

Table of Contents

1.Dwell Time	2
2.Maximum Peak Conducted Output Power	12
3.-20dB Bandwidth	18
4.Carrier Frequencies Separation	24
5.Number of Hopping Channel	30
6.Band Edge	32
7.Band Edge(Hopping)	39
8.Conducted RF Spurious Emission	46

FCC_BT(Part15.247) Test Data

FCC ID:2ANIE-V7

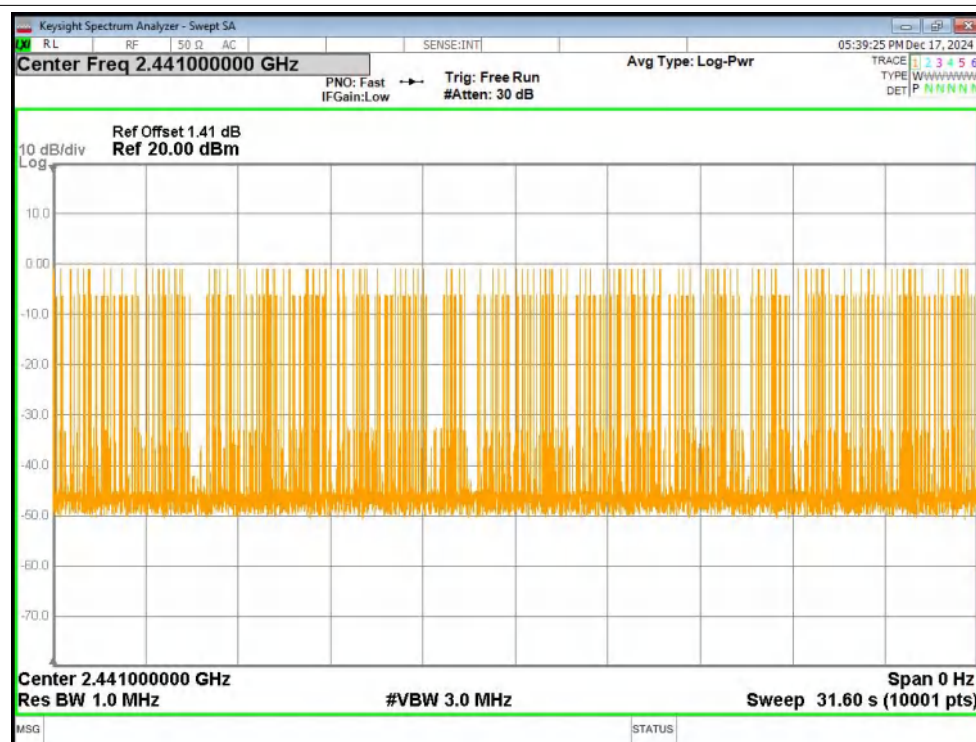
1.Dwell Time

Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2441	0.376	120.696	321	31600	400	Pass
1-DH3	2441	1.632	241.536	148	31600	400	Pass
1-DH5	2441	2.879	293.658	102	31600	400	Pass
2-DH1	2441	0.386	124.678	323	31600	400	Pass
2-DH3	2441	1.634	254.904	156	31600	400	Pass
2-DH5	2441	2.885	291.385	101	31600	400	Pass
3-DH1	2441	0.387	123.066	318	31600	400	Pass
3-DH3	2441	1.636	276.484	169	31600	400	Pass
3-DH5	2441	2.887	306.022	106	31600	400	Pass

Dwell NVNT 1-DH3 2441MHz Ant1 One Burst



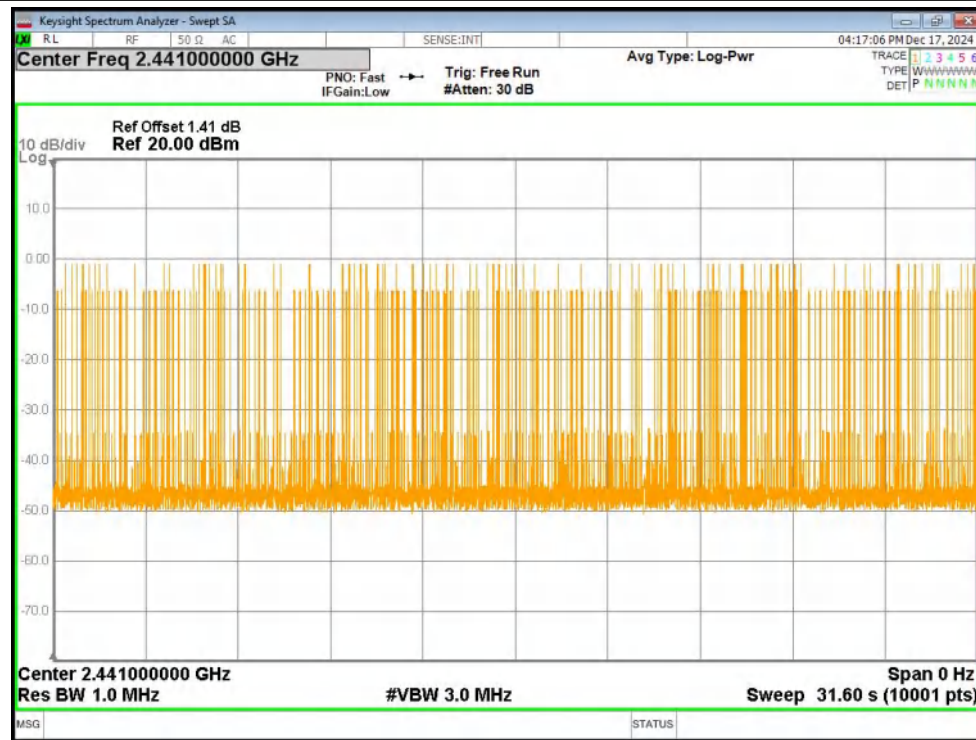
Dwell NVNT 1-DH3 2441MHz Ant1 Accumulated



Dwell NVNT 1-DH5 2441MHz Ant1 One Burst



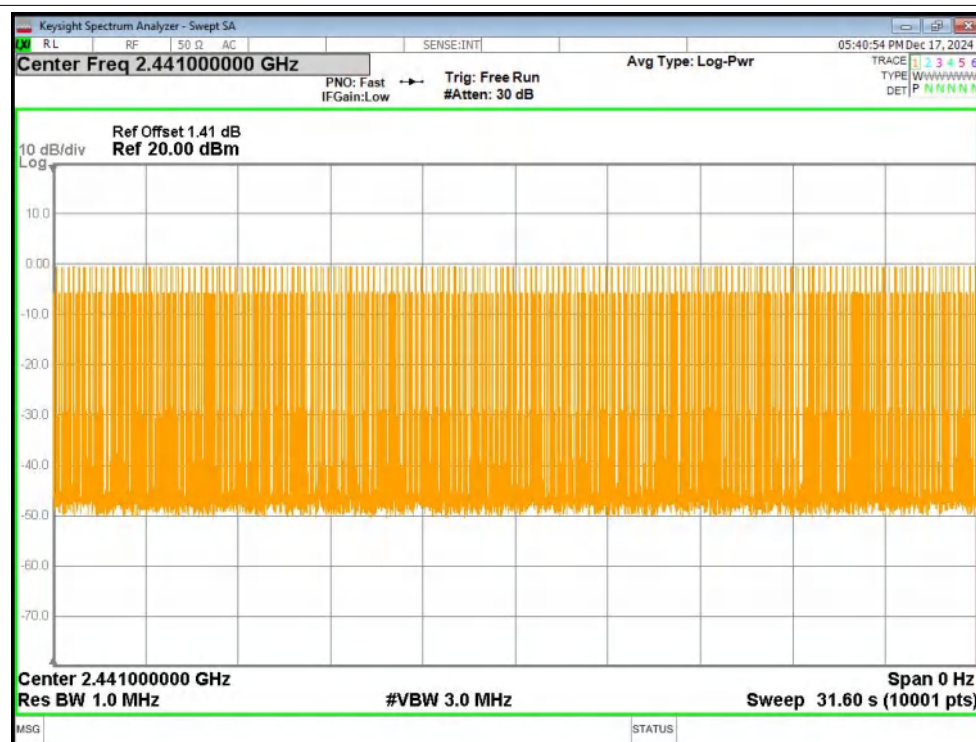
Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated



Dwell NVNT 2-DH1 2441MHz Ant1 One Burst



Dwell NVNT 2-DH1 2441MHz Ant1 Accumulated



Keysight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz
PNO: Fast IFGain: Low
Trig Delay: 500.0 μs
Trig: Video
#Atten: 30 dB
Avg Type: Log-Pwr
Ref Offset 1.41 dB
Ref 20.00 dBm
 $\Delta Mkr1$ 1.634 ms
-3.23 dB

10 dB/div
Log

Center 2.441000000 GHz
Res BW 1.0 MHz
#VBW 3.0 MHz
Sweep 10.00 ms (10001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	$\Delta 2$	t	(Δ)	1.634 ms (Δ)	-3.23 dB			
2	F	t		491.0 μs	-12.00 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								

Keysight Spectrum Analyzer - Swept SA

05:41:40 PM Dec 17, 2024

Center Freq 2.441000000 GHz

Avg Type: Log-Pwr

Trace 1 2 3 4 5 6

TYPE: WWWWWWW

DET: P NNNNN

PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB

Ref Offset 1.41 dB

Ref 20.00 dBm

10 dB/div

Log

Center 2.441000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Span 0 Hz

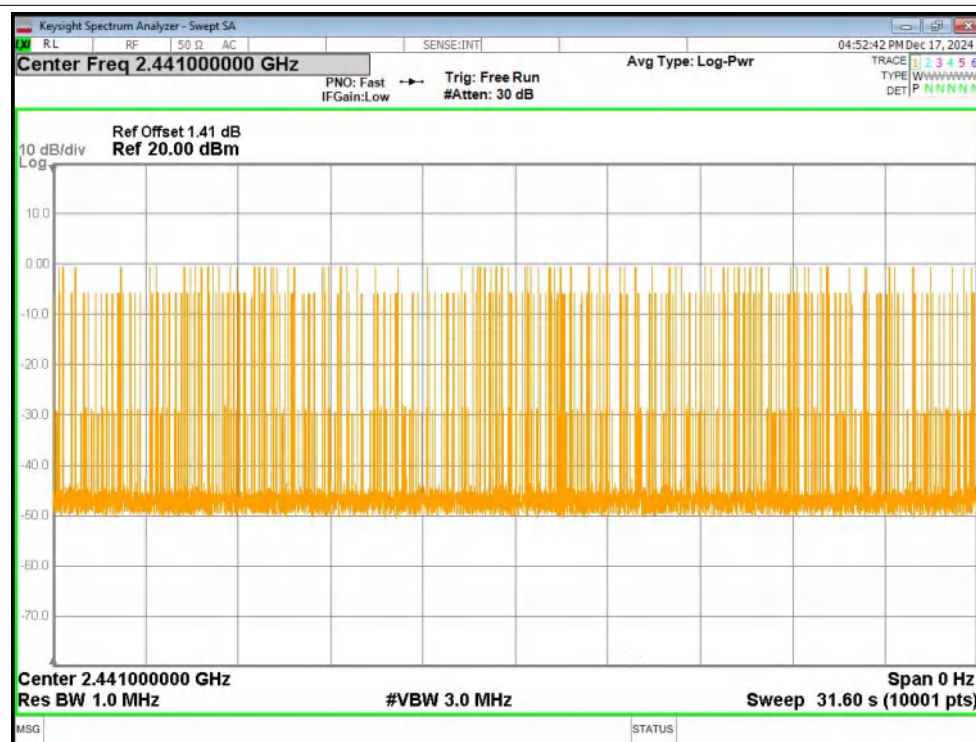
Sweep 31.60 s (10001 pts)

MSG STATUS

Dwell NVNT 2-DH5 2441MHz Ant1 One Burst



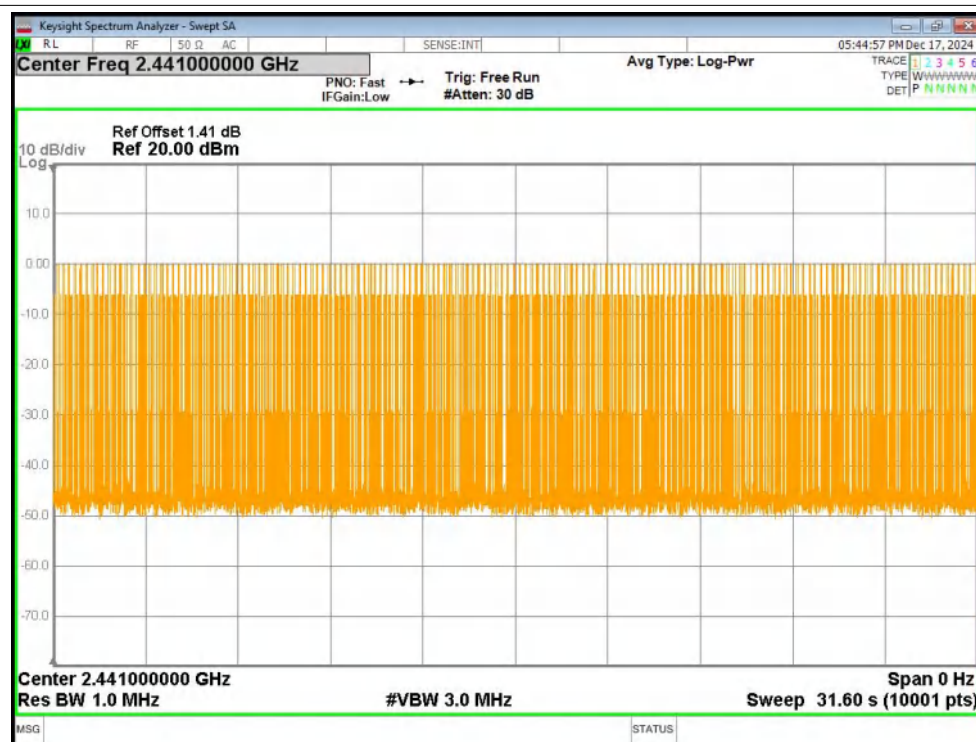
Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated



Dwell NVNT 3-DH1 2441MHz Ant1 One Burst



Dwell NVNT 3-DH1 2441MHz Ant1 Accumulated



[illegible]

Keysight Spectrum Analyzer - Swept SA

05:44:12 PM Dec 17, 2024

Center Freq 2.441000000 GHz

Avg Type: Log-Pwr

Ref Offset 1.41 dB

Ref 20.00 dBm

10 dB/div

Log

Center 2.441000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Span 0 Hz

Sweep 31.60 s (10001 pts)

MSG STATUS

The screenshot shows a Keysight Spectrum Analyzer interface. The main plot displays a signal transition from approximately -10 dBm to -60 dBm. Key parameters include:

- Center Freq:** 2.441000000 GHz
- Ref Offset:** 1.41 dB
- Ref:** 20.00 dBm
- Trig Delay:** 500.0 μs
- Trig:** Video
- #Atten:** 30 dB
- Avg Type:** Log-Pwr
- PNO:** Fast IF Gain: Low
- ΔMkr1:** 2.887 ms, -0.34 dB
- Span:** 0 Hz
- Res BW:** 1.0 MHz
- #VBW:** 3.0 MHz
- Sweep:** 10.00 ms (10001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ2	F	t	(Δ)	2.887 ms	(Δ)	-0.34 dB	
2			t		488.0 μs		-14.65 dBm	

Keysight Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT 05:29:42 PM Dec 17, 2024

Center Freq 2.441000000 GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr

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

10 dB/div
Log

Ref Offset 1.41 dB
Ref 20.00 dBm

Center 2.441000000 GHz Span 0 Hz
Res BW 1.0 MHz #VBW 3.0 MHz Sweep 31.60 s (10001 pts)

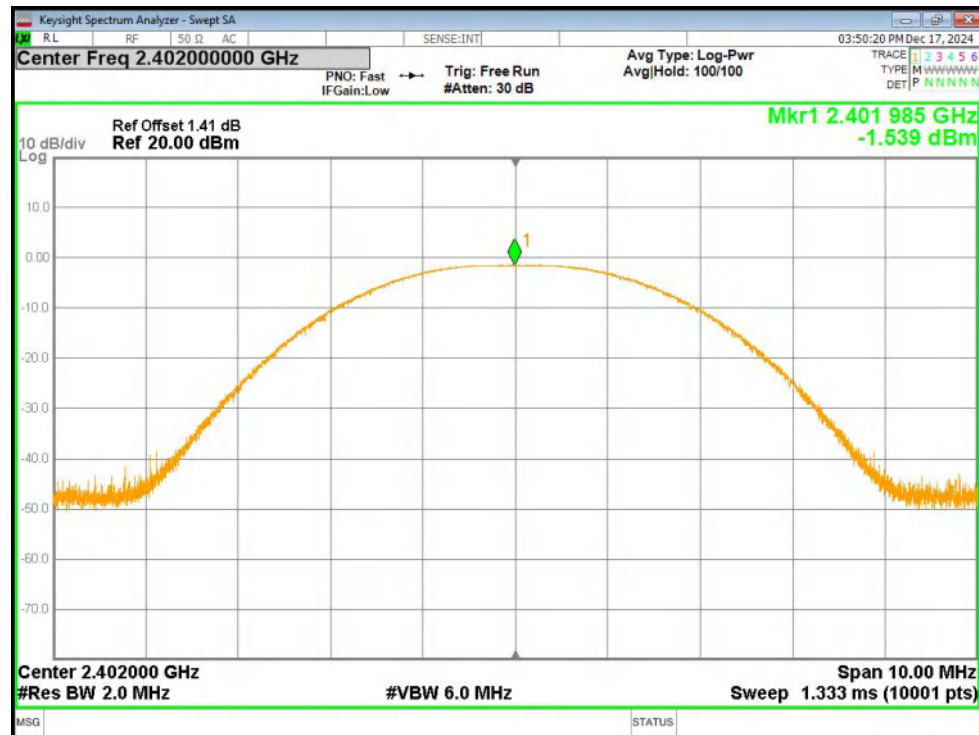
MSG STATUS

2.Maximum Peak Conducted Output Power

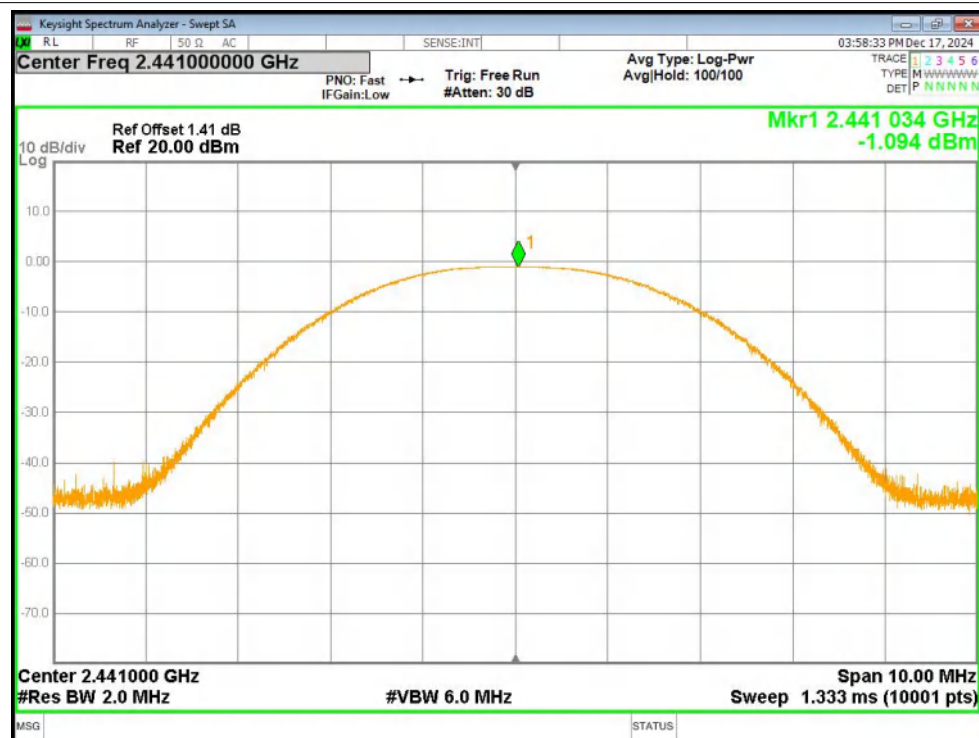
Mode	Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Verdict
1-DH5	2402	-1.54	21	Pass
1-DH5	2441	-1.09	21	Pass
1-DH5	2480	-1.67	21	Pass
2-DH5	2402	-0.6	21	Pass
2-DH5	2441	-0.26	21	Pass
2-DH5	2480	-0.81	21	Pass
3-DH5	2402	-0.24	21	Pass
3-DH5	2441	0.18	21	Pass
3-DH5	2480	-0.41	21	Pass

Test Graphs

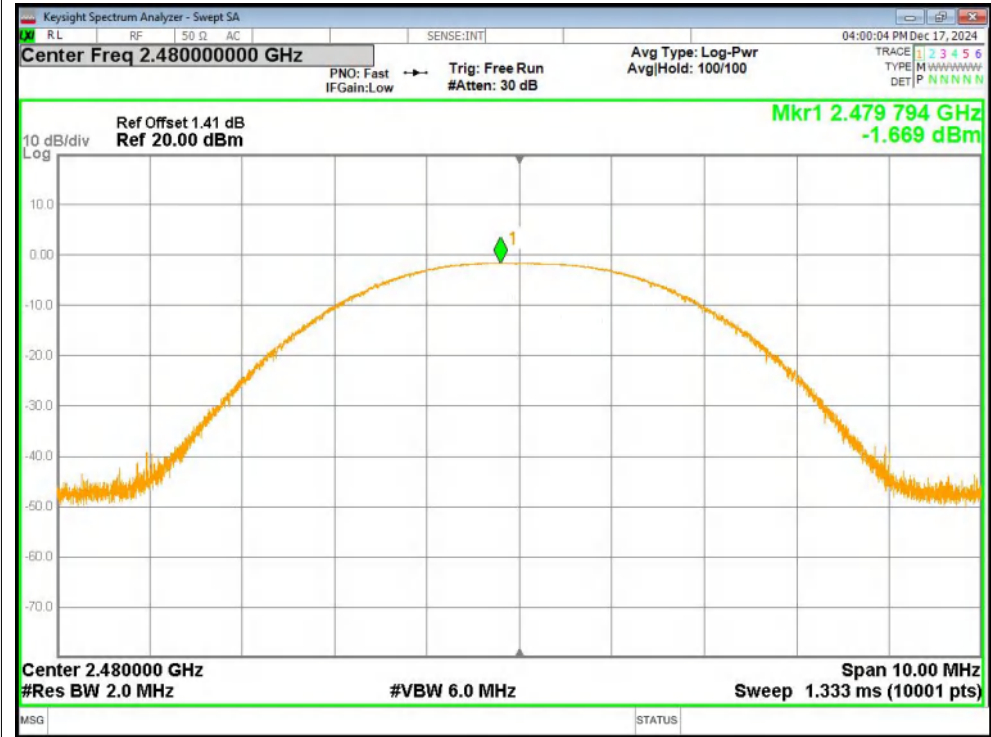
Peak Power NVNT 1-DH5 2402MHz Ant1



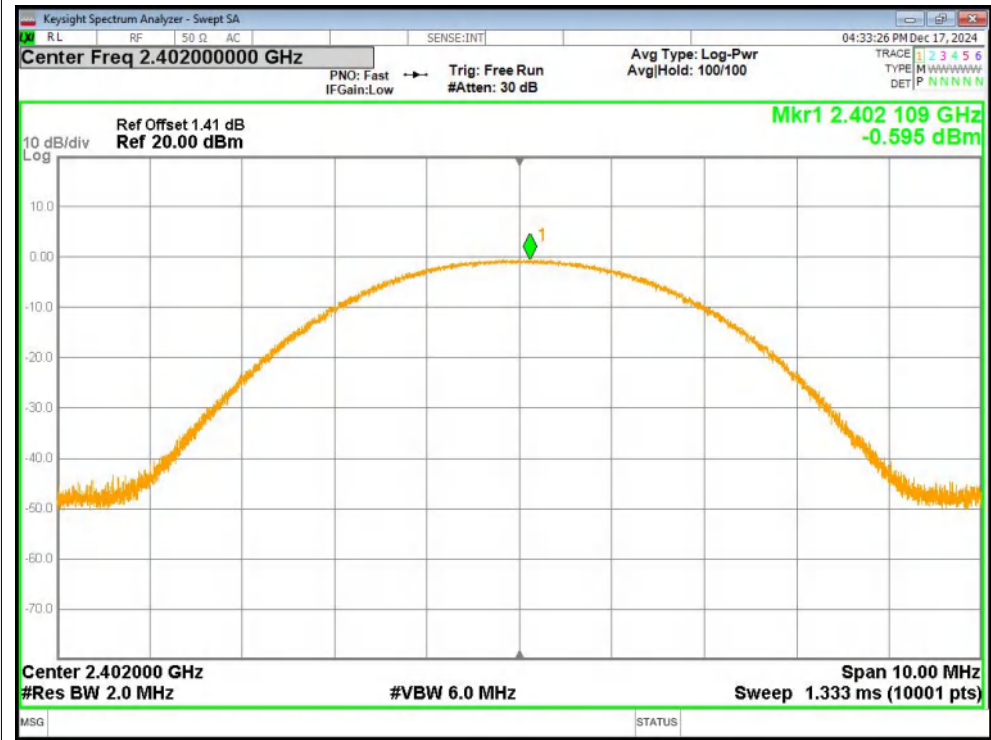
Peak Power NVNT 1-DH5 2441MHz Ant1



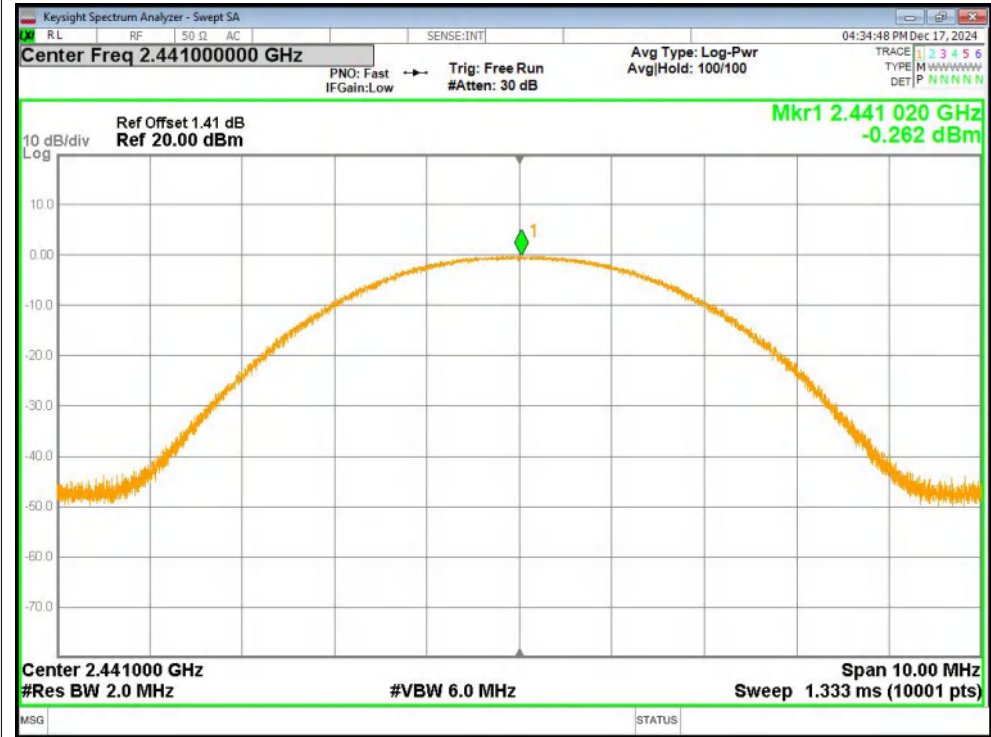
Peak Power NVNT 1-DH5 2480MHz Ant1



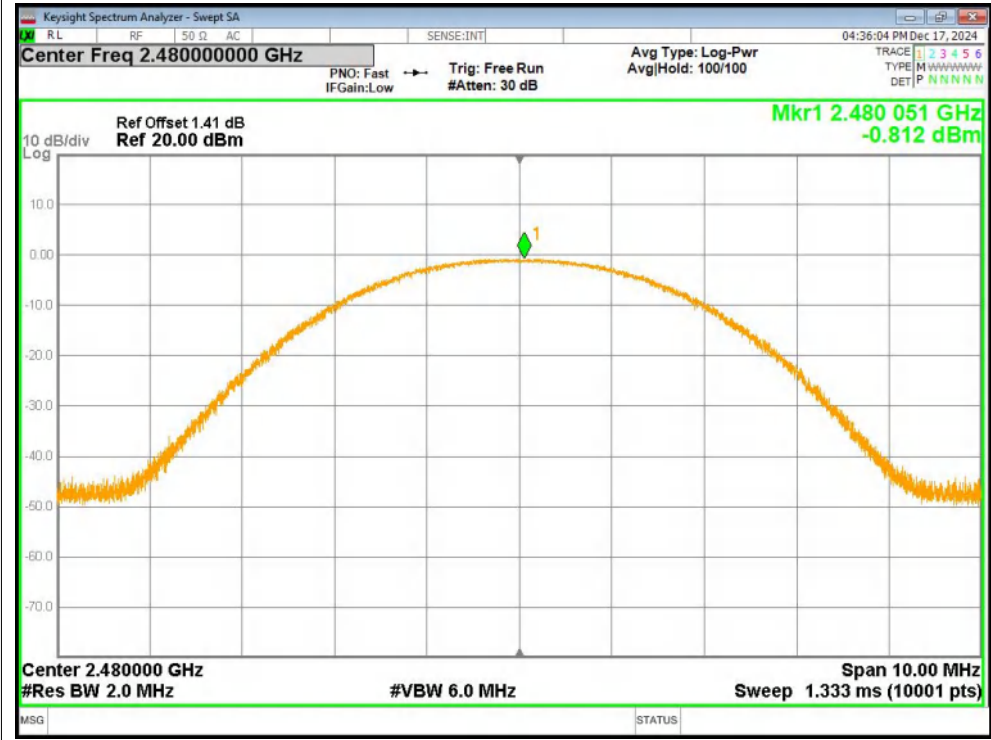
Peak Power NVNT 2-DH5 2402MHz Ant1



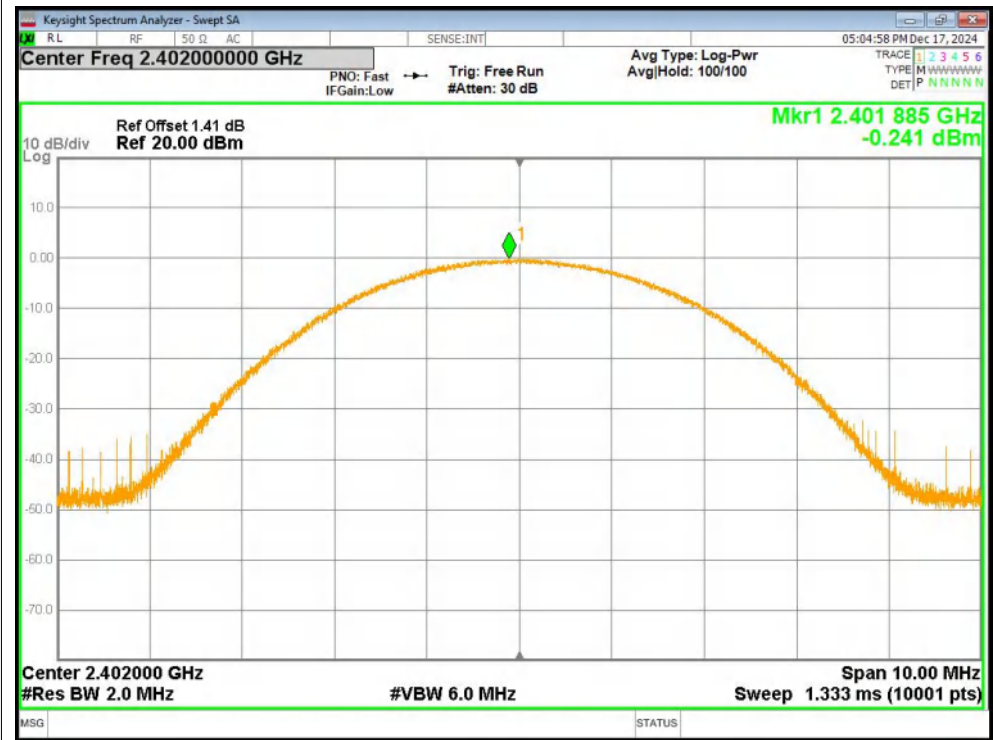
Peak Power NVNT 2-DH5 2441MHz Ant1



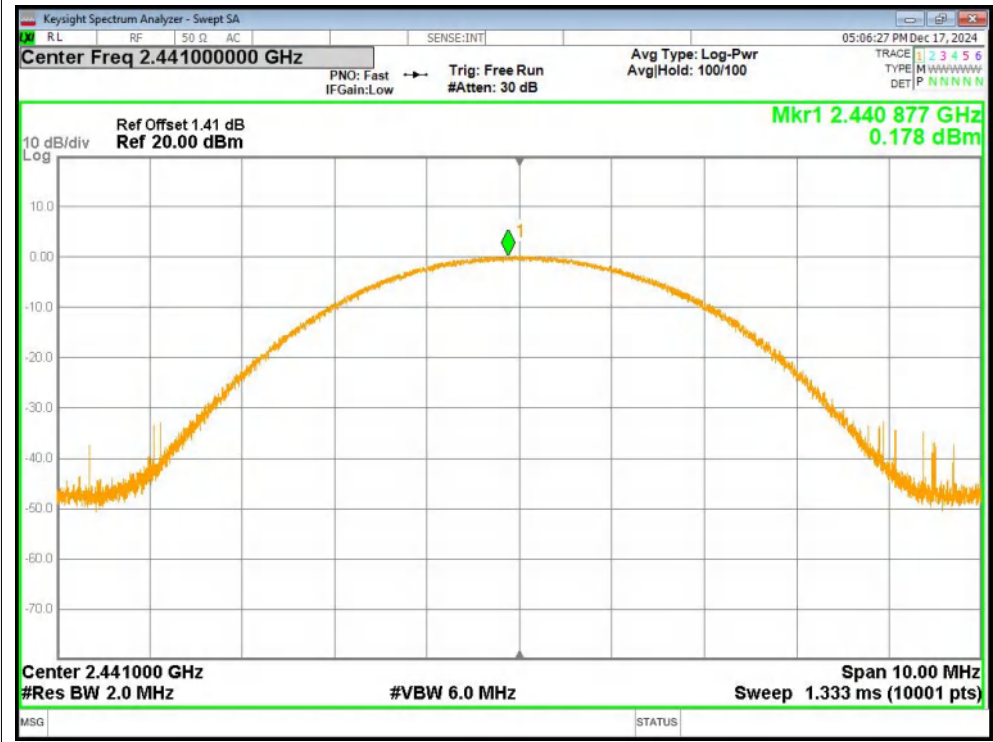
Peak Power NVNT 2-DH5 2480MHz Ant1



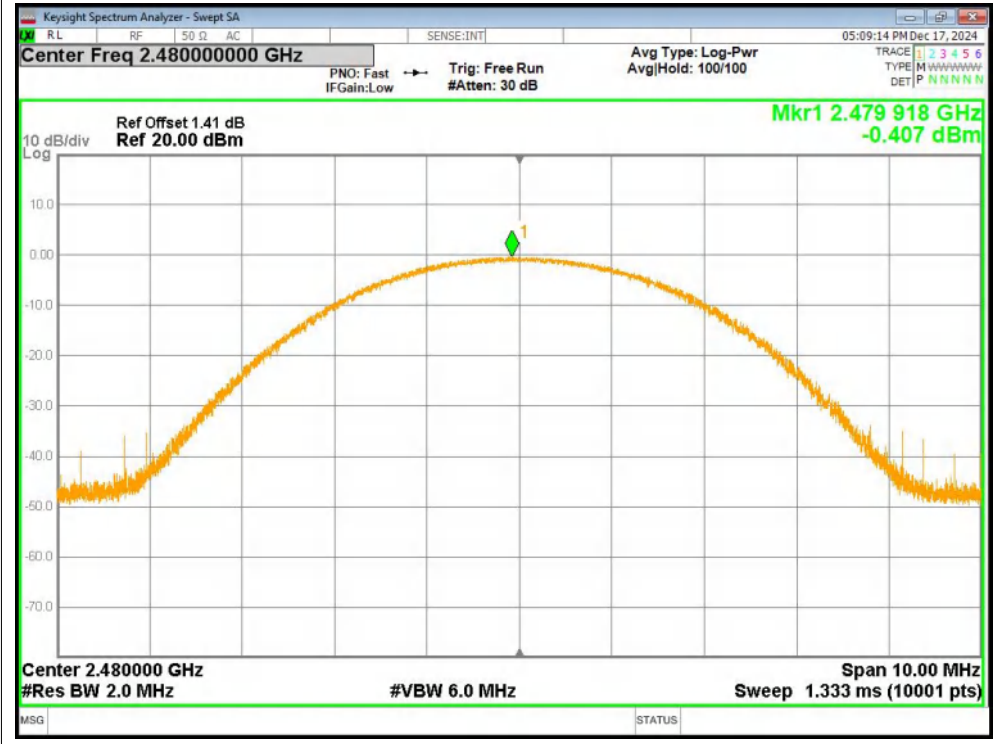
Peak Power NVNT 3-DH5 2402MHz Ant1



Peak Power NVNT 3-DH5 2441MHz Ant1



Peak Power NVNT 3-DH5 2480MHz Ant1

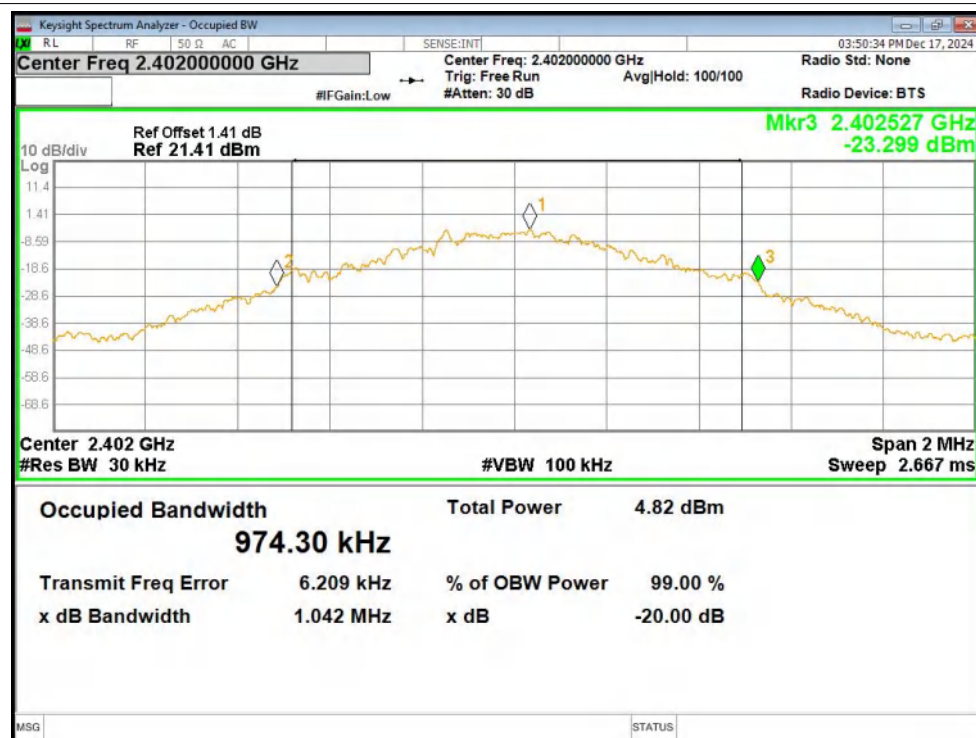


3.-20dB Bandwidth

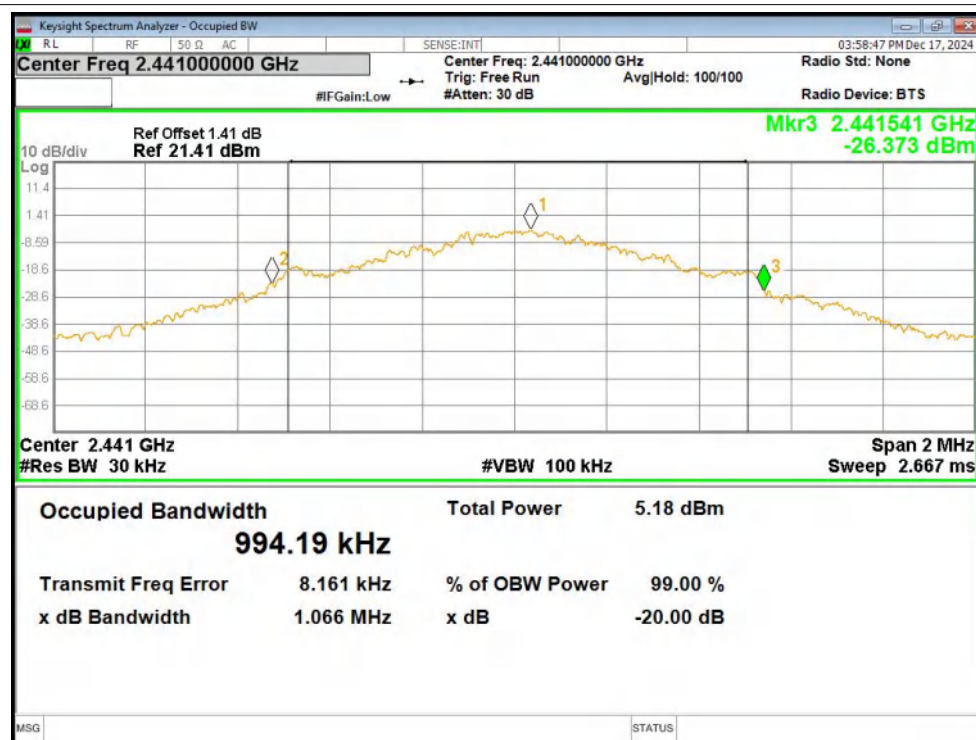
Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
1-DH5	2402	1.042	Pass
1-DH5	2441	1.066	Pass
1-DH5	2480	1.05	Pass
2-DH5	2402	1.323	Pass
2-DH5	2441	1.336	Pass
2-DH5	2480	1.365	Pass
3-DH5	2402	1.328	Pass
3-DH5	2441	1.366	Pass
3-DH5	2480	1.342	Pass

Test Graphs

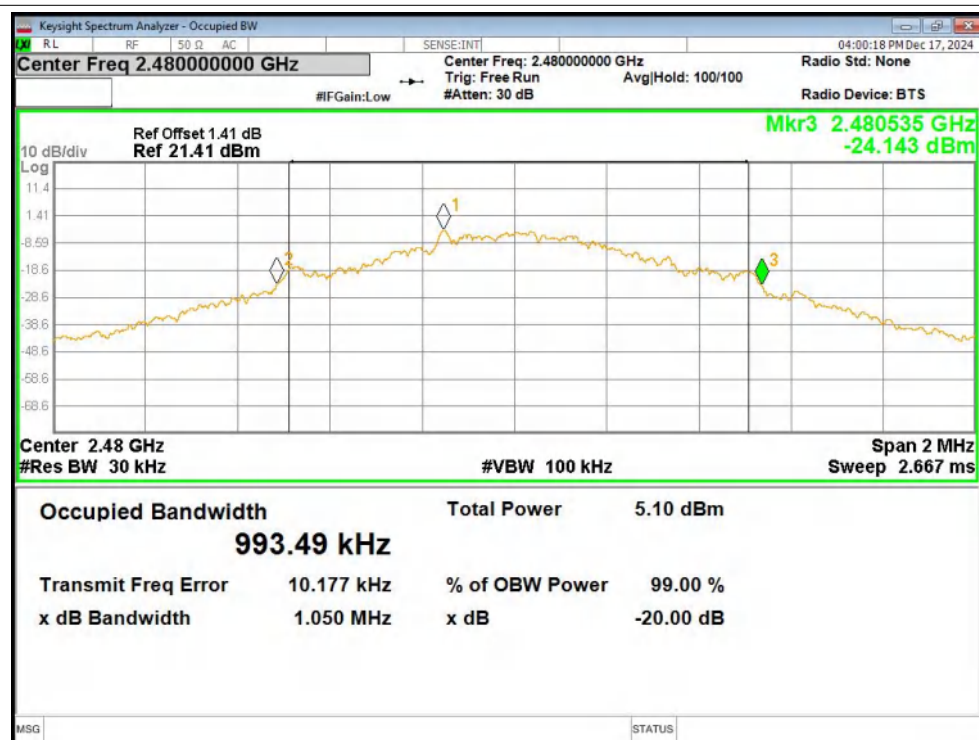
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



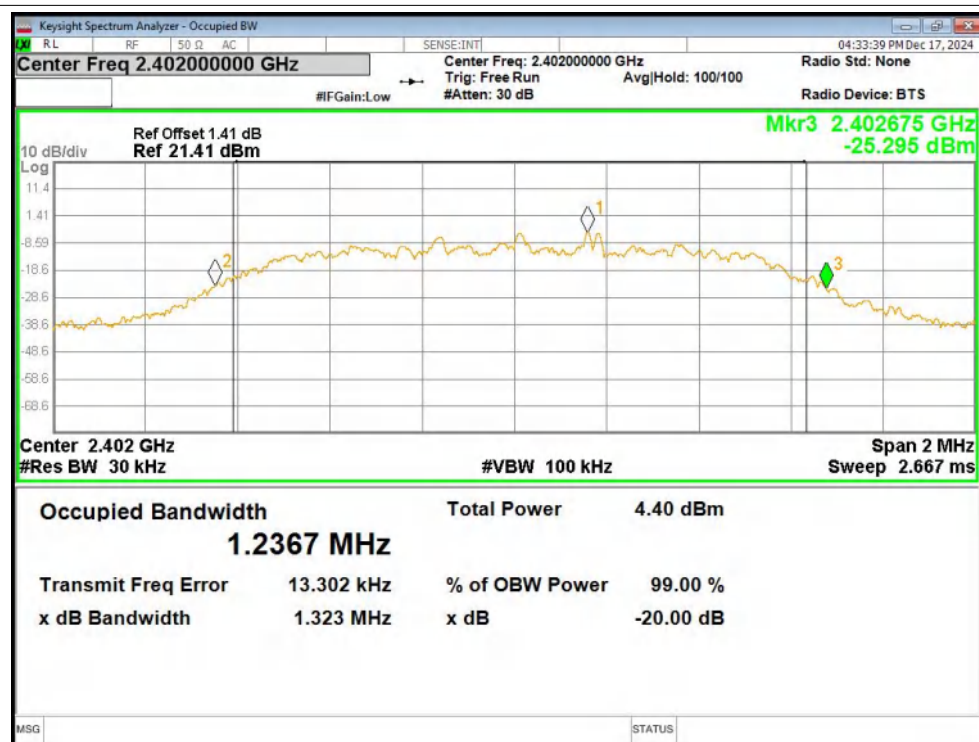
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



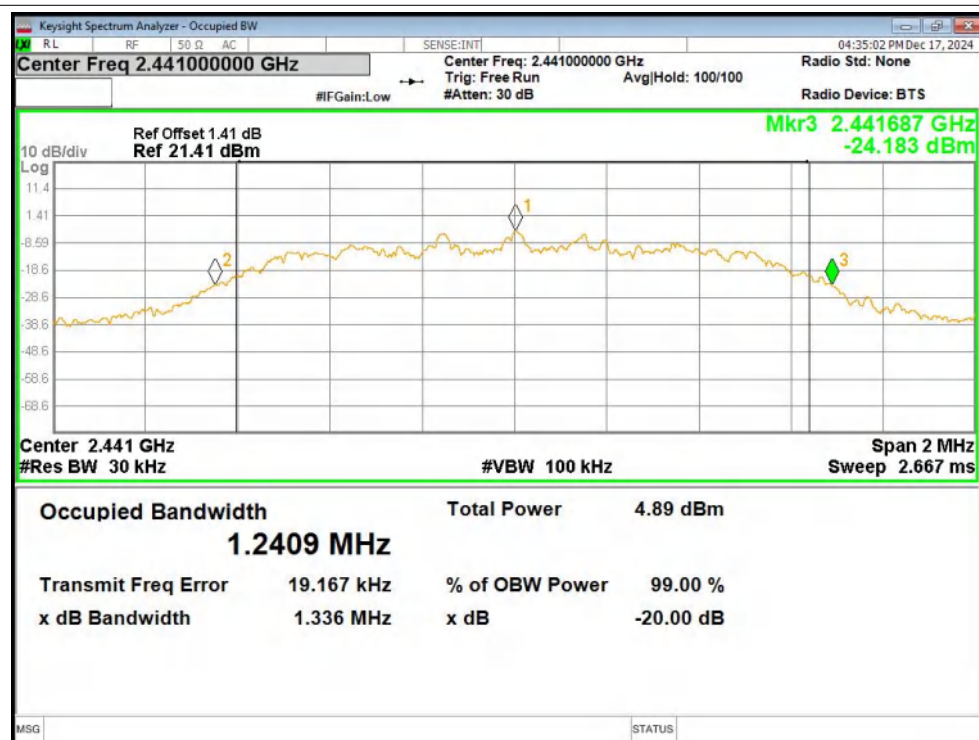
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



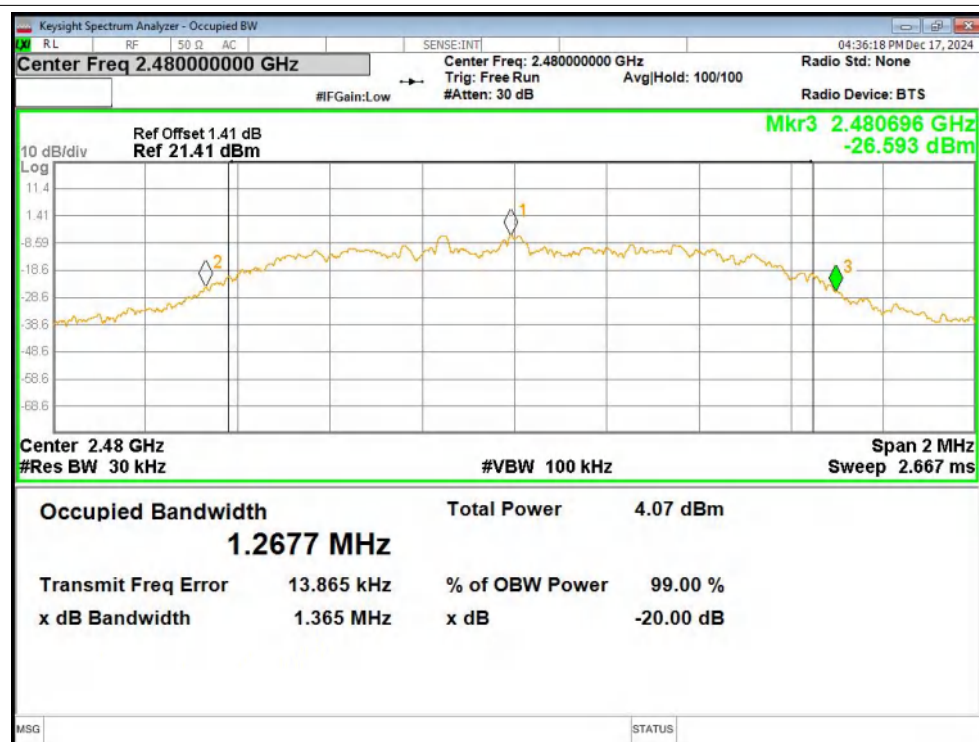
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



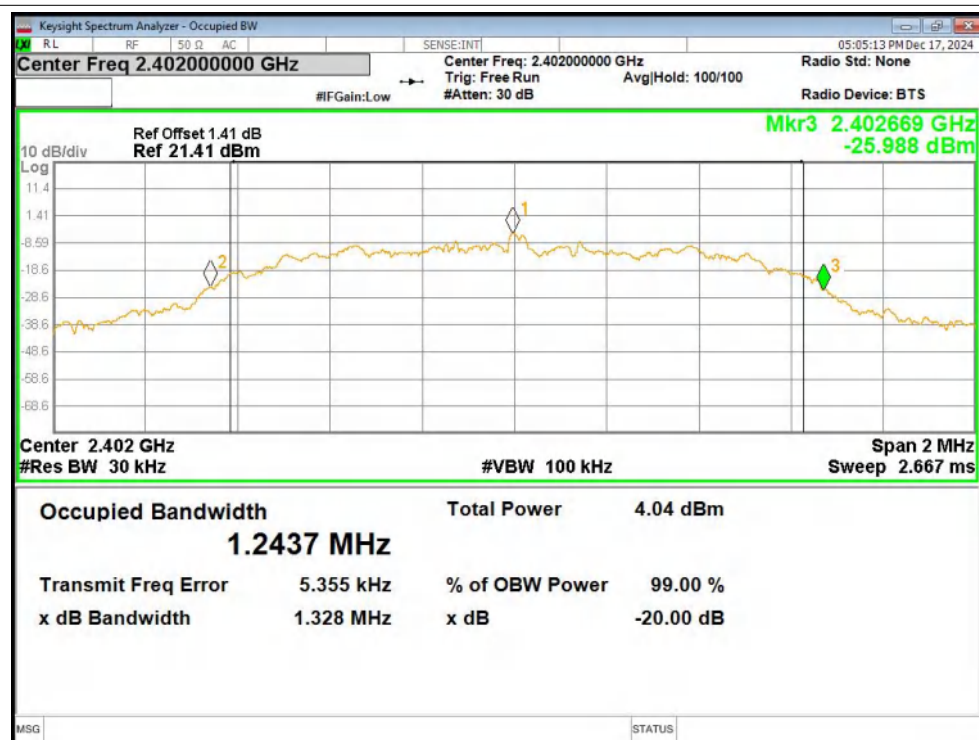
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



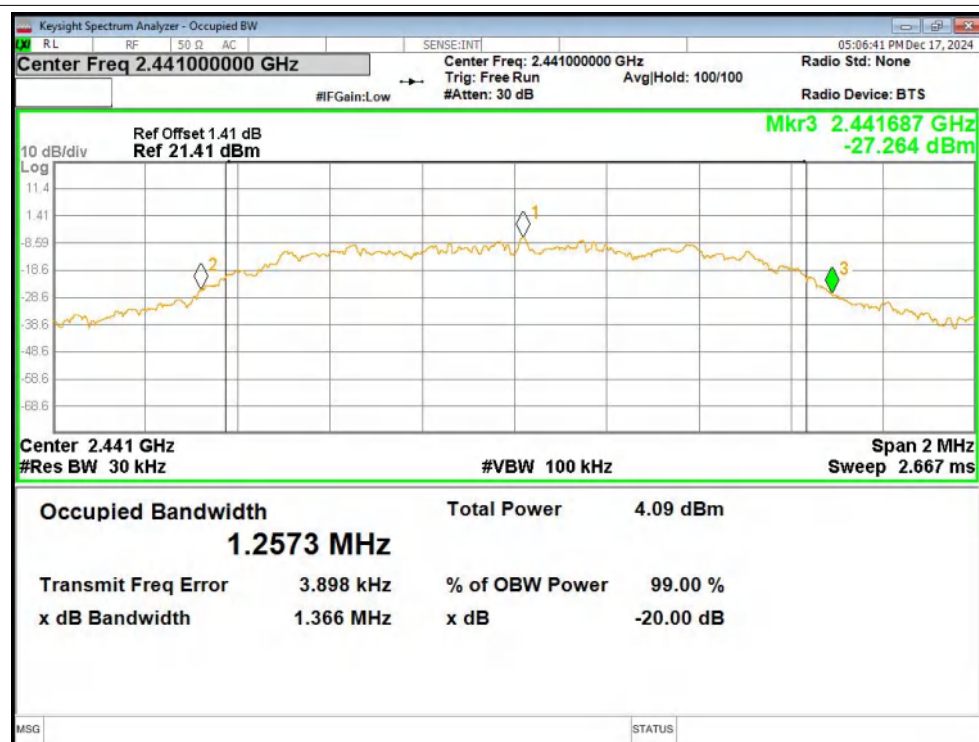
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



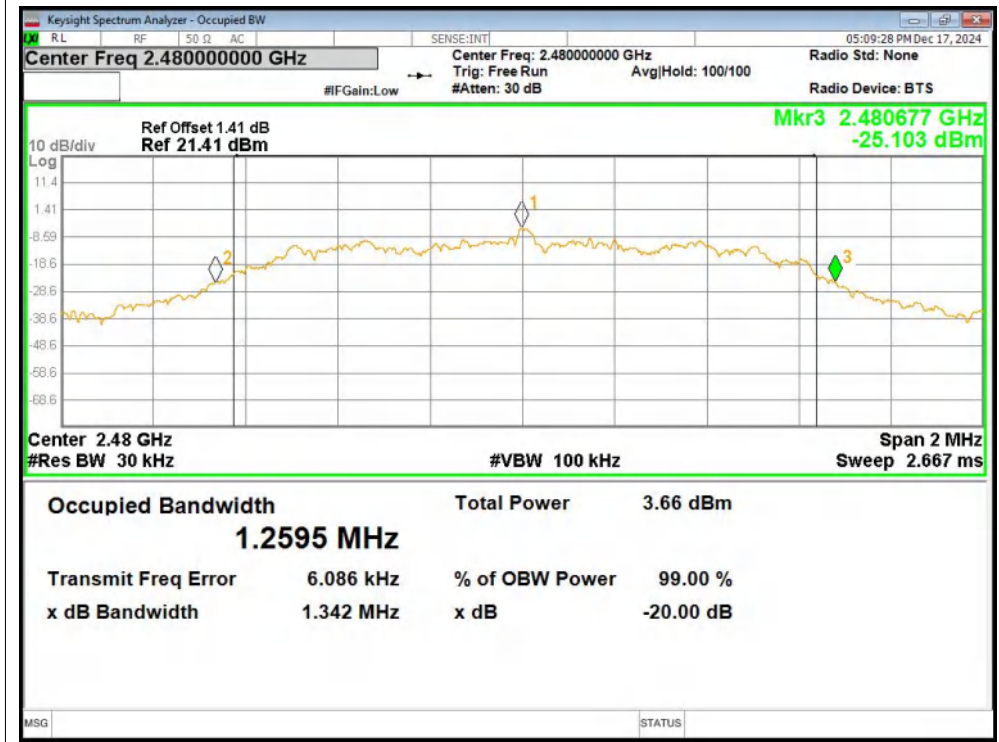
-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1

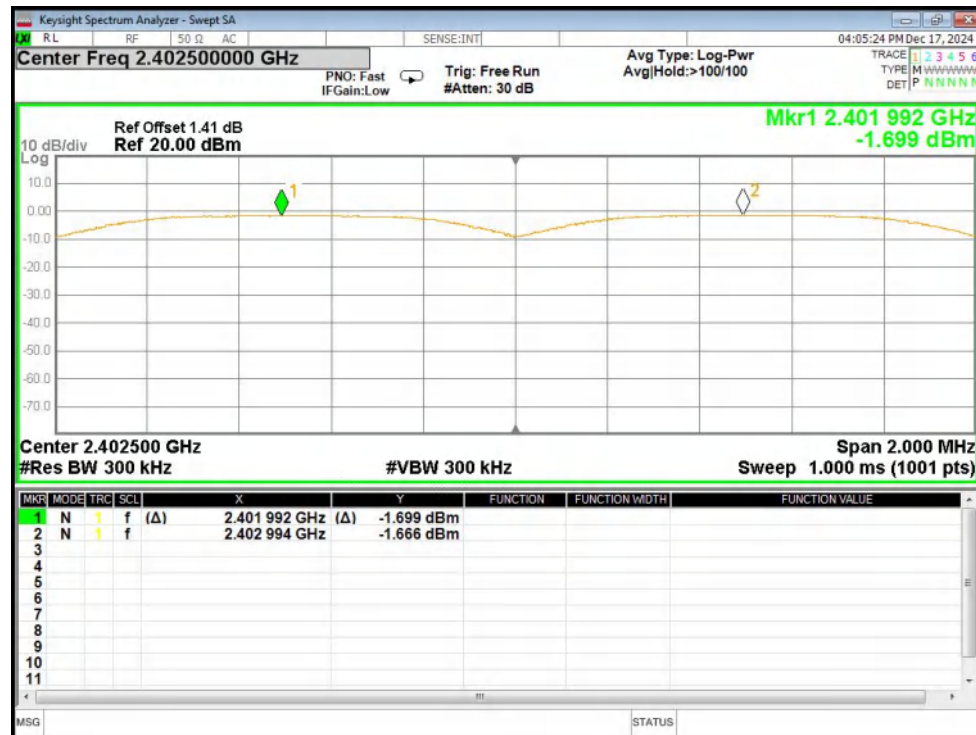


4.Carrier Frequencies Separation

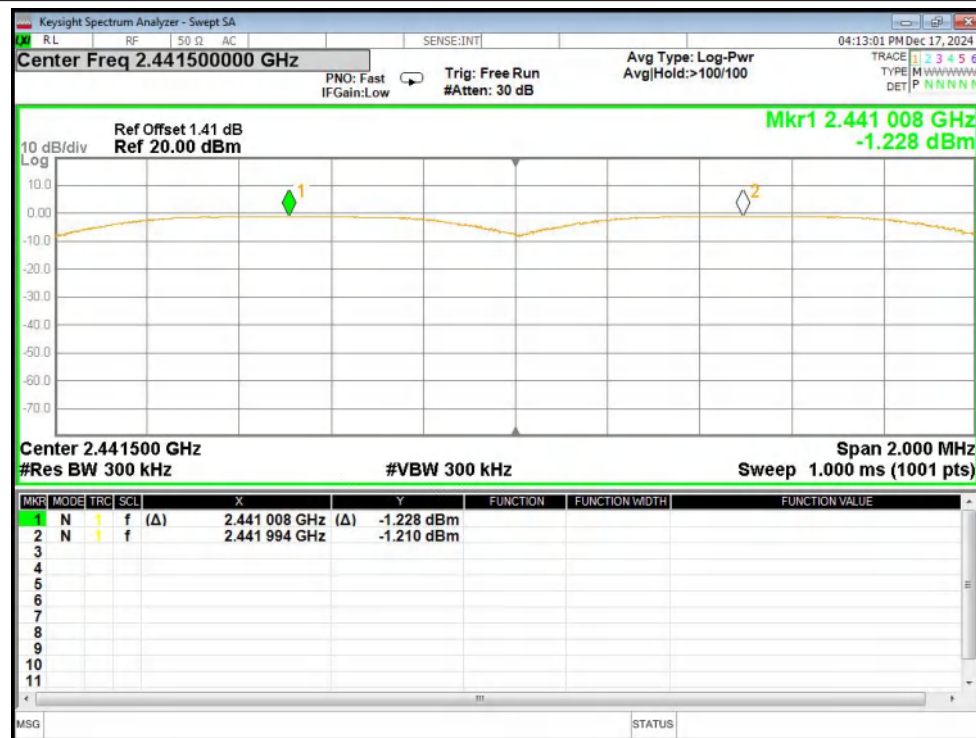
Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
1-DH5	2401.992	2402.994	1.002	0.695	Pass
1-DH5	2441.008	2441.994	0.986	0.711	Pass
1-DH5	2478.988	2480.002	1.014	0.7	Pass
2-DH5	2402	2402.99	0.99	0.882	Pass
2-DH5	2440.992	2442	1.008	0.891	Pass
2-DH5	2478.992	2479.984	0.992	0.91	Pass
3-DH5	2401.998	2402.992	0.994	0.885	Pass
3-DH5	2440.996	2442.002	1.006	0.911	Pass
3-DH5	2478.984	2479.996	1.012	0.895	Pass

Test Graphs

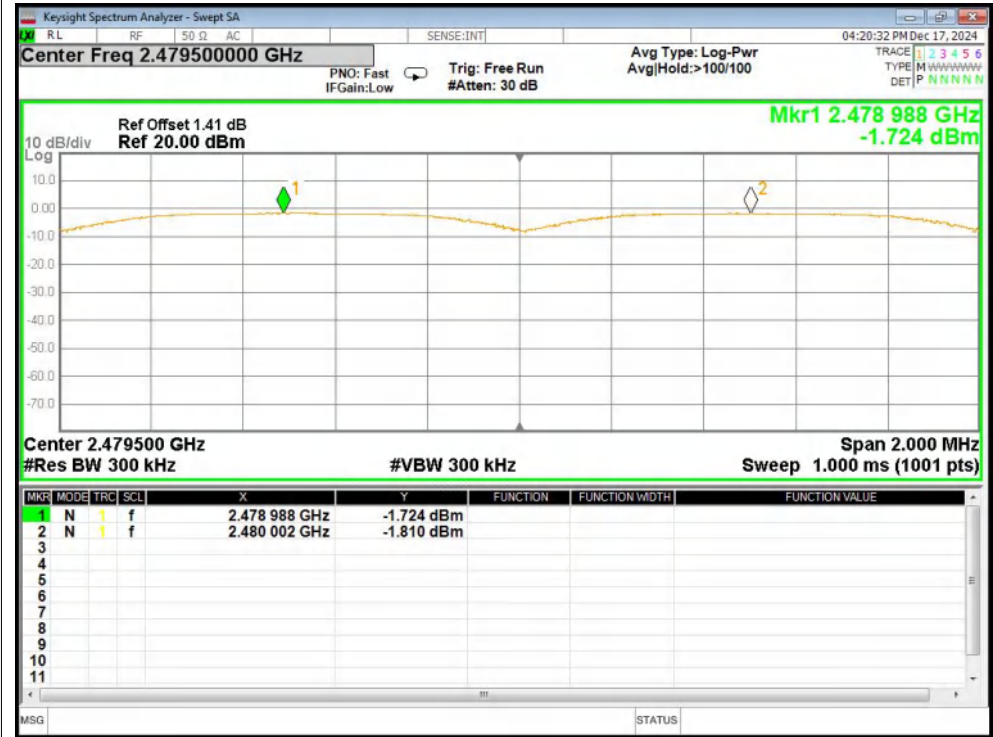
CFS NVNT 1-DH5 2402MHz Ant1



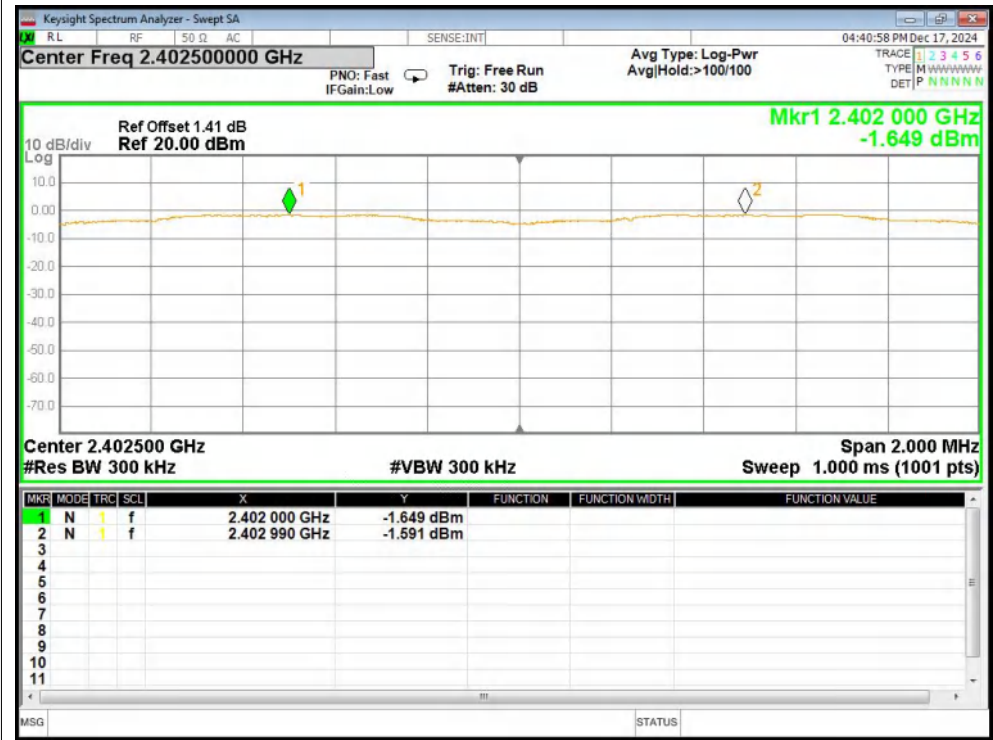
CFS NVNT 1-DH5 2441MHz Ant1



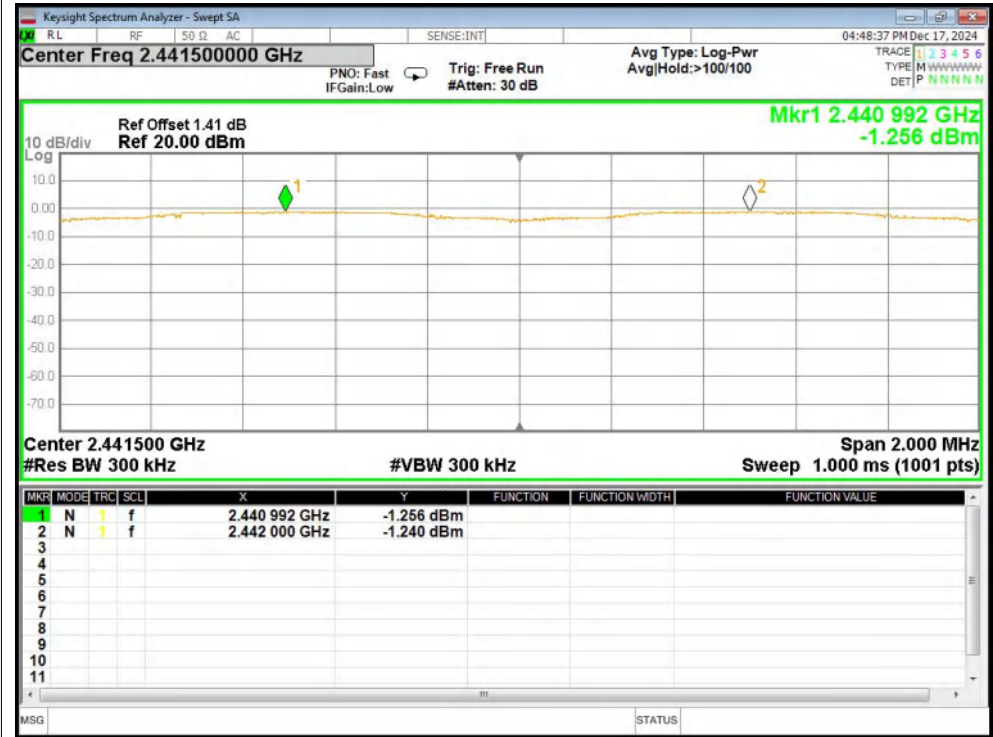
CFS NVNT 1-DH5 2480MHz Ant1



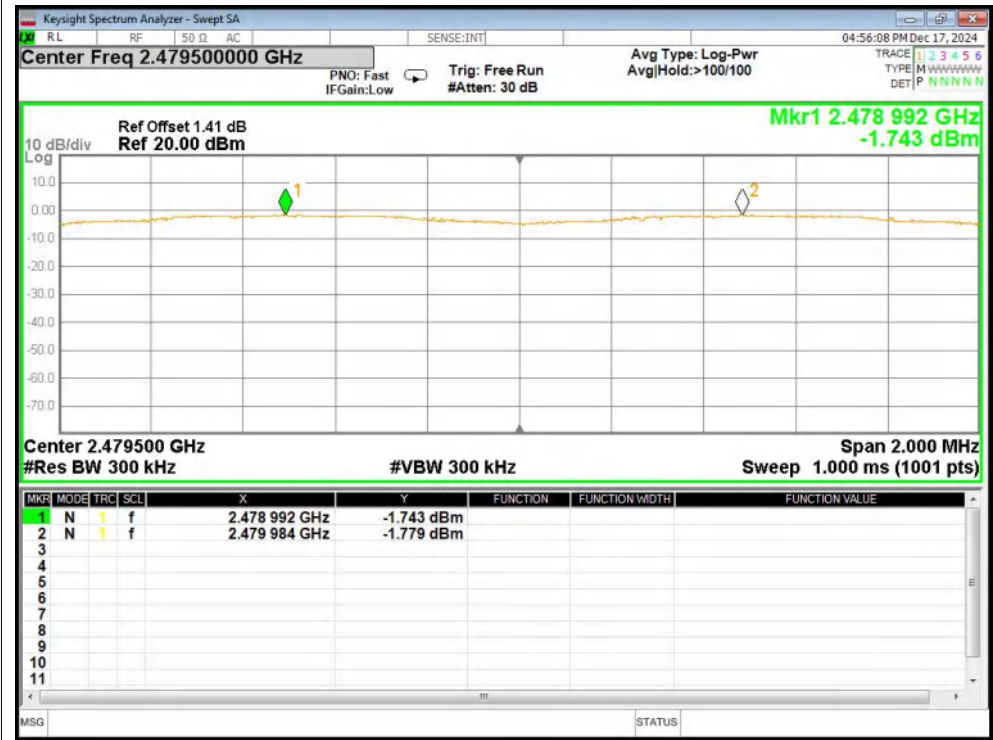
CFS NVNT 2-DH5 2402MHz Ant1



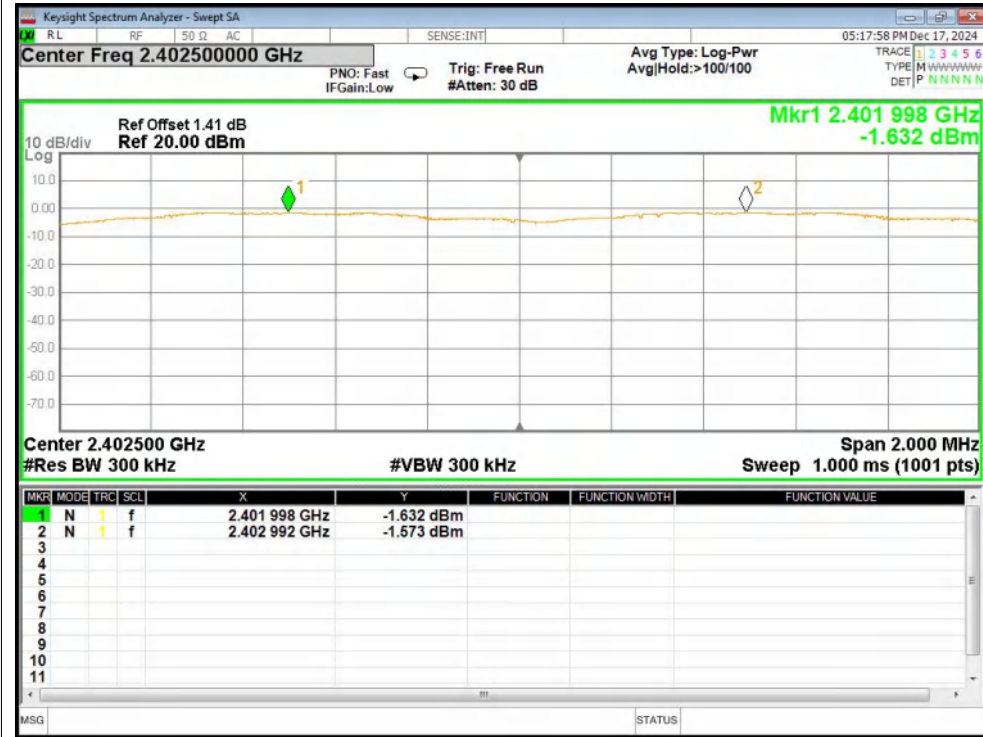
CFS NVNT 2-DH5 2441MHz Ant1



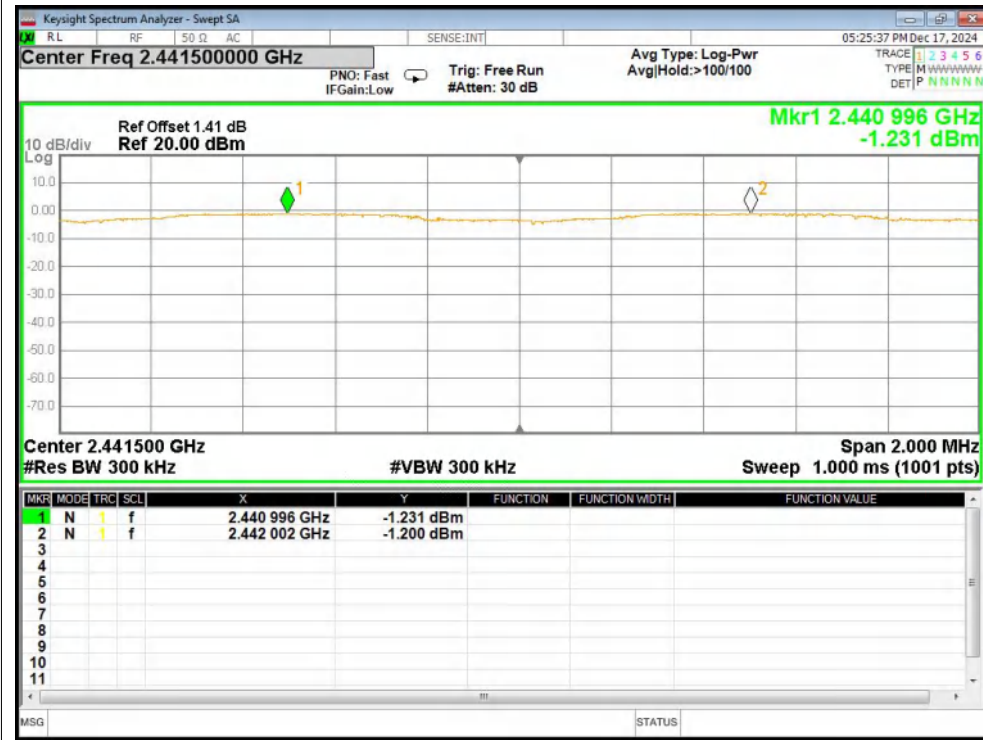
CFS NVNT 2-DH5 2480MHz Ant1



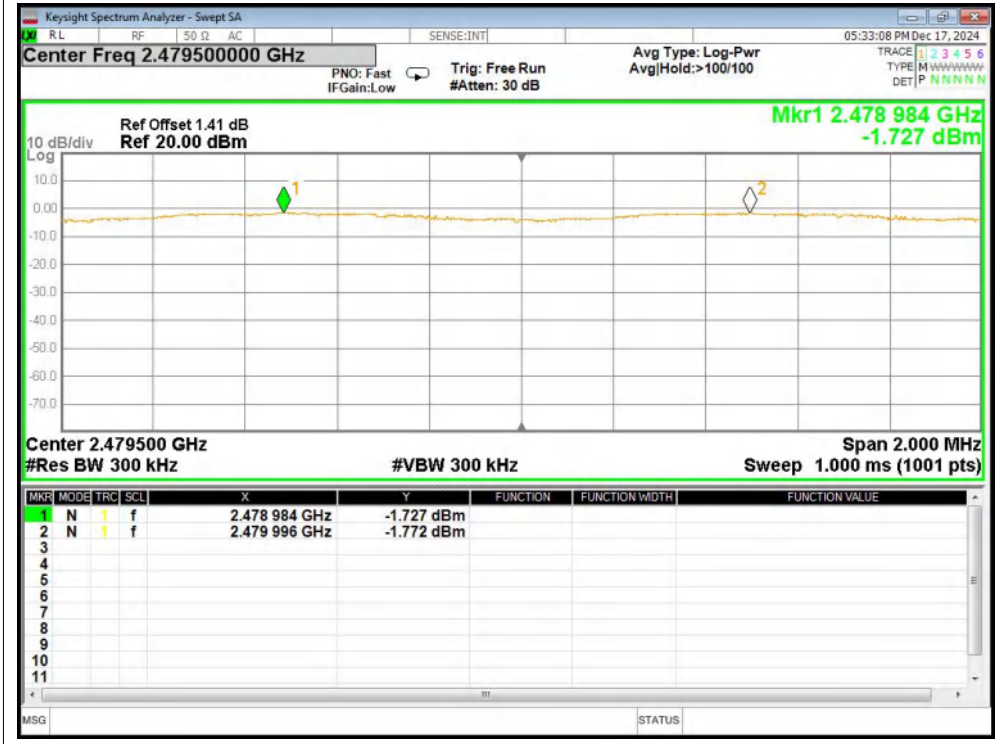
CFS NVNT 3-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2441MHz Ant1

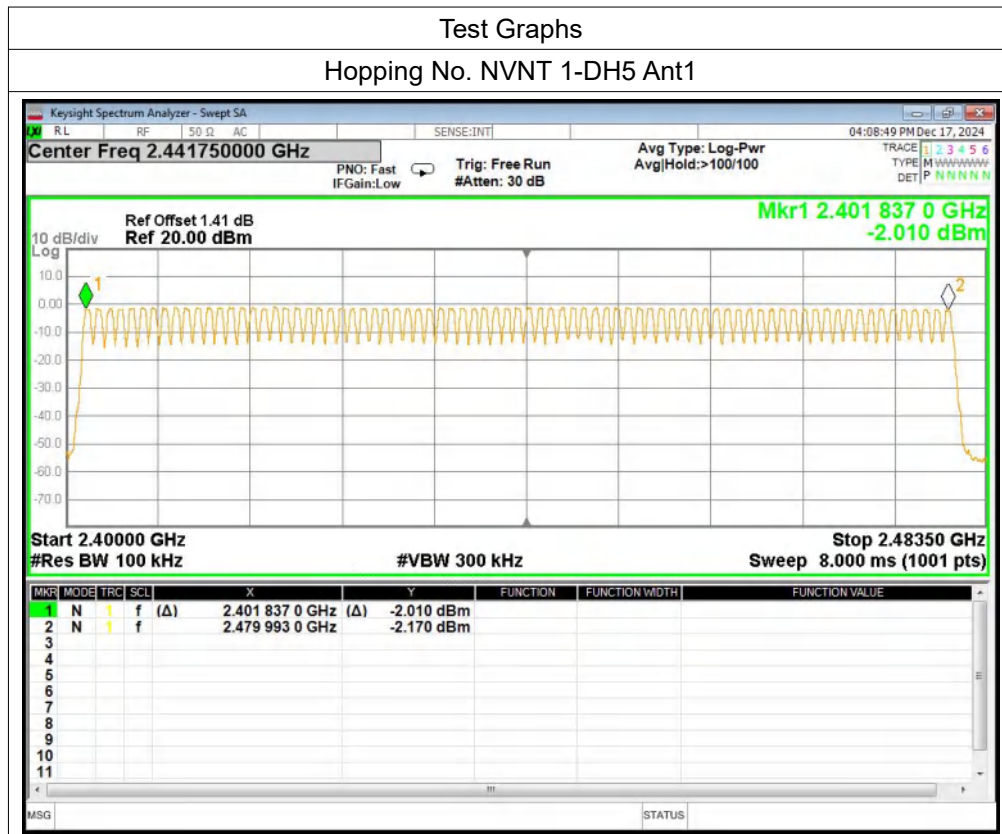


CFS NVNT 3-DH5 2480MHz Ant1



5. Number of Hopping Channel

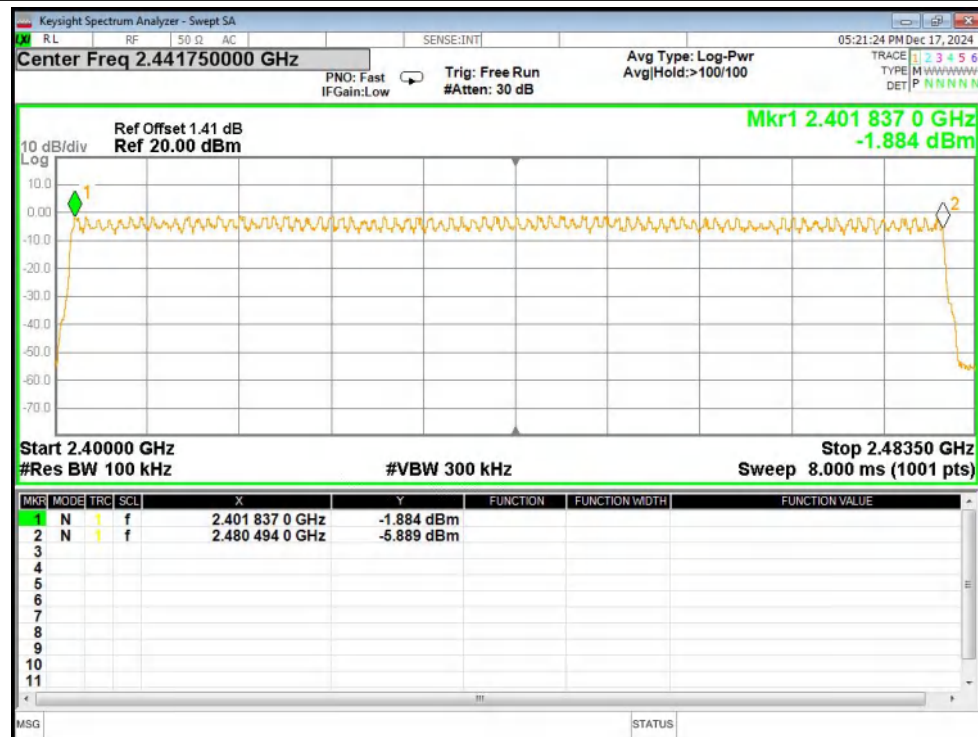
Mode	Hopping Number	Limit	Verdict
1-DH5	79	15	Pass
2-DH5	79	15	Pass
3-DH5	79	15	Pass



Hopping No. NVNT 2-DH5 Ant1



Hopping No. NVNT 3-DH5 Ant1

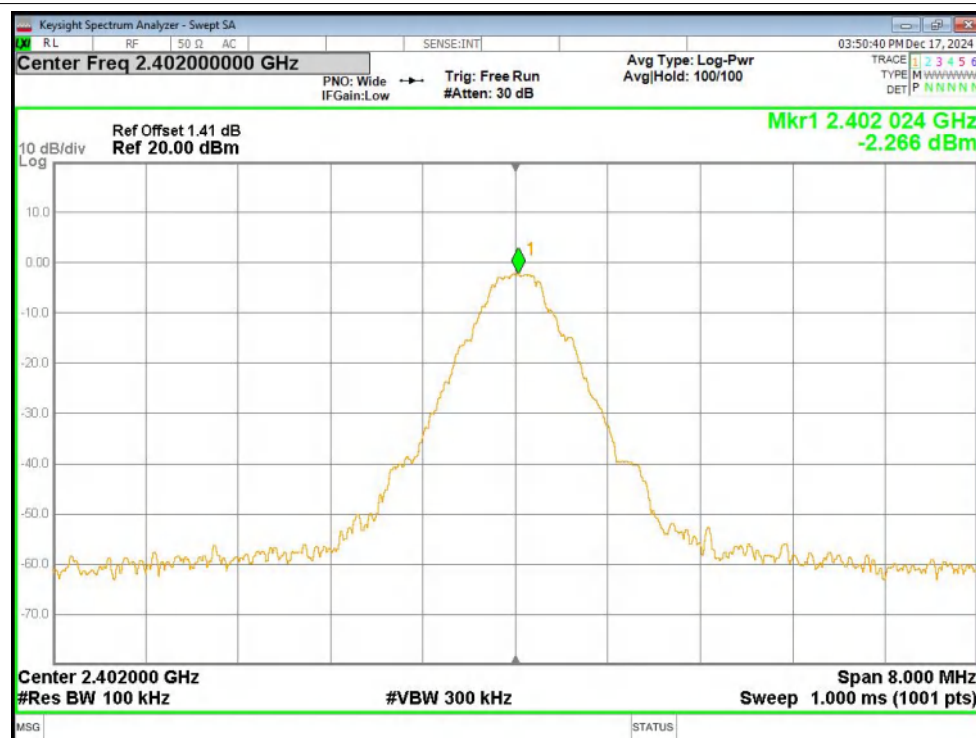


6.Band Edge

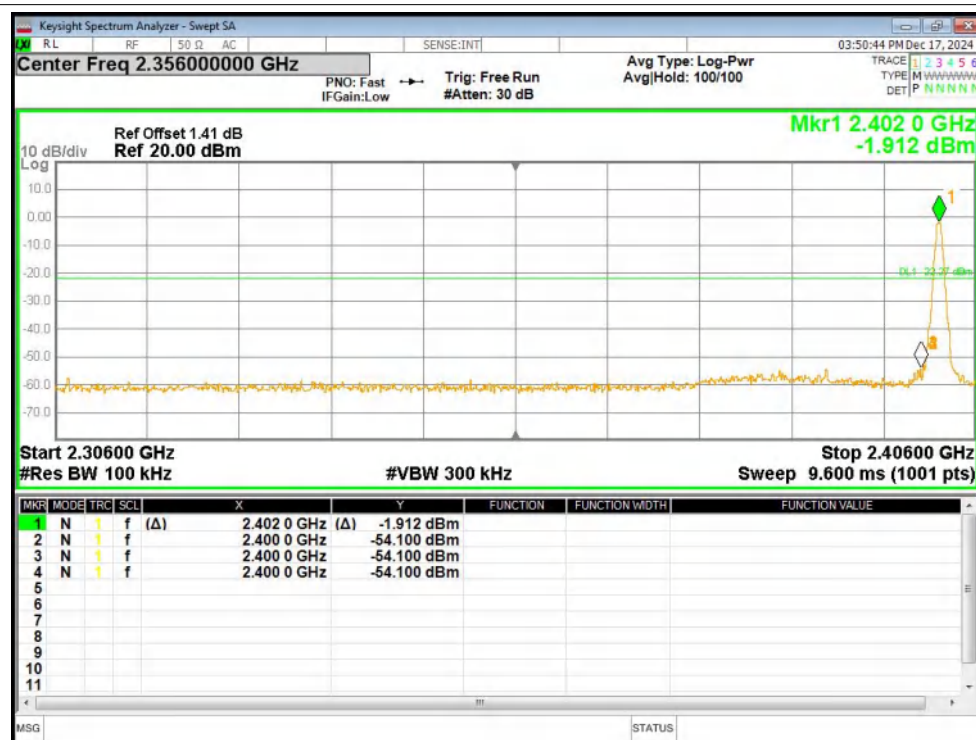
Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	No-Hopping	-51.82	-20	Pass
1-DH5	2480	No-Hopping	-54.09	-20	Pass
2-DH5	2402	No-Hopping	-49.05	-20	Pass
2-DH5	2480	No-Hopping	-53.54	-20	Pass
3-DH5	2402	No-Hopping	-48.68	-20	Pass
3-DH5	2480	No-Hopping	-53.47	-20	Pass

Test Graphs

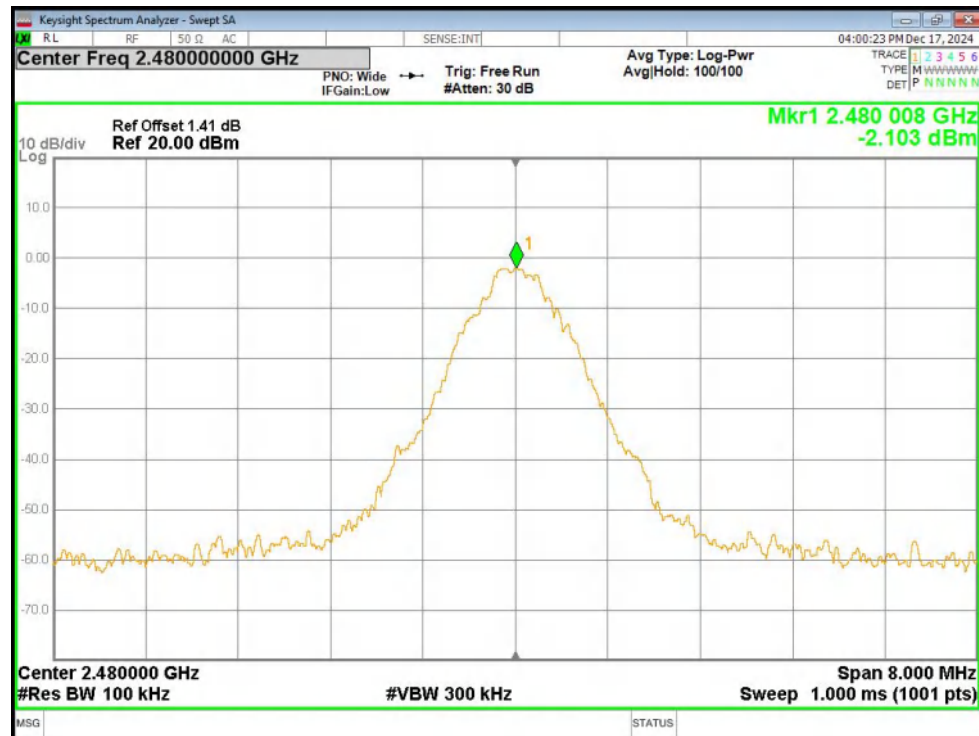
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



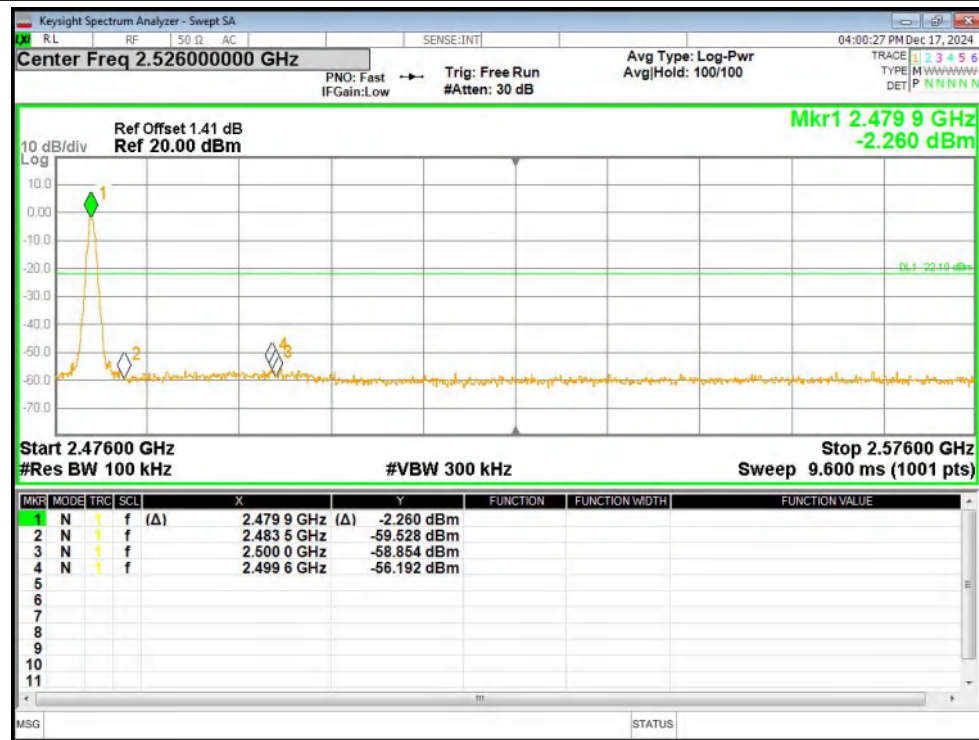
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



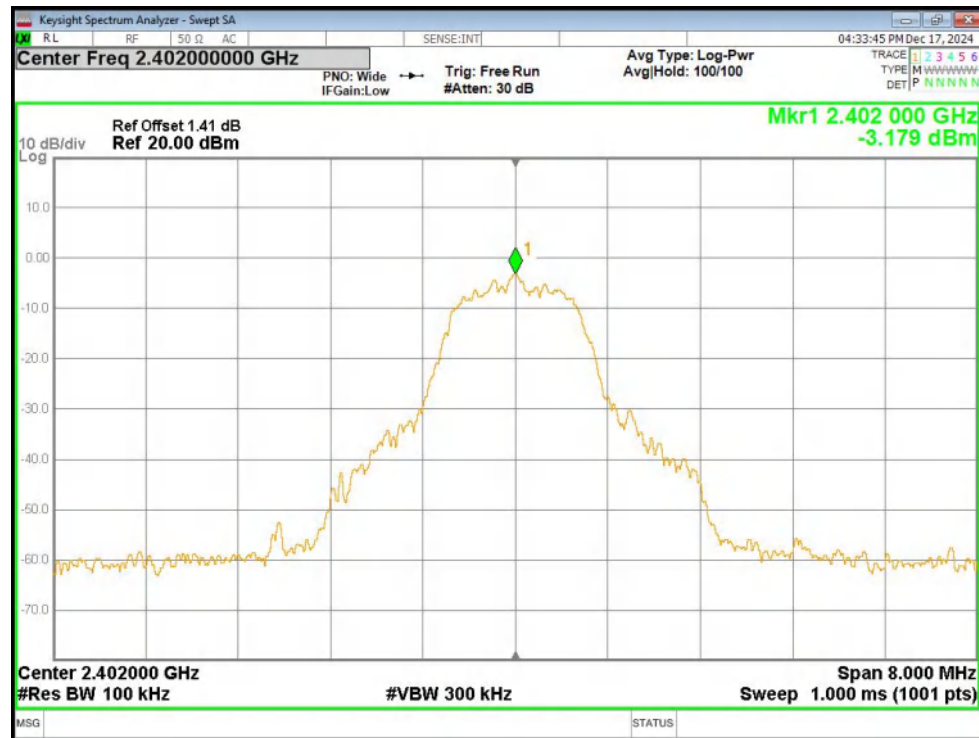
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



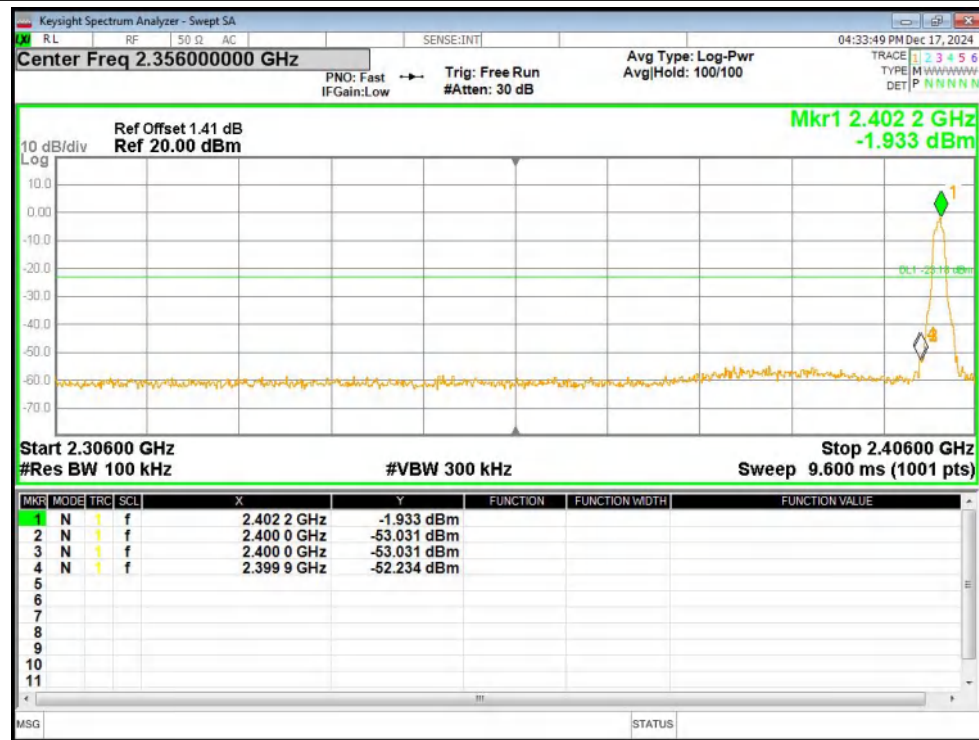
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



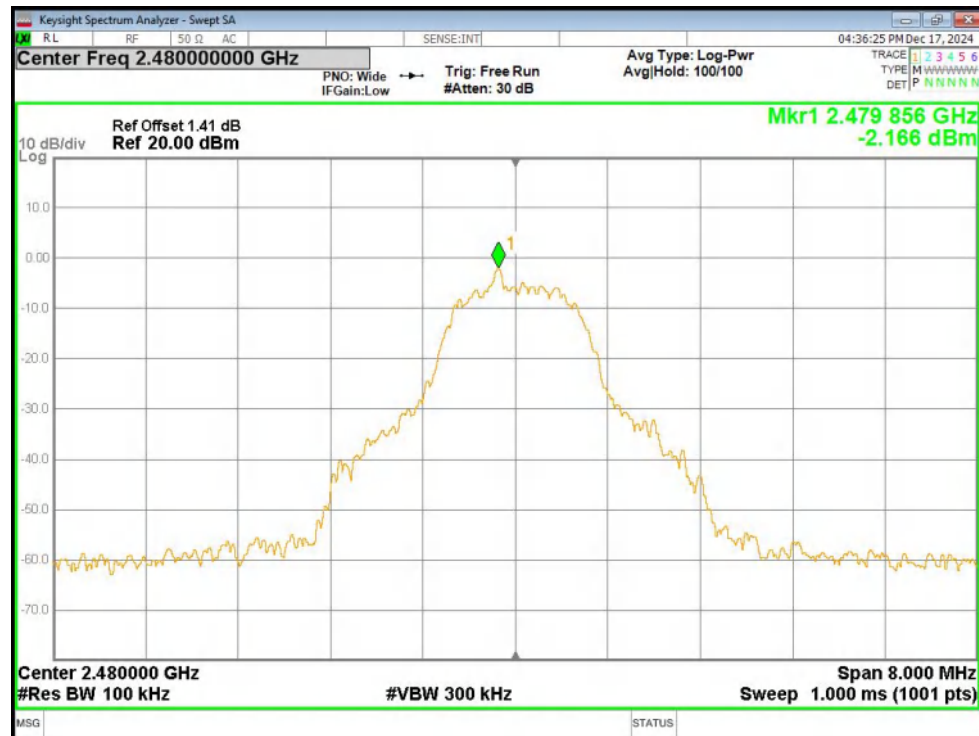
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



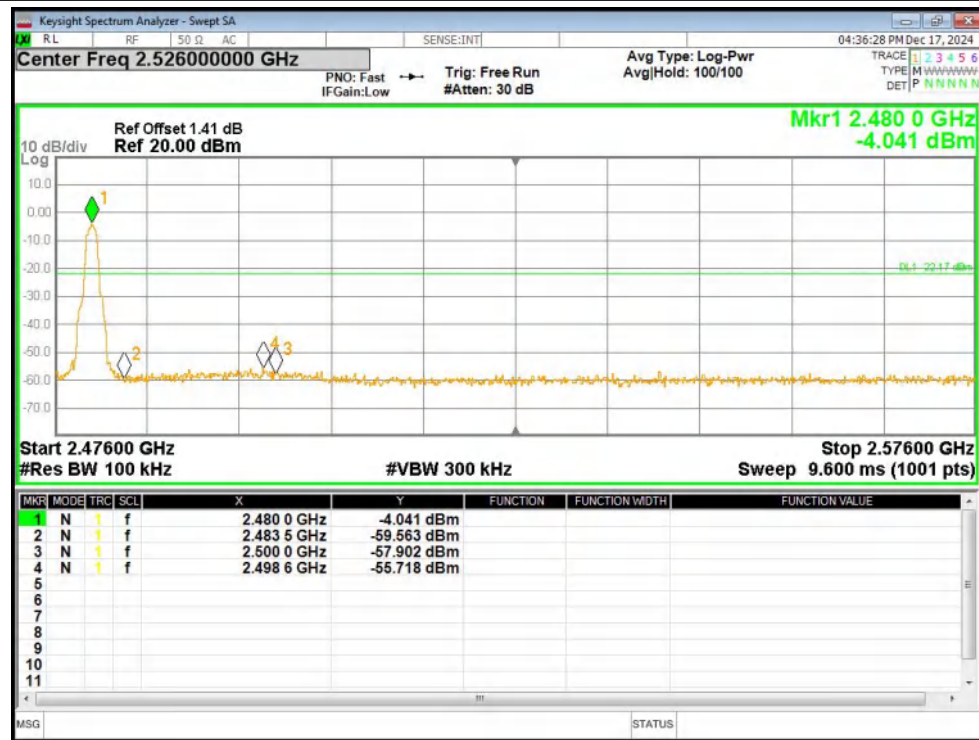
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



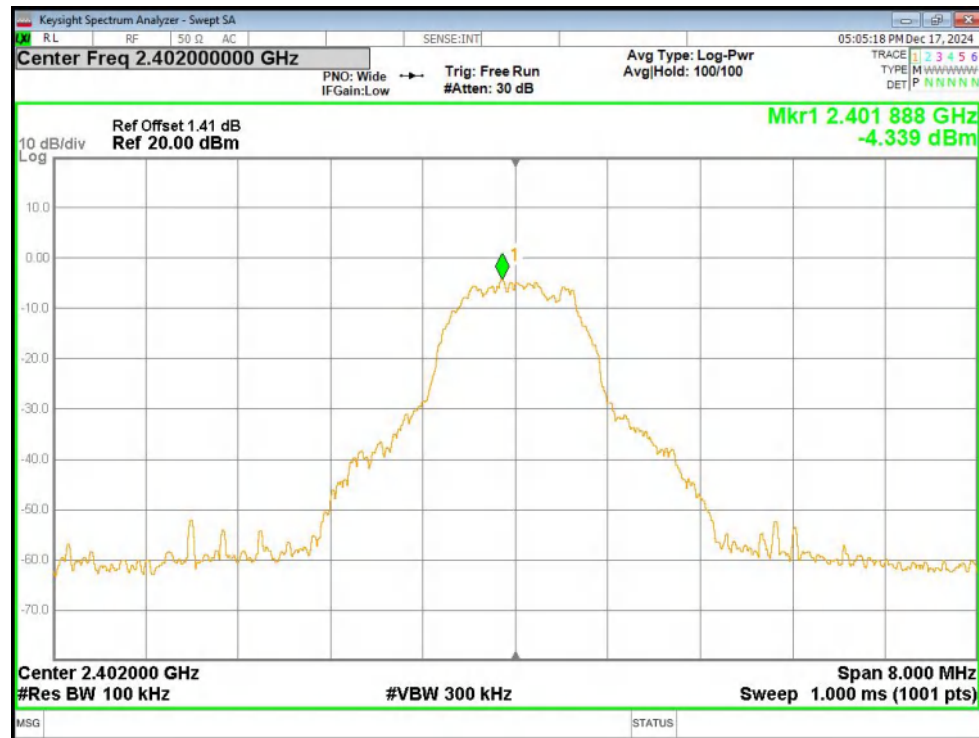
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



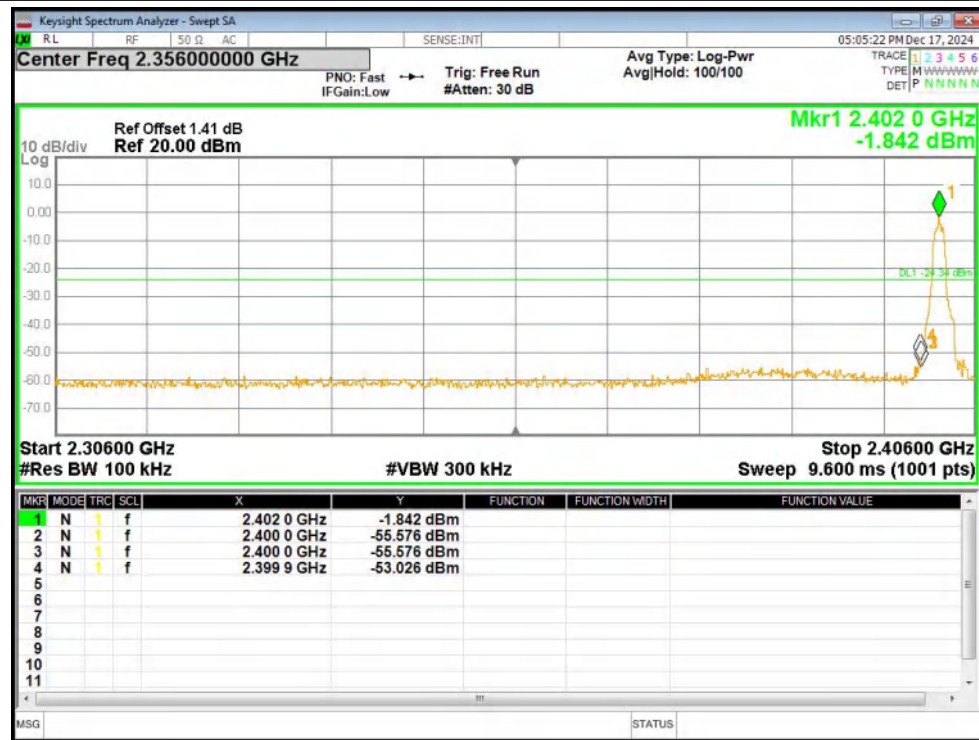
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



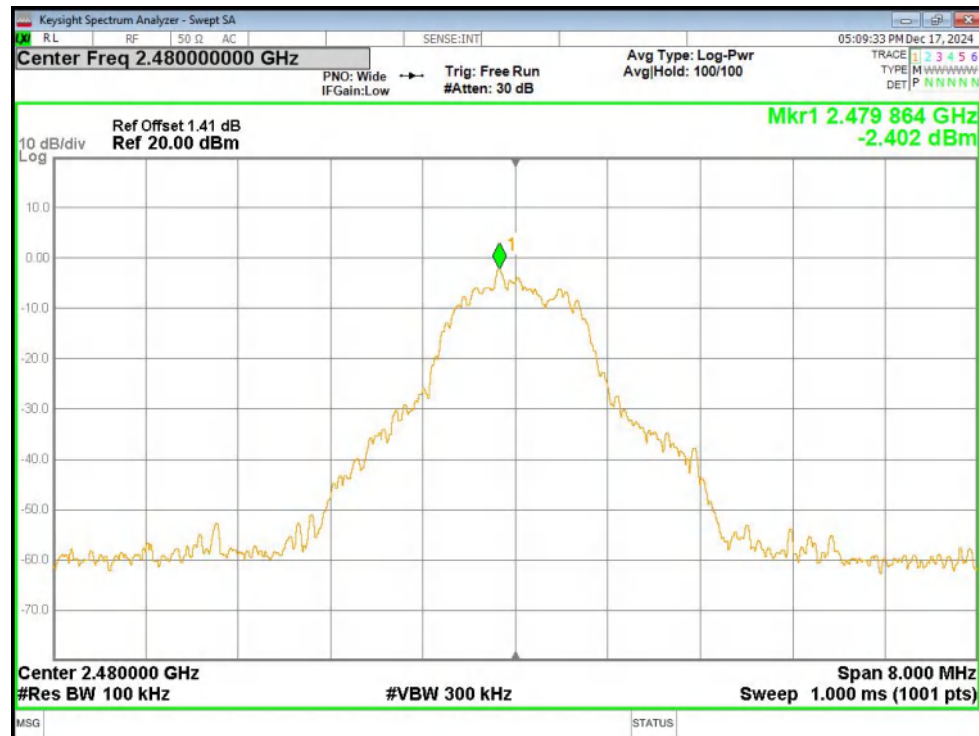
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



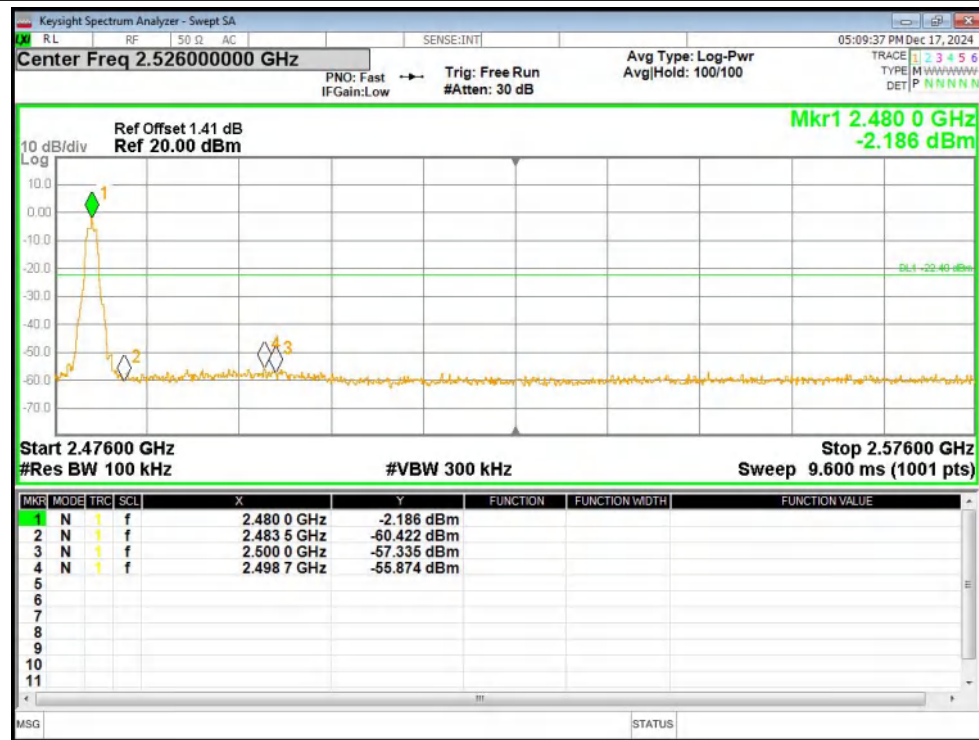
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



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



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

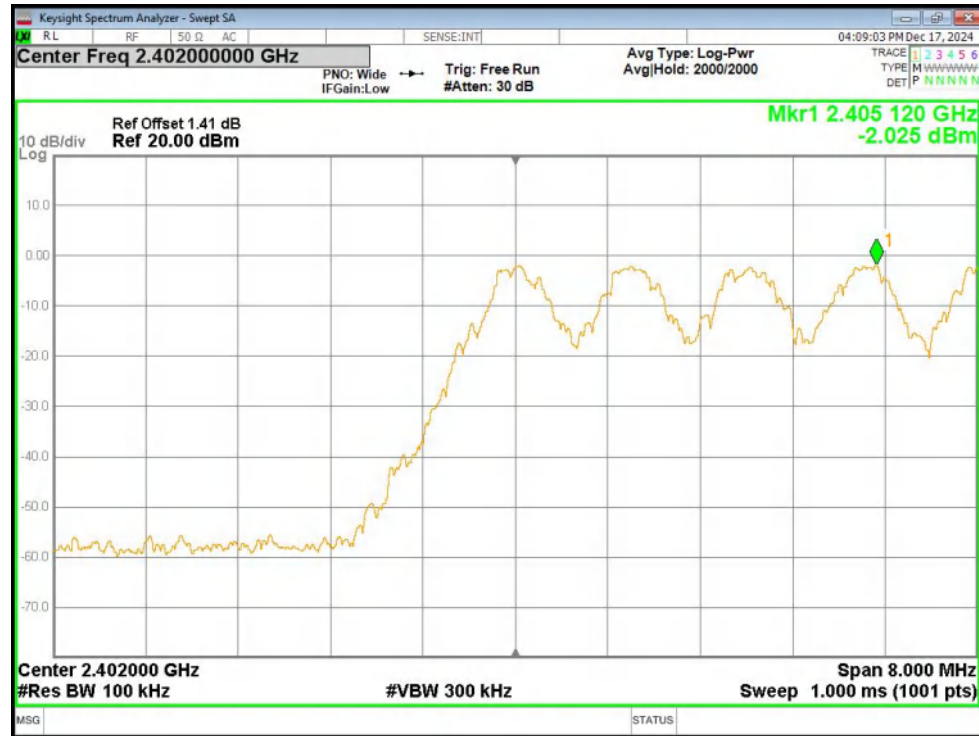


7.Band Edge(Hopping)

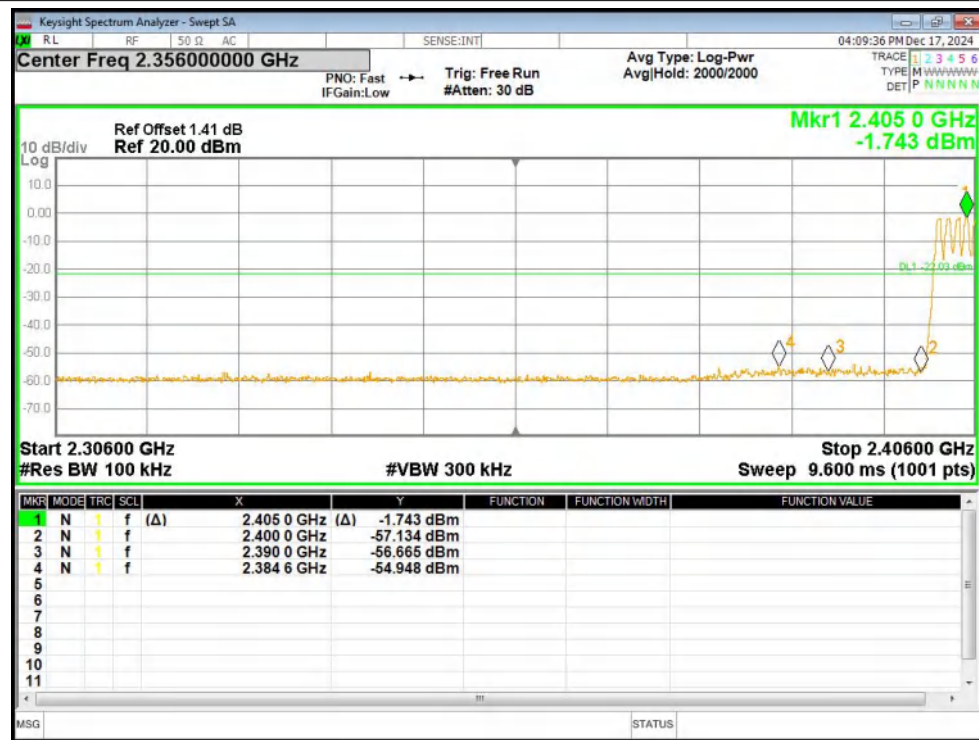
Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	Hopping	-52.92	-20	Pass
1-DH5	2480	Hopping	-53.13	-20	Pass
2-DH5	2402	Hopping	-53.15	-20	Pass
2-DH5	2480	Hopping	-51.05	-20	Pass
3-DH5	2402	Hopping	-52.5	-20	Pass
3-DH5	2480	Hopping	-53.19	-20	Pass

Test Graphs

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



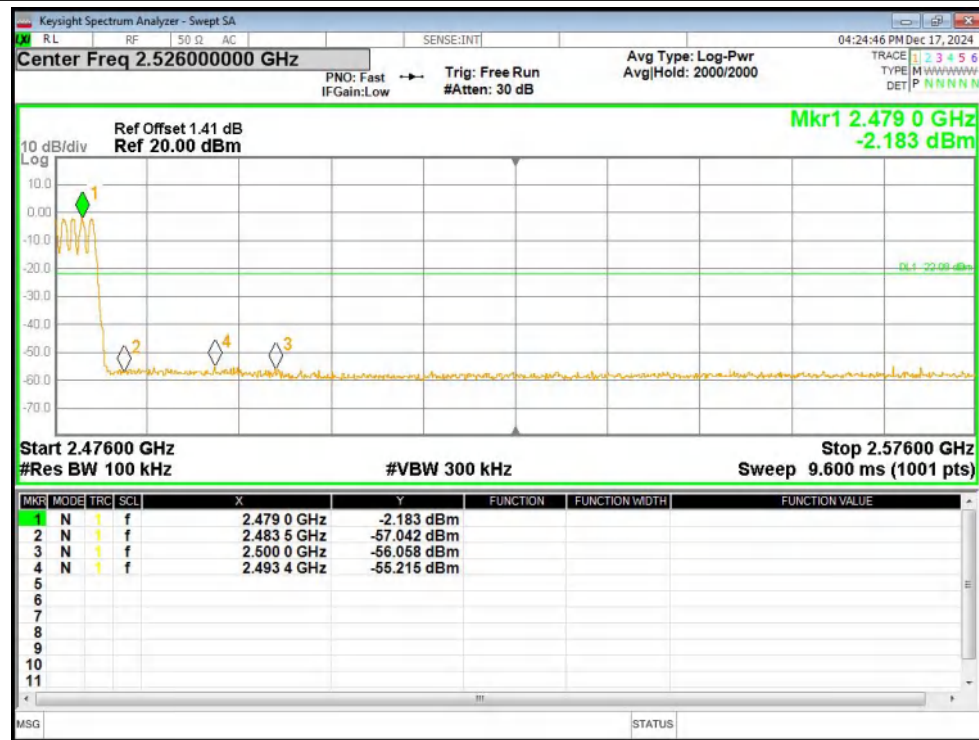
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



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



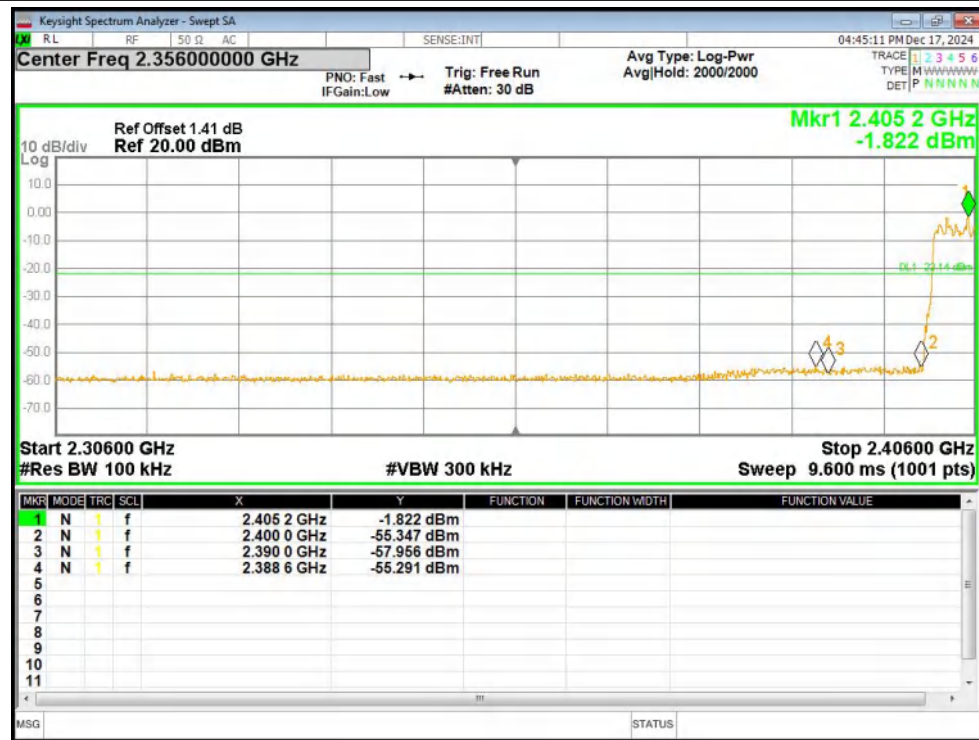
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



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



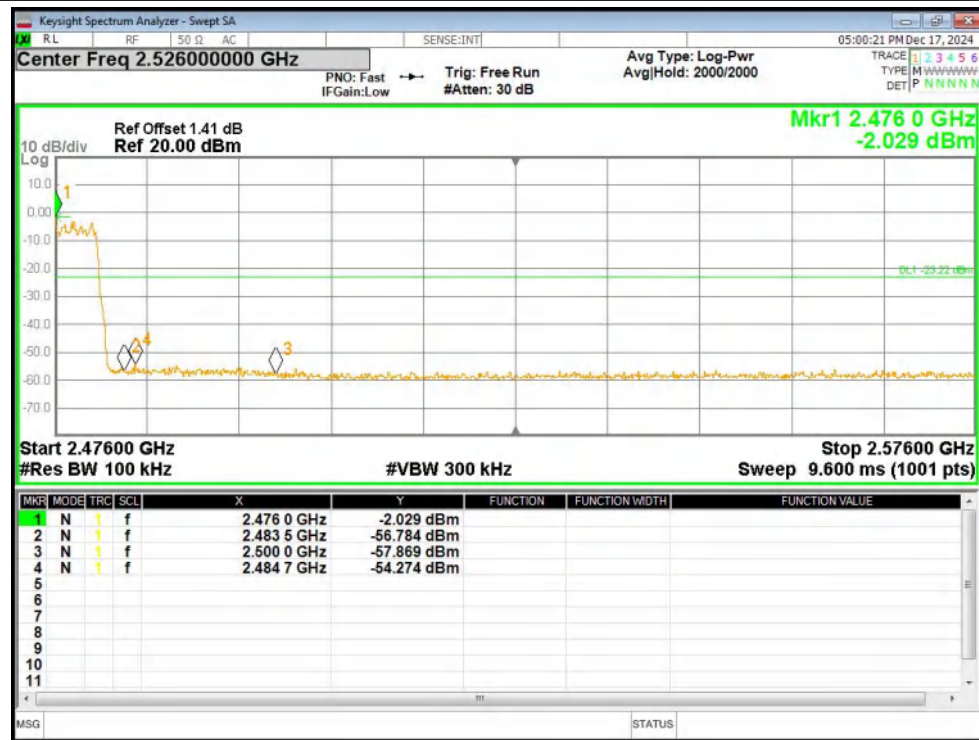
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



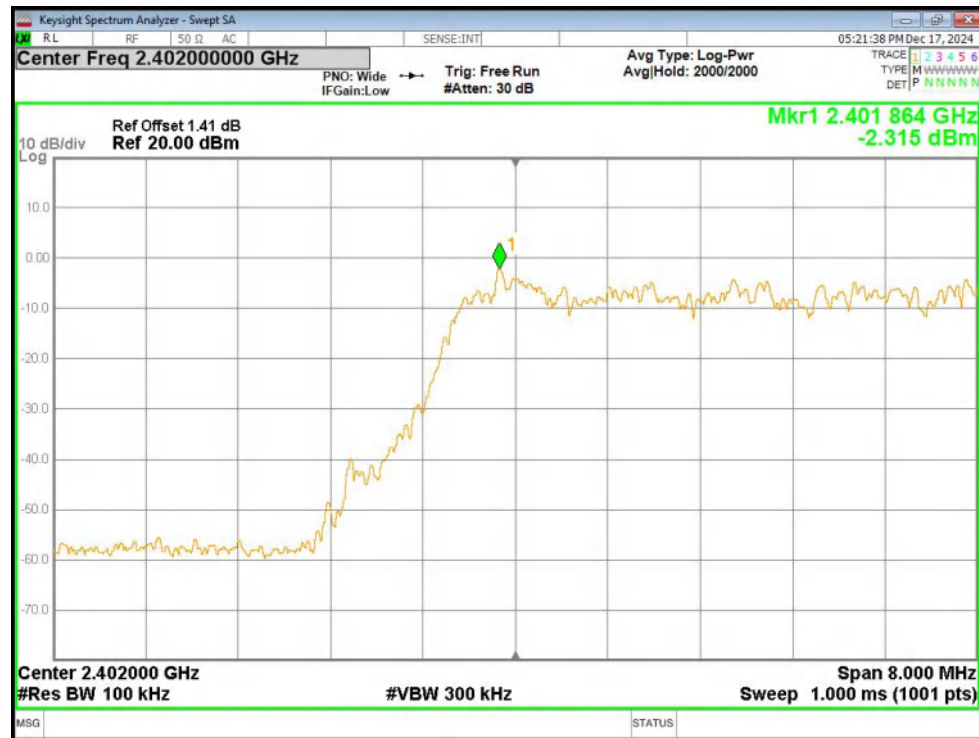
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



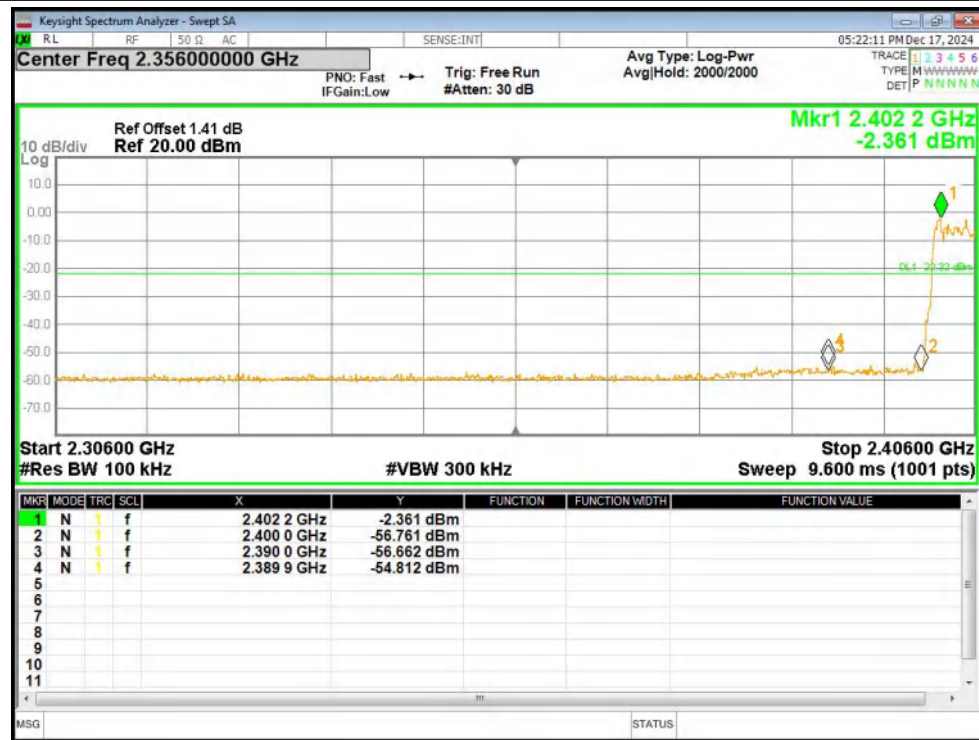
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



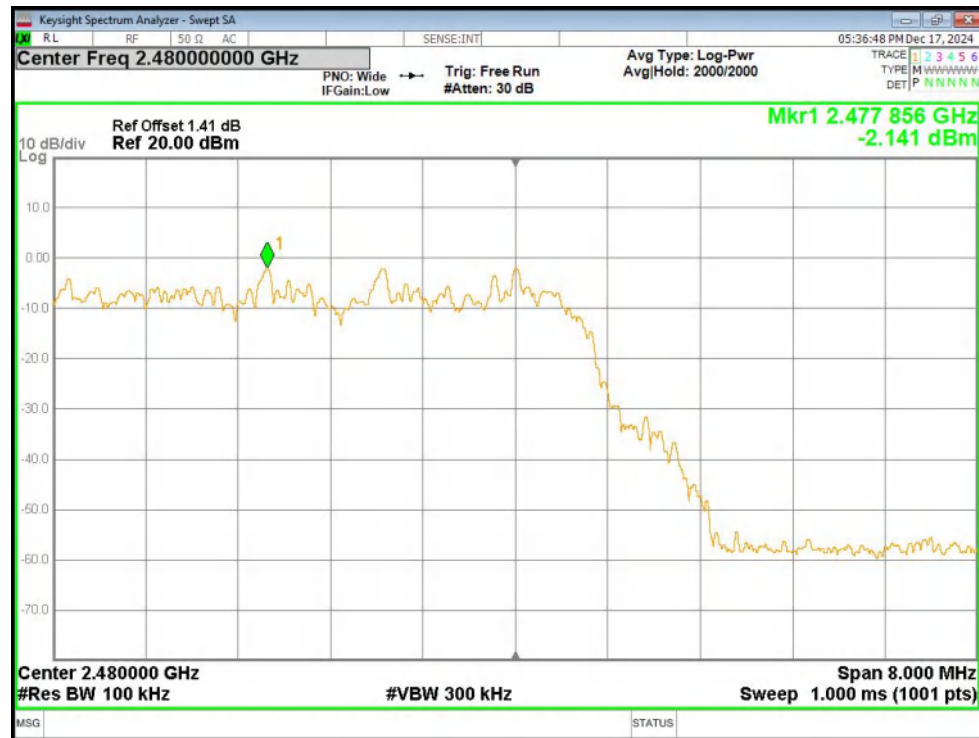
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



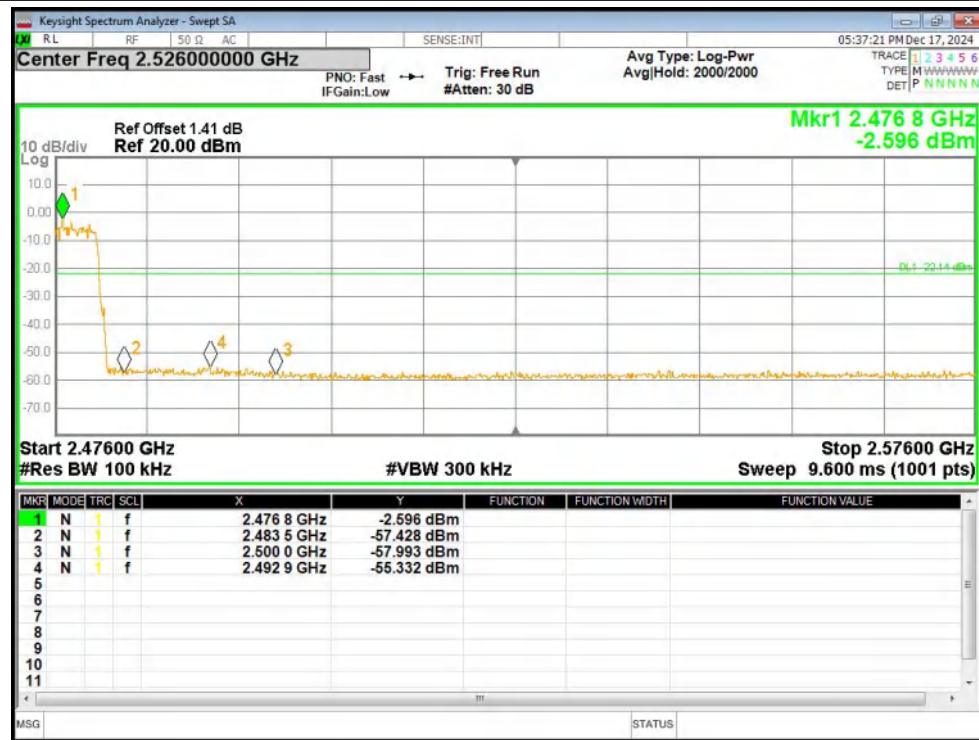
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



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



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

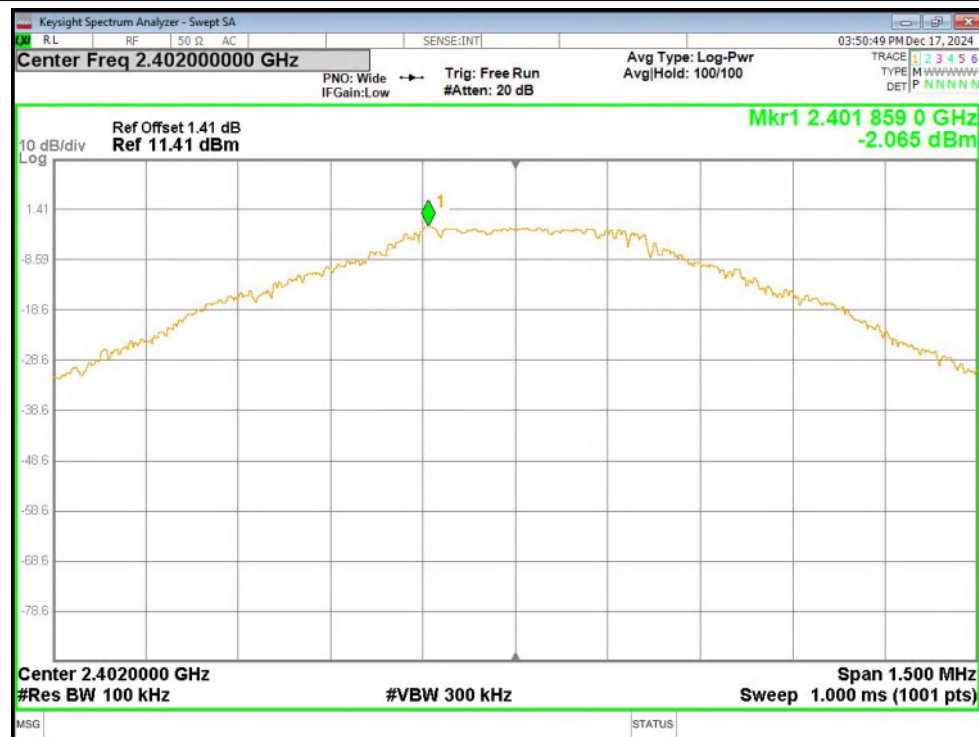


8. Conducted RF Spurious Emission

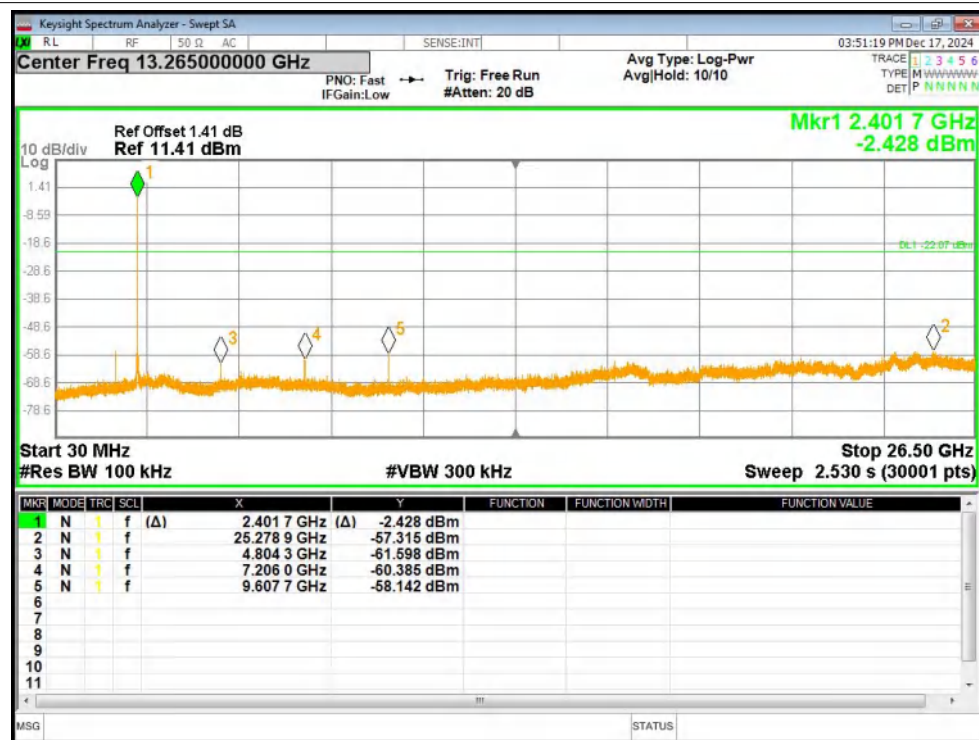
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	-55.25	-20	Pass
1-DH5	2441	-53.9	-20	Pass
1-DH5	2480	-53.35	-20	Pass
2-DH5	2402	-54.28	-20	Pass
2-DH5	2441	-53.26	-20	Pass
2-DH5	2480	-50.62	-20	Pass
3-DH5	2402	-55.36	-20	Pass
3-DH5	2441	-52.53	-20	Pass
3-DH5	2480	-50.99	-20	Pass

Test Graphs

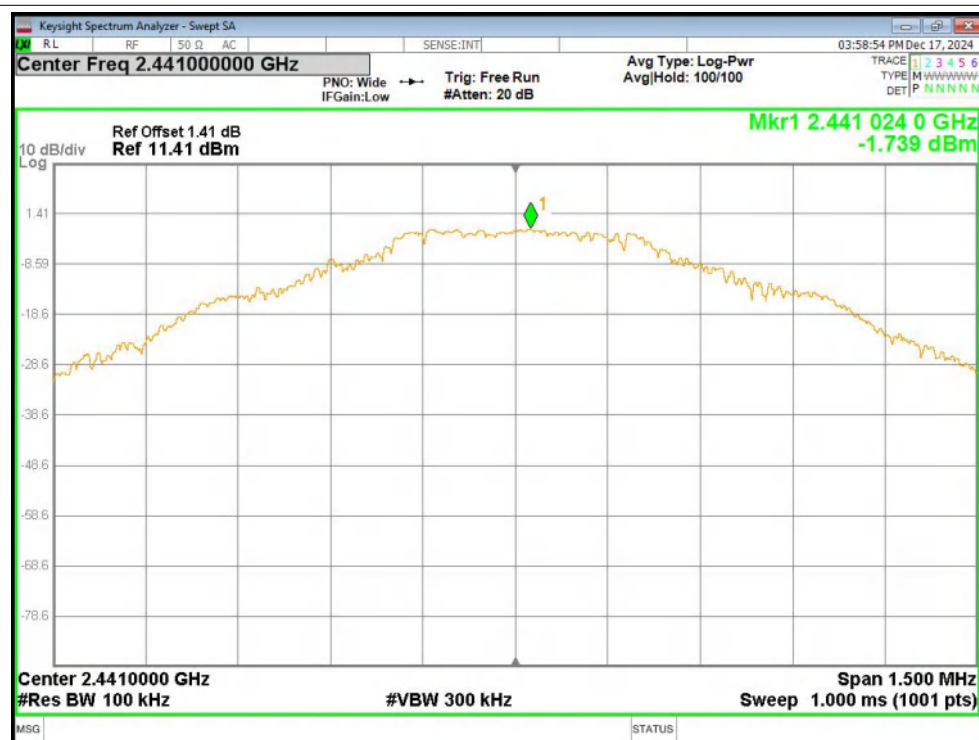
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



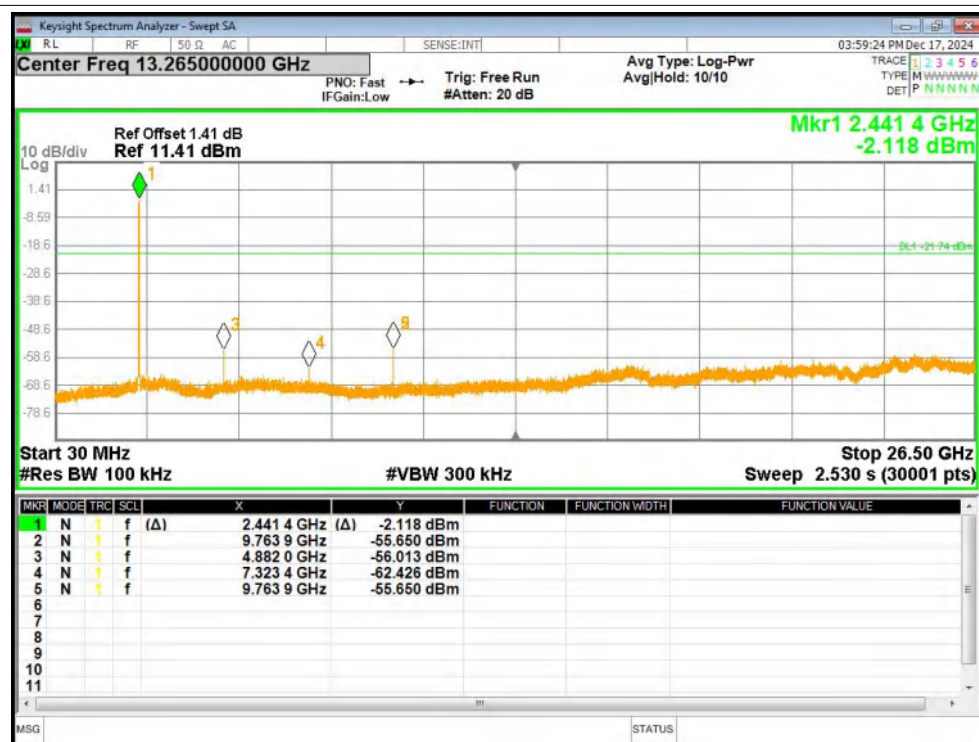
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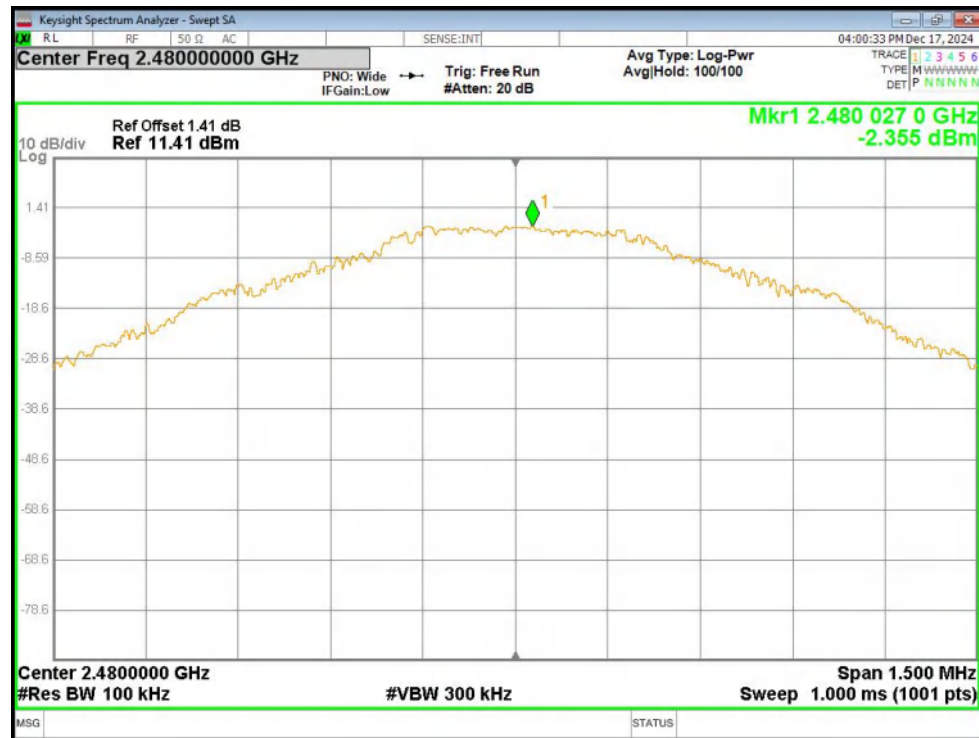
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



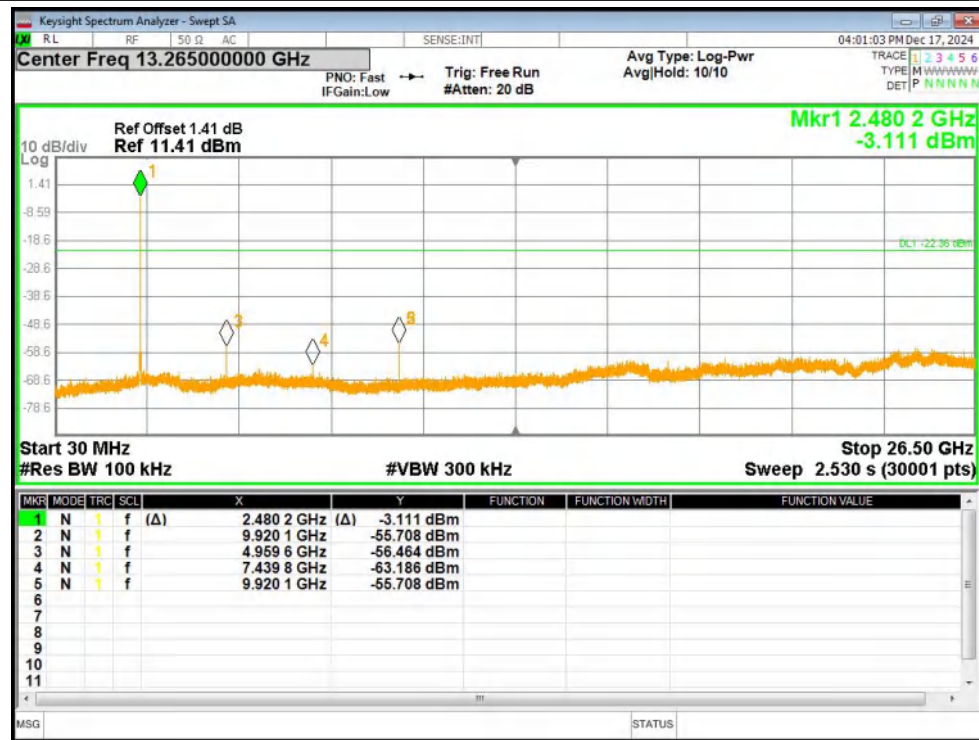
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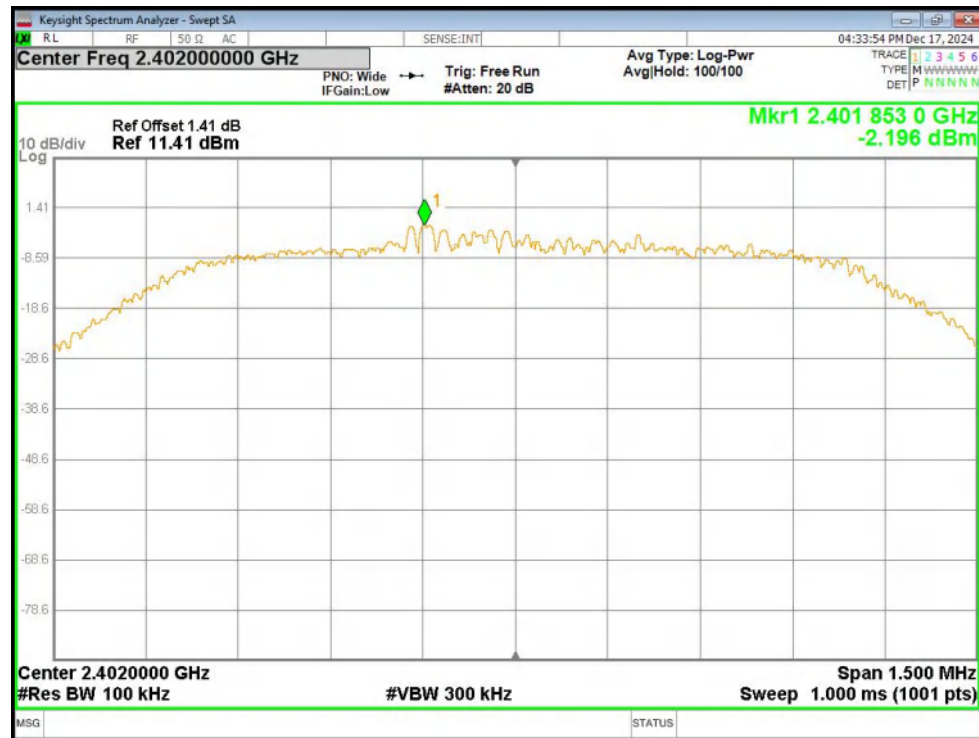
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



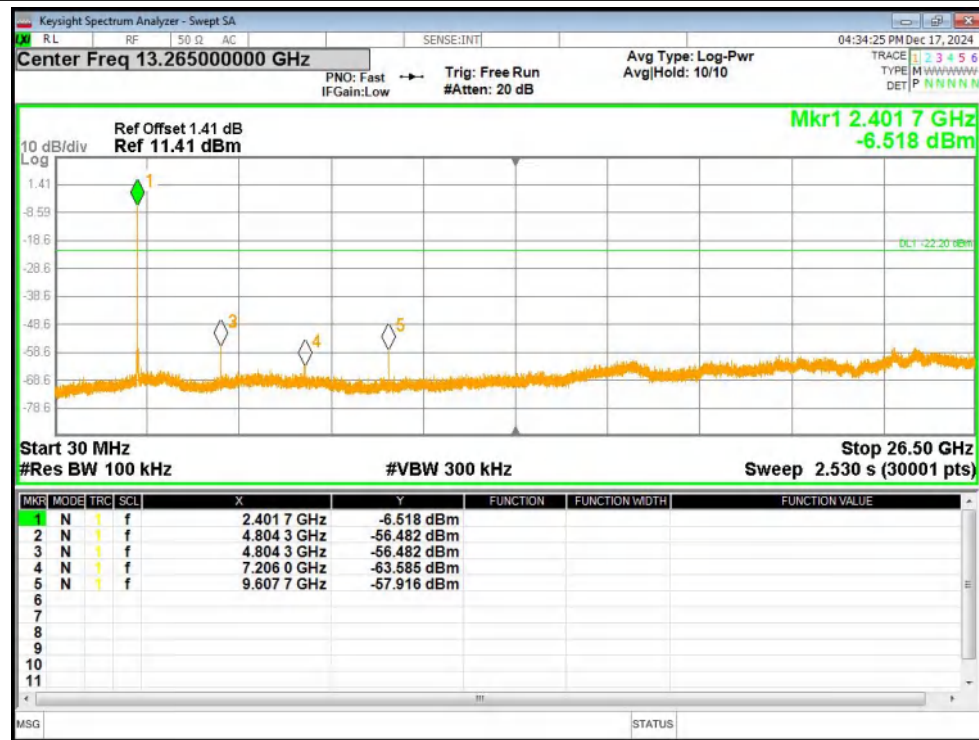
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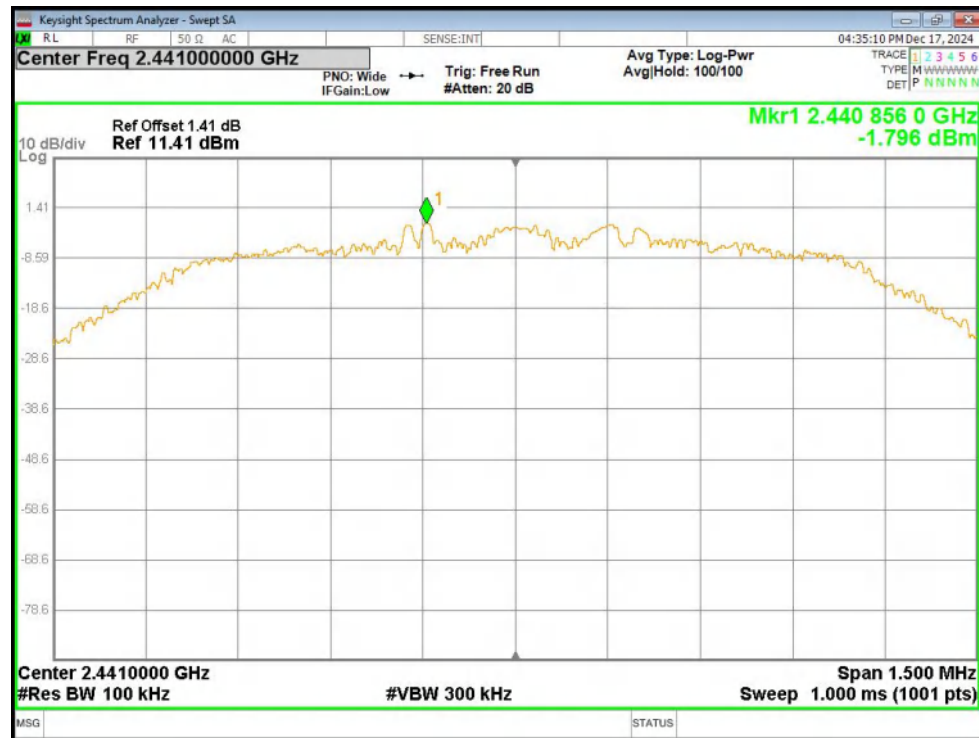
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



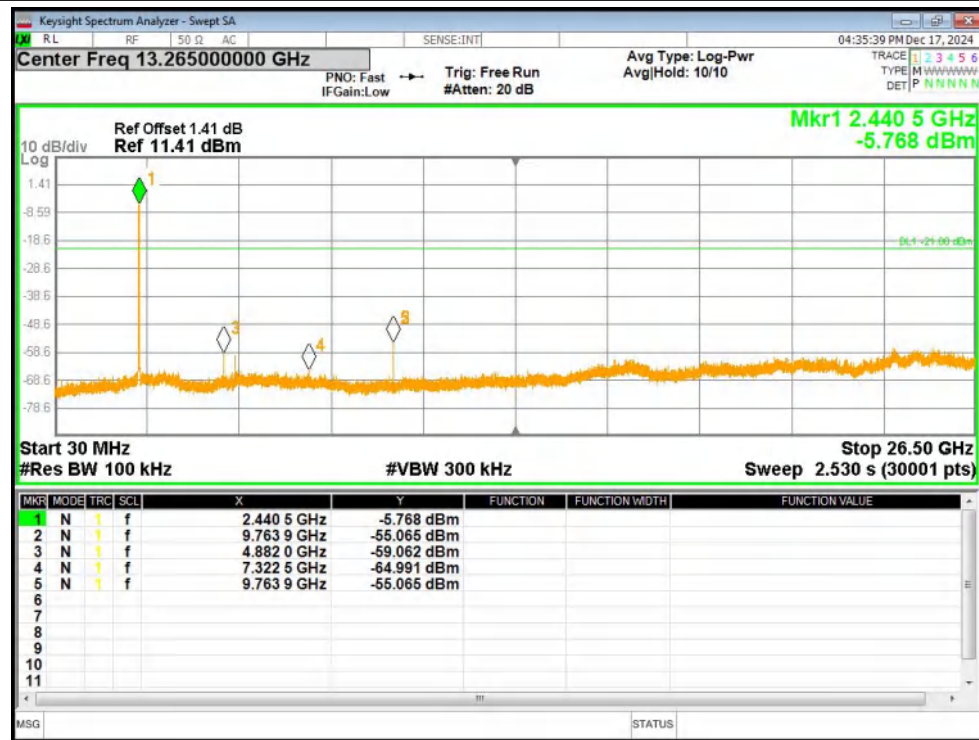
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



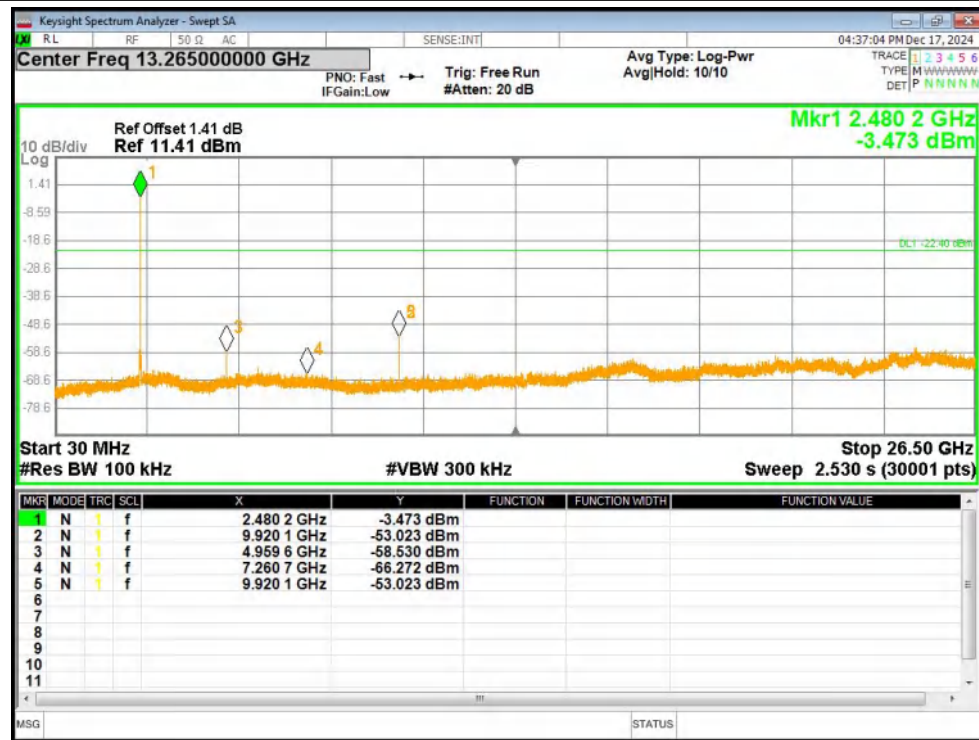
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



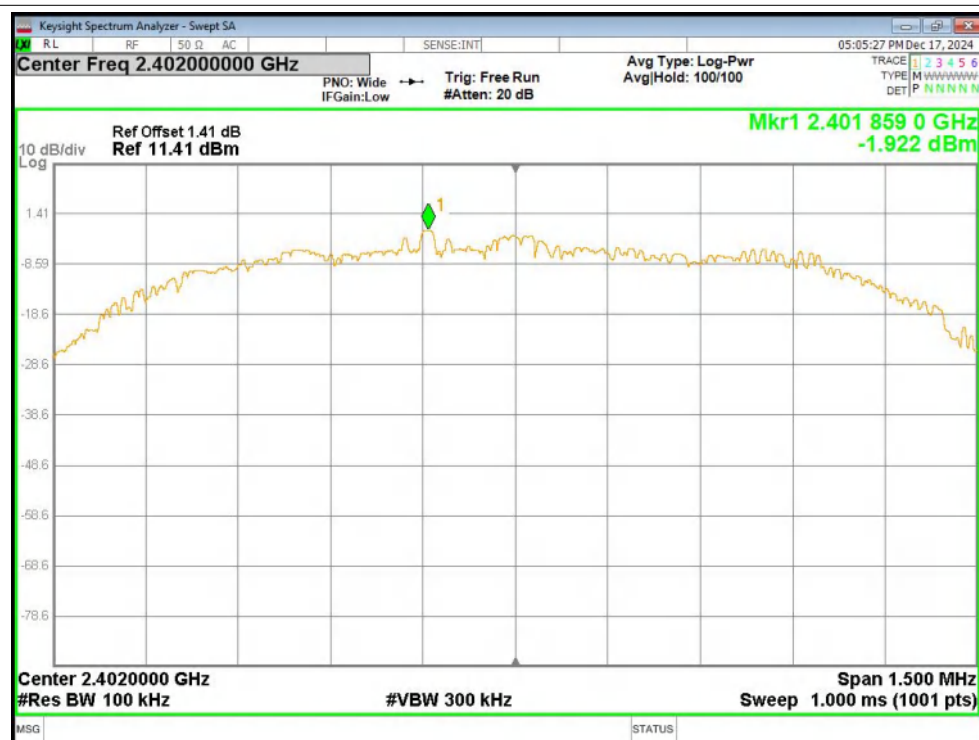
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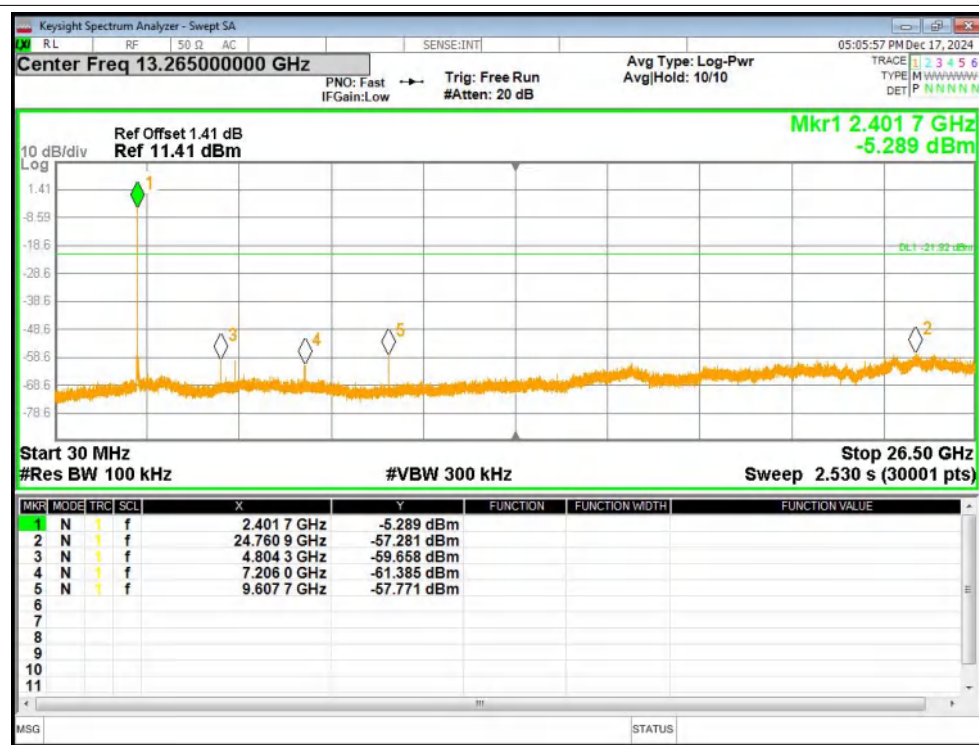
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



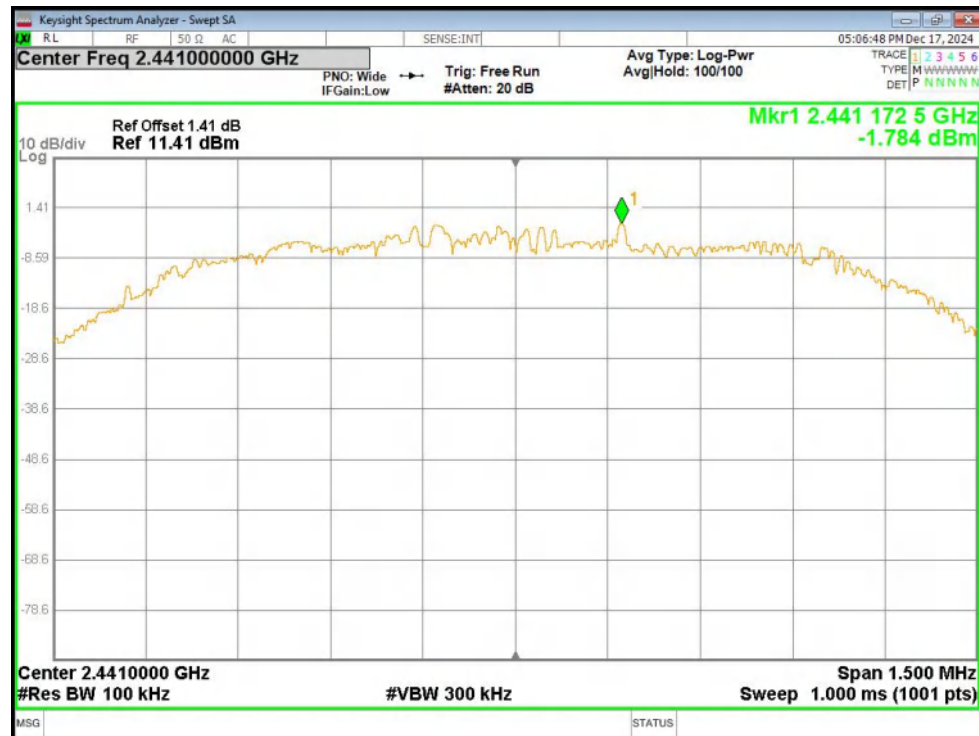
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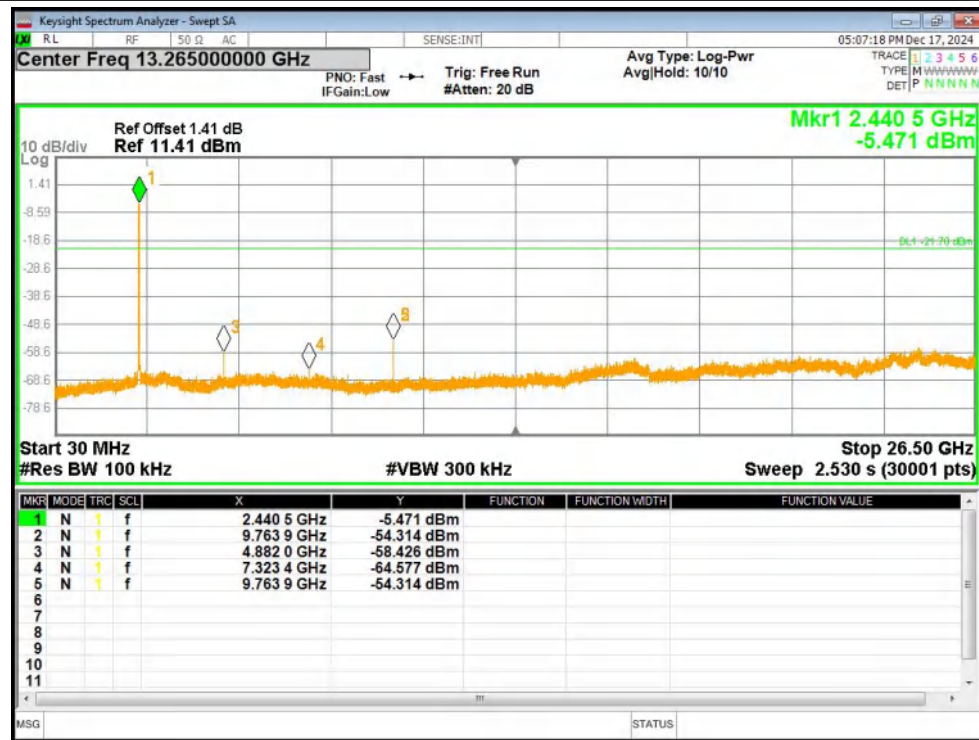
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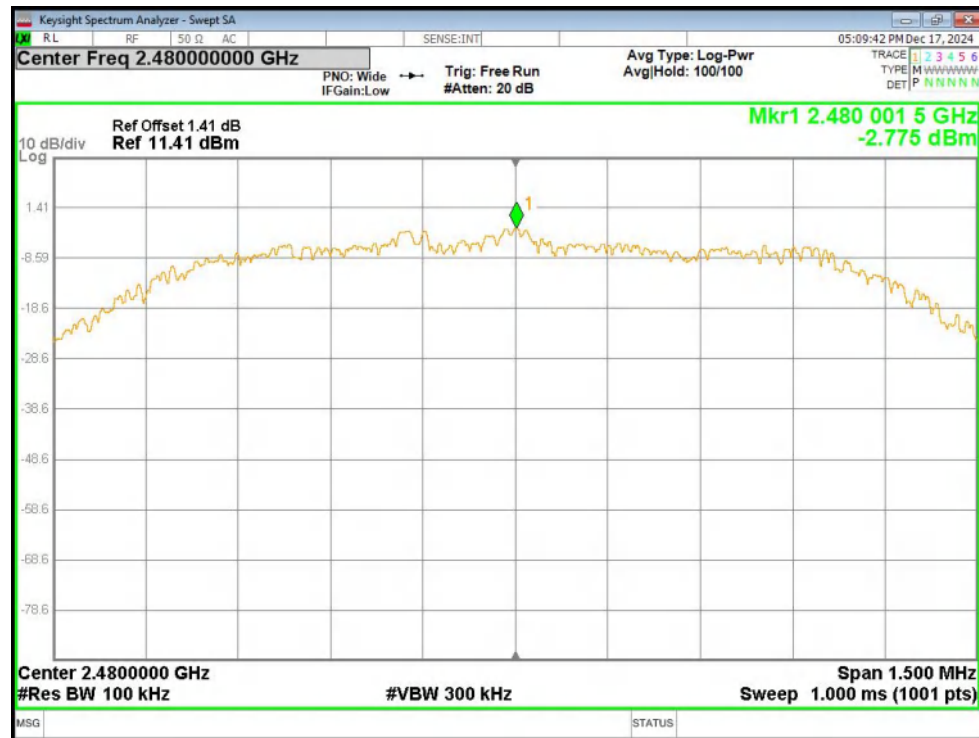
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

