

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BNXK-P-LFPO1

Company: : Shenzhen Limpet Technology Co., Ltd.

EUT : Wali Smart Pet Feeder With AI Camera

Model Number : P-LFP01

Report No. : CTA25070500602

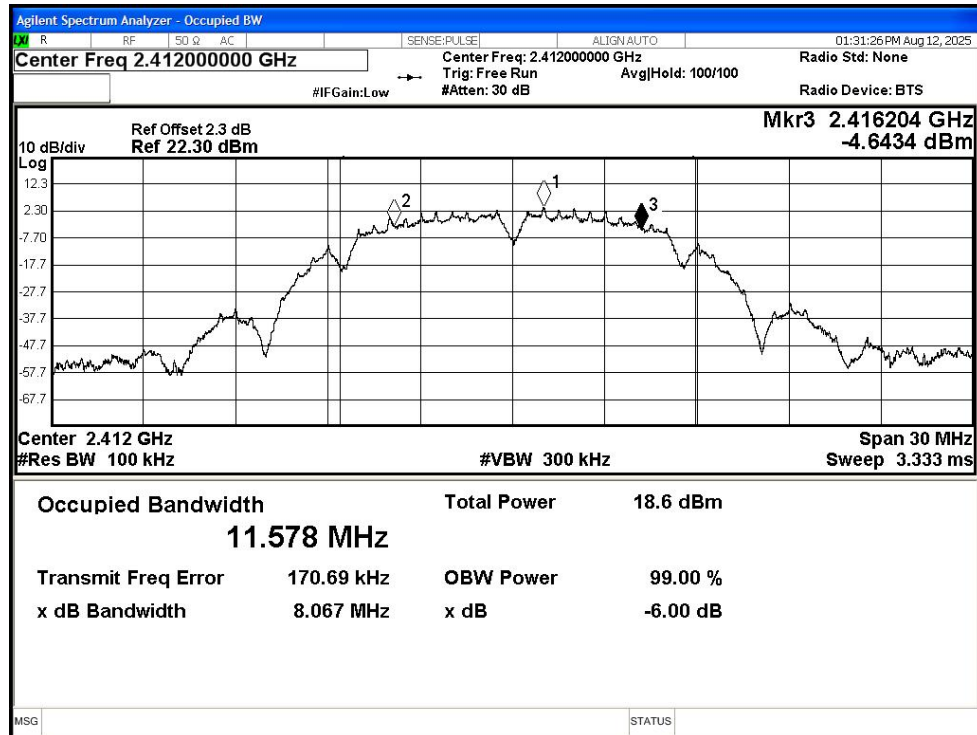
Reviewed By : Eric Wang

-6dB Bandwidth

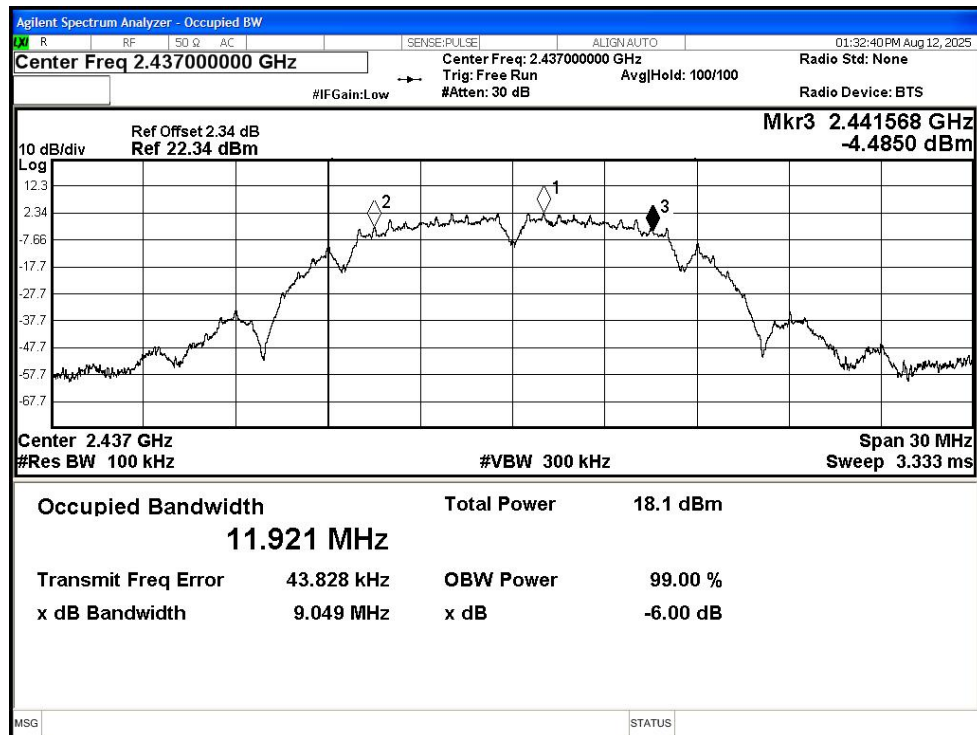
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.067	≥ 0.5	Pass
NVNT	b	2437	Ant1	9.049	≥ 0.5	Pass
NVNT	b	2462	Ant1	8.542	≥ 0.5	Pass
NVNT	g	2412	Ant1	15.905	≥ 0.5	Pass
NVNT	g	2437	Ant1	16.294	≥ 0.5	Pass
NVNT	g	2462	Ant1	16.308	≥ 0.5	Pass
NVNT	n20	2412	Ant1	16.662	≥ 0.5	Pass
NVNT	n20	2437	Ant1	16.998	≥ 0.5	Pass
NVNT	n20	2462	Ant1	16.729	≥ 0.5	Pass

Test Graphs

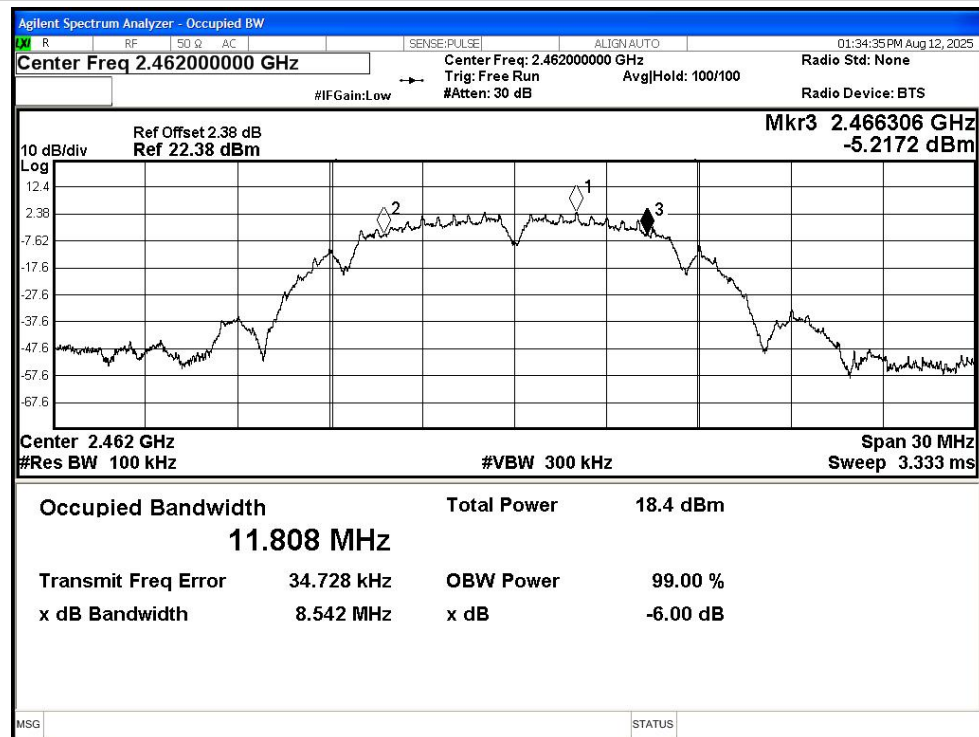
-6dB Bandwidth NVNT b 2412MHz Ant1



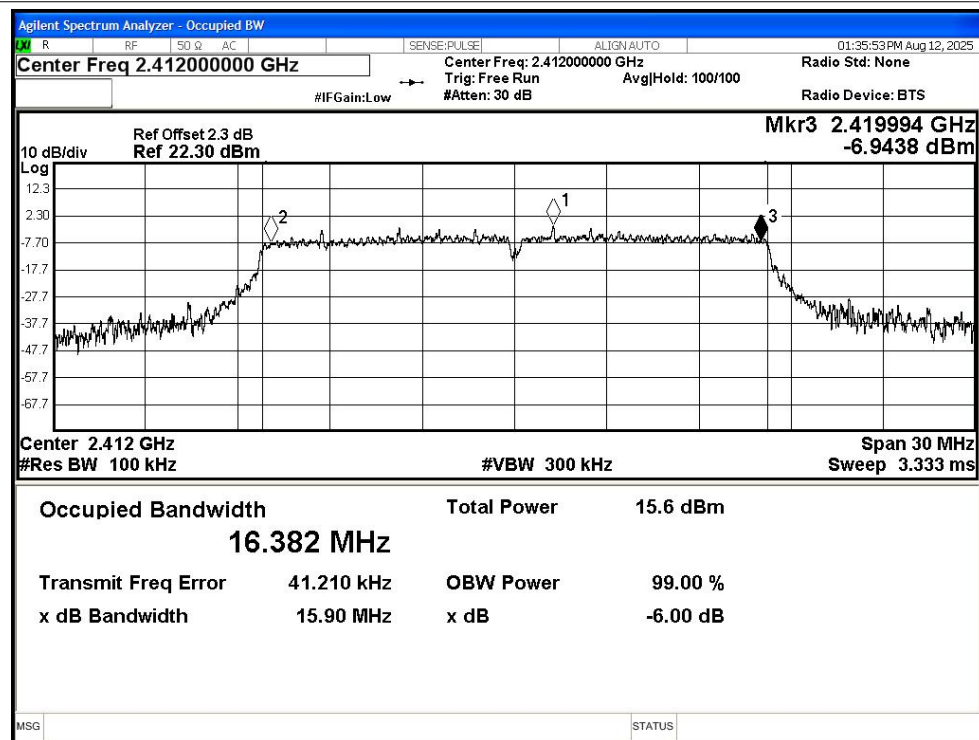
-6dB Bandwidth NVNT b 2437MHz Ant1



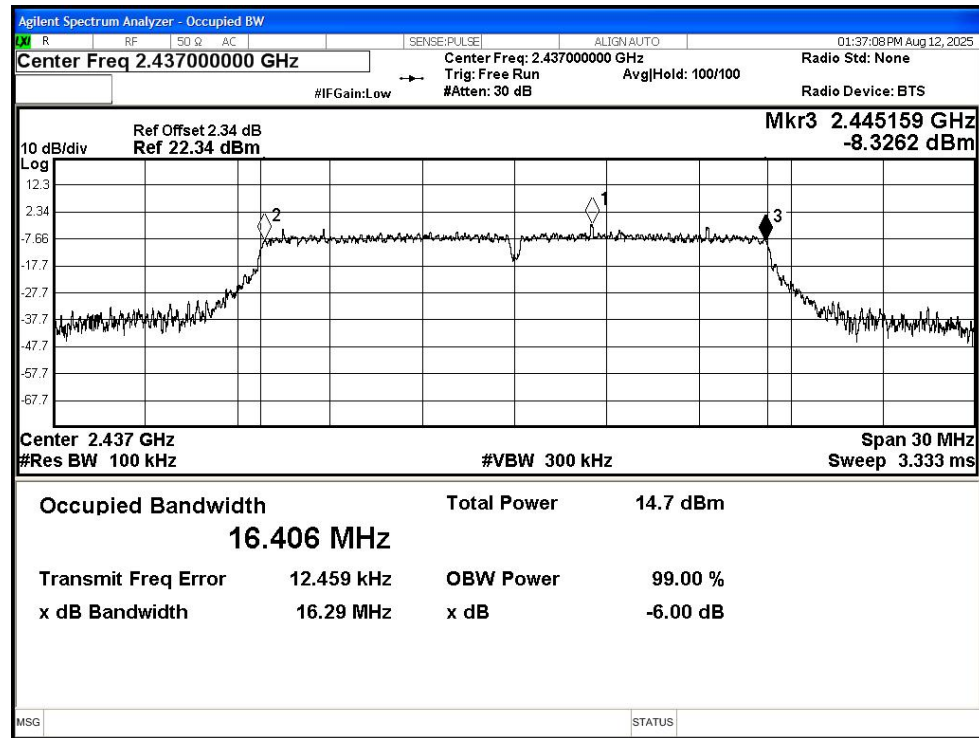
-6dB Bandwidth NVNT b 2462MHz Ant1



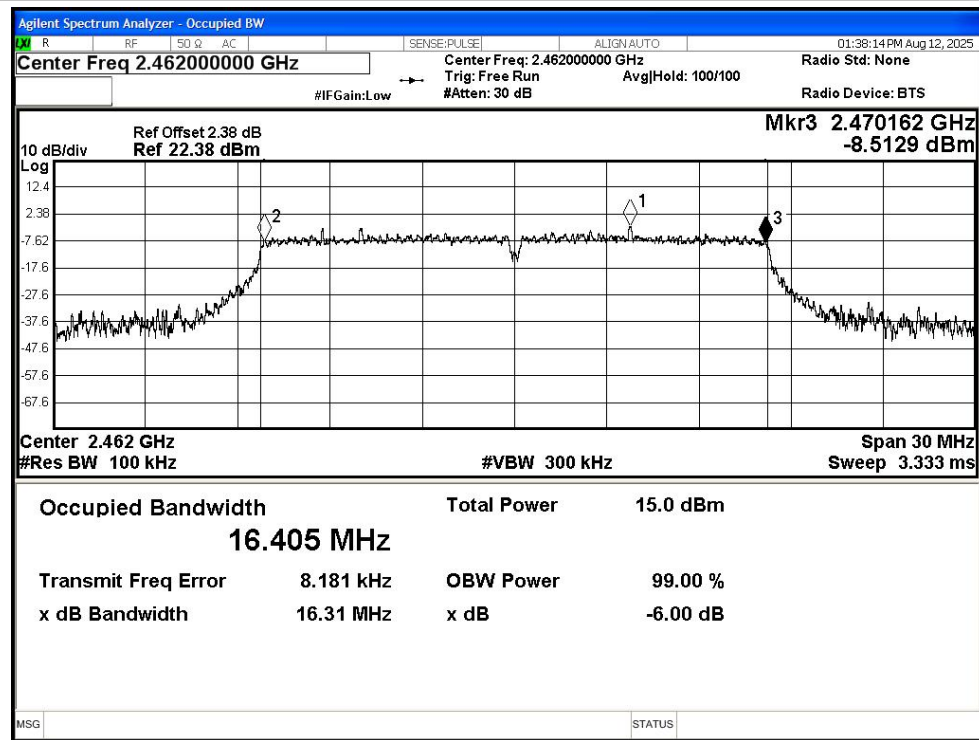
-6dB Bandwidth NVNT g 2412MHz Ant1



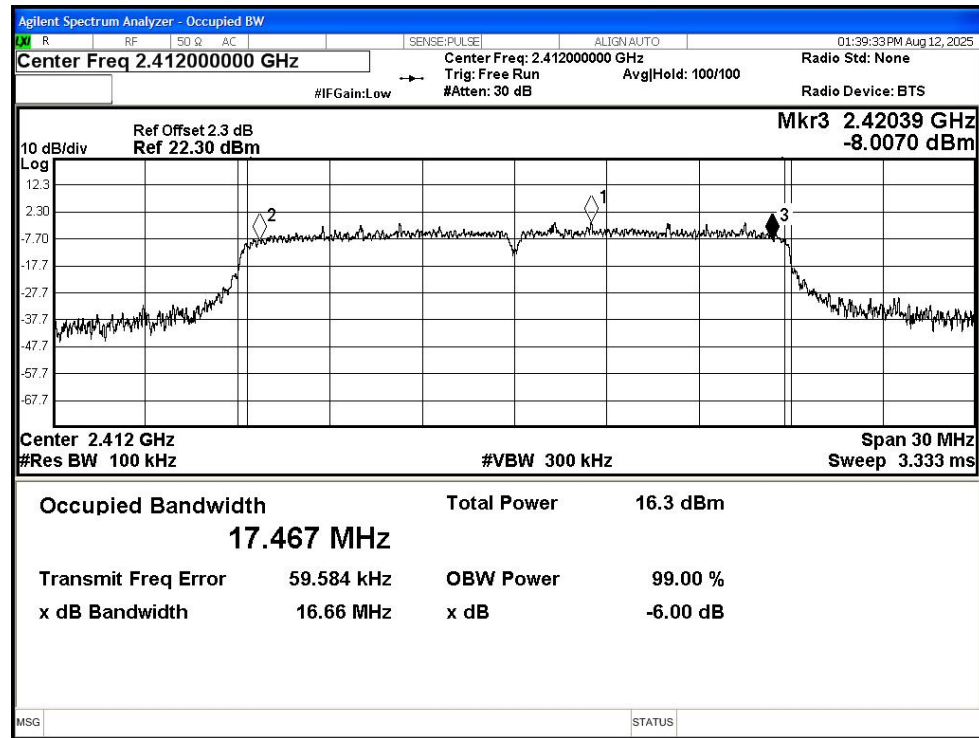
-6dB Bandwidth NVNT g 2437MHz Ant1



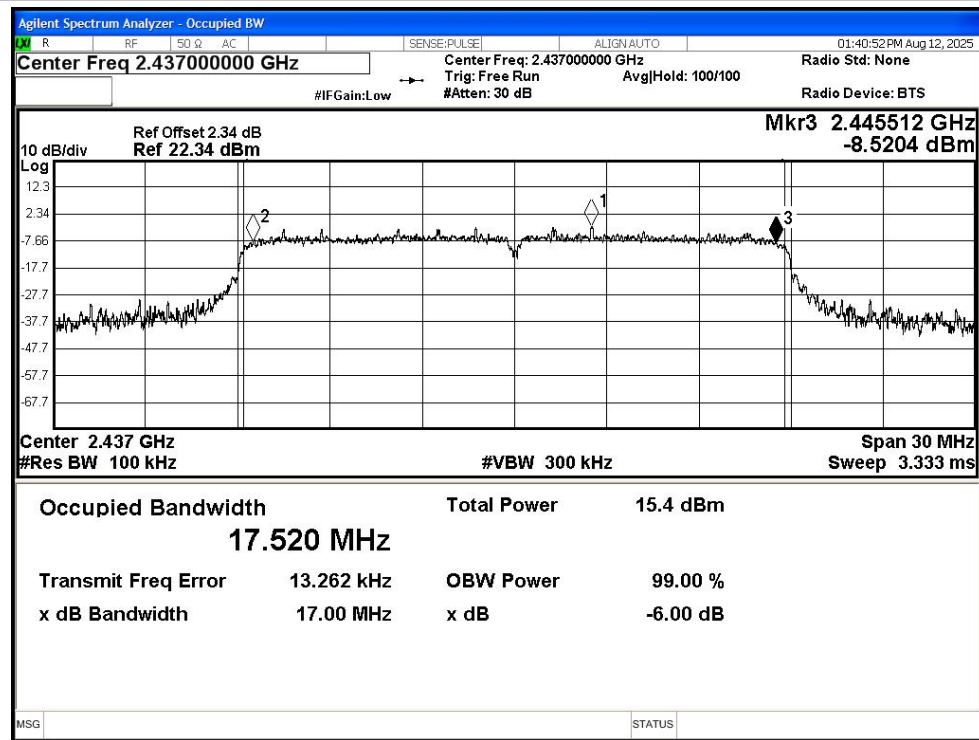
-6dB Bandwidth NVNT g 2462MHz Ant1



-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



-6dB Bandwidth NVNT n20 2462MHz Ant1

The screenshot displays an Agilent Spectrum Analyzer interface. The main display shows a frequency spectrum with a center frequency of 2.46200000 GHz. The y-axis is labeled 'Log' and ranges from -67.6 to 12.4 dBm. The x-axis represents frequency, with a span of 30 MHz. Three specific points are marked on the spectrum: point 1 is at the peak of the signal, point 2 is at the -6 dB bandwidth point, and point 3 is at the -3.33 dBm level. The interface includes various control fields and measurement results.

Agilent Spectrum Analyzer - Occupied BW			
UNIT	R	RF	50 Ω AC
Center Freq 2.46200000 GHz		Center Freq: 2.462000000 GHz	
		Trig: Free Run	
#IF Gain: Low		#Atten: 30 dB	
		Avg/Hold: 100/100	
		Radio Std: None	
		Radio Device: BTS	
Ref Offset 2.38 dB		Mkr3 2.470384 GHz	
Ref 22.38 dBm		-8.3344 dBm	
10 dB/div Log 12.4 2.38 -7.62 -17.6 -27.6 -37.6 -47.6 -57.6 -67.6			
Center 2.462 GHz		Span 30 MHz	
#Res BW 100 kHz		#VBW 300 kHz	
		Sweep 3.333 ms	
Occupied Bandwidth		Total Power	
17.494 MHz		15.7 dBm	
Transmit Freq Error		OBW Power	
19.980 kHz		99.00 %	
x dB Bandwidth		x dB	
16.73 MHz		-6.00 dB	
MSG		STATUS	

Maximum Peak Conducted Output Power

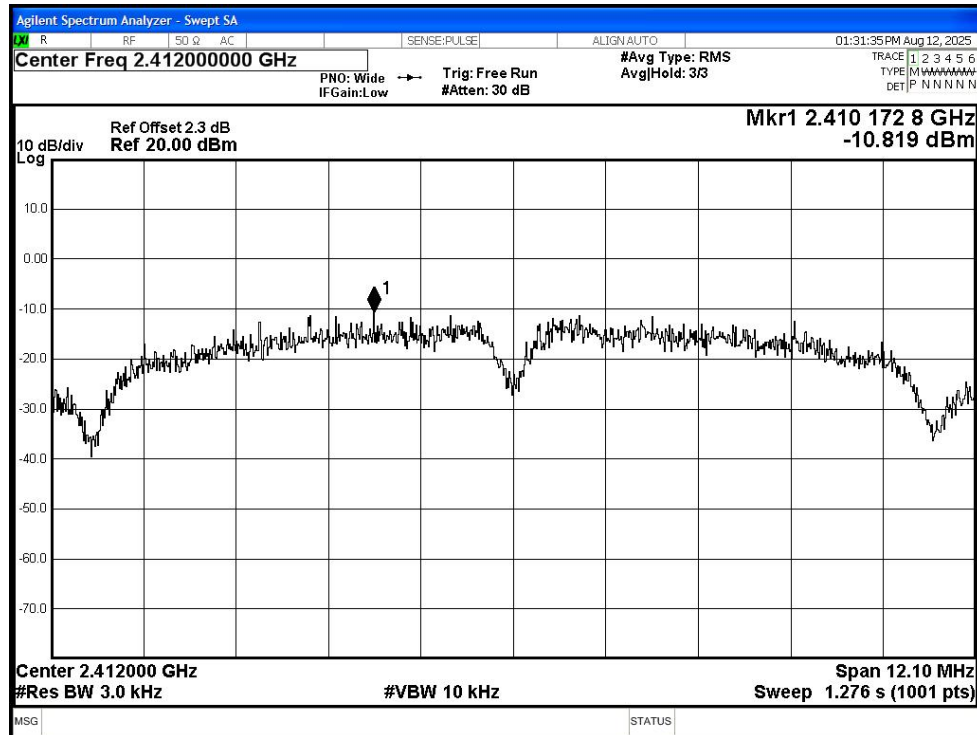
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	13.63	30	Pass
NVNT	b	2437	Ant1	13.1	30	Pass
NVNT	b	2462	Ant1	13.36	30	Pass
NVNT	g	2412	Ant1	14.26	30	Pass
NVNT	g	2437	Ant1	13.59	30	Pass
NVNT	g	2462	Ant1	13.75	30	Pass
NVNT	n20	2412	Ant1	14.77	30	Pass
NVNT	n20	2437	Ant1	14	30	Pass
NVNT	n20	2462	Ant1	14.17	30	Pass

Maximum Power Spectral Density Level

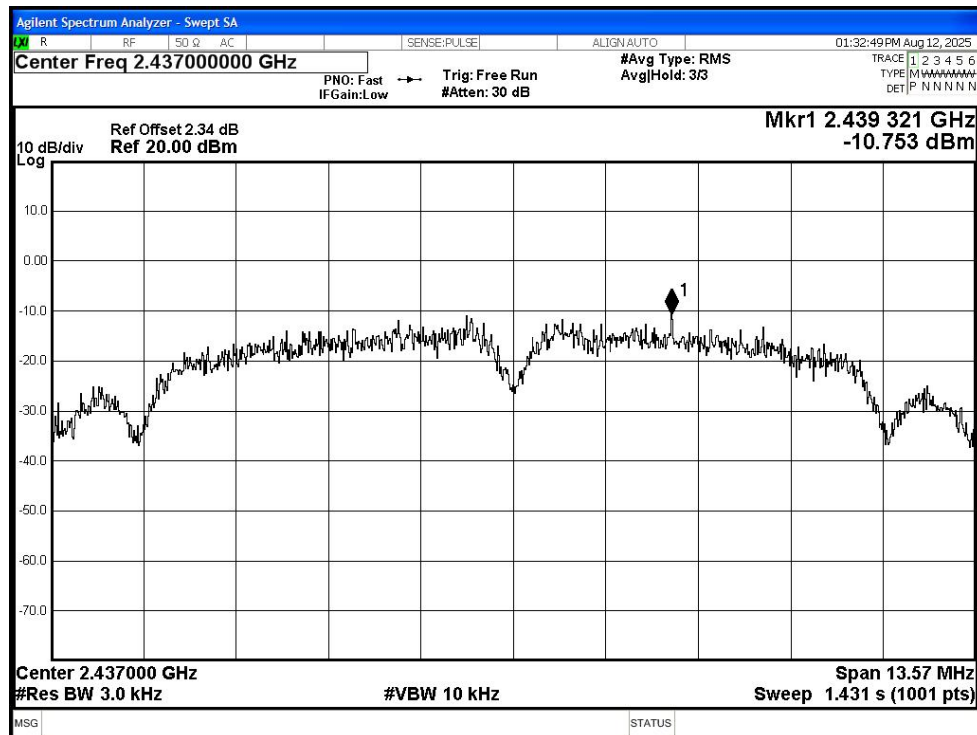
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-10.82	8	Pass
NVNT	b	2437	Ant1	-10.75	8	Pass
NVNT	b	2462	Ant1	-7.81	8	Pass
NVNT	g	2412	Ant1	-15.81	8	Pass
NVNT	g	2437	Ant1	-17.11	8	Pass
NVNT	g	2462	Ant1	-16.36	8	Pass
NVNT	n20	2412	Ant1	-15.91	8	Pass
NVNT	n20	2437	Ant1	-17.08	8	Pass
NVNT	n20	2462	Ant1	-17.39	8	Pass

Test Graphs

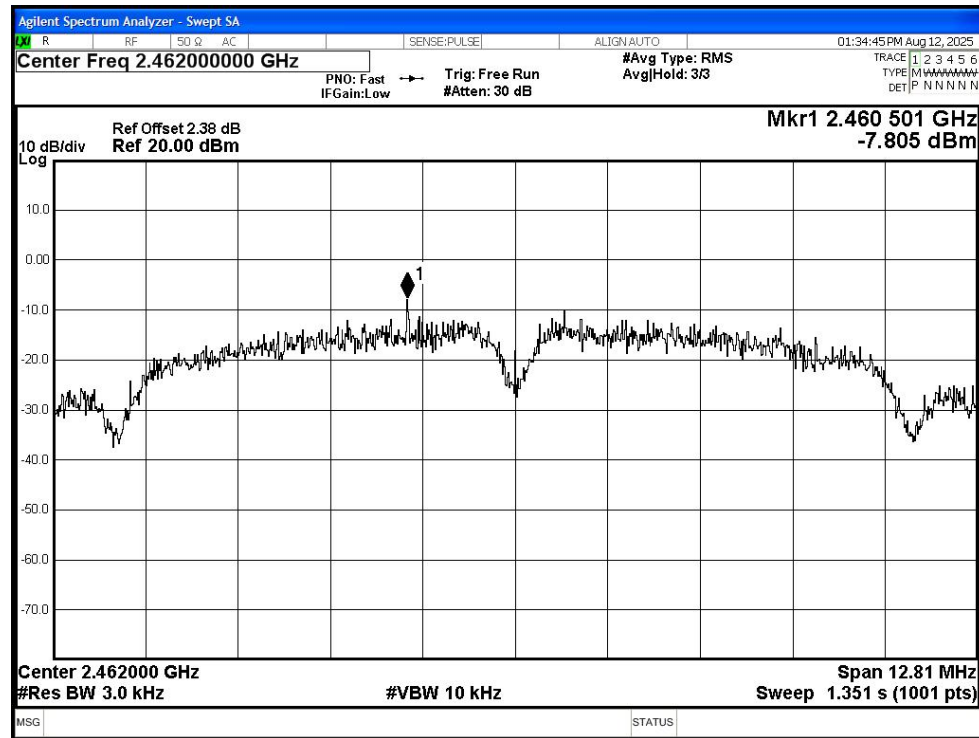
PSD NVNT b 2412MHz Ant1



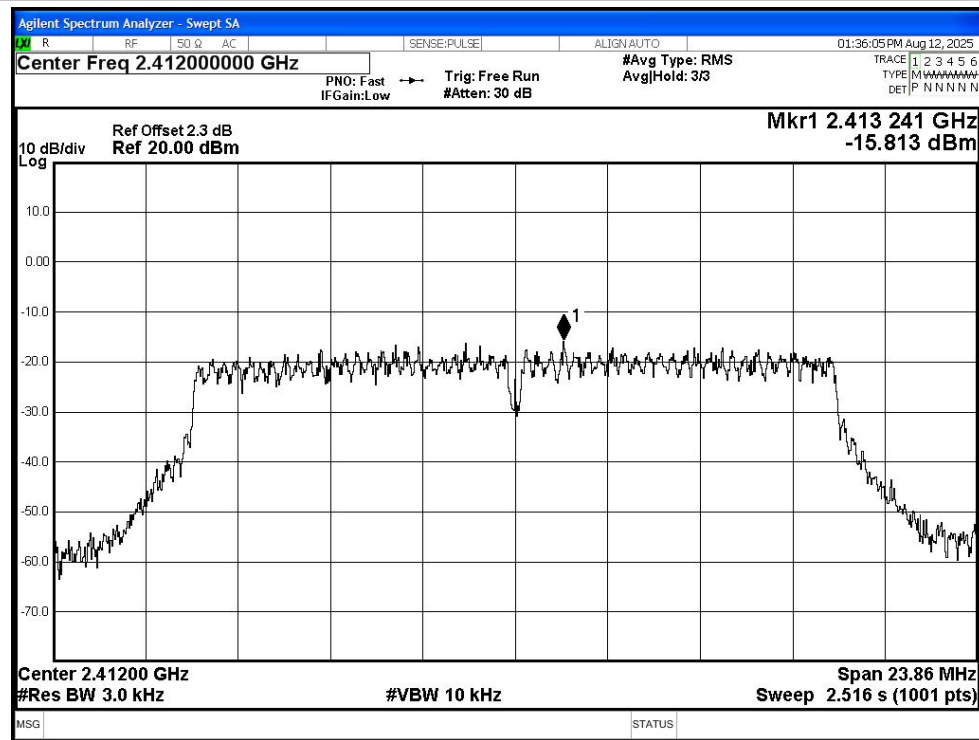
PSD NVNT b 2437MHz Ant1



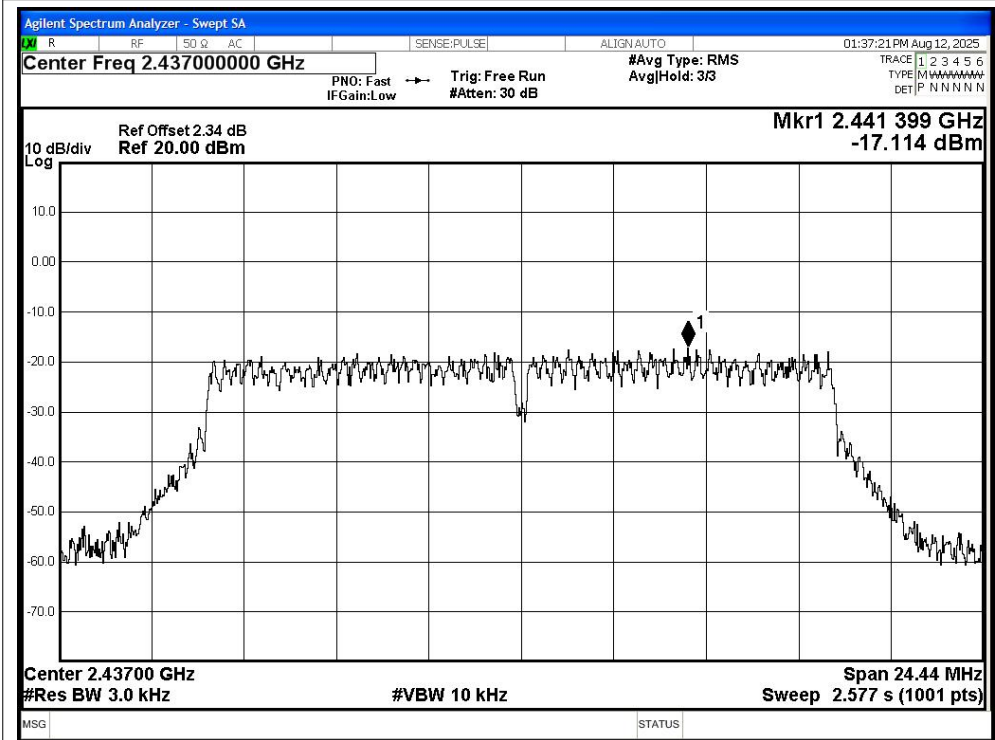
PSD NVNT b 2462MHz Ant1



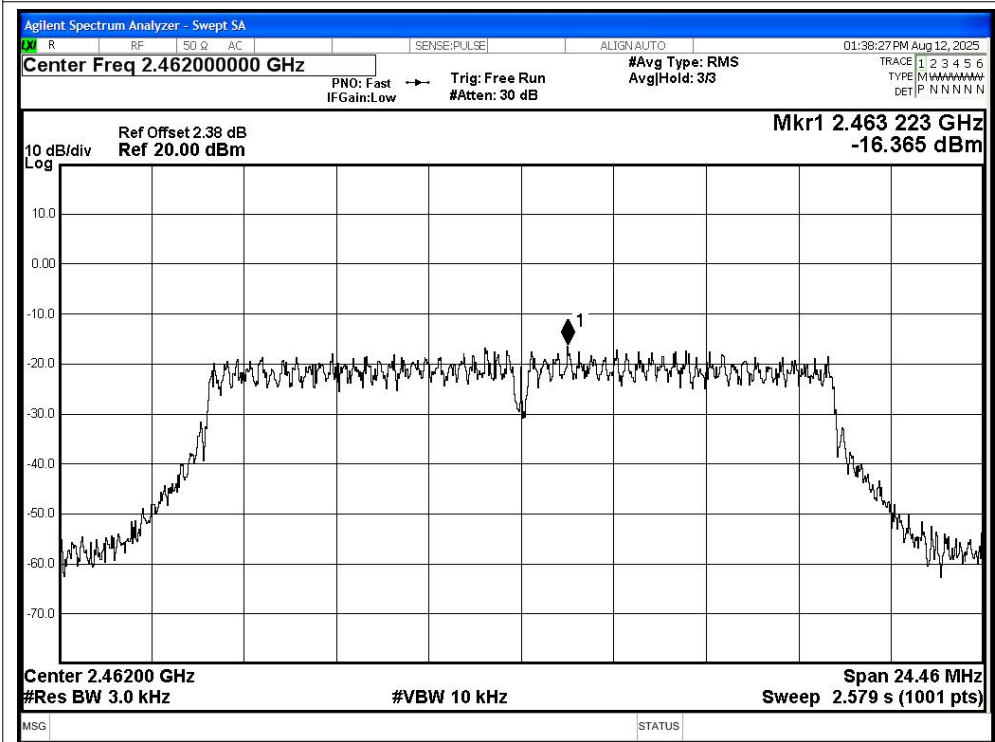
PSD NVNT g 2412MHz Ant1



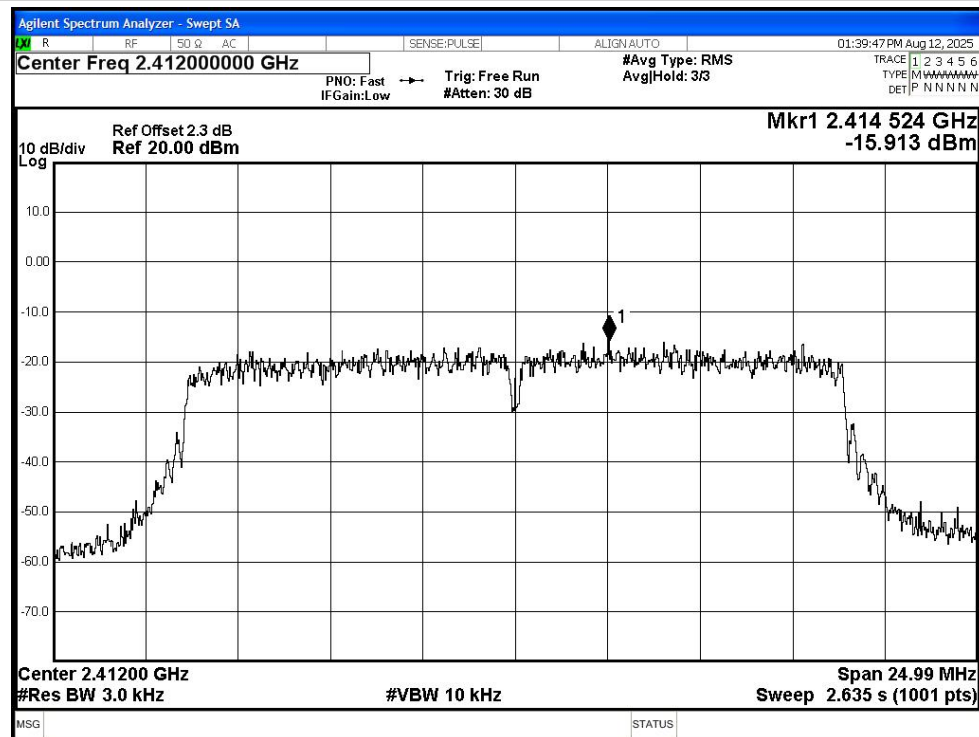
PSD NVNT g 2437MHz Ant1



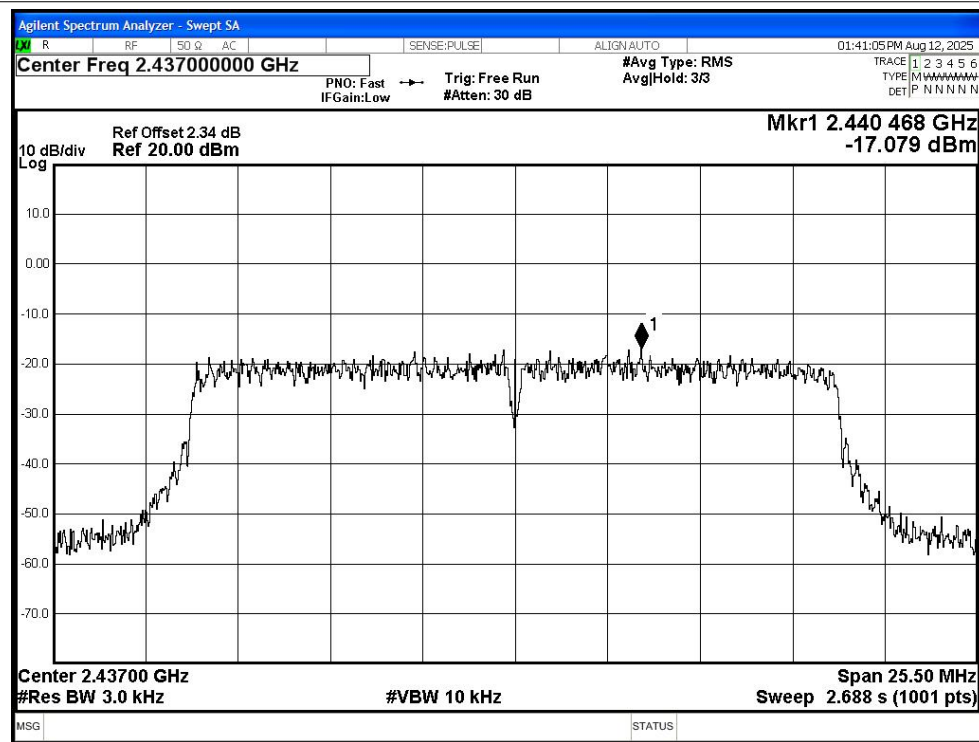
PSD NVNT g 2462MHz Ant1



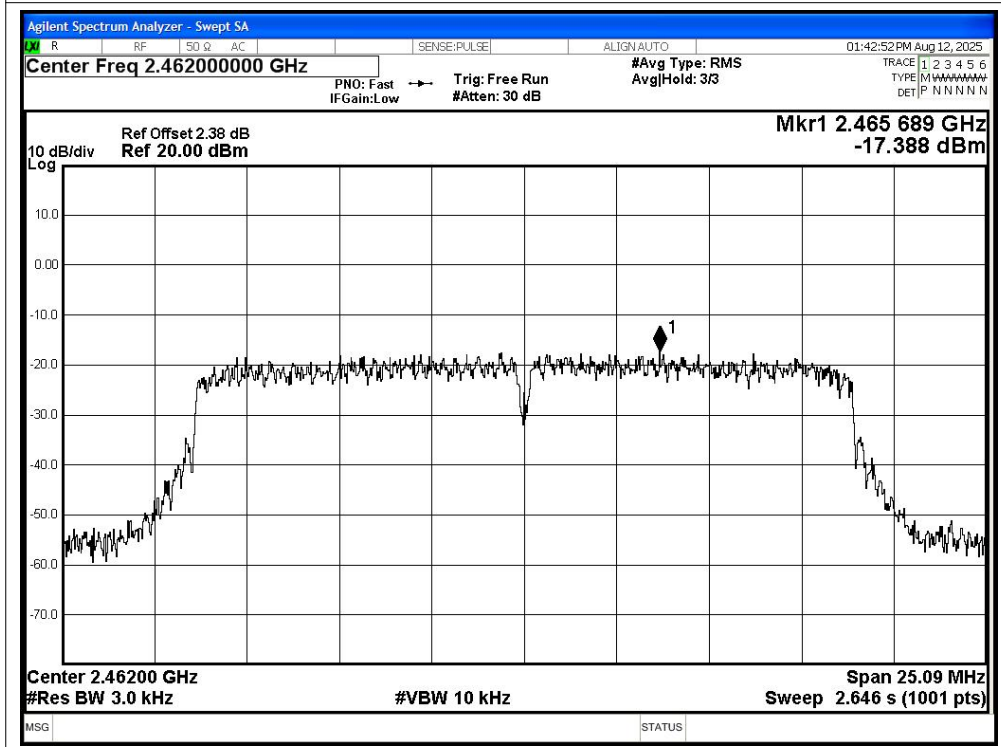
PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1



PSD NVNT n20 2462MHz Ant1

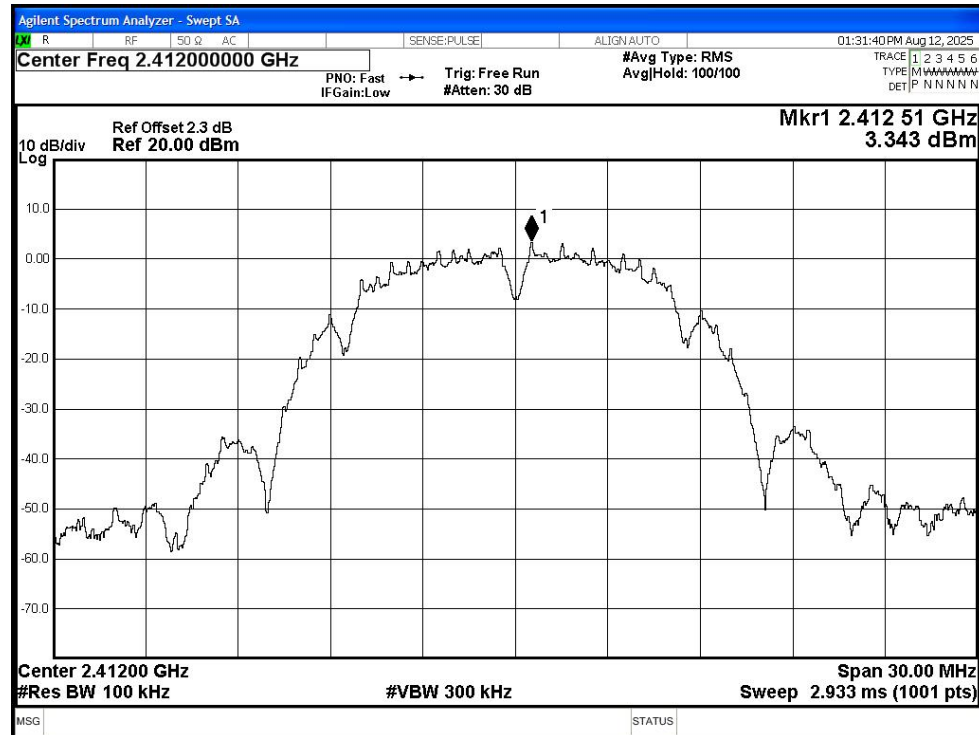


Band Edge

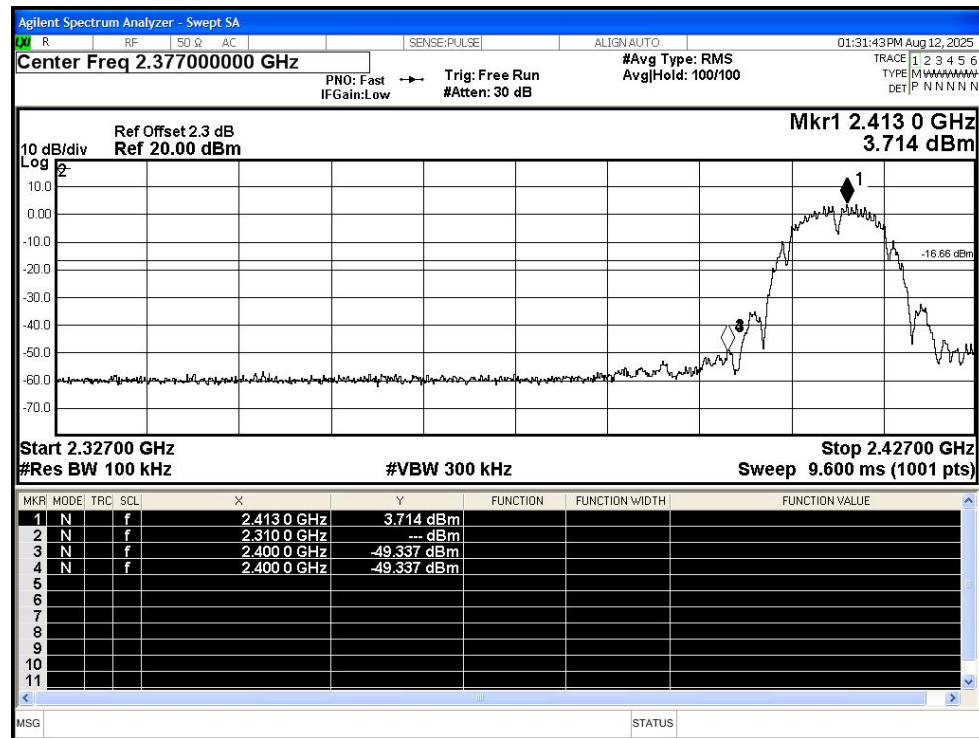
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-52.68	-20	Pass
NVNT	b	2462	Ant1	-57.39	-20	Pass
NVNT	g	2412	Ant1	-30.21	-20	Pass
NVNT	g	2462	Ant1	-43.15	-20	Pass
NVNT	n20	2412	Ant1	-32.14	-20	Pass
NVNT	n20	2462	Ant1	-40.99	-20	Pass

Test Graphs

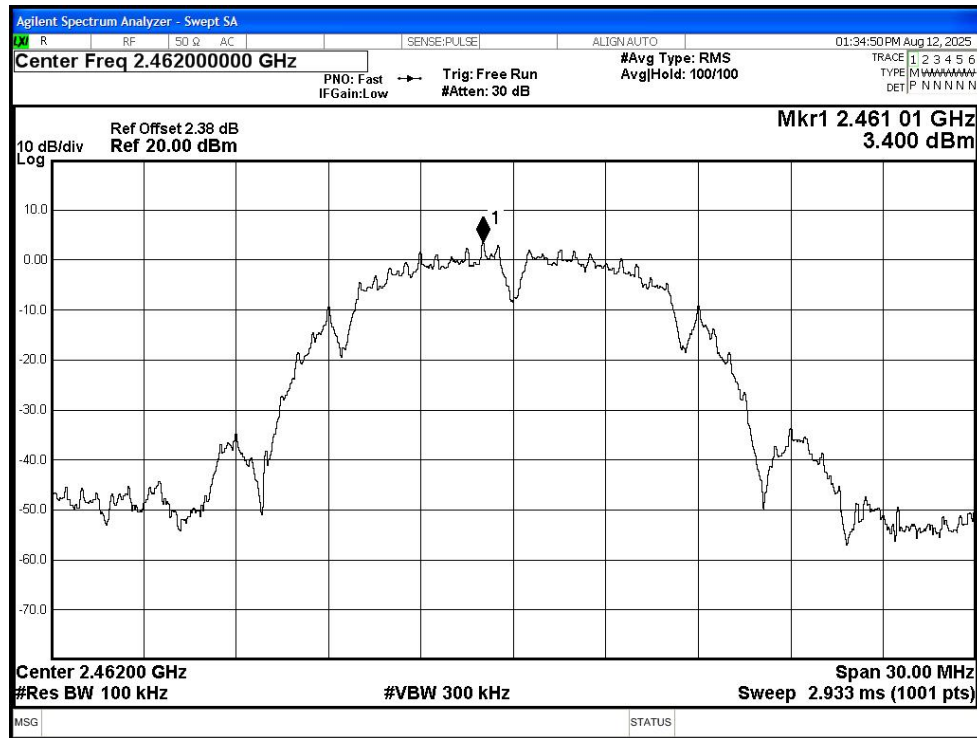
Band Edge NVNT b 2412MHz Ant1 Ref



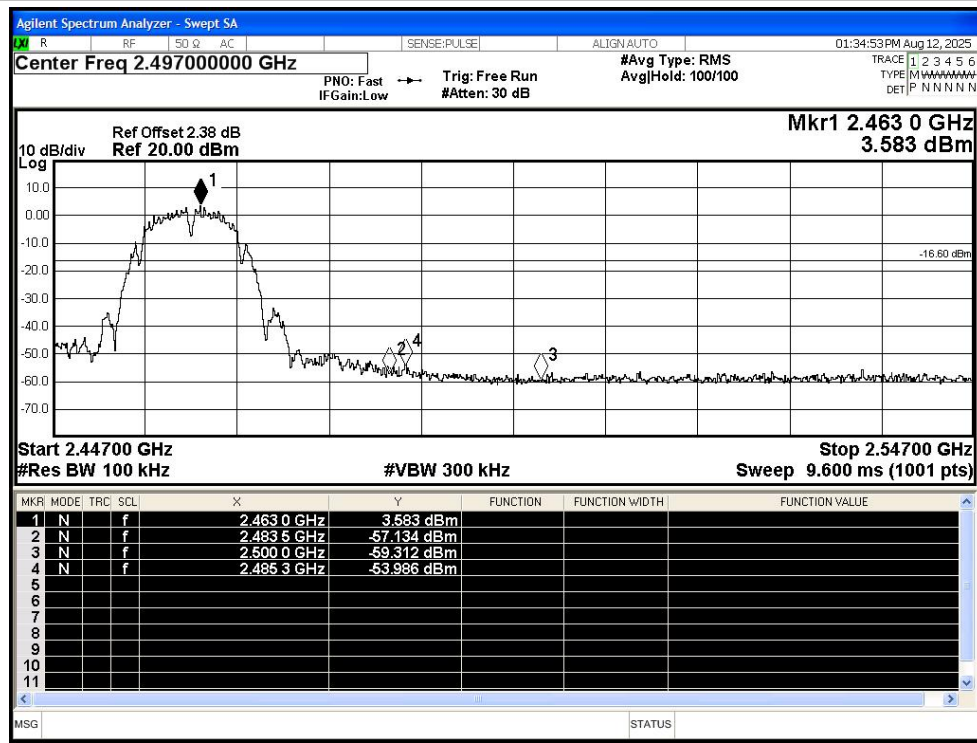
Band Edge NVNT b 2412MHz Ant1 Emission



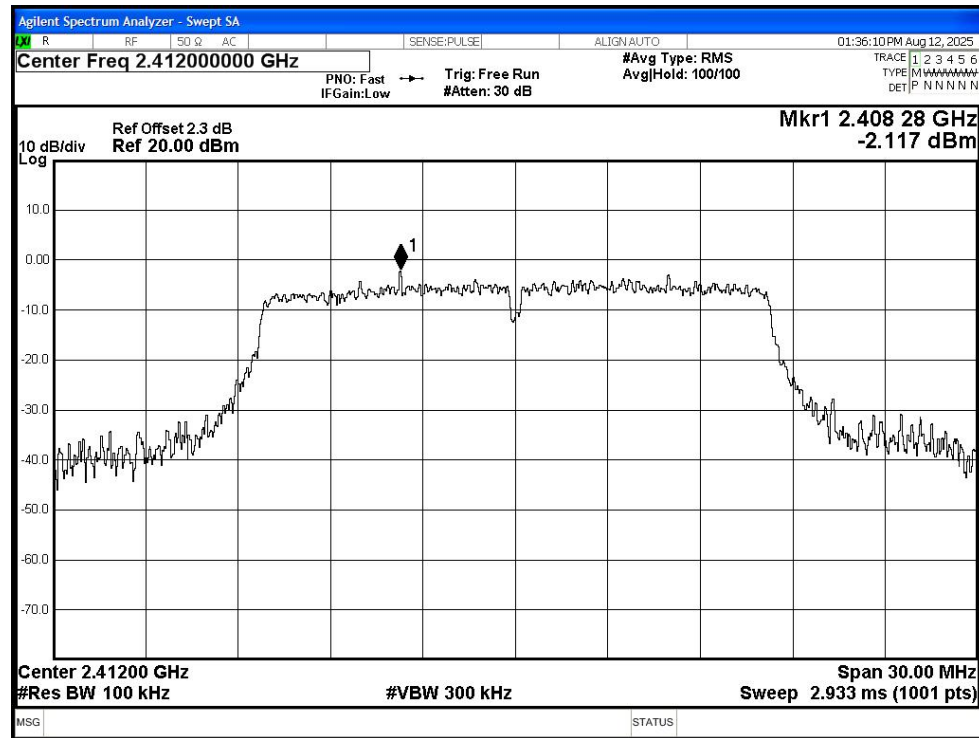
Band Edge NVNT b 2462MHz Ant1 Ref



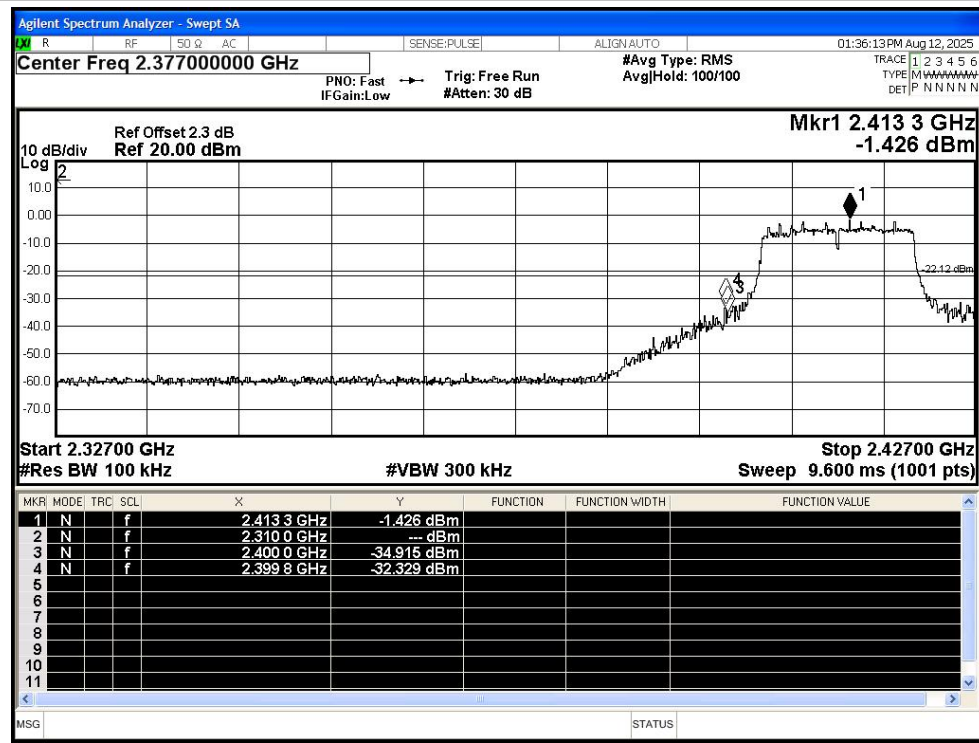
Band Edge NVNT b 2462MHz Ant1 Emission



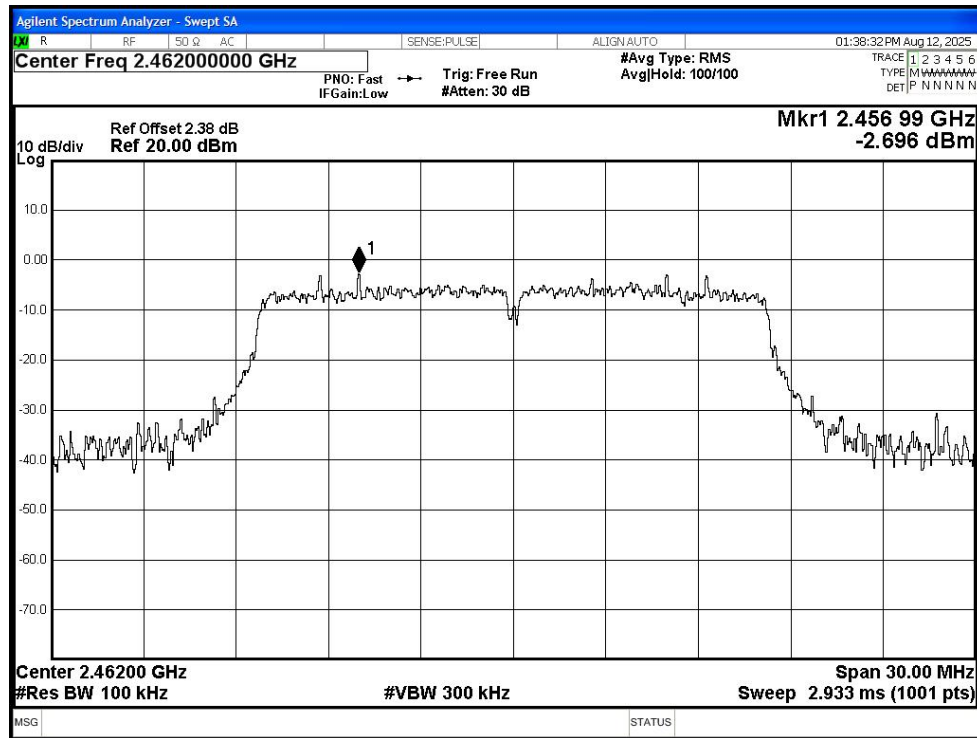
Band Edge NVNT g 2412MHz Ant1 Ref



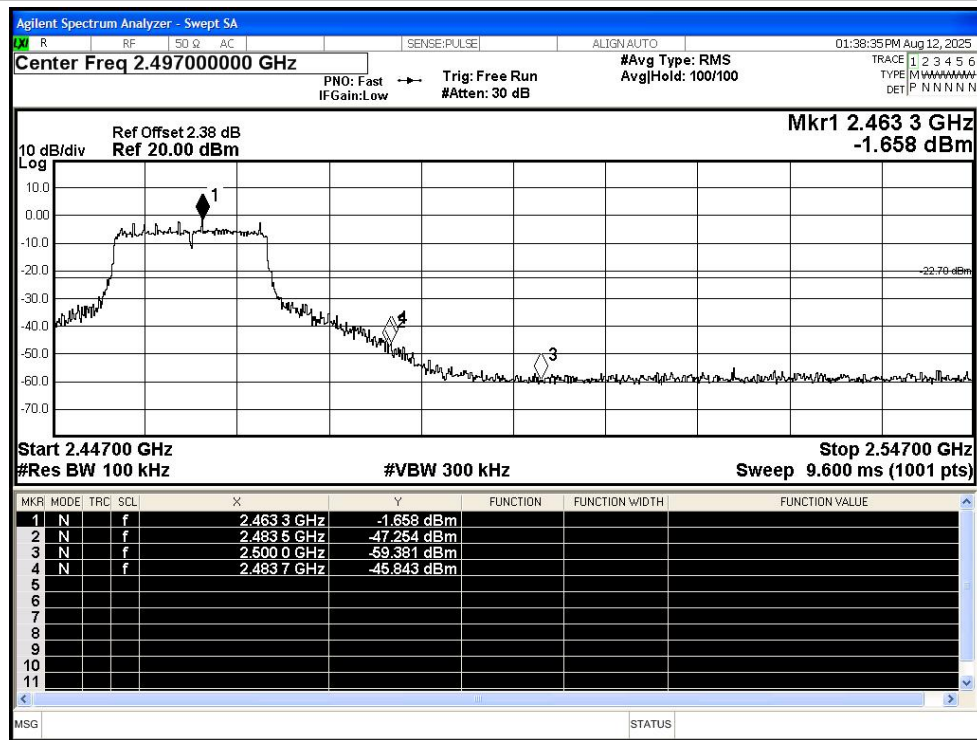
Band Edge NVNT g 2412MHz Ant1 Emission



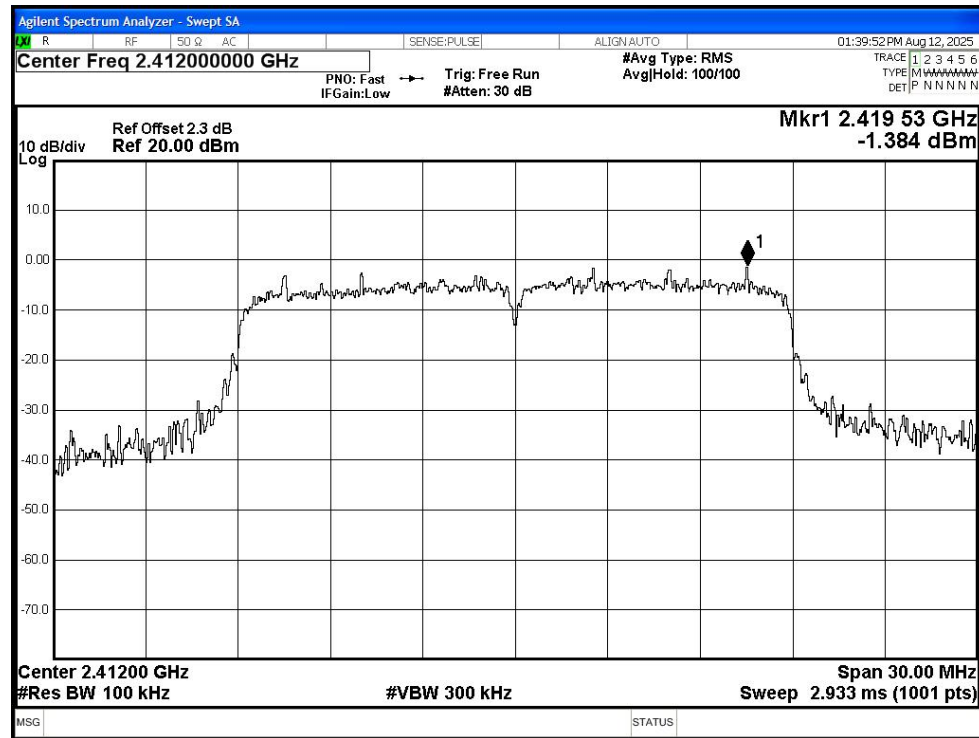
Band Edge NVNT g 2462MHz Ant1 Ref



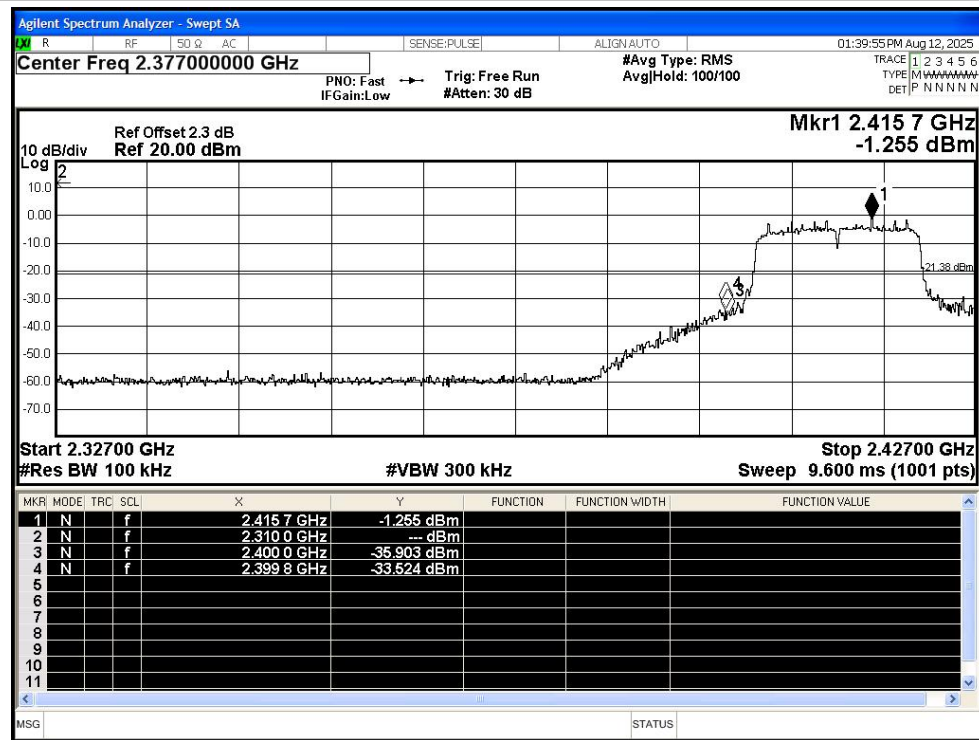
Band Edge NVNT g 2462MHz Ant1 Emission



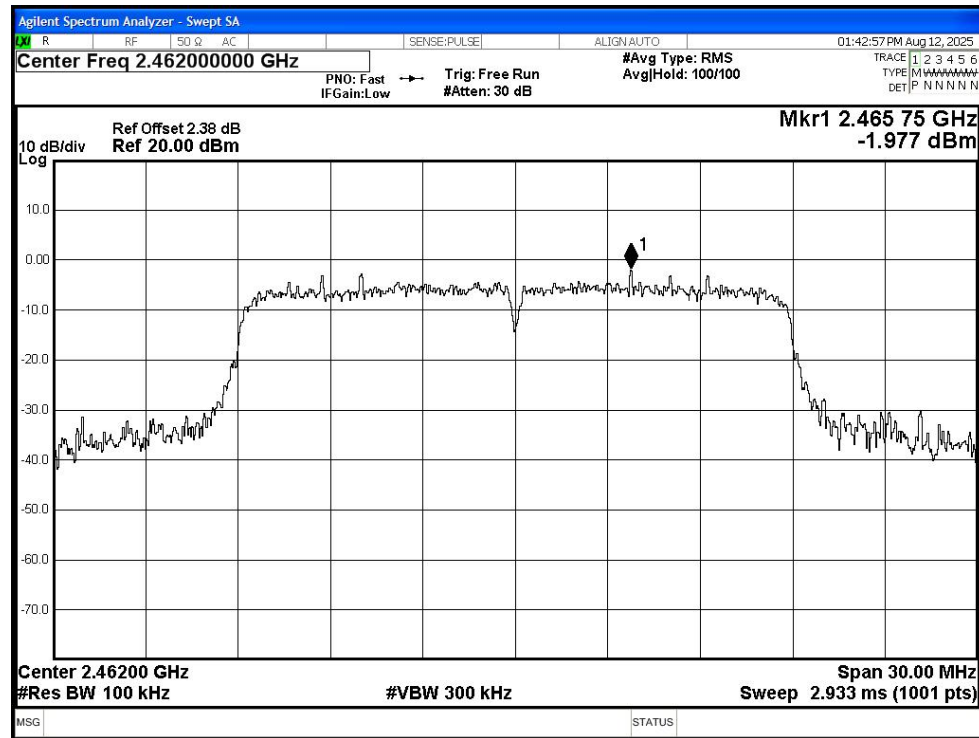
Band Edge NVNT n20 2412MHz Ant1 Ref



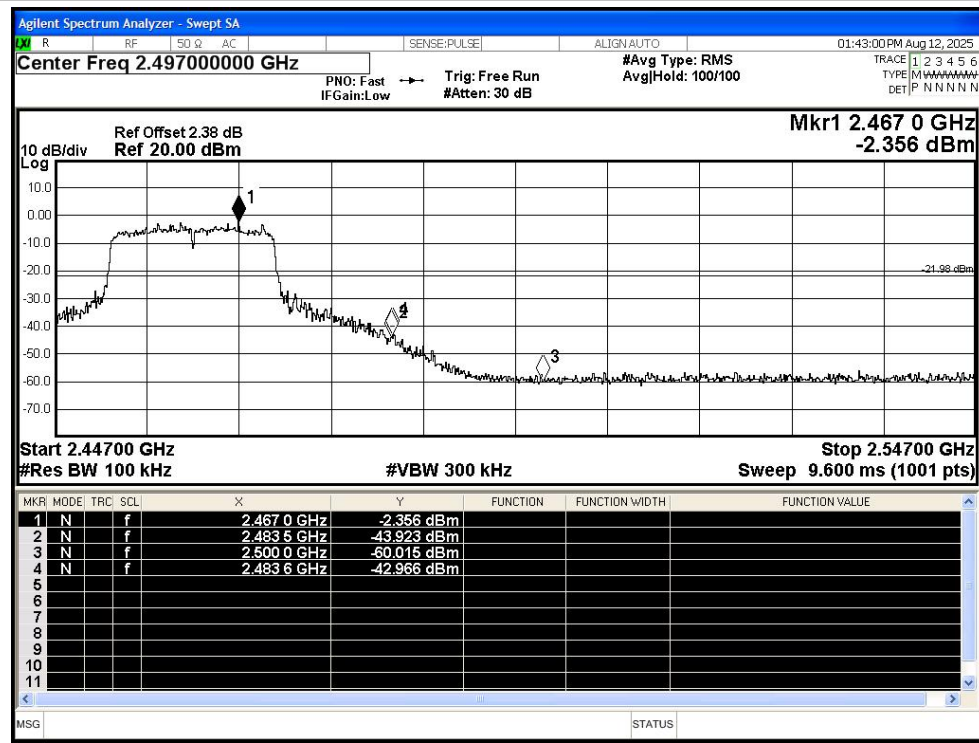
Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission

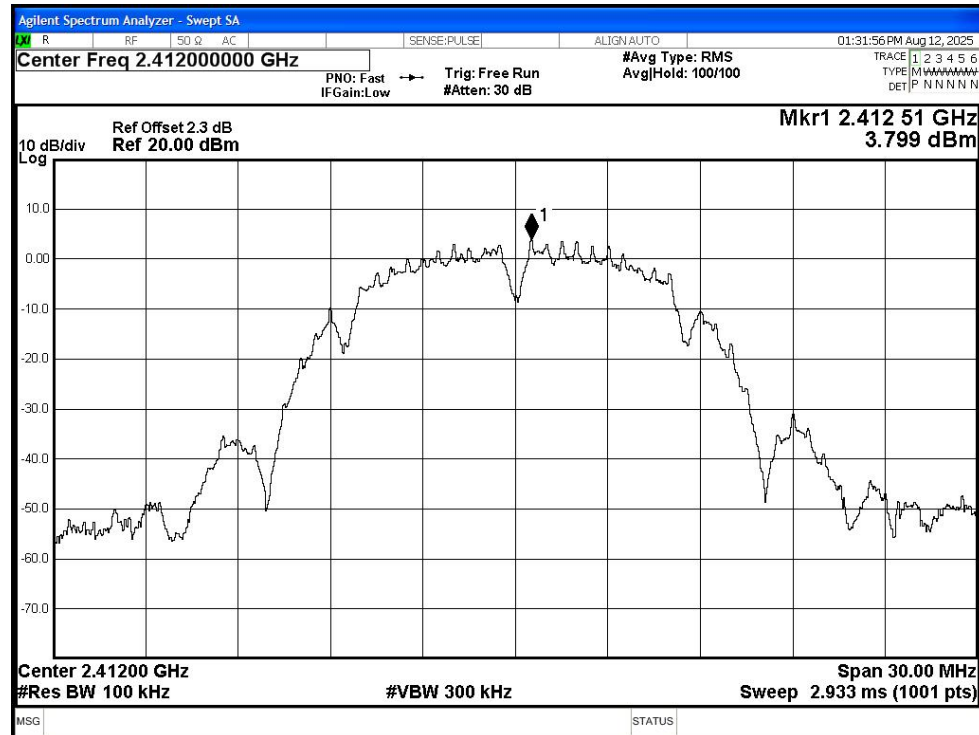


Conducted RF Spurious Emission

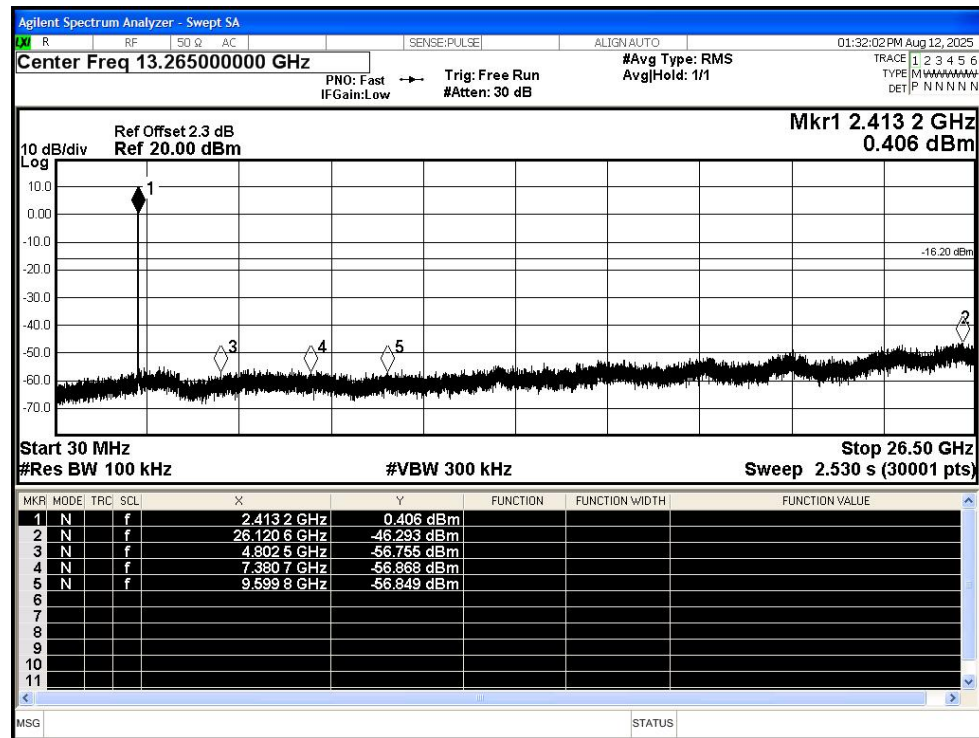
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-50.09	-20	Pass
NVNT	b	2437	Ant1	-48.95	-20	Pass
NVNT	b	2462	Ant1	-48.91	-20	Pass
NVNT	g	2412	Ant1	-44.61	-20	Pass
NVNT	g	2437	Ant1	-43.66	-20	Pass
NVNT	g	2462	Ant1	-43.48	-20	Pass
NVNT	n20	2412	Ant1	-44.65	-20	Pass
NVNT	n20	2437	Ant1	-43.86	-20	Pass
NVNT	n20	2462	Ant1	-44.05	-20	Pass

Test Graphs

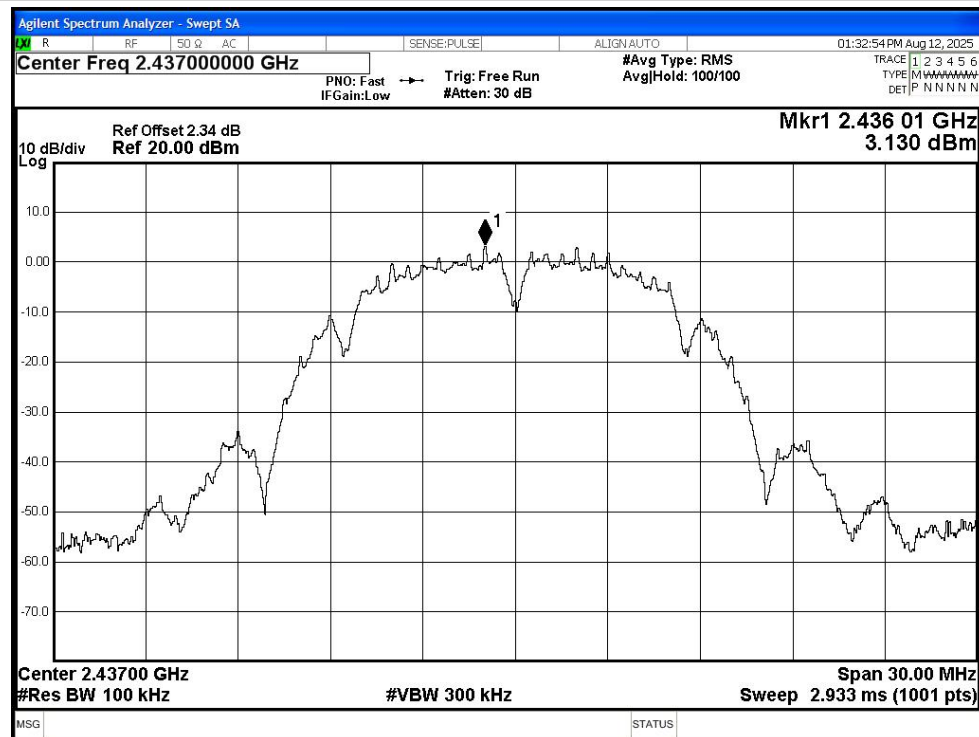
Tx. Spurious NVNT b 2412MHz Ant1 Ref



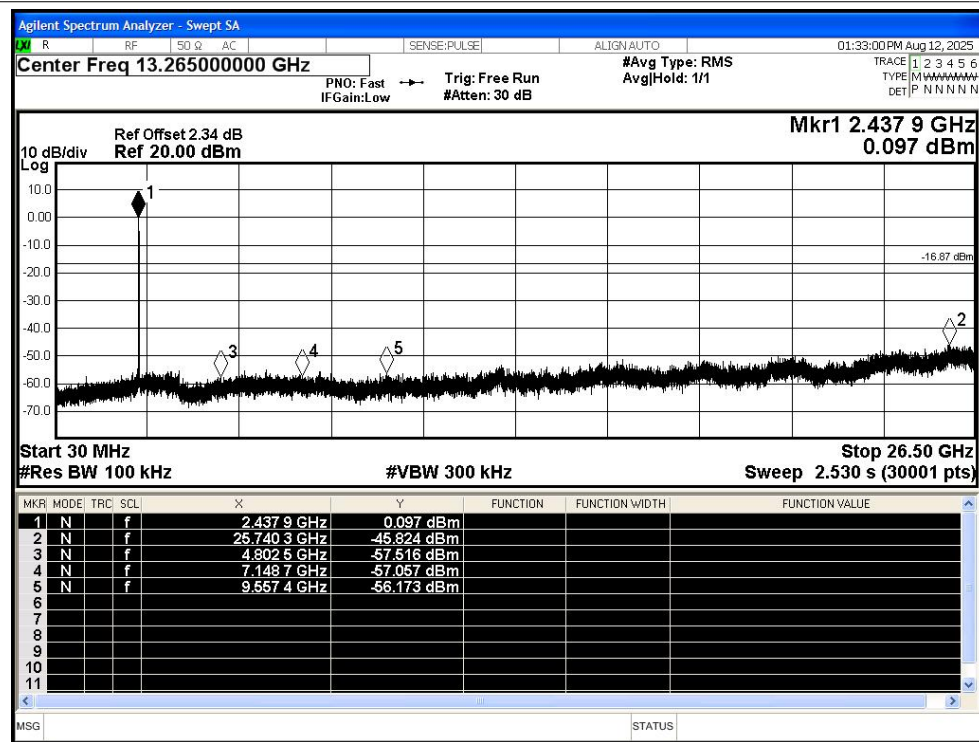
Tx. Spurious NVNT b 2412MHz Ant1 Emission



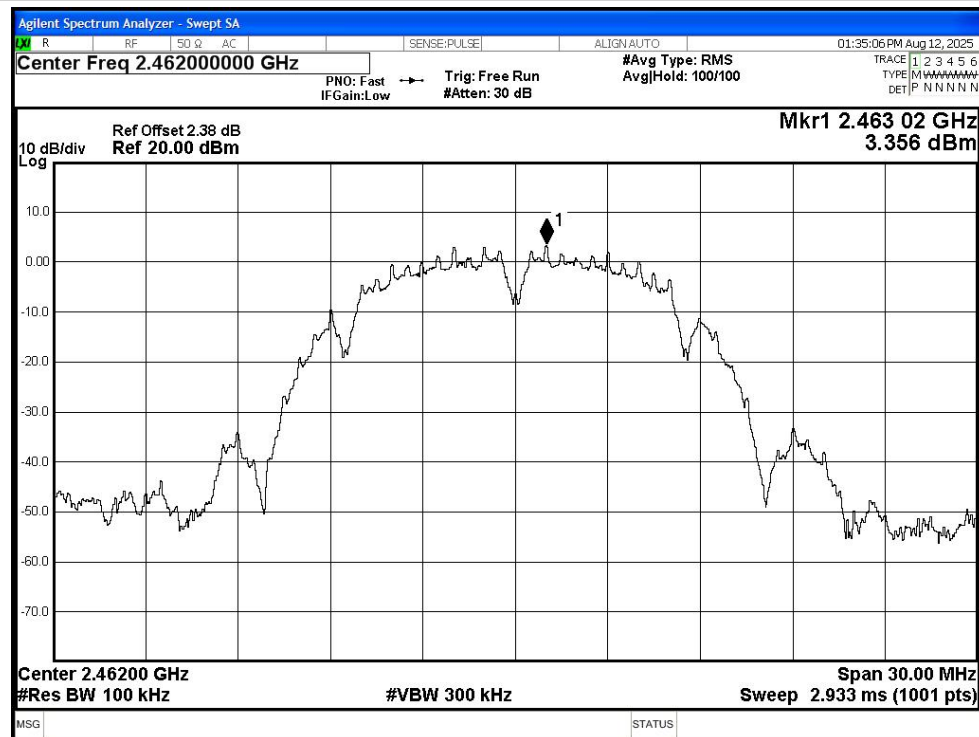
Tx. Spurious NVNT b 2437MHz Ant1 Ref



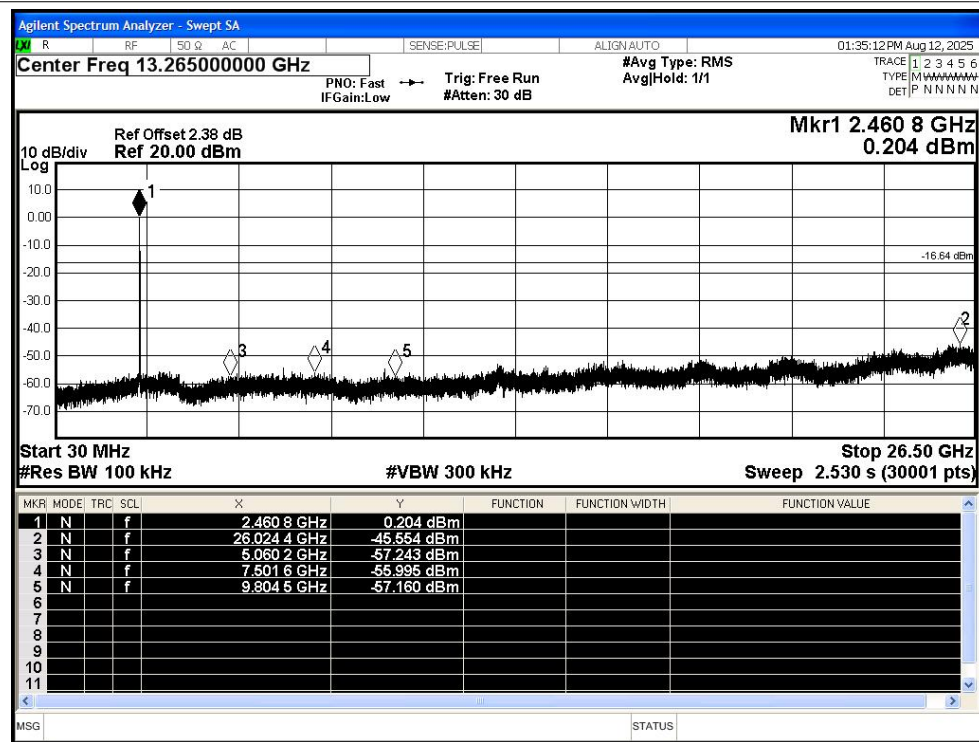
Tx. Spurious NVNT b 2437MHz Ant1 Emission



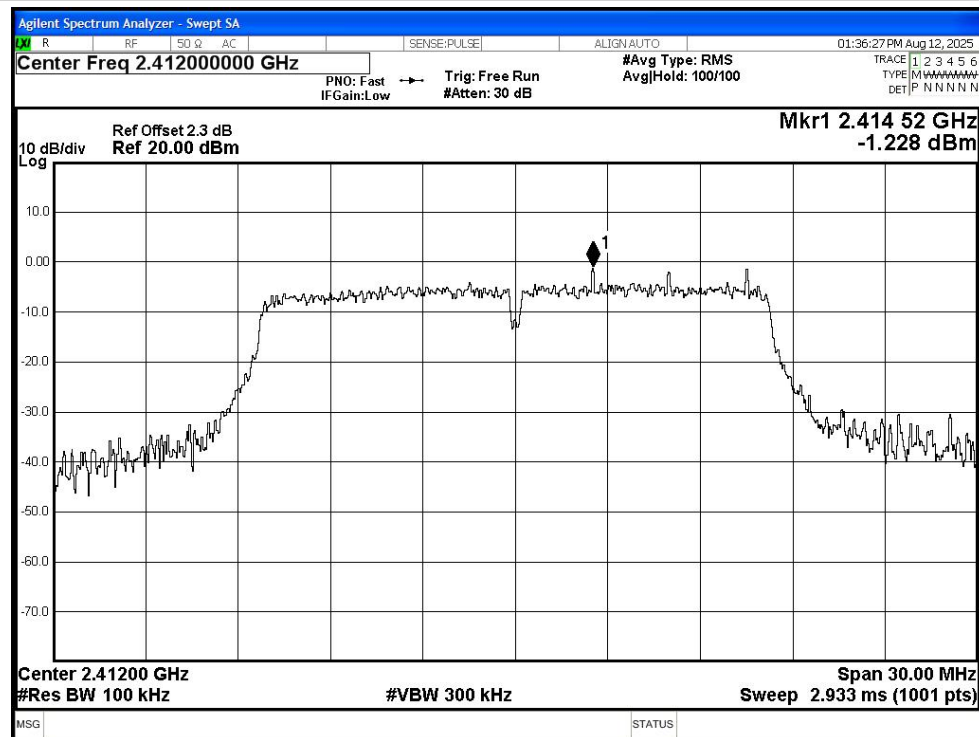
Tx. Spurious NVNT b 2462MHz Ant1 Ref



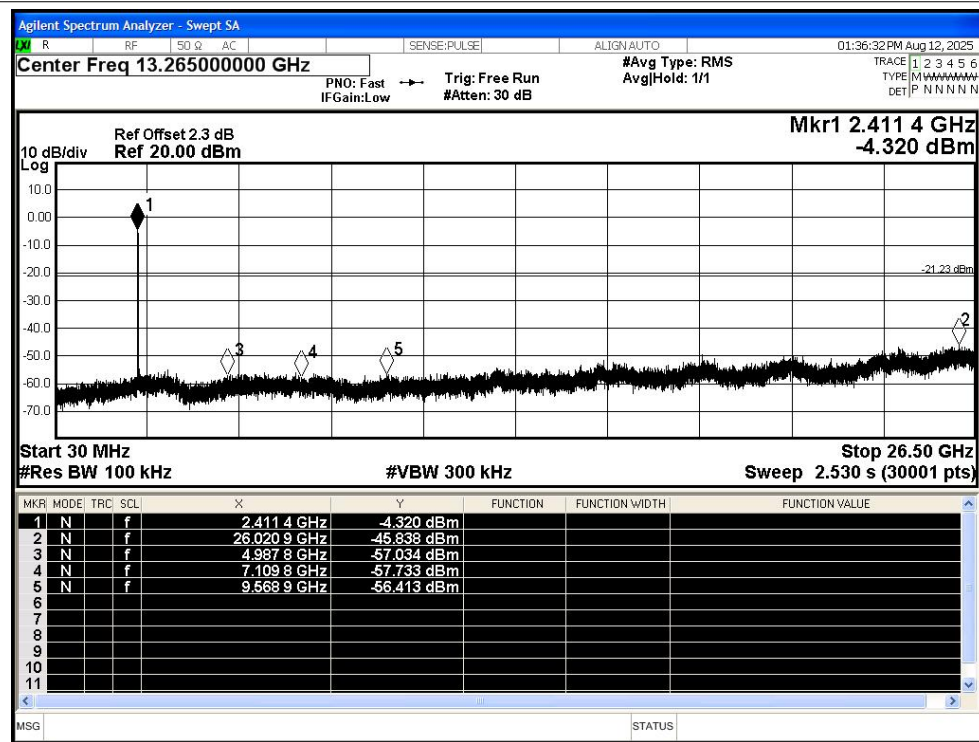
Tx. Spurious NVNT b 2462MHz Ant1 Emission



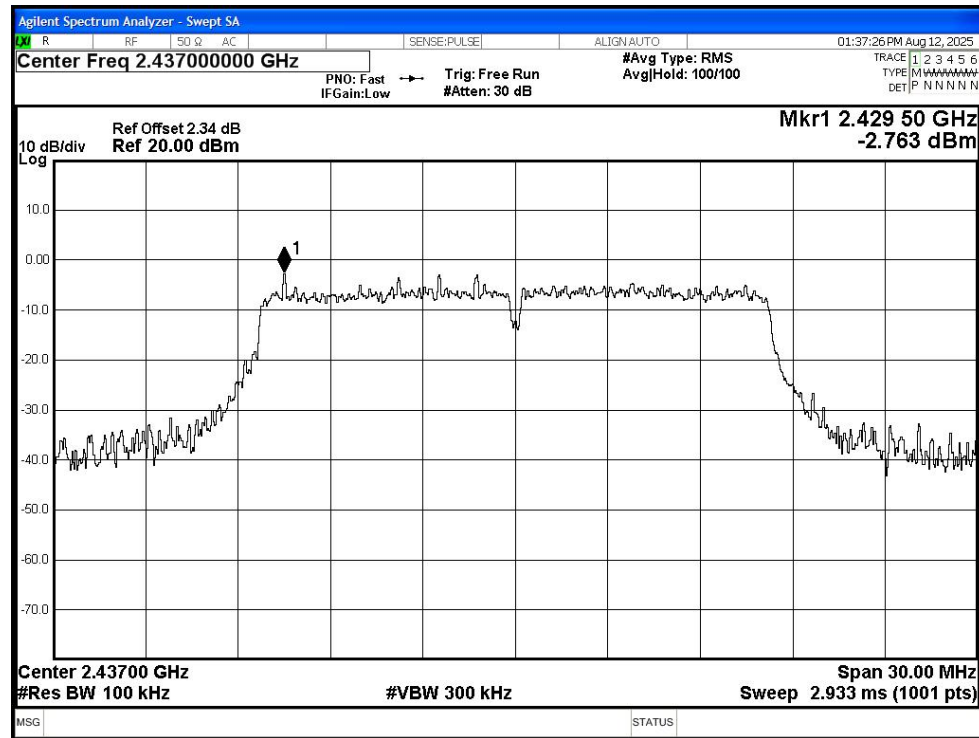
Tx. Spurious NVNT g 2412MHz Ant1 Ref



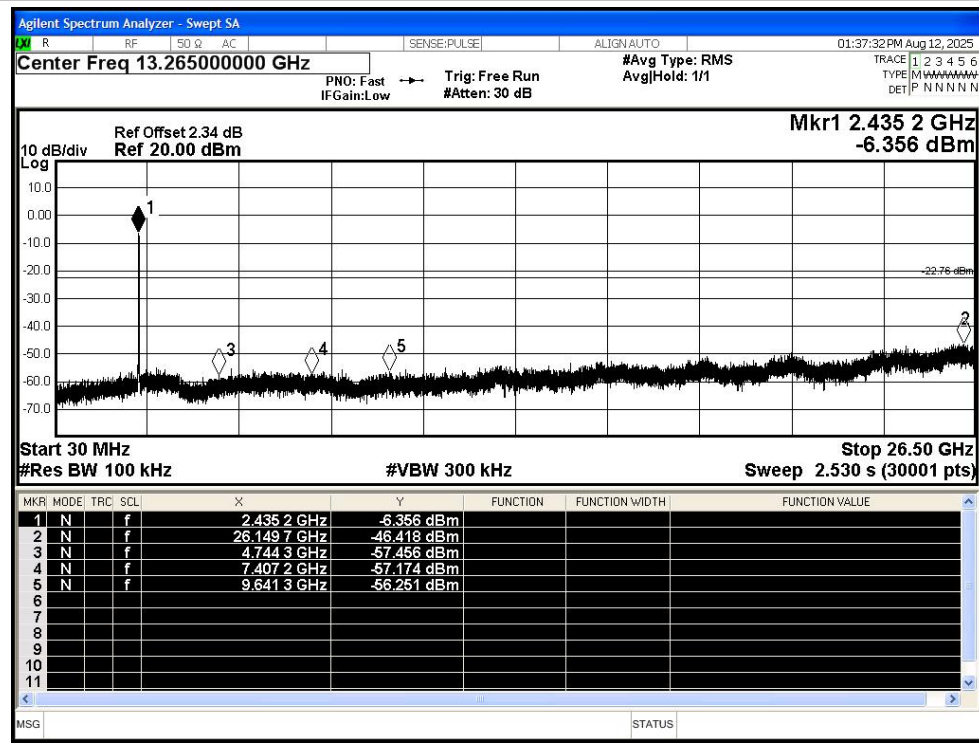
Tx. Spurious NVNT g 2412MHz Ant1 Emission



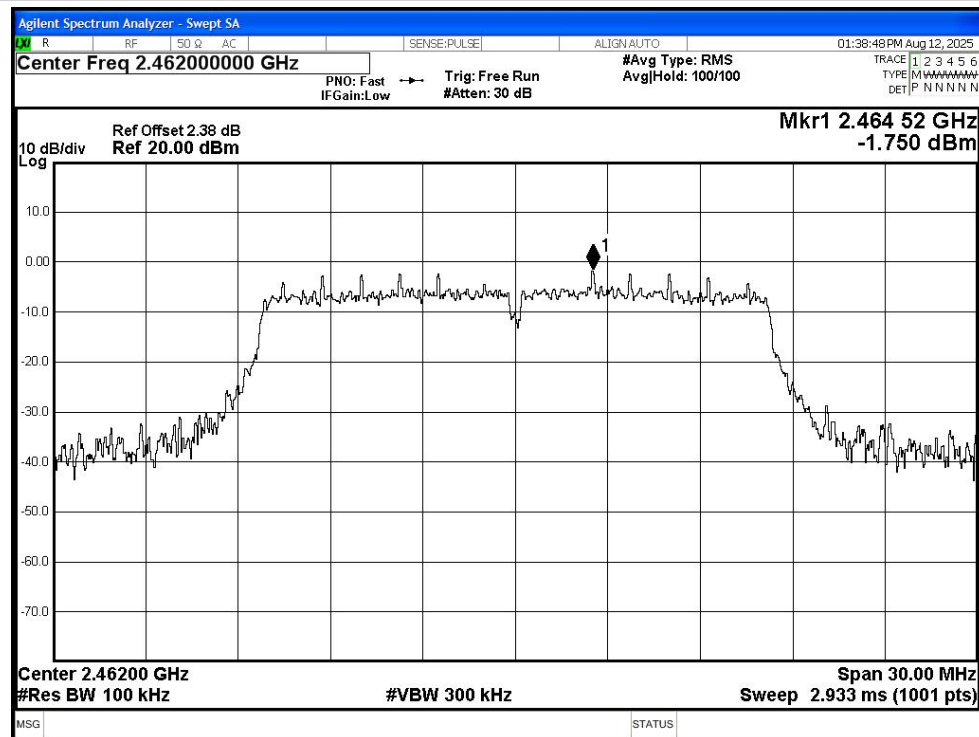
Tx. Spurious NVNT g 2437MHz Ant1 Ref



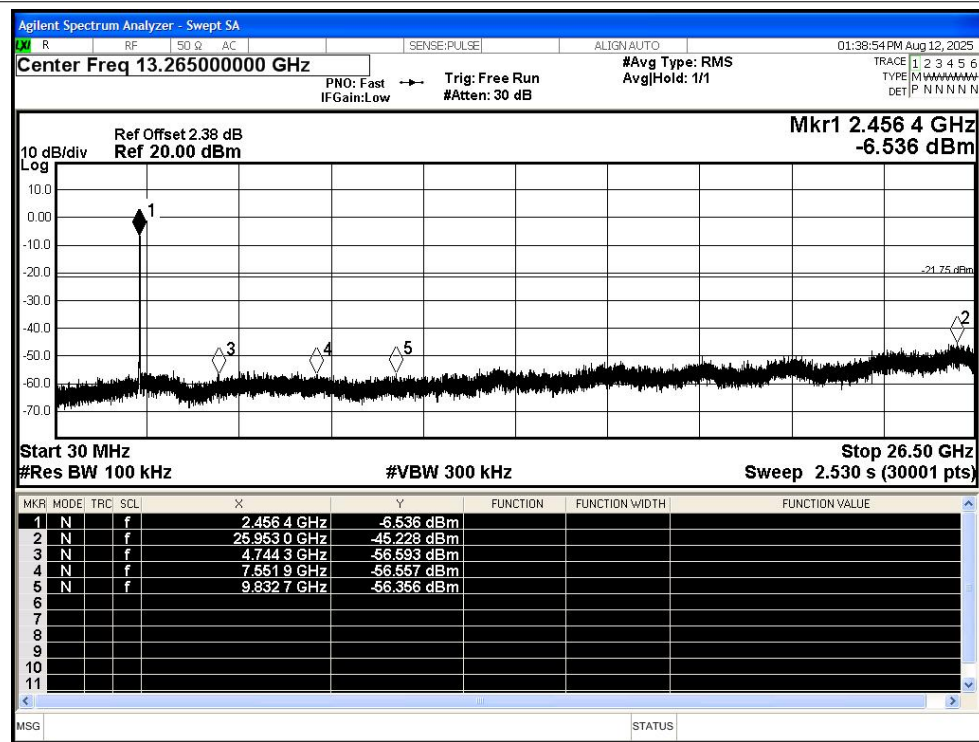
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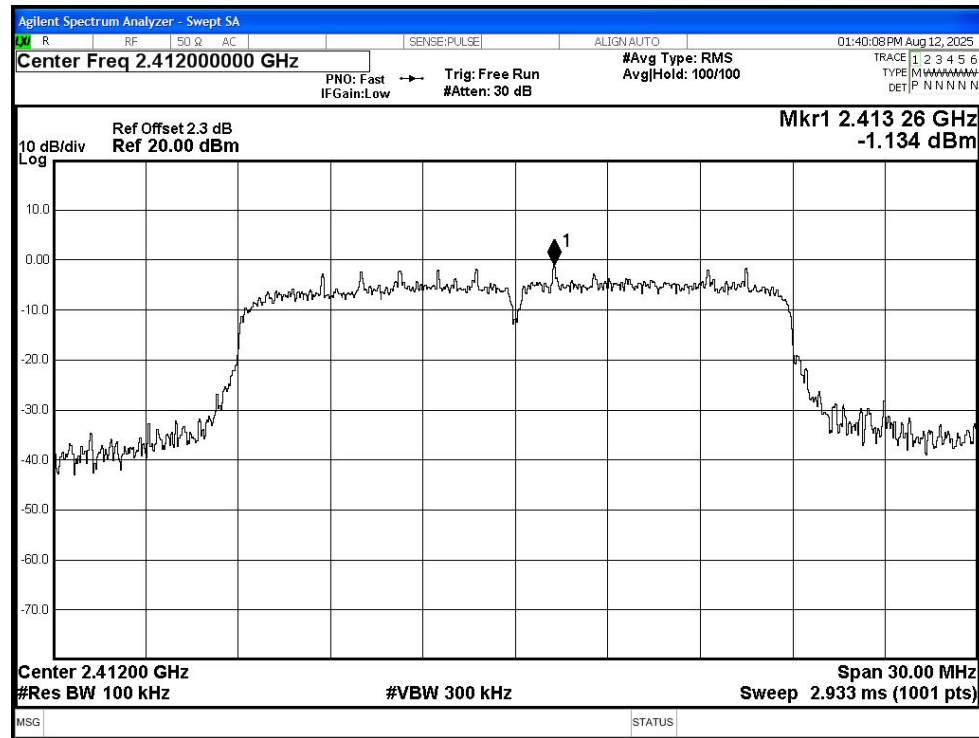
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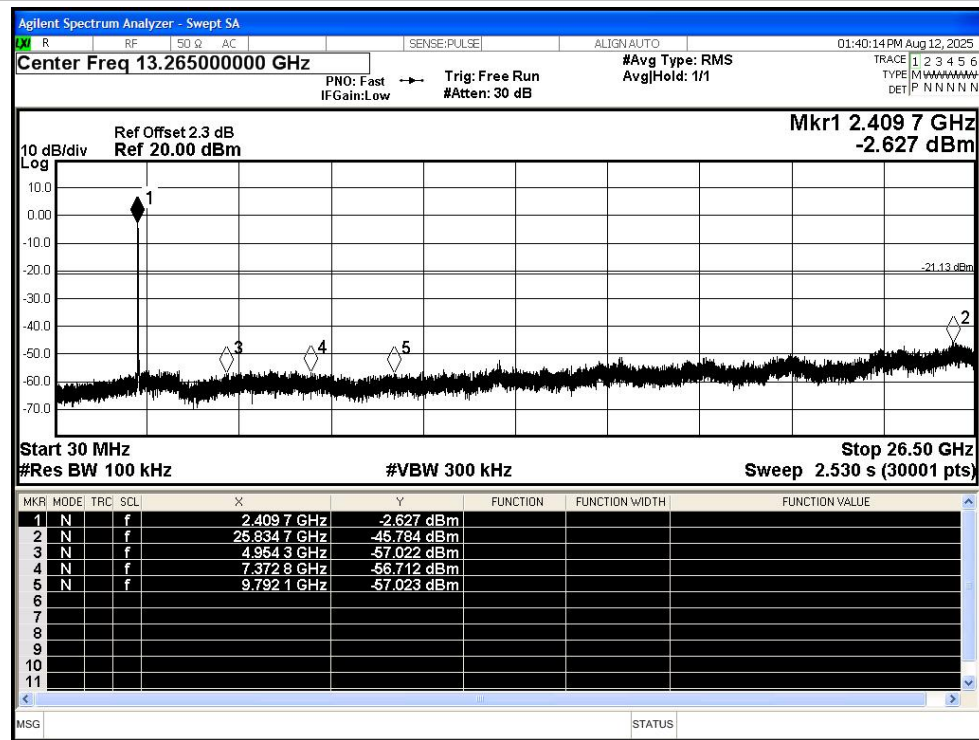
Tx. Spurious NVNT g 2462MHz Ant1 Emission



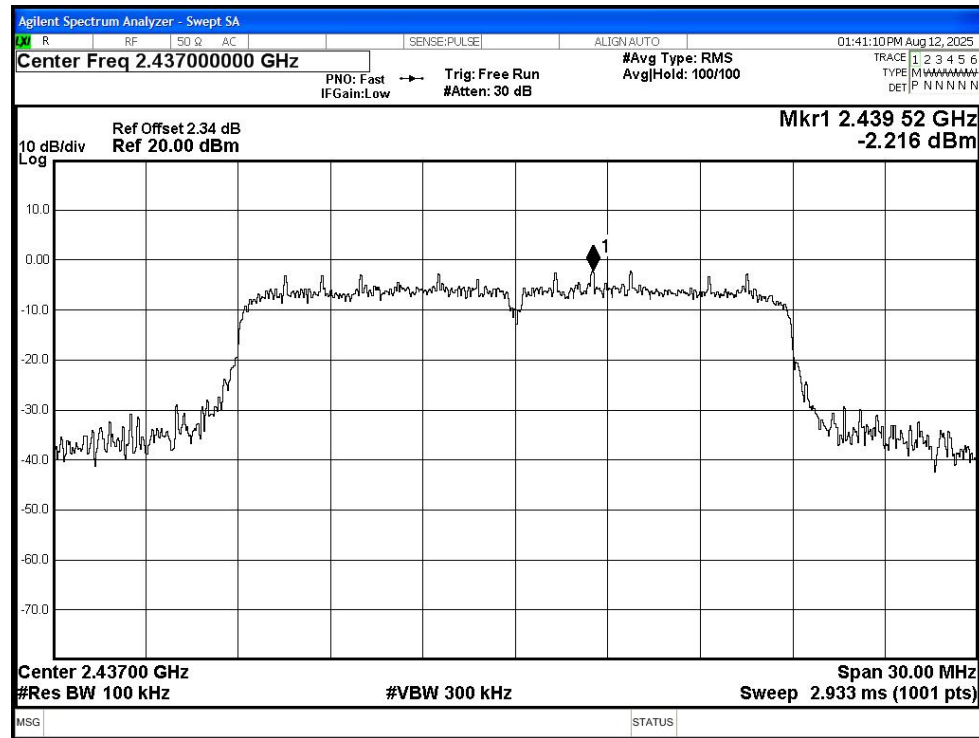
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



Tx. Spurious NVNT n20 2412MHz Ant1 Emission



Tx. Spurious NVNT n20 2437MHz Ant1 Ref



Tx. Spurious NVNT n20 2437MHz Ant1 Emission

