

Table of Contents

1.Dwell Time	2
2.Maximum Peak Conducted Output Power	12
3.-20dB Bandwidth	18
4.Occupied Channel Bandwidth	24
5.Carrier Frequencies Separation	30
6.Number of Hopping Channel	36
7.Band Edge	38
8.Band Edge(Hopping)	45
9.Conducted RF Spurious Emission	52

FCC ID EDR
FCC_BT(Part15.247) Test Data
FCC ID:2AC5R-SC-1425WSW

1.Dwell Time

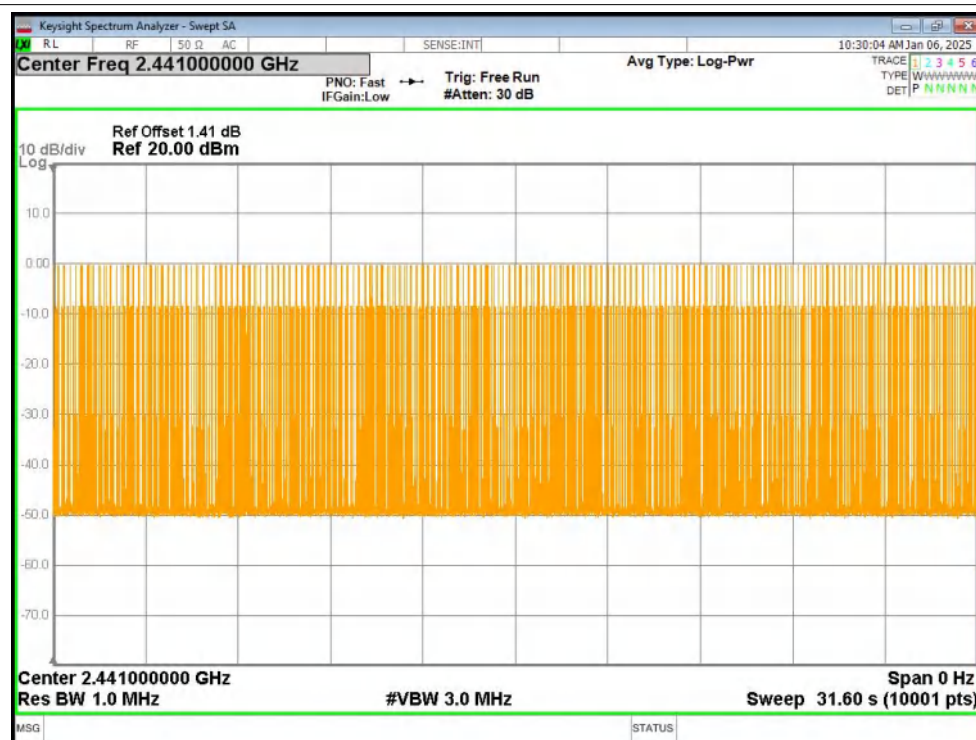
Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2441	0.389	123.313	317	31600	400	Pass
1-DH3	2441	1.645	266.49	162	31600	400	Pass
1-DH5	2441	2.881	299.624	104	31600	400	Pass
2-DH1	2441	0.398	125.768	316	31600	400	Pass
2-DH3	2441	1.646	243.608	148	31600	400	Pass
2-DH5	2441	2.894	344.386	119	31600	400	Pass
3-DH1	2441	0.396	126.324	319	31600	400	Pass
3-DH3	2441	1.644	264.684	161	31600	400	Pass
3-DH5	2441	2.897	298.391	103	31600	400	Pass

Test Graphs

Dwell NVNT 1-DH1 2441MHz Ant1 One Burst



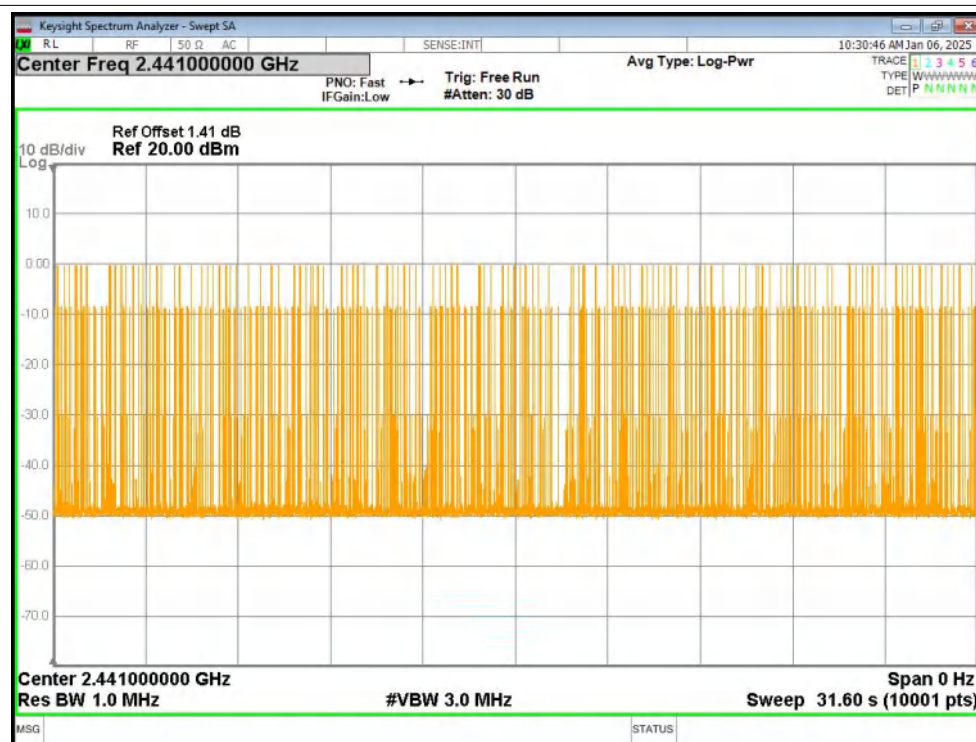
Dwell NVNT 1-DH1 2441MHz Ant1 Accumulated



Dwell NVNT 1-DH3 2441MHz Ant1 One Burst



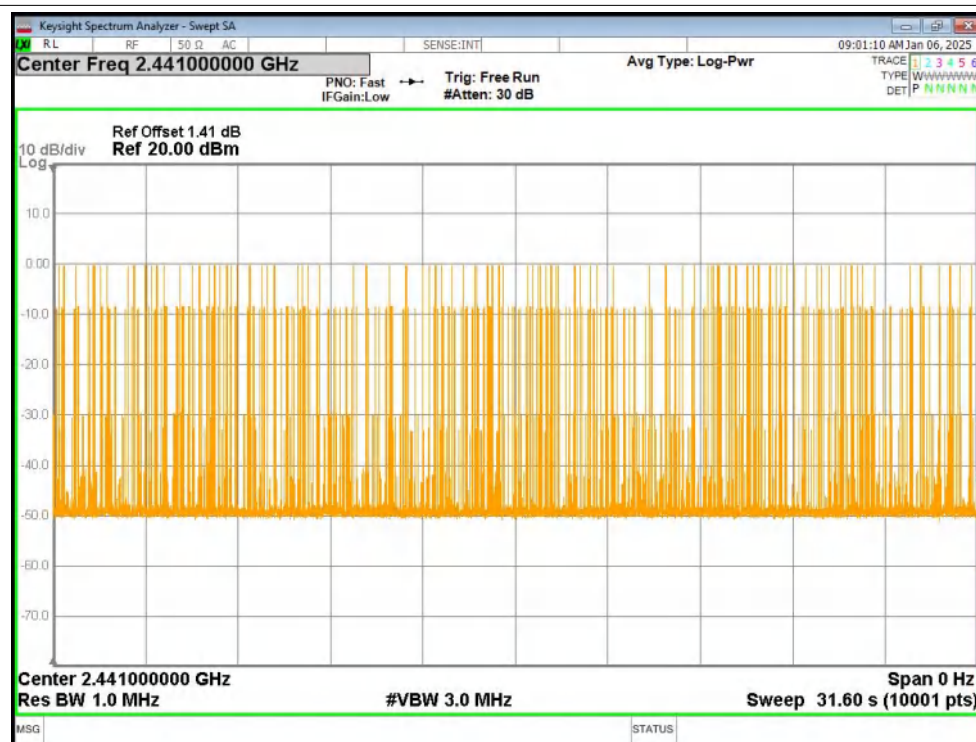
Dwell NVNT 1-DH3 2441MHz Ant1 Accumulated



Dwell NVNT 1-DH5 2441MHz Ant1 One Burst



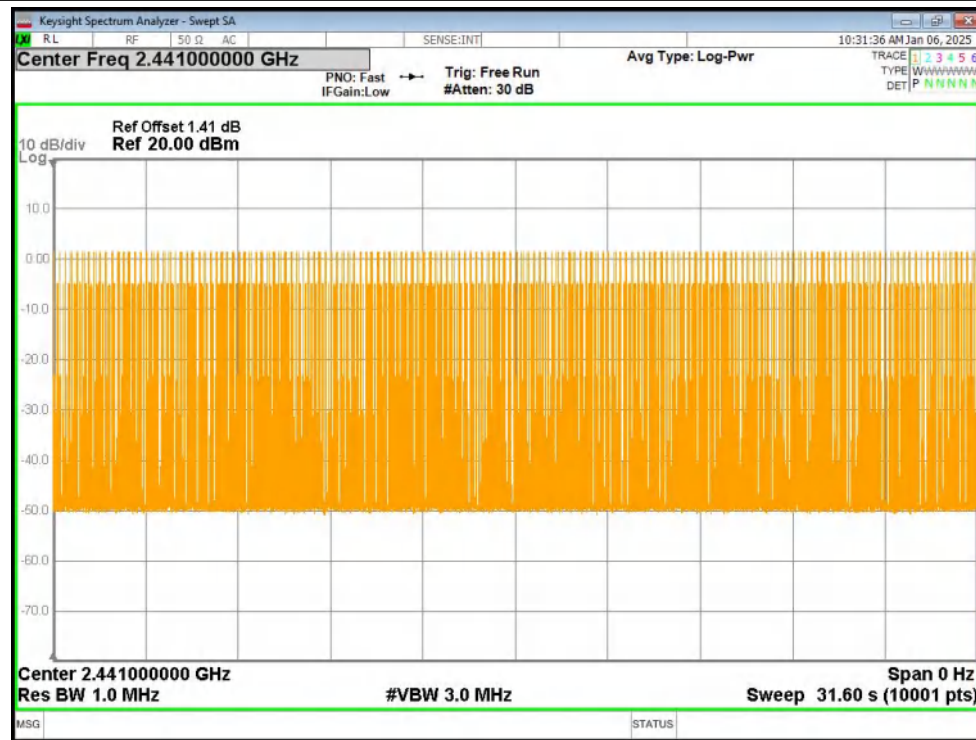
Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated



Dwell NVNT 2-DH1 2441MHz Ant1 One Burst



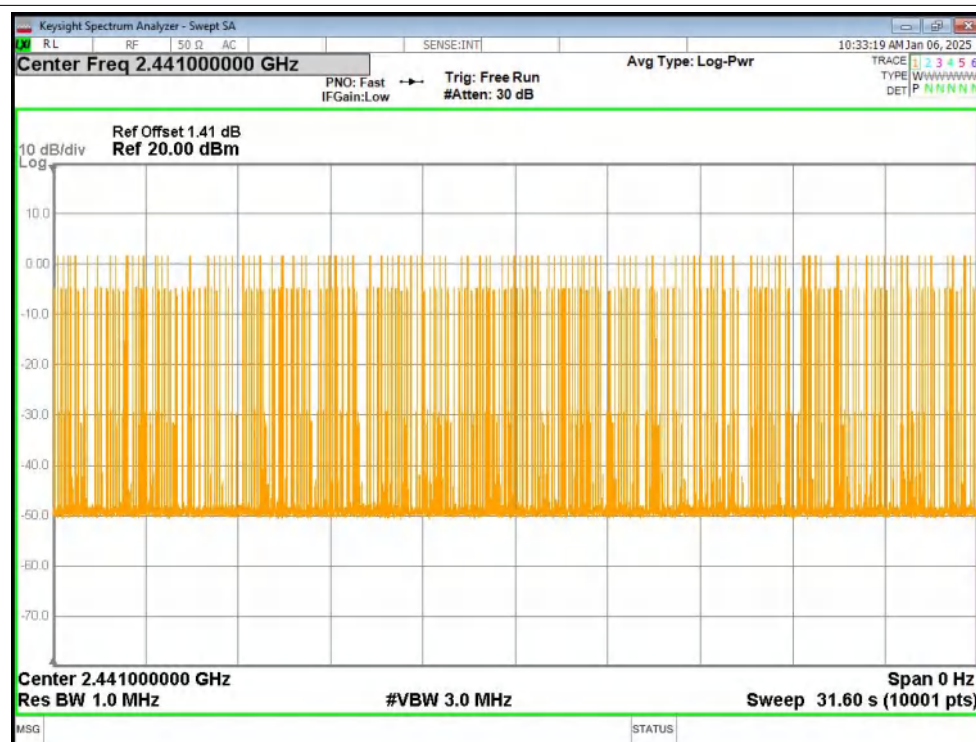
Dwell NVNT 2-DH1 2441MHz Ant1 Accumulated



Dwell NVNT 2-DH3 2441MHz Ant1 One Burst



Dwell NVNT 2-DH3 2441MHz Ant1 Accumulated



Keysight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig Delay: 500.0 μ s

Avg Type: Log-Pwr

Ref Offset 1.41 dB

Ref 20.00 dBm

Δ Mkr1 2.894 ms

5.68 dB

Center 2.441000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 10.00 ms (10001 pts)

Span 0 Hz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ 2	t	(Δ)	2.894 ms	(Δ) 5.68 dB			
2	F	t		365.0 μ s	-14.52 dBm			

Keysight Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT 09:41:19 AM Jan 06, 2025

Center Freq 2.441000000 GHz Avg Type: Log-Pwr

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

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

[illegible]

Keysight Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT 10:34:36 AM Jan 06, 2025

Center Freq 2.441000000 GHz Avg Type: Log-Pwr

PNO: Fast IFGain:Low Trig: Free Run #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

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

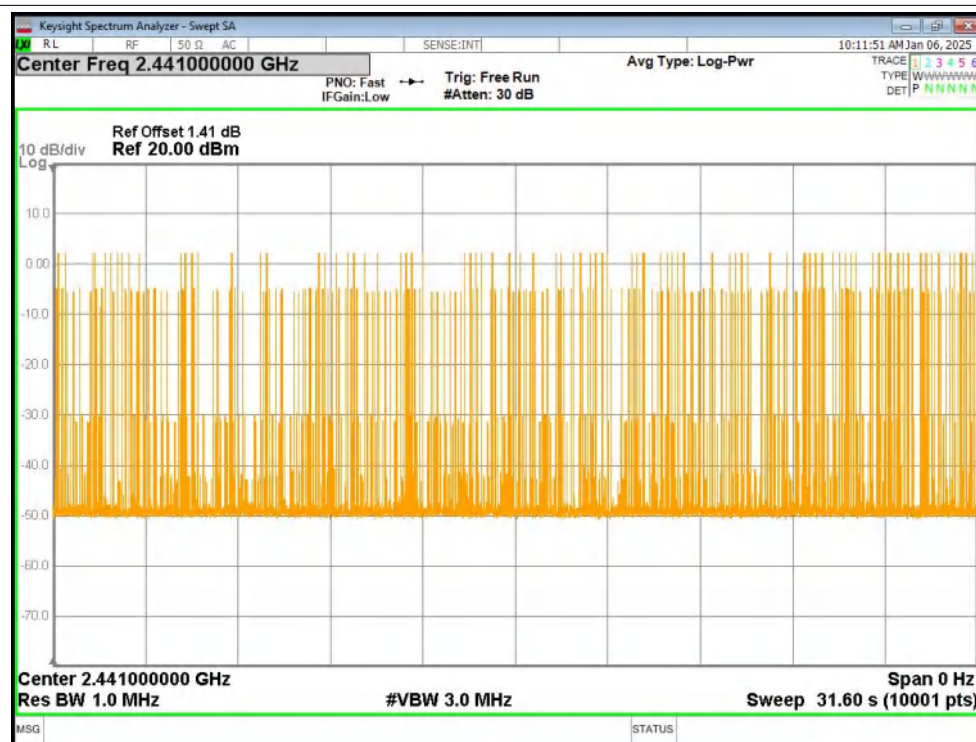
[illegible]

The screenshot displays a Keysight Spectrum Analyzer interface. The top status bar shows the device is a "Keysight Spectrum Analyzer - Swept SA" with a date and time of "10:36:46 AM Jan 06, 2025". The main display area shows a spectrum plot with a center frequency of "Center Freq 2.441000000 GHz". The plot shows a dense, noisy signal with a reference level of "Ref 20.00 dBm" and a reference offset of "Ref Offset 1.41 dB". The vertical axis is labeled "10 dB/div Log" and ranges from -70.0 to 10.0. The horizontal axis is labeled "Center 2.441000000 GHz" and "Span 0 Hz". The resolution bandwidth is "Res BW 1.0 MHz" and the video bandwidth is "#VBW 3.0 MHz". The sweep time is "Sweep 31.60 s (10001 pts)". The bottom status bar shows "MSG" and "STATUS".

Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated

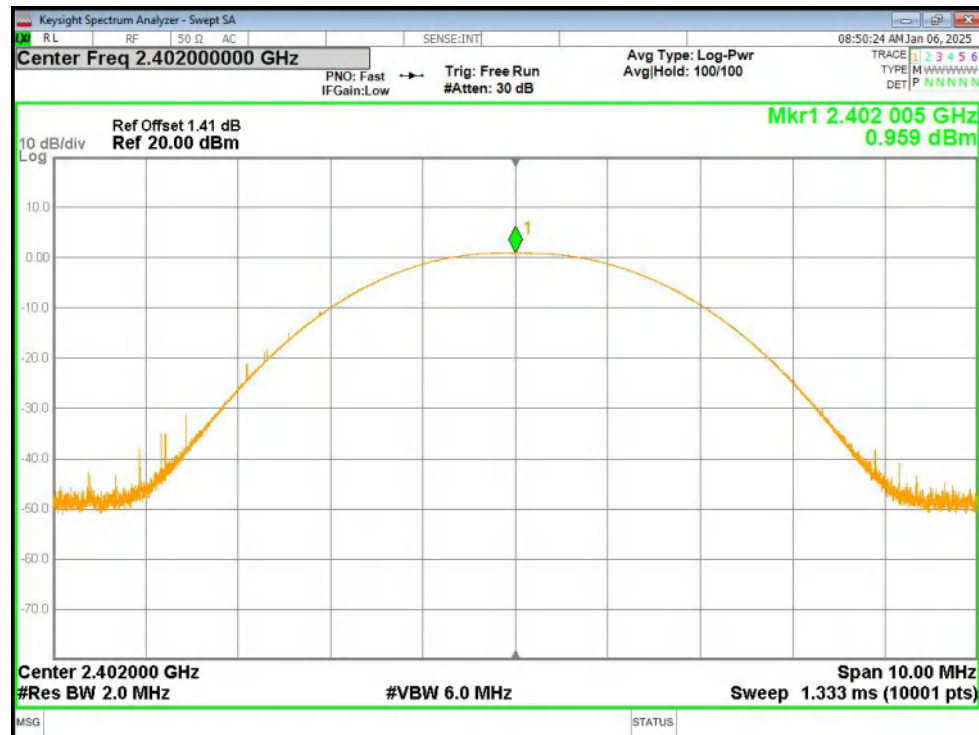


2.Maximum Peak Conducted Output Power

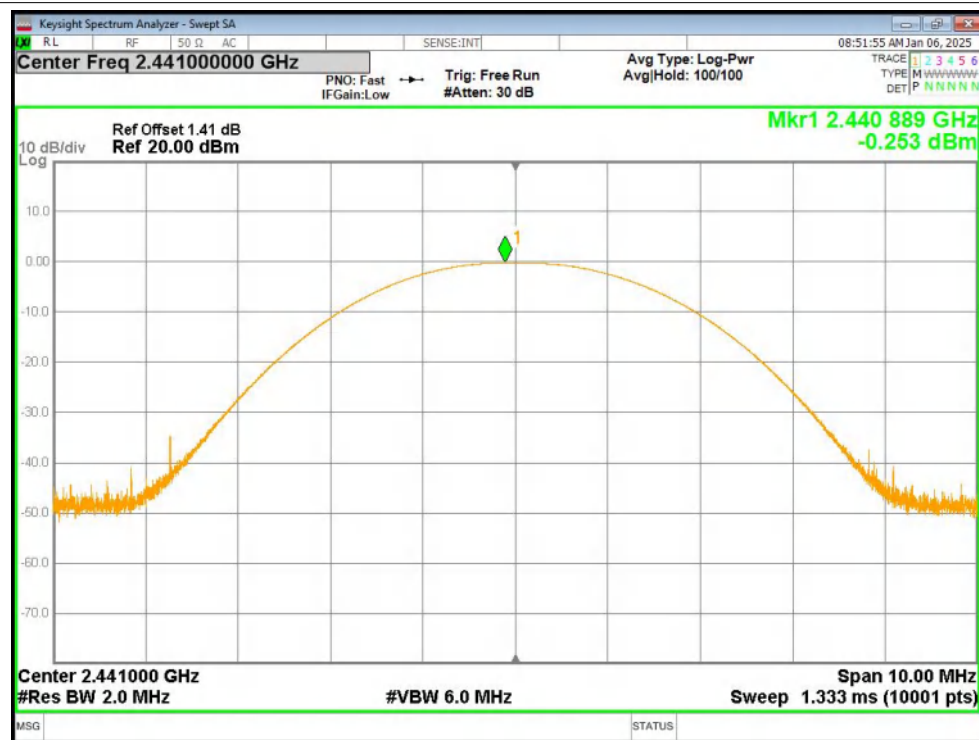
Mode	Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Verdict
1-DH5	2402	0.96	21	Pass
1-DH5	2441	-0.25	21	Pass
1-DH5	2480	-2.03	21	Pass
2-DH5	2402	3.28	21	Pass
2-DH5	2441	2.03	21	Pass
2-DH5	2480	0.23	21	Pass
3-DH5	2402	3.79	21	Pass
3-DH5	2441	2.58	21	Pass
3-DH5	2480	0.74	21	Pass

Test Graphs

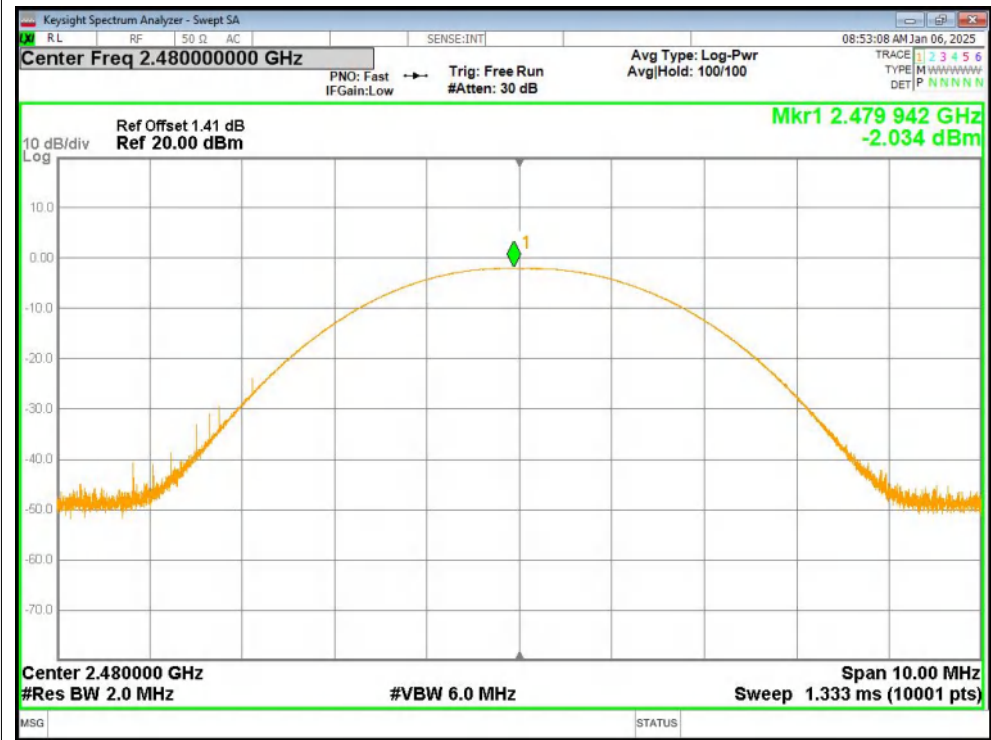
Peak Power NVNT 1-DH5 2402MHz Ant1



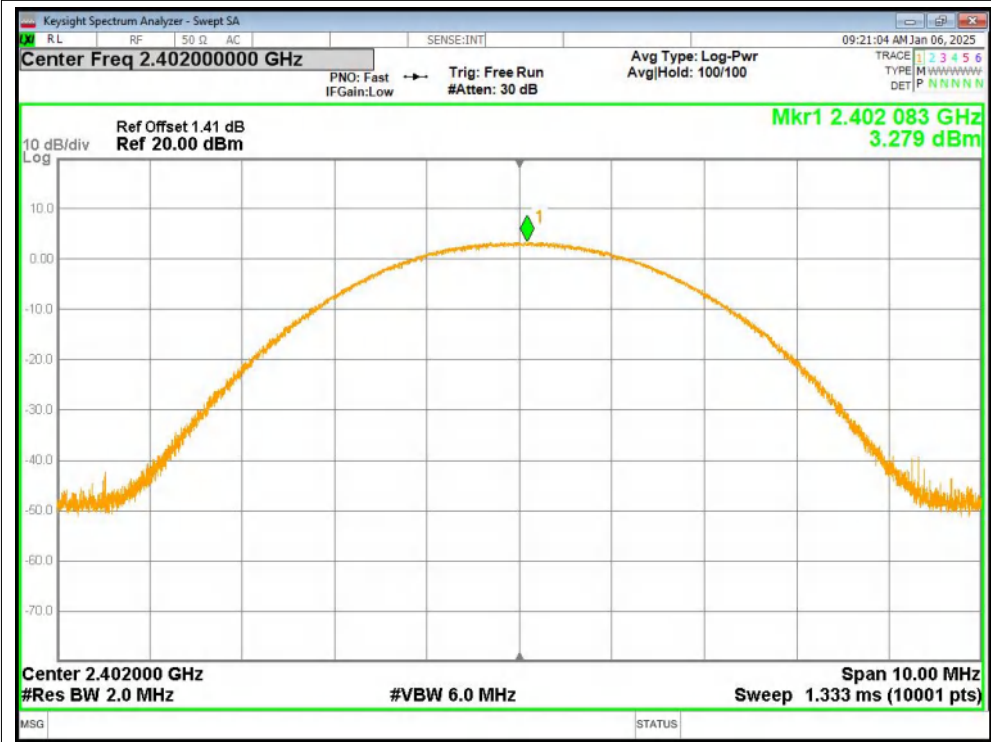
Peak Power NVNT 1-DH5 2441MHz Ant1



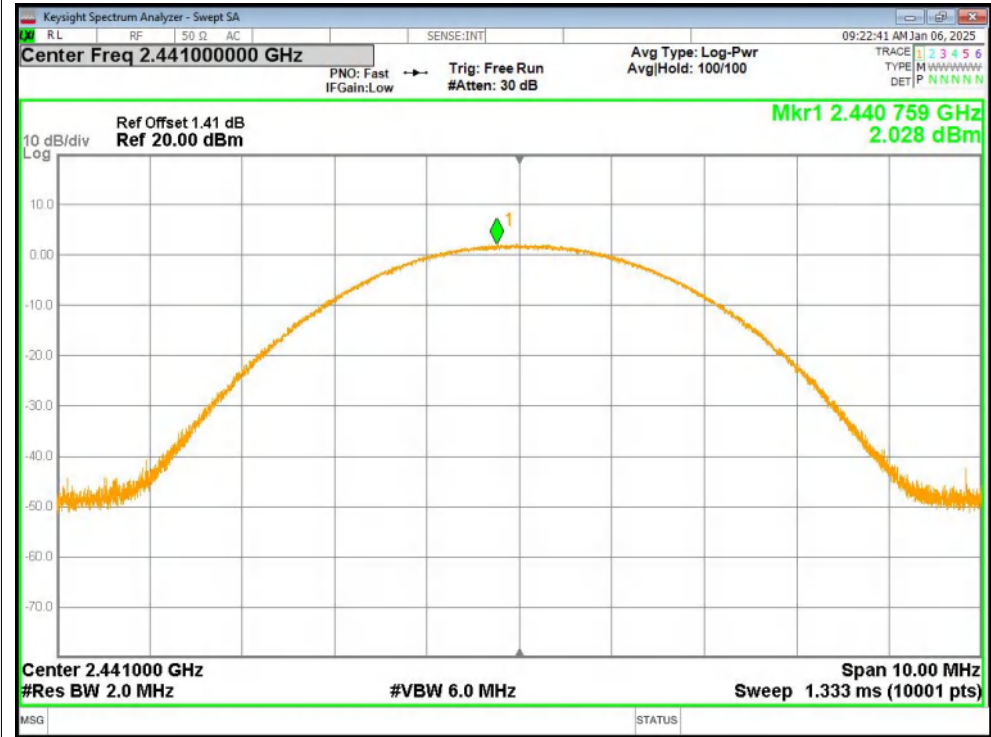
Peak Power NVNT 1-DH5 2480MHz Ant1



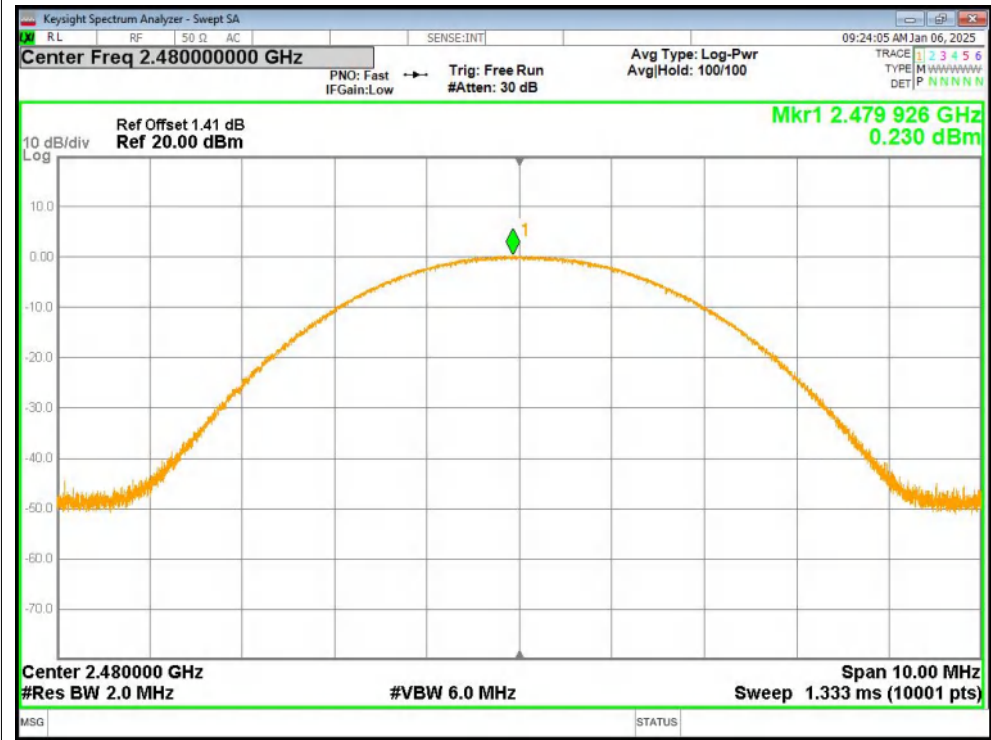
Peak Power NVNT 2-DH5 2402MHz Ant1



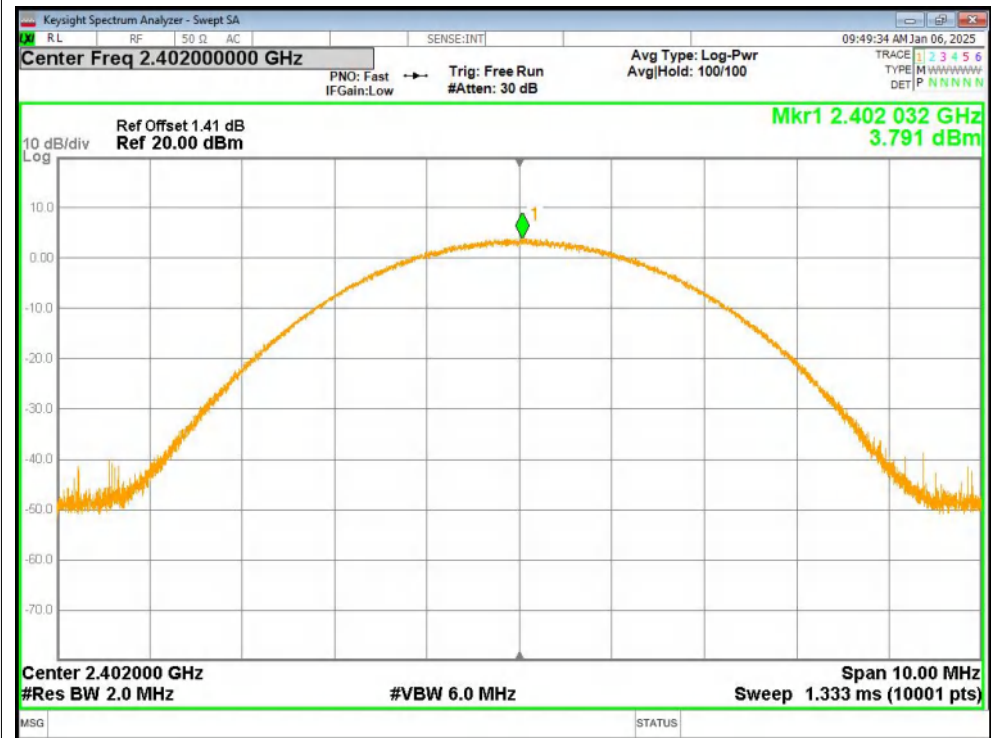
Peak Power NVNT 2-DH5 2441MHz Ant1



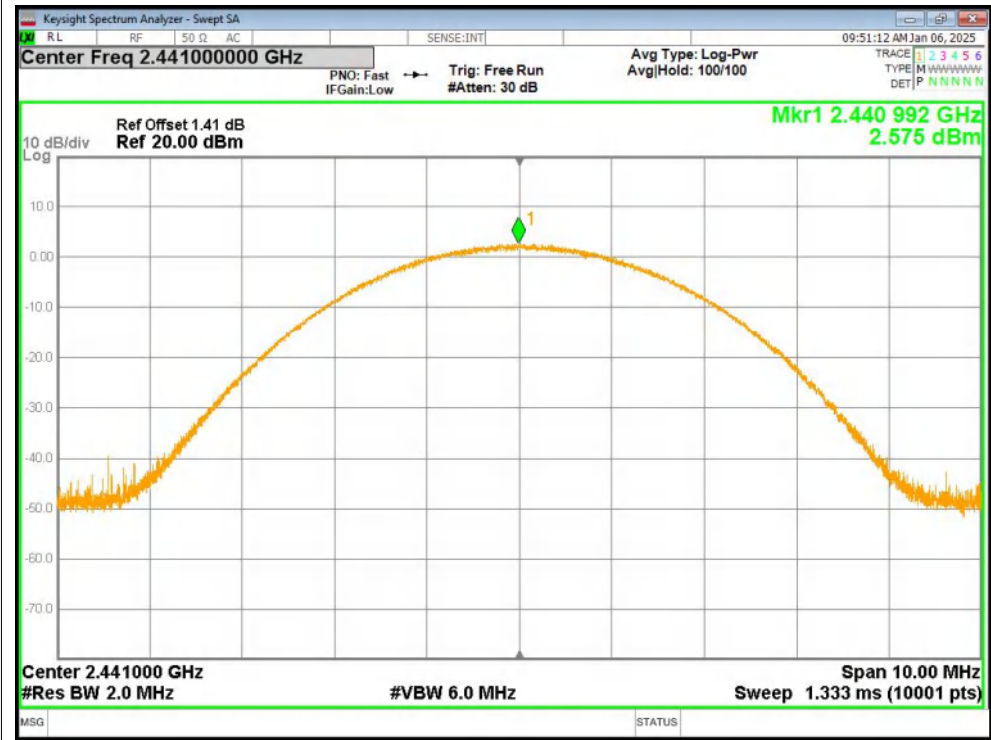
Peak Power NVNT 2-DH5 2480MHz Ant1



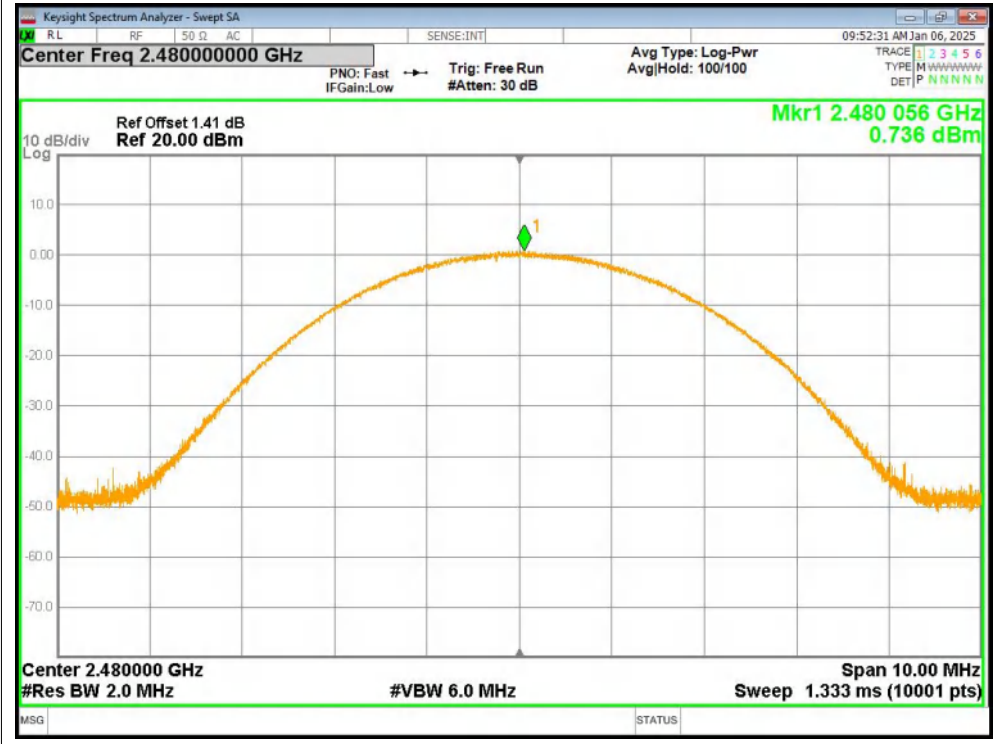
Peak Power NVNT 3-DH5 2402MHz Ant1



Peak Power NVNT 3-DH5 2441MHz Ant1



Peak Power NVNT 3-DH5 2480MHz Ant1

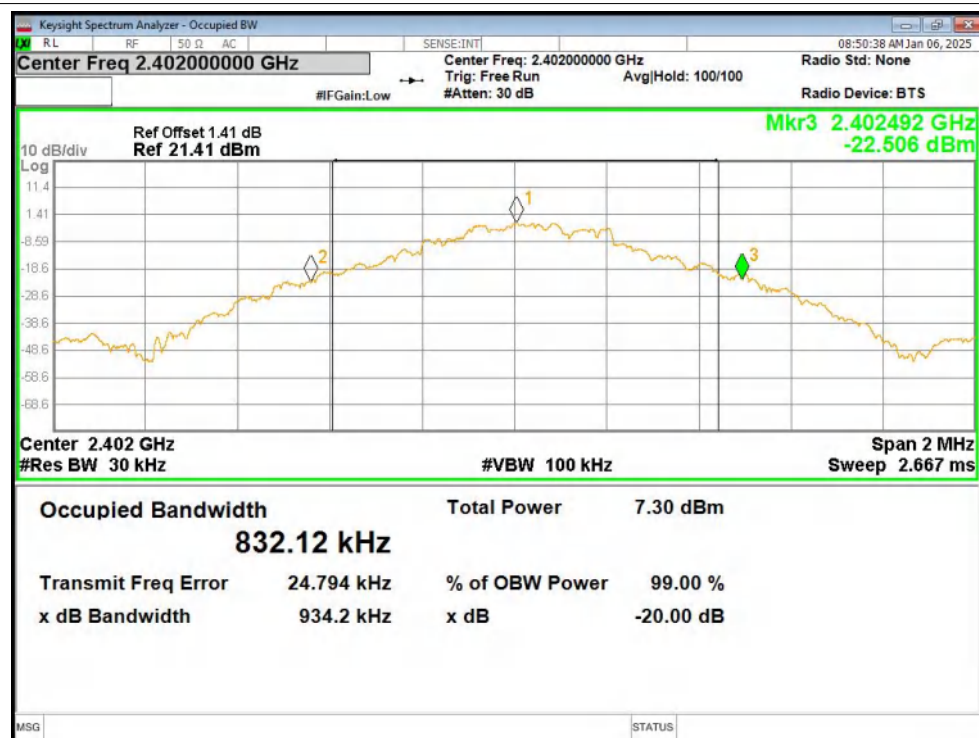


3.-20dB Bandwidth

Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
1-DH5	2402	0.934	Pass
1-DH5	2441	0.938	Pass
1-DH5	2480	0.945	Pass
2-DH5	2402	1.315	Pass
2-DH5	2441	1.33	Pass
2-DH5	2480	1.335	Pass
3-DH5	2402	1.295	Pass
3-DH5	2441	1.302	Pass
3-DH5	2480	1.29	Pass

Test Graphs

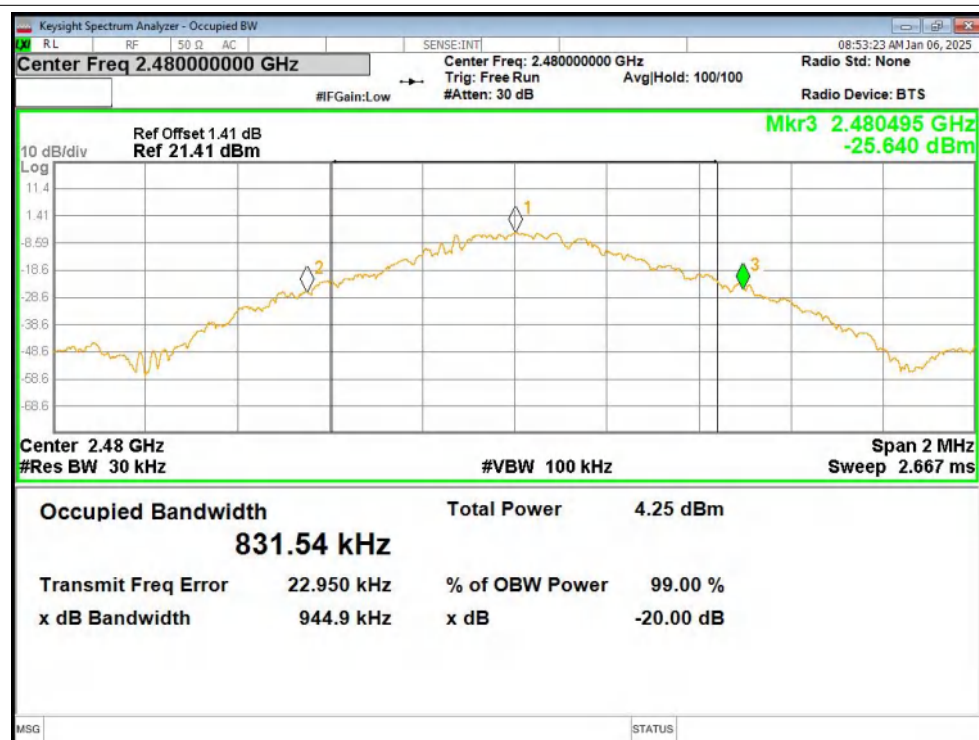
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



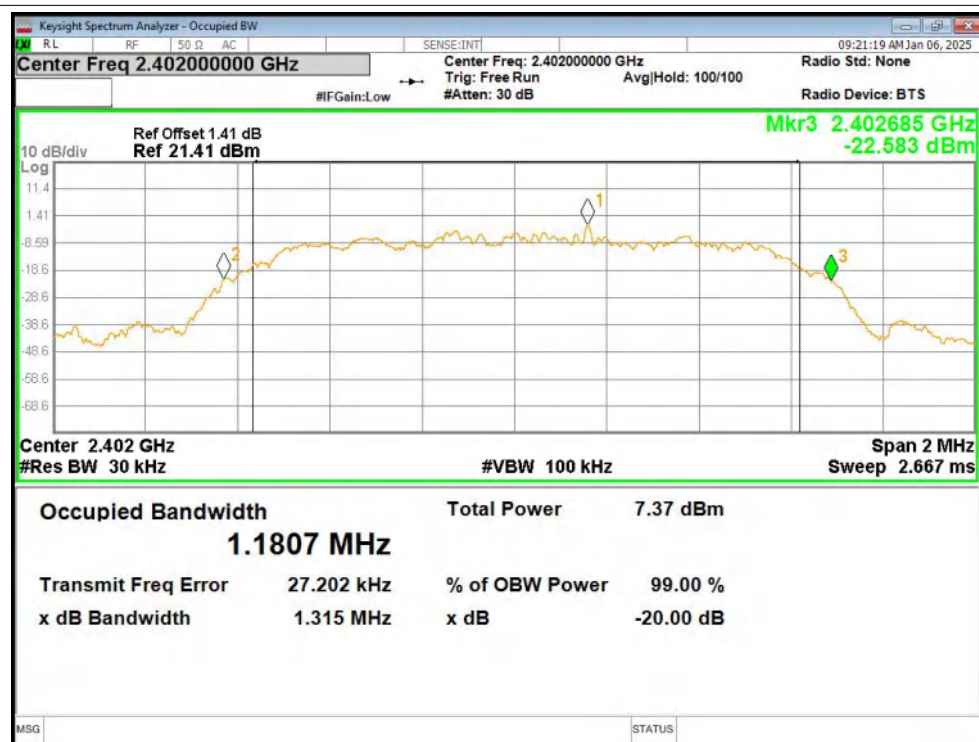
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



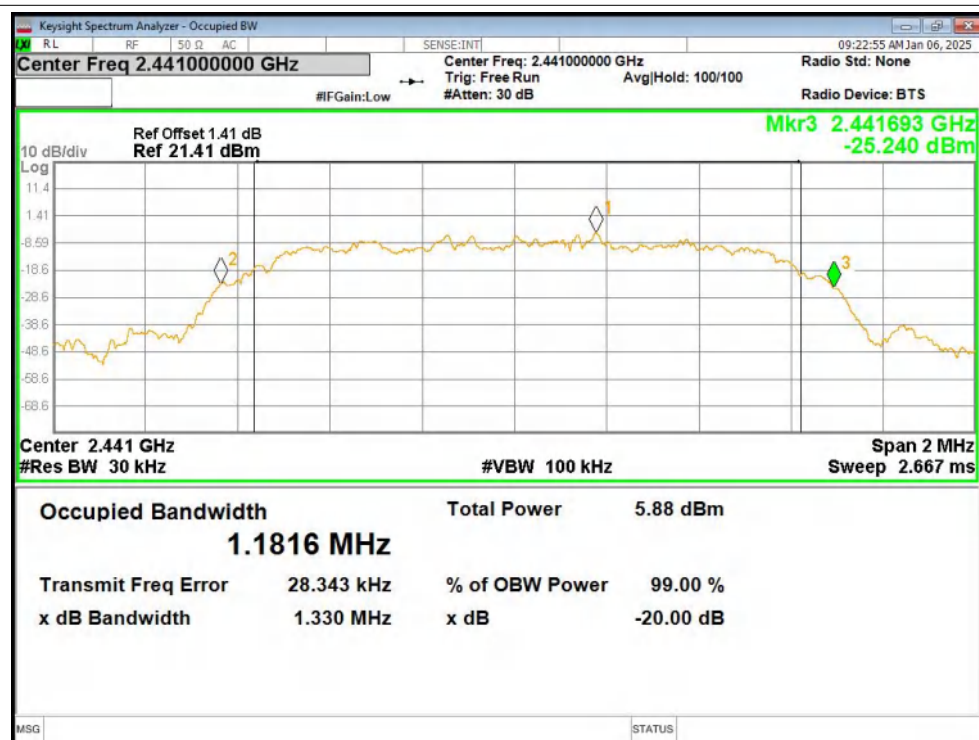
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



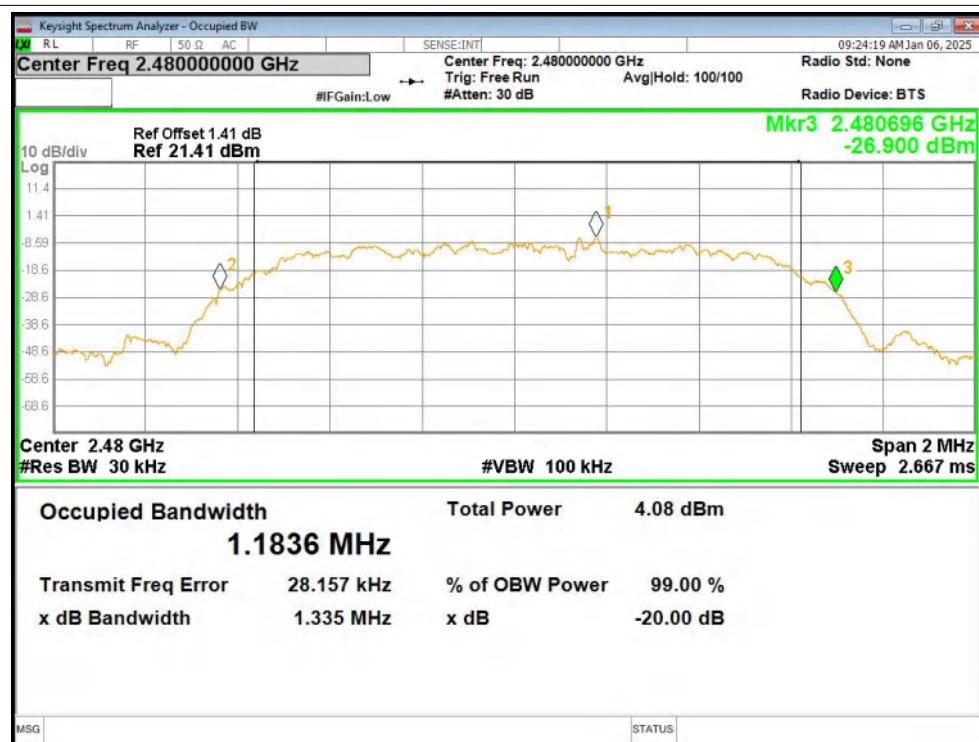
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



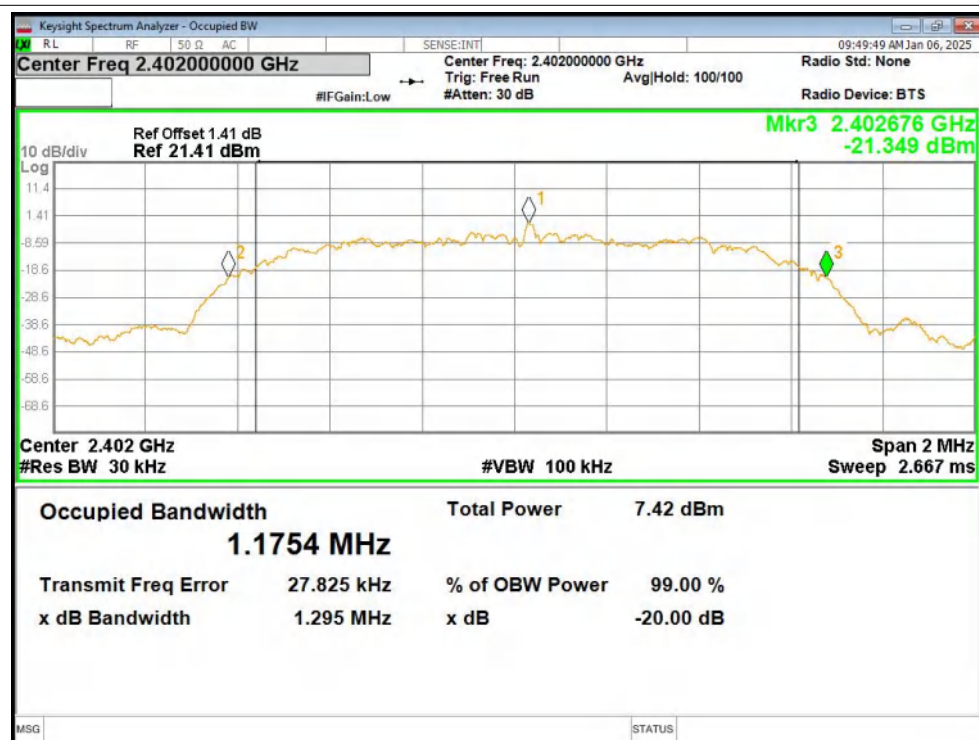
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



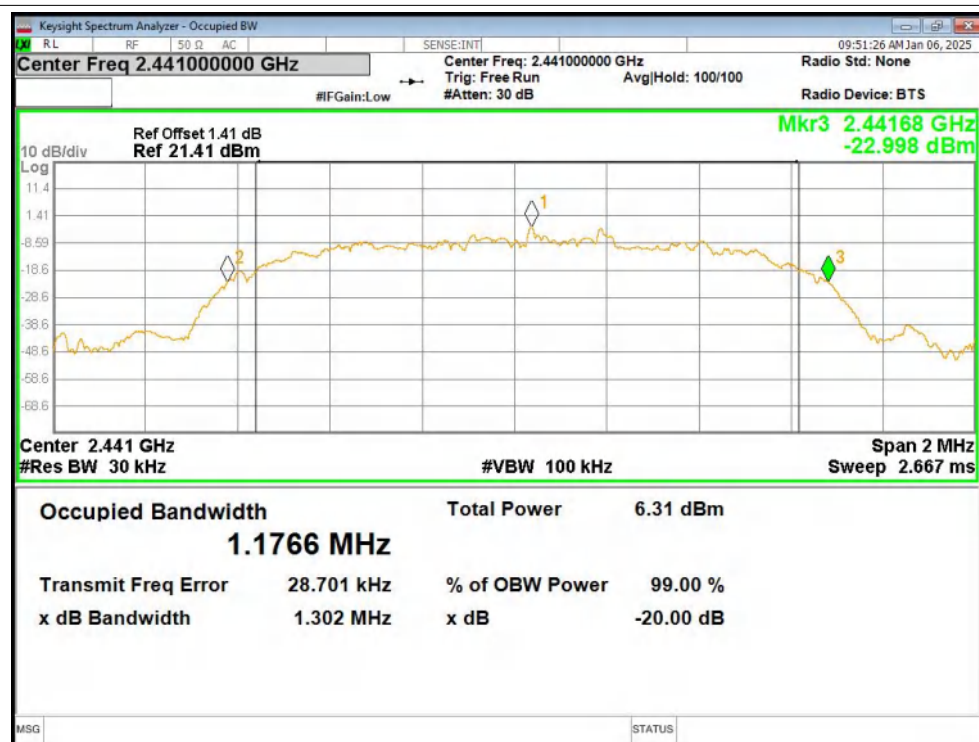
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



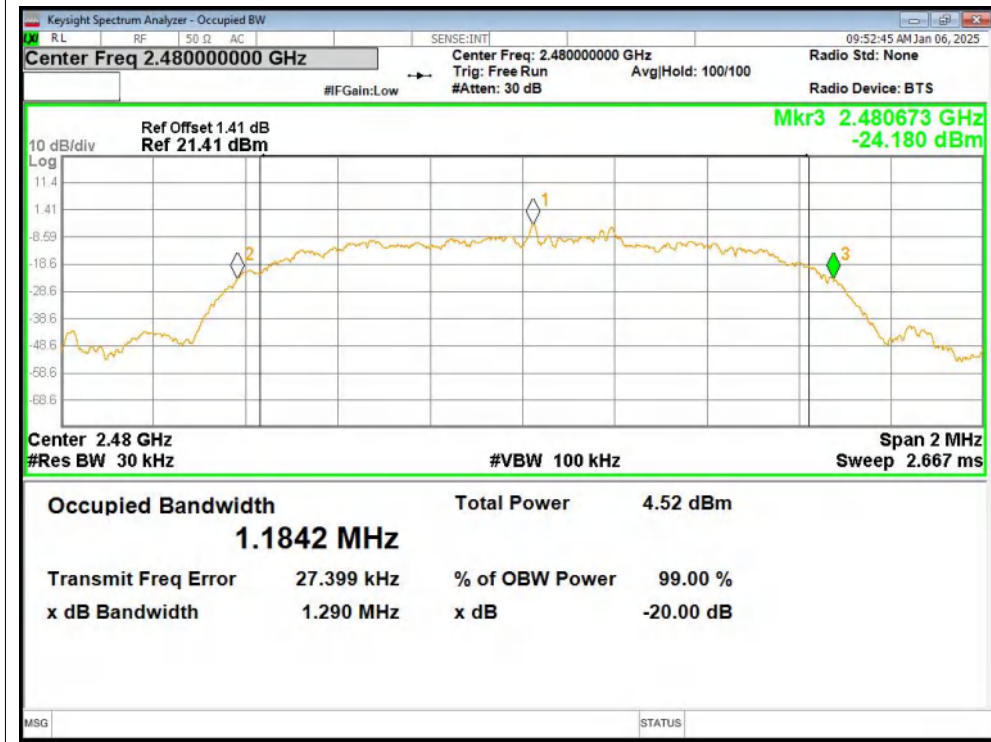
-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1

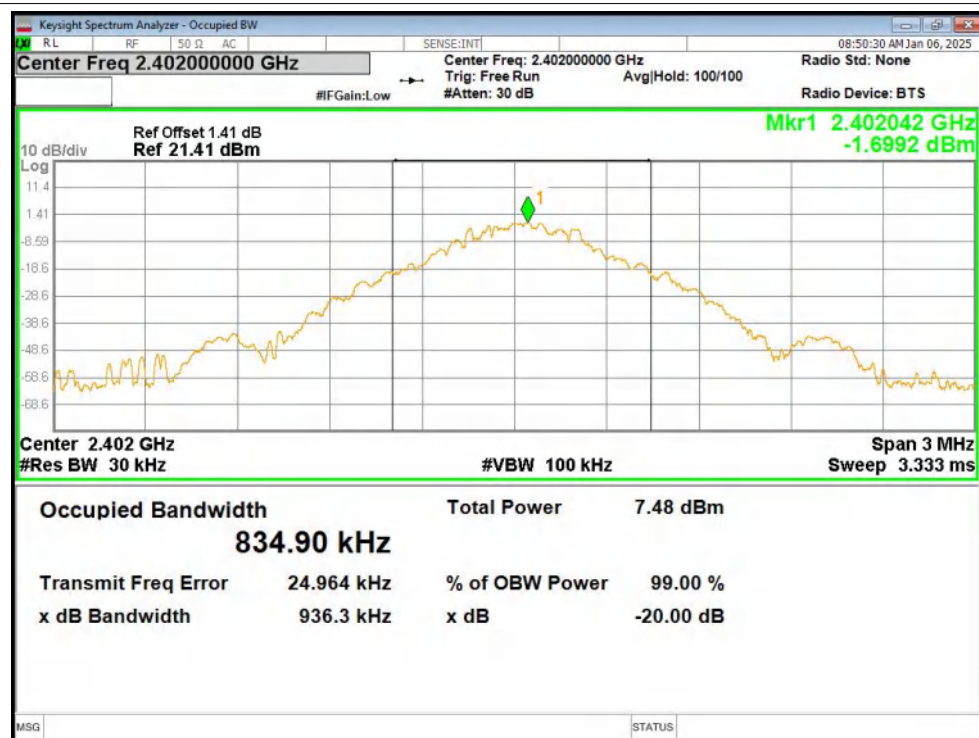


4.Occupied Channel Bandwidth

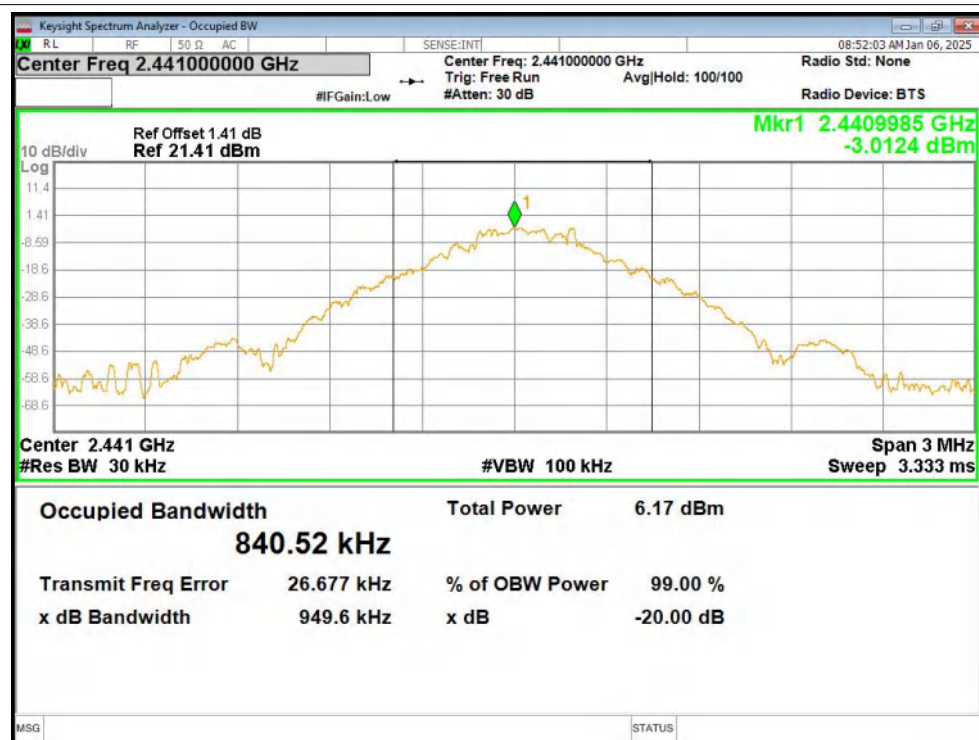
Mode	Frequency (MHz)	99% OBW (MHz)
1-DH5	2402	0.835
1-DH5	2441	0.841
1-DH5	2480	0.822
2-DH5	2402	1.186
2-DH5	2441	1.173
2-DH5	2480	1.178
3-DH5	2402	1.182
3-DH5	2441	1.193
3-DH5	2480	1.182

Test Graphs

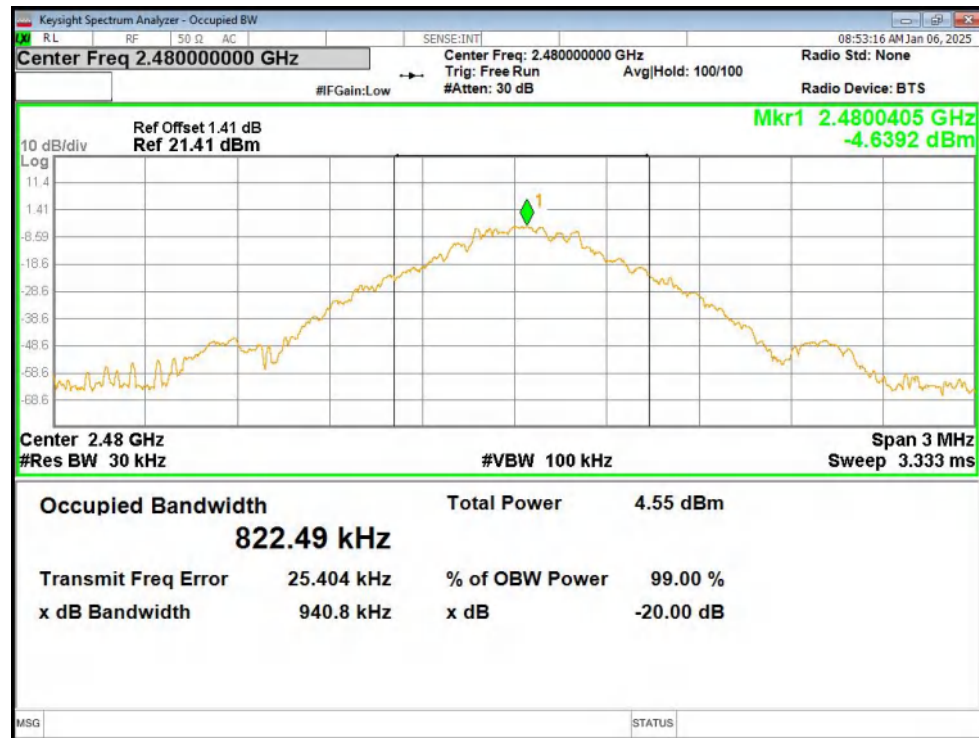
OBW NVNT 1-DH5 2402MHz Ant1



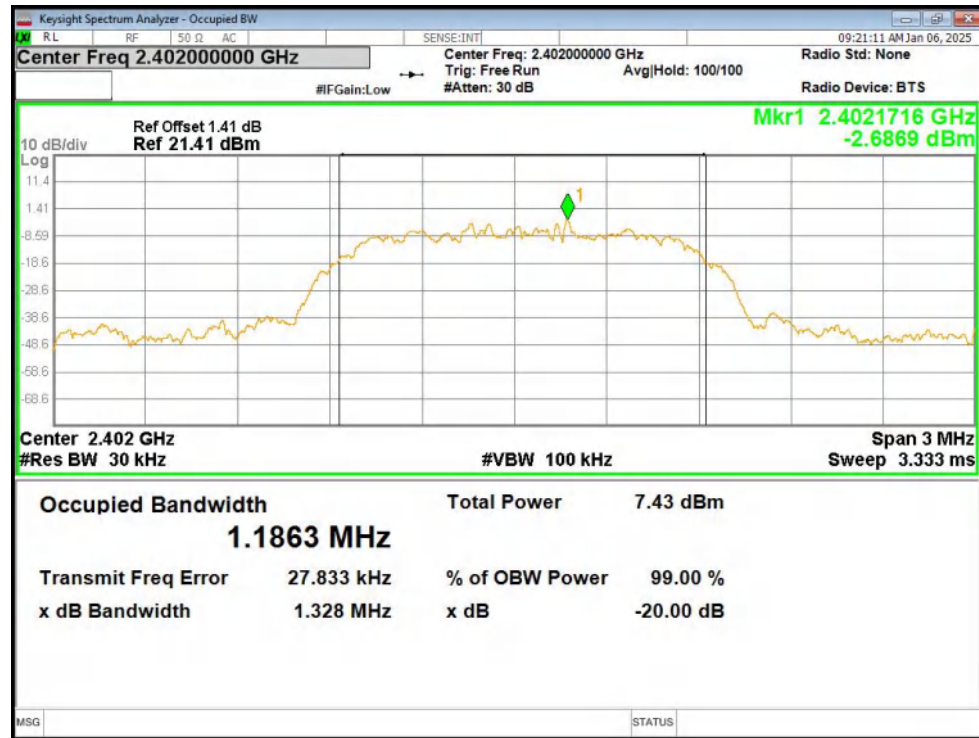
OBW NVNT 1-DH5 2441MHz Ant1



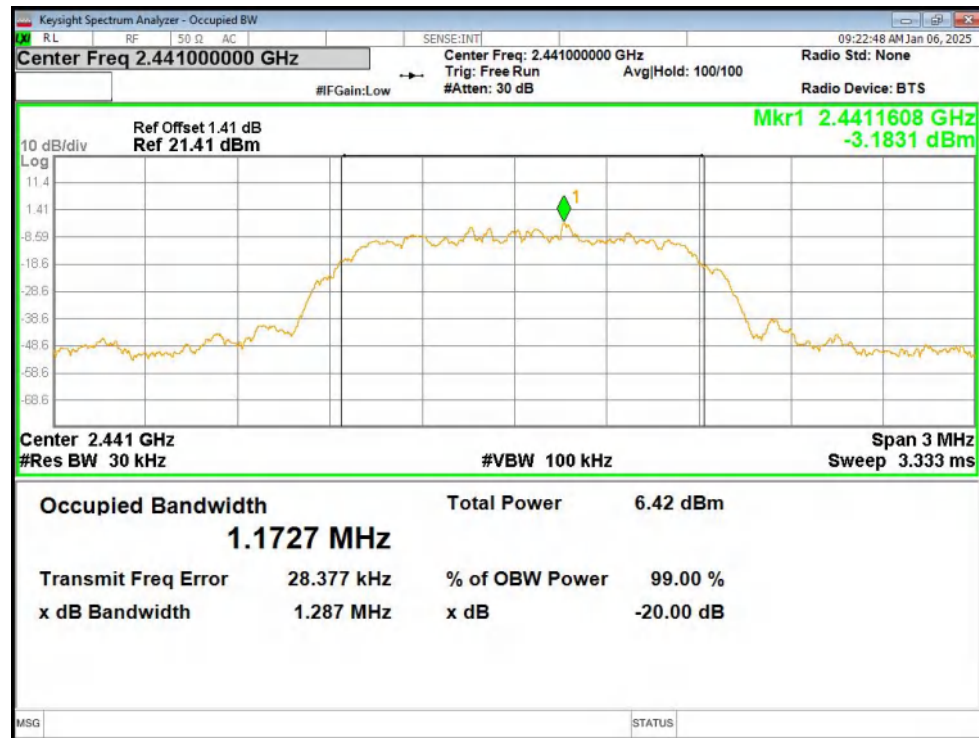
OBW NVNT 1-DH5 2480MHz Ant1



OBW NVNT 2-DH5 2402MHz Ant1



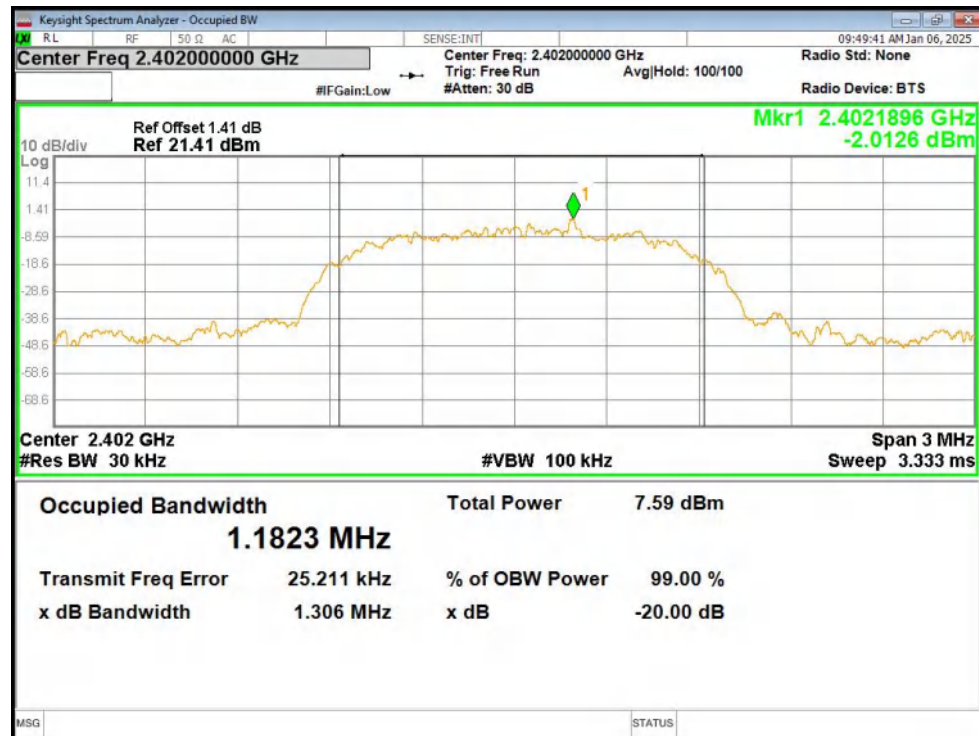
OBW NVNT 2-DH5 2441MHz Ant1



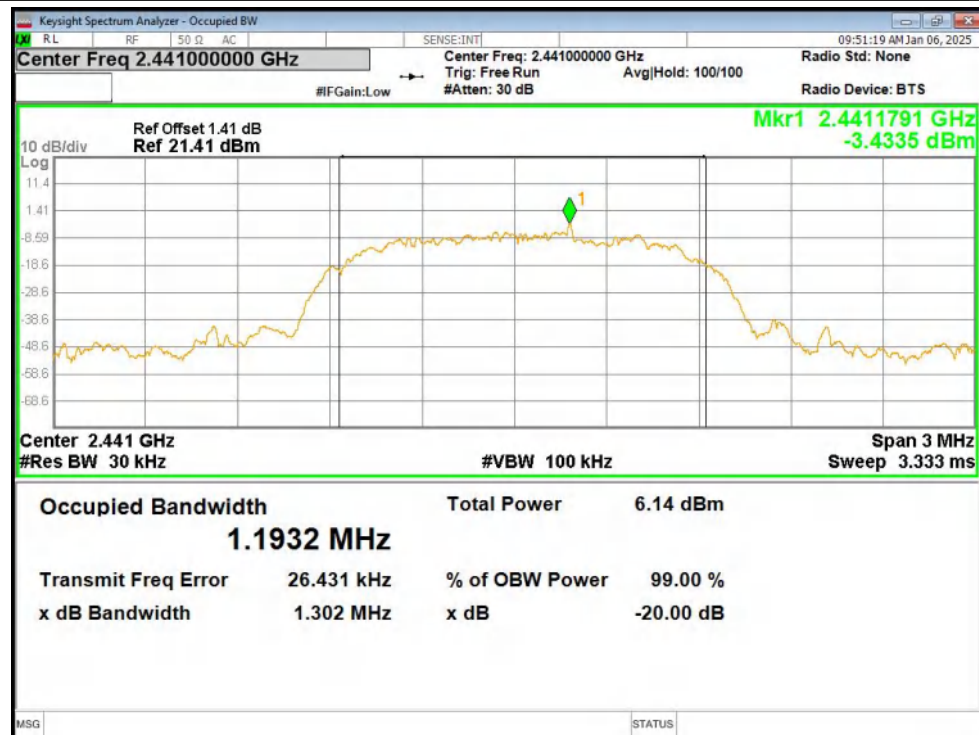
OBW NVNT 2-DH5 2480MHz Ant1



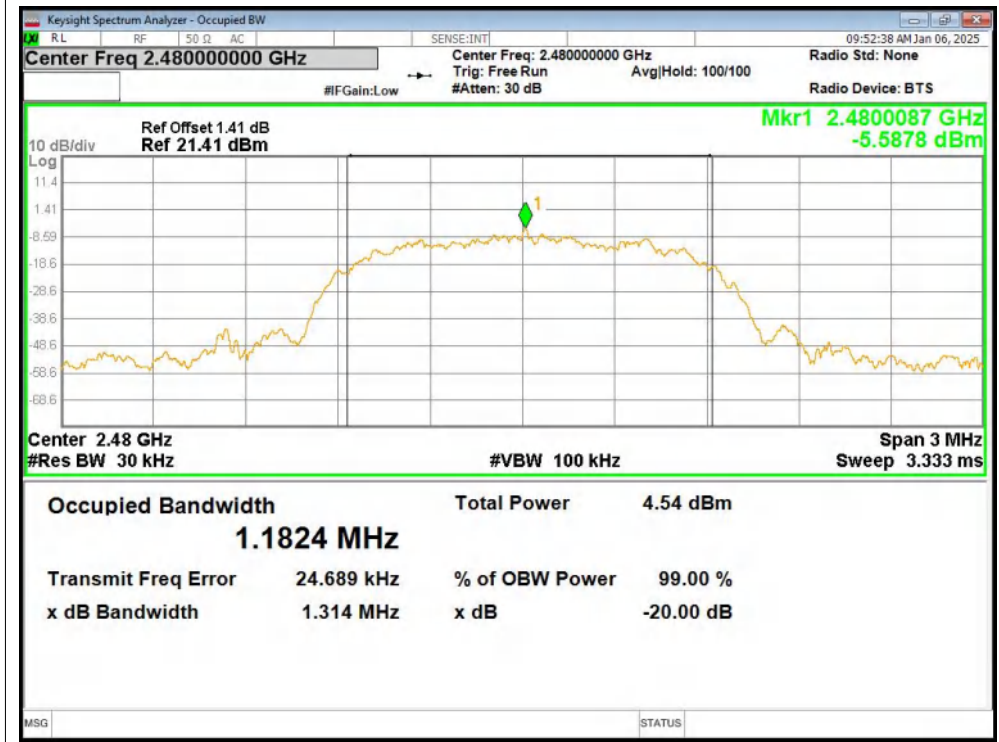
OBW NVNT 3-DH5 2402MHz Ant1



OBW NVNT 3-DH5 2441MHz Ant1



OBW NVNT 3-DH5 2480MHz Ant1

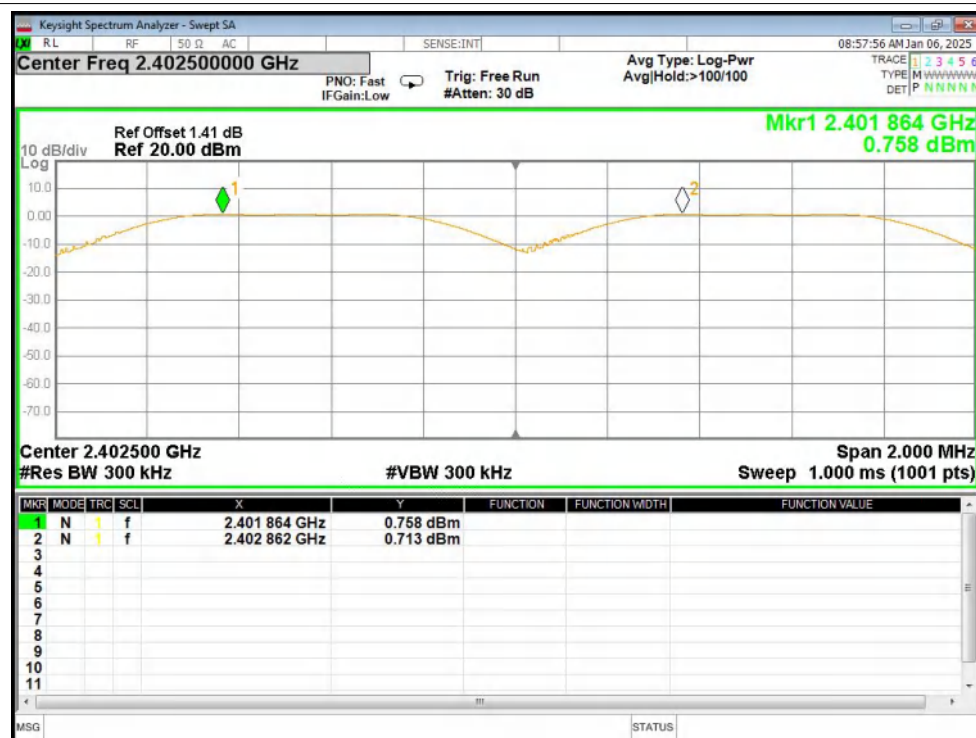


5.Carrier Frequencies Separation

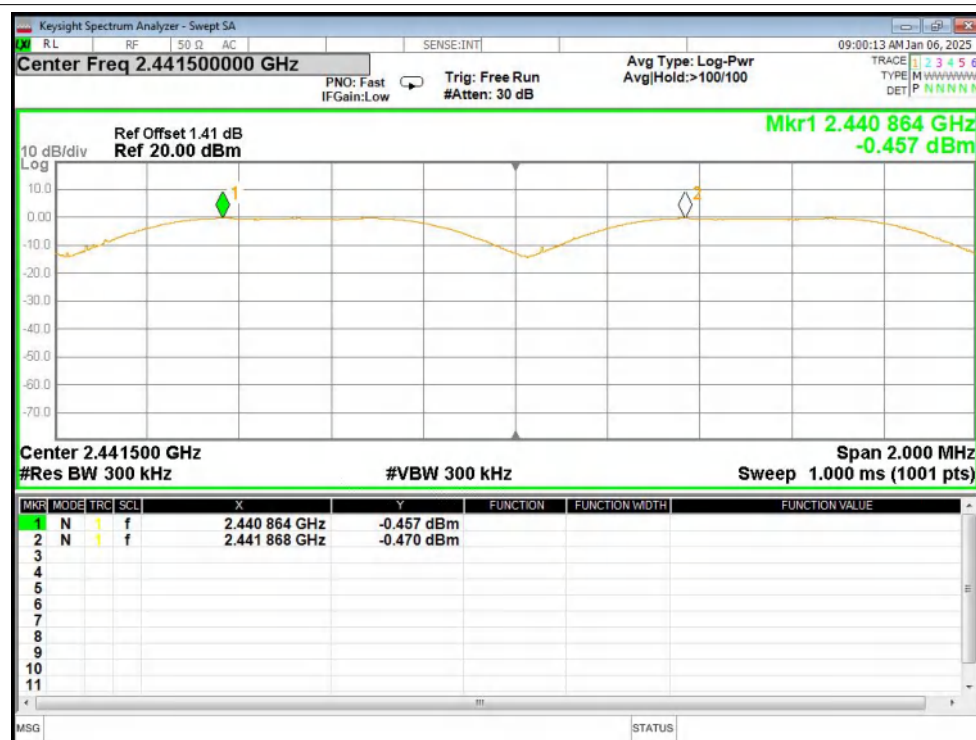
Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
1-DH5	2401.864	2402.862	0.998	0.623	Pass
1-DH5	2440.864	2441.868	1.004	0.625	Pass
1-DH5	2478.86	2479.862	1.002	0.63	Pass
2-DH5	2402.01	2403.018	1.008	0.877	Pass
2-DH5	2441.006	2442.022	1.016	0.887	Pass
2-DH5	2479.018	2480.03	1.012	0.89	Pass
3-DH5	2402.176	2403.182	1.006	0.863	Pass
3-DH5	2441.182	2442.168	0.986	0.868	Pass
3-DH5	2478.874	2480.176	1.302	0.86	Pass

Test Graphs

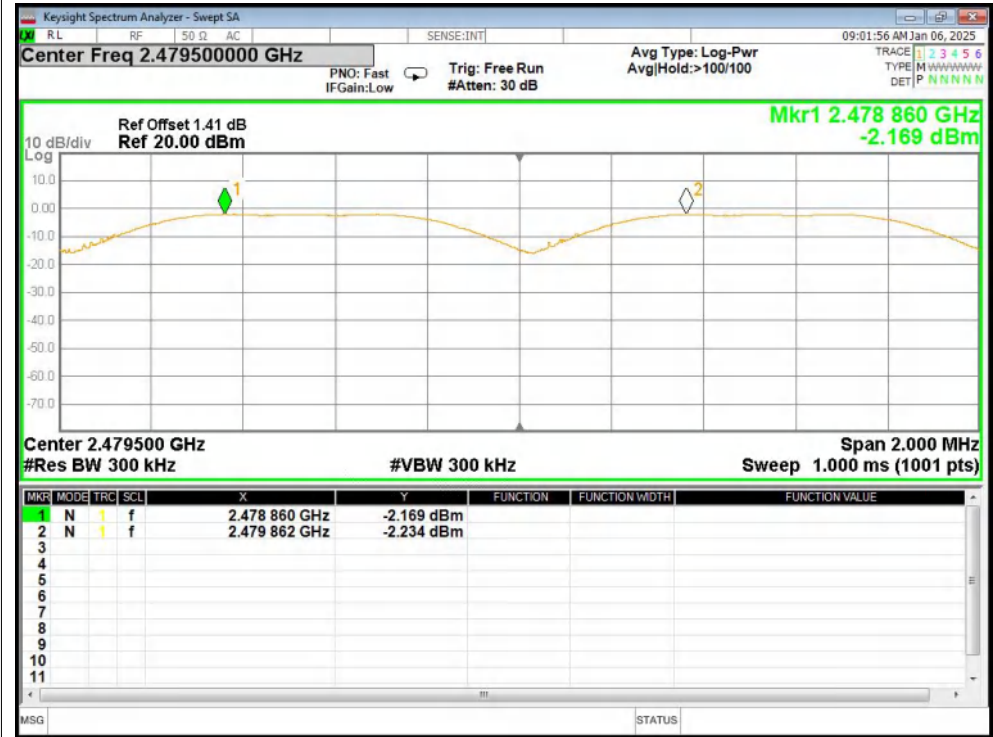
CFS NVNT 1-DH5 2402MHz Ant1



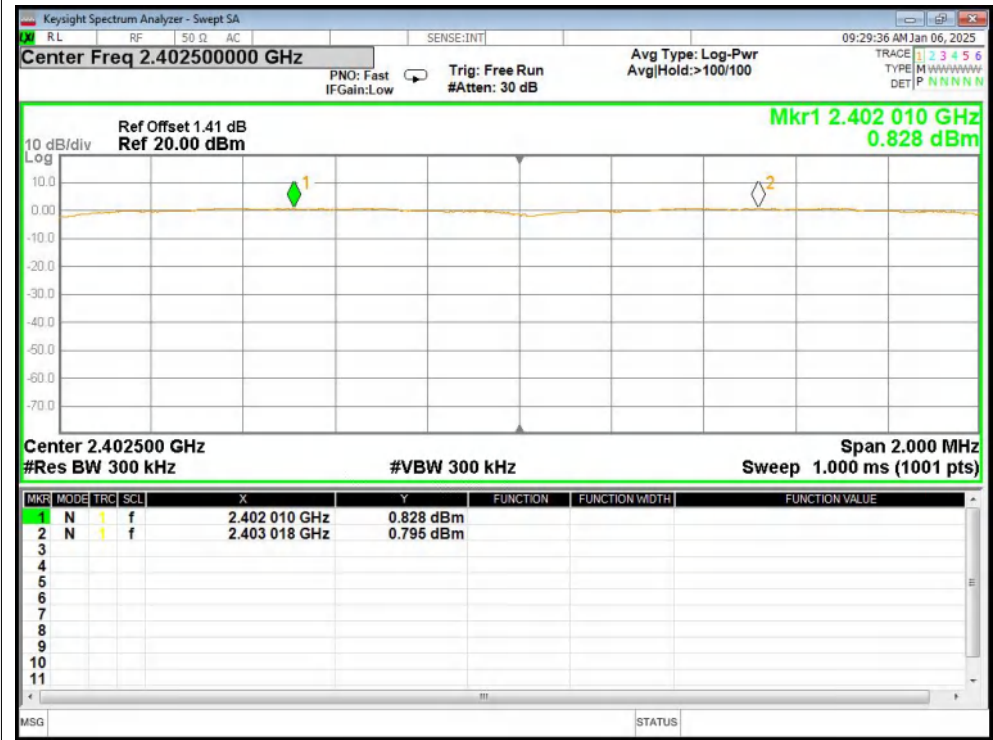
CFS NVNT 1-DH5 2441MHz Ant1



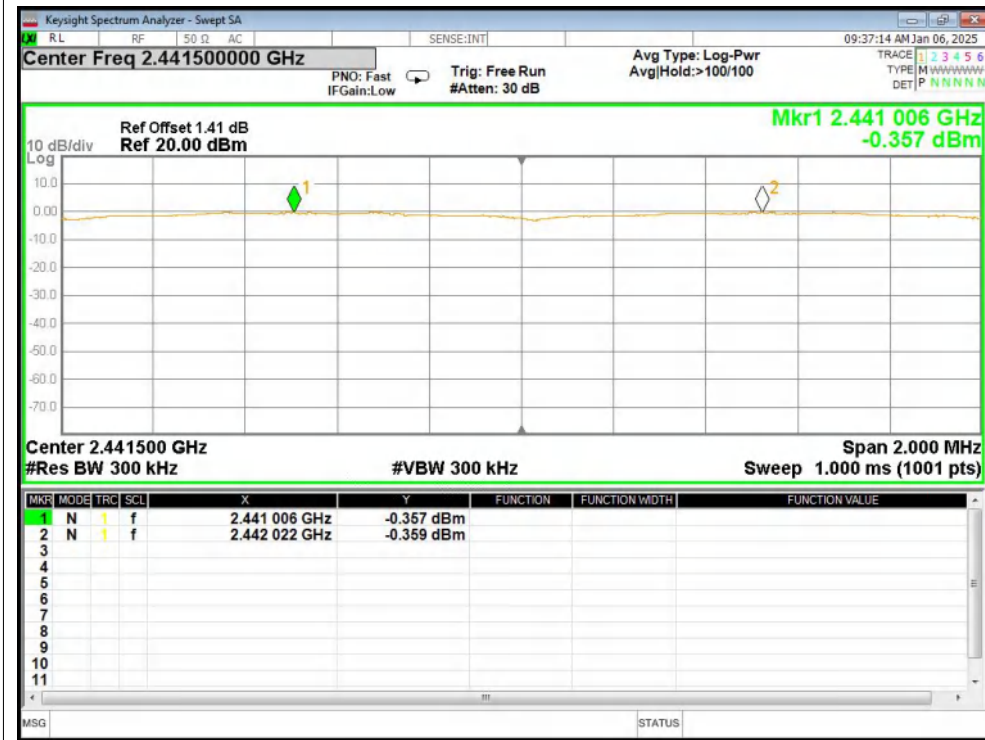
CFS NVNT 1-DH5 2480MHz Ant1



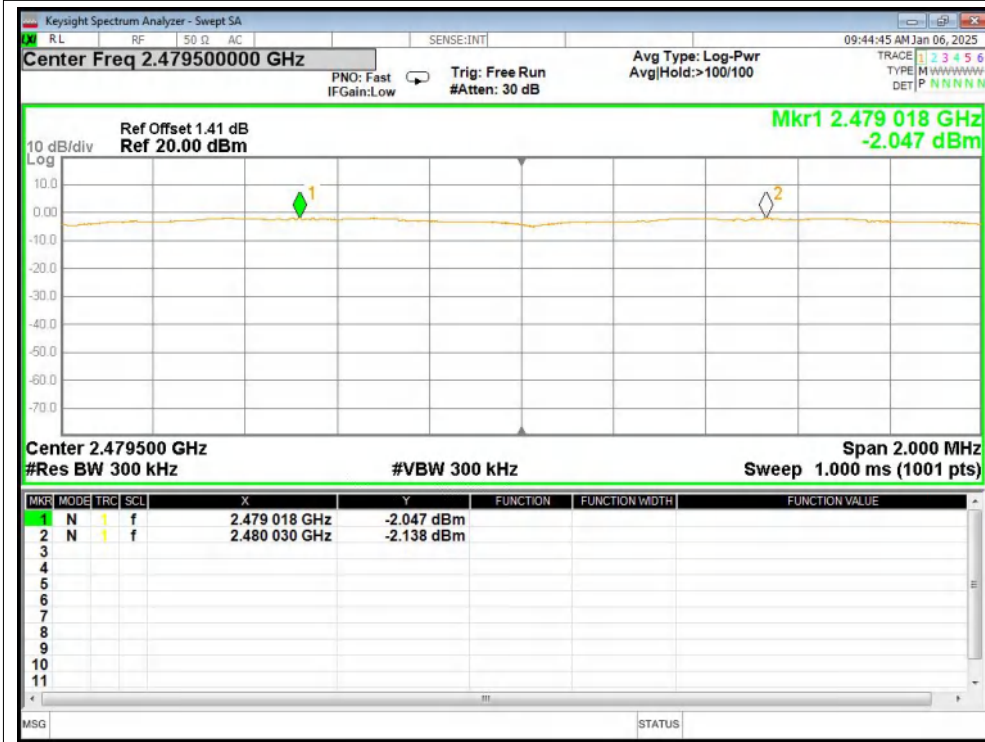
CFS NVNT 2-DH5 2402MHz Ant1



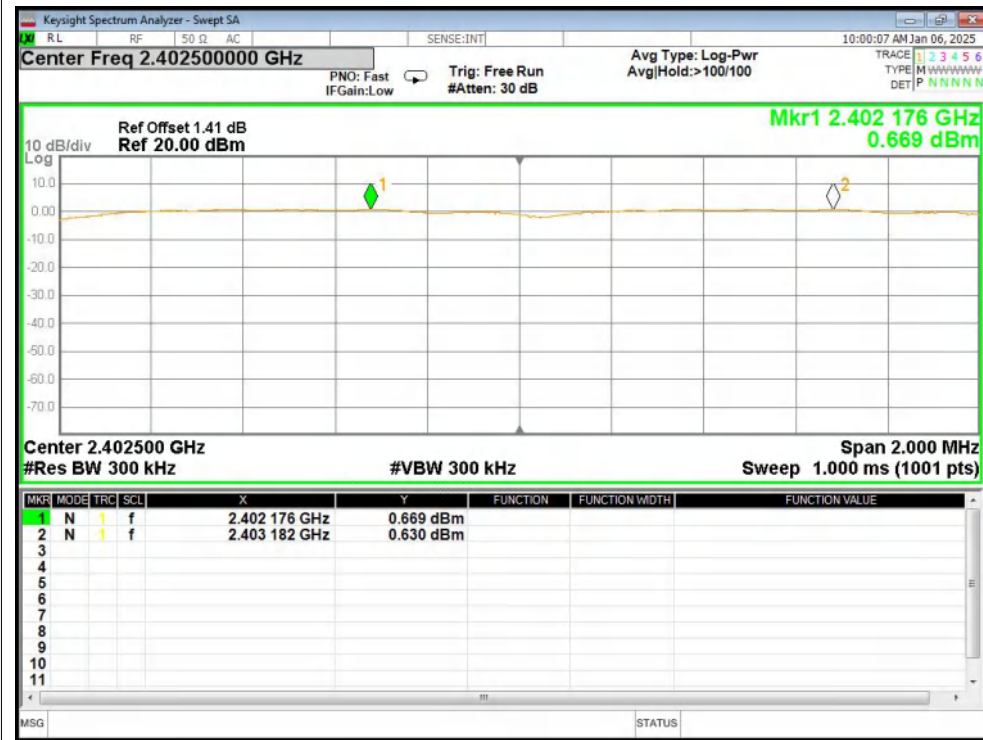
CFS NVNT 2-DH5 2441MHz Ant1



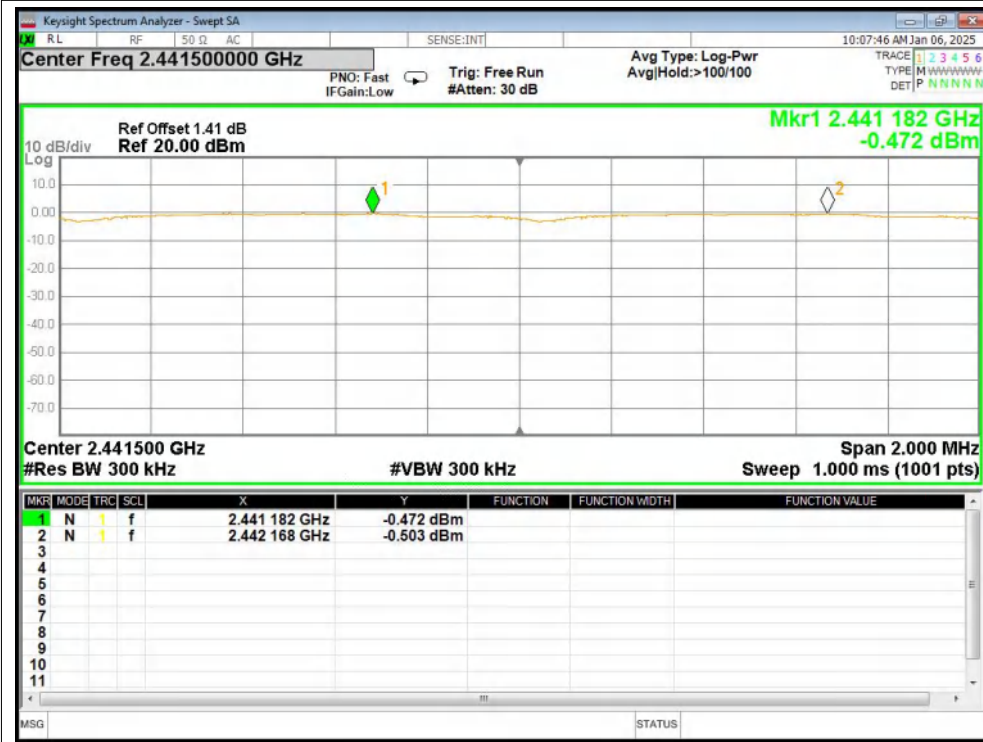
CFS NVNT 2-DH5 2480MHz Ant1



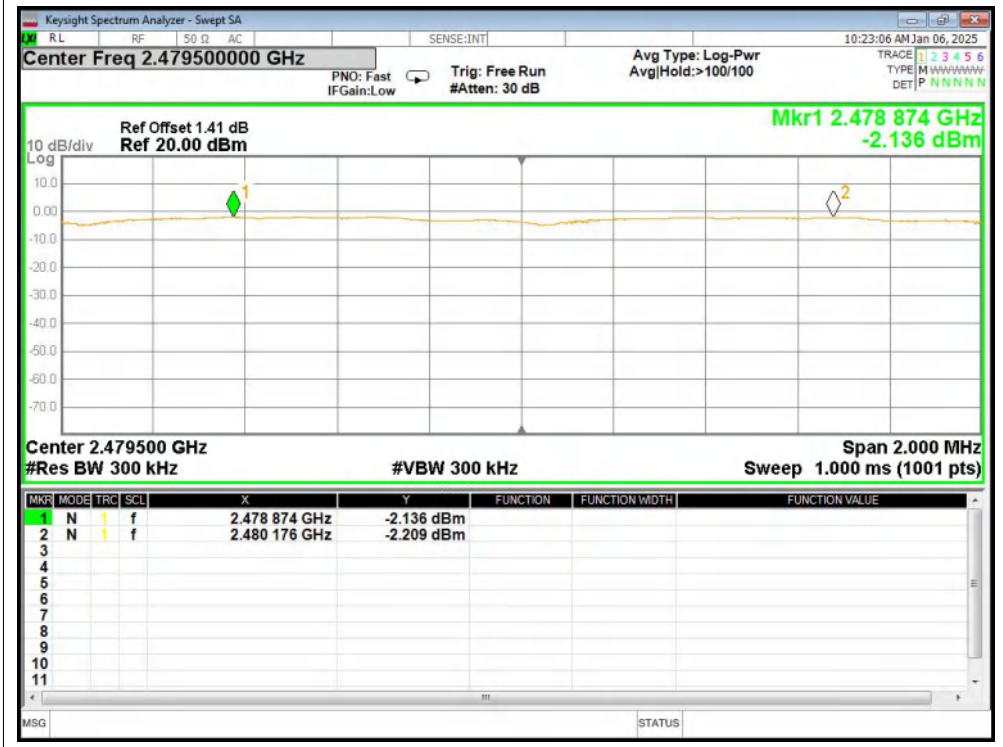
CFS NVNT 3-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2441MHz Ant1

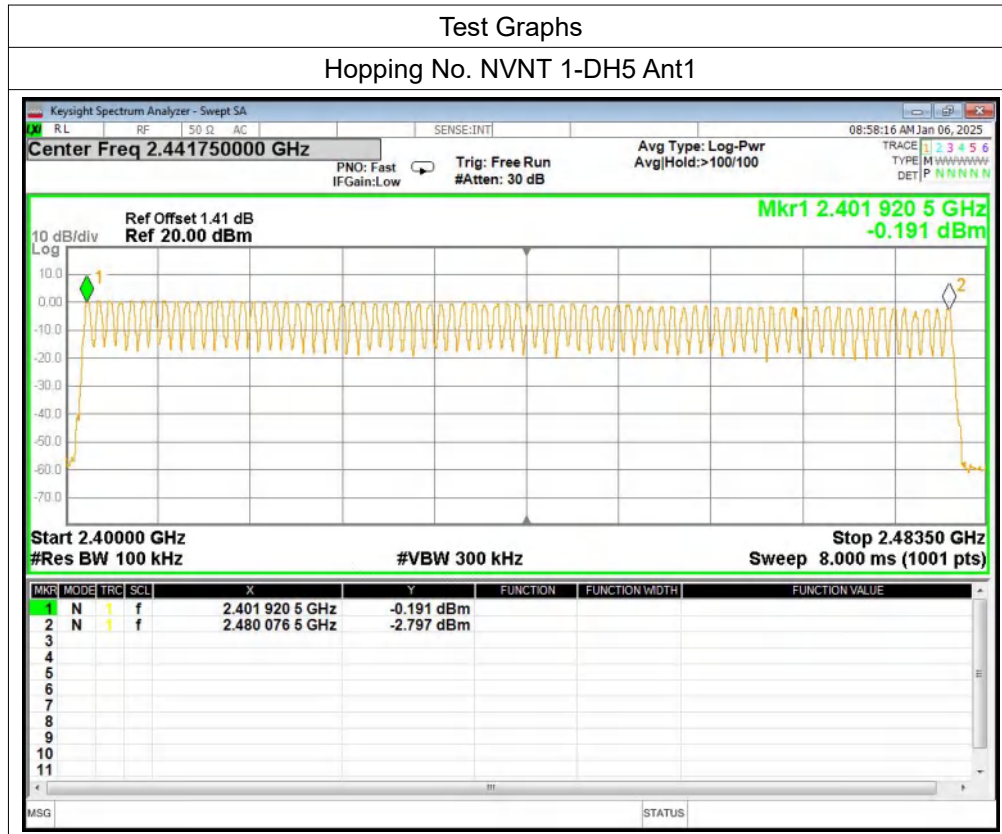


CFS NVNT 3-DH5 2480MHz Ant1

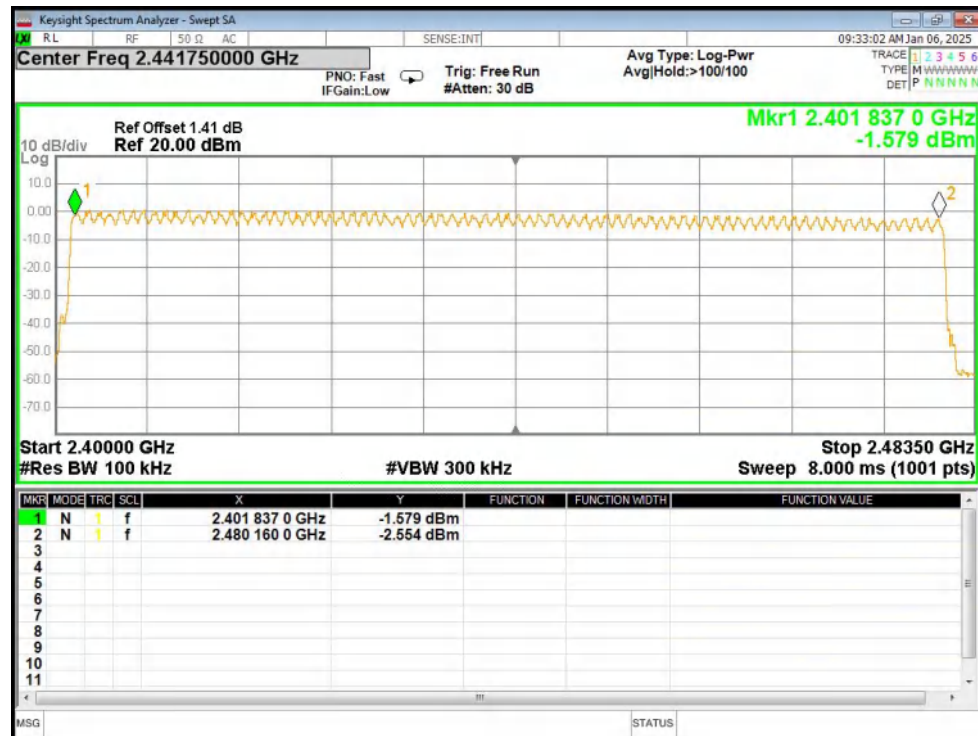


6. Number of Hopping Channel

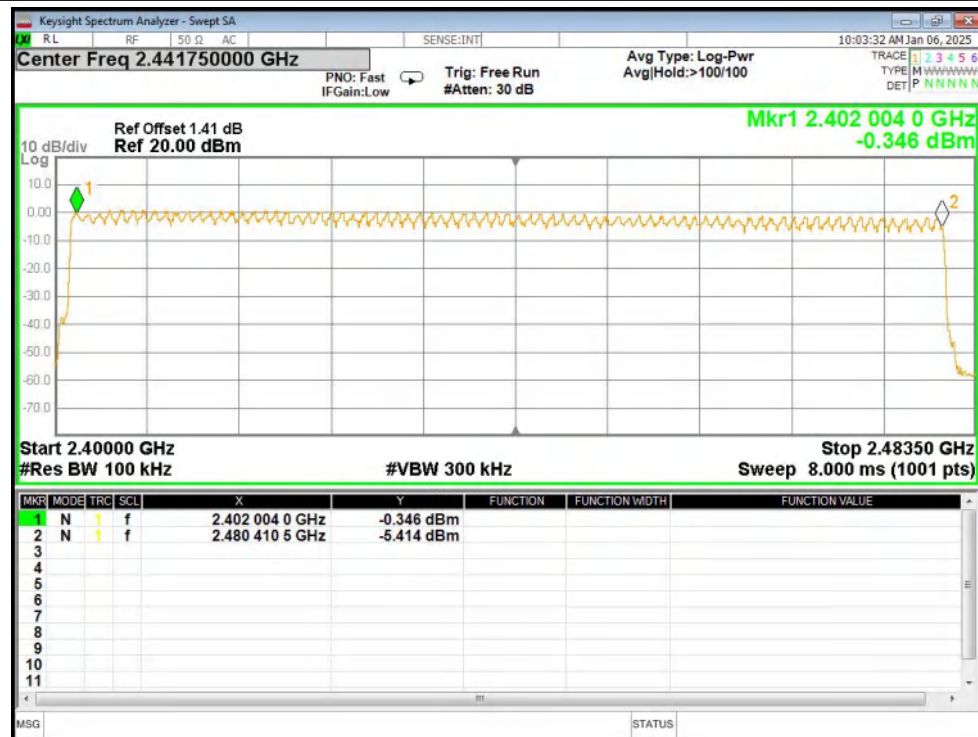
Mode	Hopping Number	Limit	Verdict
1-DH5	79	15	Pass
2-DH5	79	15	Pass
3-DH5	79	15	Pass



Hopping No. NVNT 2-DH5 Ant1



Hopping No. NVNT 3-DH5 Ant1

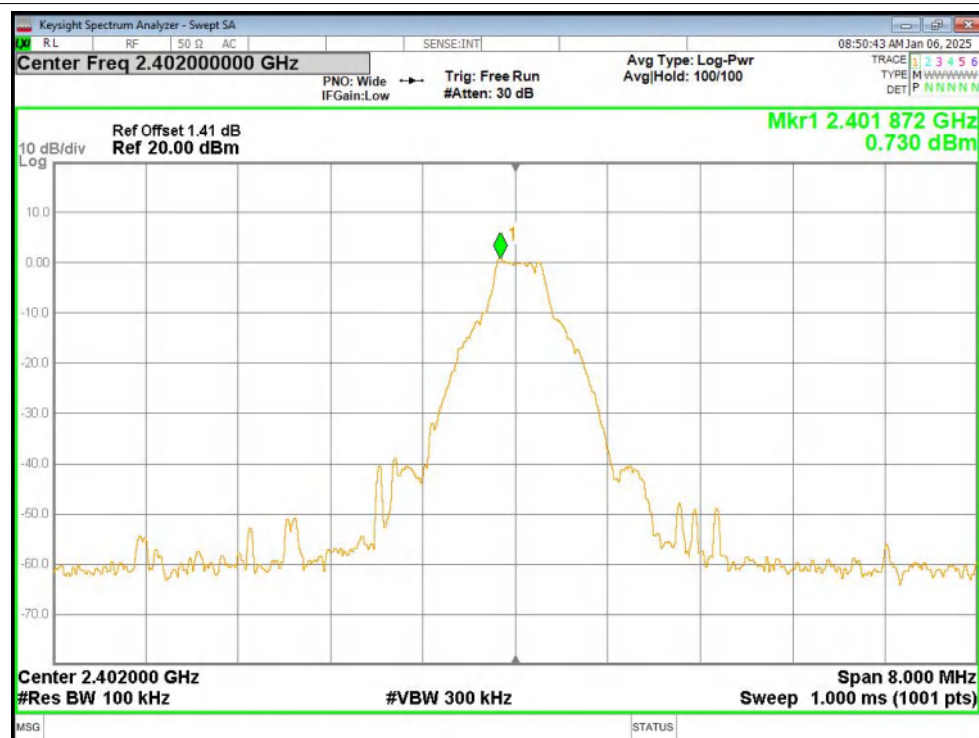


7.Band Edge

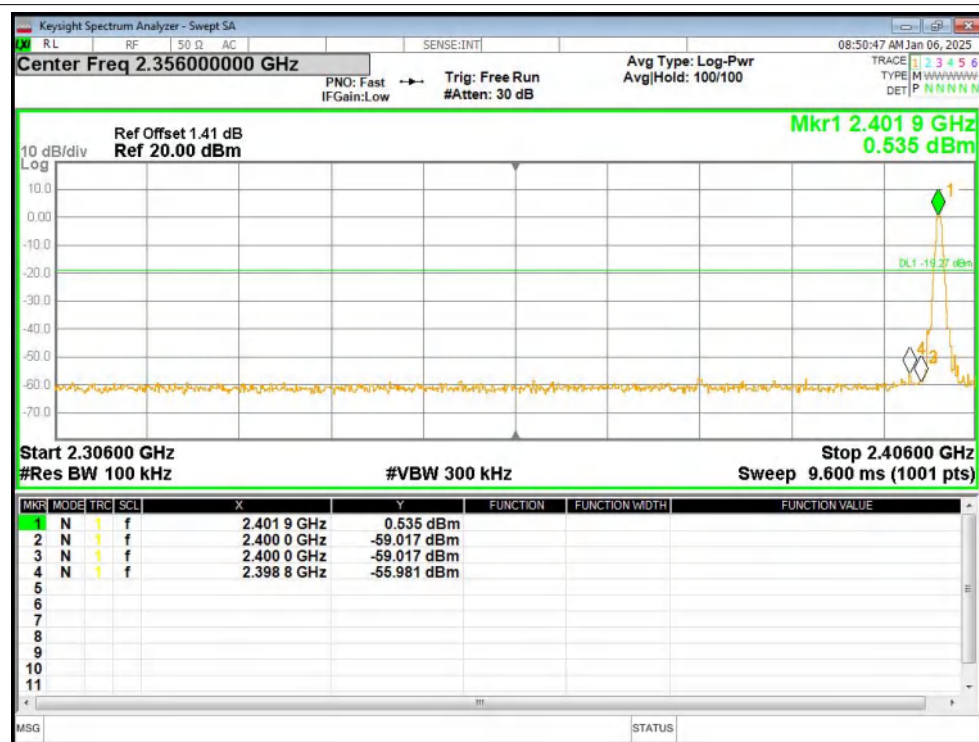
Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	No-Hopping	-56.71	-20	Pass
1-DH5	2480	No-Hopping	-55.8	-20	Pass
2-DH5	2402	No-Hopping	-55.04	-20	Pass
2-DH5	2480	No-Hopping	-54.77	-20	Pass
3-DH5	2402	No-Hopping	-52.02	-20	Pass
3-DH5	2480	No-Hopping	-55.95	-20	Pass

Test Graphs

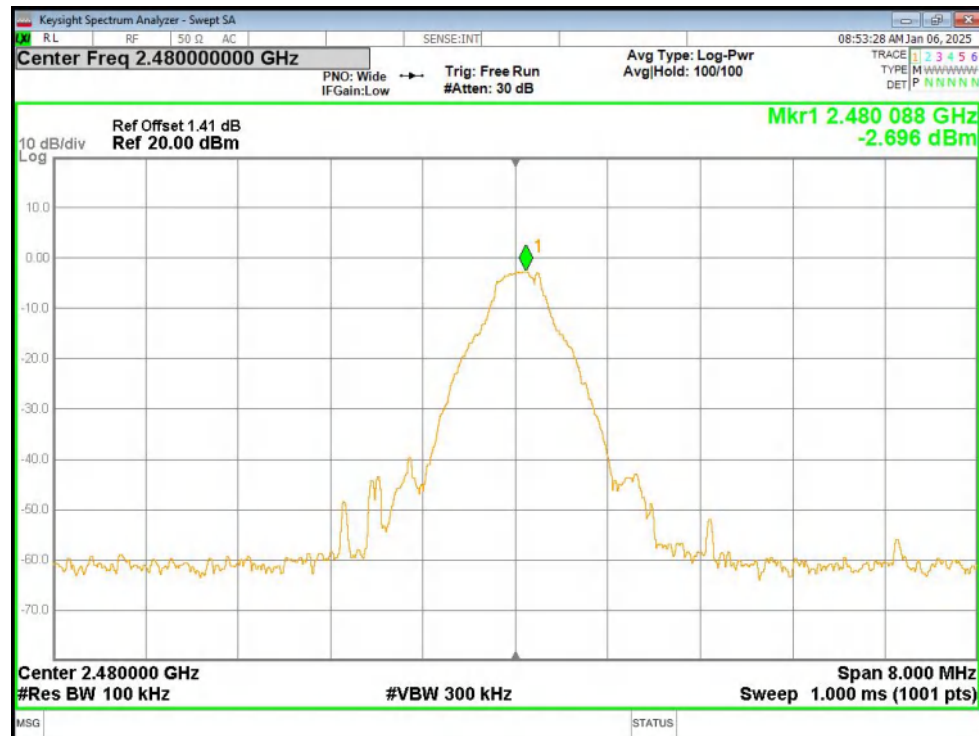
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



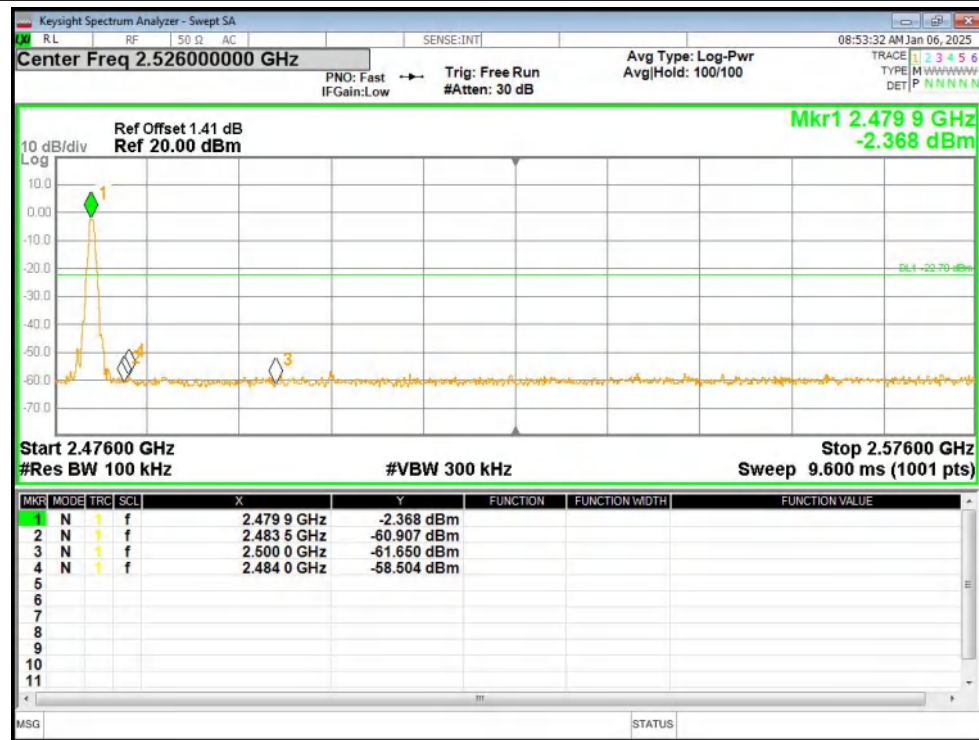
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



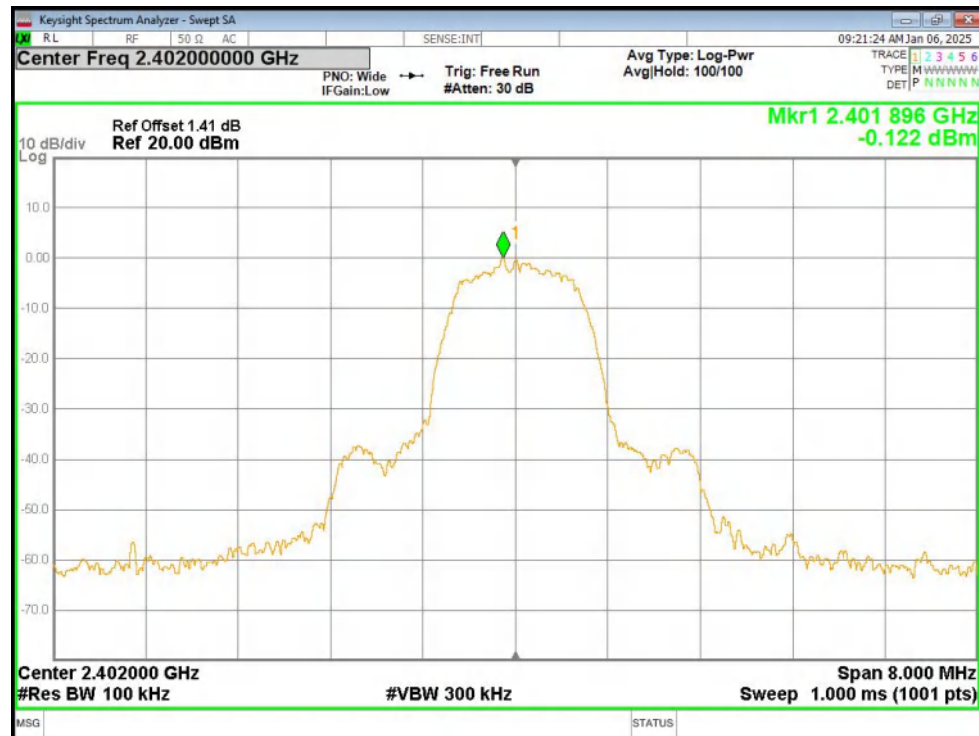
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



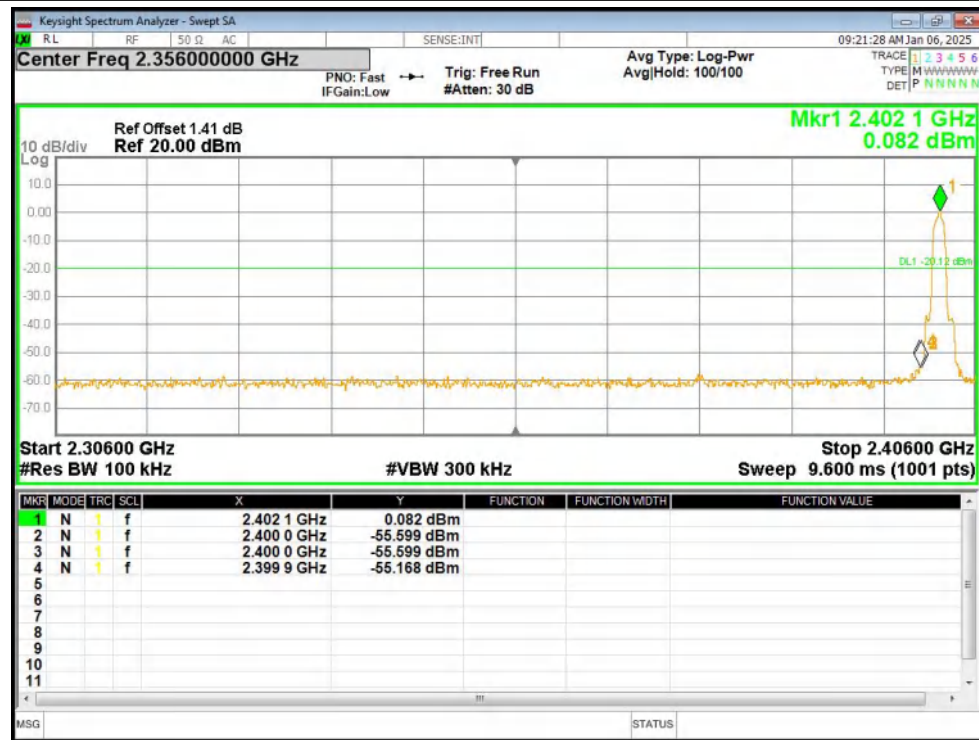
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



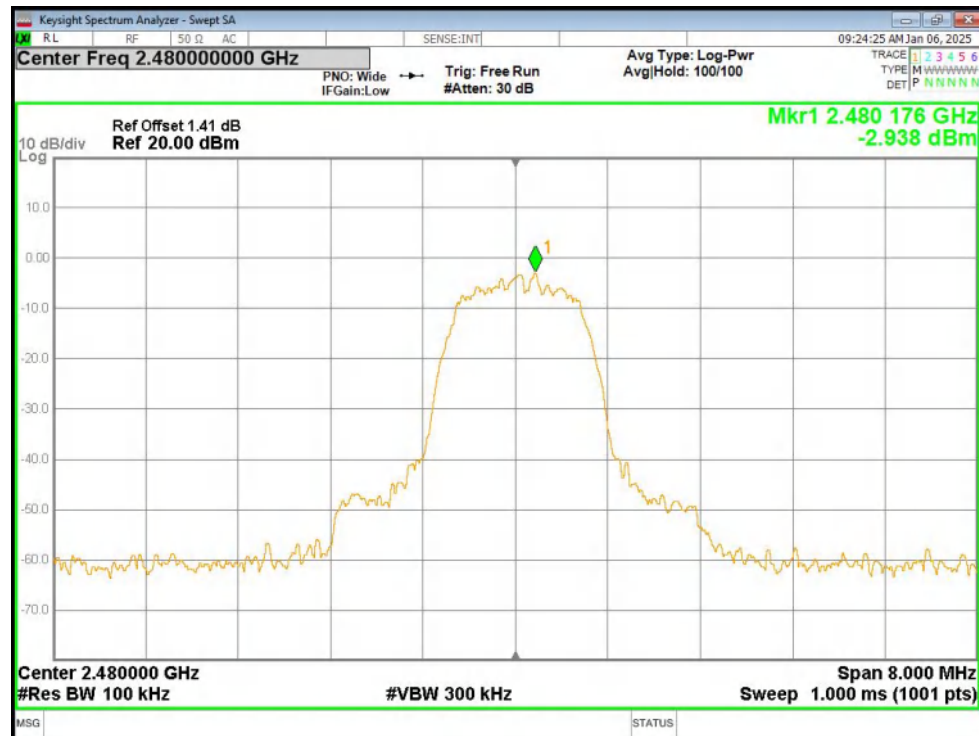
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



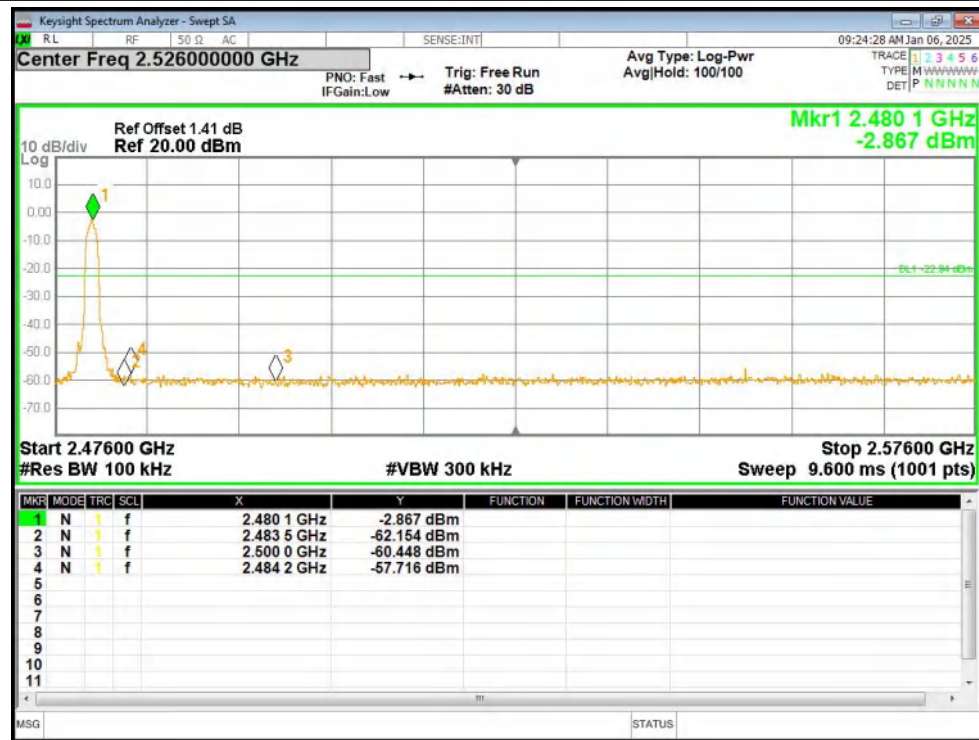
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



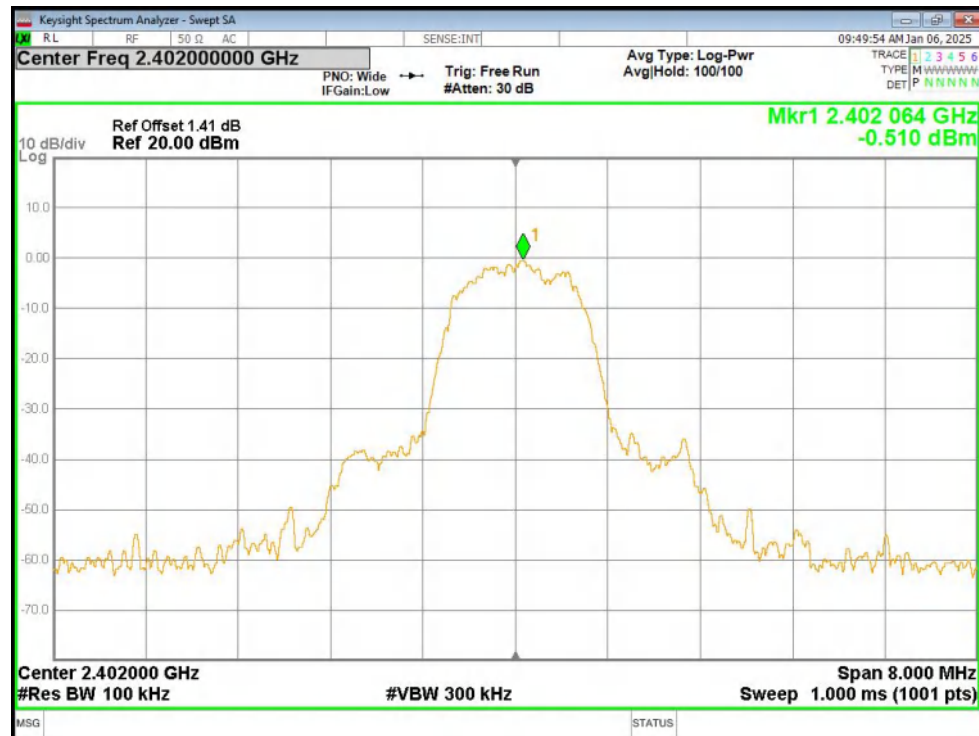
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



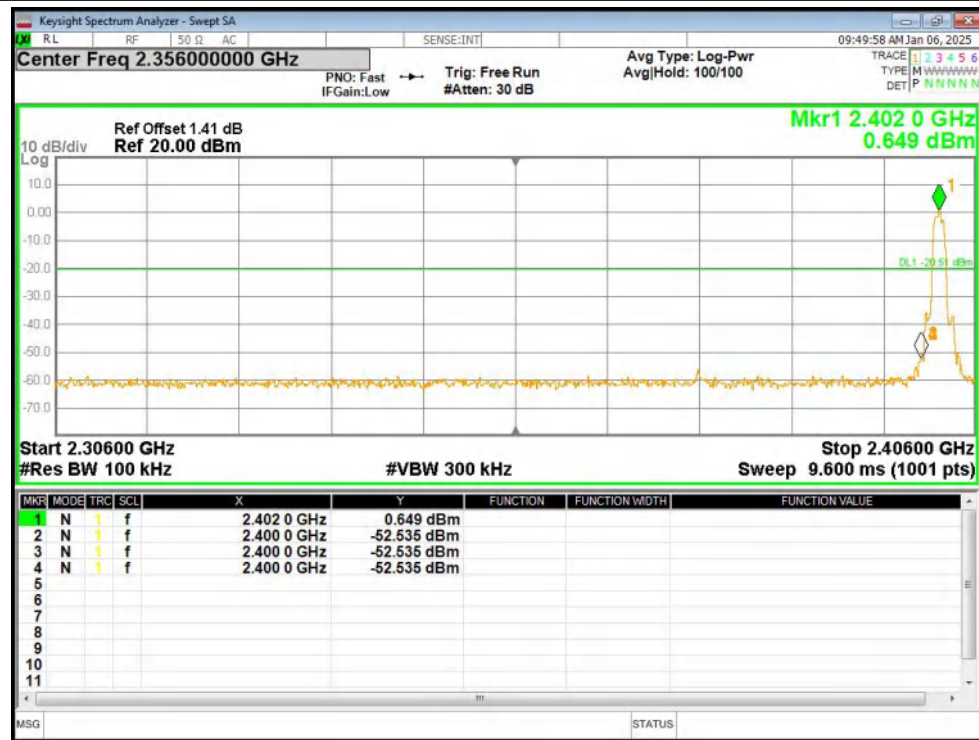
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



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



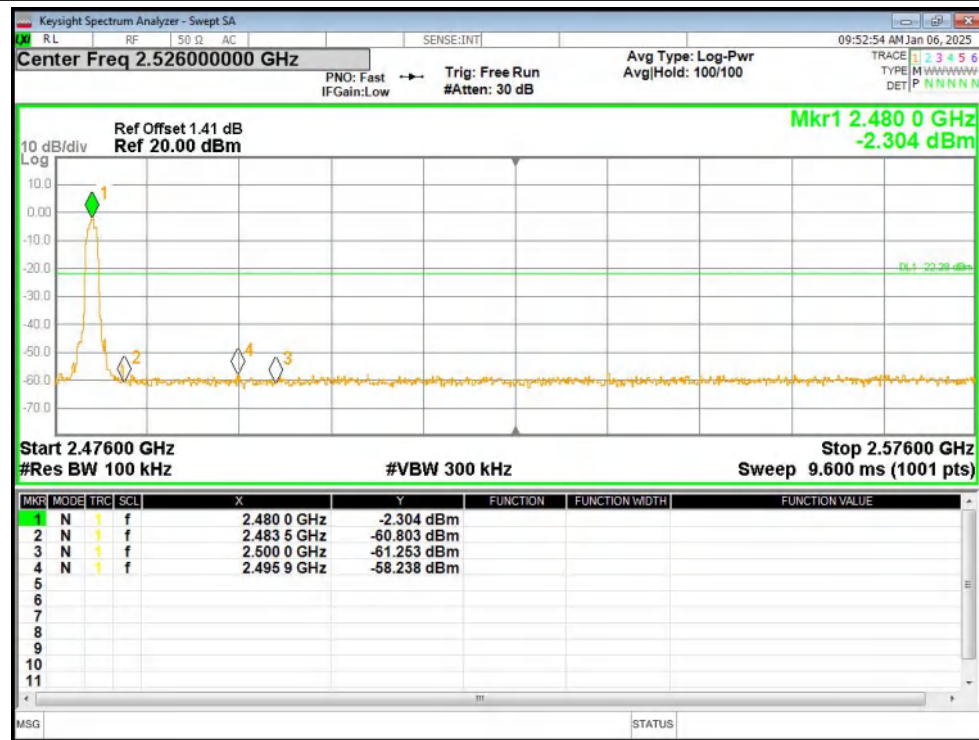
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



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



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

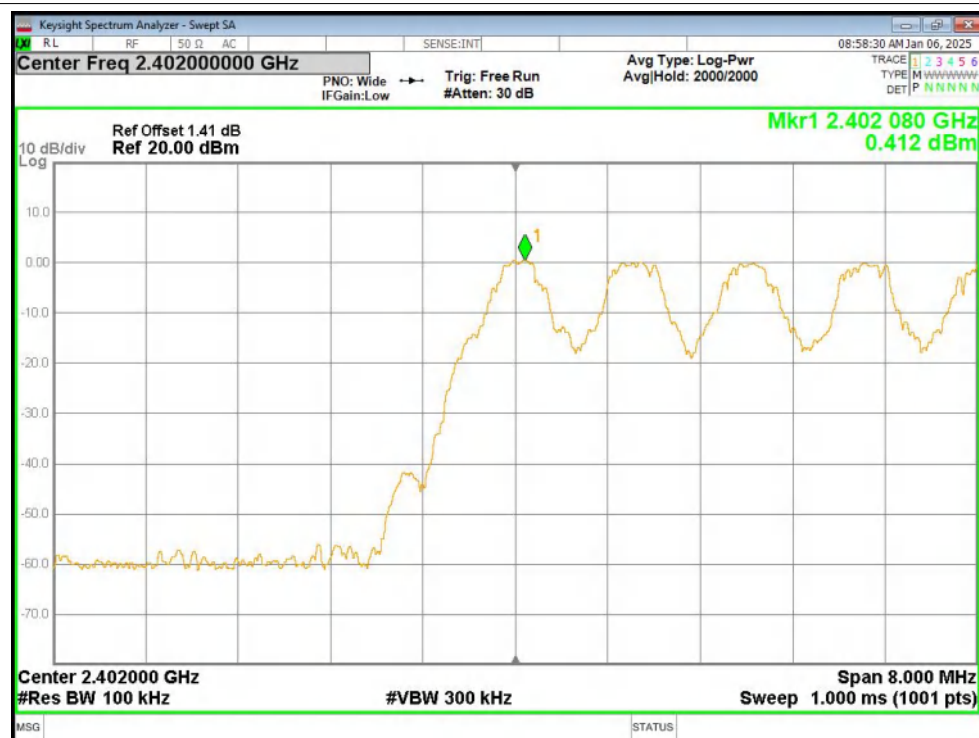


8.Band Edge(Hopping)

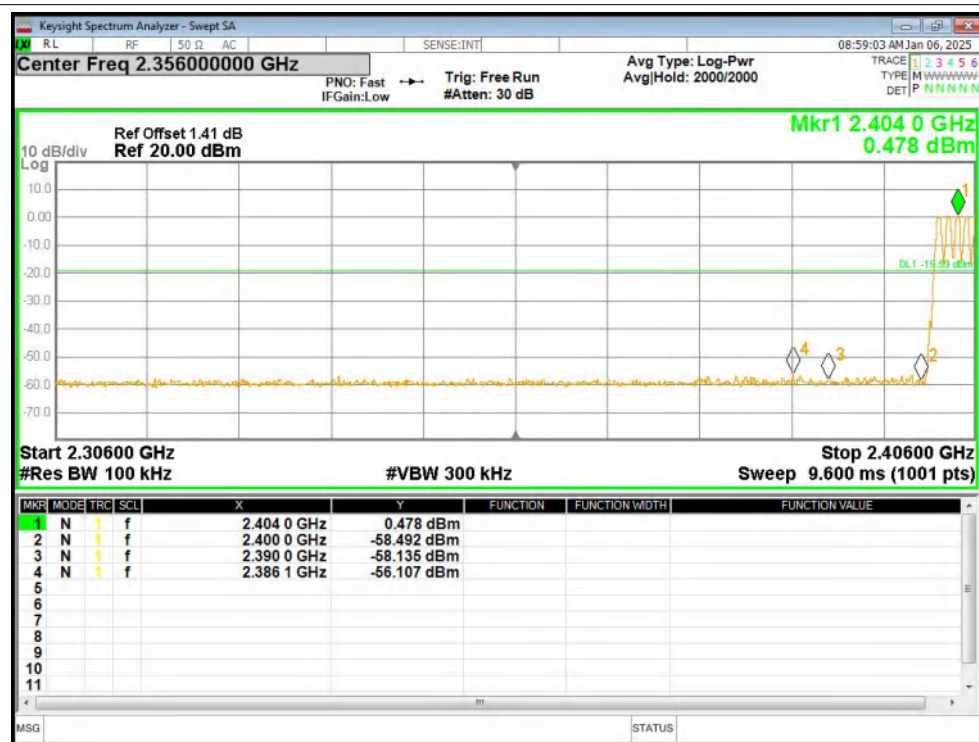
Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	Hopping	-56.51	-20	Pass
1-DH5	2480	Hopping	-55.22	-20	Pass
2-DH5	2402	Hopping	-56.47	-20	Pass
2-DH5	2480	Hopping	-54.55	-20	Pass
3-DH5	2402	Hopping	-57.97	-20	Pass
3-DH5	2480	Hopping	-54.99	-20	Pass

Test Graphs

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



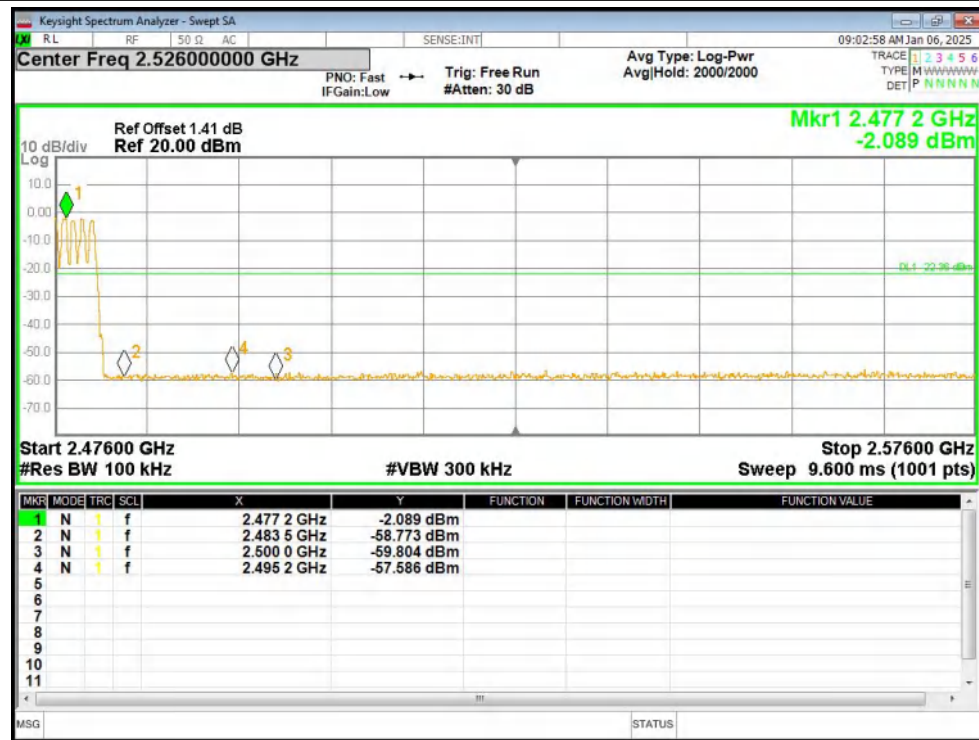
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



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



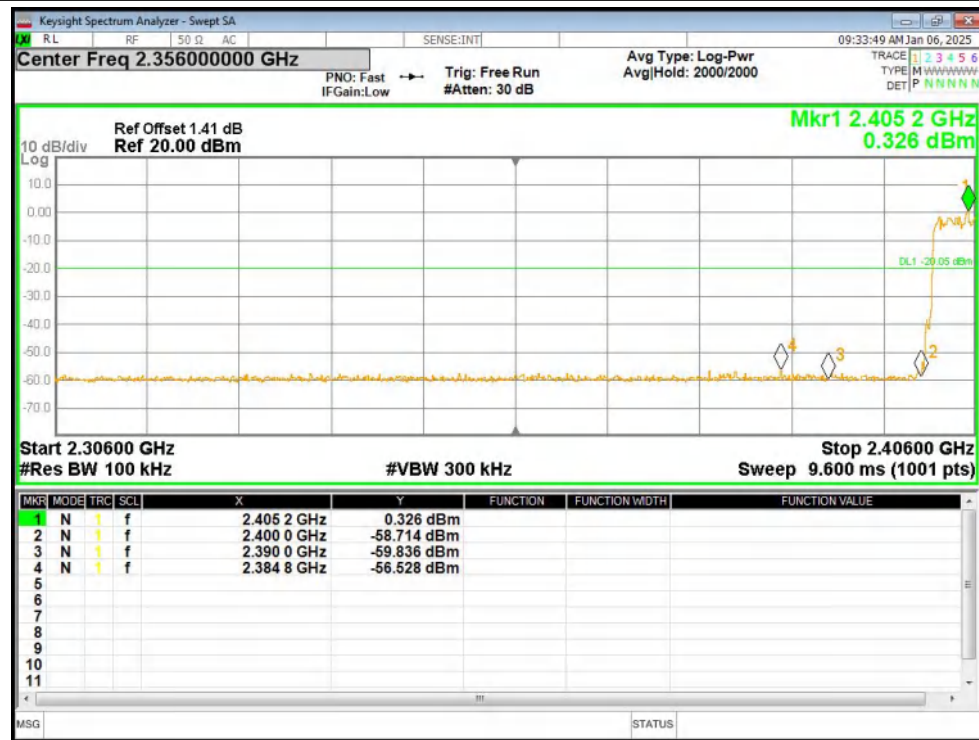
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



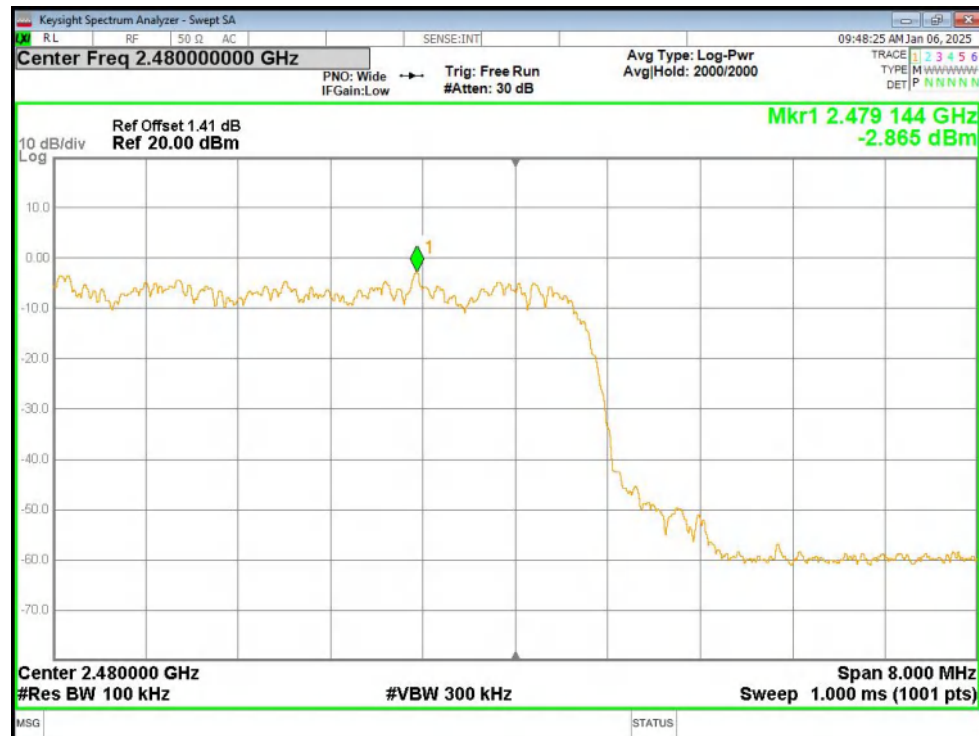
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



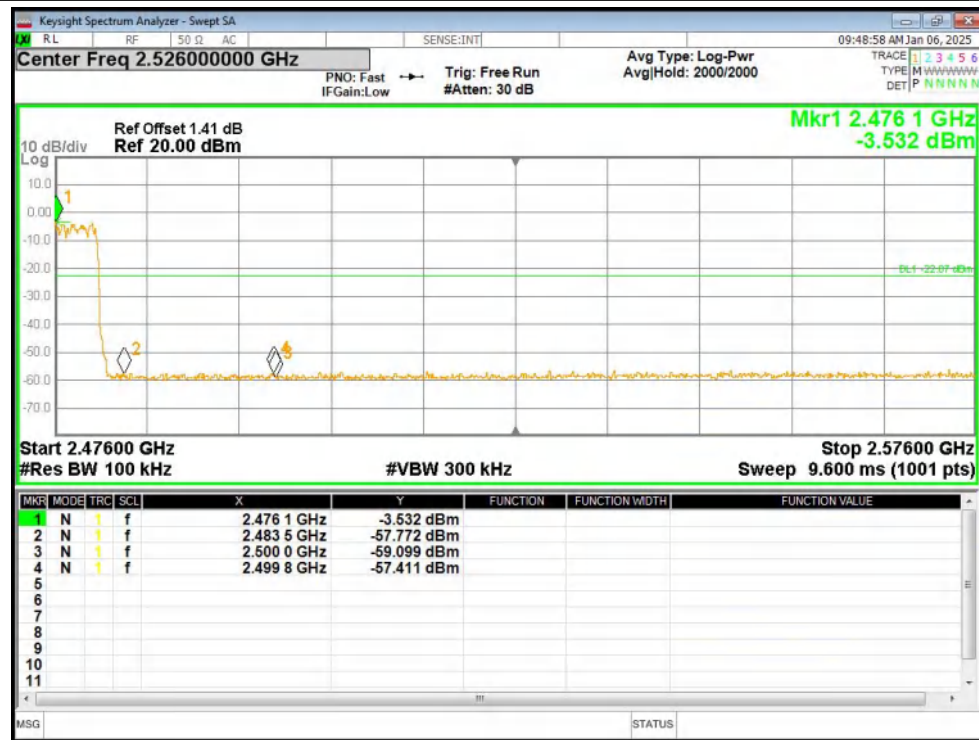
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



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



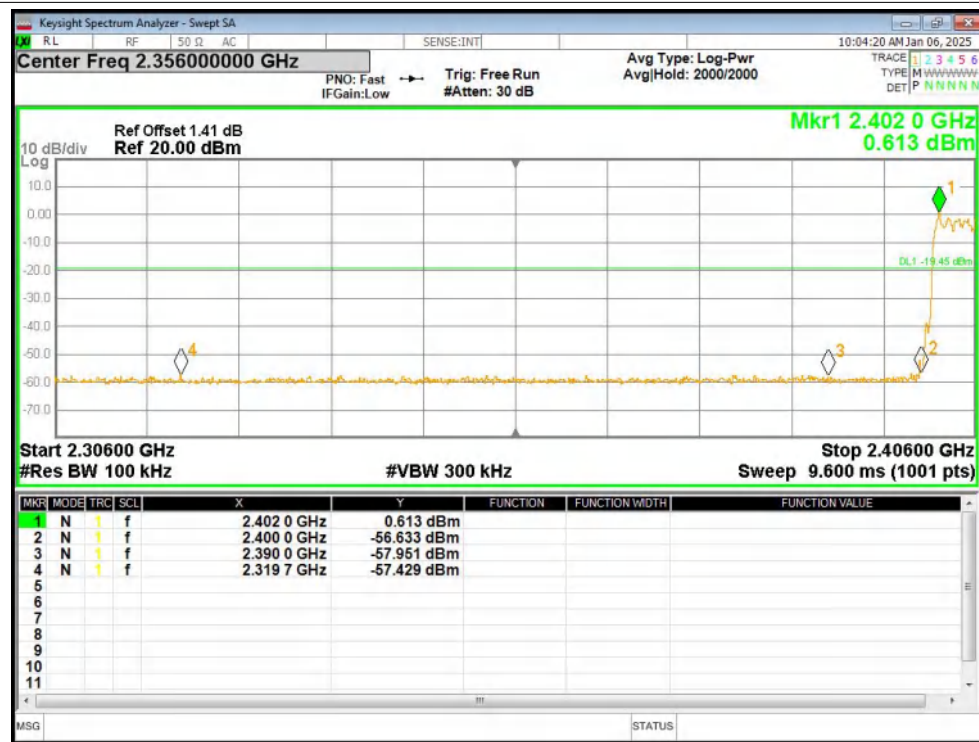
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



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



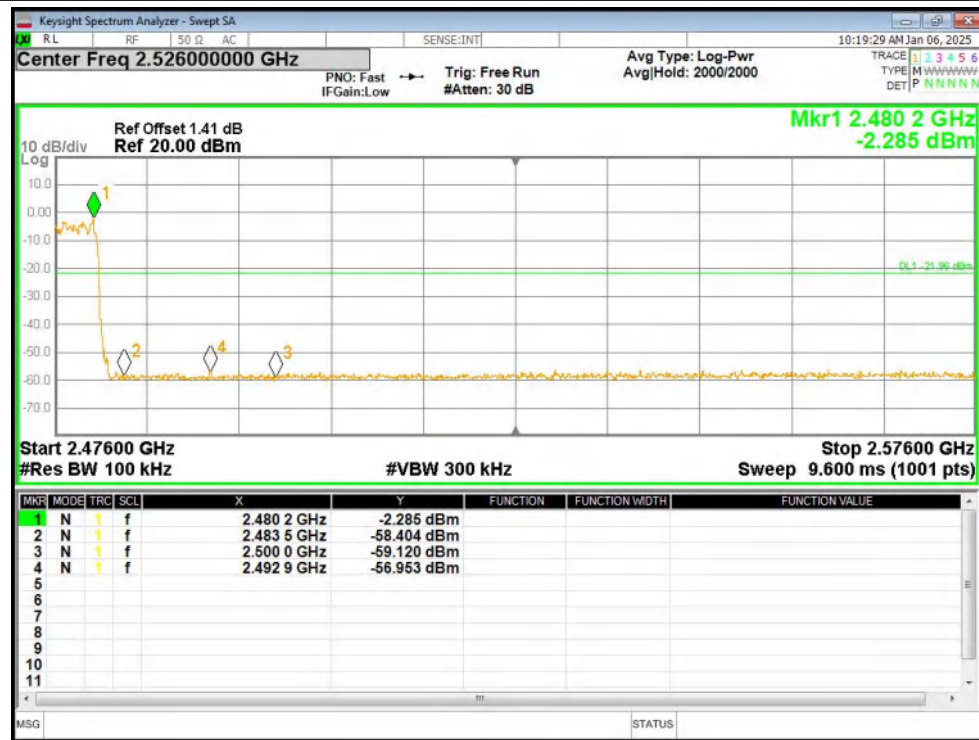
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



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



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

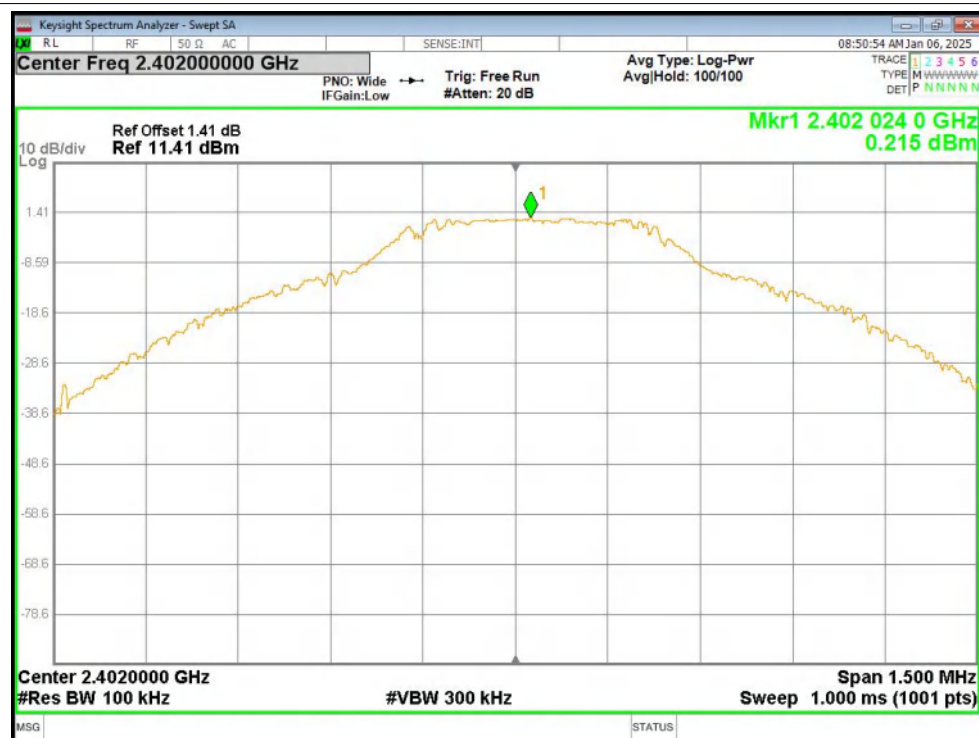


9. Conducted RF Spurious Emission

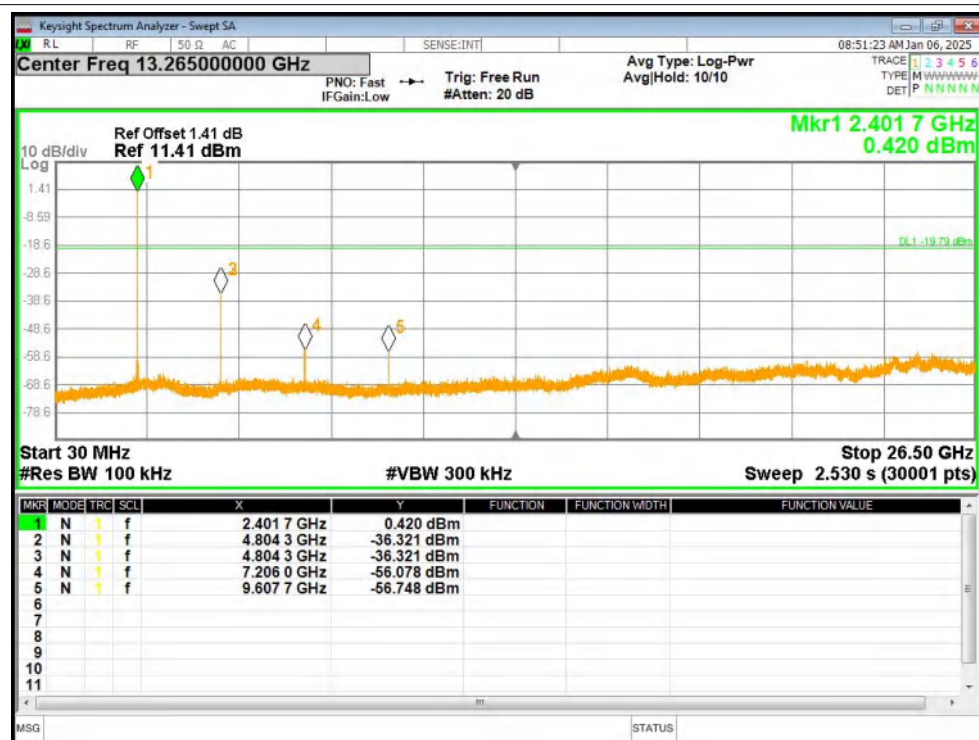
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	-36.54	-20	Pass
1-DH5	2441	-36.84	-20	Pass
1-DH5	2480	-38.98	-20	Pass
2-DH5	2402	-36.9	-20	Pass
2-DH5	2441	-40.67	-20	Pass
2-DH5	2480	-41.12	-20	Pass
3-DH5	2402	-37.03	-20	Pass
3-DH5	2441	-40.2	-20	Pass
3-DH5	2480	-36.58	-20	Pass

Test Graphs

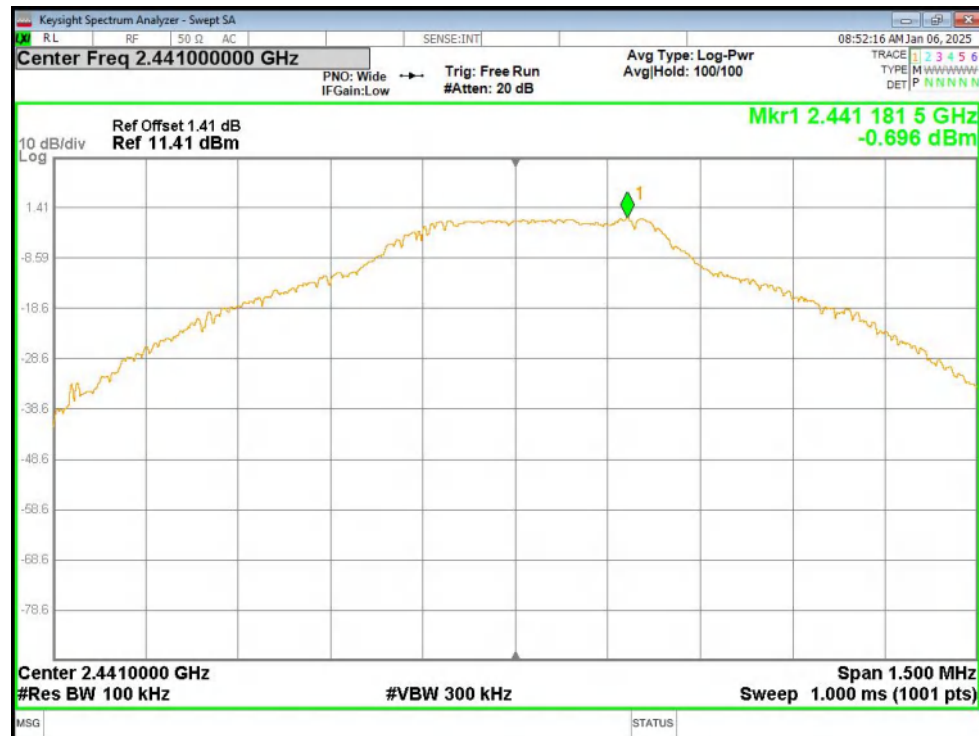
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



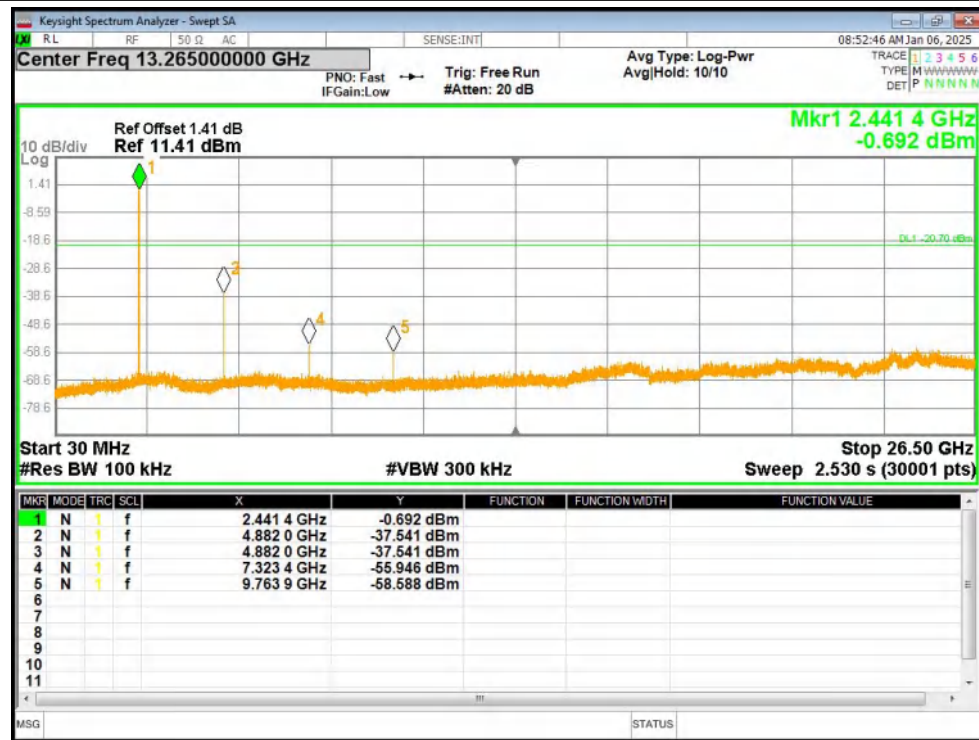
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



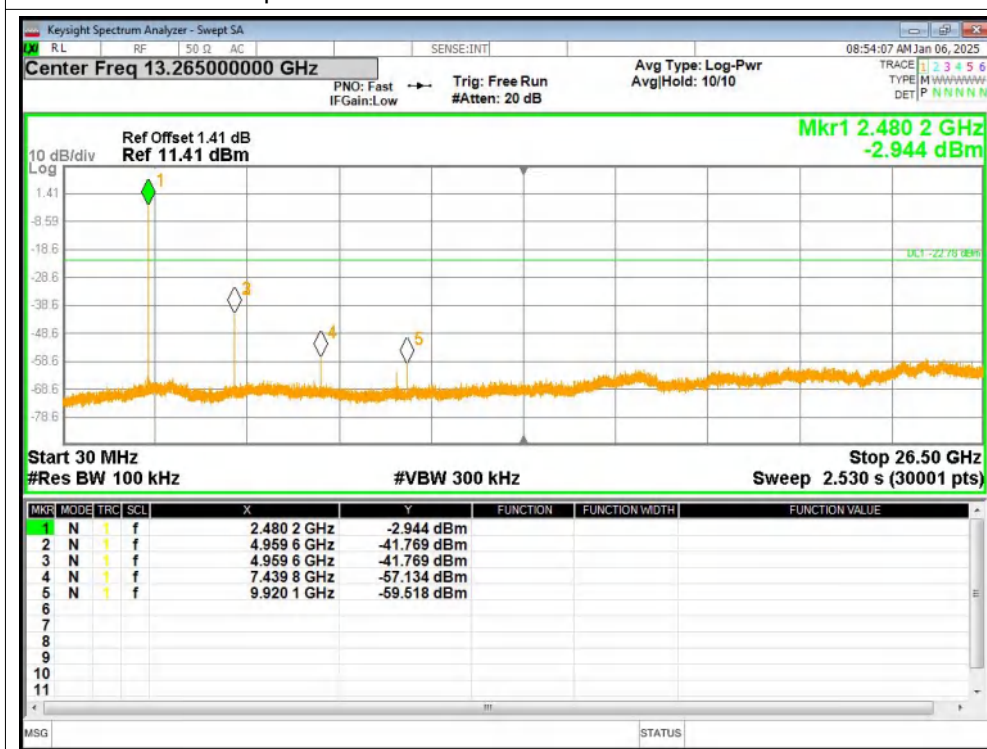
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



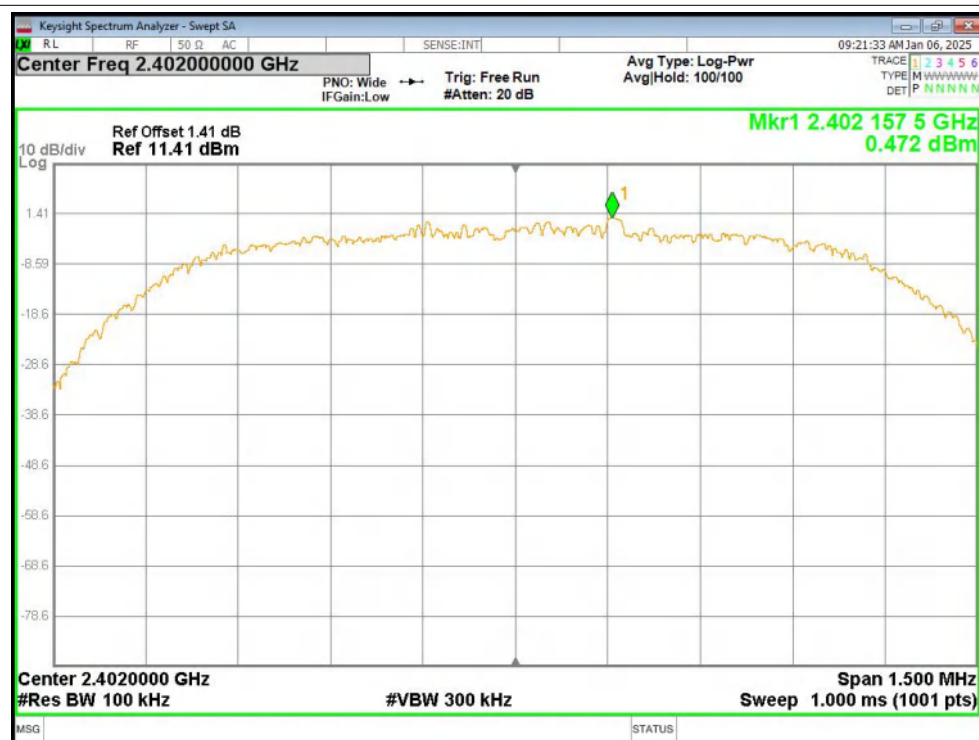
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



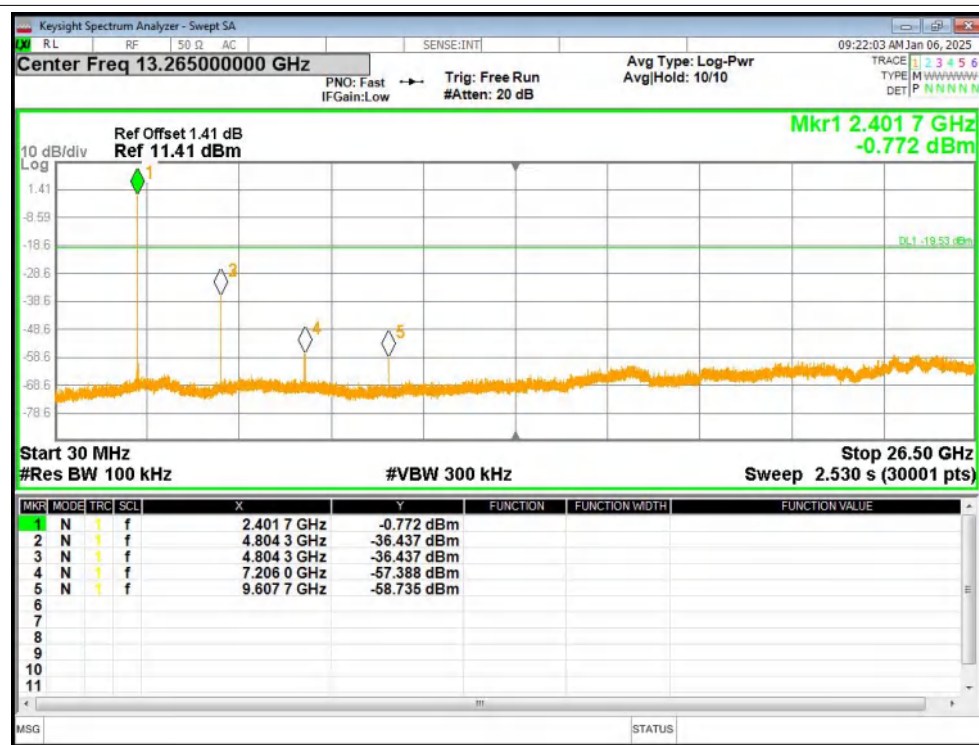
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



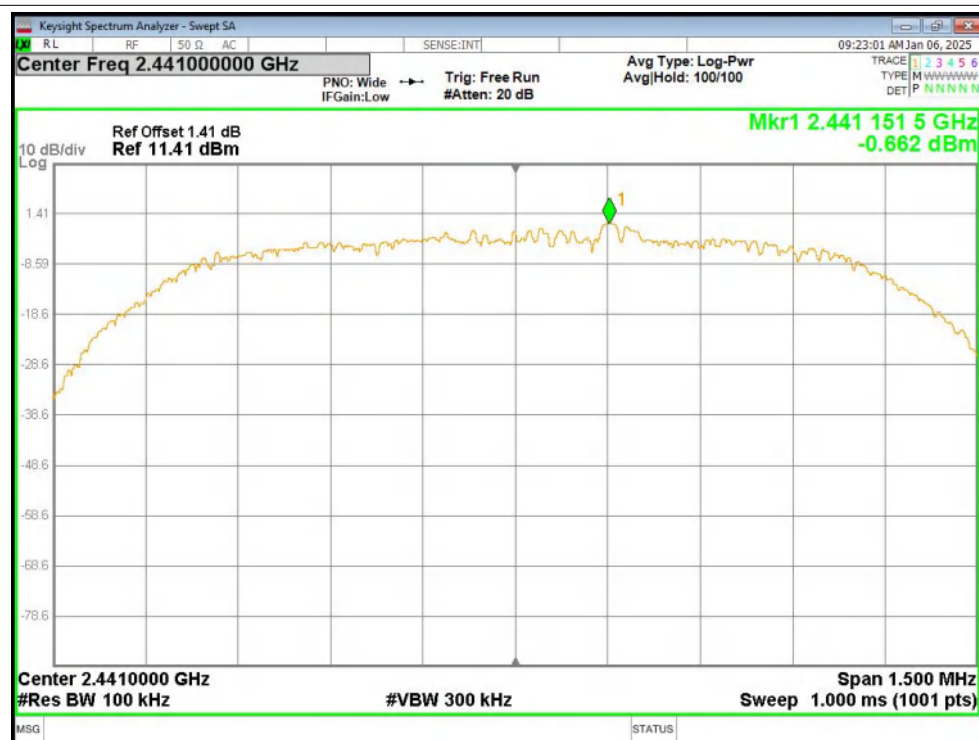
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



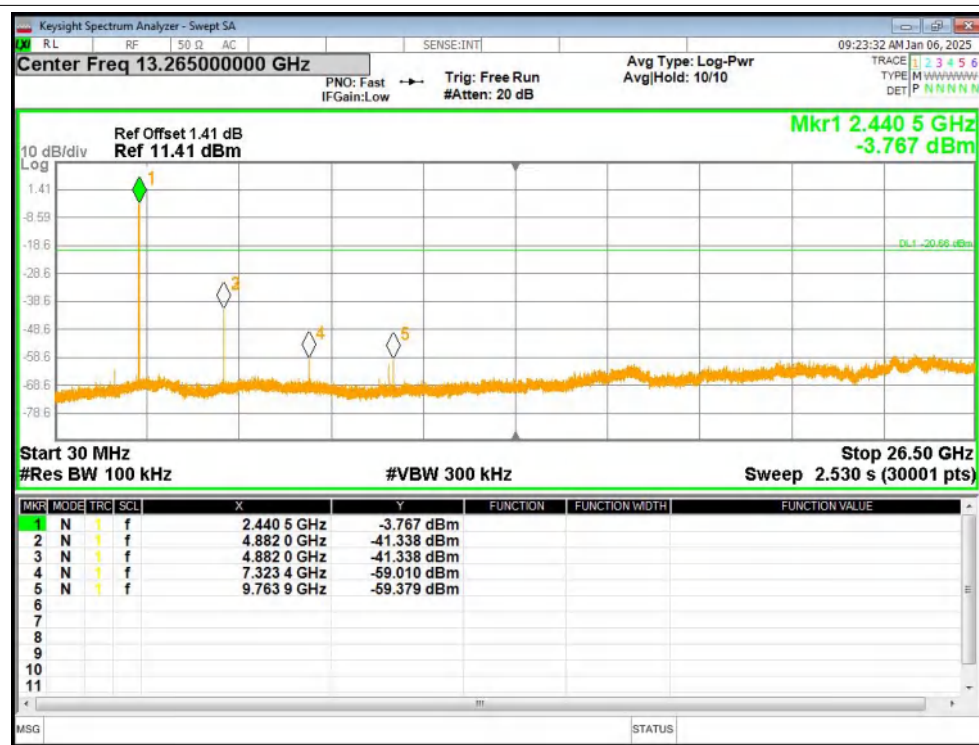
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



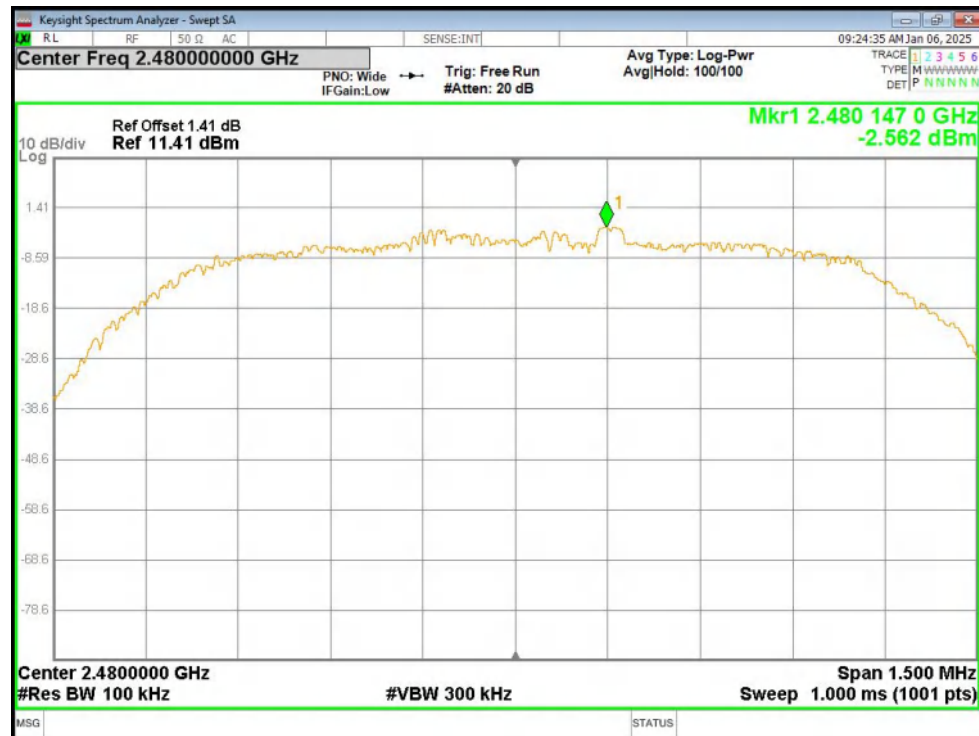
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



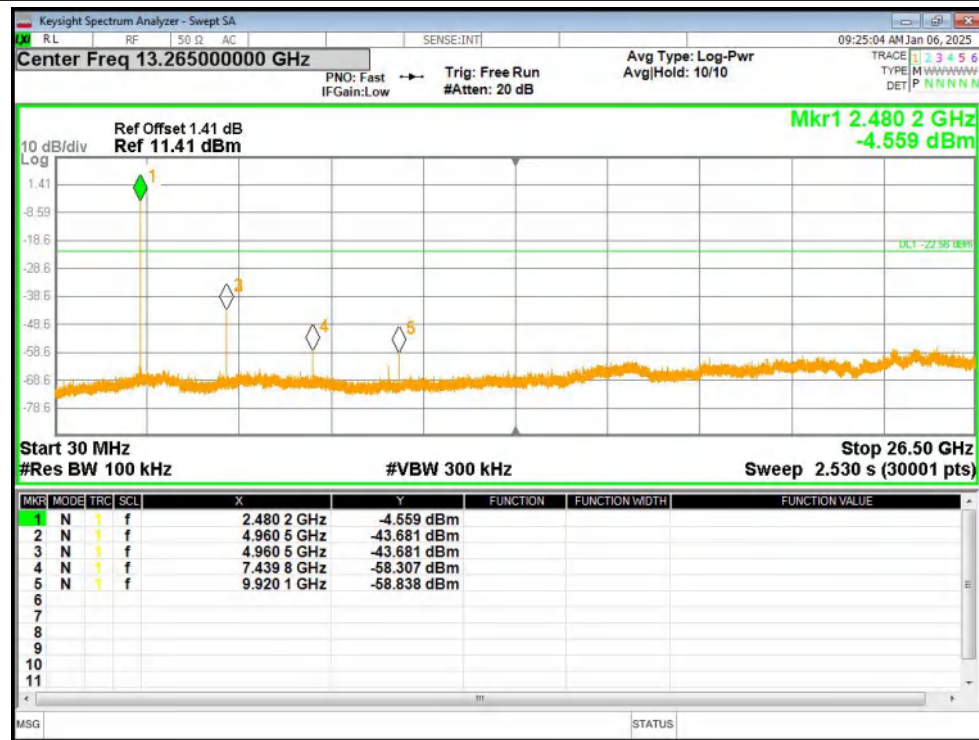
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



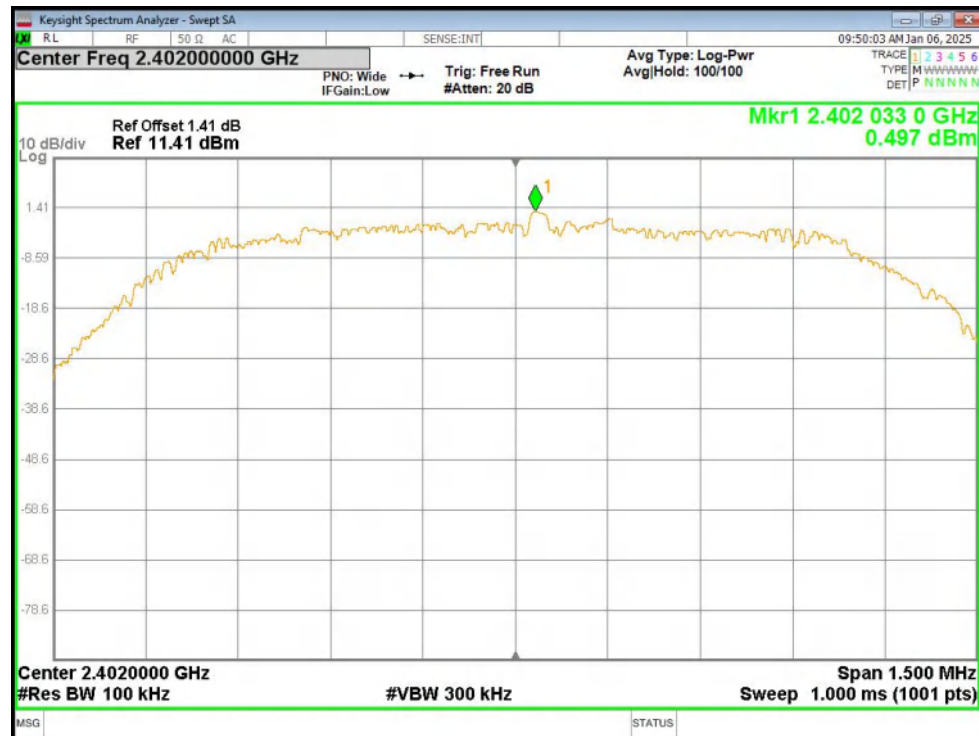
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



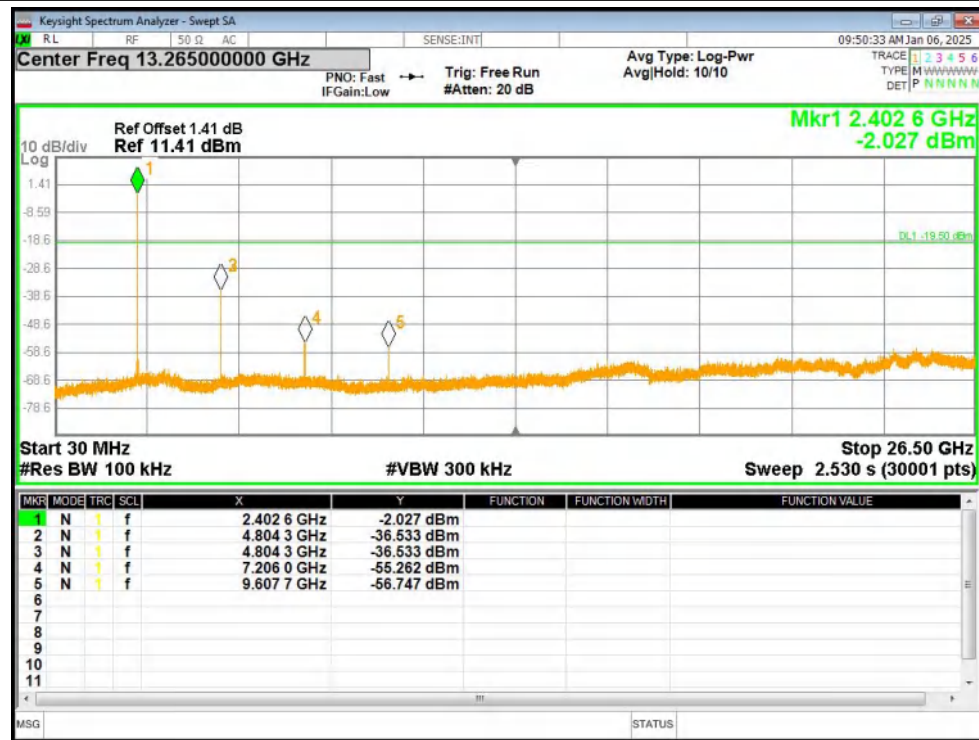
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



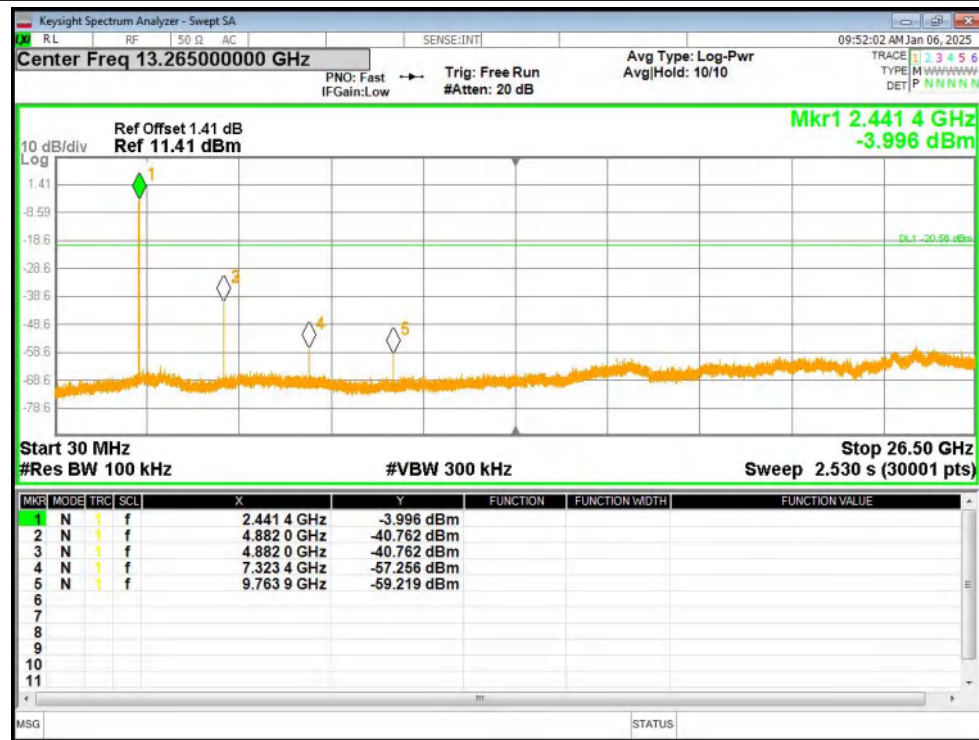
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



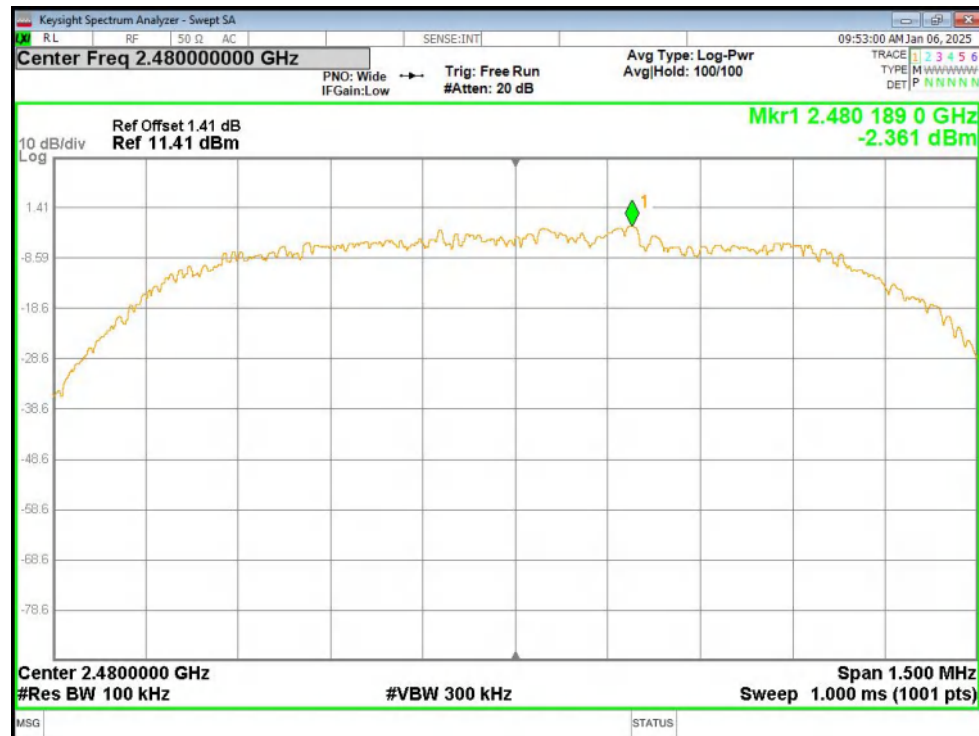
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

