

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	Insta360 Mic Air Transmitter
Test Model:	CINSABWB
Sample ID:	HC-C-202512-0369-01-01-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 3.87V
Test Engineer:	Lily. zhang
Note: For a more detailed features description, please refer to the report TBR-C-202512-0369-29 The report only show the worst case data.	

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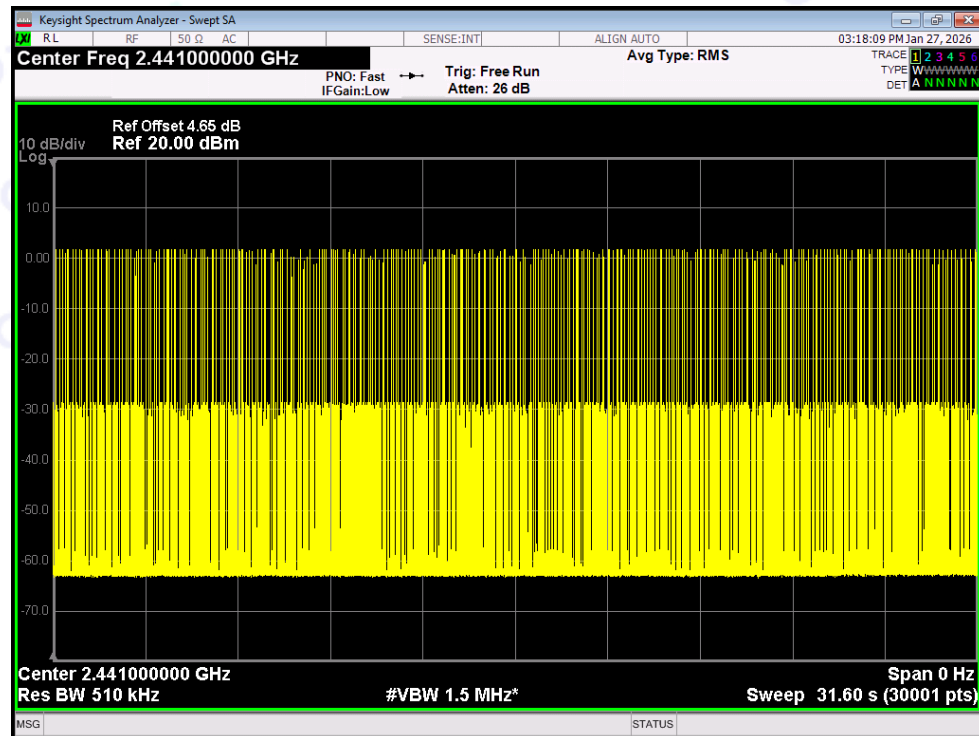
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1. Dwell Time

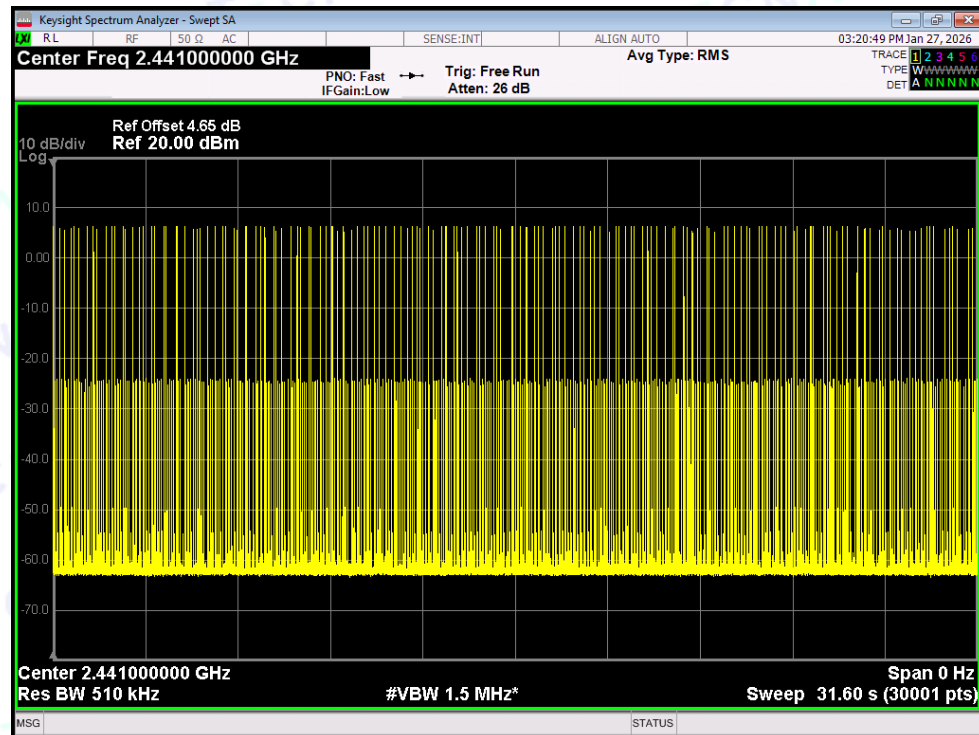
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Burst Number	Verdict
NVNT	1-DH1	2441	Ant1	0.372	118.668	31600	400	319	Pass
NVNT	1-DH3	2441	Ant1	1.62	259.2	31600	400	160	Pass
NVNT	1-DH5	2441	Ant1	2.869	304.114	31600	400	106	Pass
NVNT	2-DH1	2441	Ant1	0.381	121.539	31600	400	319	Pass
NVNT	2-DH3	2441	Ant1	1.632	259.488	31600	400	159	Pass
NVNT	2-DH5	2441	Ant1	2.881	305.386	31600	400	106	Pass
NVNT	3-DH1	2441	Ant1	0.38	120.84	31600	400	318	Pass
NVNT	3-DH3	2441	Ant1	1.631	259.329	31600	400	159	Pass
NVNT	3-DH5	2441	Ant1	2.881	308.267	31600	400	107	Pass

Test Graphs

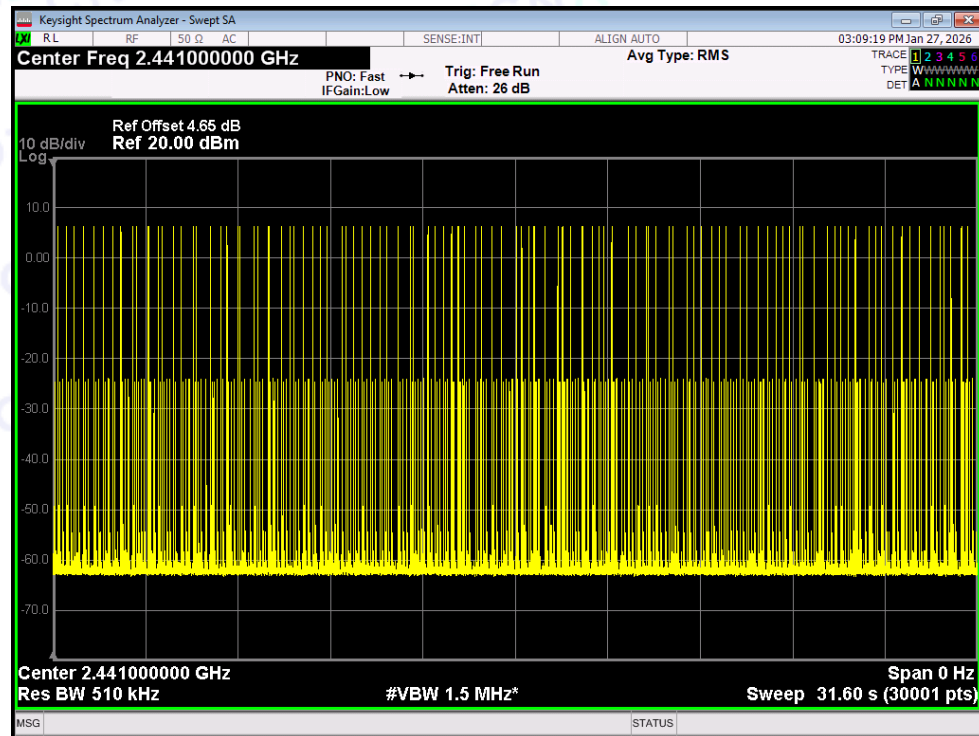
Dwell NVNT 1-DH1 2441MHz Ant1



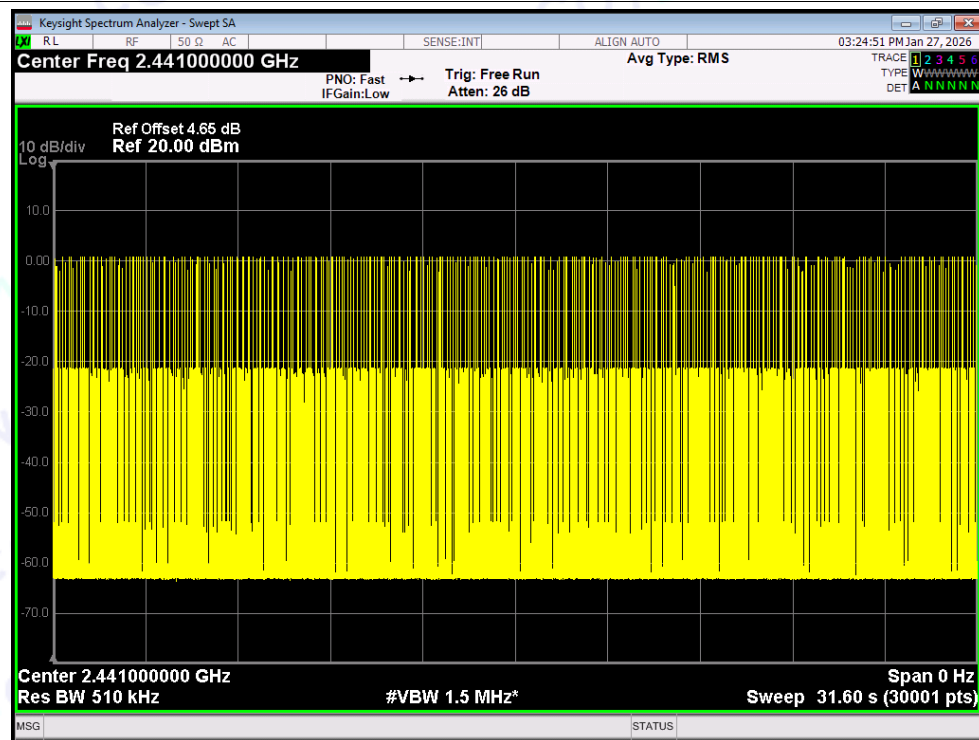
Dwell NVNT 1-DH3 2441MHz Ant1



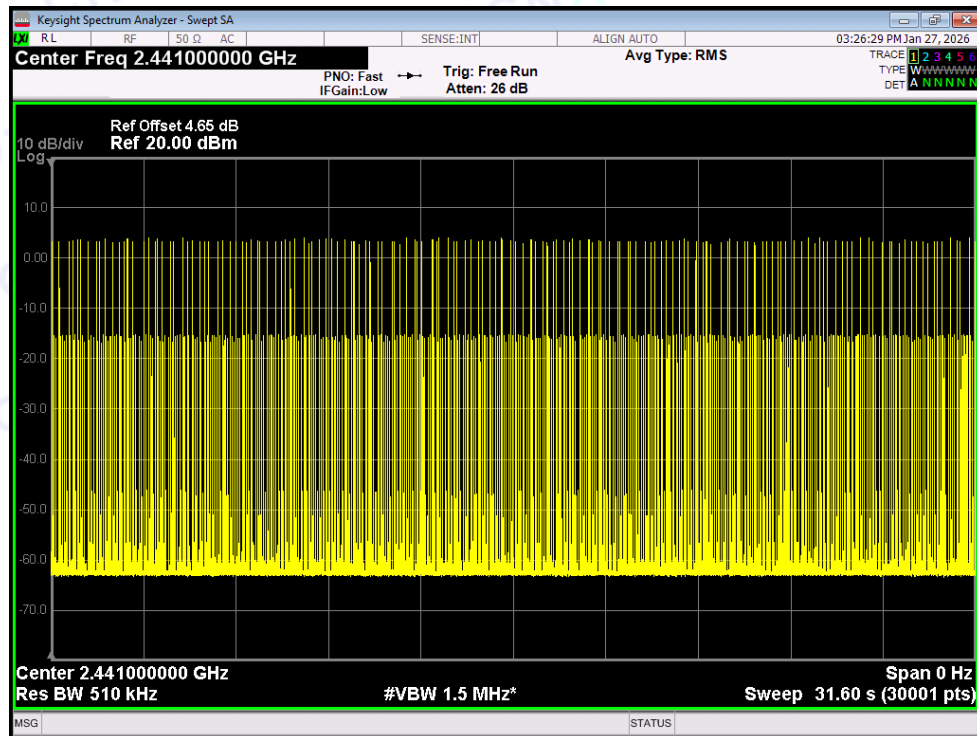
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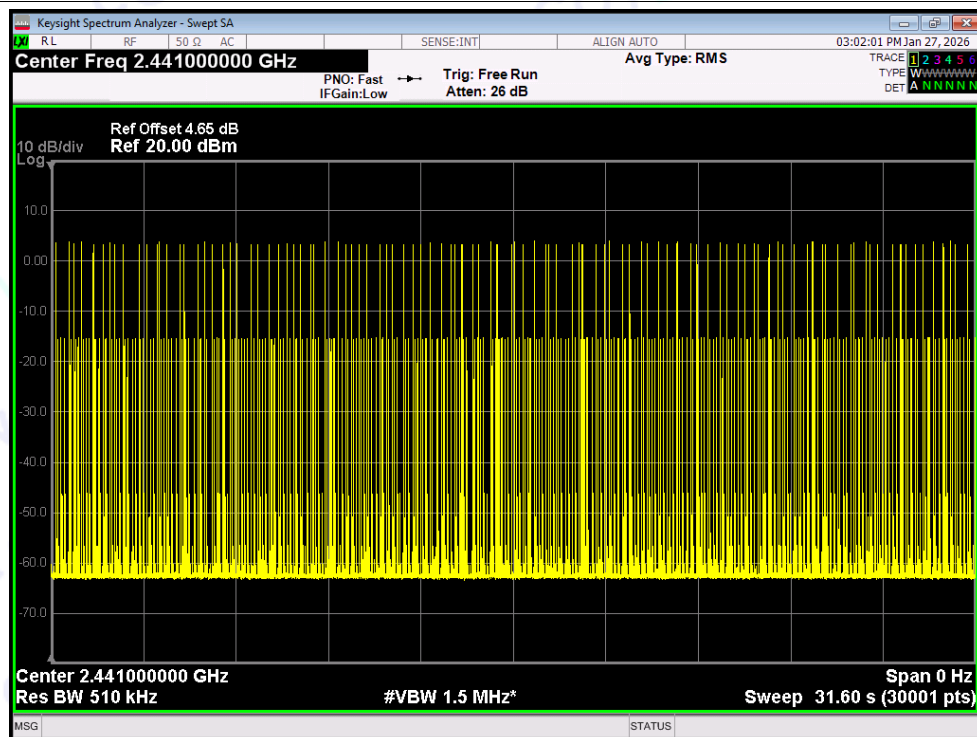
Dwell NVNT 2-DH1 2441MHz Ant1

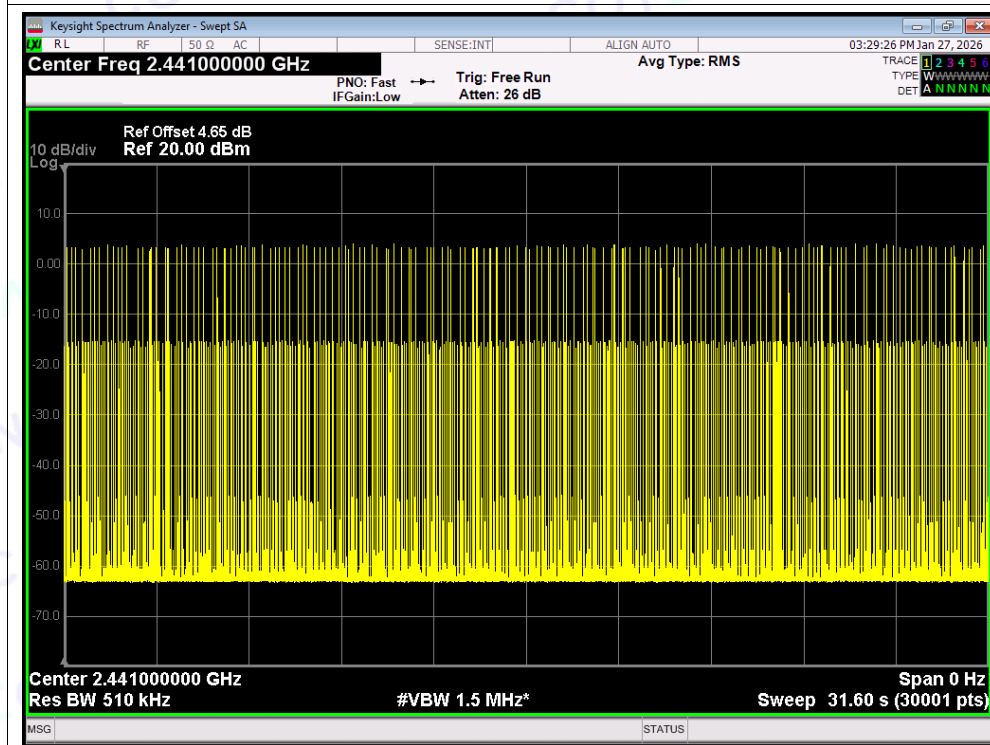


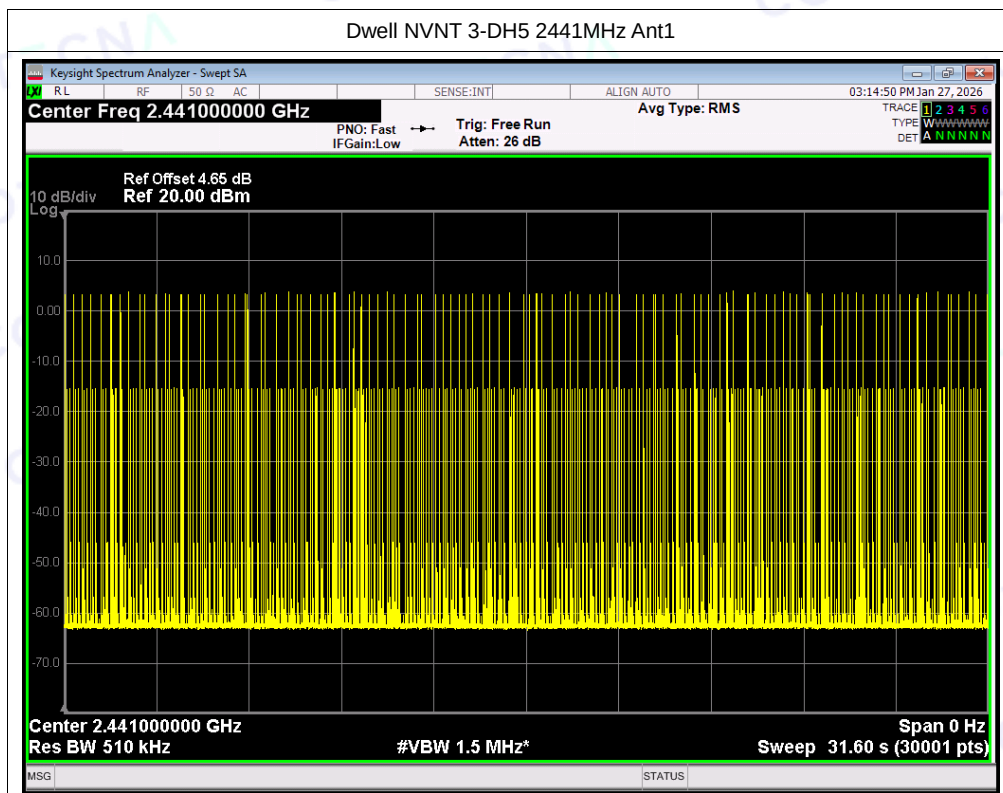
Dwell NVNT 2-DH3 2441MHz Ant1



Dwell NVNT 2-DH5 2441MHz Ant1

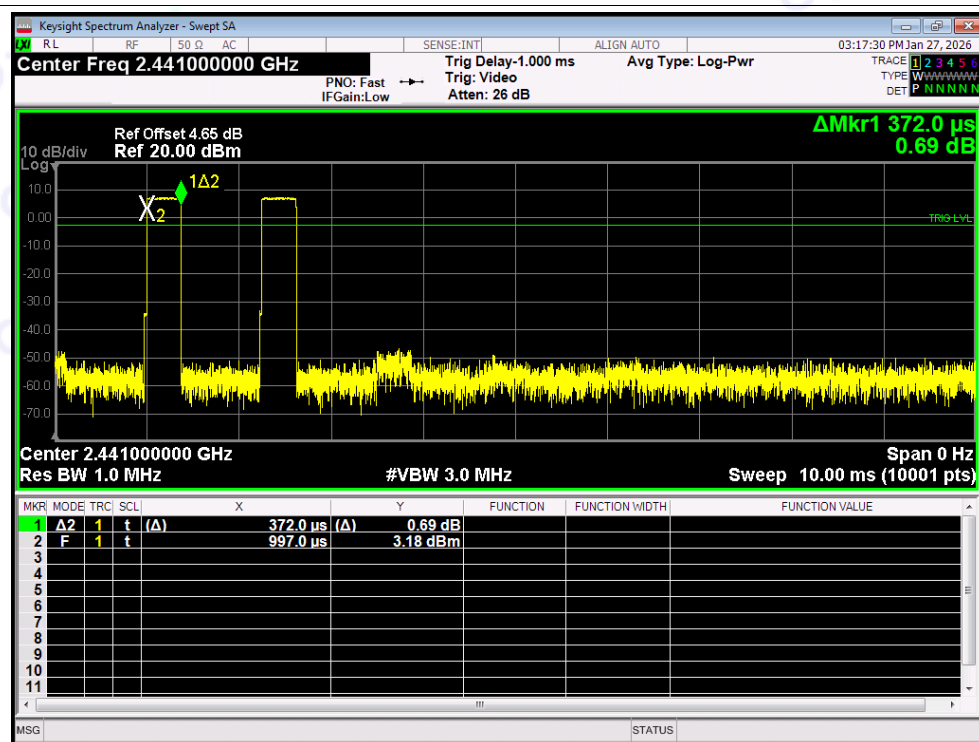




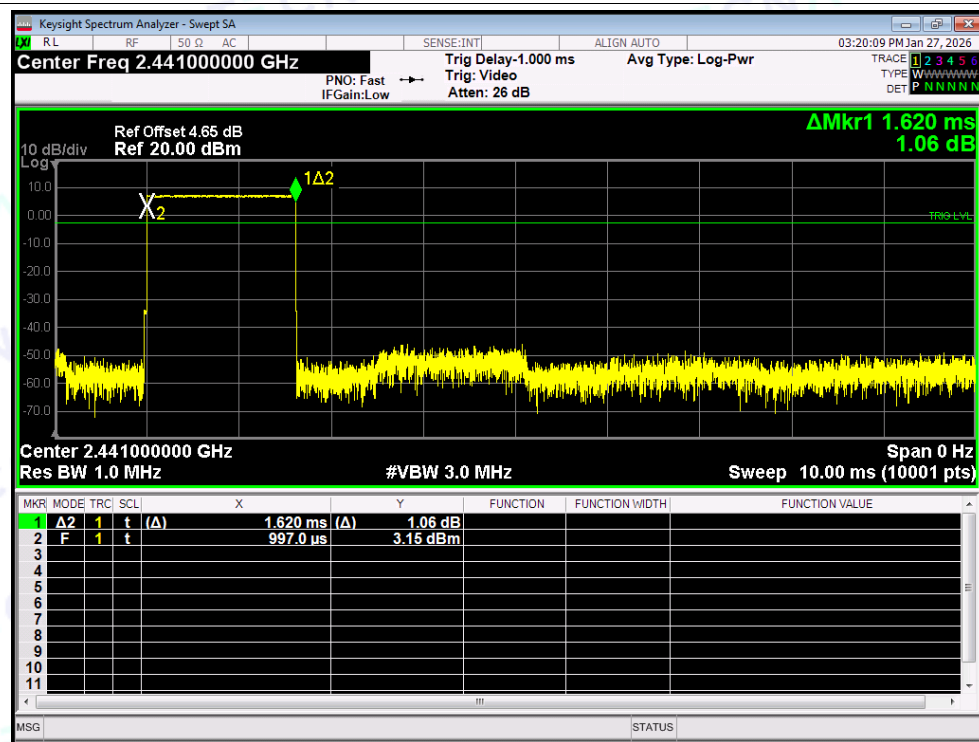


Test Graphs

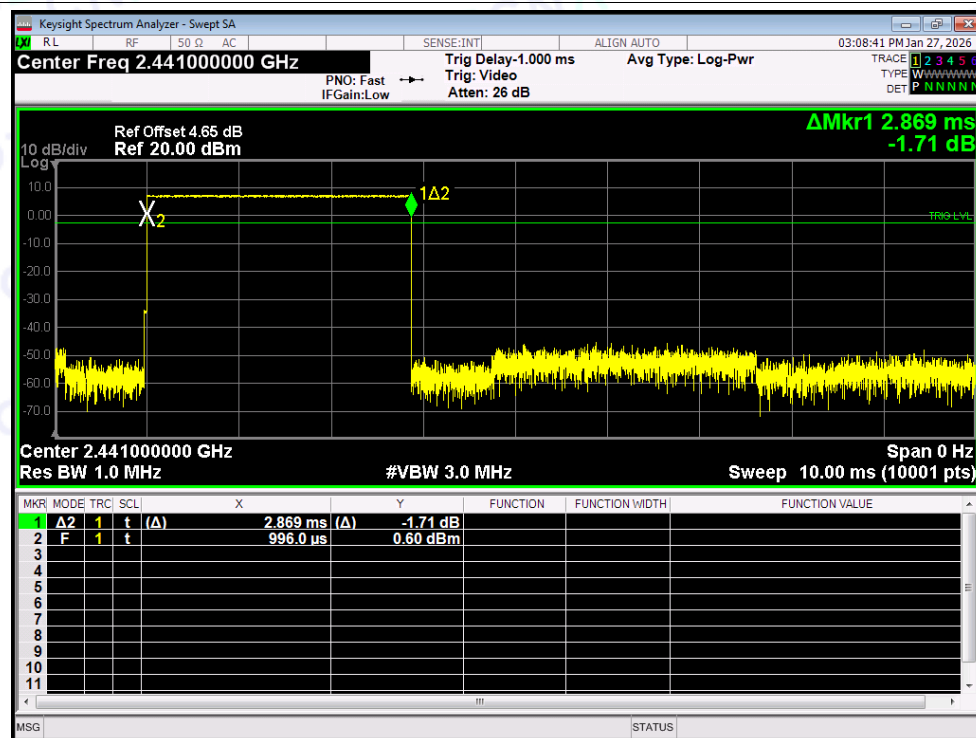
One Burst NVNT 1-DH1 2441MHz Ant1 One Burst



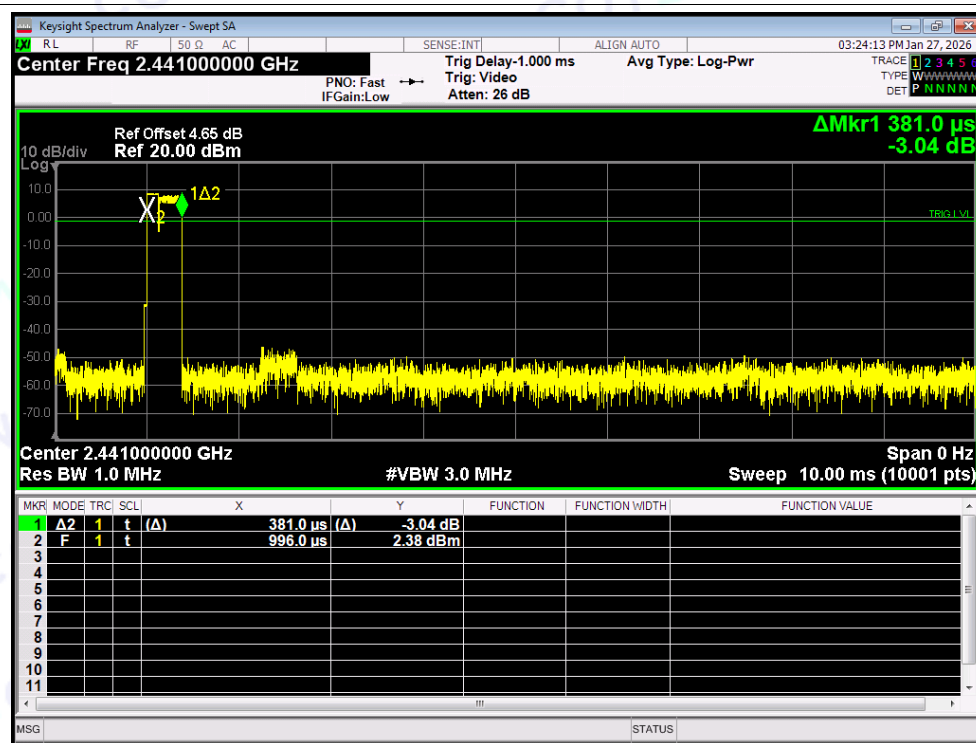
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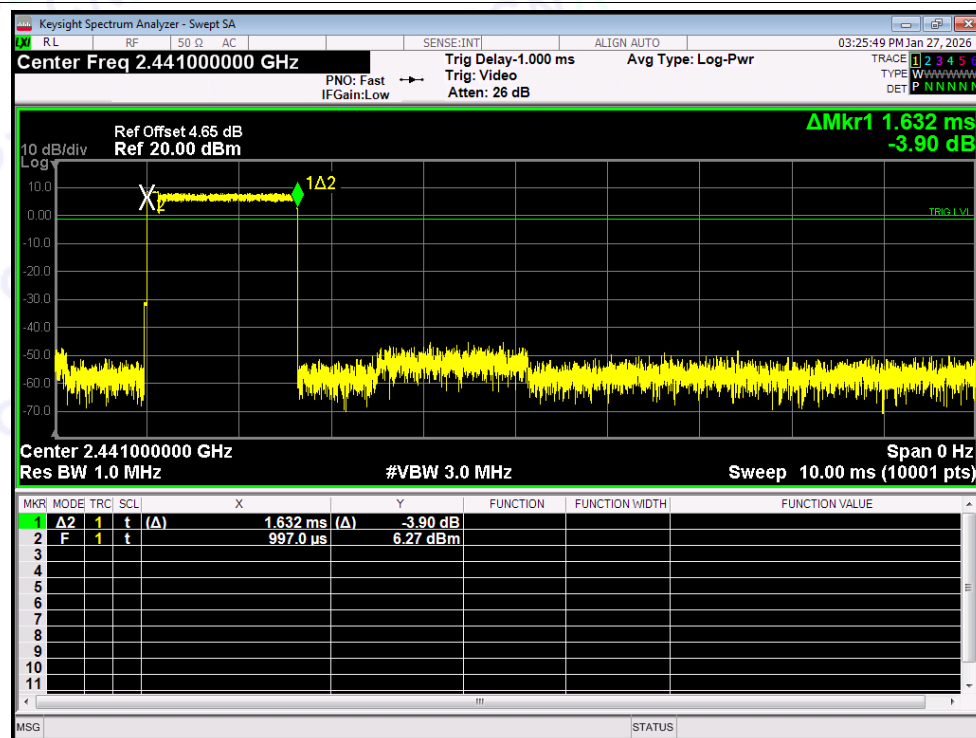
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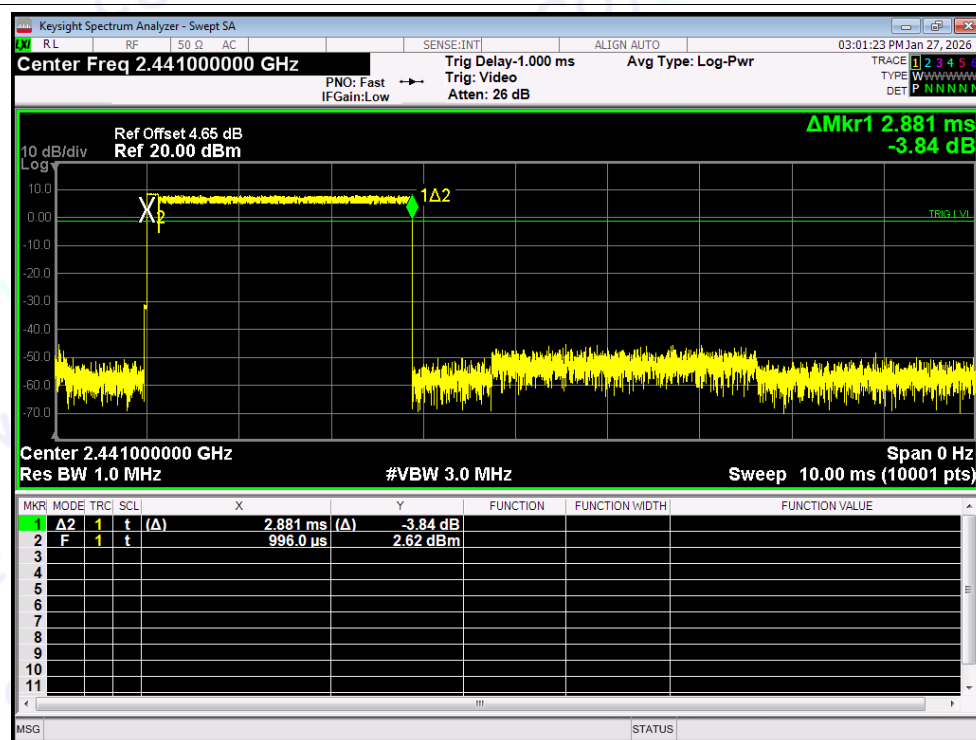
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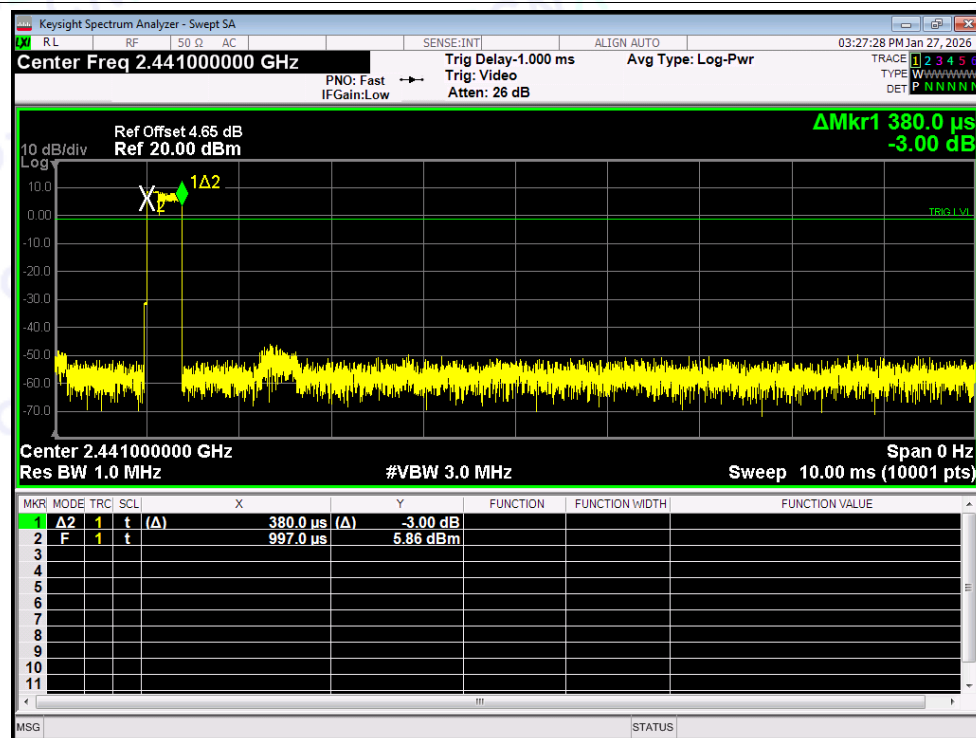
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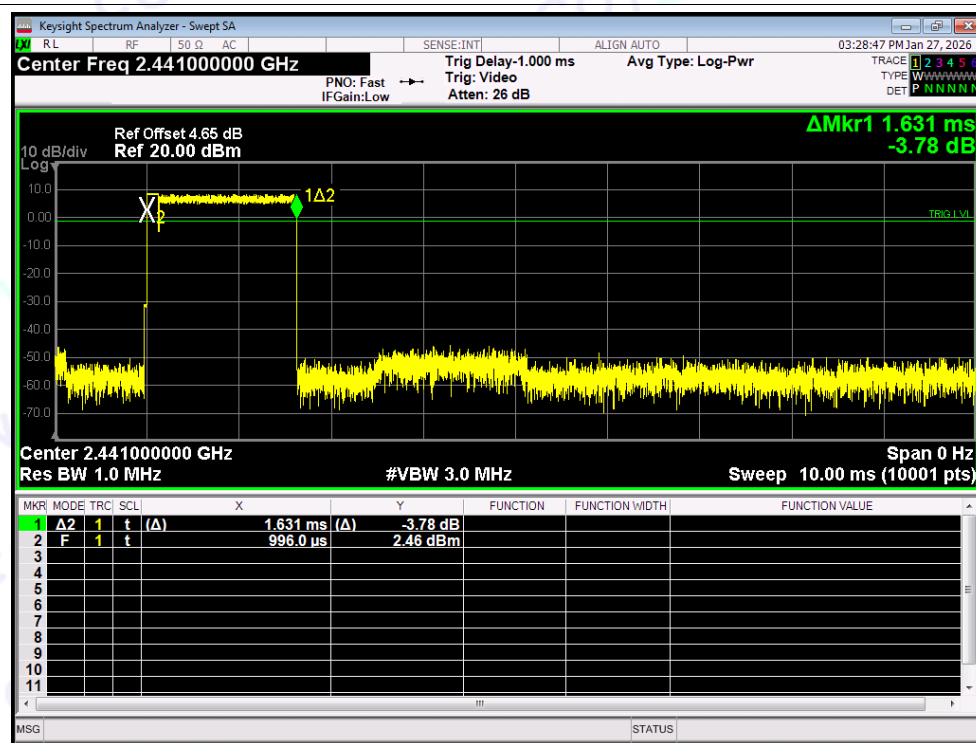
One Burst NVNT 2-DH5 2441MHz Ant1 One Burst

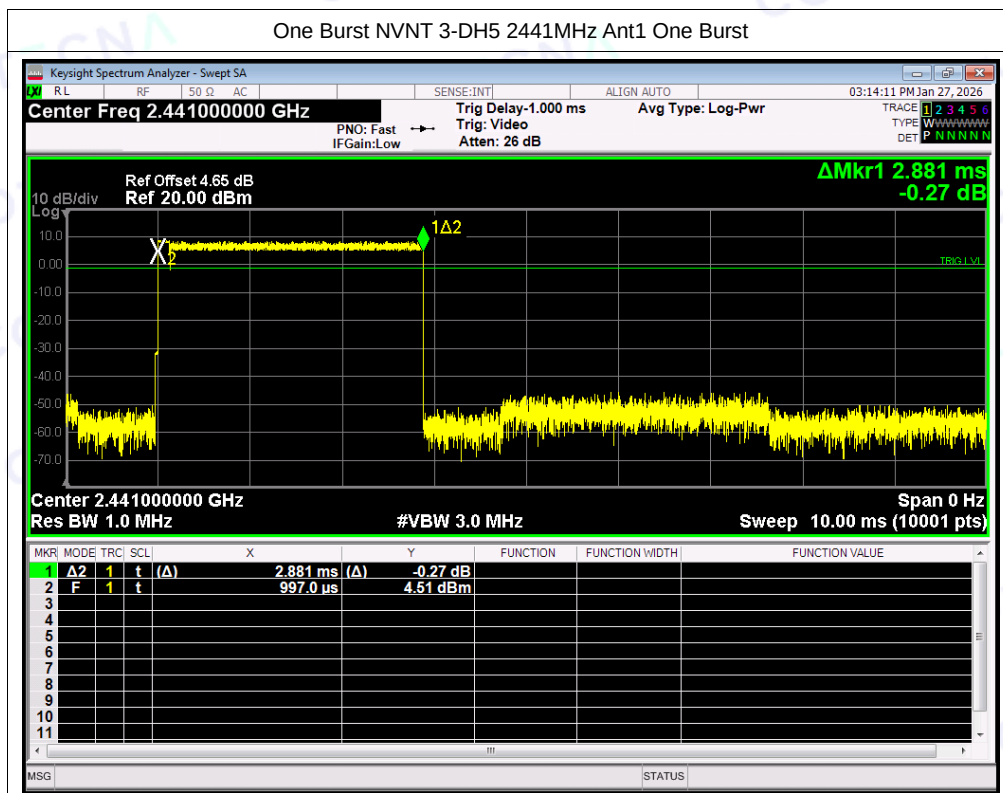


One Burst NVNT 3-DH1 2441MHz Ant1 One Burst



One Burst NVNT 3-DH3 2441MHz Ant1 One Burst



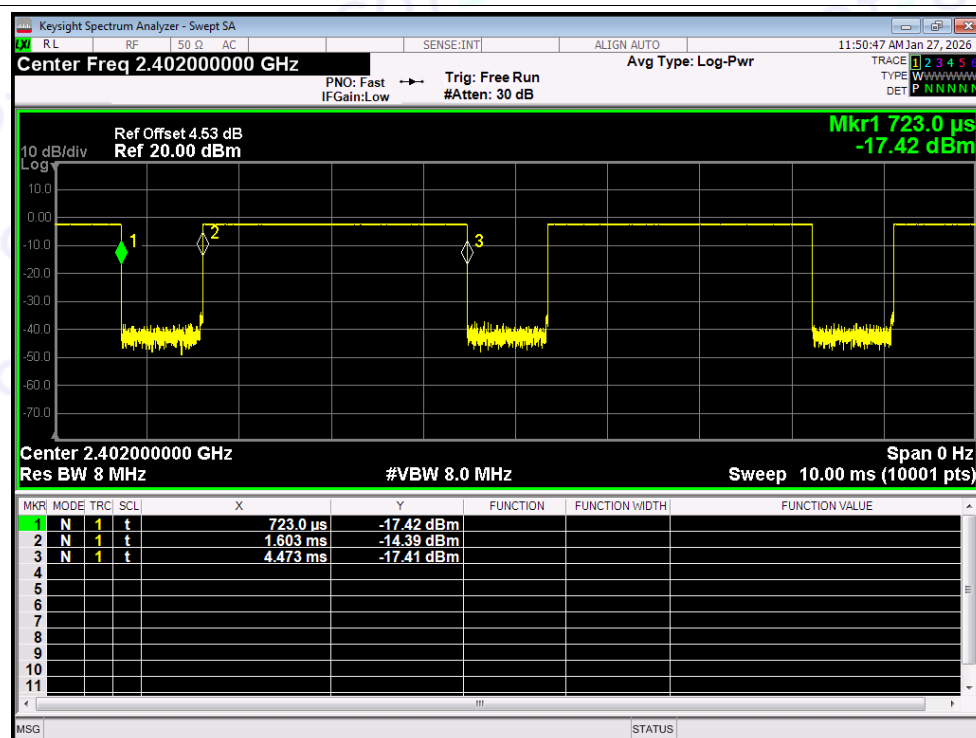


2. Duty Cycle

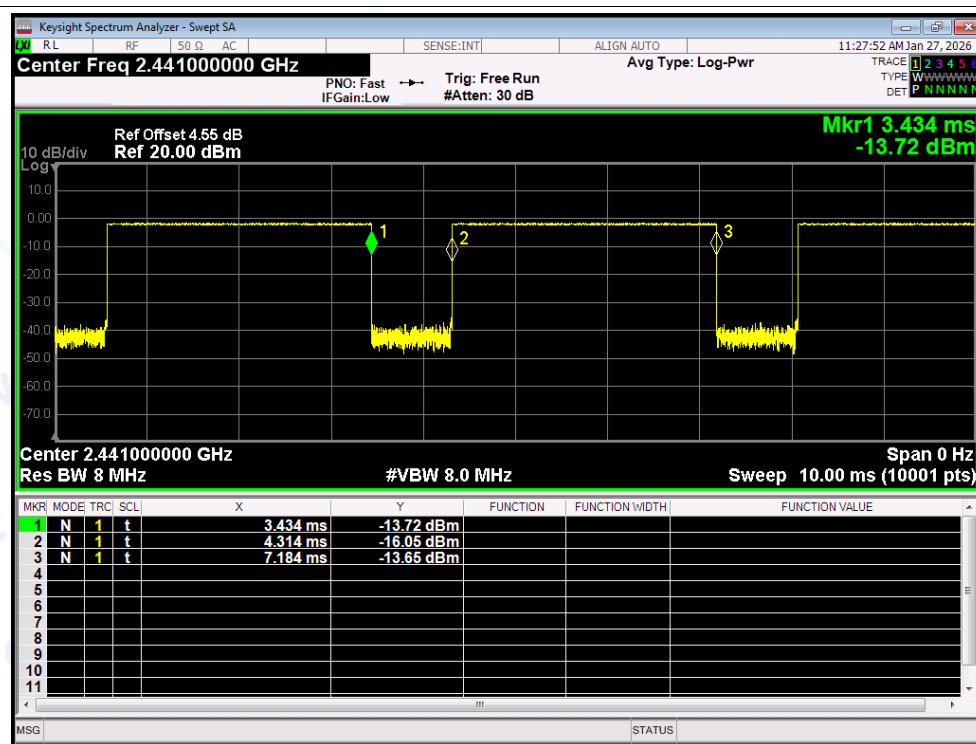
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	76.53	1.16	0.35
NVNT	1-DH5	2441	Ant1	76.53	1.16	0.35
NVNT	1-DH5	2480	Ant1	76.53	1.16	0.35
NVNT	2-DH5	2402	Ant1	76.85	1.14	0.35
NVNT	2-DH5	2441	Ant1	76.85	1.14	0.35
NVNT	2-DH5	2480	Ant1	76.85	1.14	0.35
NVNT	3-DH5	2402	Ant1	76.85	1.14	0.35
NVNT	3-DH5	2441	Ant1	76.88	1.14	0.35
NVNT	3-DH5	2480	Ant1	76.87	1.14	0.35

Test Graphs

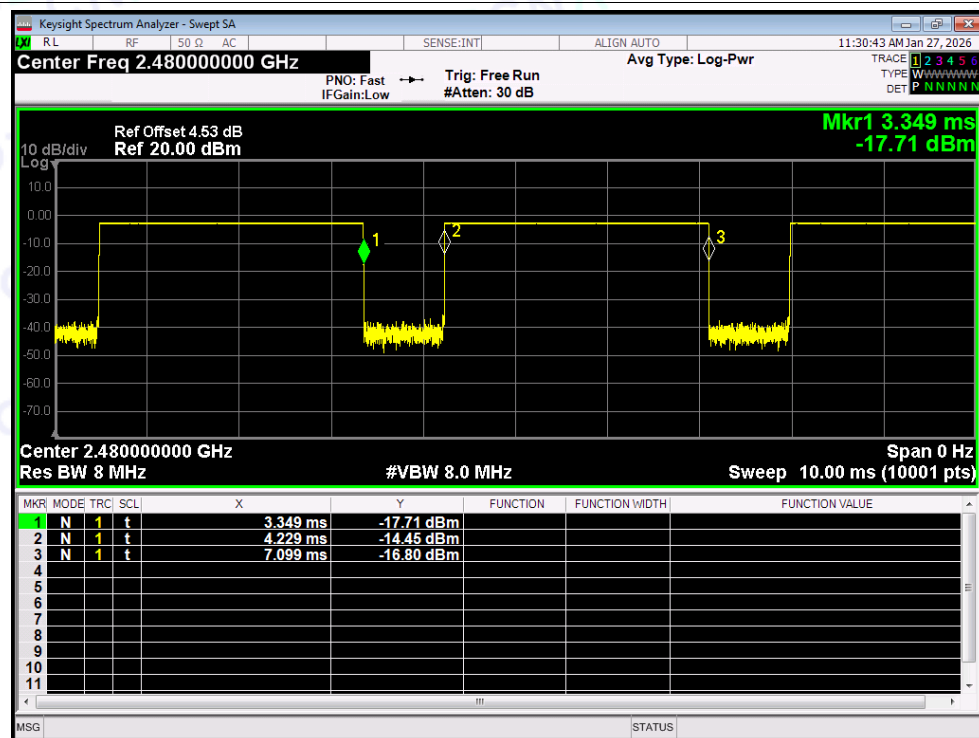
Duty Cycle NVNT 1-DH5 2402MHz Ant1



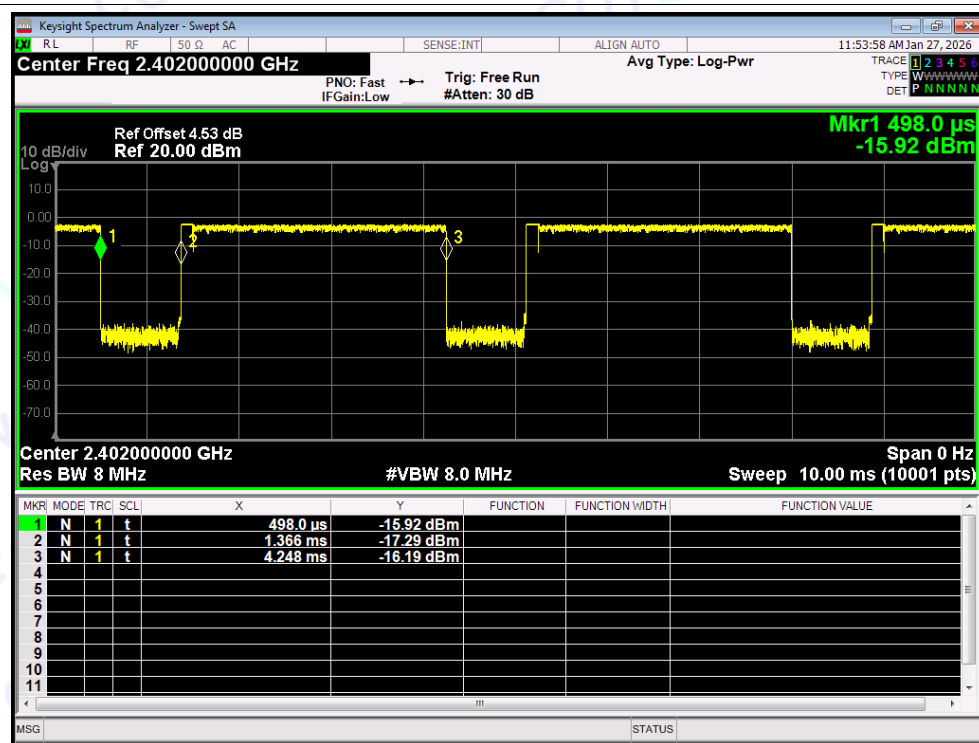
Duty Cycle NVNT 1-DH5 2441MHz Ant1



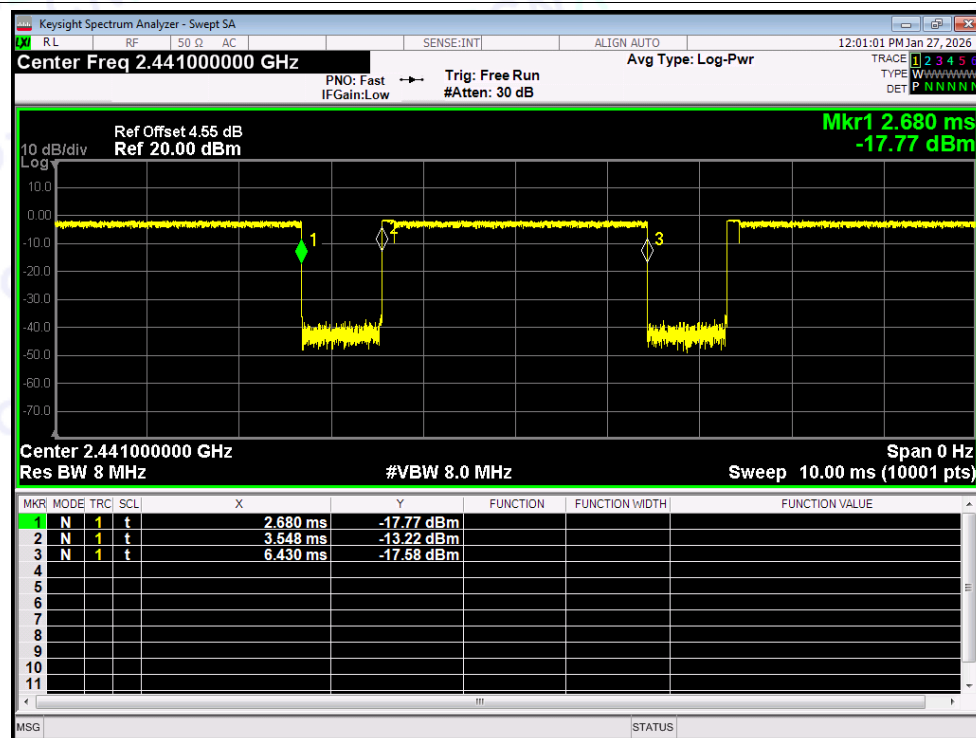
Duty Cycle NVNT 1-DH5 2480MHz Ant1



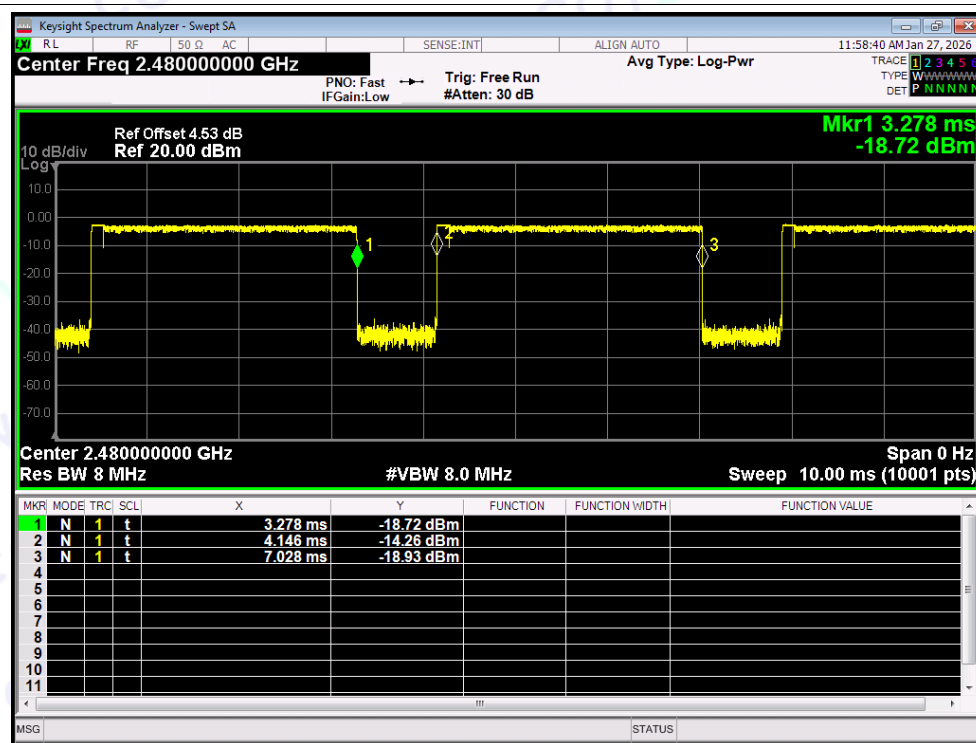
Duty Cycle NVNT 2-DH5 2402MHz Ant1



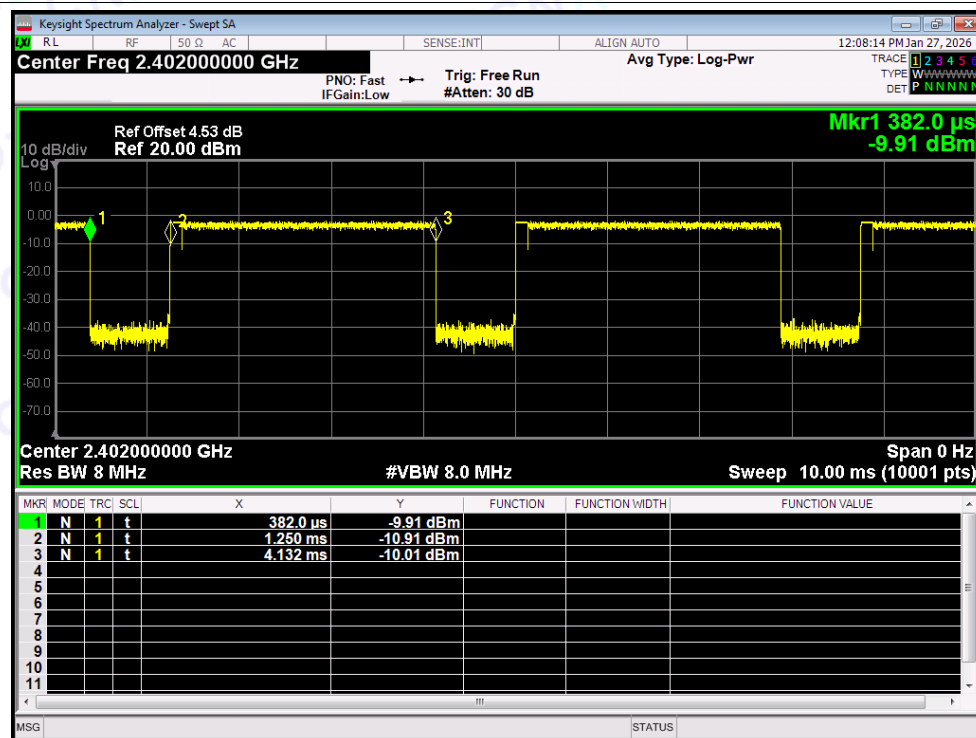
Duty Cycle NVNT 2-DH5 2441MHz Ant1



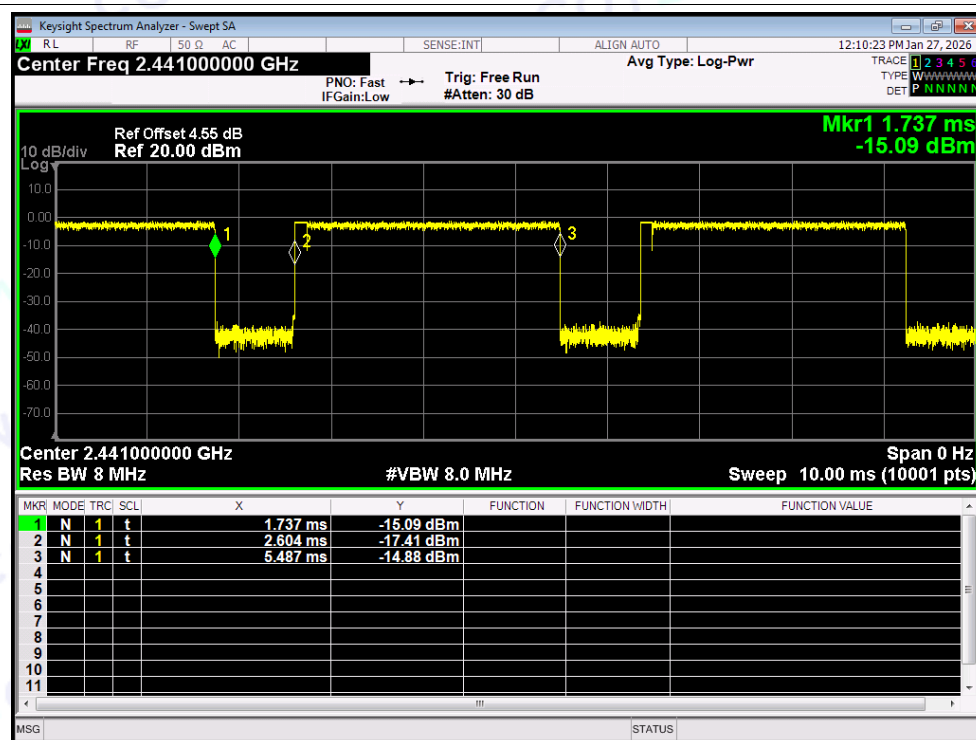
Duty Cycle NVNT 2-DH5 2480MHz Ant1

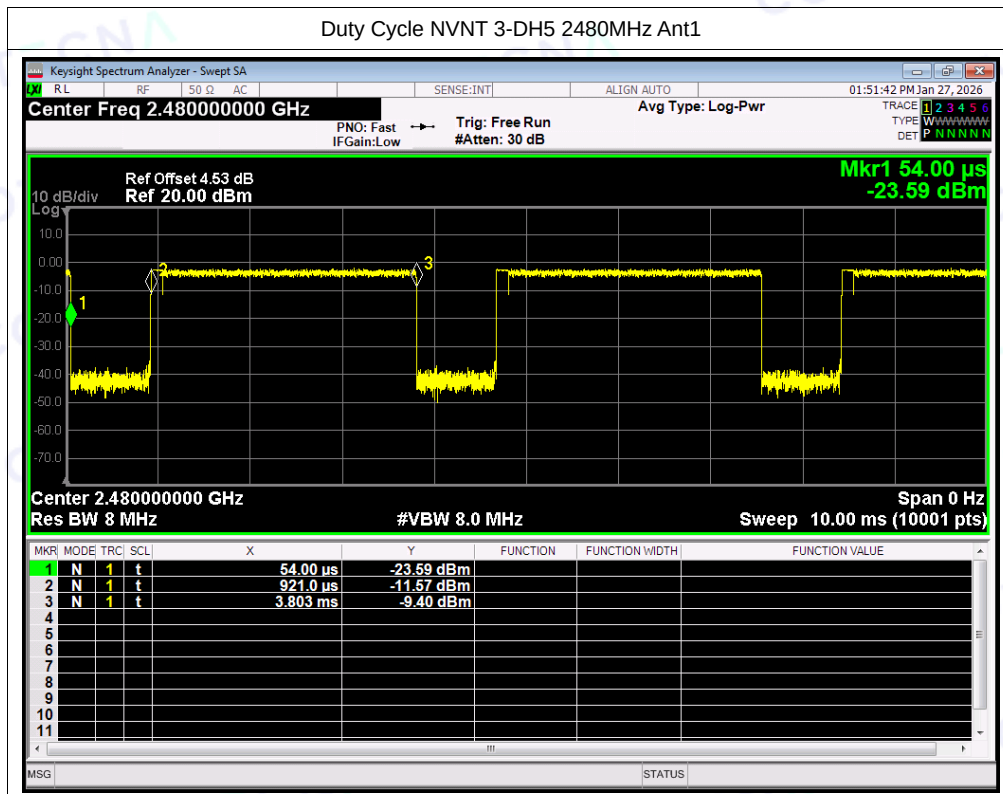


Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1



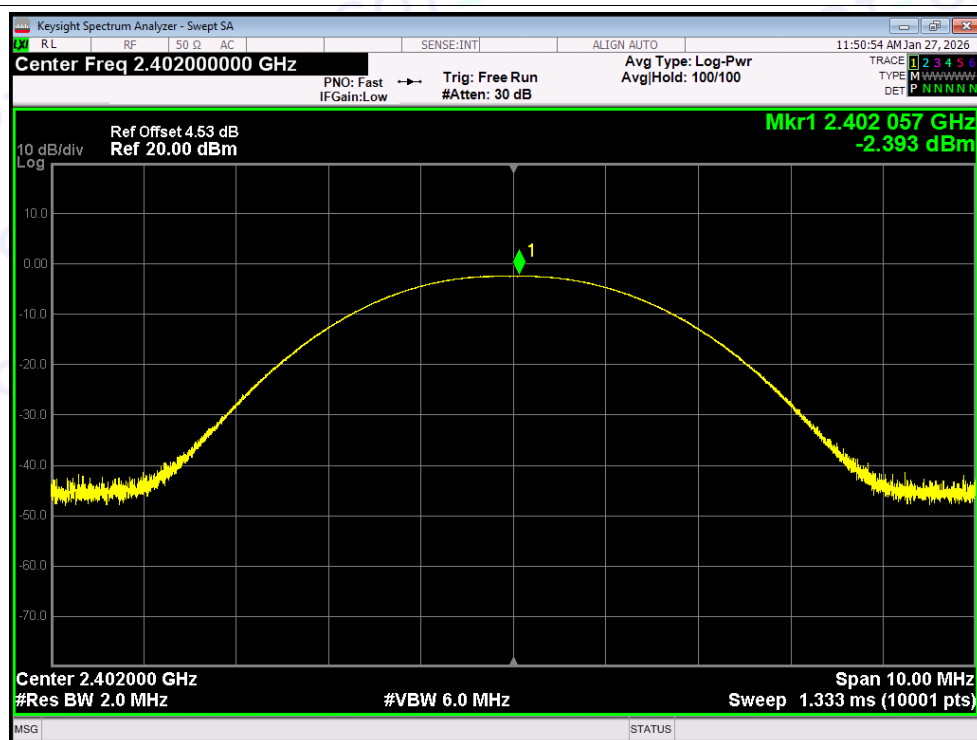


3. Maximum Conducted Output Power

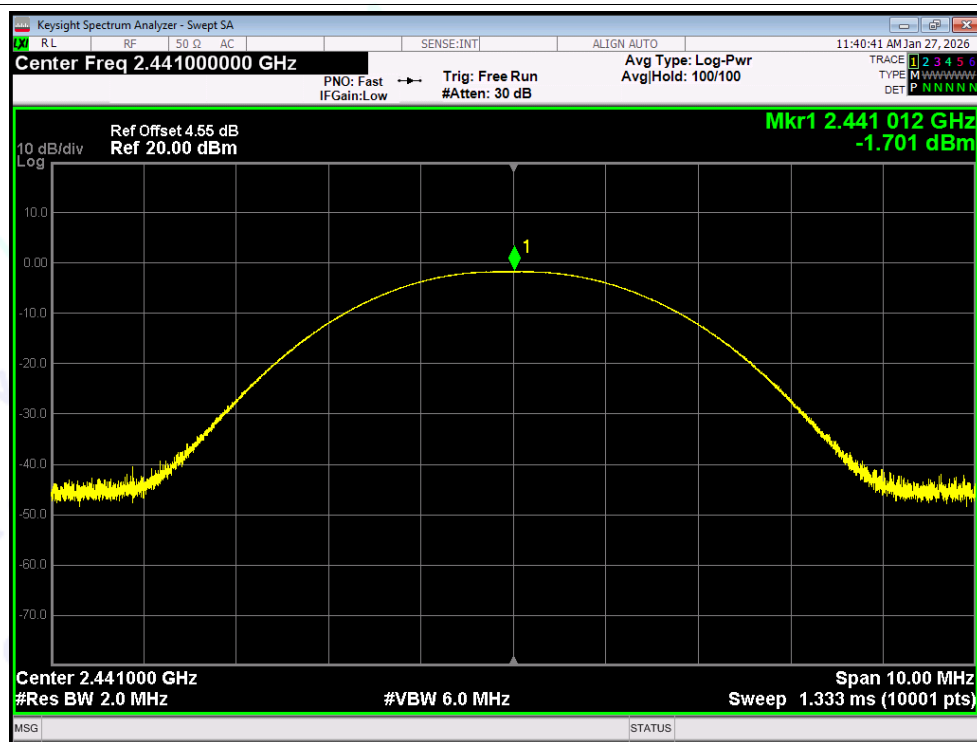
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-2.393	21	Pass
NVNT	1-DH5	2441	Ant1	-1.701	21	Pass
NVNT	1-DH5	2480	Ant1	-2.67	21	Pass
NVNT	2-DH5	2402	Ant1	-2.395	21	Pass
NVNT	2-DH5	2441	Ant1	-1.639	21	Pass
NVNT	2-DH5	2480	Ant1	-2.655	21	Pass
NVNT	3-DH5	2402	Ant1	-2.121	21	Pass
NVNT	3-DH5	2441	Ant1	-1.347	21	Pass
NVNT	3-DH5	2480	Ant1	-2.335	21	Pass

Test Graphs

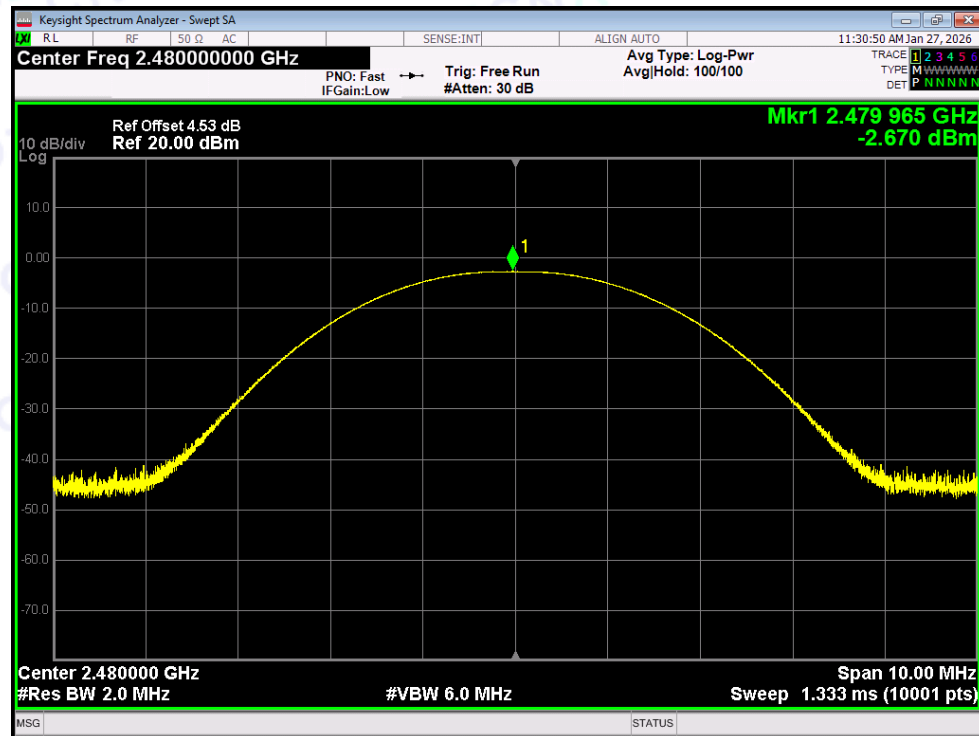
Power NVNT 1-DH5 2402MHz Ant1



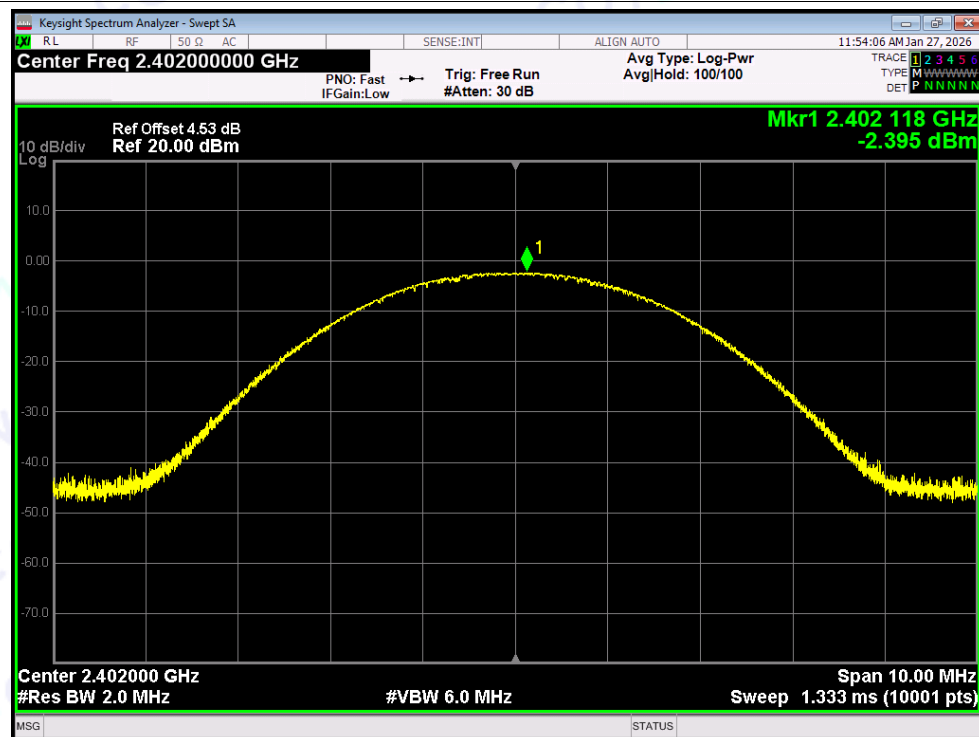
Power NVNT 1-DH5 2441MHz Ant1



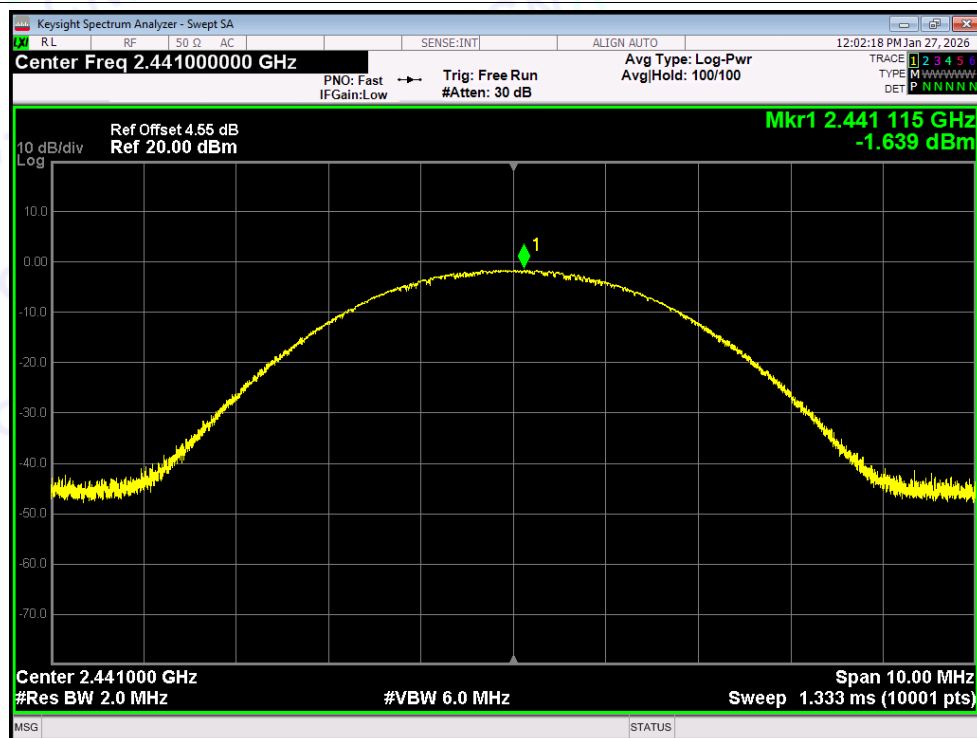
Power NVNT 1-DH5 2480MHz Ant1



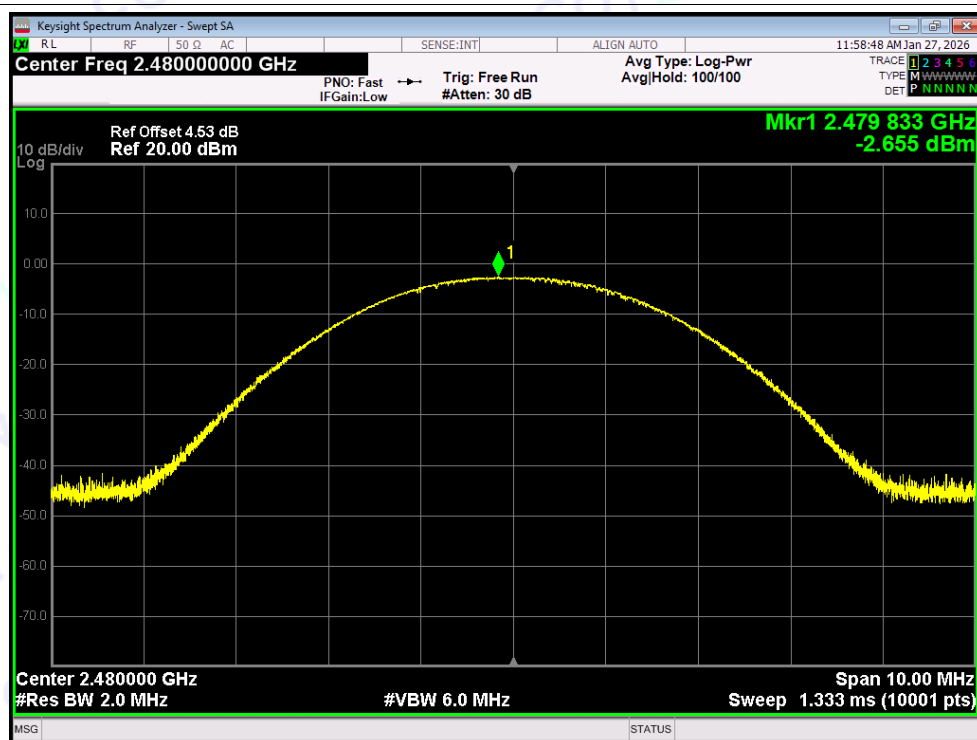
Power NVNT 2-DH5 2402MHz Ant1



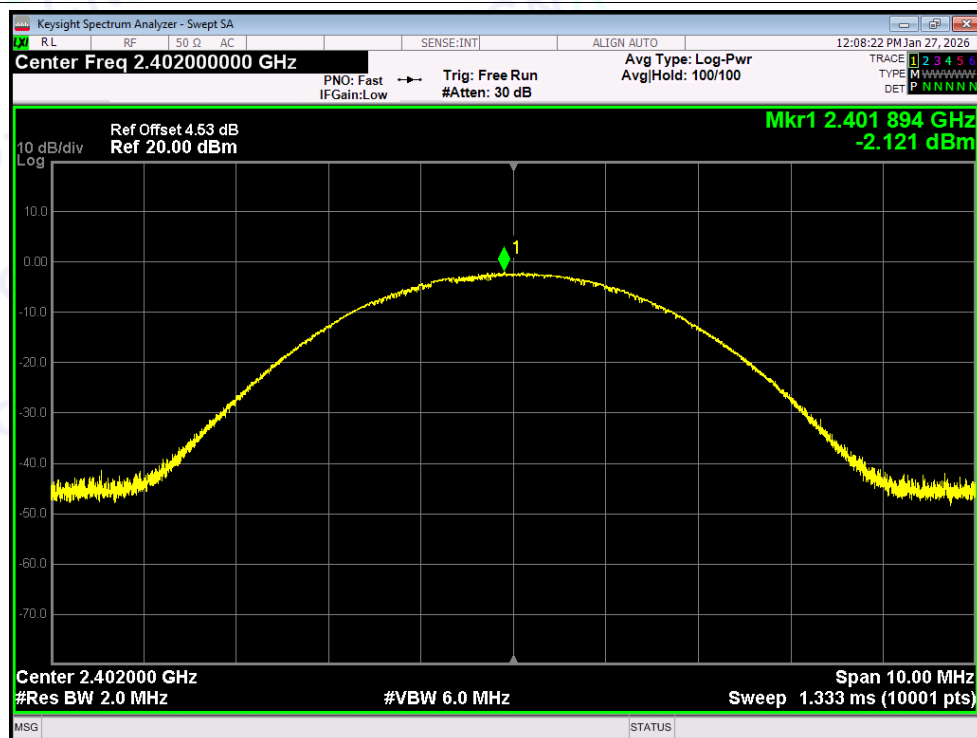
Power NVNT 2-DH5 2441MHz Ant1



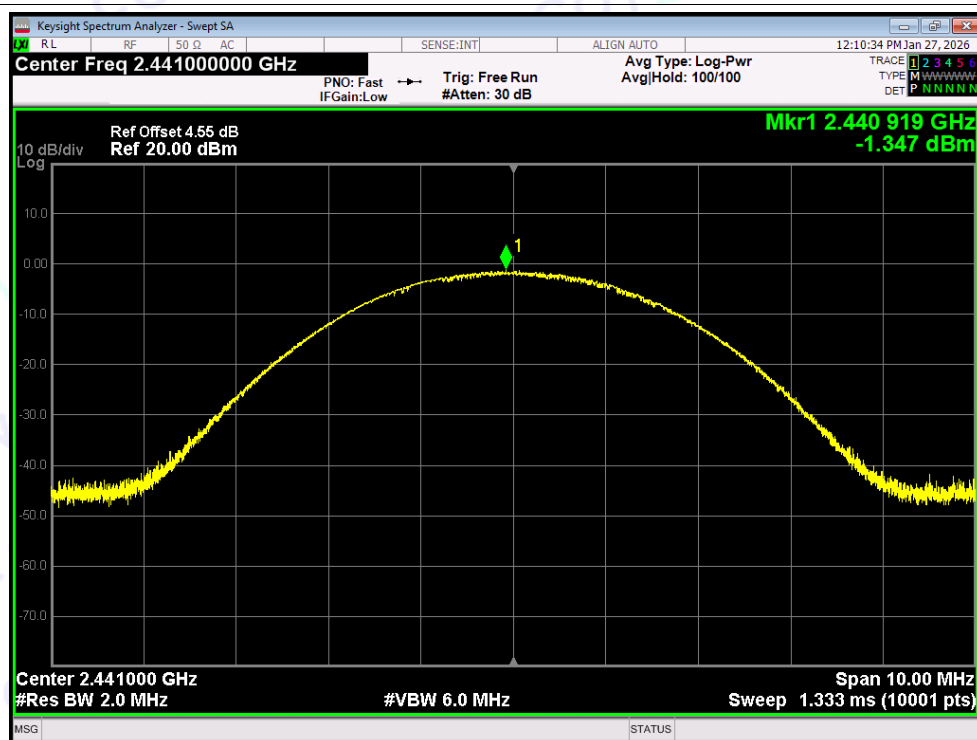
Power NVNT 2-DH5 2480MHz Ant1

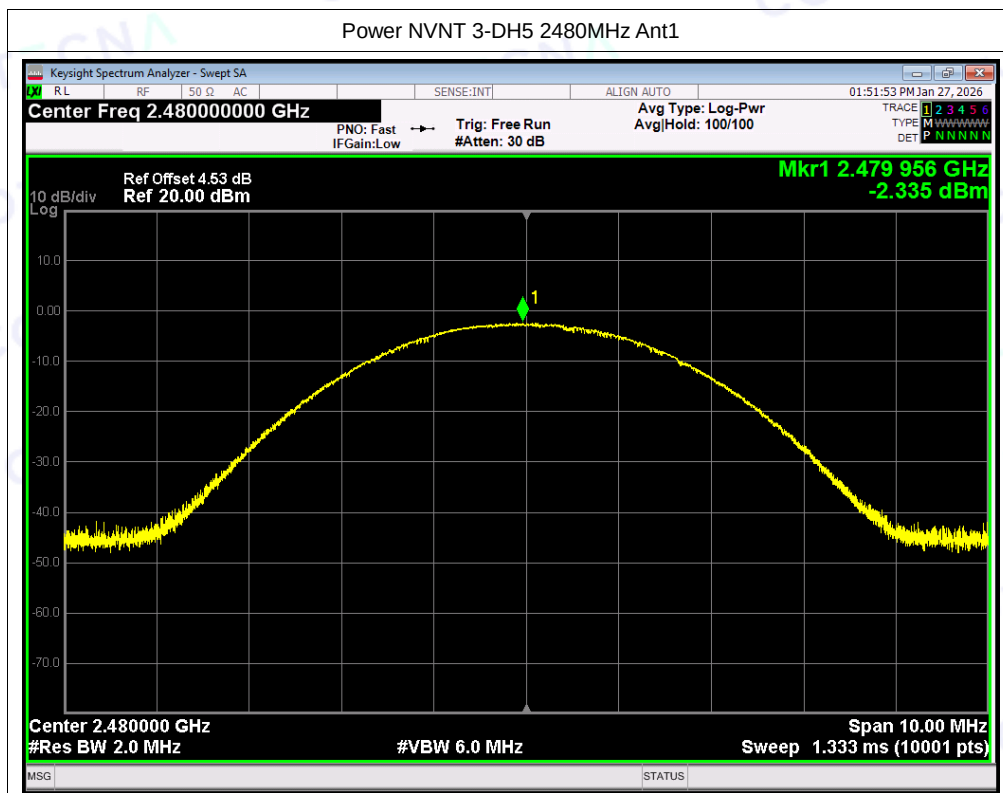


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1



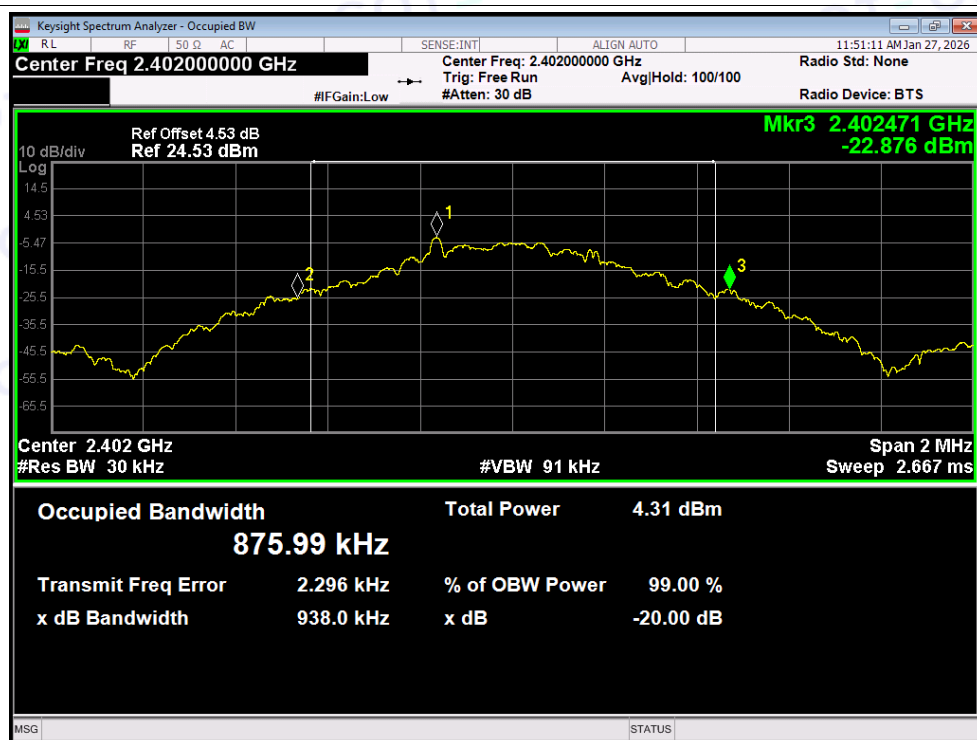


4. -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.94	----	Pass
NVNT	1-DH5	2441	Ant1	0.96	----	Pass
NVNT	1-DH5	2480	Ant1	0.95	----	Pass
NVNT	2-DH5	2402	Ant1	1.30	----	Pass
NVNT	2-DH5	2441	Ant1	1.23	----	Pass
NVNT	2-DH5	2480	Ant1	1.31	----	Pass
NVNT	3-DH5	2402	Ant1	1.26	----	Pass
NVNT	3-DH5	2441	Ant1	1.20	----	Pass
NVNT	3-DH5	2480	Ant1	1.24	----	Pass

Test Graphs

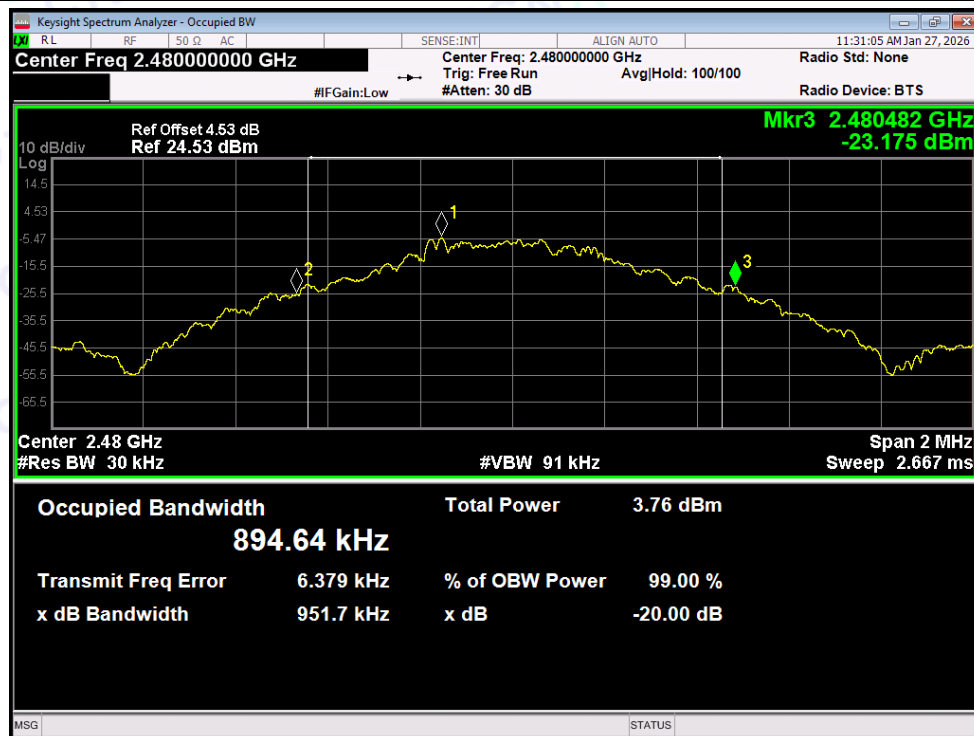
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



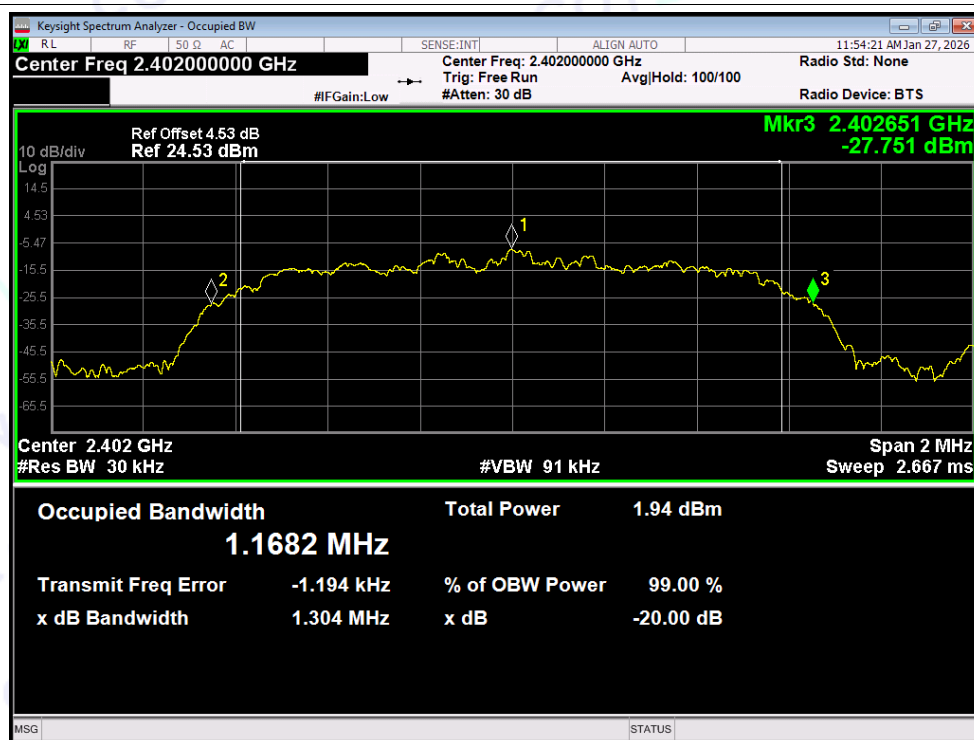
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



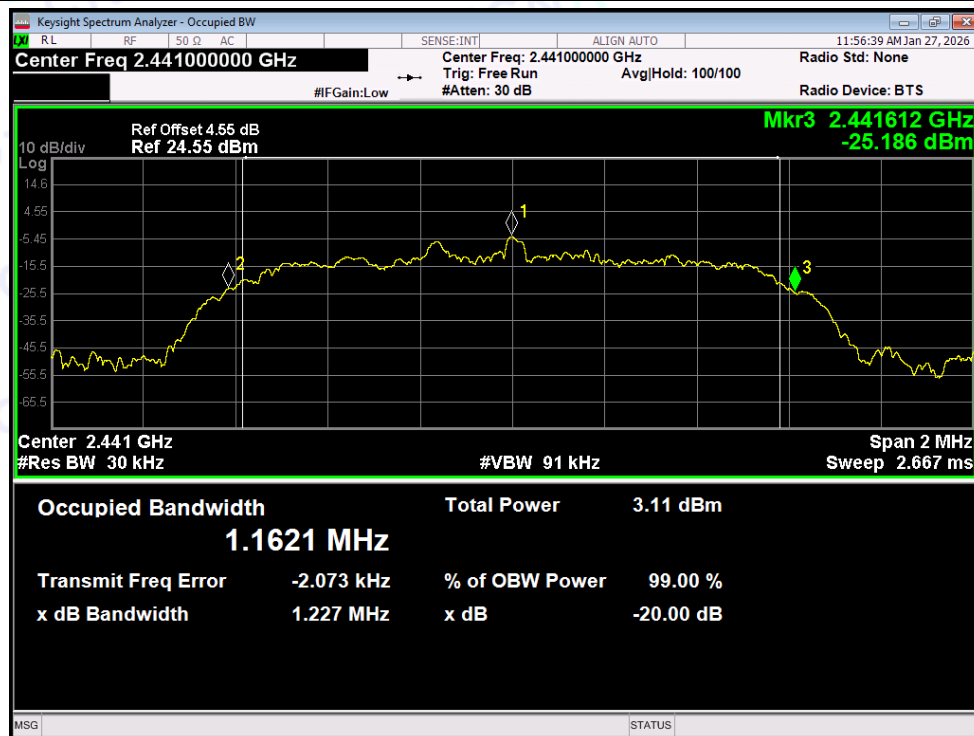
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



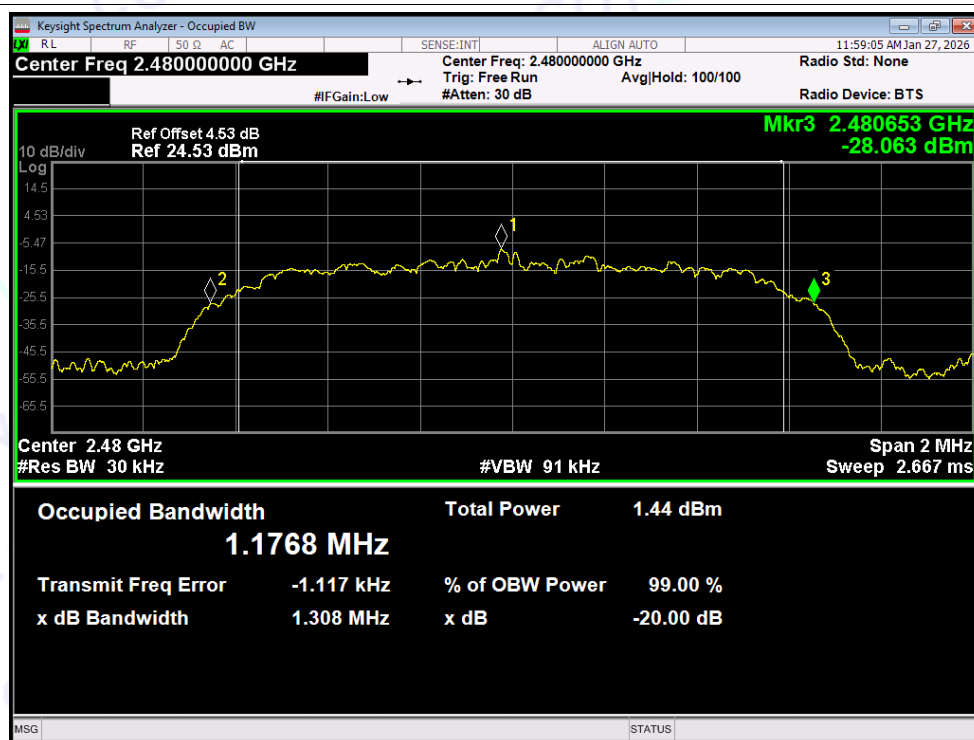
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



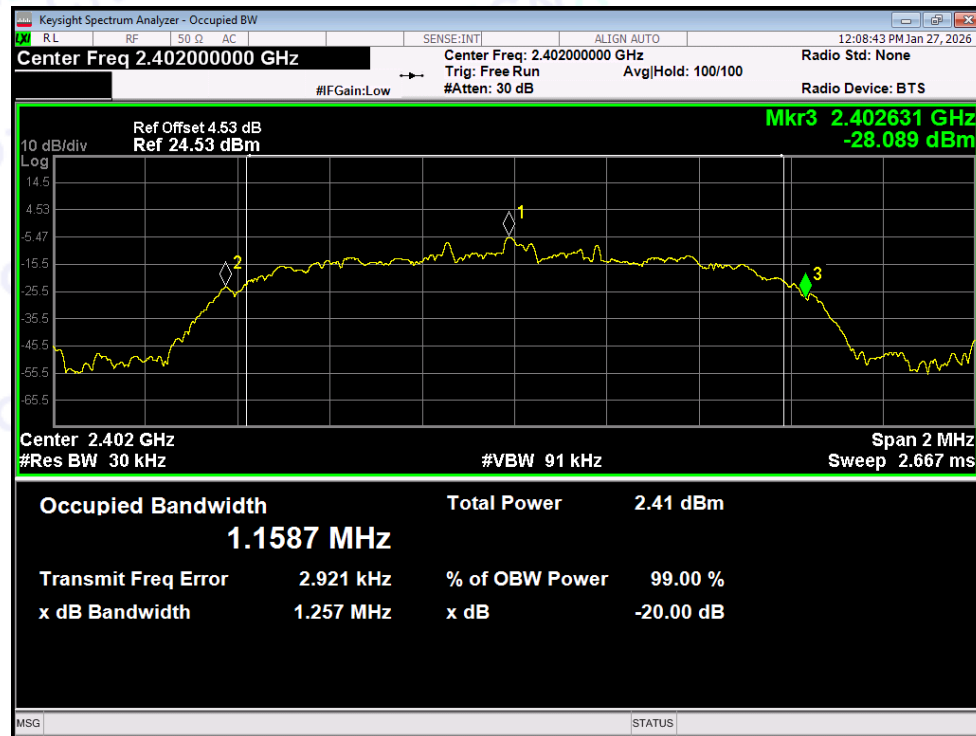
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



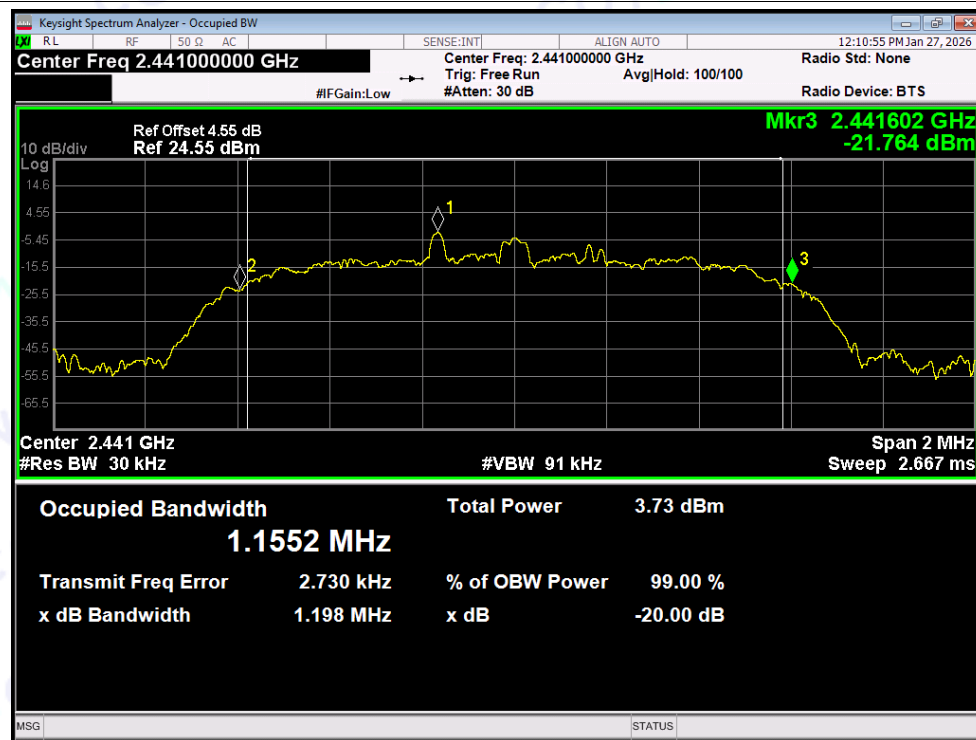
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

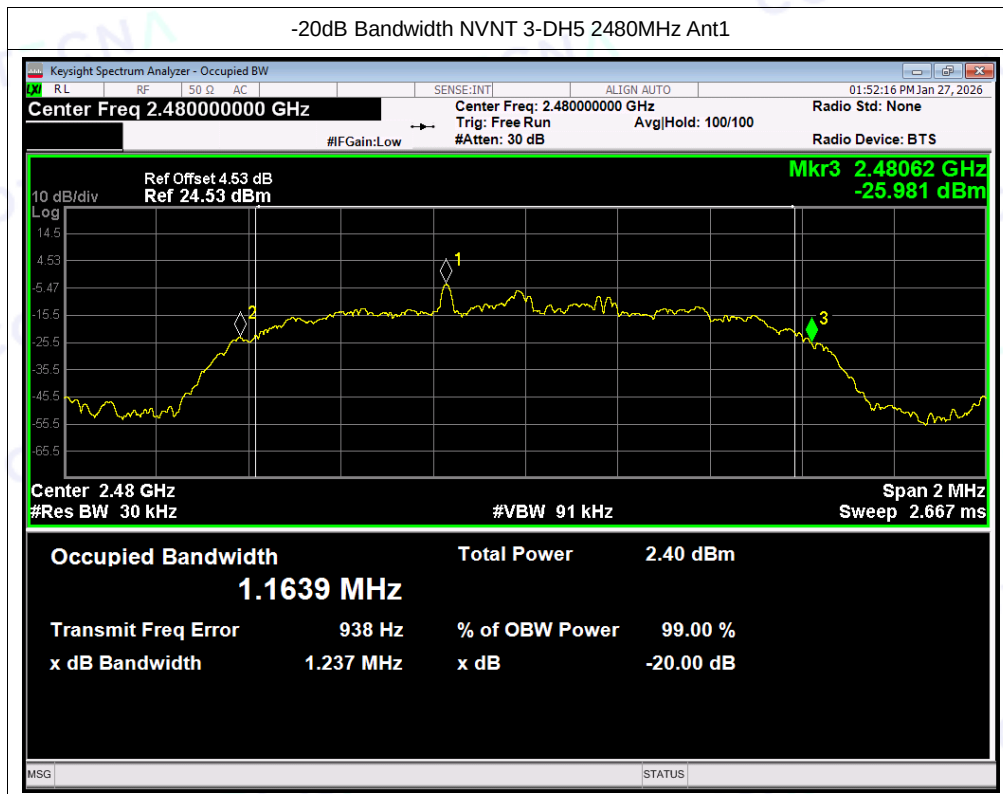


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



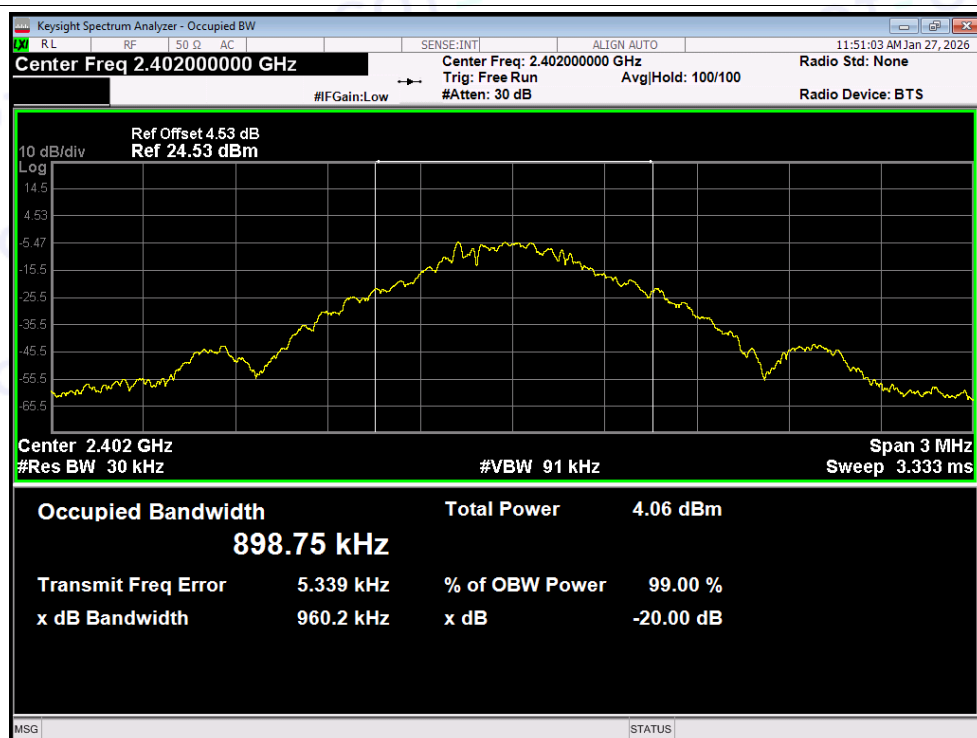


5. Occupied Channel Bandwidth

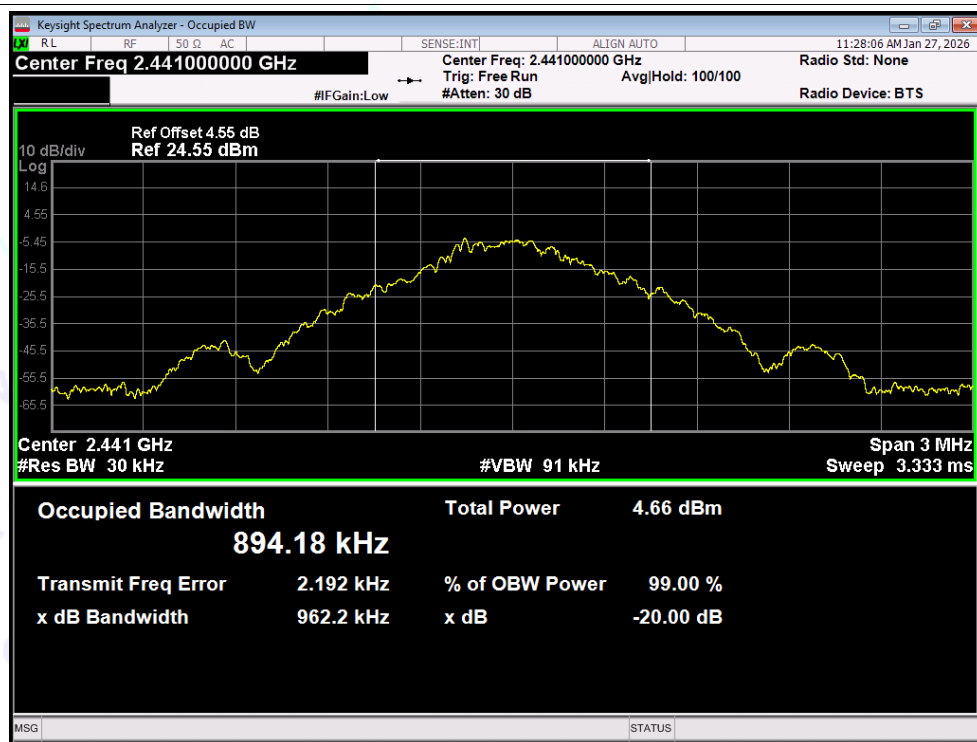
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.899
NVNT	1-DH5	2441	Ant1	0.894
NVNT	1-DH5	2480	Ant1	0.887
NVNT	2-DH5	2402	Ant1	1.162
NVNT	2-DH5	2441	Ant1	1.169
NVNT	2-DH5	2480	Ant1	1.166
NVNT	3-DH5	2402	Ant1	1.170
NVNT	3-DH5	2441	Ant1	1.192
NVNT	3-DH5	2480	Ant1	1.158

Test Graphs

OBW NVNT 1-DH5 2402MHz Ant1



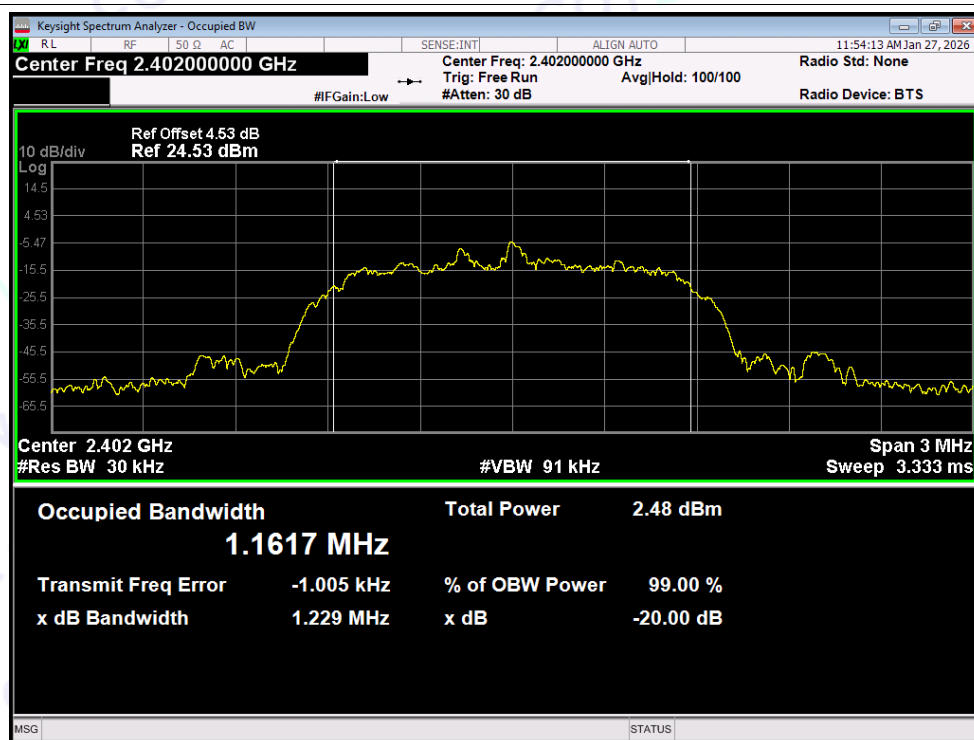
OBW NVNT 1-DH5 2441MHz Ant1



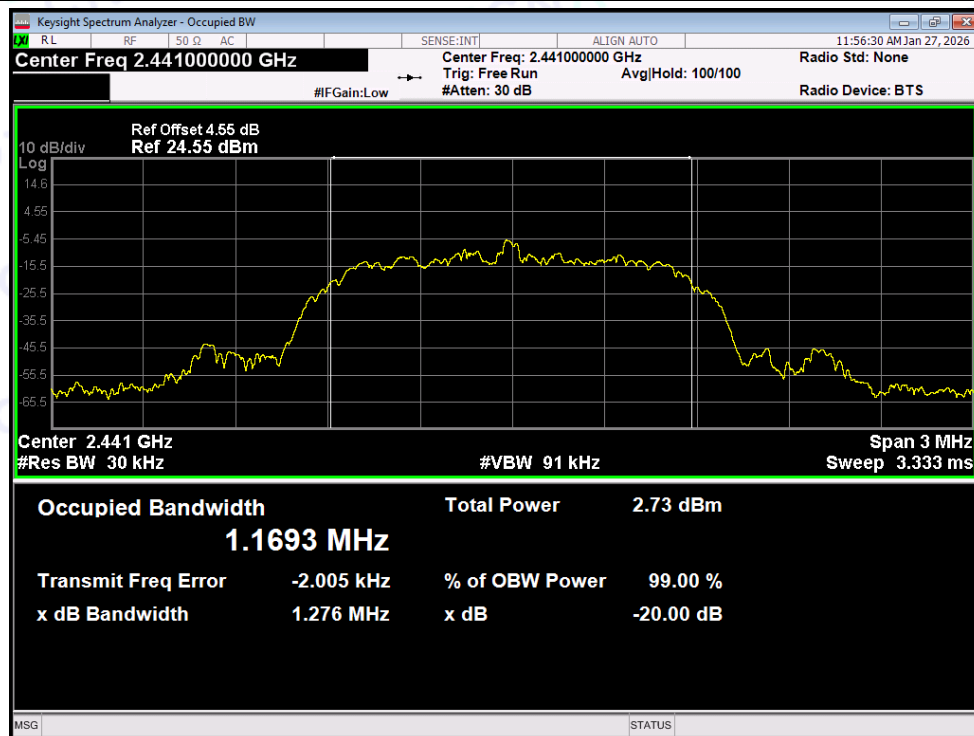
OBW NVNT 1-DH5 2480MHz Ant1



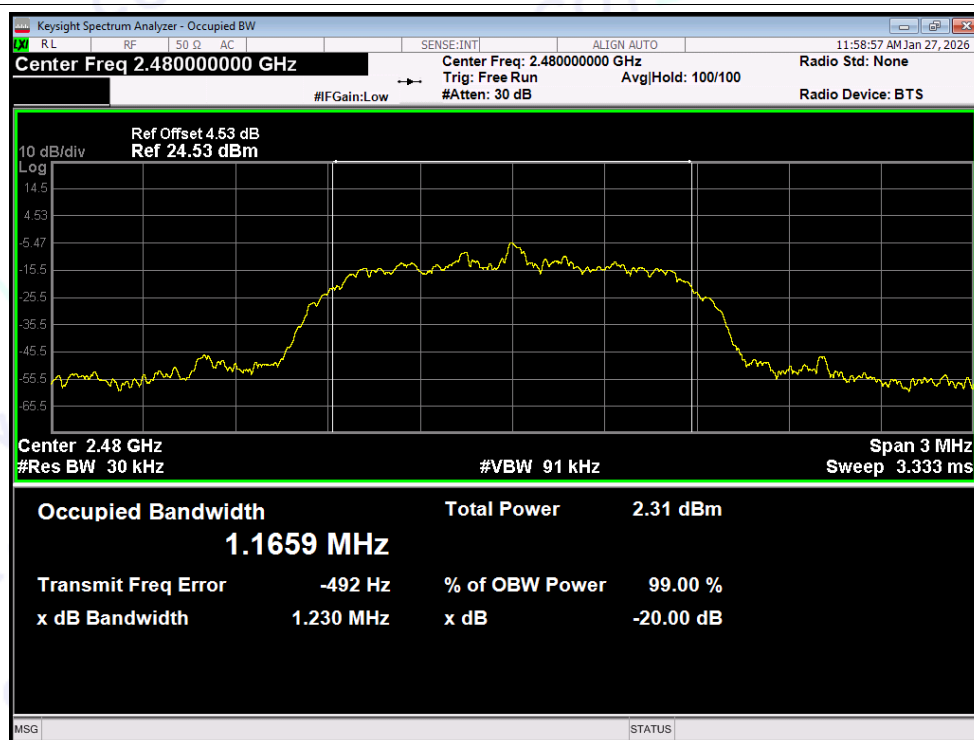
OBW NVNT 2-DH5 2402MHz Ant1



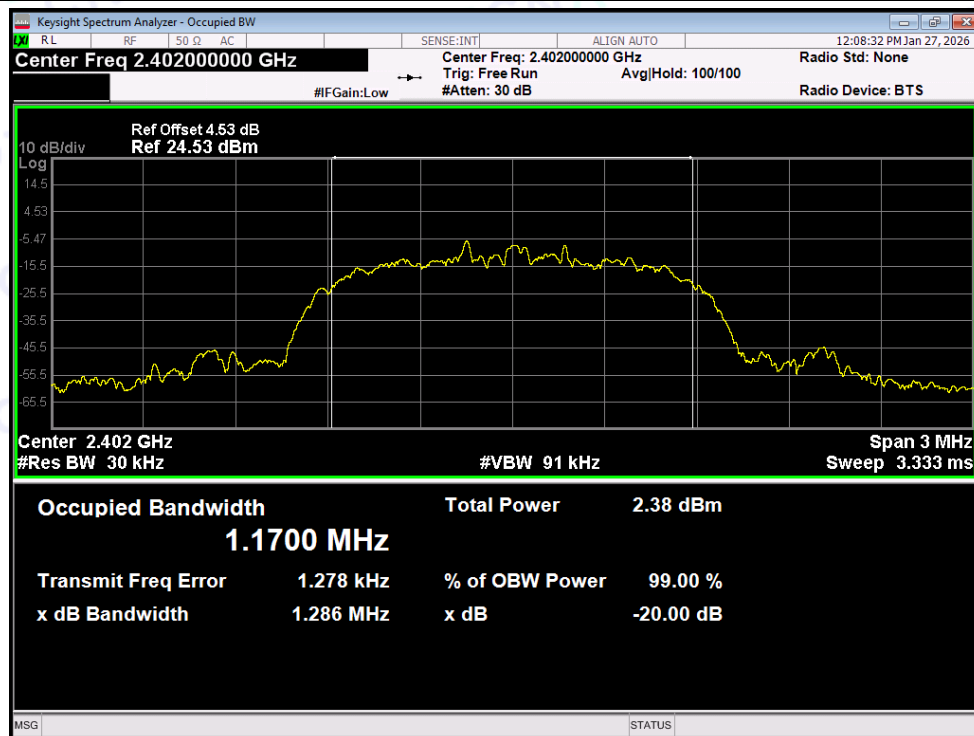
OBW NVNT 2-DH5 2441MHz Ant1



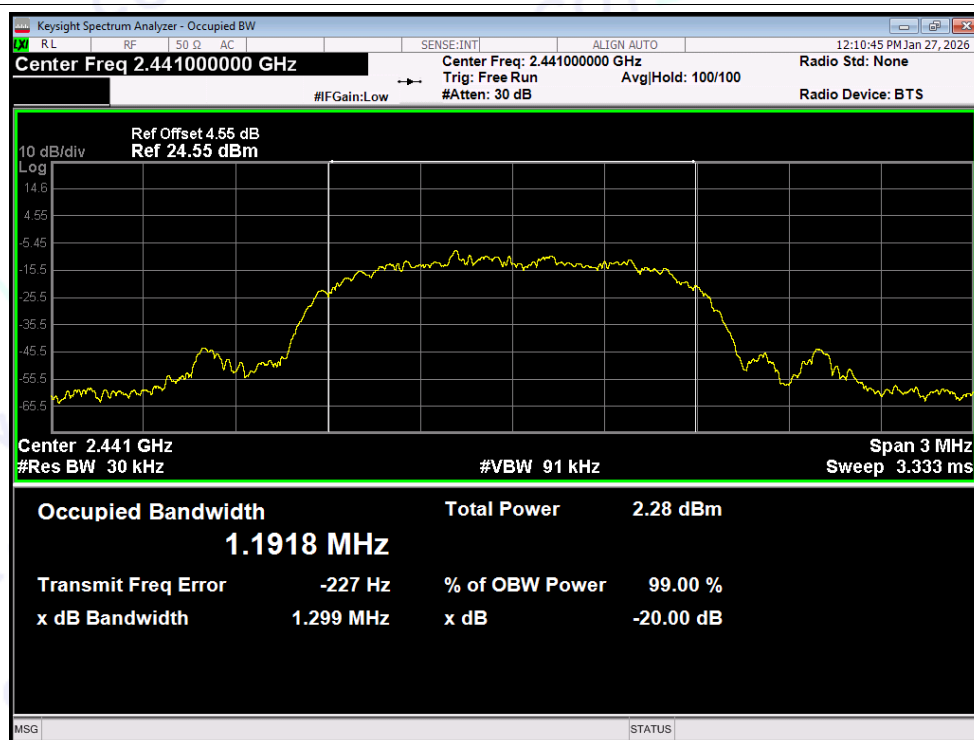
OBW NVNT 2-DH5 2480MHz Ant1

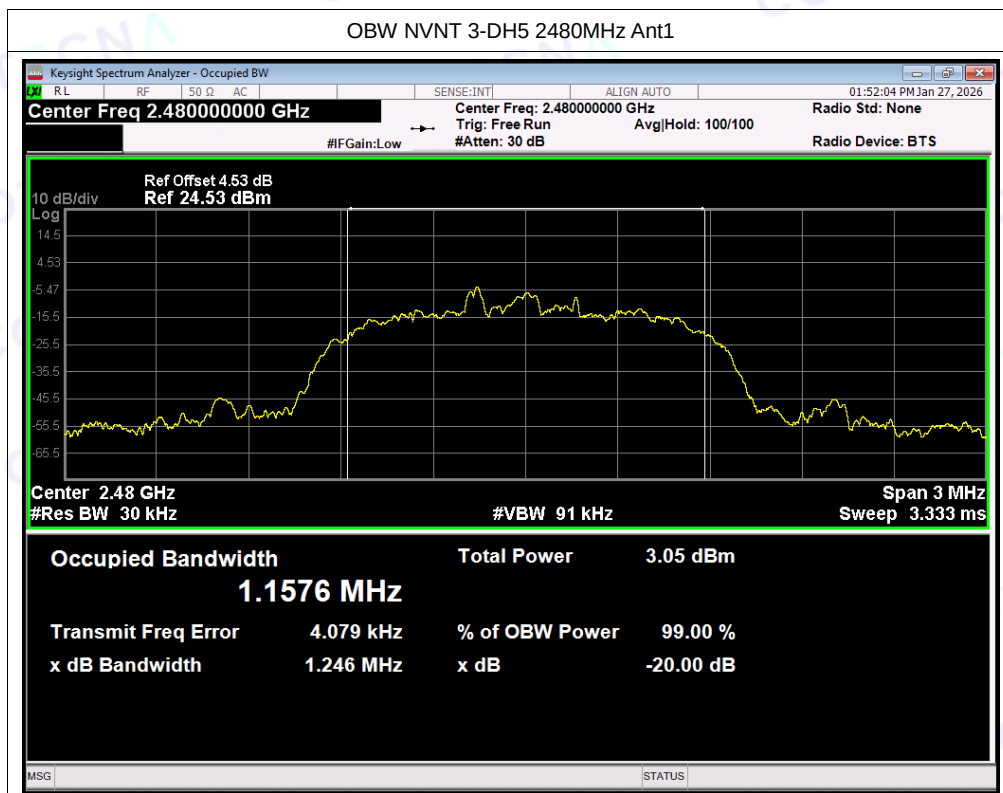


OBW NVNT 3-DH5 2402MHz Ant1



OBW NVNT 3-DH5 2441MHz Ant1



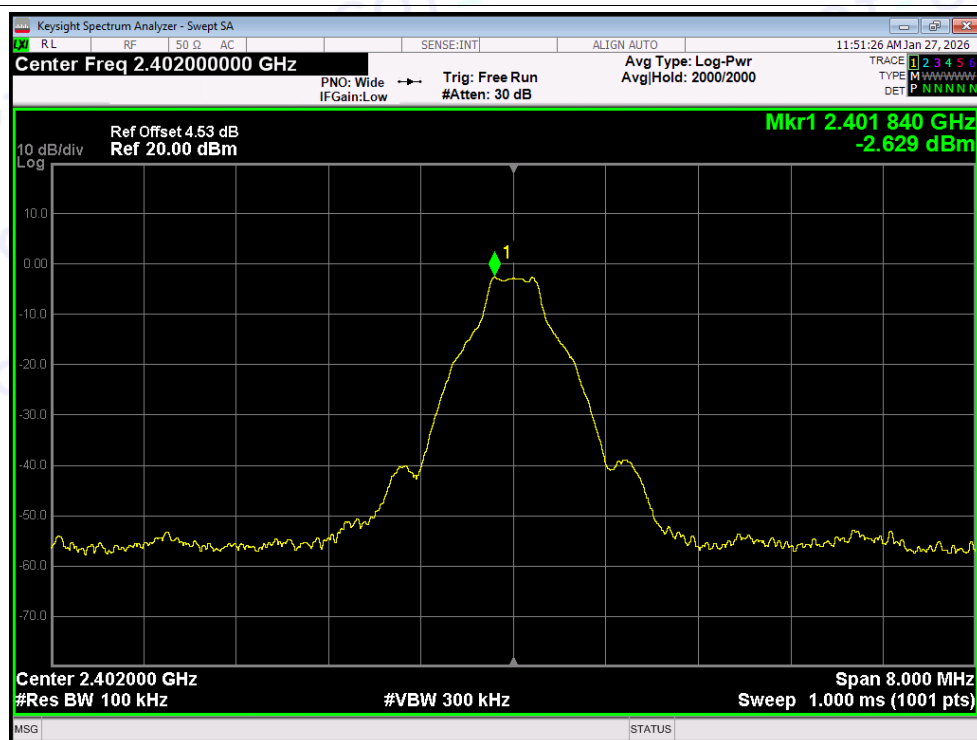


6. Band Edge

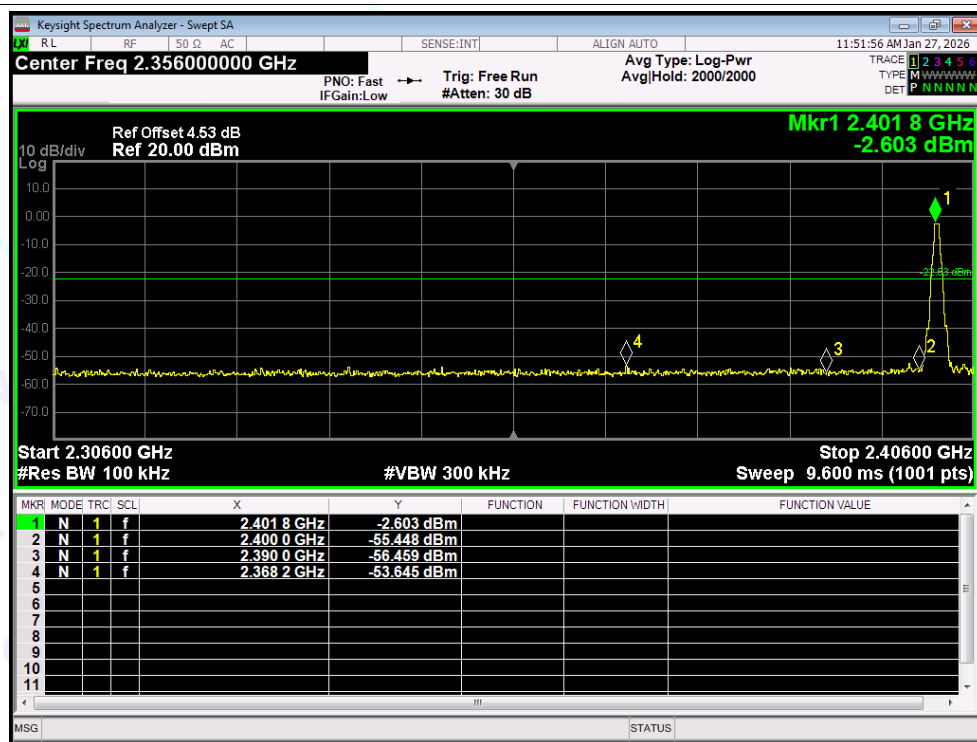
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-51.01	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-50.87	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-50.53	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-49.58	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-48.64	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-51.53	-20	Pass

Test Graphs

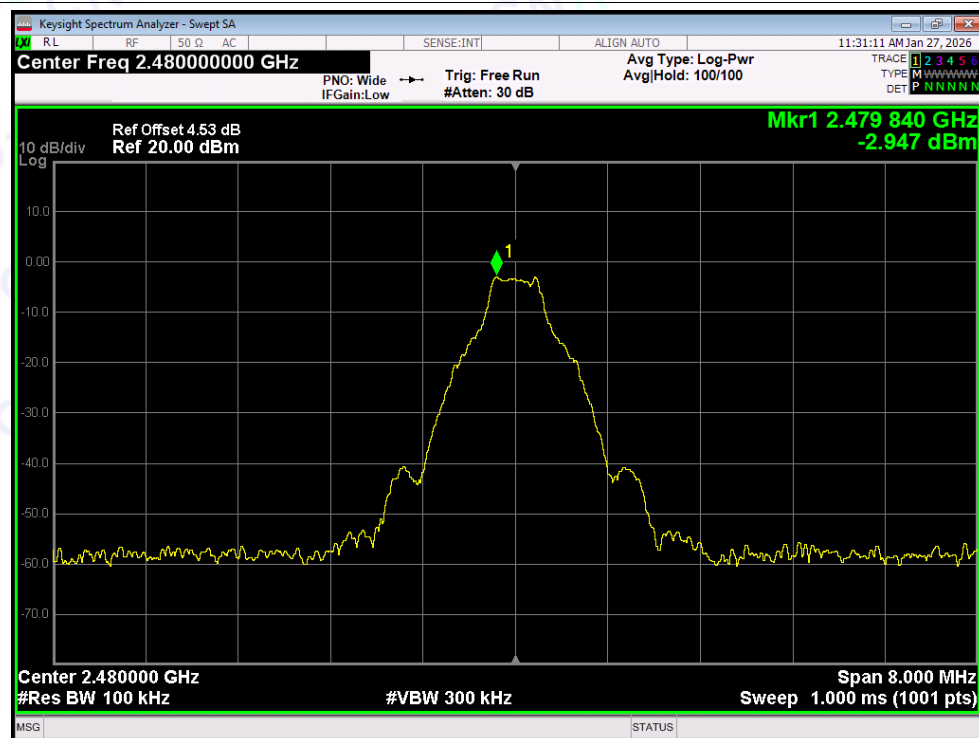
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



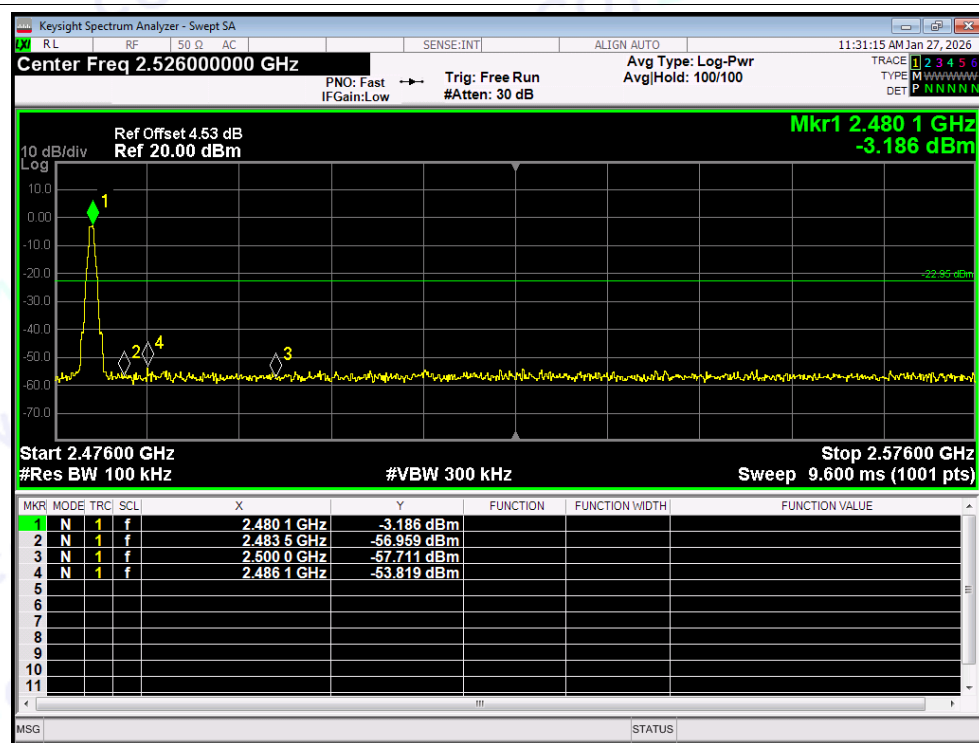
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



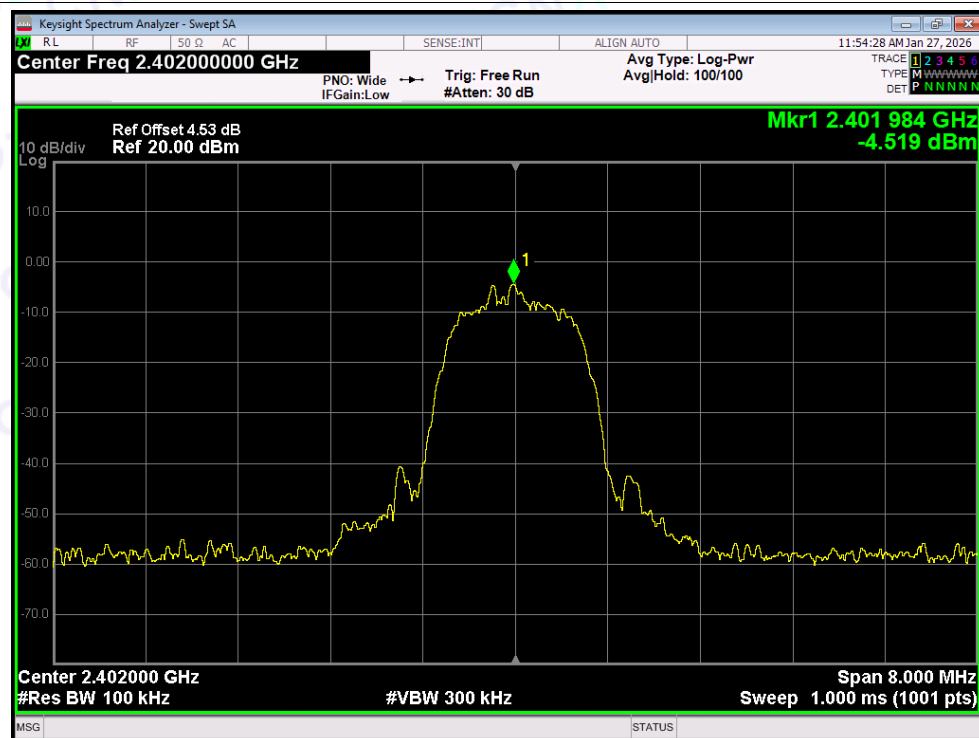
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



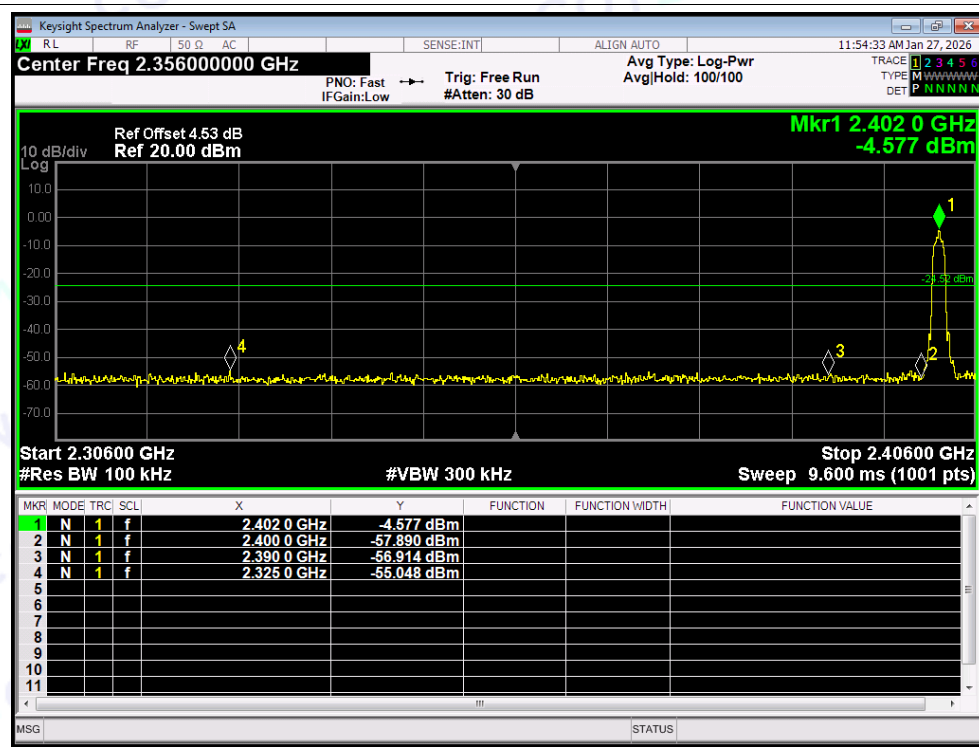
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



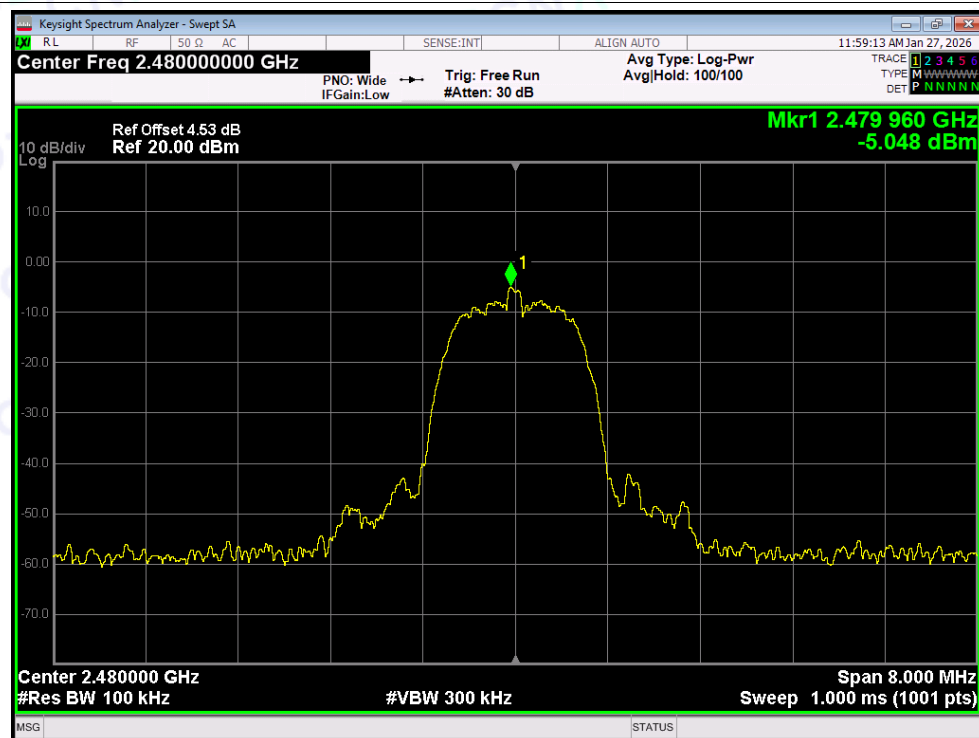
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



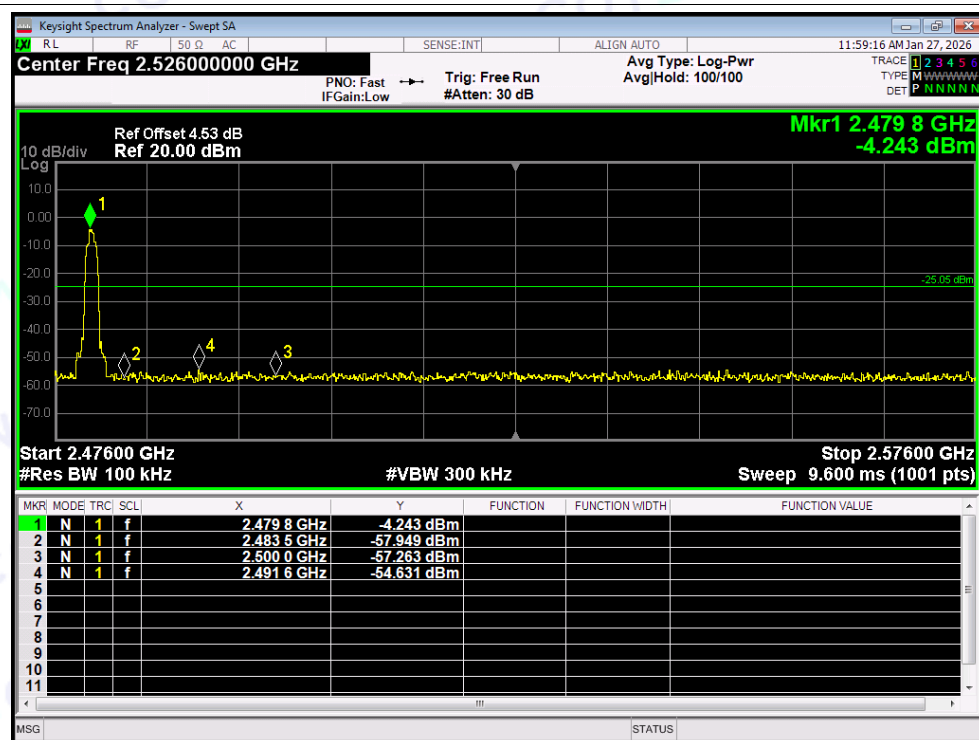
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



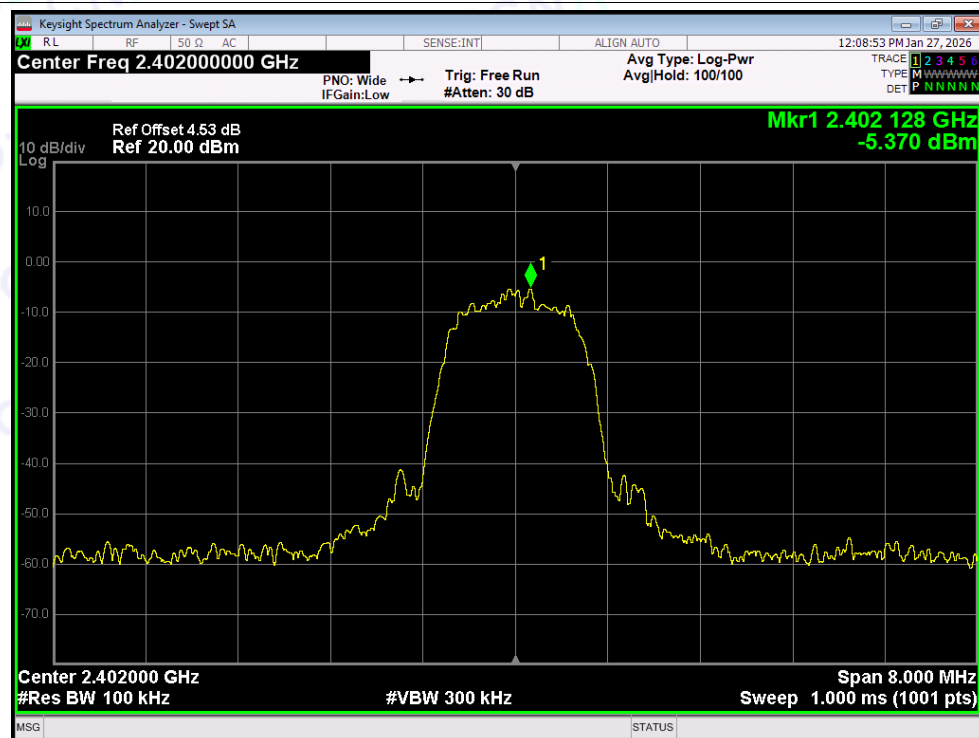
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



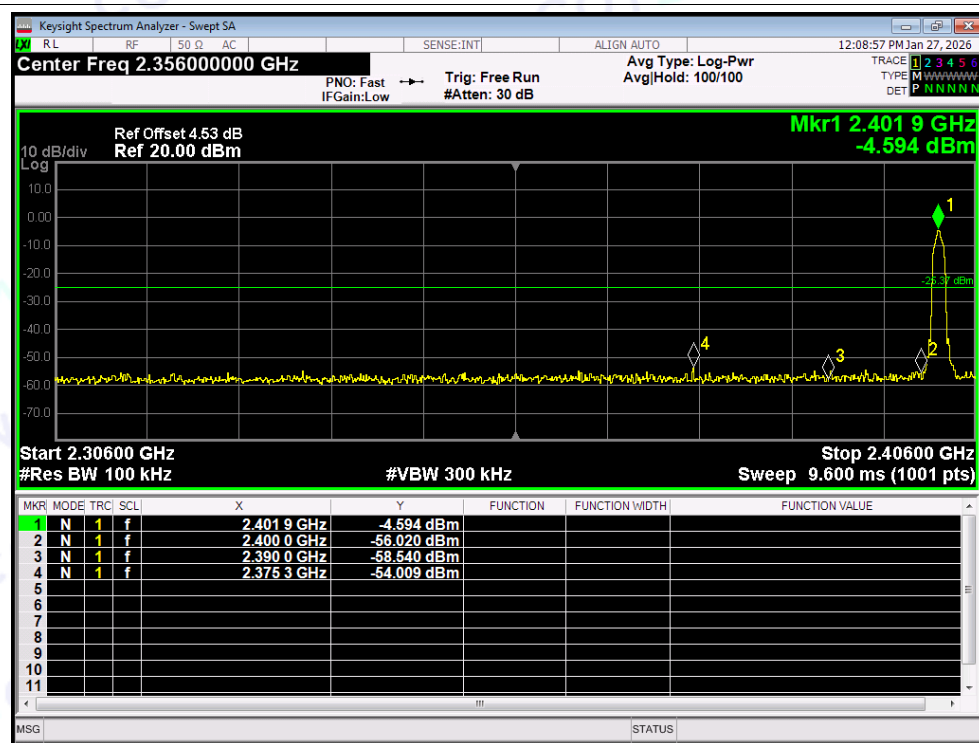
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



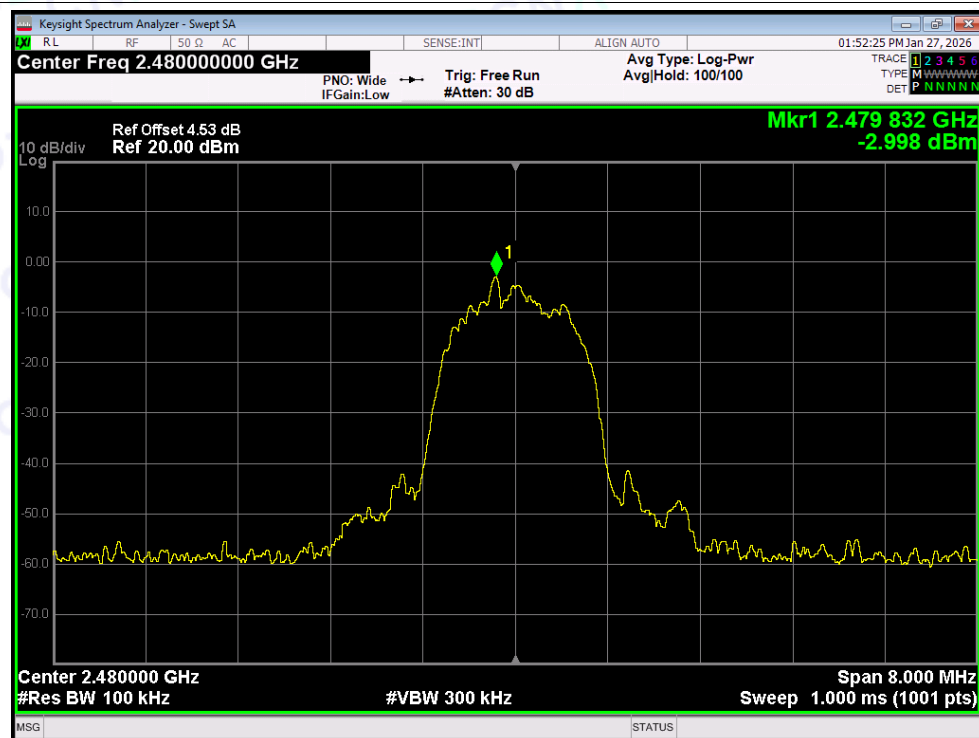
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



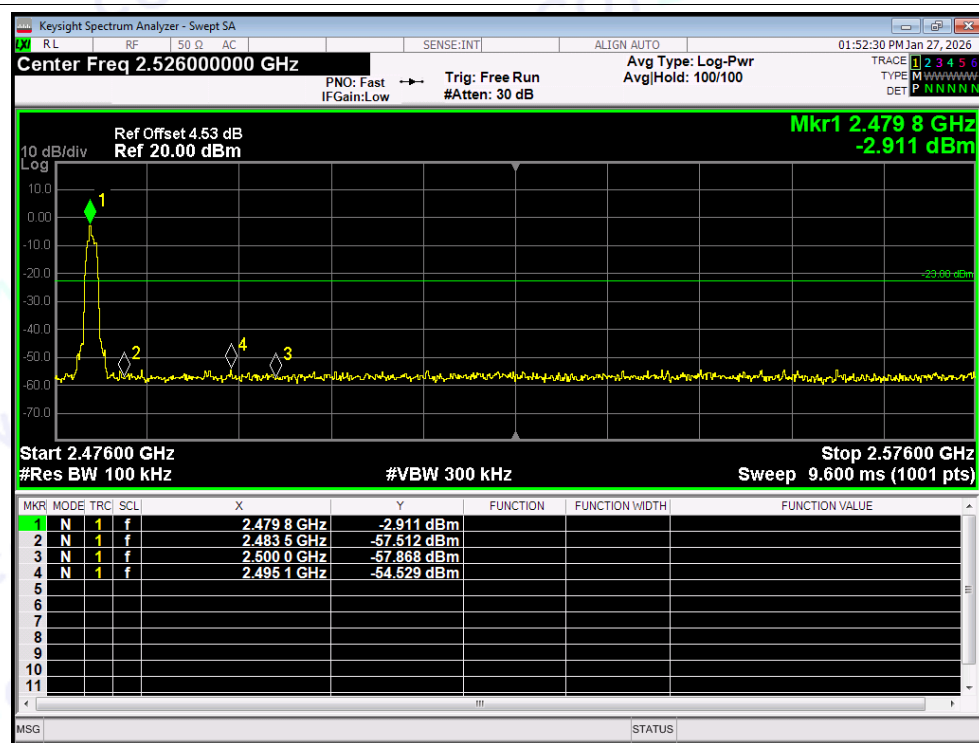
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



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



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

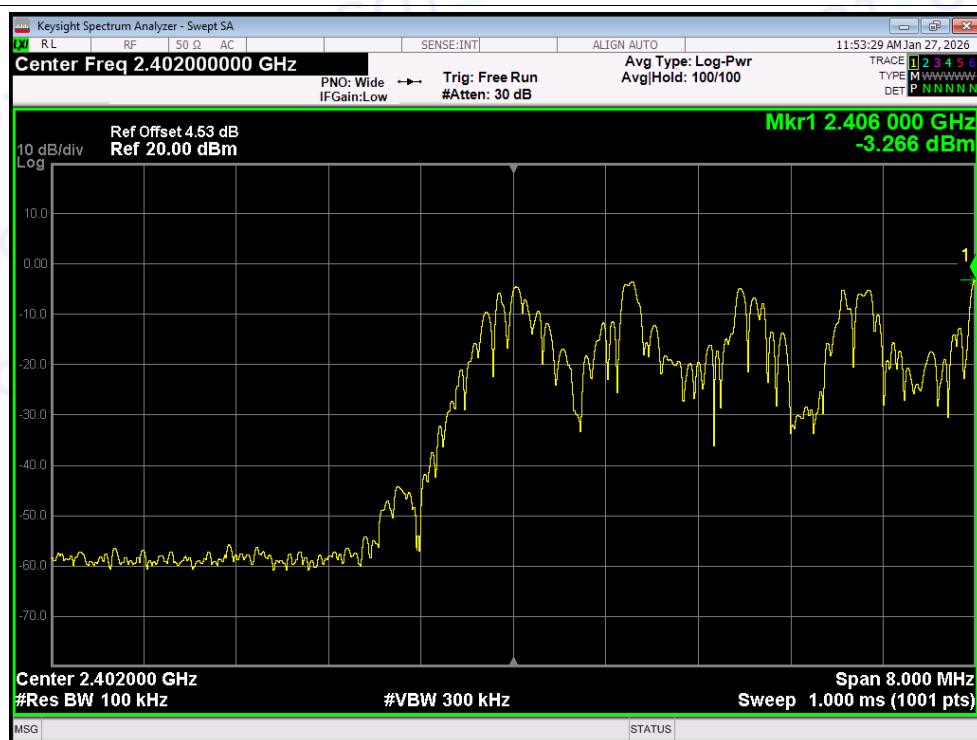


7. Band Edge(Hopping)

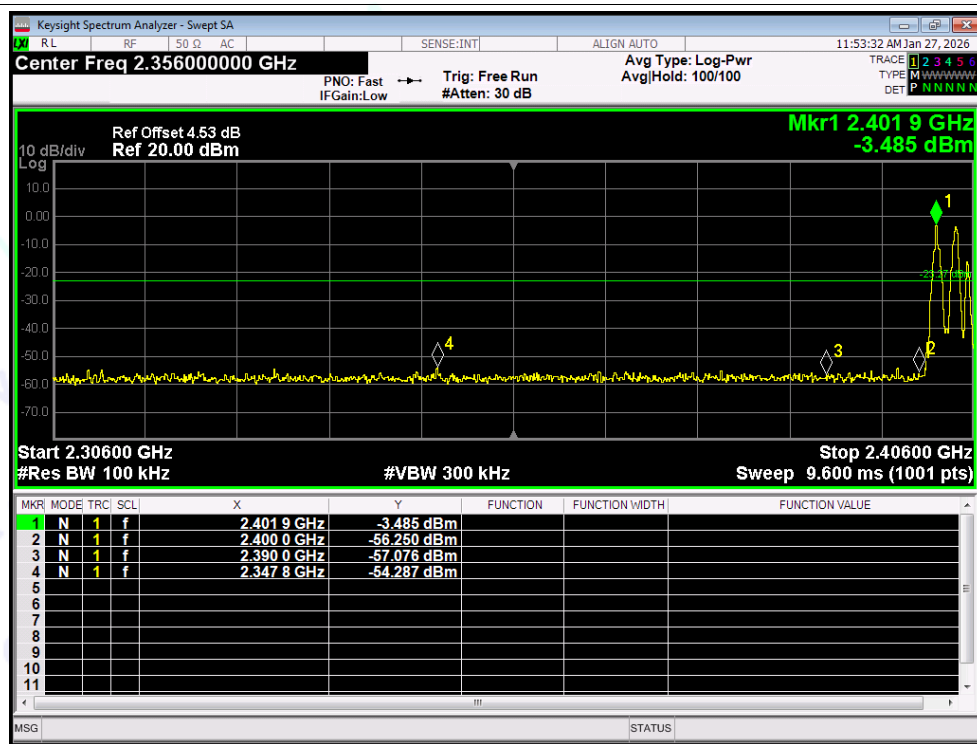
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-51.02	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-50.30	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-50.85	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-49.98	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-51.31	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-50.86	-20	Pass

Test Graphs

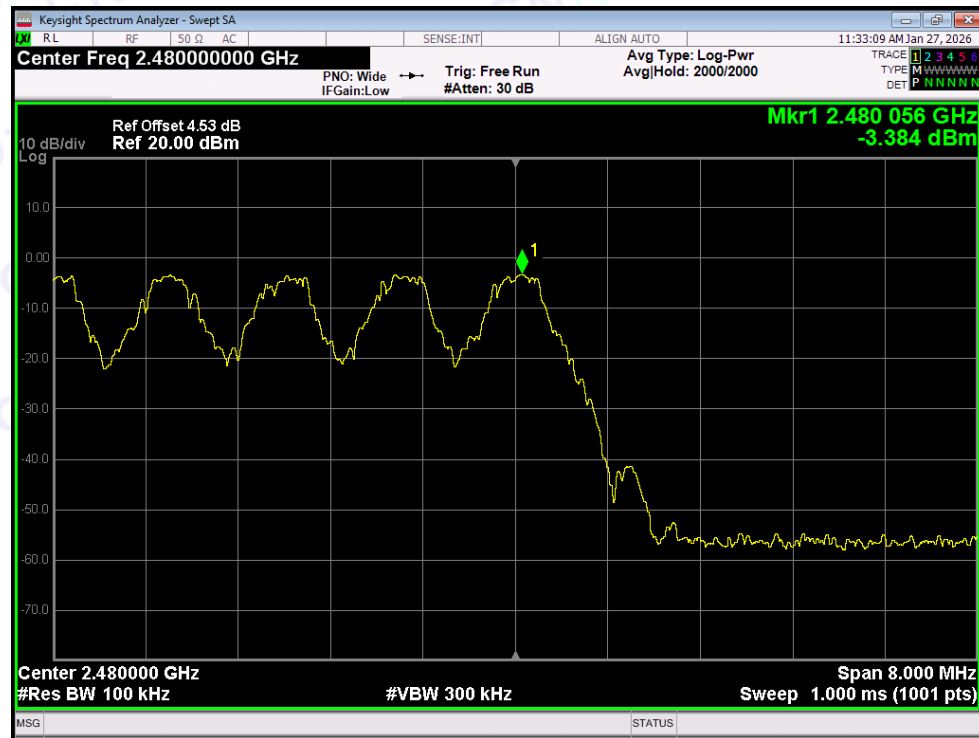
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



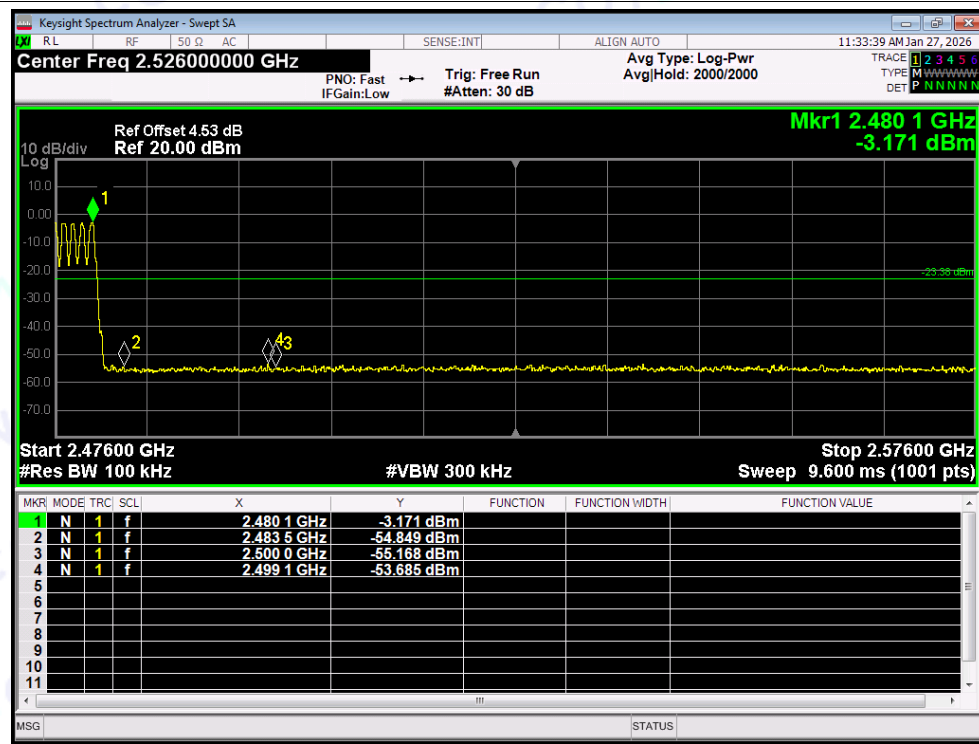
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



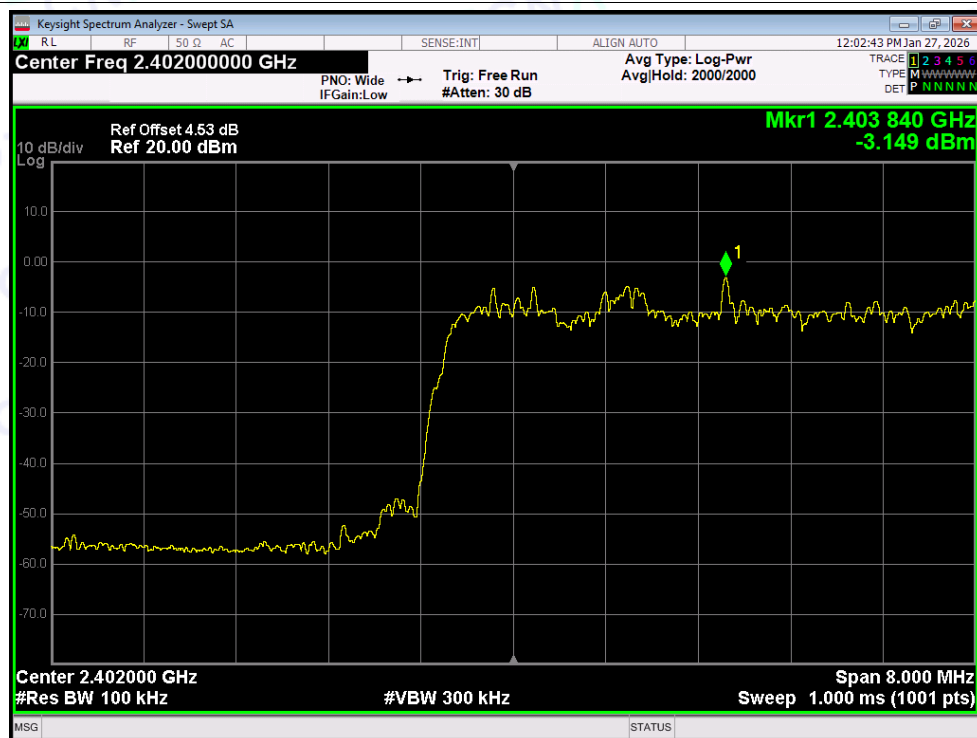
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



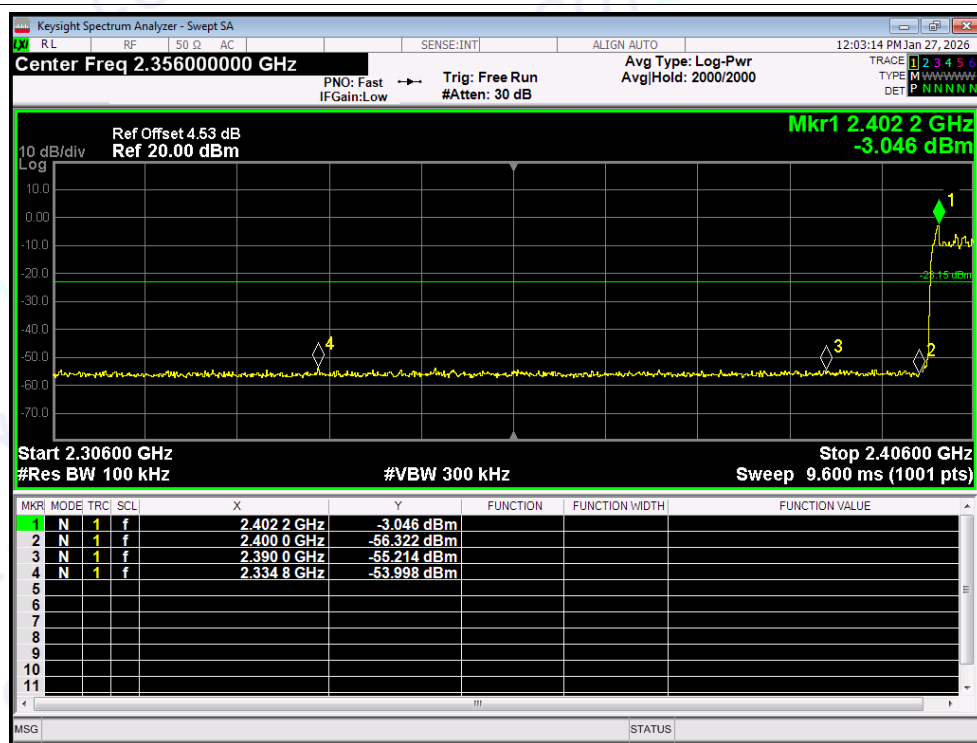
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



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



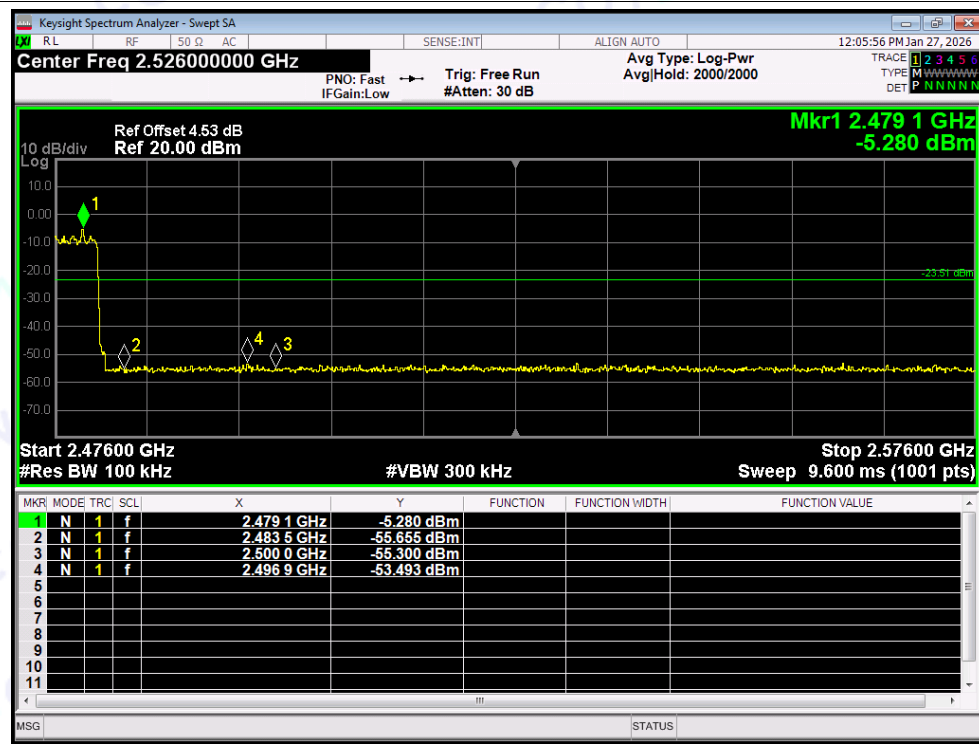
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



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



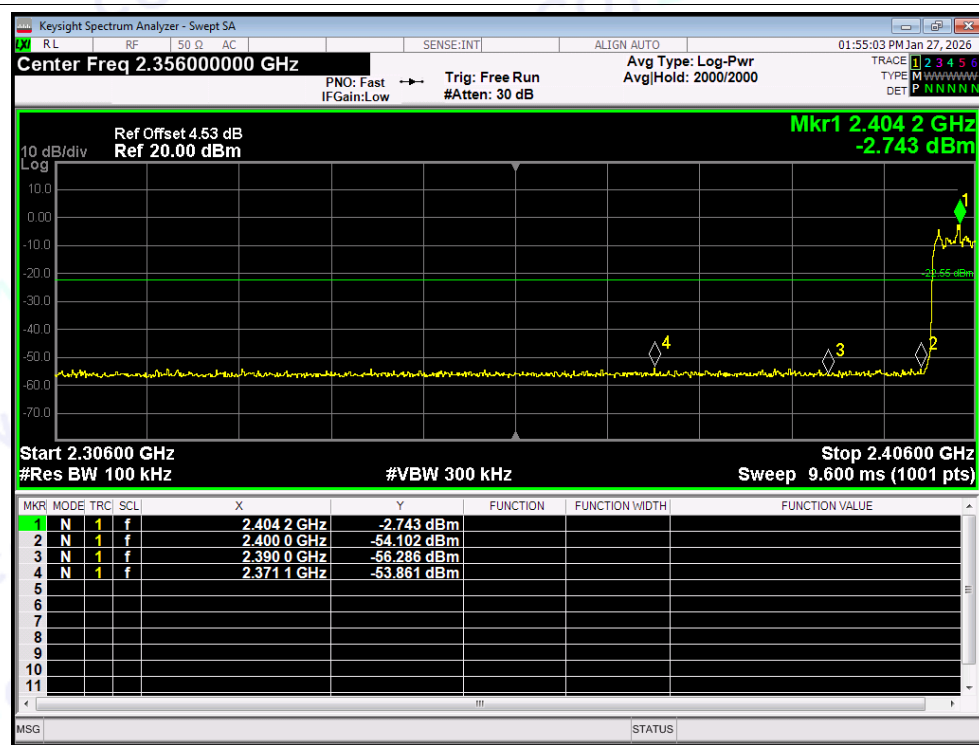
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



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



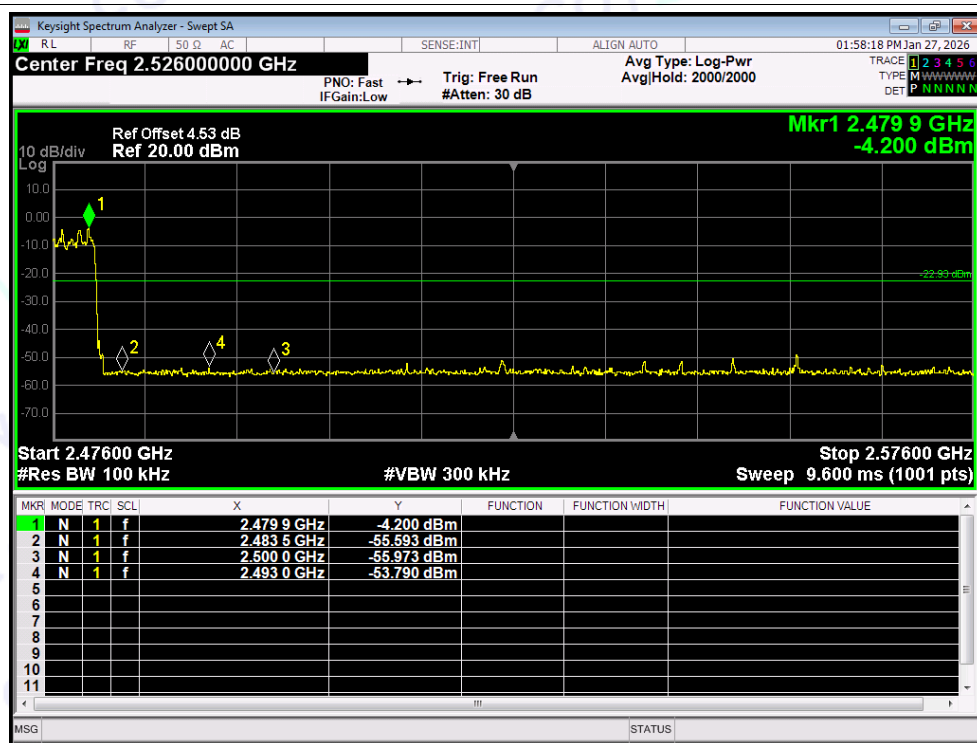
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



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



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

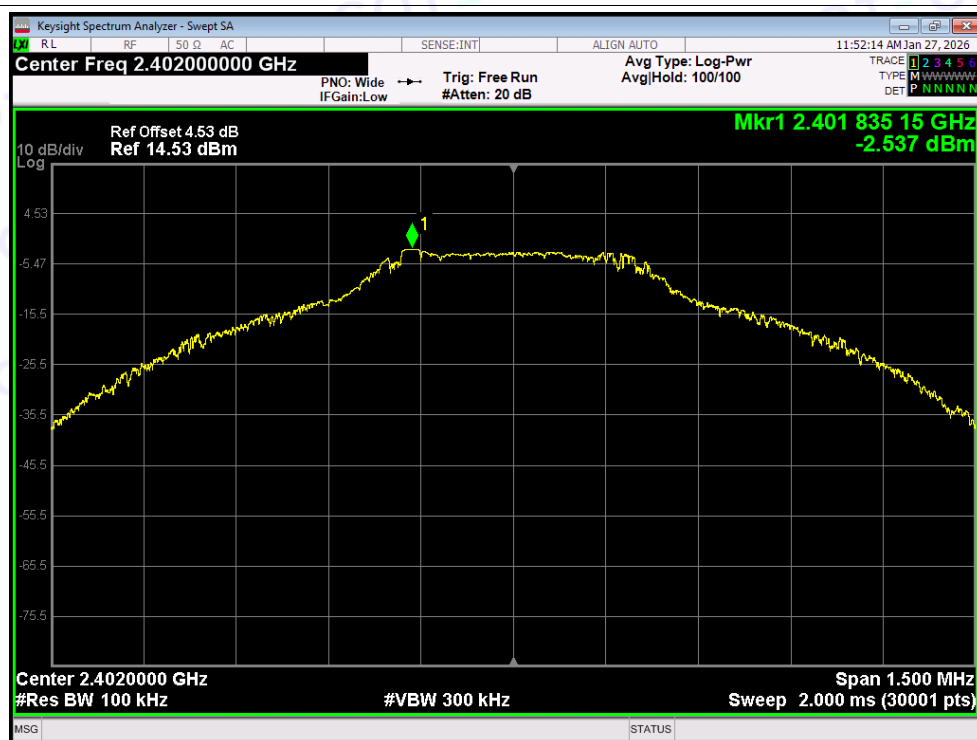


8. Conducted RF Spurious Emission

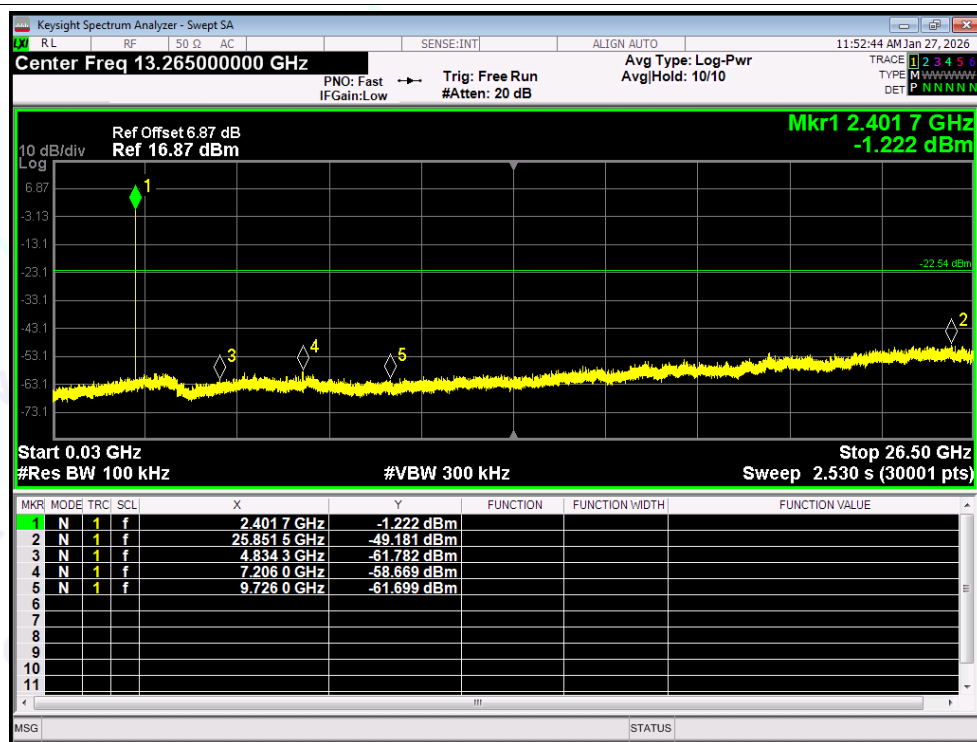
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-46.64	-20	Pass
NVNT	1-DH5	2441	Ant1	-47.03	-20	Pass
NVNT	1-DH5	2480	Ant1	-46.01	-20	Pass
NVNT	2-DH5	2402	Ant1	-45.46	-20	Pass
NVNT	2-DH5	2441	Ant1	-47.06	-20	Pass
NVNT	2-DH5	2480	Ant1	-44.85	-20	Pass
NVNT	3-DH5	2402	Ant1	-45.02	-20	Pass
NVNT	3-DH5	2441	Ant1	-47.18	-20	Pass
NVNT	3-DH5	2480	Ant1	-46.69	-20	Pass

Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



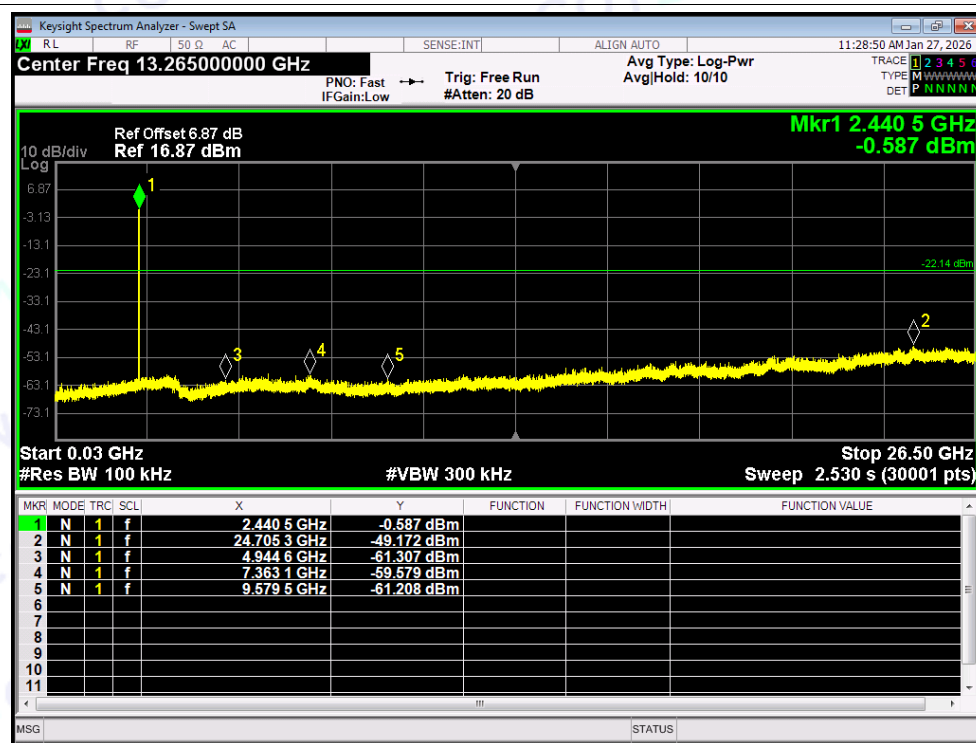
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



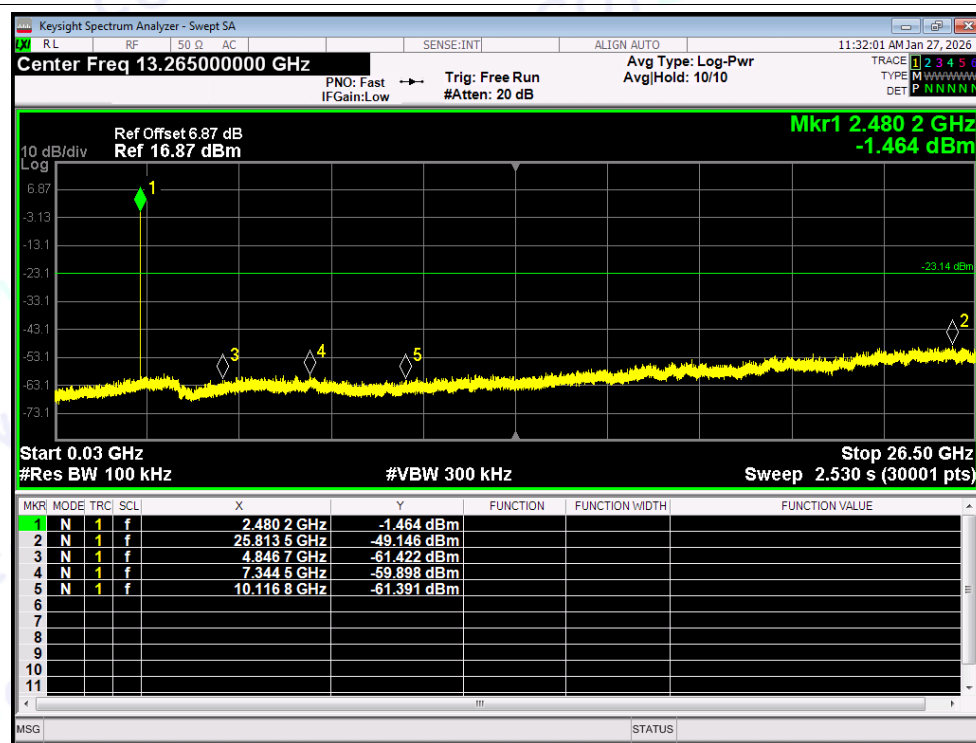
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



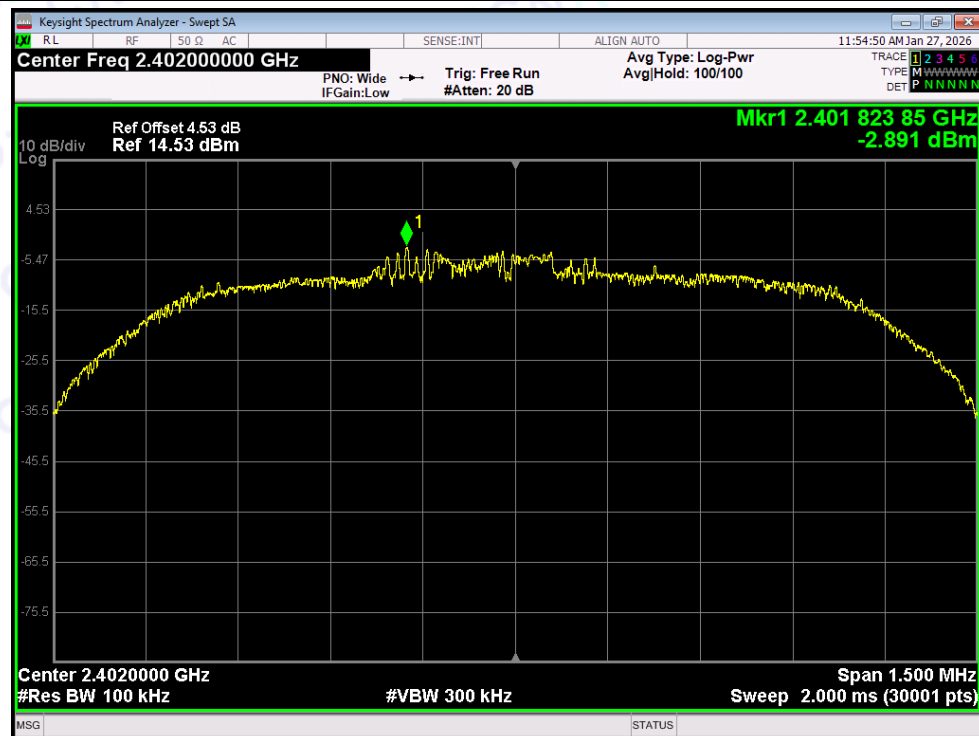
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



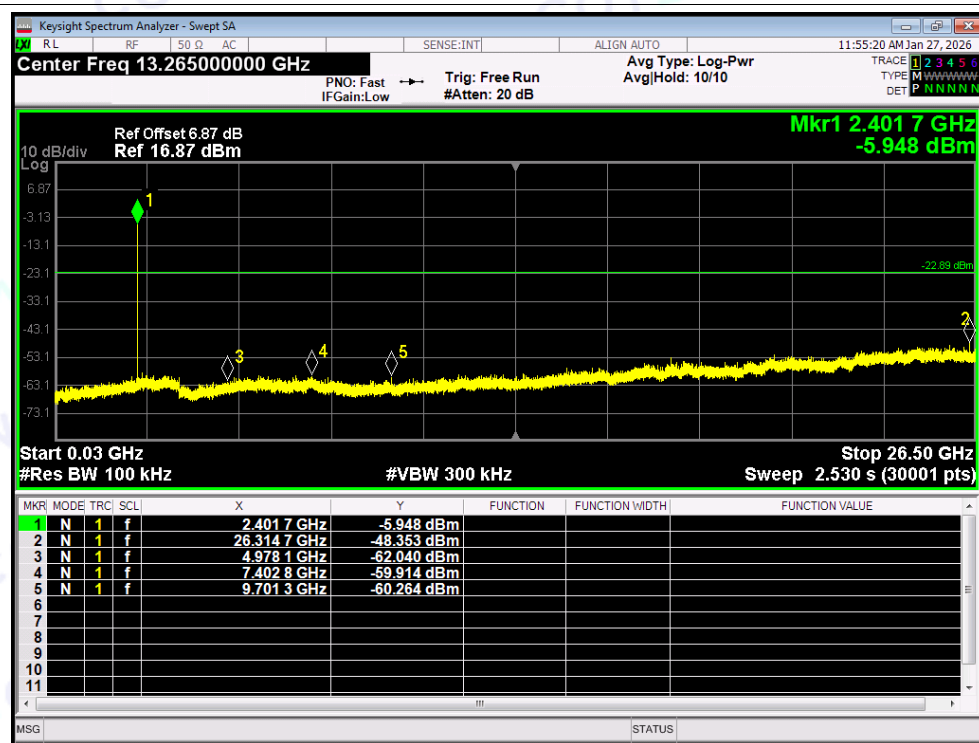
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



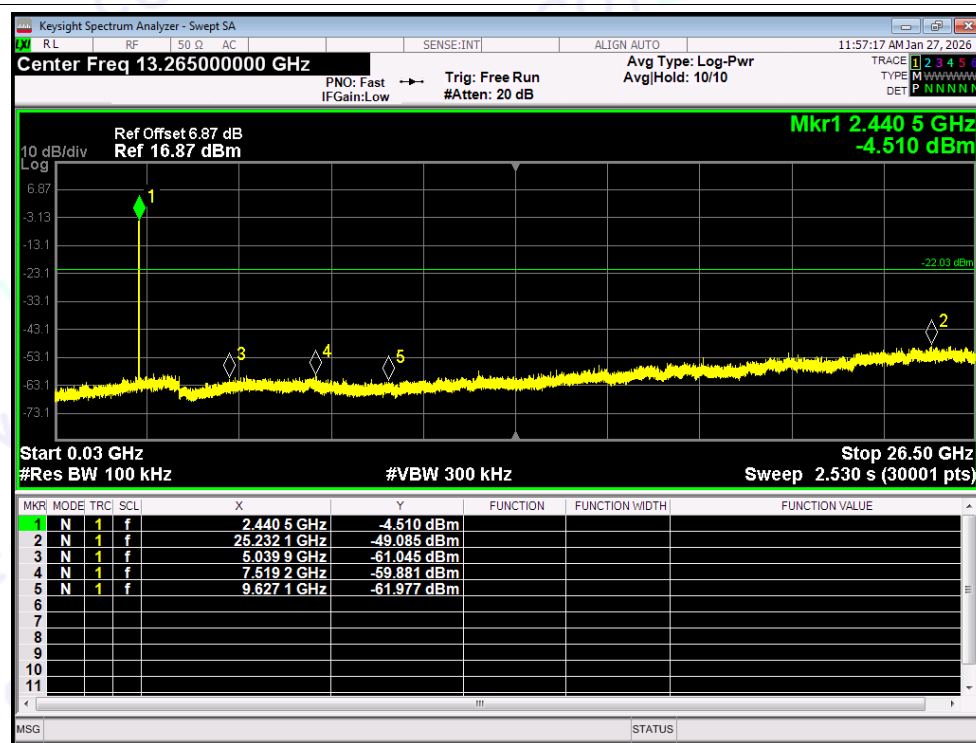
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



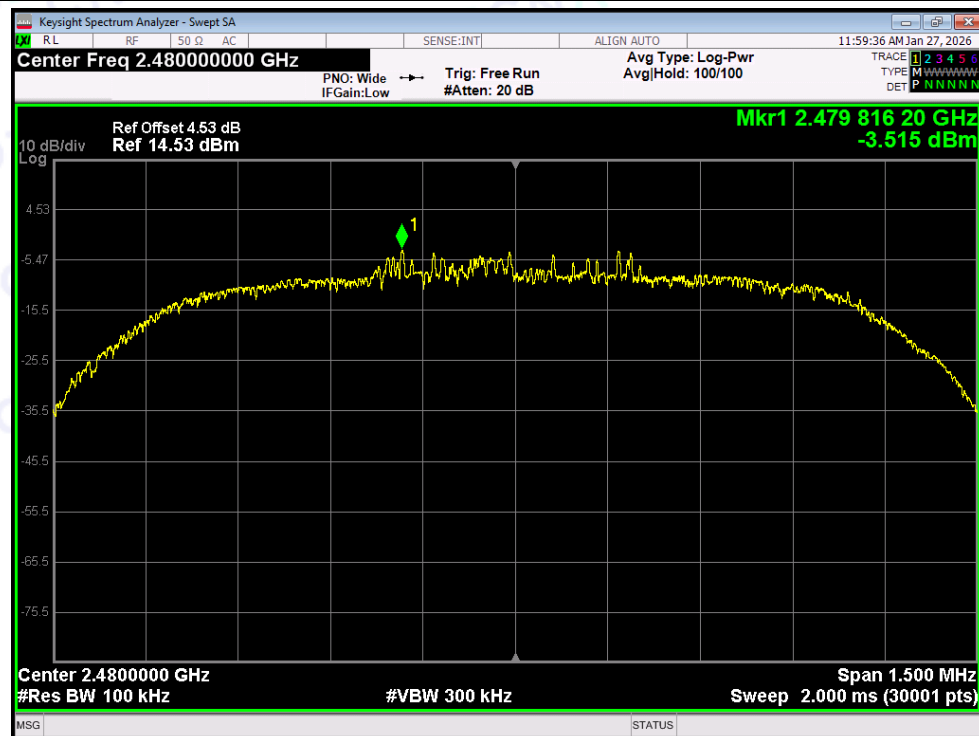
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



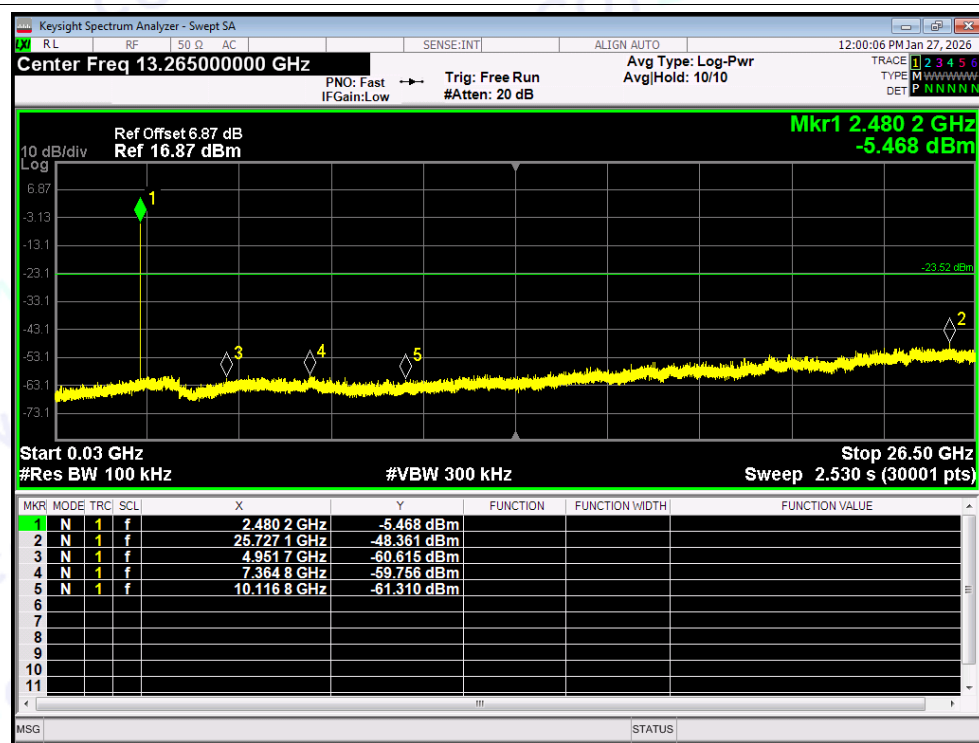
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



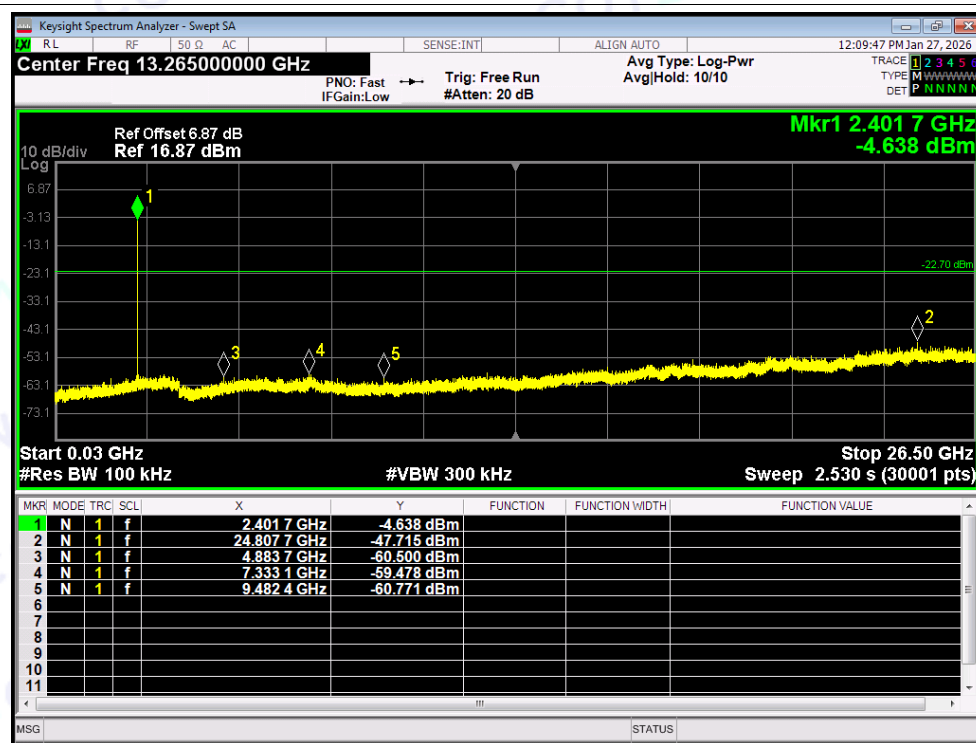
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



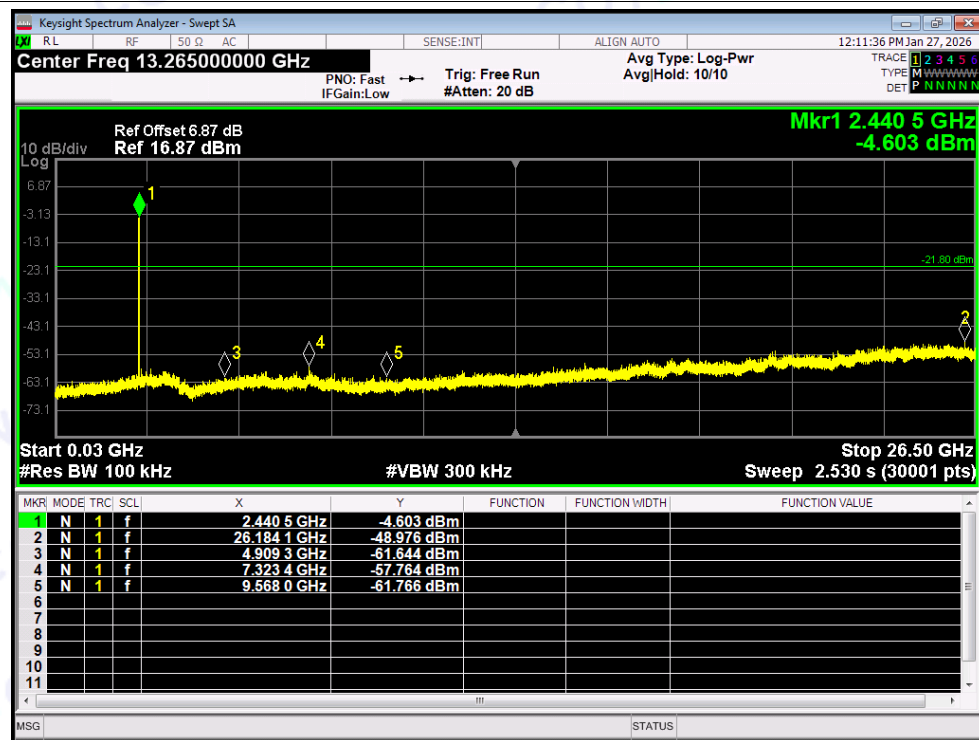
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



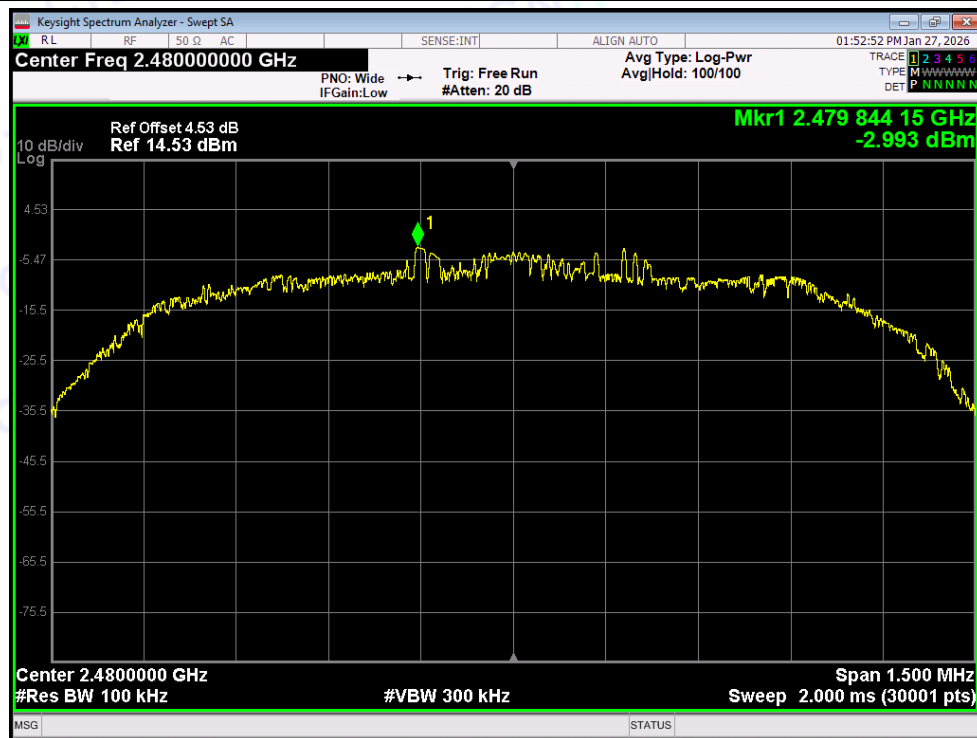
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



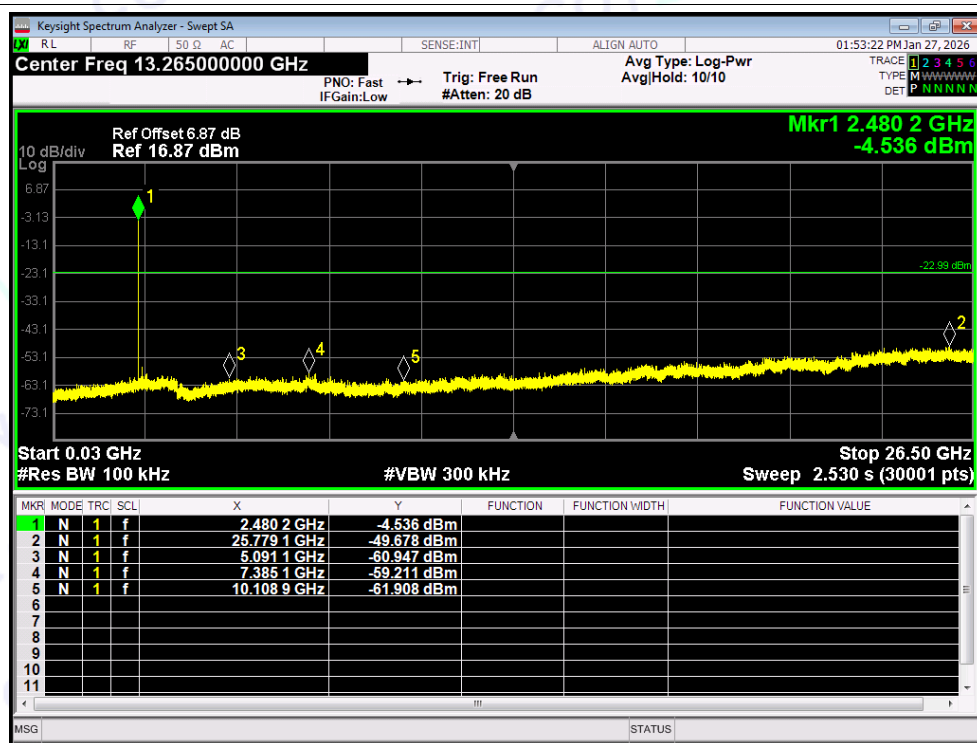
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

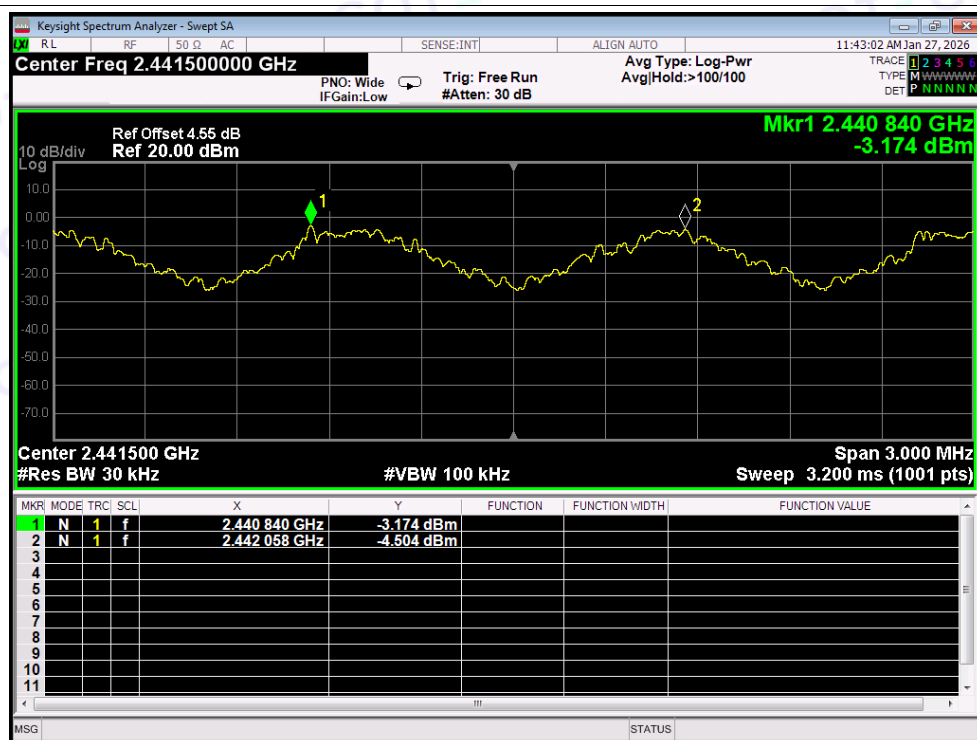


9. Carrier Frequencies Separation

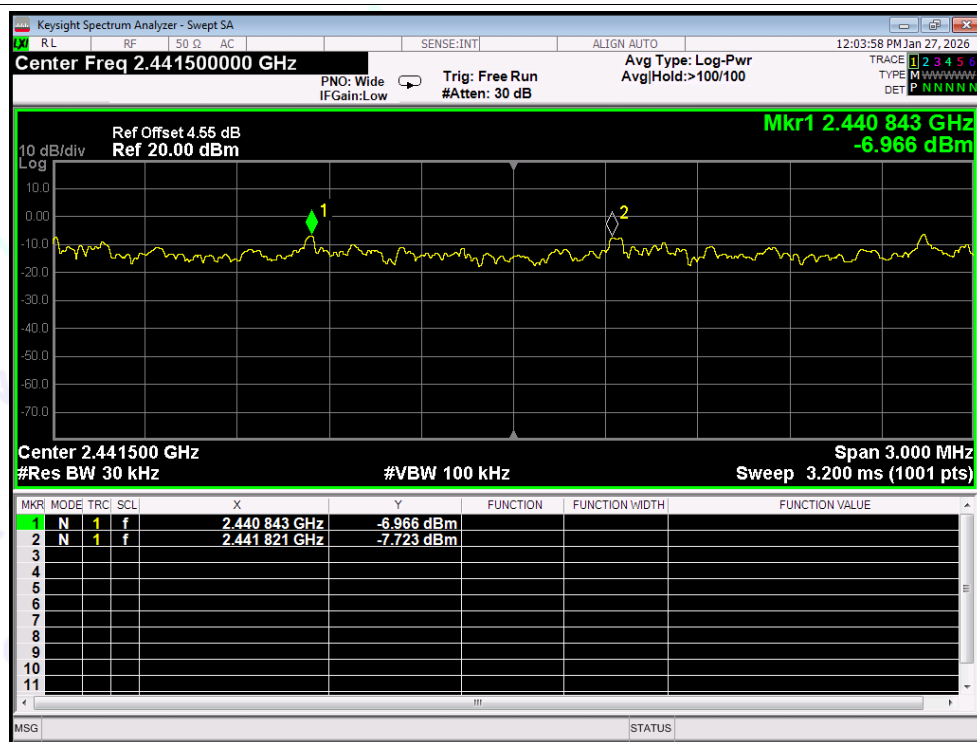
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2440.84	2442.058	1.218	0.64	Pass
NVNT	2-DH5	Ant1	2440.843	2441.821	0.978	0.873	Pass
NVNT	3-DH5	Ant1	2440.834	2441.818	0.984	0.84	Pass

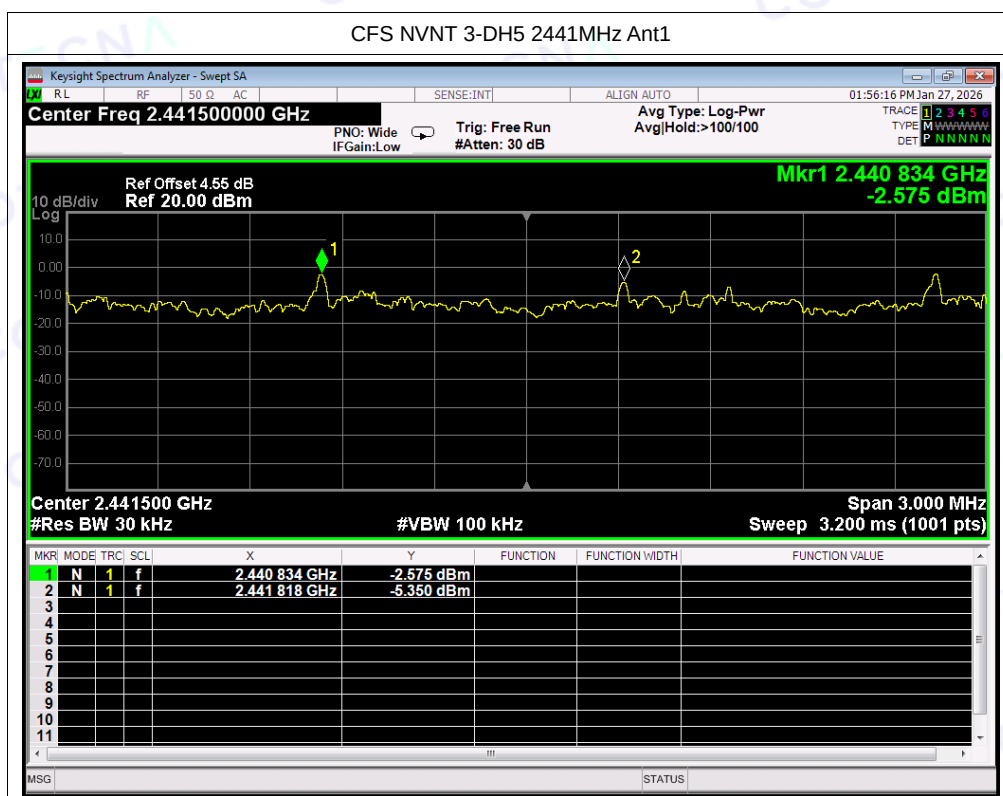
Test Graphs

CFS NVNT 1-DH5 2441MHz Ant1



CFS NVNT 2-DH5 2441MHz Ant1



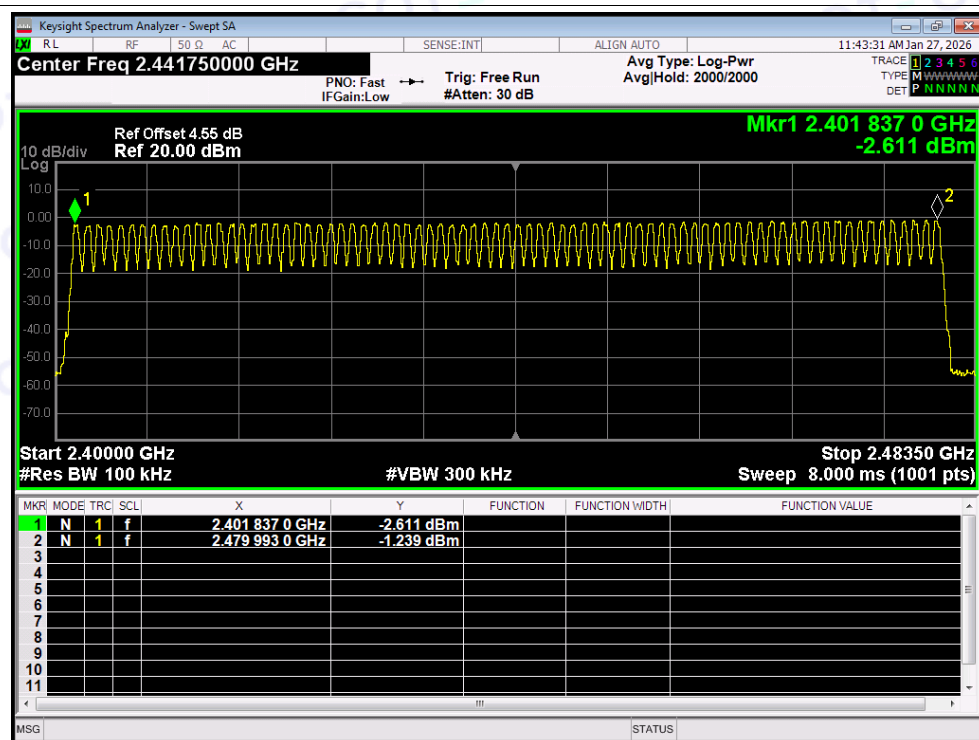


10. Number of Hopping Channel

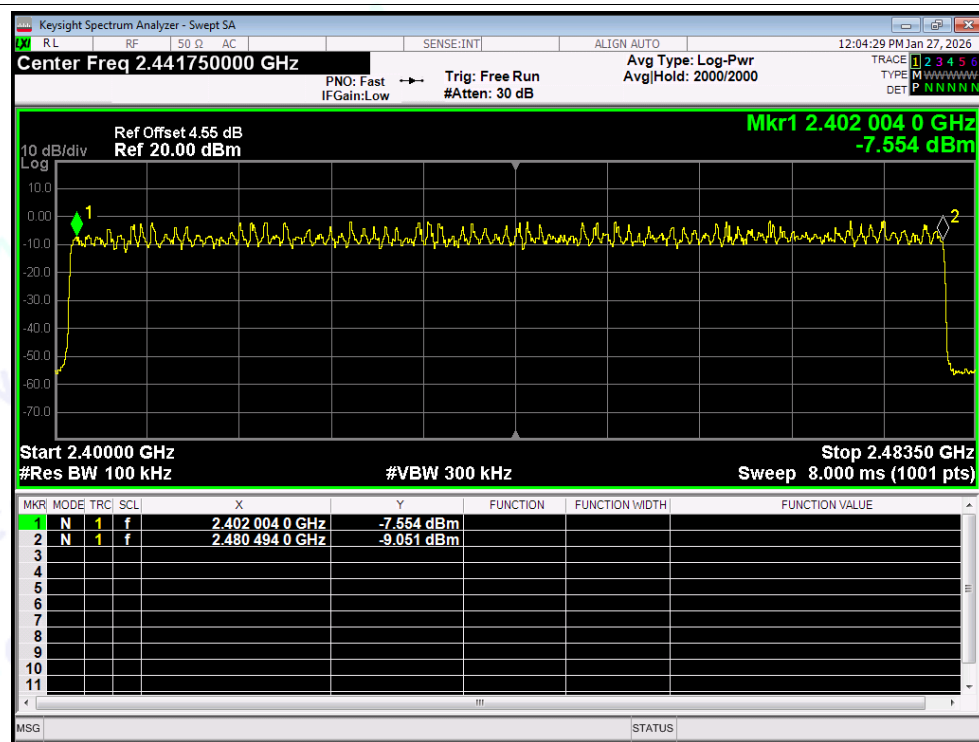
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

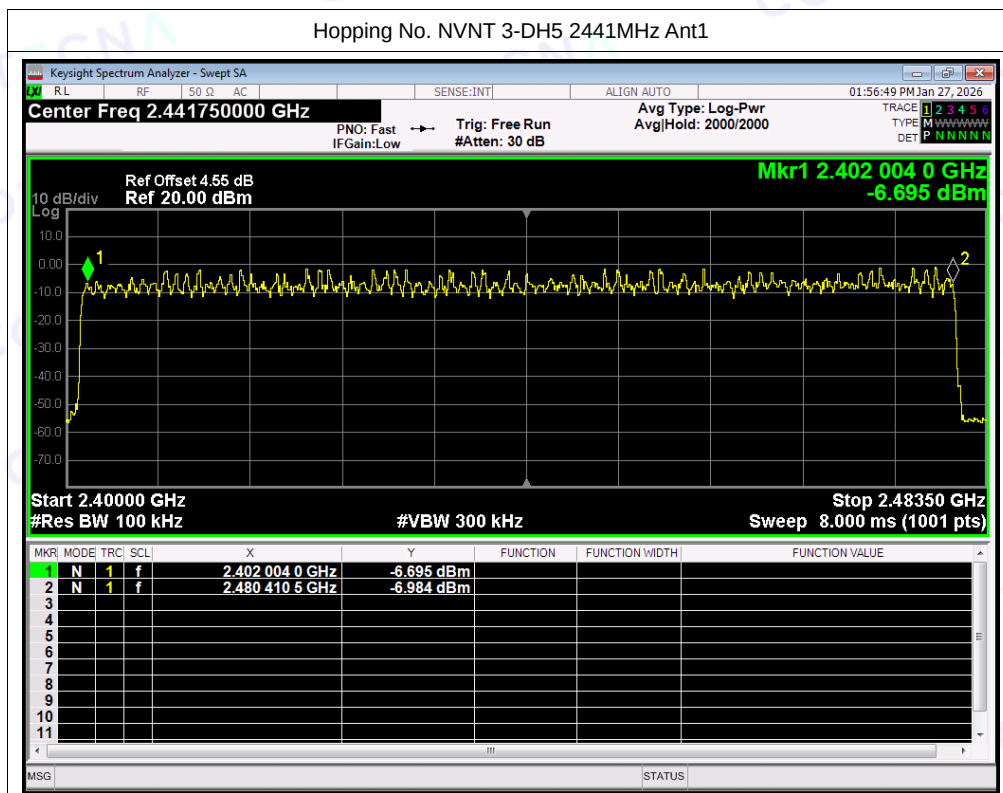
Test Graphs

Hopping No. NVNT 1-DH5 2441MHz Ant1



Hopping No. NVNT 2-DH5 2441MHz Ant1





-----END OF THE REPORT-----