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FCC ID EDR

FCC_BT(Part15.247) Test Data

1.Dwell Time

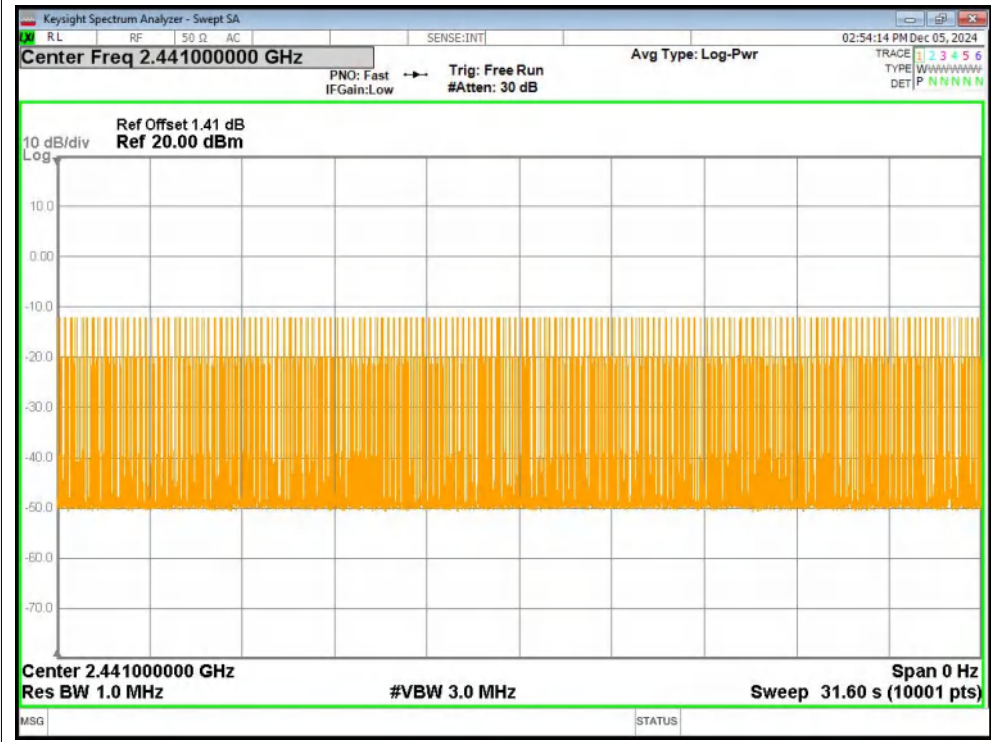
Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2441	0.412	131.016	318	31600	400	Pass
1-DH3	2441	1.667	253.384	152	31600	400	Pass
1-DH5	2441	2.915	303.16	104	31600	400	Pass
2-DH1	2441	0.418	132.506	317	31600	400	Pass
2-DH3	2441	1.673	281.064	168	31600	400	Pass
2-DH5	2441	2.918	303.472	104	31600	400	Pass
3-DH1	2441	0.424	135.256	319	31600	400	Pass
3-DH3	2441	1.67	257.18	154	31600	400	Pass
3-DH5	2441	2.921	303.784	104	31600	400	Pass

Test Graphs

Dwell NVNT 1-DH1 2441MHz Ant1 One Burst



Dwell NVNT 1-DH1 2441MHz Ant1 Accumulated



[illegible]

Keysight Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT 02:54:59 PM Dec 05, 2024

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

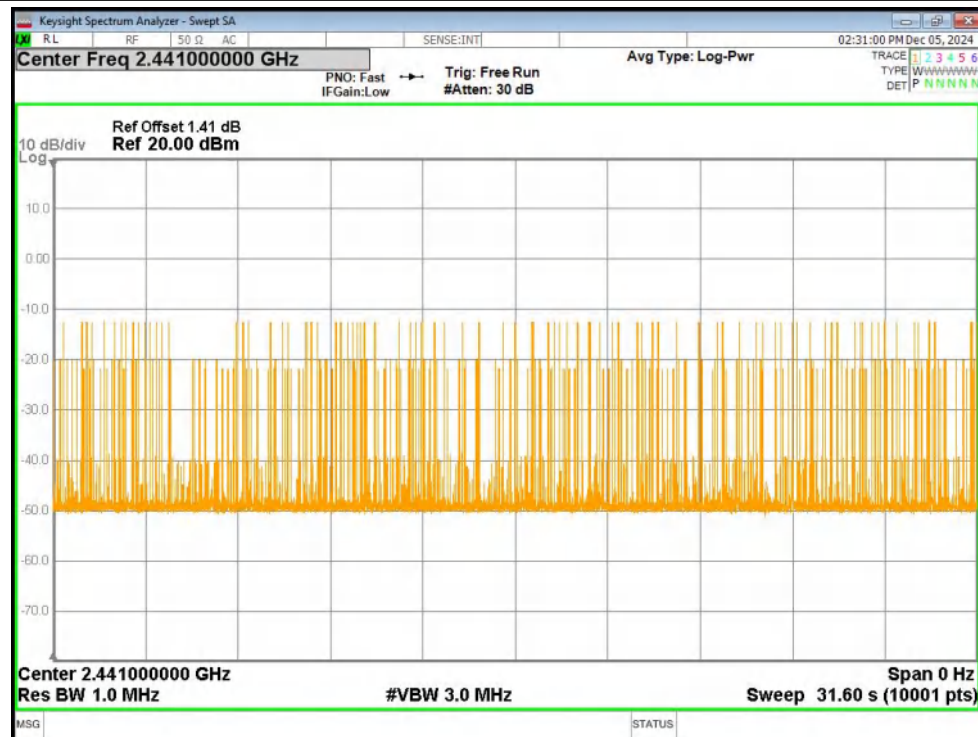
Center 2.441000000 GHz Span 0 Hz
Res BW 1.0 MHz #VBW 3.0 MHz Sweep 31.60 s (10001 pts)

MSG STATUS

Dwell NVNT 1-DH5 2441MHz Ant1 One Burst



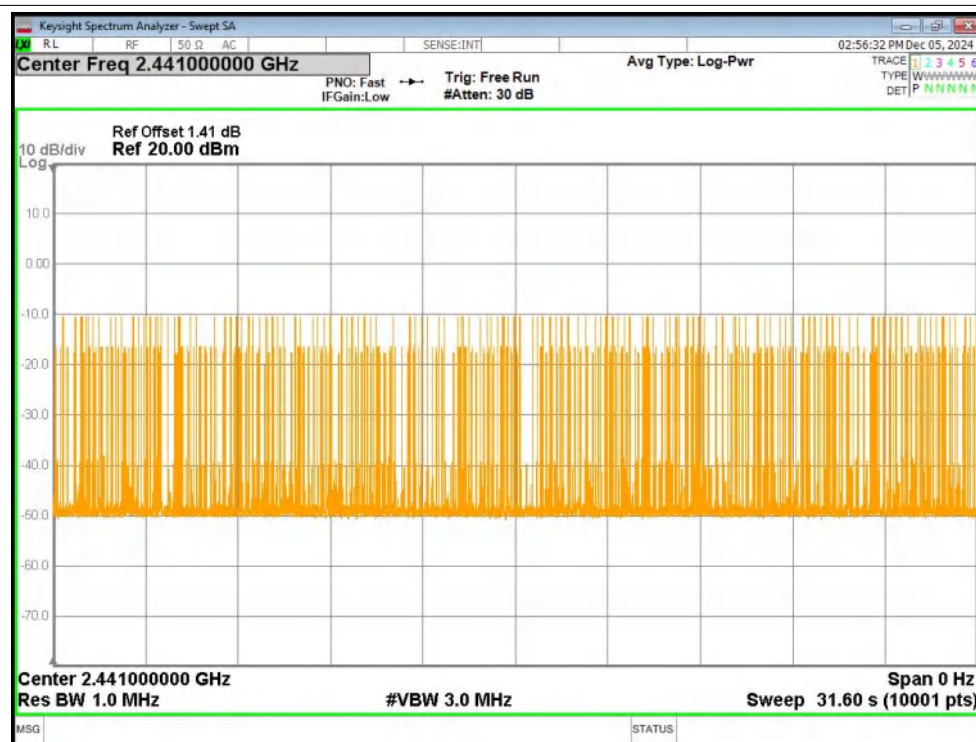
Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated



Dwell NVNT 2-DH3 2441MHz Ant1 One Burst



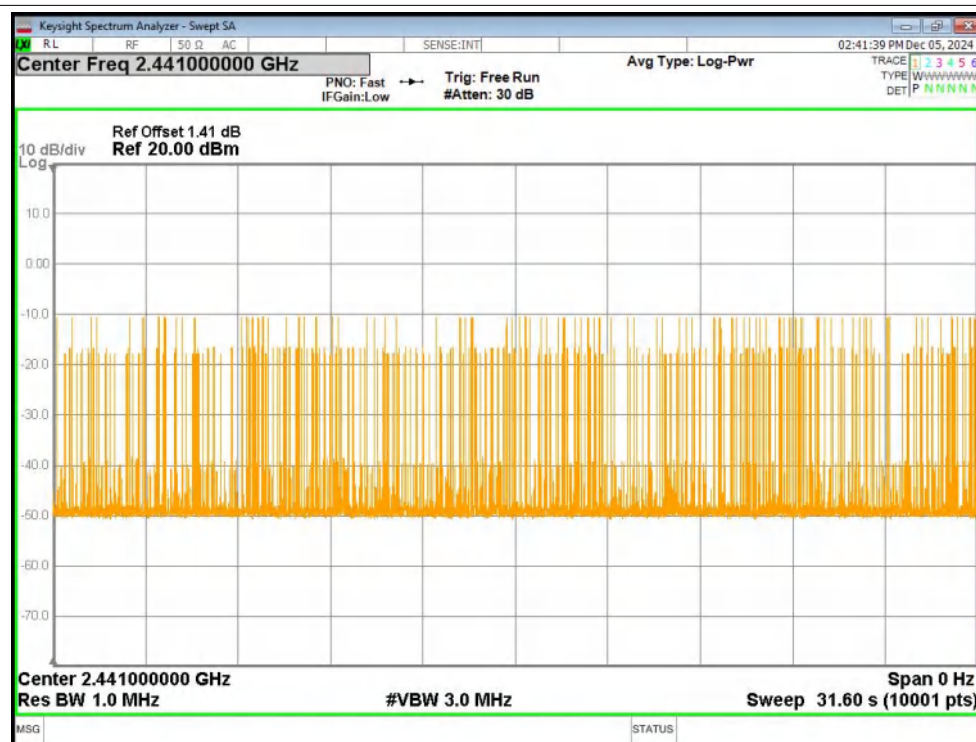
Dwell NVNT 2-DH3 2441MHz Ant1 Accumulated



Dwell NVNT 2-DH5 2441MHz Ant1 One Burst



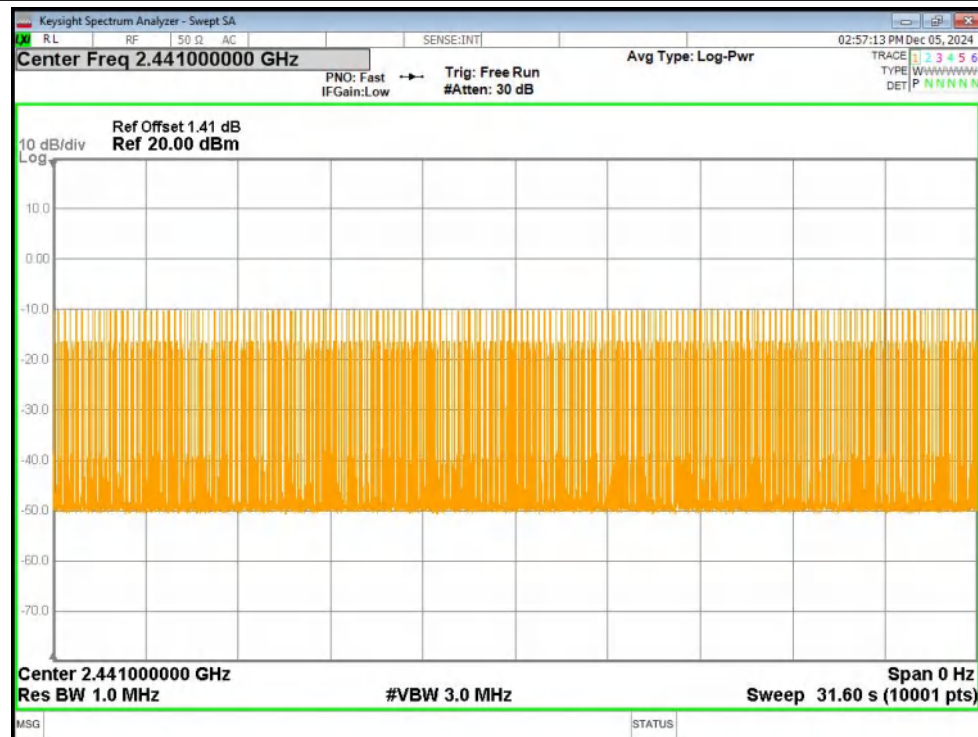
Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated



Dwell NVNT 3-DH1 2441MHz Ant1 One Burst



Dwell NVNT 3-DH1 2441MHz Ant1 Accumulated



[illegible]

Keysight Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT 02:51:41 PM Dec 05, 2024

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

Ref Offset 1.41 dB
Ref 20.00 dBm

10 dB/div
Log

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

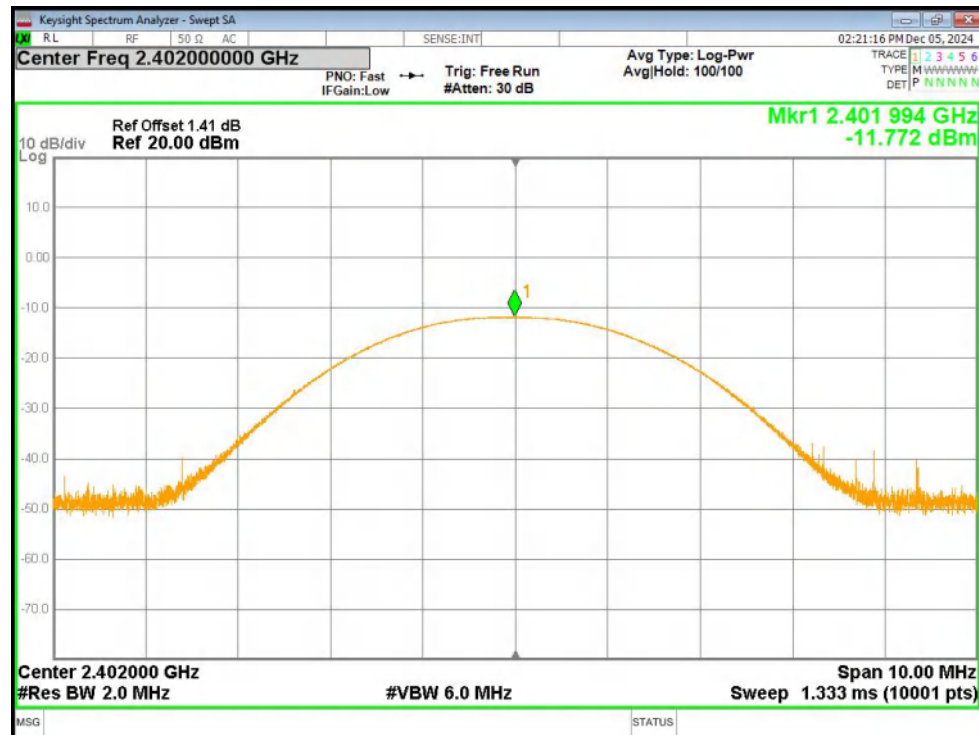
MSG STATUS

2.Maximum Peak Conducted Output Power

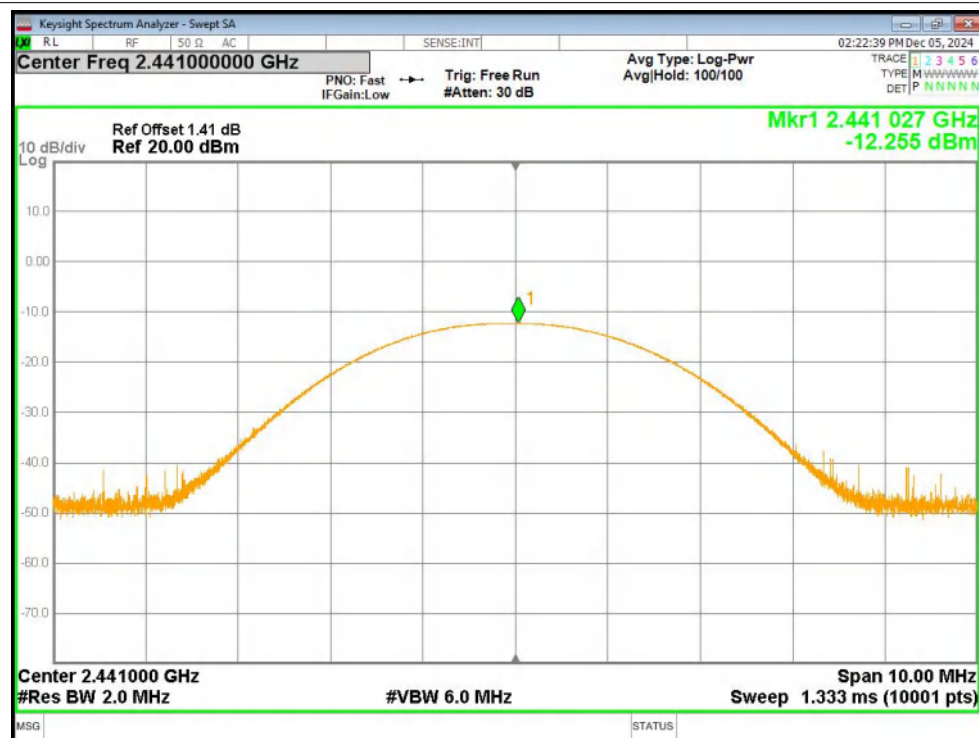
Mode	Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Verdict
1-DH5	2402	-11.77	21	Pass
1-DH5	2441	-12.26	21	Pass
1-DH5	2480	-13.94	21	Pass
2-DH5	2402	-10.04	21	Pass
2-DH5	2441	-10.27	21	Pass
2-DH5	2480	-11.93	21	Pass
3-DH5	2402	-9.46	21	Pass
3-DH5	2441	-9.72	21	Pass
3-DH5	2480	-11.47	21	Pass

Test Graphs

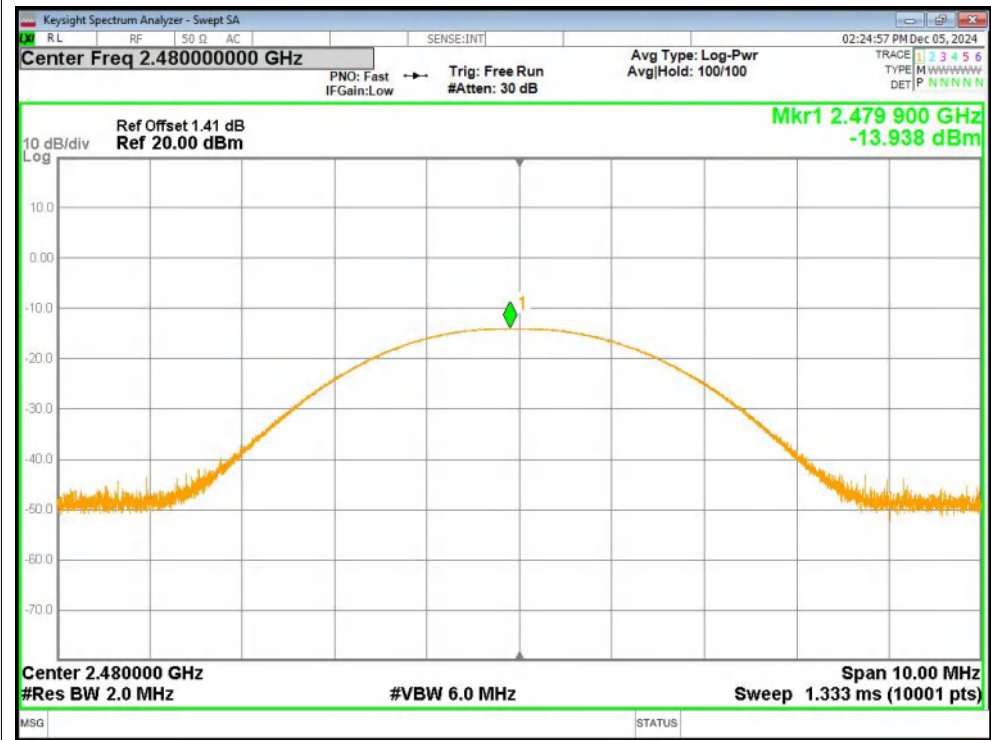
Peak Power NVNT 1-DH5 2402MHz Ant1



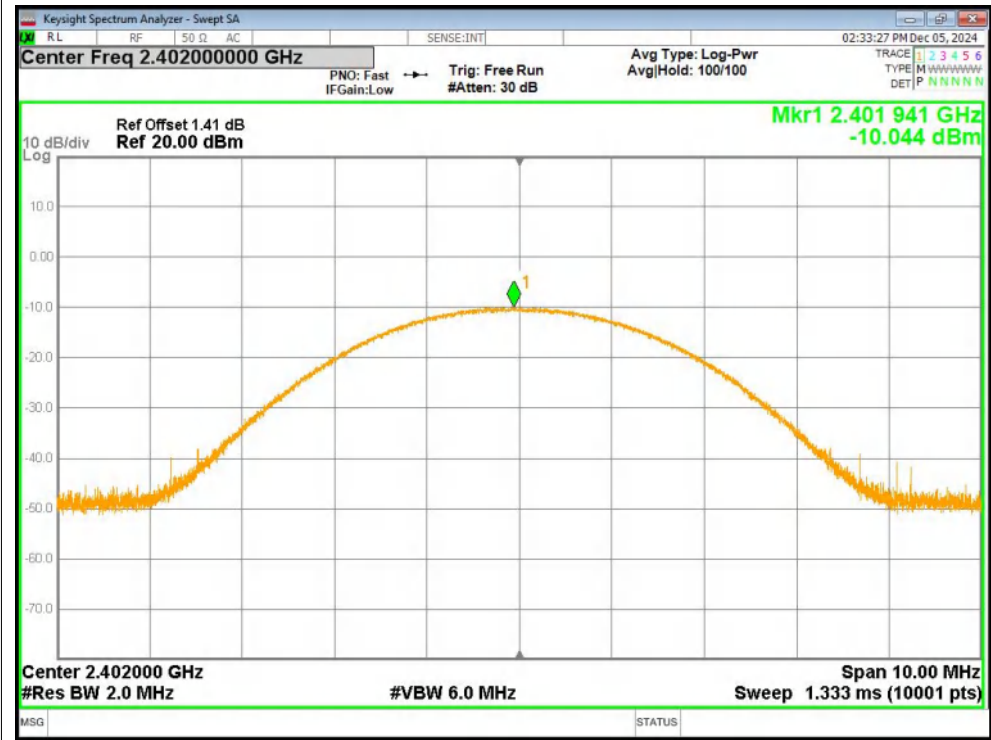
Peak Power NVNT 1-DH5 2441MHz Ant1



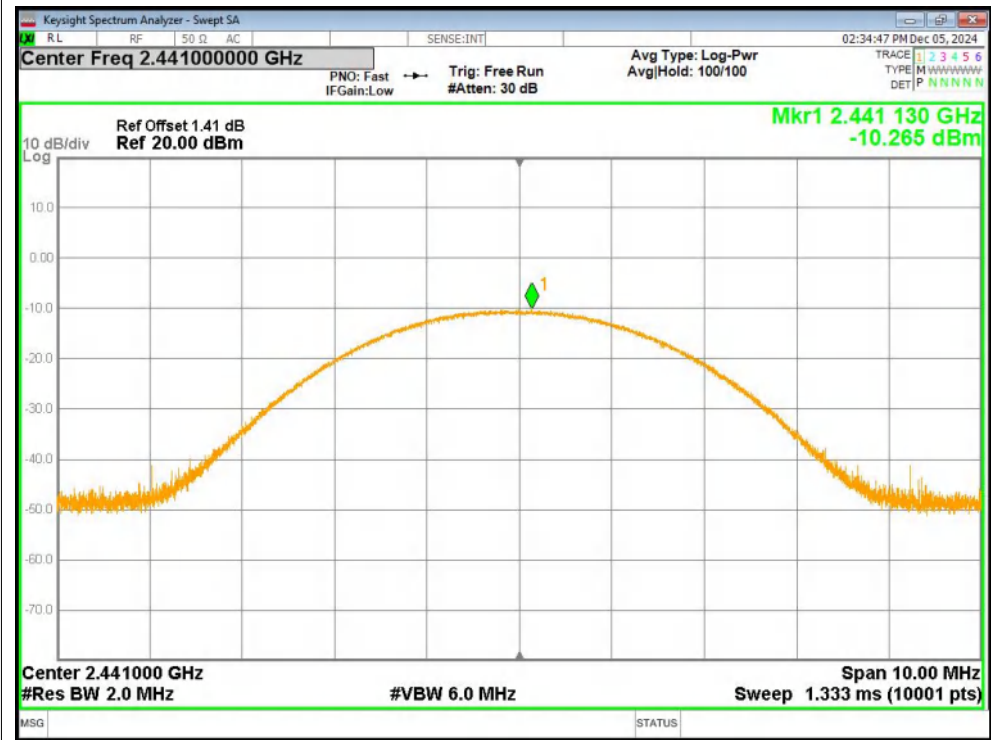
Peak Power NVNT 1-DH5 2480MHz Ant1



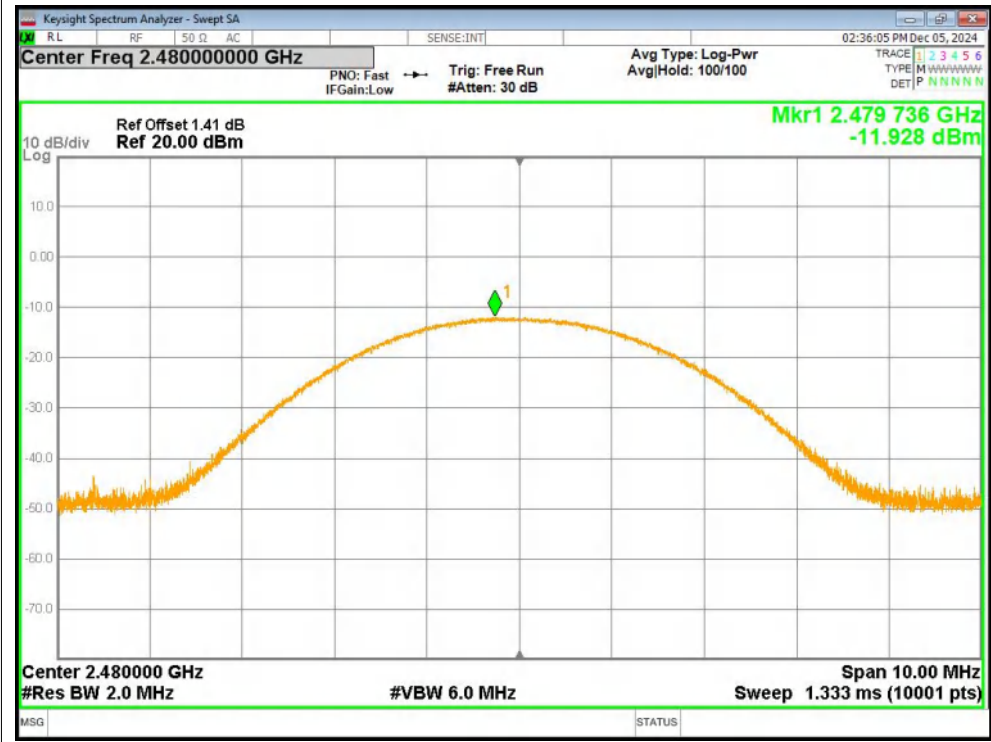
Peak Power NVNT 2-DH5 2402MHz Ant1



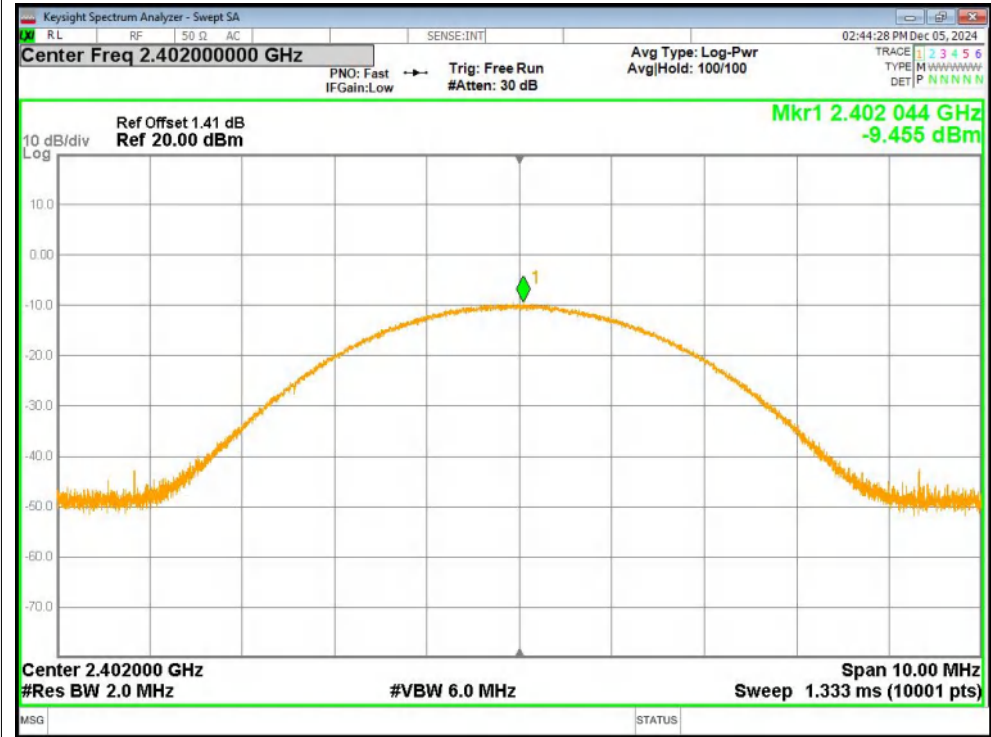
Peak Power NVNT 2-DH5 2441MHz Ant1



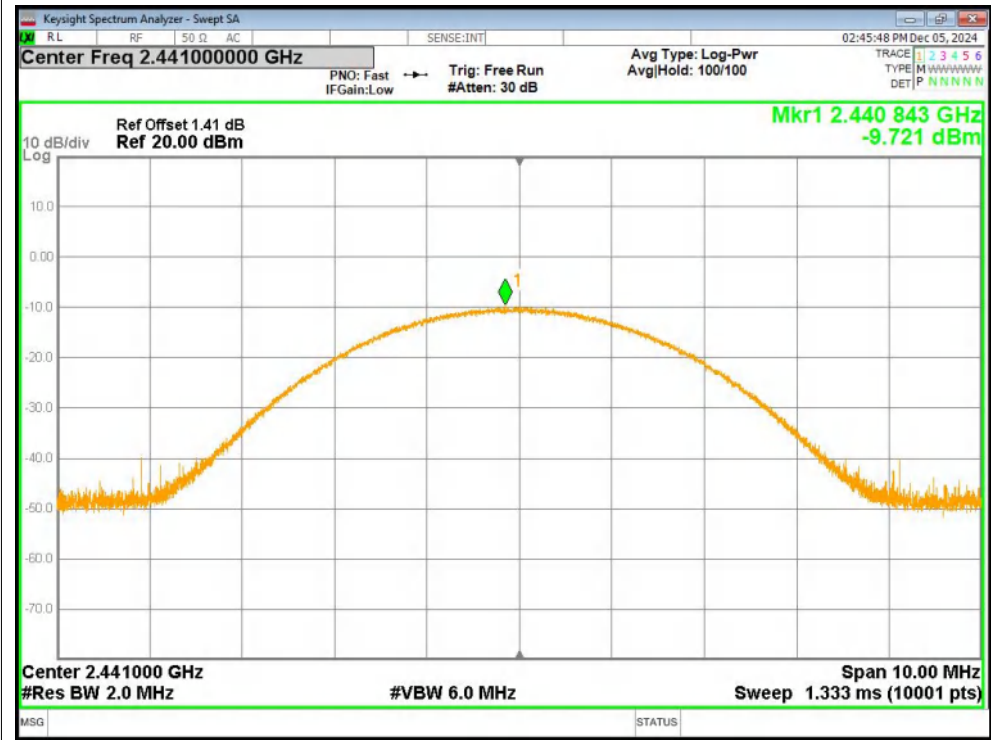
Peak Power NVNT 2-DH5 2480MHz Ant1



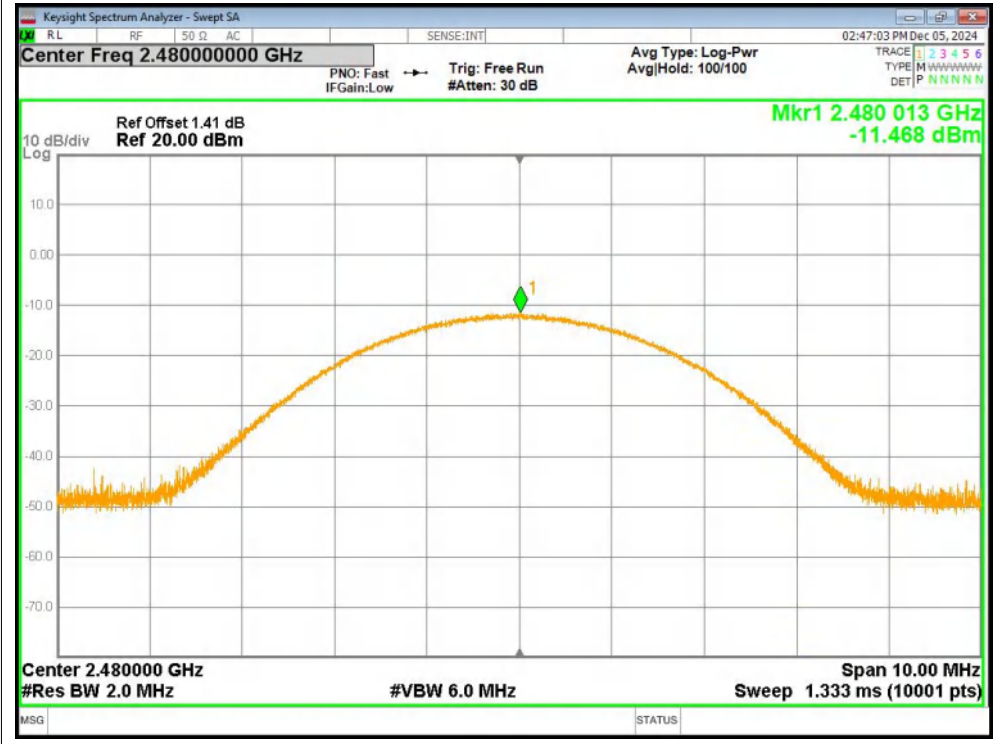
Peak Power NVNT 3-DH5 2402MHz Ant1



Peak Power NVNT 3-DH5 2441MHz Ant1



Peak Power NVNT 3-DH5 2480MHz Ant1

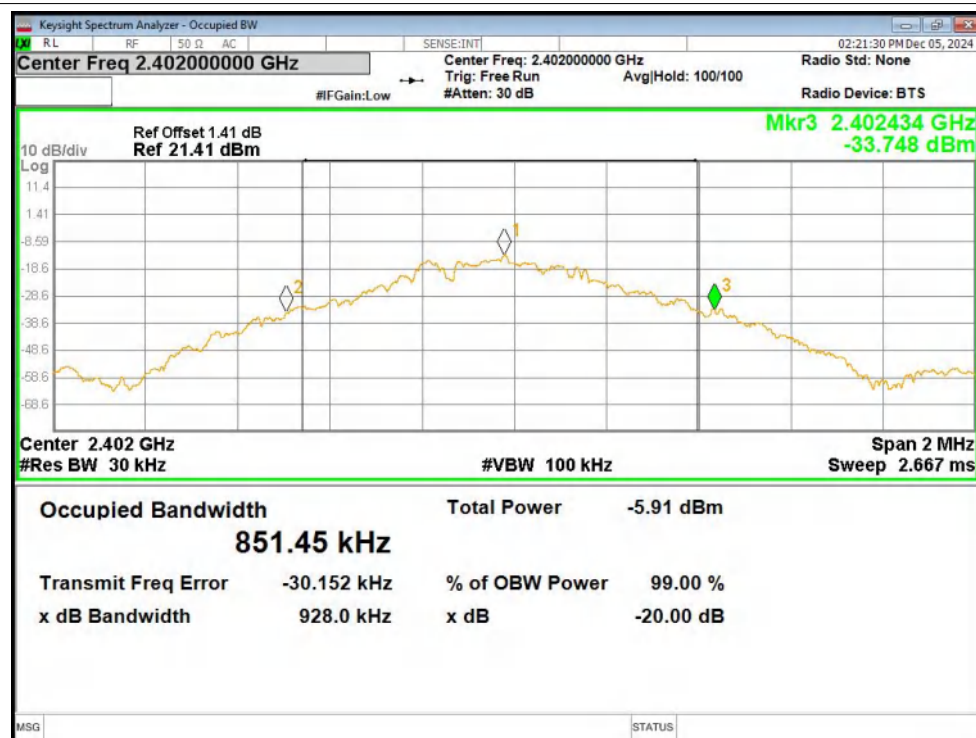


3.-20dB Bandwidth

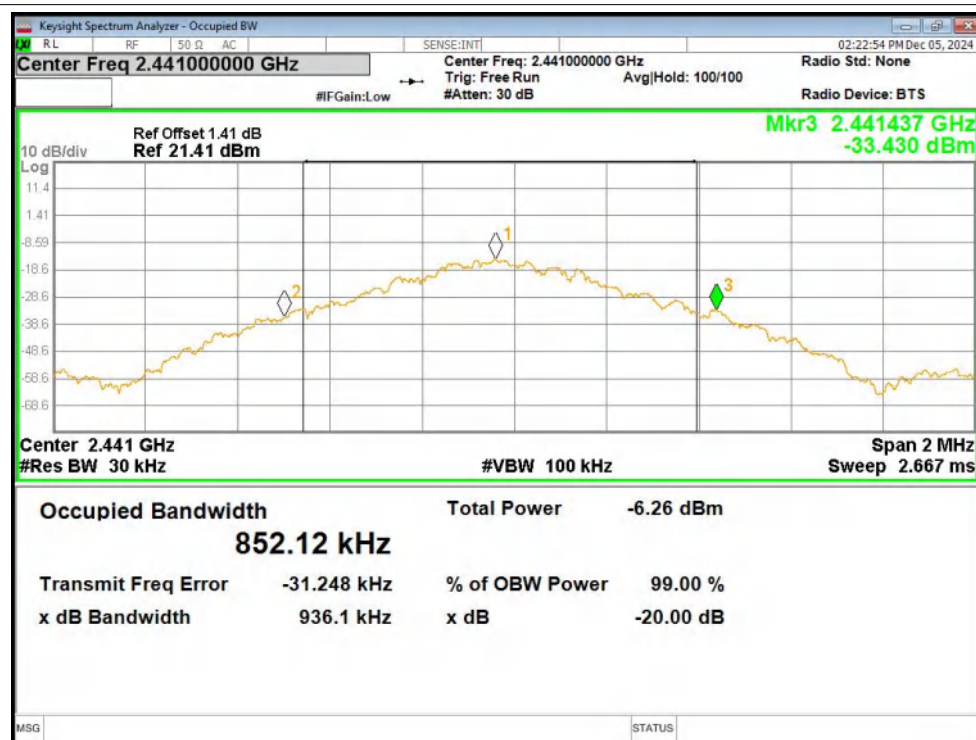
Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
1-DH5	2402	0.928	Pass
1-DH5	2441	0.936	Pass
1-DH5	2480	0.942	Pass
2-DH5	2402	1.263	Pass
2-DH5	2441	1.258	Pass
2-DH5	2480	1.275	Pass
3-DH5	2402	1.286	Pass
3-DH5	2441	1.302	Pass
3-DH5	2480	1.287	Pass

Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



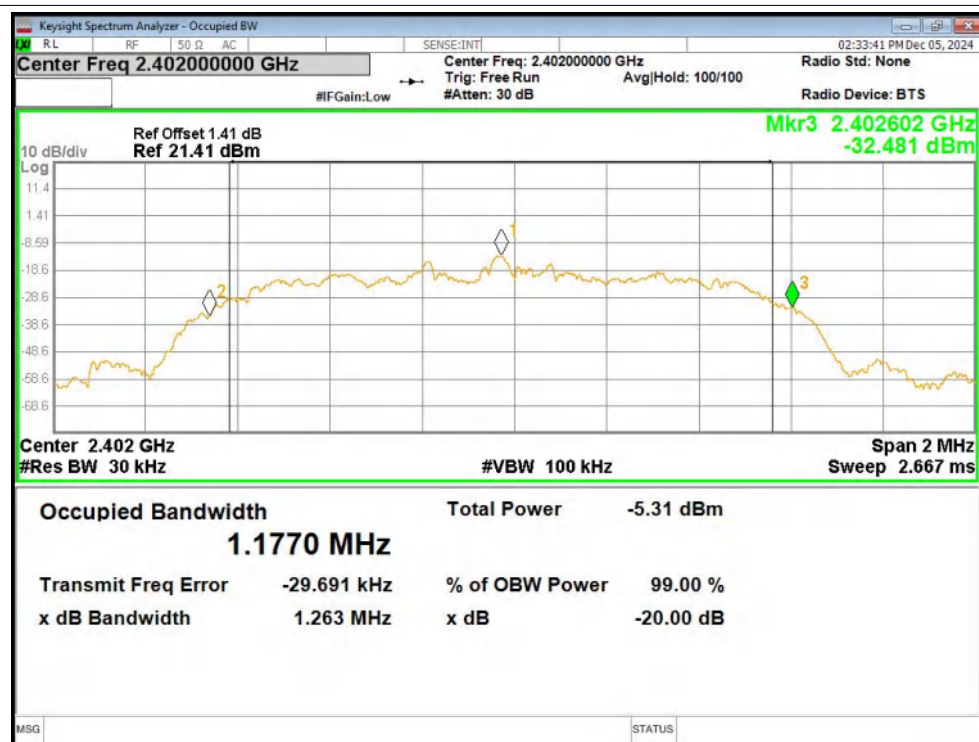
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



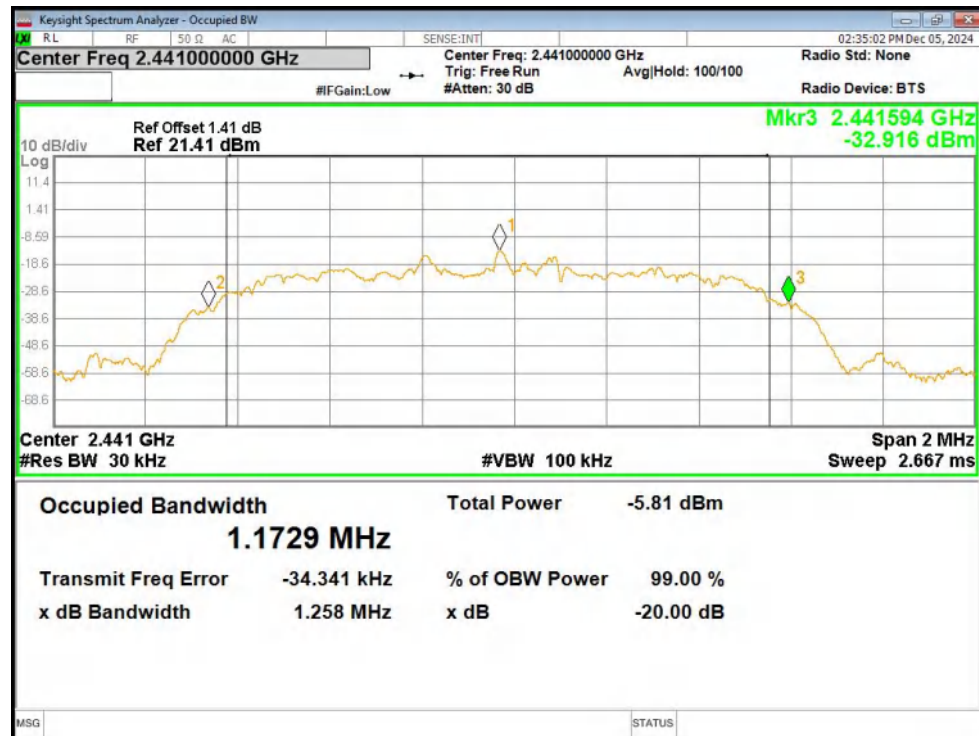
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



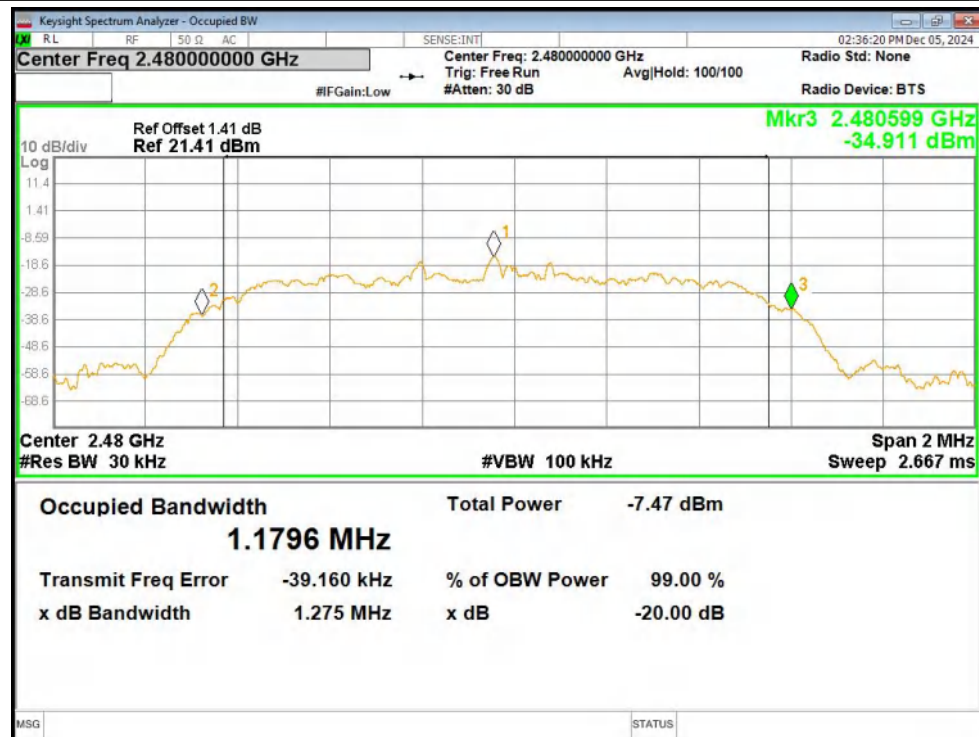
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



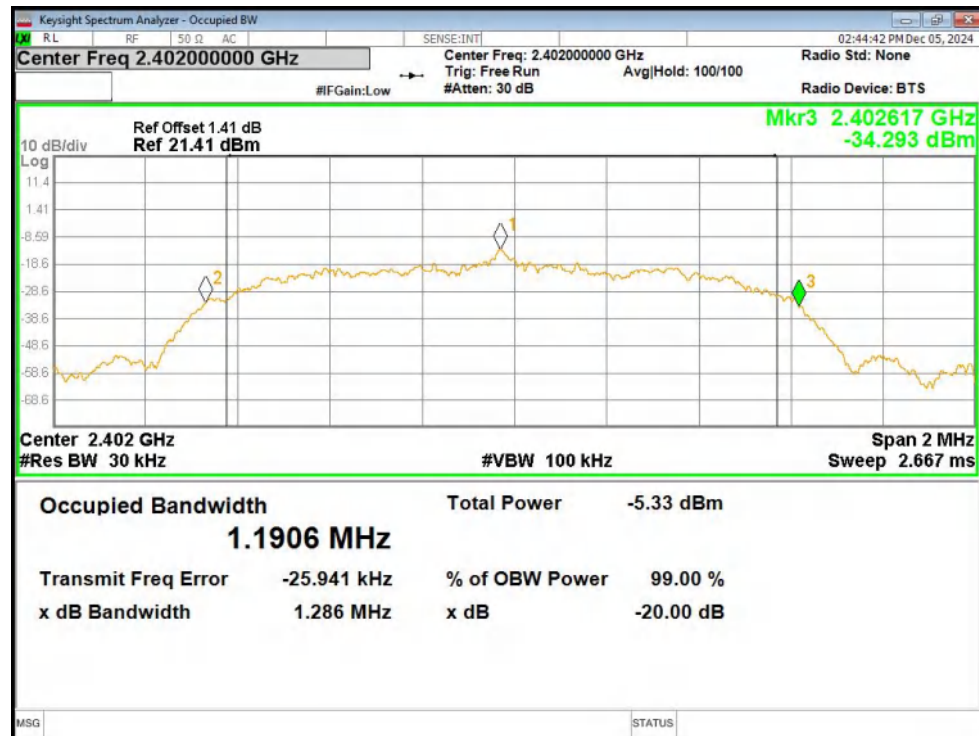
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



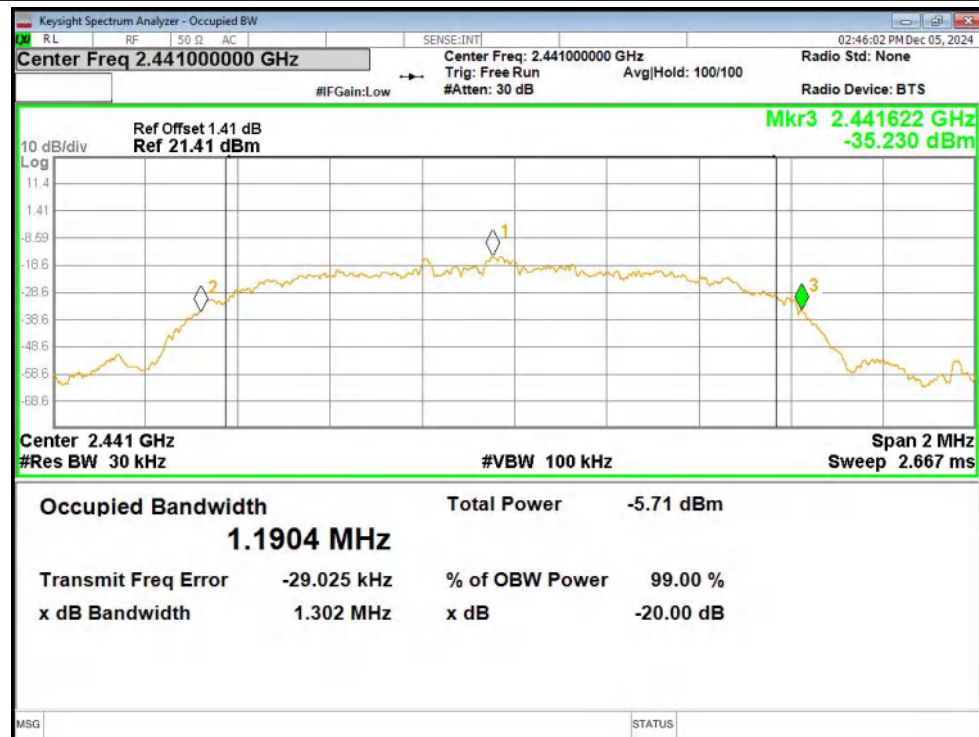
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



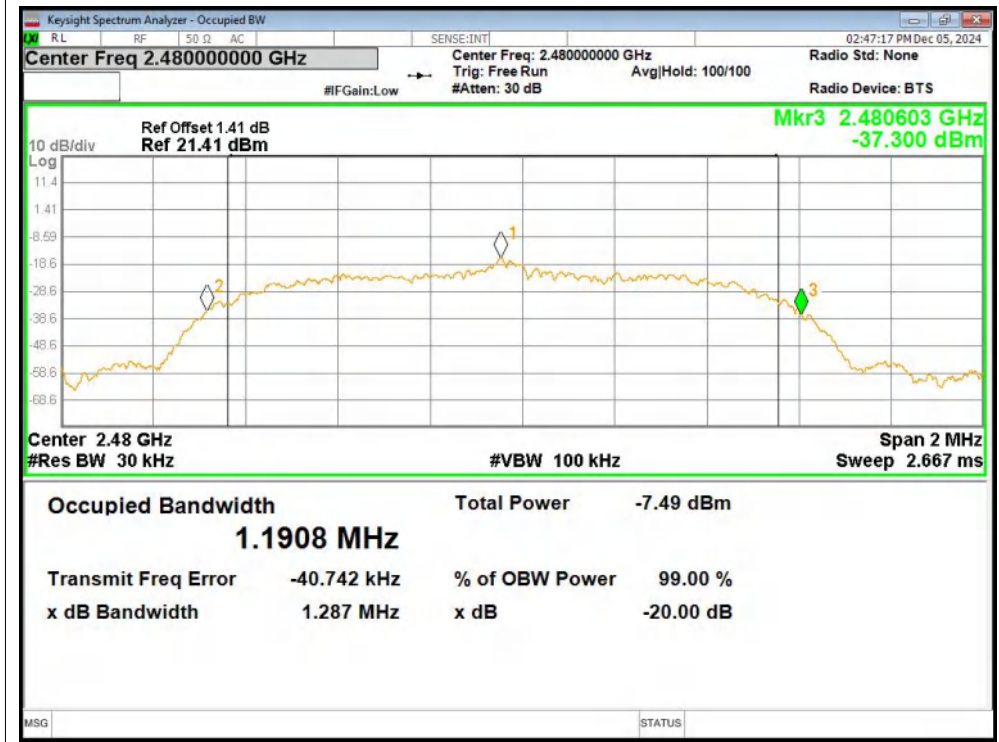
-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1

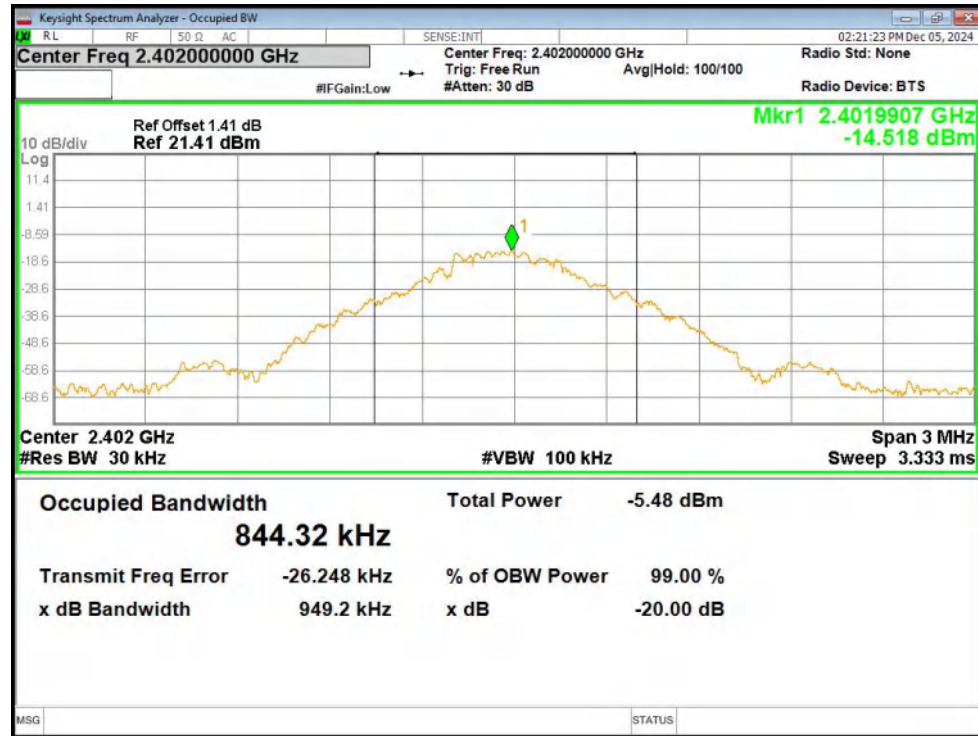


4.Occupied Channel Bandwidth

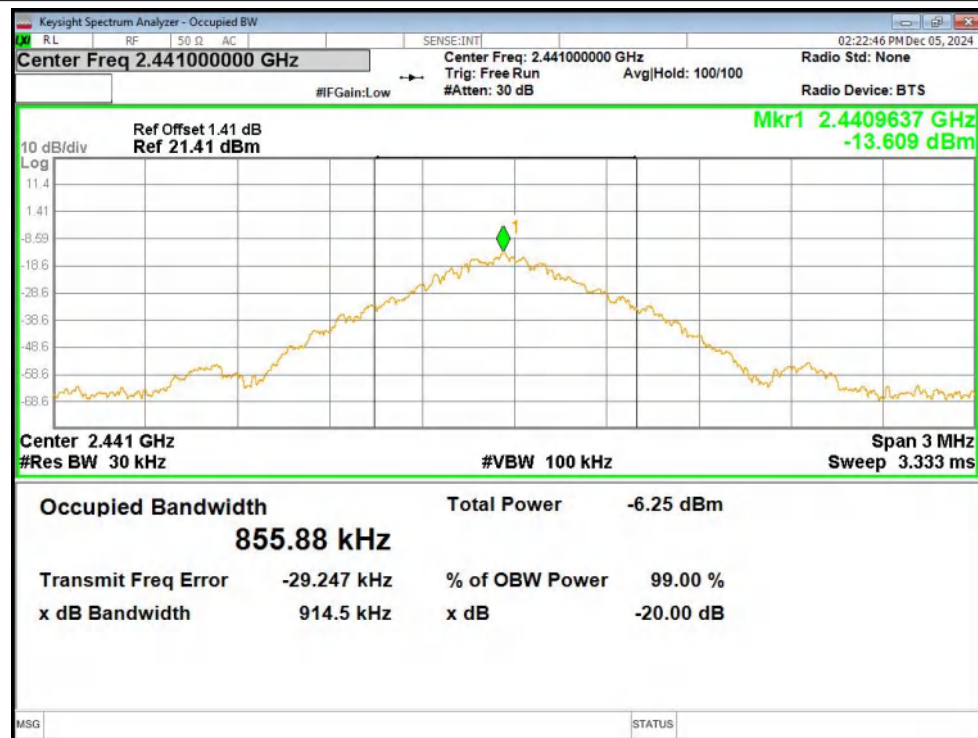
Mode	Frequency (MHz)	99% OBW (MHz)
1-DH5	2402	0.844
1-DH5	2441	0.856
1-DH5	2480	0.851
2-DH5	2402	1.192
2-DH5	2441	1.179
2-DH5	2480	1.177
3-DH5	2402	1.186
3-DH5	2441	1.174
3-DH5	2480	1.195

Test Graphs

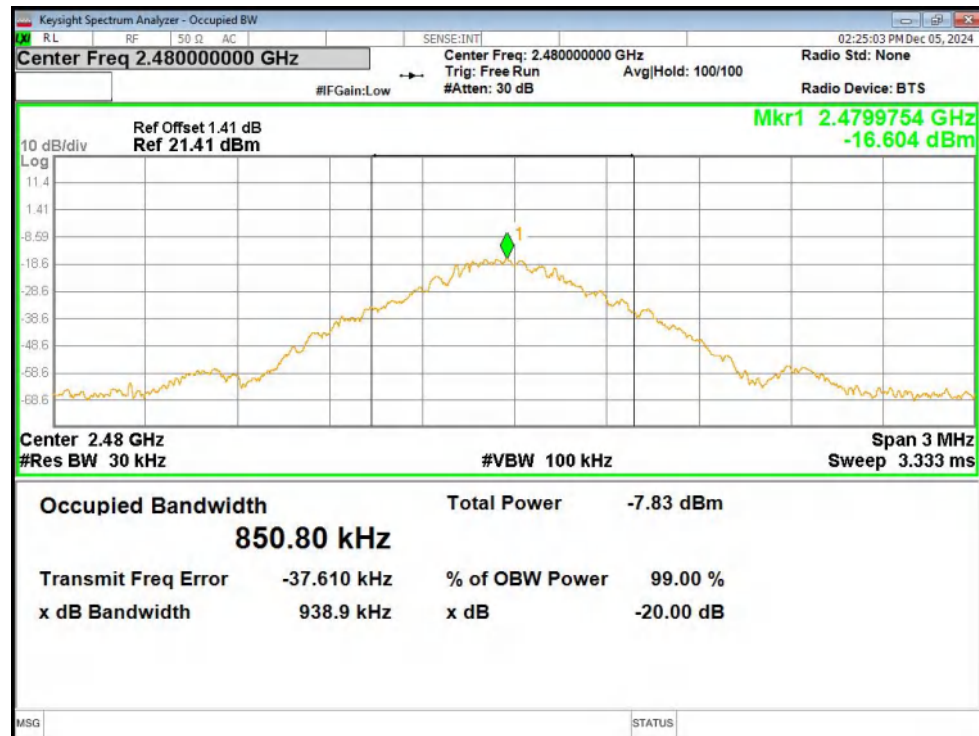
OBW NVNT 1-DH5 2402MHz Ant1



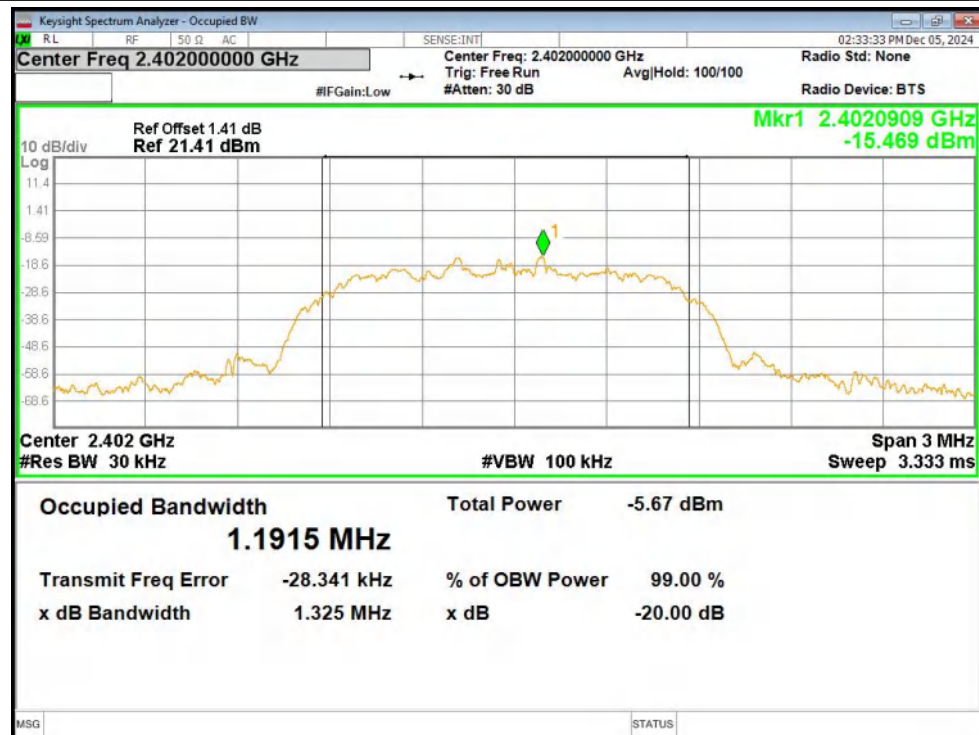
OBW NVNT 1-DH5 2441MHz Ant1



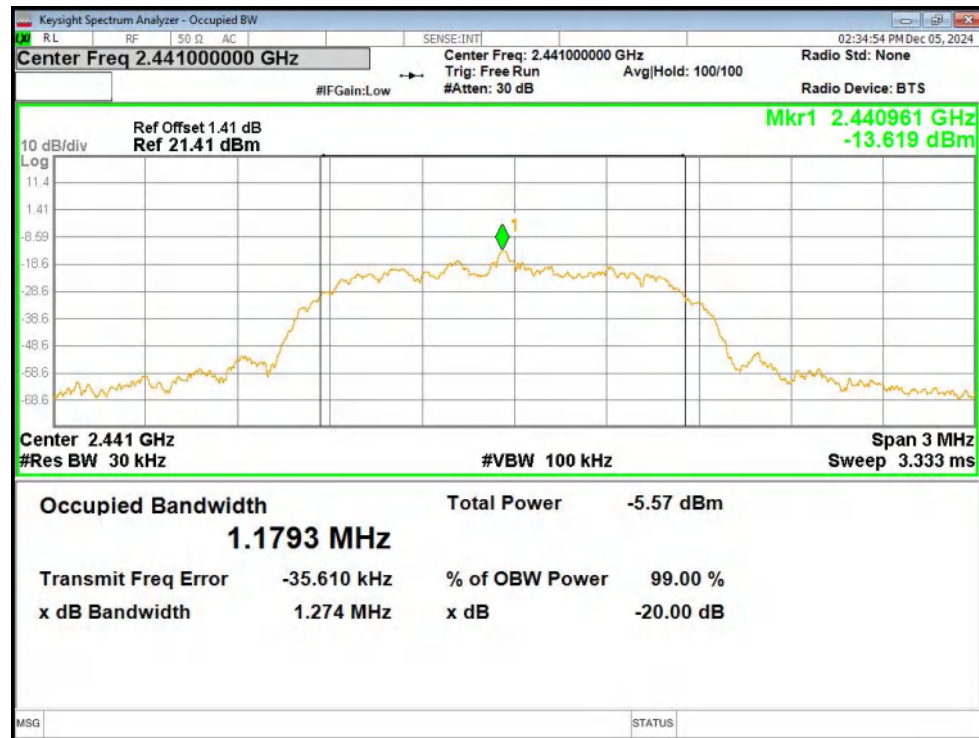
OBW NVNT 1-DH5 2480MHz Ant1



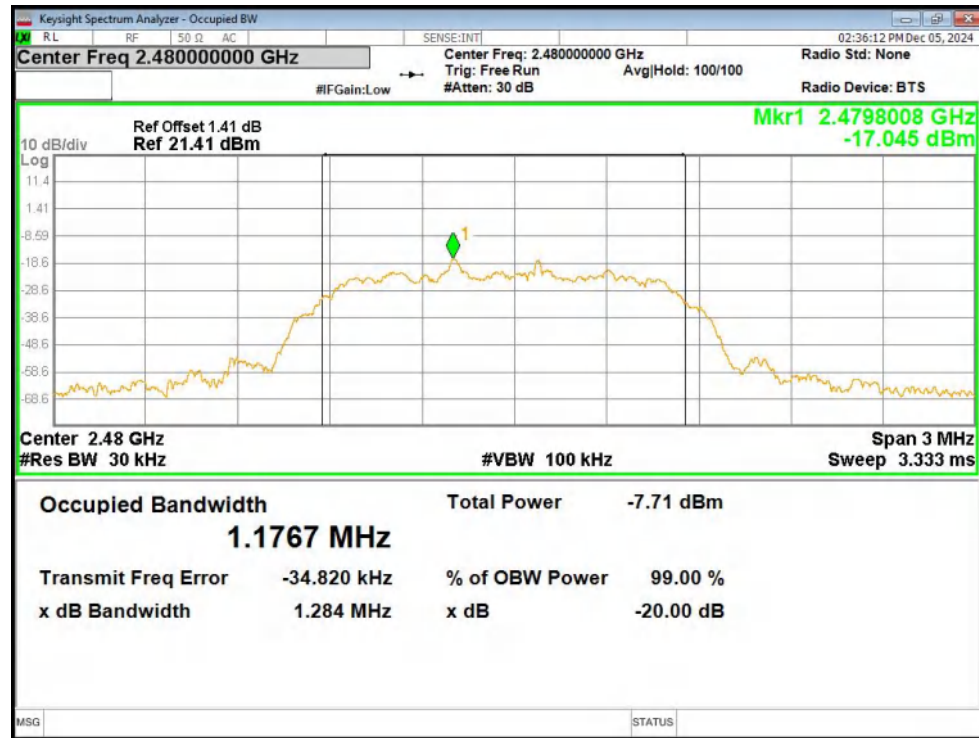
OBW NVNT 2-DH5 2402MHz Ant1



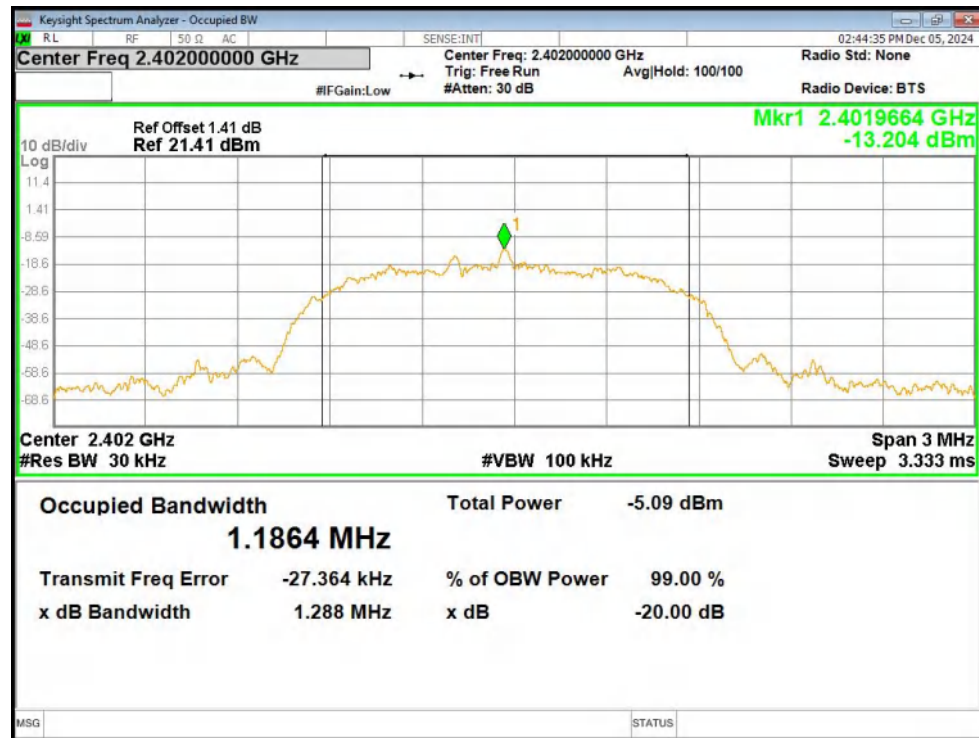
OBW NVNT 2-DH5 2441MHz Ant1



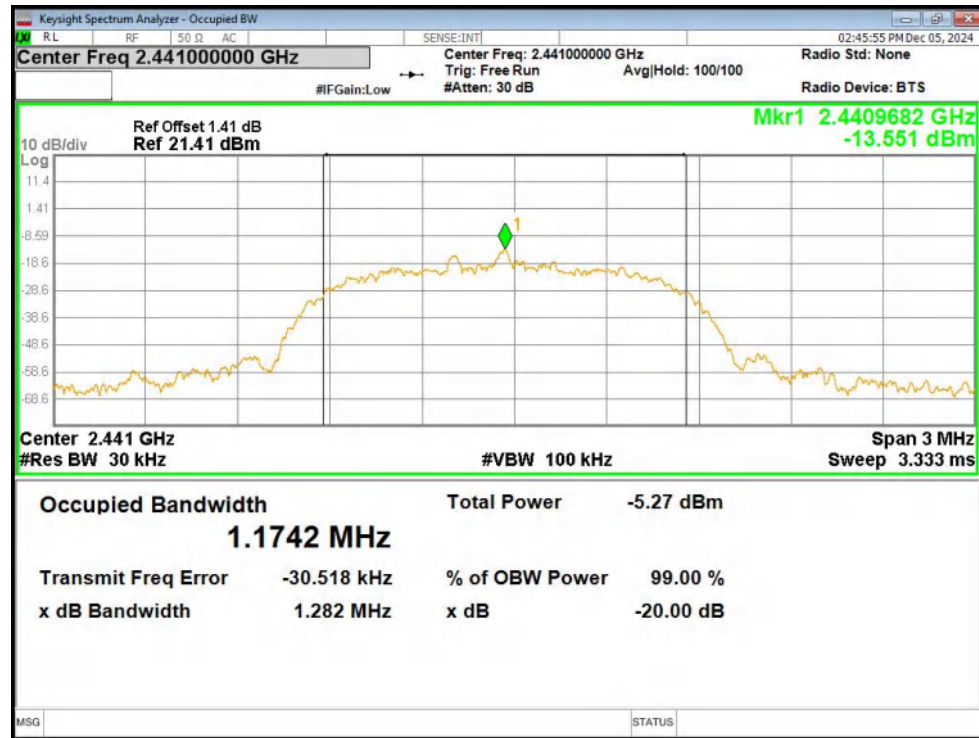
OBW NVNT 2-DH5 2480MHz Ant1



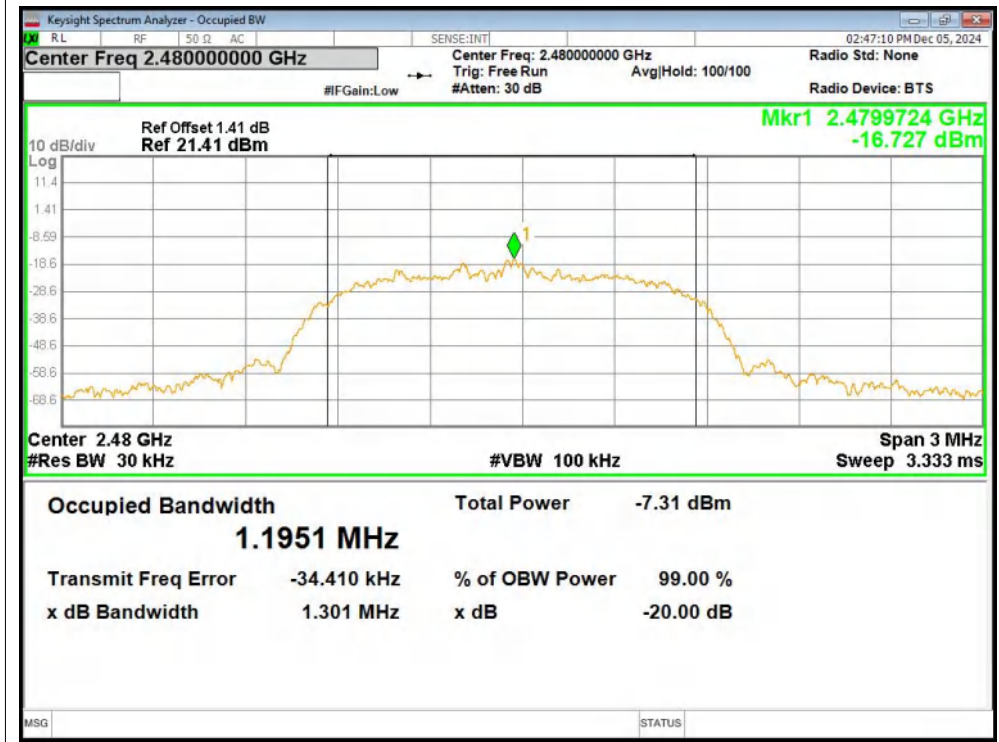
OBW NVNT 3-DH5 2402MHz Ant1



OBW NVNT 3-DH5 2441MHz Ant1



OBW NVNT 3-DH5 2480MHz Ant1



5.Carrier Frequencies Separation

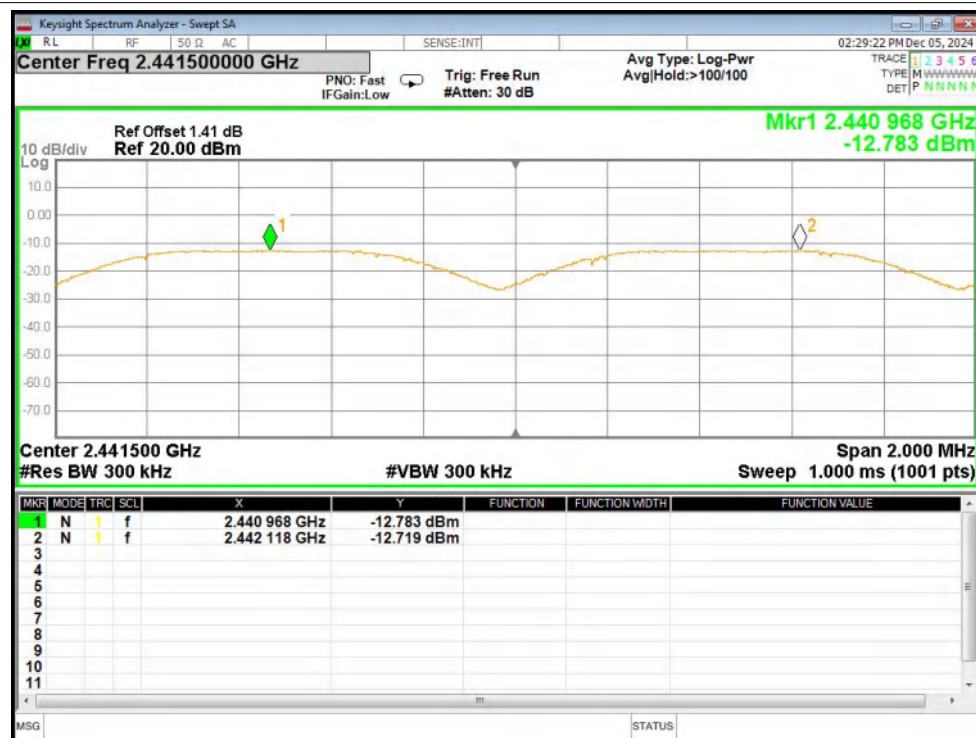
Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
1-DH5	2401.808	2403.132	1.324	0.619	Pass
1-DH5	2440.968	2442.118	1.15	0.624	Pass
1-DH5	2478.792	2480.128	1.336	0.628	Pass
2-DH5	2402.116	2403.124	1.008	0.842	Pass
2-DH5	2440.814	2442.1	1.286	0.839	Pass
2-DH5	2478.798	2479.8	1.002	0.85	Pass
3-DH5	2401.928	2402.94	1.012	0.857	Pass
3-DH5	2440.814	2441.966	1.152	0.868	Pass
3-DH5	2478.974	2479.966	0.992	0.858	Pass

Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 1-DH5 2441MHz Ant1



CFS NVNT 1-DH5 2480MHz Ant1



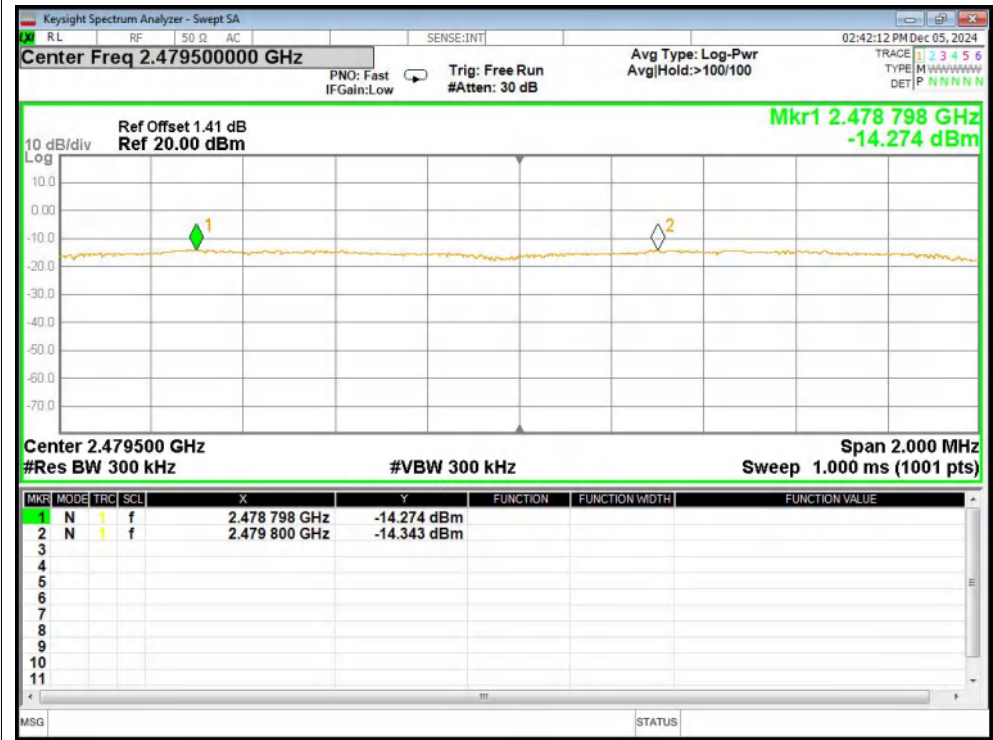
CFS NVNT 2-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2441MHz Ant1



CFS NVNT 2-DH5 2480MHz Ant1



CFS NVNT 3-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2441MHz Ant1

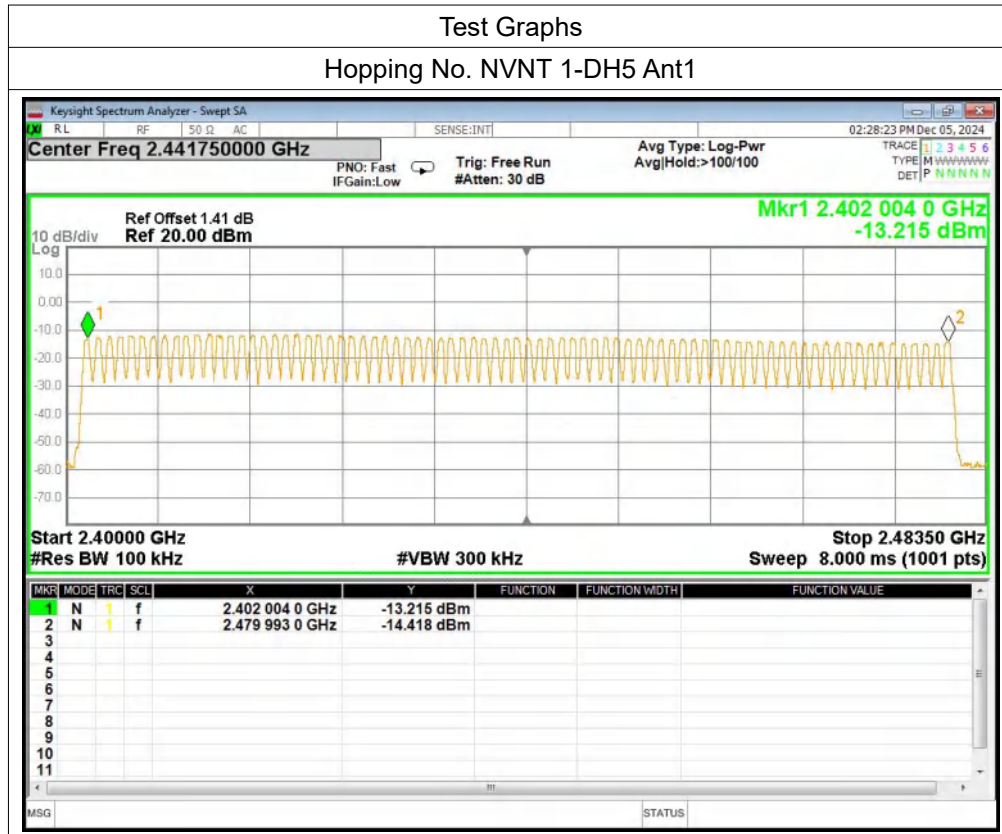


CFS NVNT 3-DH5 2480MHz Ant1



6.Number of Hopping Channel

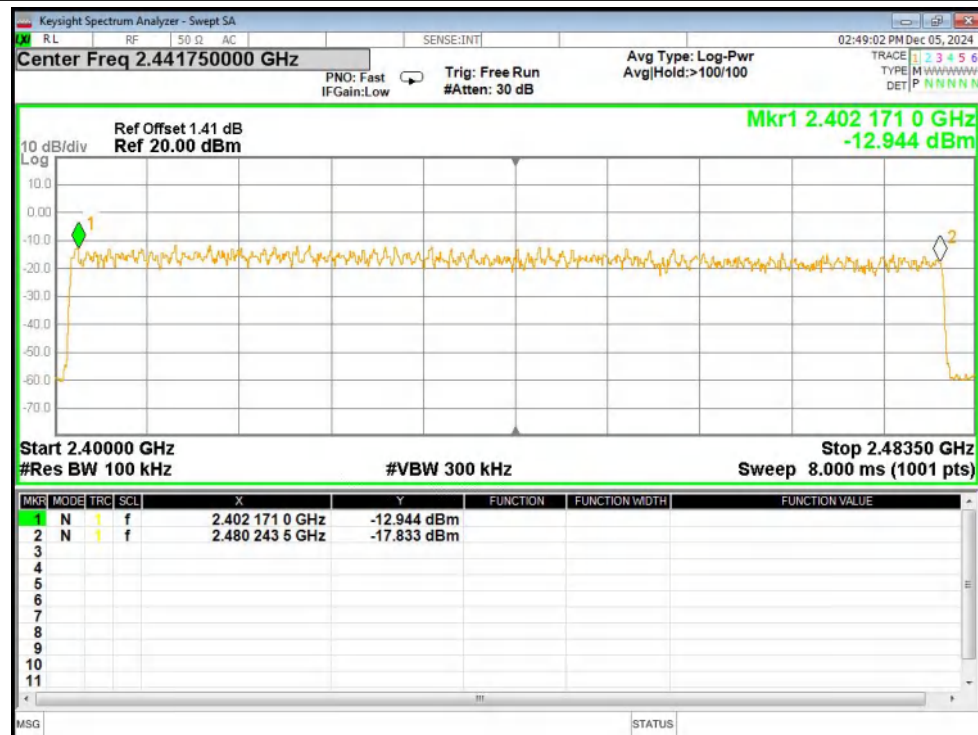
Mode	Hopping Number	Limit	Verdict
1-DH5	79	15	Pass
2-DH5	79	15	Pass
3-DH5	79	15	Pass



Hopping No. NVNT 2-DH5 Ant1



Hopping No. NVNT 3-DH5 Ant1

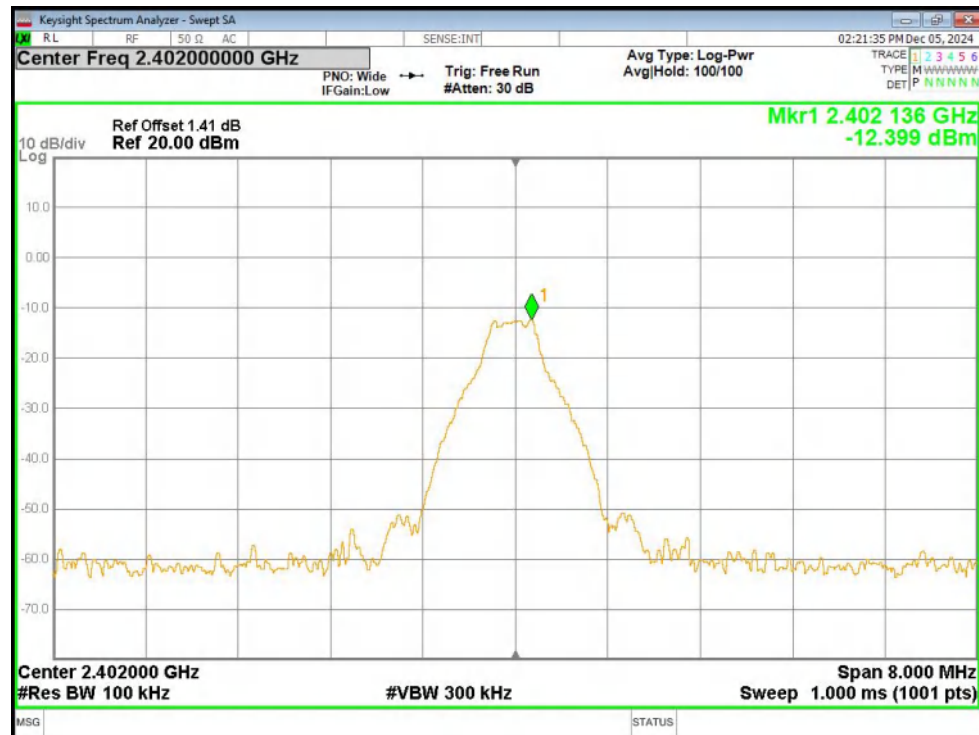


7.Band Edge

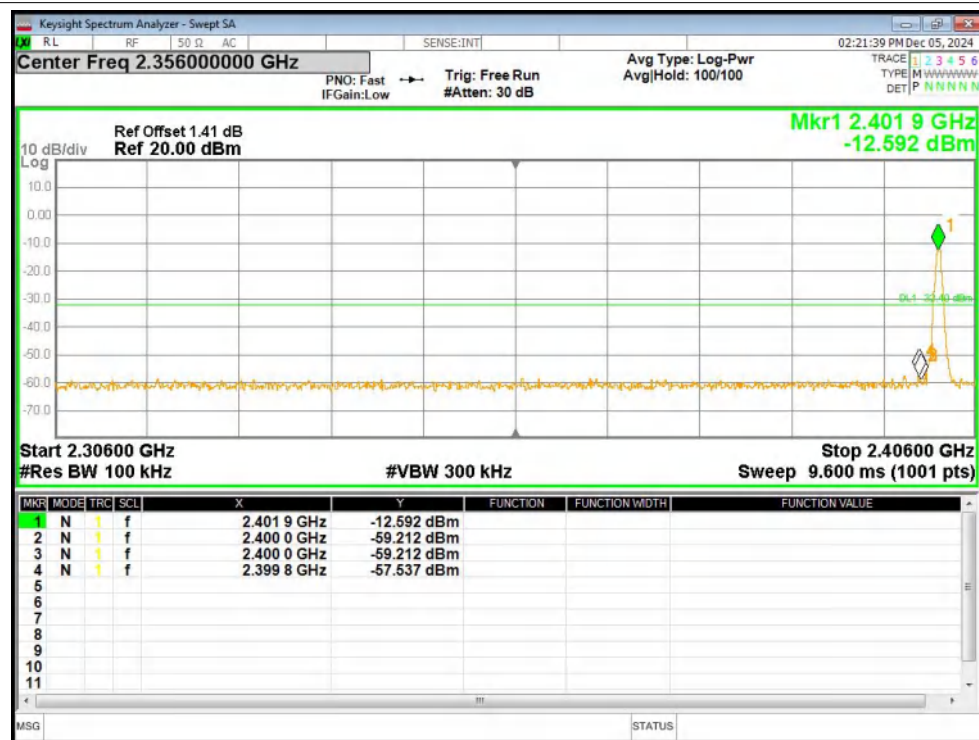
Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	No-Hopping	-45.13	-20	Pass
1-DH5	2480	No-Hopping	-43.7	-20	Pass
2-DH5	2402	No-Hopping	-45	-20	Pass
2-DH5	2480	No-Hopping	-43.13	-20	Pass
3-DH5	2402	No-Hopping	-44.58	-20	Pass
3-DH5	2480	No-Hopping	-43.68	-20	Pass

Test Graphs

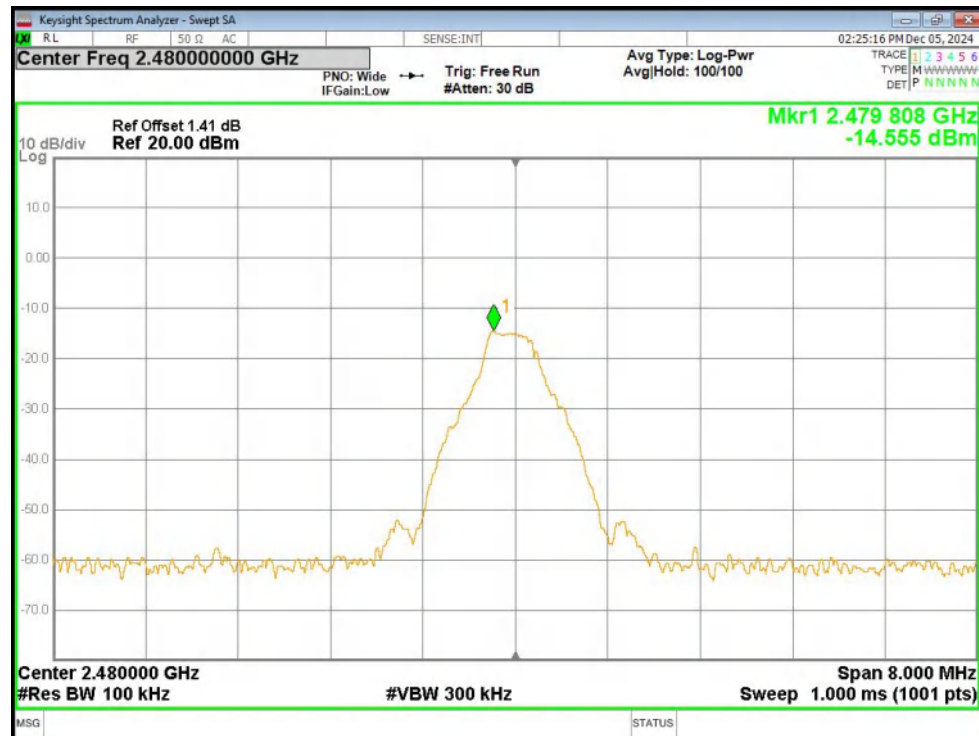
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



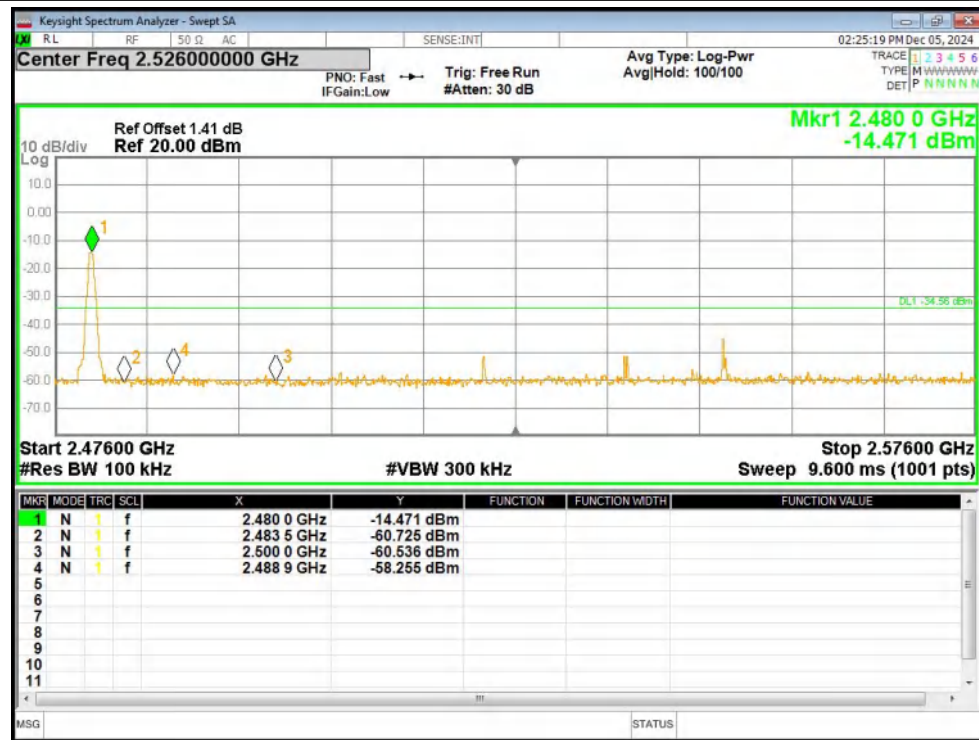
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



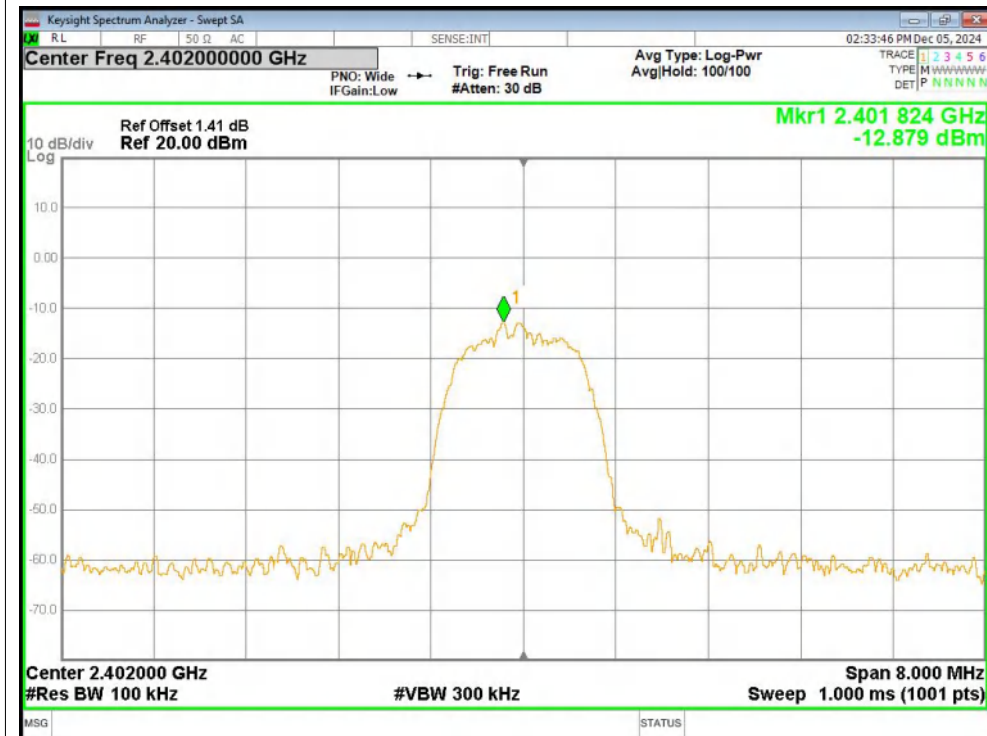
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



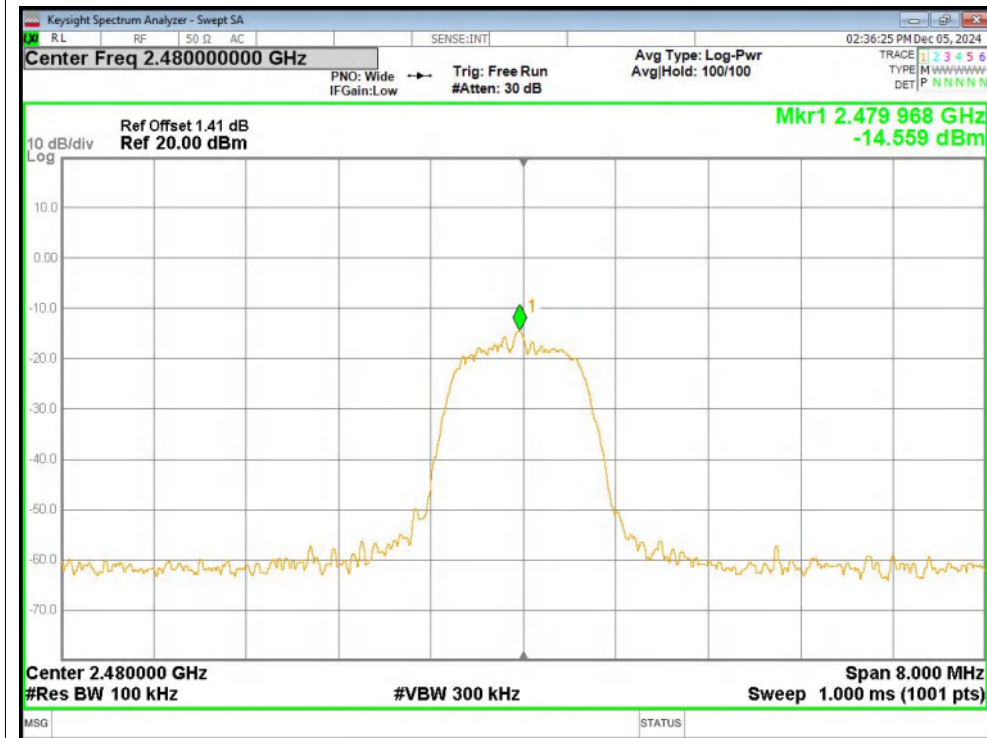
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



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



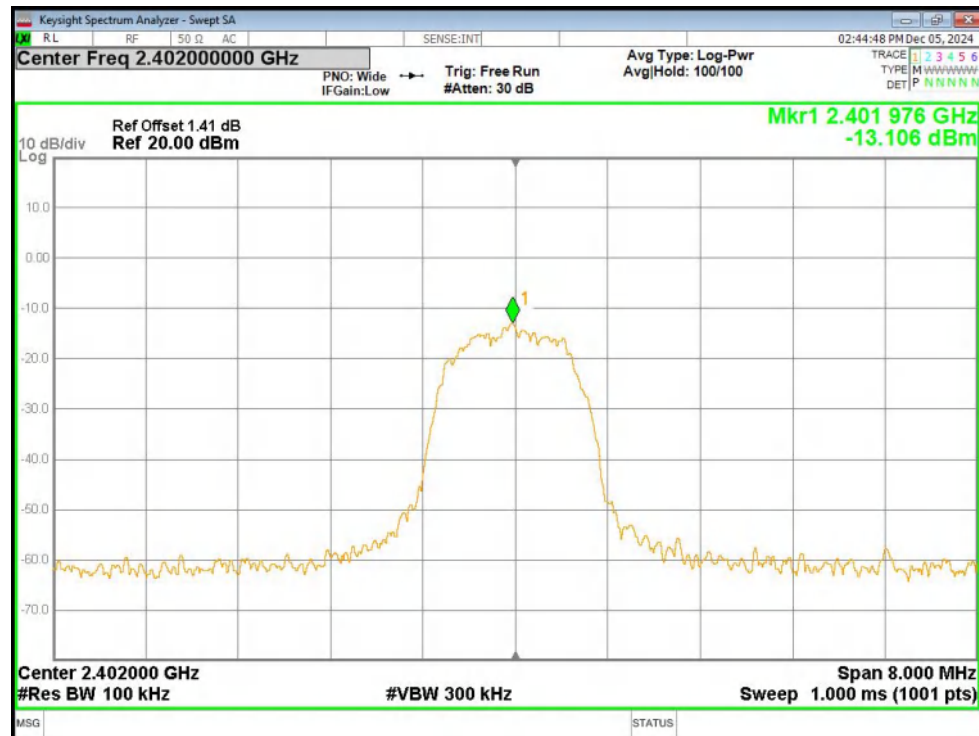
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



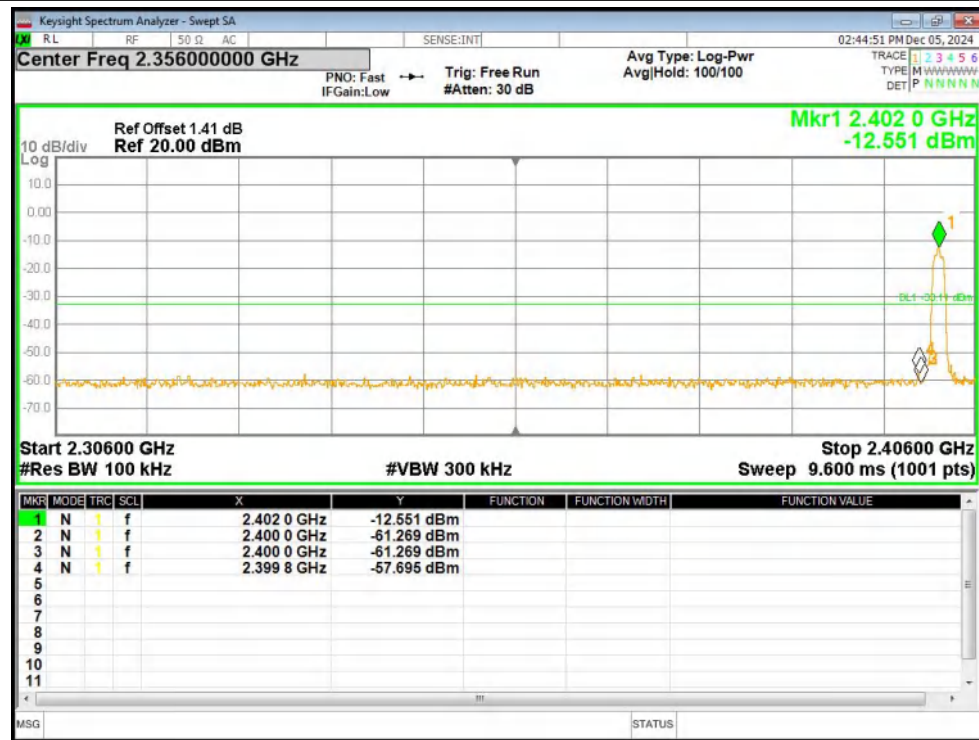
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



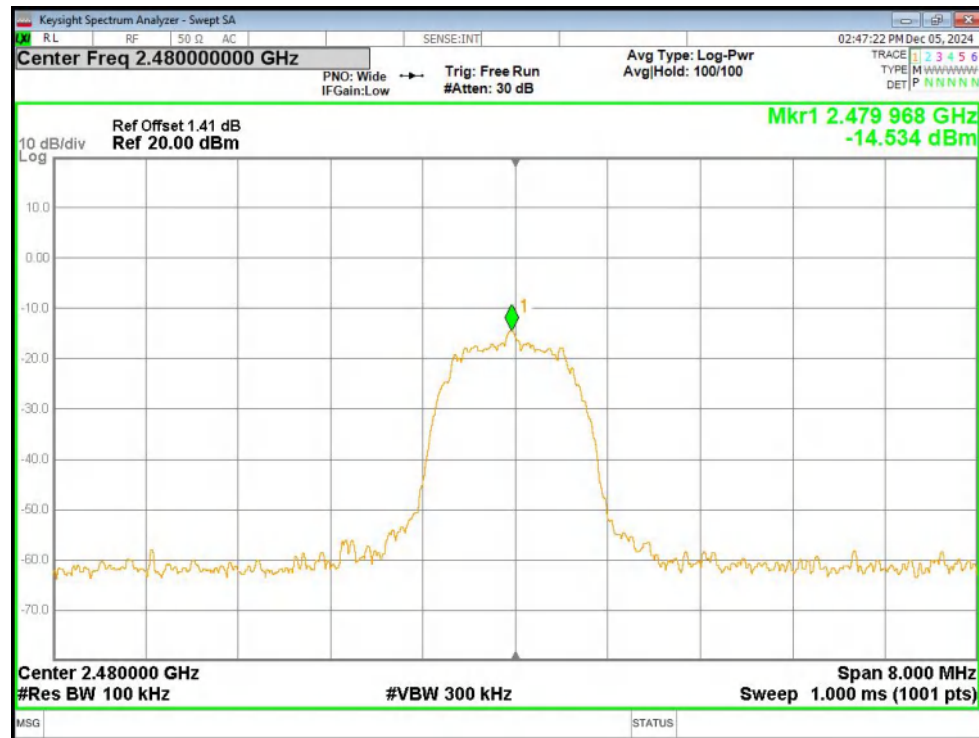
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



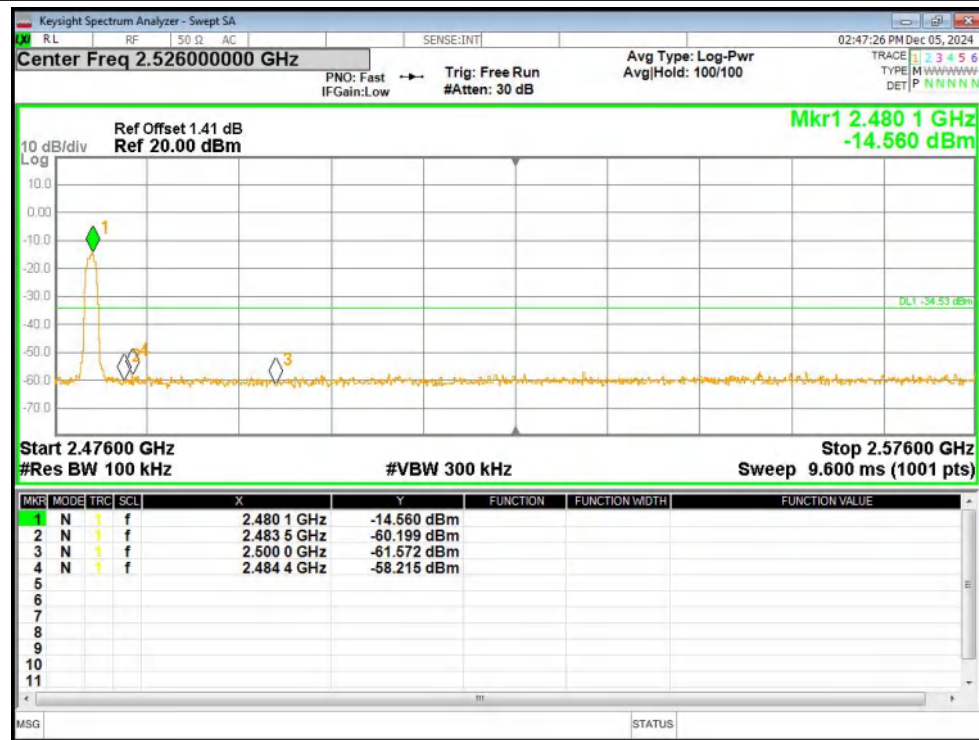
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



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



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



8.Band Edge(Hopping)

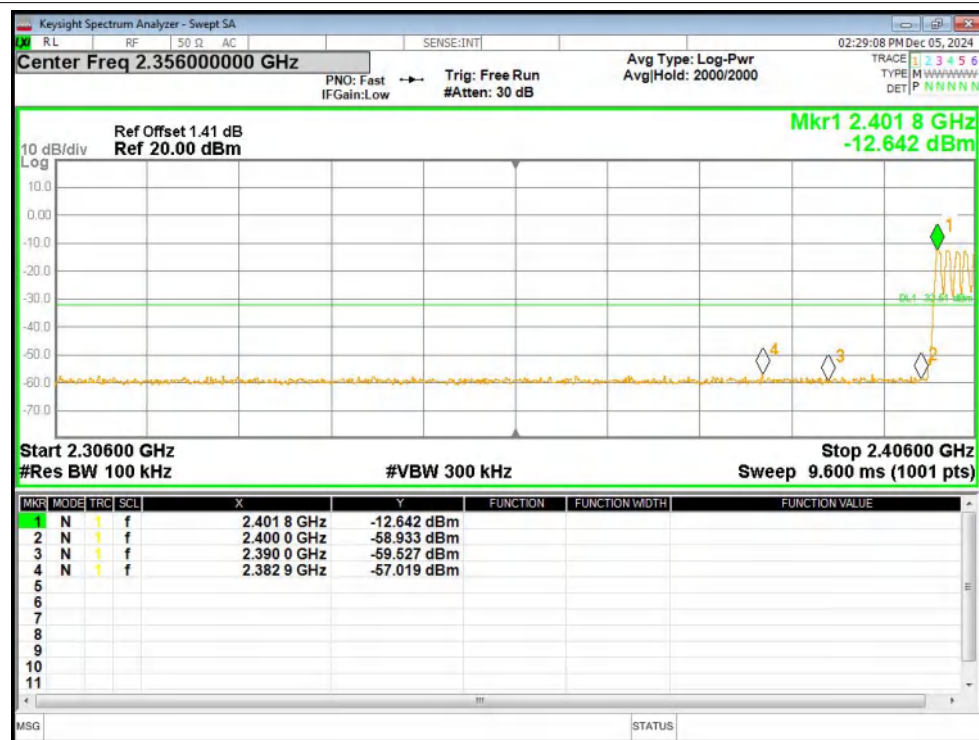
Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	Hopping	-44.5	-20	Pass
1-DH5	2480	Hopping	-42.51	-20	Pass
2-DH5	2402	Hopping	-44.96	-20	Pass
2-DH5	2480	Hopping	-42.56	-20	Pass
3-DH5	2402	Hopping	-43.71	-20	Pass
3-DH5	2480	Hopping	-42.85	-20	Pass

Test Graphs

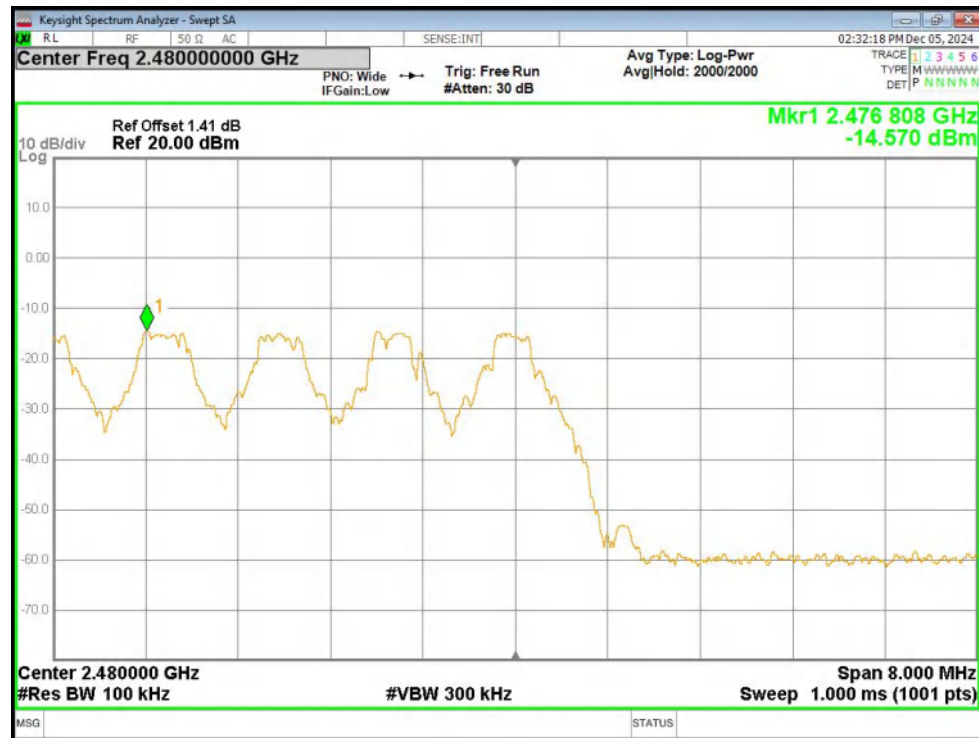
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



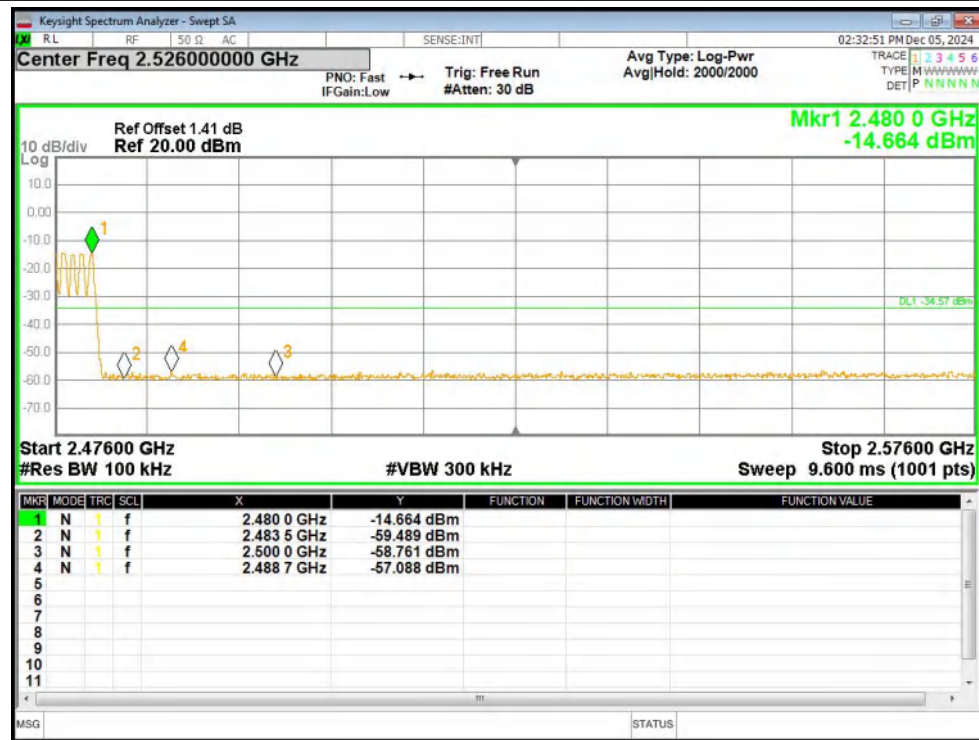
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



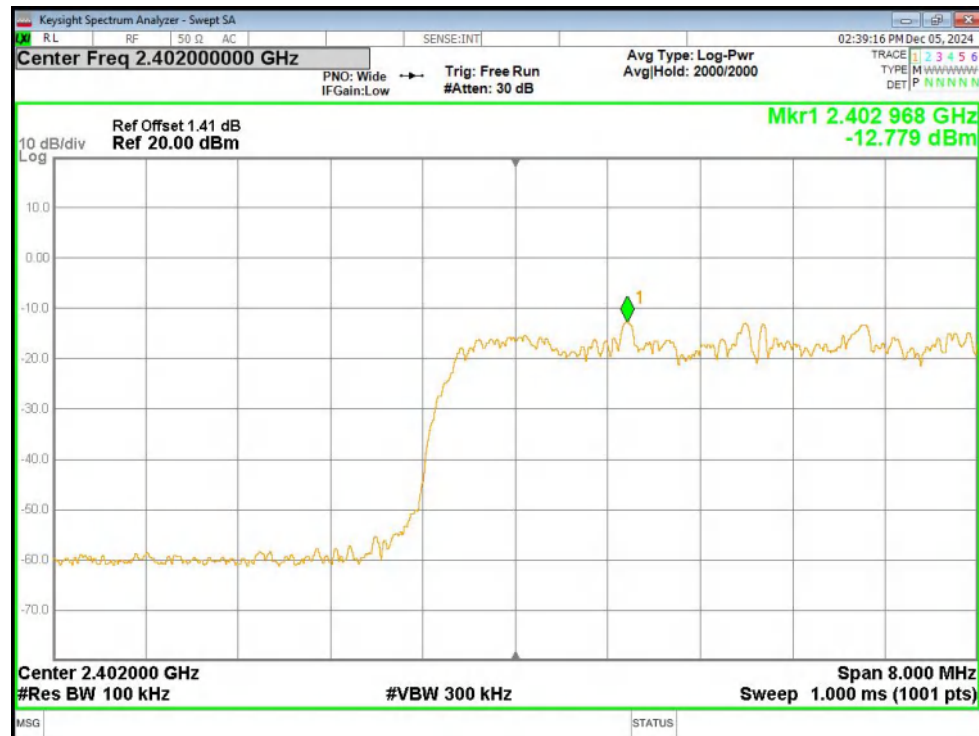
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



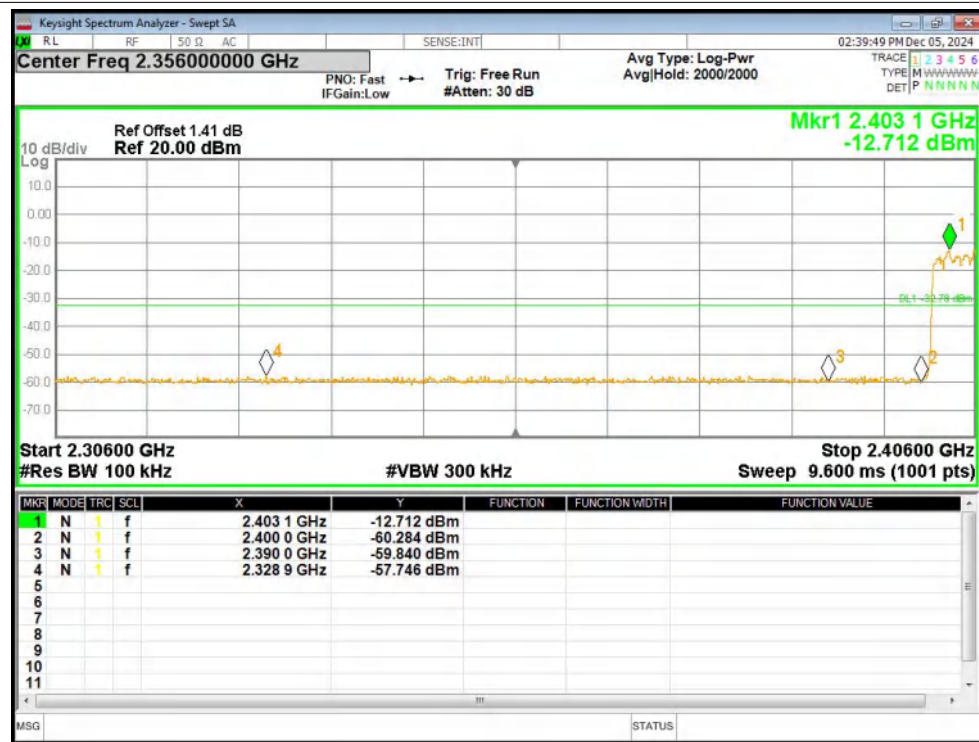
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



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



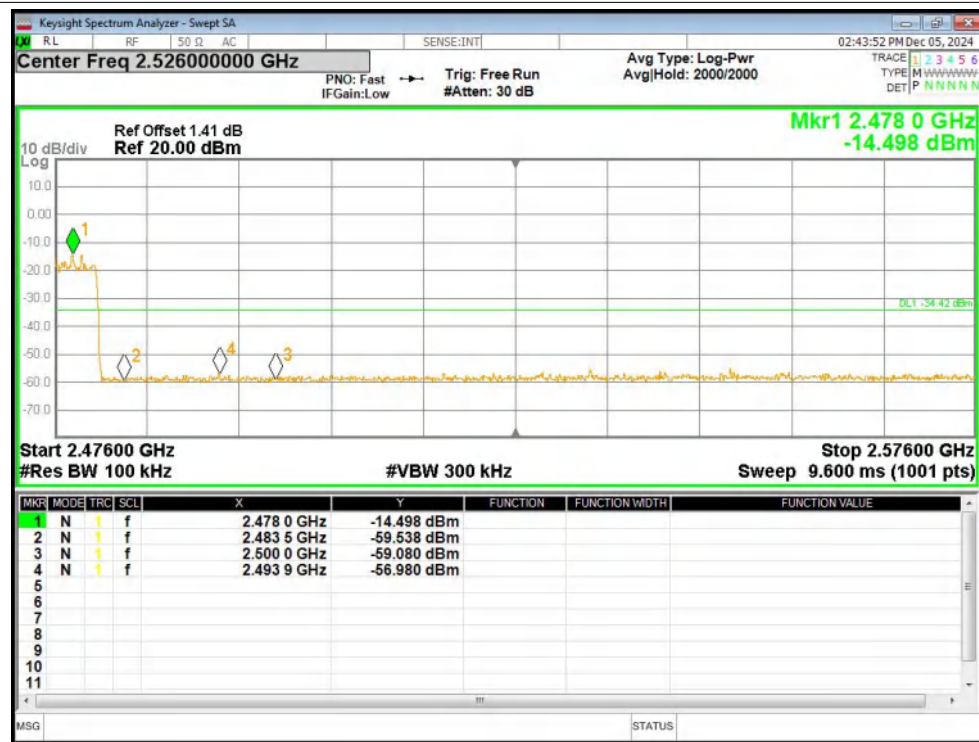
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



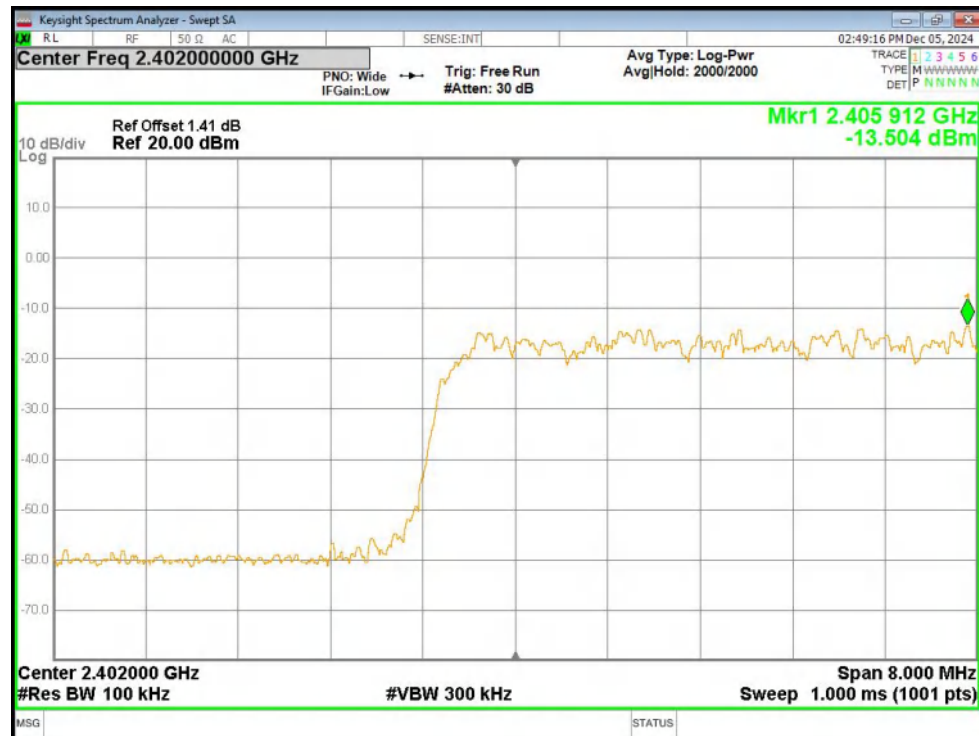
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



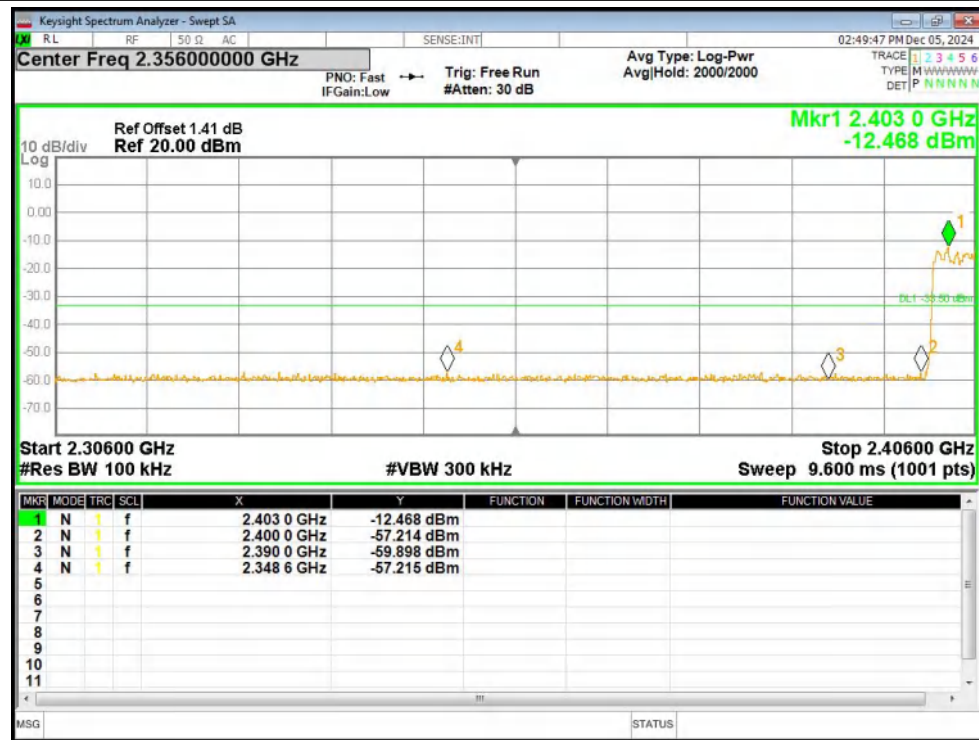
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



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



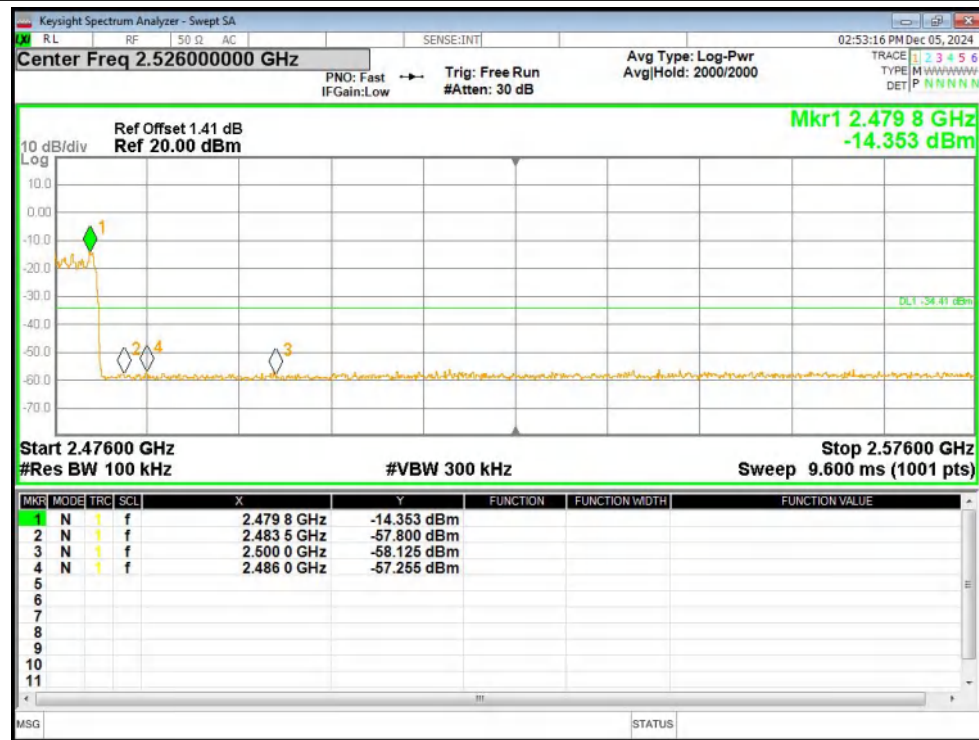
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



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



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

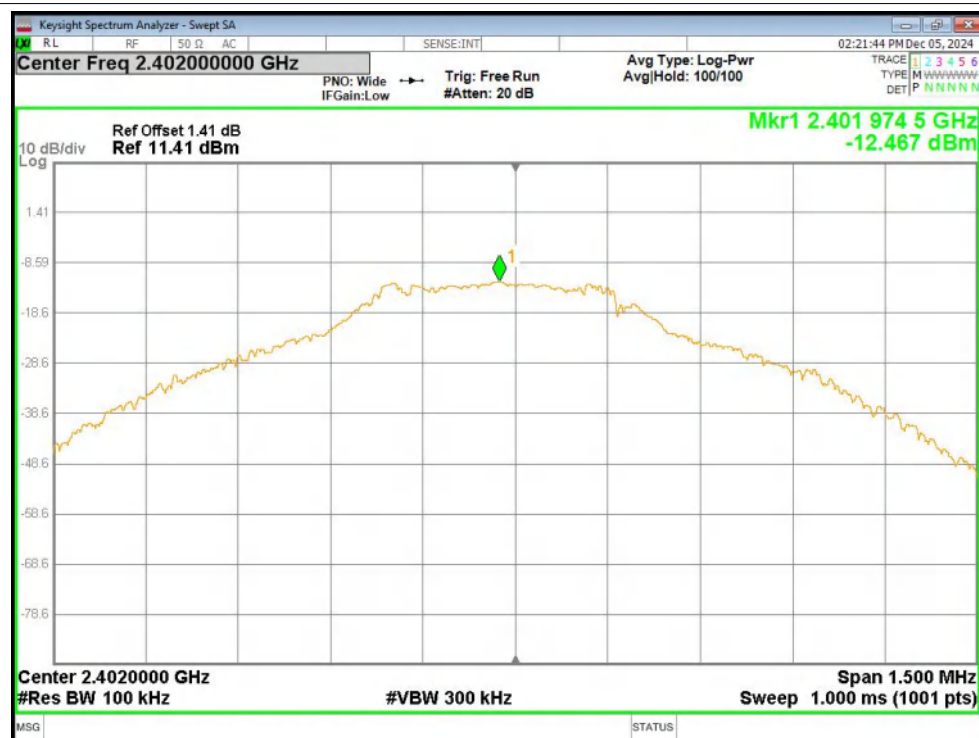


9. Conducted RF Spurious Emission

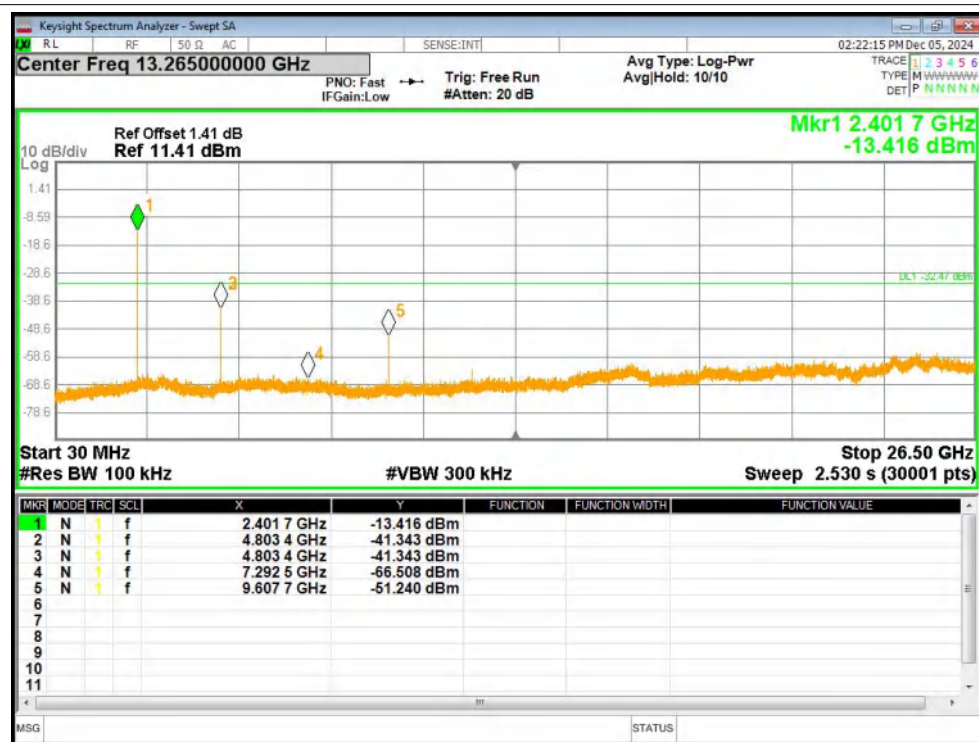
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	-28.87	-20	Pass
1-DH5	2441	-32.17	-20	Pass
1-DH5	2480	-36.37	-20	Pass
2-DH5	2402	-29.18	-20	Pass
2-DH5	2441	-33.85	-20	Pass
2-DH5	2480	-38.1	-20	Pass
3-DH5	2402	-31.13	-20	Pass
3-DH5	2441	-33.24	-20	Pass
3-DH5	2480	-36.89	-20	Pass

Test Graphs

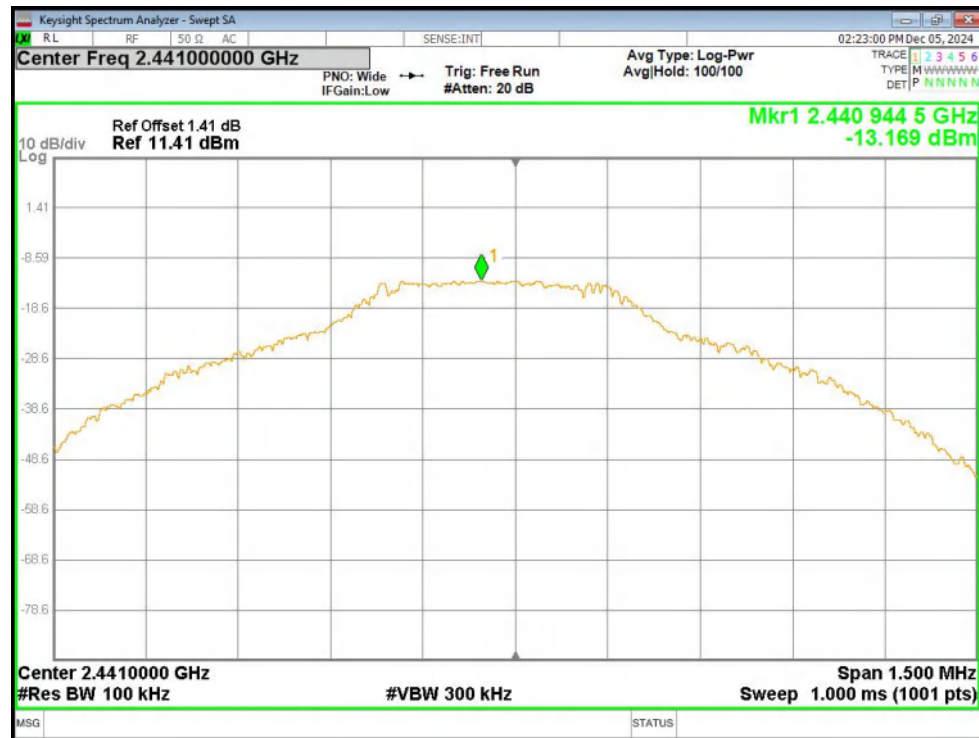
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



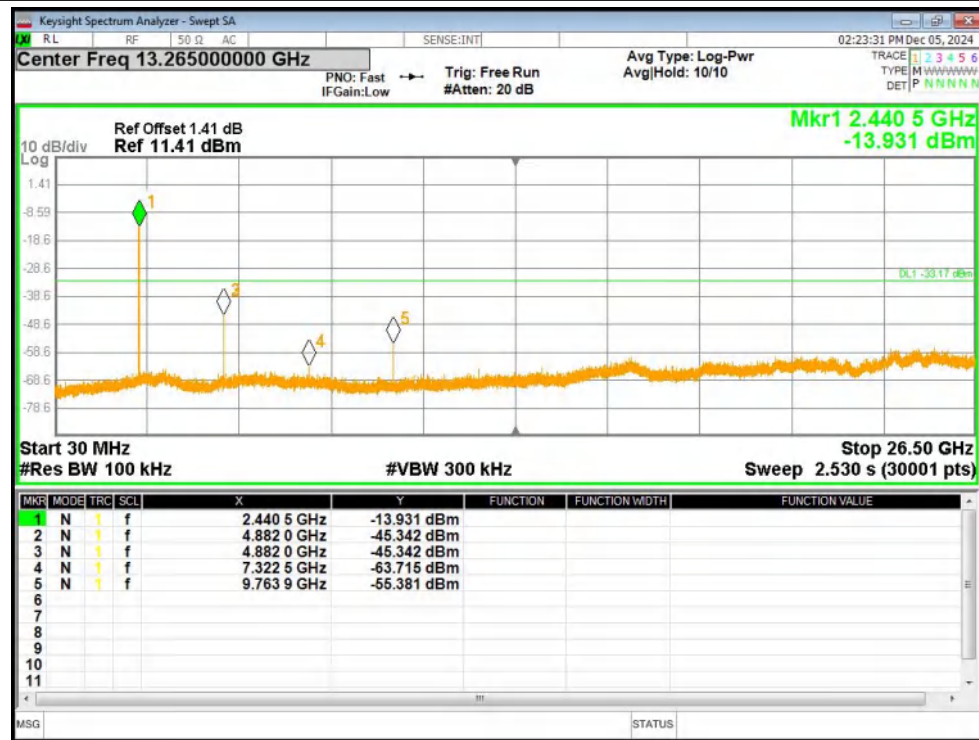
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



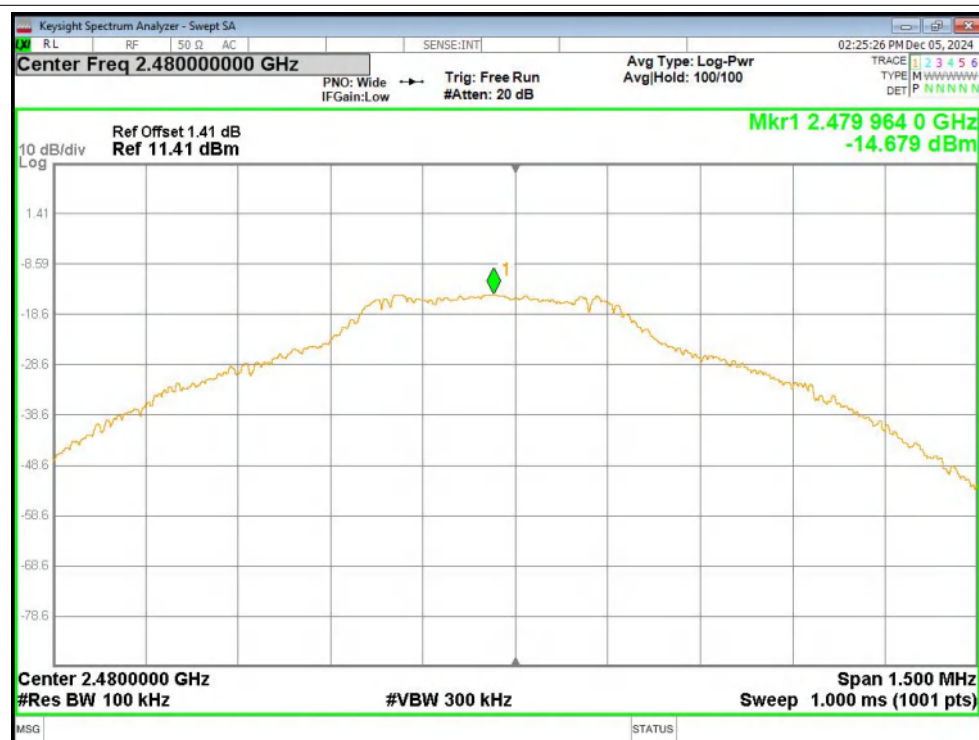
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



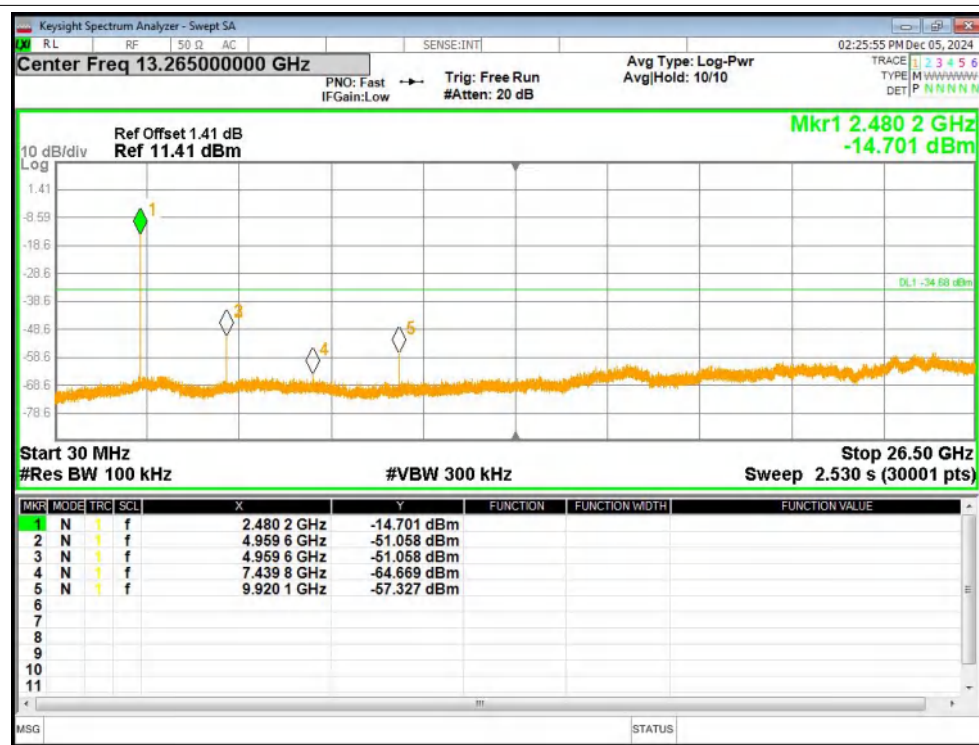
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



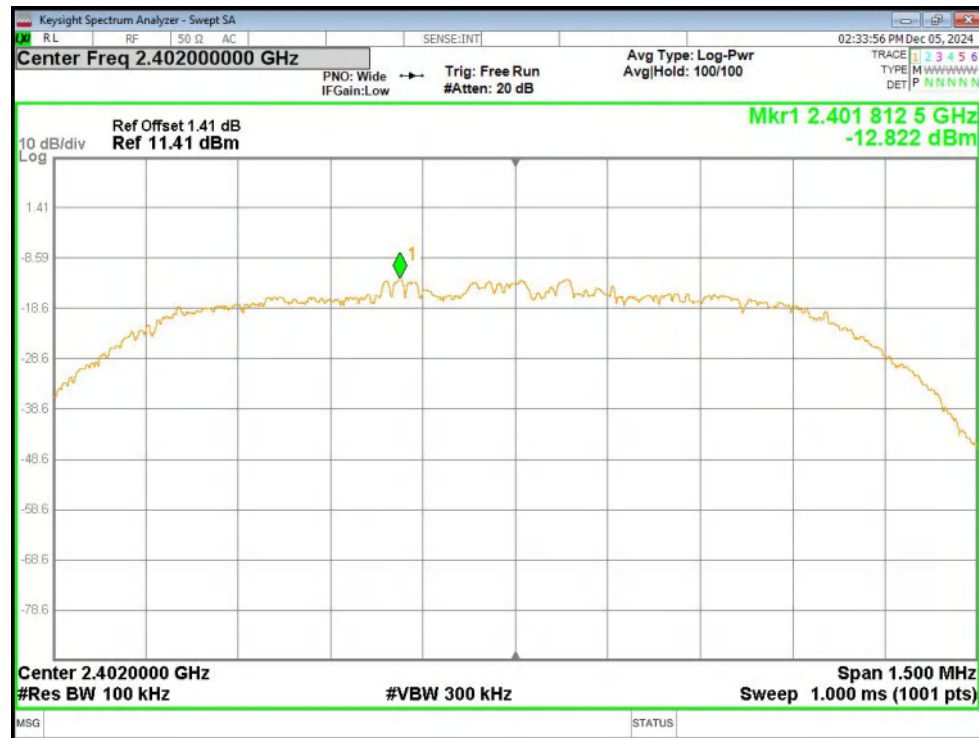
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



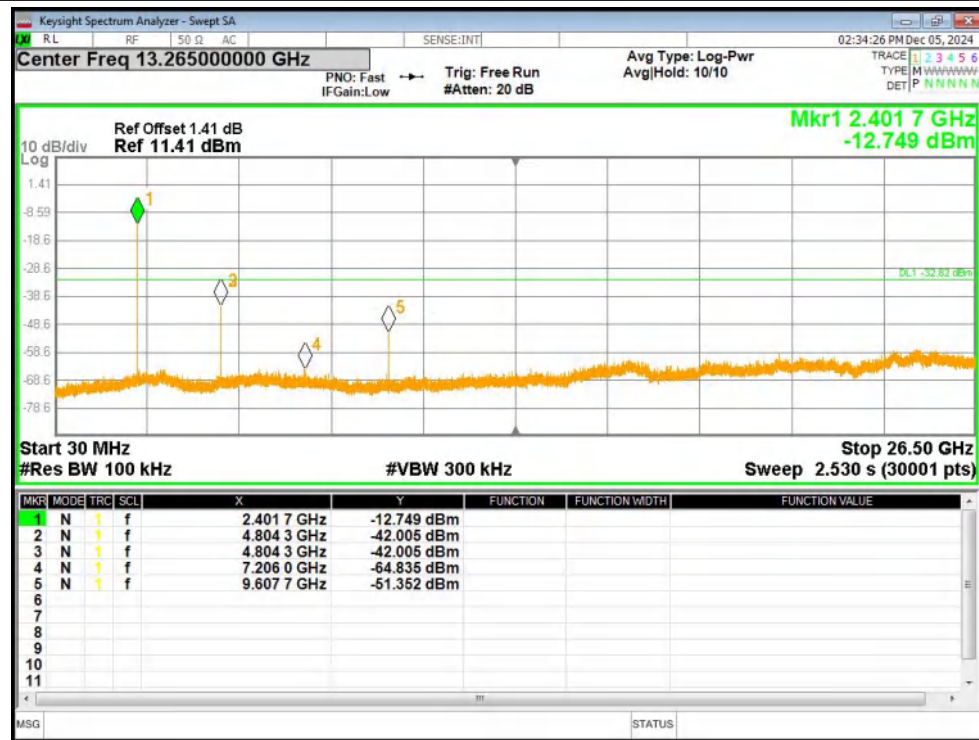
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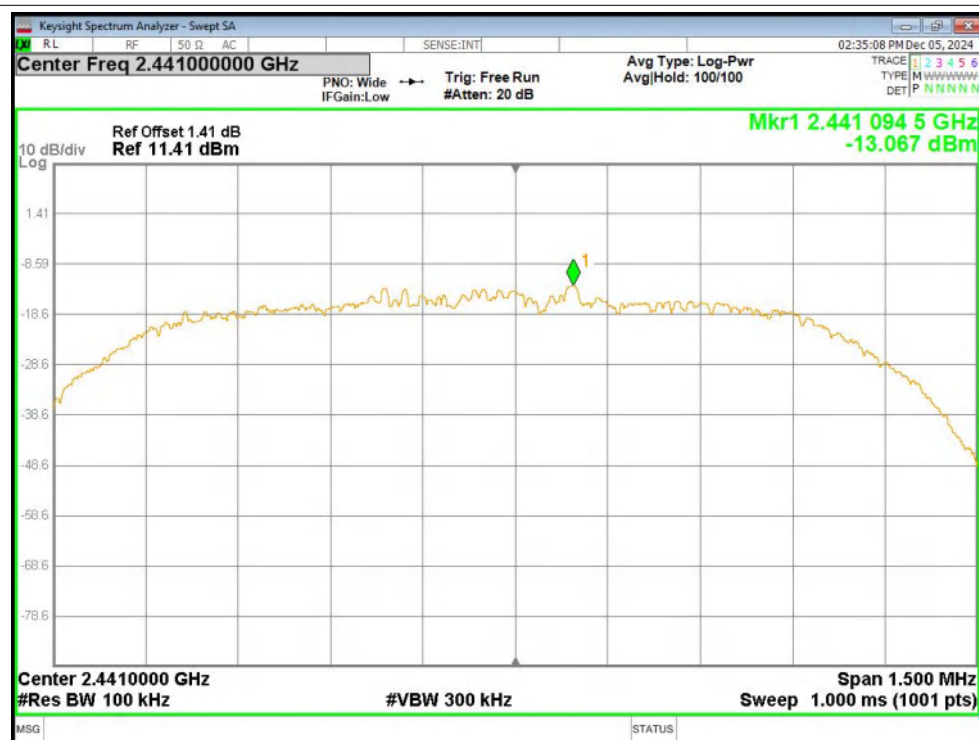
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



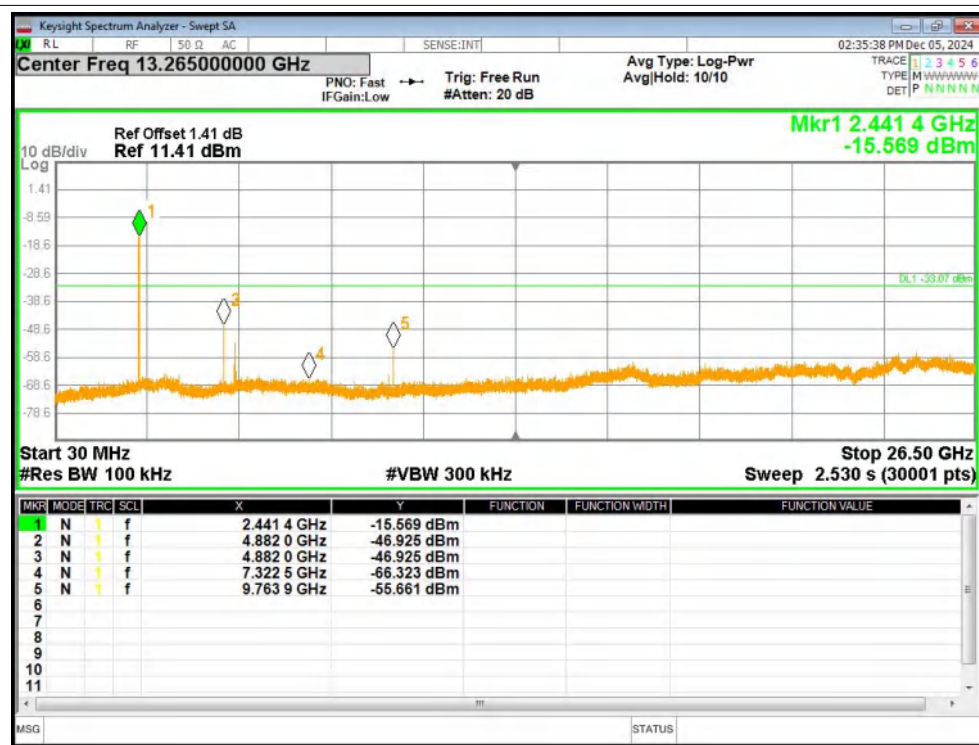
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



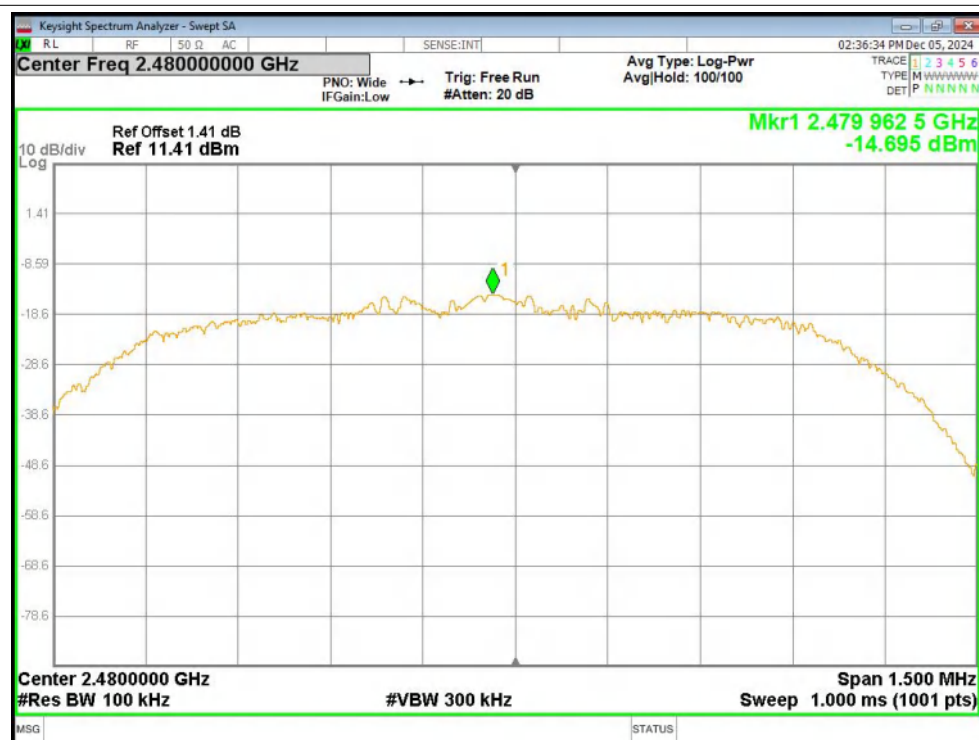
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



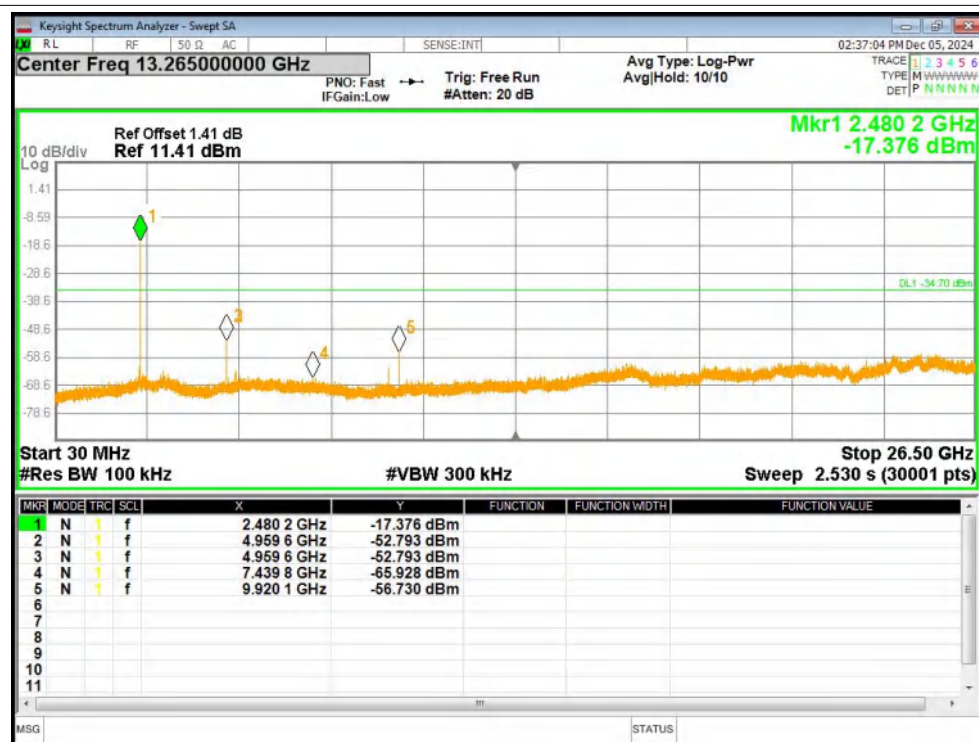
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



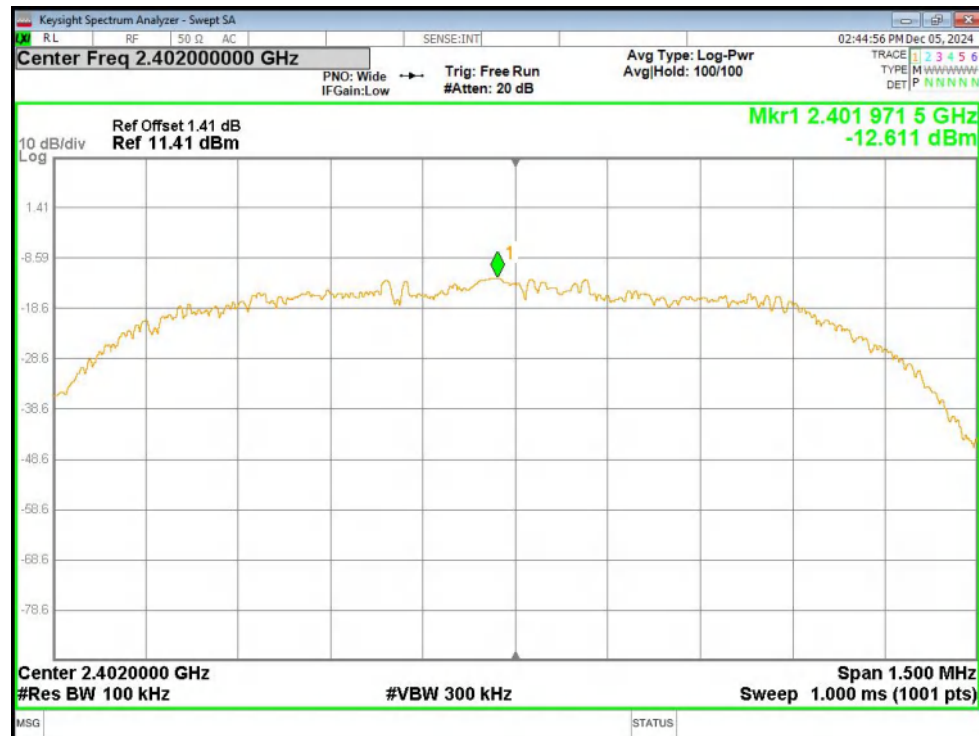
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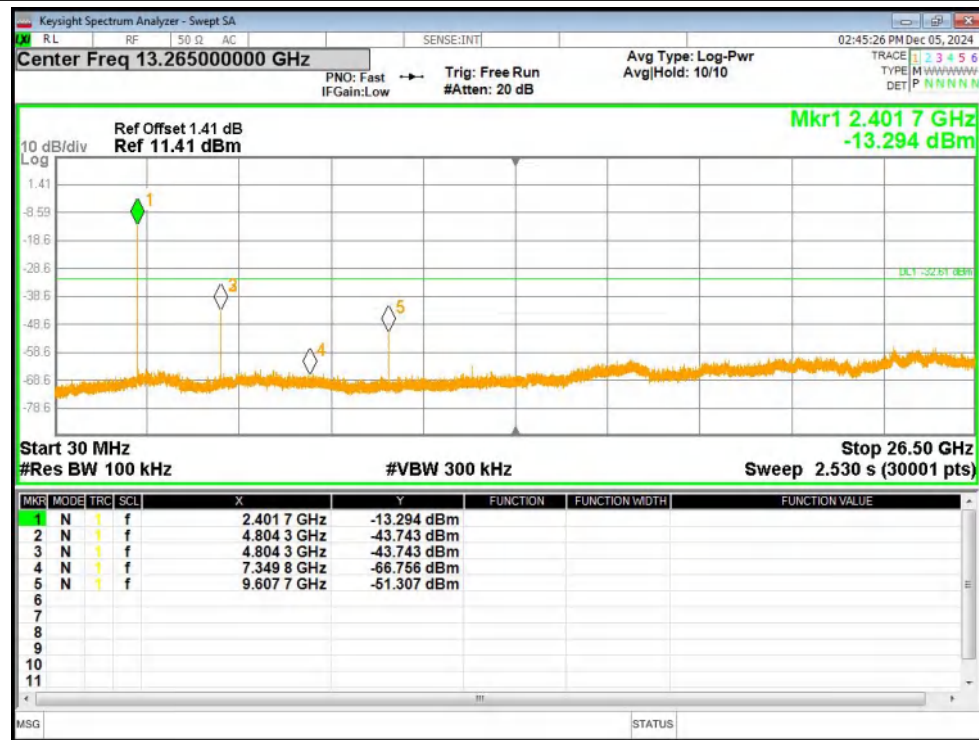
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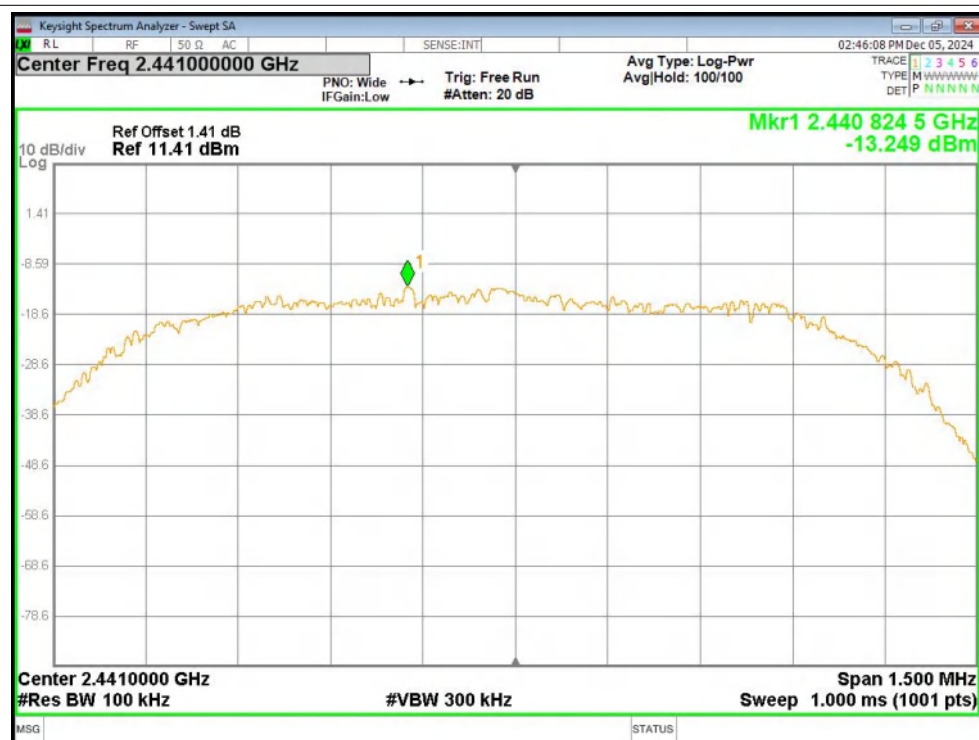
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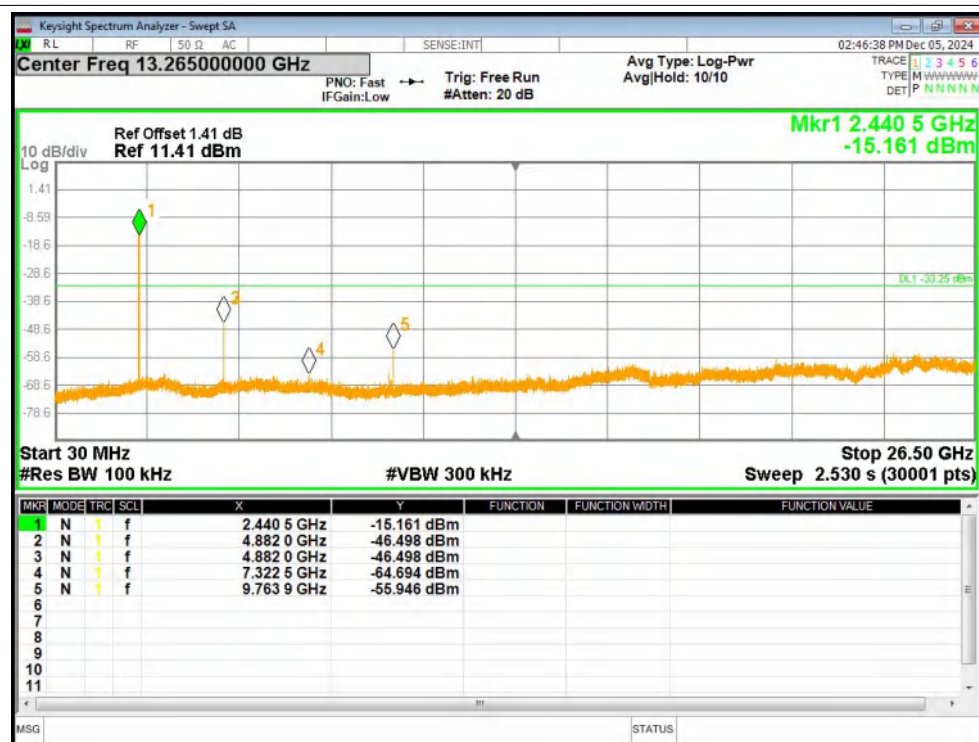
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



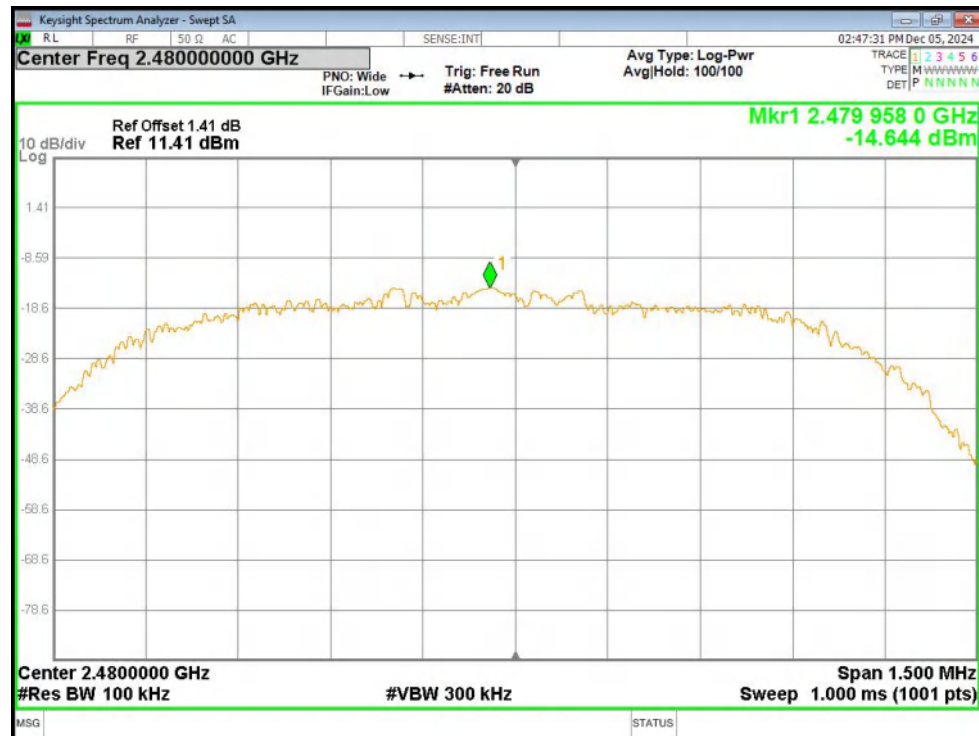
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

