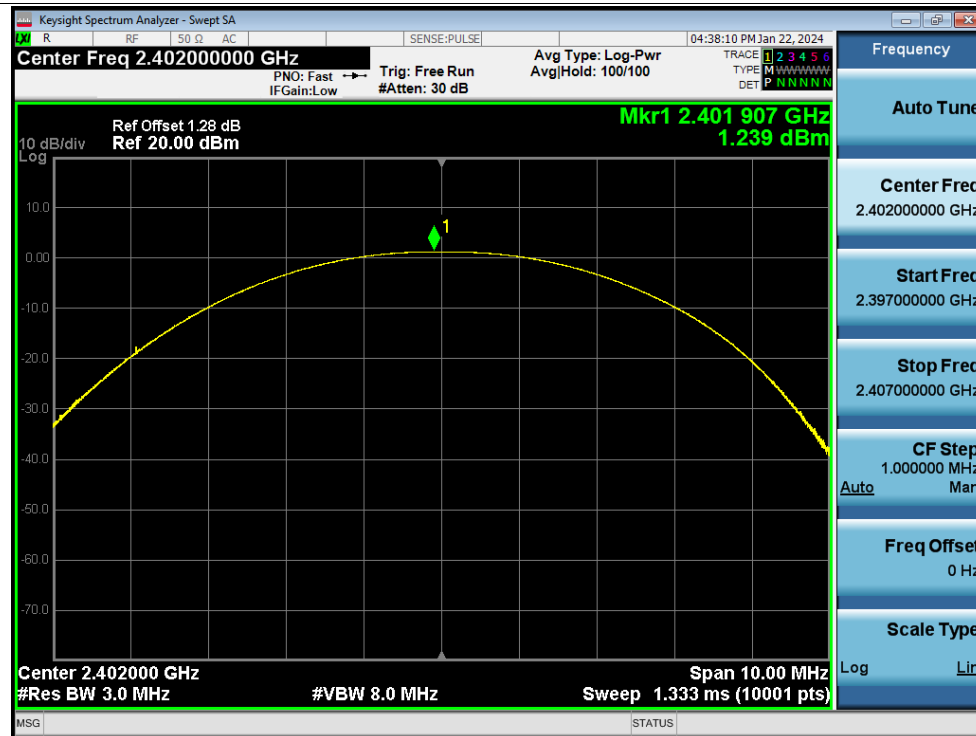


Maximum Conducted Output Power

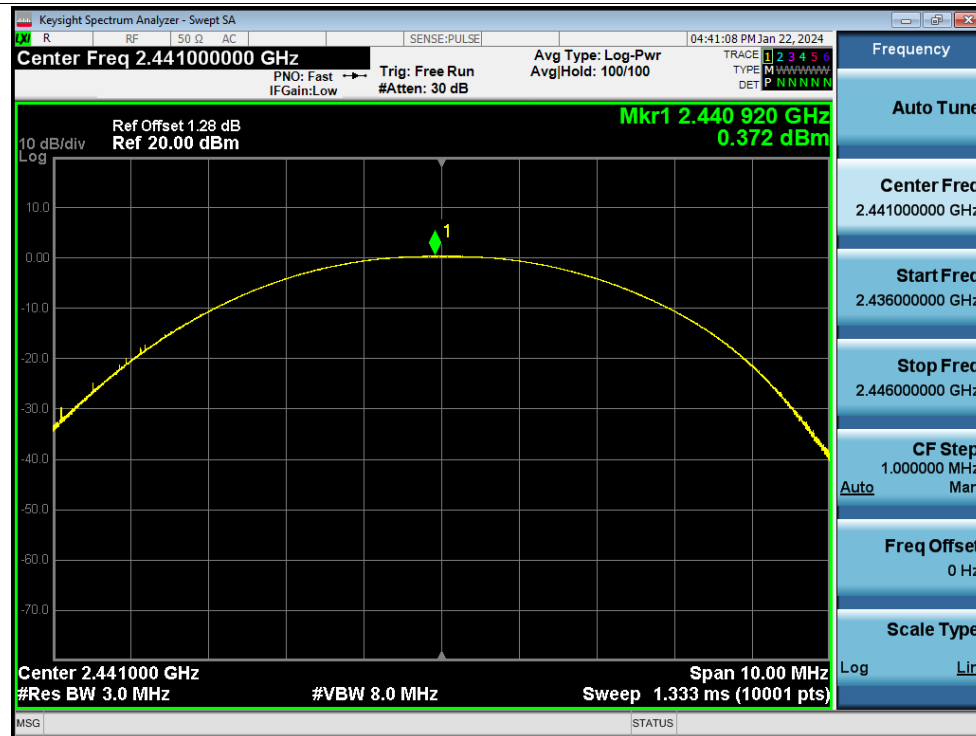
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	1.24	0	1.24	21	Pass
NVNT	1-DH5	2441	Ant1	0.37	0	0.37	21	Pass
NVNT	1-DH5	2480	Ant1	-0.56	0	-0.56	21	Pass
NVNT	2-DH5	2402	Ant1	3.49	0	3.49	21	Pass
NVNT	2-DH5	2441	Ant1	2.64	0	2.64	21	Pass
NVNT	2-DH5	2480	Ant1	1.73	0	1.73	21	Pass
NVNT	3-DH5	2402	Ant1	4.12	0	4.12	21	Pass
NVNT	3-DH5	2441	Ant1	3.2	0	3.2	21	Pass
NVNT	3-DH5	2480	Ant1	2.38	0	2.38	21	Pass

Test Graphs

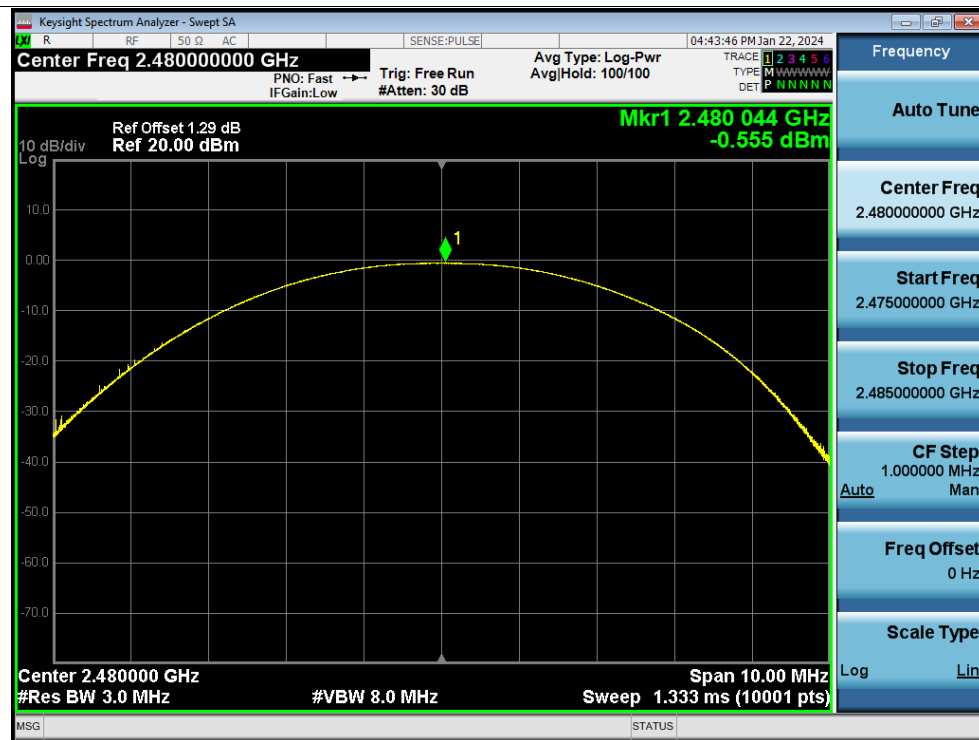
Power NVNT 1-DH5 2402MHz Ant1



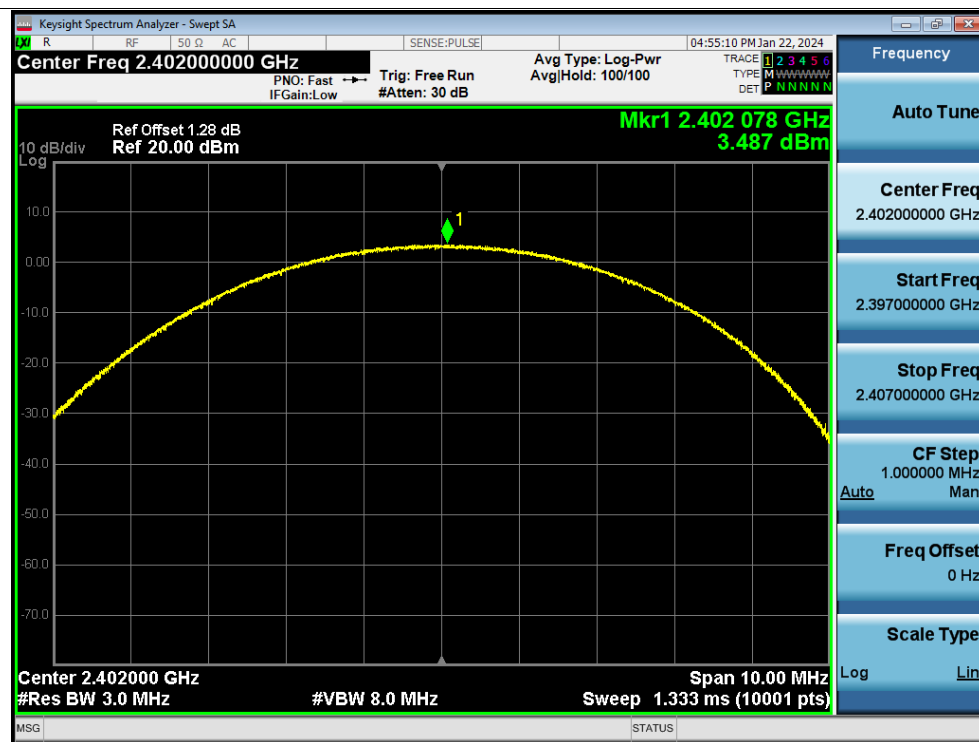
Power NVNT 1-DH5 2441MHz Ant1



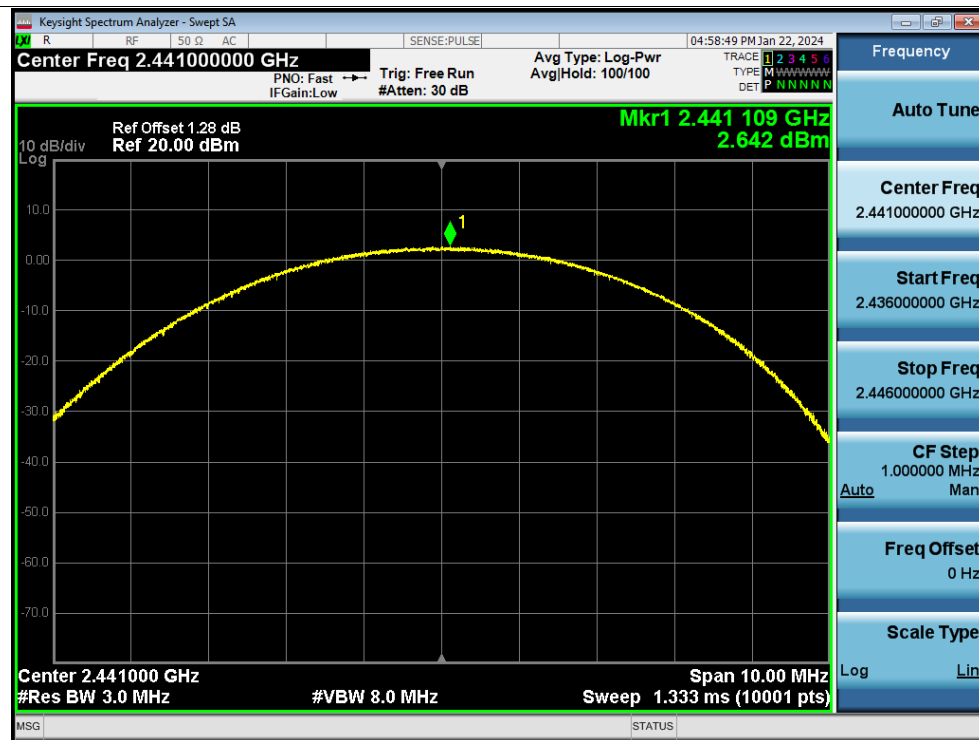
Power NVNT 1-DH5 2480MHz Ant1



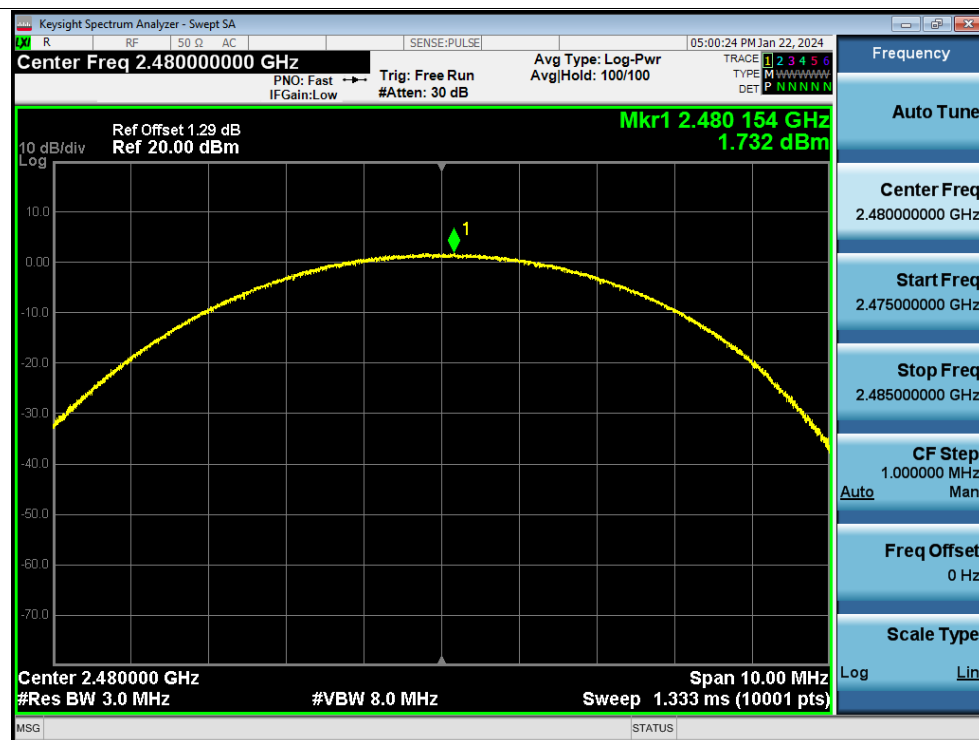
Power NVNT 2-DH5 2402MHz Ant1



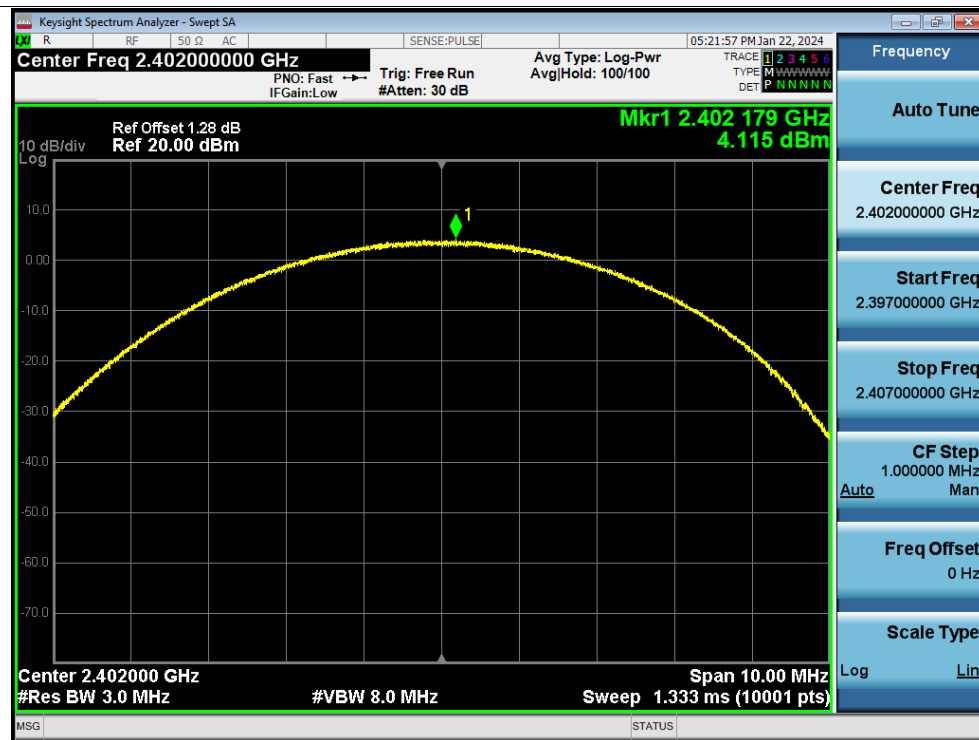
Power NVNT 2-DH5 2441MHz Ant1



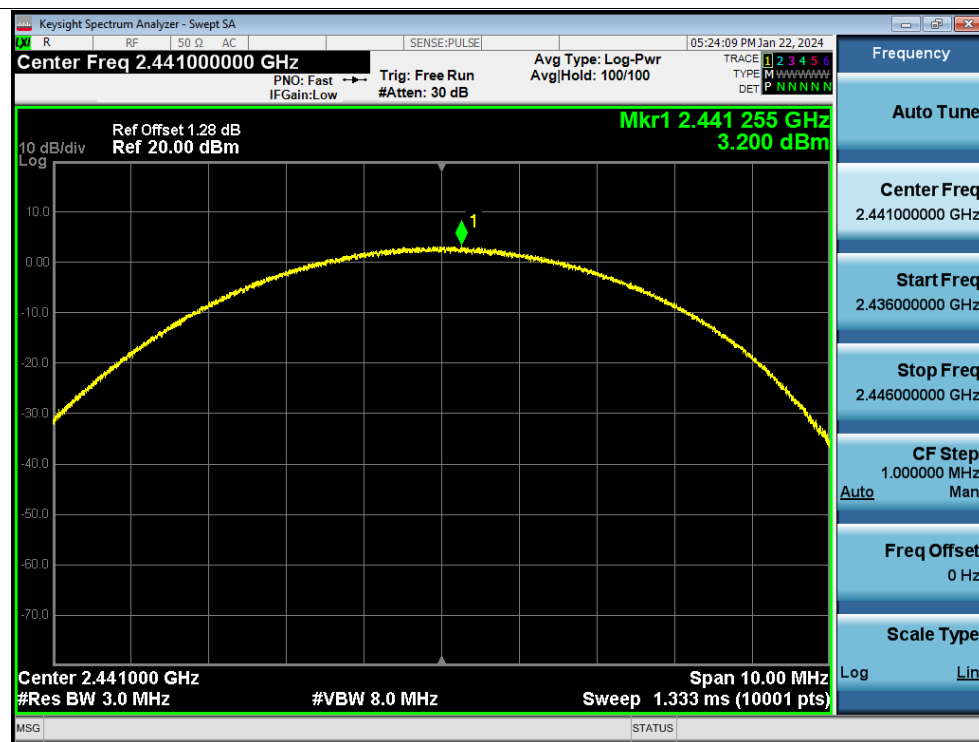
Power NVNT 2-DH5 2480MHz Ant1

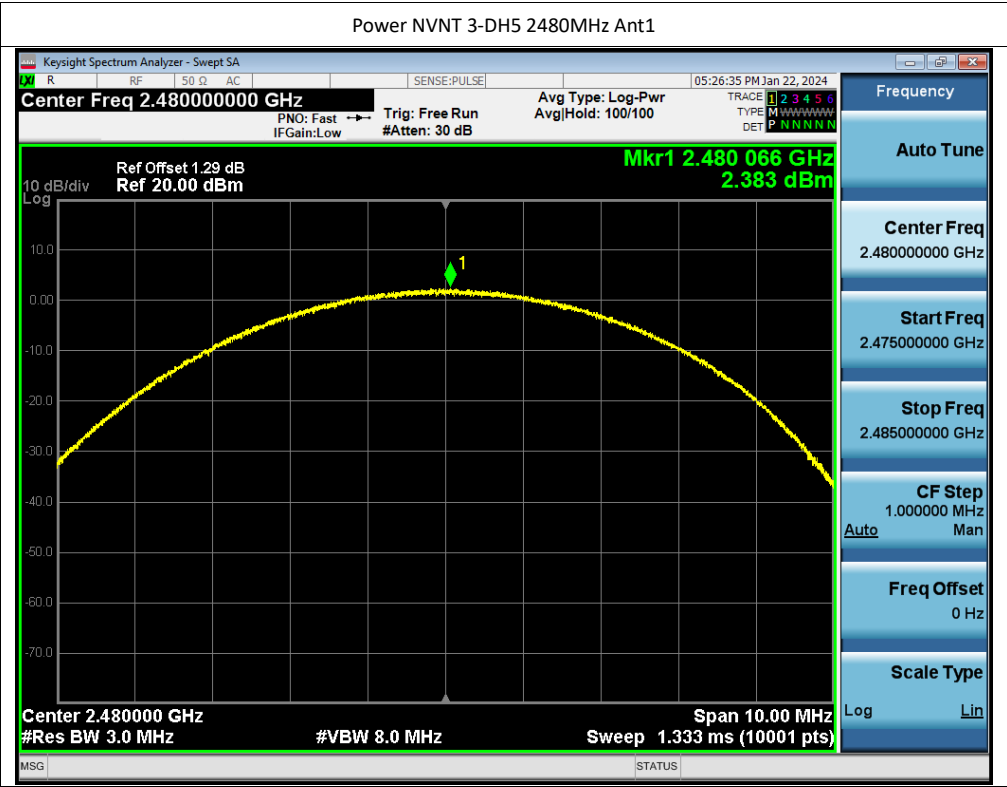


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.94	N/A	N/A
NVNT	1-DH5	2441	Ant1	0.95	N/A	N/A
NVNT	1-DH5	2480	Ant1	0.93	N/A	N/A
NVNT	2-DH5	2402	Ant1	1.31	N/A	N/A
NVNT	2-DH5	2441	Ant1	1.32	N/A	N/A
NVNT	2-DH5	2480	Ant1	1.28	N/A	N/A
NVNT	3-DH5	2402	Ant1	1.29	N/A	N/A
NVNT	3-DH5	2441	Ant1	1.3	N/A	N/A
NVNT	3-DH5	2480	Ant1	1.3	N/A	N/A

Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



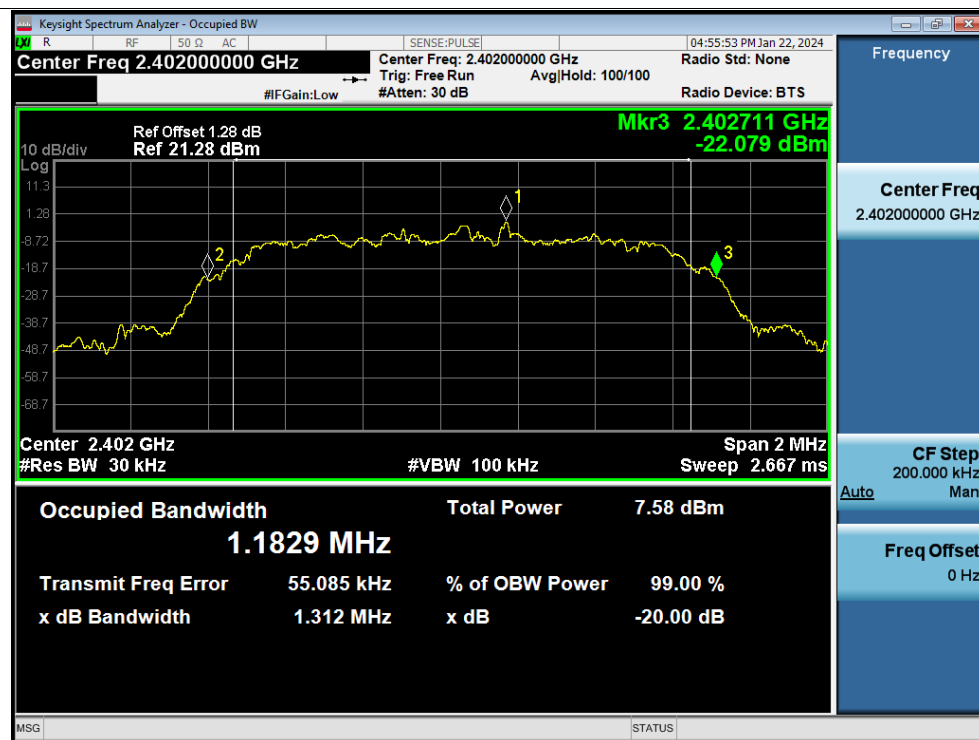
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



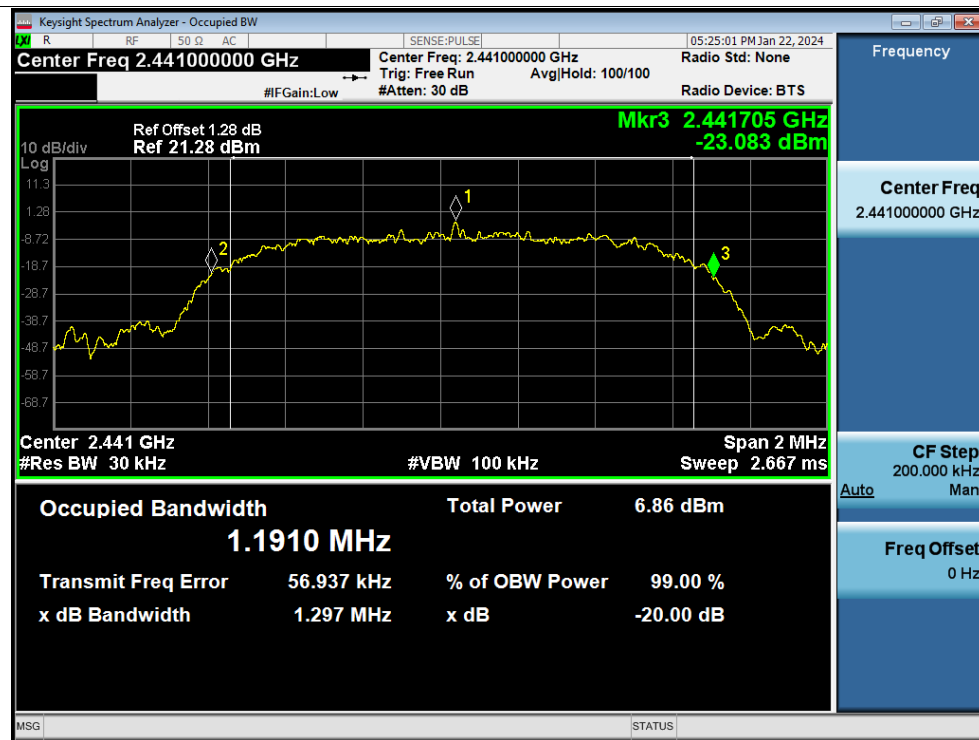
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



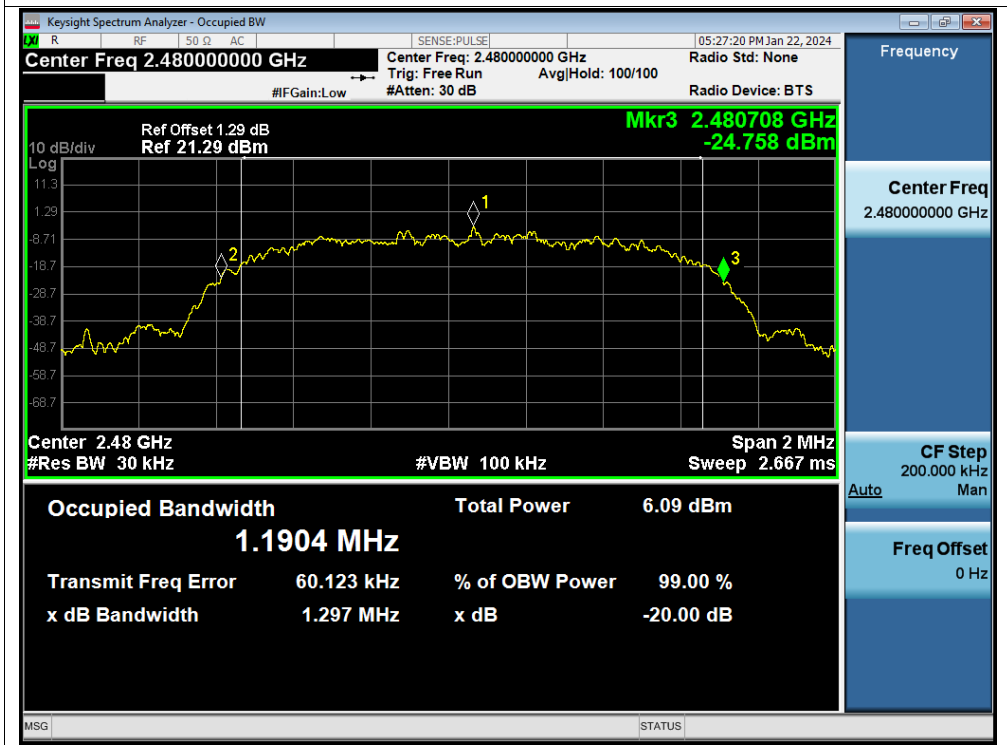
-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1



Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.845
NVNT	1-DH5	2441	Ant1	0.838
NVNT	1-DH5	2480	Ant1	0.842
NVNT	2-DH5	2402	Ant1	1.176
NVNT	2-DH5	2441	Ant1	1.182
NVNT	2-DH5	2480	Ant1	1.19
NVNT	3-DH5	2402	Ant1	1.196
NVNT	3-DH5	2441	Ant1	1.186
NVNT	3-DH5	2480	Ant1	1.18

Test Graphs

OBW NVNT 1-DH5 2402MHz Ant1



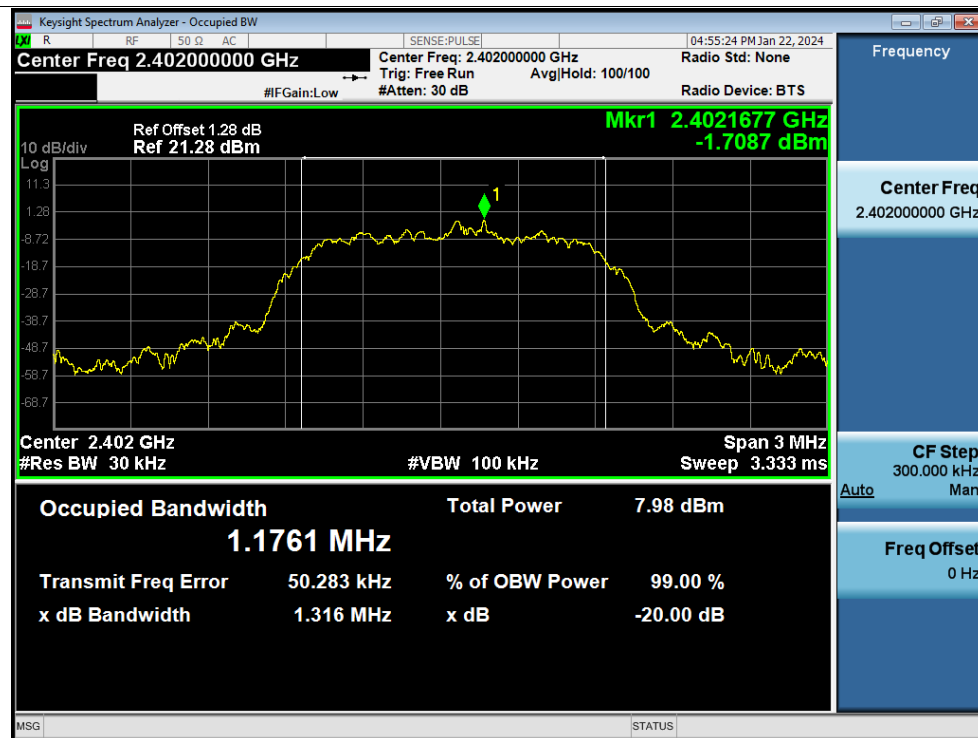
OBW NVNT 1-DH5 2441MHz Ant1



OBW NVNT 1-DH5 2480MHz Ant1



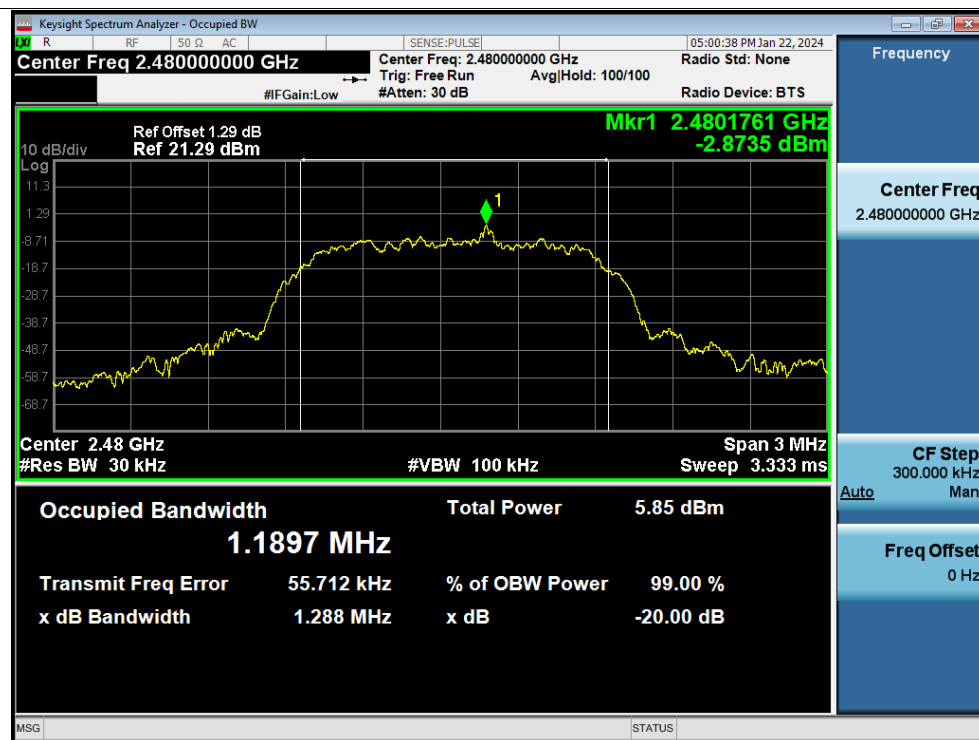
OBW NVNT 2-DH5 2402MHz Ant1



OBW NVNT 2-DH5 2441MHz Ant1



OBW NVNT 2-DH5 2480MHz Ant1



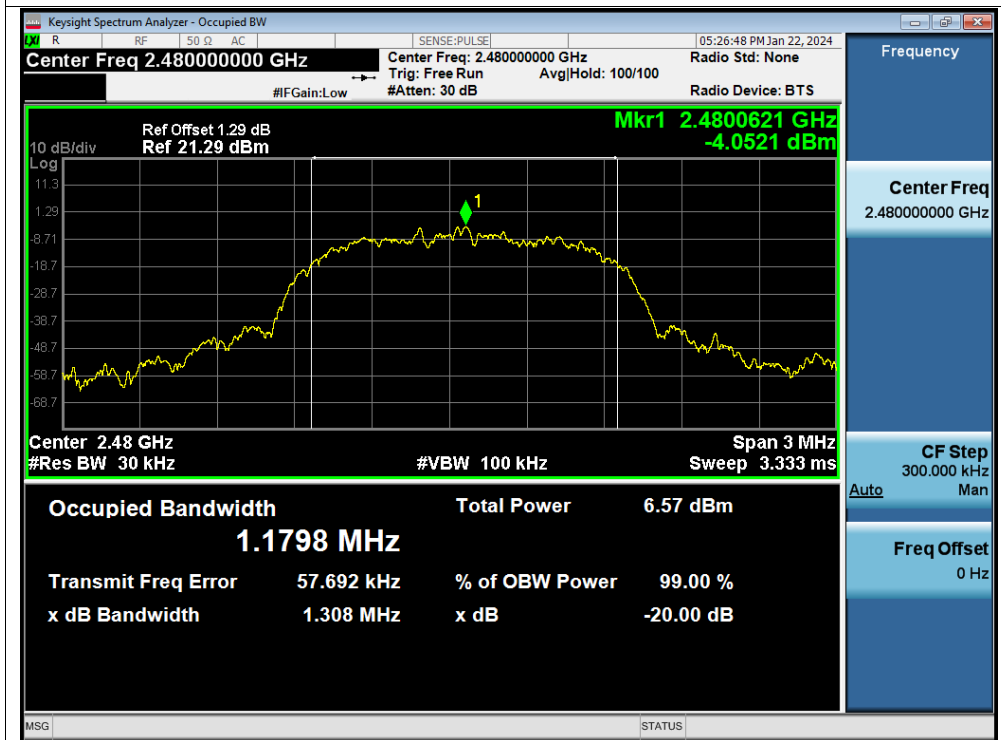
OBW NVNT 3-DH5 2402MHz Ant1



OBW NVNT 3-DH5 2441MHz Ant1



OBW NVNT 3-DH5 2480MHz Ant1

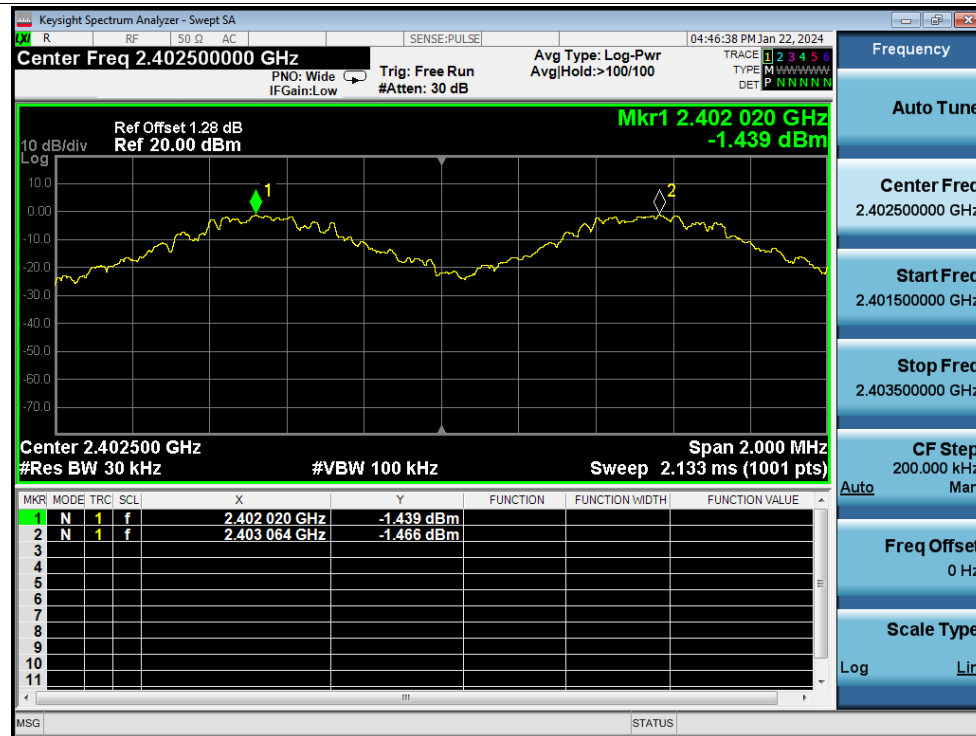


Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.02	2403.064	1.044	0.627	Pass
NVNT	1-DH5	Ant1	2441.068	2442.038	0.97	0.633	Pass
NVNT	1-DH5	Ant1	2479.062	2480.024	0.962	0.62	Pass
NVNT	2-DH5	Ant1	2402.074	2403.17	1.096	0.873	Pass
NVNT	2-DH5	Ant1	2440.894	2441.882	0.988	0.88	Pass
NVNT	2-DH5	Ant1	2479.162	2480.184	1.022	0.853	Pass
NVNT	3-DH5	Ant1	2402.062	2403.046	0.984	0.86	Pass
NVNT	3-DH5	Ant1	2441.05	2442.052	1.002	0.867	Pass
NVNT	3-DH5	Ant1	2479.05	2480.04	0.99	0.867	Pass

Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



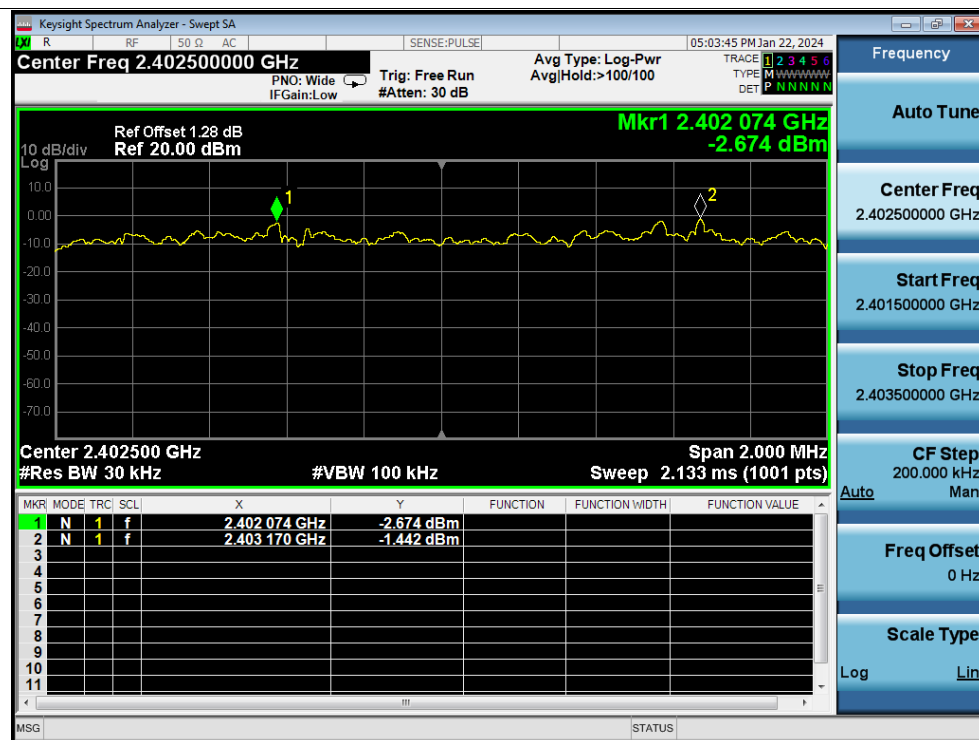
CFS NVNT 1-DH5 2441MHz Ant1



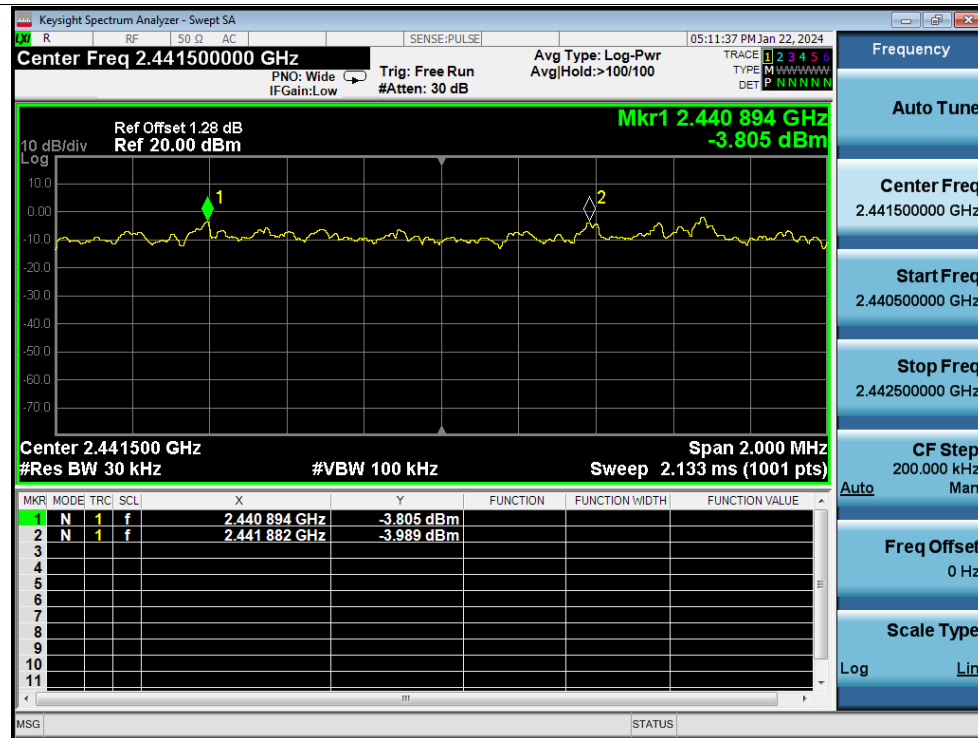
CFS NVNT 1-DH5 2480MHz Ant1



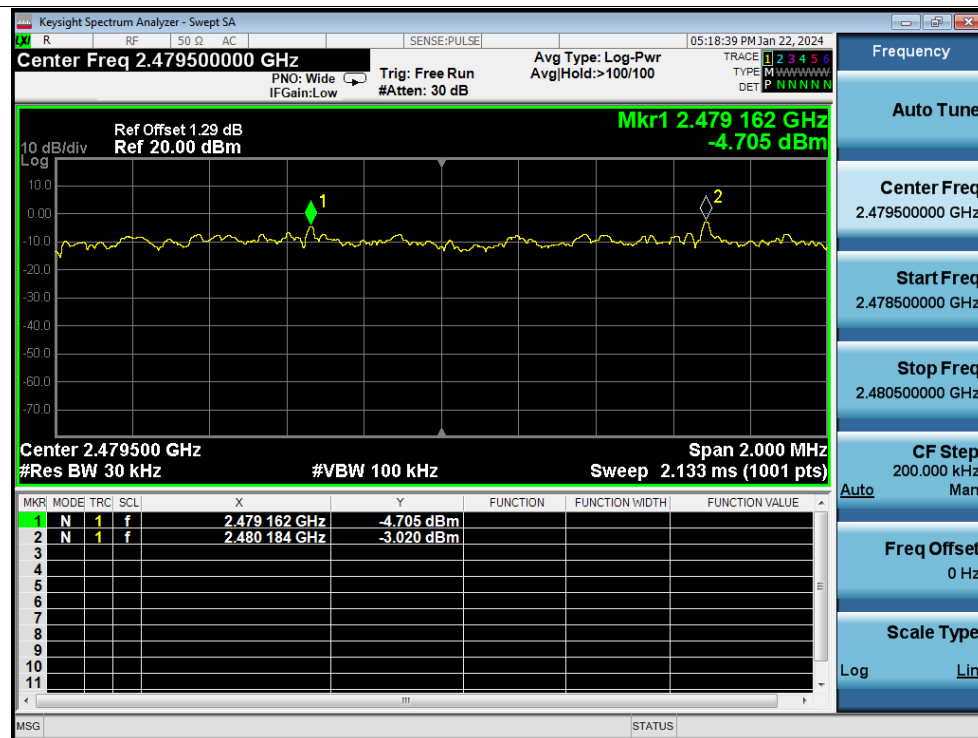
CFS NVNT 2-DH5 2402MHz Ant1



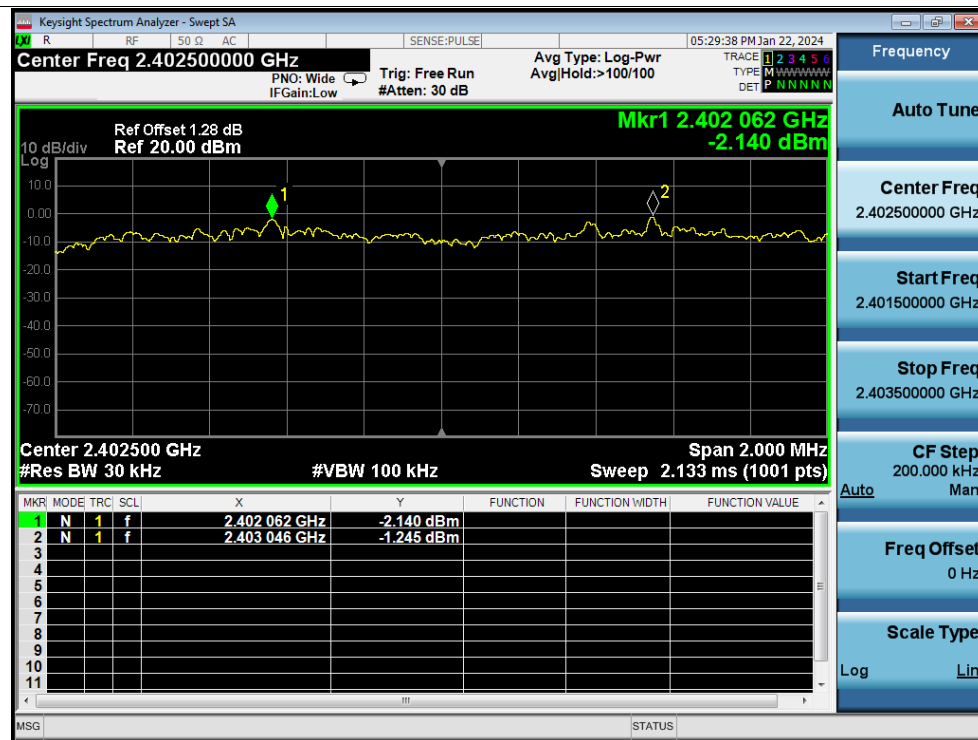
CFS NVNT 2-DH5 2441MHz Ant1



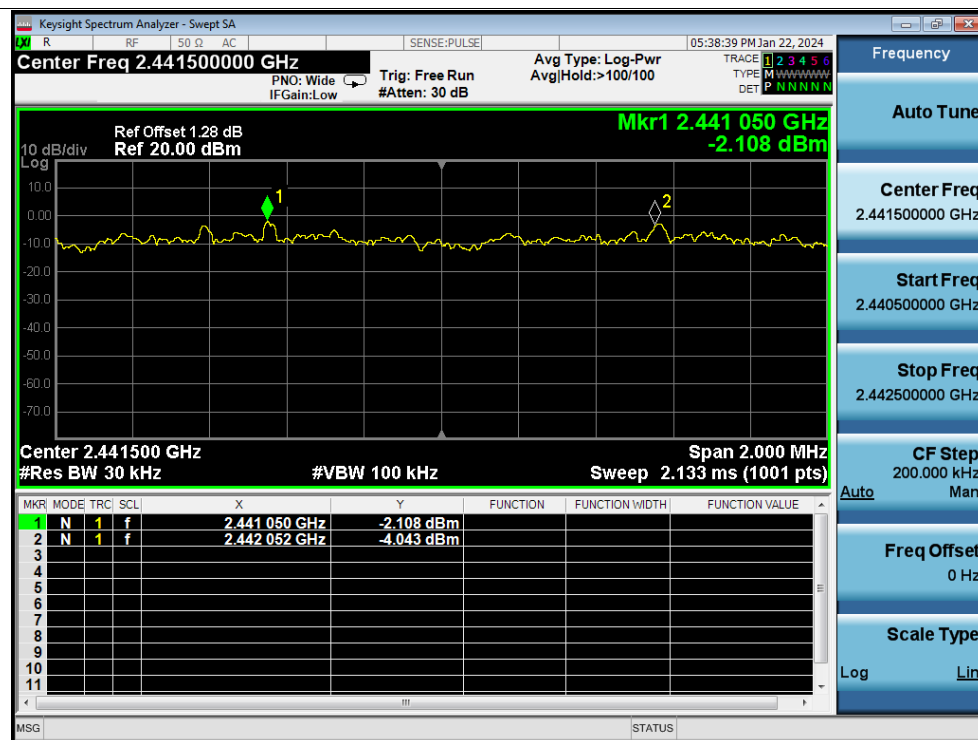
CFS NVNT 2-DH5 2480MHz Ant1



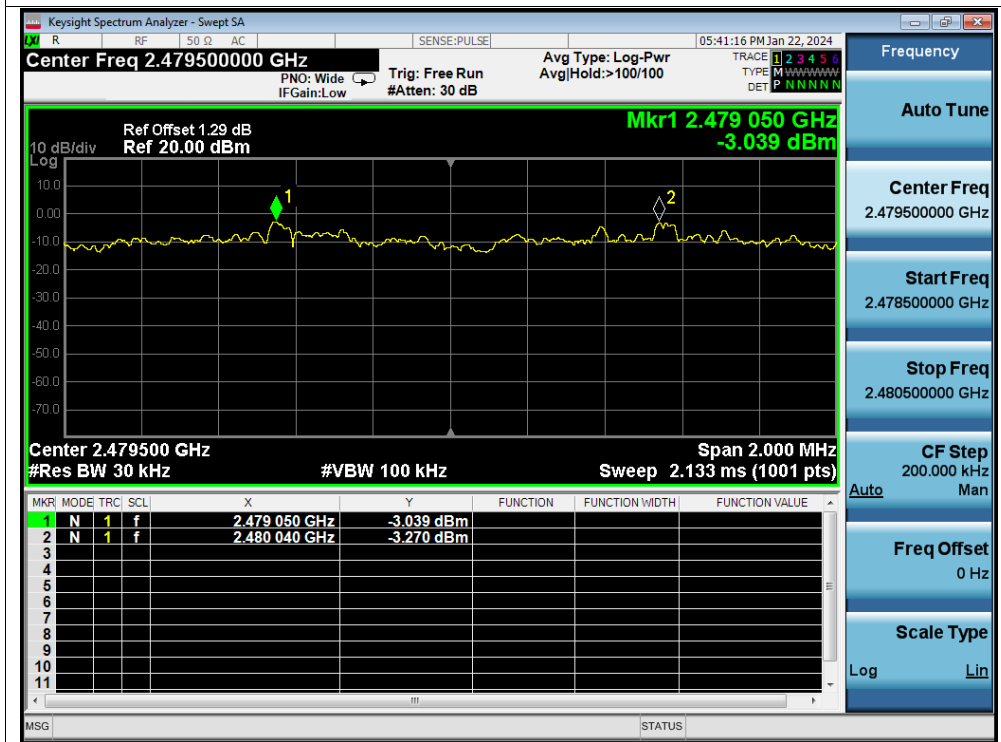
CFS NVNT 3-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2441MHz Ant1



CFS NVNT 3-DH5 2480MHz Ant1

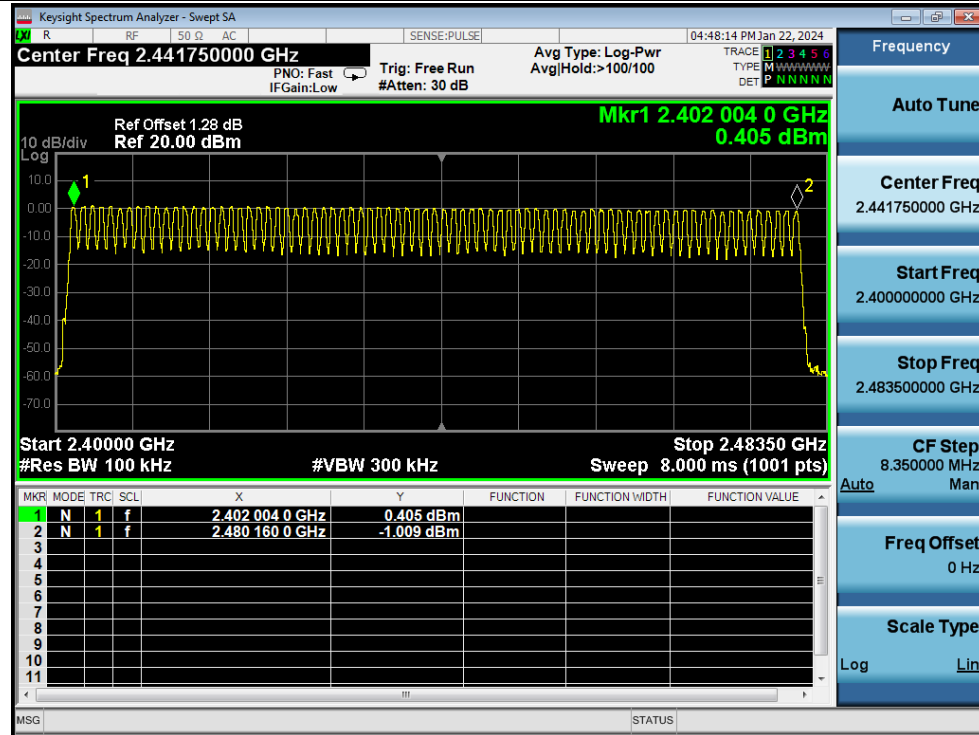


Number of Hopping Channel

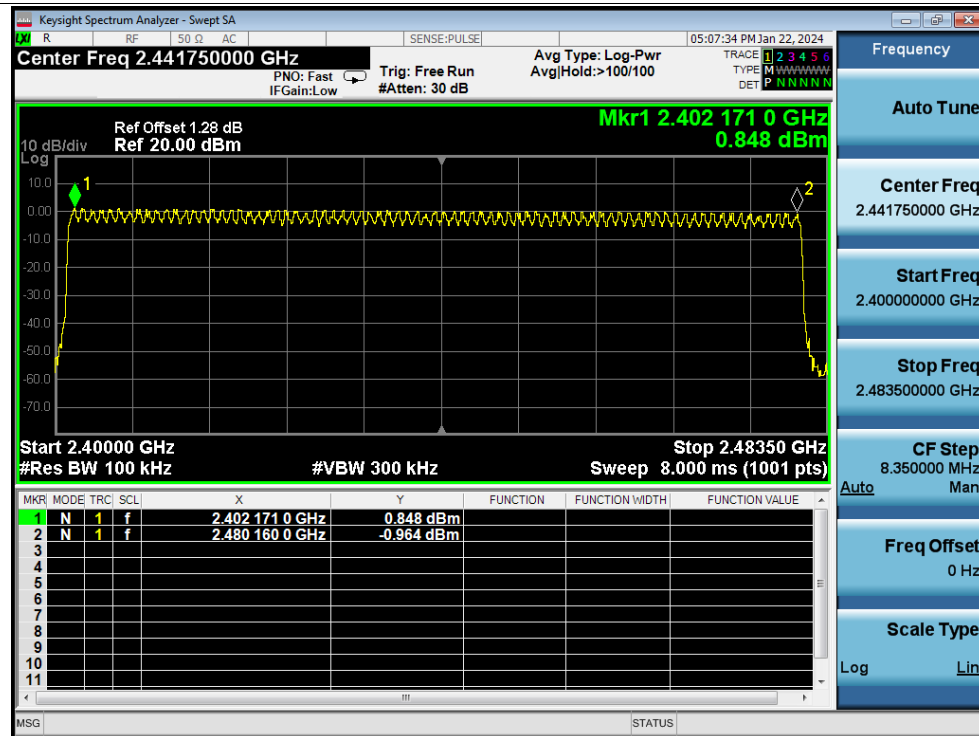
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

Test Graphs

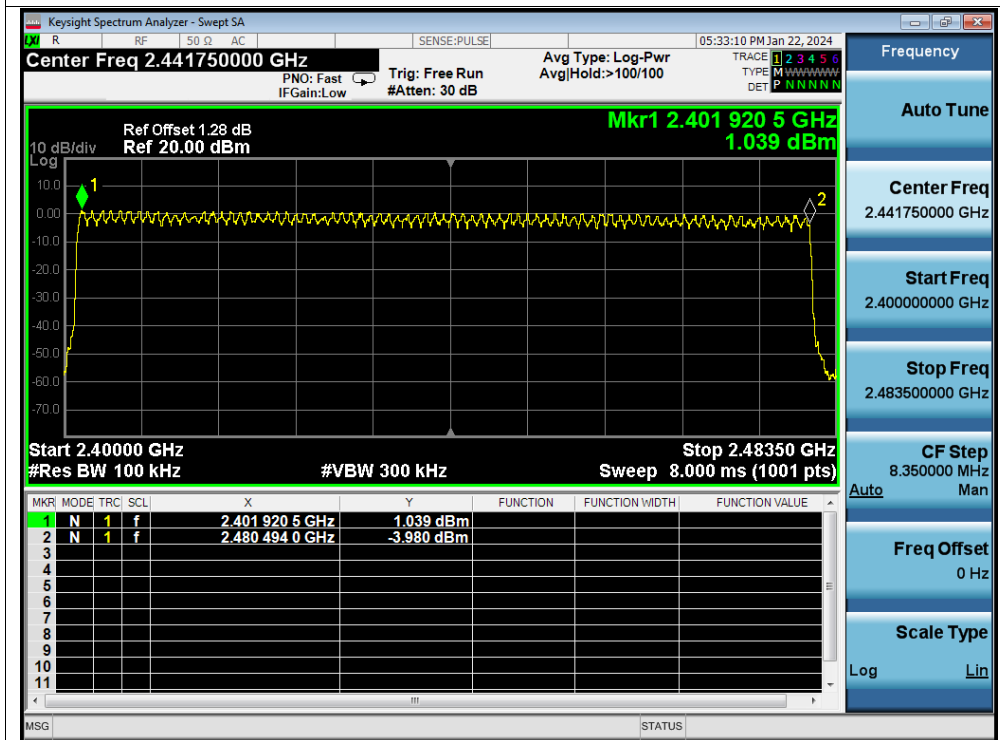
Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



Hopping No. NVNT 3-DH5 2402MHz Ant1

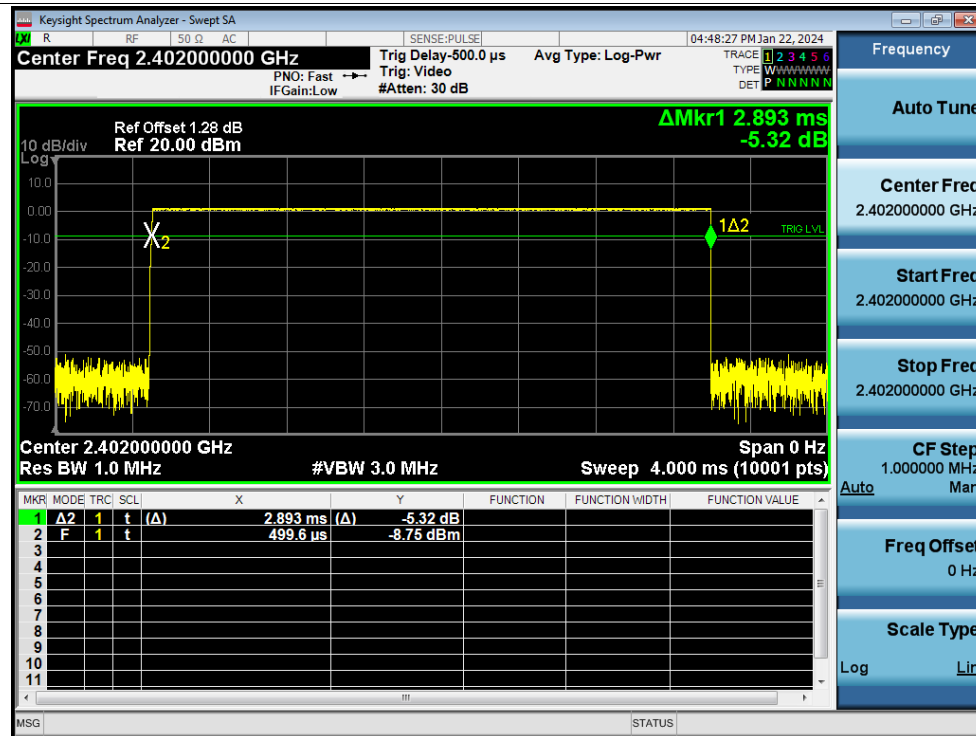


Dwell Time

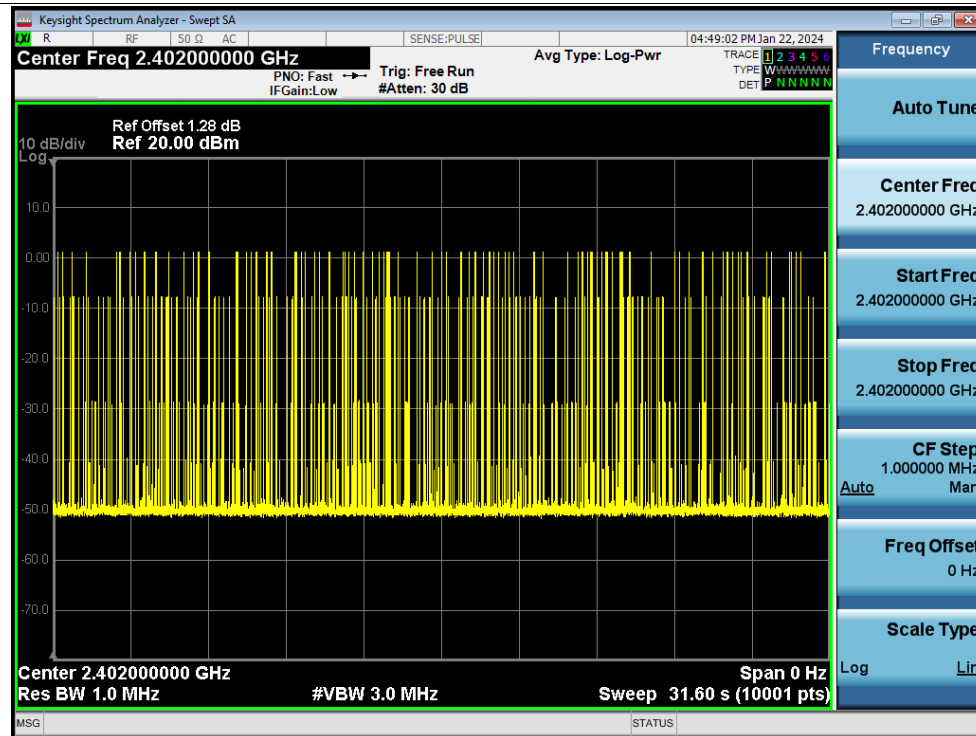
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.893	283.514	98	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.89	262.99	91	31600	400	Pass
NVNT	1-DH5	2480	Ant1	2.893	300.872	104	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	289.8	100	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.894	289.4	100	31600	400	Pass
NVNT	2-DH5	2480	Ant1	2.898	333.27	115	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.9	336.4	116	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.896	295.392	102	31600	400	Pass
NVNT	3-DH5	2480	Ant1	2.897	301.288	104	31600	400	Pass

Test Graphs

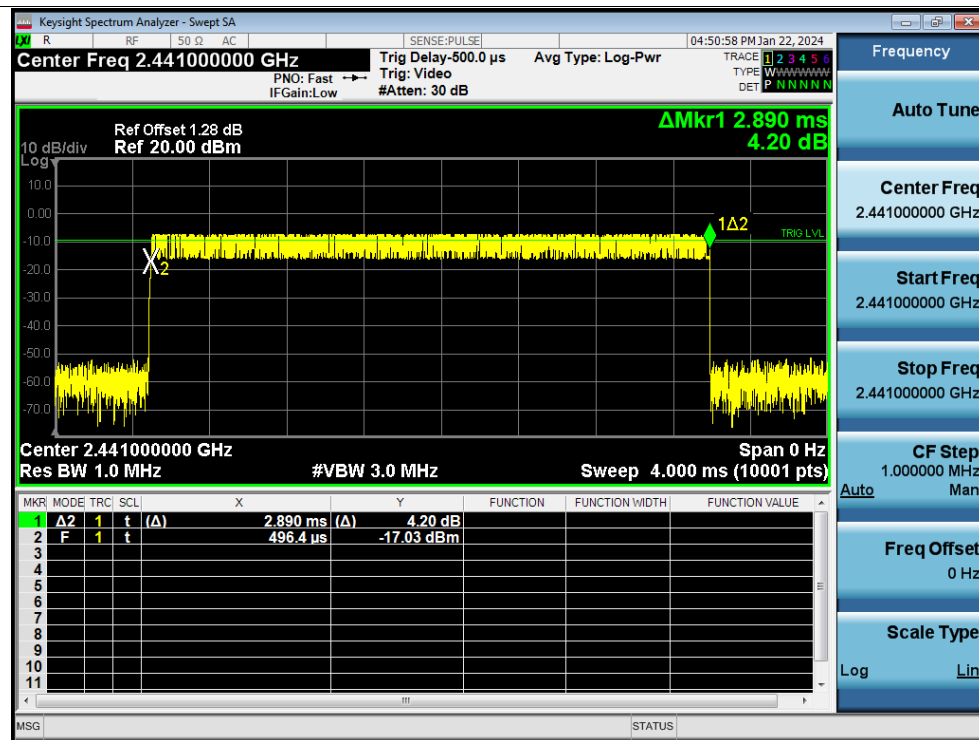
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



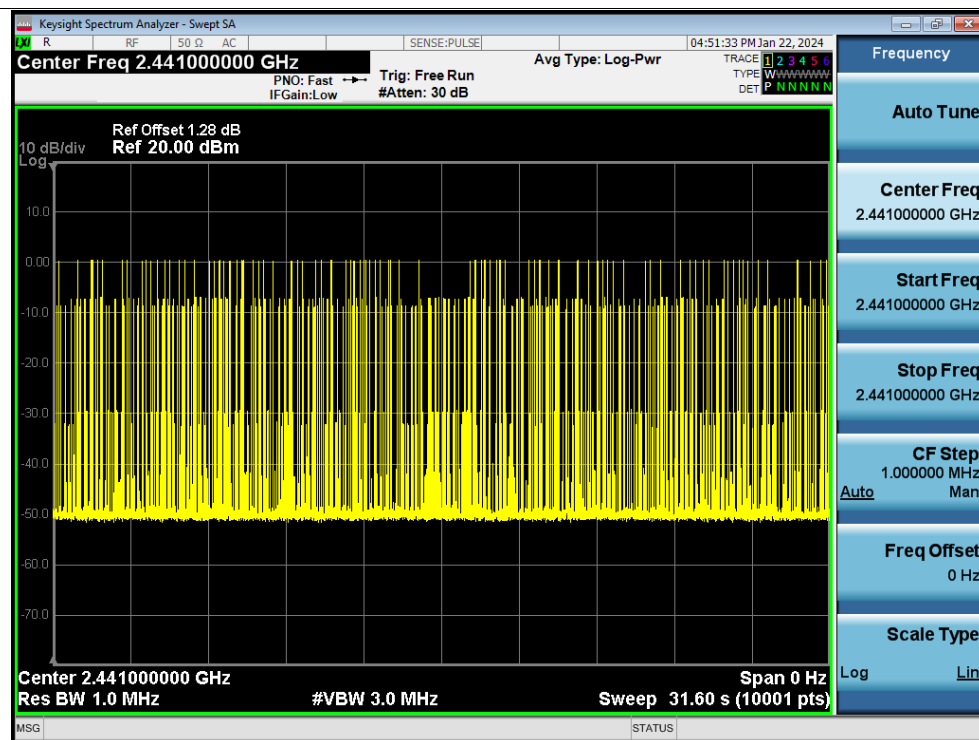
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



Dwell NVNT 1-DH5 2441MHz Ant1 One Burst



Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated



Dwell NVNT 1-DHS 2480MHz Ant1 One Burst

Kaysight Spectrum Analyzer - Swept SA

R RF 50 Ω AC SENSE:PULSE 04:53:12 PM Jan 22, 2024

Center Freq 2.480000000 GHz Trig Delay: 500.0 μs Avg Type: Log-Pwr TRACE 1 2 3 4 5 6
PNO: Fast → Trig: Video TYPE WWWWWW P NNNNN
IFGain: Low #Atten: 30 dB DET

Ref Offset 1.29 dB ΔMkr1 2.893 ms
Ref 20.00 dBm -6.29 dB

10 dB/div Log

X₂ 1Δ2 TRIG LVL

Center 2.480000000 GHz Span 0 Hz
Res BW 1.0 MHz #VBW 3.0 MHz Sweep 4.000 ms (10001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ2	1	t	(Δ)	2.893 ms (Δ) -6.29 dB			
2	F	1	t		499.6 μs -10.36 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq
2.480000000 GHz

Start Freq
2.480000000 GHz

Stop Freq
2.480000000 GHz

CF Step
1.000000 MHz
Man

Autu

Freq Offset
0 Hz

Scale Type
Log Lin

Keysight Spectrum Analyzer - Swept SA

R RF 50 Ω AC SENSE:PULSE 04:53:47 PM Jan 22, 2024

Center Freq 2.480000000 GHz Avg Type: Log-Pwr

PNO: Fast → Trig: Free Run
IF Gain: Low #Atten: 30 dB

TRACE 1 2 3 4 5 6
TYPE W W W W W W W W W W
DET P N N N N N

Ref Offset 1.29 dB
Ref 20.00 dBm

10 dB/div
Log

The plot shows a dense signal at 2.48 GHz. The vertical axis is labeled 'Log' and ranges from -70.0 to 10.0 dBm. The horizontal axis is labeled 'Span 0 Hz' and ranges from 0 to 31.60 s (10001 pts). The signal is centered at 2.480000000 GHz with a resolution bandwidth (Res BW) of 1.0 MHz and a video bandwidth (VBW) of 3.0 MHz. The signal level is approximately -50 dBm.

Center 2.480000000 GHz Span 0 Hz
Res BW 1.0 MHz #VBW 3.0 MHz Sweep 31.60 s (10001 pts)

Frequency

Auto Tune

Center Freq
2.480000000 GHz

Start Freq
2.480000000 GHz

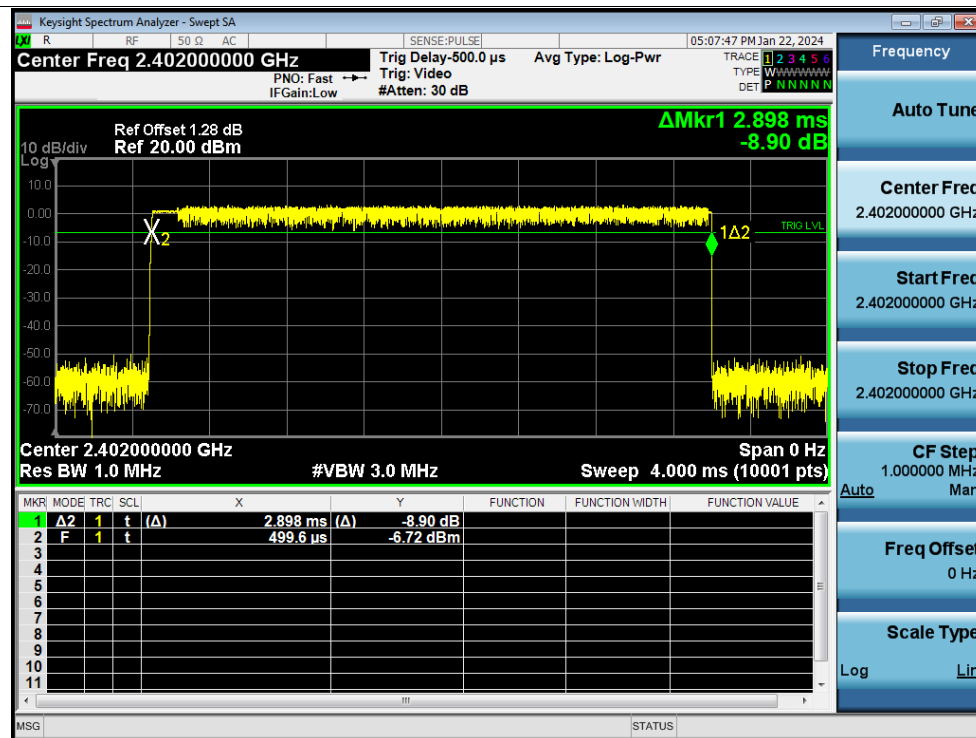
Stop Freq
2.480000000 GHz

CF Step
1.000000 MHz
Auto Man

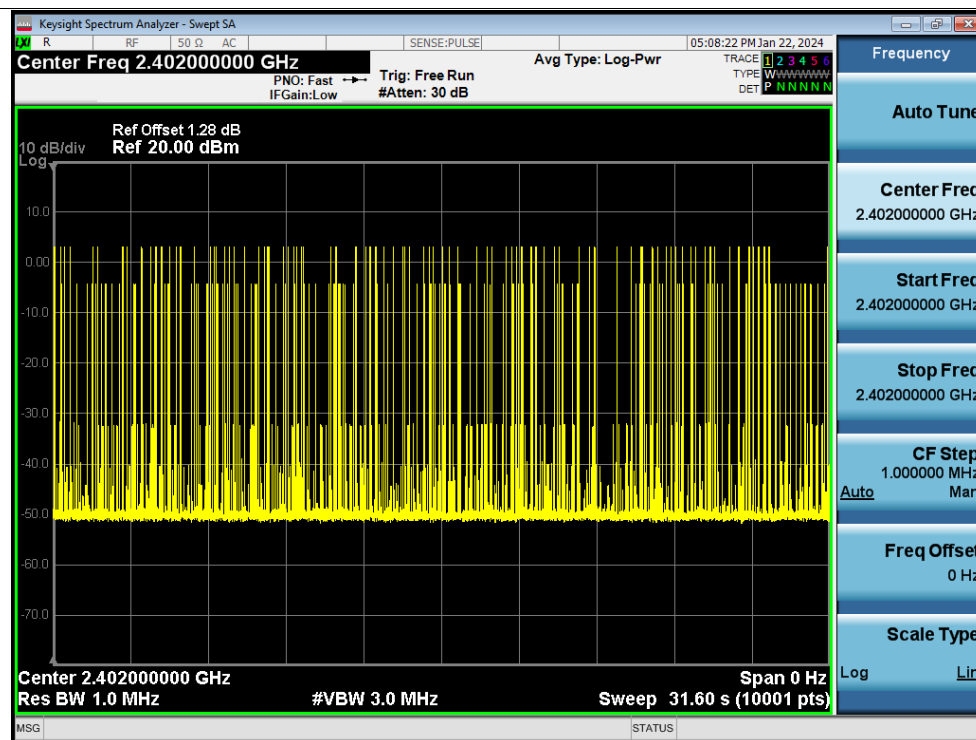
Freq Offset
0 Hz

Scale Type
Log Lin

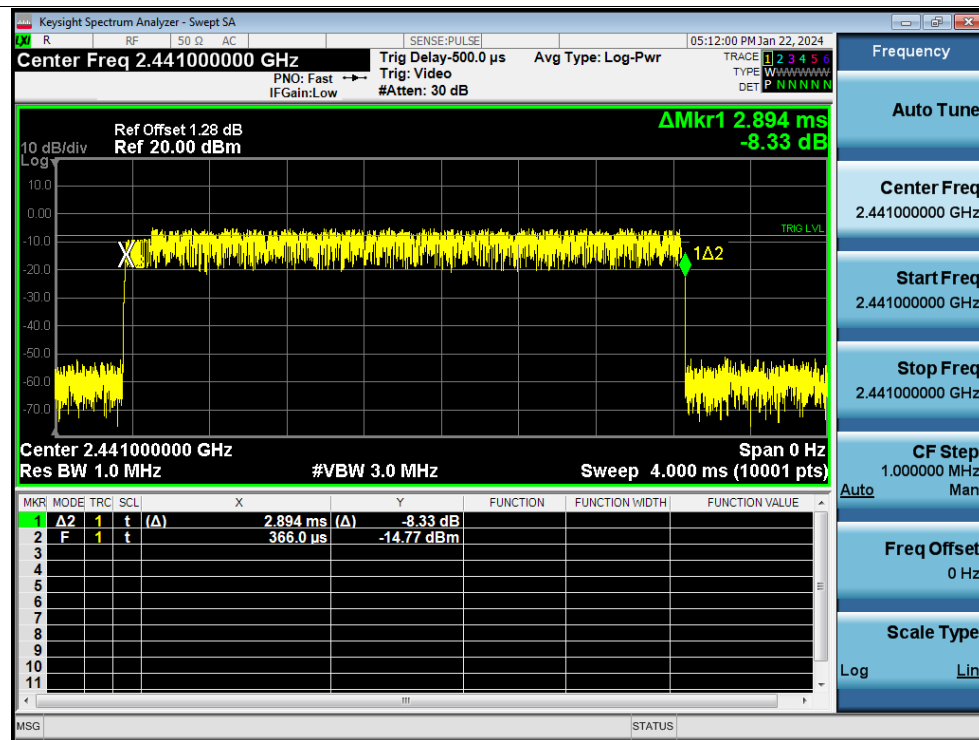
Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



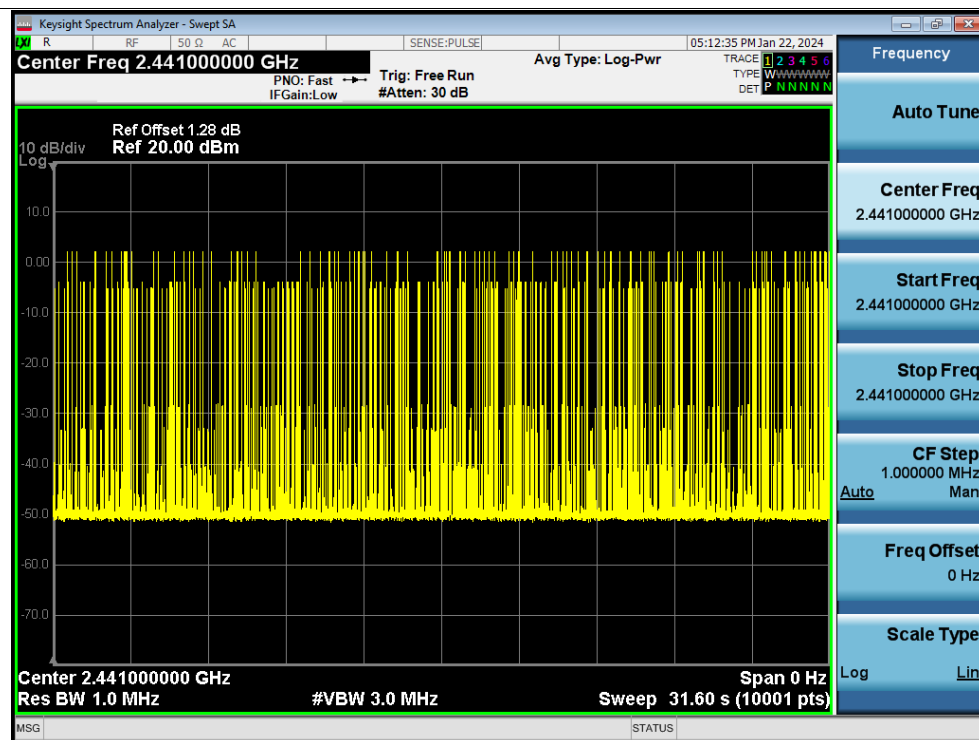
Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



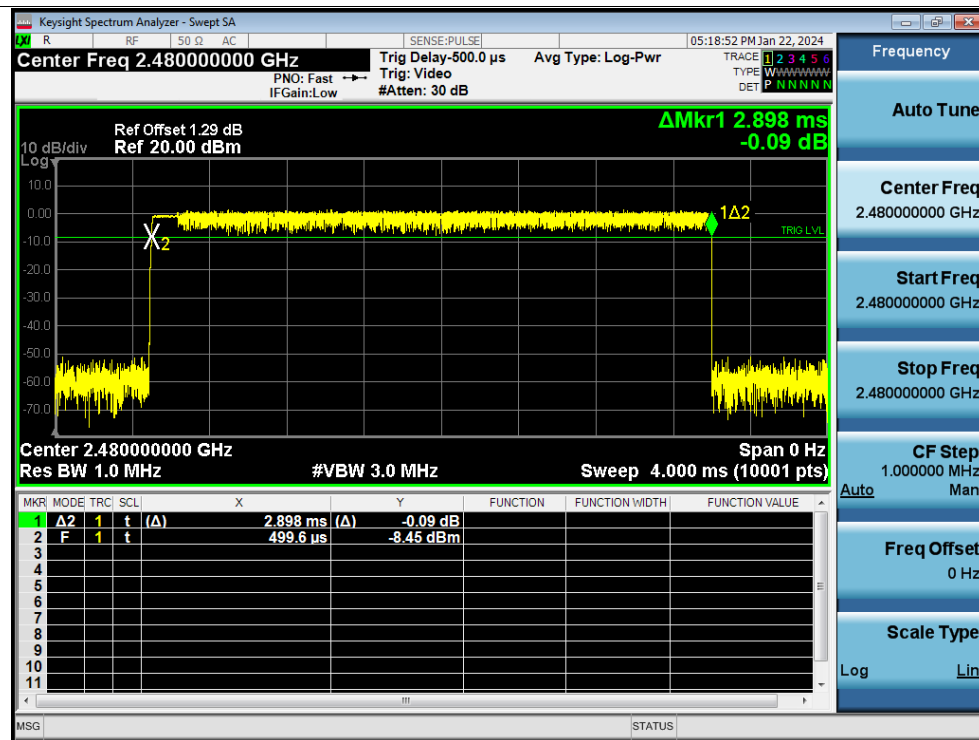
Dwell NVNT 2-DH5 2441MHz Ant1 One Burst



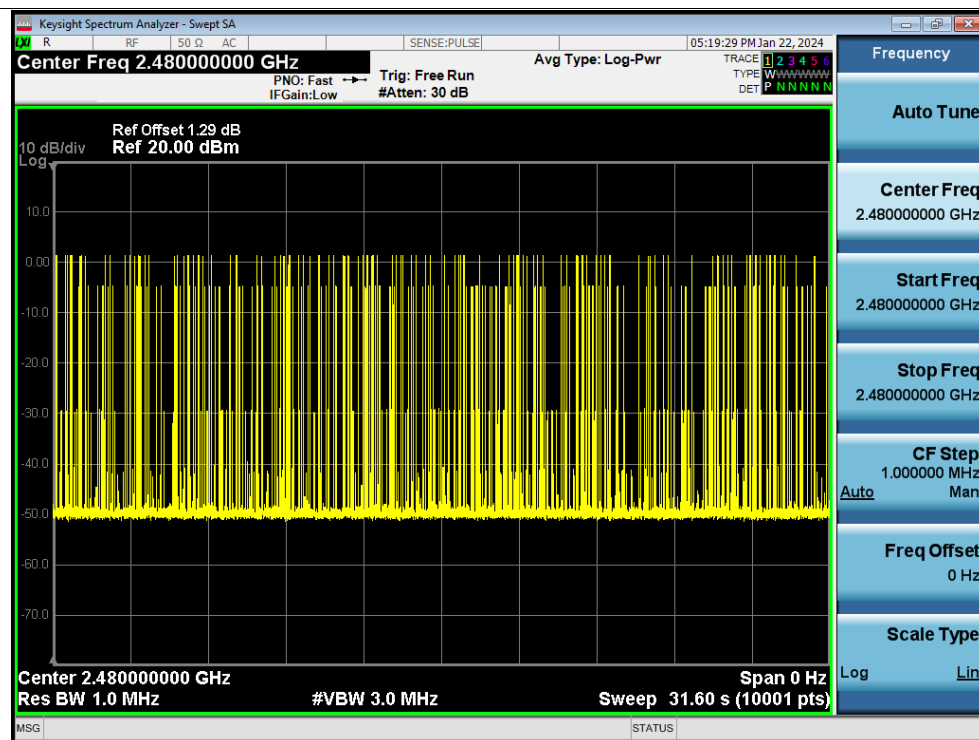
Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated



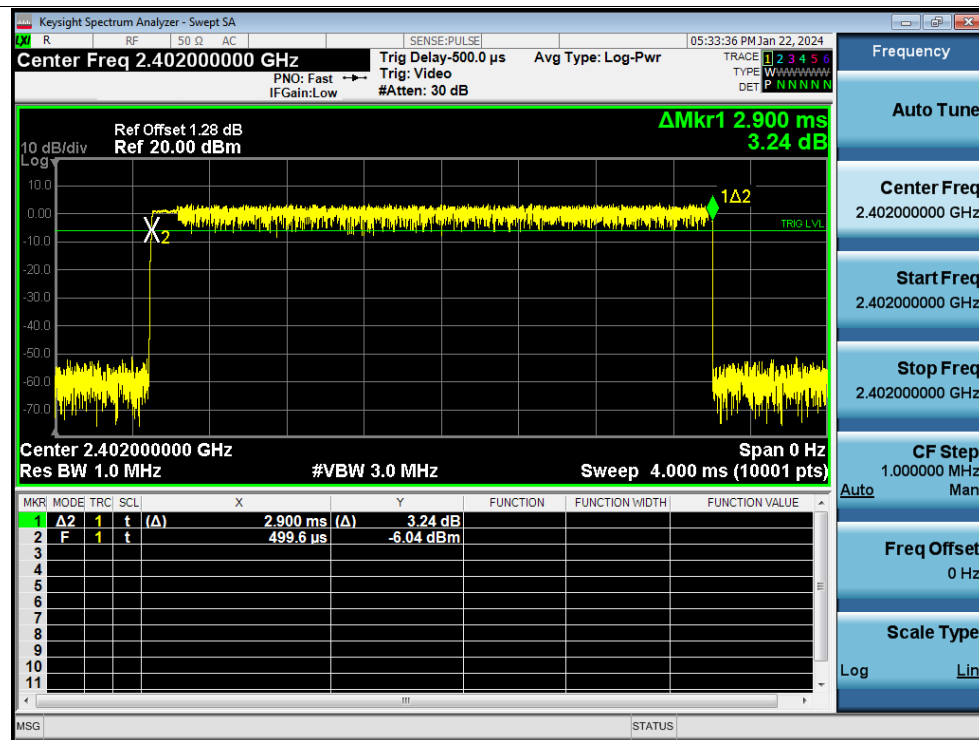
Dwell NVNT 2-DH5 2480MHz Ant1 One Burst



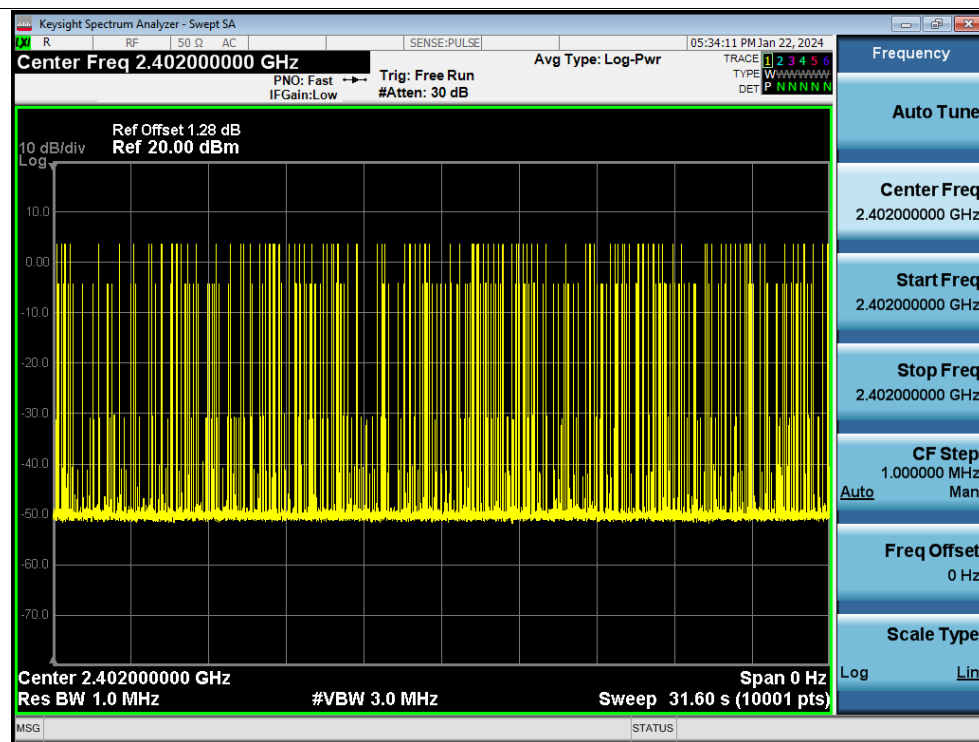
Dwell NVNT 2-DH5 2480MHz Ant1 Accumulated



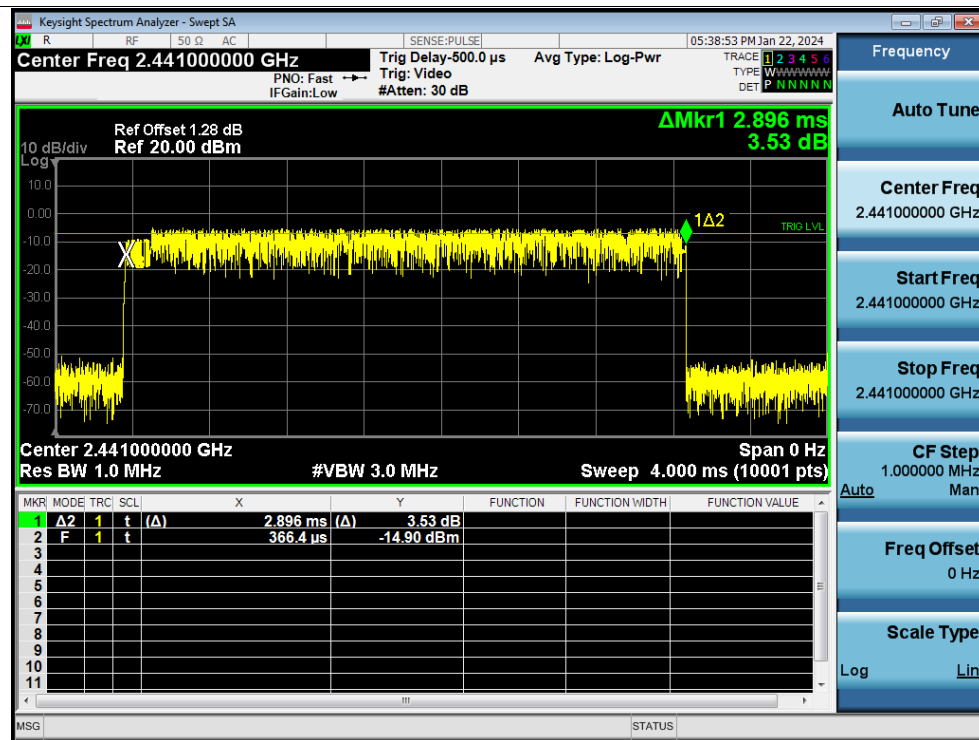
Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



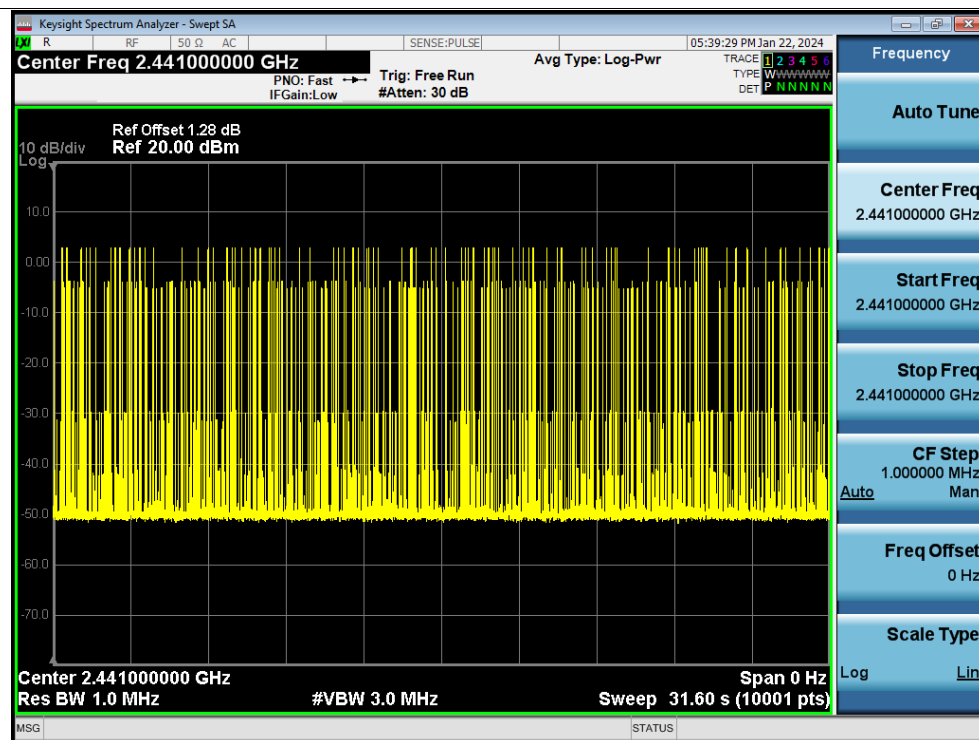
Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



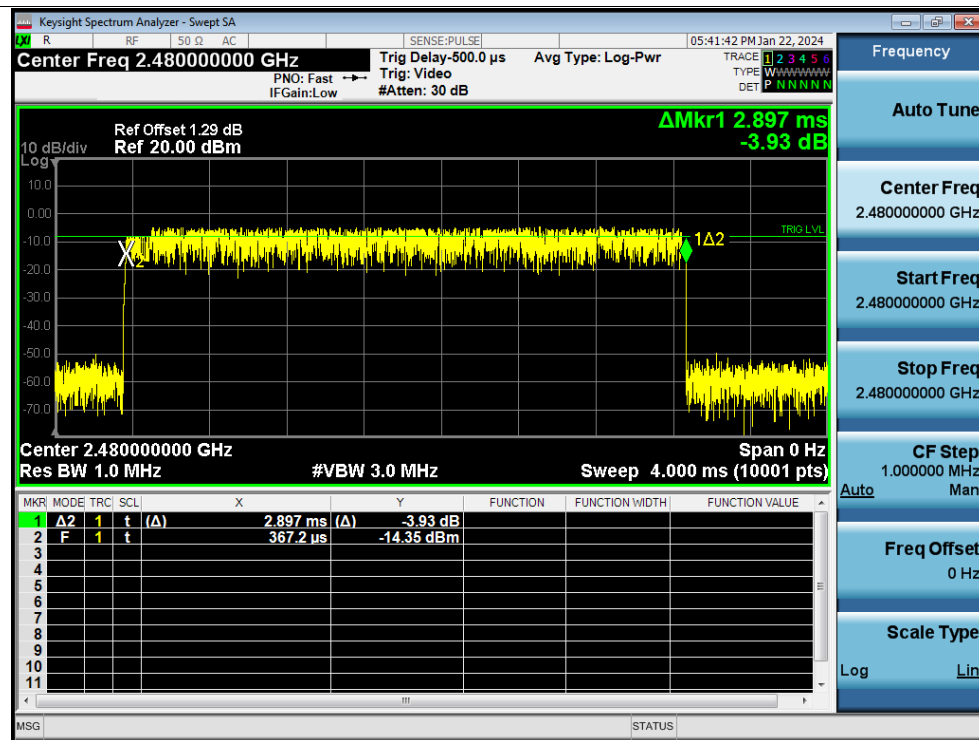
Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



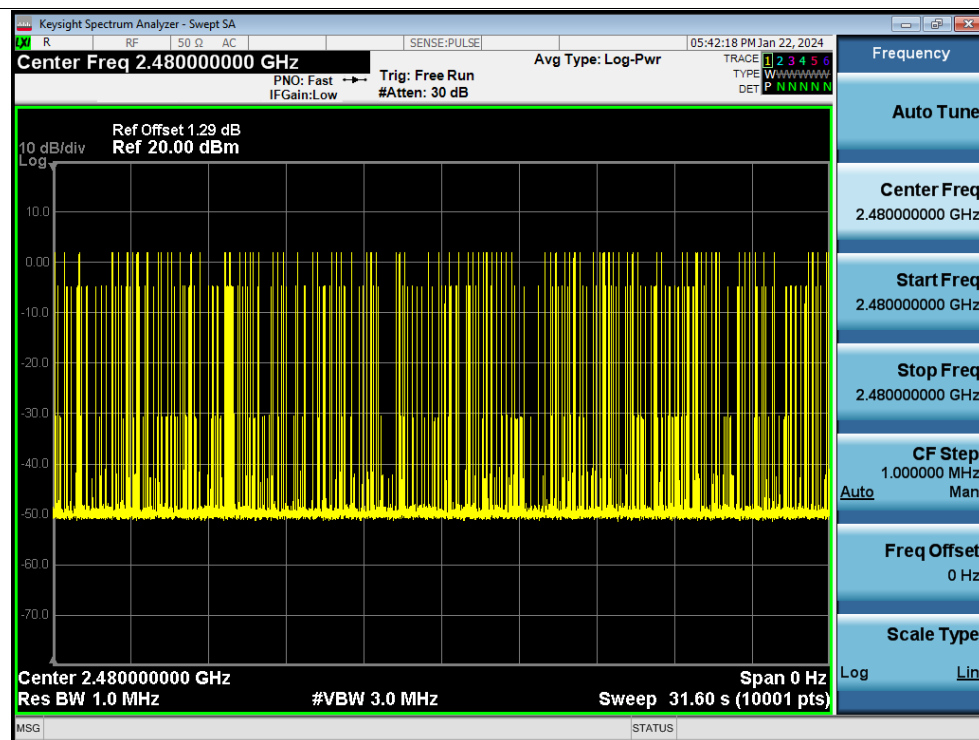
Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2480MHz Ant1 One Burst



Dwell NVNT 3-DH5 2480MHz Ant1 Accumulated

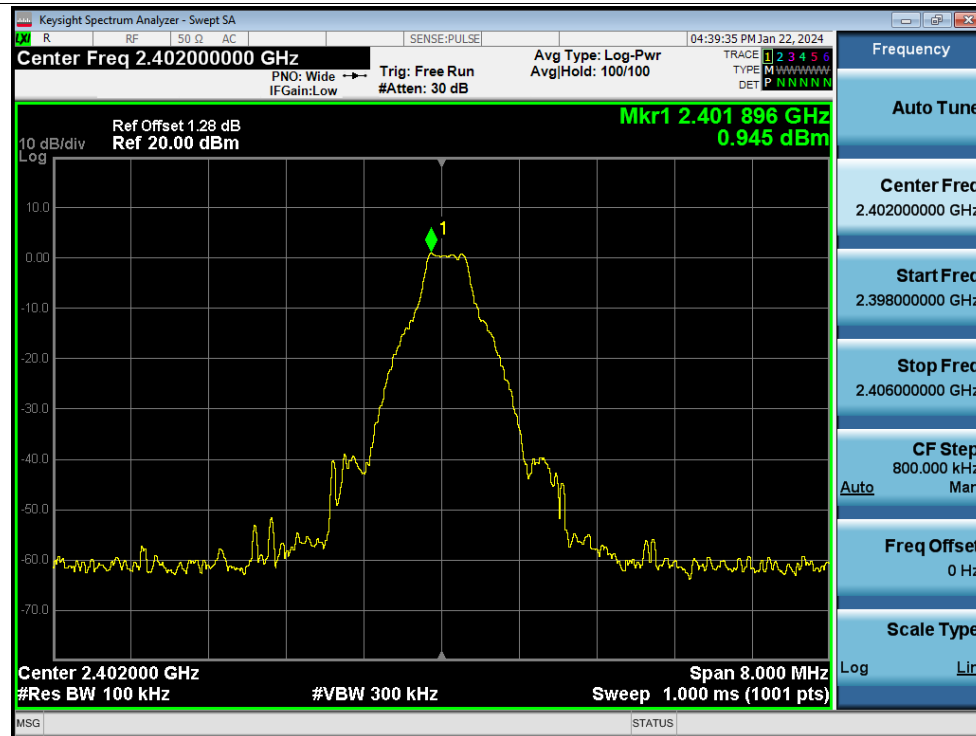


Band Edge

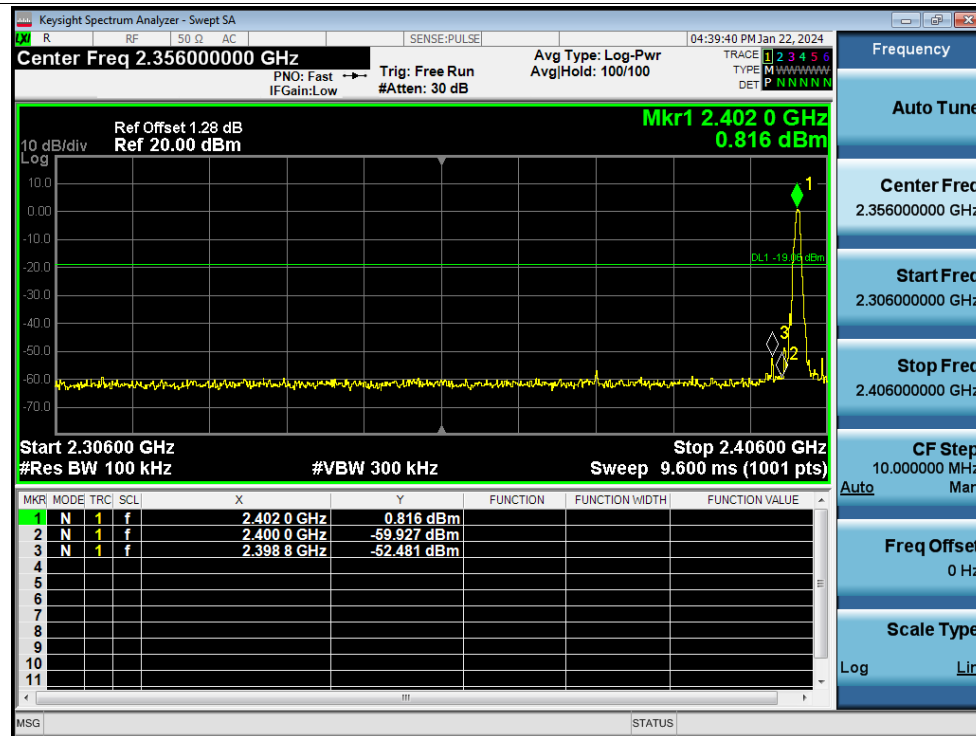
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-53.43	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.48	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-53.97	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-57.02	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-56.64	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-58.63	-20	Pass

Test Graphs

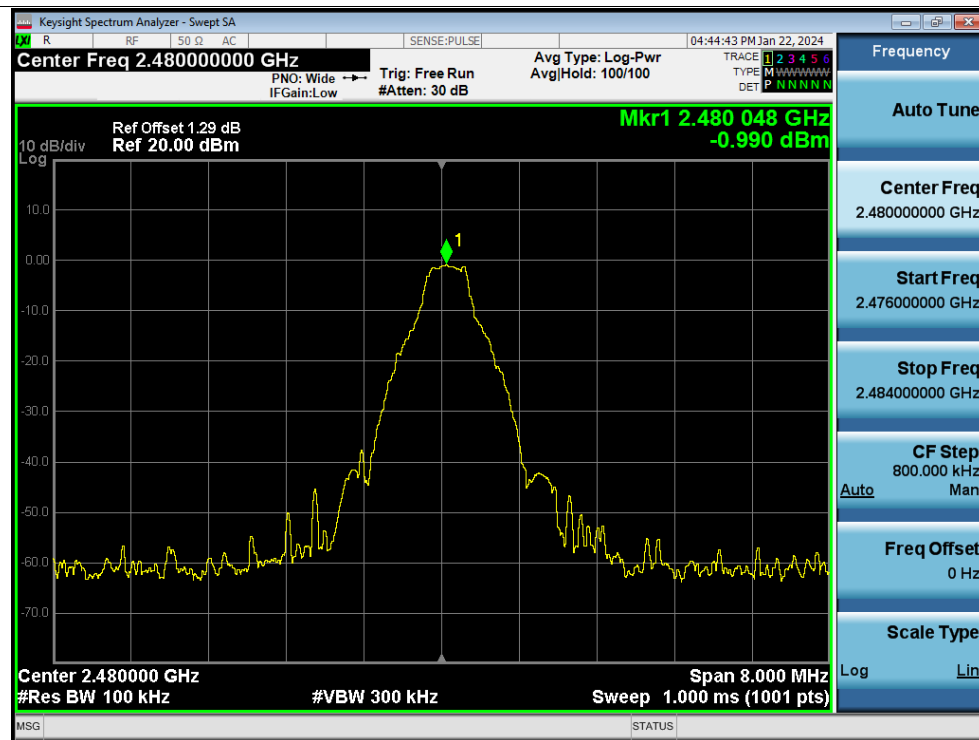
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



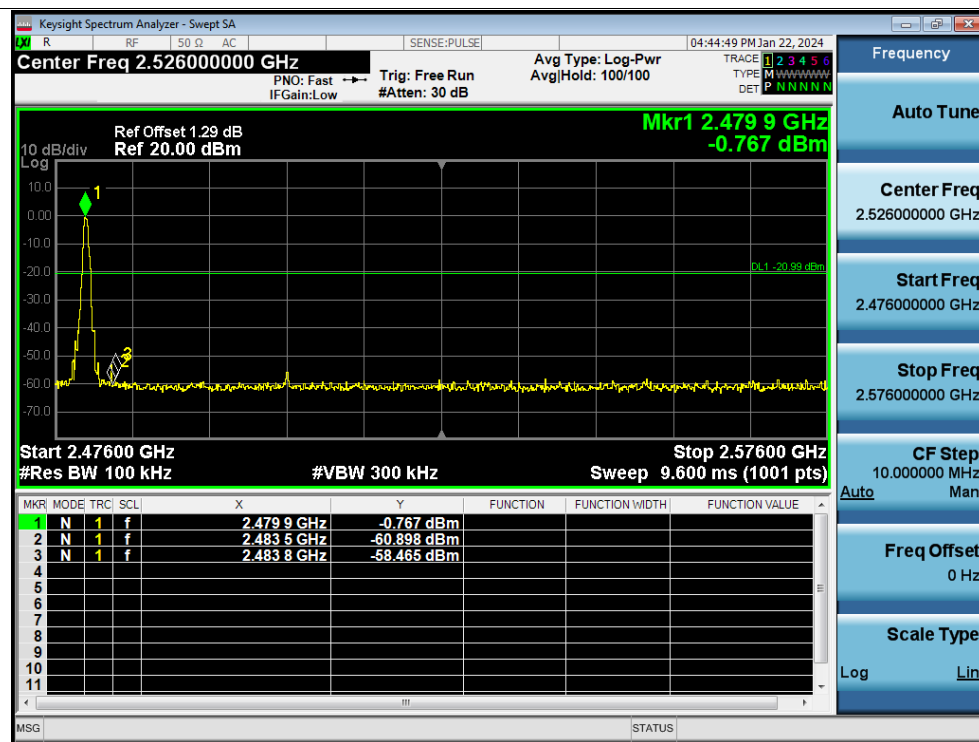
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



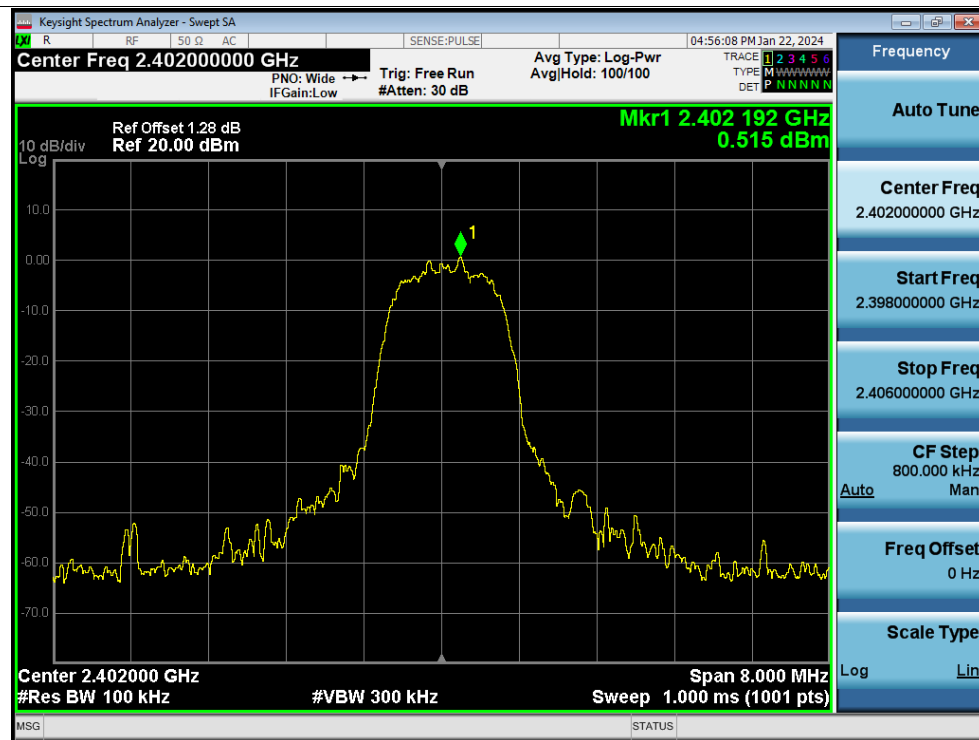
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



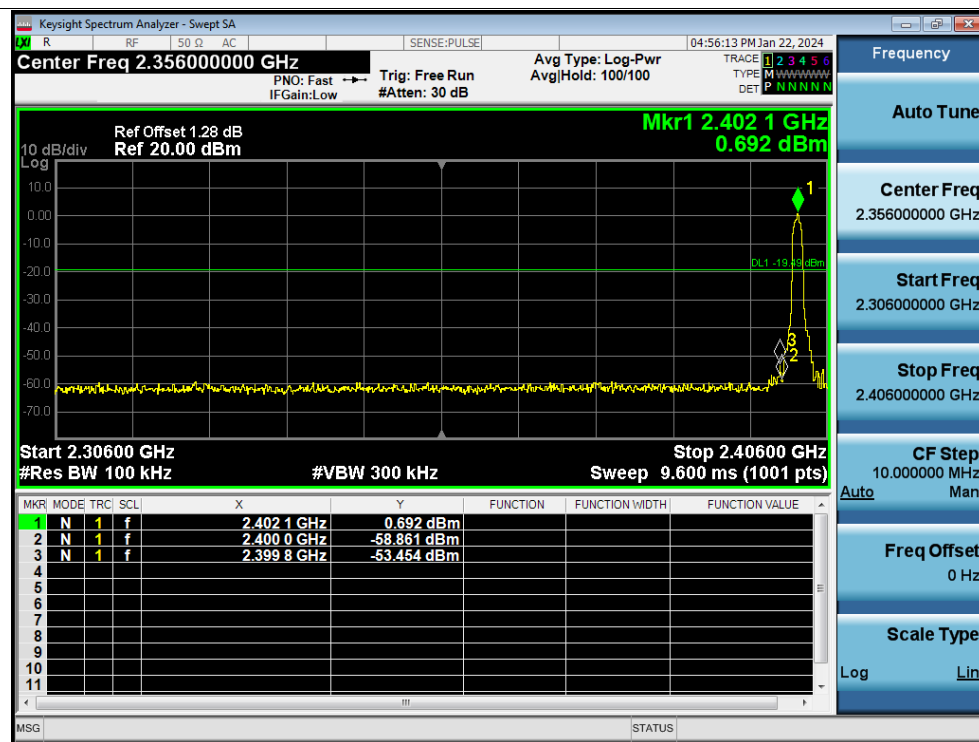
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



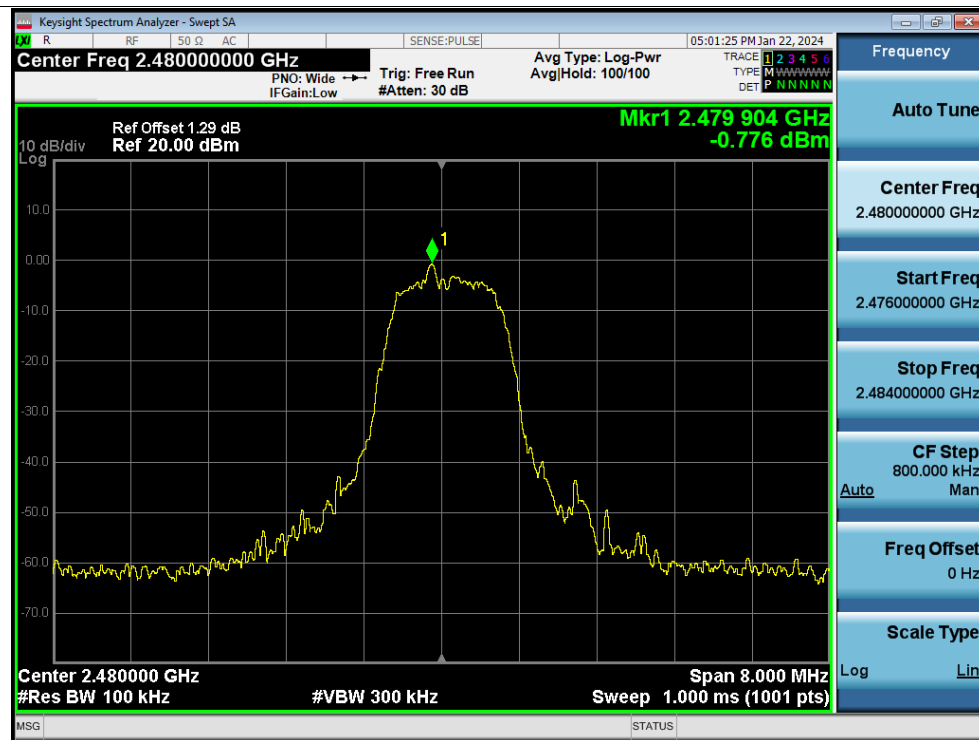
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



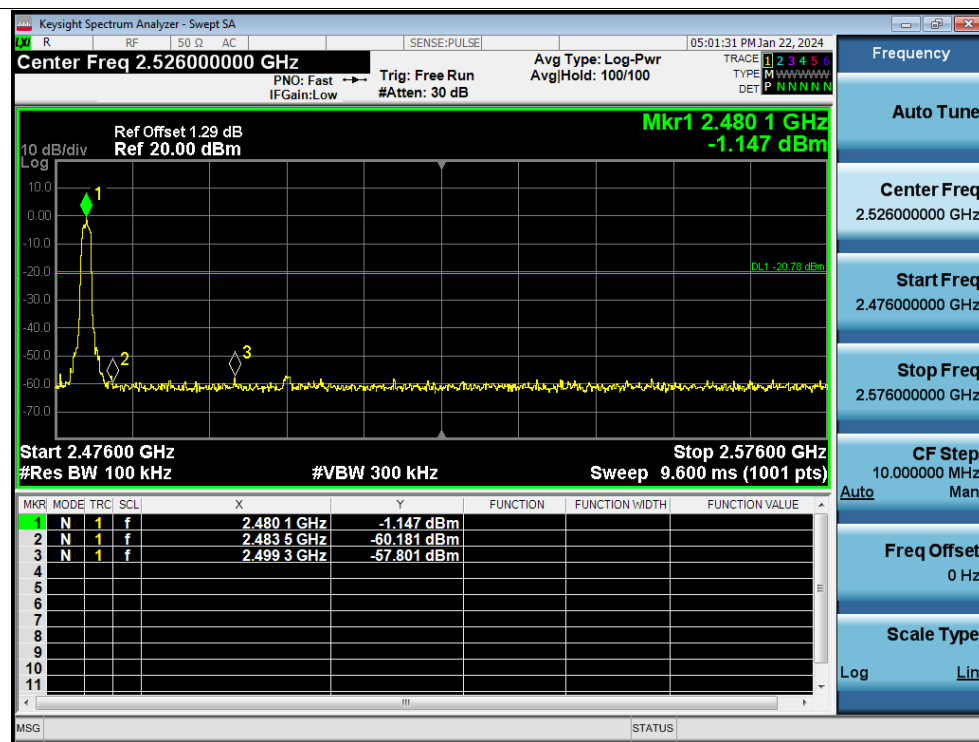
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



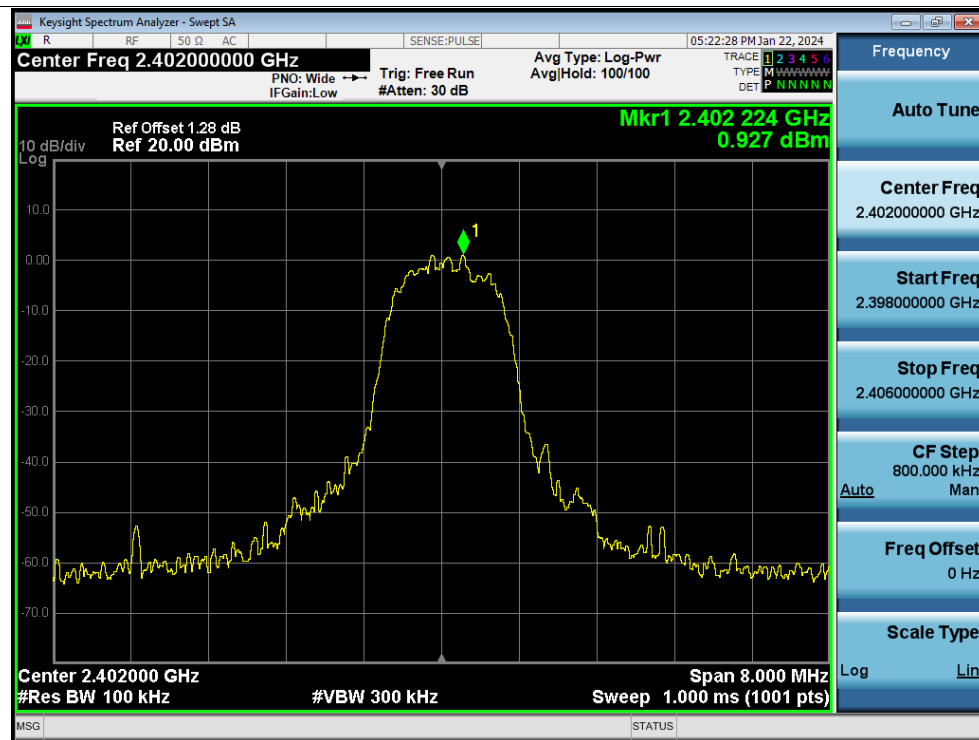
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



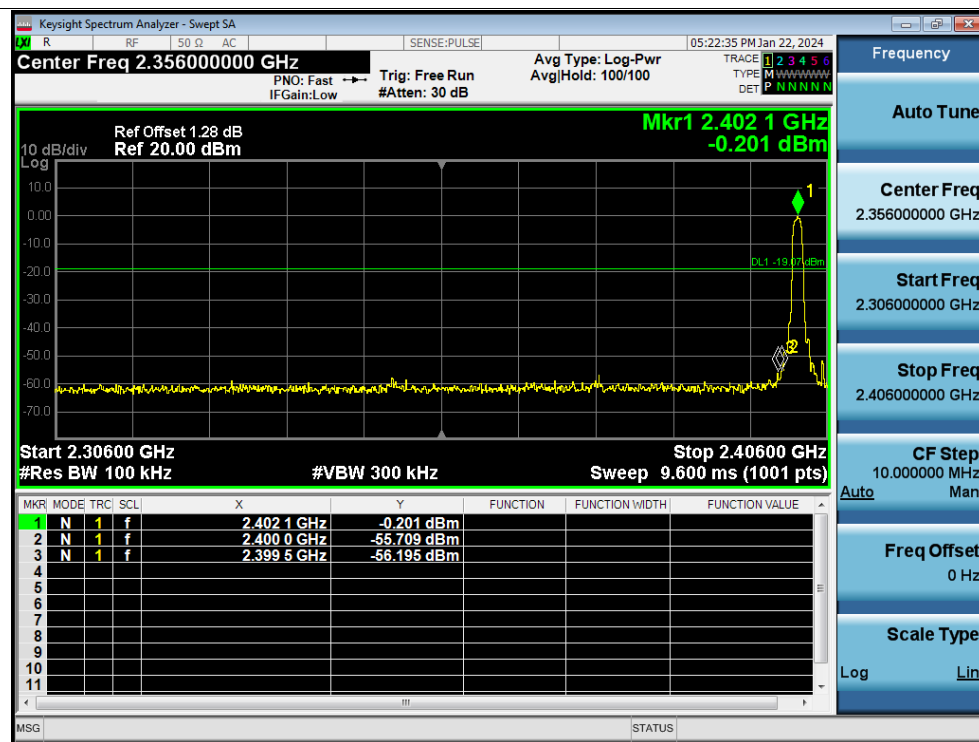
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



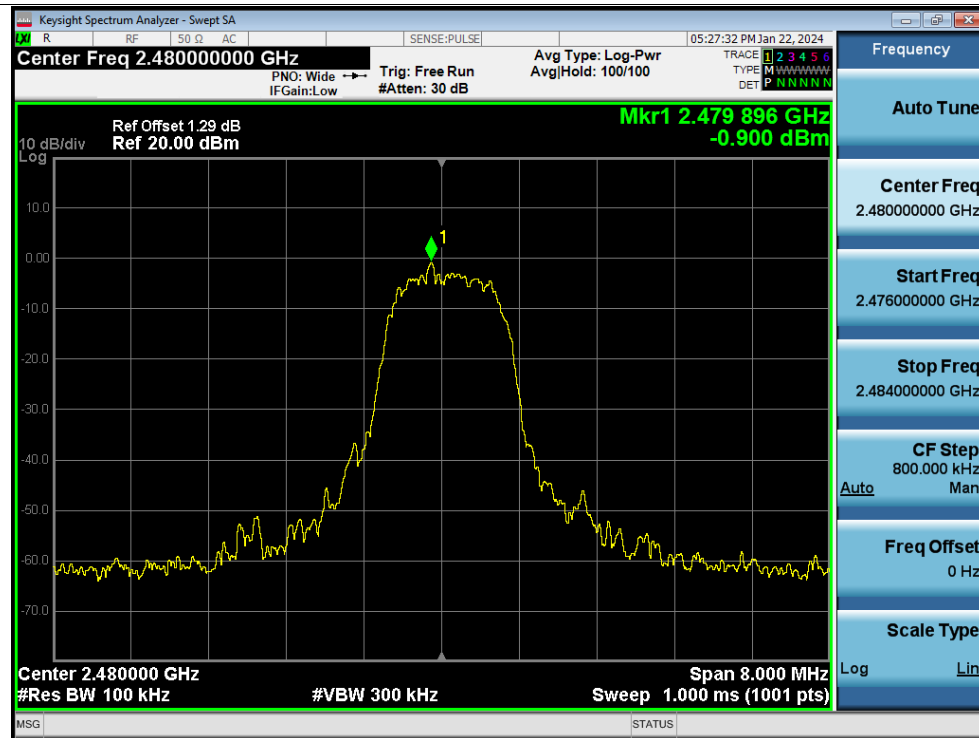
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



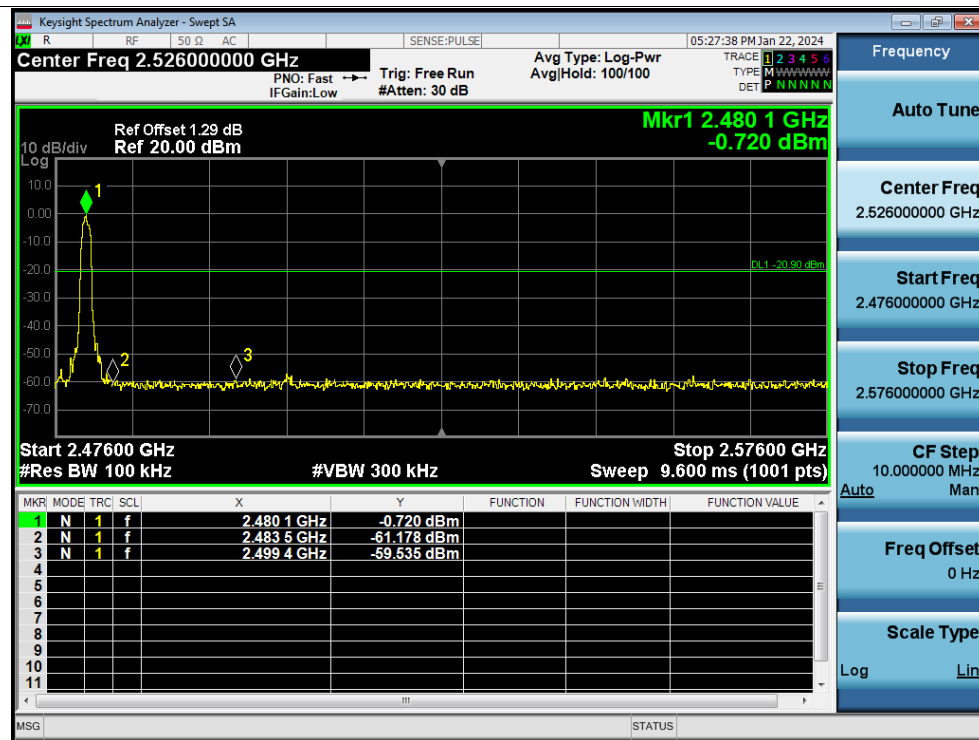
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission



Band Edge(Hopping)

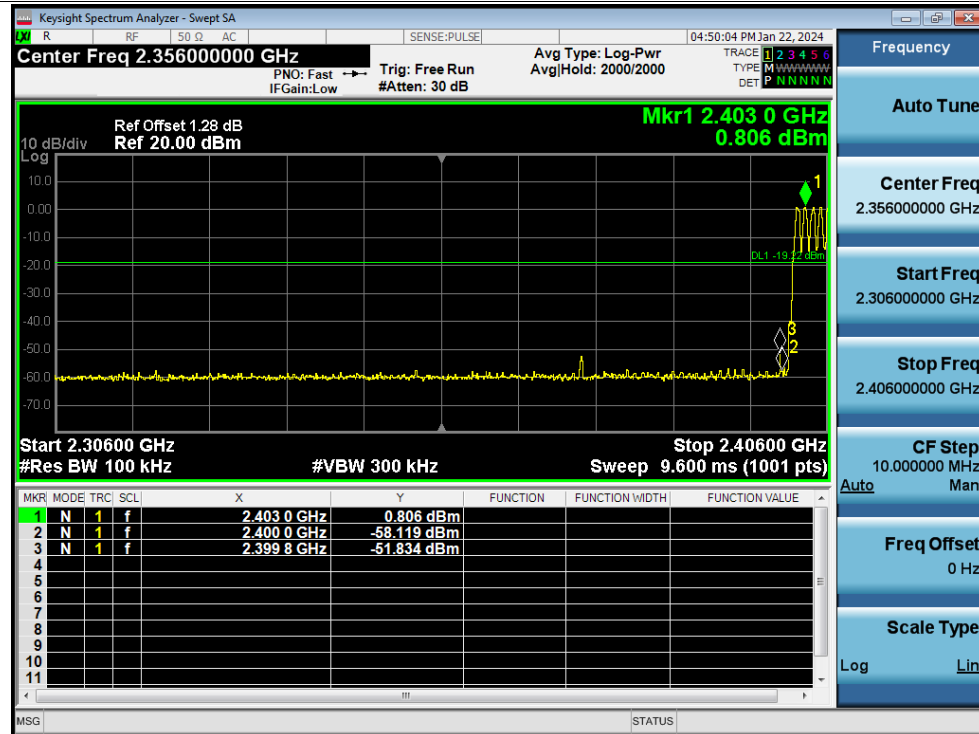
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-52.61	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-54.85	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-56.82	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-55.03	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-53.41	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-57.09	-20	Pass

Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



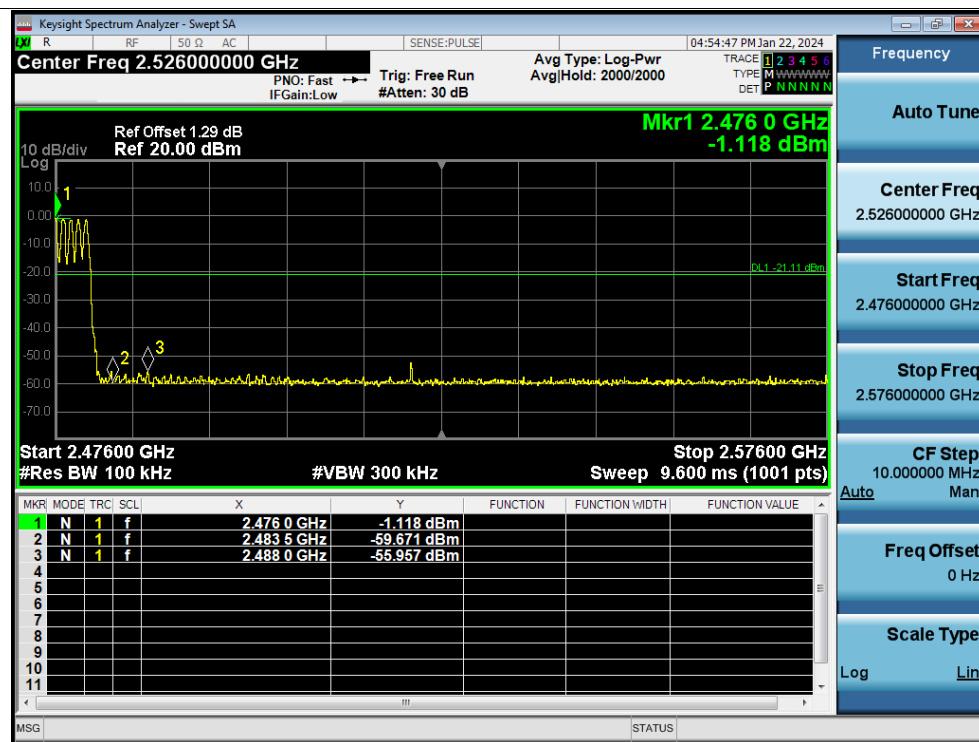
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



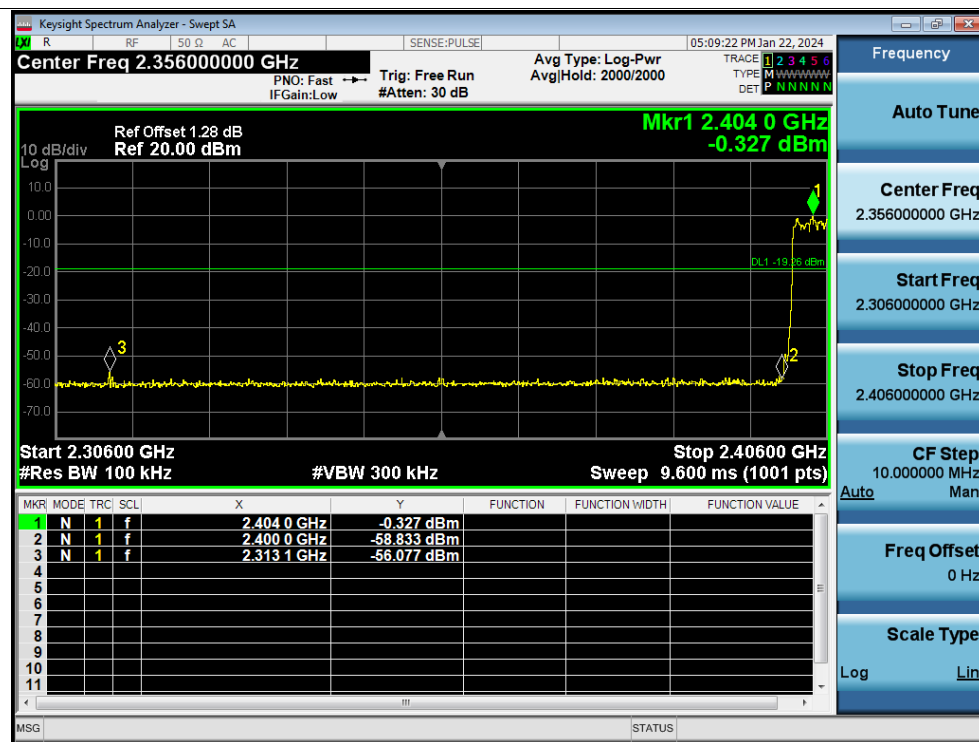
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



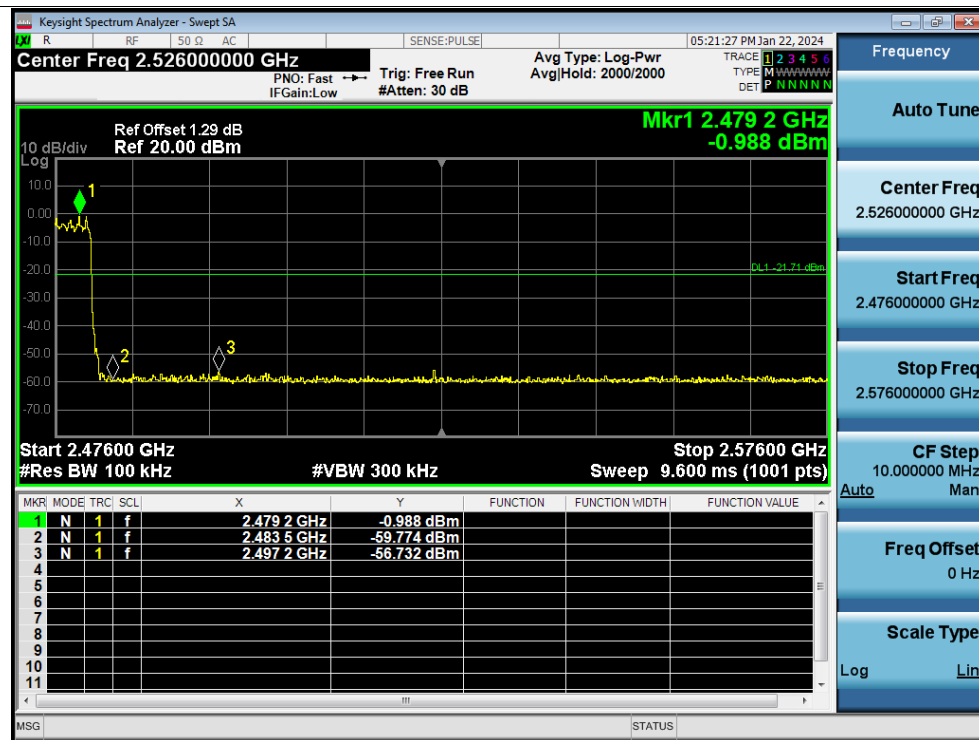
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



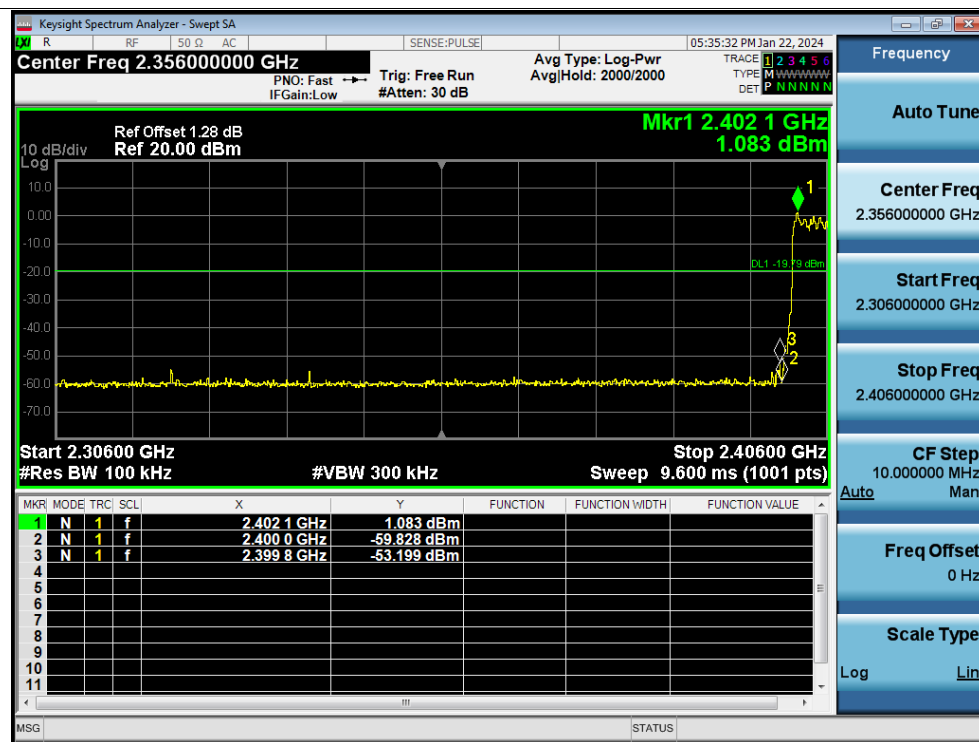
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



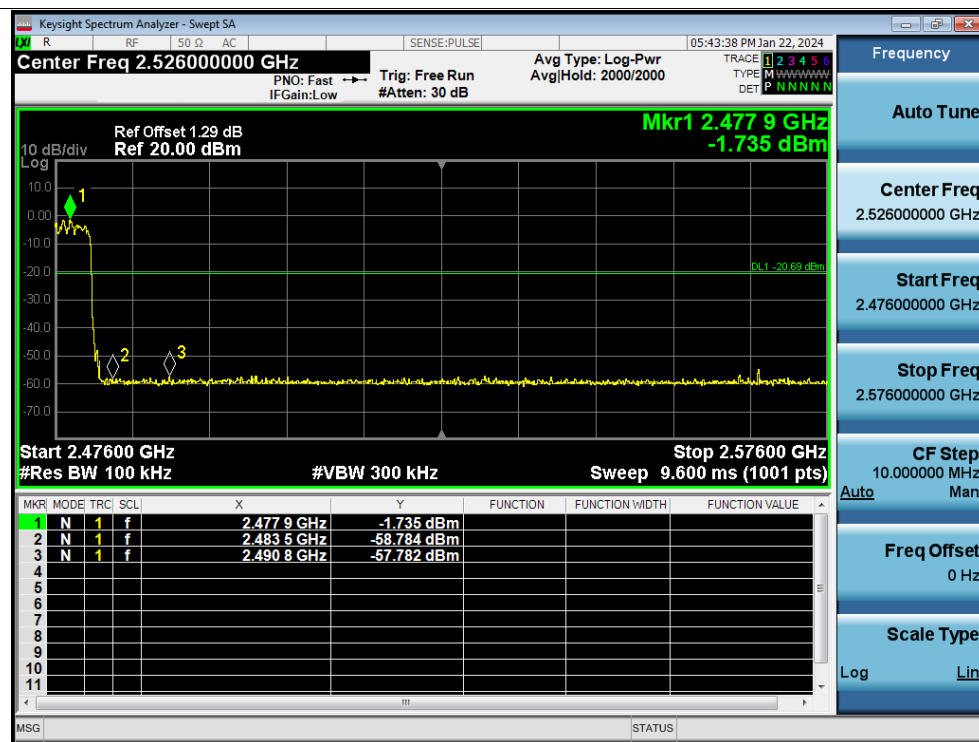
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission



Conducted RF Spurious Emission

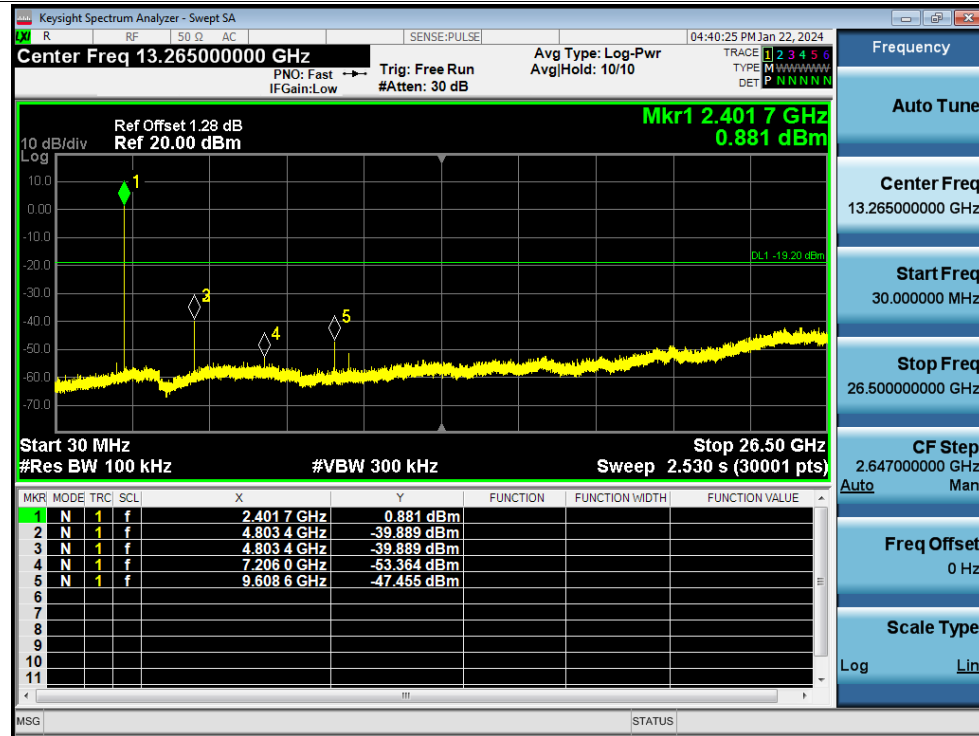
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-40.7	-20	Pass
NVNT	1-DH5	2441	Ant1	-39.94	-20	Pass
NVNT	1-DH5	2480	Ant1	-41.2	-20	Pass
NVNT	2-DH5	2402	Ant1	-42.15	-20	Pass
NVNT	2-DH5	2441	Ant1	-42.19	-20	Pass
NVNT	2-DH5	2480	Ant1	-41.61	-20	Pass
NVNT	3-DH5	2402	Ant1	-43.01	-20	Pass
NVNT	3-DH5	2441	Ant1	-41.29	-20	Pass
NVNT	3-DH5	2480	Ant1	-41.3	-20	Pass

Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



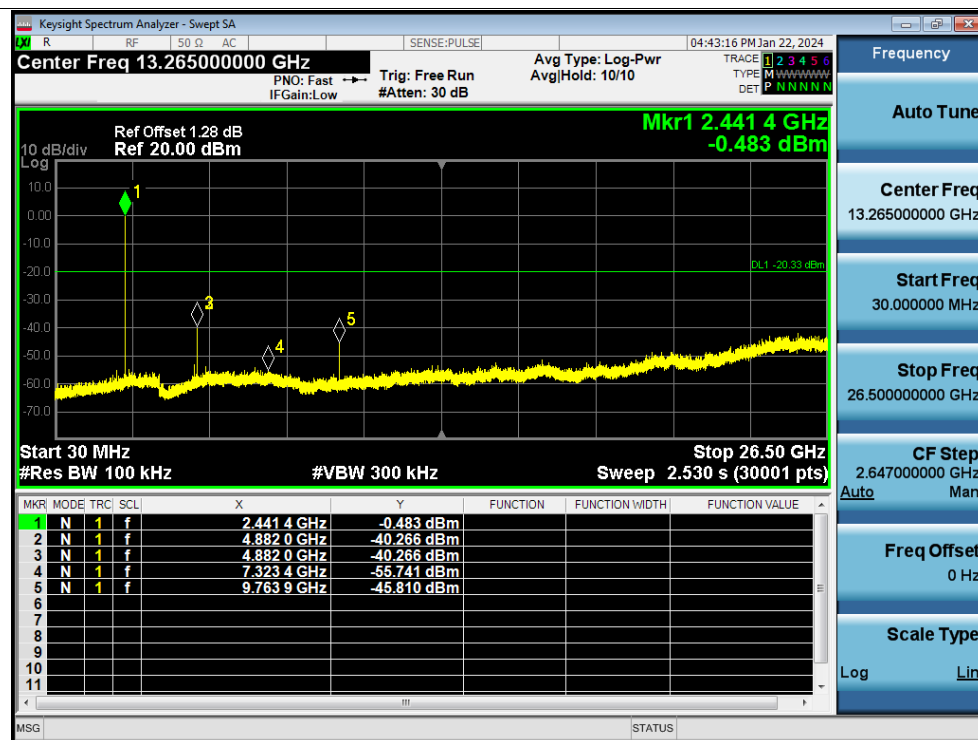
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



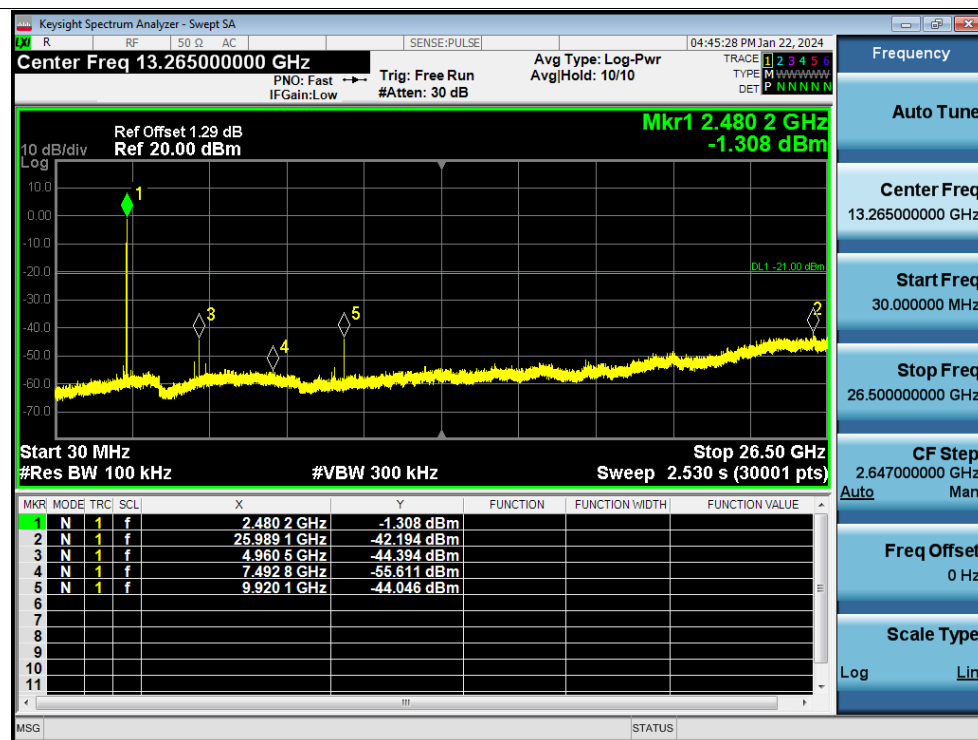
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



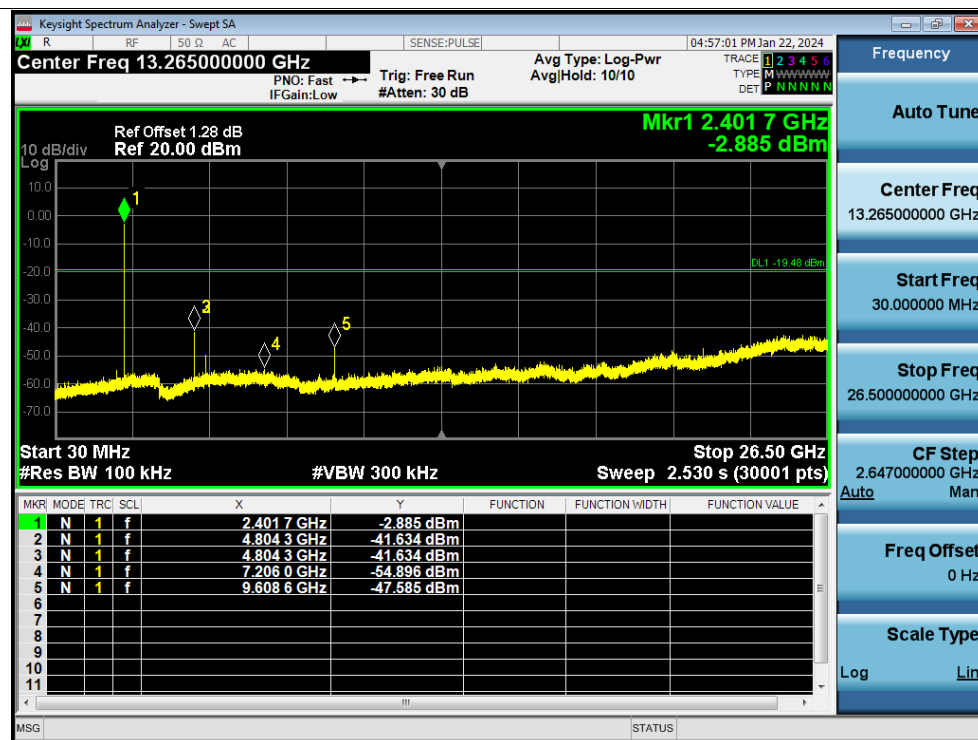
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



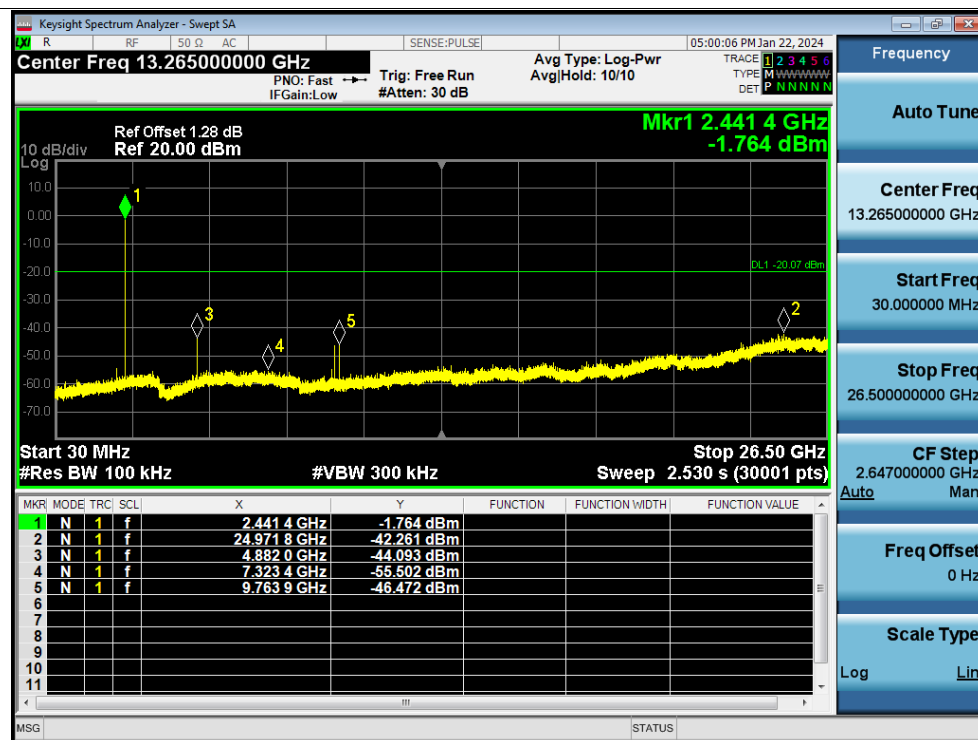
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



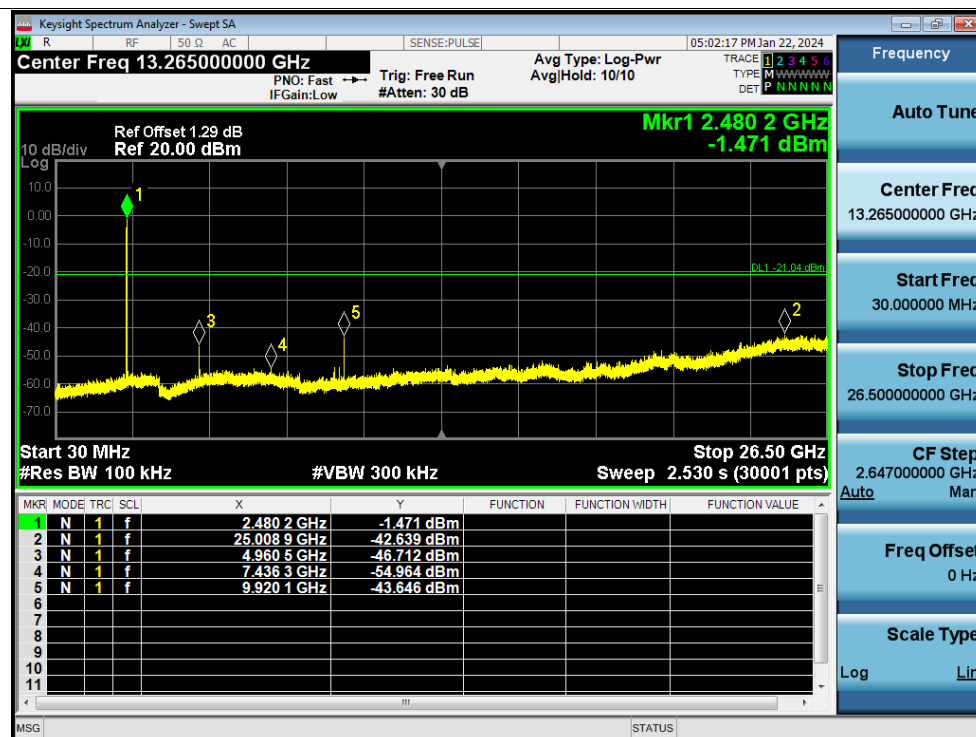
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



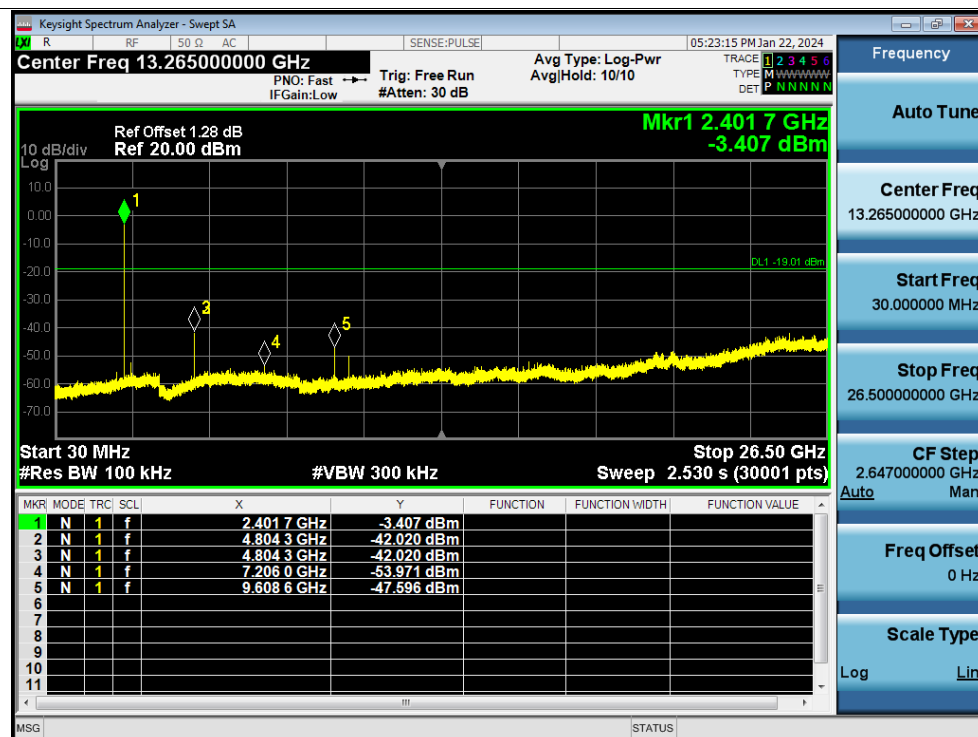
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



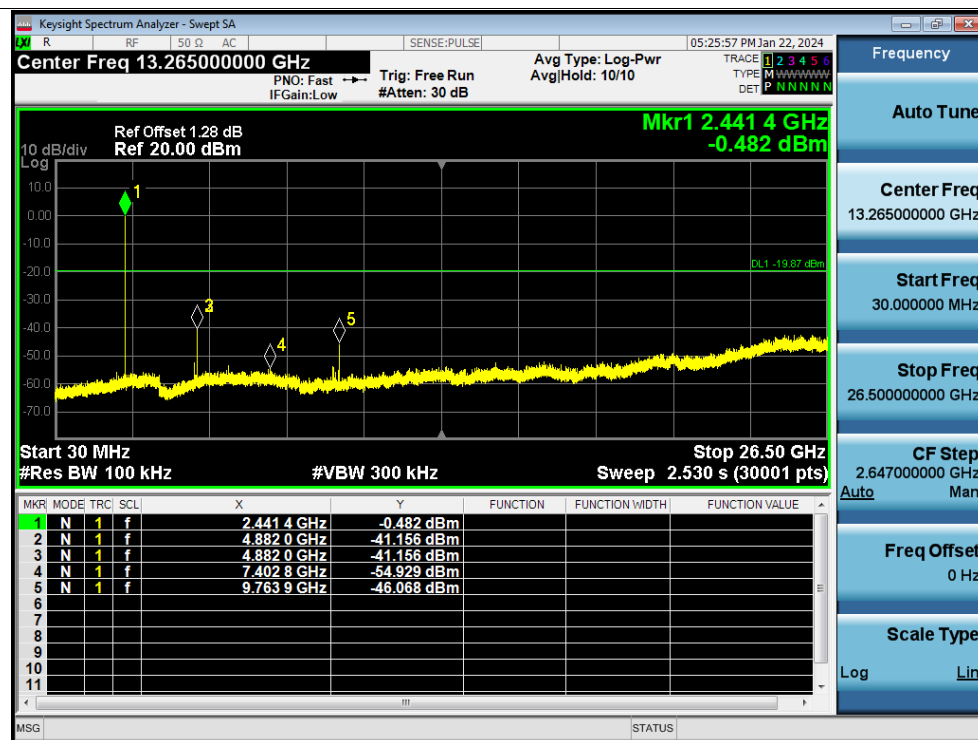
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

