

CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

Smart Projector

MODEL NUMBER: HY300

REPORT NUMBER: E01A23070868F00302

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Prepared for

**GuangDong SINOY Smart Technology CO., LTD
5TH Floor, Building #2, RunFengZhiGu Industrial Park, Changpin Town, DongGuan
City, Guangdong, China**

Prepared by

Dong Guan Anci Electronic Technology Co., Ltd.

**1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan, Lake Hi-
tech Industrial Development Zone, Dongguan City, Guangdong Pr.,
China.**

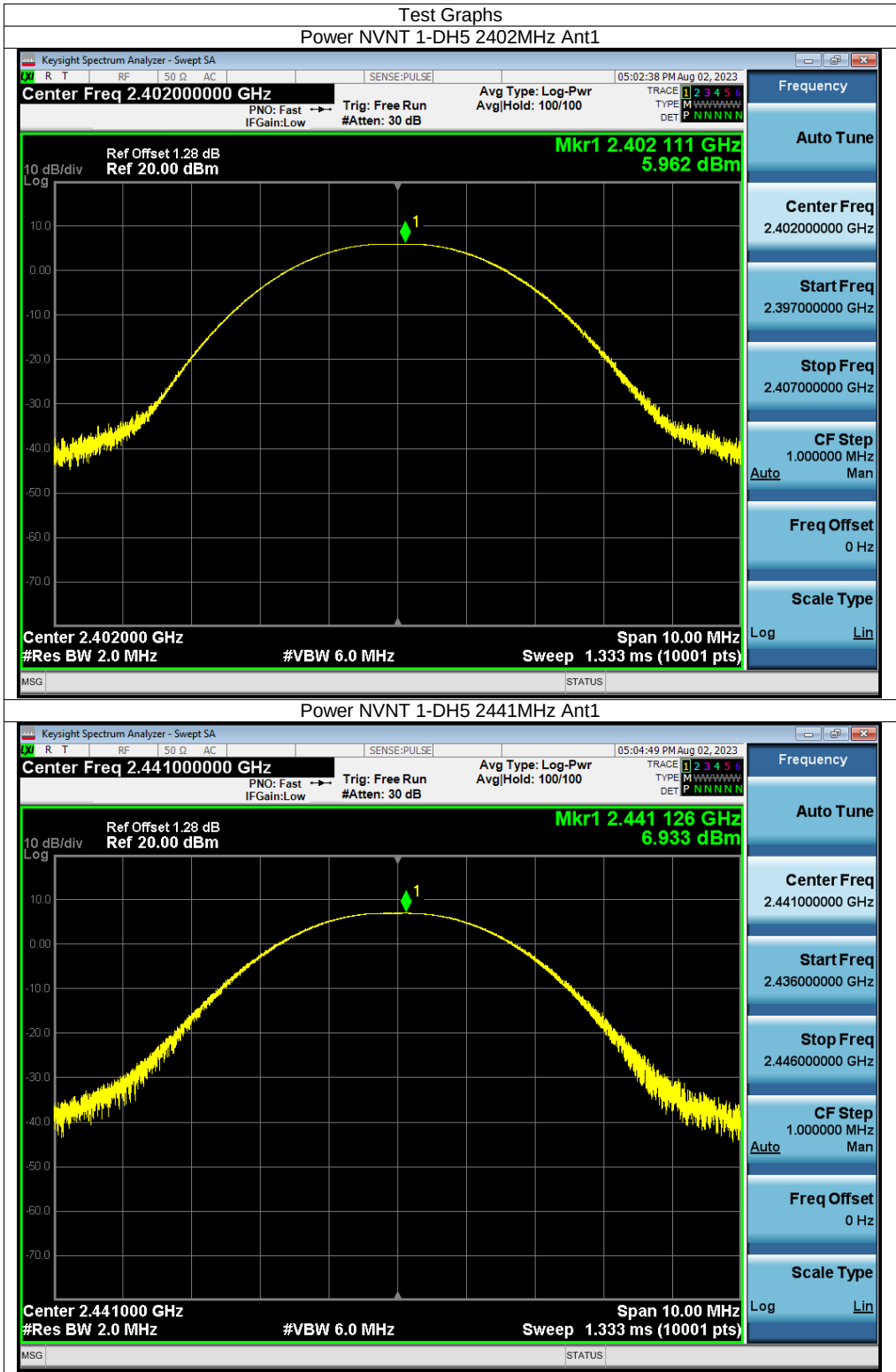
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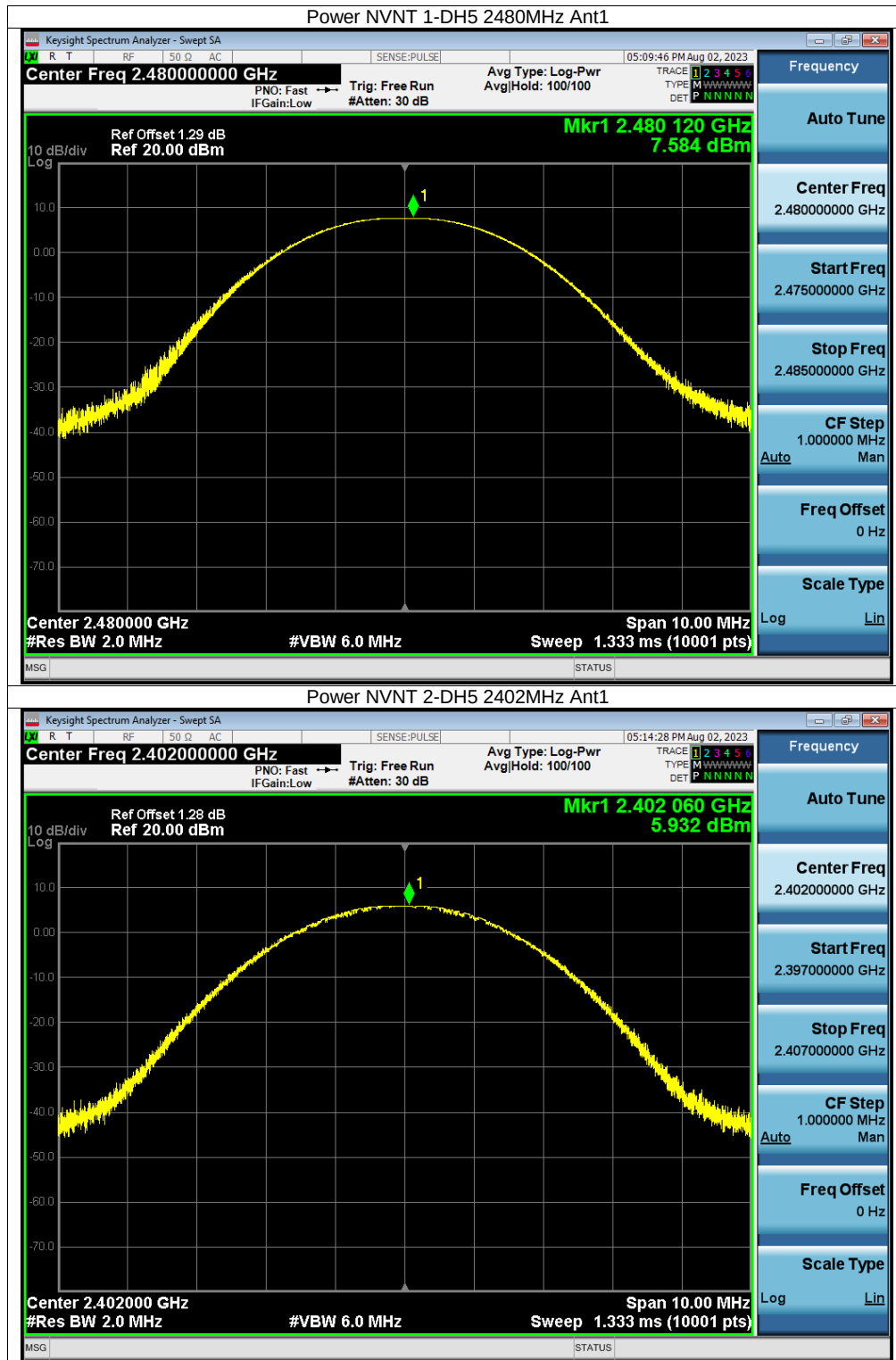
Revision History

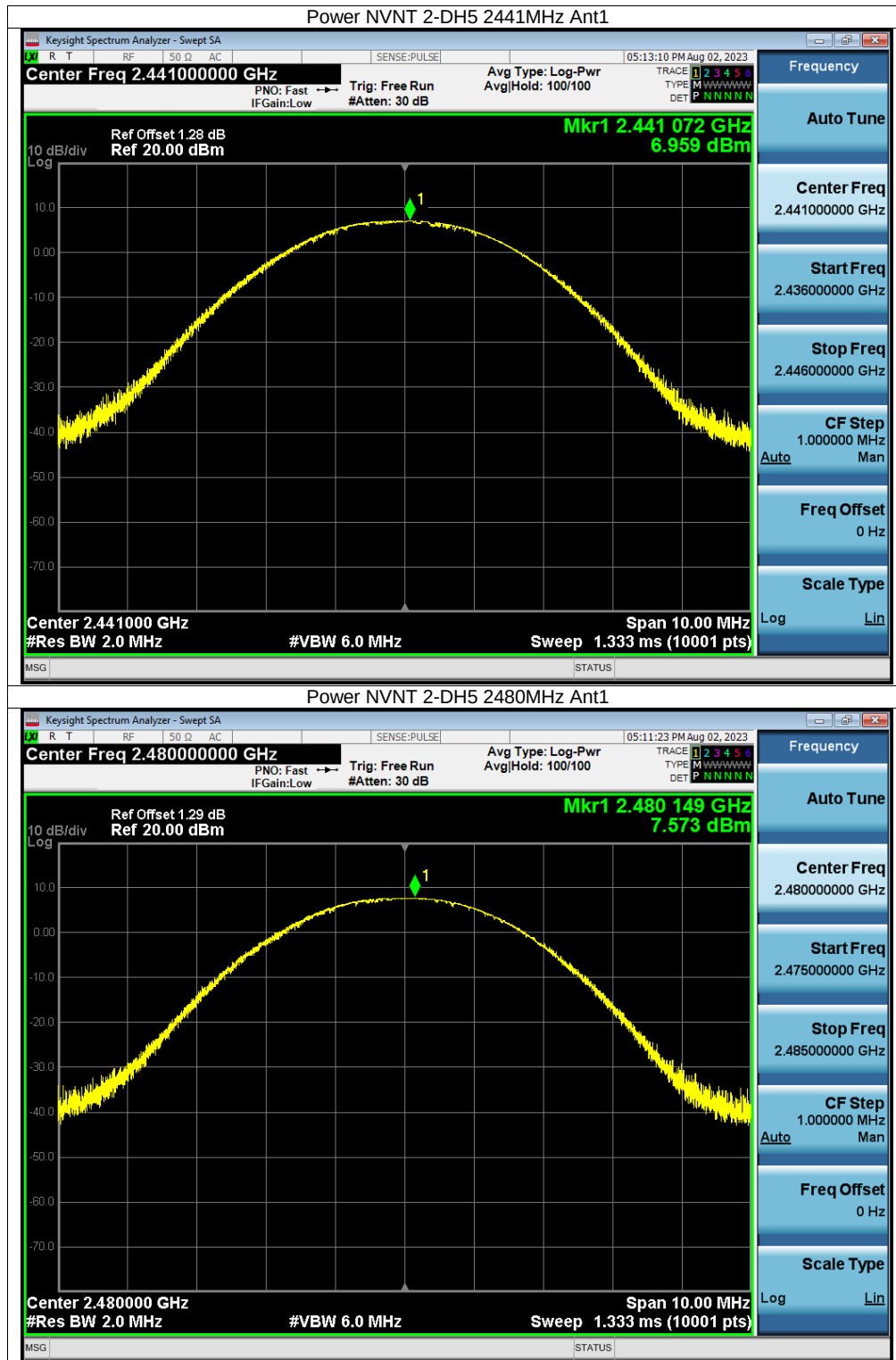
Rev.	Issue Date	Revisions	Revised By
V0	August 31, 2023	Initial Issue	Poal Chen

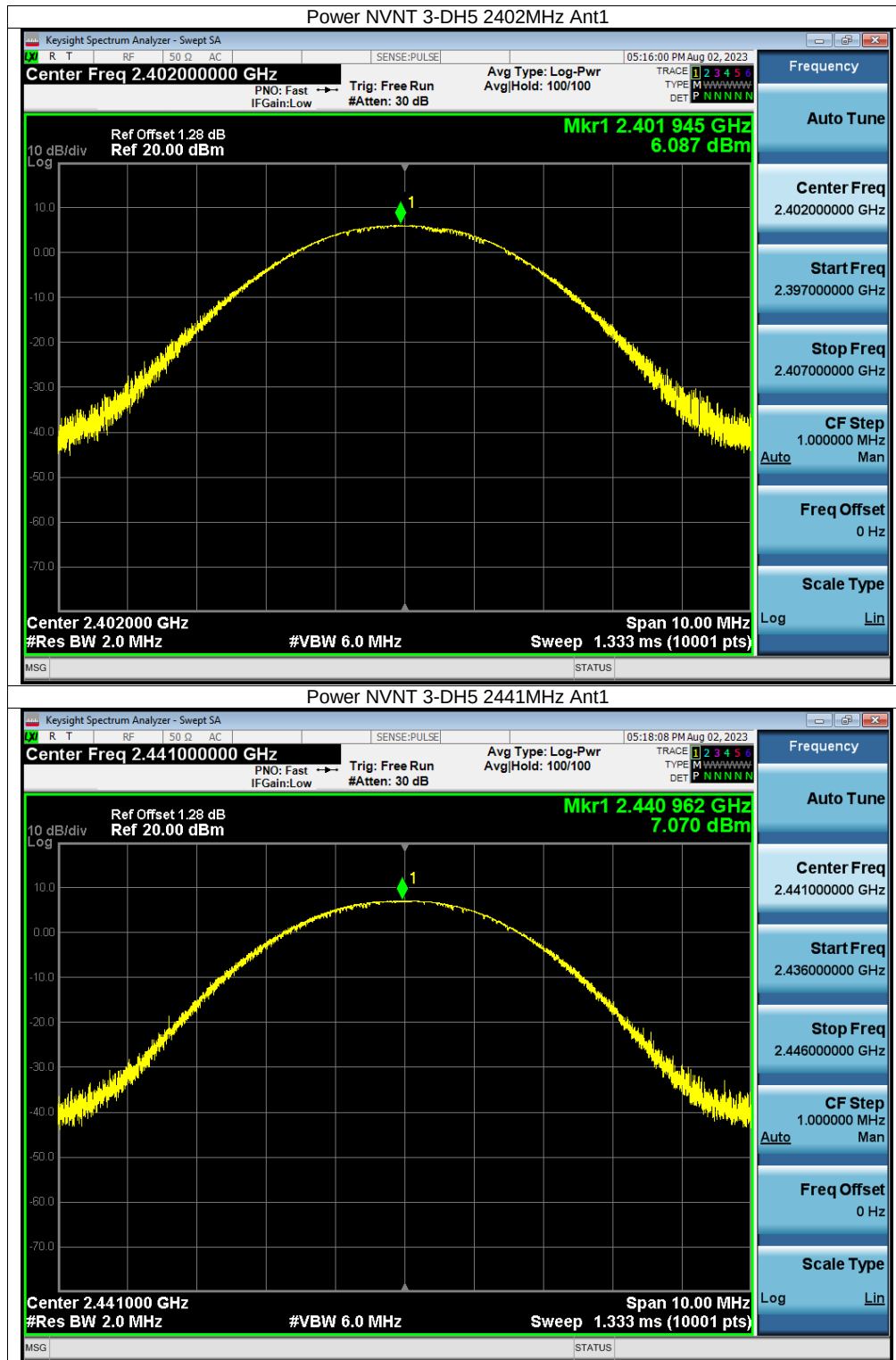
Appendix A Maximum Conducted Output Power

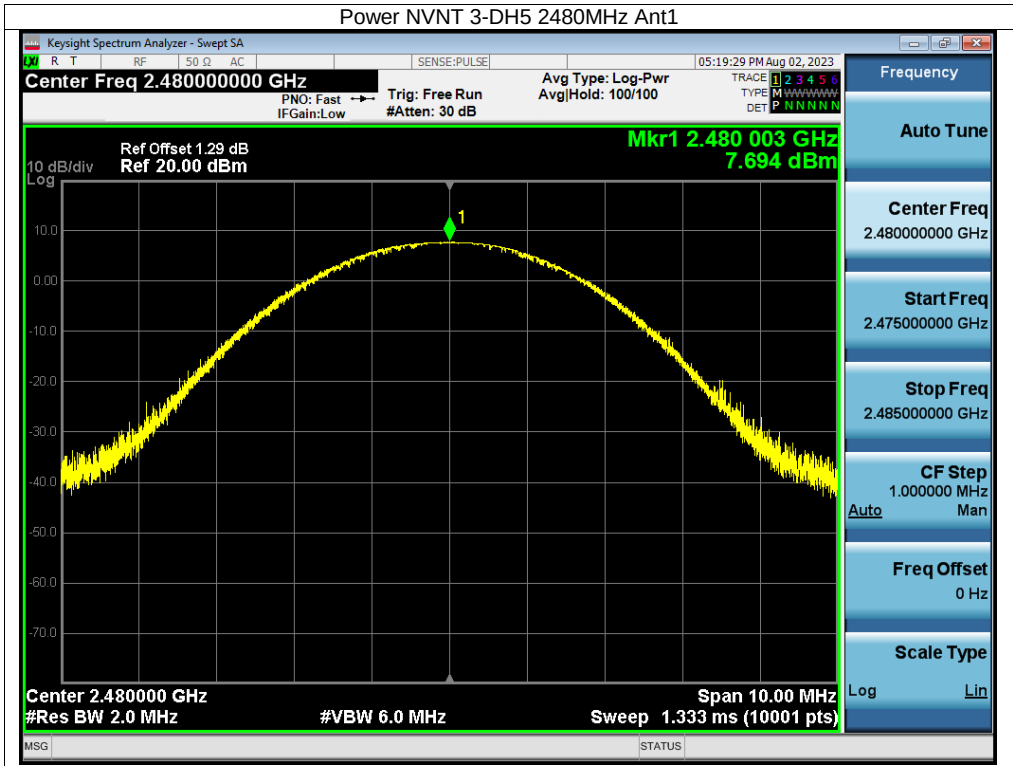
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	5.96	21	Pass
NVNT	1-DH5	2441	Ant1	6.93	21	Pass
NVNT	1-DH5	2480	Ant1	7.58	21	Pass
NVNT	2-DH5	2402	Ant1	5.93	21	Pass
NVNT	2-DH5	2441	Ant1	6.96	21	Pass
NVNT	2-DH5	2480	Ant1	7.57	21	Pass
NVNT	3-DH5	2402	Ant1	6.09	21	Pass
NVNT	3-DH5	2441	Ant1	7.07	21	Pass
NVNT	3-DH5	2480	Ant1	7.69	21	Pass





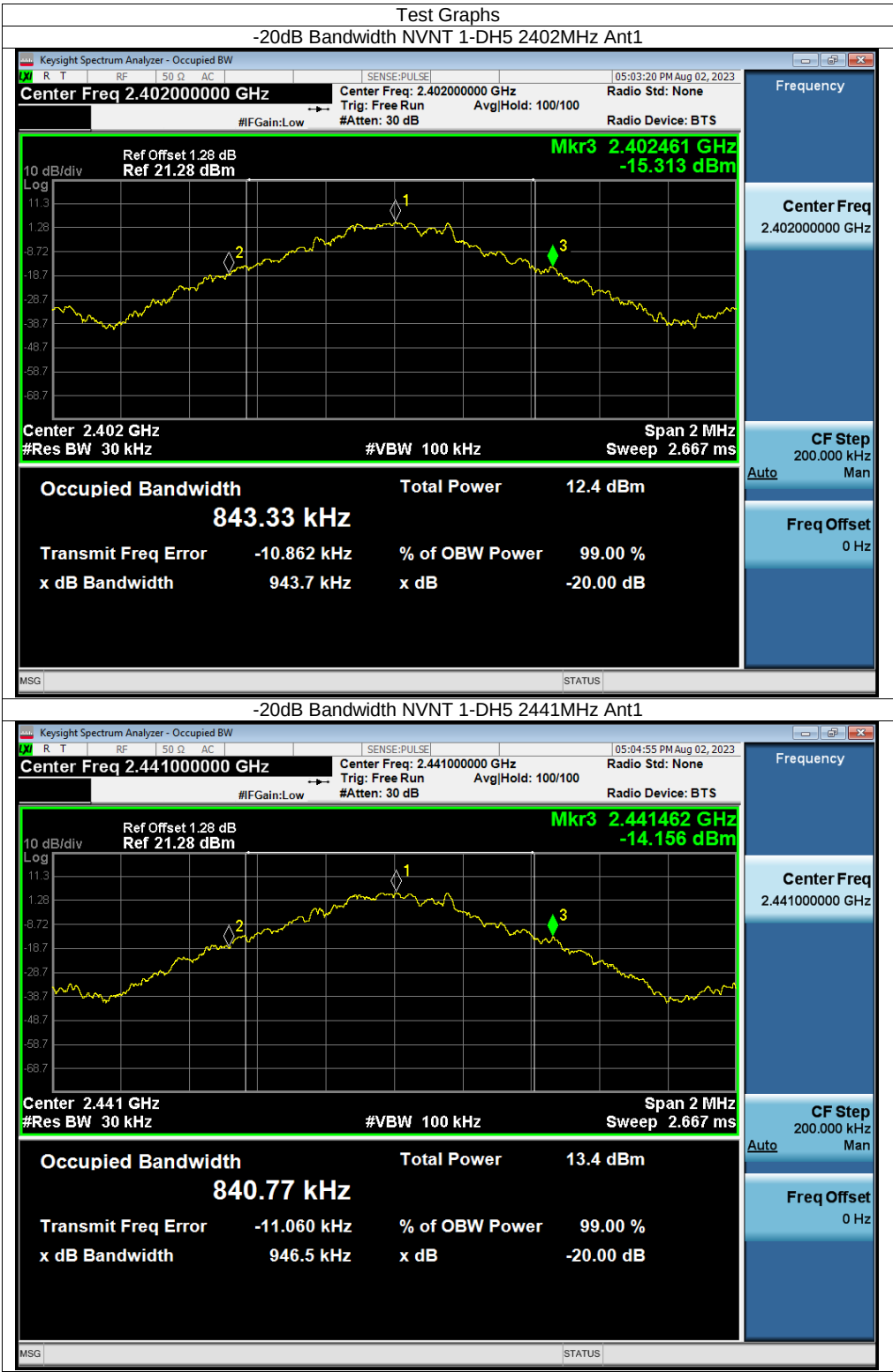






Appendix B -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)
NVNT	1-DH5	2402	Ant1	0.944
NVNT	1-DH5	2441	Ant1	0.946
NVNT	1-DH5	2480	Ant1	0.945
NVNT	2-DH5	2402	Ant1	1.252
NVNT	2-DH5	2441	Ant1	1.285
NVNT	2-DH5	2480	Ant1	1.289
NVNT	3-DH5	2402	Ant1	1.259
NVNT	3-DH5	2441	Ant1	1.302
NVNT	3-DH5	2480	Ant1	1.283



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

Keysight Spectrum Analyzer - Occupied BW

Center Freq 2.441000000 GHz

Center Freq: 2.441000000 GHz

Trig: Free Run

Avg|Hold: 100/100

Radio Std: None

Radio Device: BTS

Ref Offset 1.28 dB

Ref 21.28 dBm

10 dB/div

Log

11.3

1.28

-8.72

-18.7

-28.7

-38.7

-48.7

-58.7

-68.7

Center 2.441 GHz

#Res BW 30 kHz

#VBW 100 kHz

Span 2 MHz

Sweep 2.667 ms

Occupied Bandwidth

840.77 kHz

Total Power

13.4 dBm

Transmit Freq Error

-11.060 kHz

% of OBW Power

99.00 %

x dB Bandwidth

946.5 kHz

x dB

-20.00 dB

MSG

STATUS

Frequency

Center Freq

2.441000000 GHz

CF Step

200.000 kHz

Auto

Man

Freq Offset

0 Hz

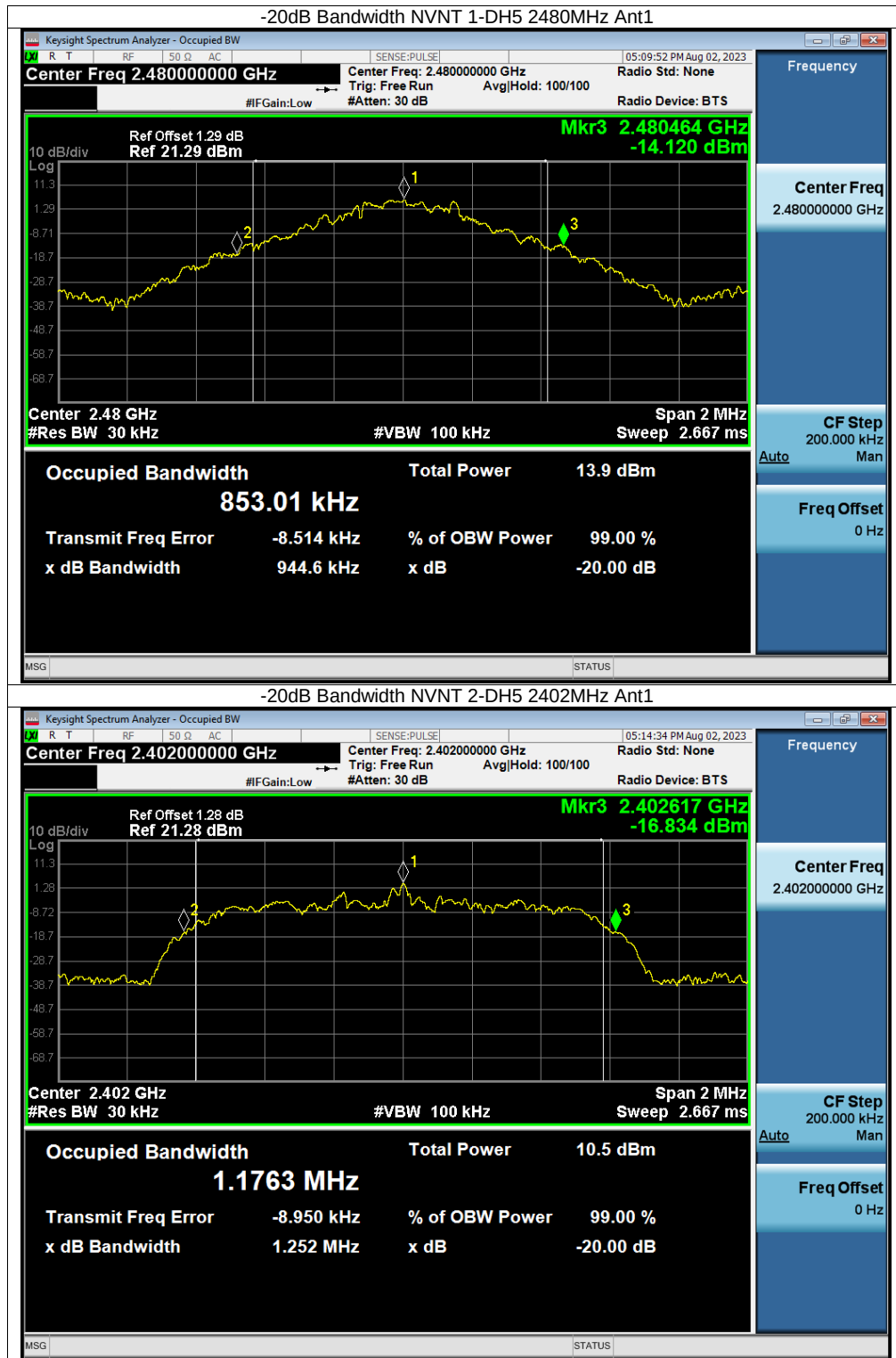
Mkr3 2.441462 GHz

-14.156 dBm

1

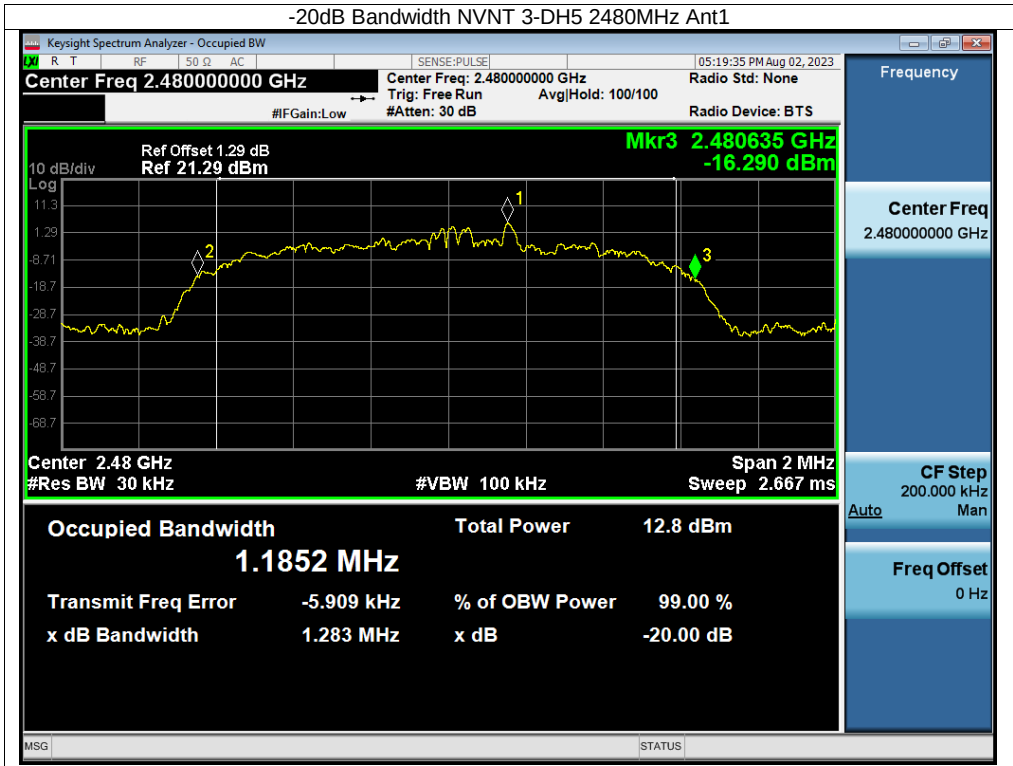
2

3



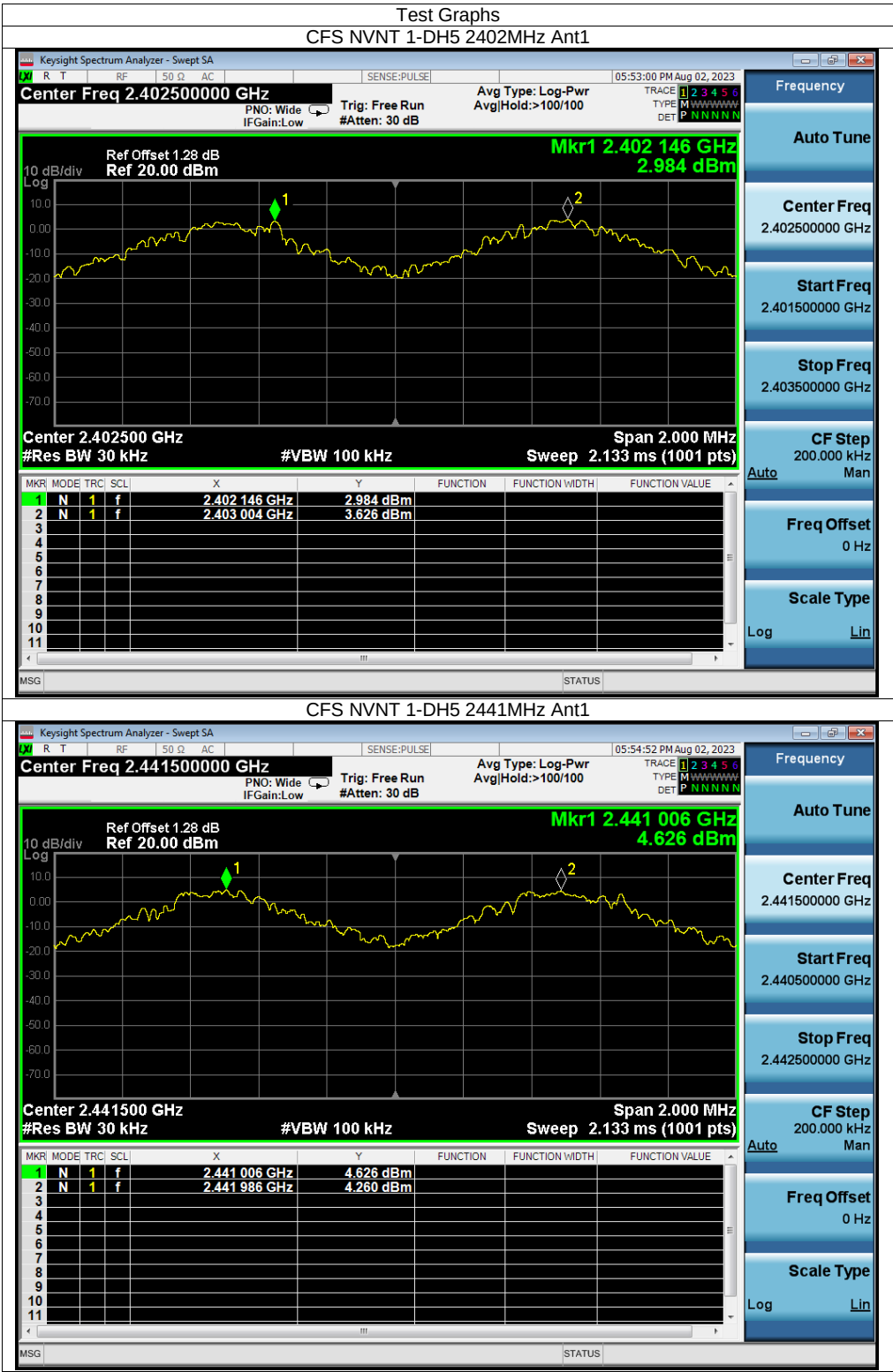


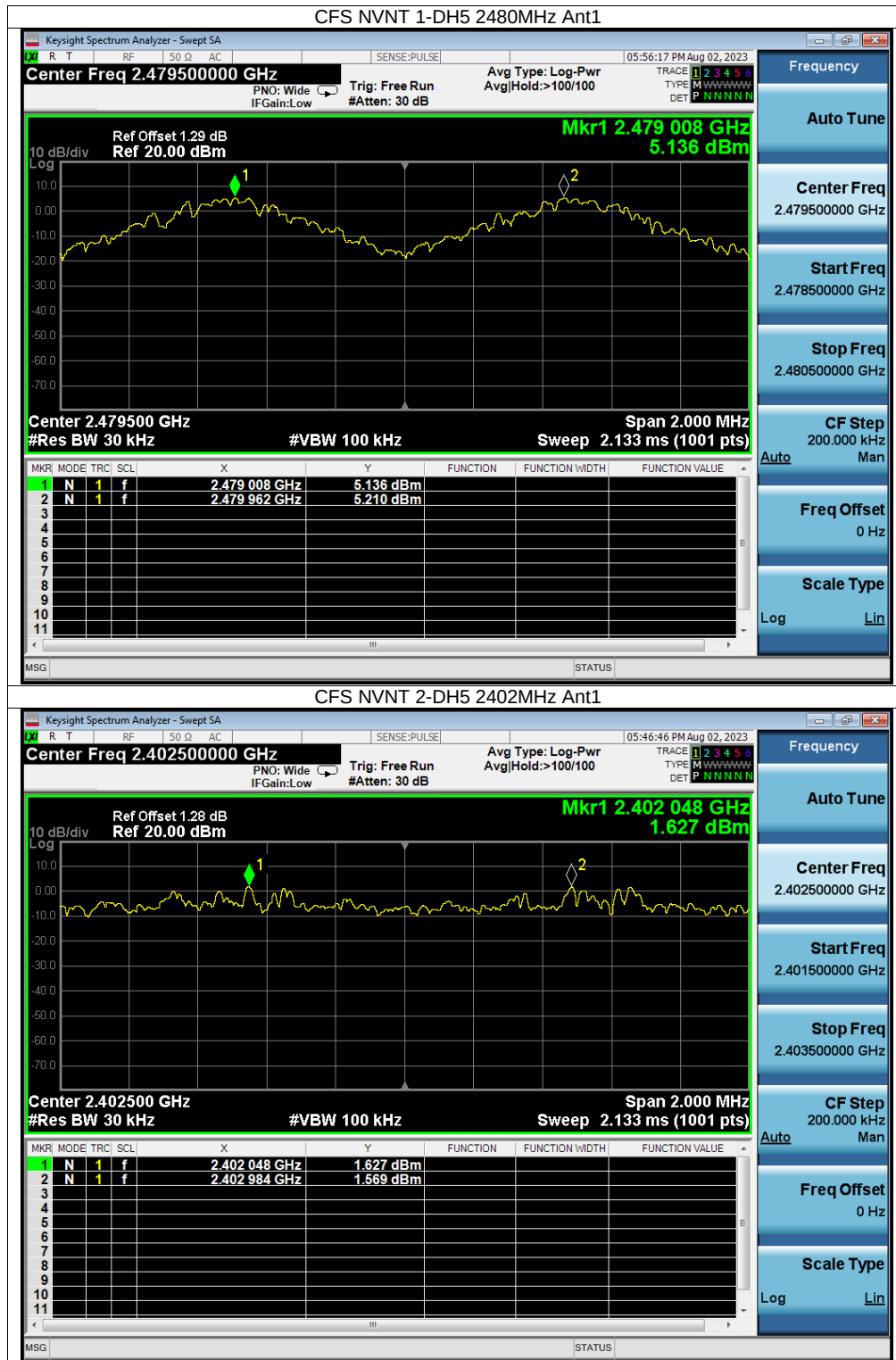


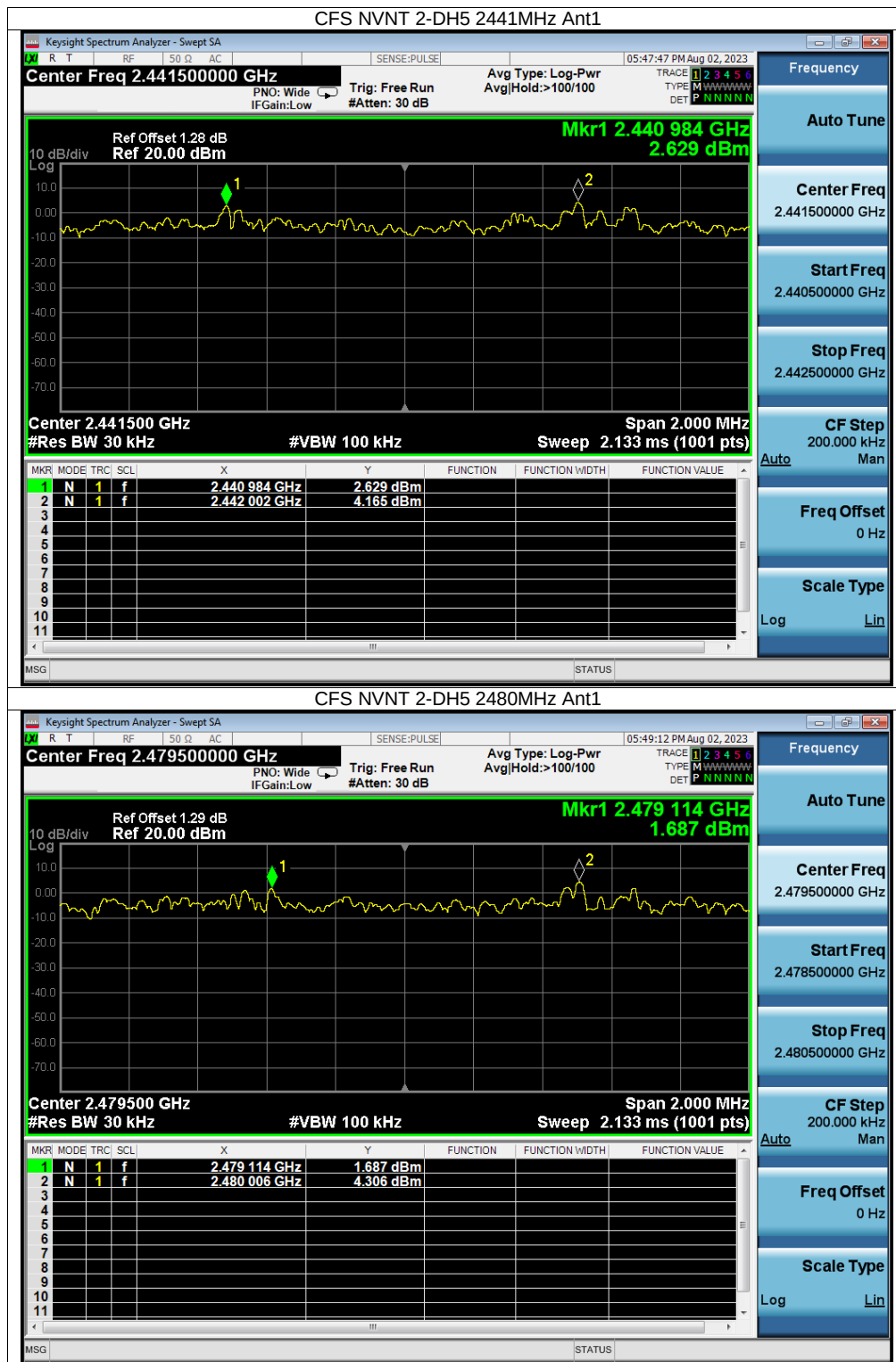


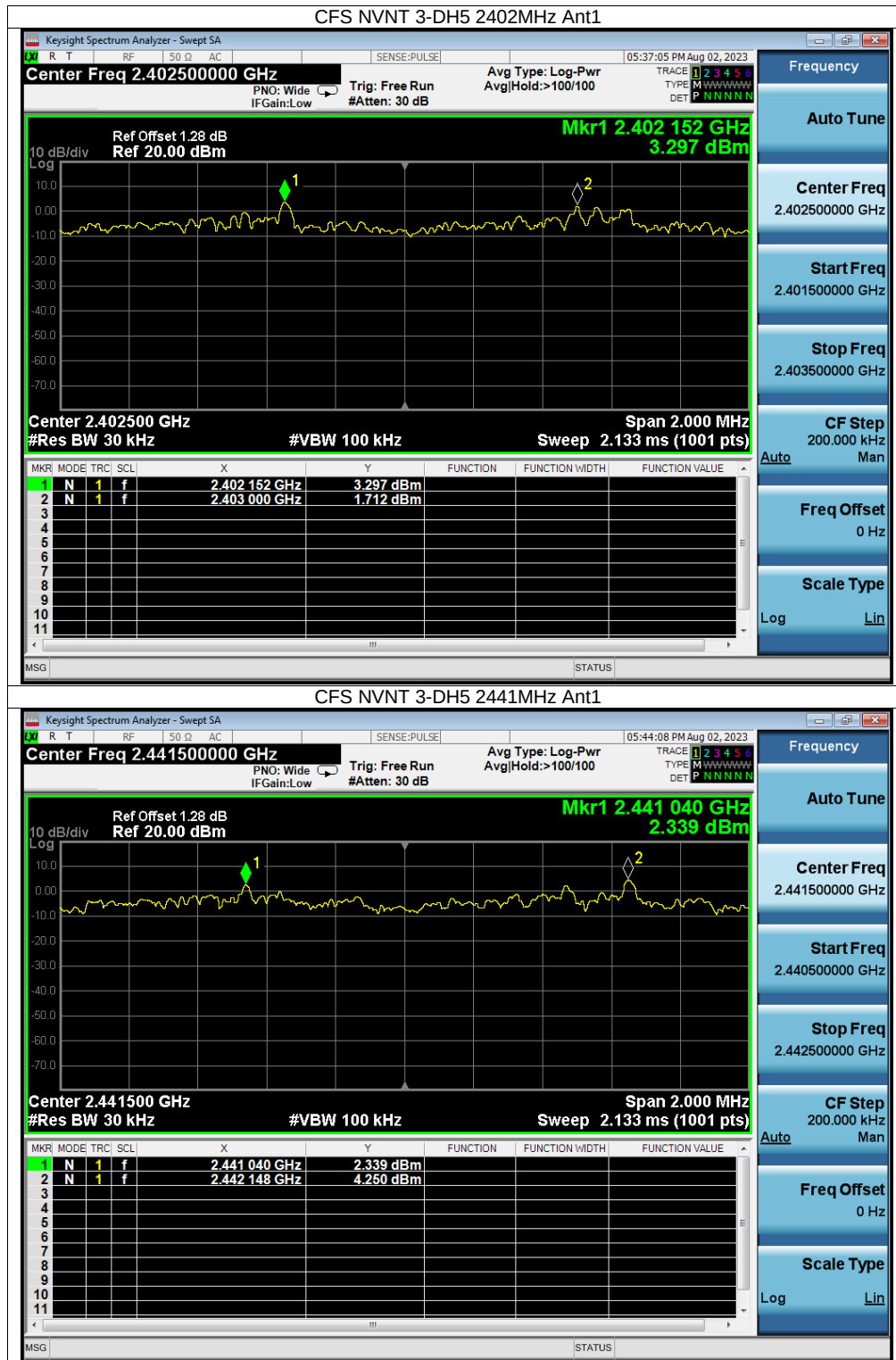
Appendix C Carrier Frequencies Separation

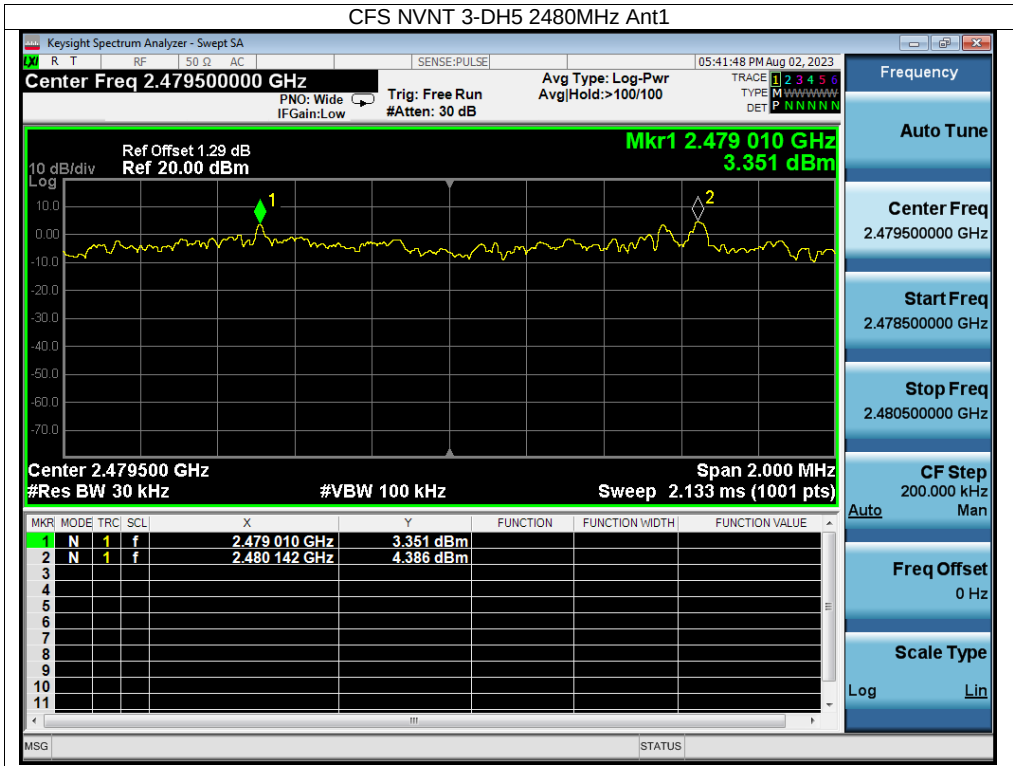
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.146	2403.004	0.858	0.629	Pass
NVNT	1-DH5	Ant1	2441.006	2441.986	0.98	0.631	Pass
NVNT	1-DH5	Ant1	2479.008	2479.962	0.954	0.63	Pass
NVNT	2-DH5	Ant1	2402.048	2402.984	0.936	0.835	Pass
NVNT	2-DH5	Ant1	2440.984	2442.002	1.018	0.857	Pass
NVNT	2-DH5	Ant1	2479.114	2480.006	0.892	0.859	Pass
NVNT	3-DH5	Ant1	2402.152	2403	0.848	0.839	Pass
NVNT	3-DH5	Ant1	2441.04	2442.148	1.108	0.868	Pass
NVNT	3-DH5	Ant1	2479.01	2480.142	1.132	0.855	Pass





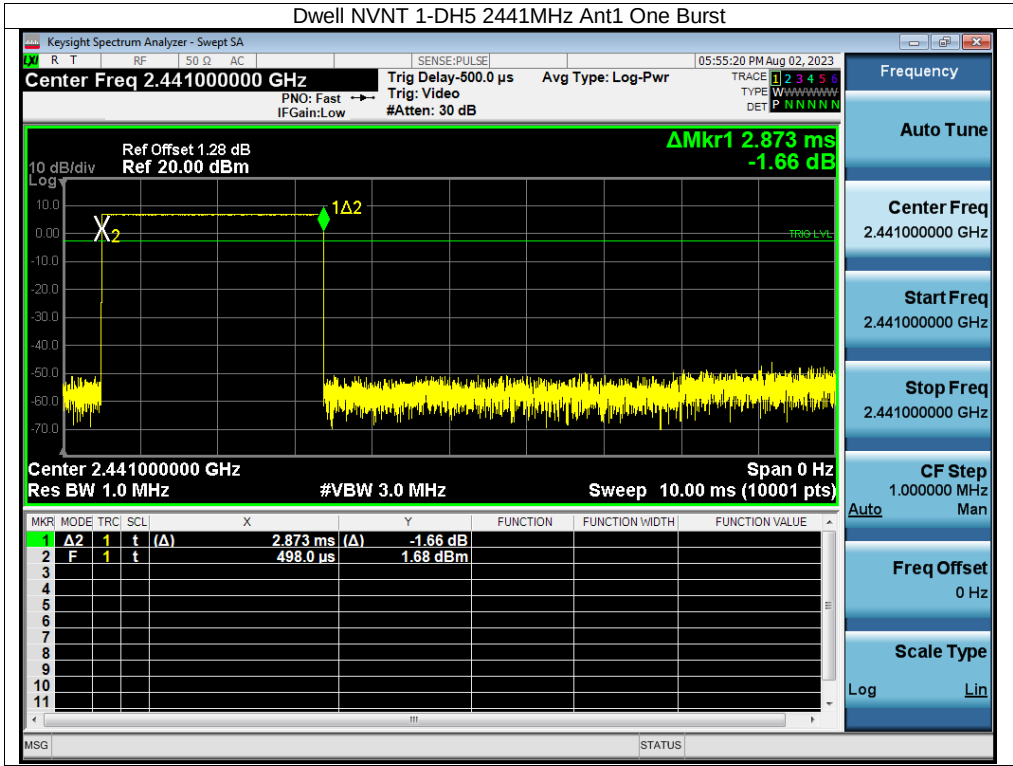
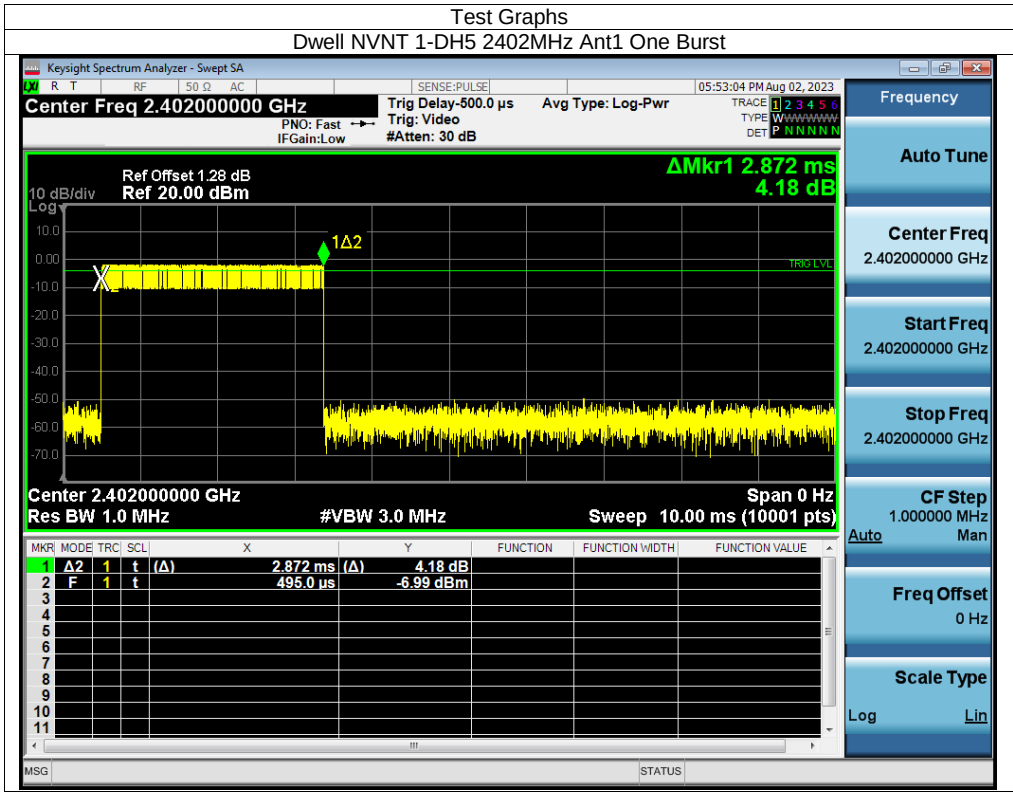


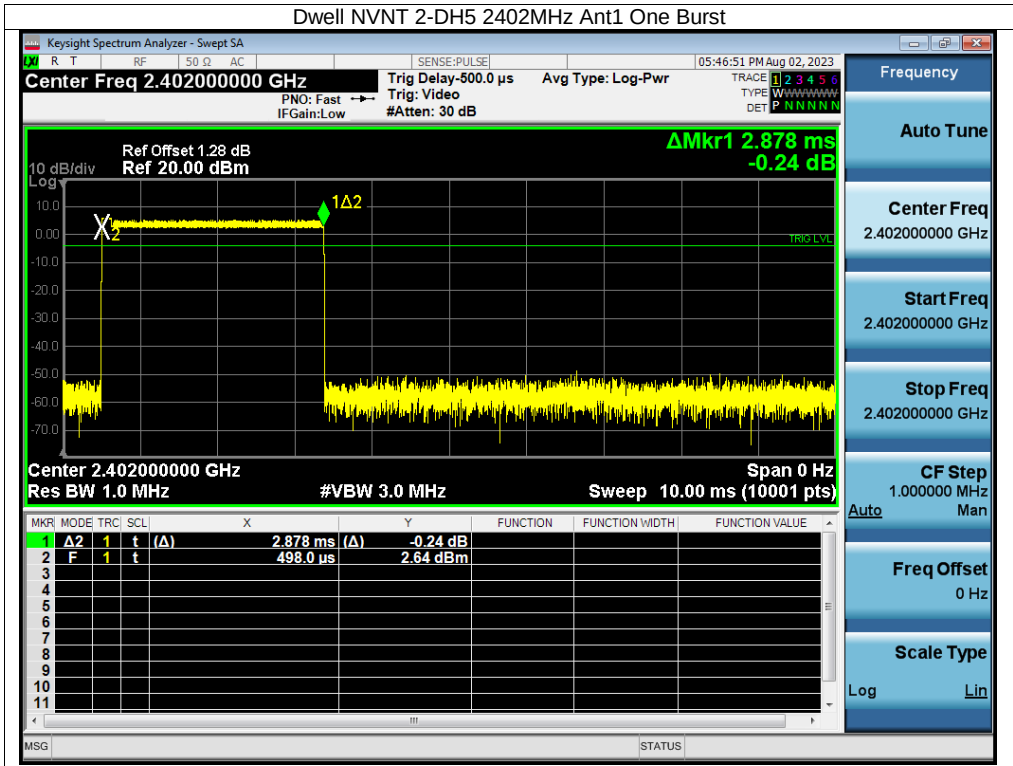
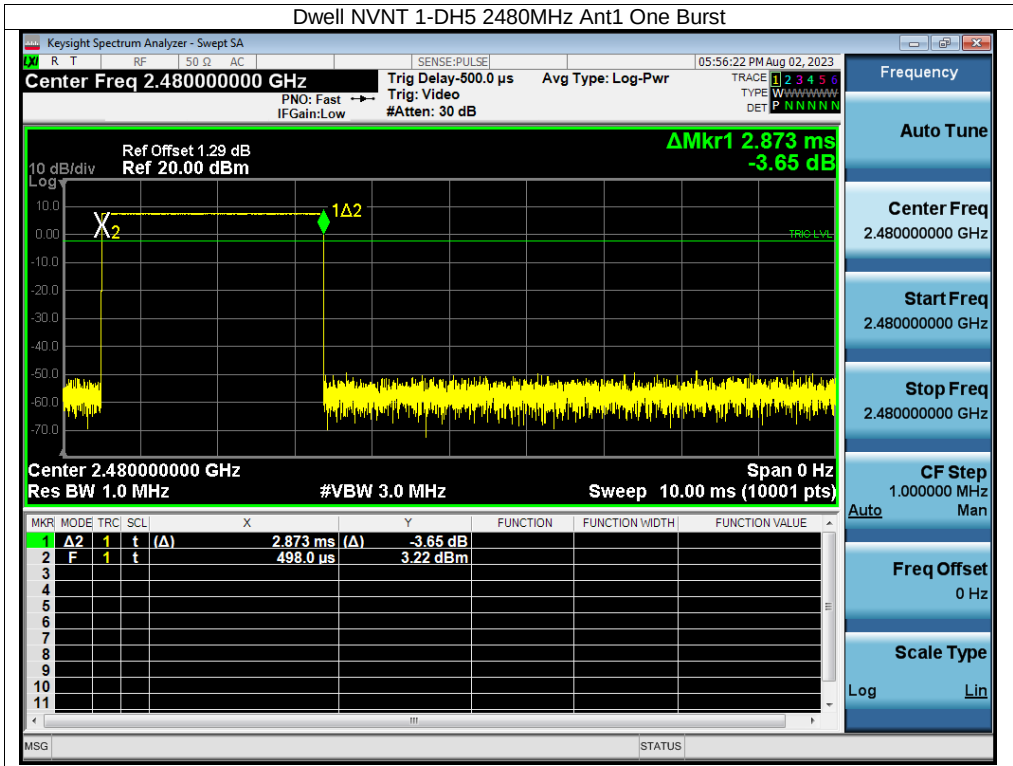


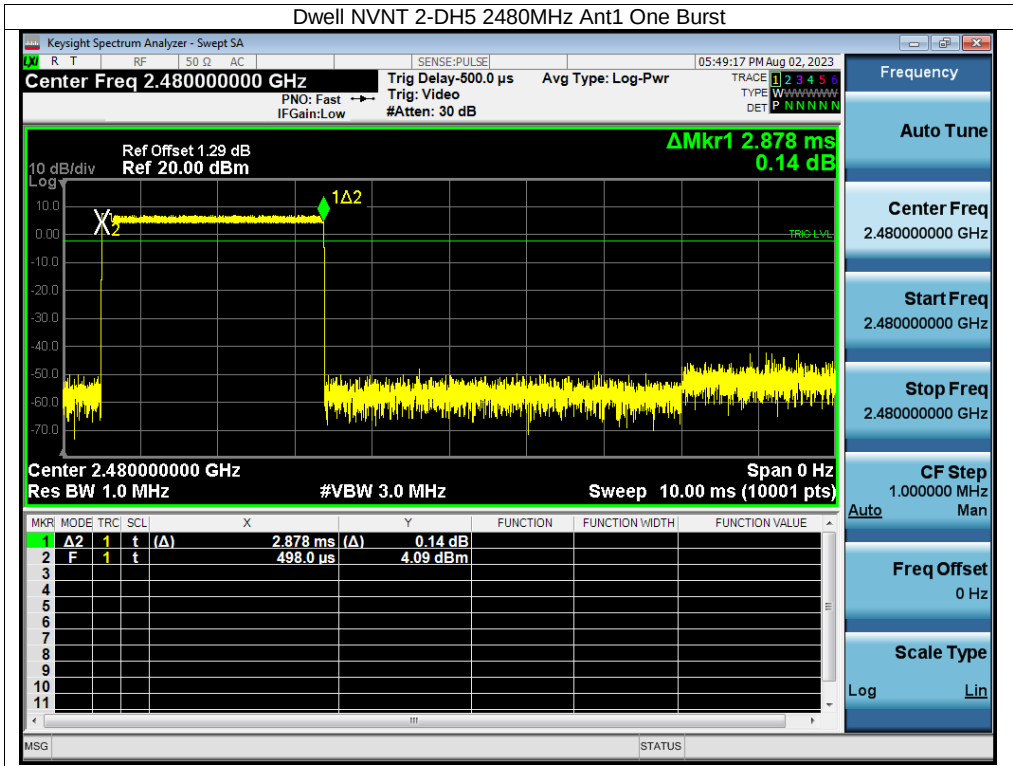
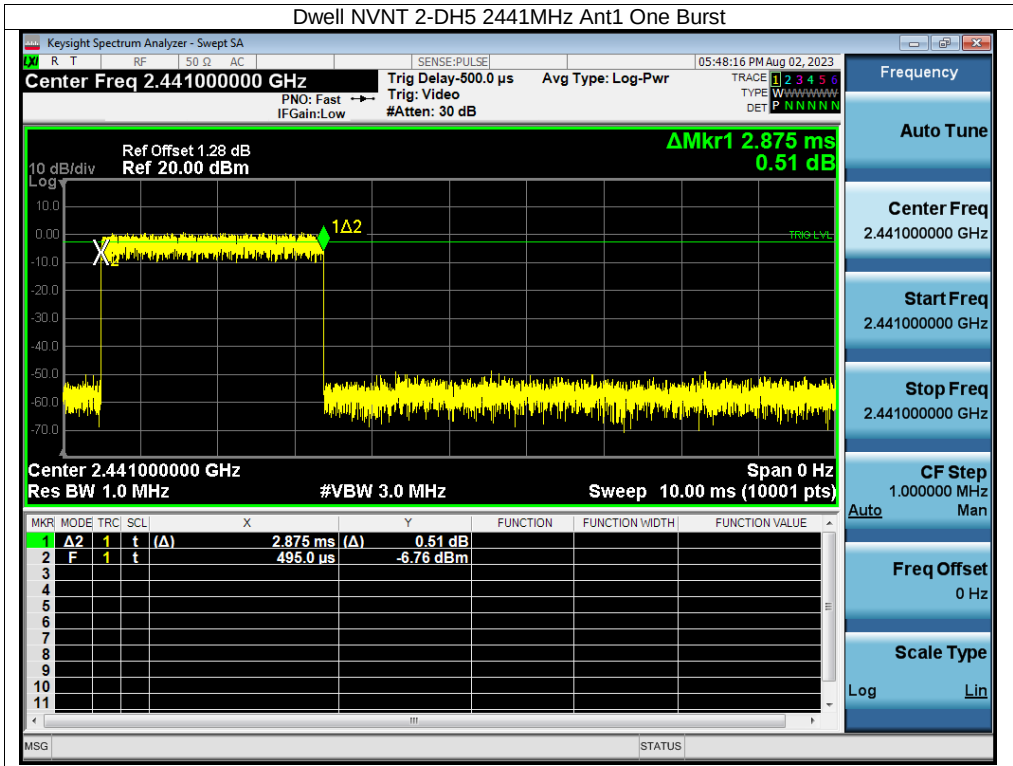


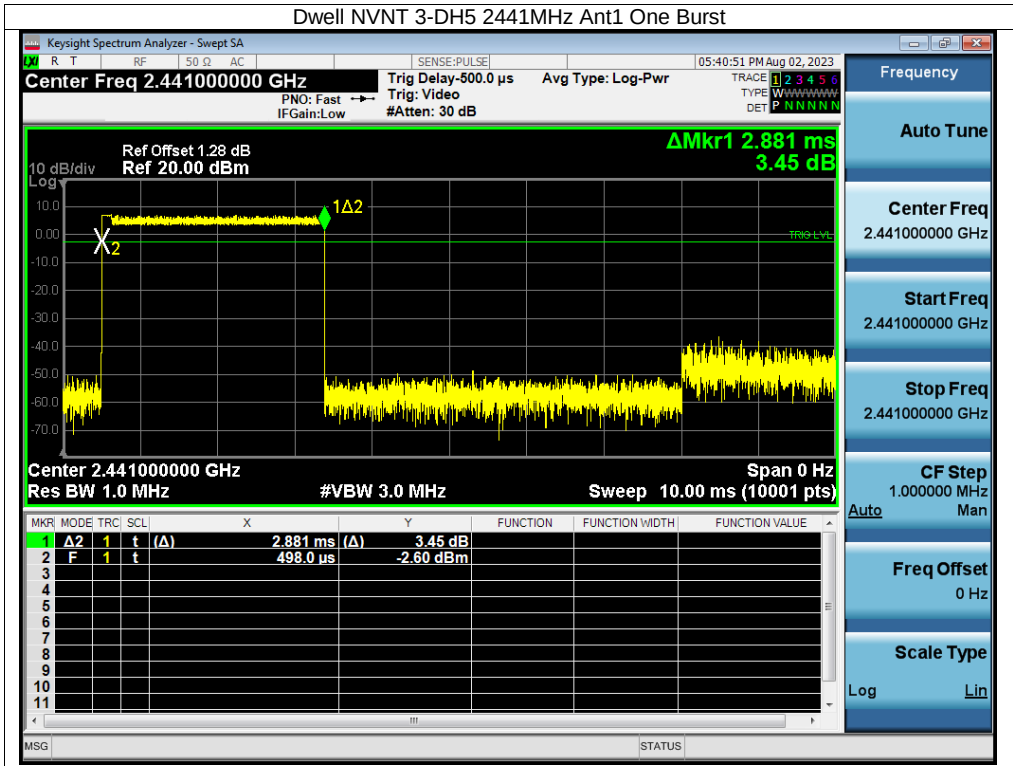
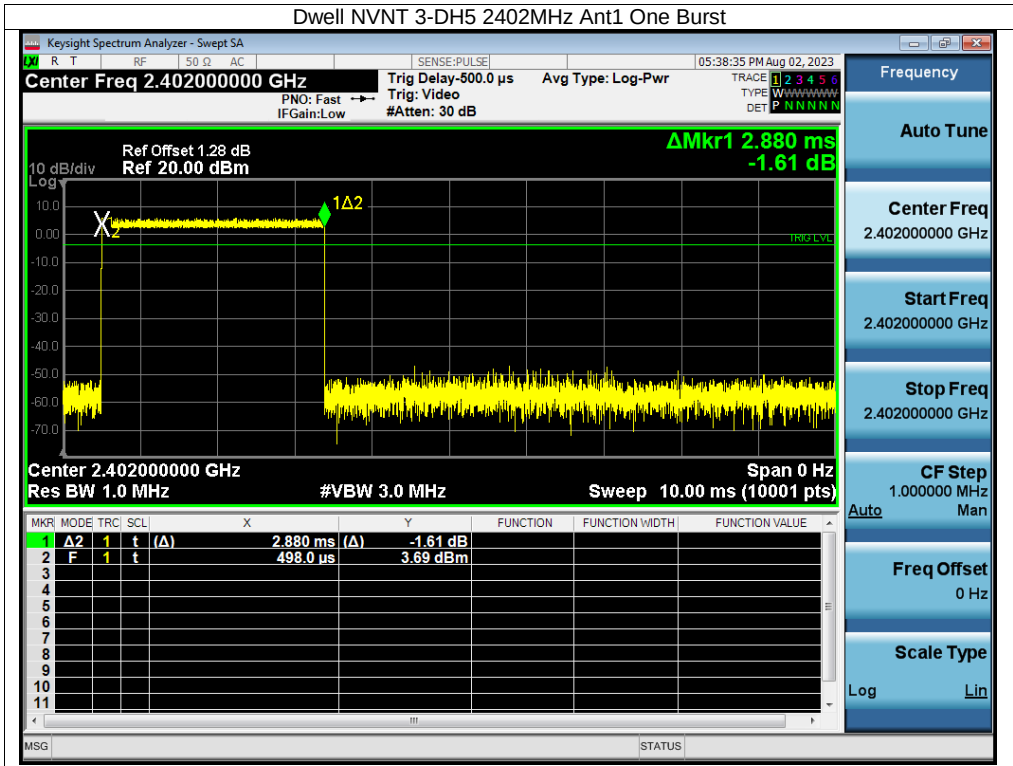
Appendix D Dwell Time

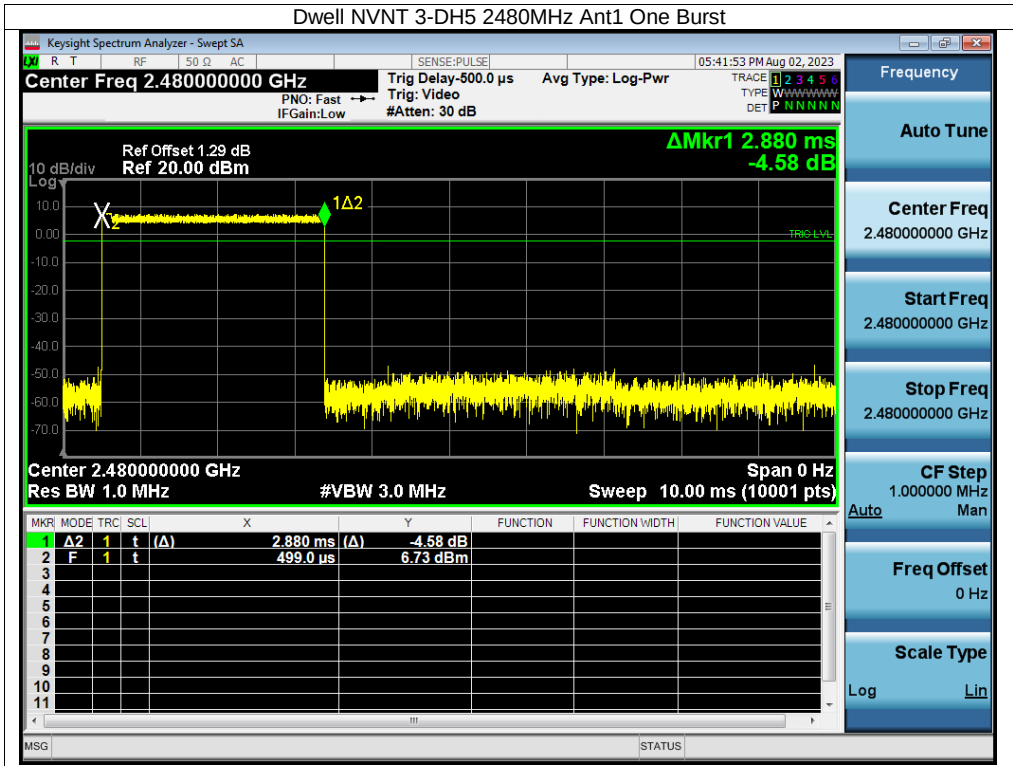
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.872	306.35	400	Pass
NVNT	1-DH5	2441	Ant1	2.873	306.45	400	Pass
NVNT	1-DH5	2480	Ant1	2.873	306.45	400	Pass
NVNT	2-DH5	2402	Ant1	2.878	306.99	400	Pass
NVNT	2-DH5	2441	Ant1	2.875	306.67	400	Pass
NVNT	2-DH5	2480	Ant1	2.878	306.99	400	Pass
NVNT	3-DH5	2402	Ant1	2.88	307.20	400	Pass
NVNT	3-DH5	2441	Ant1	2.881	307.31	400	Pass
NVNT	3-DH5	2480	Ant1	2.88	307.20	400	Pass





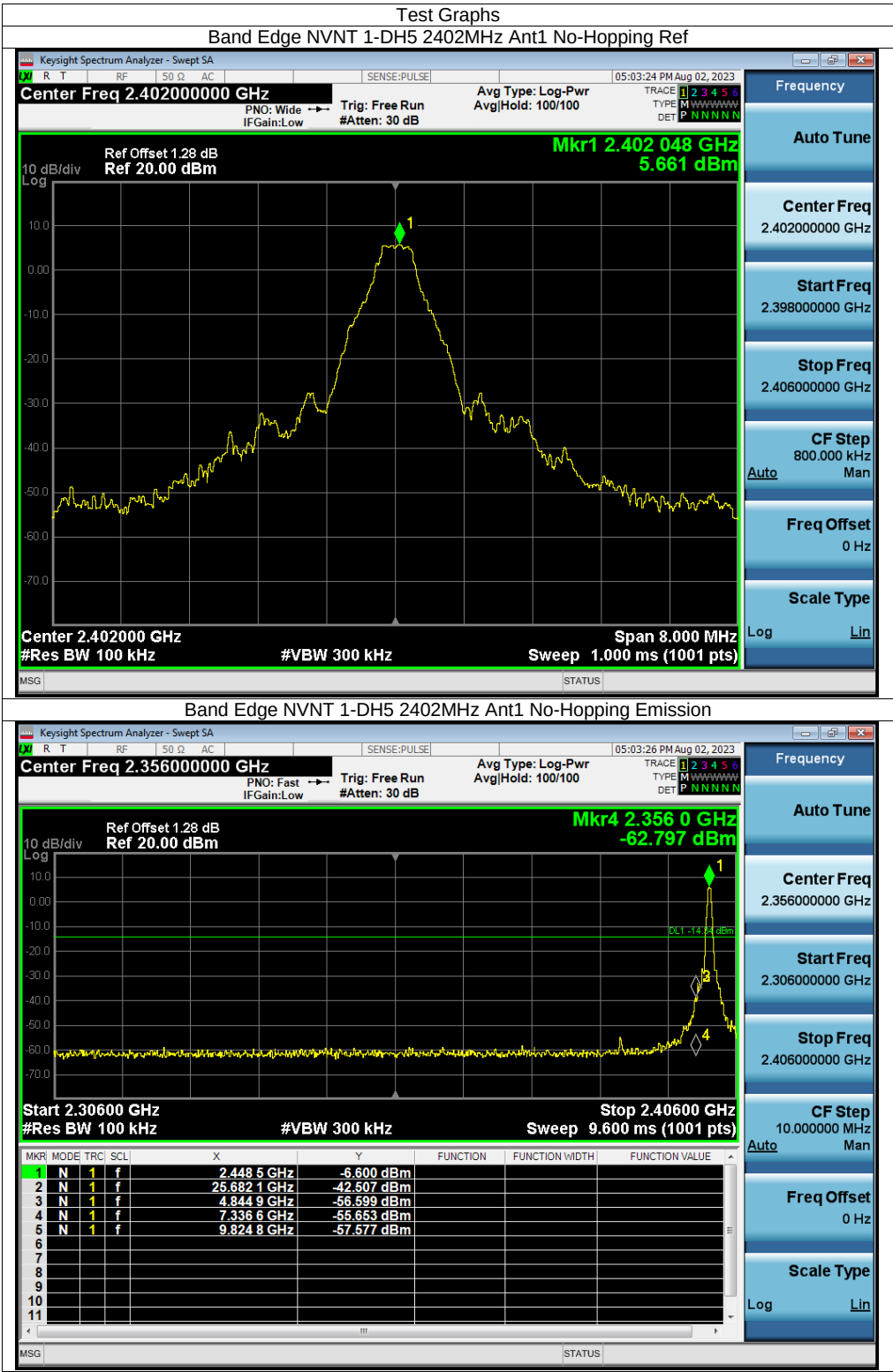


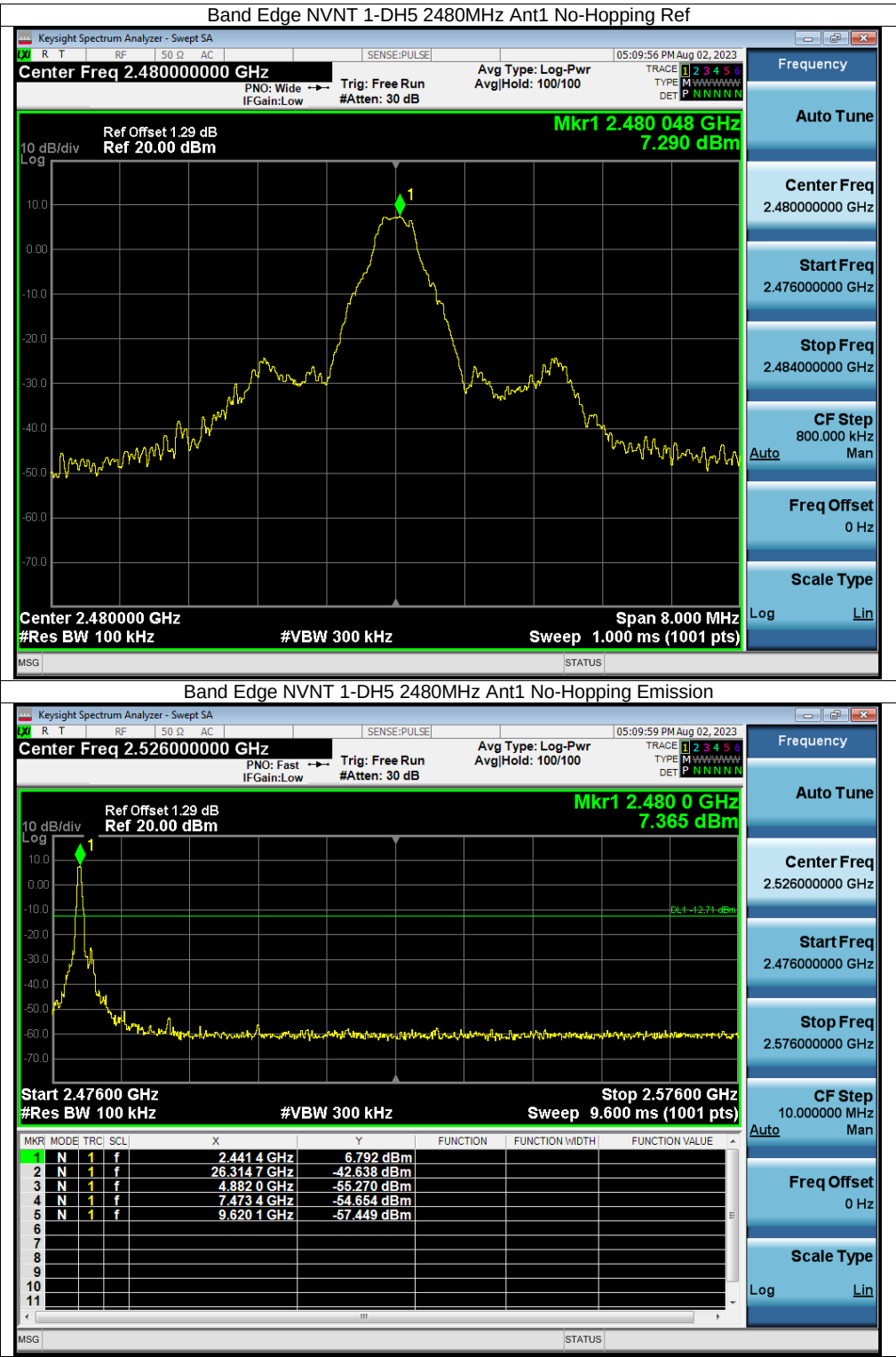


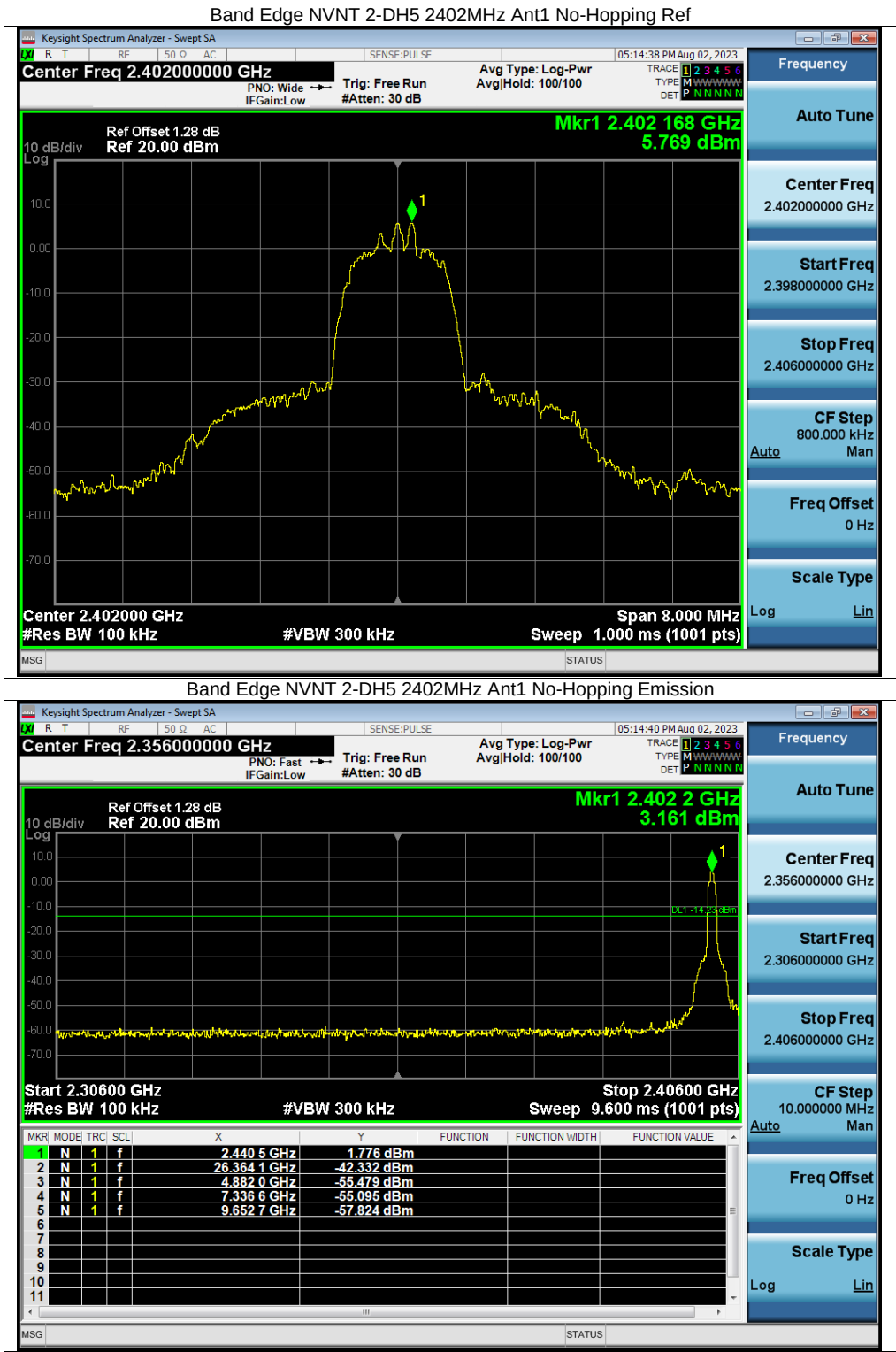


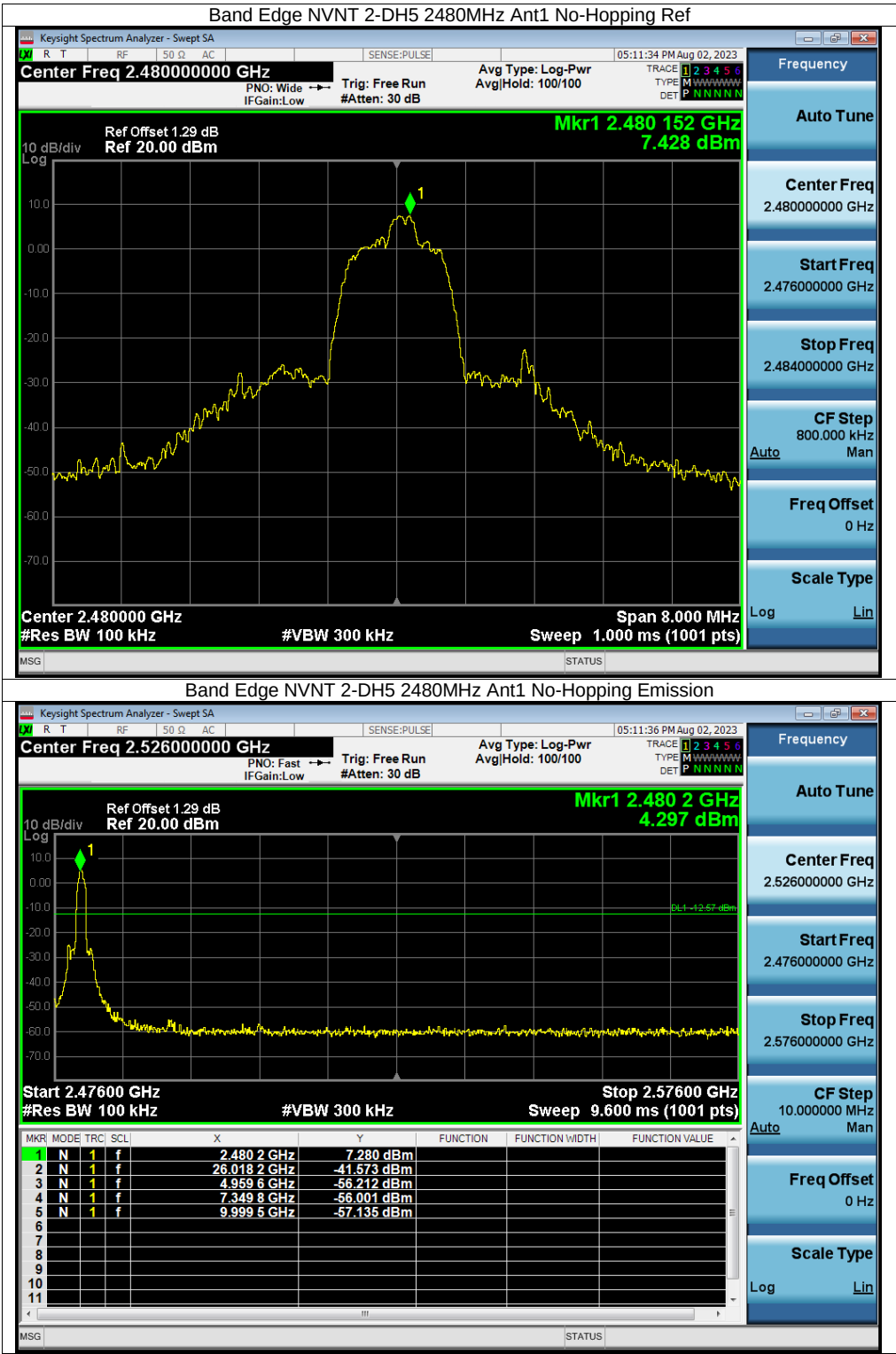
Appendix E Band Edge

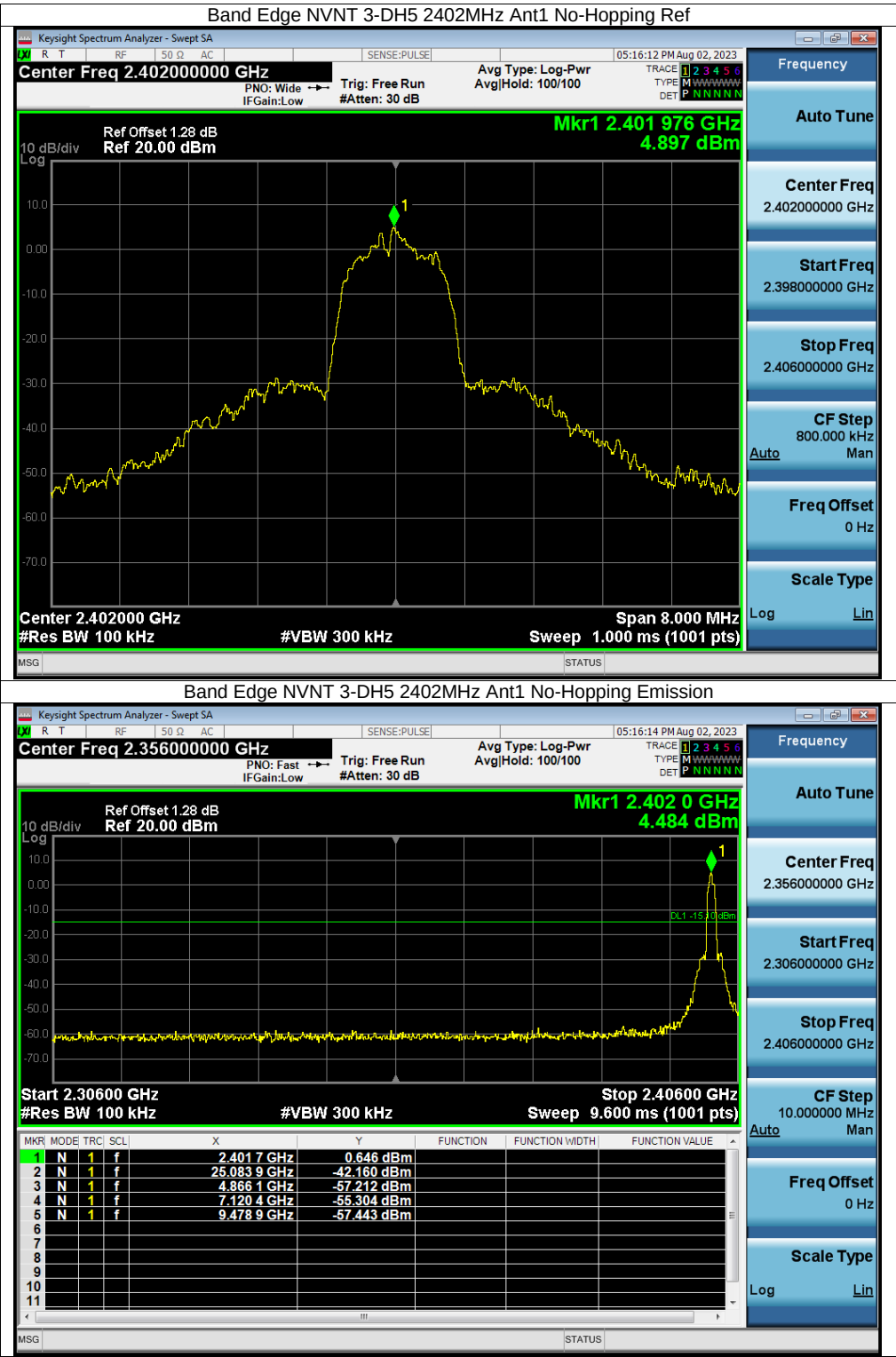
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-44.67	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-51.76	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-42.29	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.01	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-39.51	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-53.69	-20	Pass

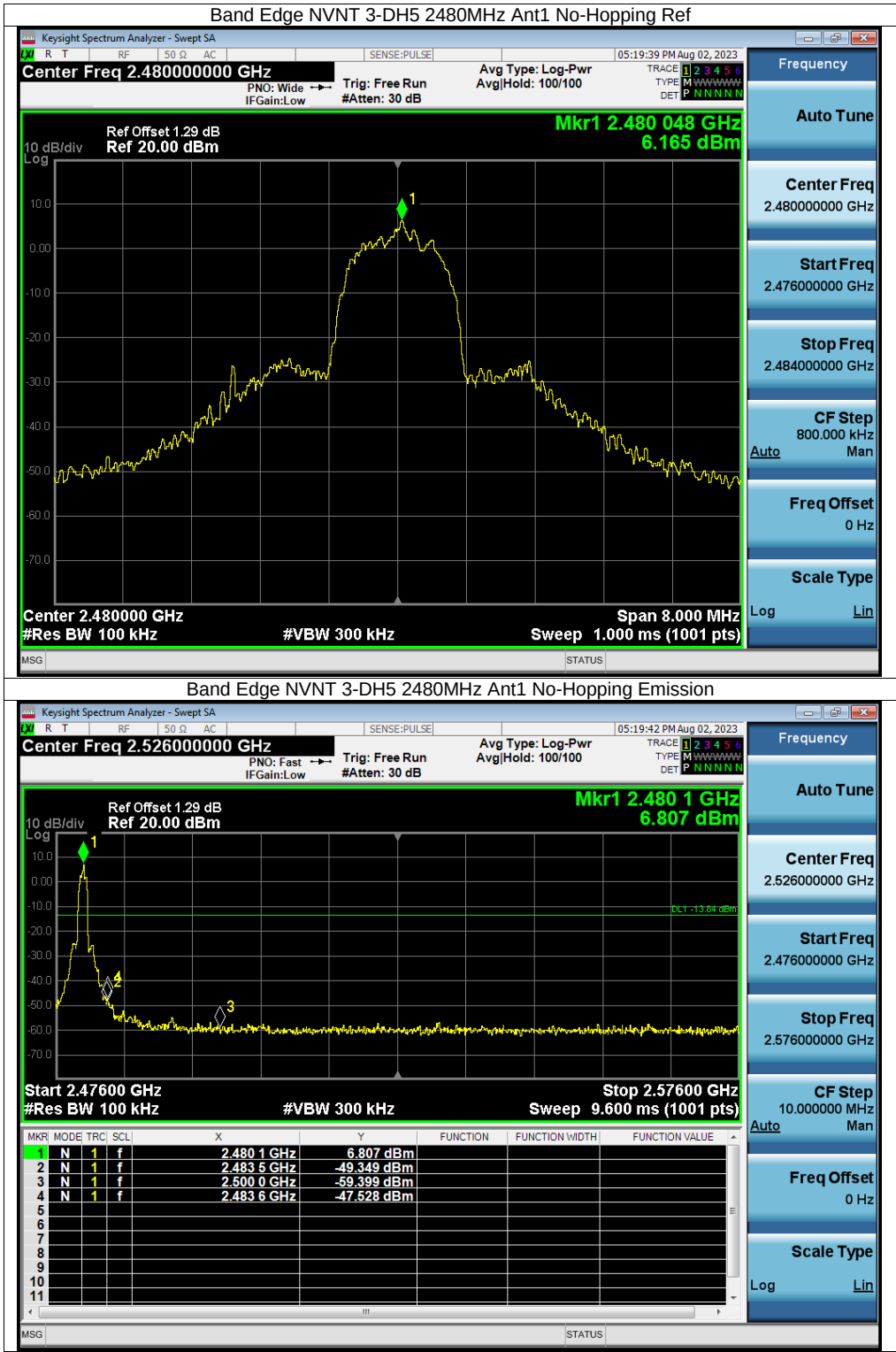






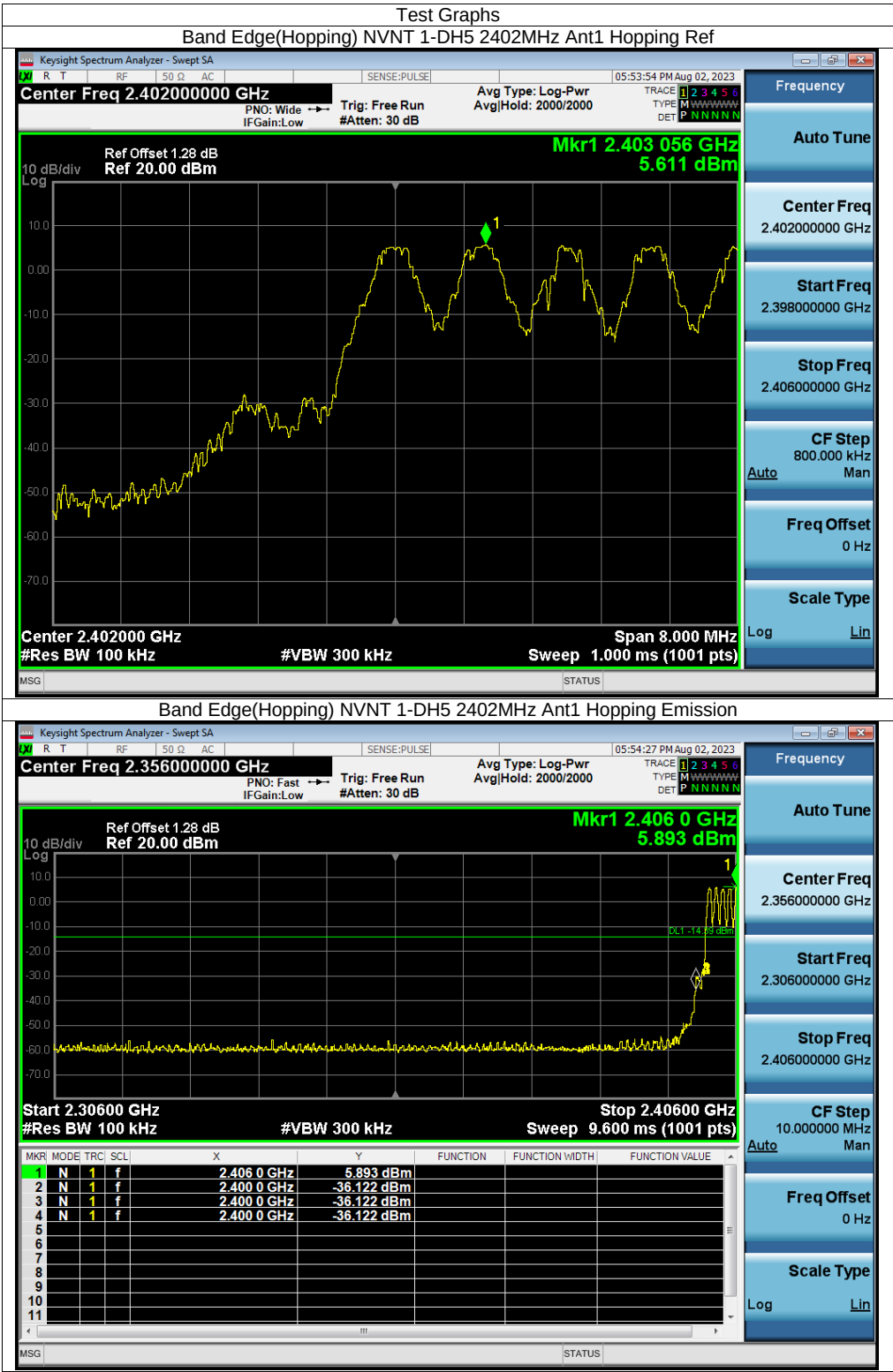


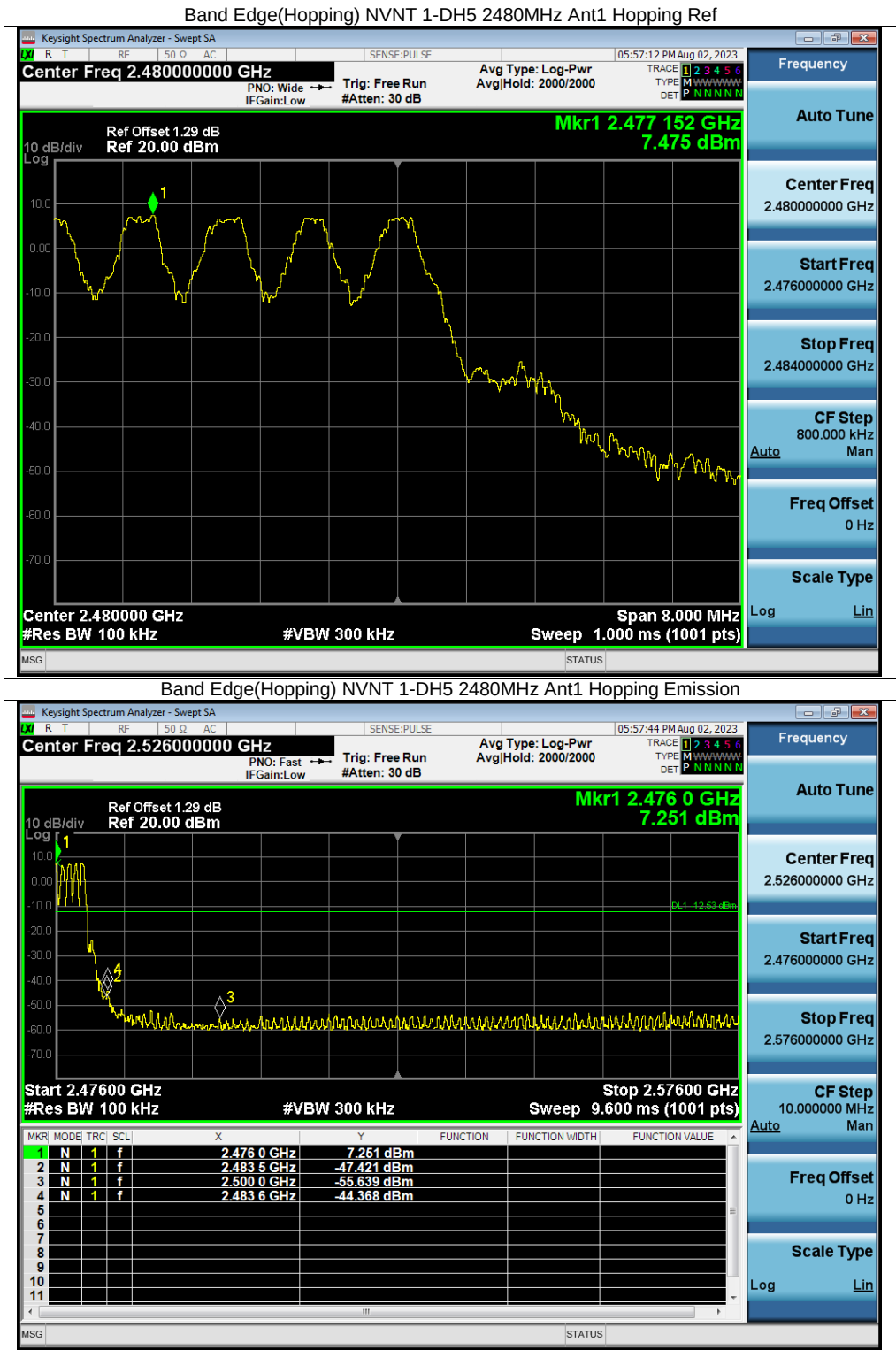


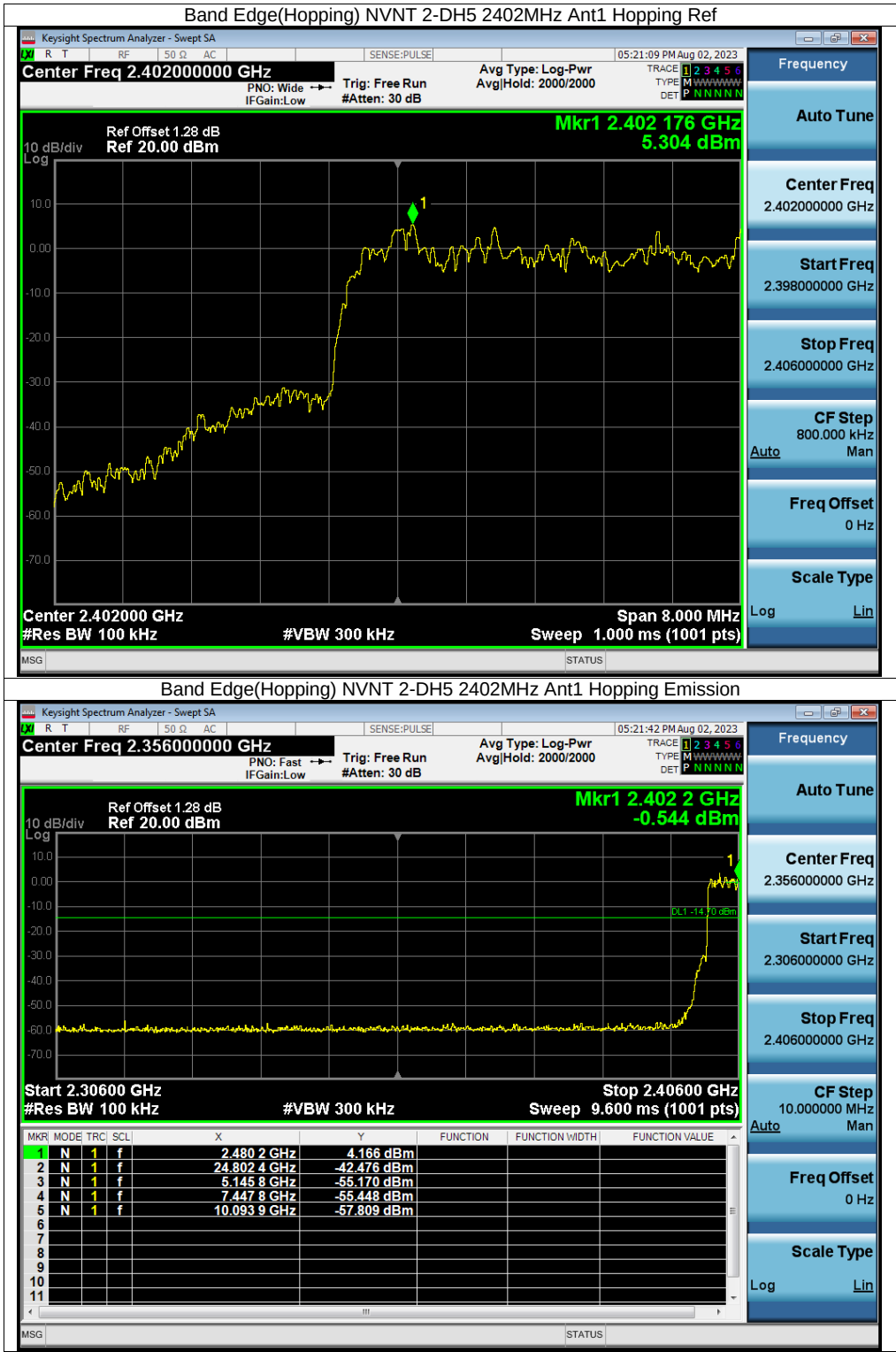


Appendix F Band Edge(Hopping)

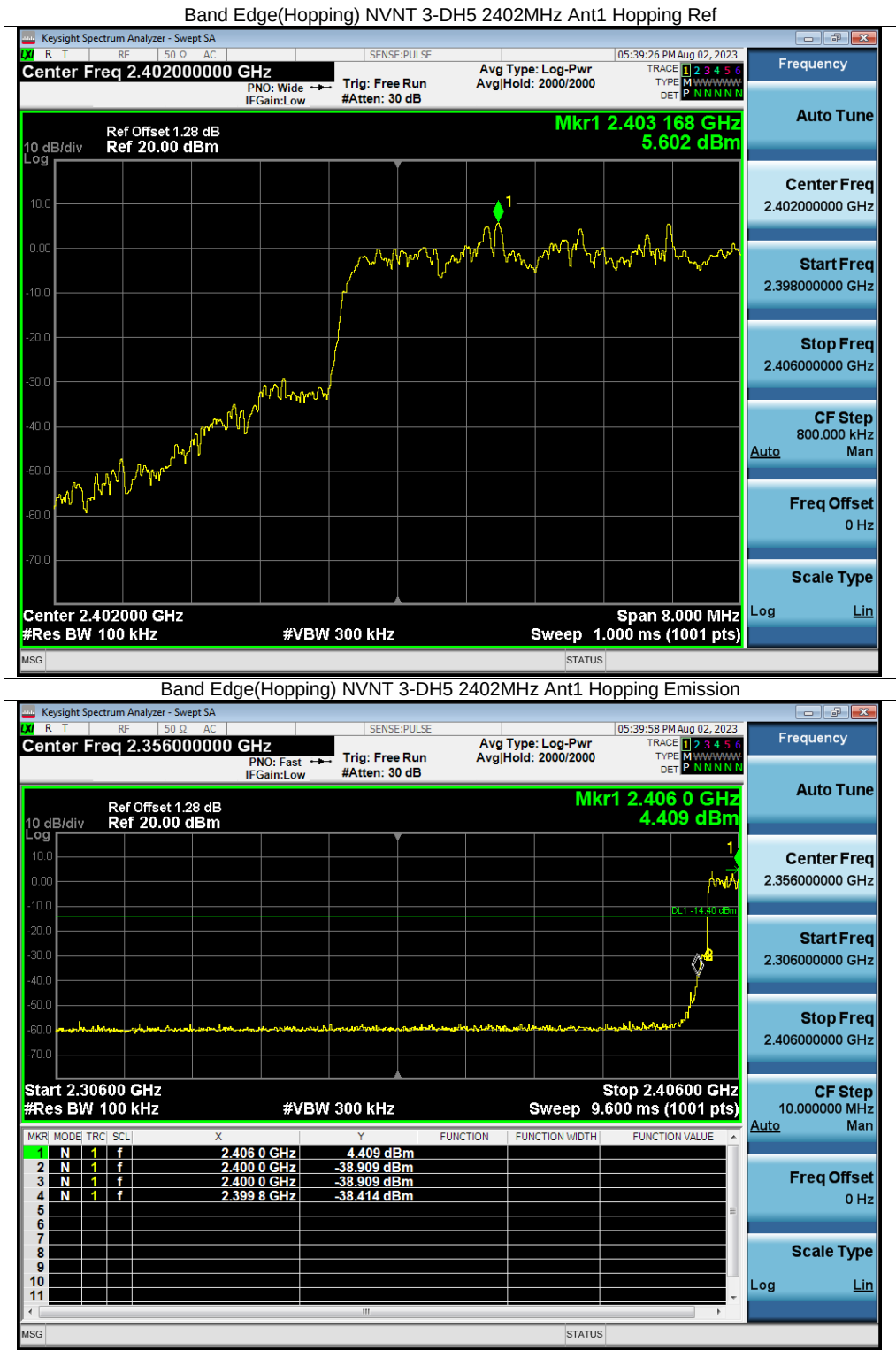
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-41.73	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-51.84	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-41.22	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-51.81	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-44.01	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-54.46	-20	Pass







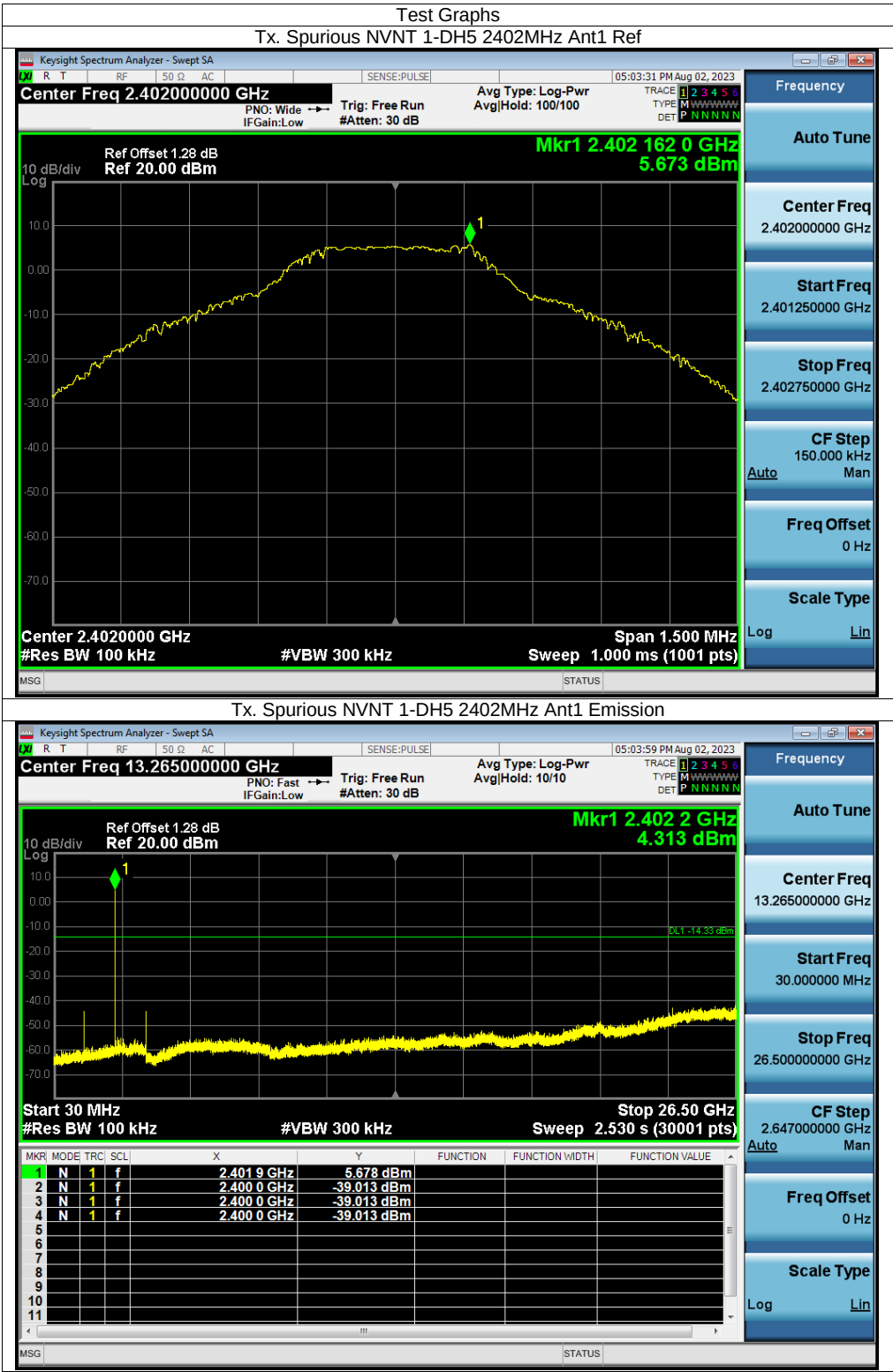


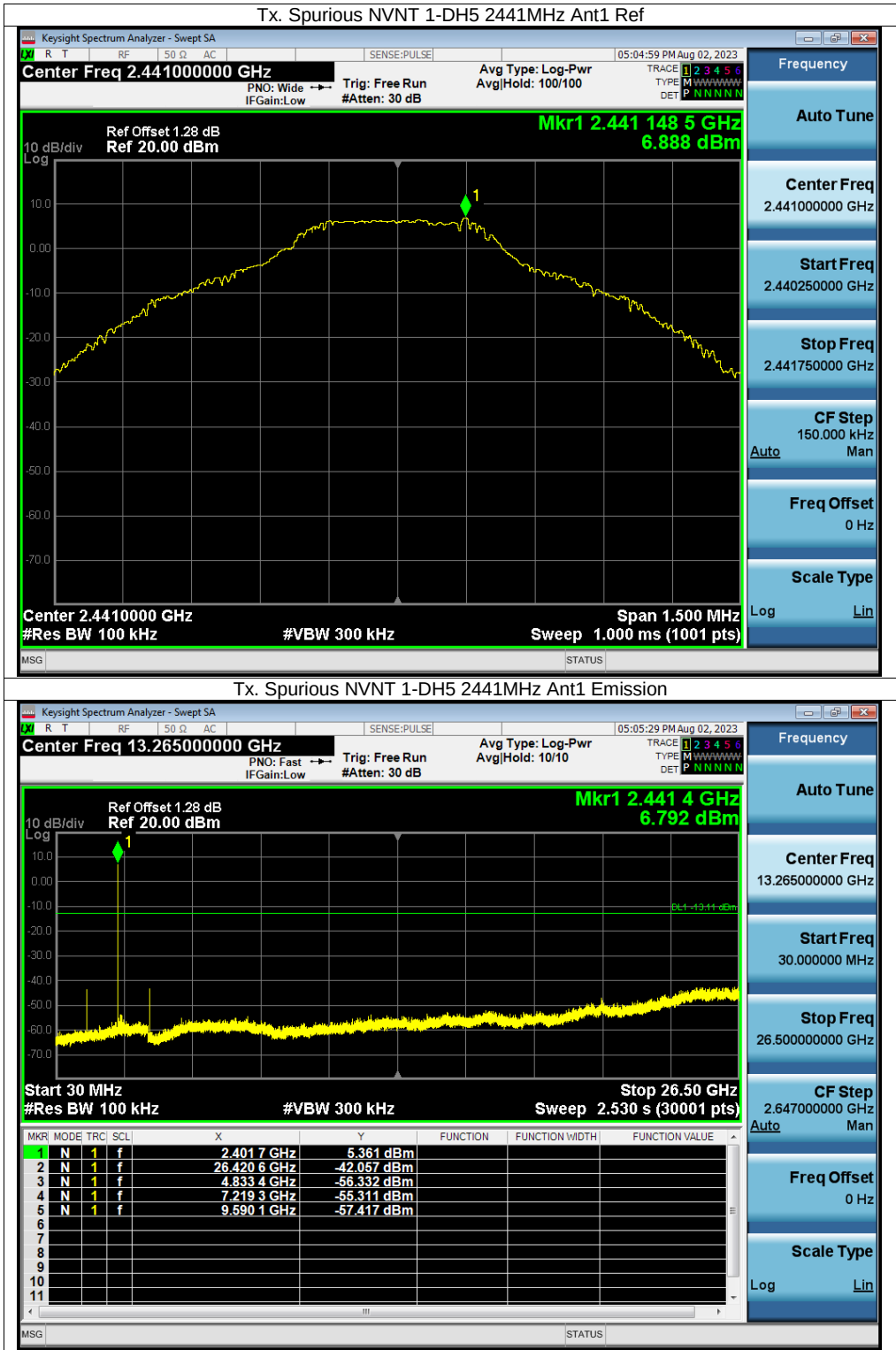


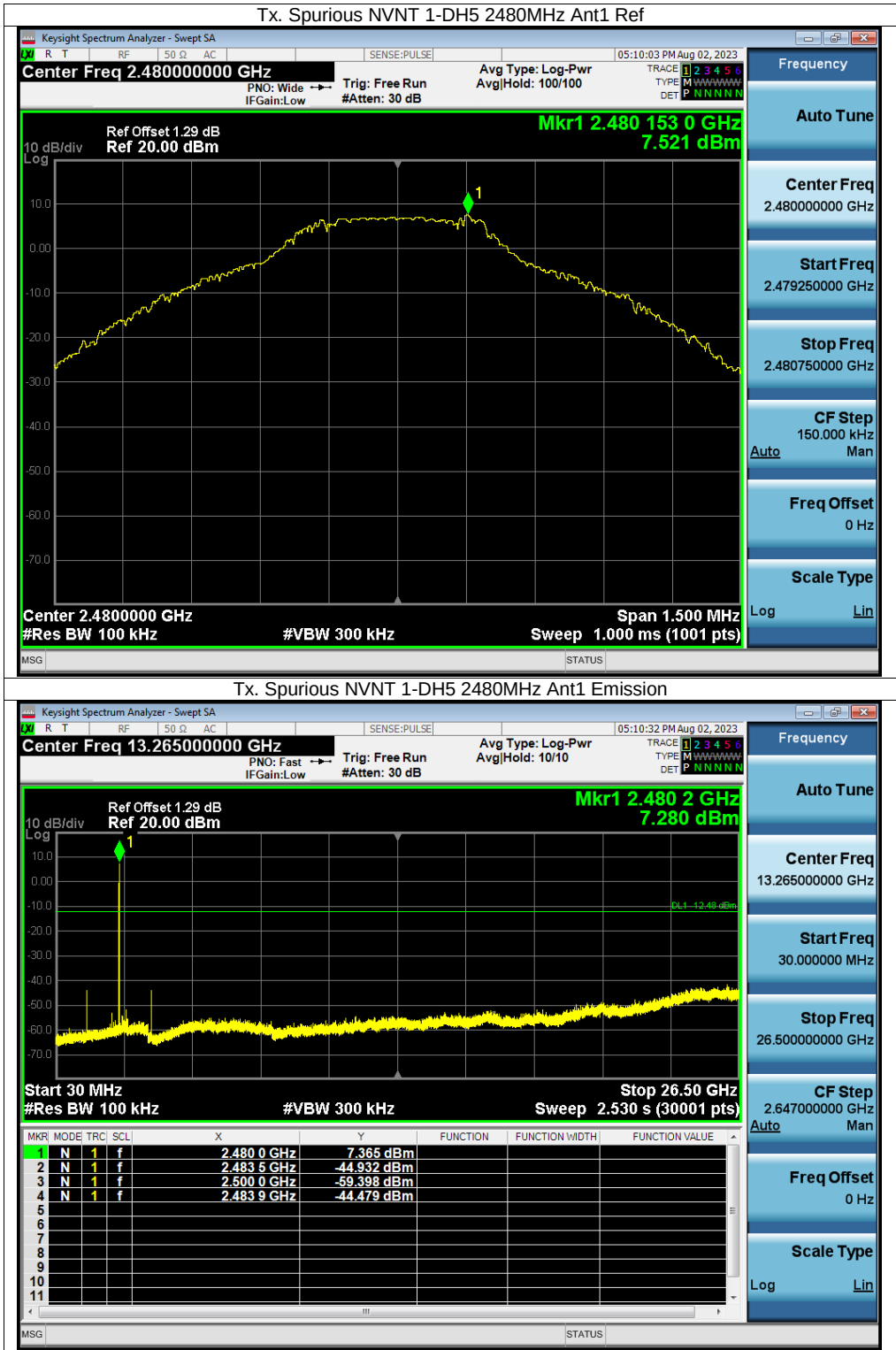


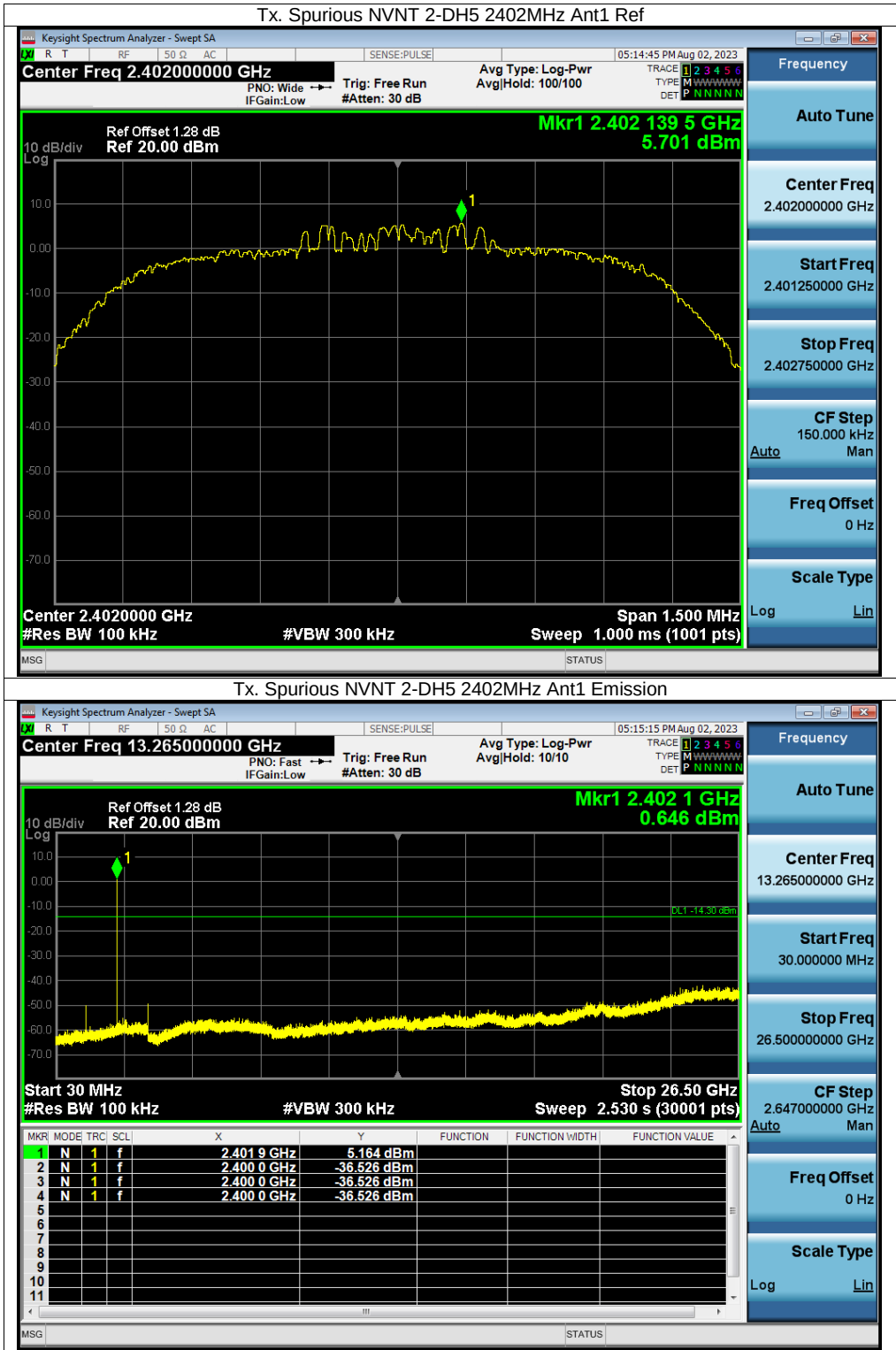
Appendix G Conducted RF Spurious Emission

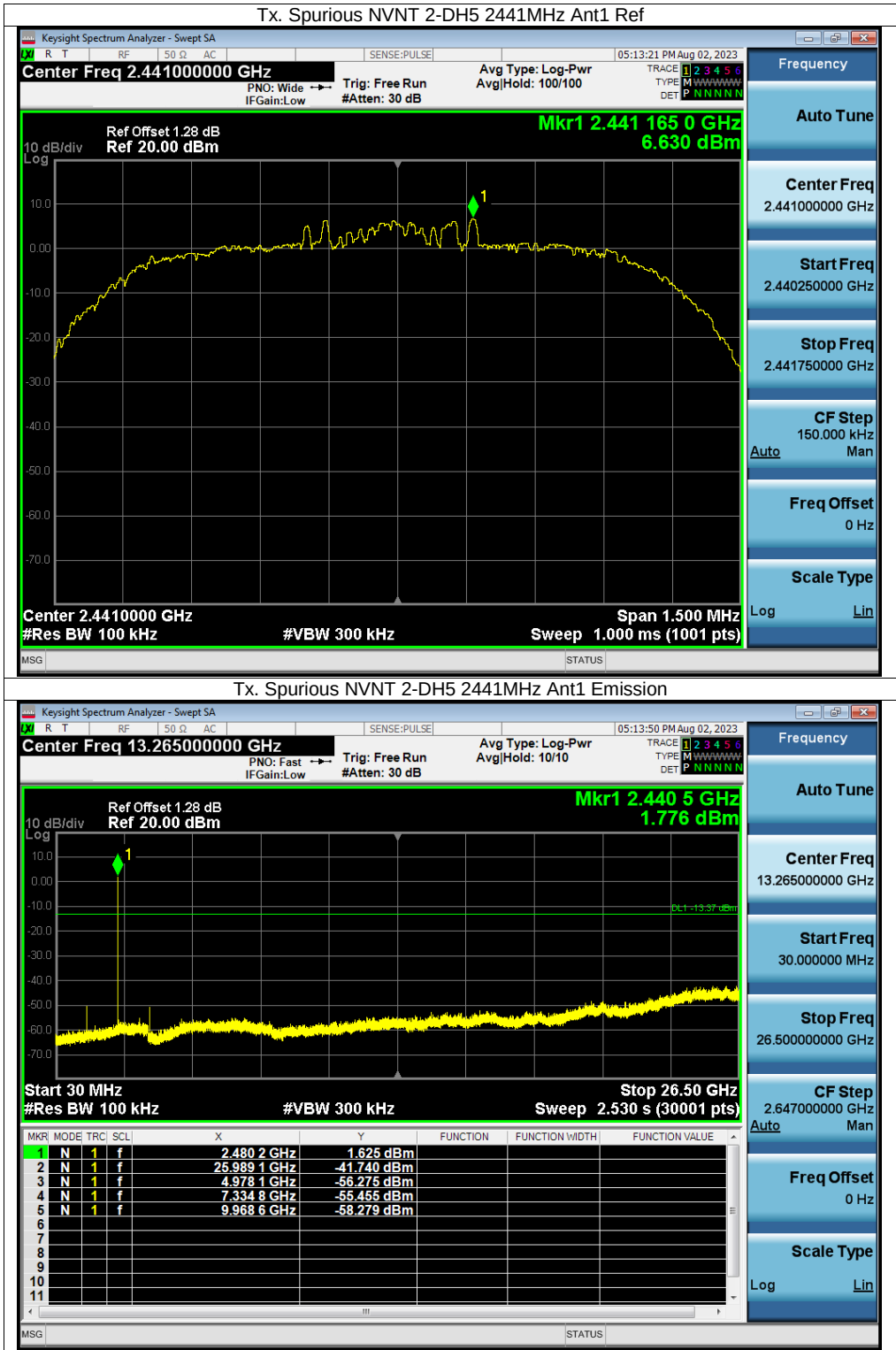
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-47.72	-20	Pass
NVNT	1-DH5	2441	Ant1	-49.52	-20	Pass
NVNT	1-DH5	2480	Ant1	-49.09	-20	Pass
NVNT	2-DH5	2402	Ant1	-47.86	-20	Pass
NVNT	2-DH5	2441	Ant1	-48.96	-20	Pass
NVNT	2-DH5	2480	Ant1	-49.3	-20	Pass
NVNT	3-DH5	2402	Ant1	-47.29	-20	Pass
NVNT	3-DH5	2441	Ant1	-47.63	-20	Pass
NVNT	3-DH5	2480	Ant1	-49.93	-20	Pass

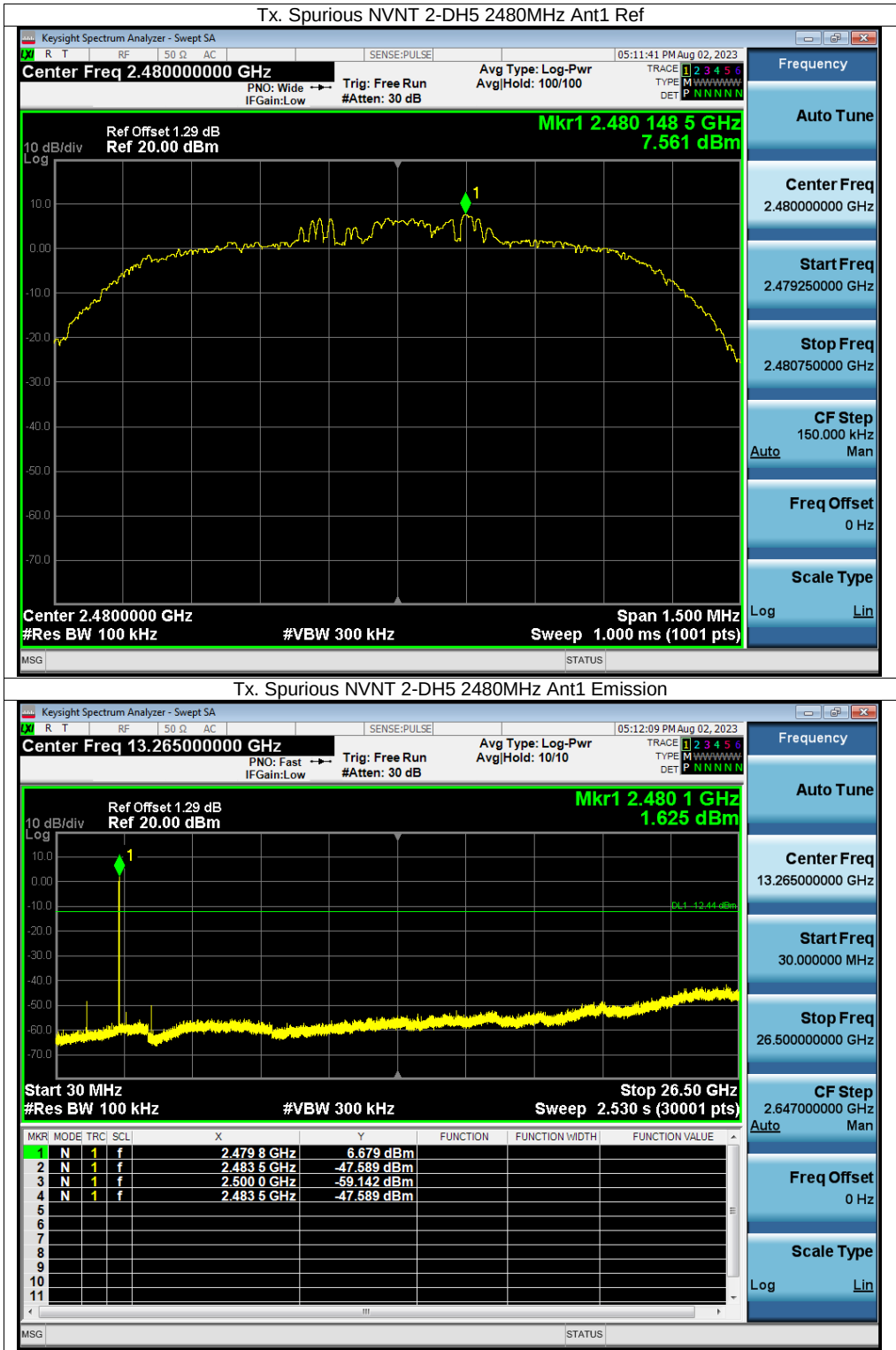


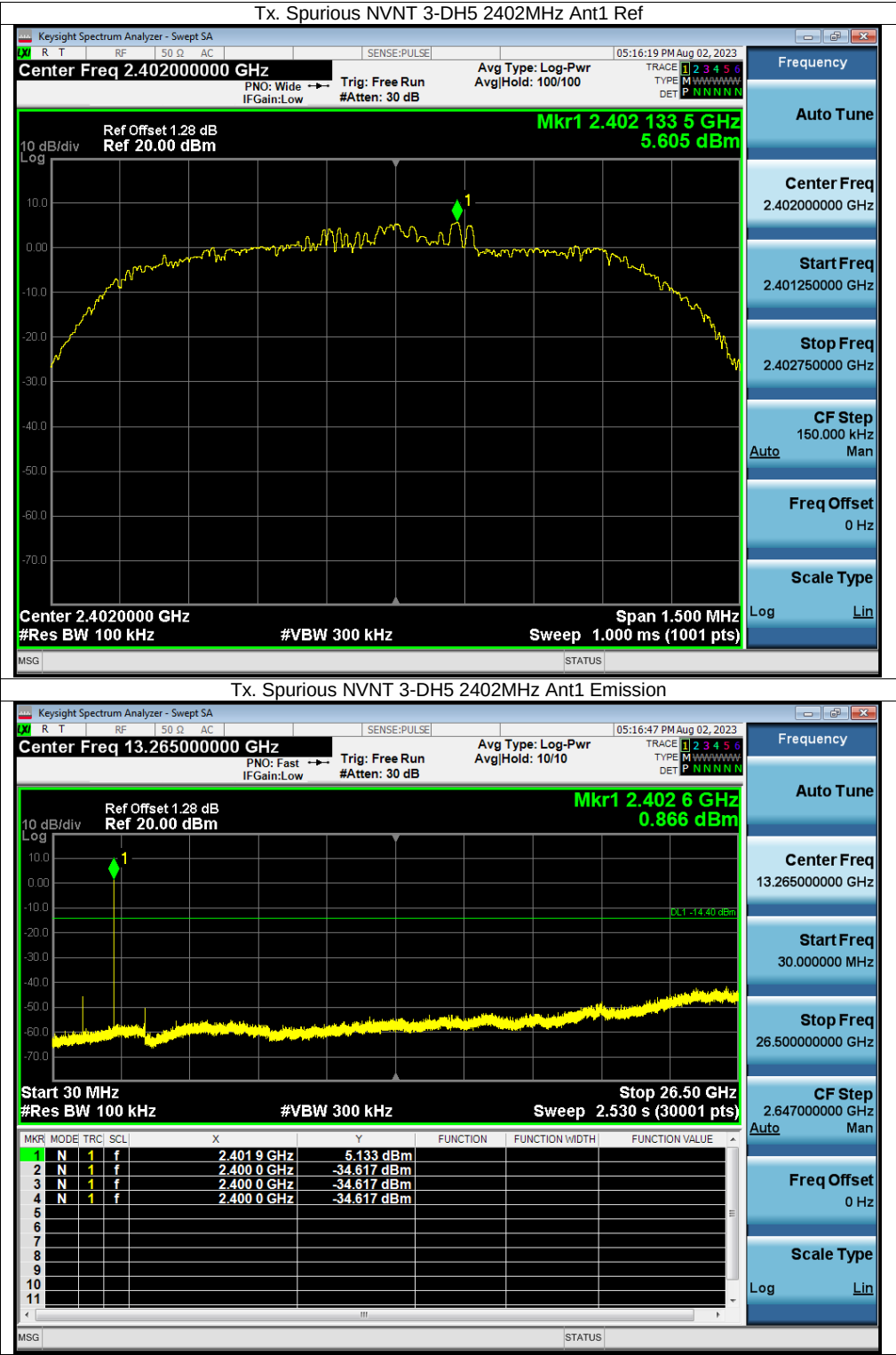


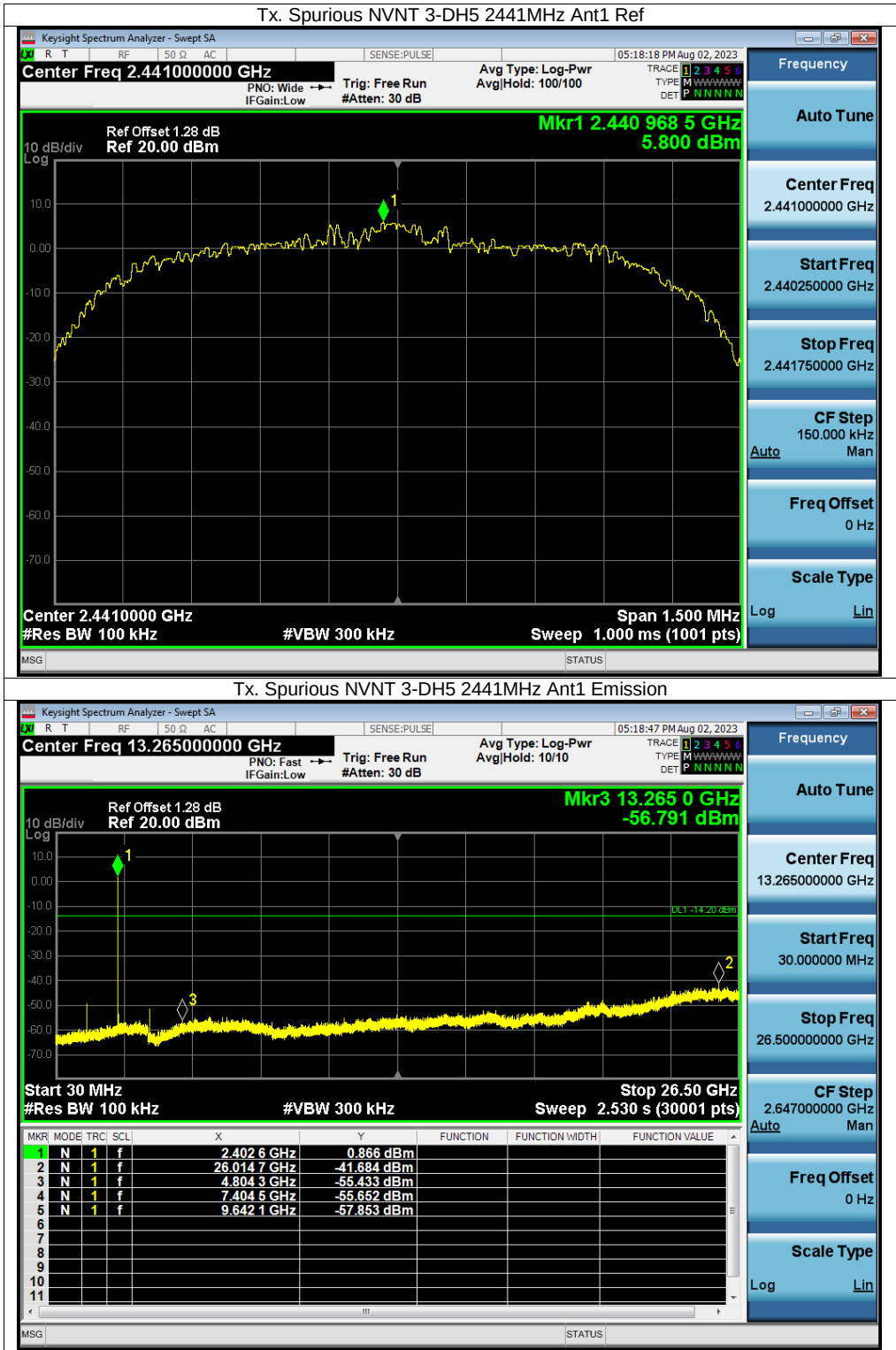


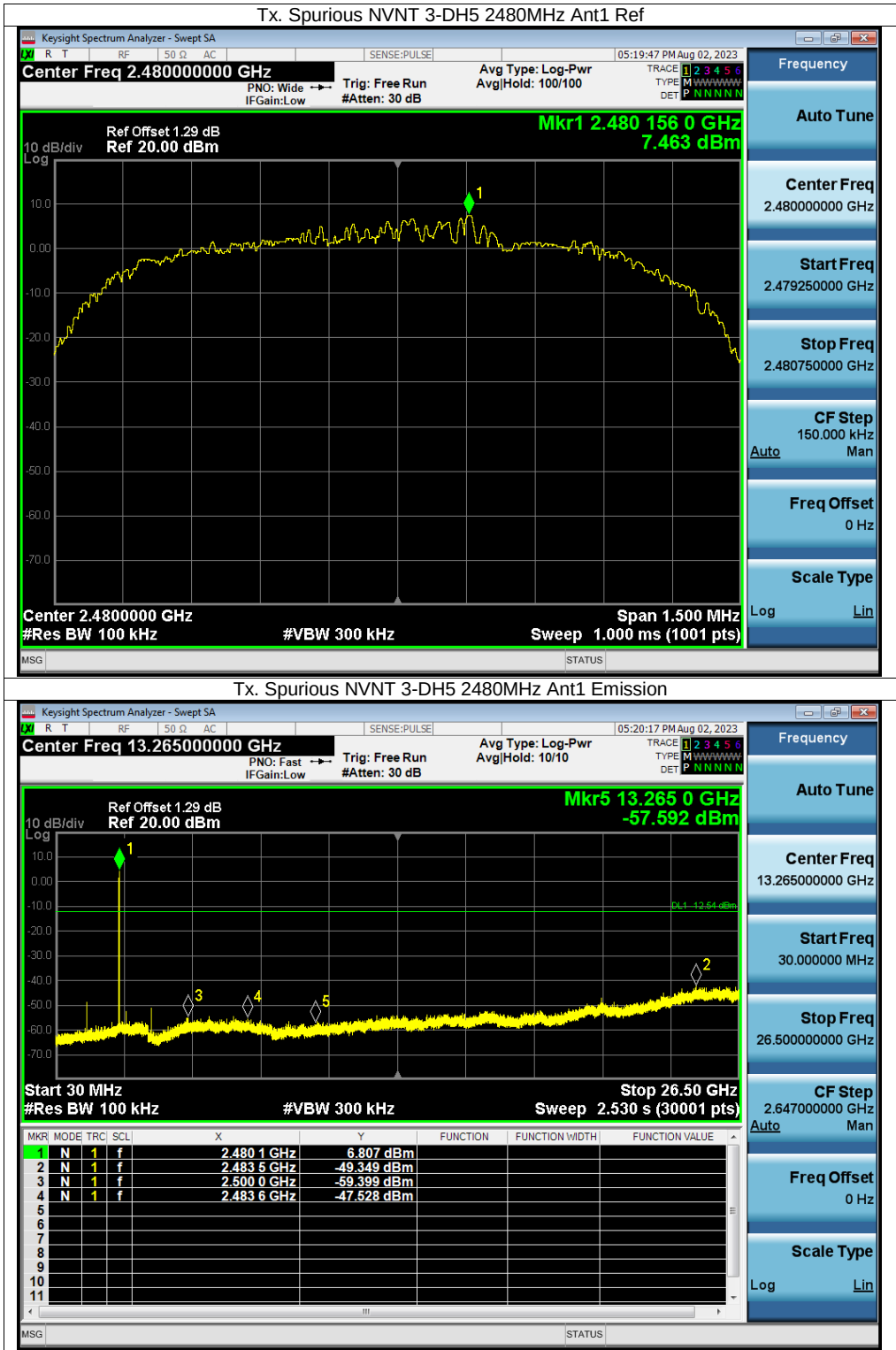






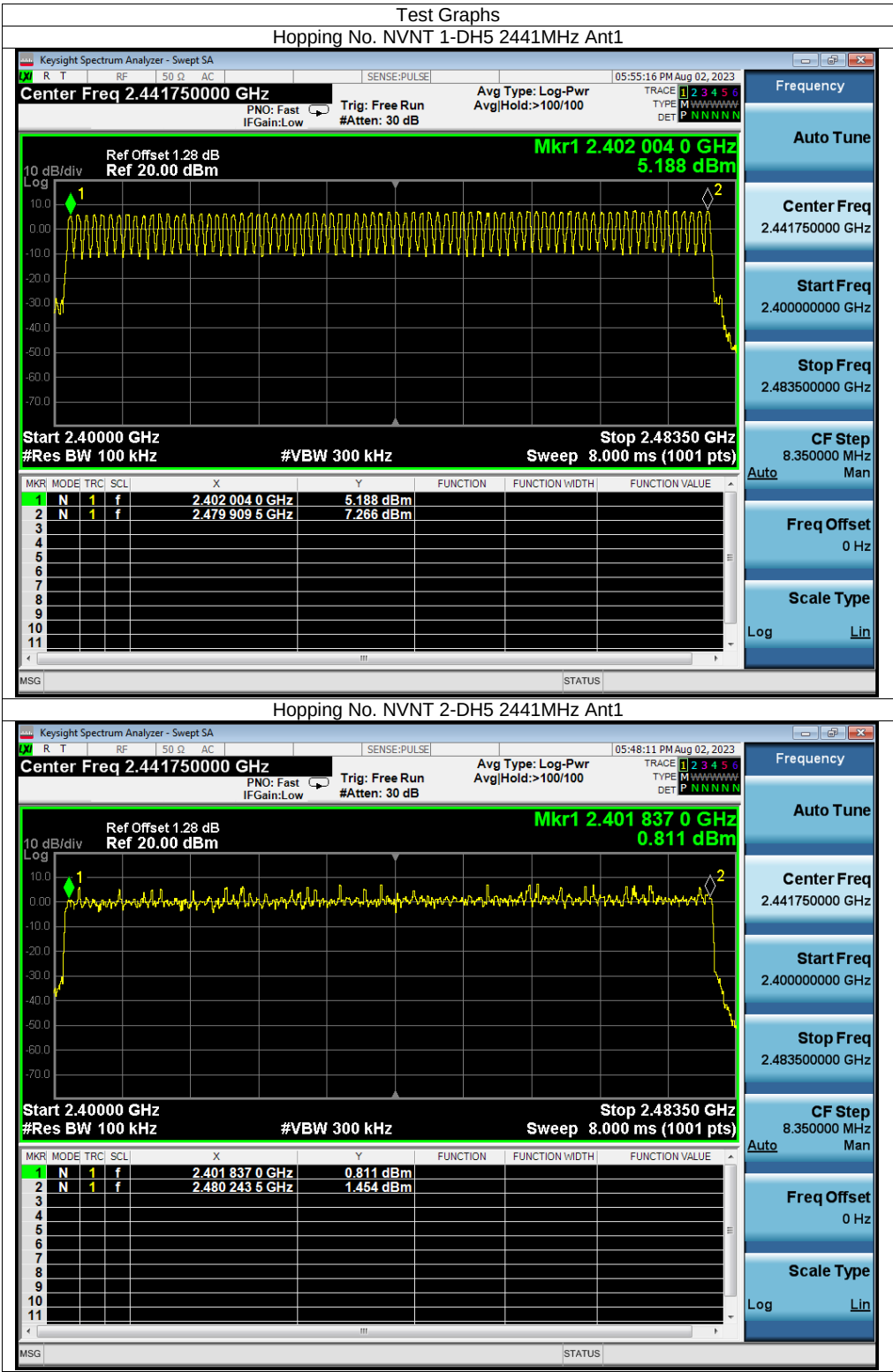


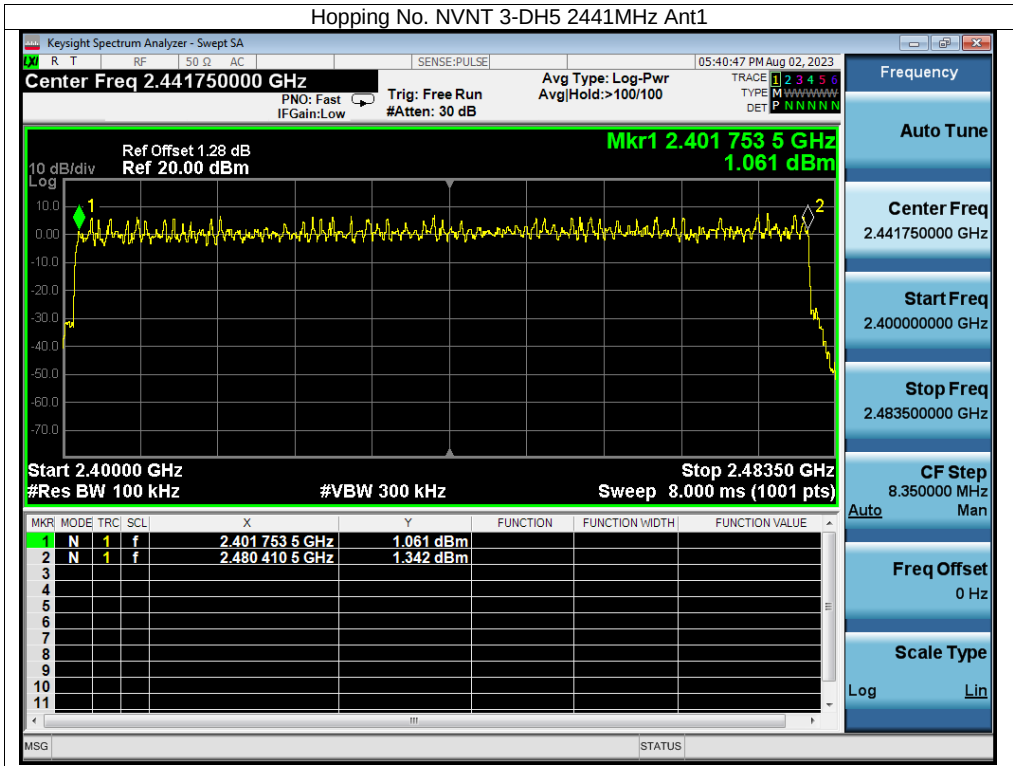




Appendix H Number of Hopping Channel

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





--- END OF REPORT---