

RF Test Data for 2.4G

(Conducted Measurements)

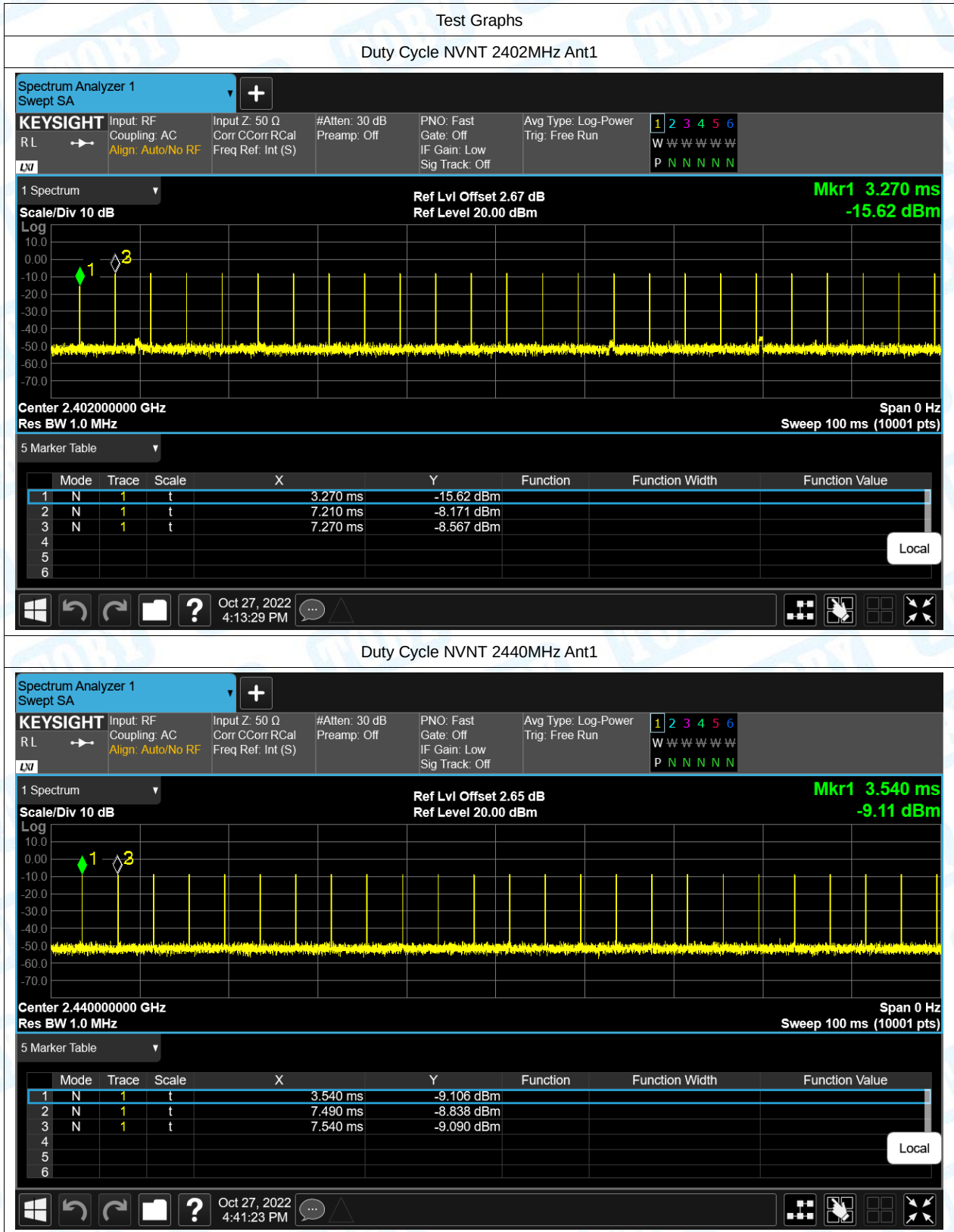
General Description of EUT	
Product Name:	2.4G Wireless mouse
Test Model:	QY-BC-300(H)
Sample ID:	202210_0041-01-02
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 3V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202210-0041-2	

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1. Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	GFSK	2402	Ant1	1.5	18.24	16.67
NVNT	GFSK	2440	Ant1	1.25	19.03	20
NVNT	GFSK	2480	Ant1	1.5	18.24	16.67



Duty Cycle NVNT 2440MHz Ant1

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: AC

Align: Auto/No RF

Input Z: 50 Ω

Corr C/Corr R/Cal

Freq Ref: Int (S)

#Atten: 30 dB

Preamp: Off

PNO: Fast

Gate: Off

IF Gain: Low

Sig Track: Off

Avg Type: Log-Power

Trig: Free Run

1 2 3 4 5 6

W W W W W W

P N N N N N

1 Spectrum

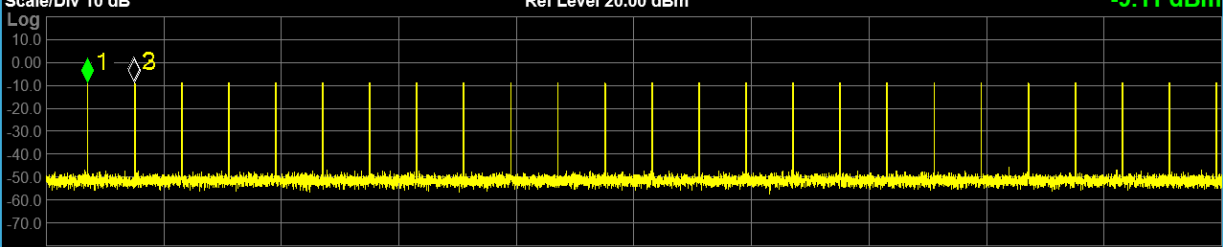
Scale/Div 10 dB

Ref Lvl Offset 2.65 dB

Ref Level 20.00 dBm

Mkr1 3.540 ms

-9.11 dBm



Center 2.440000000 GHz

Res BW 1.0 MHz

Span 0 Hz

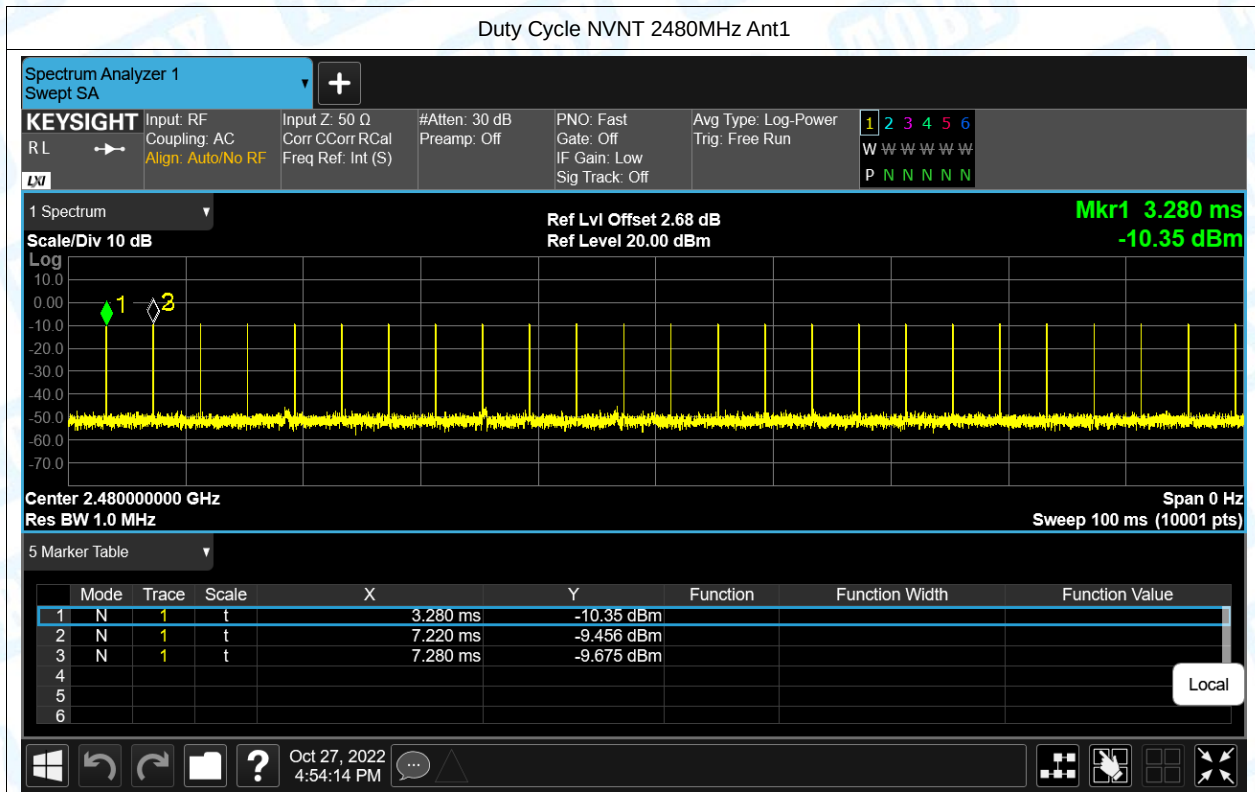
Sweep 100 ms (10001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	t	3.540 ms	-9.106 dBm			
2	N	1	t	7.490 ms	-8.838 dBm			
3	N	1	t	7.540 ms	-9.090 dBm			
4								
5								
6								

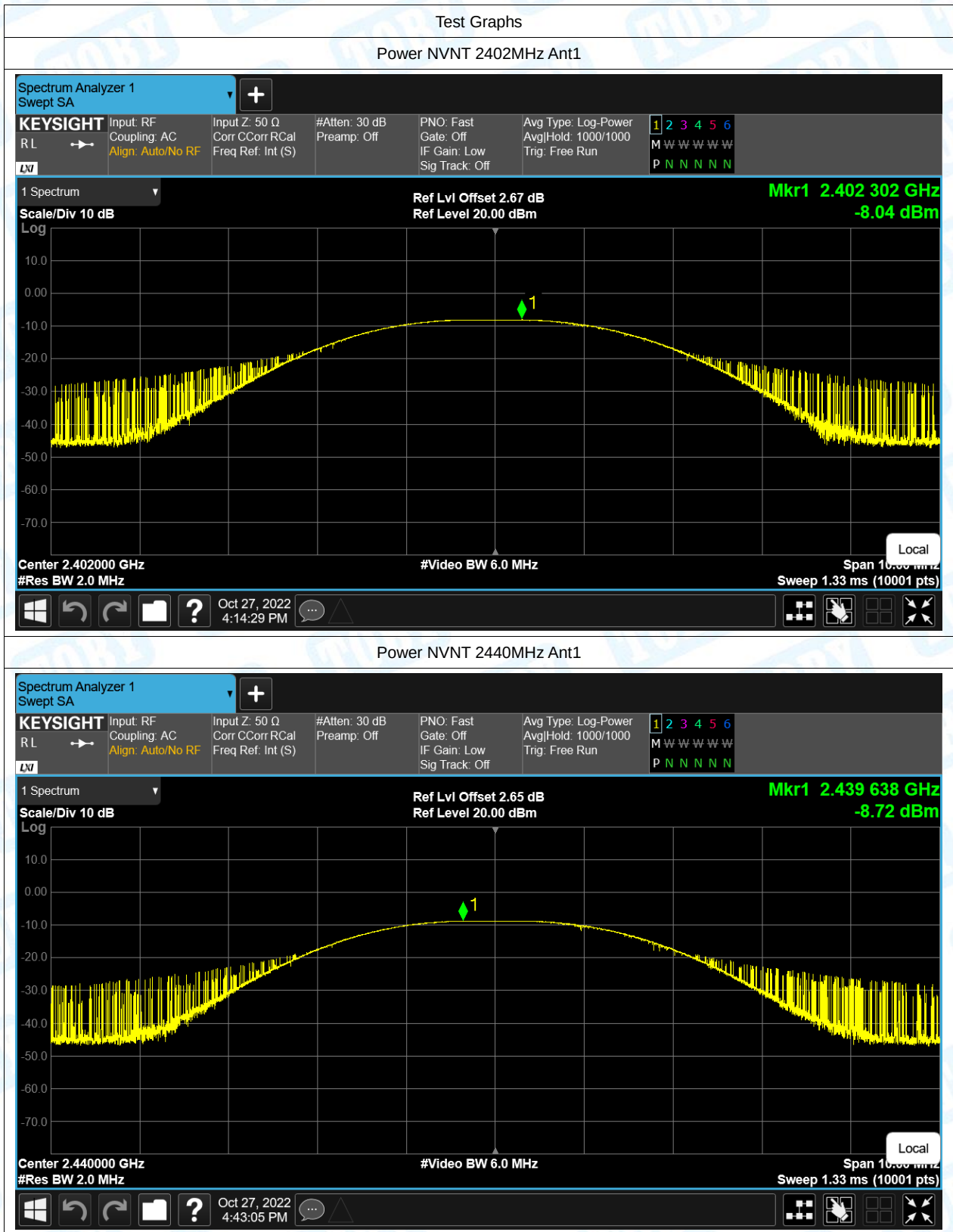
Local

Oct 27, 2022 4:41:23 PM



2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	GFSK	2402	Ant1	-8.042	21	Pass
NVNT	GFSK	2440	Ant1	-8.722	21	Pass
NVNT	GFSK	2480	Ant1	-9.3	21	Pass



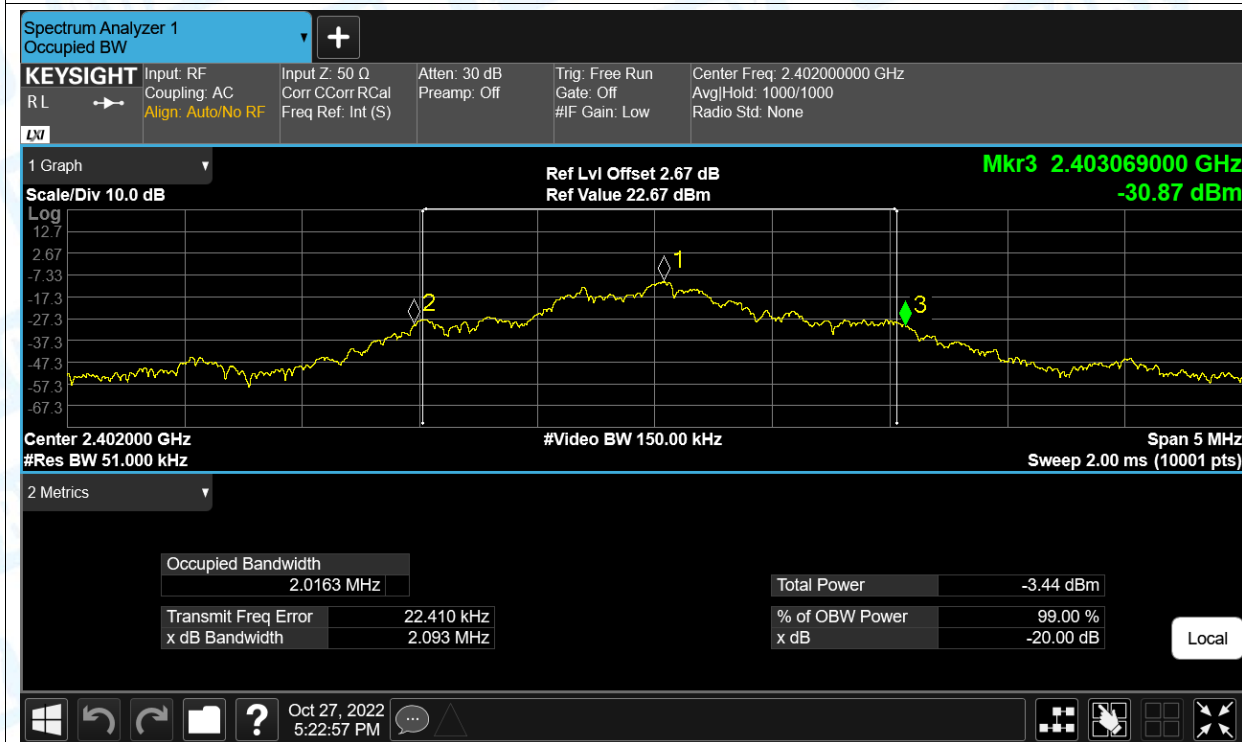


3. -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	GFSK	2402	Ant1	2.09	0	Pass
NVNT	GFSK	2440	Ant1	2.09	0	Pass
NVNT	GFSK	2480	Ant1	2.08	0	Pass

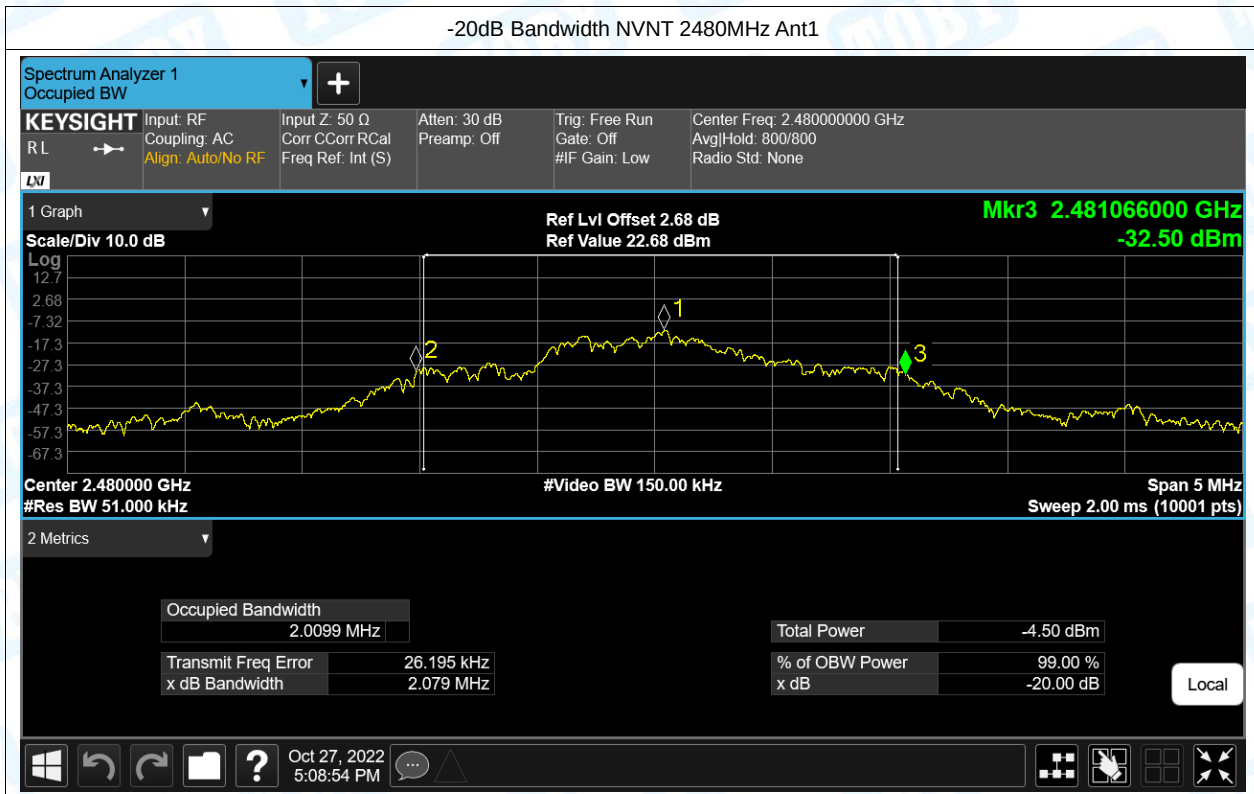
Test Graphs

-20dB Bandwidth NVNT 2402MHz Ant1



-20dB Bandwidth NVNT 2440MHz Ant1





4. Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	GFSK	2402	Ant1	1.989
NVNT	GFSK	2440	Ant1	2.003
NVNT	GFSK	2480	Ant1	2.055

Test Graphs

OBW NVNT 2402MHz Ant1



OBW NVNT 2440MHz Ant1

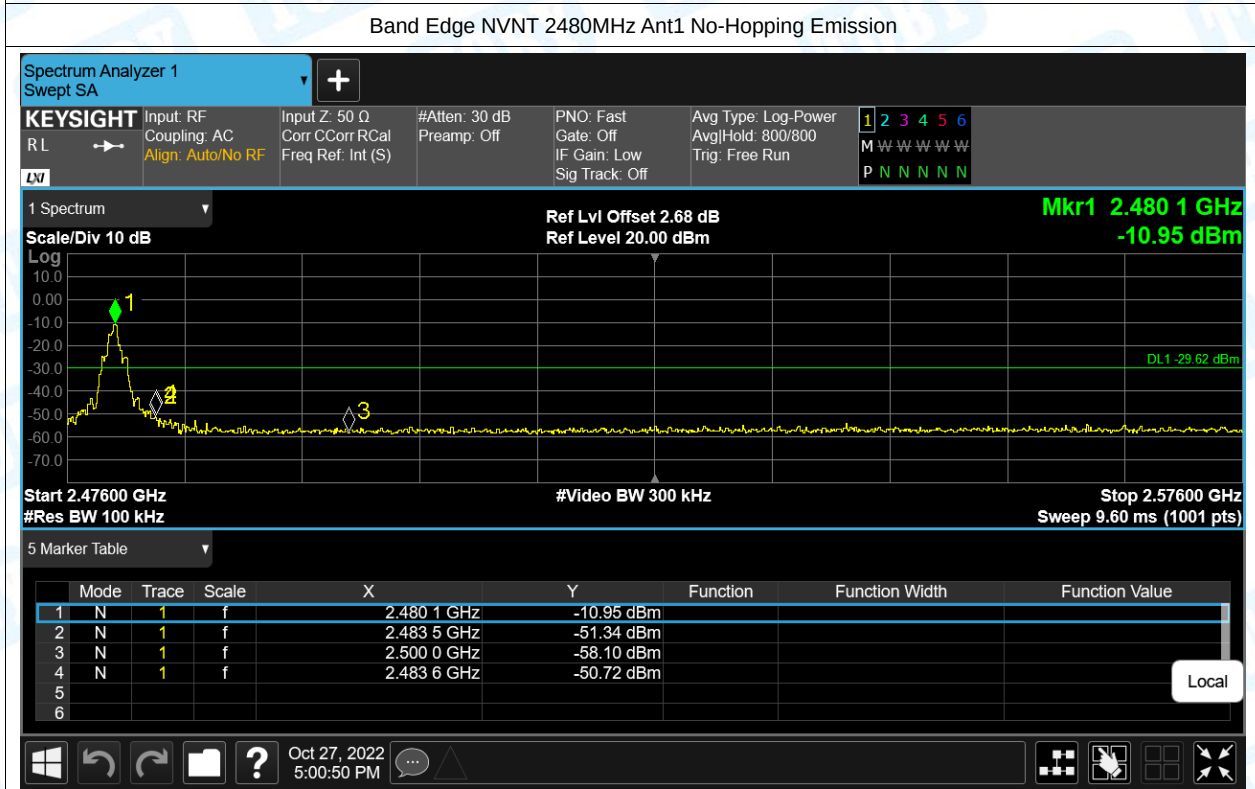
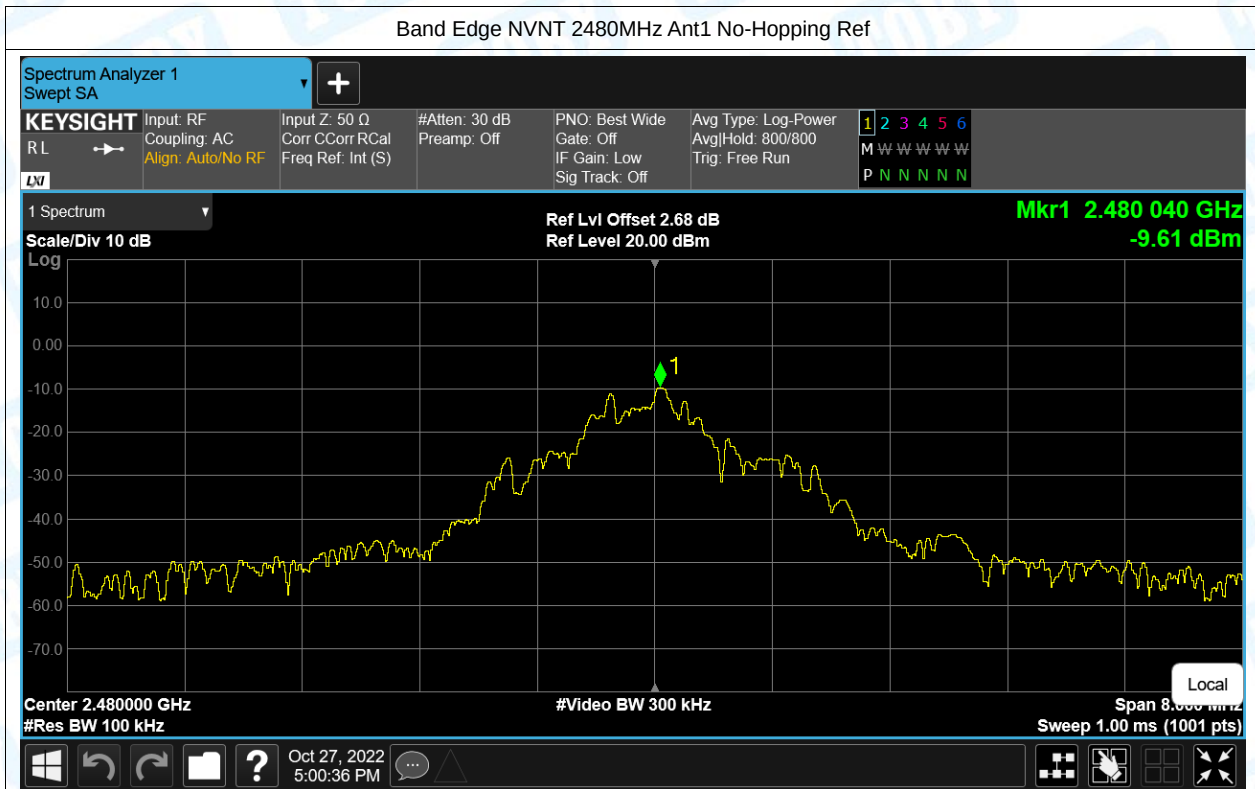




5. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	GFSK	2402	Ant1	No-Hopping	-46.95	-20	Pass
NVNT	GFSK	2480	Ant1	No-Hopping	-41.11	-20	Pass

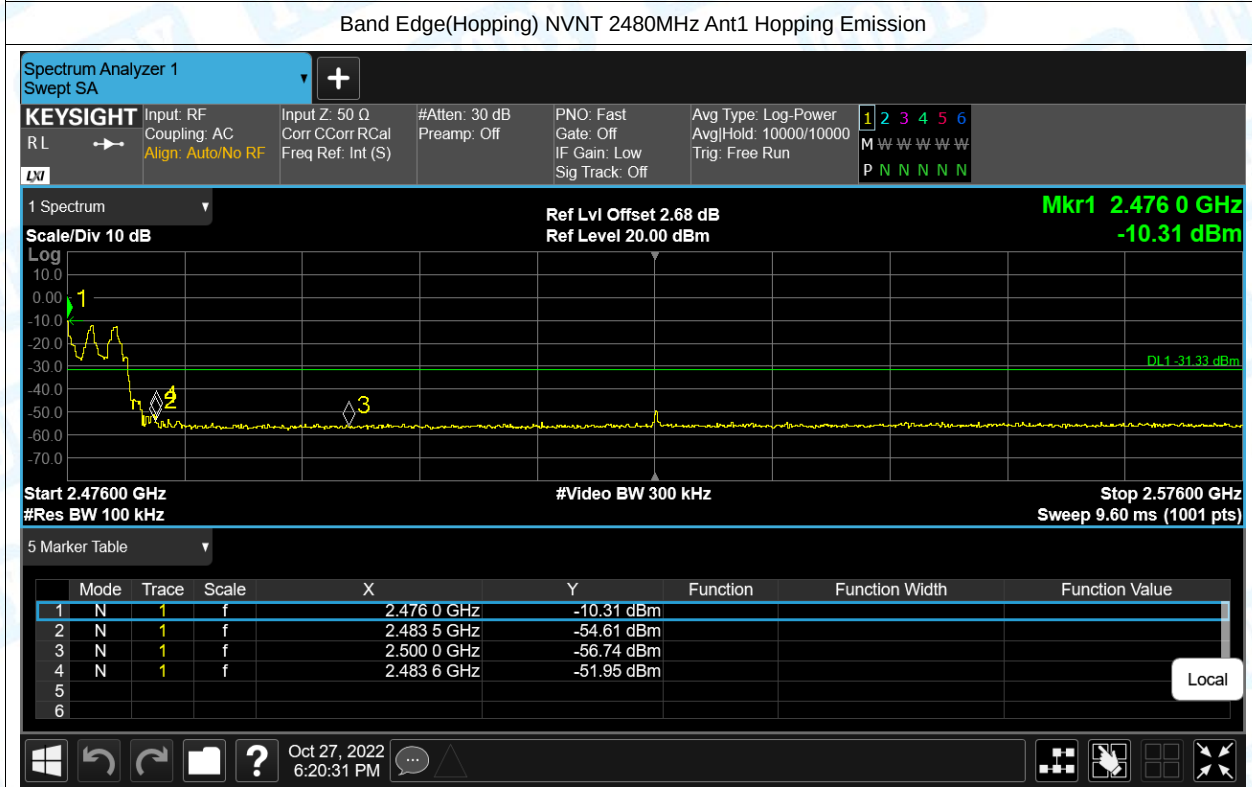
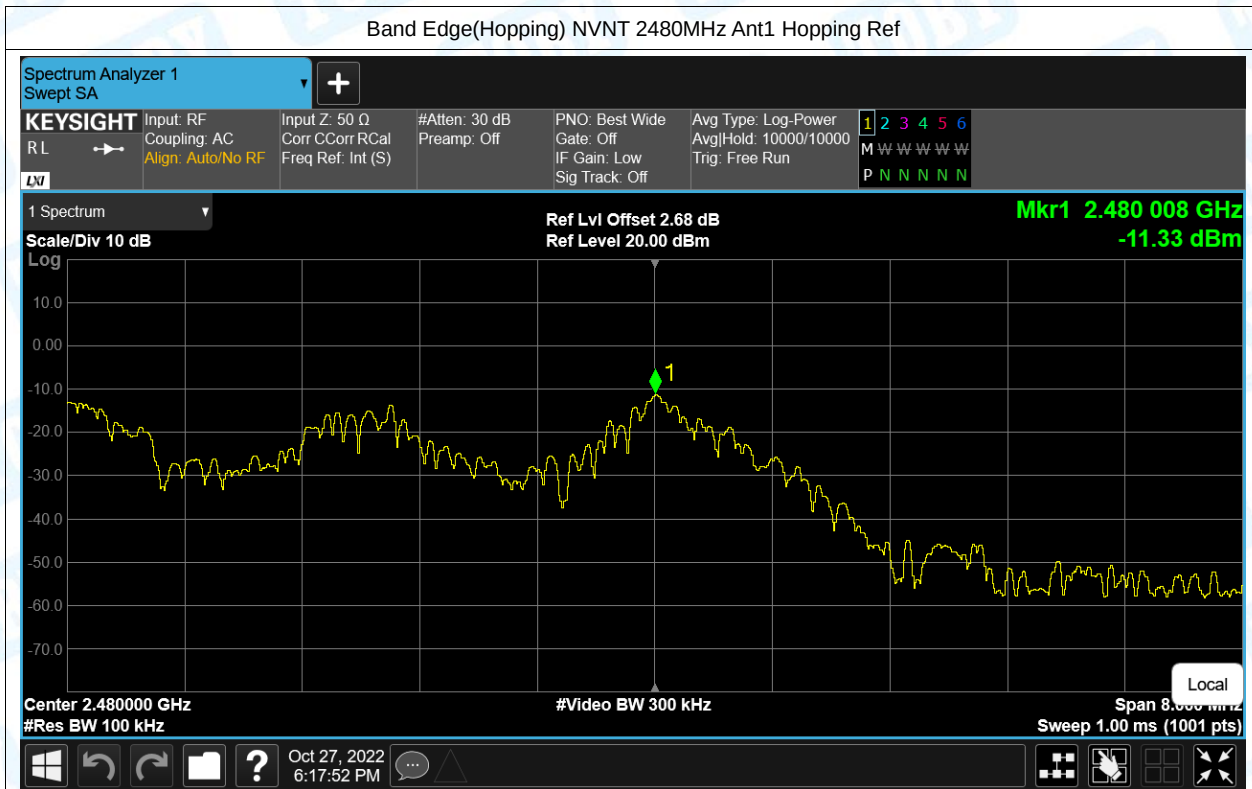




6. Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	GFSK	2402	Ant1	Hopping	-44.89	-20	Pass
NVNT	GFSK	2480	Ant1	Hopping	-40.62	-20	Pass

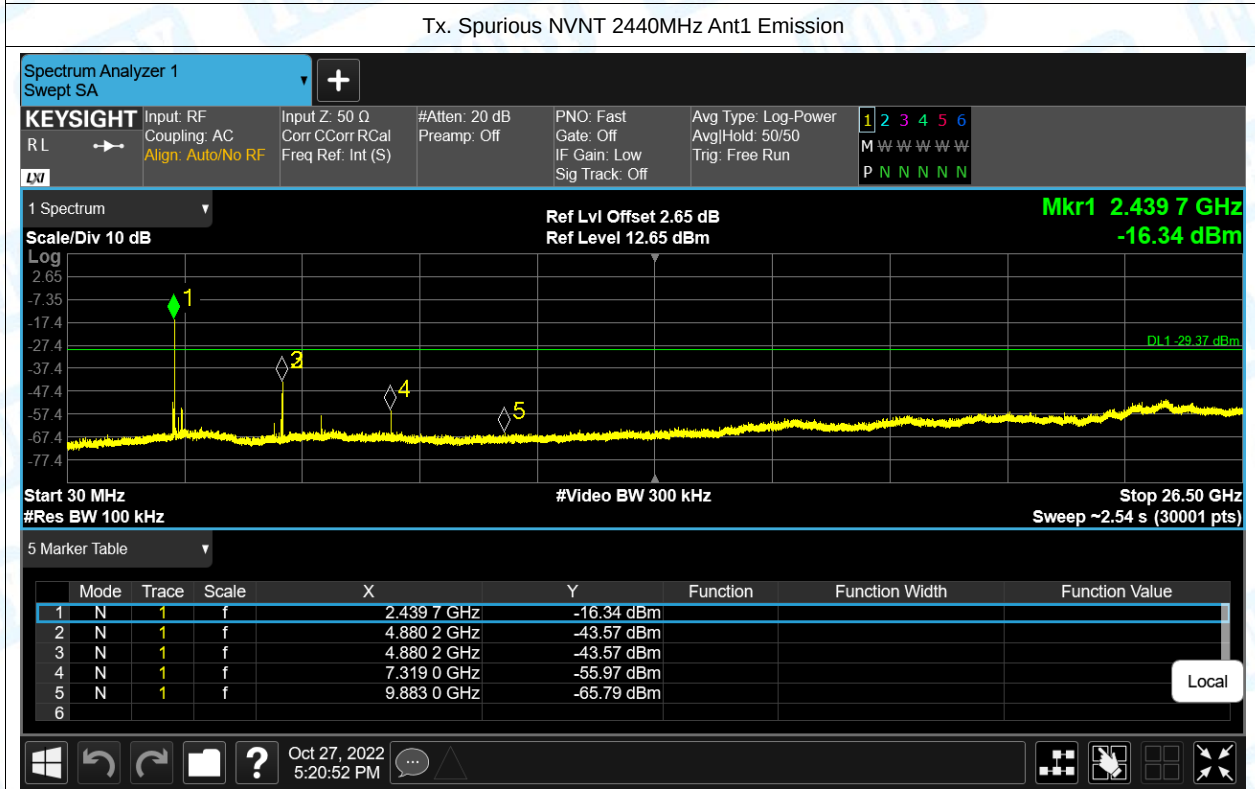
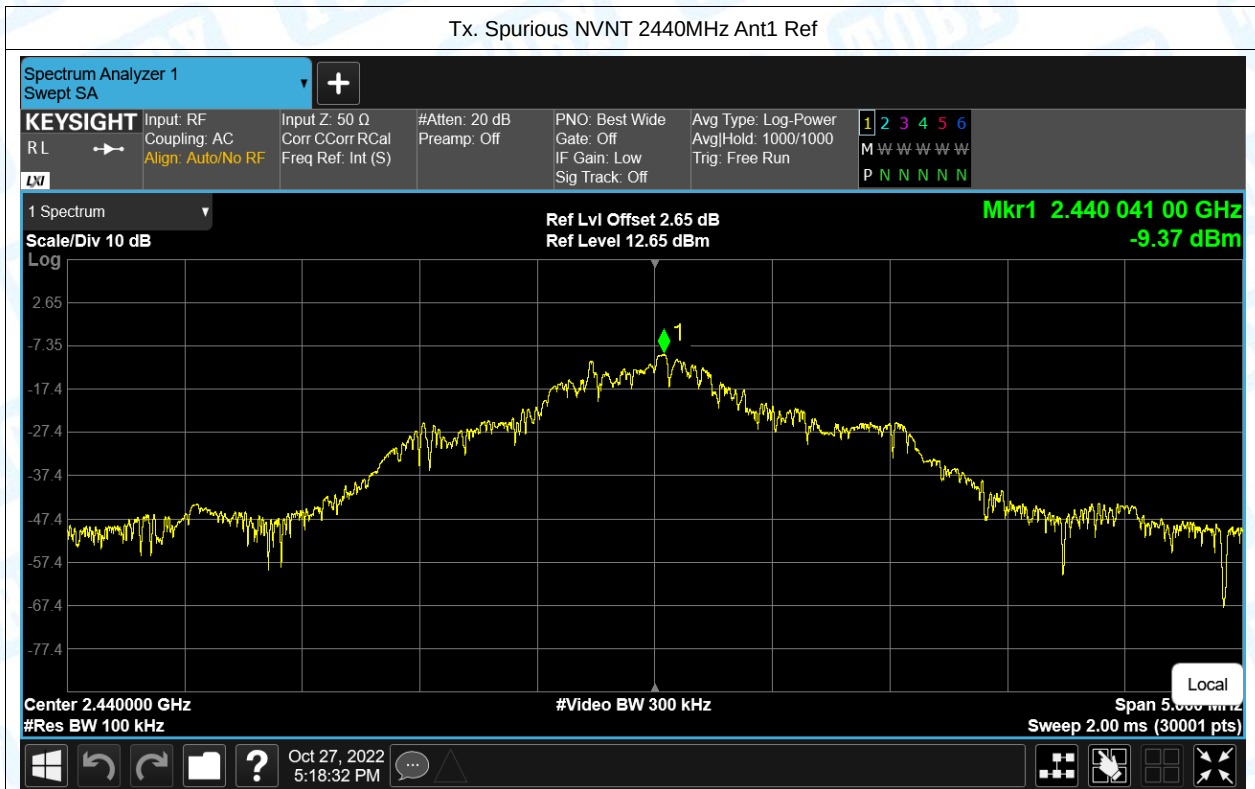


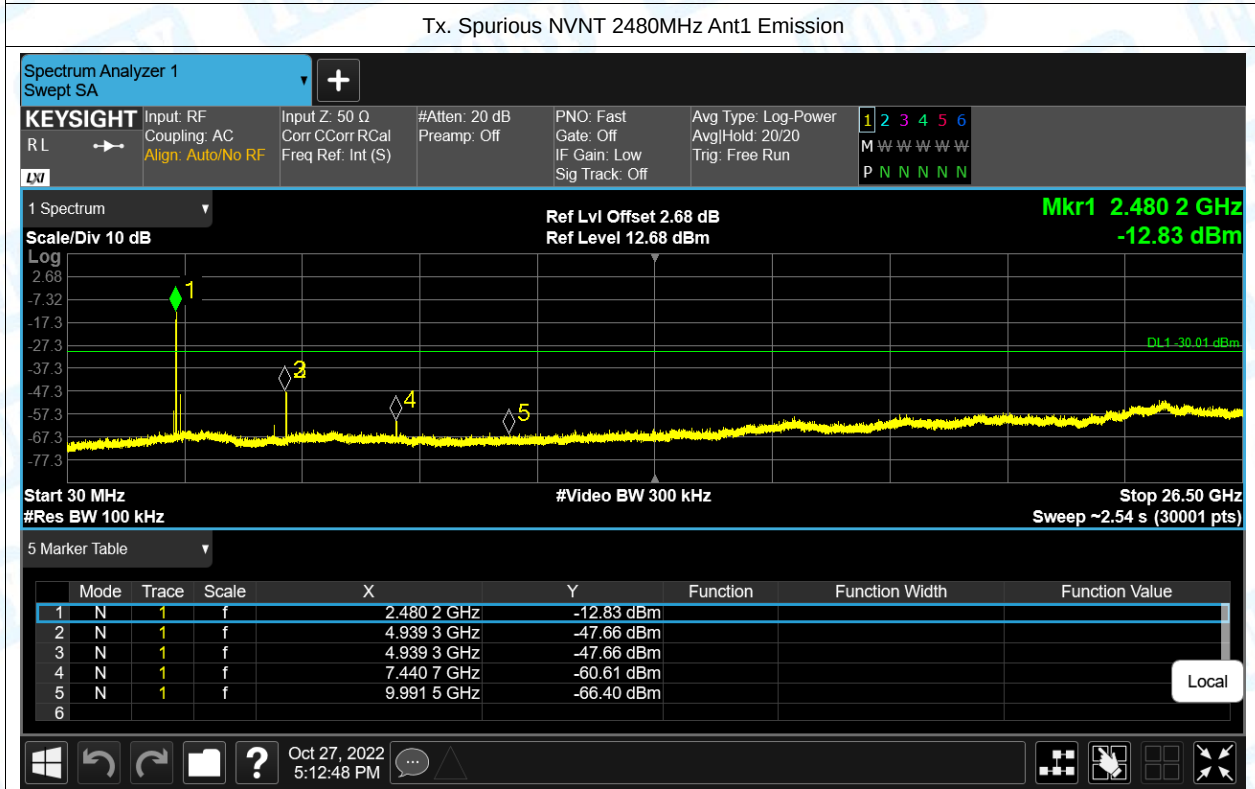
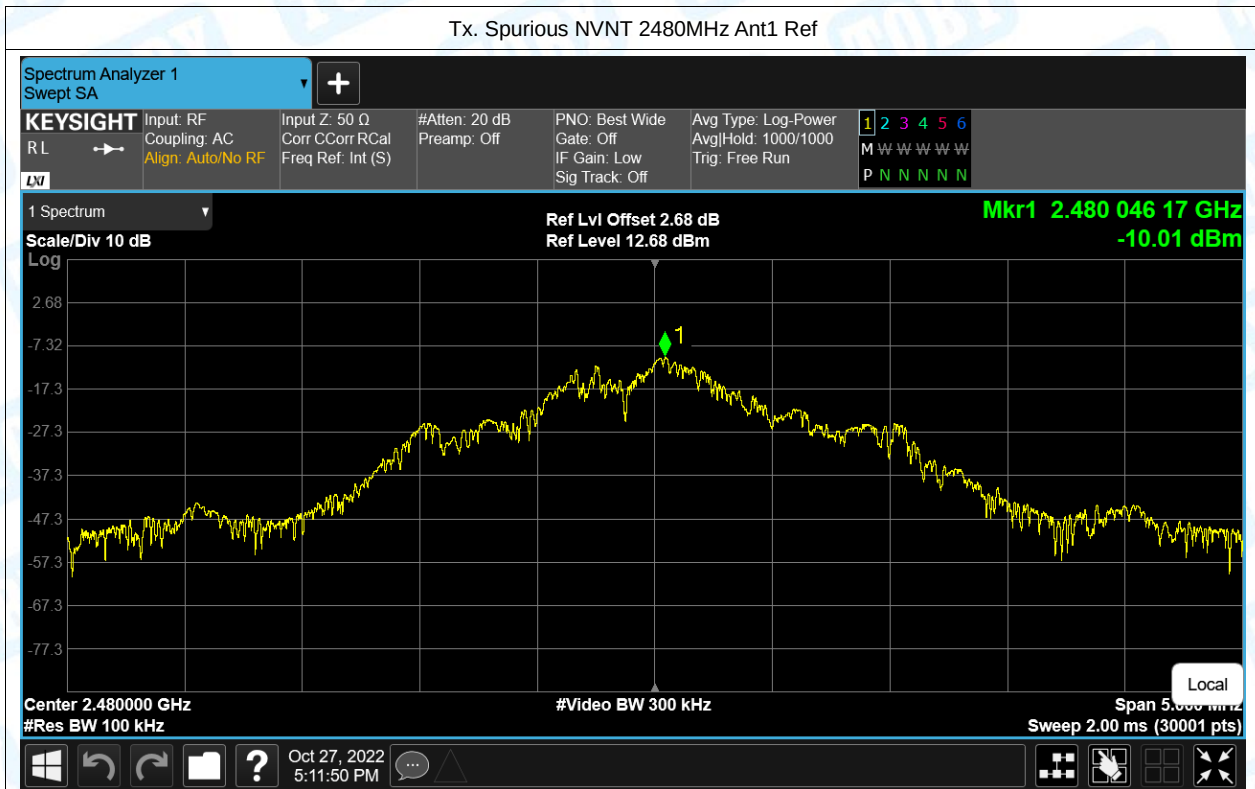


7. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	GFSK	2402	Ant1	-35.49	-20	Pass
NVNT	GFSK	2440	Ant1	-34.2	-20	Pass
NVNT	GFSK	2480	Ant1	-37.65	-20	Pass

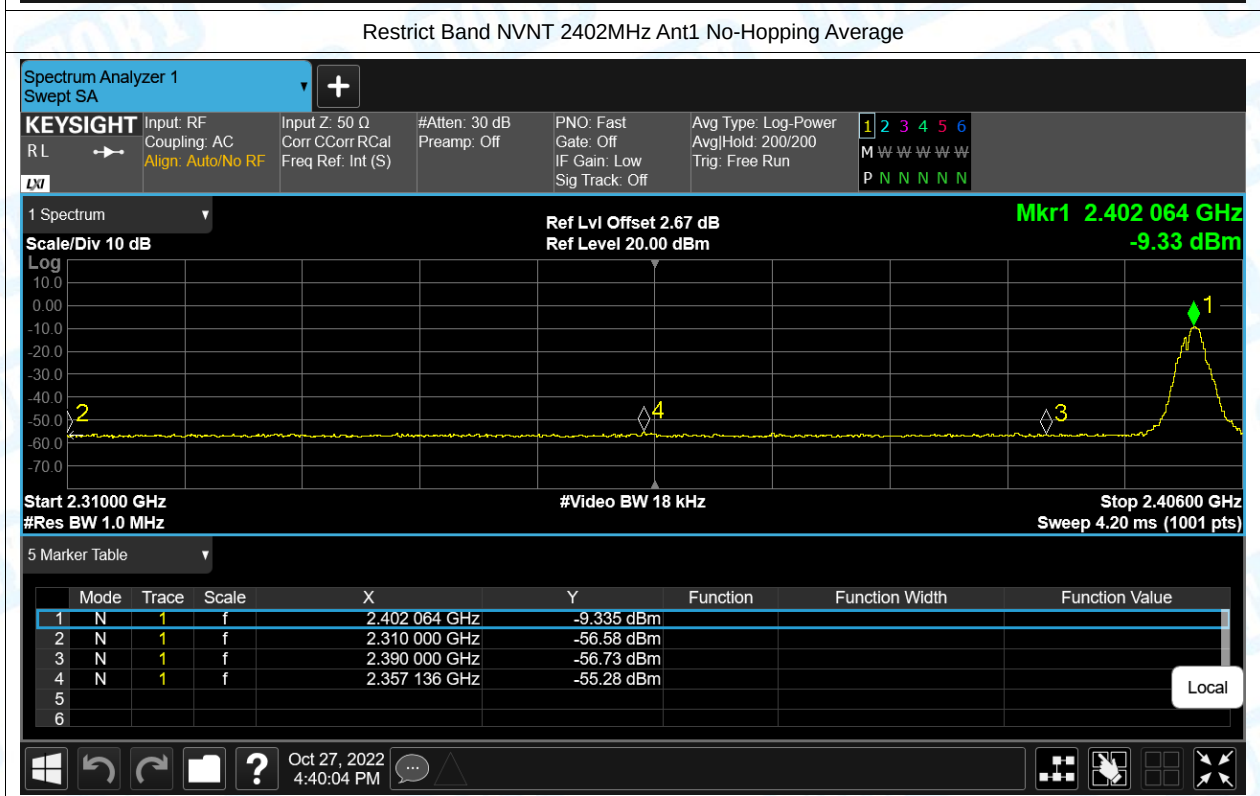
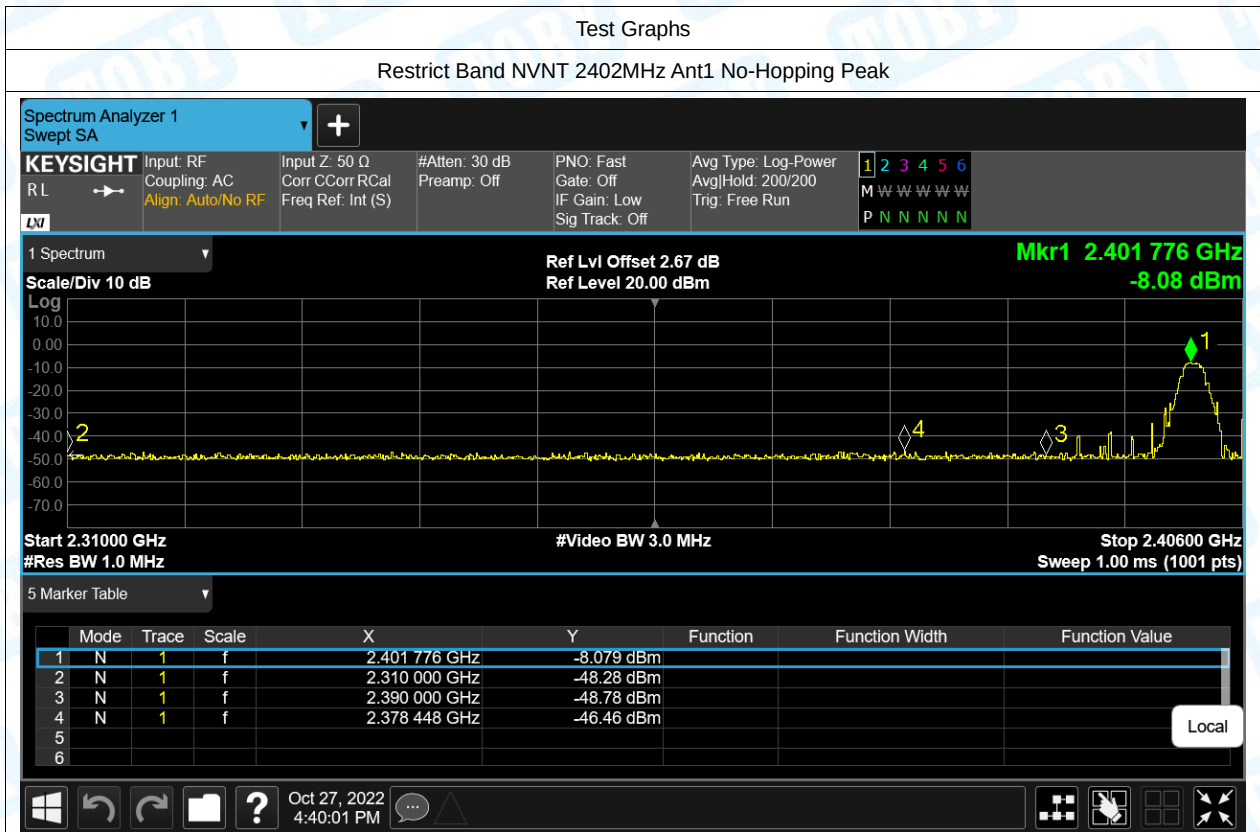




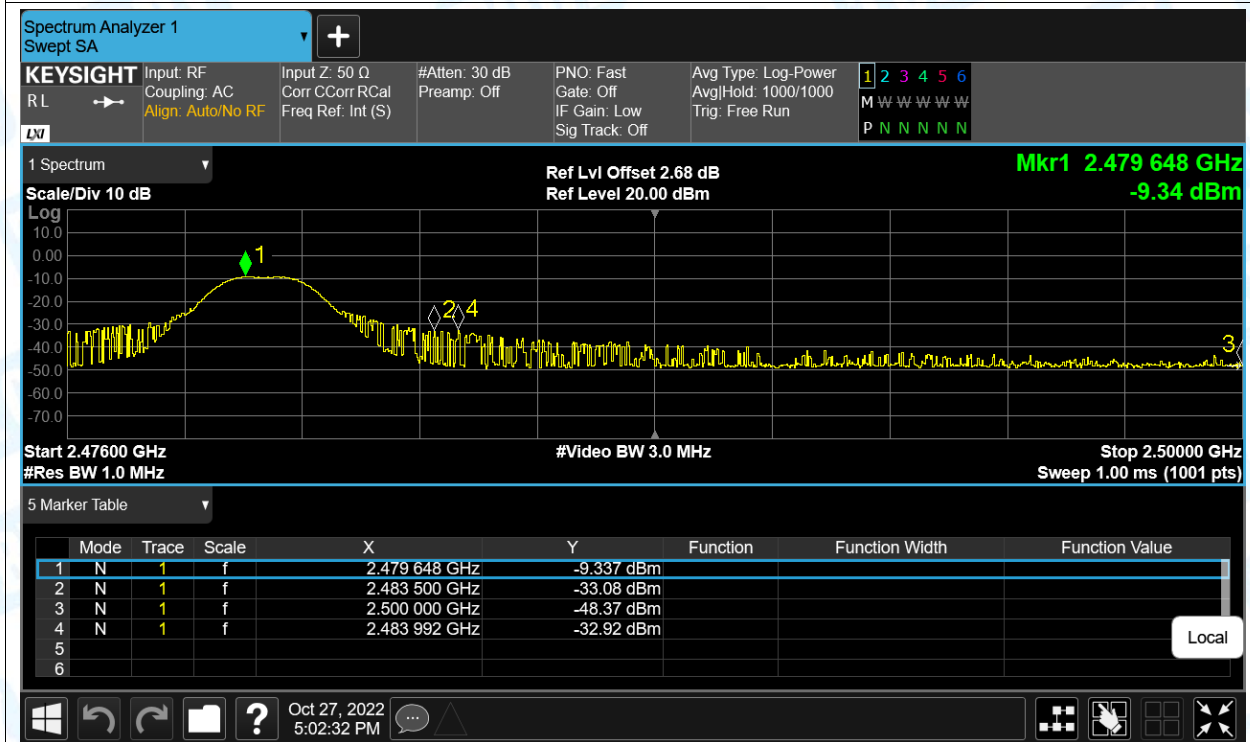


8. Restrict Band

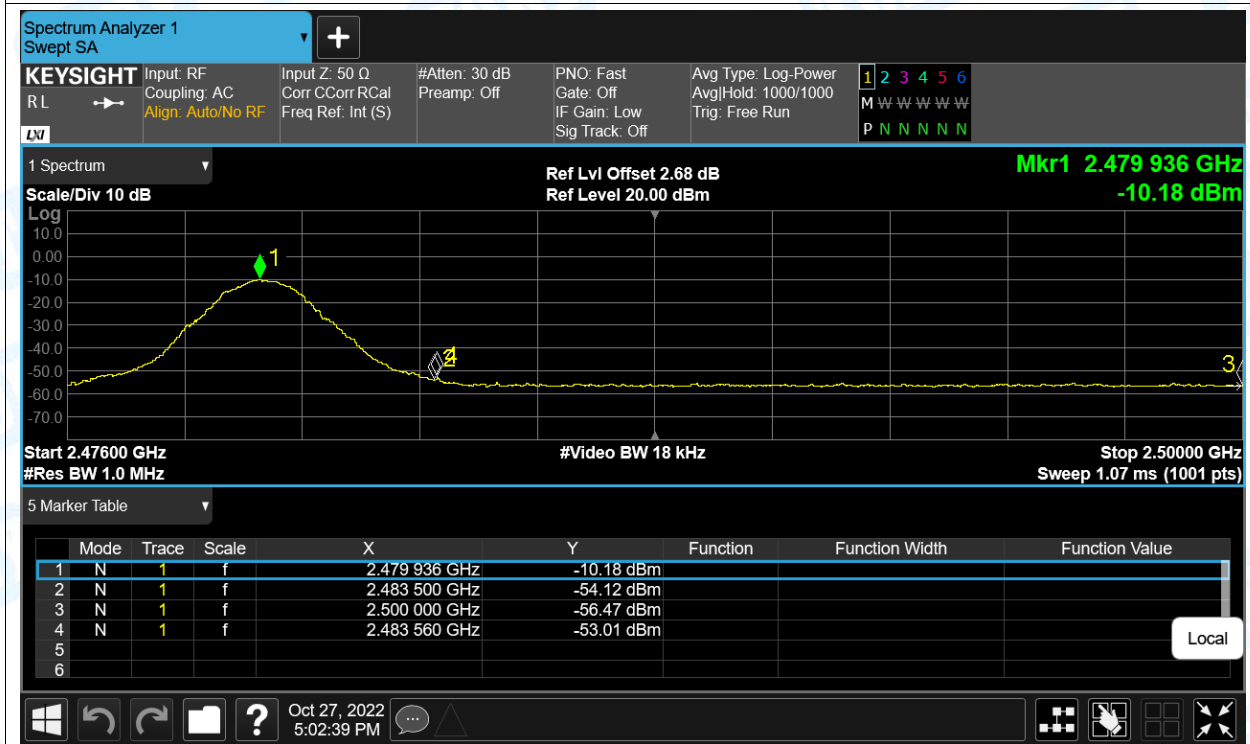
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	GFSK	2402	Ant1	No-Hopping	2310	-48.28	2	48.98	Peak	74	Pass
NVNT	GFSK	2402	Ant1	No-Hopping	2310	-56.58	2	40.68	Average	54	Pass
NVNT	GFSK	2402	Ant1	No-Hopping	2378.448	-46.46	2	50.8	Peak	74	Pass
NVNT	GFSK	2402	Ant1	No-Hopping	2357.136	-55.28	2	41.98	Average	54	Pass
NVNT	GFSK	2402	Ant1	No-Hopping	2390	-49	2	48.26	Peak	74	Pass
NVNT	GFSK	2402	Ant1	No-Hopping	2390	-56.72	2	40.54	Average	54	Pass
NVNT	GFSK	2480	Ant1	No-Hopping	2483.5	-33.08	2	64.18	Peak	74	Pass
NVNT	GFSK	2480	Ant1	No-Hopping	2483.5	-54.12	2	43.14	Average	54	Pass
NVNT	GFSK	2480	Ant1	No-Hopping	2483.992	-32.92	2	64.34	Peak	74	Pass
NVNT	GFSK	2480	Ant1	No-Hopping	2483.56	-53.01	2	44.25	Average	54	Pass
NVNT	GFSK	2480	Ant1	No-Hopping	2500	-48.37	2	48.89	Peak	74	Pass
NVNT	GFSK	2480	Ant1	No-Hopping	2500	-56.47	2	40.79	Average	54	Pass



Restrict Band NVNT 2480MHz Ant1 No-Hopping Peak

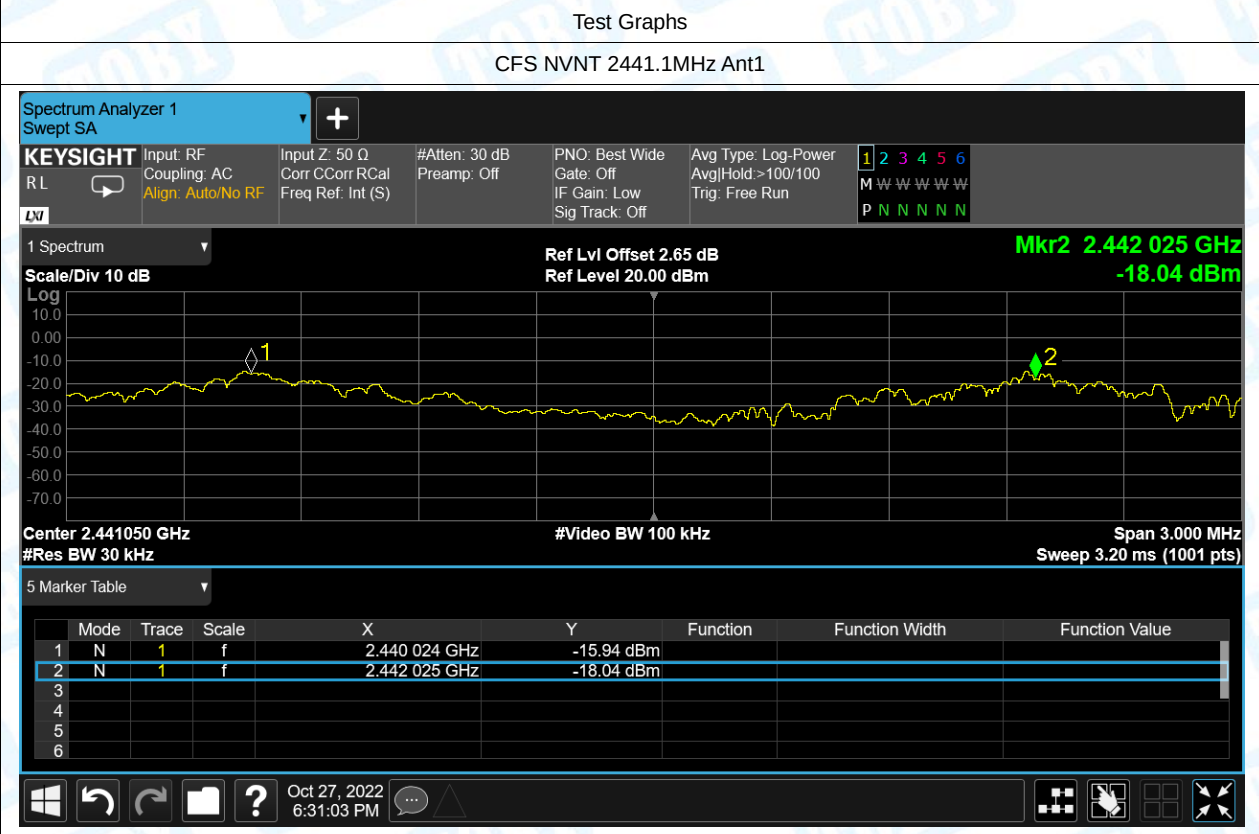


Restrict Band NVNT 2480MHz Ant1 No-Hopping Average



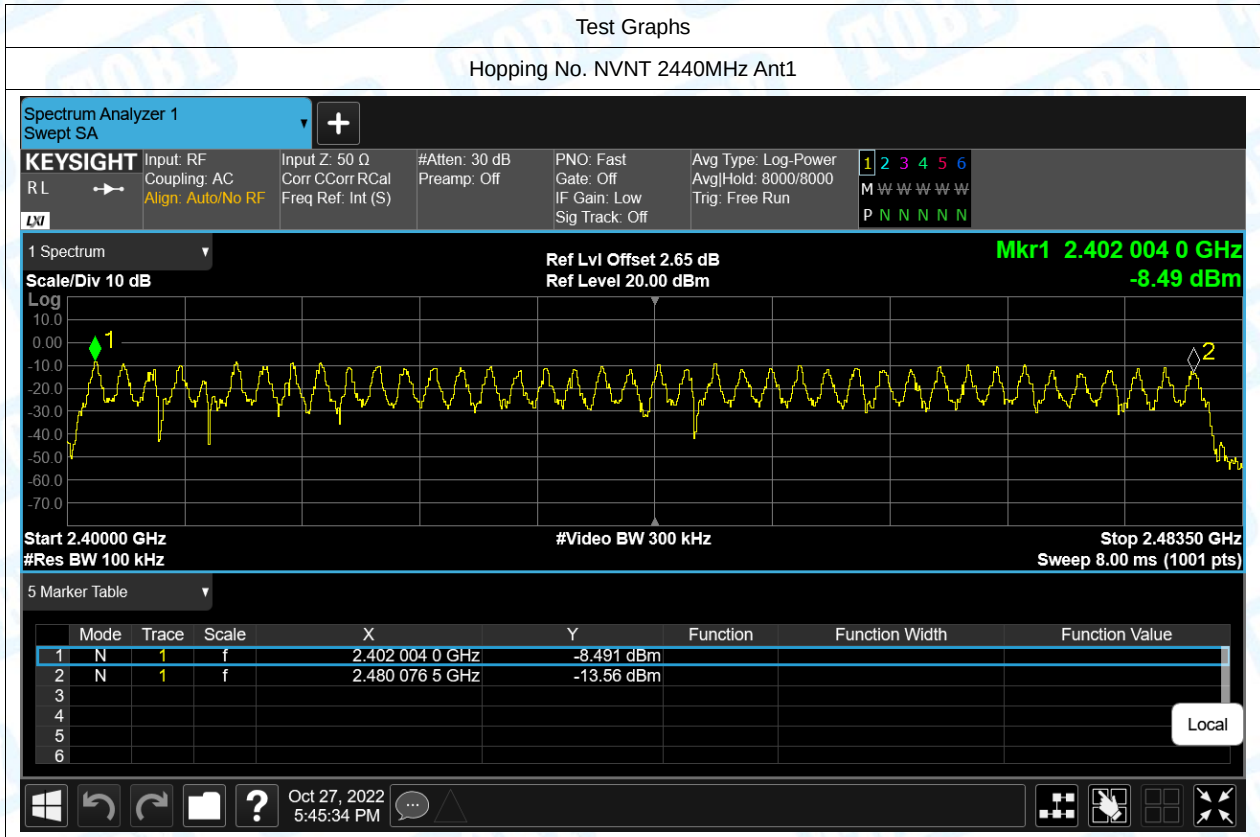
9. Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	GFSK	Ant1	2440.024	2442.025	2.001	0.025	Pass



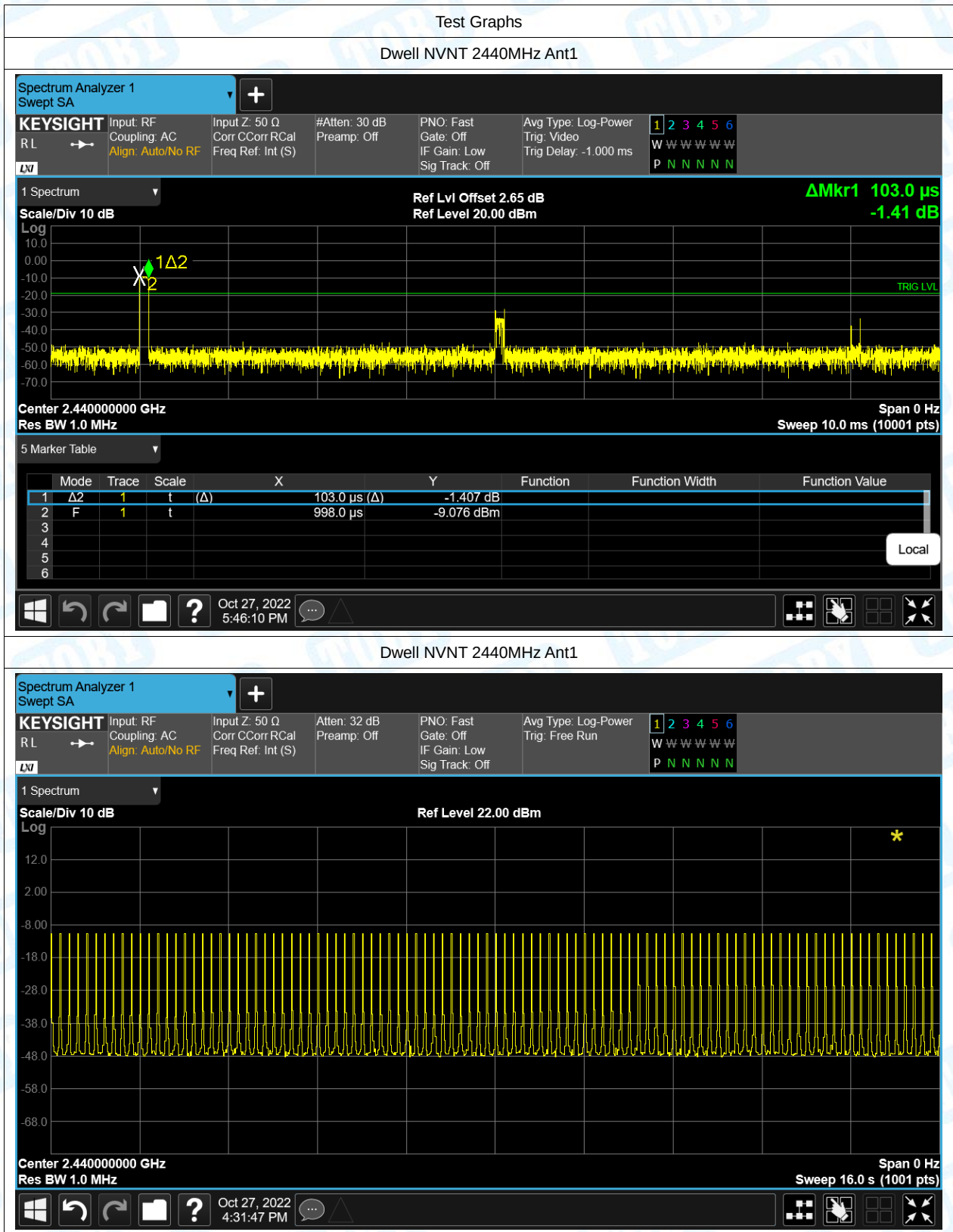
10. Number of Hopping Channel

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	2440	Ant1	0.103	32.96	16000	400	Pass



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