

RF Test Data for 2.4G WiFi (Conducted Measurements)

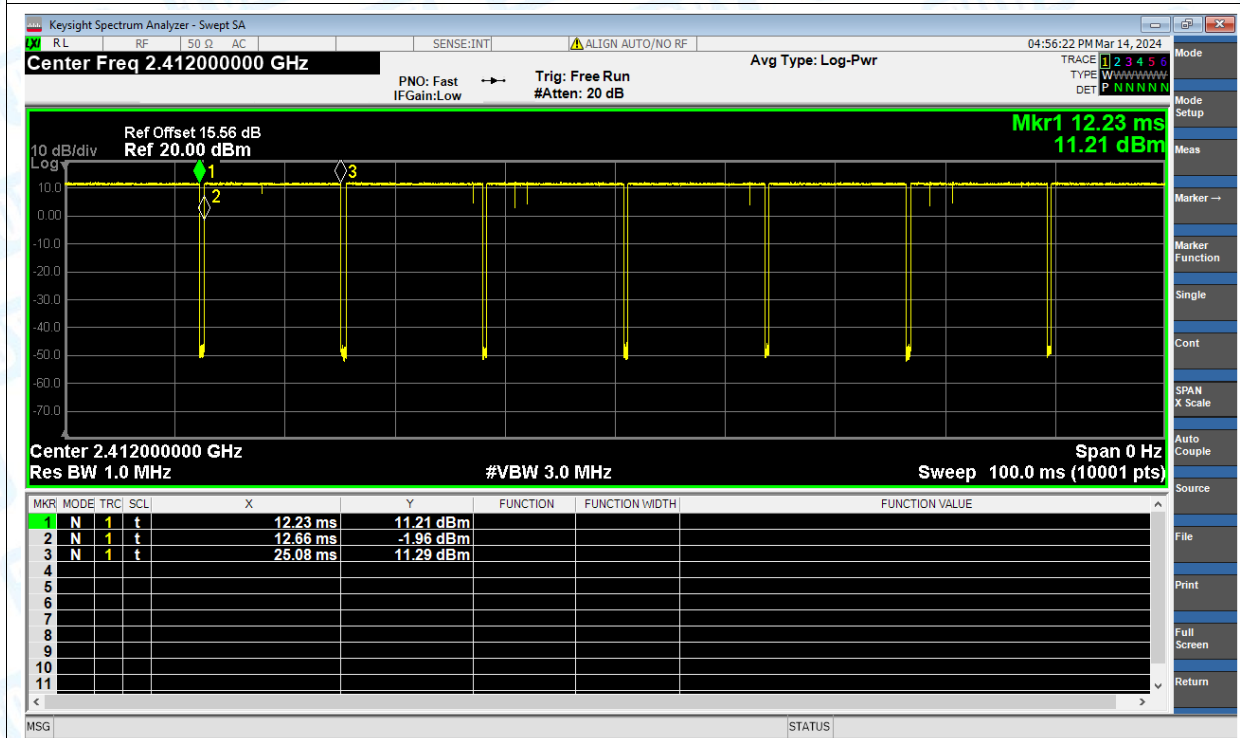
General Description of EUT	
Product Name:	nooie smart baby monitor
Test Model:	NB2
Sample ID:	HC-C-202401-0300-01-02-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 5V
Test Engineer:	ZKN ZHOU
Note: For a more detailed features description, please refer to the report TBR-C-202401-0300-2 The report only show the worst case data.	

1. Duty Cycle

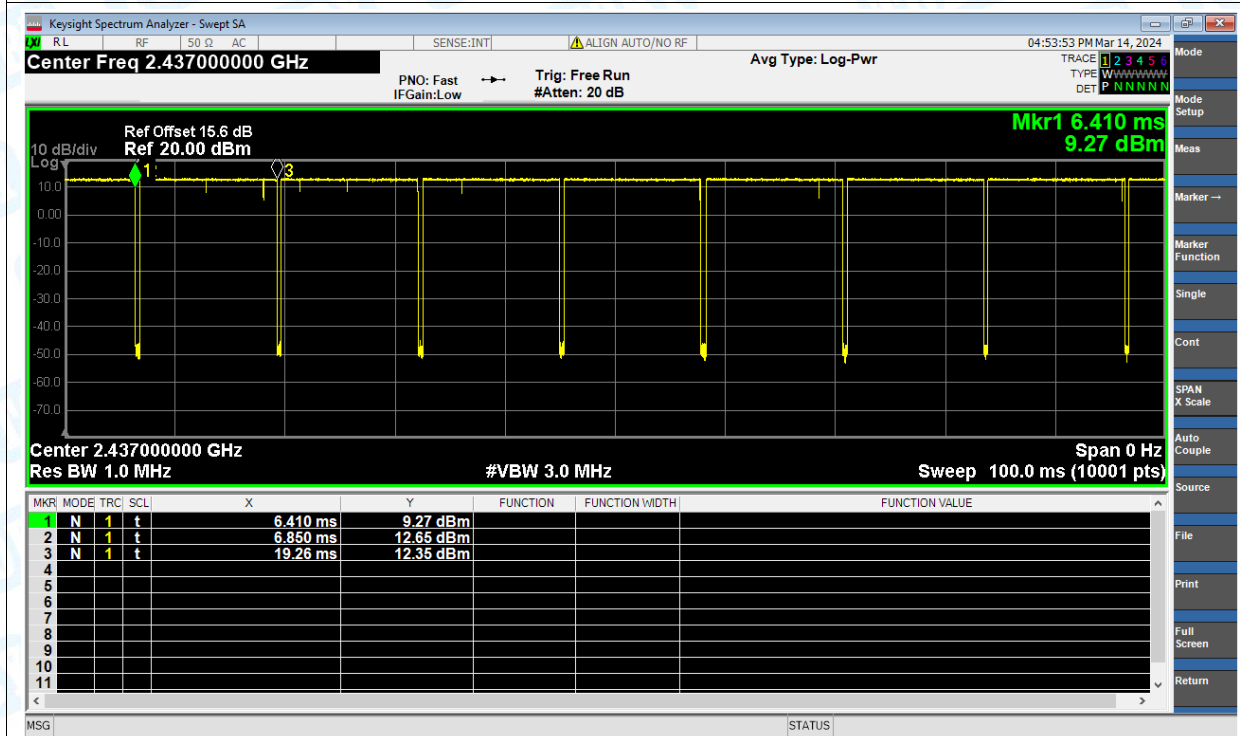
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	96.65	0.15	0.08
NVNT	b	2437	Ant1	96.58	0.15	0.08
NVNT	b	2462	Ant1	96.28	0.16	0.08
NVNT	g	2412	Ant1	80.24	0.96	0.49
NVNT	g	2437	Ant1	80.24	0.96	0.49
NVNT	g	2462	Ant1	80.24	0.96	0.49
NVNT	n(HT20)	2412	Ant1	79.08	1.02	0.53
NVNT	n(HT20)	2437	Ant1	79.08	1.02	0.53
NVNT	n(HT20)	2462	Ant1	79.08	1.02	0.53

Test Graphs

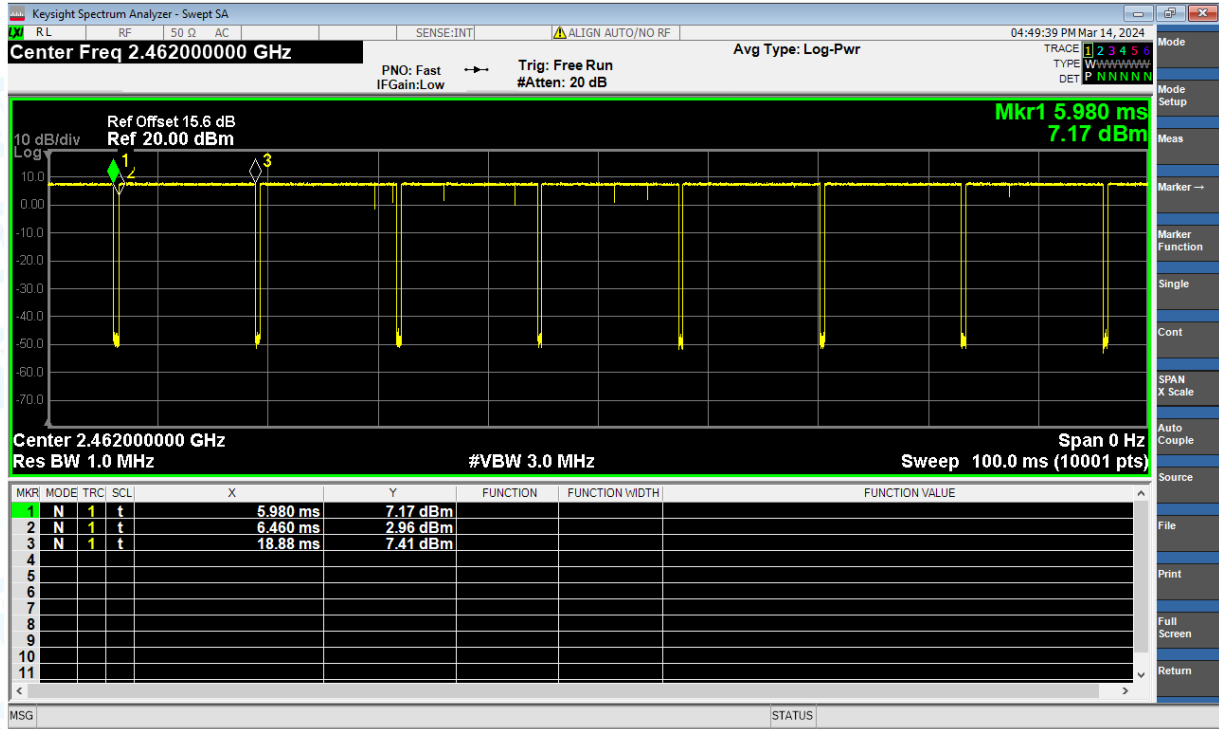
Duty Cycle NVNT b 2412MHz Ant1



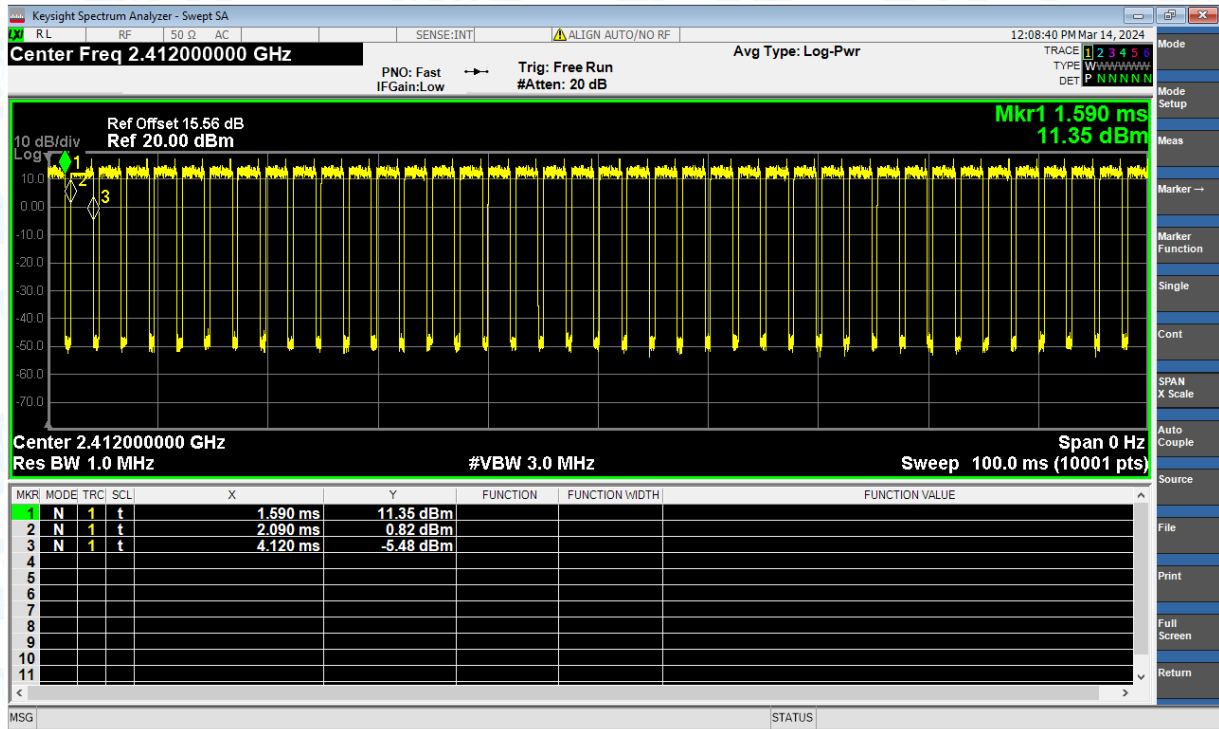
Duty Cycle NVNT b 2437MHz Ant1



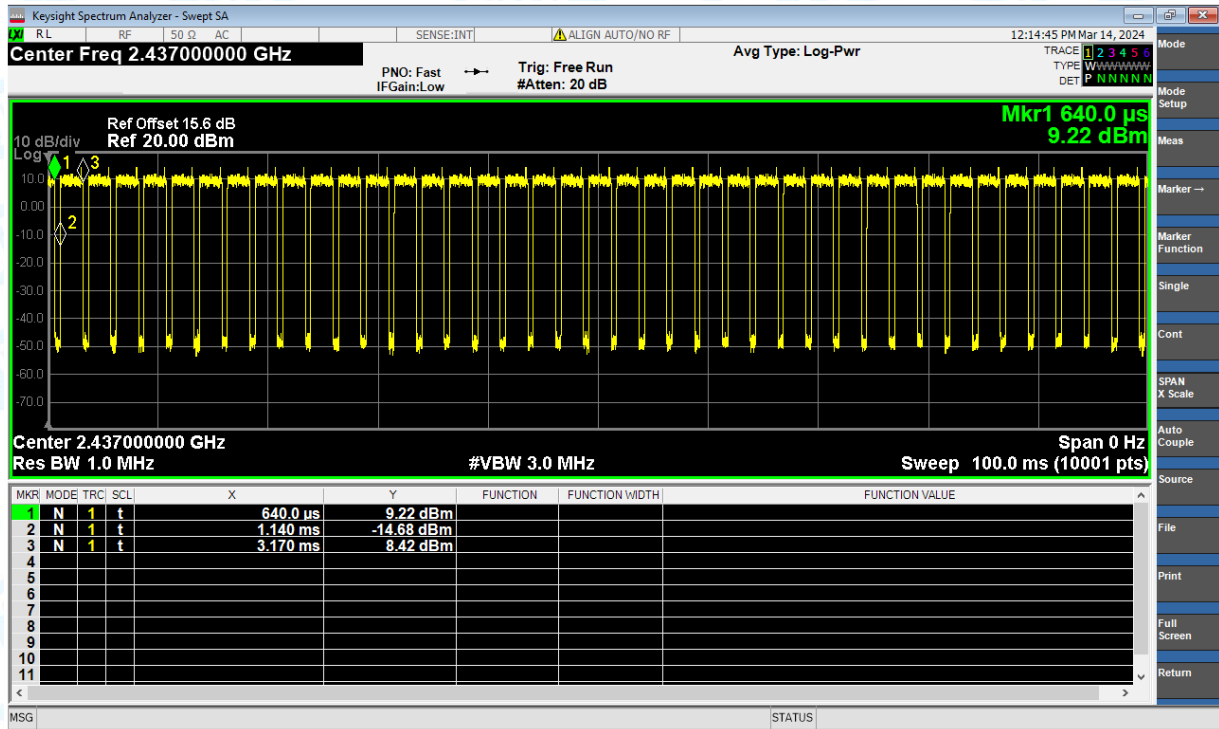
Duty Cycle NVNT b 2462MHz Ant1



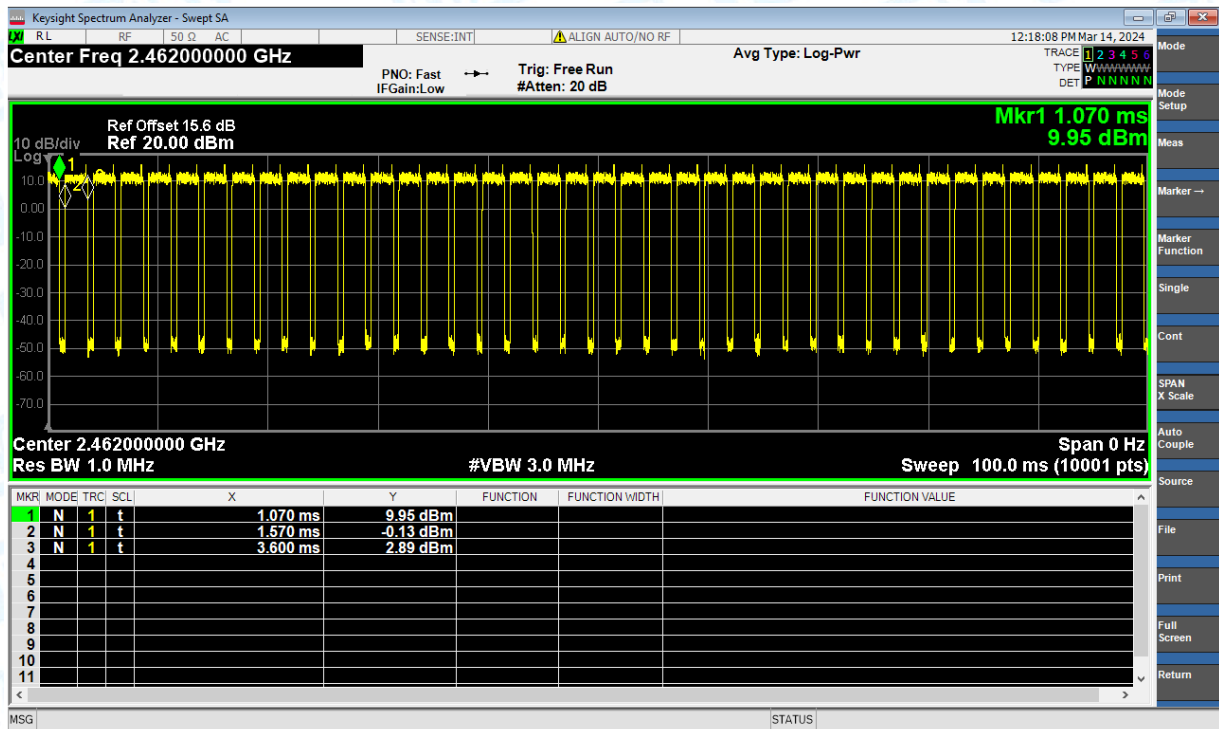
Duty Cycle NVNT g 2412MHz Ant1



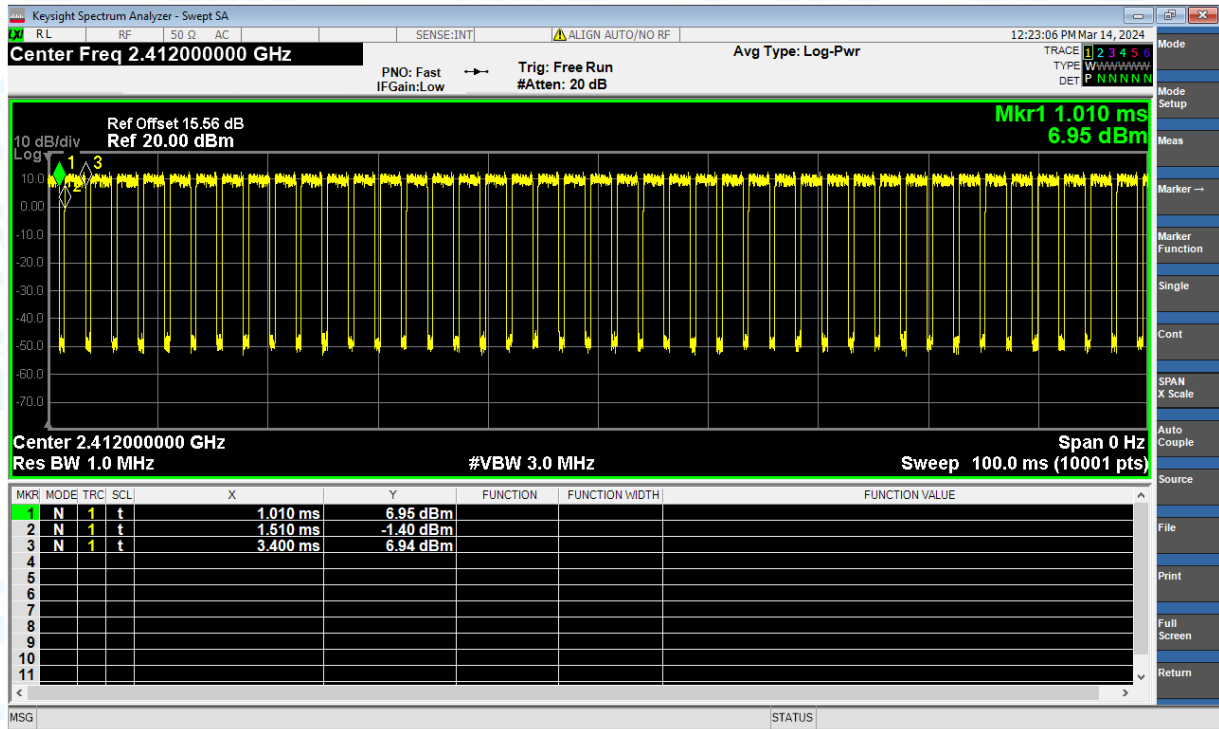
Duty Cycle NVNT g 2437MHz Ant1



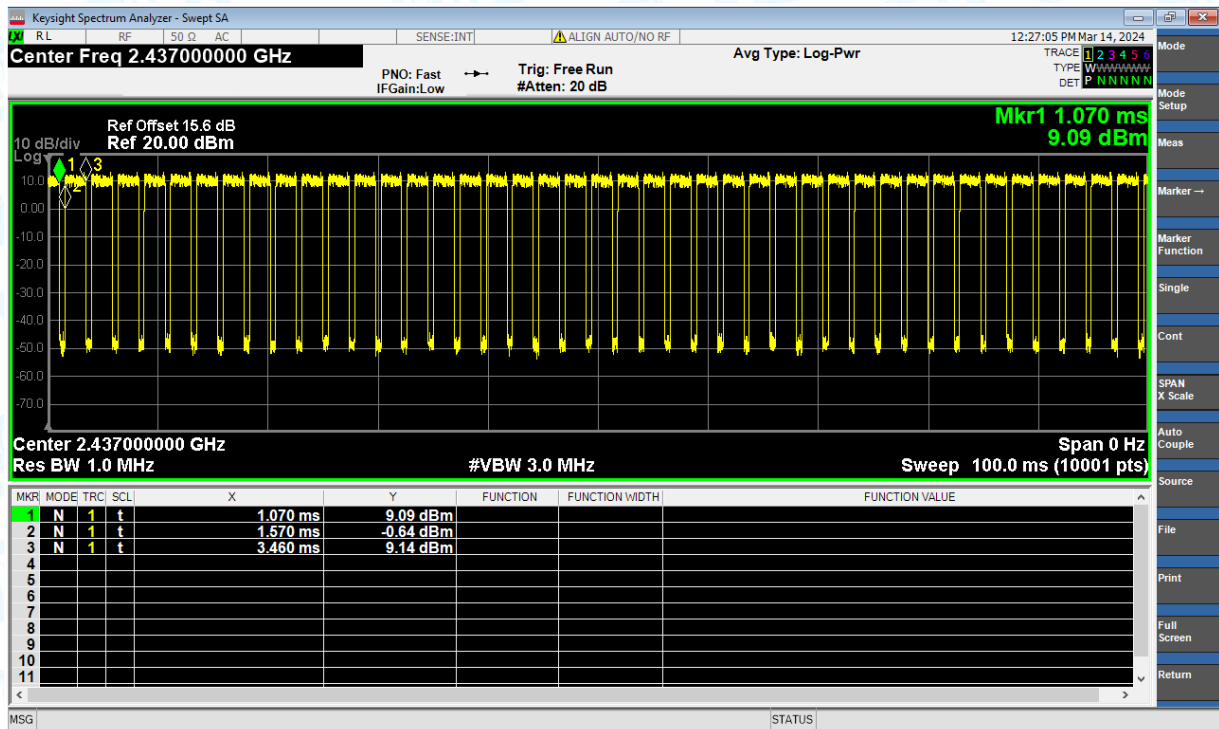
Duty Cycle NVNT g 2462MHz Ant1

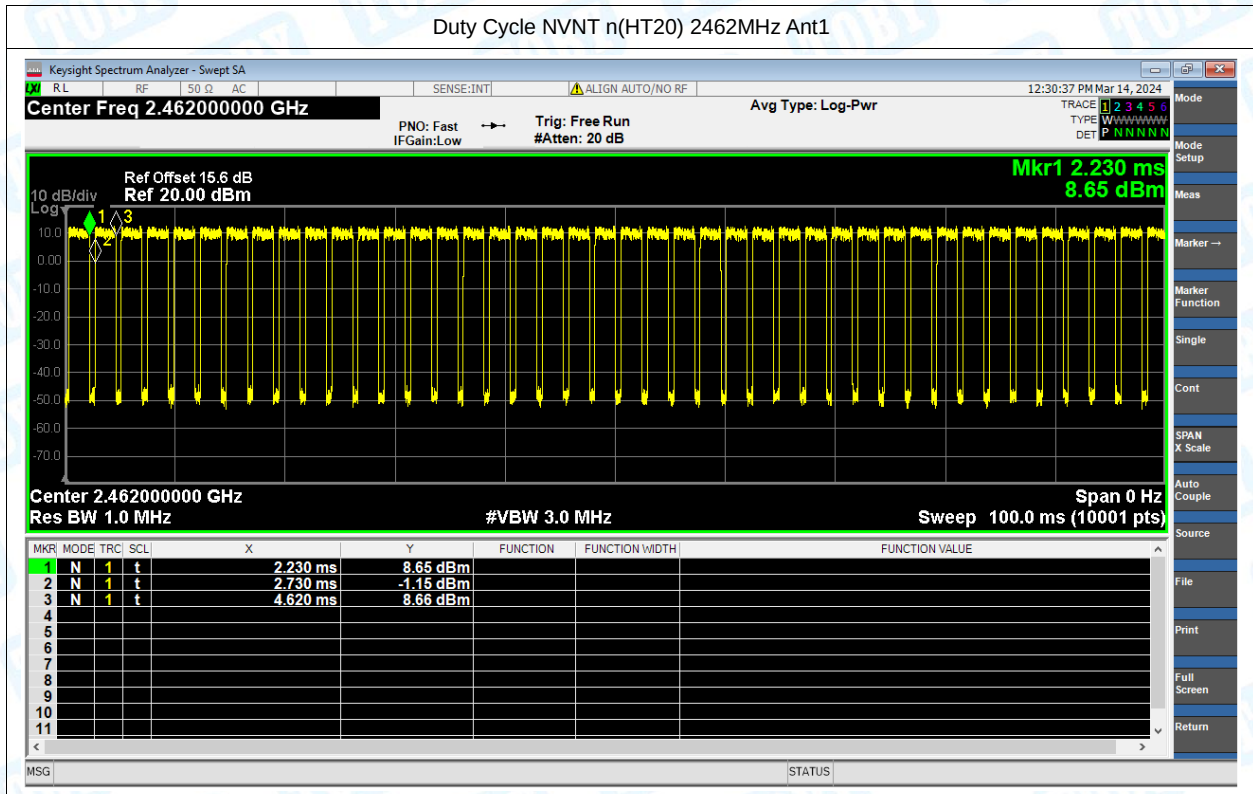


Duty Cycle NVNT n(HT20) 2412MHz Ant1



Duty Cycle NVNT n(HT20) 2437MHz Ant1





2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	16.76	30	Pass
NVNT	b	2437	Ant1	16.79	30	Pass
NVNT	b	2462	Ant1	16.20	30	Pass
NVNT	g	2412	Ant1	15.40	30	Pass
NVNT	g	2437	Ant1	15.56	30	Pass
NVNT	g	2462	Ant1	15.98	30	Pass
NVNT	n(HT20)	2412	Ant1	15.45	30	Pass
NVNT	n(HT20)	2437	Ant1	15.44	30	Pass
NVNT	n(HT20)	2462	Ant1	15.62	30	Pass

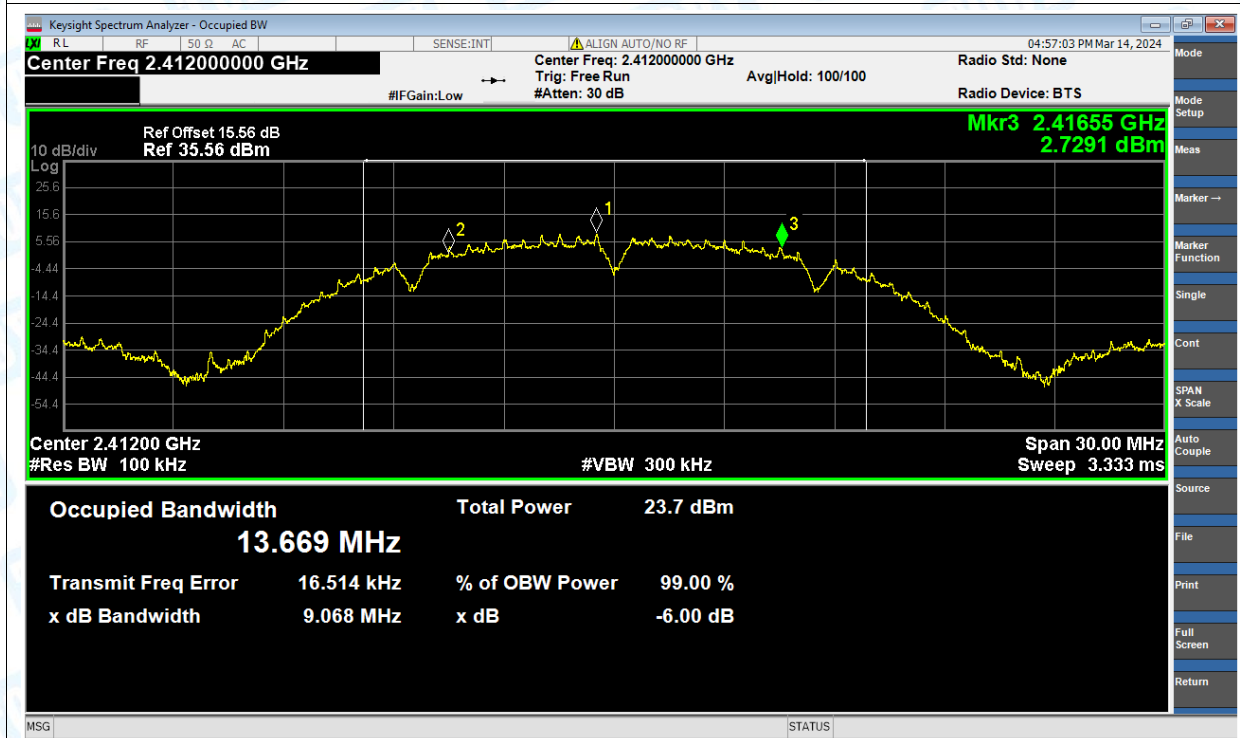
Note: The Duty Cycle Factor is compensated in the graph.

3. -6dB Bandwidth

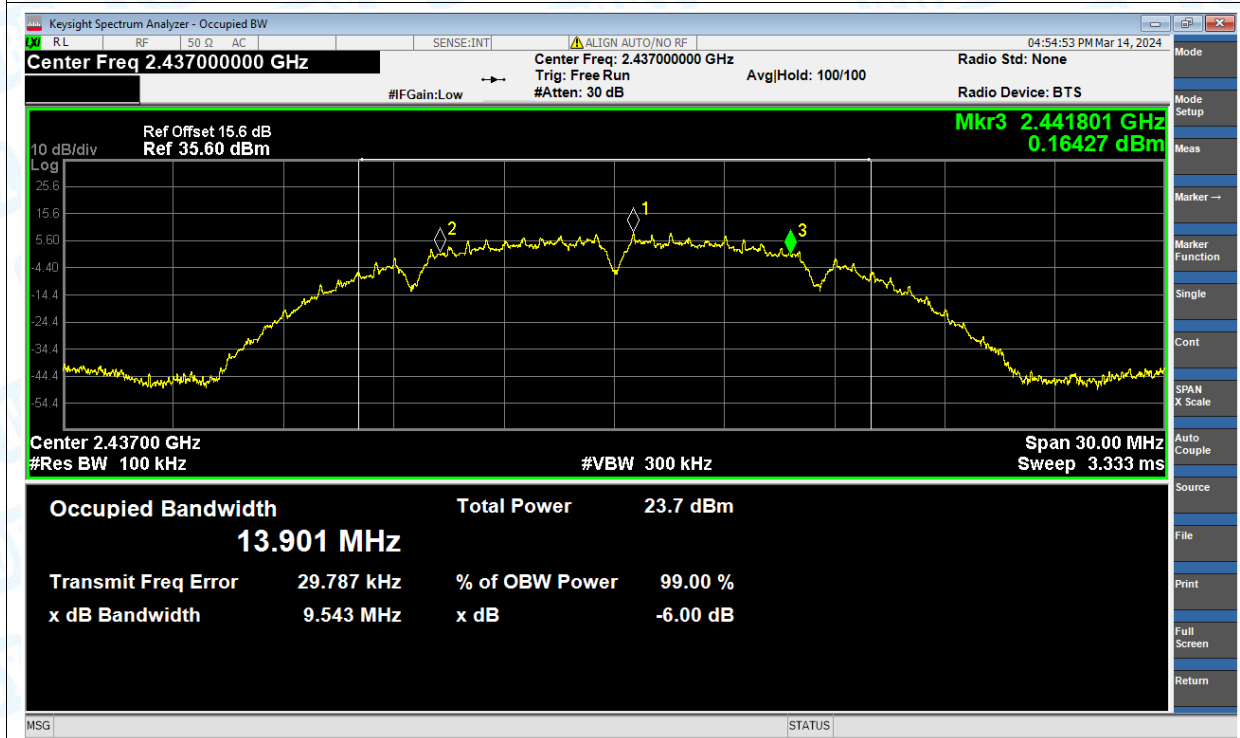
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.07	0.5	Pass
NVNT	b	2437	Ant1	9.54	0.5	Pass
NVNT	b	2462	Ant1	8.60	0.5	Pass
NVNT	g	2412	Ant1	13.15	0.5	Pass
NVNT	g	2437	Ant1	14.20	0.5	Pass
NVNT	g	2462	Ant1	13.14	0.5	Pass
NVNT	n(HT20)	2412	Ant1	12.87	0.5	Pass
NVNT	n(HT20)	2437	Ant1	14.19	0.5	Pass
NVNT	n(HT20)	2462	Ant1	13.87	0.5	Pass

Test Graphs

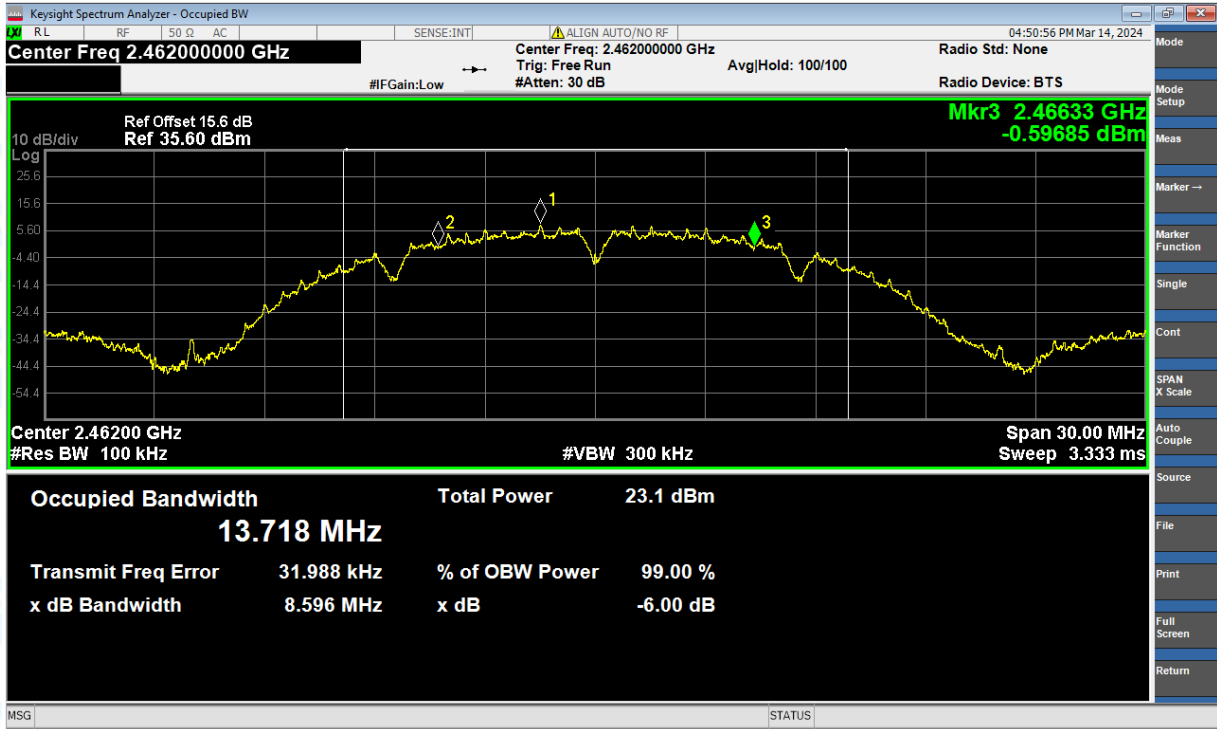
-6dB Bandwidth NVNT b 2412MHz Ant1



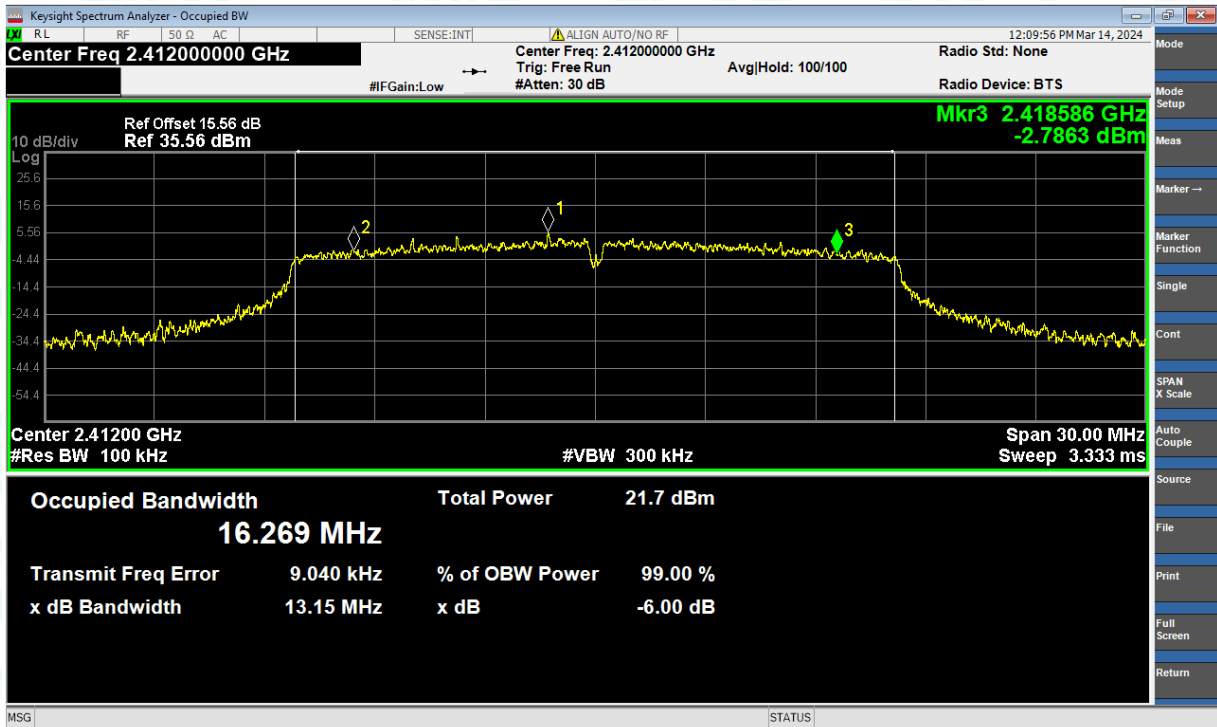
-6dB Bandwidth NVNT b 2437MHz Ant1



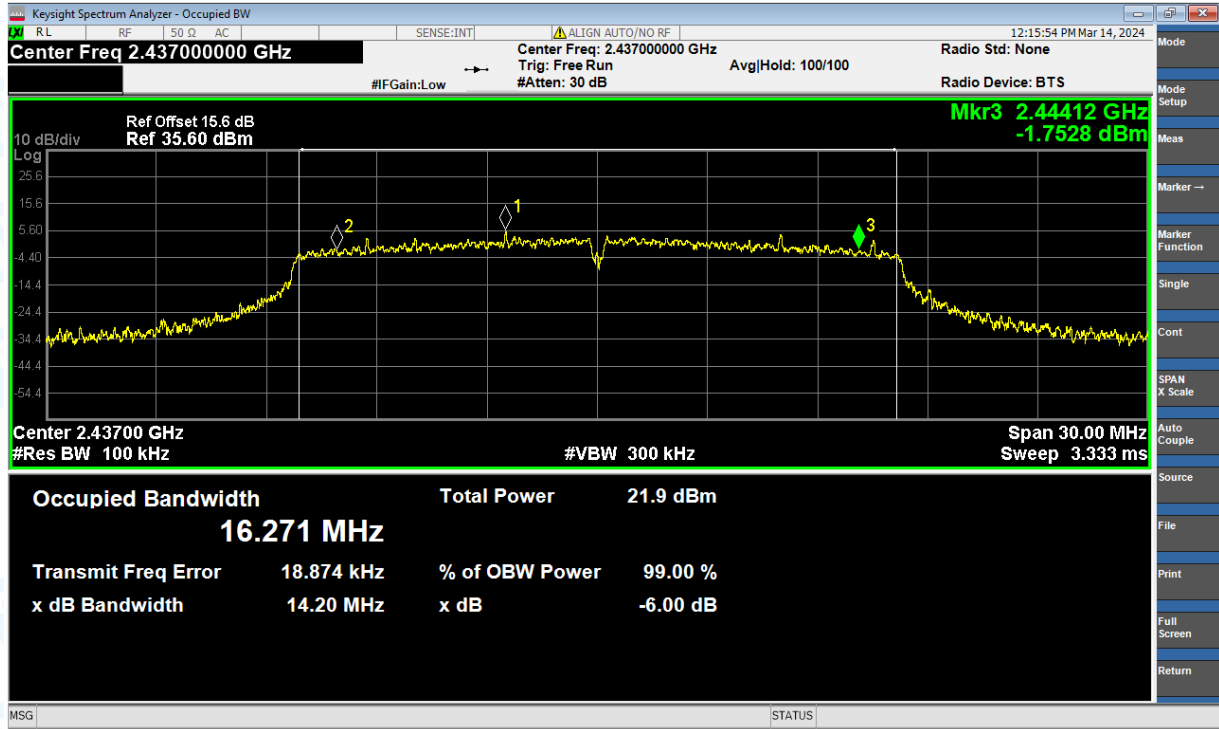
-6dB Bandwidth NVNT b 2462MHz Ant1



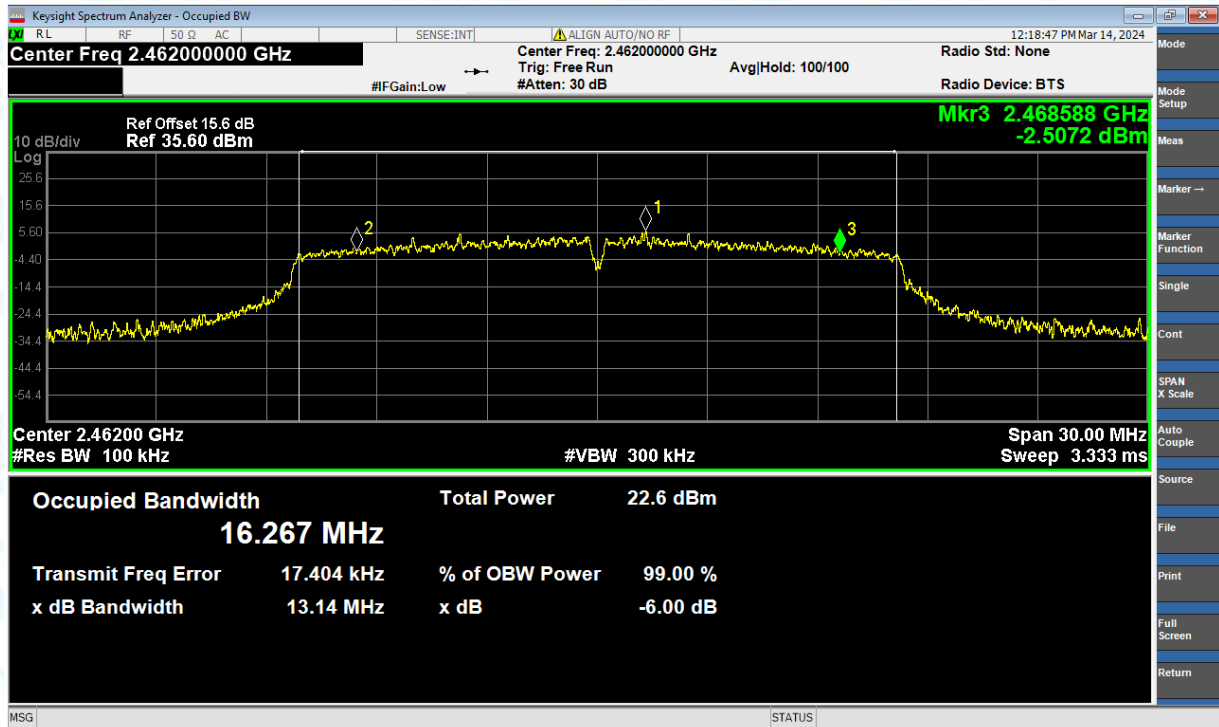
-6dB Bandwidth NVNT g 2412MHz Ant1



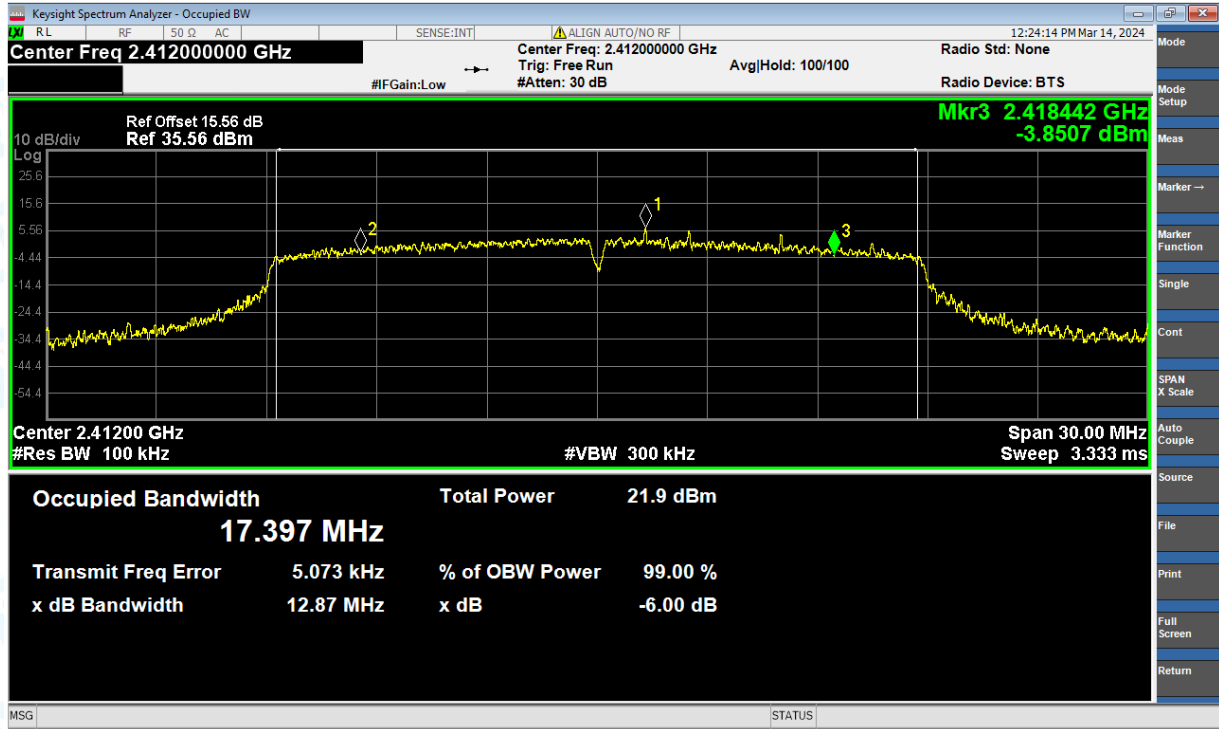
-6dB Bandwidth NVNT g 2437MHz Ant1



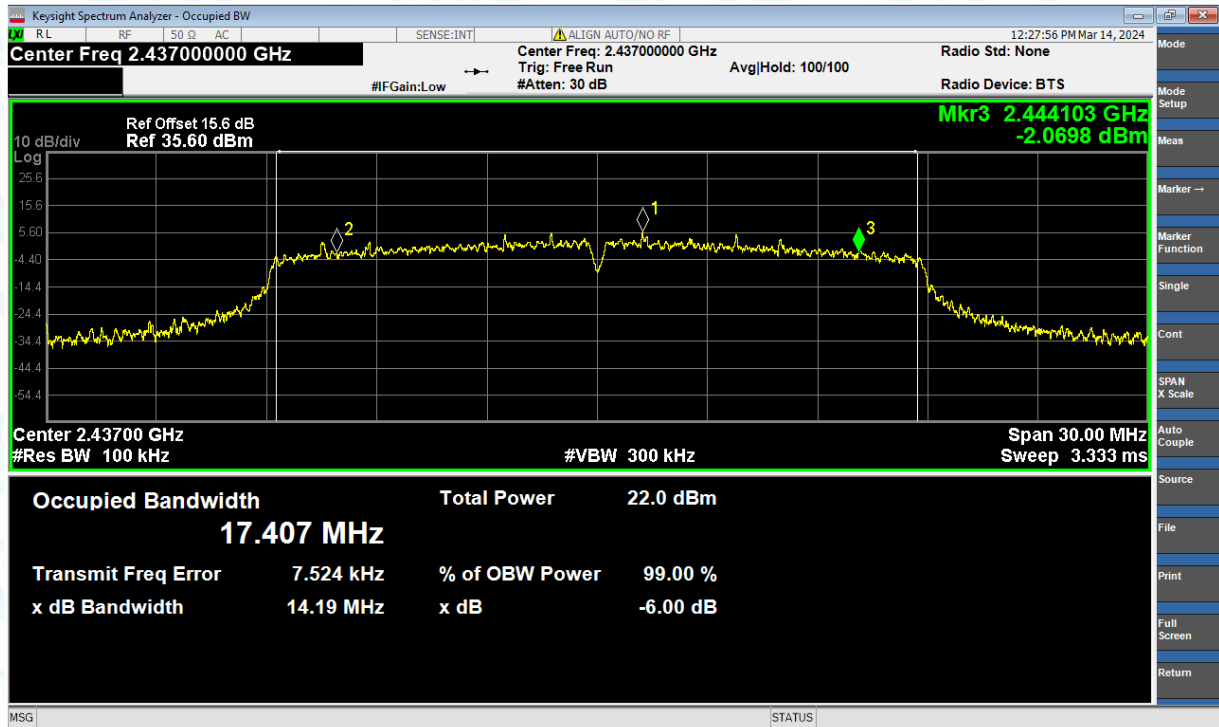
-6dB Bandwidth NVNT g 2462MHz Ant1

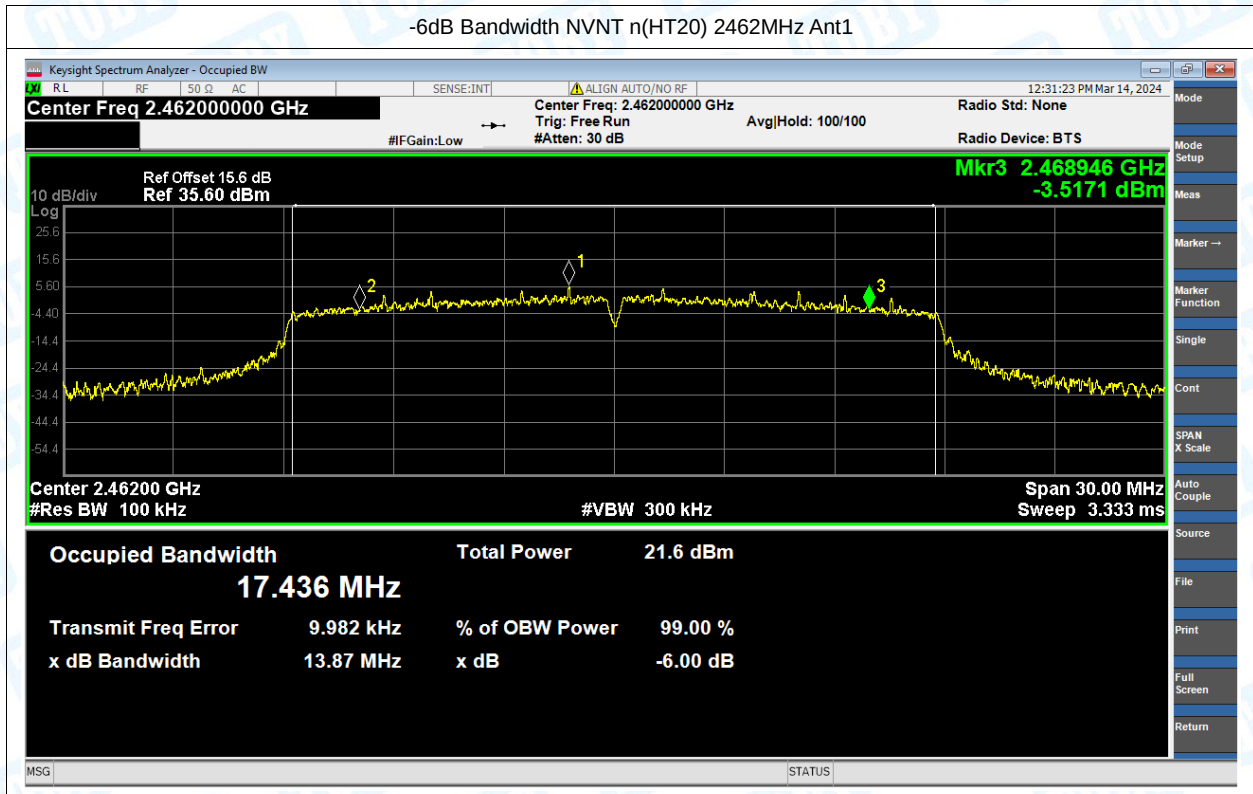


-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



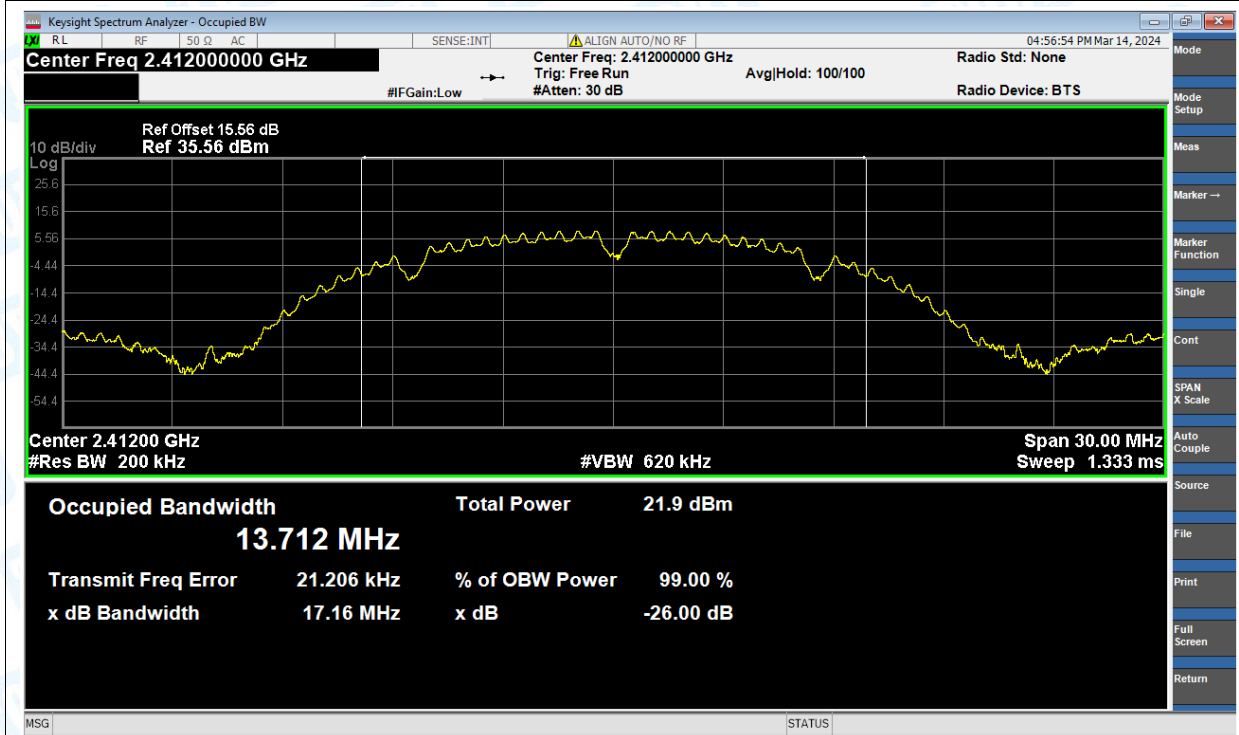


4. Occupied Channel Bandwidth

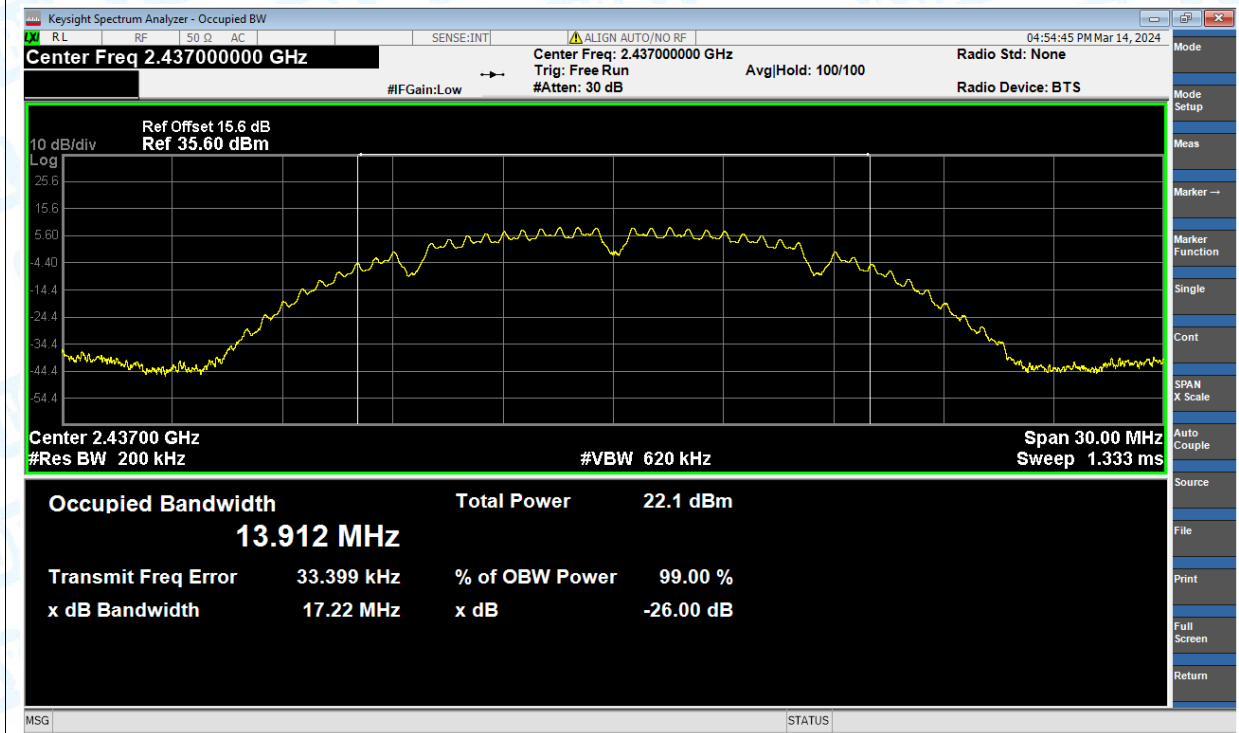
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.712
NVNT	b	2437	Ant1	13.912
NVNT	b	2462	Ant1	13.737
NVNT	g	2412	Ant1	16.281
NVNT	g	2437	Ant1	16.267
NVNT	g	2462	Ant1	16.281
NVNT	n(HT20)	2412	Ant1	17.409
NVNT	n(HT20)	2437	Ant1	17.386
NVNT	n(HT20)	2462	Ant1	17.411

Test Graphs

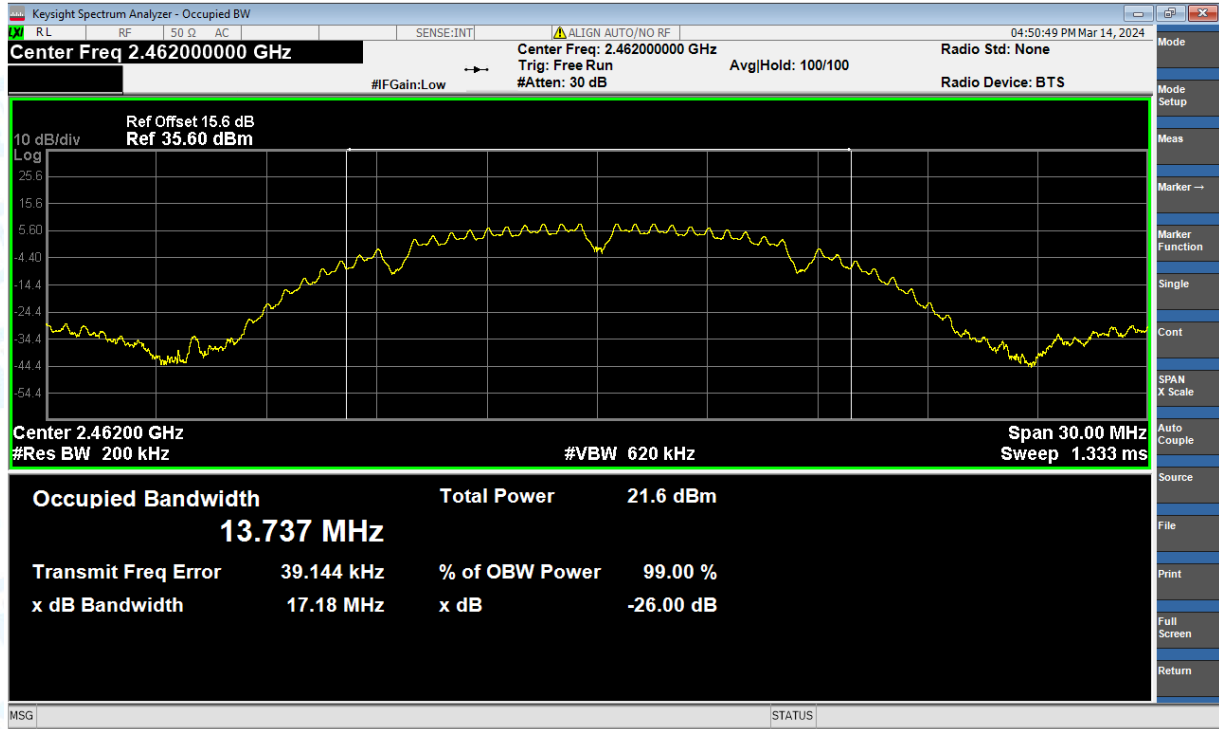
OBW NVNT b 2412MHz Ant1



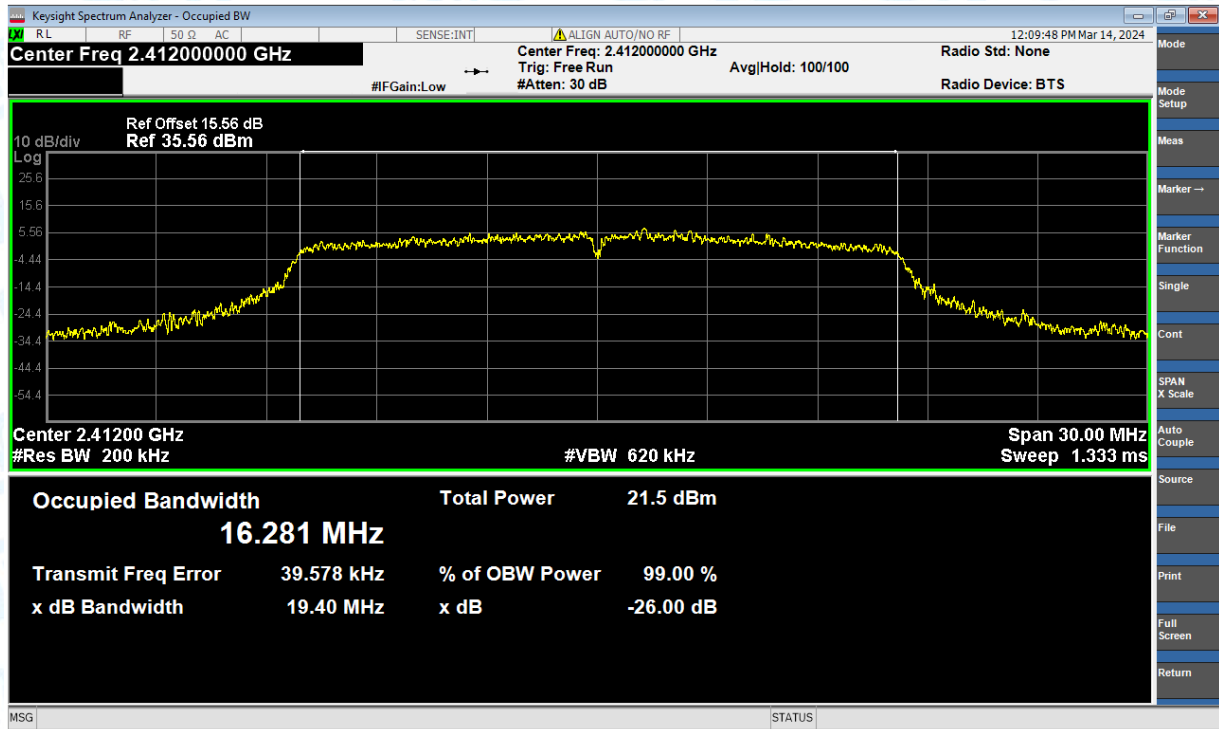
OBW NVNT b 2437MHz Ant1



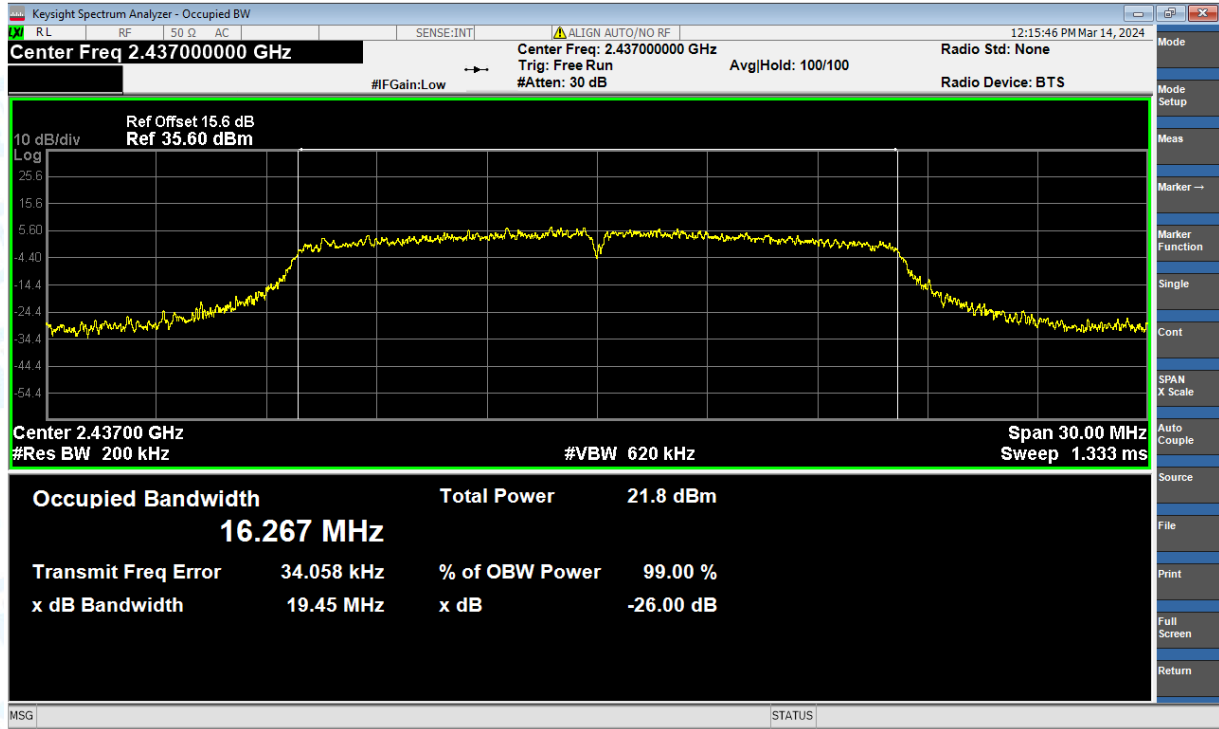
OBW NVNT b 2462MHz Ant1



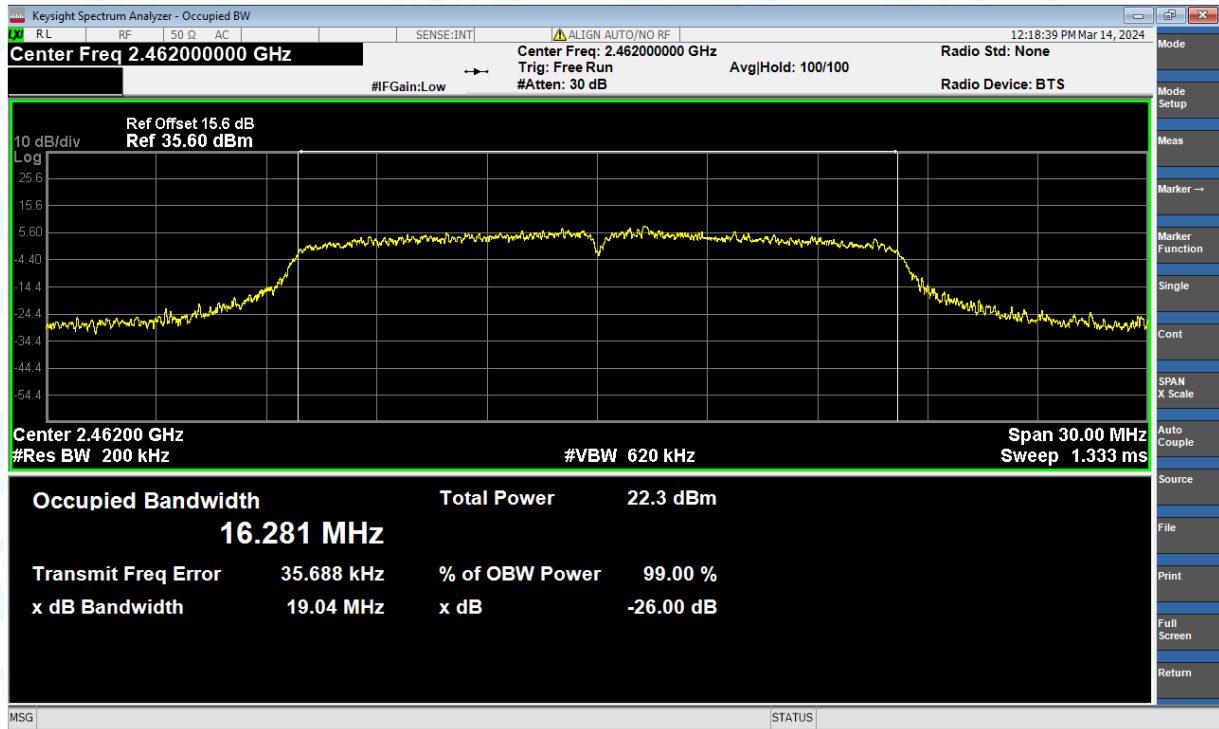
OBW NVNT g 2412MHz Ant1



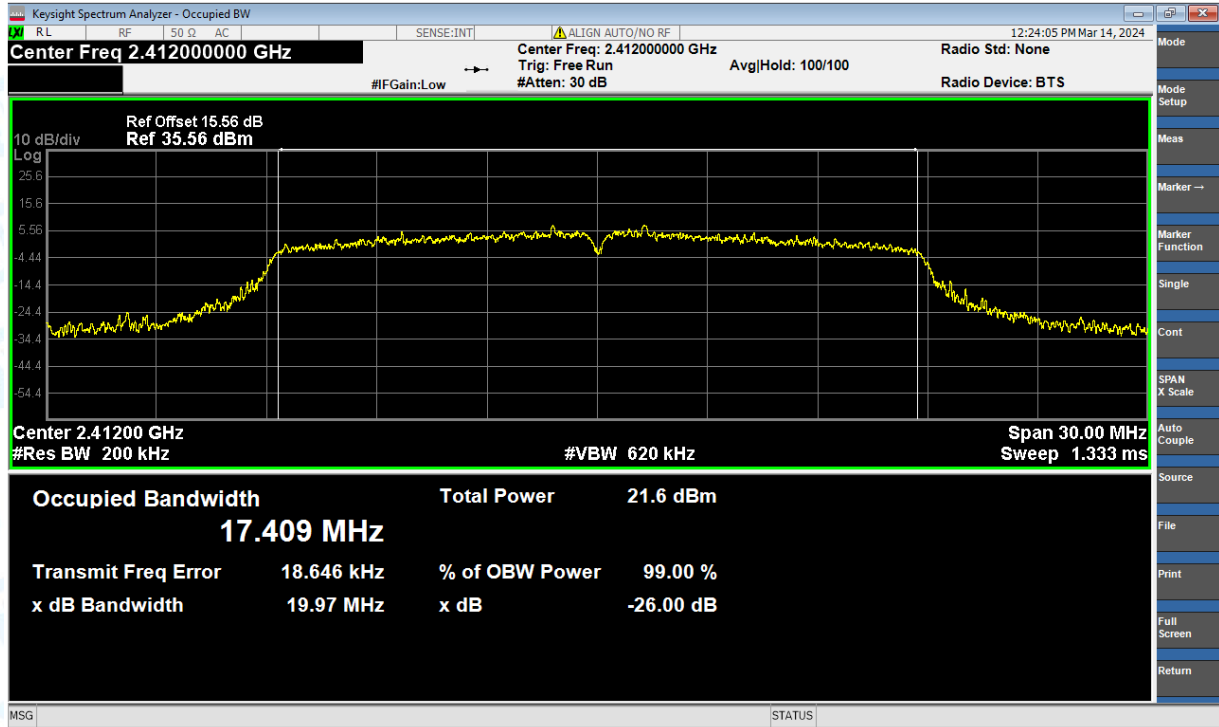
OBW NVNT g 2437MHz Ant1



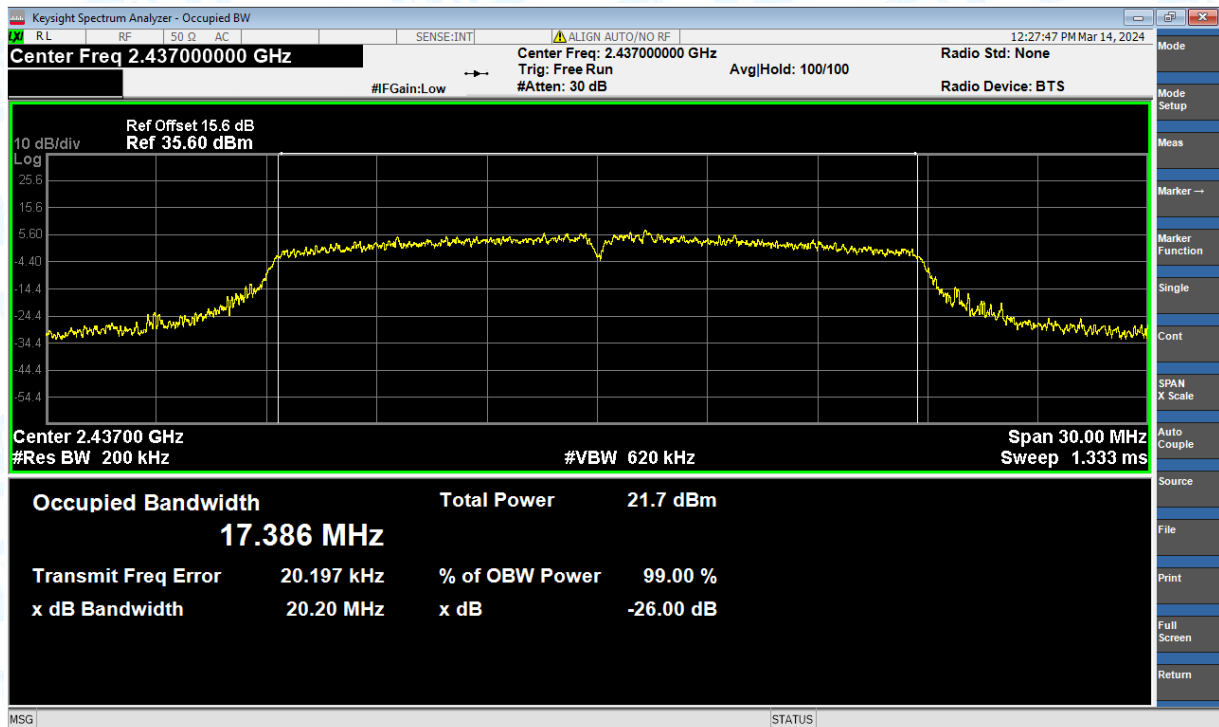
OBW NVNT g 2462MHz Ant1

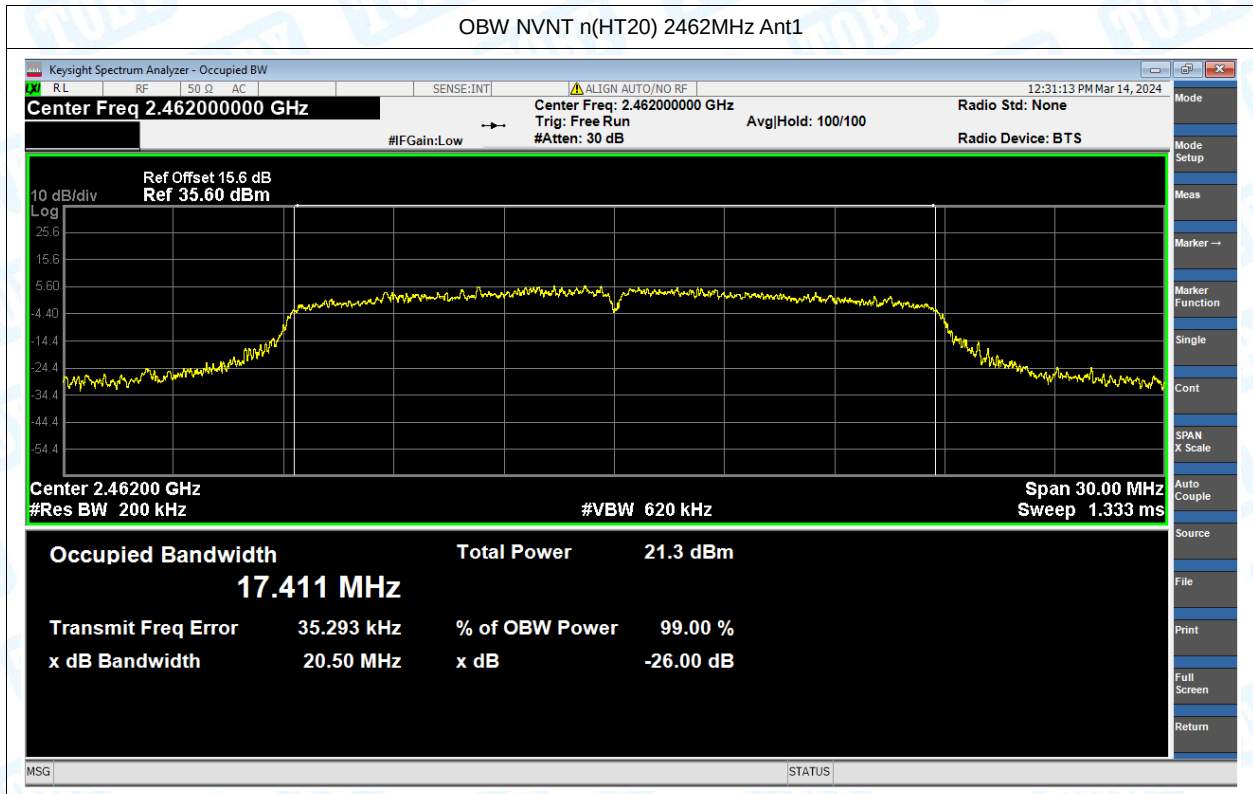


OBW NVNT n(HT20) 2412MHz Ant1



OBW NVNT n(HT20) 2437MHz Ant1





5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-15.113	8	Pass
NVNT	b	2437	Ant1	-13.474	8	Pass
NVNT	b	2462	Ant1	-15.101	8	Pass
NVNT	g	2412	Ant1	-17.189	8	Pass
NVNT	g	2437	Ant1	-17.380	8	Pass
NVNT	g	2462	Ant1	-16.561	8	Pass
NVNT	n(HT20)	2412	Ant1	-17.135	8	Pass
NVNT	n(HT20)	2437	Ant1	-17.196	8	Pass
NVNT	n(HT20)	2462	Ant1	-17.258	8	Pass

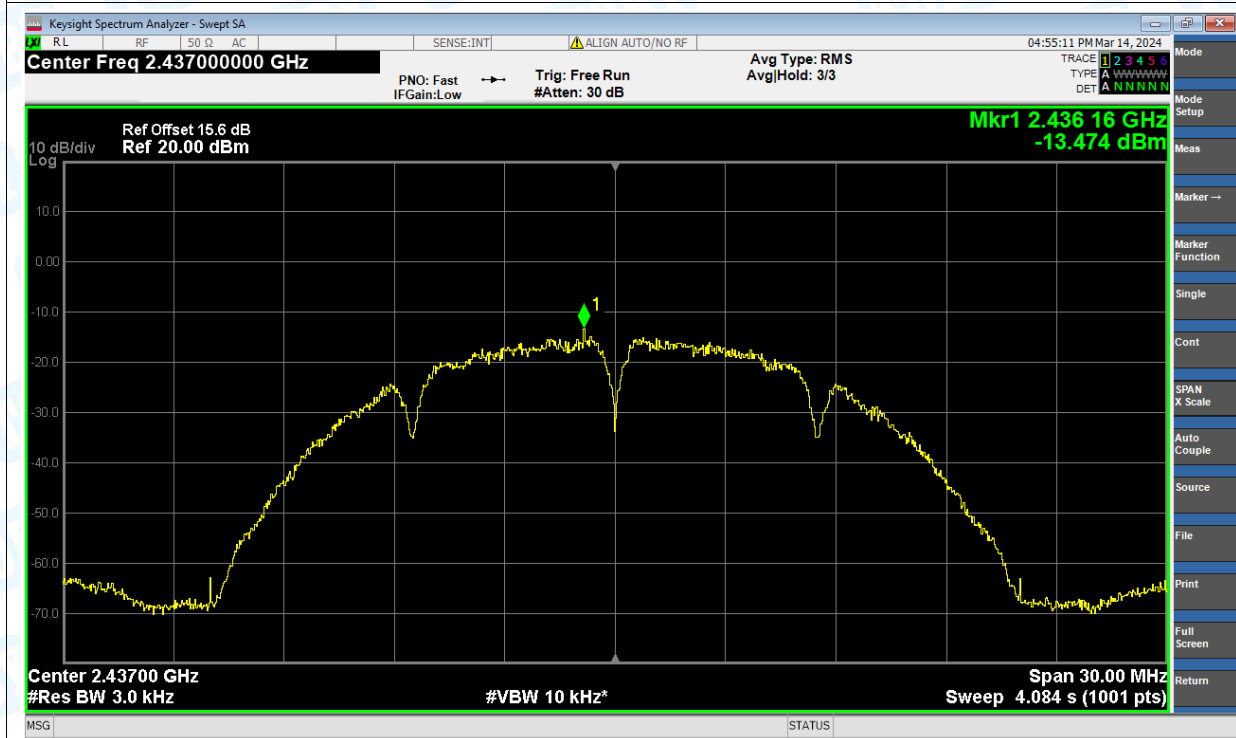
Note: The Duty Cycle Factor is compensated in the graph.

Test Graphs

PSD NVNT b 2412MHz Ant1



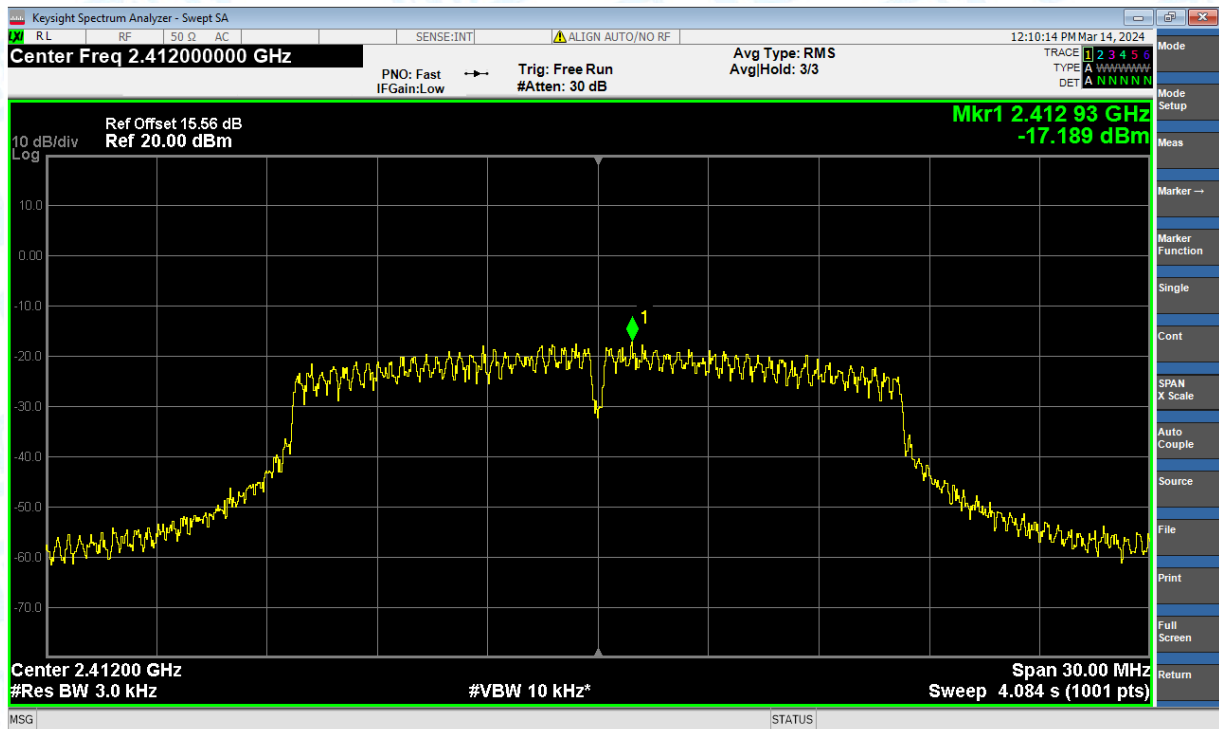
PSD NVNT b 2437MHz Ant1



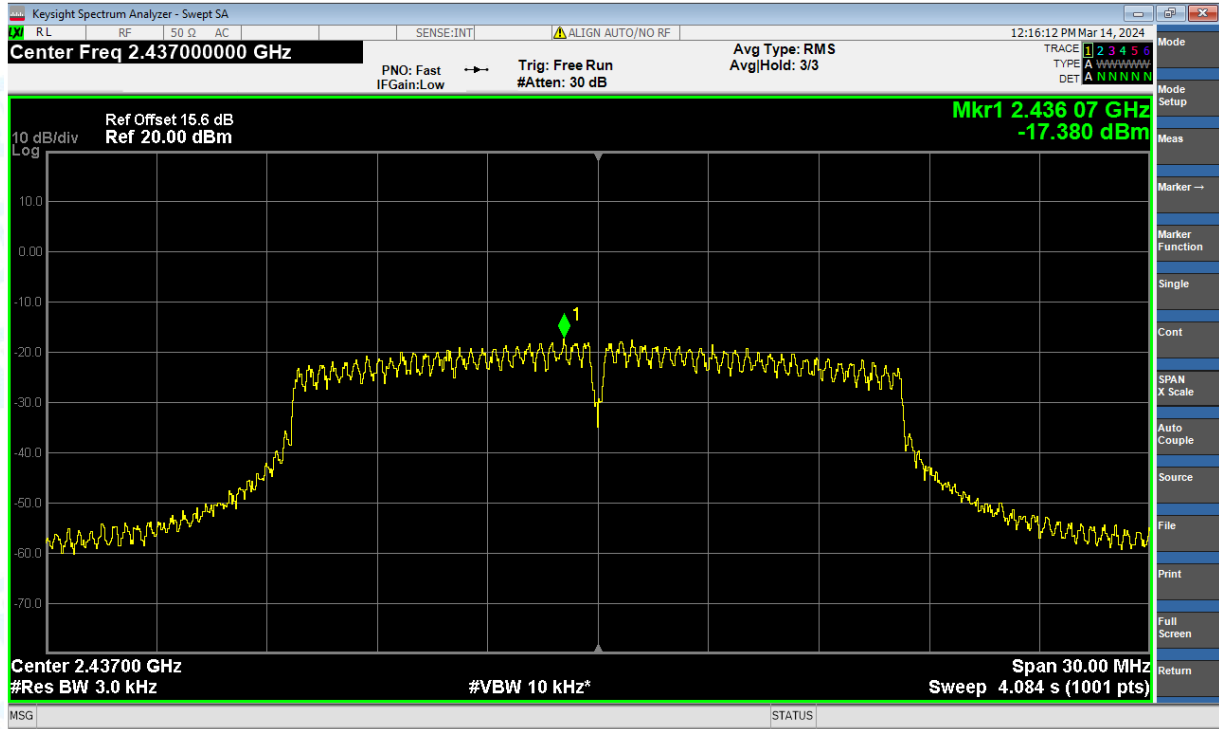
PSD NVNT b 2462MHz Ant1



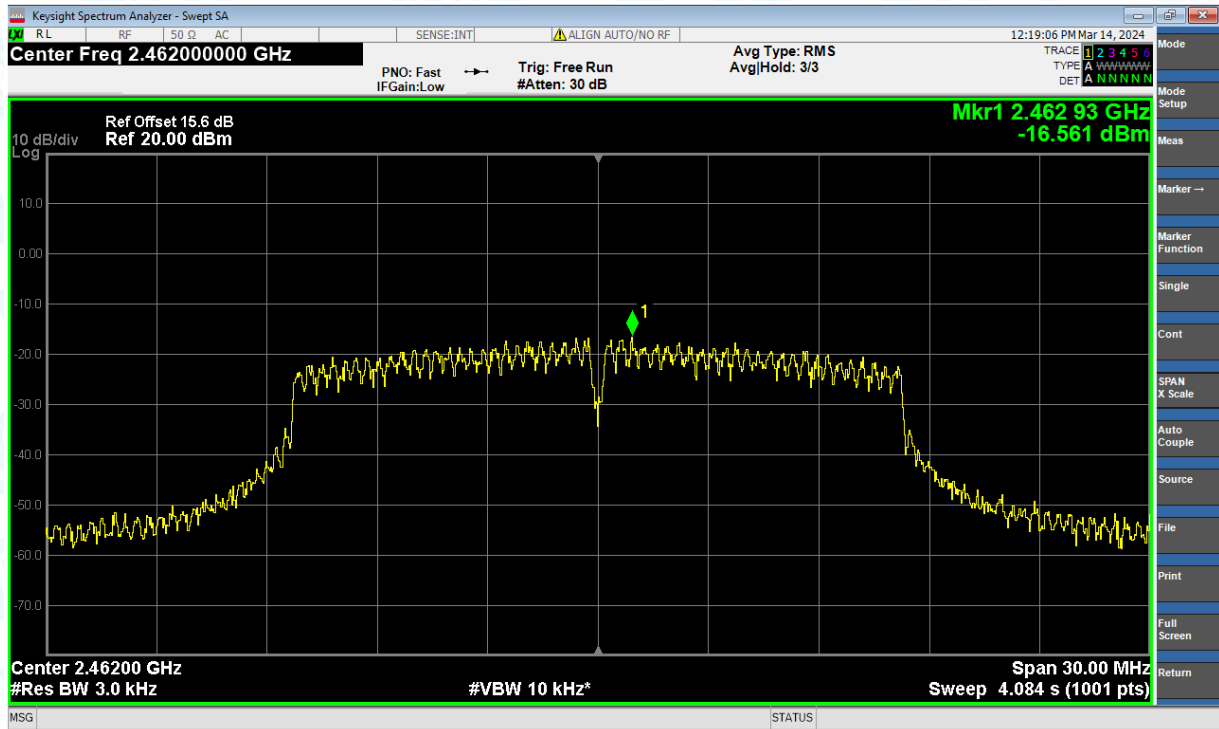
PSD NVNT g 2412MHz Ant1



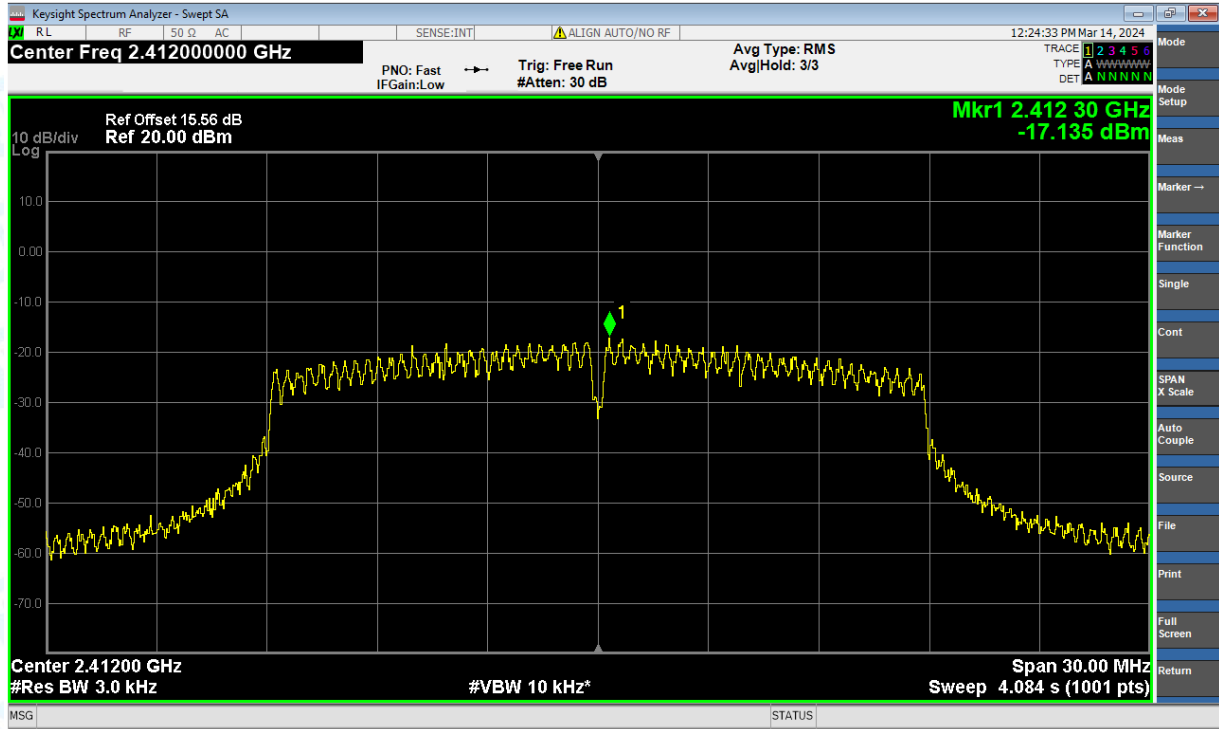
PSD NVNT g 2437MHz Ant1



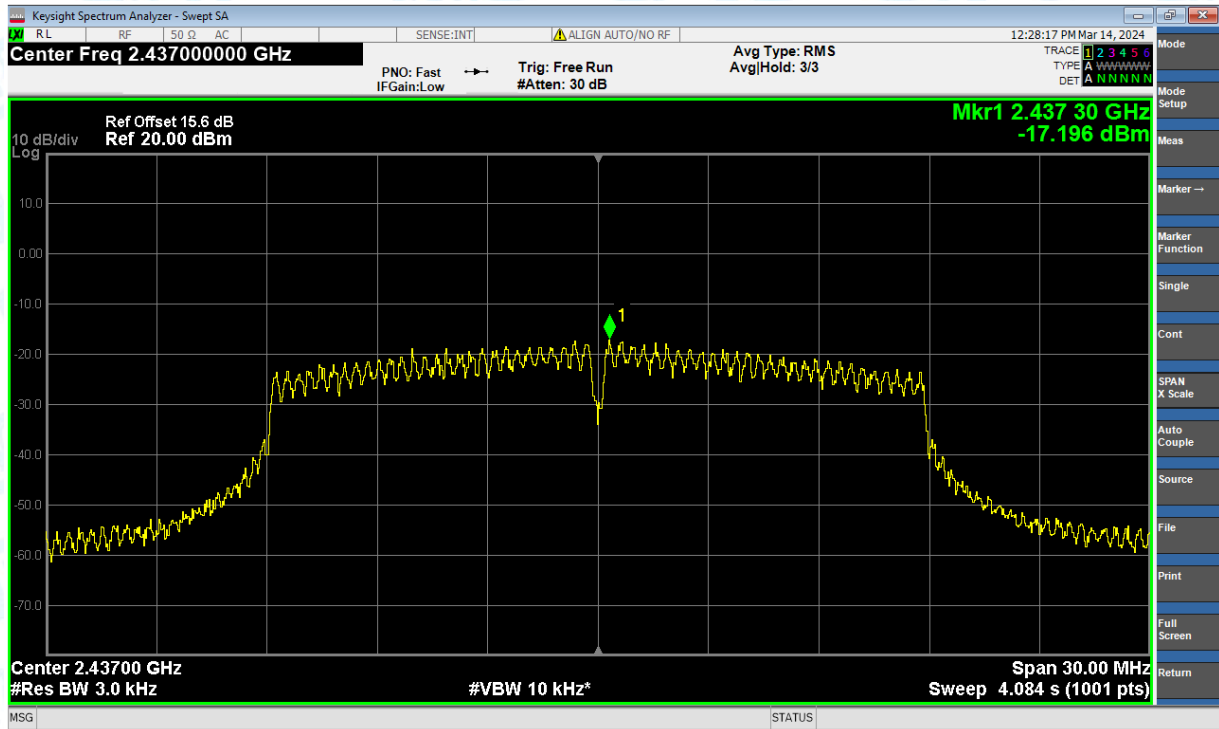
PSD NVNT g 2462MHz Ant1

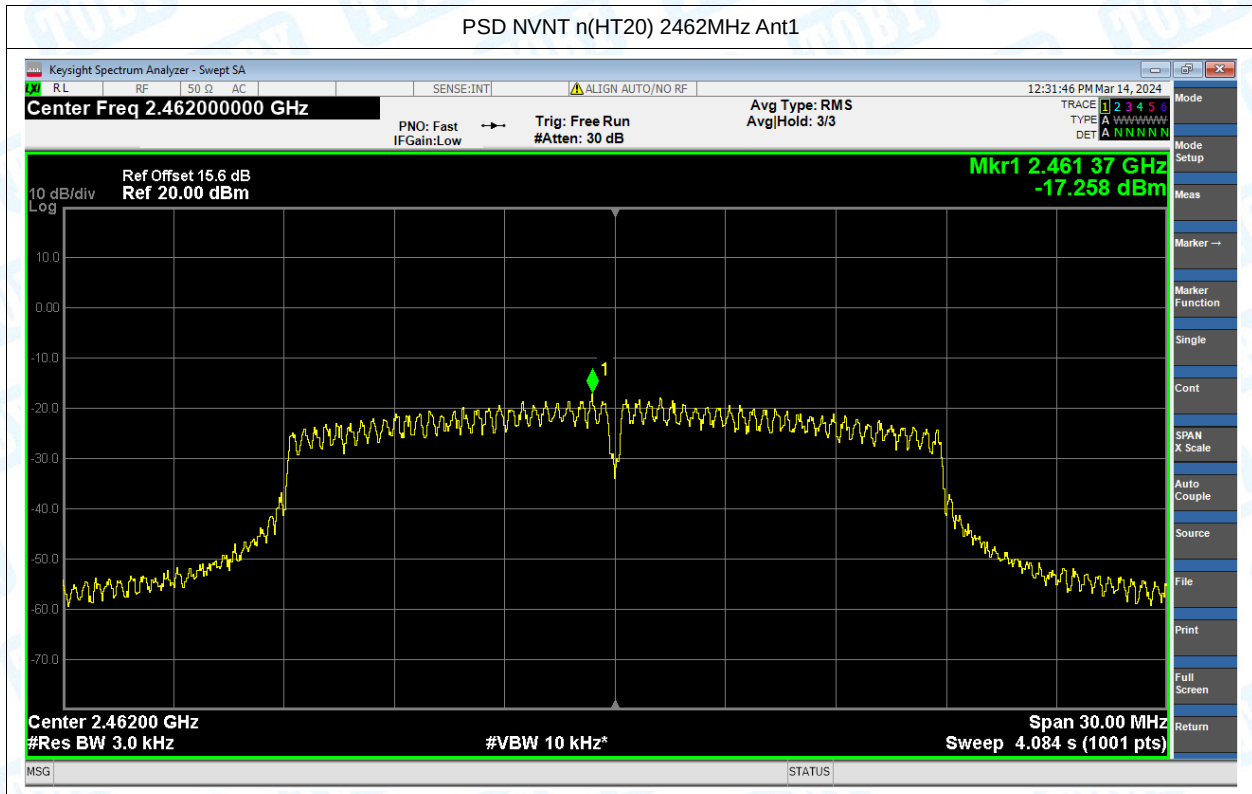


PSD NVNT n(HT20) 2412MHz Ant1



PSD NVNT n(HT20) 2437MHz Ant1



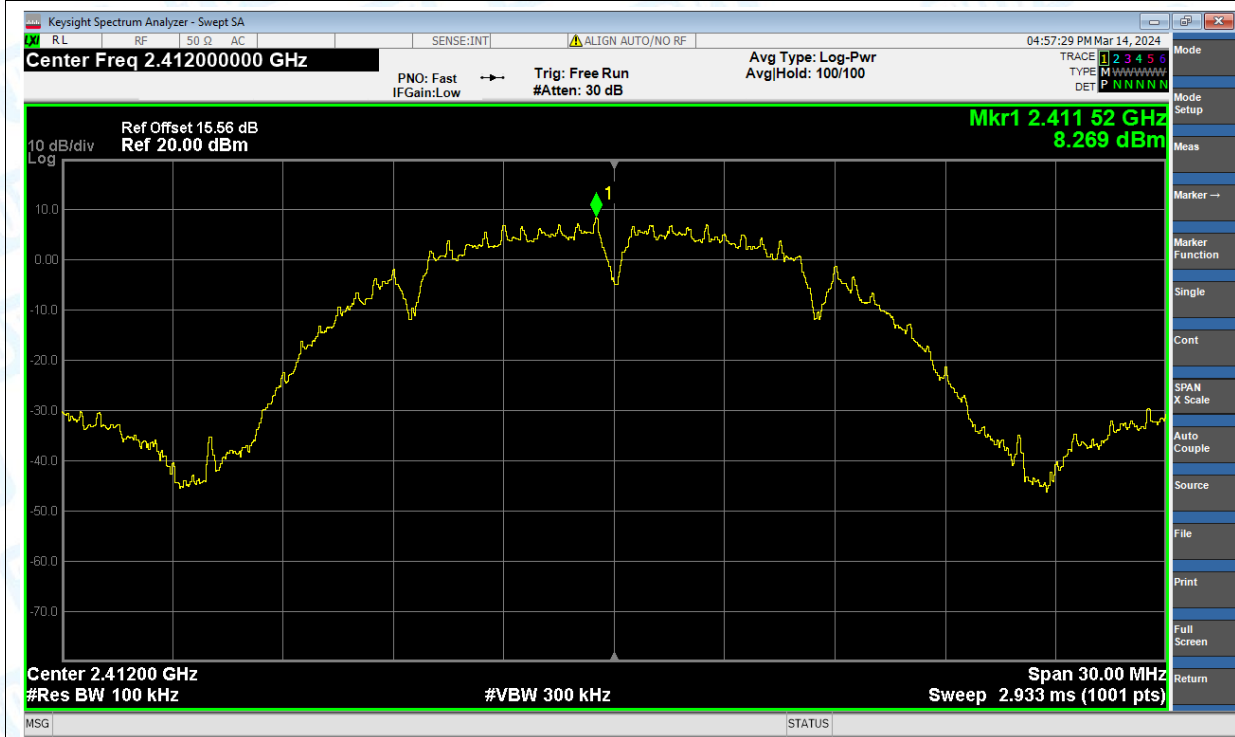


6. Band Edge

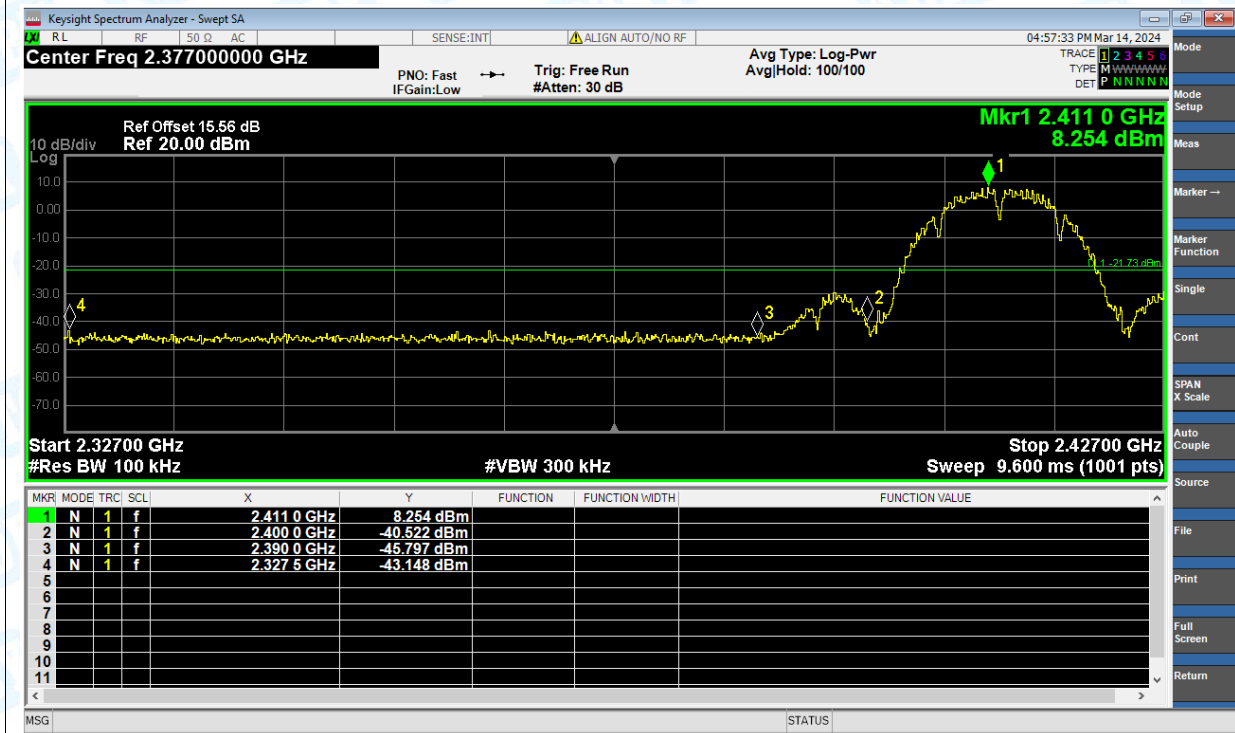
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-51.42	-30	Pass
NVNT	b	2462	Ant1	-51.54	-30	Pass
NVNT	g	2412	Ant1	-44.20	-30	Pass
NVNT	g	2462	Ant1	-41.14	-30	Pass
NVNT	n(HT20)	2412	Ant1	-41.11	-30	Pass
NVNT	n(HT20)	2462	Ant1	-40.98	-30	Pass

Test Graphs

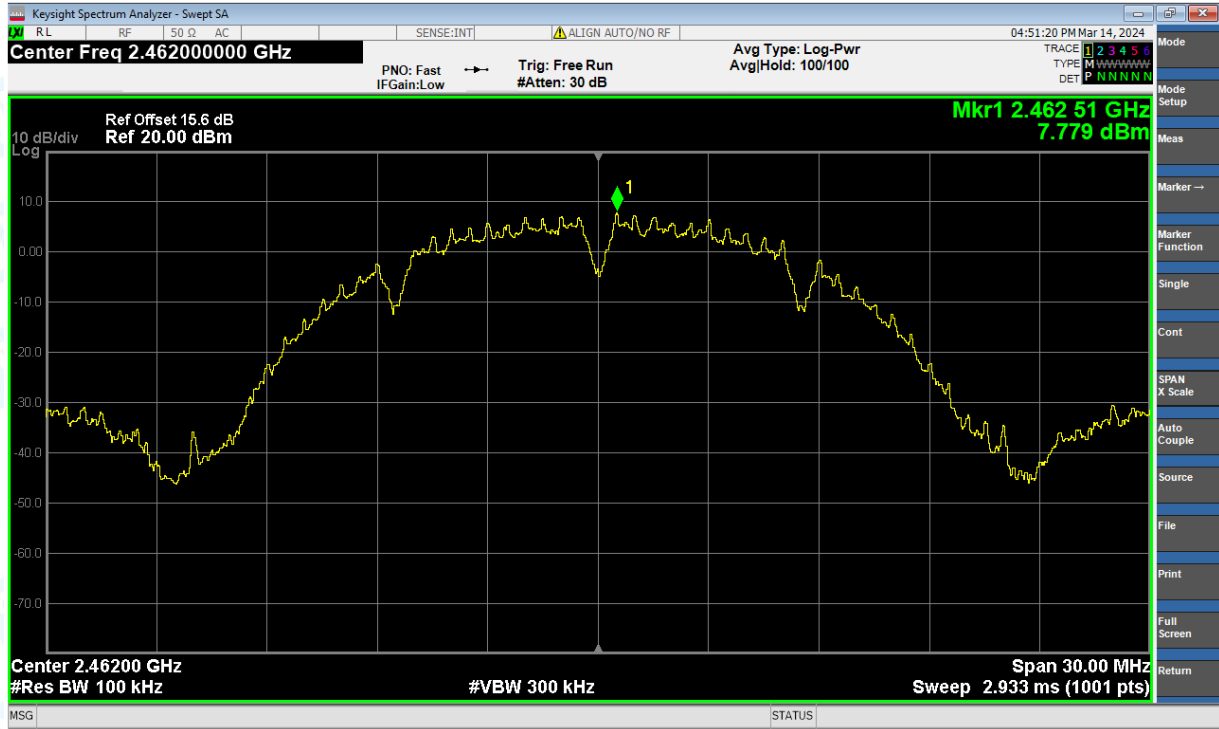
Band Edge NVNT b 2412MHz Ant1 Ref



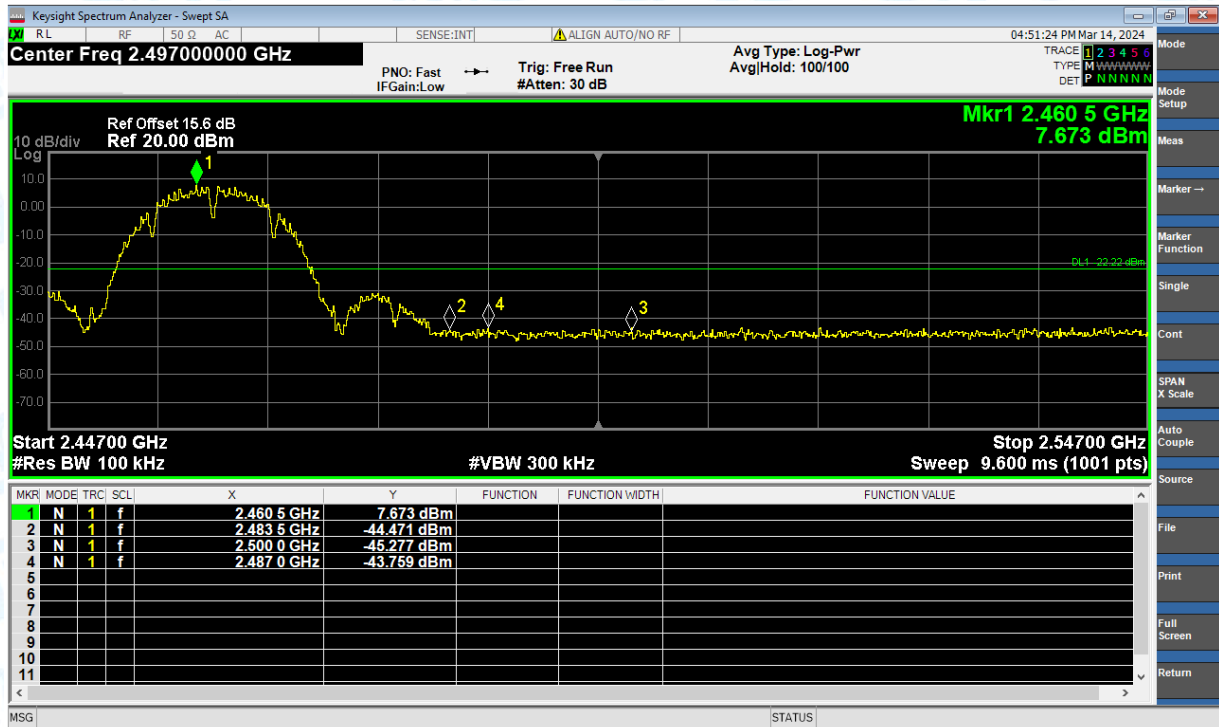
Band Edge NVNT b 2412MHz Ant1 Emission



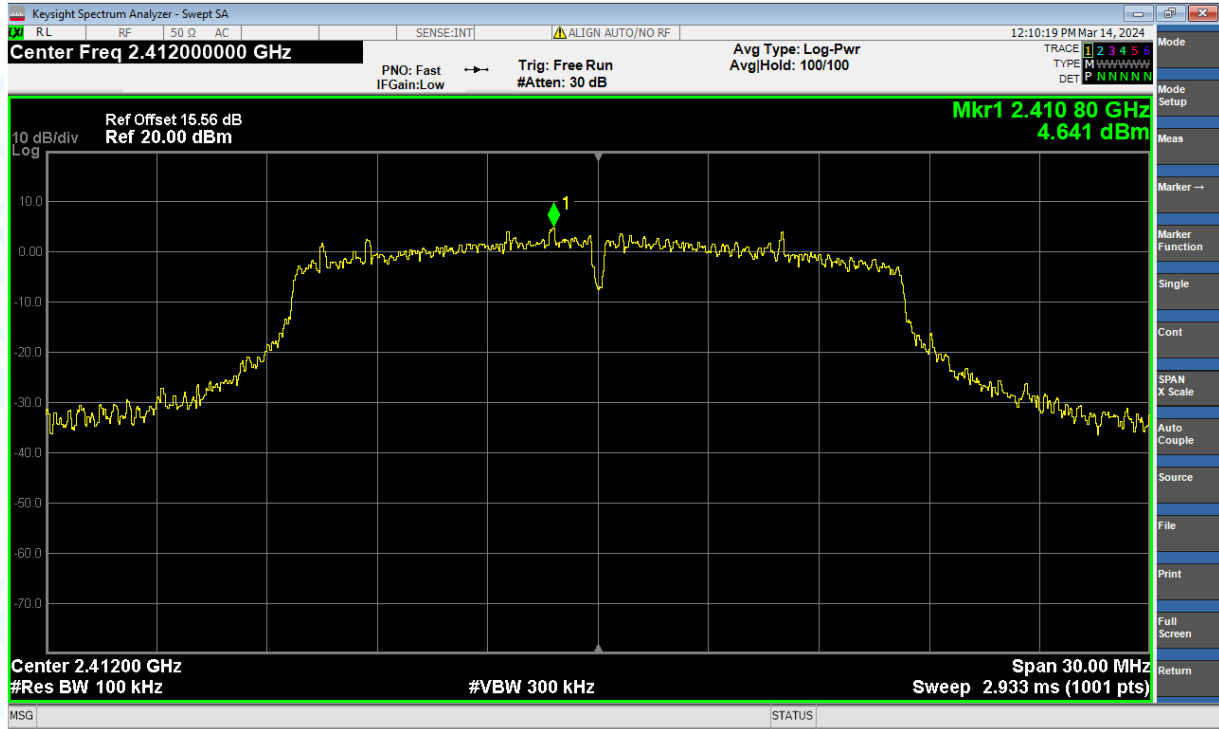
Band Edge NVNT b 2462MHz Ant1 Ref



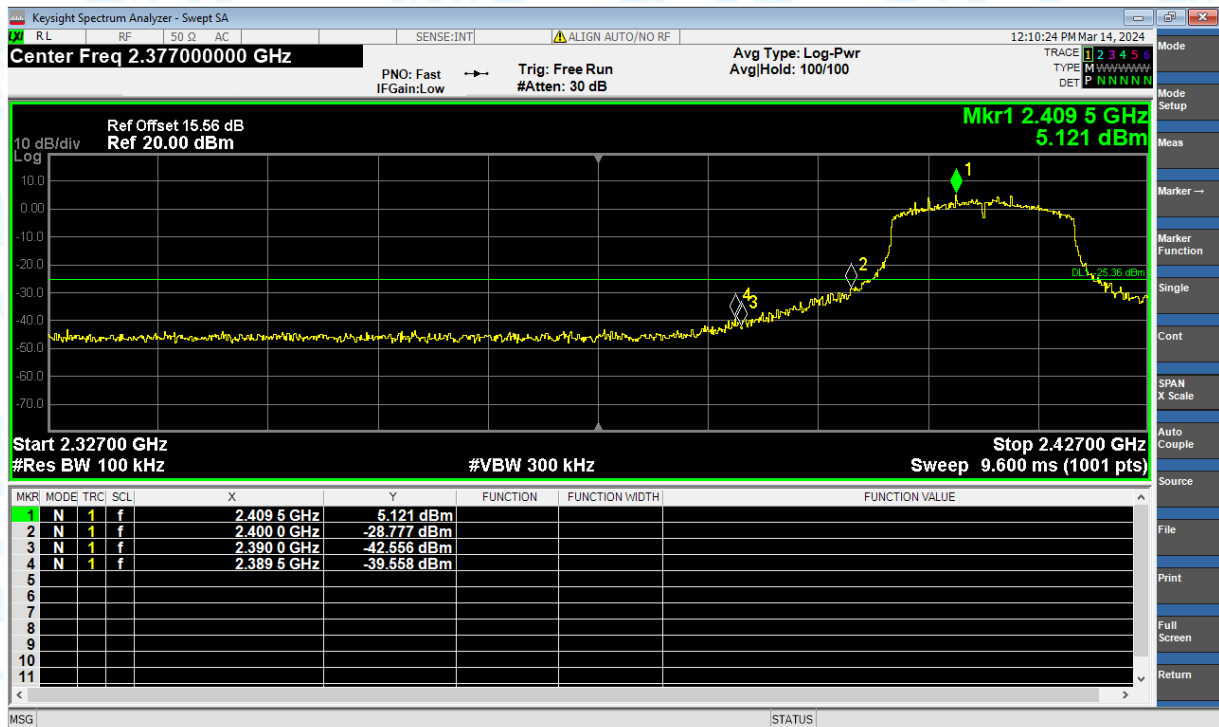
Band Edge NVNT b 2462MHz Ant1 Emission



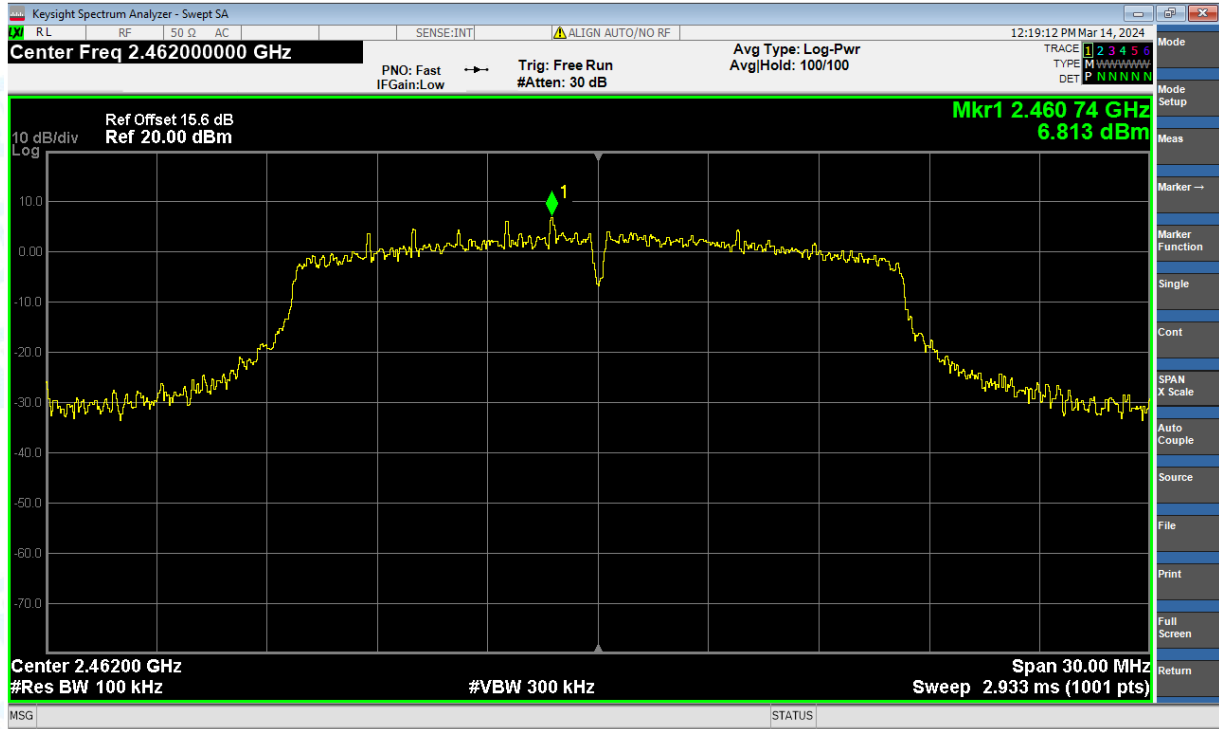
Band Edge NVNT g 2412MHz Ant1 Ref



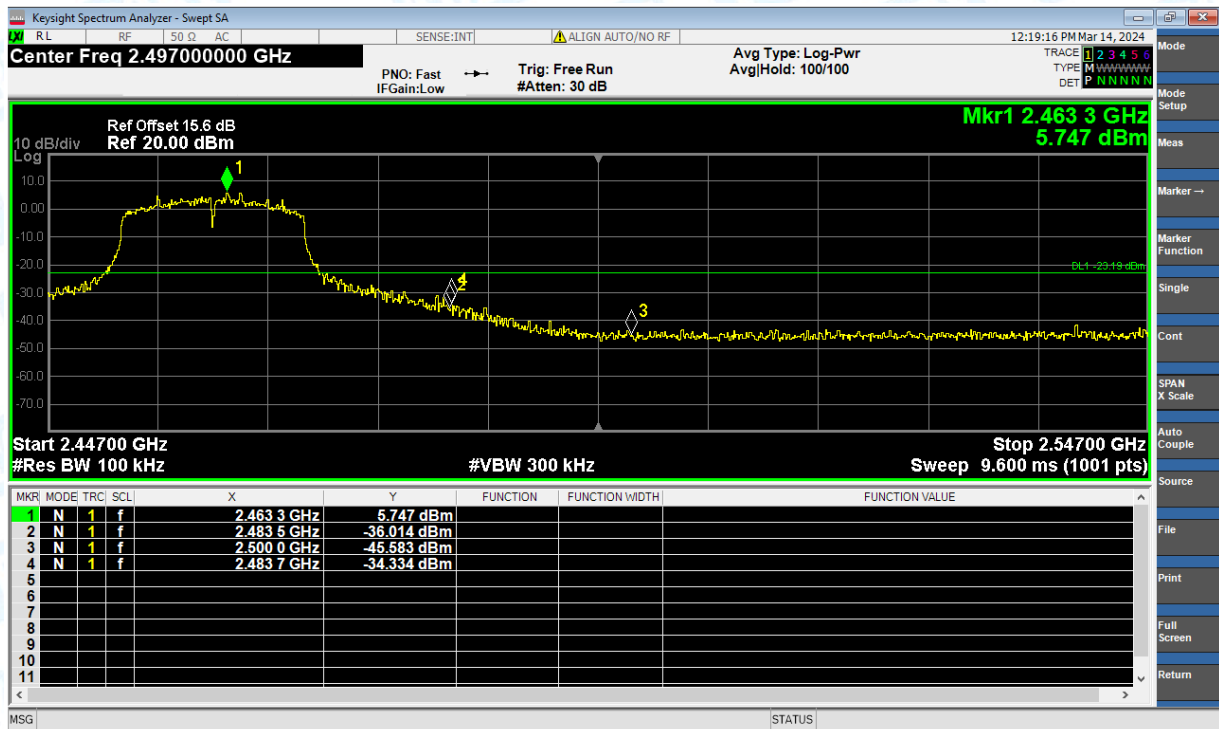
Band Edge NVNT g 2412MHz Ant1 Emission



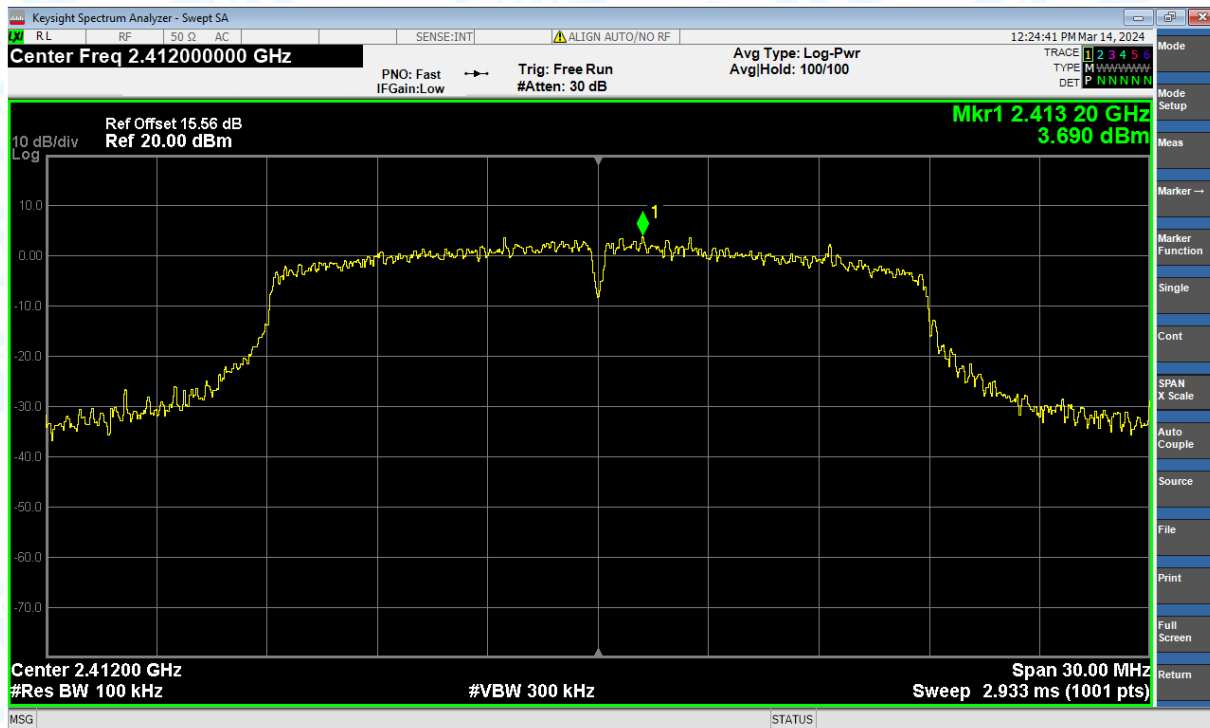
Band Edge NVNT g 2462MHz Ant1 Ref



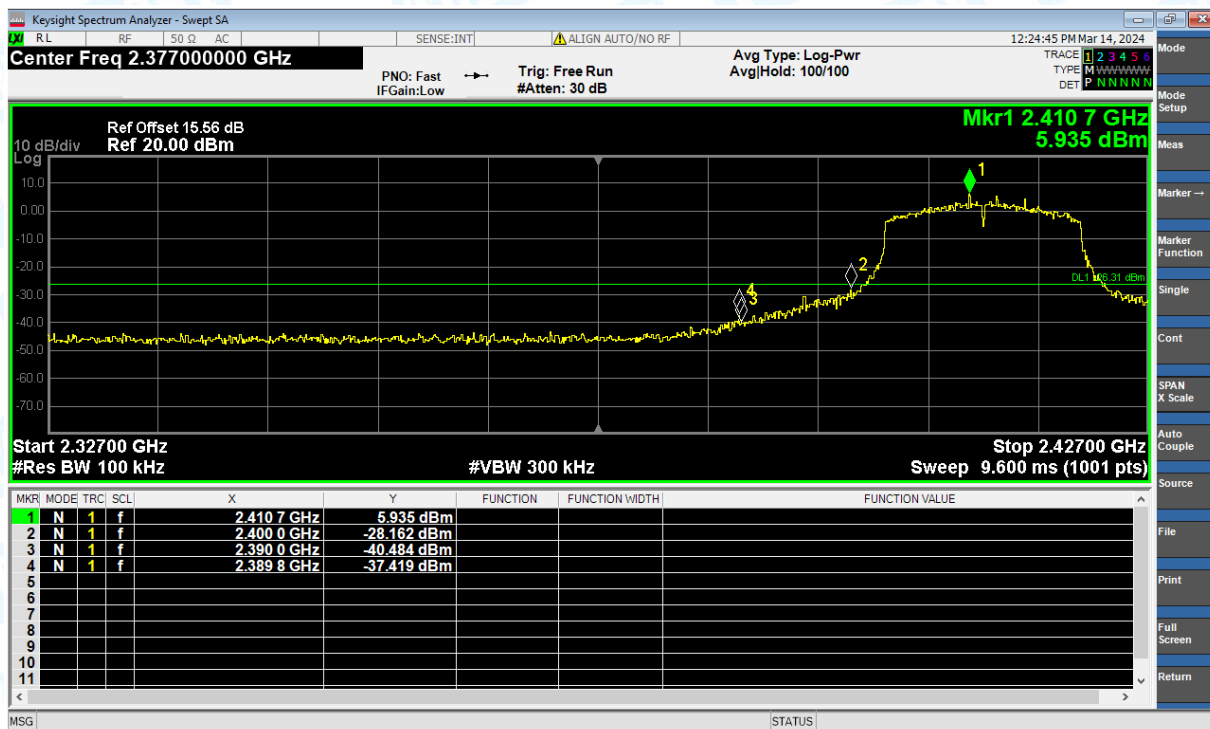
Band Edge NVNT g 2462MHz Ant1 Emission



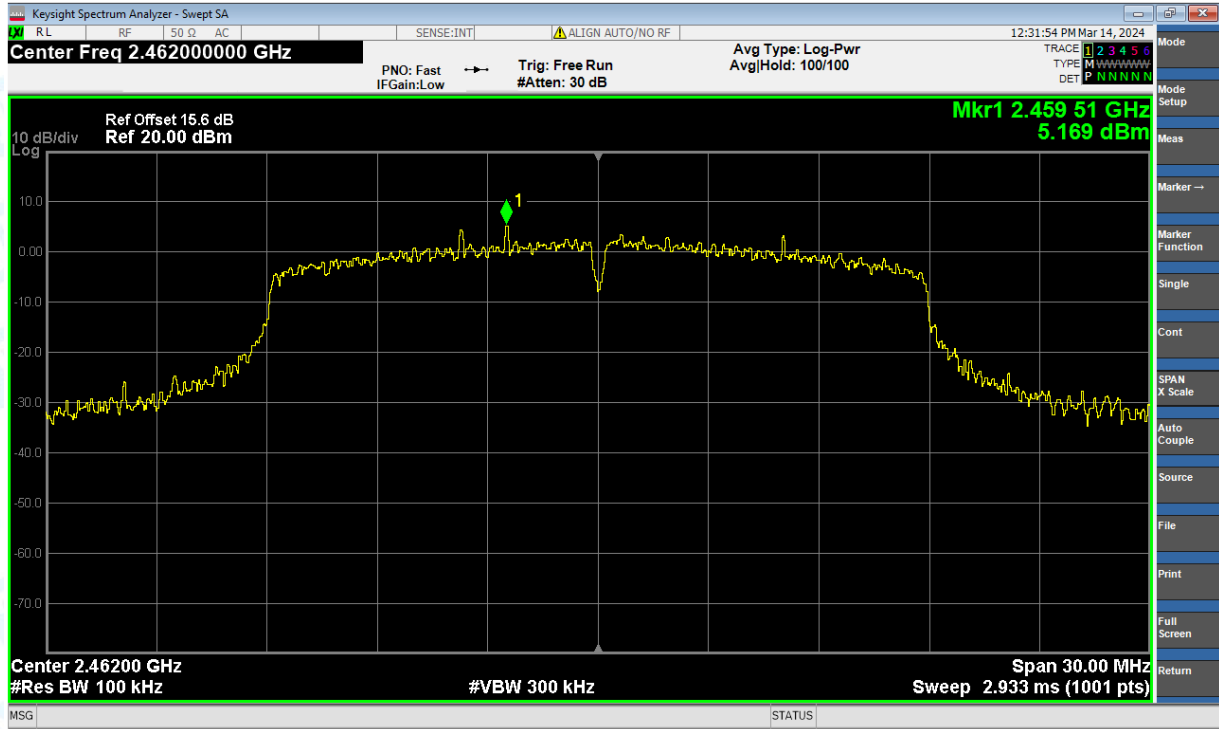
Band Edge NVNT n(HT20) 2412MHz Ant1 Ref



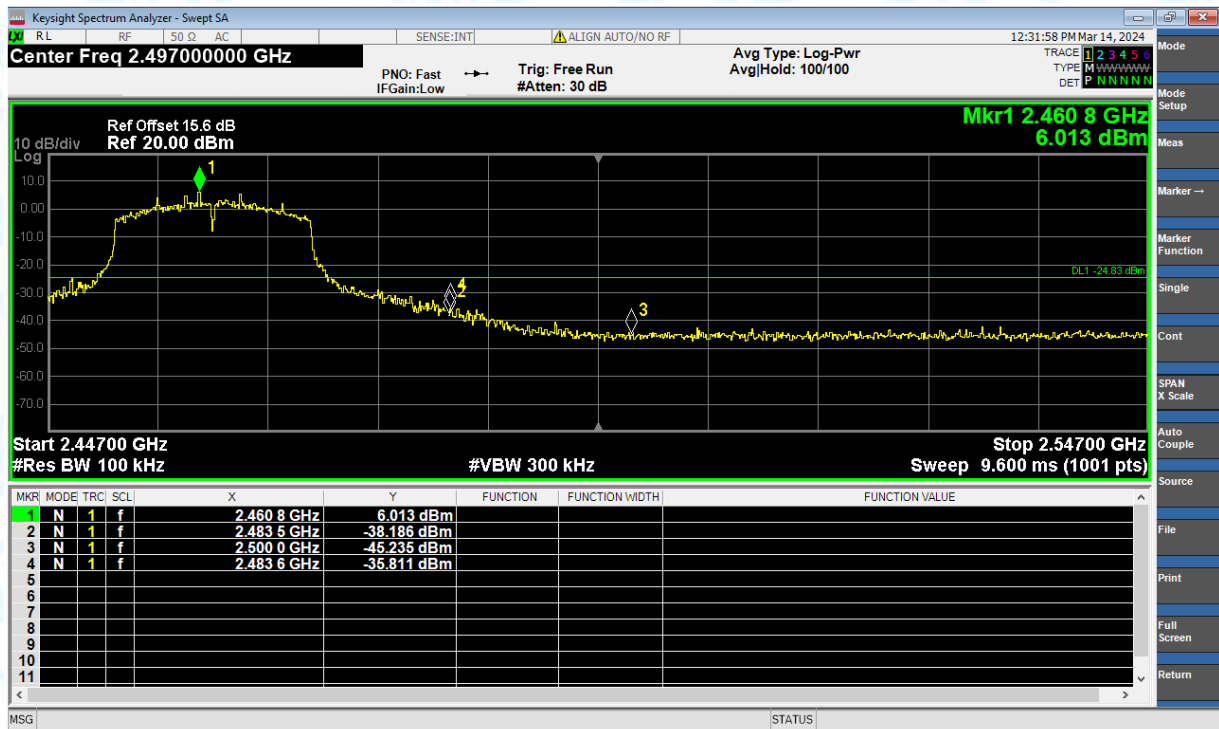
Band Edge NVNT n(HT20) 2412MHz Ant1 Emission



Band Edge NVNT n(HT20) 2462MHz Ant1 Ref



Band Edge NVNT n(HT20) 2462MHz Ant1 Emission

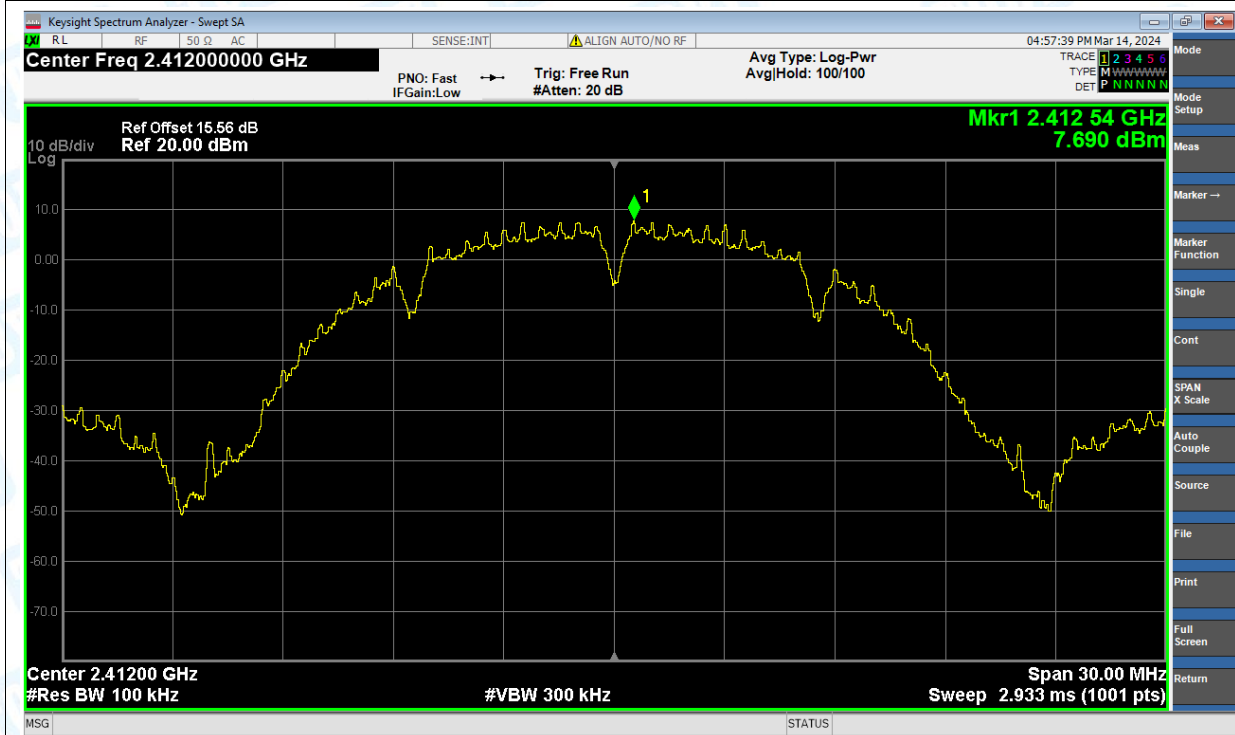


7. Conducted RF Spurious Emission

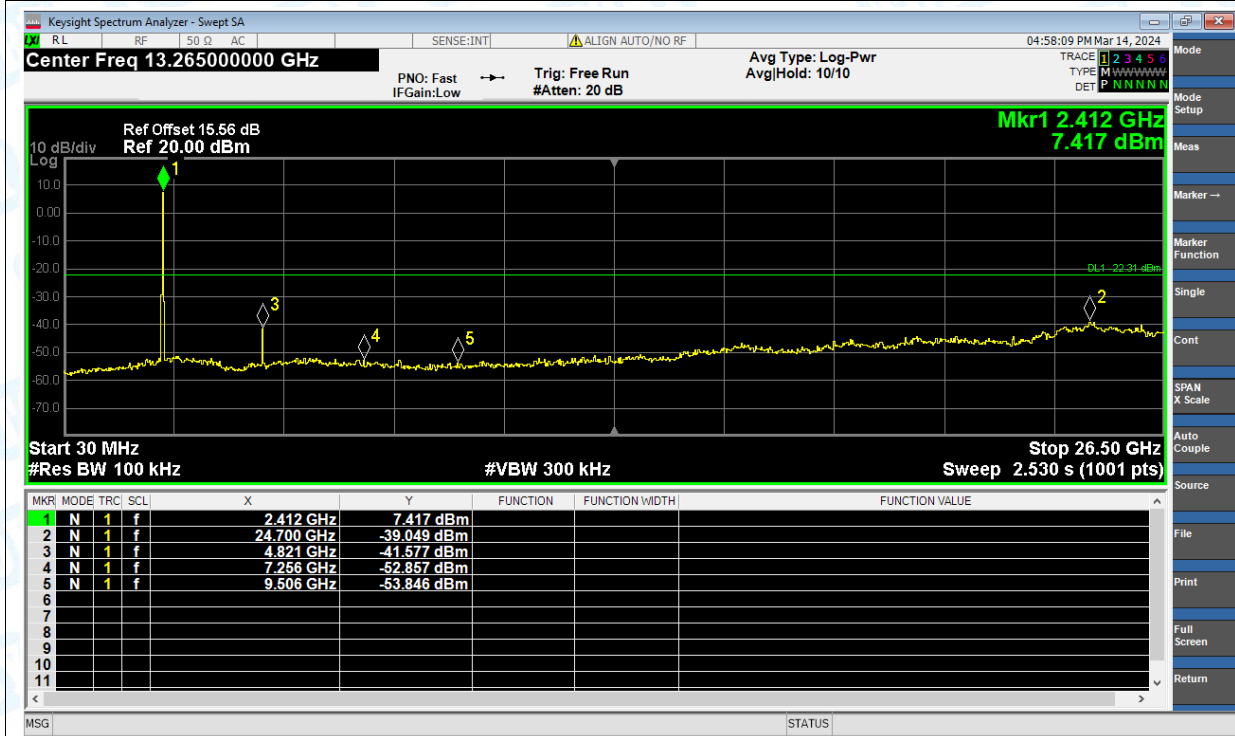
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-46.74	-30	Pass
NVNT	b	2437	Ant1	-46.94	-30	Pass
NVNT	b	2462	Ant1	-46.11	-30	Pass
NVNT	g	2412	Ant1	-43.46	-30	Pass
NVNT	g	2437	Ant1	-42.31	-30	Pass
NVNT	g	2462	Ant1	-40.03	-30	Pass
NVNT	n(HT20)	2412	Ant1	-43.72	-30	Pass
NVNT	n(HT20)	2437	Ant1	-43.08	-30	Pass
NVNT	n(HT20)	2462	Ant1	-45.74	-30	Pass

Test Graphs

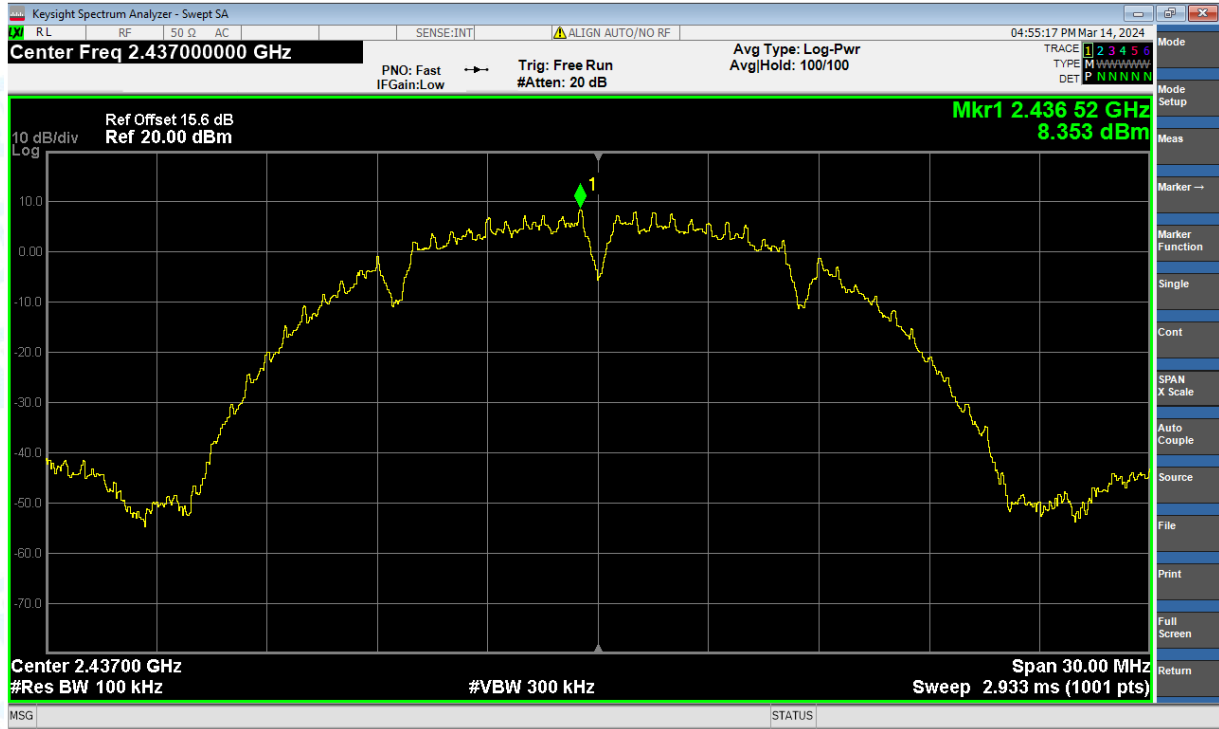
Tx. Spurious NVNT b 2412MHz Ant1 Ref



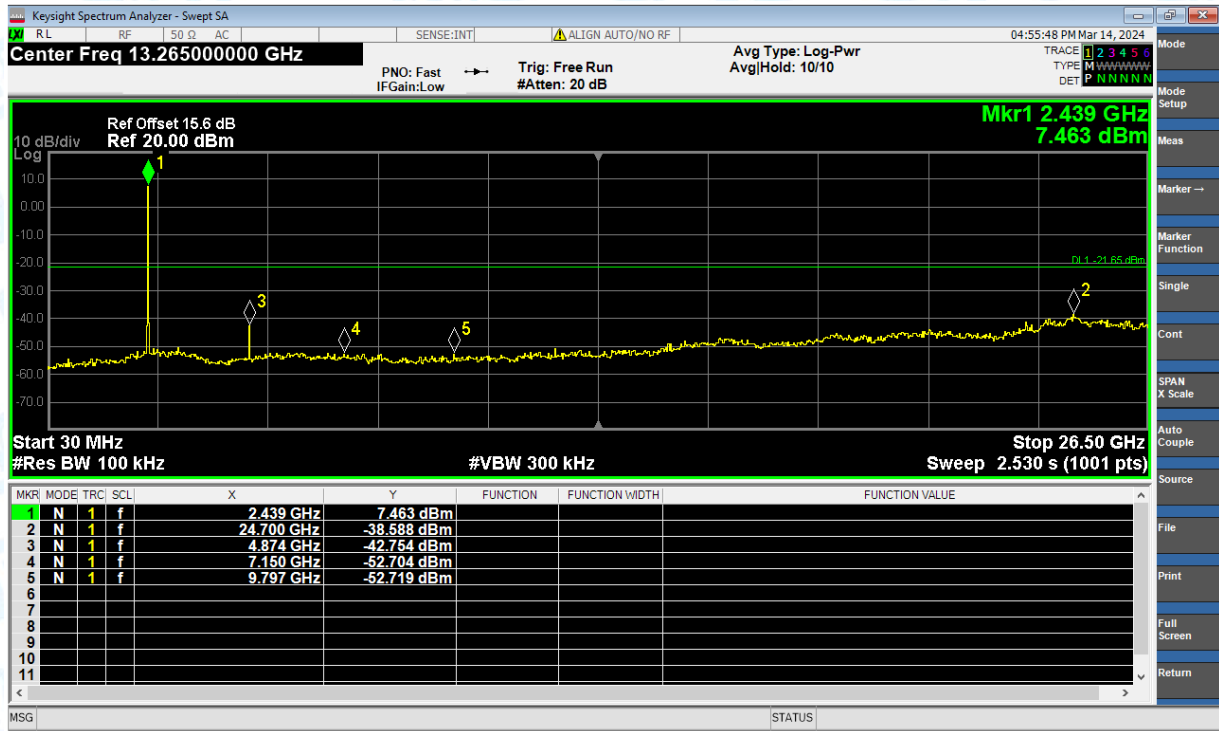
Tx. Spurious NVNT b 2412MHz Ant1 Emission



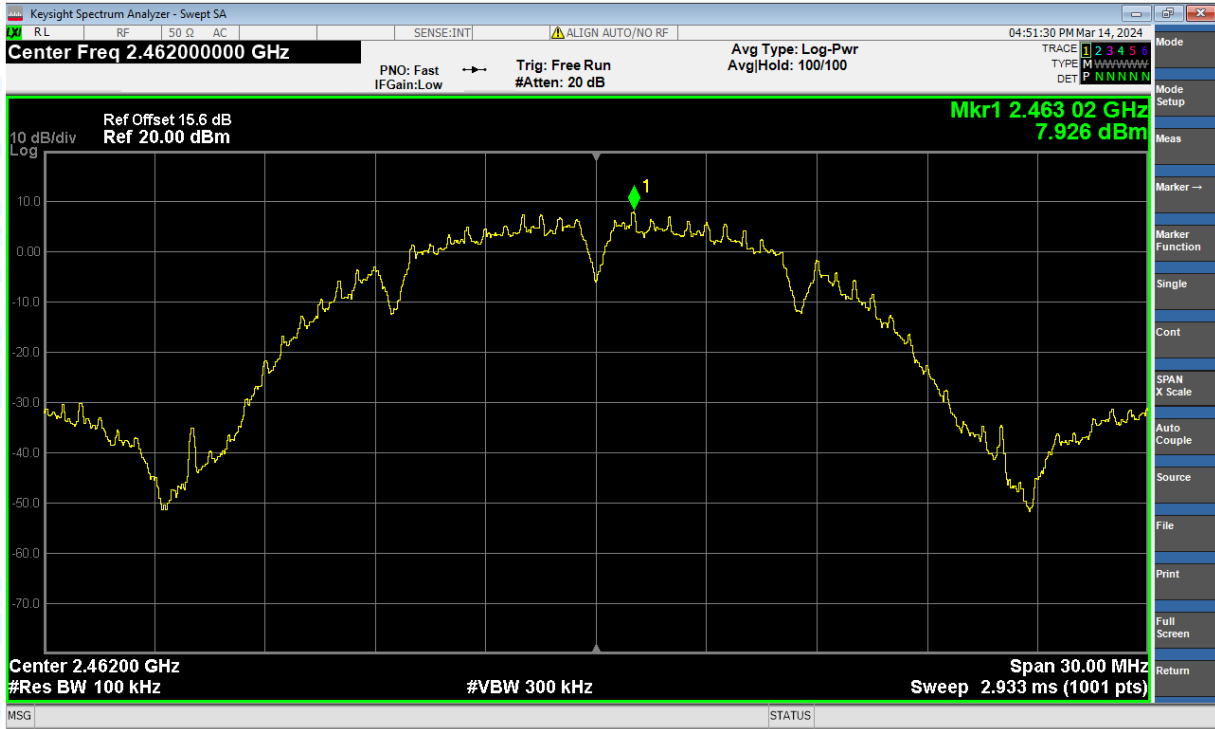
Tx. Spurious NVNT b 2437MHz Ant1 Ref



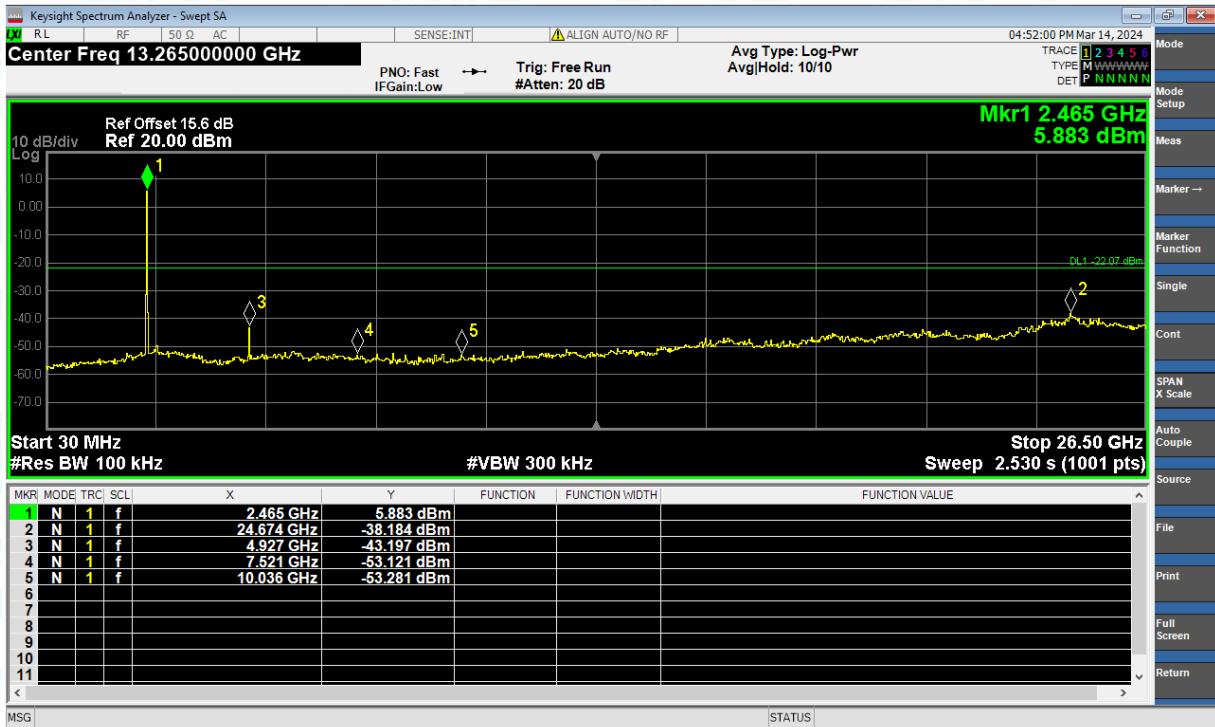
Tx. Spurious NVNT b 2437MHz Ant1 Emission

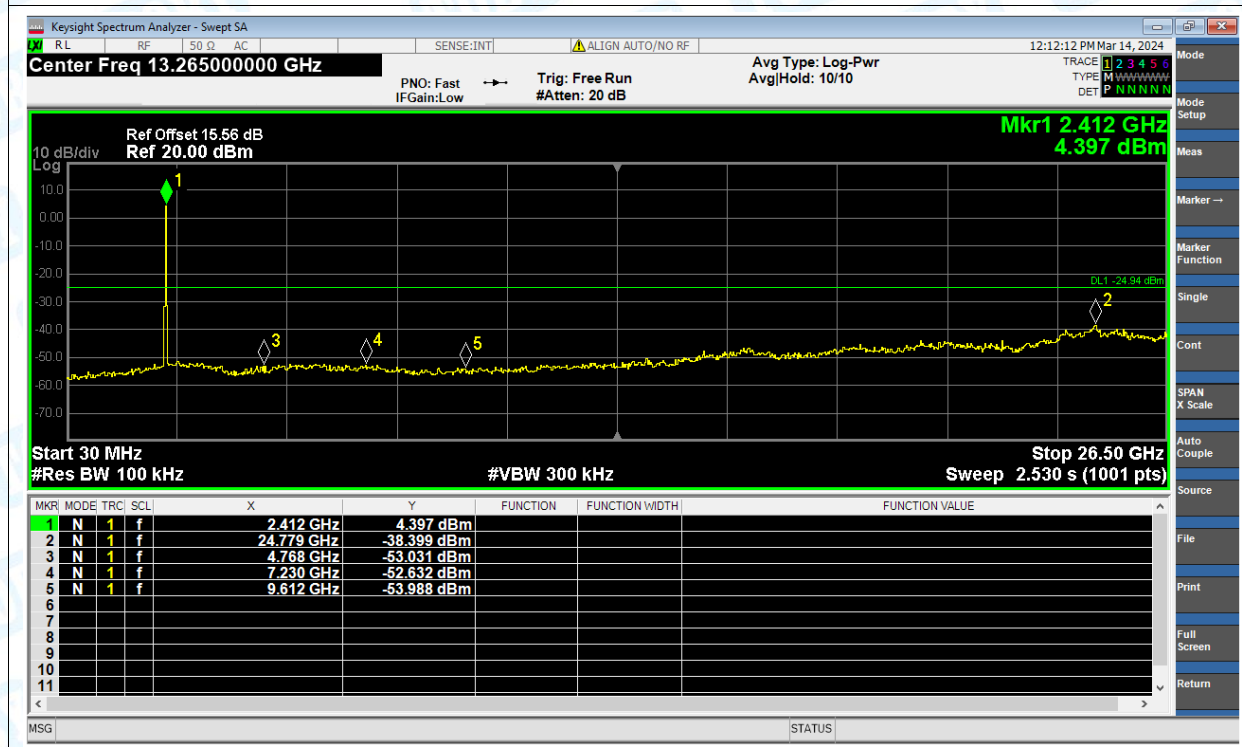
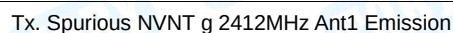


Tx. Spurious NVNT b 2462MHz Ant1 Ref

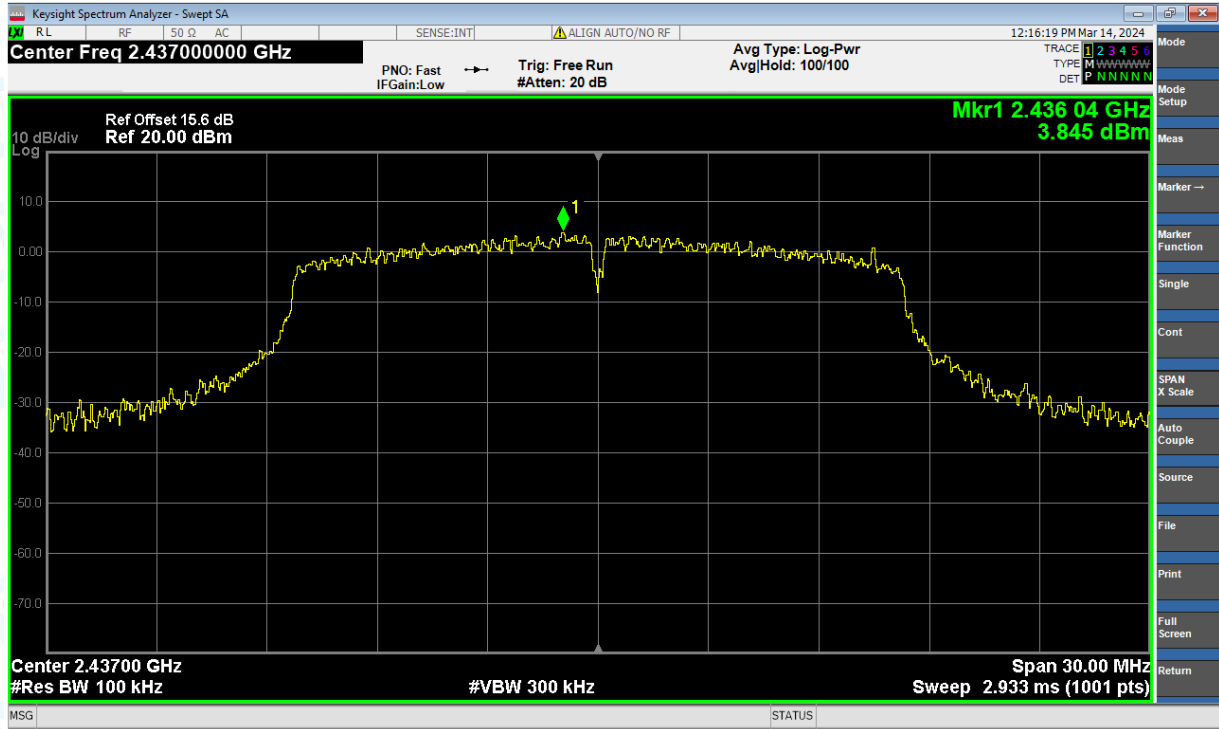


Tx. Spurious NVNT b 2462MHz Ant1 Emission

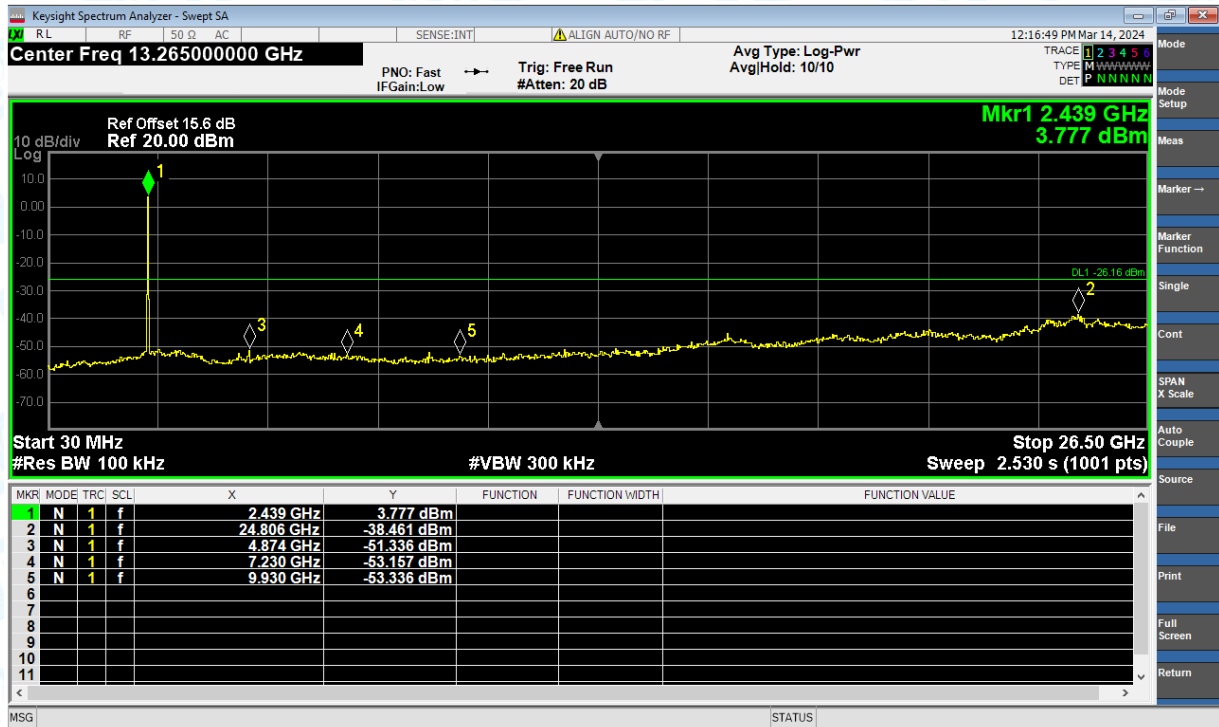




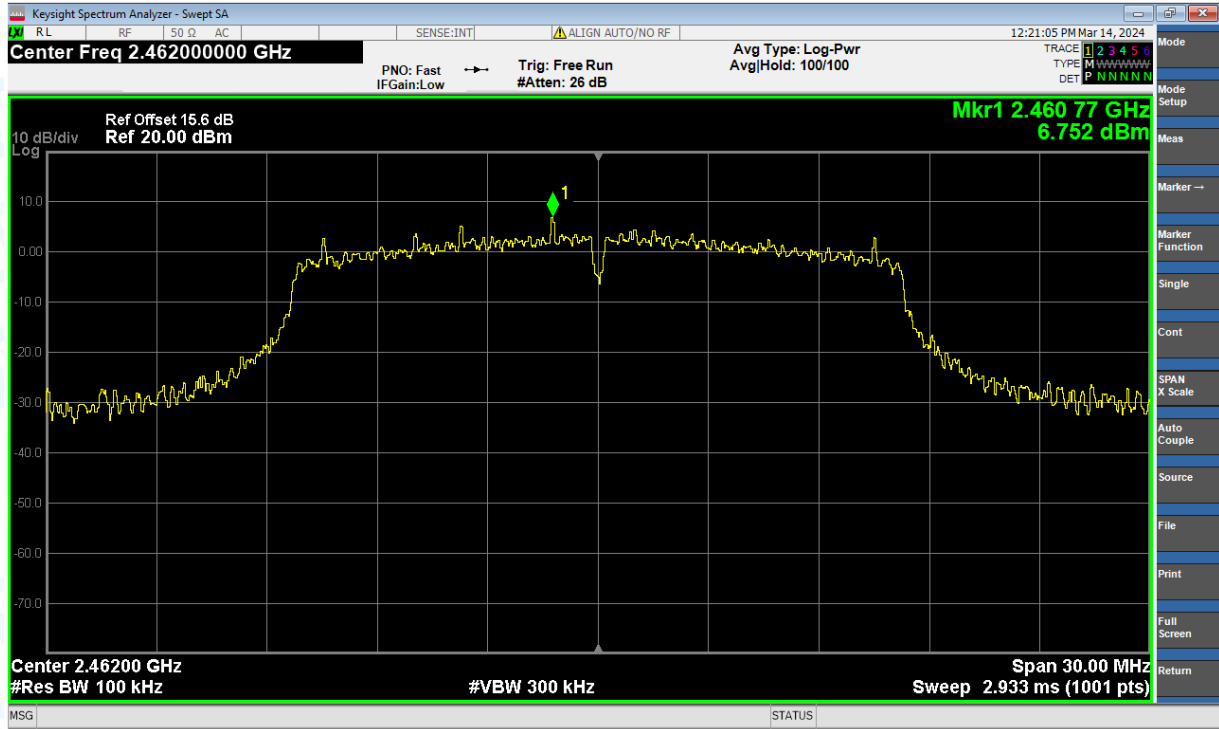
Tx. Spurious NVNT g 2437MHz Ant1 Ref



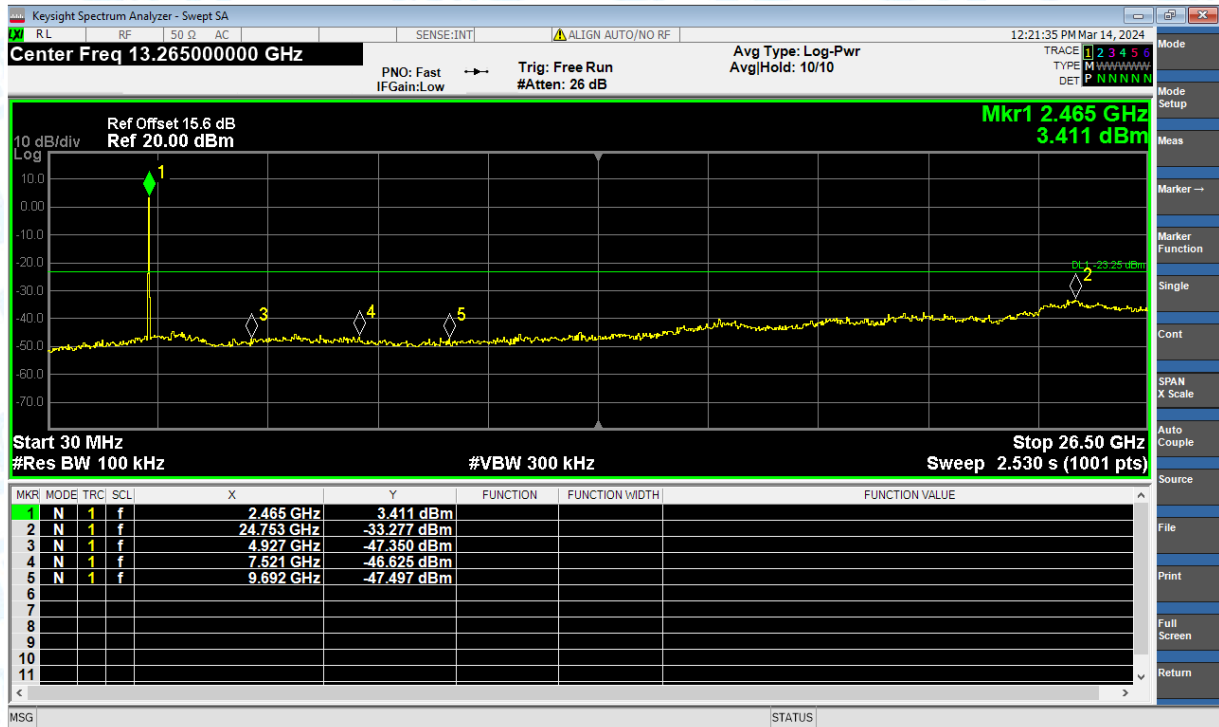
Tx. Spurious NVNT g 2437MHz Ant1 Emission

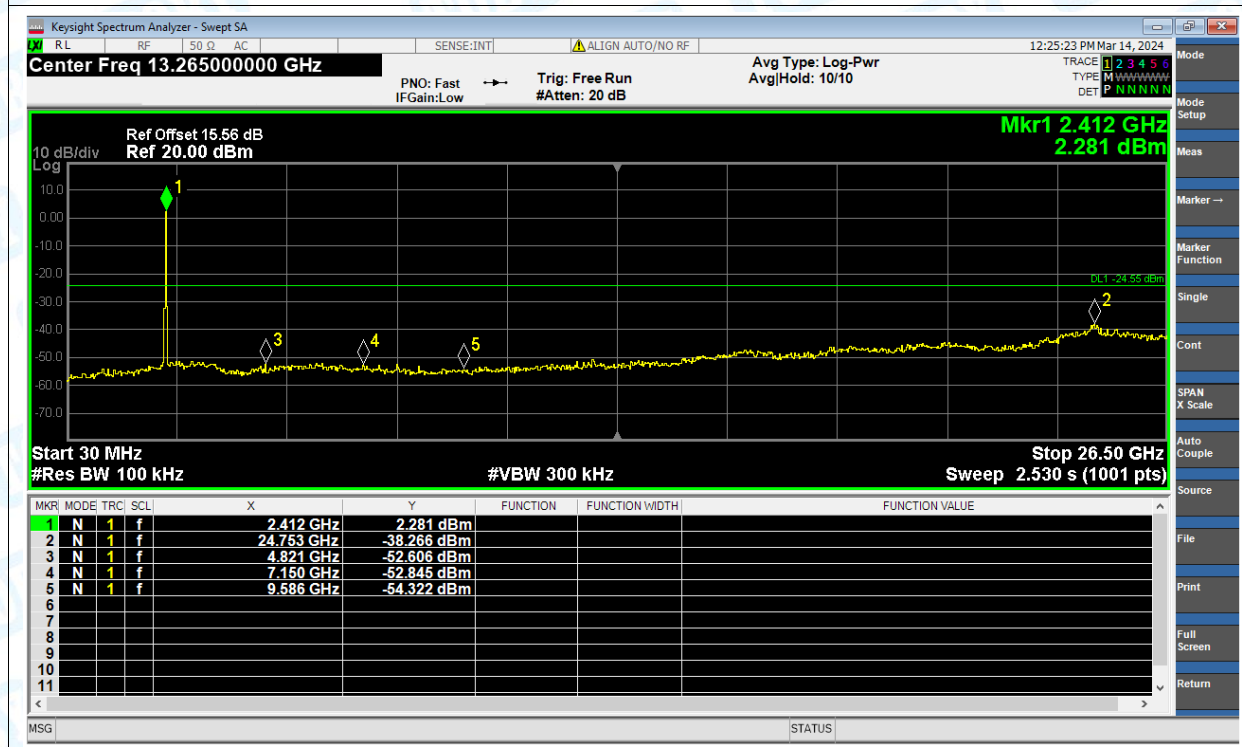
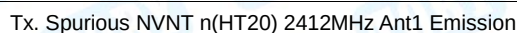


Tx. Spurious NVNT g 2462MHz Ant1 Ref

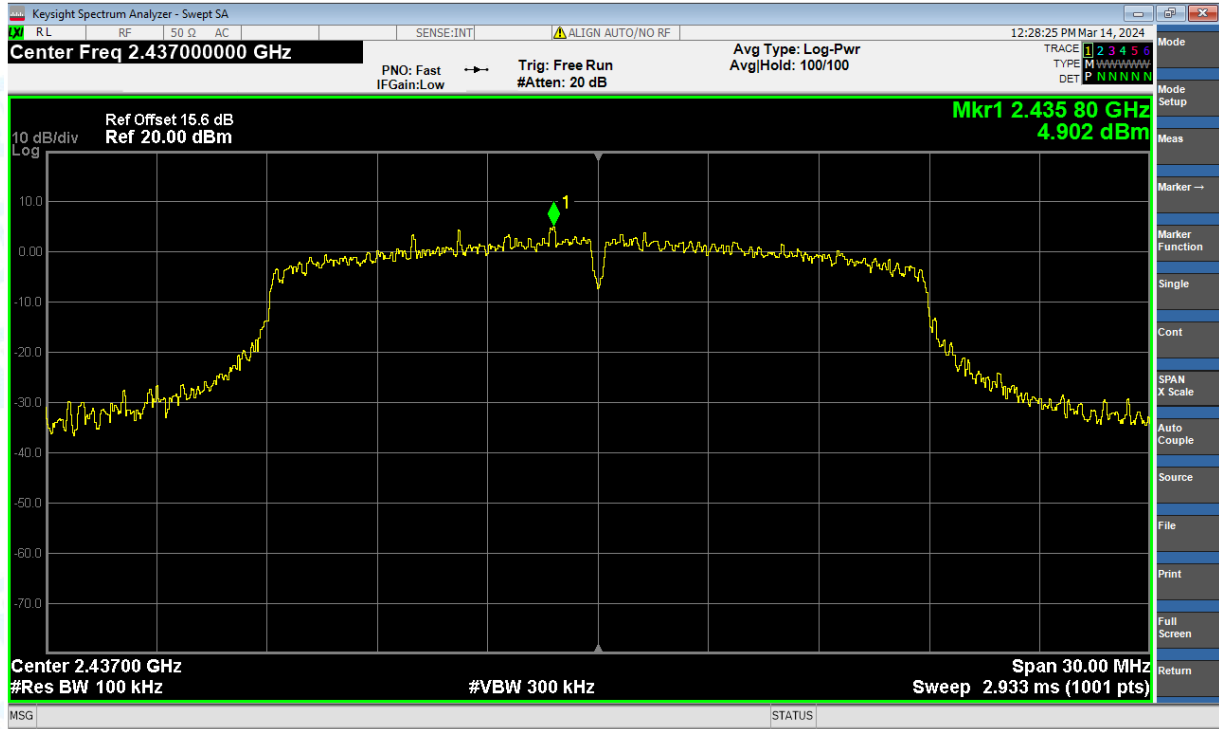


Tx. Spurious NVNT g 2462MHz Ant1 Emission

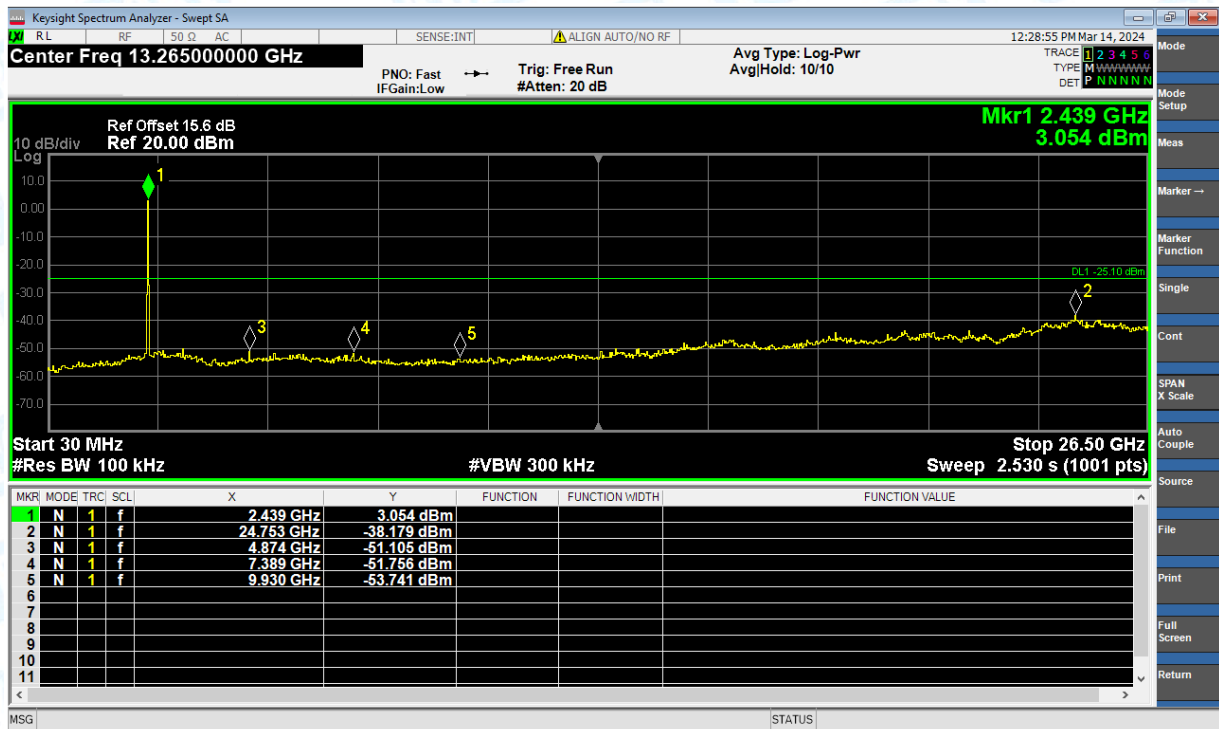




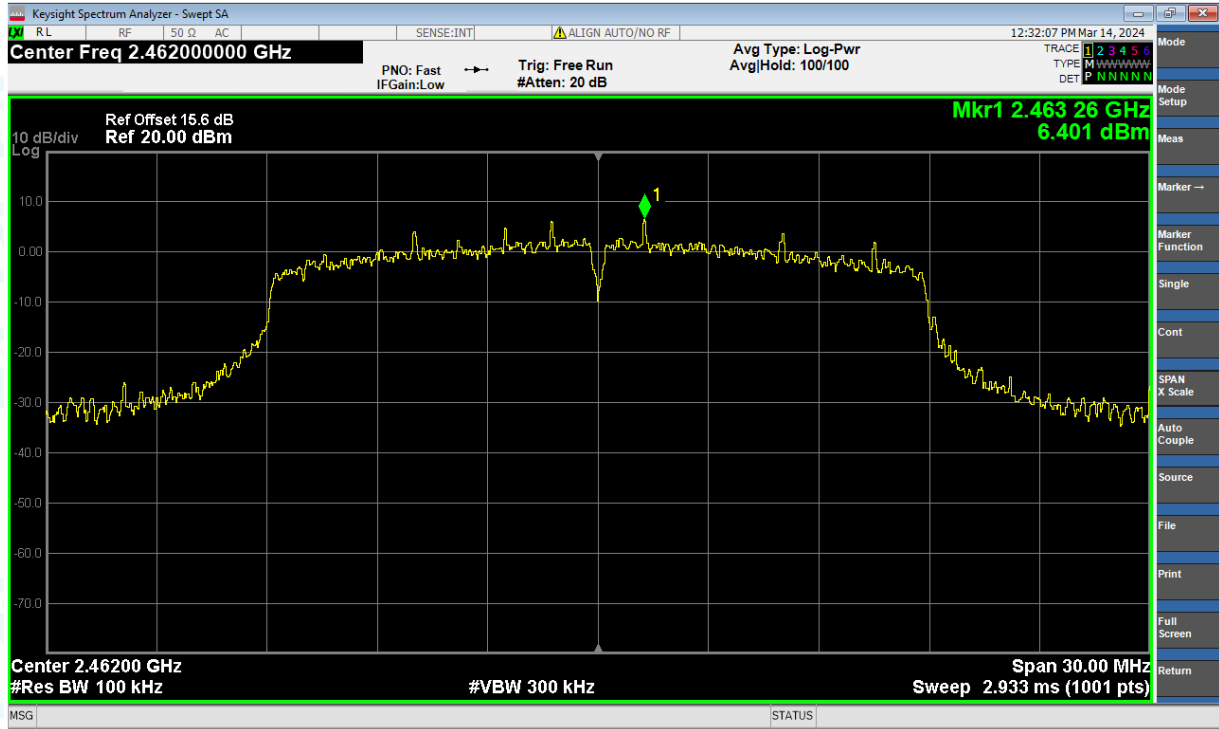
Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Ref



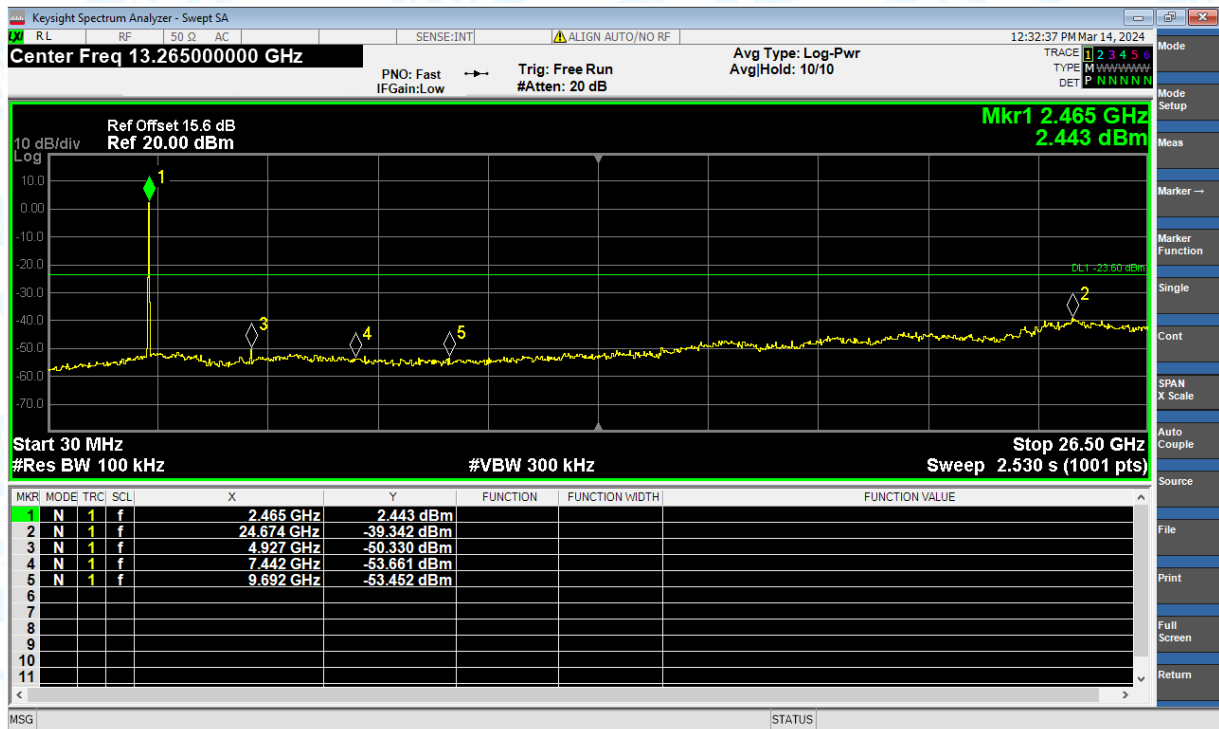
Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Emission



Tx. Spurious NVNT n(HT20) 2462MHz Ant1 Ref



Tx. Spurious NVNT n(HT20) 2462MHz Ant1 Emission



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