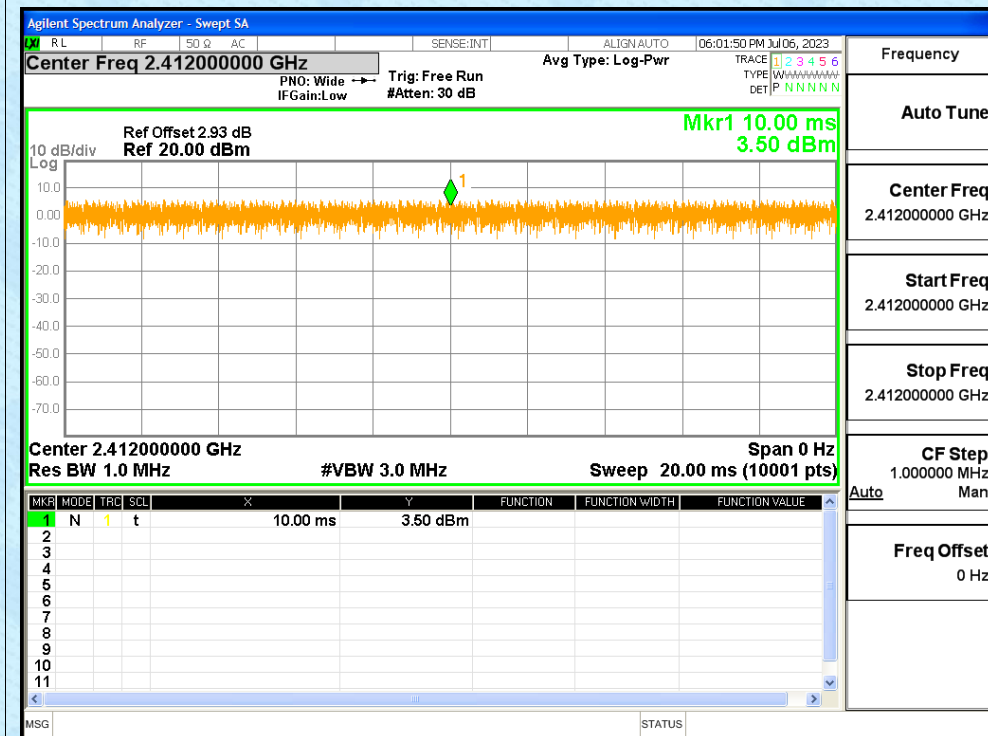


Duty Cycle

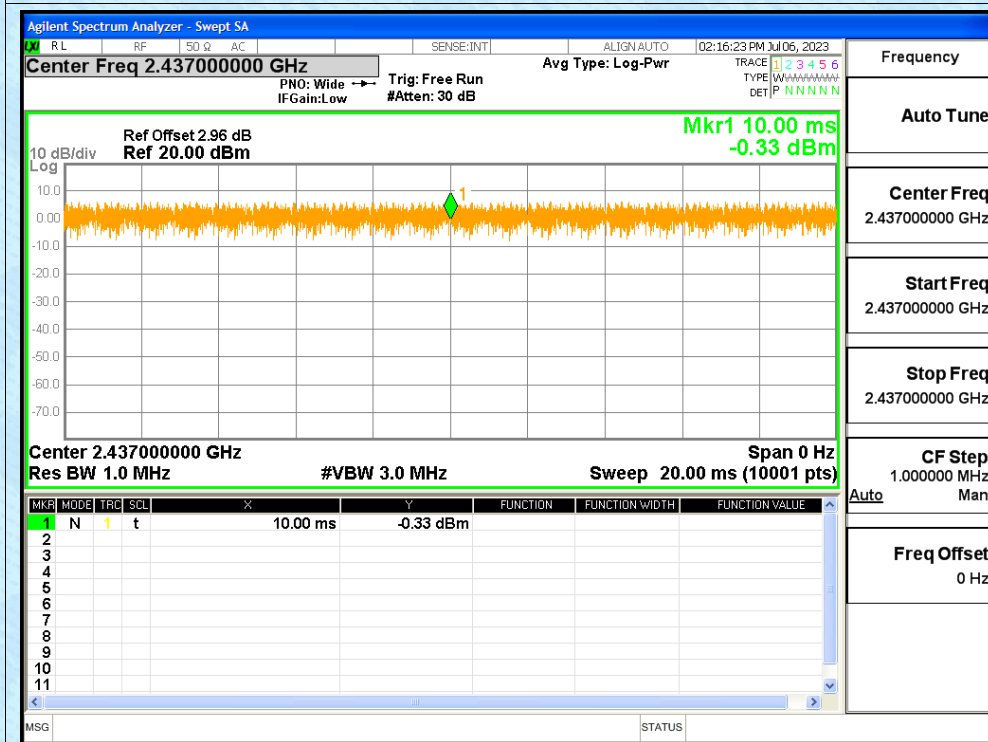
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	g	2412	Ant1	100	0	0
		2437		100	0	0
		2462		100	0	0
		2412	Ant2	100	0	0
		2437		100	0	0
		2462		100	0	0
		2412	Sum	100	0	0
		2437		100	0	0
		2462		100	0	0
	n20	2412	Ant1	100	0	0
		2437		100	0	0
		2462		100	0	0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





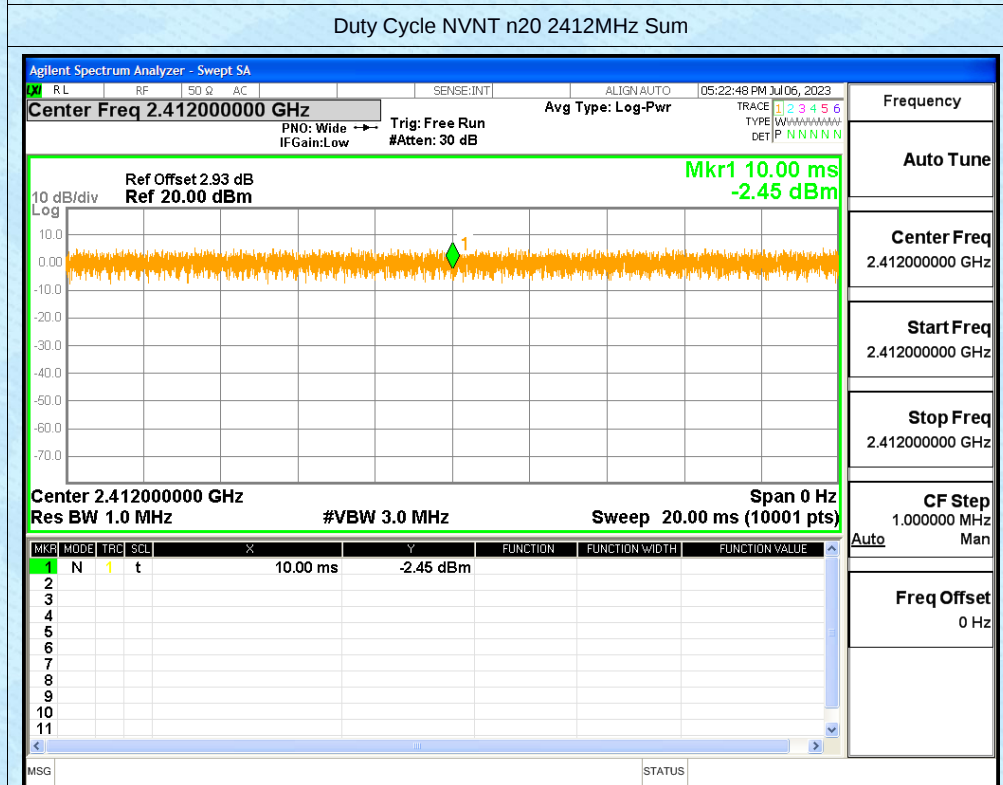
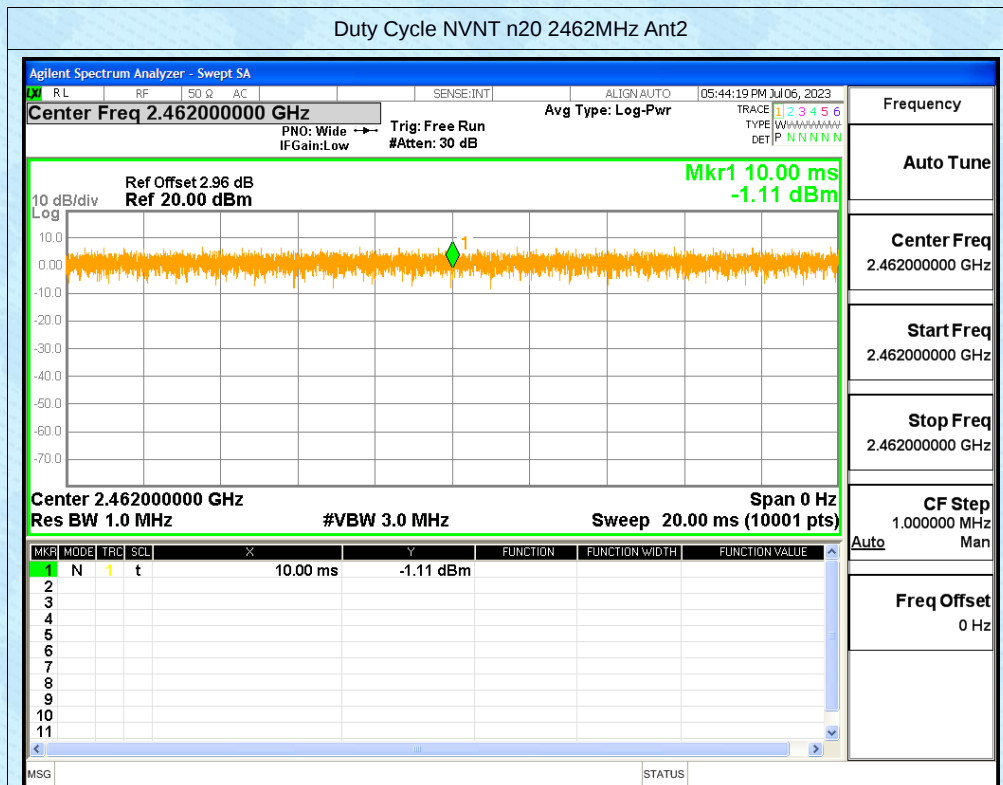














Maximum Conducted Output Power

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

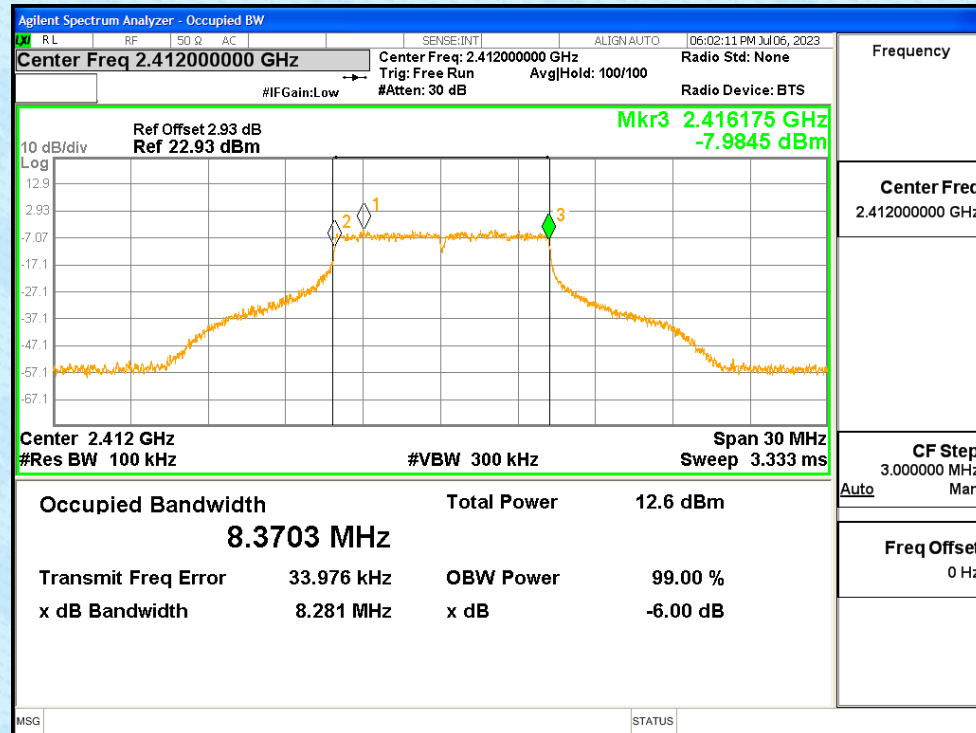
Directional gain=10 x log[(2/20+ 2/20)/2]=5.01dBi

-6dB Bandwidth

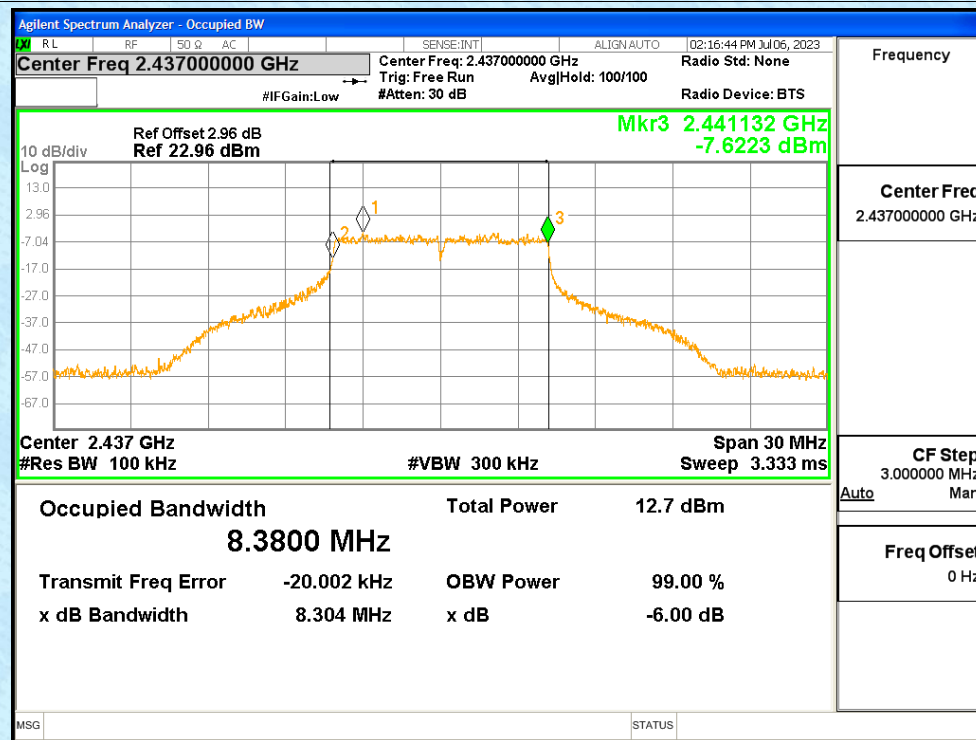
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	g	2412	Ant1	8.281	0.5	Pass
		2437		8.304	0.5	Pass
		2462		8.303	0.5	Pass
		2412	Ant2	8.284	0.5	Pass
		2437		8.267	0.5	Pass
		2462		8.297	0.5	Pass
		2412	Ant1	8.296	0.5	Pass
			Ant2	8.292	0.5	Pass
		2437	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

Test Graphs

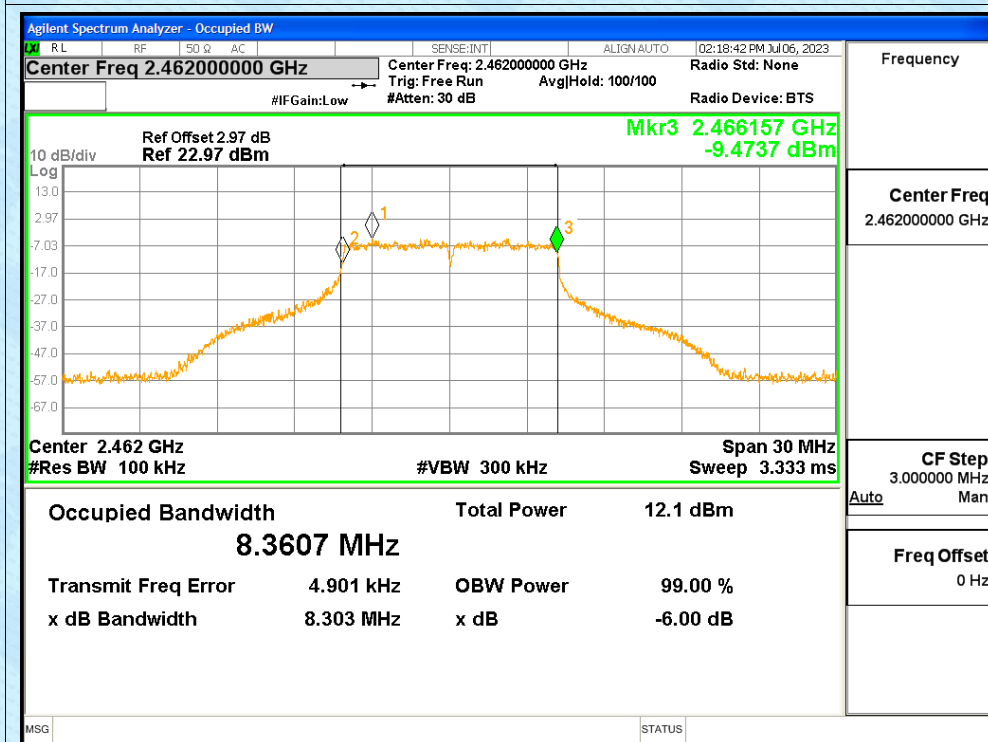
-6dB Bandwidth NVNT g 2412MHz Ant1



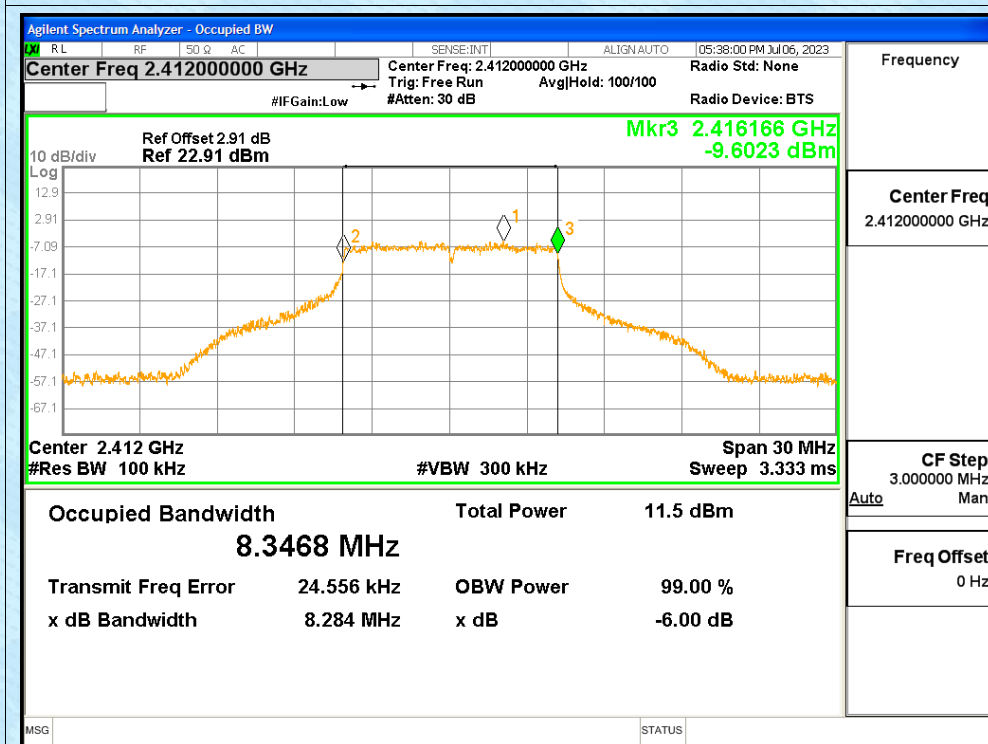
-6dB Bandwidth NVNT g 2437MHz Ant1

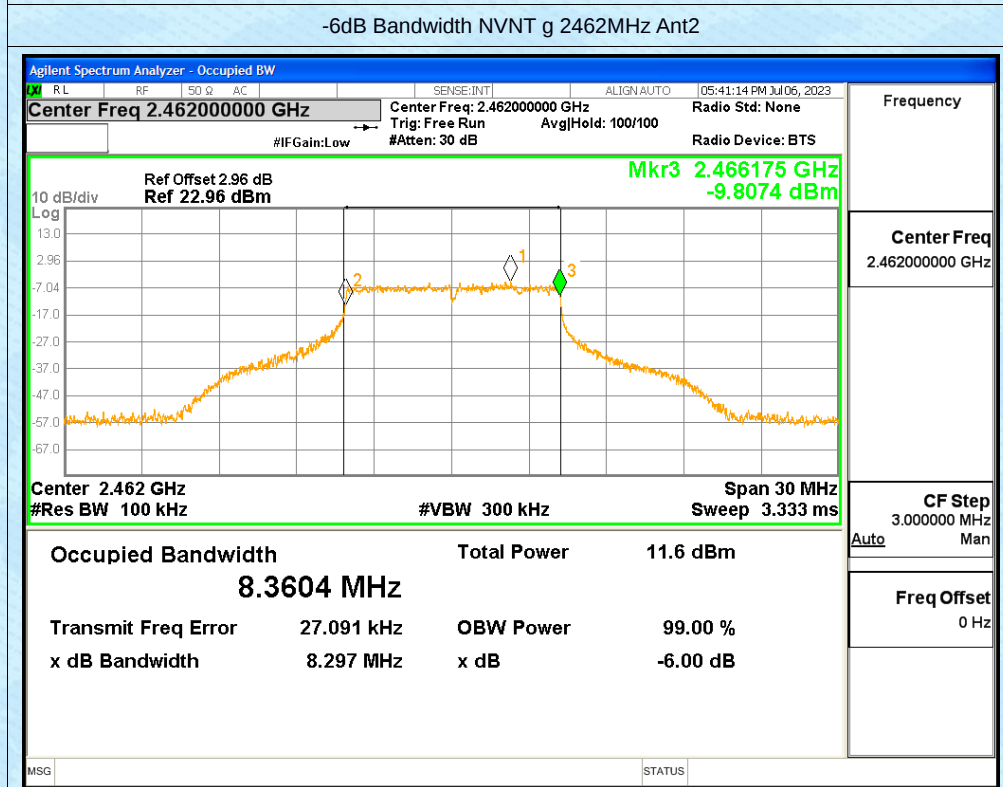
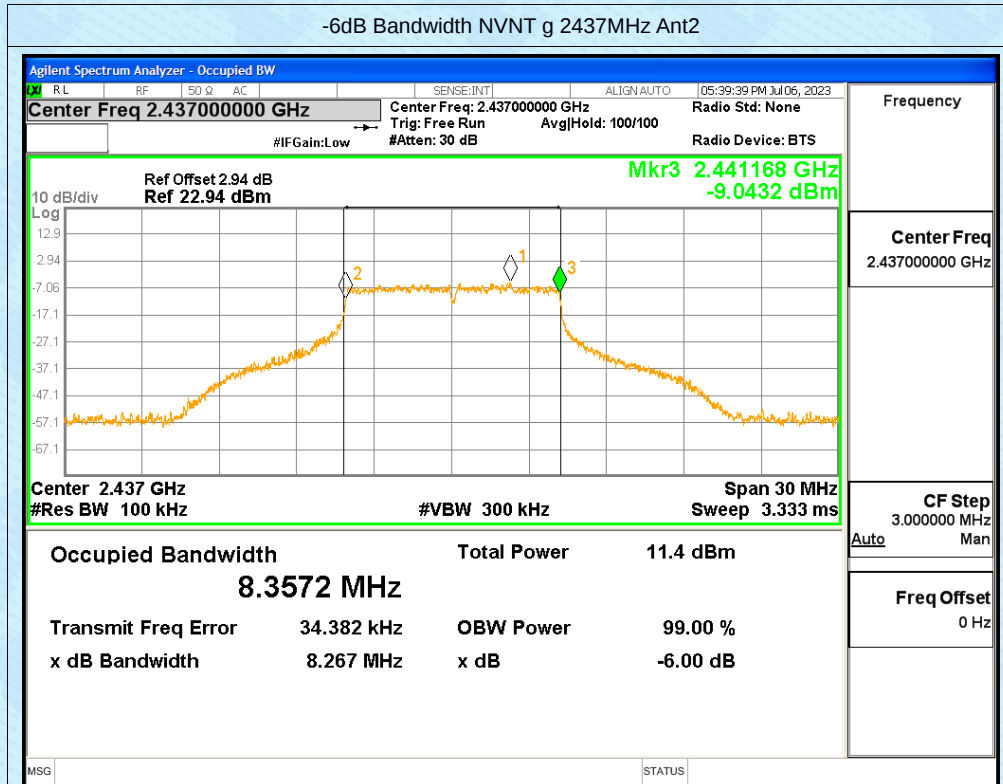


-6dB Bandwidth NVNT g 2462MHz Ant1

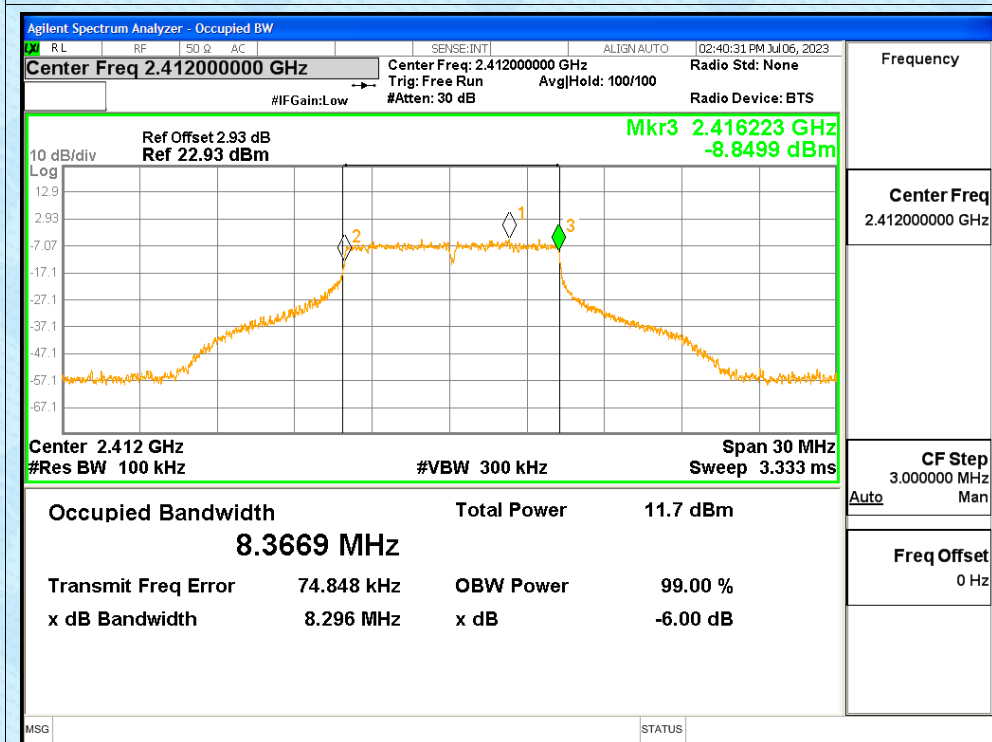


-6dB Bandwidth NVNT g 2412MHz Ant2

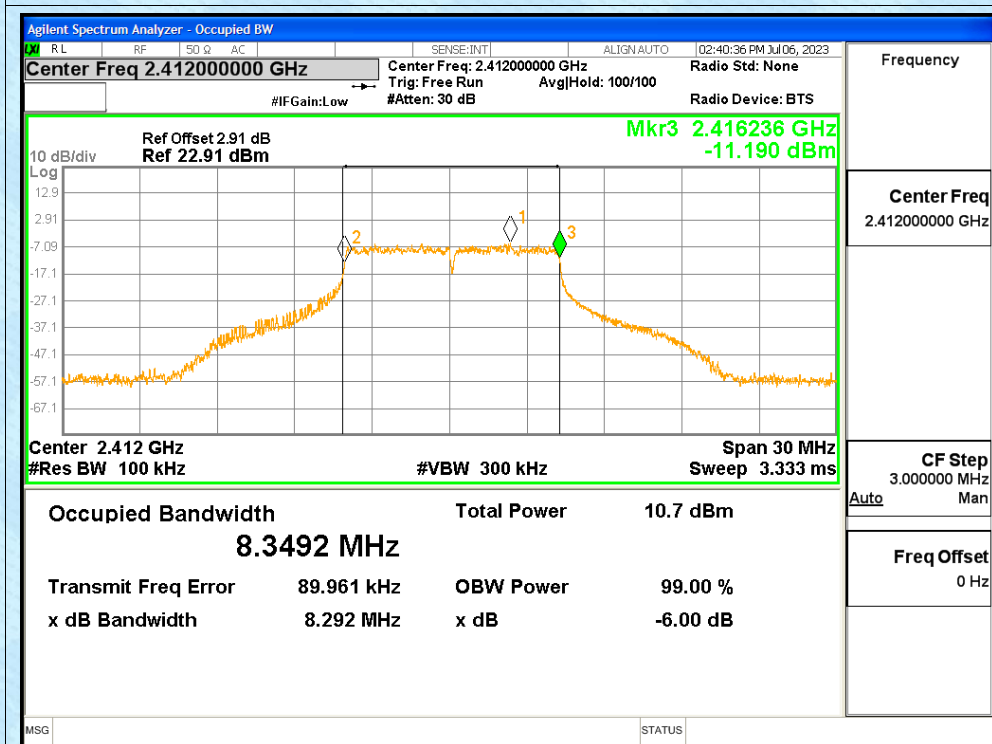


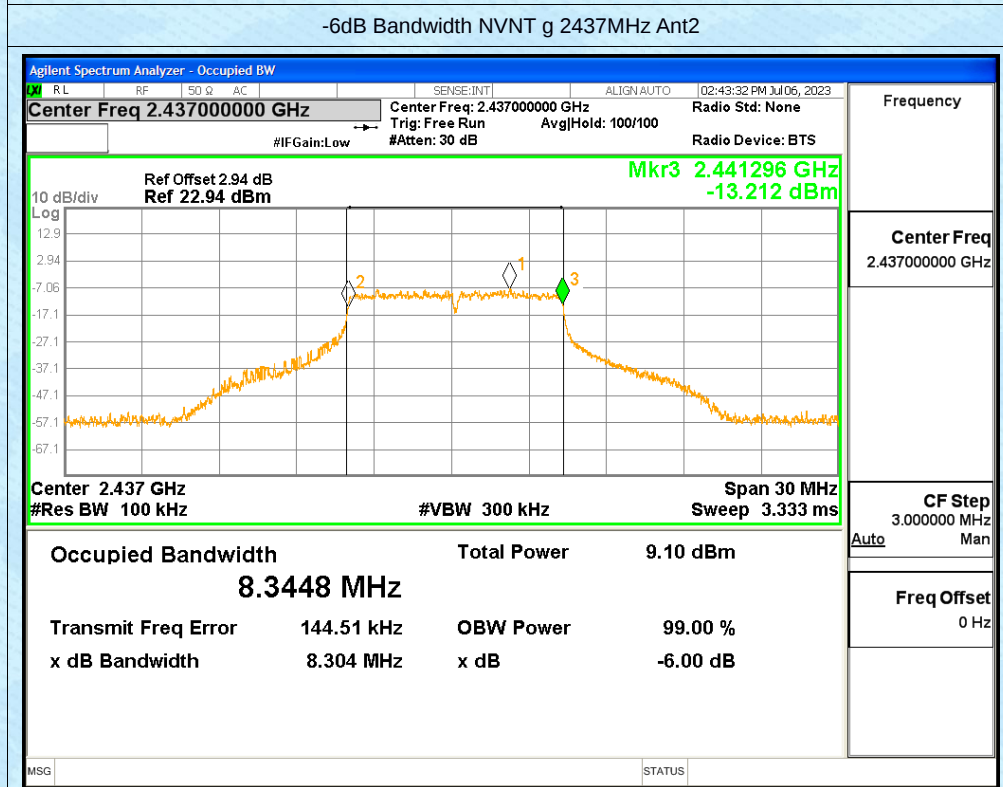
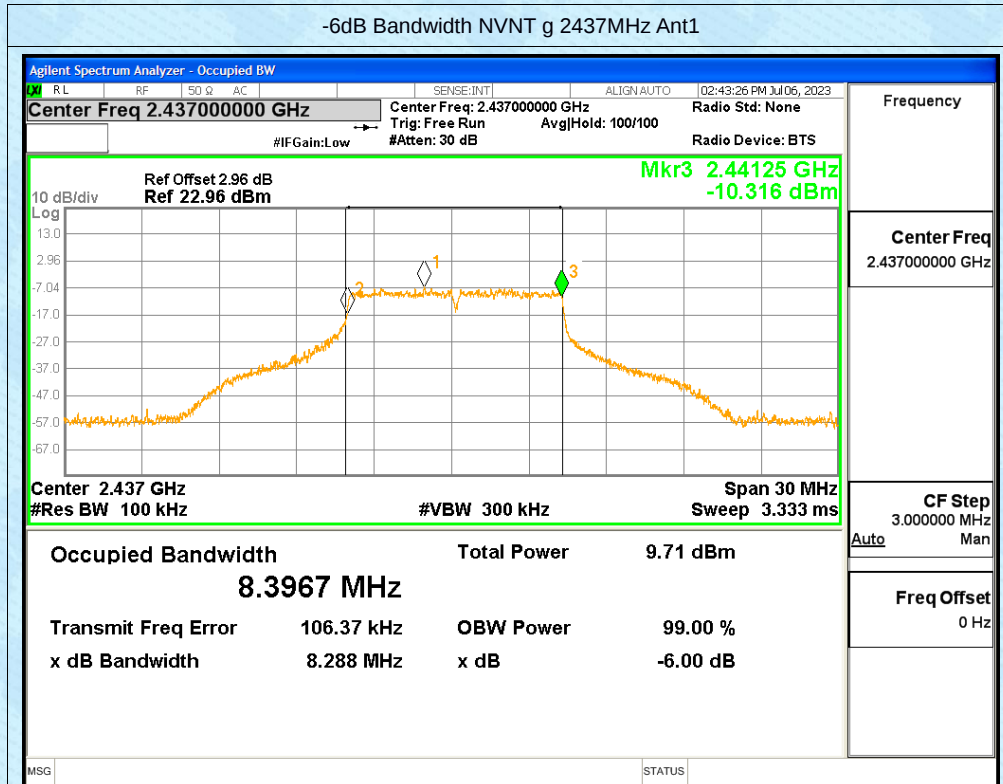


-6dB Bandwidth NVNT g 2412MHz Ant1

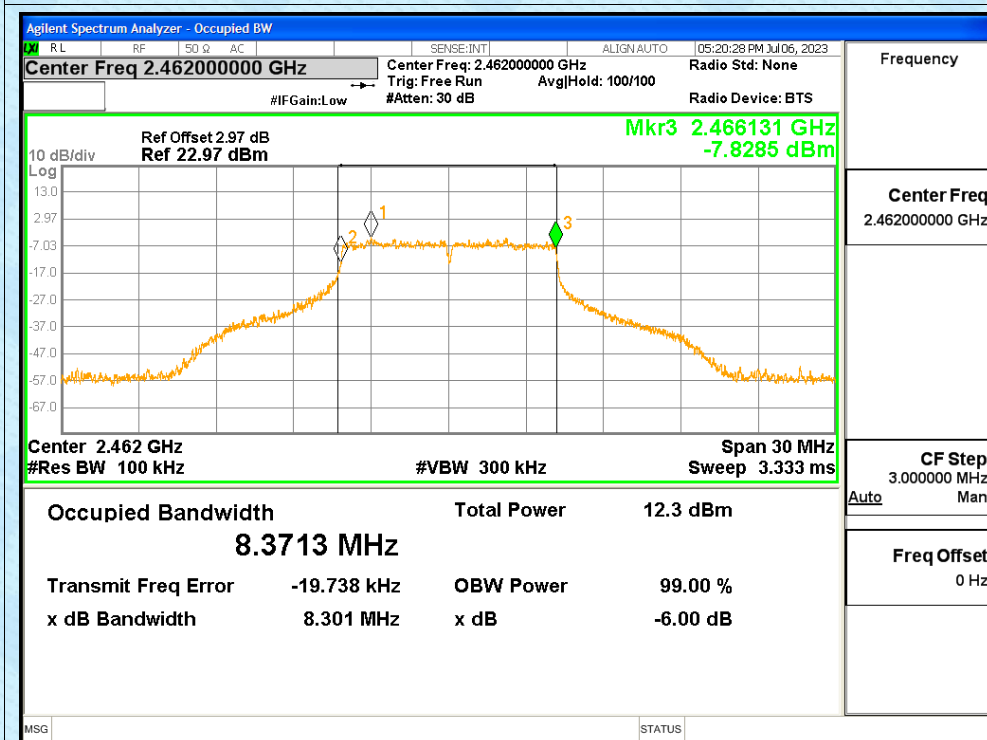


-6dB Bandwidth NVNT g 2412MHz Ant2

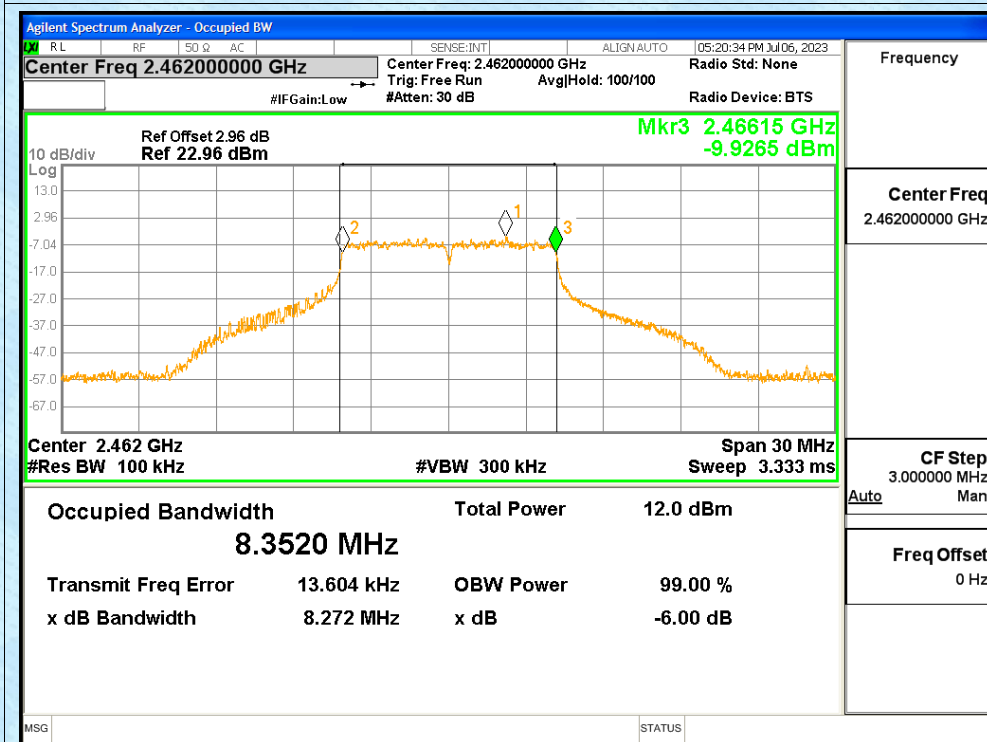


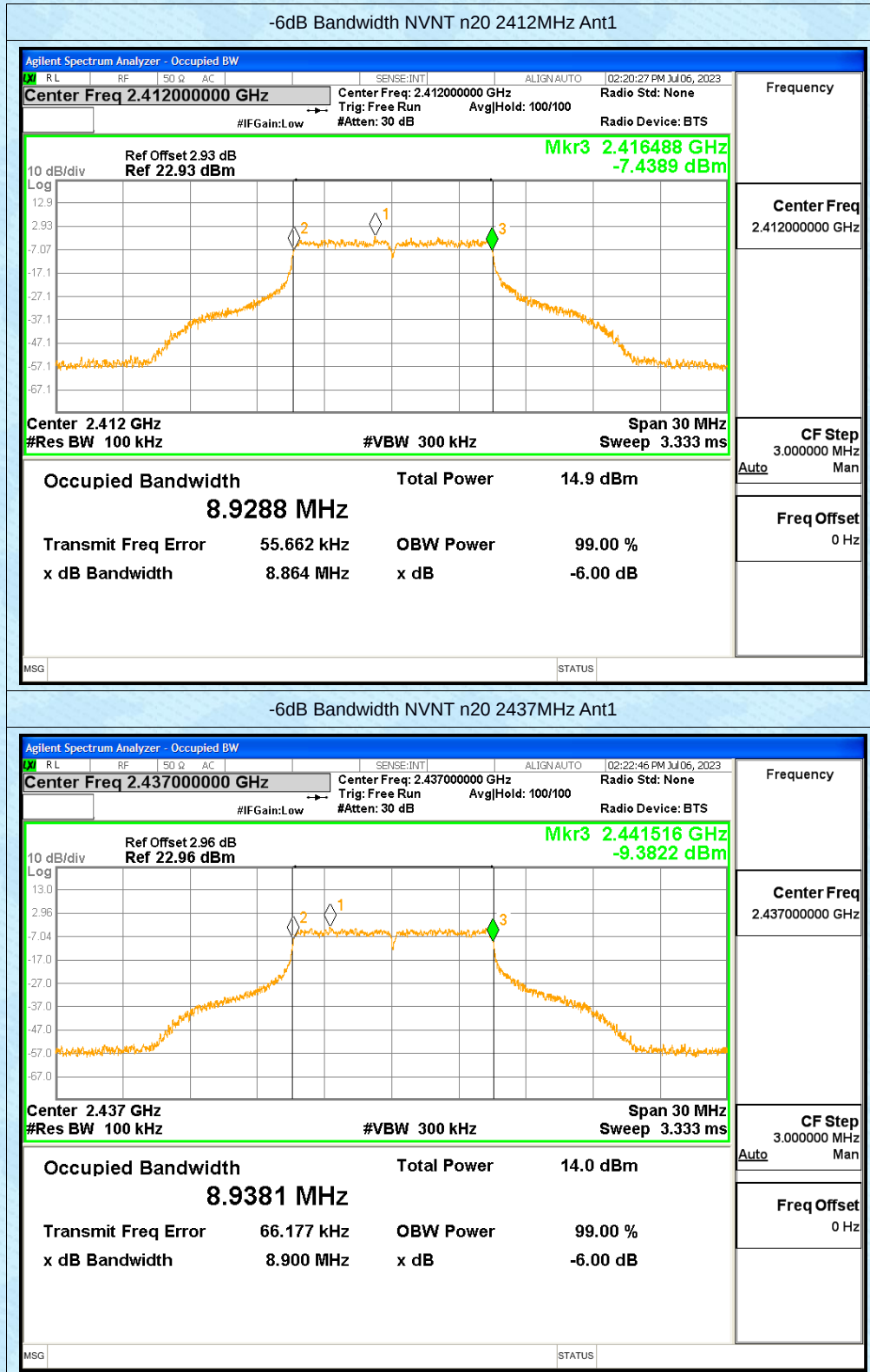


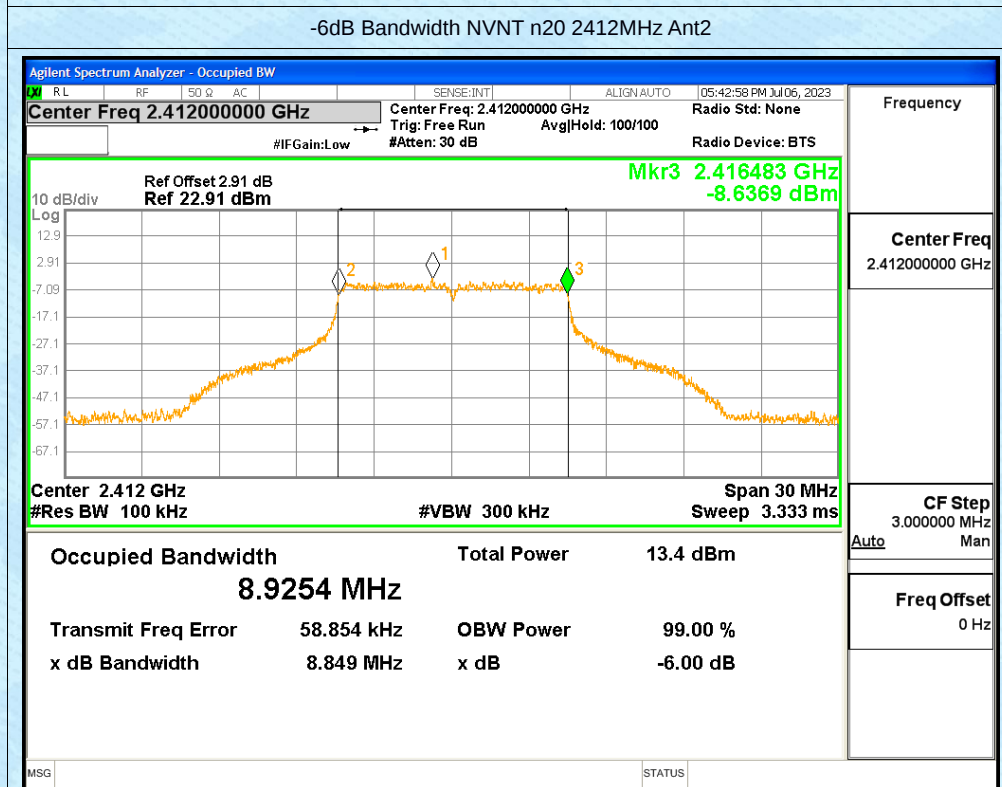
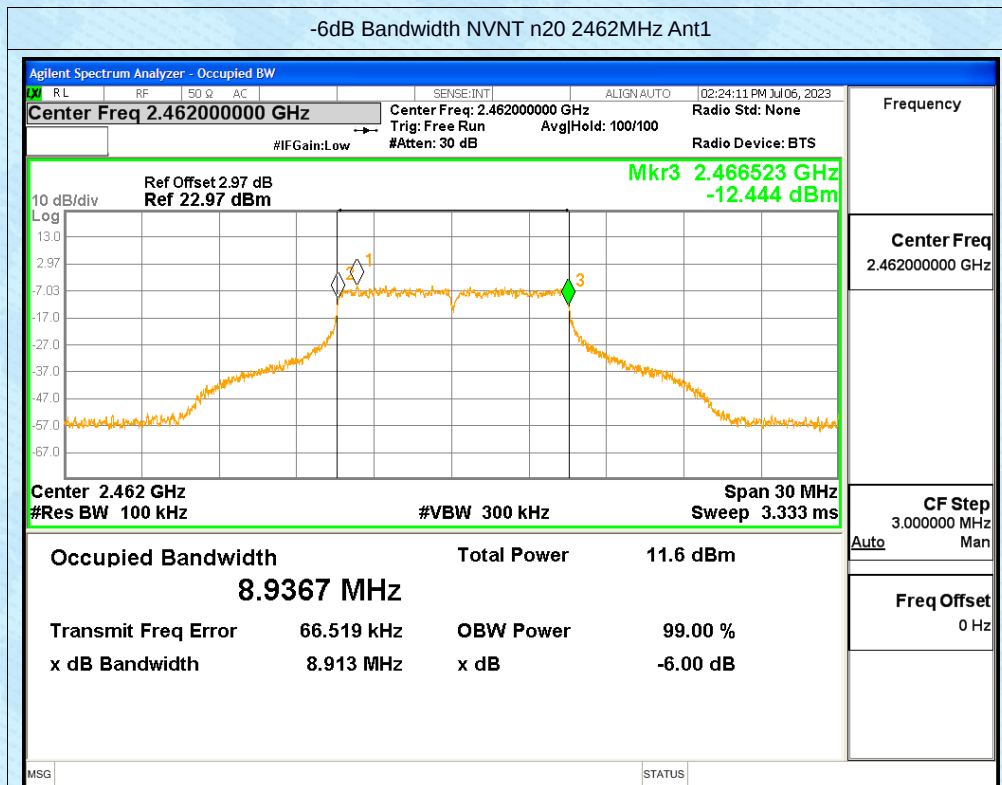
-6dB Bandwidth NVNT g 2462MHz Ant1

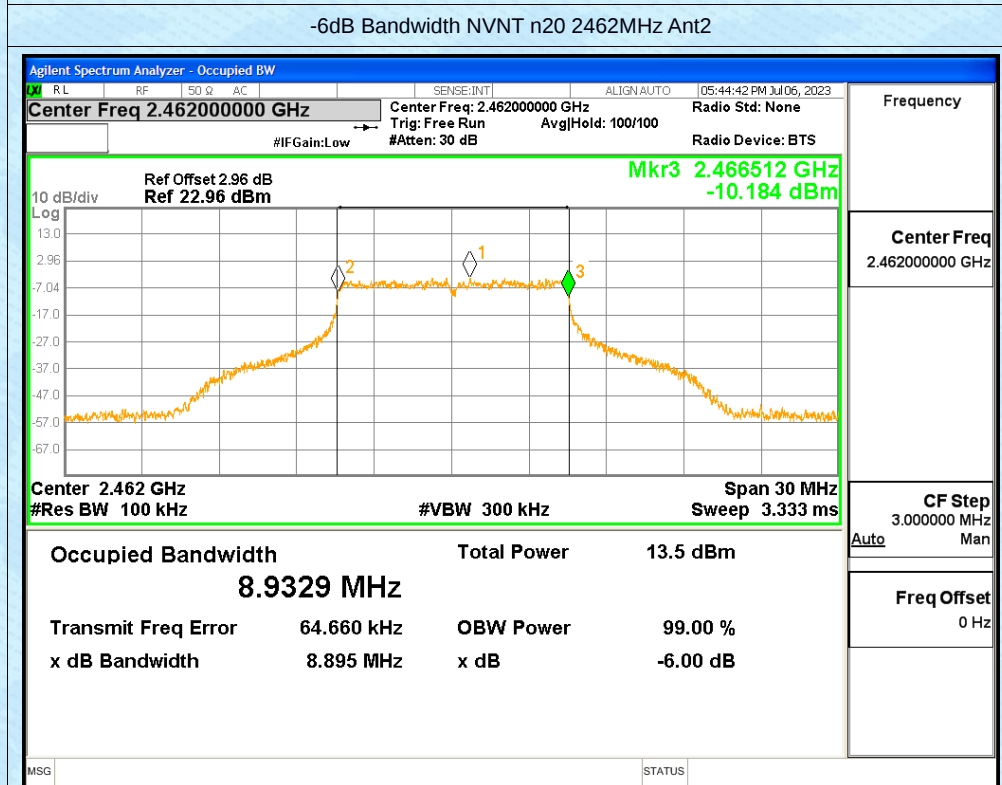
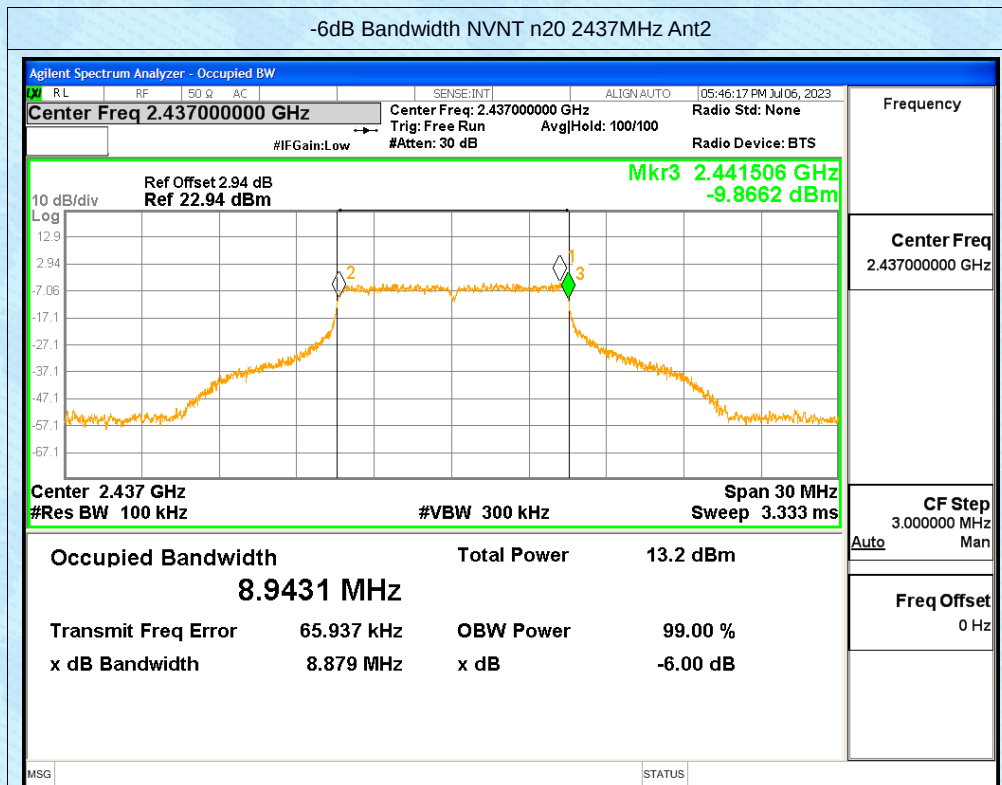


-6dB Bandwidth NVNT g 2462MHz Ant2

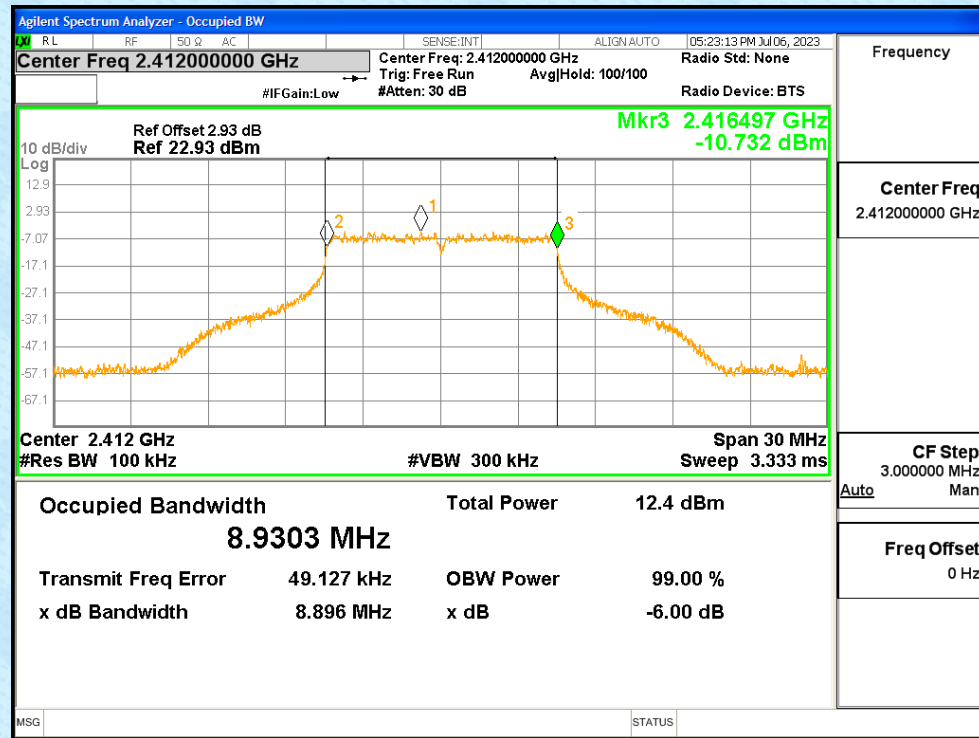




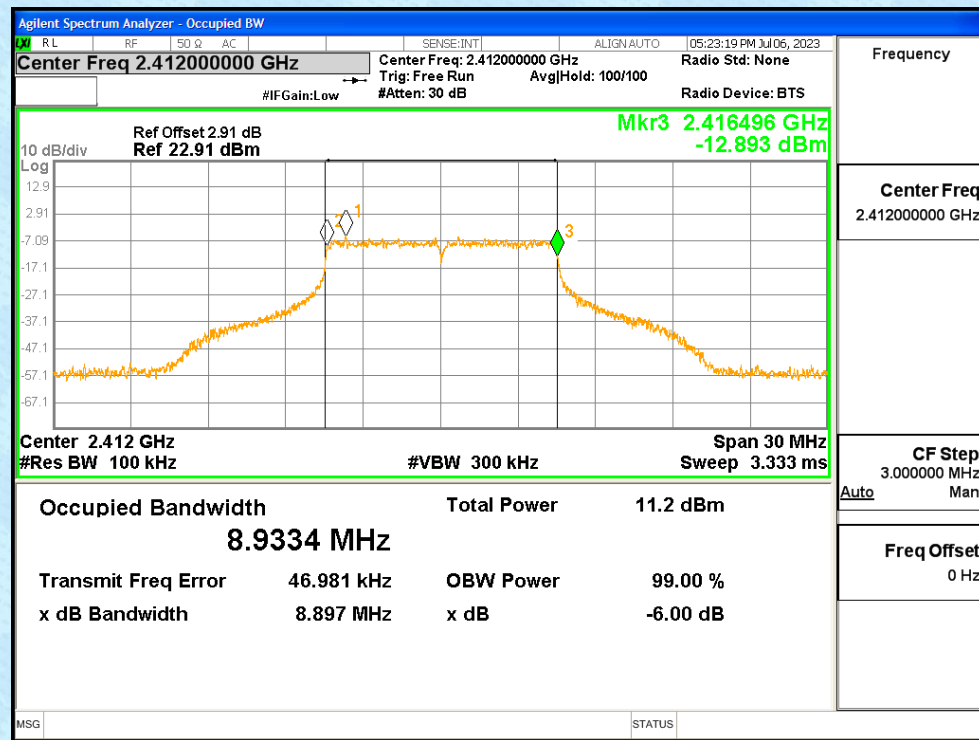


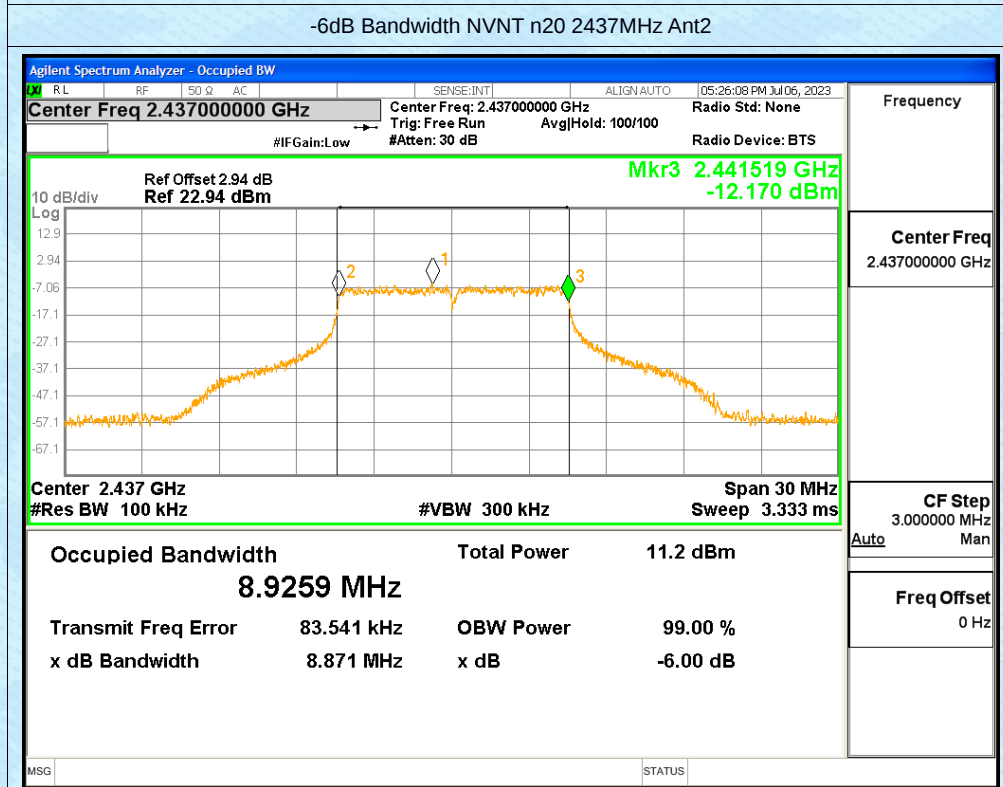
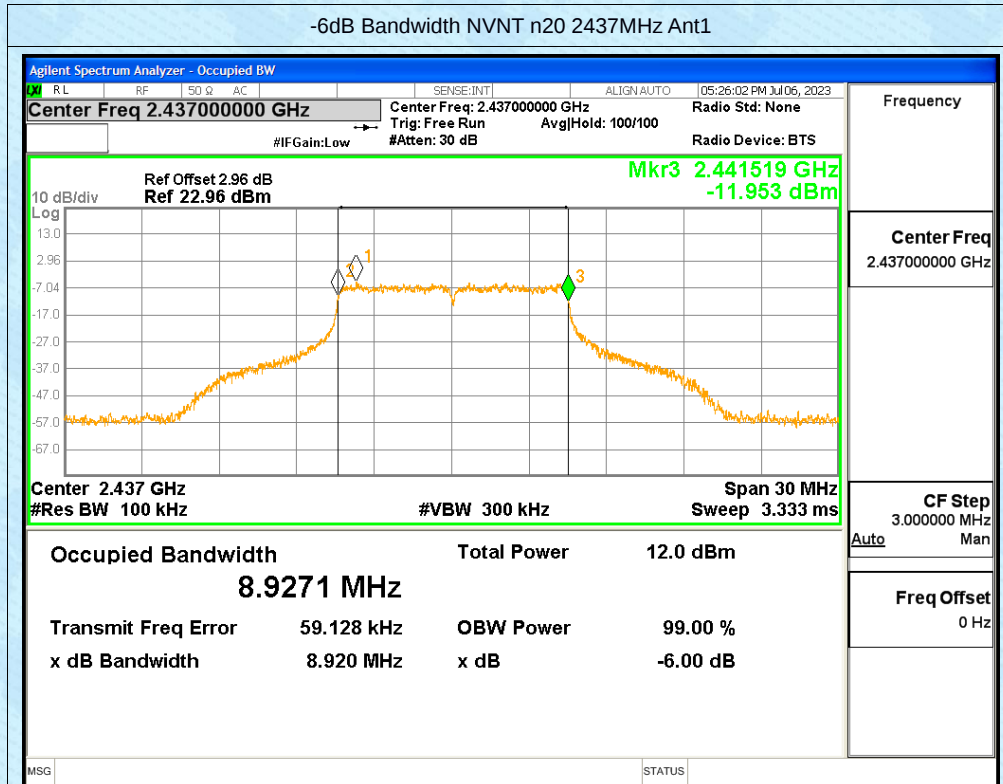


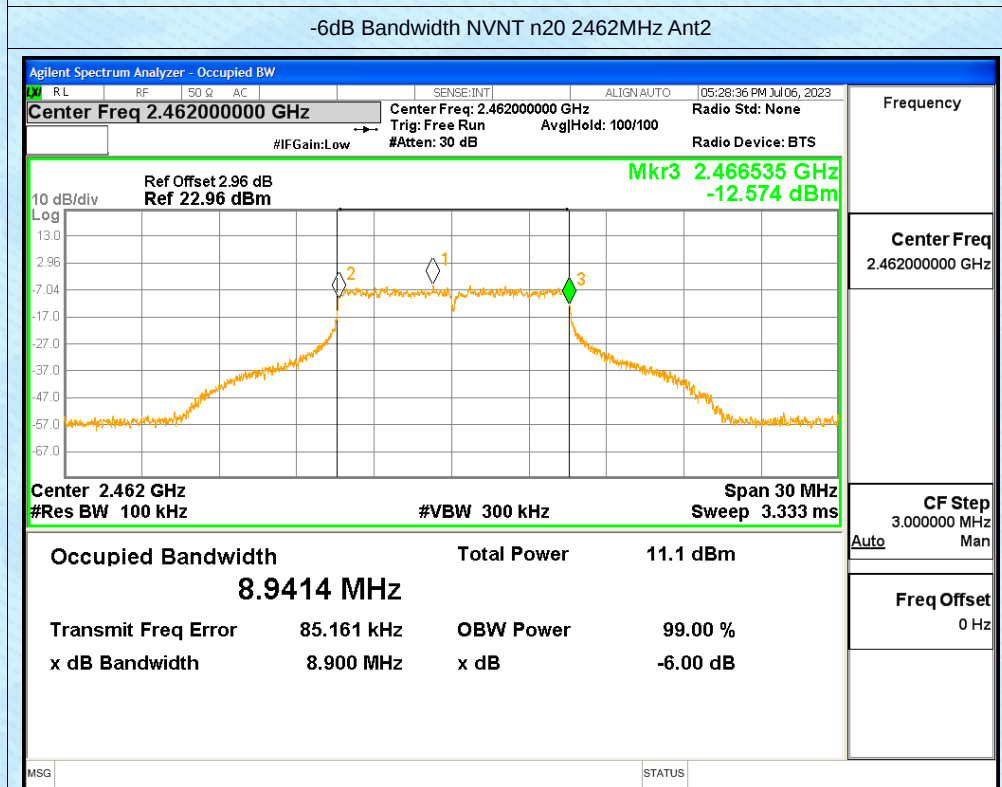
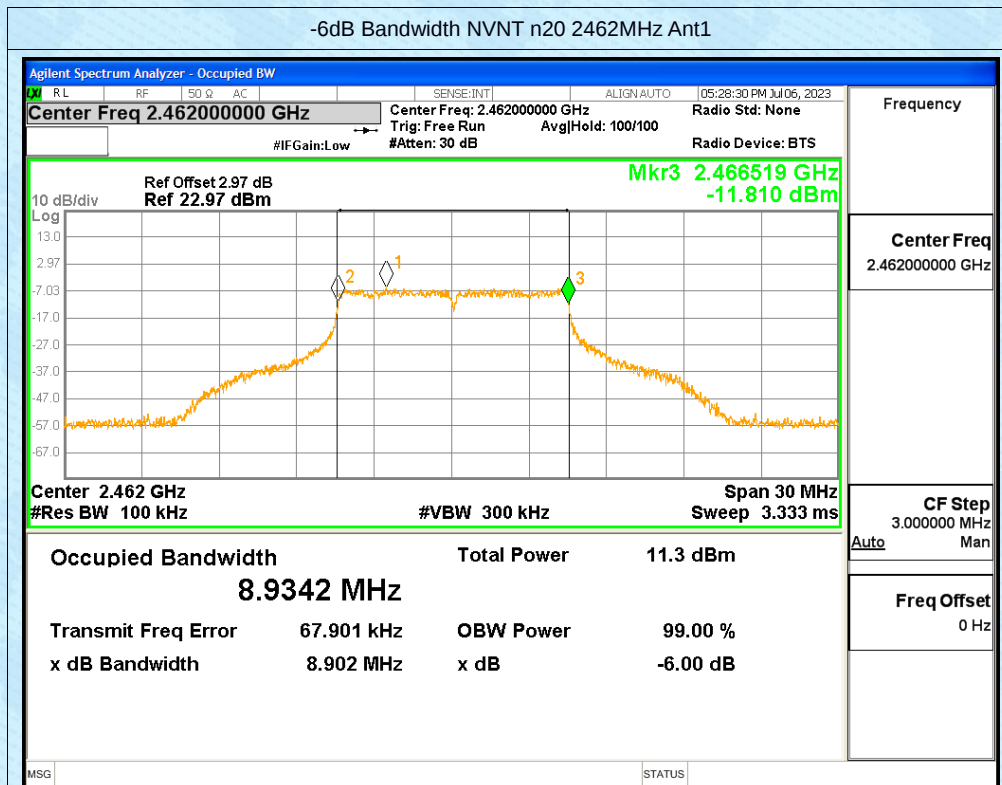
-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2412MHz Ant2





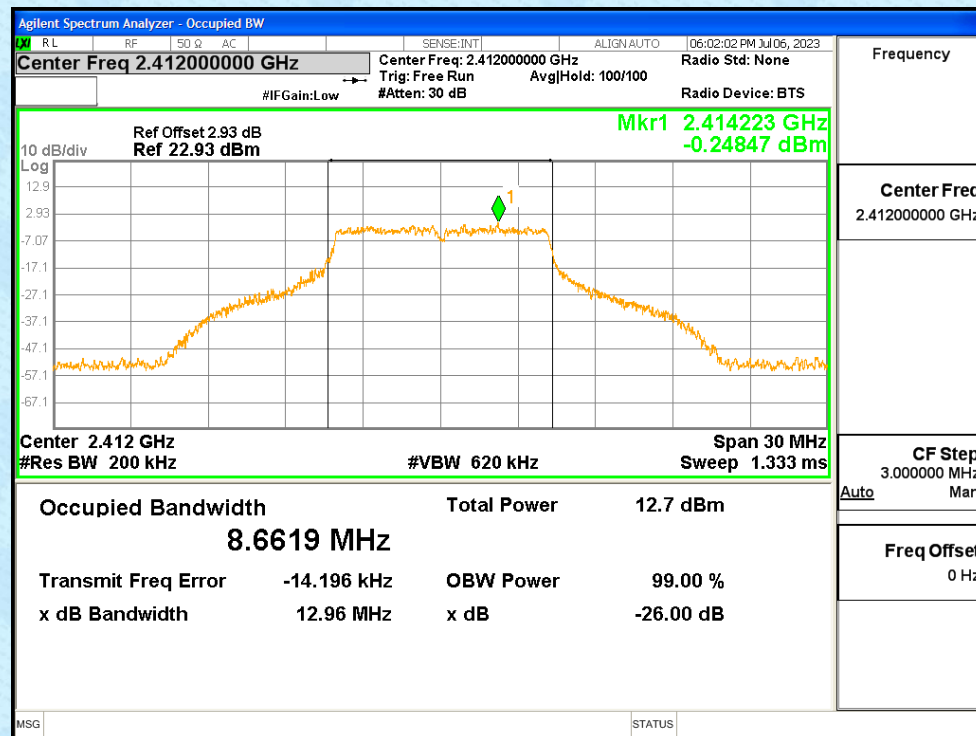


Occupied Channel Bandwidth

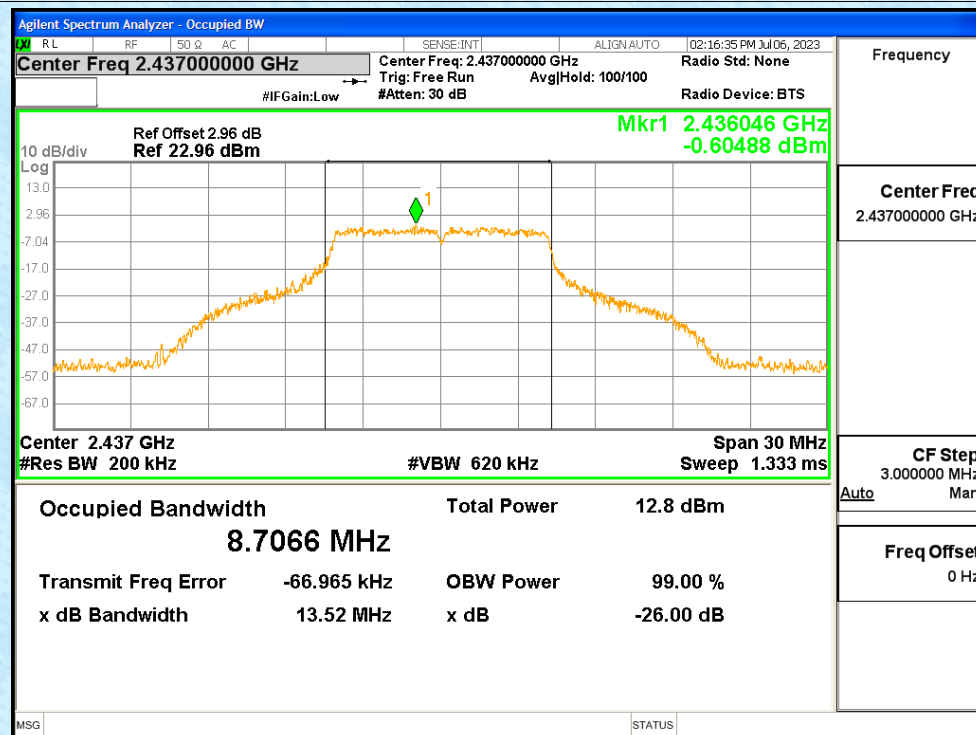
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	g	2412	Ant1	8.662
		2437		8.707
		2462		8.688
		2412	Ant2	8.702
		2437		8.711
		2462		8.707
		2412	Ant1	8.655
			Ant2	8.649
		2437	Ant1	8.706
			Ant2	8.622
		2462	Ant1	8.67
			Ant2	8.653
	n20	2412	Ant1	9.173
		2437		9.194
		2462		9.16
		2412	Ant2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

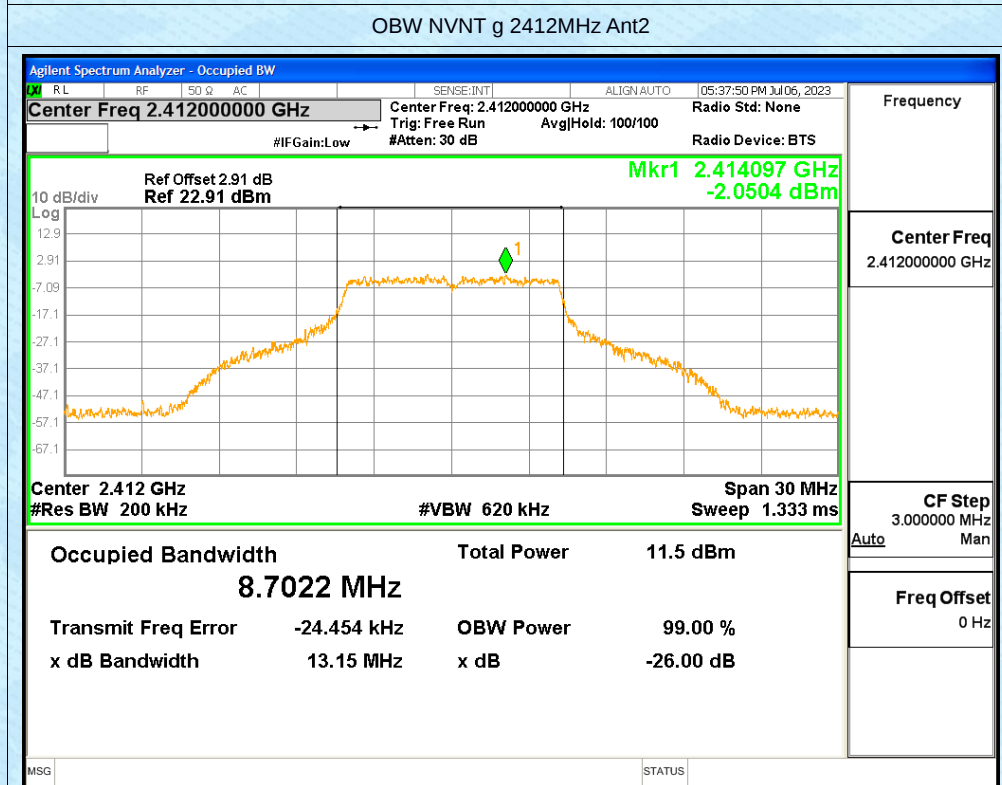
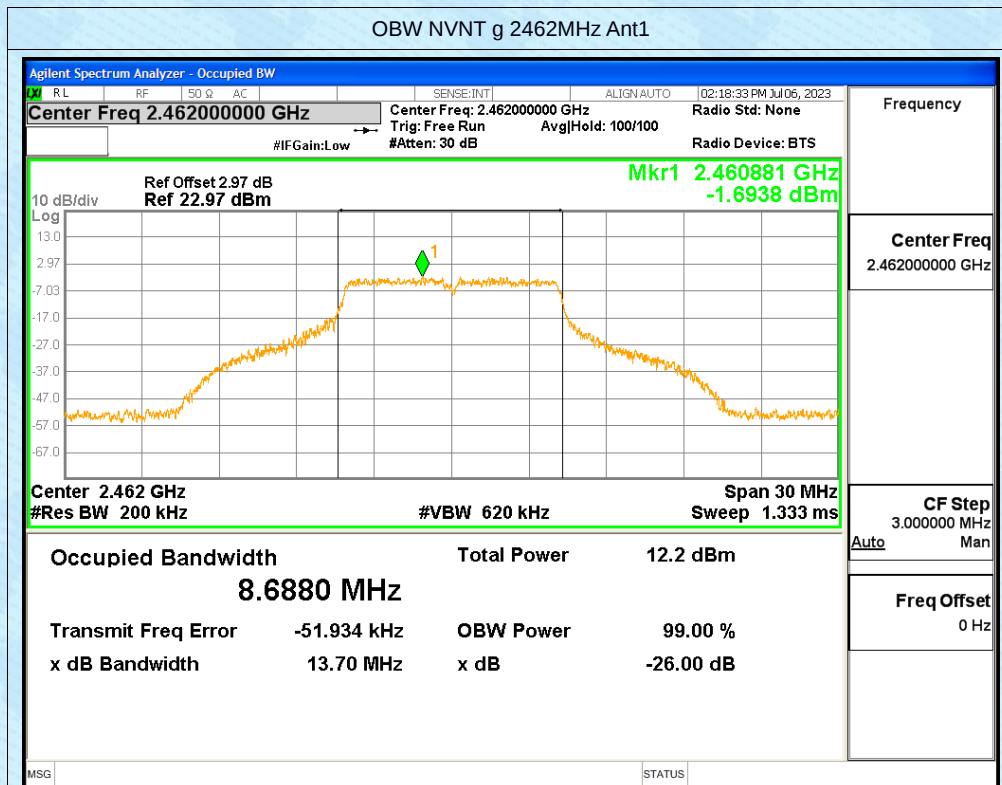
Test Graphs

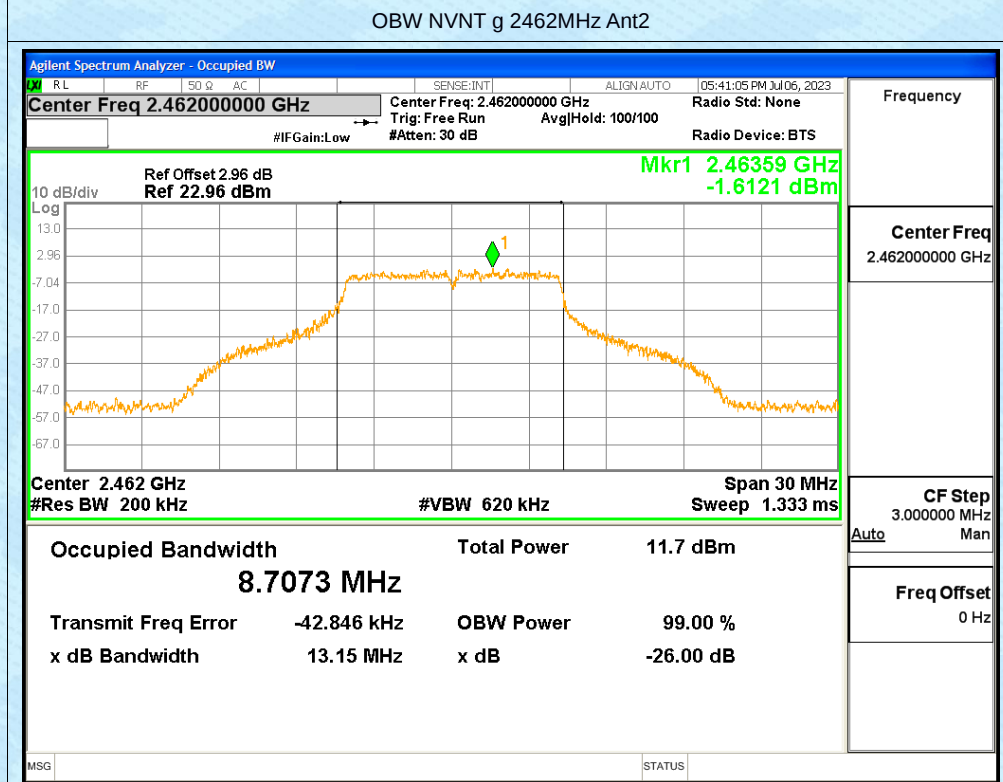
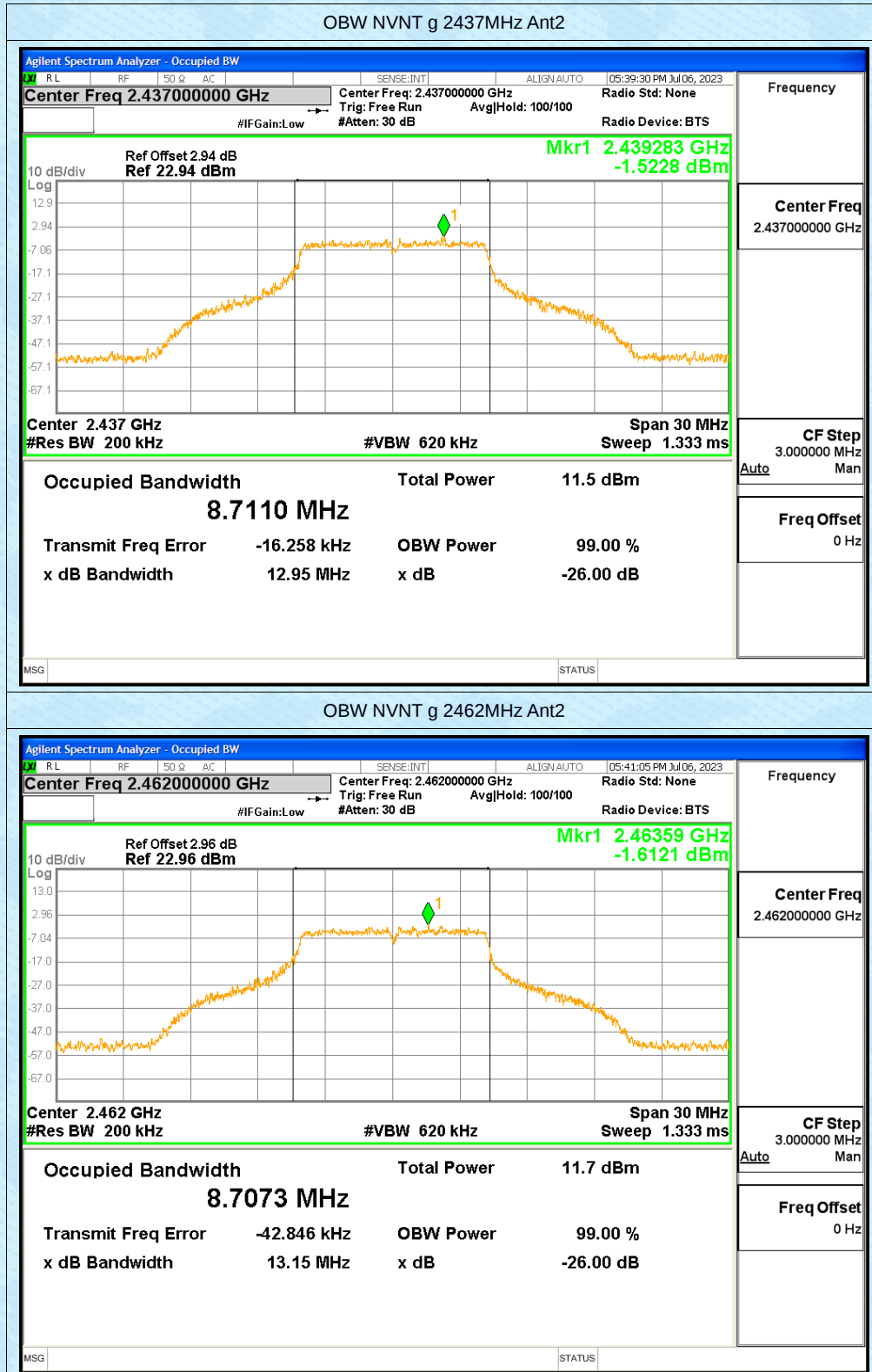
OBW NVNT g 2412MHz Ant1

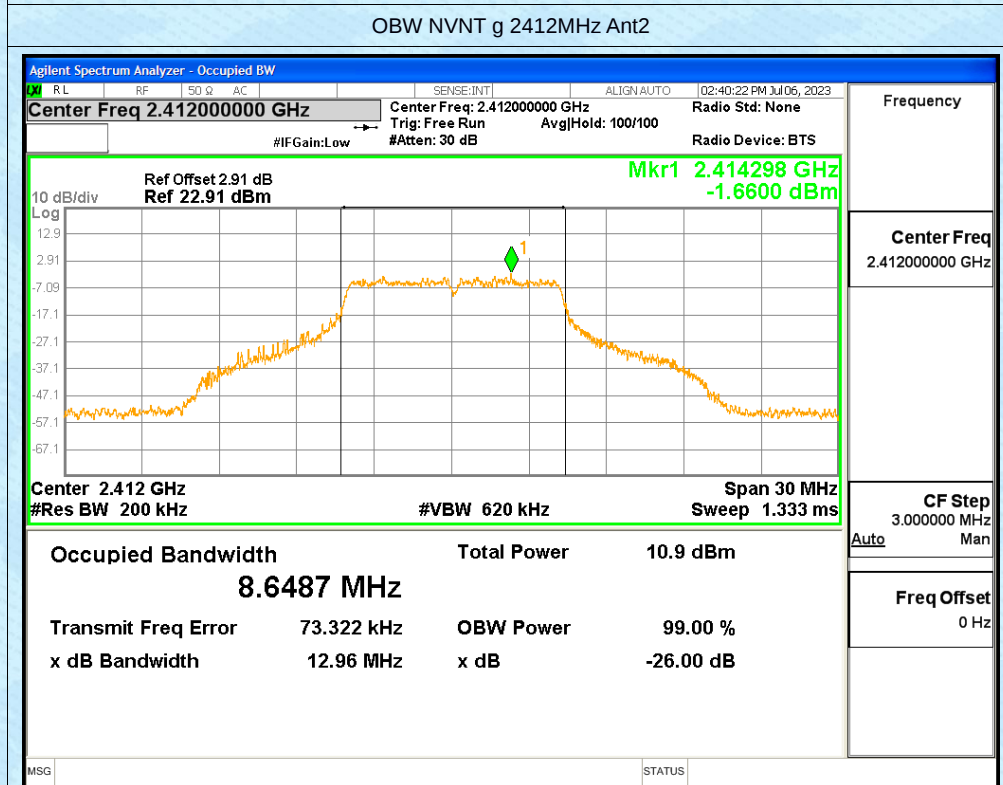
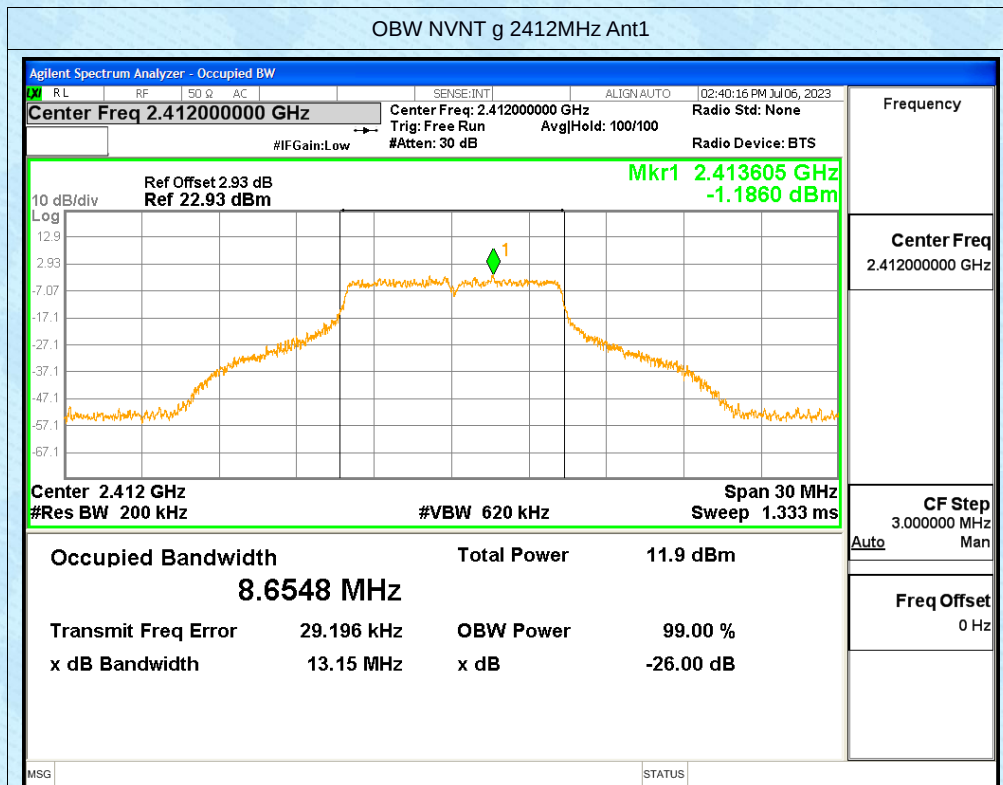


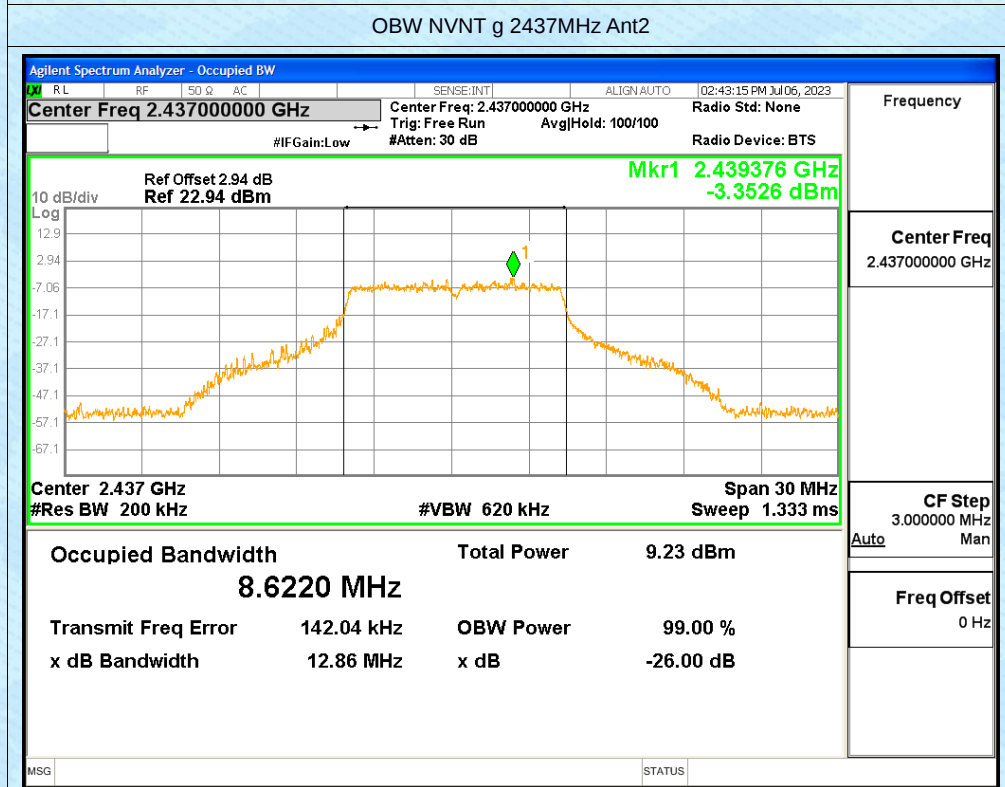
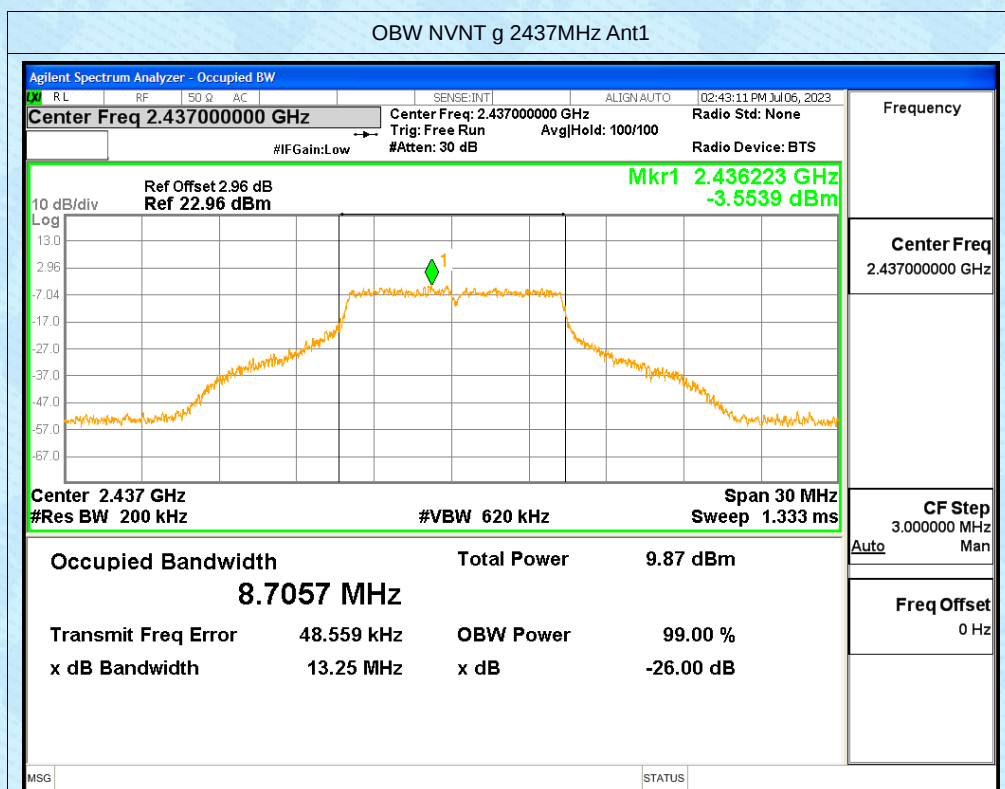
OBW NVNT g 2437MHz Ant1

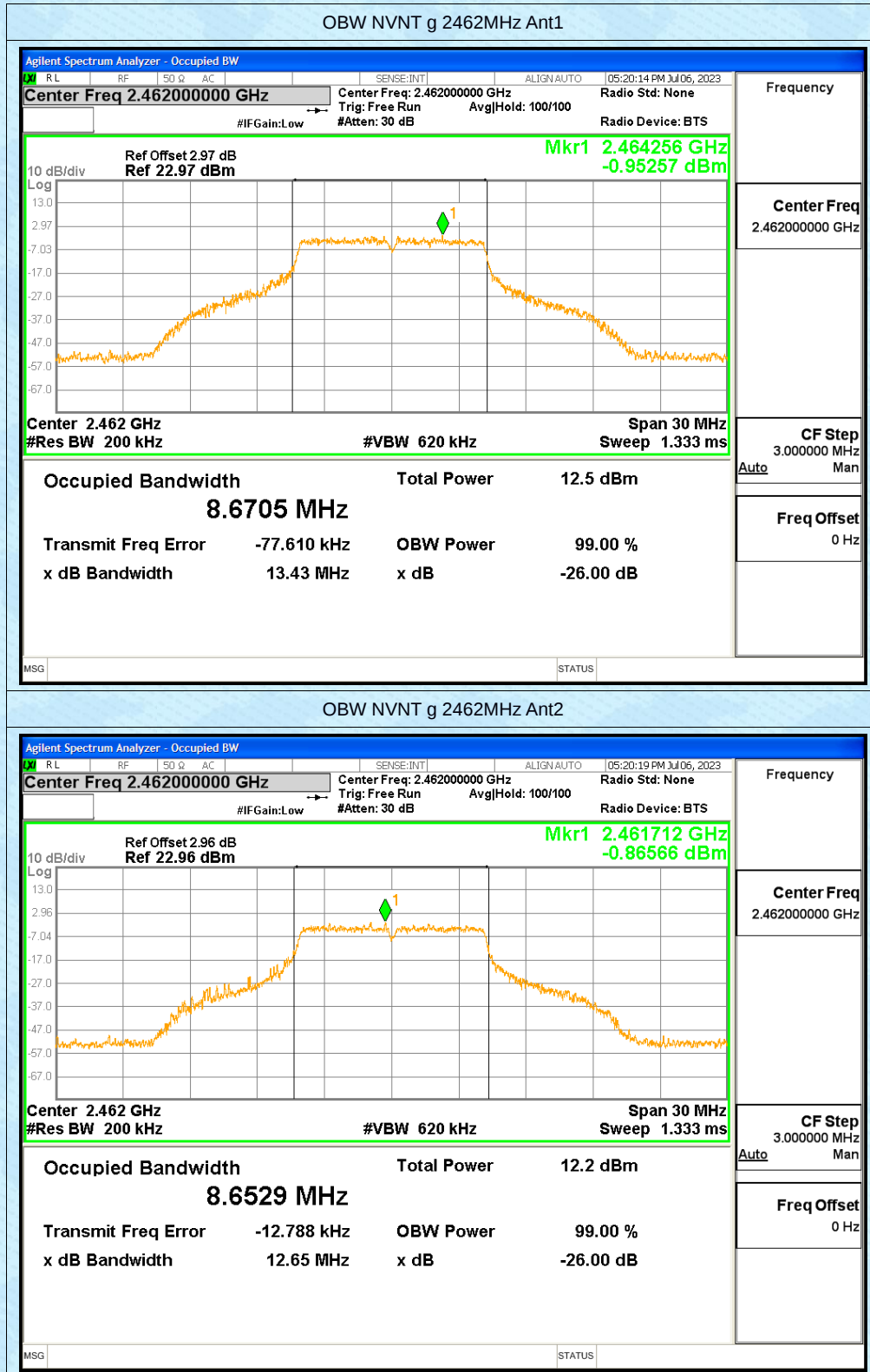


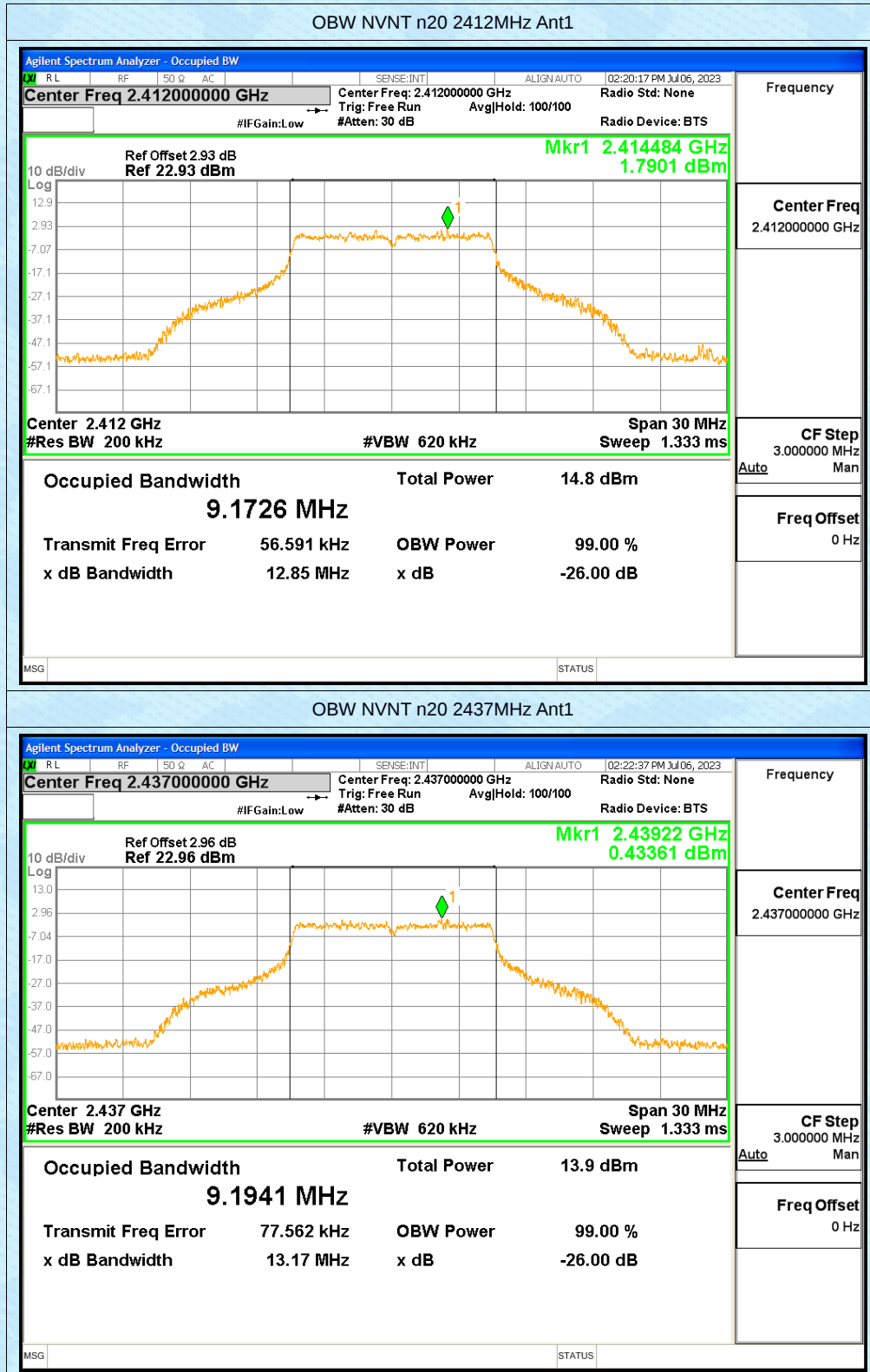


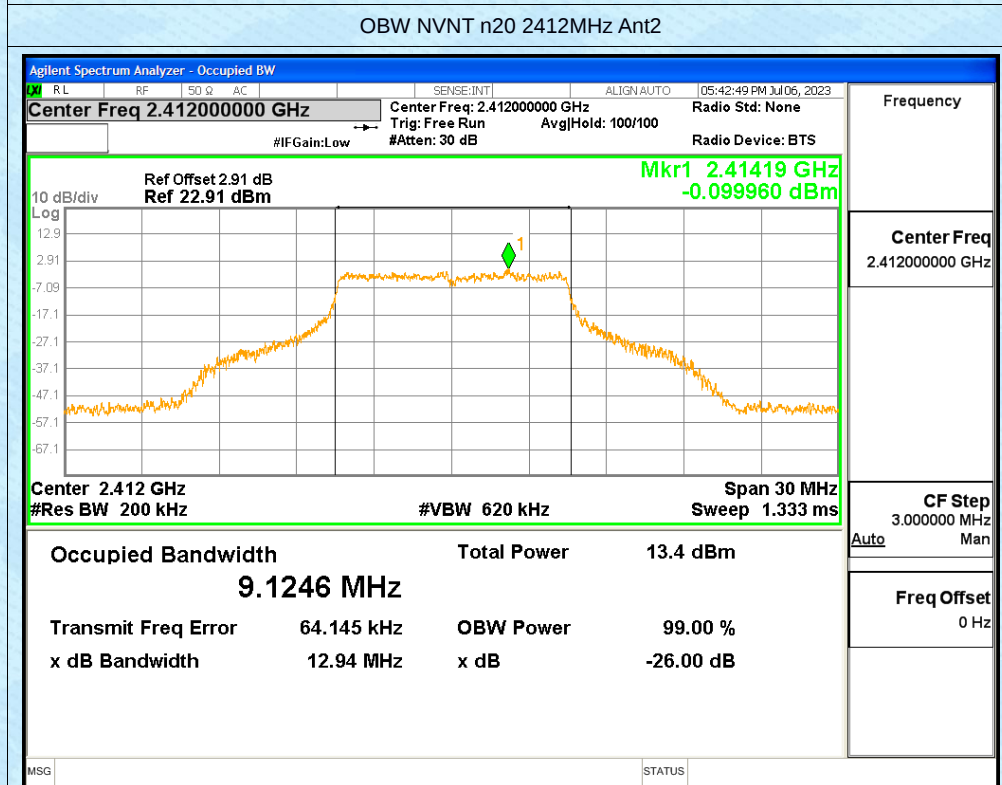
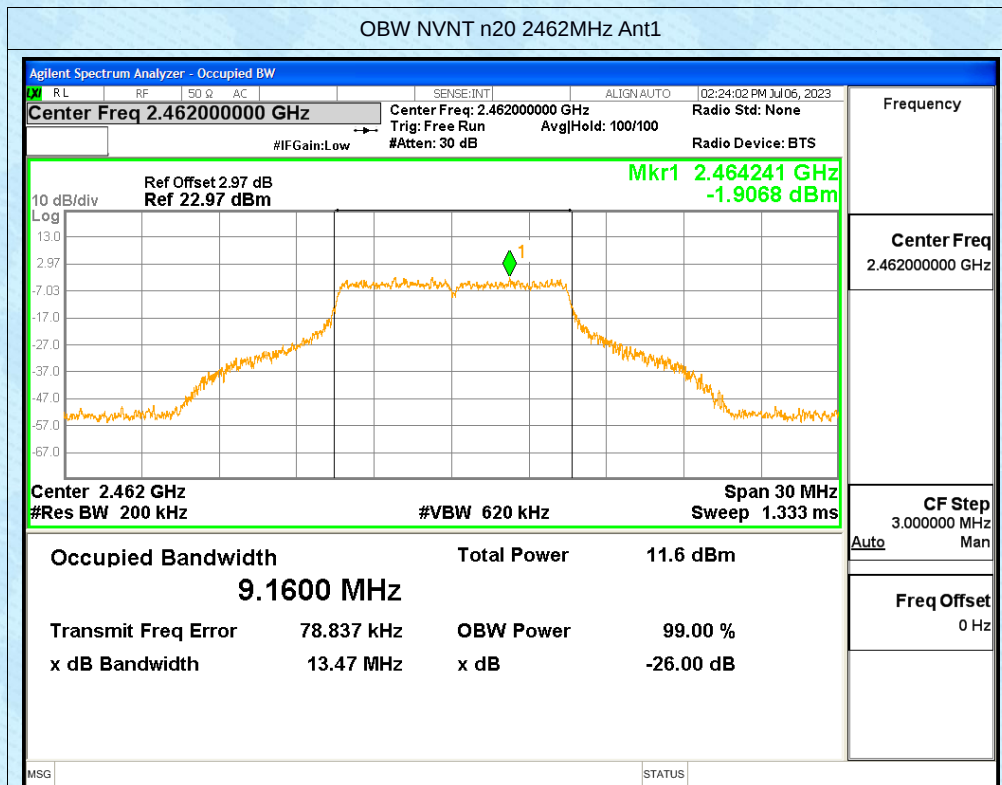


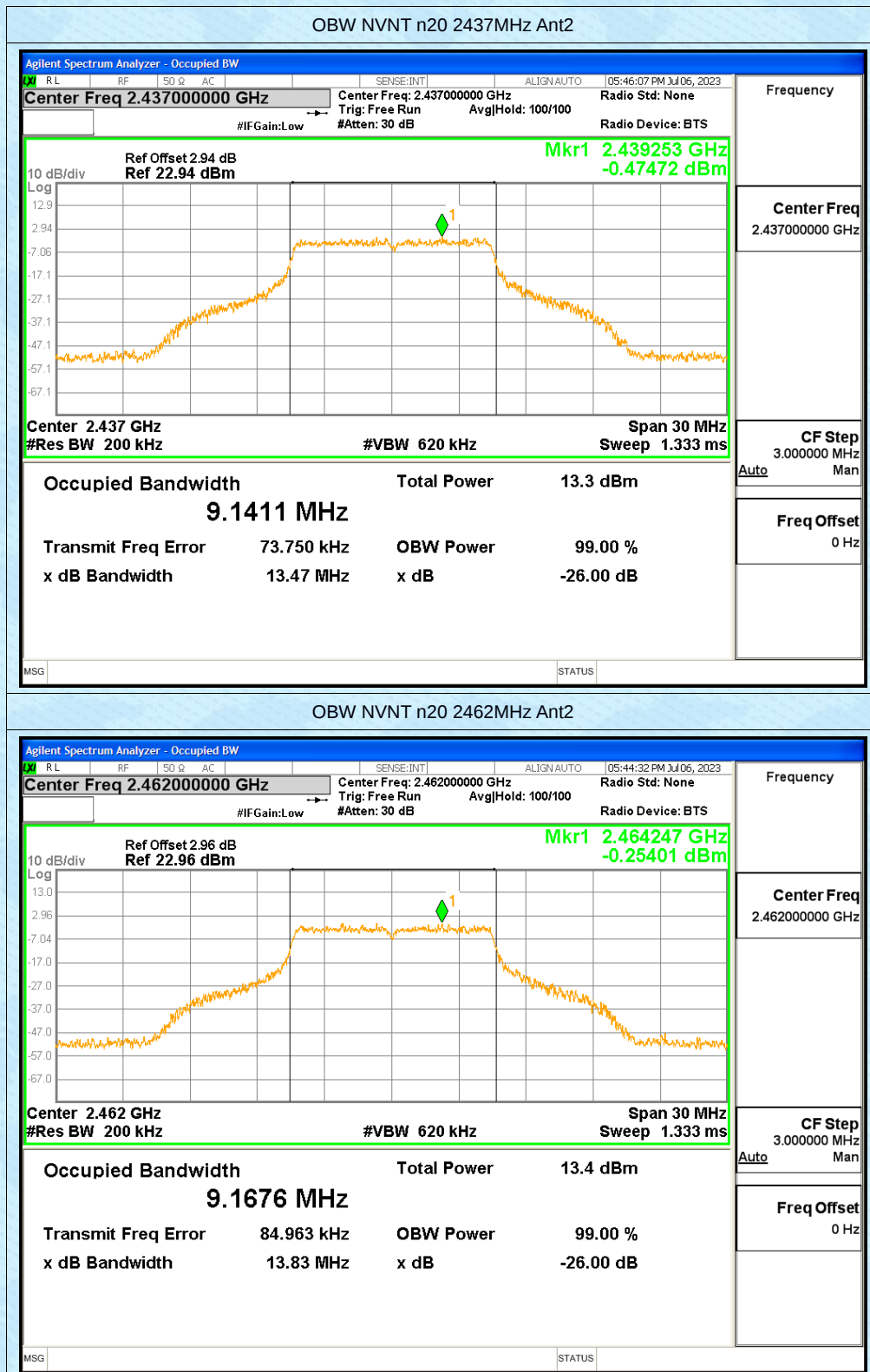


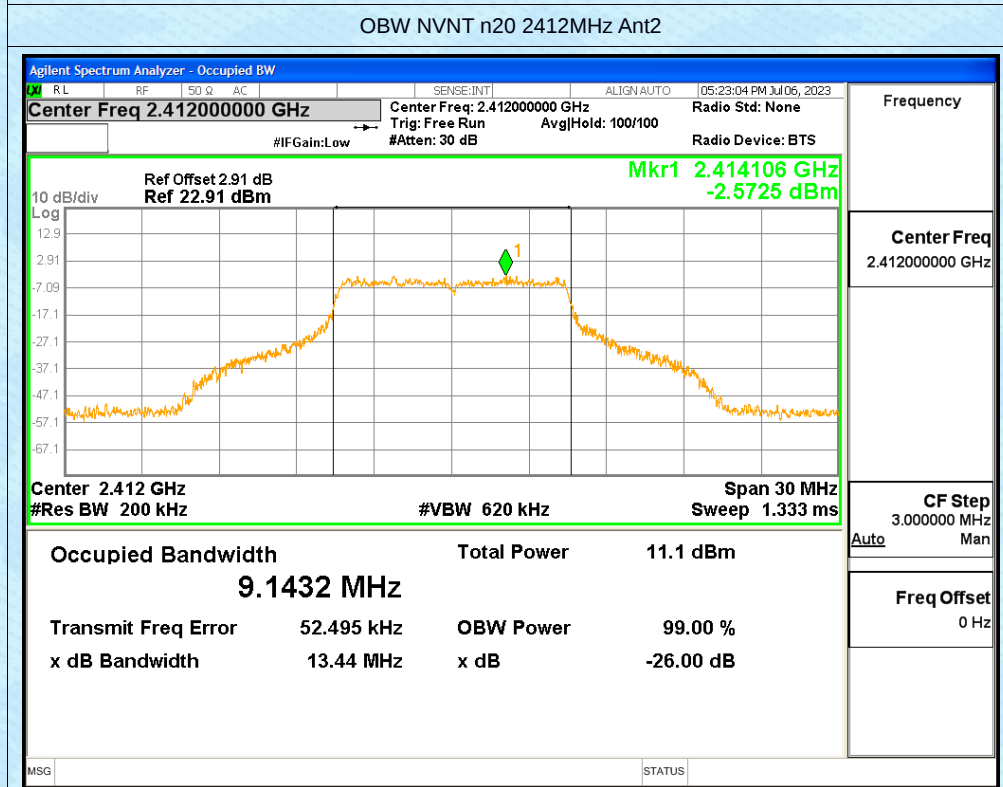
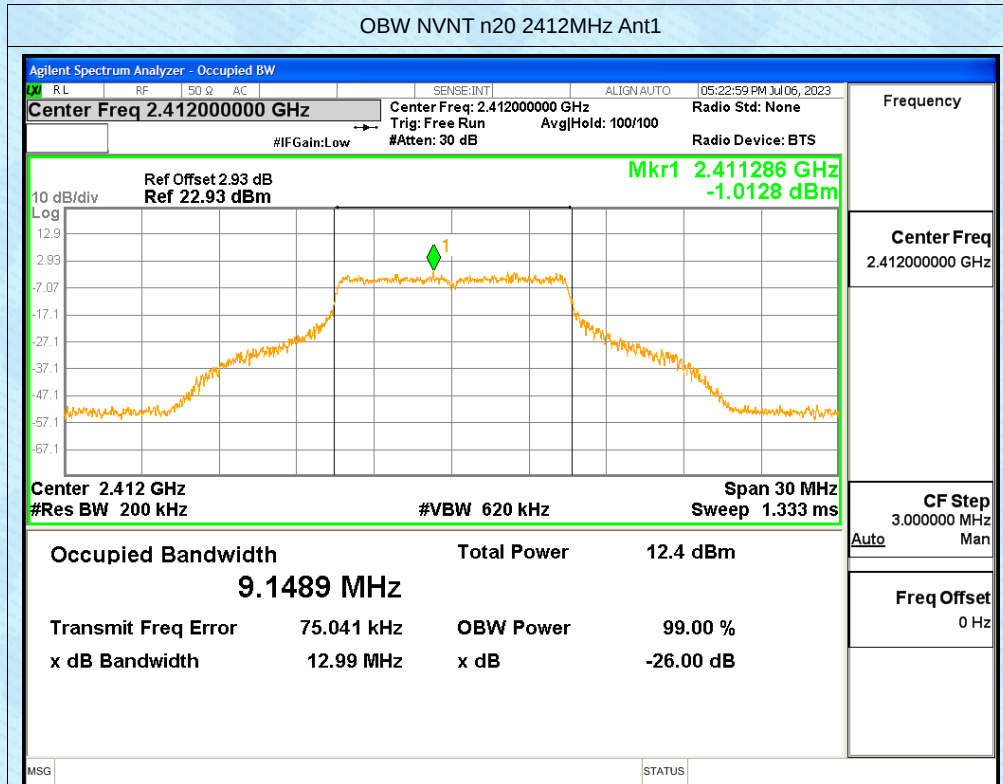


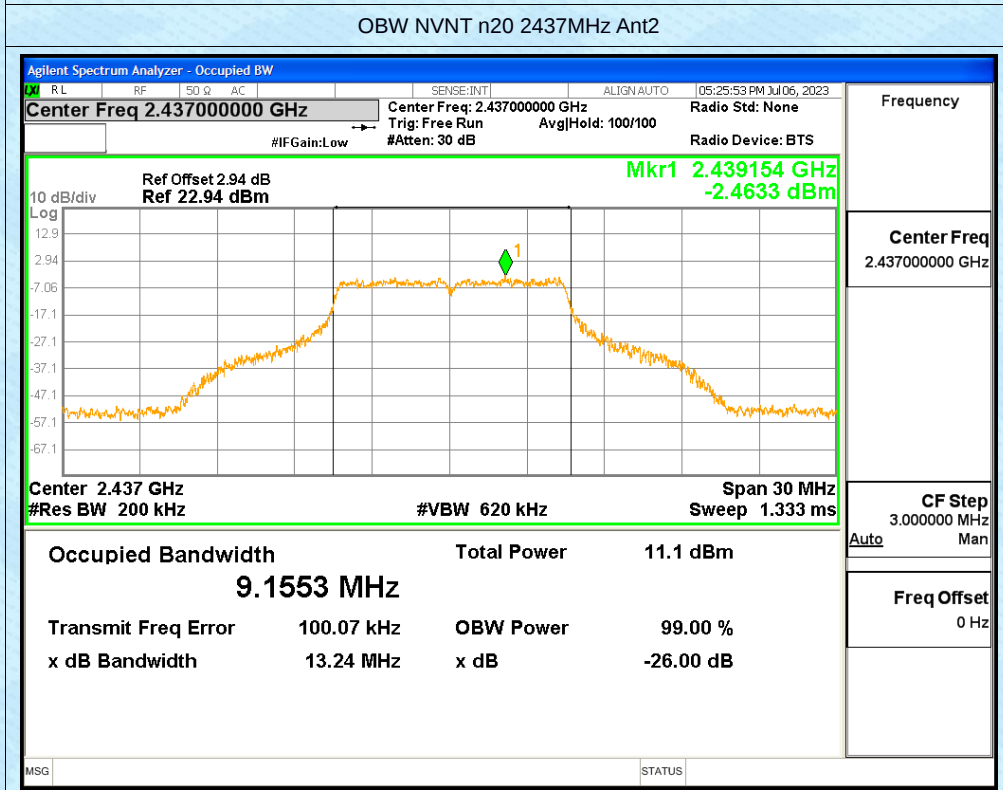
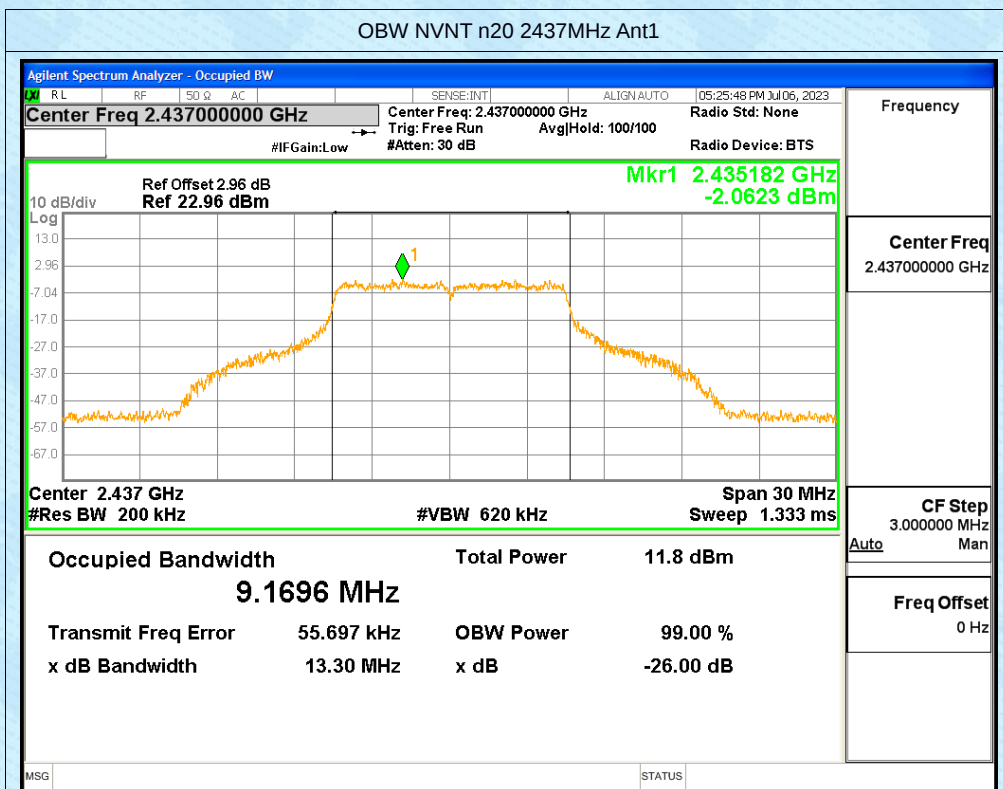


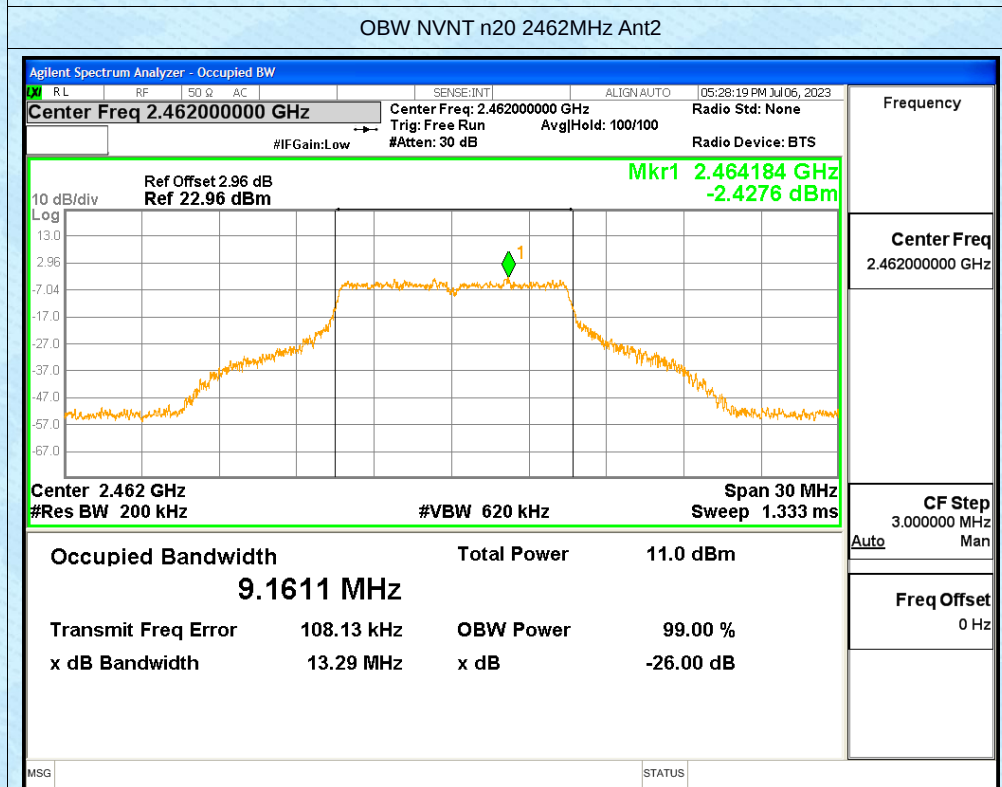
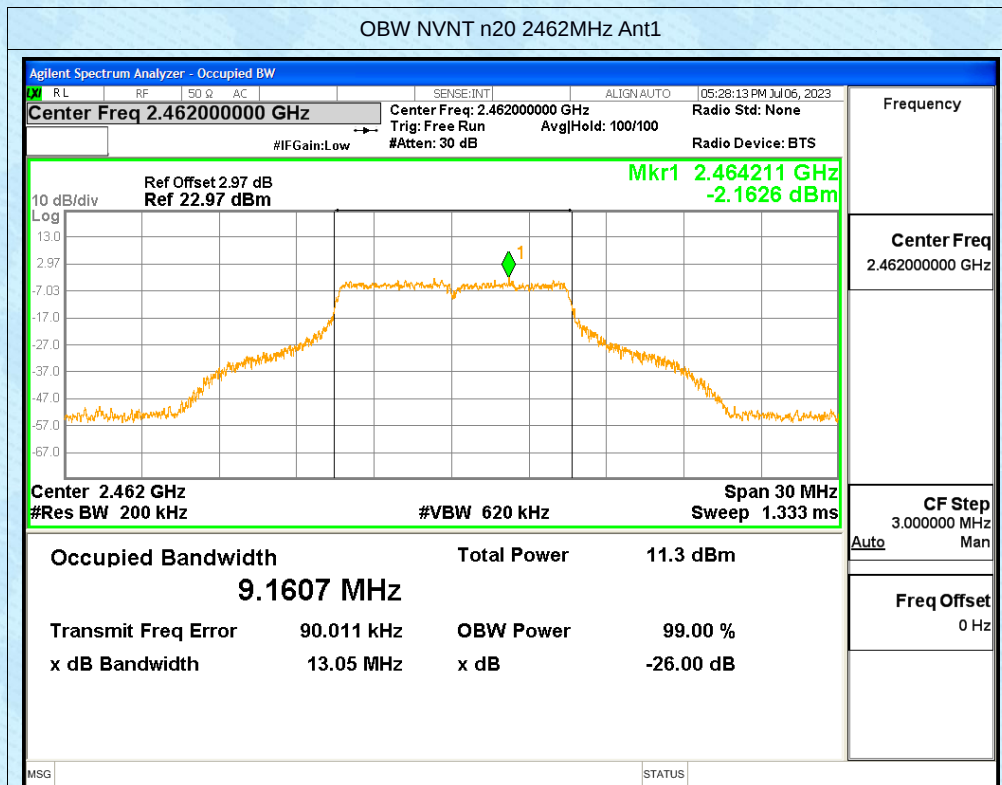












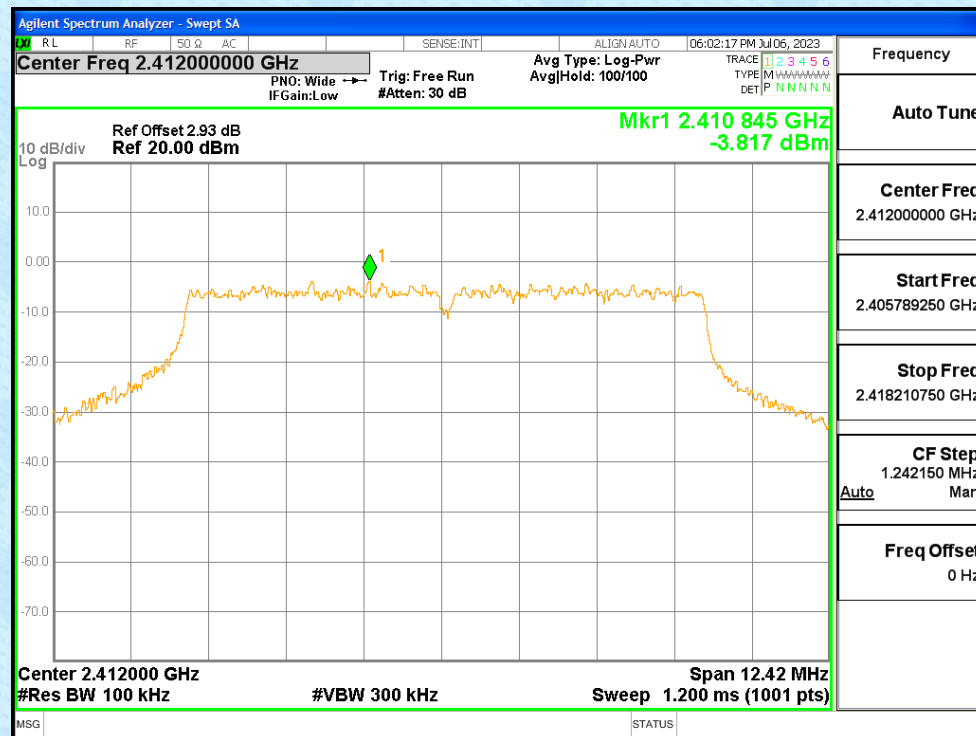
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	g	2412	Ant1	-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	2412	Ant1	-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
		2437		-3.59	0	-3.59	8	Pass
		2462		-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

