

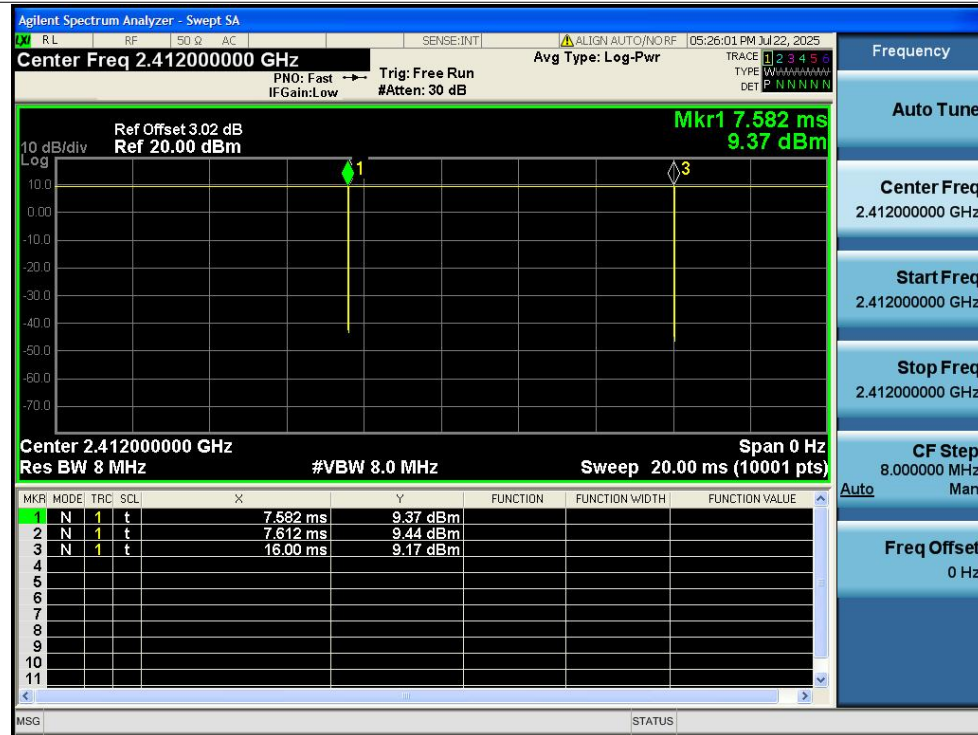
Appendix A 2.4G WiFi

Duty Cycle

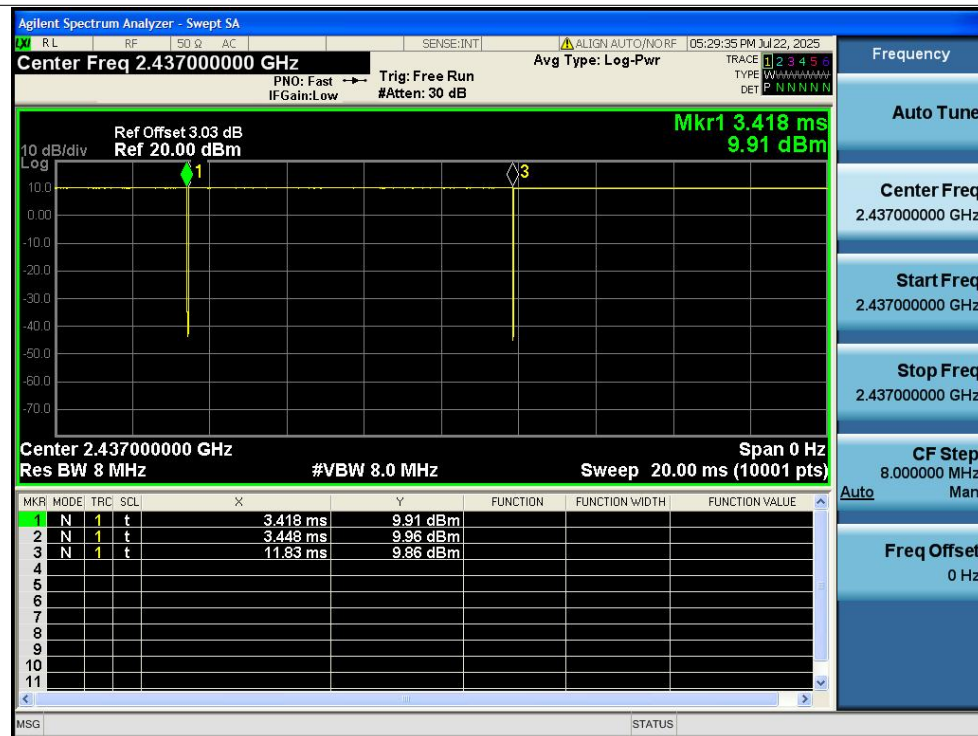
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.64	0.02	0.12
NVNT	b	2437	Ant1	99.64	0.02	0.12
NVNT	b	2462	Ant1	99.64	0.02	0.12
NVNT	g	2412	Ant1	97.48	0.11	0.72
NVNT	g	2437	Ant1	97.48	0.11	0.72
NVNT	g	2462	Ant1	97.62	0.1	0.72
NVNT	n20	2412	Ant1	99.49	0.02	0
NVNT	n20	2437	Ant1	97.31	0.12	0.77
NVNT	n20	2462	Ant1	97.45	0.11	0.77

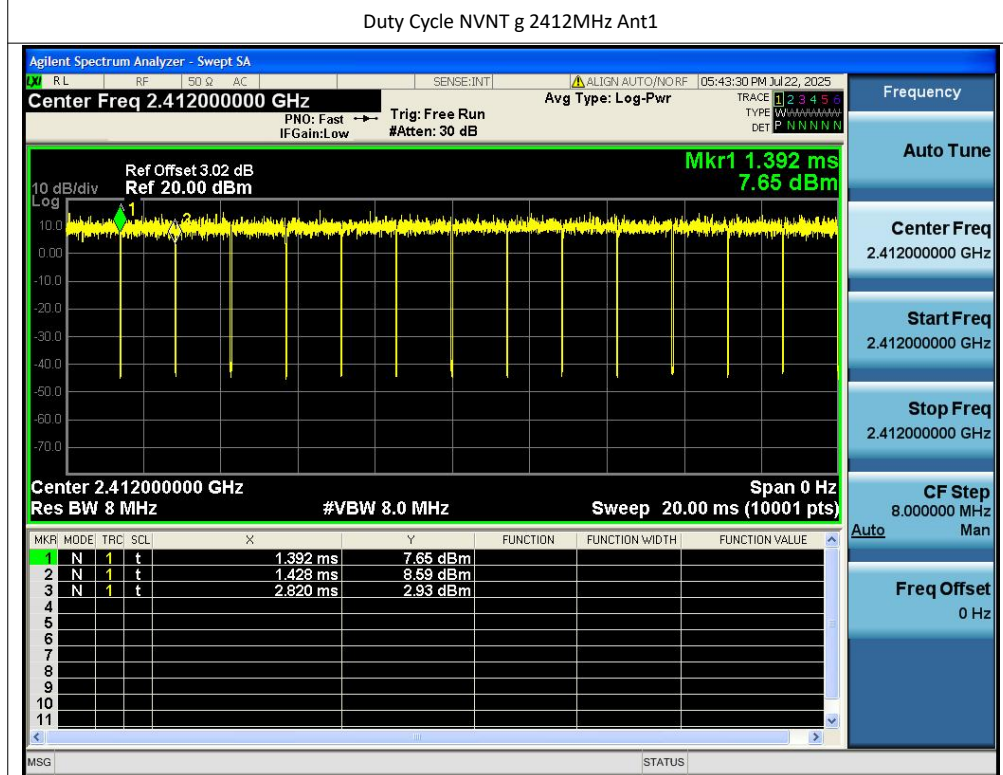
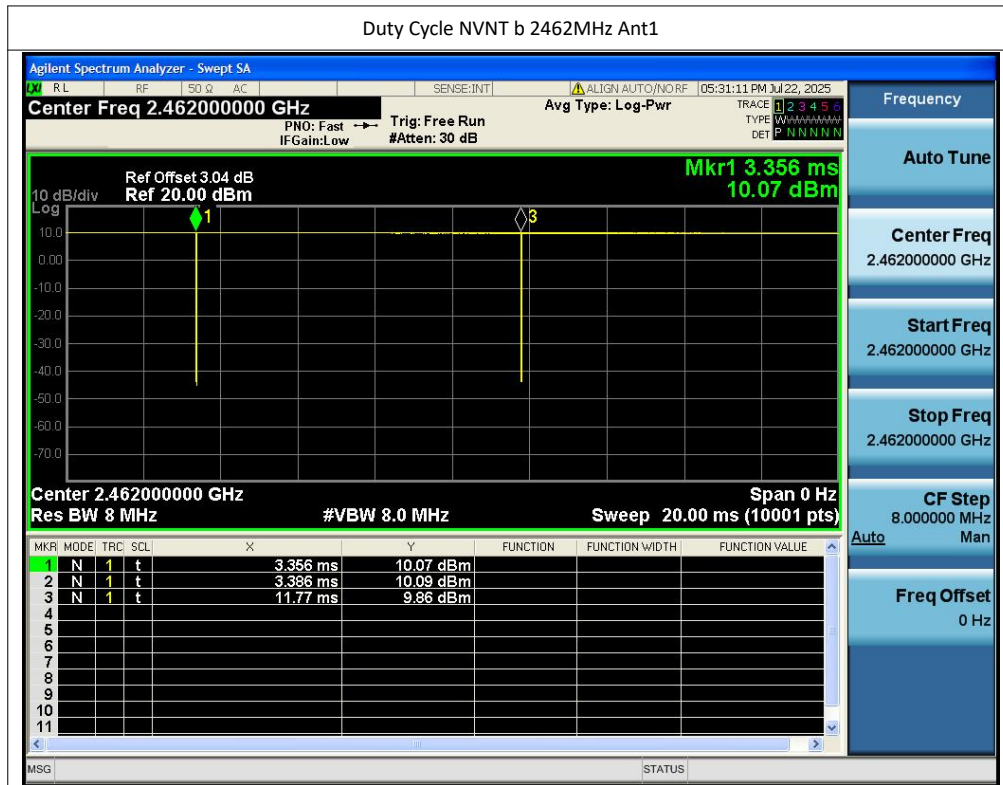
Test Graphs

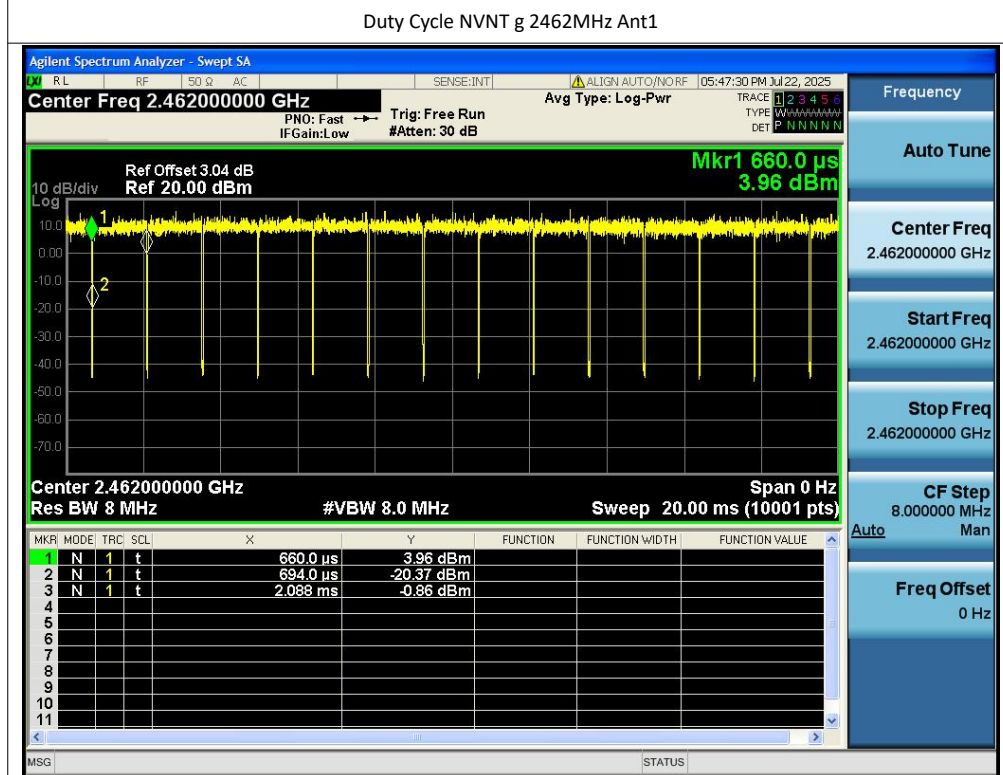
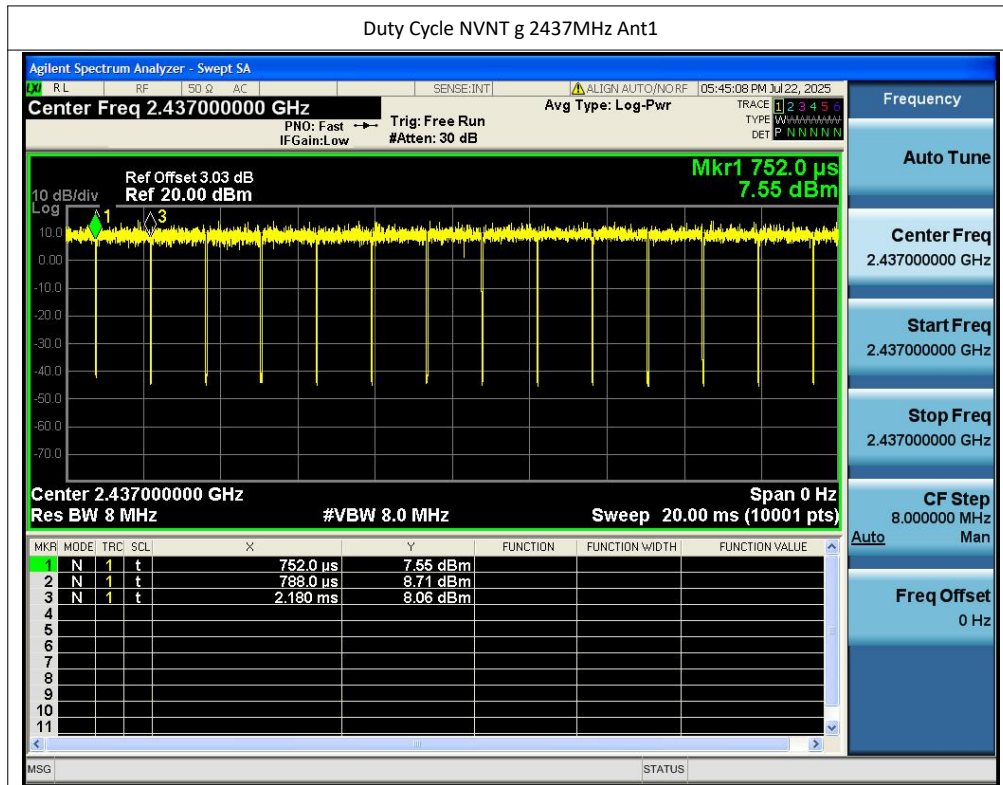
Duty Cycle NVNT b 2412MHz Ant1



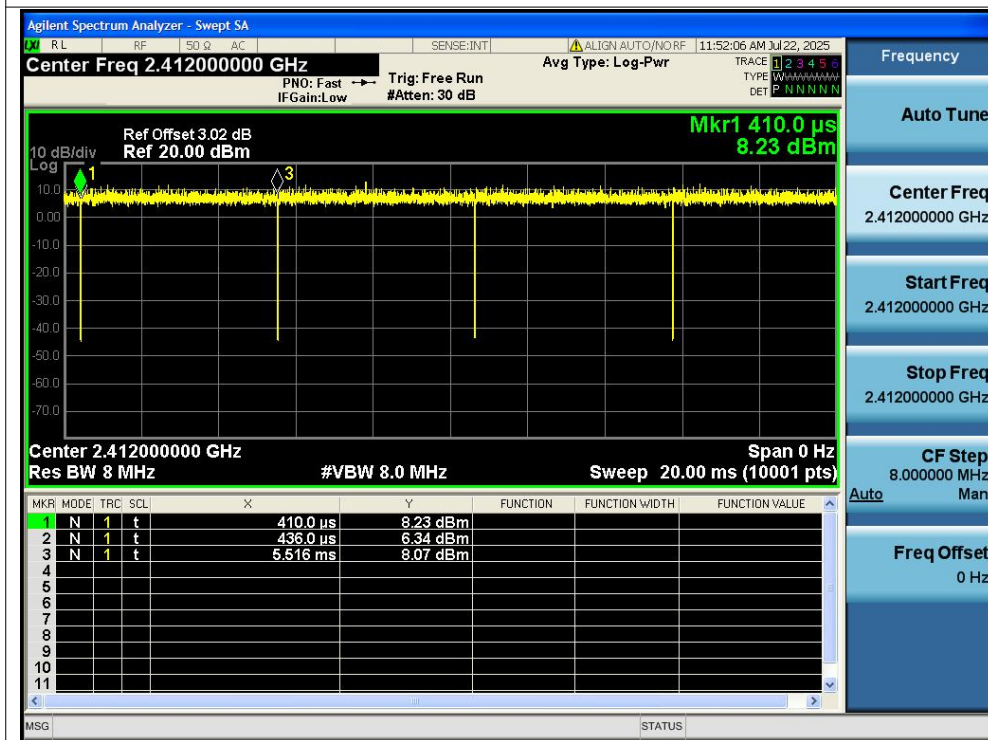
Duty Cycle NVNT b 2437MHz Ant1



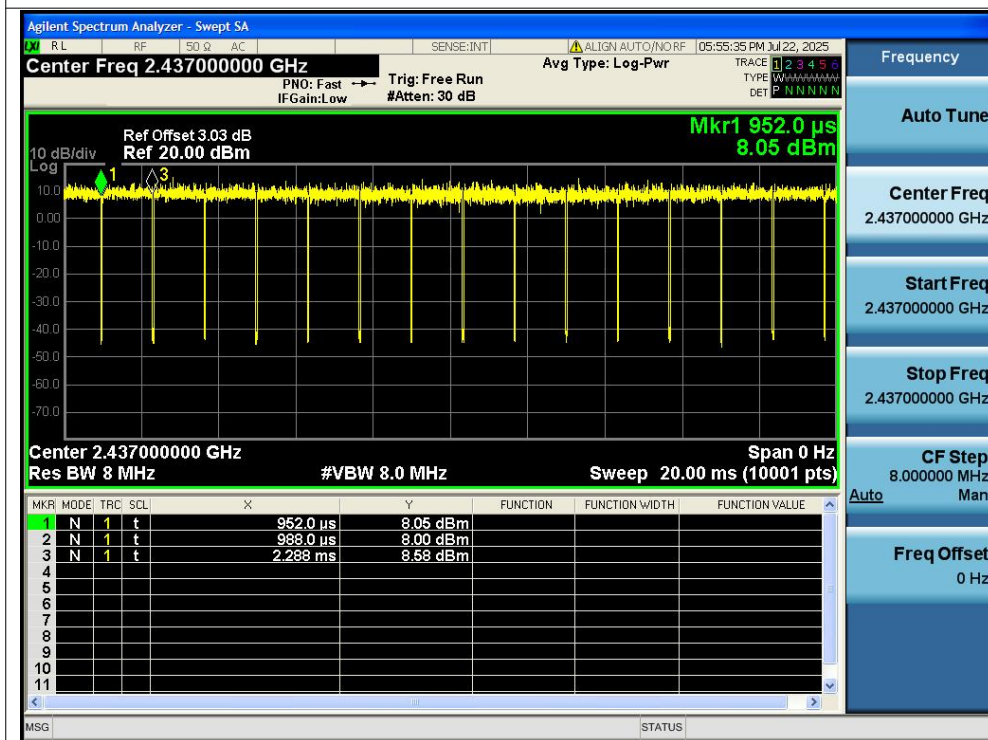


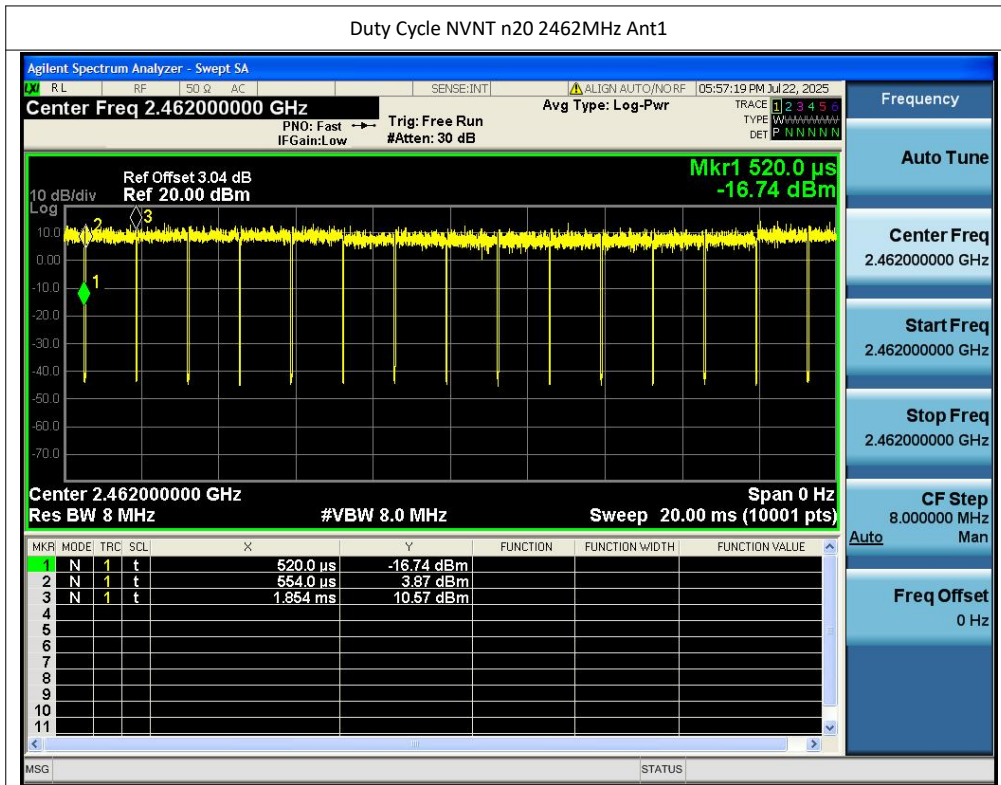


Duty Cycle NVNT n20 2412MHz Ant1



Duty Cycle NVNT n20 2437MHz Ant1



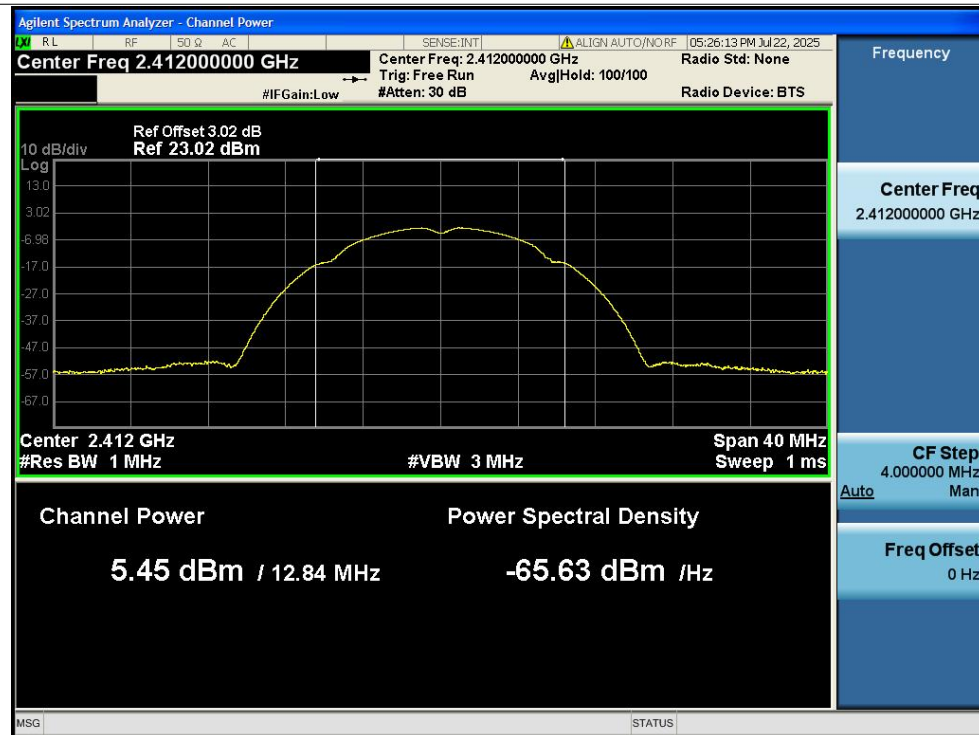


Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	5.45	0.02	5.47	30	Pass
NVNT	b	2437	Ant1	5.87	0.02	5.89	30	Pass
NVNT	b	2462	Ant1	5.71	0.02	5.73	30	Pass
NVNT	g	2412	Ant1	6.58	0.11	6.69	30	Pass
NVNT	g	2437	Ant1	5.65	0.11	5.76	30	Pass
NVNT	g	2462	Ant1	6.51	0.1	6.61	30	Pass
NVNT	n20	2412	Ant1	6.35	0.11	6.46	30	Pass
NVNT	n20	2437	Ant1	5.71	0.12	5.83	30	Pass
NVNT	n20	2462	Ant1	5.62	0.11	5.73	30	Pass

Test Graphs

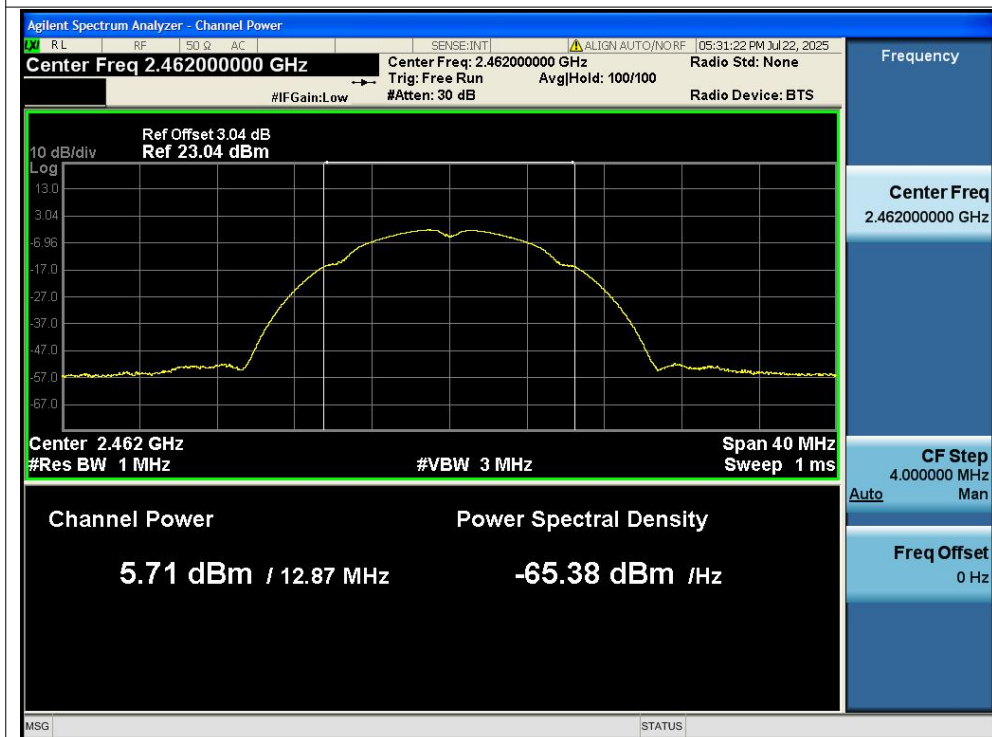
Power NVNT b 2412MHz Ant1



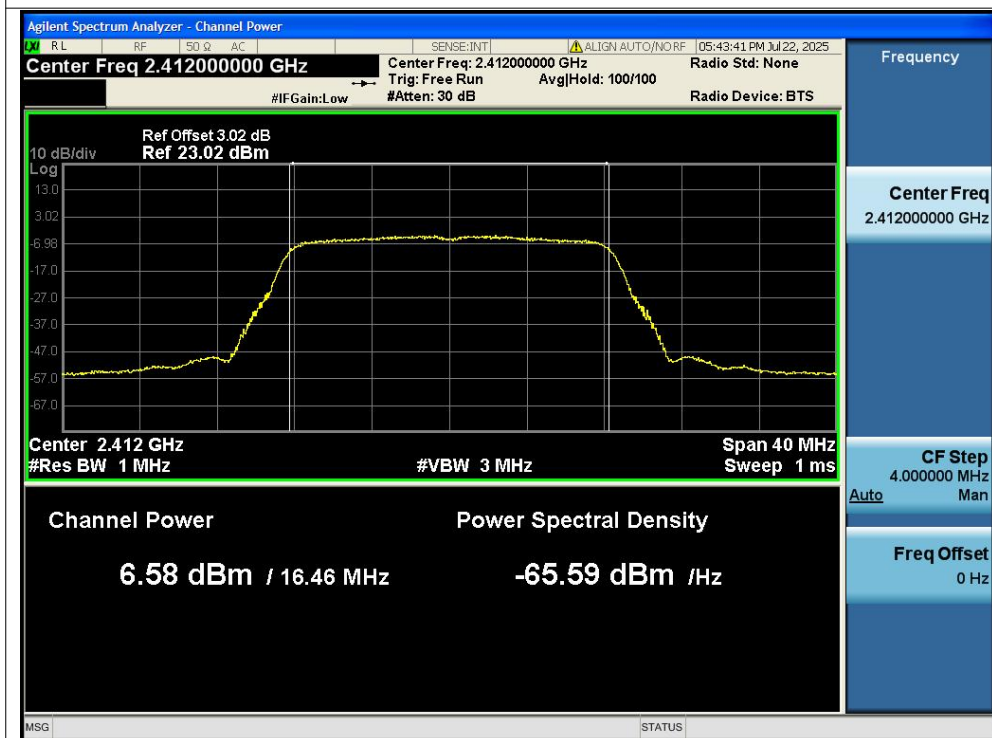
Power NVNT b 2437MHz Ant1

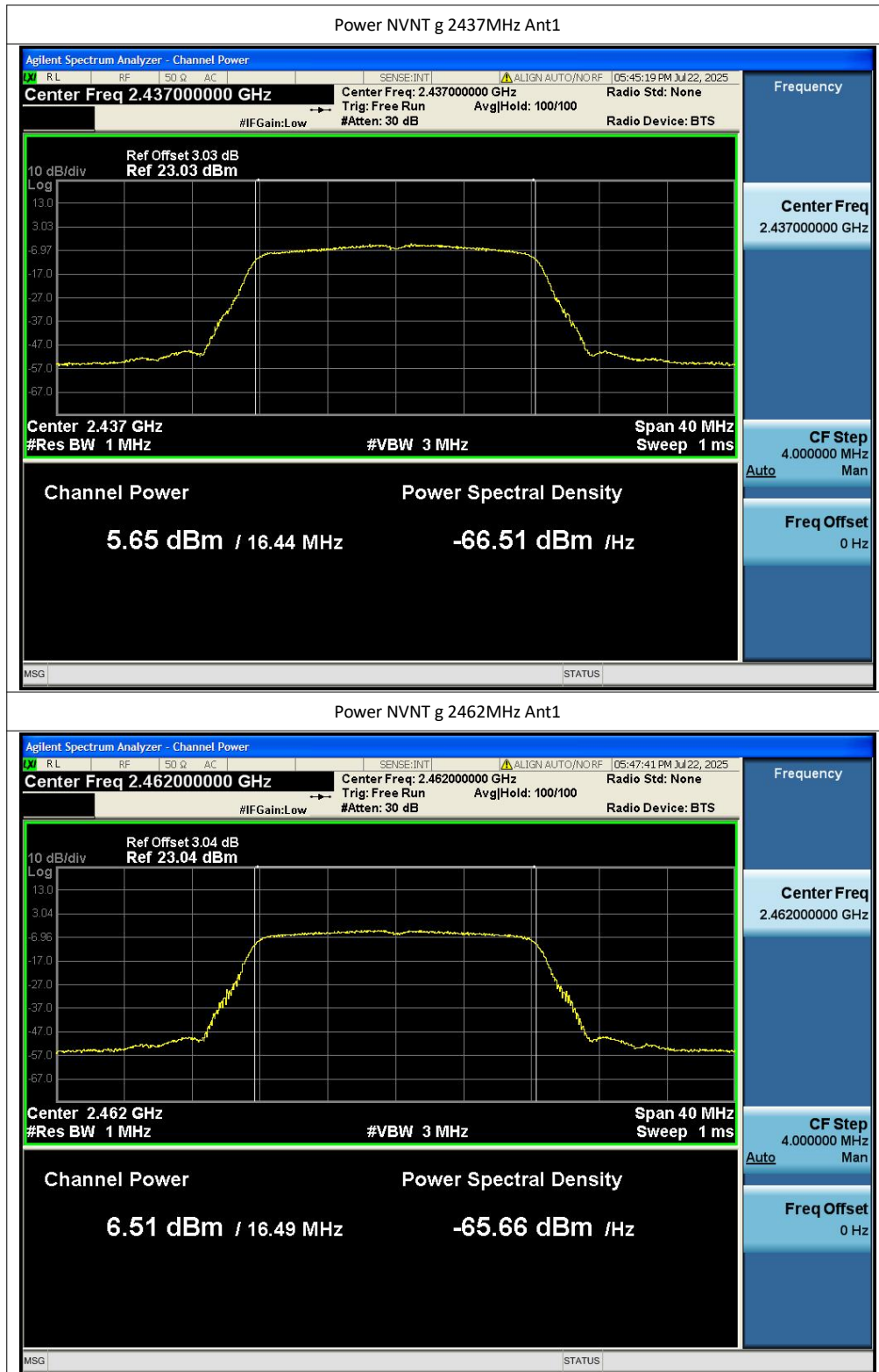


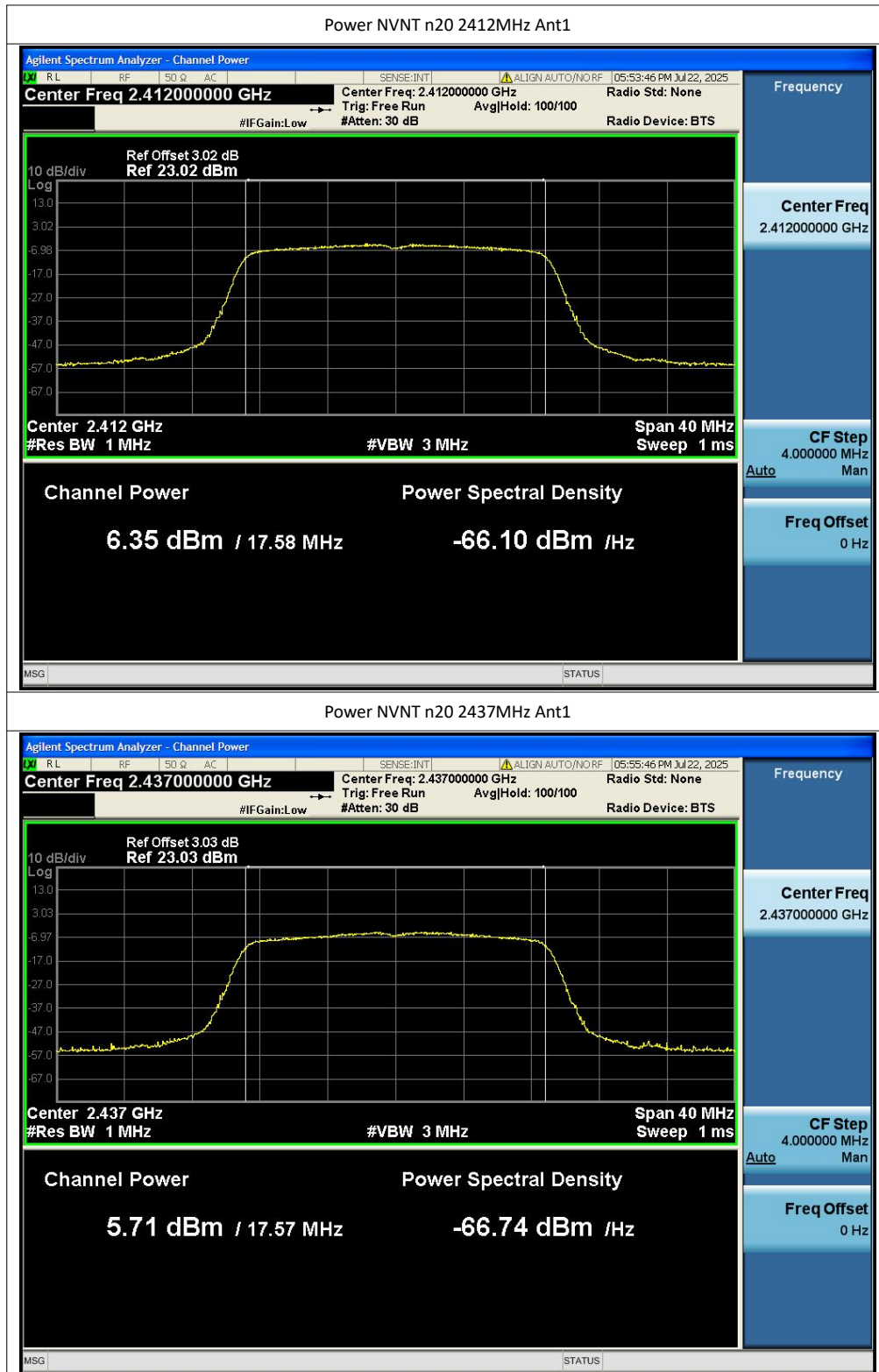
Power NVNT b 2462MHz Ant1

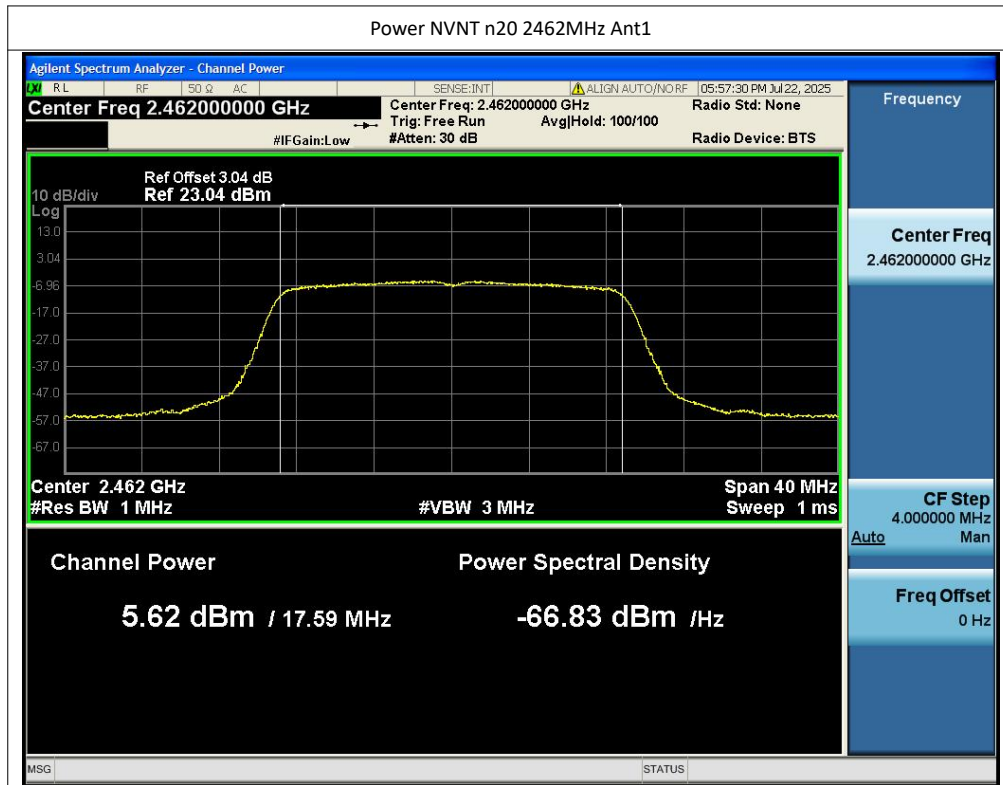


Power NVNT g 2412MHz Ant1









-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	7.559	0.5	Pass
NVNT	b	2437	Ant1	8.085	0.5	Pass
NVNT	b	2462	Ant1	8.05	0.5	Pass
NVNT	g	2412	Ant1	15.802	0.5	Pass
NVNT	g	2437	Ant1	15.644	0.5	Pass
NVNT	g	2462	Ant1	16.289	0.5	Pass
NVNT	n20	2412	Ant1	16.149	0.5	Pass
NVNT	n20	2437	Ant1	14.974	0.5	Pass
NVNT	n20	2462	Ant1	15.156	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



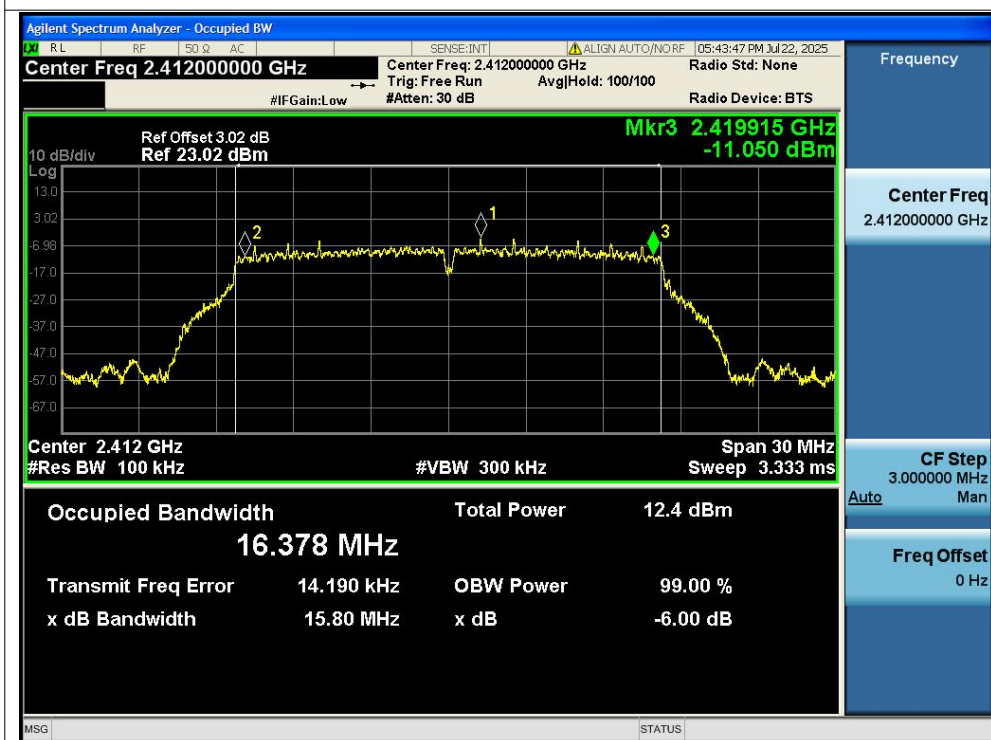
-6dB Bandwidth NVNT b 2437MHz Ant1



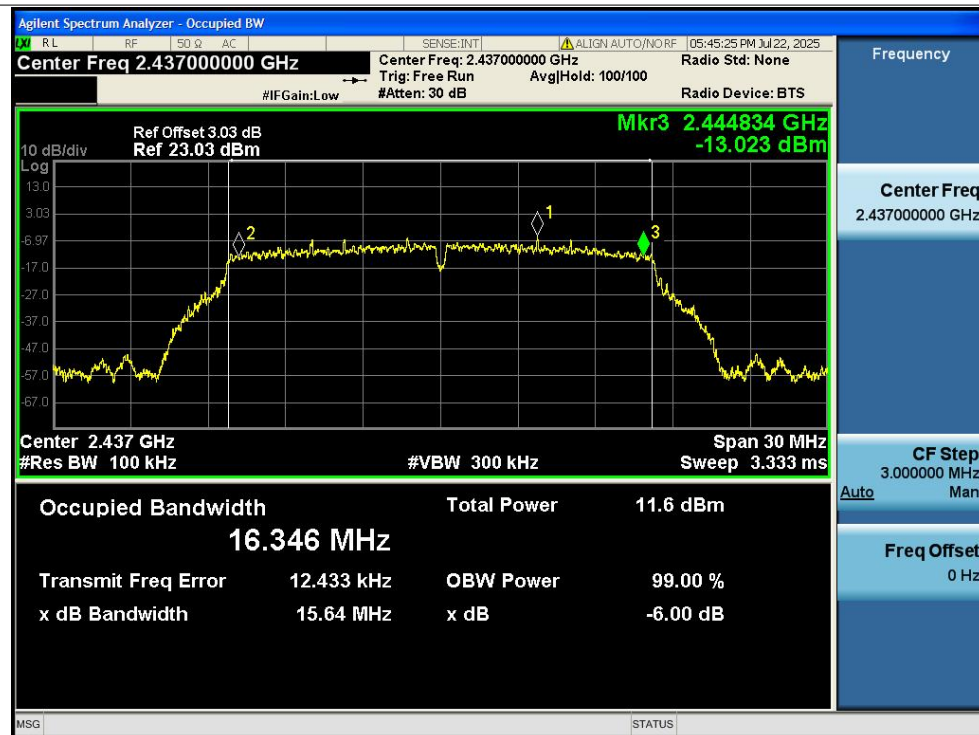
-6dB Bandwidth NVNT b 2462MHz Ant1



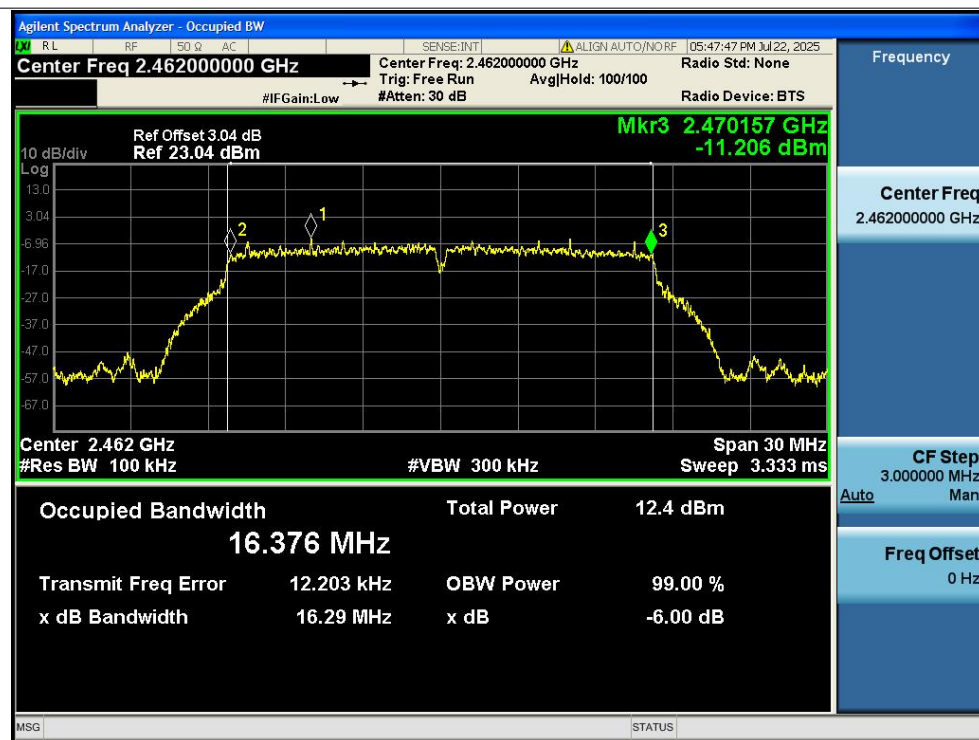
-6dB Bandwidth NVNT g 2412MHz Ant1



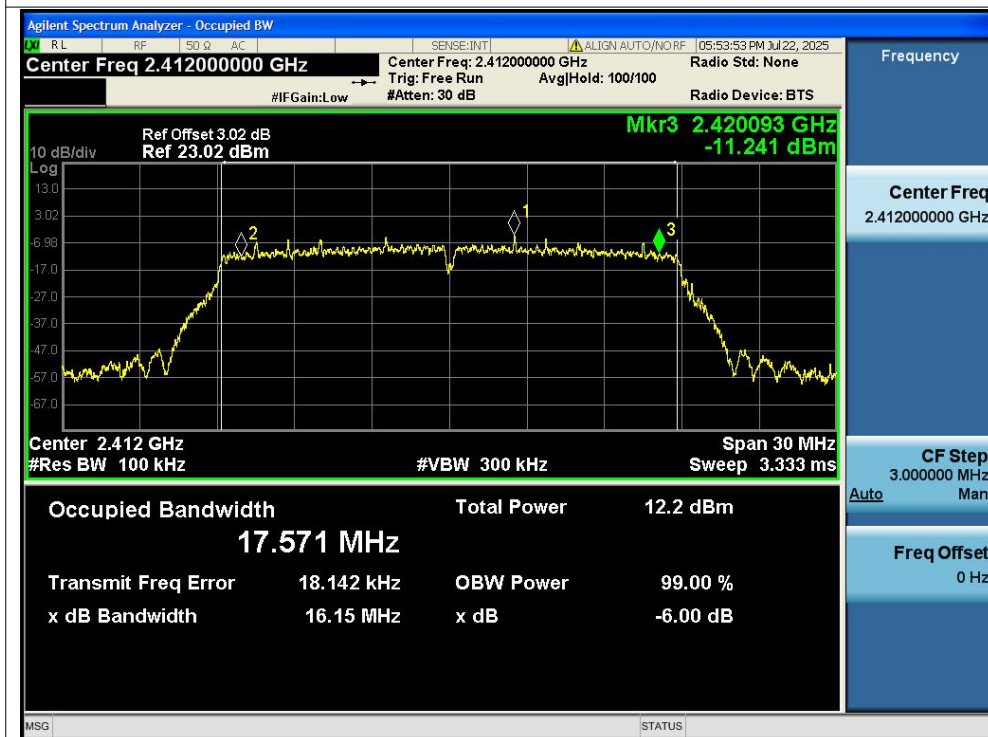
-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1

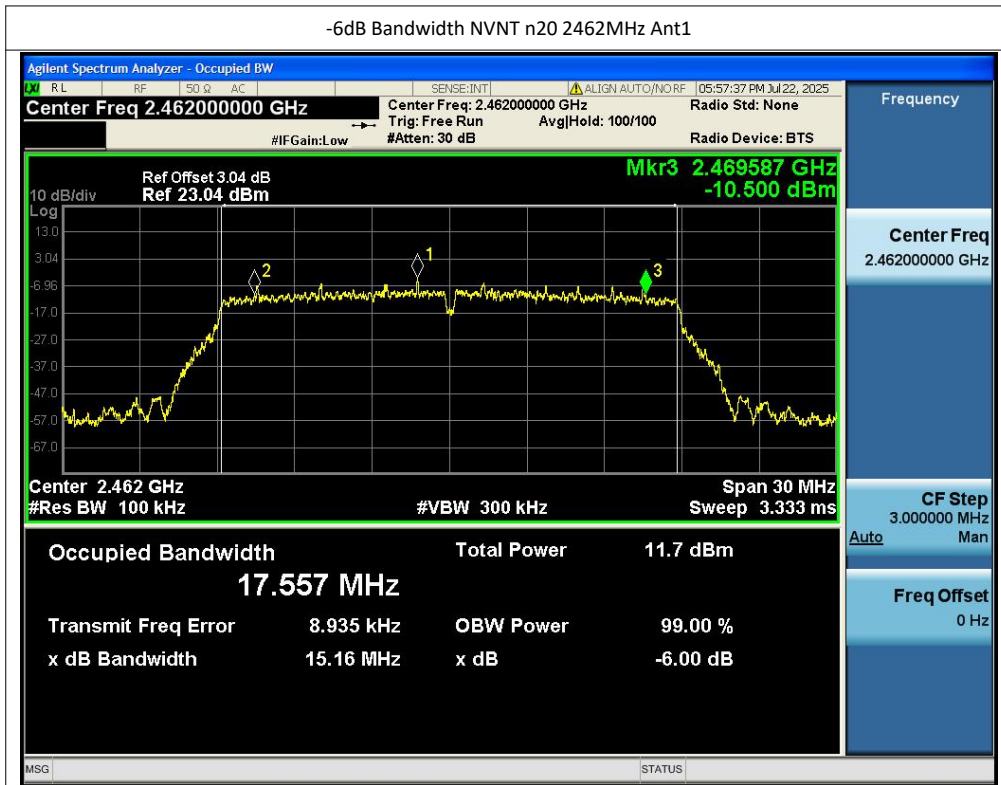


-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1





Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.836
NVNT	b	2437	Ant1	12.741
NVNT	b	2462	Ant1	12.872
NVNT	g	2412	Ant1	16.459
NVNT	g	2437	Ant1	16.438
NVNT	g	2462	Ant1	16.492
NVNT	n20	2412	Ant1	17.578
NVNT	n20	2437	Ant1	17.567
NVNT	n20	2462	Ant1	17.588

Test Graphs

OBW NVNT b 2412MHz Ant1



OBW NVNT b 2437MHz Ant1



OBW NVNT b 2462MHz Ant1



OBW NVNT g 2412MHz Ant1



OBW NVNT g 2437MHz Ant1



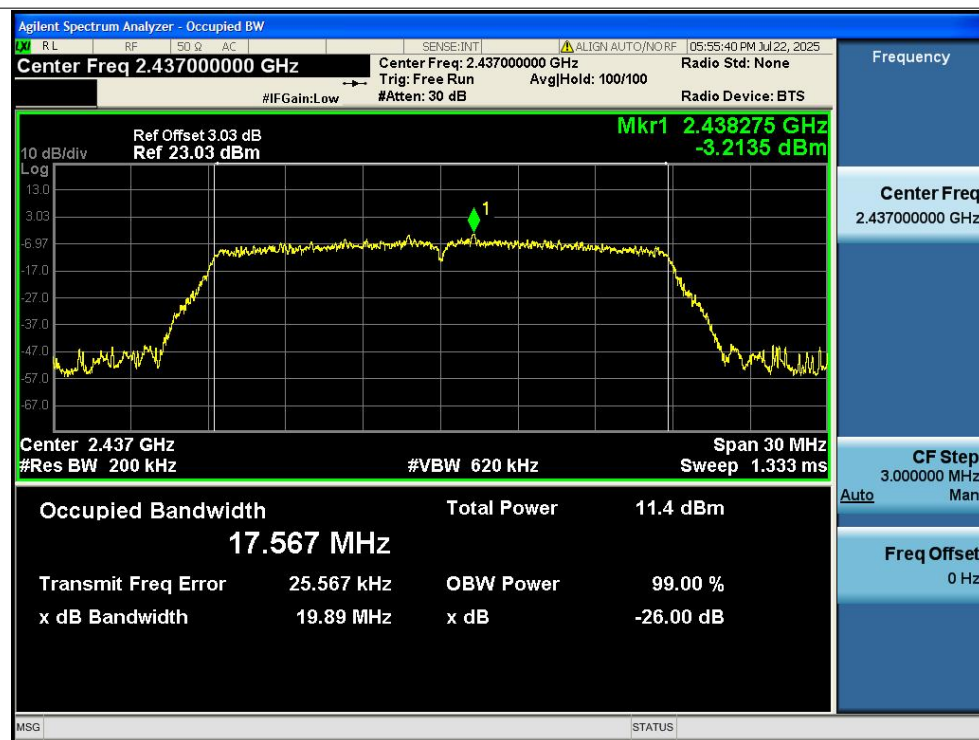
OBW NVNT g 2462MHz Ant1

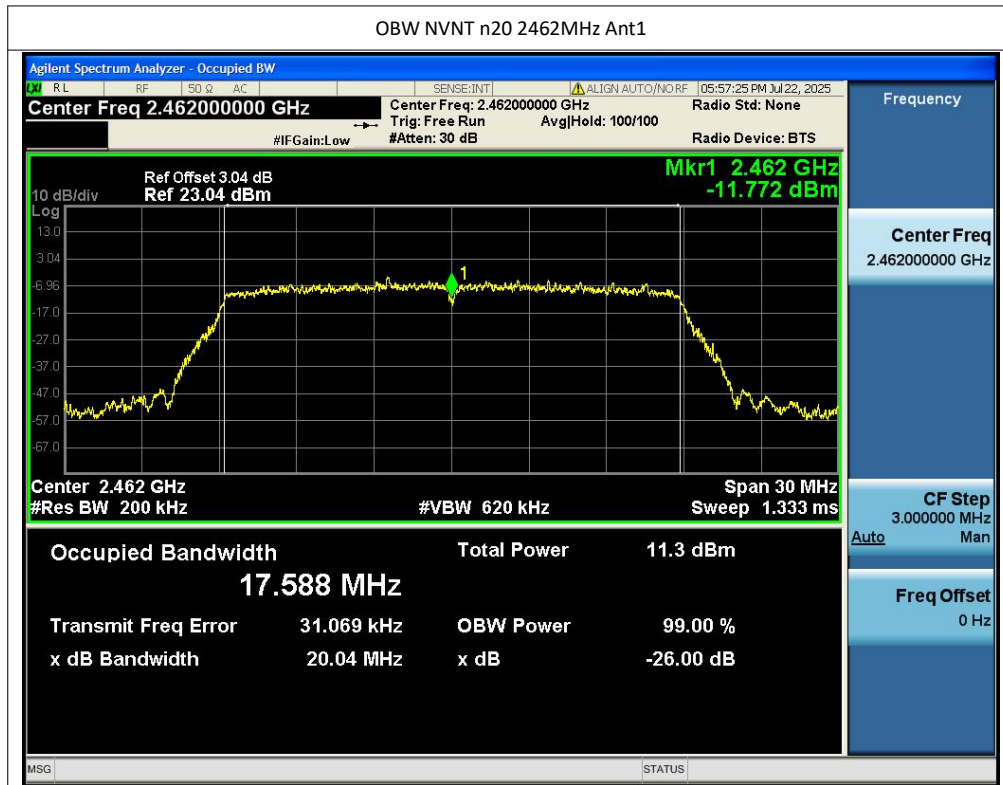


OBW NVNT n20 2412MHz Ant1



OBW NVNT n20 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	b	2412	Ant1	-11.31	0.02	-11.29	8	Pass
NVNT	b	2437	Ant1	-10.5	0.02	-10.48	8	Pass
NVNT	b	2462	Ant1	-10.45	0.02	-10.43	8	Pass
NVNT	g	2412	Ant1	-12.86	0.11	-12.75	8	Pass
NVNT	g	2437	Ant1	-13.62	0.11	-13.51	8	Pass
NVNT	g	2462	Ant1	-12.72	0.1	-12.62	8	Pass
NVNT	n20	2412	Ant1	-13.03	0.11	-12.92	8	Pass
NVNT	n20	2437	Ant1	-13.11	0.12	-12.99	8	Pass
NVNT	n20	2462	Ant1	-13.75	0.11	-13.64	8	Pass

Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1

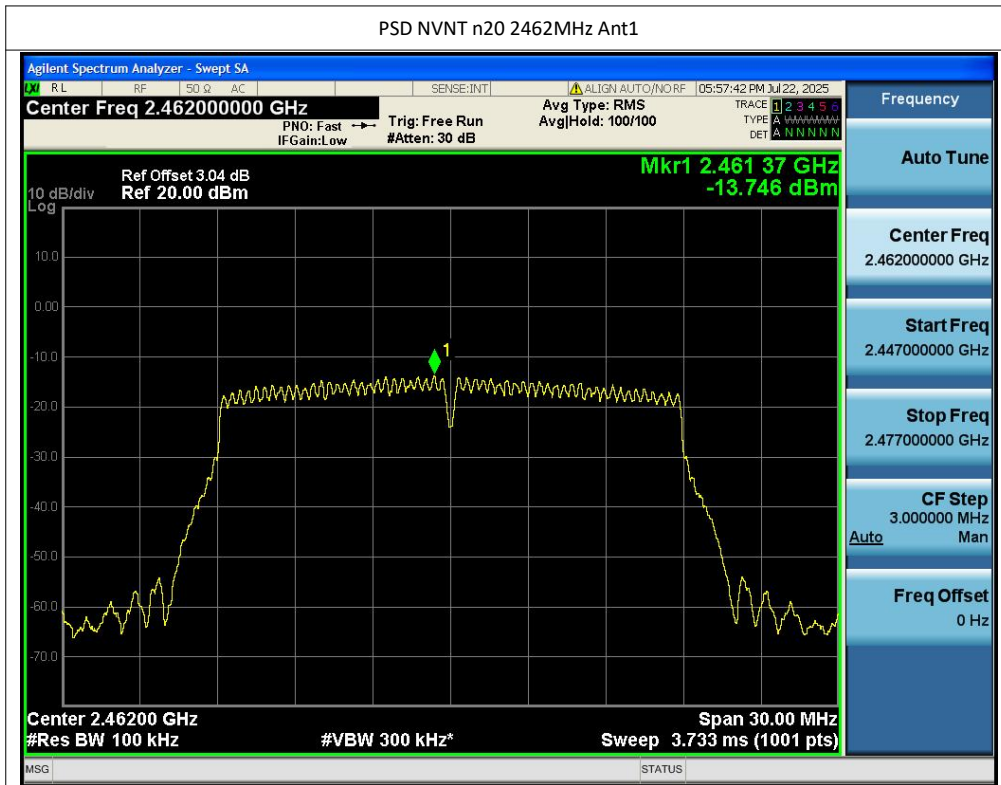


PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1





Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-50.11	-30	Pass
NVNT	b	2462	Ant1	-50.83	-30	Pass
NVNT	g	2412	Ant1	-43.34	-30	Pass
NVNT	g	2462	Ant1	-50.72	-30	Pass
NVNT	n20	2412	Ant1	-45.36	-30	Pass
NVNT	n20	2462	Ant1	-49.18	-30	Pass