

RF Test Data for 2.4G

(Conducted Measurements)

General Description of EUT	
Product Name:	2.4GHz Digital Wireless Video Baby Monitor
Test Model:	HB40
Sample ID:	202208-0310-01_02
Environmental Conditions	
Temperature:	25℃
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-202208-0310-4	

Contents

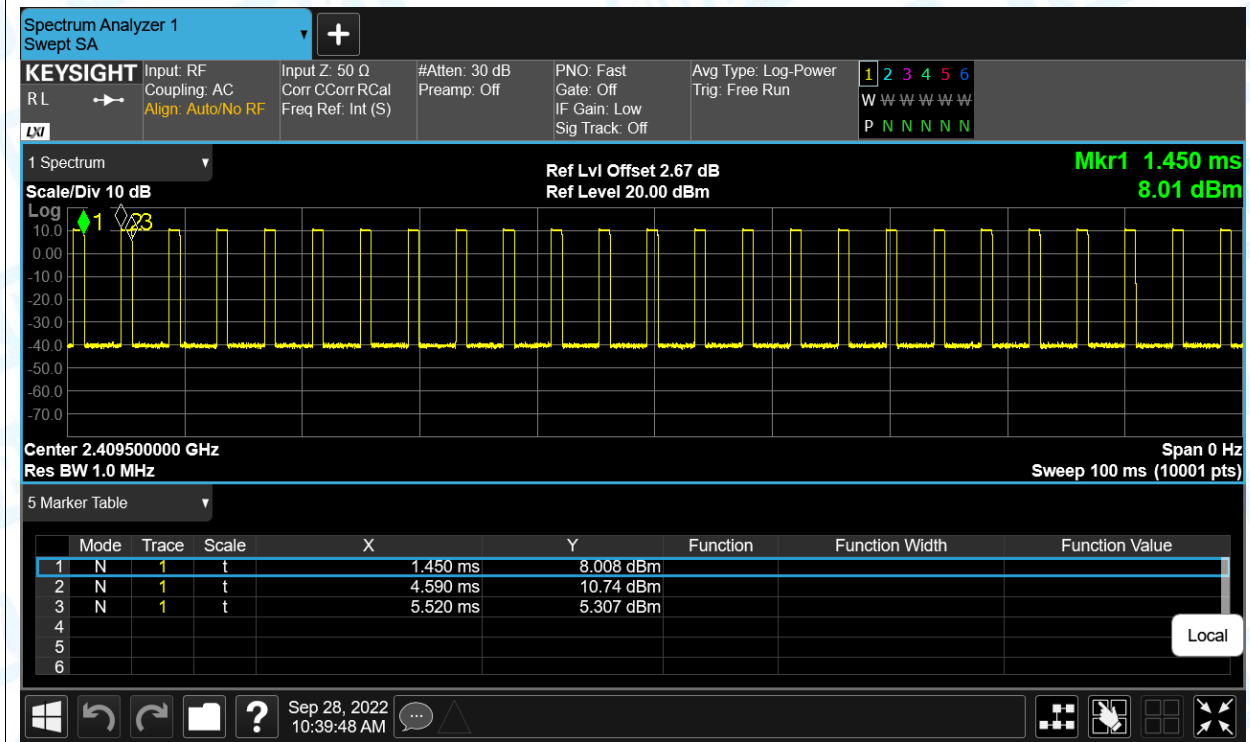
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1. Duty Cycle

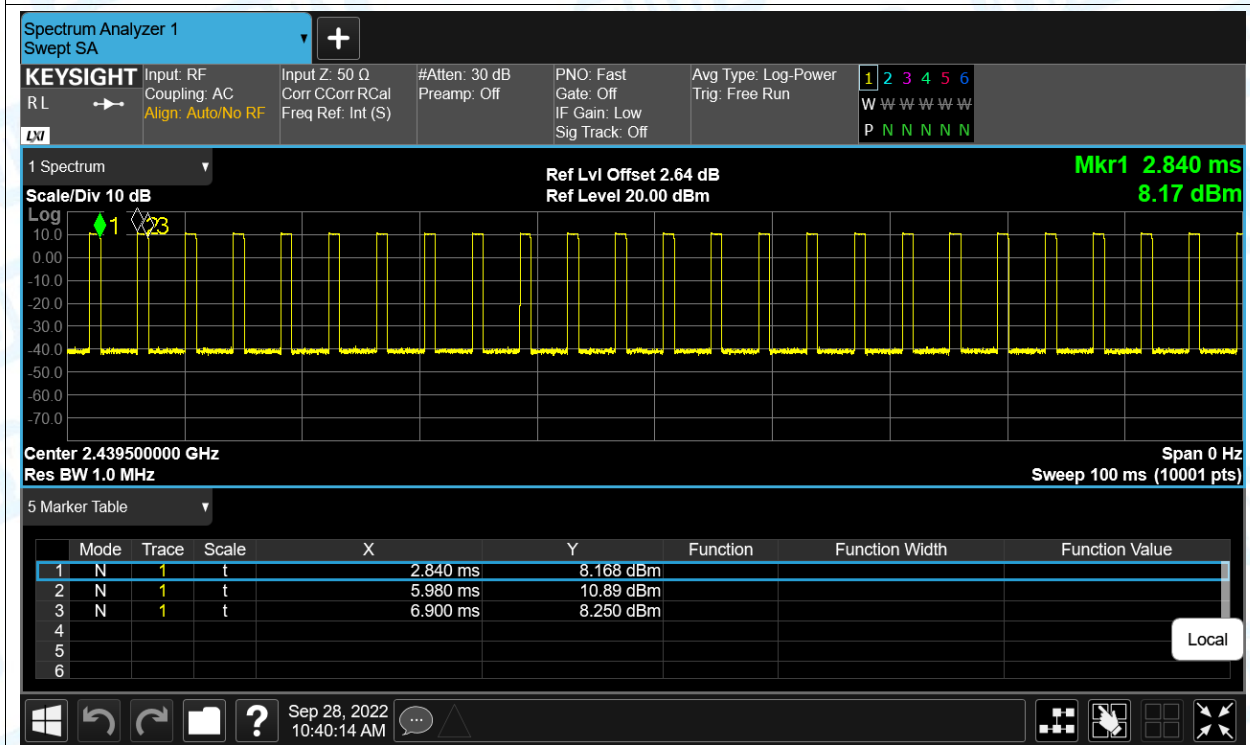
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	GFSK	2409.5	Ant1	22.85	6.41	1.08
NVNT	GFSK	2439.5	Ant1	22.66	6.45	1.09
NVNT	GFSK	2468	Ant1	22.6	6.46	1.09

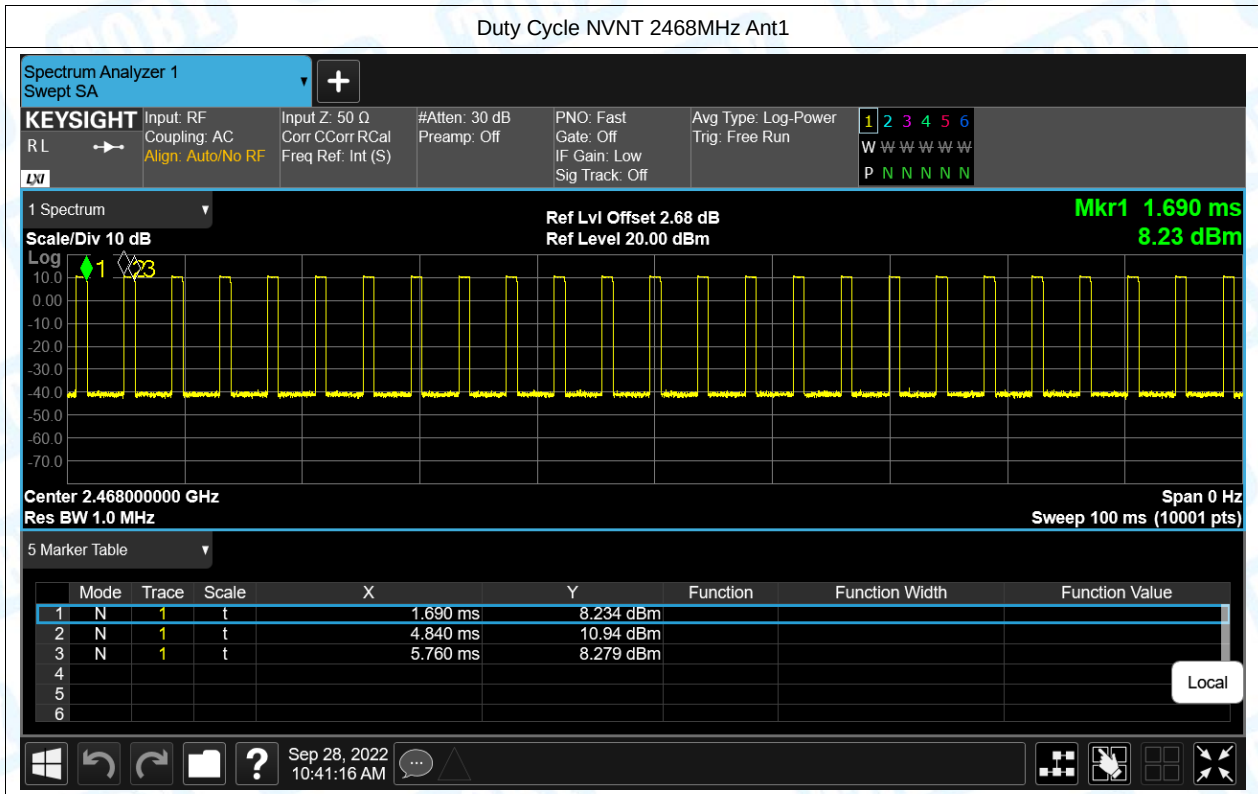
Test Graphs

Duty Cycle NVNT 2409.5MHz Ant1



Duty Cycle NVNT 2439.5MHz Ant1



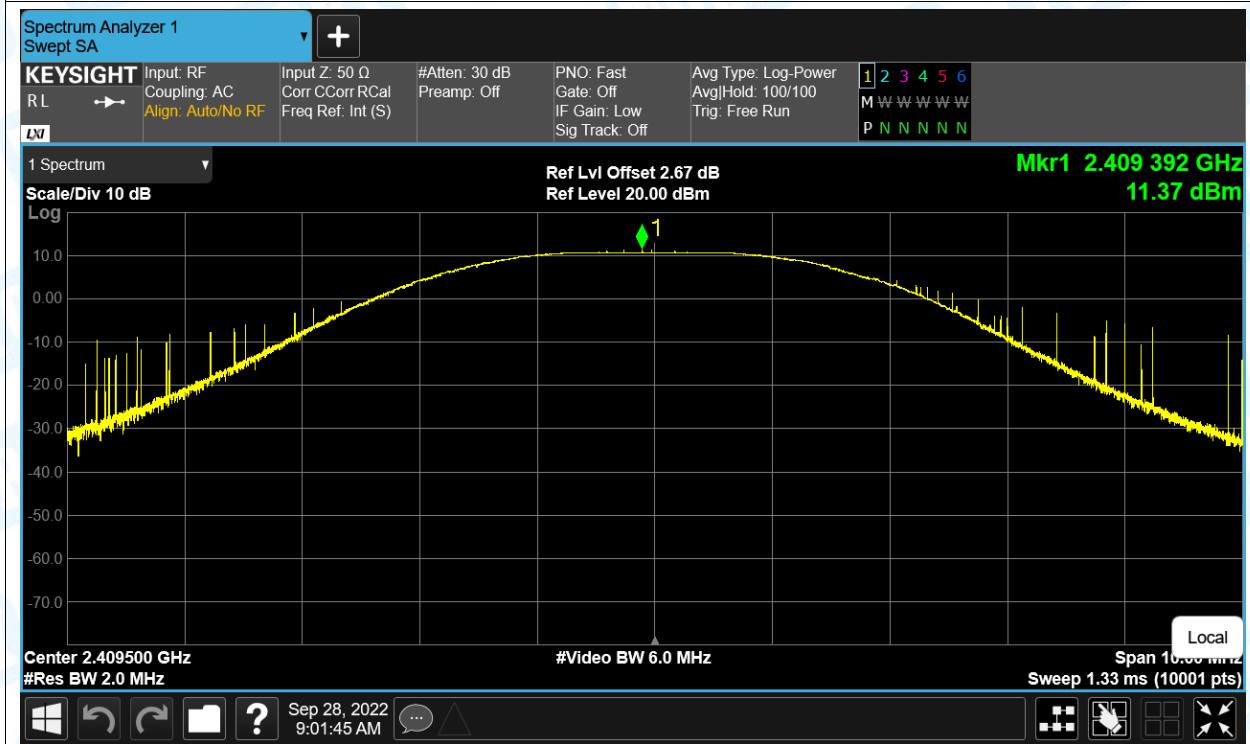


2. Maximum Conducted Output Power

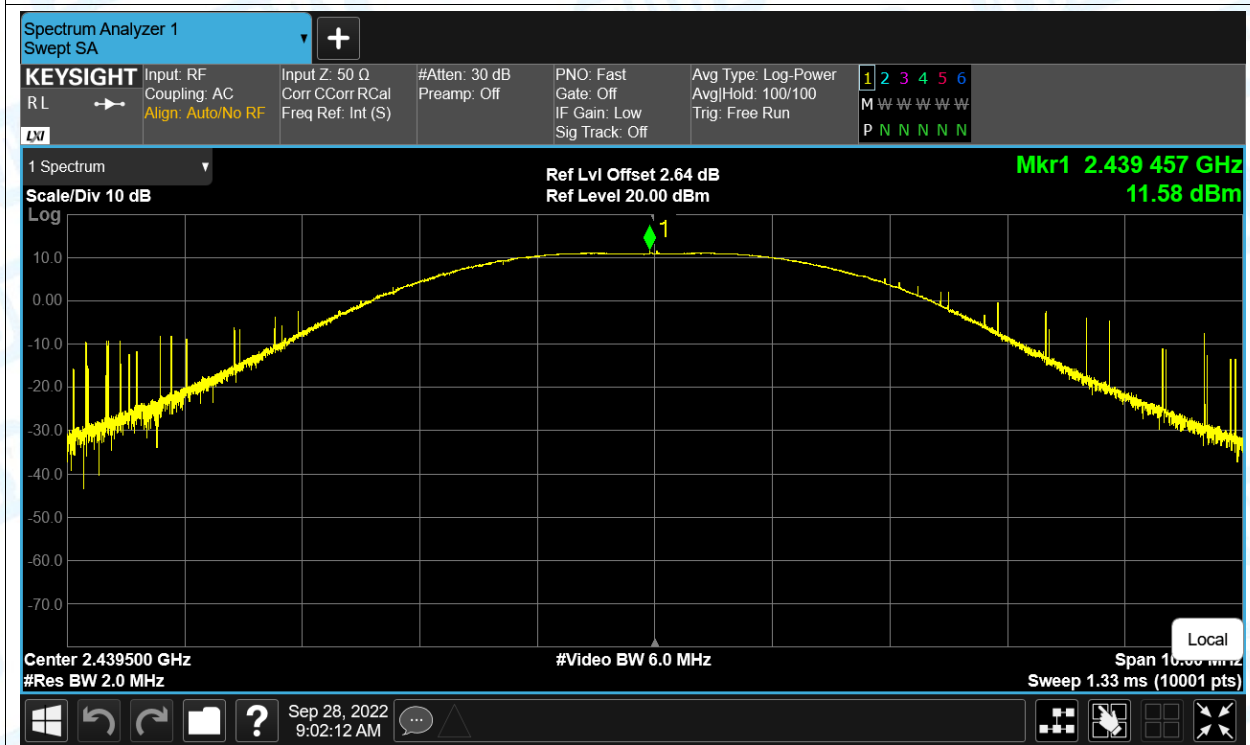
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	GFSK	2409.5	Ant1	11.37	21	Pass
NVNT	GFSK	2439.5	Ant1	11.581	21	Pass
NVNT	GFSK	2468	Ant1	11.627	21	Pass

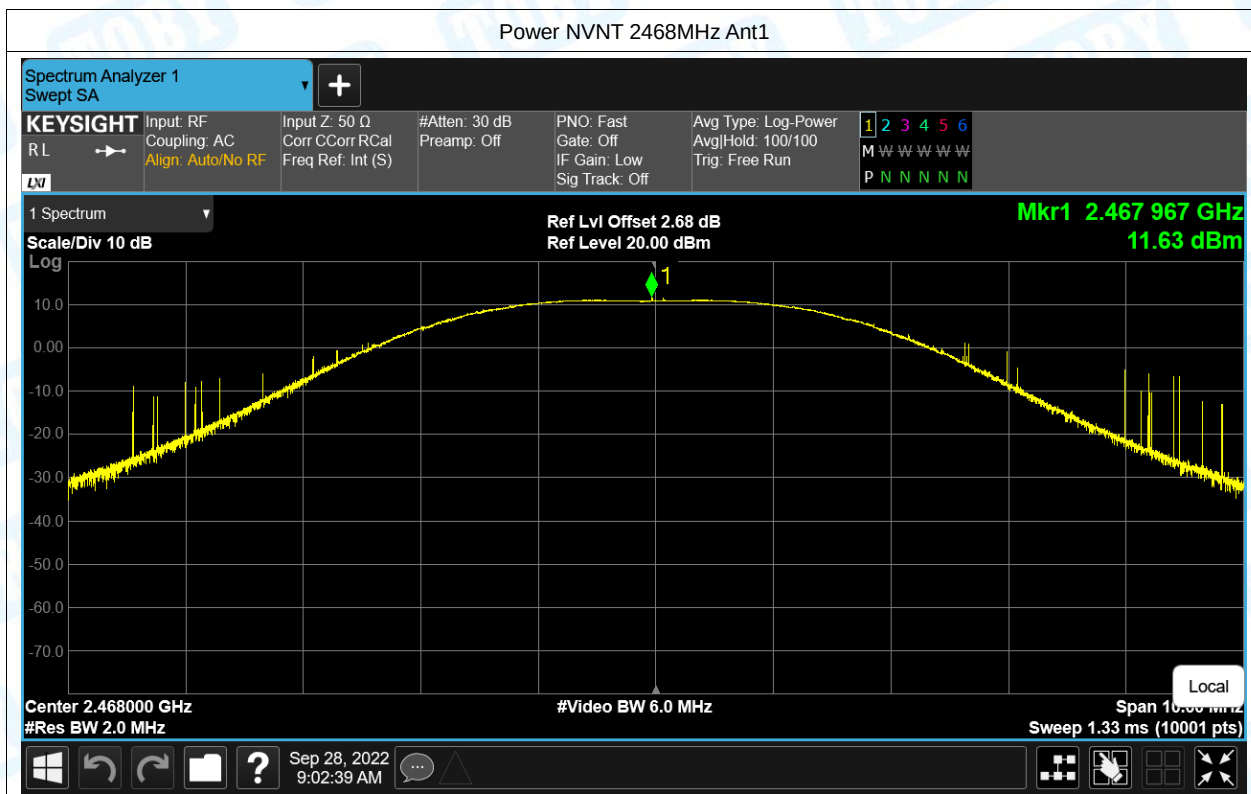
Test Graphs

Power NVNT 2409.5MHz Ant1



Power NVNT 2439.5MHz Ant1



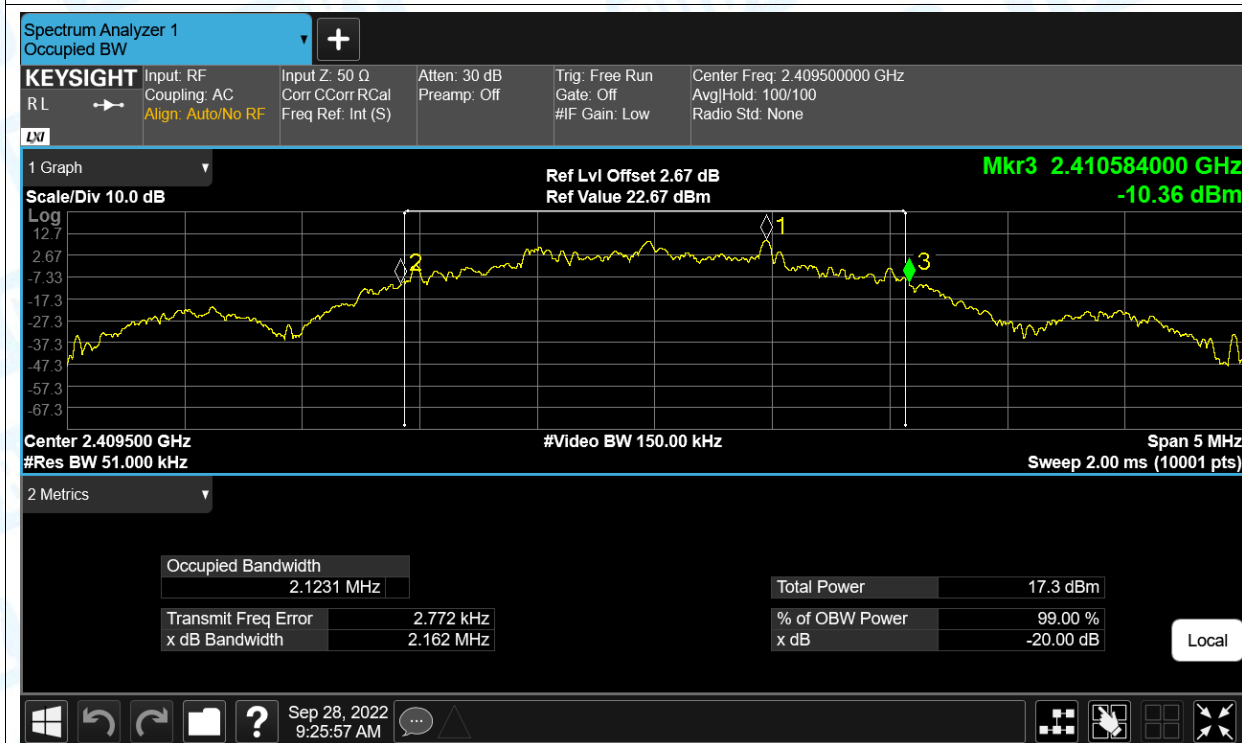


3. -20dB Bandwidth

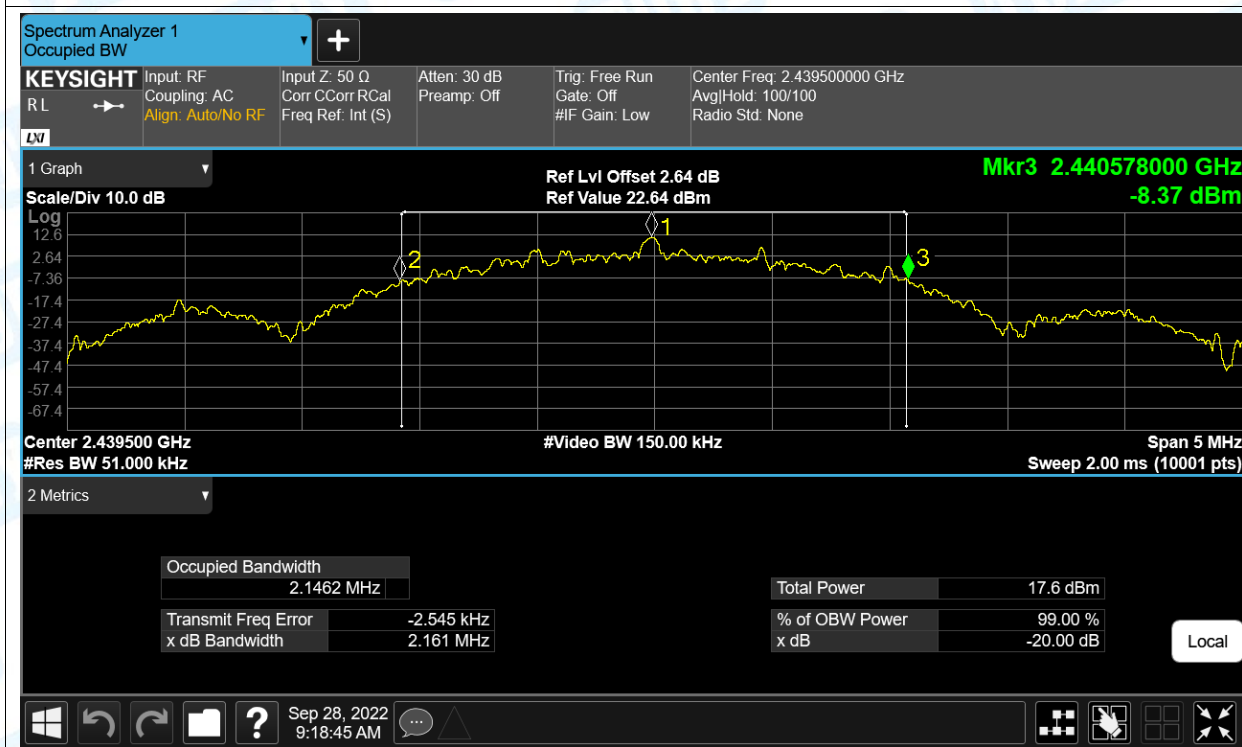
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	GFSK	2409.5	Ant1	2.16	0	Pass
NVNT	GFSK	2439.5	Ant1	2.16	0	Pass
NVNT	GFSK	2468	Ant1	2.14	0	Pass

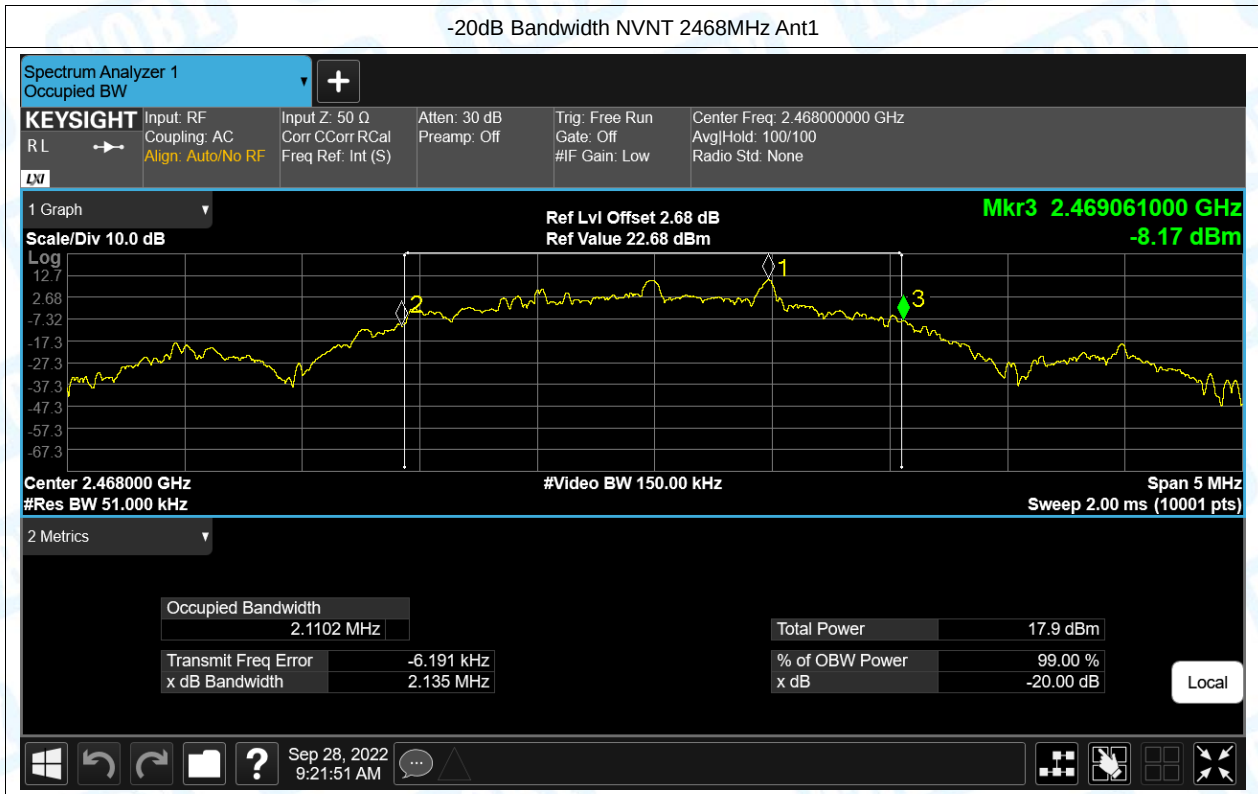
Test Graphs

-20dB Bandwidth NVNT 2409.5MHz Ant1



-20dB Bandwidth NVNT 2439.5MHz Ant1



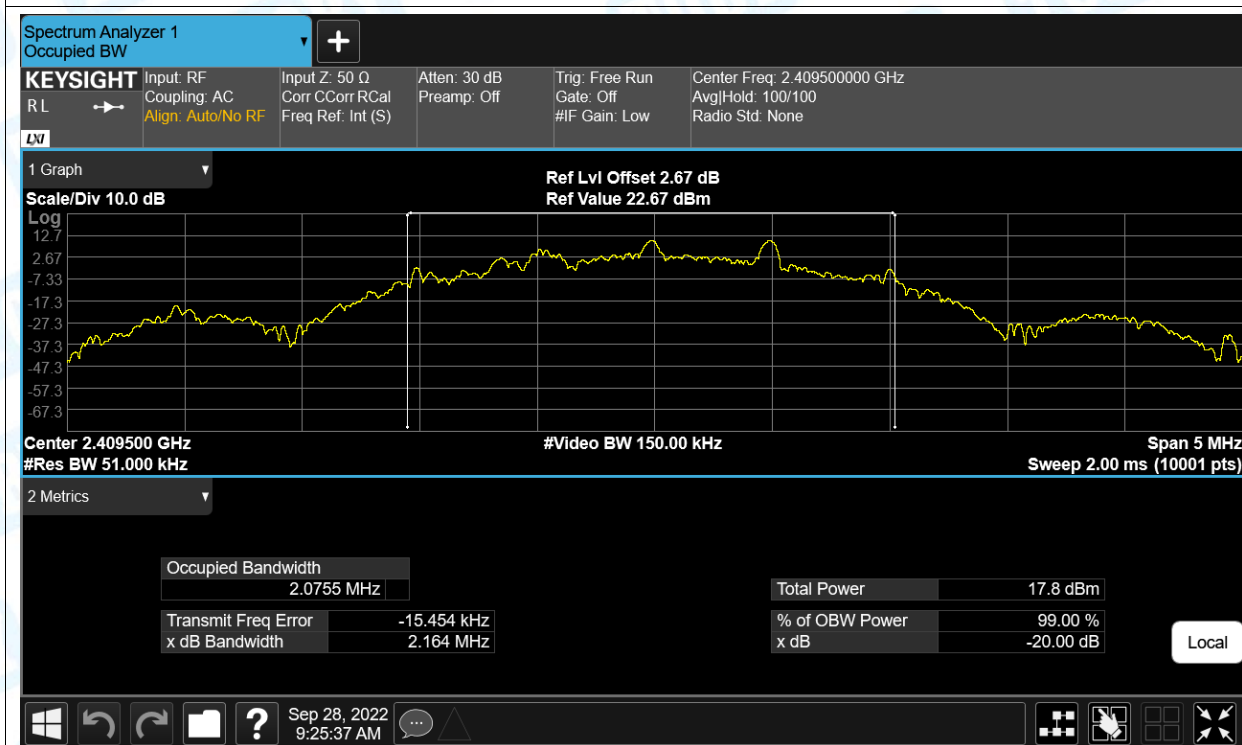


4. Occupied Channel Bandwidth

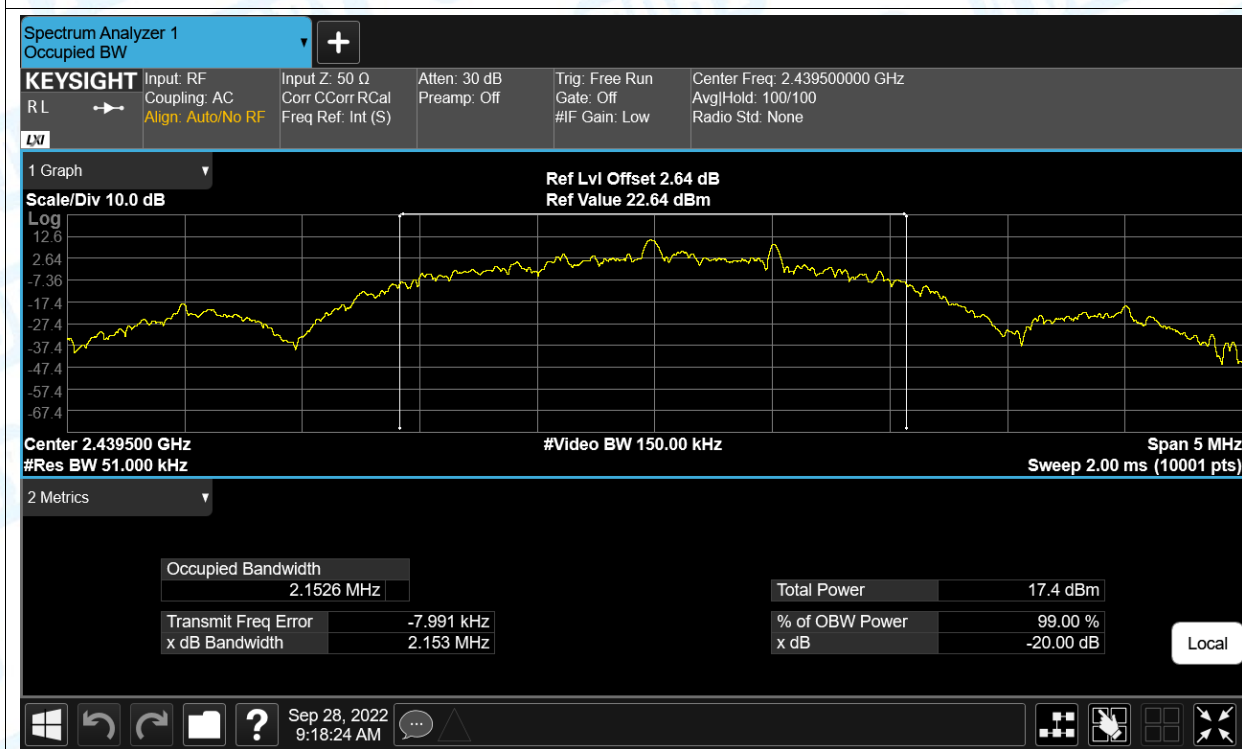
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	GFSK	2409.5	Ant1	2.075
NVNT	GFSK	2439.5	Ant1	2.153
NVNT	GFSK	2468	Ant1	2.142

Test Graphs

OBW NVNT 2409.5MHz Ant1



OBW NVNT 2439.5MHz Ant1



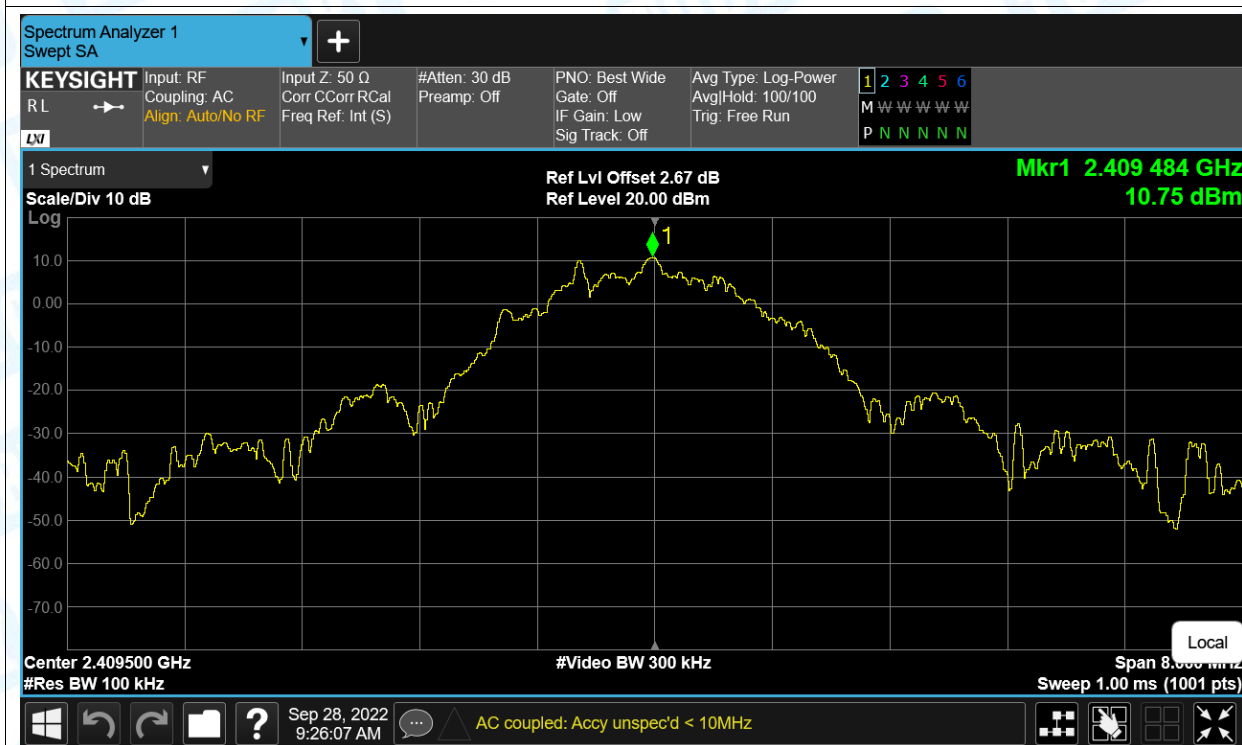


5. Band Edge

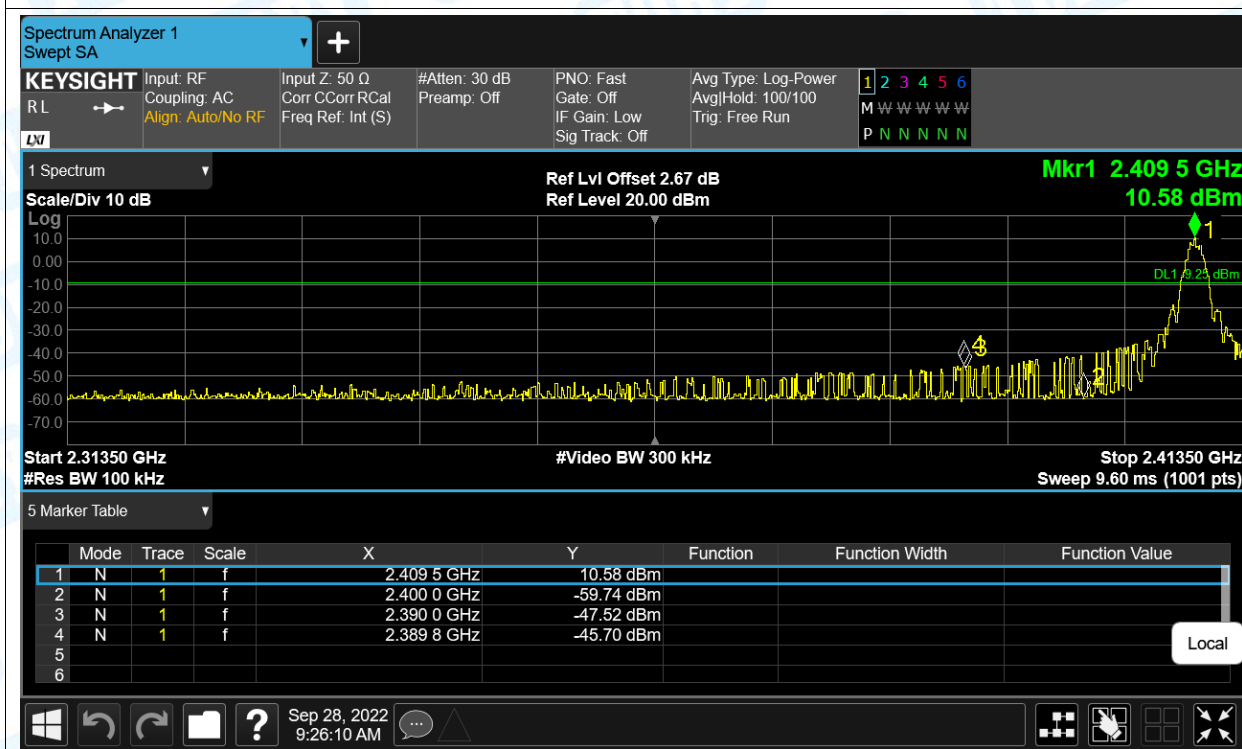
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	GFSK	2409.5	Ant1	No-Hopping	-56.45	-20	Pass
NVNT	GFSK	2468	Ant1	No-Hopping	-55.93	-20	Pass

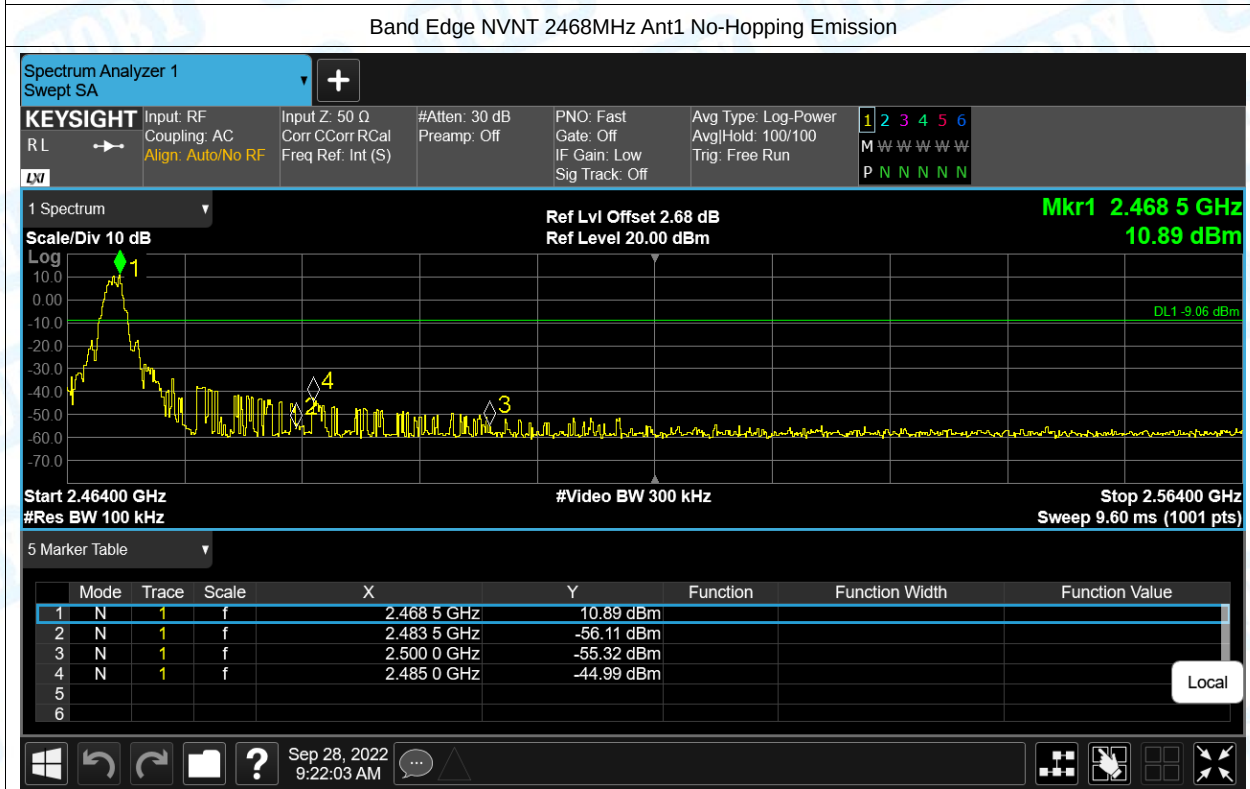
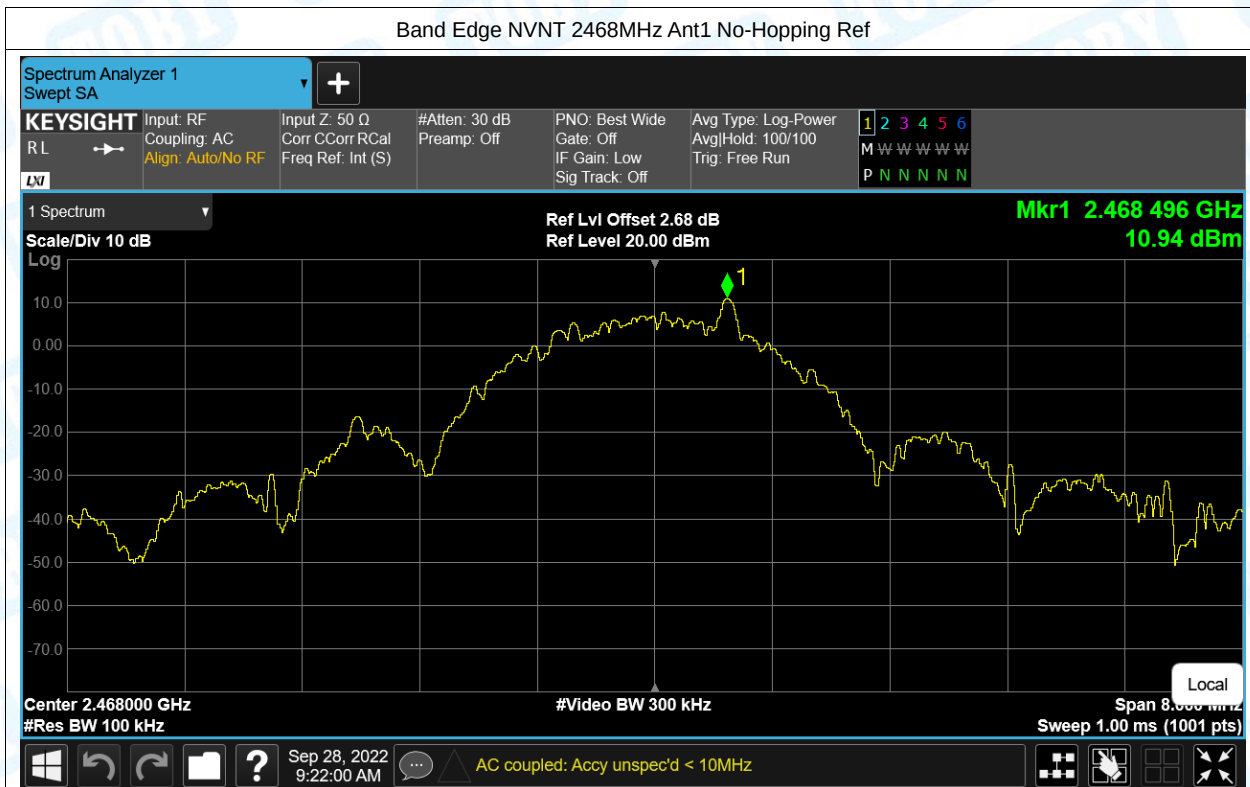
Test Graphs

Band Edge NVNT 2409.5MHz Ant1 No-Hopping Ref



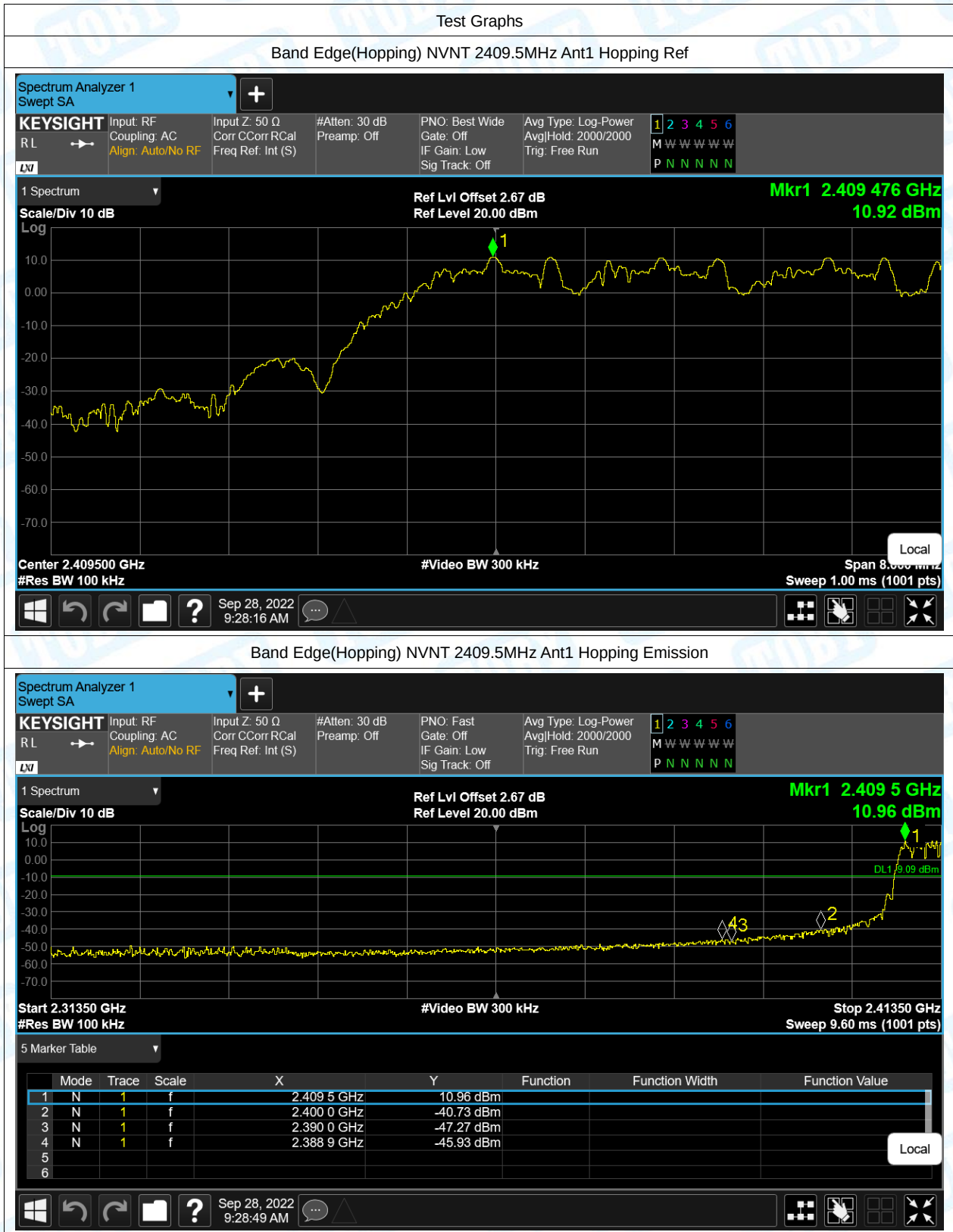
Band Edge NVNT 2409.5MHz Ant1 No-Hopping Emission

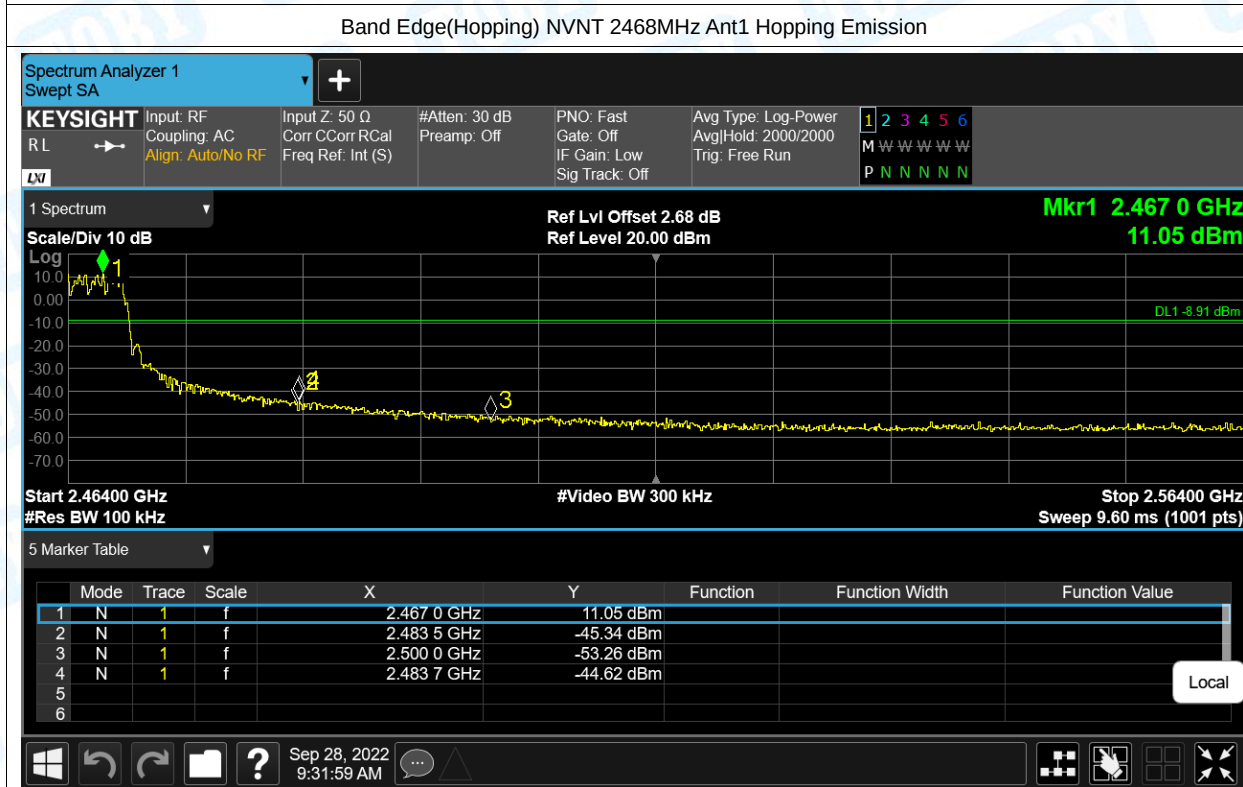
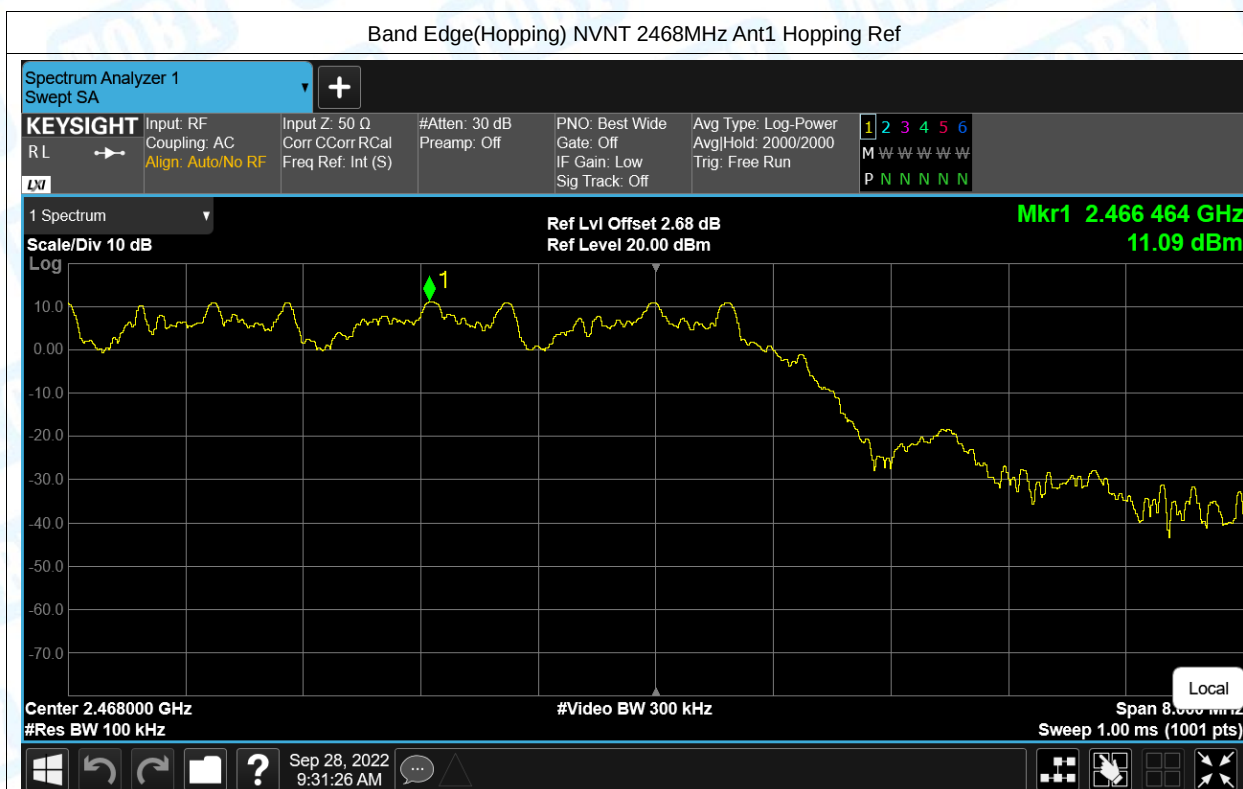




6. Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	GFSK	2409.5	Ant1	Hopping	-56.85	-20	Pass
NVNT	GFSK	2468	Ant1	Hopping	-55.71	-20	Pass



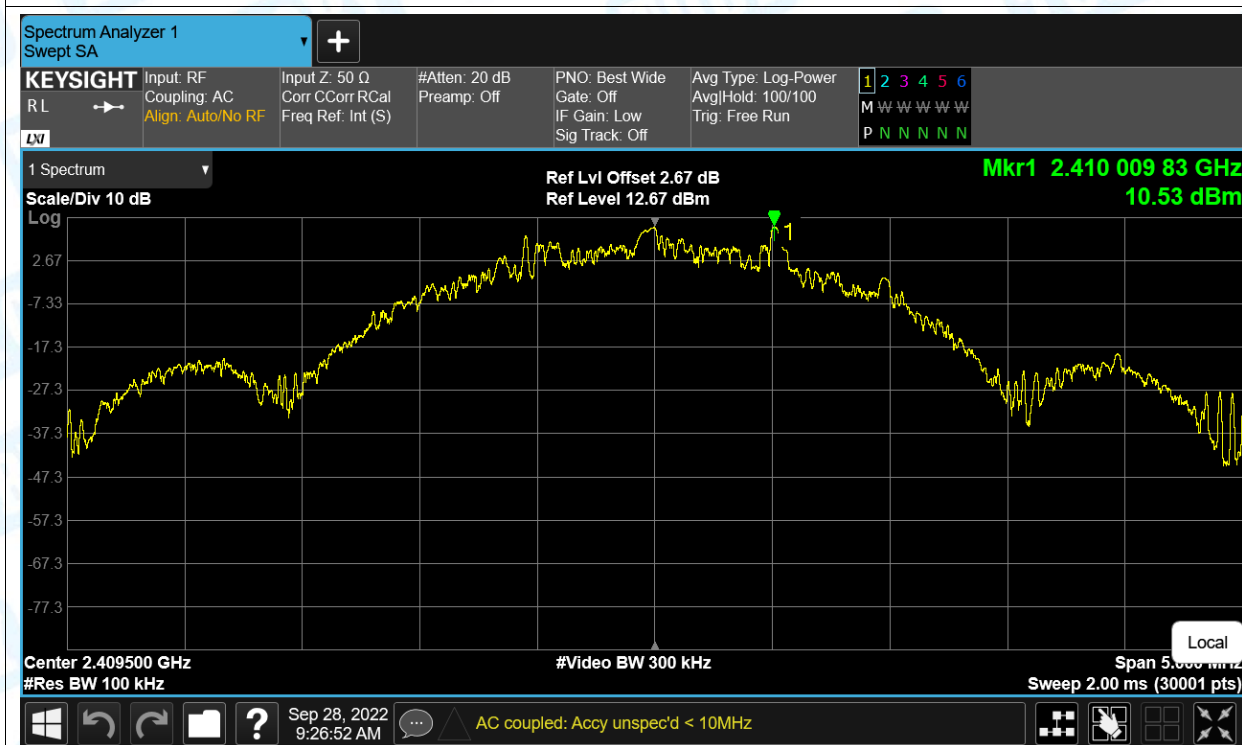


7. Conducted RF Spurious Emission

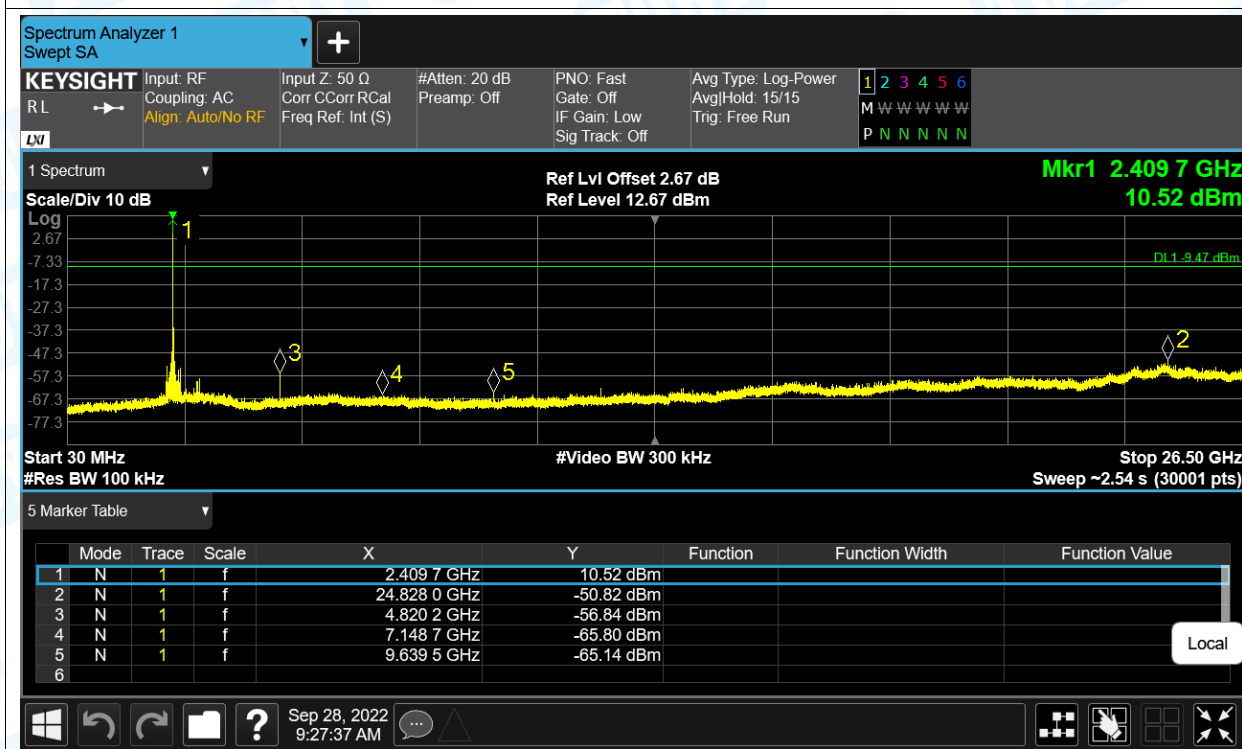
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	GFSK	2409.5	Ant1	-61.35	-20	Pass
NVNT	GFSK	2439.5	Ant1	-62.64	-20	Pass
NVNT	GFSK	2468	Ant1	-60.35	-20	Pass

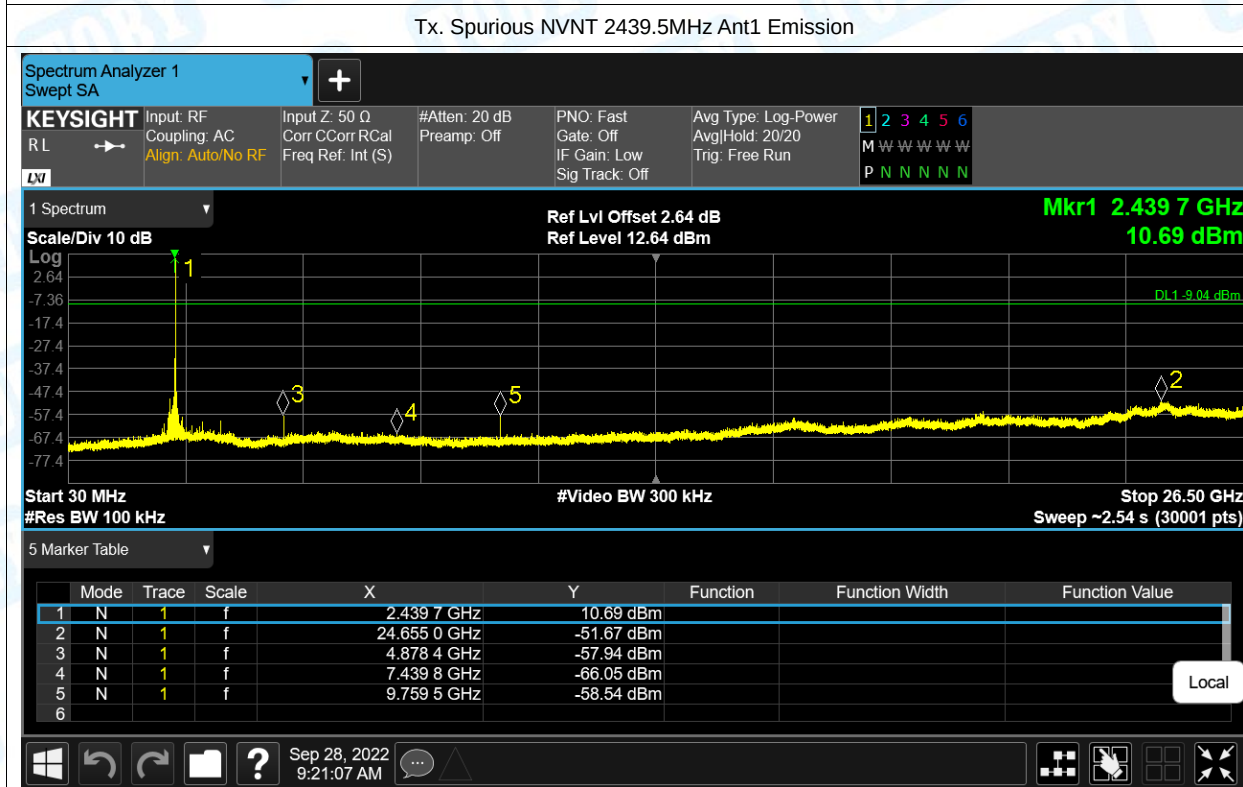
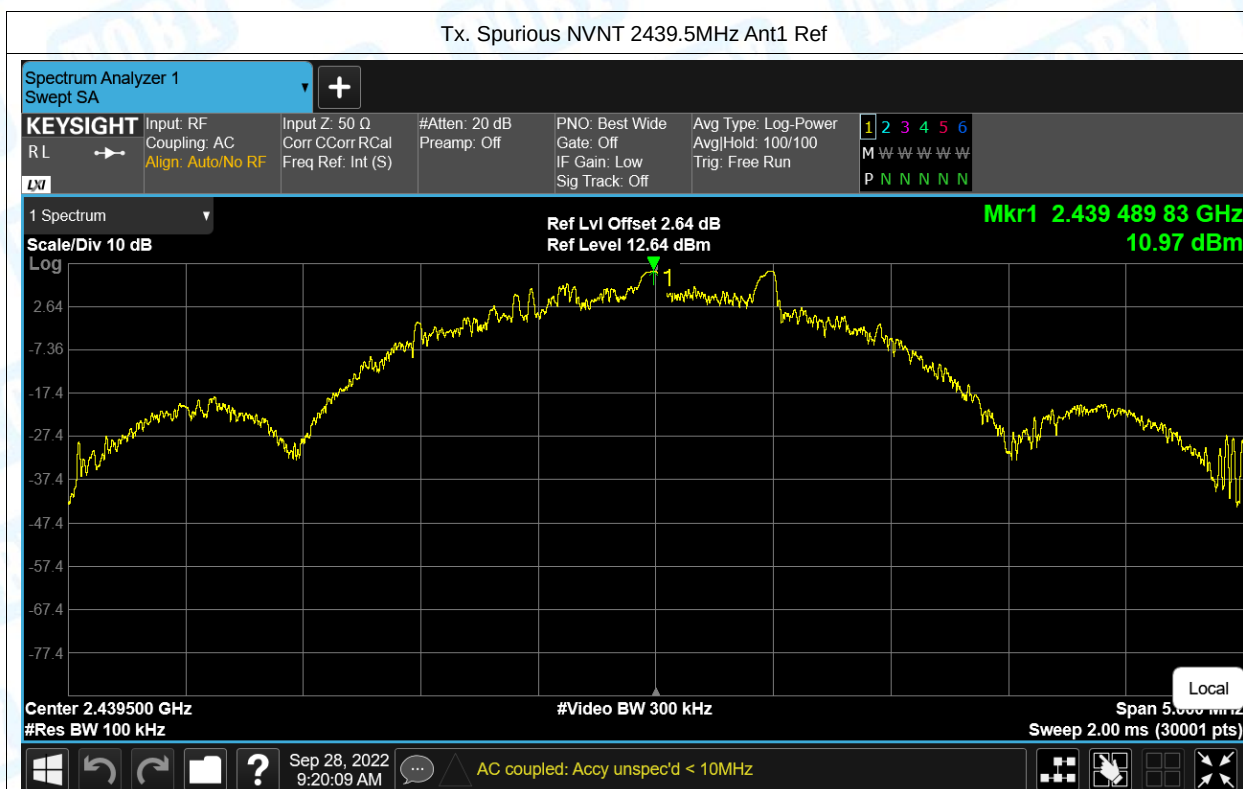
Test Graphs

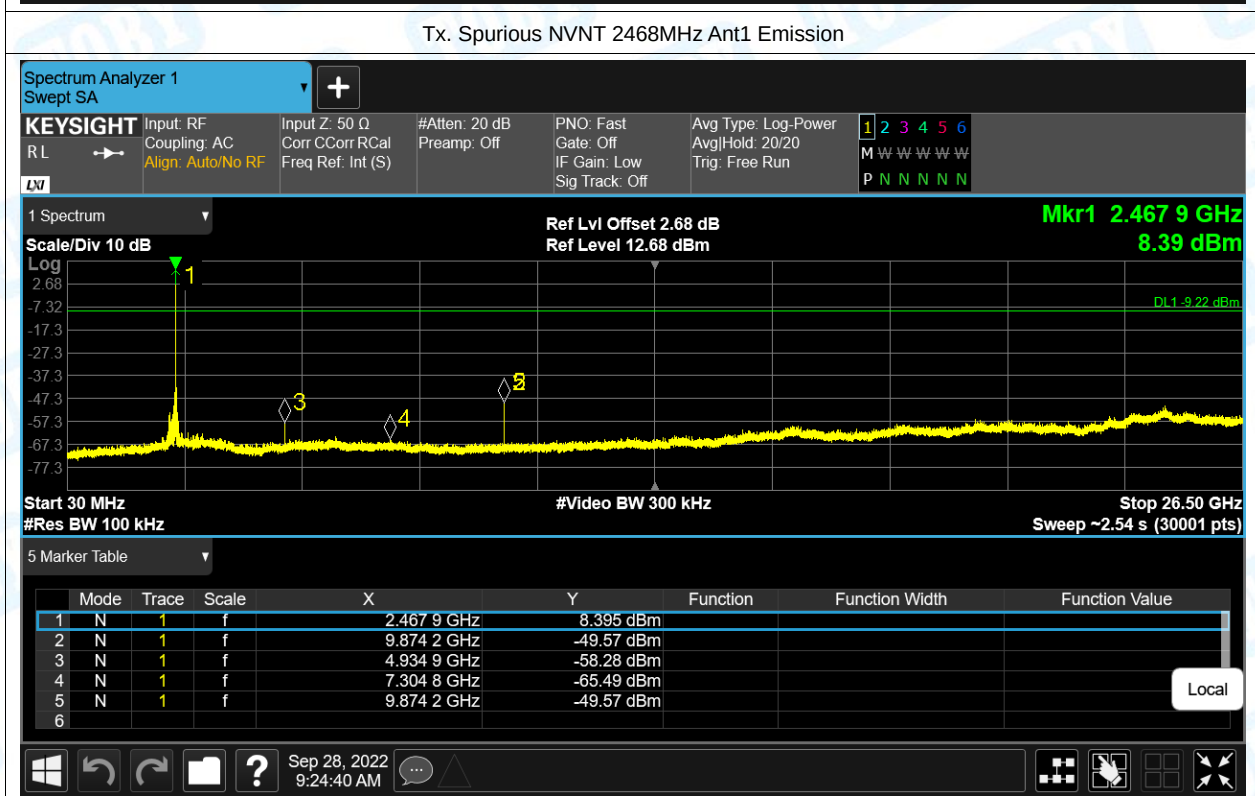
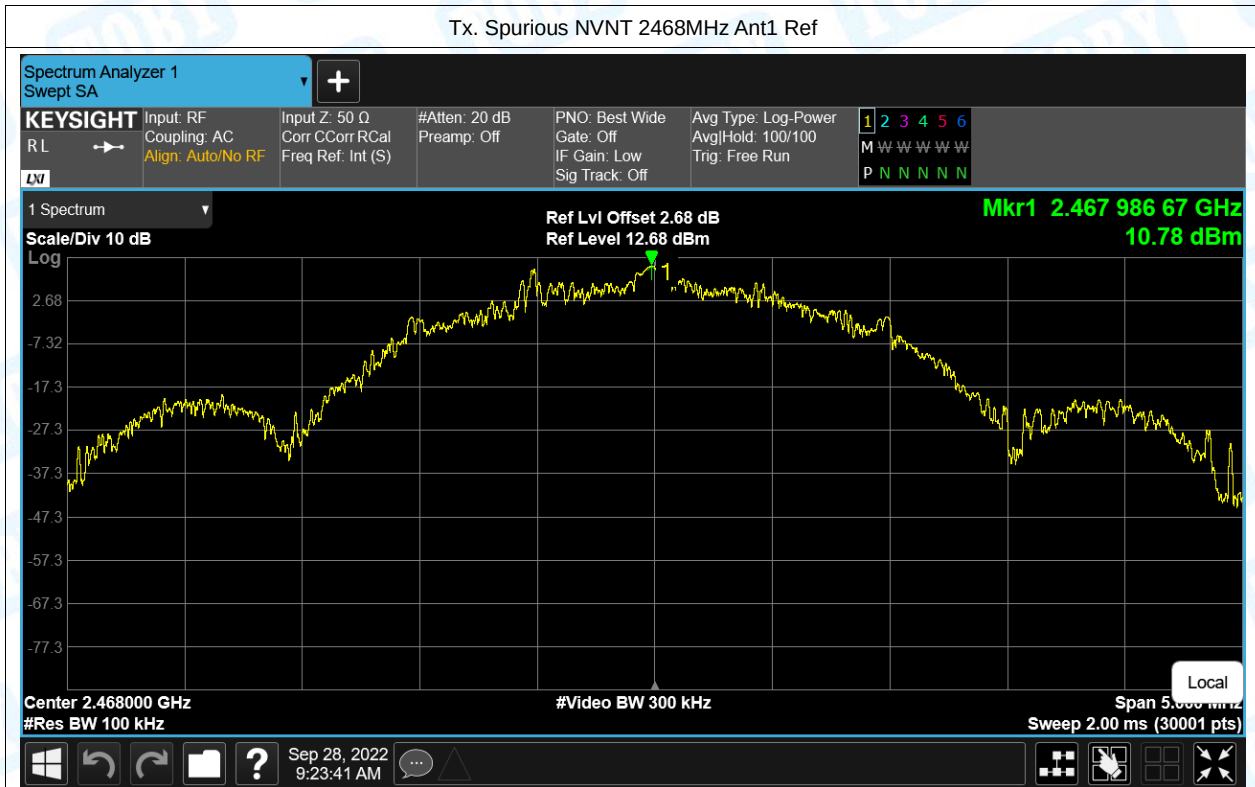
Tx. Spurious NVNT 2409.5MHz Ant1 Ref



Tx. Spurious NVNT 2409.5MHz Ant1 Emission





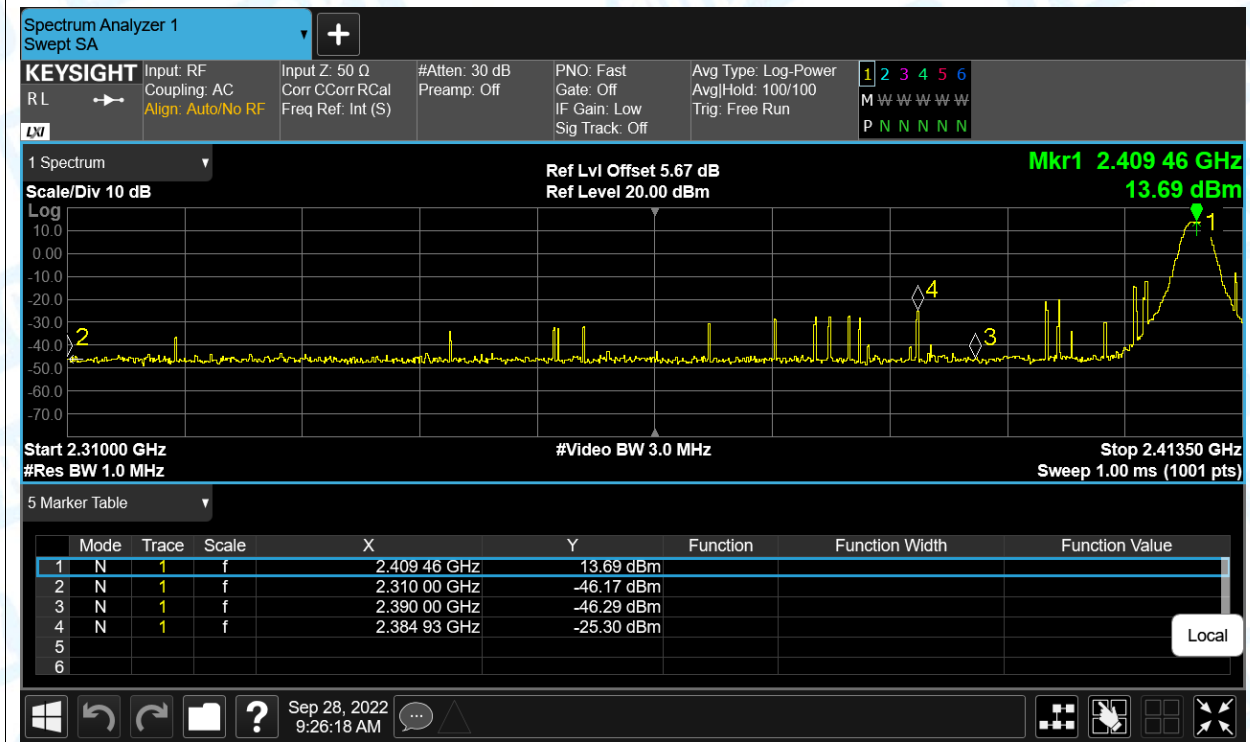


8. Restrict Band

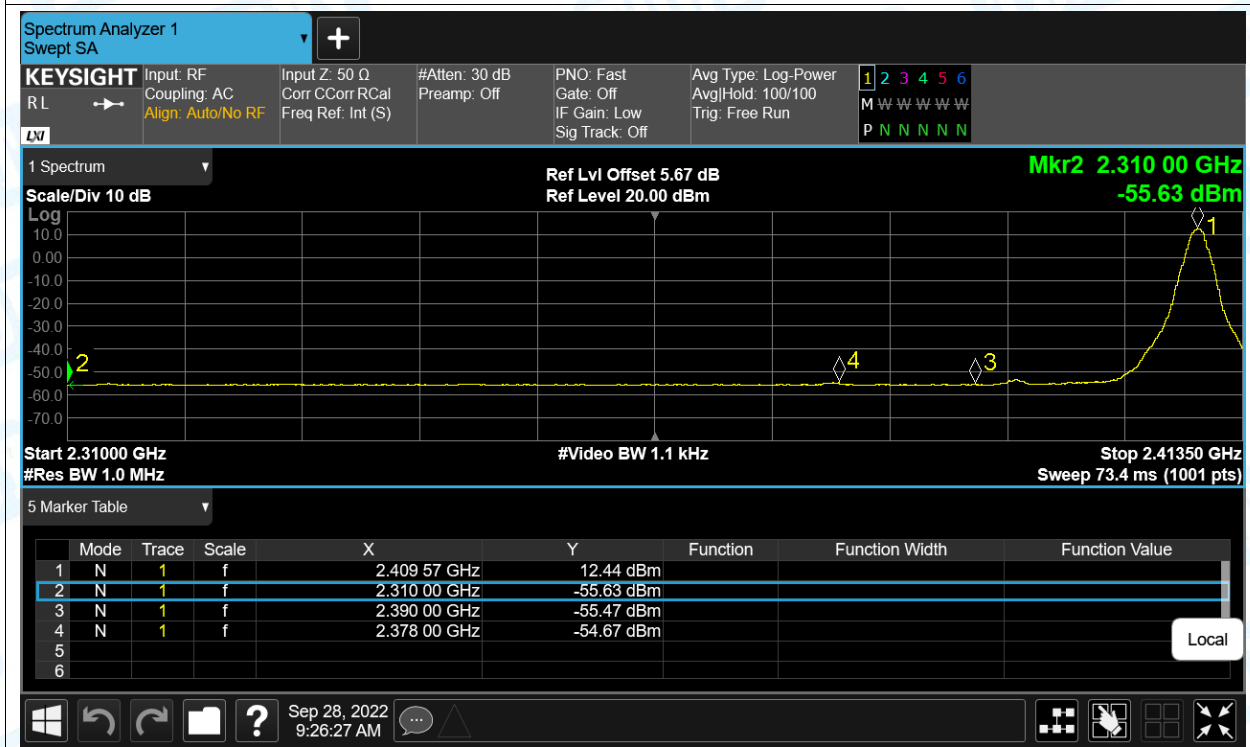
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	GFSK	2409.5	Ant1	No-Hopping	2310	-46.17	3	52.09	Peak	74	Pass
NVNT	GFSK	2409.5	Ant1	No-Hopping	2310	-55.63	3	42.63	Average	54	Pass
NVNT	GFSK	2409.5	Ant1	No-Hopping	2384.934	-25.3	3	72.96	Peak	74	Pass
NVNT	GFSK	2409.5	Ant1	No-Hopping	2377.9995	-54.67	3	43.59	Average	54	Pass
NVNT	GFSK	2409.5	Ant1	No-Hopping	2390	-46.29	3	51.97	Peak	74	Pass
NVNT	GFSK	2409.5	Ant1	No-Hopping	2390	-55.47	3	42.79	Average	54	Pass
NVNT	GFSK	2468	Ant1	No-Hopping	2483.5	-45.25	3	53.01	Peak	74	Pass
NVNT	GFSK	2468	Ant1	No-Hopping	2483.5	-53.31	3	44.95	Average	54	Pass
NVNT	GFSK	2468	Ant1	No-Hopping	2487.184	-24.44	3	73.82	Peak	74	Pass
NVNT	GFSK	2468	Ant1	No-Hopping	2484.16	-52.28	3	45.98	Average	54	Pass
NVNT	GFSK	2468	Ant1	No-Hopping	2500	-46.05	3	52.21	Peak	74	Pass
NVNT	GFSK	2468	Ant1	No-Hopping	2500	-54.18	3	44.08	Average	54	Pass

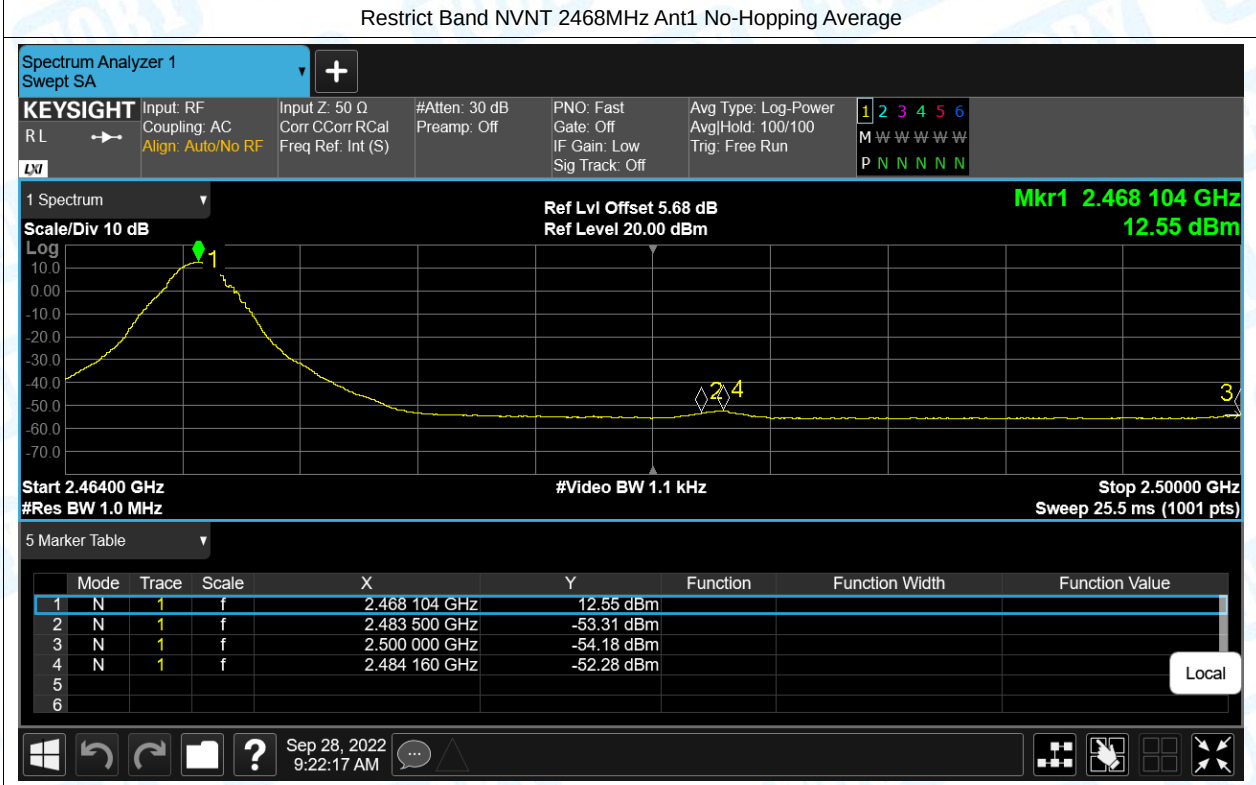
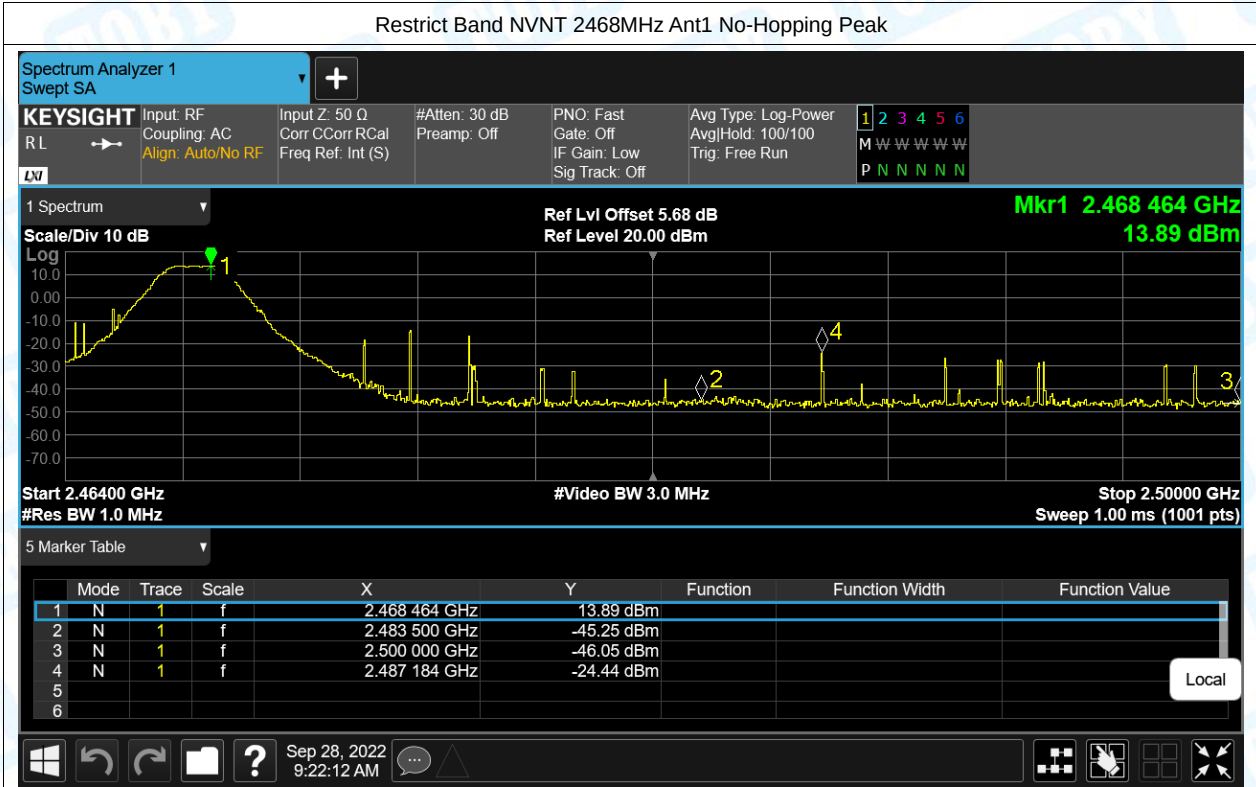
Test Graphs

Restrict Band NVNT 2409.5MHz Ant1 No-Hopping Peak



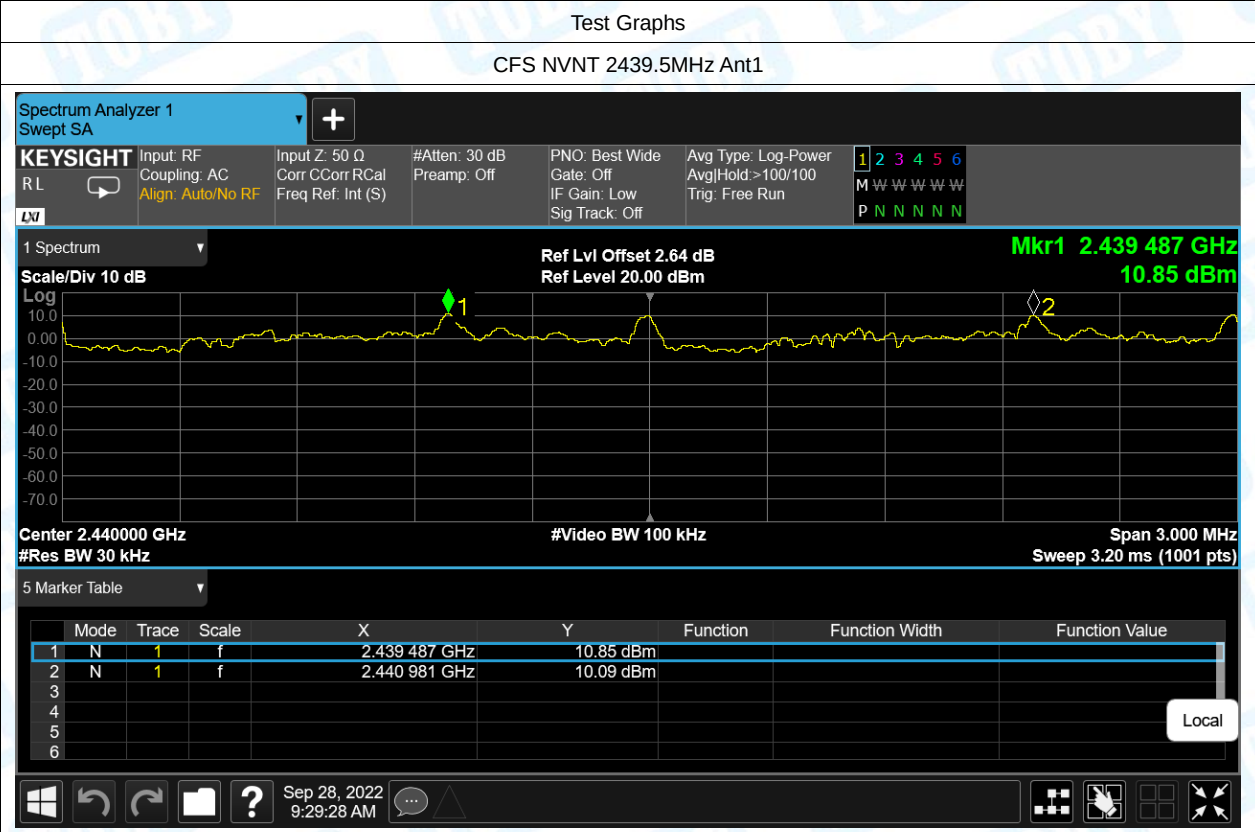
Restrict Band NVNT 2409.5MHz Ant1 No-Hopping Average





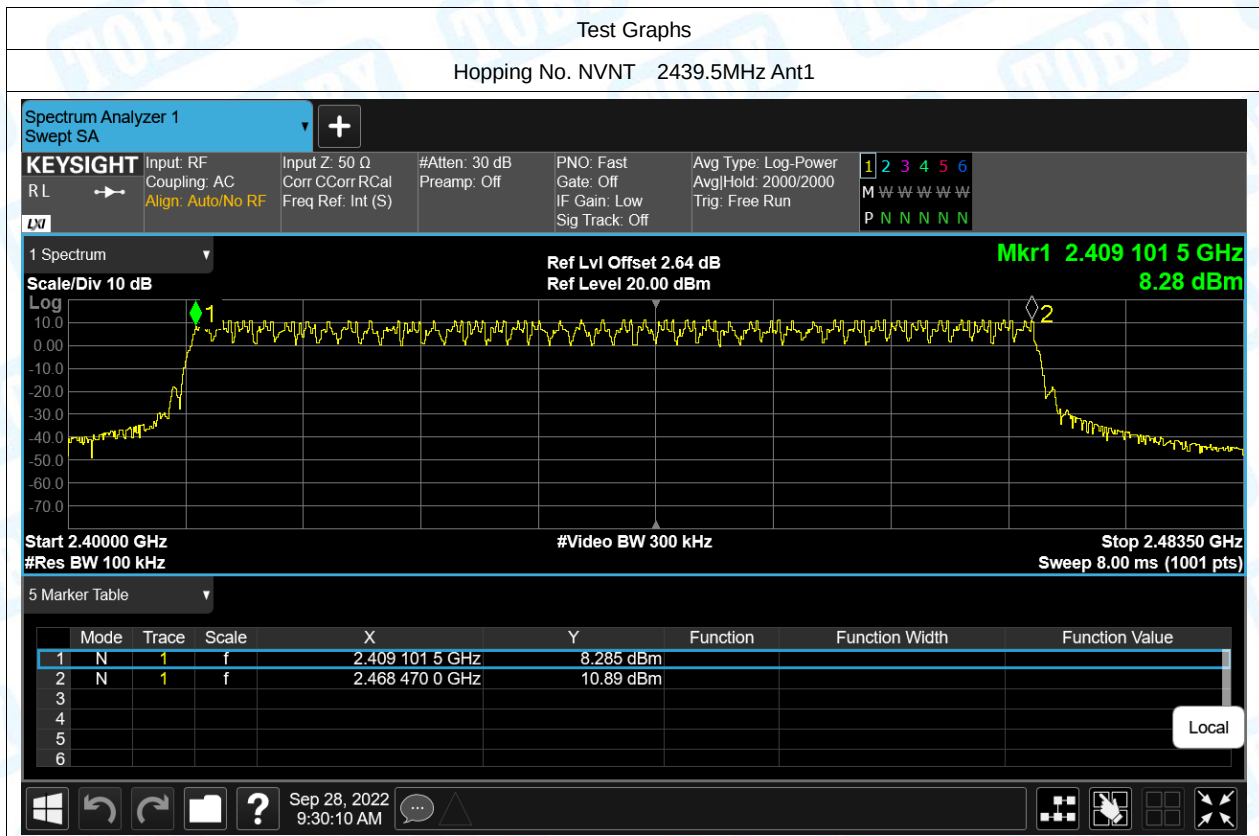
9. Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	GFSK	Ant1	2439.487	2440.981	1.494	1.44	Pass



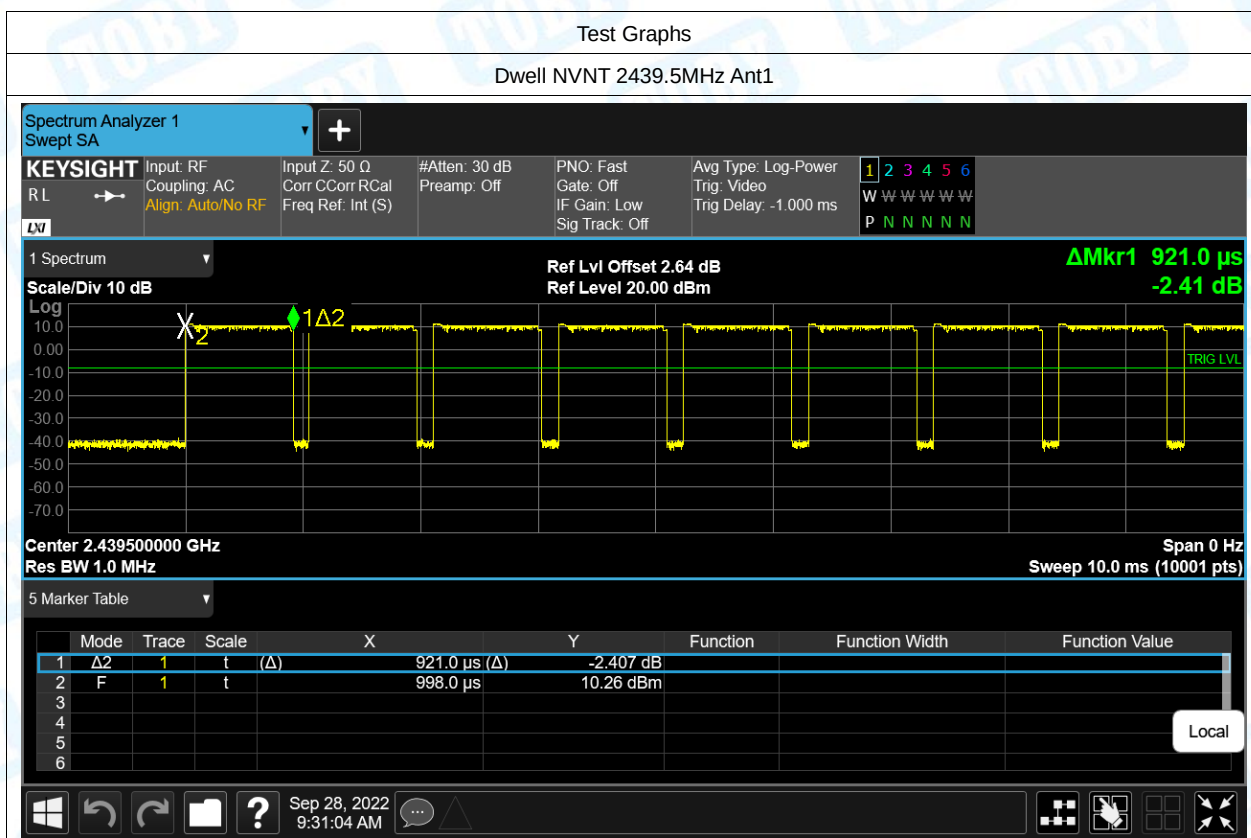
10. Number of Hopping Channel

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	GFSK	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	GFSK	2439.5	Ant1	0.921	294.72	31600	400	Pass



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