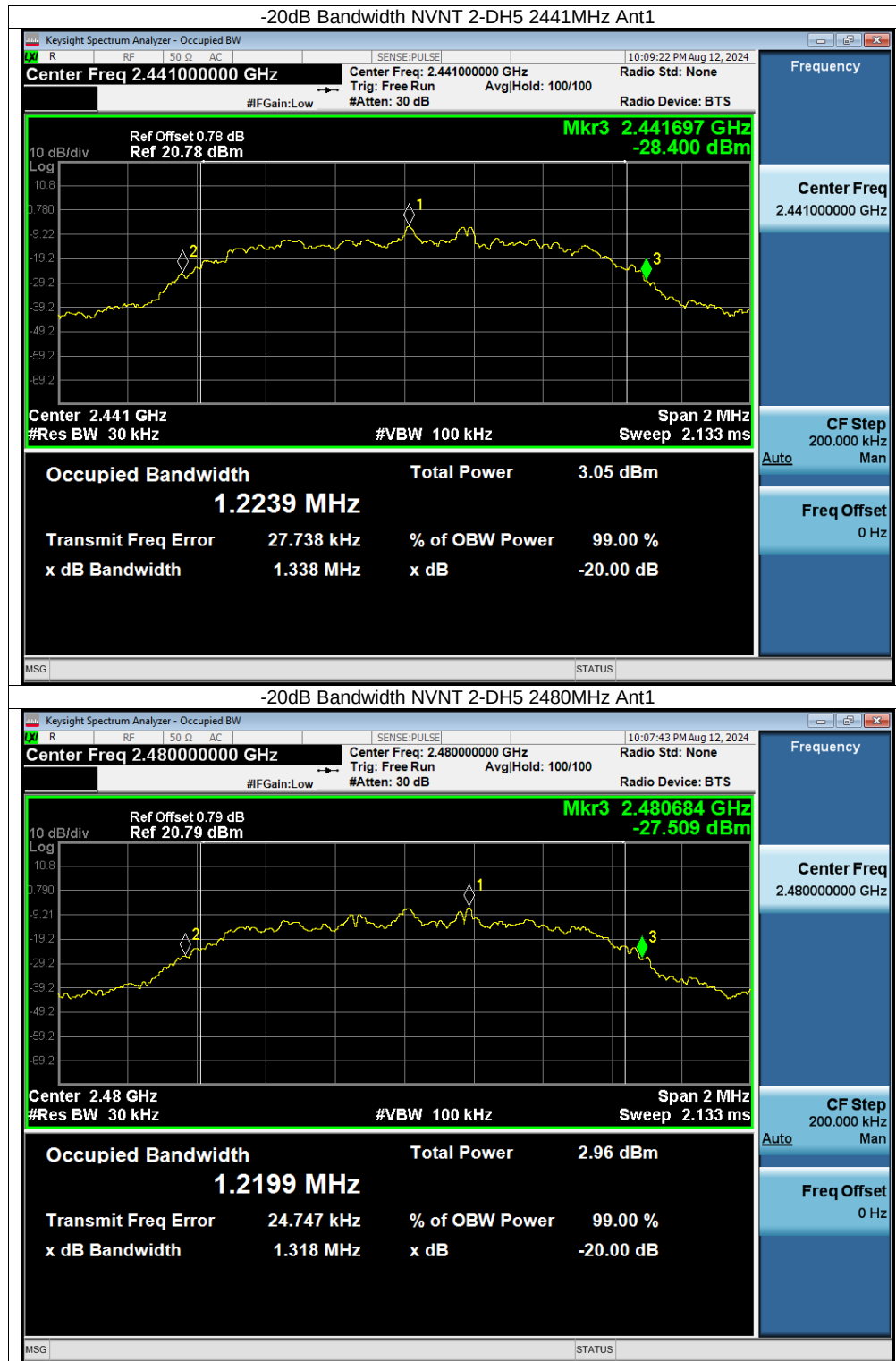
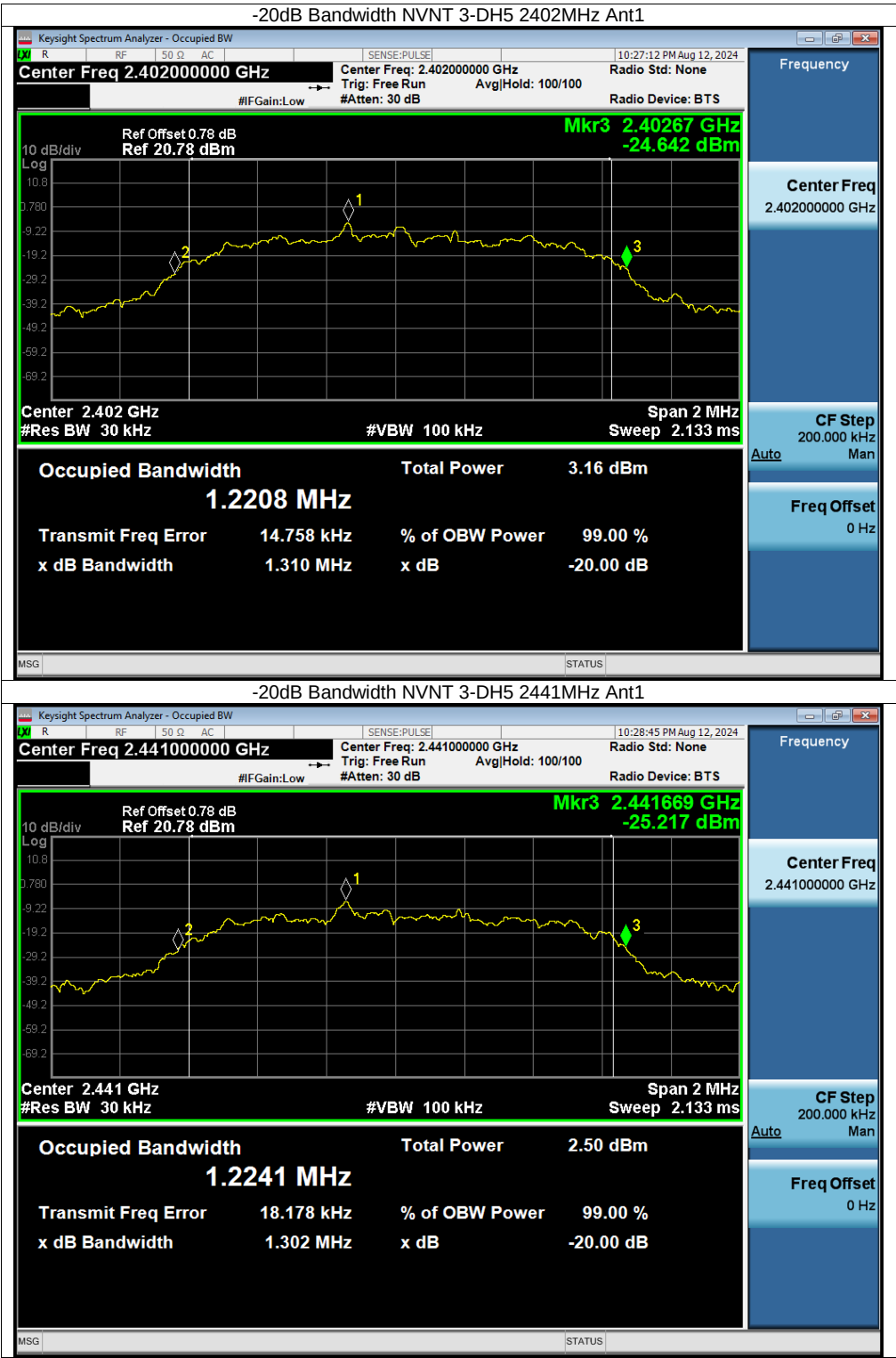


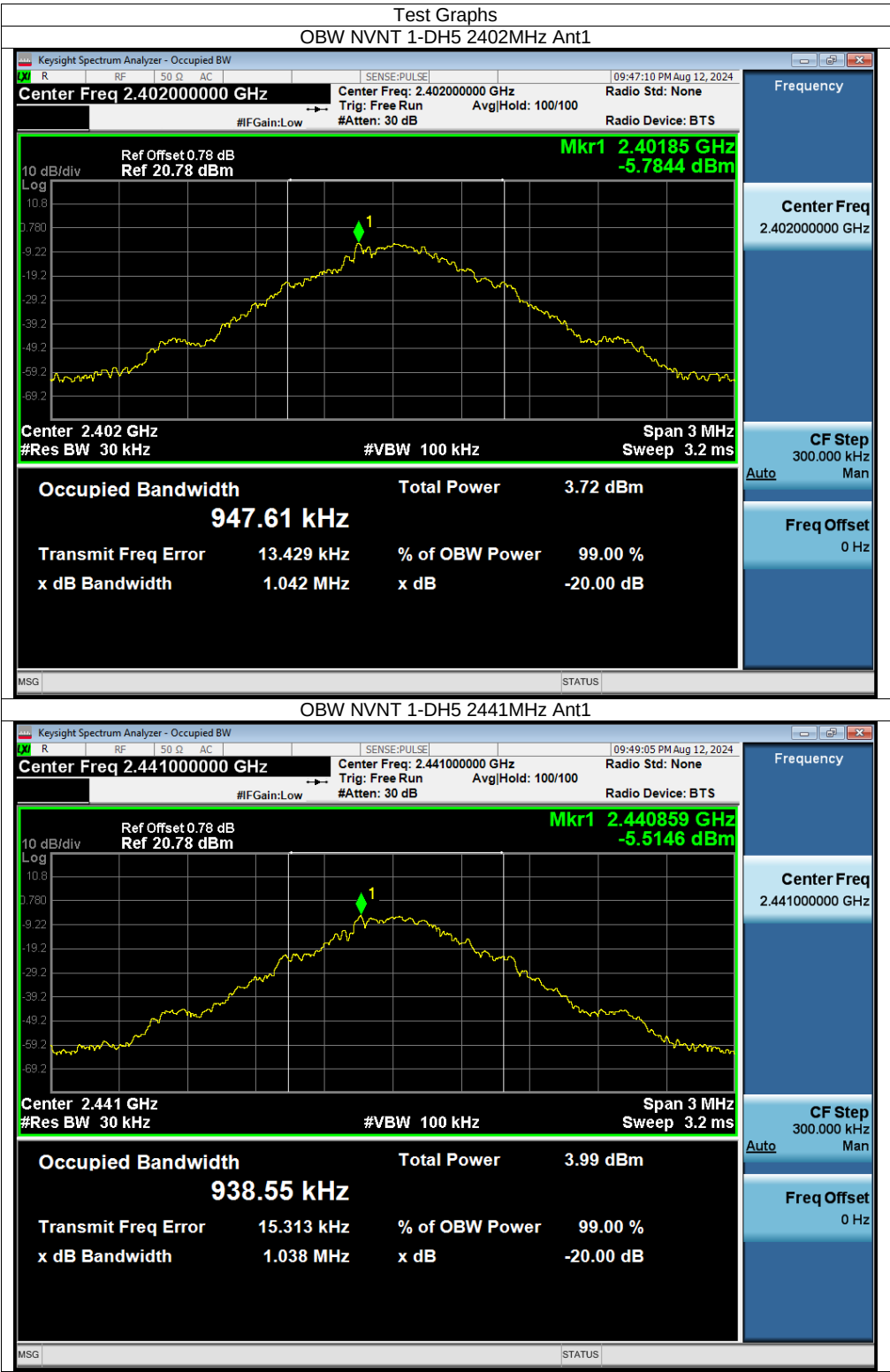




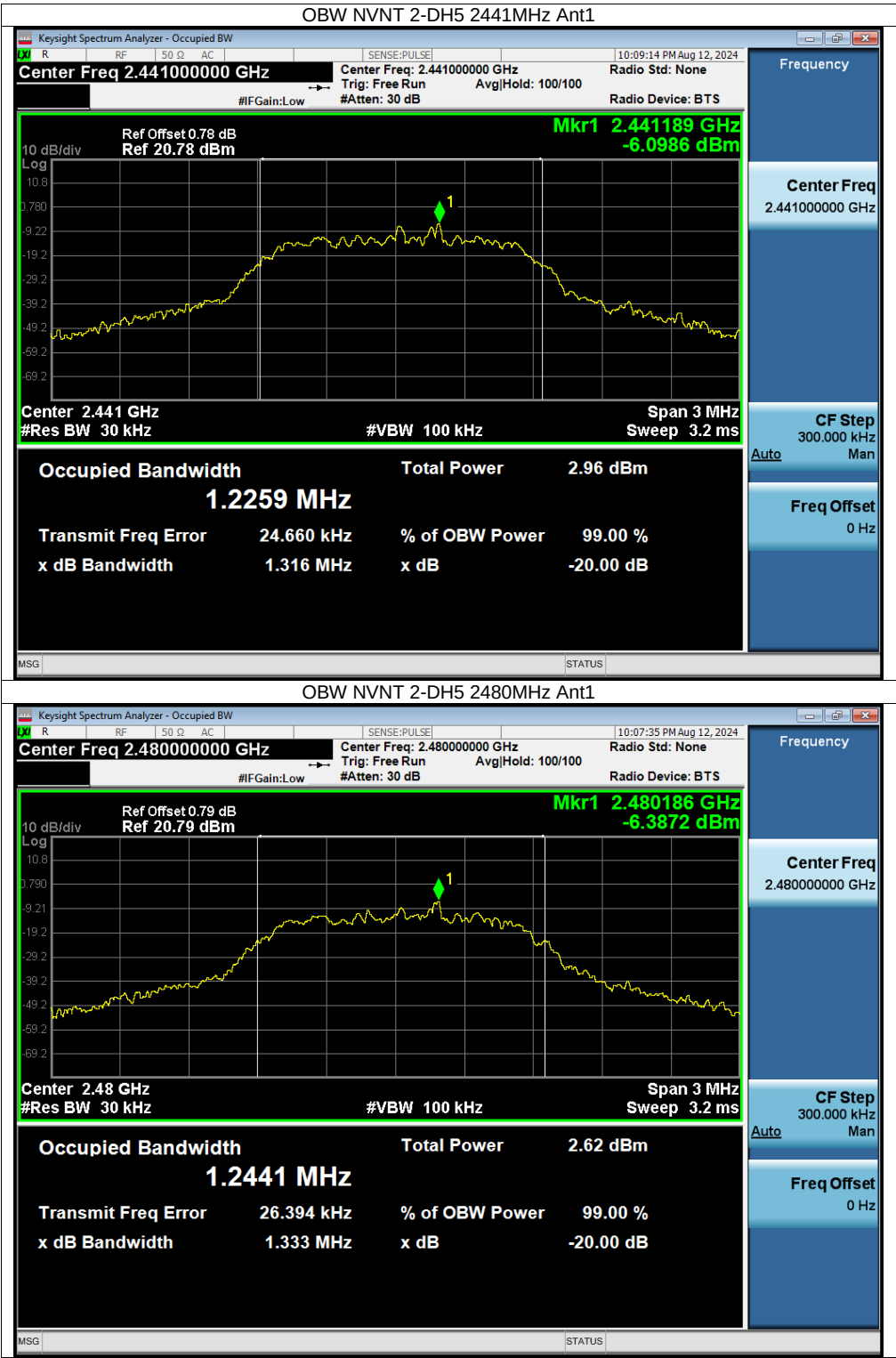


Occupied Channel Bandwidth

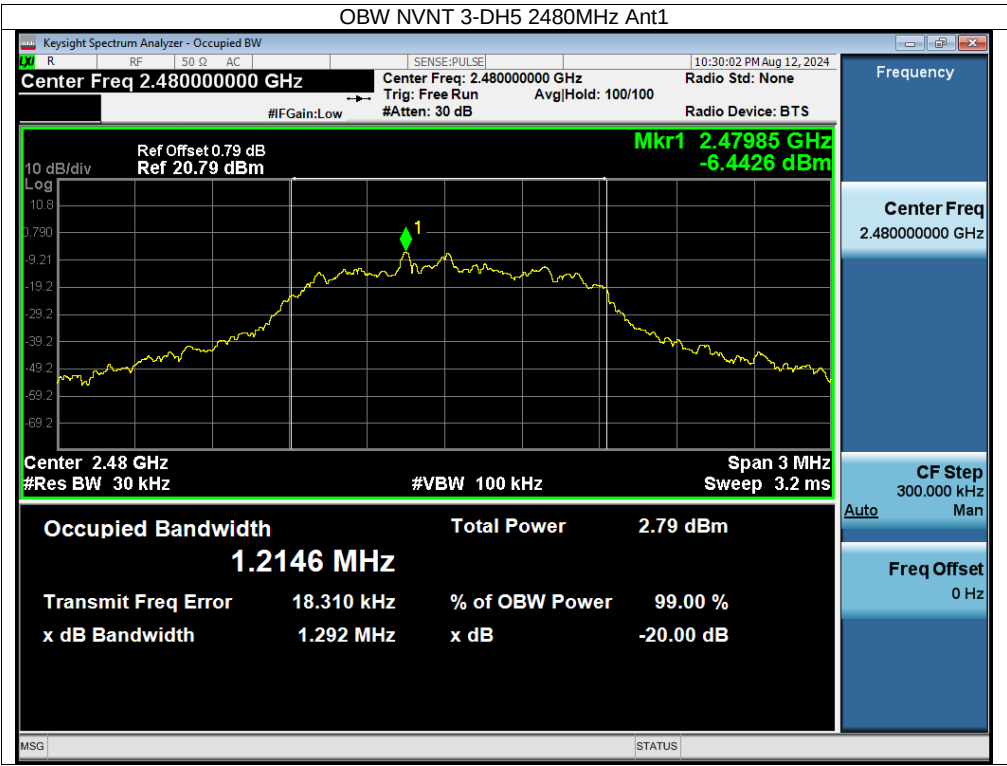
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.948
NVNT	1-DH5	2441	Ant1	0.939
NVNT	1-DH5	2480	Ant1	0.964
NVNT	2-DH5	2402	Ant1	1.22
NVNT	2-DH5	2441	Ant1	1.226
NVNT	2-DH5	2480	Ant1	1.244
NVNT	3-DH5	2402	Ant1	1.226
NVNT	3-DH5	2441	Ant1	1.225
NVNT	3-DH5	2480	Ant1	1.215





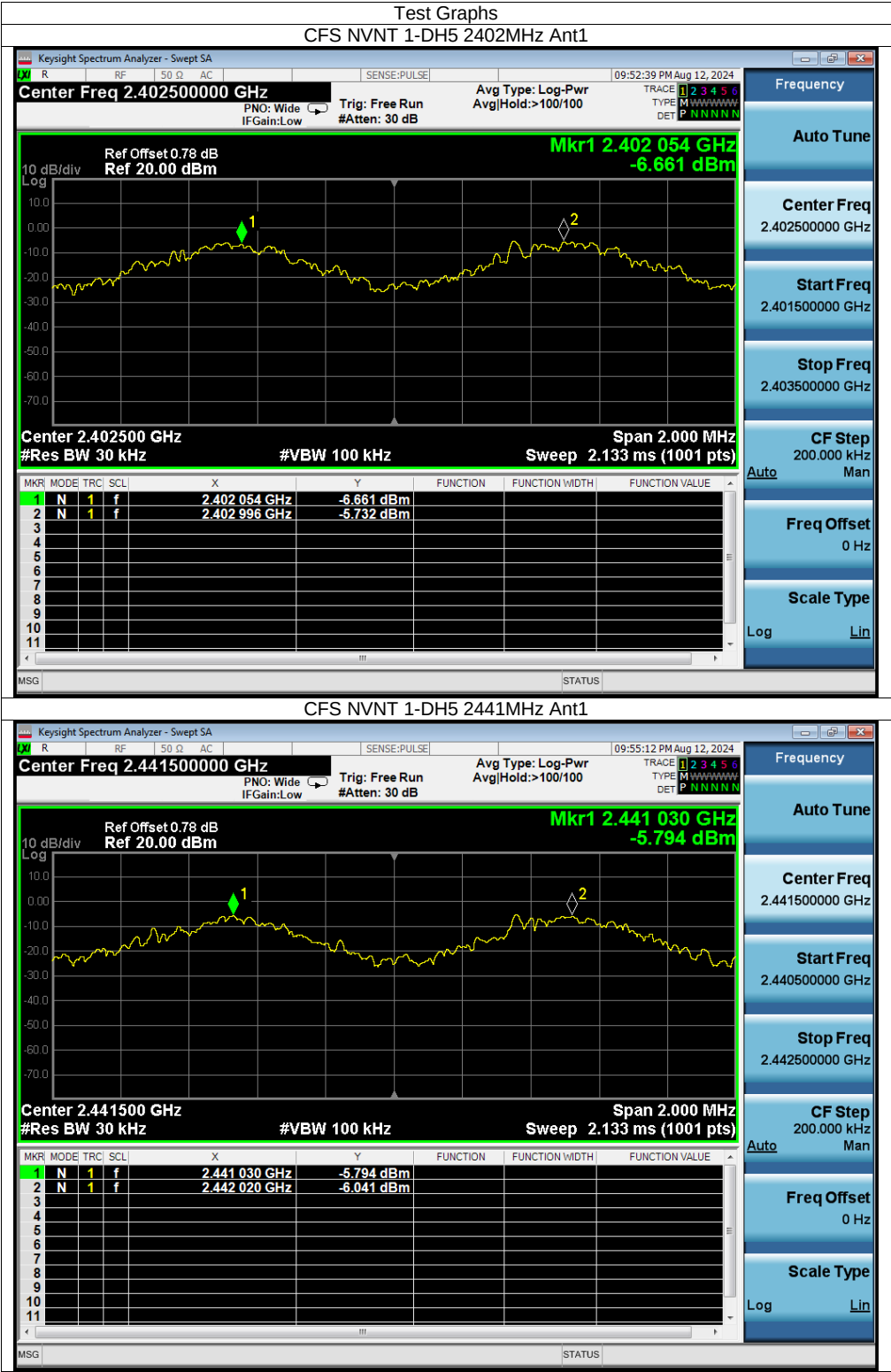


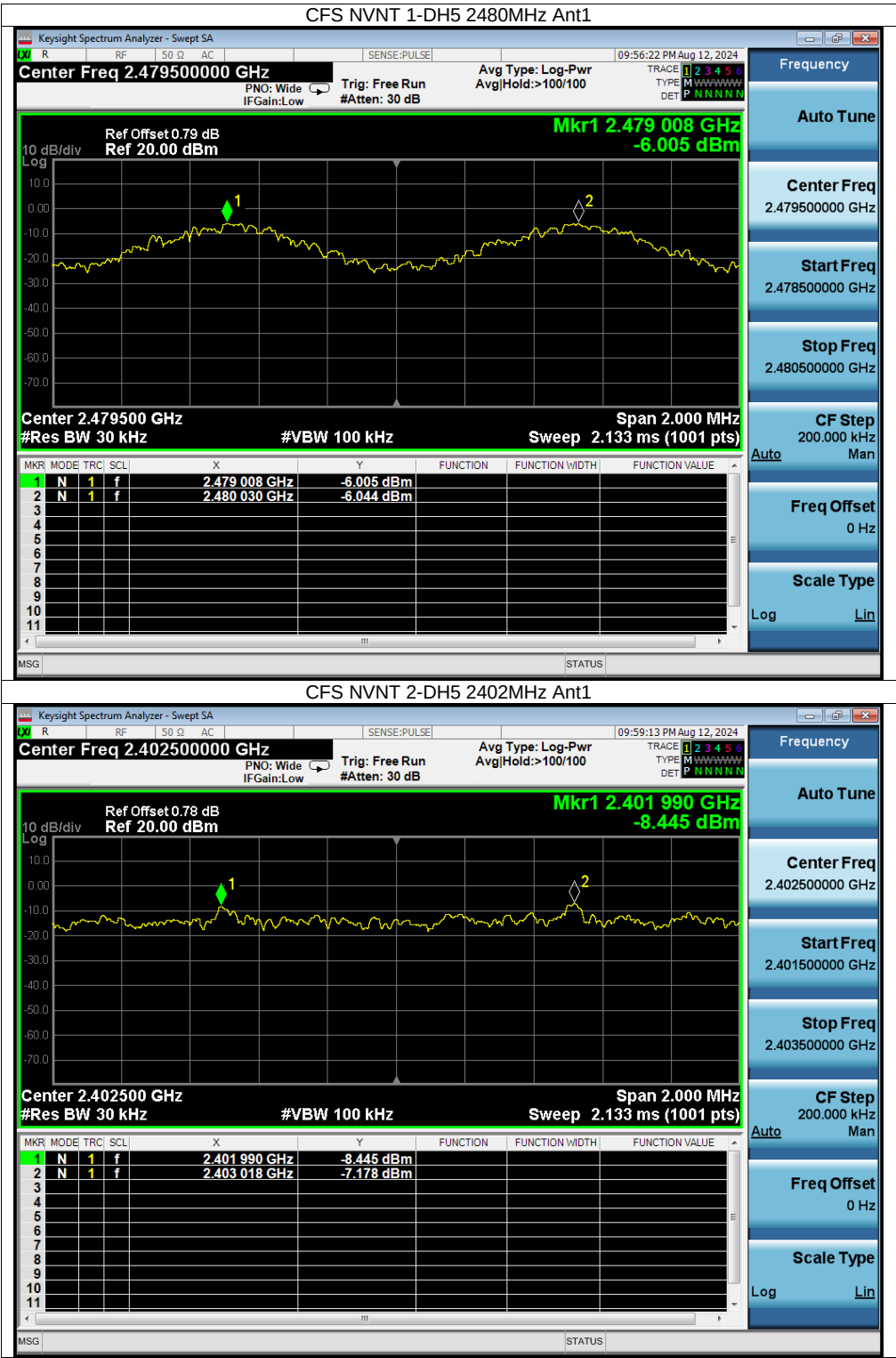


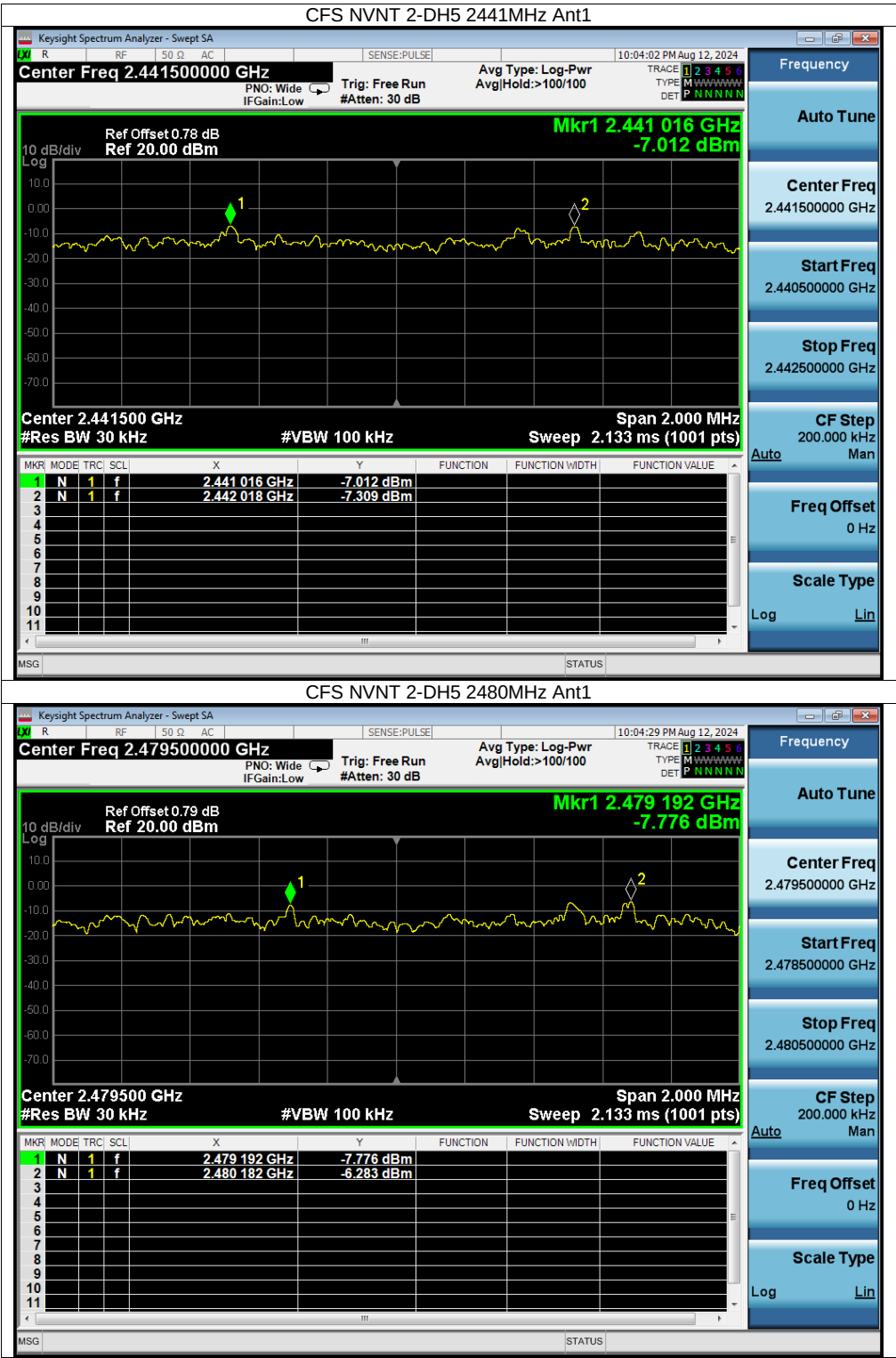


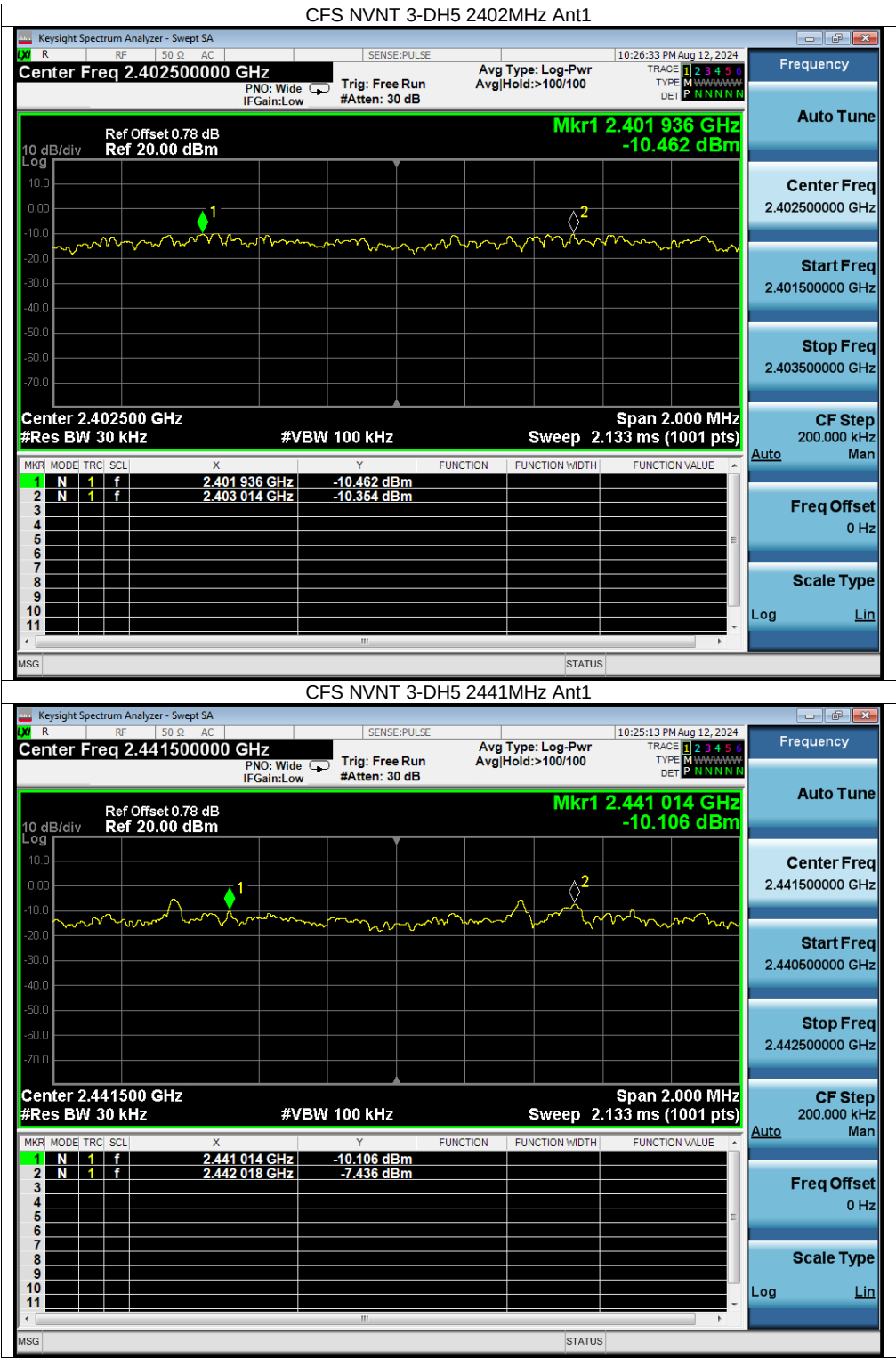
Carrier Frequencies Separation

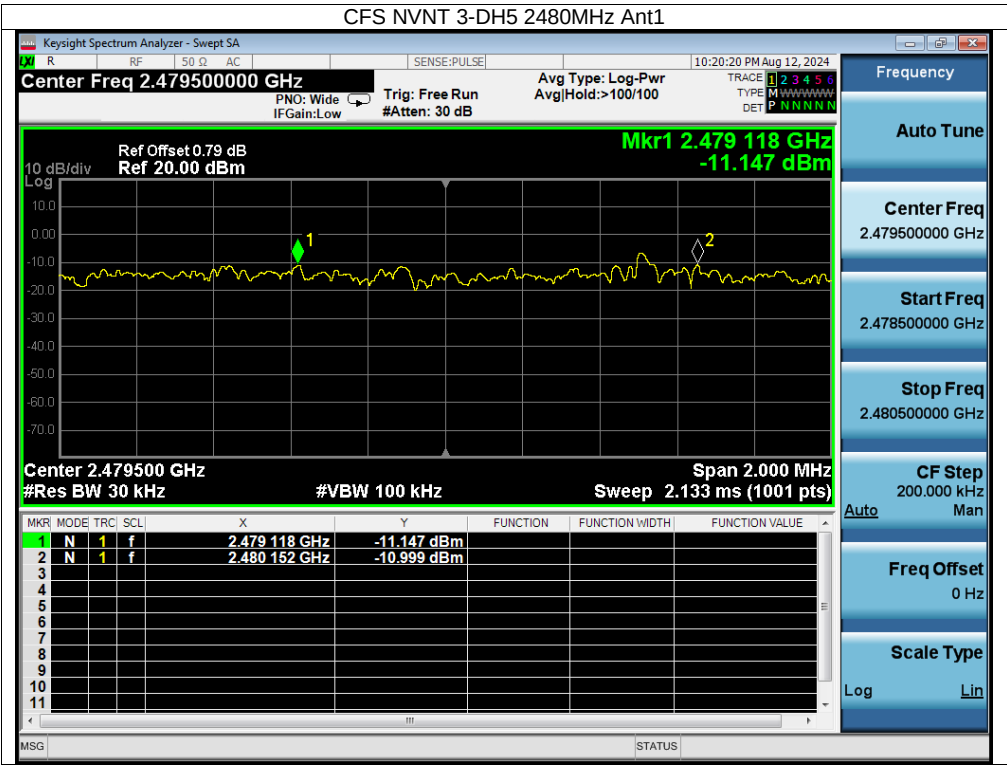
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.054	2402.996	0.942	0.693	Pass
NVNT	1-DH5	Ant1	2441.03	2442.02	0.99	0.7	Pass
NVNT	1-DH5	Ant1	2479.008	2480.03	1.022	0.707	Pass
NVNT	2-DH5	Ant1	2401.99	2403.018	1.028	0.025	Pass
NVNT	2-DH5	Ant1	2441.016	2442.018	1.002	0.025	Pass
NVNT	2-DH5	Ant1	2479.192	2480.182	0.99	0.025	Pass
NVNT	3-DH5	Ant1	2401.936	2403.014	1.078	0.025	Pass
NVNT	3-DH5	Ant1	2441.014	2442.018	1.004	0.025	Pass
NVNT	3-DH5	Ant1	2479.118	2480.152	1.034	0.025	Pass





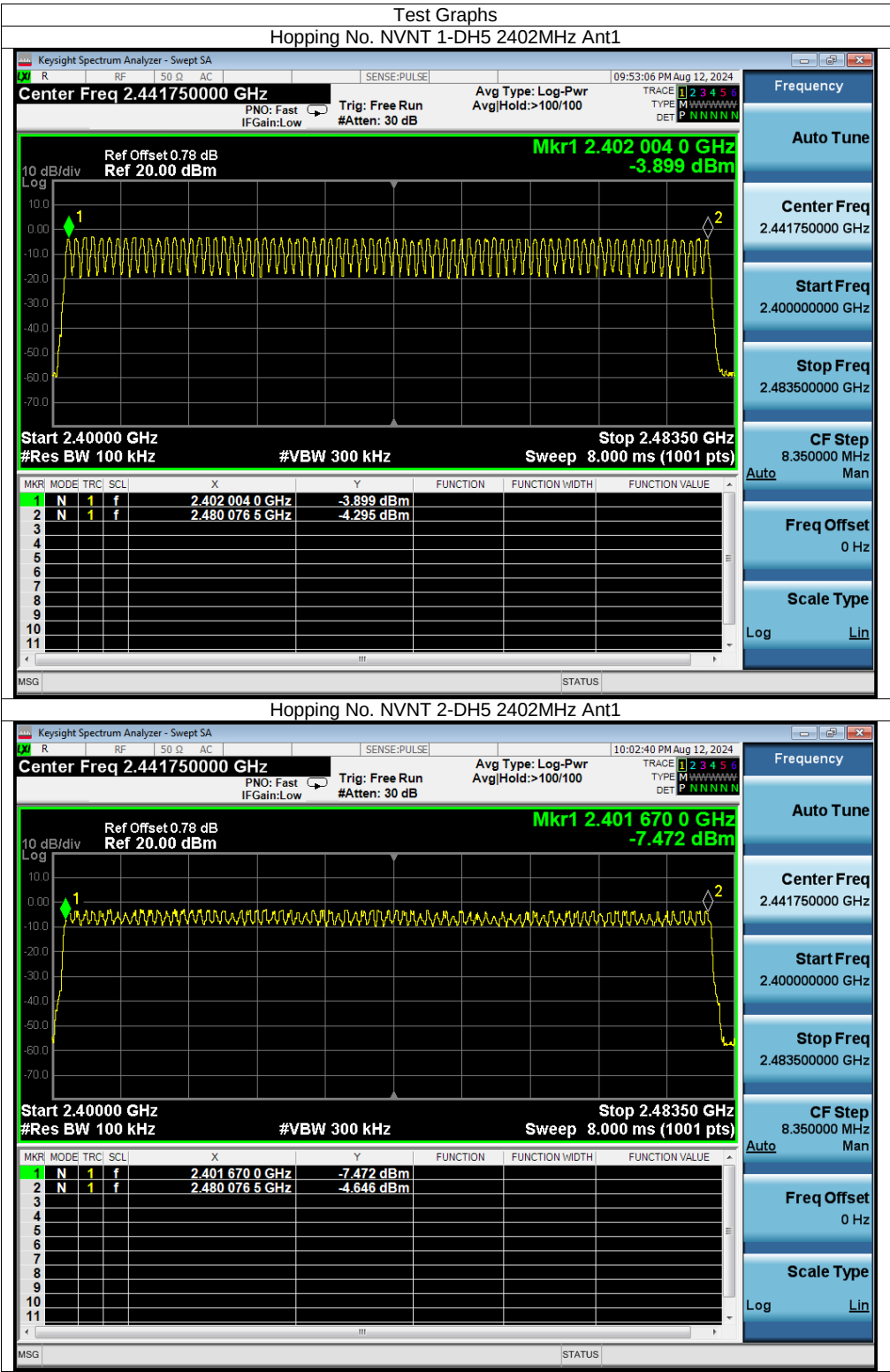


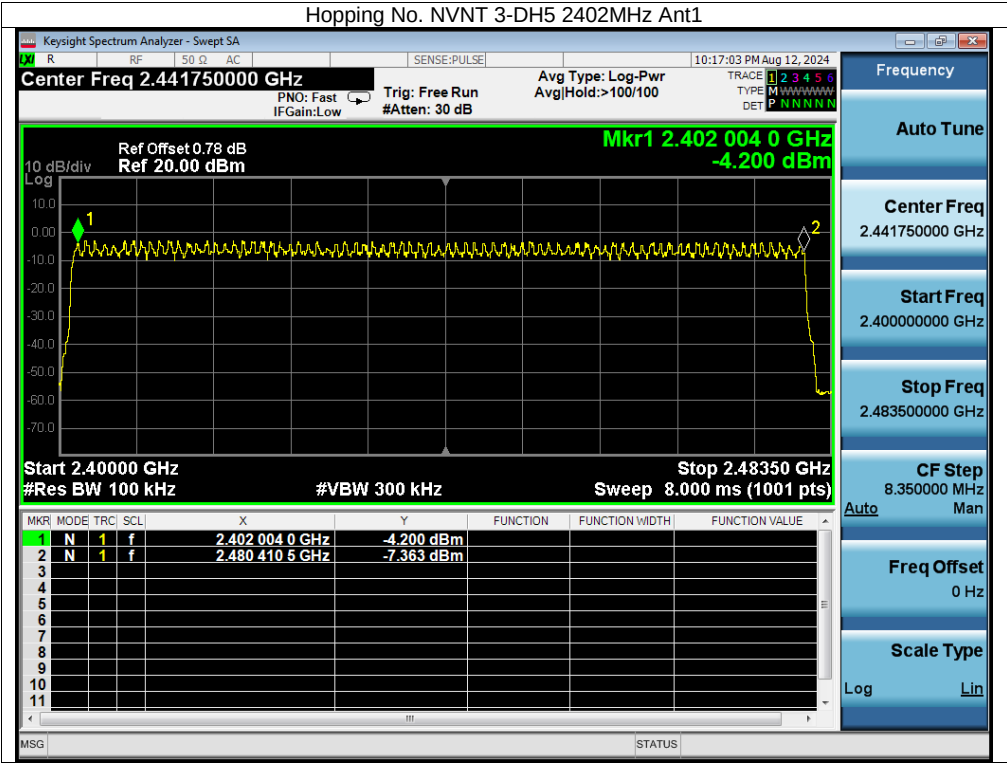




Number of Hopping Channel

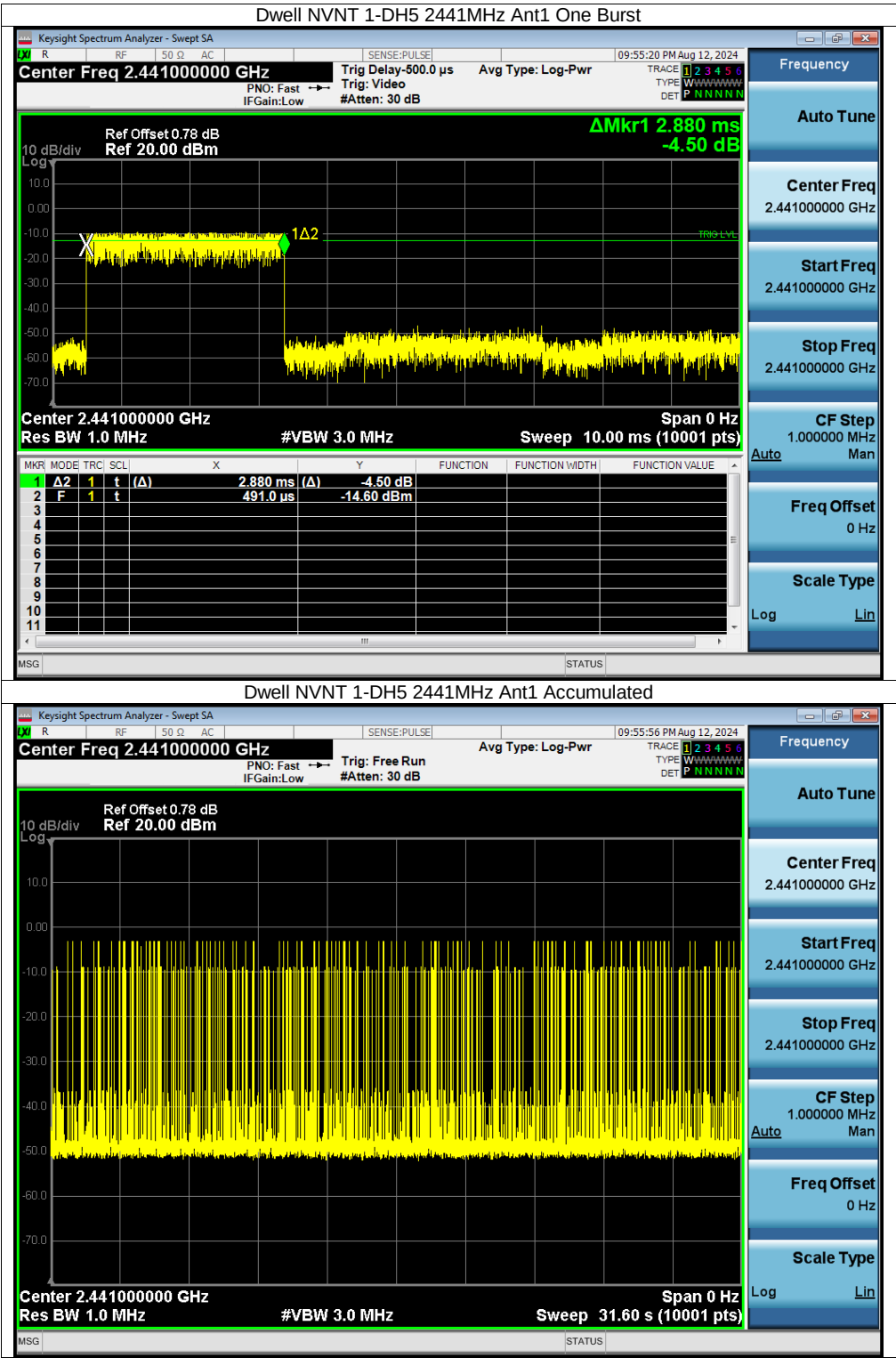
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

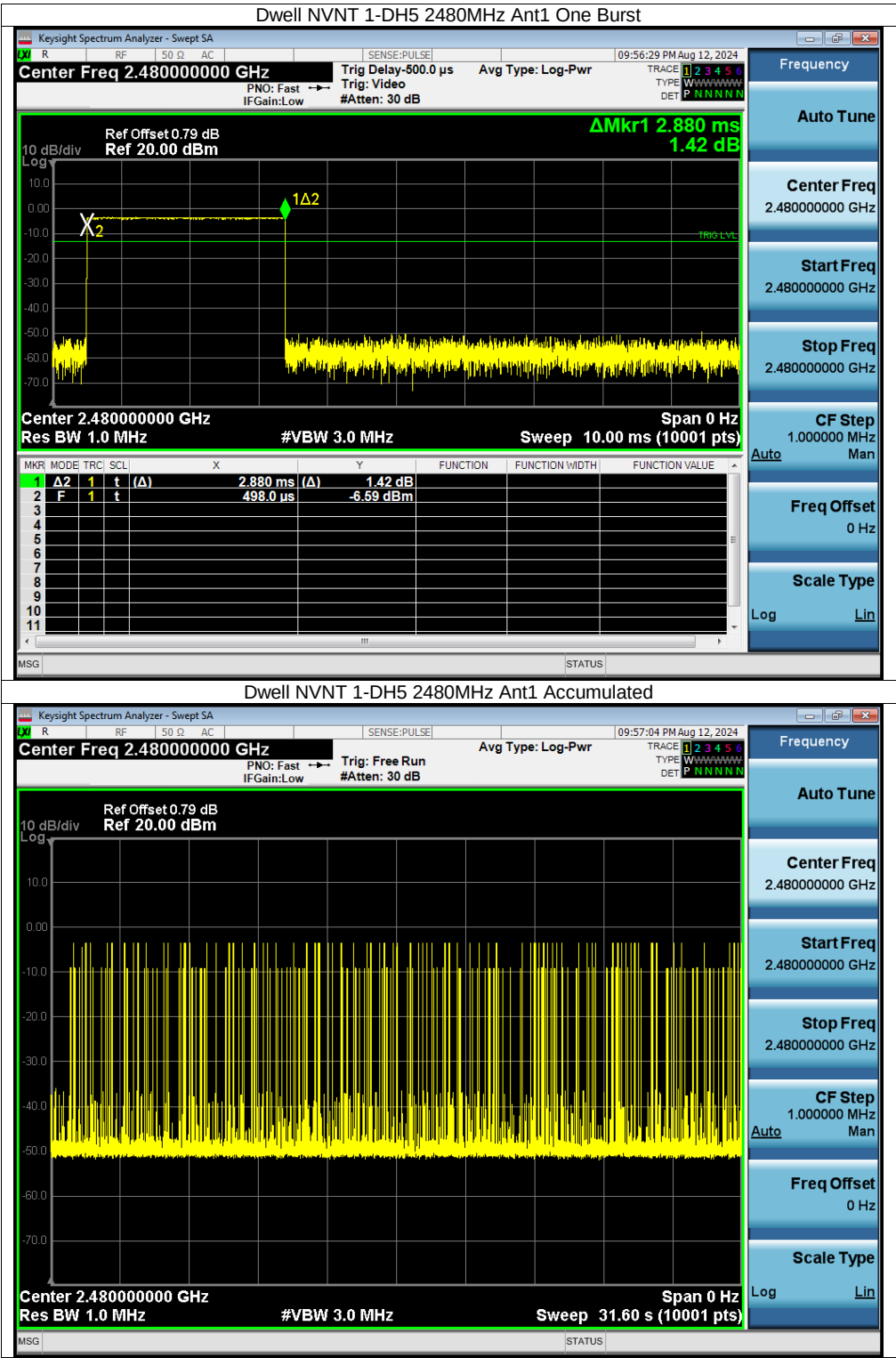


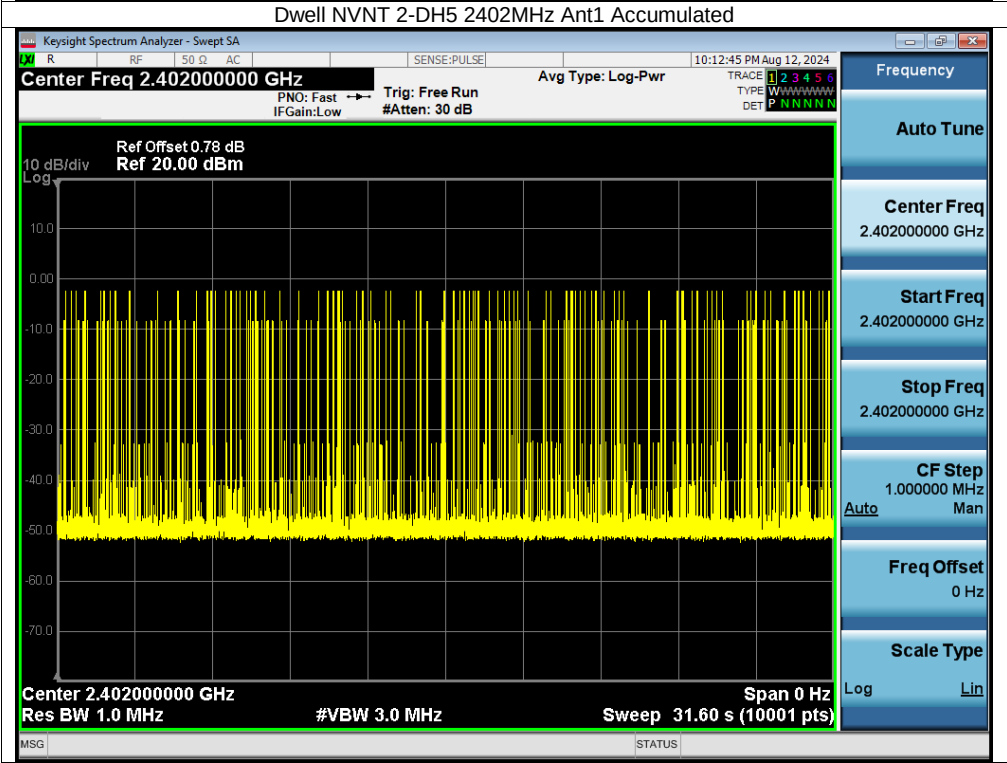
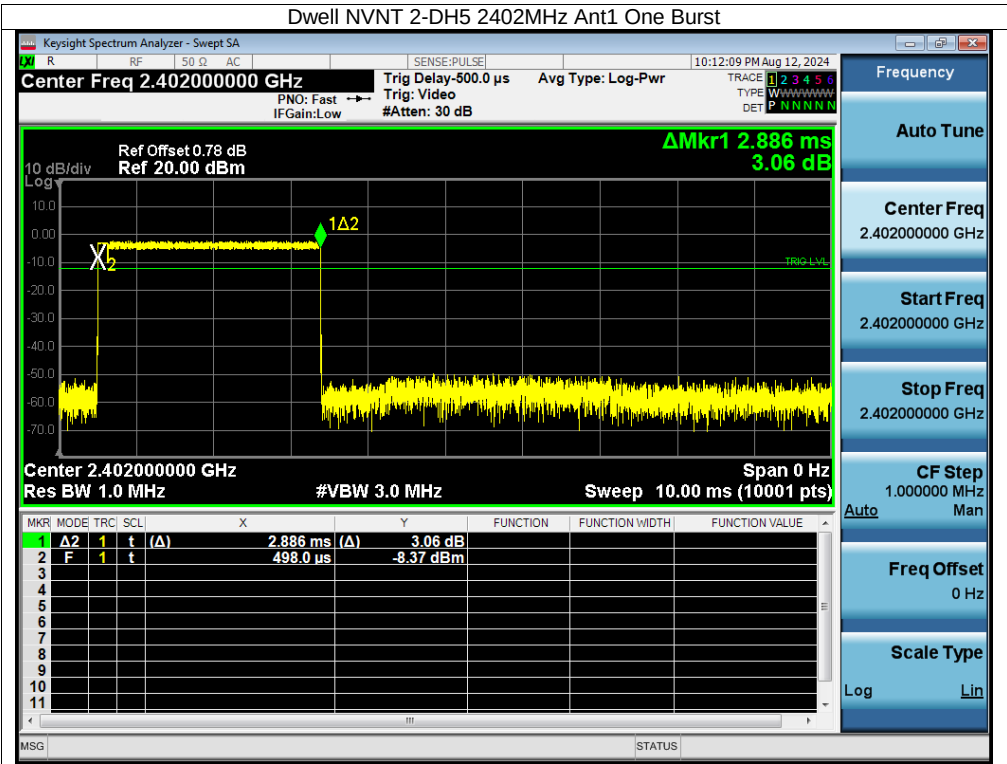


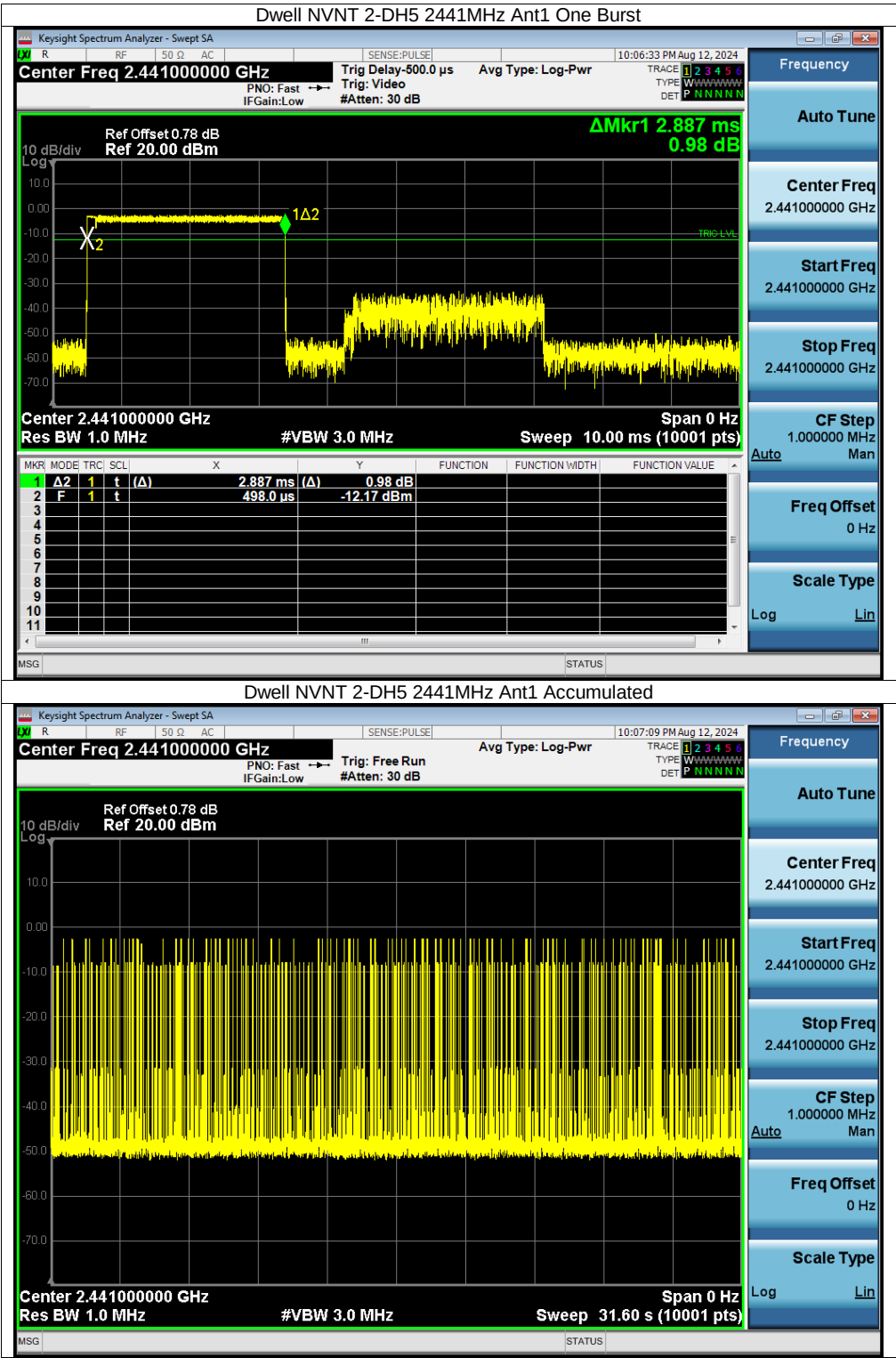
Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.88	293.76	102	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.88	339.84	118	31600	400	Pass
NVNT	1-DH5	2480	Ant1	2.88	285.12	99	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.886	294.372	102	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.887	323.344	112	31600	400	Pass
NVNT	2-DH5	2480	Ant1	2.886	331.89	115	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.888	259.92	90	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.887	360.875	125	31600	400	Pass
NVNT	3-DH5	2480	Ant1	2.887	300.248	104	31600	400	Pass









Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated

Keysight Spectrum Analyzer - Swept SA

10:07:09 PM Aug 12, 2024

Center Freq 2.441000000 GHz

Trig: Free Run

Avg Type: Log-Pwr

RF

50 Q

AC

SENSE:PULSE

Trig: Free Run

PN0: 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 0.78 dB

Ref 20.00 dBm

Center 2.441000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Span 0 Hz

Sweep 31.60 s (10001 pts)

MSG

STATUS

Frequency

Auto Tune

Center Freq 2.441000000 GHz

Start Freq 2.441000000 GHz

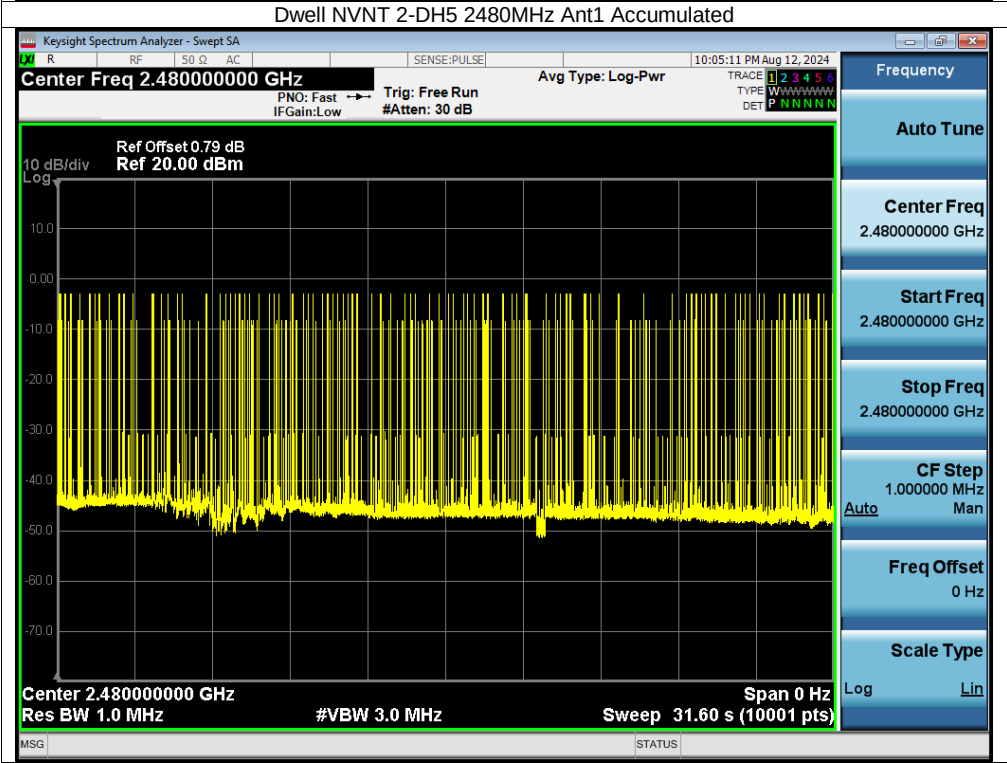
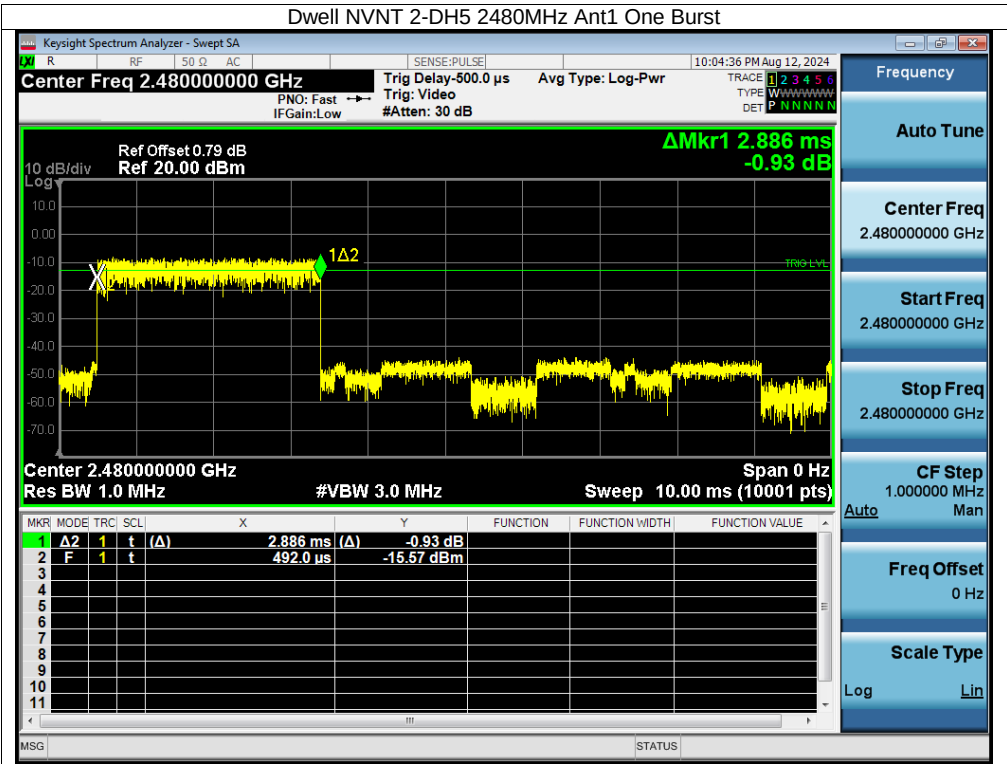
Stop Freq 2.441000000 GHz

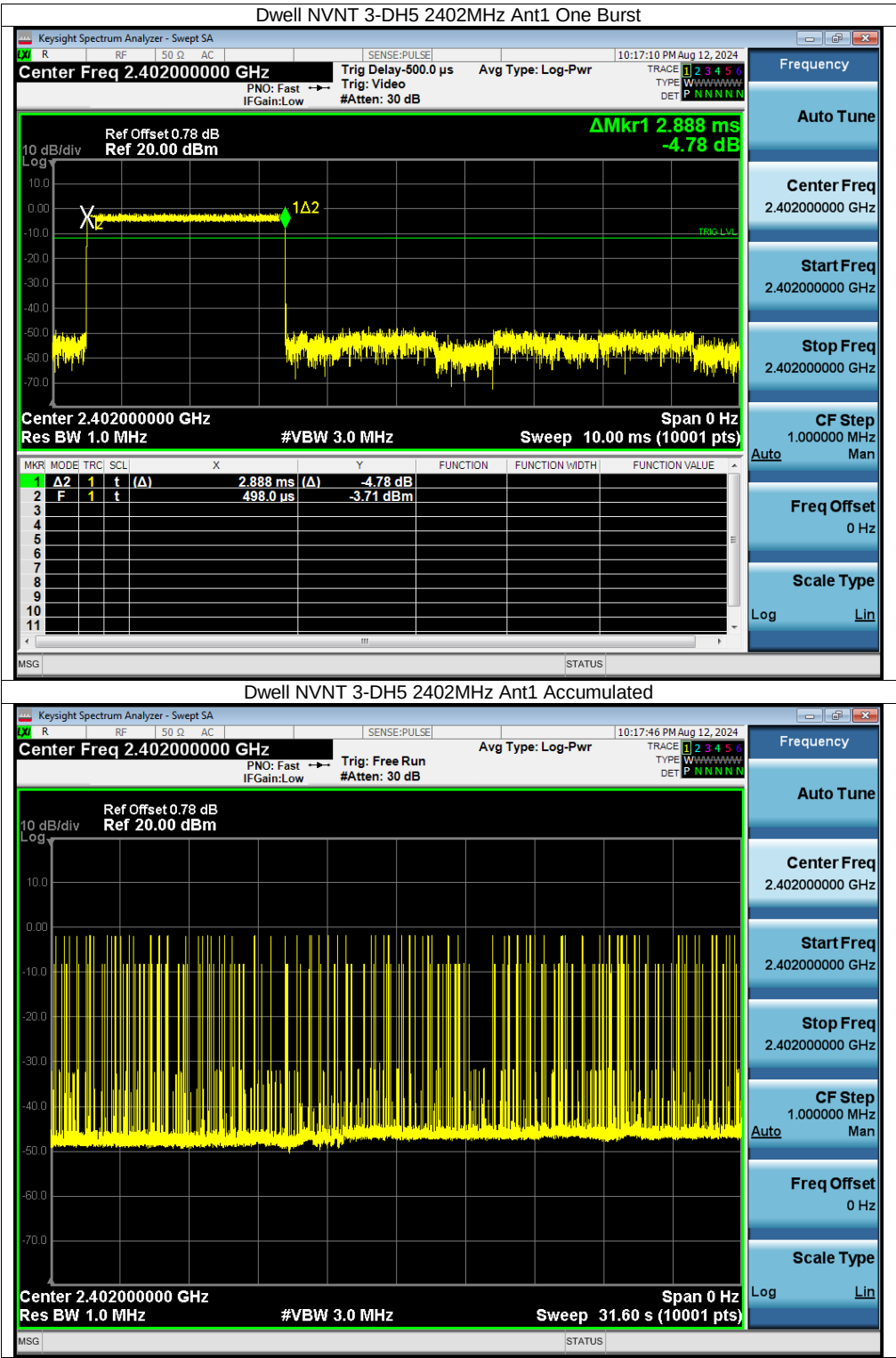
CF Step 1.000000 MHz

Auto Man

Freq Offset 0 Hz

Scale Type Log Lin





Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.402000000 GHz

Trig: Free Run

Avg Type: Log-Pwr

Trig: Free Run

PNO: Fast

IFGain:Low

#Atten: 30 dB

10:17:46 PM Aug 12, 2024

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 0.78 dB

Ref 20.00 dBm

10 dB/div

Log

Center 2.402000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 31.60 s (10001 pts)

Span 0 Hz

MSG

STATUS

Frequency

Auto Tune

Center Freq
2.402000000 GHz

Start Freq
2.402000000 GHz

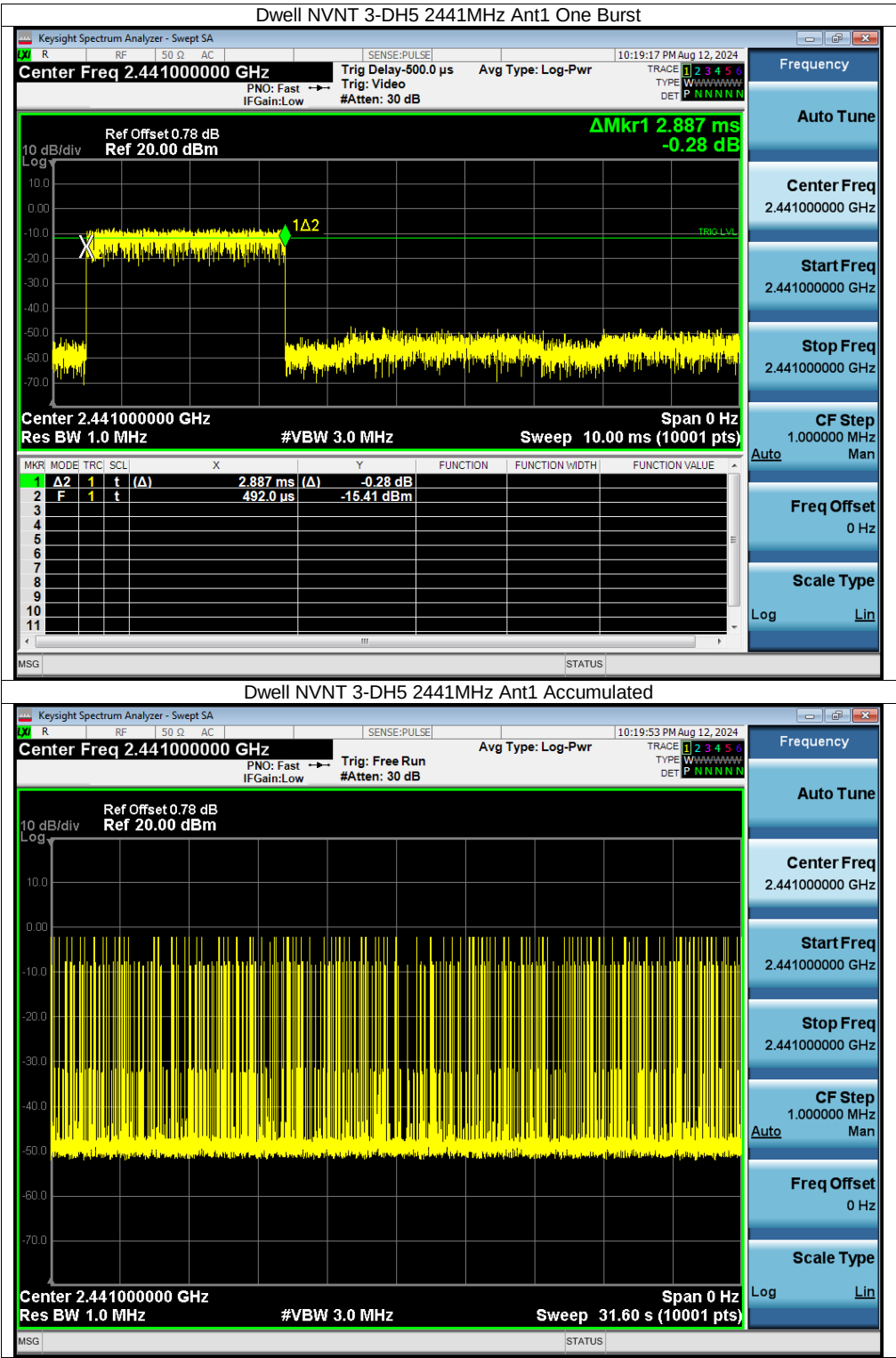
Stop Freq
2.402000000 GHz

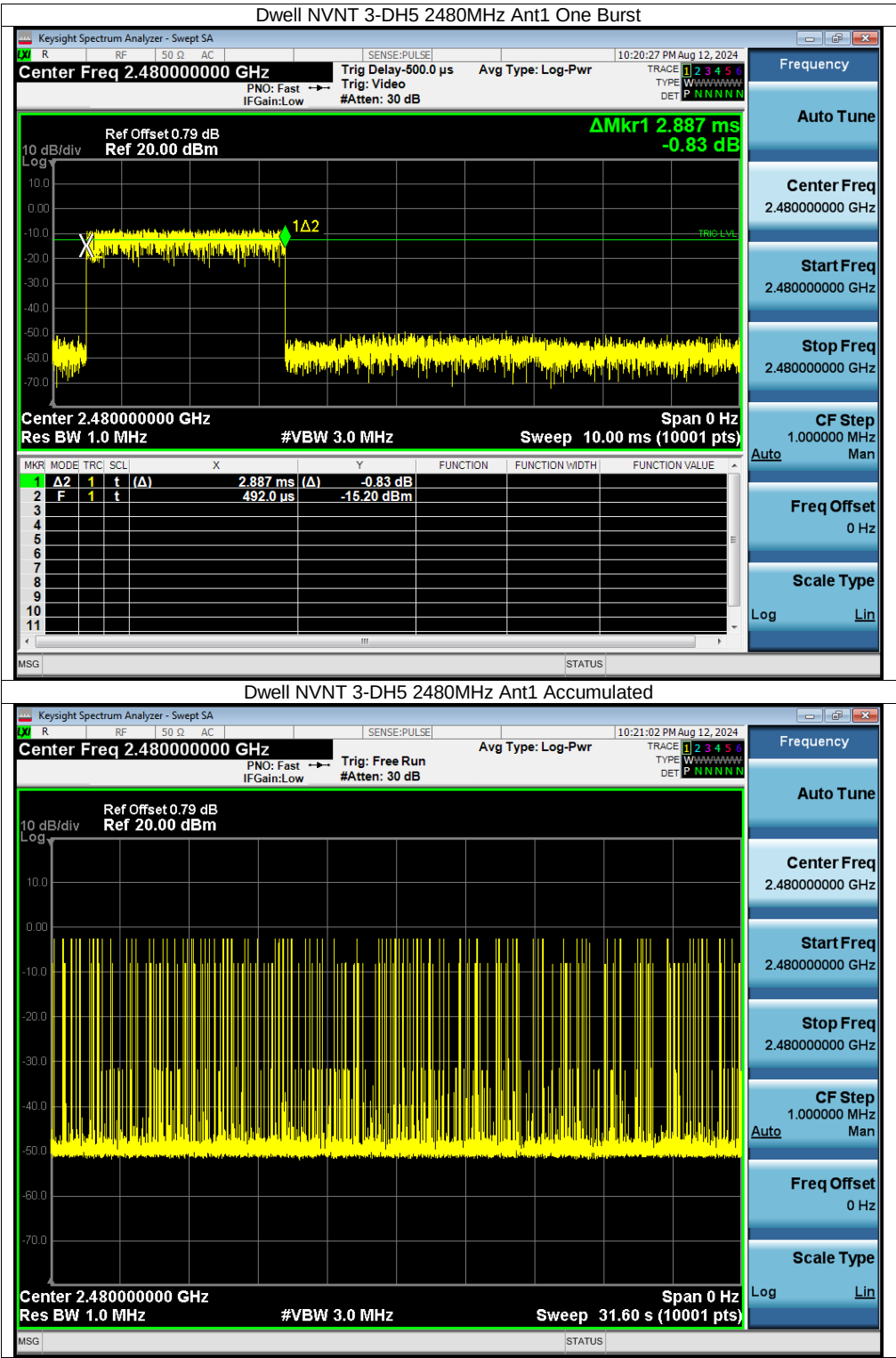
CF Step
1.000000 MHz

Auto Man

Freq Offset
0 Hz

Scale Type
Log Lin





Dwell NVNT 3-DH5 2480MHz Ant1 Accumulated

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.480000000 GHz

Trig: Free Run

Avg Type: Log-Pwr

Trig: Free Run

PNO: Fast

IFGain:Low

#Atten: 30 dB

10:21:02 PM Aug 12, 2024

TRACE 1 2 3 4 5 6

TYPE W W W W W W W W

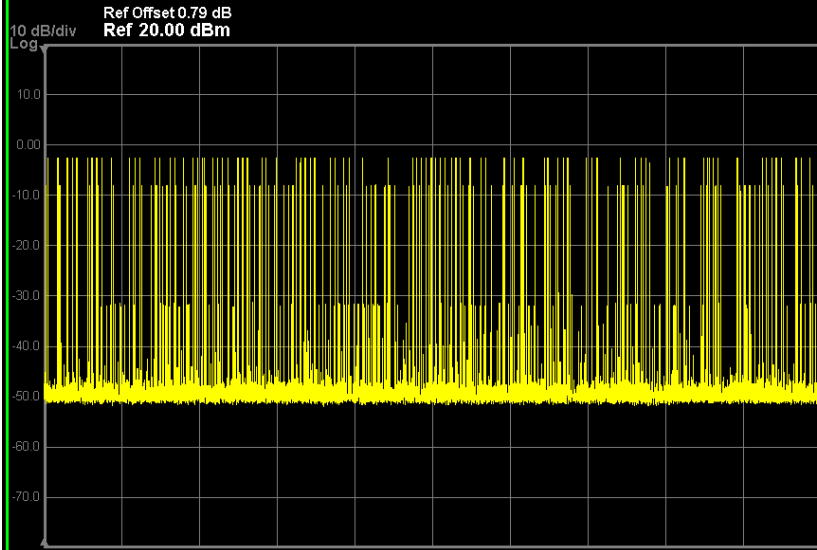
DET P N N N N N

Ref Offset 0.79 dB

Ref 20.00 dBm

10 dB/div

Log



Center 2.480000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 31.60 s (10001 pts)

Span 0 Hz

MSG STATUS

Frequency

Auto Tune

Center Freq 2.480000000 GHz

Start Freq 2.480000000 GHz

Stop Freq 2.480000000 GHz

CF Step 1.000000 MHz

Auto Man

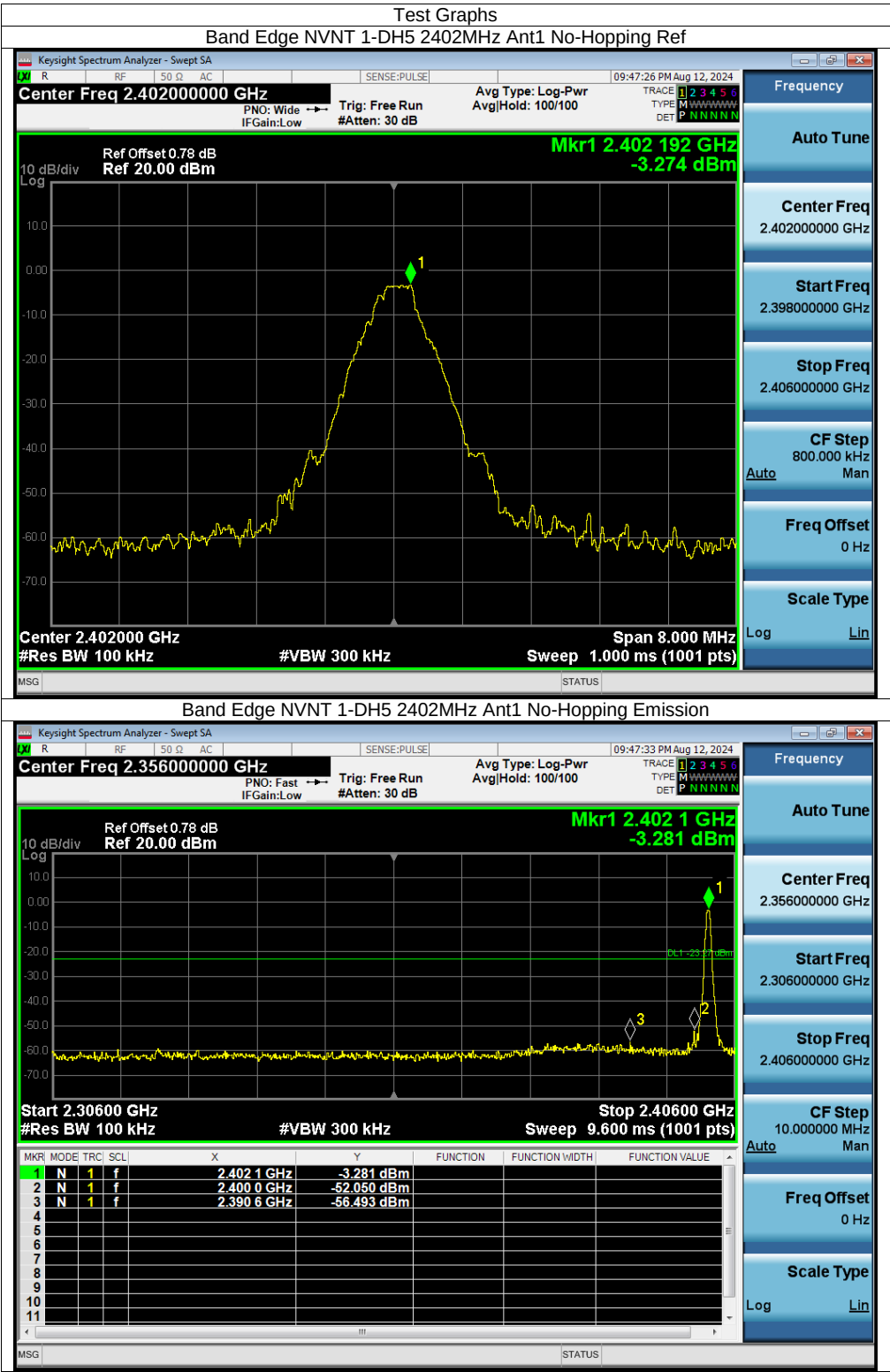
Freq Offset 0 Hz

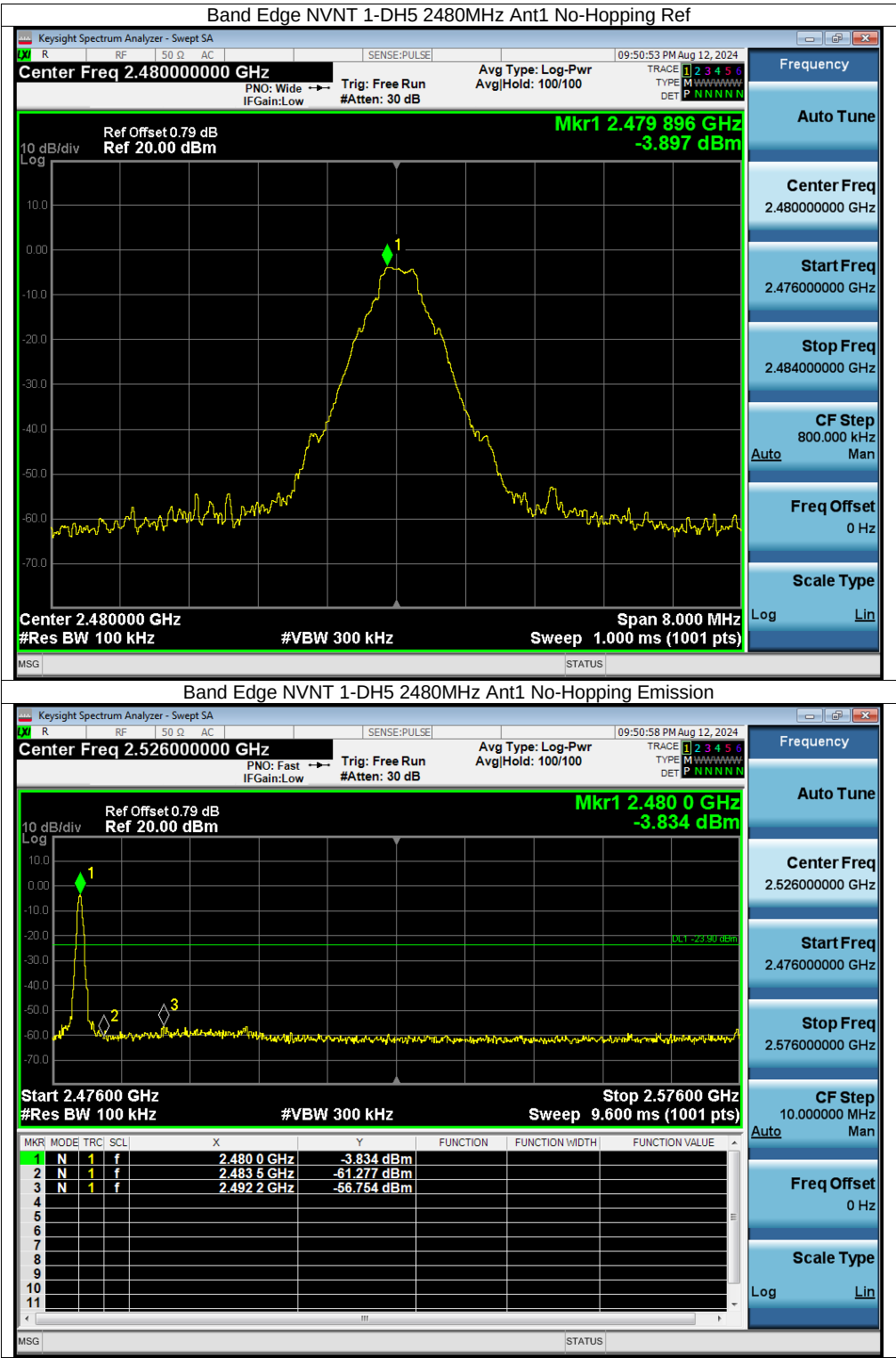
Scale Type

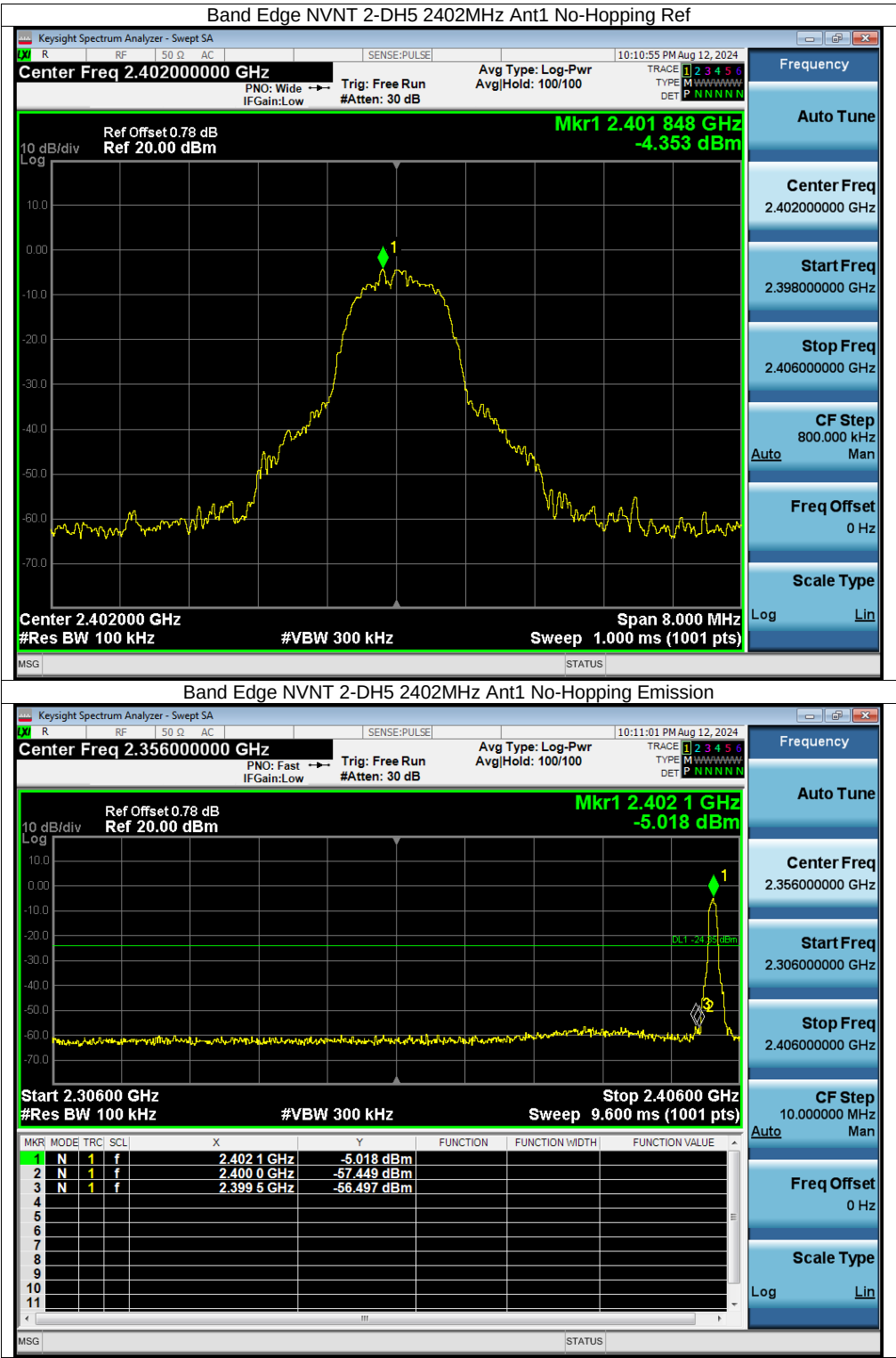
Log Lin

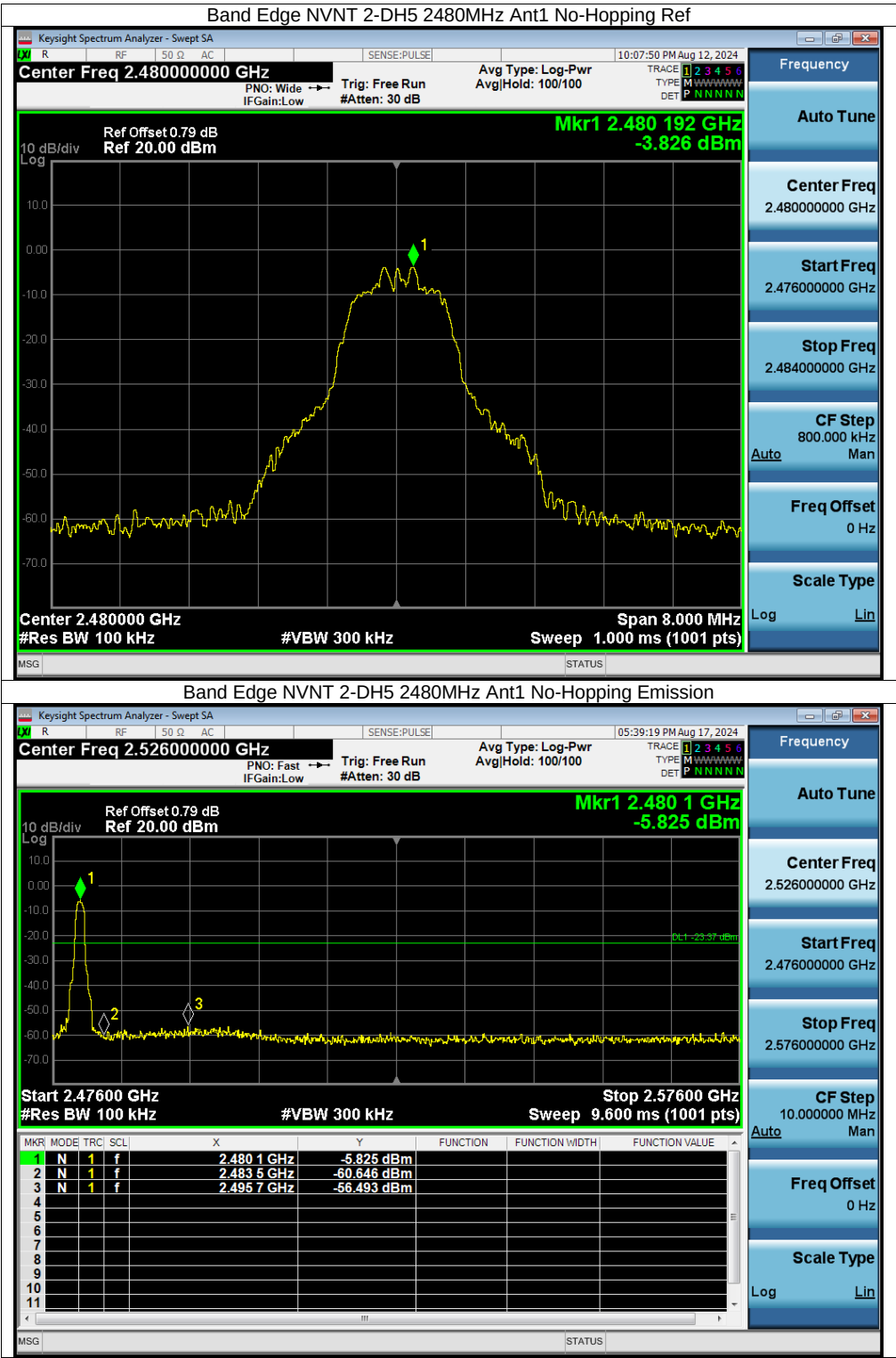
Band Edge

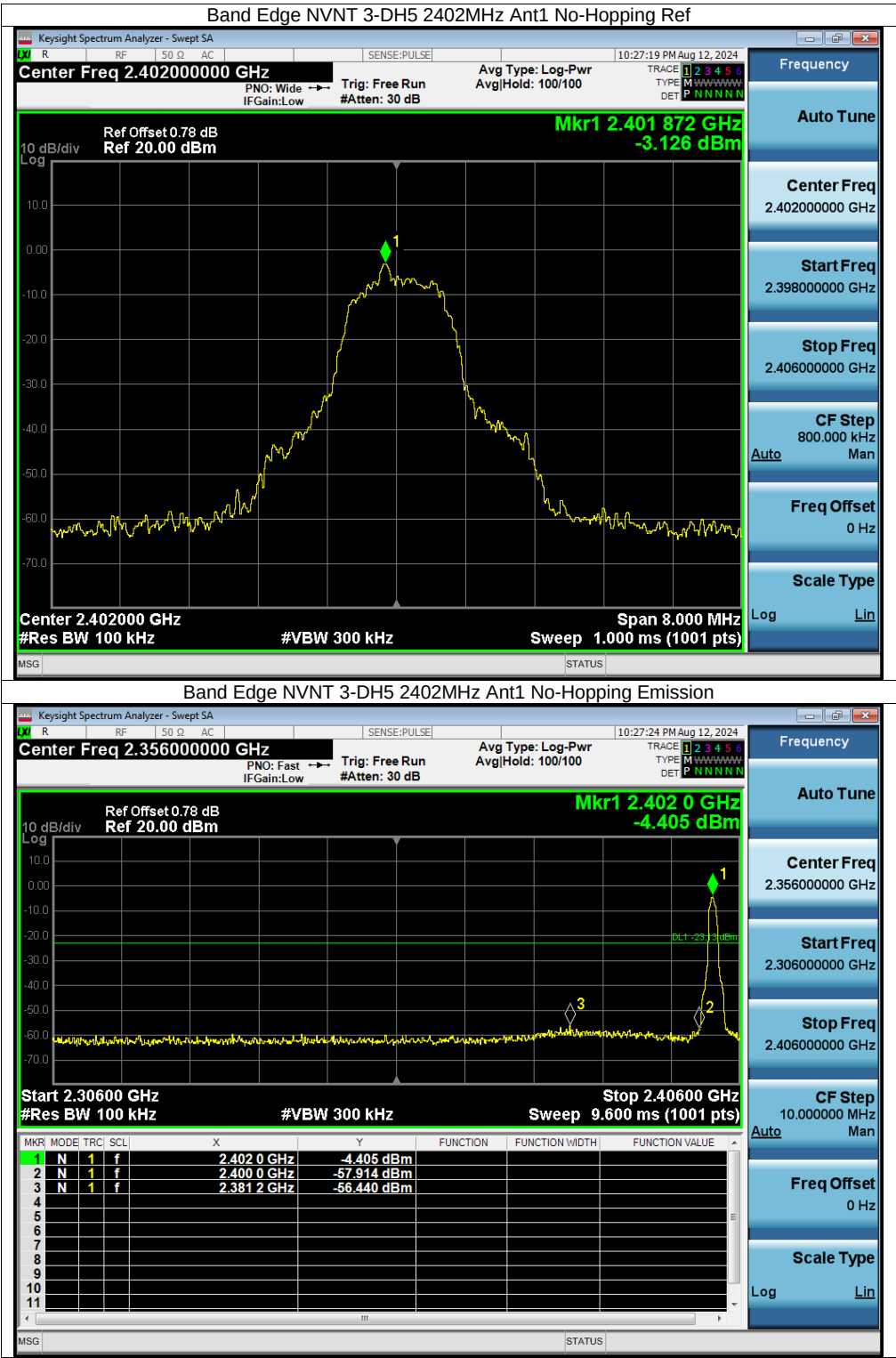
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-48.78	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-52.85	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-52.15	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.12	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-53.31	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-52.32	-20	Pass

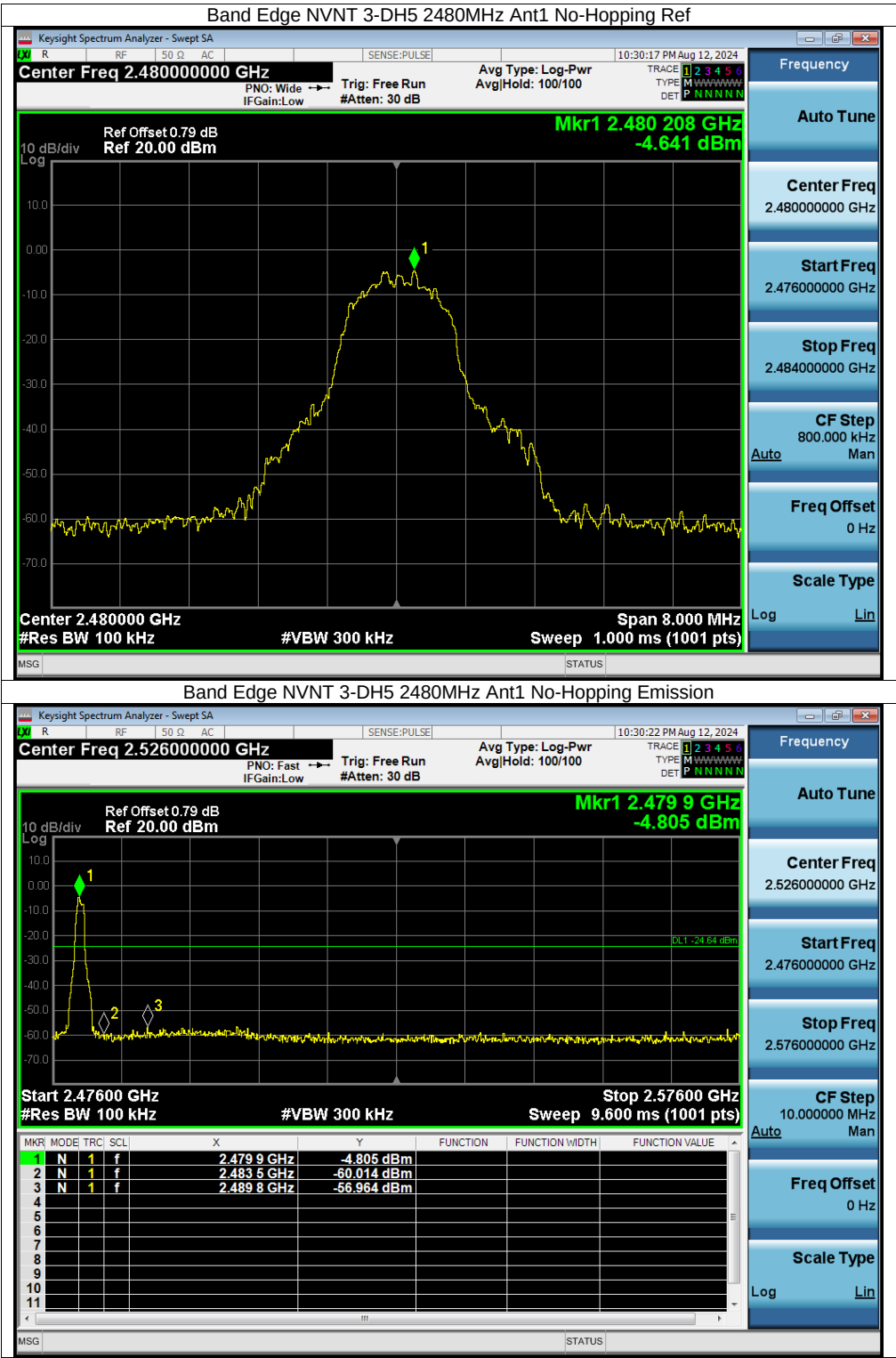






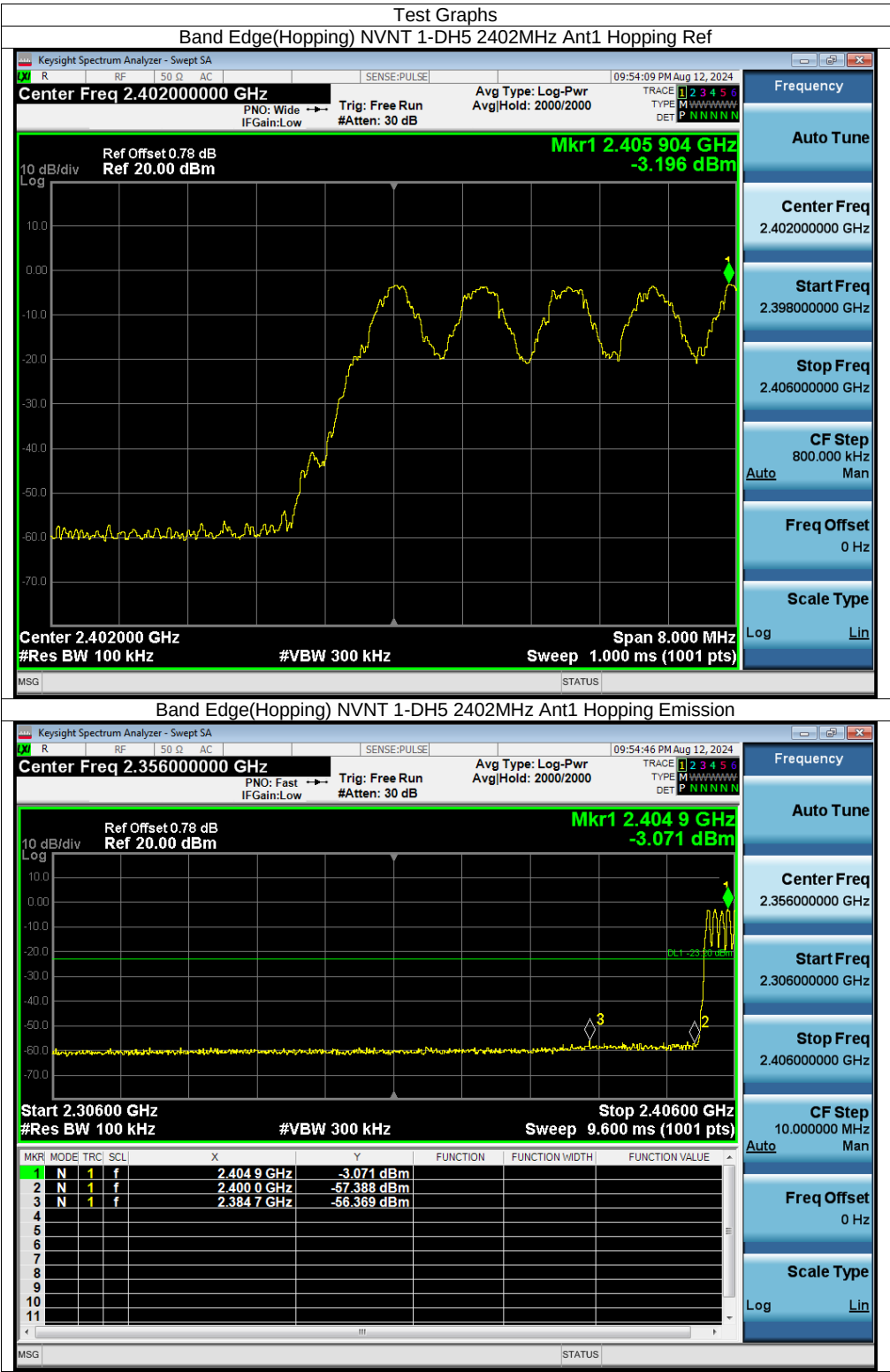


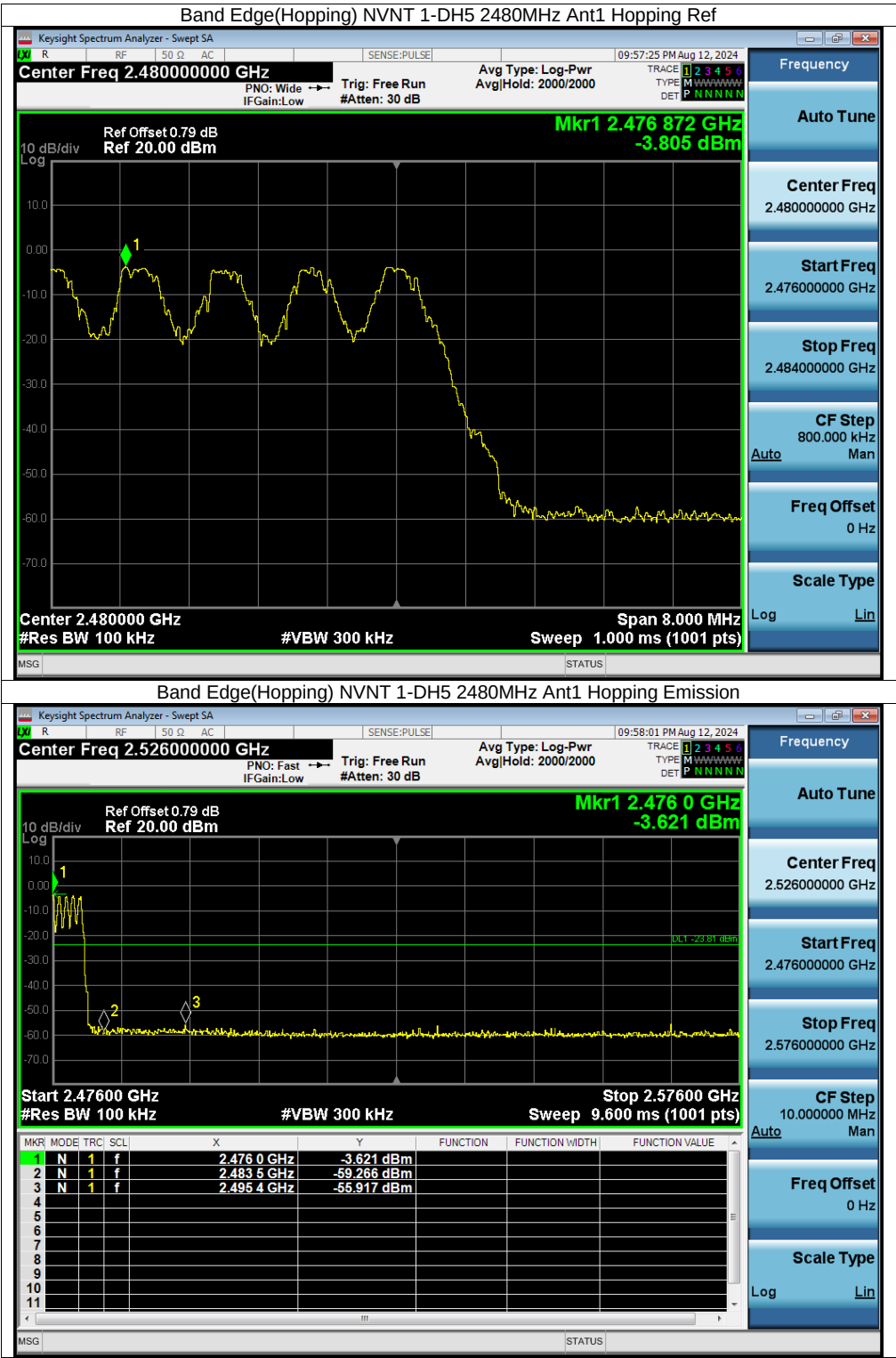


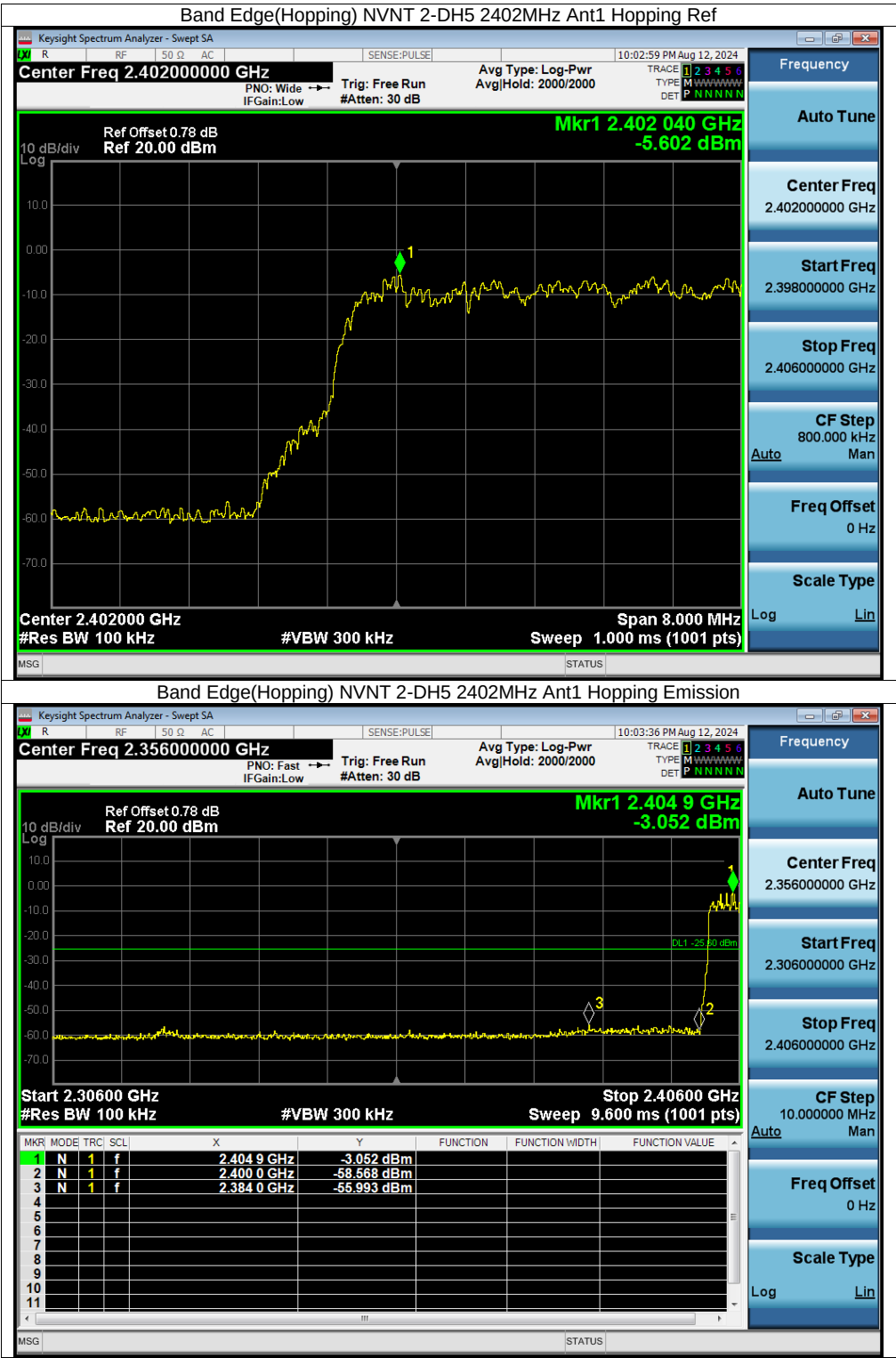


Band Edge(Hopping)

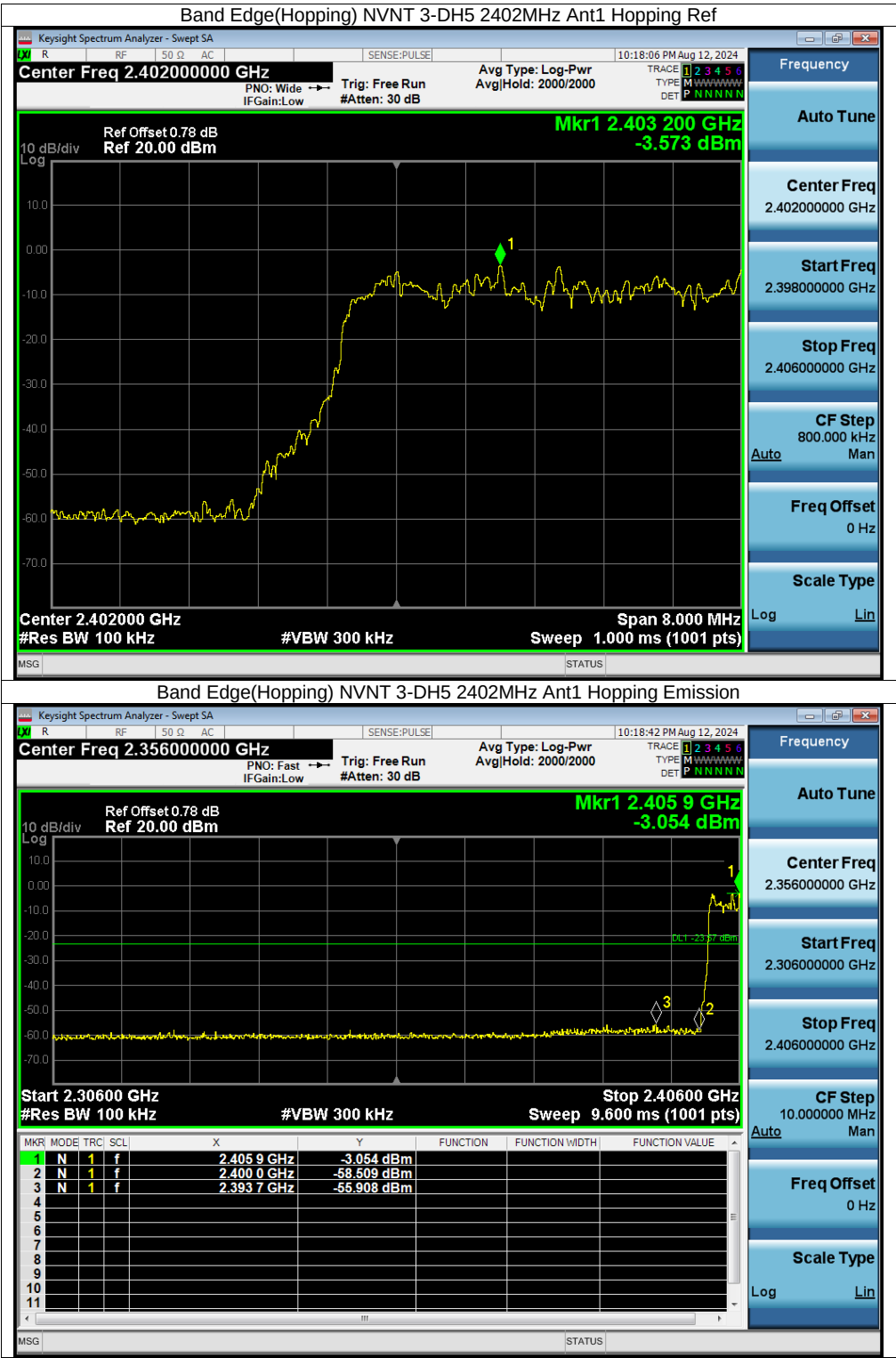
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-53.17	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-52.12	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-50.39	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.36	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-52.34	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-52.82	-20	Pass







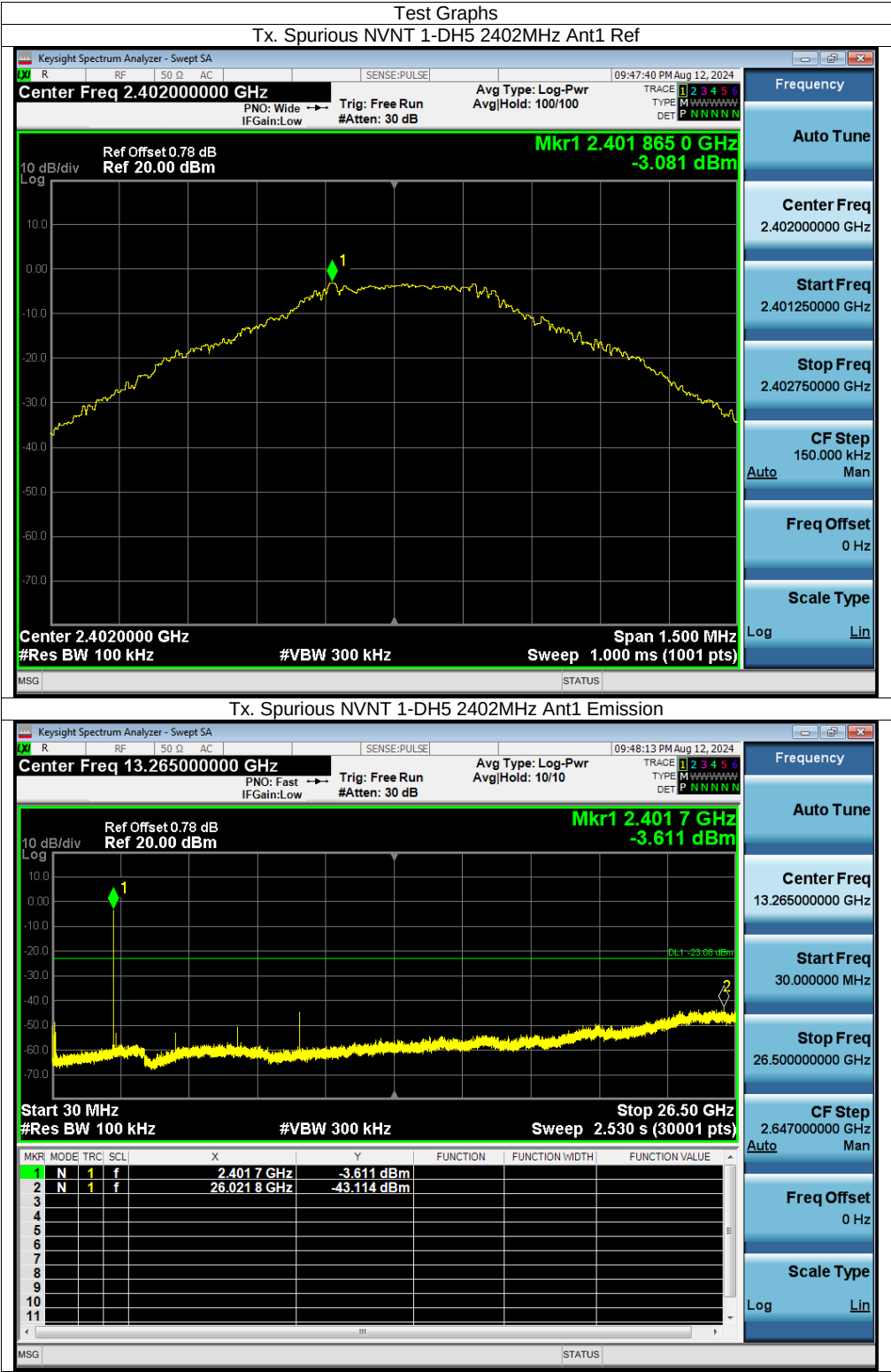


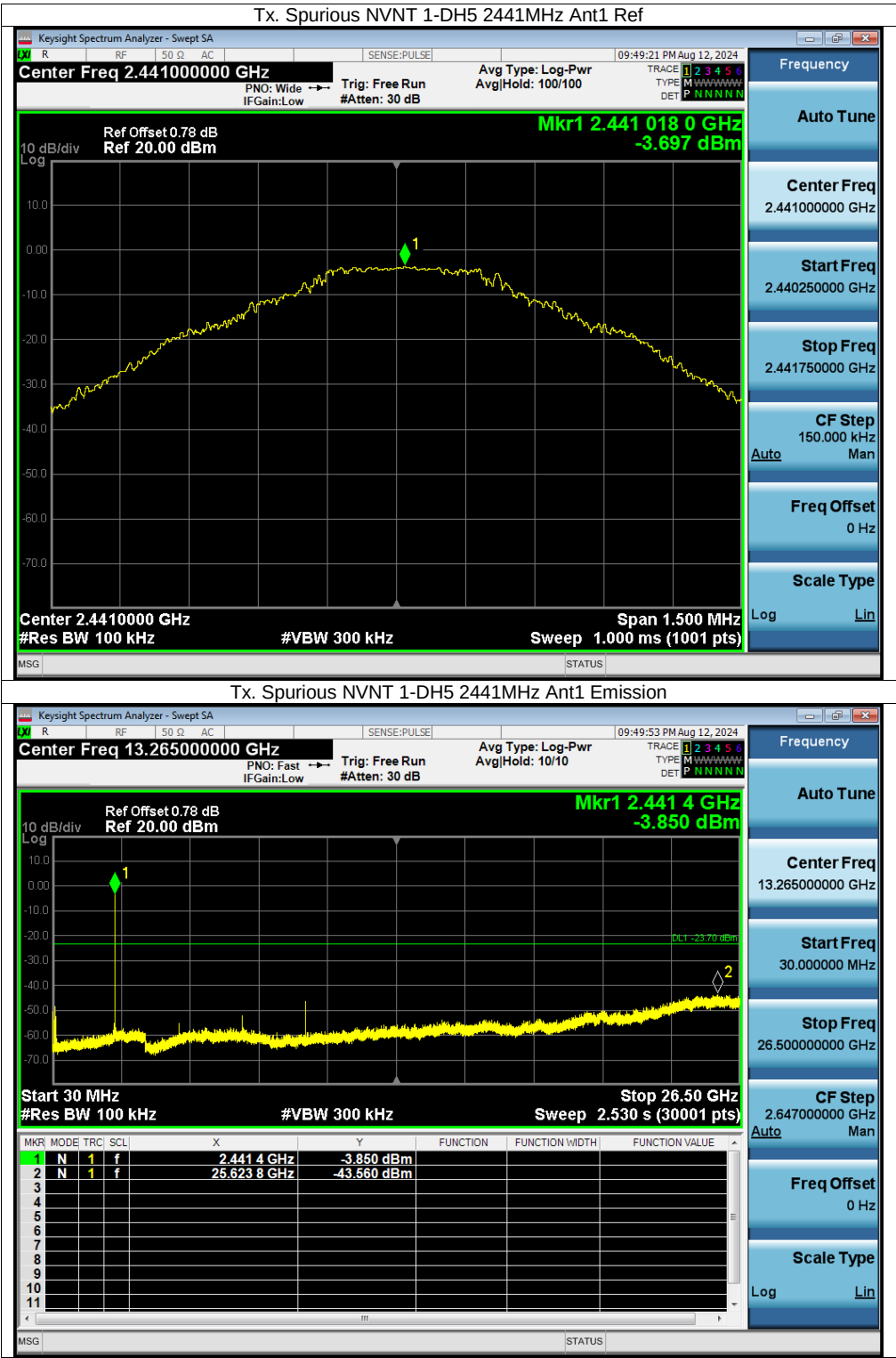


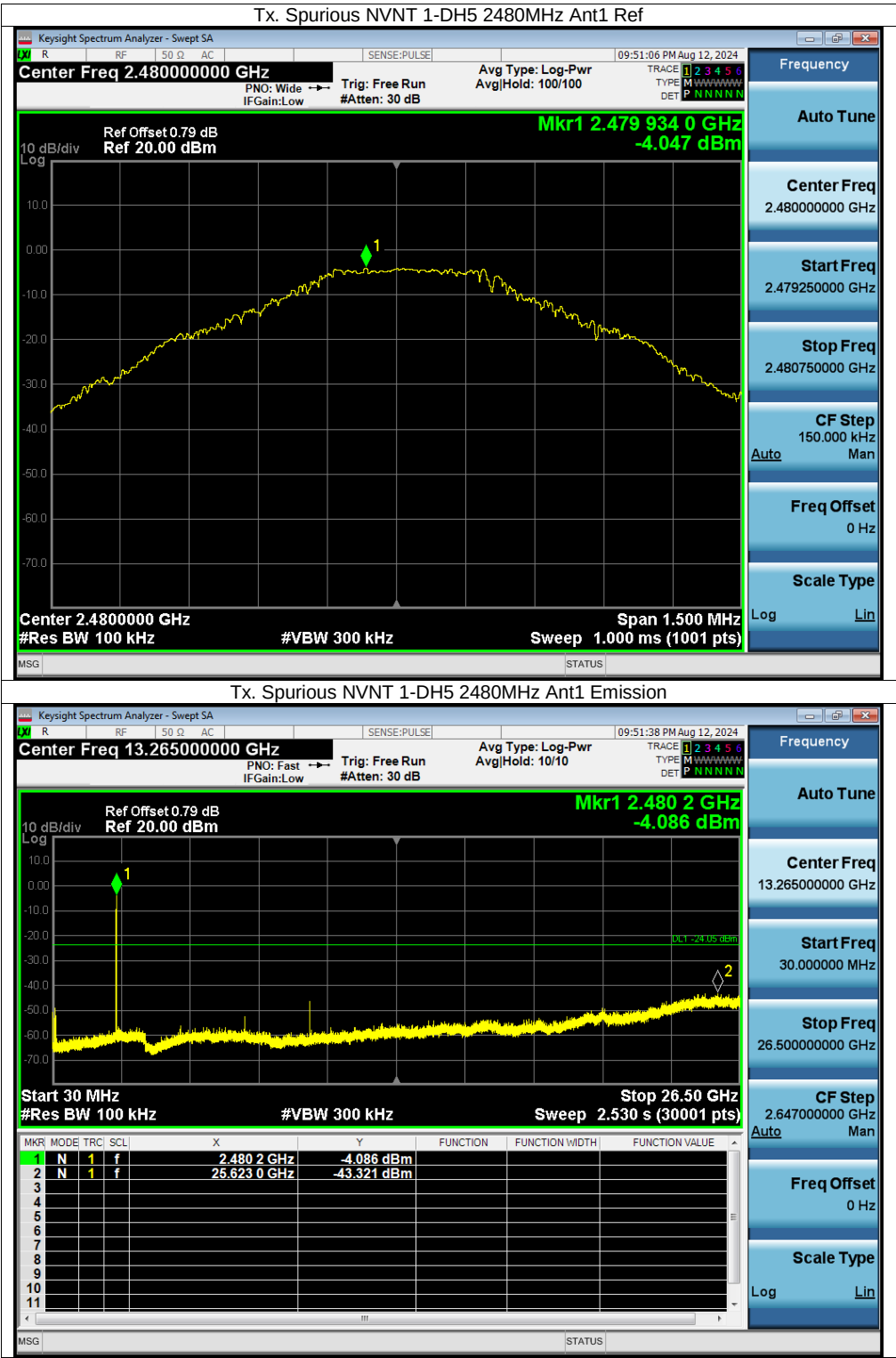


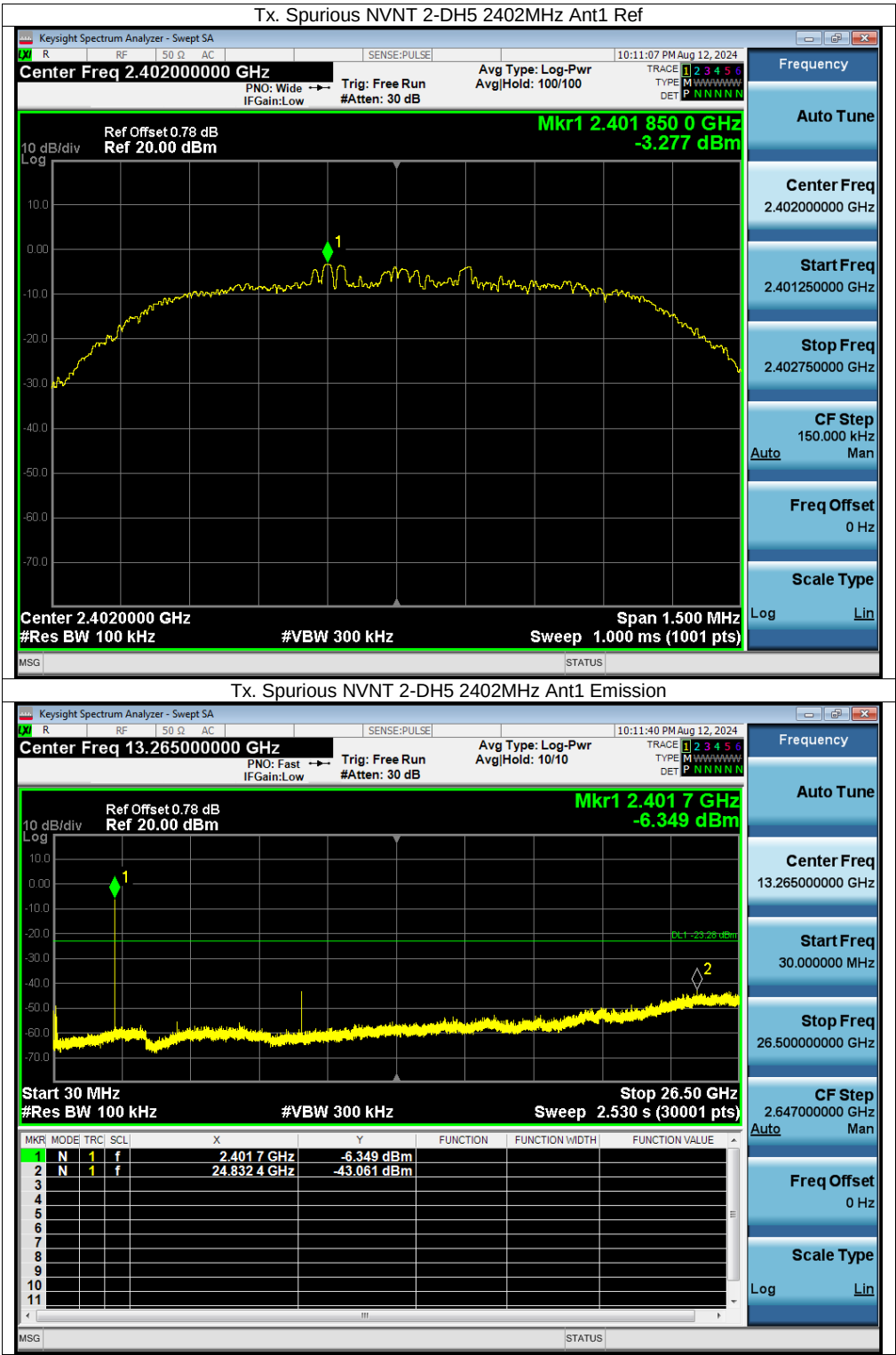
Conducted RF Spurious Emission

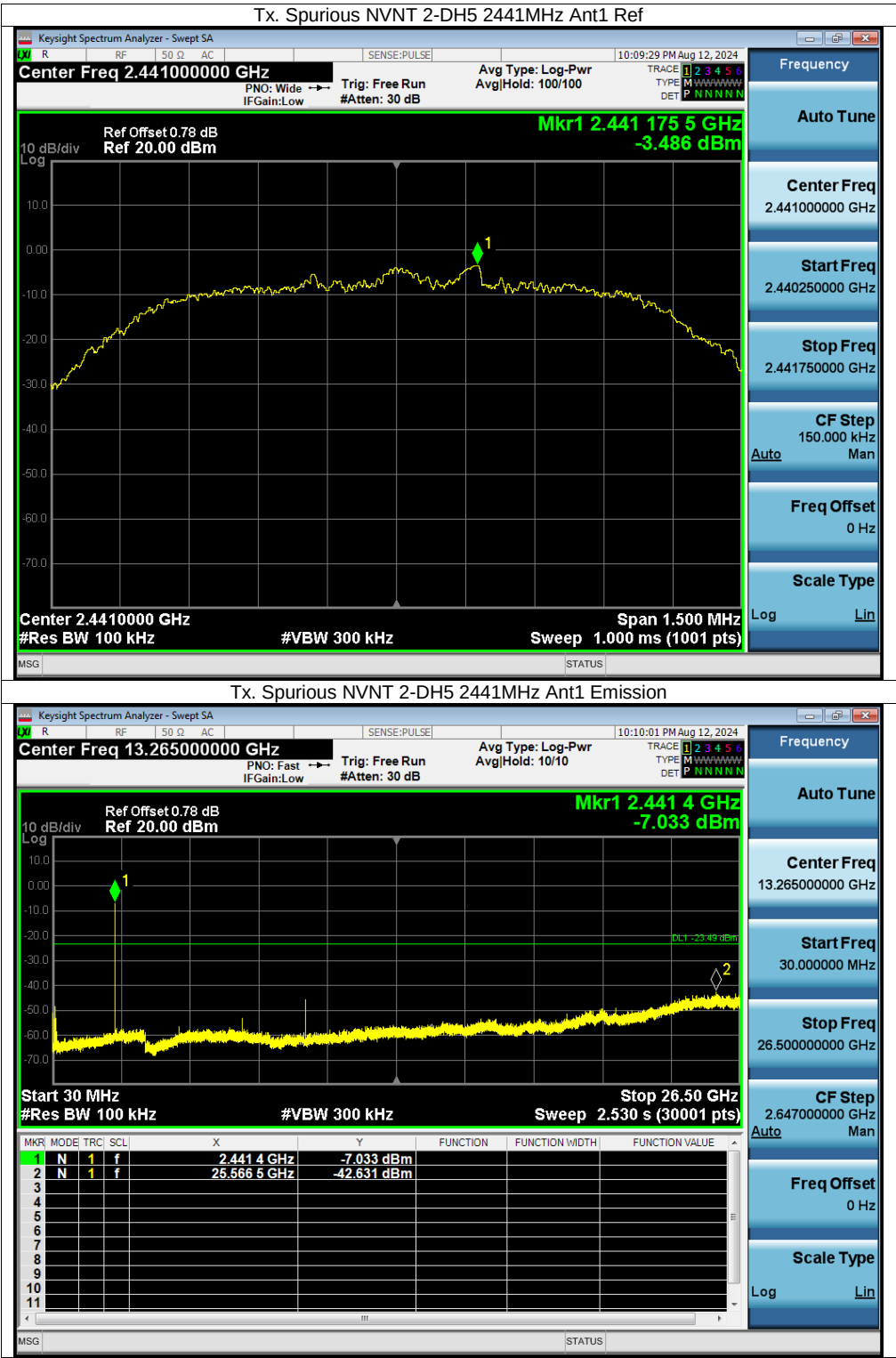
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-40.03	-20	Pass
NVNT	1-DH5	2441	Ant1	-39.86	-20	Pass
NVNT	1-DH5	2480	Ant1	-39.27	-20	Pass
NVNT	2-DH5	2402	Ant1	-39.78	-20	Pass
NVNT	2-DH5	2441	Ant1	-39.14	-20	Pass
NVNT	2-DH5	2480	Ant1	-39.7	-20	Pass
NVNT	3-DH5	2402	Ant1	-39.04	-20	Pass
NVNT	3-DH5	2441	Ant1	-38.91	-20	Pass
NVNT	3-DH5	2480	Ant1	-39.84	-20	Pass

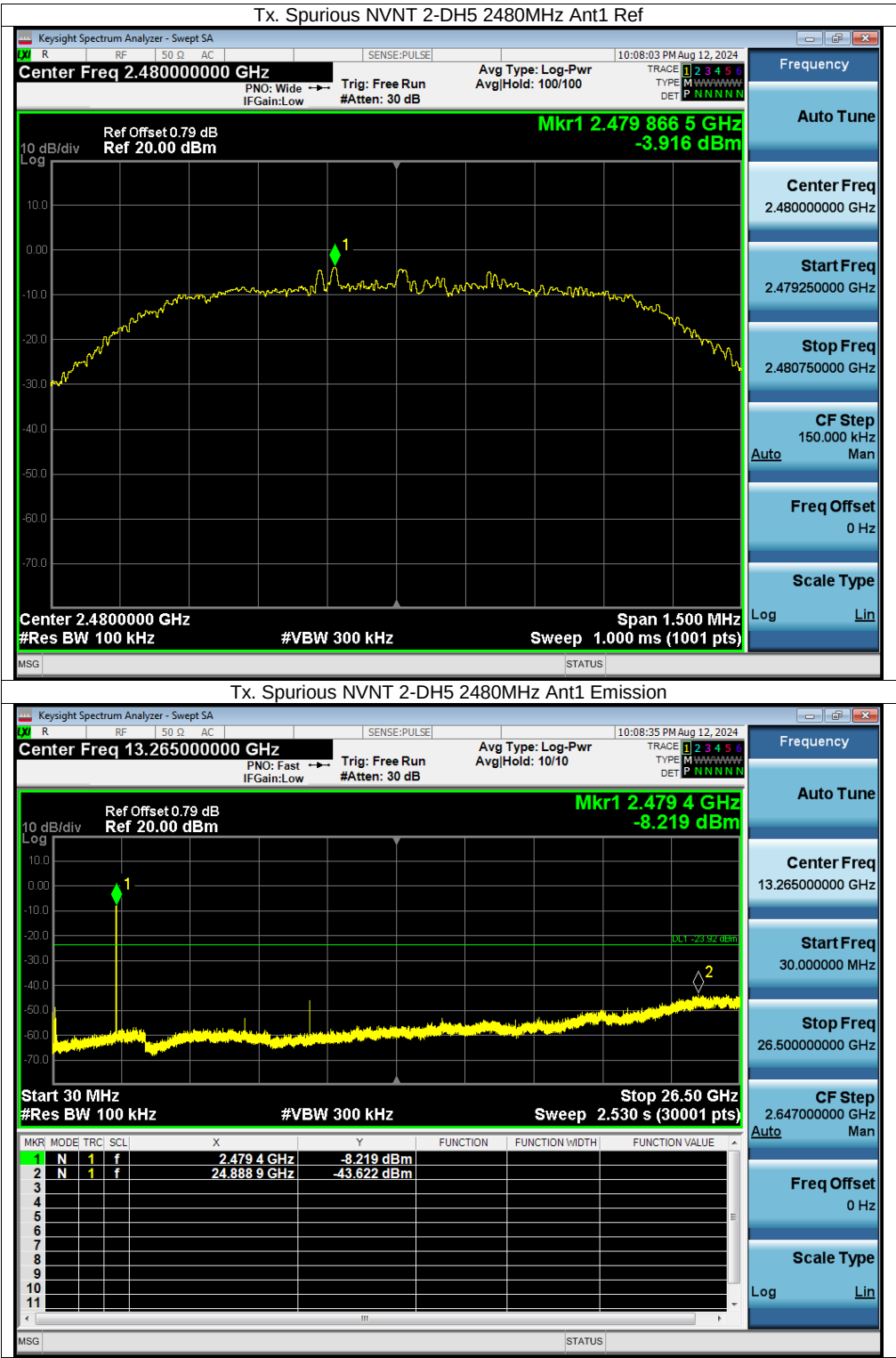




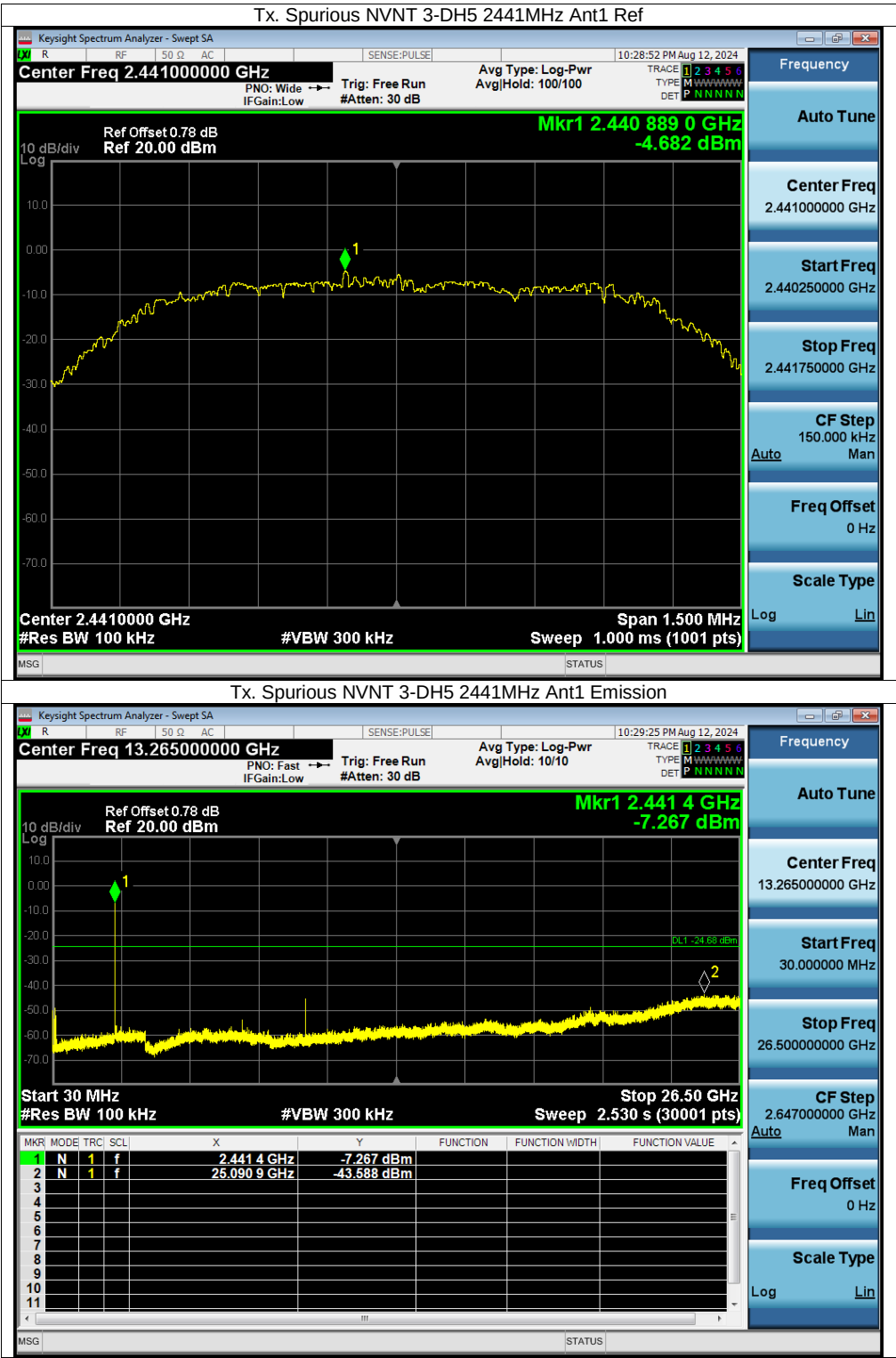


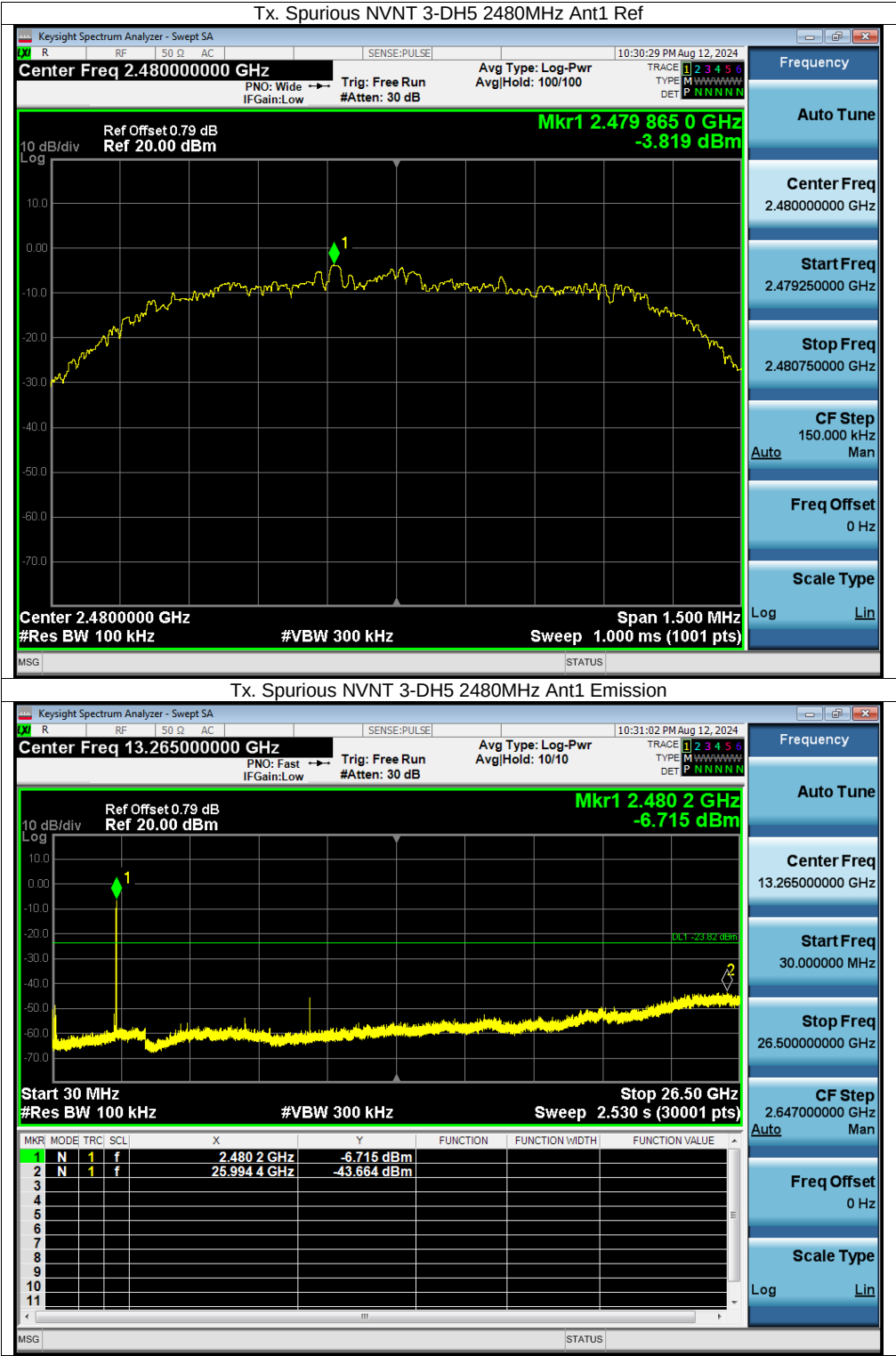










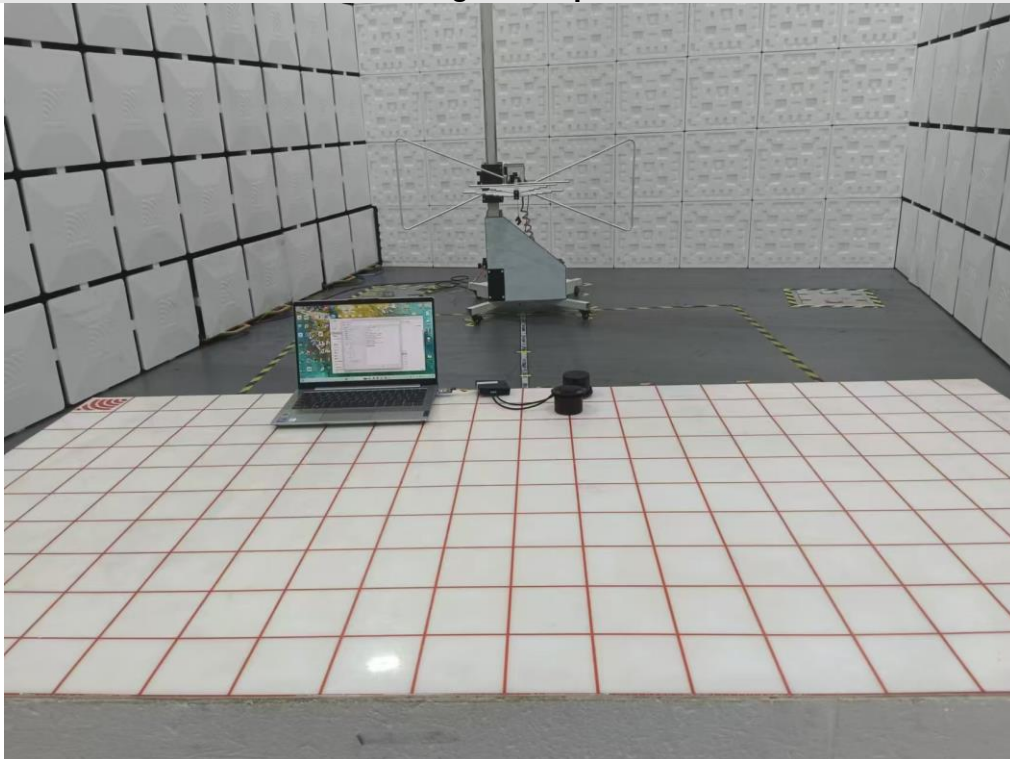


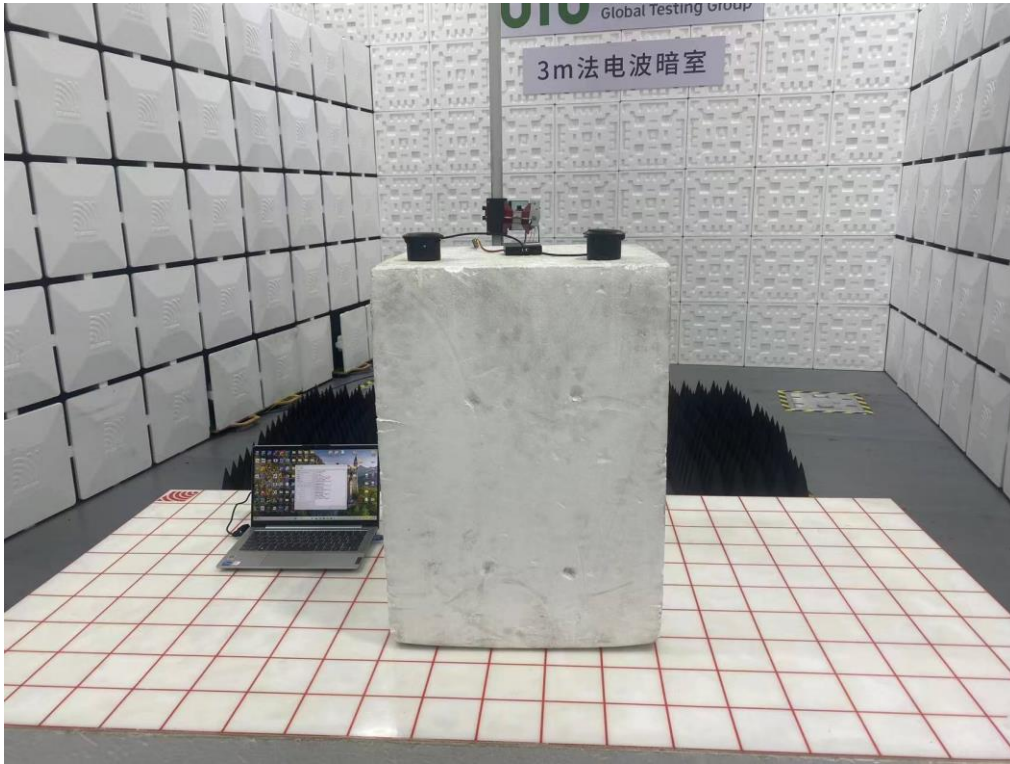
APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION

AC Power Line Conducted Emission



Radiated Band edge and Spurious Emission





END OF REPORT