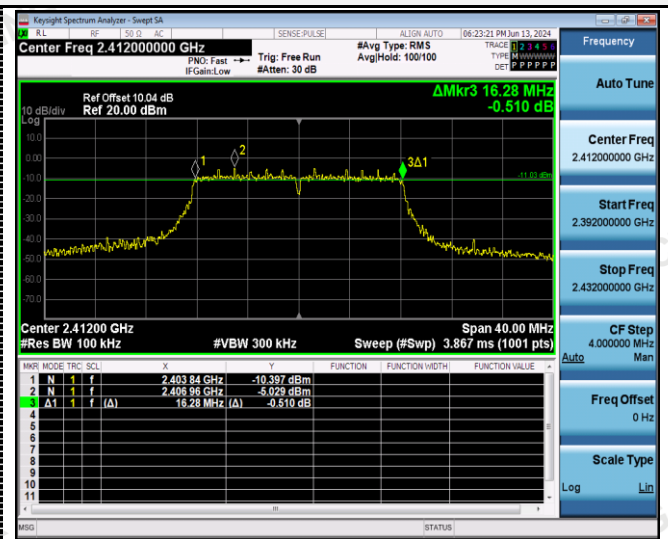


ANT 2

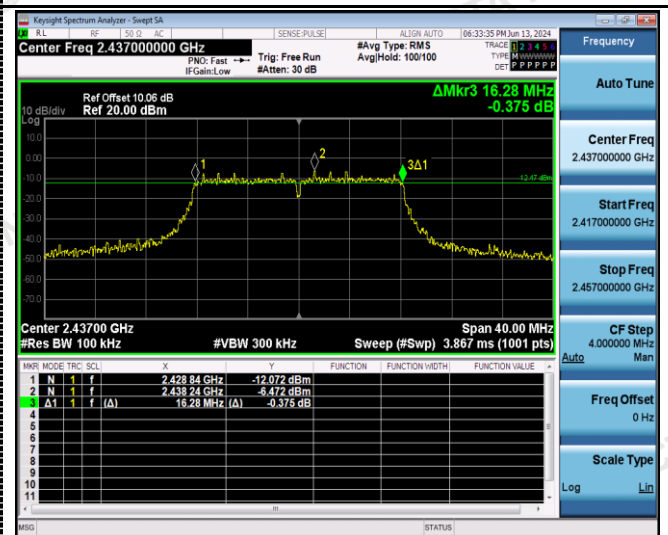
802.11b

802.11g



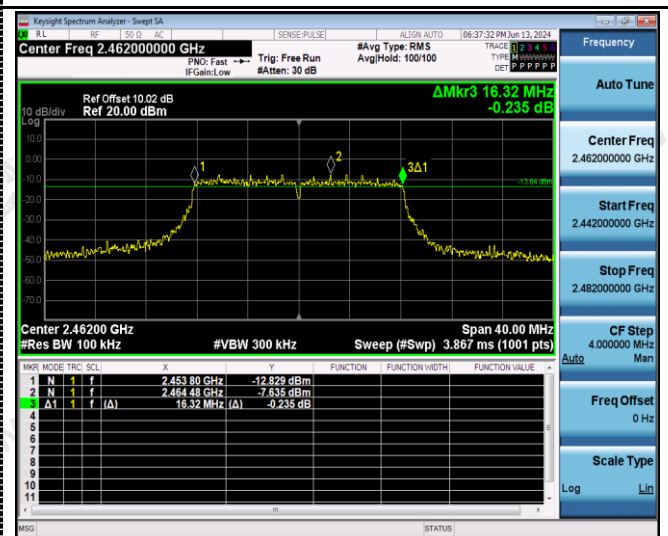
CH01

CH01



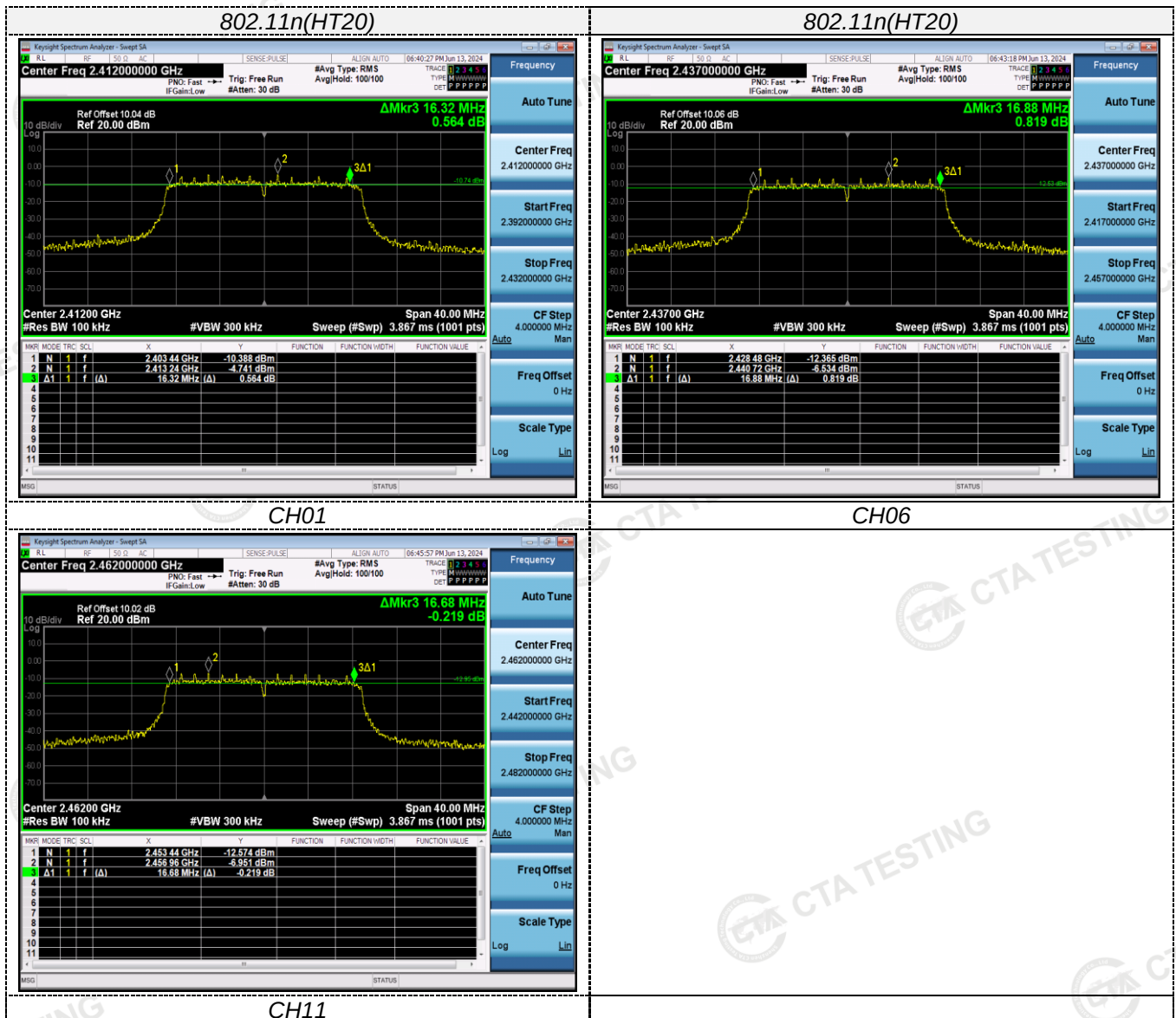
CH06

CH06



CH11

CH11



4.6 Out-of-band Emissions

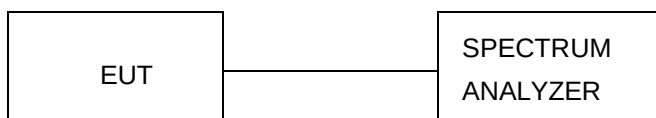
Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

Test Procedure

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, band edge and out-of-band emissions.

Test Configuration

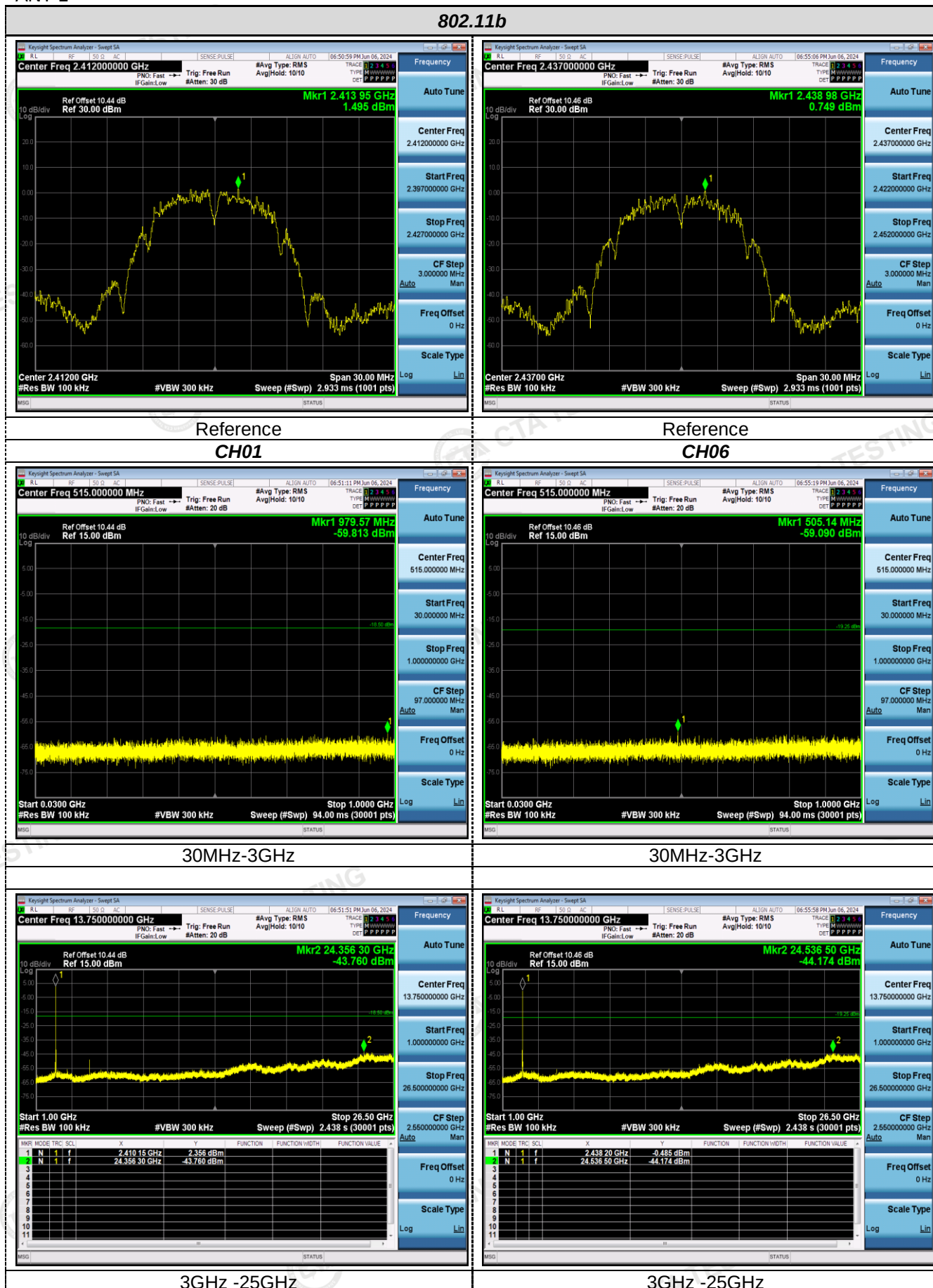


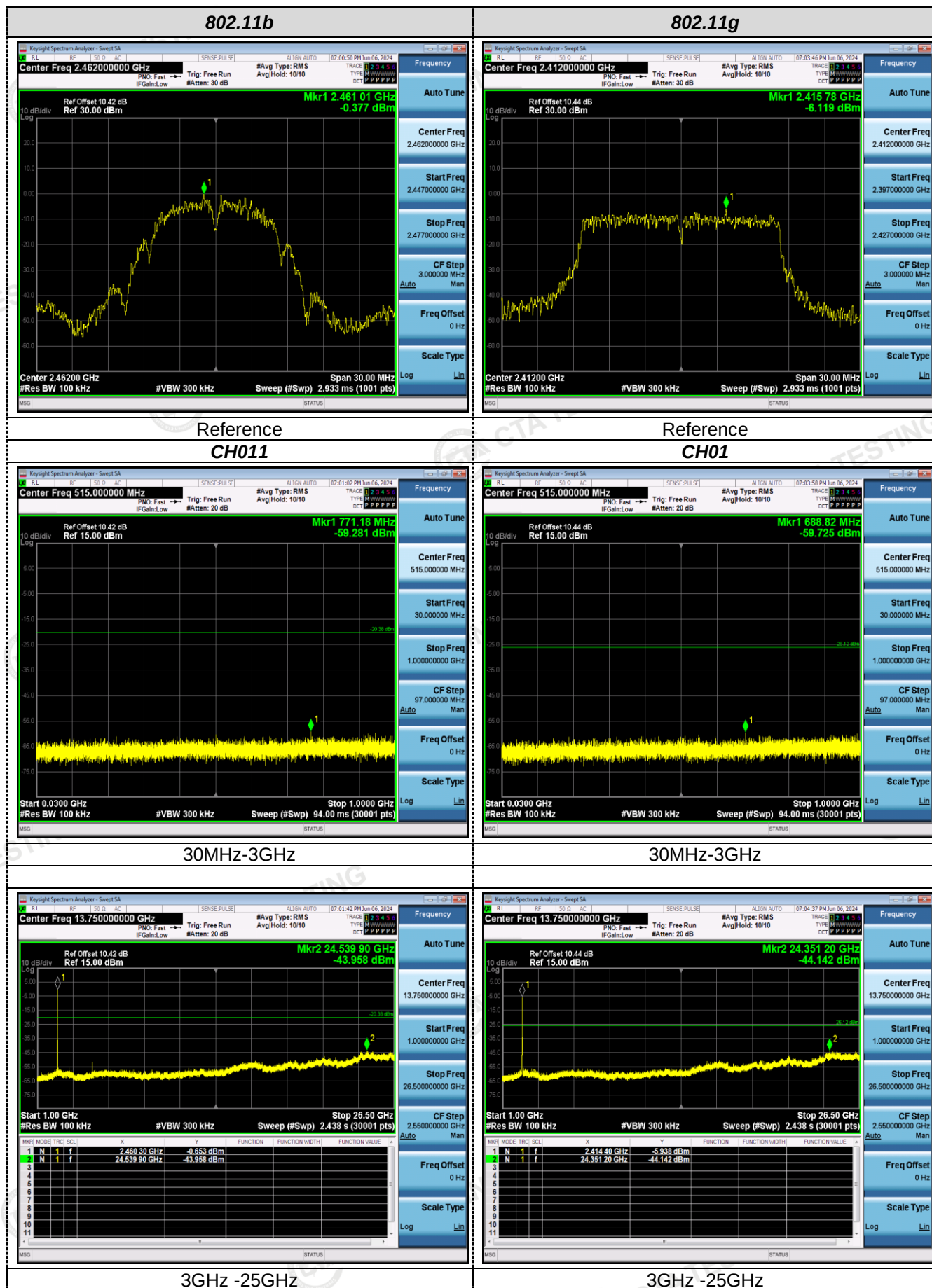
Test Results

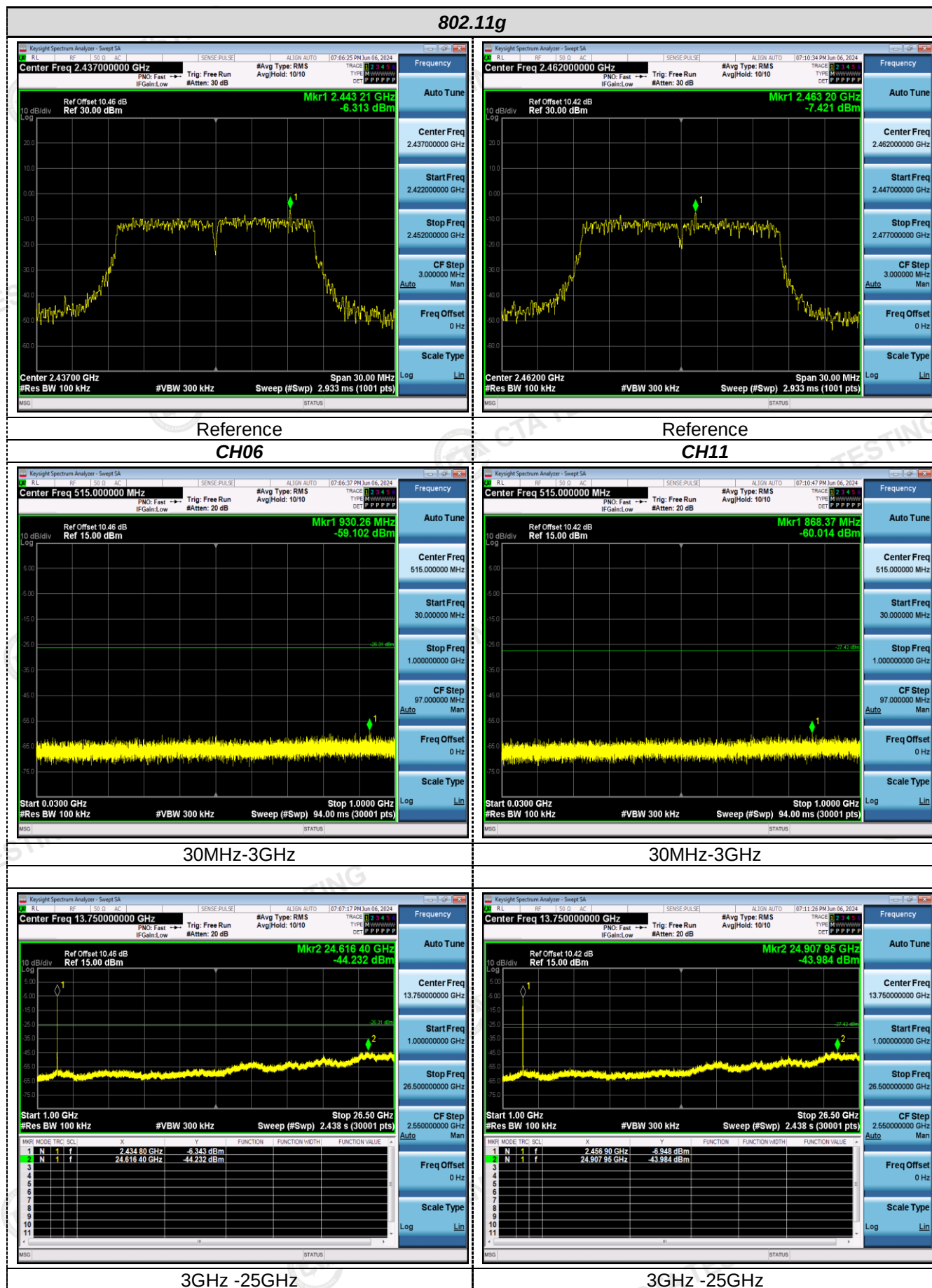
Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and band edge measurement data. And record the worst data in the report.

Test plot as follows:

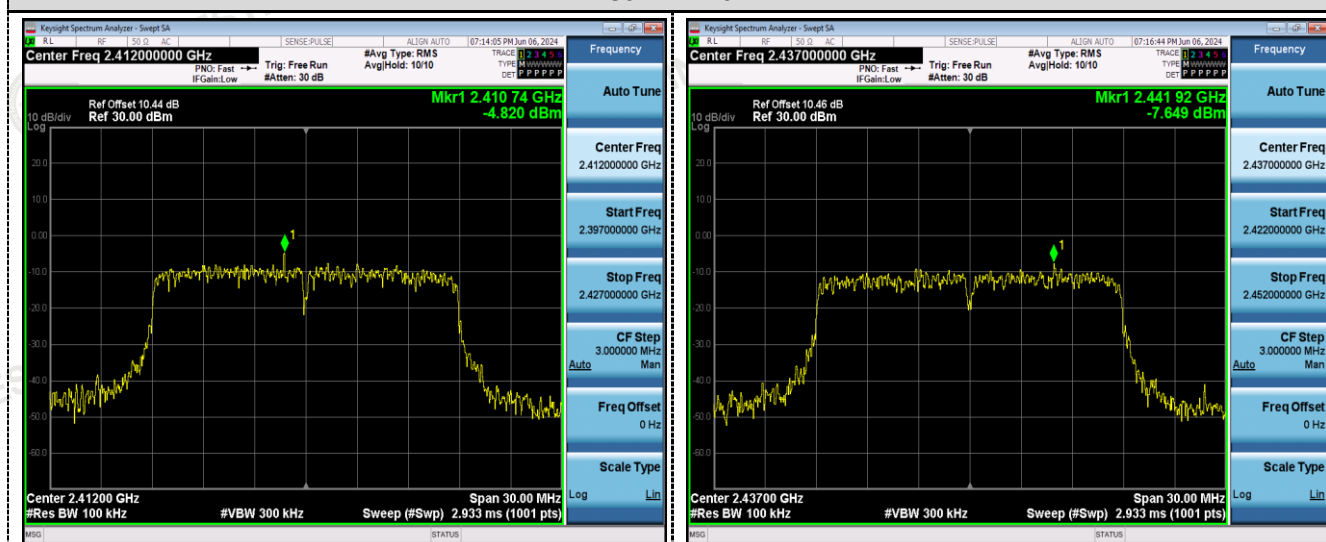
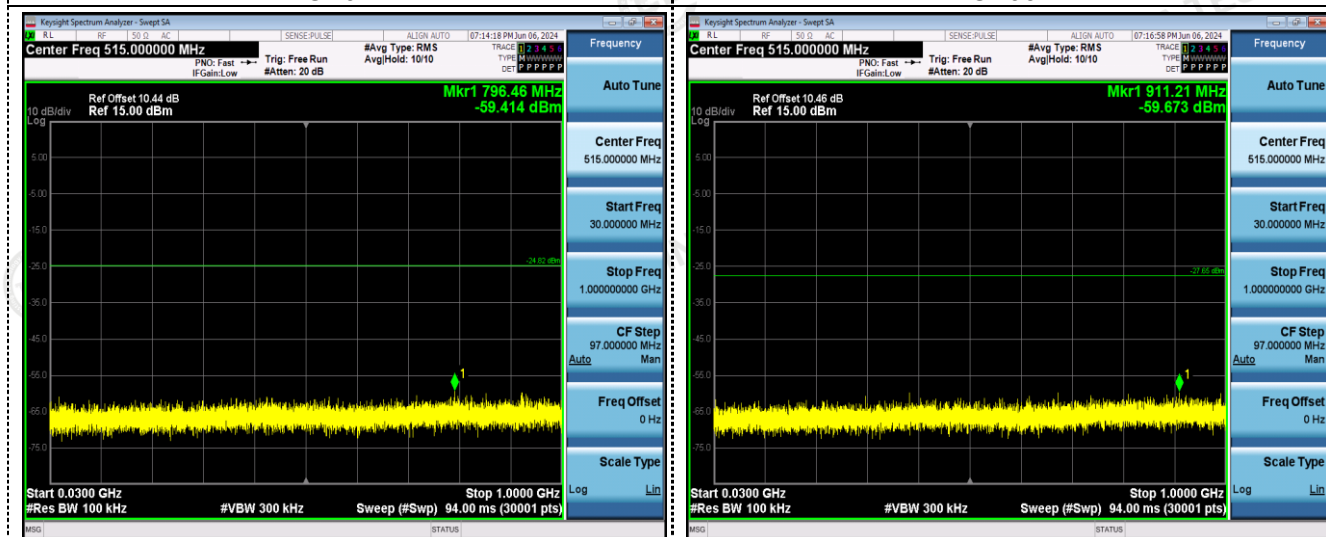
ANT 1





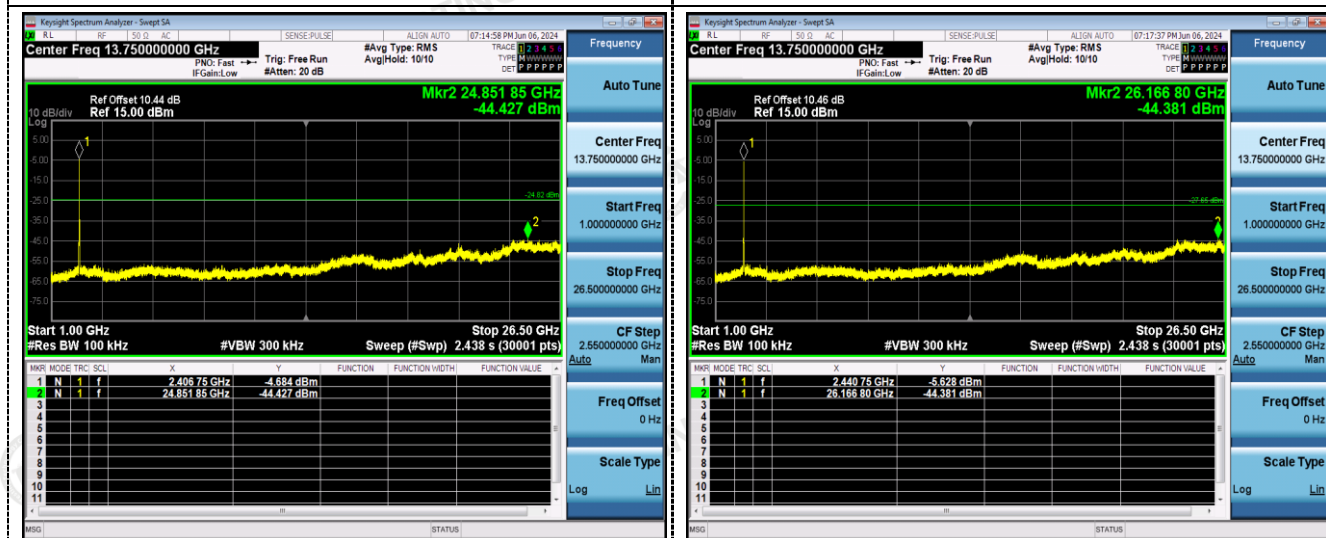


802.11n20

Reference
CH01Reference
CH06

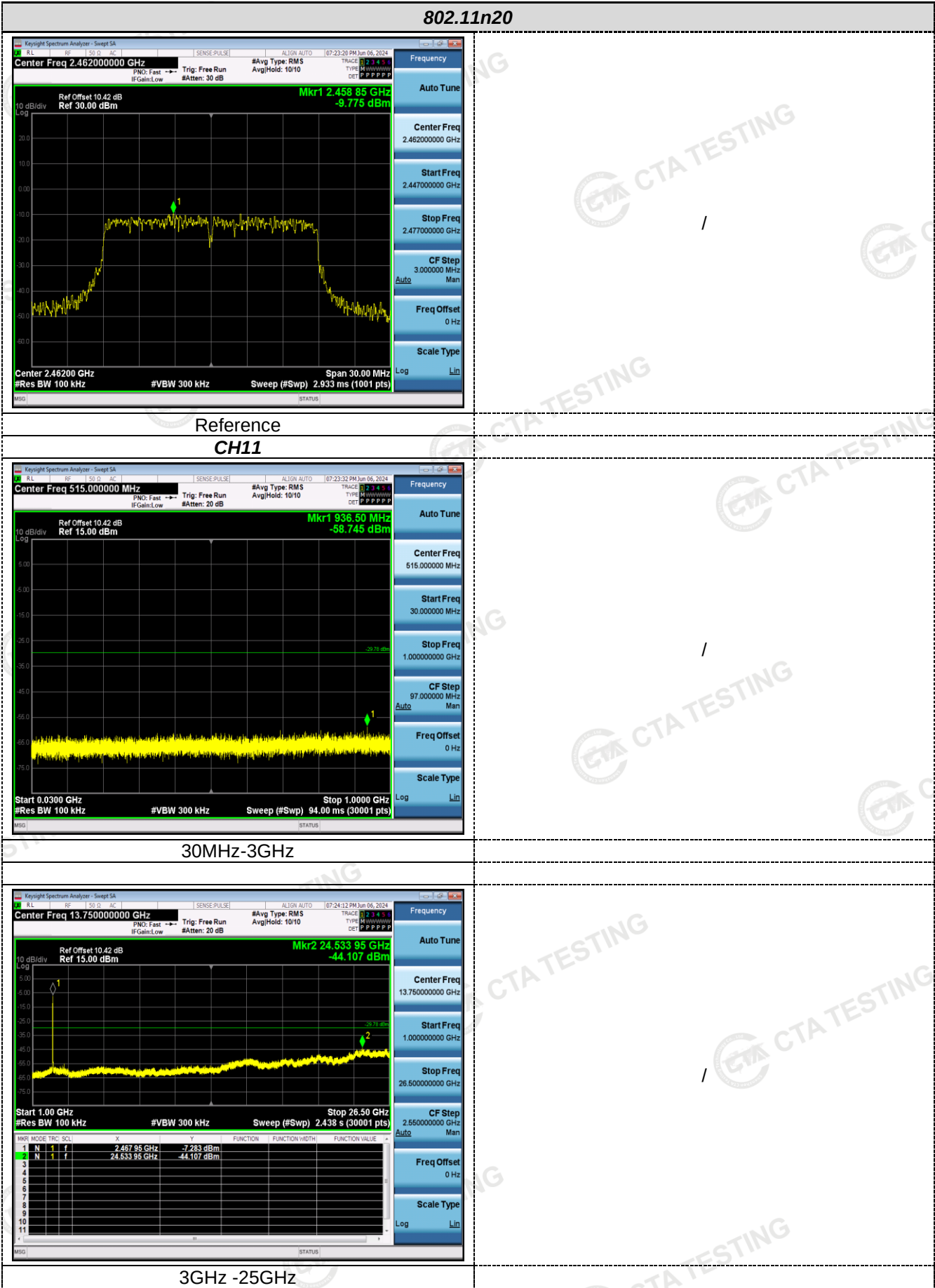
30MHz-3GHz

30MHz-3GHz



3GHz-25GHz

3GHz-25GHz



30MHz-3GHz

Keylight Spectrum Analyzer - Sweep 5A

Center Freq 13.75000000 GHz

Ref Offset 10.42 dB

Ref 15.00 dBm

Mkr2 24.533 95 GHz

-44.107 dBm

Start 1.00 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep (#Swp) 2.438 s (30001 pts)

Frequency

Auto Tune

Center Freq

13.75000000 GHz

Start Freq

1.000000000 GHz

Stop Freq

26.500000000 GHz

CF Step

2.560000000 GHz

Man

Freq Offset

0 Hz

Scale Type

Log

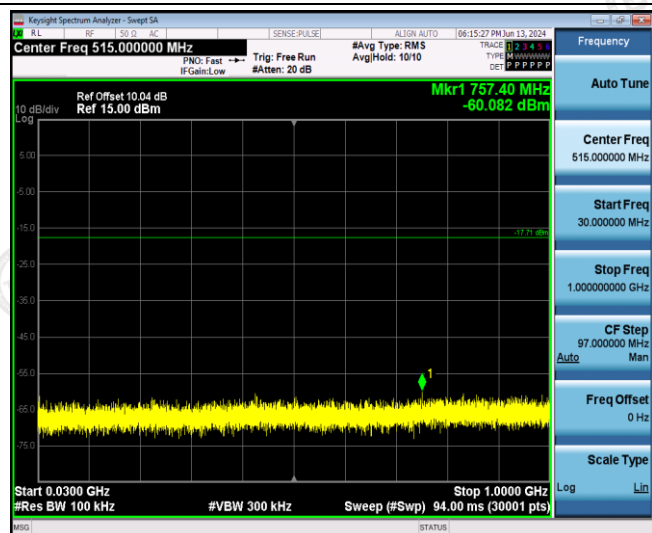
Lin

Marker	Mode	Trc	SCL	X	Y	Function	Function Width	Function Value
1	N	1	f	2.458 85 GHz	-7.283 dBm			
2	N	1	f	24.533 95 GHz	-44.107 dBm			

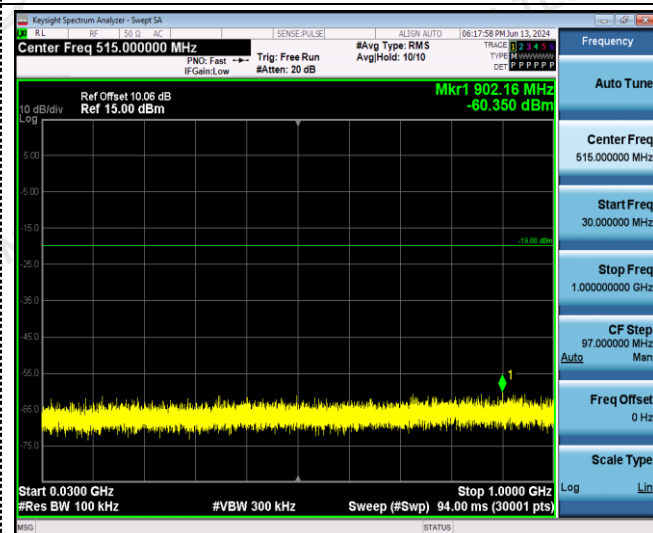
3GHz -25GHz

ANT 2

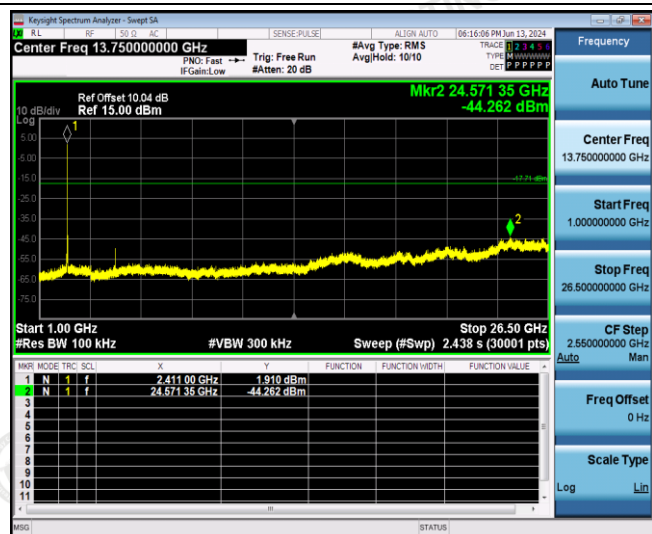
802.11b

Reference
CH01Reference
CH06

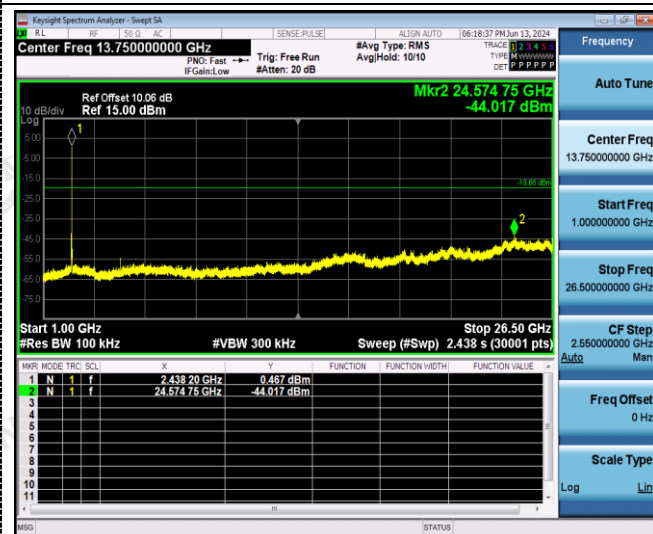
30MHz-3GHz



30MHz-3GHz



3GHz -25GHz



3GHz -25GHz