

# RF Test Data for 2.4G

## (Conducted Measurements)

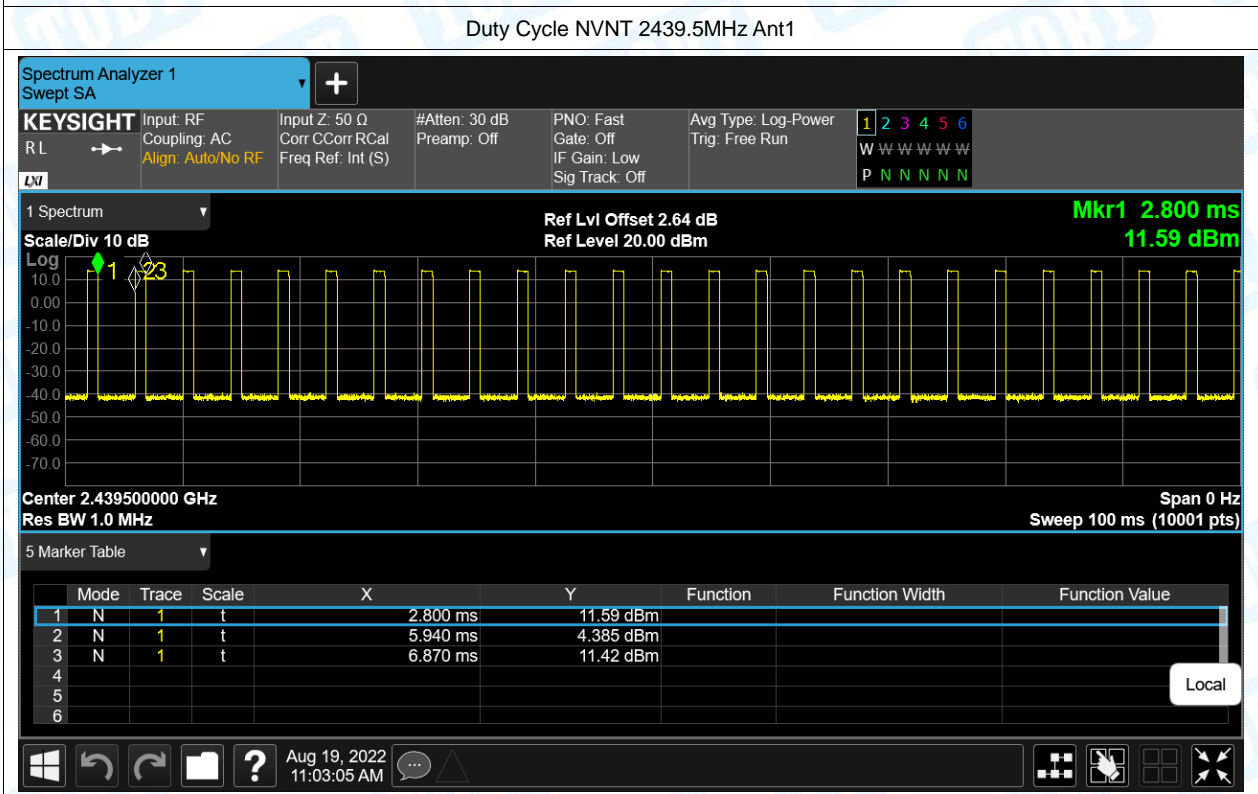
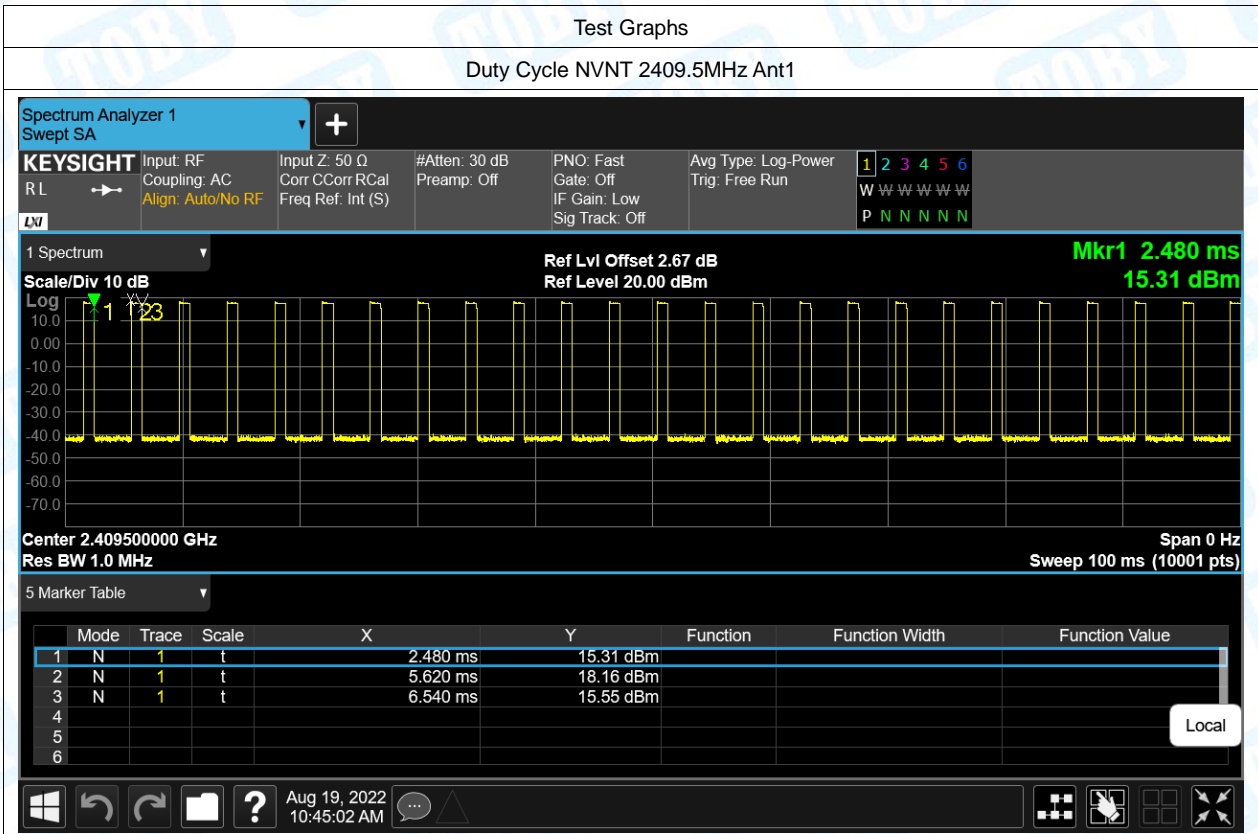
General Description of EUT	
Product Name:	2.4GHz Digital Wireless Video Baby Monitor
FCC Test Model:	HB6339
IC Test Model:	HB6339RX
Sample ID:	202203-0211-1_02
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 3.7V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202203-0211-2&TBR-C-202203-0211-3.	

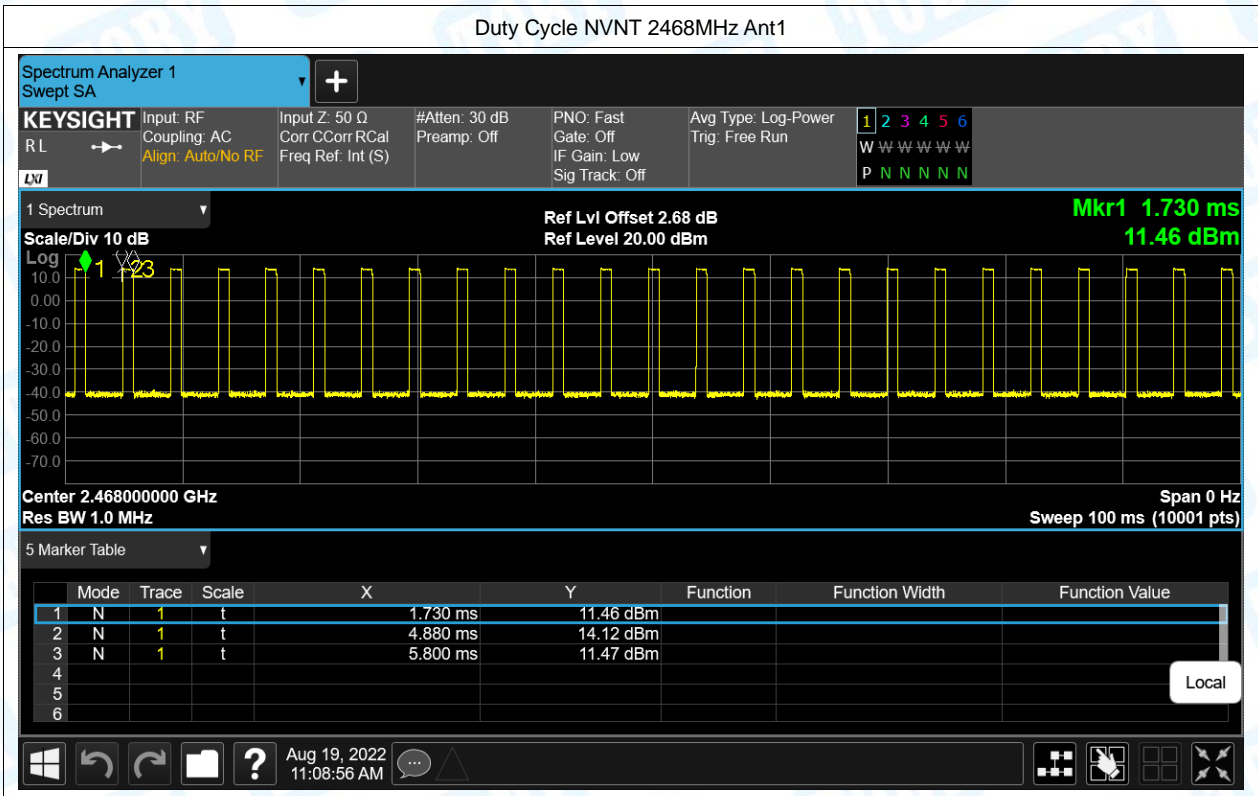
## Contents

1. Duty Cycle.....	3
2. Maximum Conducted Output Power .....	6
3. -20dB Bandwidth .....	9
4. Occupied Channel Bandwidth .....	12
5. Band Edge .....	15
6. Band Edge(Hopping).....	18
7. Conducted RF Spurious Emission.....	21
8. Restrict Band.....	25
9. Carrier Frequencies Separation.....	28
10. Number of Hopping Channel .....	30
11.Dwell Time.....	32

## 1. Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	GFSK	2409.5	Ant1	22.66	6.45	1.09
NVNT	GFSK	2439.5	Ant1	22.85	6.41	1.08
NVNT	GFSK	2468	Ant1	22.6	6.46	1.09



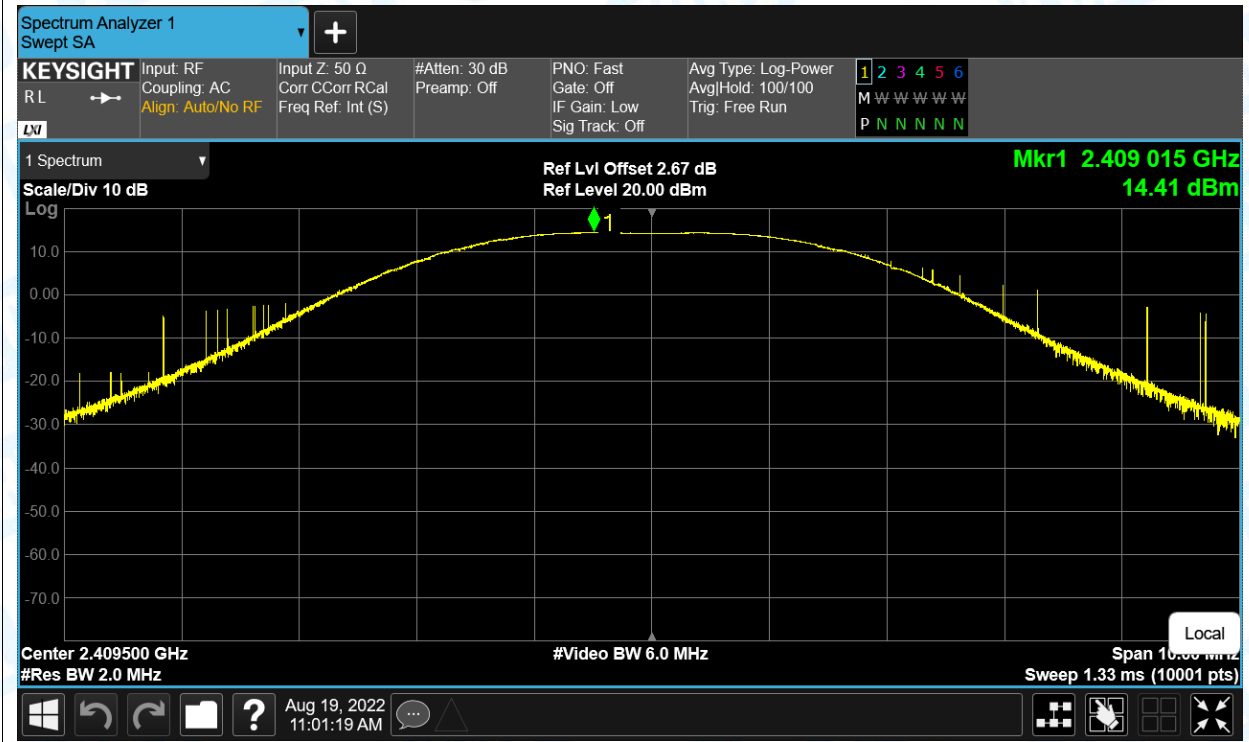


## 2. Maximum Conducted Output Power

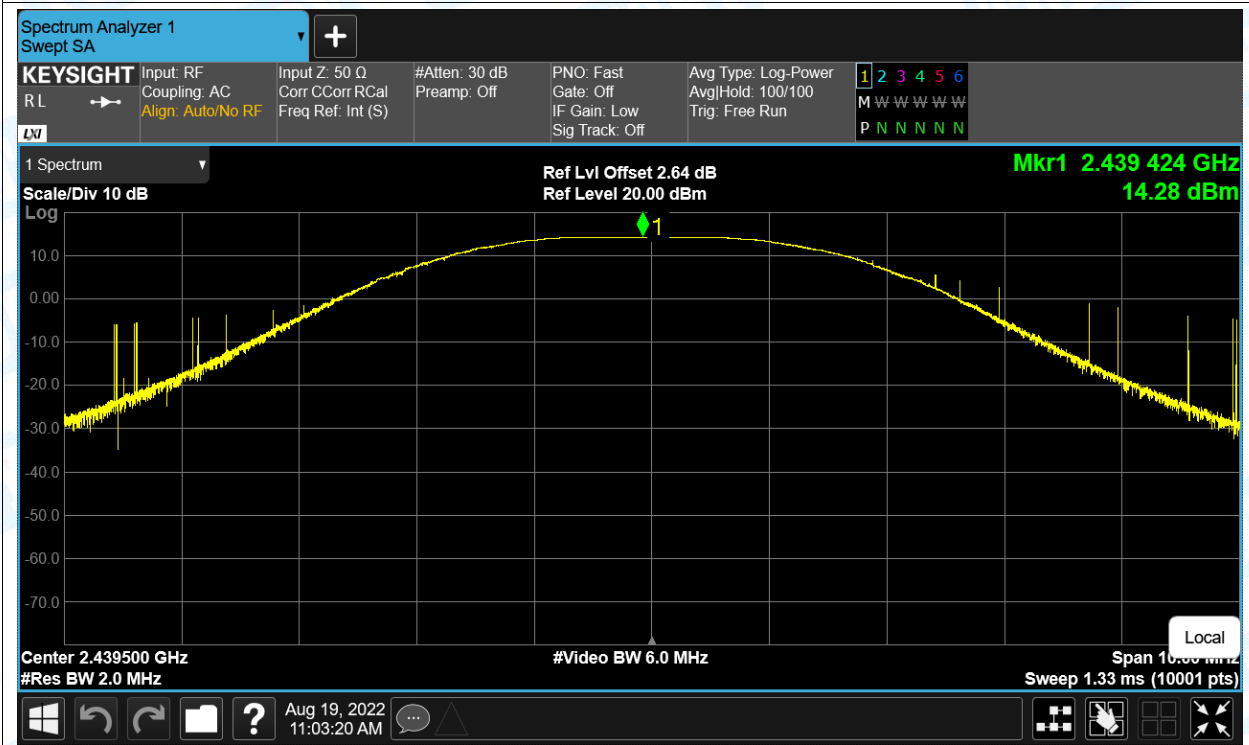
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	GFSK	2409.5	Ant1	14.411	21	Pass
NVNT	GFSK	2439.5	Ant1	14.284	21	Pass
NVNT	GFSK	2468	Ant1	14.154	21	Pass

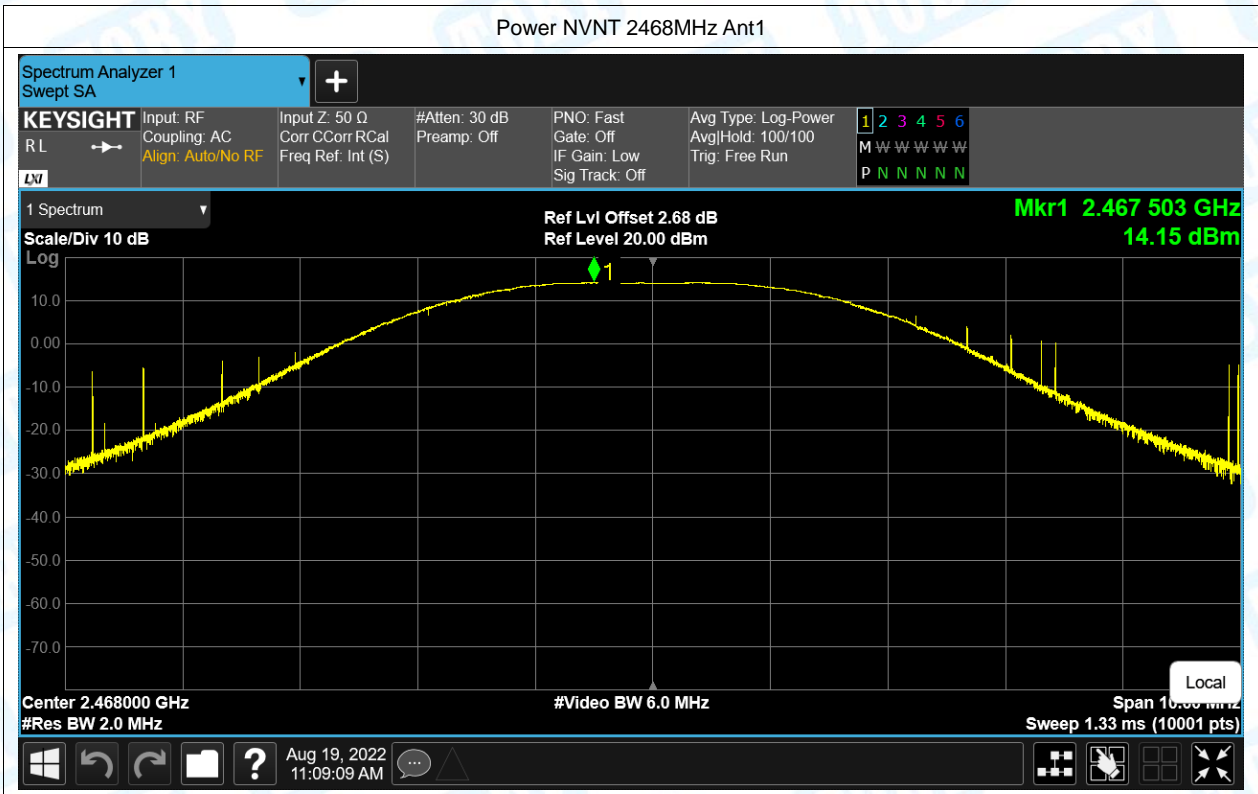
Test Graphs

Power NVNT 2409.5MHz Ant1



Power NVNT 2439.5MHz Ant1

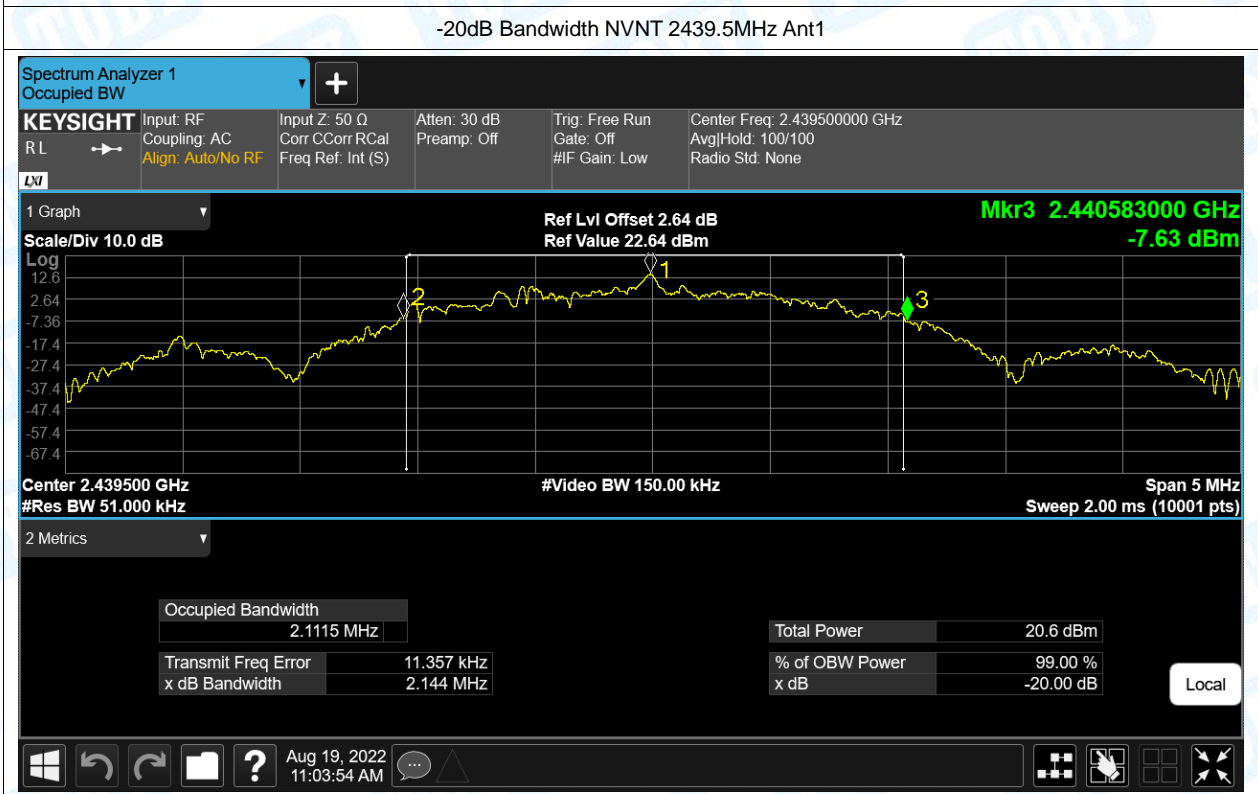
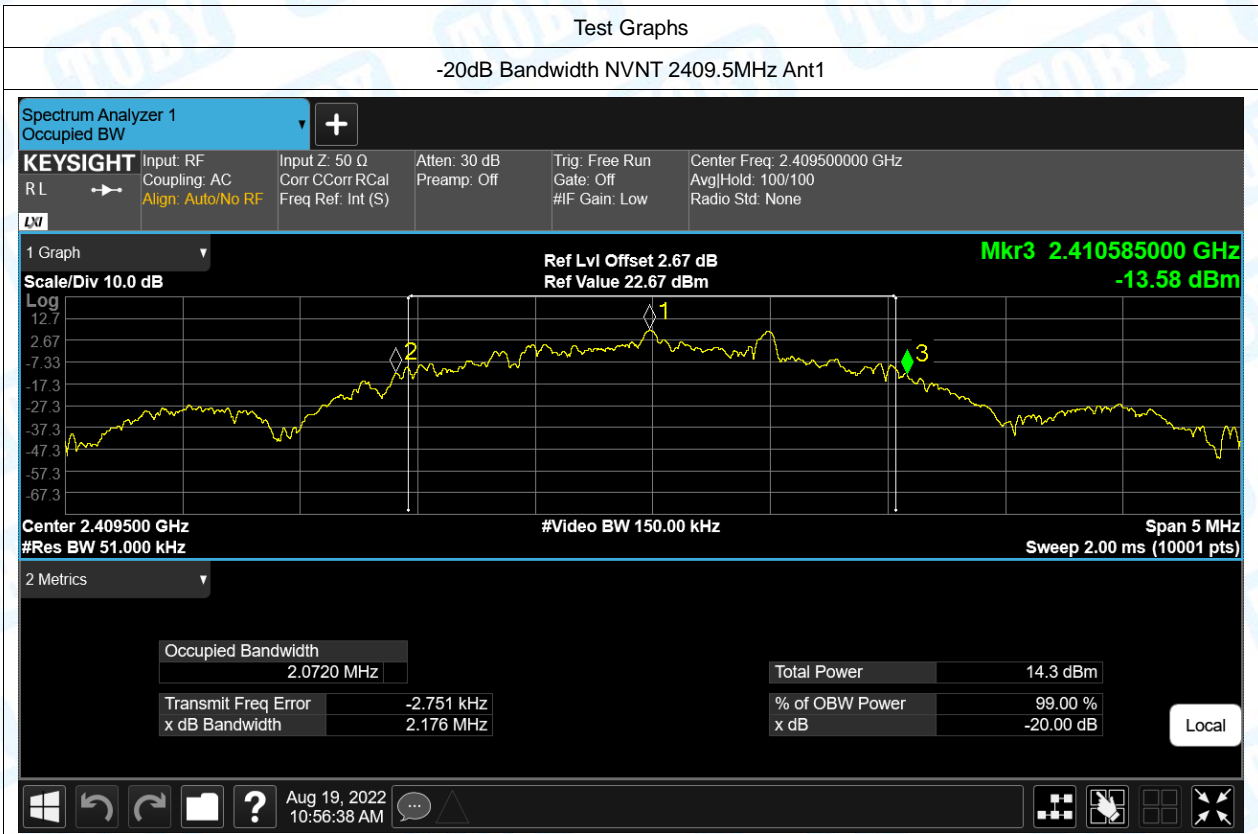


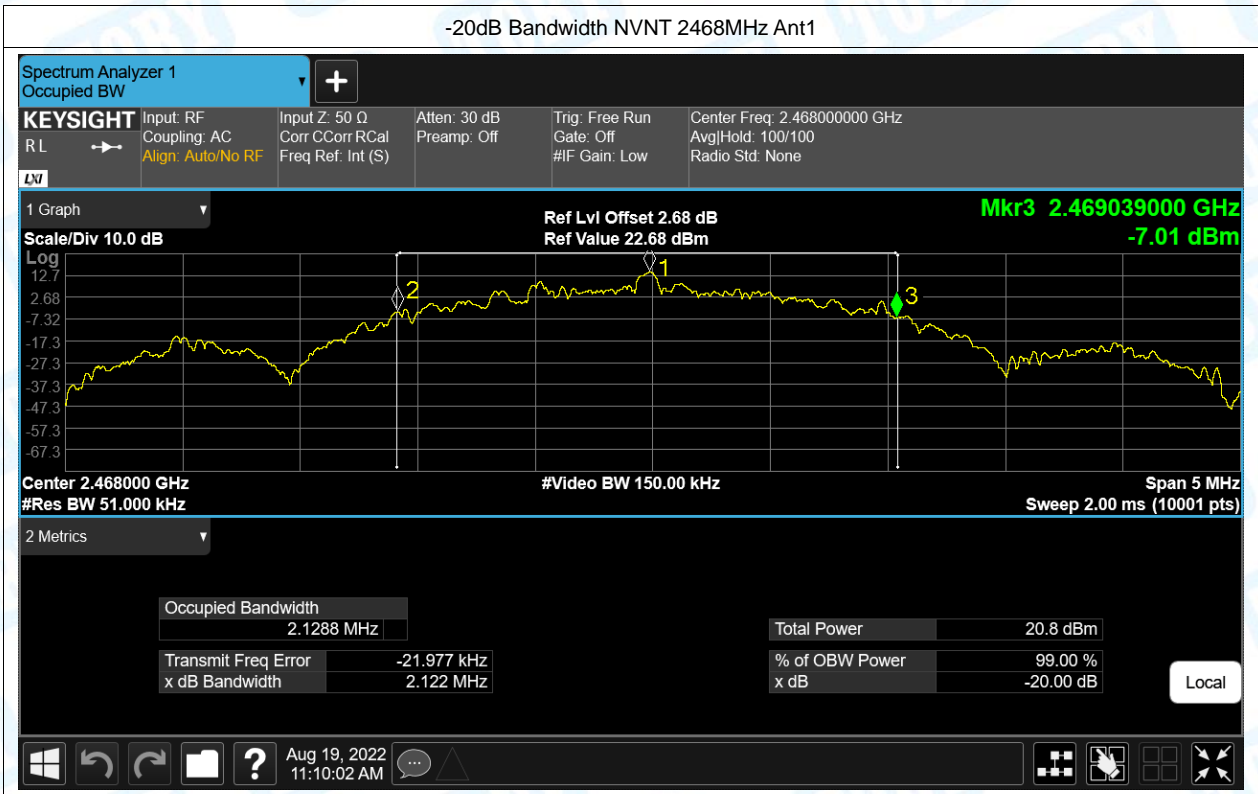




### 3. -20dB Bandwidth

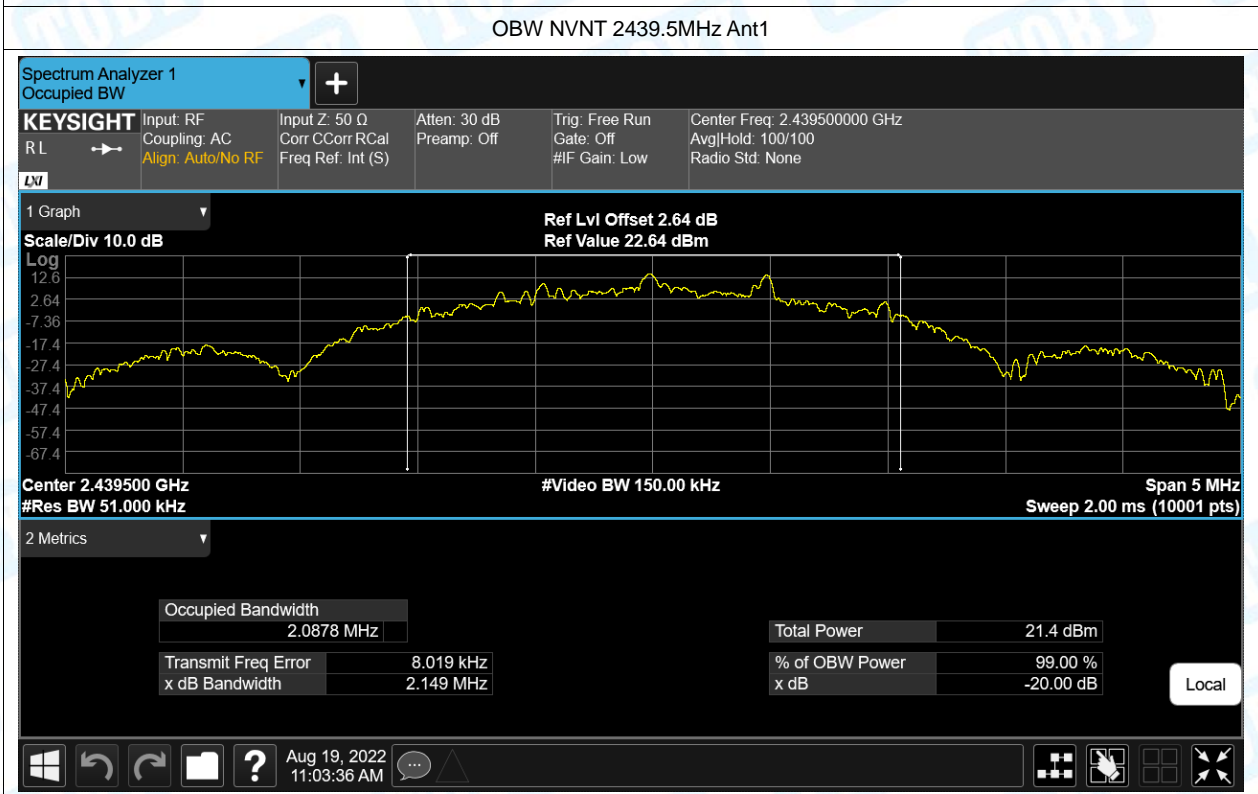
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	GFSK	2409.5	Ant1	2.18	0	Pass
NVNT	GFSK	2439.5	Ant1	2.14	0	Pass
NVNT	GFSK	2468	Ant1	2.12	0	Pass

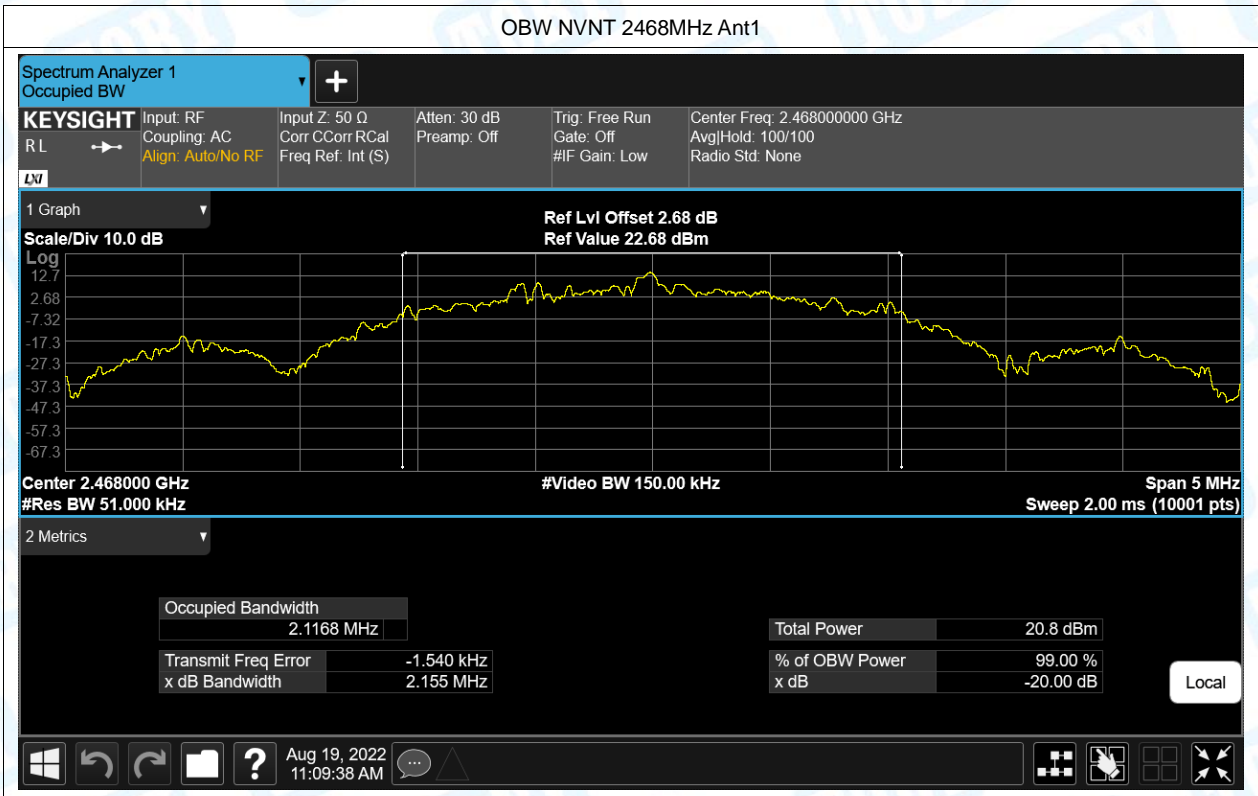




## 4. Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	GFSK	2409.5	Ant1	2.121
NVNT	GFSK	2439.5	Ant1	2.088
NVNT	GFSK	2468	Ant1	2.117



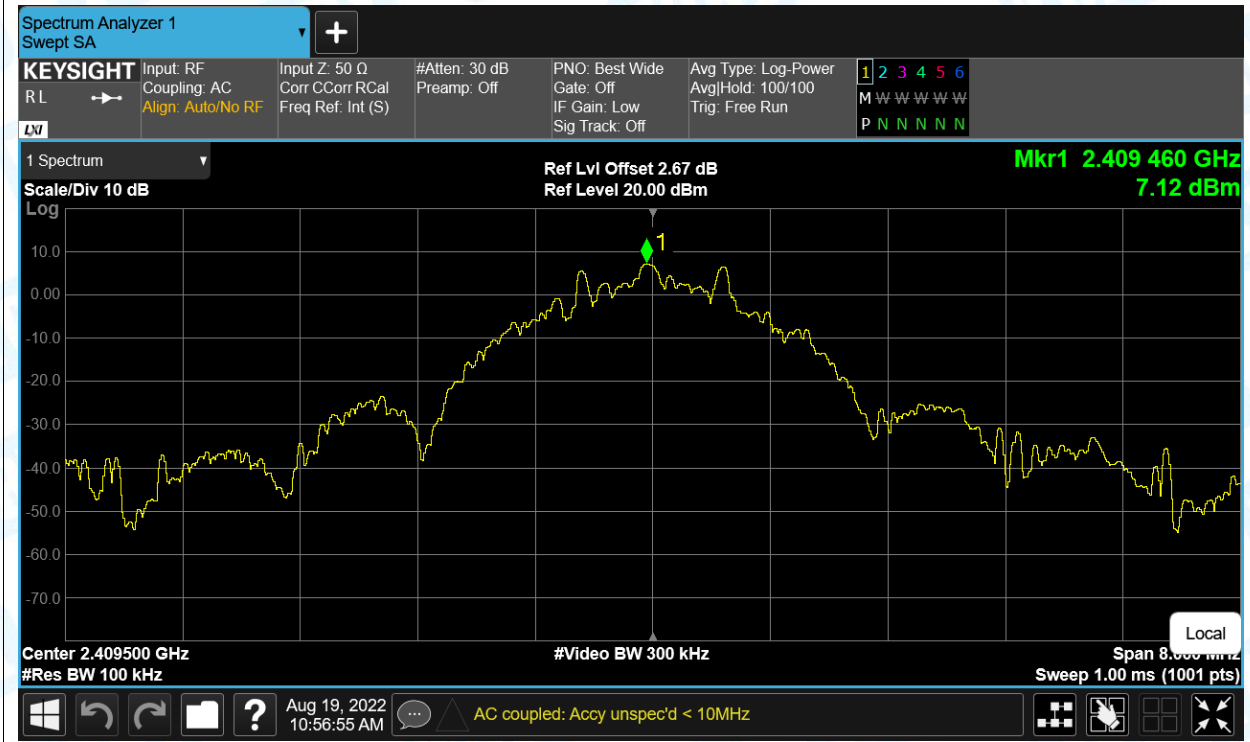


## 5. Band Edge

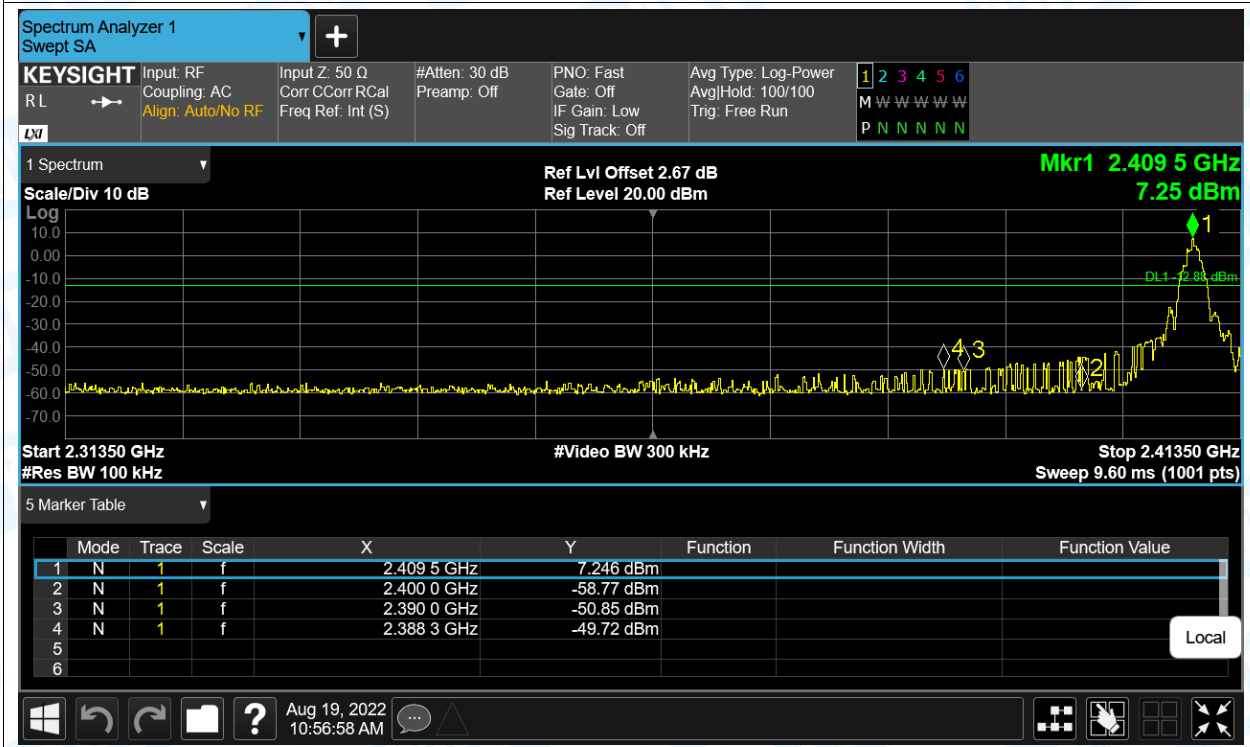
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	GFSK	2409.5	Ant1	No-Hopping	-56.84	-20	Pass
NVNT	GFSK	2468	Ant1	No-Hopping	-55.67	-20	Pass

### Test Graphs

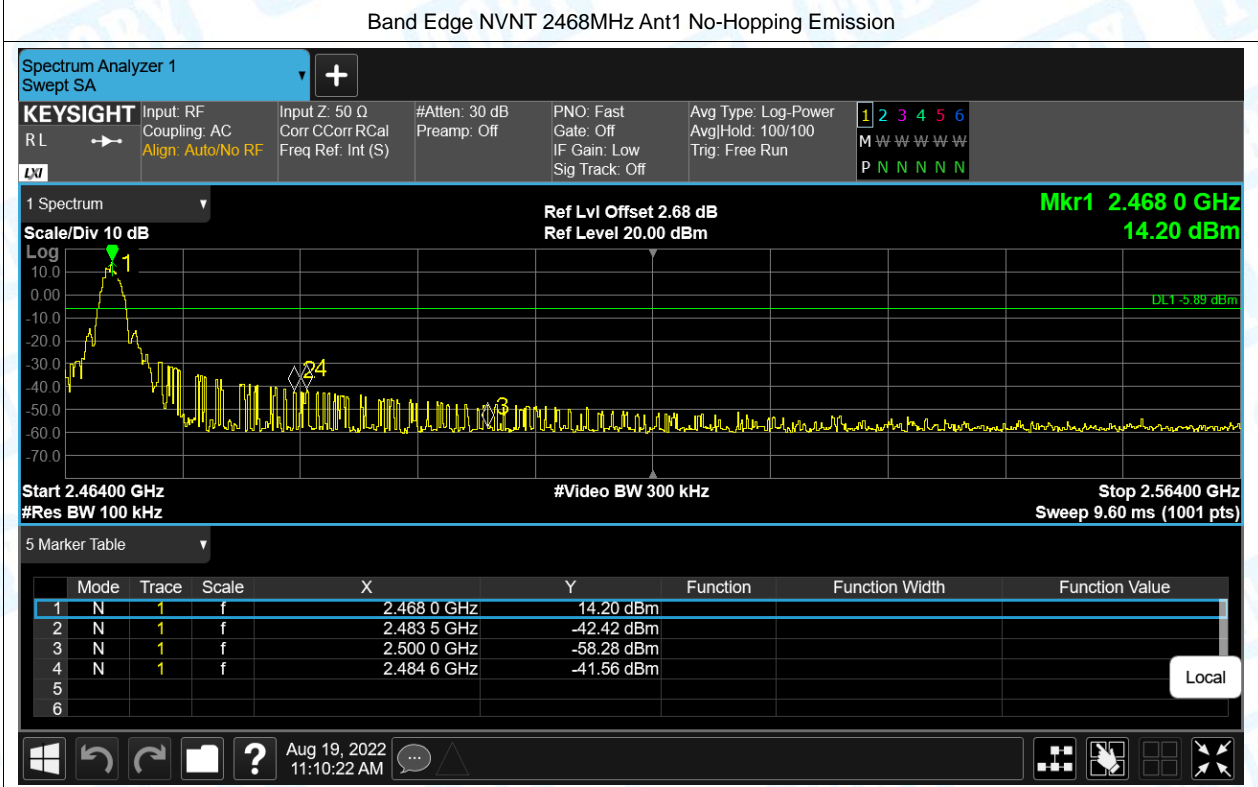
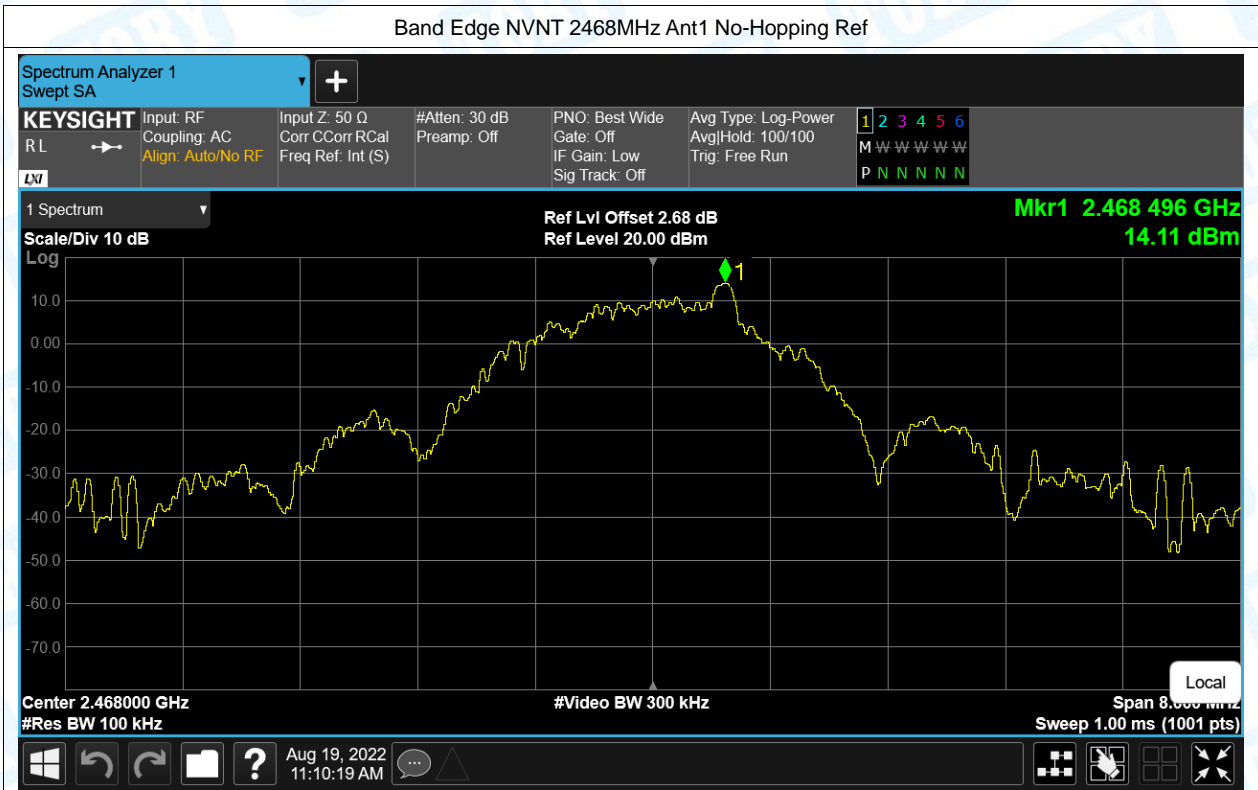
#### Band Edge NVNT 2409.5MHz Ant1 No-Hopping Ref



#### Band Edge NVNT 2409.5MHz Ant1 No-Hopping Emission





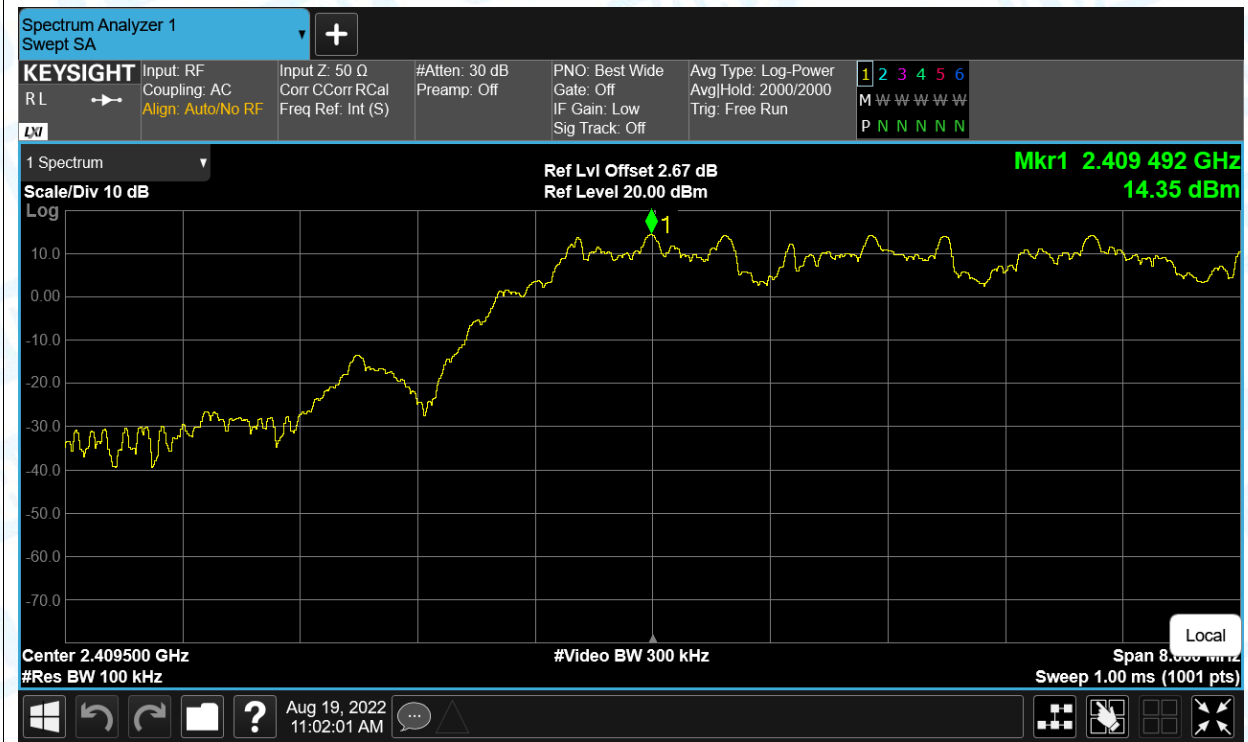


## 6. Band Edge(Hopping)

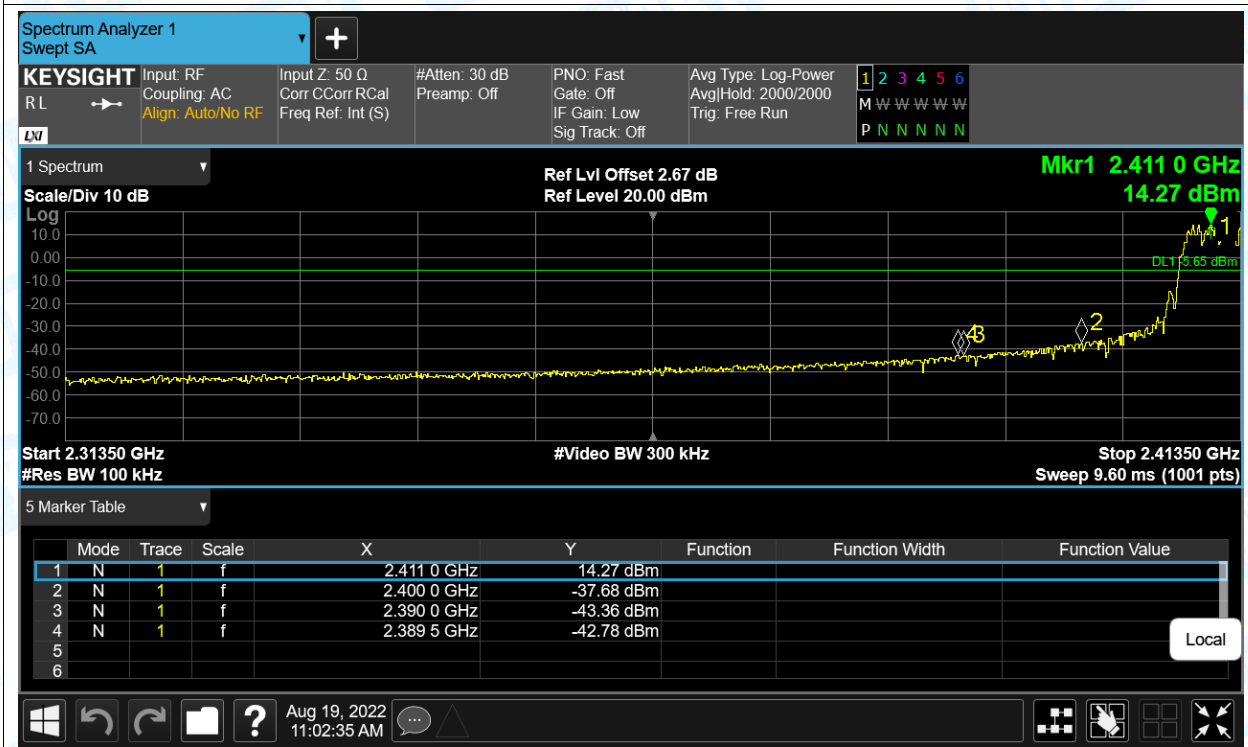
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	GFSK	2409.5	Ant1	Hopping	-57.13	-20	Pass
NVNT	GFSK	2468	Ant1	Hopping	-55.37	-20	Pass

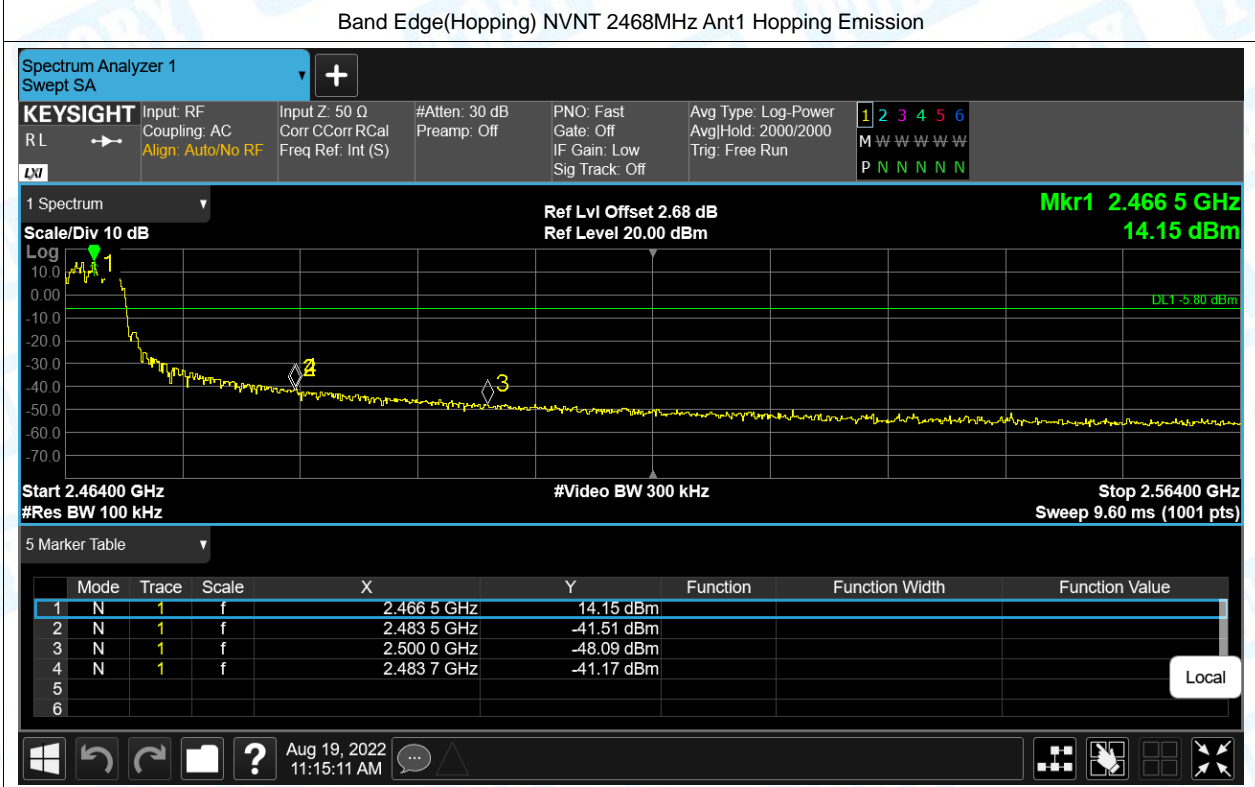
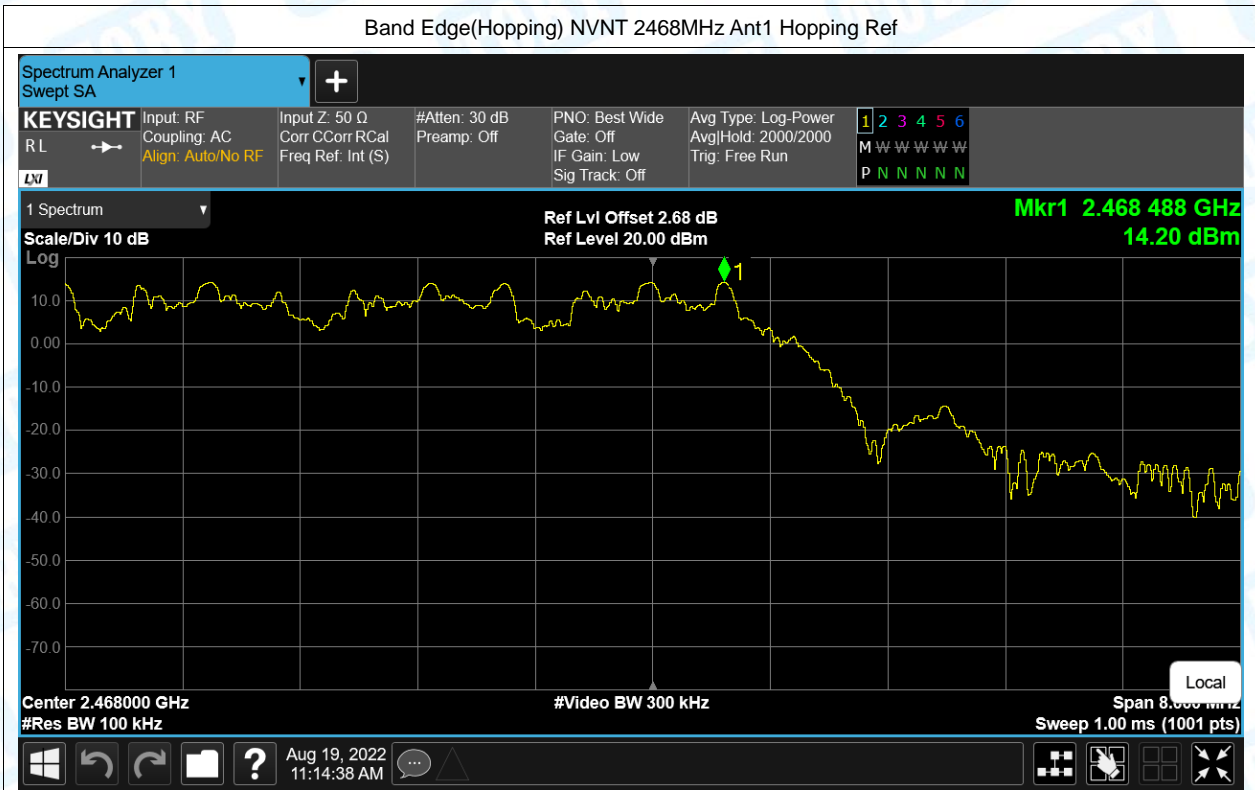
Test Graphs

Band Edge(Hopping) NVNT 2409.5MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2409.5MHz Ant1 Hopping Emission



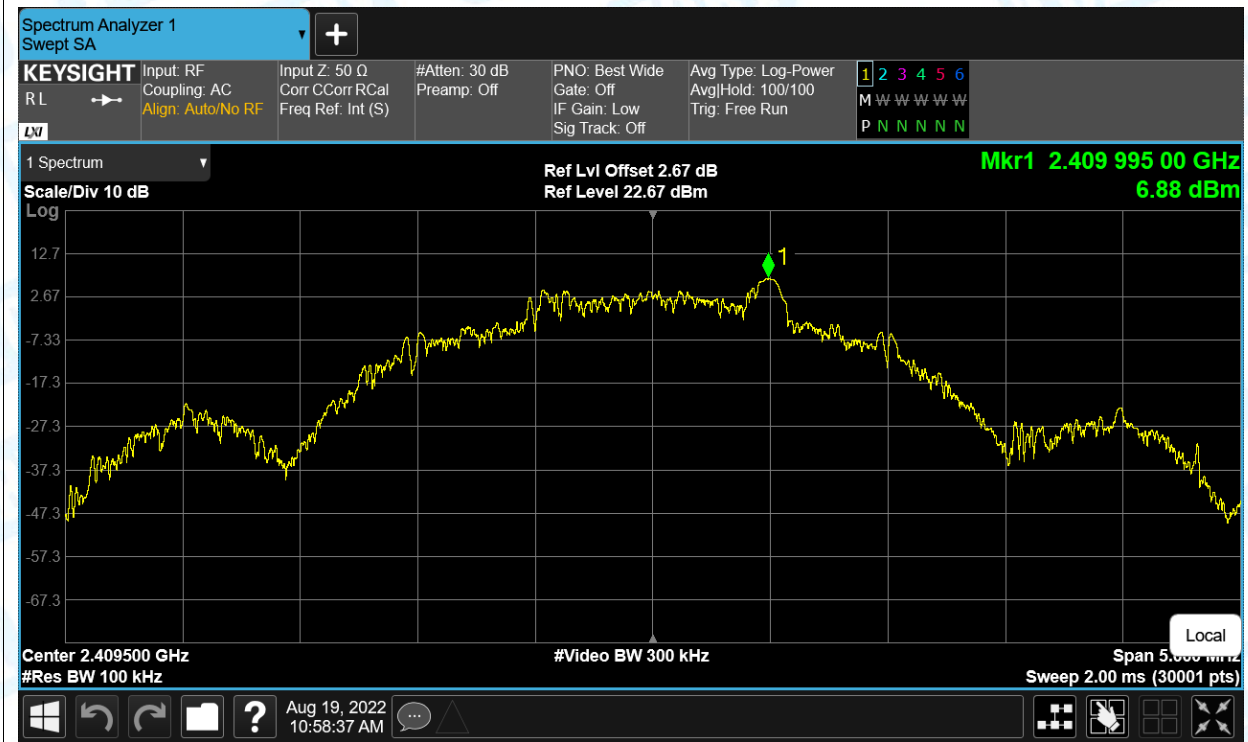


## 7. Conducted RF Spurious Emission

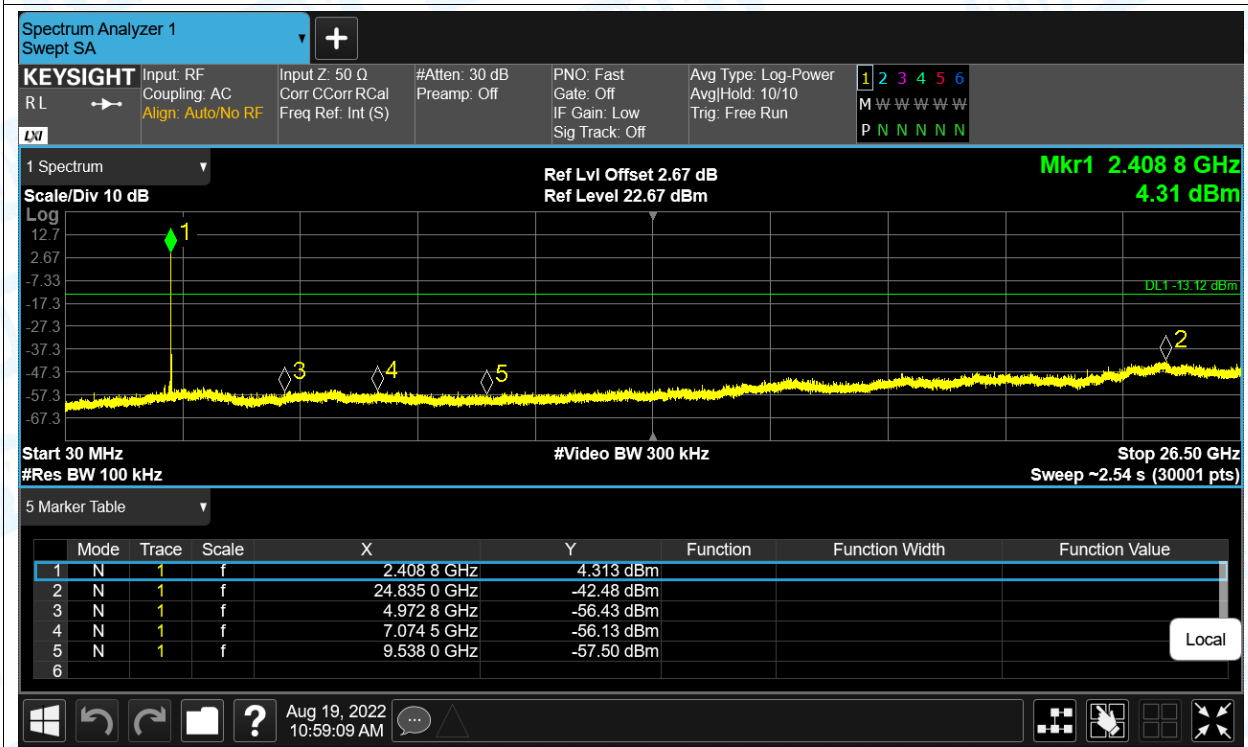
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	GFSK	2409.5	Ant1	-49.36	-20	Pass
NVNT	GFSK	2439.5	Ant1	-56.99	-20	Pass
NVNT	GFSK	2468	Ant1	-55.84	-20	Pass

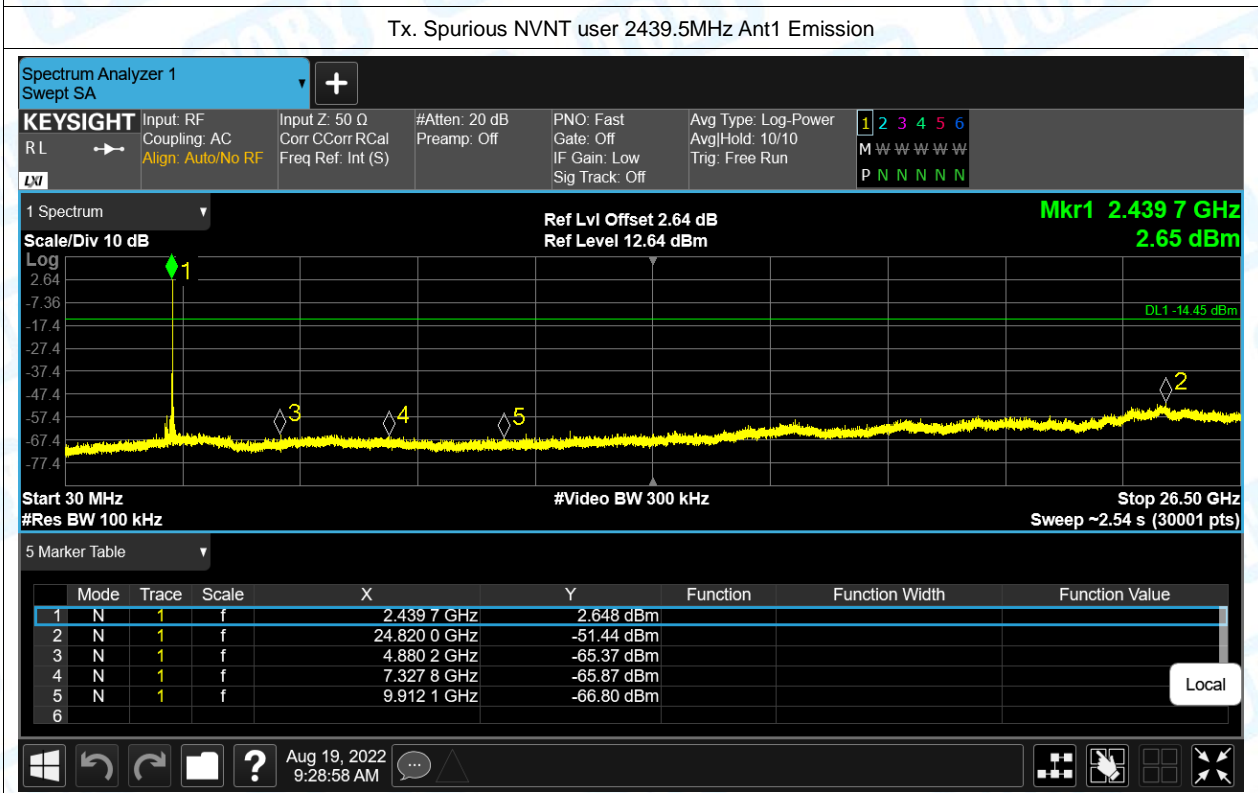
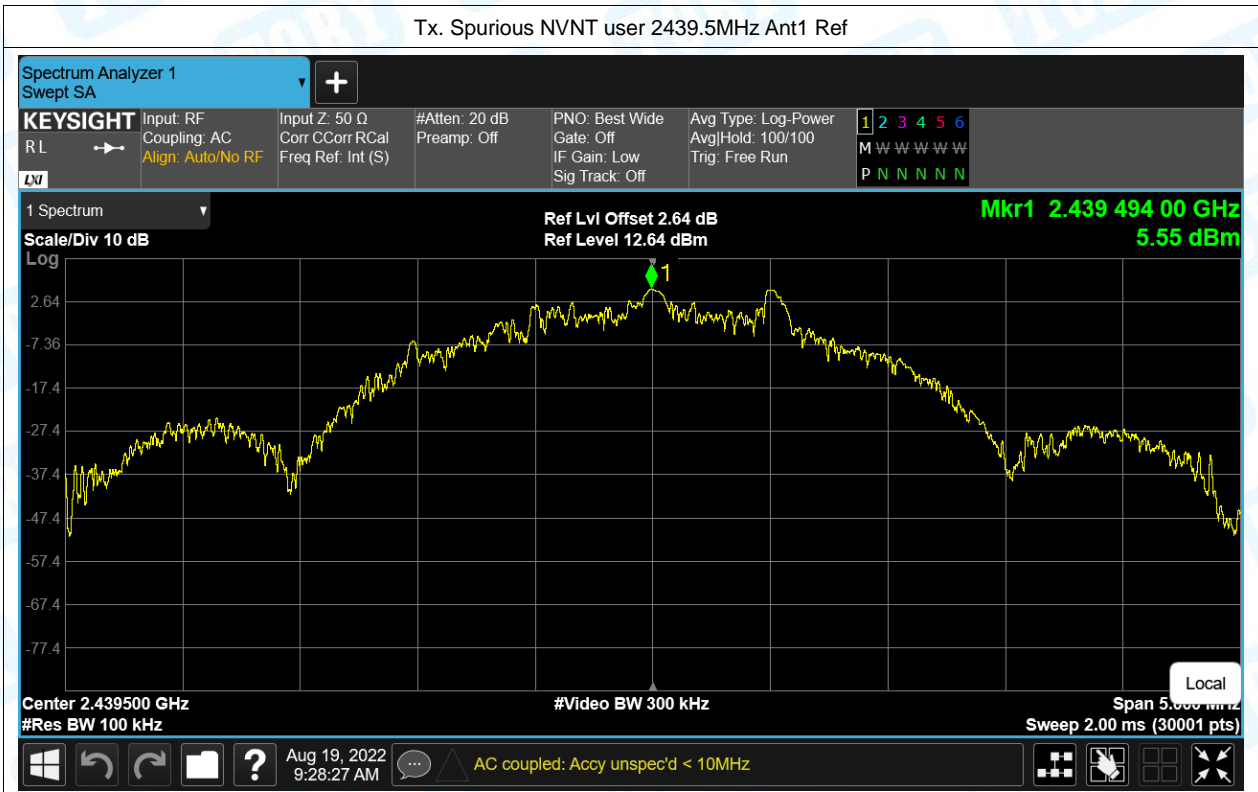
### Test Graphs

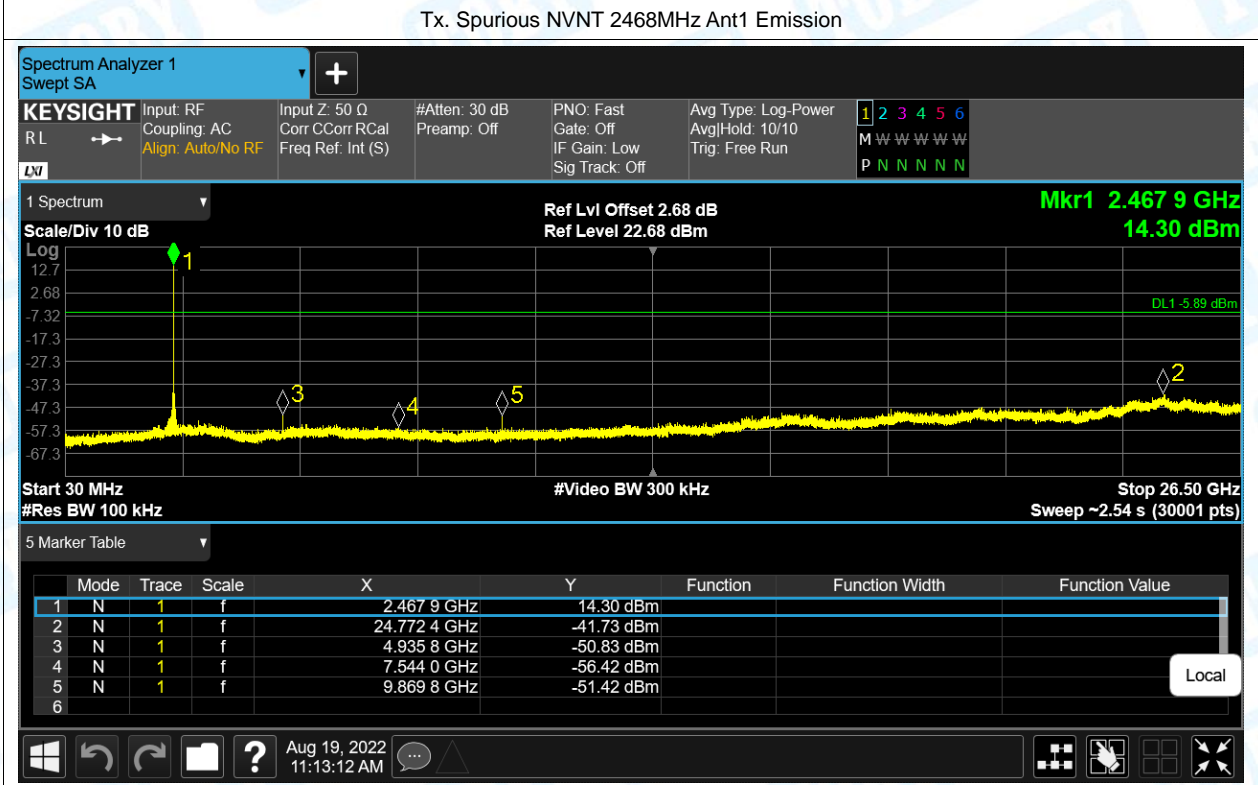
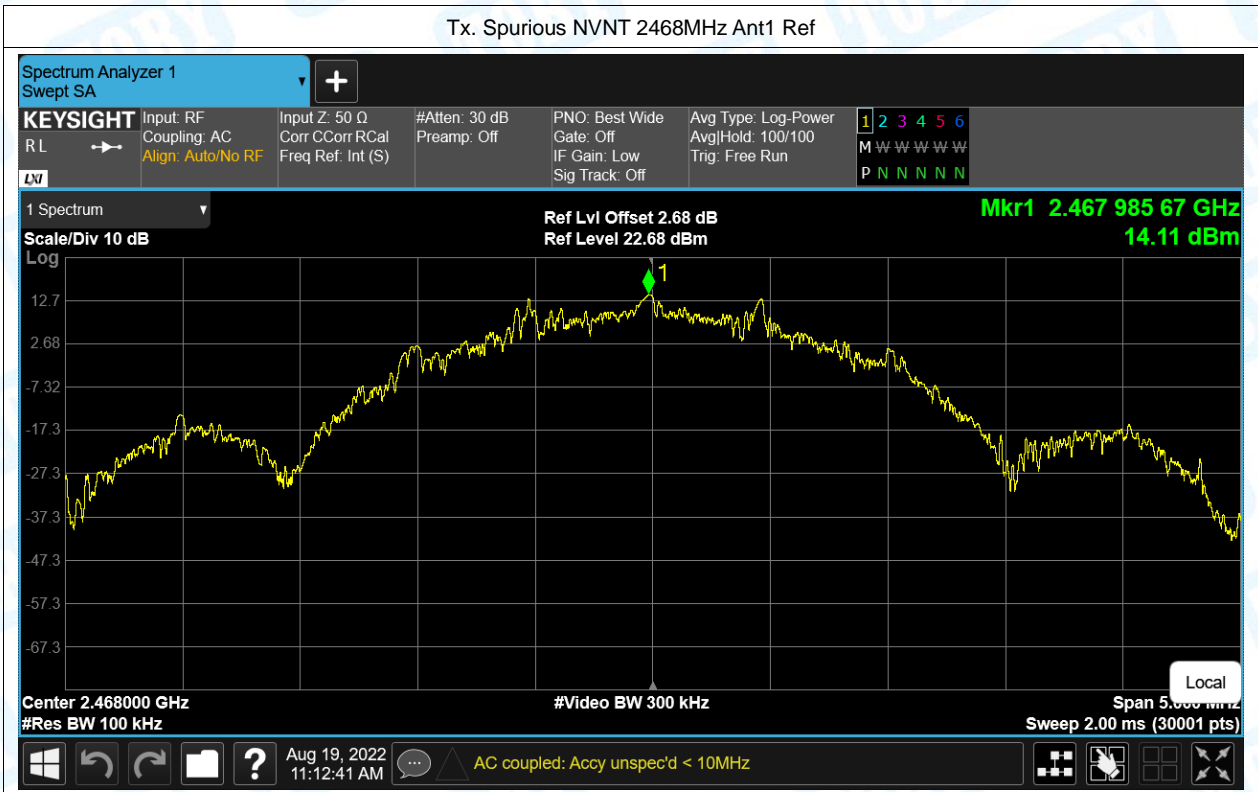
#### Tx. Spurious NVNT 2409.5MHz Ant1 Ref



#### Tx. Spurious NVNT 2409.5MHz Ant1 Emission



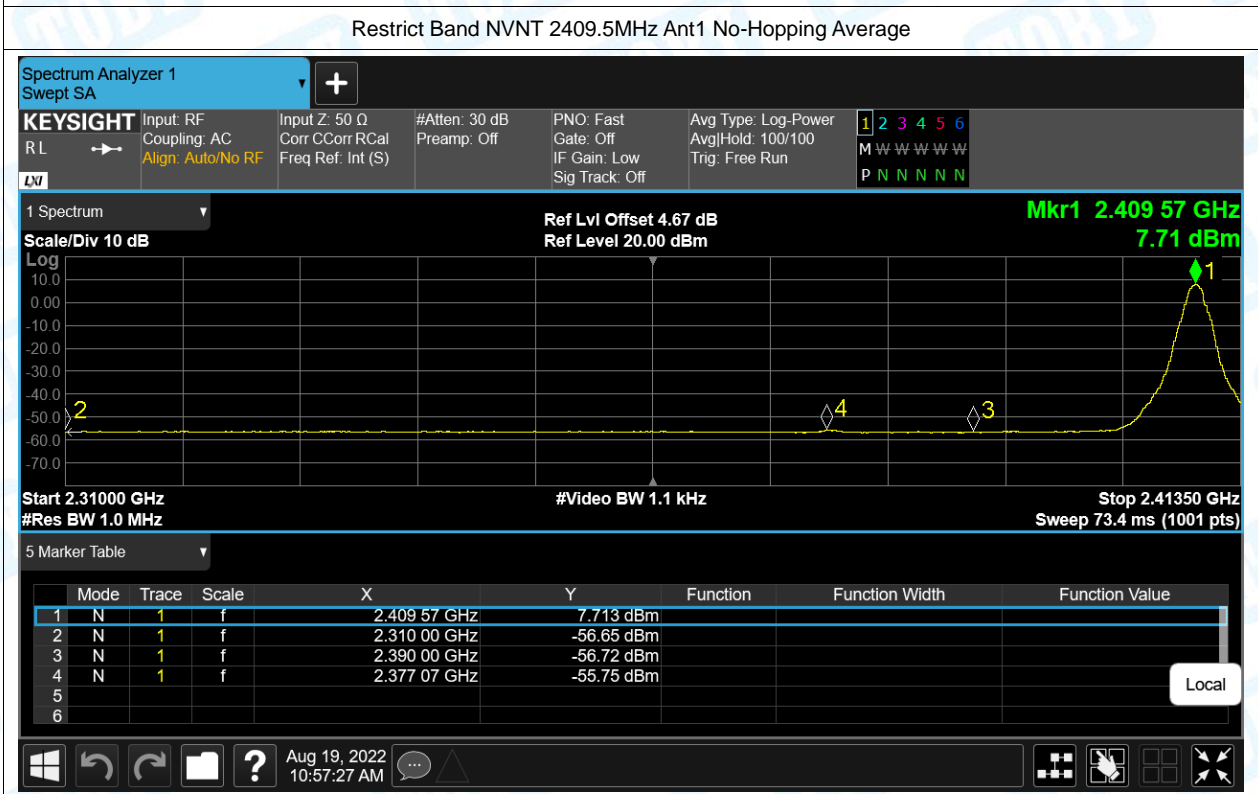
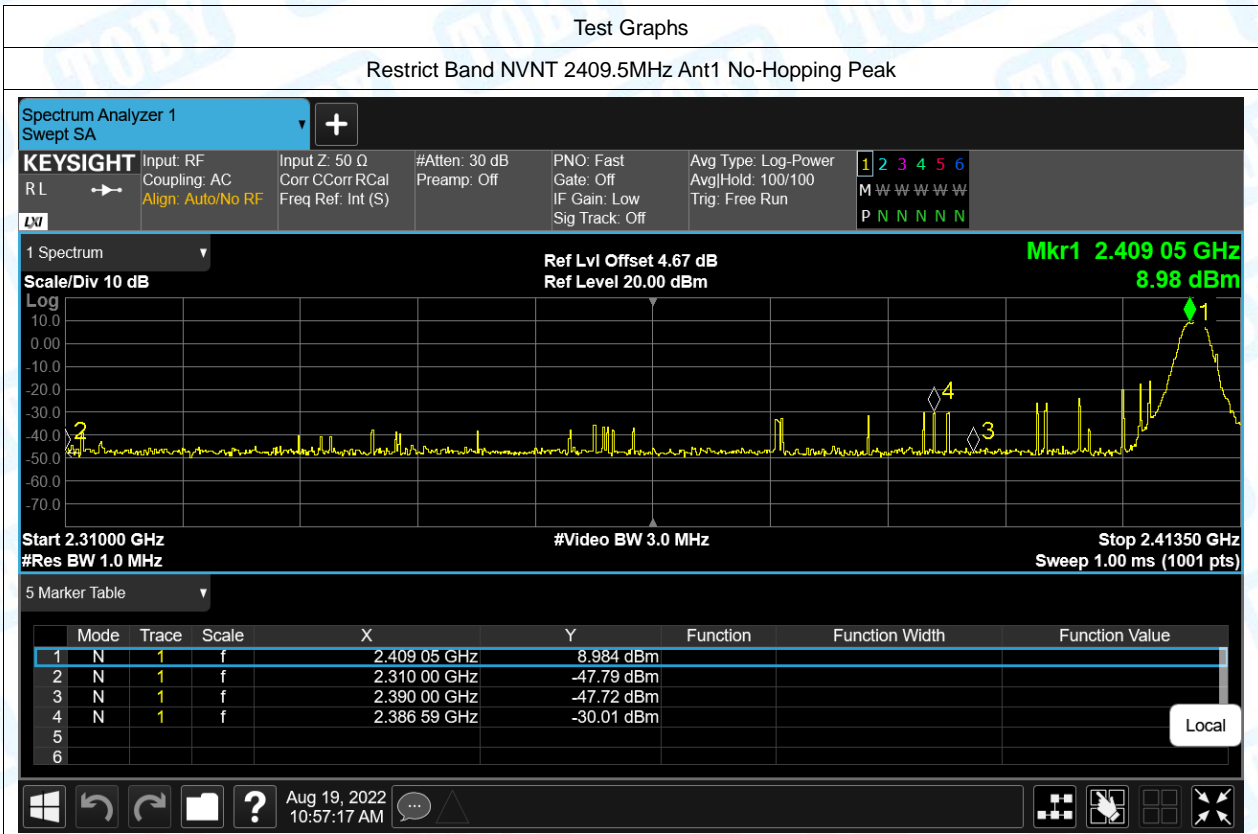


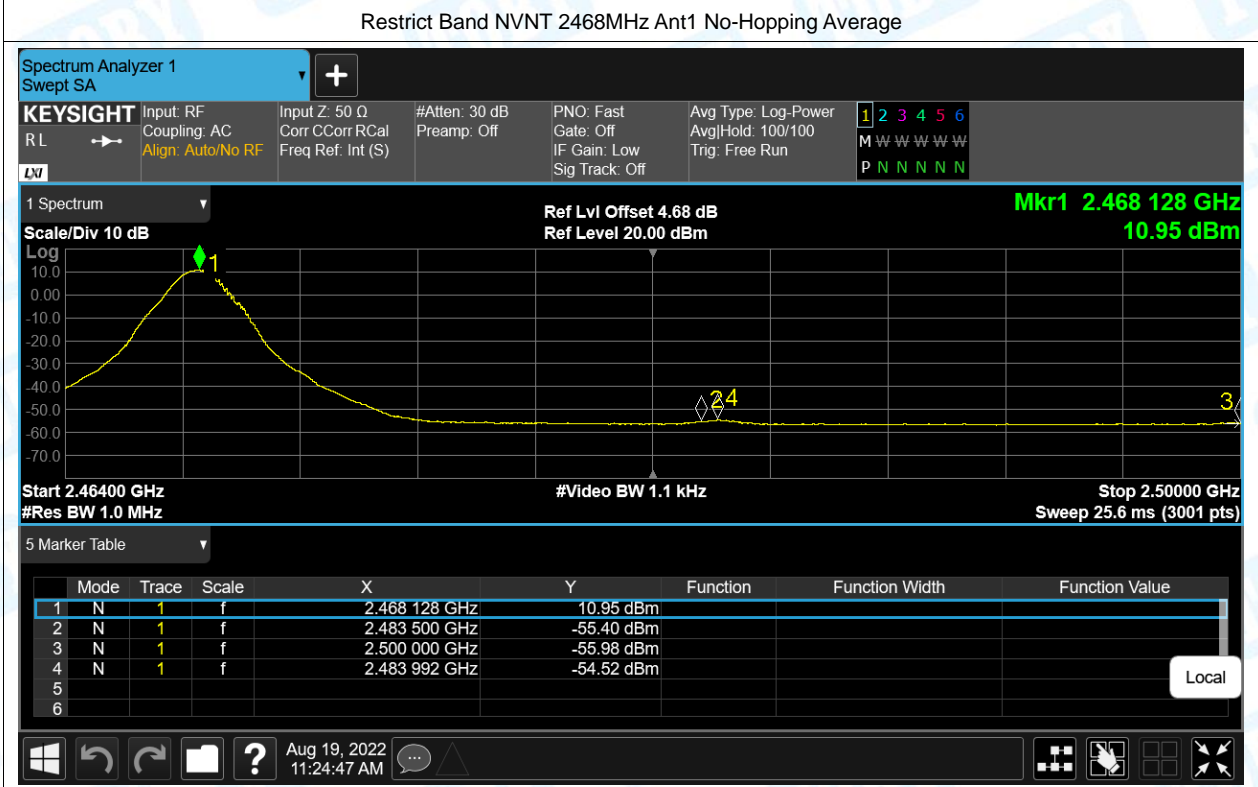
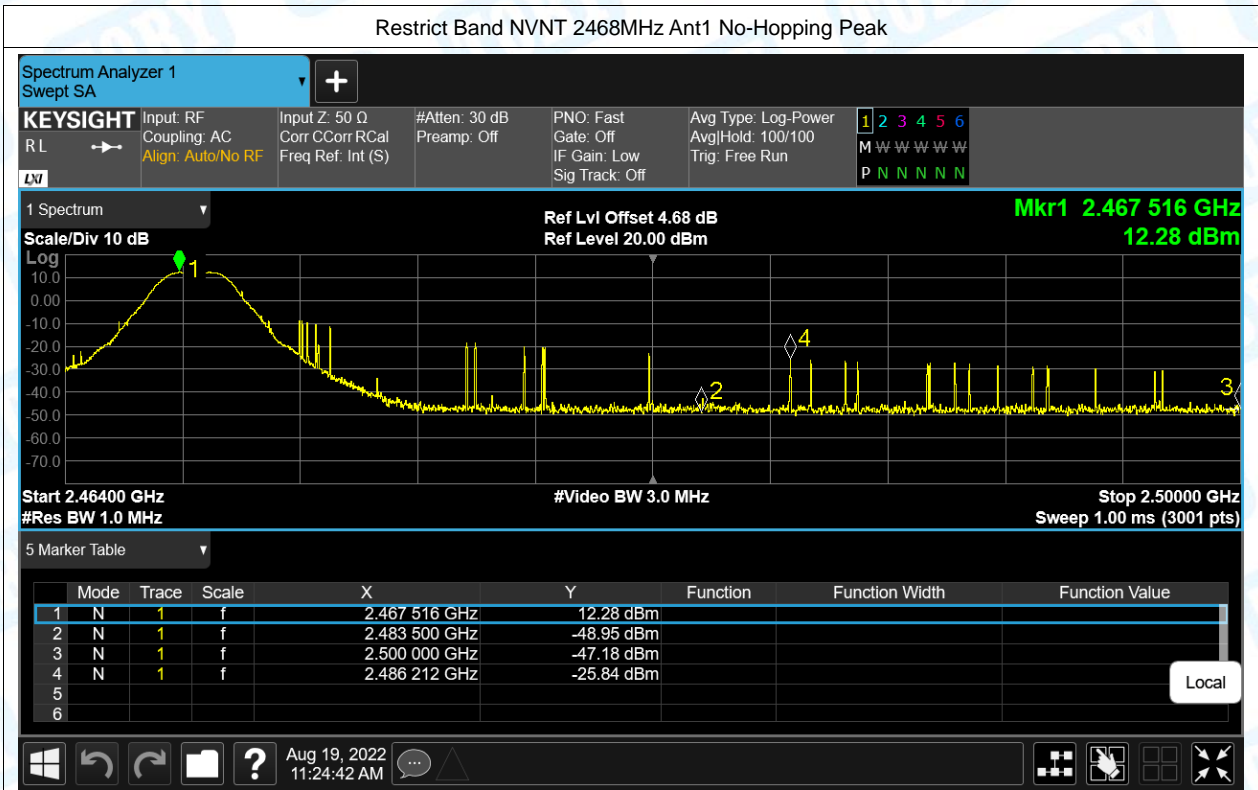




### 8. Restrict Band

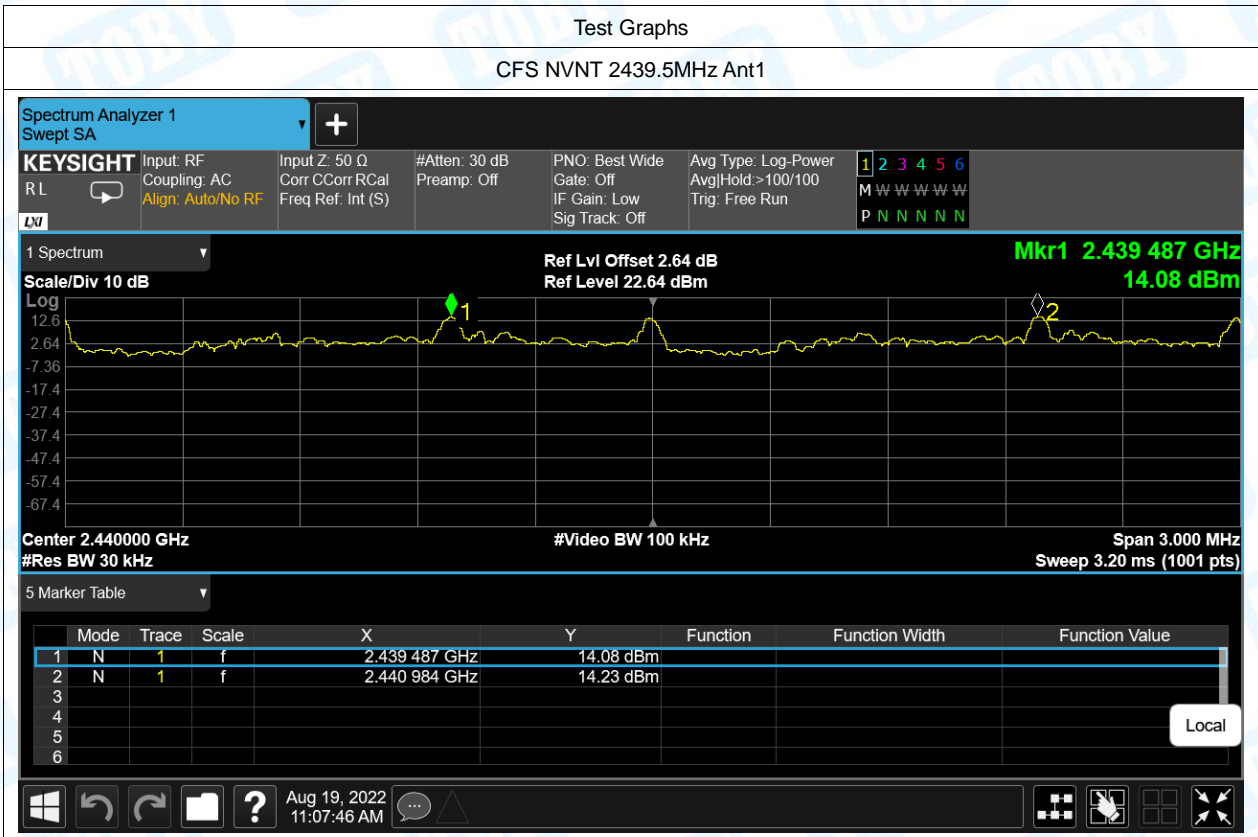
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	GFSK	2409.5	Ant1	No-Hopping	2310	-47.79	2	49.47	Peak	74	Pass
NVNT	GFSK	2409.5	Ant1	No-Hopping	2310	-56.65	2	40.61	Average	54	Pass
NVNT	GFSK	2409.5	Ant1	No-Hopping	2386.59	-30.01	2	67.25	Peak	74	Pass
NVNT	GFSK	2409.5	Ant1	No-Hopping	2377.068	-55.75	2	41.51	Average	54	Pass
NVNT	GFSK	2409.5	Ant1	No-Hopping	2390	-47.72	2	49.54	Peak	74	Pass
NVNT	GFSK	2409.5	Ant1	No-Hopping	2390	-56.72	2	40.54	Average	54	Pass
NVNT	GFSK	2468	Ant1	No-Hopping	2483.5	-48.95	2	48.31	Peak	74	Pass
NVNT	GFSK	2468	Ant1	No-Hopping	2483.5	-55.4	2	41.86	Average	54	Pass
NVNT	GFSK	2468	Ant1	No-Hopping	2486.212	-25.84	2	71.42	Peak	74	Pass
NVNT	GFSK	2468	Ant1	No-Hopping	2483.992	-54.52	2	42.74	Average	54	Pass
NVNT	GFSK	2468	Ant1	No-Hopping	2500	-47.18	2	50.08	Peak	74	Pass
NVNT	GFSK	2468	Ant1	No-Hopping	2500	-55.98	2	41.28	Average	54	Pass





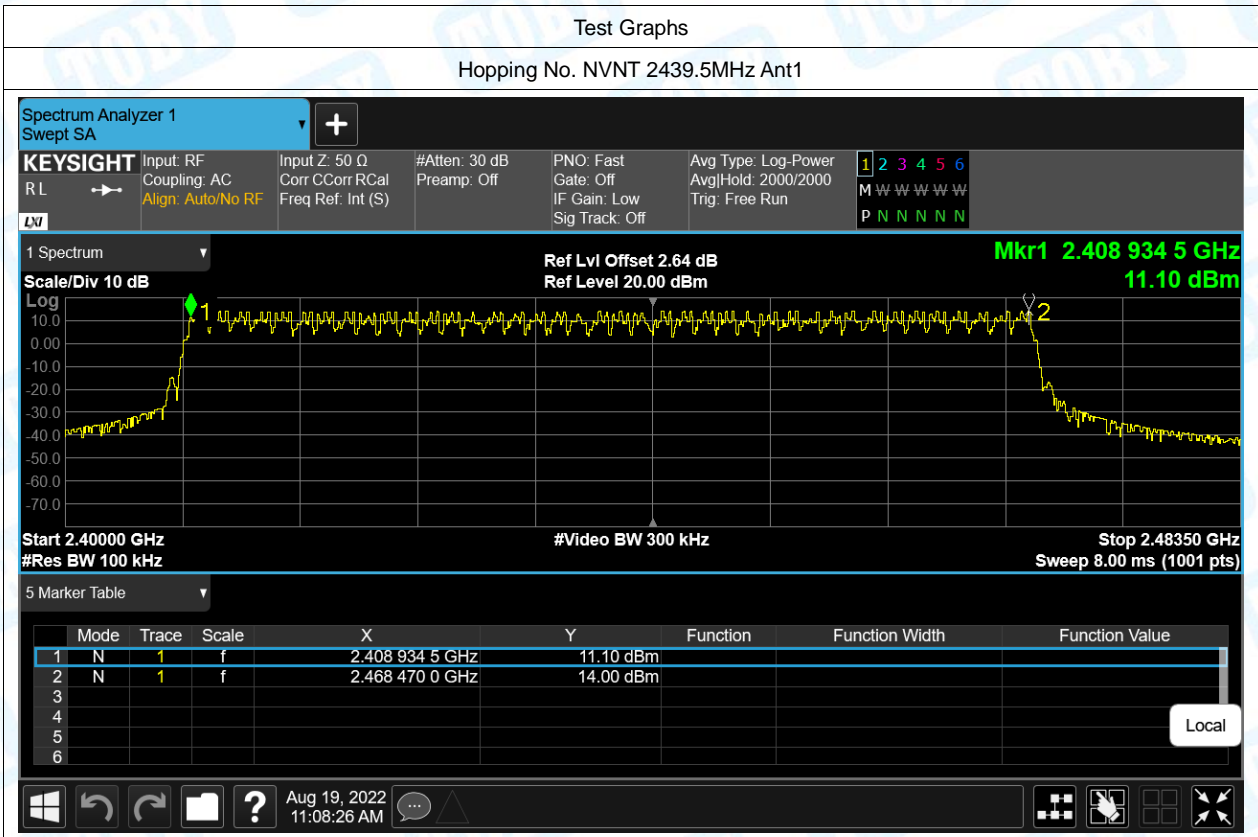
## 9. Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	GFSK	Ant1	2439.487	2440.984	1.497	1.427	Pass



## 10. Number of Hopping Channel

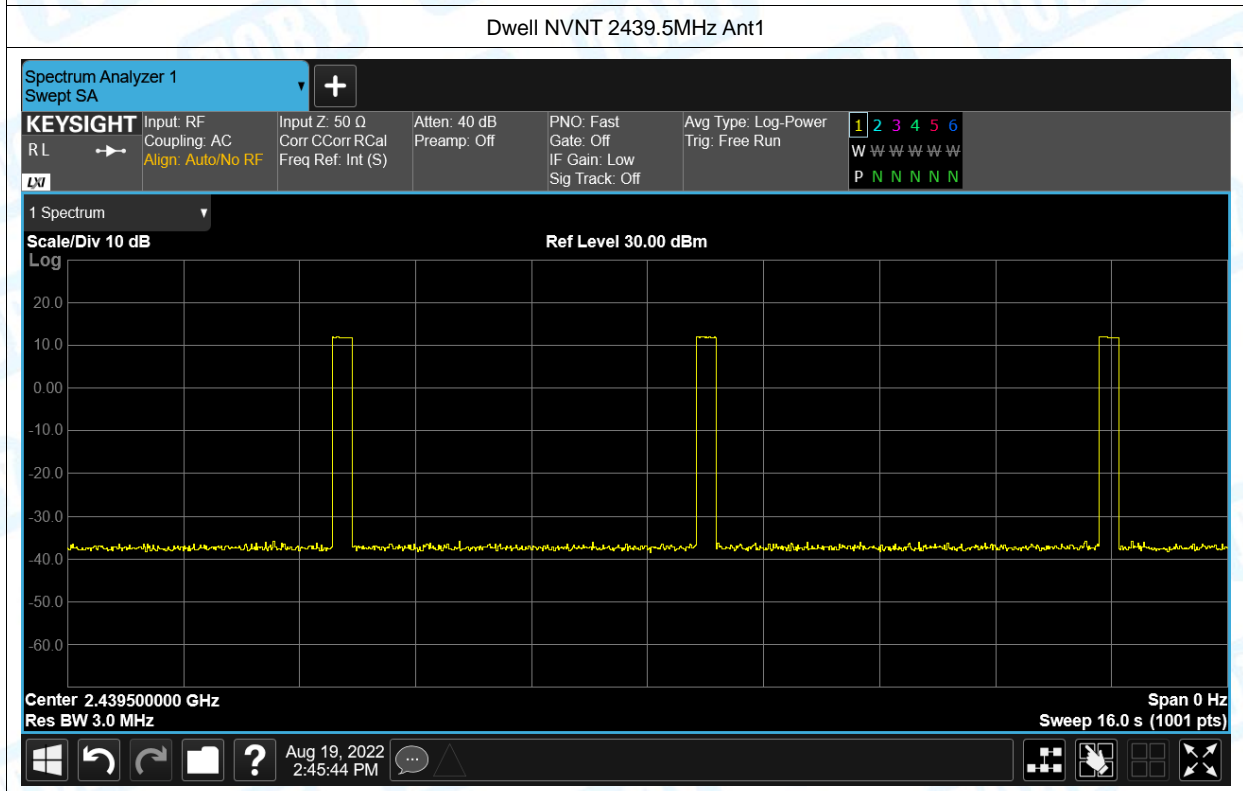
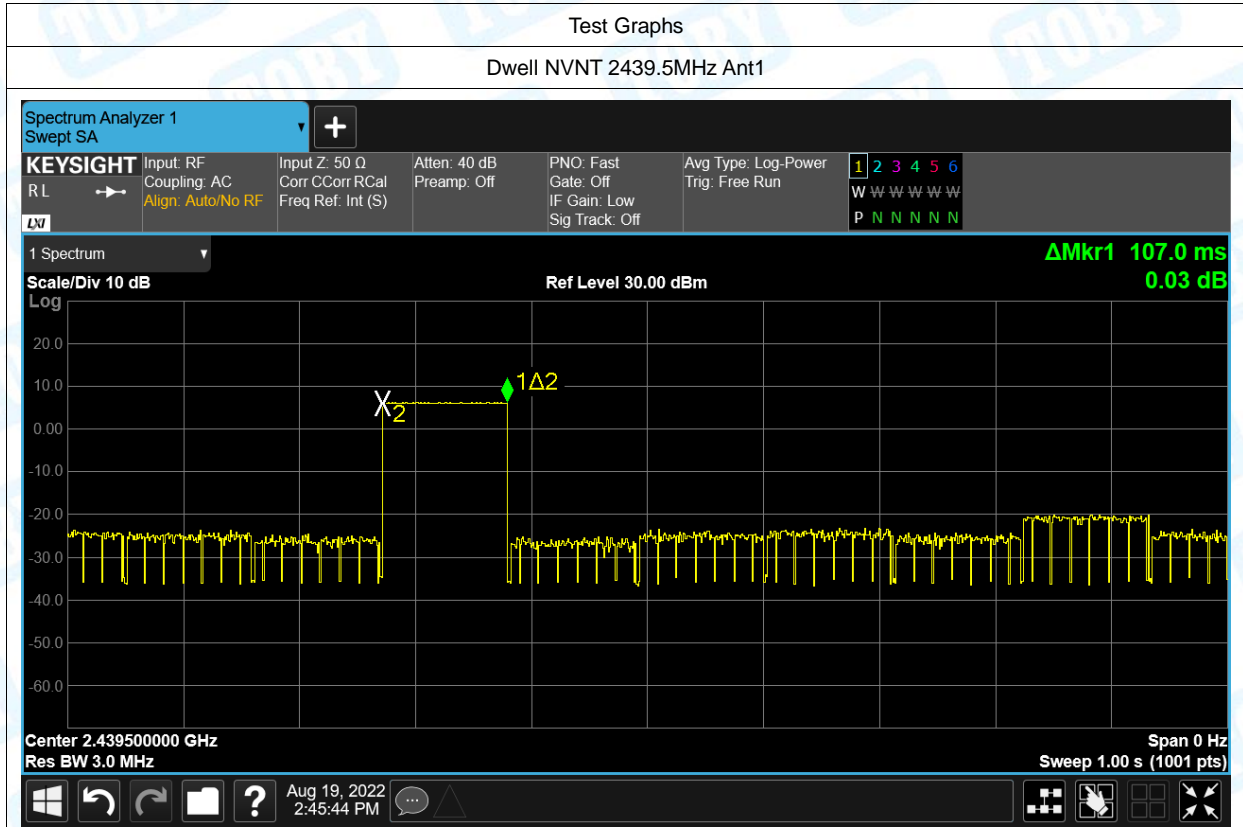
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	GFSK	Ant1	40	15	Pass



## 11.Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	GFSK	2442	Ant1	107	321	31600	400	Pass





-----End of the report-----