Appendix B

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Socket

Test Model: L-WOSU100

Environmental Conditions

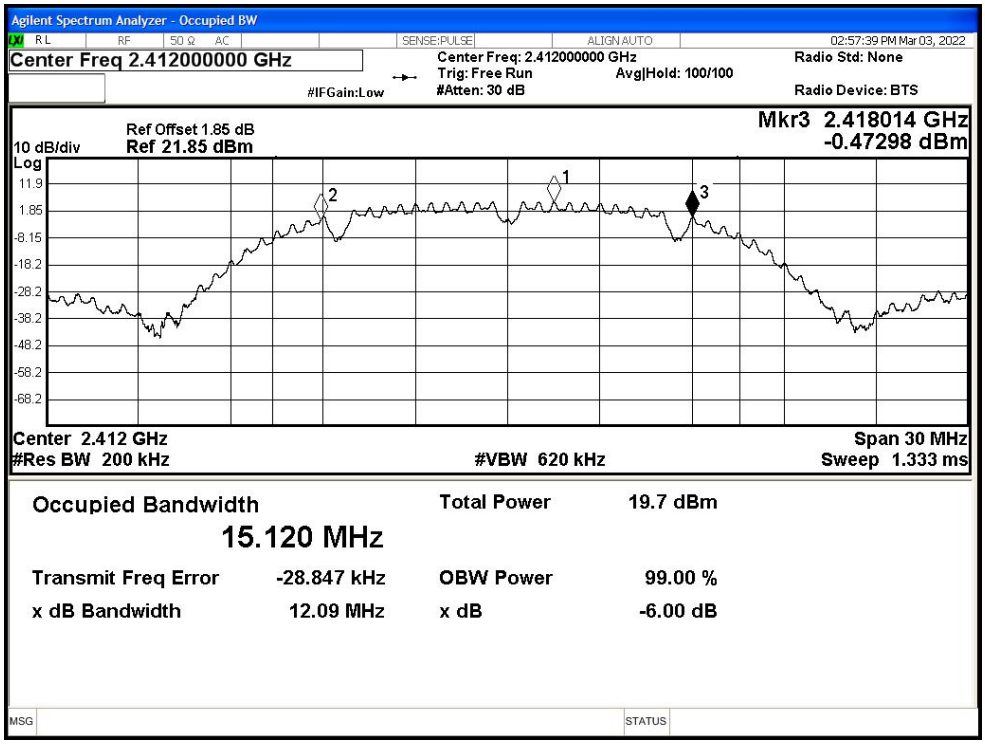
Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan

B.1 6dB Bandwidth

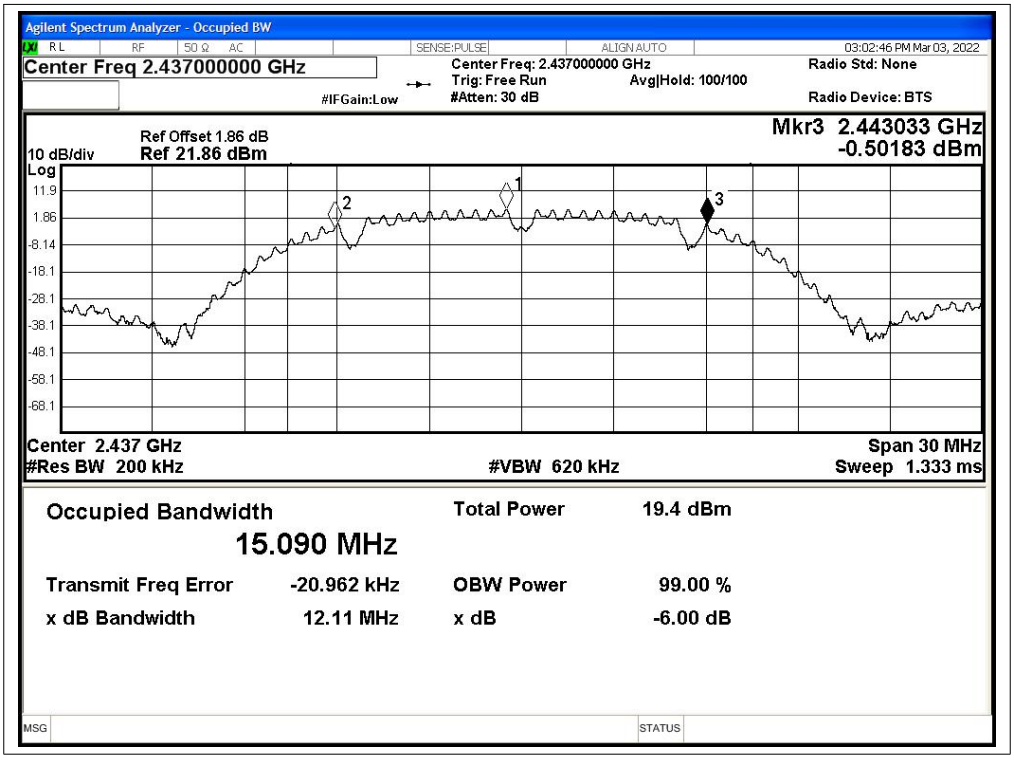
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	12.085	0.5	Pass
NVNT	b	2437	Ant1	12.108	0.5	Pass
NVNT	b	2462	Ant1	12.094	0.5	Pass
NVNT	g	2412	Ant1	15.967	0.5	Pass
NVNT	g	2437	Ant1	17.076	0.5	Pass
NVNT	g	2462	Ant1	16.546	0.5	Pass
NVNT	n20	2412	Ant1	15.482	0.5	Pass
NVNT	n20	2437	Ant1	16.865	0.5	Pass
NVNT	n20	2462	Ant1	16.632	0.5	Pass

Test Graphs

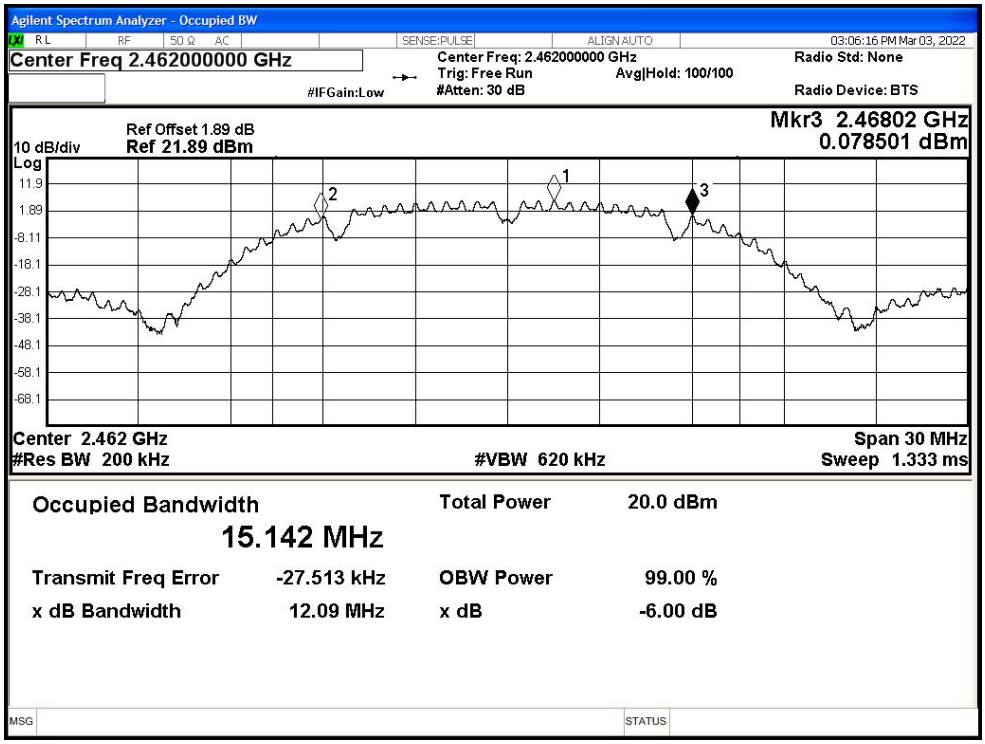
-6dB Bandwidth NVNT b 2412MHz Ant1



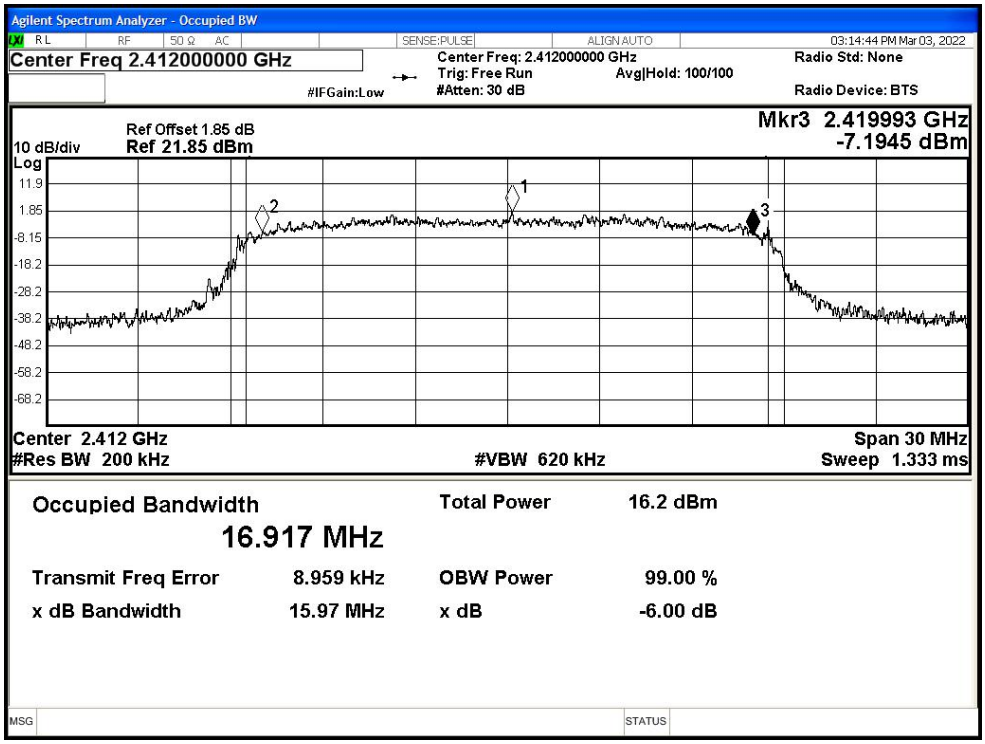
-6dB Bandwidth NVNT b 2437MHz Ant1


Agilent Spectrum Analyzer - Occupied BW
Center Freq 2.437000000 GHz
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold: 100/100
Radio Std: None
Radio Device: BTS
03:02:46 PM Mar 03, 2022
#IFGain:Low
Ref Offset 1.86 dB
10 dB/div
Ref 21.86 dBm
Mkr3 2.443033 GHz
-0.50183 dBm
Center 2.437 GHz
#Res BW 200 kHz
#VBW 620 kHz
Span 30 MHz
Sweep 1.333 ms
Occupied Bandwidth
15.090 MHz
Total Power 19.4 dBm
Transmit Freq Error -20.962 kHz
OBW Power 99.00 %
x dB Bandwidth 12.11 MHz
x dB -6.00 dB

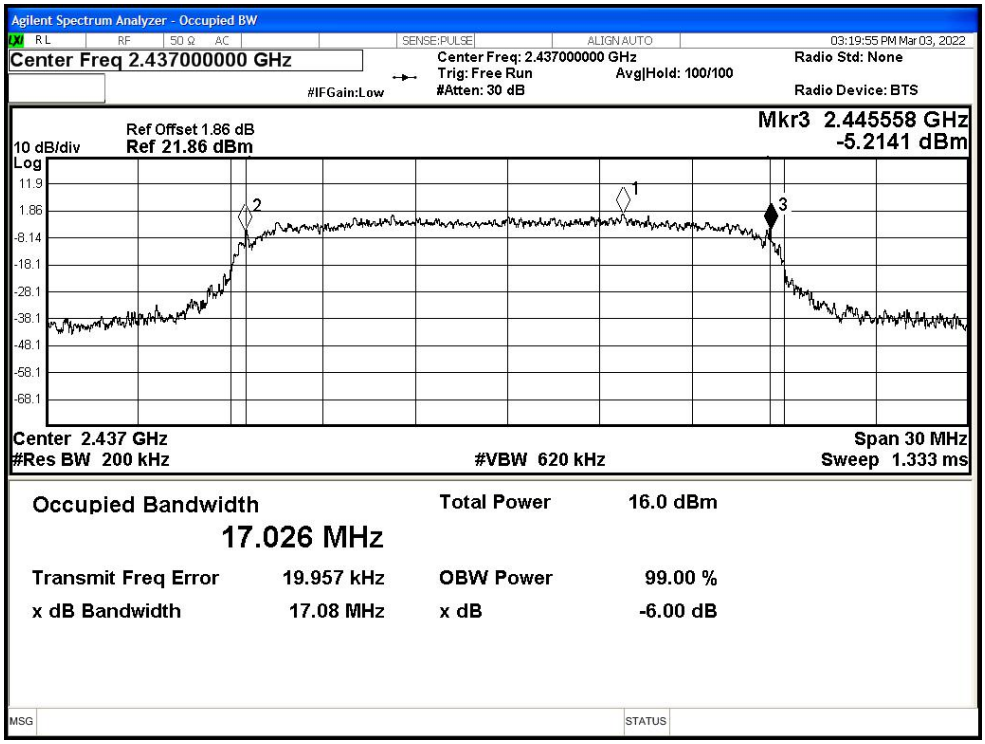
-6dB Bandwidth NVNT b 2462MHz Ant1



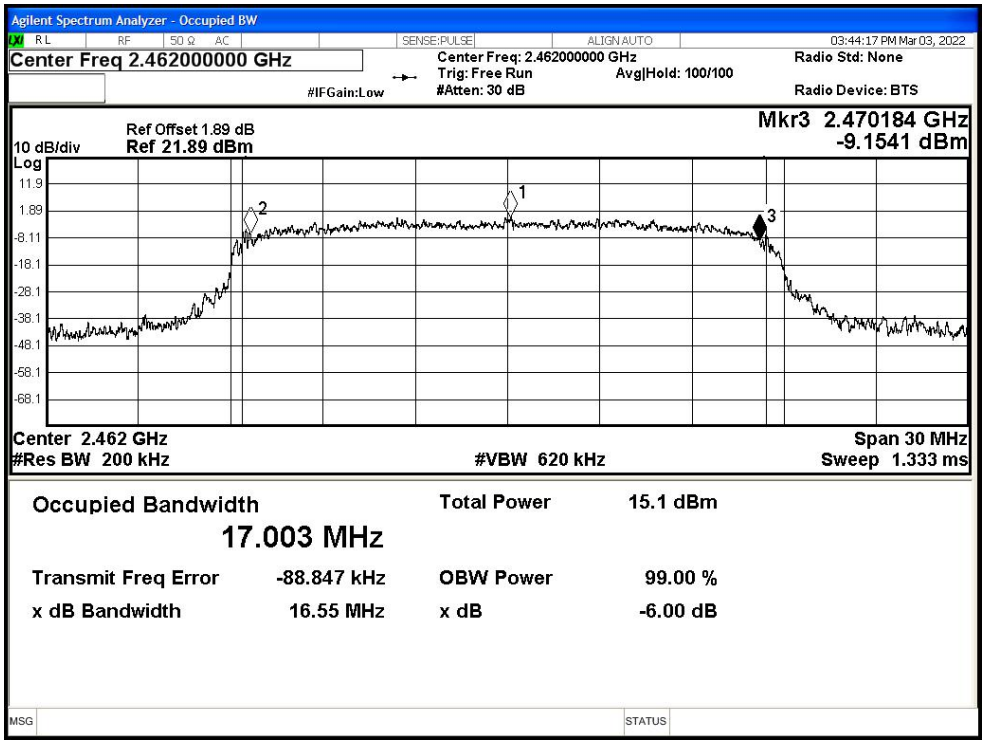
-6dB Bandwidth NVNT g 2412MHz Ant1



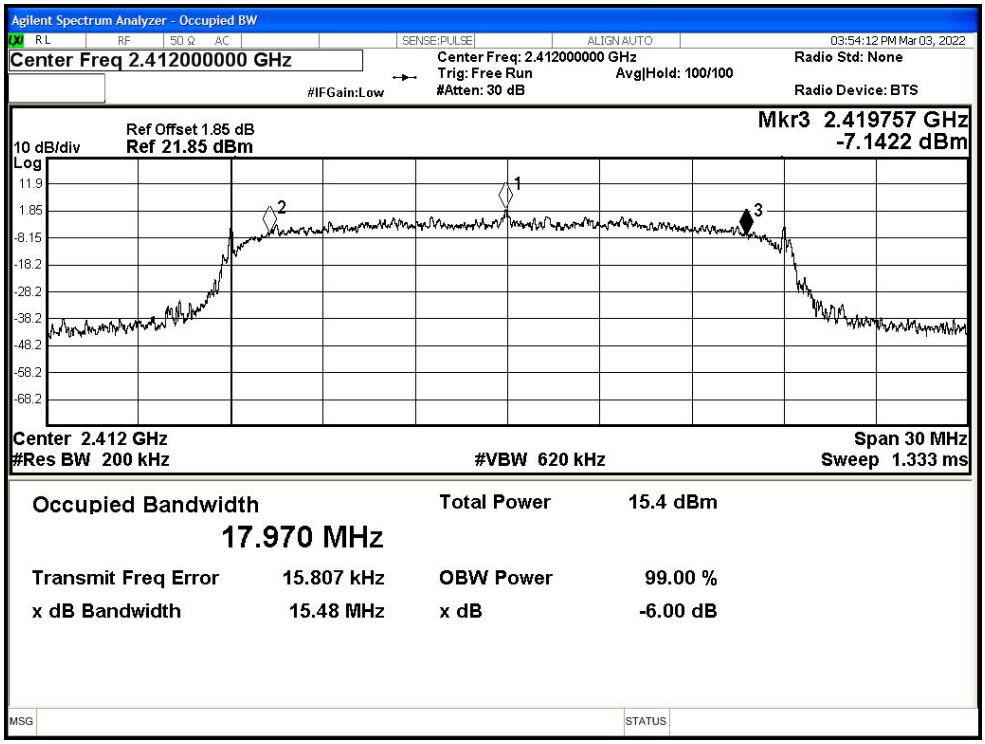
-6dB Bandwidth NVNT g 2437MHz Ant1



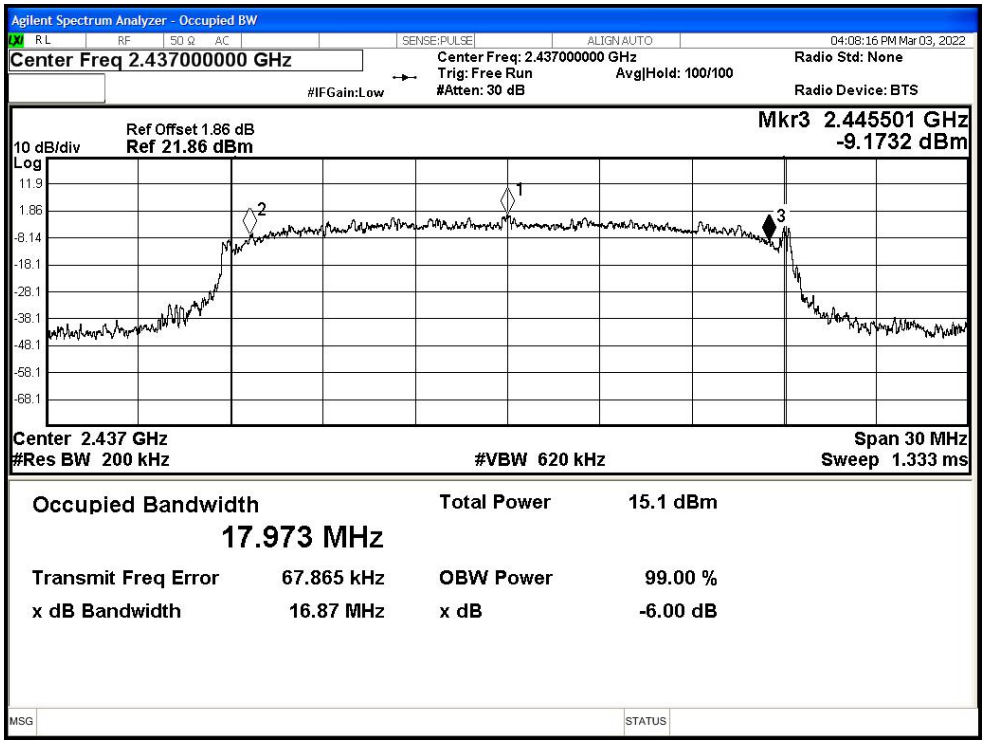
-6dB Bandwidth NVNT g 2462MHz Ant1



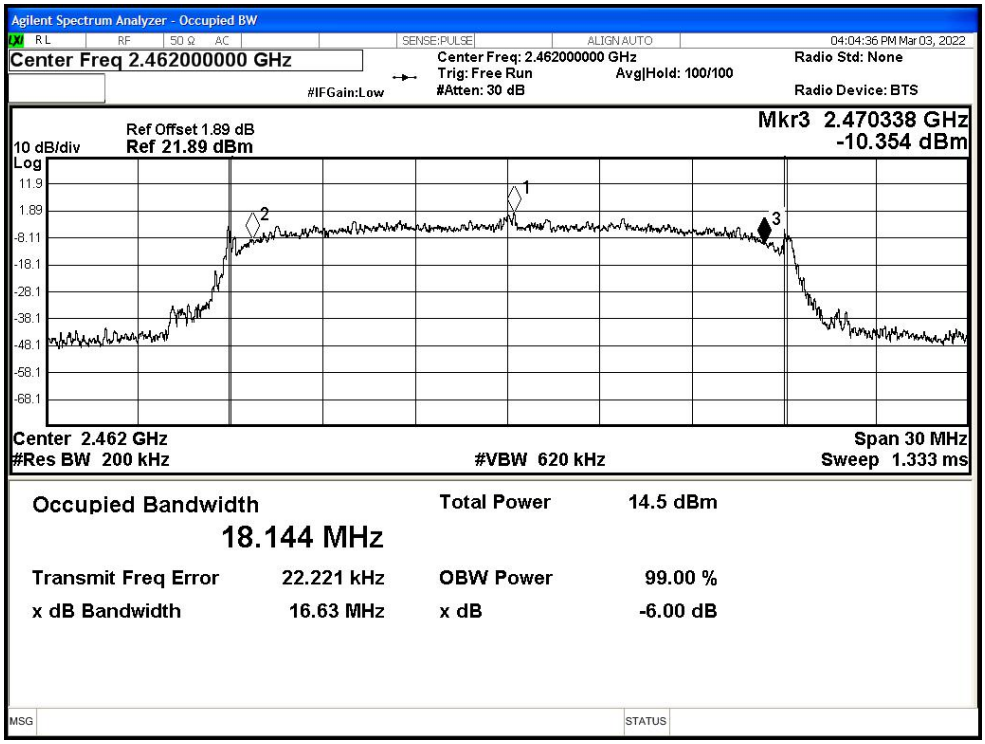
-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



-6dB Bandwidth NVNT n20 2462MHz Ant1



B.2 Maximum Conducted Output Power

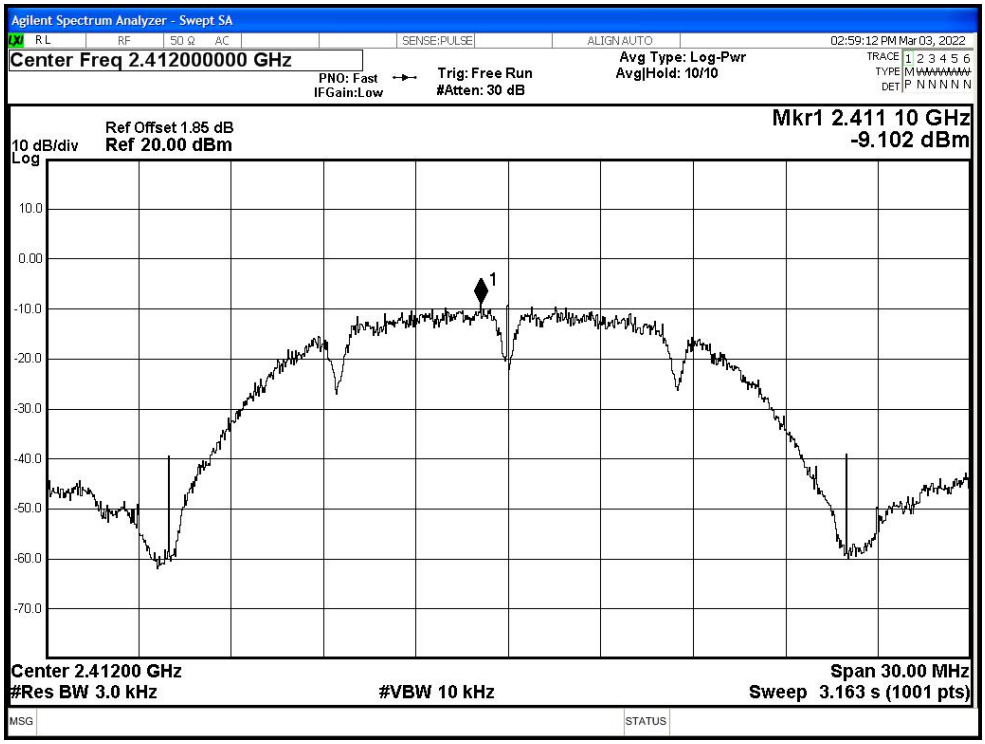
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	16.34	0	16.34	30	Pass
NVNT	b	2437	Ant1	16.1	0	16.1	30	Pass
NVNT	b	2462	Ant1	16.72	0	16.72	30	Pass
NVNT	g	2412	Ant1	15.29	0	15.29	30	Pass
NVNT	g	2437	Ant1	14.96	0	14.96	30	Pass
NVNT	g	2462	Ant1	14.27	0	14.27	30	Pass
NVNT	n20	2412	Ant1	14.49	0	14.49	30	Pass
NVNT	n20	2437	Ant1	14.03	0	14.03	30	Pass
NVNT	n20	2462	Ant1	13.47	0	13.47	30	Pass

B.3 Power Spectral Density

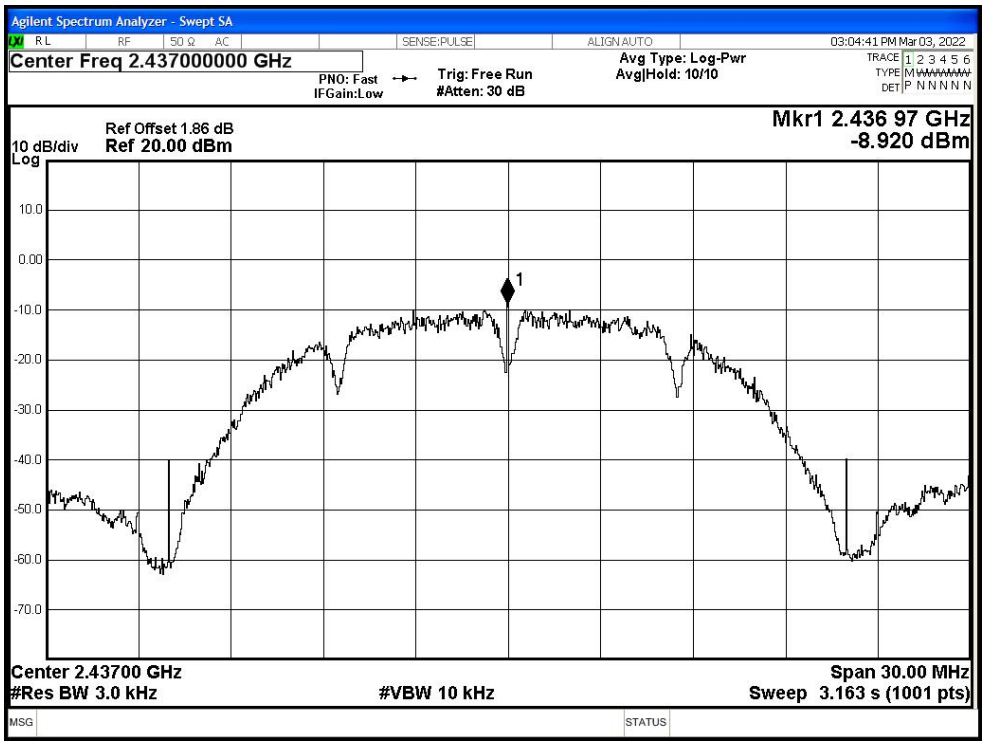
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-9.1	0	-9.1	8	Pass
NVNT	b	2437	Ant1	-8.92	0	-8.92	8	Pass
NVNT	b	2462	Ant1	-8.72	0	-8.72	8	Pass
NVNT	g	2412	Ant1	-8.7	0	-8.7	8	Pass
NVNT	g	2437	Ant1	-7.93	0	-7.93	8	Pass
NVNT	g	2462	Ant1	-9.55	0	-9.55	8	Pass
NVNT	n20	2412	Ant1	-8.56	0	-8.56	8	Pass
NVNT	n20	2437	Ant1	-8.84	0	-8.84	8	Pass
NVNT	n20	2462	Ant1	-9.01	0	-9.01	8	Pass

Test Graphs

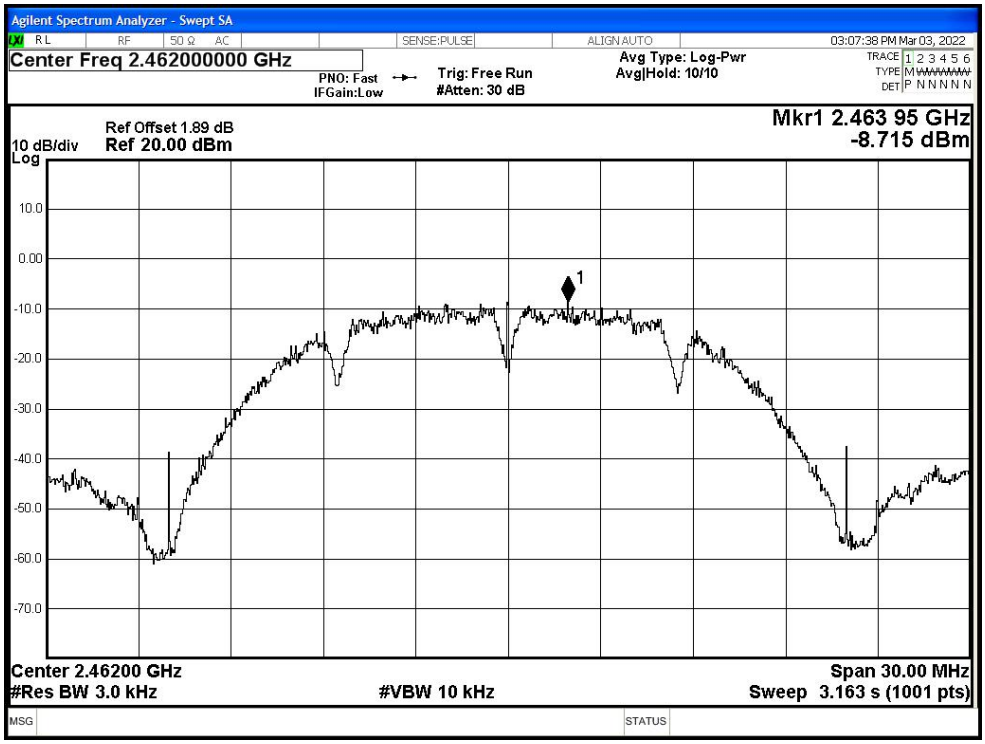
PSD NVNT b 2412MHz Ant1



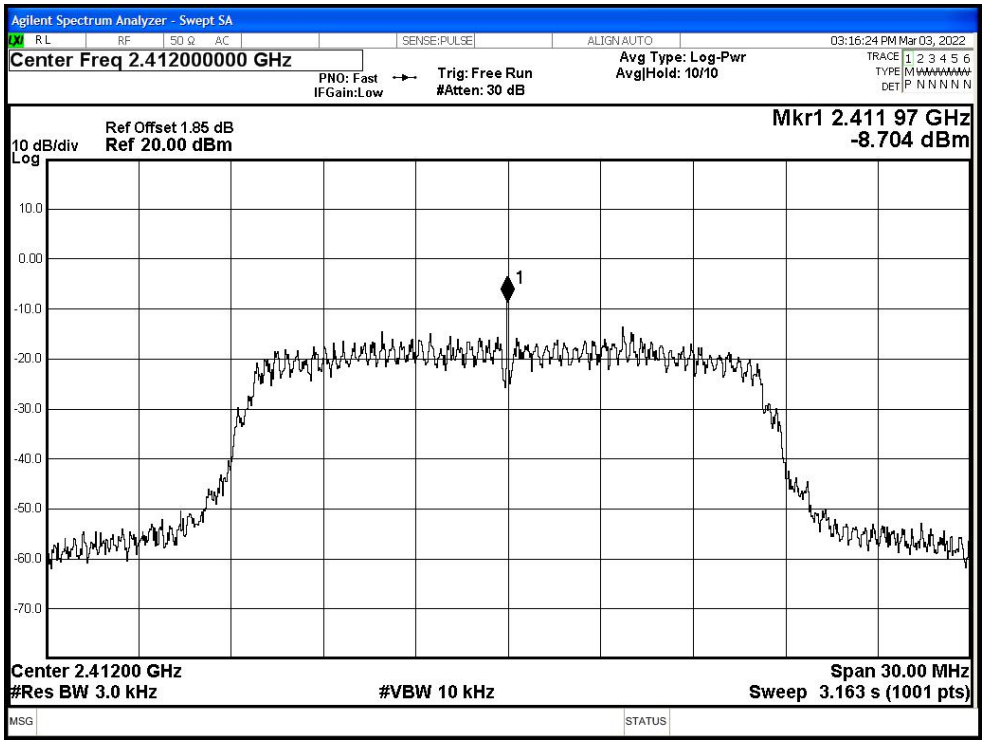
PSD NVNT b 2437MHz Ant1



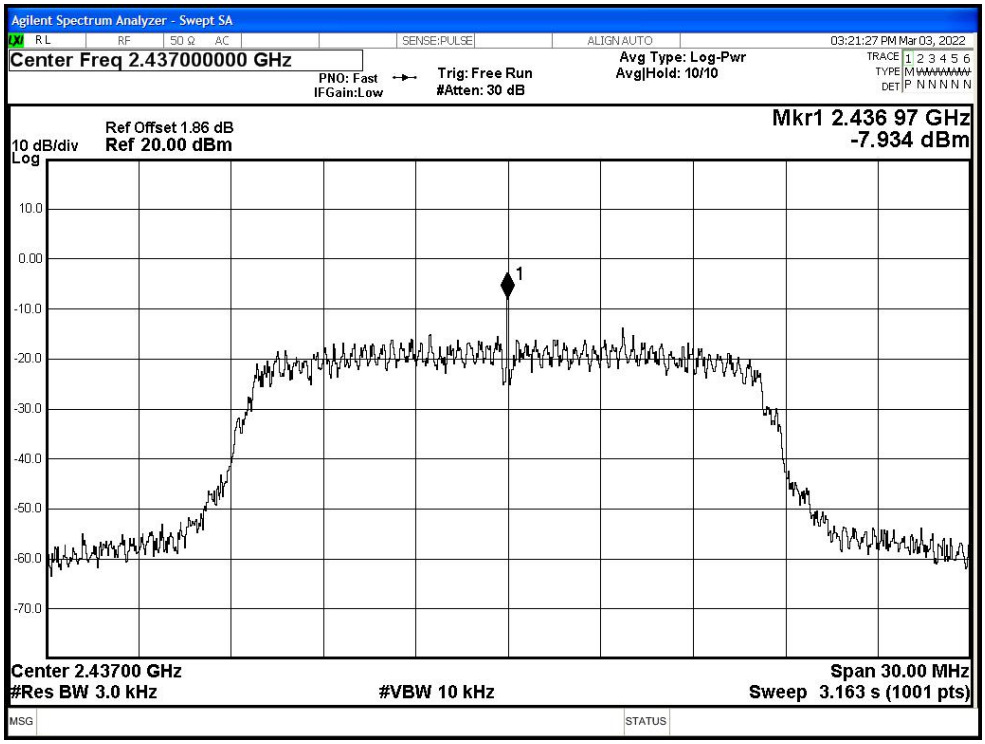
PSD NVNT b 2462MHz Ant1



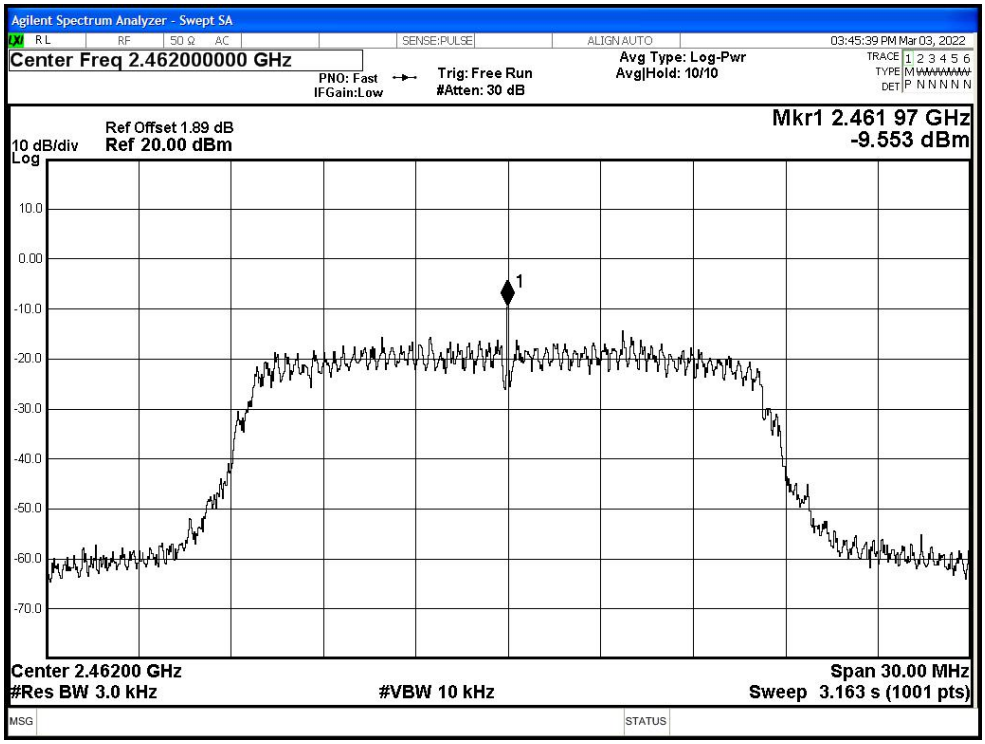
PSD NVNT g 2412MHz Ant1



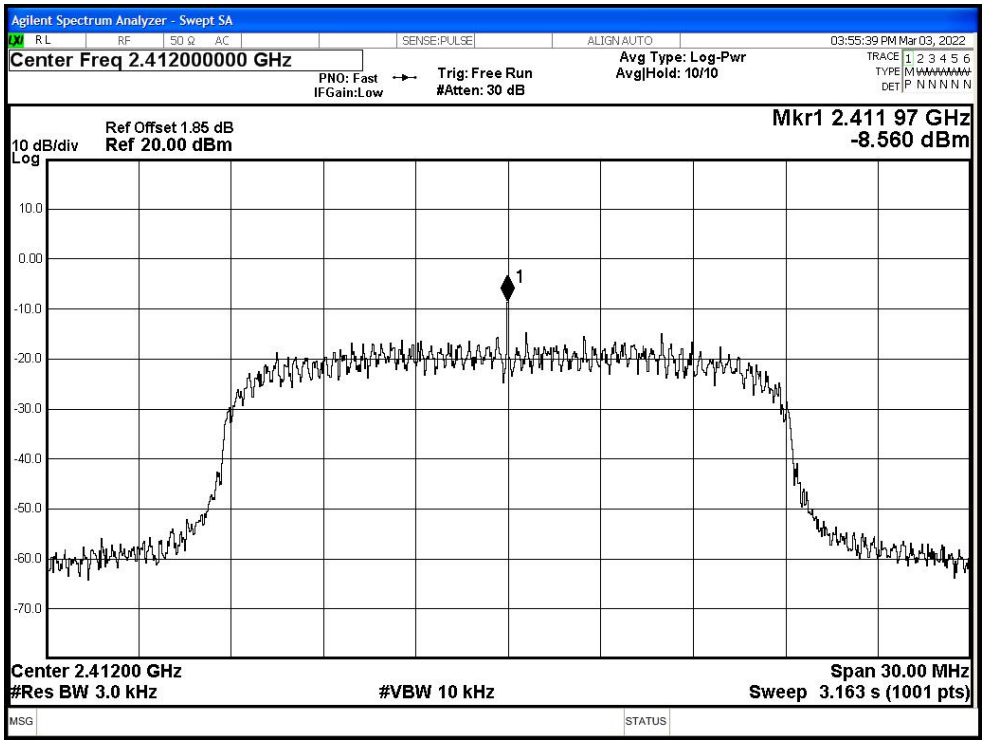
PSD NVNT g 2437MHz Ant1



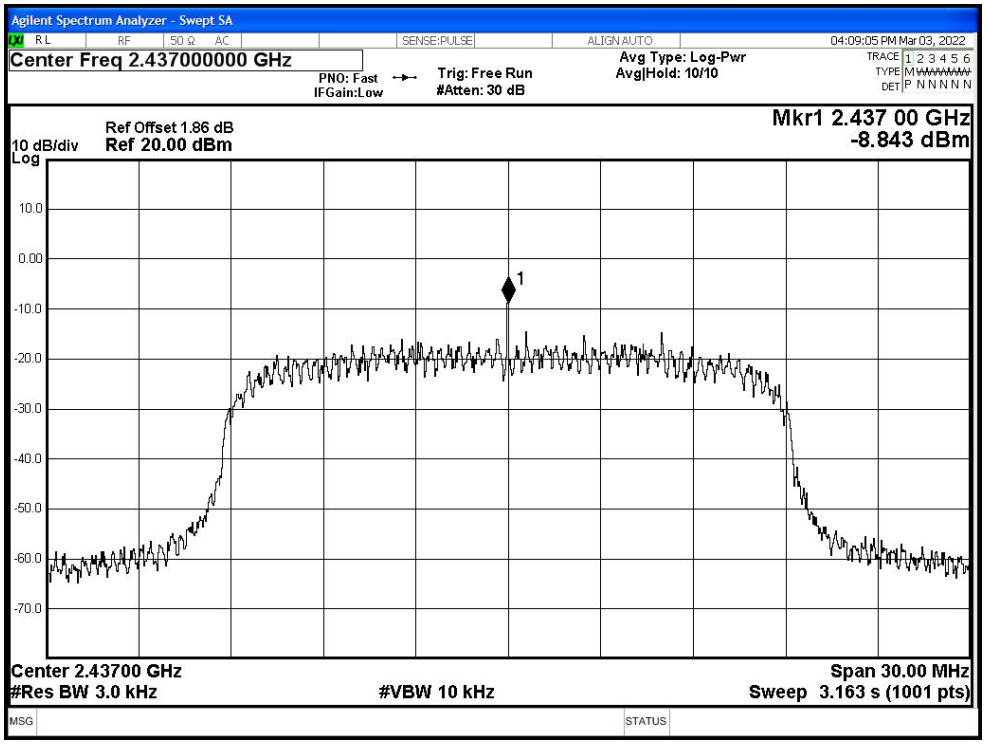
PSD NVNT g 2462MHz Ant1



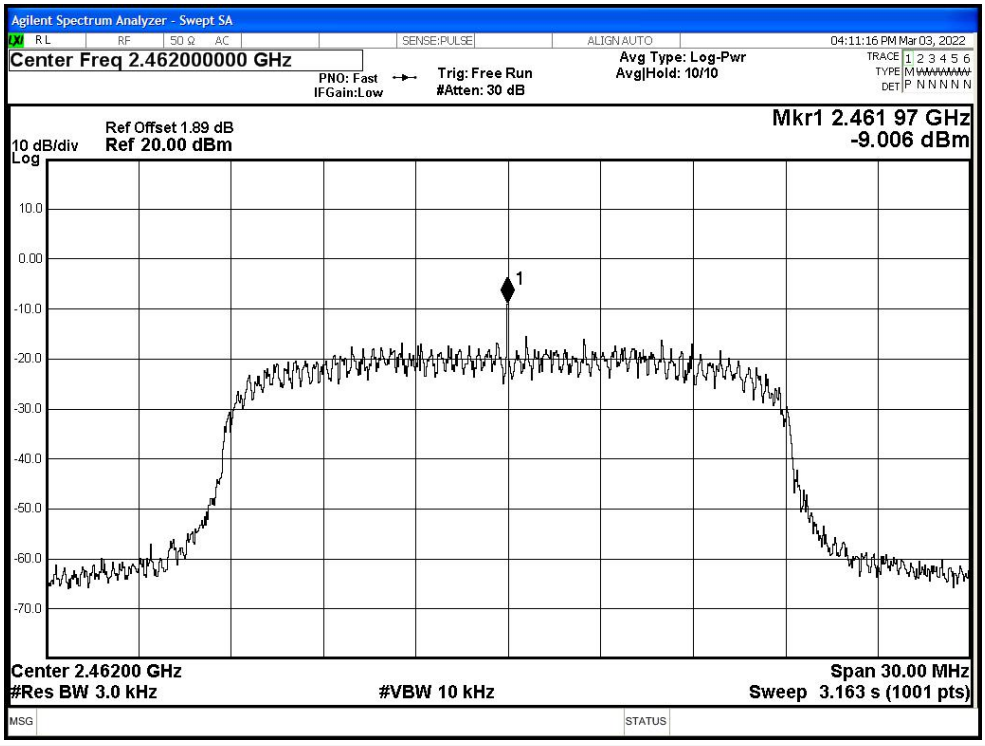
PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1



PSD NVNT n20 2462MHz Ant1

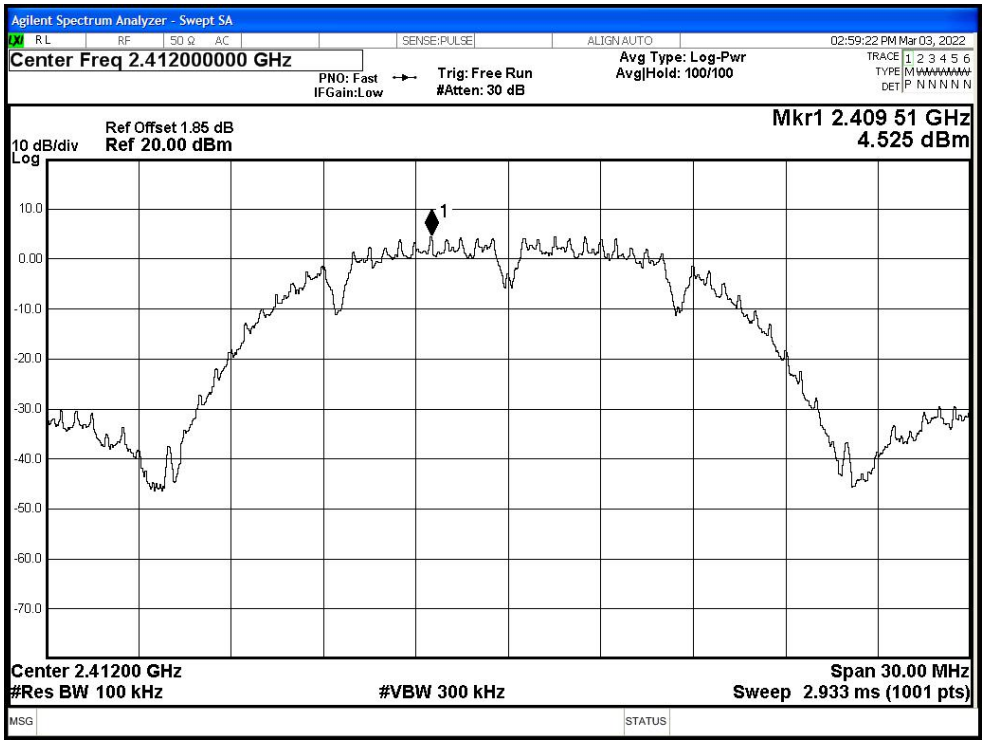


B.4 Band Edge

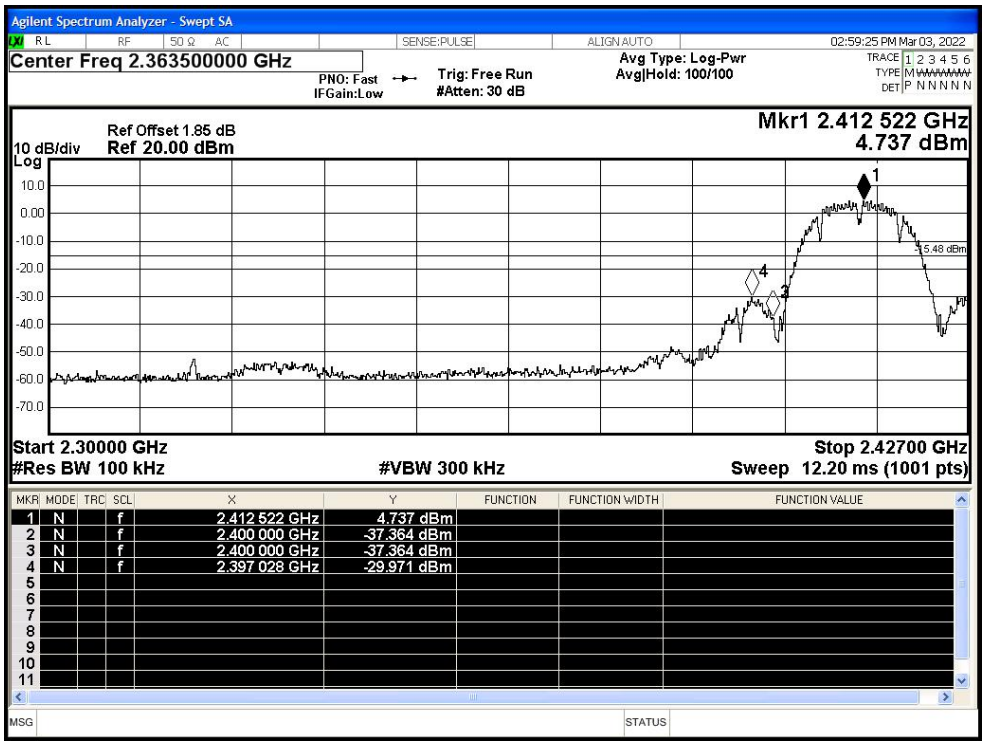
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-34.49	-20	Pass
NVNT	b	2462	Ant1	-50.73	-20	Pass
NVNT	g	2412	Ant1	-36.41	-20	Pass
NVNT	g	2462	Ant1	-49.73	-20	Pass
NVNT	n20	2412	Ant1	-39.92	-20	Pass
NVNT	n20	2462	Ant1	-50.26	-20	Pass

Test Graphs

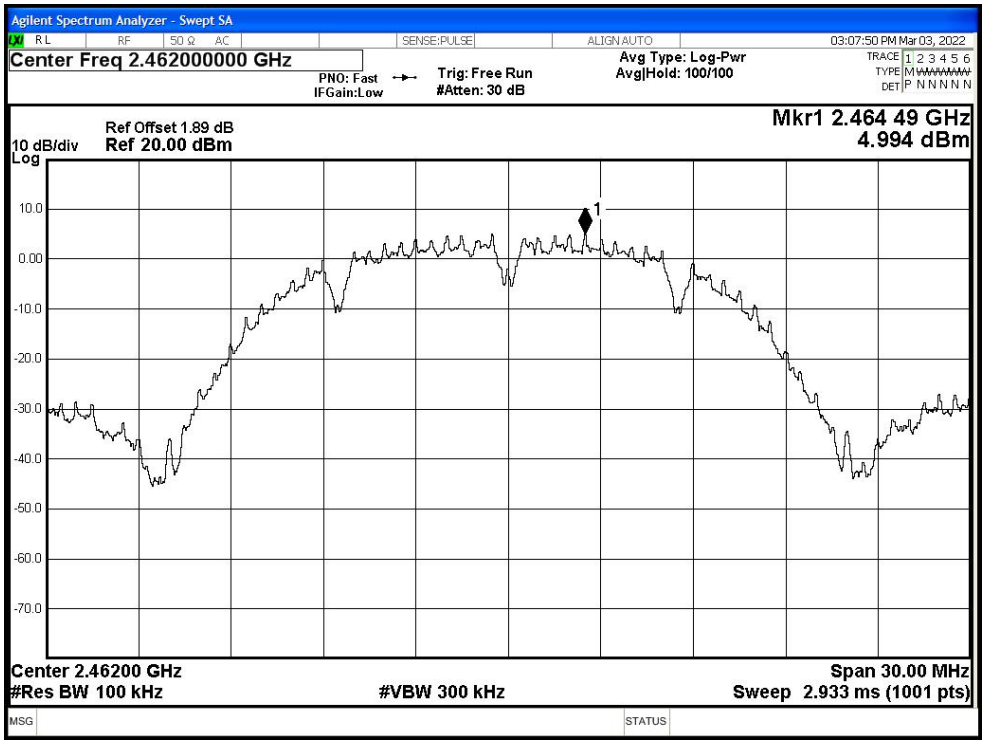
Band Edge NVNT b 2412MHz Ant1 Ref



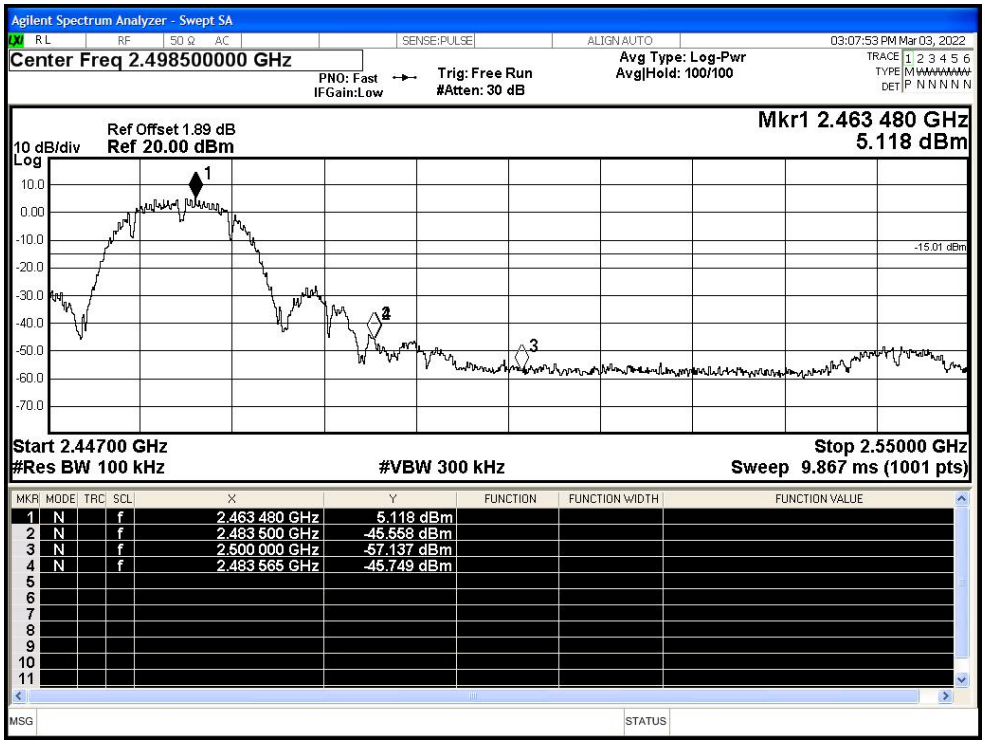
Band Edge NVNT b 2412MHz Ant1 Emission



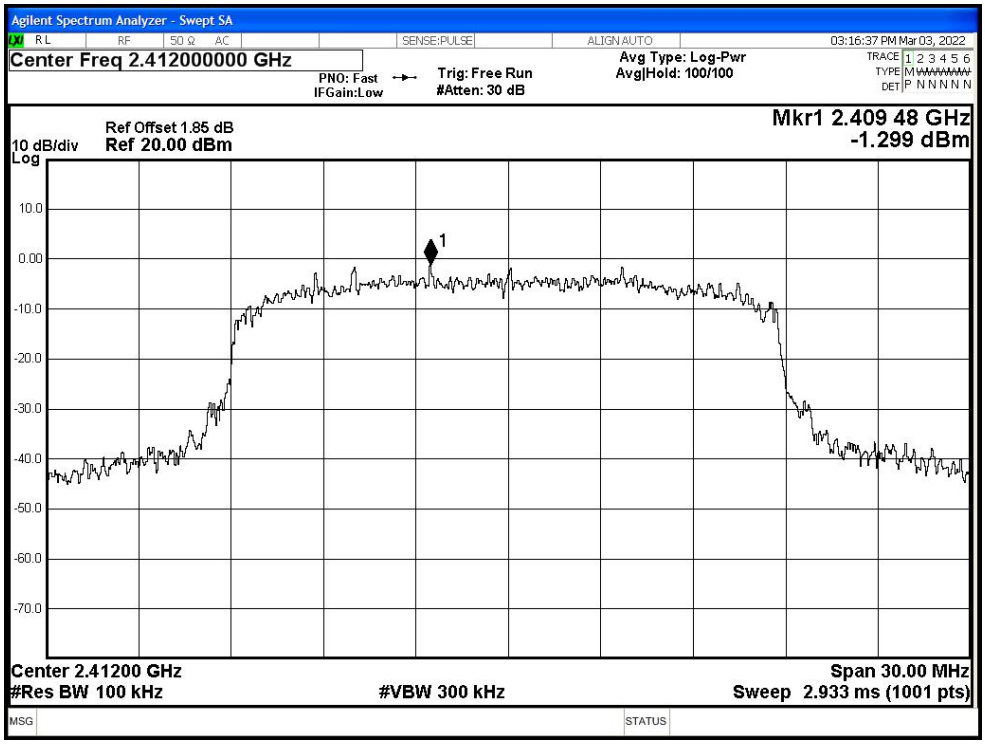
Band Edge NVNT b 2462MHz Ant1 Ref



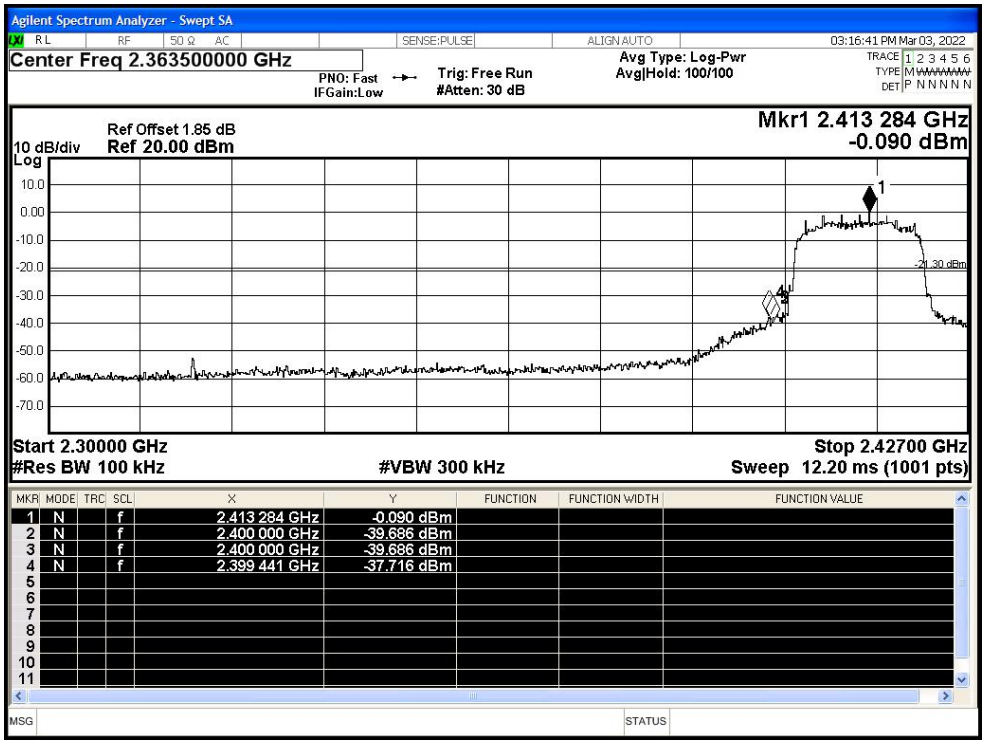
Band Edge NVNT b 2462MHz Ant1 Emission



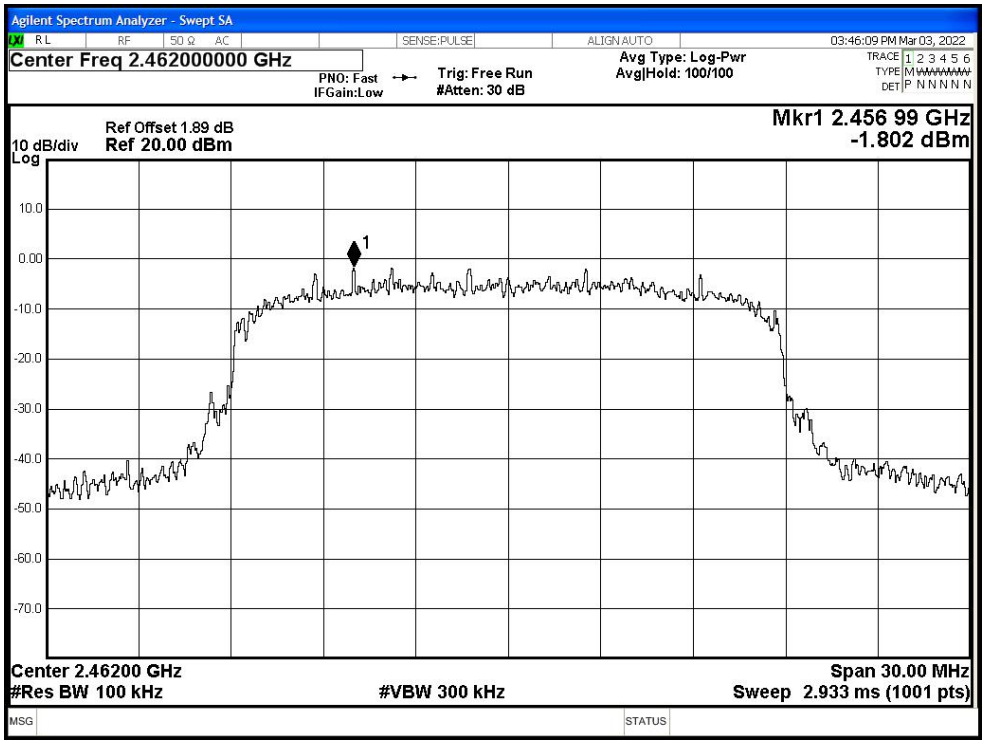
Band Edge NVNT g 2412MHz Ant1 Ref



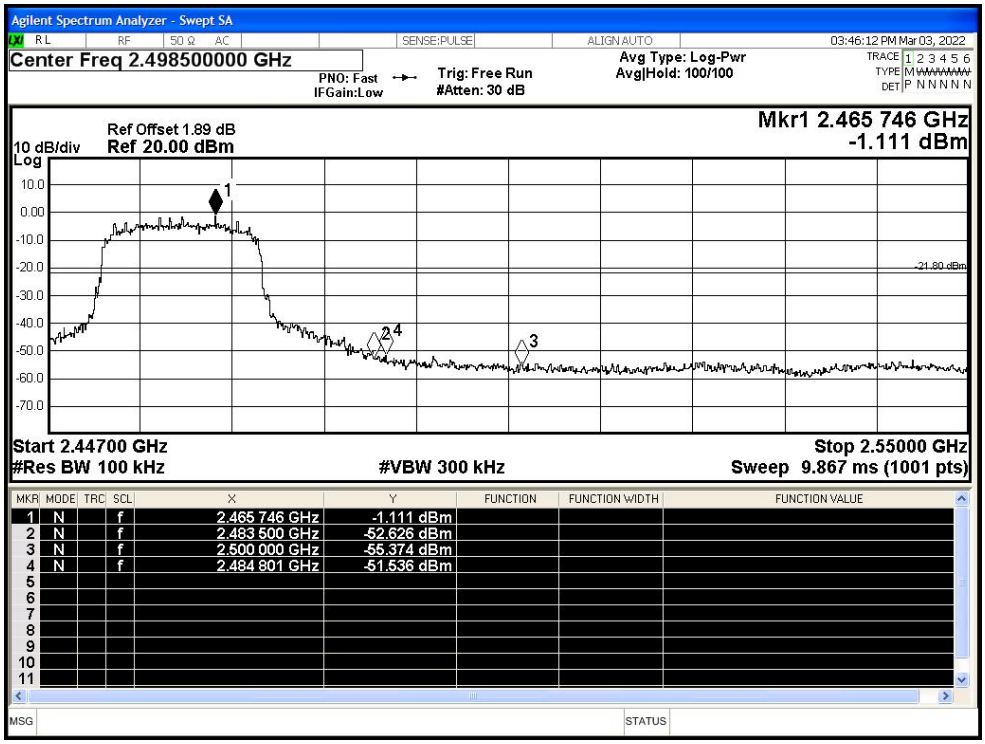
Band Edge NVNT g 2412MHz Ant1 Emission



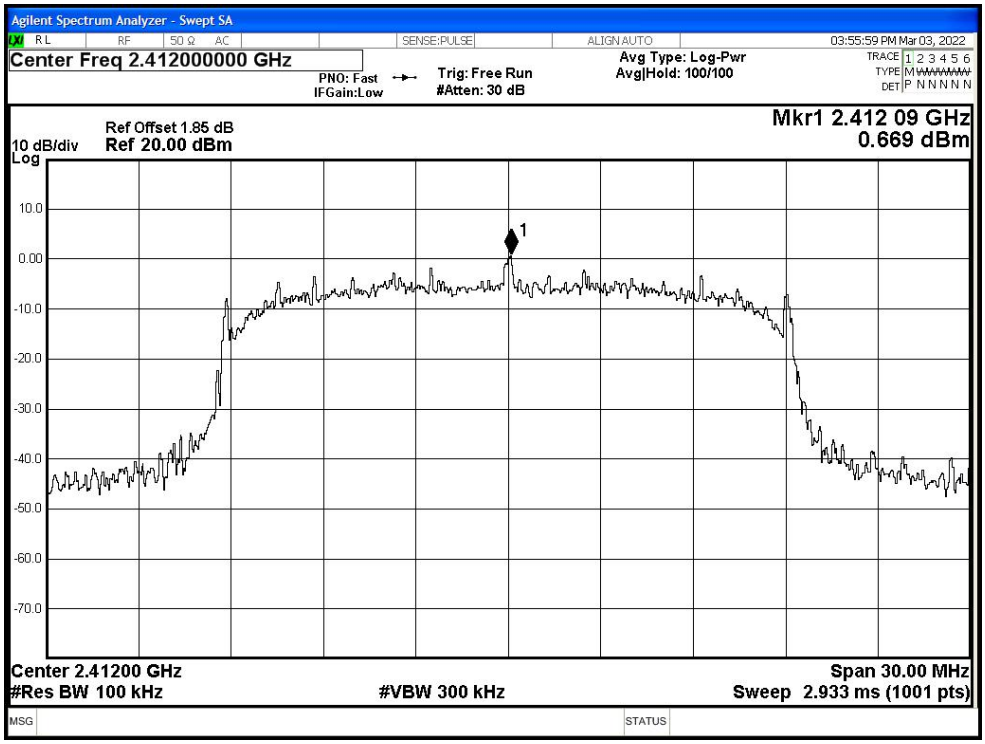
Band Edge NVNT g 2462MHz Ant1 Ref



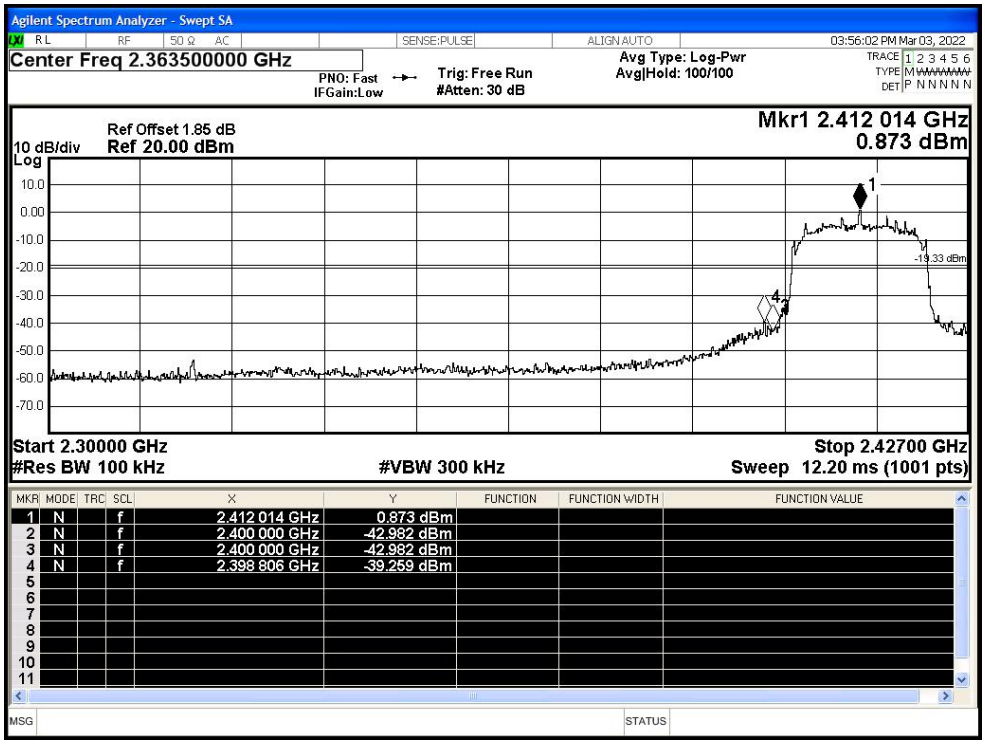
Band Edge NVNT g 2462MHz Ant1 Emission



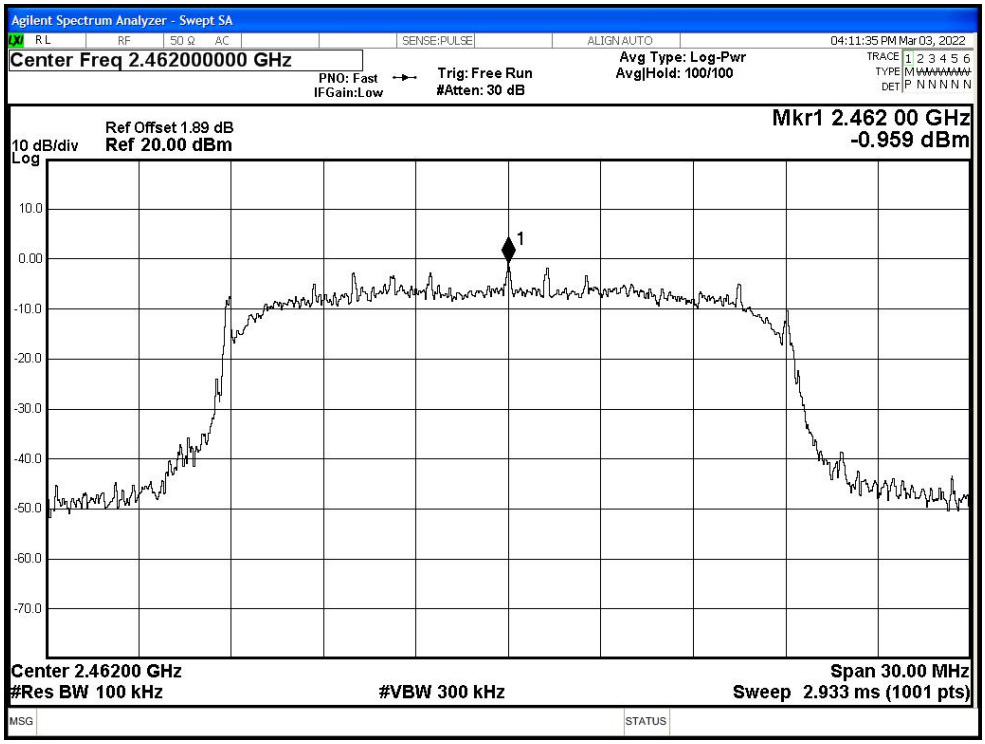
Band Edge NVNT n20 2412MHz Ant1 Ref



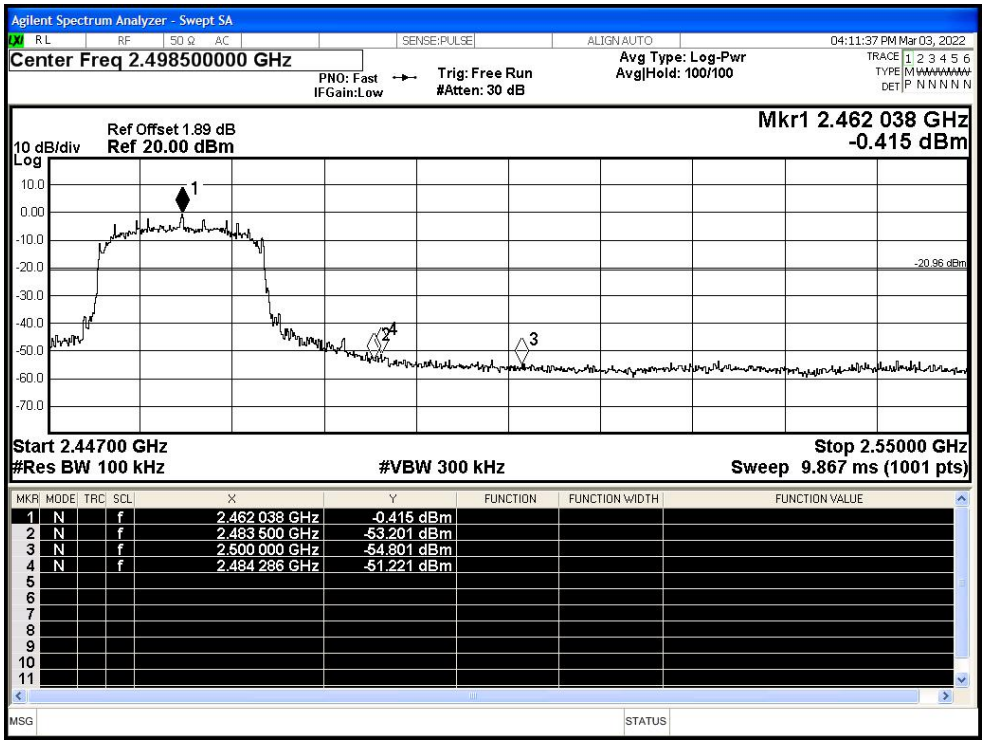
Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission

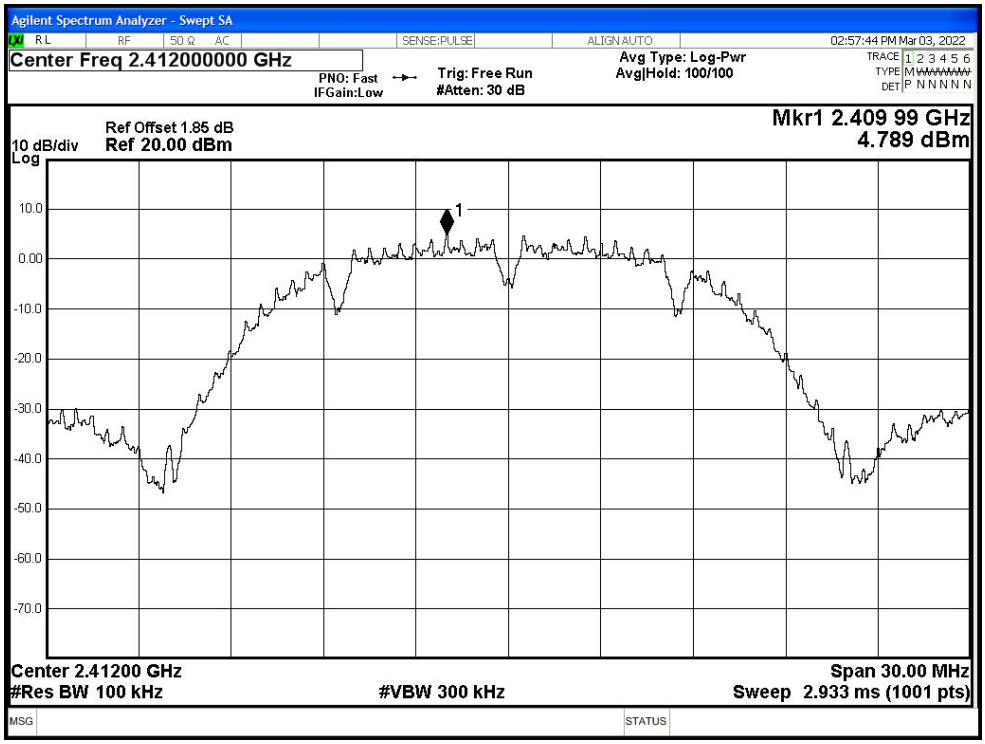


B.5 Conducted RF Spurious Emission

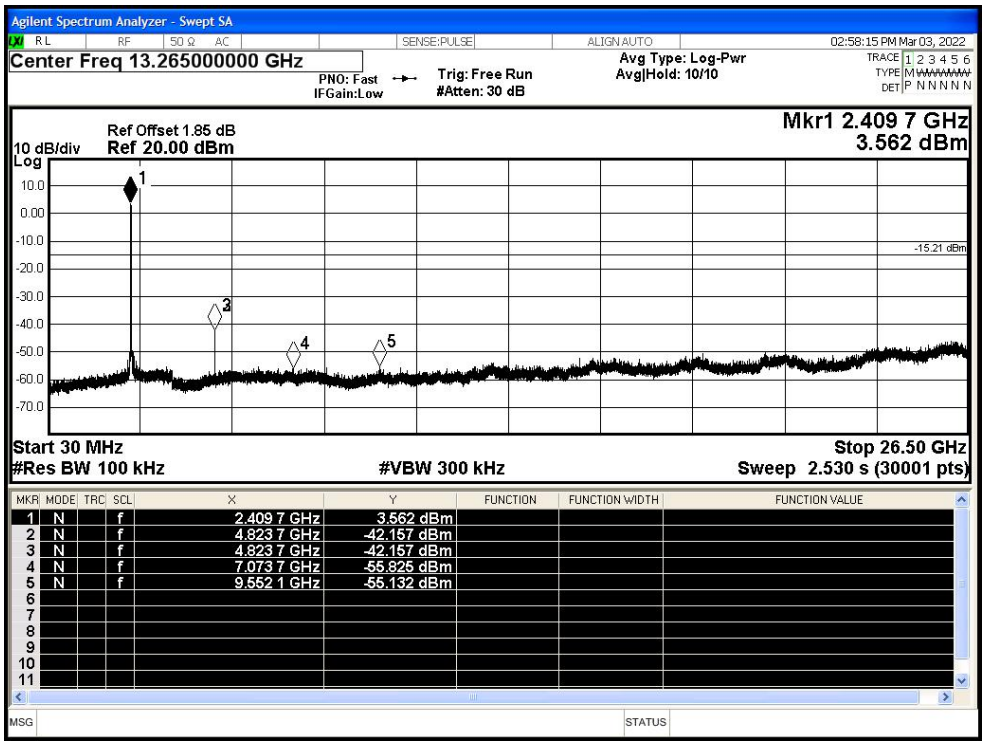
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-46.94	-20	Pass
NVNT	b	2437	Ant1	-47.29	-20	Pass
NVNT	b	2462	Ant1	-47.59	-20	Pass
NVNT	g	2412	Ant1	-45.74	-20	Pass
NVNT	g	2437	Ant1	-45.53	-20	Pass
NVNT	g	2462	Ant1	-44.28	-20	Pass
NVNT	n20	2412	Ant1	-46.77	-20	Pass
NVNT	n20	2437	Ant1	-45.52	-20	Pass
NVNT	n20	2462	Ant1	-46.04	-20	Pass

Test Graphs

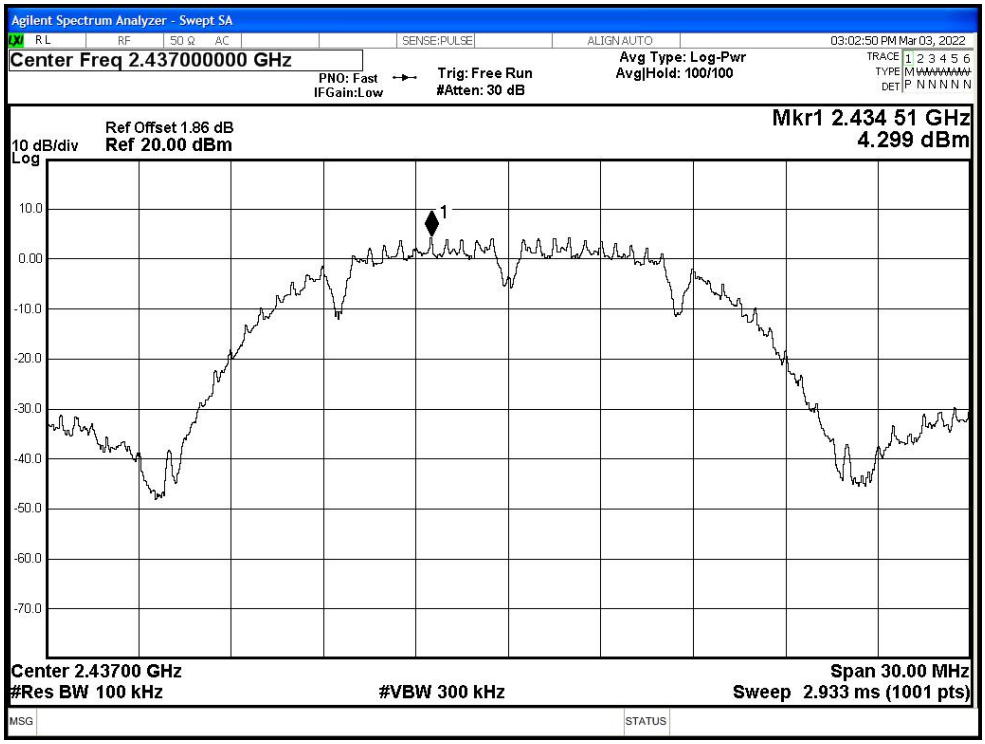
Tx. Spurious NVNT b 2412MHz Ant1 Ref



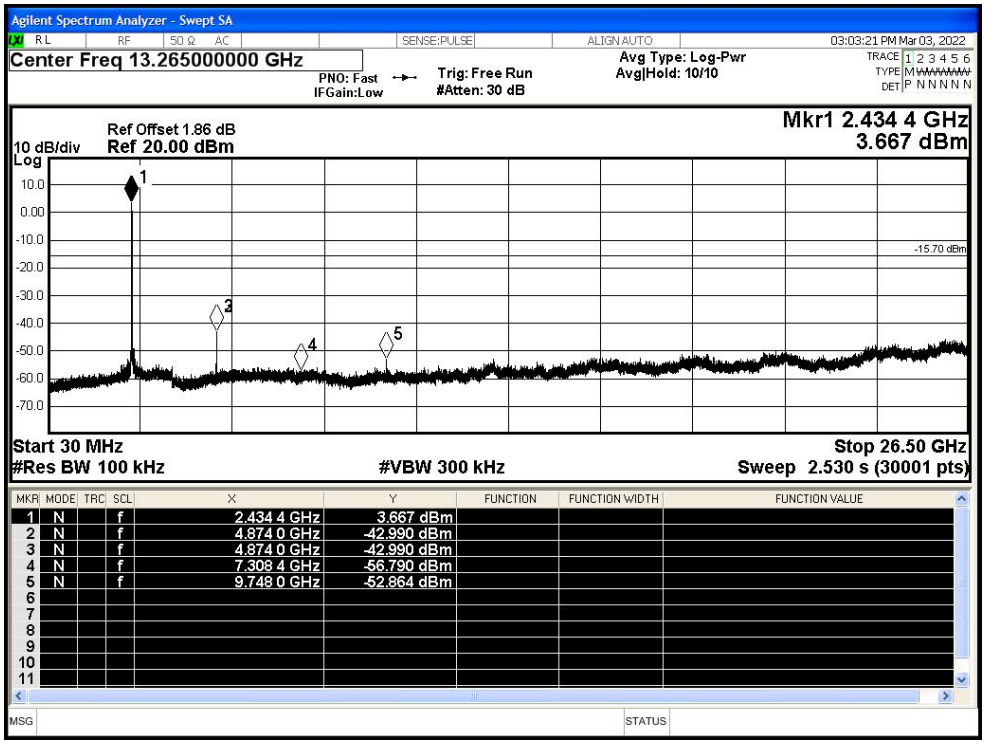
Tx. Spurious NVNT b 2412MHz Ant1 Emission



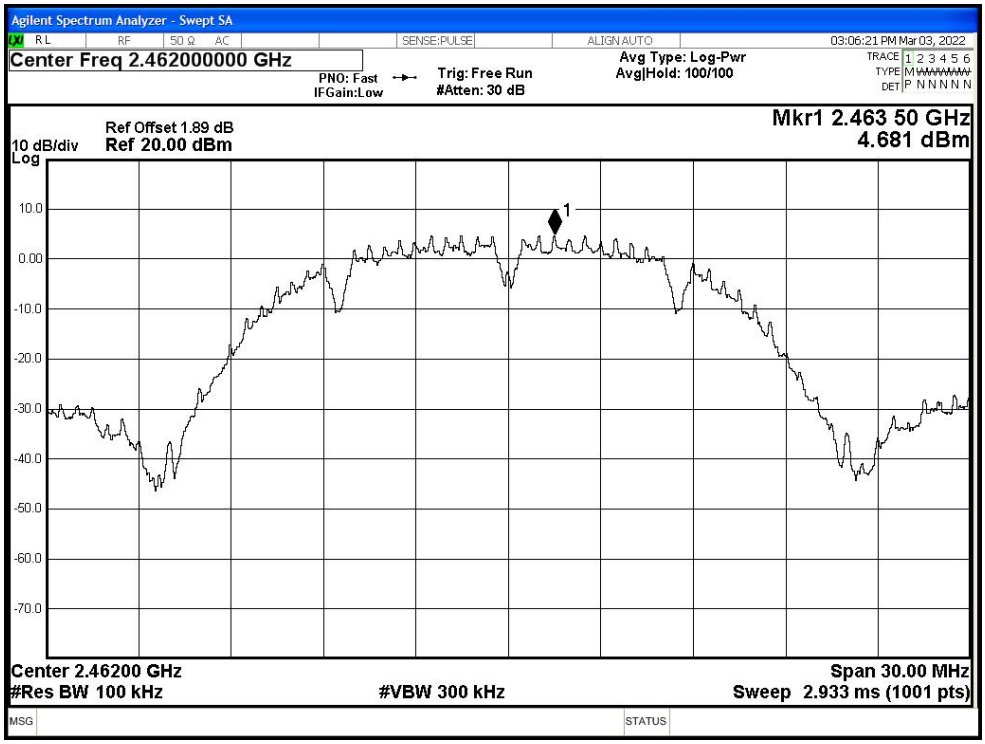
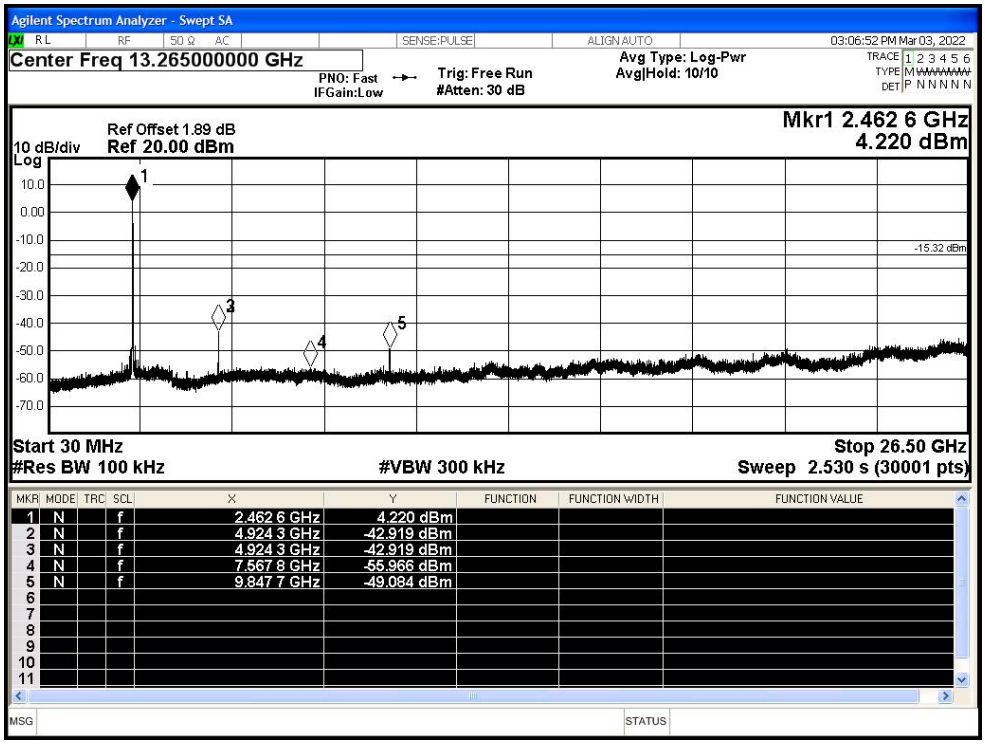
Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission



Tx. Spurious NVNT b 2462MHz Ant1 Ref



Tx. Spurious NVNT b 2462MHz Ant1 Emission