

# RF Test Data for Bluetooth(BDR+EDR) (Conducted Measurements)

General Description of EUT	
<b>Product Name:</b>	Rohm Voyager, Rohm+
<b>Test Model:</b>	4001340
<b>Sample ID:</b>	202204-0403-3-2#
Environmental Conditions	
<b>Temperature:</b>	25°C
<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 3.7V
<b>Test Engineer:</b>	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202204-0403-31.	

## Contents

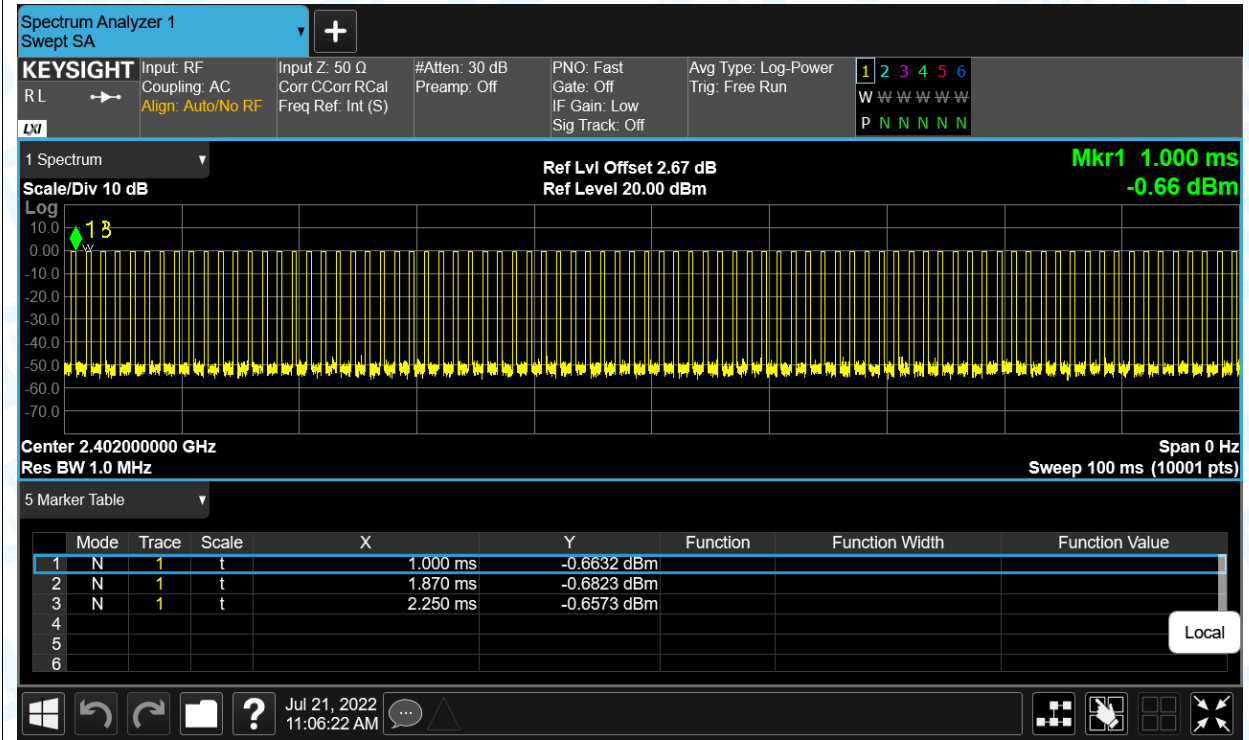
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## 1. Duty Cycle

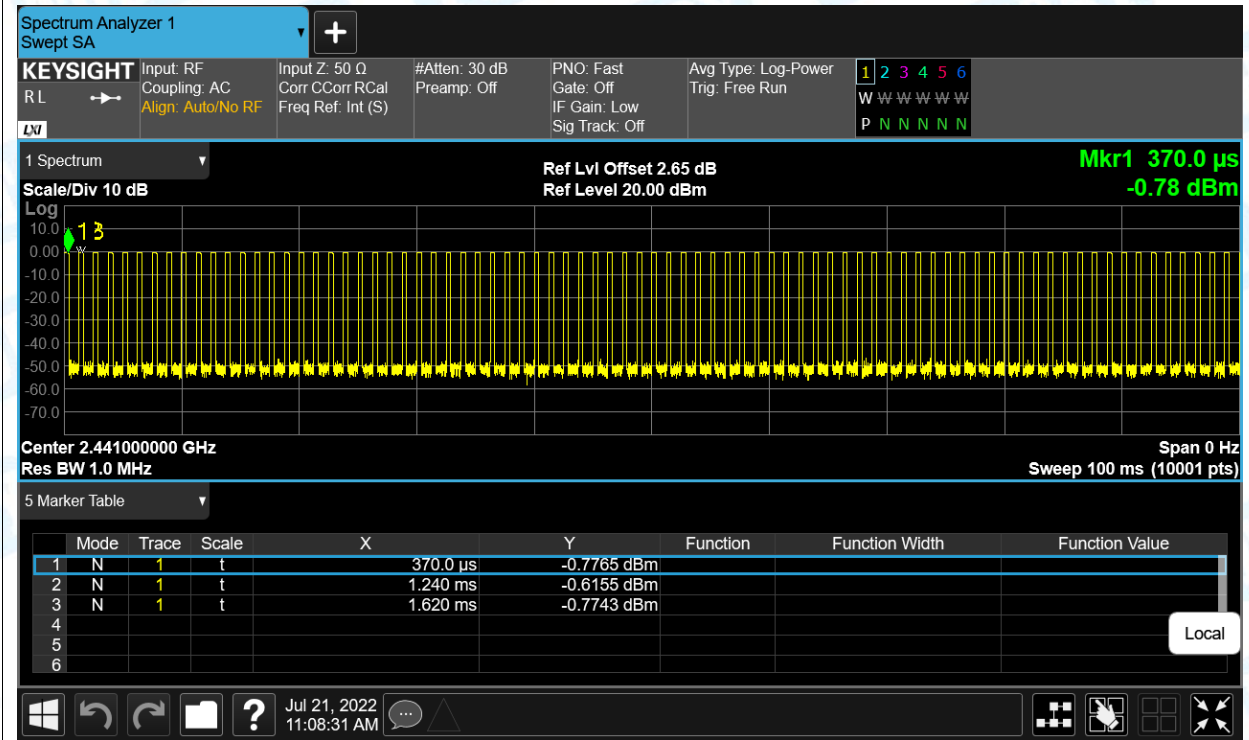
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	31.2	5.06	2.63
NVNT	1-DH1	2441	Ant1	31.21	5.06	2.63
NVNT	1-DH1	2480	Ant1	31.2	5.06	2.63
NVNT	2-DH1	2402	Ant1	32.01	4.95	2.56
NVNT	2-DH1	2441	Ant1	32	4.95	2.56
NVNT	2-DH1	2480	Ant1	32.01	4.95	2.56
NVNT	3-DH1	2402	Ant1	32	4.95	2.56
NVNT	3-DH1	2441	Ant1	32	4.95	2.56
NVNT	3-DH1	2480	Ant1	31.21	5.06	2.63

Test Graphs

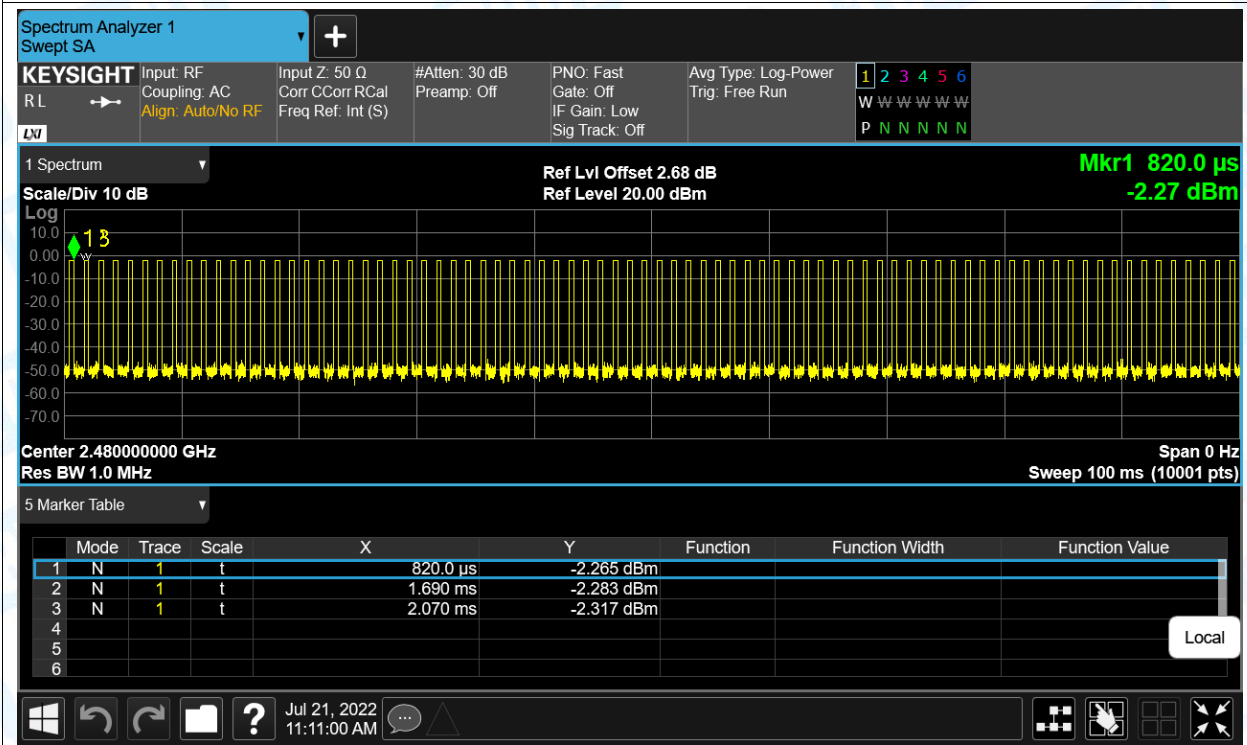
Duty Cycle NVNT 1-DH1 2402MHz Ant1



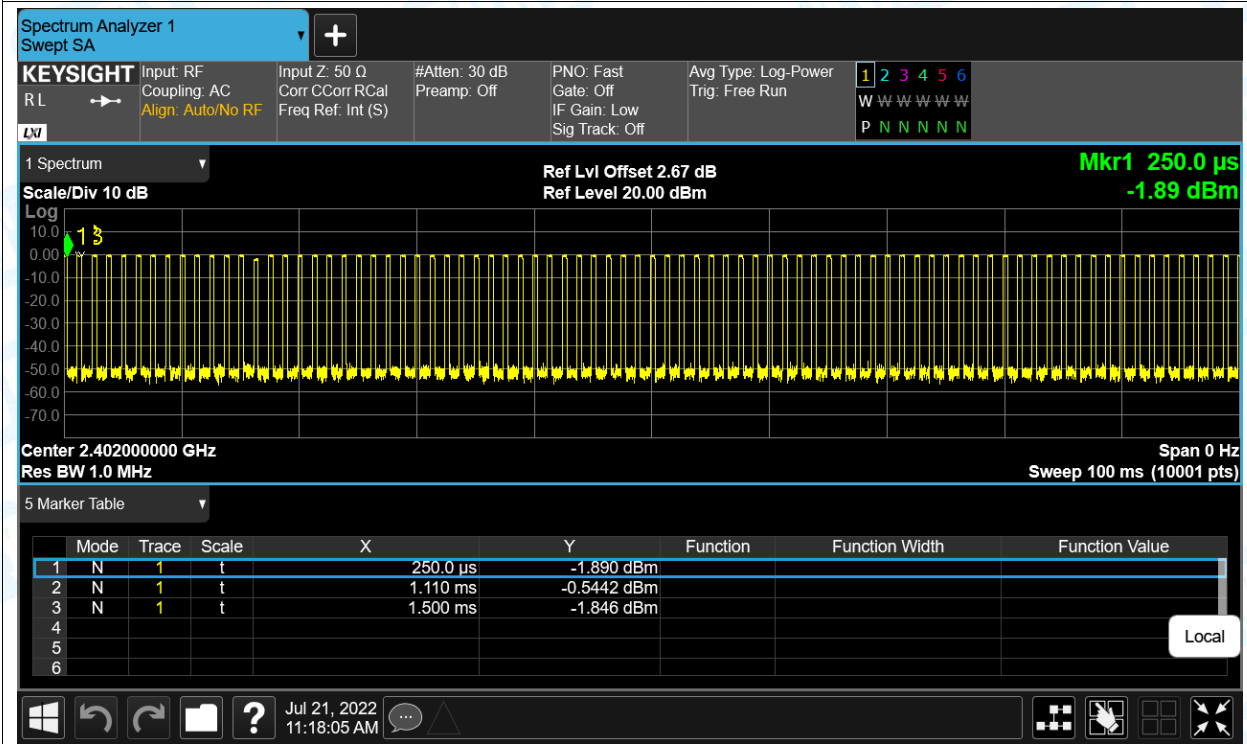
Duty Cycle NVNT 1-DH1 2441MHz Ant1



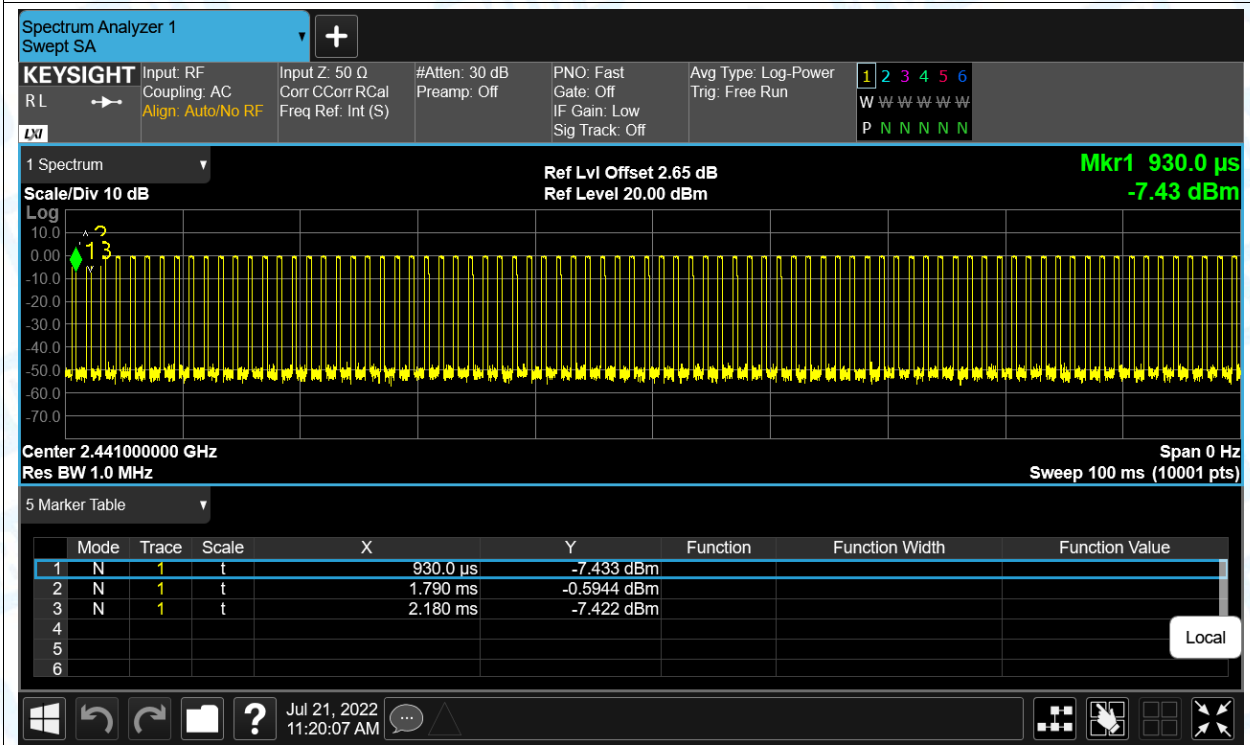
### Duty Cycle NVNT 1-DH1 2480MHz Ant1



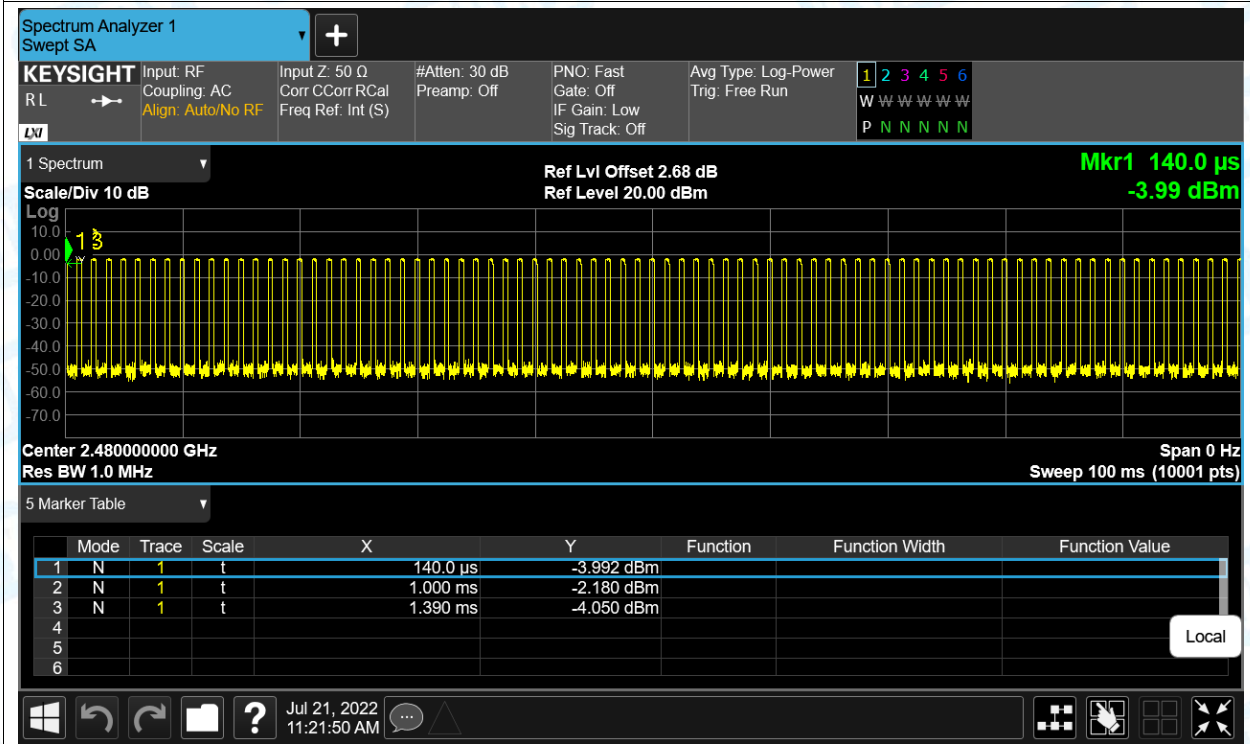
### Duty Cycle NVNT 2-DH1 2402MHz Ant1



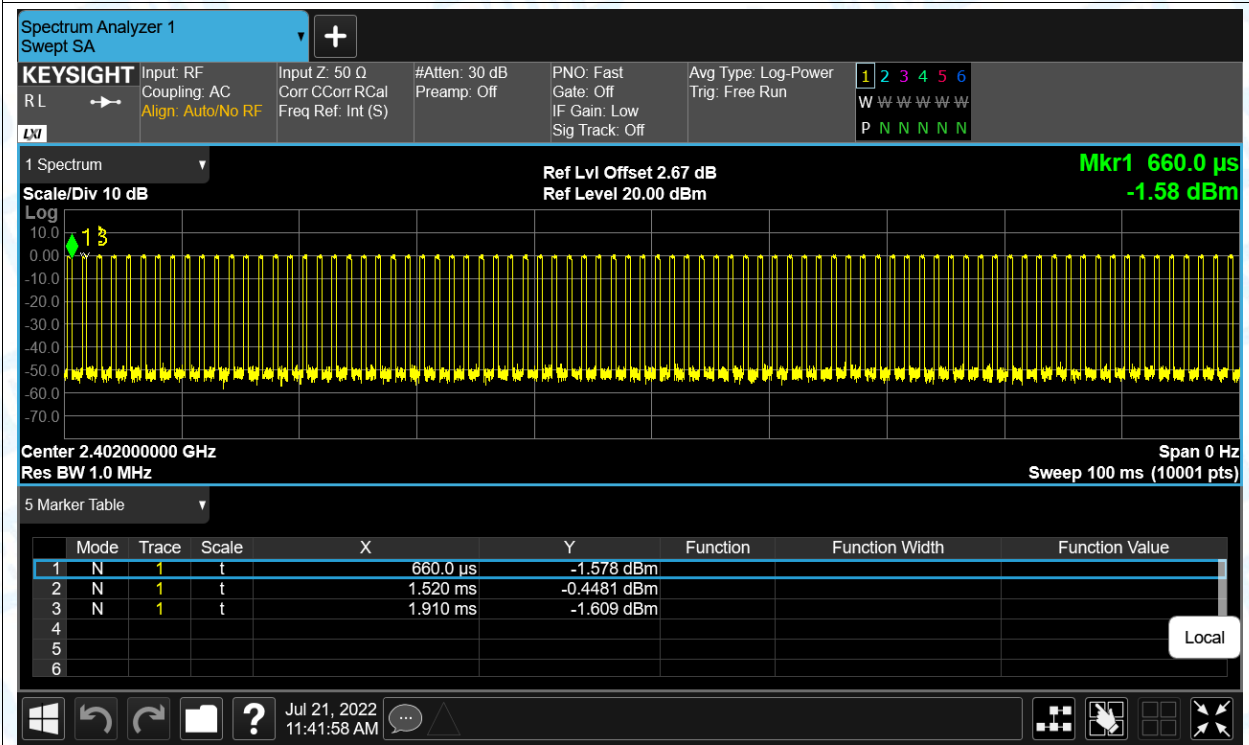
### Duty Cycle NVNT 2-DH1 2441MHz Ant1



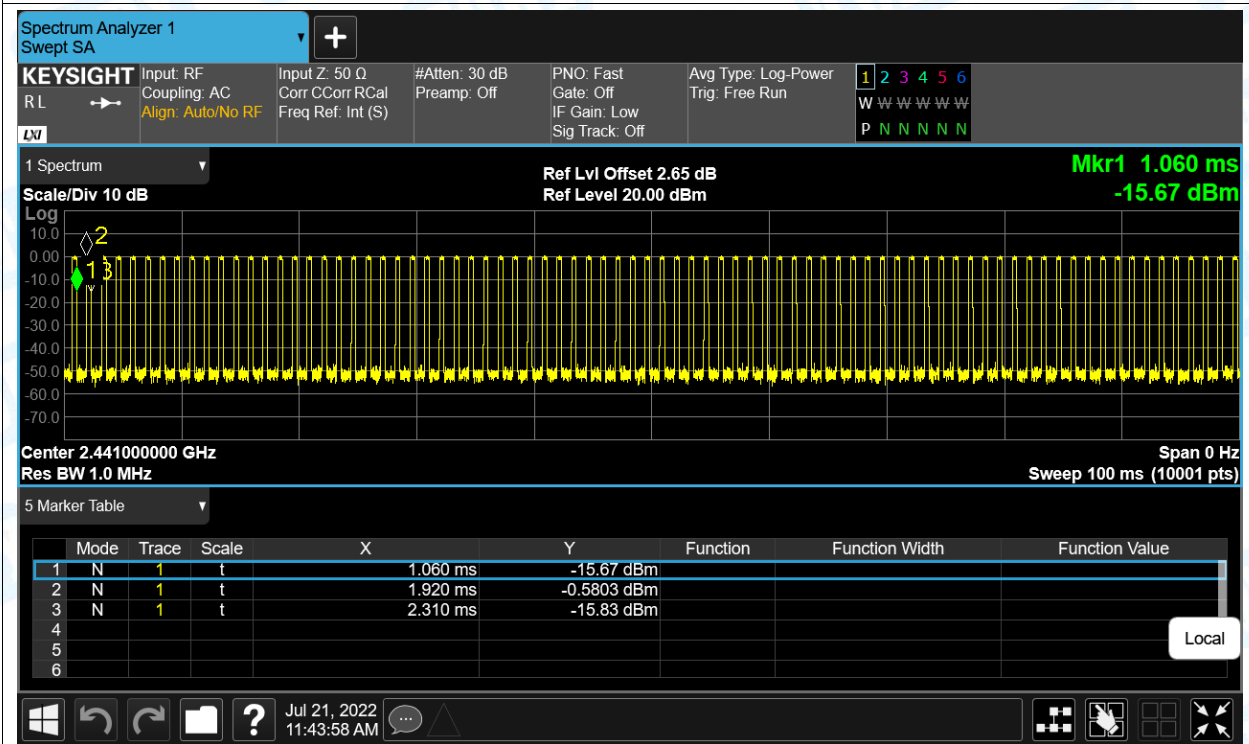
### Duty Cycle NVNT 2-DH1 2480MHz Ant1

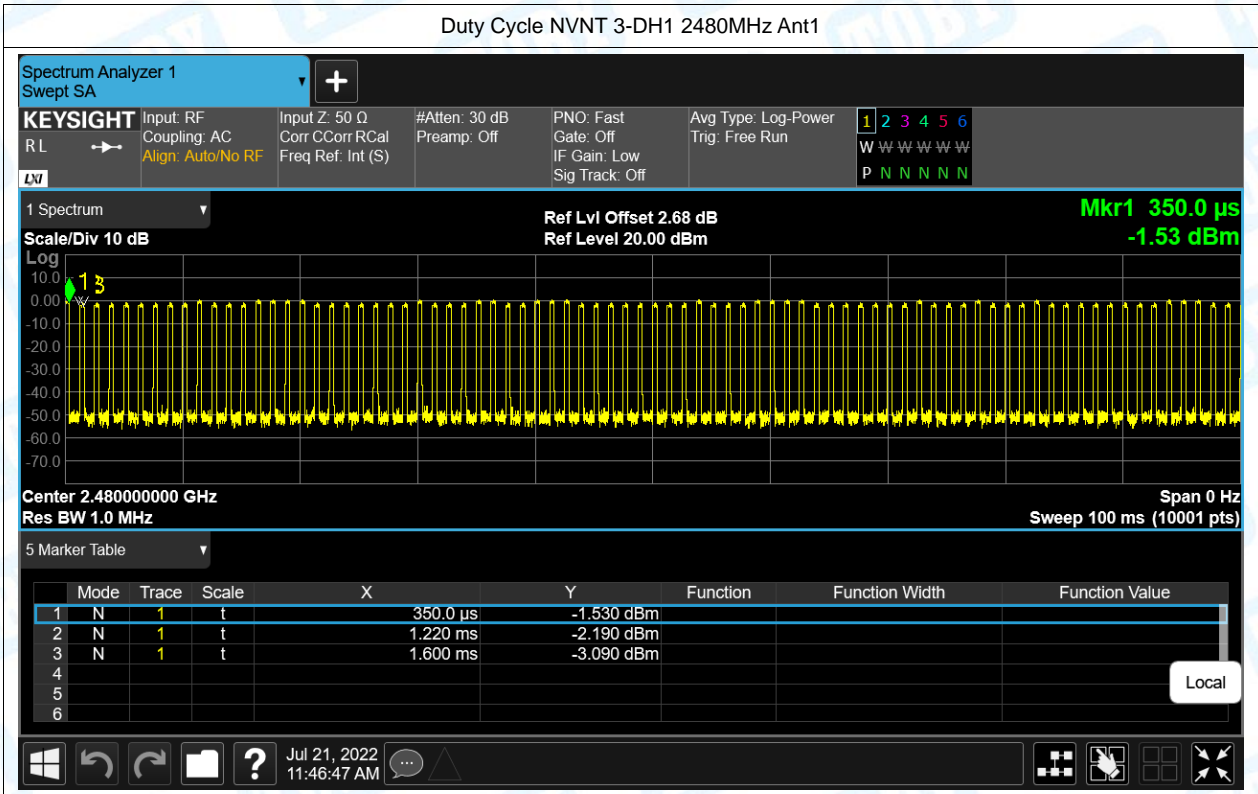


### Duty Cycle NVNT 3-DH1 2402MHz Ant1



### Duty Cycle NVNT 3-DH1 2441MHz Ant1





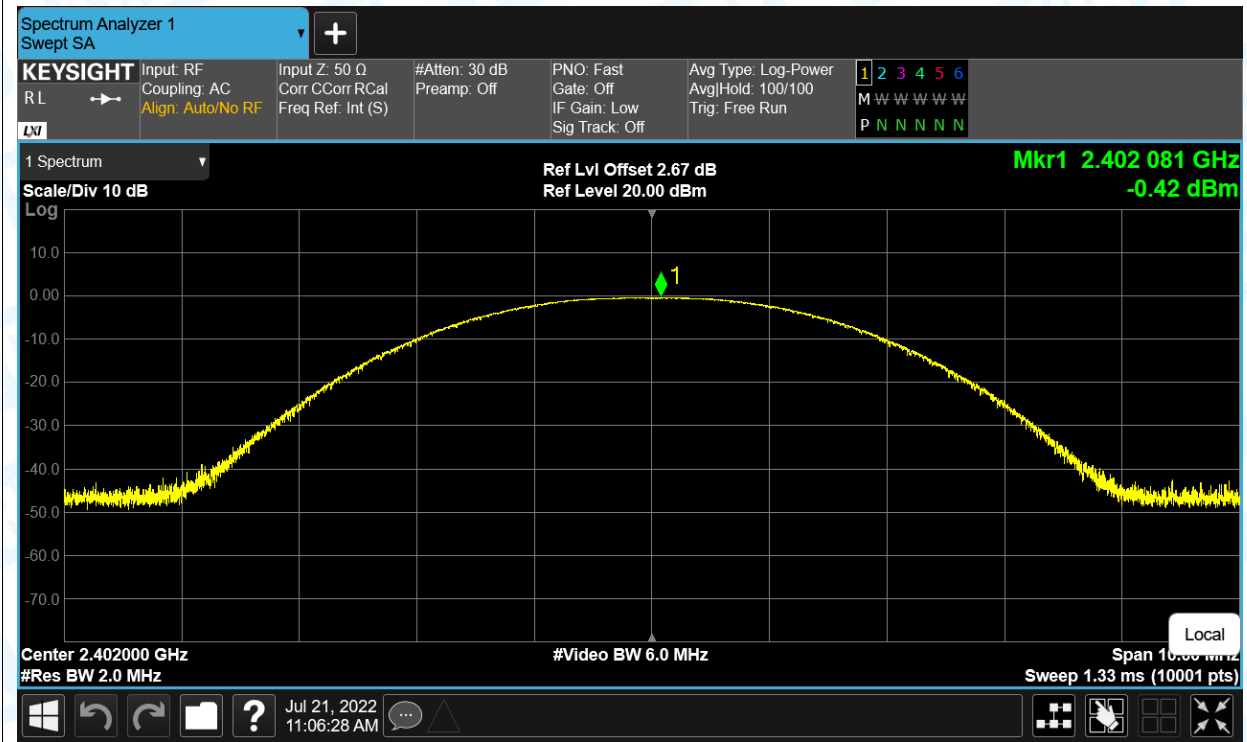


## 2. Maximum Conducted Output Power

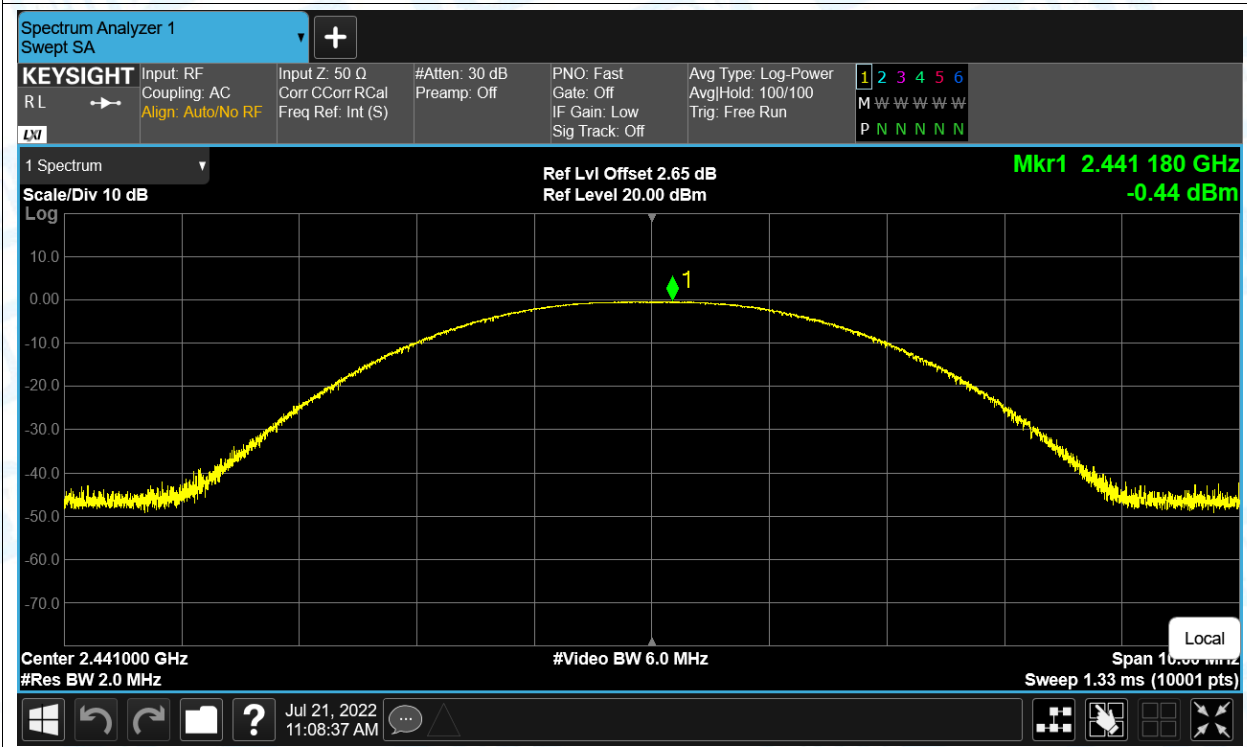
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	-0.416	21	Pass
NVNT	1-DH1	2441	Ant1	-0.44	21	Pass
NVNT	1-DH1	2480	Ant1	-2.027	21	Pass
NVNT	2-DH1	2402	Ant1	0.366	21	Pass
NVNT	2-DH1	2441	Ant1	0.336	21	Pass
NVNT	2-DH1	2480	Ant1	-1.186	21	Pass
NVNT	3-DH1	2402	Ant1	0.858	21	Pass
NVNT	3-DH1	2441	Ant1	0.788	21	Pass
NVNT	3-DH1	2480	Ant1	0.816	21	Pass

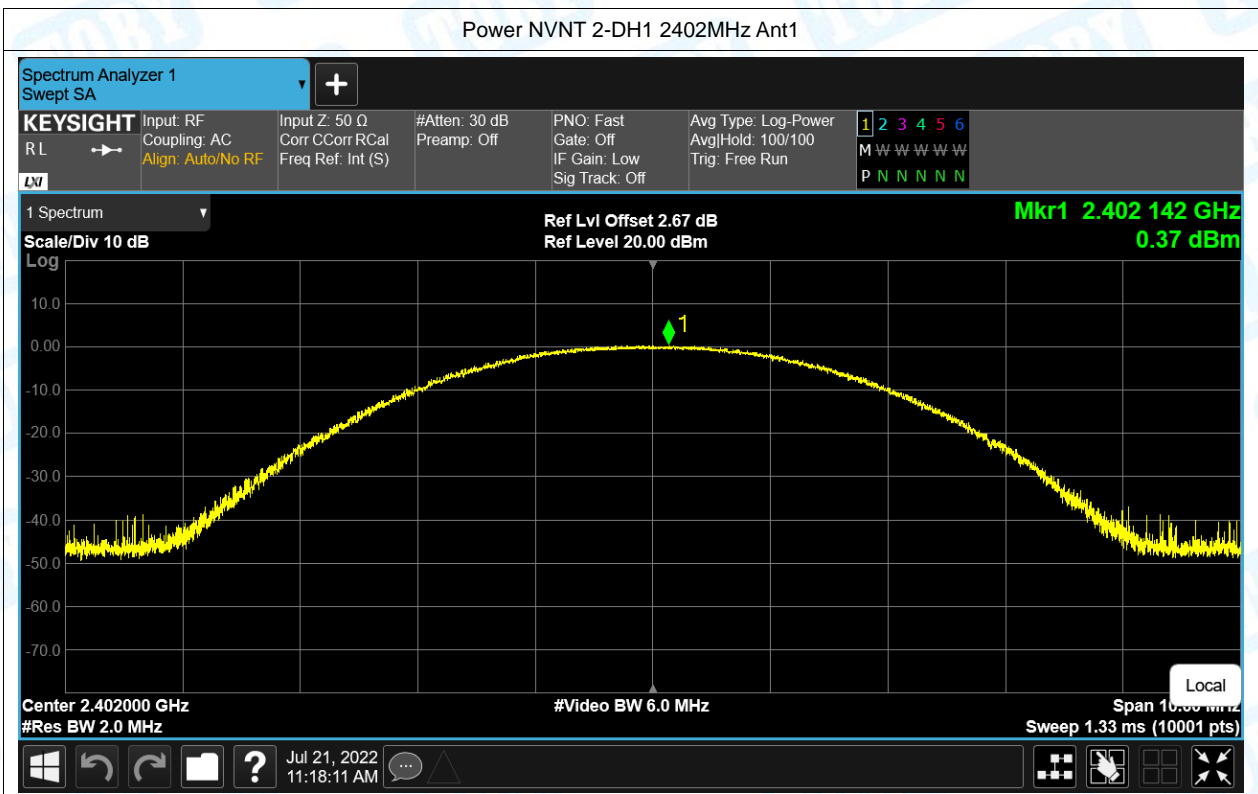
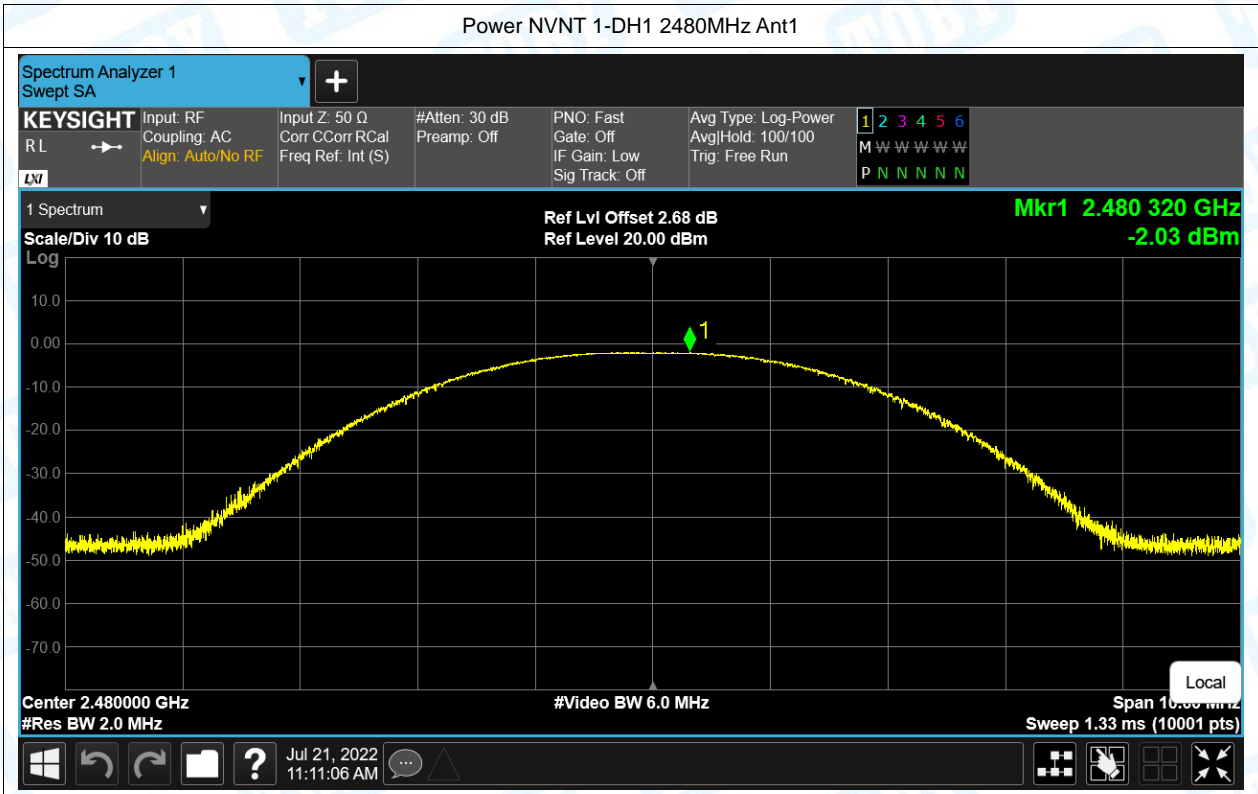
Test Graphs

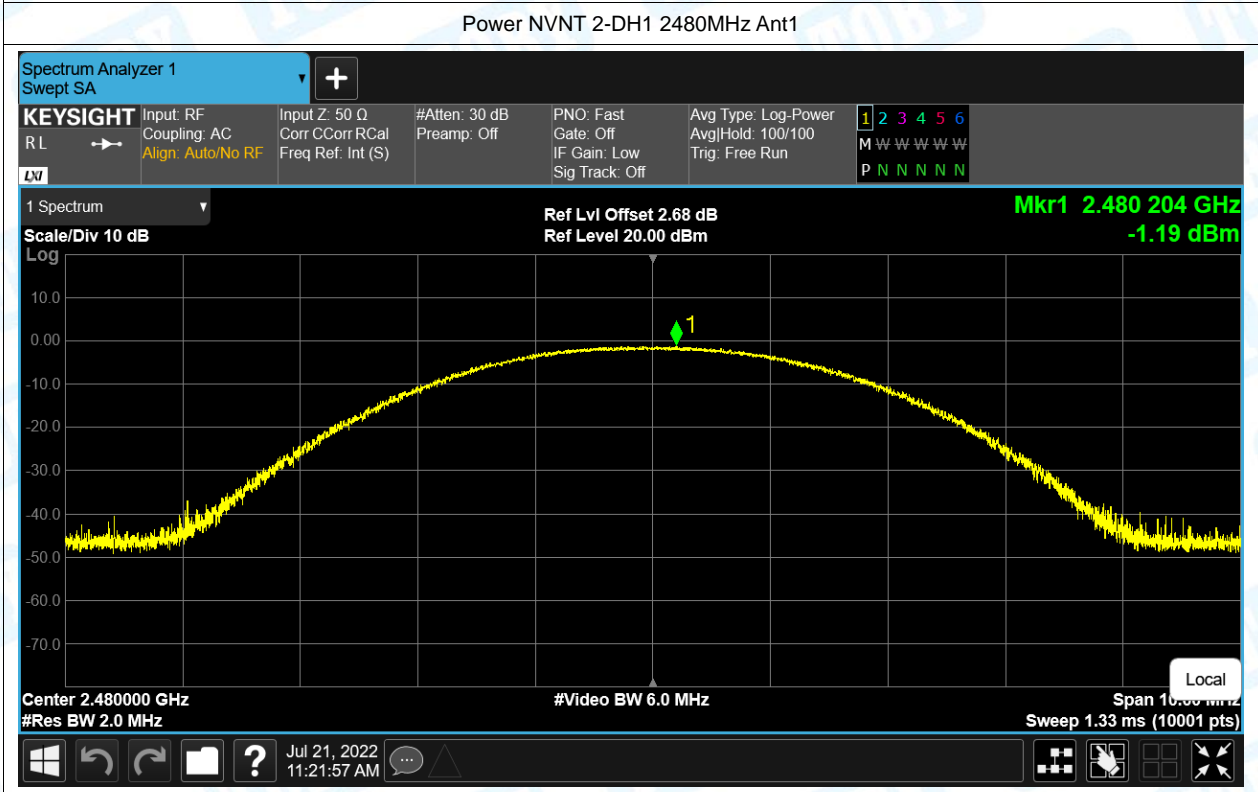
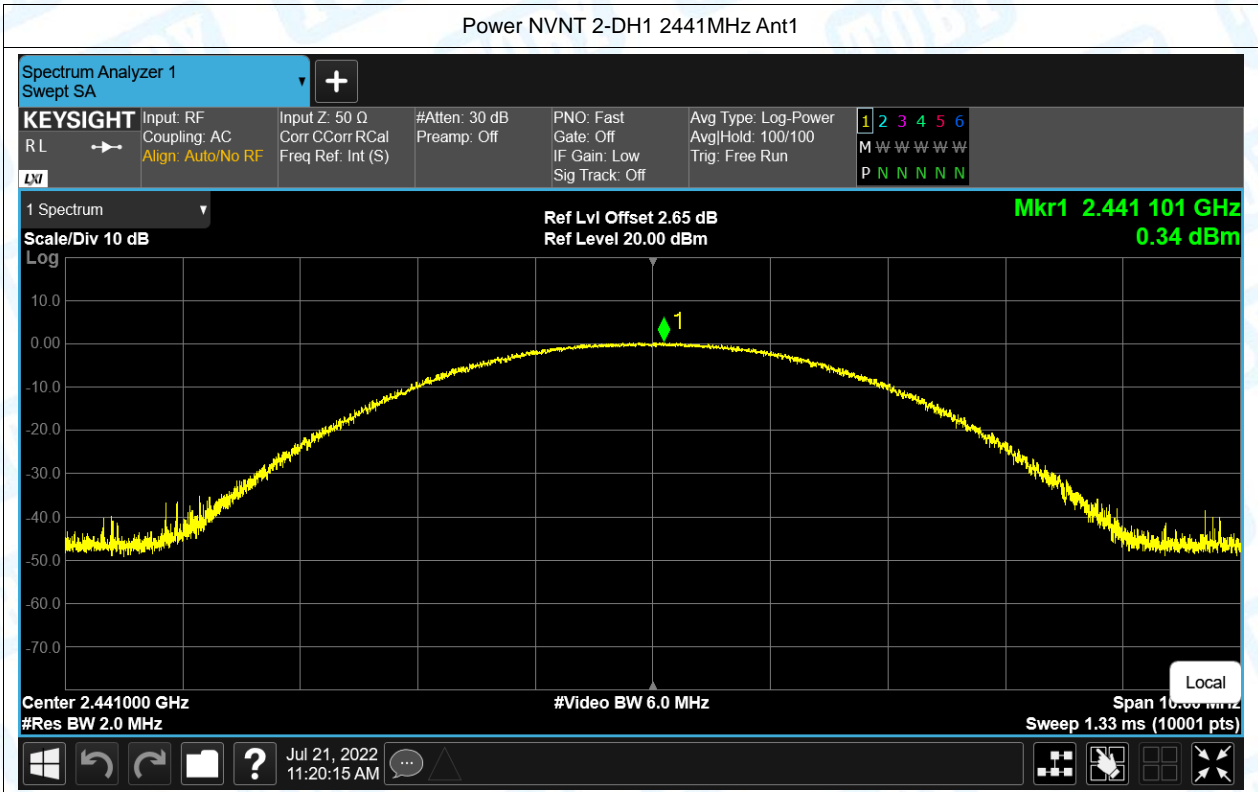
Power NVNT 1-DH1 2402MHz Ant1

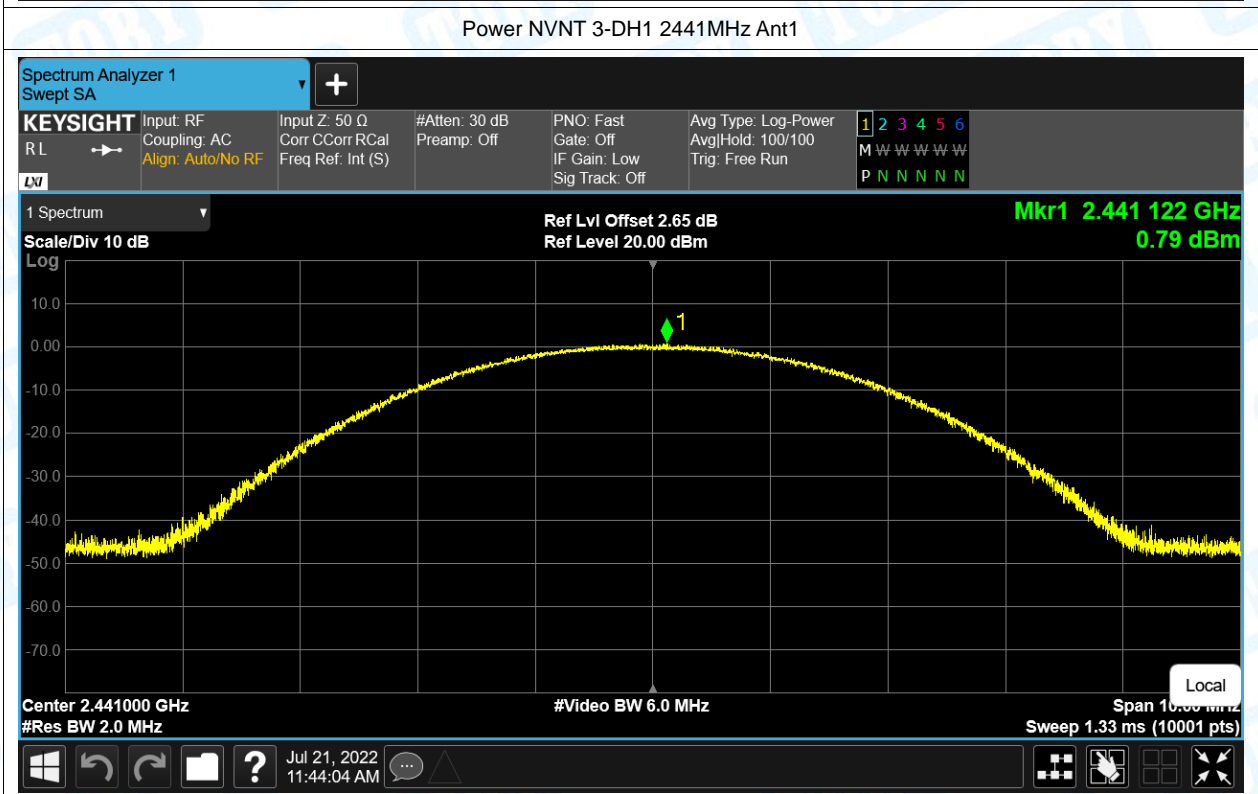
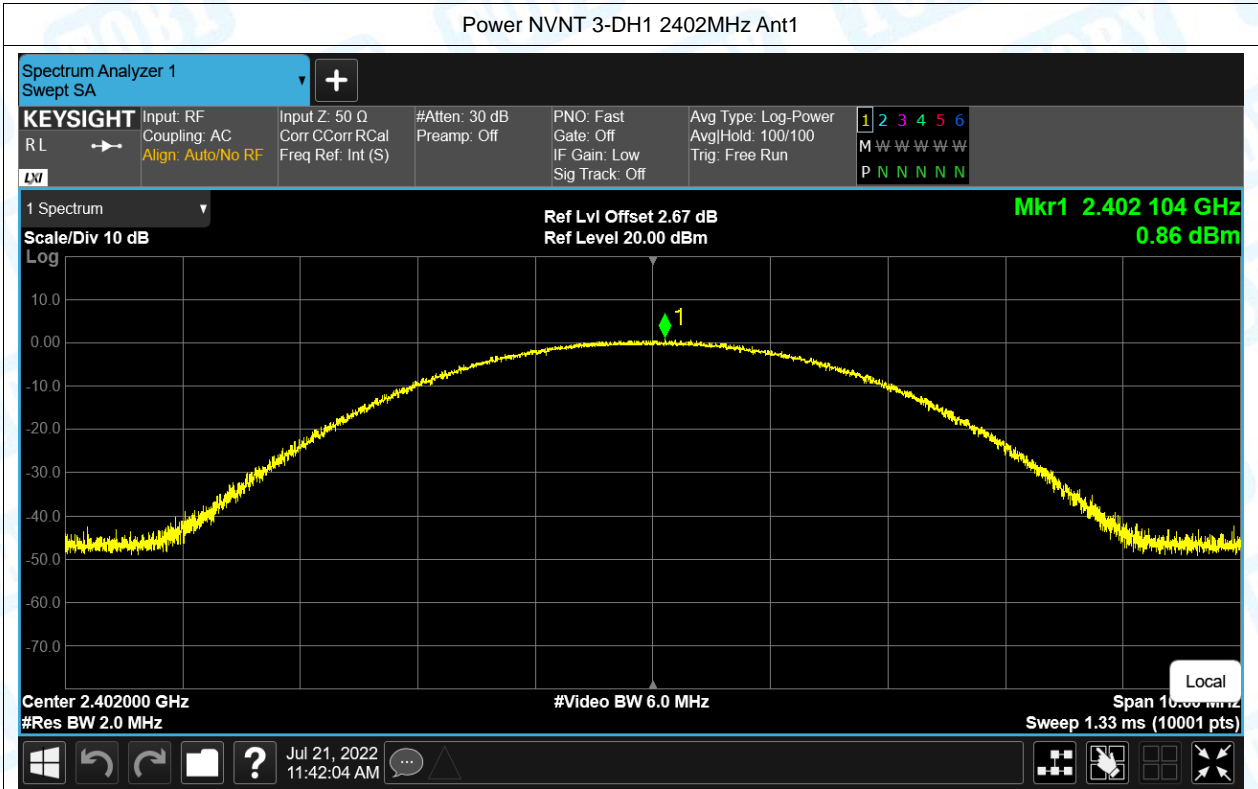


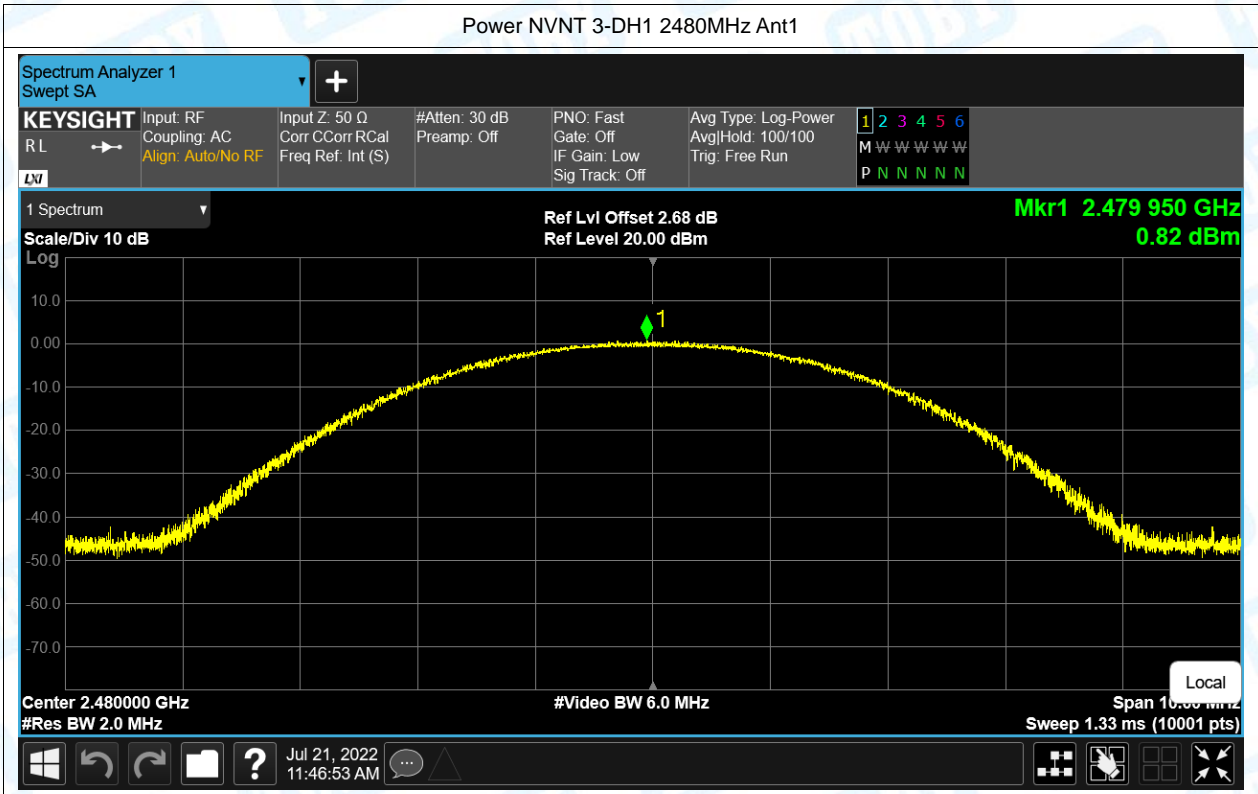
Power NVNT 1-DH1 2441MHz Ant1









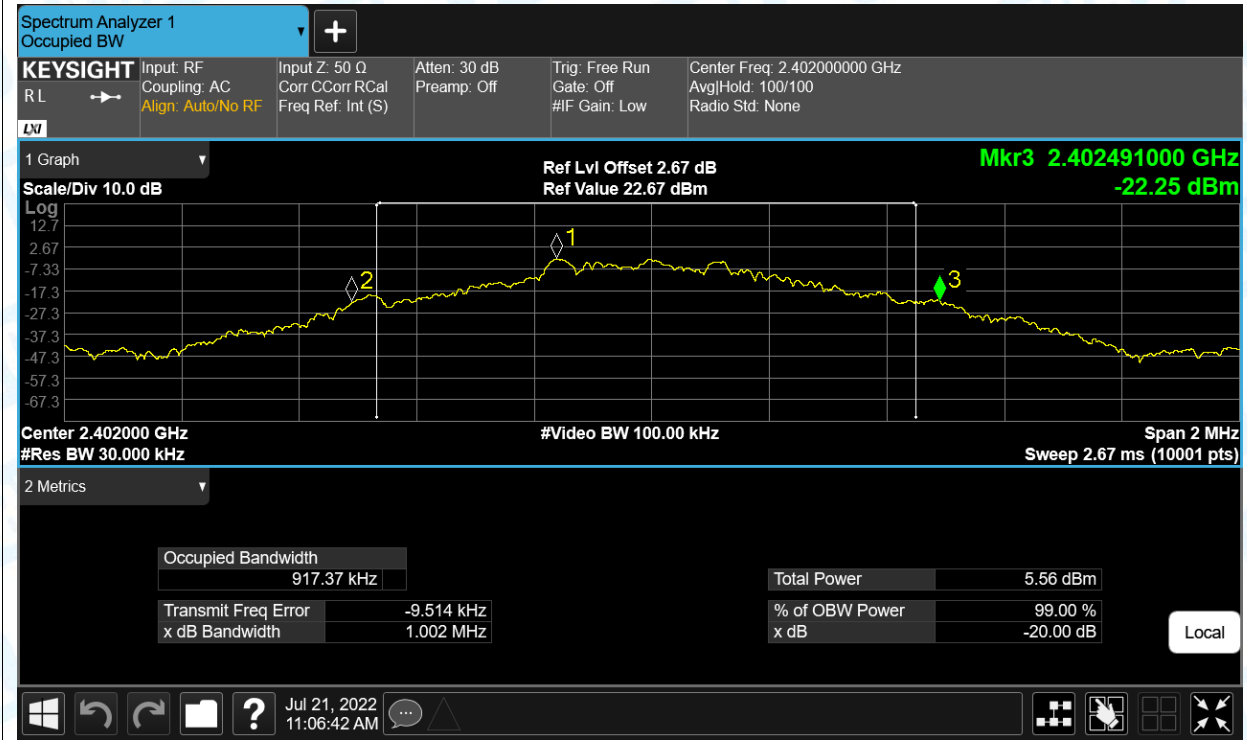


### 3. -20dB Bandwidth

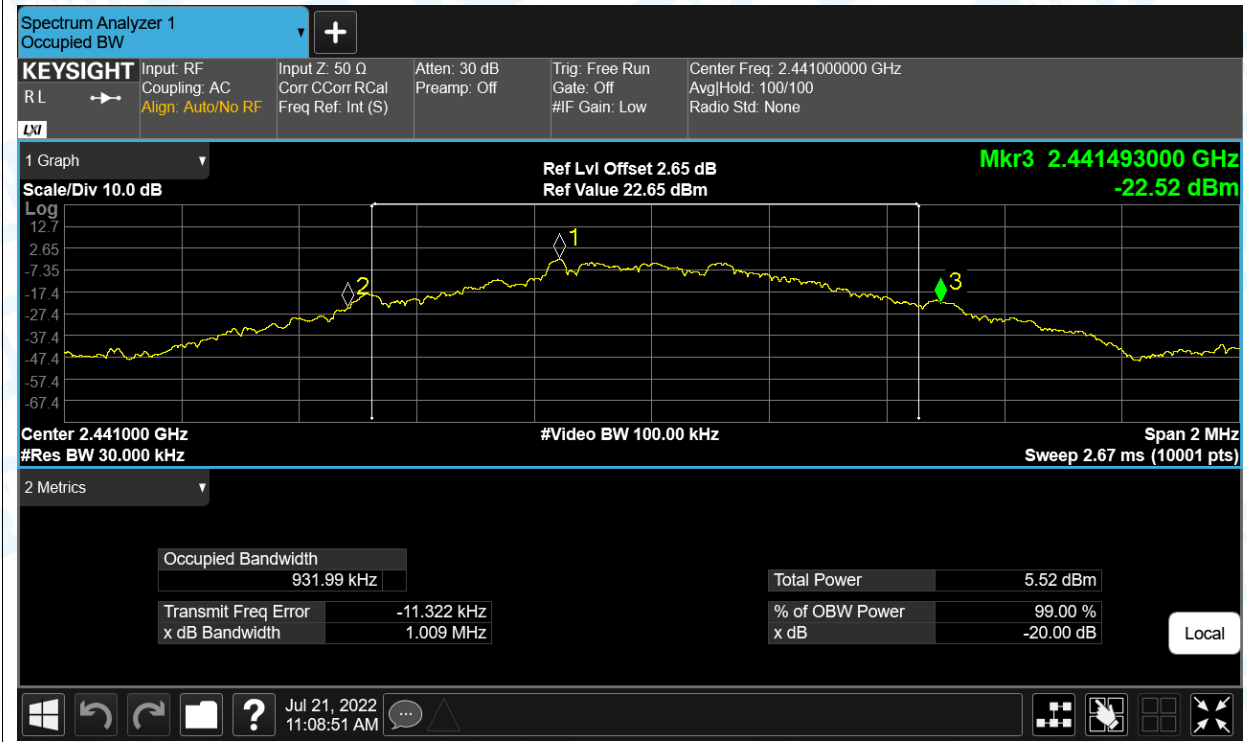
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	1	0	Pass
NVNT	1-DH1	2441	Ant1	1.01	0	Pass
NVNT	1-DH1	2480	Ant1	1.03	0	Pass
NVNT	2-DH1	2402	Ant1	1.27	0	Pass
NVNT	2-DH1	2441	Ant1	1.28	0	Pass
NVNT	2-DH1	2480	Ant1	1.27	0	Pass
NVNT	3-DH1	2402	Ant1	1.26	0	Pass
NVNT	3-DH1	2441	Ant1	1.26	0	Pass
NVNT	3-DH1	2480	Ant1	1.22	0	Pass

Test Graphs

-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1

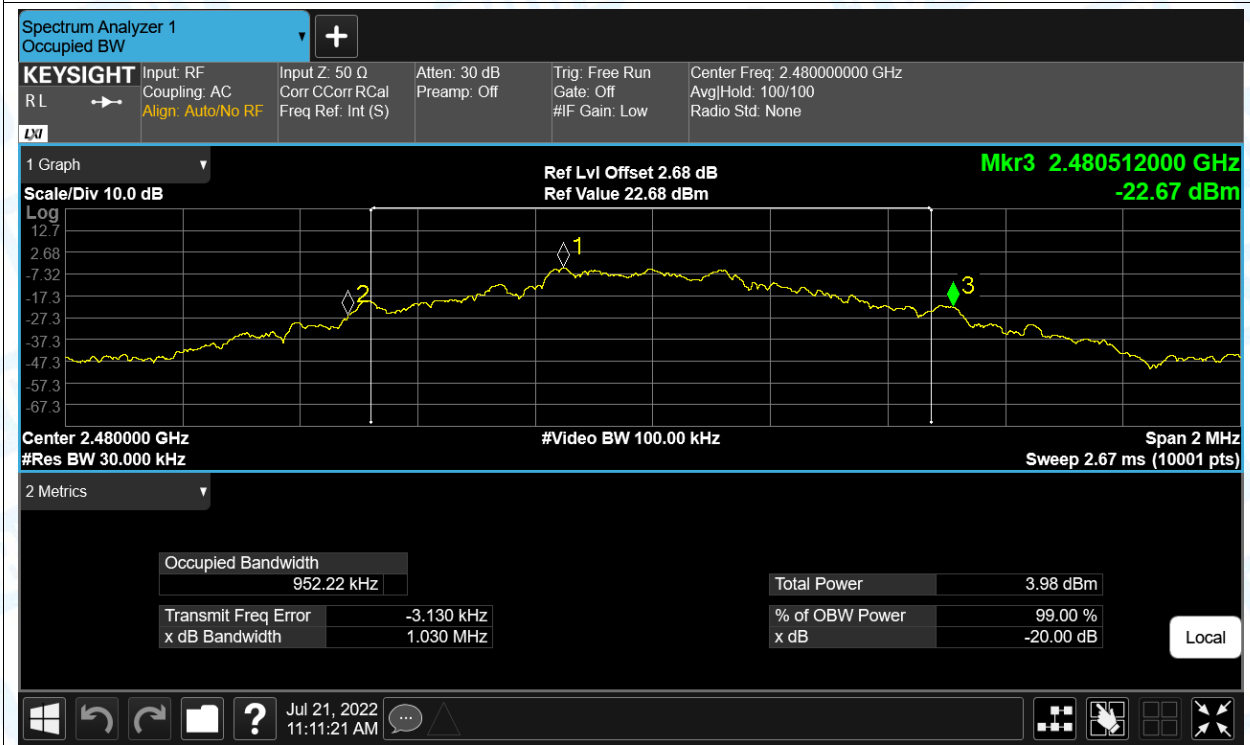


-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1

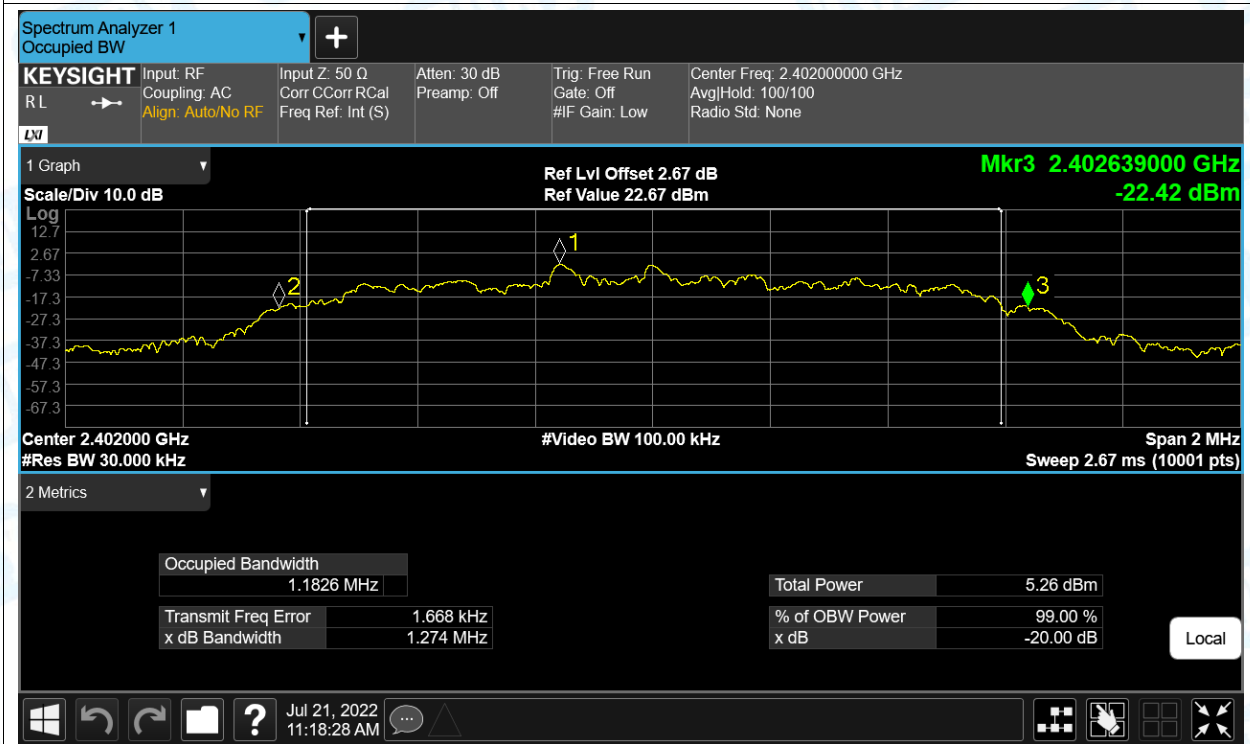




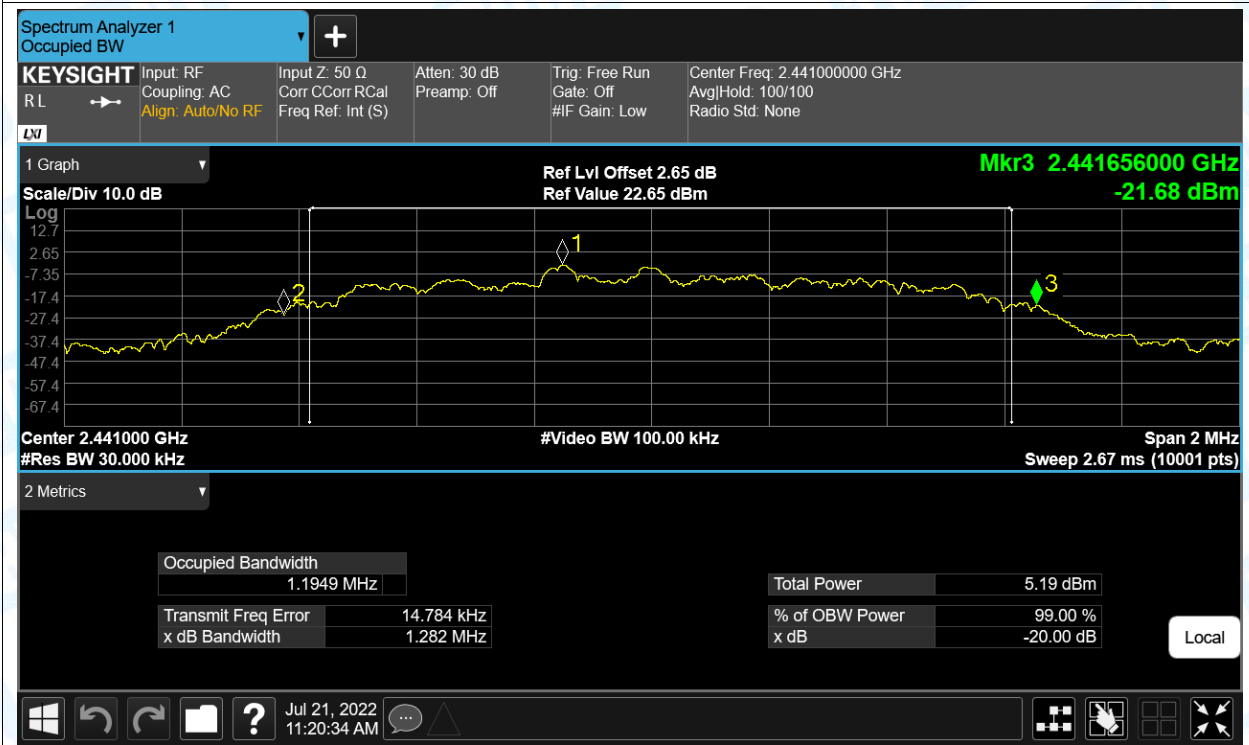
### -20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



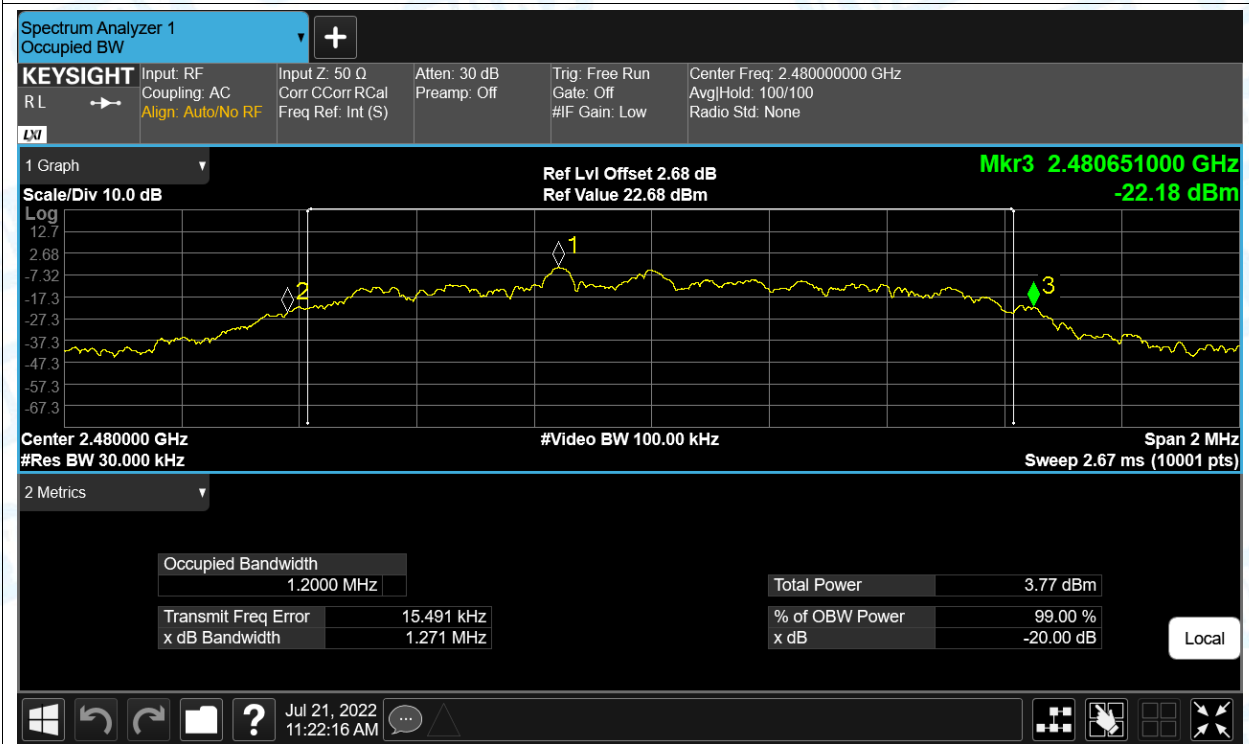
### -20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



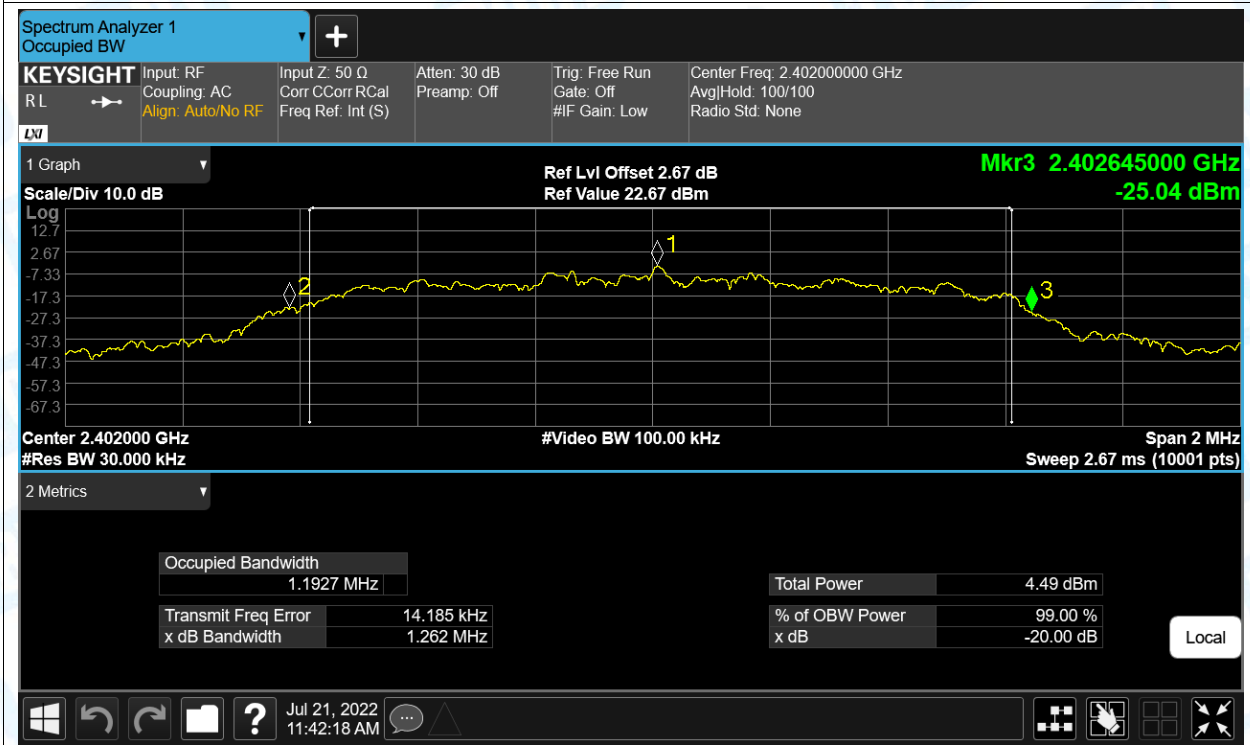
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



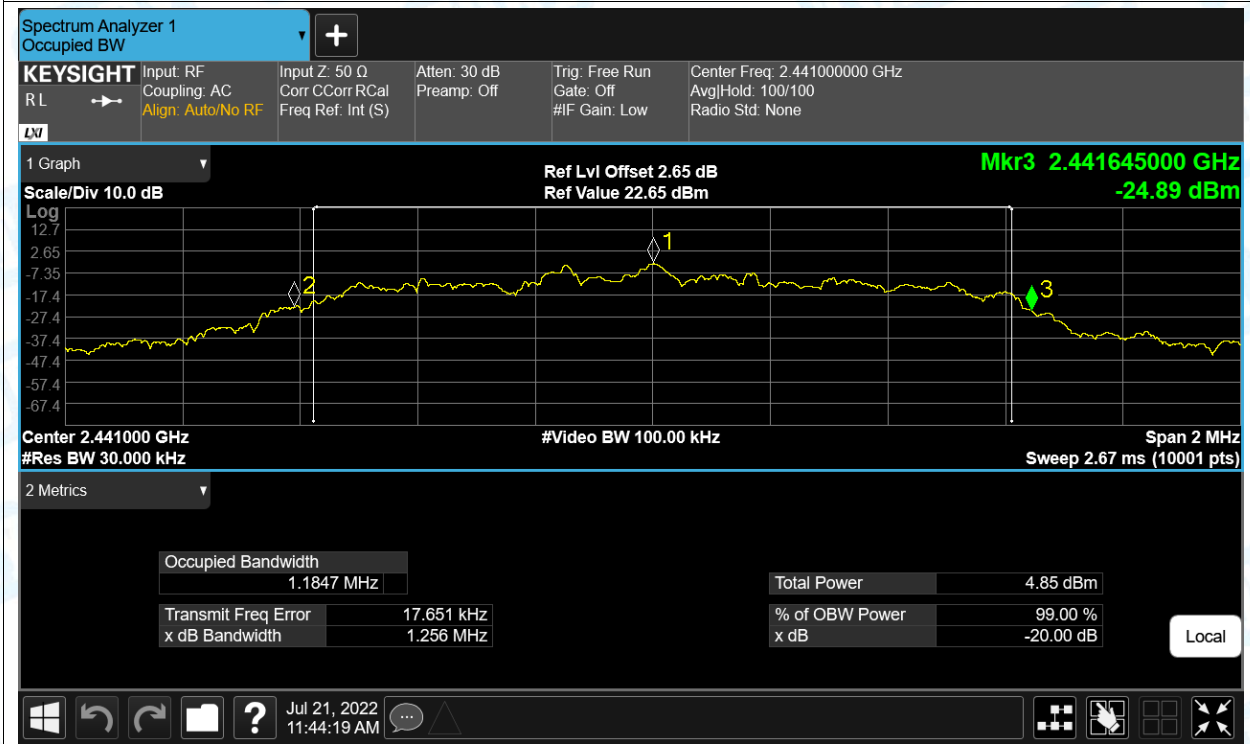
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

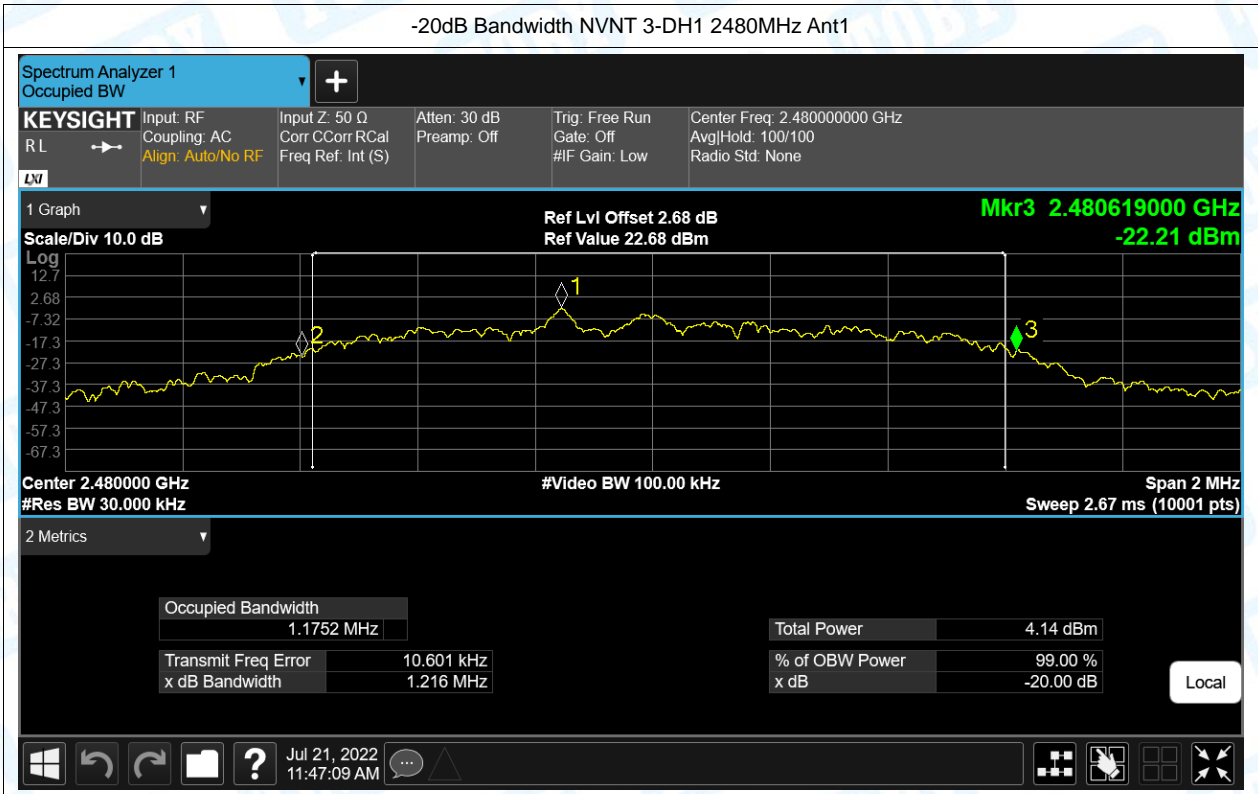


### -20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



### -20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



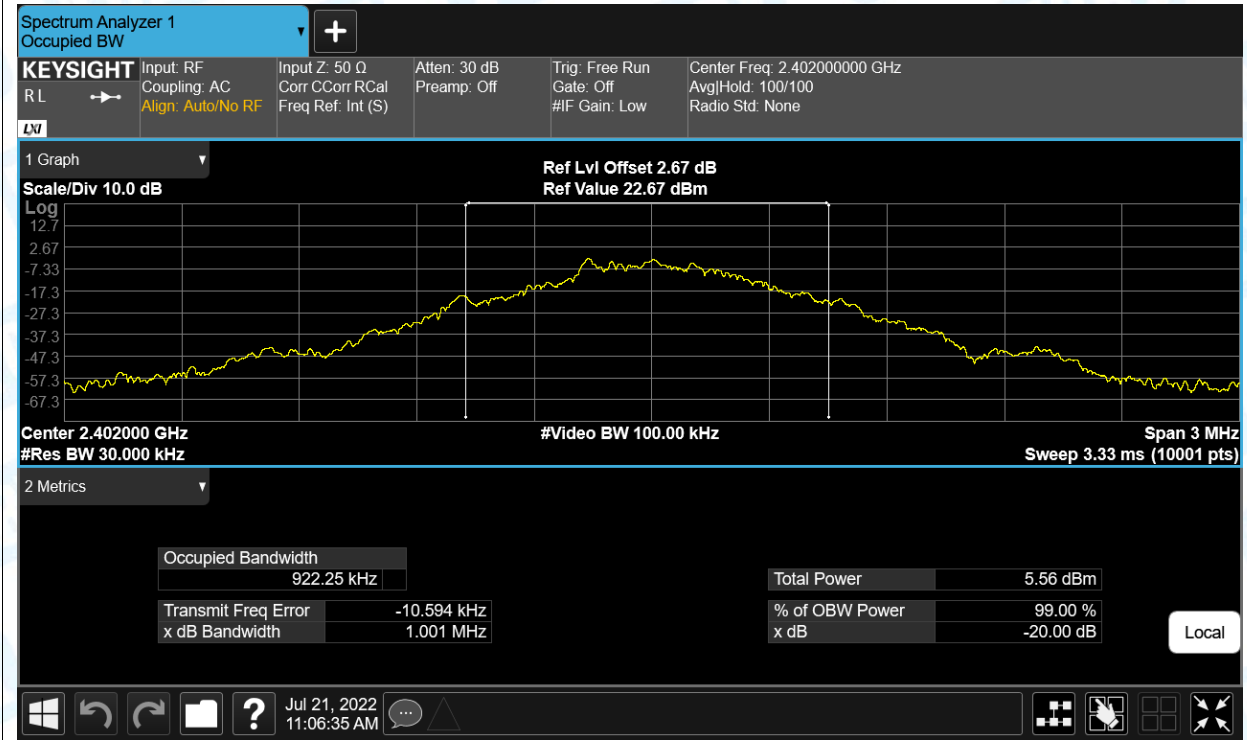


#### 4. Occupied Channel Bandwidth

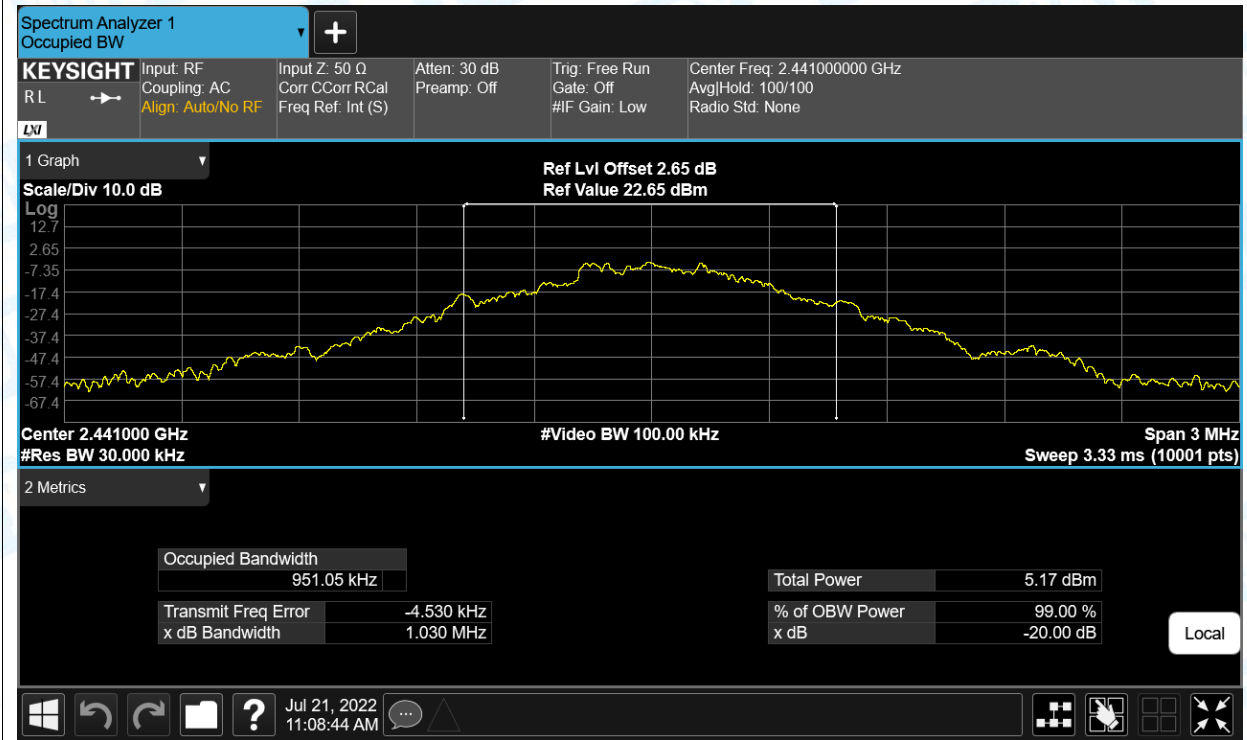
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.922
NVNT	1-DH1	2441	Ant1	0.951
NVNT	1-DH1	2480	Ant1	0.964
NVNT	2-DH1	2402	Ant1	1.202
NVNT	2-DH1	2441	Ant1	1.157
NVNT	2-DH1	2480	Ant1	1.18
NVNT	3-DH1	2402	Ant1	1.166
NVNT	3-DH1	2441	Ant1	1.183
NVNT	3-DH1	2480	Ant1	1.175

Test Graphs

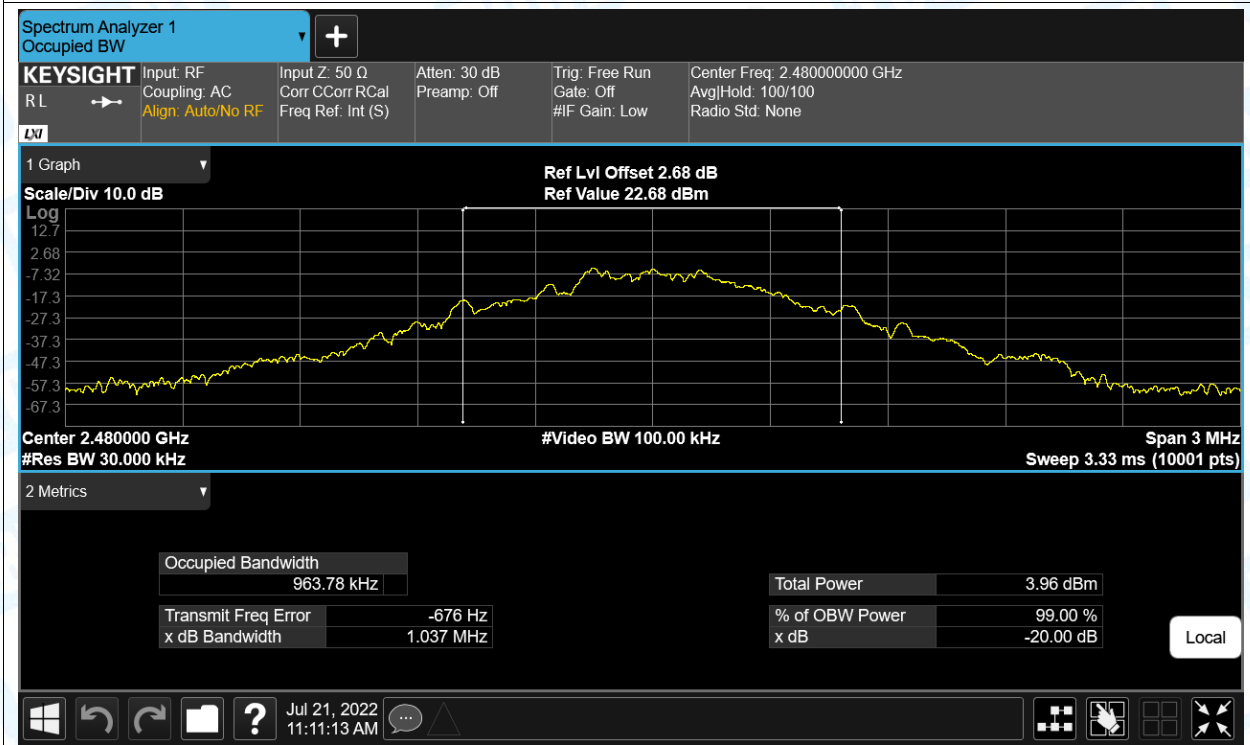
OBW NVNT 1-DH1 2402MHz Ant1



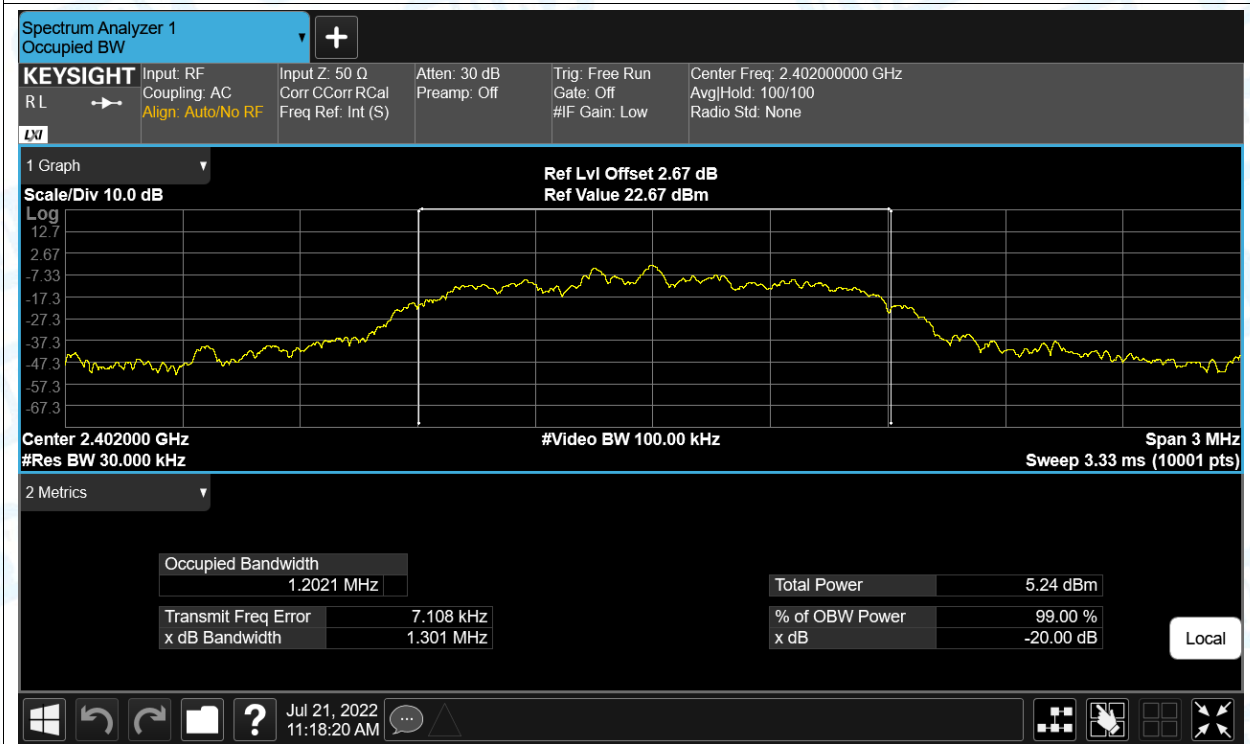
OBW NVNT 1-DH1 2441MHz Ant1

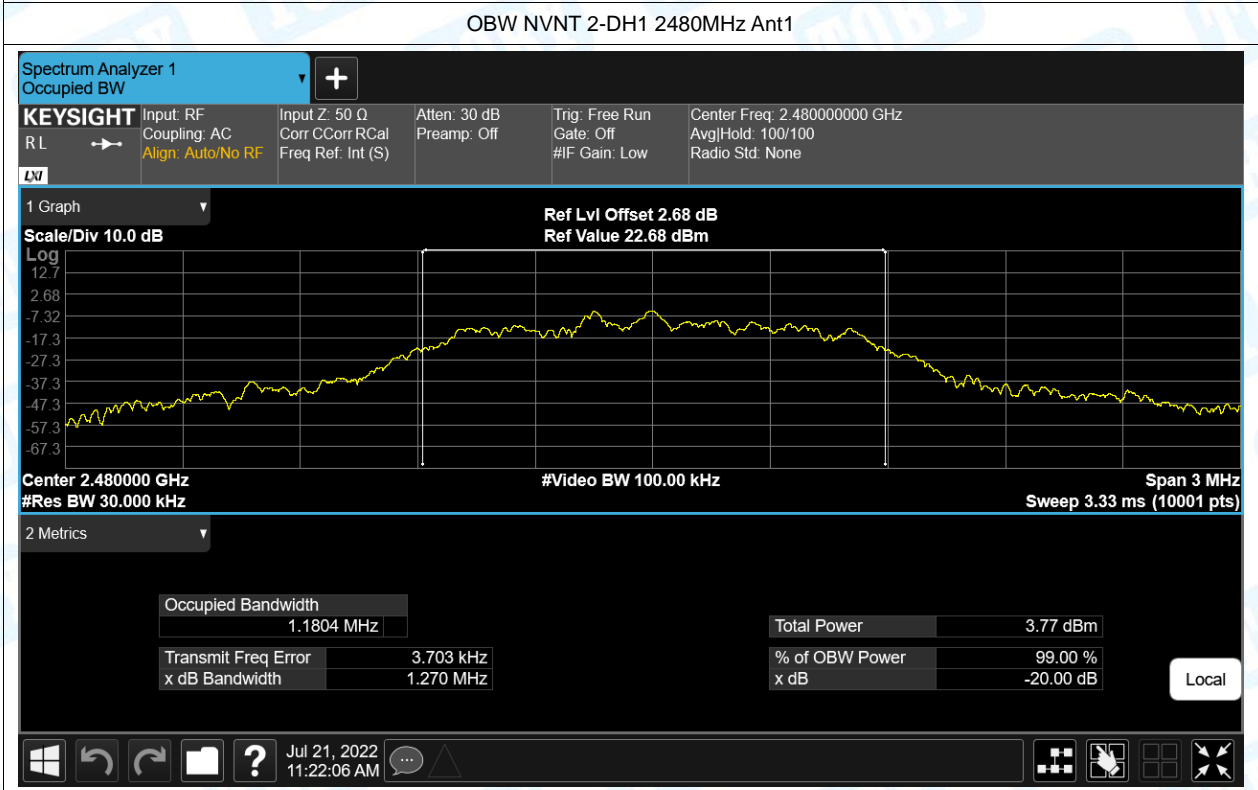
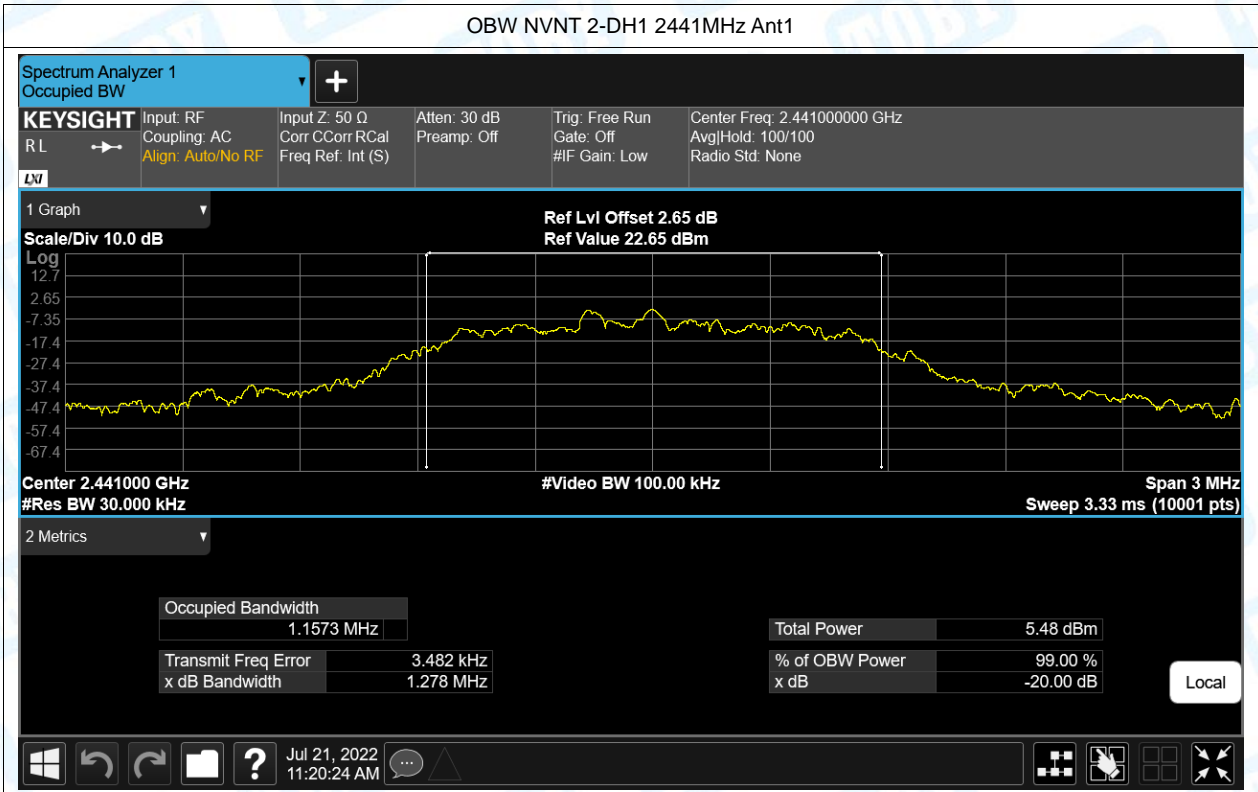


### OBW NVNT 1-DH1 2480MHz Ant1

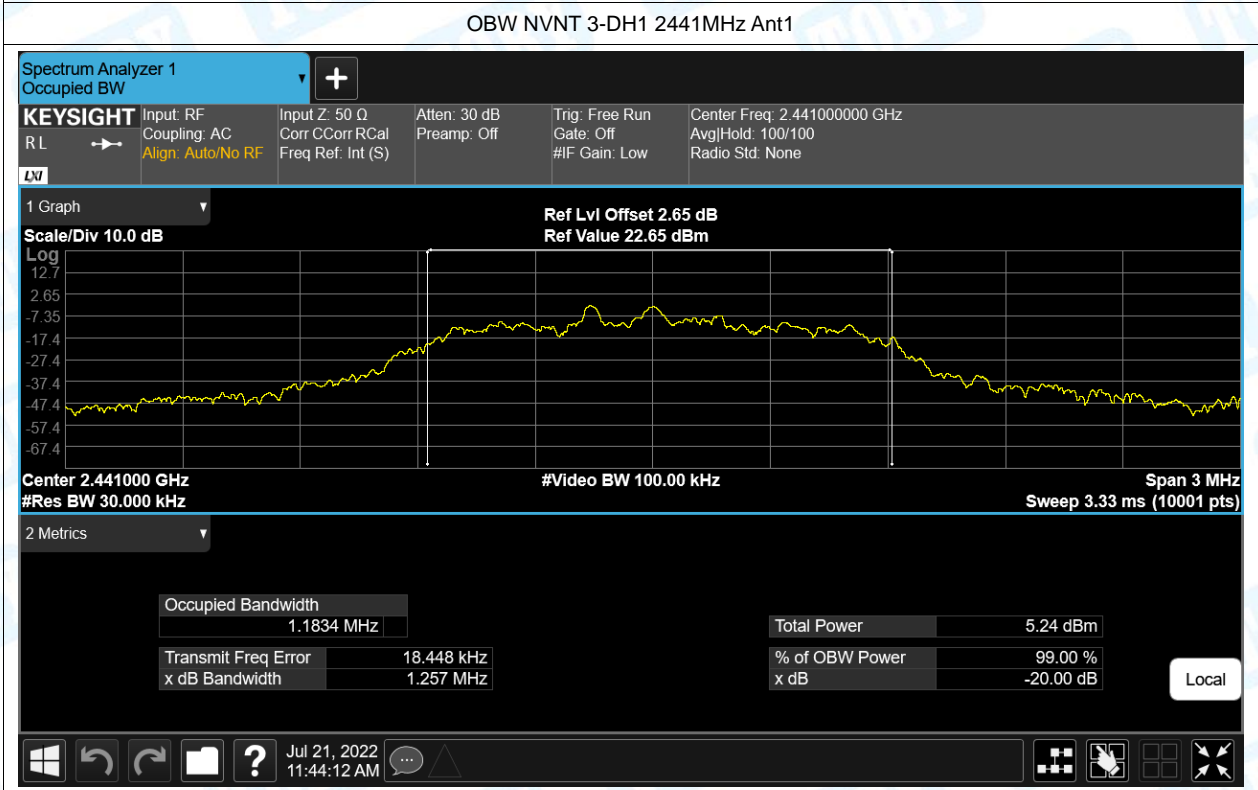


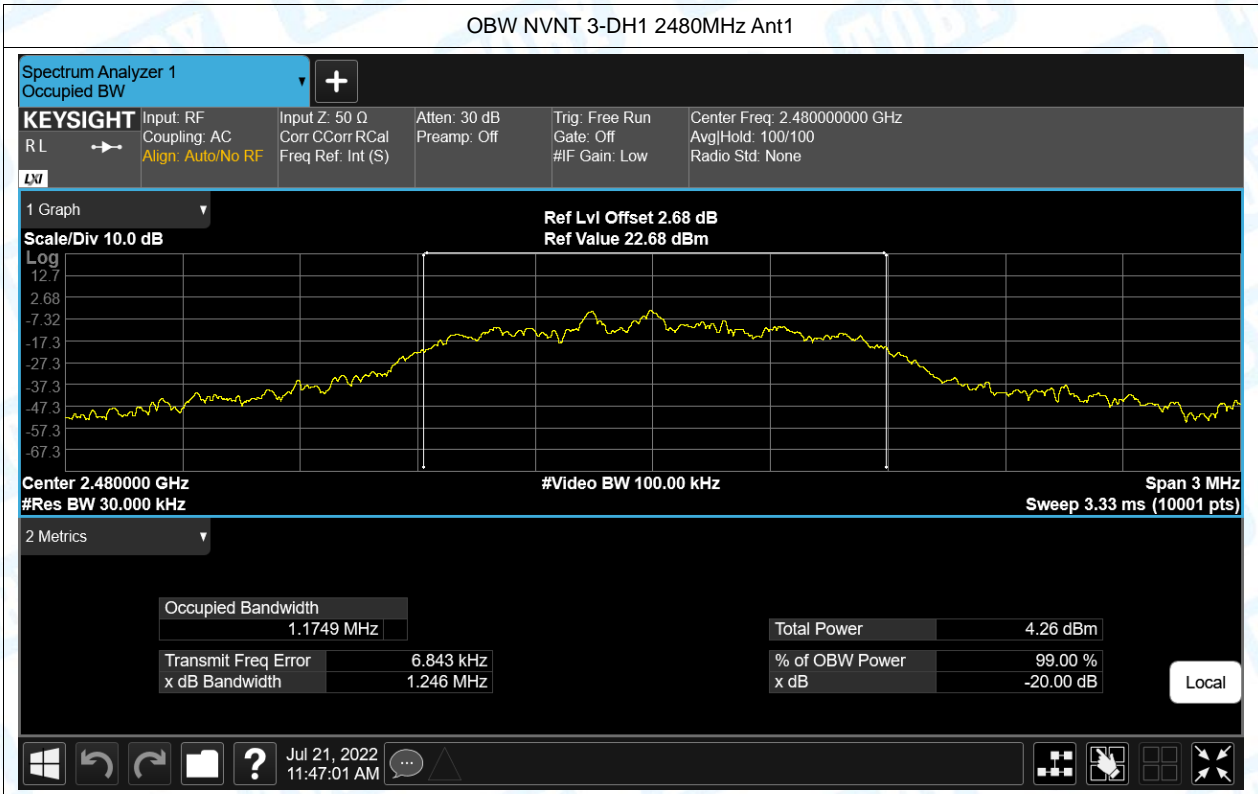
### OBW NVNT 2-DH1 2402MHz Ant1









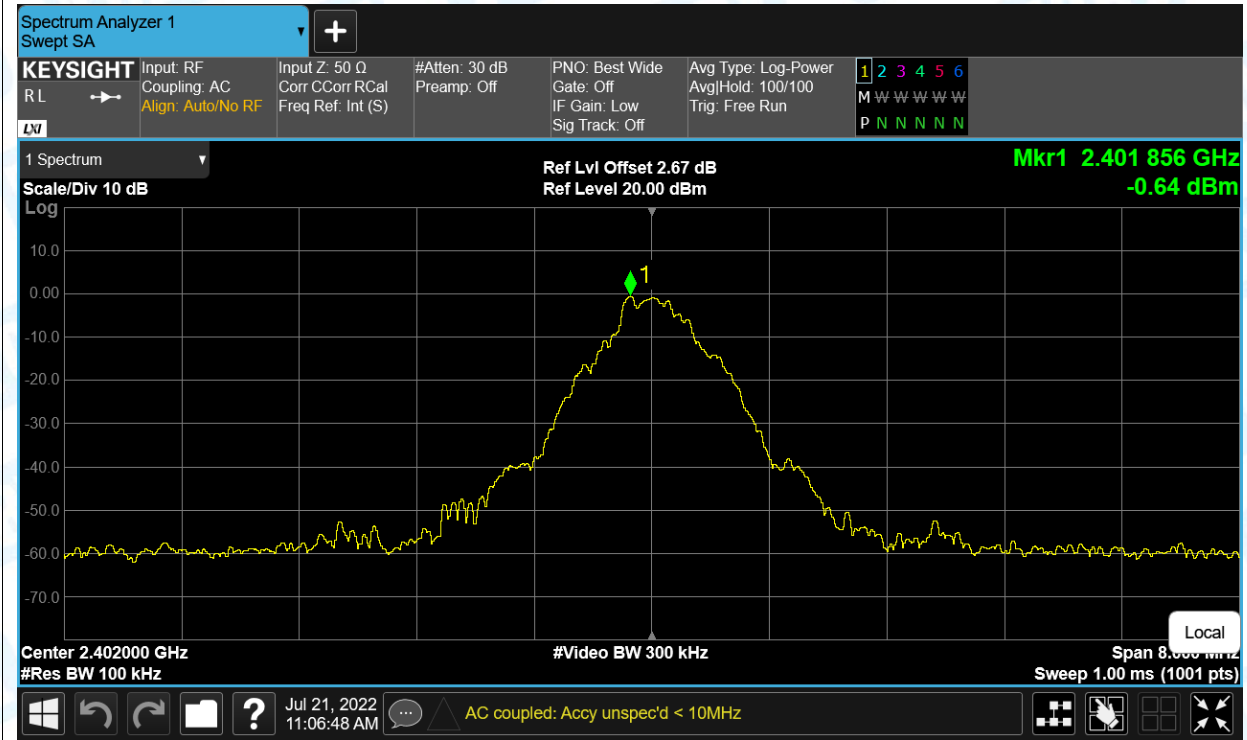


## 5. Band Edge

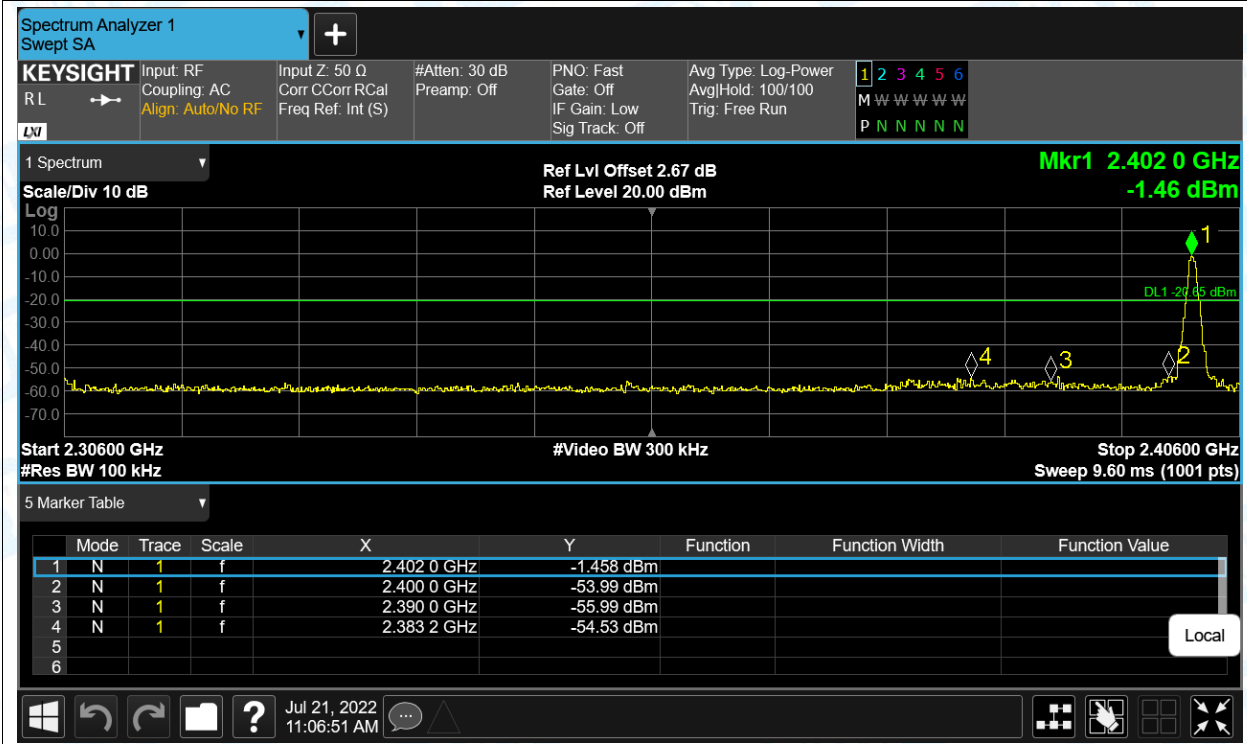
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-53.89	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-53.09	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-53.46	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-52.29	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-53.9	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-52.24	-20	Pass

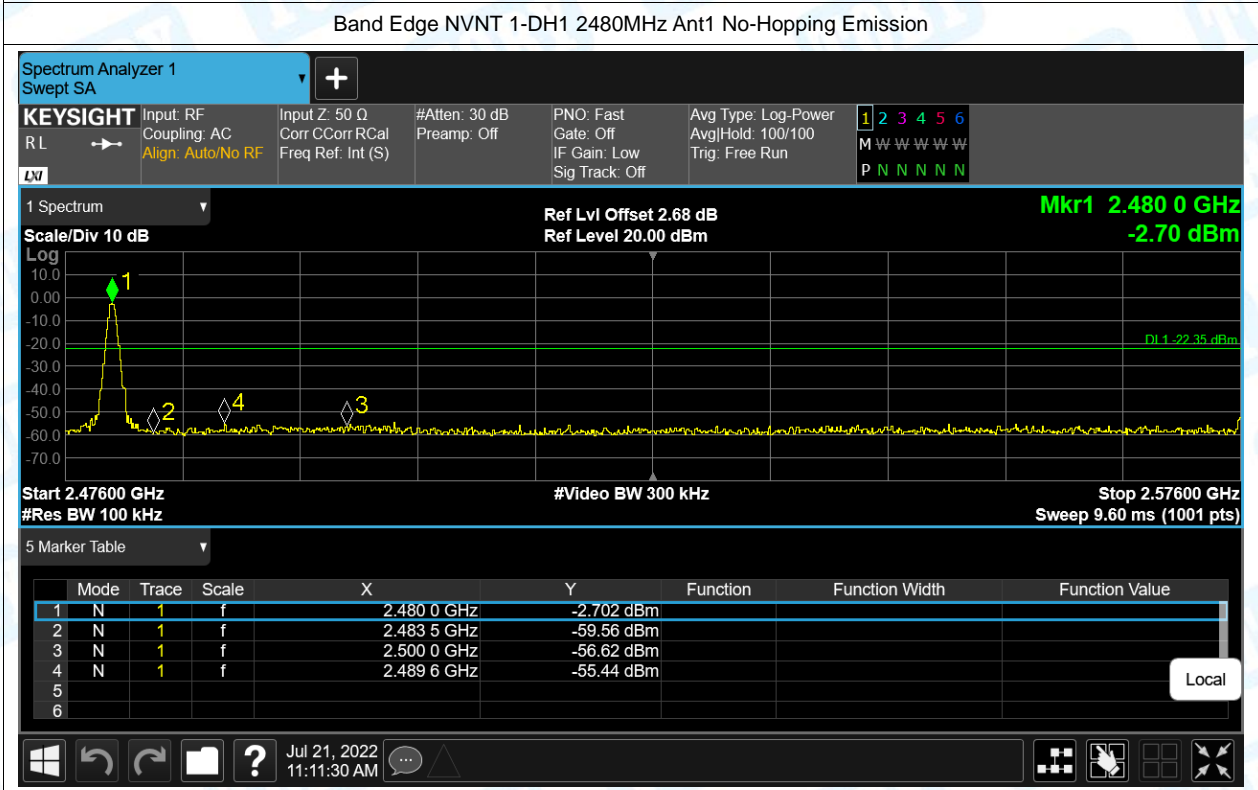
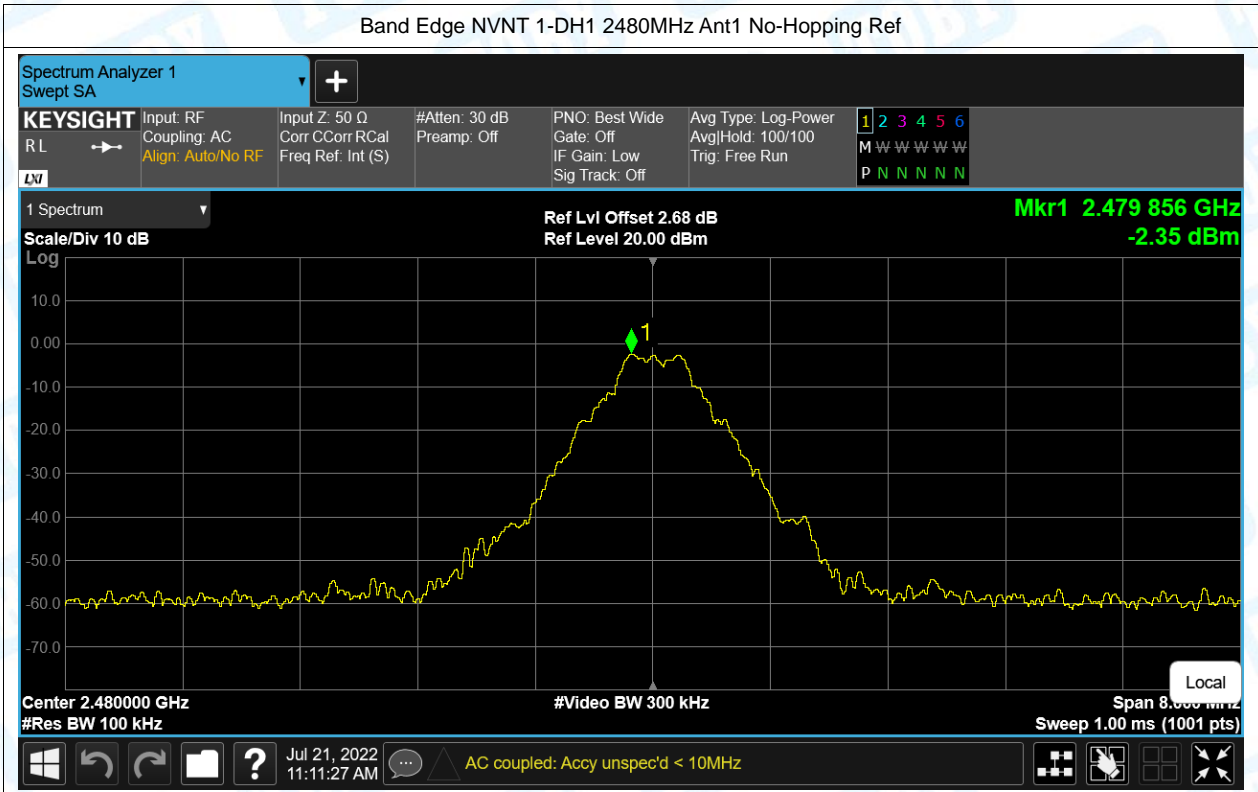
Test Graphs

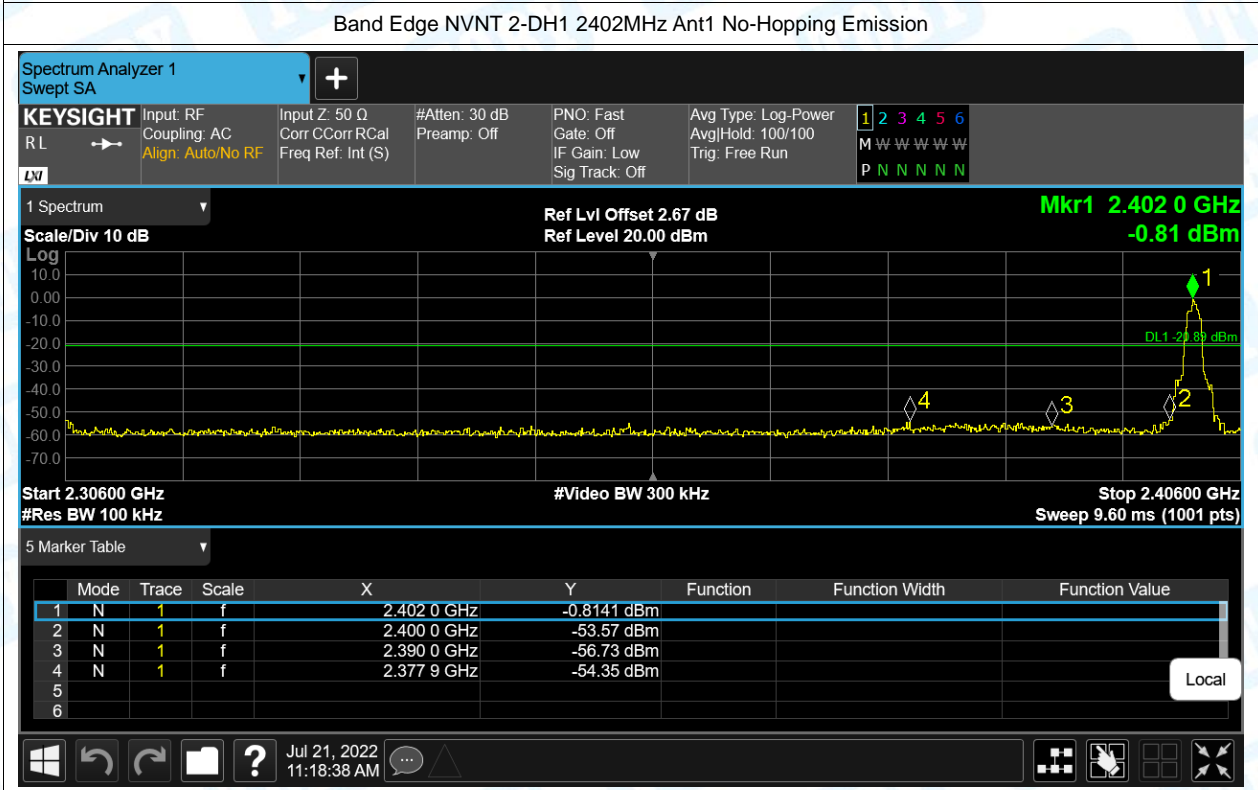
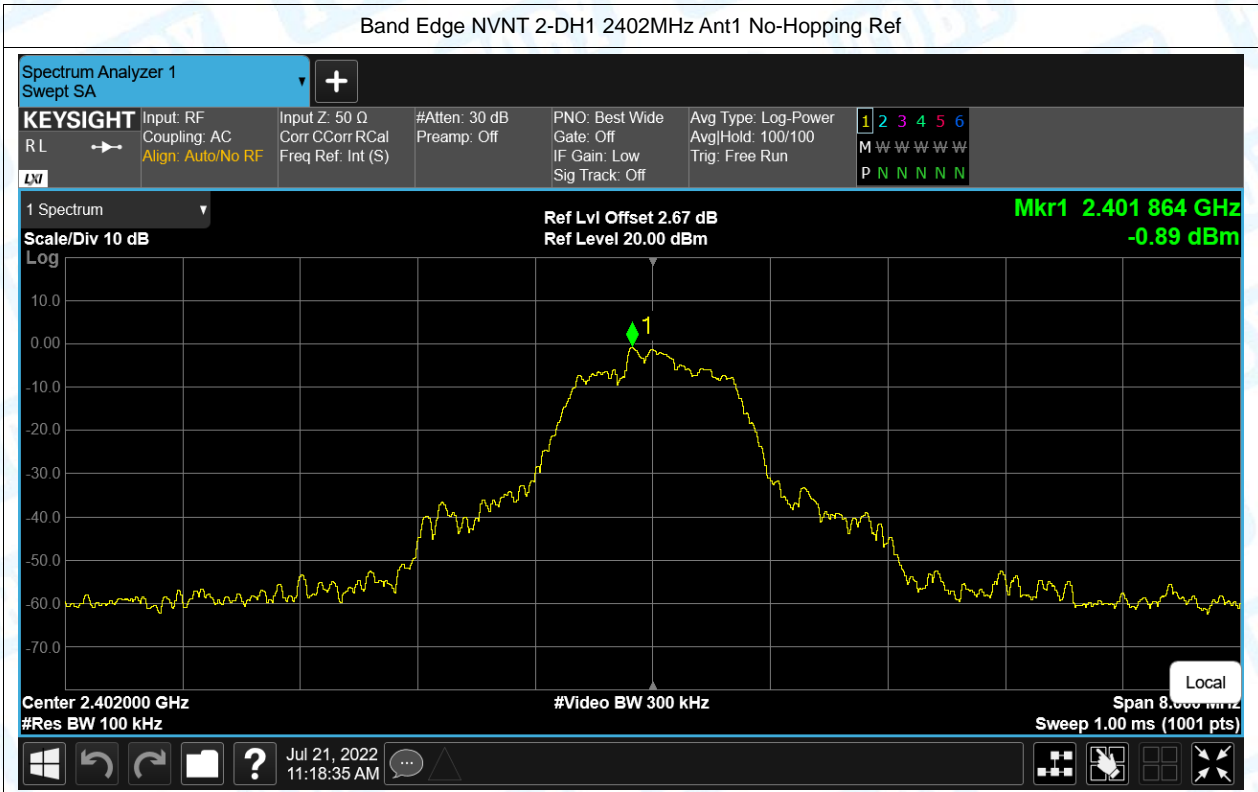
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref

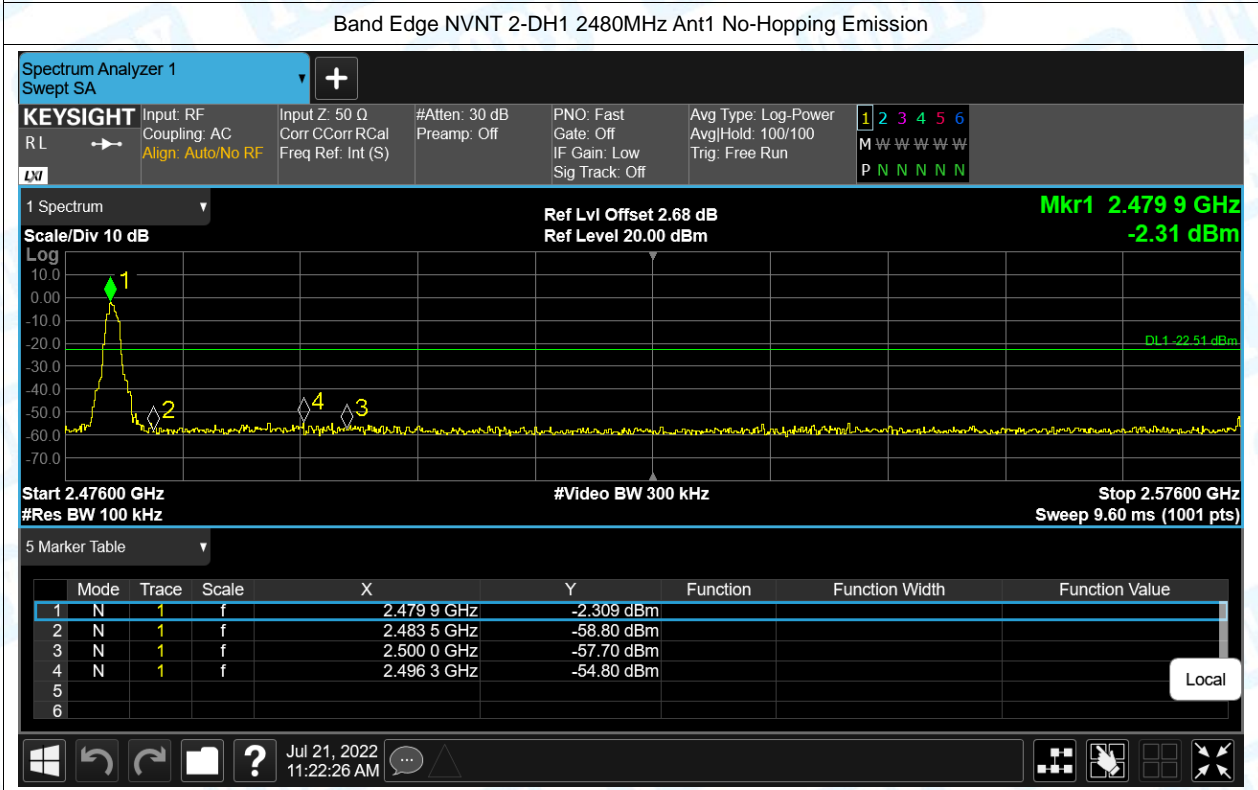
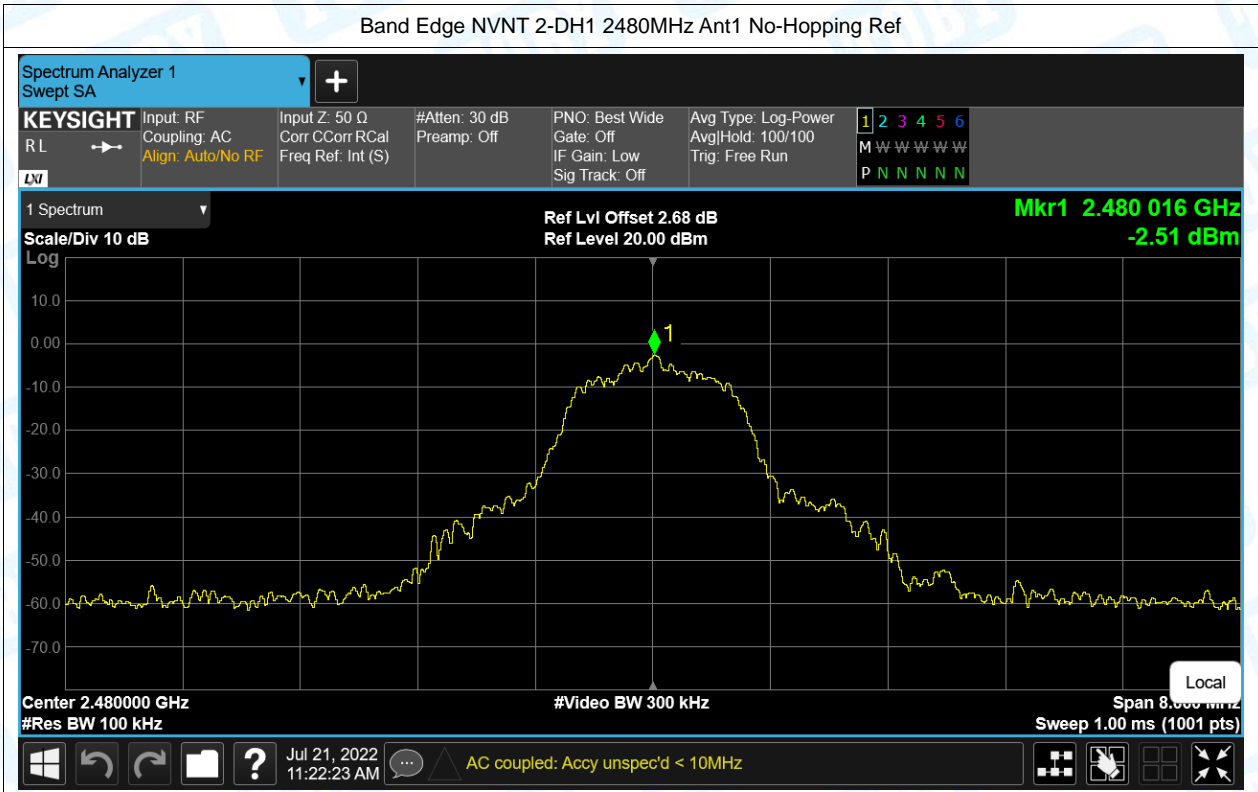


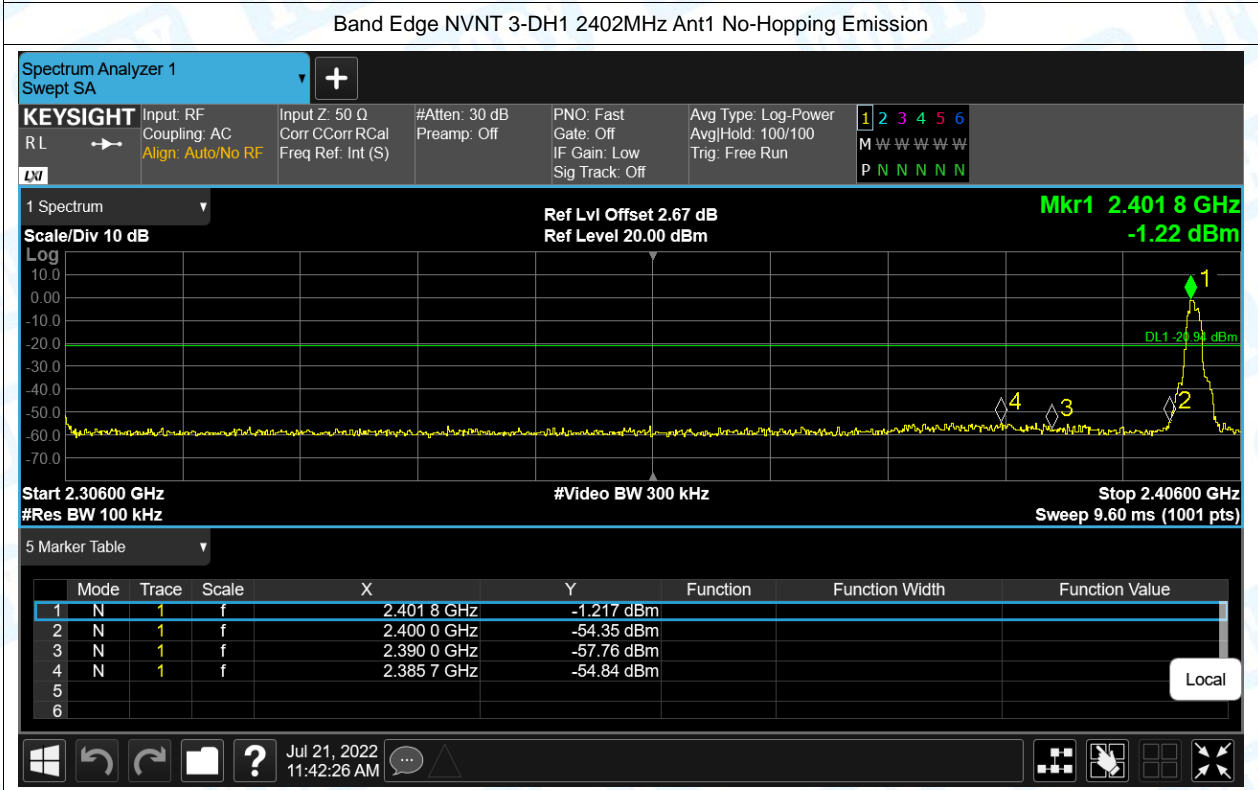
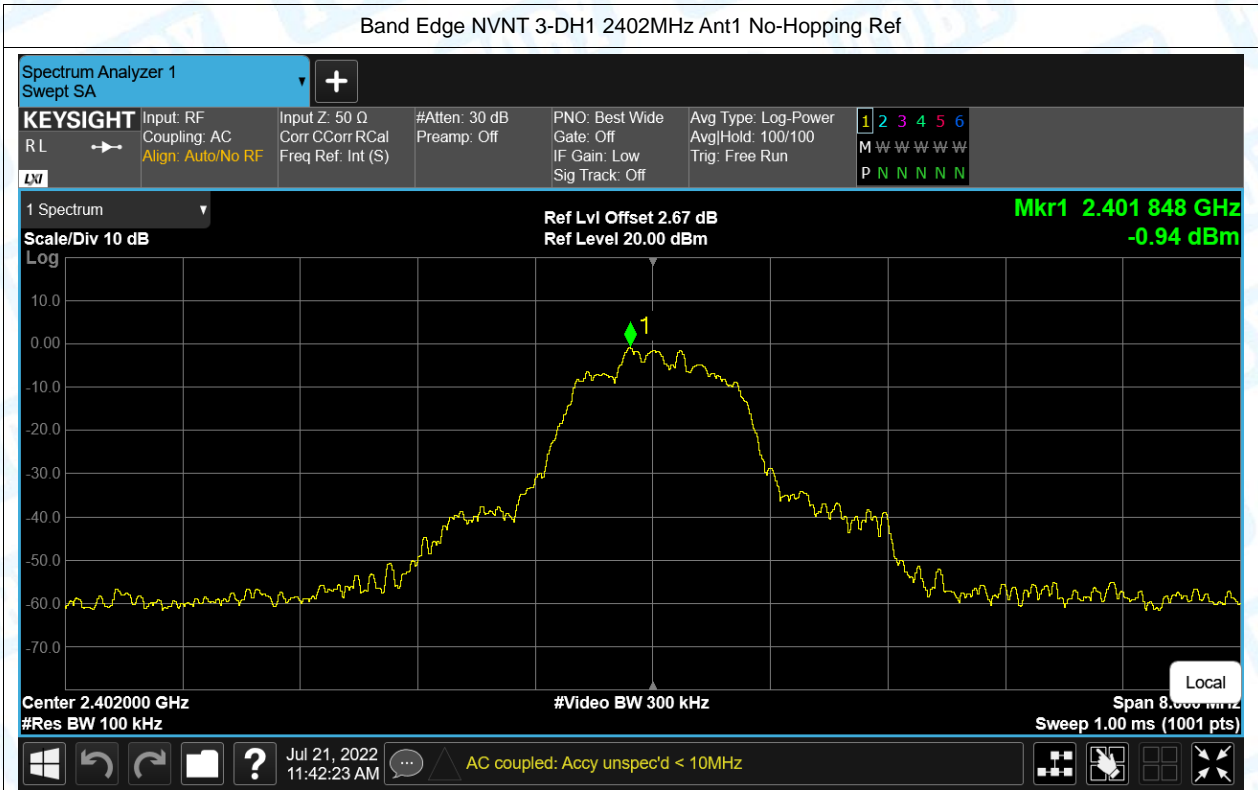
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



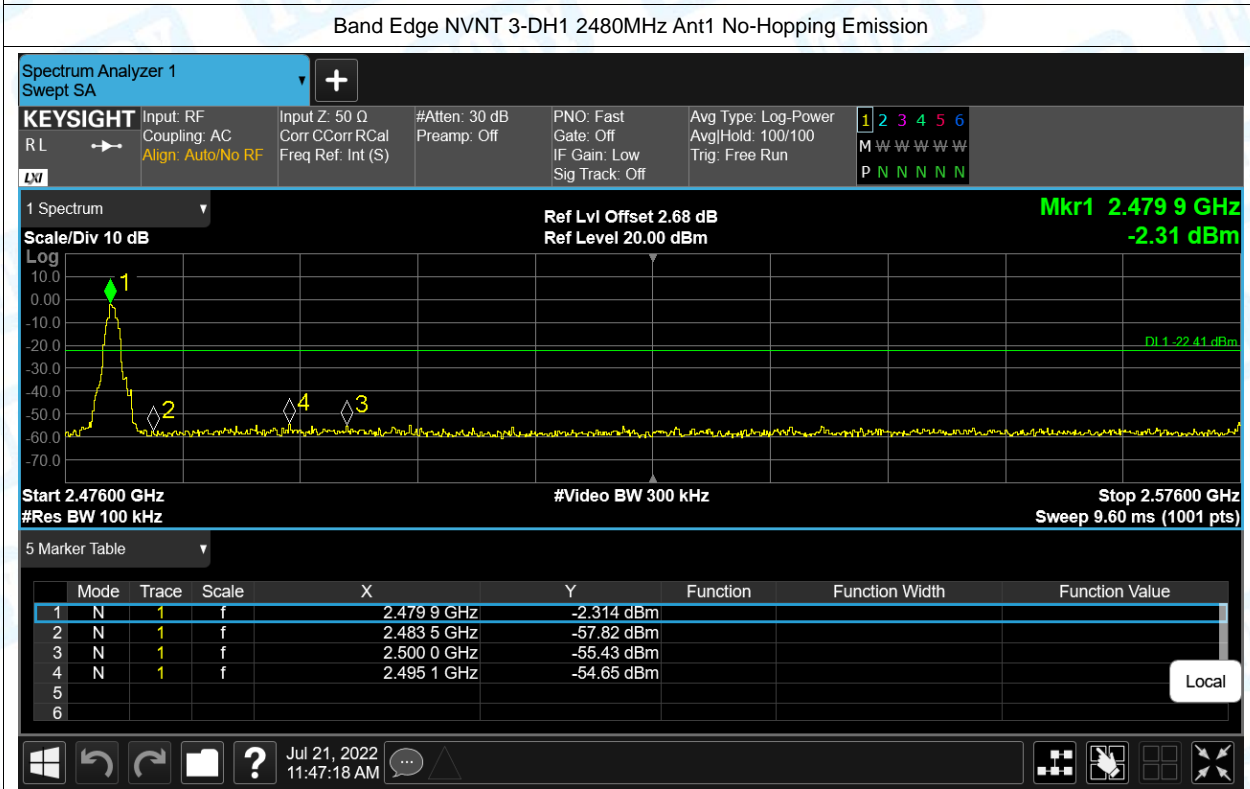
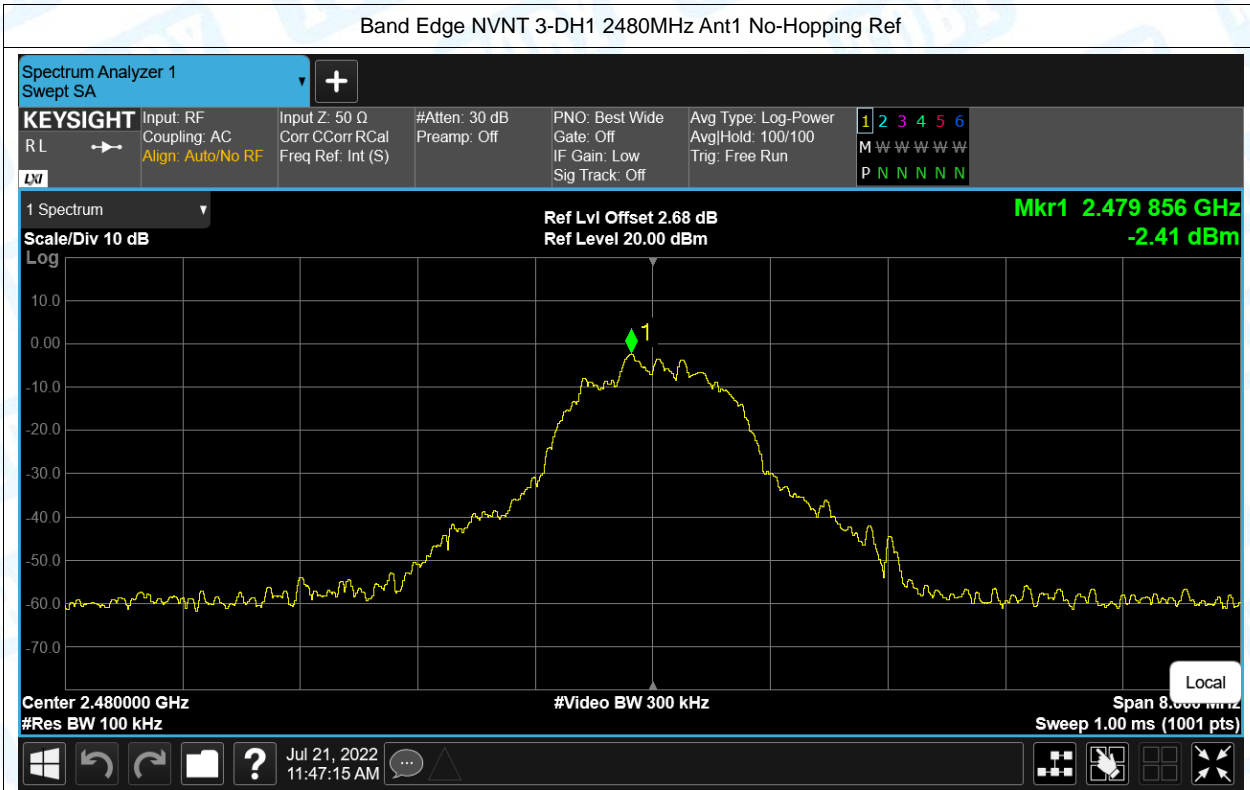










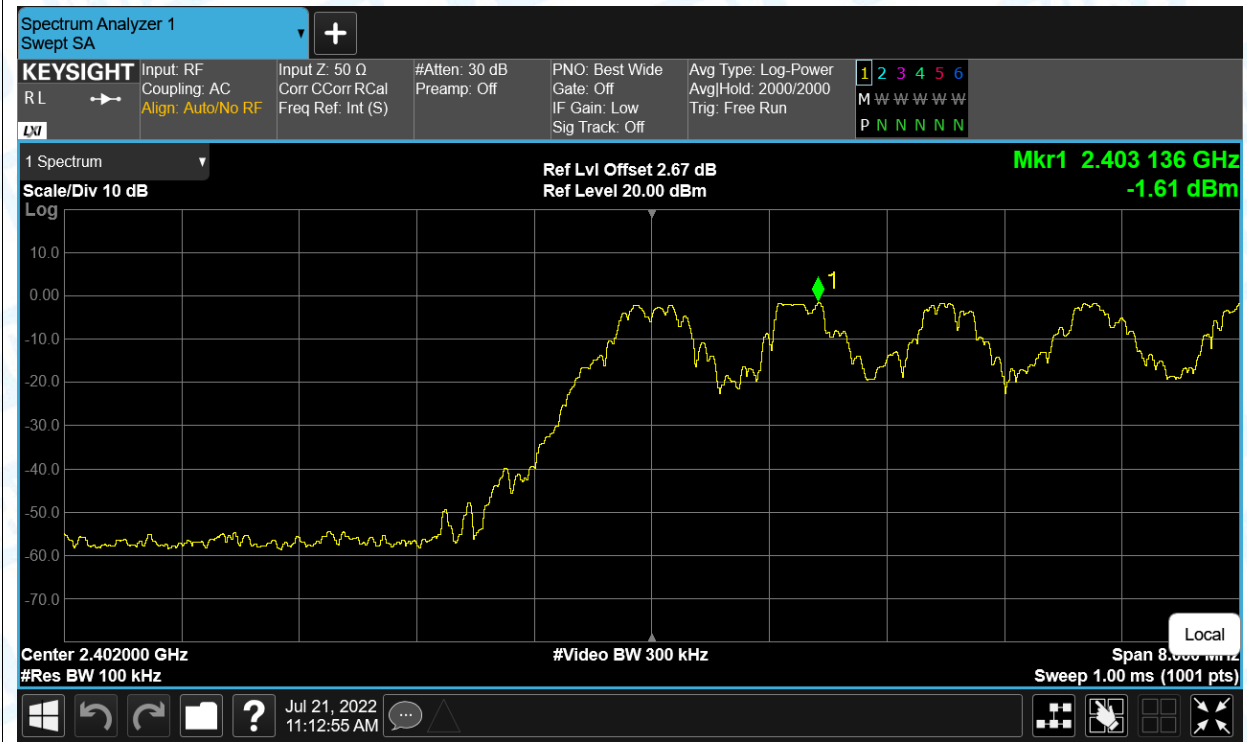


## 6. Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-48.45	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-49	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-50.52	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-49.82	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-49.14	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-48.42	-20	Pass

Test Graphs

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



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

