



Occupied Channel Bandwidth

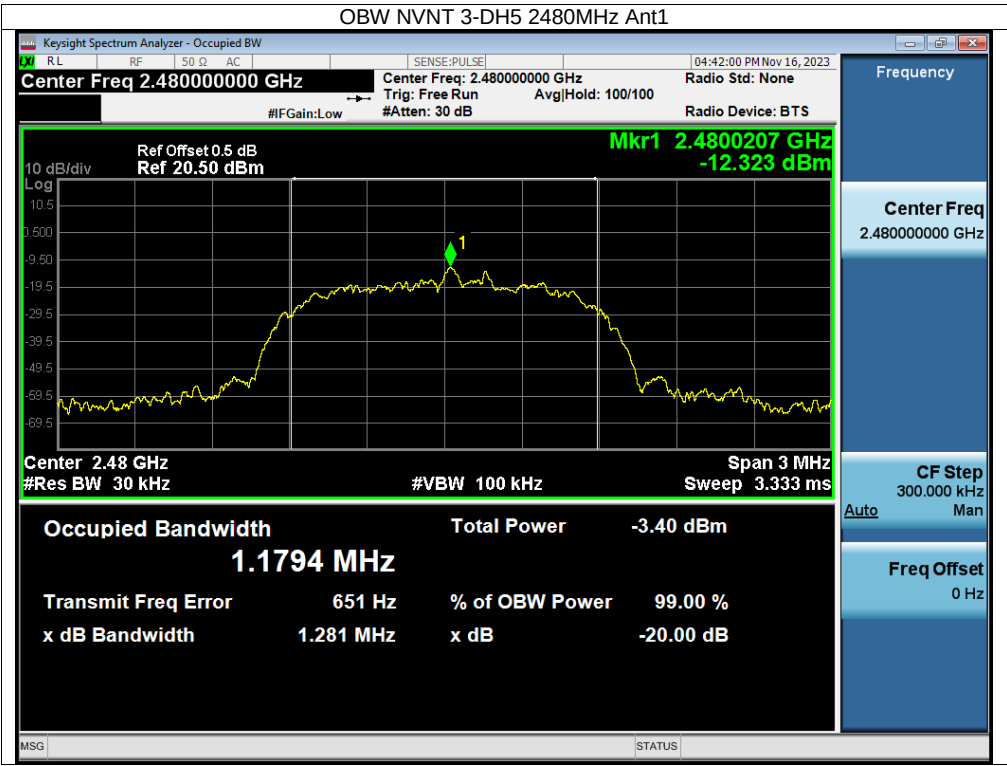
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.829
NVNT	1-DH5	2441	Ant1	0.836
NVNT	1-DH5	2480	Ant1	0.841
NVNT	2-DH5	2402	Ant1	1.19
NVNT	2-DH5	2441	Ant1	1.178
NVNT	2-DH5	2480	Ant1	1.192
NVNT	3-DH5	2402	Ant1	1.197
NVNT	3-DH5	2441	Ant1	1.198
NVNT	3-DH5	2480	Ant1	1.179





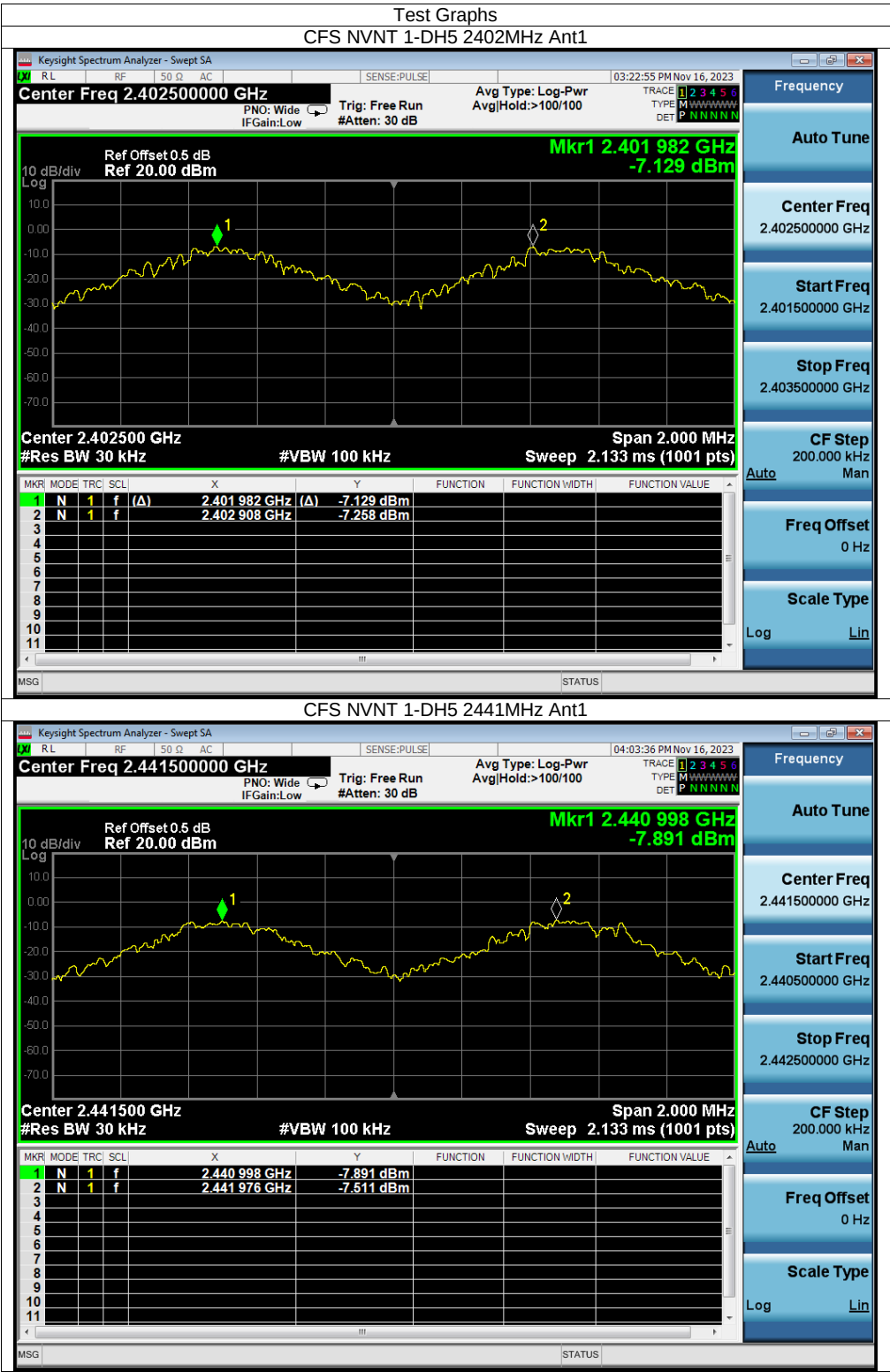






Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.982	2402.908	0.926	0.629	Pass
NVNT	1-DH5	Ant1	2440.998	2441.976	0.978	0.628	Pass
NVNT	1-DH5	Ant1	2479.016	2479.99	0.974	0.627	Pass
NVNT	2-DH5	Ant1	2402.01	2403.022	1.012	0.851	Pass
NVNT	2-DH5	Ant1	2441.03	2442.02	0.99	0.889	Pass
NVNT	2-DH5	Ant1	2479.01	2480.002	0.992	0.852	Pass
NVNT	3-DH5	Ant1	2402.01	2403.152	1.142	0.857	Pass
NVNT	3-DH5	Ant1	2440.92	2442.132	1.212	0.863	Pass
NVNT	3-DH5	Ant1	2479.13	2480.136	1.006	0.865	Pass



CFS NVNT 1-DH5 2441MHz Ant1

Keysight Spectrum Analyzer - Swept SA

RLRF50QACSENSE:PULSE

04:03:36 PM Nov 16, 2023

Center Freq 2.441500000 GHz

PNO: WideIFGain:Low

Trig: Free Run#Atten: 30 dB

Avg Type: Log-PwrAvg|Hold:>100/100

TRACE 1 2 3 4 5 6

TYPE M W W W W W W W W

DET P N N N N N N

Ref Offset 0.5 dBRef 20.00 dBm

Mkr1 2.440 998 GHz-7.891 dBm

10 dB/divLog

Center 2.441500 GHz#Res BW 30 kHz#VBW 100 kHzSpan 2.000 MHzSweep 2.133 ms (1001 pts)

MR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.440 998 GHz	-7.891 dBm			
2	N	1	f	2.441 976 GHz	-7.511 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSGSTATUS

Frequency

Auto Tune

Center Freq2.441500000 GHz

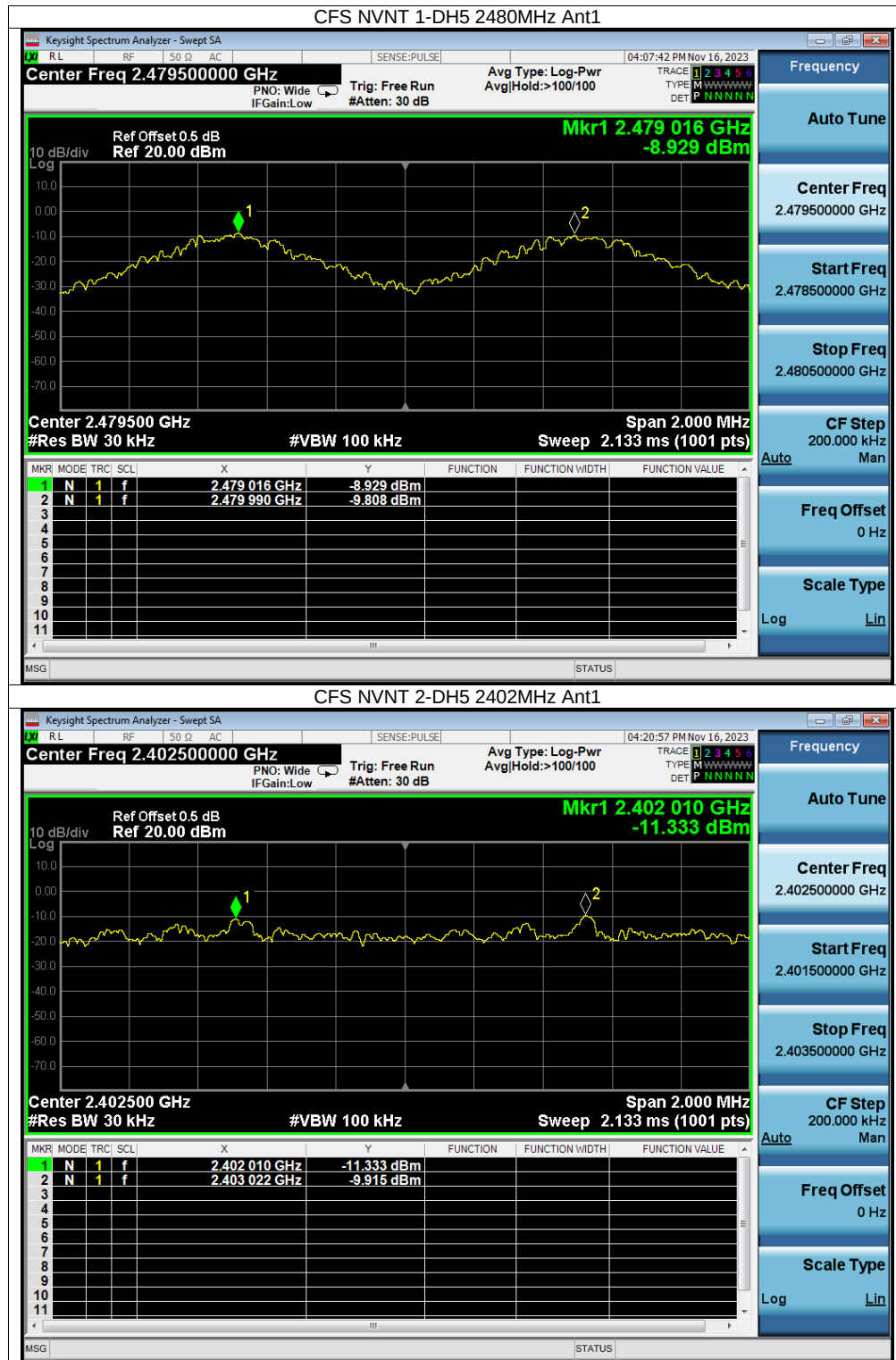
Start Freq2.440500000 GHz

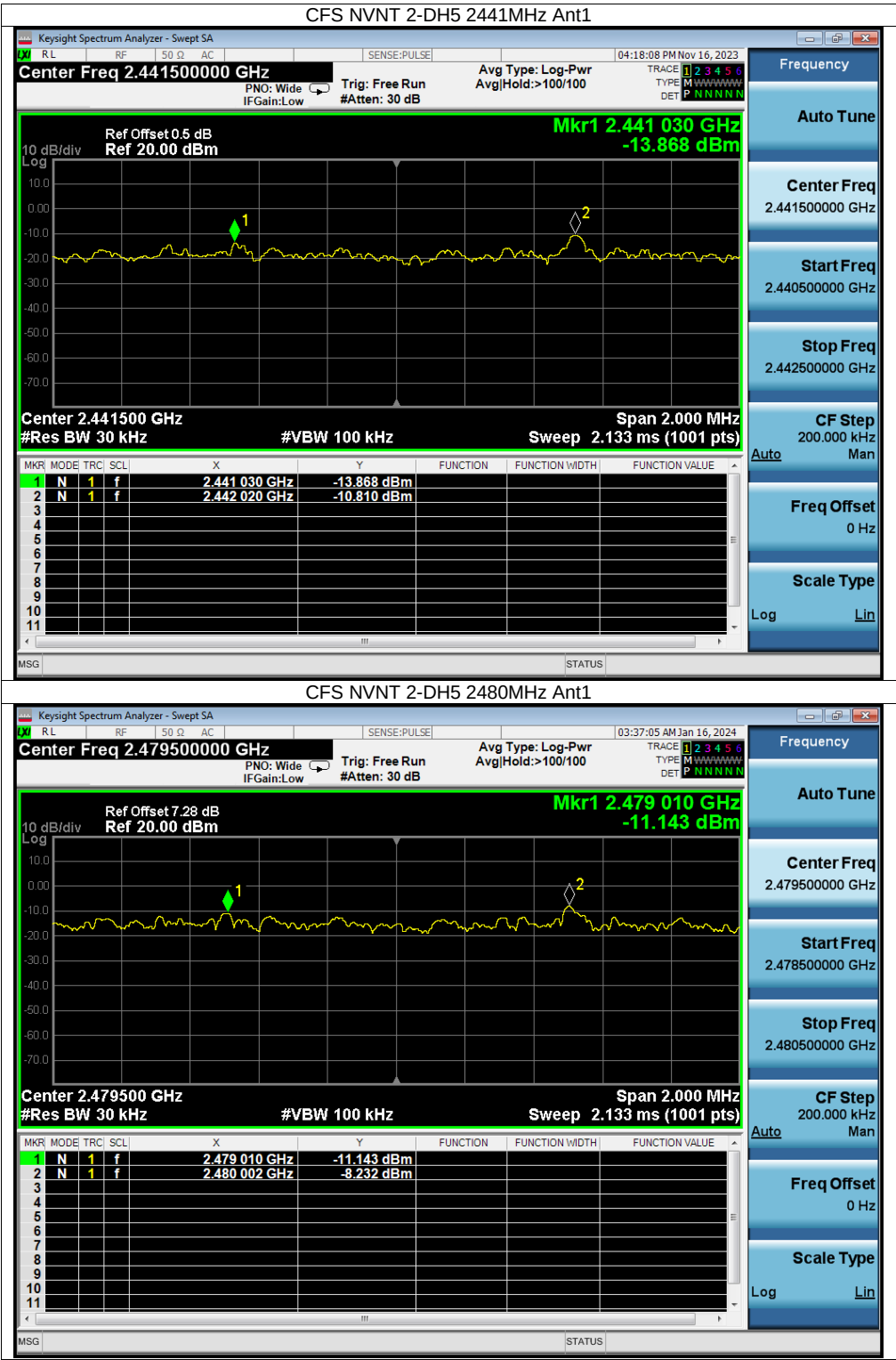
Stop Freq2.442500000 GHz

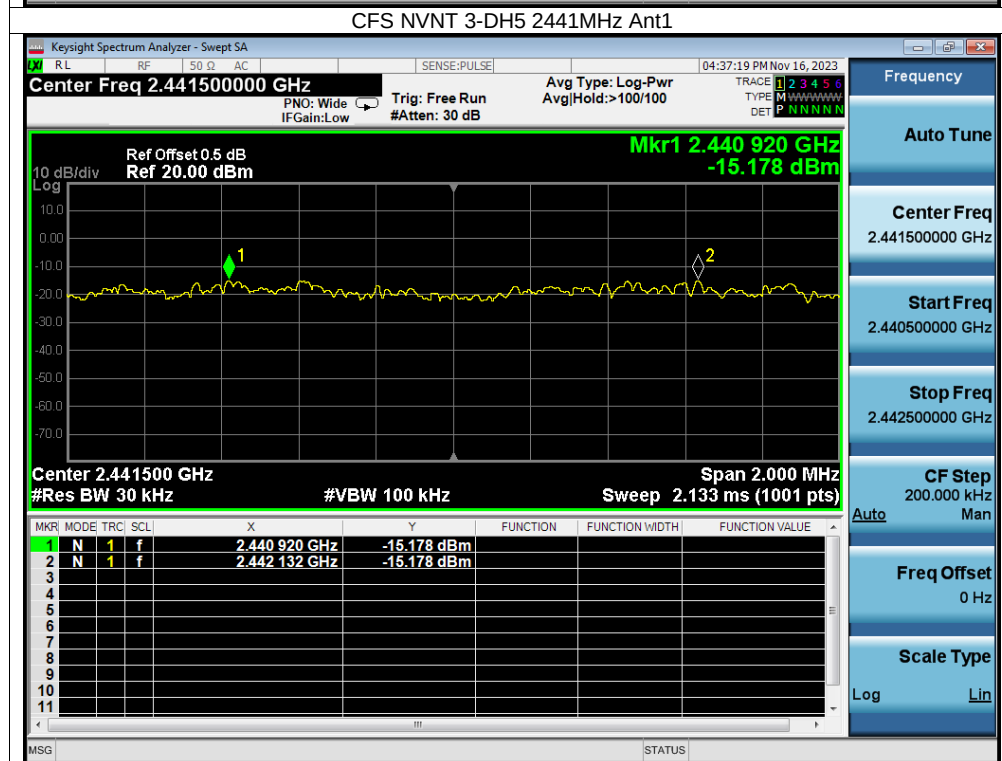
CF Step200.000 kHzMan

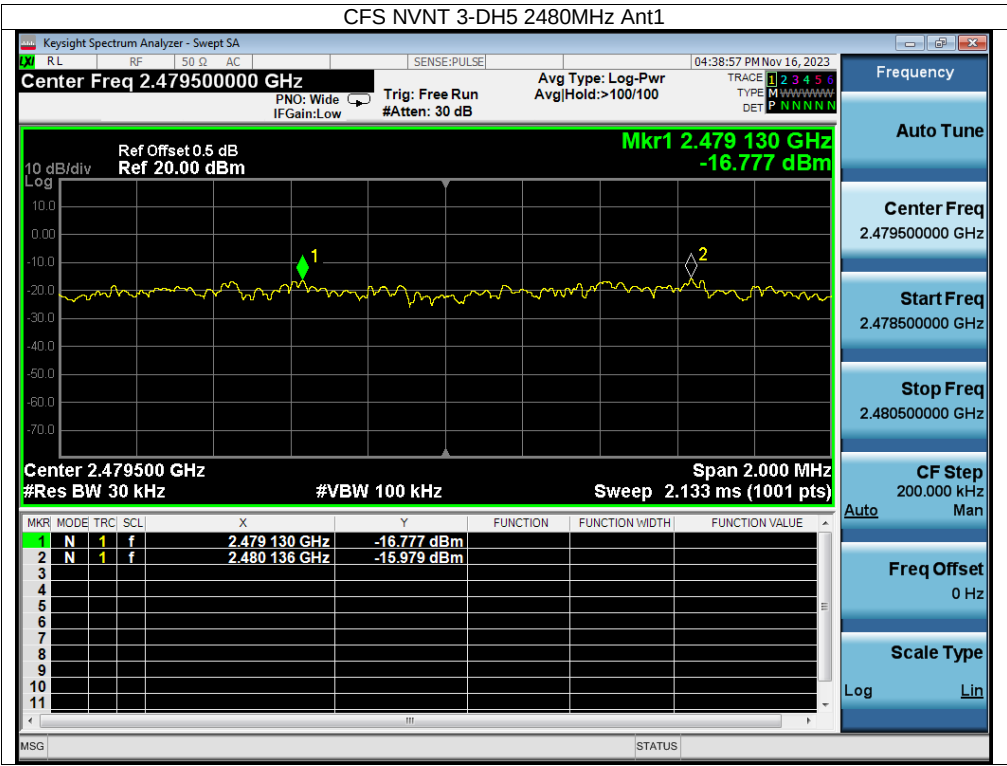
Freq Offset0 Hz

Scale TypeLogLin



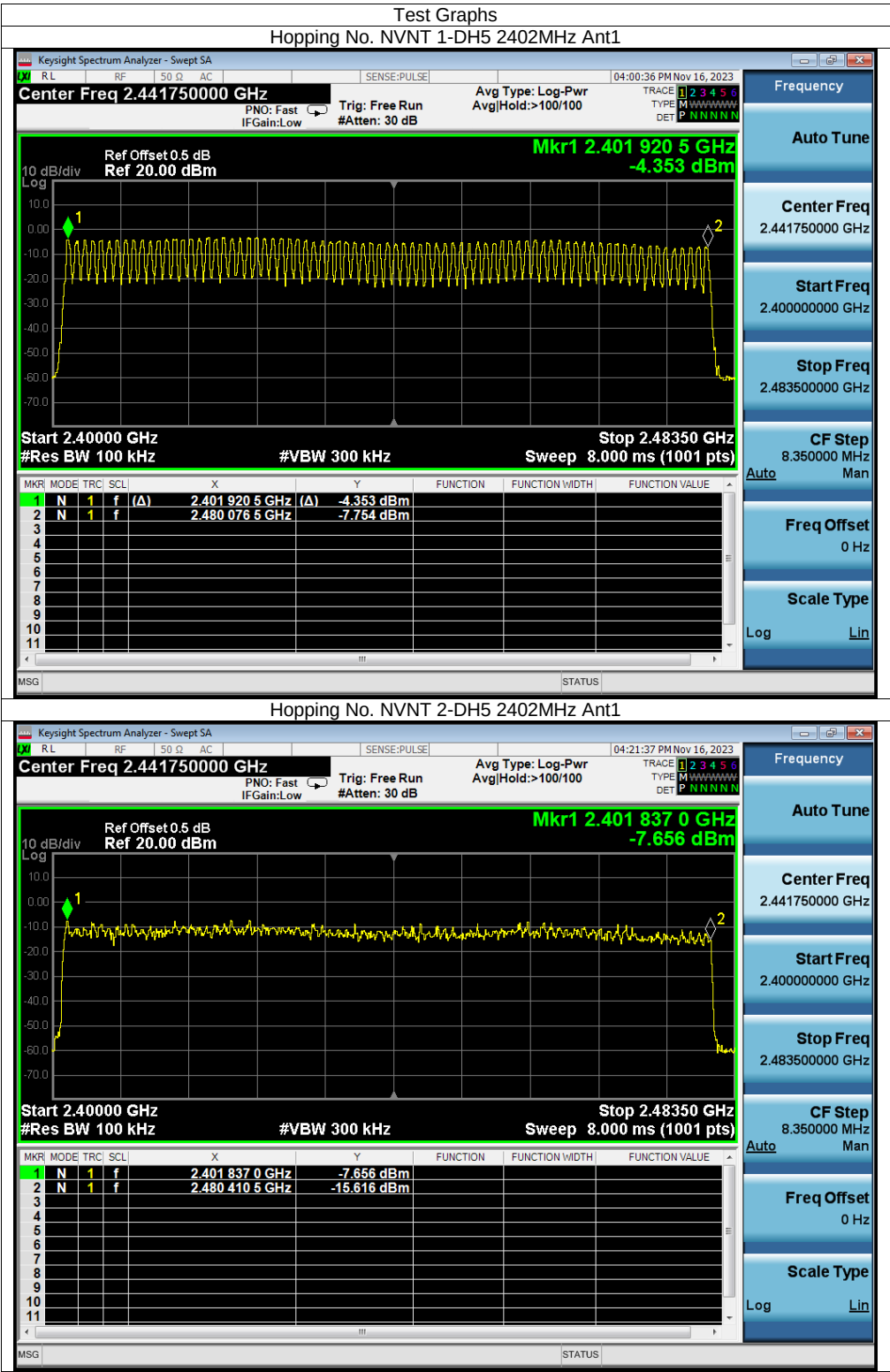


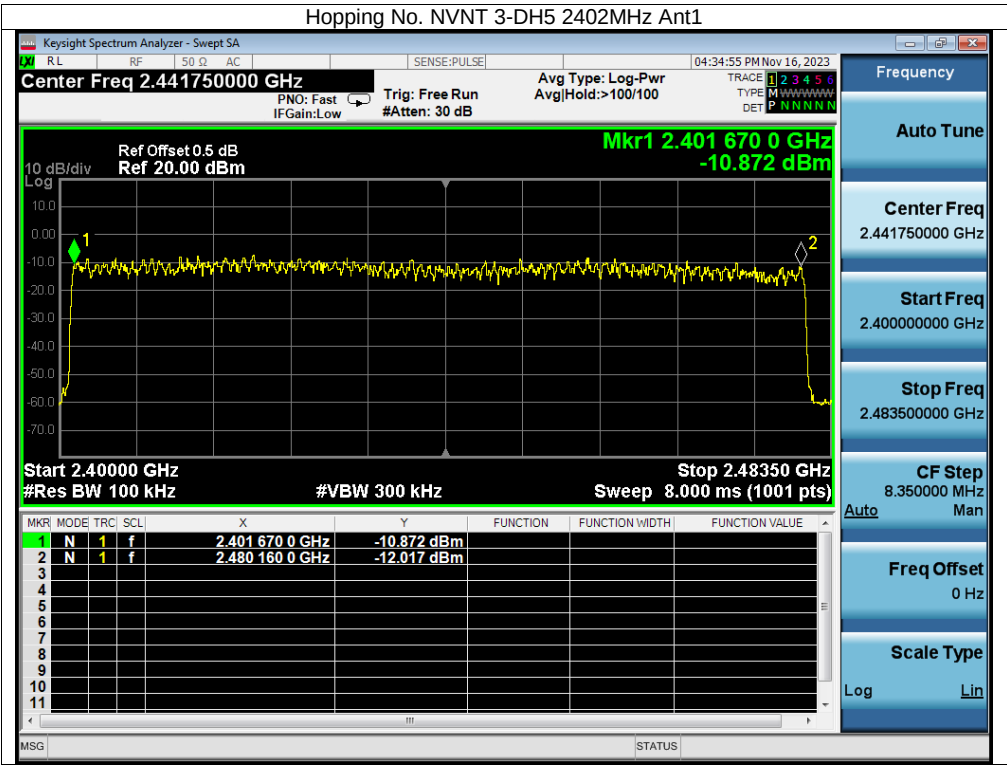




Number of Hopping Channel

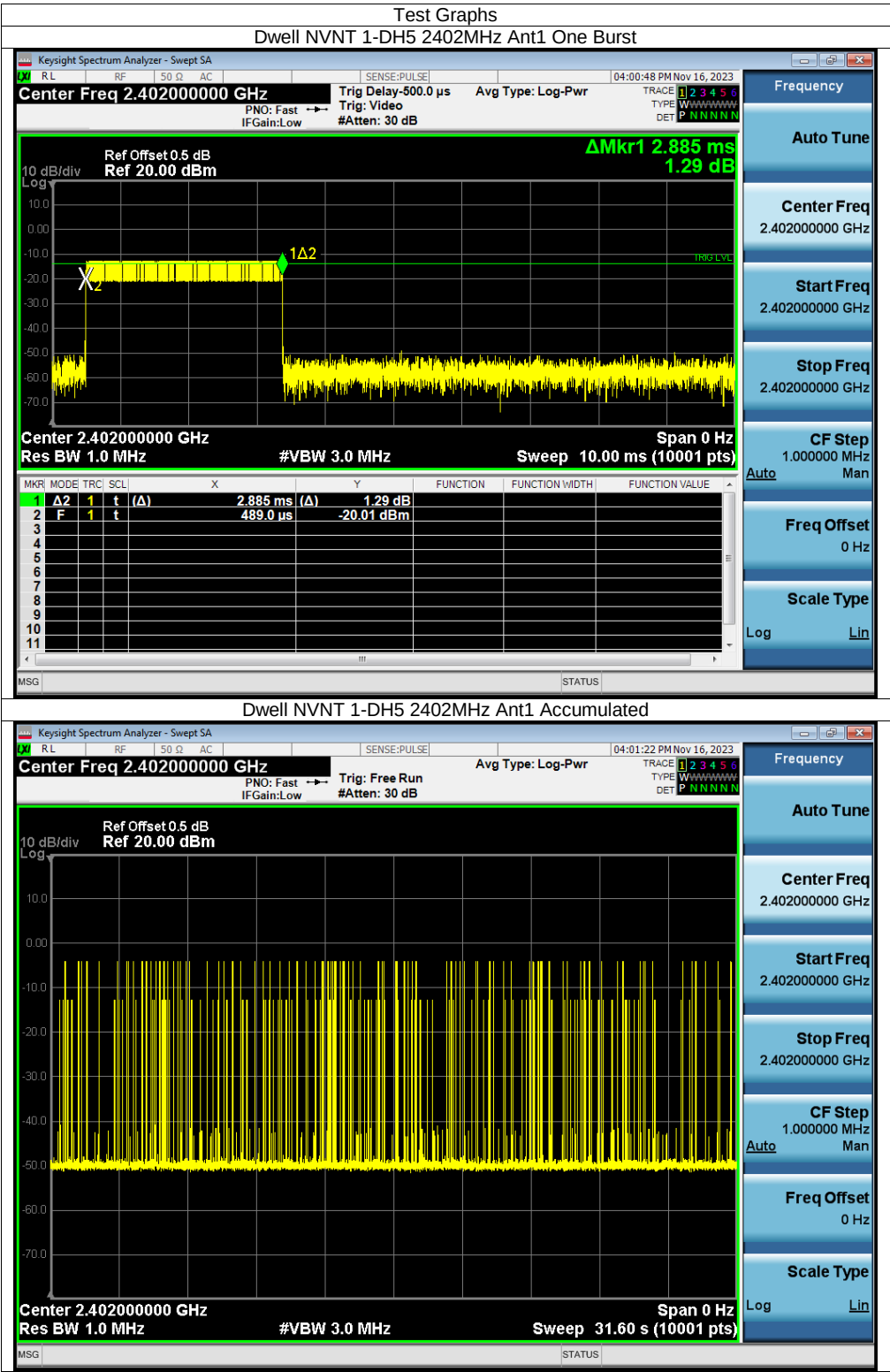
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

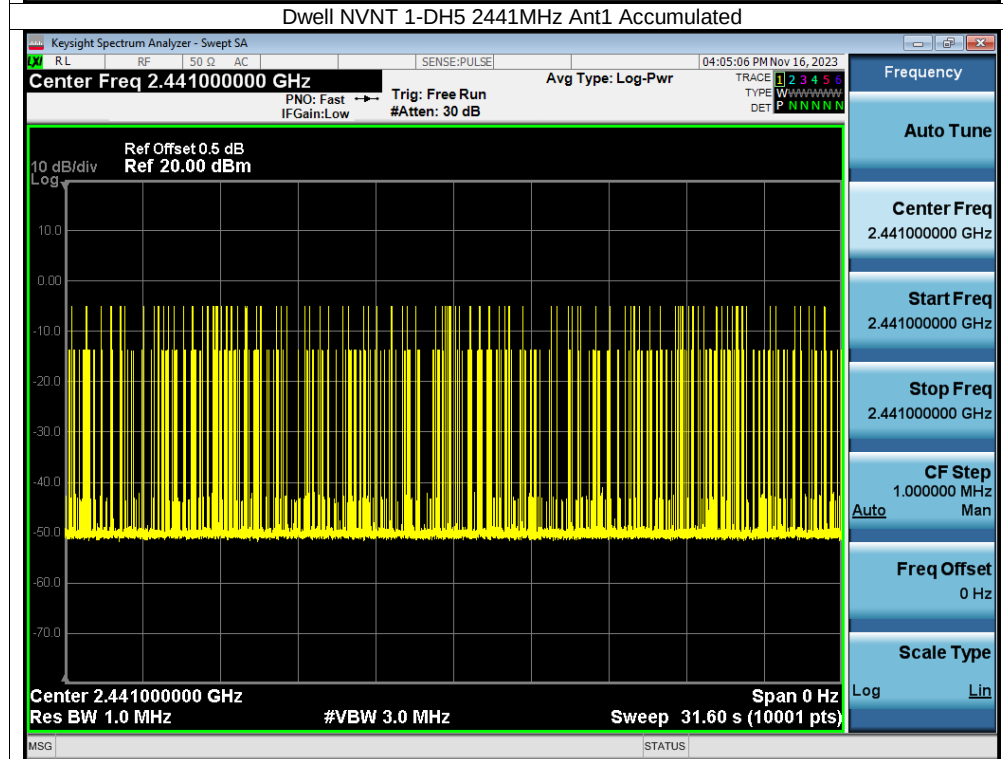
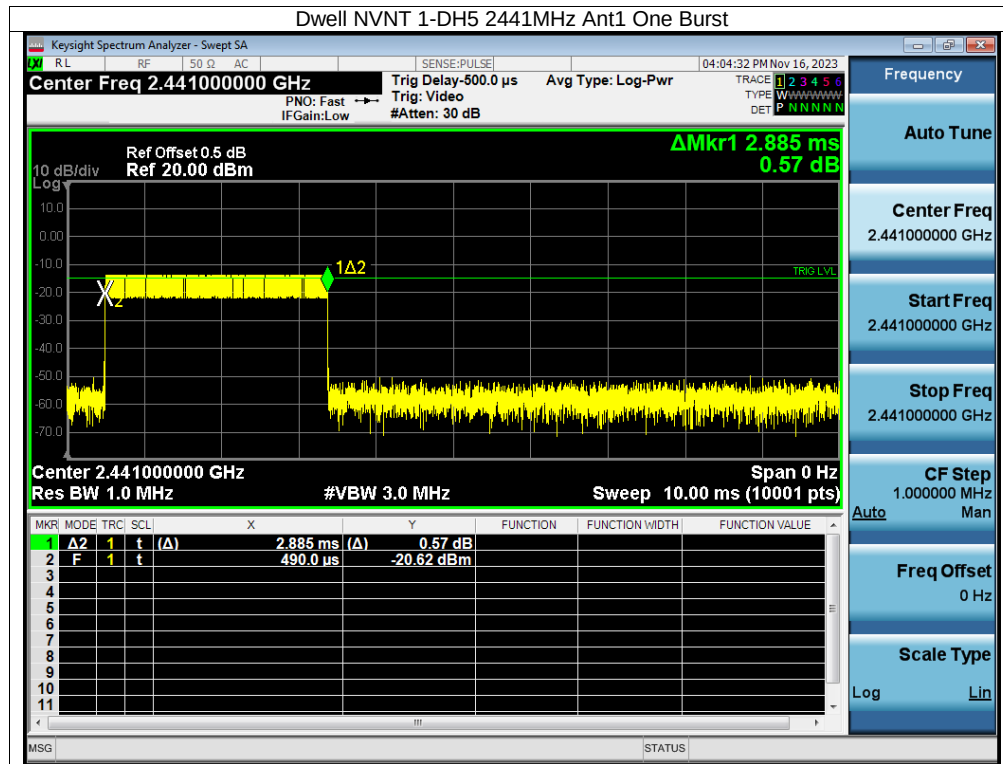


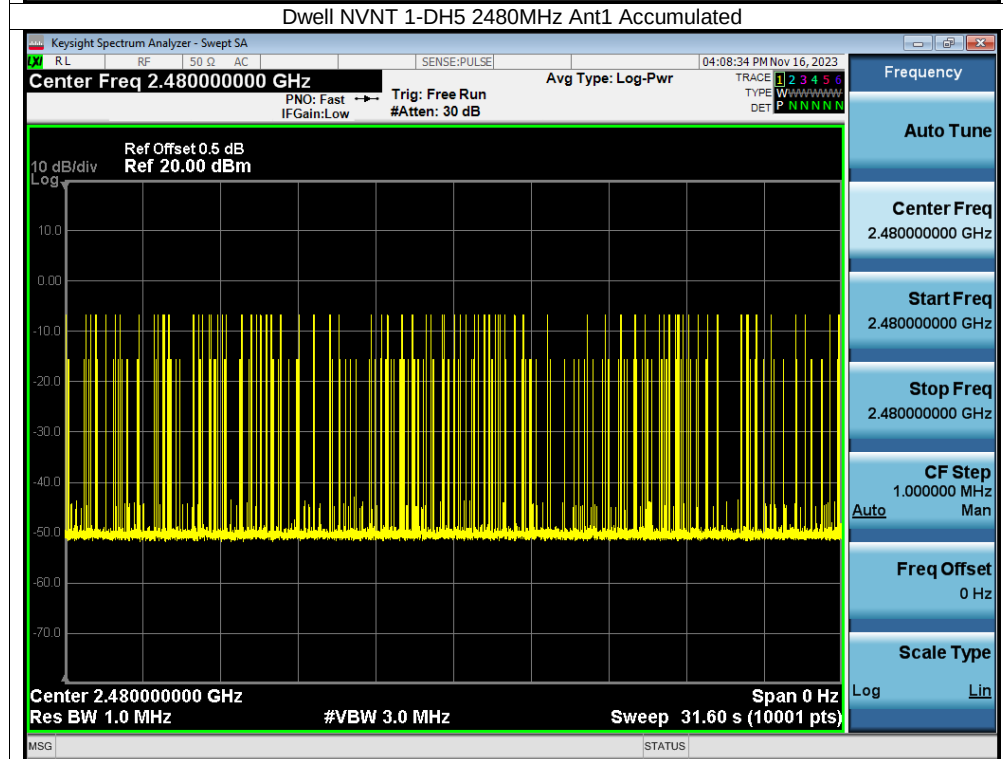
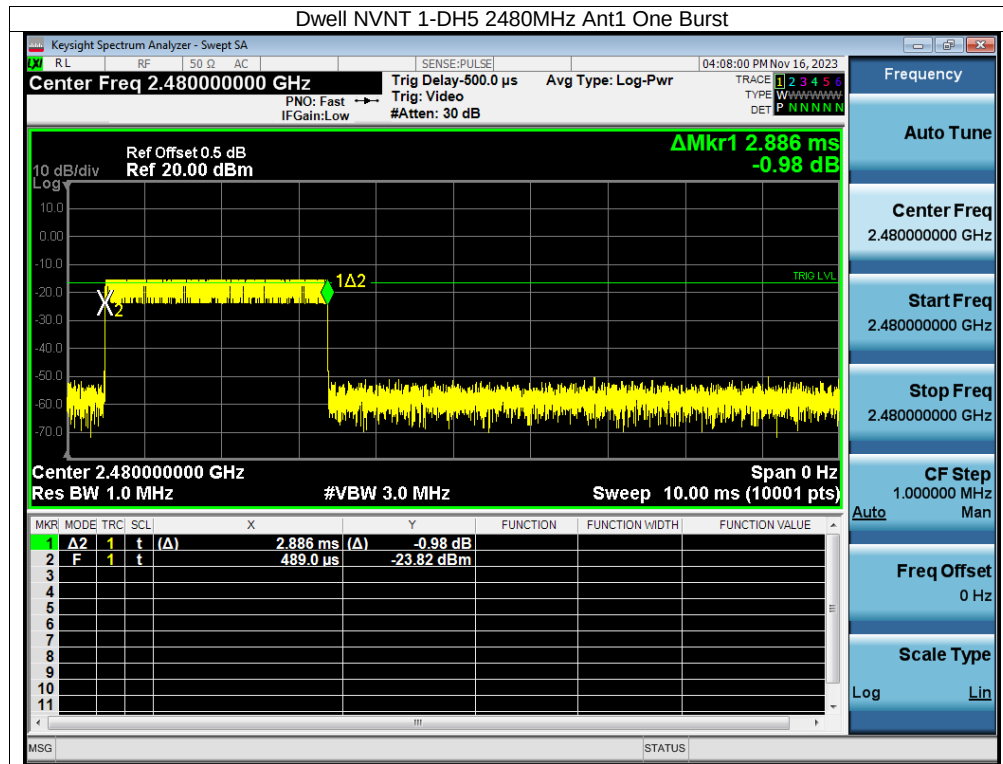


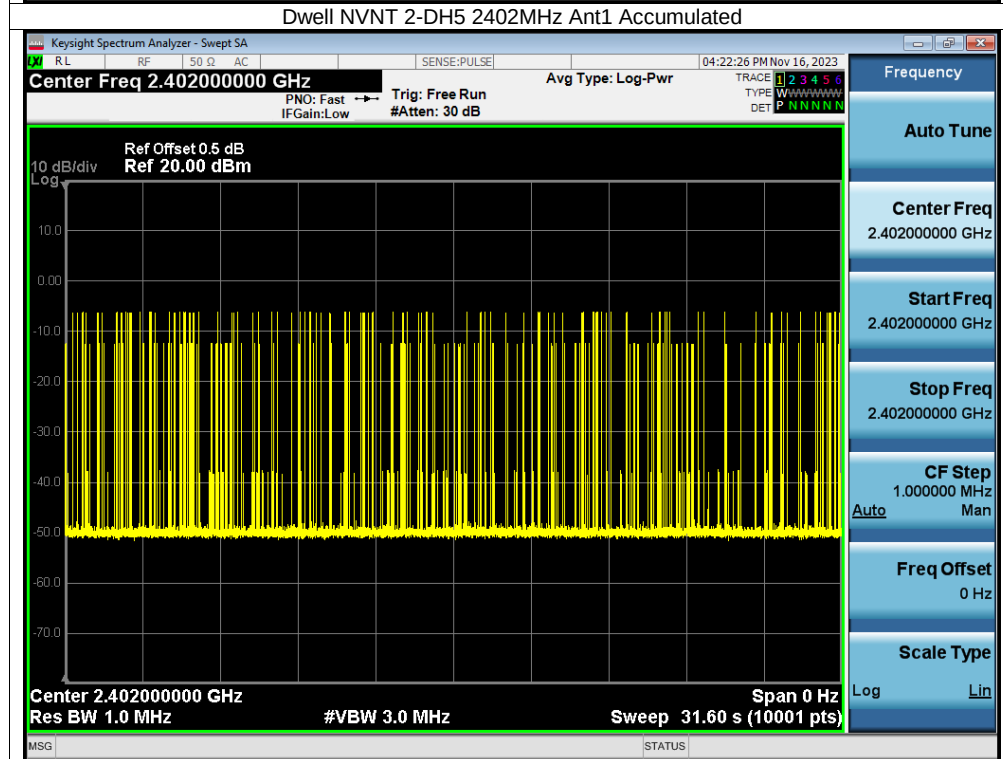
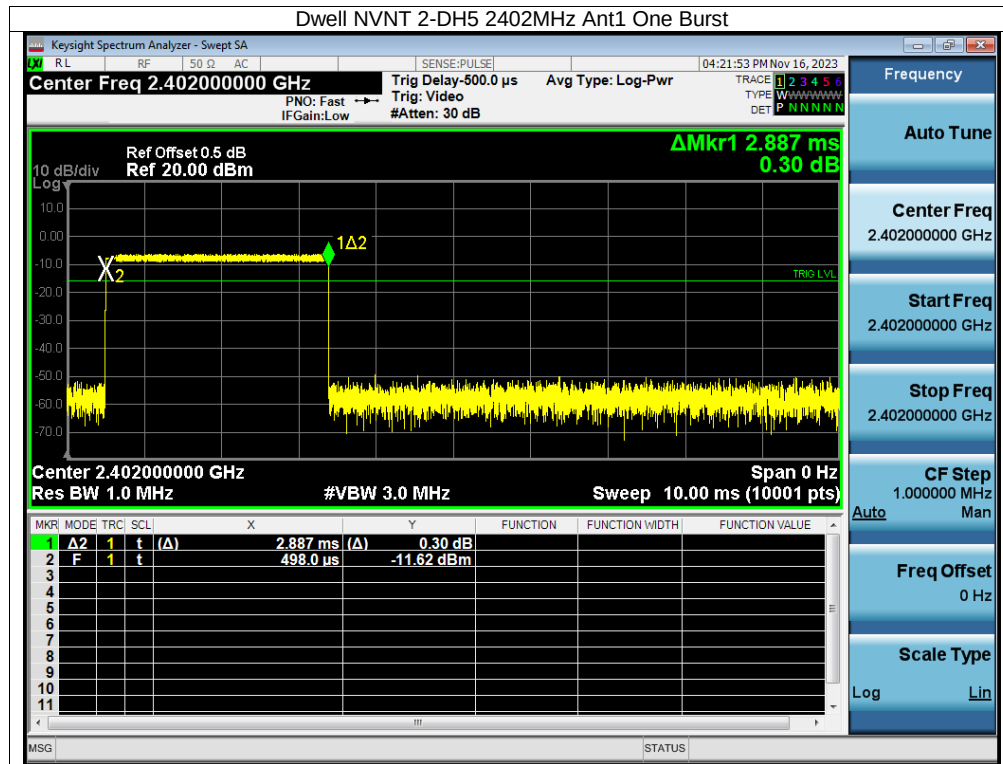
Dwell Time

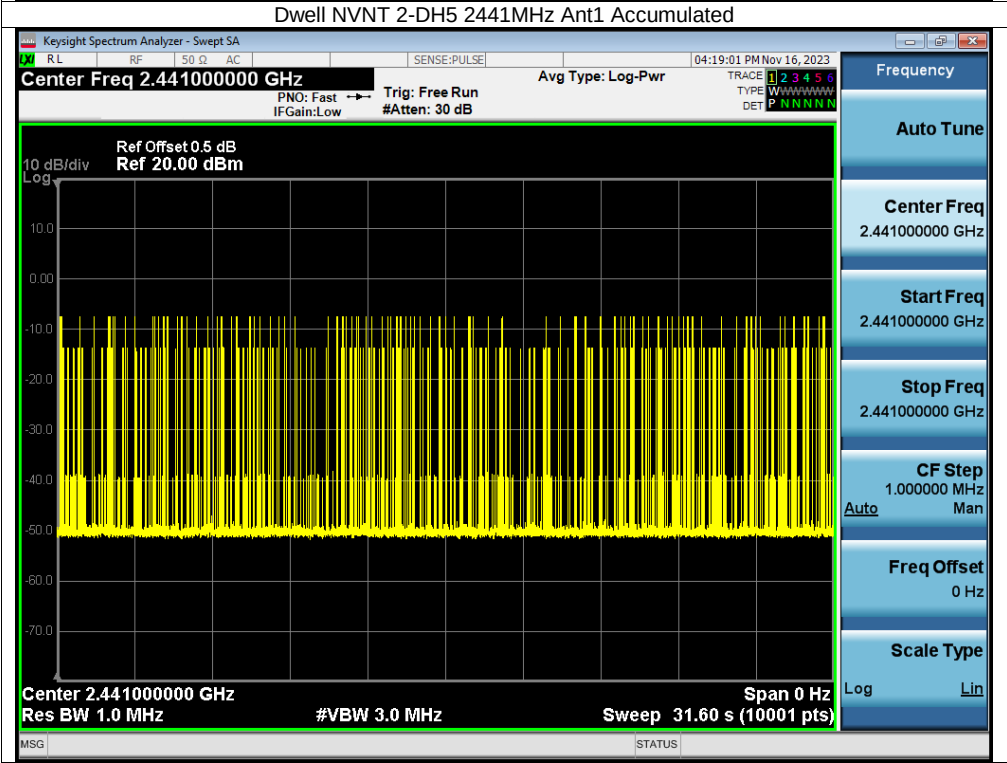
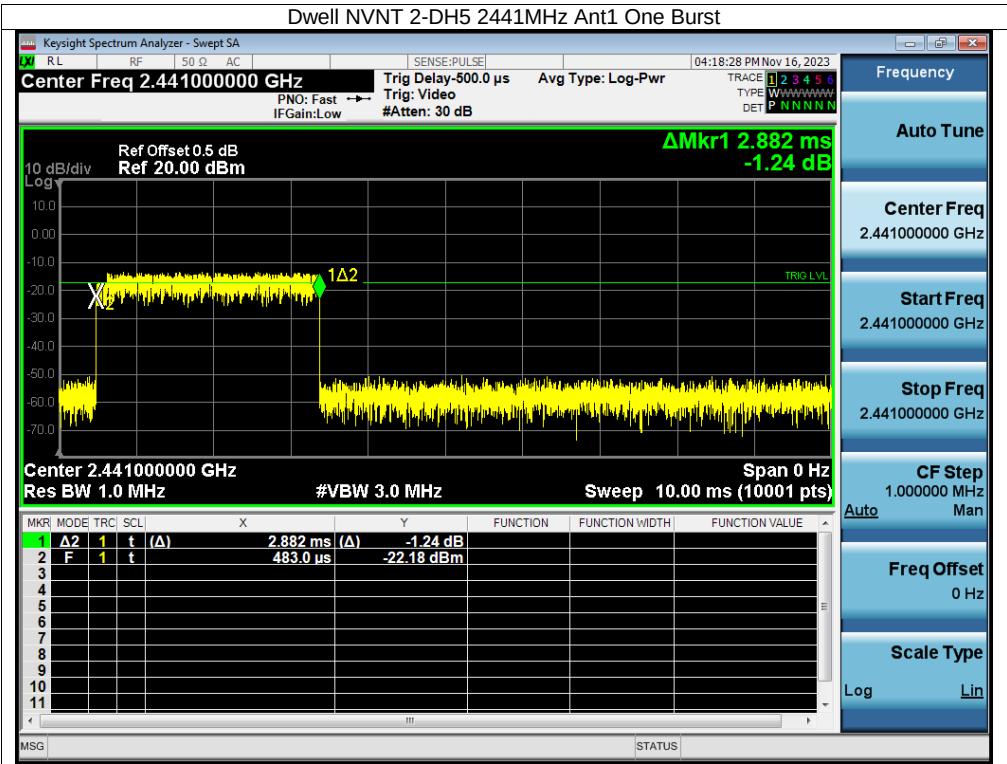
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.885	291.385	101	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.885	311.58	108	31600	400	Pass
NVNT	1-DH5	2480	Ant1	2.886	282.828	98	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.887	294.474	102	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.882	314.138	109	31600	400	Pass
NVNT	2-DH5	2480	Ant1	2.887	346.44	120	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.888	314.792	109	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.887	288.7	100	31600	400	Pass
NVNT	3-DH5	2480	Ant1	2.889	294.678	102	31600	400	Pass

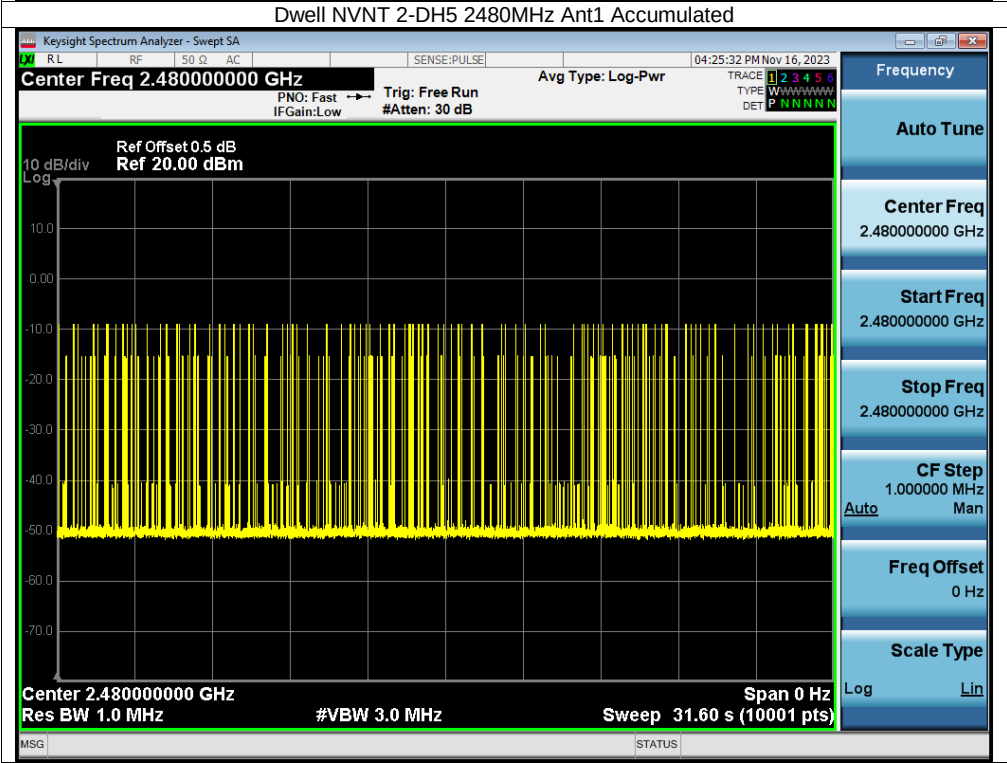
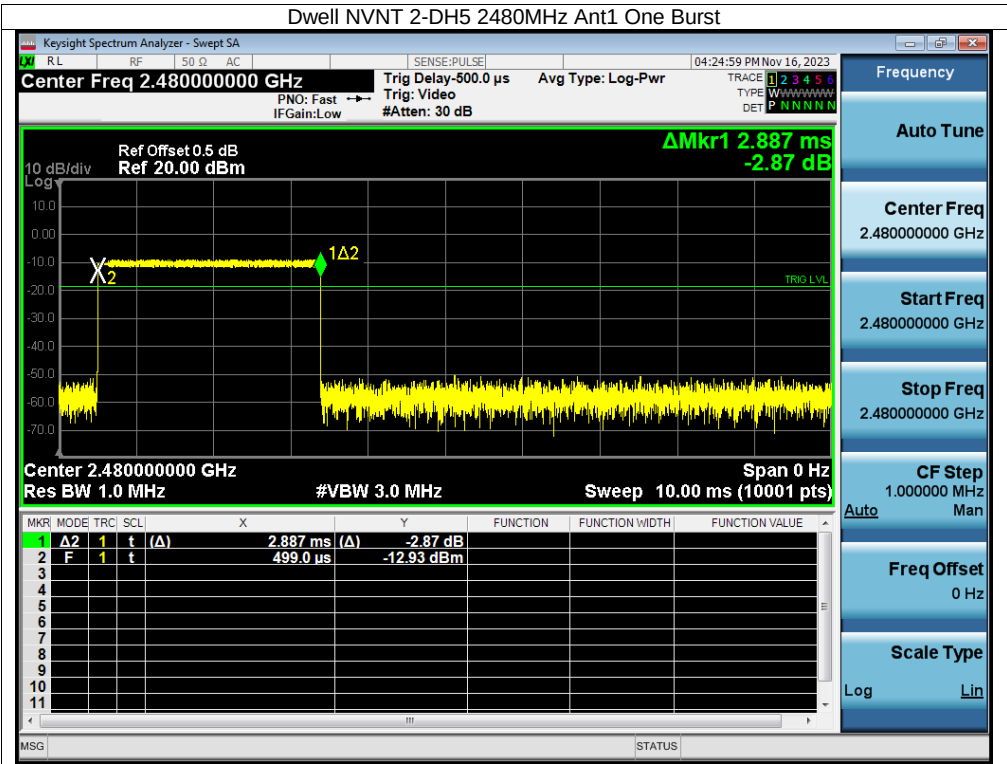


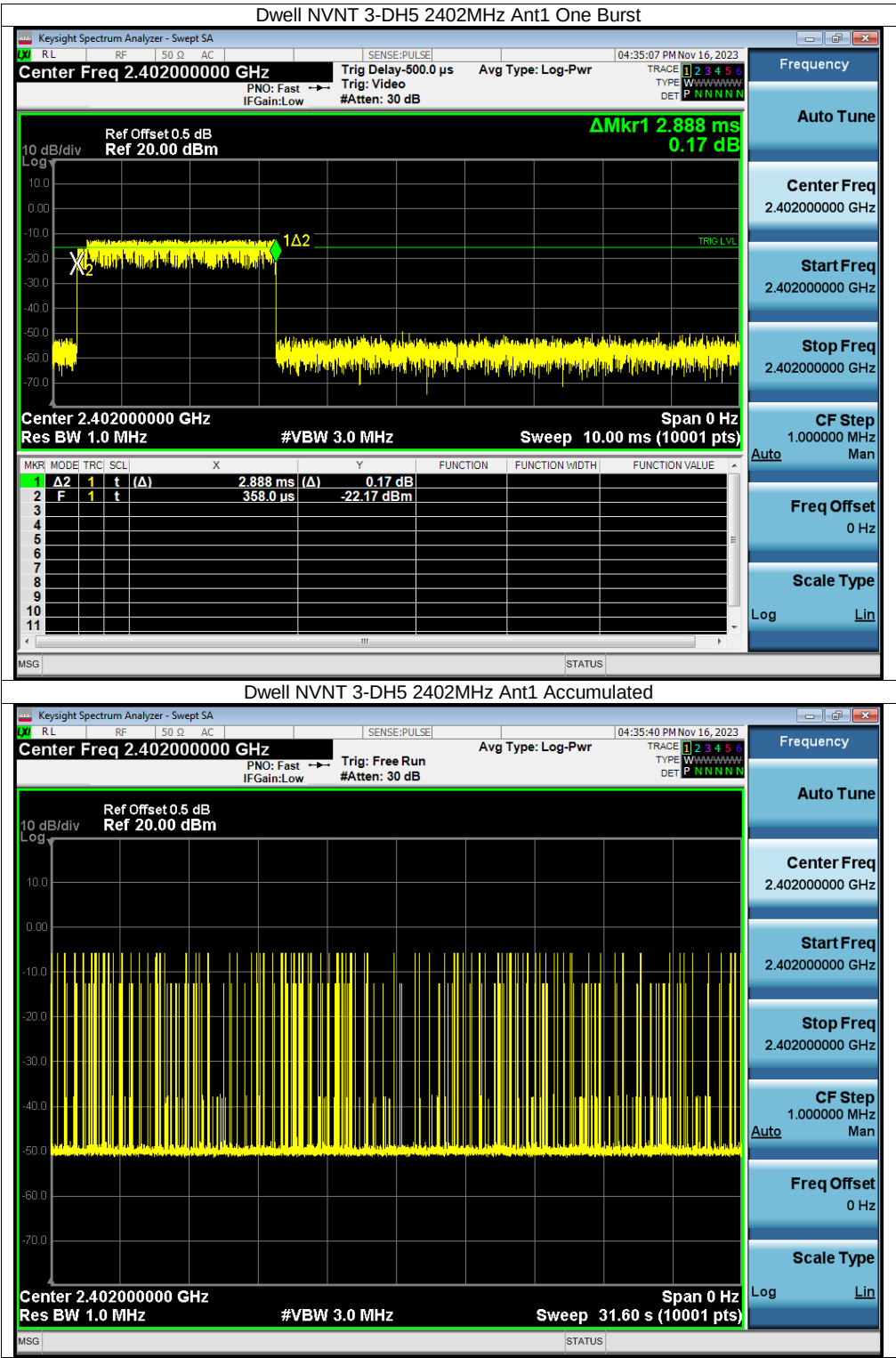












Frequency

Auto Tune

Center Freq 2.402000000 GHz

Start Freq 2.402000000 GHz

Stop Freq 2.402000000 GHz

CF Step 1.000000 MHz

AutoMan

Freq Offset 0 Hz

Scale Type

LogLin

Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated

Keysight Spectrum Analyzer - Swept SA

RLRF50QACSENSE:PULSE

04:35:40 PM Nov 16, 2023

Center Freq 2.402000000 GHz

Trig: Free Run

Avg Type: Log-Pwr

PNO: Fast

Trig: Free Run

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 0.5 dB

Ref 20.00 dBm

Center 2.402000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 31.60 s (10001 pts)

Span 0 Hz

MSGSTATUS

Frequency

Auto Tune

Center Freq 2.402000000 GHz

Start Freq 2.402000000 GHz

Stop Freq 2.402000000 GHz

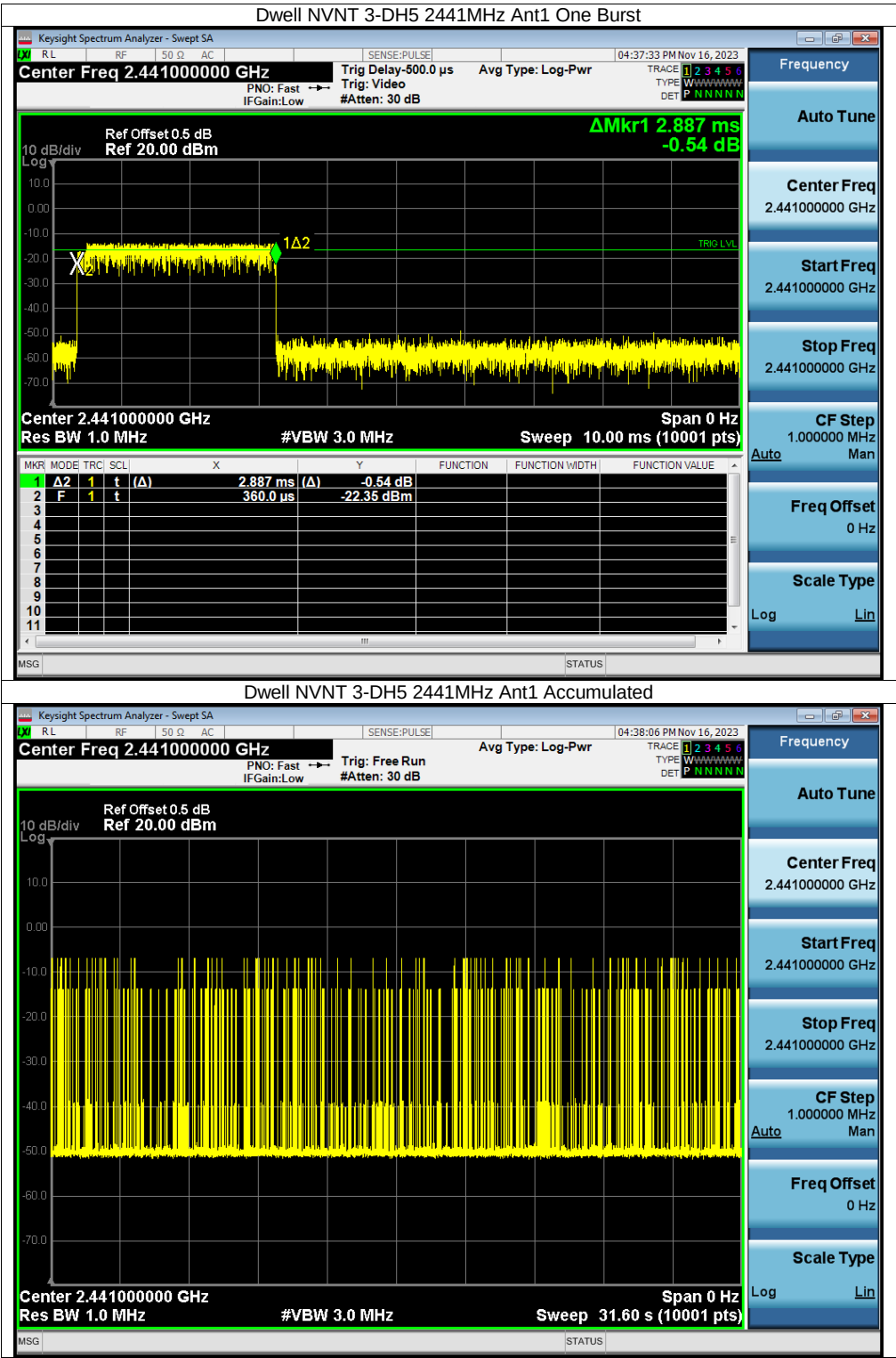
CF Step 1.000000 MHz

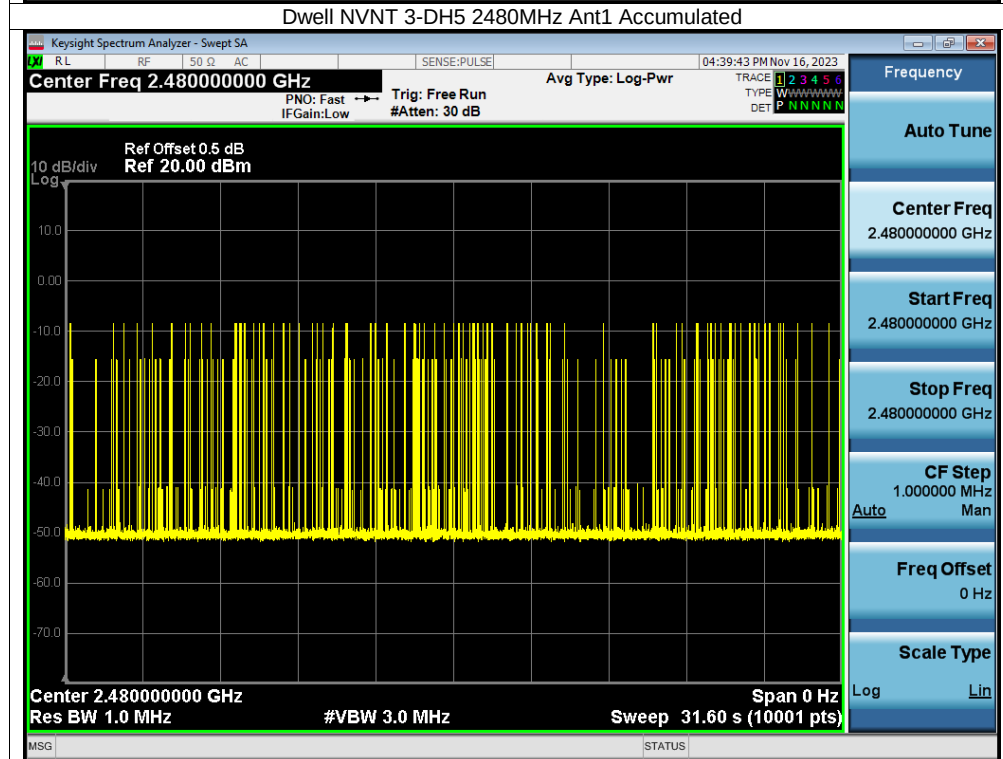
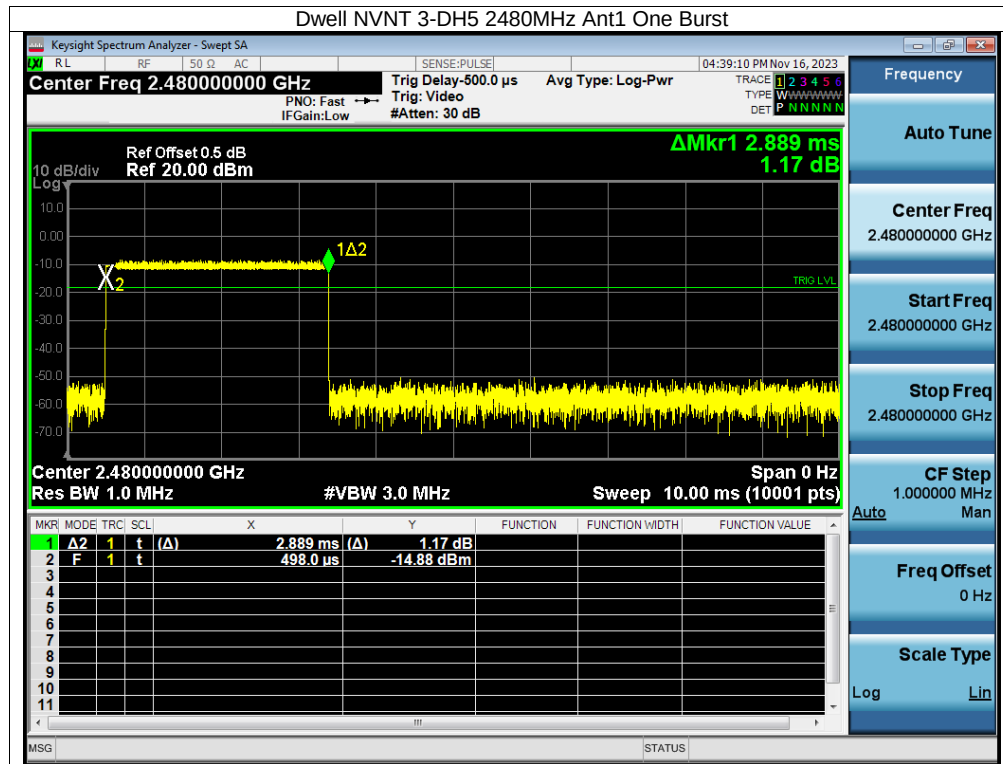
AutoMan

Freq Offset 0 Hz

Scale Type

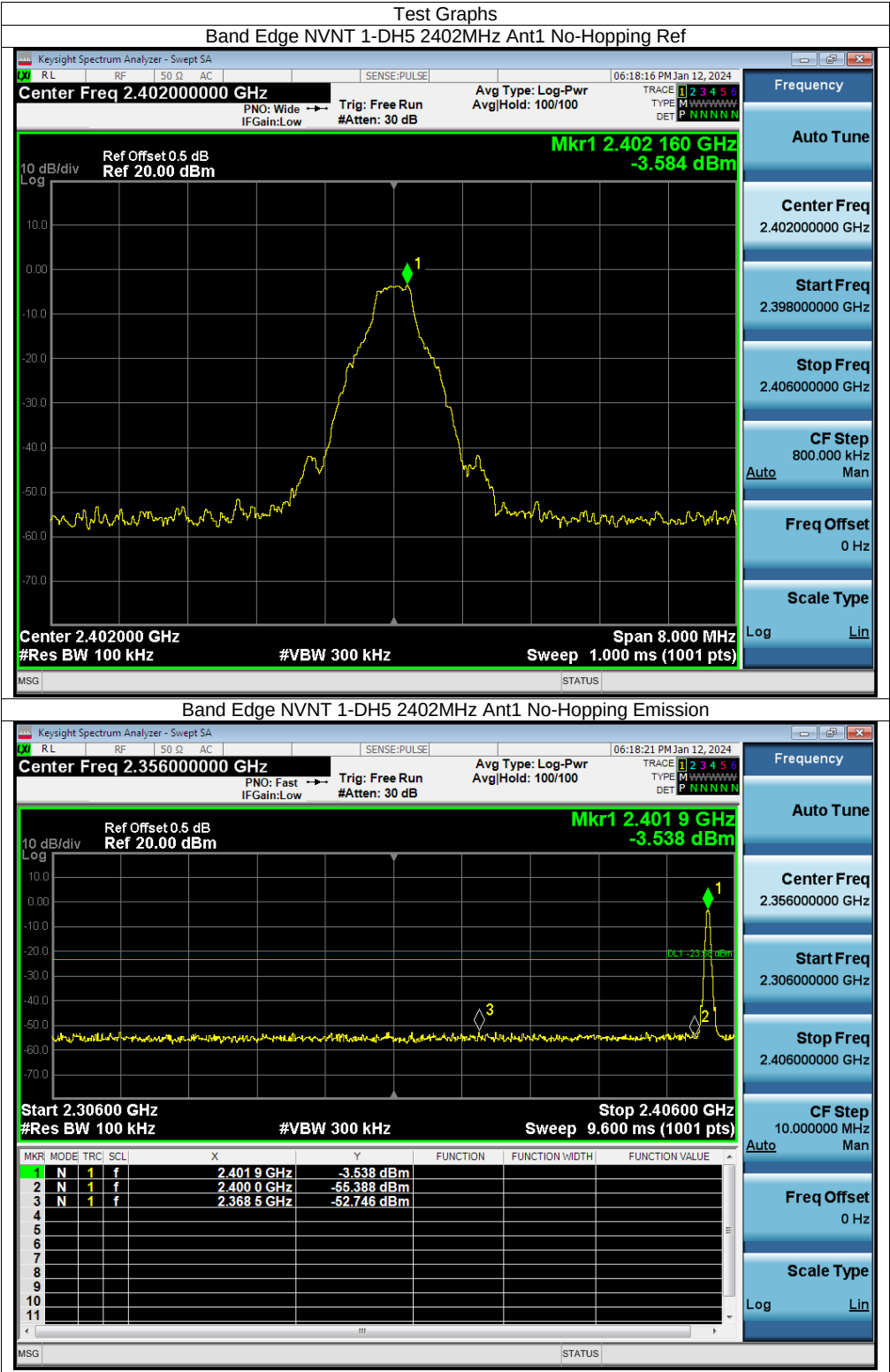
LogLin

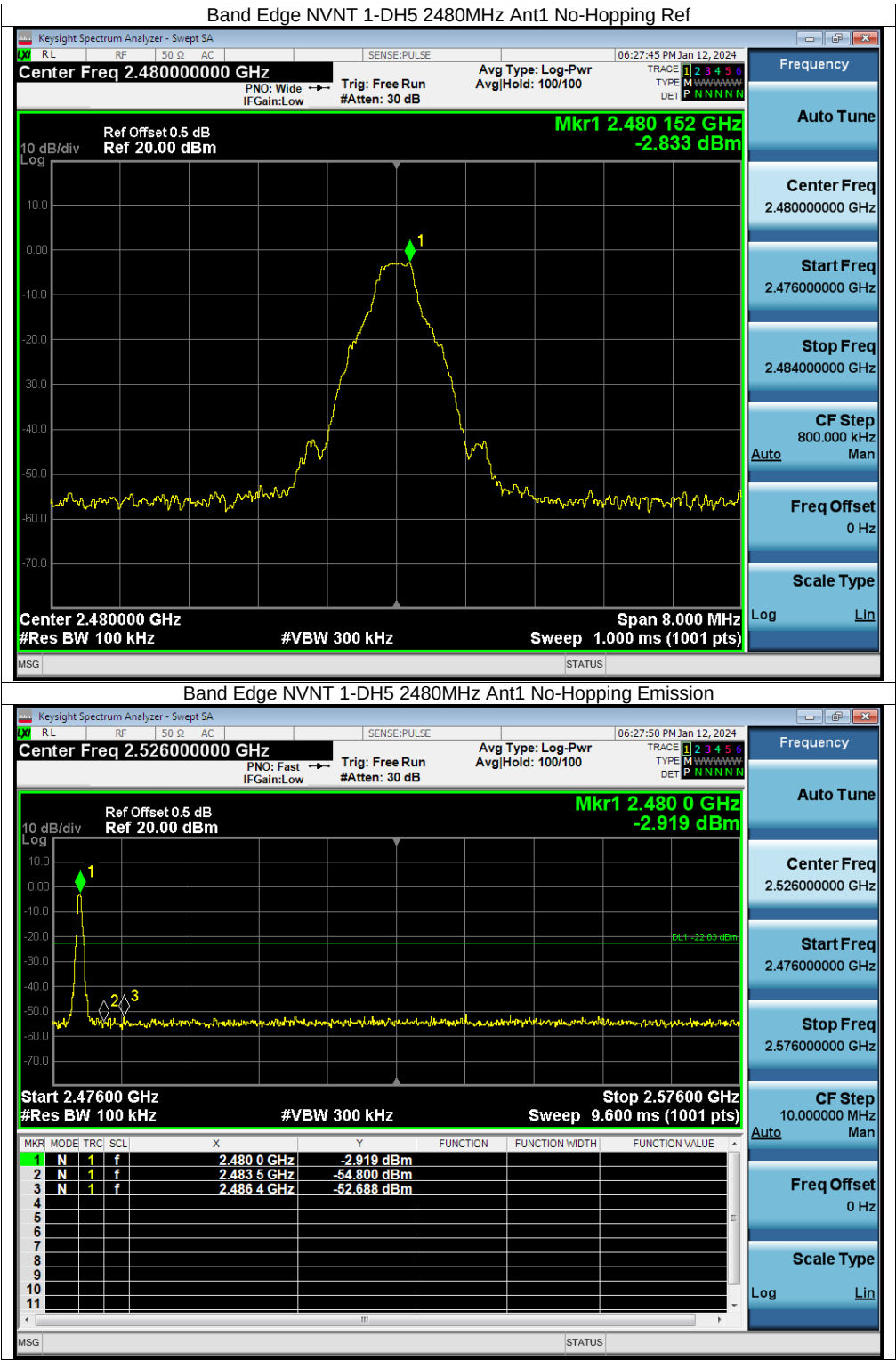


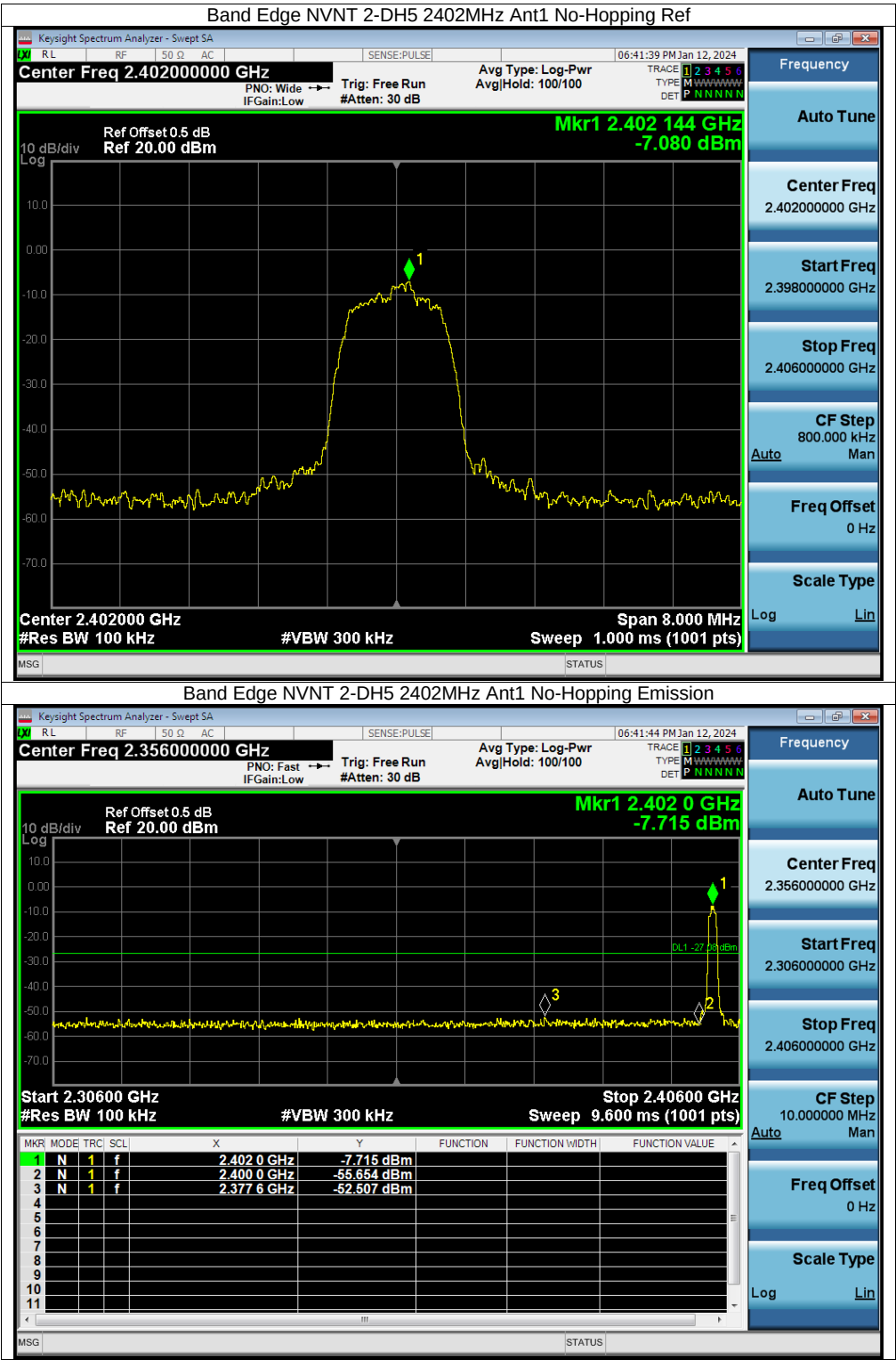


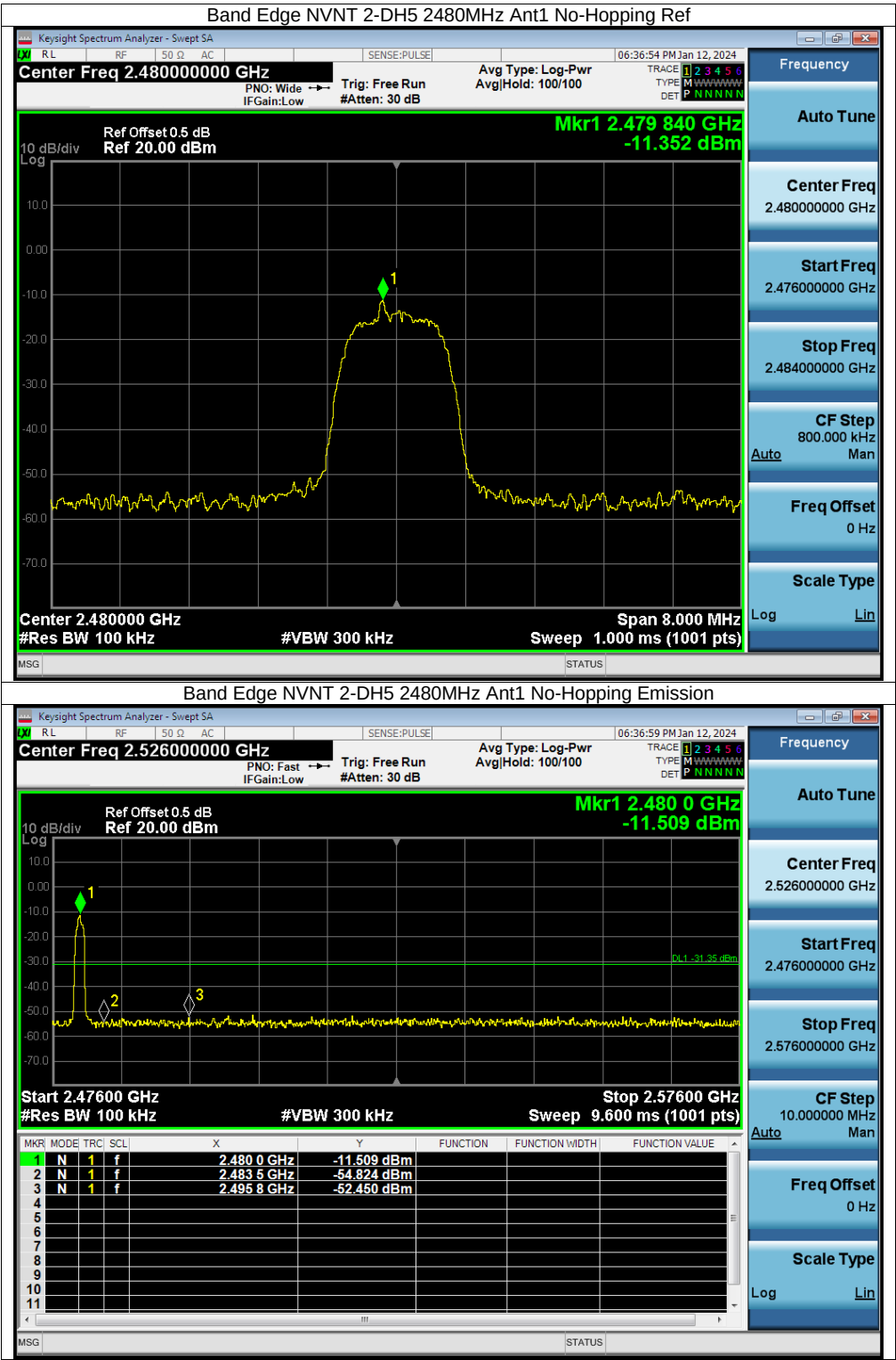
Band Edge

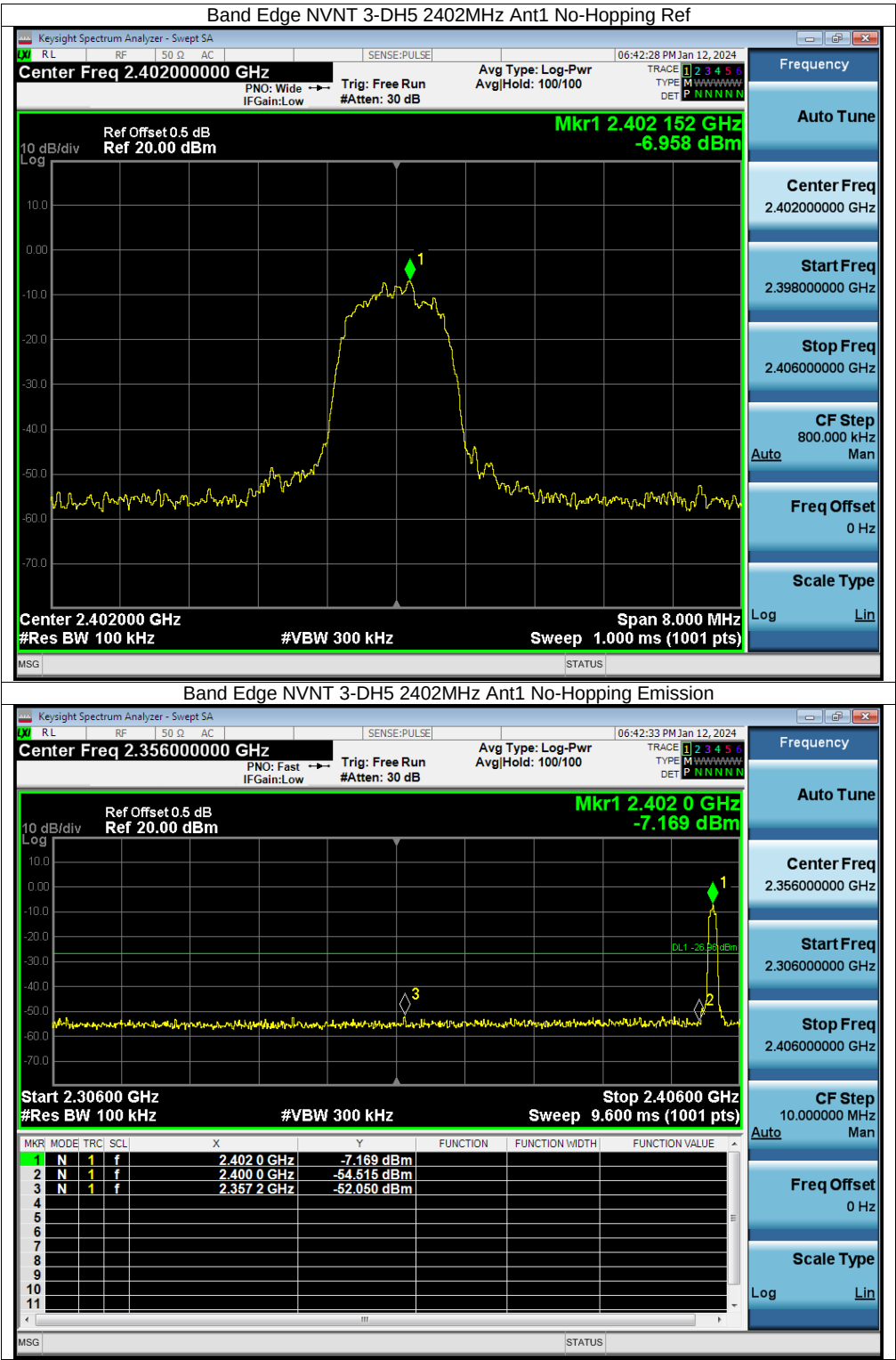
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-49.166	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-49.857	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-45.43	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-41.098	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-45.092	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-45.249	-20	Pass

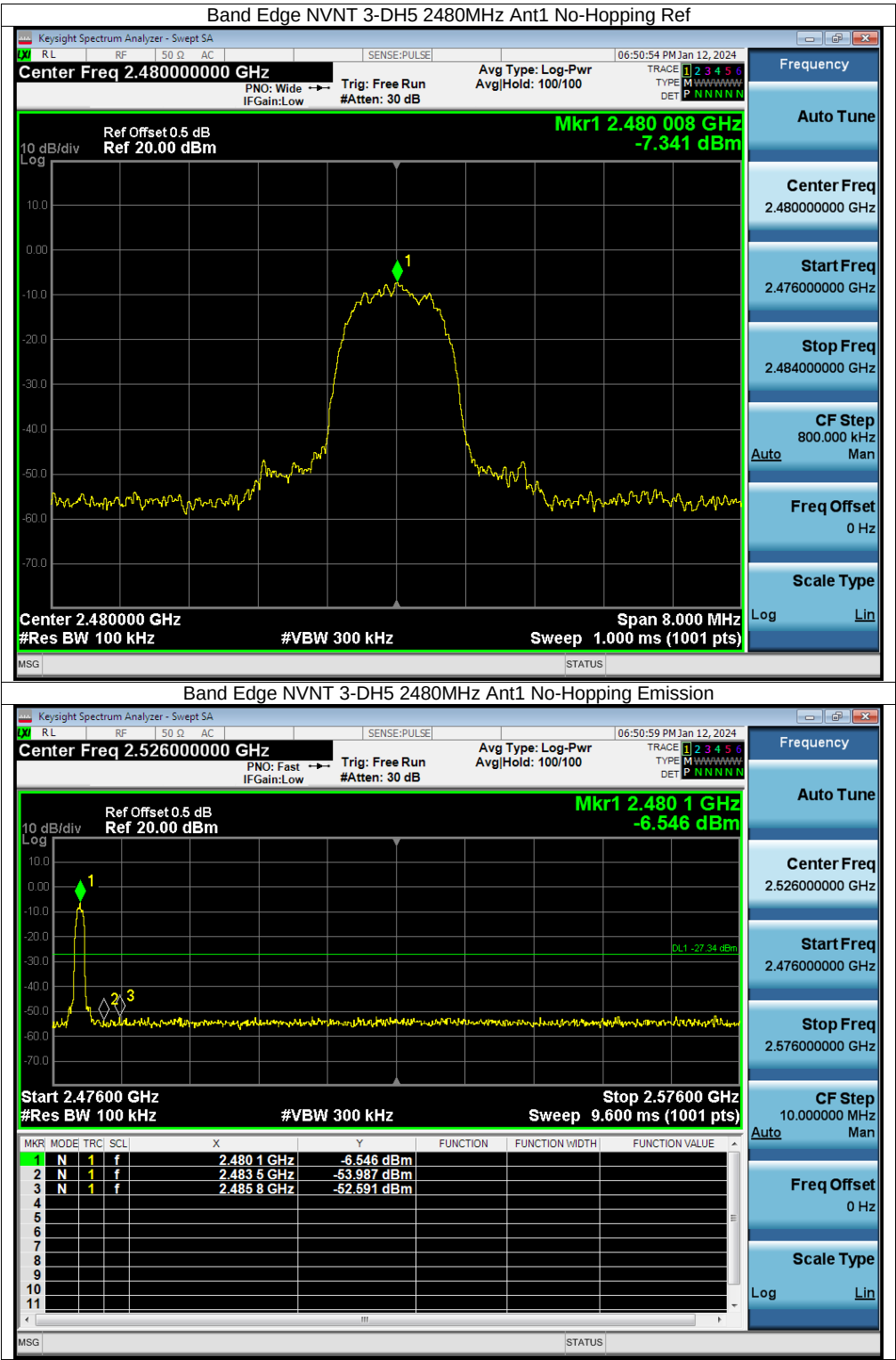






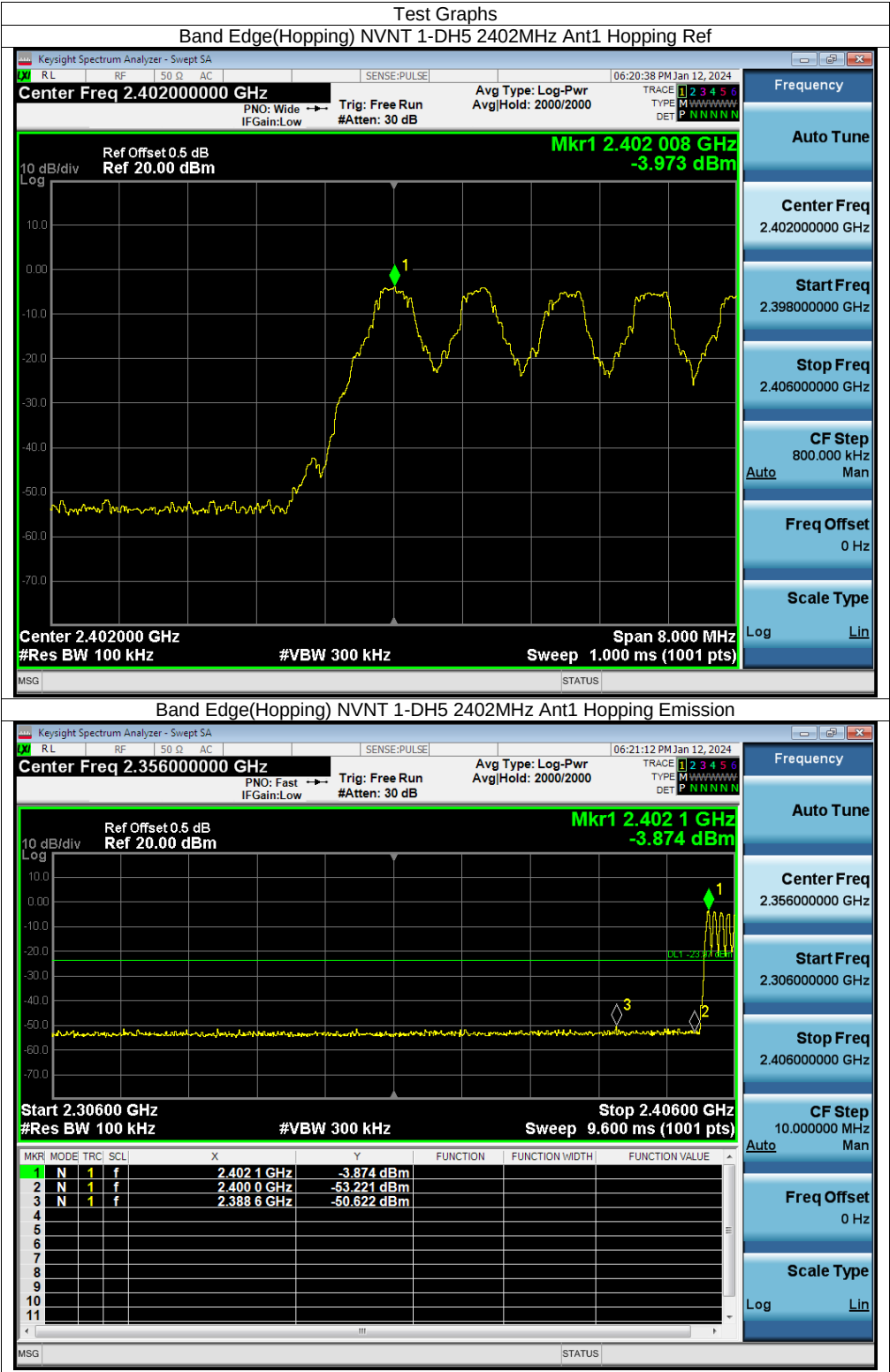




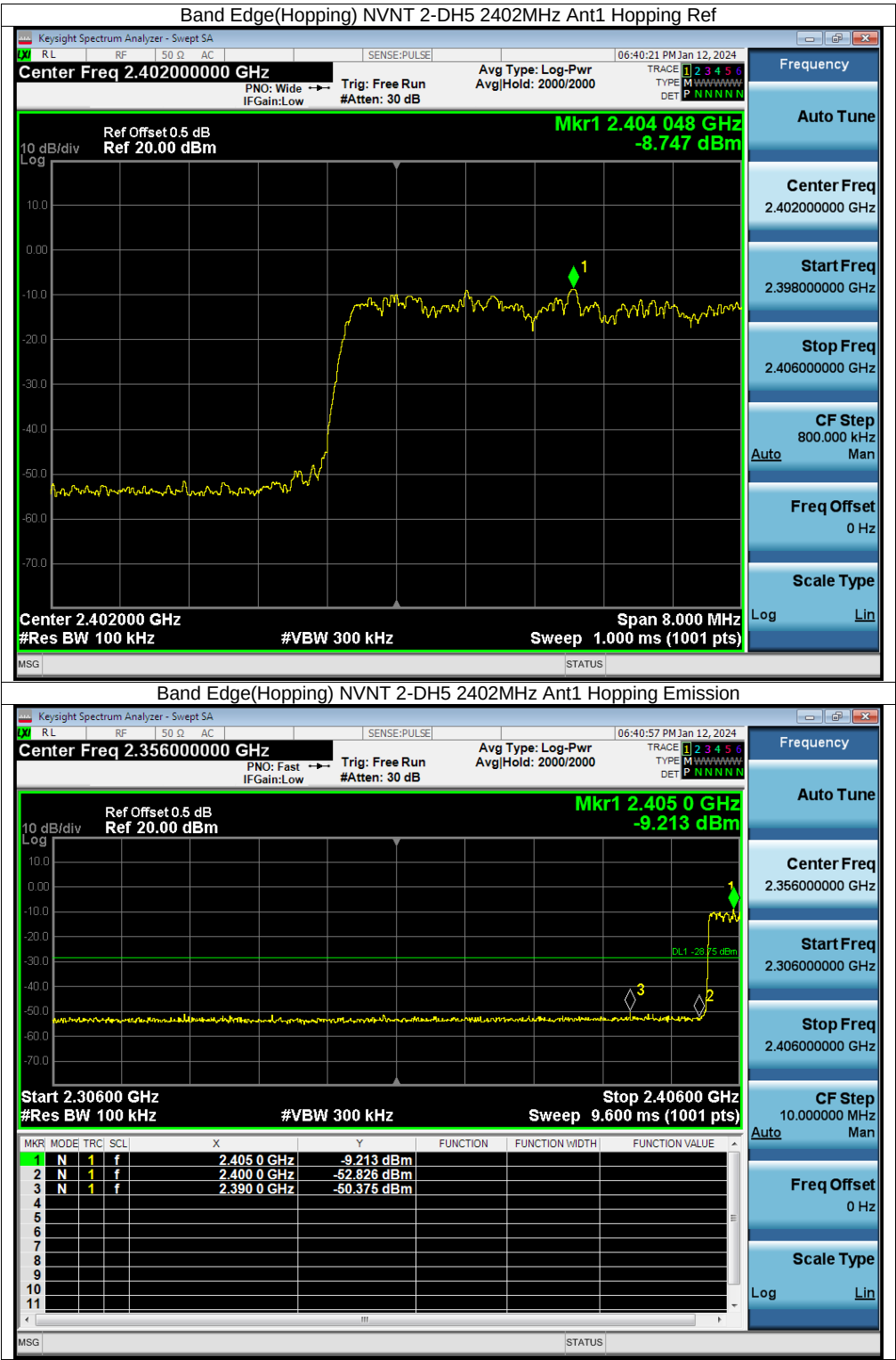


Band Edge(Hopping)

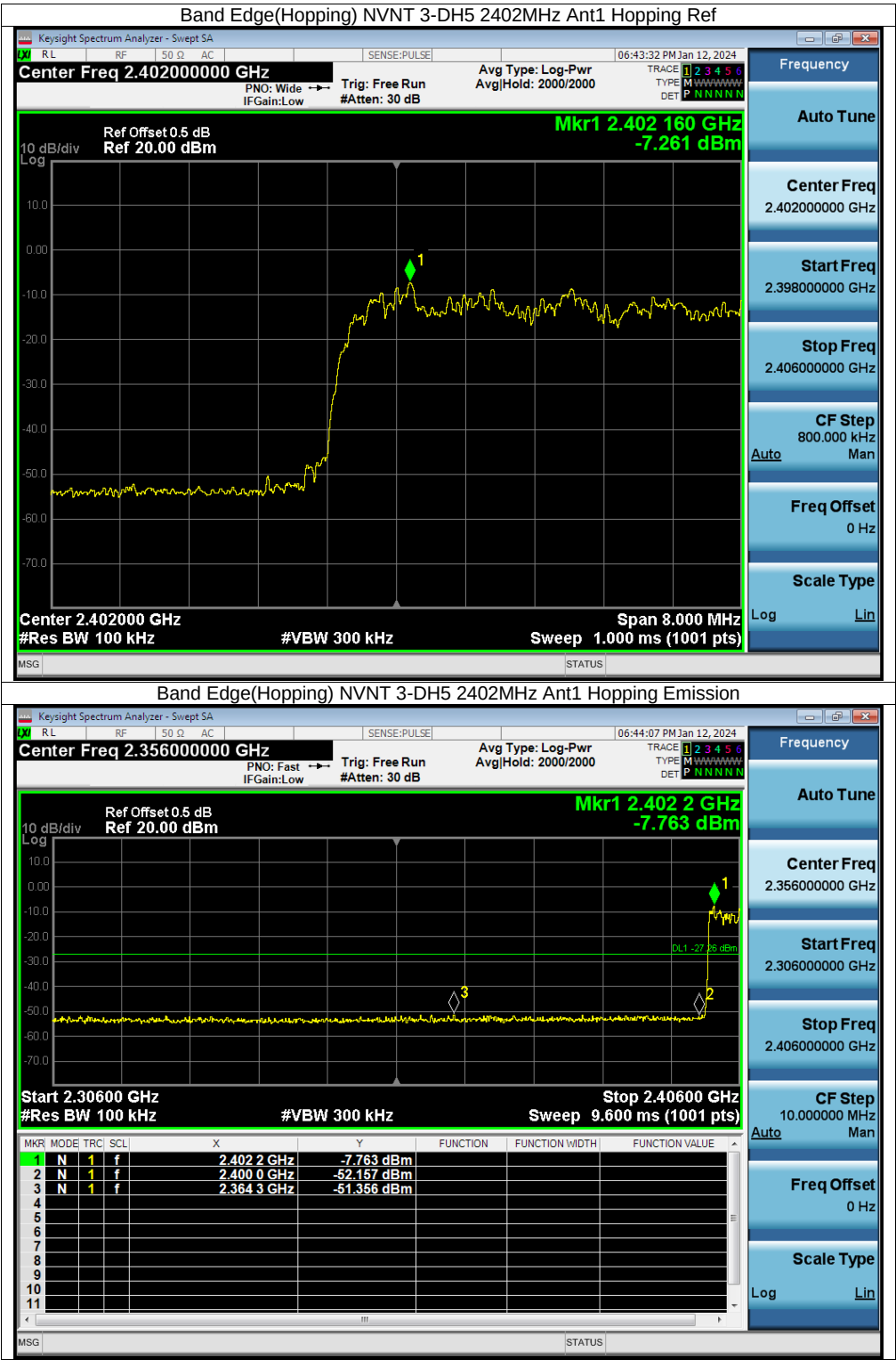
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-46.647	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-43.866	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-41.623	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-39.004	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-44.099	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-46.318	-20	Pass







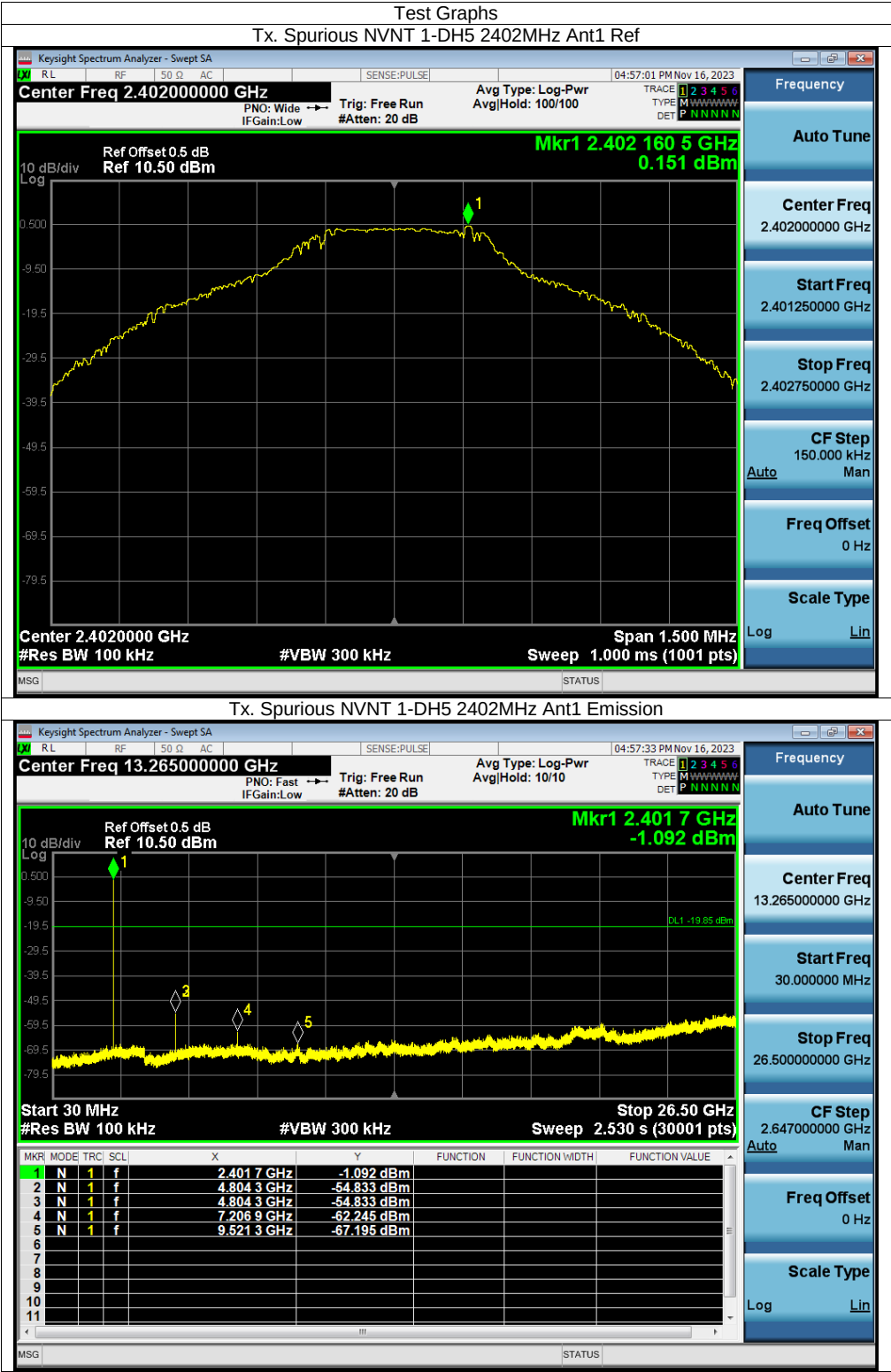


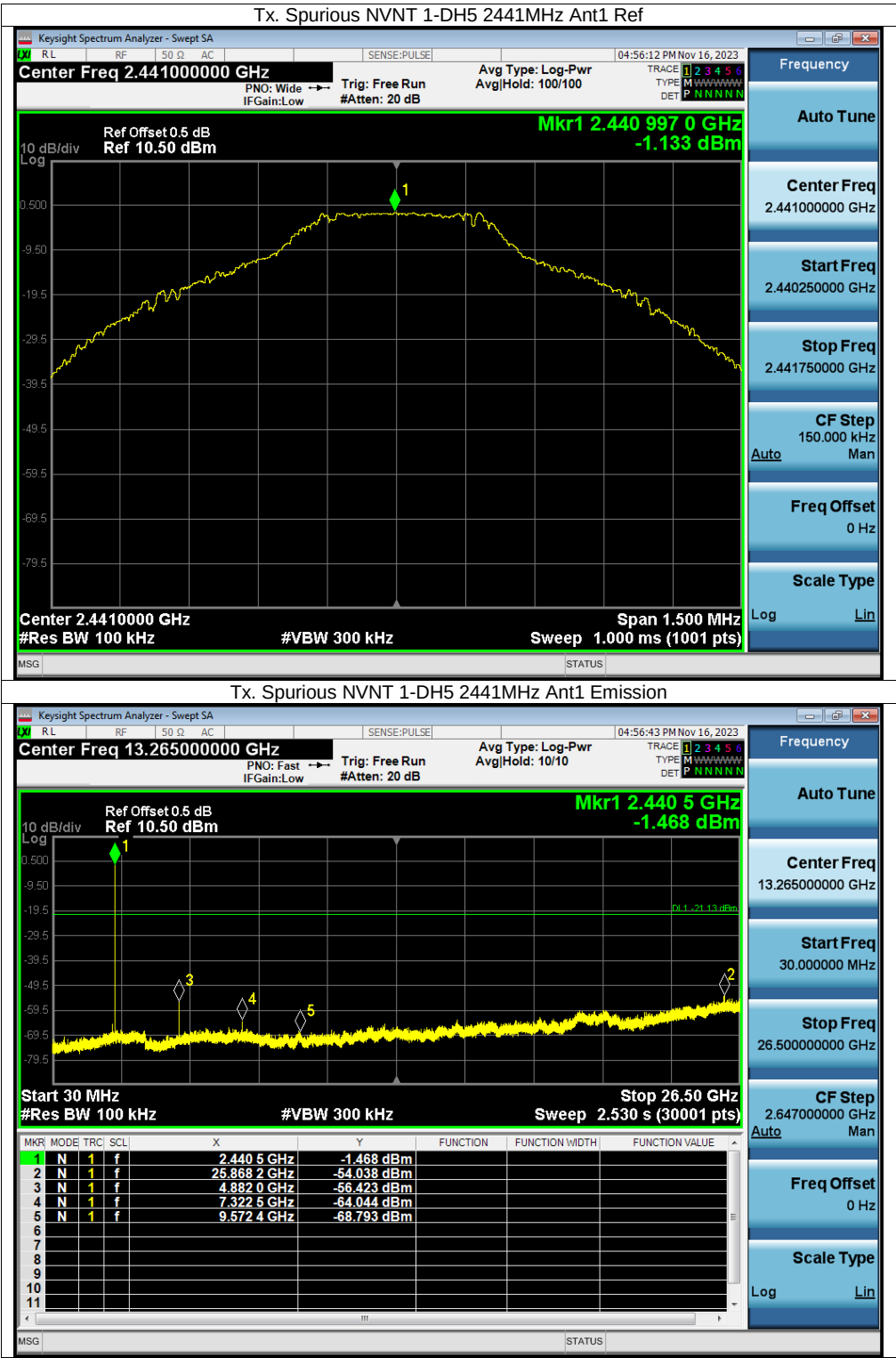


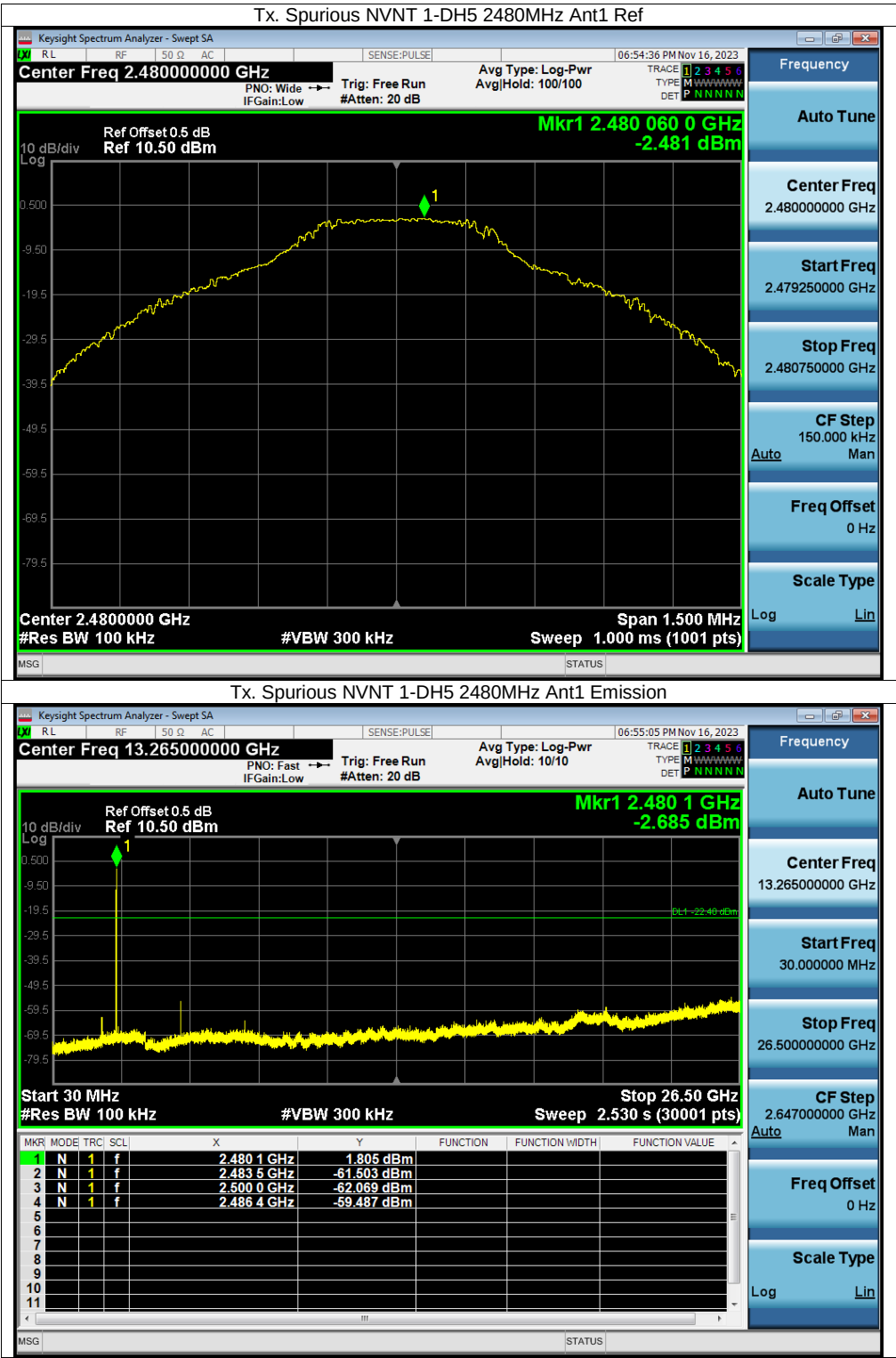


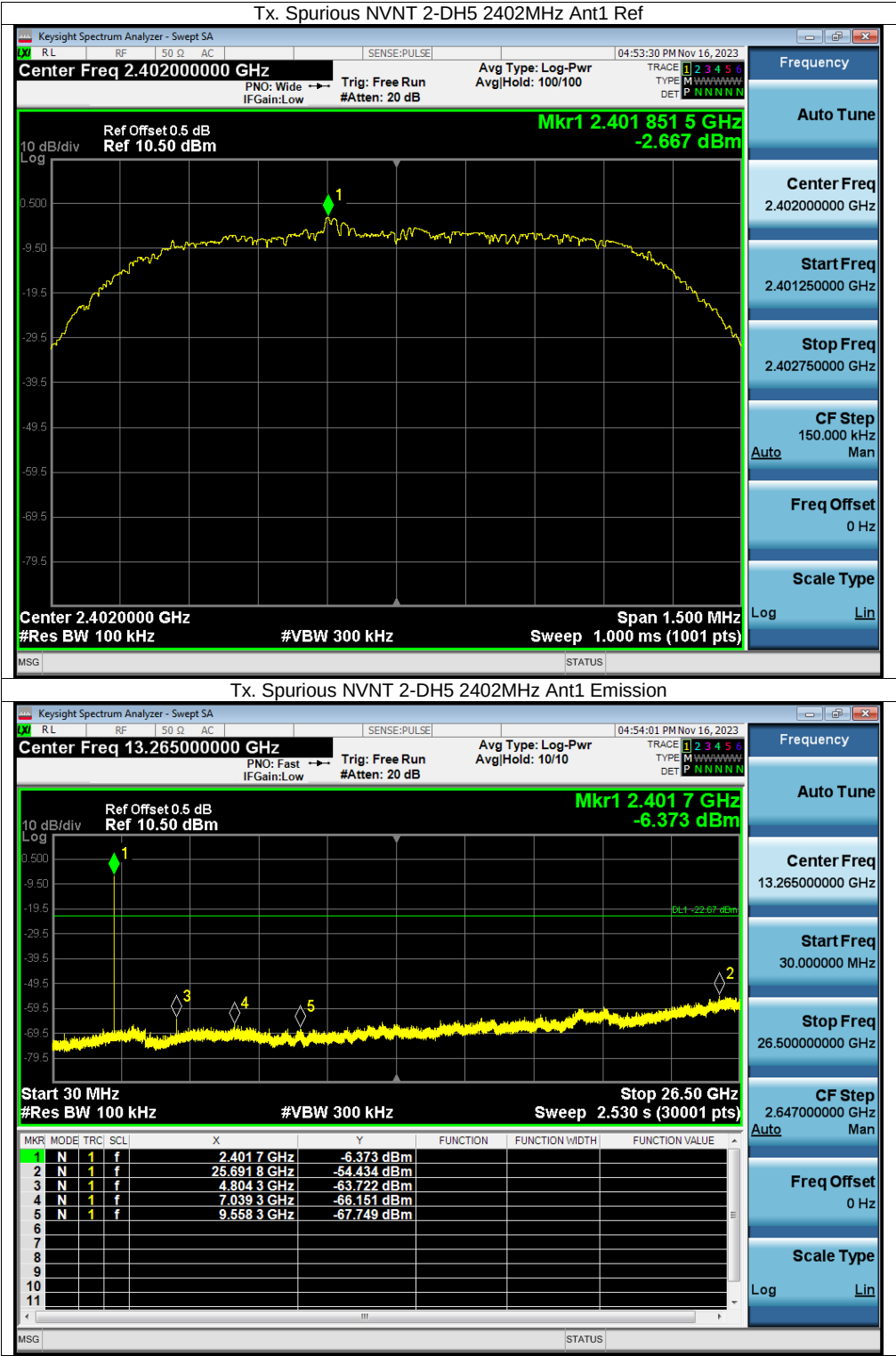
Conducted RF Spurious Emission

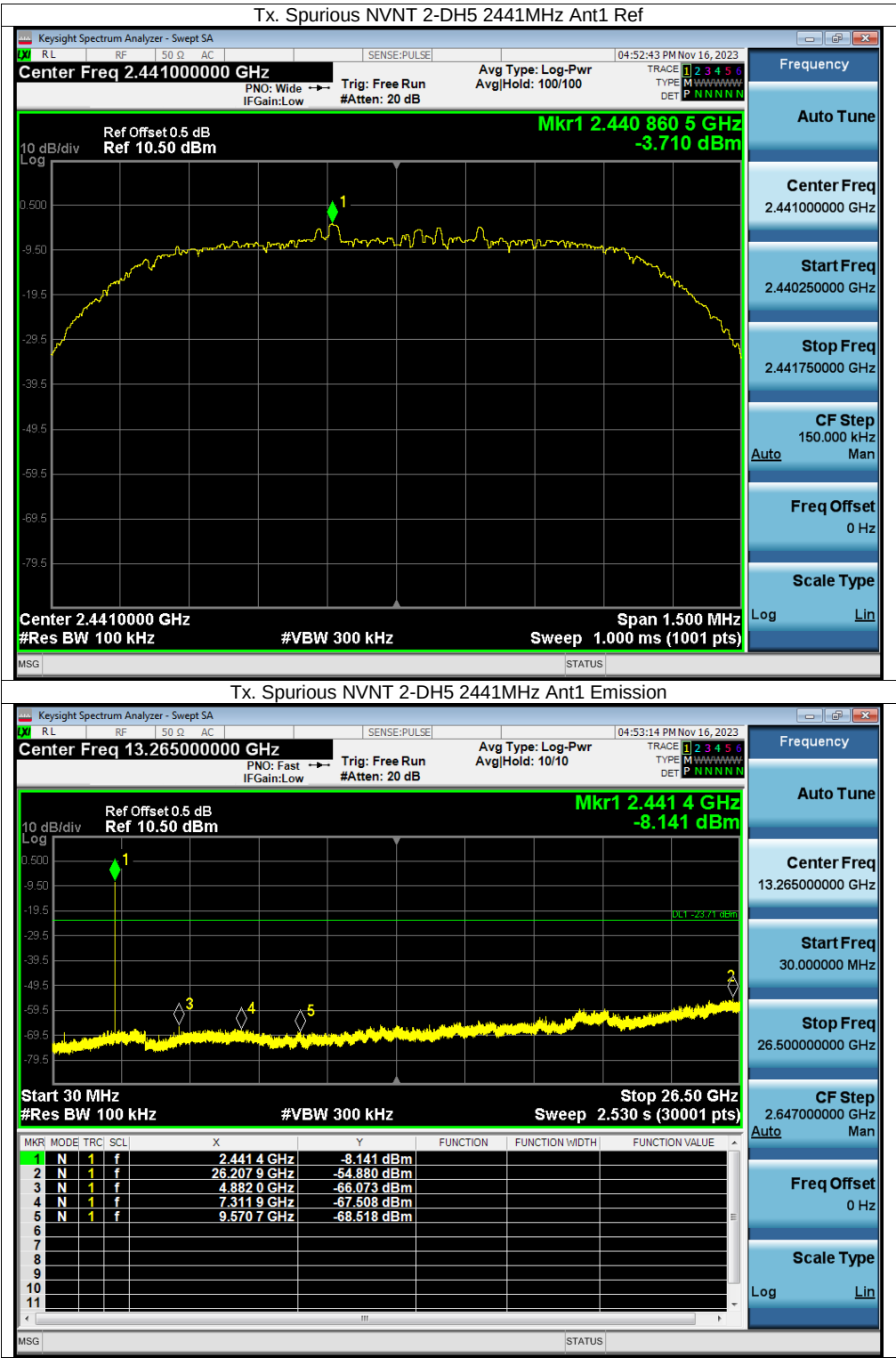
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-54.98	-20	Pass
NVNT	1-DH5	2441	Ant1	-52.9	-20	Pass
NVNT	1-DH5	2480	Ant1	-51.93	-20	Pass
NVNT	2-DH5	2402	Ant1	-51.76	-20	Pass
NVNT	2-DH5	2441	Ant1	-51.16	-20	Pass
NVNT	2-DH5	2480	Ant1	-49.52	-20	Pass
NVNT	3-DH5	2402	Ant1	-47.79	-20	Pass
NVNT	3-DH5	2441	Ant1	-51.13	-20	Pass
NVNT	3-DH5	2480	Ant1	-48.51	-20	Pass

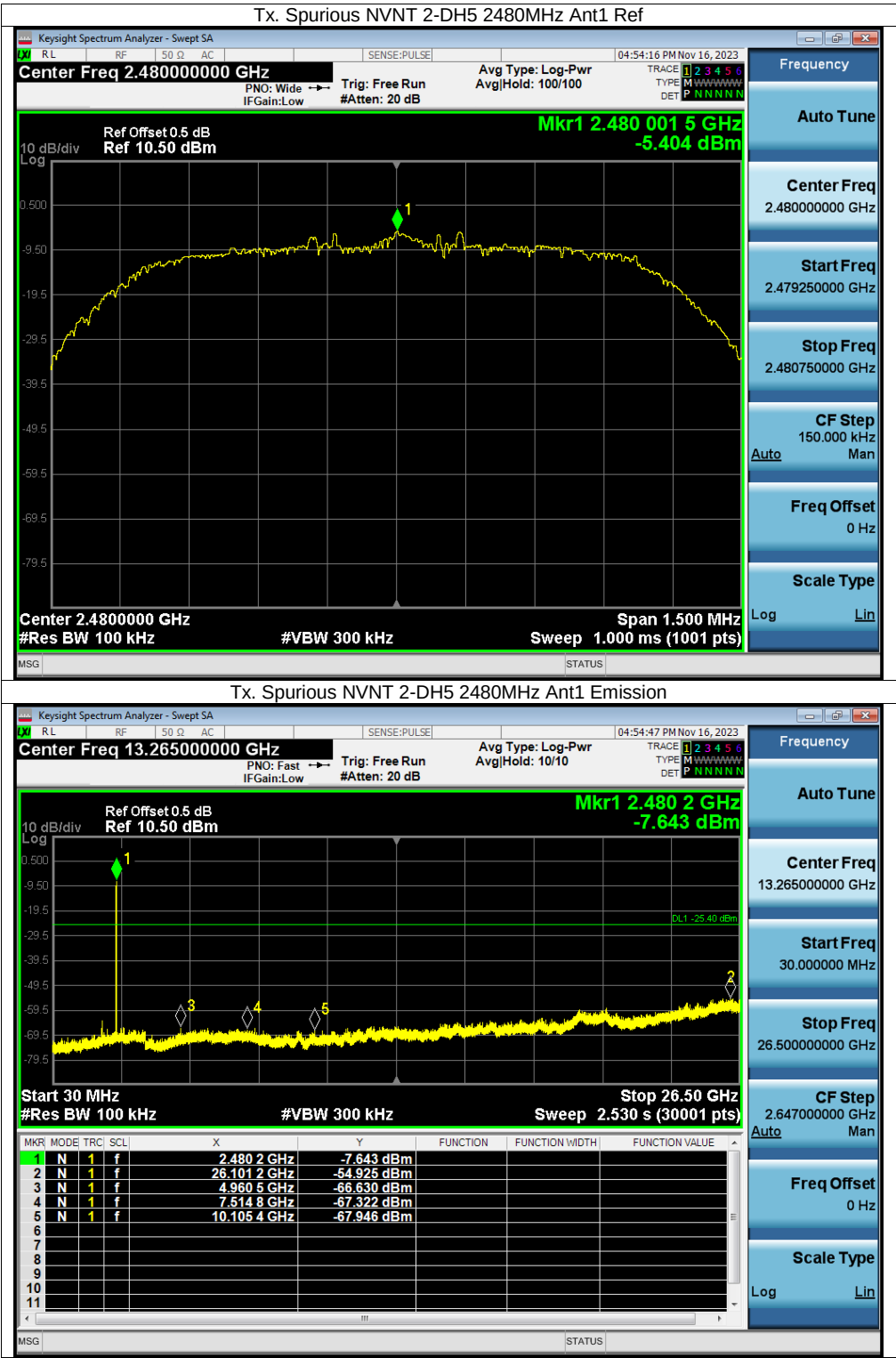


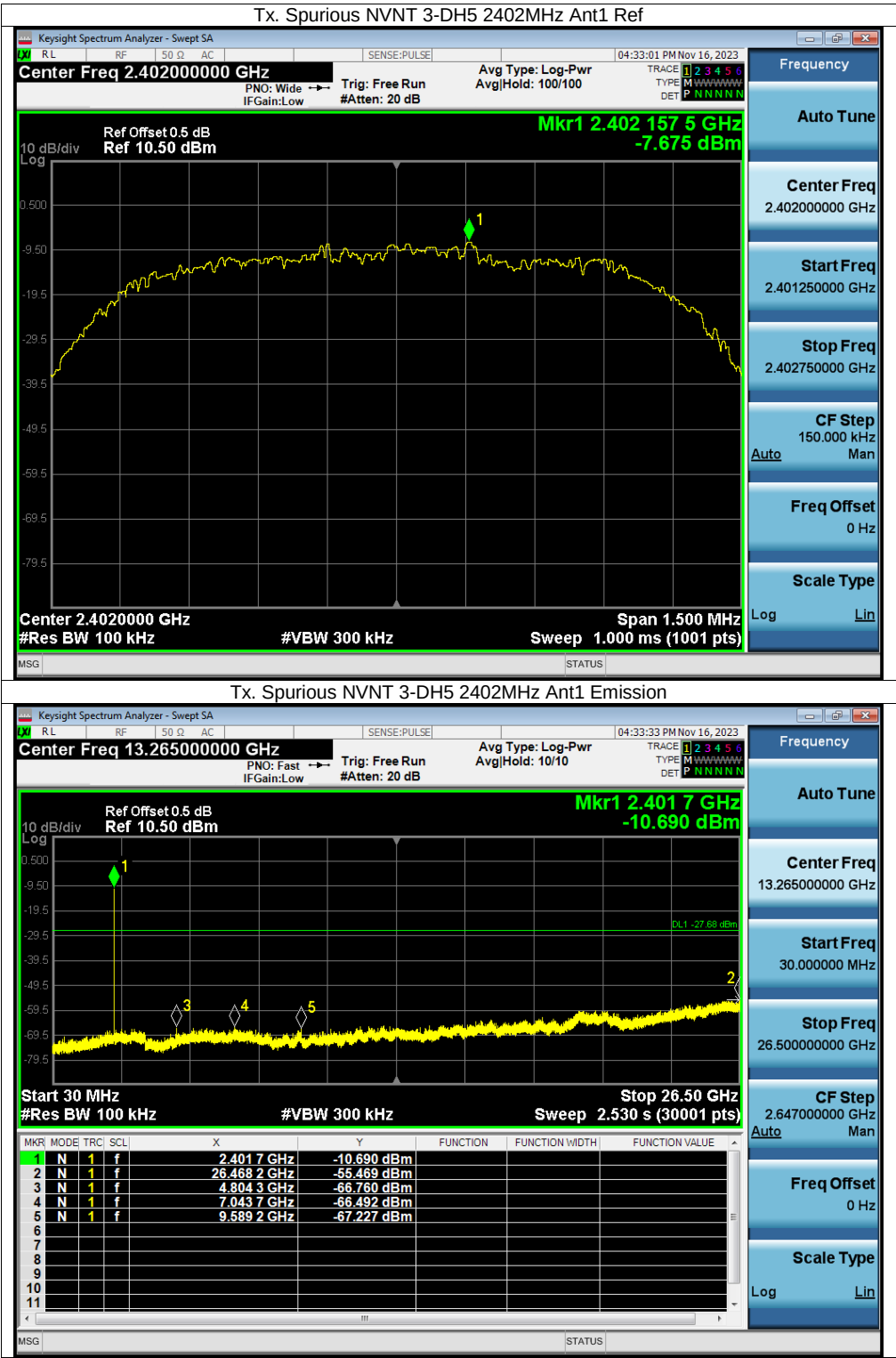


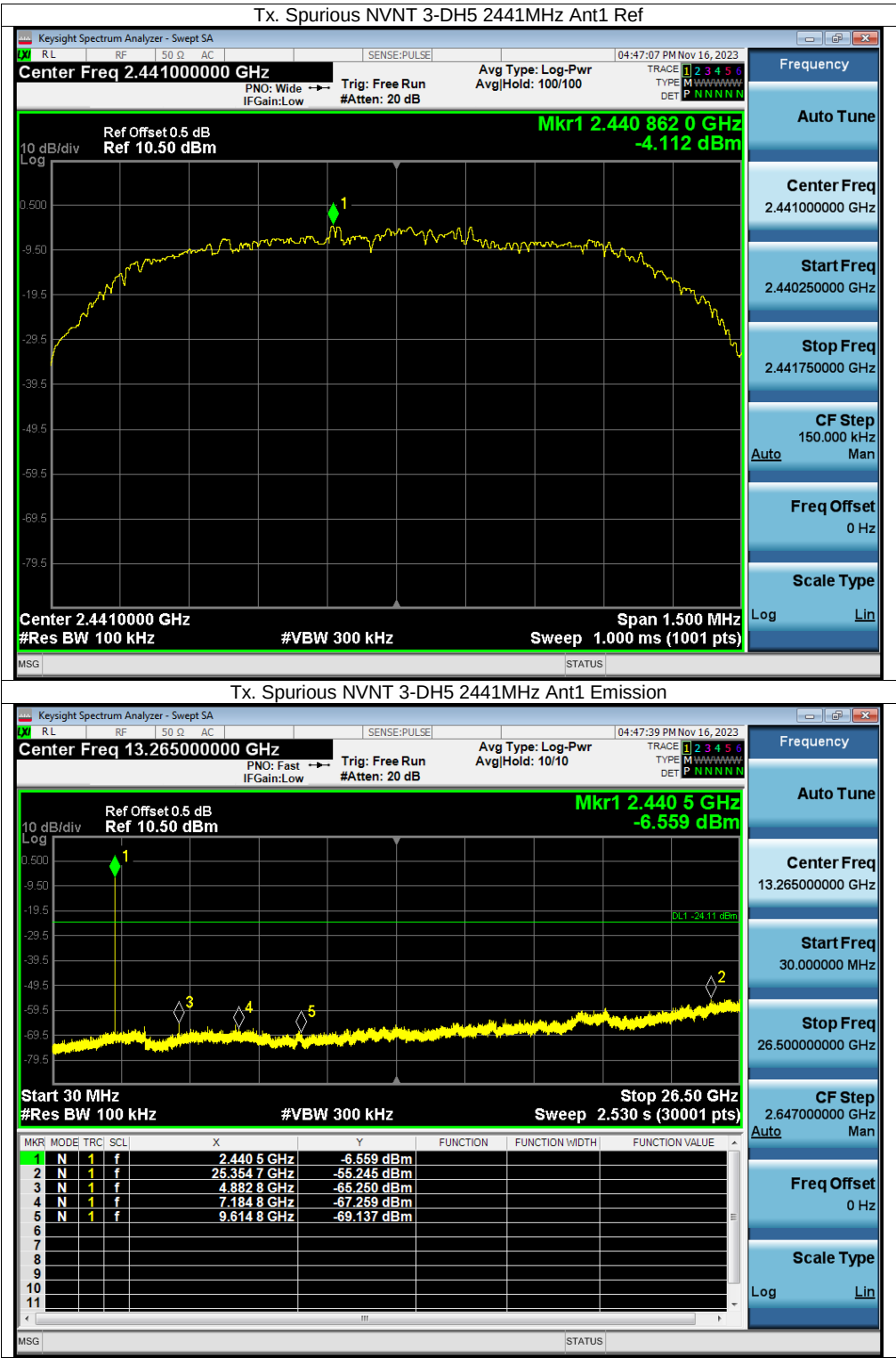


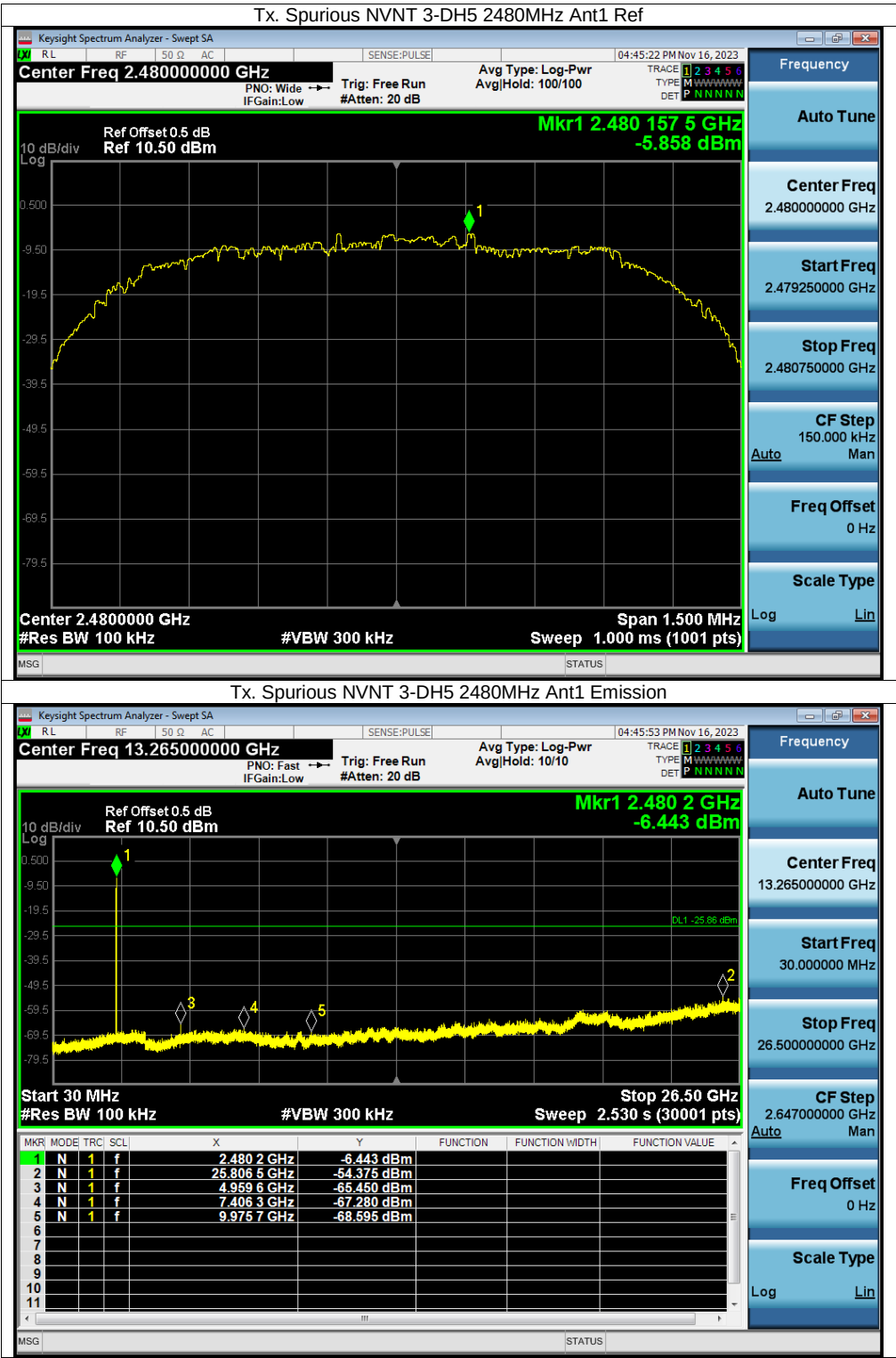










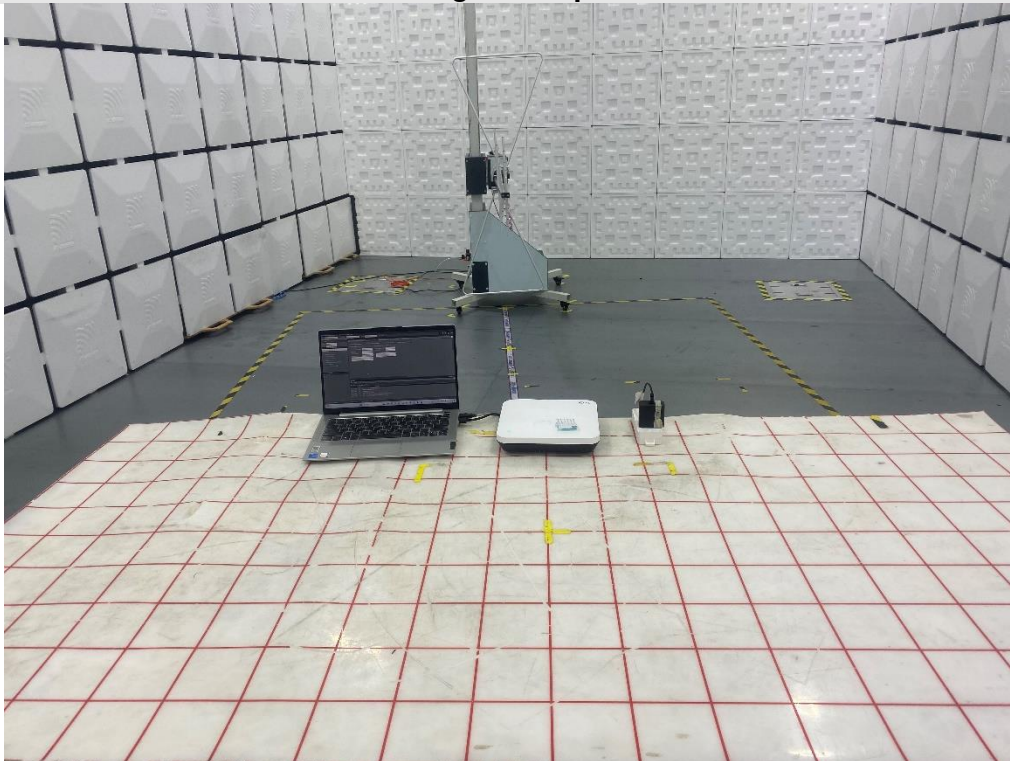


APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION

AC Power Line Conducted Emission



Radiated Band edge and Spurious Emission





END OF REPORT