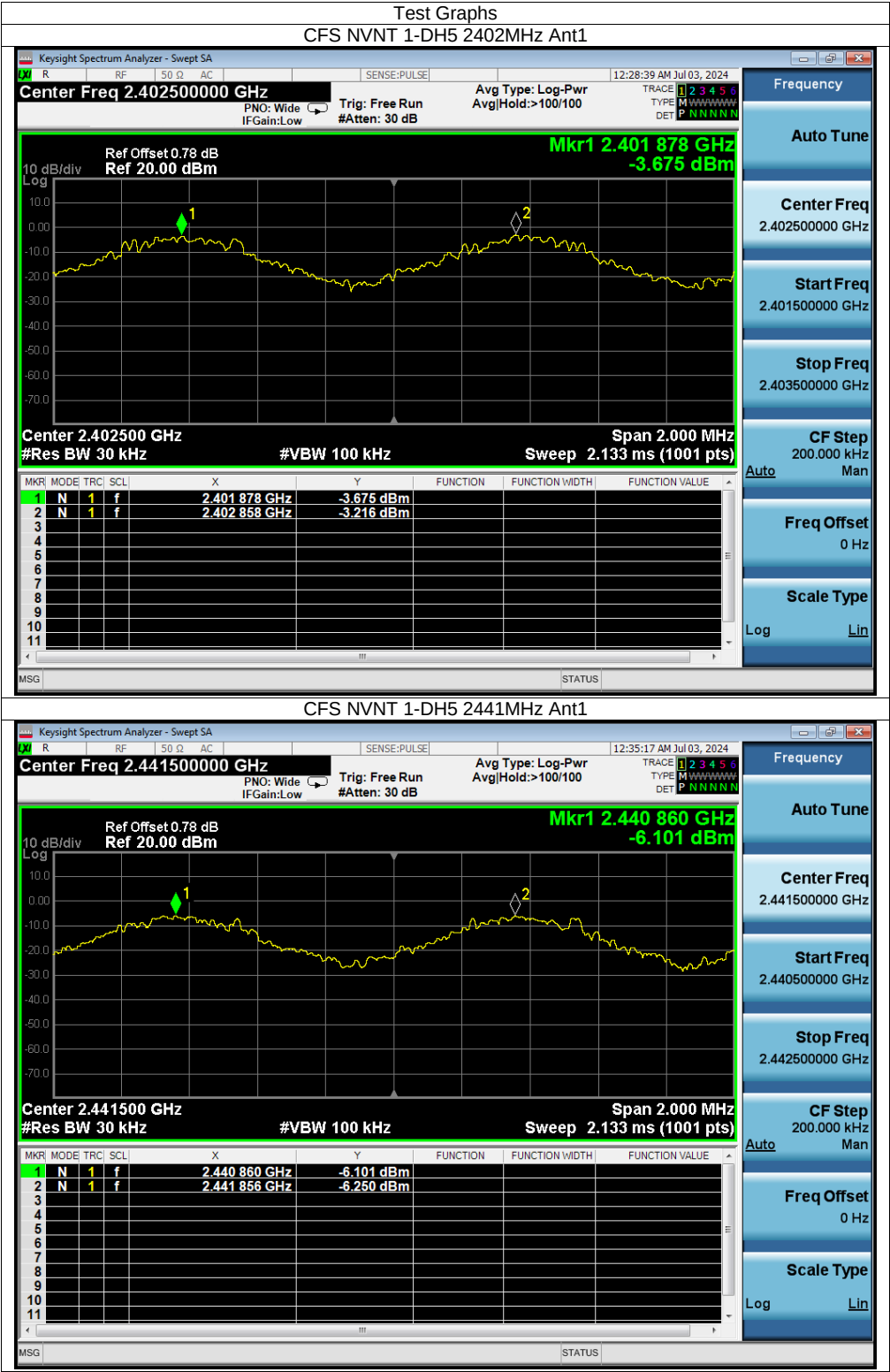


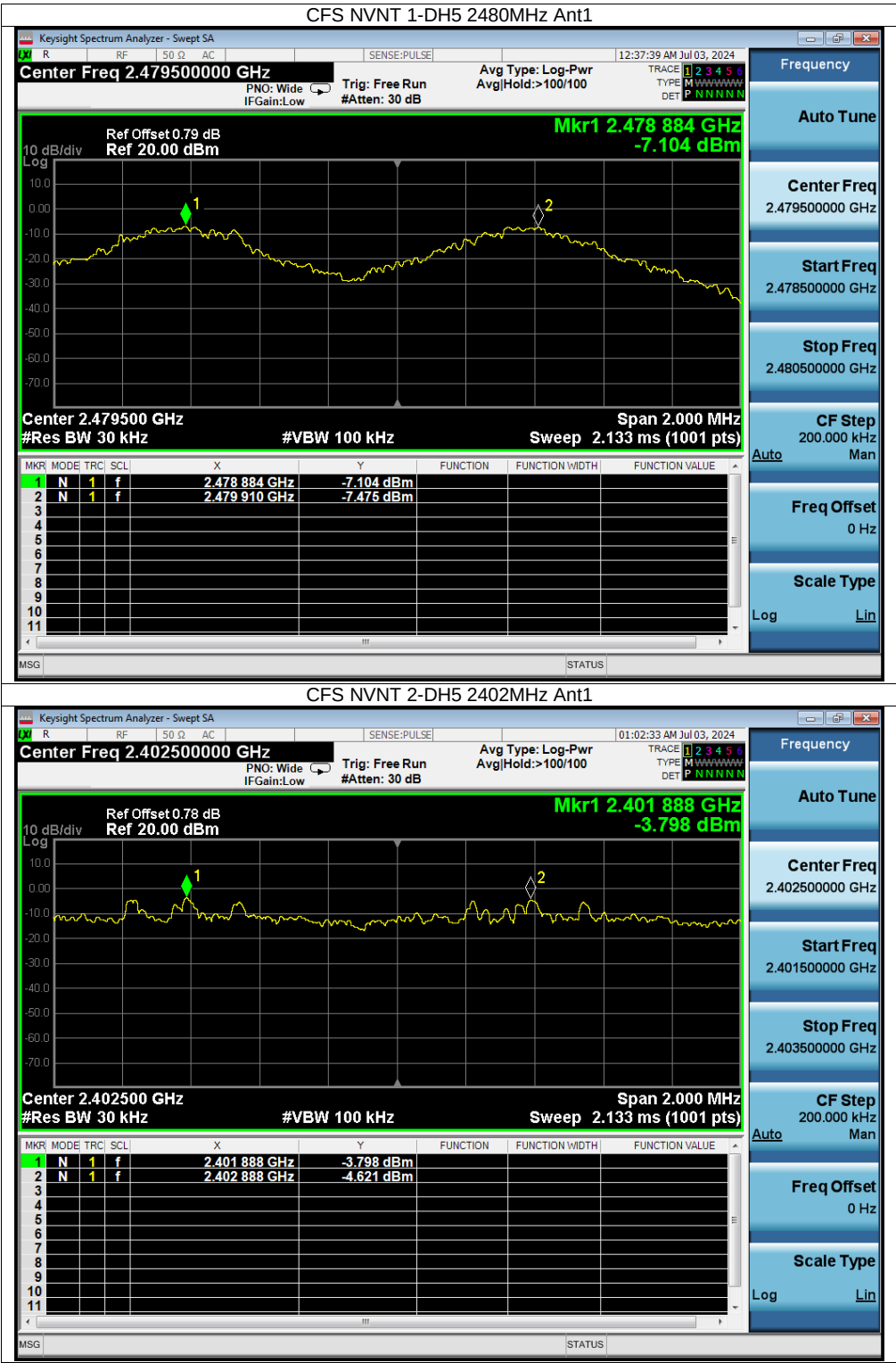


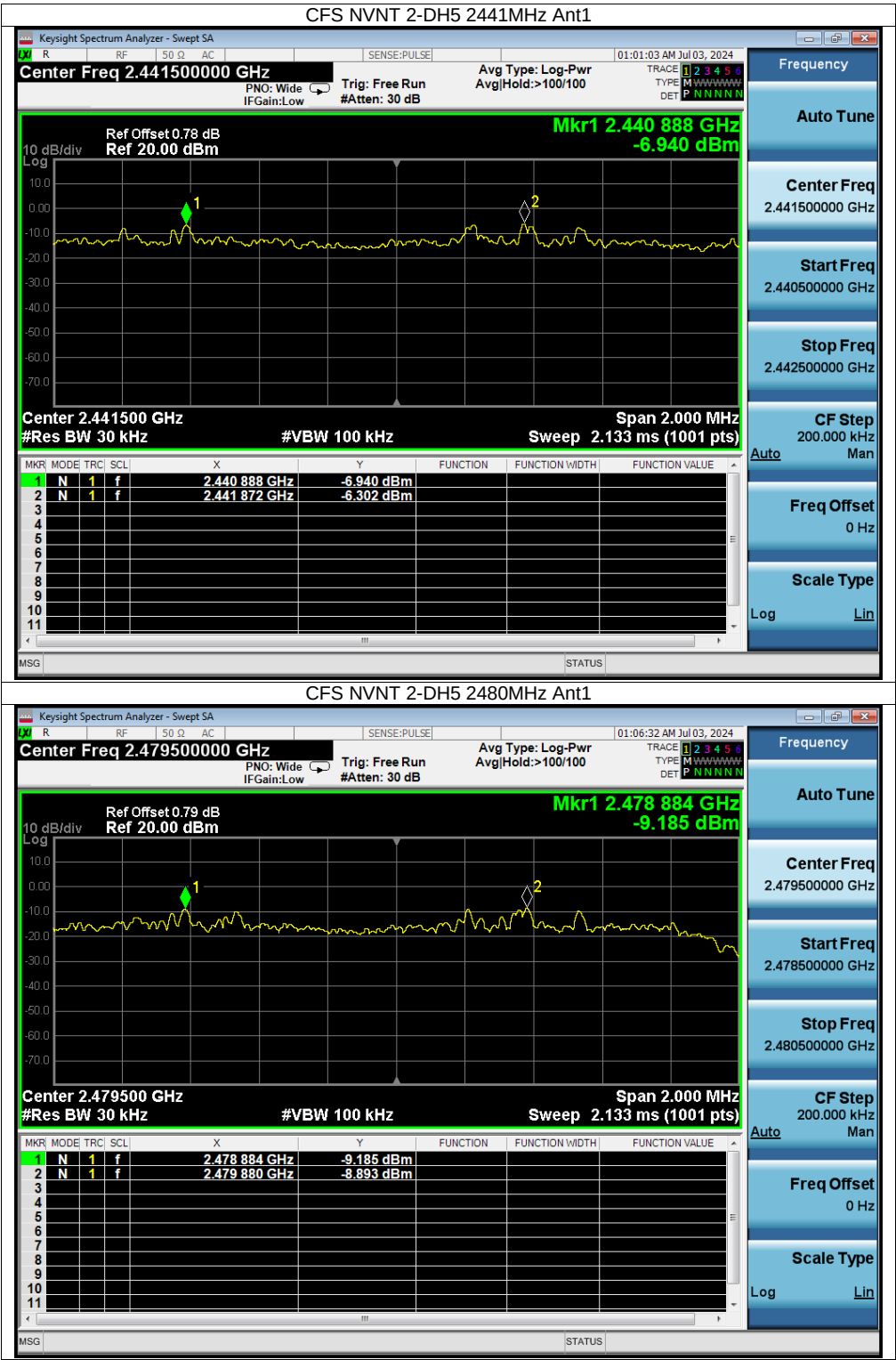


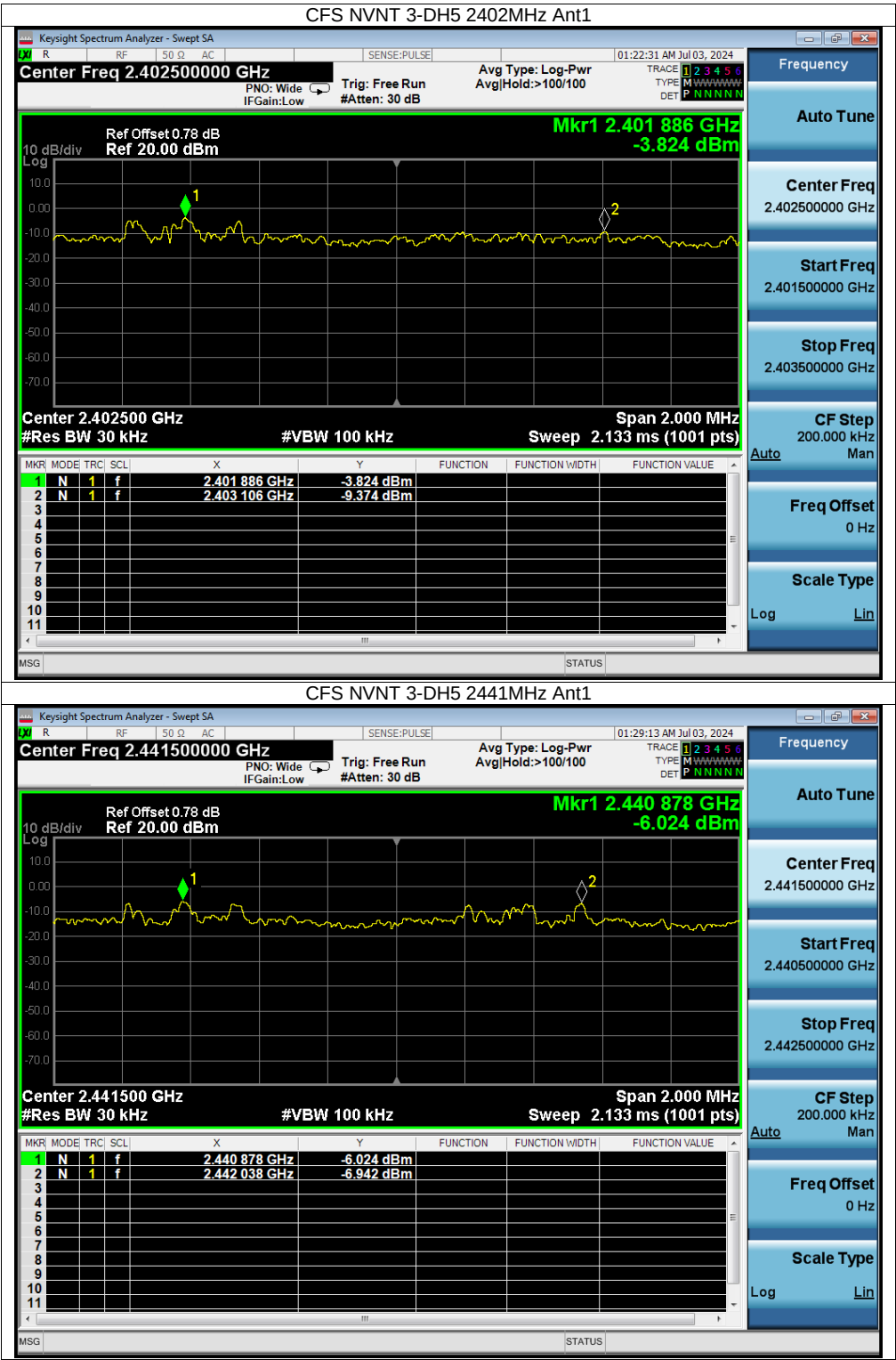
Carrier Frequencies Separation

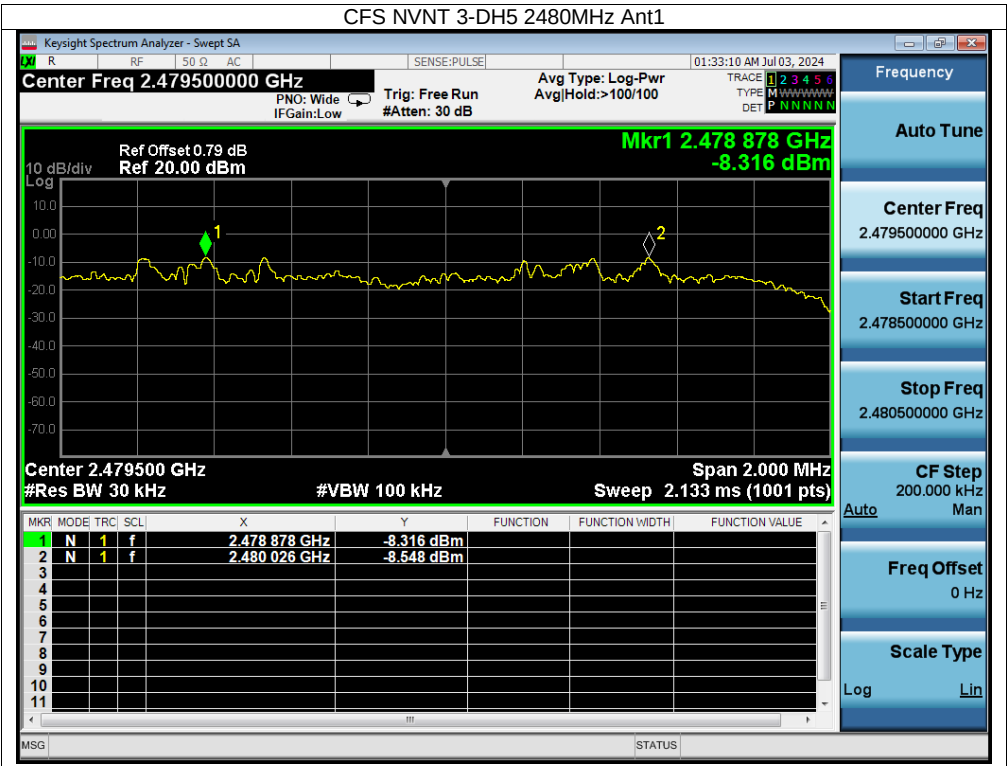
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.878	2402.858	0.98	0.713	Pass
NVNT	1-DH5	Ant1	2440.86	2441.856	0.996	0.64	Pass
NVNT	1-DH5	Ant1	2478.884	2479.91	1.026	0.667	Pass
NVNT	2-DH5	Ant1	2401.888	2402.888	1	0.867	Pass
NVNT	2-DH5	Ant1	2440.888	2441.872	0.984	0.86	Pass
NVNT	2-DH5	Ant1	2478.884	2479.88	0.996	0.86	Pass
NVNT	3-DH5	Ant1	2401.886	2403.106	1.22	0.867	Pass
NVNT	3-DH5	Ant1	2440.878	2442.038	1.16	0.867	Pass
NVNT	3-DH5	Ant1	2478.878	2480.026	1.148	0.873	Pass





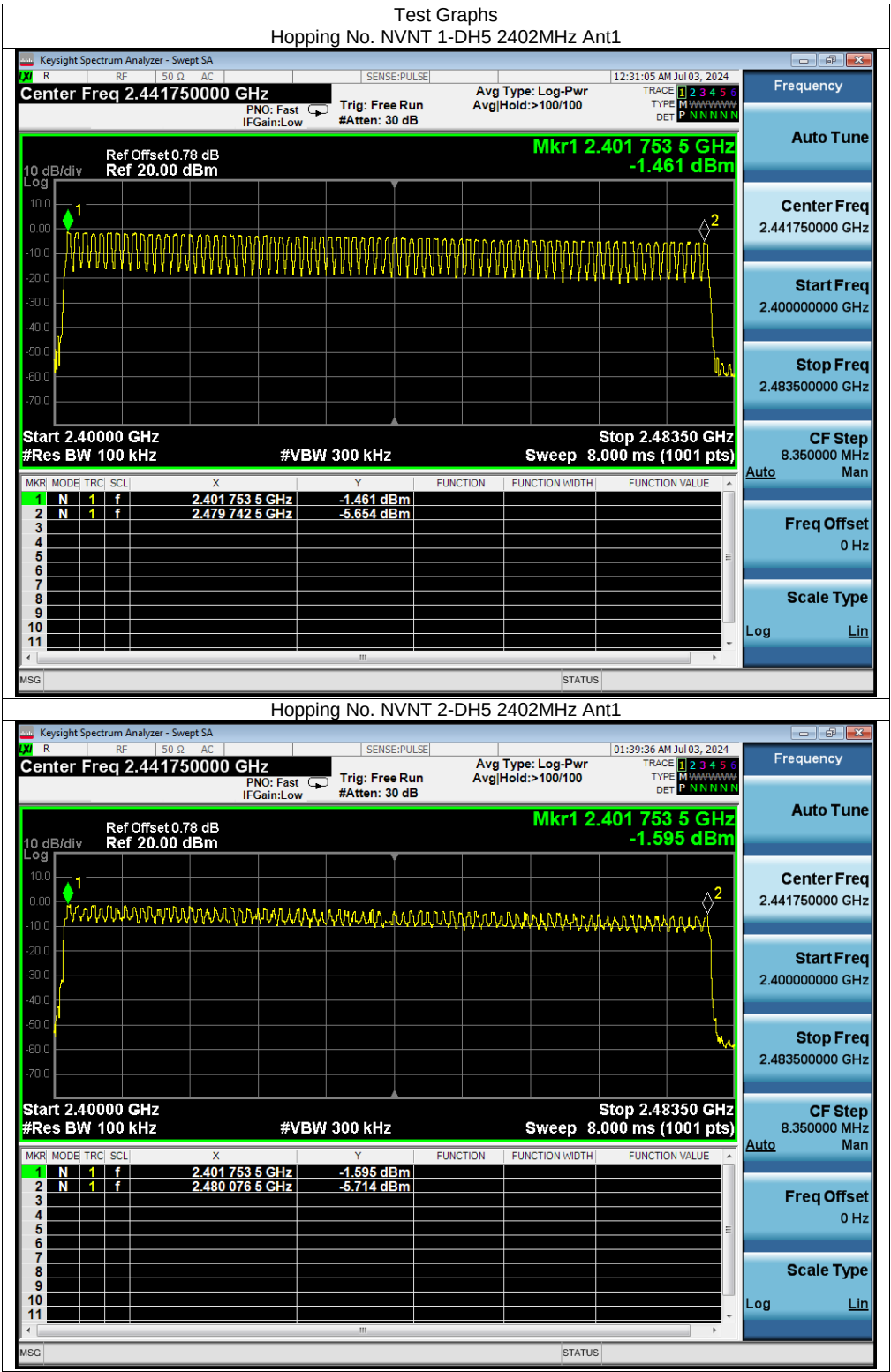






Number of Hopping Channel

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



Hopping No. NVNT 2-DH5 2402MHz Ant1

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.441750000 GHz

10 dB/div

Log

Ref Offset 0.78 dB

Ref 20.00 dBm

Mkr1 2.401 753 5 GHz

-1.595 dBm

Start 2.40000 GHz

#Res BW 100 kHz

#VBW 300 kHz

Stop 2.48350 GHz

Sweep 8.000 ms (1001 pts)

MR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.401 753 5 GHz	-1.595 dBm			
2	N	1	f	2.480 076 5 GHz	-5.714 dBm			

Frequency

Auto Tune

Center Freq

2.441750000 GHz

Start Freq

2.400000000 GHz

Stop Freq

2.483500000 GHz

CF Step

8.350000 MHz

Auto

Freq Offset

0 Hz

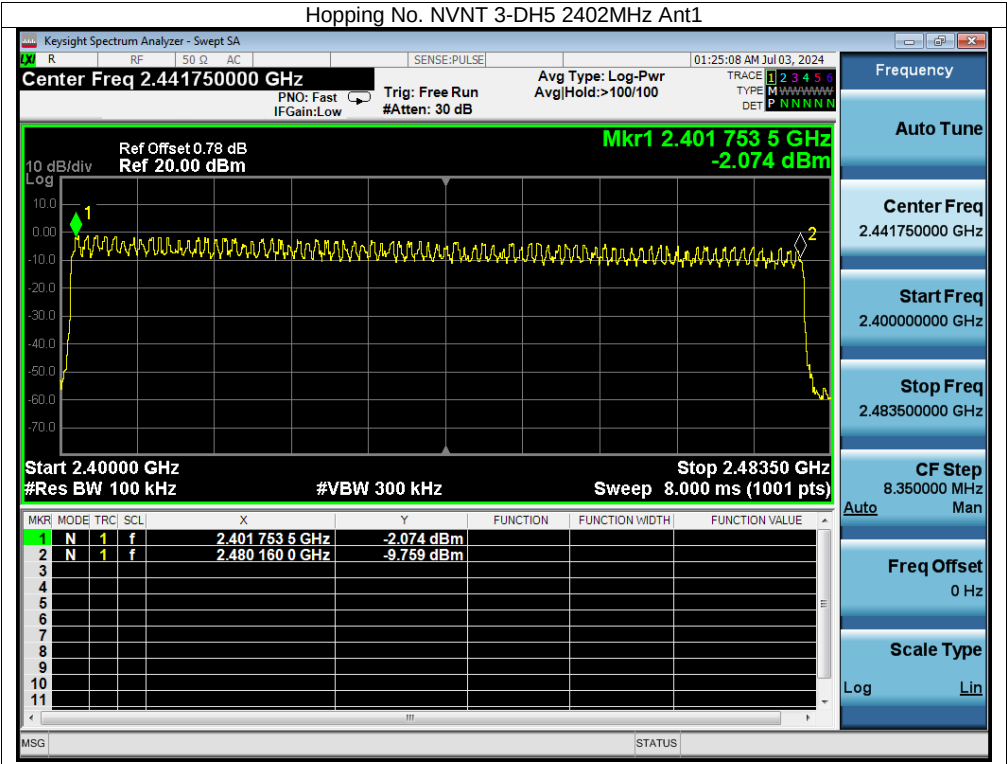
Scale Type

Log

Lin

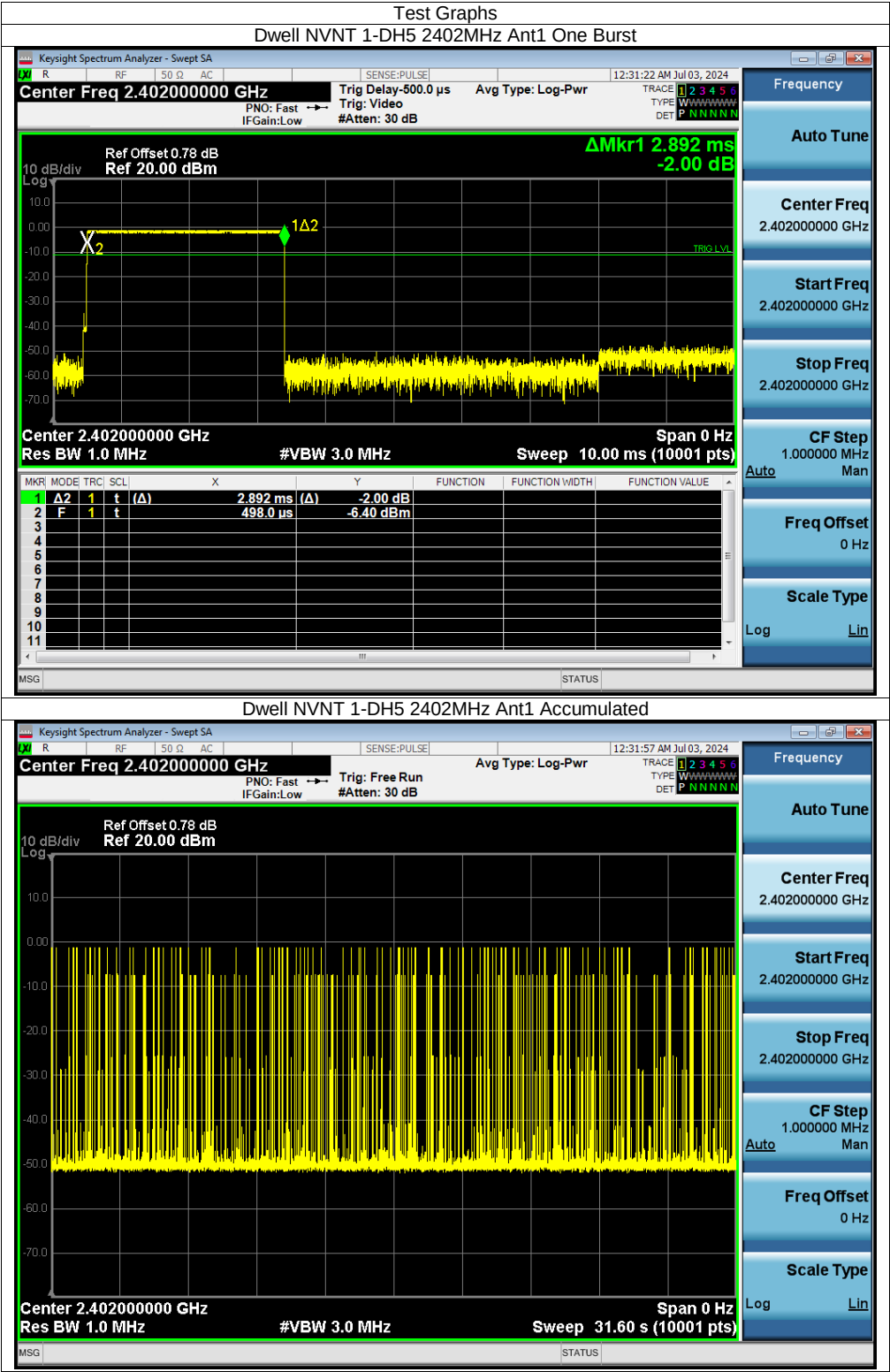
MSG

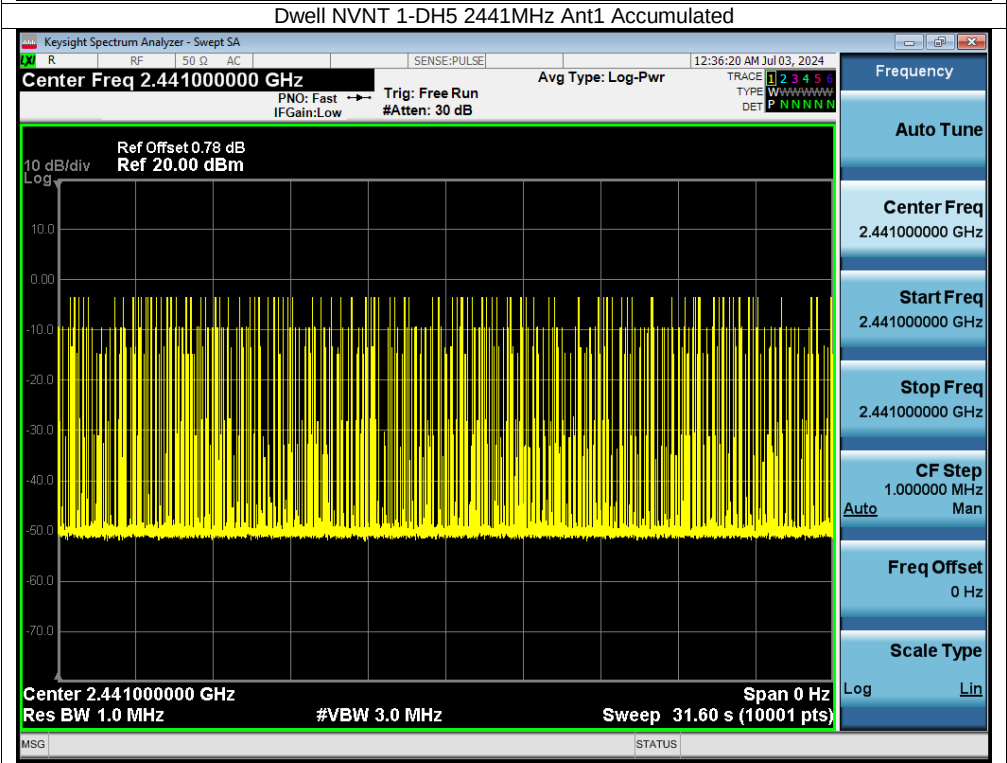
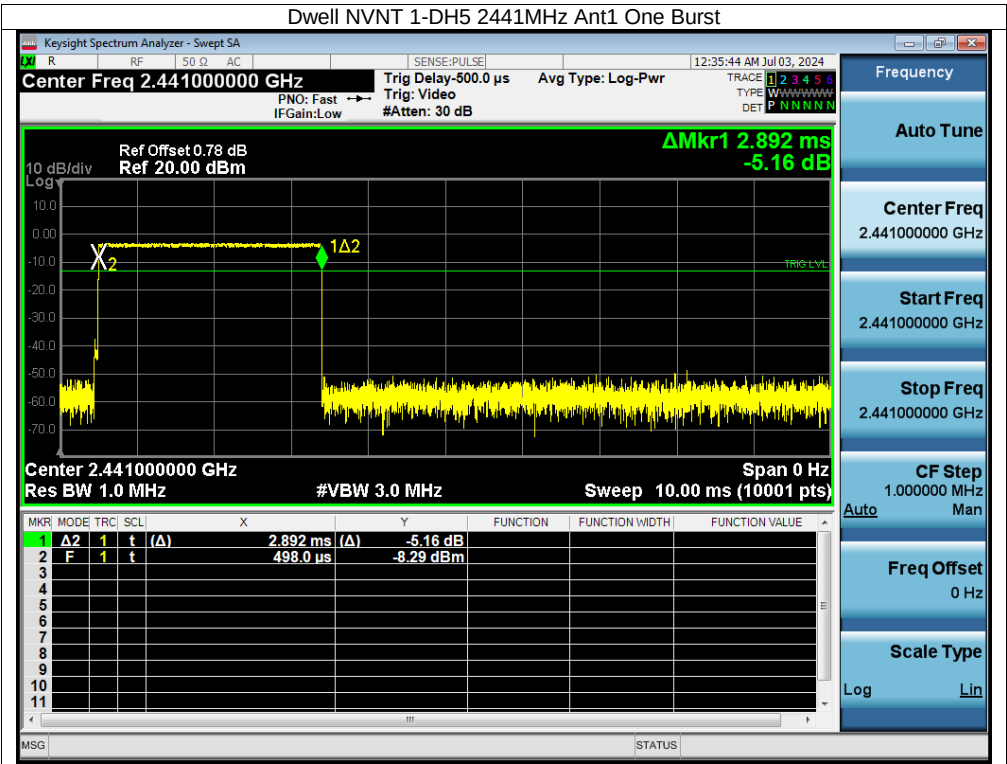
STATUS

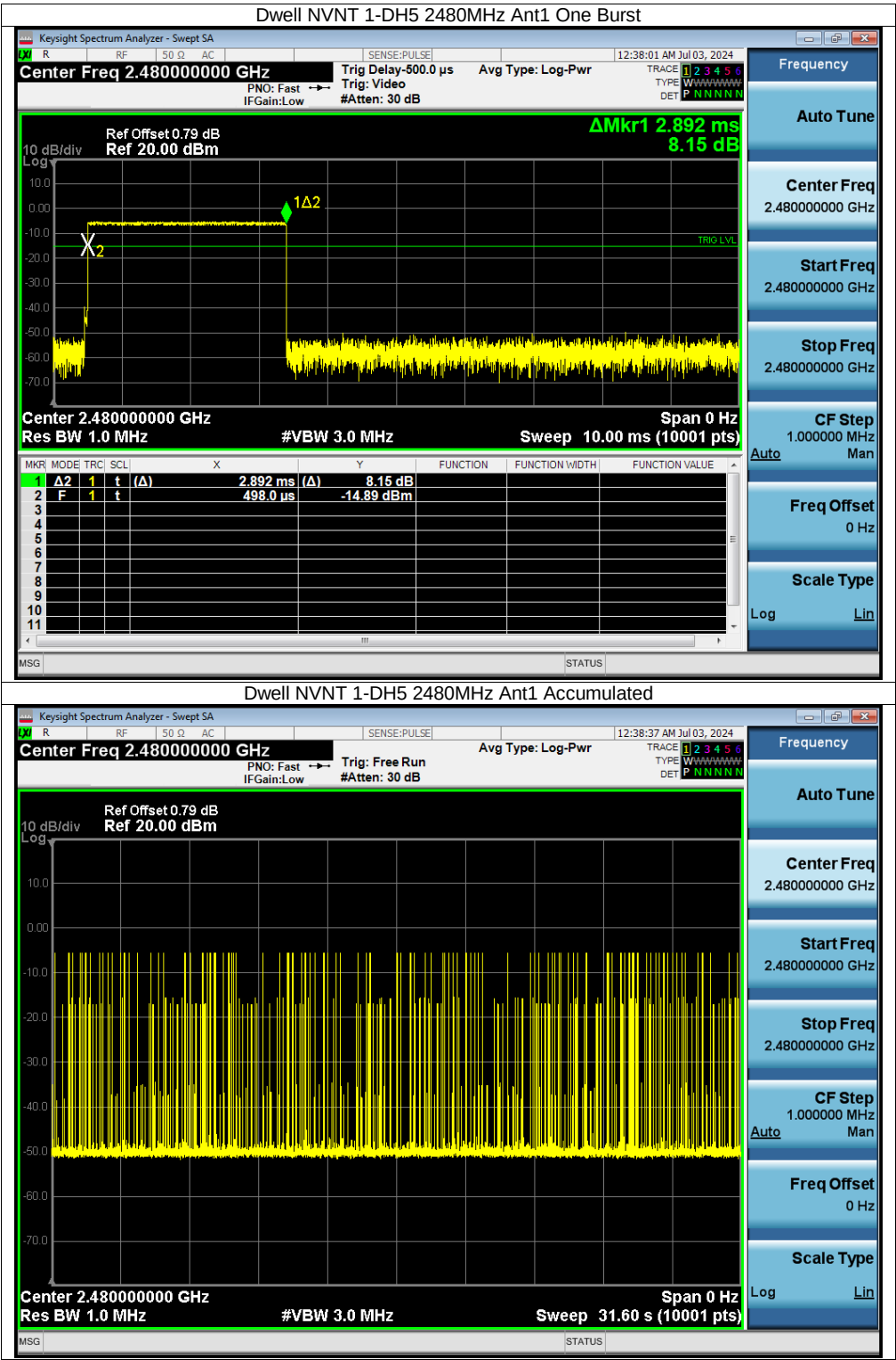


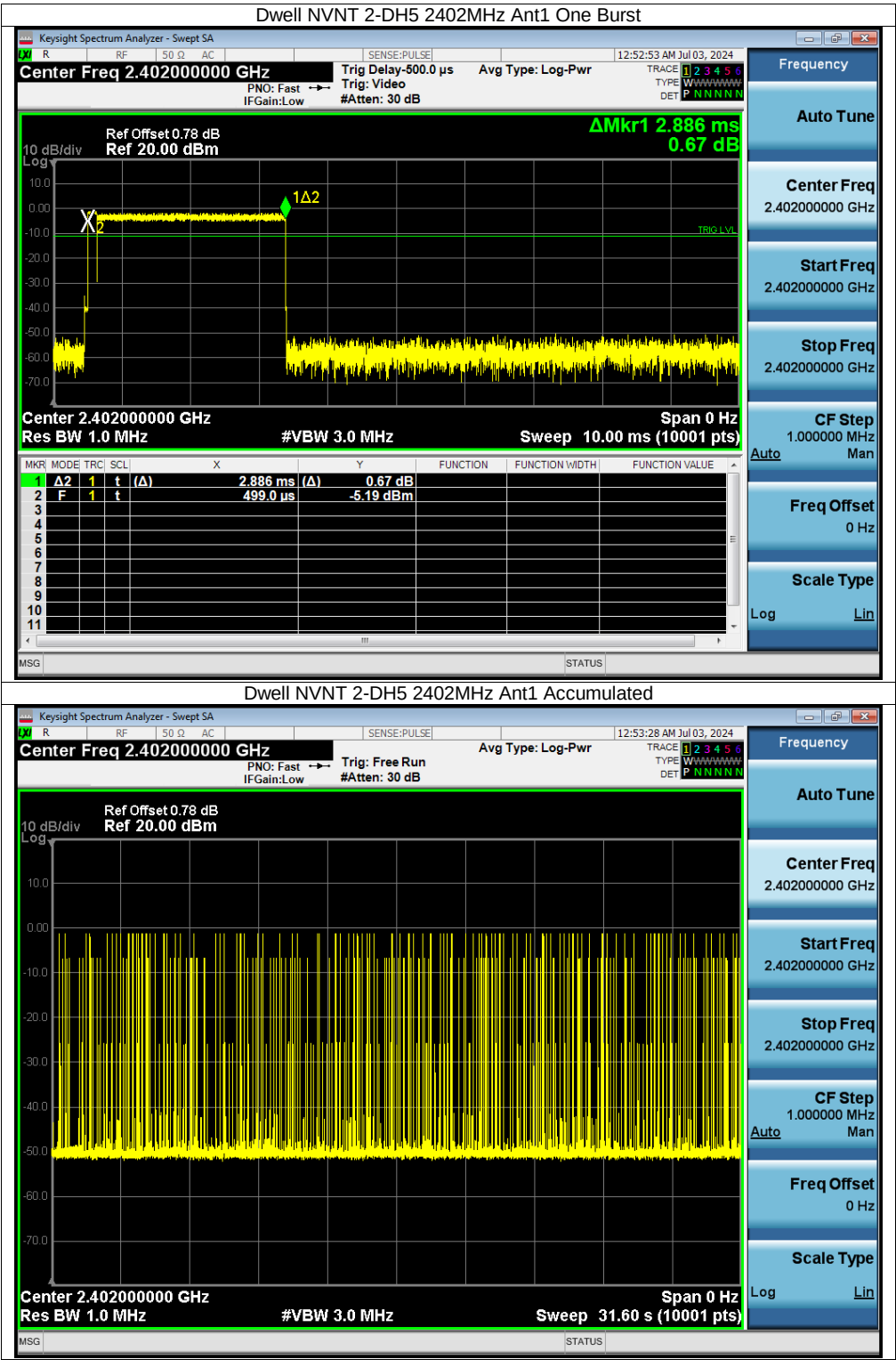
Dwell Time

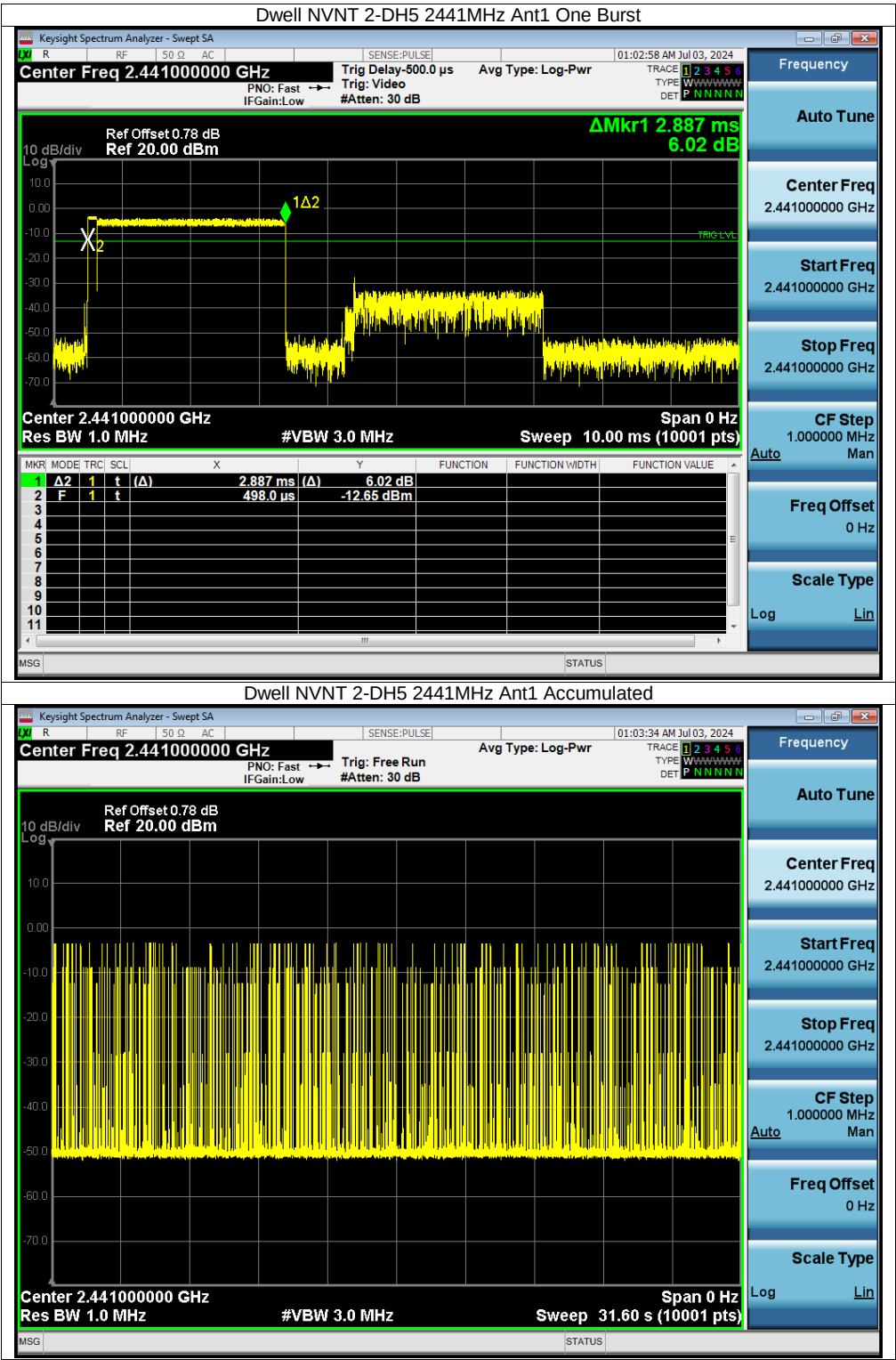
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.892	318.12	110	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.892	318.12	110	31600	400	Pass
NVNT	1-DH5	2480	Ant1	2.892	318.12	110	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.886	314.574	109	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.887	314.683	109	31600	400	Pass
NVNT	2-DH5	2480	Ant1	2.886	320.346	111	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.888	280.136	97	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.887	308.909	107	31600	400	Pass
NVNT	3-DH5	2480	Ant1	2.887	306.022	106	31600	400	Pass











Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig: Free Run

Avg Type: Log-Pwr

Trig: Free Run

PNO: Fast

IFGain:Low

#Atten: 30 dB

01:03:34 AM Jul 03, 2024

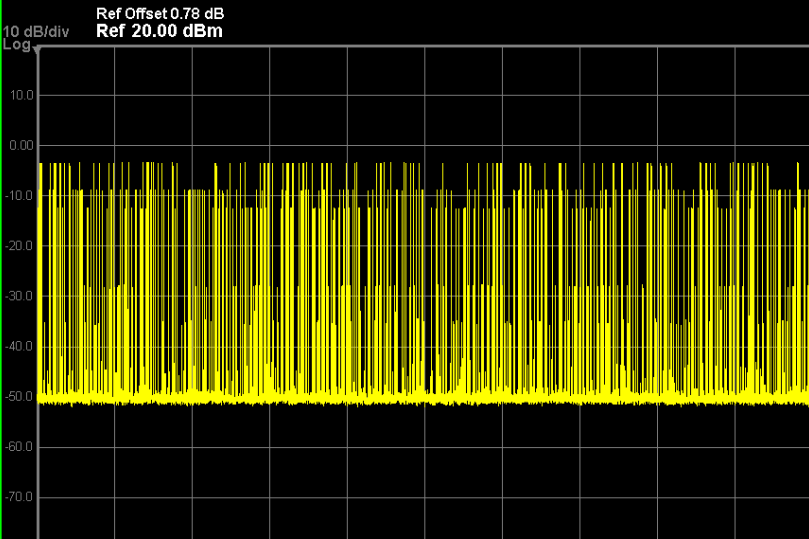
TRACE 1 2 3 4 5 6

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



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

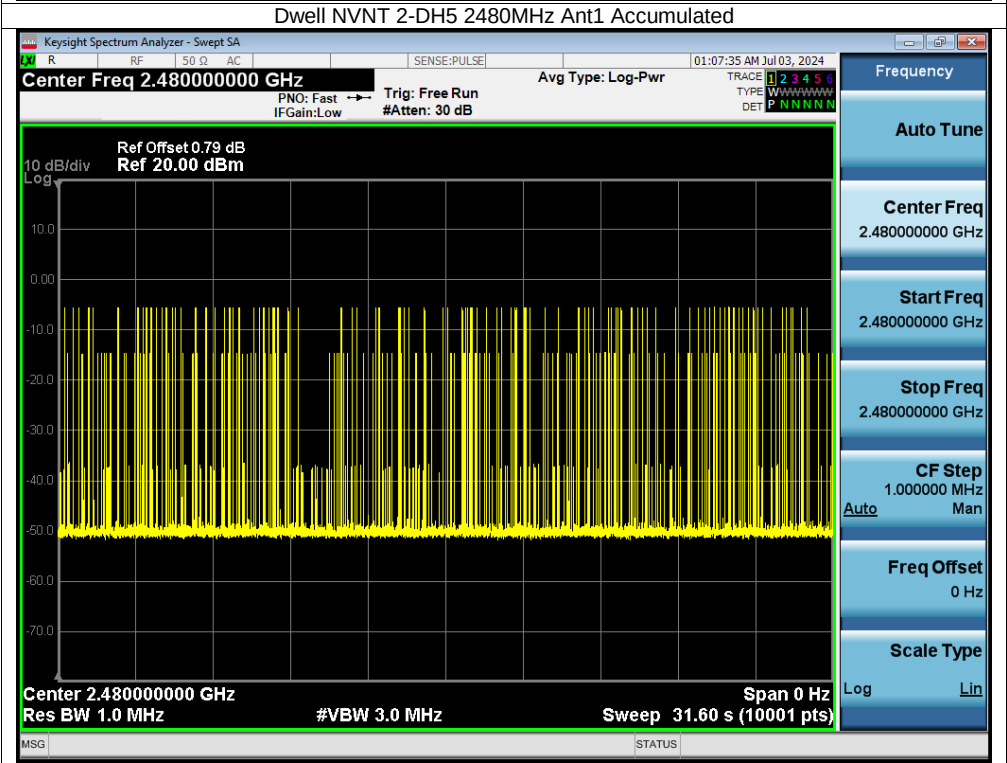
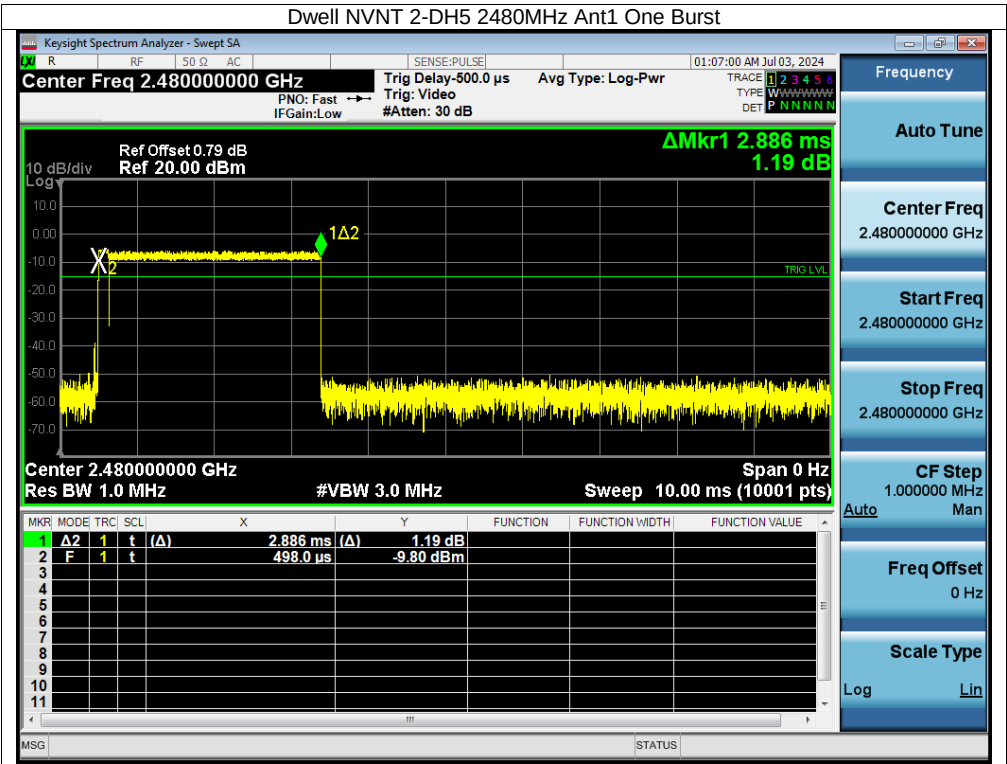
Stop Freq
2.441000000 GHz

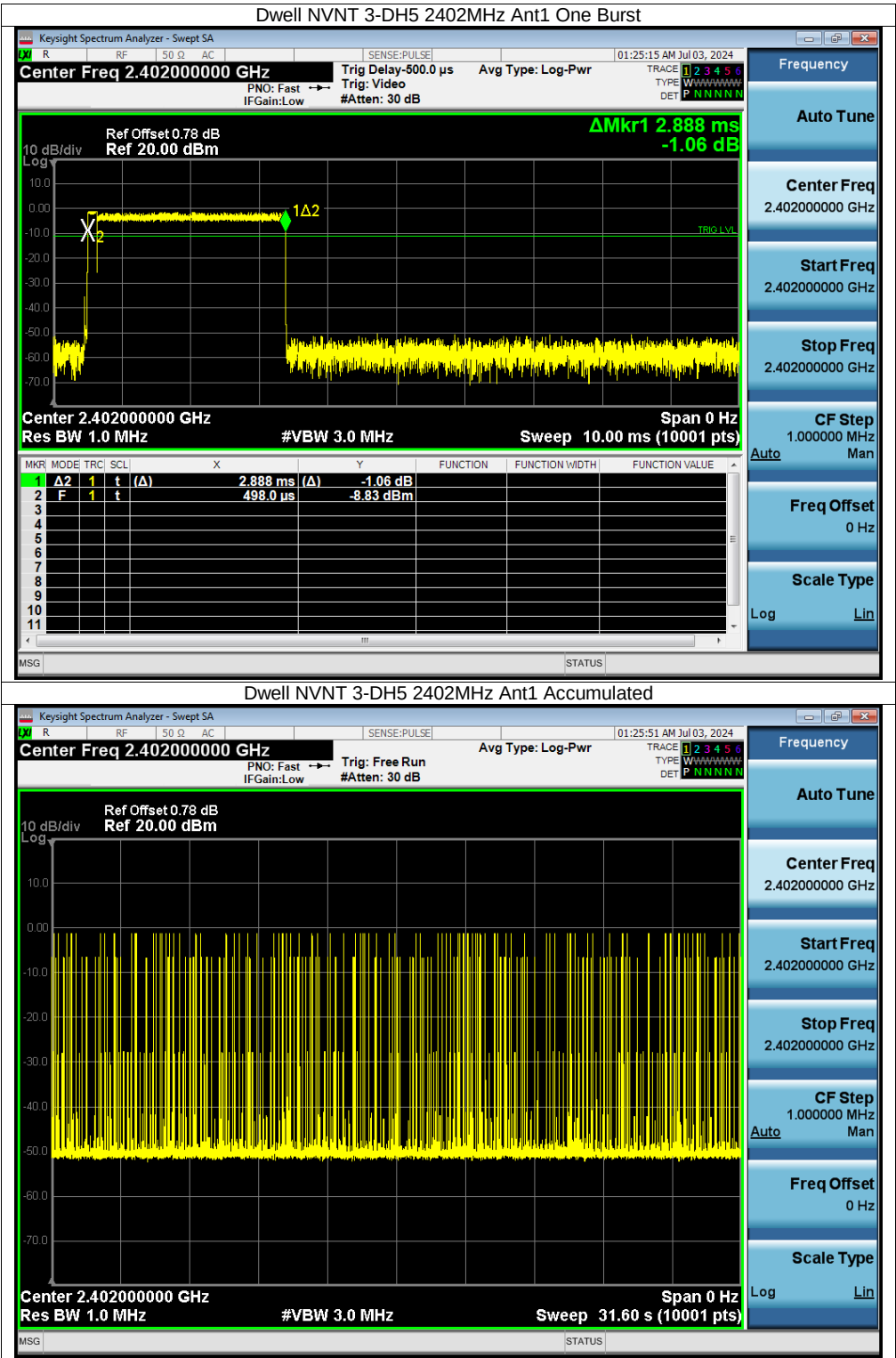
CF Step
1.000000 MHz

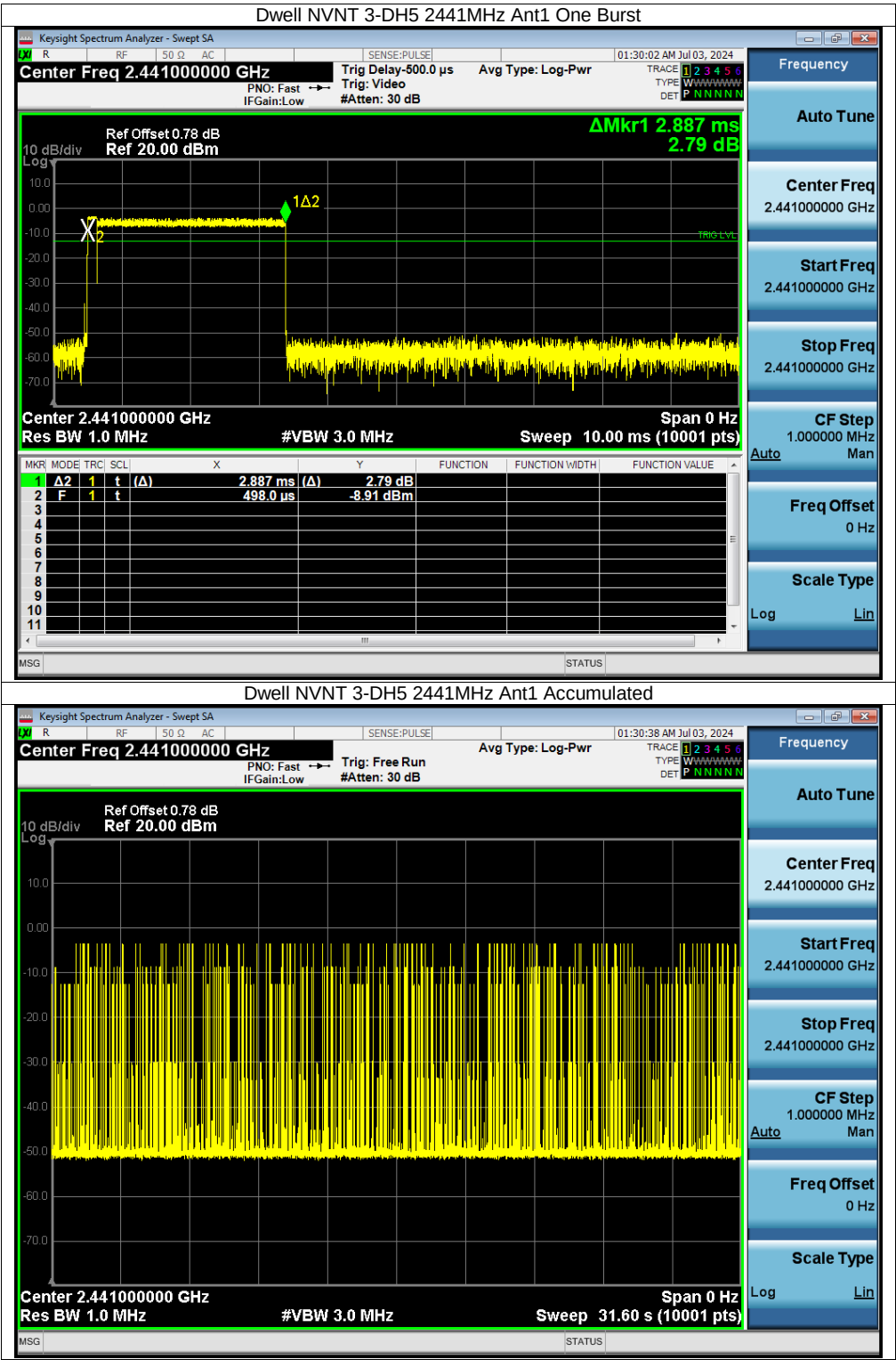
Auto Man

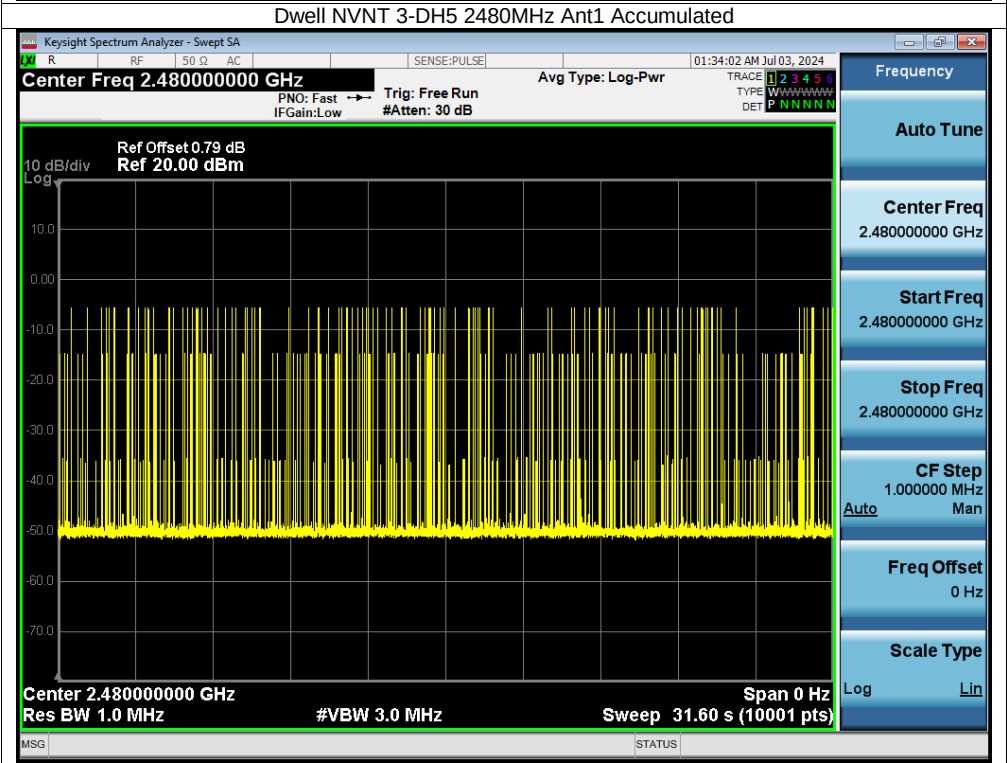
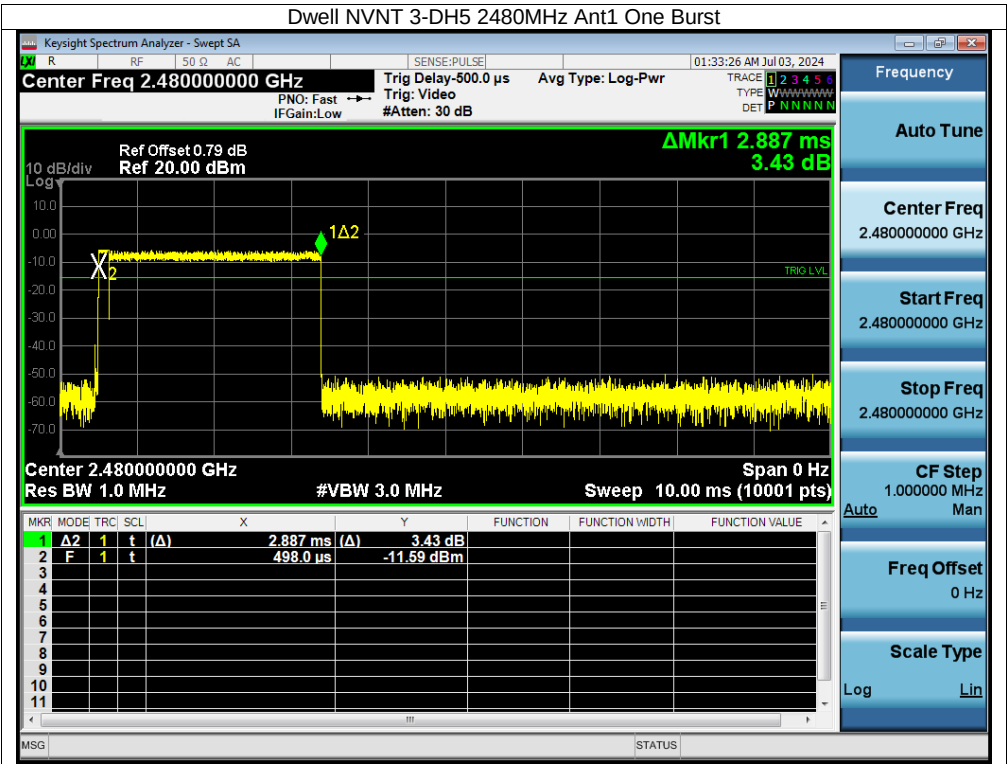
Freq Offset
0 Hz

Scale Type
Log Lin



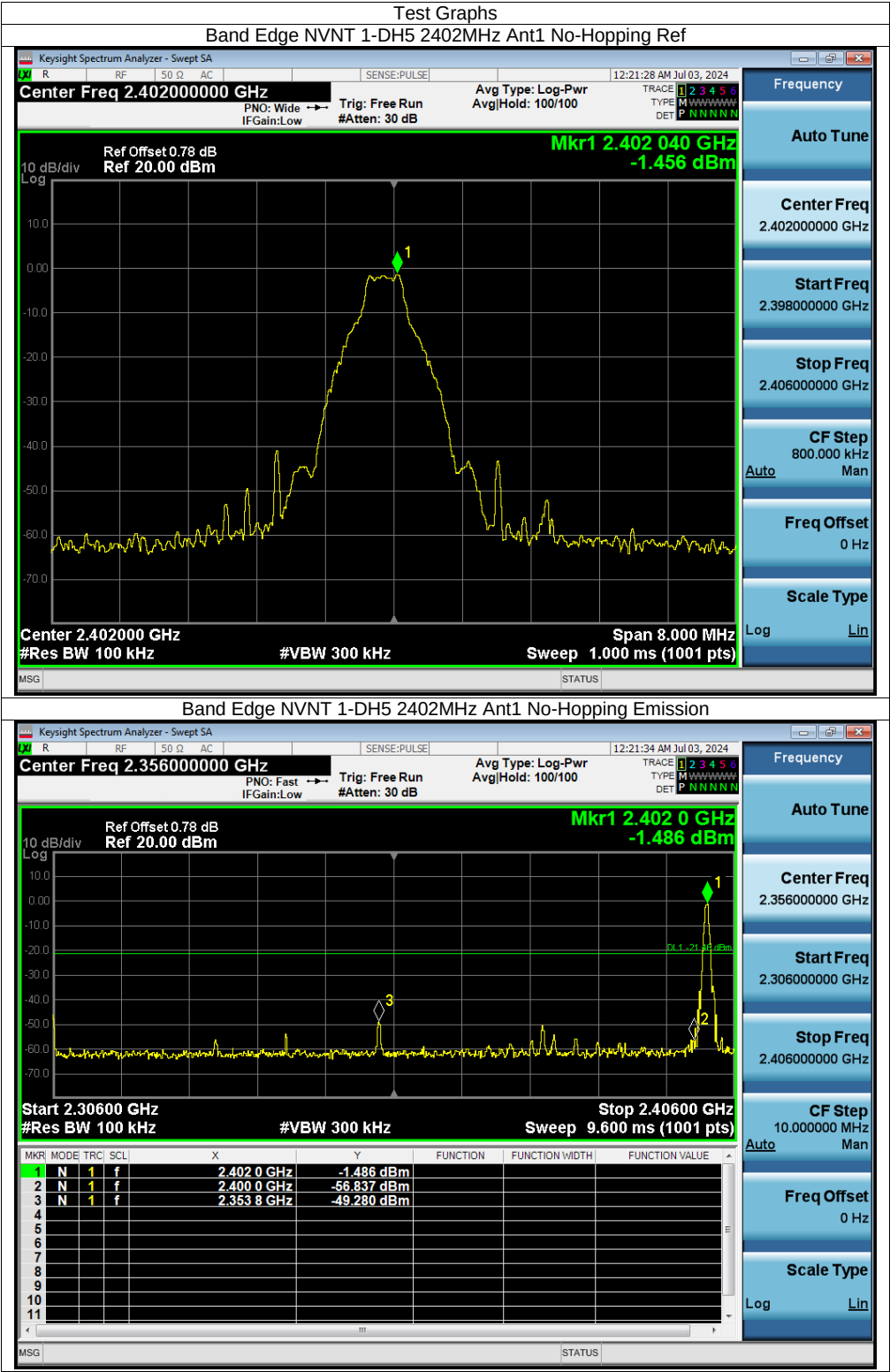


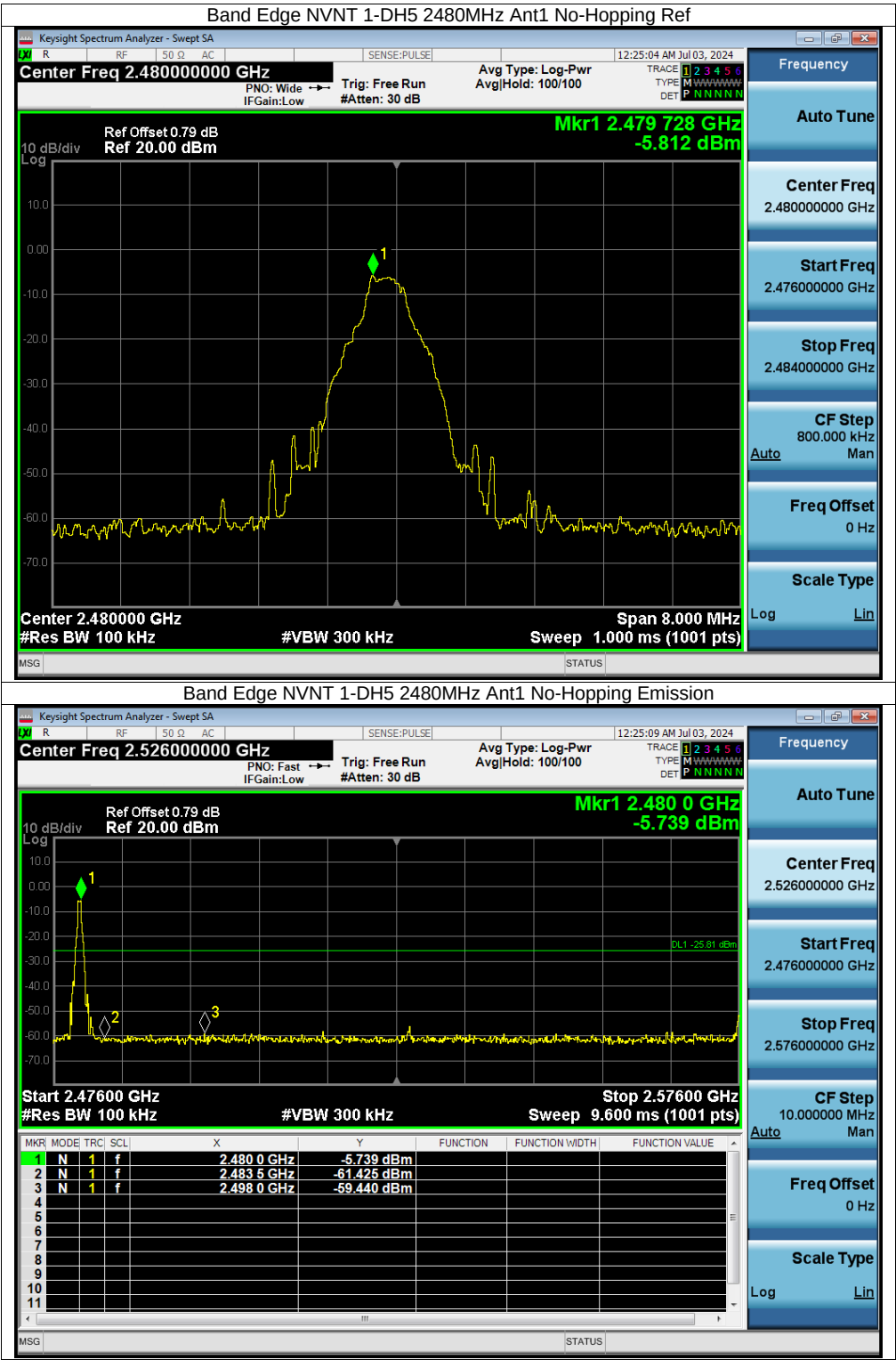


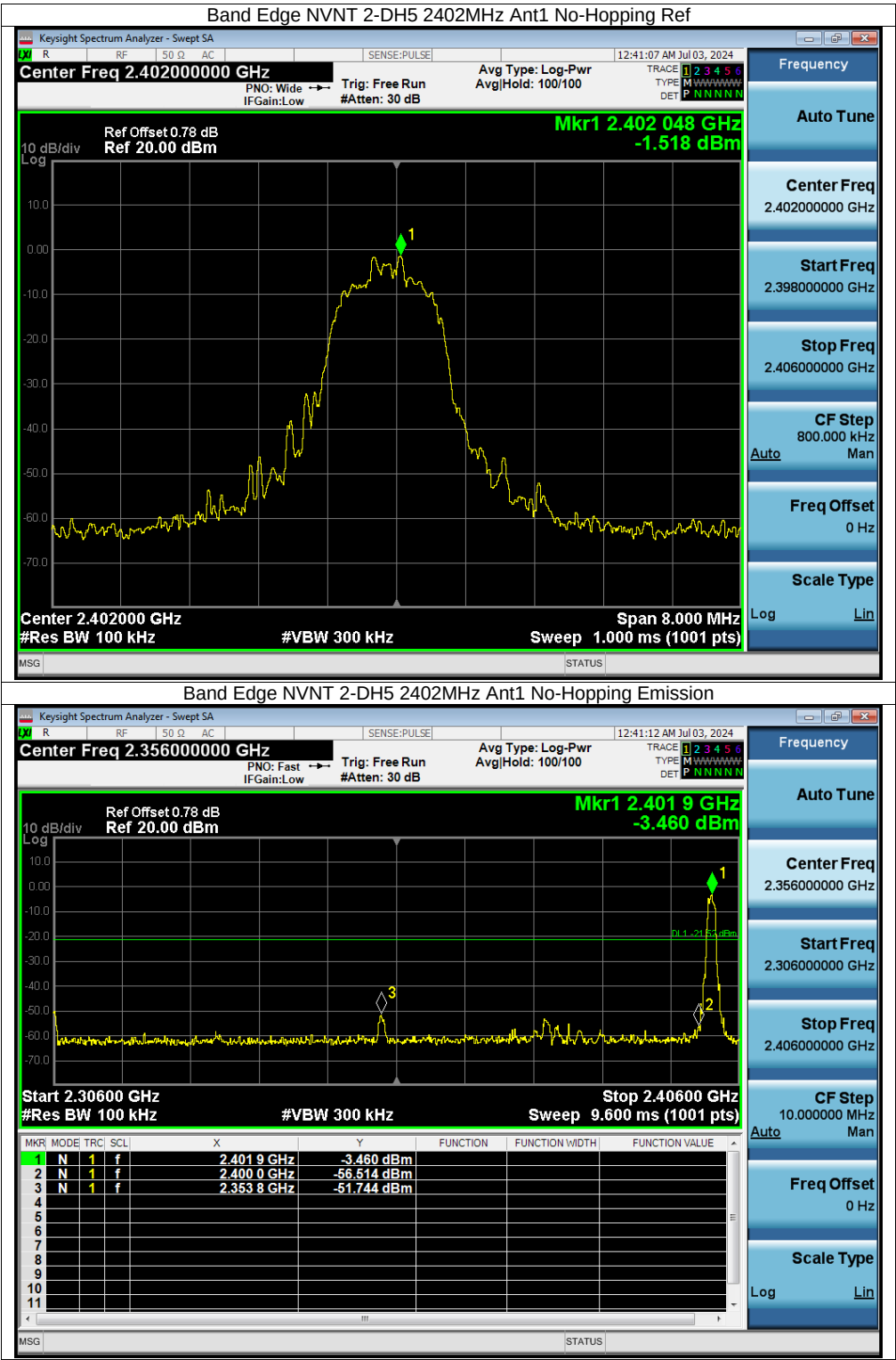


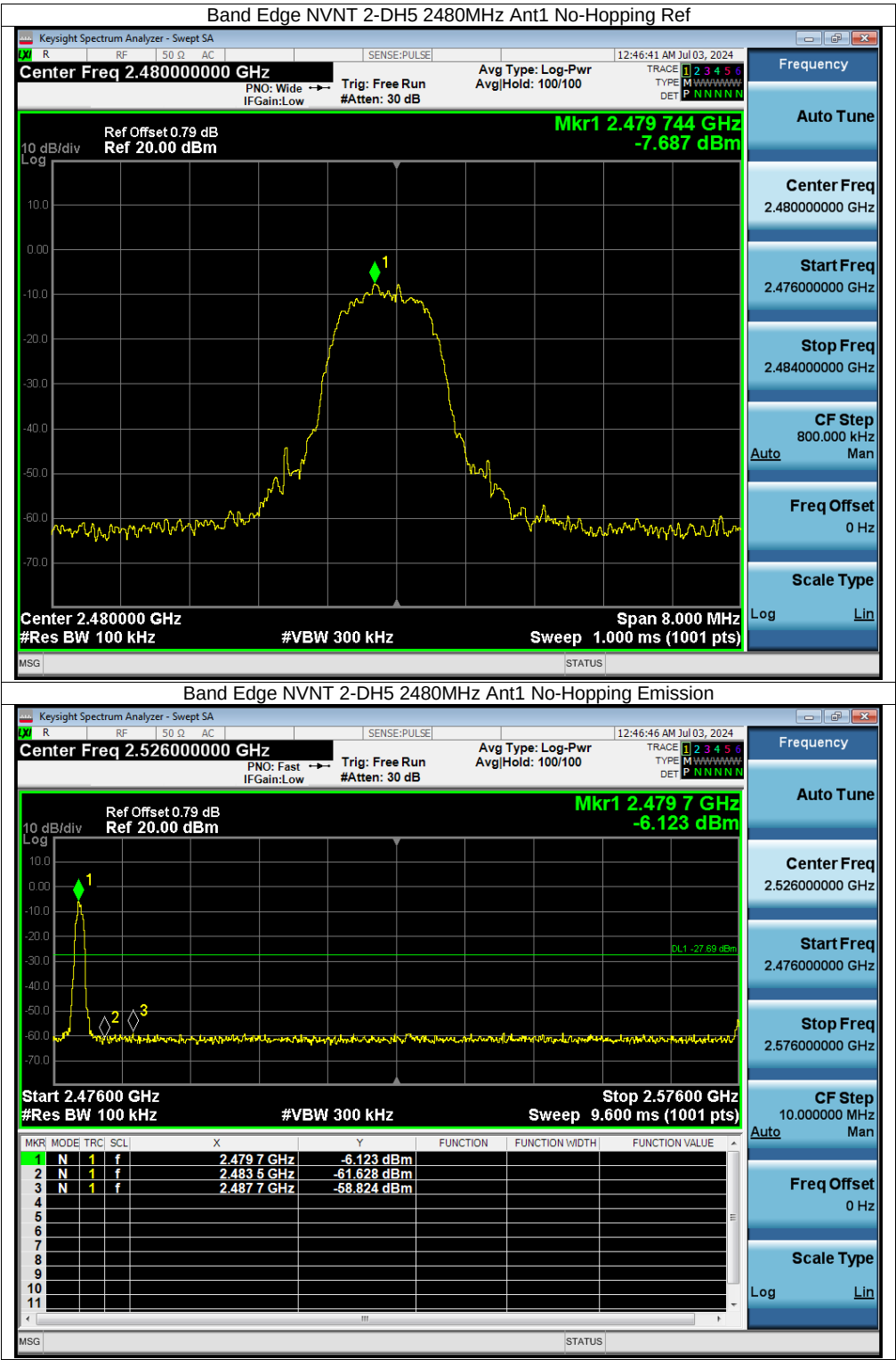
Band Edge

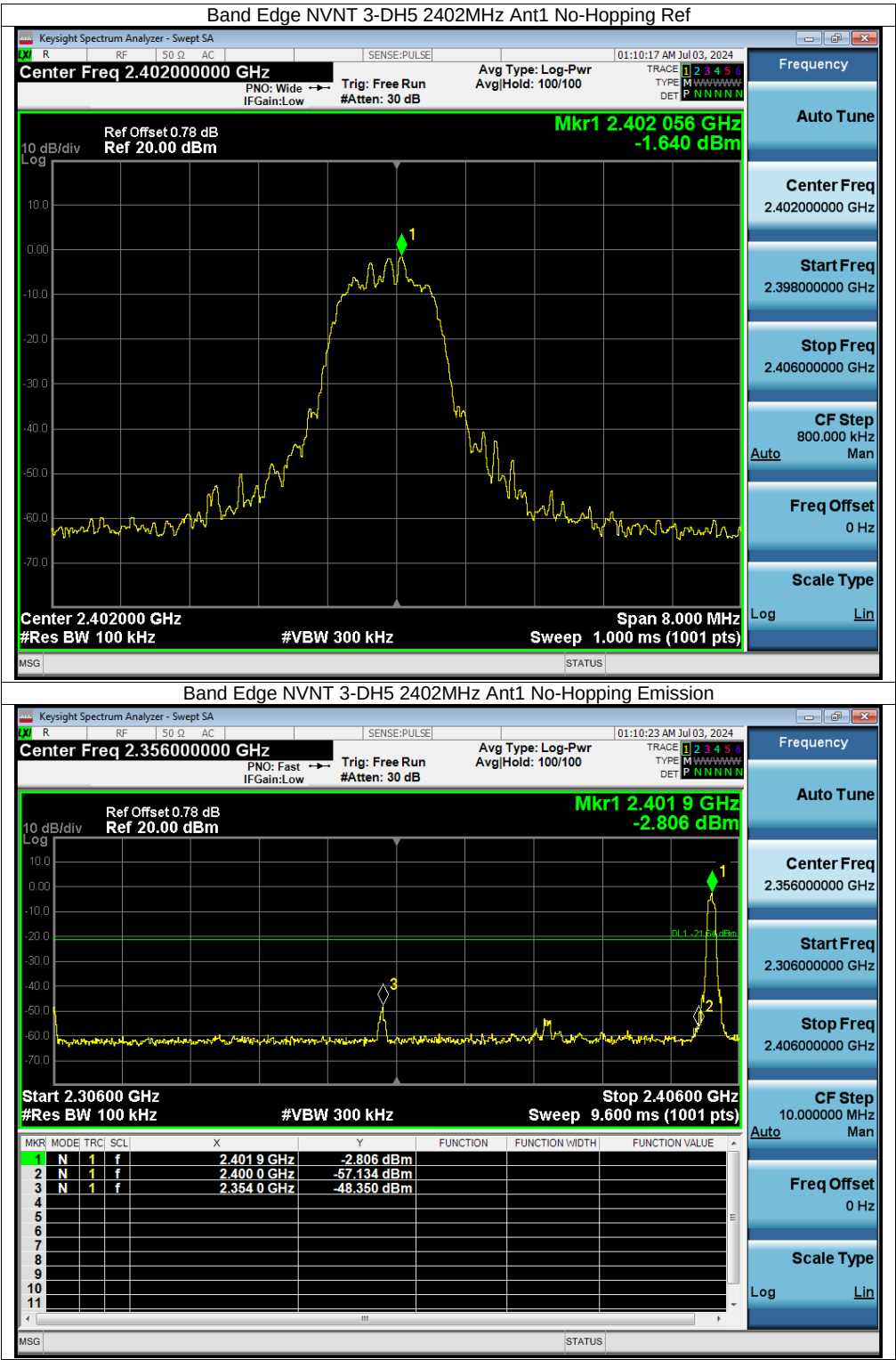
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-47.82	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-53.63	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-50.22	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-51.13	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-46.71	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-50.8	-20	Pass

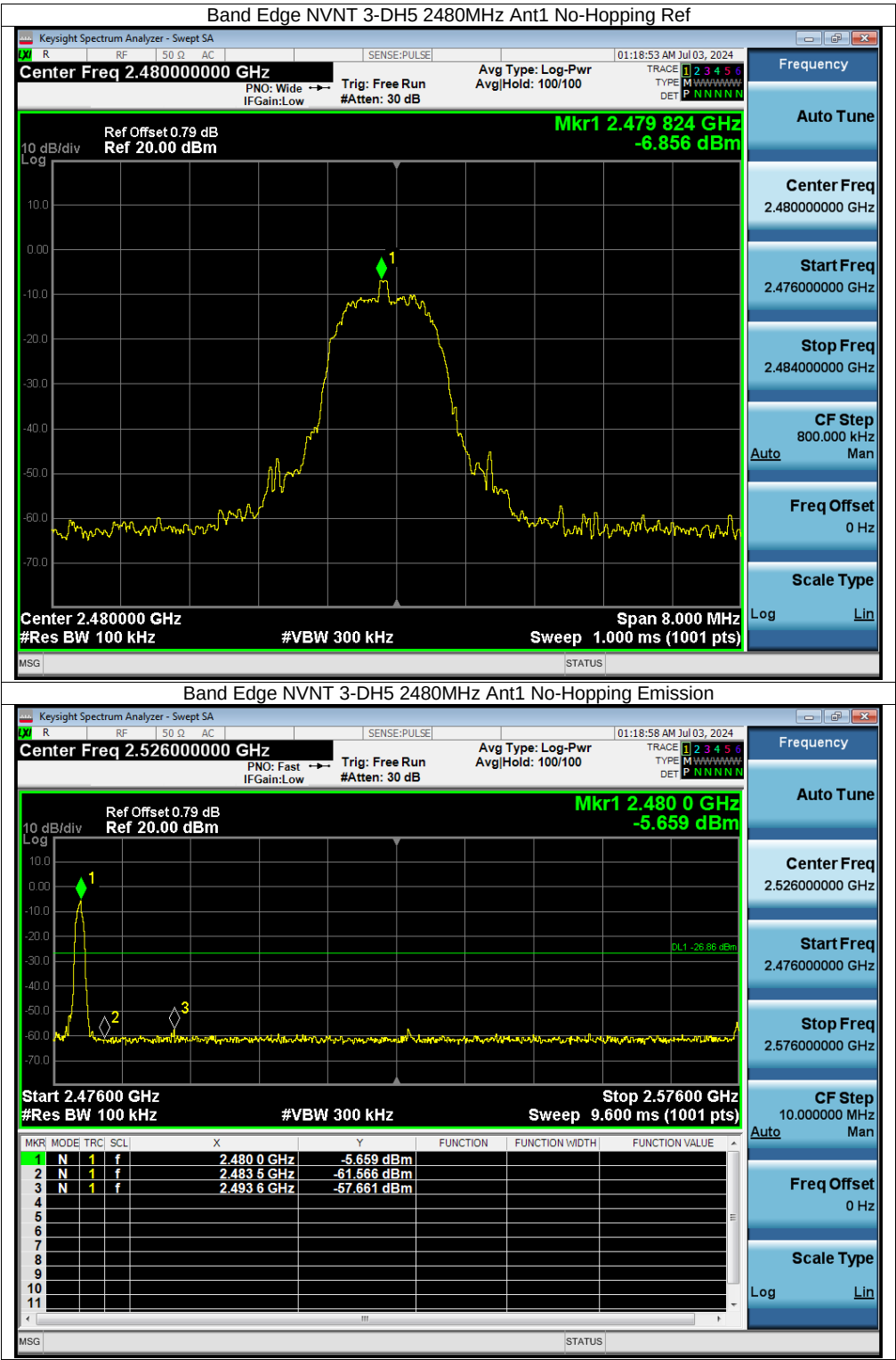






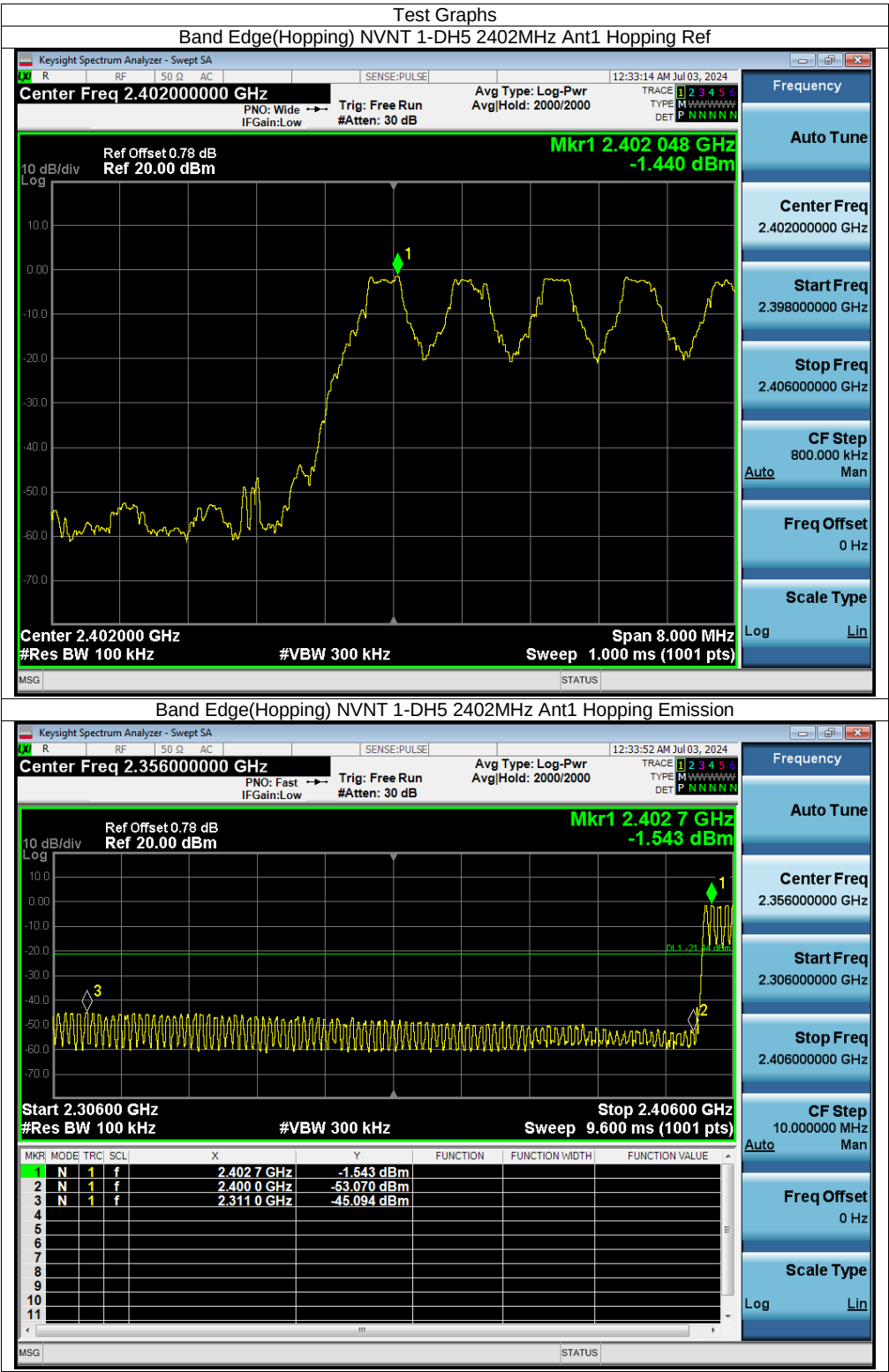




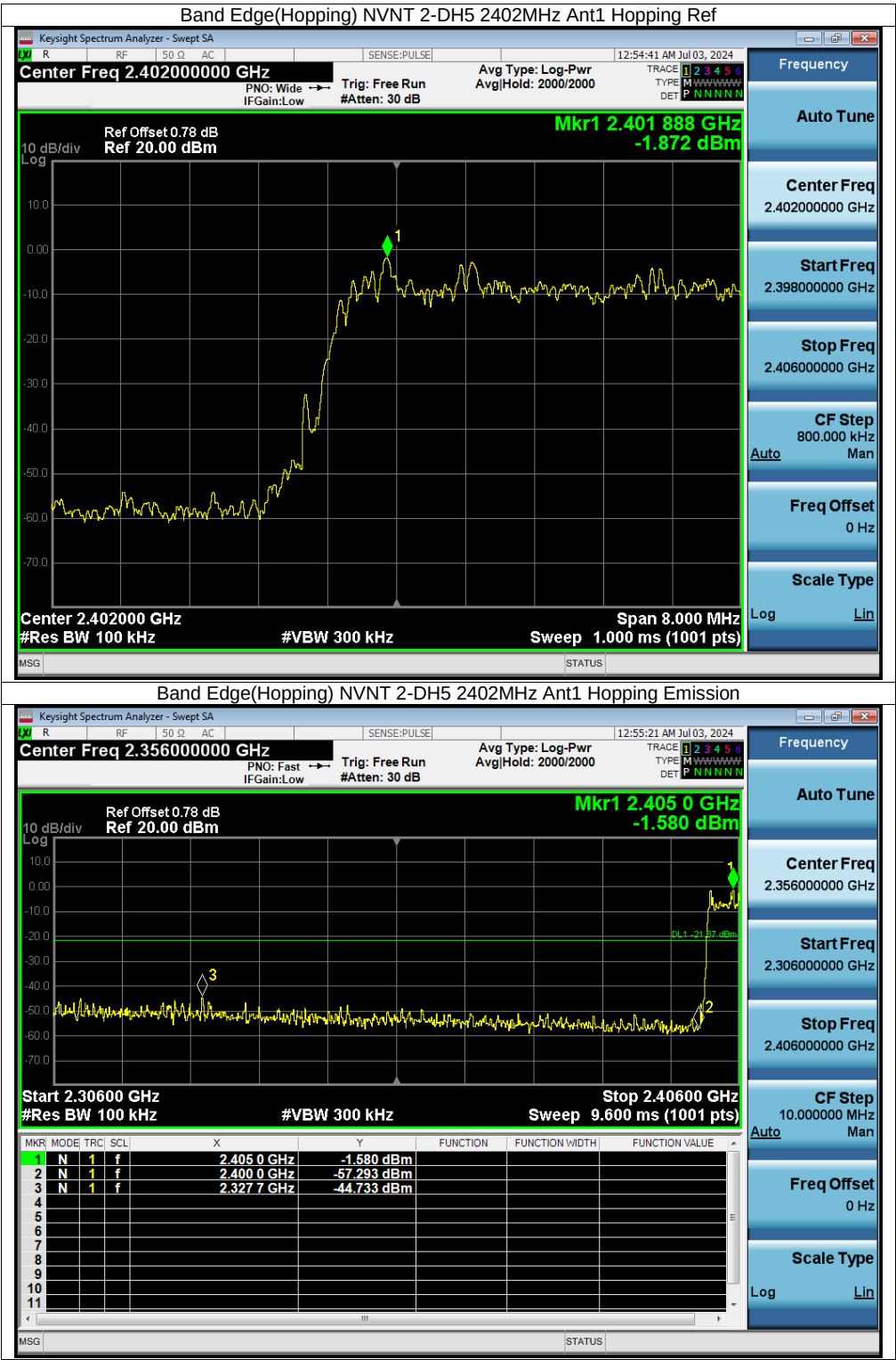


Band Edge(Hopping)

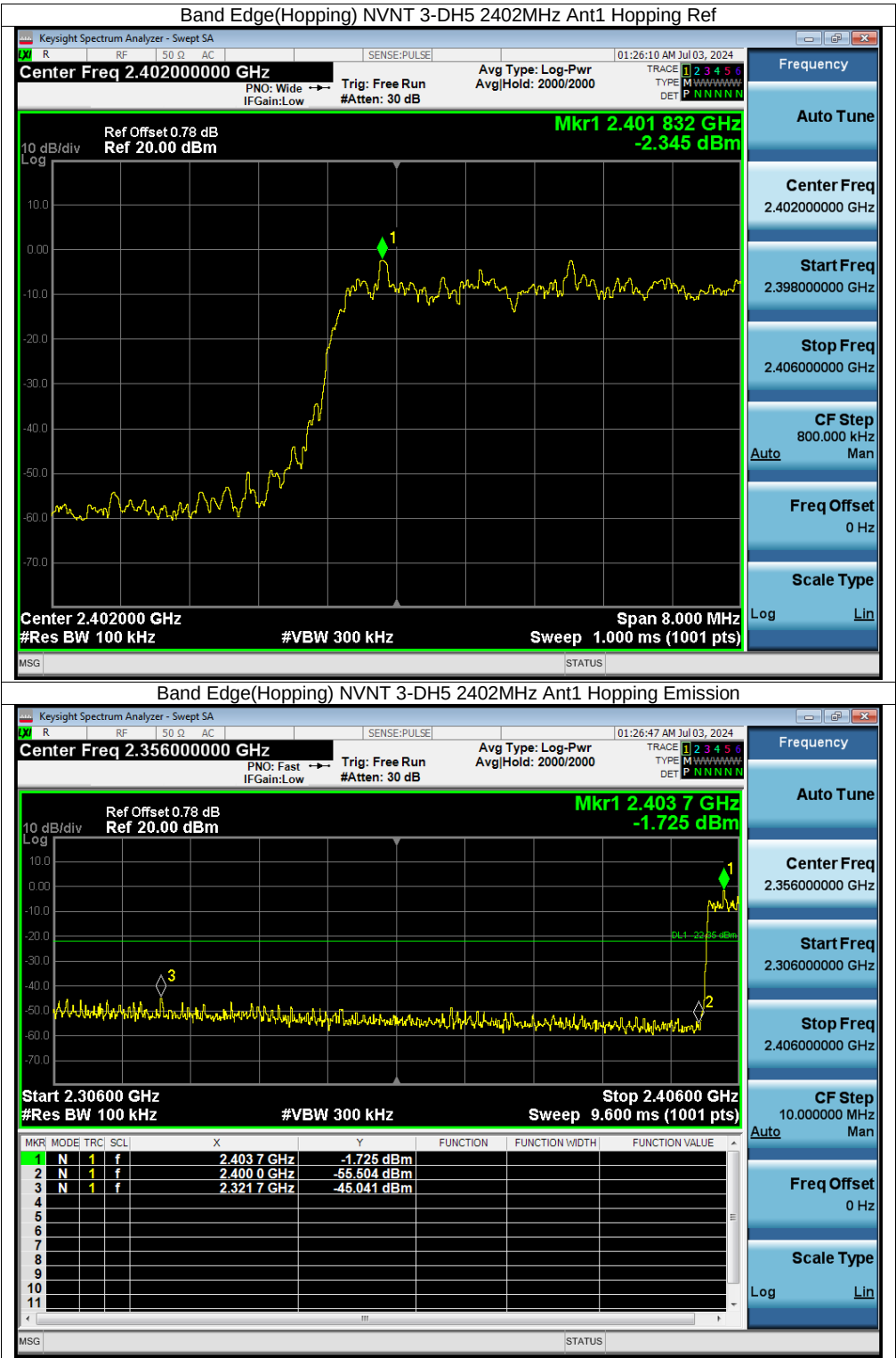
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-43.65	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-43.49	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-42.86	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-43.63	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-42.7	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-43.62	-20	Pass

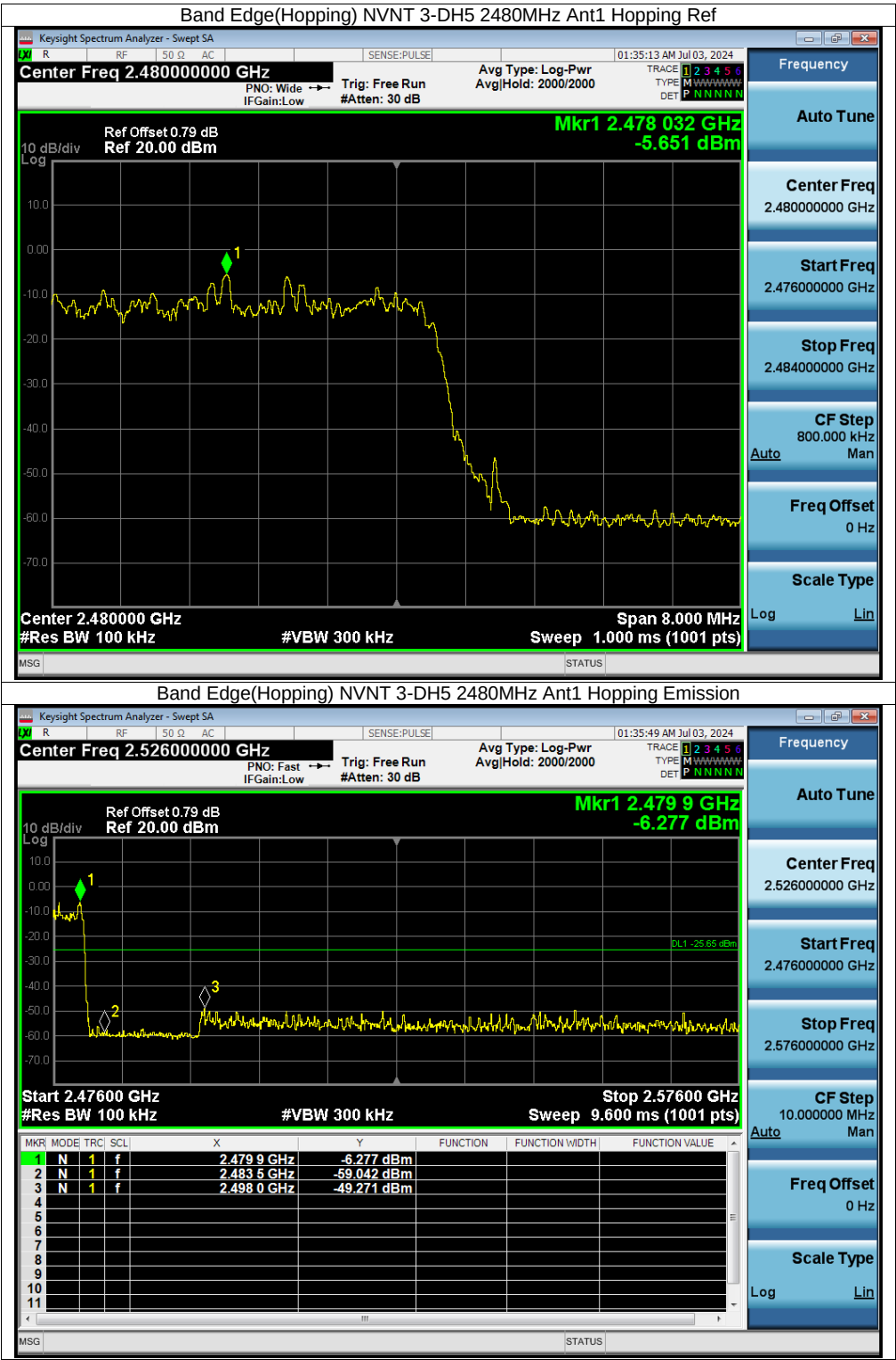






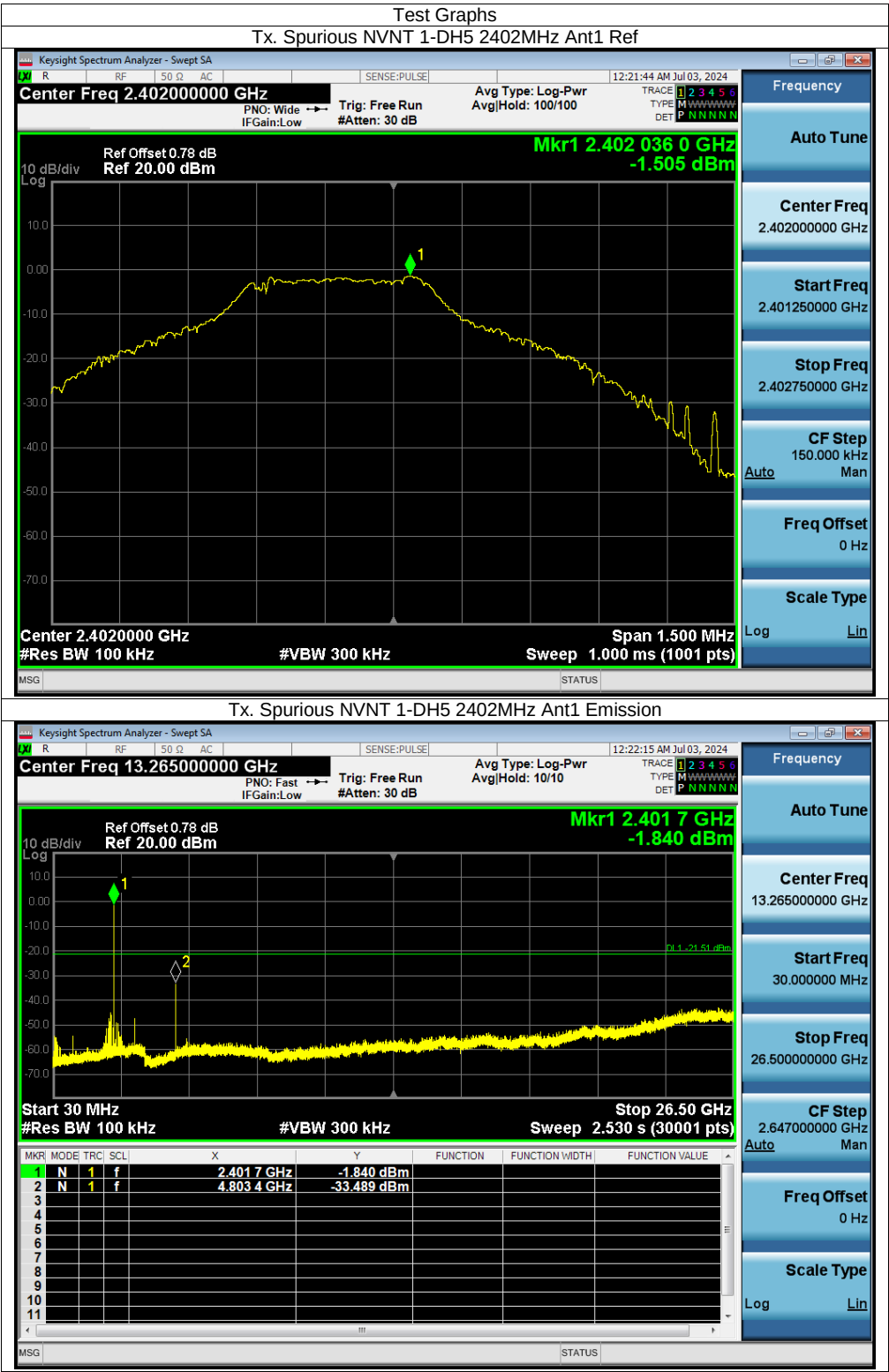




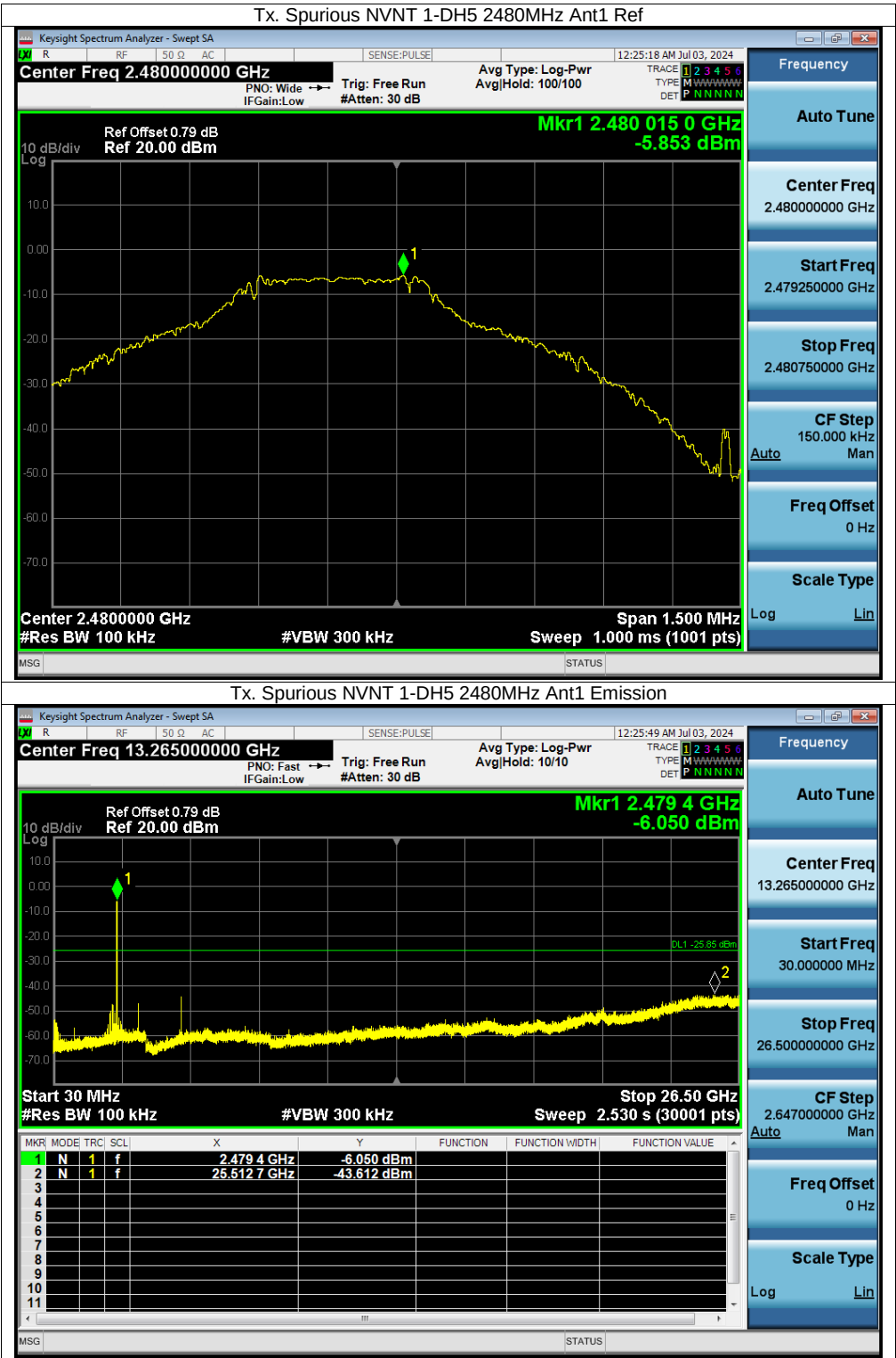


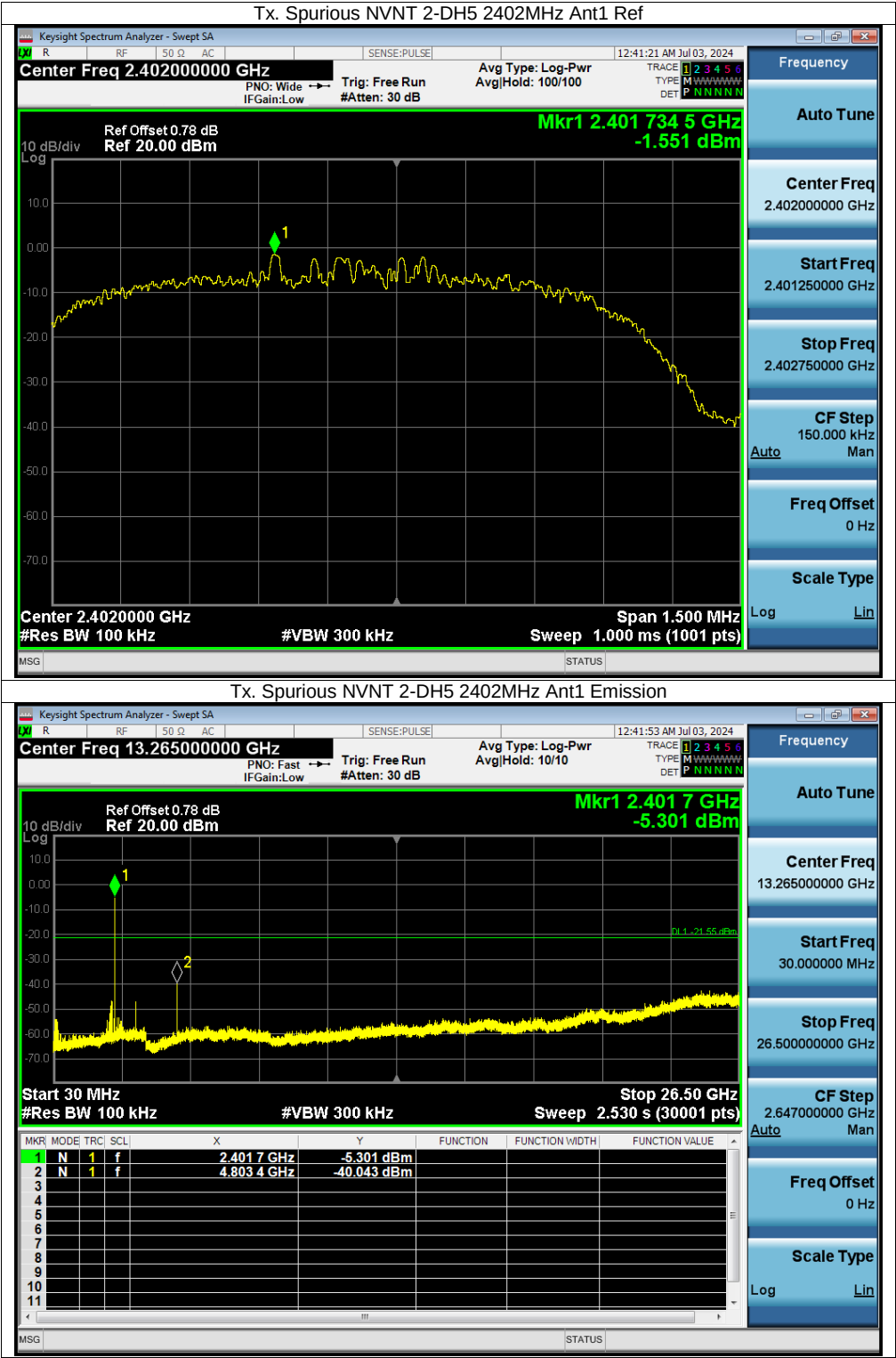
Conducted RF Spurious Emission

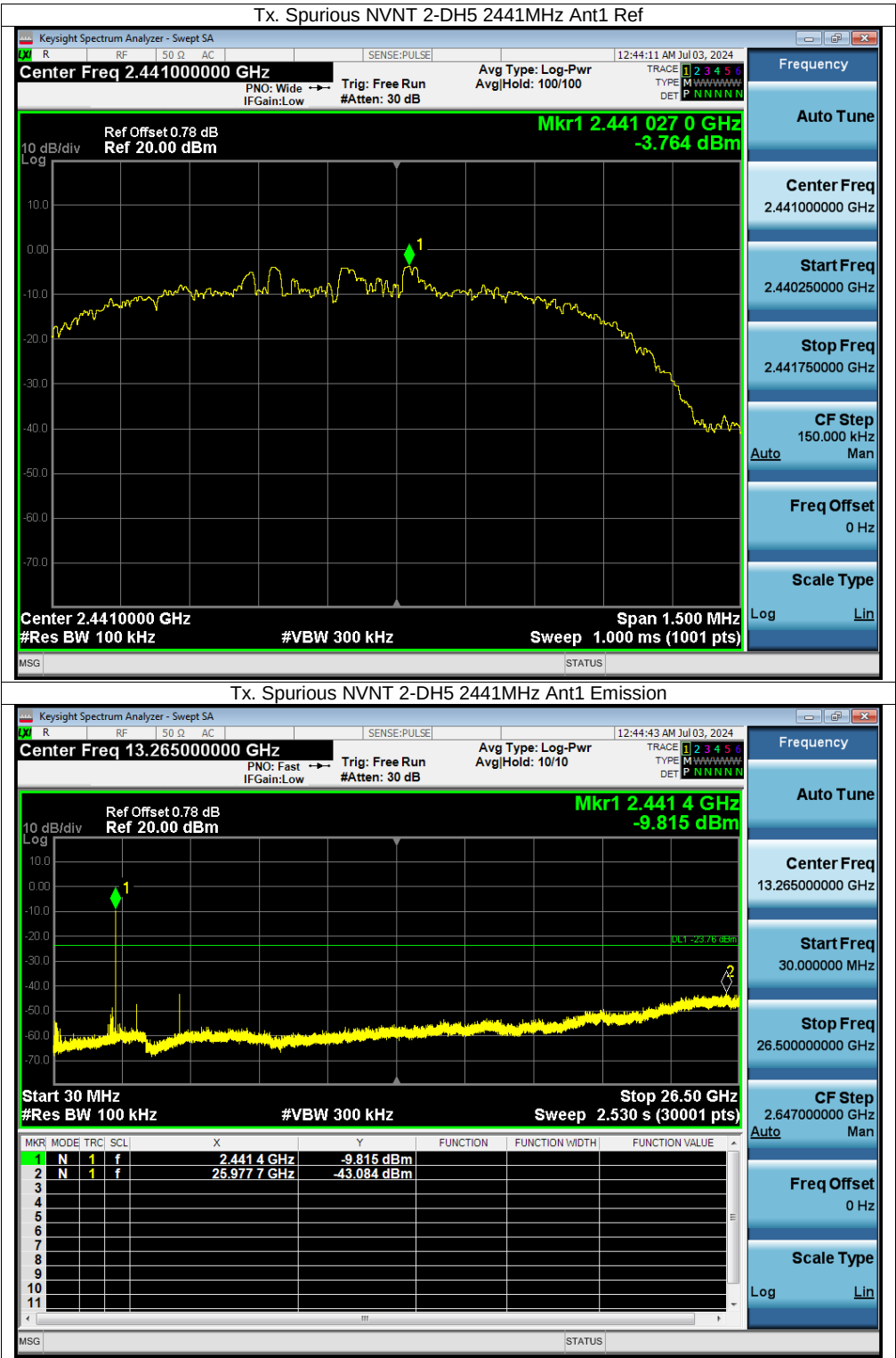
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-31.99	-20	Pass
NVNT	1-DH5	2441	Ant1	-35.11	-20	Pass
NVNT	1-DH5	2480	Ant1	-37.76	-20	Pass
NVNT	2-DH5	2402	Ant1	-38.49	-20	Pass
NVNT	2-DH5	2441	Ant1	-39.32	-20	Pass
NVNT	2-DH5	2480	Ant1	-37.68	-20	Pass
NVNT	3-DH5	2402	Ant1	-39.08	-20	Pass
NVNT	3-DH5	2441	Ant1	-38.98	-20	Pass
NVNT	3-DH5	2480	Ant1	-37.42	-20	Pass

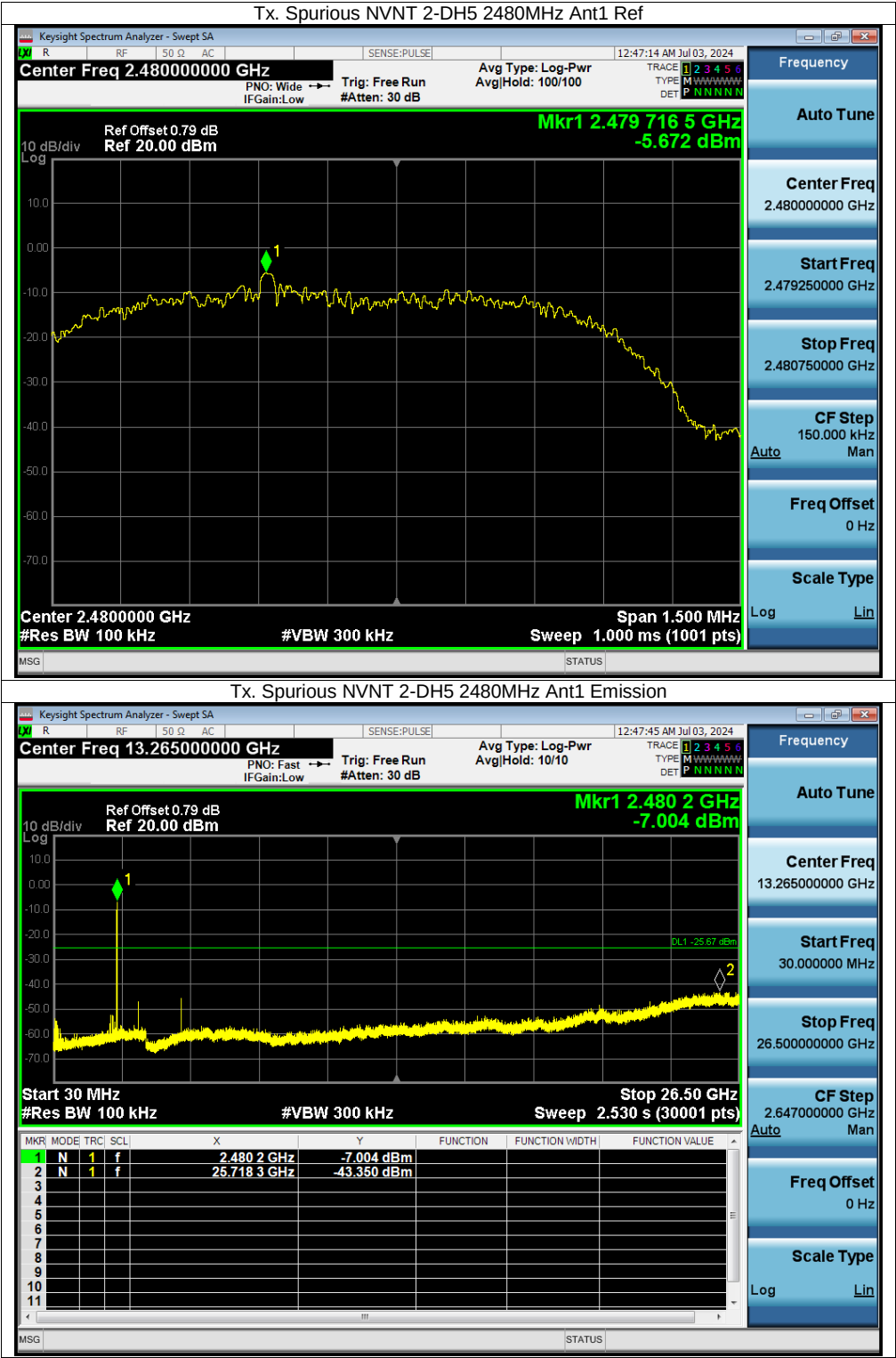


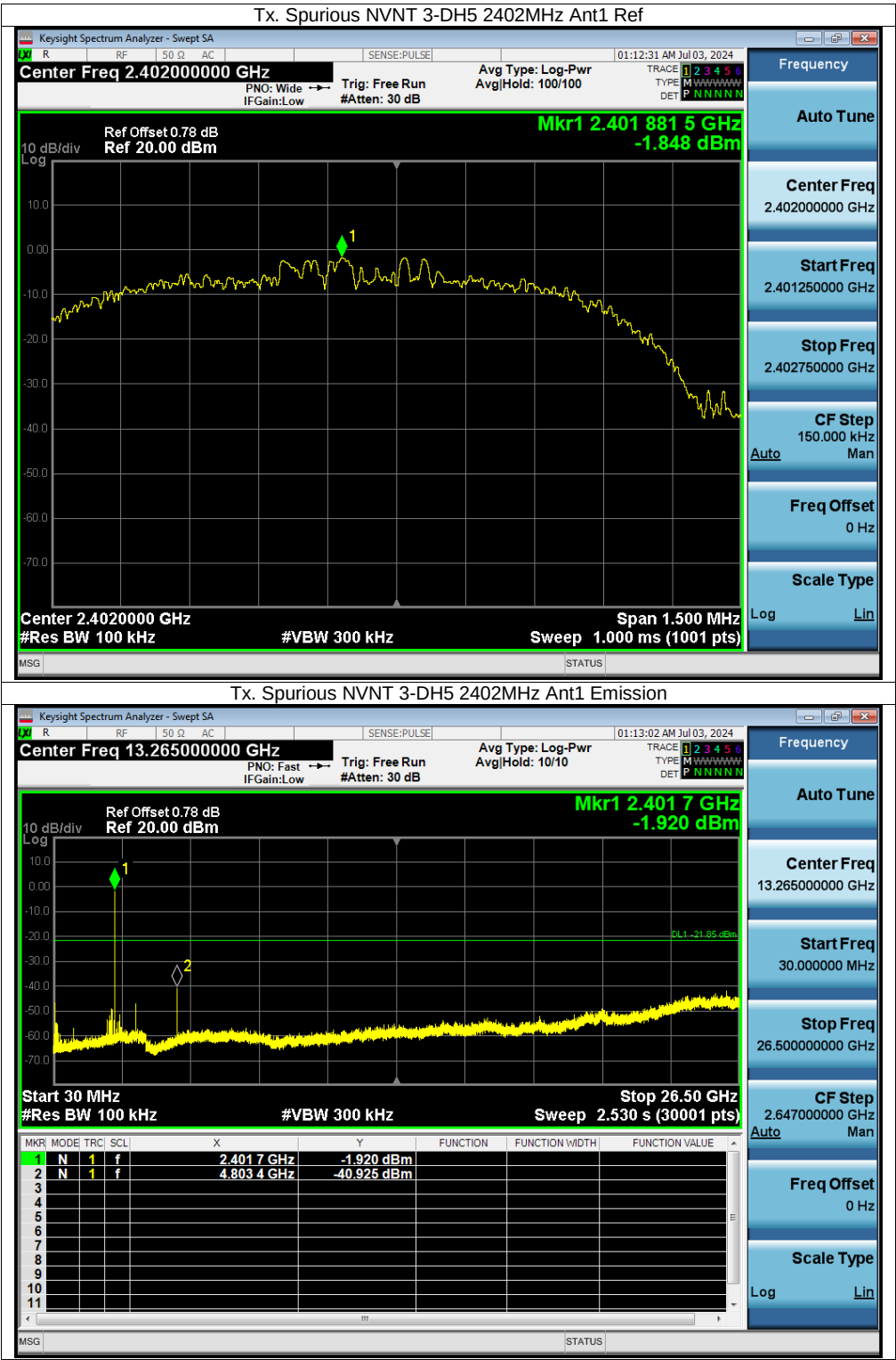


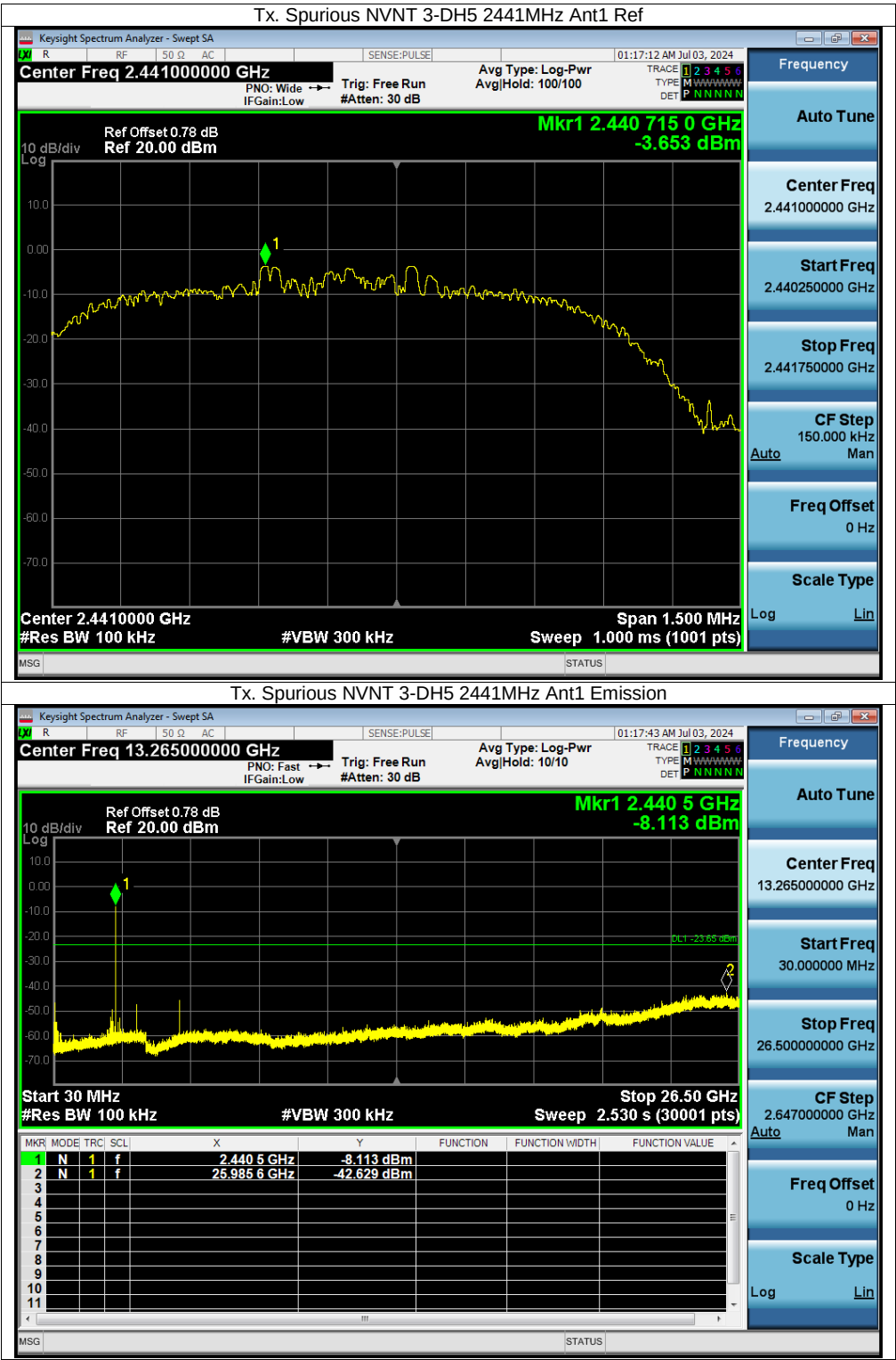












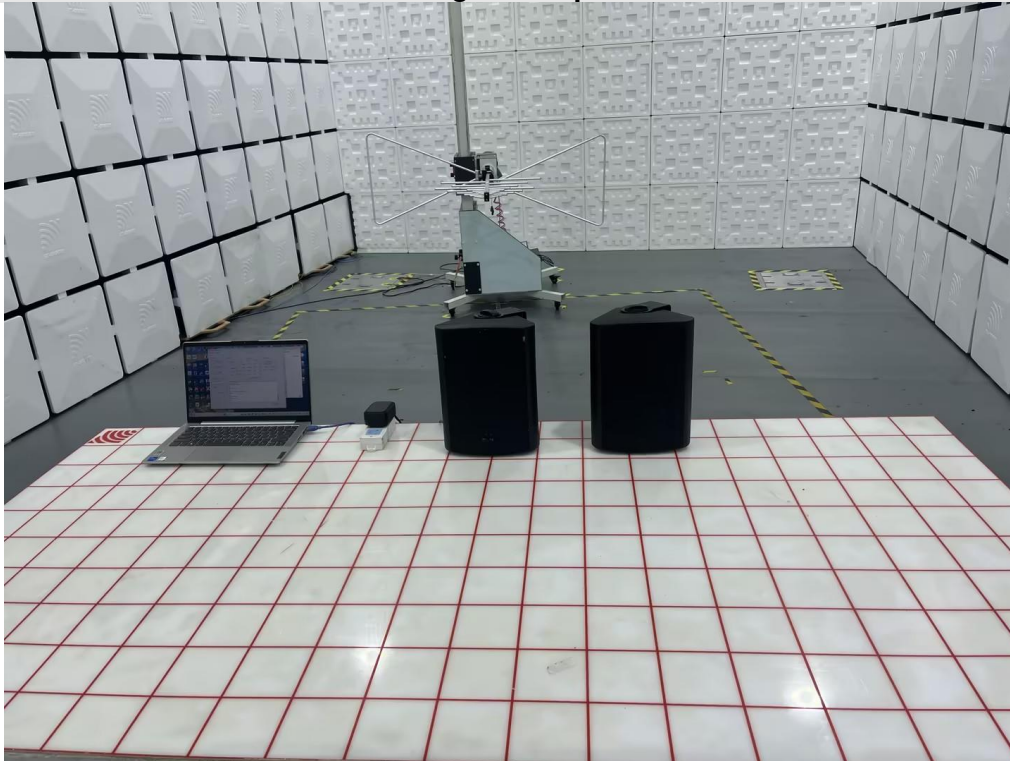


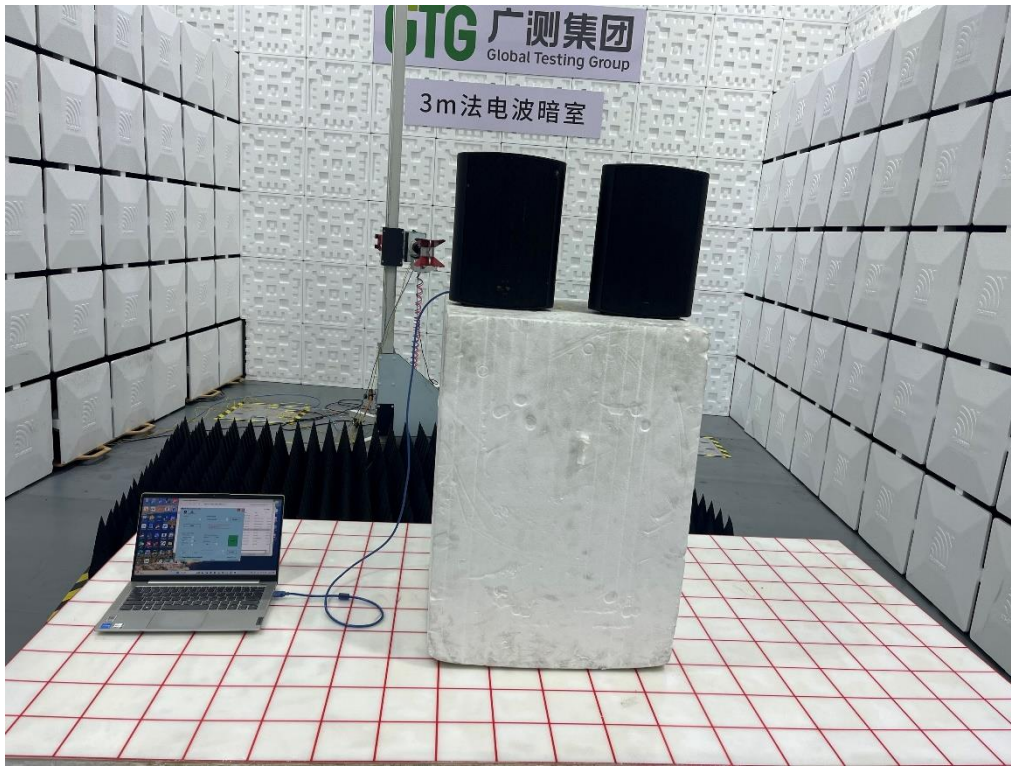
APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION

AC Power Line Conducted Emission



Radiated Band edge and Spurious Emission





END OF REPORT