

Appendix B

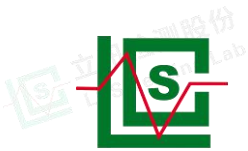
RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: LED Down Light
Test Model: US-GL6A-1

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling.zhu
Supervised by:	Libin

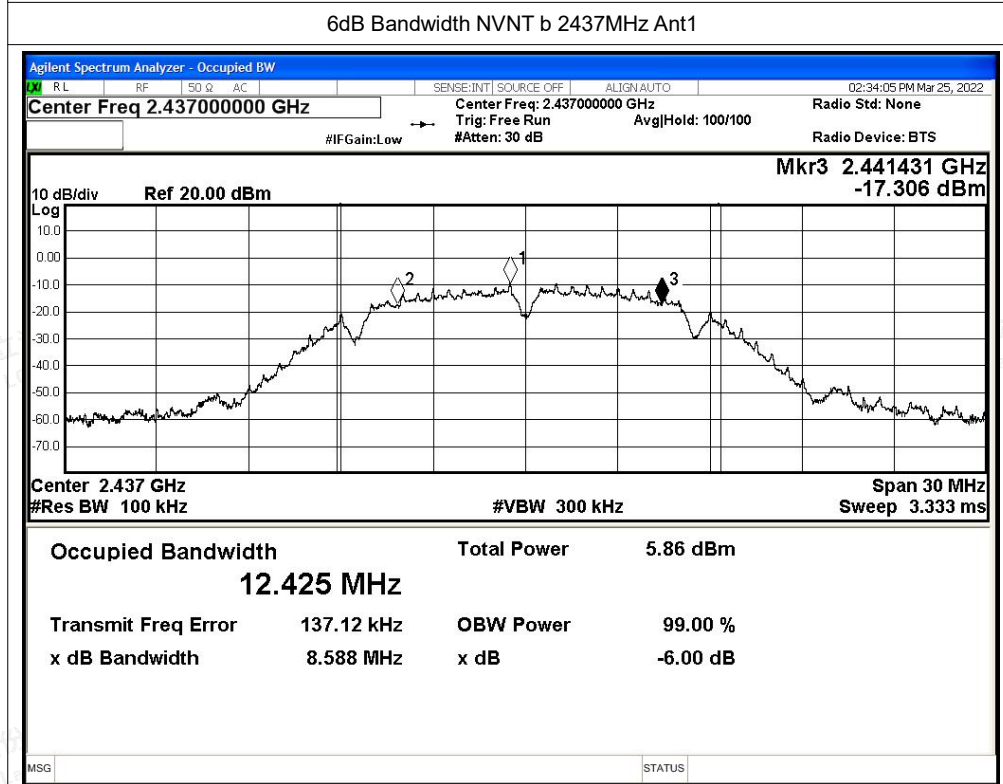
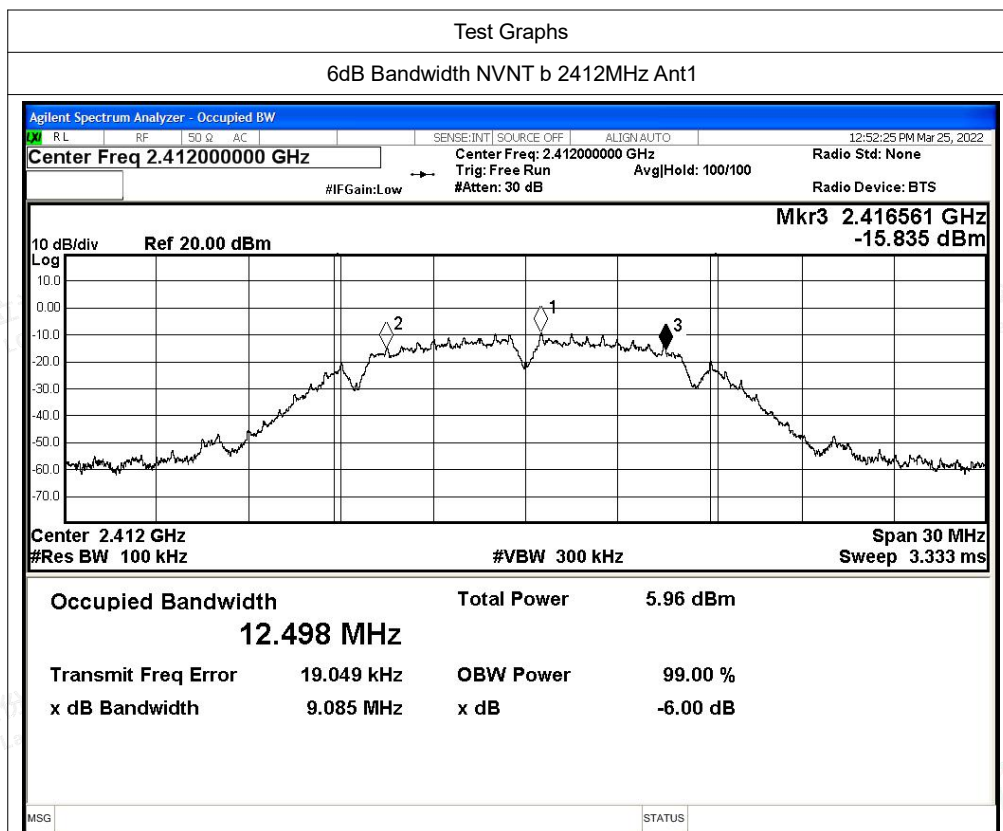
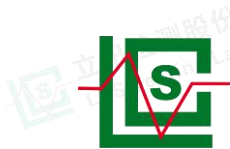




B.1 6dB Bandwidth

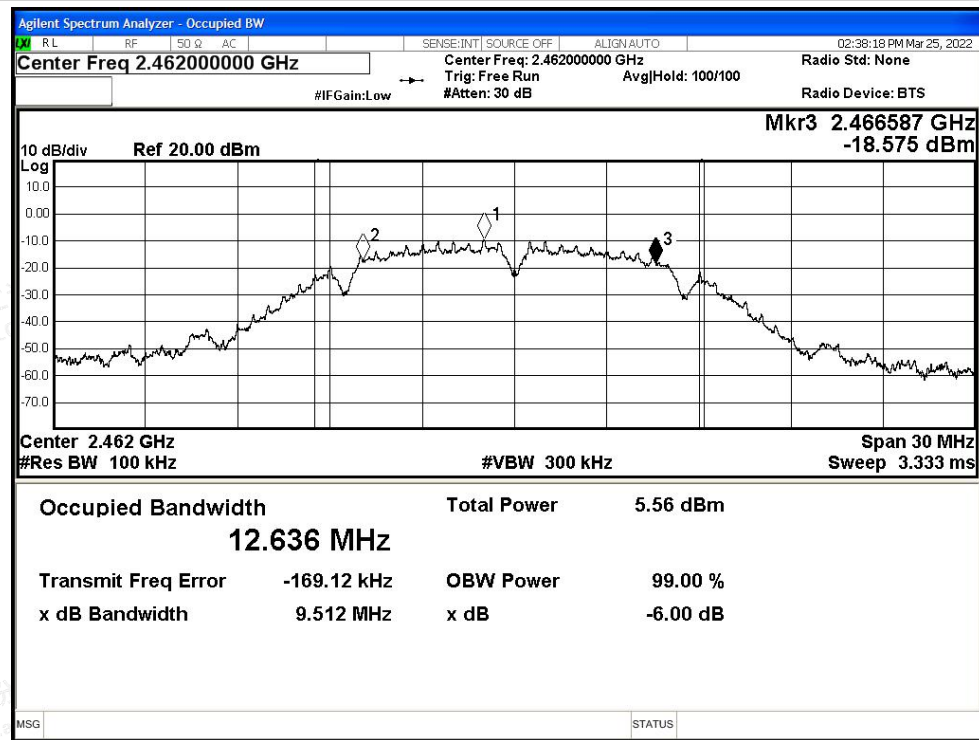
Condition	Mode	Frequency (MHz)	Antenna	6 dB Bandwidth (MHz)	Limit 6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.085	0.5	Pass
NVNT	b	2437	Ant1	8.588	0.5	Pass
NVNT	b	2462	Ant1	9.512	0.5	Pass
NVNT	g	2412	Ant1	15.404	0.5	Pass
NVNT	g	2437	Ant1	15.234	0.5	Pass
NVNT	g	2462	Ant1	14.375	0.5	Pass
NVNT	n20	2412	Ant1	15.007	0.5	Pass
NVNT	n20	2437	Ant1	14.995	0.5	Pass
NVNT	n20	2462	Ant1	15.996	0.5	Pass



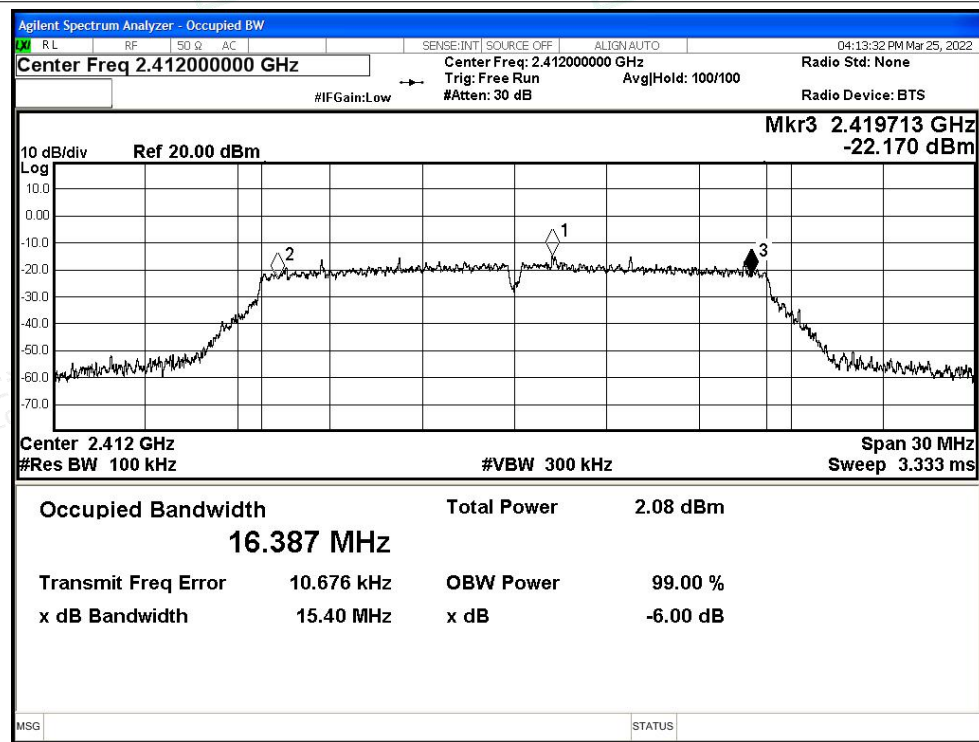




6dB Bandwidth NVNT b 2462MHz Ant1

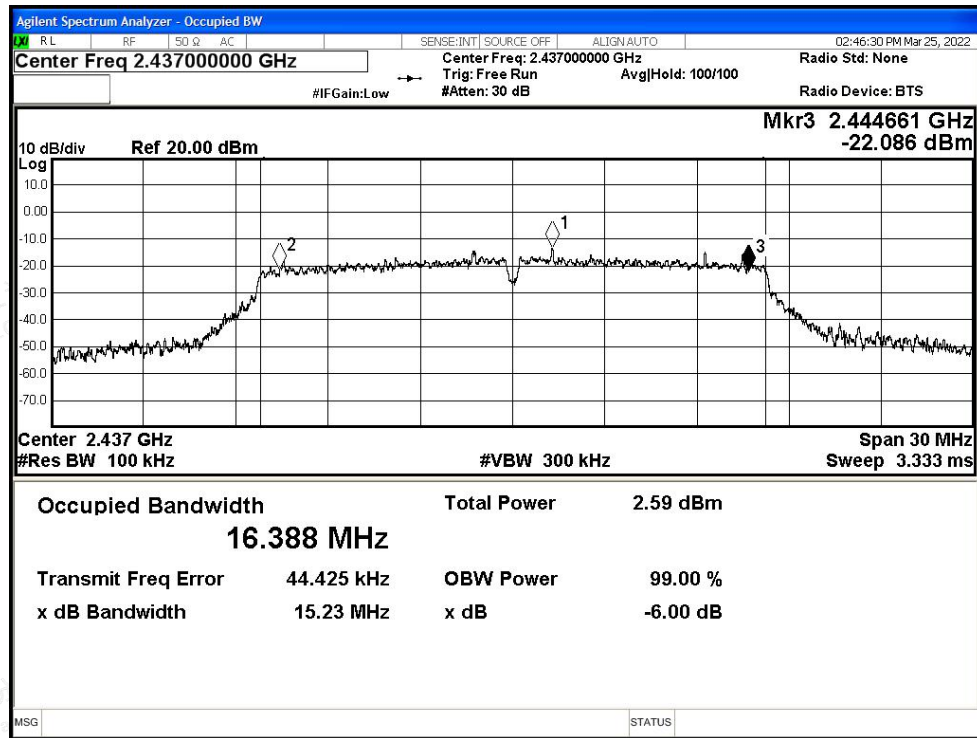


6dB Bandwidth NVNT g 2412MHz Ant1

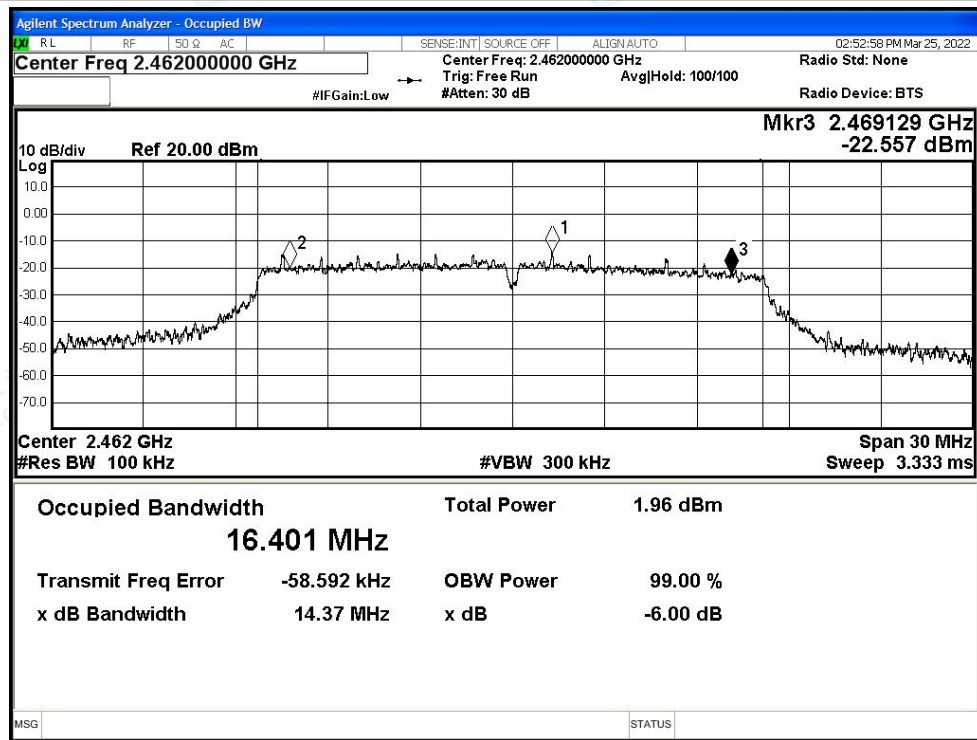


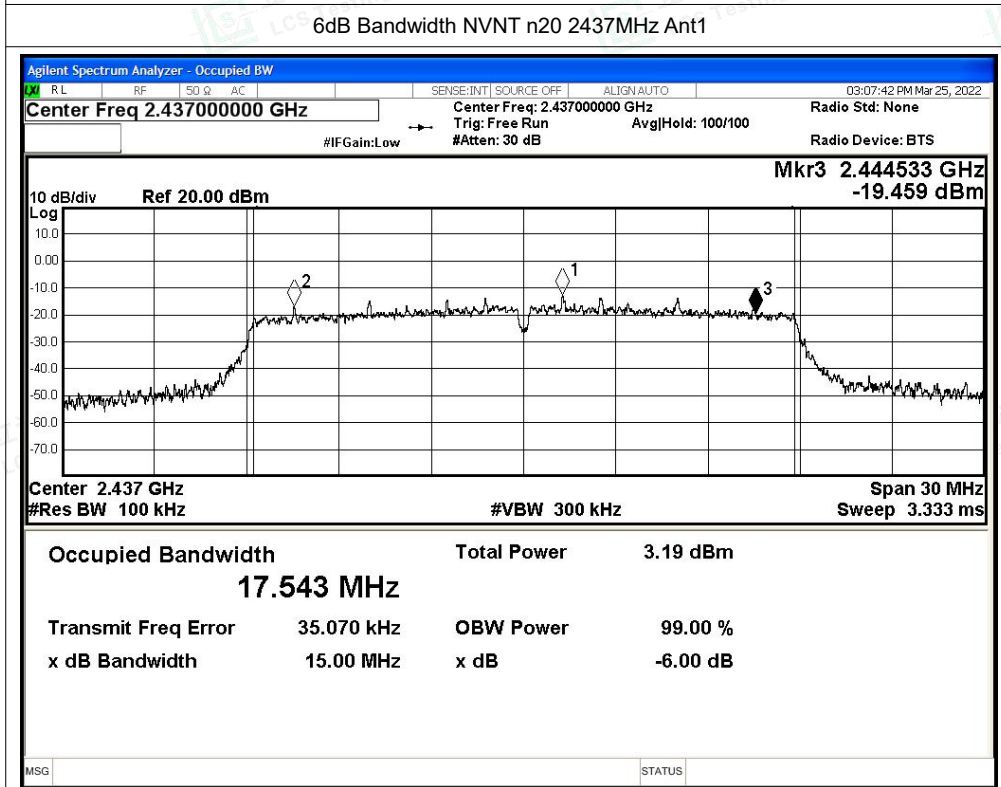
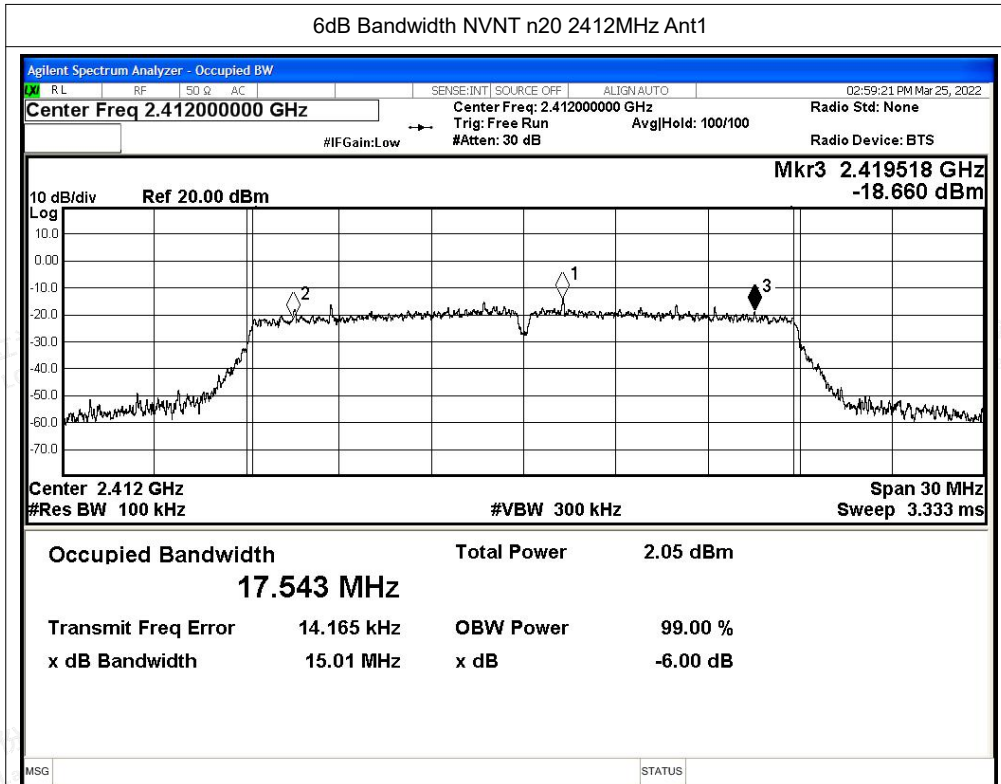


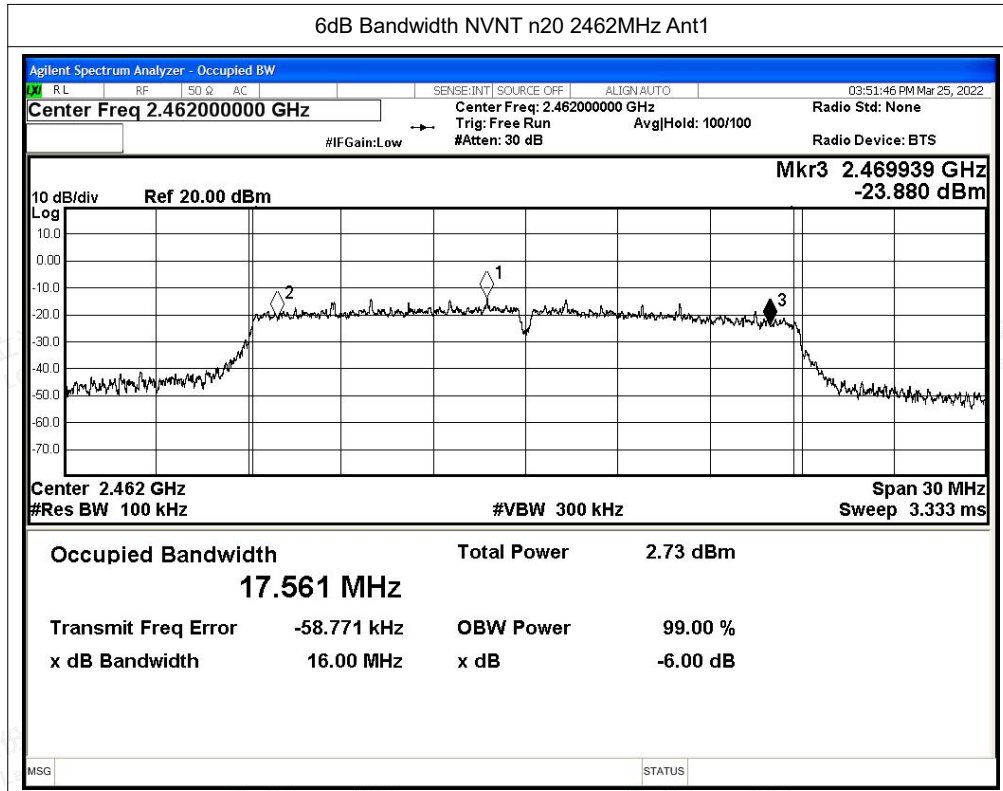
6dB Bandwidth NVNT g 2437MHz Ant1

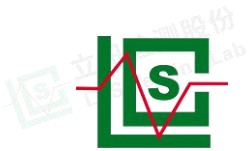


6dB Bandwidth NVNT g 2462MHz Ant1





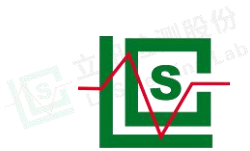




B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	0.91	0	0.91	30	Pass
NVNT	b	2437	Ant1	0.76	0	0.76	30	Pass
NVNT	b	2462	Ant1	0.58	0	0.58	30	Pass
NVNT	g	2412	Ant1	0.82	0	0.82	30	Pass
NVNT	g	2437	Ant1	1.21	0	1.21	30	Pass
NVNT	g	2462	Ant1	0.44	0	0.44	30	Pass
NVNT	n20	2412	Ant1	0.73	0	0.73	30	Pass
NVNT	n20	2437	Ant1	1.78	0	1.78	30	Pass
NVNT	n20	2462	Ant1	1.33	0	1.33	30	Pass





Test Graphs

B.3 Power Spectral Density

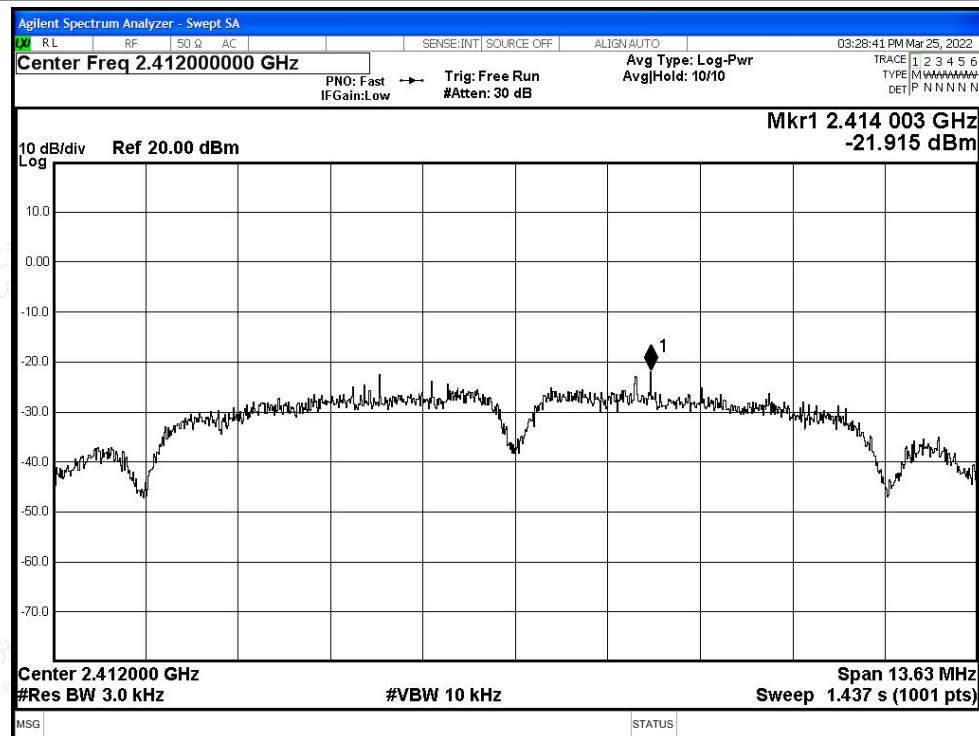
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-21.92	0	-21.92	8	Pass
NVNT	b	2437	Ant1	-20.15	0	-20.15	8	Pass
NVNT	b	2462	Ant1	-24.01	0	-24.01	8	Pass
NVNT	g	2412	Ant1	-27.27	0	-27.27	8	Pass
NVNT	g	2437	Ant1	-26.31	0	-26.31	8	Pass
NVNT	g	2462	Ant1	-27.39	0	-27.39	8	Pass
NVNT	n20	2412	Ant1	-27.01	0	-27.01	8	Pass
NVNT	n20	2437	Ant1	-24.49	0	-24.49	8	Pass
NVNT	n20	2462	Ant1	-27.04	0	-27.04	8	Pass



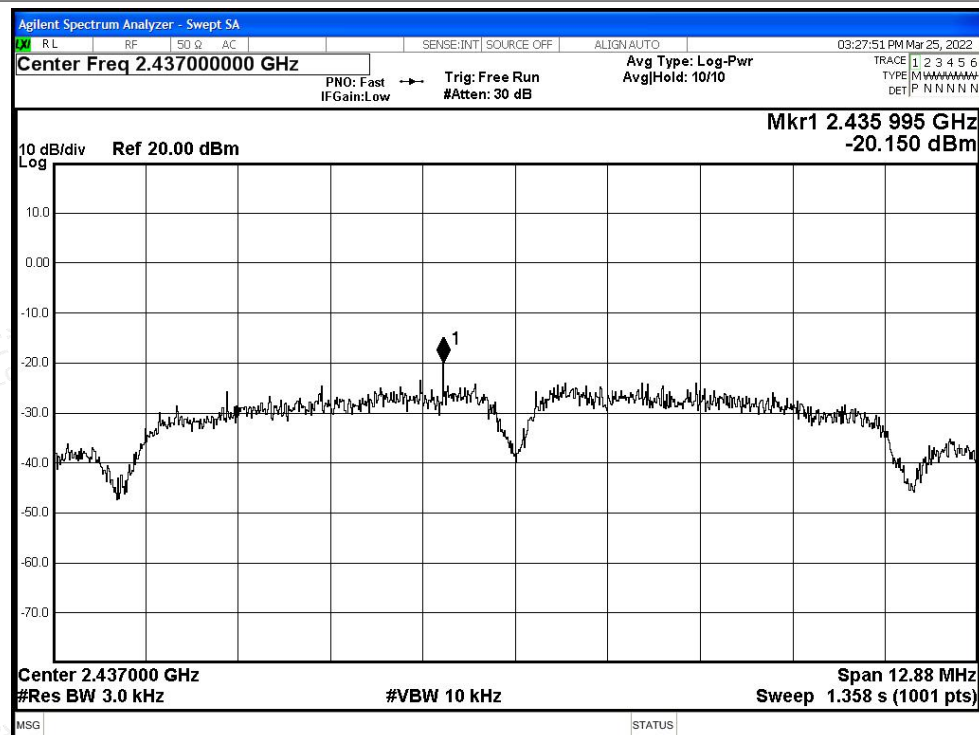


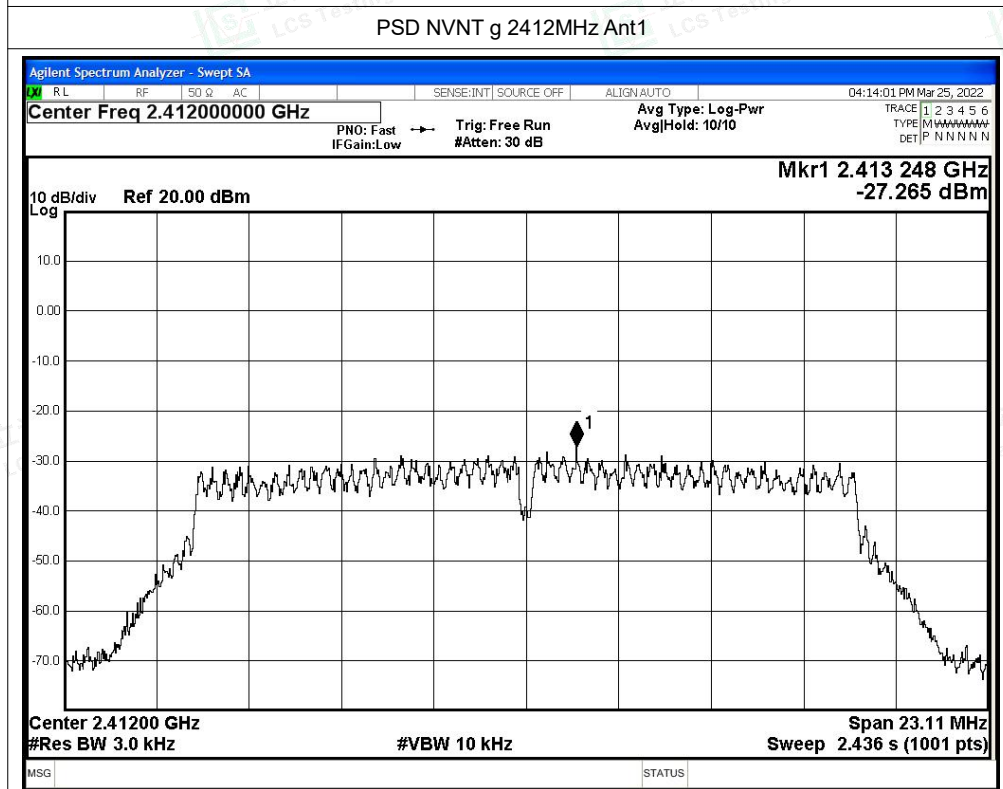
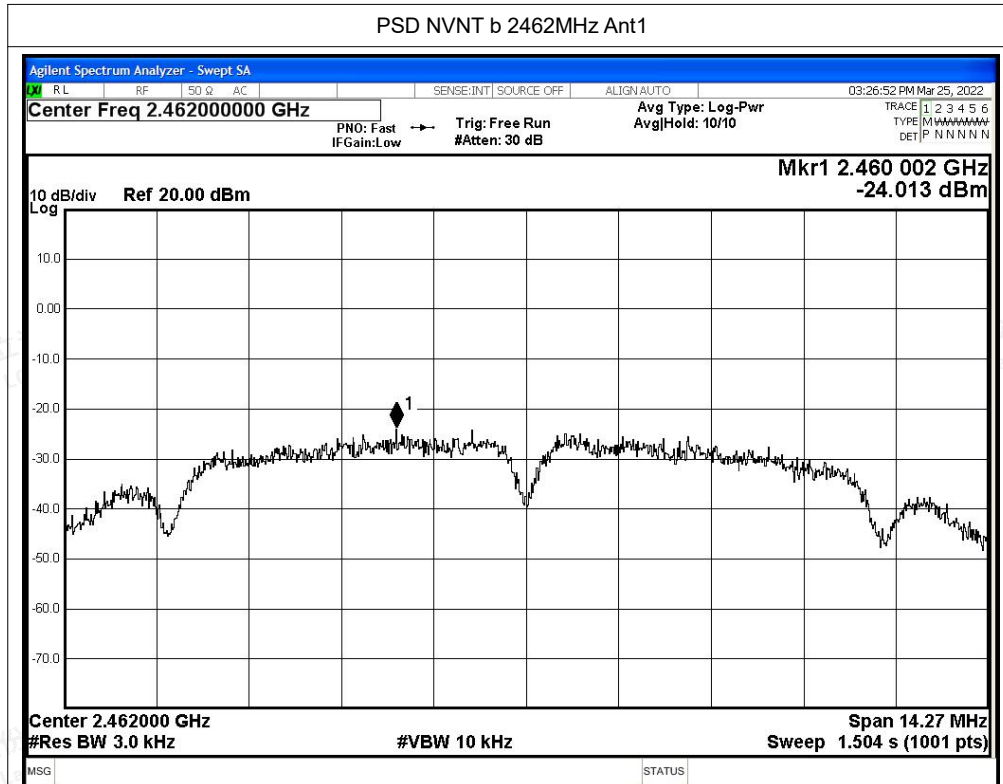
Test Graphs

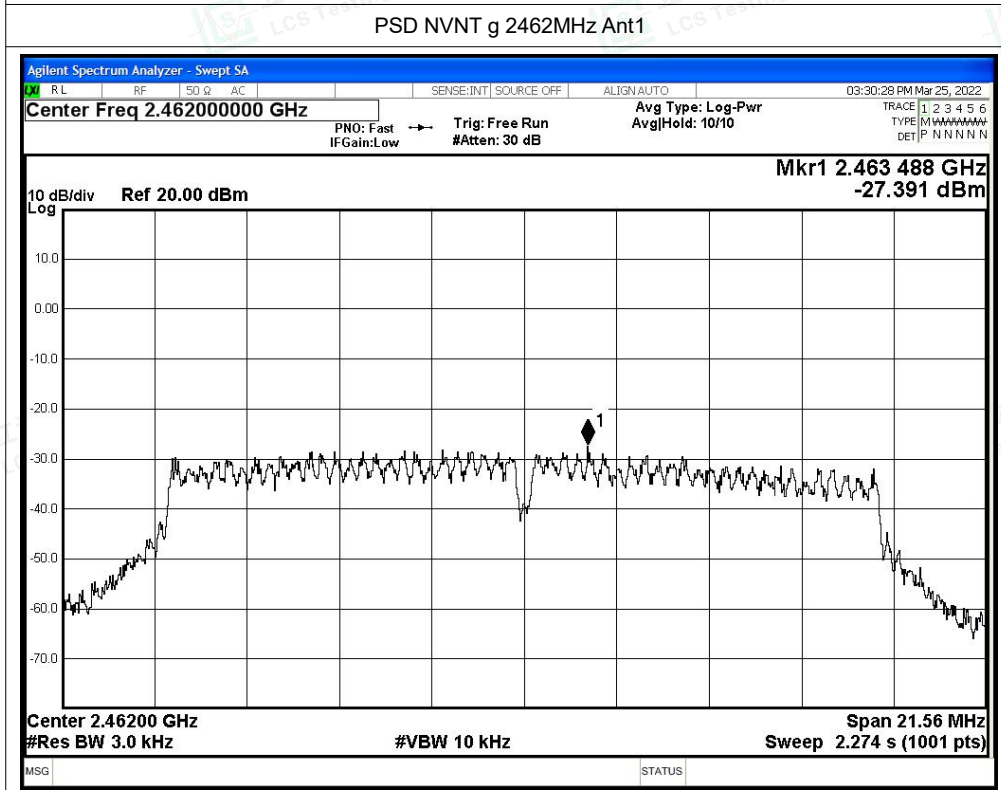
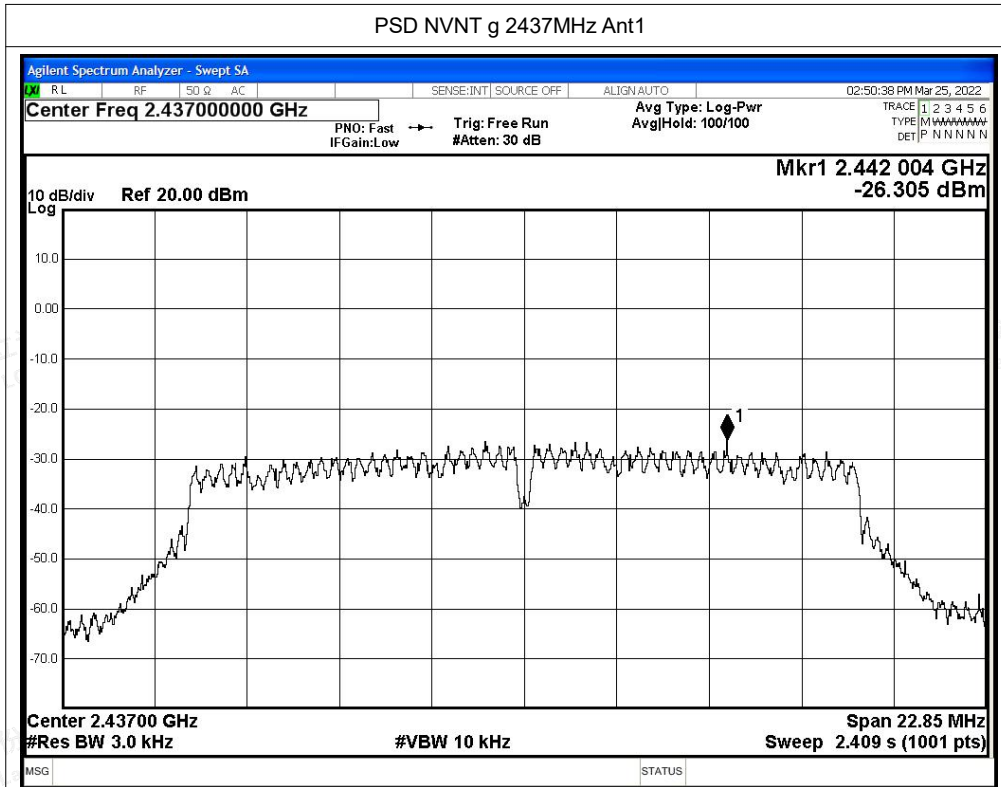
PSD NVNT b 2412MHz Ant1

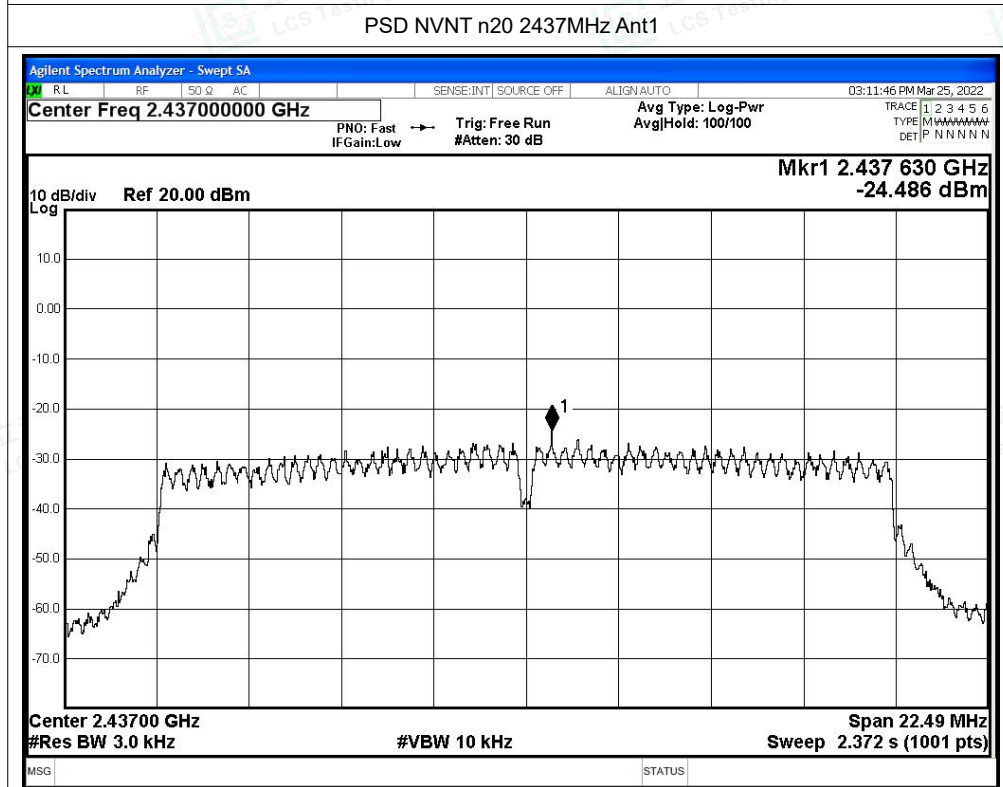
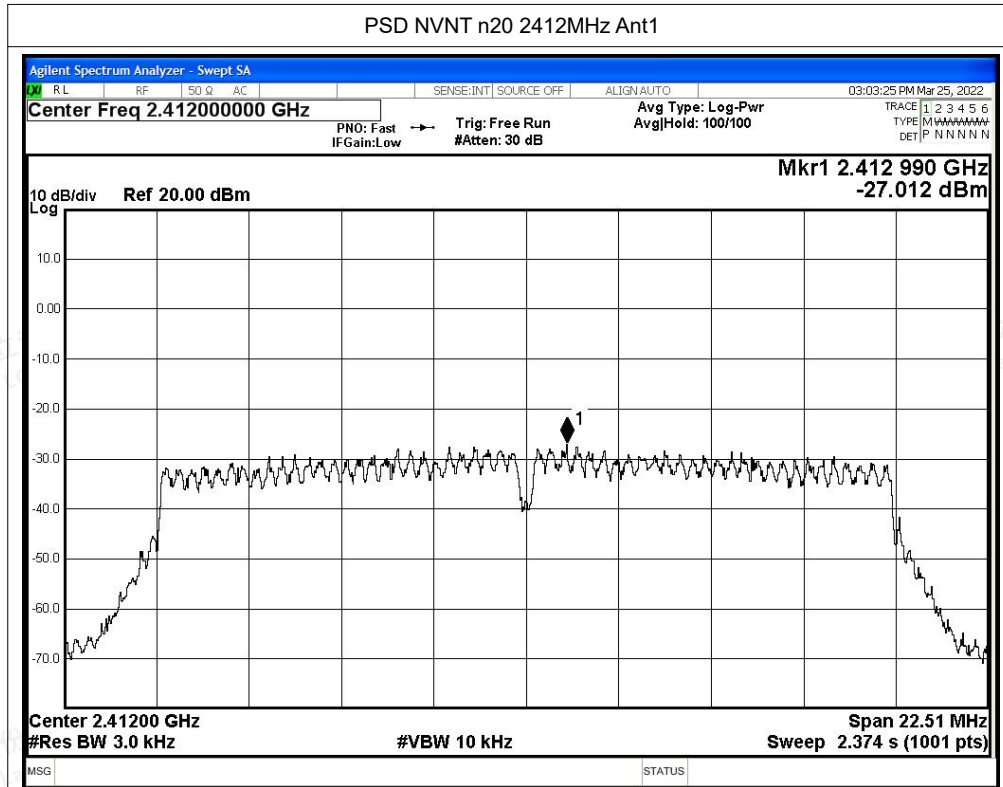


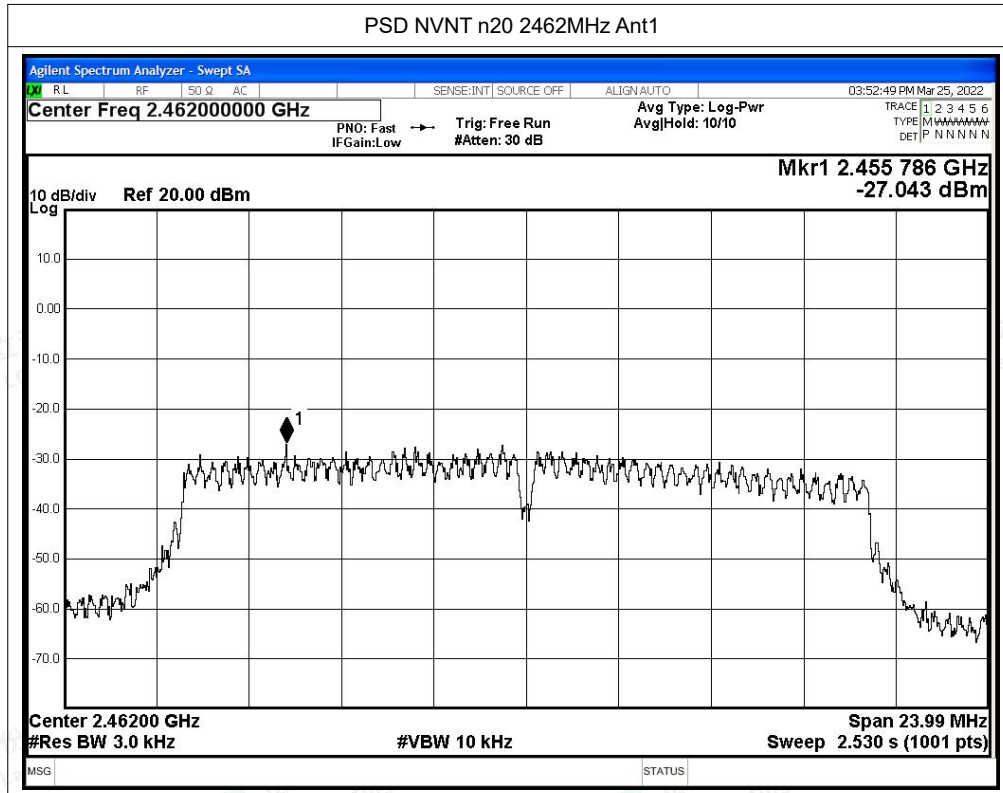
PSD NVNT b 2437MHz Ant1

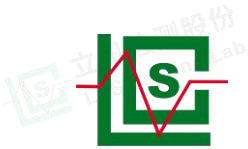












B.4 Band Edge

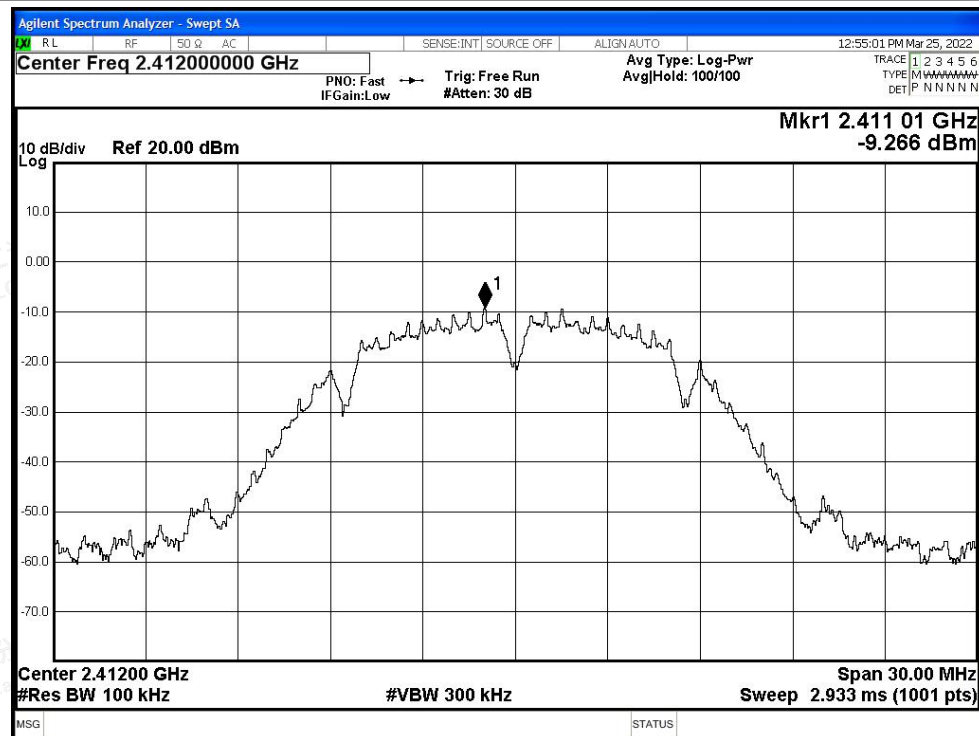
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-45.16	-20	Pass
NVNT	b	2462	Ant1	-49.09	-20	Pass
NVNT	g	2412	Ant1	-37.76	-20	Pass
NVNT	g	2462	Ant1	-42.32	-20	Pass
NVNT	n20	2412	Ant1	-35.83	-20	Pass
NVNT	n20	2462	Ant1	-41.38	-20	Pass



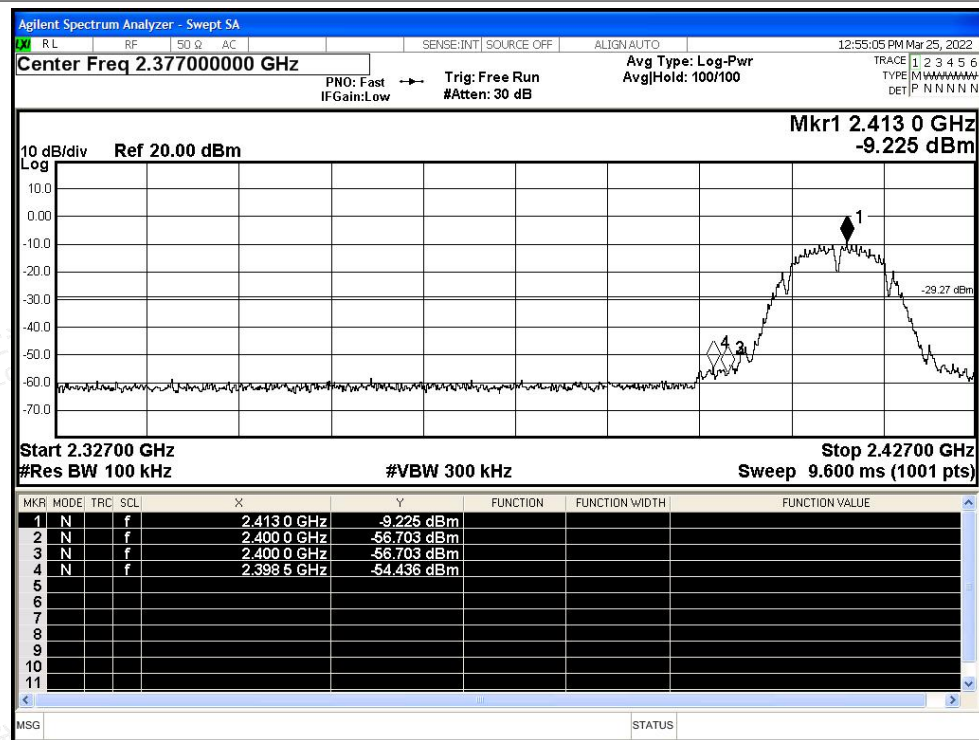


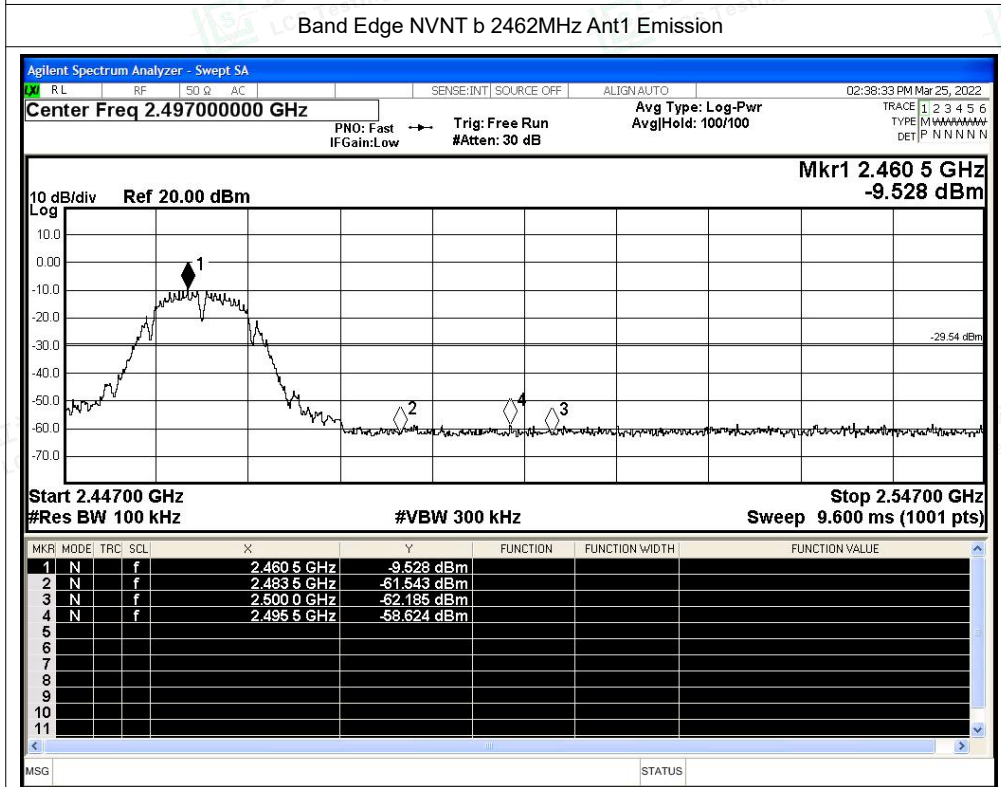
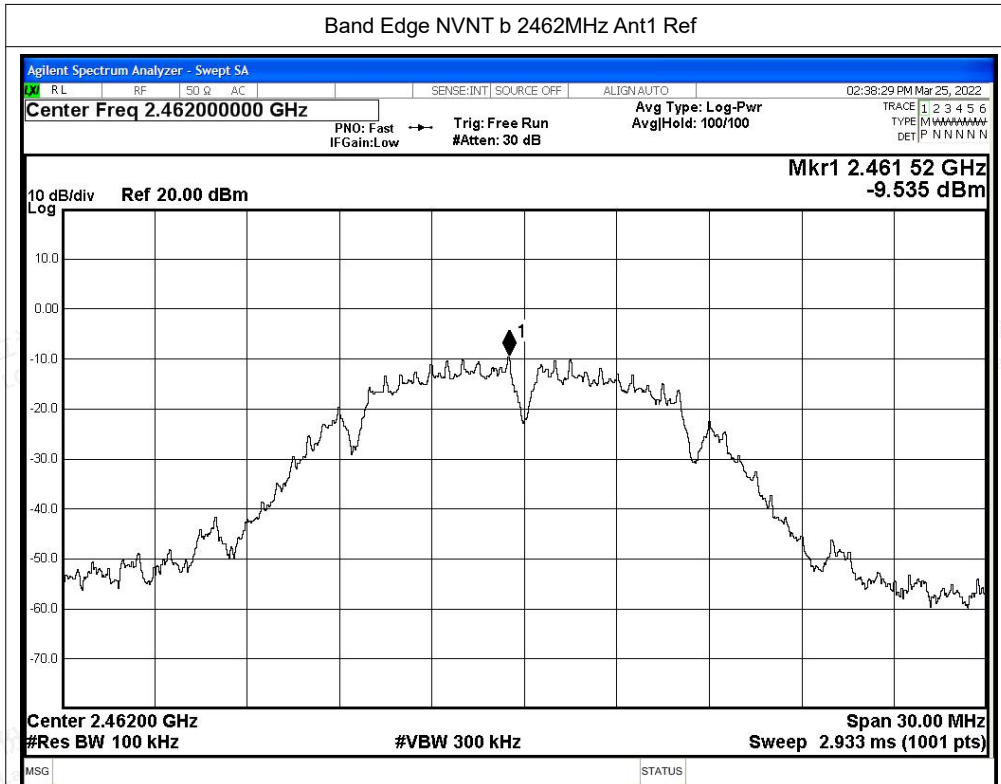
Test Graphs

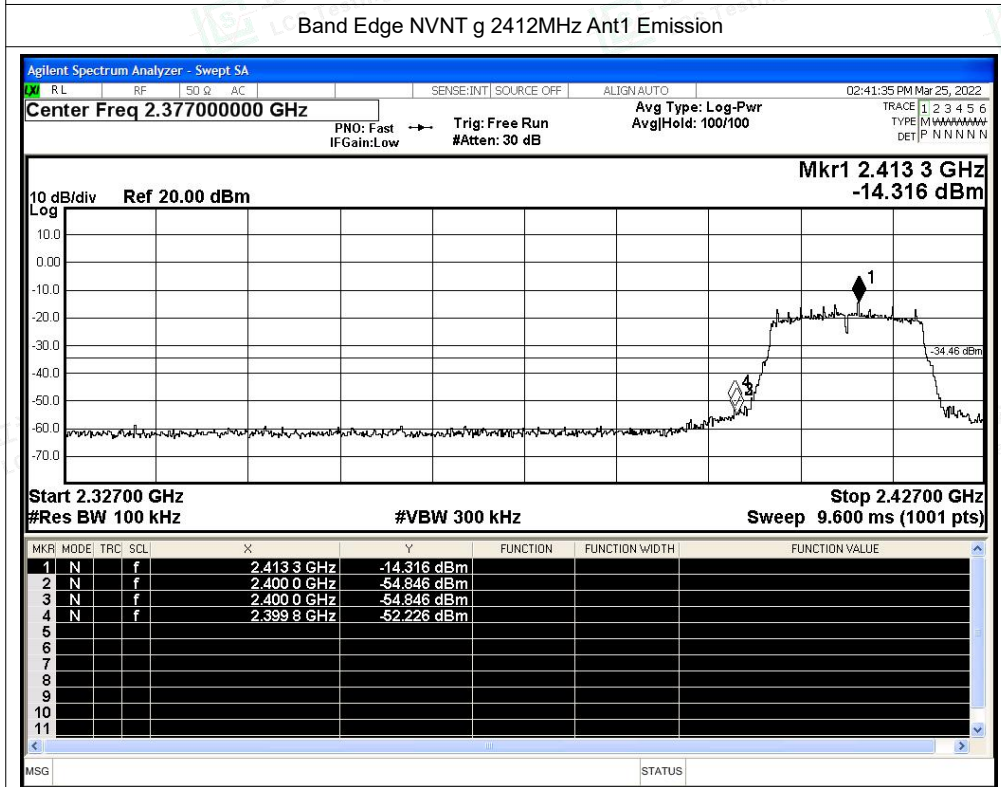
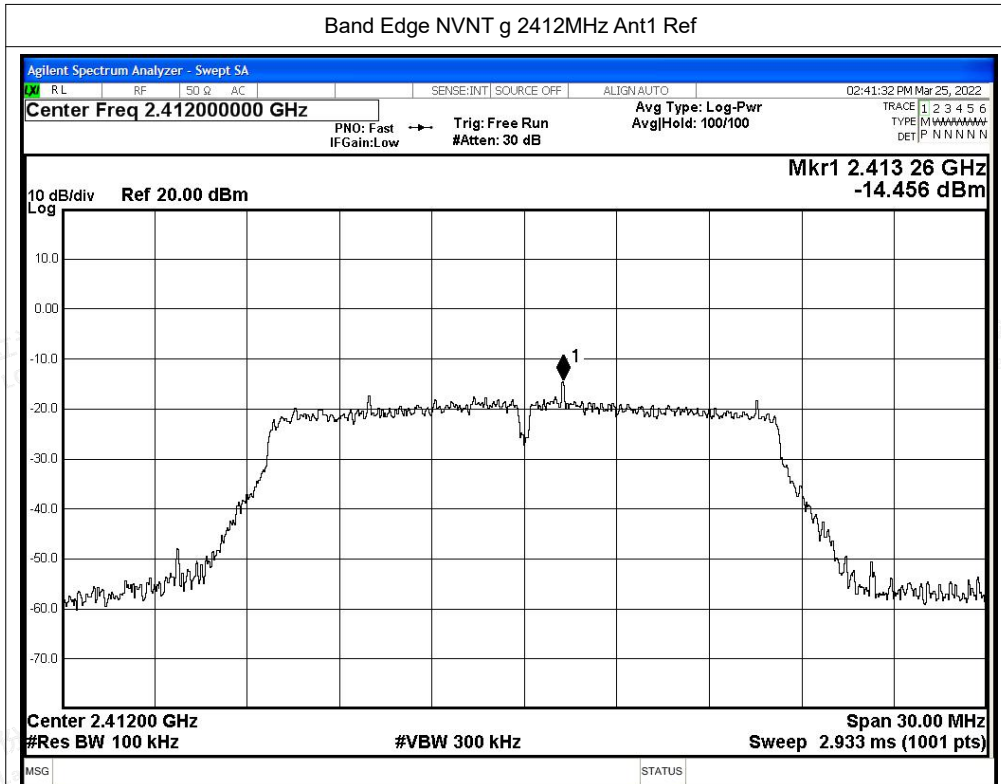
Band Edge NVNT b 2412MHz Ant1 Ref

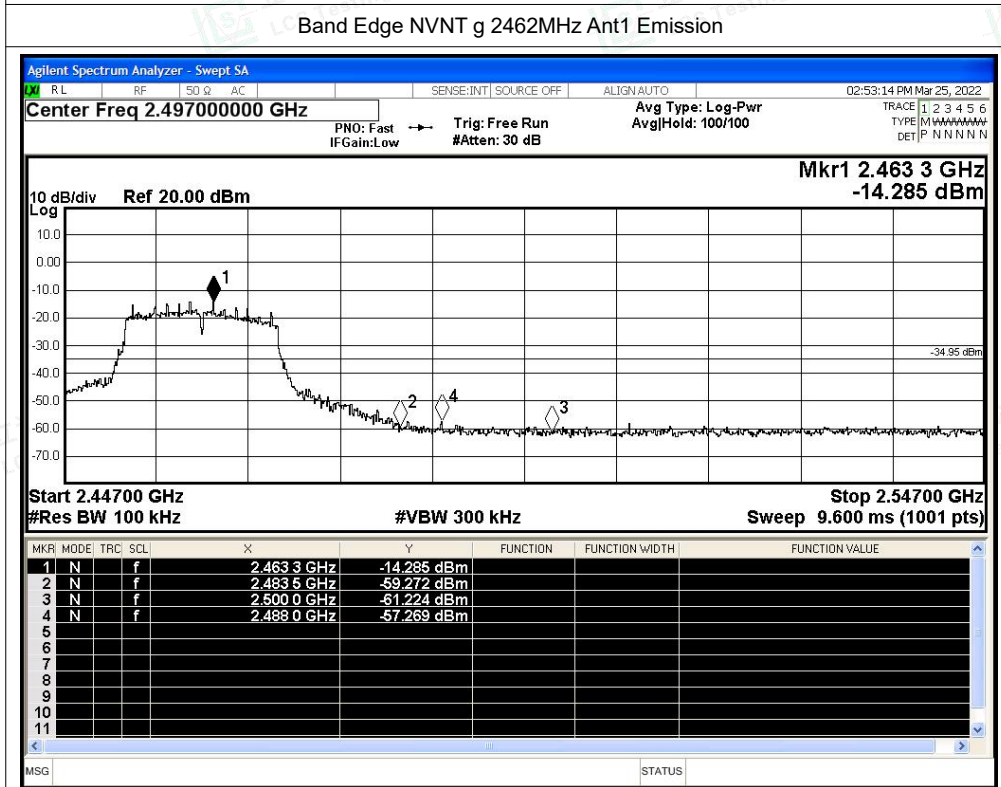
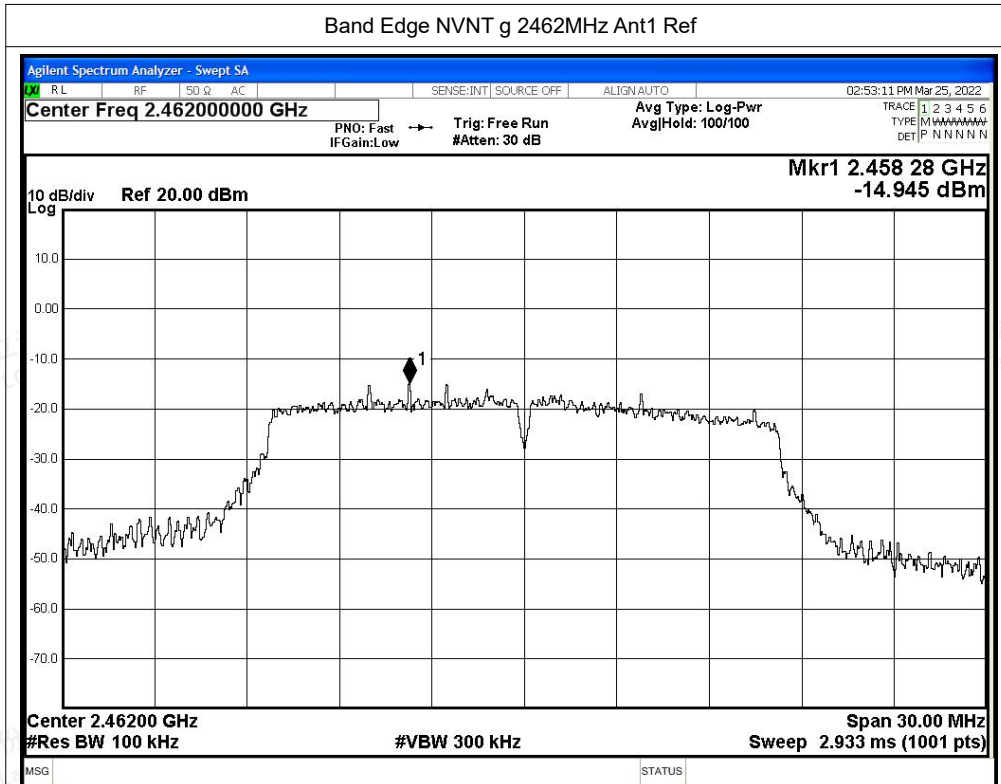


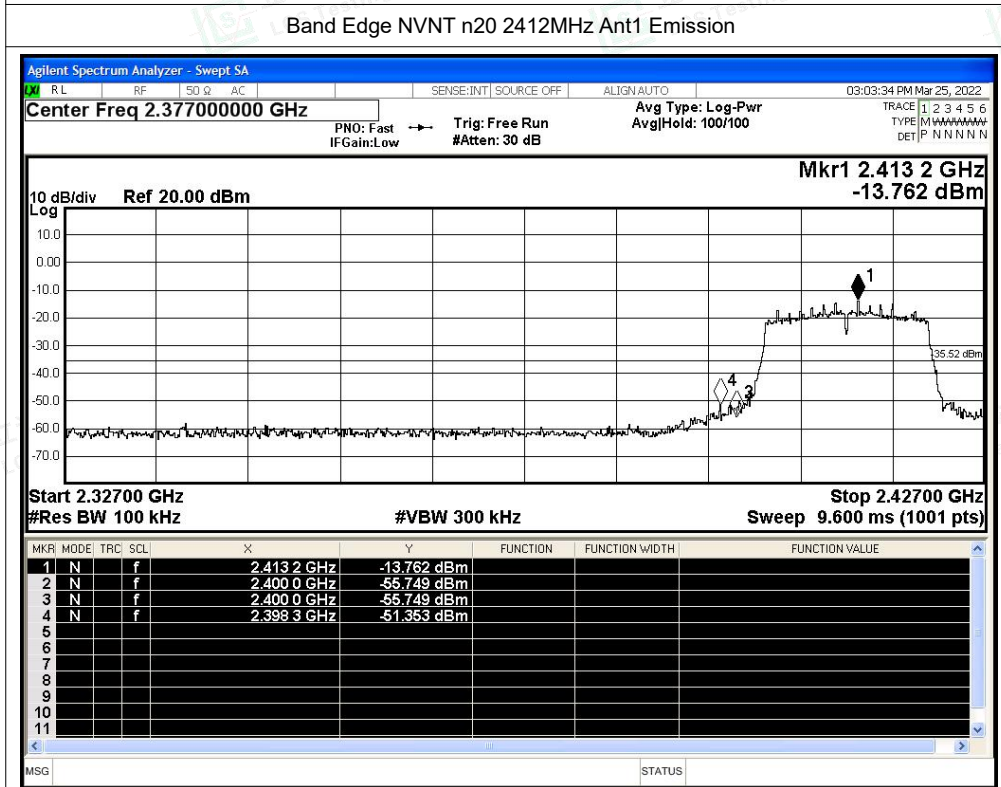
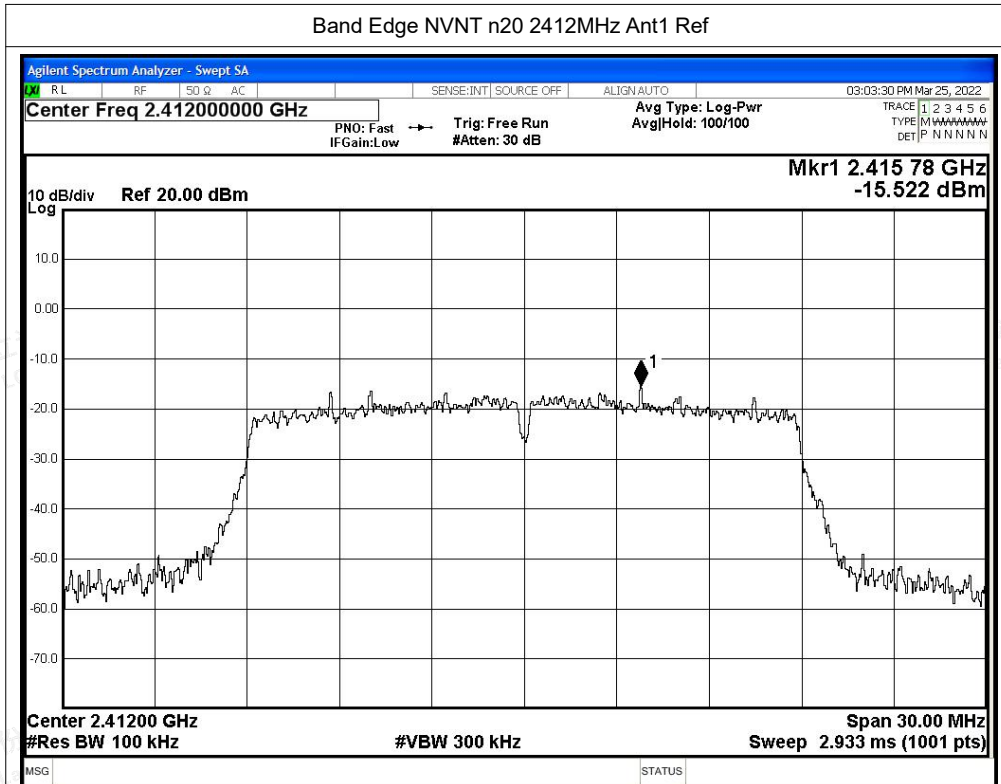
Band Edge NVNT b 2412MHz Ant1 Emission

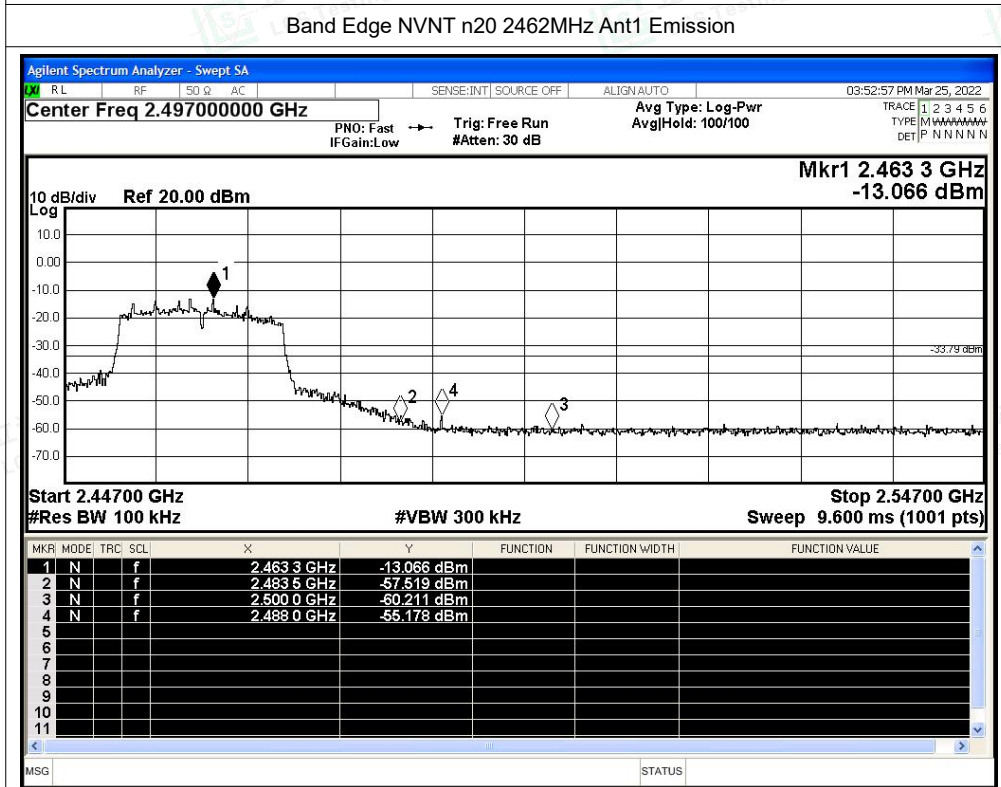
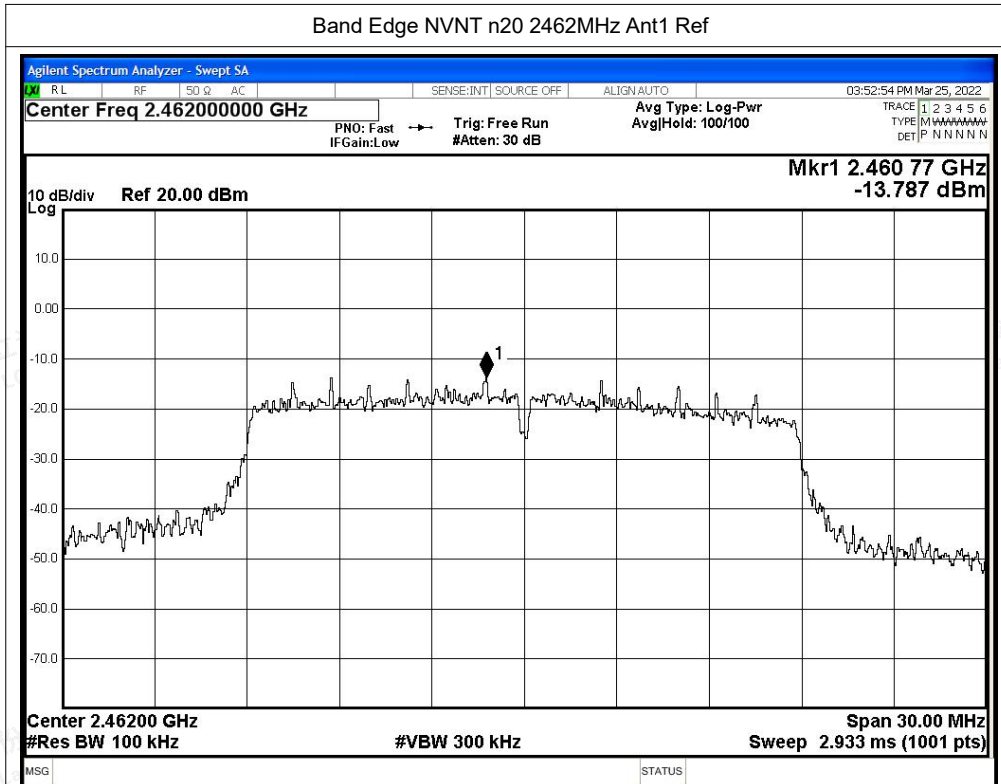


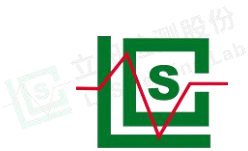












B.5 Conducted RF Spurious Emission

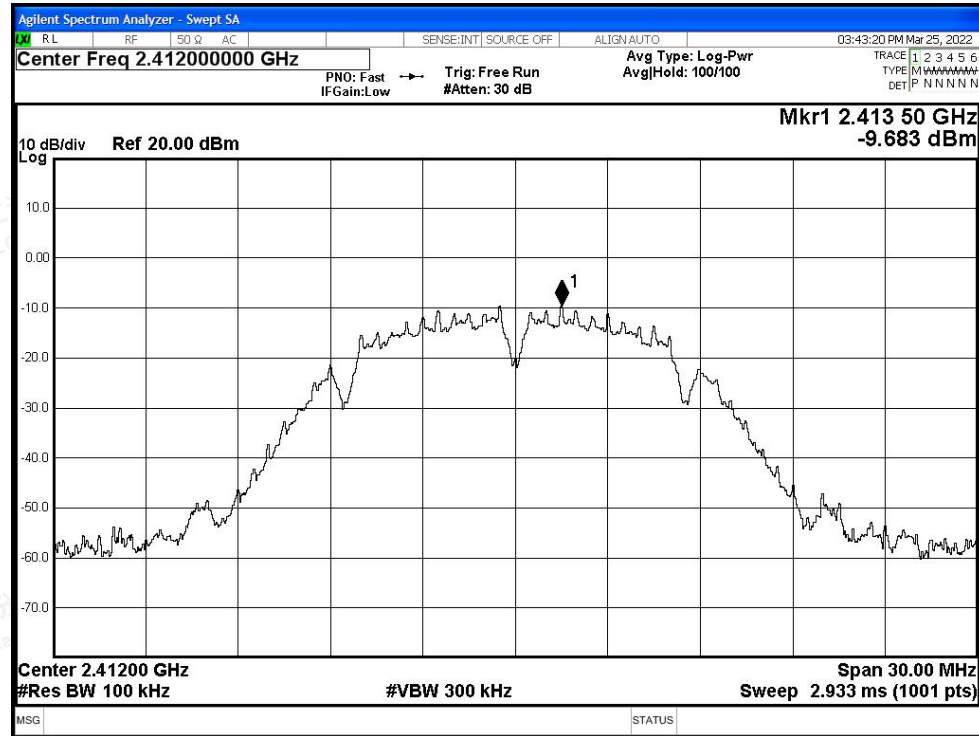
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-37.59	-20	Pass
NVNT	b	2437	Ant1	-37.76	-20	Pass
NVNT	b	2462	Ant1	-36.41	-20	Pass
NVNT	g	2412	Ant1	-32.16	-20	Pass
NVNT	g	2437	Ant1	-34.13	-20	Pass
NVNT	g	2462	Ant1	-33.42	-20	Pass
NVNT	n20	2412	Ant1	-31.5	-20	Pass
NVNT	n20	2437	Ant1	-34.09	-20	Pass
NVNT	n20	2462	Ant1	-33.66	-20	Pass



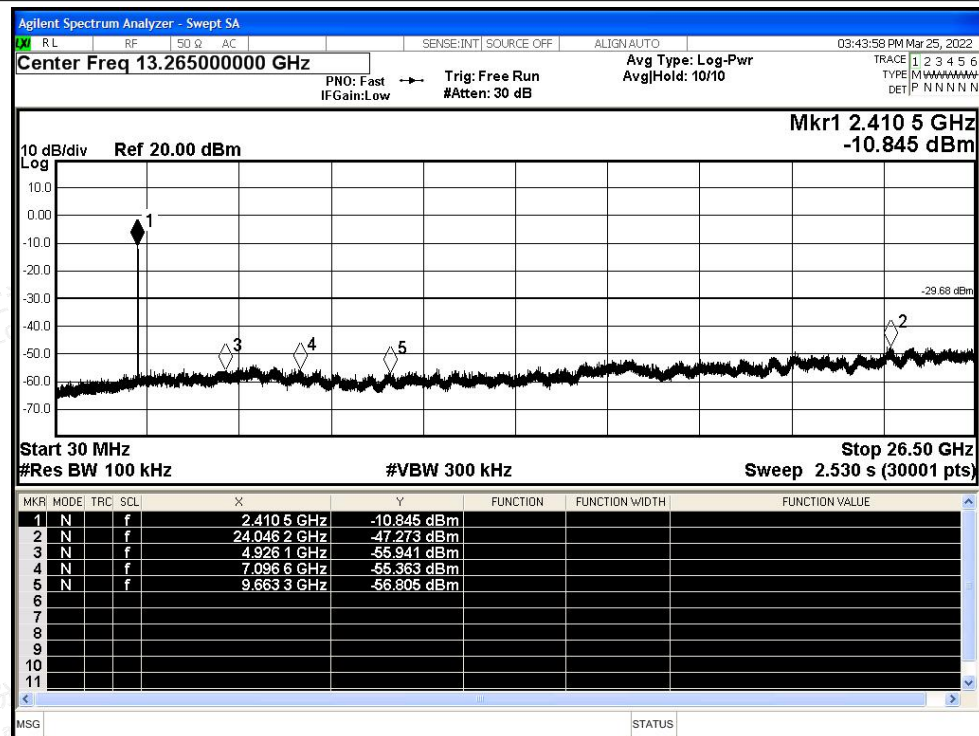


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref

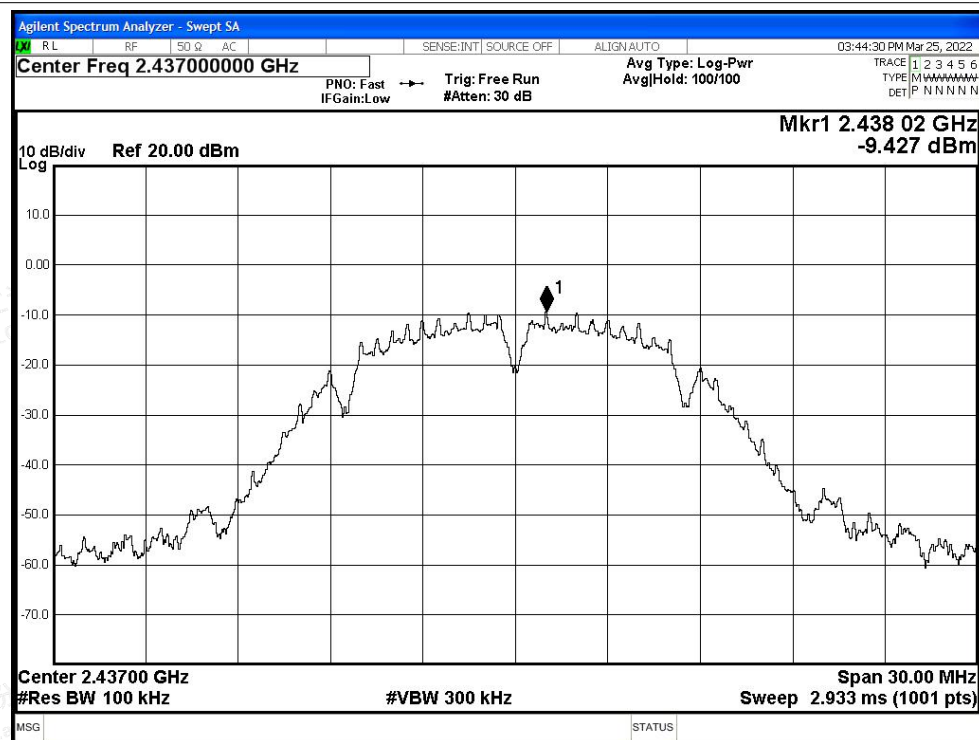


Tx. Spurious NVNT b 2412MHz Ant1 Emission

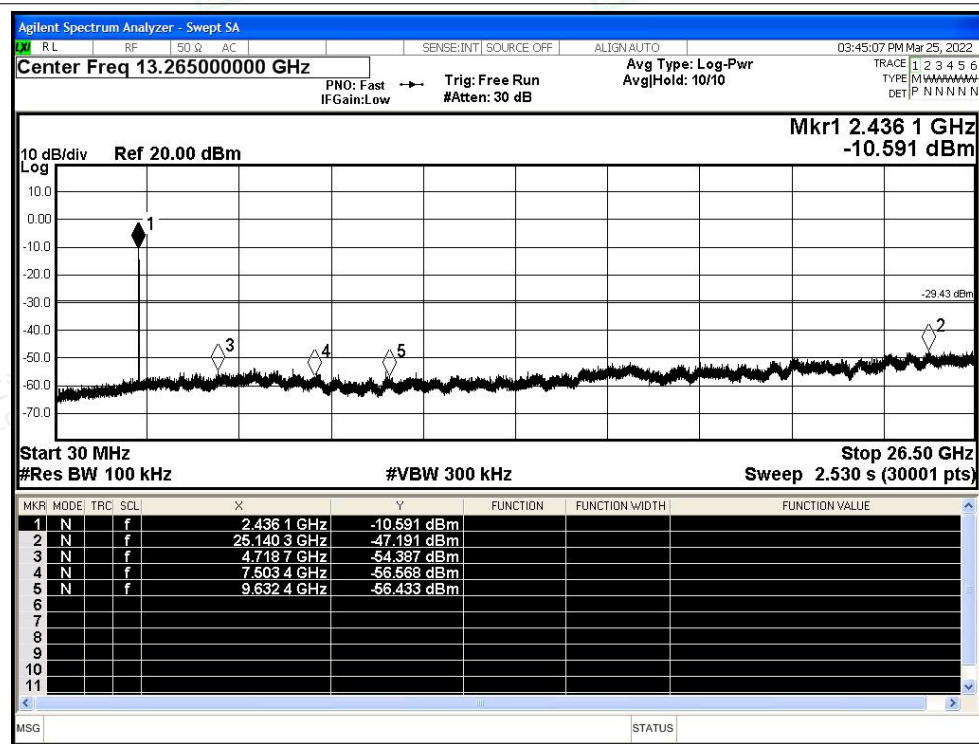




Tx. Spurious NVNT b 2437MHz Ant1 Ref

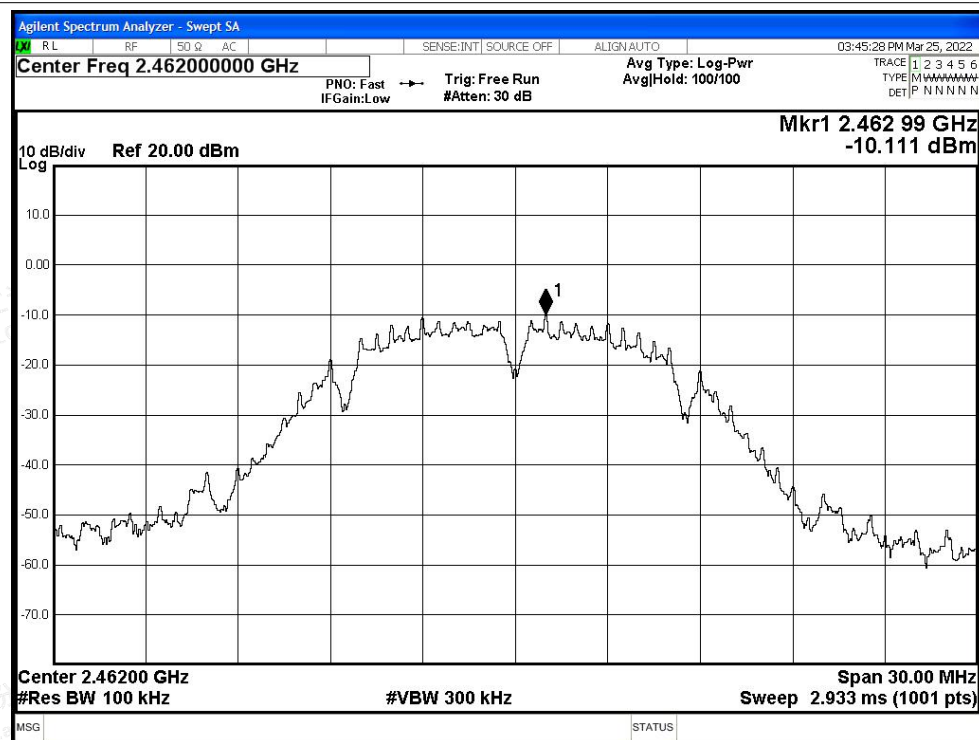


Tx. Spurious NVNT b 2437MHz Ant1 Emission





Tx. Spurious NVNT b 2462MHz Ant1 Ref



Tx. Spurious NVNT b 2462MHz Ant1 Emission

