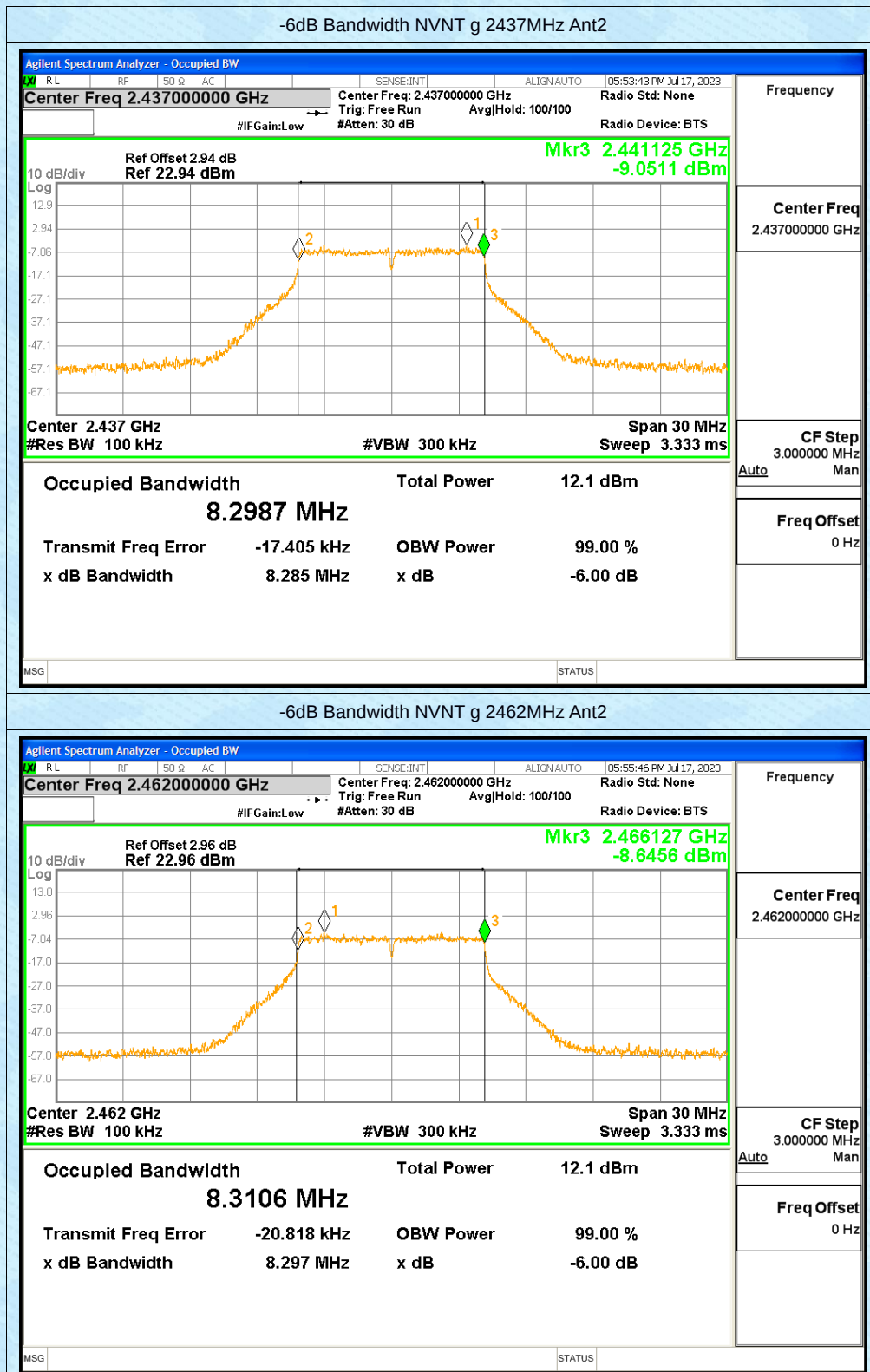
-6dB Bandwidth NVNT g 2412MHz Ant1

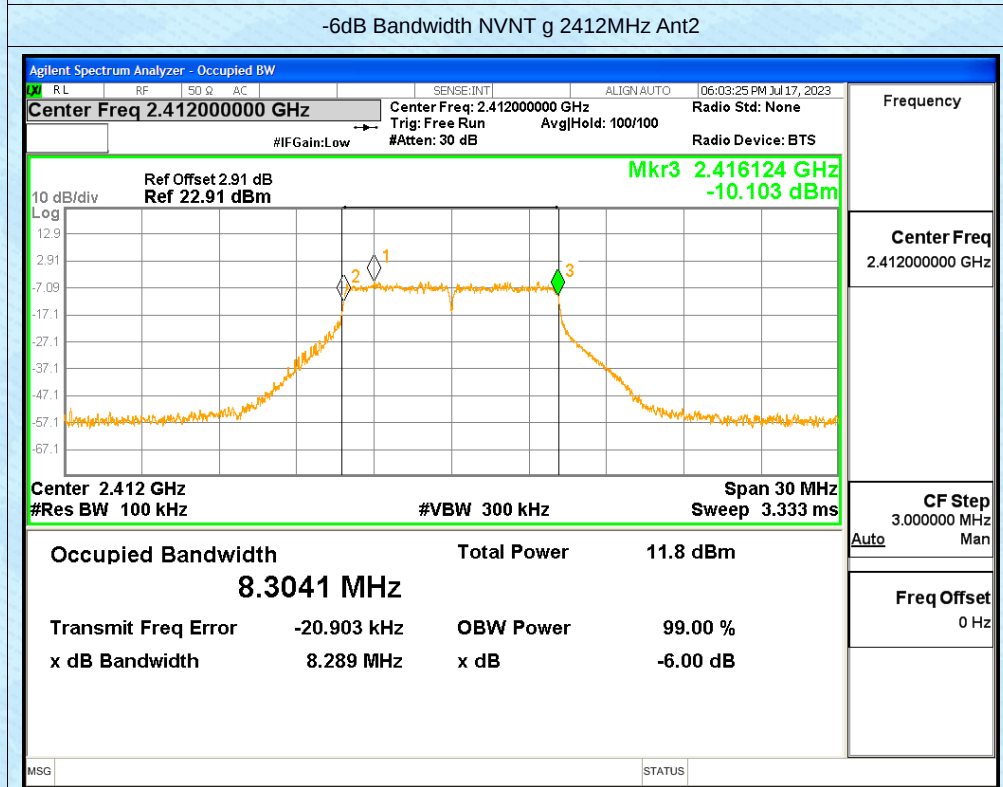
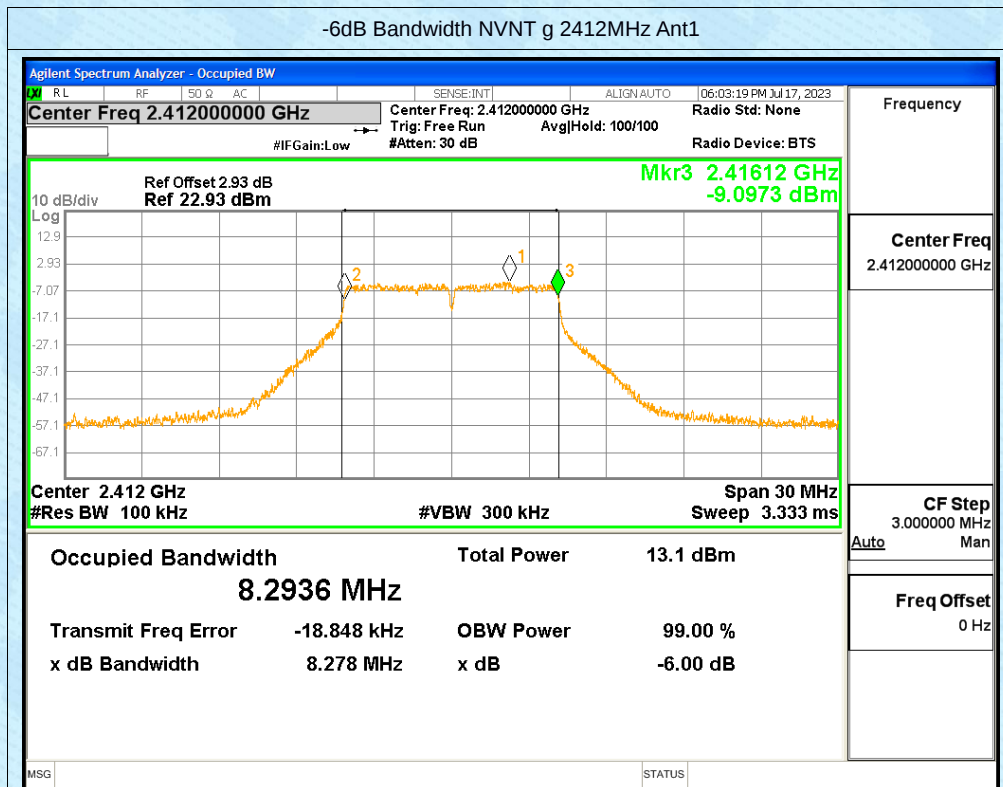


-6dB Bandwidth NVNT g 2437MHz Ant1

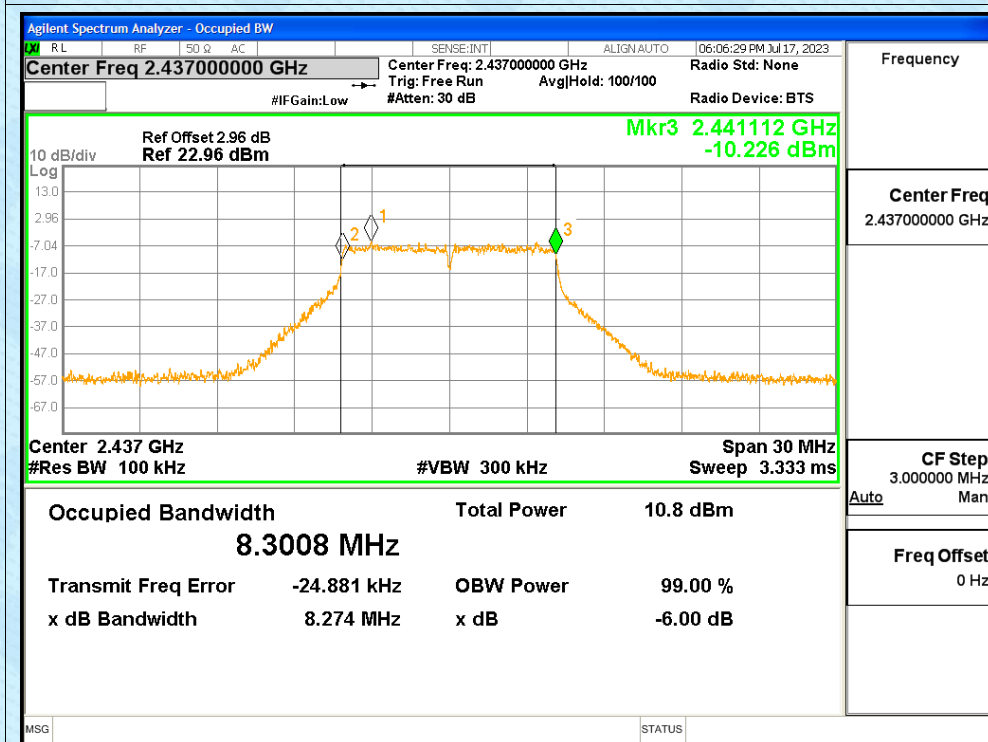




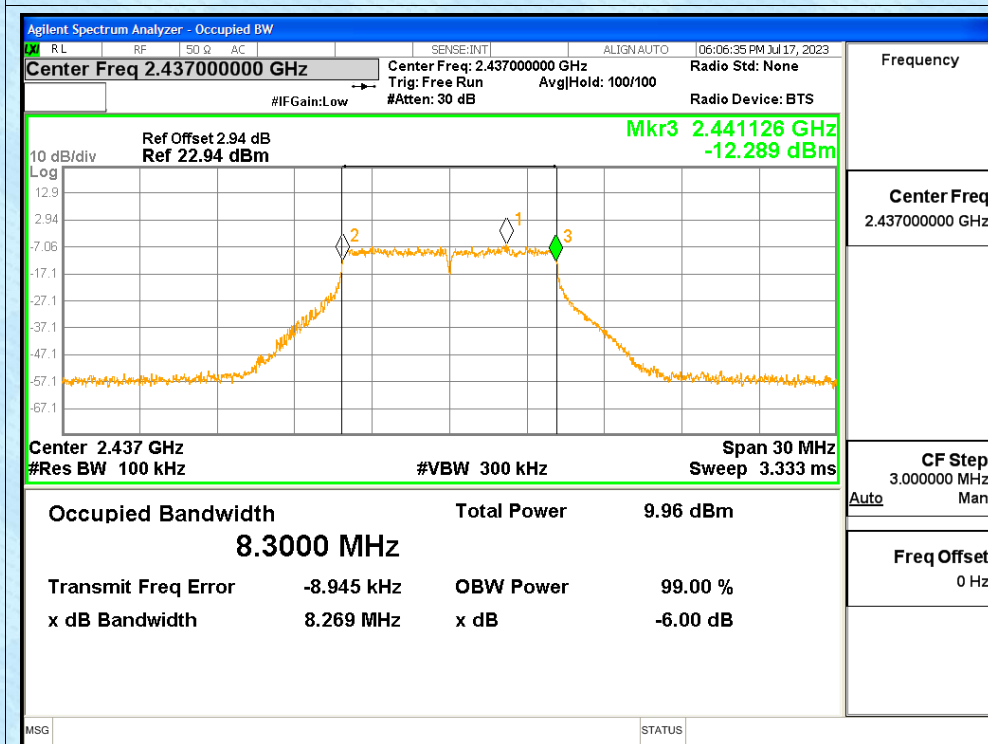


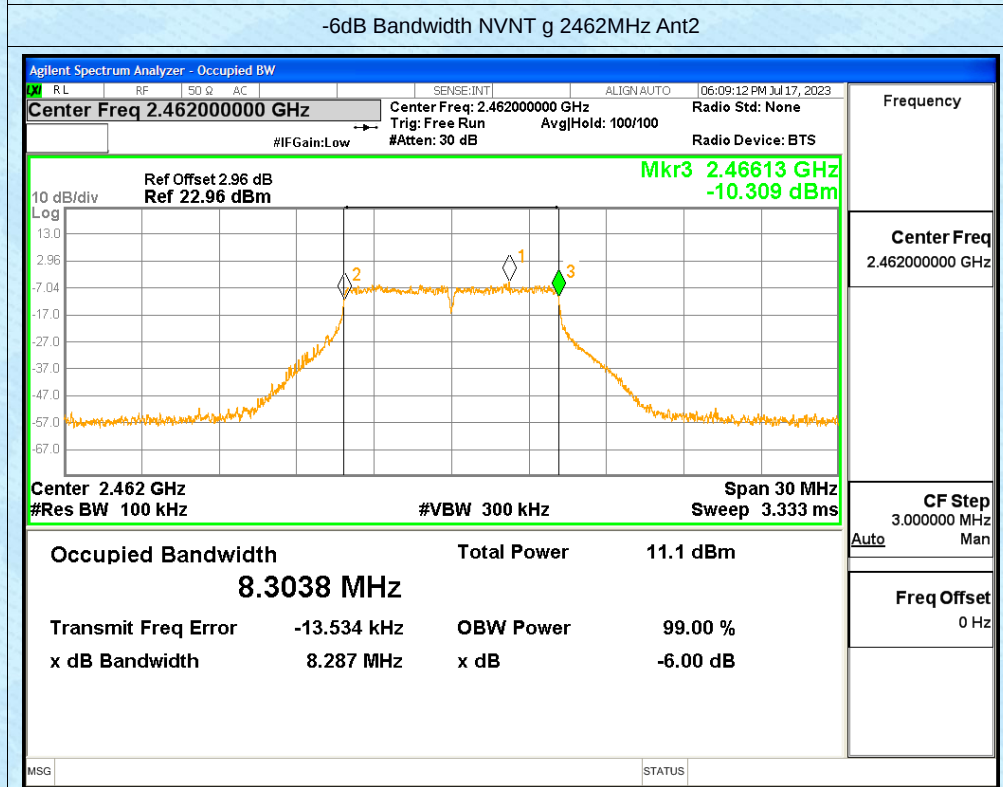
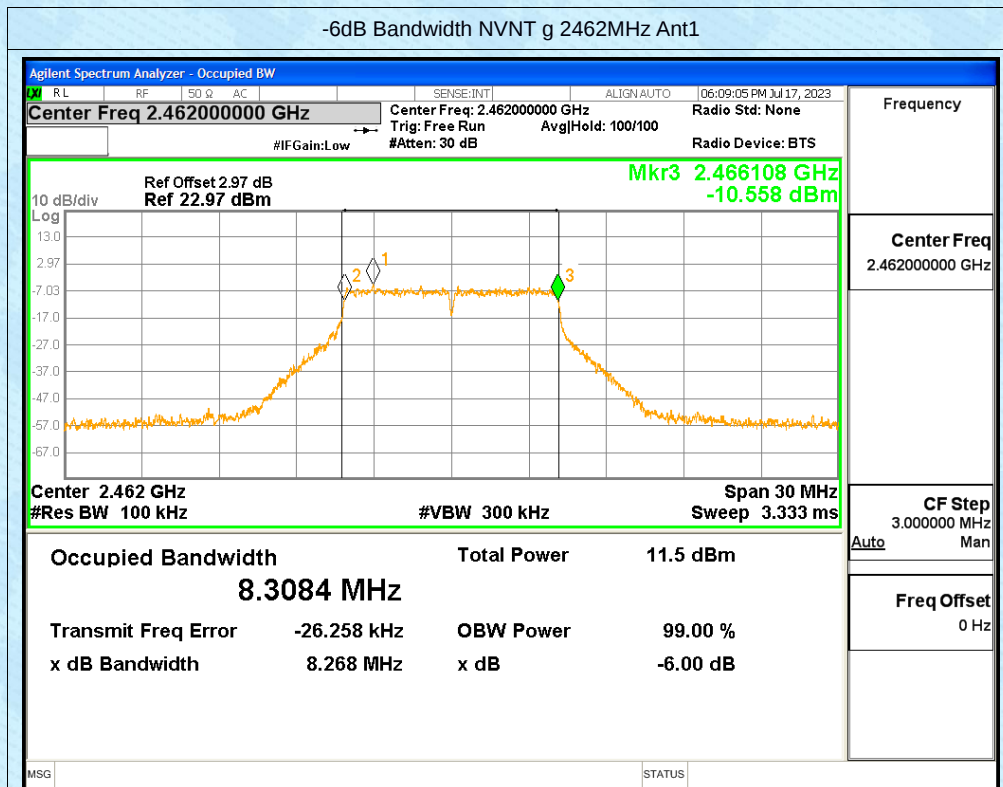


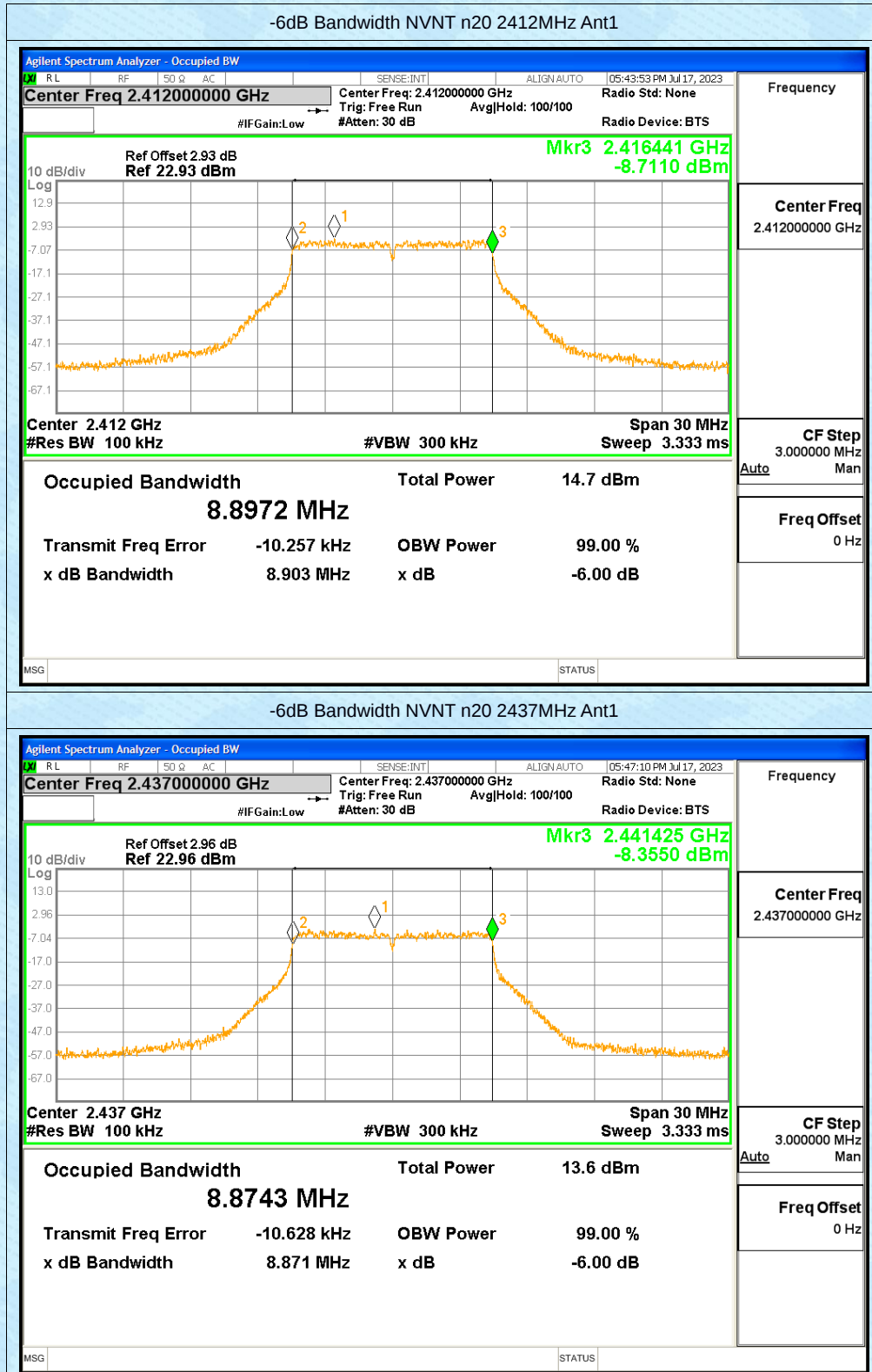
-6dB Bandwidth NVNT g 2437MHz Ant1

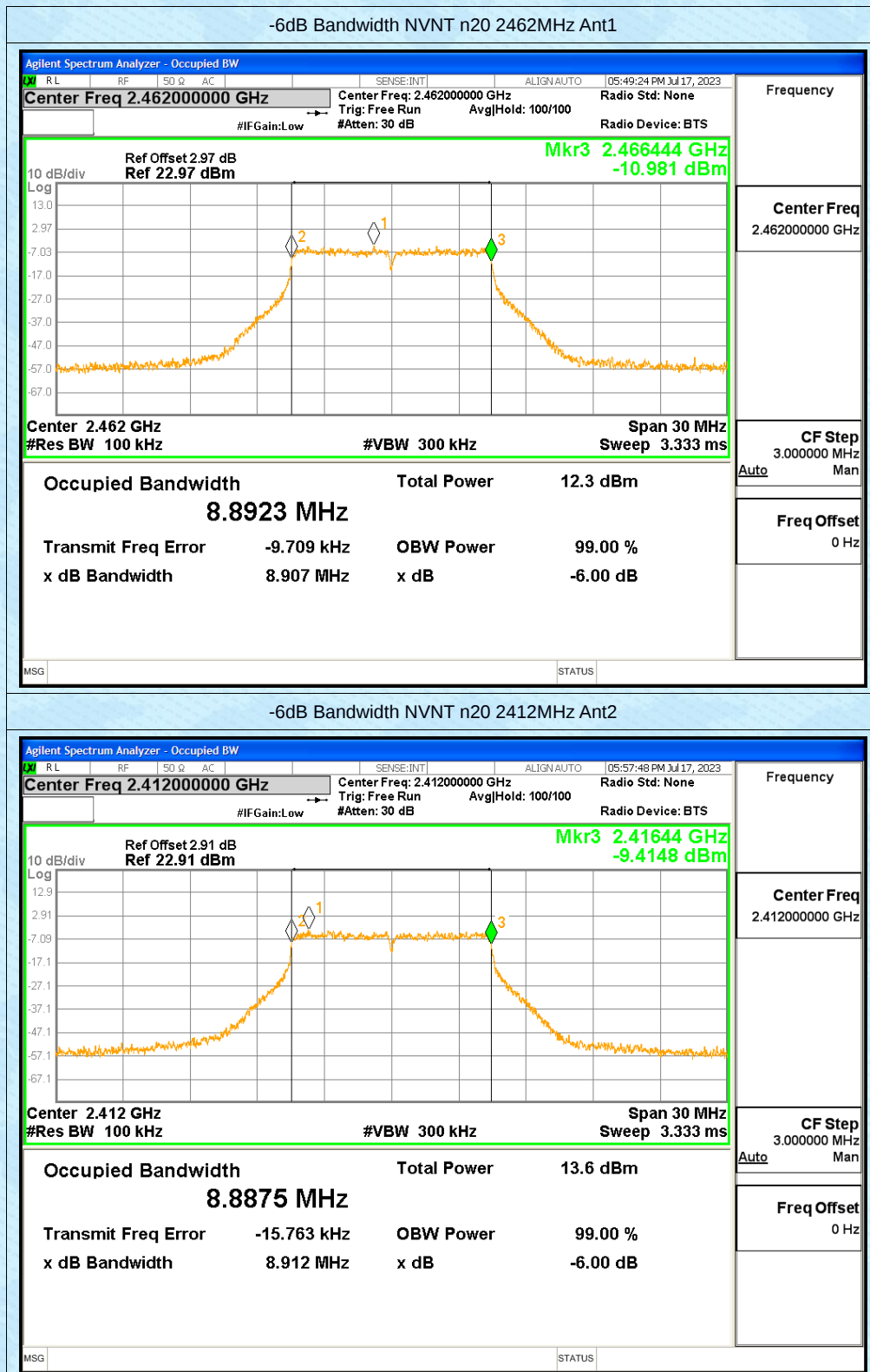


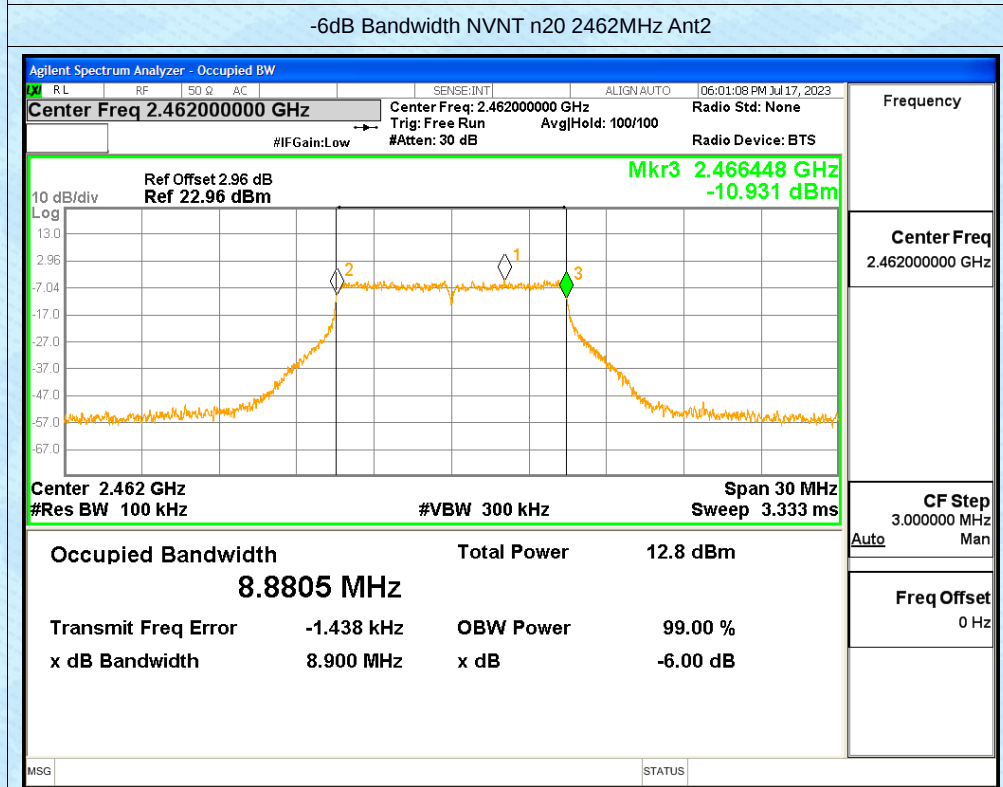
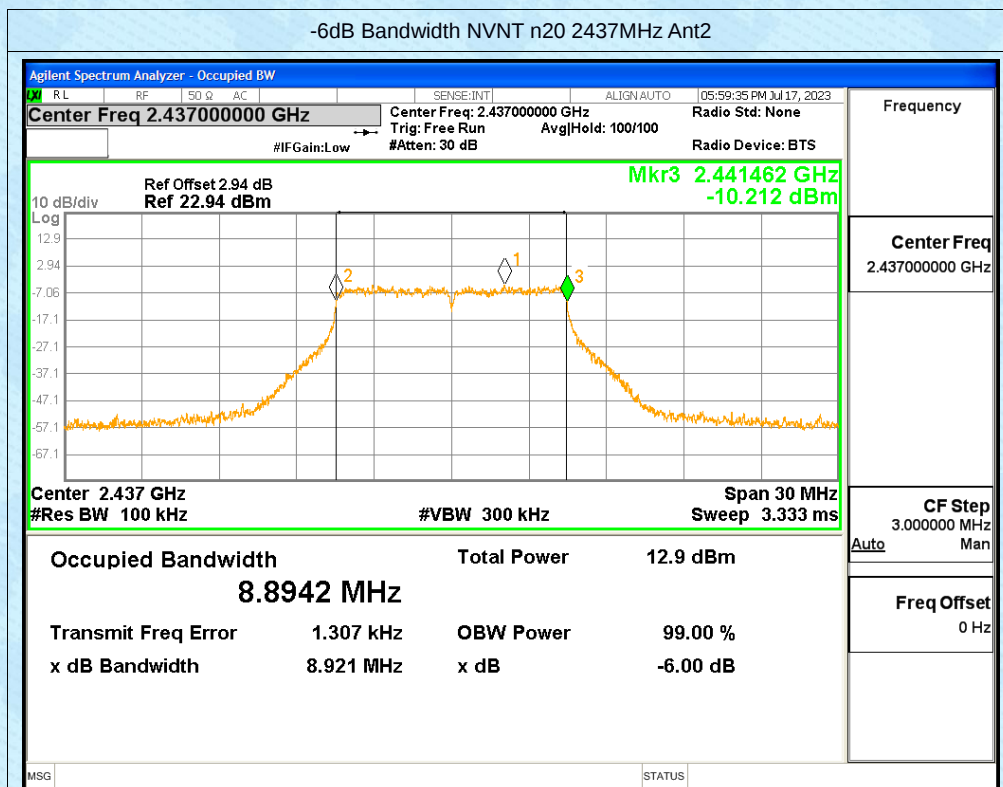
-6dB Bandwidth NVNT g 2437MHz Ant2

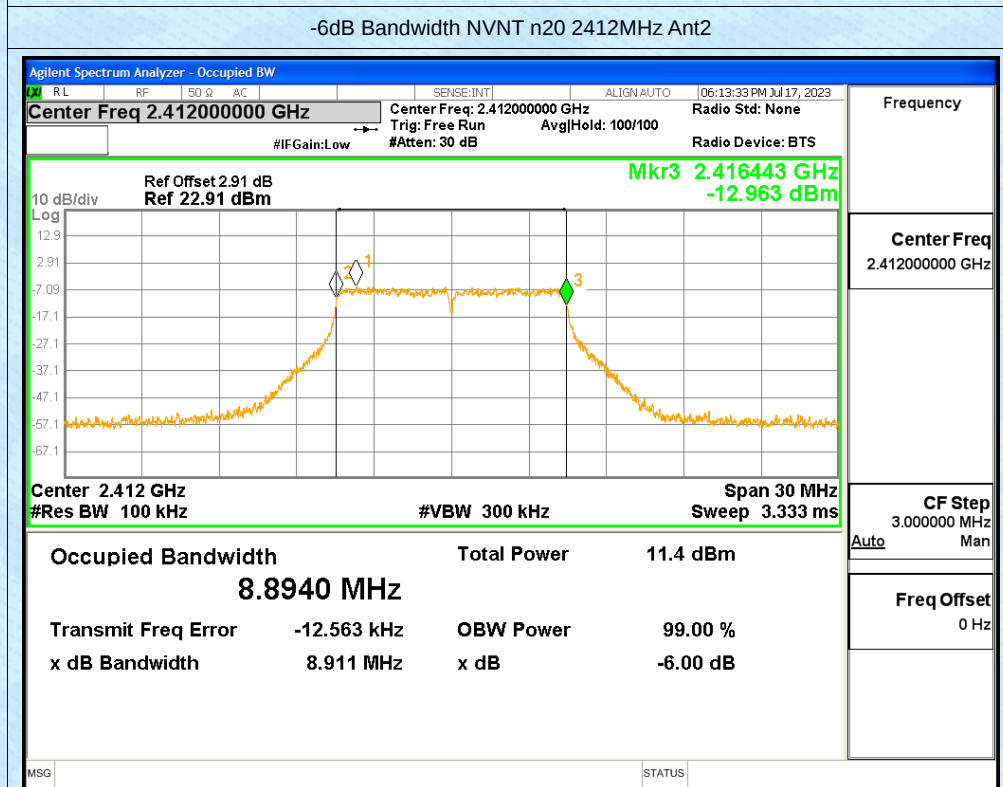
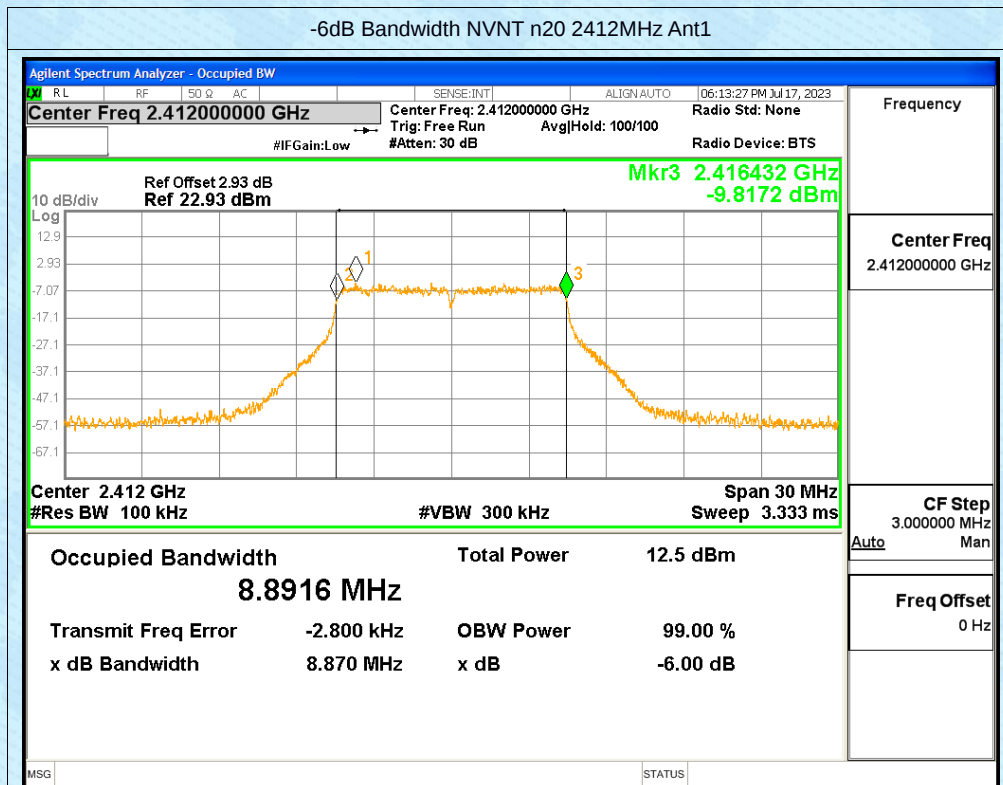


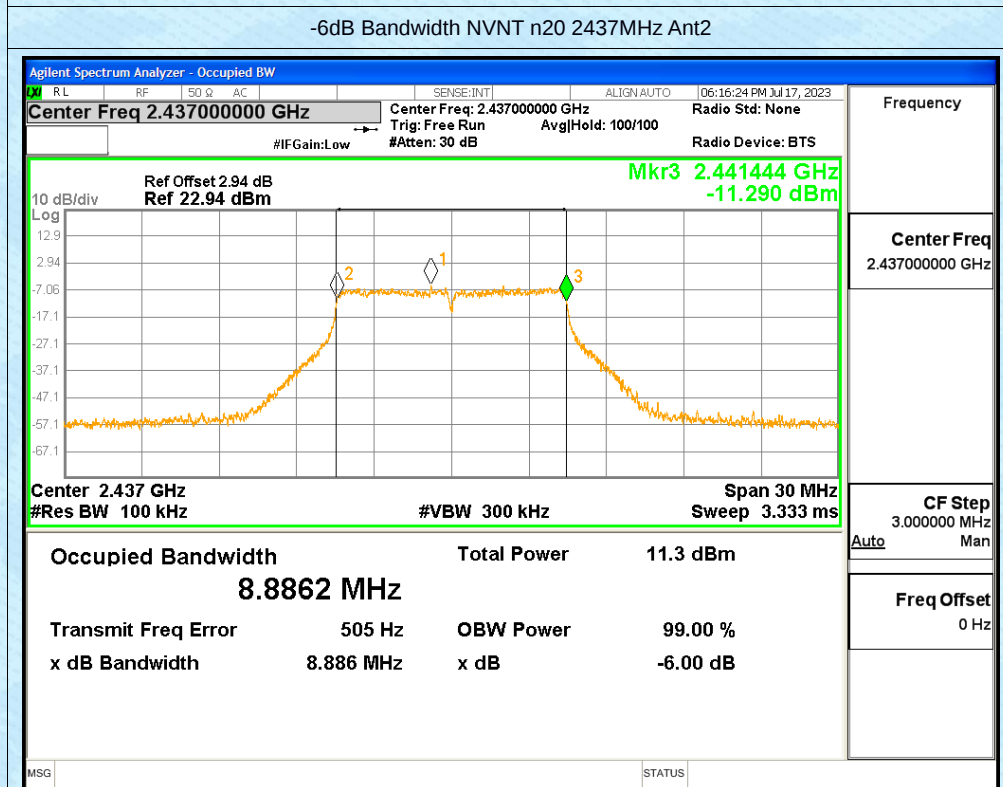
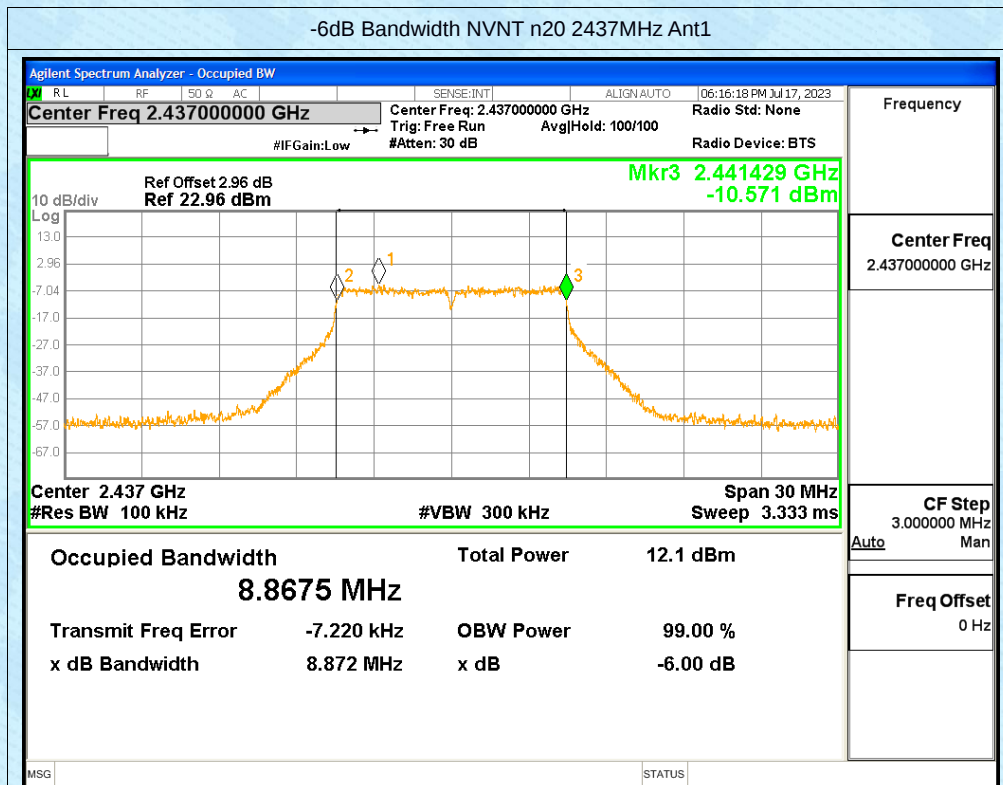


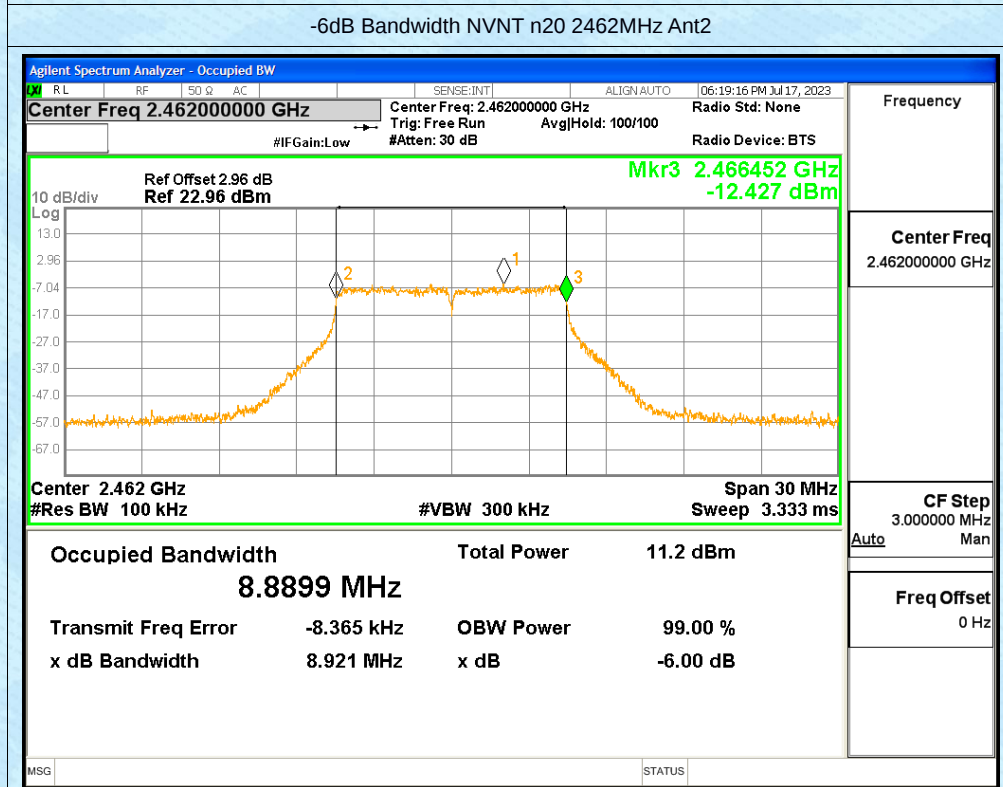
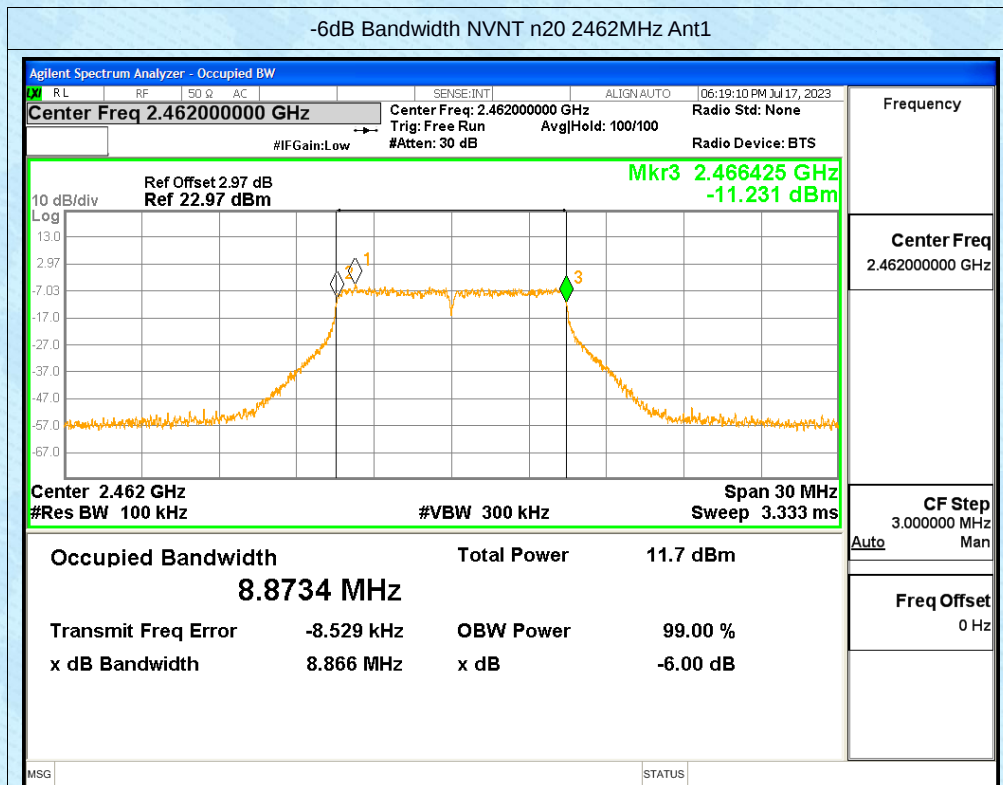










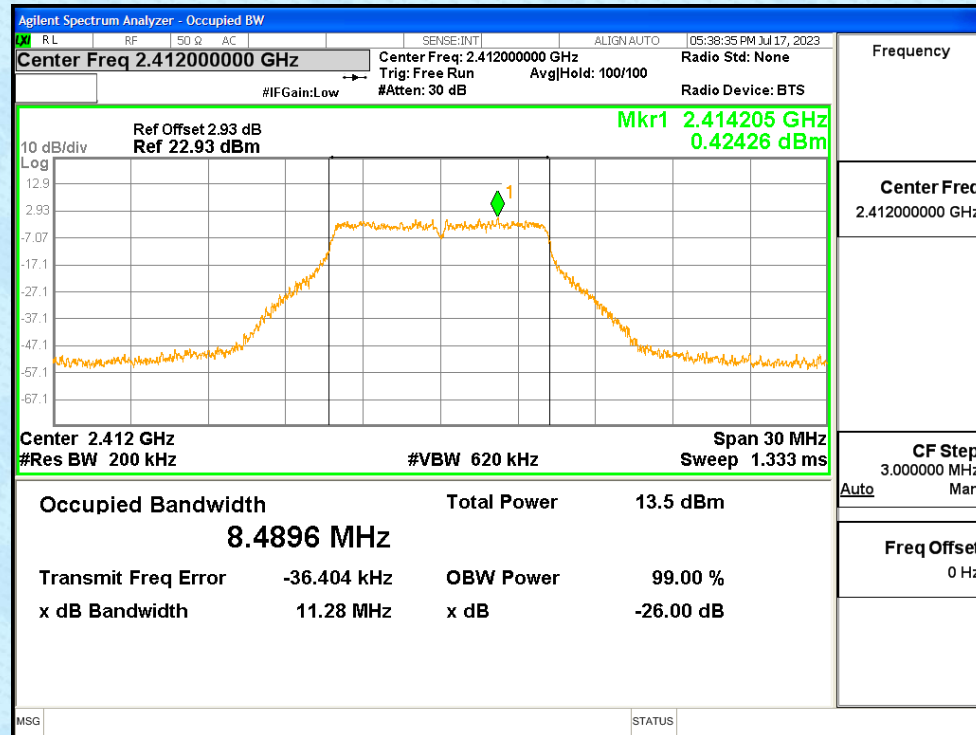


Occupied Channel Bandwidth

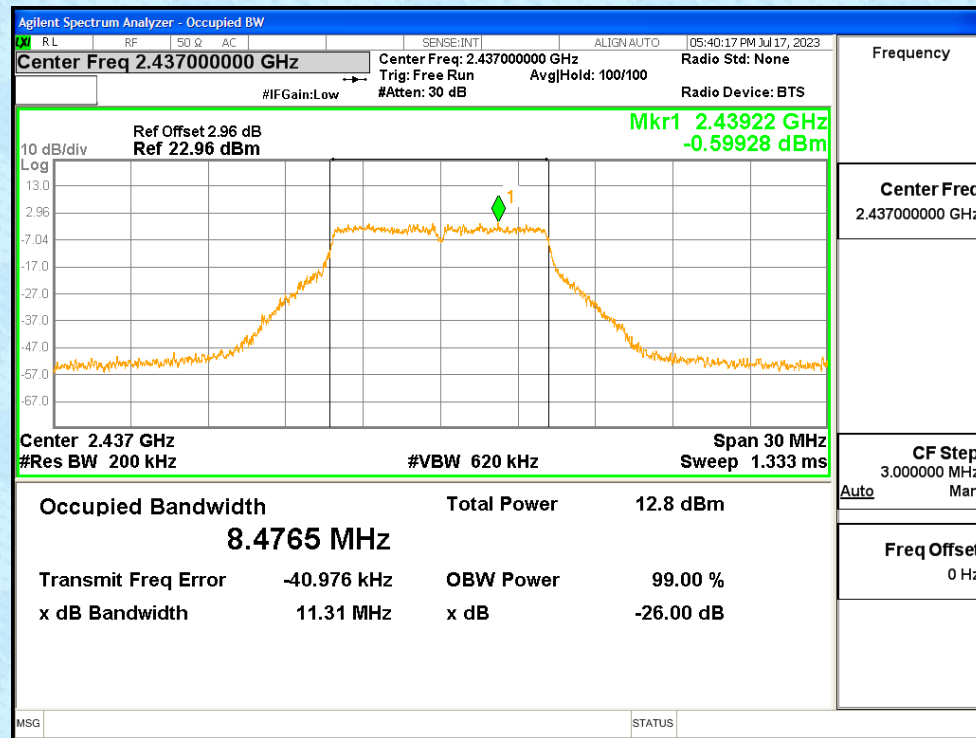
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	g	2412	Ant1	8.49
		2437		8.477
		2462		8.515
		2412	Ant2	8.503
		2437		8.507
		2462		8.481
		2412	Ant1	8.512
			Ant2	8.496
		2437	Ant1	8.484
			Ant2	8.486
		2462	Ant1	8.517
			Ant2	8.489
	n20	2412	Ant1	9.013
		2437		9.016
		2462		9.025
		2412	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

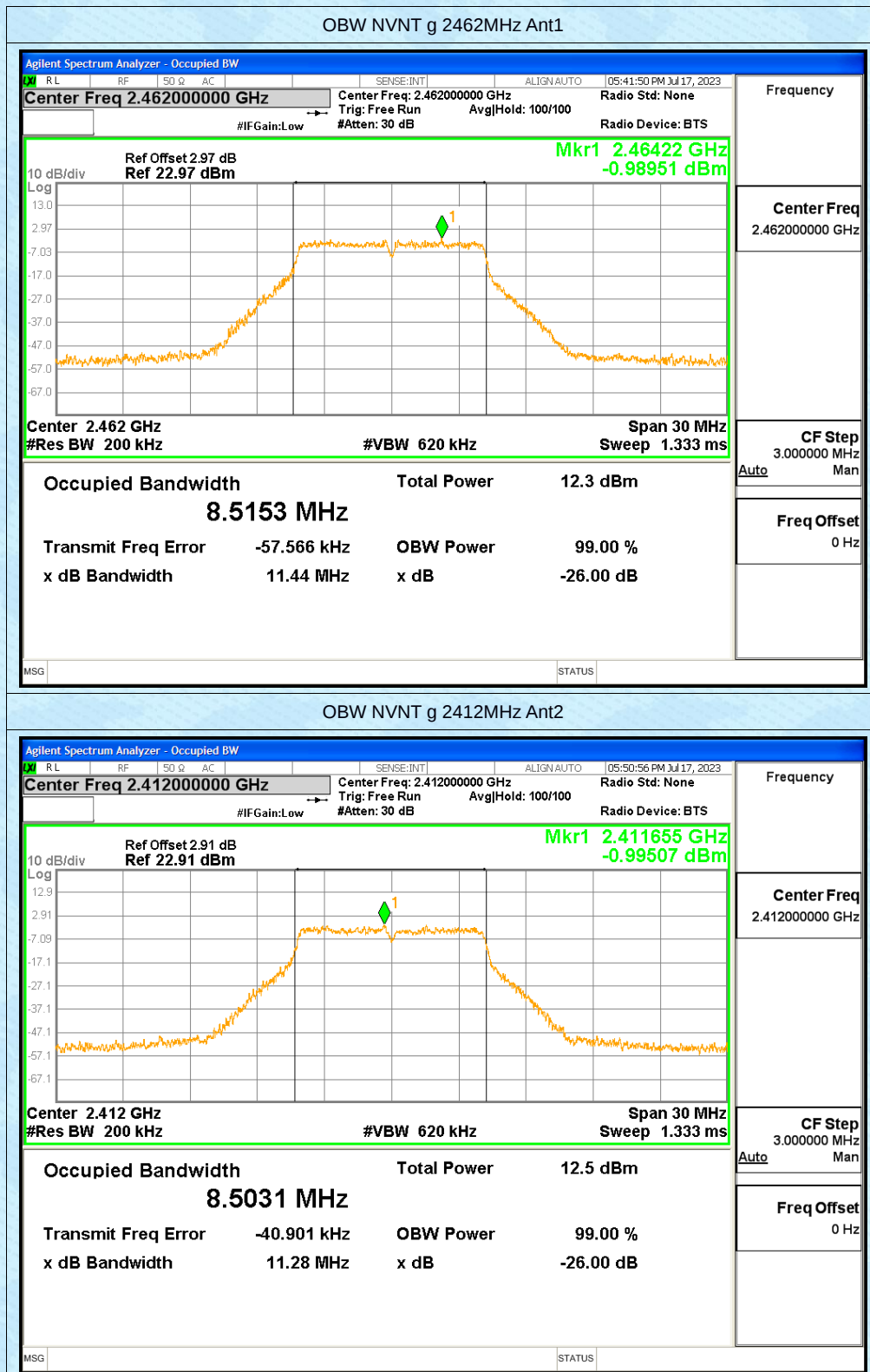
Test Graphs

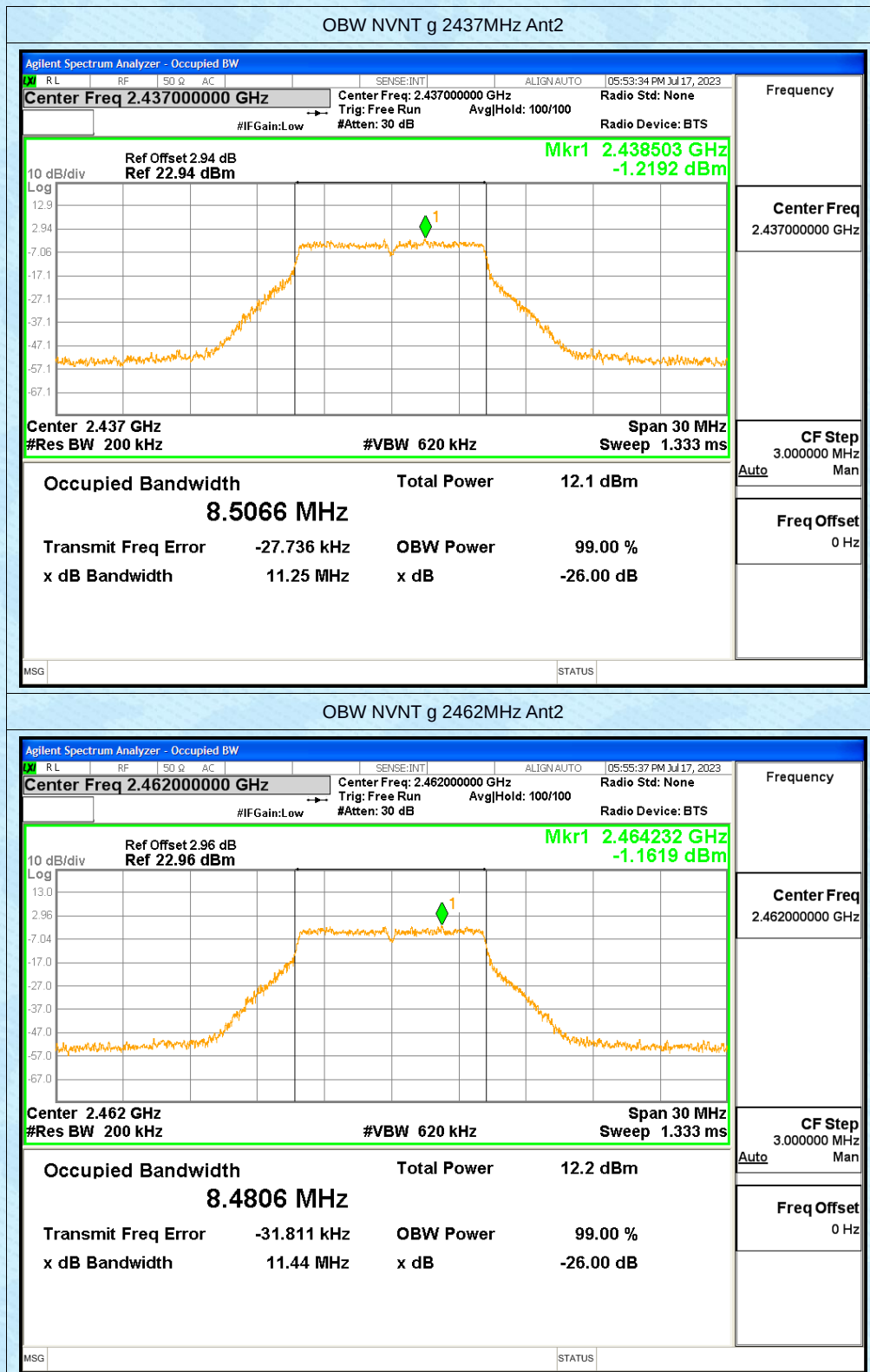
OBW NVNT g 2412MHz Ant1

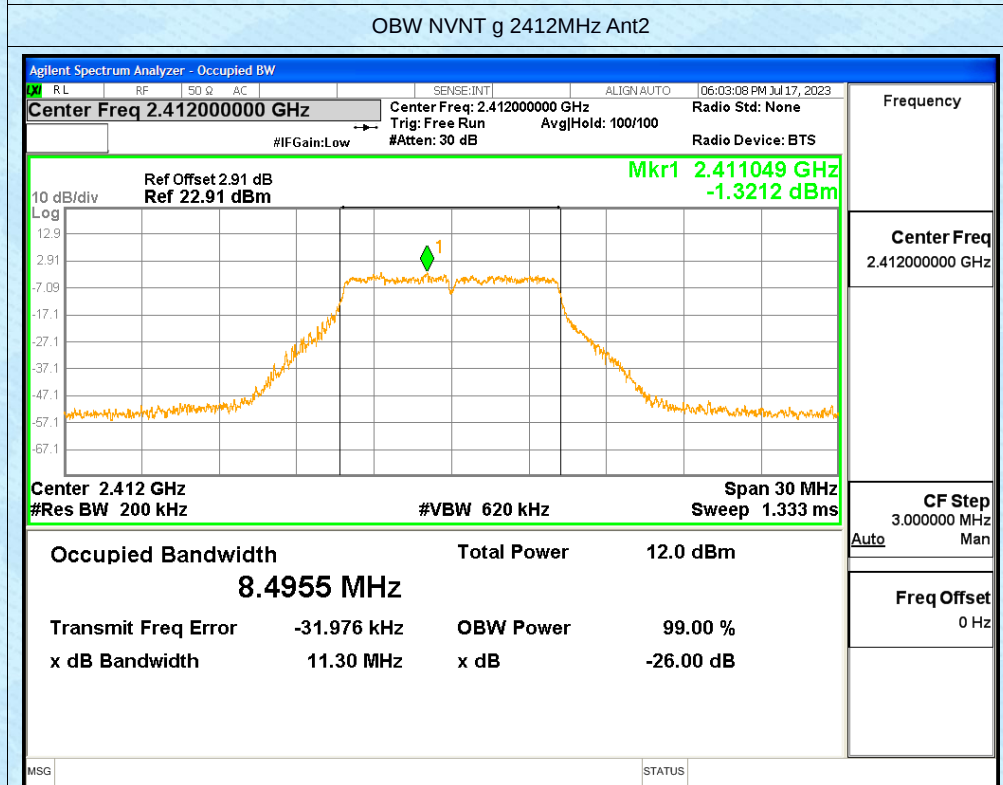
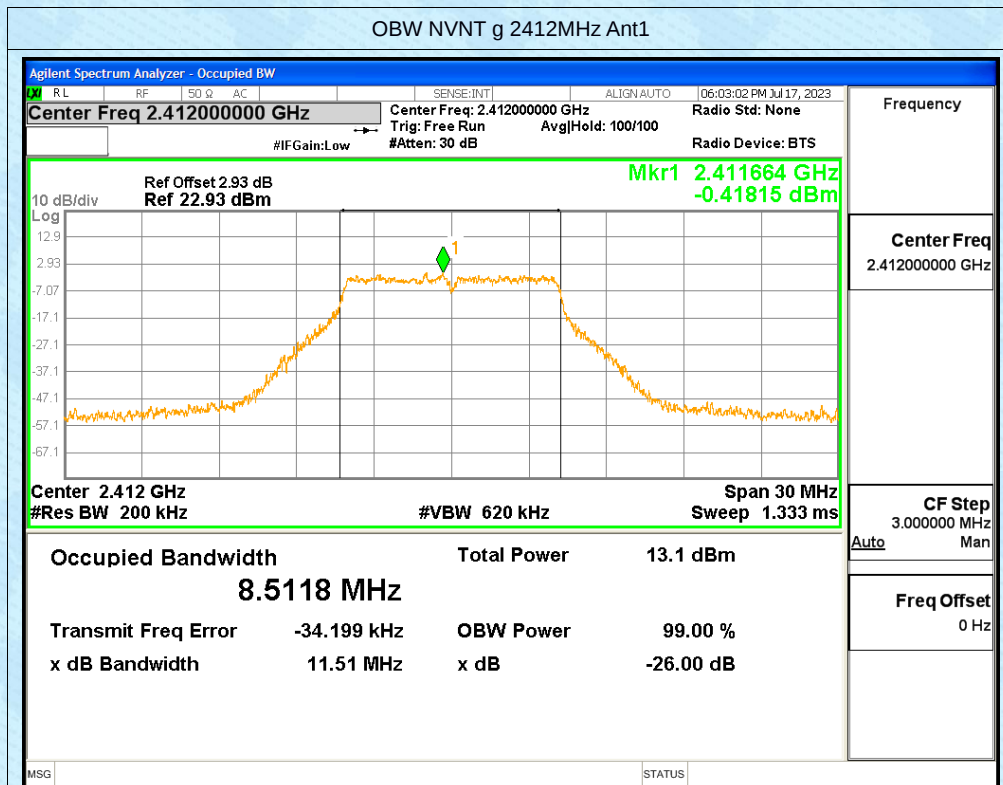


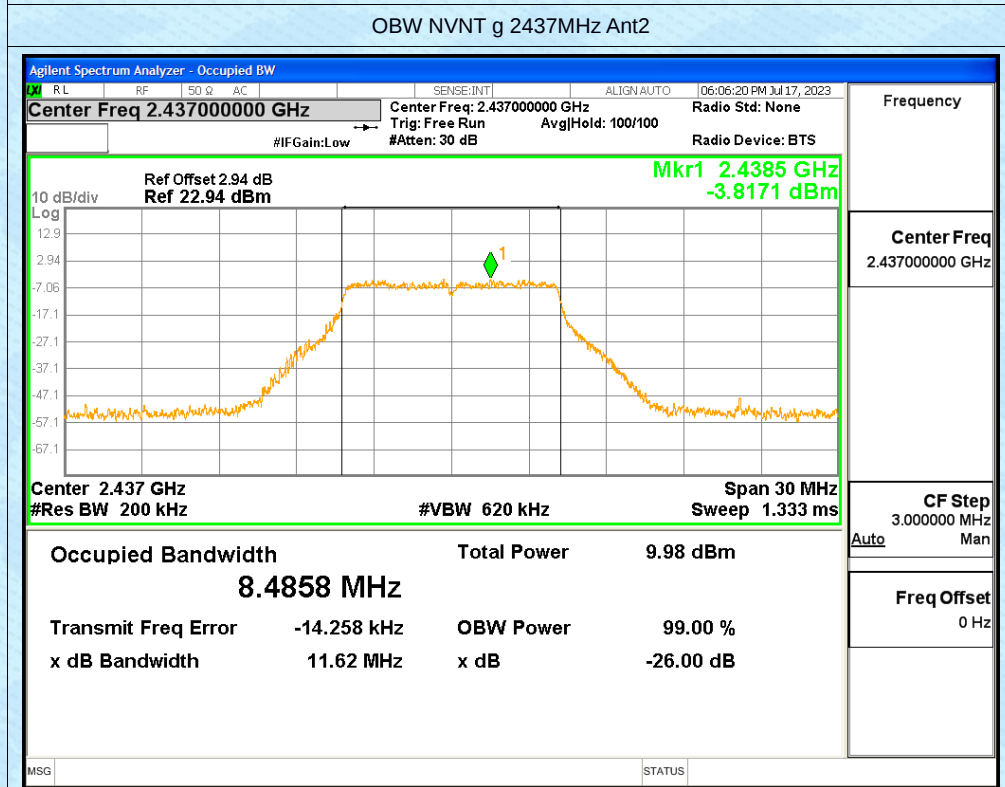
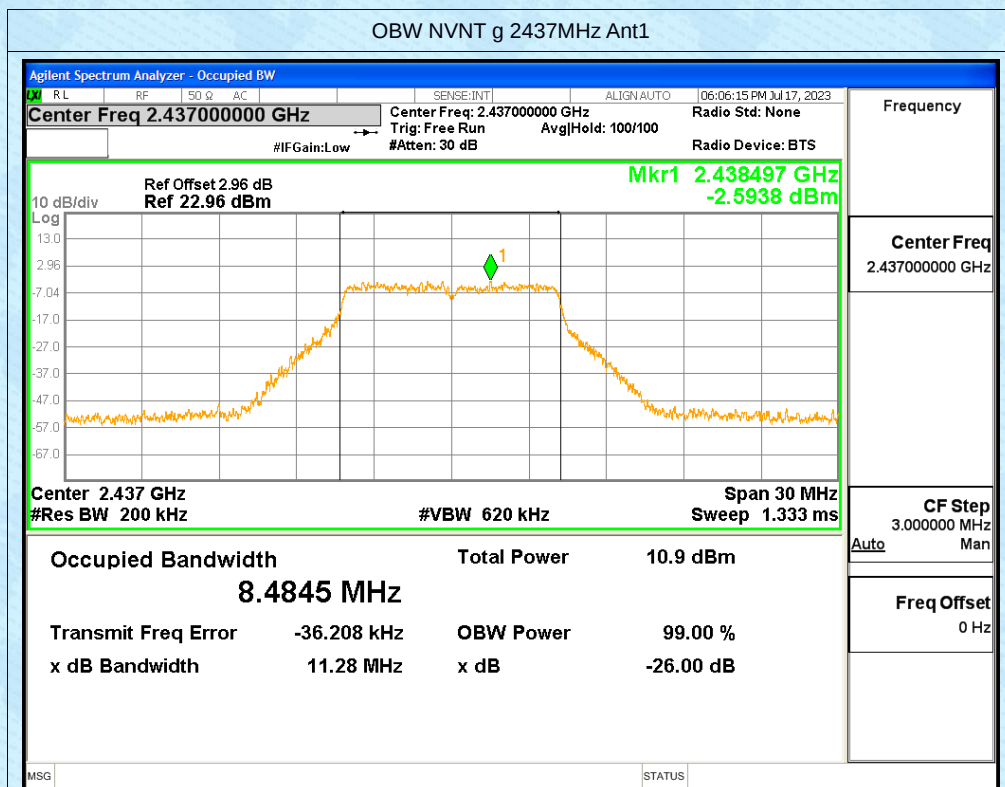
OBW NVNT g 2437MHz Ant1

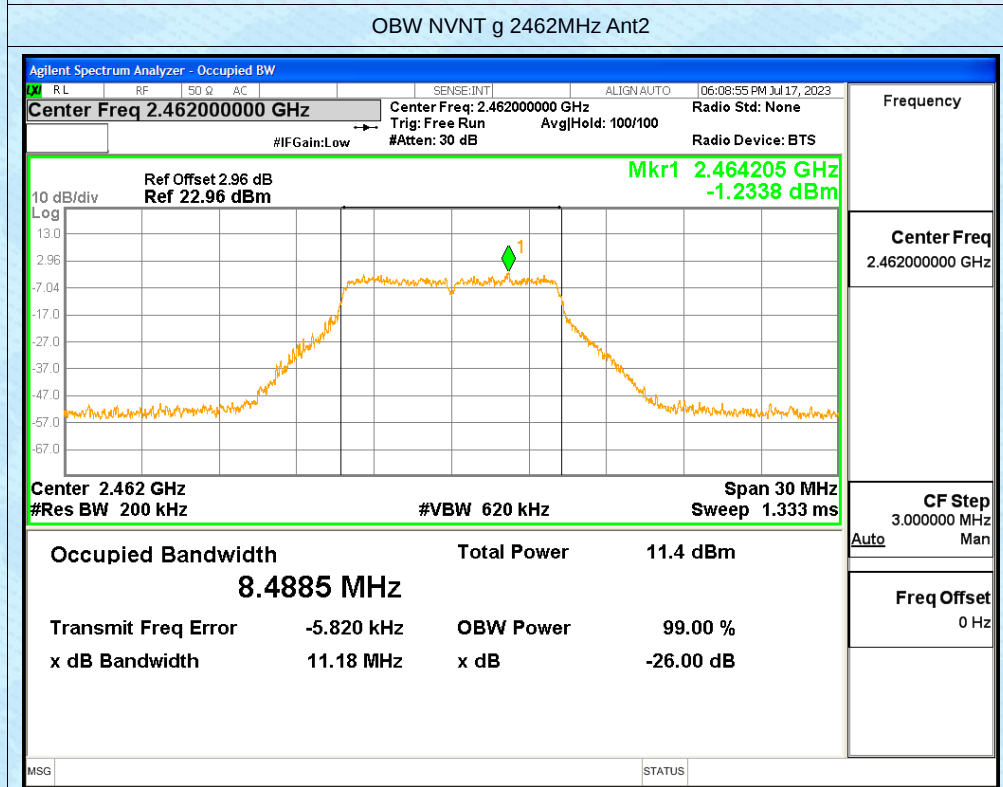
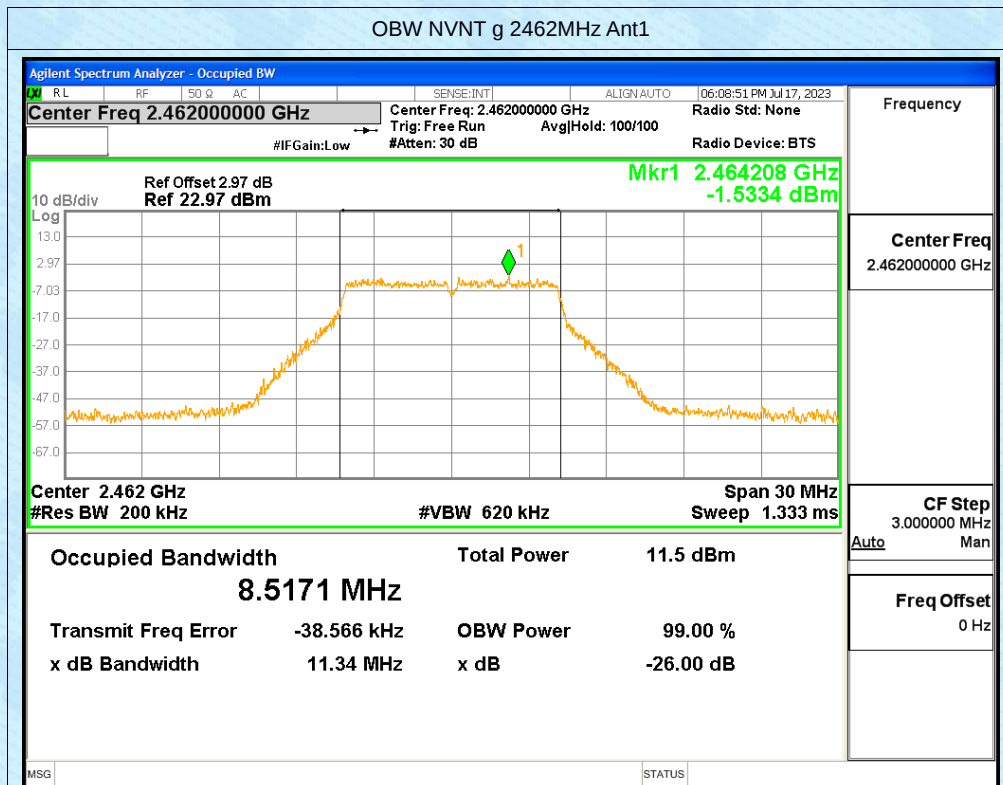


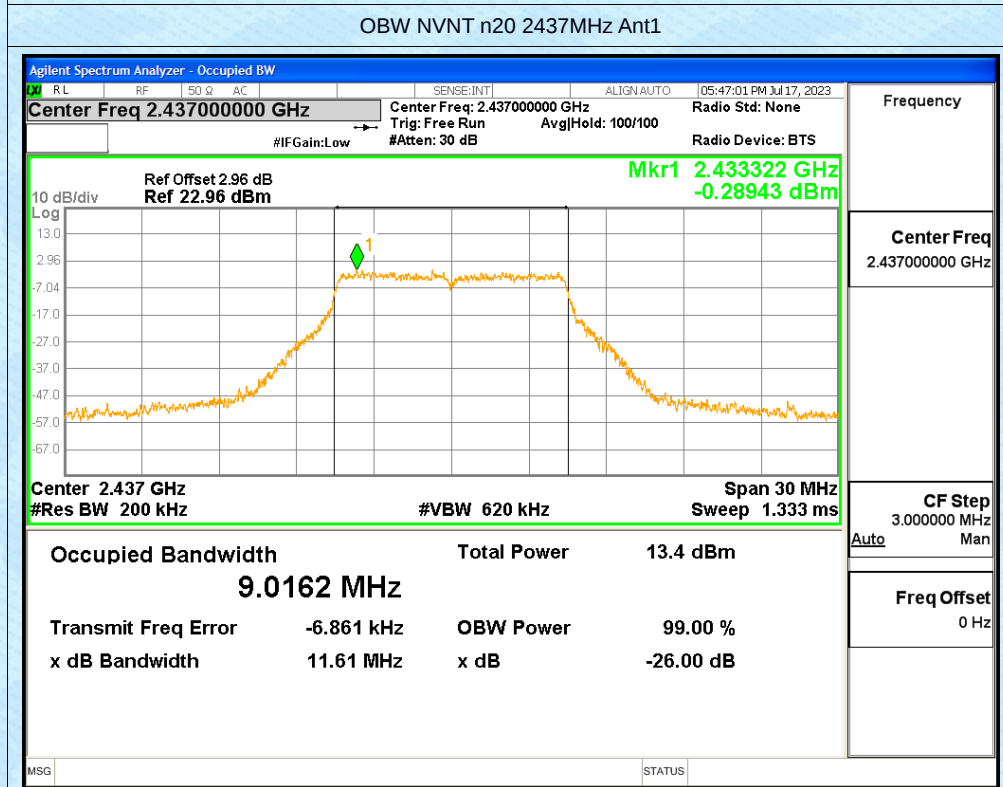
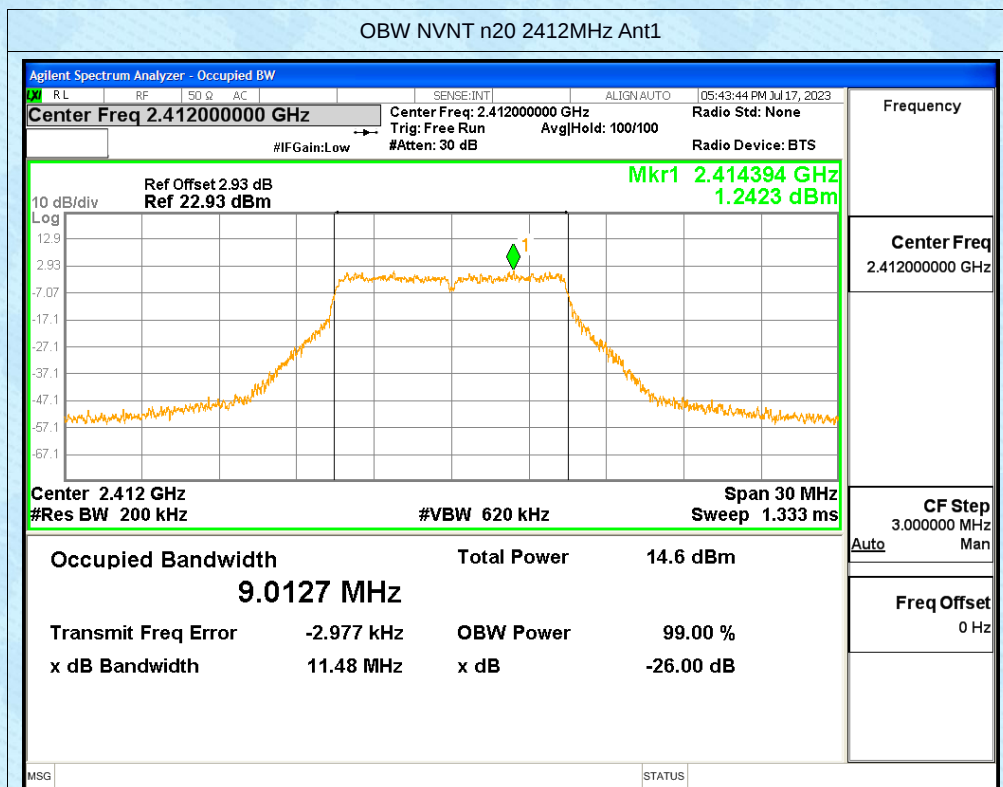


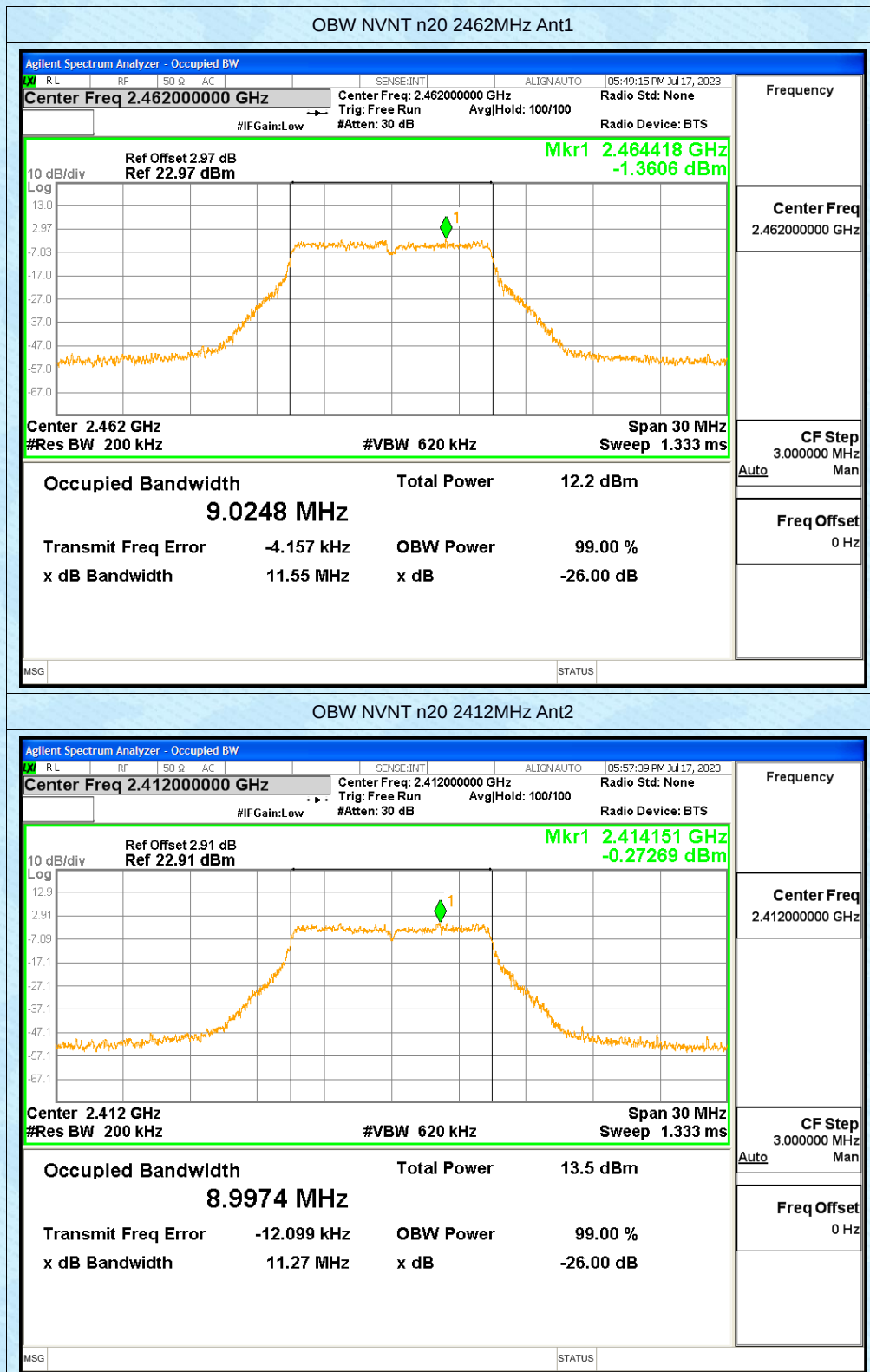


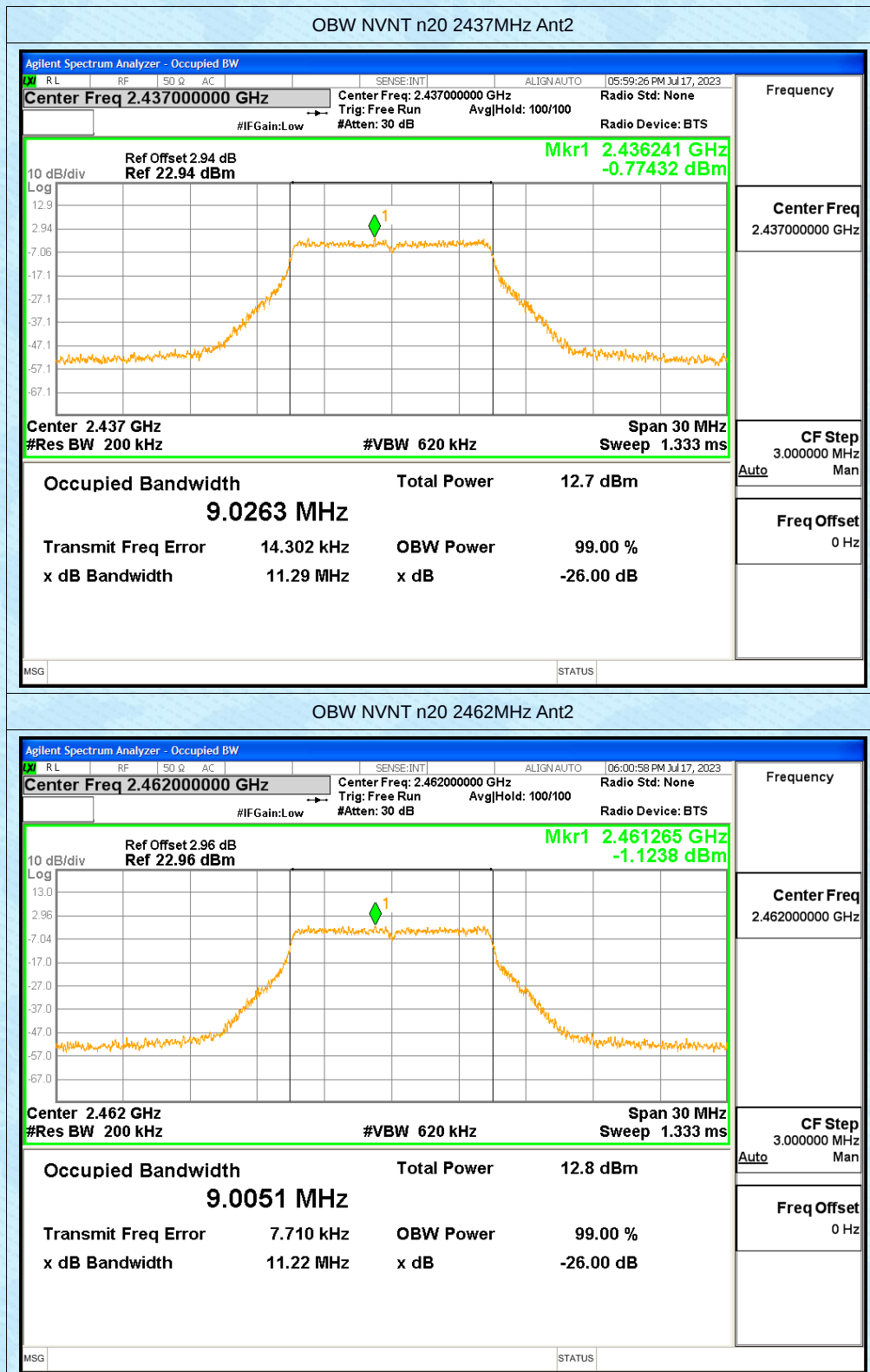


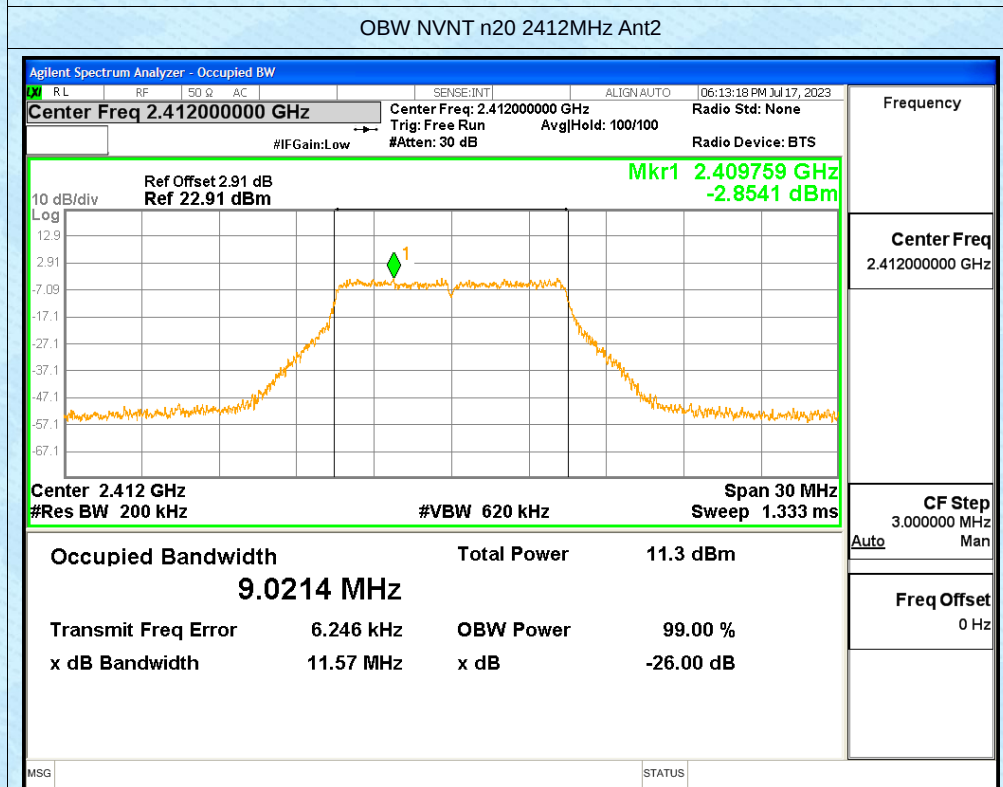
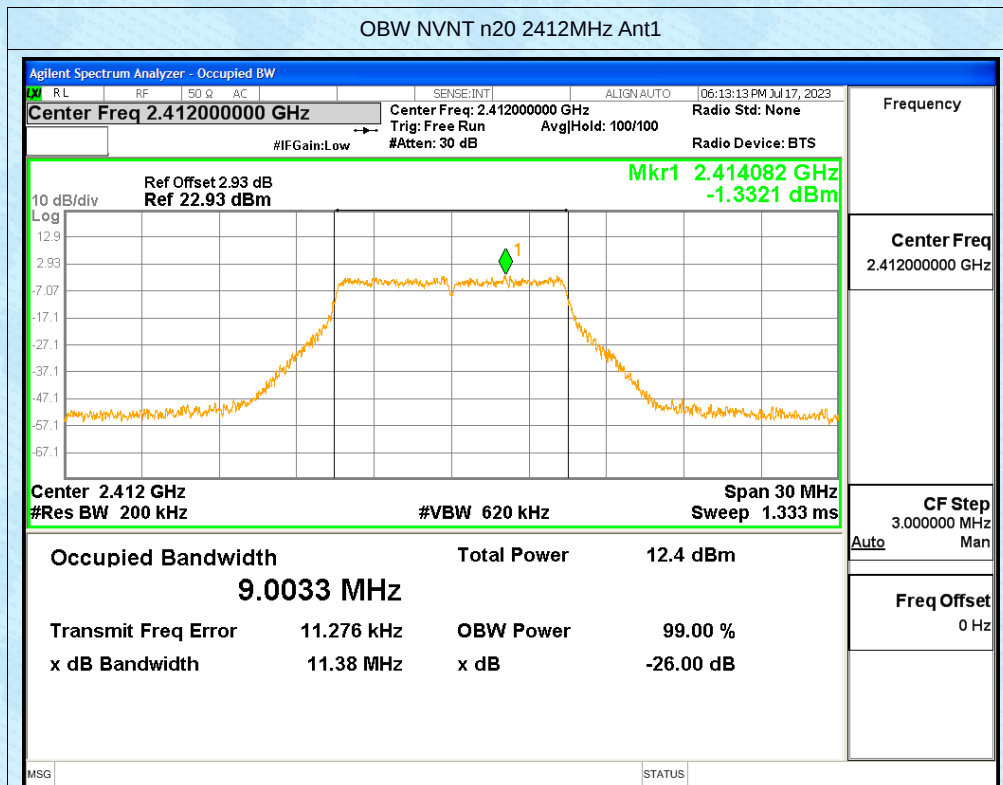


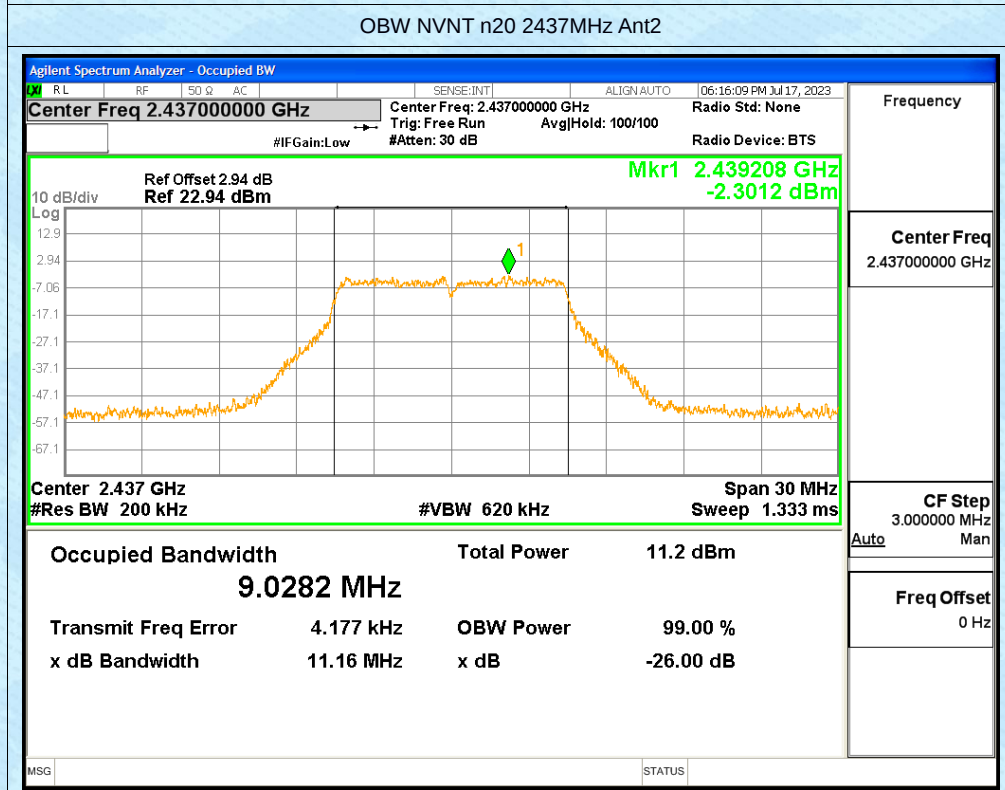
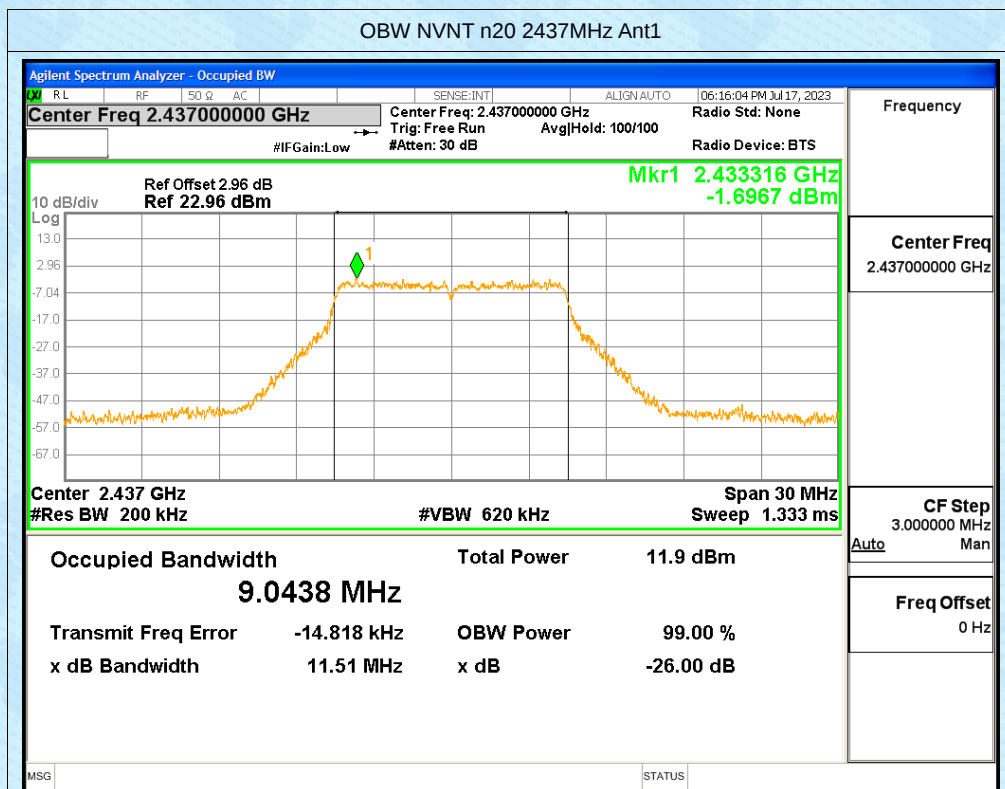


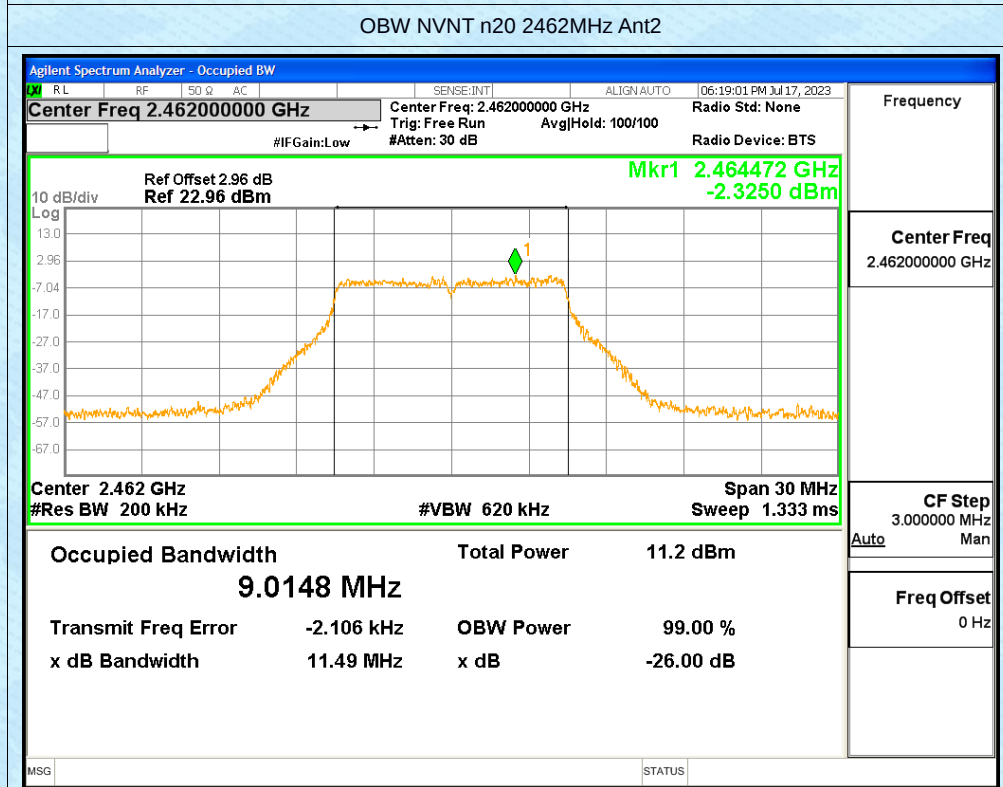
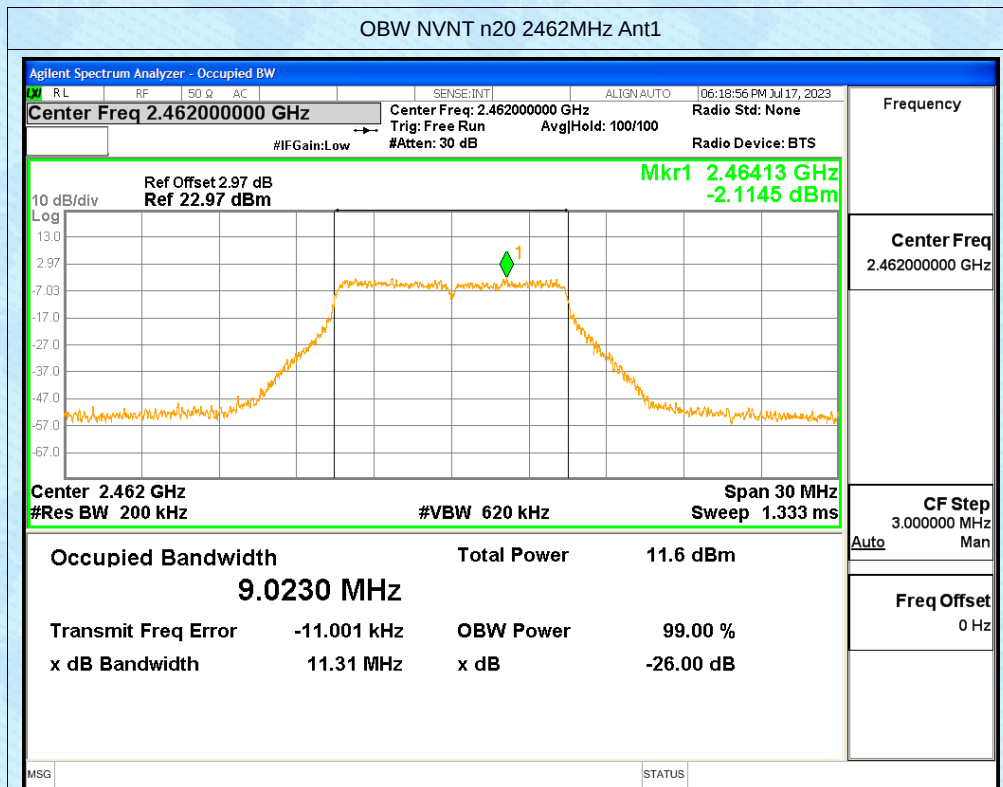












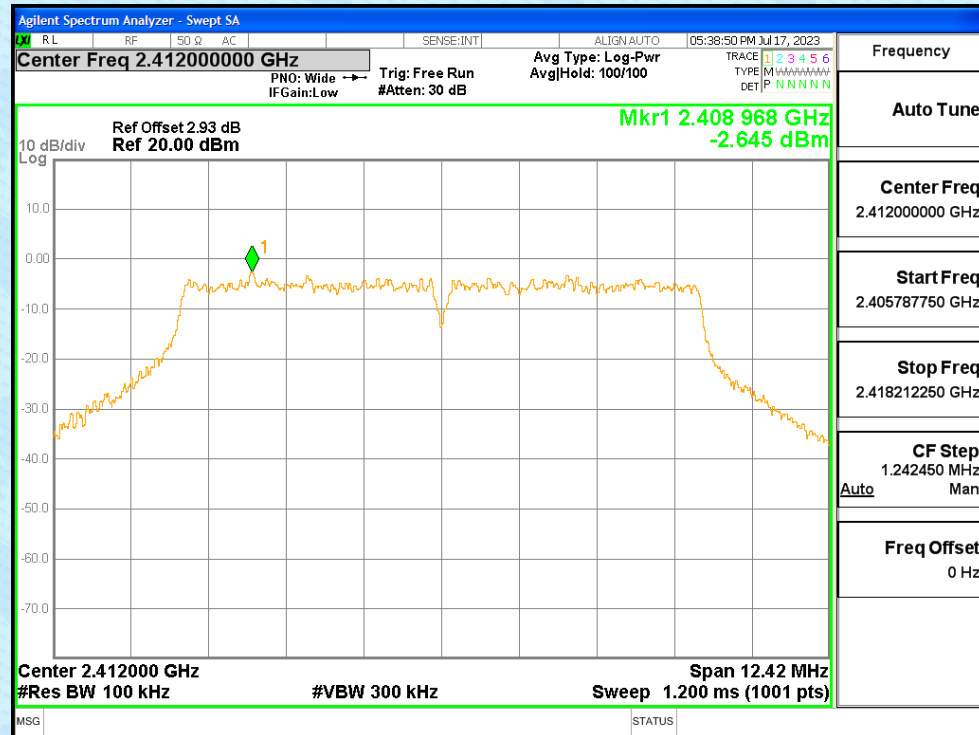
Maximum Power Spectral Density Level

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
			Sum	-0.84	0	-0.84	8	Pass
		2437	Ant1	-5.31	0	-5.31	8	Pass
			Ant2	-6.08	0	-6.08	8	Pass
			Sum	-2.67	0	-2.67	8	Pass
		2462	Ant1	-4.73	0	-4.73	8	Pass
			Ant2	-4.68	0	-4.68	8	Pass
			Sum	-1.69	0	-1.69	8	Pass
	n20	2412	Ant1	-2.05	0	-2.05	8	Pass
		2437		-2.64	0	-2.64	8	Pass
		2462		-3.97	0	-3.97	8	Pass
		2412	Ant2	-3.09	0	-3.09	8	Pass
		2437		-3.54	0	-3.54	8	Pass
		2462		-3.84	0	-3.84	8	Pass
		2412	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

Test Graphs

PSD NVNT g 2412MHz Ant1



PSD NVNT g 2437MHz Ant1

