

# RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
<b>Product Name:</b>	2.4GHz Digital Wireless Video Baby Camera
<b>Test Model:</b>	HB6589L
<b>Sample ID:</b>	HC-C-202403-0283-03-01-2#
Environmental Conditions	
<b>Temperature:</b>	23.8°C
<b>Relative Humidity:</b>	48%
<b>Test Voltage:</b>	AC 120V
<b>Test Engineer:</b>	ZKN ZHOU
Note: For a more detailed features description, please refer to the report TBR-C-202403-0283-23 The report only show the worst case data.	

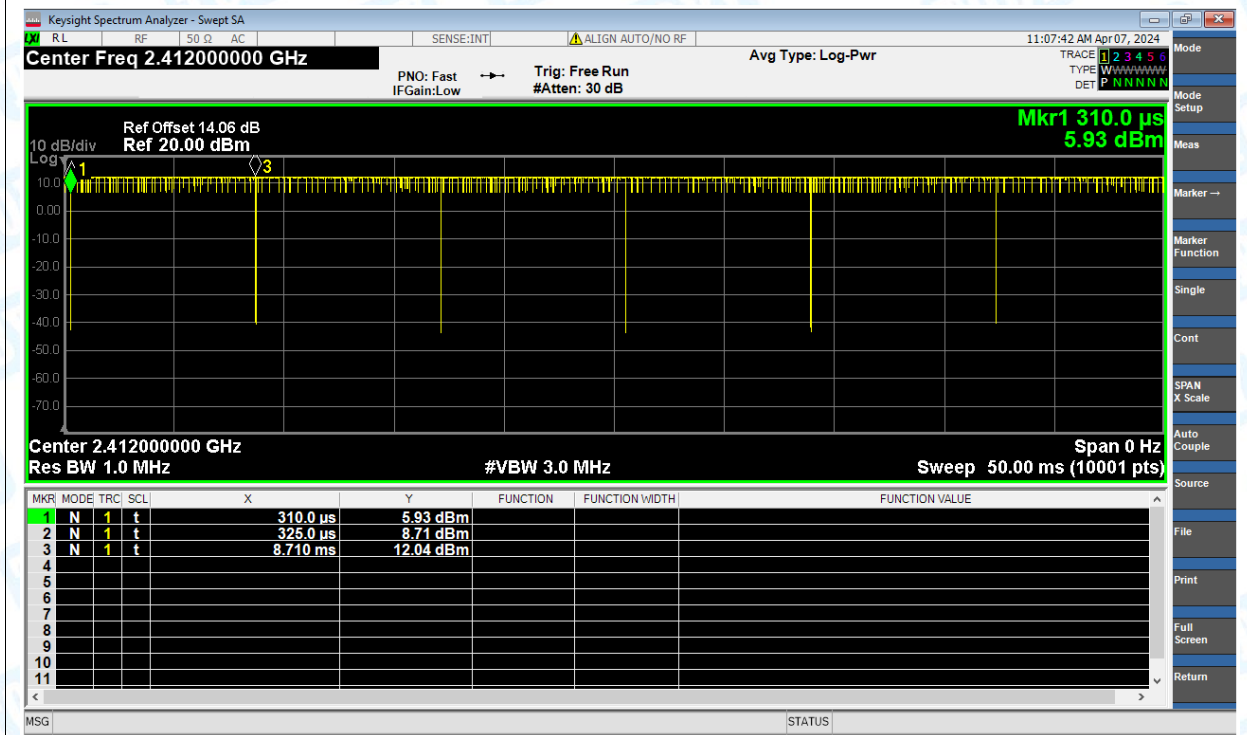


## 1. Duty Cycle

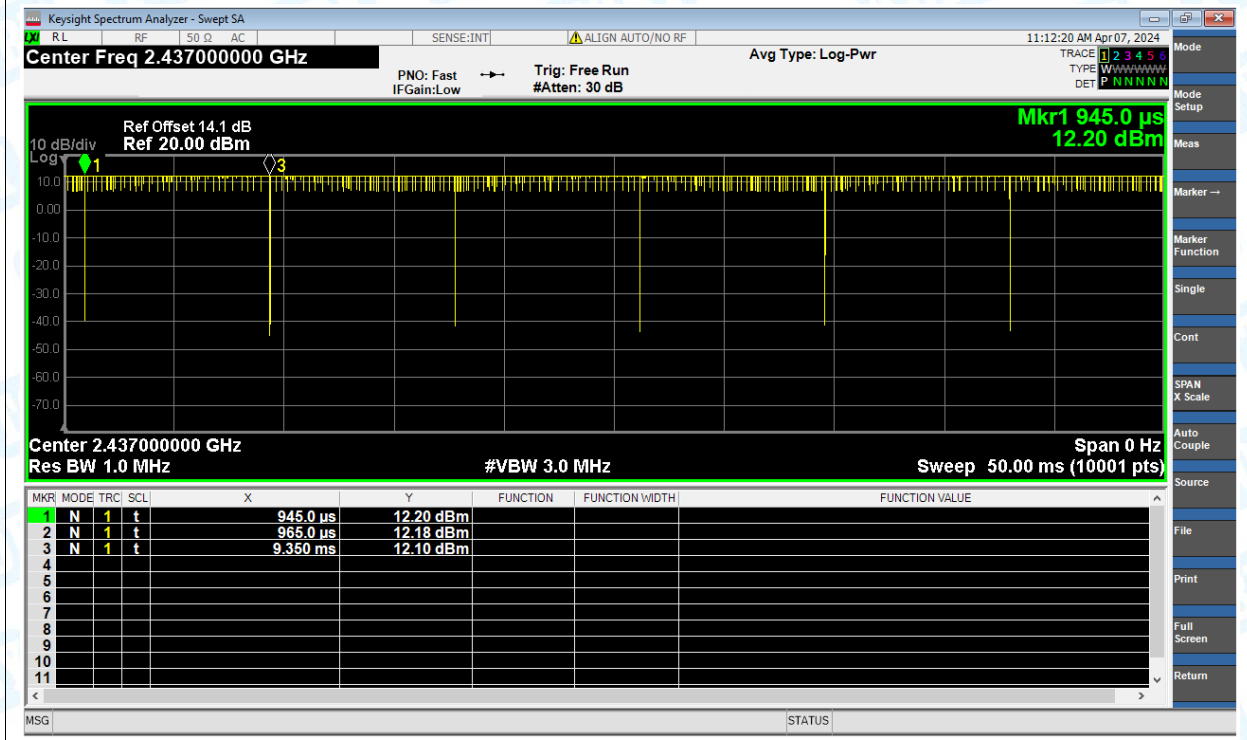
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.82	0.01	0.12
NVNT	b	2437	Ant1	99.76	0.01	0.12
NVNT	b	2462	Ant1	99.82	0.01	0.12
NVNT	g	2412	Ant1	98.94	0.05	0.72
NVNT	g	2437	Ant1	98.58	0.06	0.72
NVNT	g	2462	Ant1	98.58	0.06	0.72

Test Graphs

Duty Cycle NVNT b 2412MHz Ant1

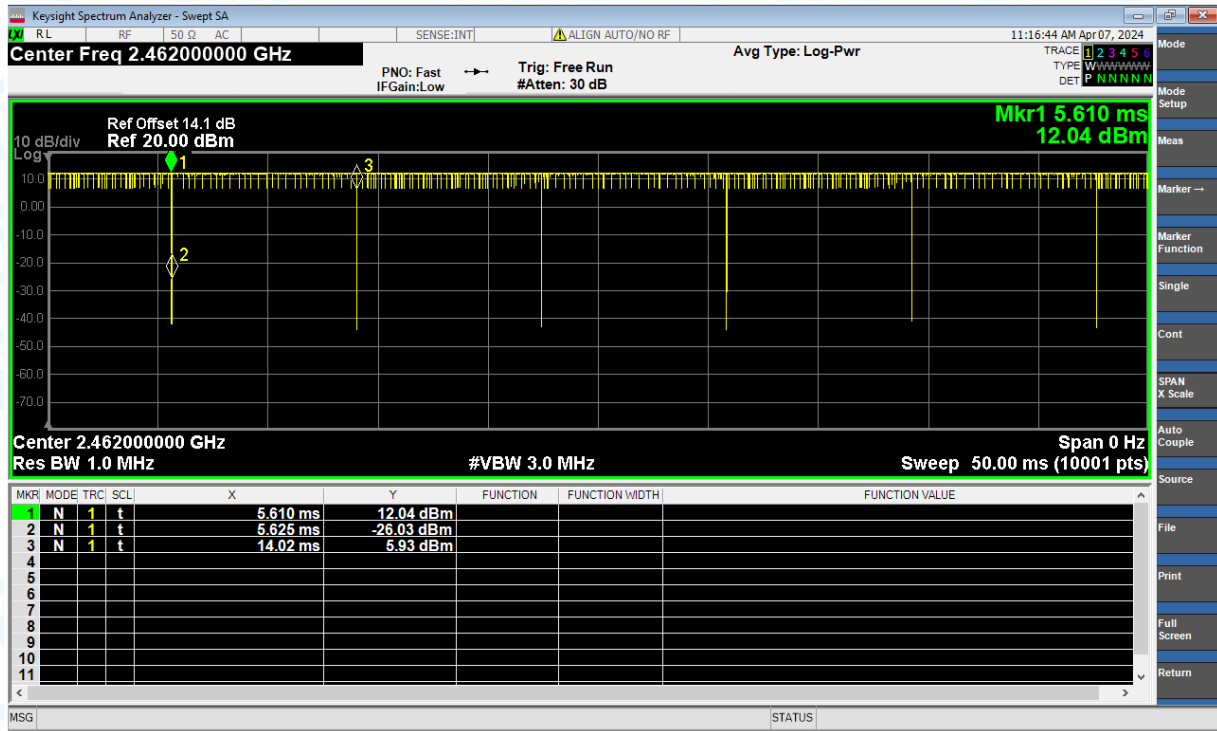


Duty Cycle NVNT b 2437MHz Ant1

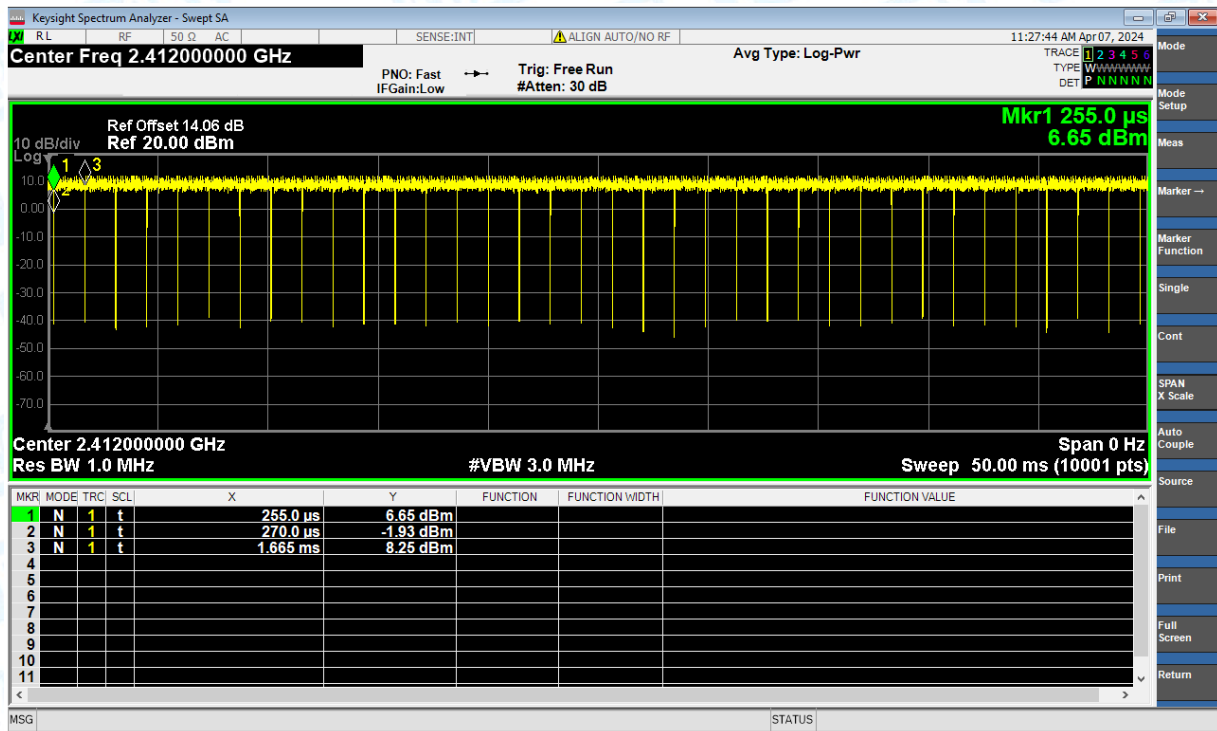




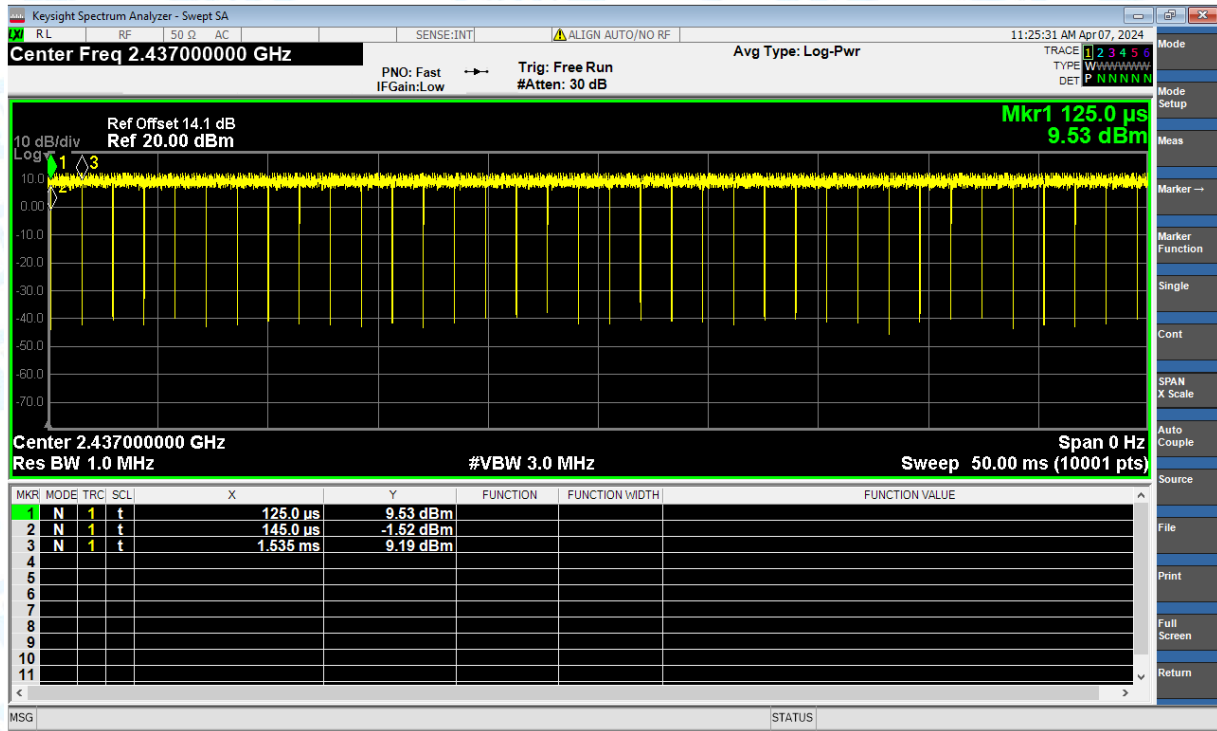
Duty Cycle NVNT b 2462MHz Ant1



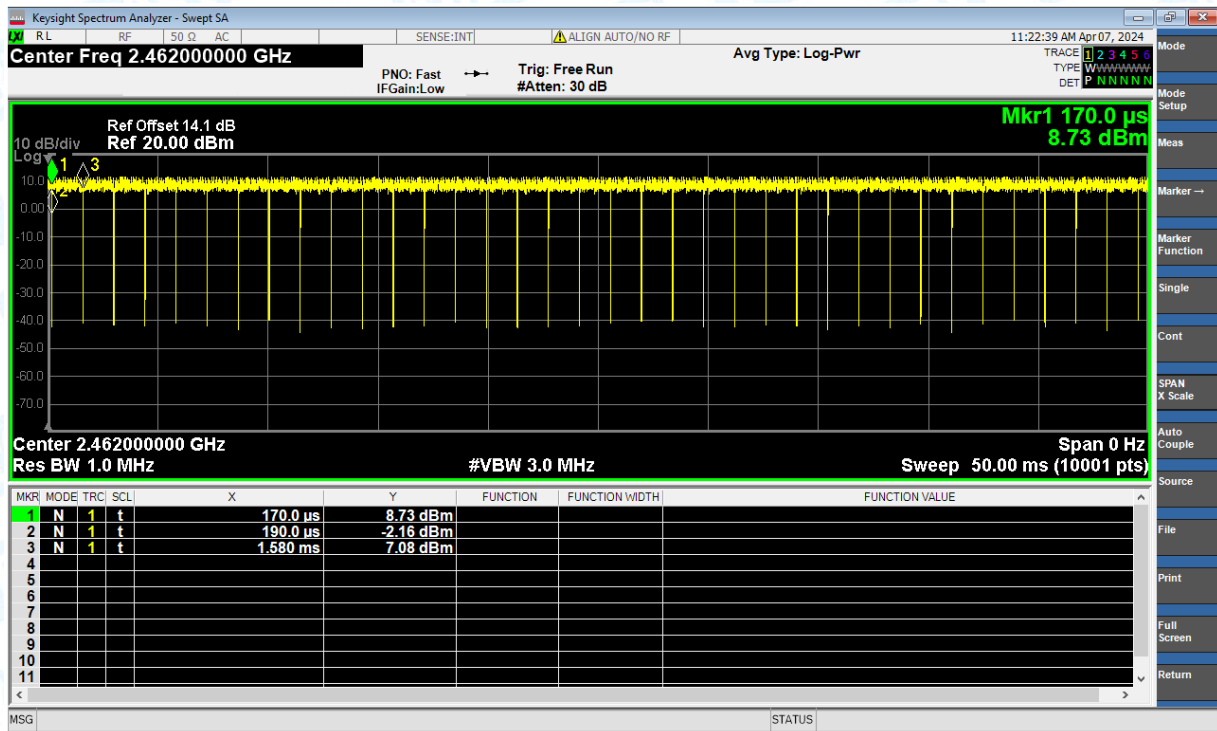
Duty Cycle NVNT g 2412MHz Ant1



Duty Cycle NVNT g 2437MHz Ant1



Duty Cycle NVNT g 2462MHz Ant1





## 2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	17.68	30	Pass
NVNT	b	2437	Ant1	17.54	30	Pass
NVNT	b	2462	Ant1	17.25	30	Pass
NVNT	g	2412	Ant1	16.75	30	Pass
NVNT	g	2437	Ant1	17.09	30	Pass
NVNT	g	2462	Ant1	16.48	30	Pass

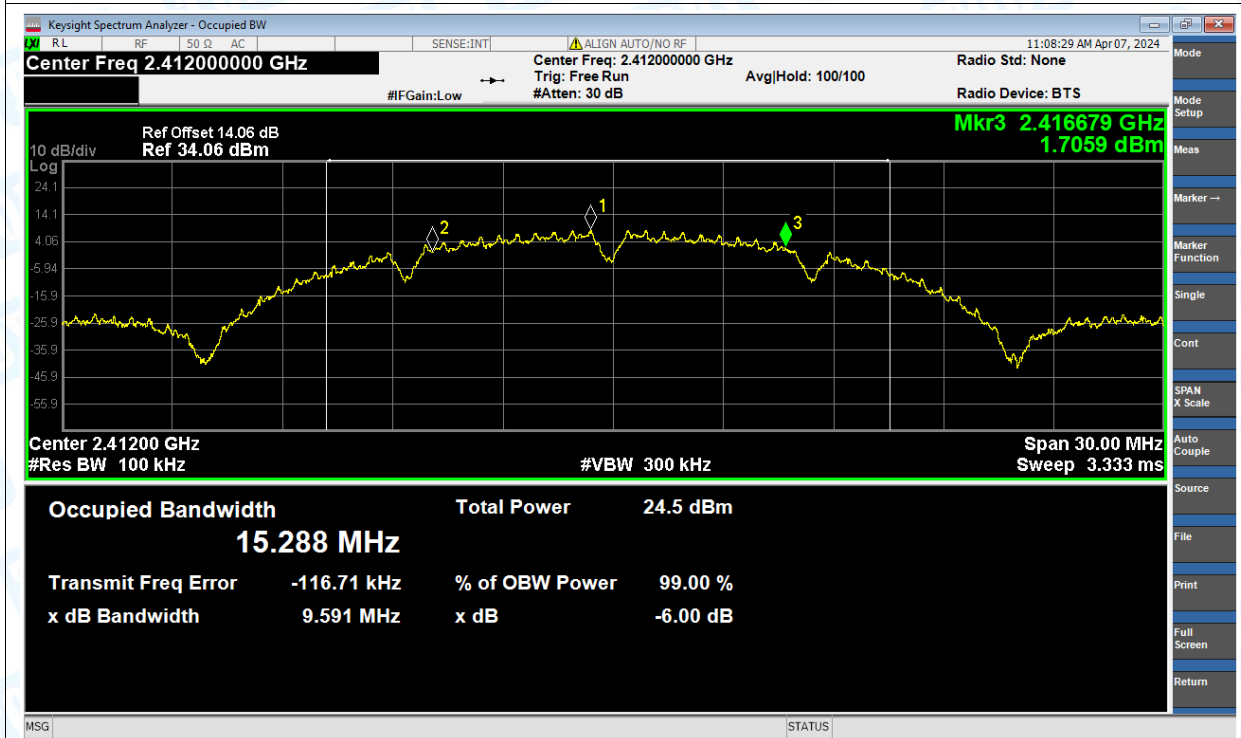


### 3. -6dB Bandwidth

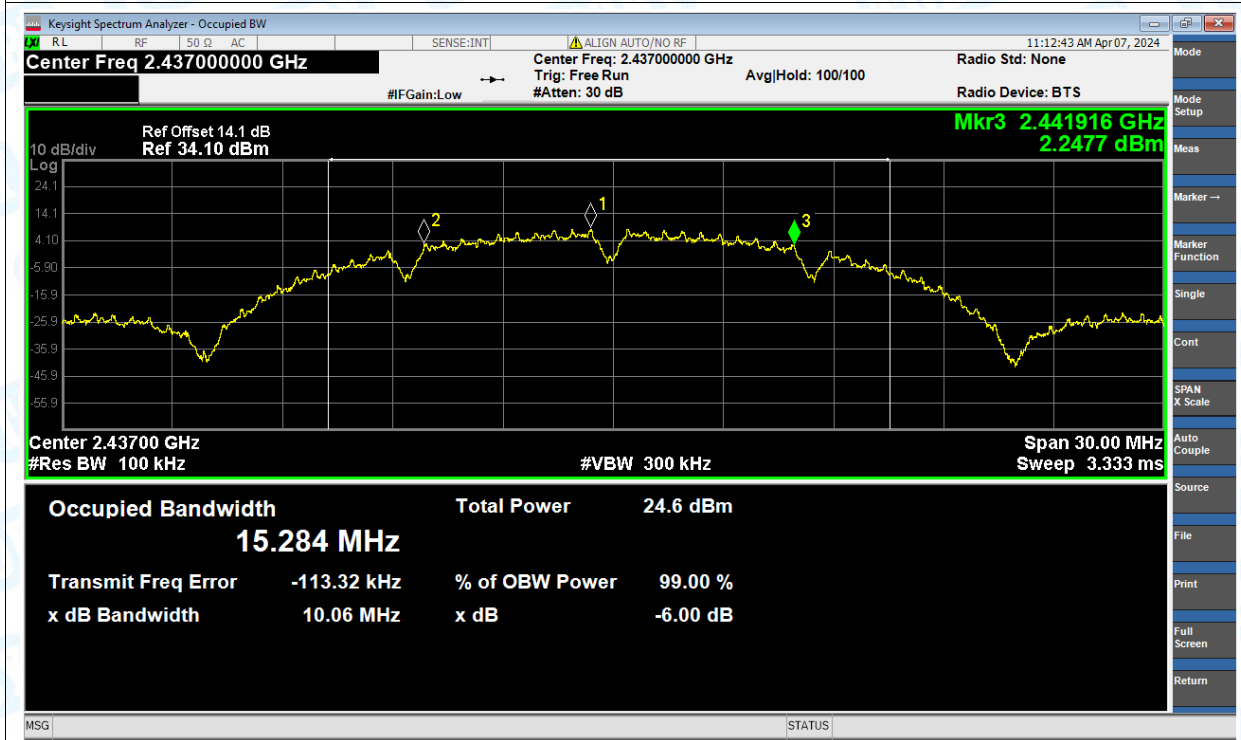
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.59	0.5	Pass
NVNT	b	2437	Ant1	10.06	0.5	Pass
NVNT	b	2462	Ant1	9.59	0.5	Pass
NVNT	g	2412	Ant1	16.32	0.5	Pass
NVNT	g	2437	Ant1	16.34	0.5	Pass
NVNT	g	2462	Ant1	16.33	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

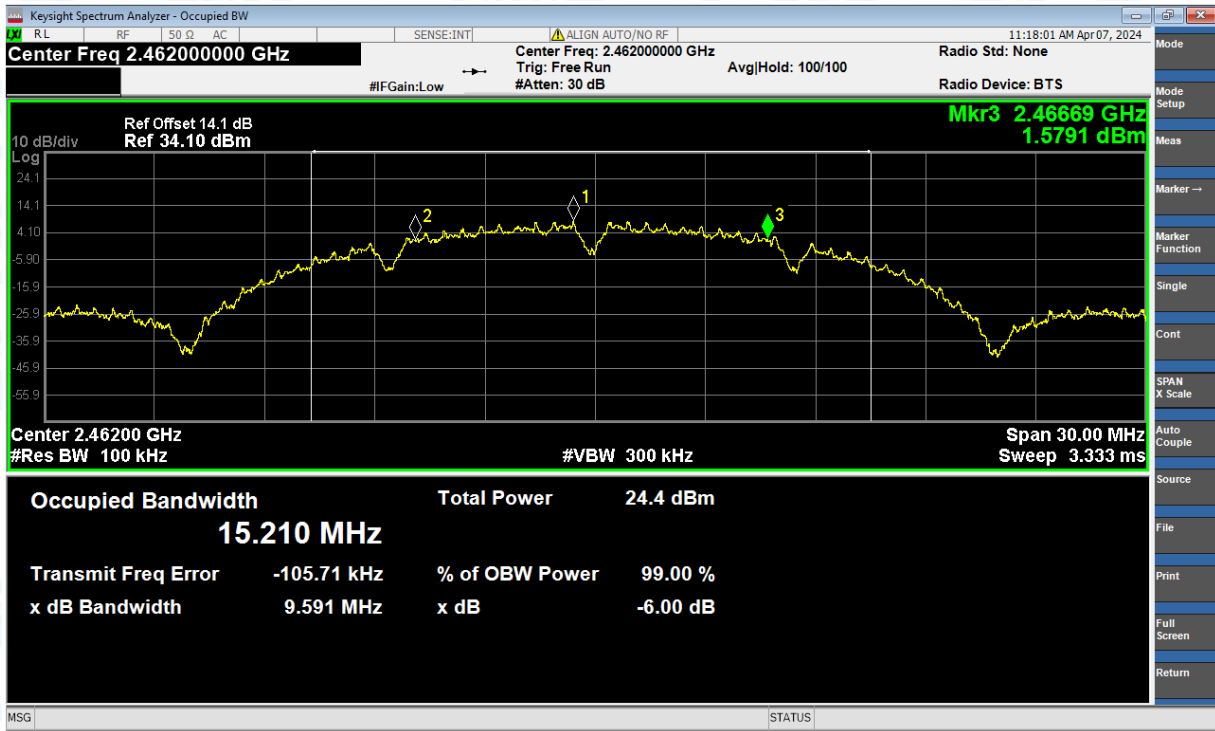


-6dB Bandwidth NVNT b 2437MHz Ant1

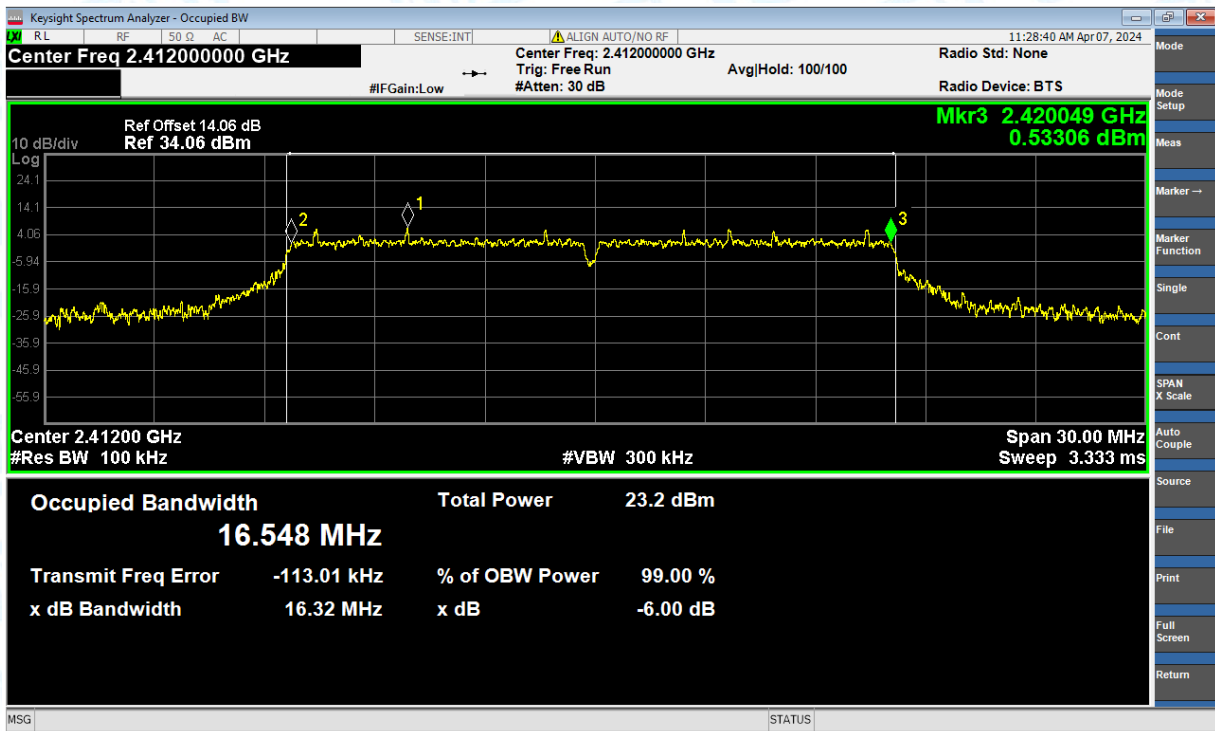




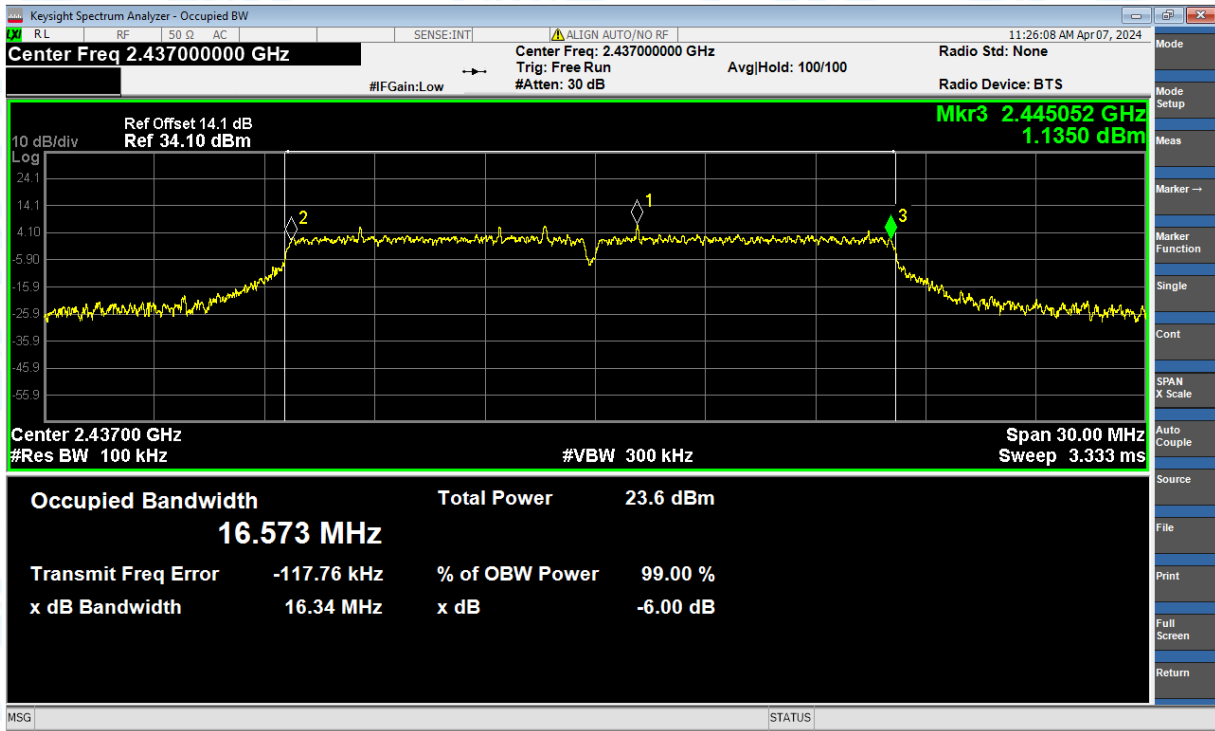
-6dB Bandwidth NVNT b 2462MHz Ant1



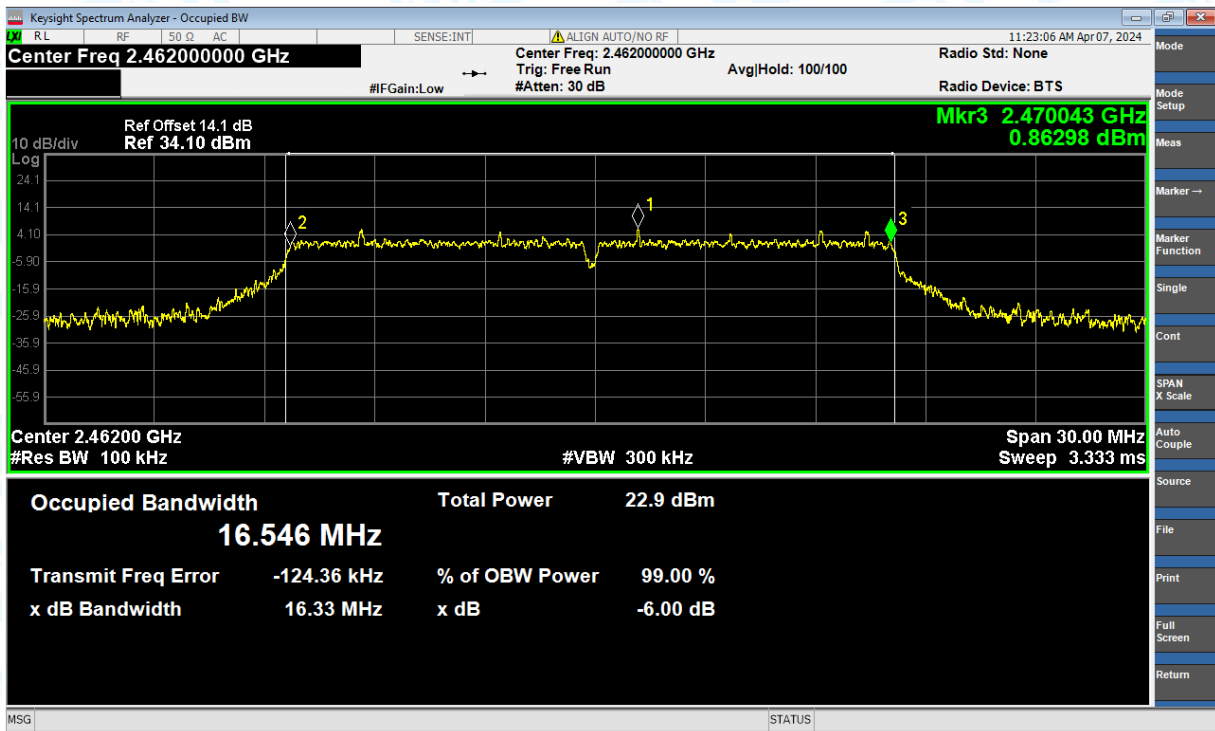
-6dB Bandwidth NVNT g 2412MHz Ant1



-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



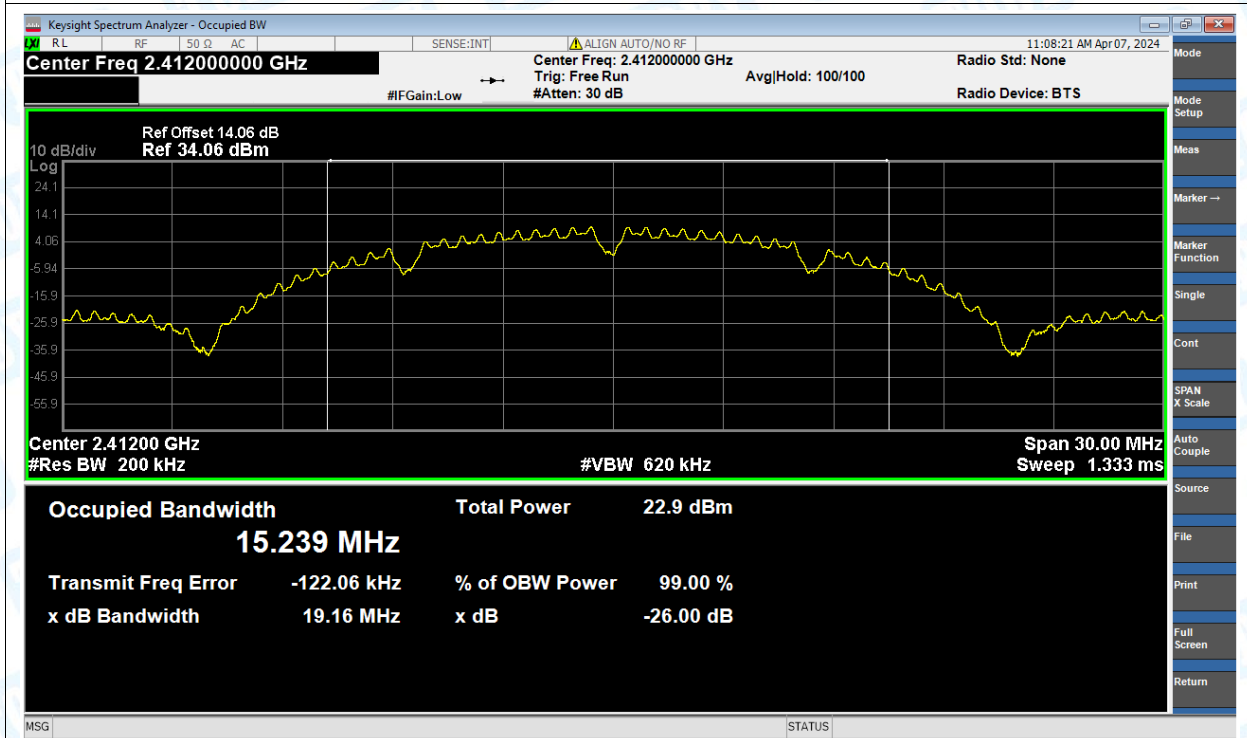


## 4. Occupied Channel Bandwidth

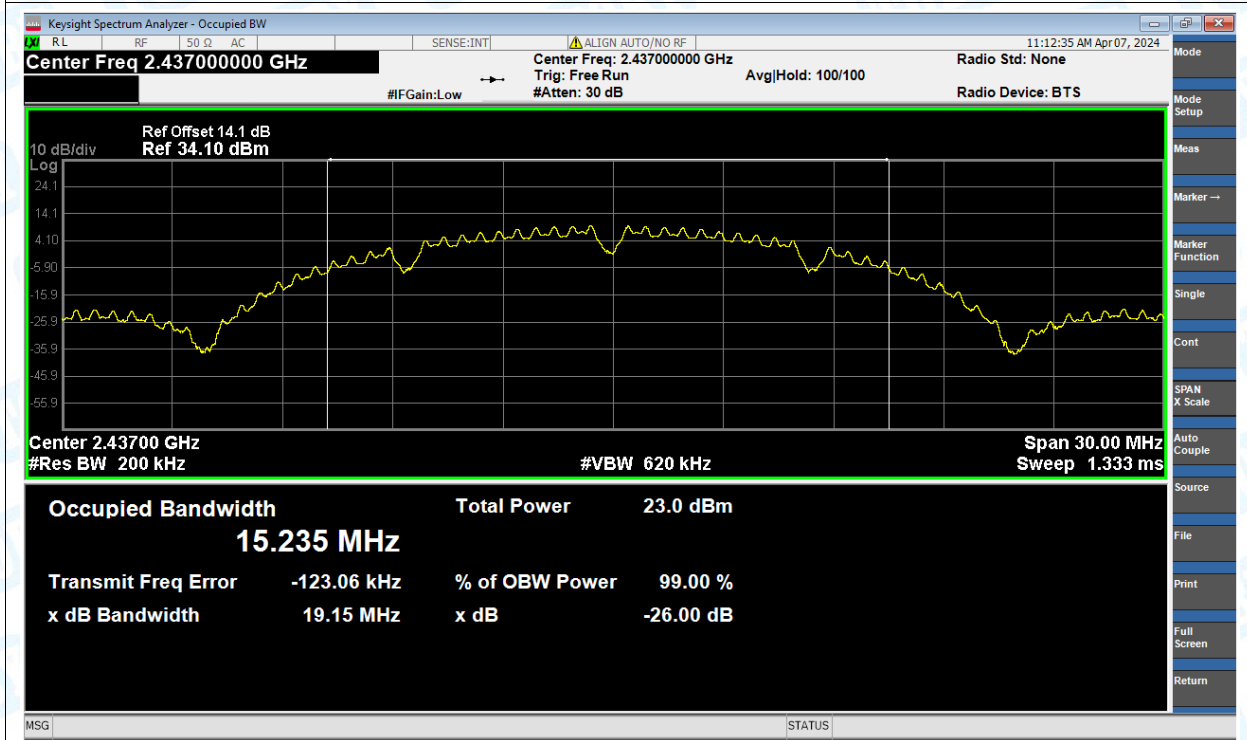
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	15.239
NVNT	b	2437	Ant1	15.235
NVNT	b	2462	Ant1	15.193
NVNT	g	2412	Ant1	16.761
NVNT	g	2437	Ant1	16.791
NVNT	g	2462	Ant1	16.760

Test Graphs

OBW NVNT b 2412MHz Ant1

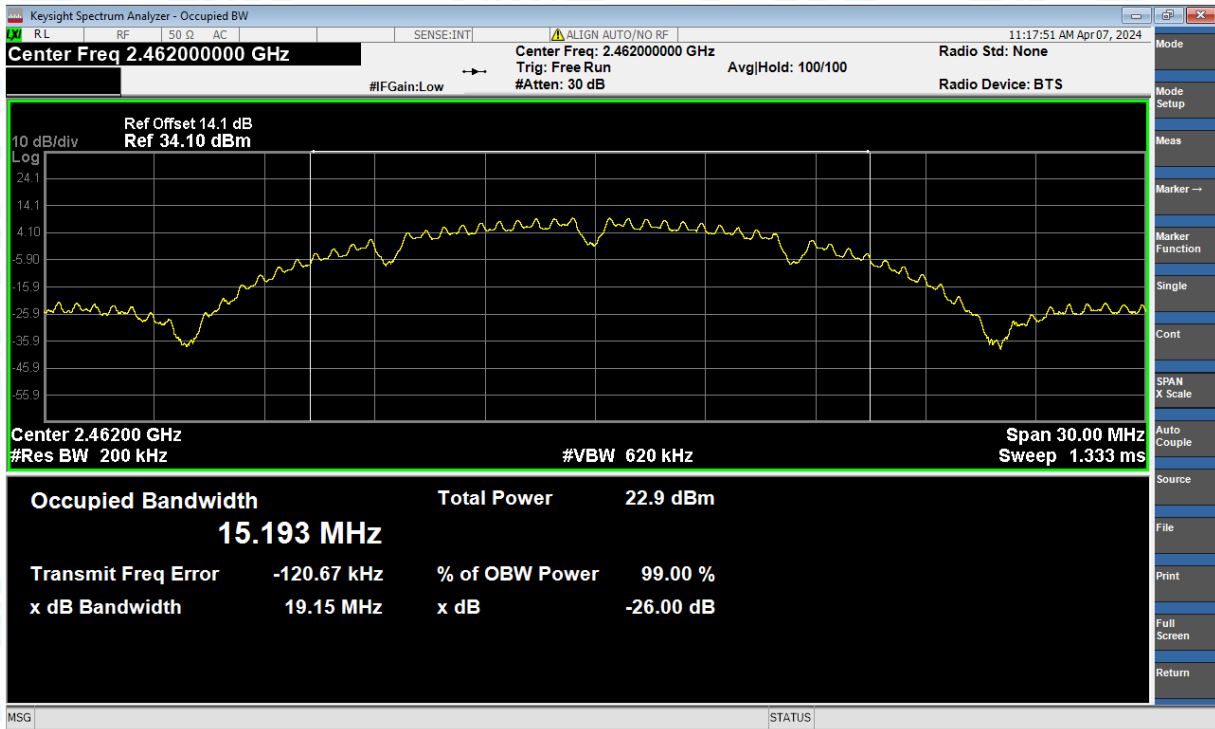


OBW NVNT b 2437MHz Ant1

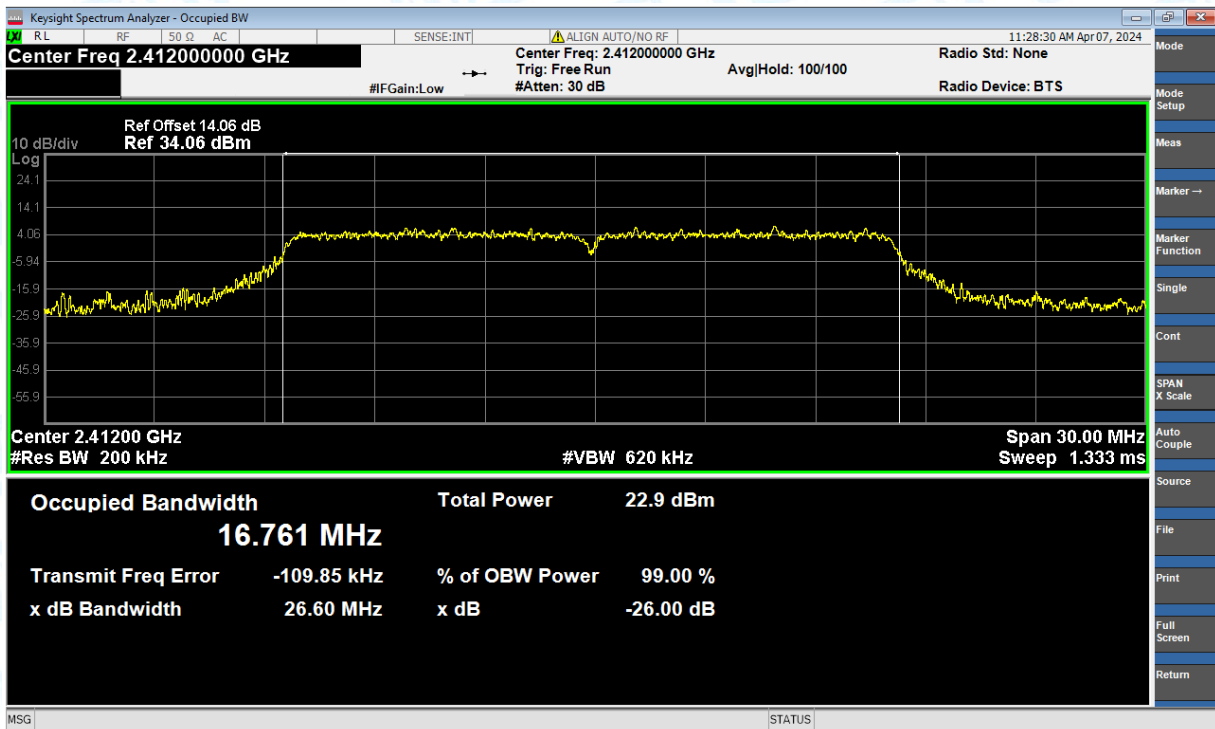




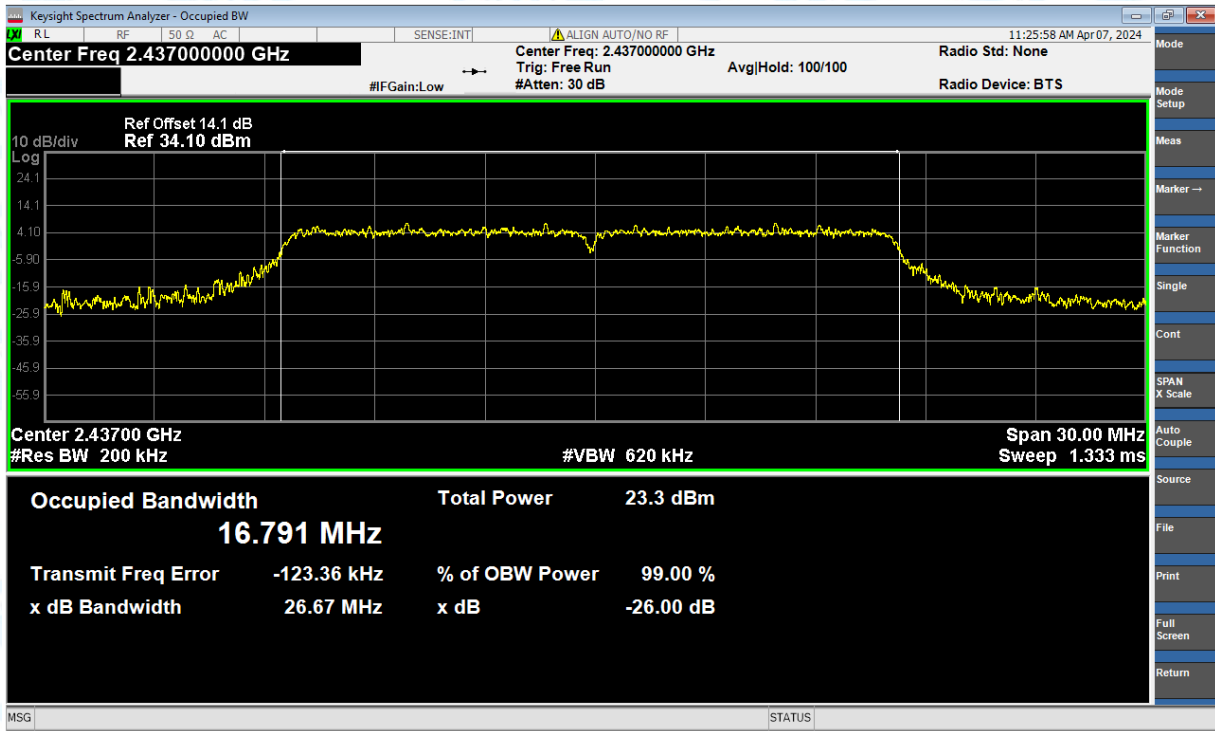
OBW NVNT b 2462MHz Ant1



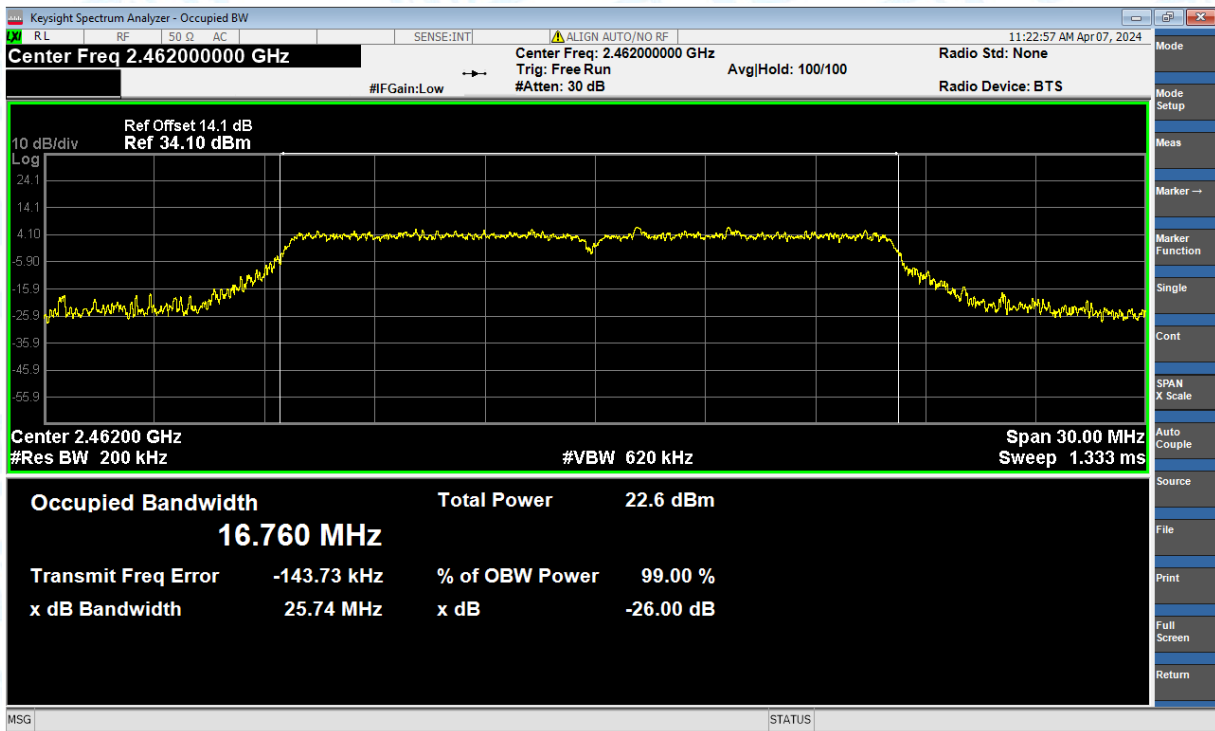
OBW NVNT g 2412MHz Ant1



OBW NVNT g 2437MHz Ant1



OBW NVNT g 2462MHz Ant1



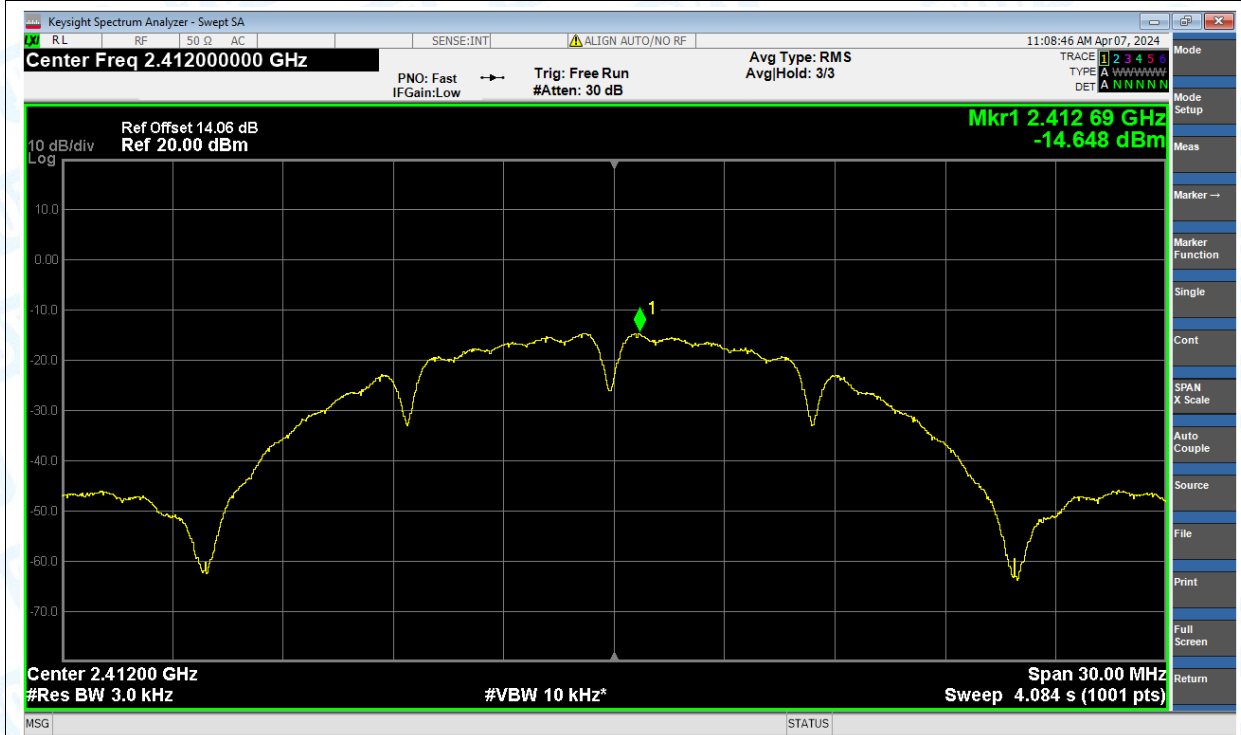


## 5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-14.648	8	Pass
NVNT	b	2437	Ant1	-14.24	8	Pass
NVNT	b	2462	Ant1	-14.614	8	Pass
NVNT	g	2412	Ant1	-17.583	8	Pass
NVNT	g	2437	Ant1	-16.274	8	Pass
NVNT	g	2462	Ant1	-17.643	8	Pass

Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1

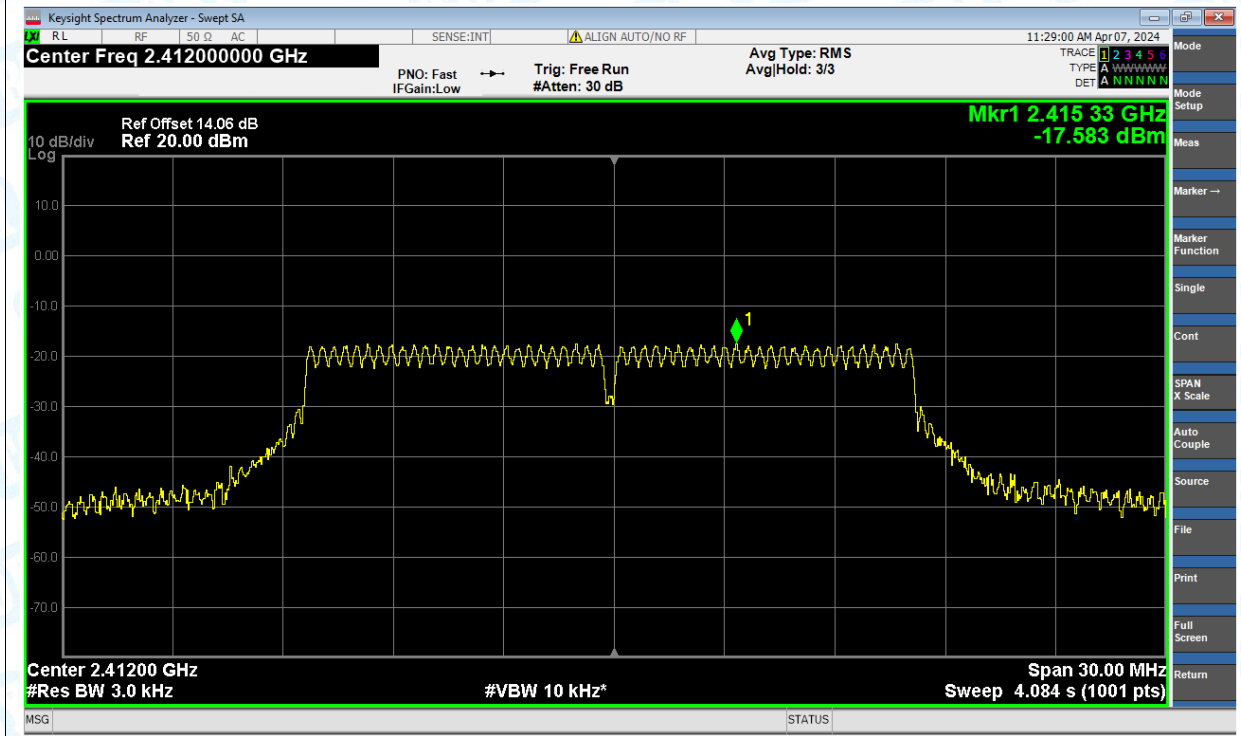




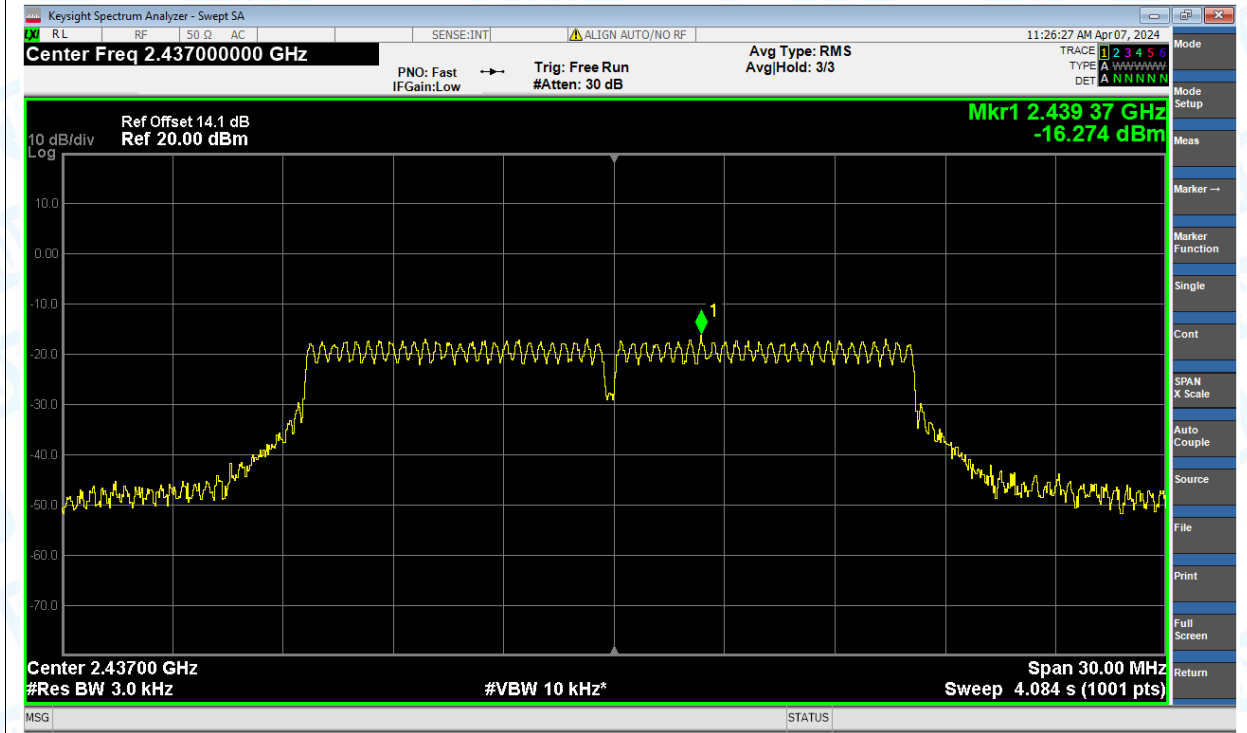
PSD NVNT b 2462MHz Ant1



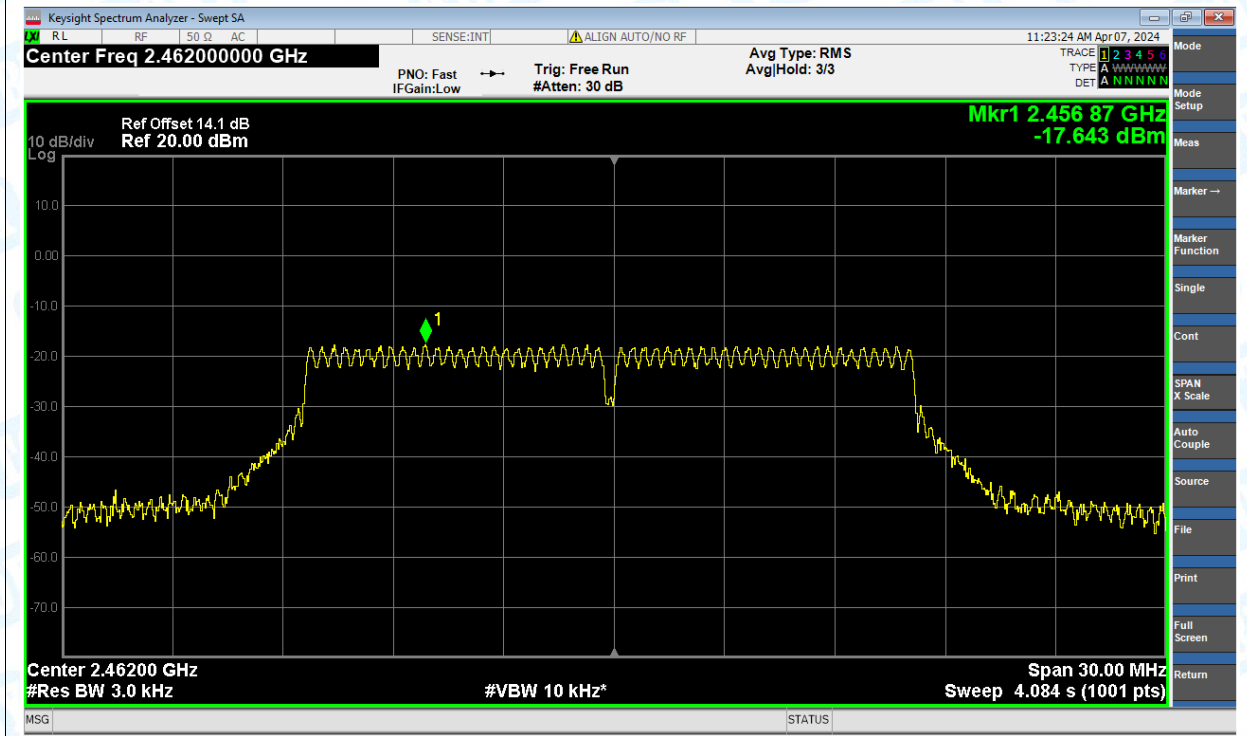
PSD NVNT g 2412MHz Ant1



PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1





## 6. Band Edge

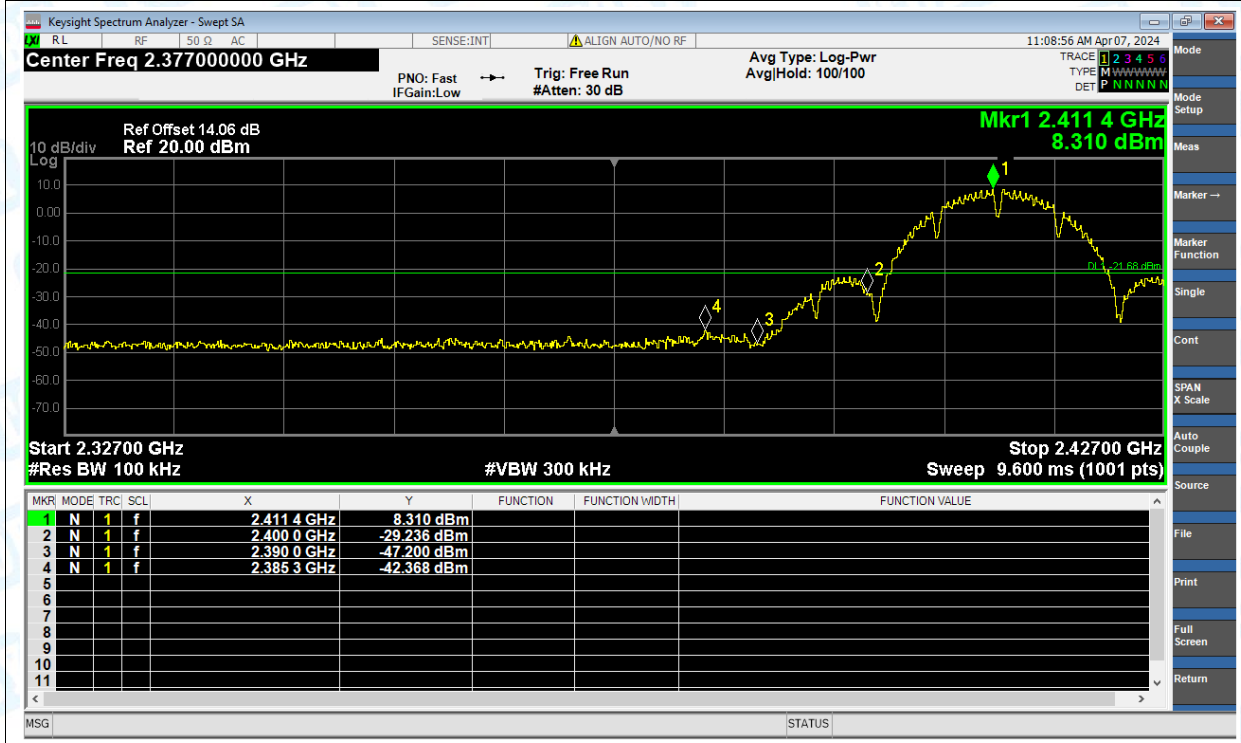
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-50.69	-30	Pass
NVNT	b	2462	Ant1	-51.79	-30	Pass
NVNT	g	2412	Ant1	-40.50	-30	Pass
NVNT	g	2462	Ant1	-42.17	-30	Pass

Test Graphs

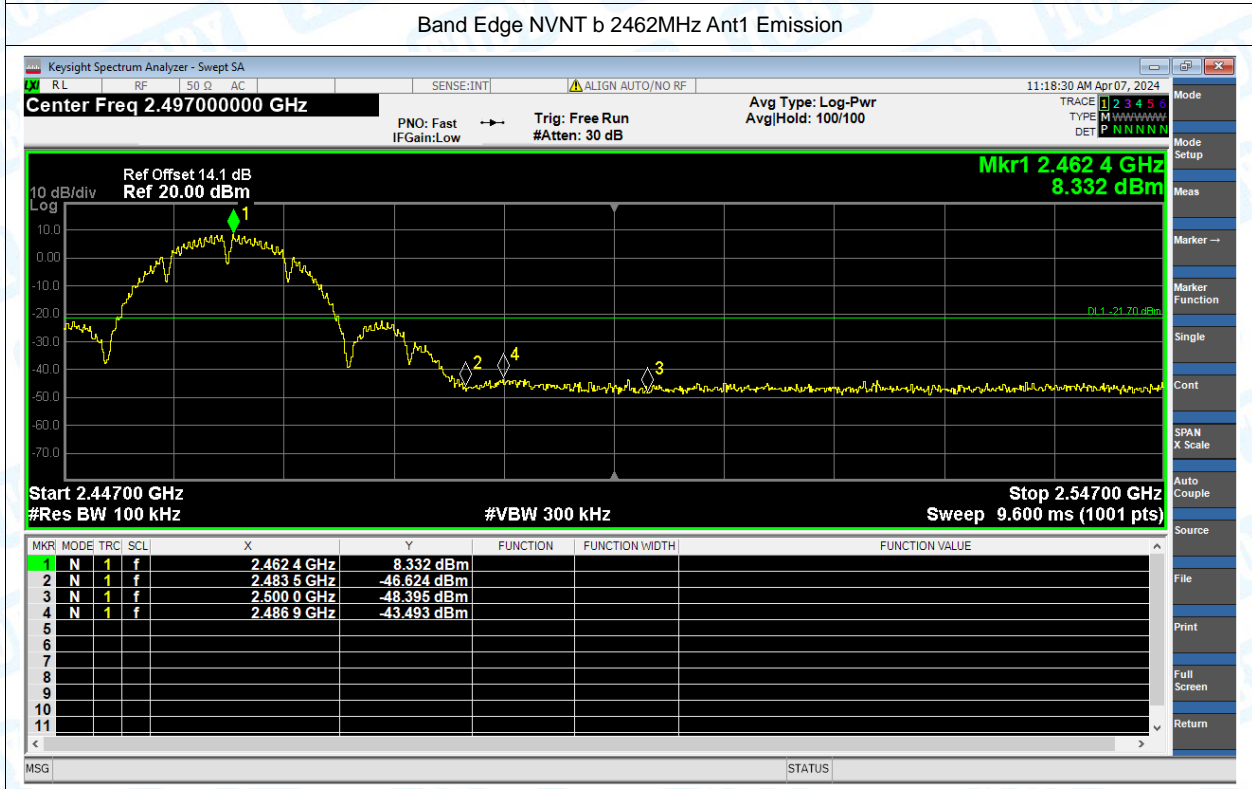
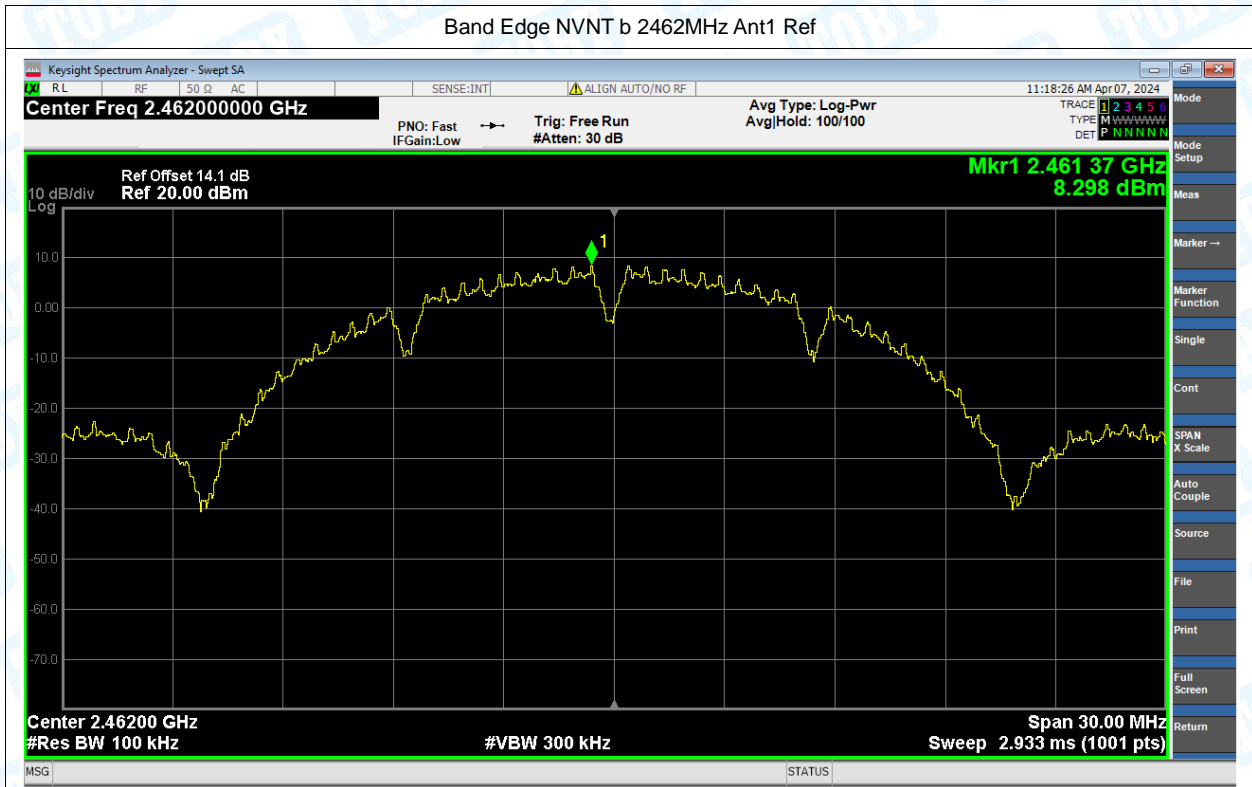
Band Edge NVNT b 2412MHz Ant1 Ref



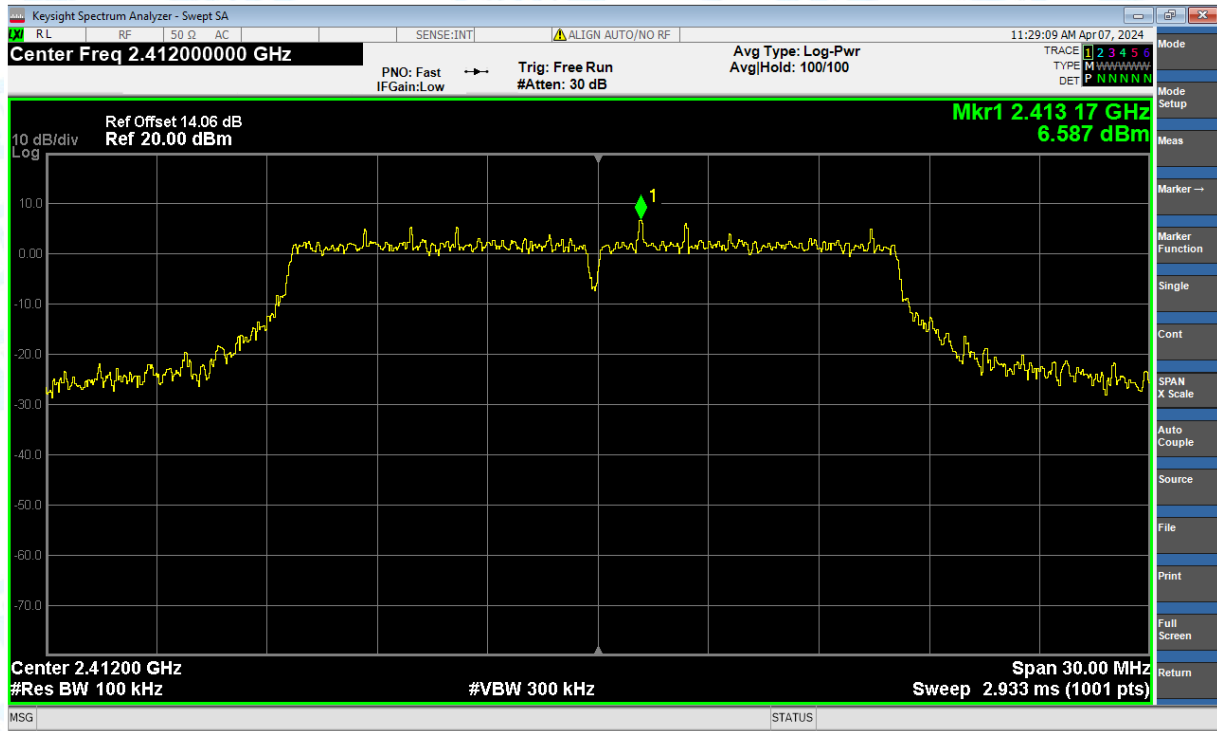
Band Edge NVNT b 2412MHz Ant1 Emission



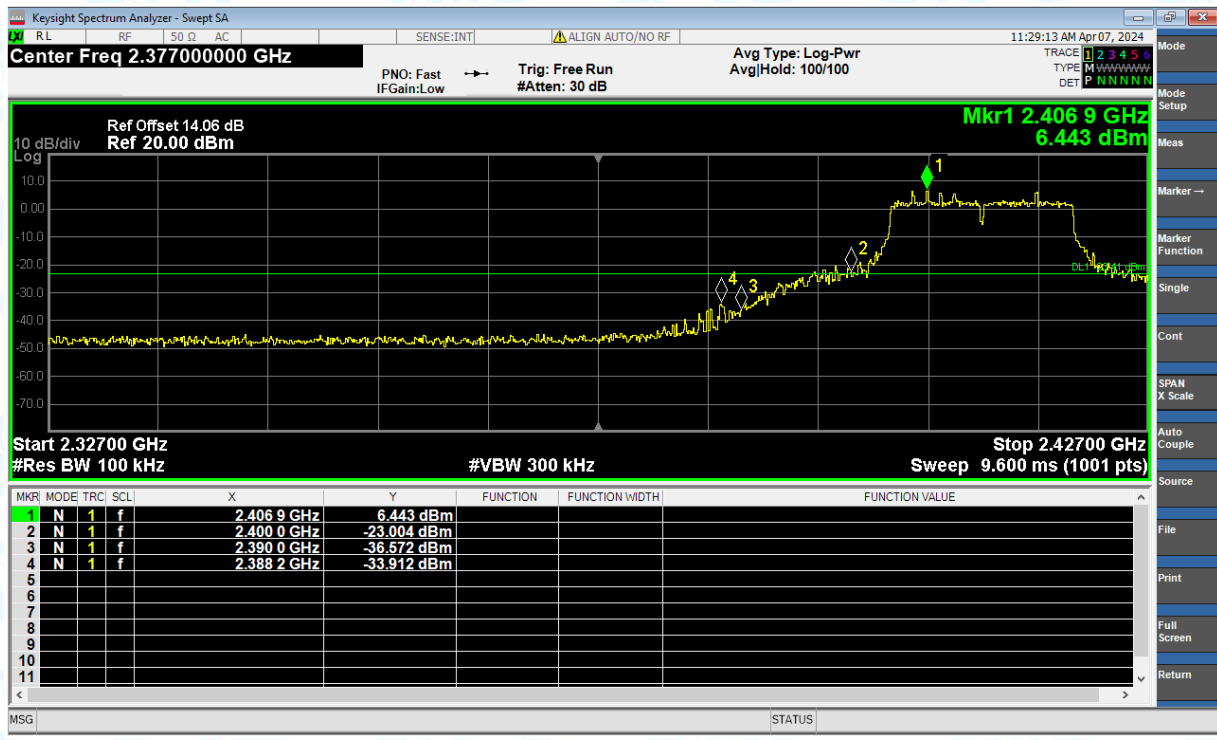




Band Edge NVNT g 2412MHz Ant1 Ref

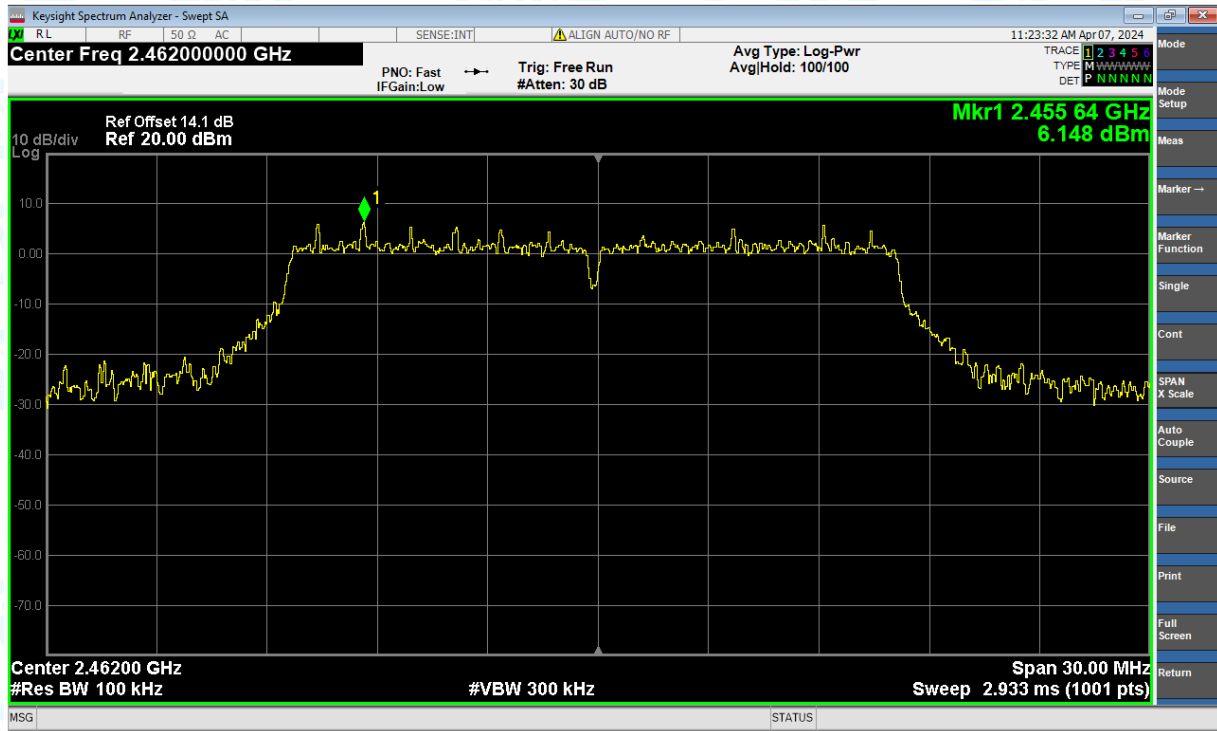


Band Edge NVNT g 2412MHz Ant1 Emission

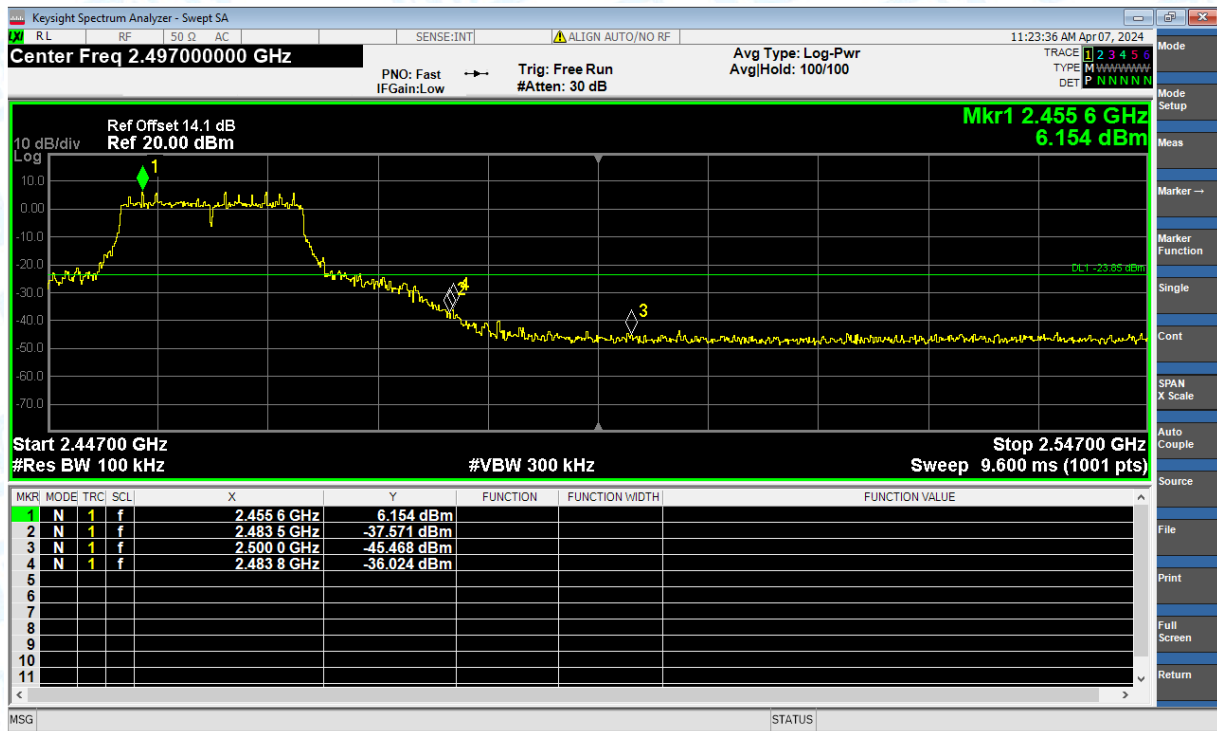




Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



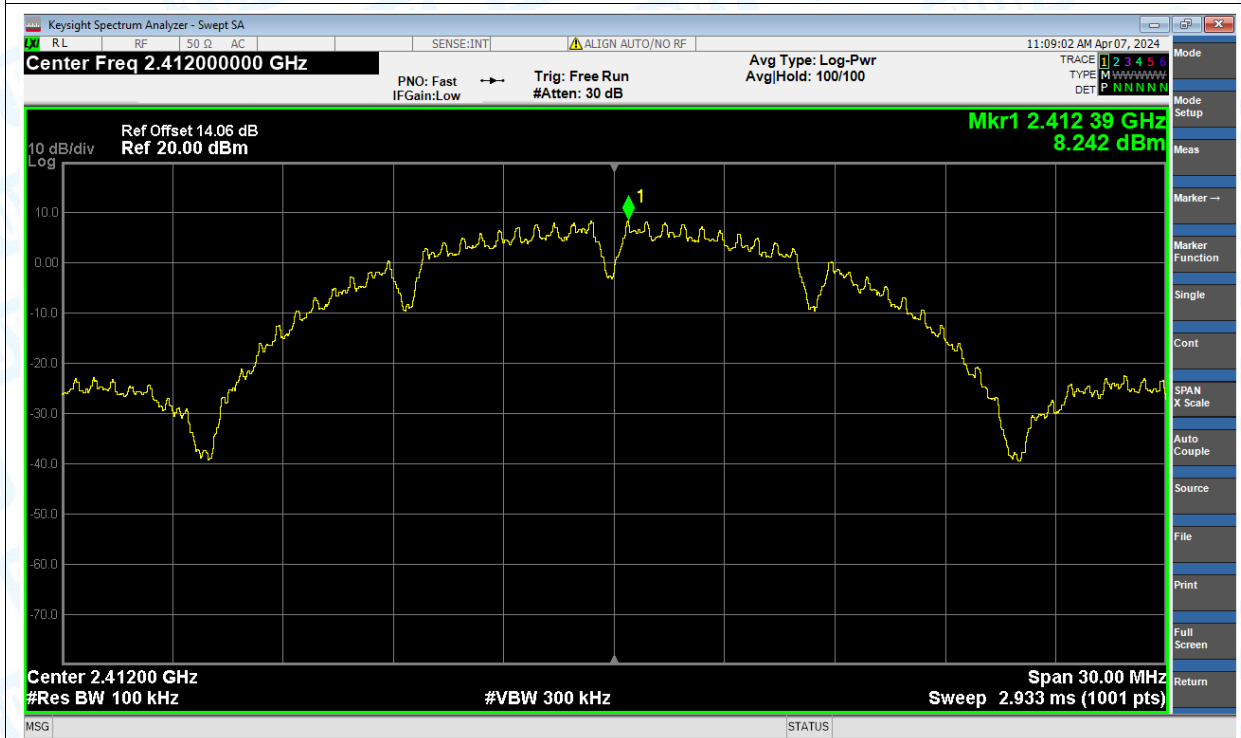
## 7. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-38.88	-30	Pass
NVNT	b	2437	Ant1	-38.94	-30	Pass
NVNT	b	2462	Ant1	-38.81	-30	Pass
NVNT	g	2412	Ant1	-37.22	-30	Pass
NVNT	g	2437	Ant1	-37.46	-30	Pass
NVNT	g	2462	Ant1	-36.85	-30	Pass

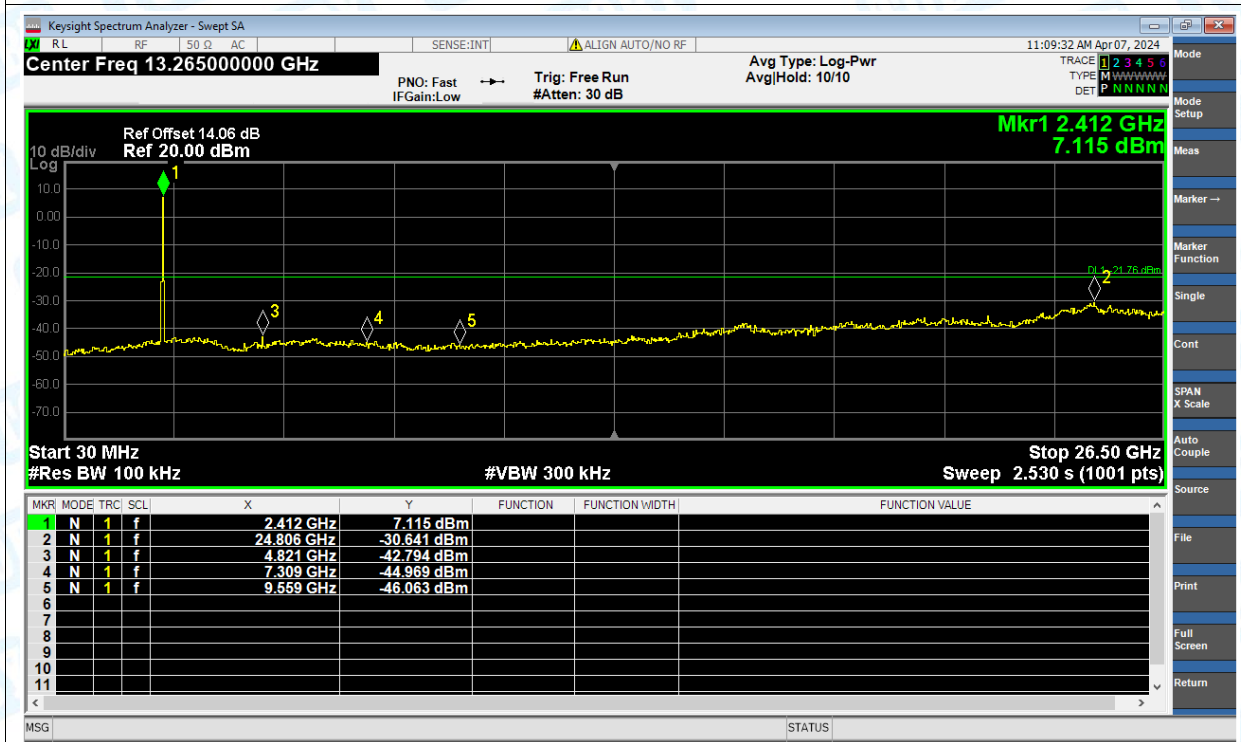


Test Graphs

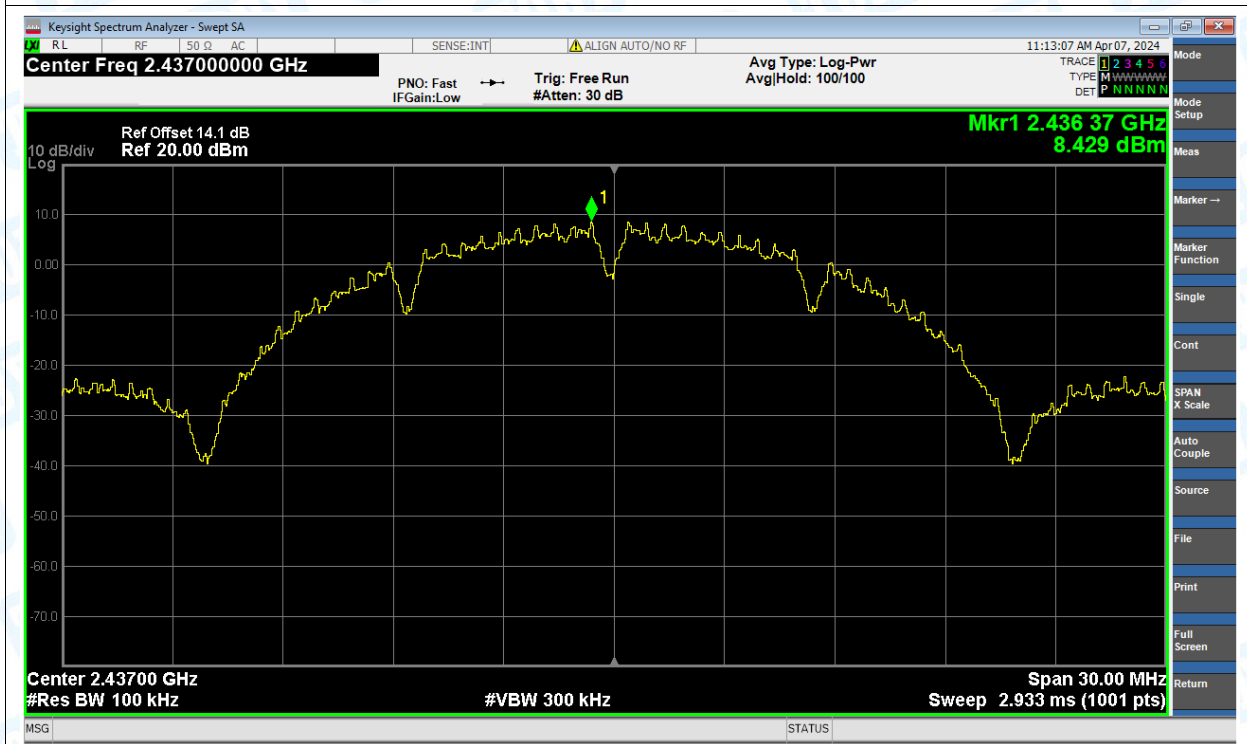
Tx. Spurious NVNT b 2412MHz Ant1 Ref



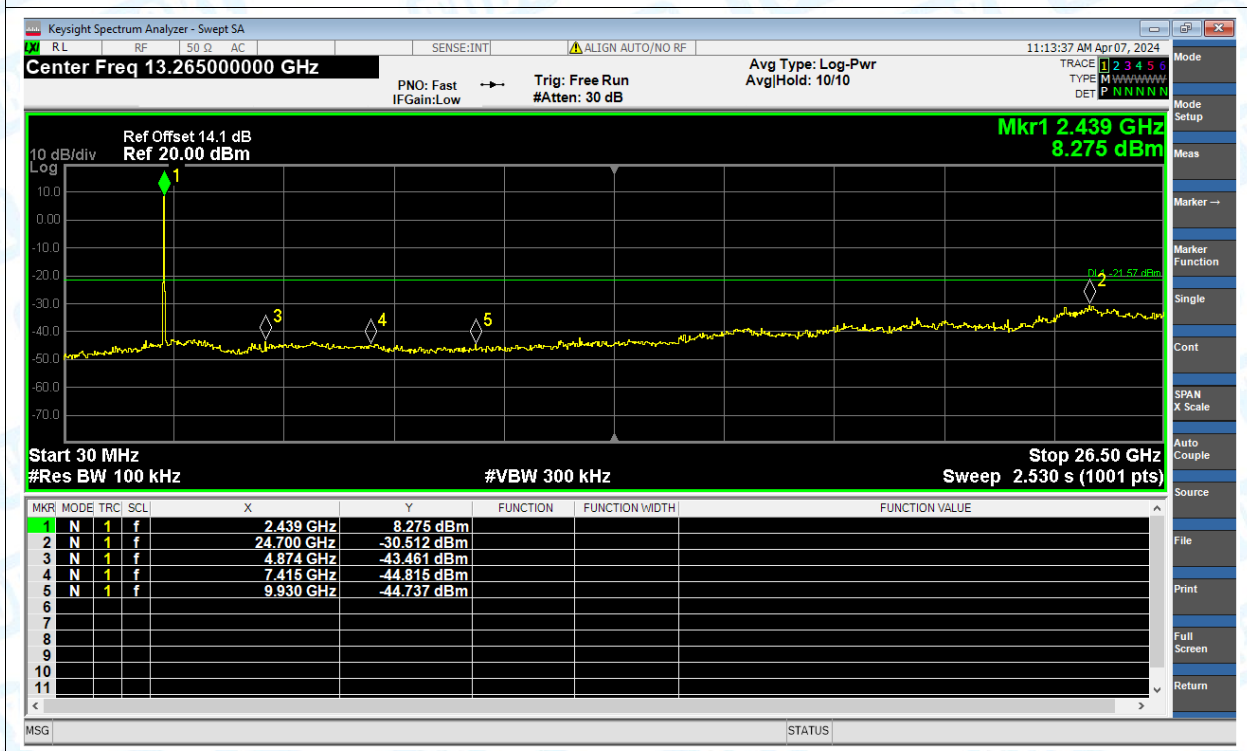
Tx. Spurious NVNT b 2412MHz Ant1 Emission



Tx. Spurious NVNT b 2437MHz Ant1 Ref

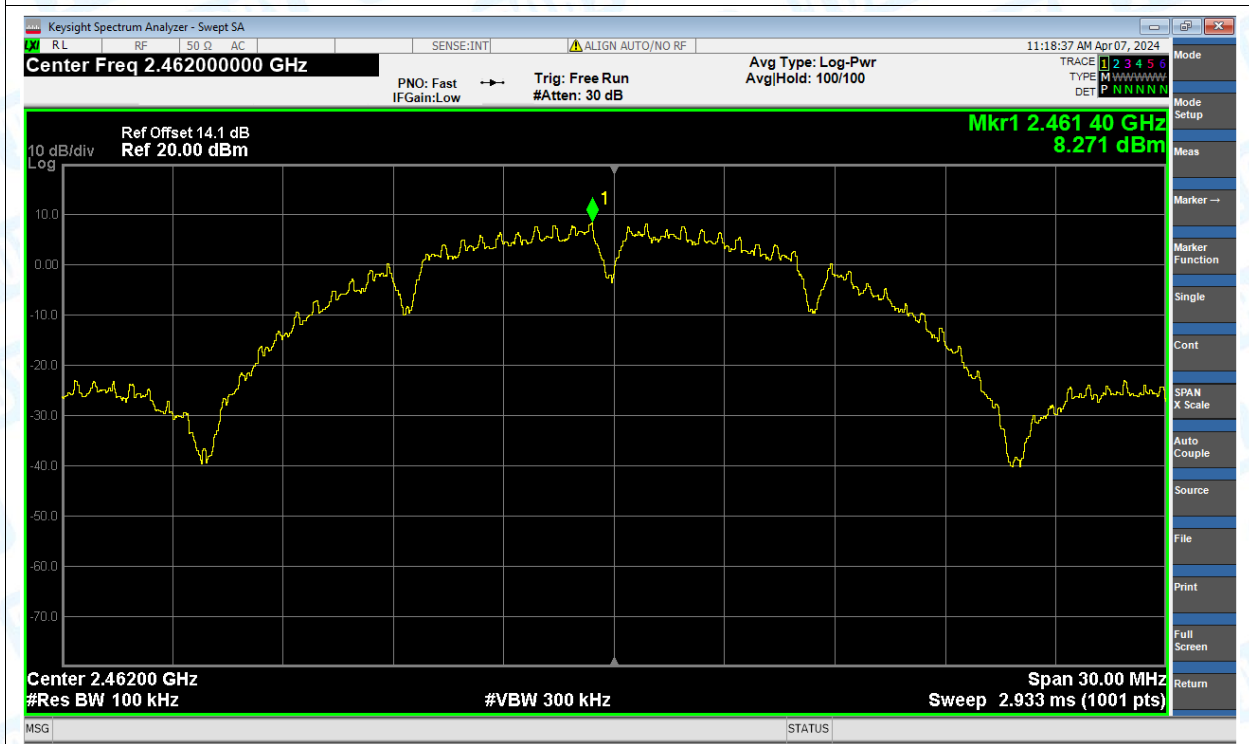


Tx. Spurious NVNT b 2437MHz Ant1 Emission

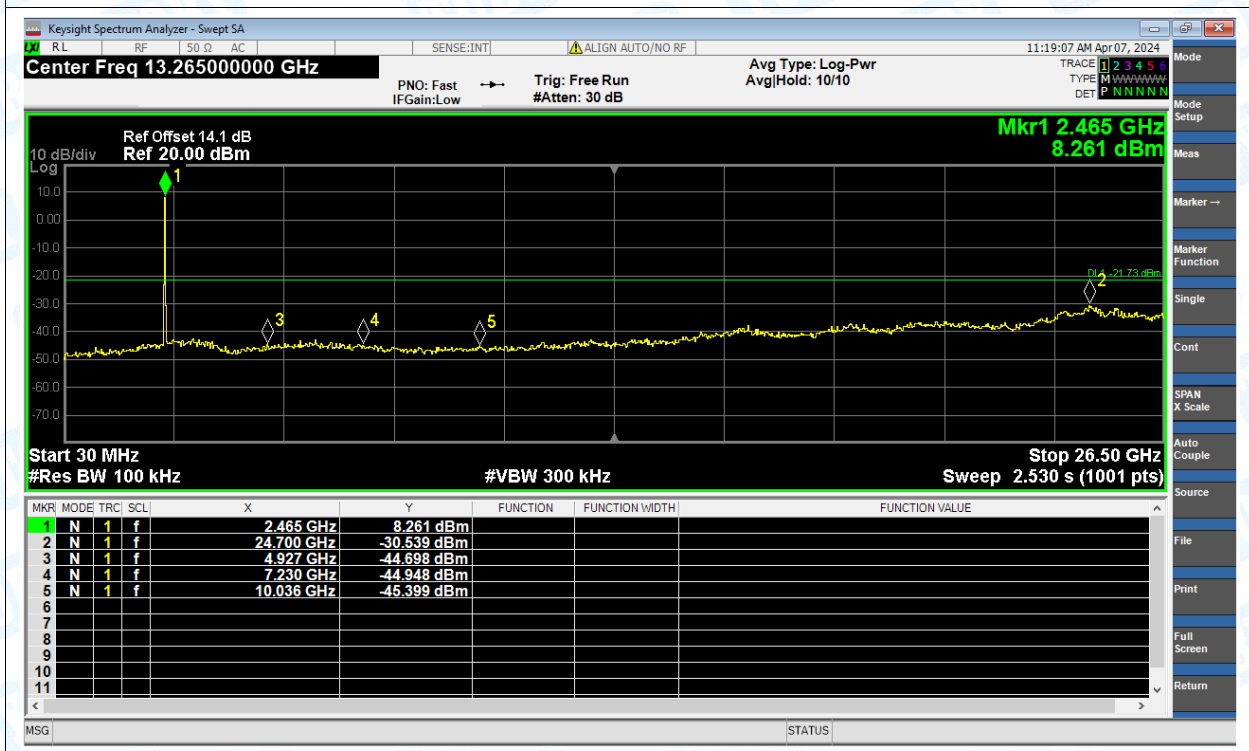




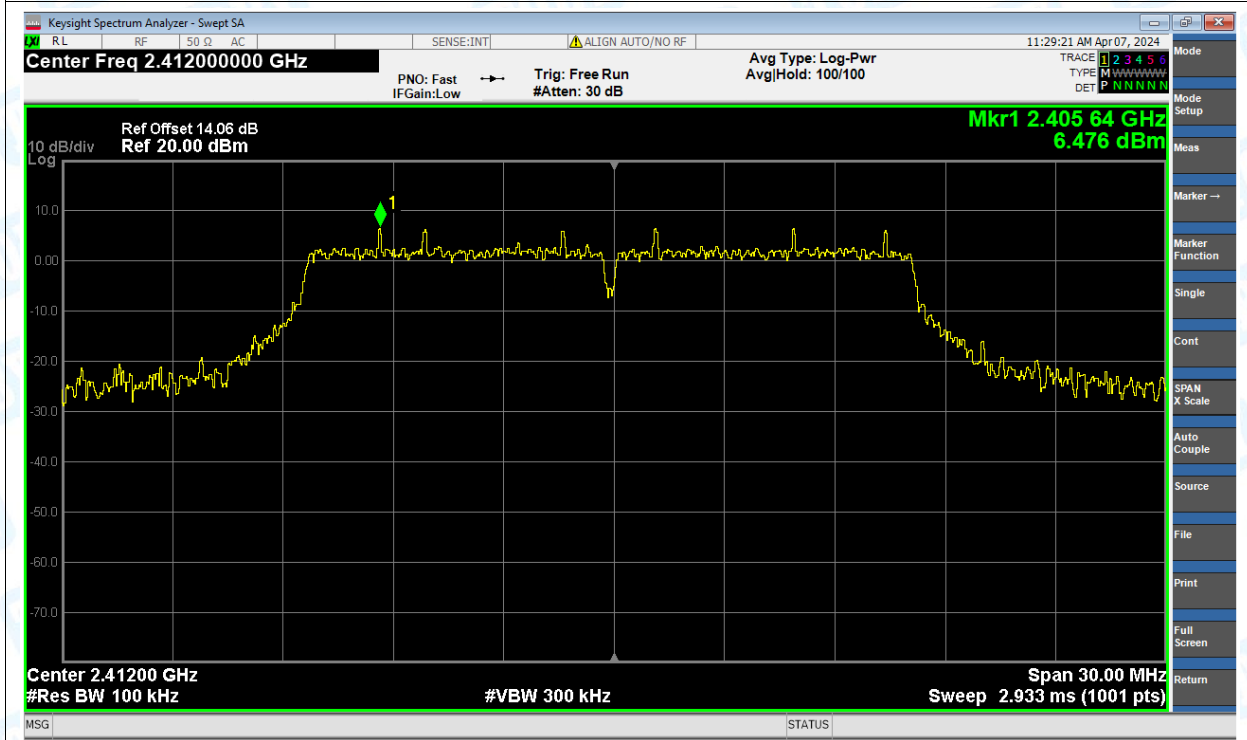
Tx. Spurious NVNT b 2462MHz Ant1 Ref



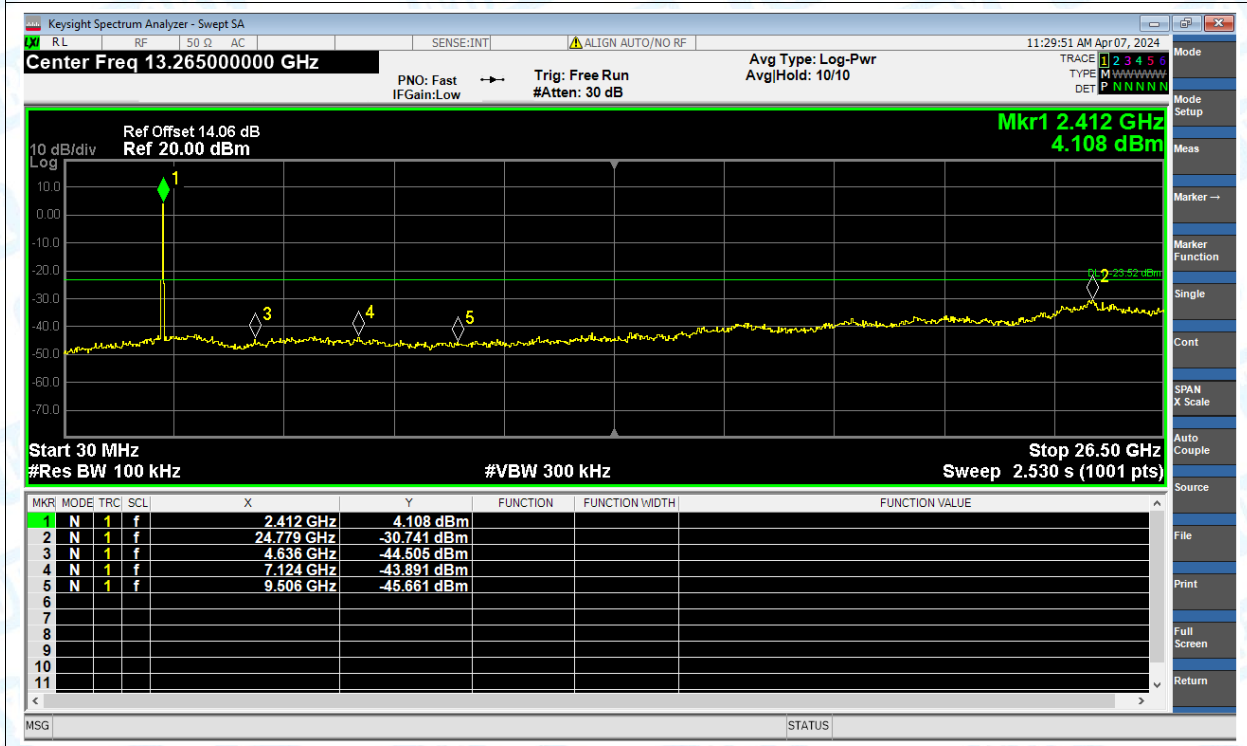
Tx. Spurious NVNT b 2462MHz Ant1 Emission



Tx. Spurious NVNT g 2412MHz Ant1 Ref

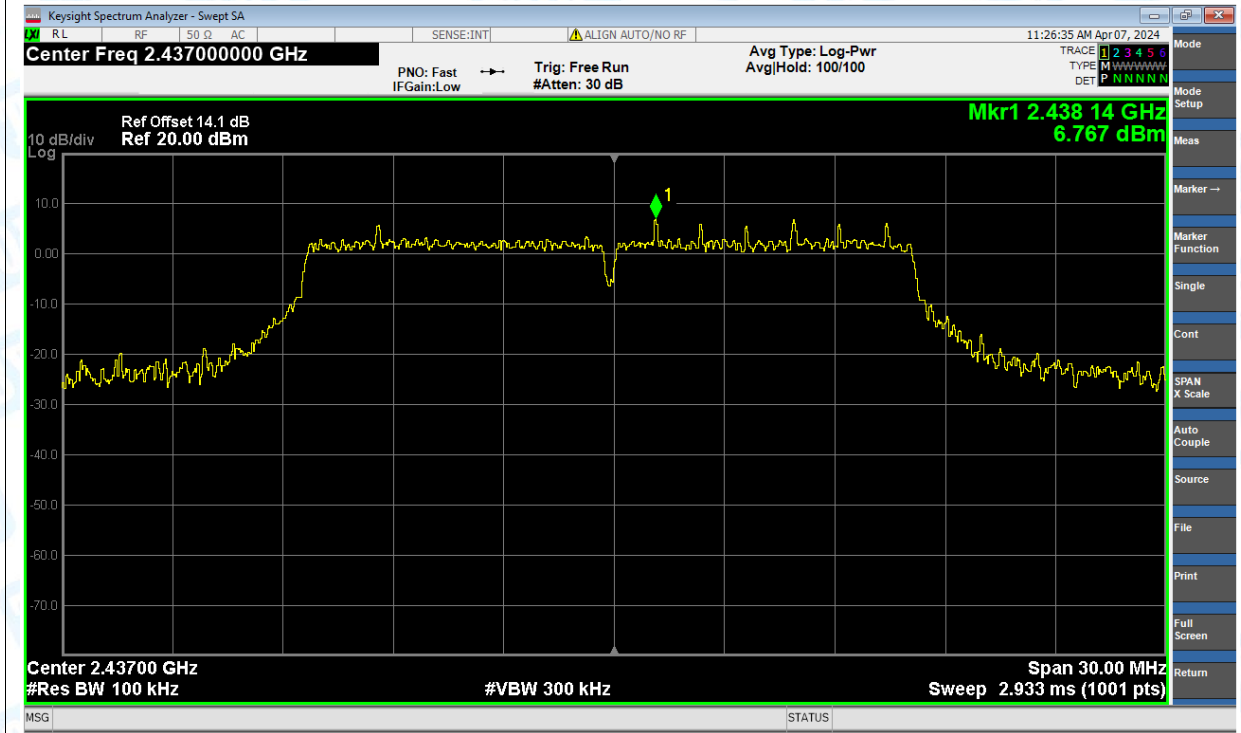


Tx. Spurious NVNT g 2412MHz Ant1 Emission

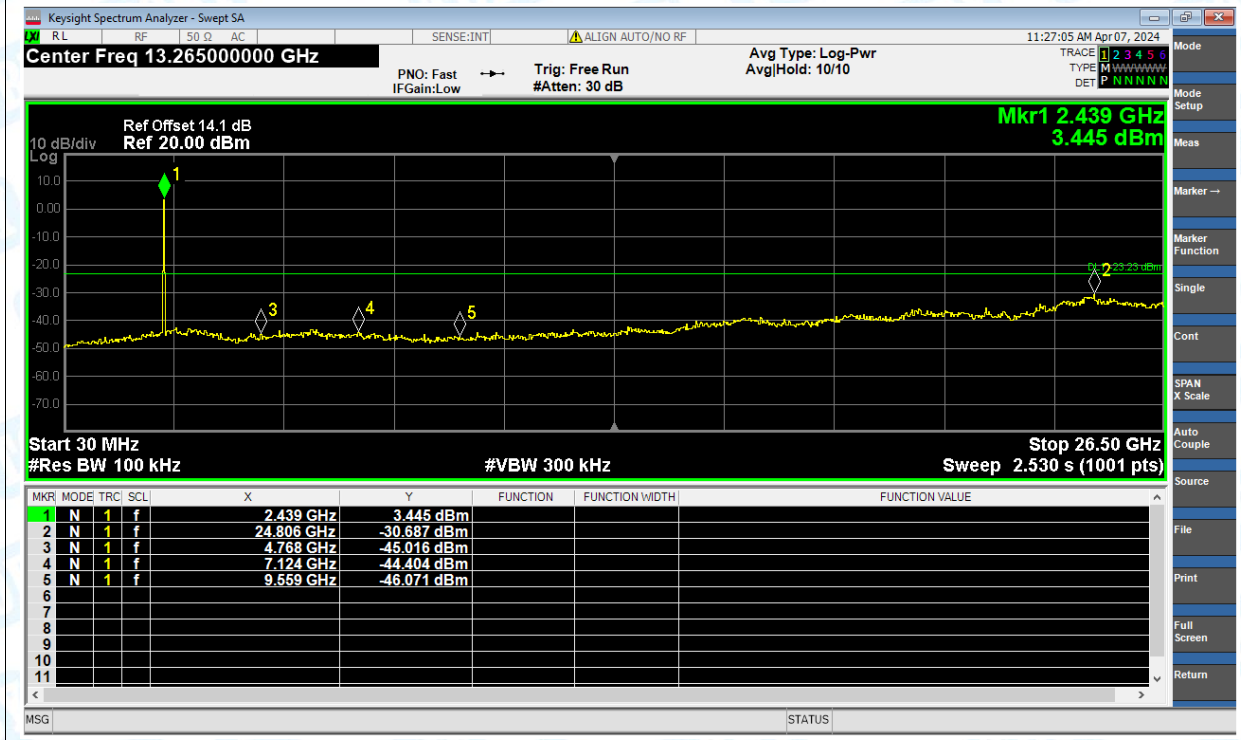




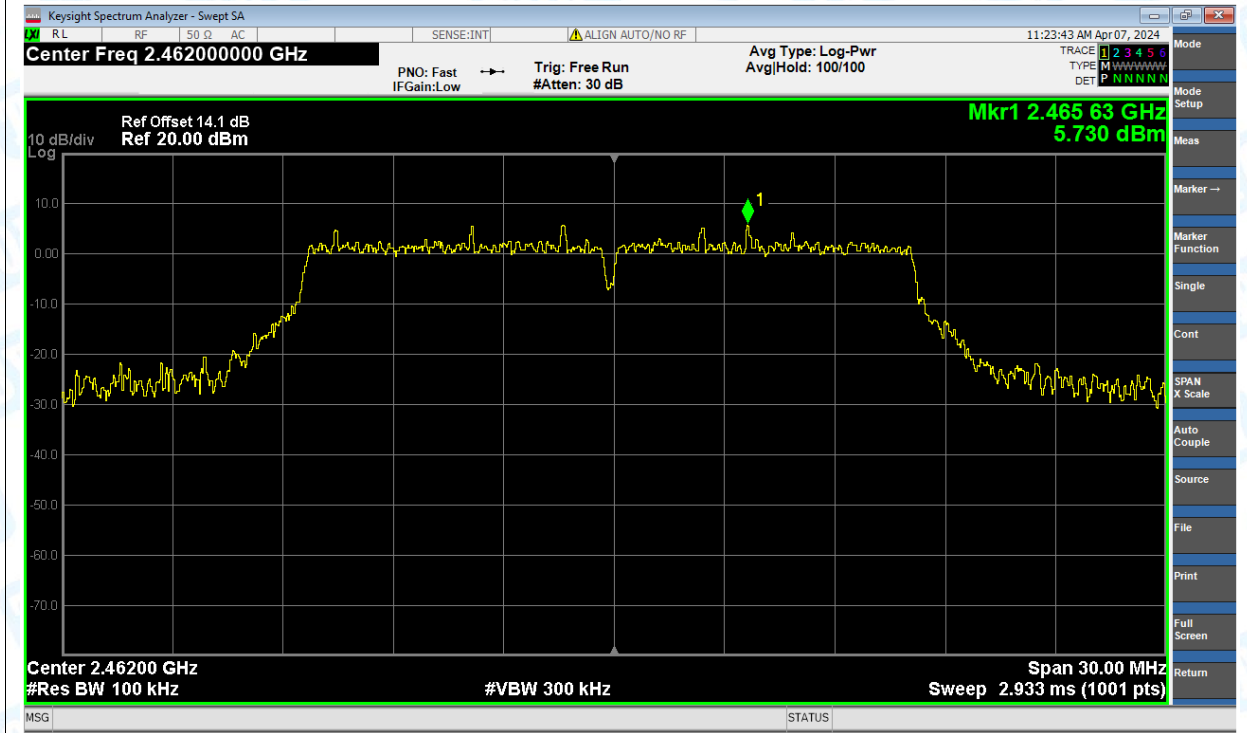
Tx. Spurious NVNT g 2437MHz Ant1 Ref



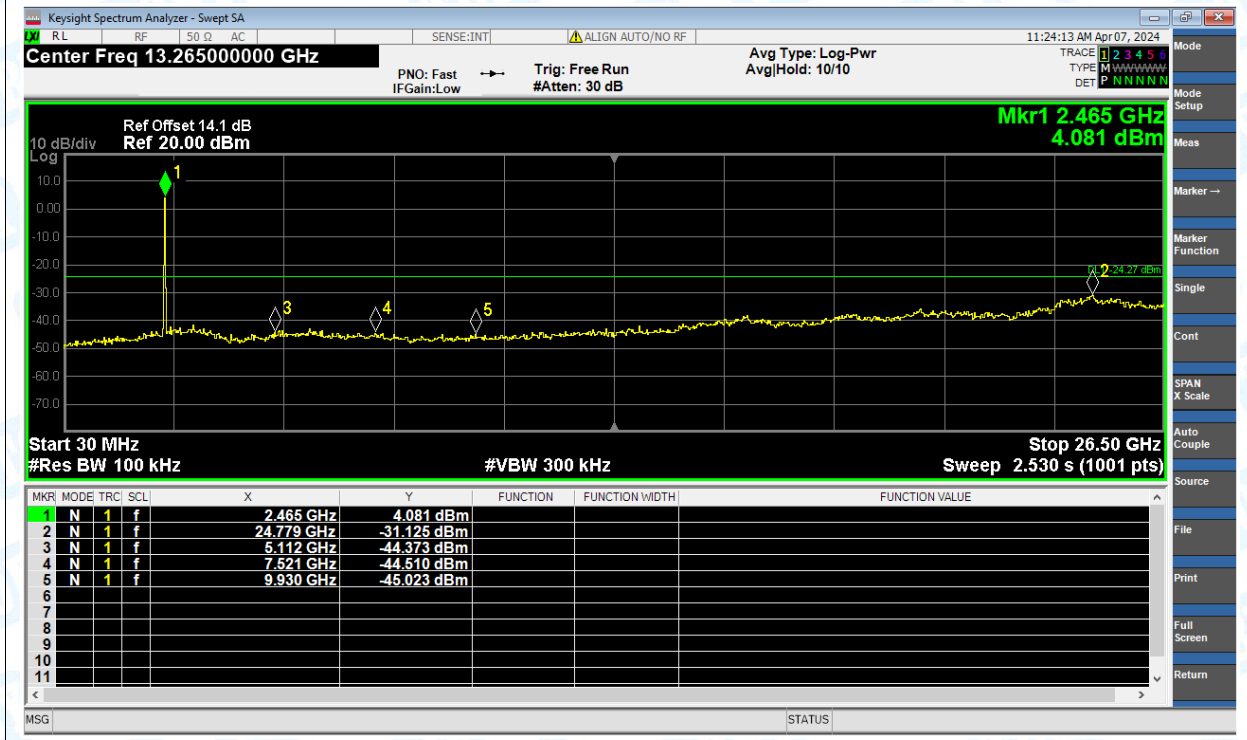
Tx. Spurious NVNT g 2437MHz Ant1 Emission



Tx. Spurious NVNT g 2462MHz Ant1 Ref



Tx. Spurious NVNT g 2462MHz Ant1 Emission



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