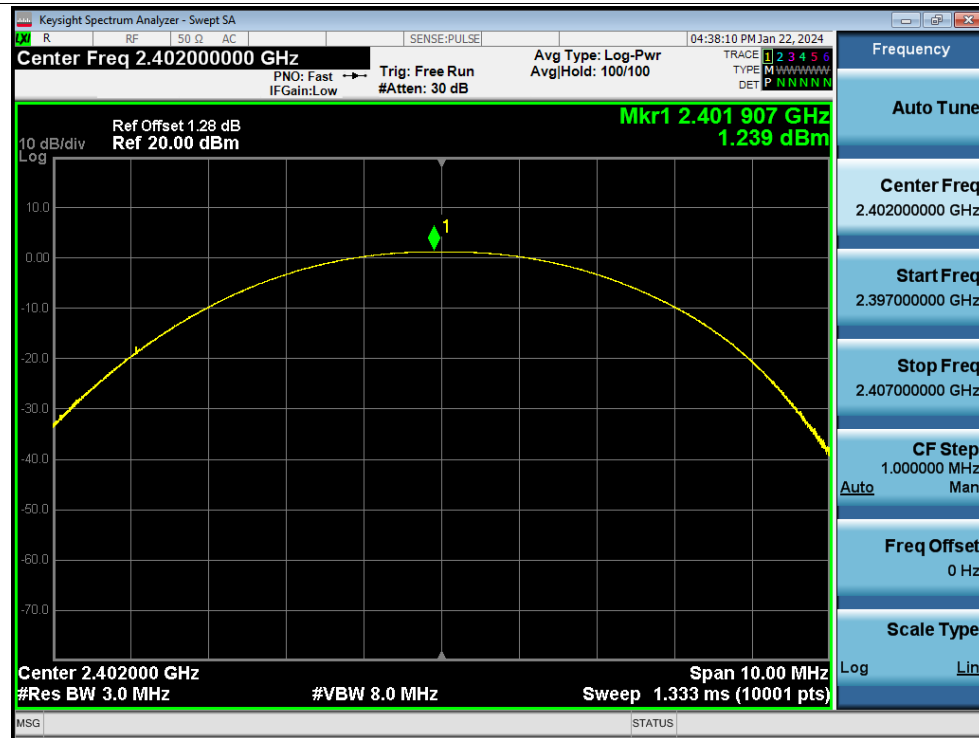


Maximum Conducted Output Power

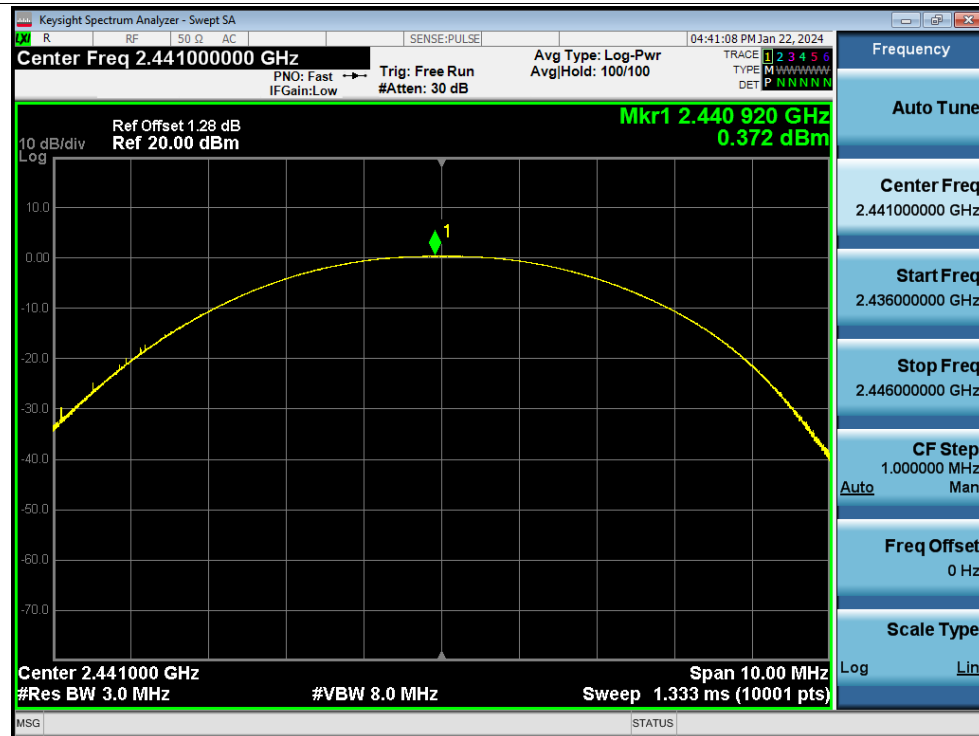
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	1.24	0	1.24	21	Pass
NVNT	1-DH5	2441	Ant1	0.37	0	0.37	21	Pass
NVNT	1-DH5	2480	Ant1	-0.56	0	-0.56	21	Pass
NVNT	2-DH5	2402	Ant1	3.49	0	3.49	21	Pass
NVNT	2-DH5	2441	Ant1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

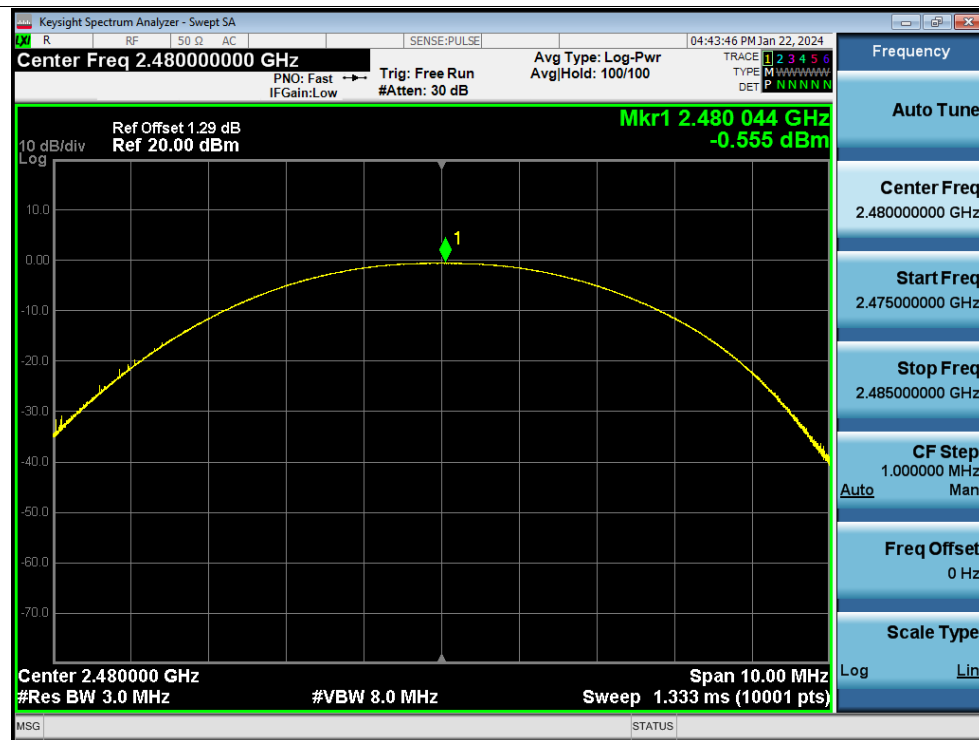
Power NVNT 1-DH5 2402MHz Ant1



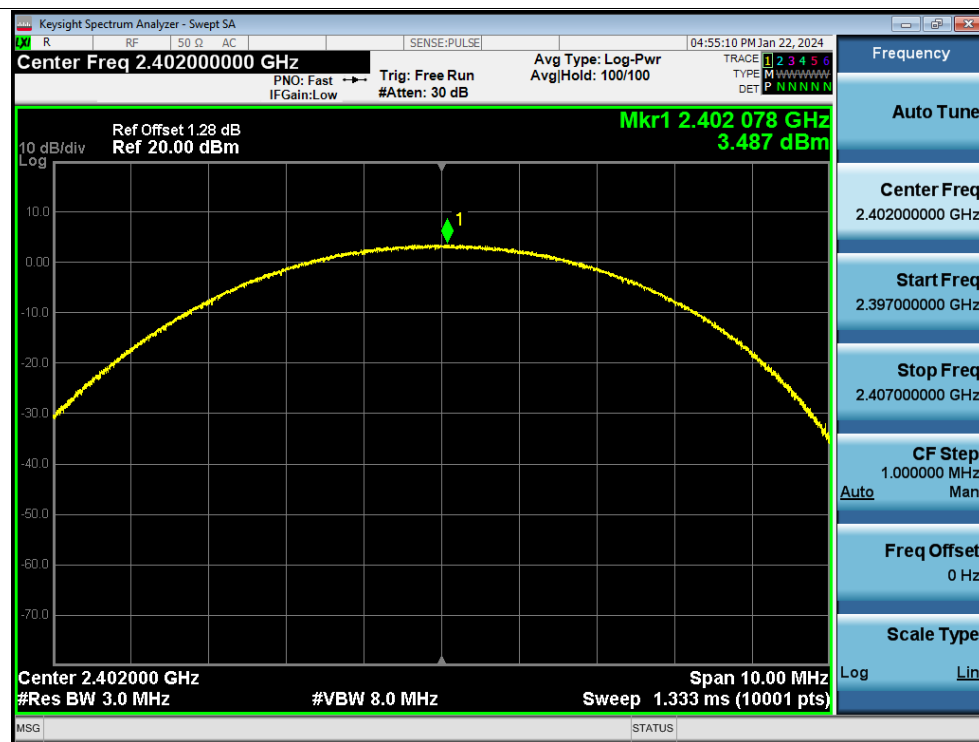
Power NVNT 1-DH5 2441MHz Ant1



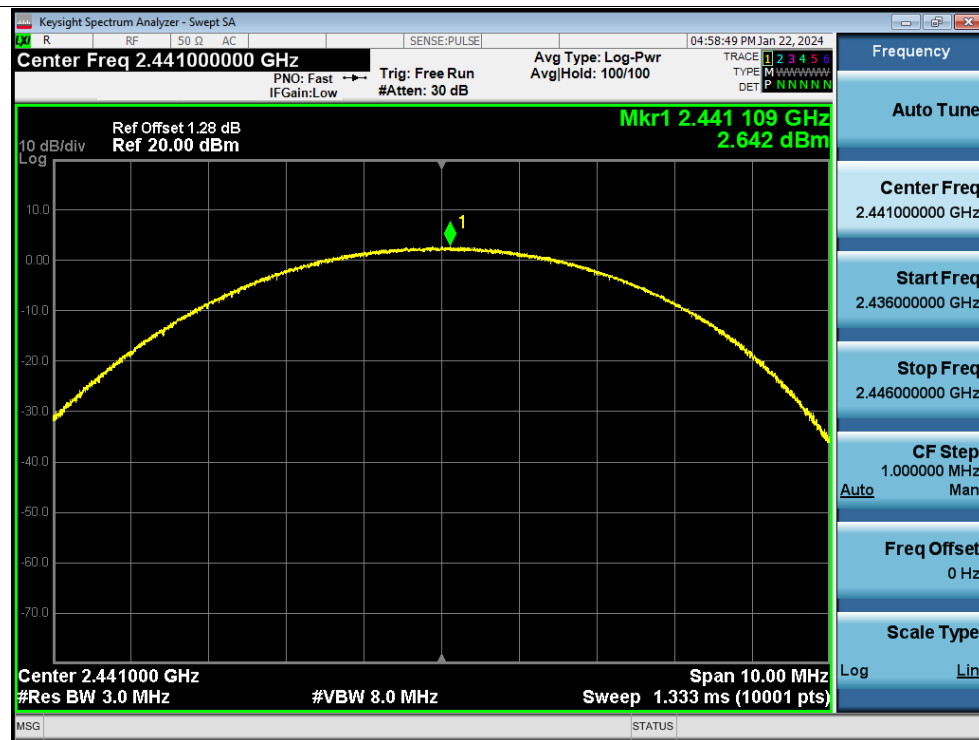
Power NVNT 1-DH5 2480MHz Ant1



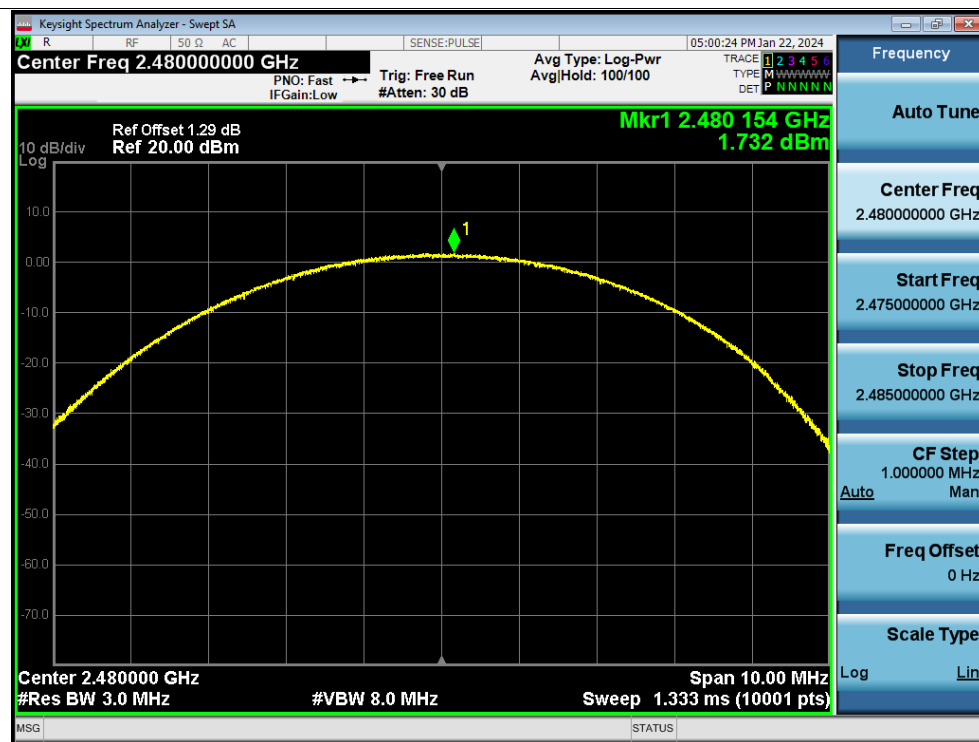
Power NVNT 2-DH5 2402MHz Ant1



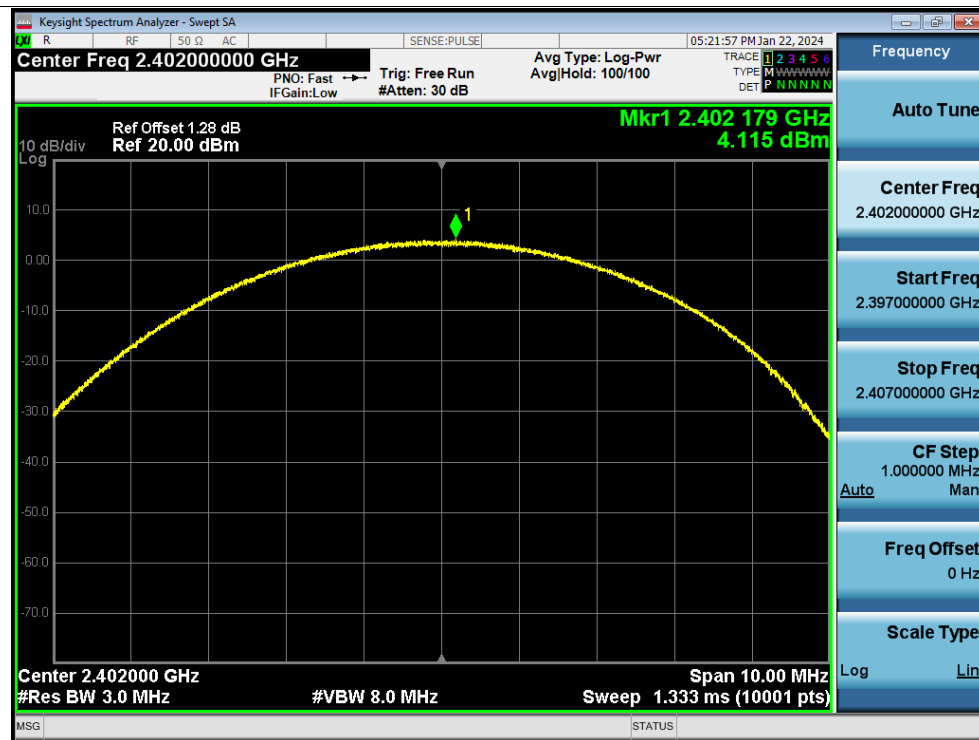
Power NVNT 2-DH5 2441MHz Ant1



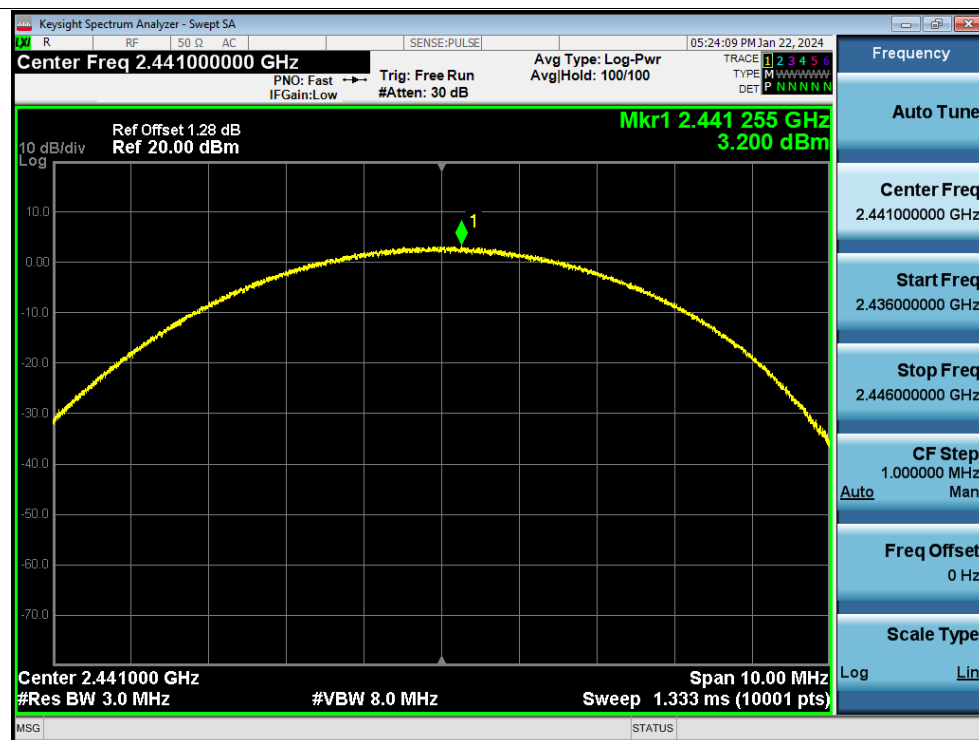
Power NVNT 2-DH5 2480MHz Ant1

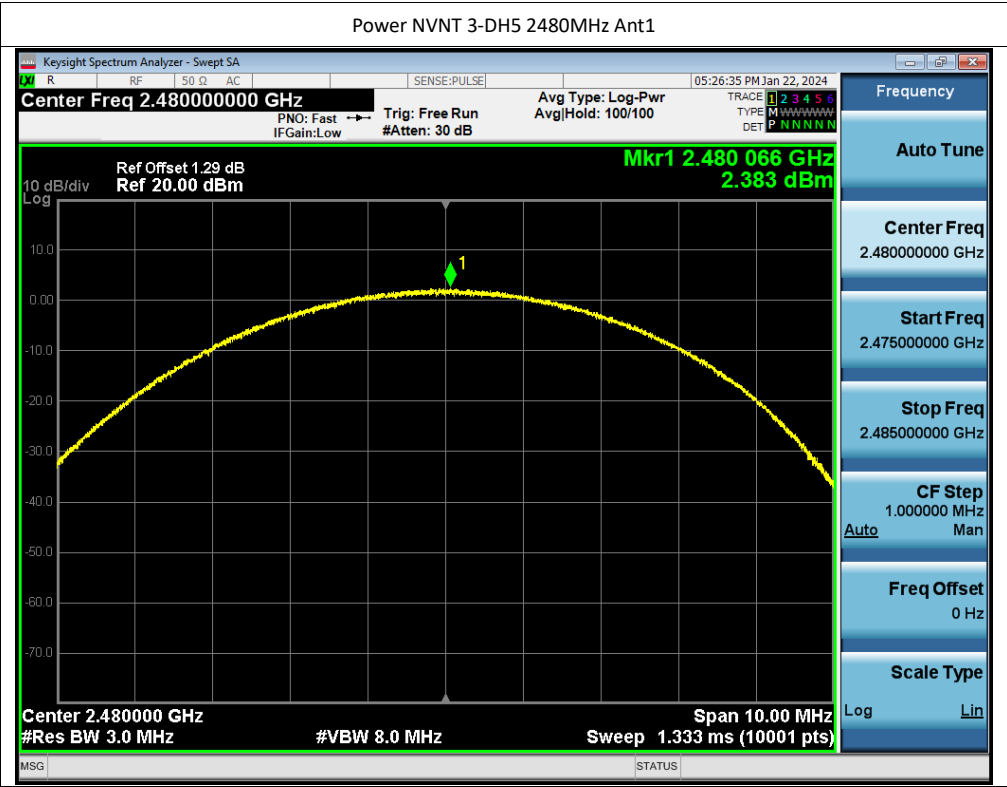


Power NVNT 3-DH5 2402MHz Ant1



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



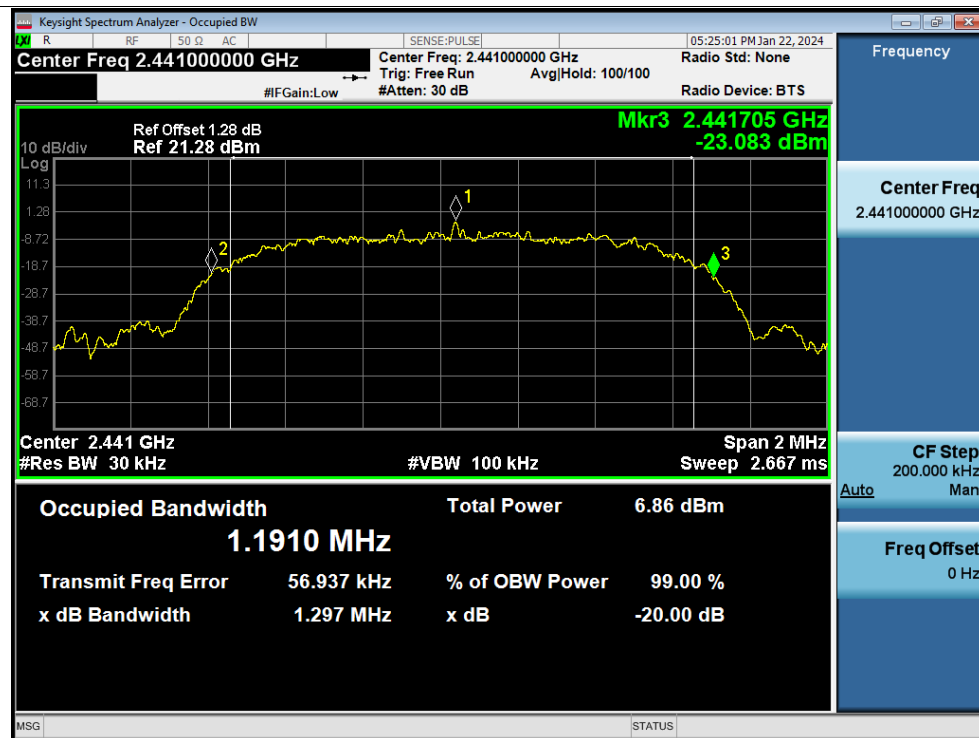
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1

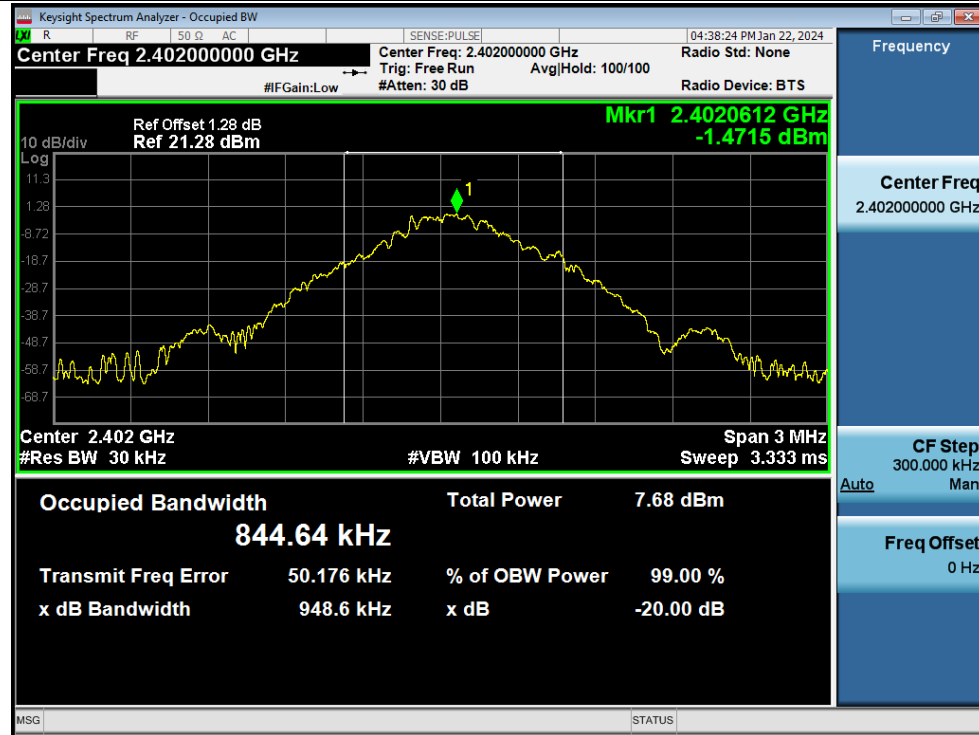


Occupied Channel Bandwidth

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



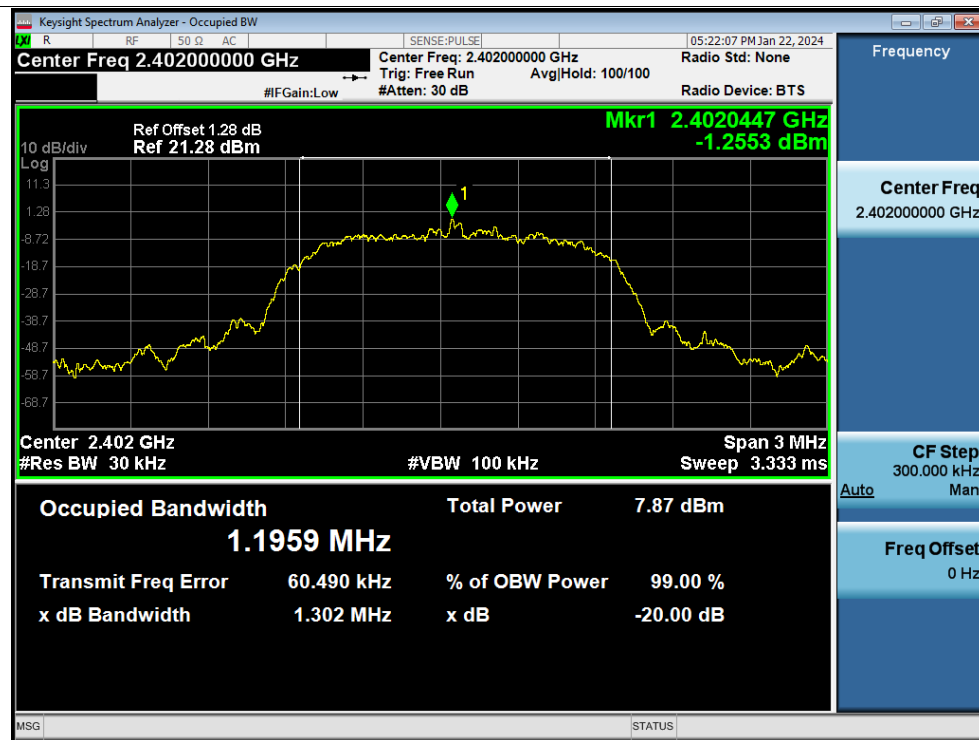
OBW NVNT 2-DH5 2441MHz Ant1



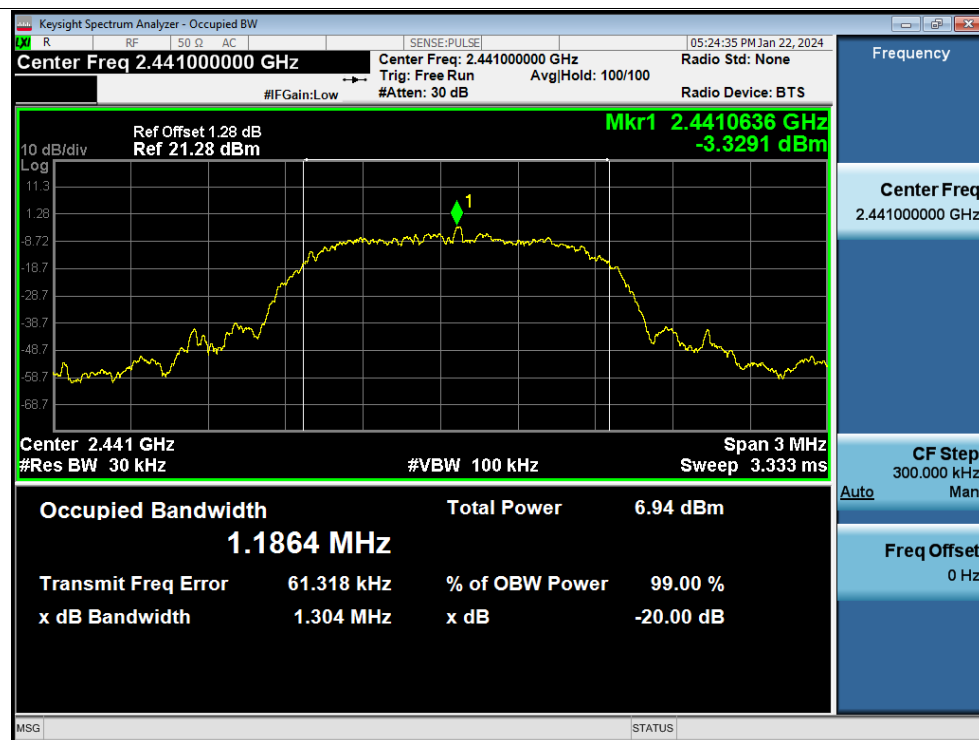
OBW NVNT 2-DH5 2480MHz Ant1



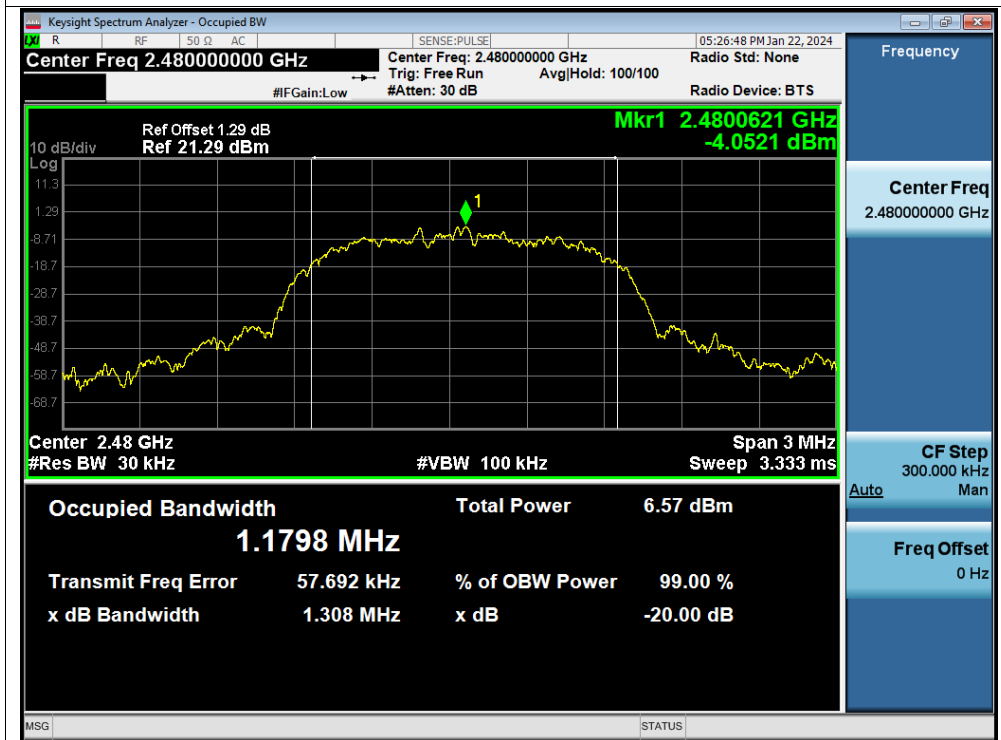
OBW NVNT 3-DH5 2402MHz Ant1



OBW NVNT 3-DH5 2441MHz Ant1



OBW NVNT 3-DH5 2480MHz Ant1

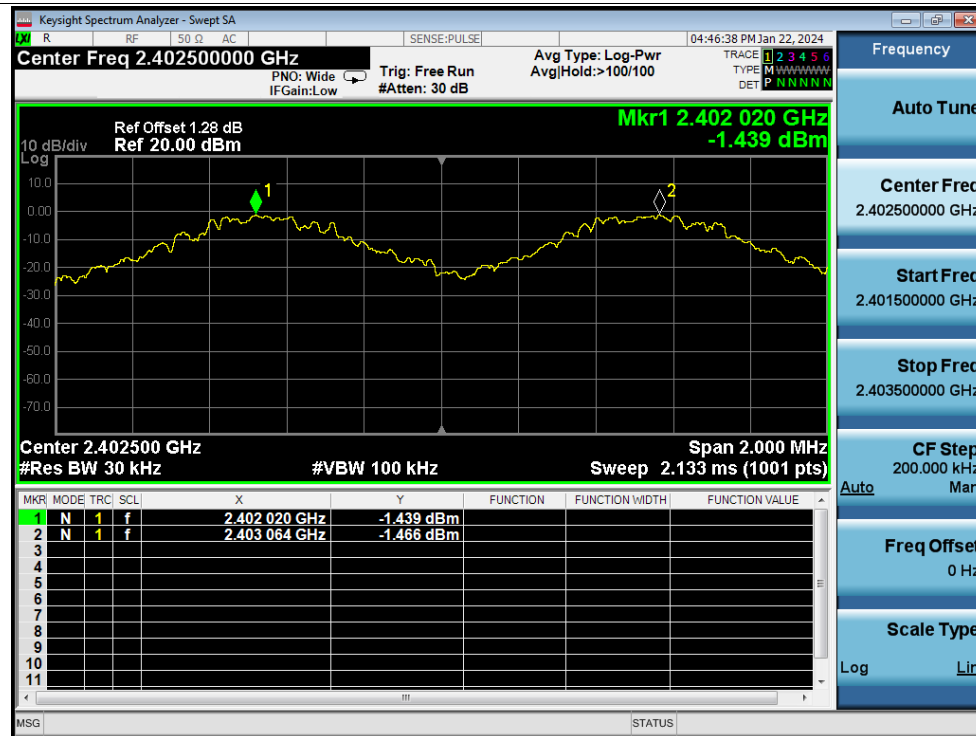


Carrier Frequencies Separation

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

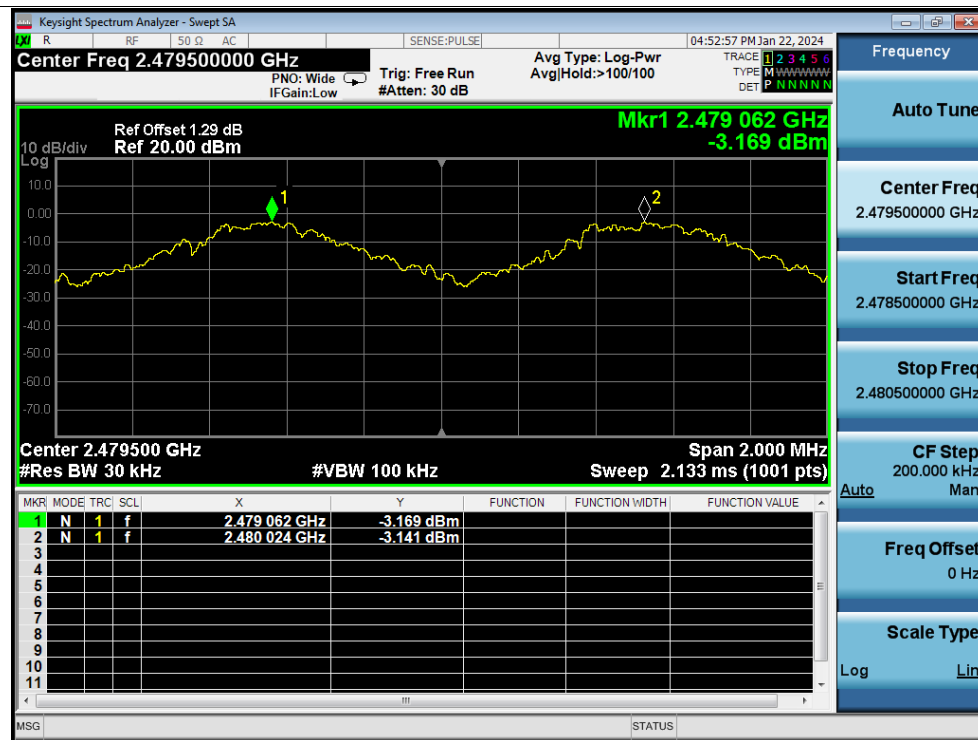
CFS NVNT 1-DH5 2402MHz Ant1



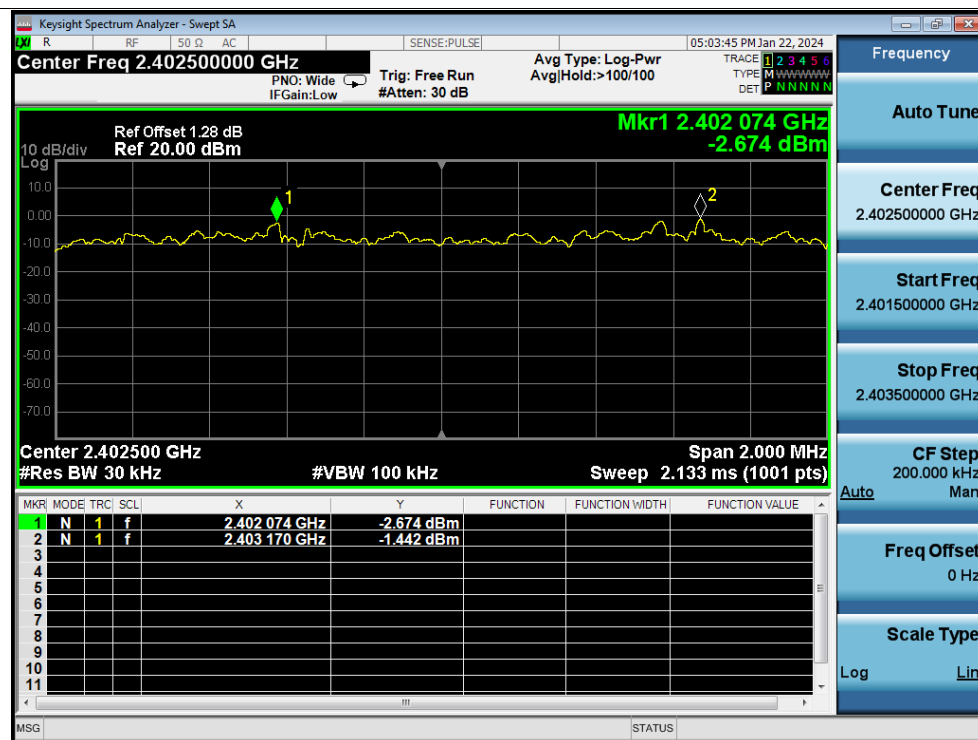
CFS NVNT 1-DH5 2441MHz Ant1



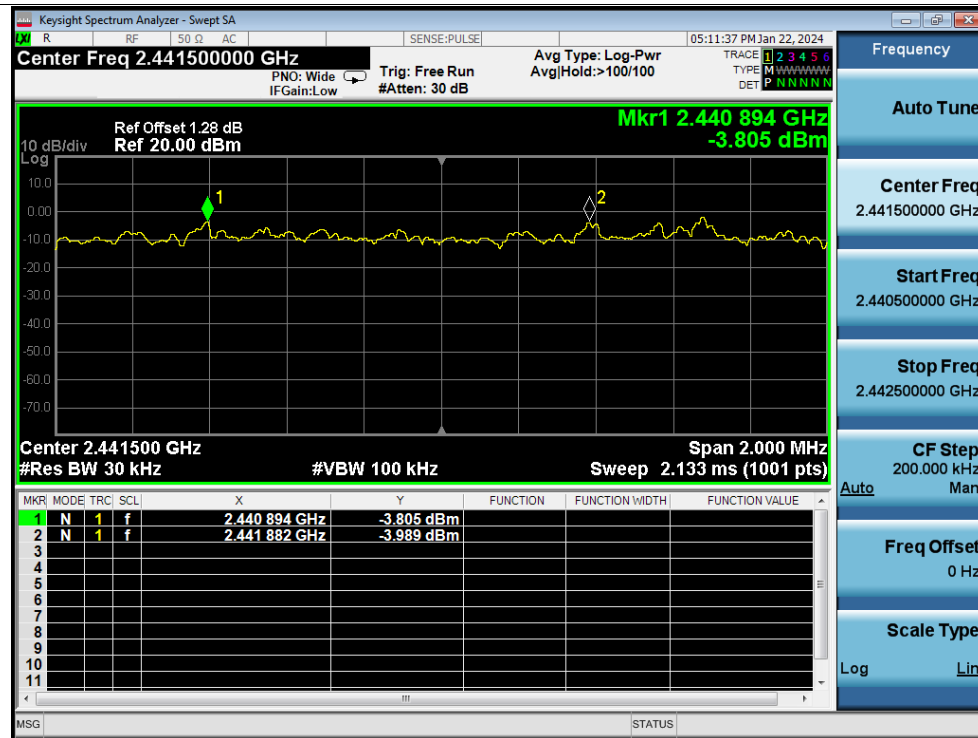
CFS NVNT 1-DH5 2480MHz Ant1



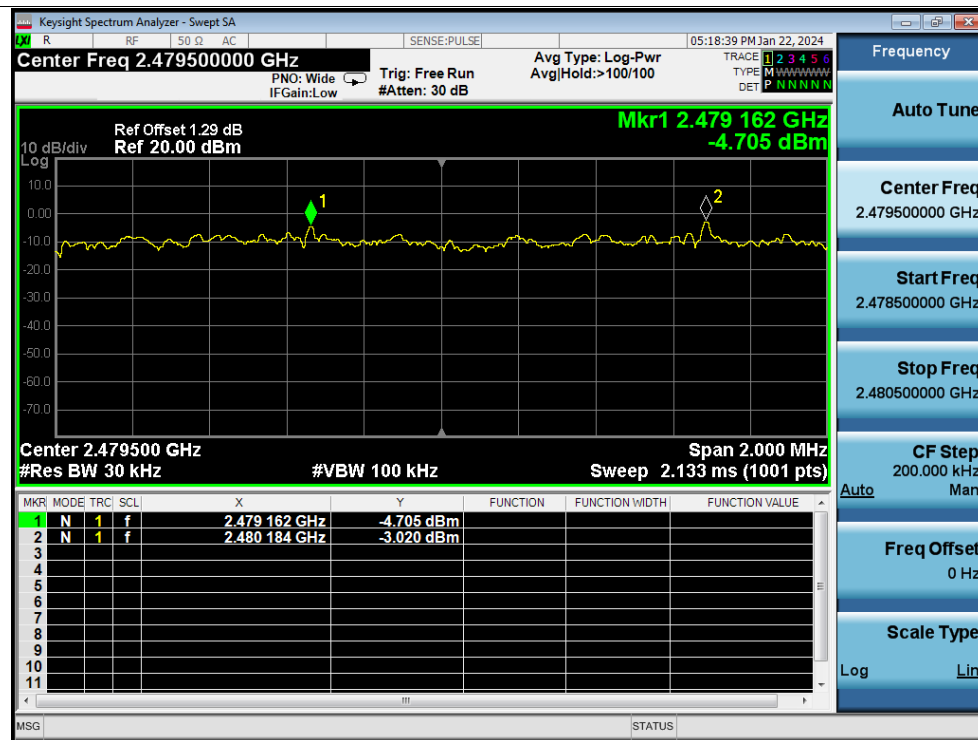
CFS NVNT 2-DH5 2402MHz Ant1



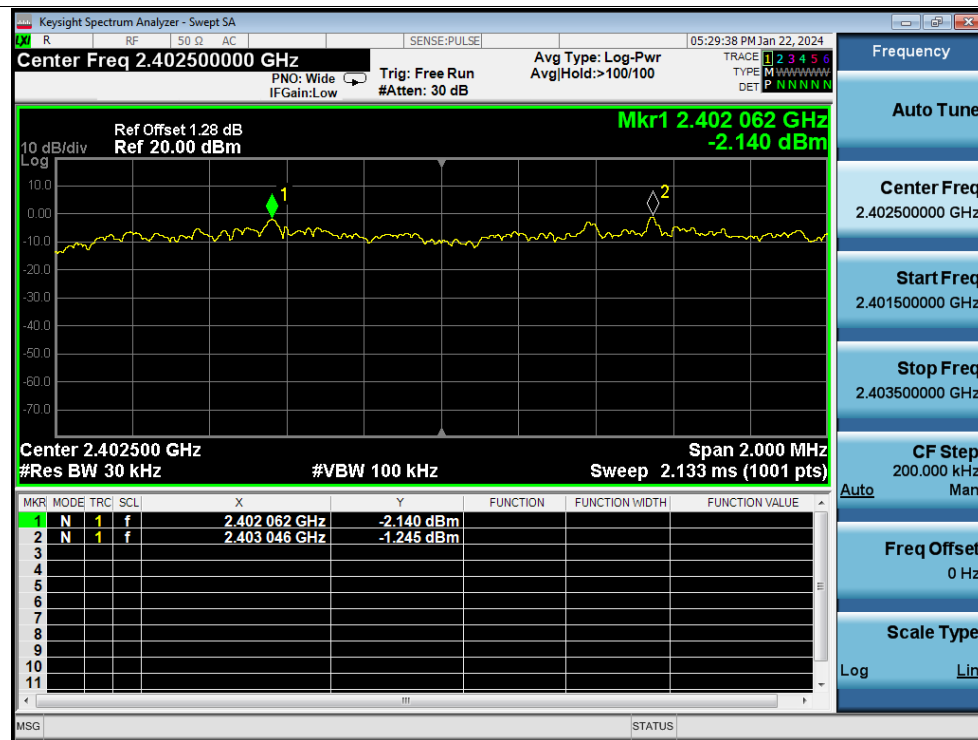
CFS NVNT 2-DH5 2441MHz Ant1



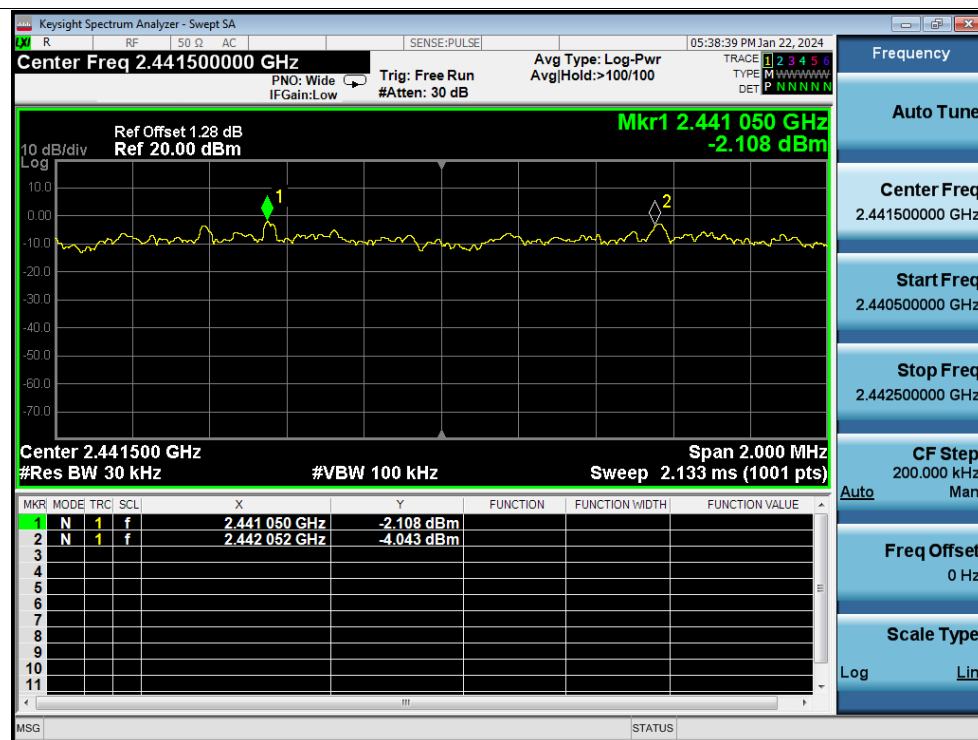
CFS NVNT 2-DH5 2480MHz Ant1



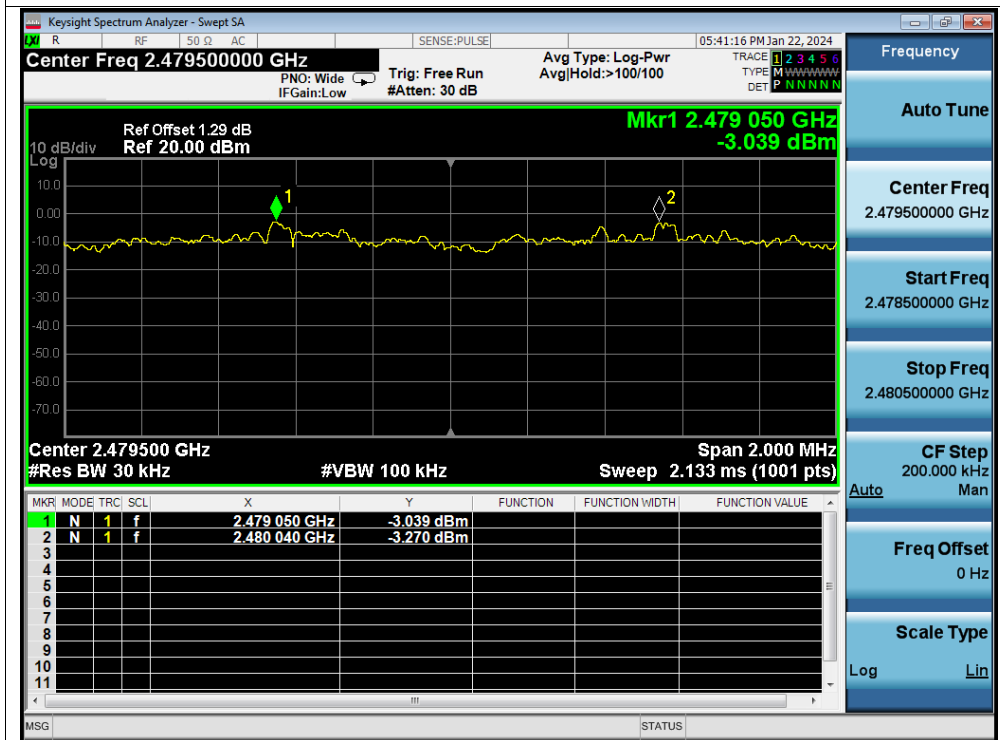
CFS NVNT 3-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2441MHz Ant1



CFS NVNT 3-DH5 2480MHz Ant1

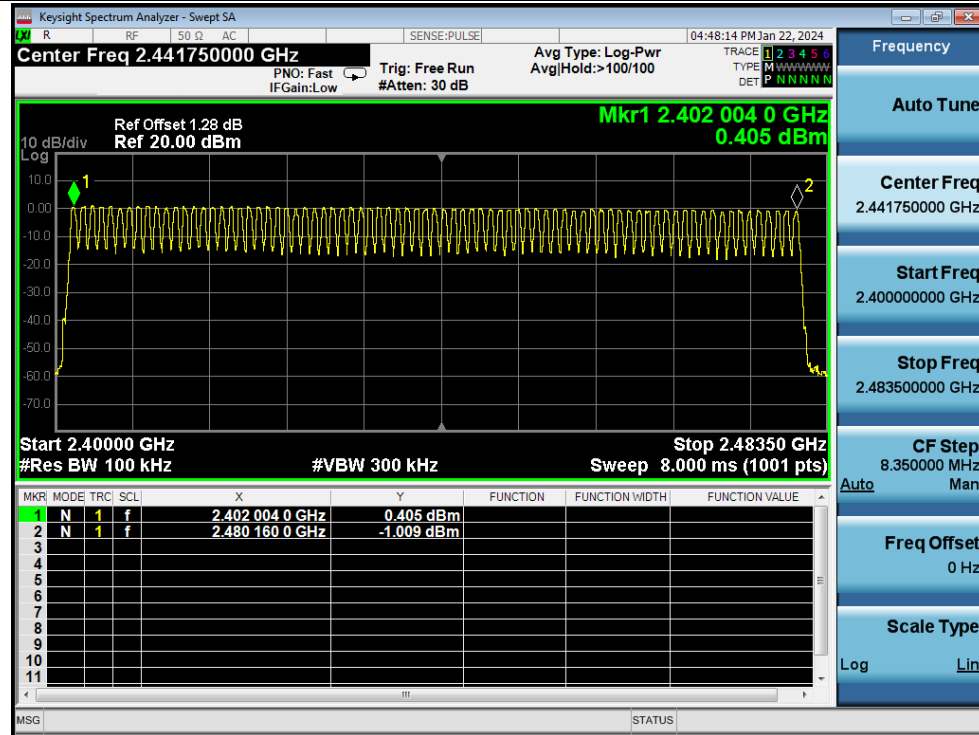


Number of Hopping Channel

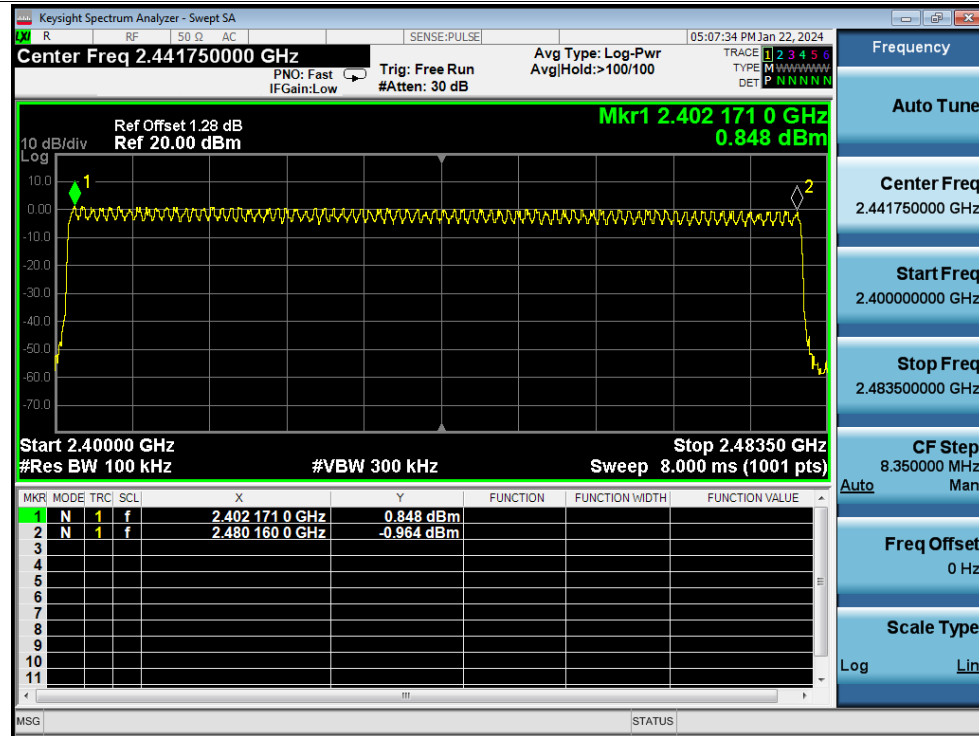
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

Test Graphs

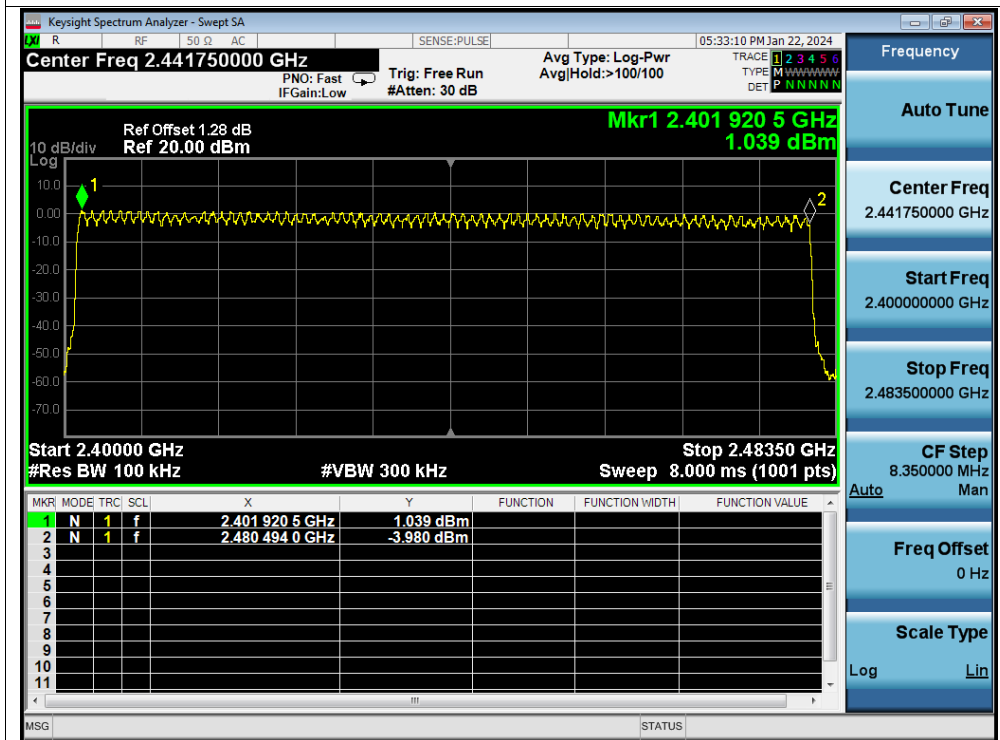
Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



Hopping No. NVNT 3-DH5 2402MHz Ant1

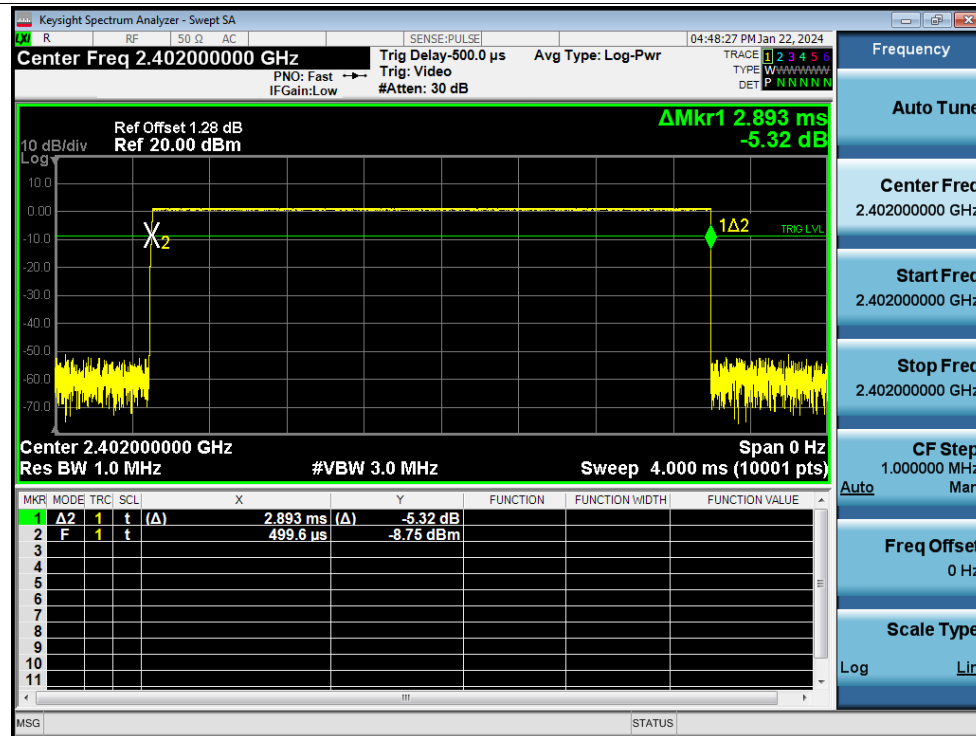


Dwell Time

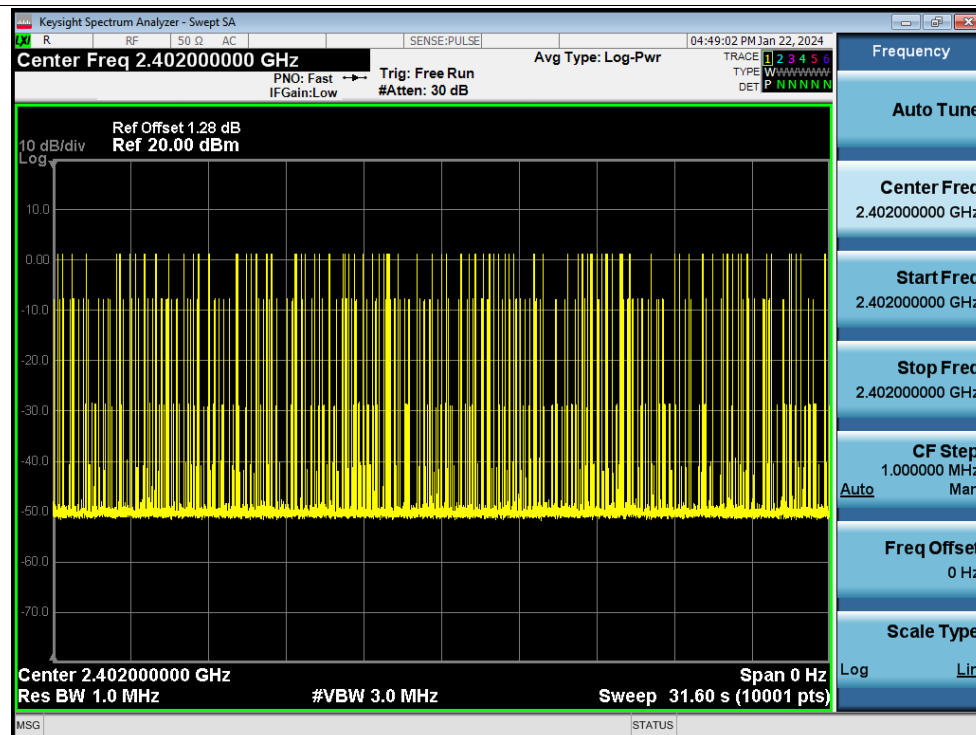
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.893	283.514	98	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.89	262.99	91	31600	400	Pass
NVNT	1-DH5	2480	Ant1	2.893	300.872	104	31600	400	Pass
NVNT	2-DH5	2402	Ant1	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

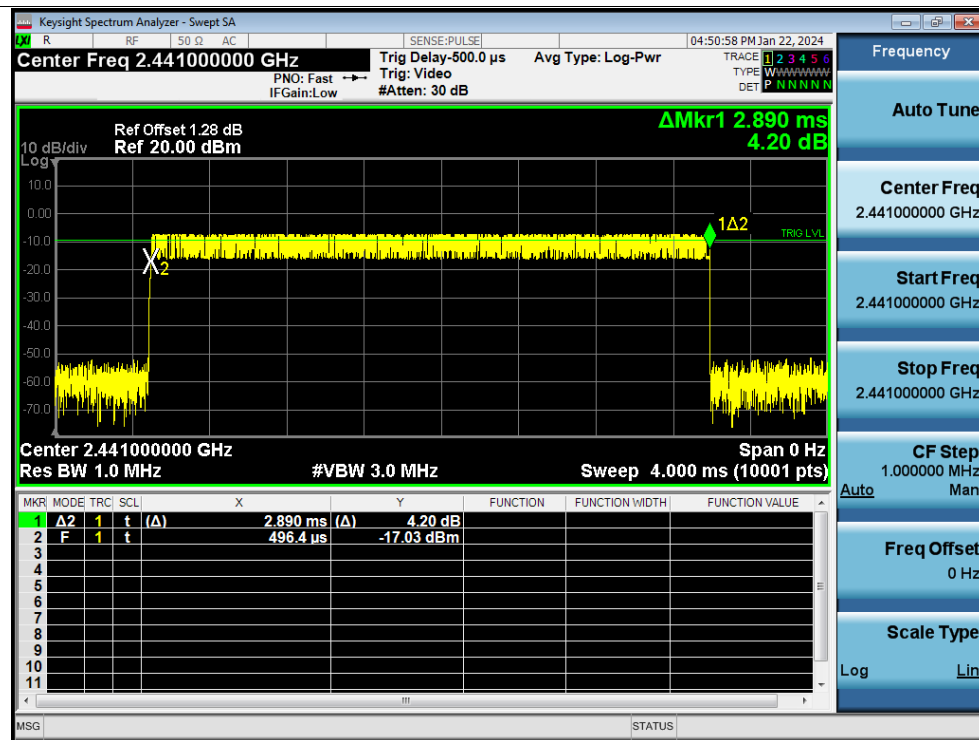
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



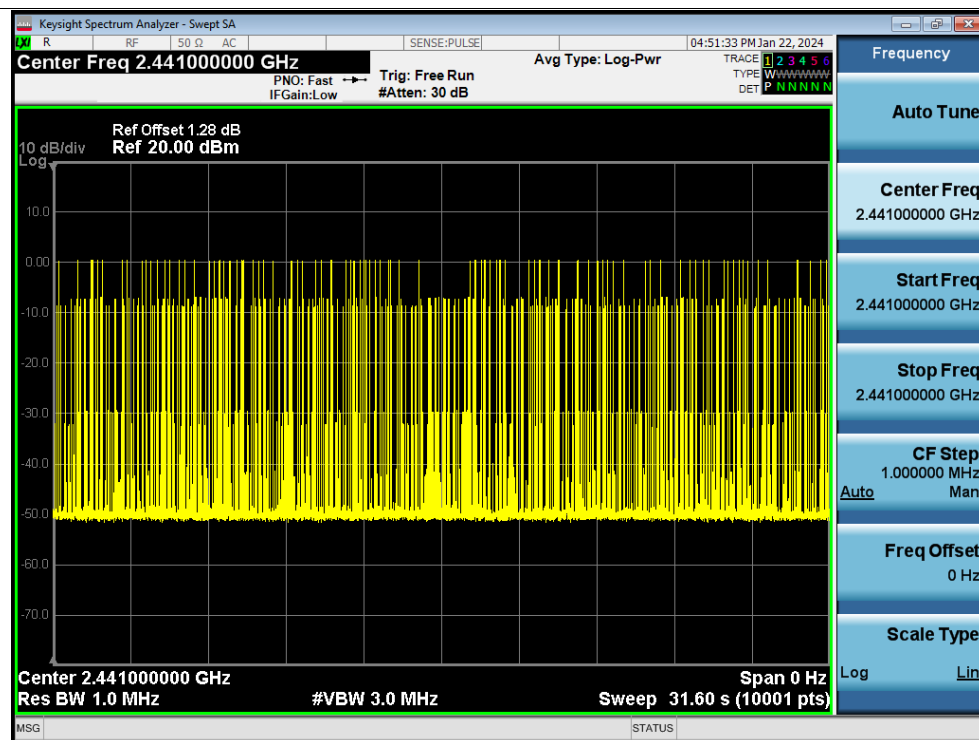
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



Dwell NVNT 1-DH5 2441MHz Ant1 One Burst



Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated



Dwell NVNT 1-DHS 2480MHz Ant1 One Burst

Keysight Spectrum Analyzer - Swept SA

RF 50.0 AC SENSE: PULSE 04:53:12 PM Jan 22, 2024

Center Freq 2.480000000 GHz Trig Delay 500.0 μ s Avg Type: Log-Pwr TRACE 1 2 3 4 5 6
 PNO: Fast Trig: Video TYPE: WWWW
 IF Gain: Low #Atten: 30 dB P: NNNNN

Ref Offset 1.29 dB Δ Mkr1 2.893 ms
 Ref 20.00 dBm -6.29 dB

10 dB/div Log

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	Δ 2	1	t	(Δ)	2.893 ms (Δ)	-6.29 dBm		
2	F	1	t		499.6 μ s	-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

Auto

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

DET P N N N N N

Ref Offset 1.29 dB

Ref 20.00 dBm

10 dB/div

Log

Center 2.480000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Span 0 Hz

Sweep 31.60 s (10001 pts)

Auto Tune

Center Freq 2.480000000 GHz

Start Freq 2.480000000 GHz

Stop Freq 2.480000000 GHz

CF Step 1.000000 MHz

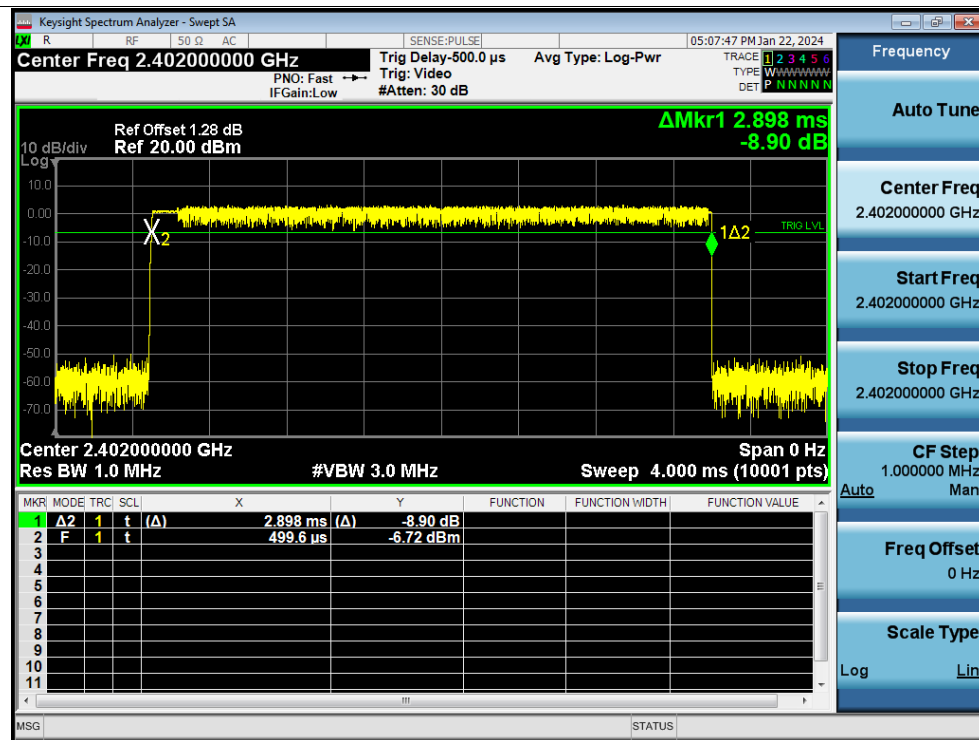
Auto Man

Freq Offset 0 Hz

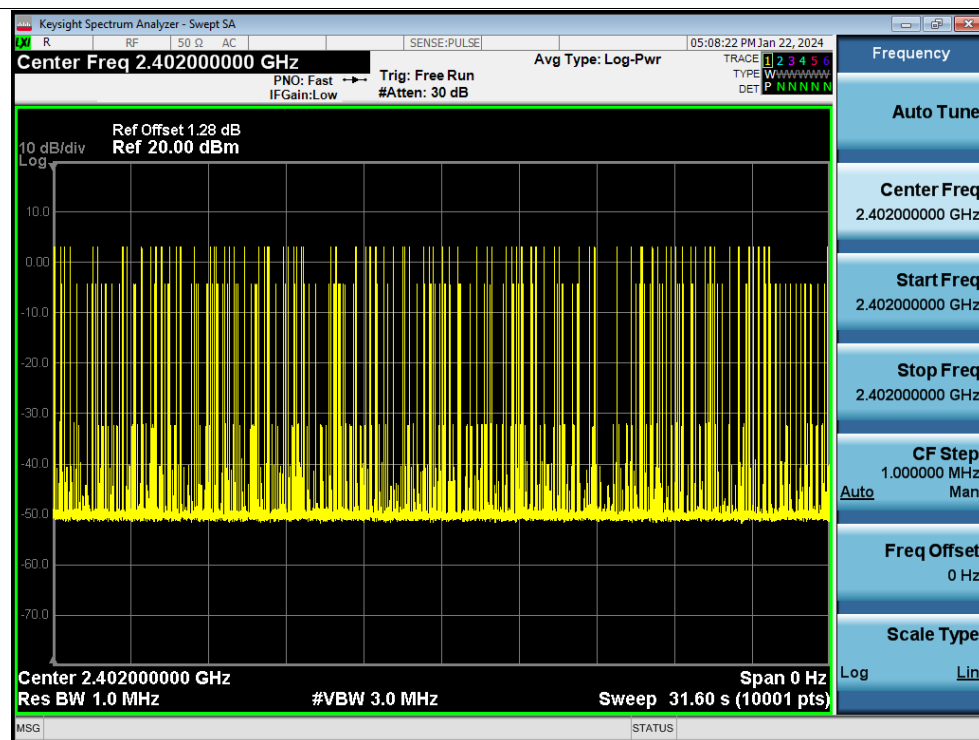
Scale Type Log Lin

MSG STATUS

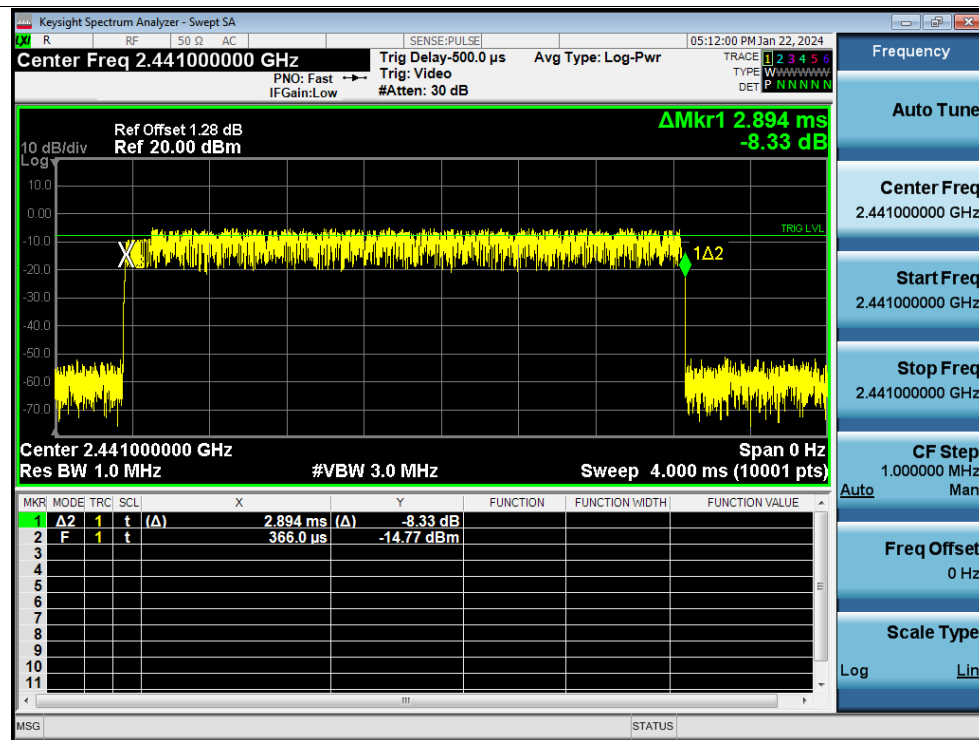
Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



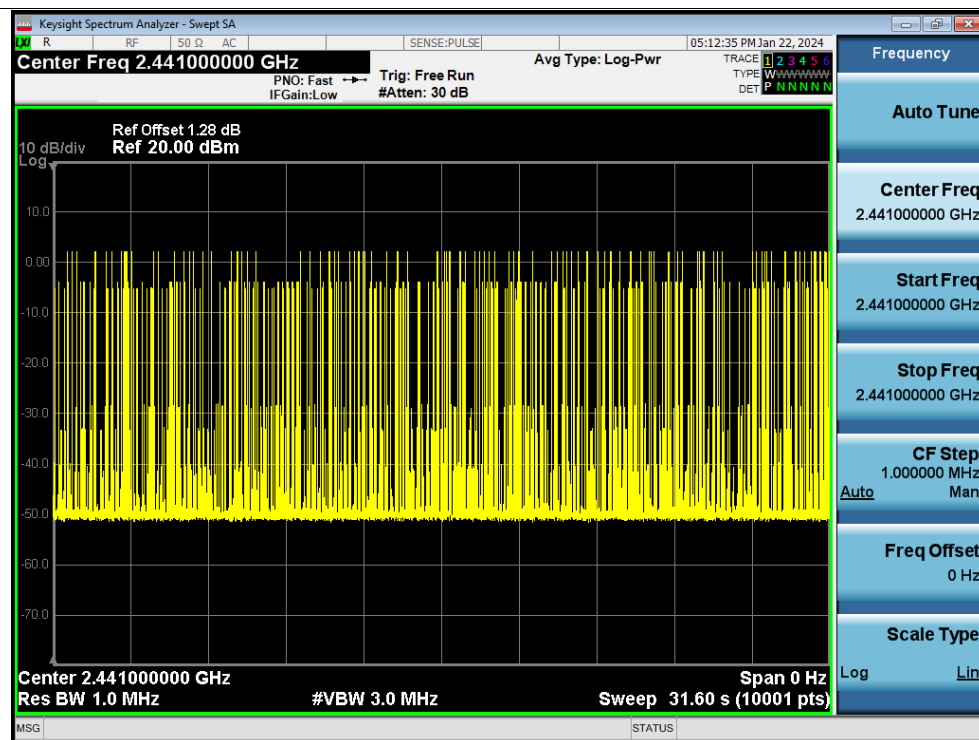
Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



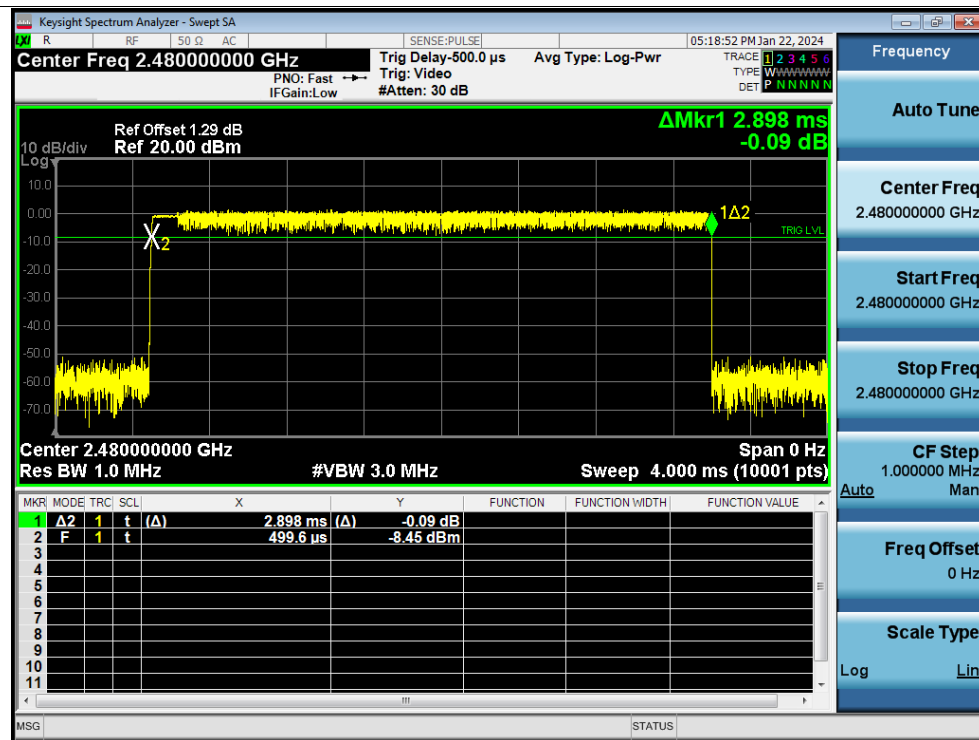
Dwell NVNT 2-DH5 2441MHz Ant1 One Burst



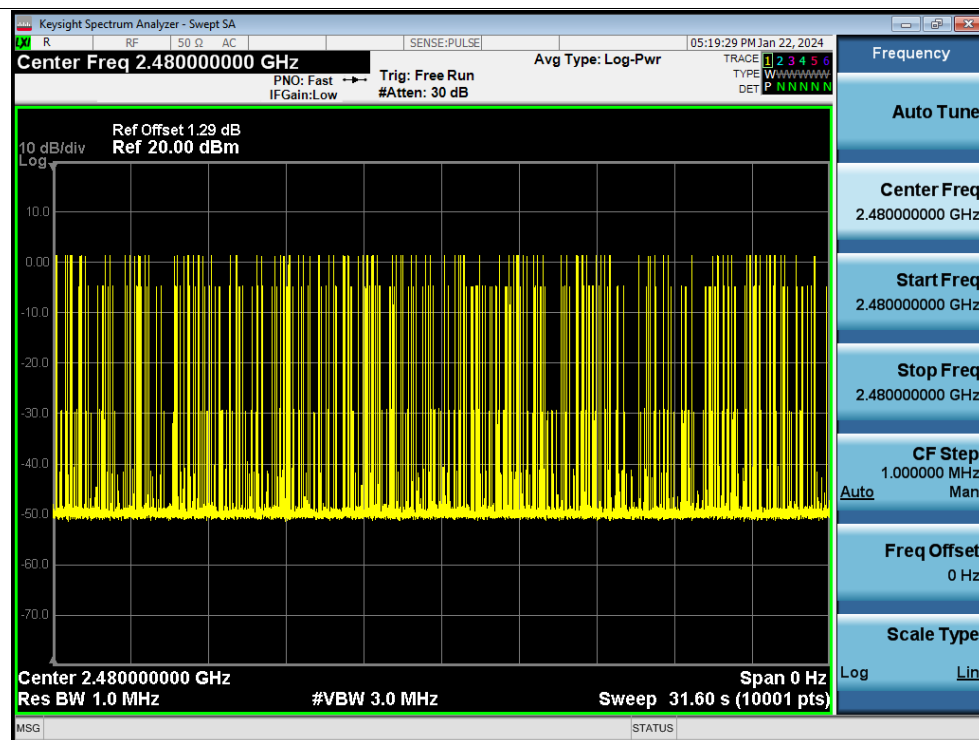
Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated



Dwell NVNT 2-DH5 2480MHz Ant1 One Burst



Dwell NVNT 2-DH5 2480MHz Ant1 Accumulated



Dwell NVNT 3-DHS 442MHz Ant1 One Burst

Keysight Spectrum Analyzer - Swept SA

RF 50.0 AC SENSE:PULSE 05:33:36 PM Jan 22, 2024

Center Freq 2.402000000 GHz Trig Delay: 500.0 μ s Avg Type: Log-Pwr

PN0: Fast IFGain: Low Trig: Video #Atten: 30 dB

TRACE 1 2 3 4 5 6 TYPE WWWWWWWW DET P NNNNN

Ref Offset 1.28 dB Δ Mkr1 2.900 ms
Ref 20.00 dBm 3.24 dB

10 dB/div Log

Center 2.402000000 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	Δ 2	1	t	(Δ)	2.900 ms	(Δ)	3.24 dB	
2	F	1	t		499.6 μ s	-6.04 dBm		
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq 2.402000000 GHz

Start Freq 2.402000000 GHz

Stop Freq 2.402000000 GHz

CF Step 1.000000 MHz Man

Auto

Freq Offset 0 Hz

Scale Type Log Lin

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.402000000 GHz

Ref Offset 1.28 dB
Ref 20.00 dBm

10 dB/div
Log

Center 2.402000000 GHz
Res BW 1.0 MHz
#VBW 3.0 MHz

Span 0 Hz
Sweep 31.60 s (10001 pts)

Auto Tune

Center Freq
2.402000000 GHz

Start Freq
2.402000000 GHz

Stop Freq
2.402000000 GHz

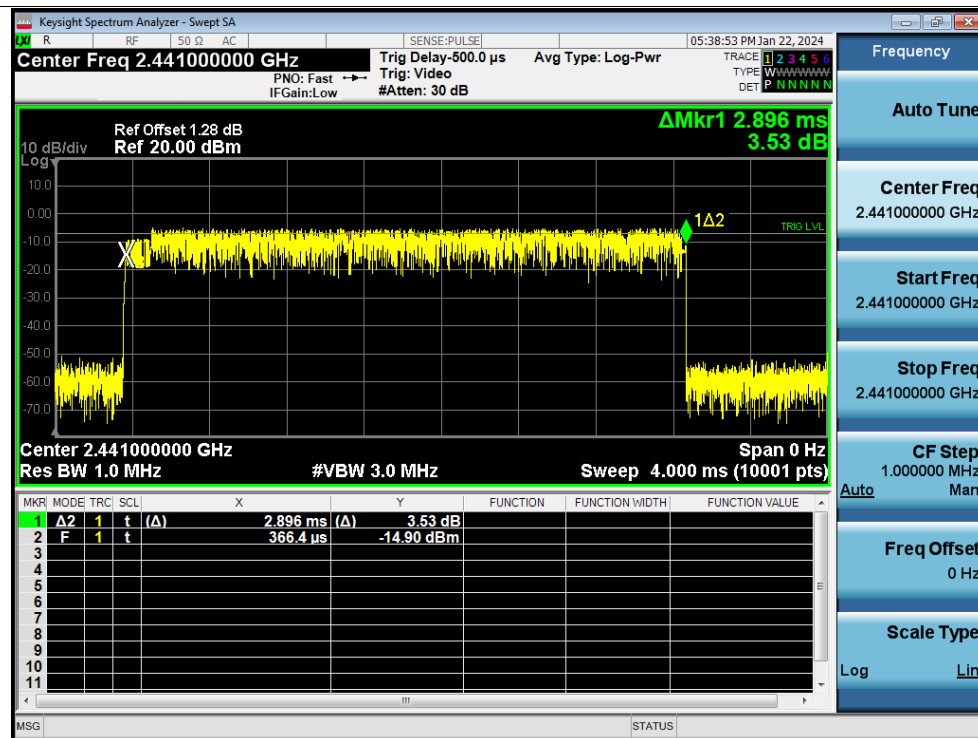
CF Step
1.000000 MHz
Man

Freq Offset
0 Hz

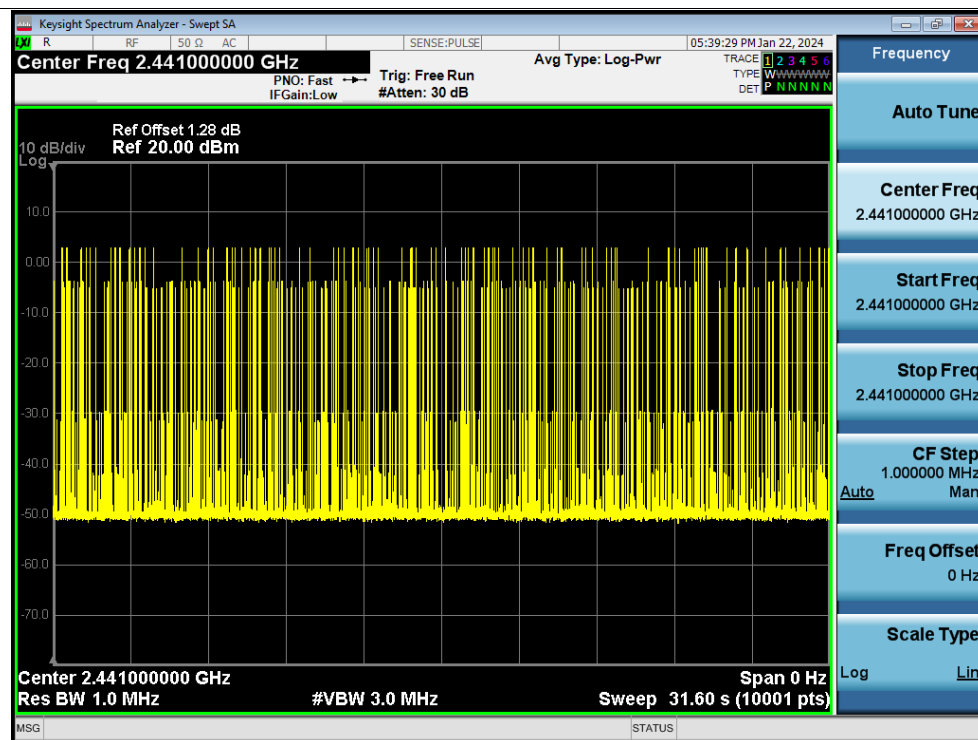
Scale Type
Log

MSG STATUS

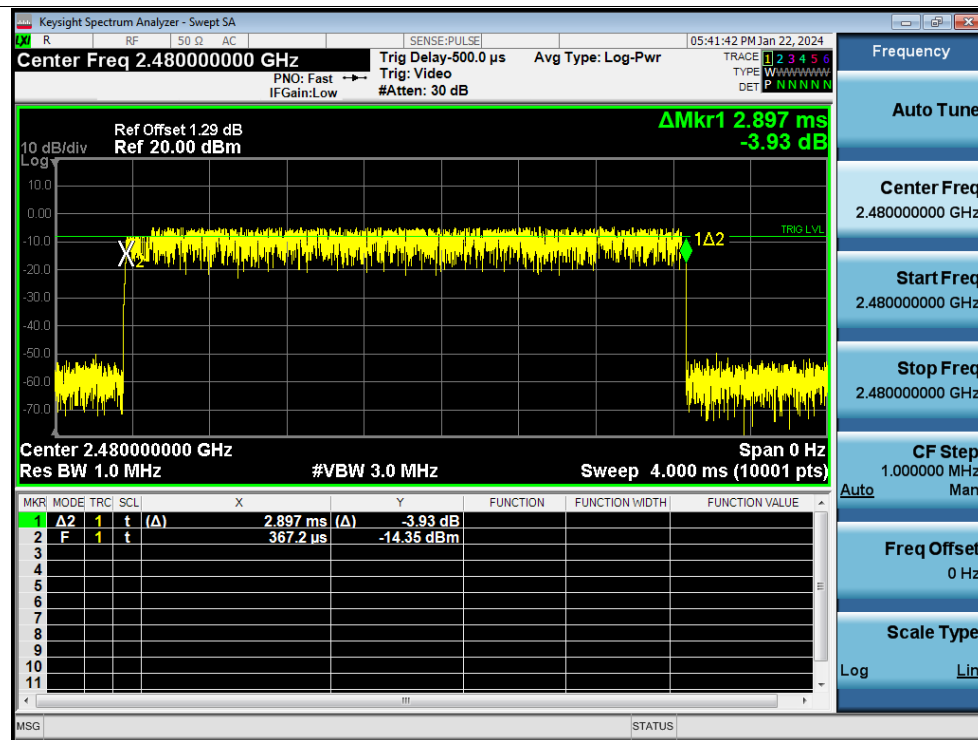
Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



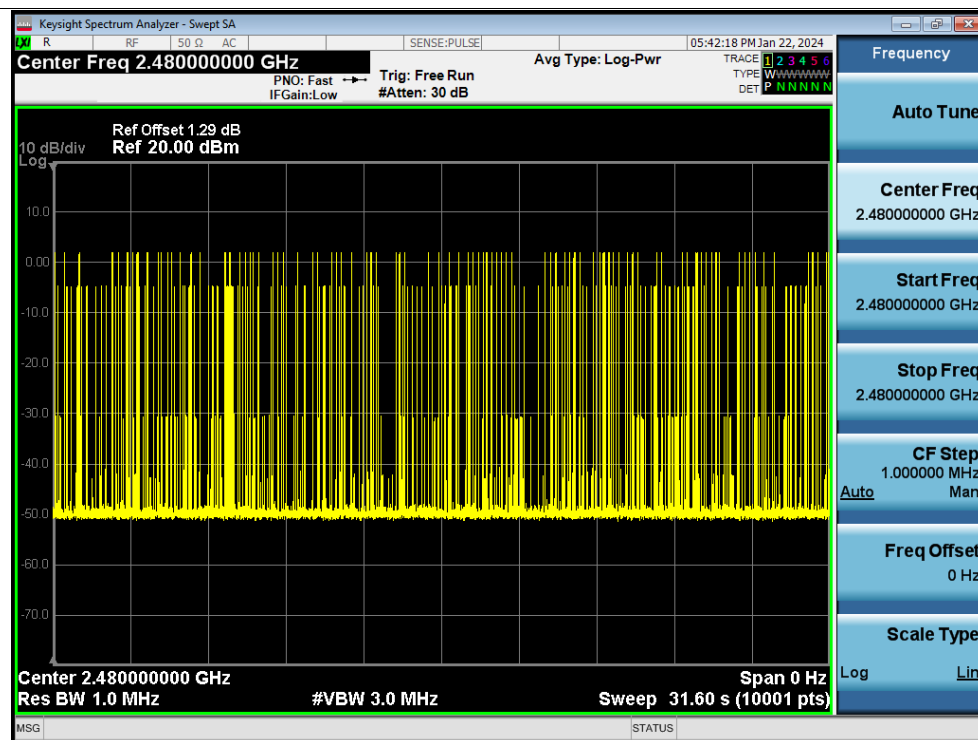
Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2480MHz Ant1 One Burst



Dwell NVNT 3-DH5 2480MHz Ant1 Accumulated

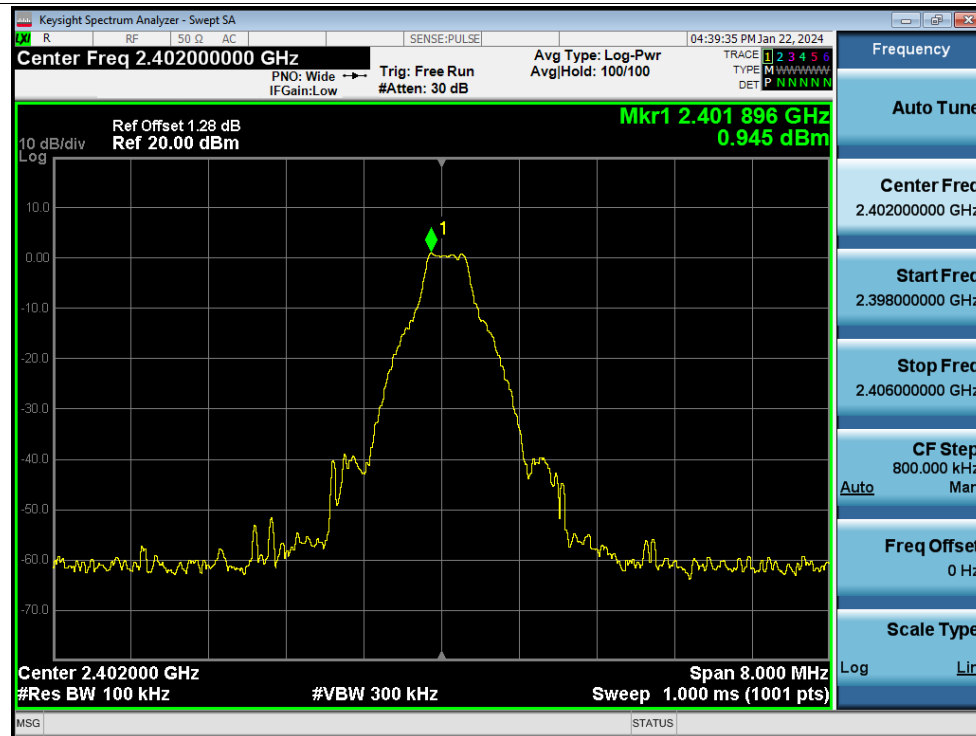


Band Edge

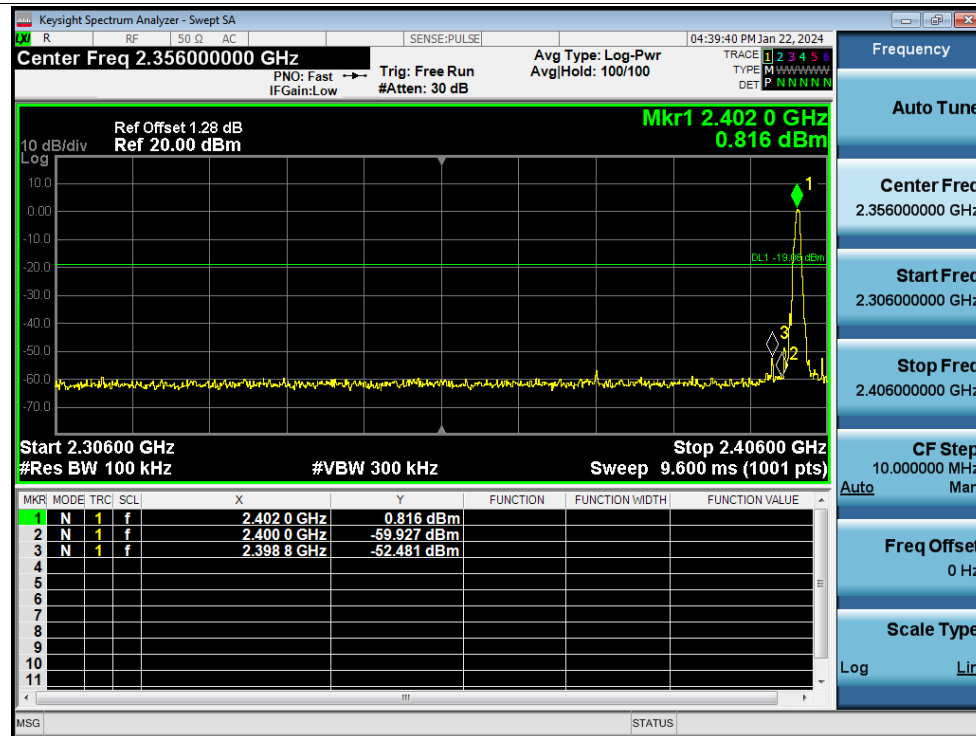
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-53.43	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.48	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-53.97	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-57.02	-20	Pass
NVNT	3-DH5	2402	Ant1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

Test Graphs

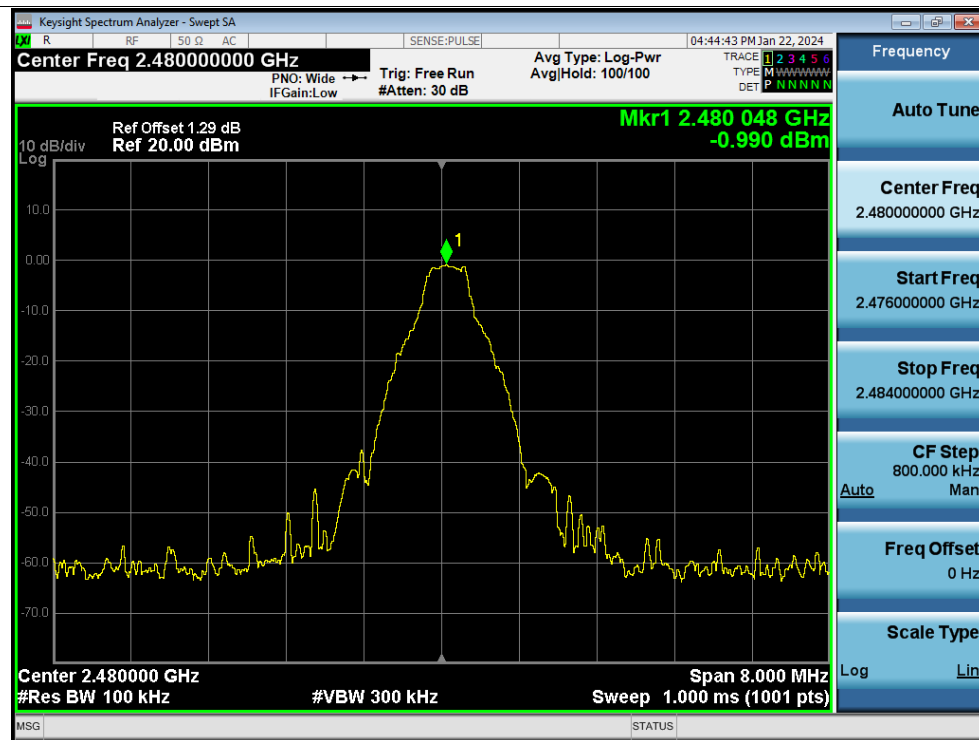
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



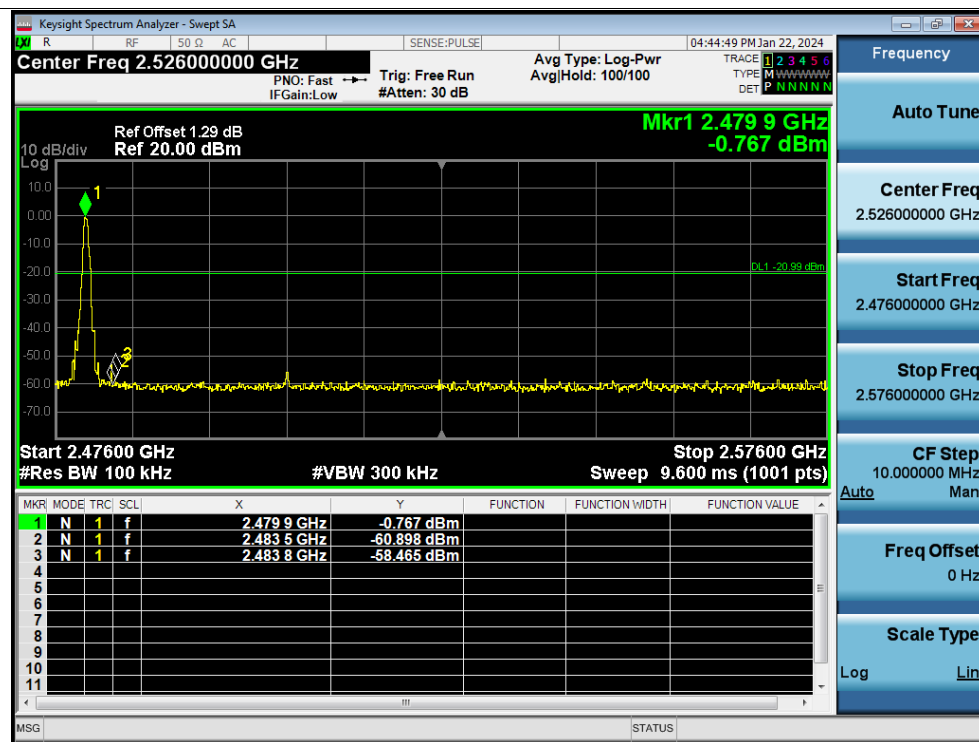
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



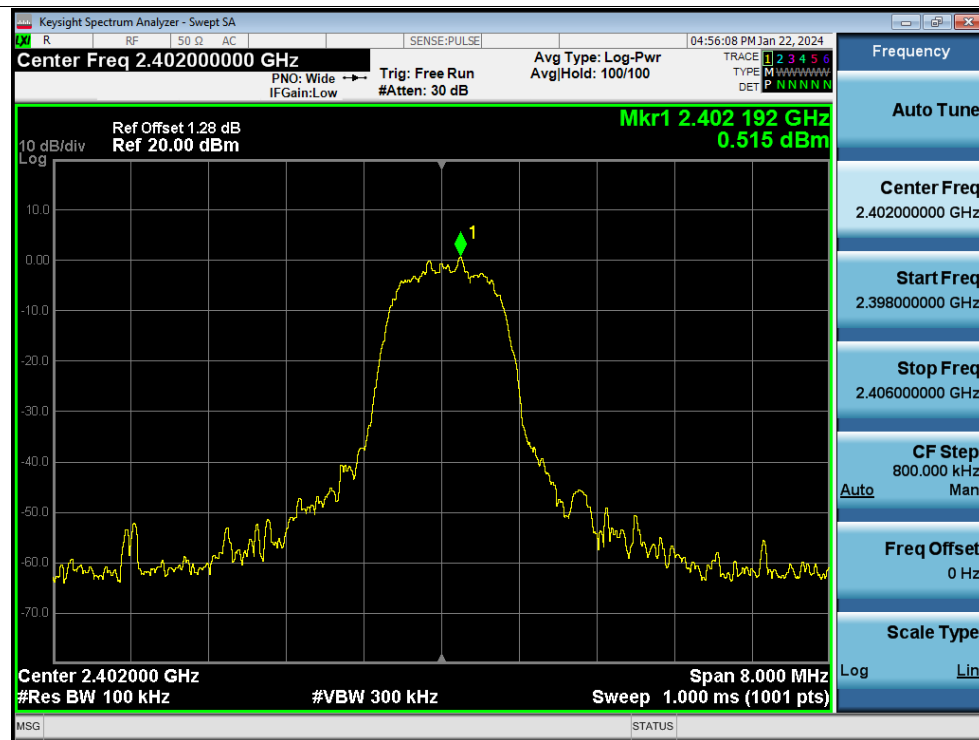
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



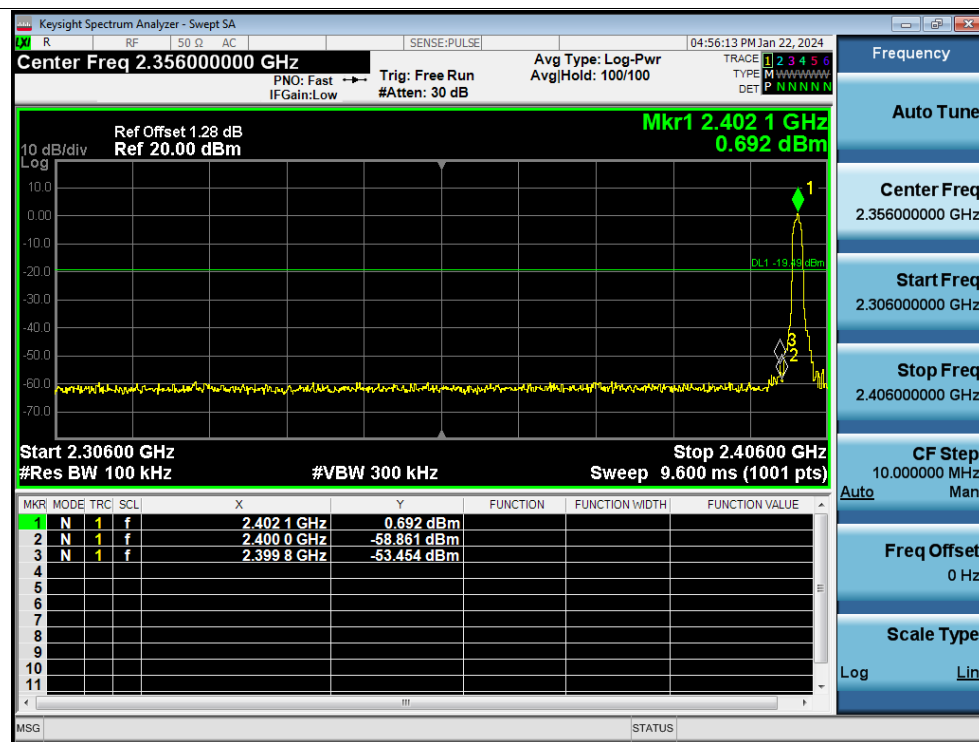
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



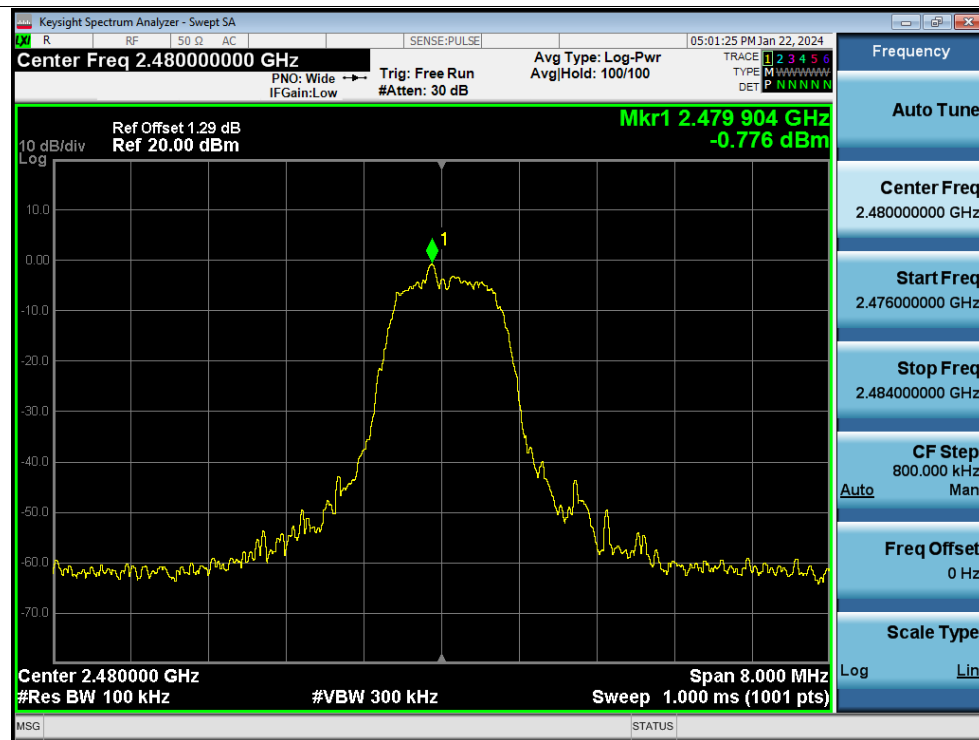
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



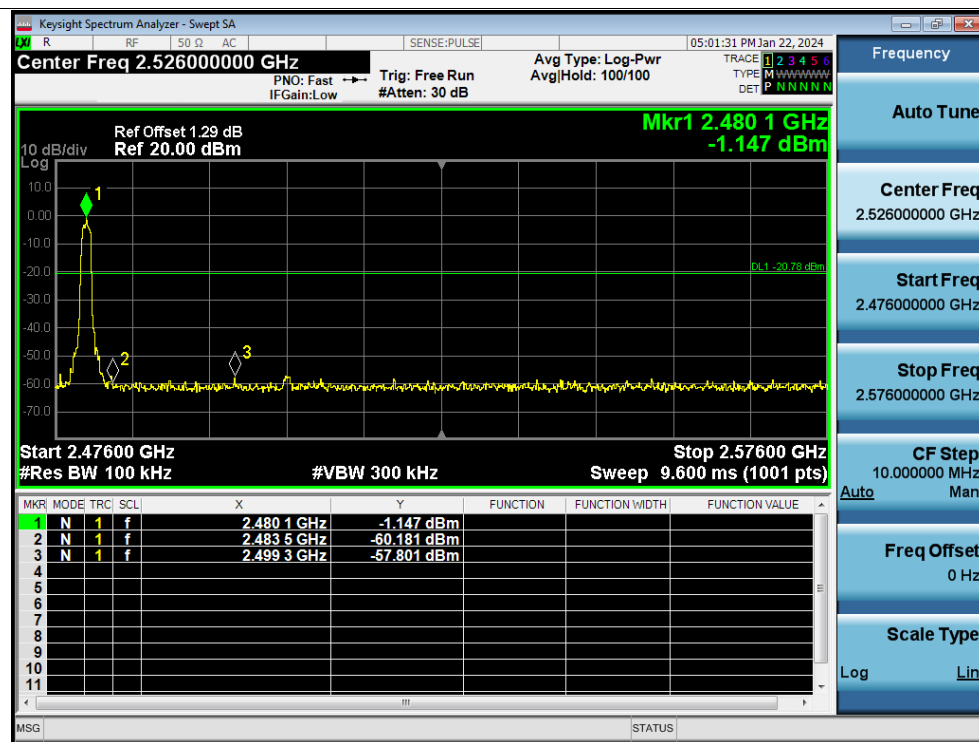
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



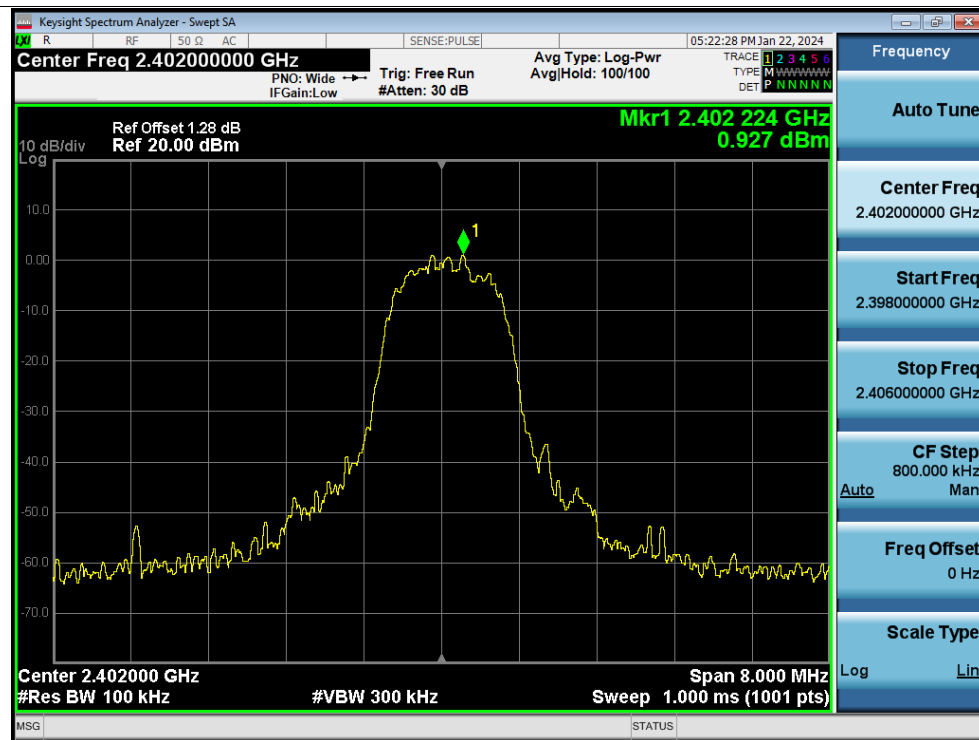
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



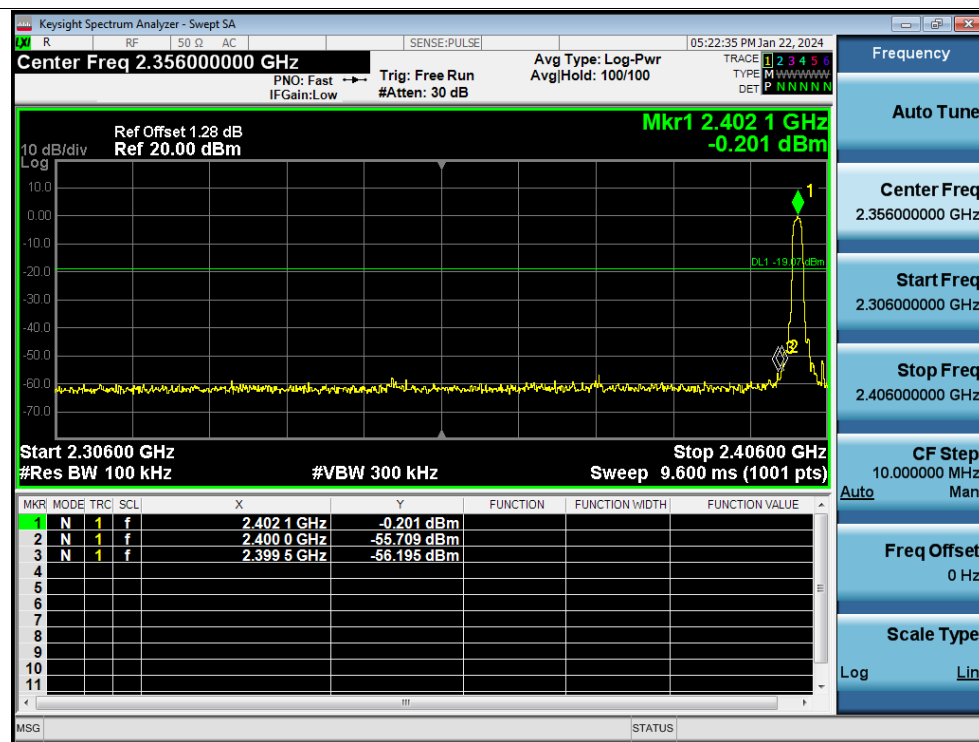
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



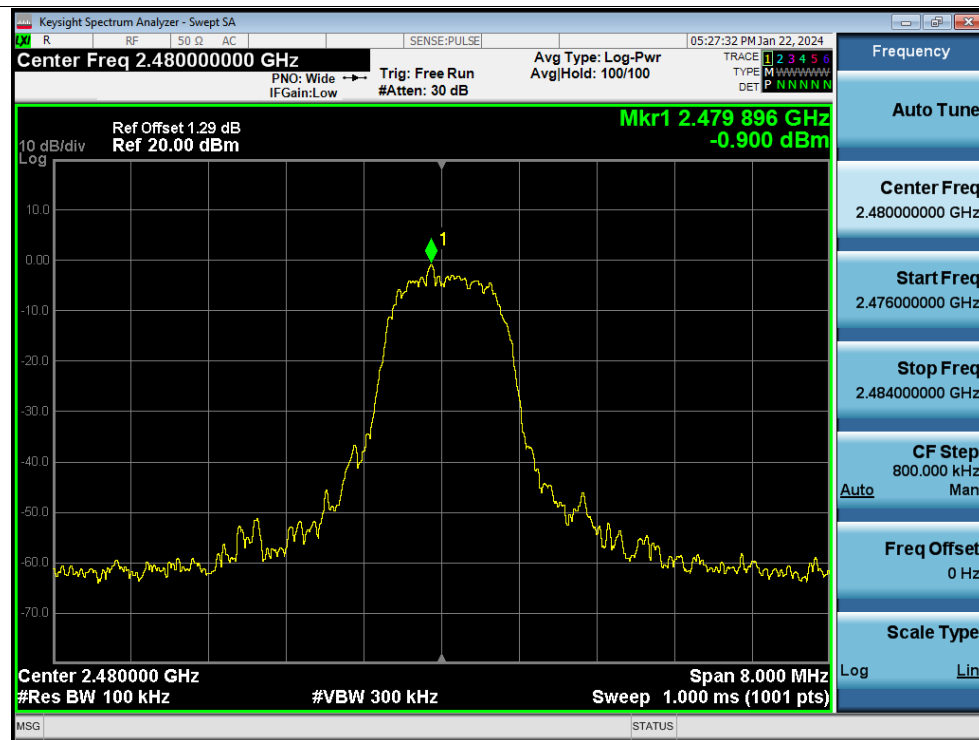
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



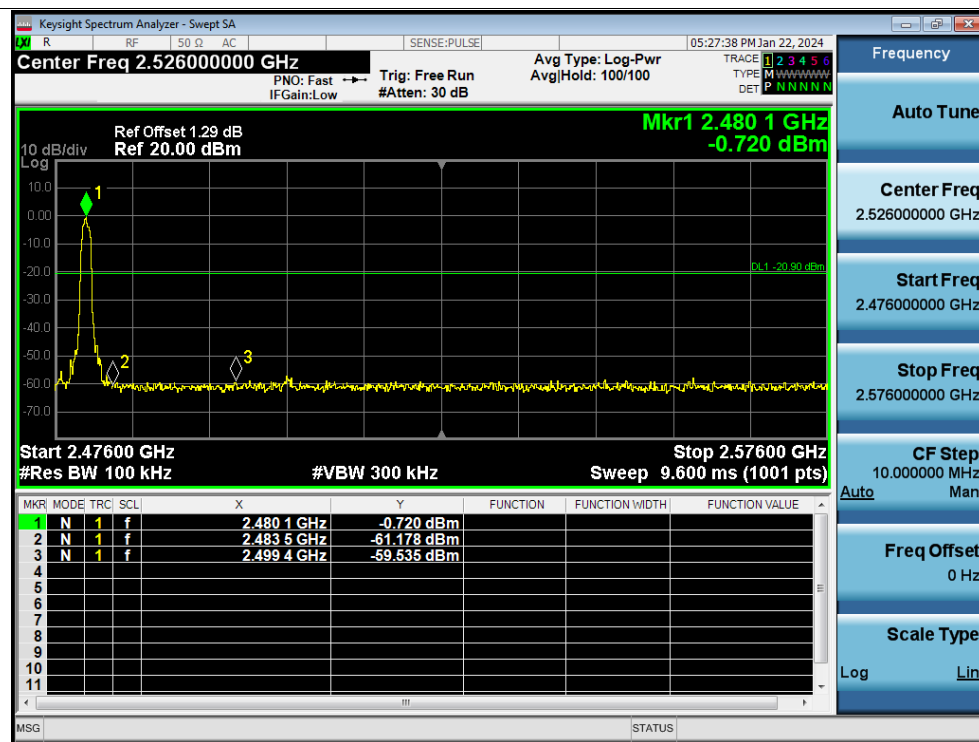
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



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



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



Band Edge(Hopping)

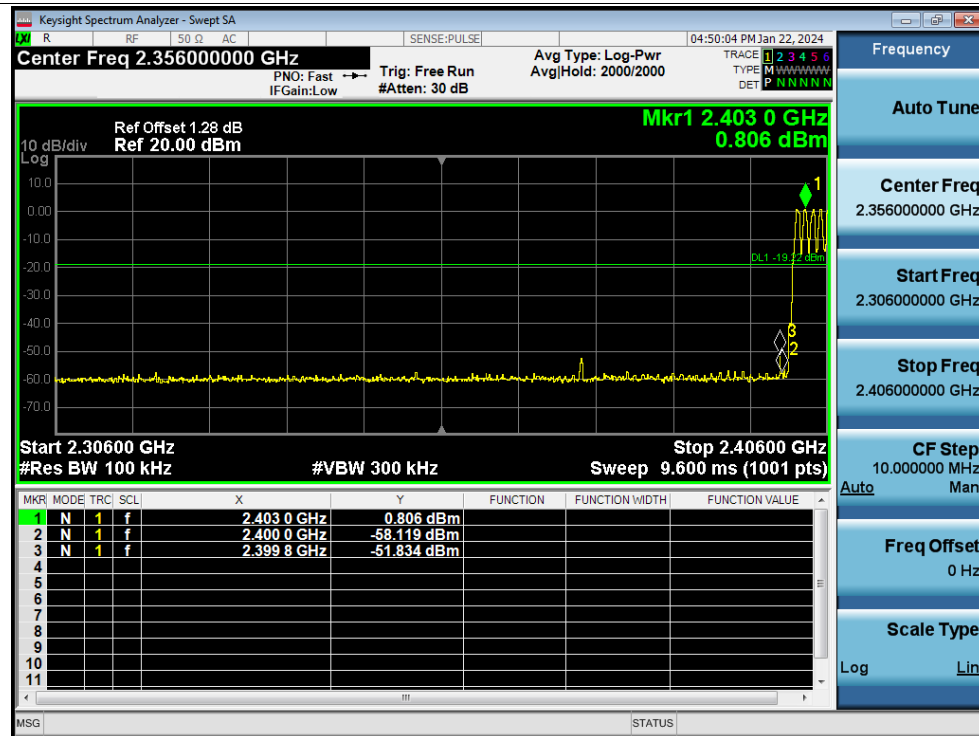
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-52.61	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-54.85	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-56.82	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-55.03	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-53.41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

Test Graphs

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



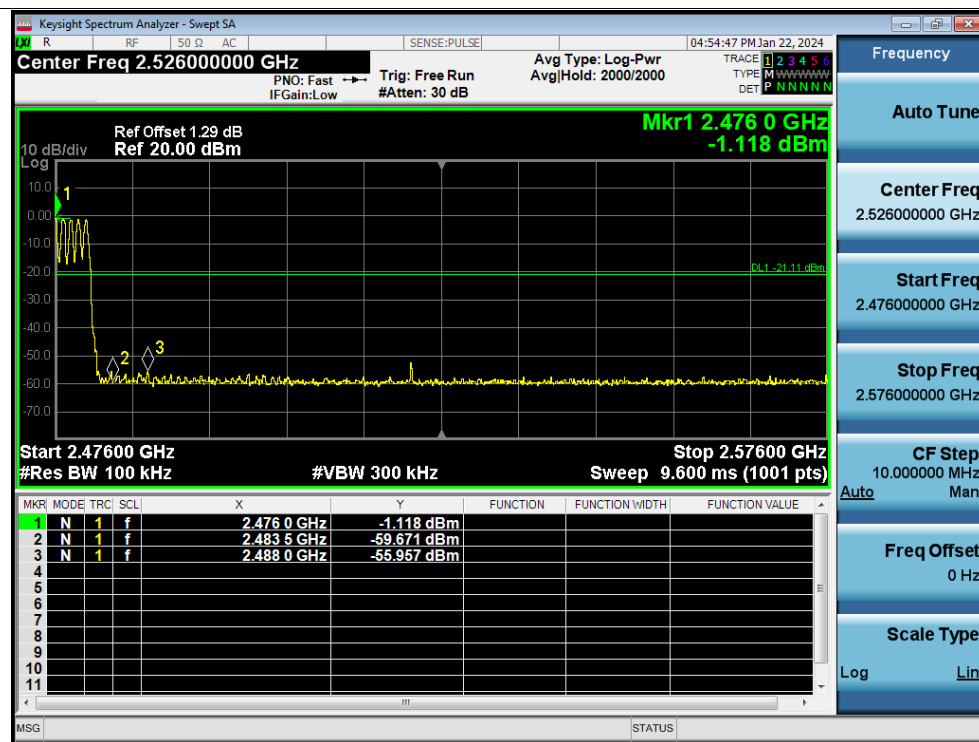
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



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



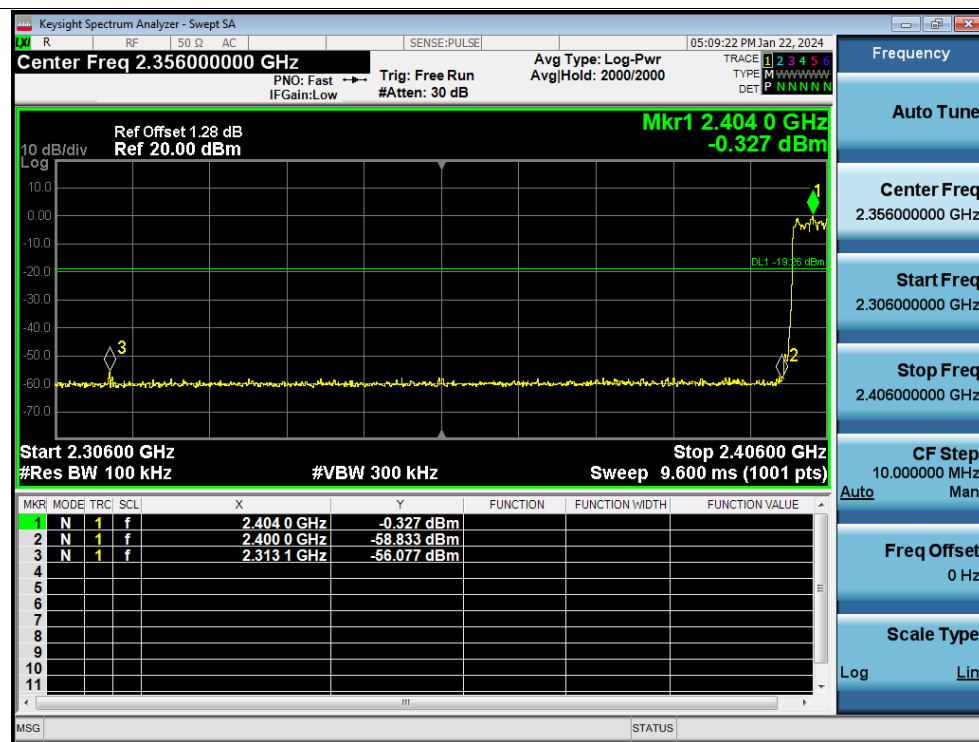
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



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



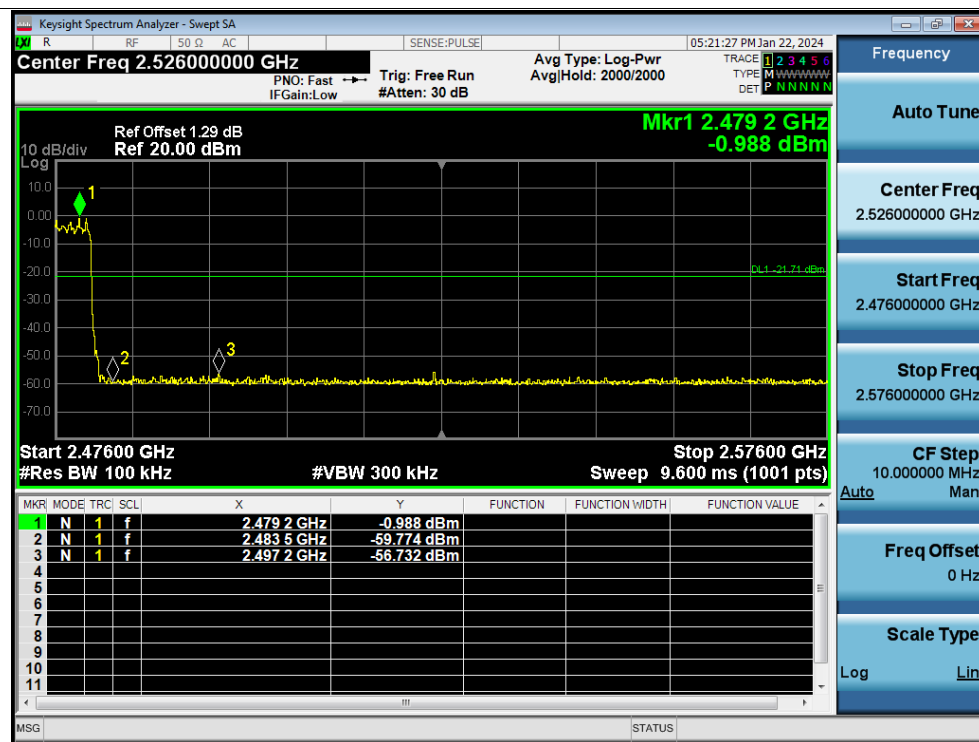
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



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



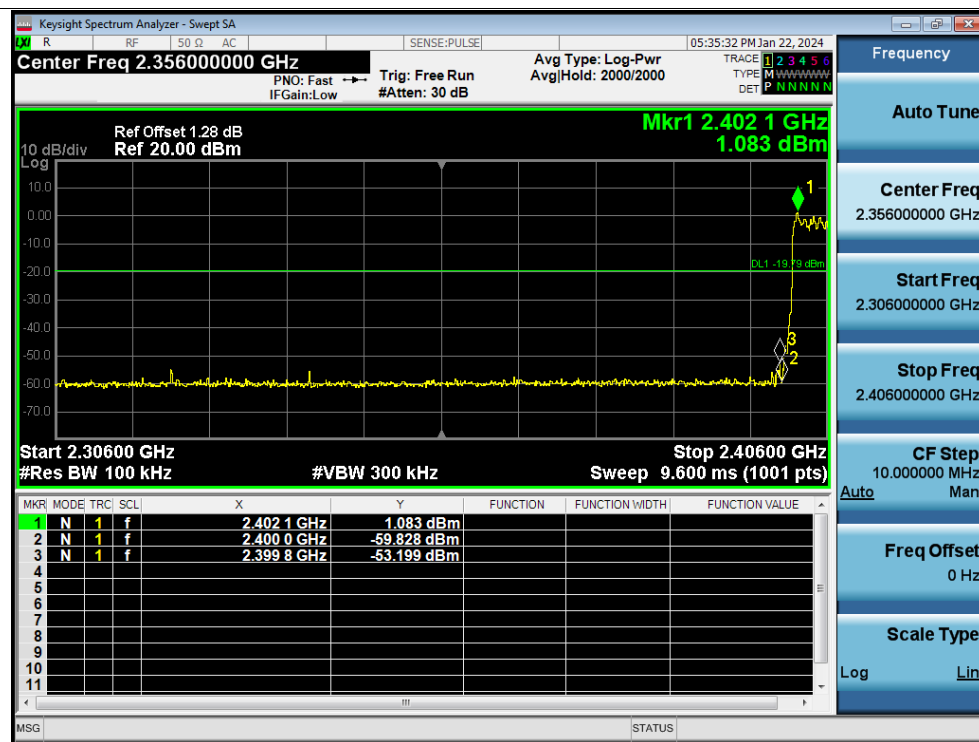
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



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



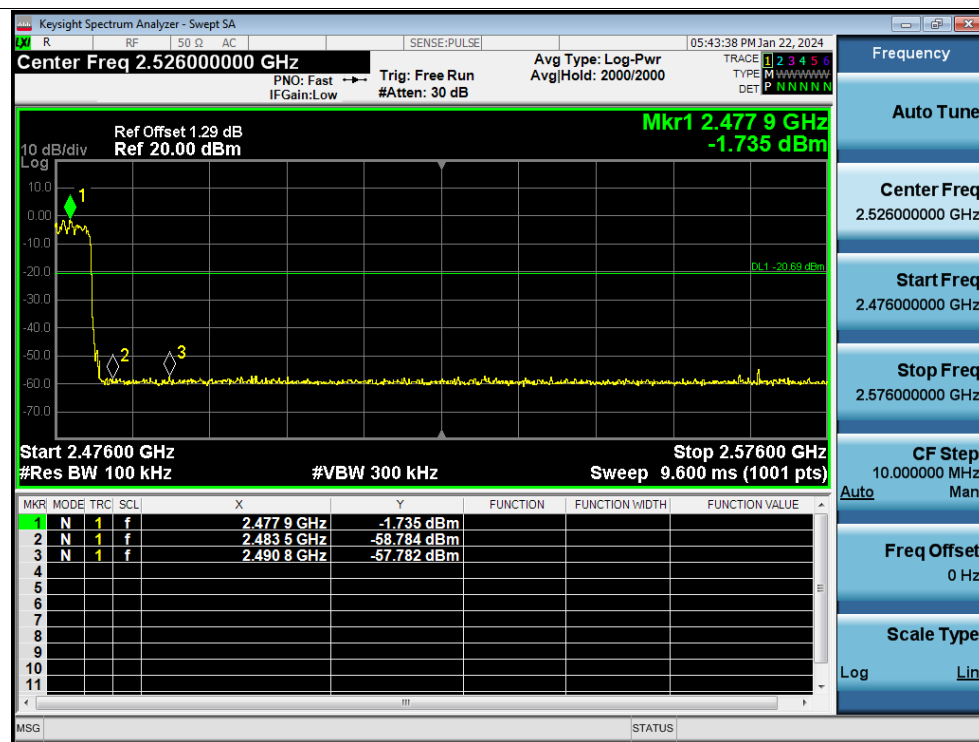
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



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



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



Conducted RF Spurious Emission

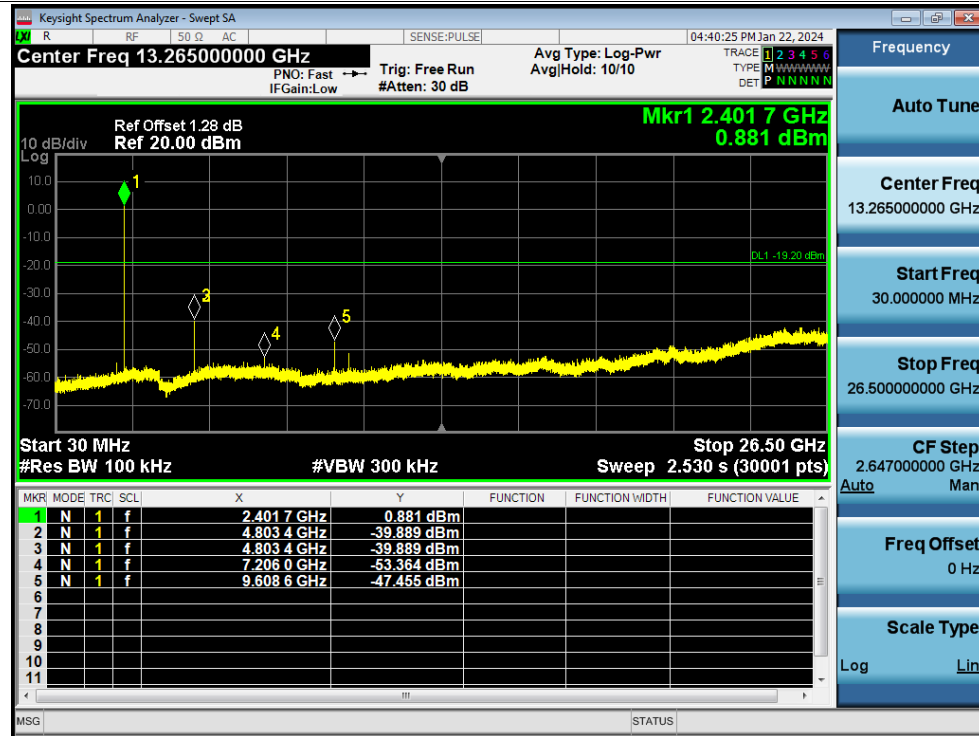
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-40.7	-20	Pass
NVNT	1-DH5	2441	Ant1	-39.94	-20	Pass
NVNT	1-DH5	2480	Ant1	-41.2	-20	Pass
NVNT	2-DH5	2402	Ant1	-42.15	-20	Pass
NVNT	2-DH5	2441	Ant1	-42.19	-20	Pass
NVNT	2-DH5	2480	Ant1	-41.61	-20	Pass
NVNT	3-DH5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



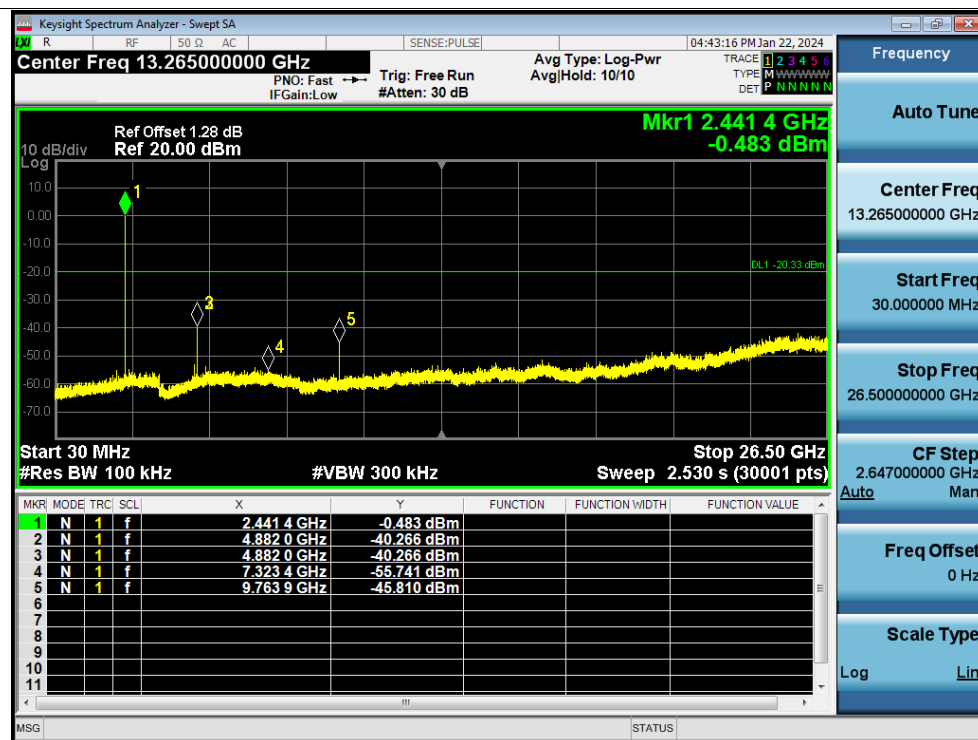
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



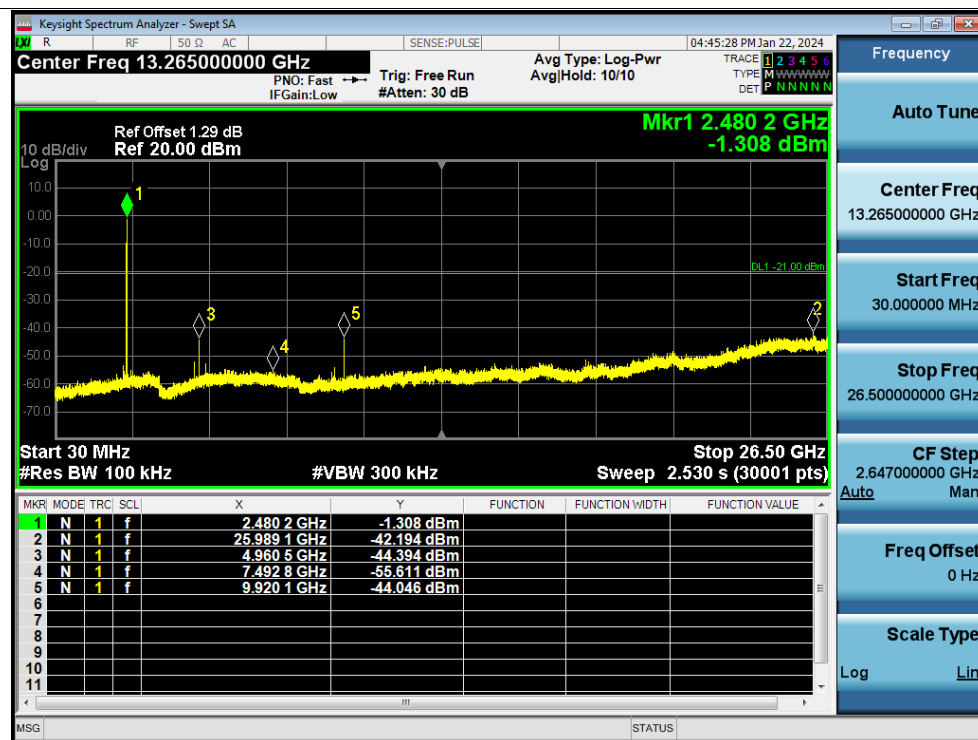
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



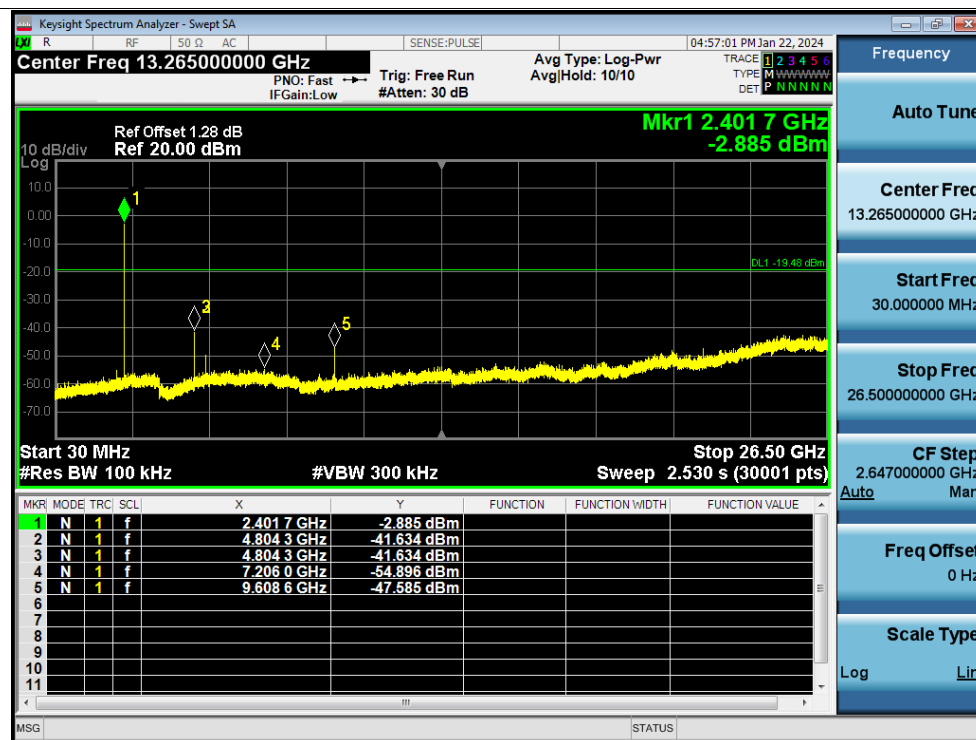
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



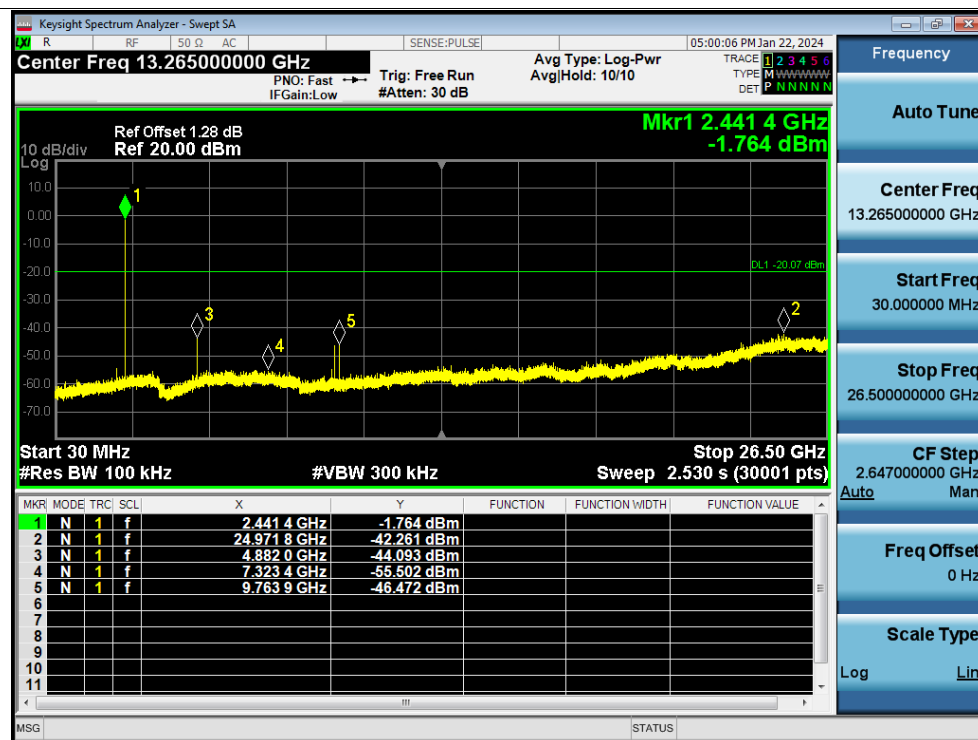
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



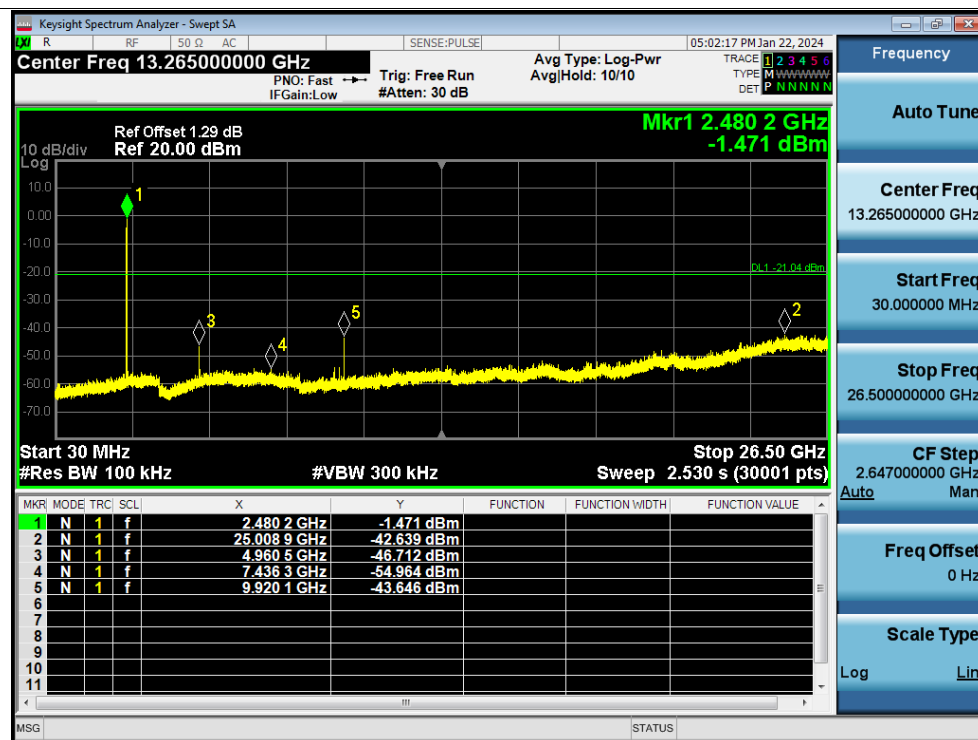
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



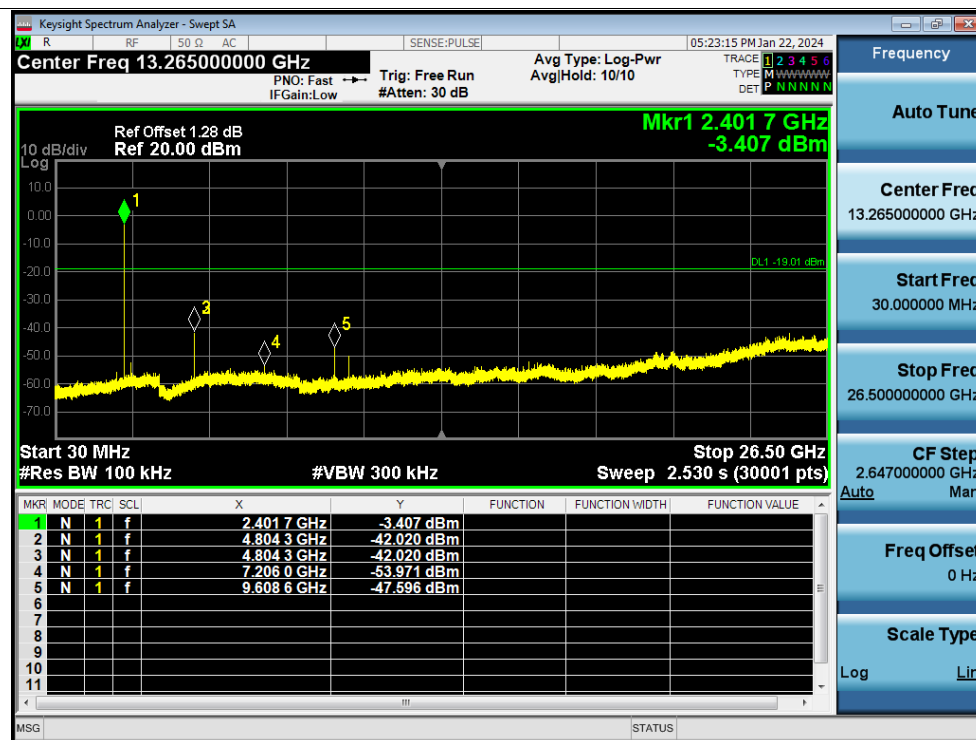
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



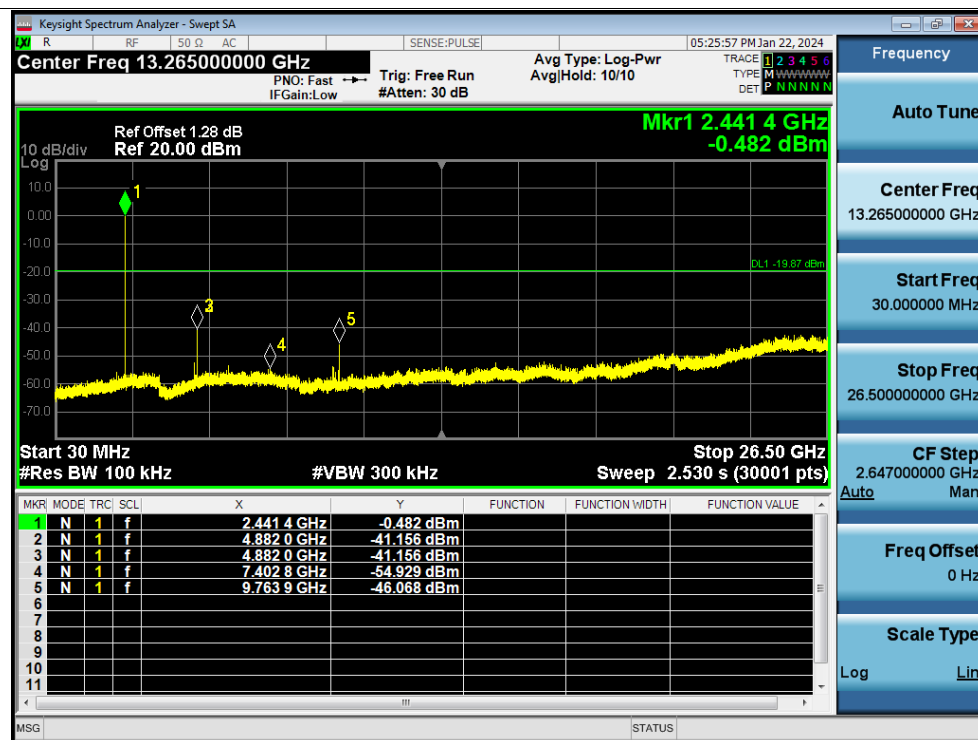
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



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

