

RF Test Data for 2.4G (Conducted Measurements)

General Description of EUT	
Product Name:	Baby Monitor
Test Model:	JM55865T
Sample ID:	RW-C-202212-0205-1-2#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 5V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202212-0205-2 The report only show the worst case data.	

Contents

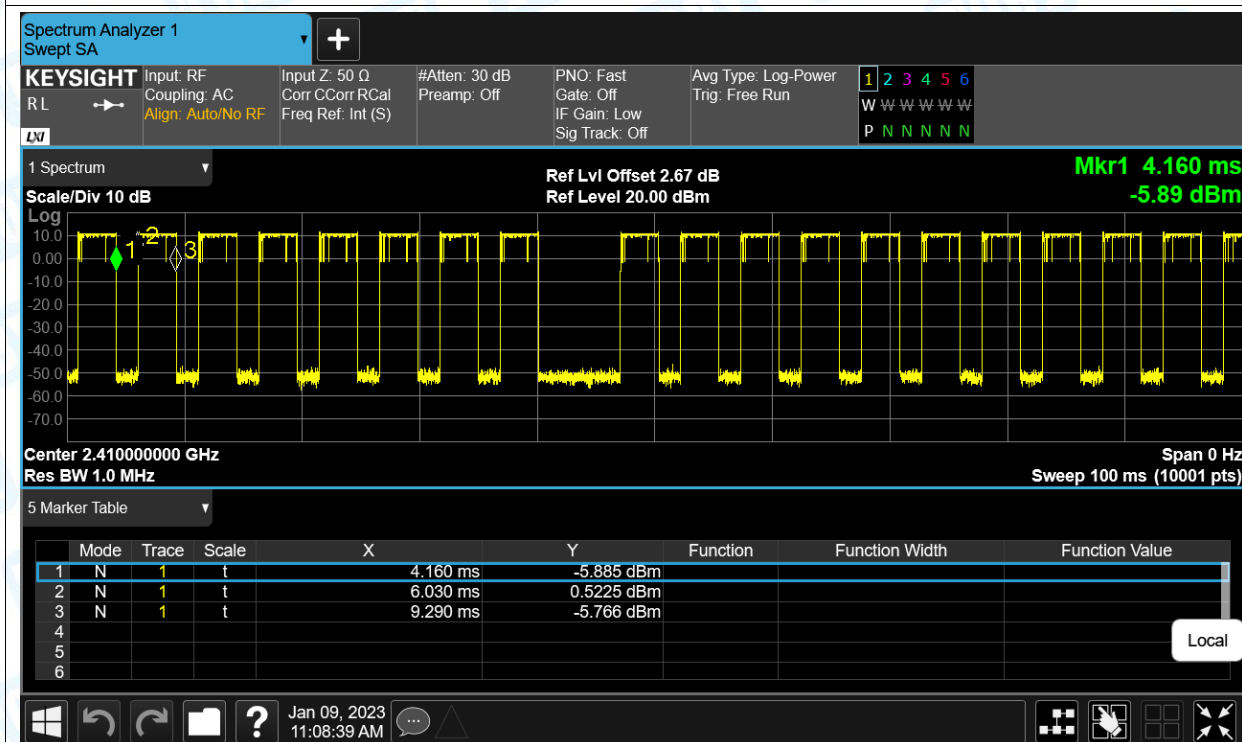
1. Duty Cycle.....	3
2. Maximum Conducted Output Power	6
3. -20dB Bandwidth	9
4. Occupied Channel Bandwidth	12
5. Band Edge	15
6. Band Edge(Hopping).....	18
7. Conducted RF Spurious Emission	21
8. Restrict Band	25
9. Carrier Frequencies Separation.....	28
10. Number of Hopping Channel	30
11. Dwell Time.....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

1. Duty Cycle

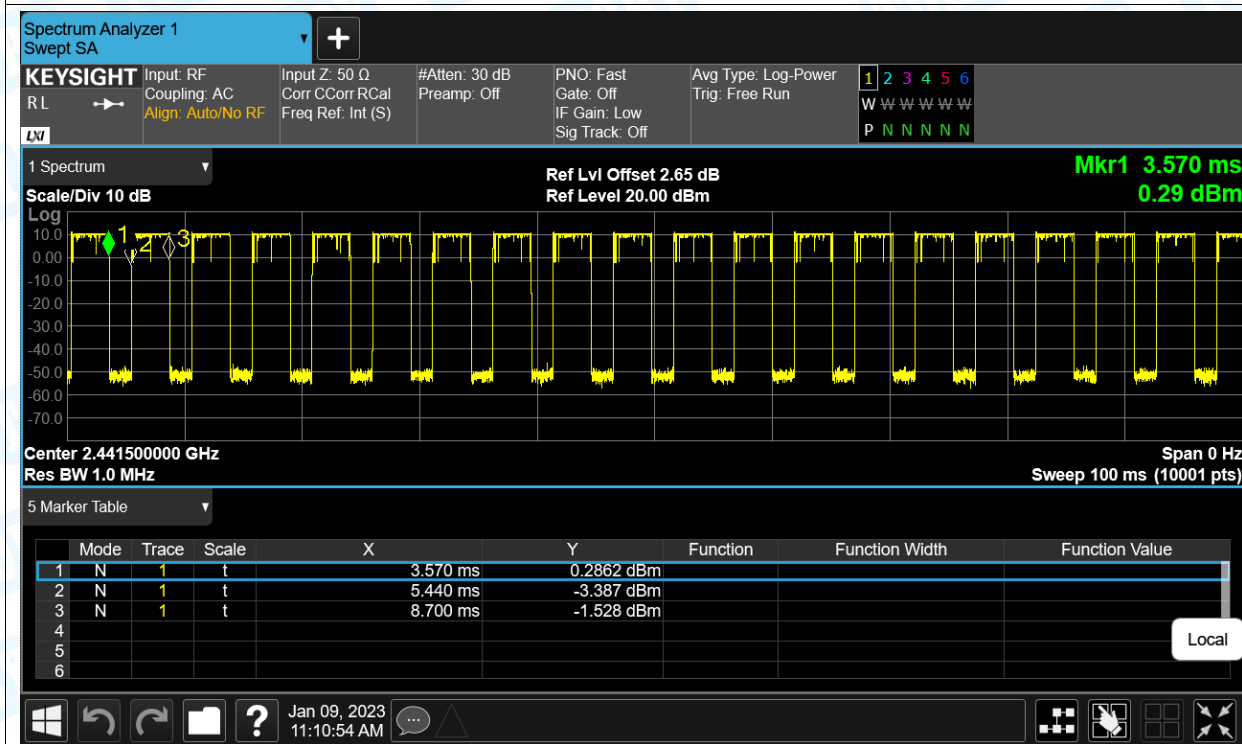
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	user	2410	Ant1	63.55	1.97	0.31
NVNT	user	2441.5	Ant1	63.55	1.97	0.31
NVNT	user	2473	Ant1	63.55	1.97	0.31

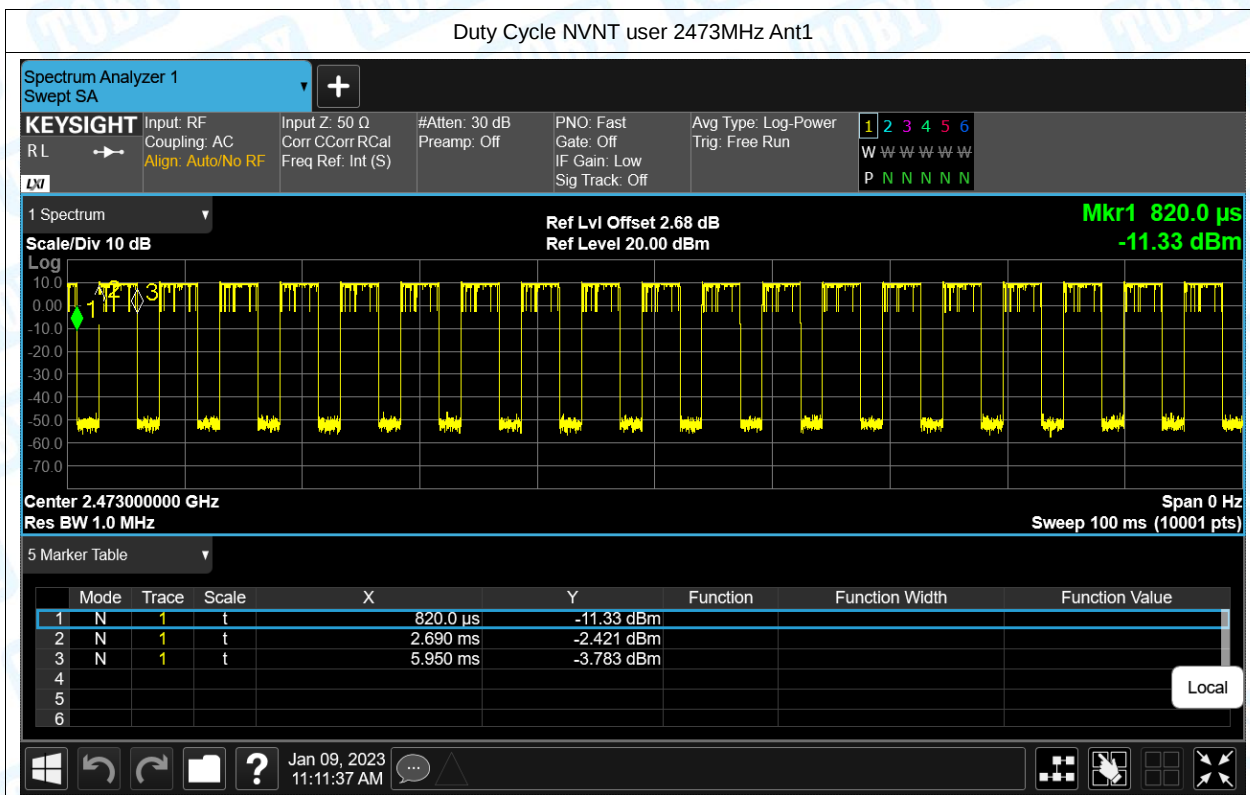
Test Graphs

Duty Cycle NVNT user 2410MHz Ant1



Duty Cycle NVNT user 2441.5MHz Ant1



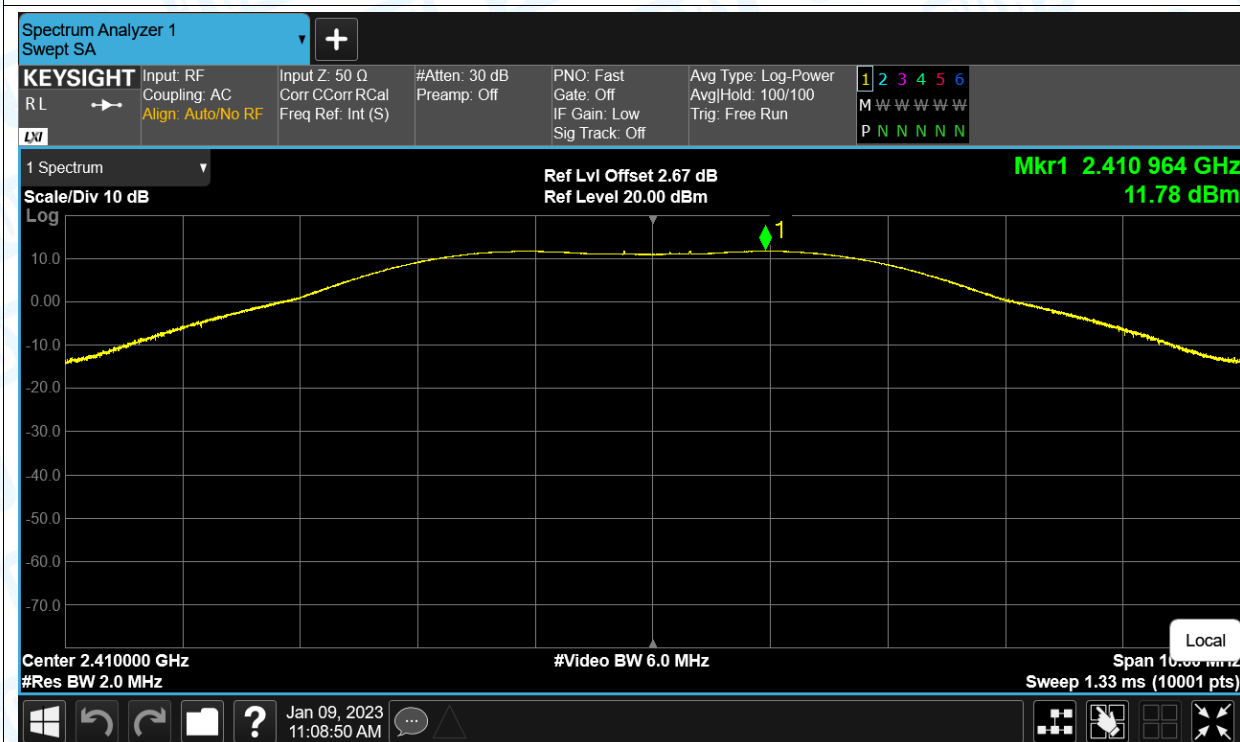


2. Maximum Conducted Output Power

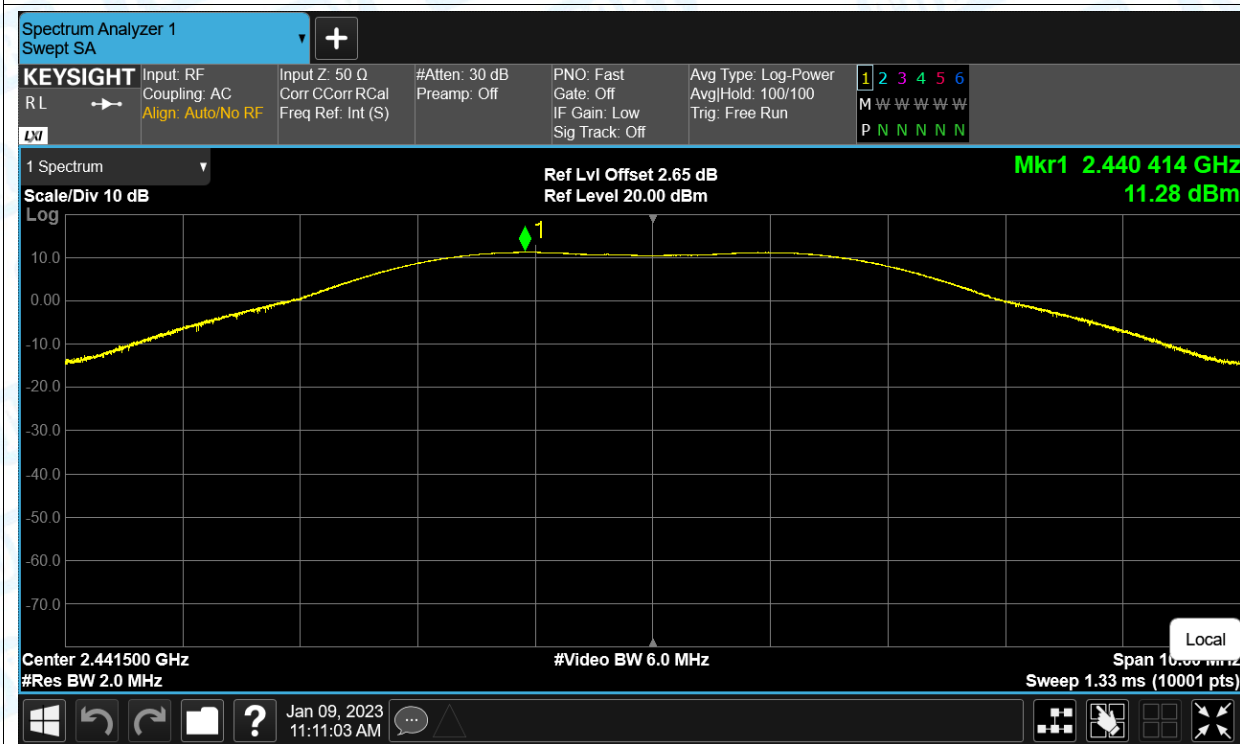
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	user	2410	Ant1	11.78	21	Pass
NVNT	user	2441.5	Ant1	11.28	21	Pass
NVNT	user	2473	Ant1	10.61	21	Pass

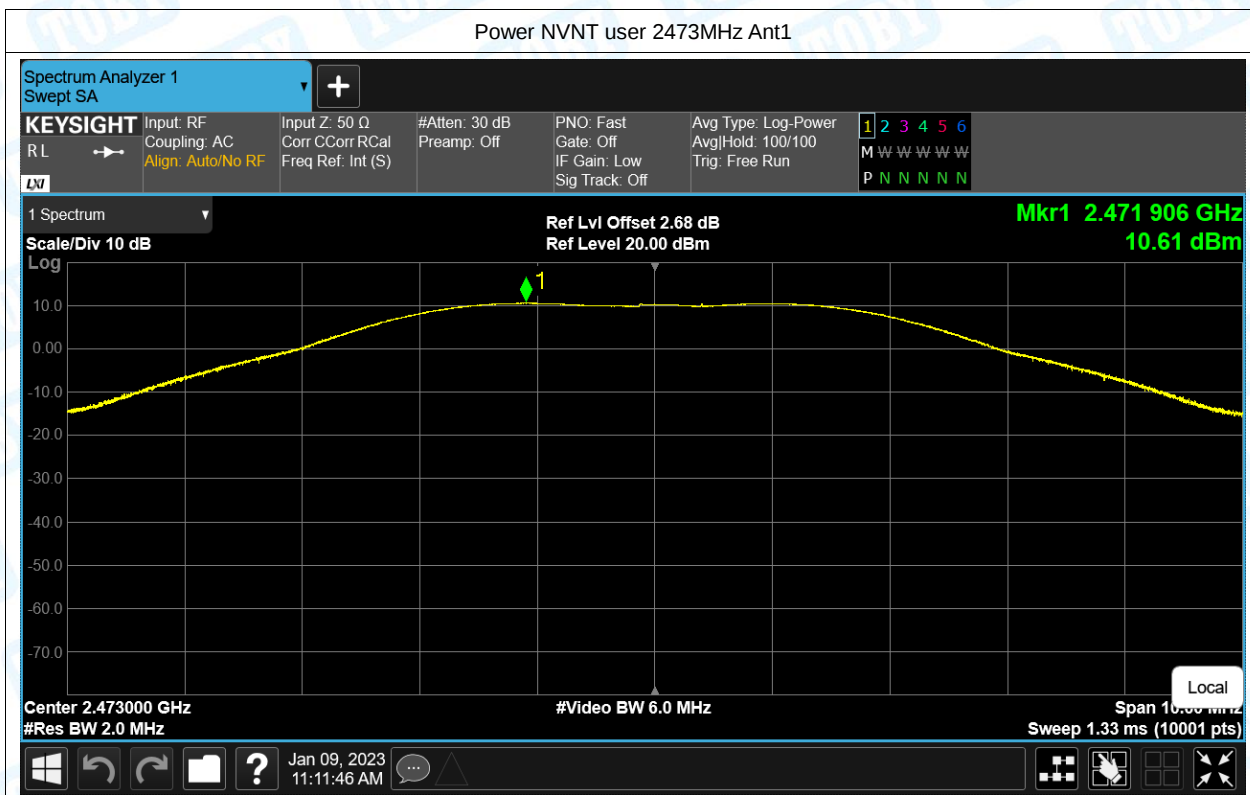
Test Graphs

Power NVNT user 2410MHz Ant1



Power NVNT user 2441.5MHz Ant1





3. -20dB Bandwidth

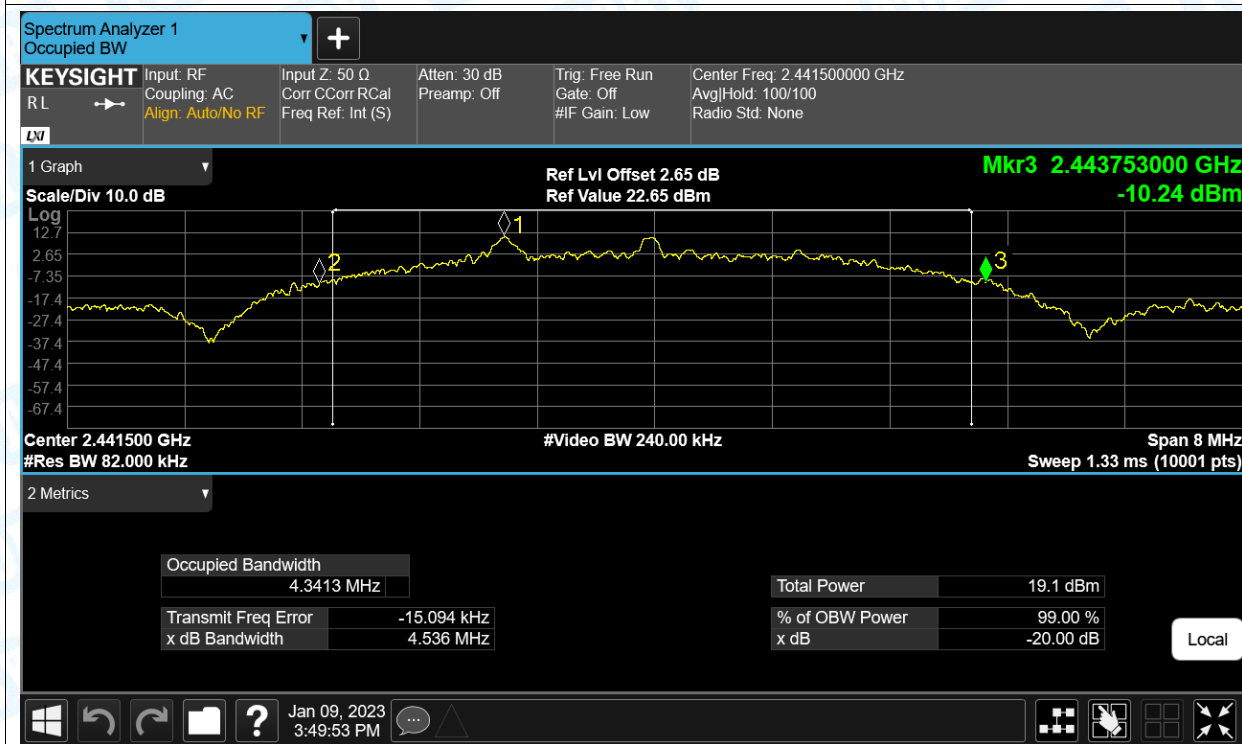
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	user	2410	Ant1	4.33	----	Pass
NVNT	user	2441.5	Ant1	4.54	----	Pass
NVNT	user	2473	Ant1	4.43	----	Pass

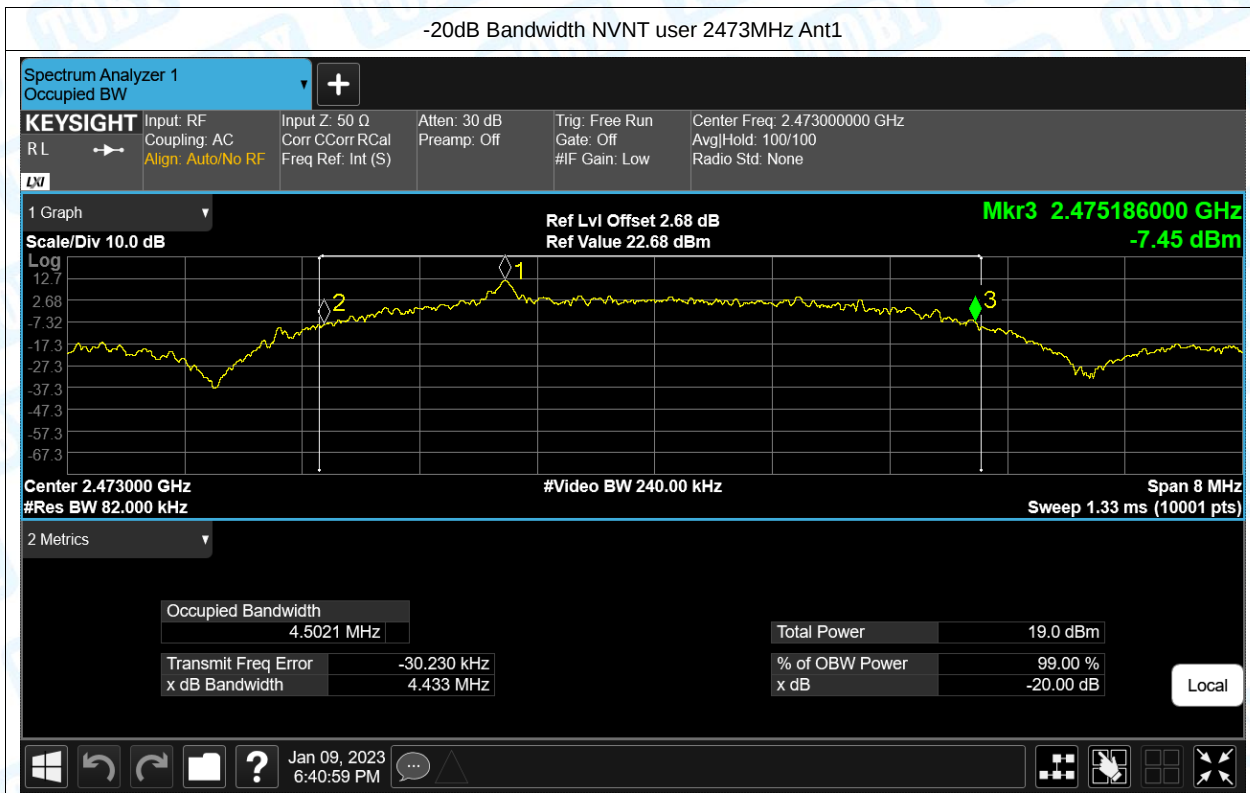
Test Graphs

-20dB Bandwidth NVNT user 2410MHz Ant1



-20dB Bandwidth NVNT user 2441.5MHz Ant1



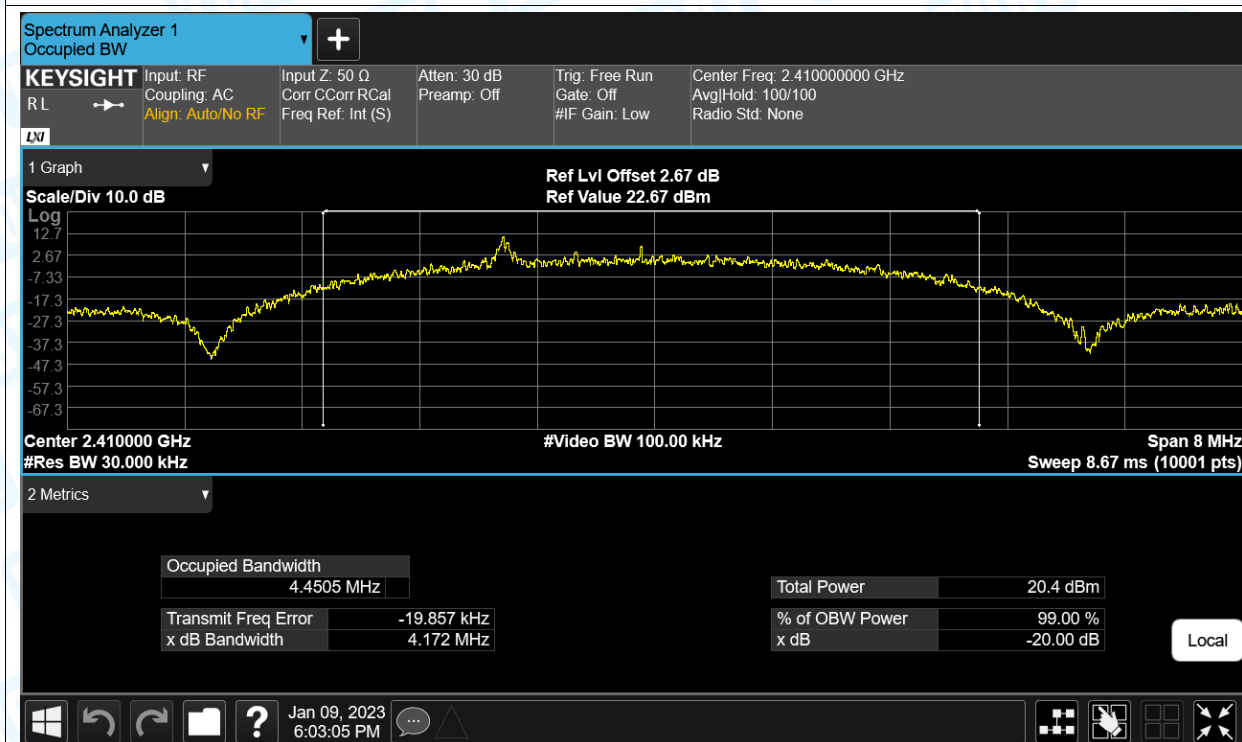


4. Occupied Channel Bandwidth

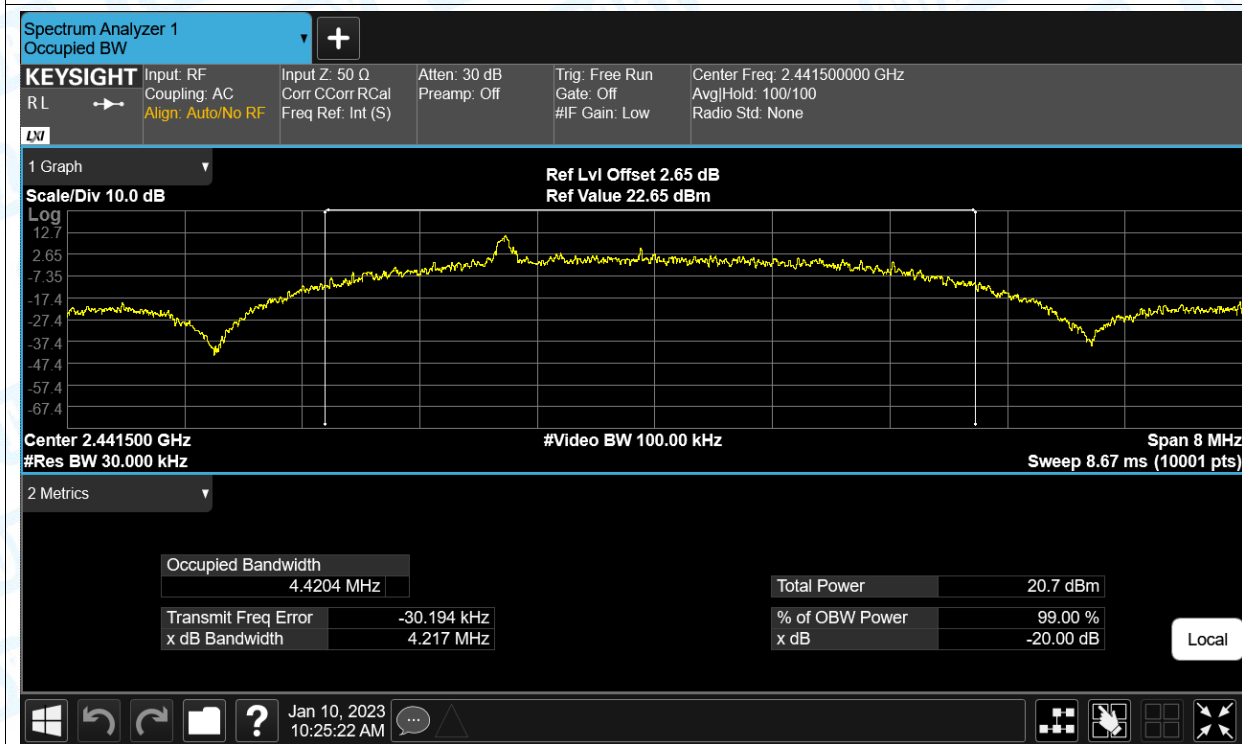
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	user	2410	Ant1	4.451
NVNT	user	2441.5	Ant1	4.42
NVNT	user	2473	Ant1	4.499

Test Graphs

OBW NVNT user 2410MHz Ant1



OBW NVNT user 2441.5MHz Ant1



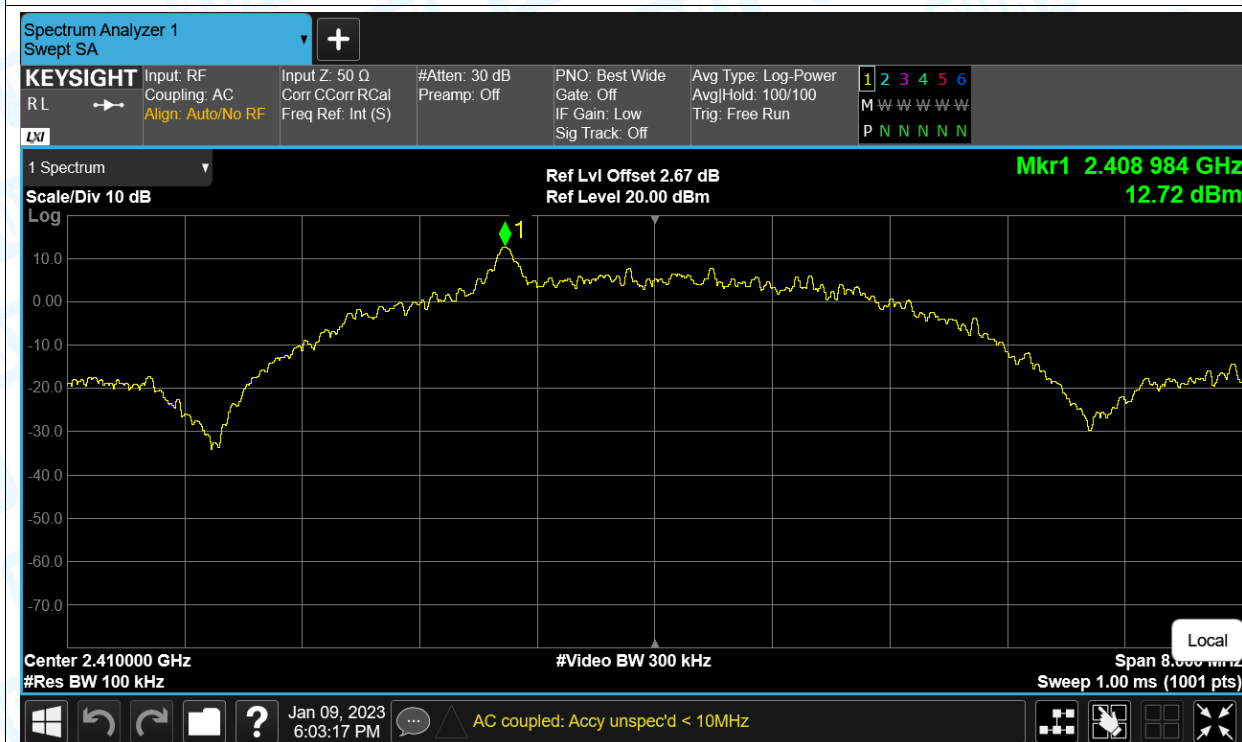


5. Band Edge

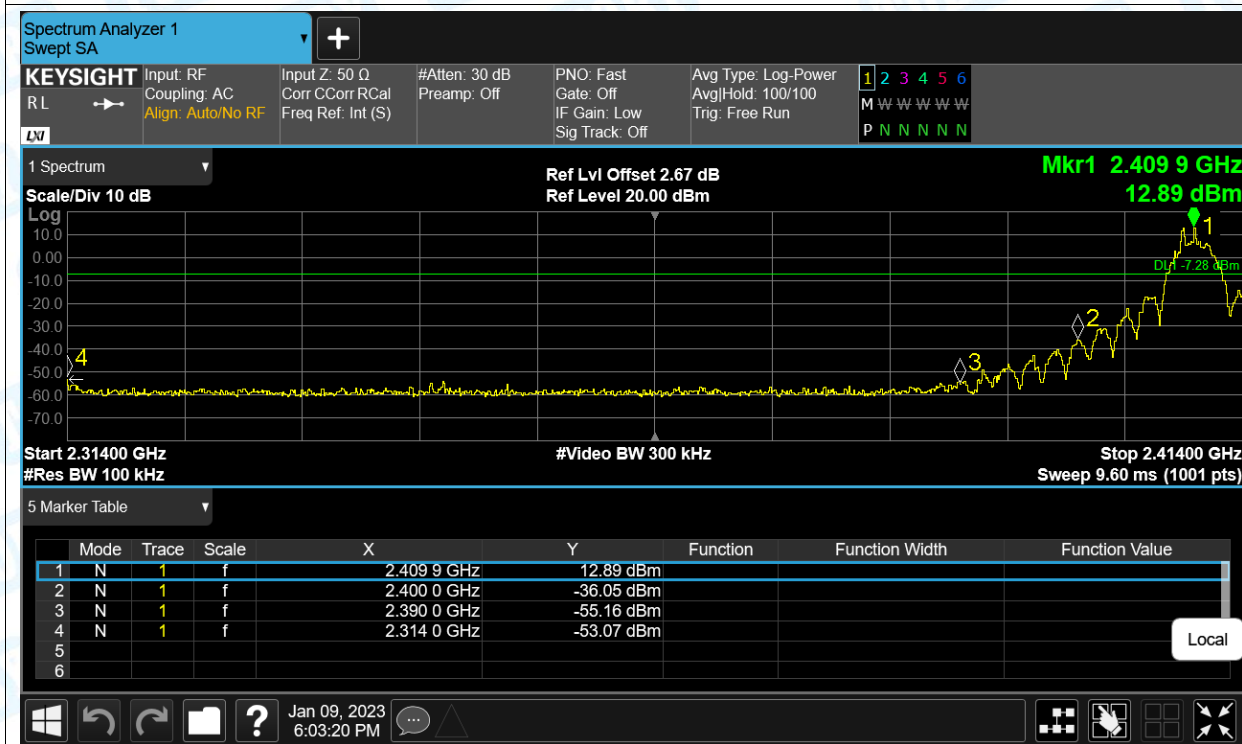
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	user	2410	Ant1	No-Hopping	-65.79	-20	Pass
NVNT	user	2473	Ant1	No-Hopping	-52.96	-20	Pass

Test Graphs

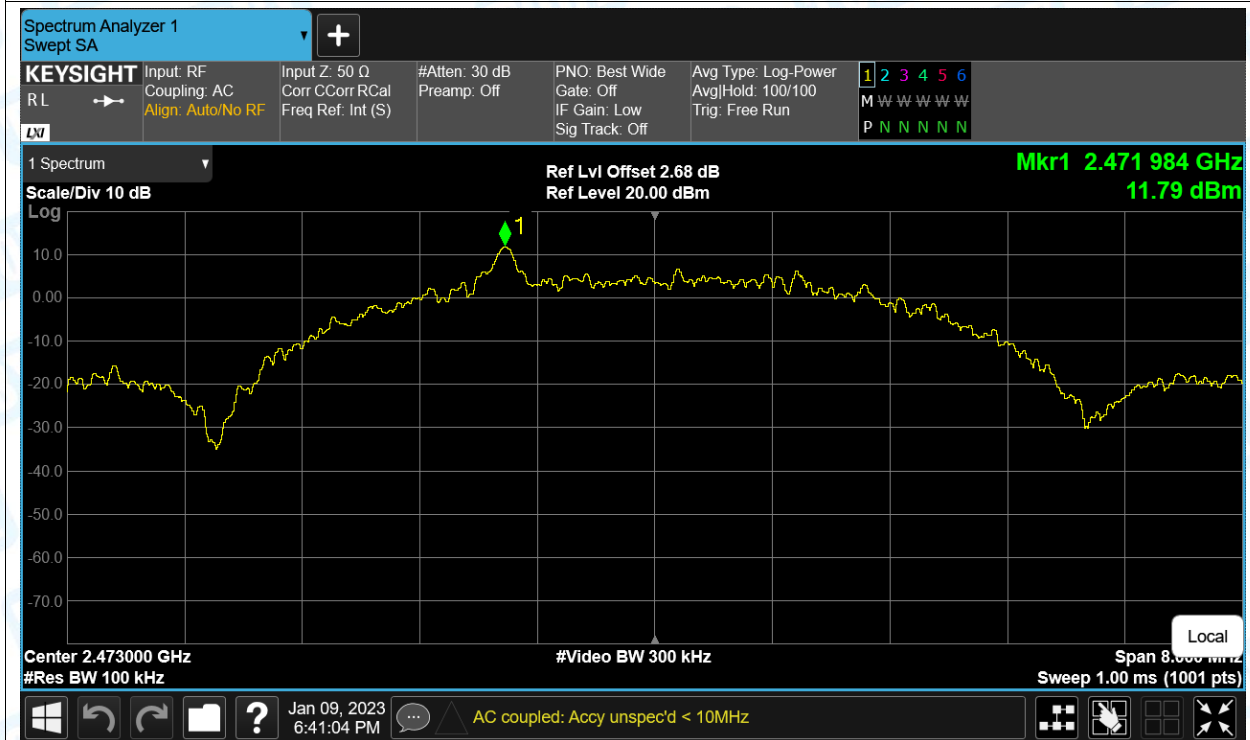
Band Edge NVNT user 2410MHz Ant1 No-Hopping Ref



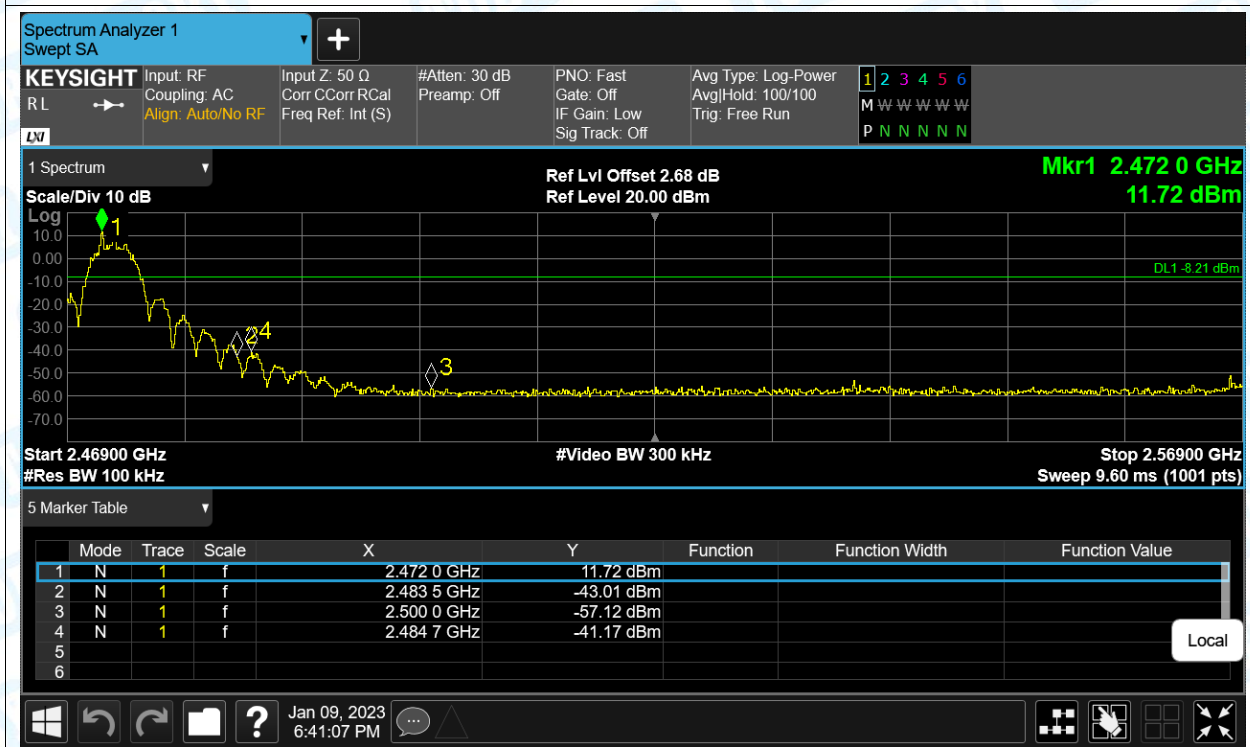
Band Edge NVNT user 2410MHz Ant1 No-Hopping Emission



Band Edge NVNT user 2473MHz Ant1 No-Hopping Ref



Band Edge NVNT user 2473MHz Ant1 No-Hopping Emission

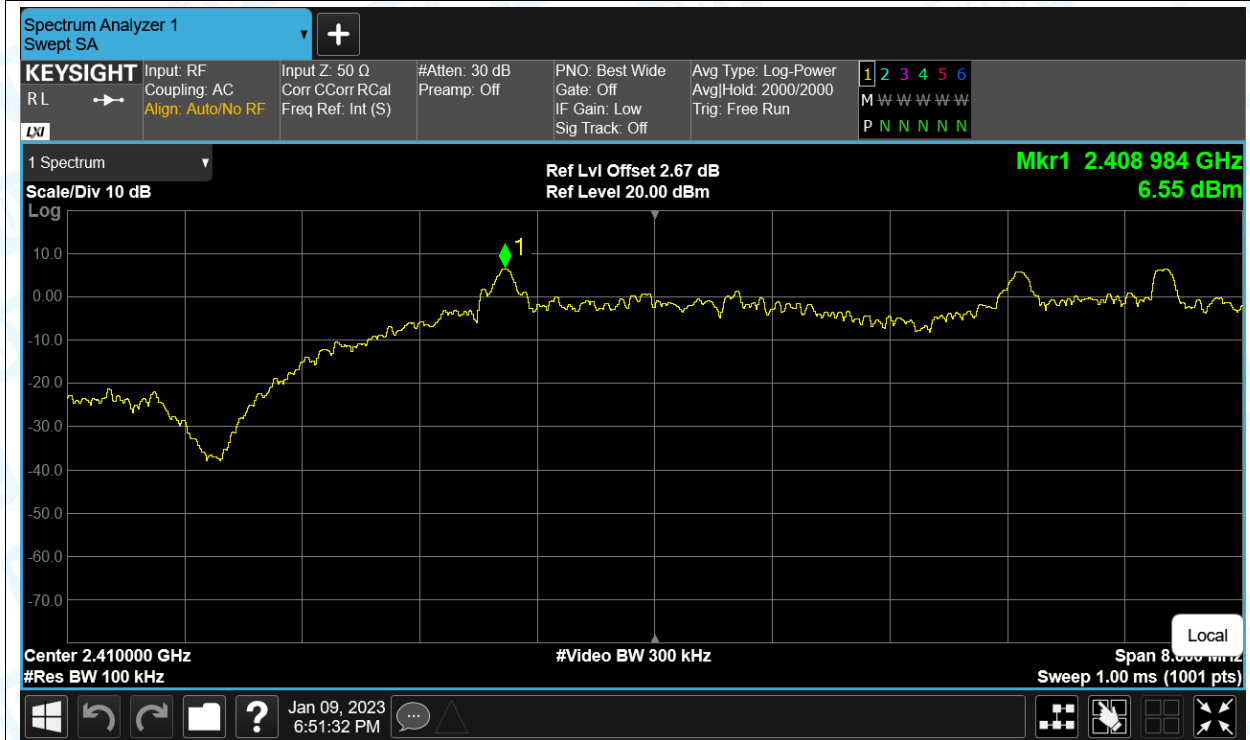


6. Band Edge(Hopping)

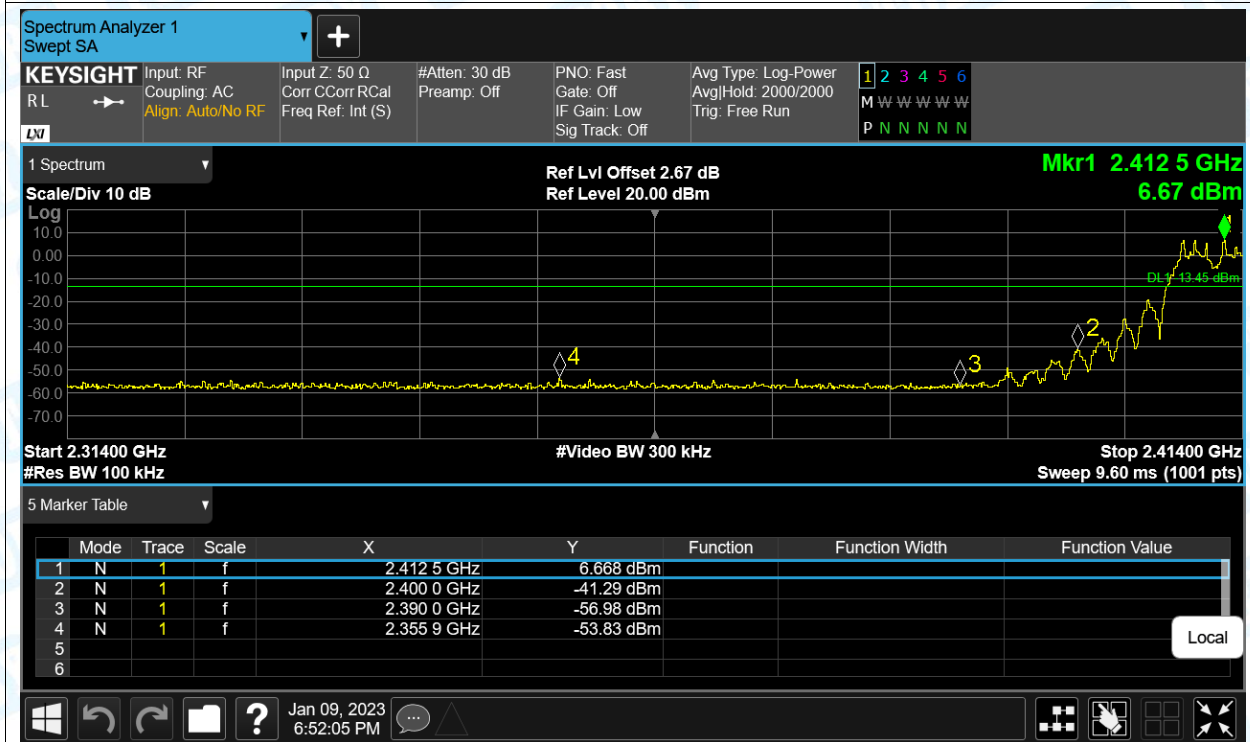
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	user	2410	Ant1	Hopping	-60.38	-20	Pass
NVNT	user	2473	Ant1	Hopping	-53.36	-20	Pass

Test Graphs

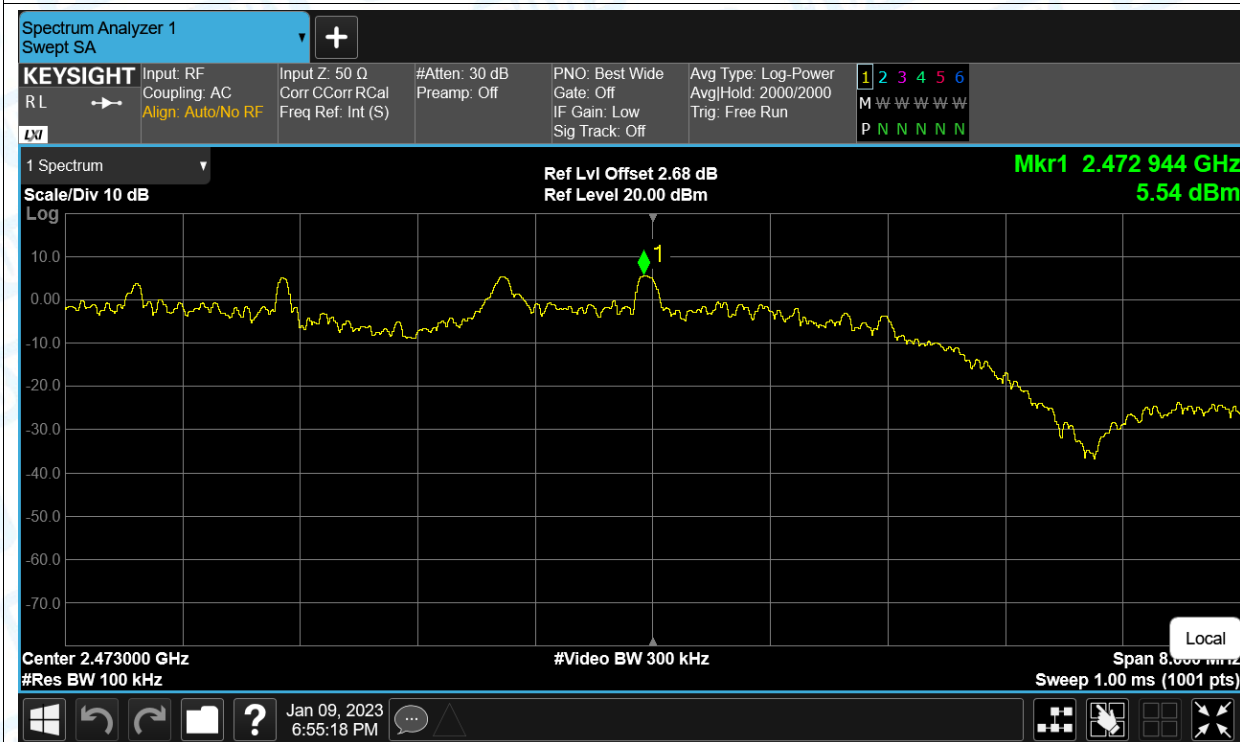
Band Edge(Hopping) NVNT user 2410MHz Ant1 Hopping Ref



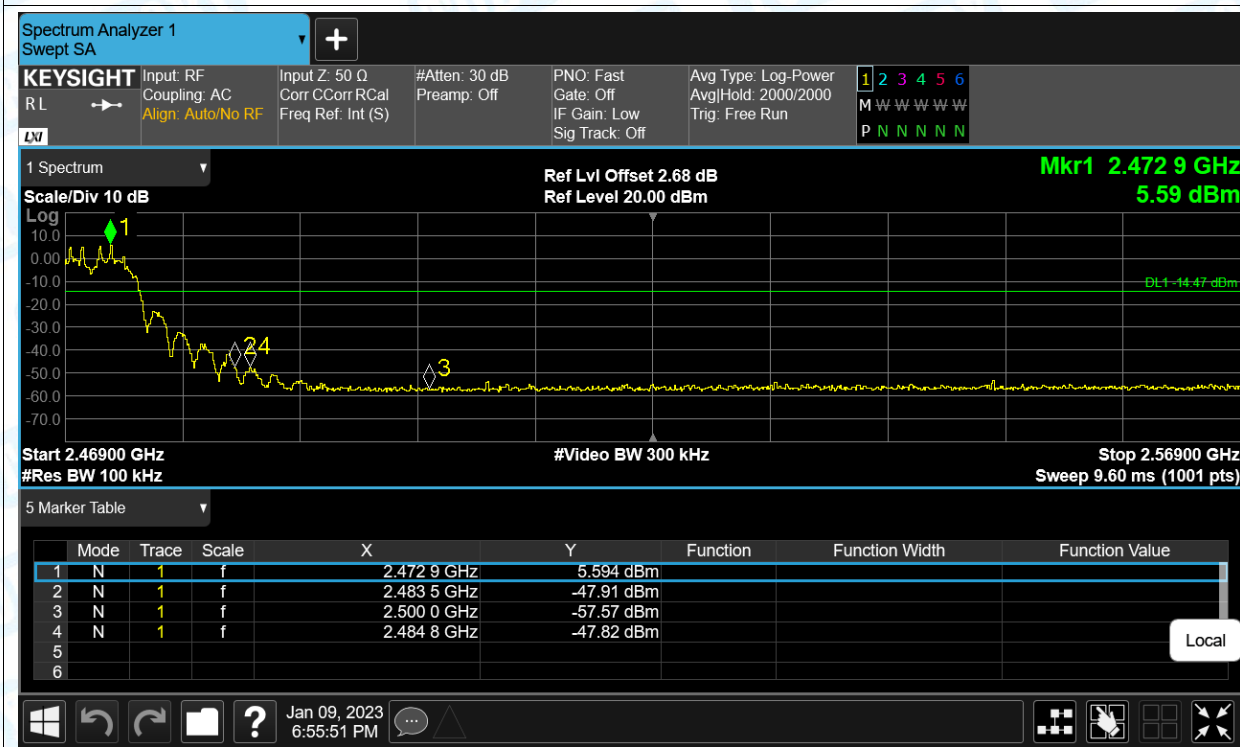
Band Edge(Hopping) NVNT user 2410MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT user 2473MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT user 2473MHz Ant1 Hopping Emission

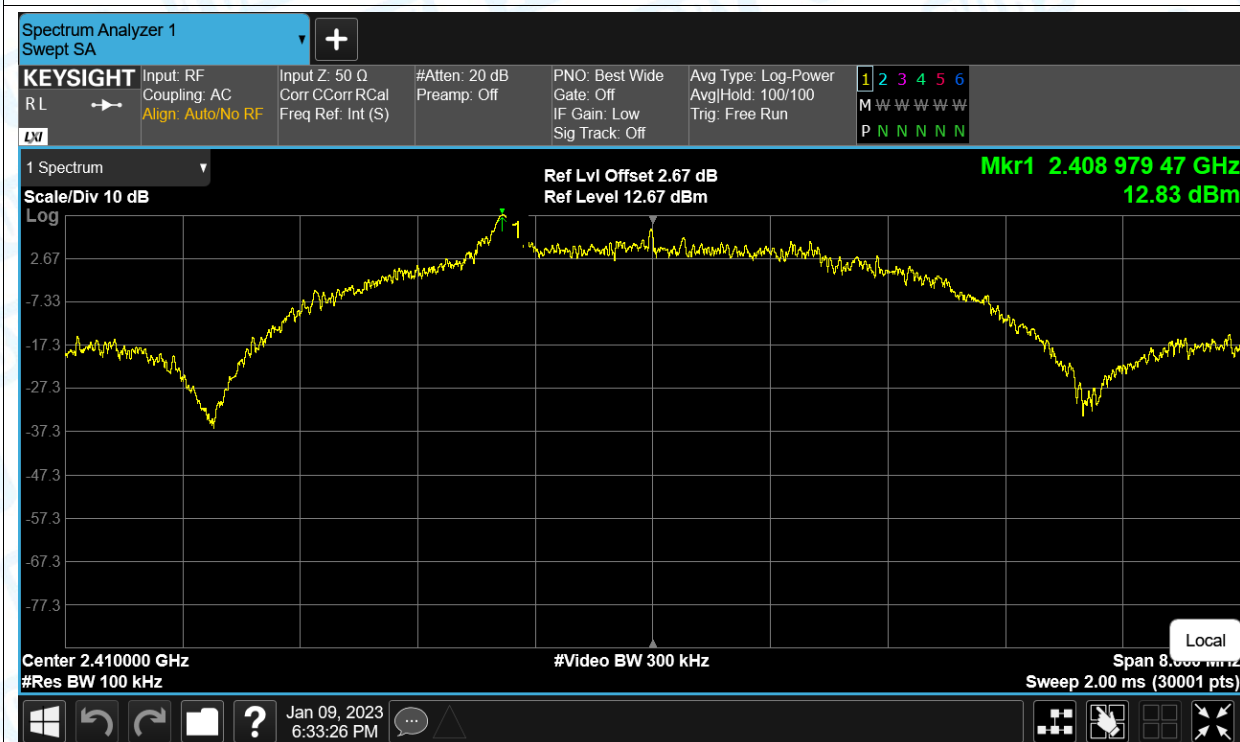


7. Conducted RF Spurious Emission

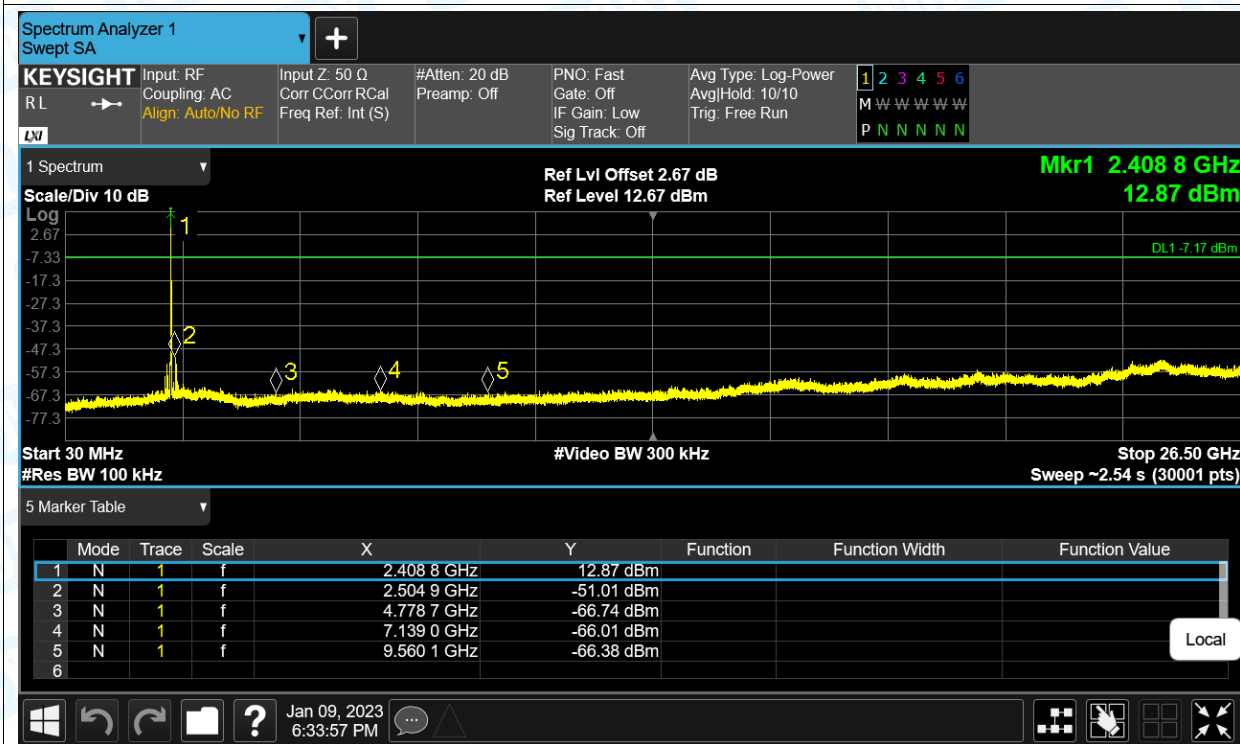
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	user	2410	Ant1	-63.84	-20	Pass
NVNT	user	2441.5	Ant1	-64.54	-20	Pass
NVNT	user	2473	Ant1	-52.31	-20	Pass

Test Graphs

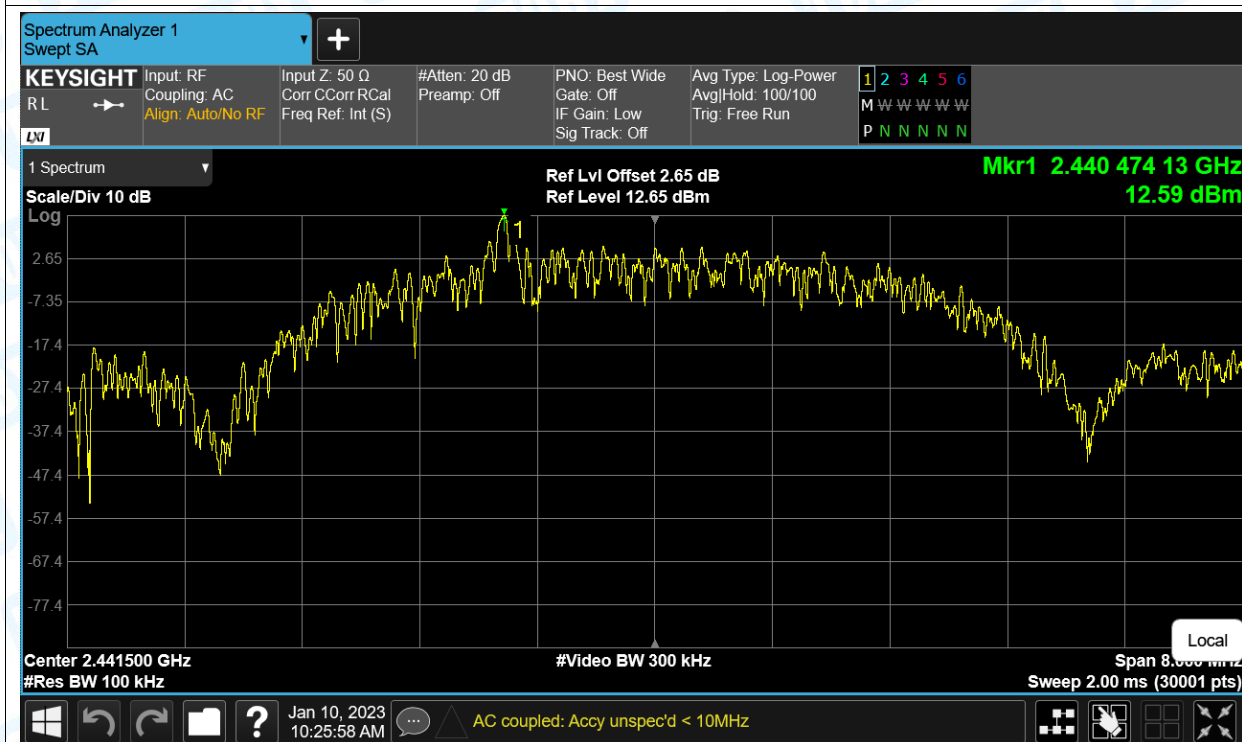
Tx. Spurious NVNT user 2410MHz Ant1 Ref



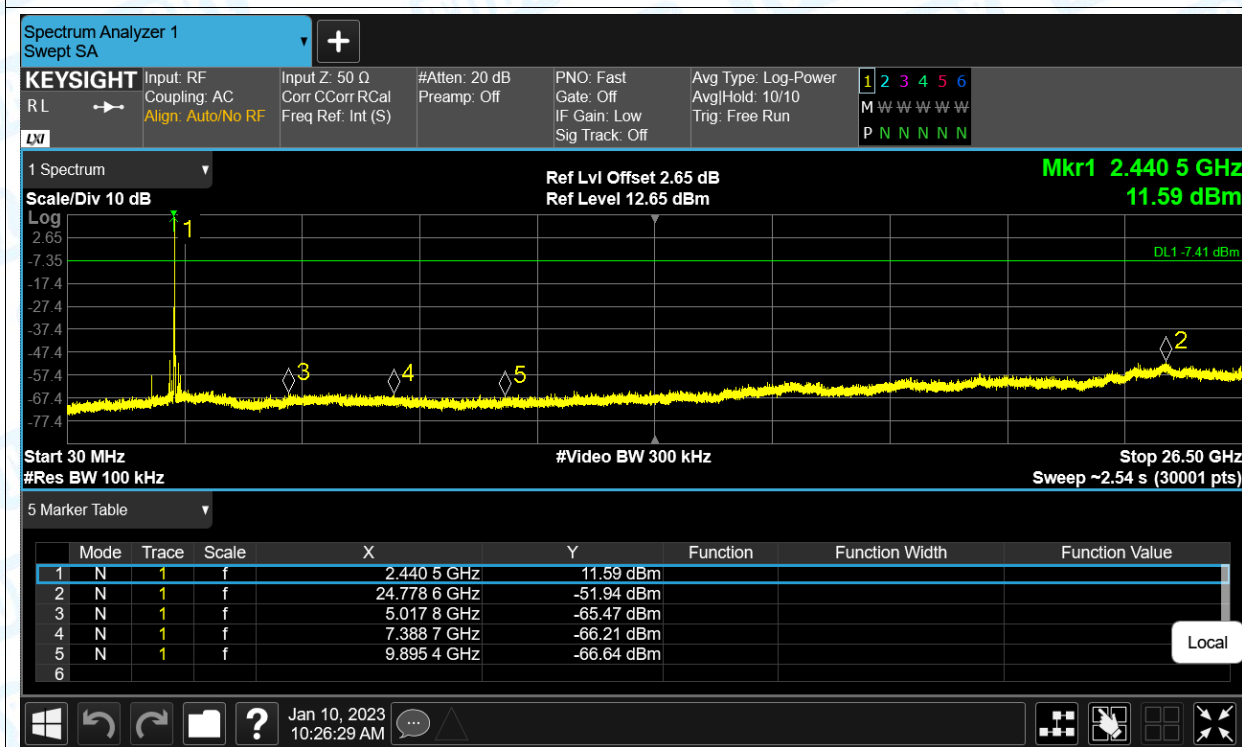
Tx. Spurious NVNT user 2410MHz Ant1 Emission



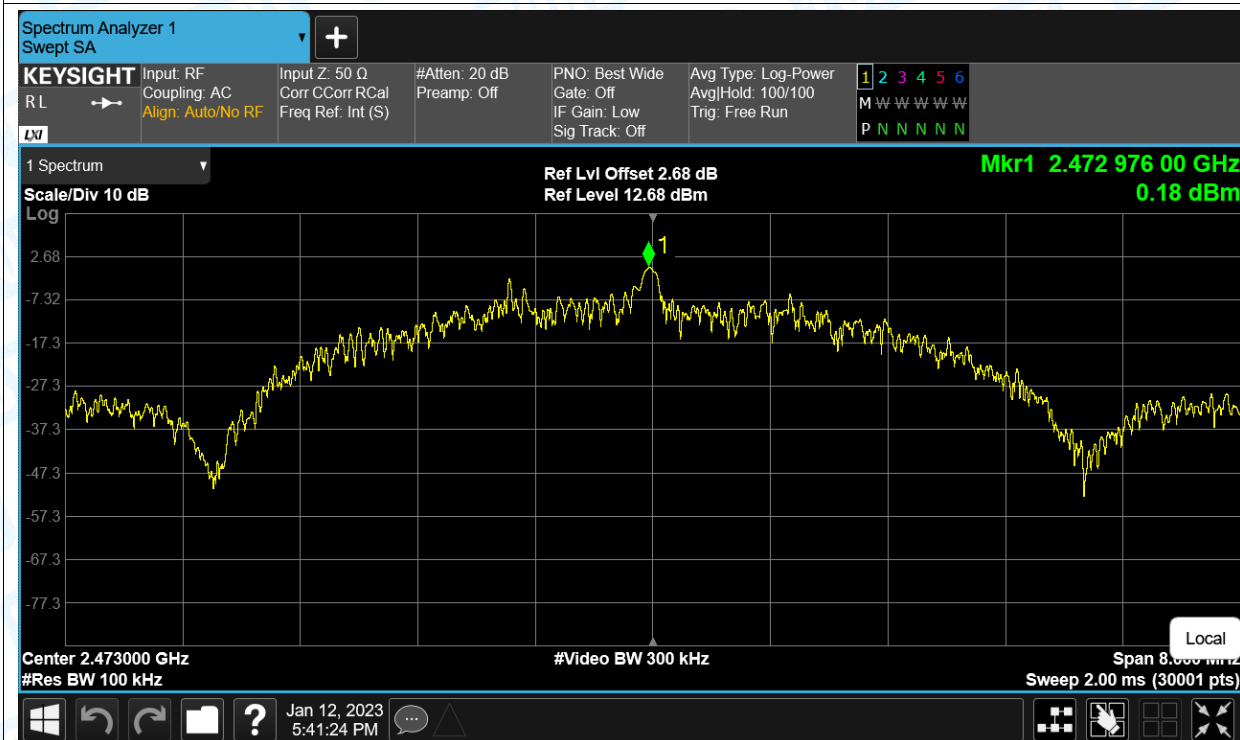
Tx. Spurious NVNT user 2441.5MHz Ant1 Ref



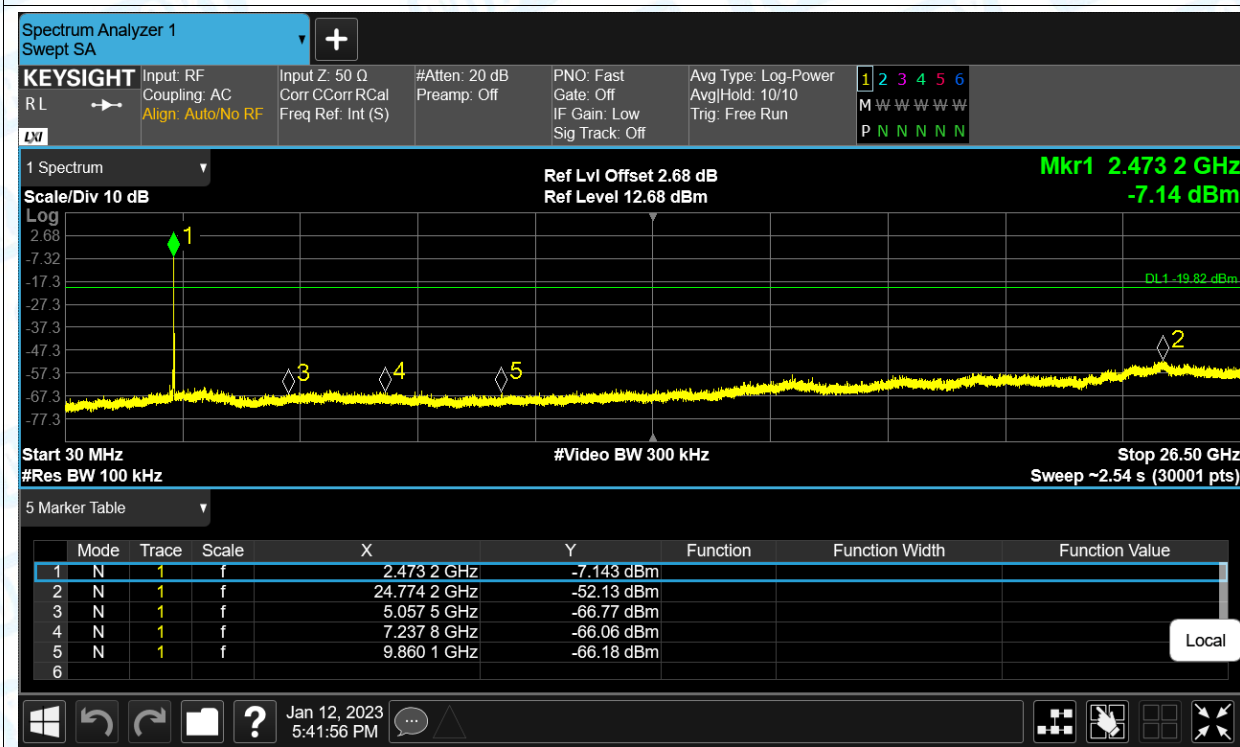
Tx. Spurious NVNT user 2441.5MHz Ant1 Emission



Tx. Spurious NVNT user 2473MHz Ant1 Ref



Tx. Spurious NVNT user 2473MHz Ant1 Emission

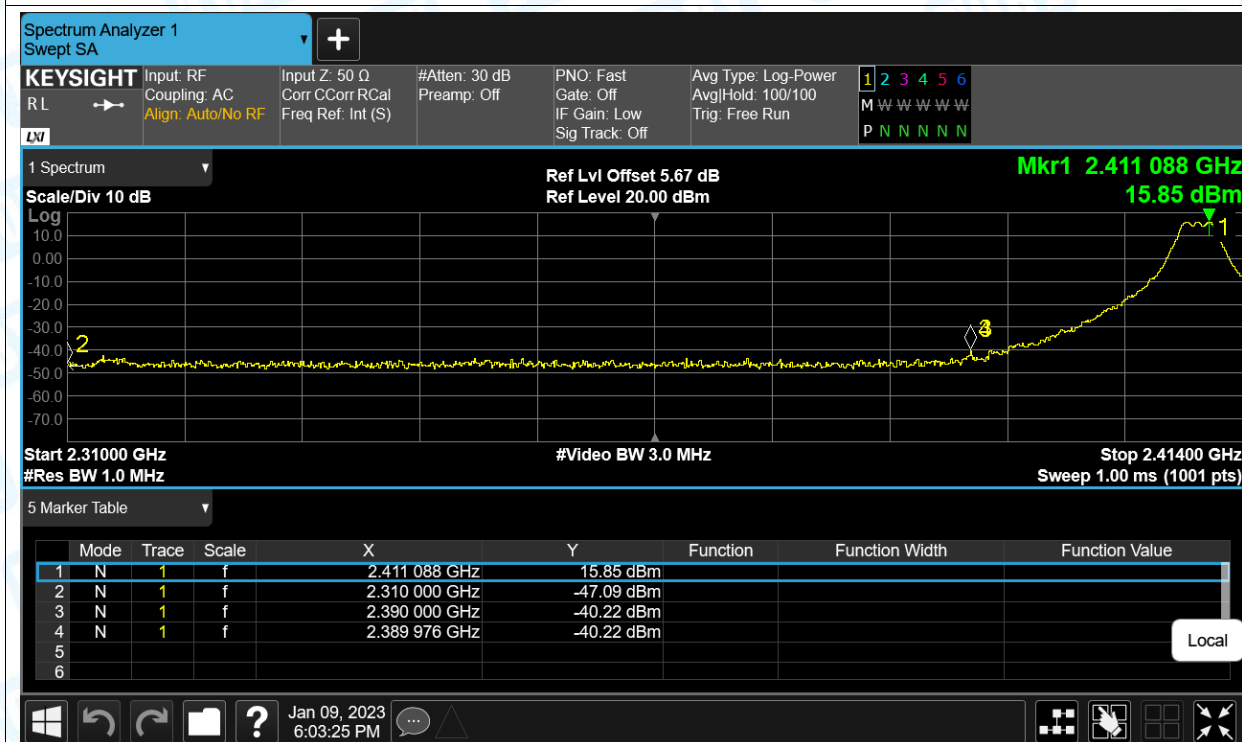


8. Restrict Band

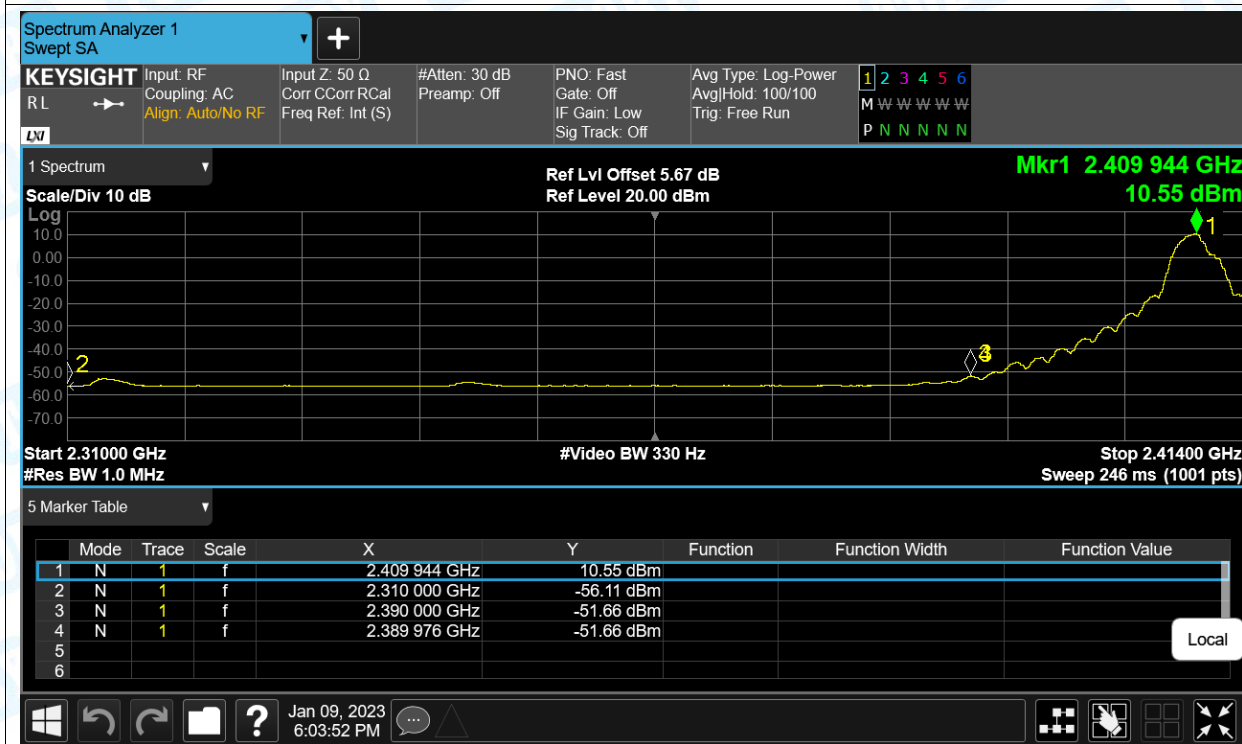
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	user	2410	Ant1	No-Hopping	2310	-47.09	2	50.17	Peak	74	Pass
NVNT	user	2410	Ant1	No-Hopping	2310	-56.11	2	41.15	Average	54	Pass
NVNT	user	2410	Ant1	No-Hopping	2389.976	-40.22	2	57.04	Peak	74	Pass
NVNT	user	2410	Ant1	No-Hopping	2389.976	-51.66	2	45.6	Average	54	Pass
NVNT	user	2410	Ant1	No-Hopping	2390	-42.47	2	54.79	Peak	74	Pass
NVNT	user	2410	Ant1	No-Hopping	2390	-51.87	2	45.39	Average	54	Pass
NVNT	user	2473	Ant1	No-Hopping	2483.5	-40.28	2	56.98	Peak	74	Pass
NVNT	user	2473	Ant1	No-Hopping	2483.5	-49.65	2	47.61	Average	54	Pass
NVNT	user	2473	Ant1	No-Hopping	2483.601	-39.44	2	57.82	Peak	74	Pass
NVNT	user	2473	Ant1	No-Hopping	2483.508	-49.65	2	47.61	Average	54	Pass
NVNT	user	2473	Ant1	No-Hopping	2500	-46.85	2	50.41	Peak	74	Pass
NVNT	user	2473	Ant1	No-Hopping	2500	-56.15	2	41.11	Average	54	Pass

Test Graphs

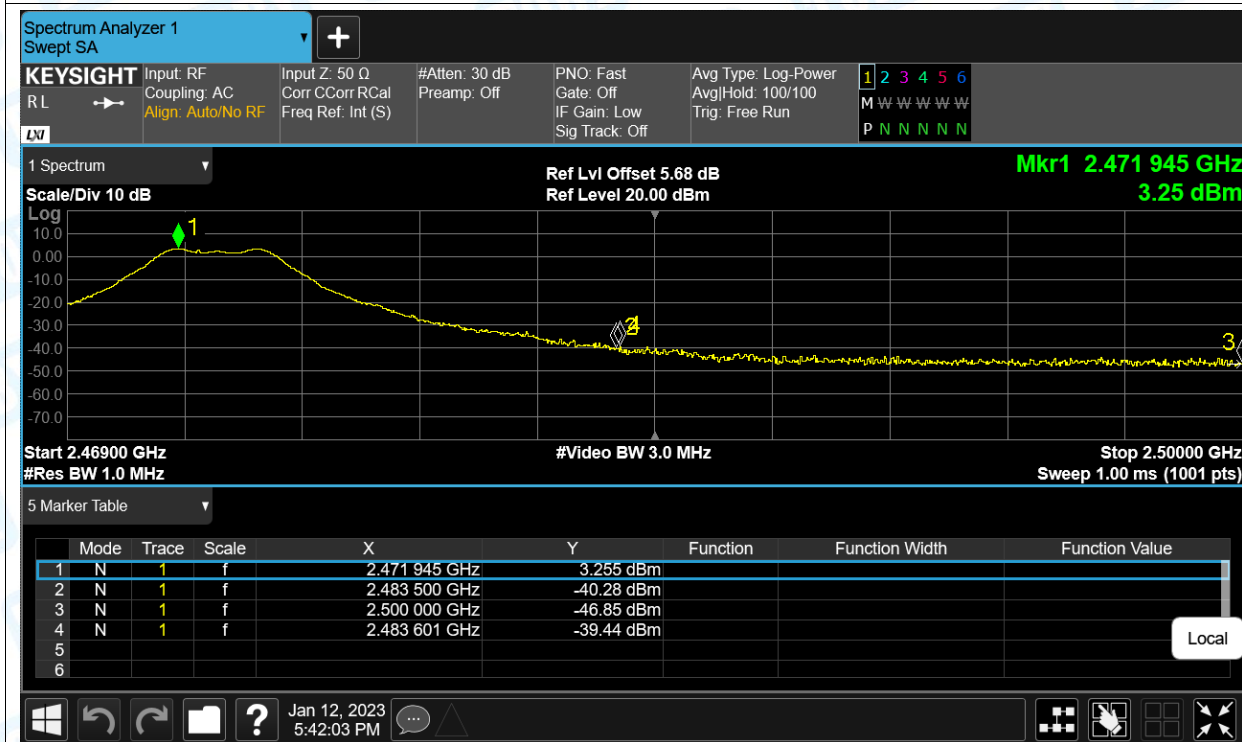
Restrict Band NVNT user 2410MHz Ant1 No-Hopping Peak



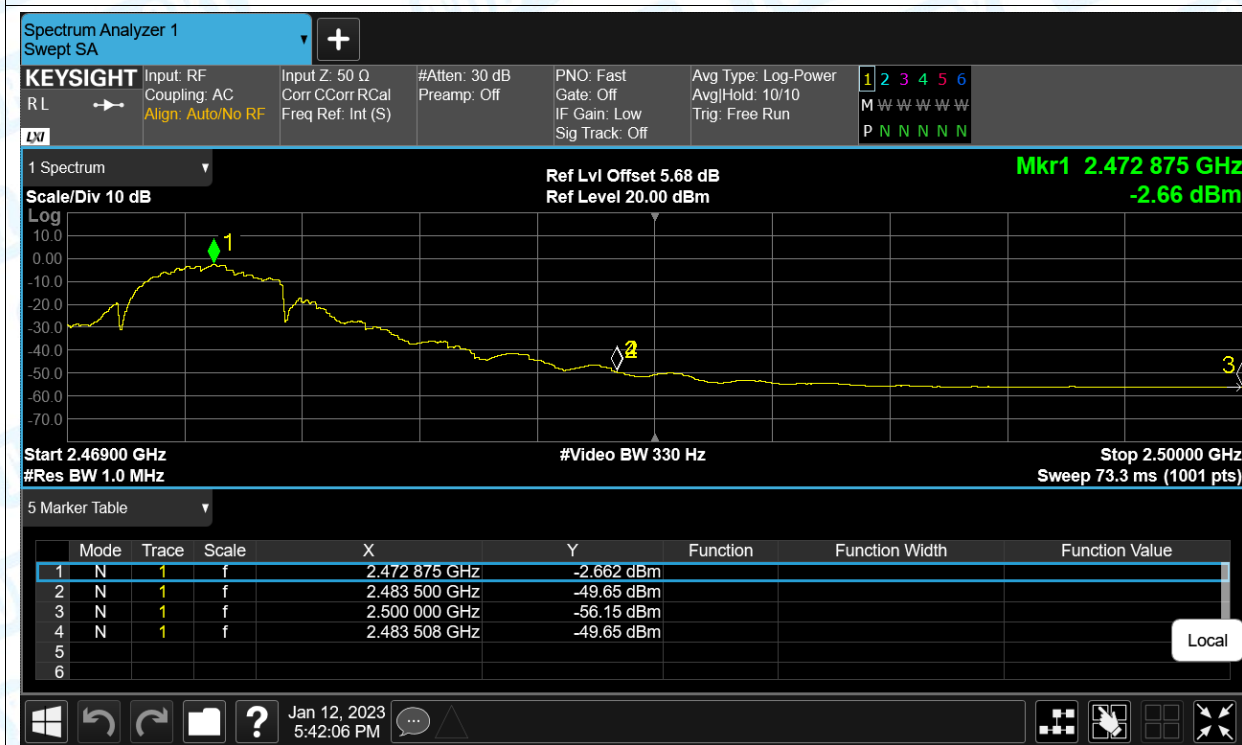
Restrict Band NVNT user 2410MHz Ant1 No-Hopping Average



Restrict Band NVNT user 2473MHz Ant1 No-Hopping Peak

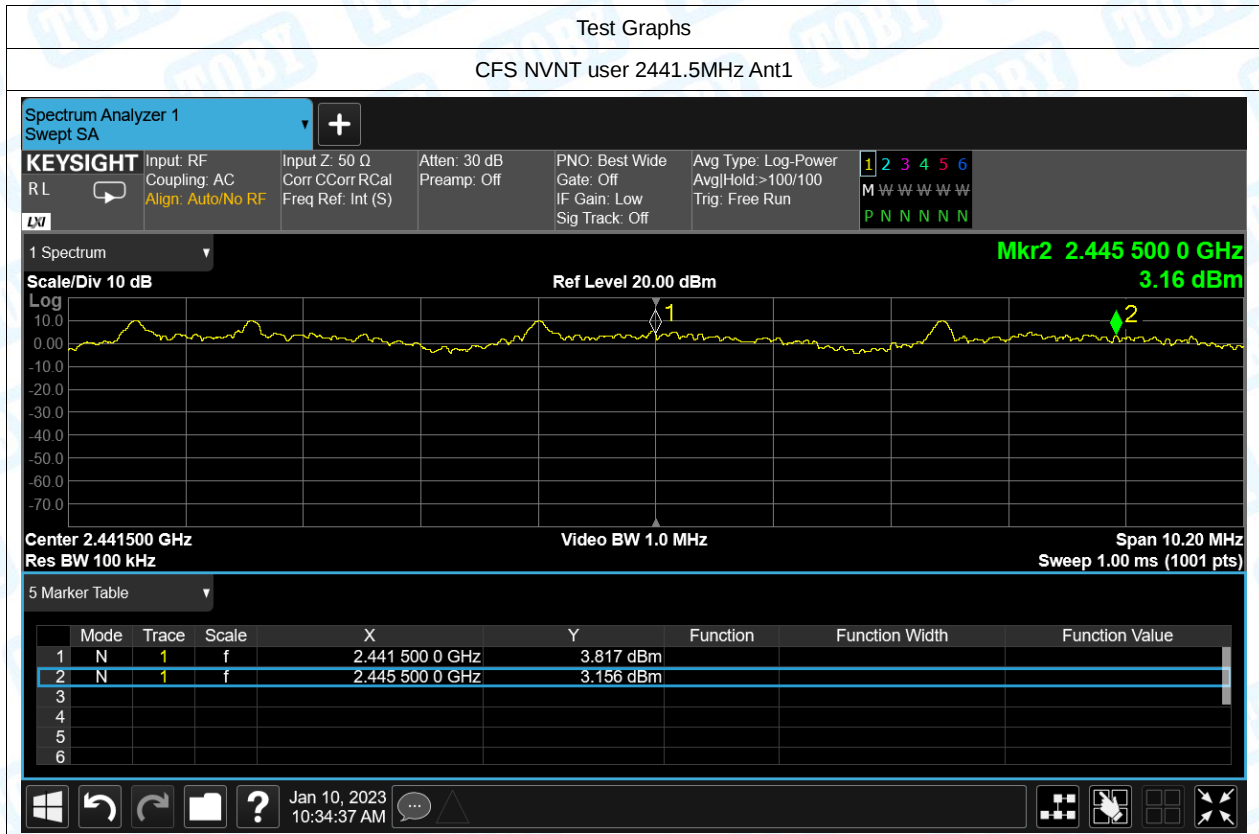


Restrict Band NVNT user 2473MHz Ant1 No-Hopping Average



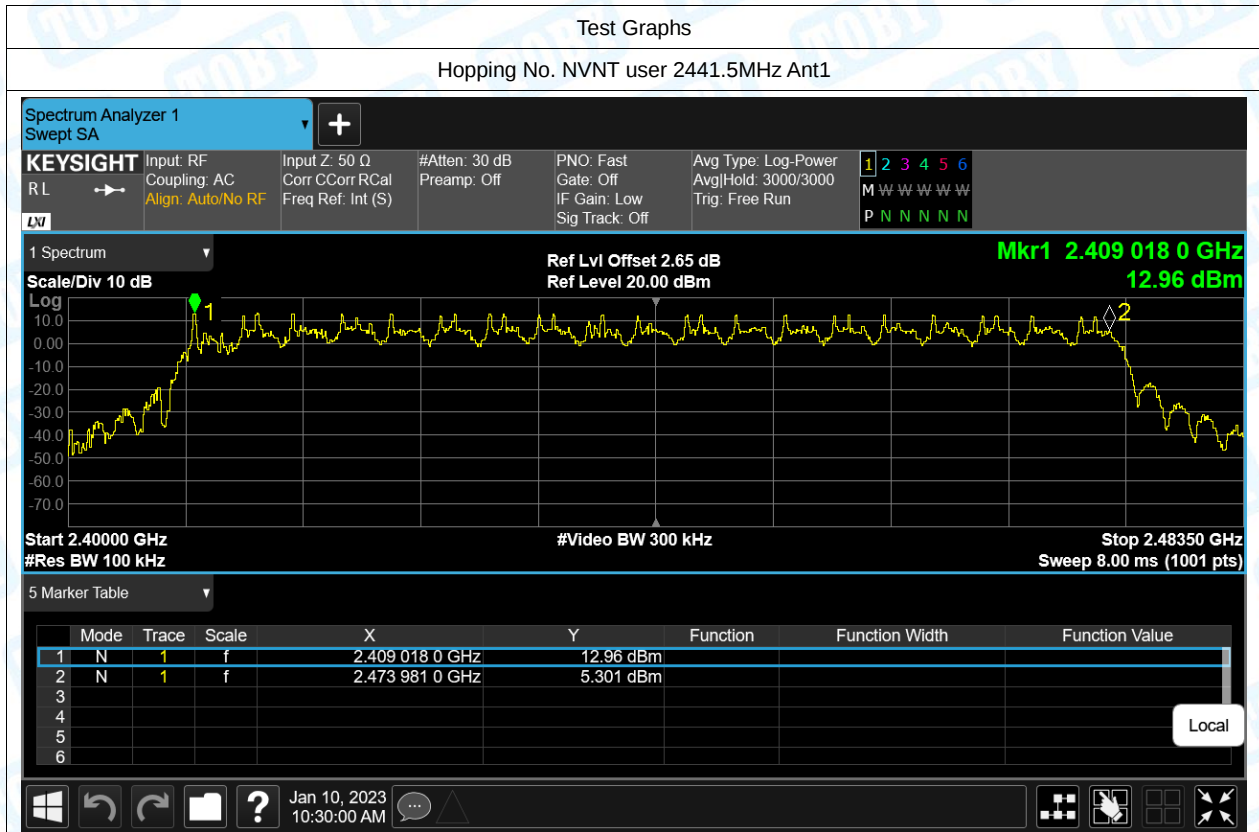
9. Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	user	Ant1	2441.500	2445.500	4.000	3.027	Pass



10. Number of Hopping Channel

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	user	Ant1	19	15	Pass



11. Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total hops	Test Result (ms)	Limit (ms)	Verdict
NVNT	user	2441.5	Ant1	3.250	77	250.25	400	Pass

