

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	Wireless Headphones
Test Model:	iKF Mars
Sample ID:	HC-C-202507-0155-02-2#
Environmental Conditions	
Temperature:	23.9℃
Relative Humidity:	48%
Test Voltage:	DC 5V
Test Engineer:	Gold Zhang
Note: For a more detailed features description, please refer to the report TBR-C-202507-0155-11 The report only show the worst case data.	

Contents

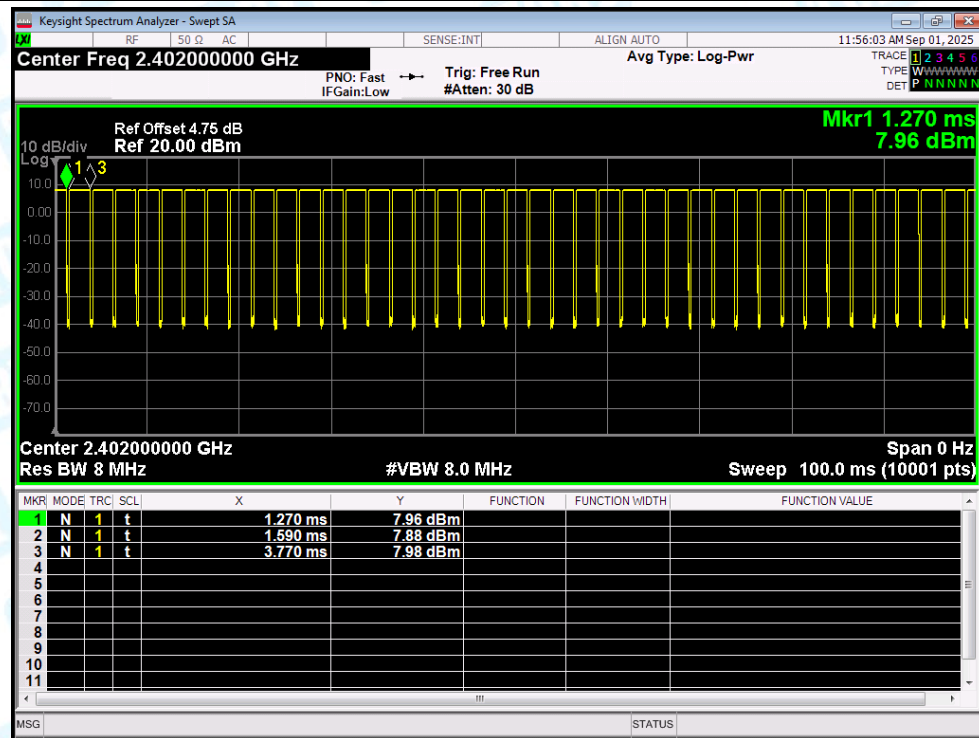
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1. Duty Cycle

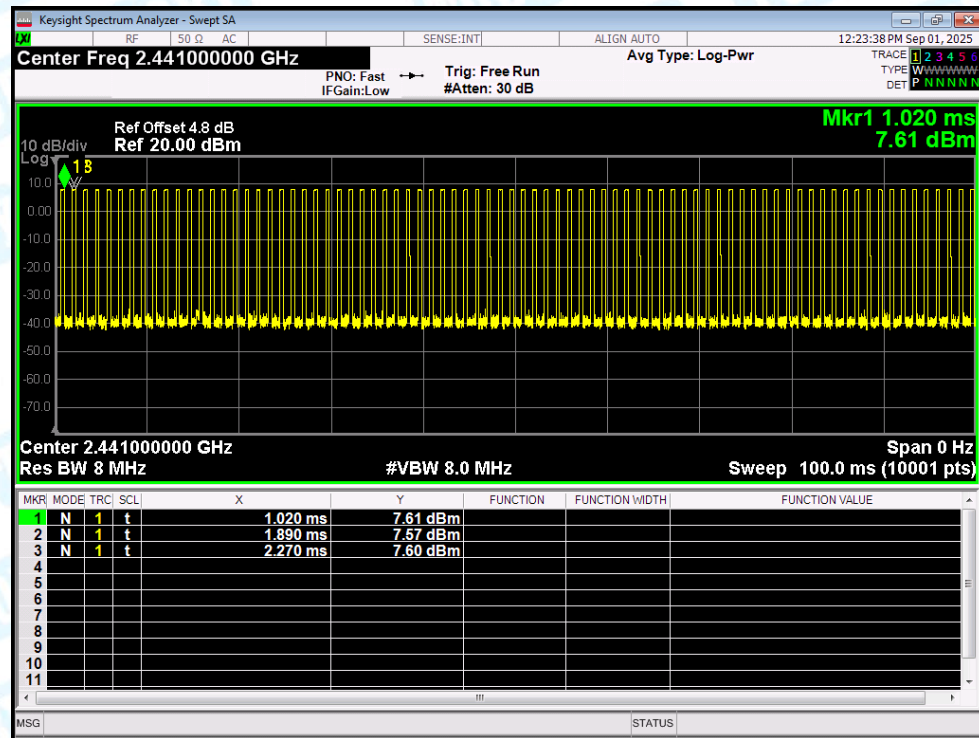
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	87.2	0.59	0.46
NVNT	1-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2480	Ant1	30.4	5.17	2.63

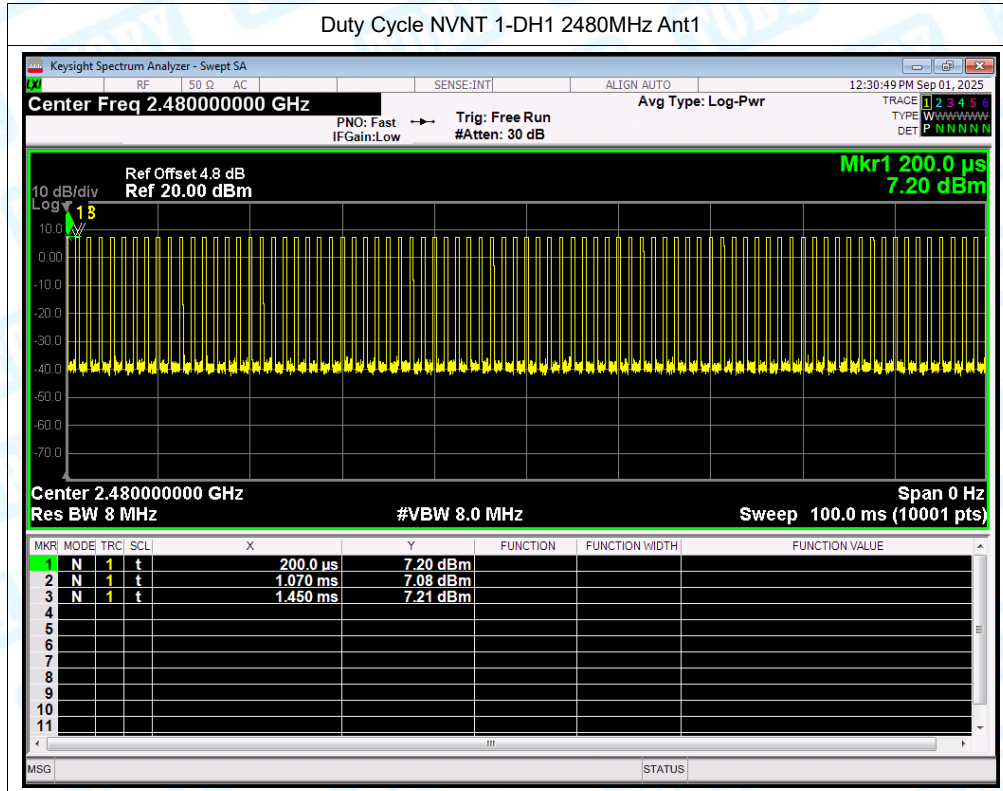
Test Graphs

Duty Cycle NVNT 1-DH1 2402MHz Ant1



Duty Cycle NVNT 1-DH1 2441MHz Ant1



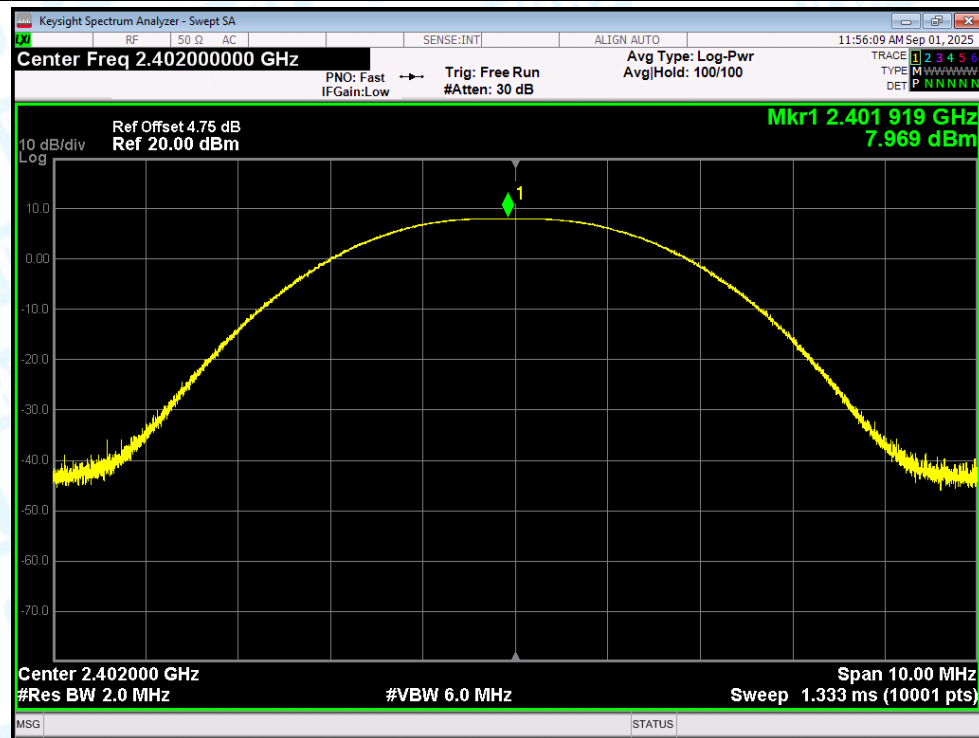


2. Maximum Conducted Output Power

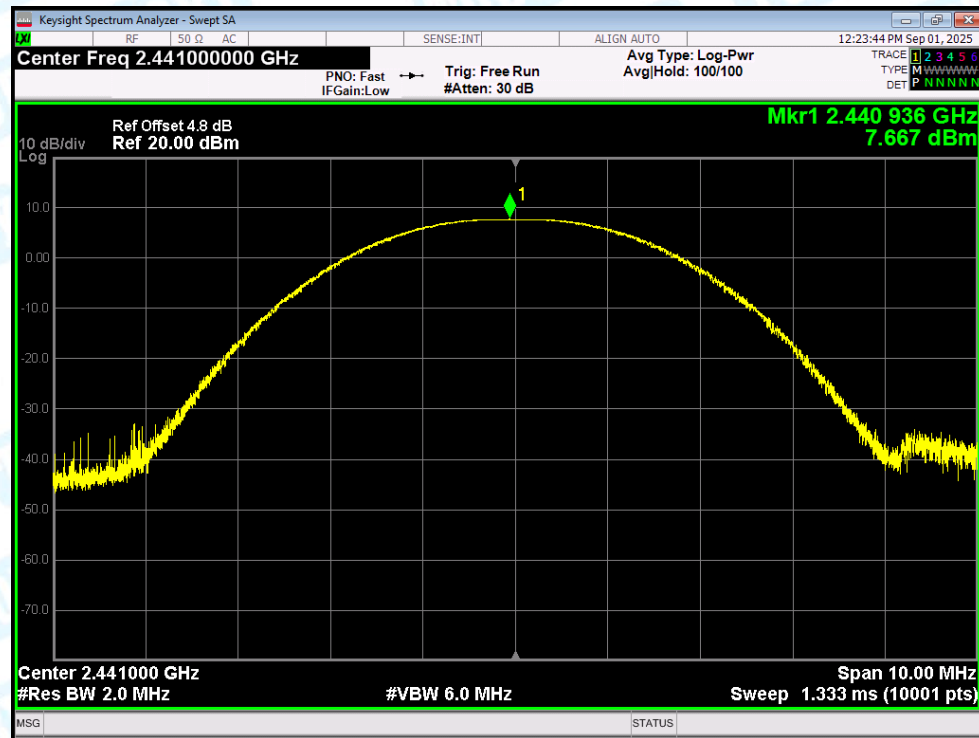
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	7.969	21	Pass
NVNT	1-DH1	2441	Ant1	7.667	21	Pass
NVNT	1-DH1	2480	Ant1	7.185	21	Pass

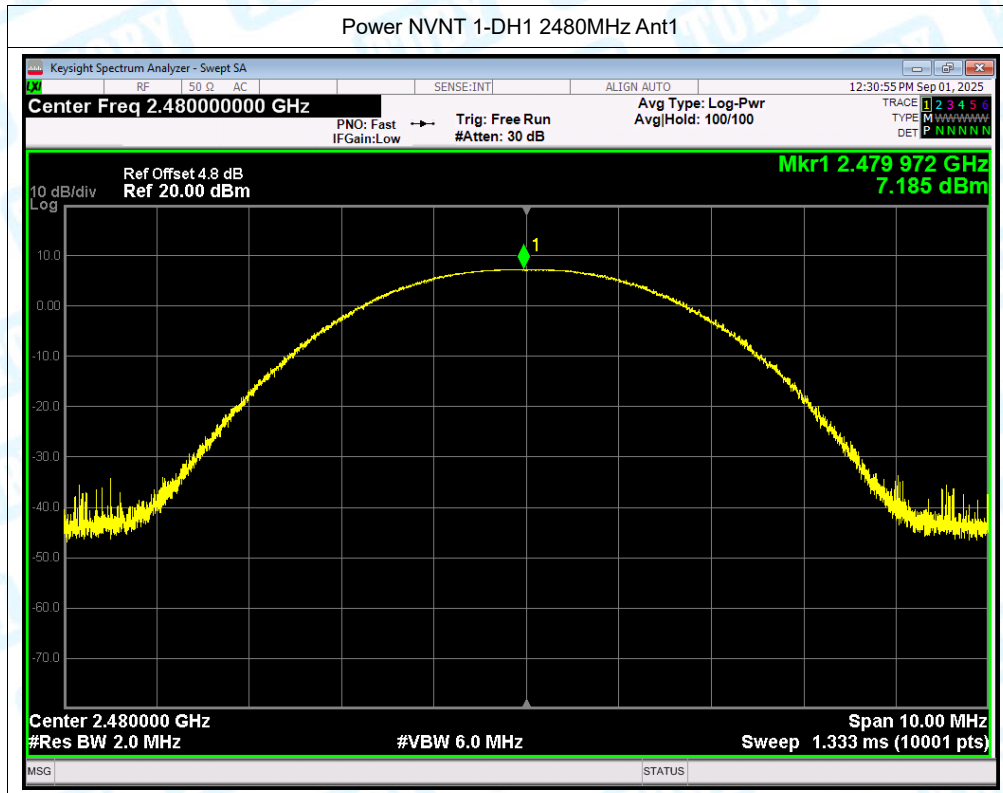
Test Graphs

Power NVNT 1-DH1 2402MHz Ant1



Power NVNT 1-DH1 2441MHz Ant1



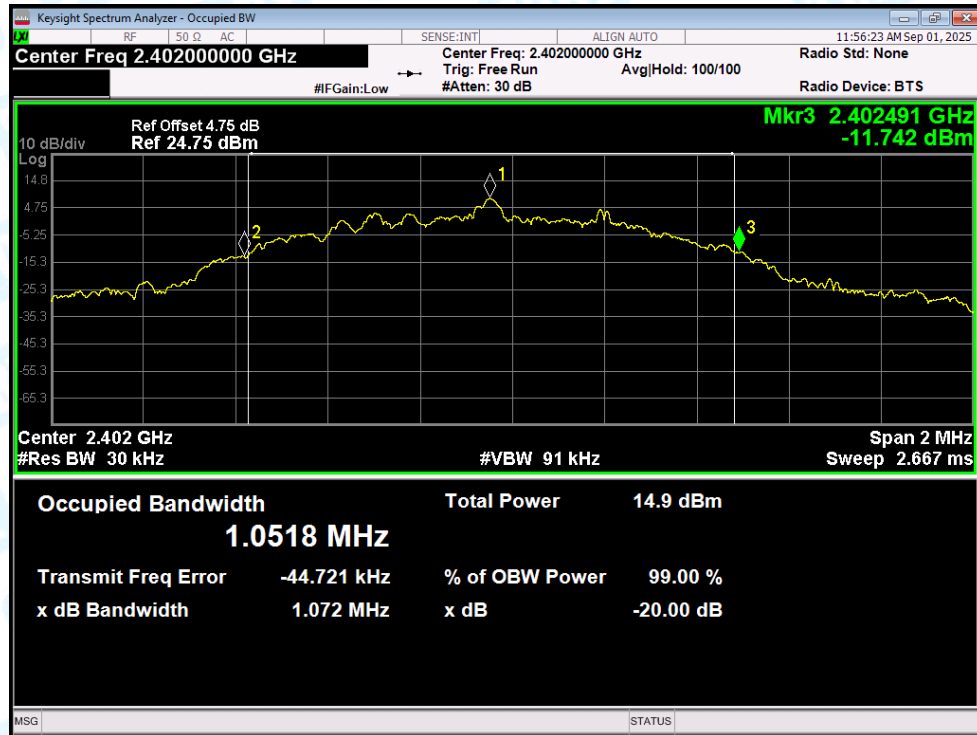


3. -20dB Bandwidth

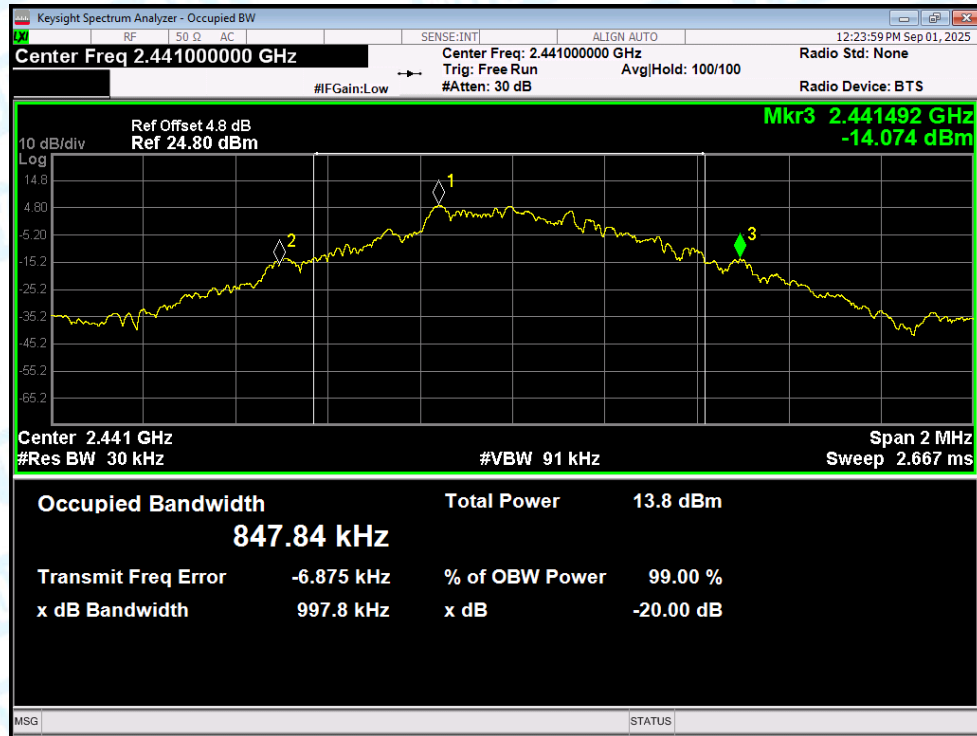
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	1.07	Pass
NVNT	1-DH1	2441	Ant1	1	Pass
NVNT	1-DH1	2480	Ant1	0.97	Pass

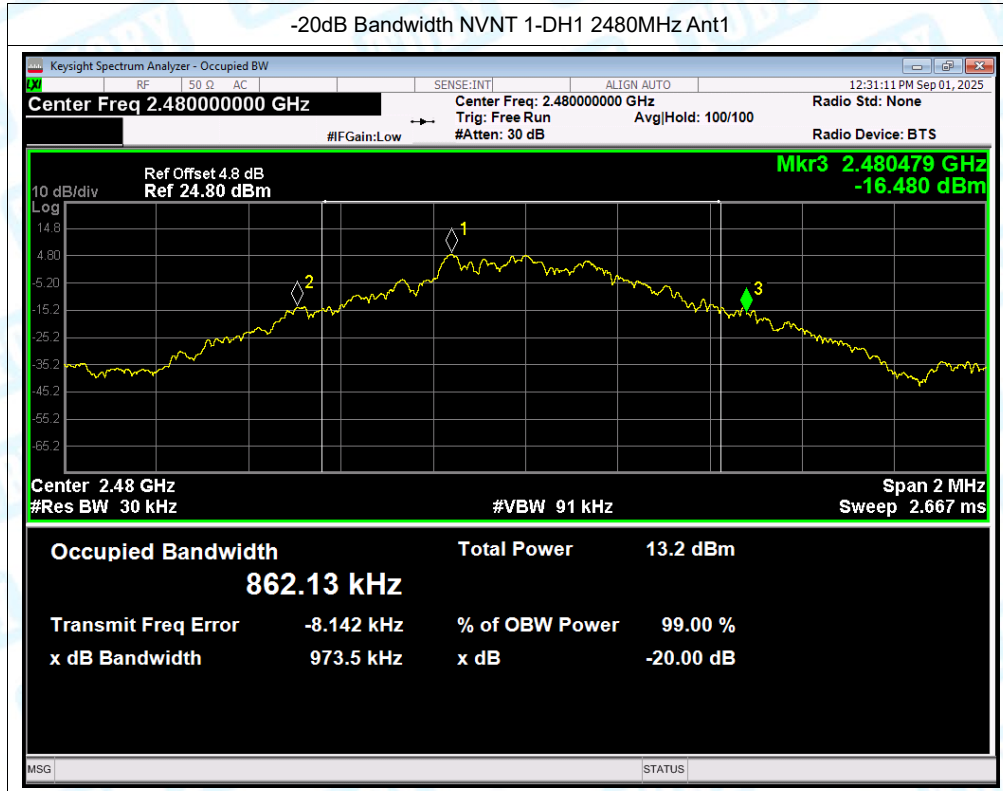
Test Graphs

-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



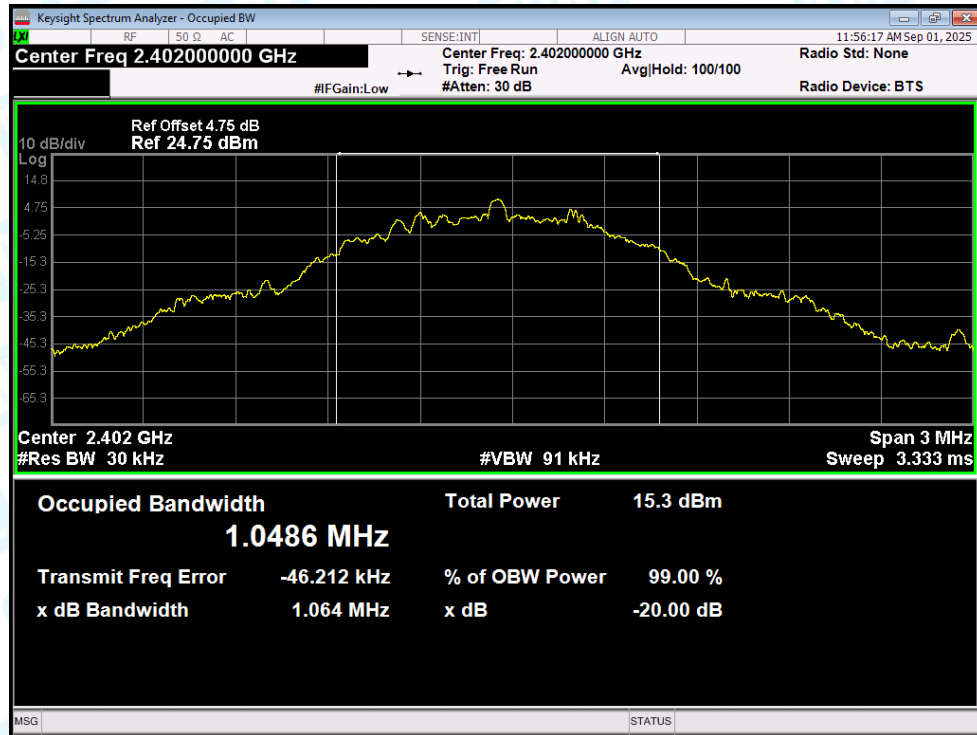


4. Occupied Channel Bandwidth

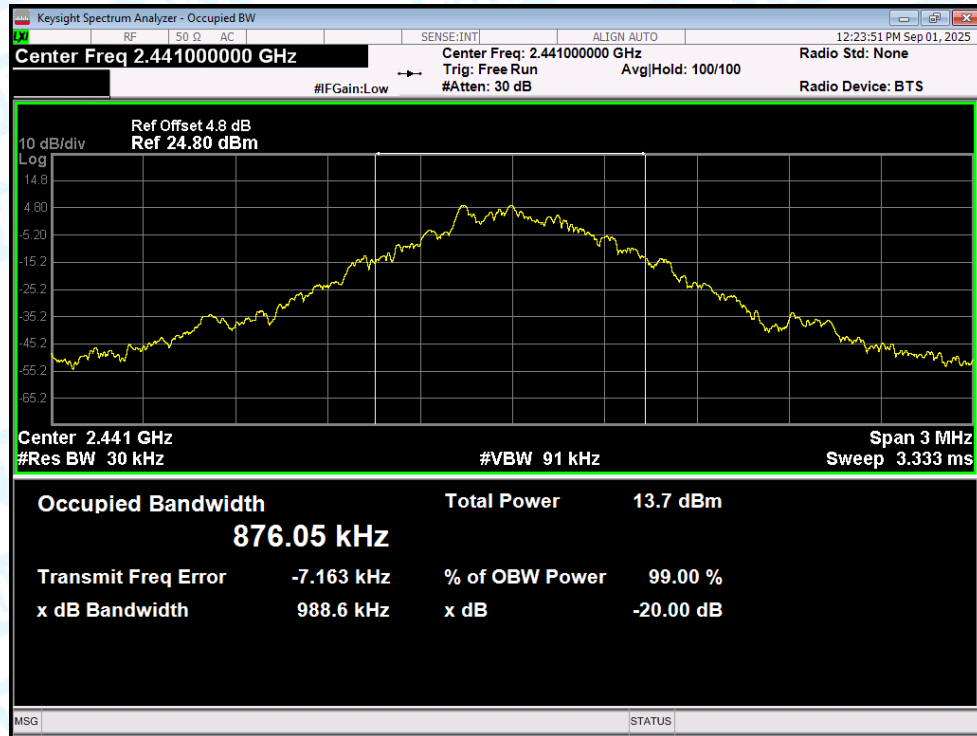
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	1.049
NVNT	1-DH1	2441	Ant1	0.876
NVNT	1-DH1	2480	Ant1	0.844

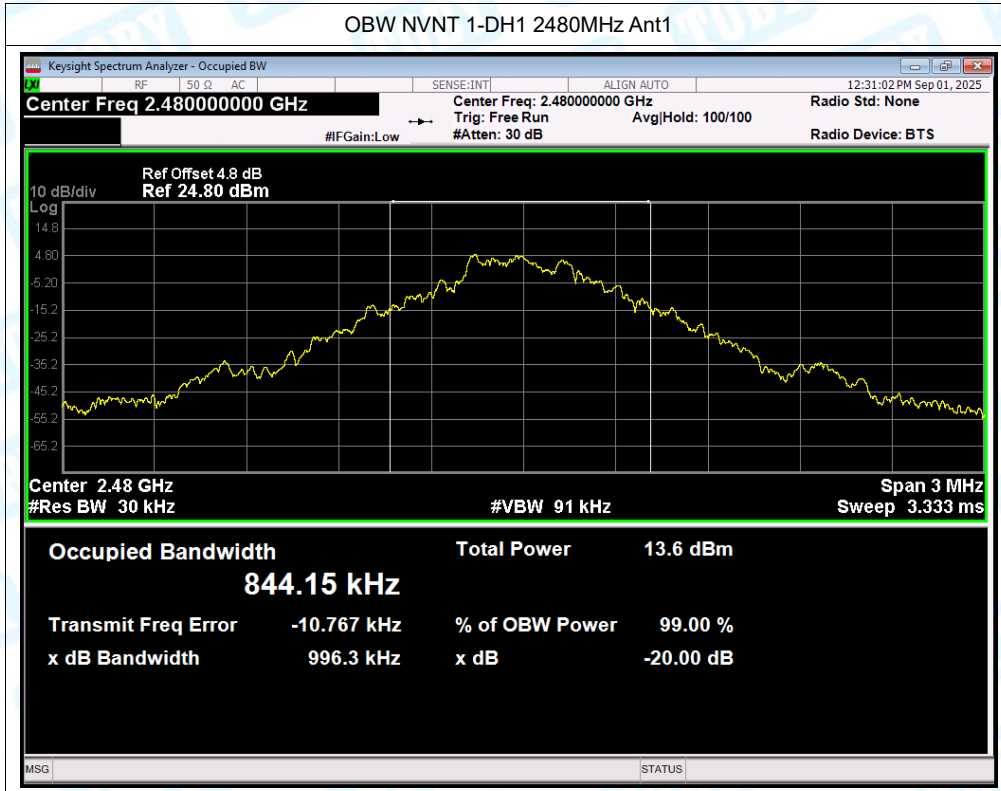
Test Graphs

OBW NVNT 1-DH1 2402MHz Ant1



OBW NVNT 1-DH1 2441MHz Ant1





5. Band Edge

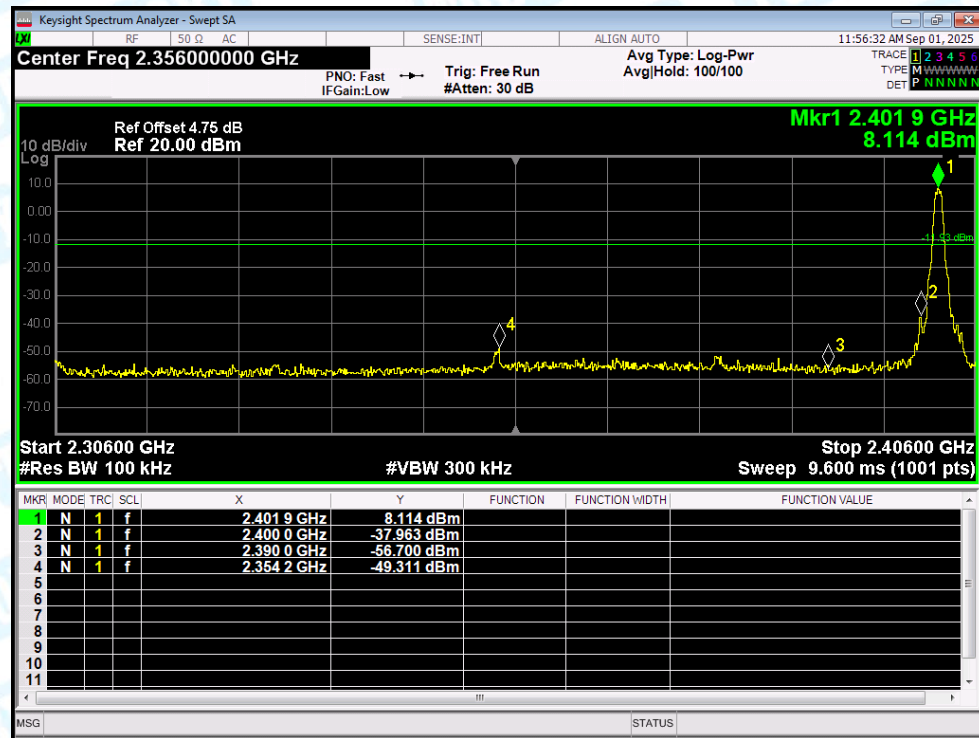
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-57.38	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-59.64	-20	Pass

Test Graphs

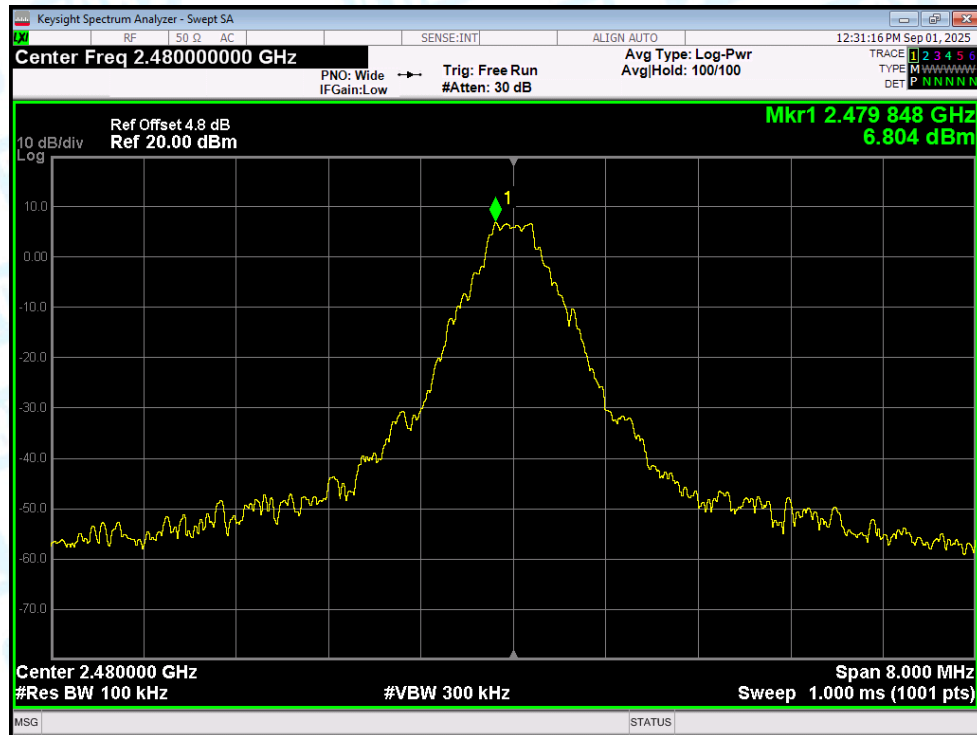
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



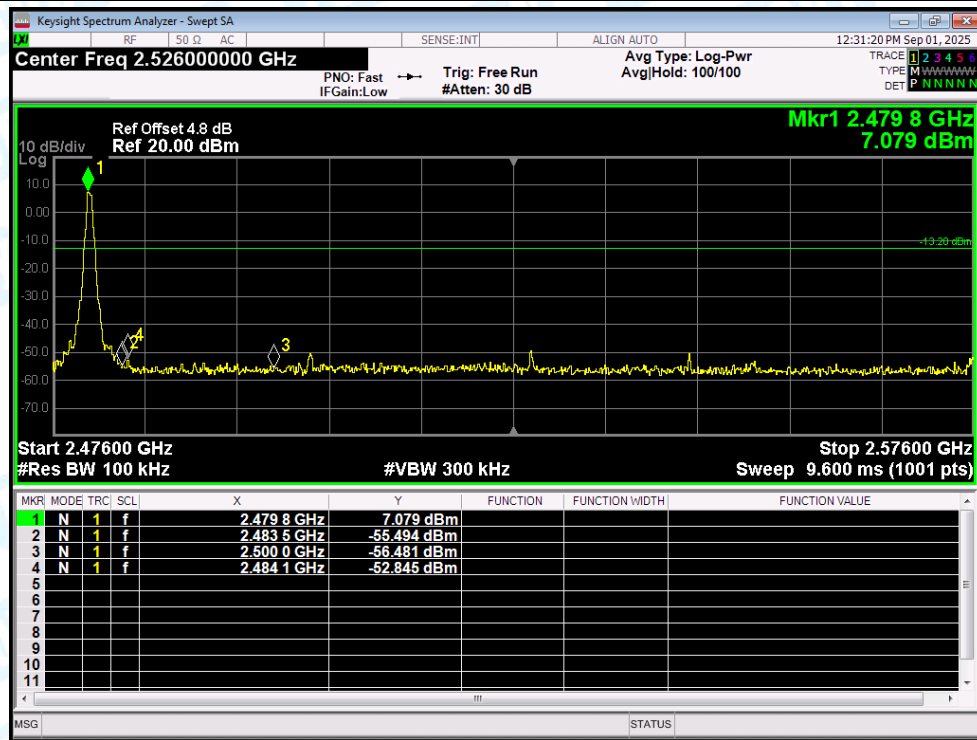
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



6. Band Edge(Hopping)

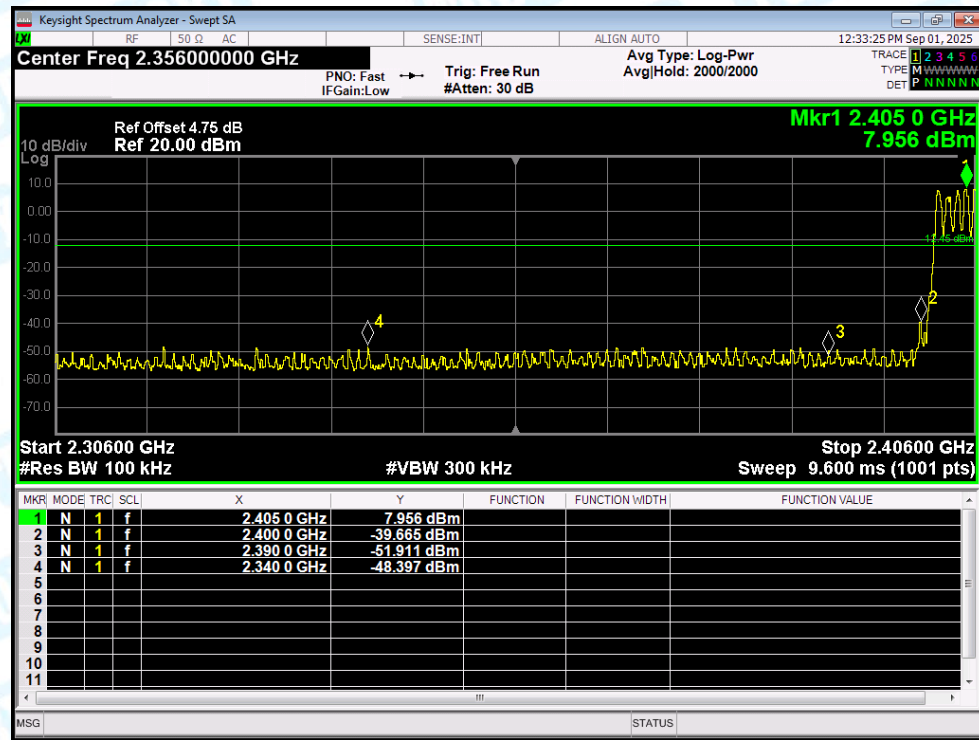
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-55.95	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-55.54	-20	Pass

Test Graphs

Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



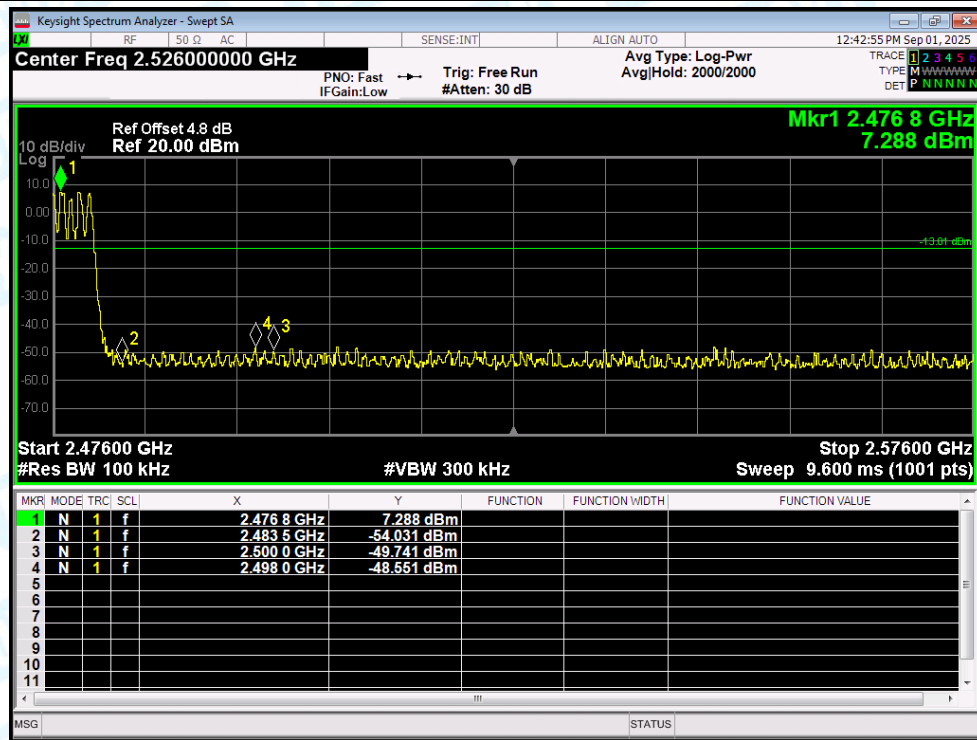
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



7. Conducted RF Spurious Emission

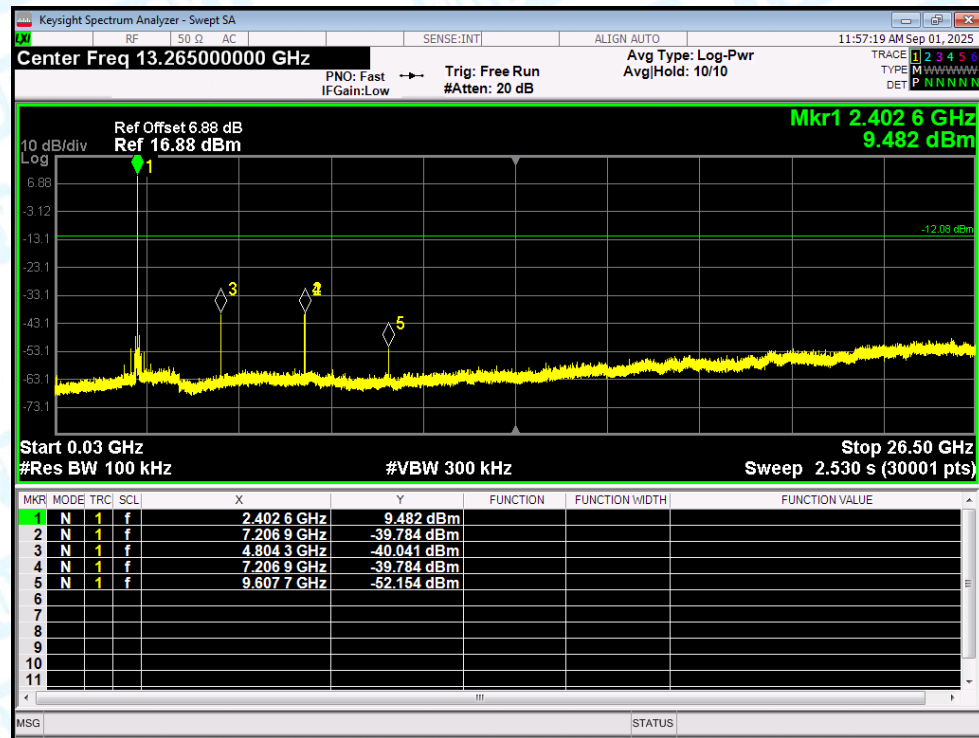
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-47.7	-20	Pass
NVNT	1-DH1	2441	Ant1	-47.73	-20	Pass
NVNT	1-DH1	2480	Ant1	-48.62	-20	Pass

Test Graphs

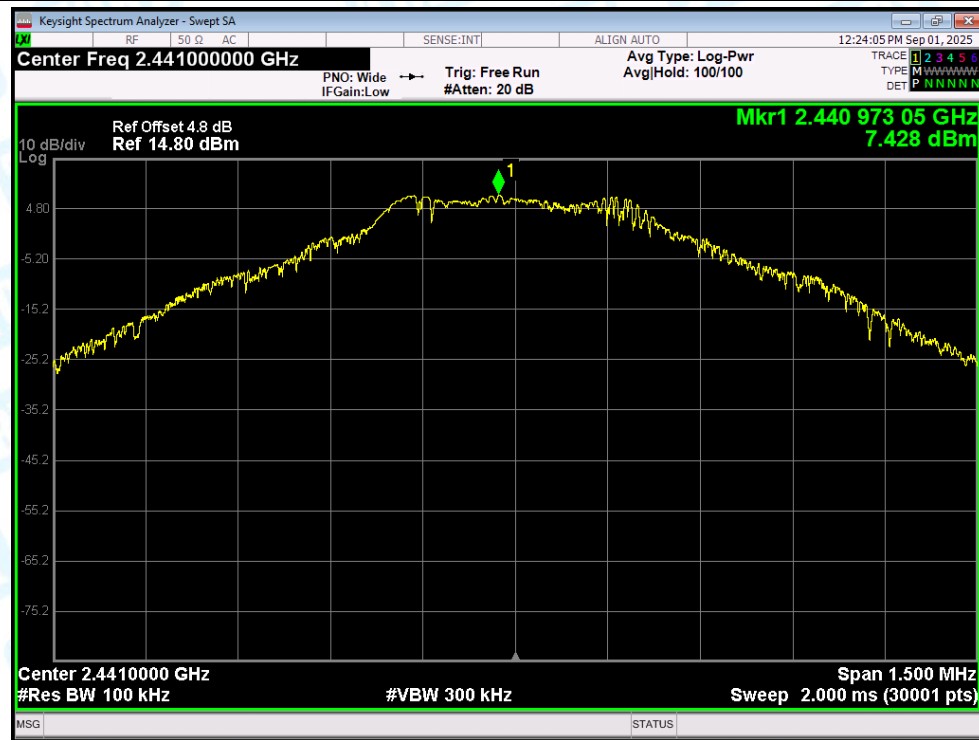
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



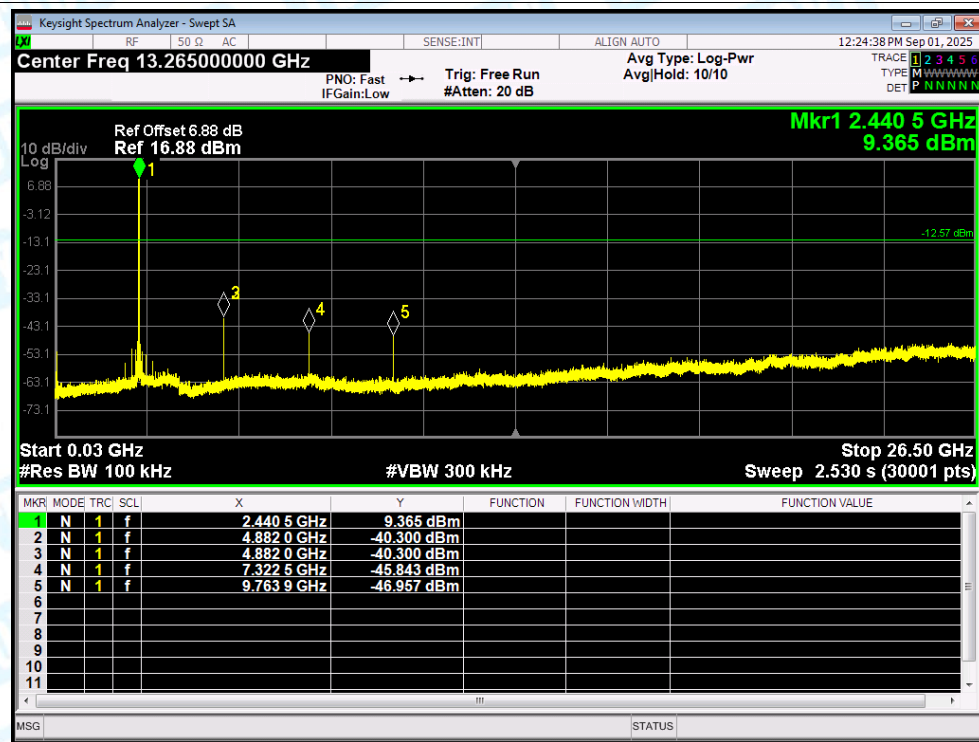
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



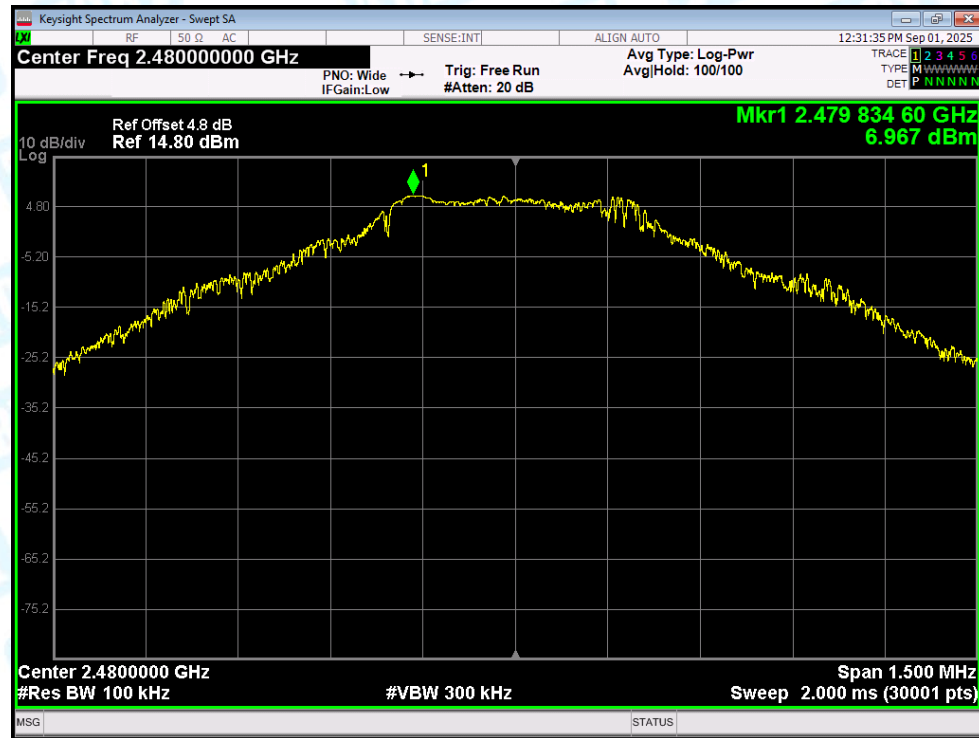
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



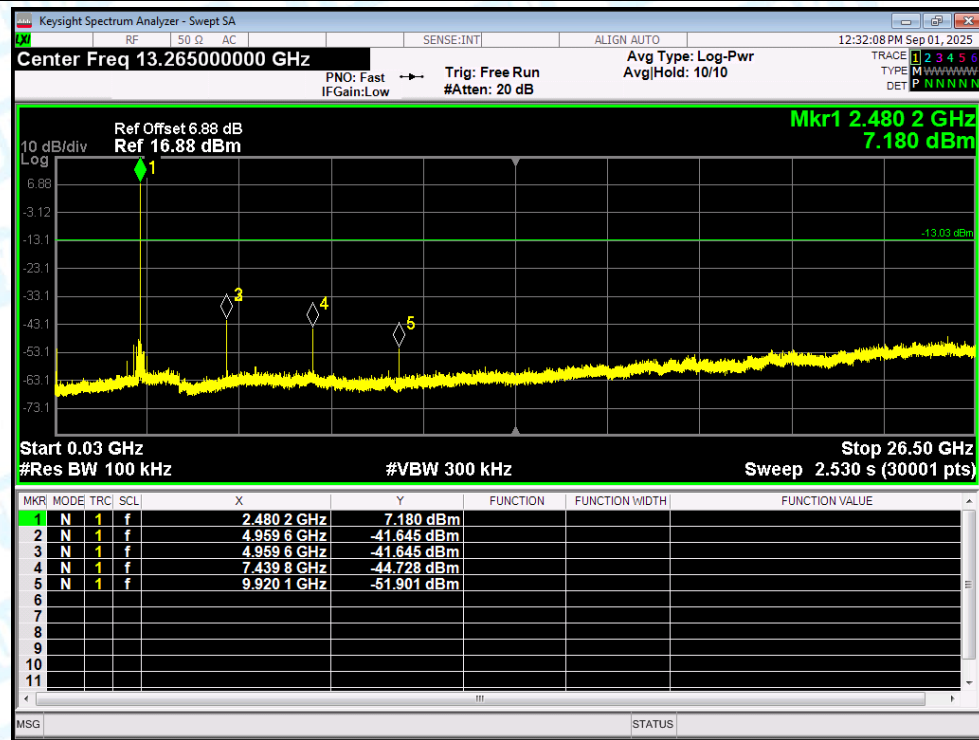
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission

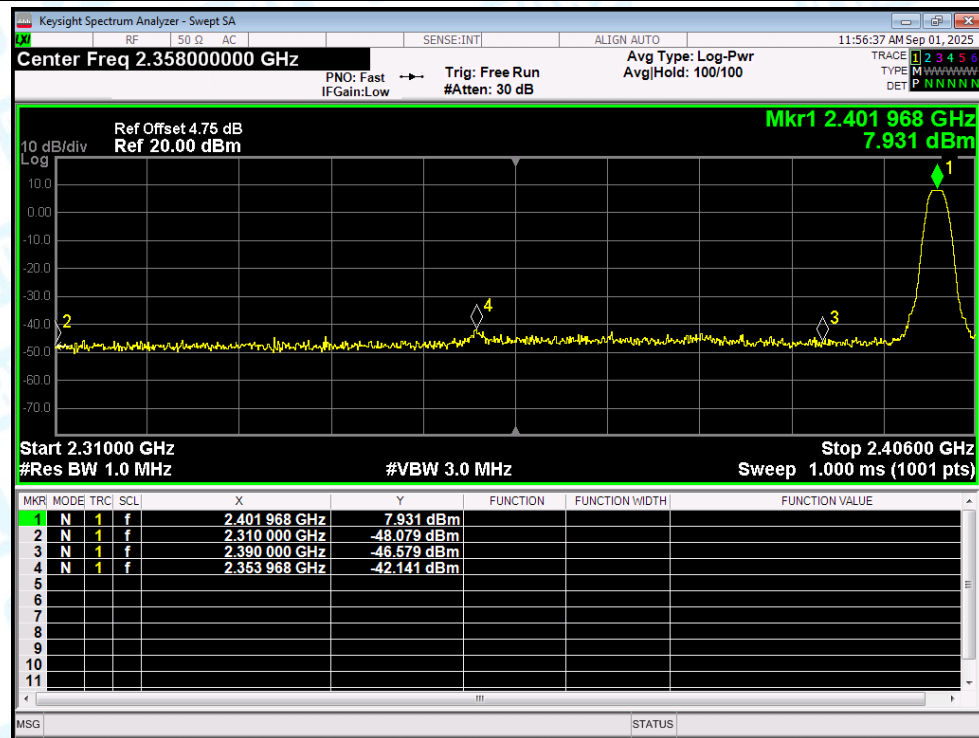


8. Restrict Band

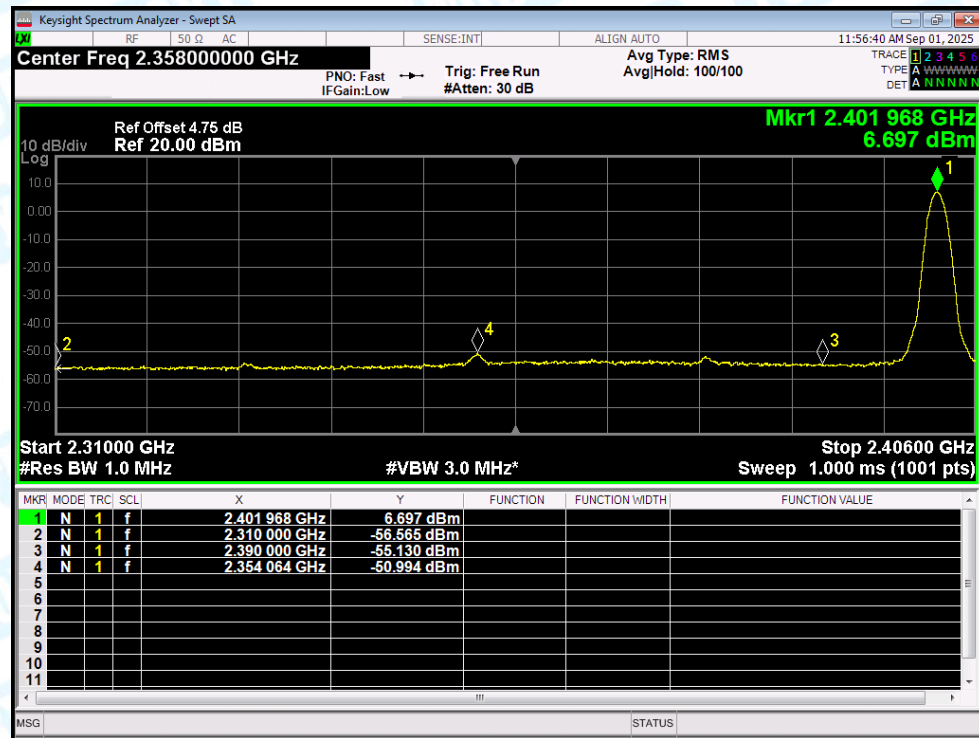
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-48.08	3	-	50.18	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-56.57	3	0.59	42.28	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2353.968	-42.14	3	-	56.12	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2354.064	-50.99	3	0.59	47.86	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-46.58	3	-	51.68	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-55.13	3	0.59	43.72	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-45.04	3	-	53.22	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-55.07	3	5.17	48.36	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.656	-37.24	3	-	61.02	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.56	-53.99	3	5.17	49.44	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-44.94	3	-	53.32	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-54.2	3	5.17	49.23	Average	54	Pass

Test Graphs

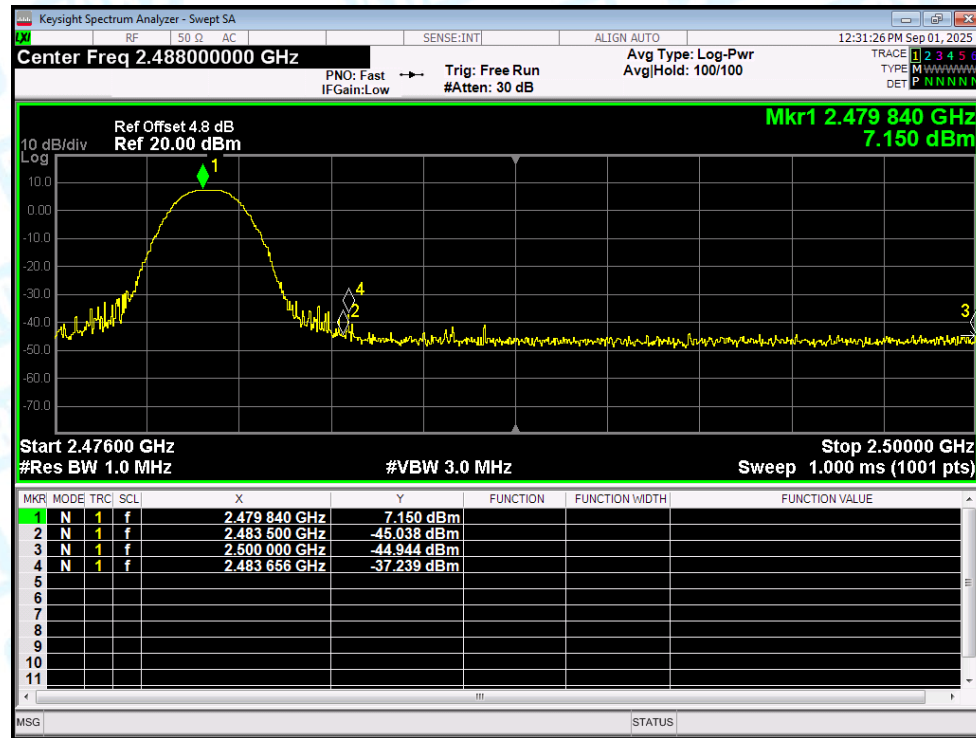
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



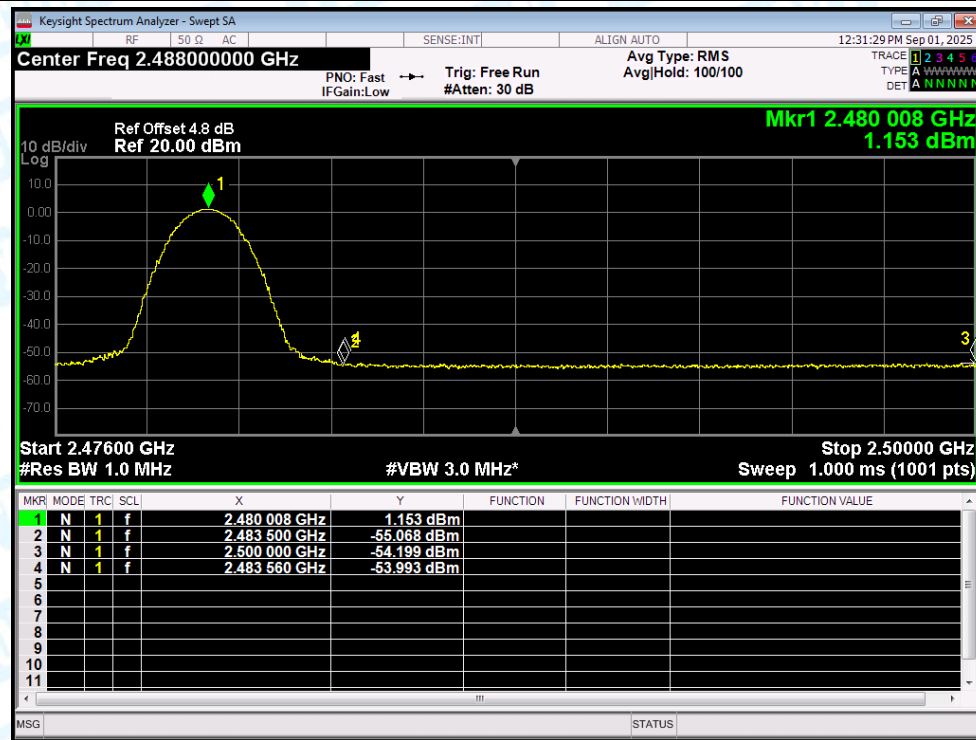
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak

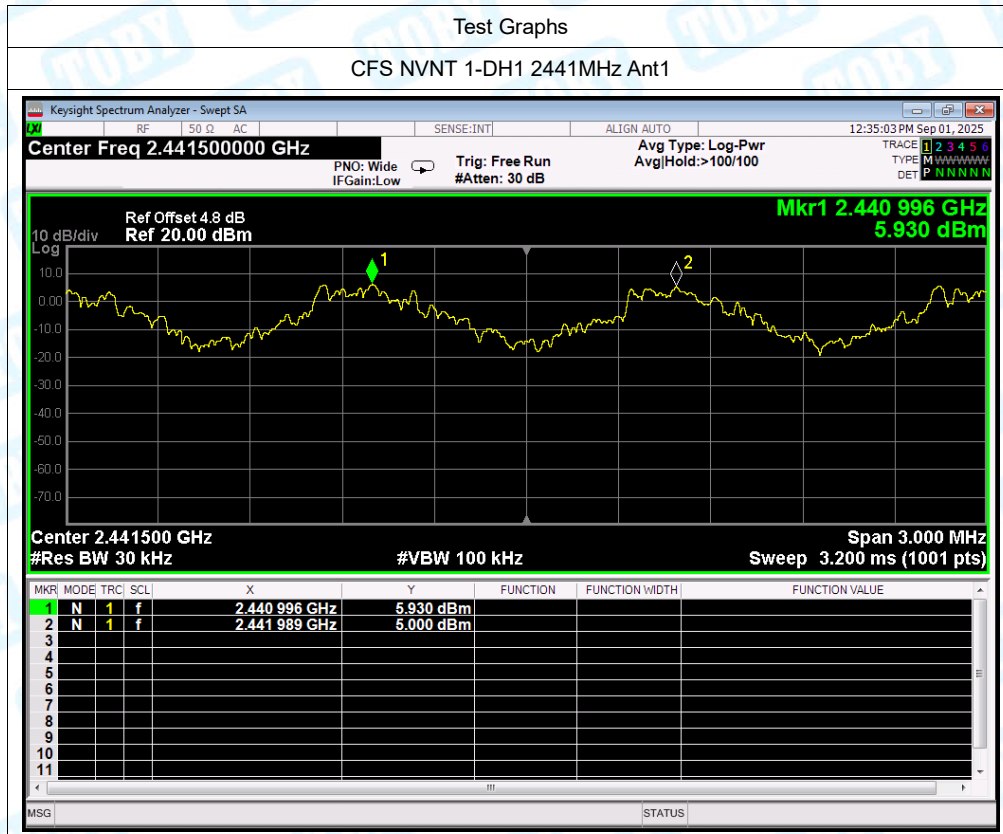


Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



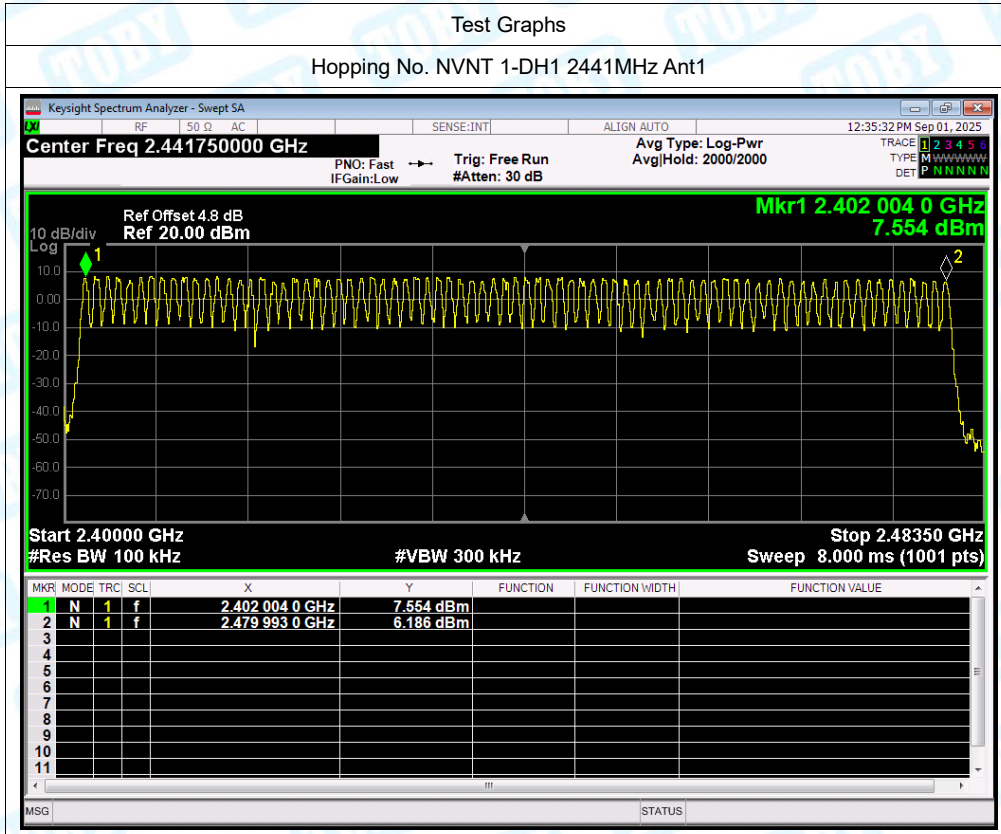
9. Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.996	2441.989	0.993	0.667	Pass



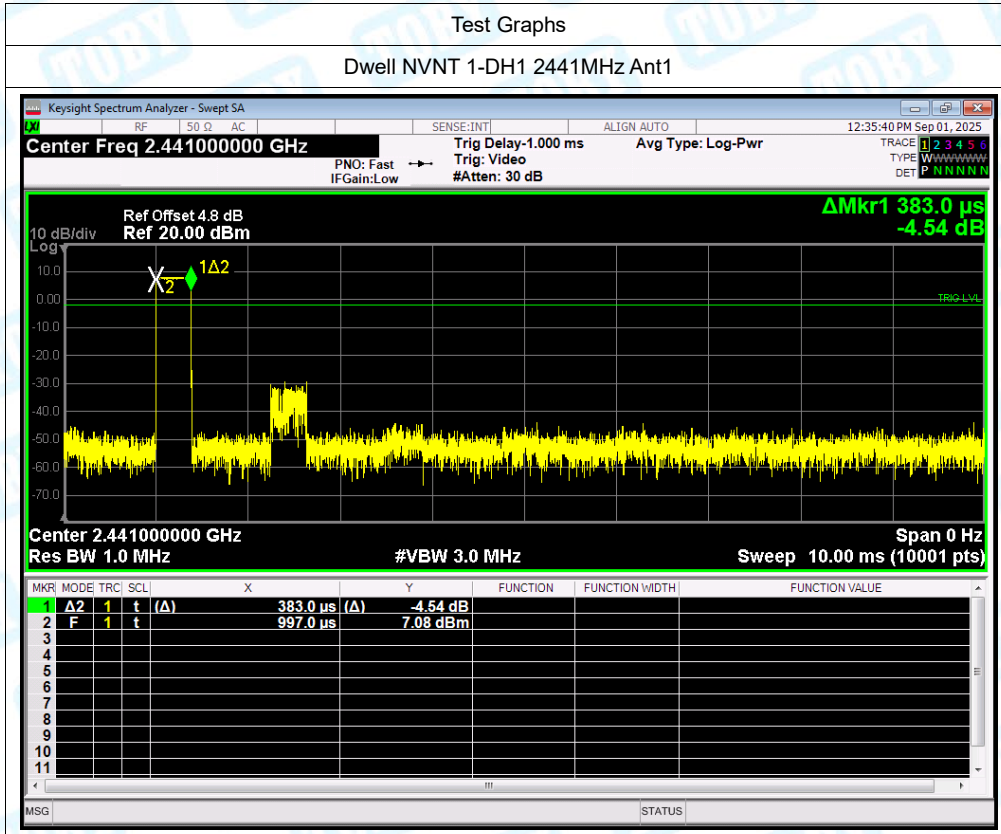
10. Number of Hopping Channel

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass



11. Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.383	122.56	31600	400	Pass



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