

## Appendix for 15.247

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## Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	g	2412	Ant1/2	92.81	0.32	0.48
		2437		93.99	0.27	0.48
		2462		97.91	0.09	0.48
	n20	Ant1	2412	93.56	0.29	0.48
			2437	96.27	0.17	0.48
			2462	96.36	0.16	0.48
		Ant2	2412	98.38	0	0.48
			2437	95.47	0.2	0.48
			2462	93.14	0.31	0.48

### Test Graphs

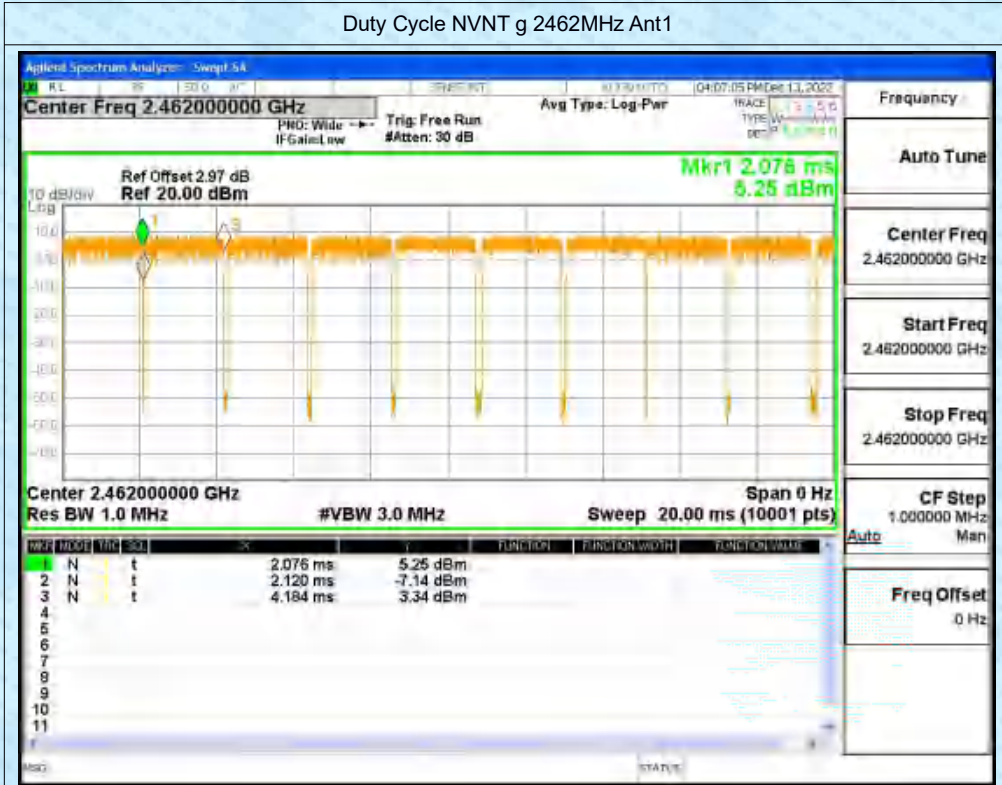
Duty Cycle NVNT g 2412MHz Ant1



Duty Cycle NVNT g 2437MHz Ant1



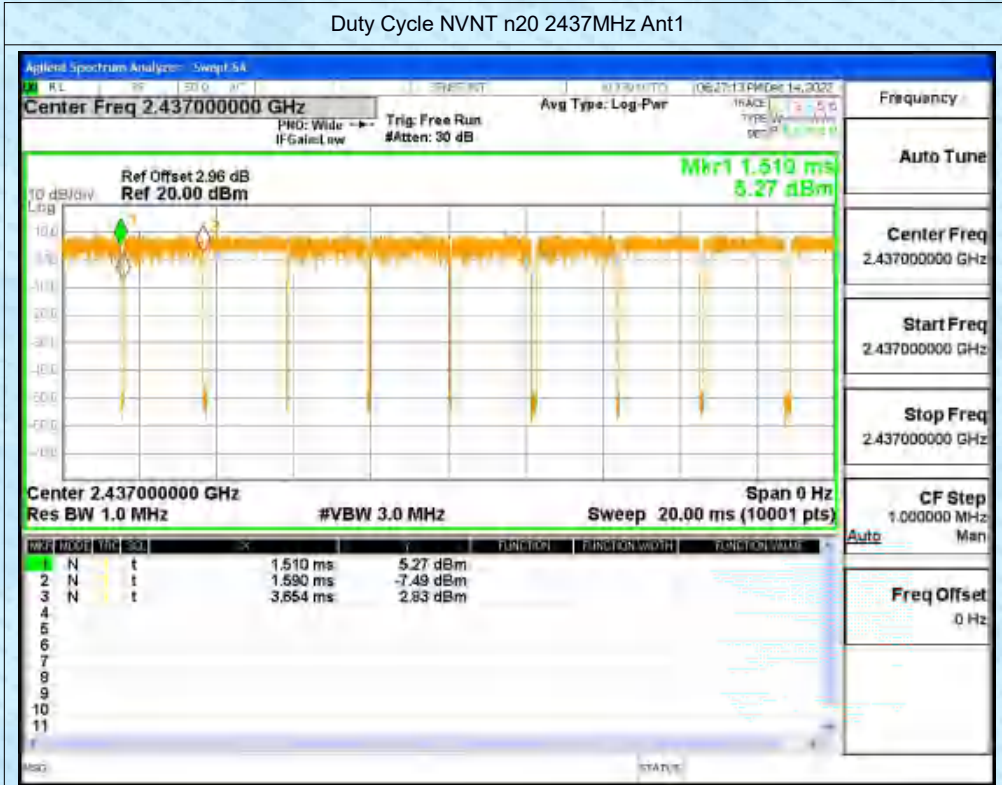
Duty Cycle NVNT g 2462MHz Ant1



Duty Cycle NVNT n20 2412MHz Ant1



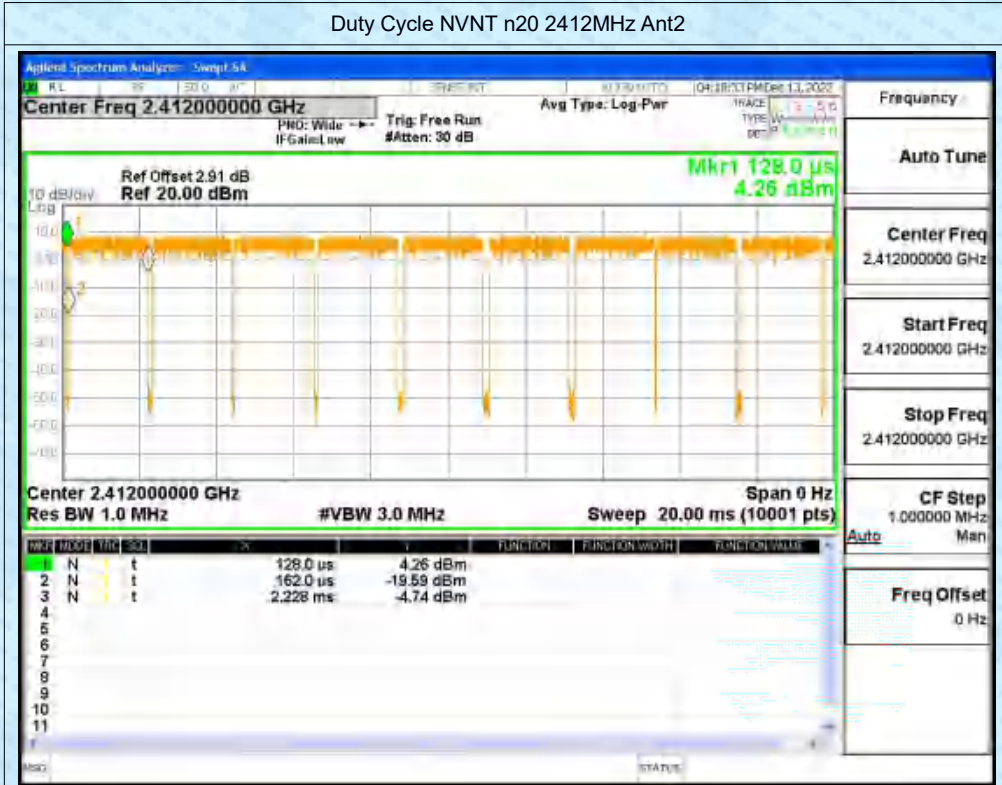
Duty Cycle NVNT n20 2437MHz Ant1



Duty Cycle NVNT n20 2462MHz Ant1

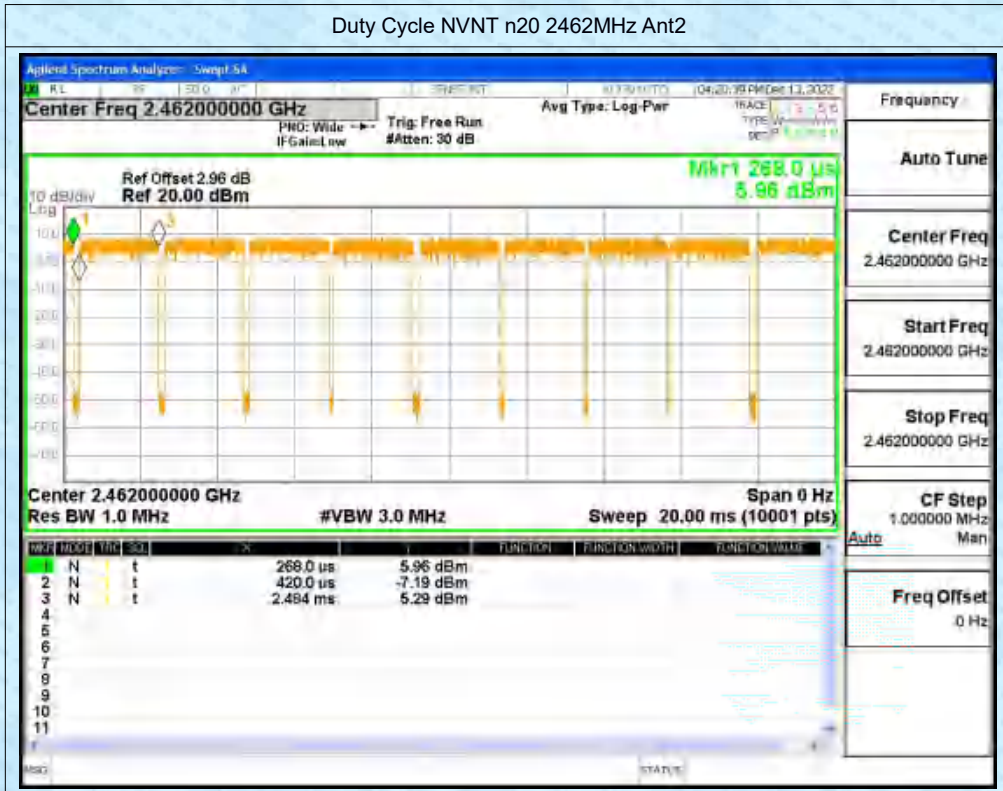


Duty Cycle NVNT n20 2412MHz Ant2



Duty Cycle NVNT n20 2437MHz Ant2





## 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	5.93	0	5.93	30	Pass
		2437		5.55	0	5.55	30	Pass
		2462		5.00	0	5.00	30	Pass
		2412	Ant1	5.93	0	5.93	30	Pass
			Ant2	5.00	0	5.00	30	Pass
			Sum	8.50	0	8.50	30	Pass
	n20	2437	Ant1	5.90	0	5.90	30	Pass
			Ant2	5.05	0	5.05	30	Pass
			Sum	8.50	0	8.50	30	Pass
		2462	Ant1	5.85	0	5.85	30	Pass
			Ant2	5.00	0	5.00	30	Pass
			Sum	8.45	0	8.45	30	Pass

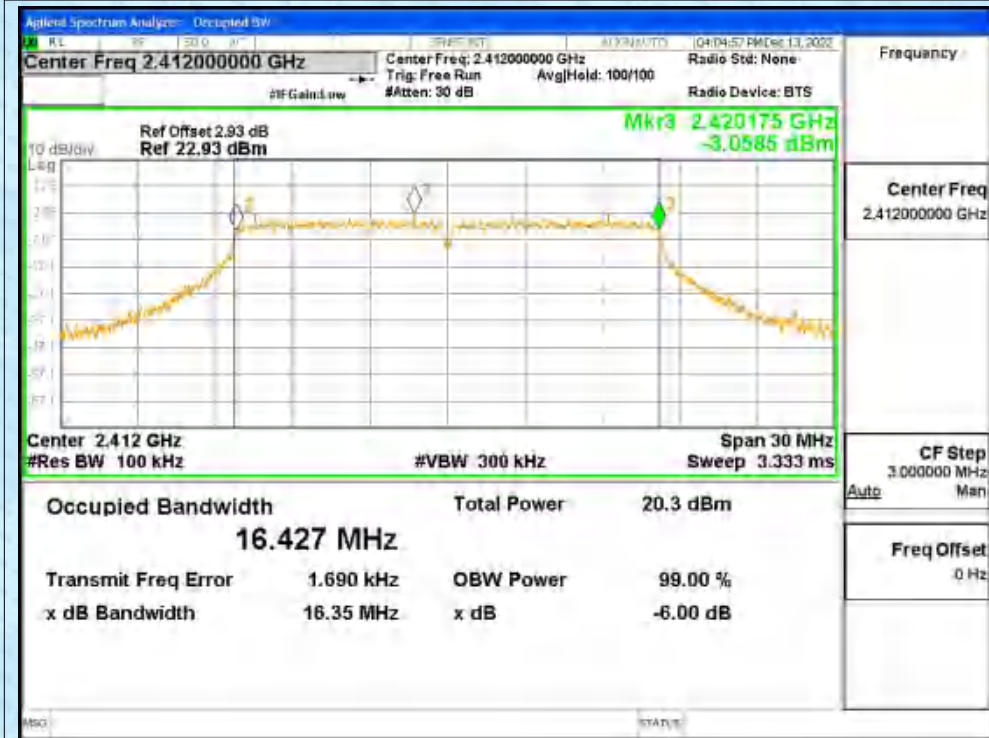


## -6dB Bandwidth

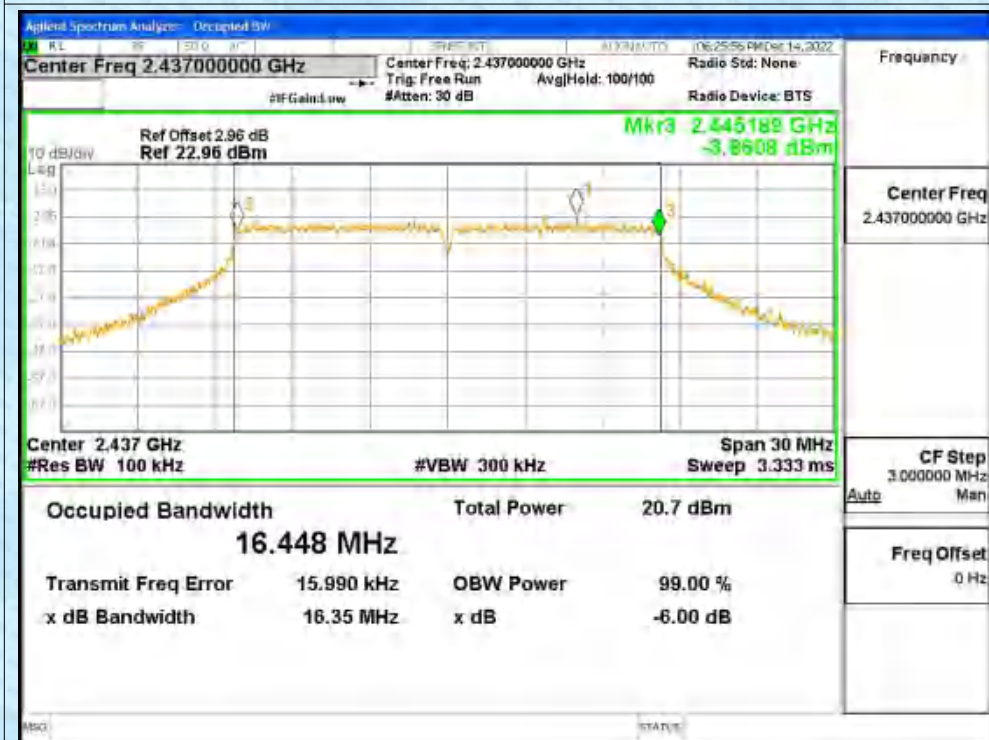
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	g	2412	Ant1	16.347	0.5	Pass
		2437		16.345	0.5	Pass
		2462		16.296	0.5	Pass
	n20	Ant1	2412	16.328	0.5	Pass
			2437	16.337	0.5	Pass
			2462	16.315	0.5	Pass
		Ant2	2412	16.317	0.5	Pass
			2437	16.34	0.5	Pass
			2462	16.325	0.5	Pass

Test Graphs

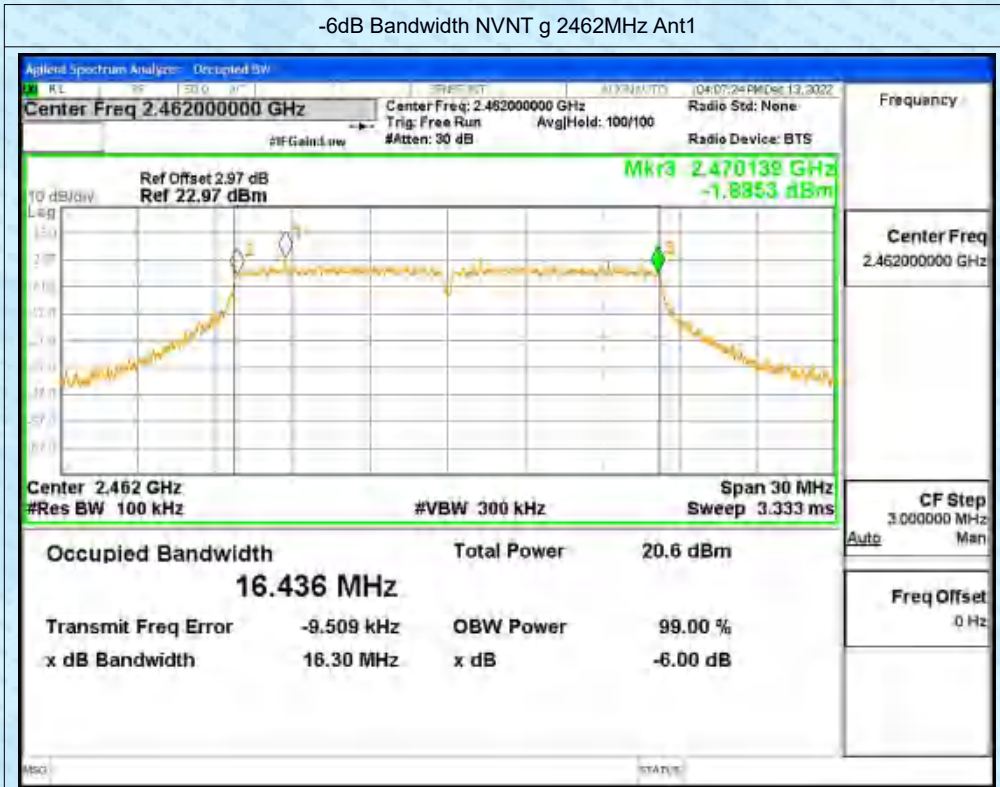
-6dB Bandwidth NVNT g 2412MHz Ant1



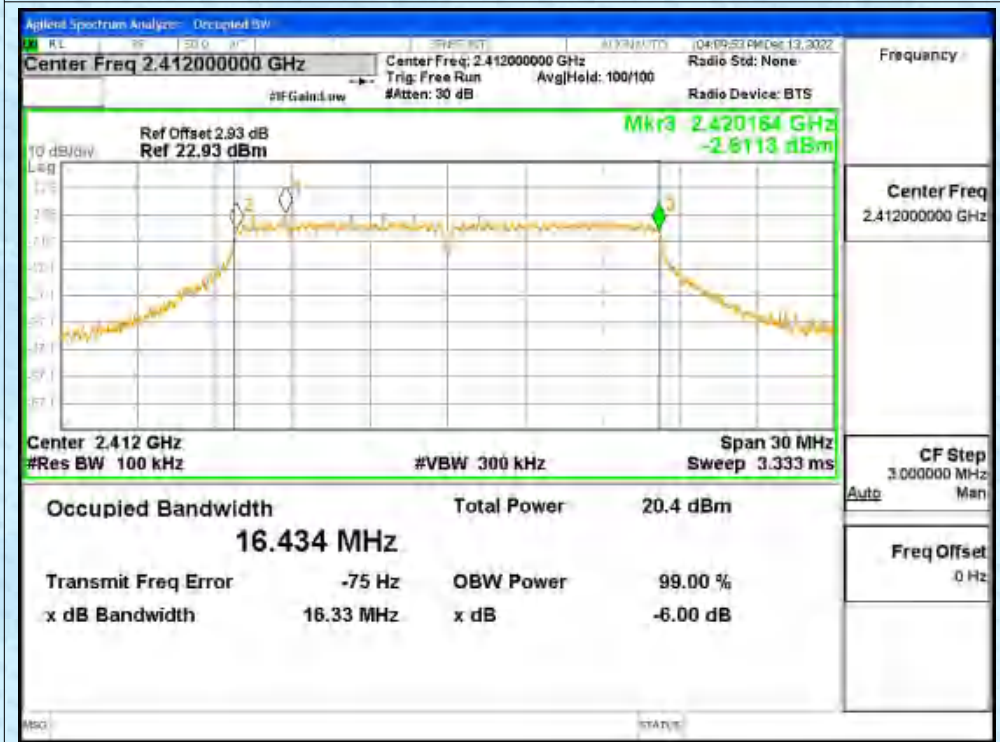
-6dB Bandwidth NVNT g 2437MHz Ant1

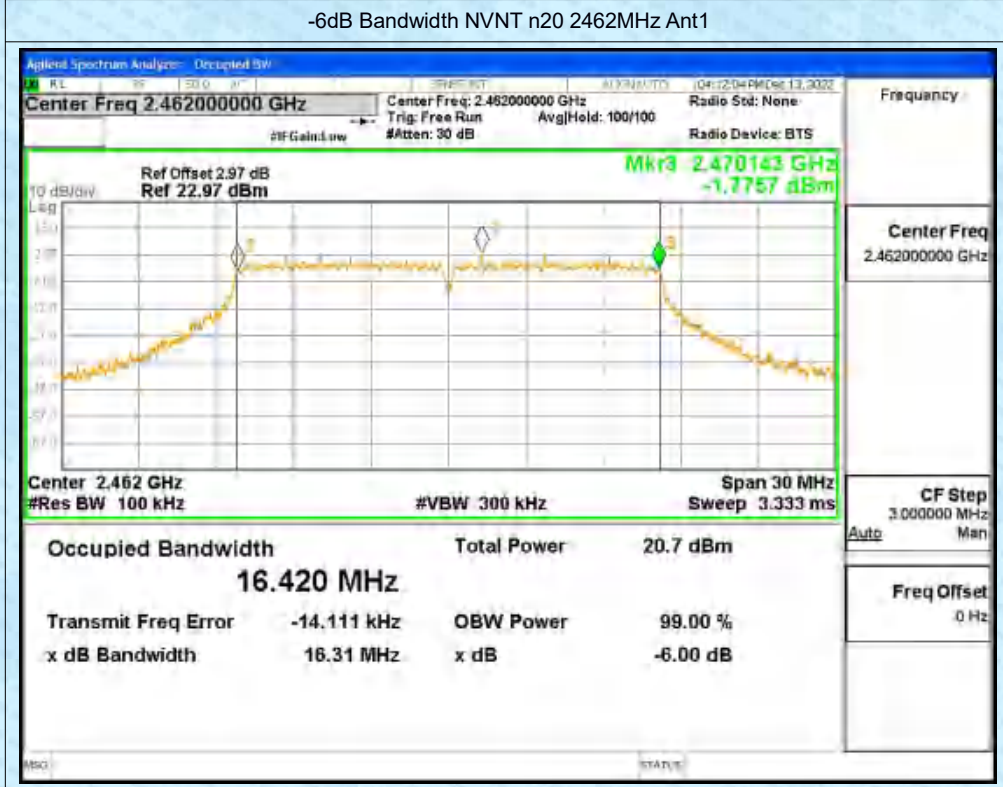
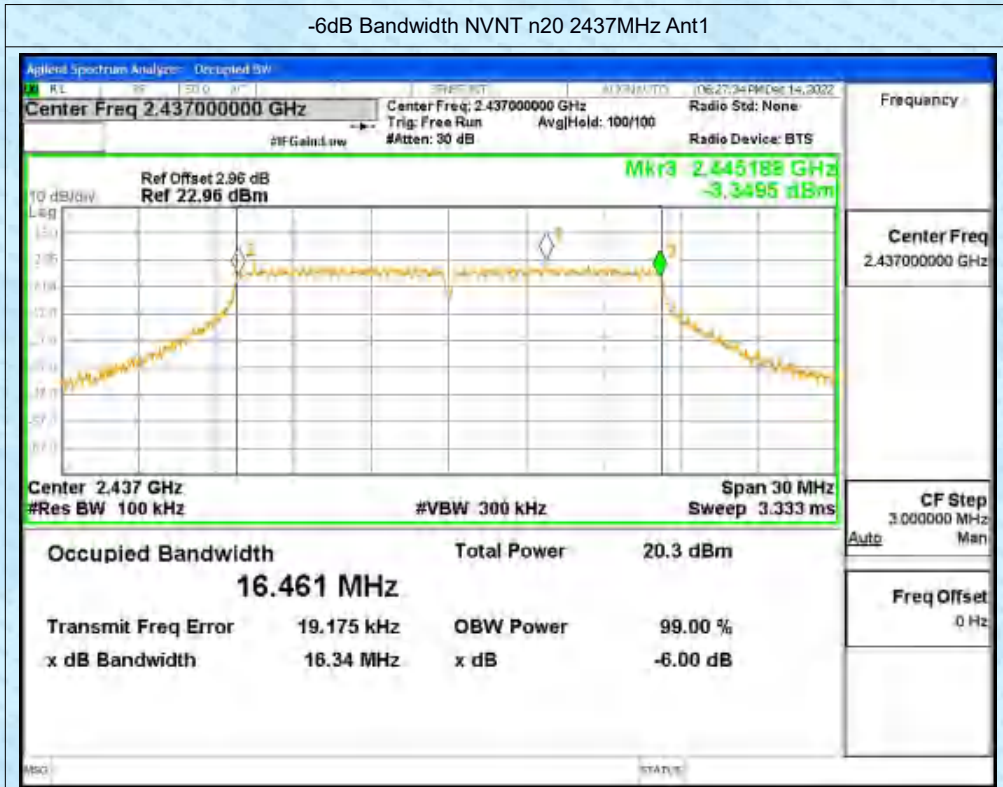


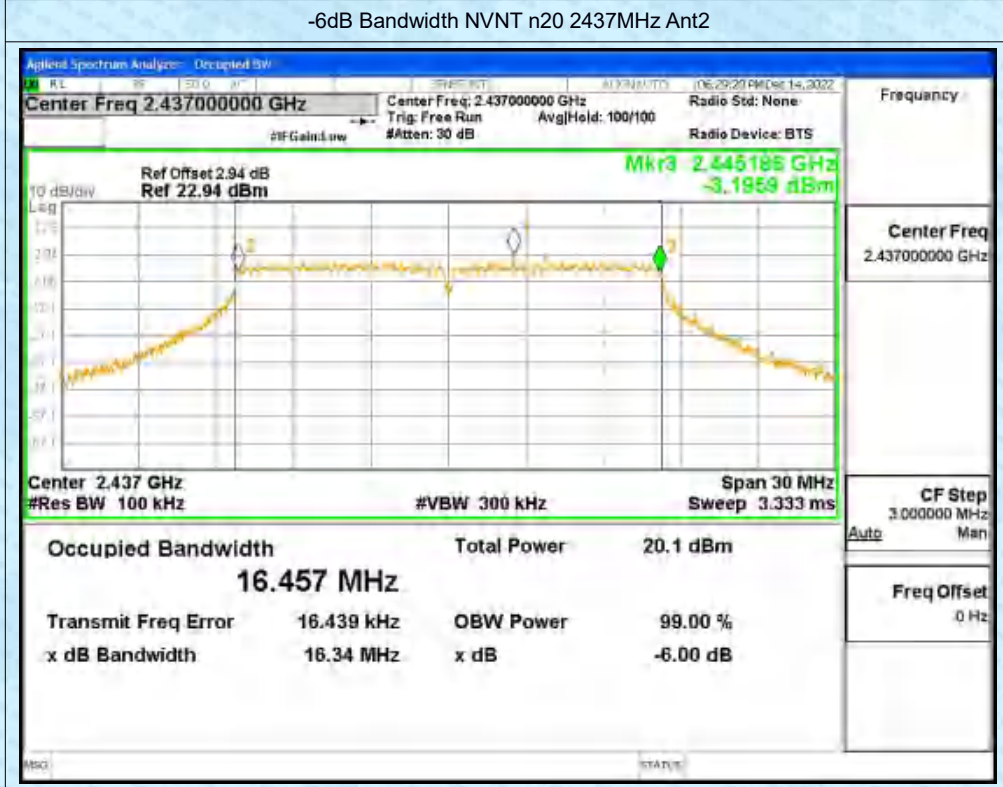
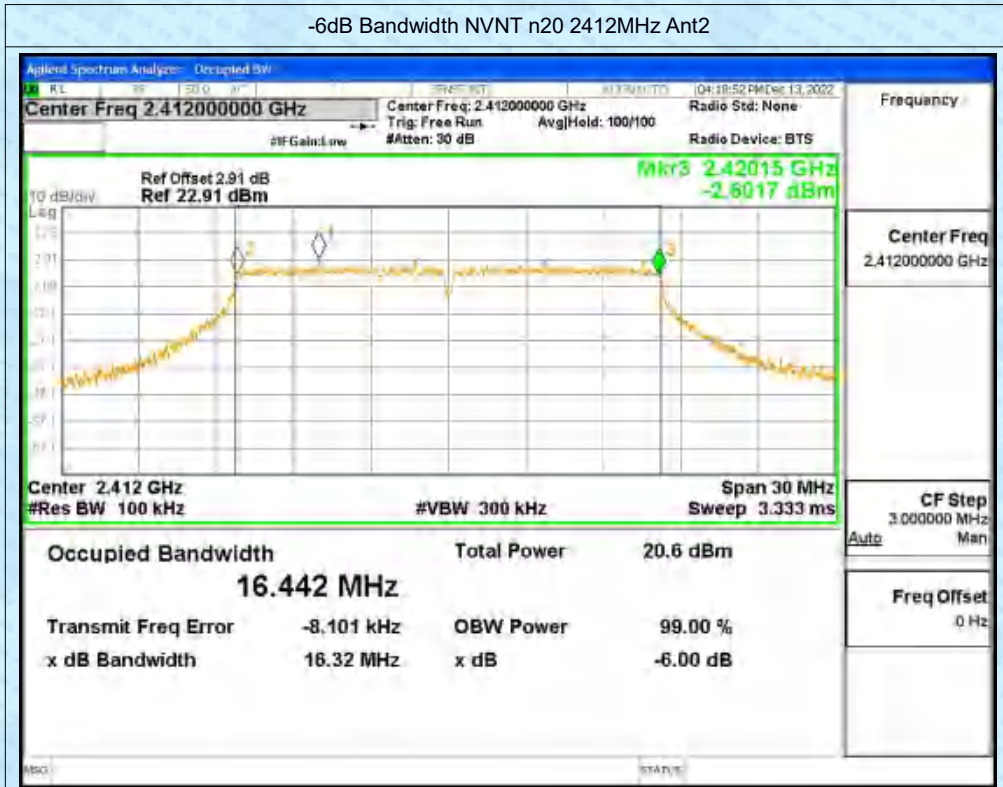
-6dB Bandwidth NVNT g 2462MHz Ant1

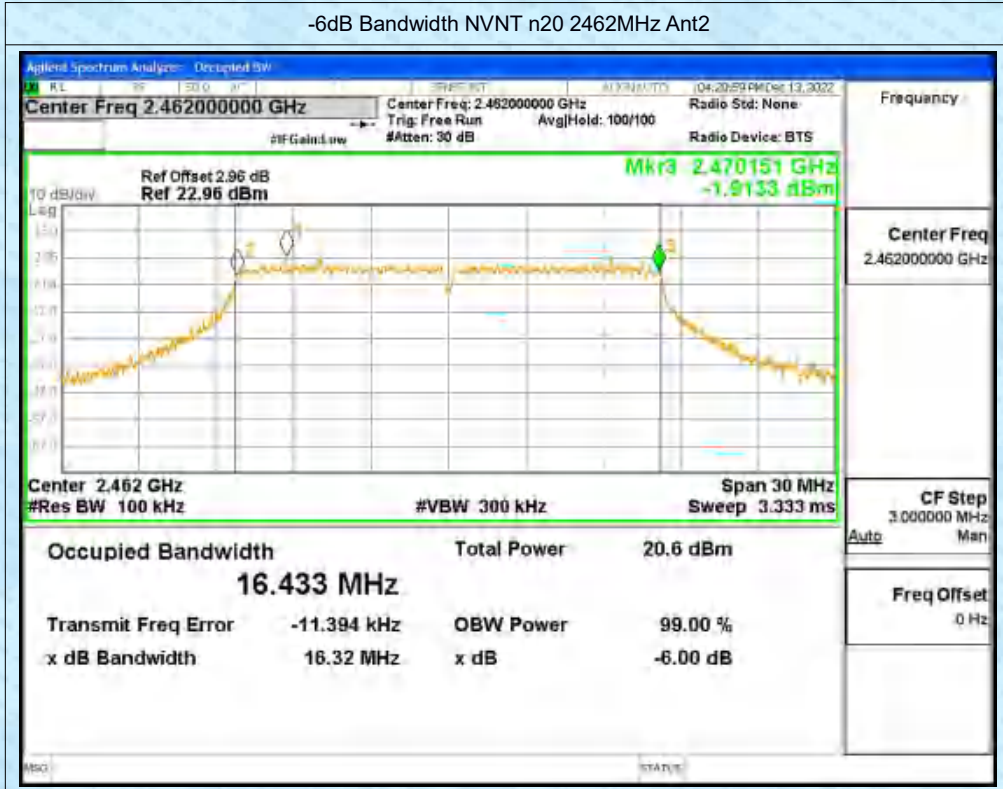


-6dB Bandwidth NVNT n20 2412MHz Ant1







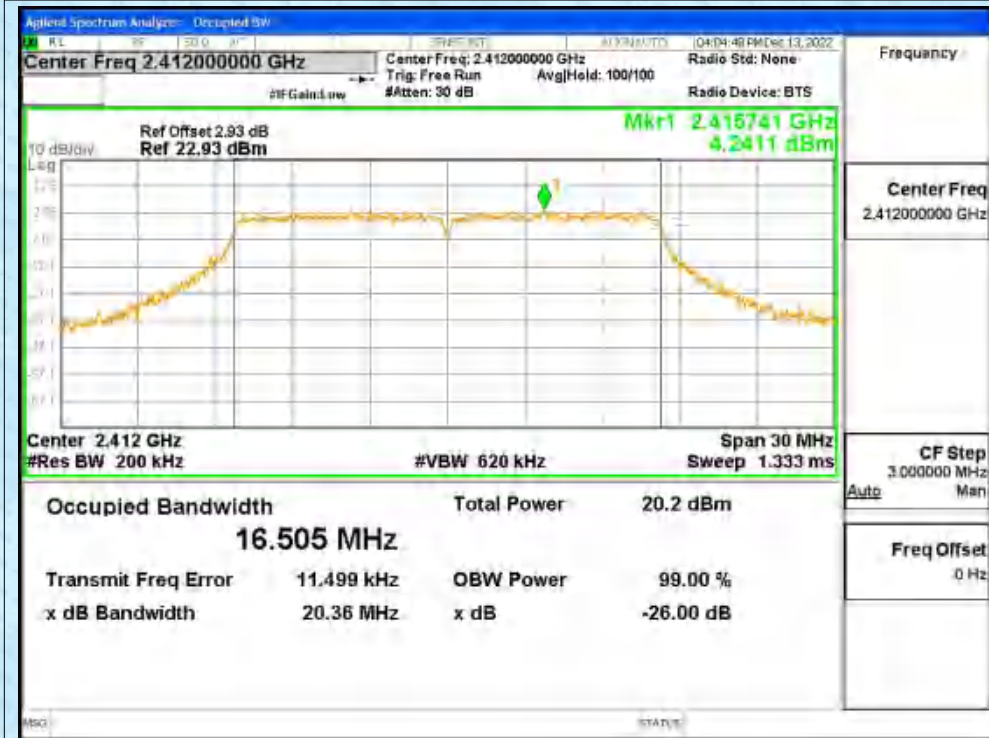


## Occupied Channel Bandwidth

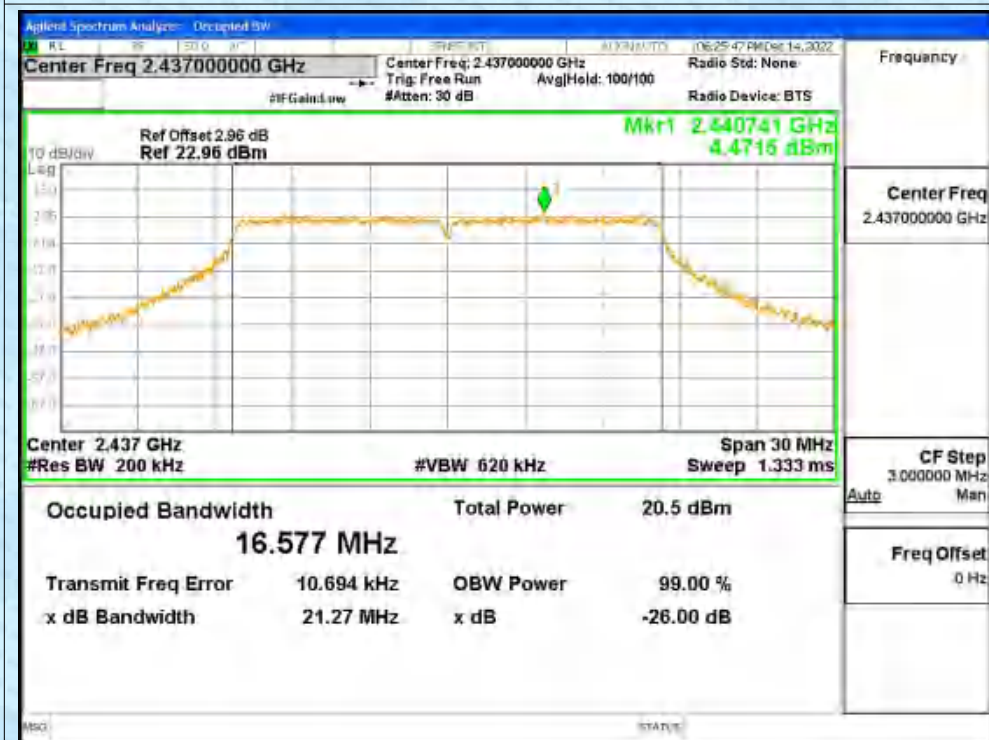
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	g	2412	Ant1	16.505
		2437		16.577
		2462		16.478
	n20	2412		16.529
		2437		16.551
		2462		16.492
		Ant2	2412	16.532
			2437	16.587
			2462	16.508

Test Graphs

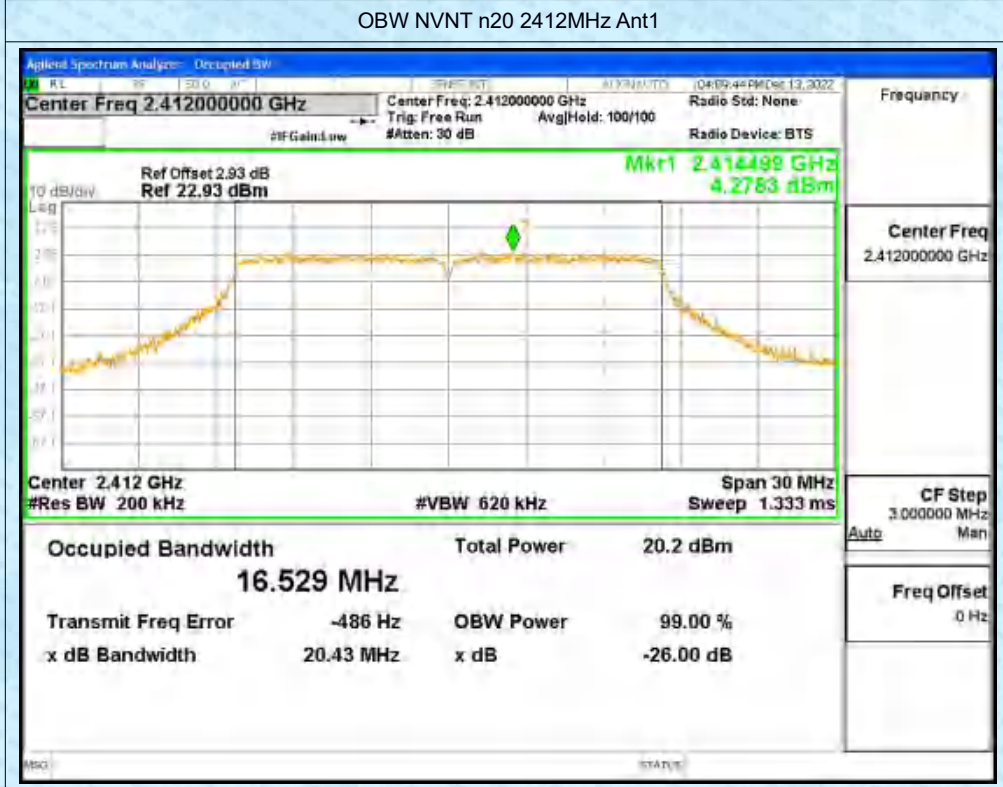
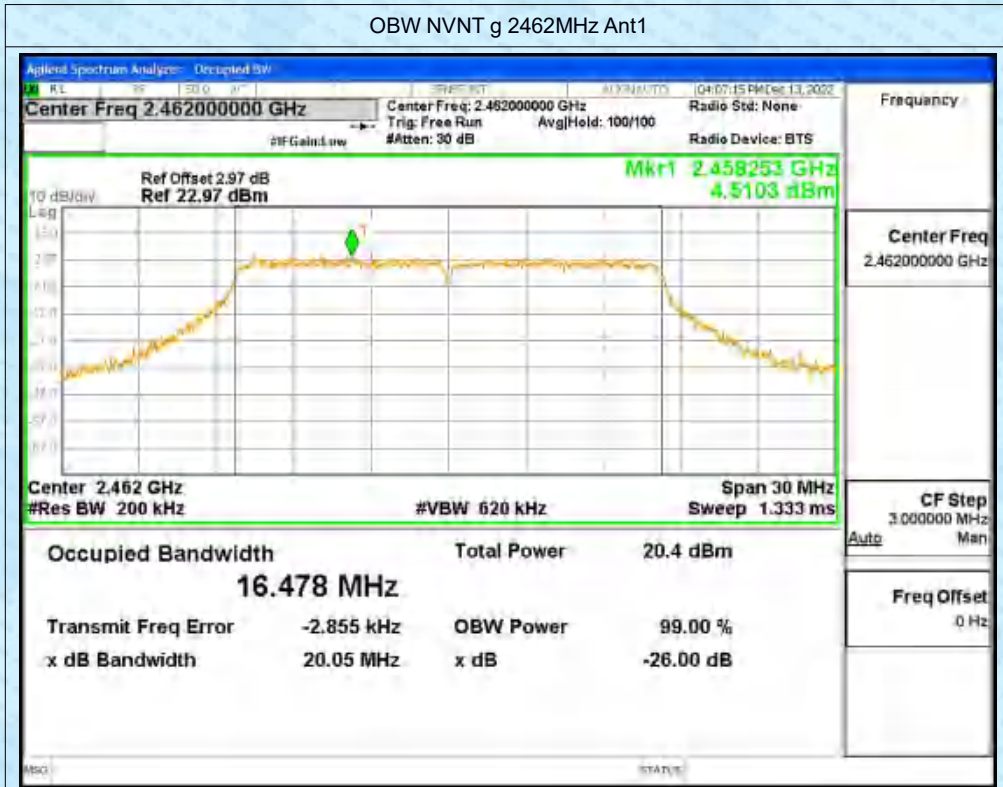
OBW NVNT g 2412MHz Ant1

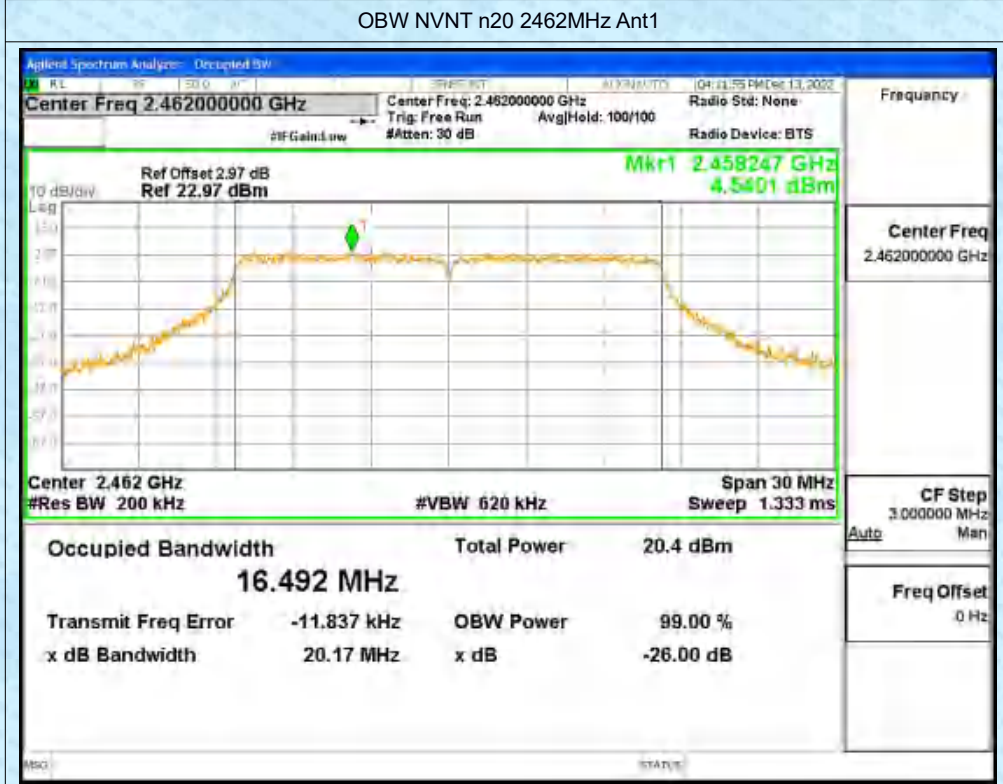
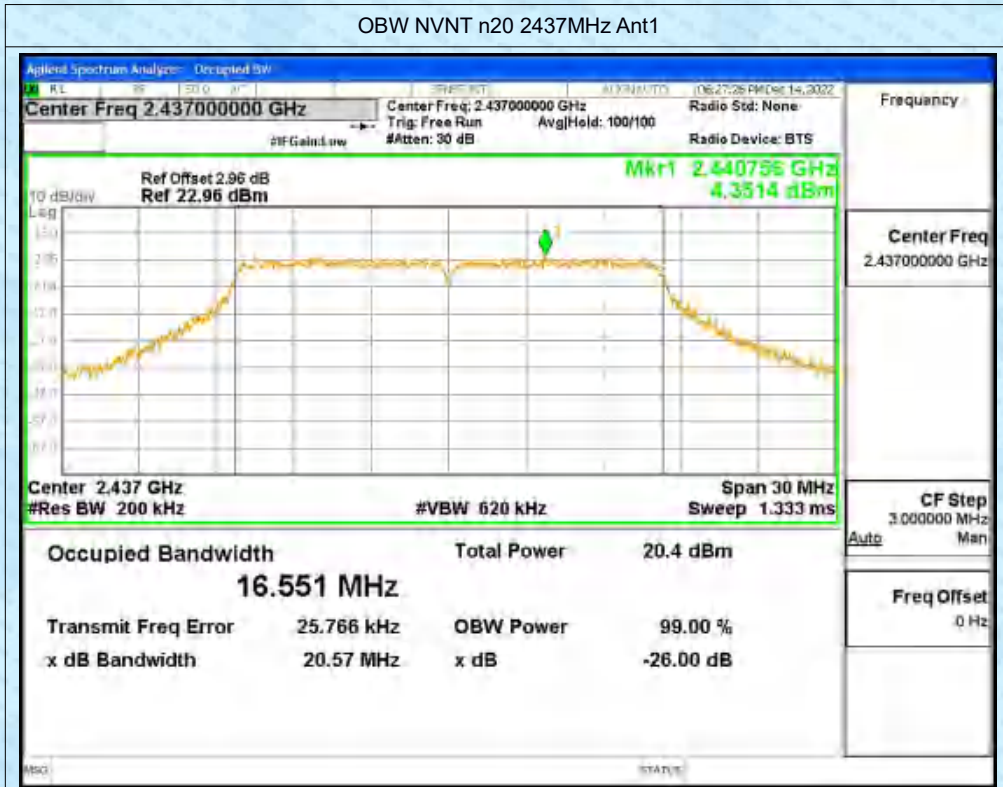


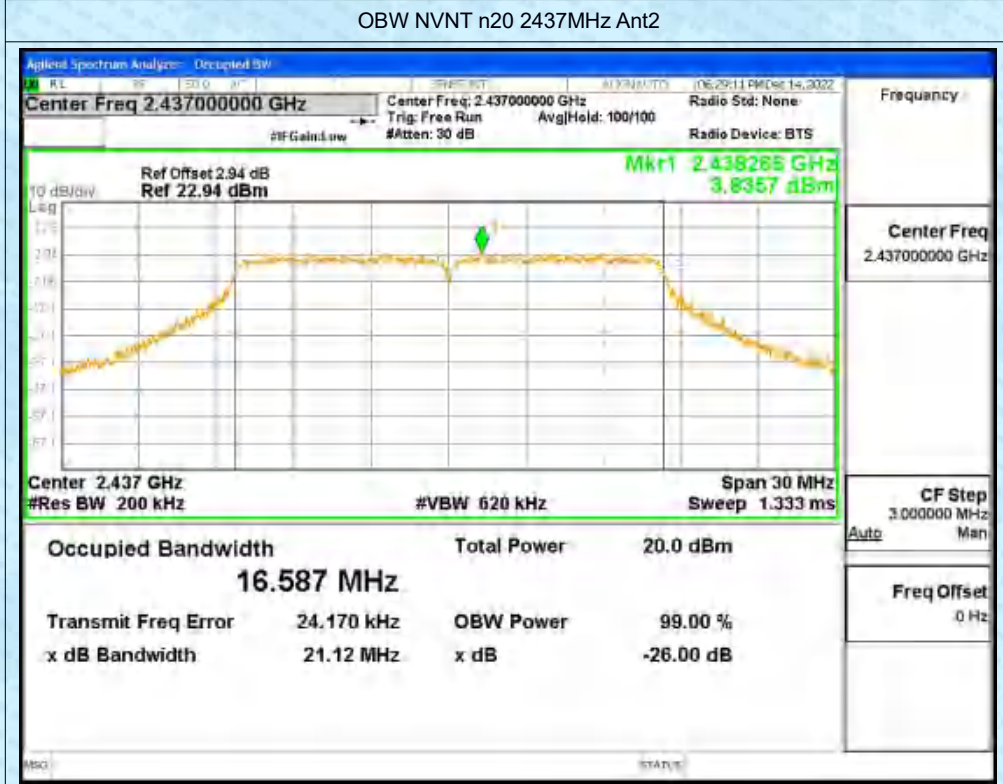
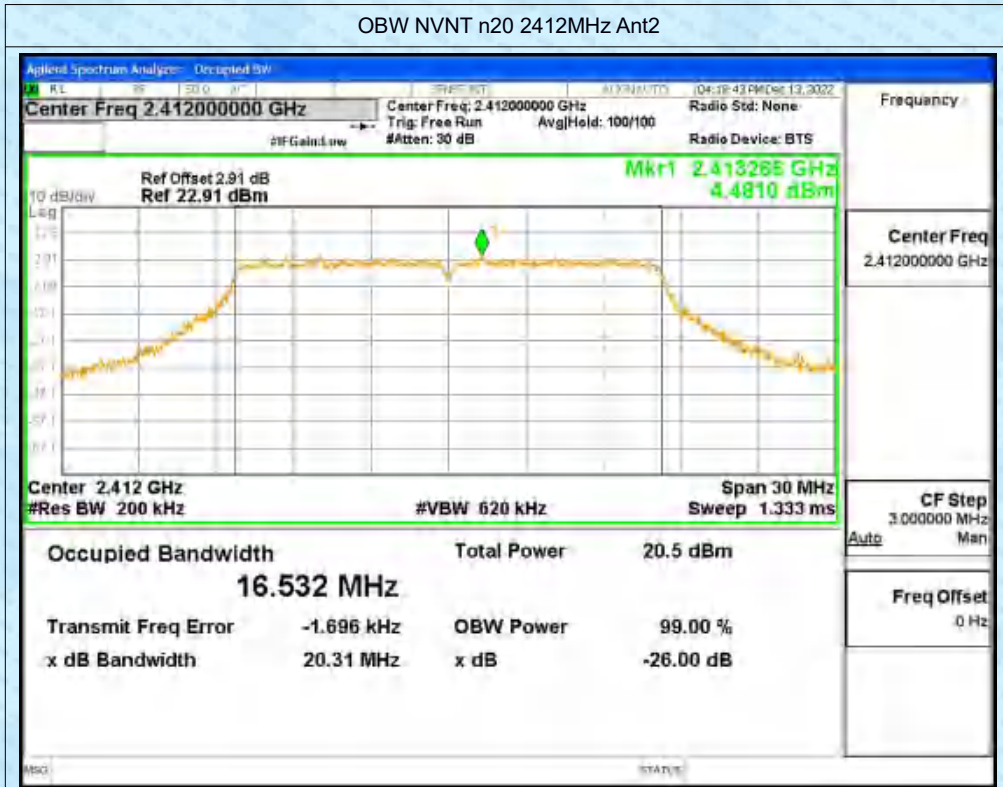
OBW NVNT g 2437MHz Ant1

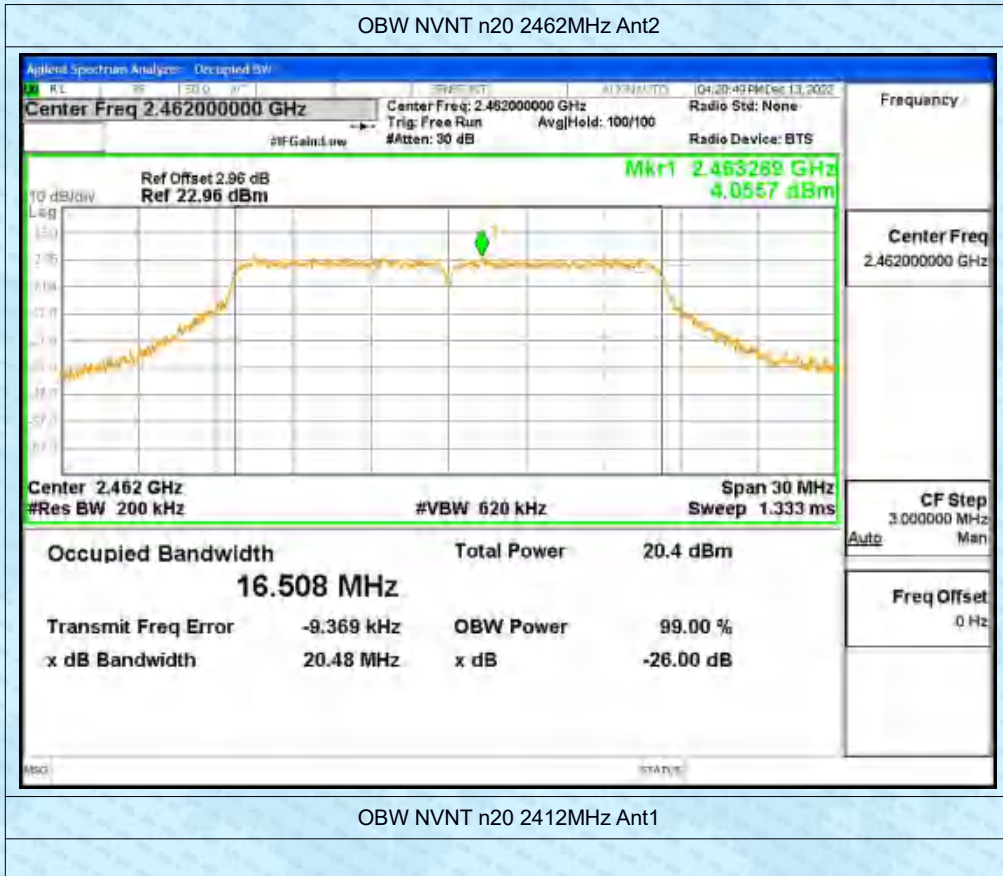










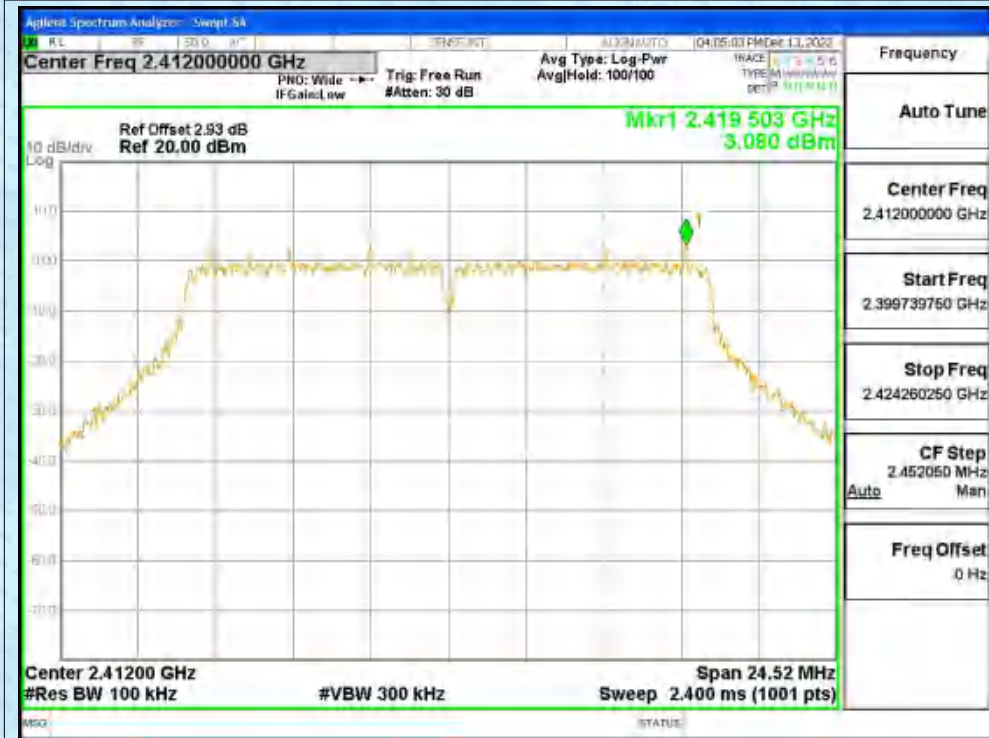


## Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	g	2412	Ant1	3.08	0	3.08	8	Pass
		2437		3.55	0	3.55	8	Pass
		2462		3.46	0	3.46	8	Pass
	n20	2412	Ant1	-4.05	0	-4.05	8	Pass
			Ant2	-3.71	0	-3.71	8	Pass
			Sum	-0.87	0	-0.87	8	Pass
		2437	Ant1	-0.37	0	-0.37	8	Pass
			Ant2	-1.77	0	-1.77	8	Pass
			Sum	2	0	2	8	Pass
		2462	Ant1	-5.27	0	-5.27	8	Pass
			Ant2	-4.48	0	-4.48	8	Pass
			Sum	-1.85	0	-1.85	8	Pass

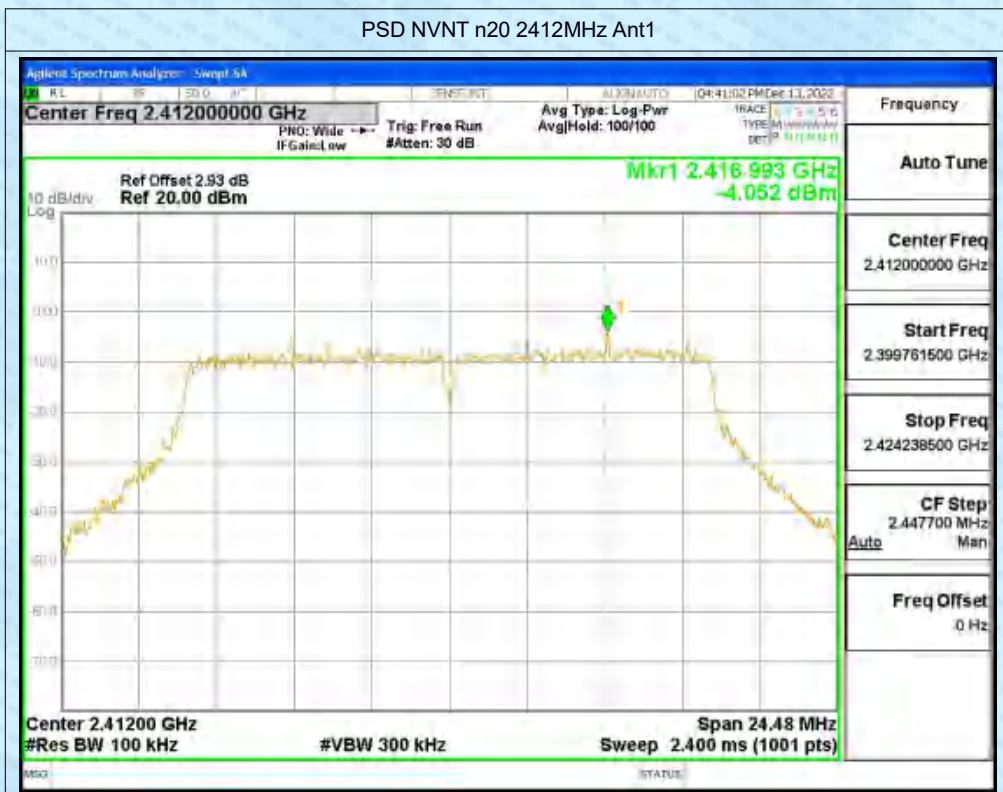
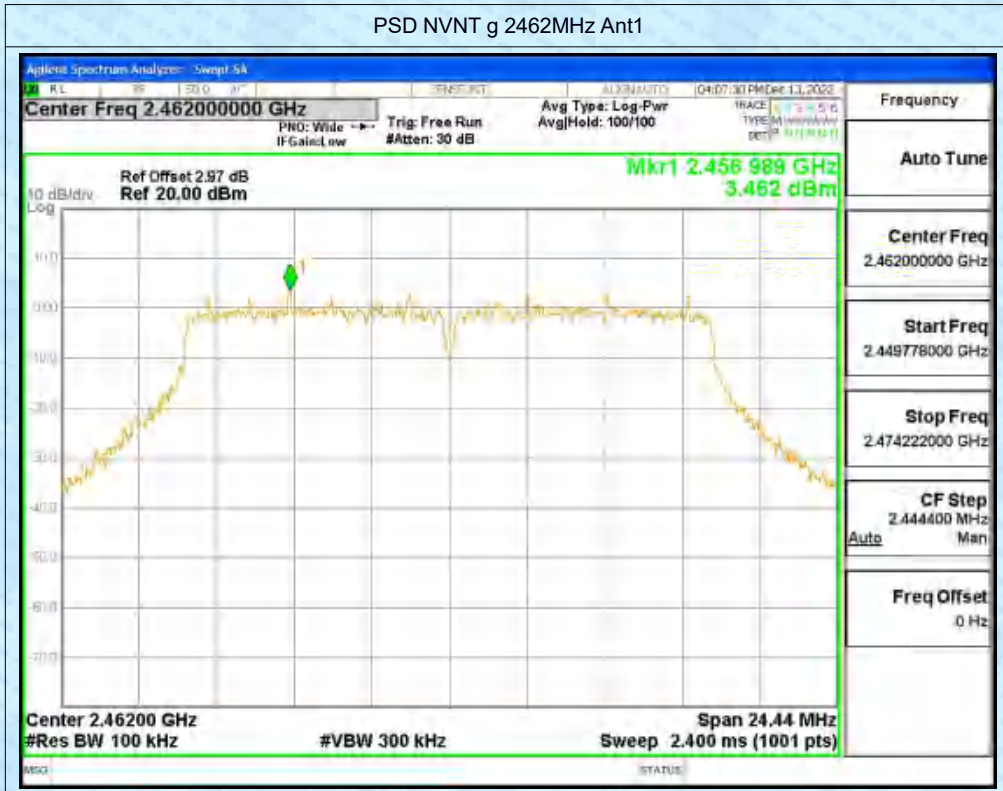
### Test Graphs

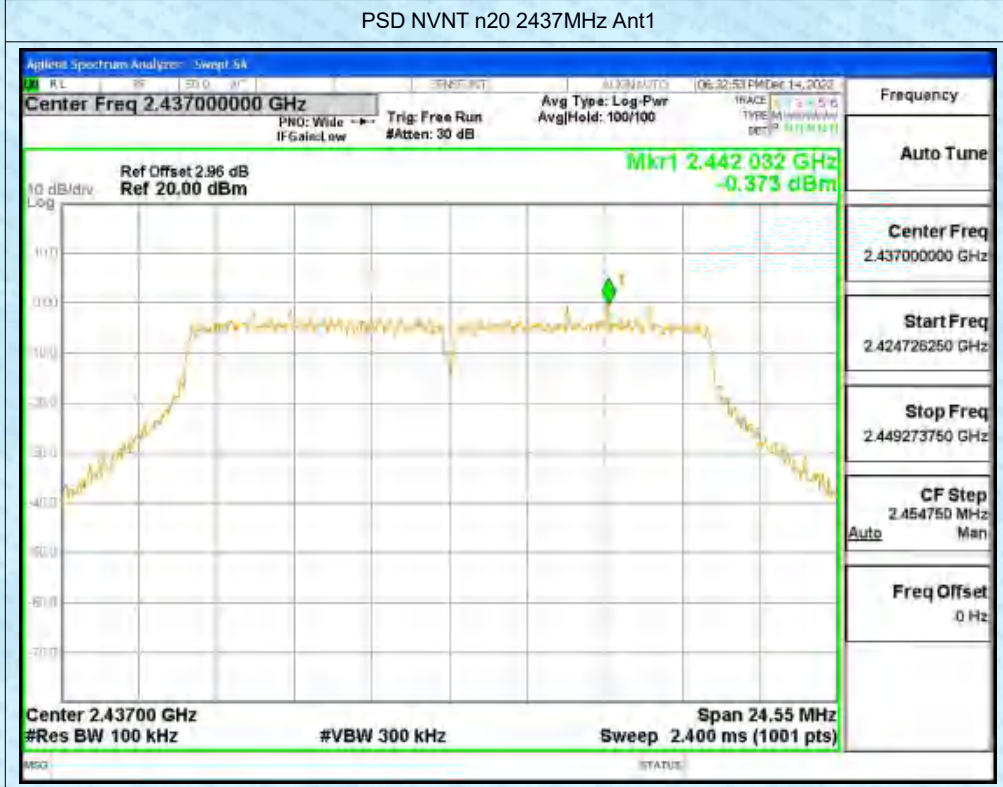
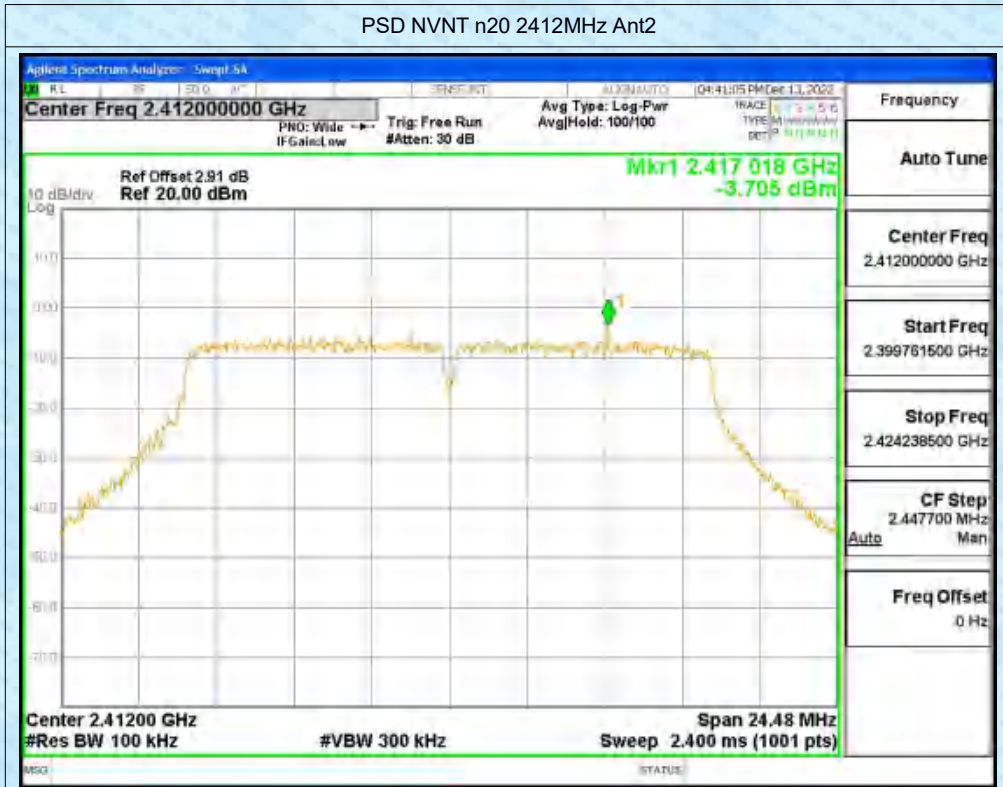
PSD NVNT g 2412MHz Ant1



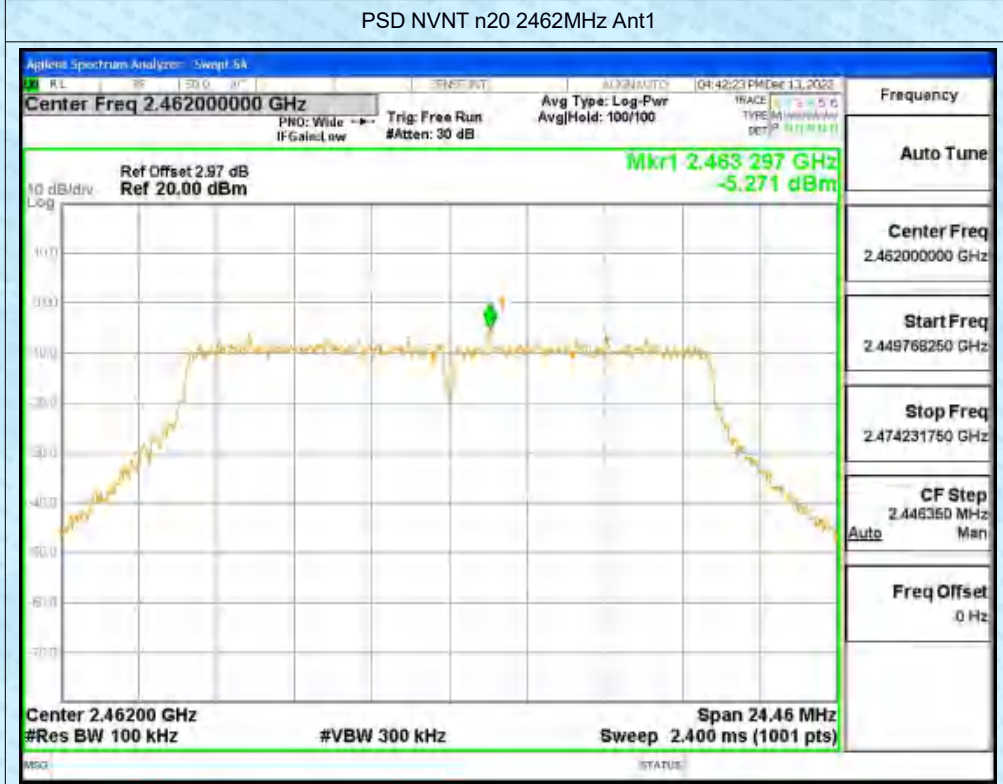
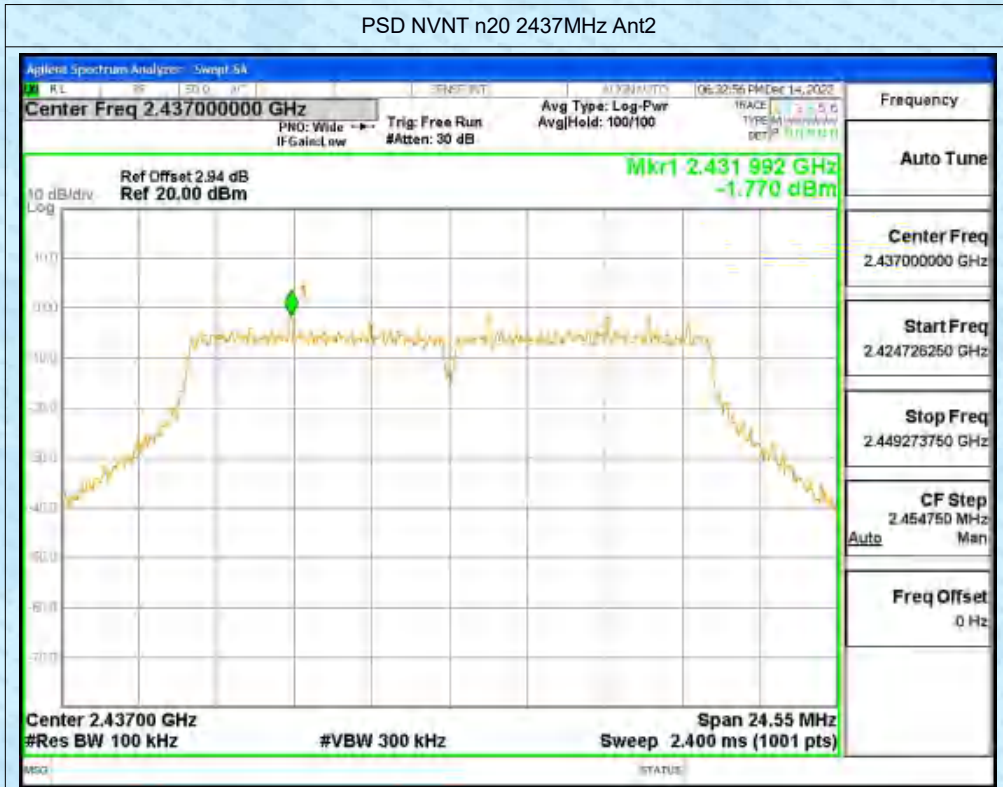
PSD NVNT g 2437MHz Ant1

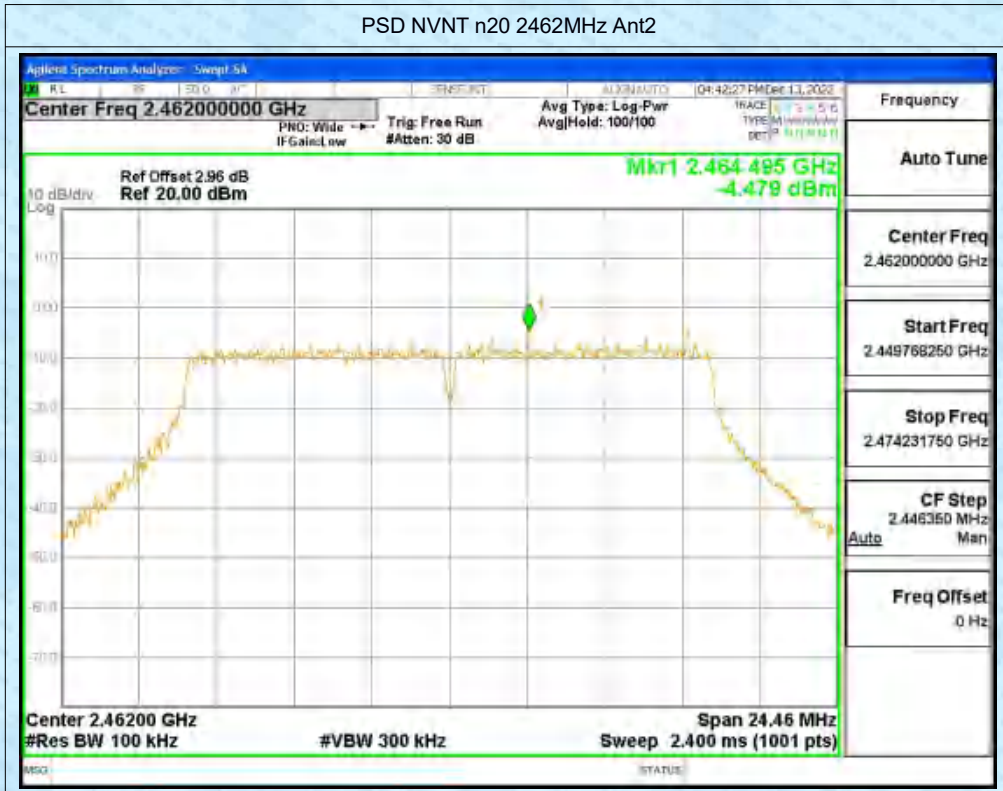










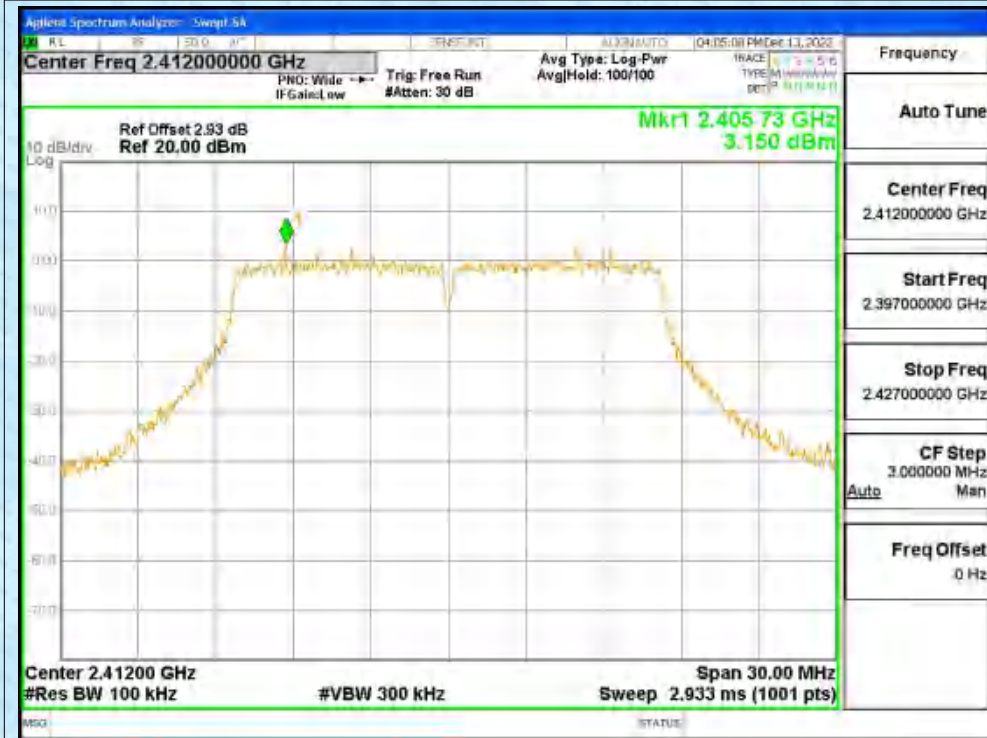


## Band Edge

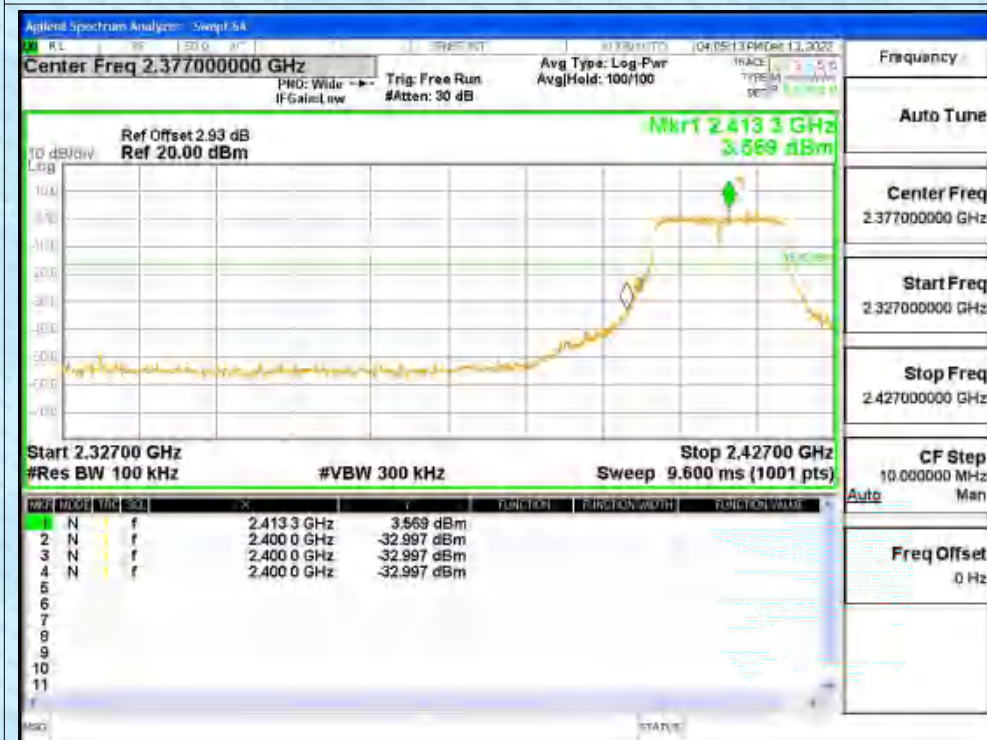
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	g	2412	Ant1	-36.14	-20	Pass
		2462		-52.56	-20	Pass
	n20	2412	Ant1	-37.56	-20	Pass
				-52.18	-20	Pass
		2462	Ant2	-36.52	-20	Pass
				-51.23	-20	Pass

### Test Graphs

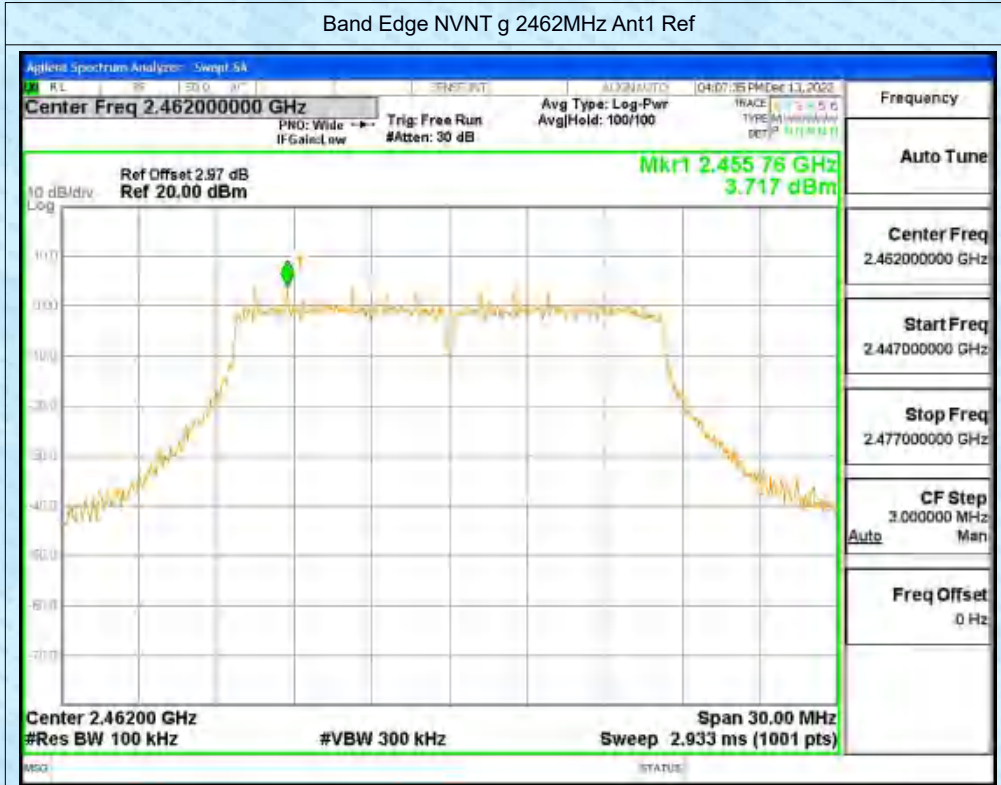
Band Edge NVNT g 2412MHz Ant1 Ref



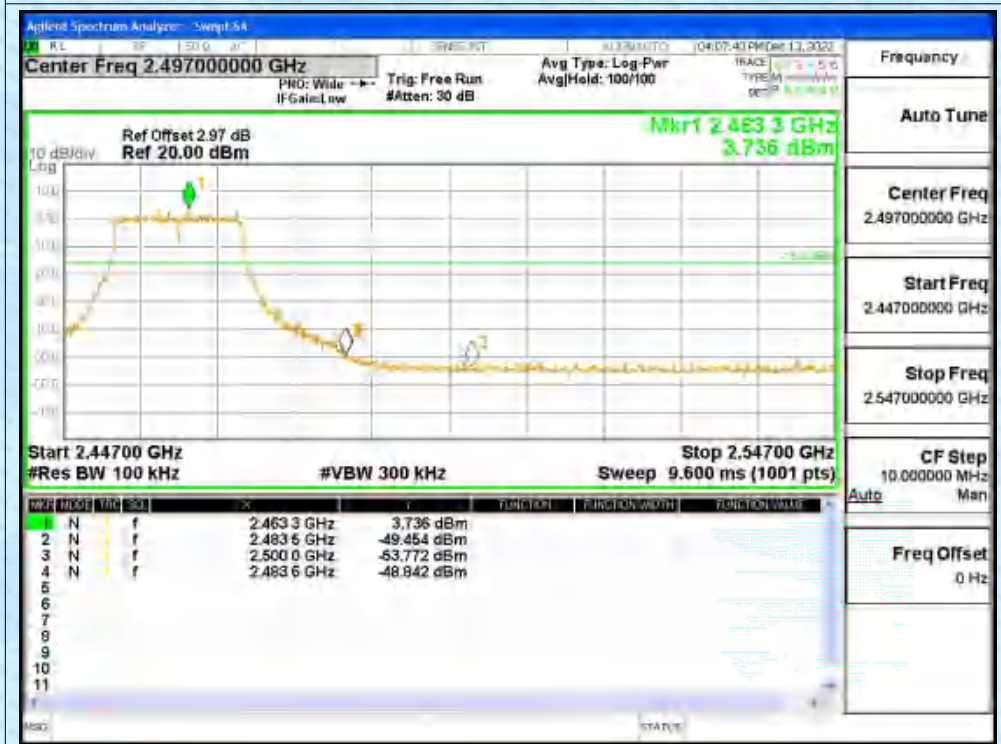
Band Edge NVNT g 2412MHz Ant1 Emission



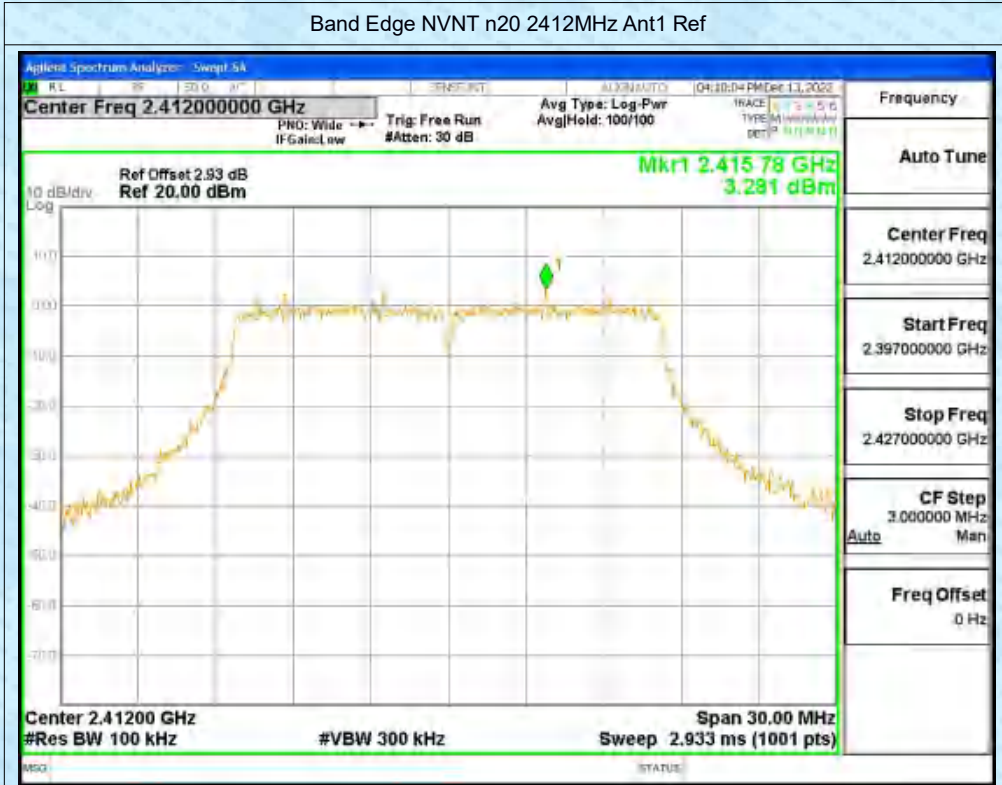
Band Edge NVNT g 2462MHz Ant1 Ref



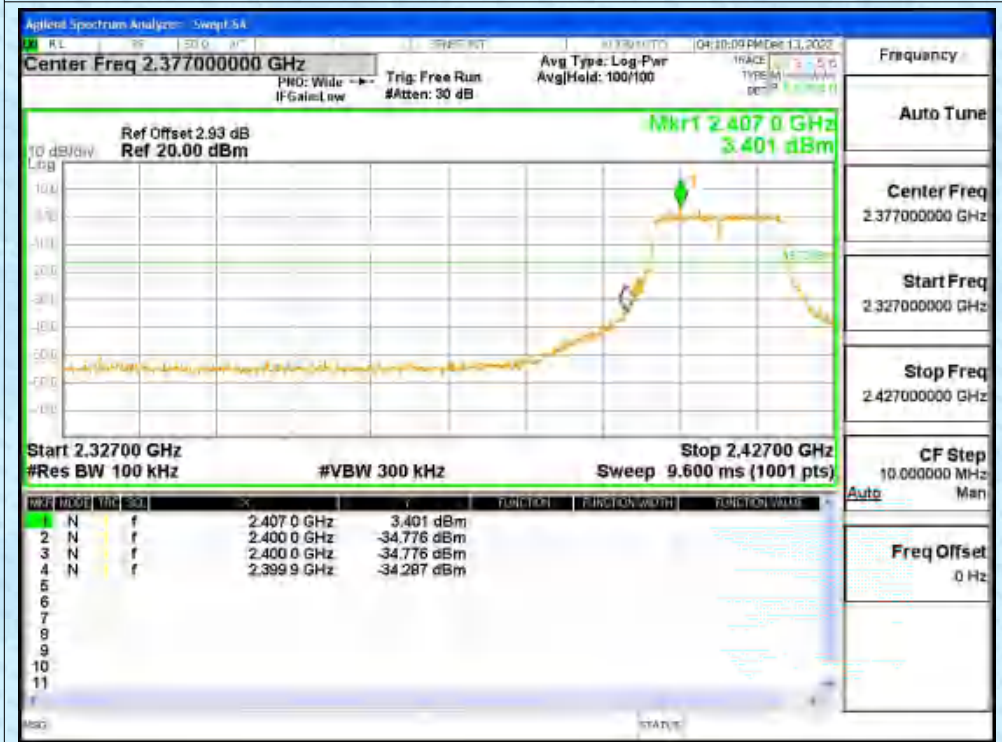
Band Edge NVNT g 2462MHz Ant1 Emission



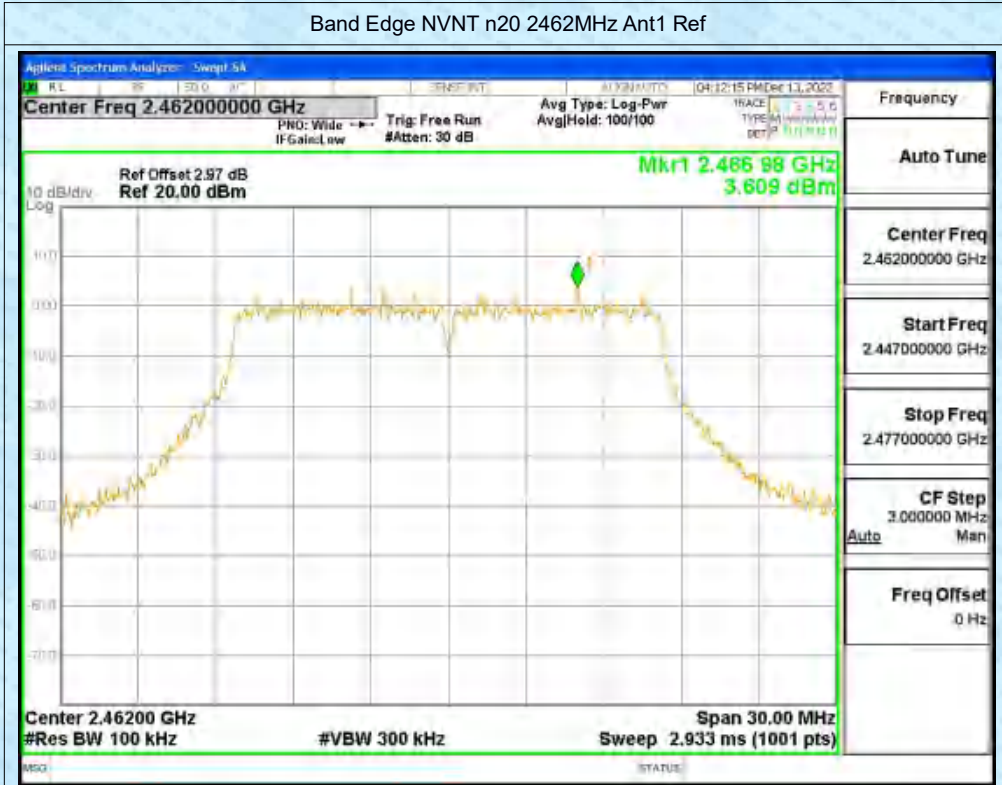
Band Edge NVNT n20 2412MHz Ant1 Ref



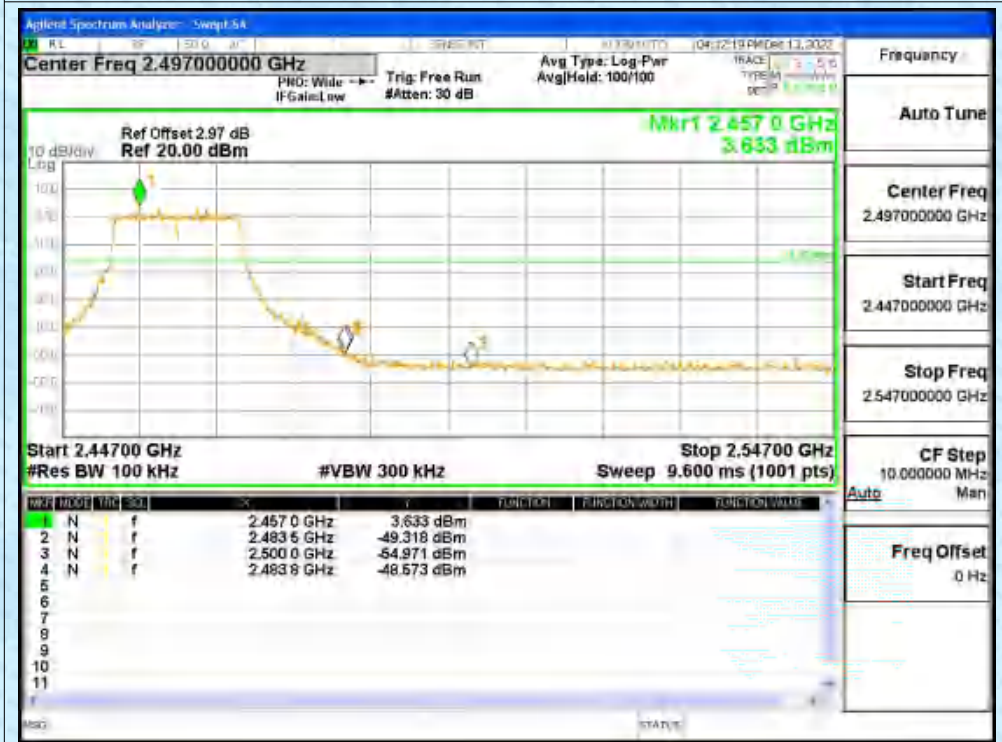
Band Edge NVNT n20 2412MHz Ant1 Emission



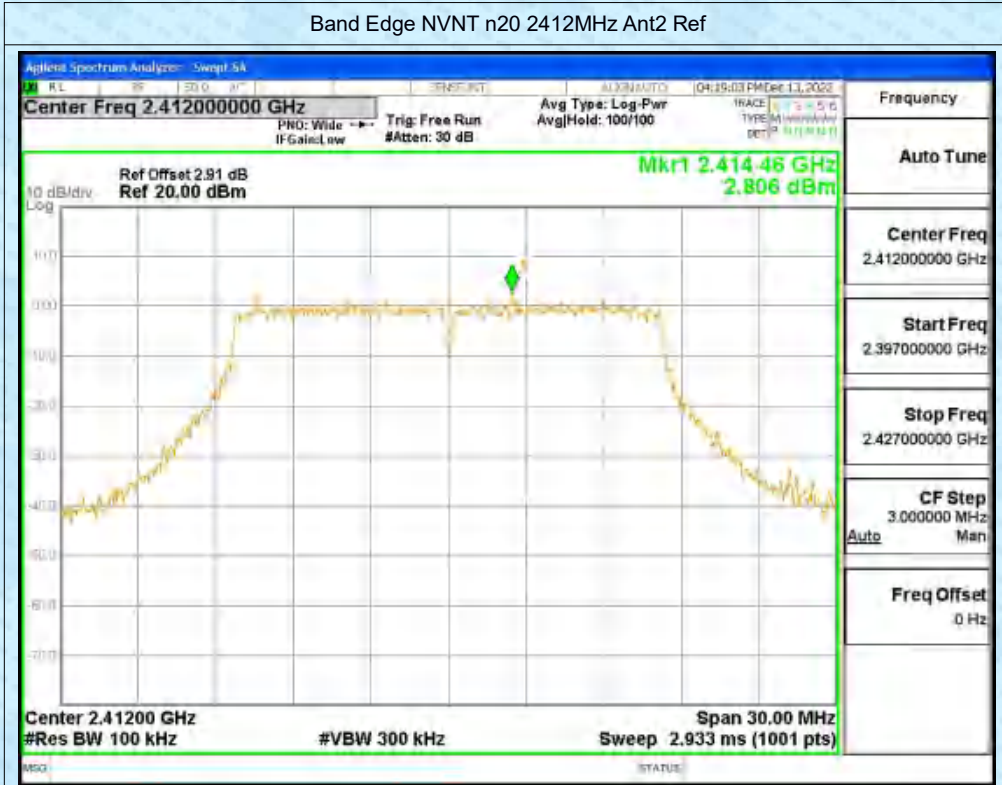
Band Edge NVNT n20 2462MHz Ant1 Ref



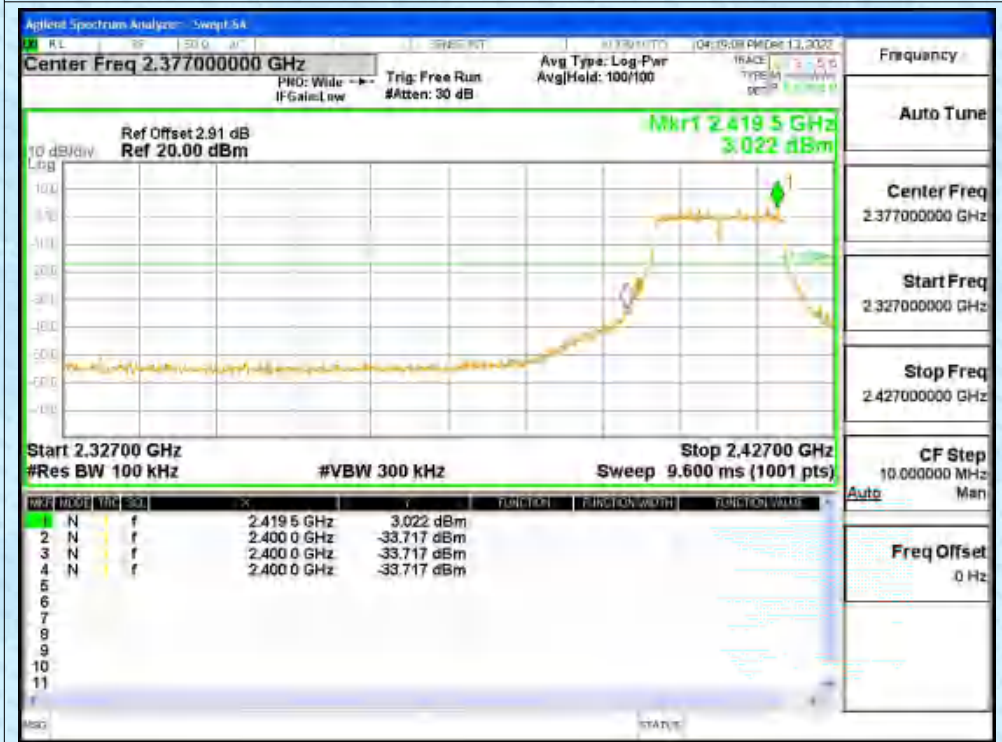
Band Edge NVNT n20 2462MHz Ant1 Emission



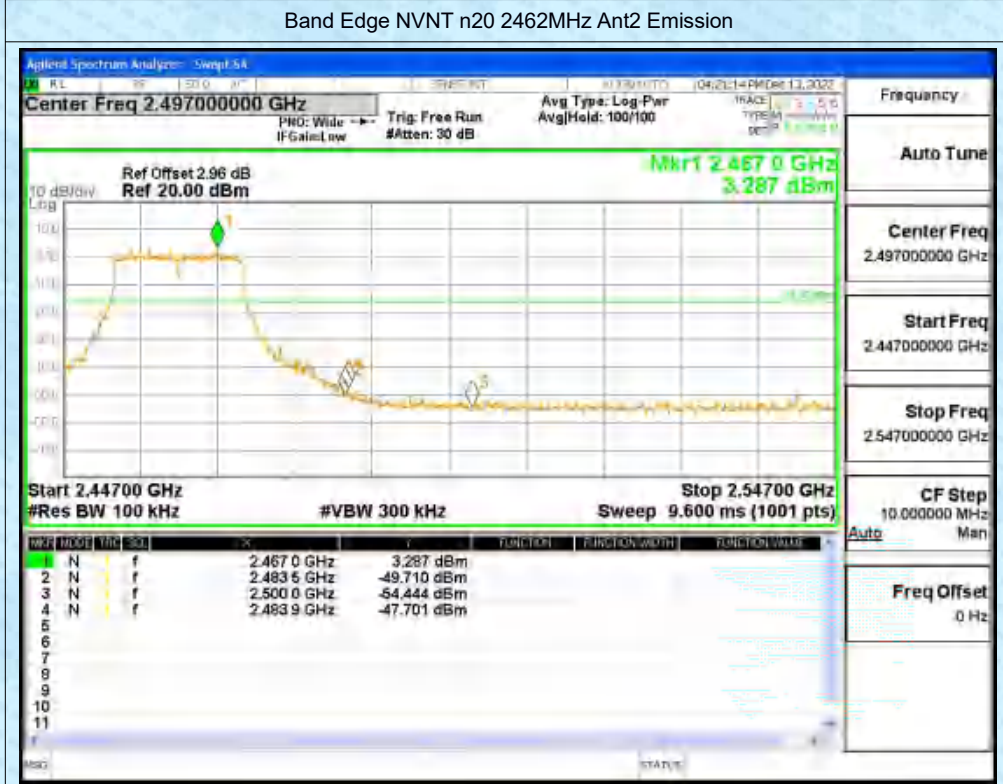
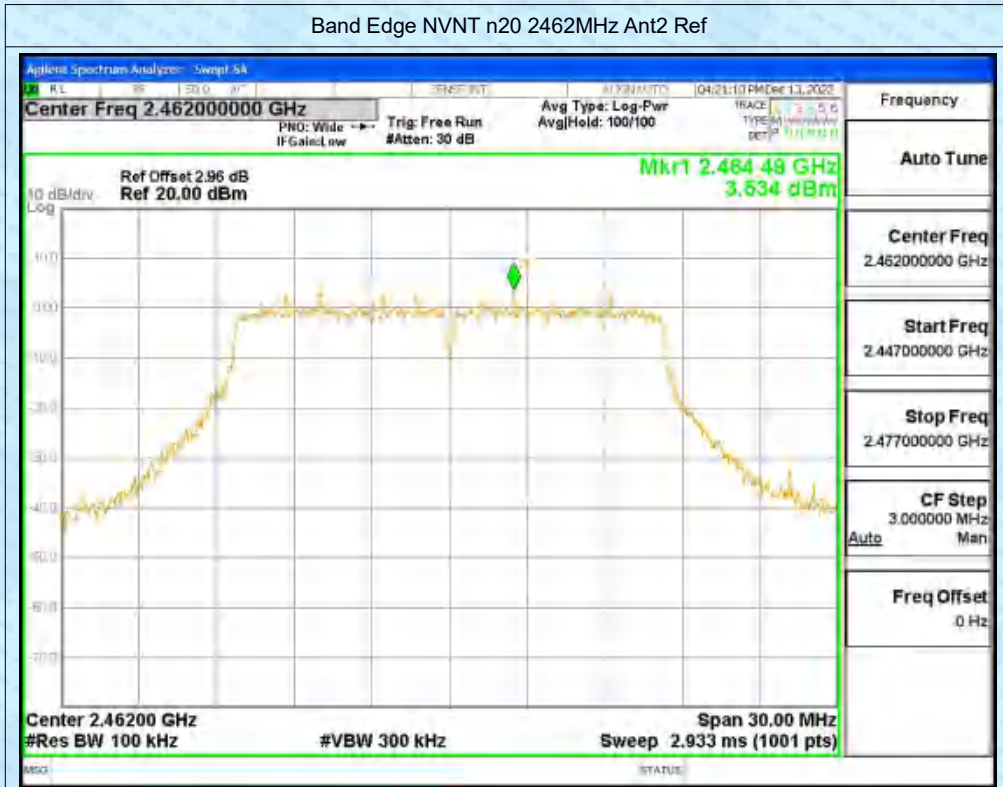
Band Edge NVNT n20 2412MHz Ant2 Ref



Band Edge NVNT n20 2412MHz Ant2 Emission





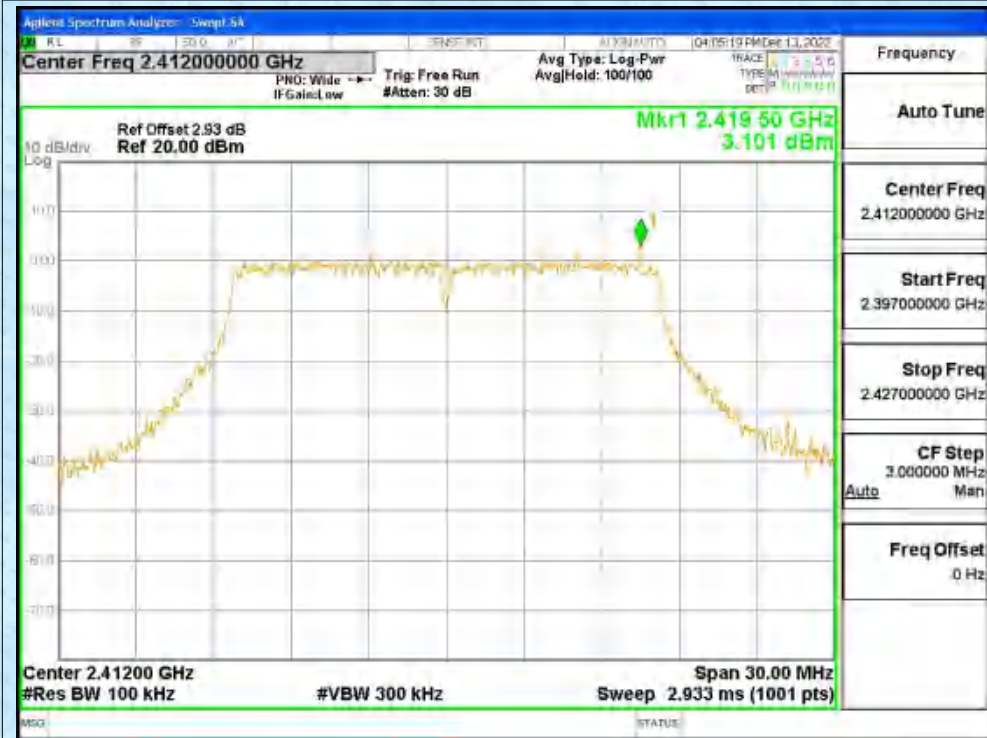


## Conducted RF Spurious Emission

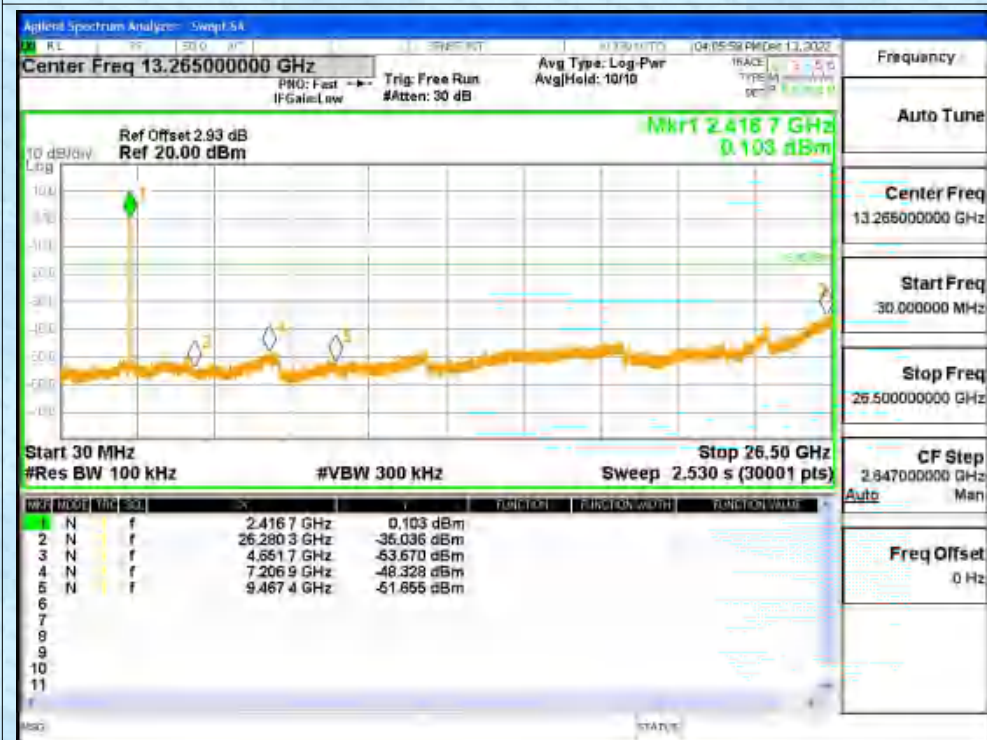
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	g	2412	Ant1	-38.13	-20	Pass
		2437		-37.81	-20	Pass
		2462		-37.31	-20	Pass
	n20	Ant1	2412	-37.56	-20	Pass
			2437	-38.31	-20	Pass
			2462	-37.92	-20	Pass
		Ant2	2412	-37.73	-20	Pass
			2437	-38.3	-20	Pass
			2462	-38.03	-20	Pass

### Test Graphs

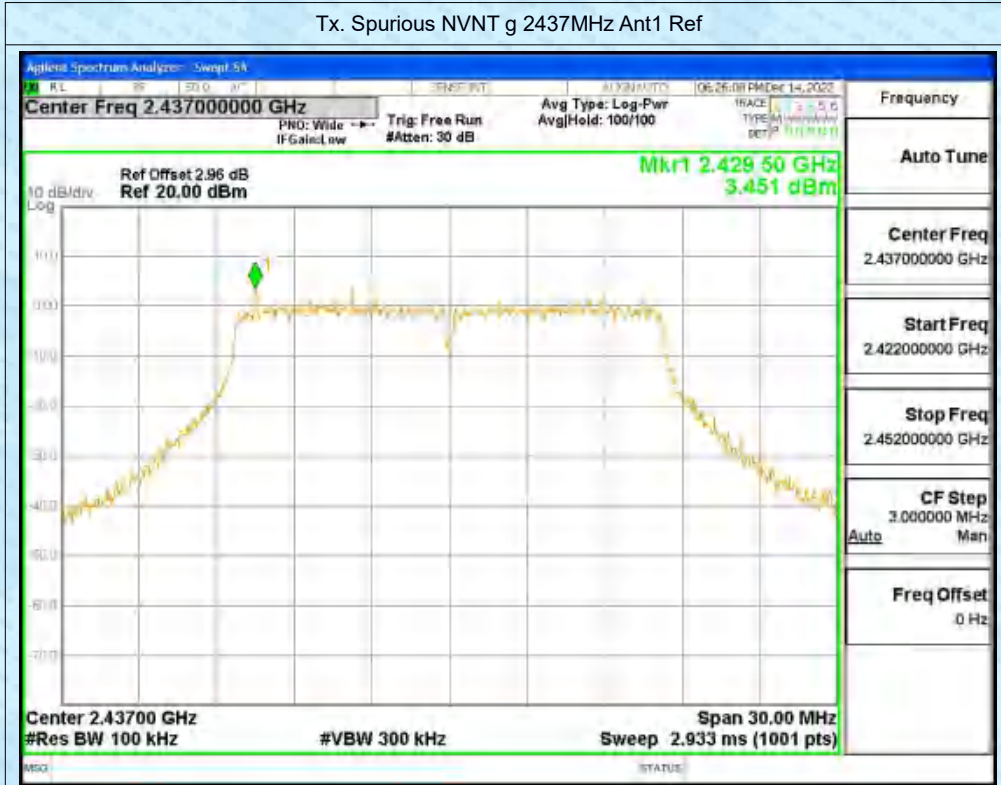
Tx. Spurious NVNT g 2412MHz Ant1 Ref



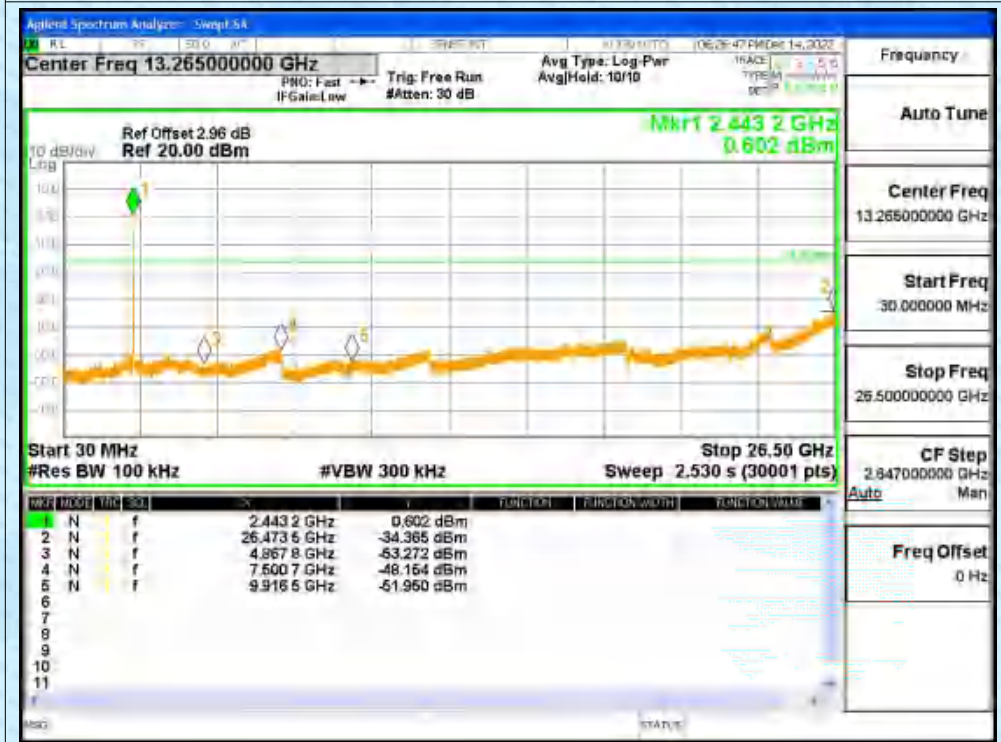
Tx. Spurious NVNT g 2412MHz Ant1 Emission



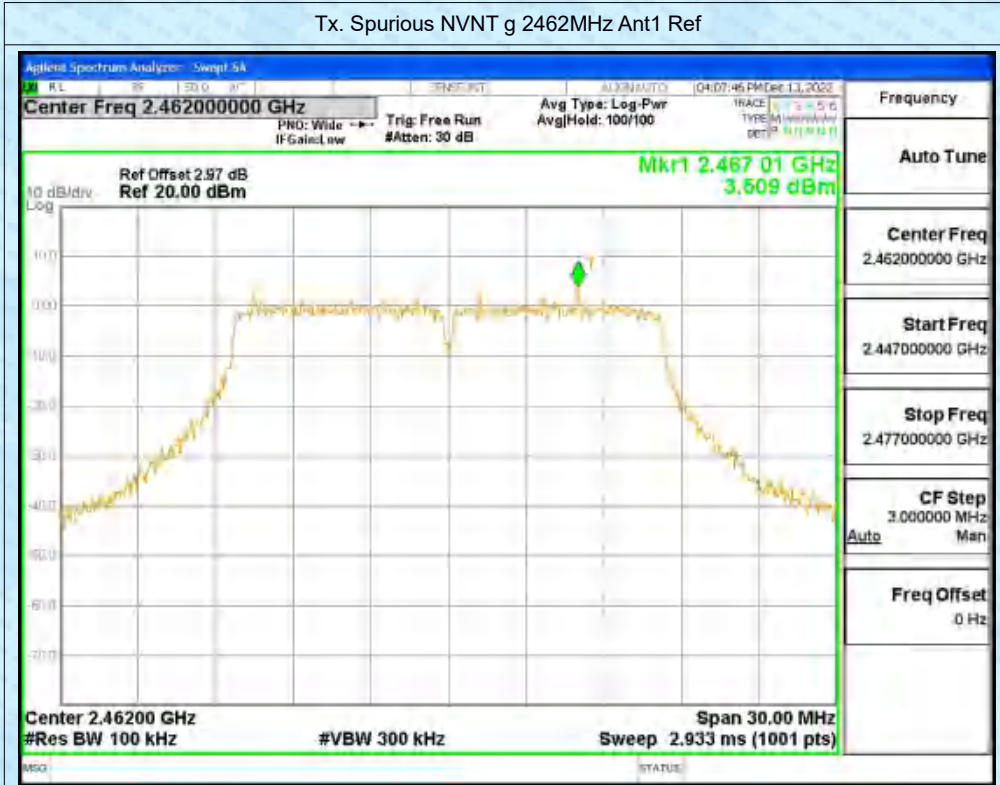
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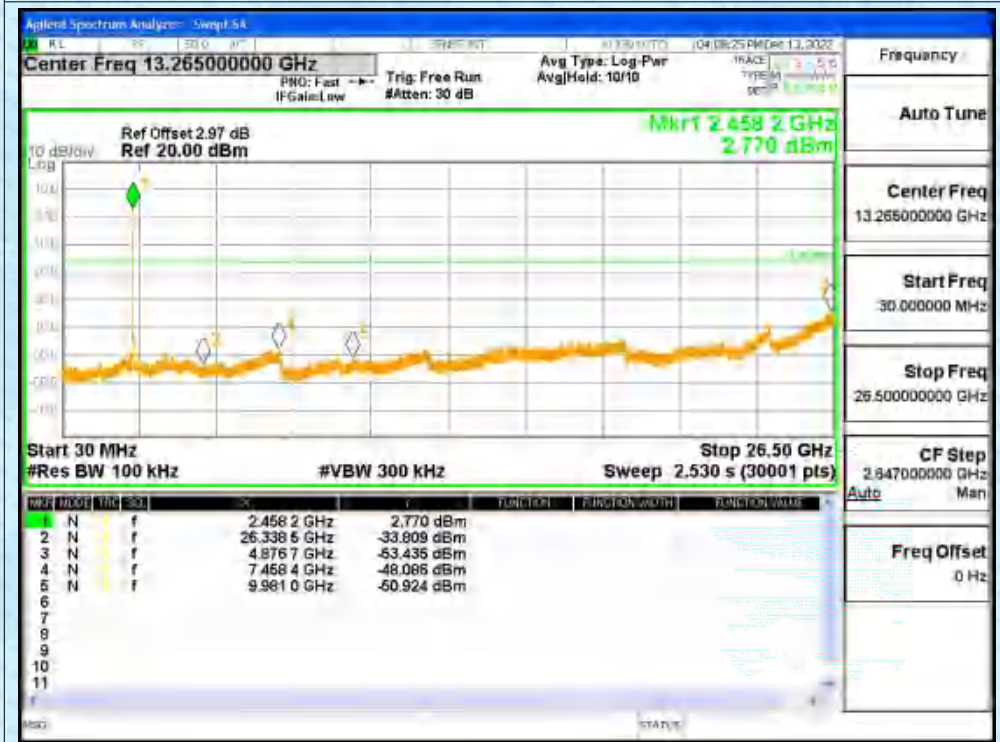
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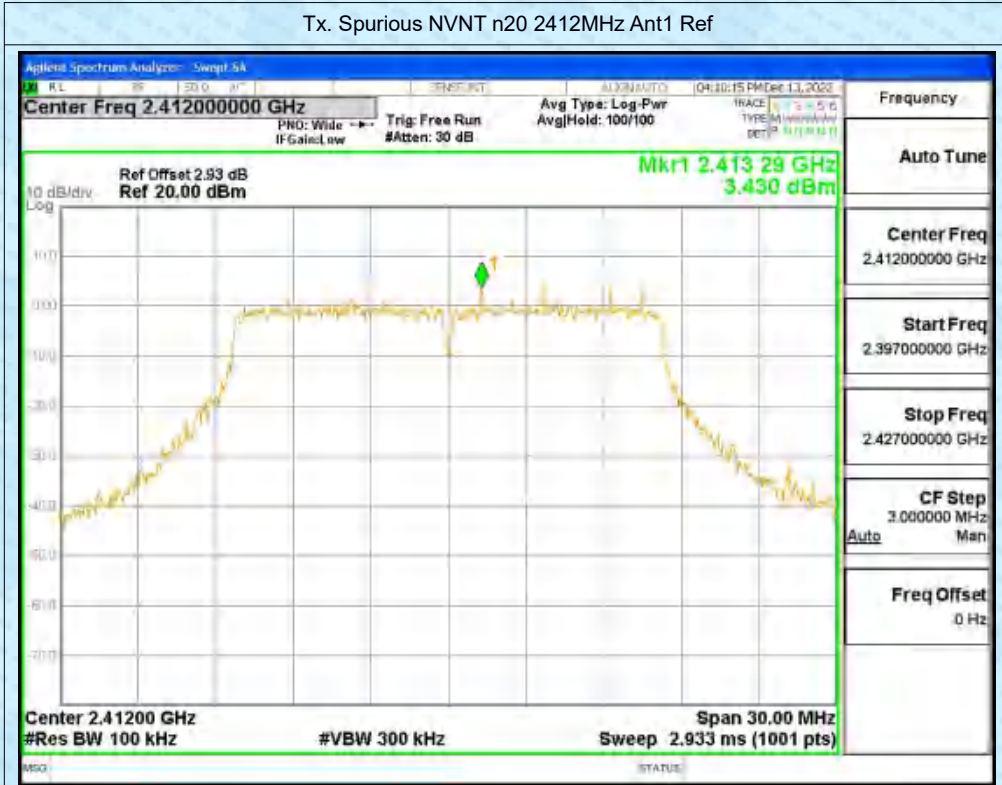
Tx. Spurious NVNT g 2462MHz Ant1 Ref



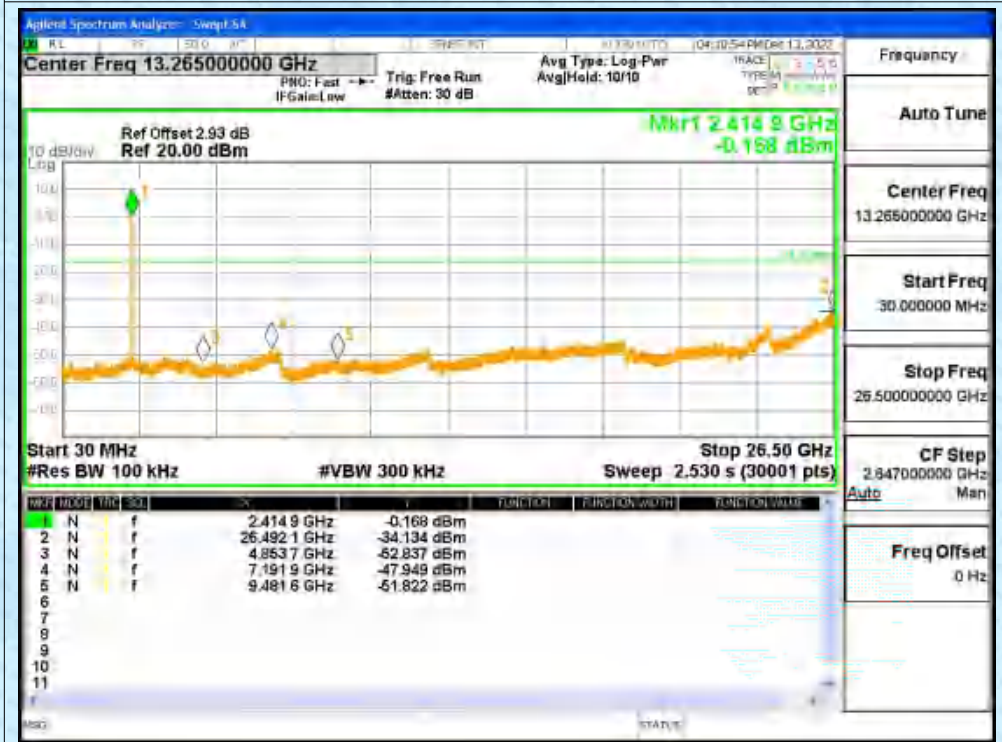
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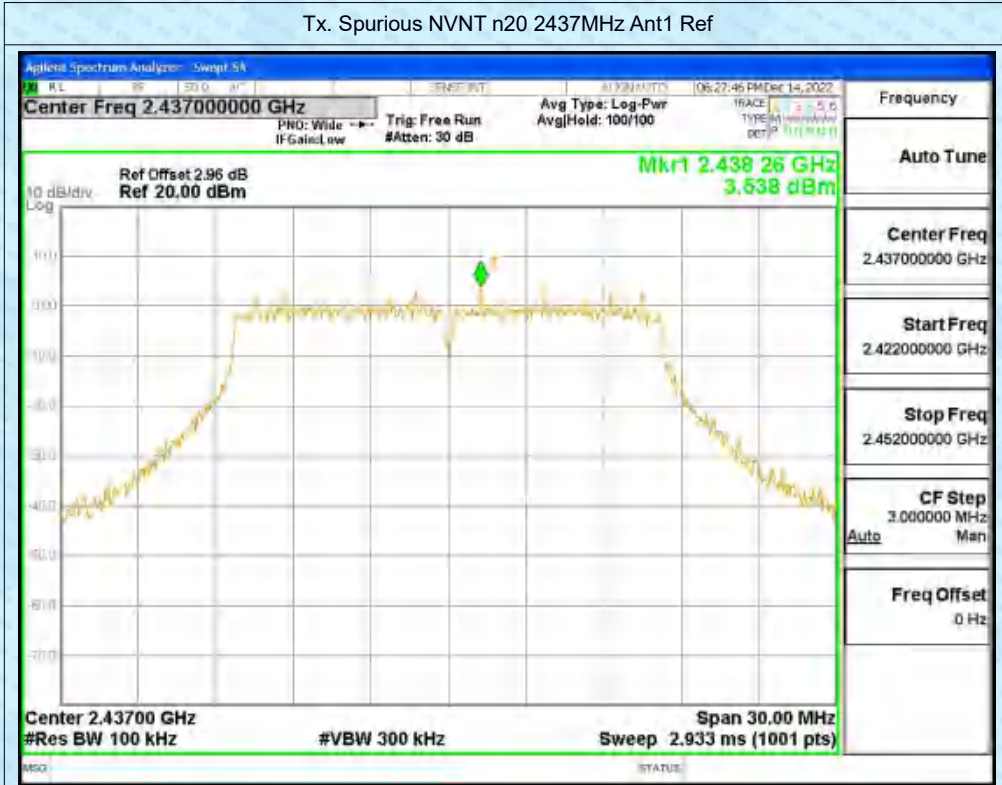
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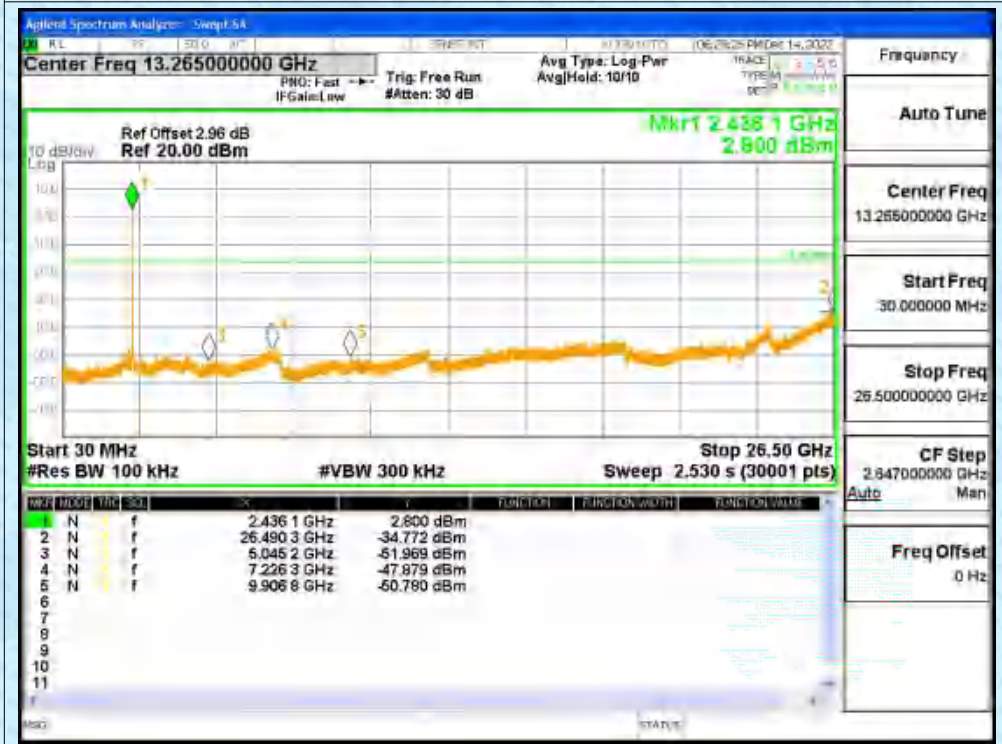
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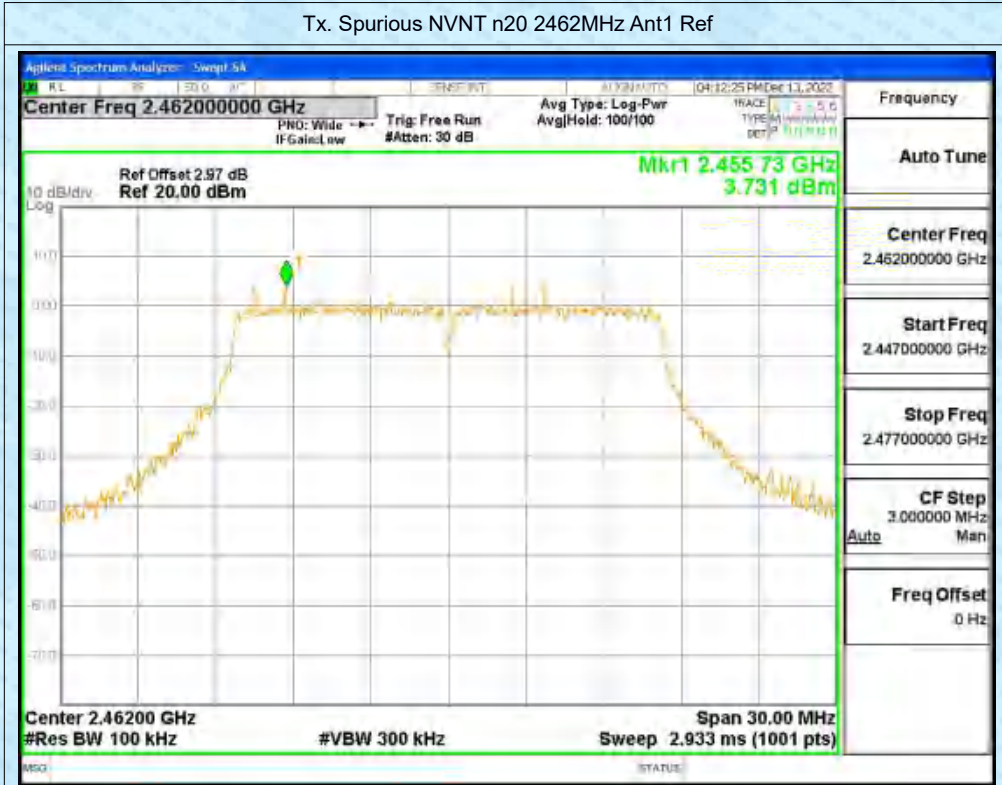
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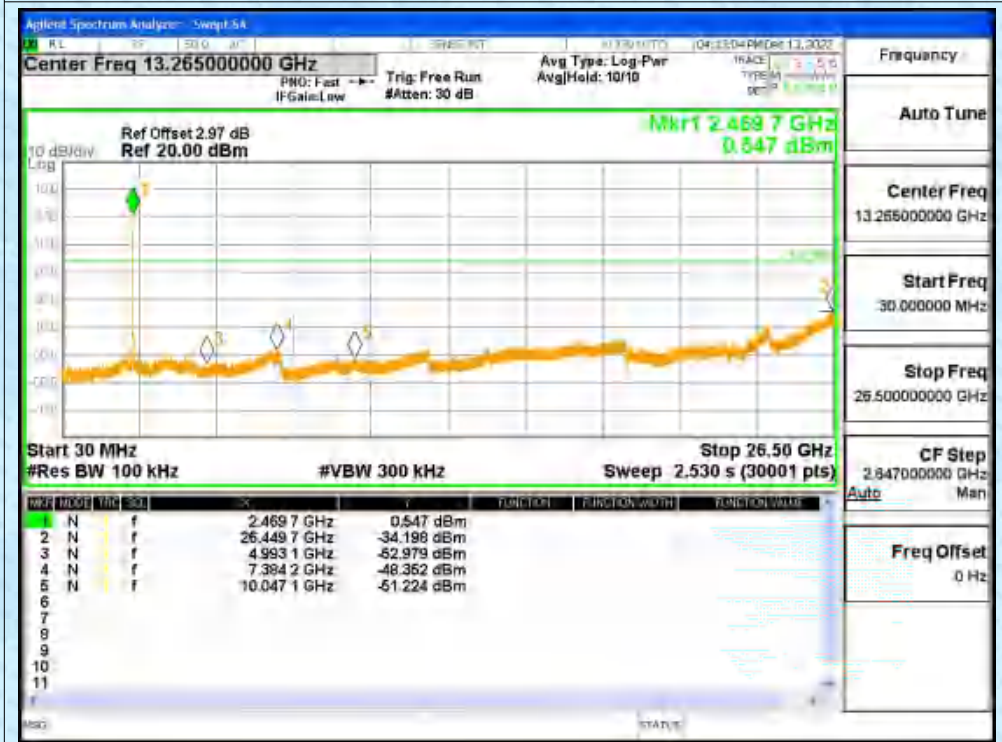
Tx. Spurious NVNT n20 2437MHz Ant1 Emission



Tx. Spurious NVNT n20 2462MHz Ant1 Ref

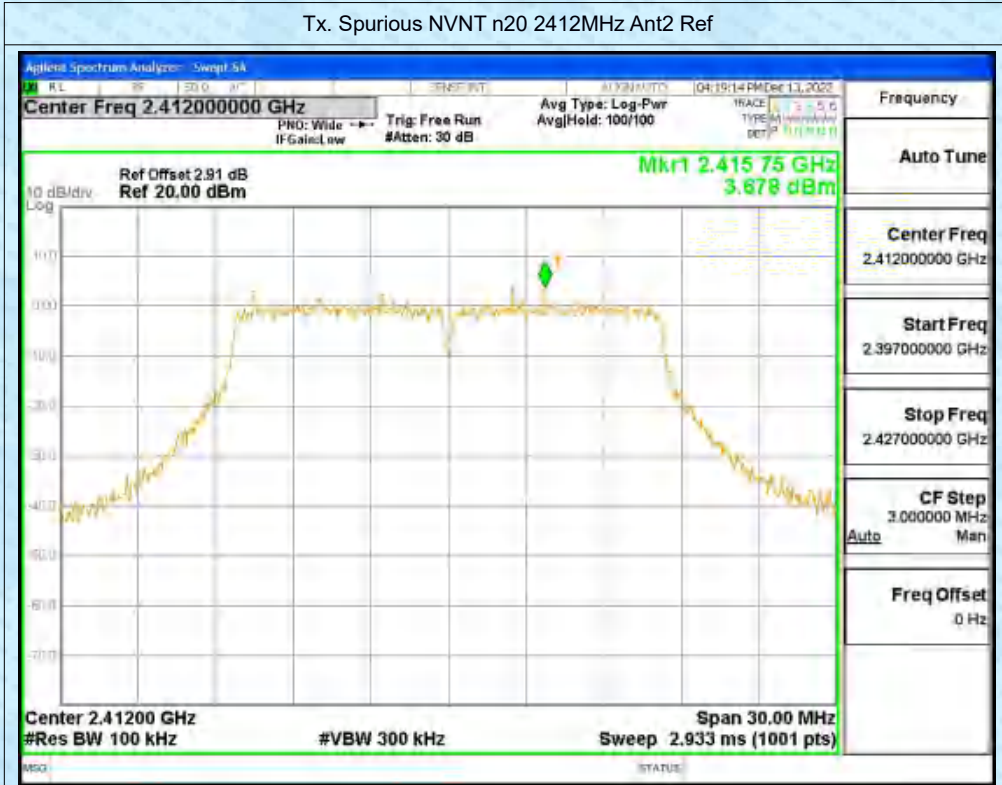


Tx. Spurious NVNT n20 2462MHz Ant1 Emission

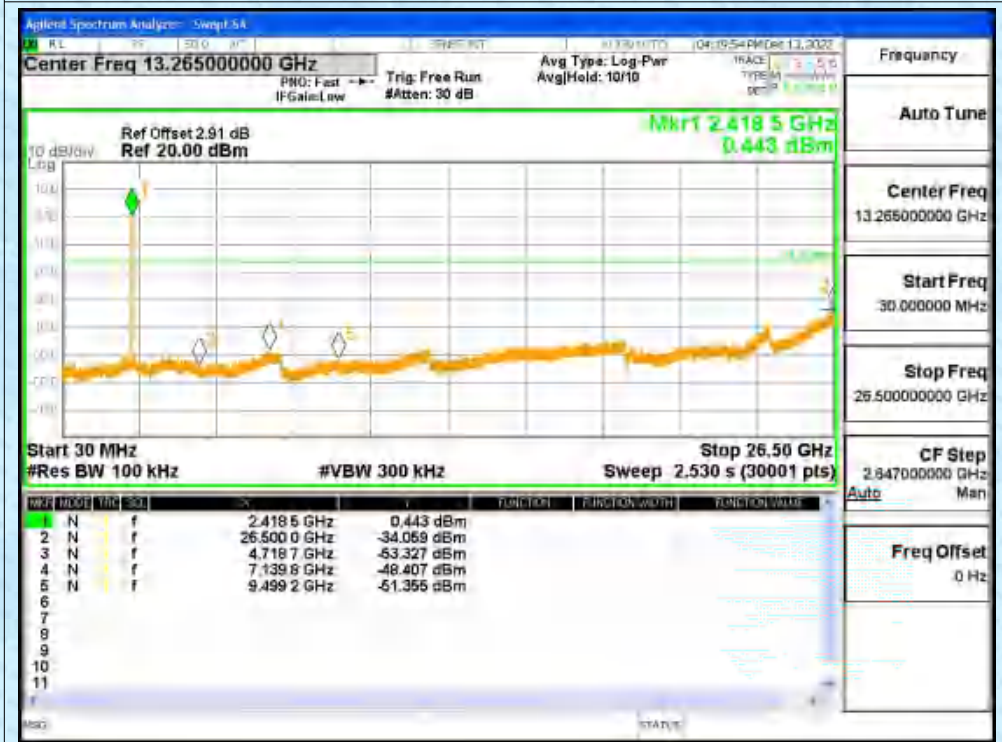




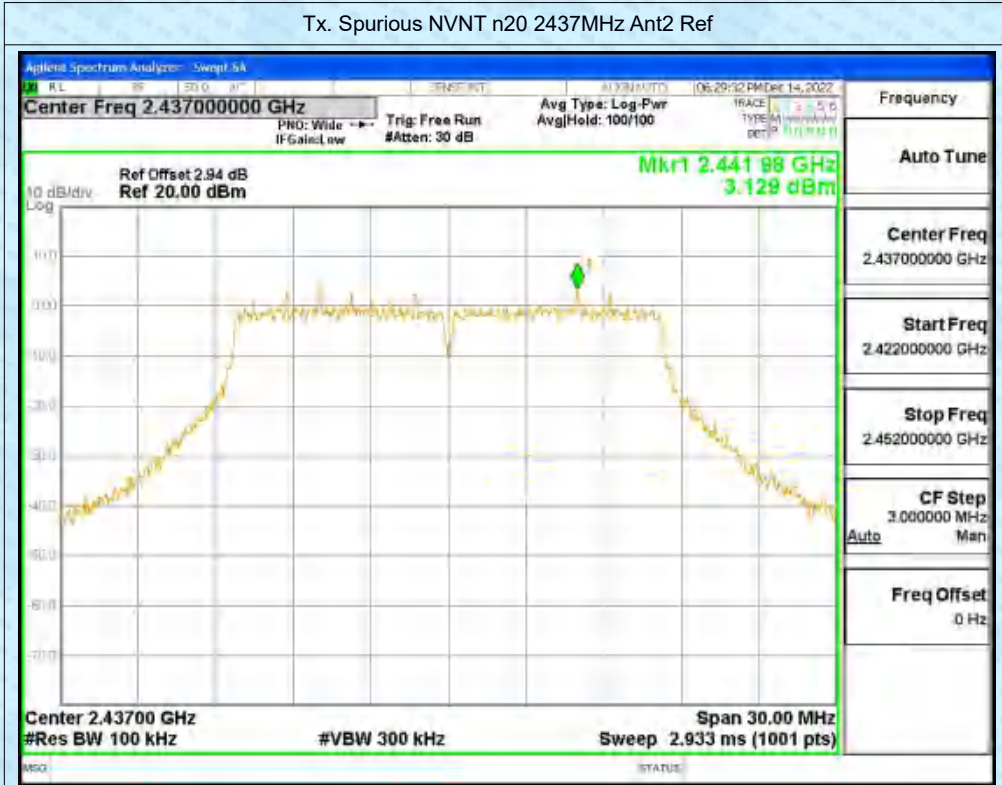
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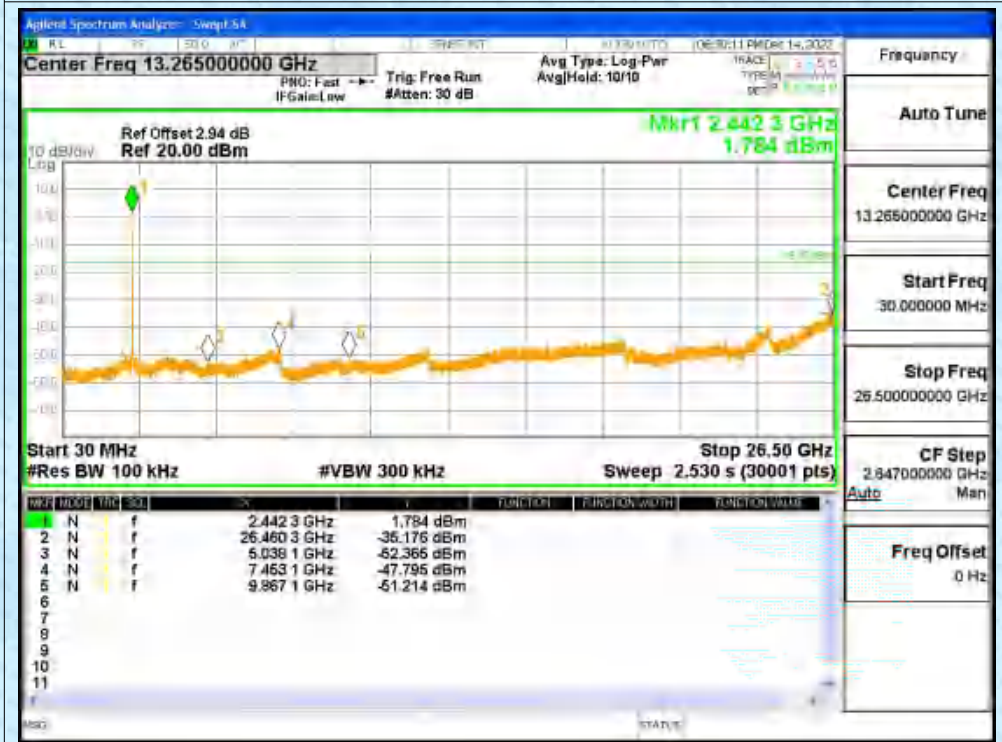
Tx. Spurious NVNT n20 2412MHz Ant2 Emission



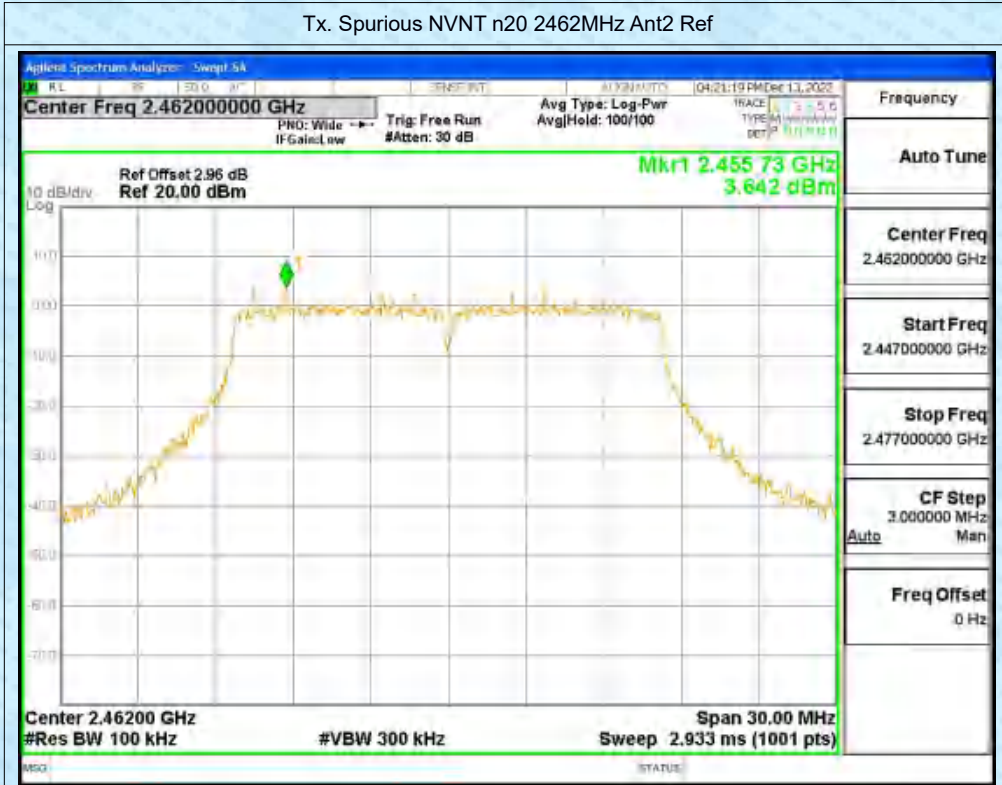
Tx. Spurious NVNT n20 2437MHz Ant2 Ref



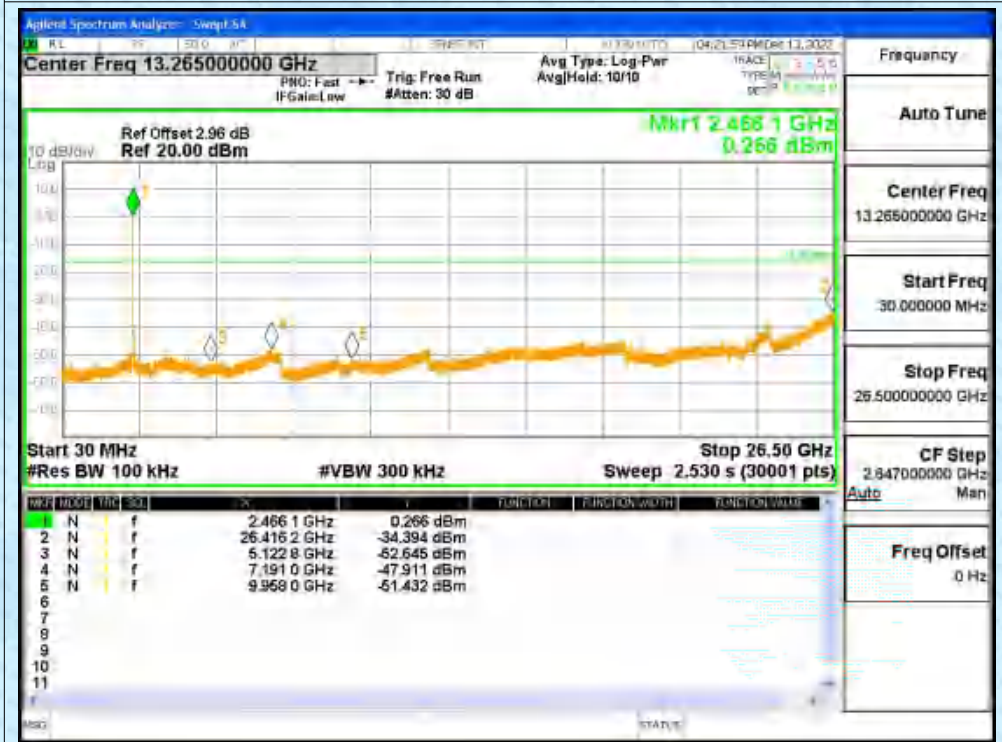
Tx. Spurious NVNT n20 2437MHz Ant2 Emission



Tx. Spurious NVNT n20 2462MHz Ant2 Ref



Tx. Spurious NVNT n20 2462MHz Ant2 Emission



-----End-----