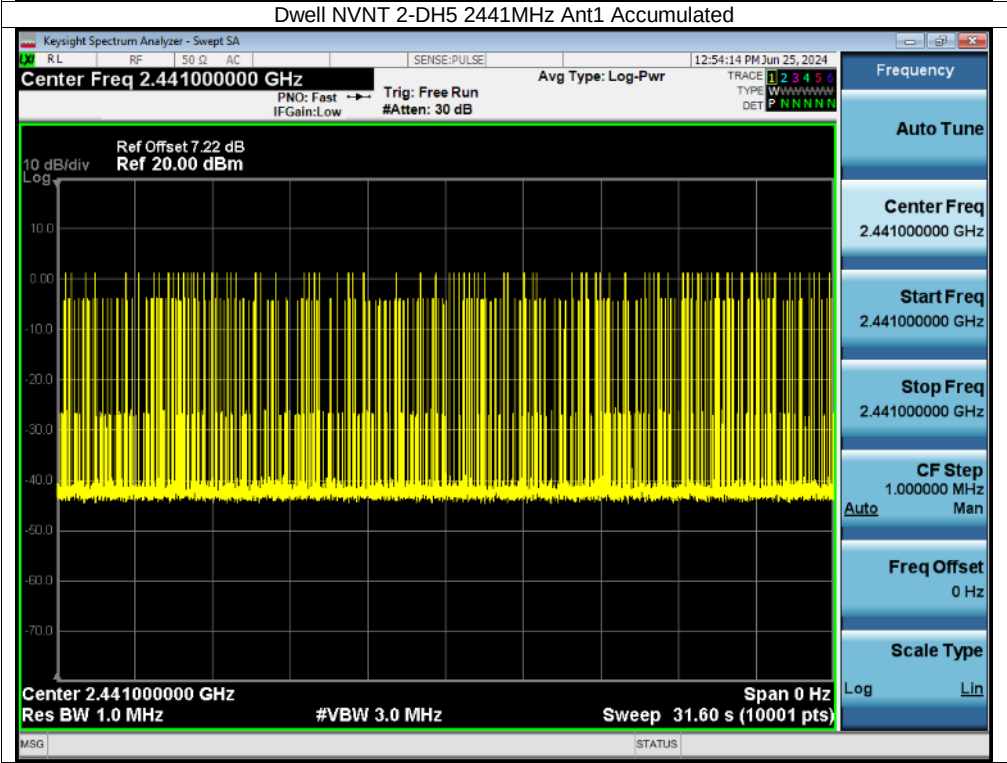
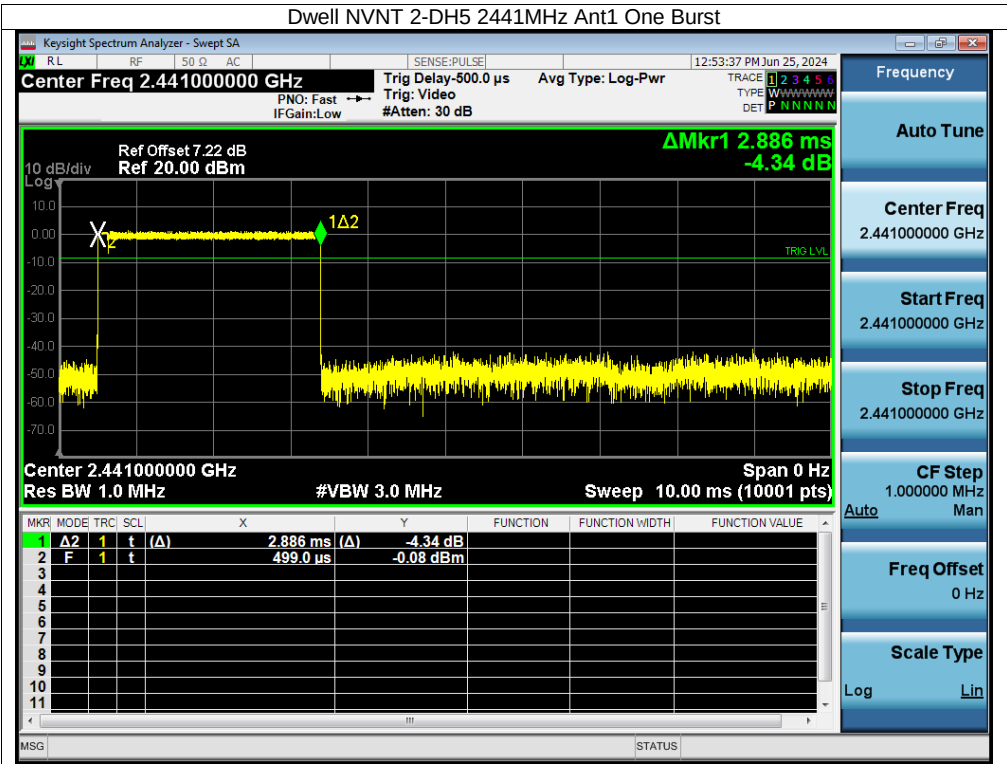
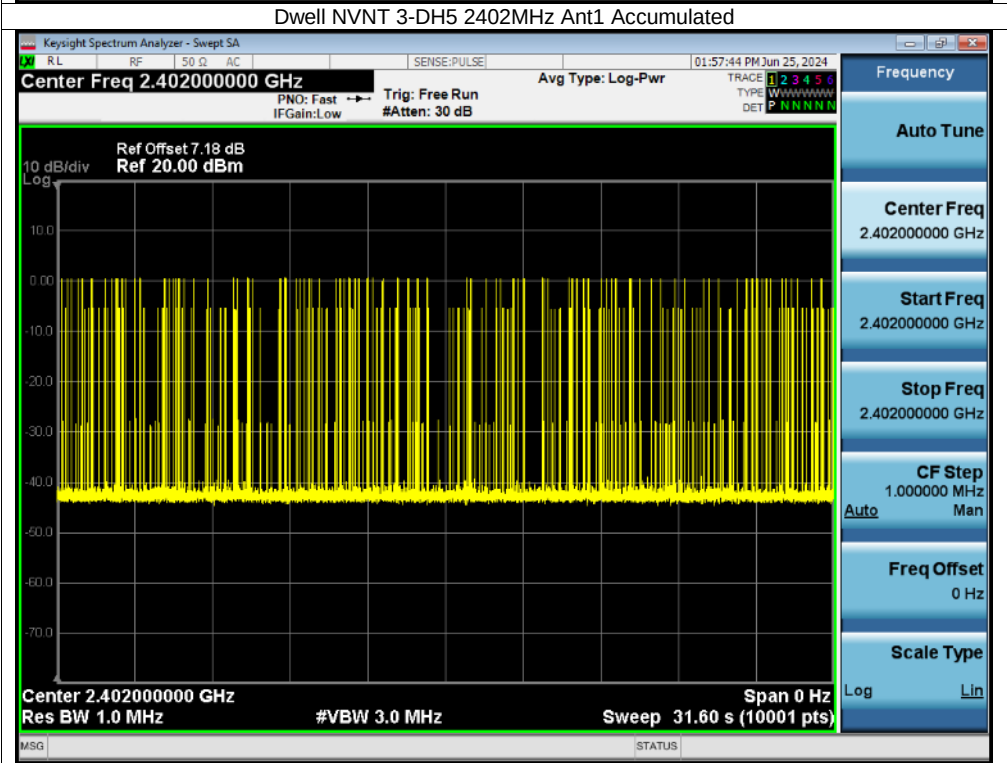
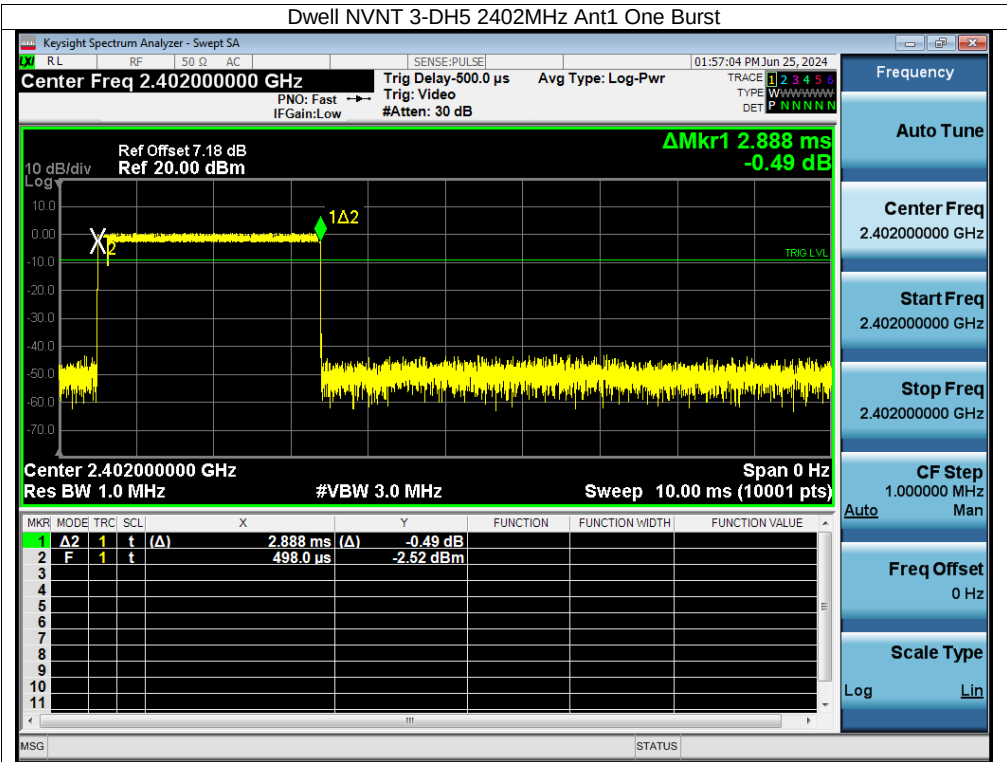
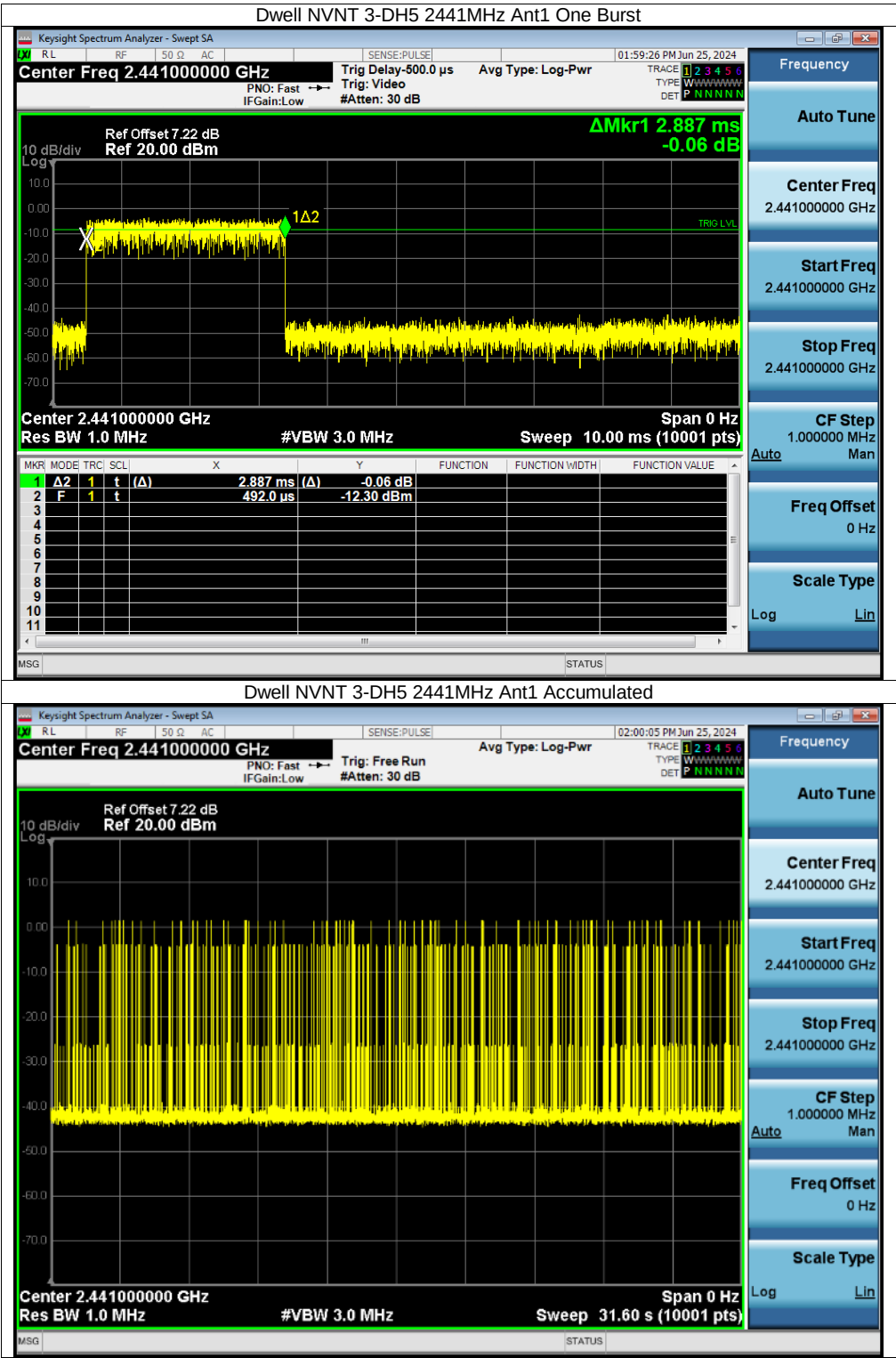








Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated

Keysight Spectrum Analyzer - Swept SA

RLRF50QACSENSE:PULSE

02:00:05 PM Jun 25, 2024

Center Freq 2.441000000 GHz

Trig: Free Run

Avg Type: Log-Pwr

Trig: Video

PNO: Fast

IFGain:Low

#Atten: 30 dB

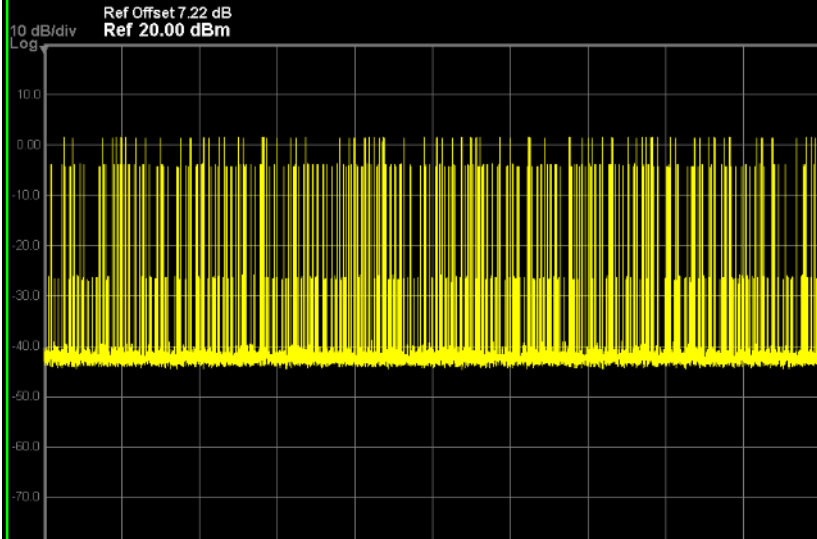
TRACE 1 2 3 4 5 6

TYPE W W W W W W W W

DET P N N N N N

Ref Offset 7.22 dB

Ref 20.00 dBm



Center 2.441000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 31.60 s (10001 pts)

Span 0 Hz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ 2	1	t	(Δ)	2.887 ms	(Δ)	-0.06 dB	
2	F	1	t		492.0 μ s		-12.30 dBm	
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG

STATUS

Frequency

Auto Tune

Center Freq
2.441000000 GHz

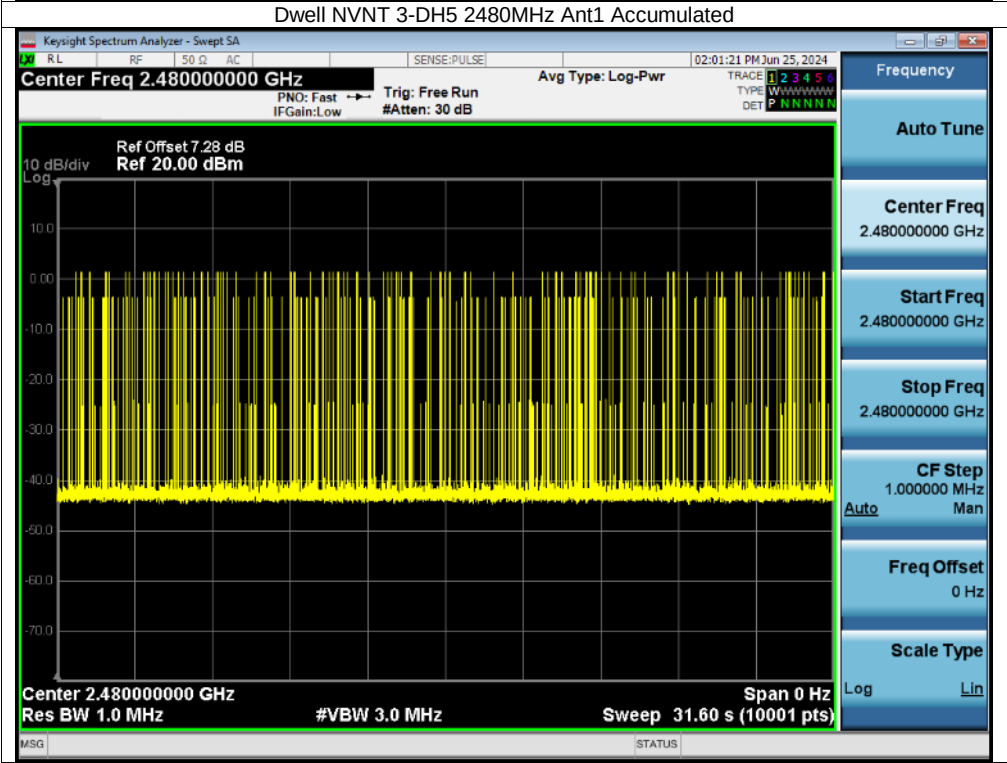
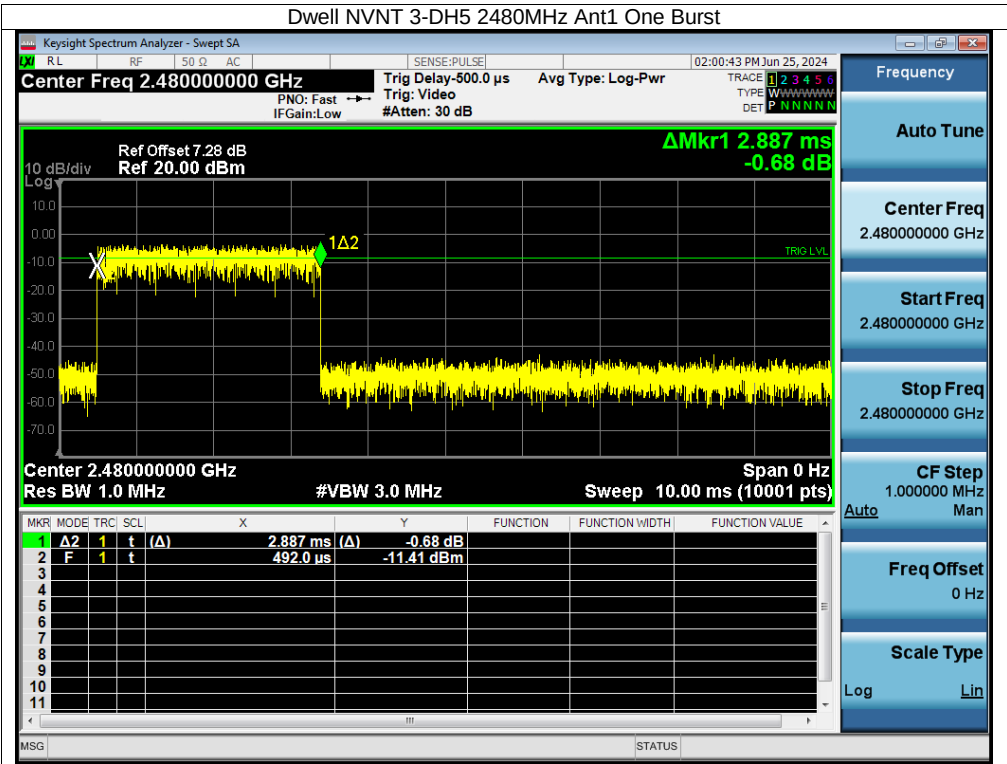
Start Freq
2.441000000 GHz

Stop Freq
2.441000000 GHz

CF Step
1.000000 MHz
Auto Man

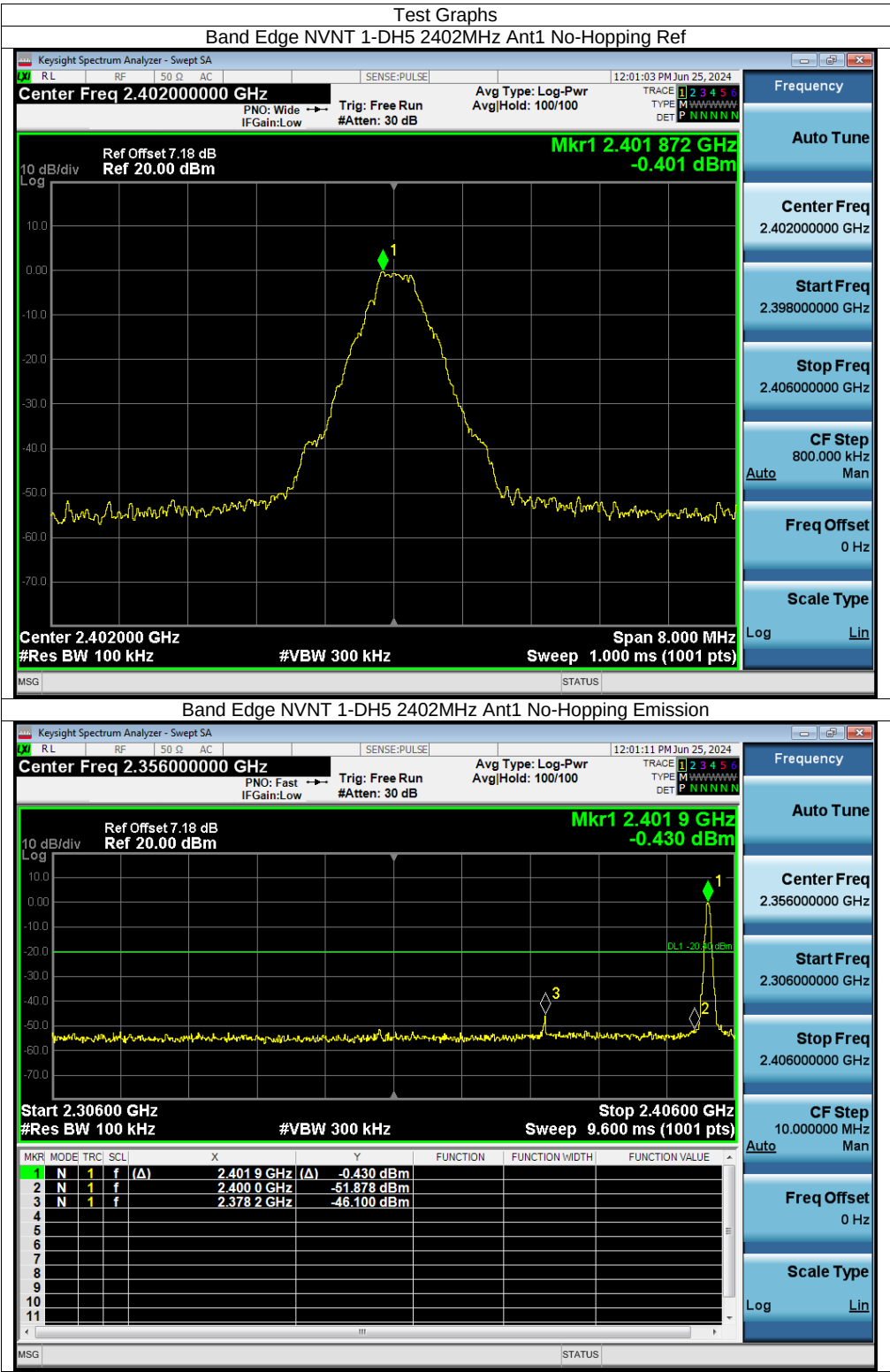
Freq Offset
0 Hz

Scale Type
Log Lin



Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-45.699	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-51.622	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-48.827	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-51.12	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-47.846	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-50.591	-20	Pass



Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

Keysight Spectrum Analyzer - Swept SA

RLRF50ΩACSENSE:PULSE

12:01:11 PM Jun 25, 2024

Center Freq 2.356000000 GHz

PNO: Fast → Trig: Free Run Avg Type: Log-Pwr

IFGain:Low #Atten: 30 dB AvgHld: 100/100

TRACE 1 2 3 4 5 6

TYPE M W W W W W W W

DET P N N N N N

Ref Offset 7.18 dB

Ref 20.00 dBm

Mkr1 2.401 9 GHz

-0.430 dBm

Start 2.30600 GHz

#Res BW 100 kHz

#VBW 300 kHz

Stop 2.40600 GHz

Sweep 9.600 ms (1001 pts)

MSGSTATUS

Frequency

Auto Tune

Center Freq

2.356000000 GHz

Start Freq

2.306000000 GHz

Stop Freq

2.406000000 GHz

CF Step

10.000000 MHz

Auto

Man

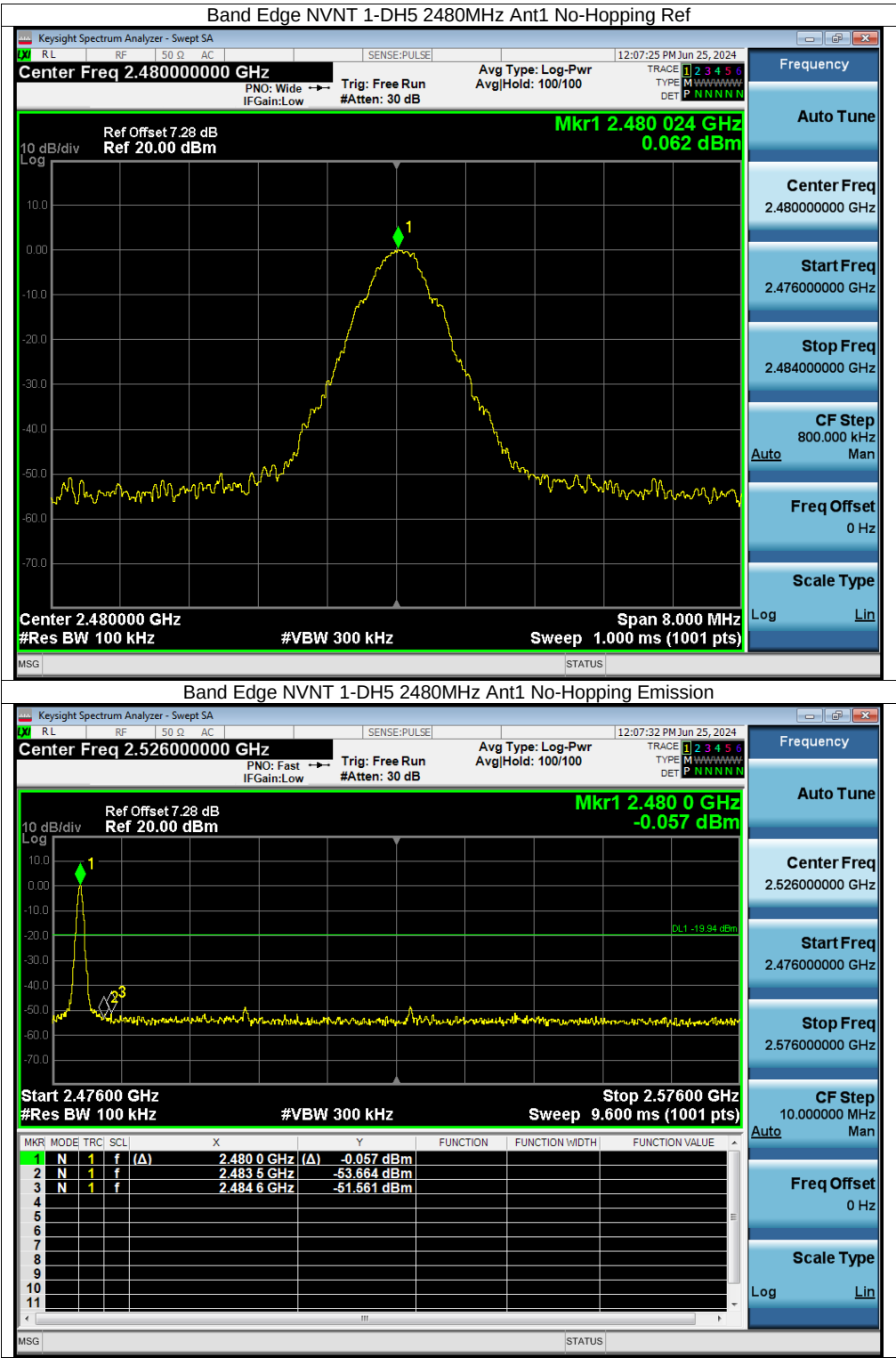
Freq Offset

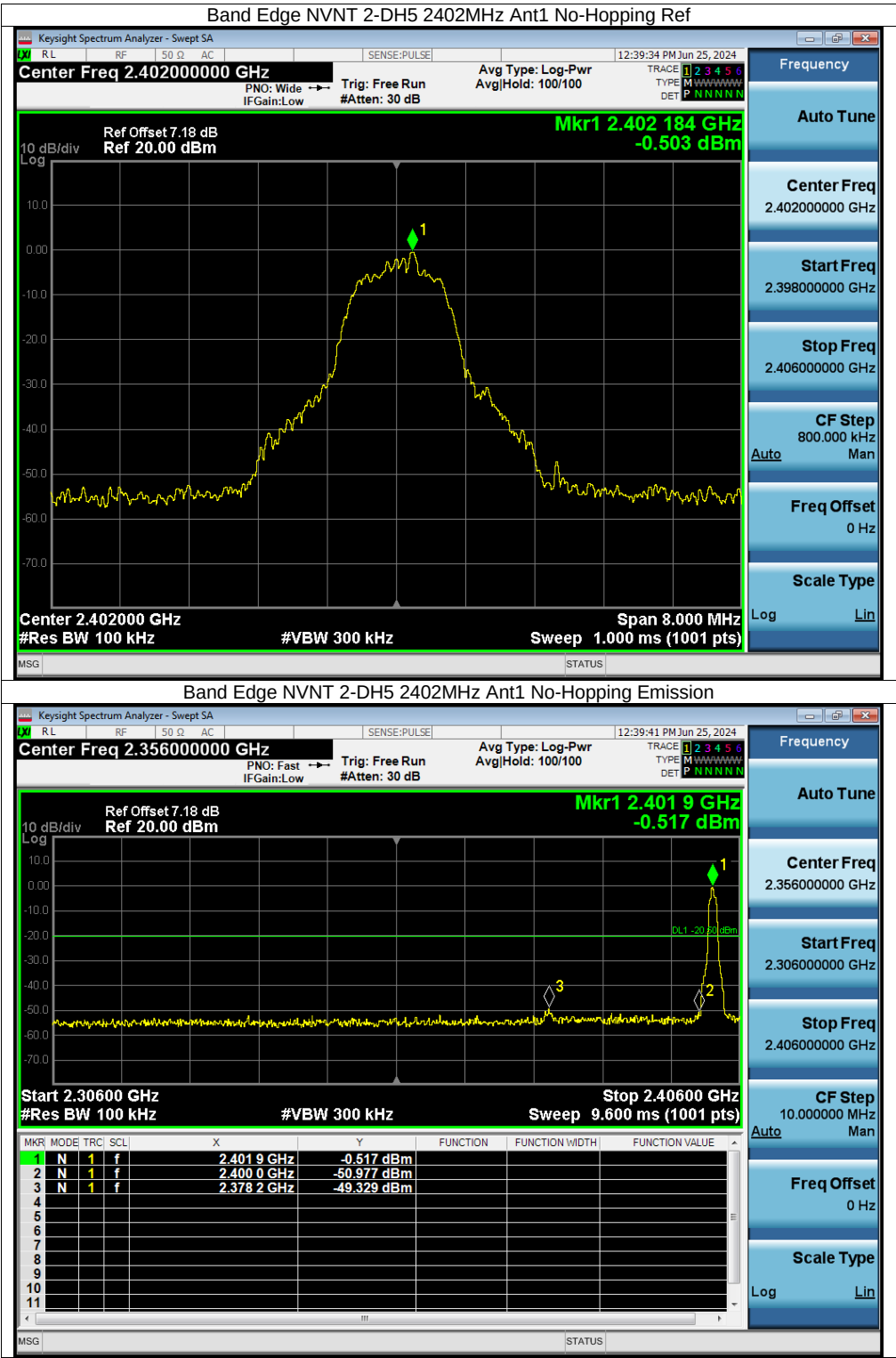
0 Hz

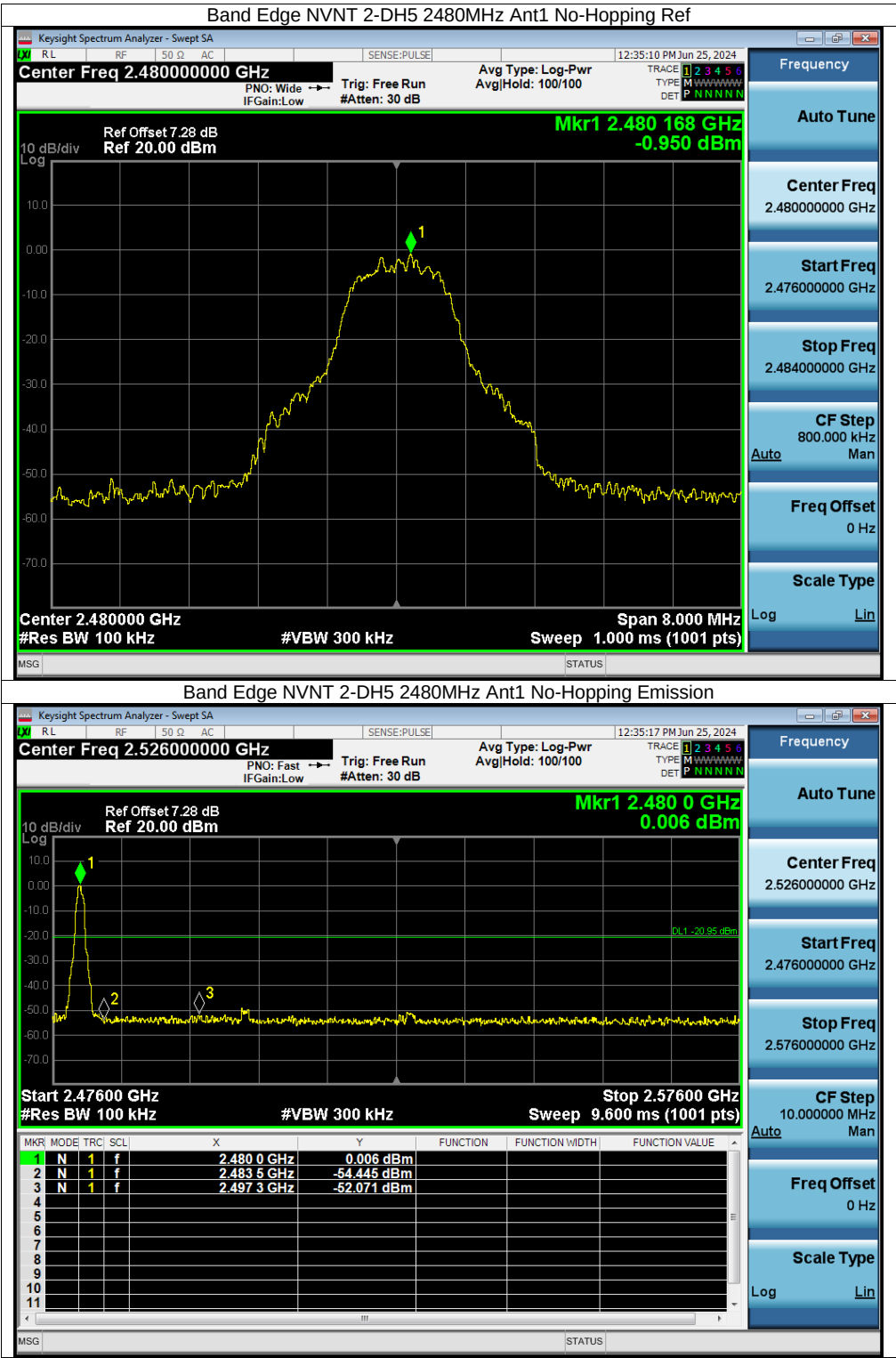
Scale Type

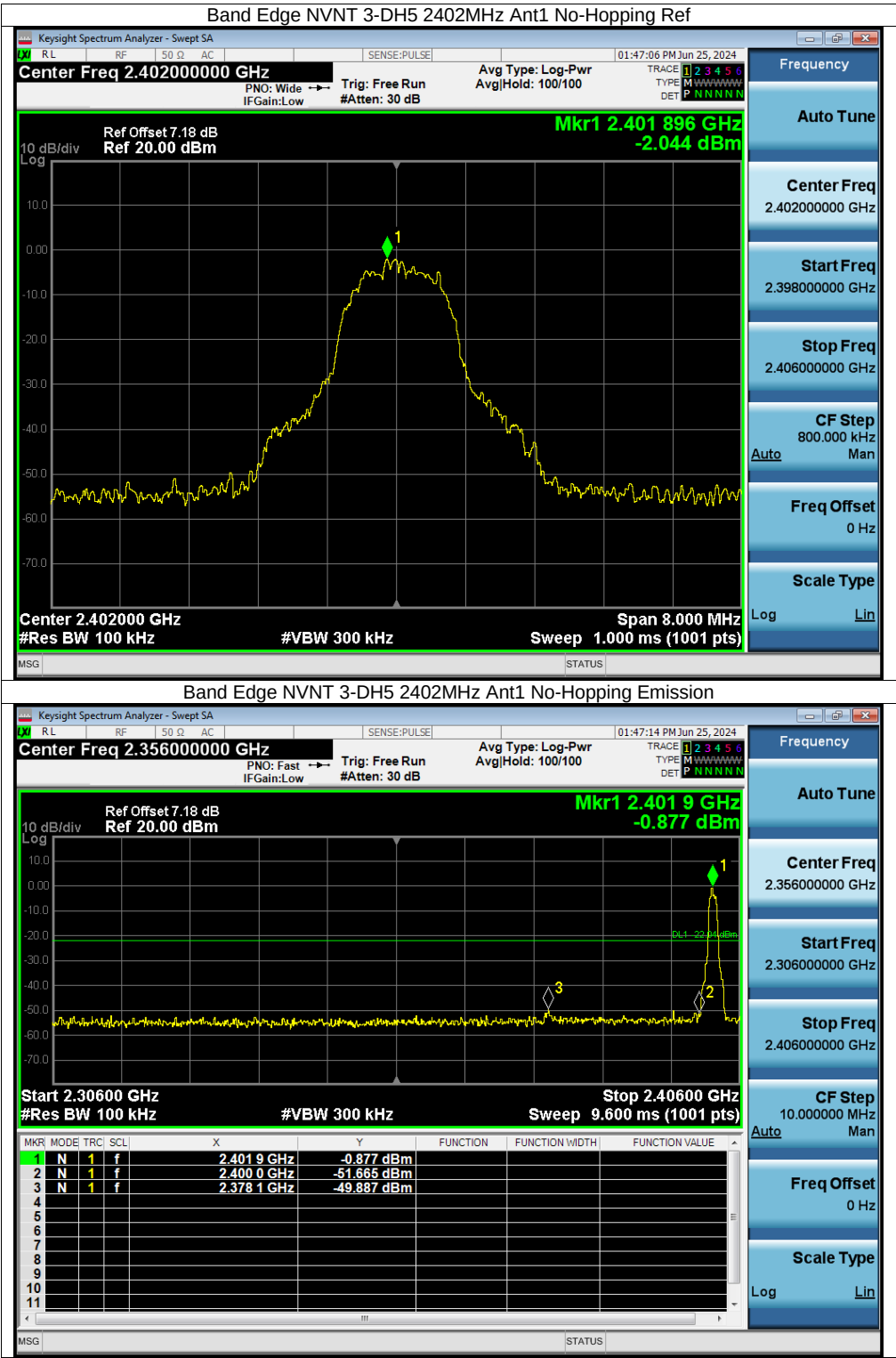
Log

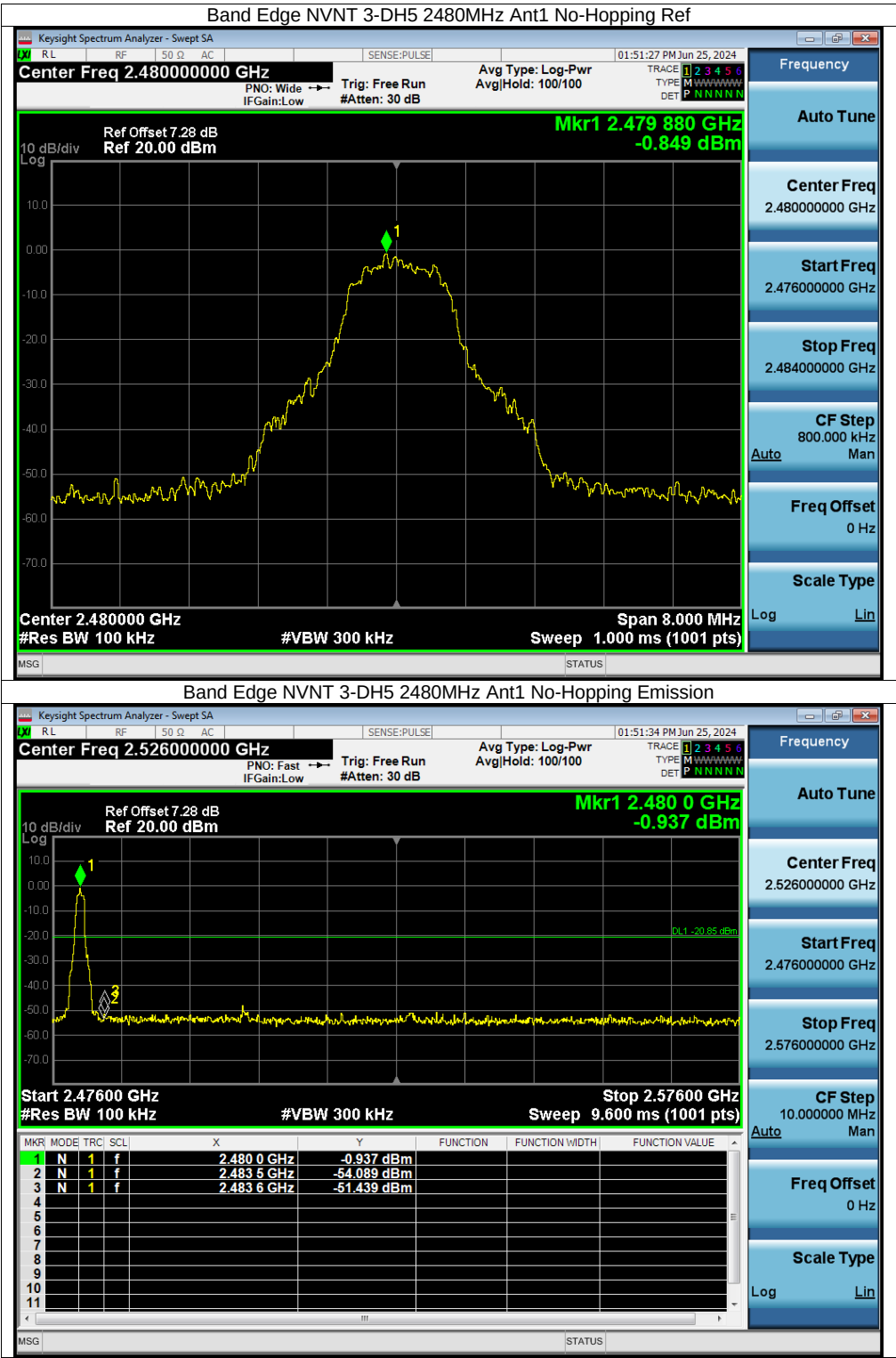
Lin





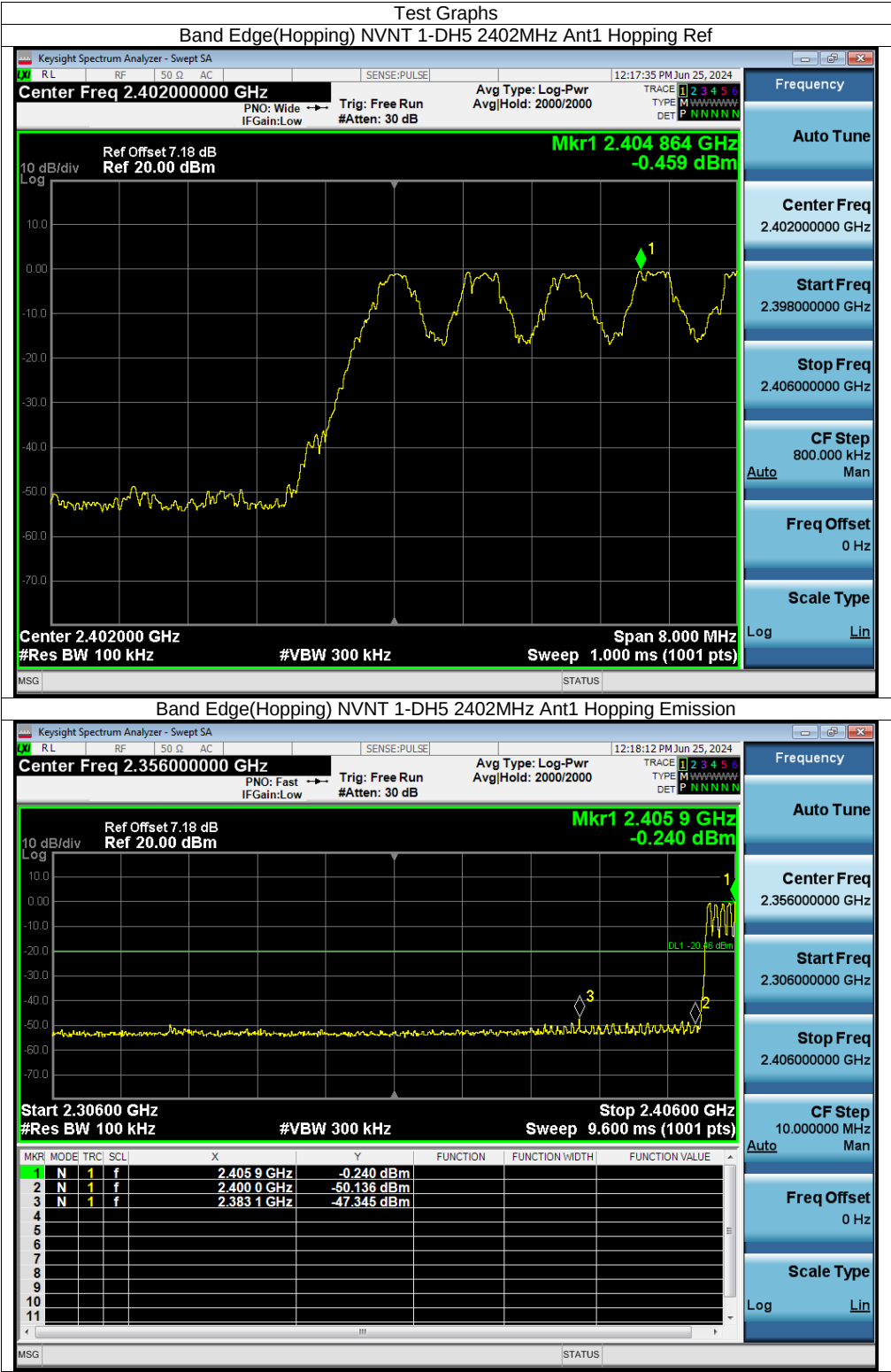




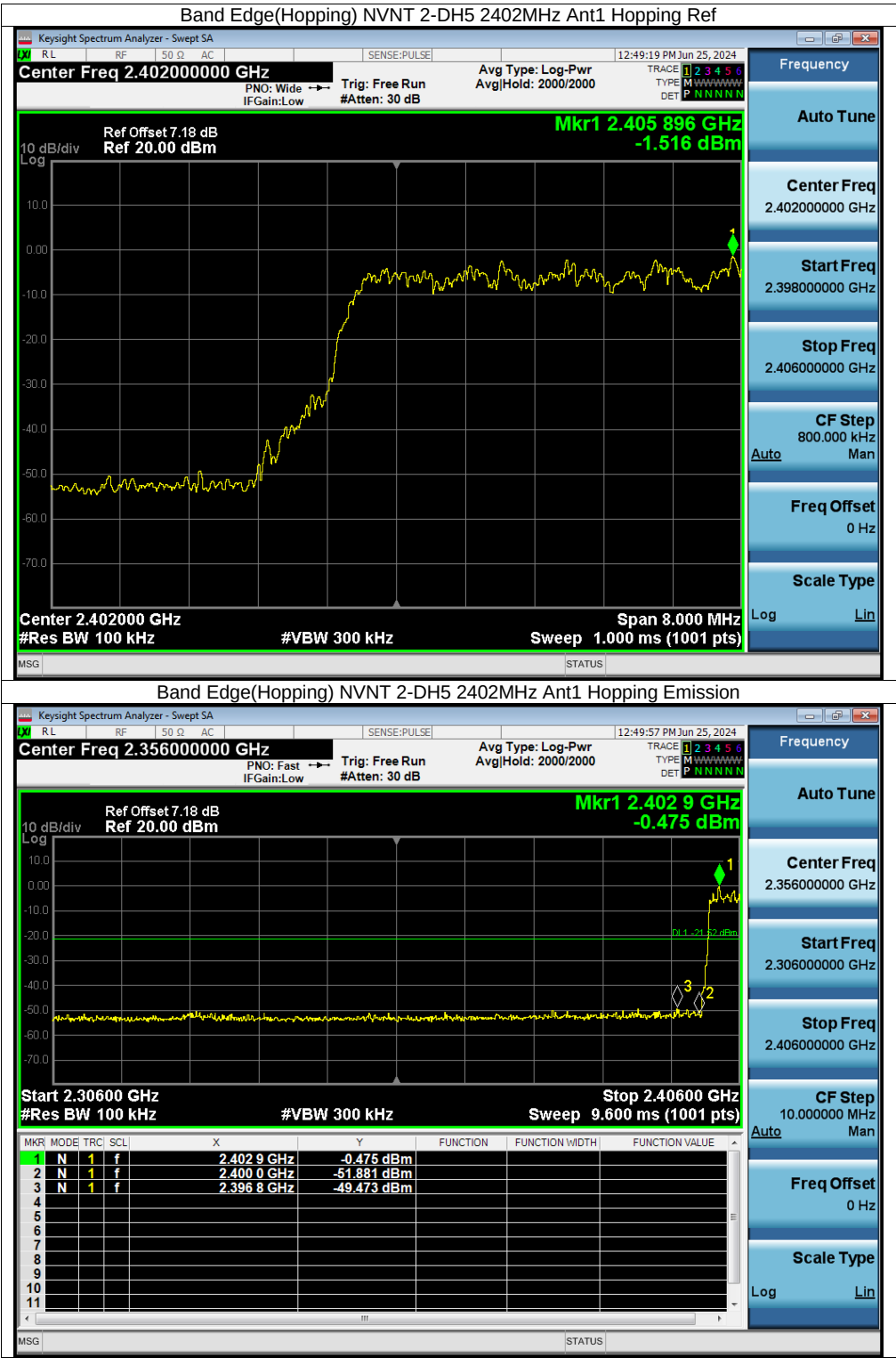


Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-46.881	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-45.671	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-47.954	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-44.905	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-49.534	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-48.292	-20	Pass











Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

KeySight Spectrum Analyzer - Swept SA

RLRF50QACSENSE:PULSE

01:58:47 PM Jun 25, 2024

Center Freq 2.356000000 GHz

PNO: Fast → Trig: Free Run

IFGain:Low #Atten: 30 dB

Avg Type: Log-Pwr

AvgHold: 2000/2000

TRACE 1 2 3 4 5 6

TYPE M W W W W W W W

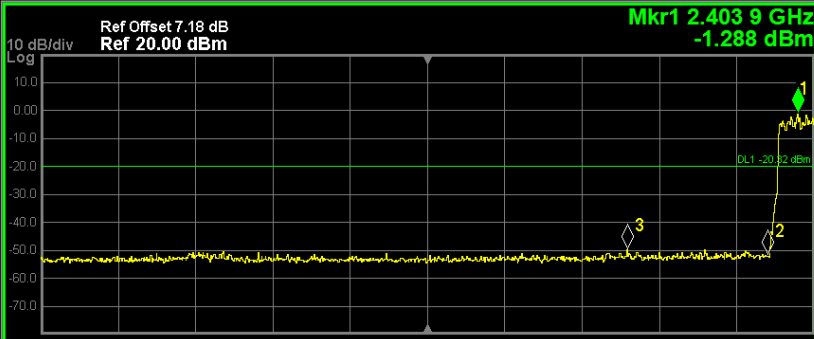
DET P N N N N N

Ref Offset 7.18 dB

Ref 20.00 dBm

Mkr1 2.403 9 GHz

-1.288 dBm



The plot shows a signal rising from -50 dBm to -10 dBm over a 9 MHz span. Three markers are placed at different frequencies: 2.4039 GHz, 2.4000 GHz, and 2.3818 GHz.

Start 2.30600 GHz

#Res BW 100 kHz

#VBW 300 kHz

Stop 2.40600 GHz

Sweep 9.600 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.403 9 GHz	-1.288 dBm			
2	N	1	f	2.400 0 GHz	-52.137 dBm			
3	N	1	f	2.381 8 GHz	-49.854 dBm			
4								
5								
6								
7								
8								
9								
10								
11								

MSG

STATUS

Frequency

Auto Tune

Center Freq 2.356000000 GHz

Start Freq 2.306000000 GHz

Stop Freq 2.406000000 GHz

CF Step 10.000000 MHz

Auto Man

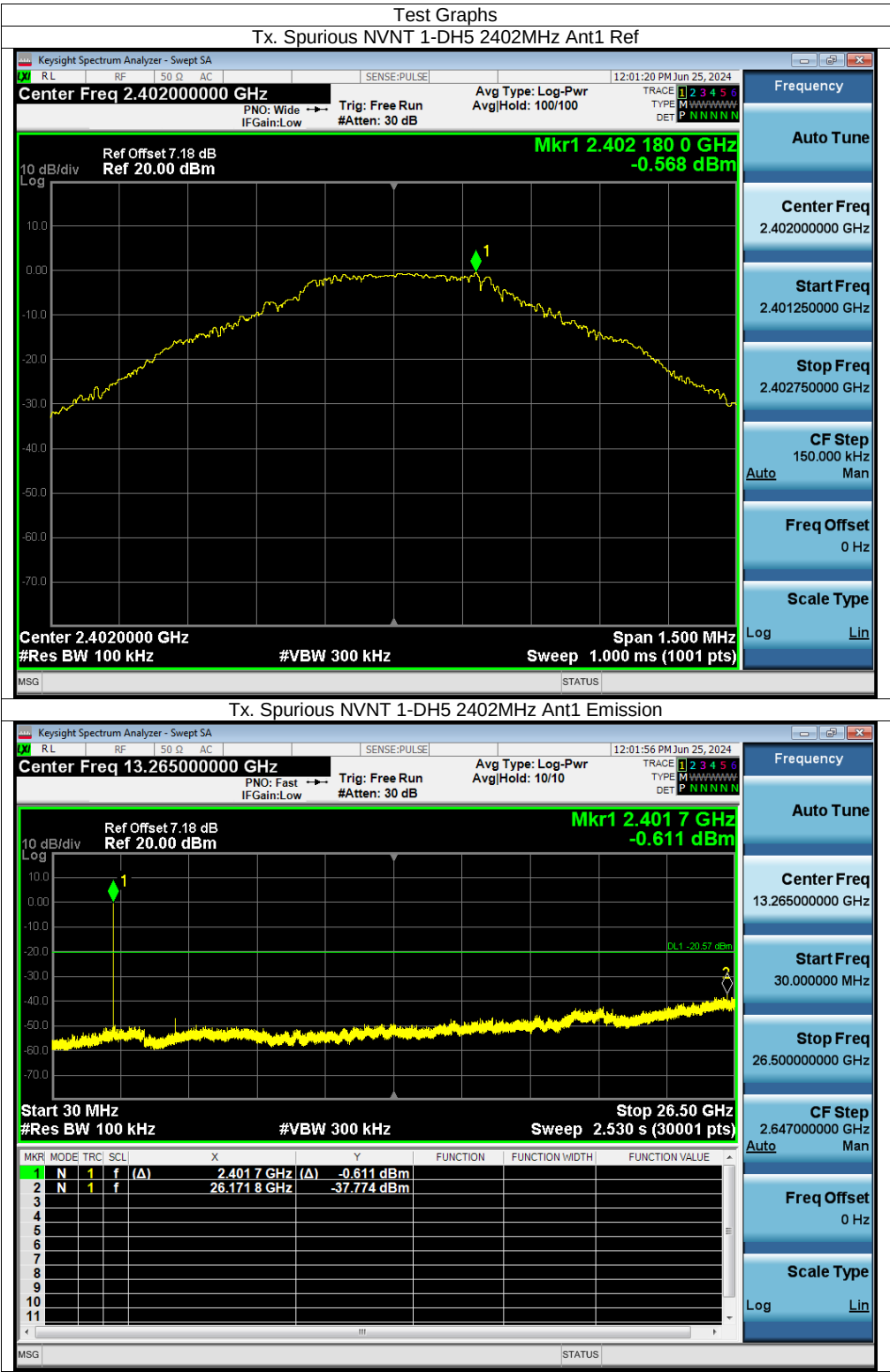
Freq Offset 0 Hz

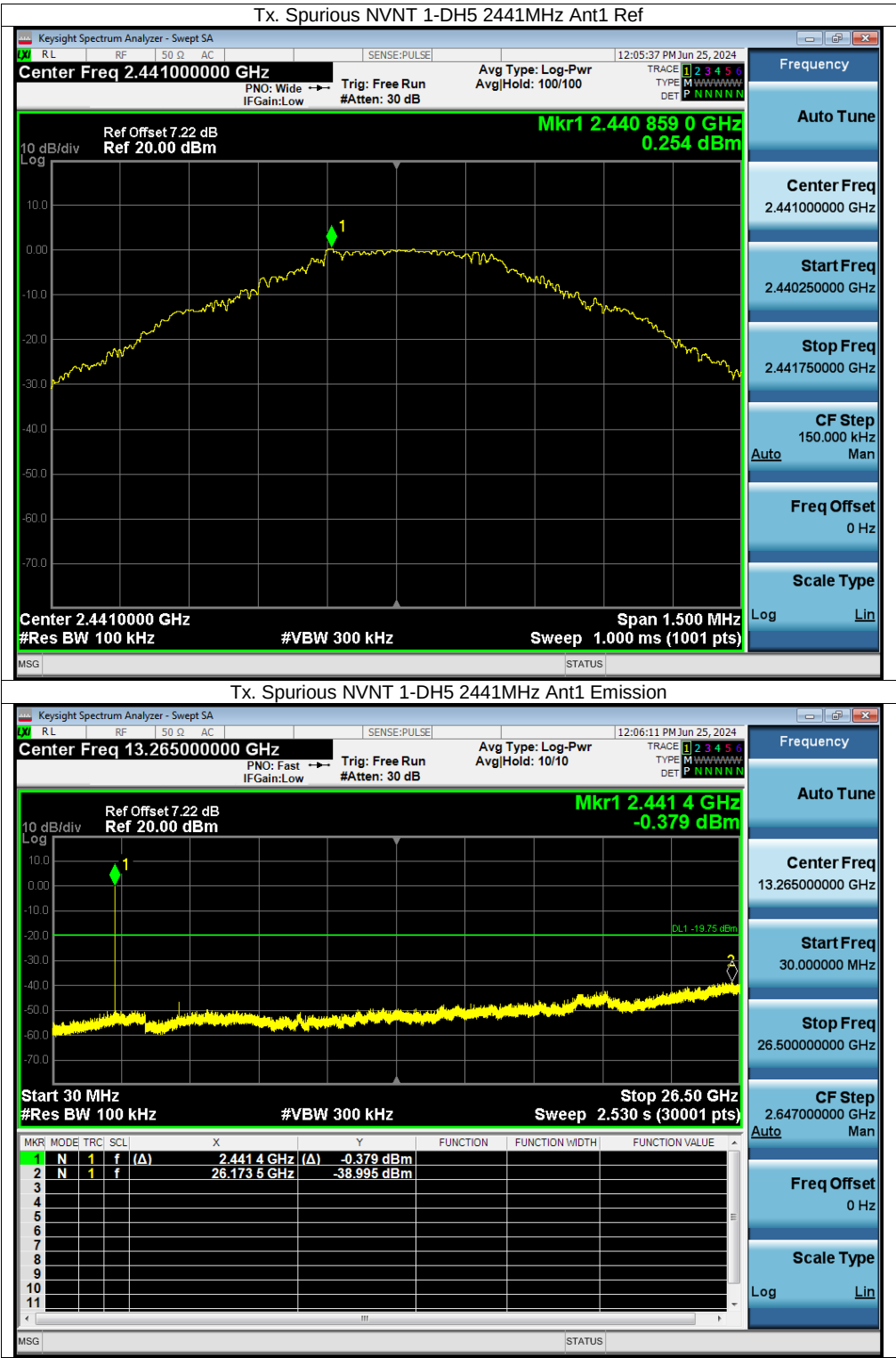
Scale Type Log Lin



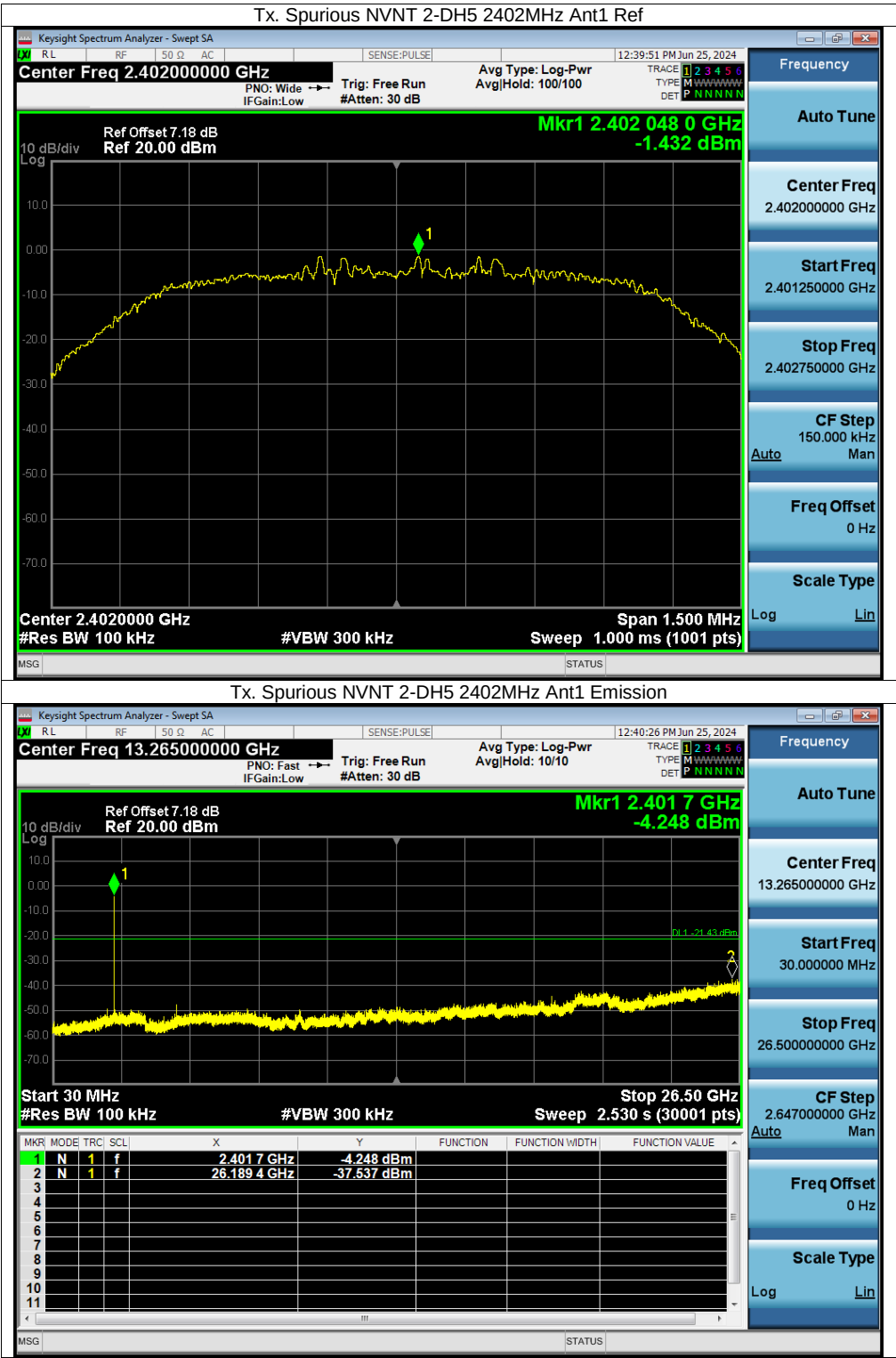
Conducted RF Spurious Emission

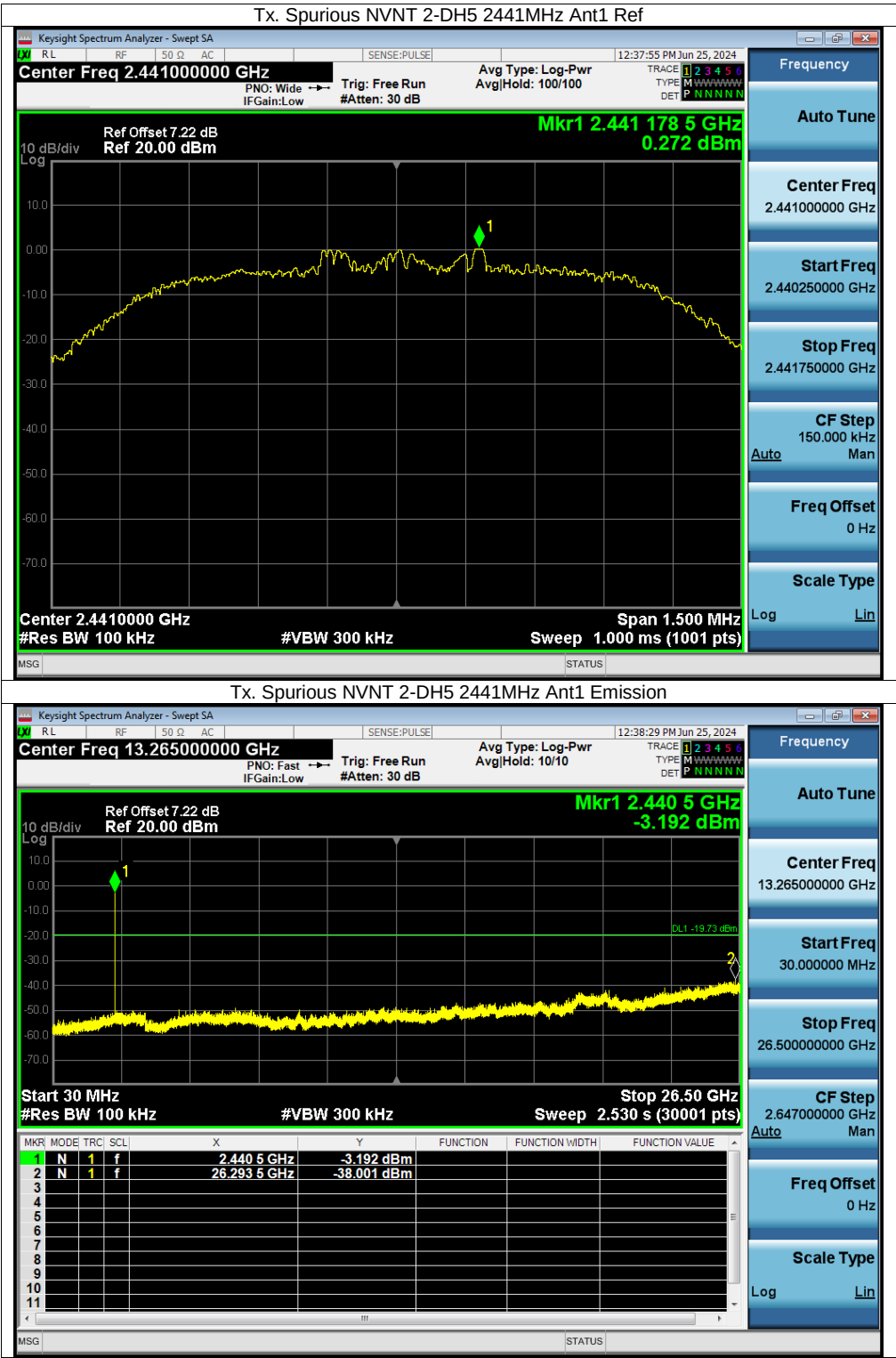
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-37.2	-20	Pass
NVNT	1-DH5	2441	Ant1	-39.25	-20	Pass
NVNT	1-DH5	2480	Ant1	-35.35	-20	Pass
NVNT	2-DH5	2402	Ant1	-36.11	-20	Pass
NVNT	2-DH5	2441	Ant1	-38.27	-20	Pass
NVNT	2-DH5	2480	Ant1	-38.08	-20	Pass
NVNT	3-DH5	2402	Ant1	-37.46	-20	Pass
NVNT	3-DH5	2441	Ant1	-37.71	-20	Pass
NVNT	3-DH5	2480	Ant1	-37.82	-20	Pass

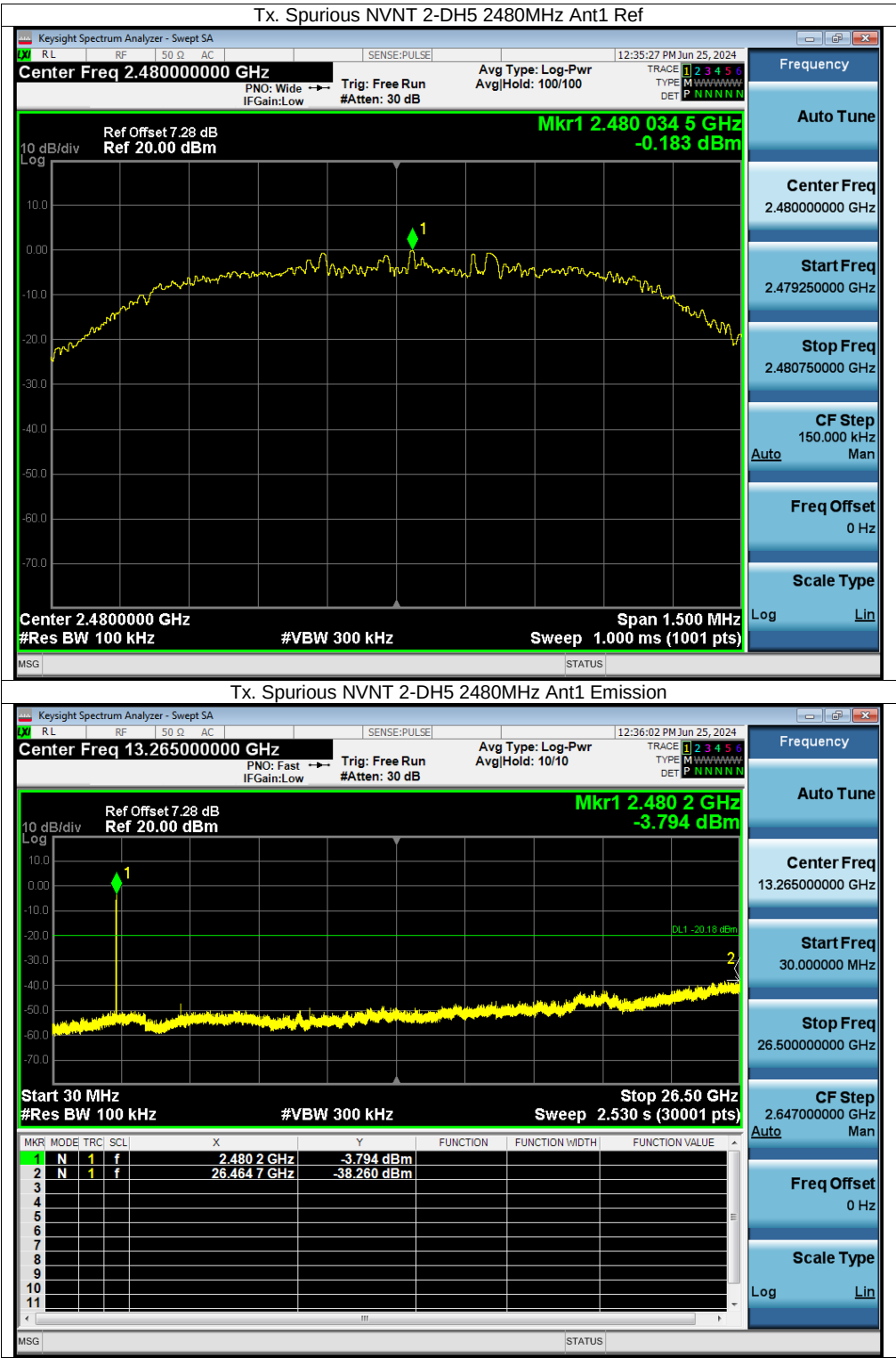




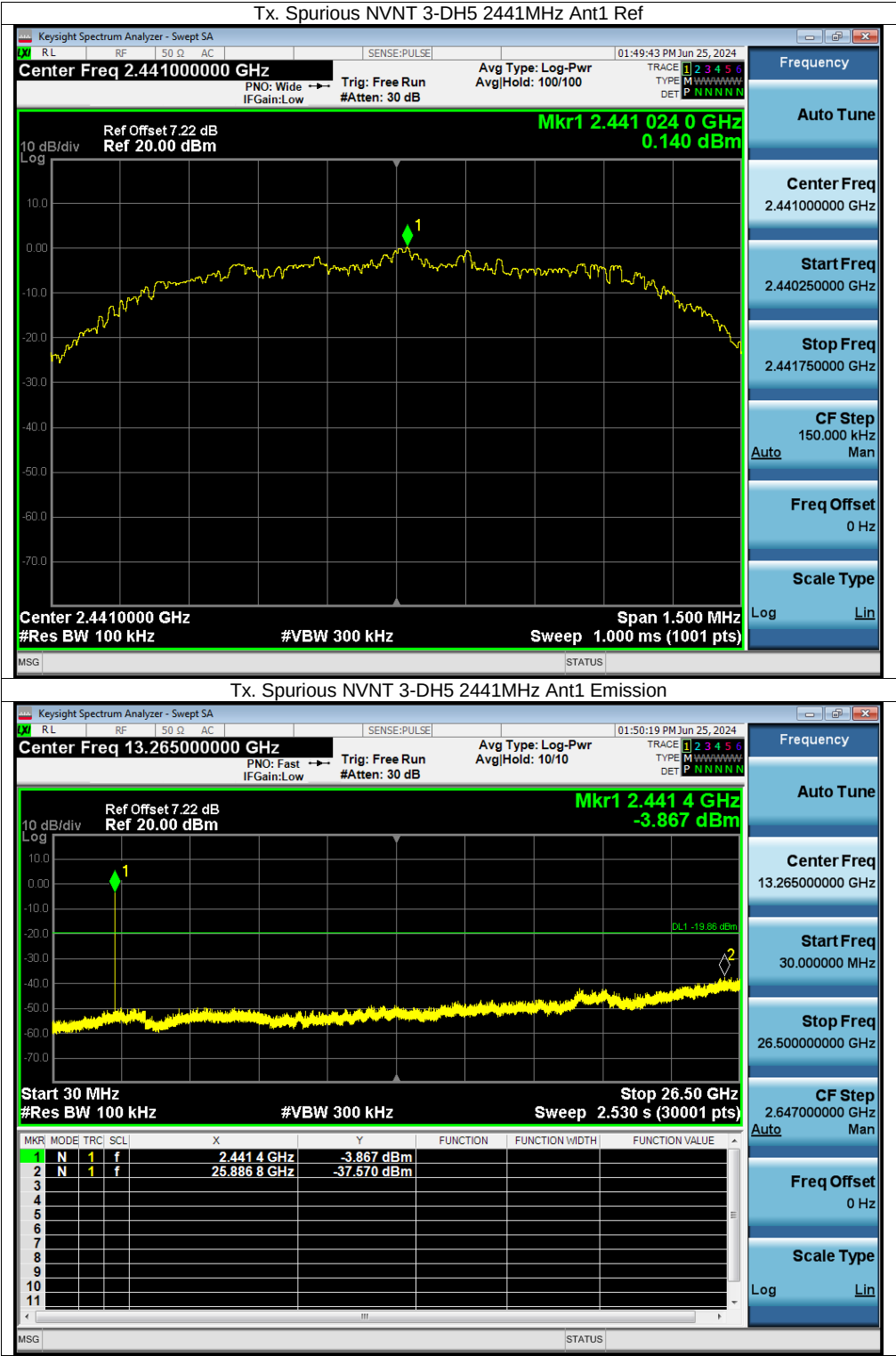


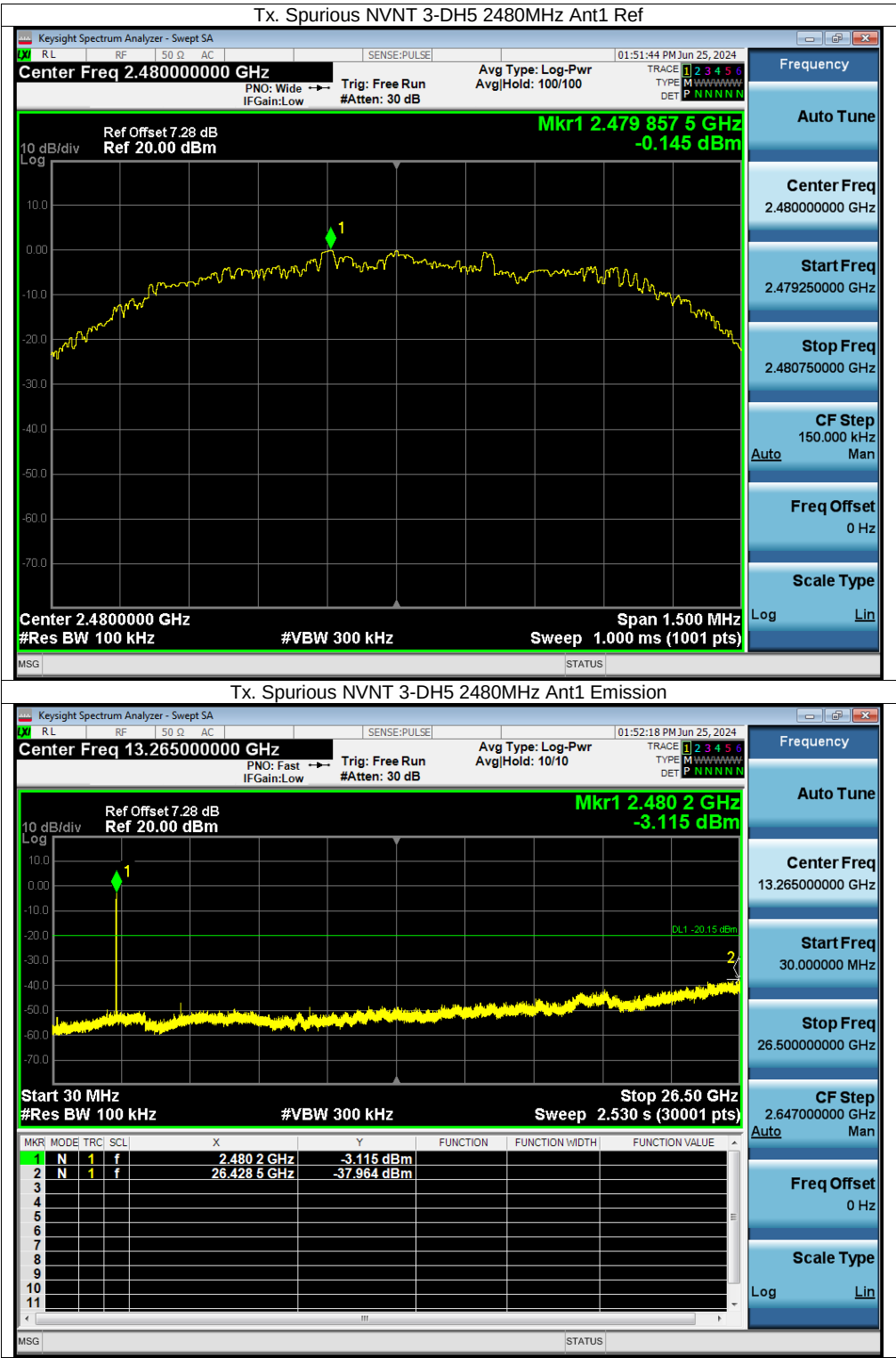










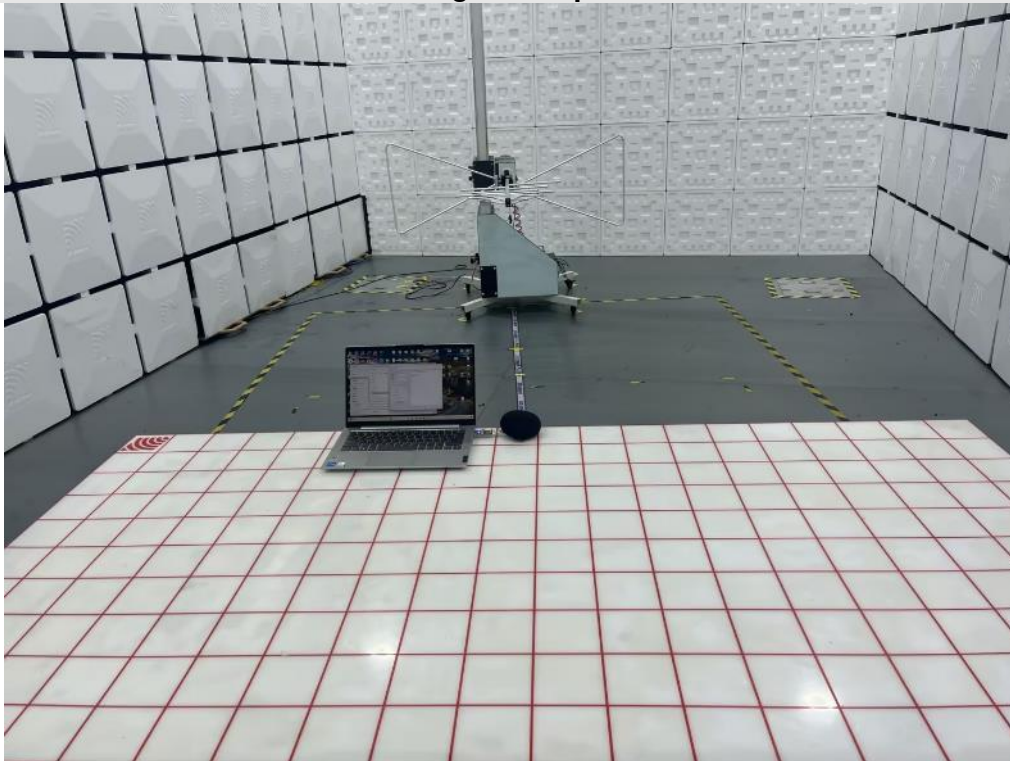


APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION

AC Power Line Conducted Emission



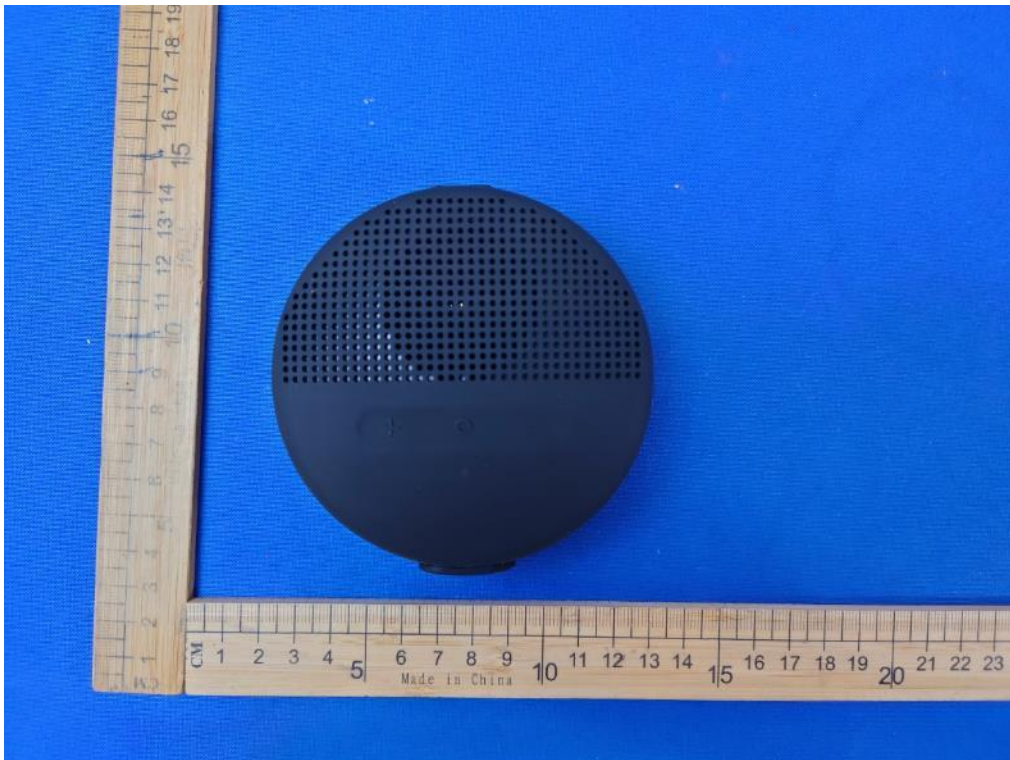
Radiated Band edge and Spurious Emission



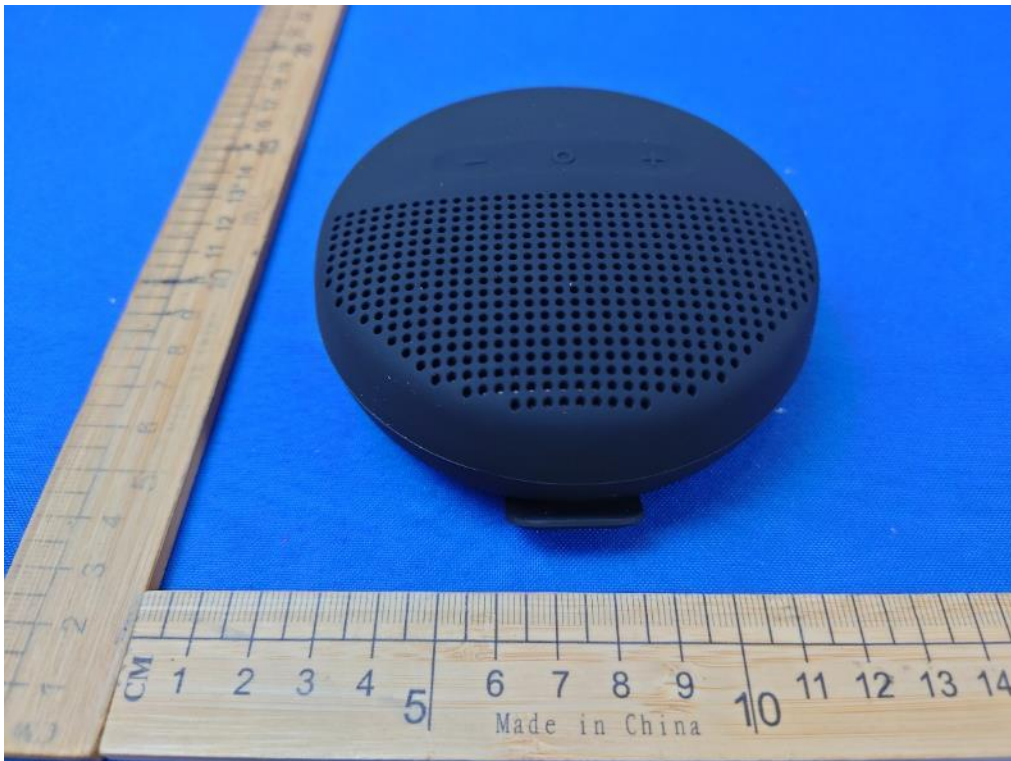


APPENDIX: PHOTOGRAPHS OF THE EUT

External



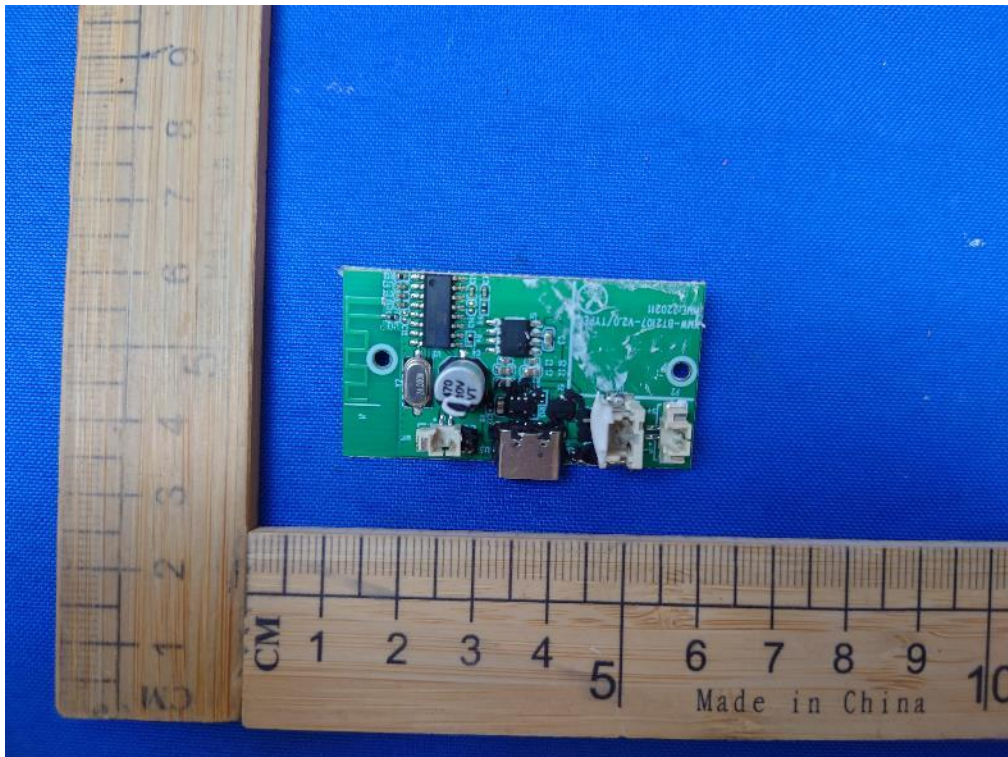


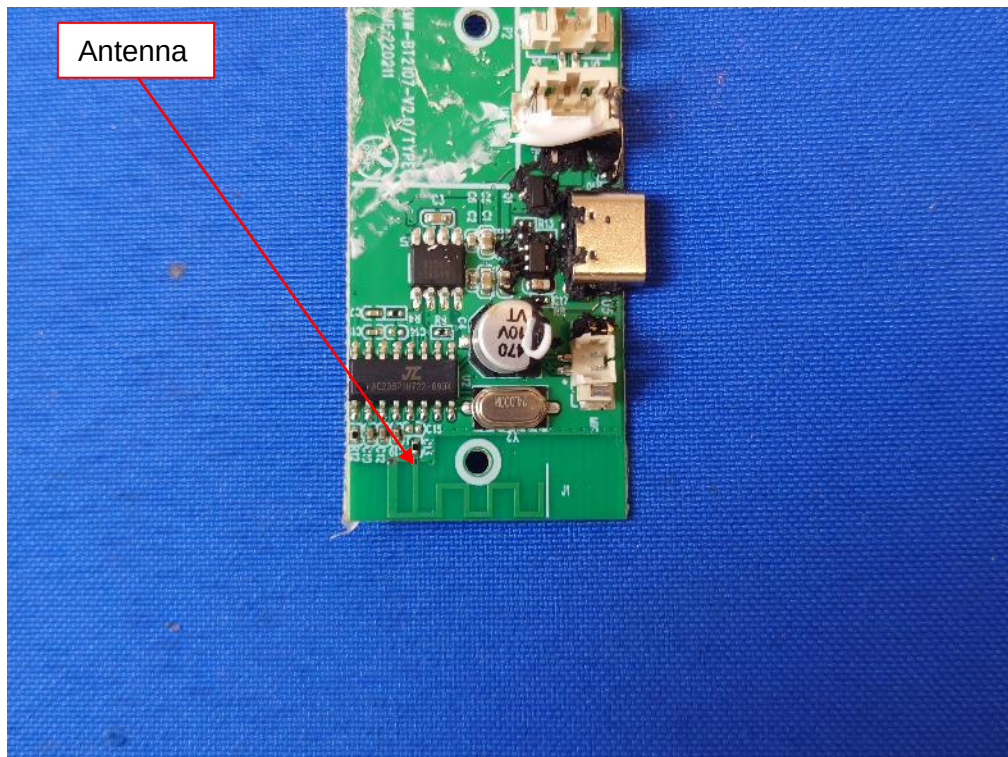
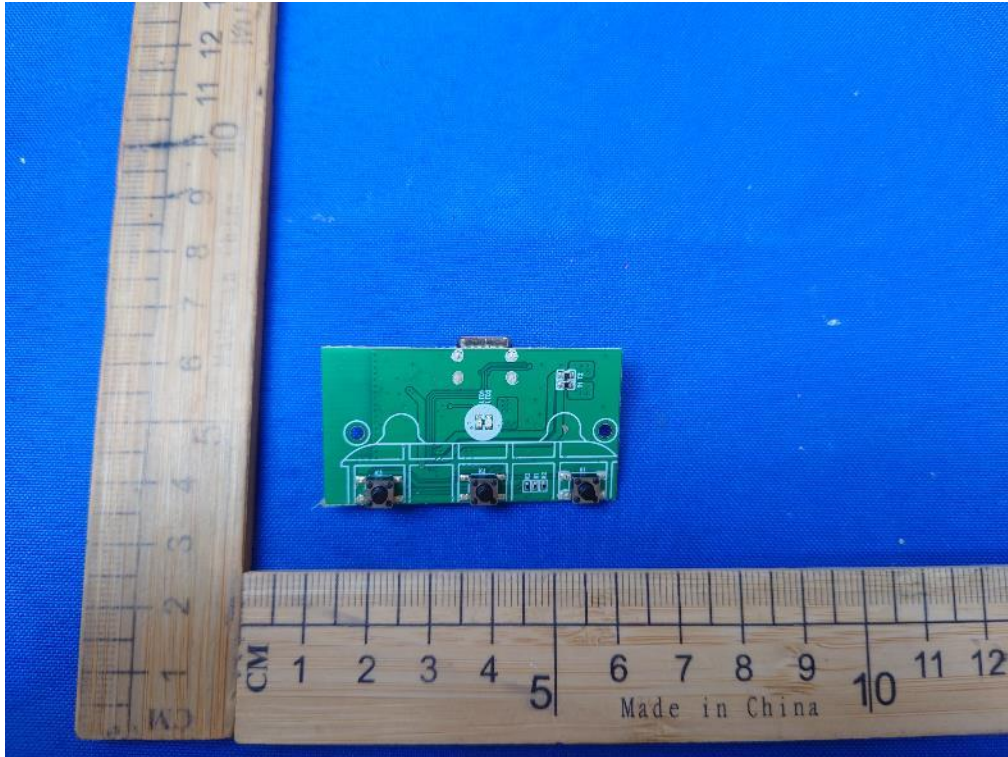




Internal







END OF REPORT