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FCC_BT(Part15.247) Test Data

1.Dwell Time

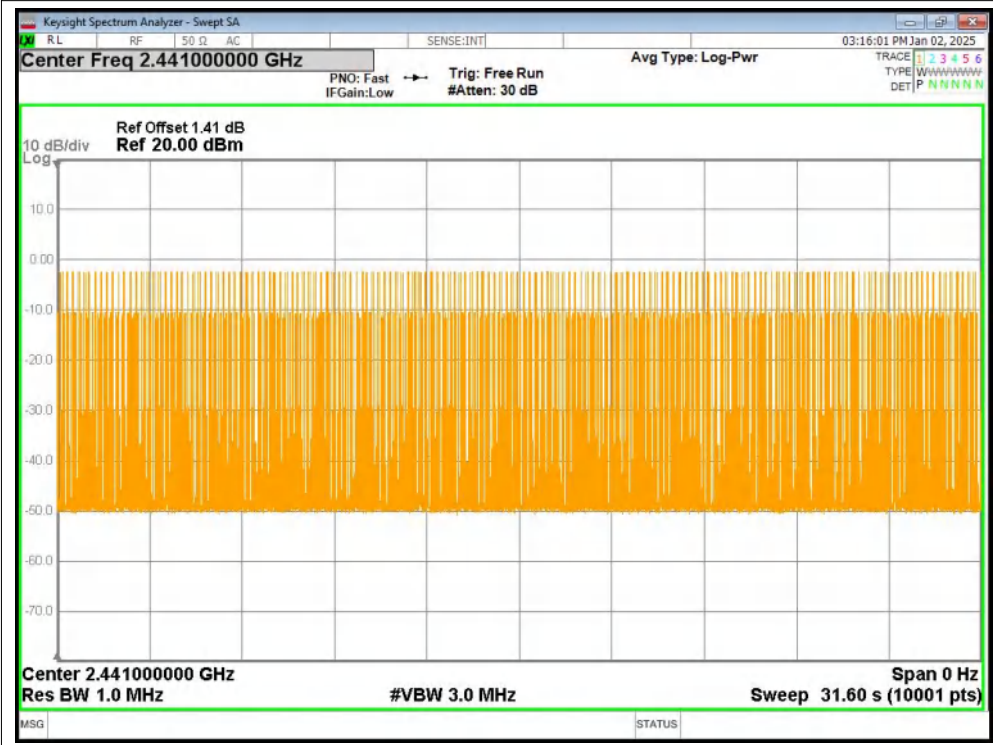
Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2441	0.397	125.849	317	31600	400	Pass
1-DH3	2441	1.655	279.695	169	31600	400	Pass
1-DH5	2441	2.904	313.632	108	31600	400	Pass
2-DH1	2441	0.41	130.38	318	31600	400	Pass
2-DH3	2441	1.661	260.777	157	31600	400	Pass
2-DH5	2441	2.909	328.717	113	31600	400	Pass
3-DH1	2441	0.408	130.152	319	31600	400	Pass
3-DH3	2441	1.658	276.886	167	31600	400	Pass
3-DH5	2441	2.911	308.566	106	31600	400	Pass

Test Graphs

Dwell NVNT 1-DH1 2441MHz Ant1 One Burst



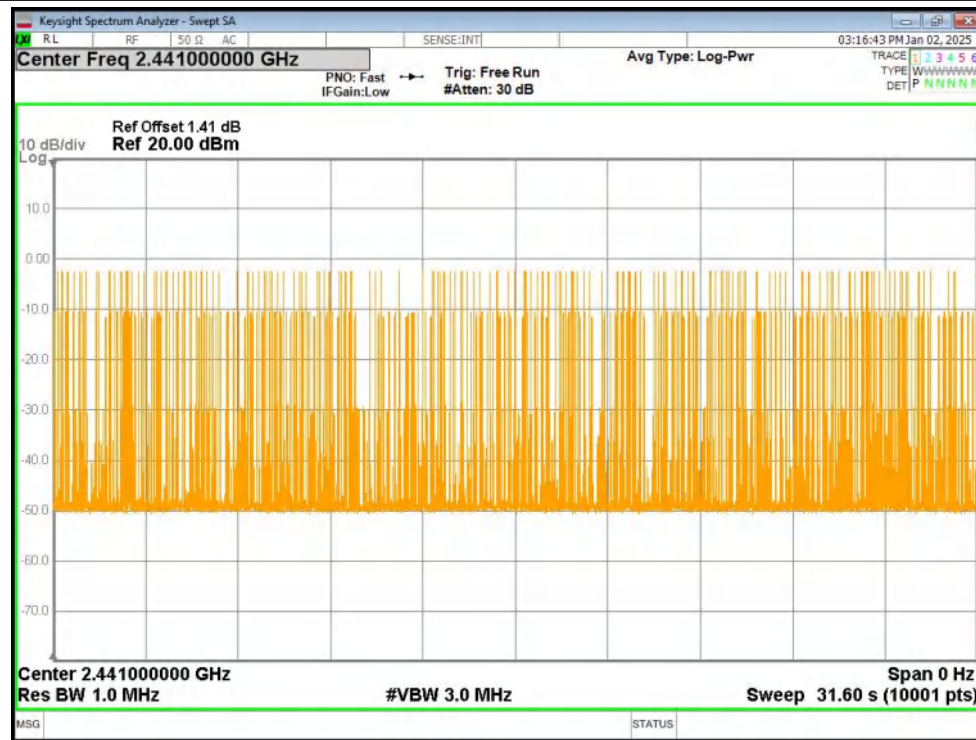
Dwell NVNT 1-DH1 2441MHz Ant1 Accumulated



Dwell NVNT 1-DH3 2441MHz Ant1 One Burst



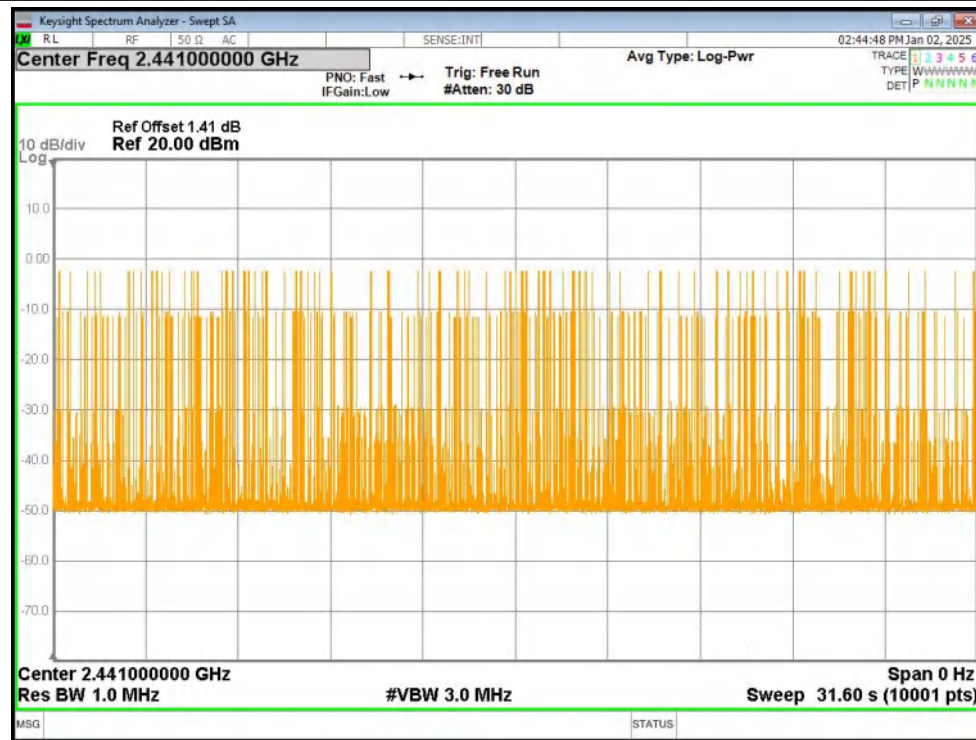
Dwell NVNT 1-DH3 2441MHz Ant1 Accumulated



Dwell NVNT 1-DH5 2441MHz Ant1 One Burst



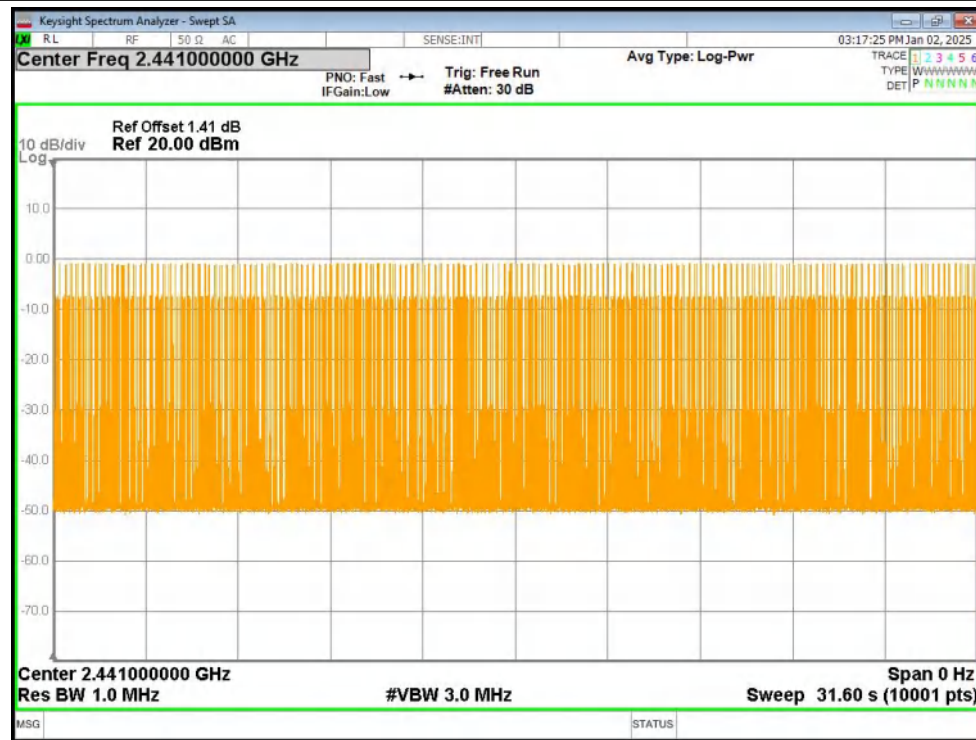
Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated



Dwell NVNT 2-DH1 2441MHz Ant1 One Burst



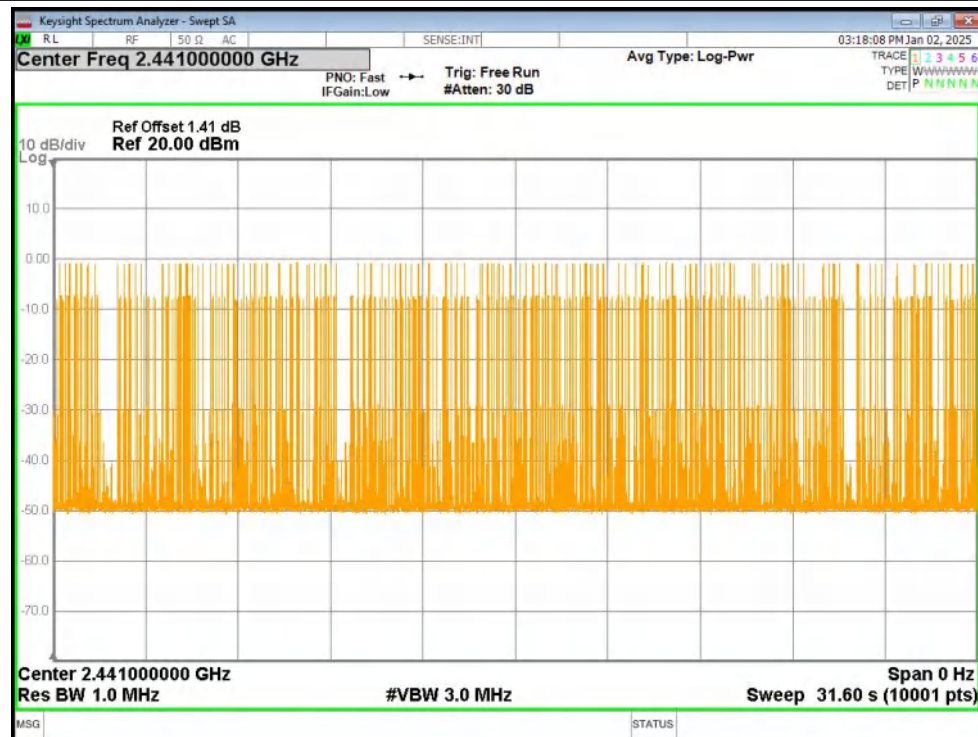
Dwell NVNT 2-DH1 2441MHz Ant1 Accumulated



Dwell NVNT 2-DH3 2441MHz Ant1 One Burst



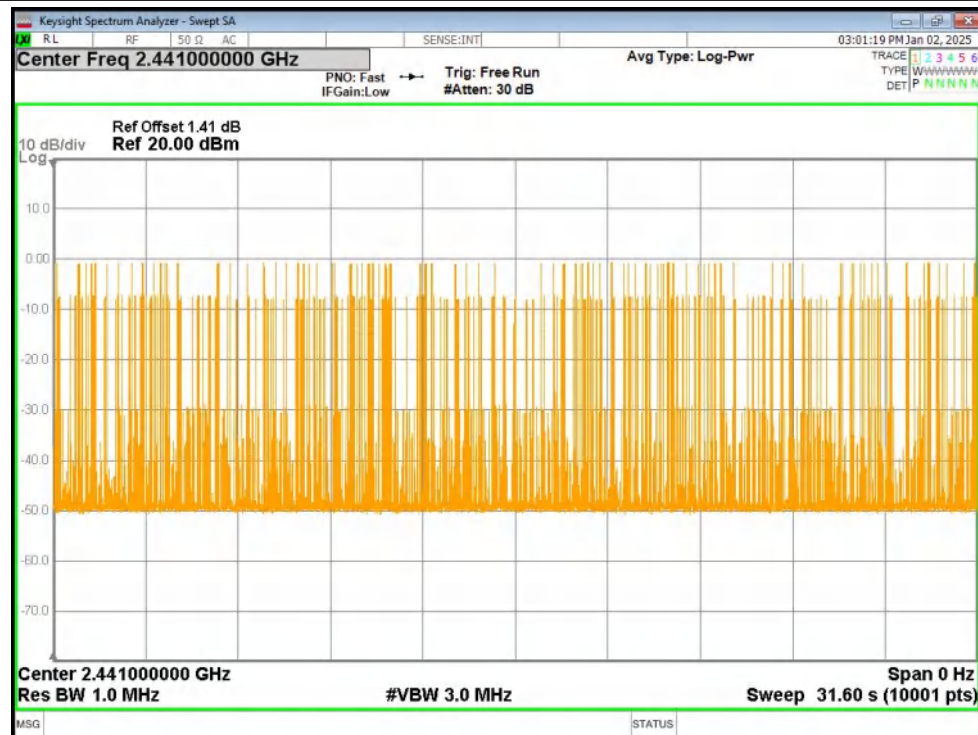
Dwell NVNT 2-DH3 2441MHz Ant1 Accumulated



Dwell NVNT 2-DH5 2441MHz Ant1 One Burst



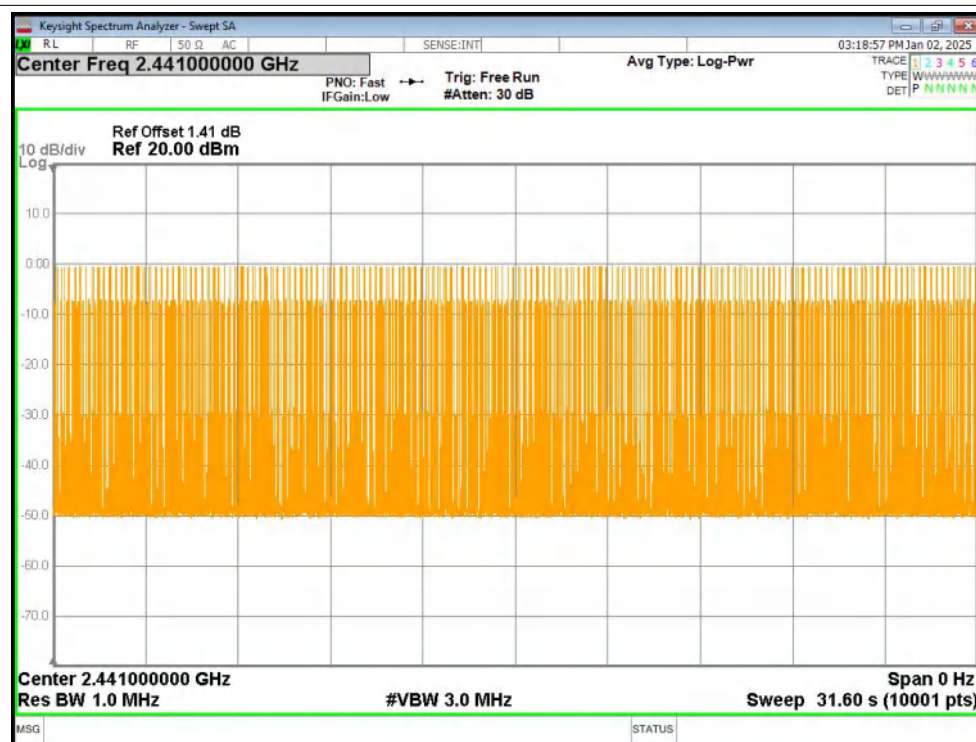
Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated



Dwell NVNT 3-DH1 2441MHz Ant1 One Burst



Dwell NVNT 3-DH1 2441MHz Ant1 Accumulated



[illegible]

Keysight Spectrum Analyzer - Swept SA

03:19:40 PM Jan 02, 2025

Center Freq 2.441000000 GHz

Avg Type: Log-Pwr

Trace 1 2 3 4 5 6

Type WWWWWWW

Det P NNNNN

PNO: Fast --> Trig: Free Run

IFGain:Low #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

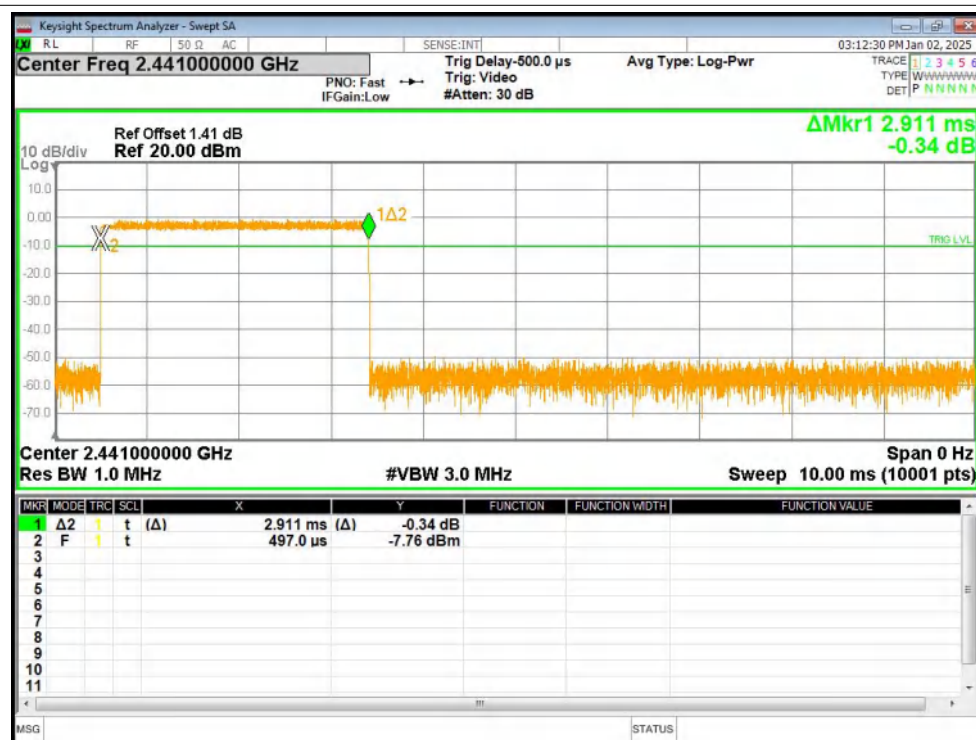
Span 0 Hz

Sweep 31.60 s (10001 pts)

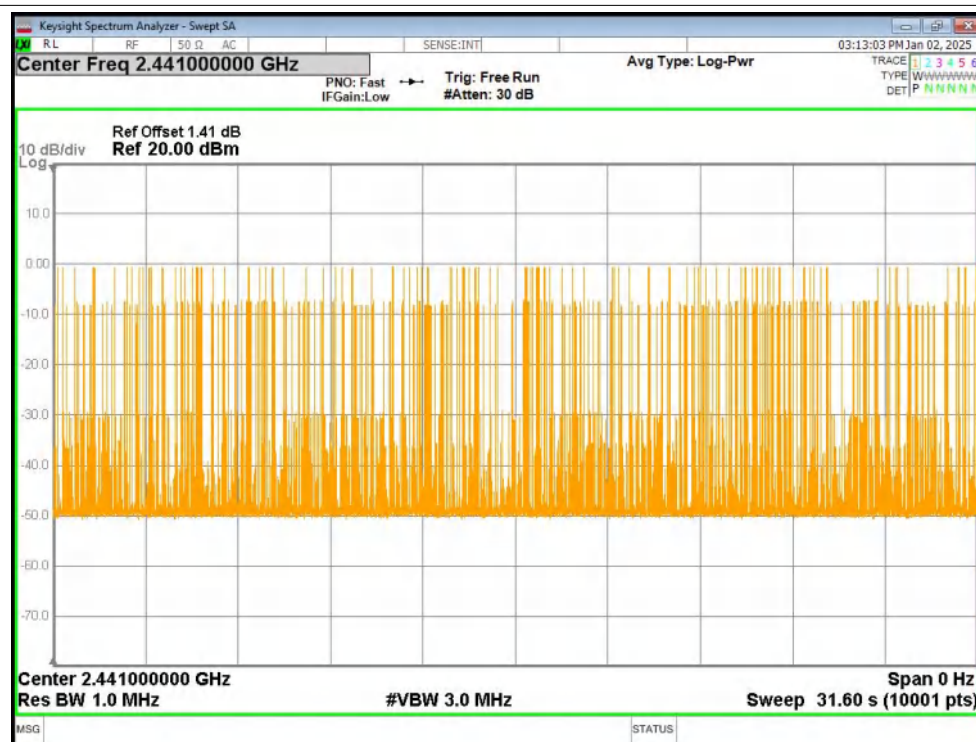
MSG STATUS

The image shows a Keysight Spectrum Analyzer interface. At the top, the title bar reads 'Keysight Spectrum Analyzer - Swept SA'. Below it, the date and time '03:19:40 PM Jan 02, 2025' are displayed. The main display area shows a spectrum plot with a center frequency of 2.441000000 GHz. The y-axis is labeled '10 dB/div Log' and ranges from -70.0 to 10.0. The x-axis is labeled 'Center 2.441000000 GHz' and 'Span 0 Hz'. The plot shows a noisy signal with many sharp peaks and valleys. The noise floor is around -60 dBm. The display includes various control parameters: 'PNO: Fast', 'Trig: Free Run', 'IFGain:Low', and '#Atten: 30 dB'. The 'Ref Offset 1.41 dB' and 'Ref 20.00 dBm' are also shown. The bottom status bar displays 'Center 2.441000000 GHz', 'Res BW 1.0 MHz', '#VBW 3.0 MHz', 'Span 0 Hz', and 'Sweep 31.60 s (10001 pts)'. The bottom left corner has 'MSG' and the bottom right corner has 'STATUS'.

Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated

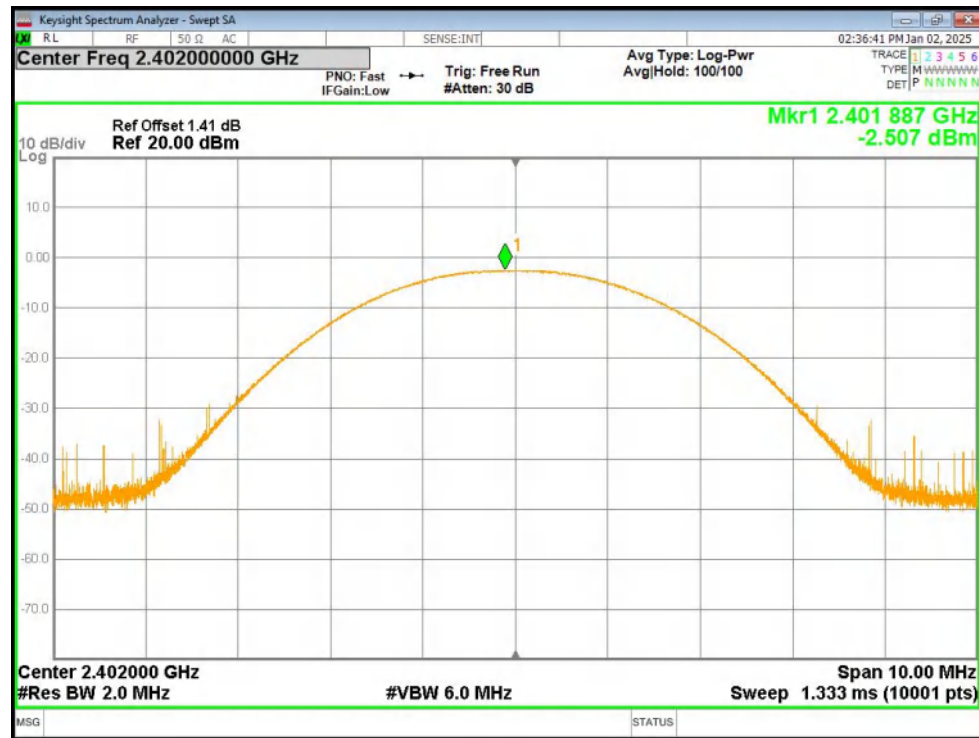


2.Maximum Peak Conducted Output Power

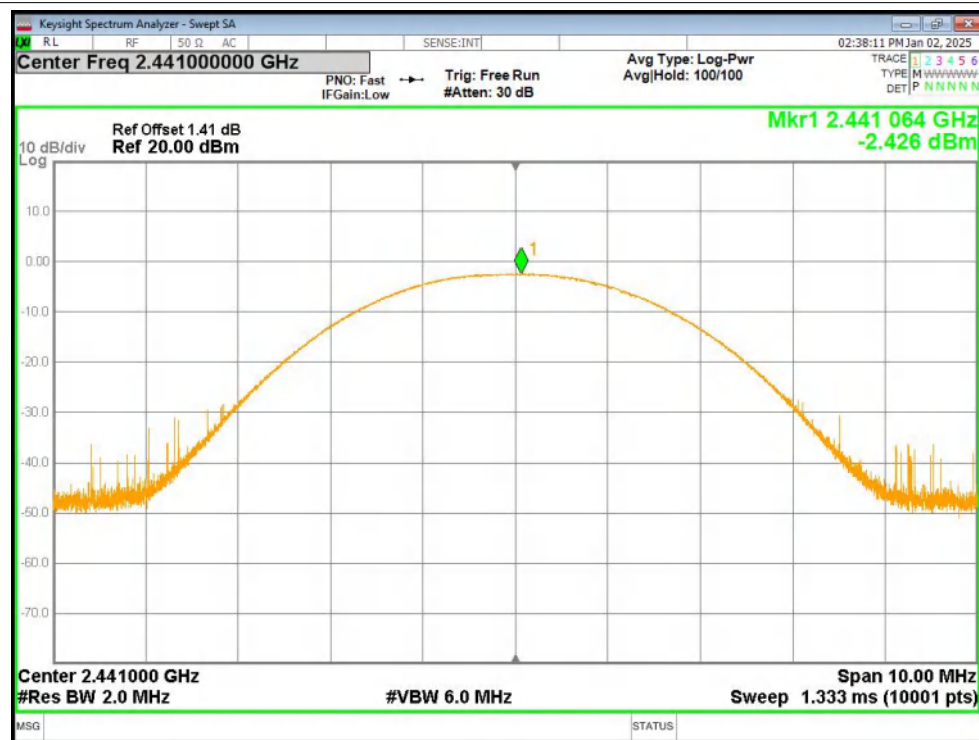
Mode	Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Verdict
1-DH5	2402	-2.51	30	Pass
1-DH5	2441	-2.43	30	Pass
1-DH5	2480	-2.9	30	Pass
2-DH5	2402	-0.63	21	Pass
2-DH5	2441	-0.34	21	Pass
2-DH5	2480	-0.99	21	Pass
3-DH5	2402	-0.25	21	Pass
3-DH5	2441	-0.16	21	Pass
3-DH5	2480	-0.58	21	Pass

Test Graphs

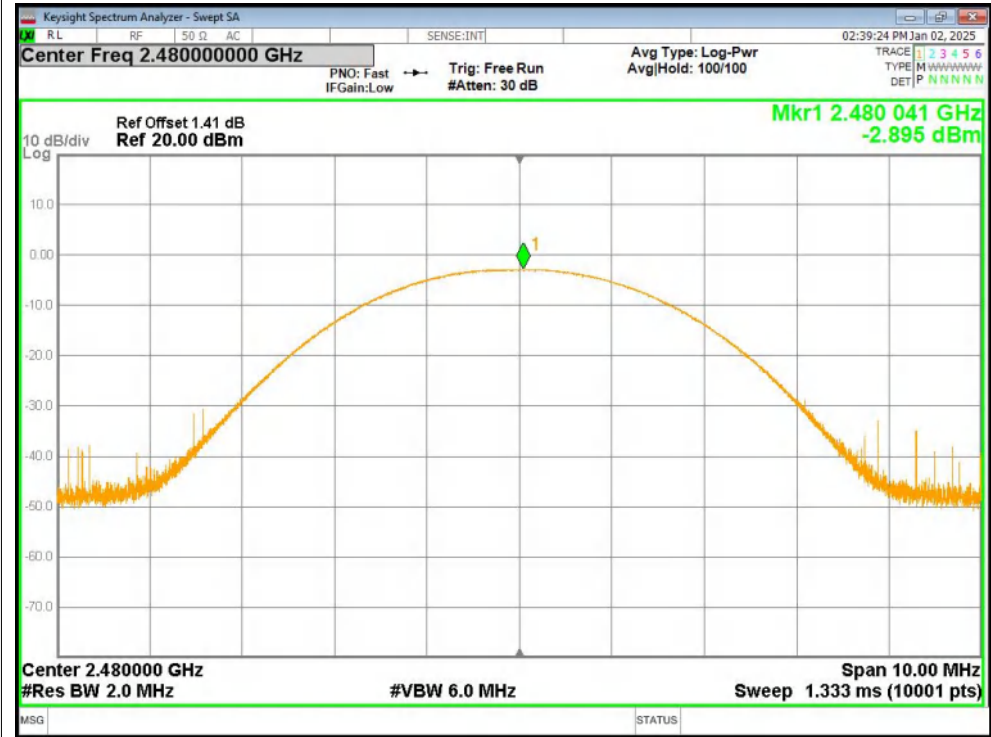
Peak Power NVNT 1-DH5 2402MHz Ant1



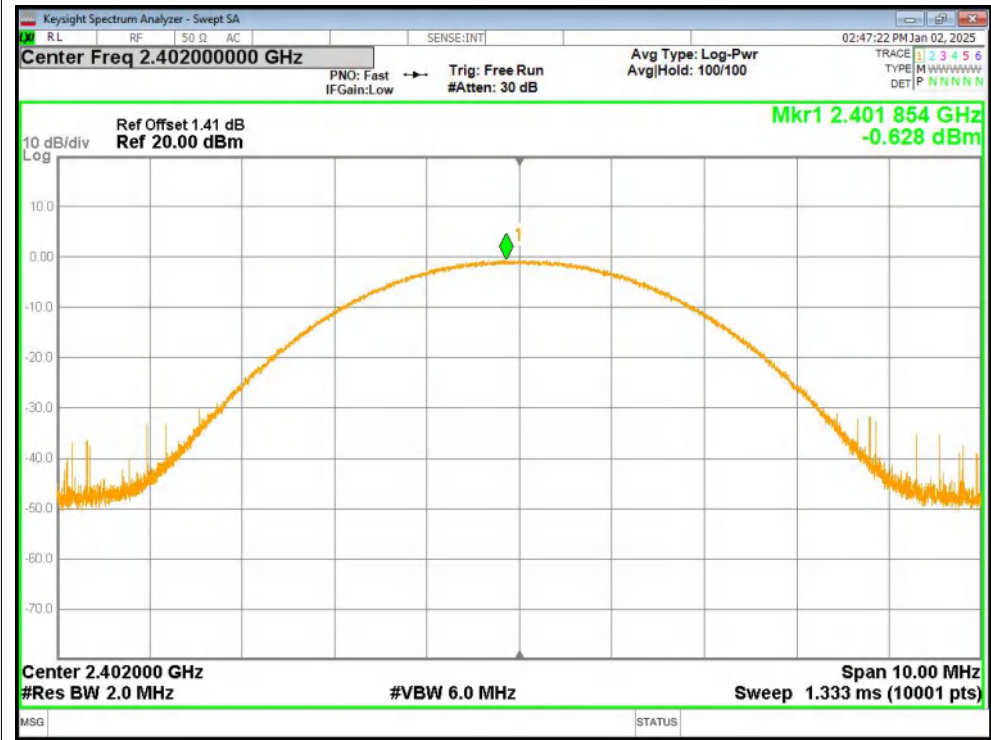
Peak Power NVNT 1-DH5 2441MHz Ant1



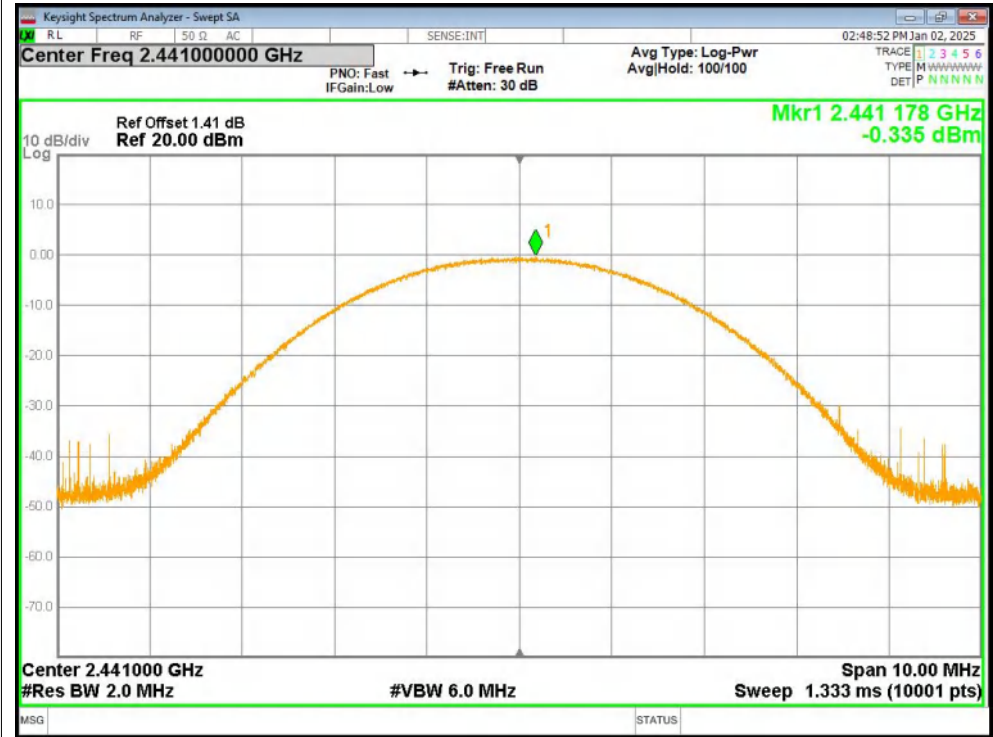
Peak Power NVNT 1-DH5 2480MHz Ant1



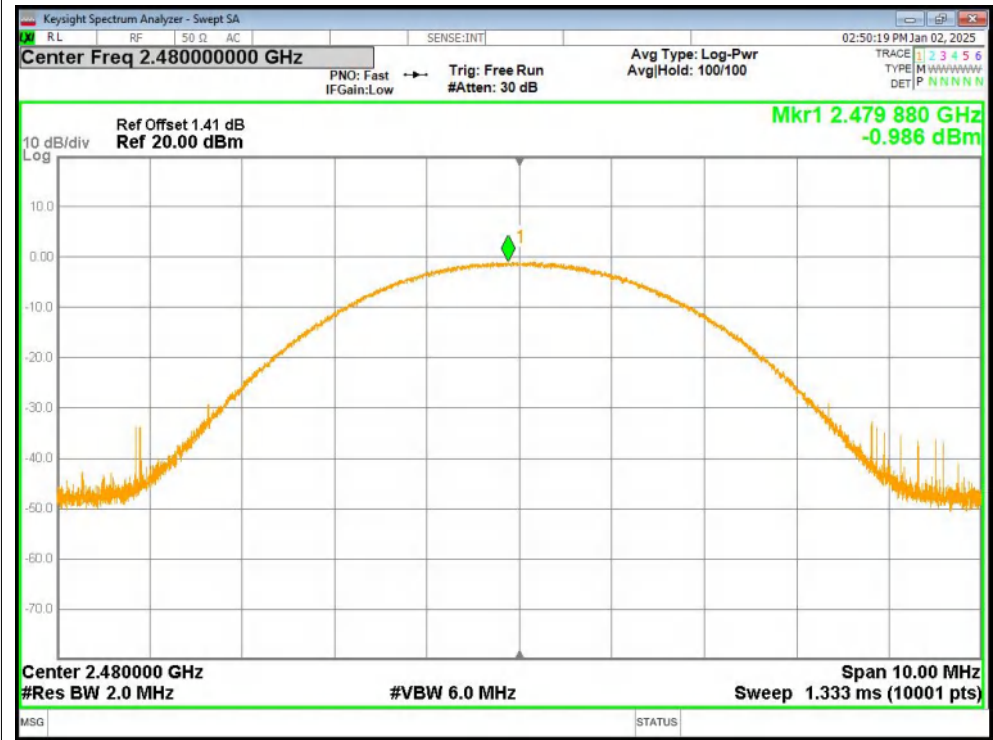
Peak Power NVNT 2-DH5 2402MHz Ant1



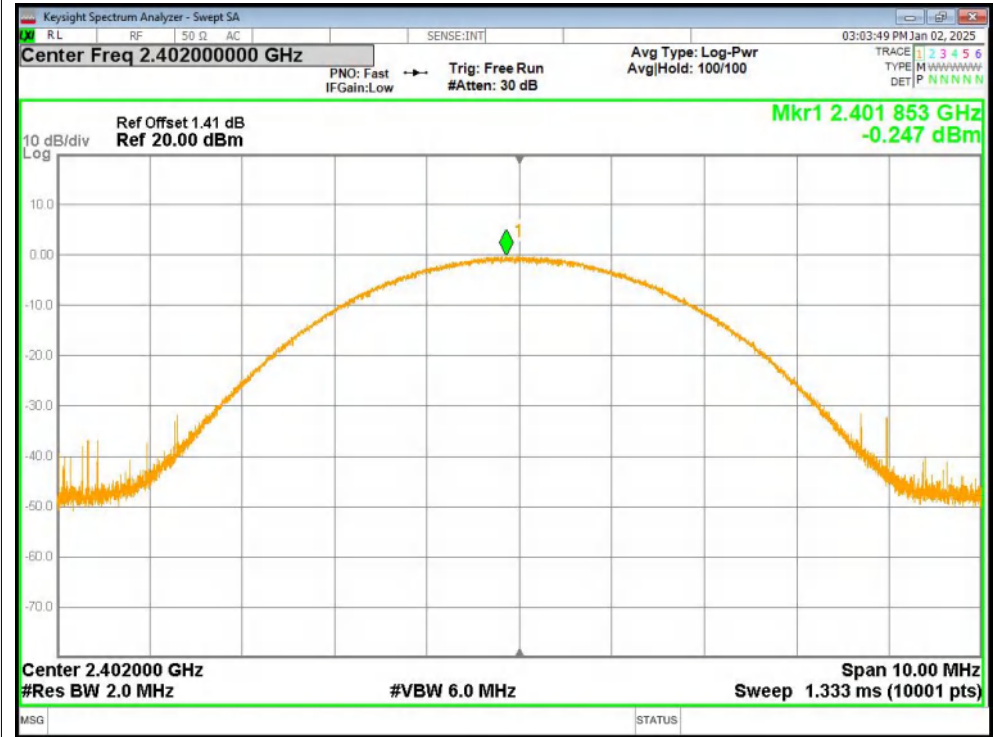
Peak Power NVNT 2-DH5 2441MHz Ant1



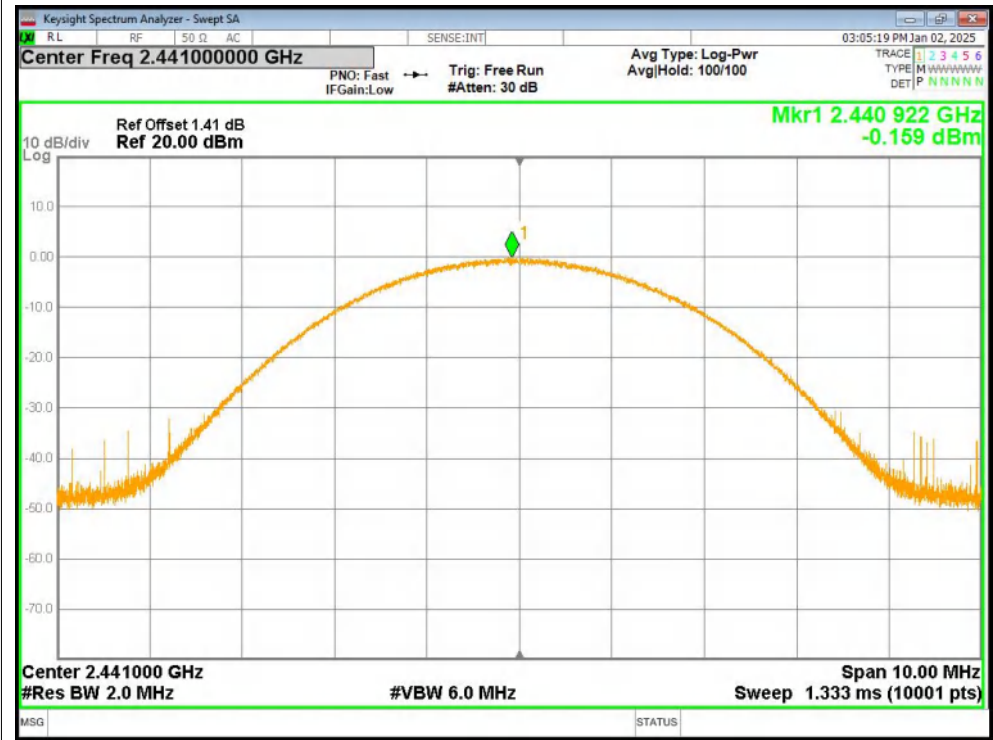
Peak Power NVNT 2-DH5 2480MHz Ant1



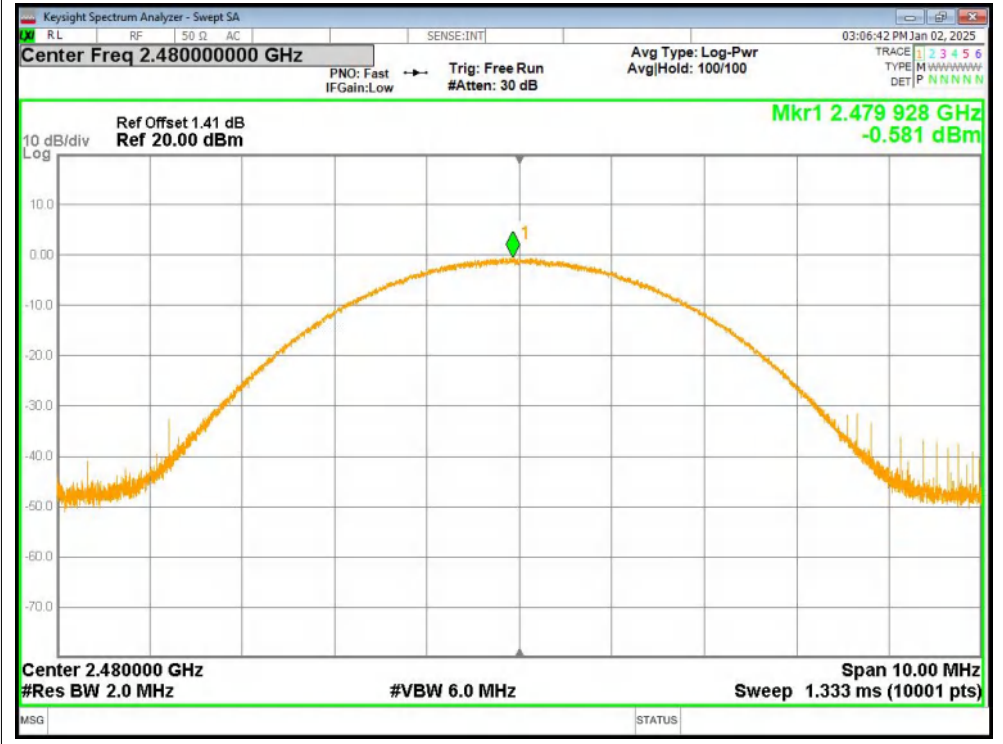
Peak Power NVNT 3-DH5 2402MHz Ant1



Peak Power NVNT 3-DH5 2441MHz Ant1



Peak Power NVNT 3-DH5 2480MHz Ant1

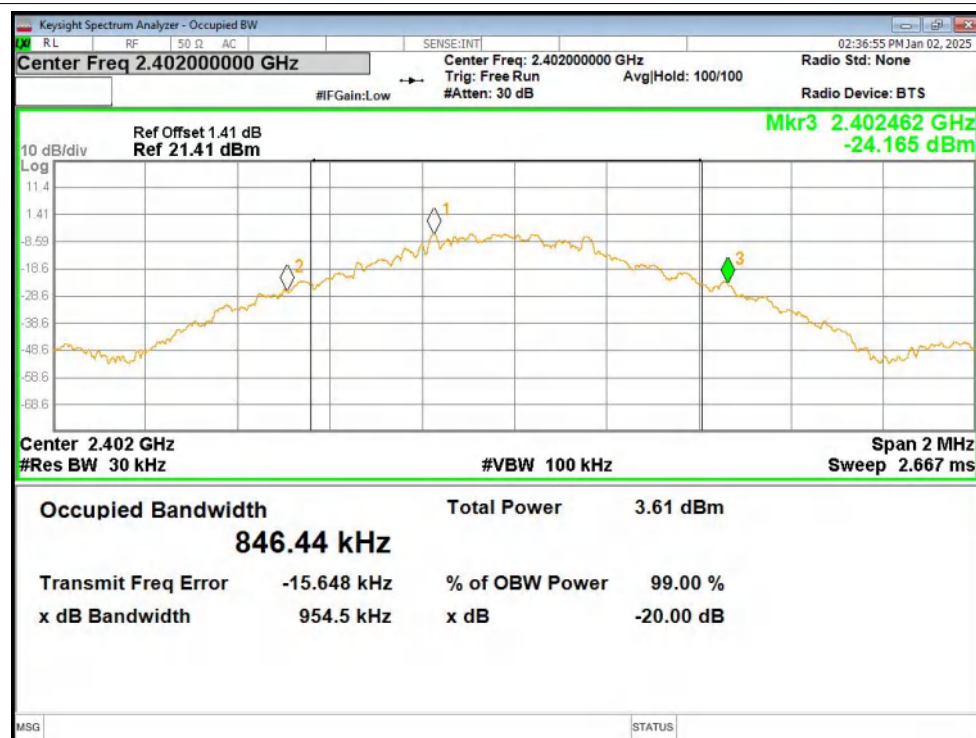


3.-20dB Bandwidth

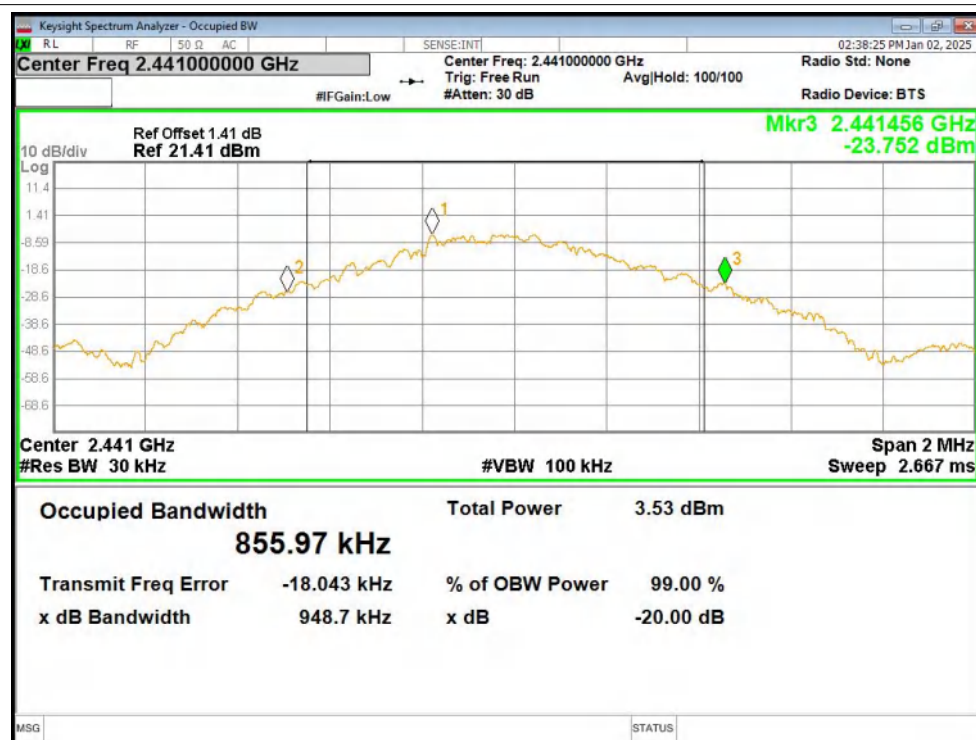
Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
1-DH5	2402	0.955	Pass
1-DH5	2441	0.949	Pass
1-DH5	2480	0.951	Pass
2-DH5	2402	1.333	Pass
2-DH5	2441	1.309	Pass
2-DH5	2480	1.31	Pass
3-DH5	2402	1.301	Pass
3-DH5	2441	1.298	Pass
3-DH5	2480	1.312	Pass

Test Graphs

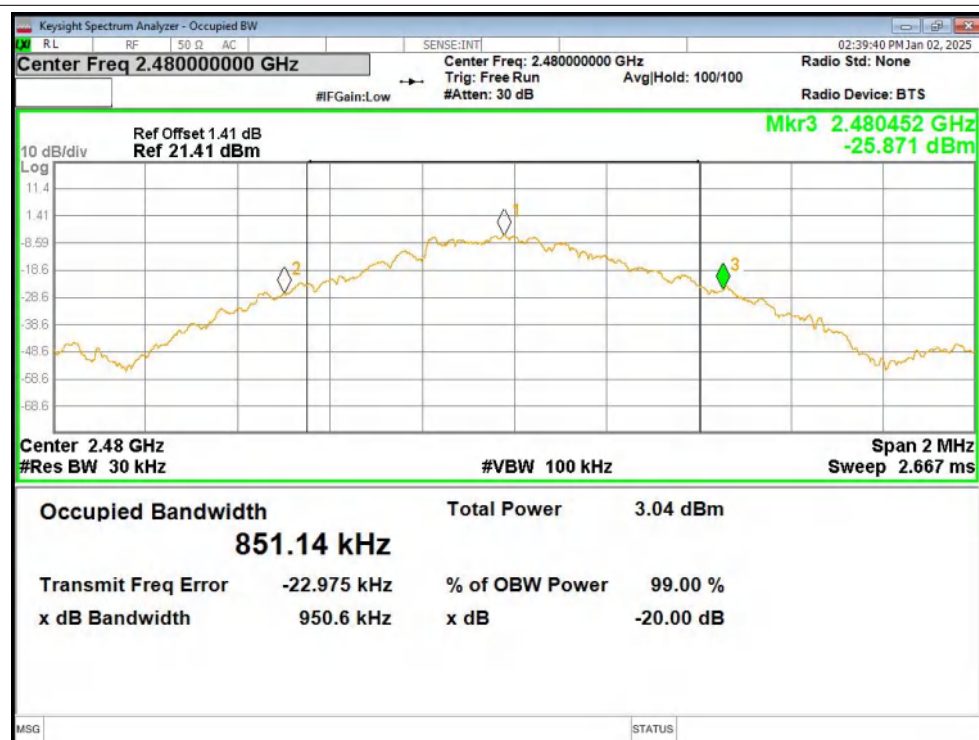
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



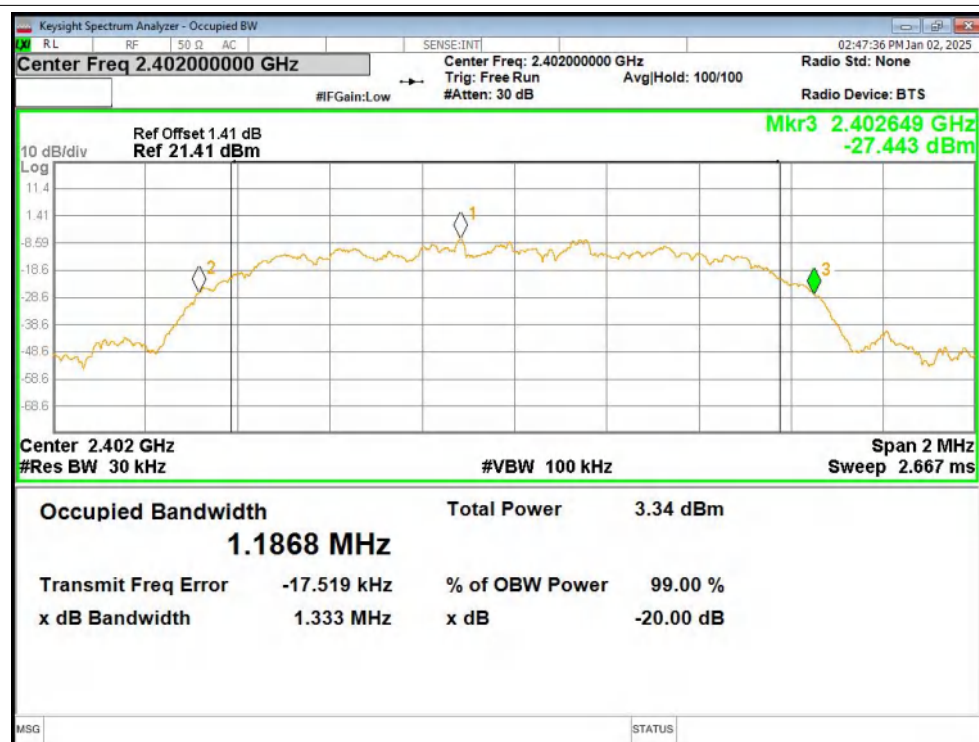
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



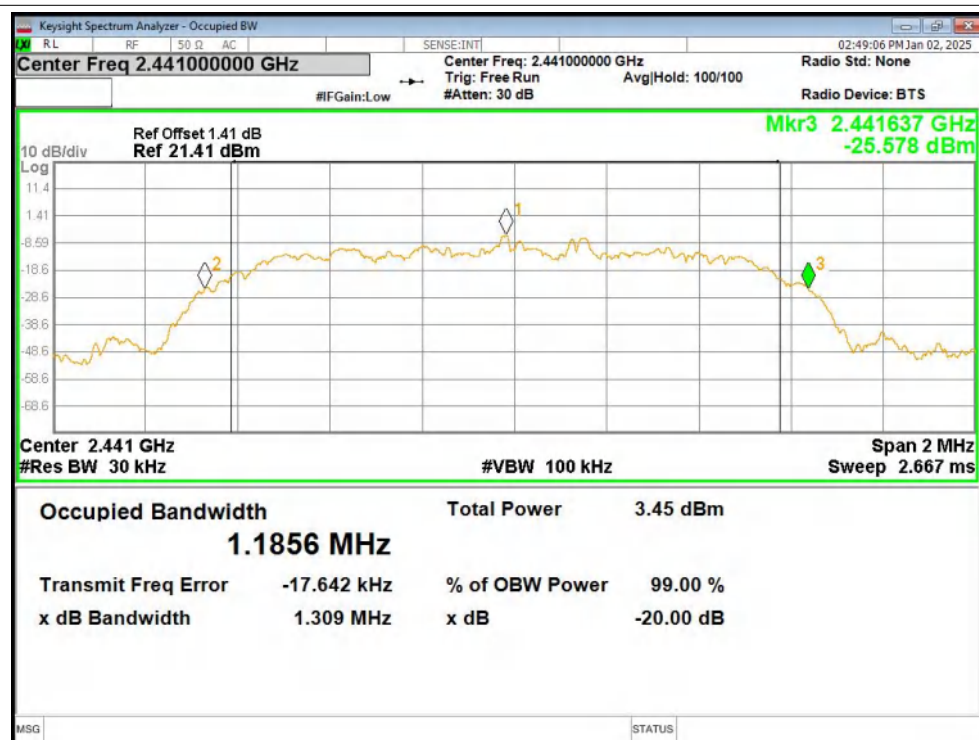
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



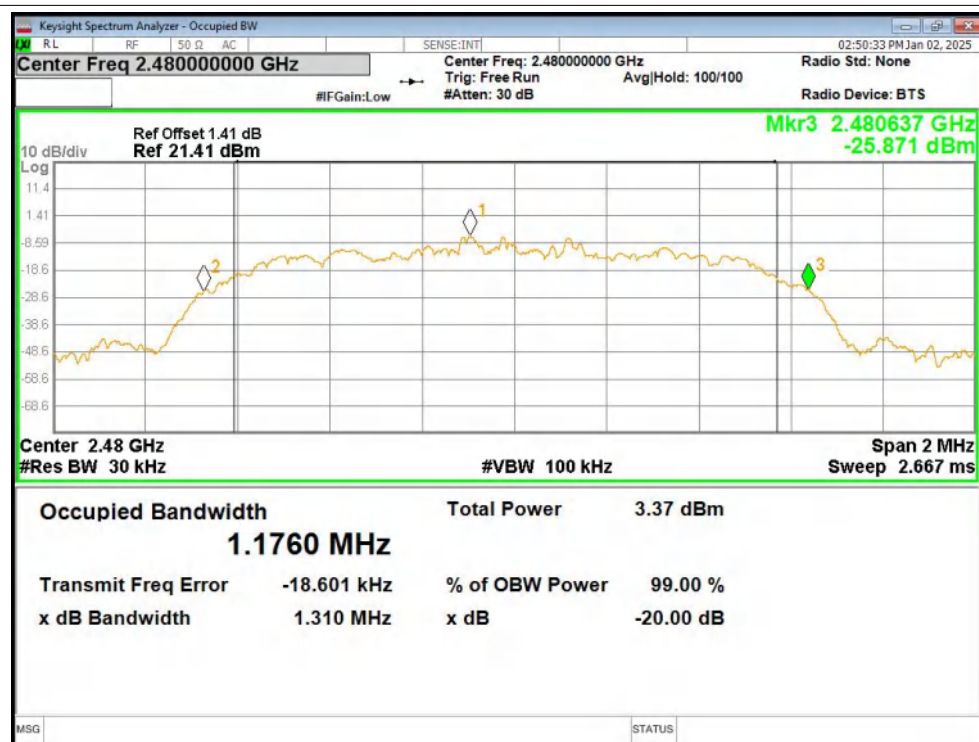
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



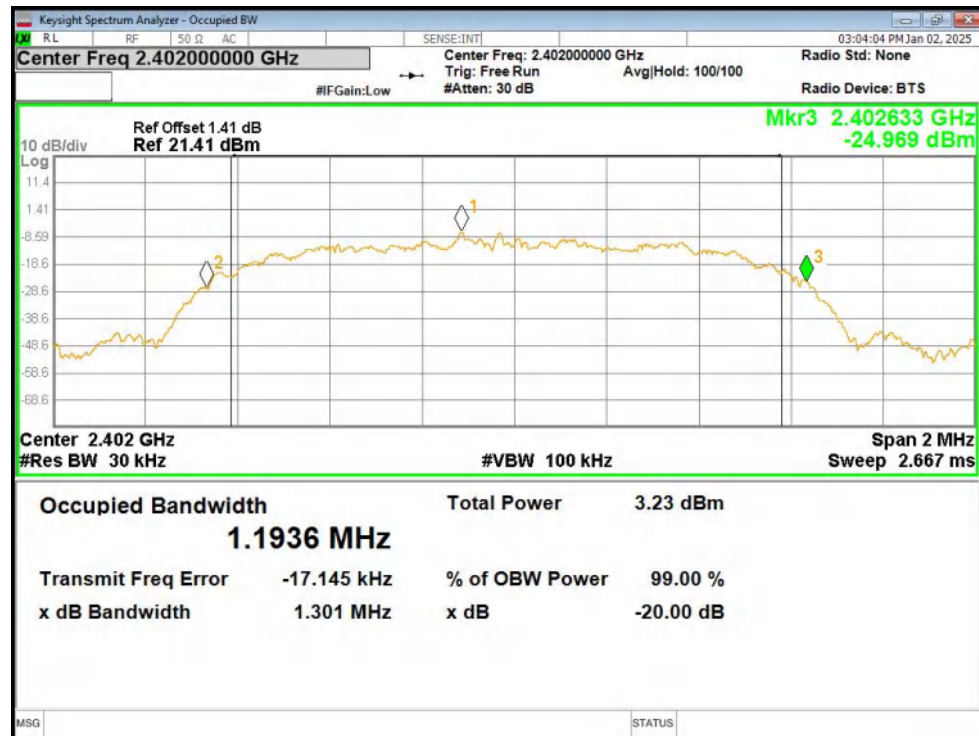
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



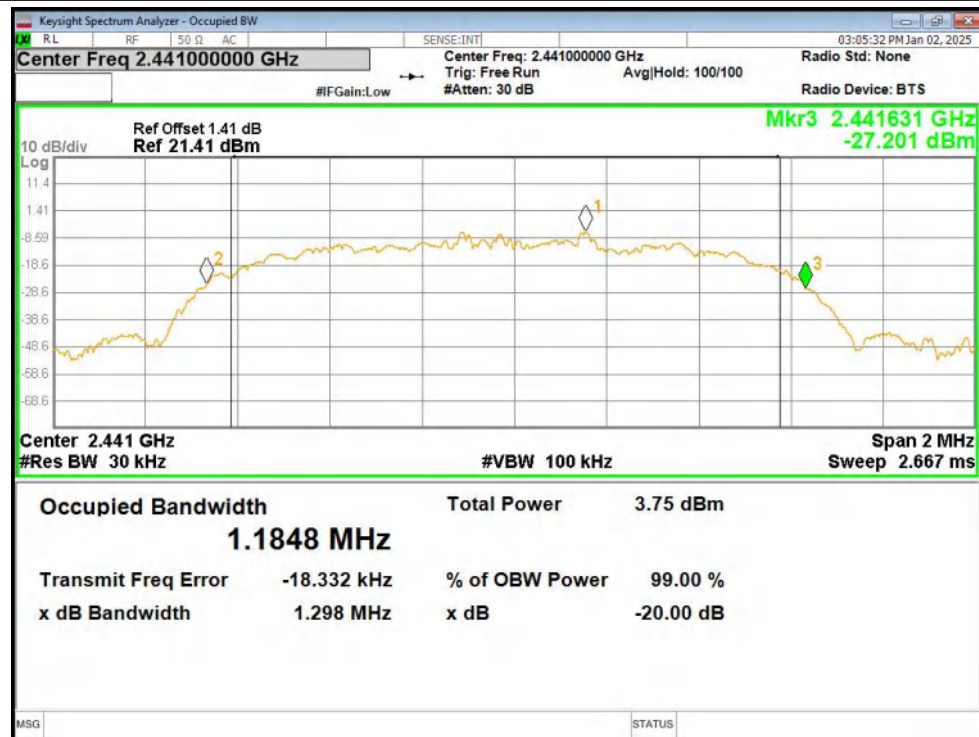
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



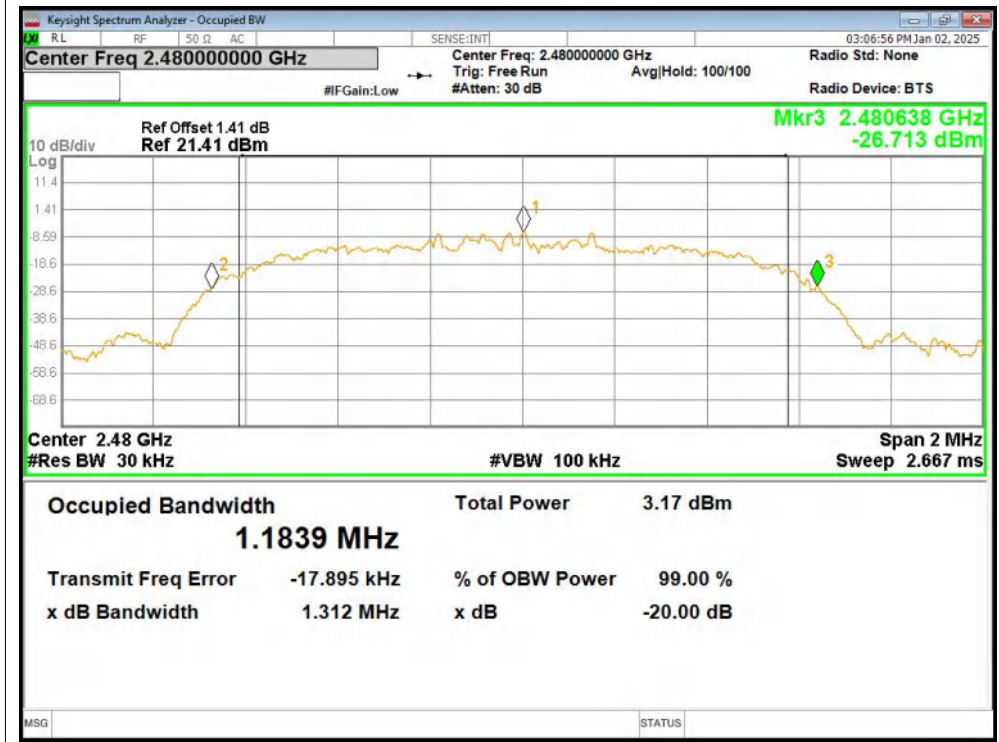
-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1

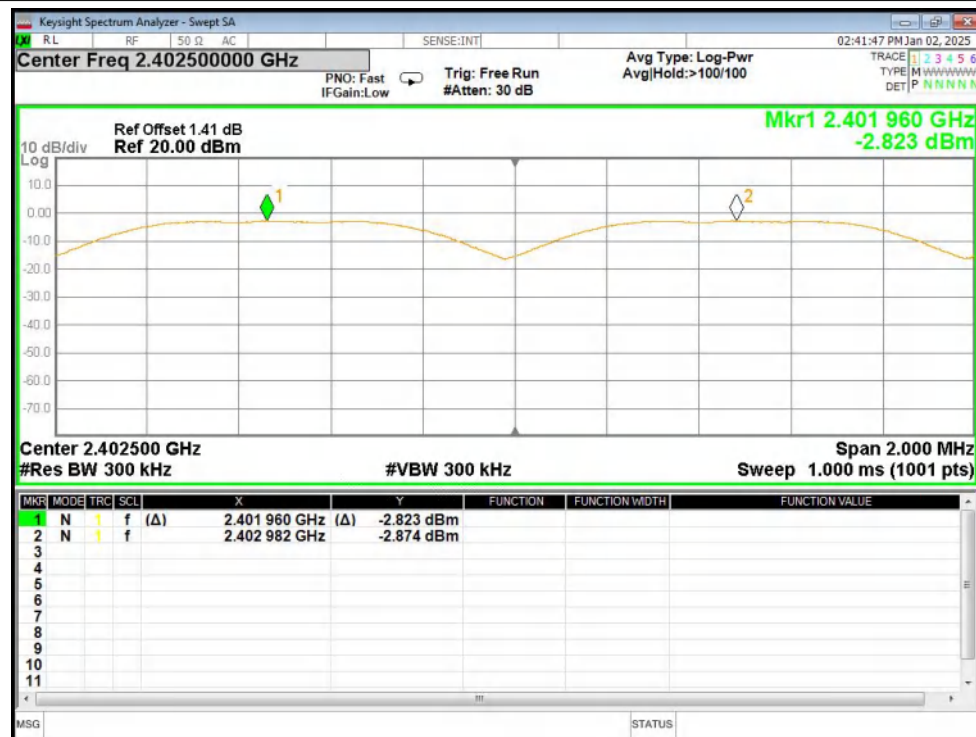


4.Carrier Frequencies Separation

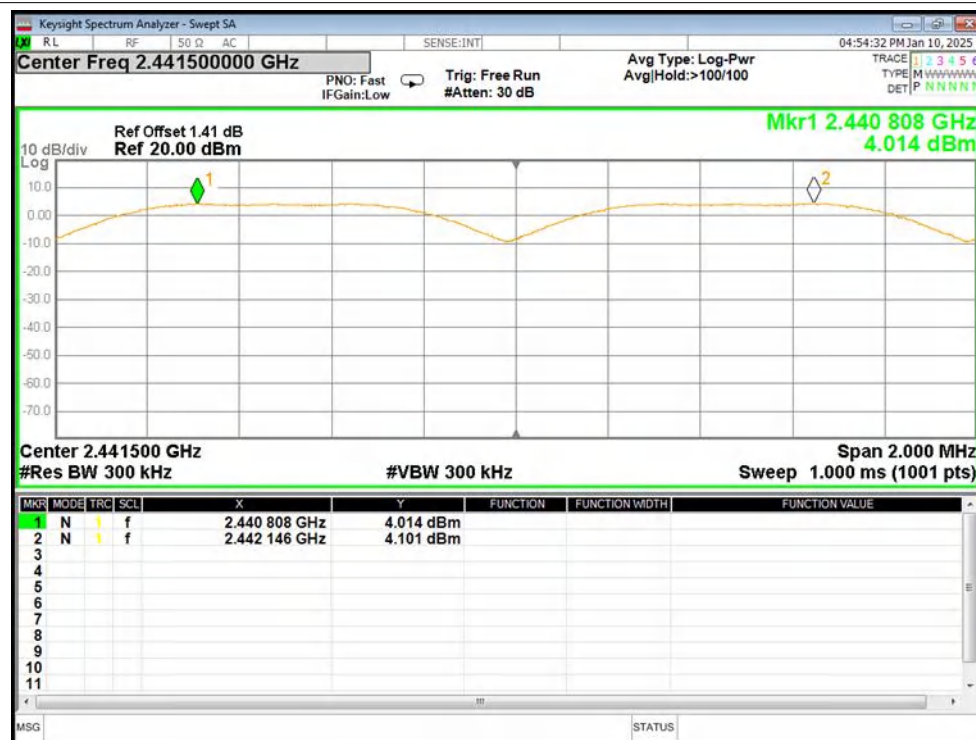
Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
1-DH5	2401.96	2402.982	1.022	0.955	Pass
1-DH5	2441.124	2441.972	1.338	0.949	Pass
1-DH5	2478.806	2480.13	1.324	0.951	Pass
2-DH5	2402.11	2403.15	1.04	0.889	Pass
2-DH5	2441.096	2442.124	1.028	0.873	Pass
2-DH5	2478.792	2479.862	1.07	0.873	Pass
3-DH5	2402.152	2403.134	0.982	0.867	Pass
3-DH5	2441.128	2442.142	1.014	0.865	Pass
3-DH5	2478.846	2479.916	1.07	0.875	Pass

Test Graphs

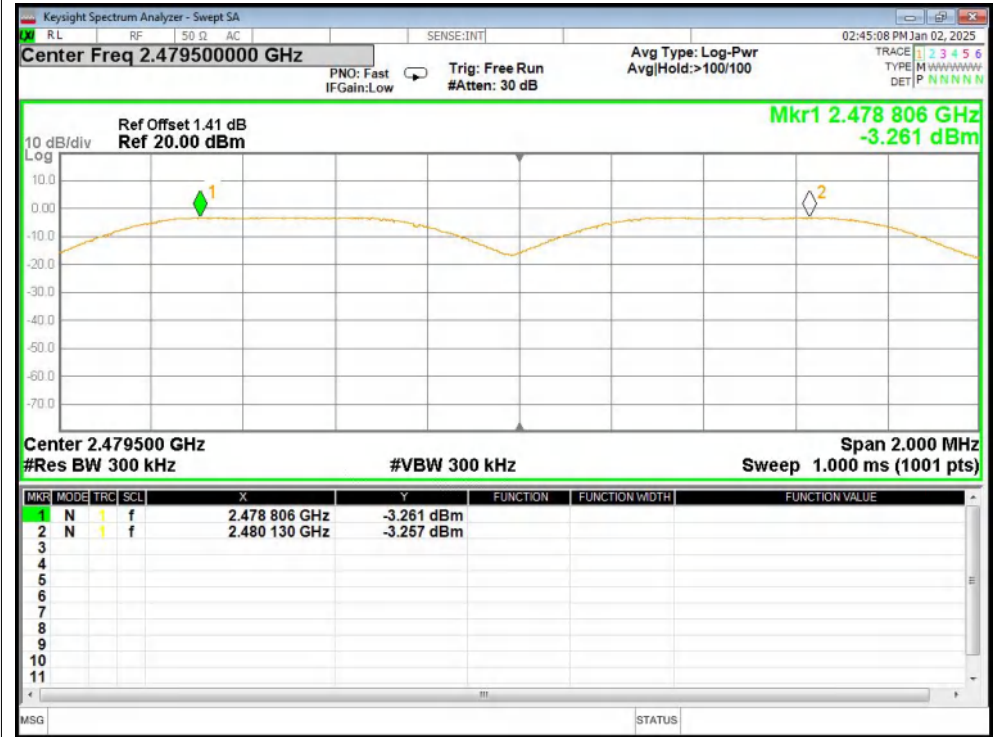
CFS NVNT 1-DH5 2402MHz Ant1



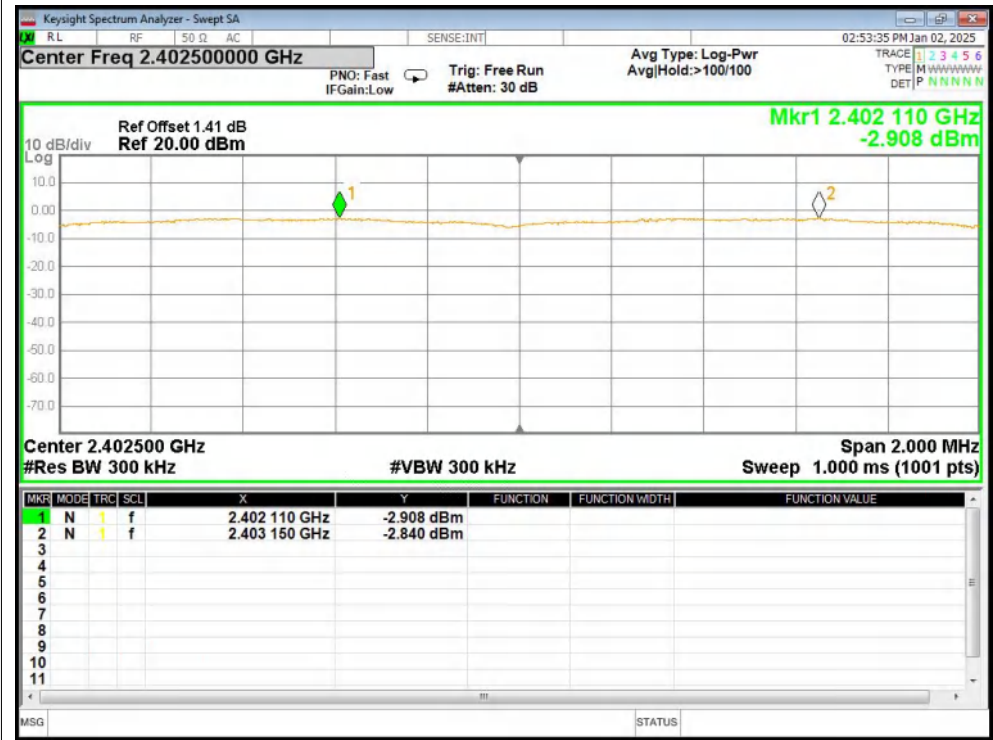
CFS NVNT 1-DH5 2441MHz Ant1



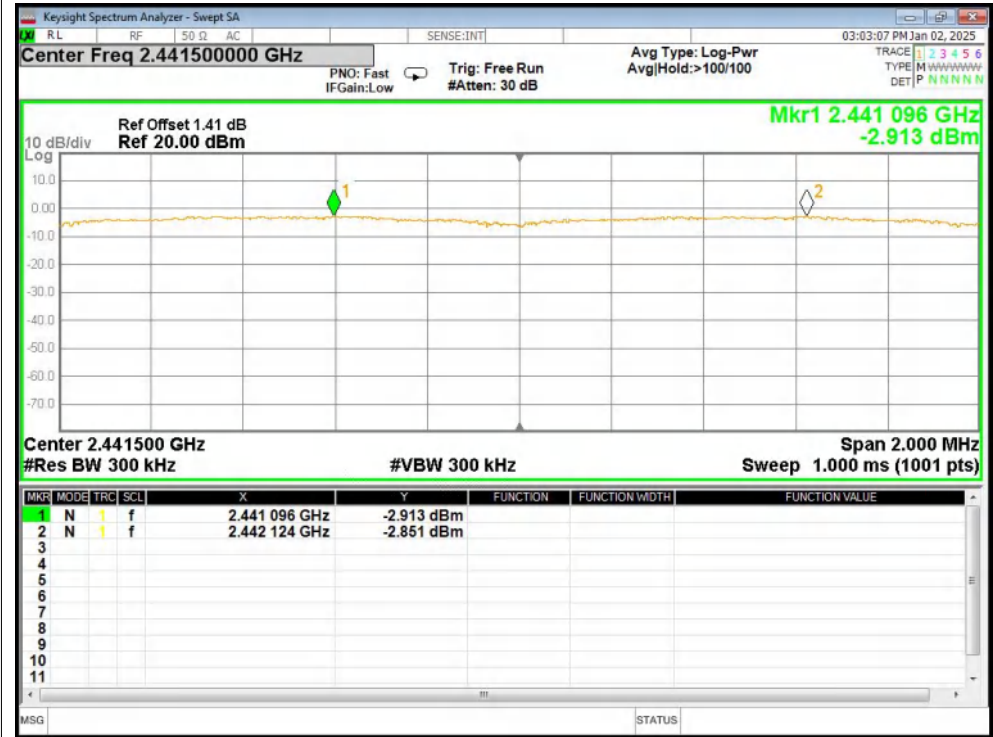
CFS NVNT 1-DH5 2480MHz Ant1



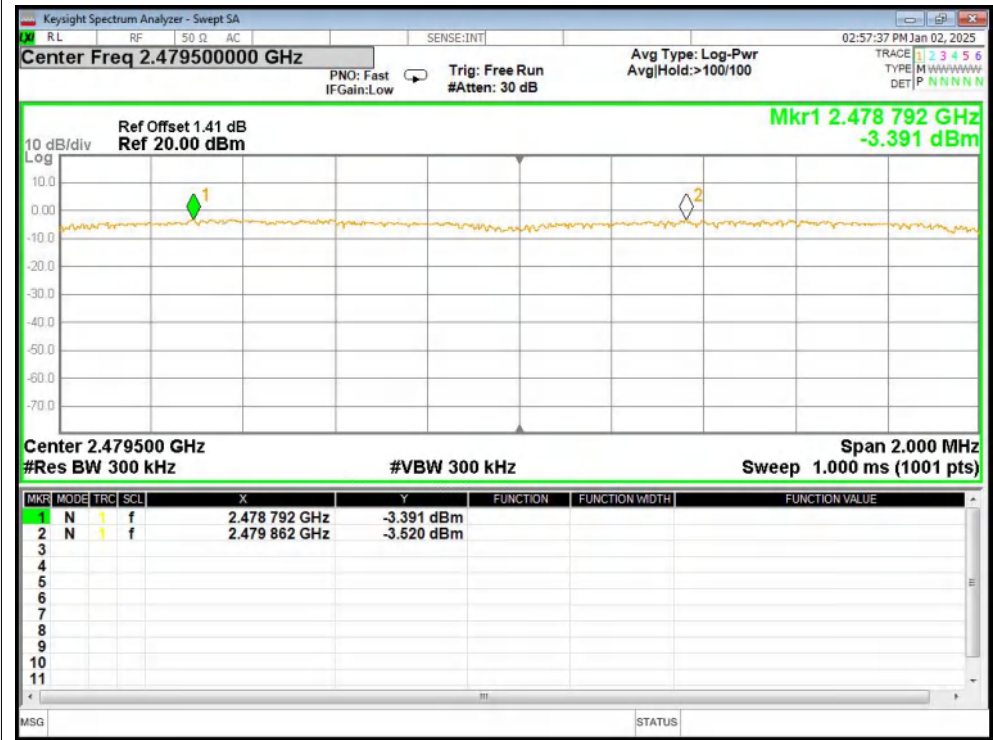
CFS NVNT 2-DH5 2402MHz Ant1



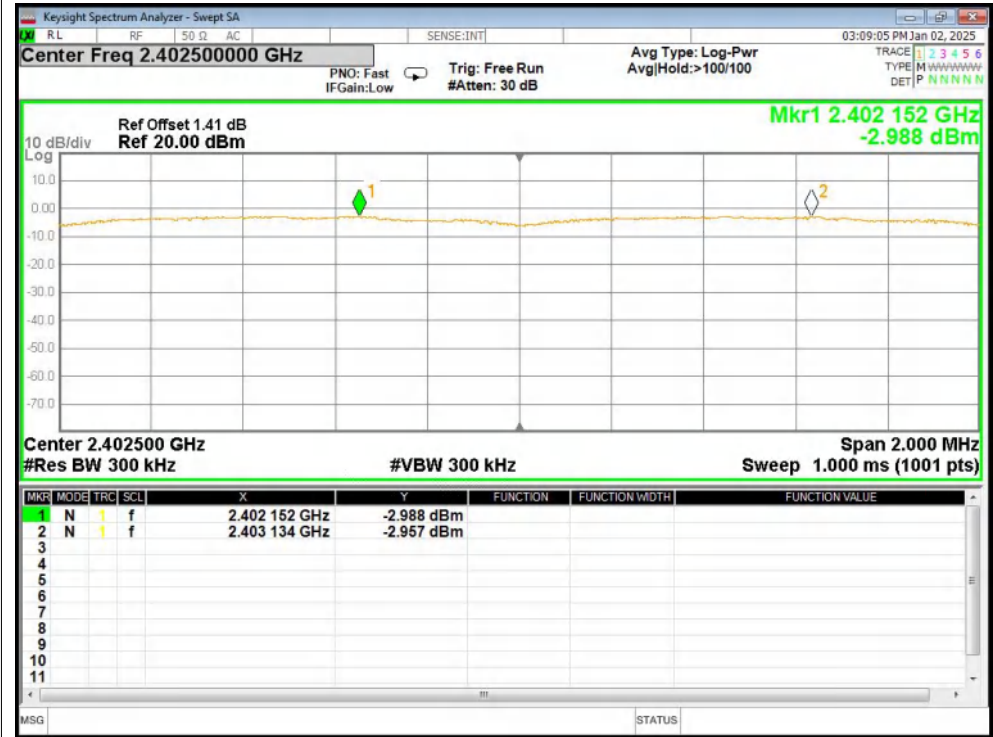
CFS NVNT 2-DH5 2441MHz Ant1



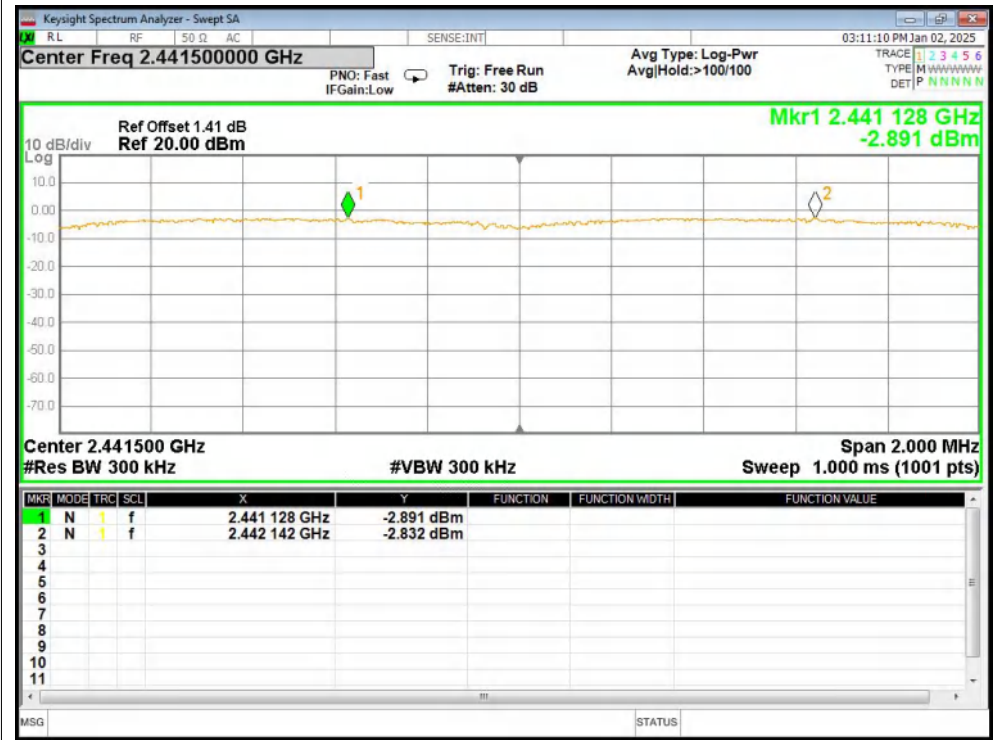
CFS NVNT 2-DH5 2480MHz Ant1



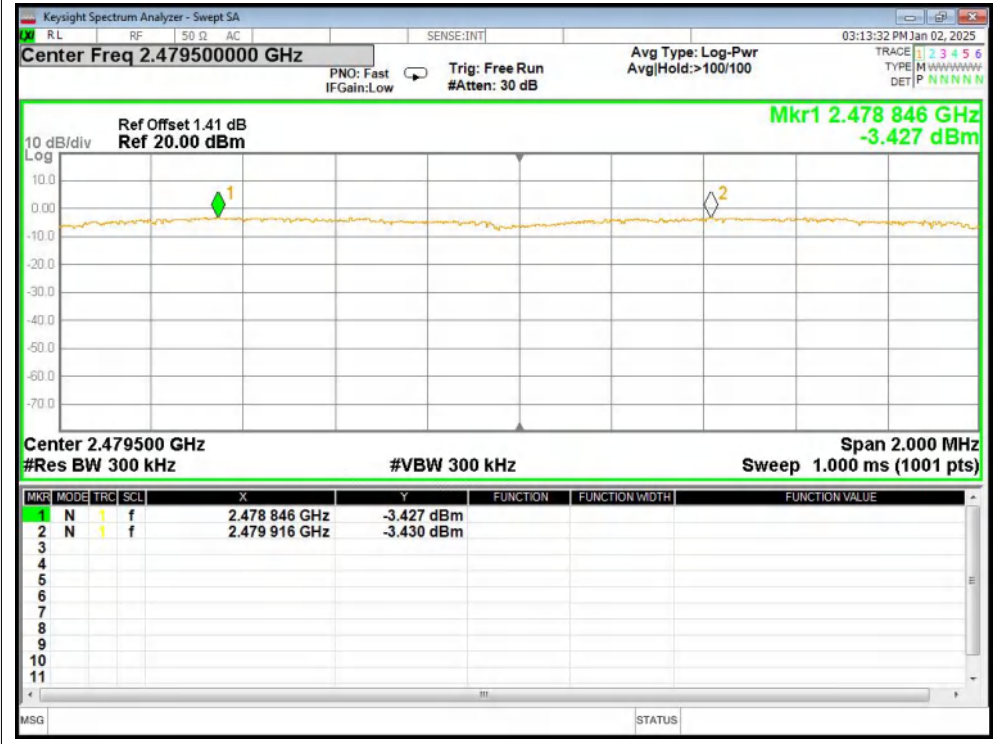
CFS NVNT 3-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2441MHz Ant1



CFS NVNT 3-DH5 2480MHz Ant1



5.Number of Hopping Channel

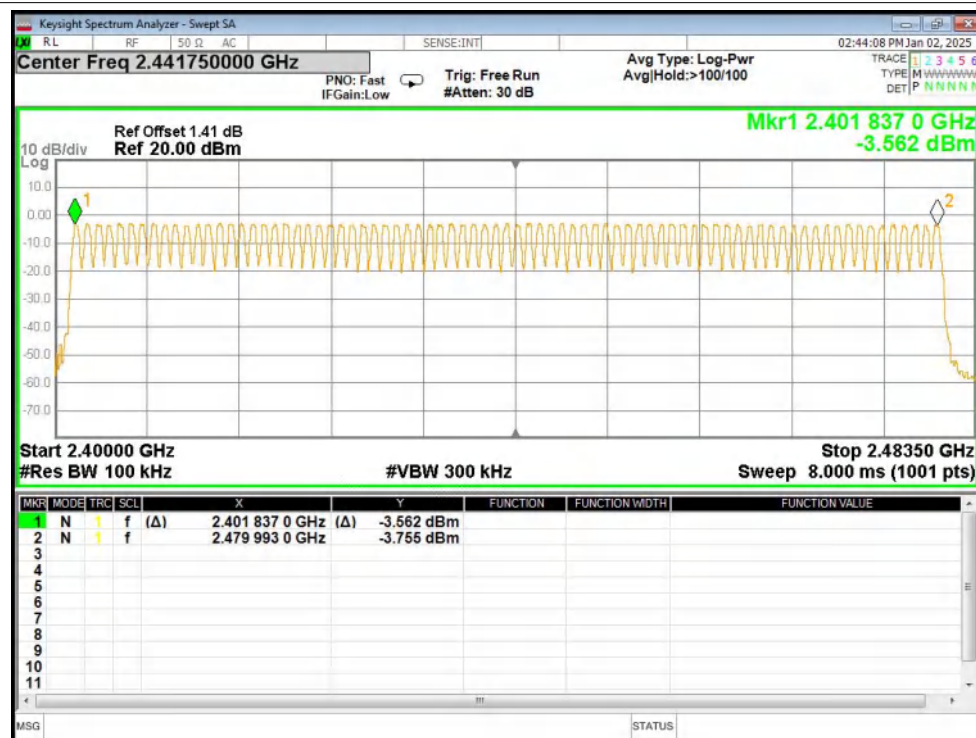
Mode	Hopping Number	Limit	Verdict
1-DH5	79	15	Pass
2-DH5	79	15	Pass
3-DH5	79	15	Pass

Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



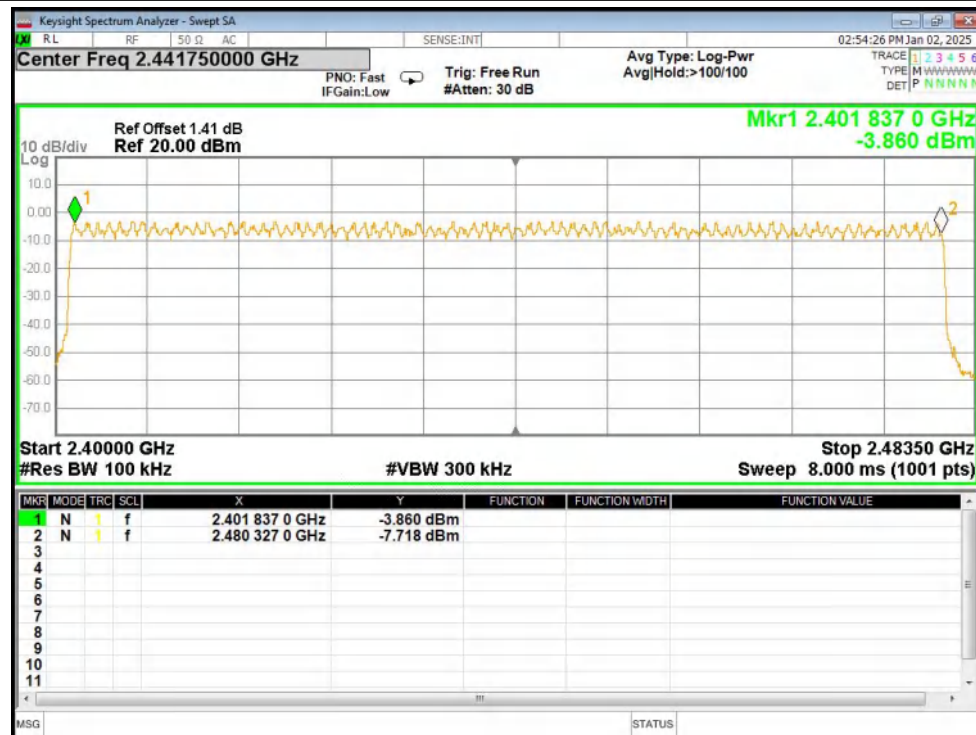
Hopping No. NVNT 1-DH5 2441MHz Ant1



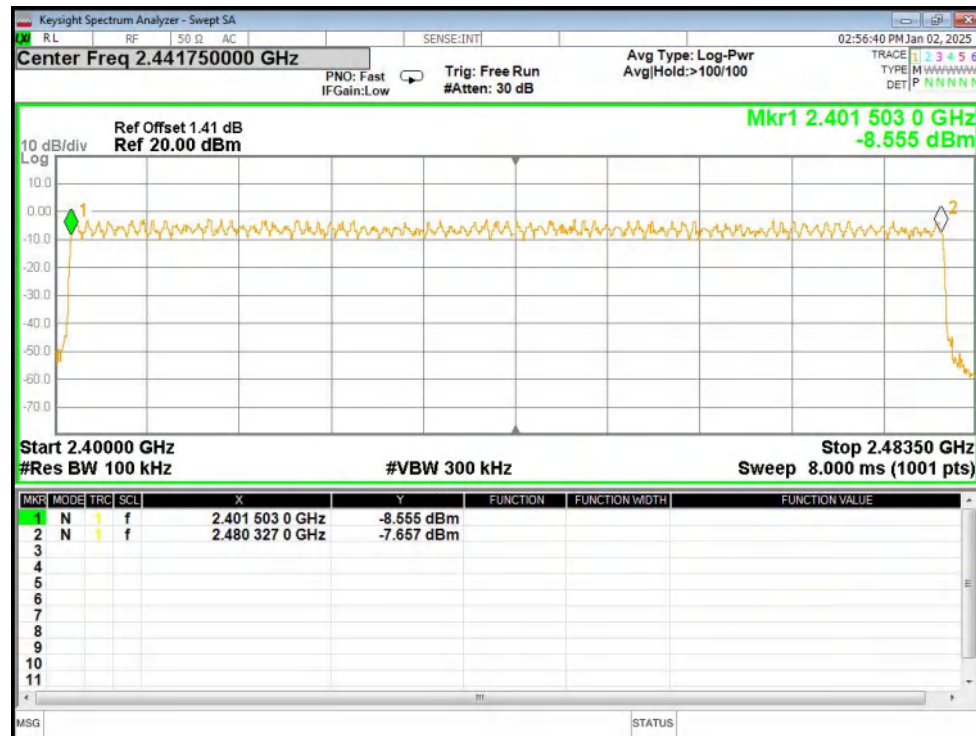
Hopping No. NVNT 1-DH5 2480MHz Ant1



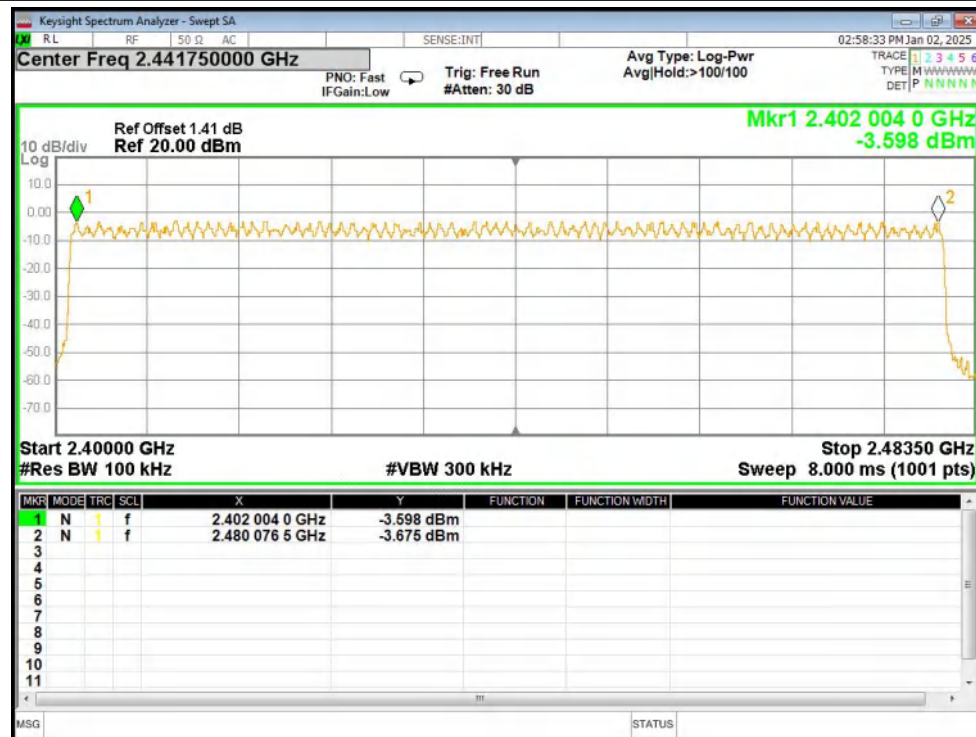
Hopping No. NVNT 2-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2441MHz Ant1



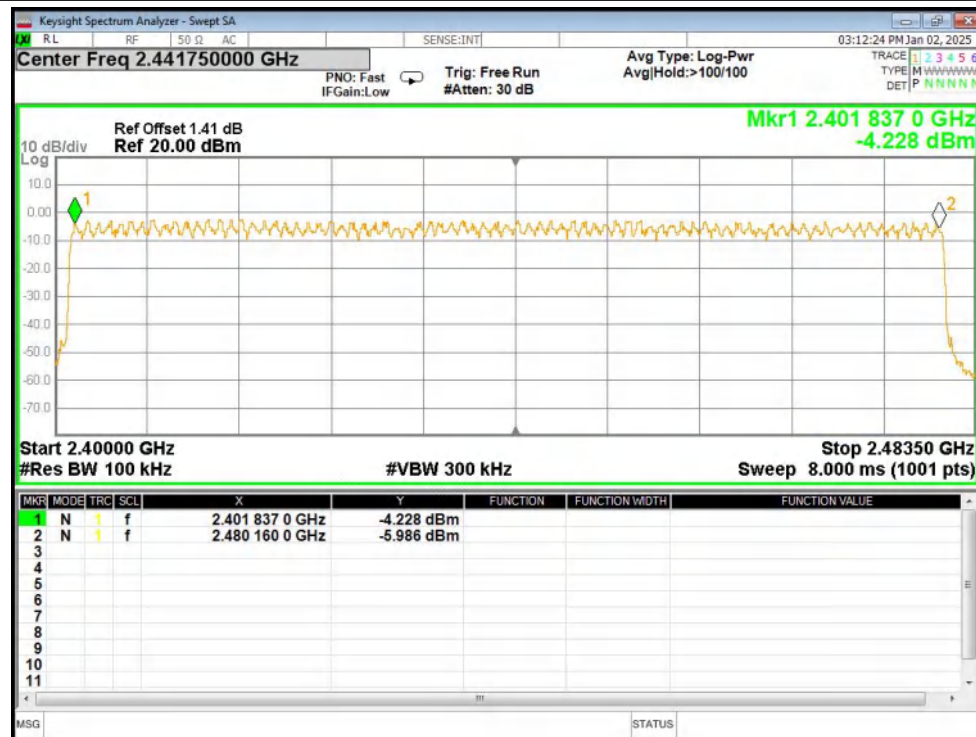
Hopping No. NVNT 2-DH5 2480MHz Ant1



Hopping No. NVNT 3-DH5 2402MHz Ant1



Hopping No. NVNT 3-DH5 2441MHz Ant1



Hopping No. NVNT 3-DH5 2480MHz Ant1

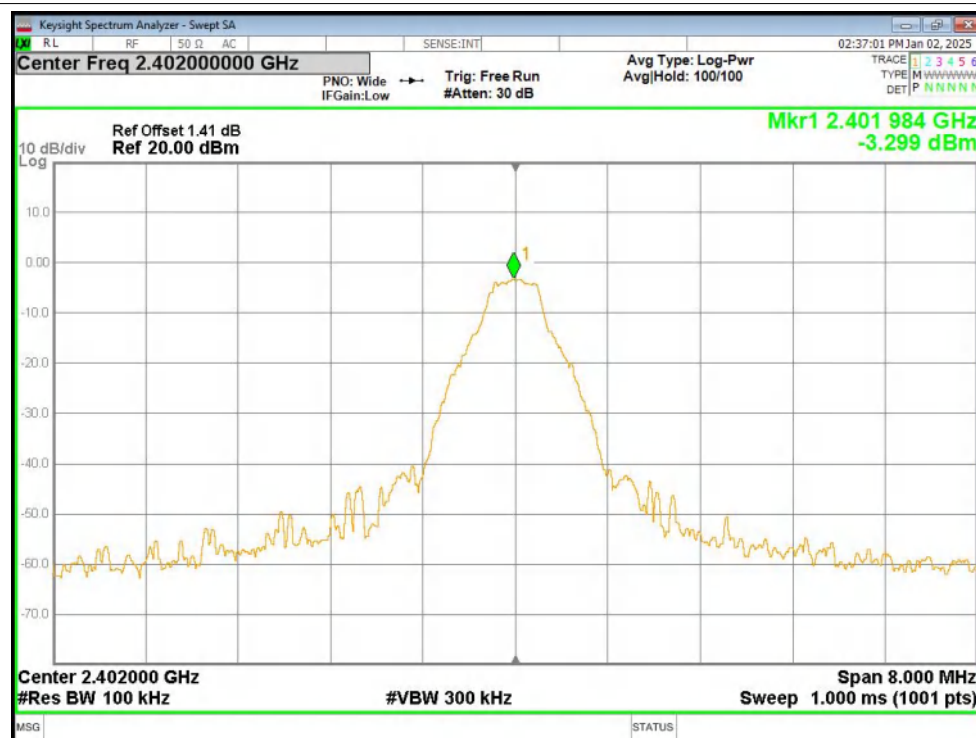


6.Band Edge

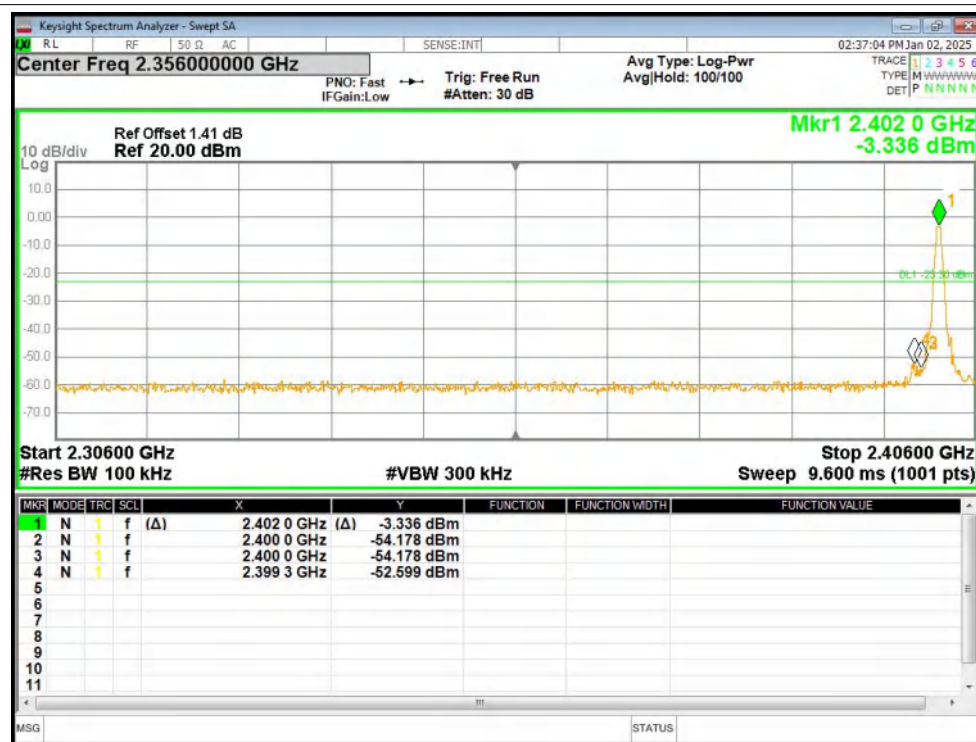
Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	No-Hopping	-49.29	-20	Pass
1-DH5	2480	No-Hopping	-52.69	-20	Pass
2-DH5	2402	No-Hopping	-48.68	-20	Pass
2-DH5	2480	No-Hopping	-54.16	-20	Pass
3-DH5	2402	No-Hopping	-49.23	-20	Pass
3-DH5	2480	No-Hopping	-53.6	-20	Pass

Test Graphs

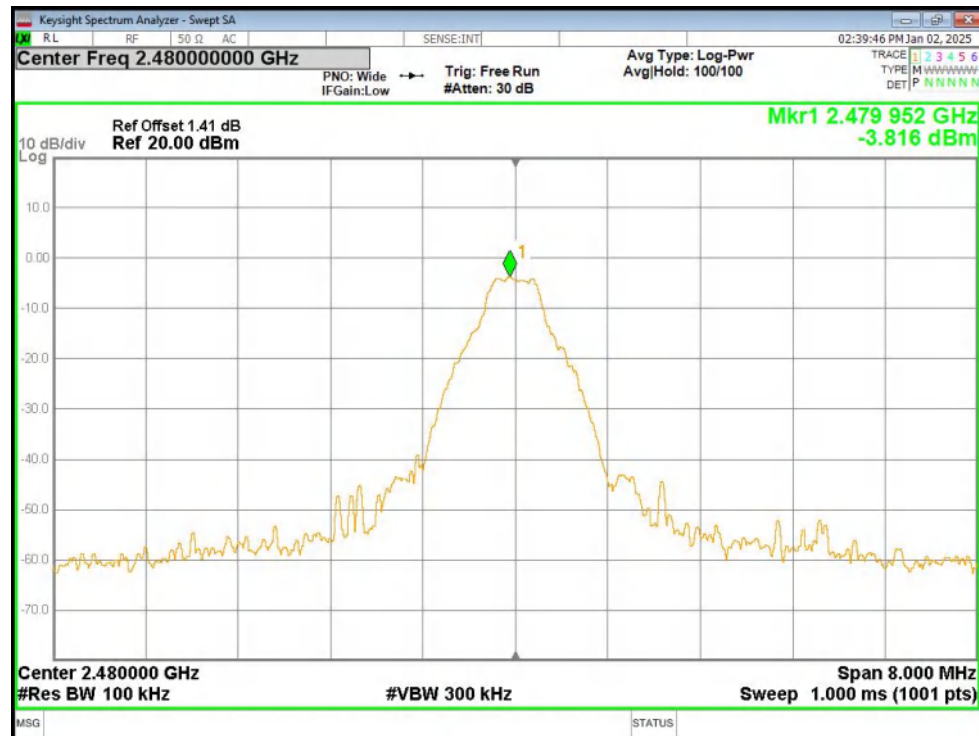
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



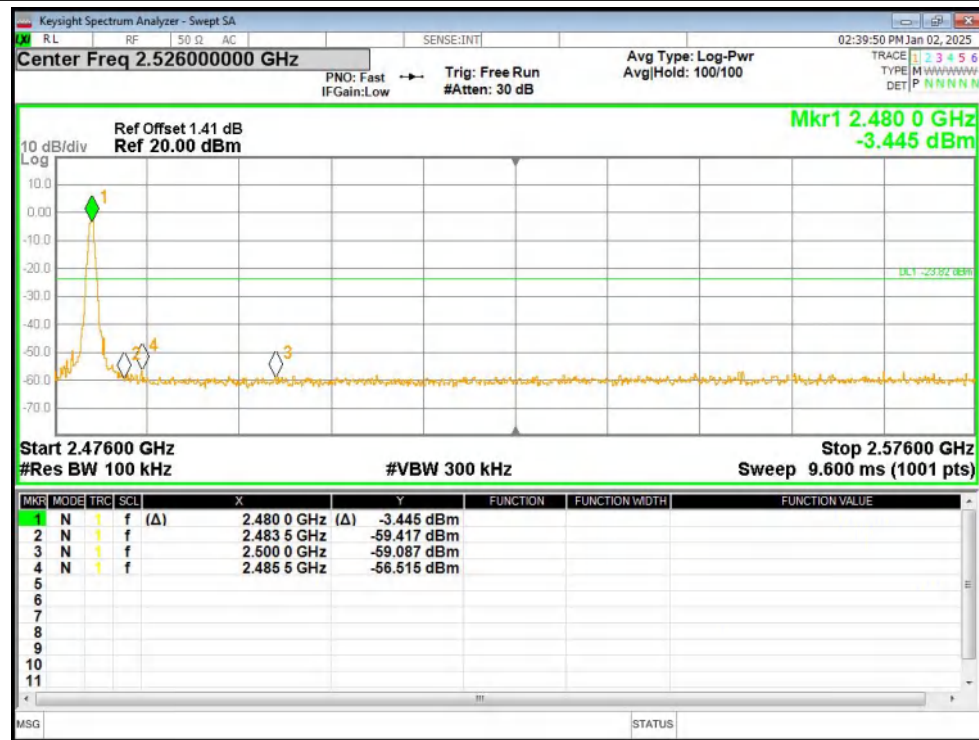
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



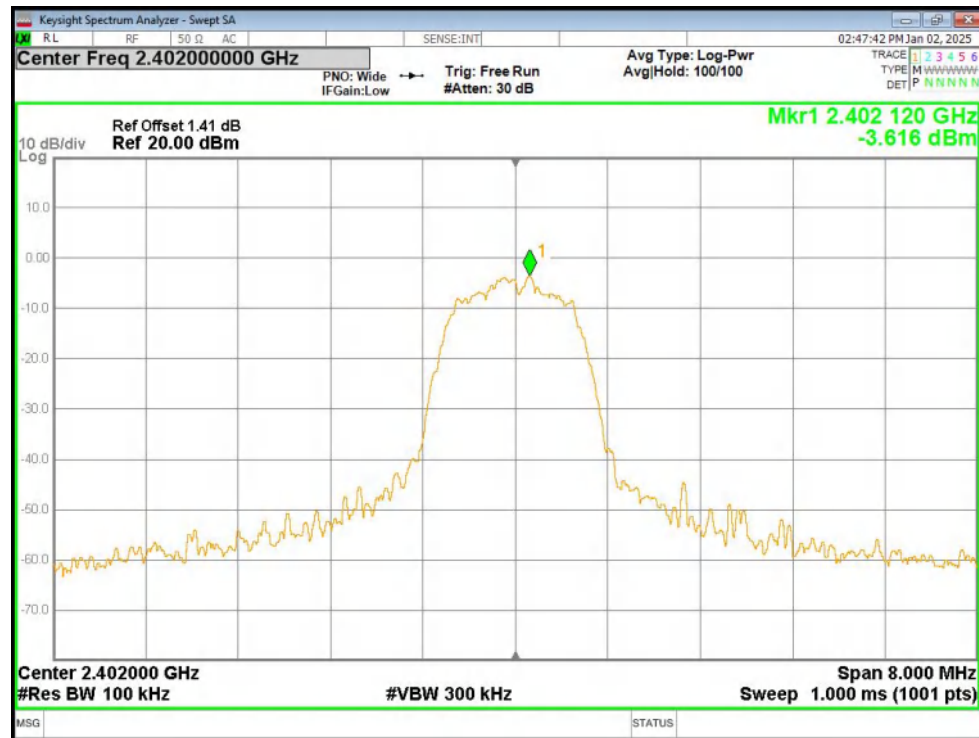
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



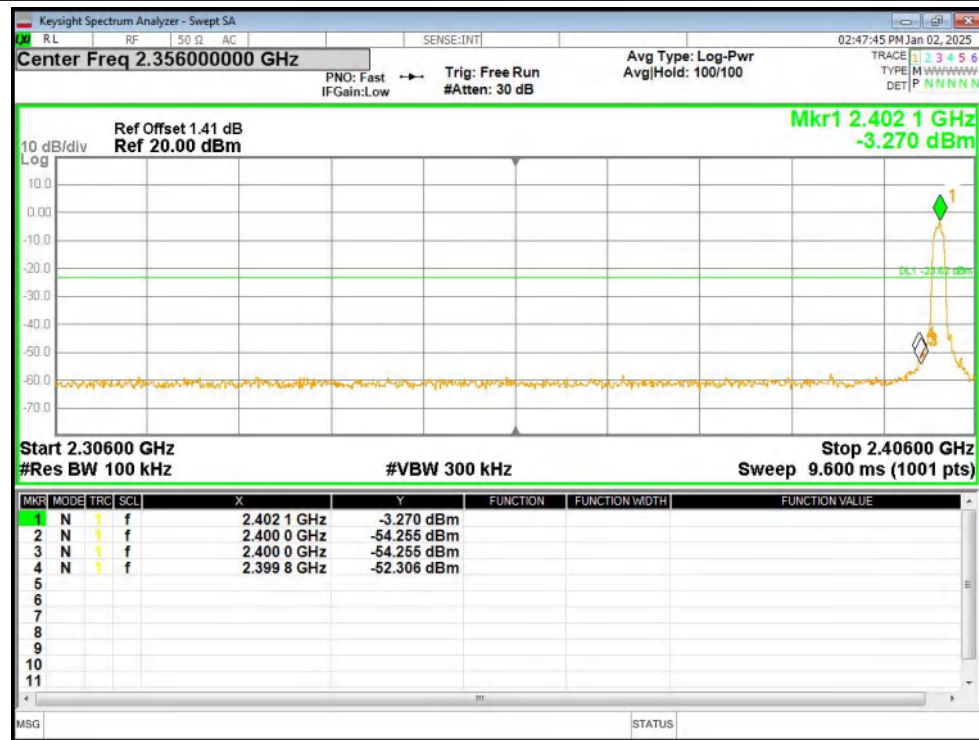
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



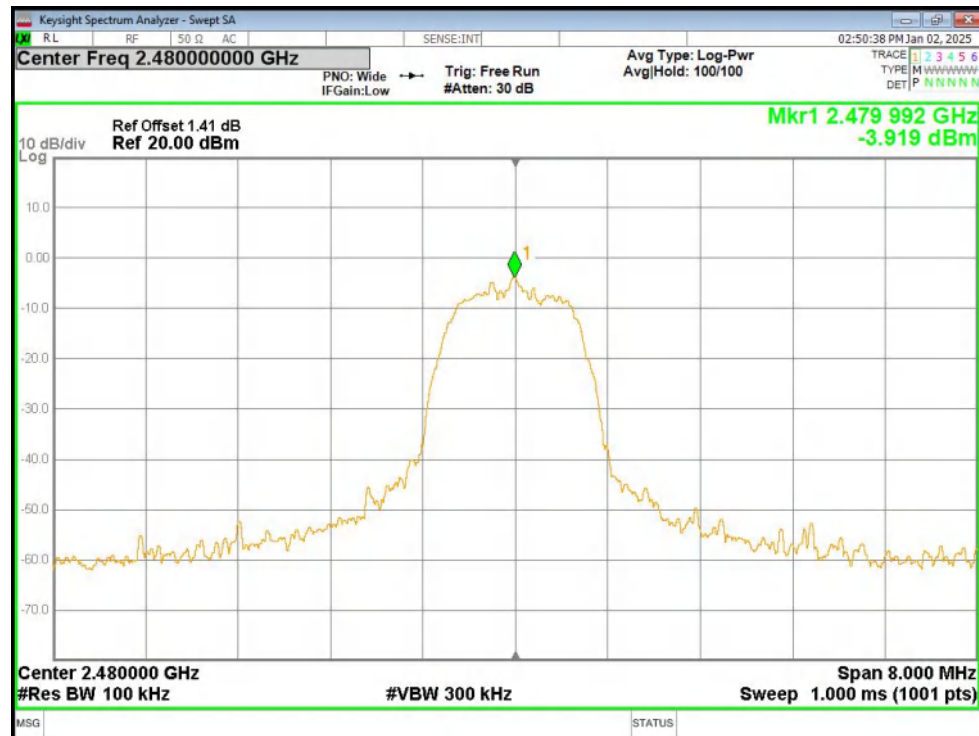
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



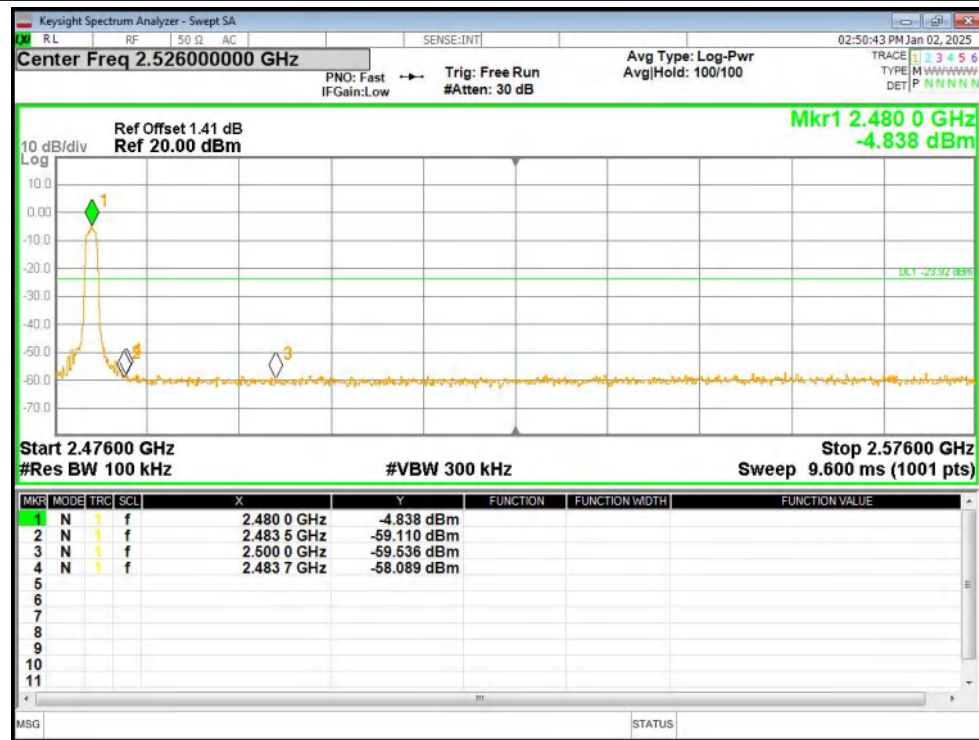
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



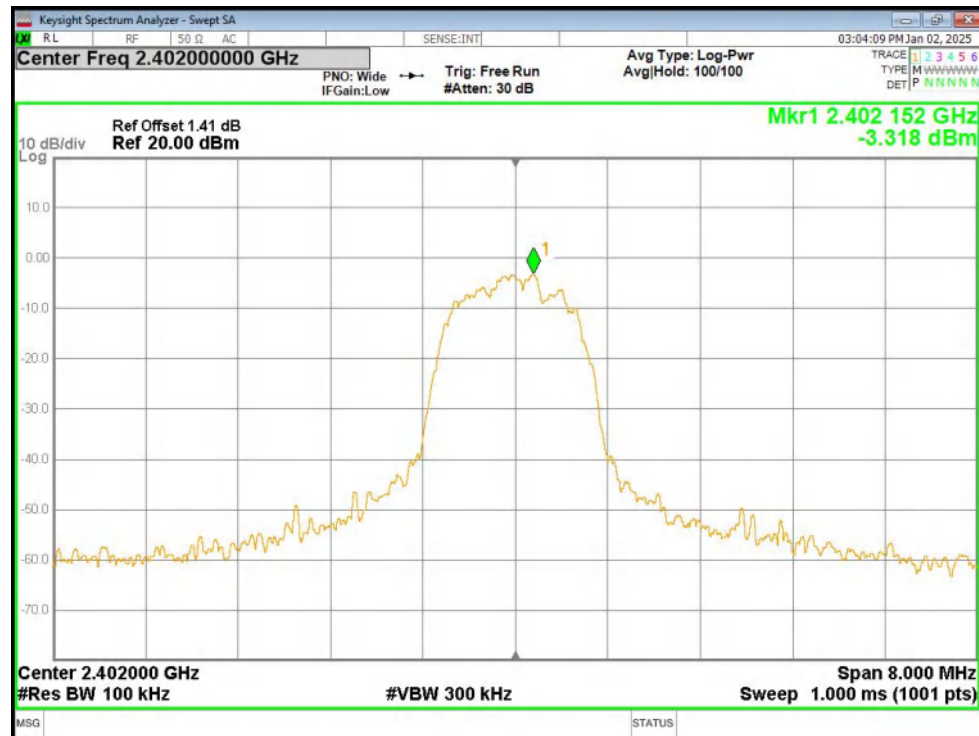
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



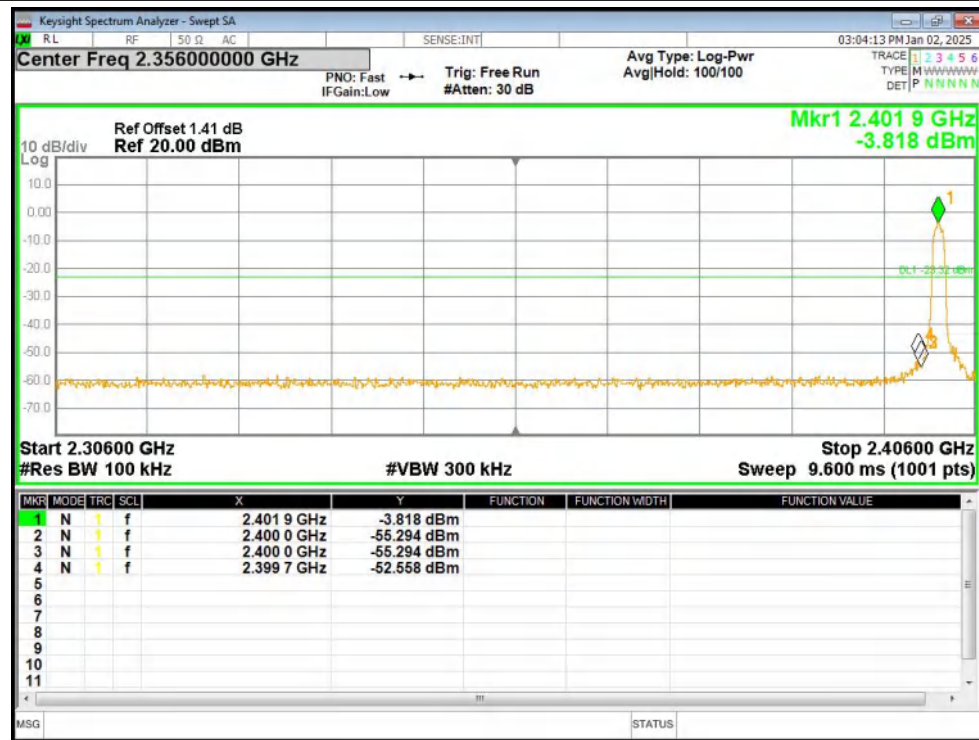
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



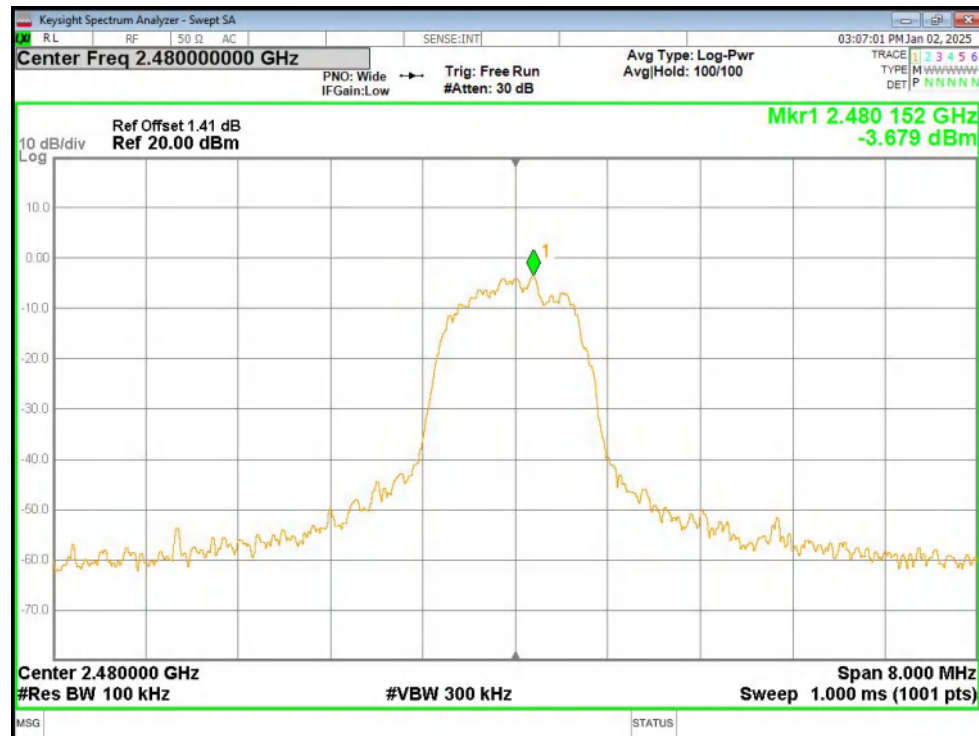
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



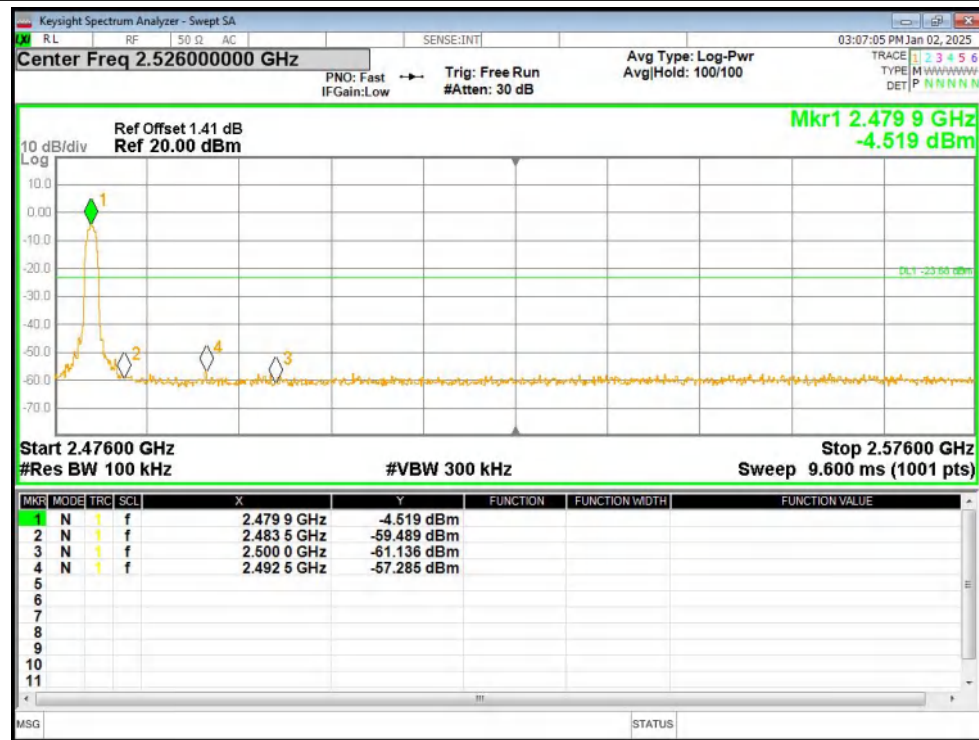
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



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



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

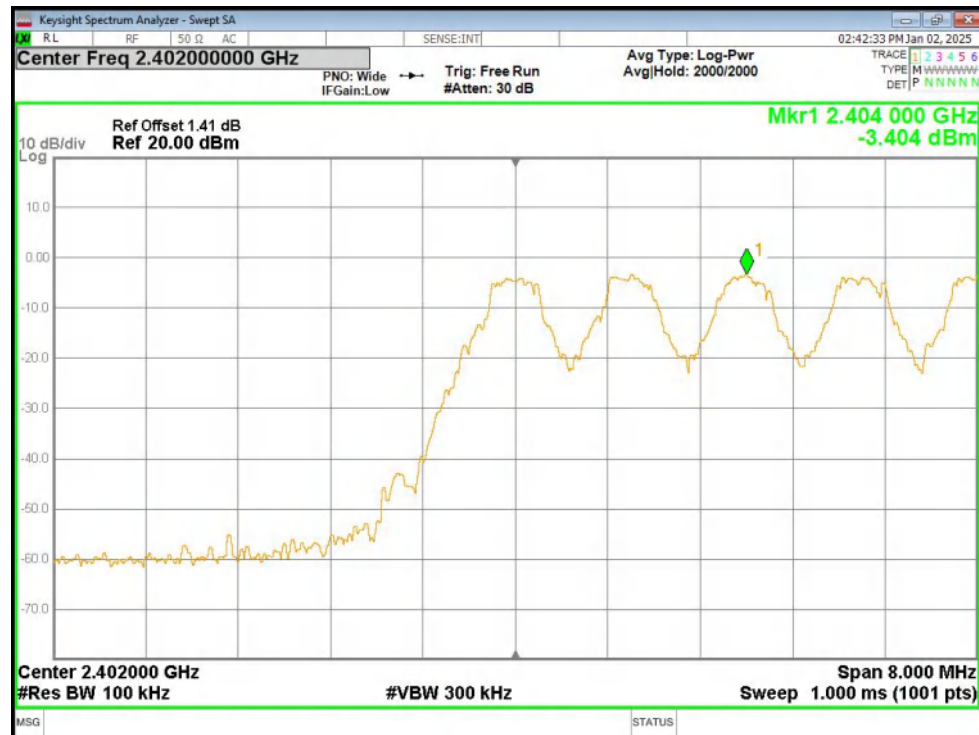


7.Band Edge(Hopping)

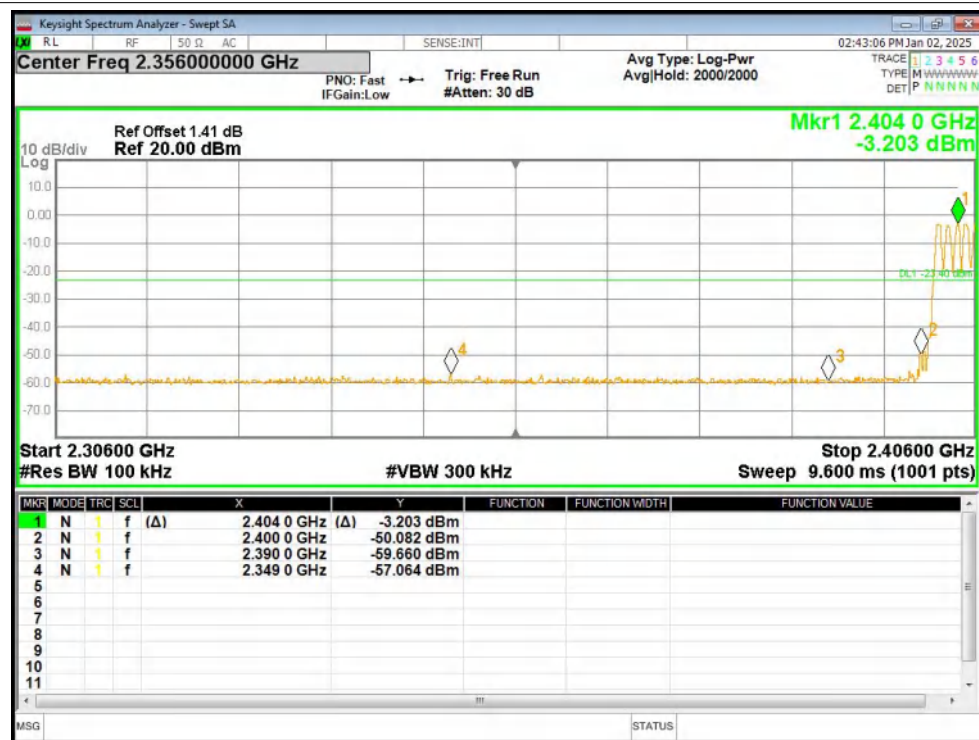
Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	Hopping	-53.66	-20	Pass
1-DH5	2480	Hopping	-53.64	-20	Pass
2-DH5	2402	Hopping	-53.13	-20	Pass
2-DH5	2480	Hopping	-52.85	-20	Pass
3-DH5	2402	Hopping	-53.47	-20	Pass
3-DH5	2480	Hopping	-52.55	-20	Pass

Test Graphs

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



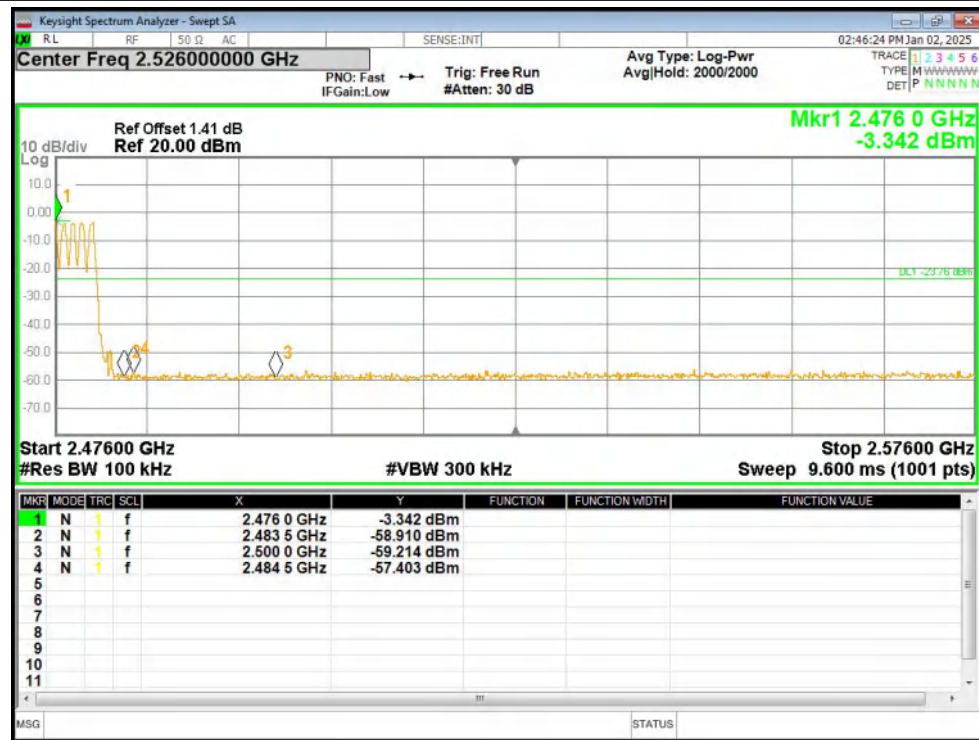
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



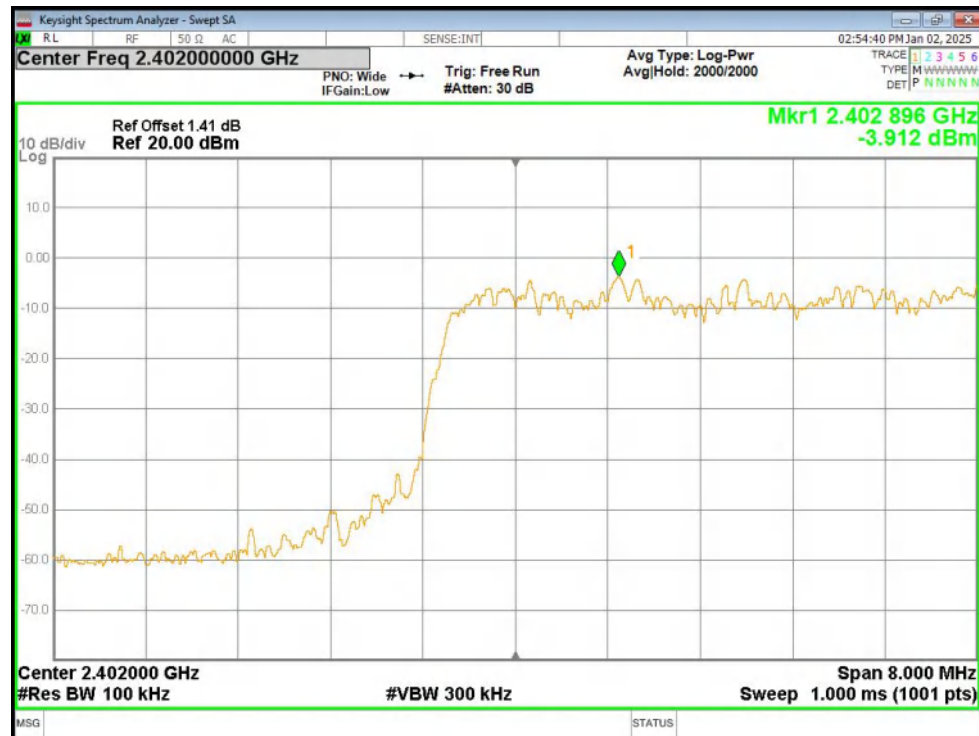
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



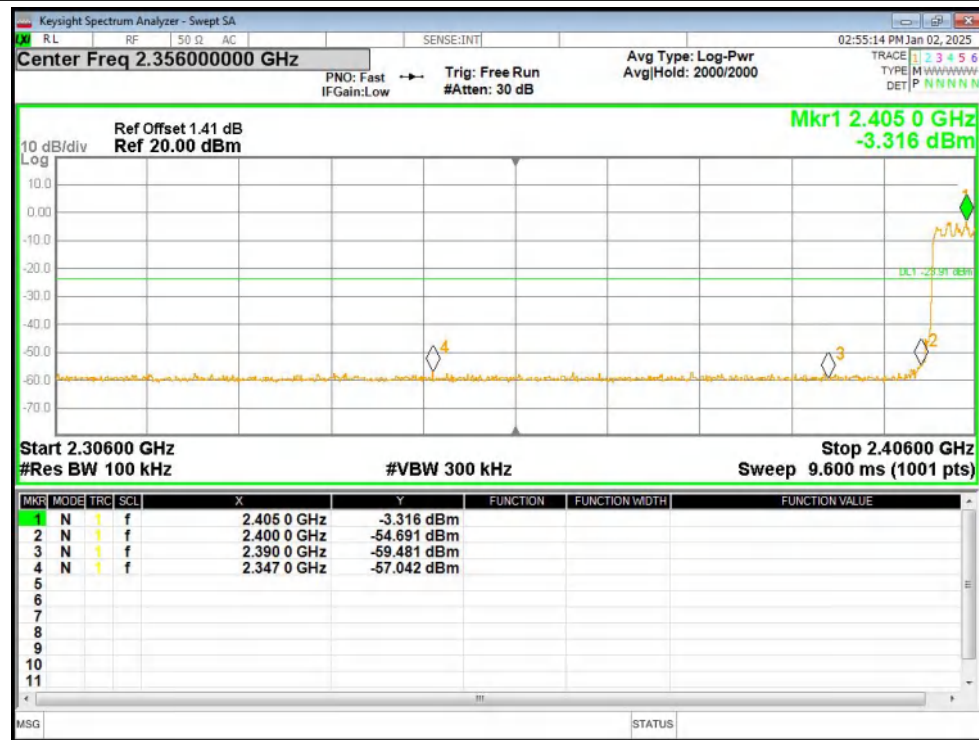
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



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



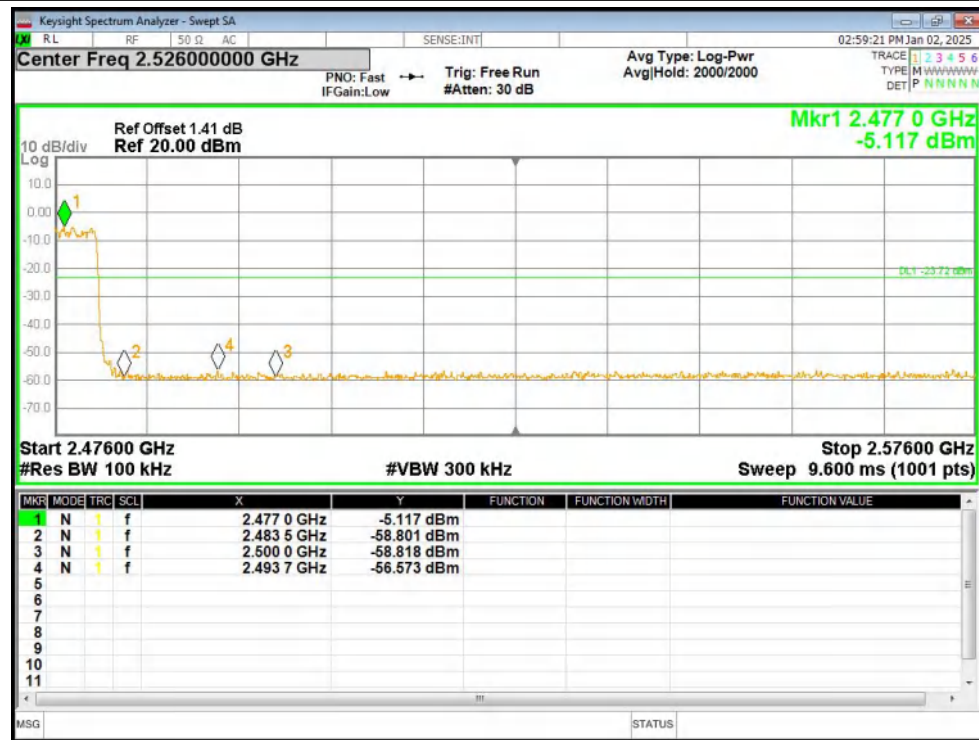
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



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



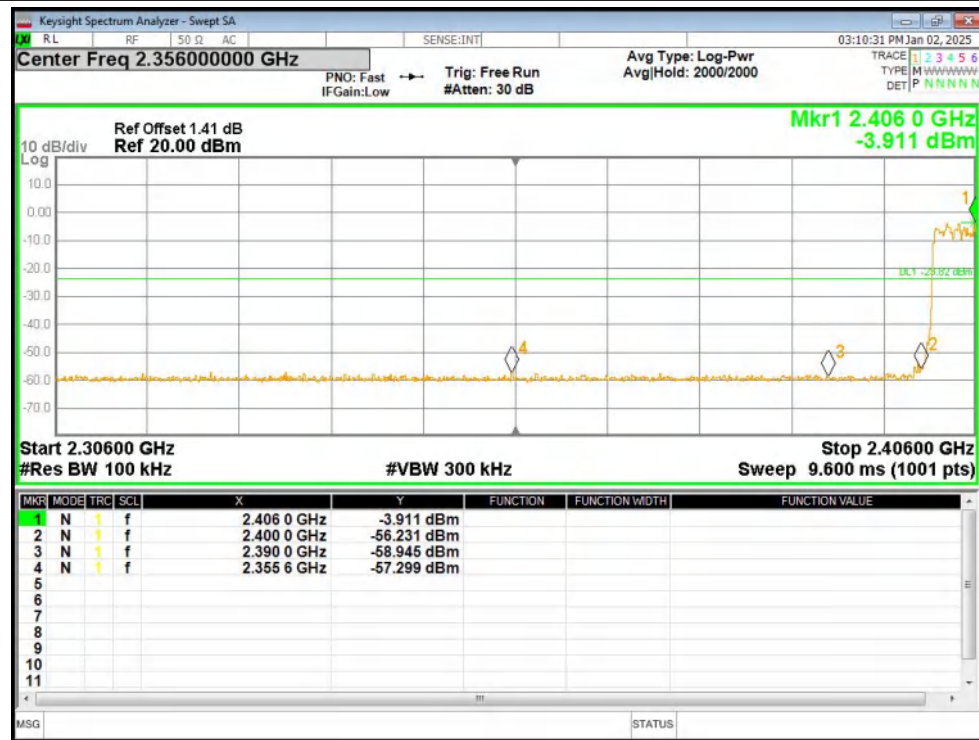
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



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



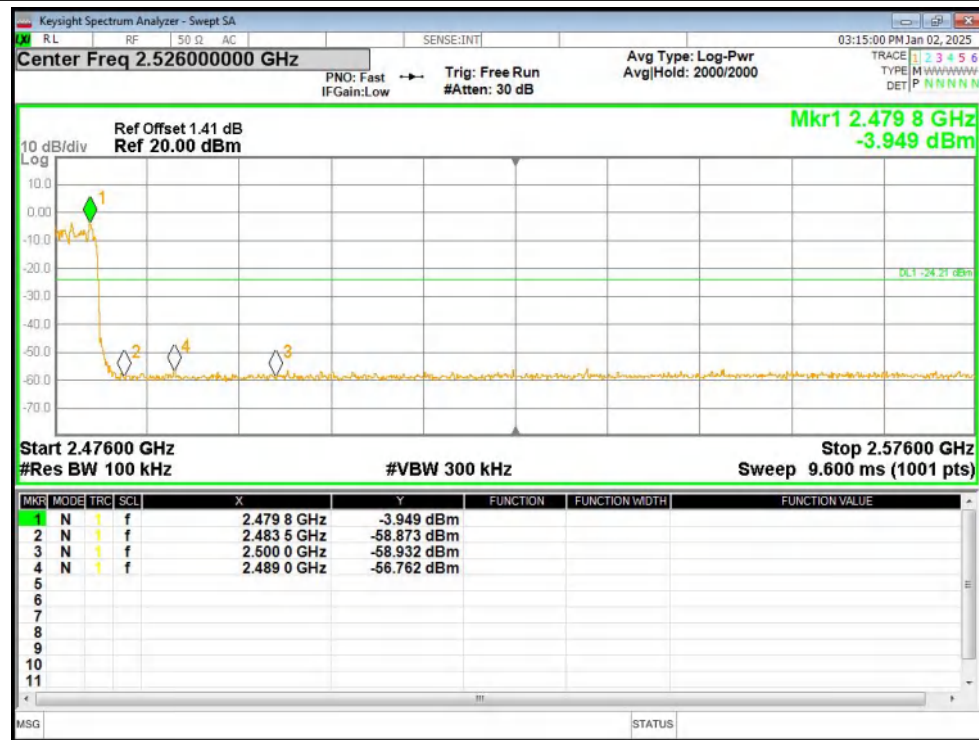
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



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



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

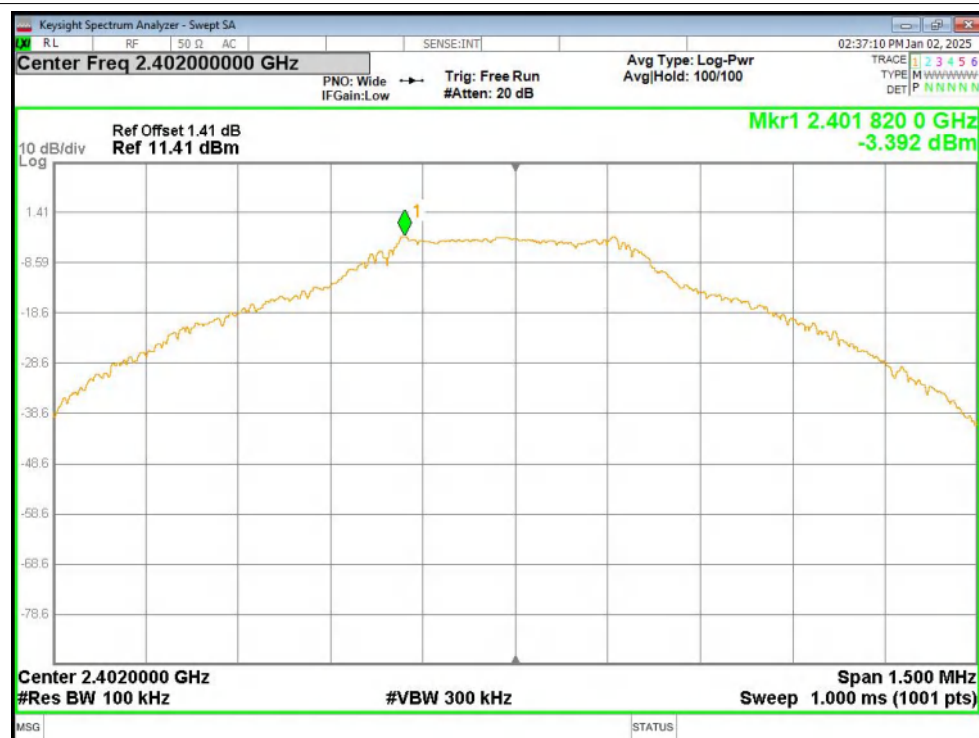


8. Conducted RF Spurious Emission

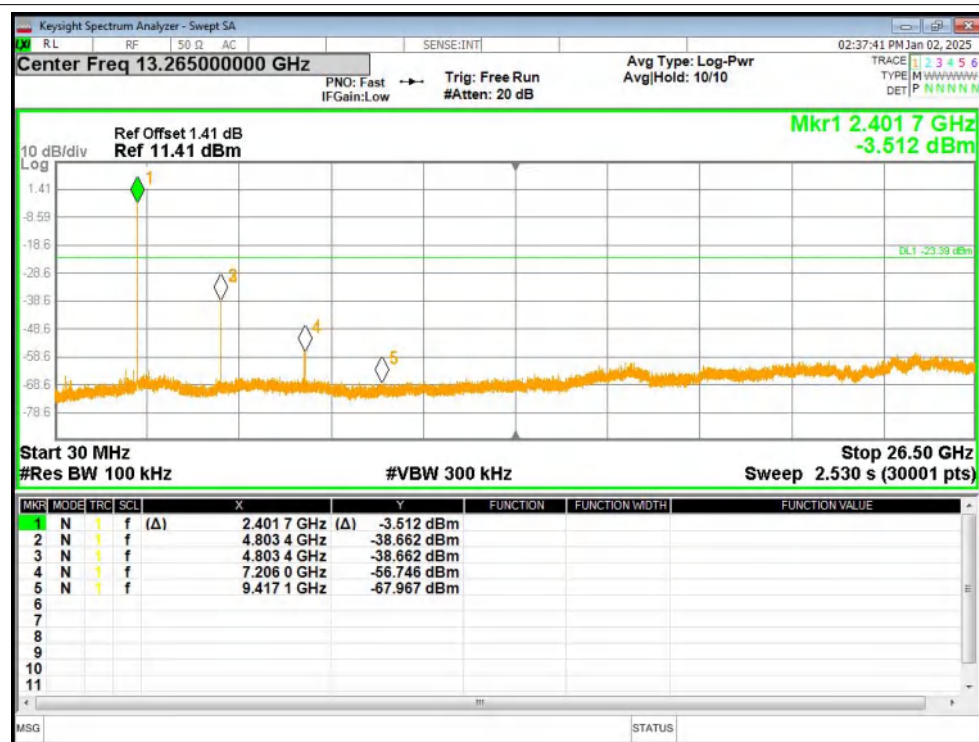
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	-35.27	-20	Pass
1-DH5	2441	-37.54	-20	Pass
1-DH5	2480	-36.18	-20	Pass
2-DH5	2402	-36.42	-20	Pass
2-DH5	2441	-37.85	-20	Pass
2-DH5	2480	-34.34	-20	Pass
3-DH5	2402	-33.27	-20	Pass
3-DH5	2441	-35.34	-20	Pass
3-DH5	2480	-35.36	-20	Pass

Test Graphs

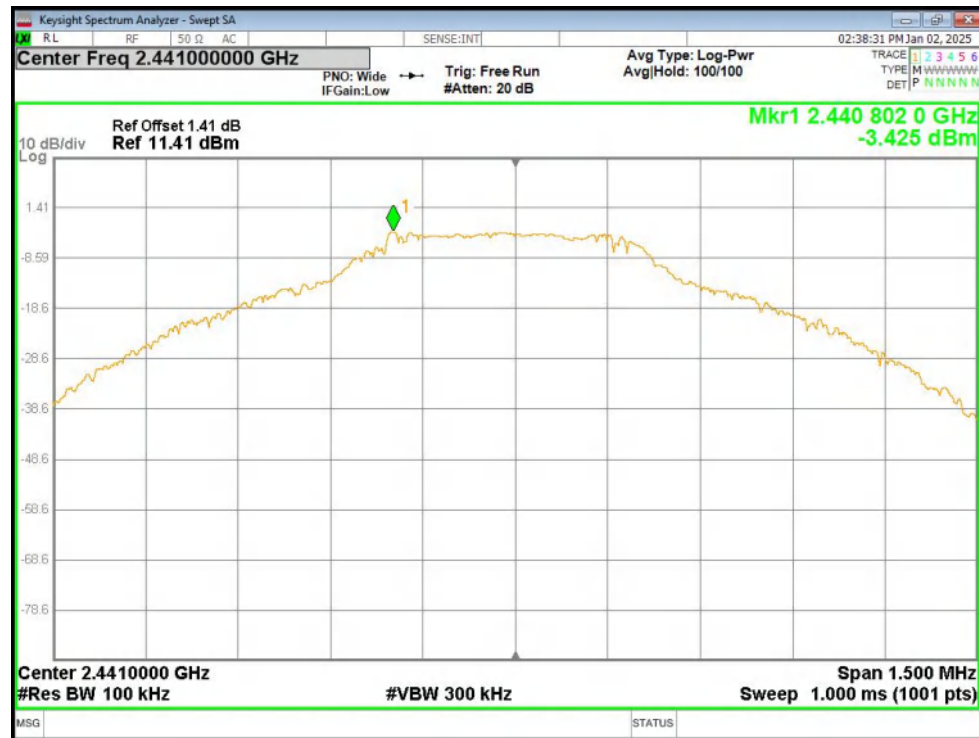
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



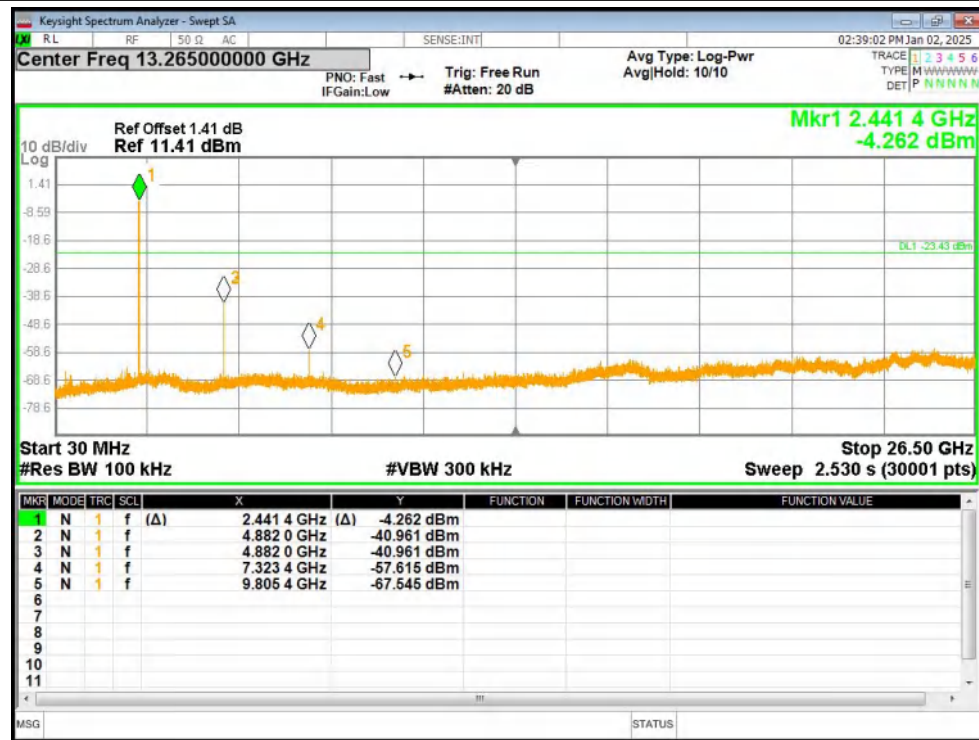
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



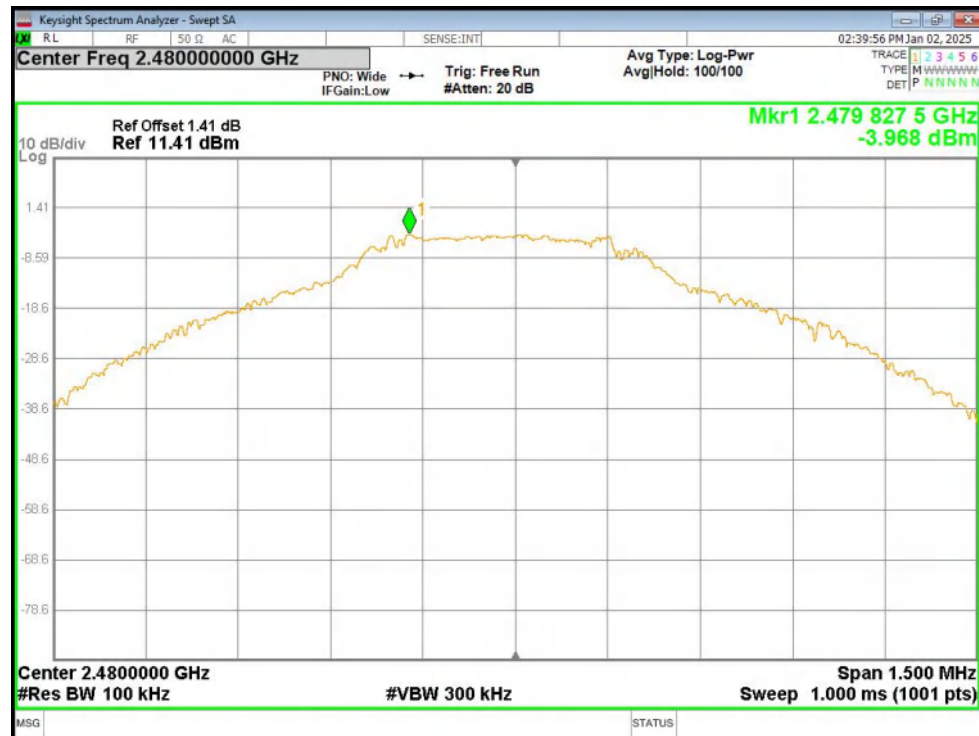
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



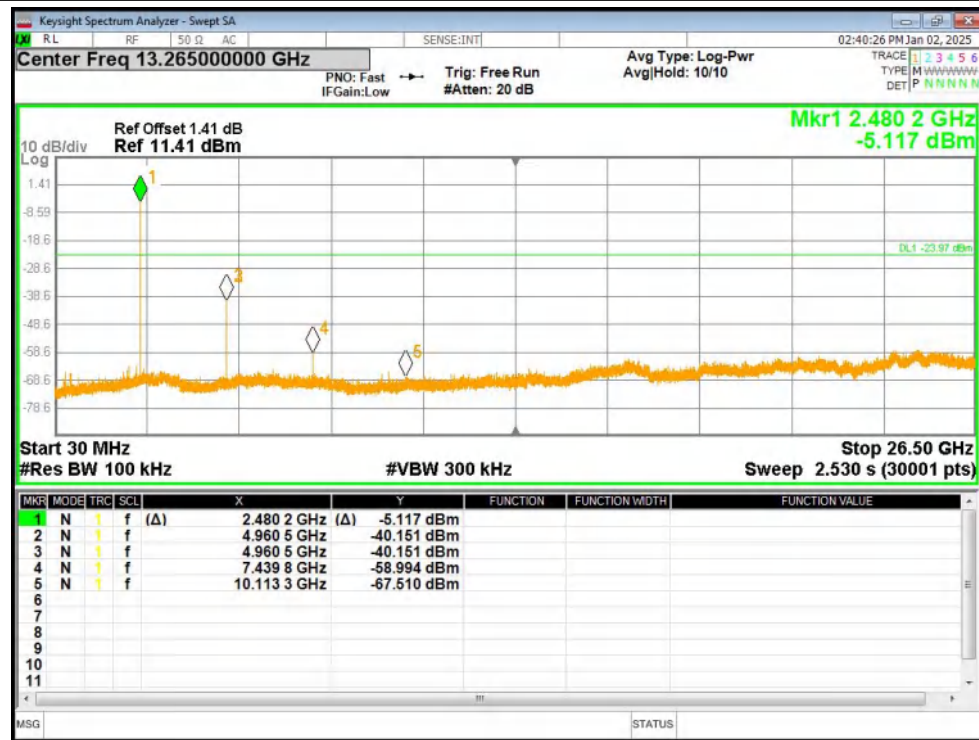
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



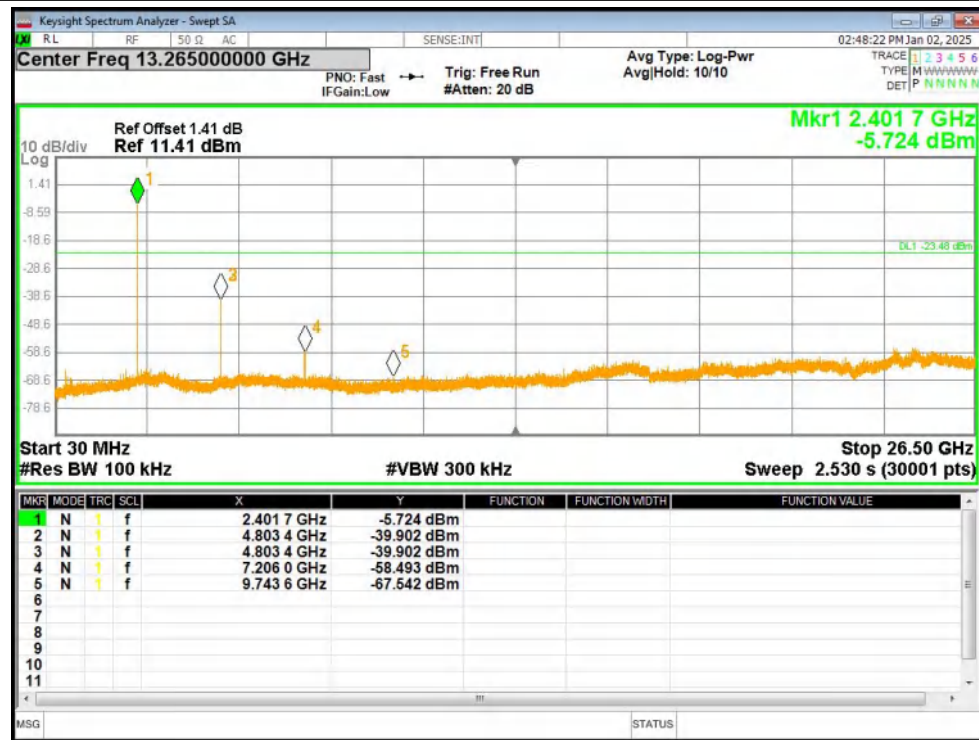
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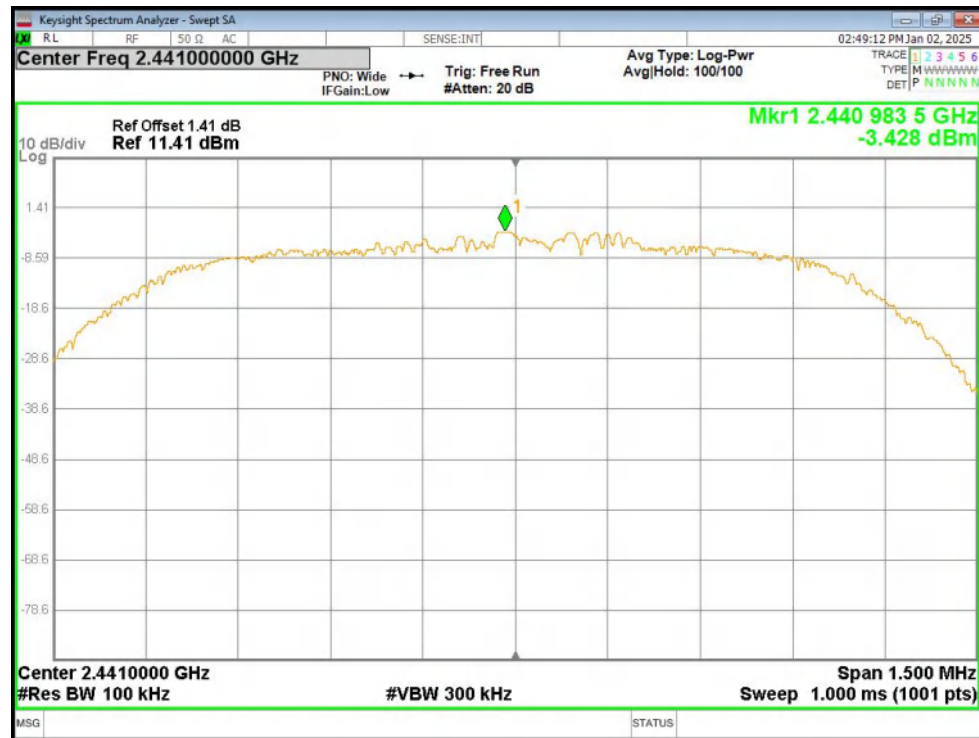
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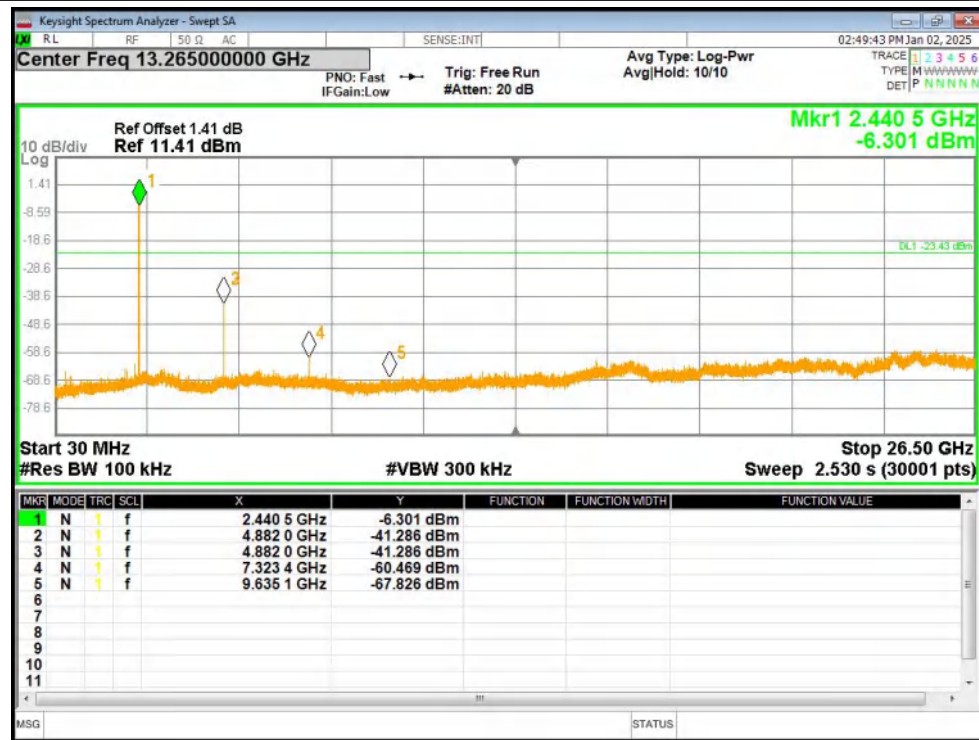
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



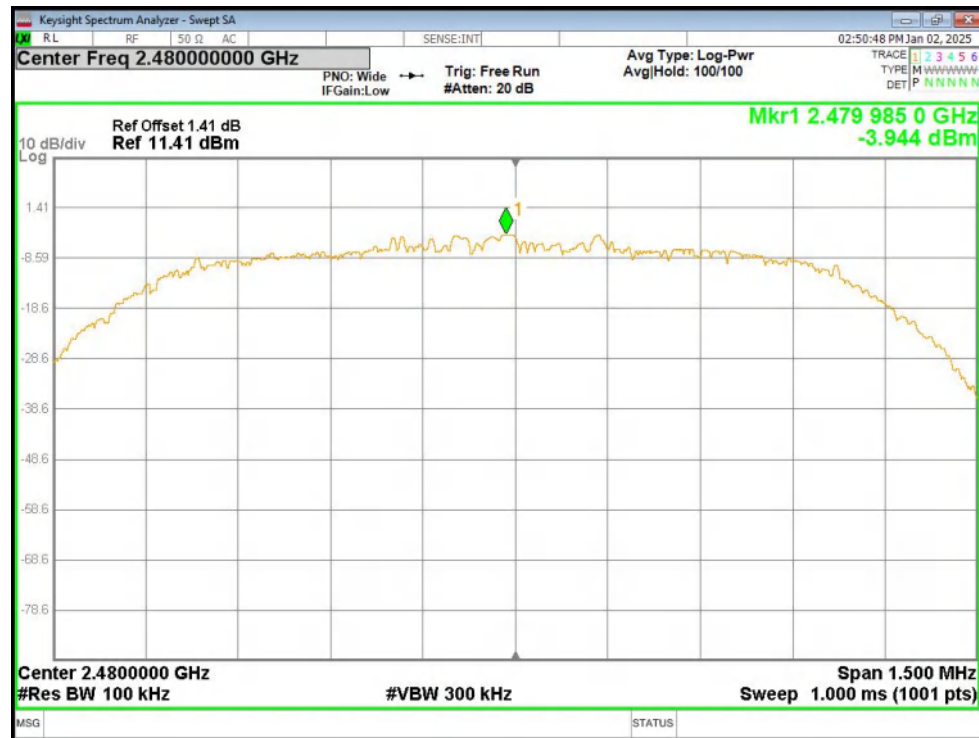
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



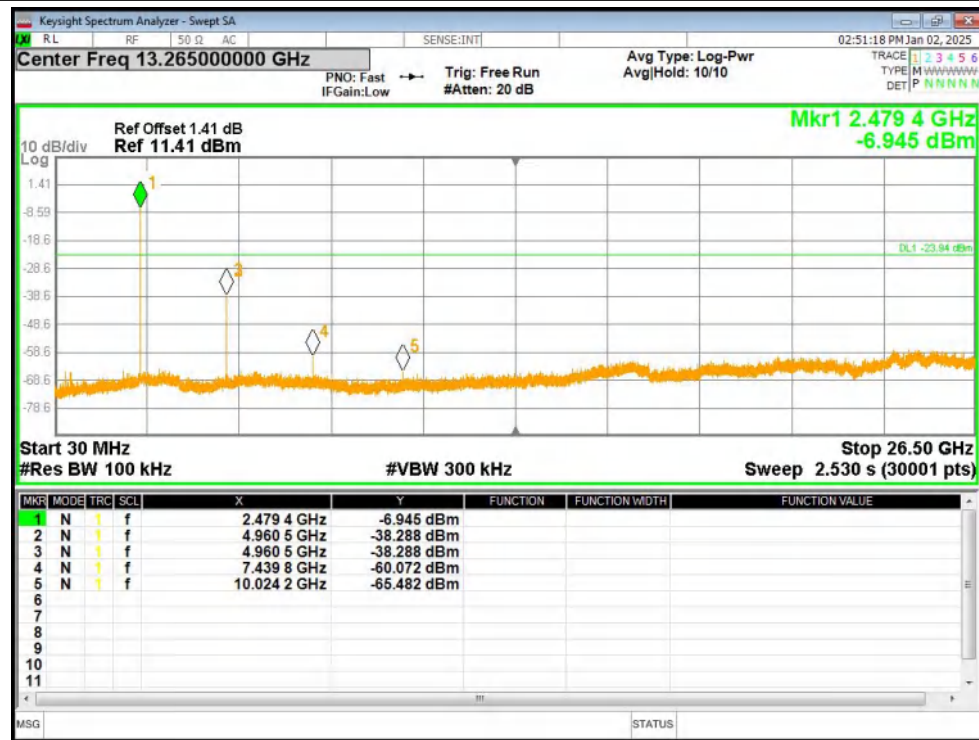
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



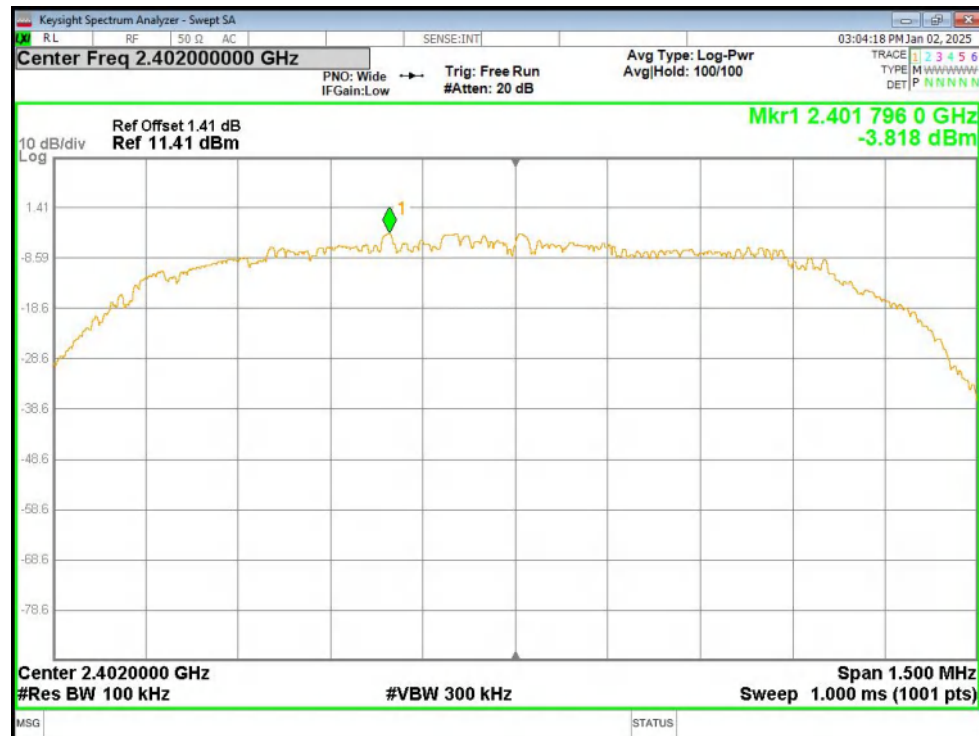
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



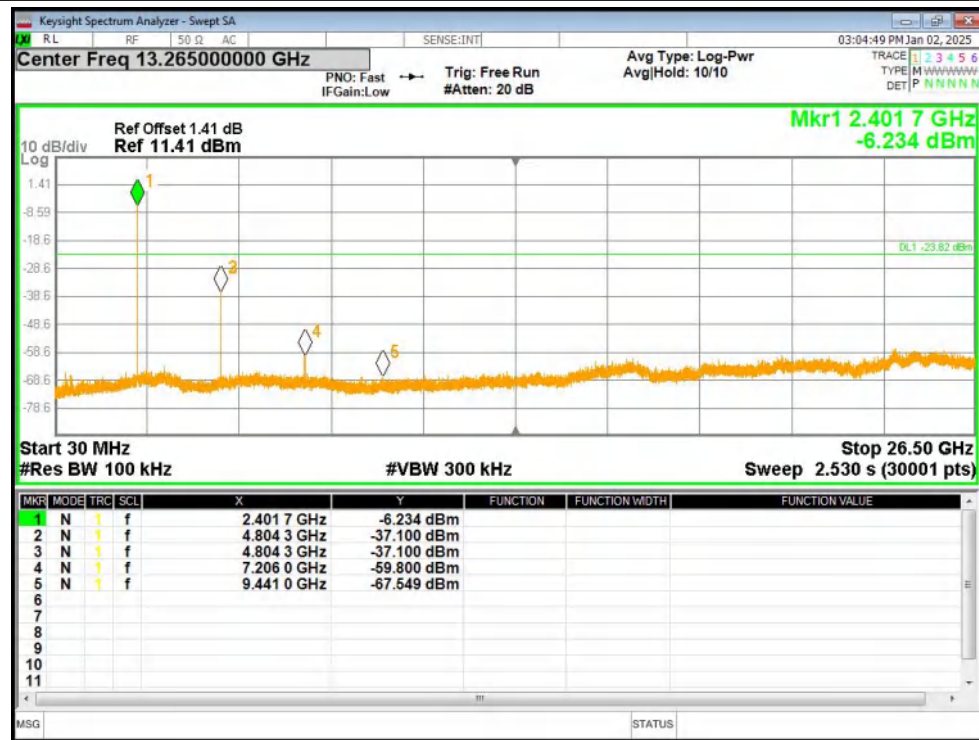
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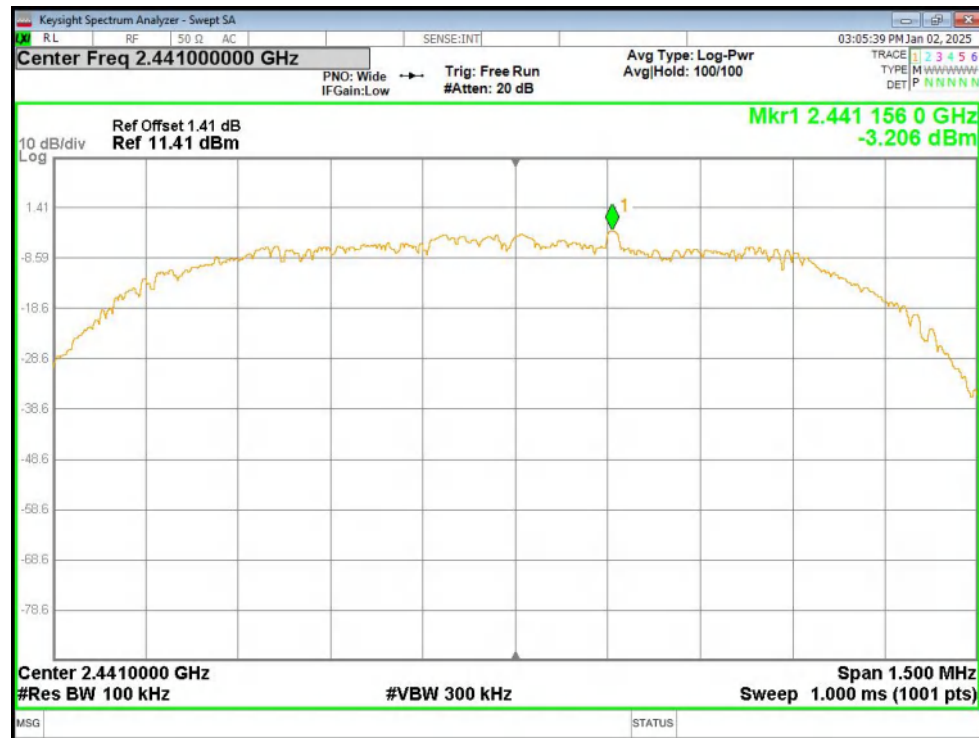
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



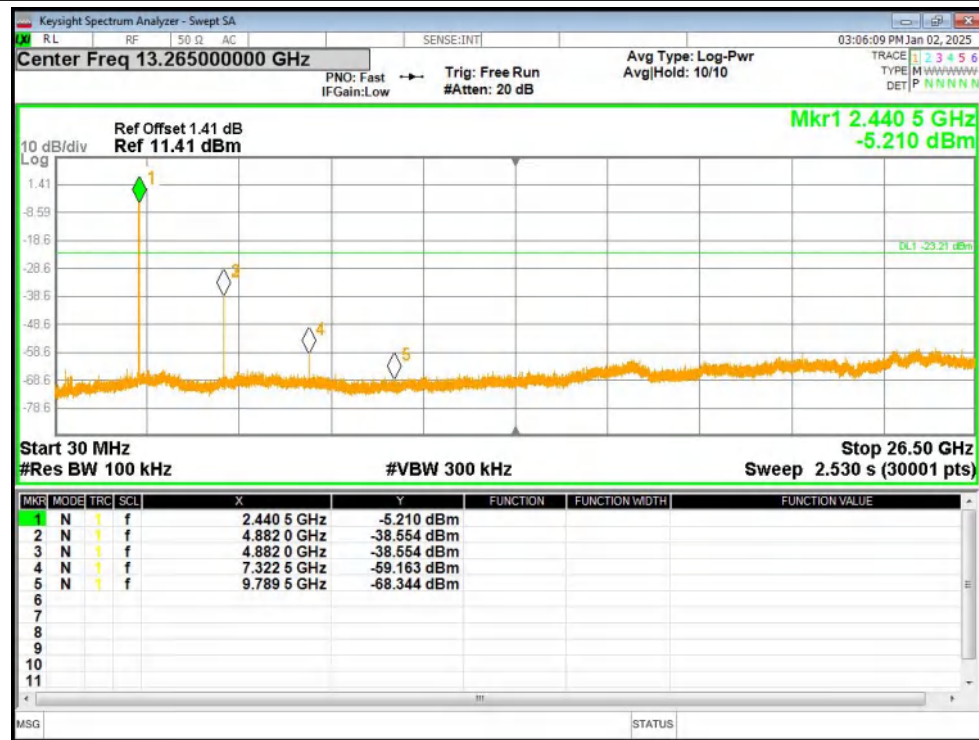
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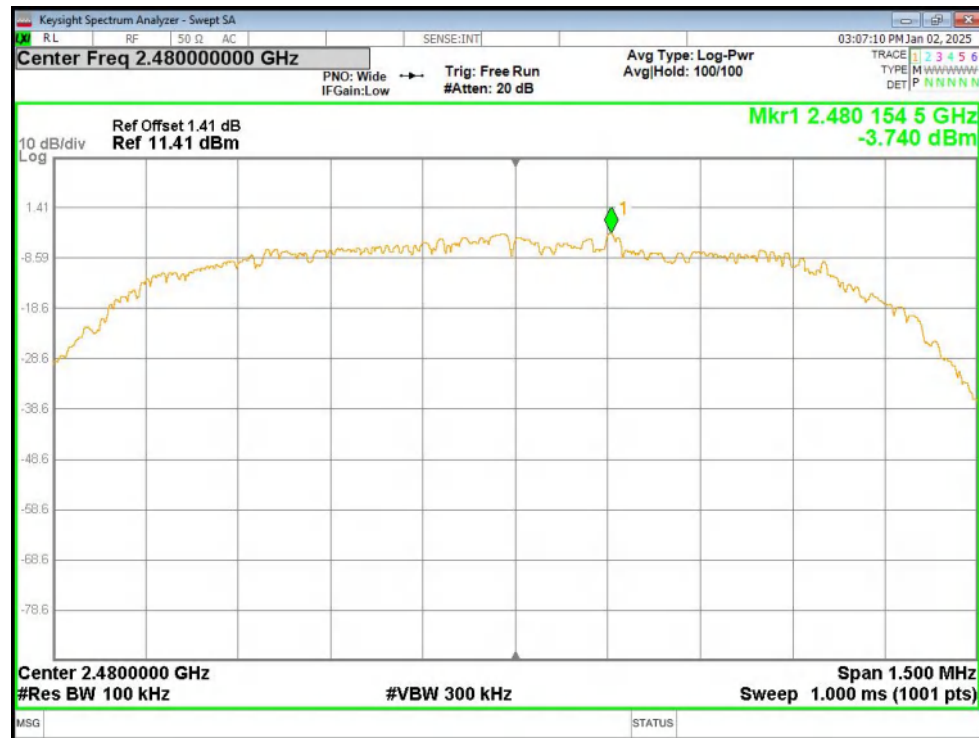
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

