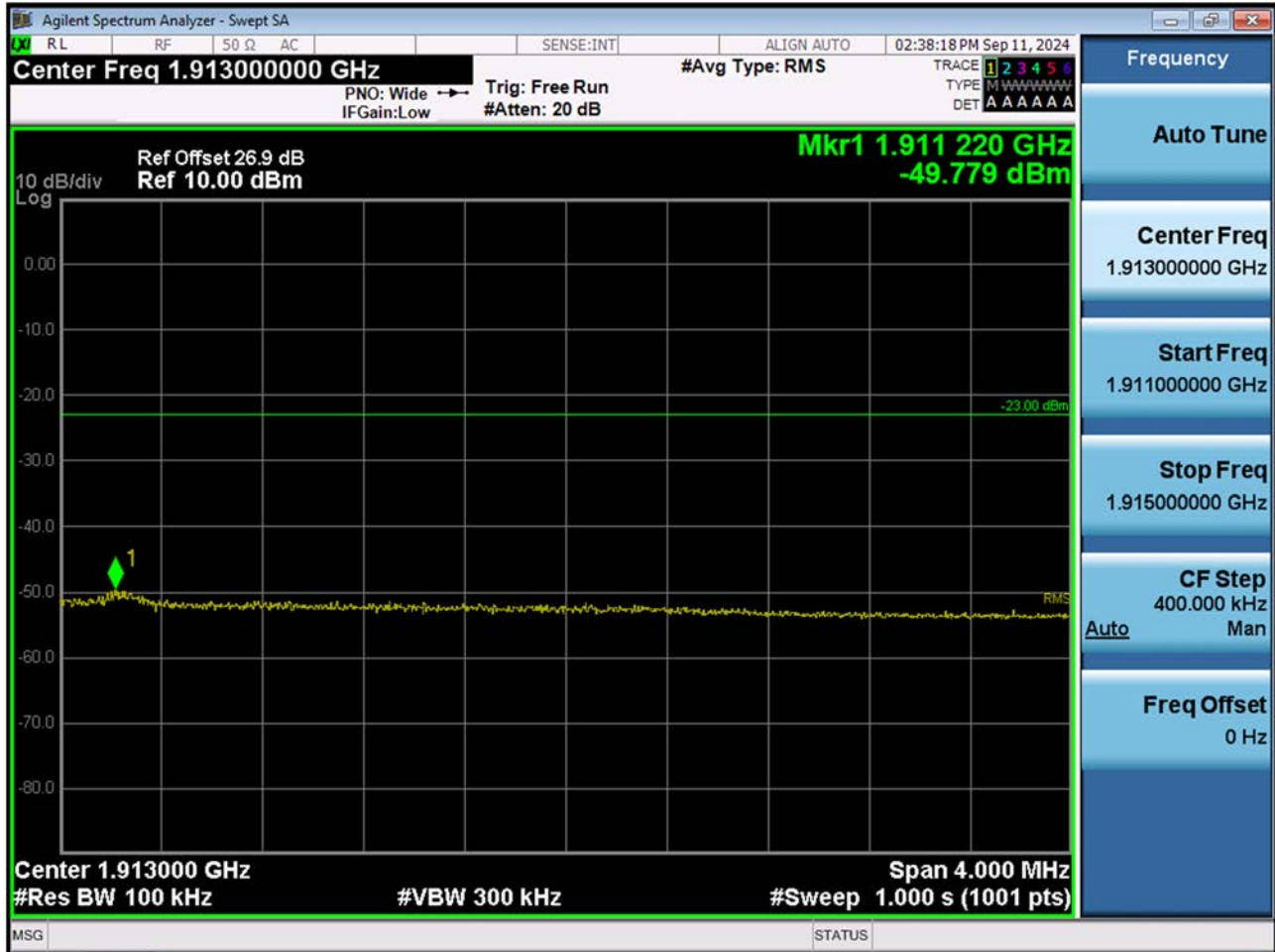


EDGE MODE (810 CH.) Block Edge 3



Note : We used a narrower RBW in order to increase accuracy.

$$\text{Calculation} = \text{Reading Value} + 10 \times \log(1 \text{ MHz}/100 \text{ kHz}) \text{ dB} = -49.779 \text{ dBm} + 10 \text{ dB} = -39.779 \text{ dBm}$$

■ WCDMA850 MODE (4132 CH.) Block Edge



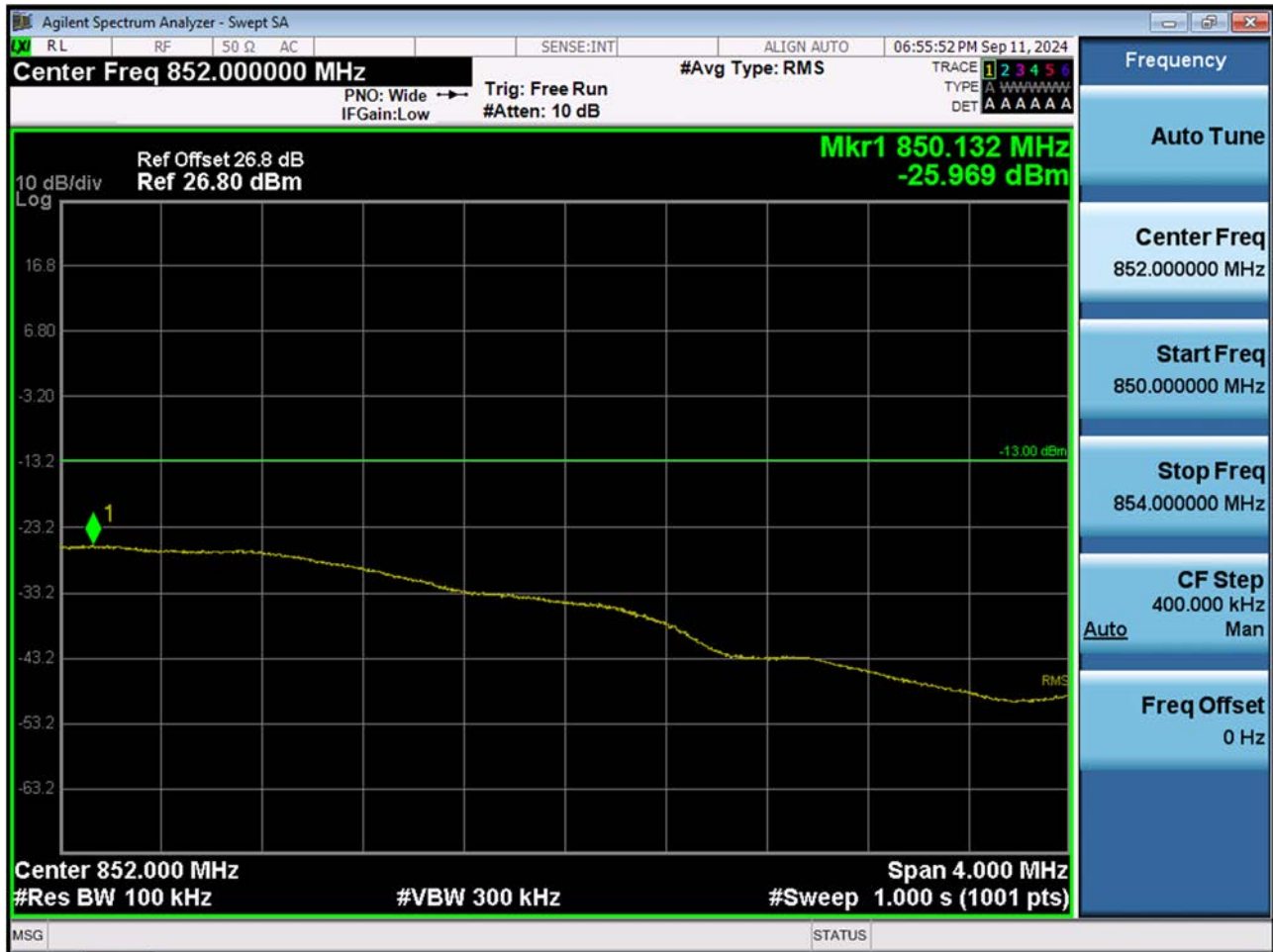
WCDMA850 MODE (4132 CH.) – 4 MHz Span



WCDMA850MODE (4233 CH.) Block Edge



■ WCDMA850MODE (4233 CH.) – 4 MHz Span



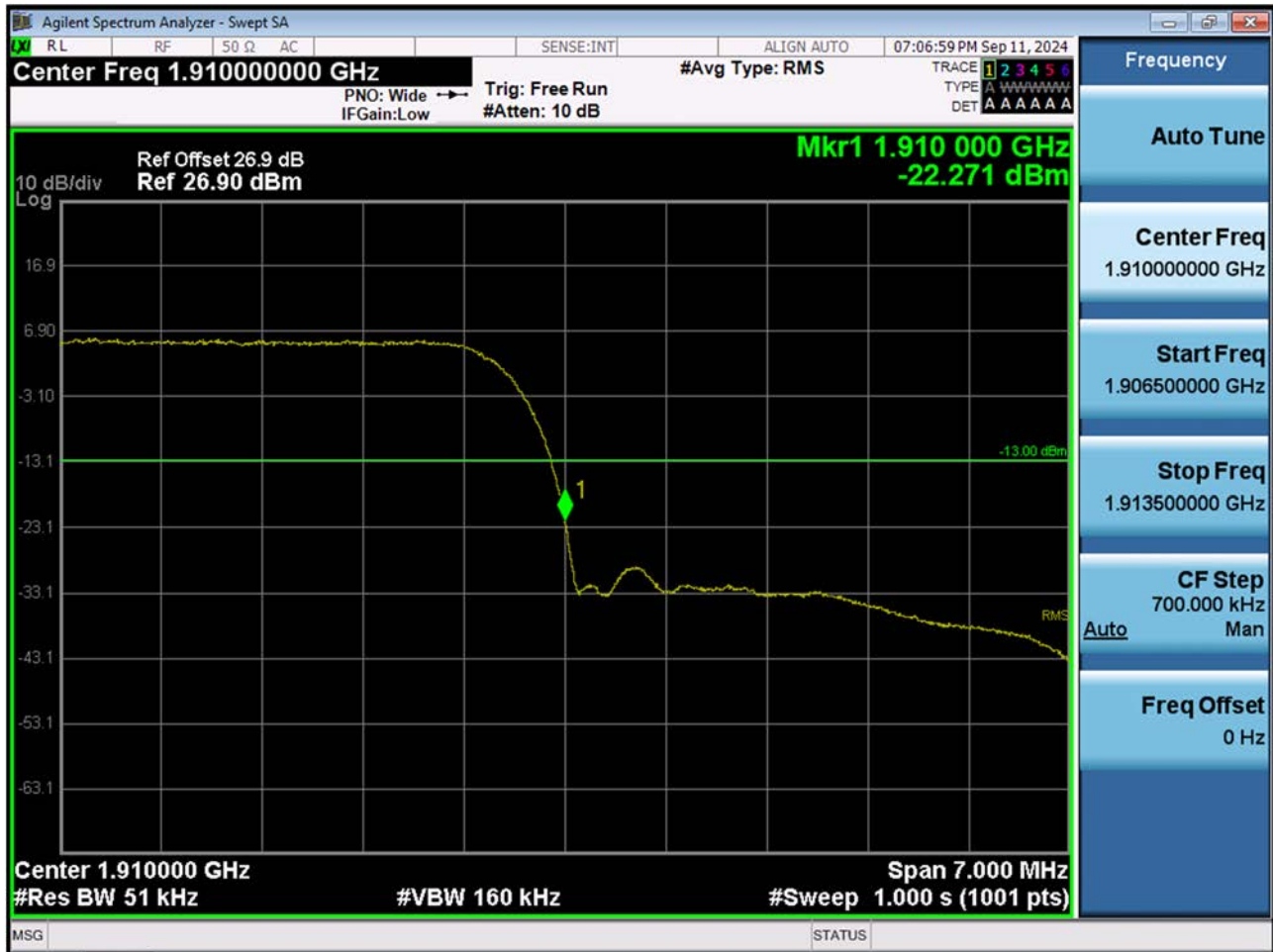
■ WCDMA1900 MODE (9262 CH.) Block Edge



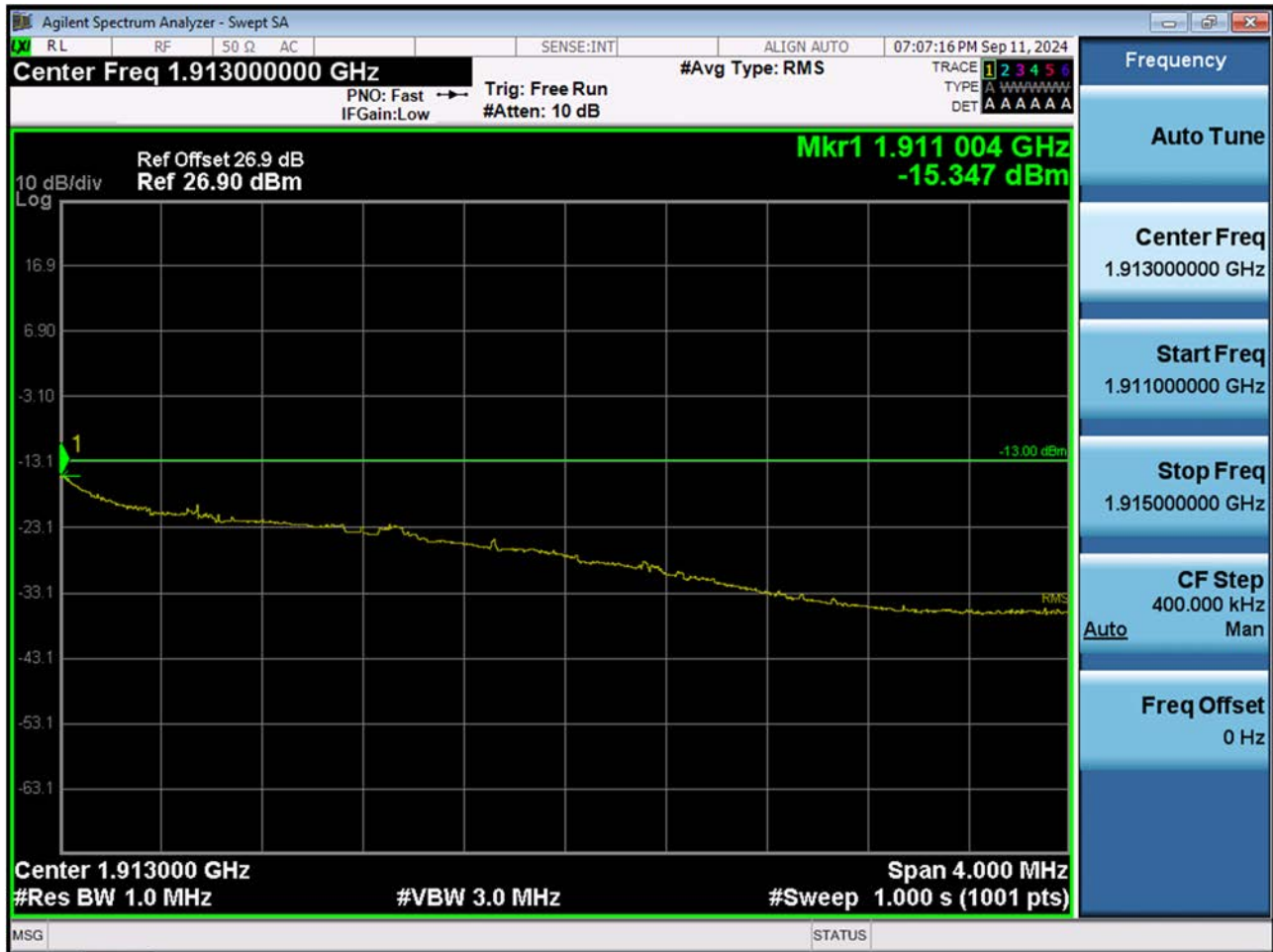
■ WCDMA1900 MODE (9262 CH.) – 4 MHz Span



■ WCDMA1900 MODE (9538 CH.) Block Edge



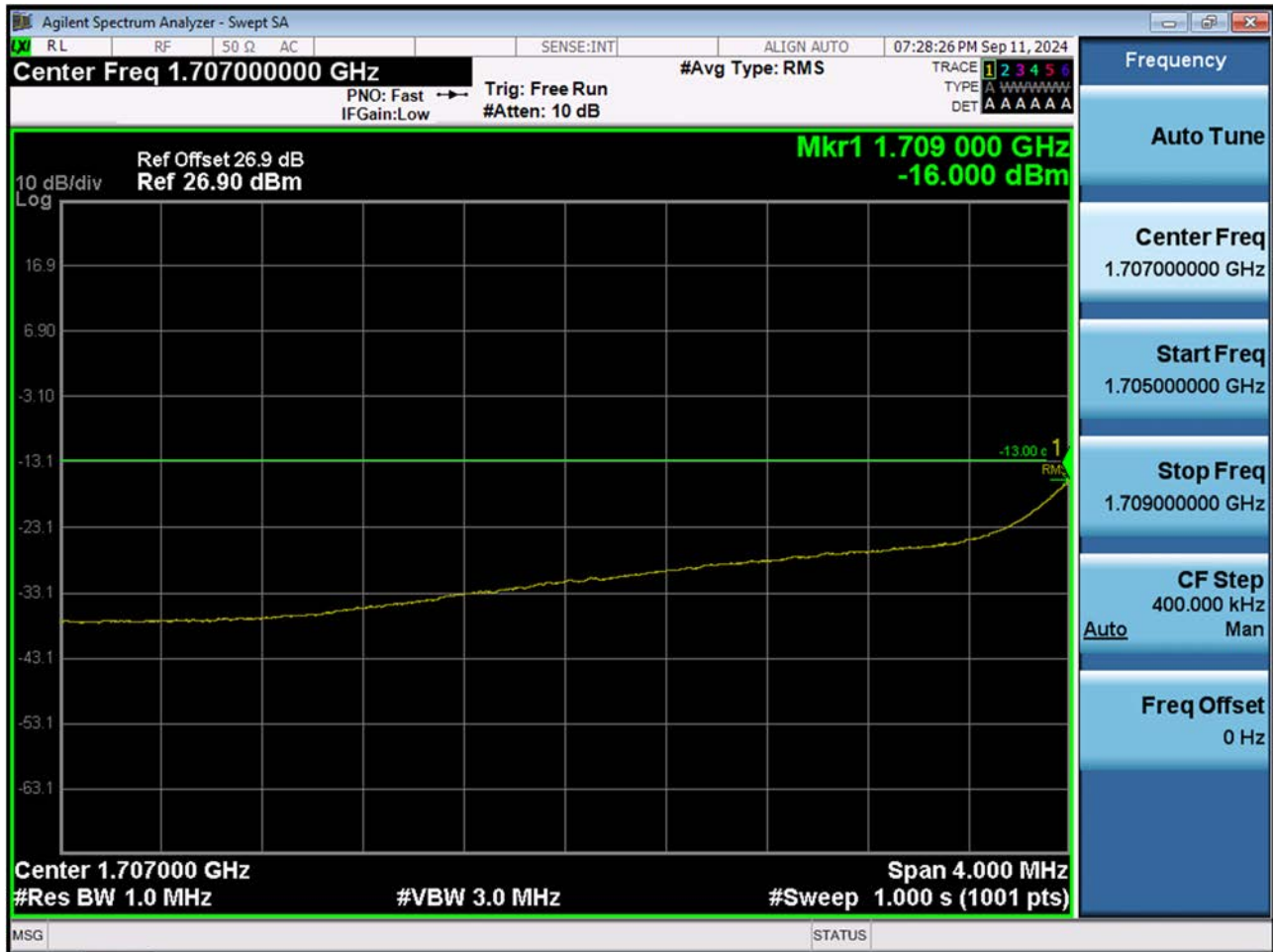
WCDMA1900 MODE (9538 CH.) – 4 MHz Span



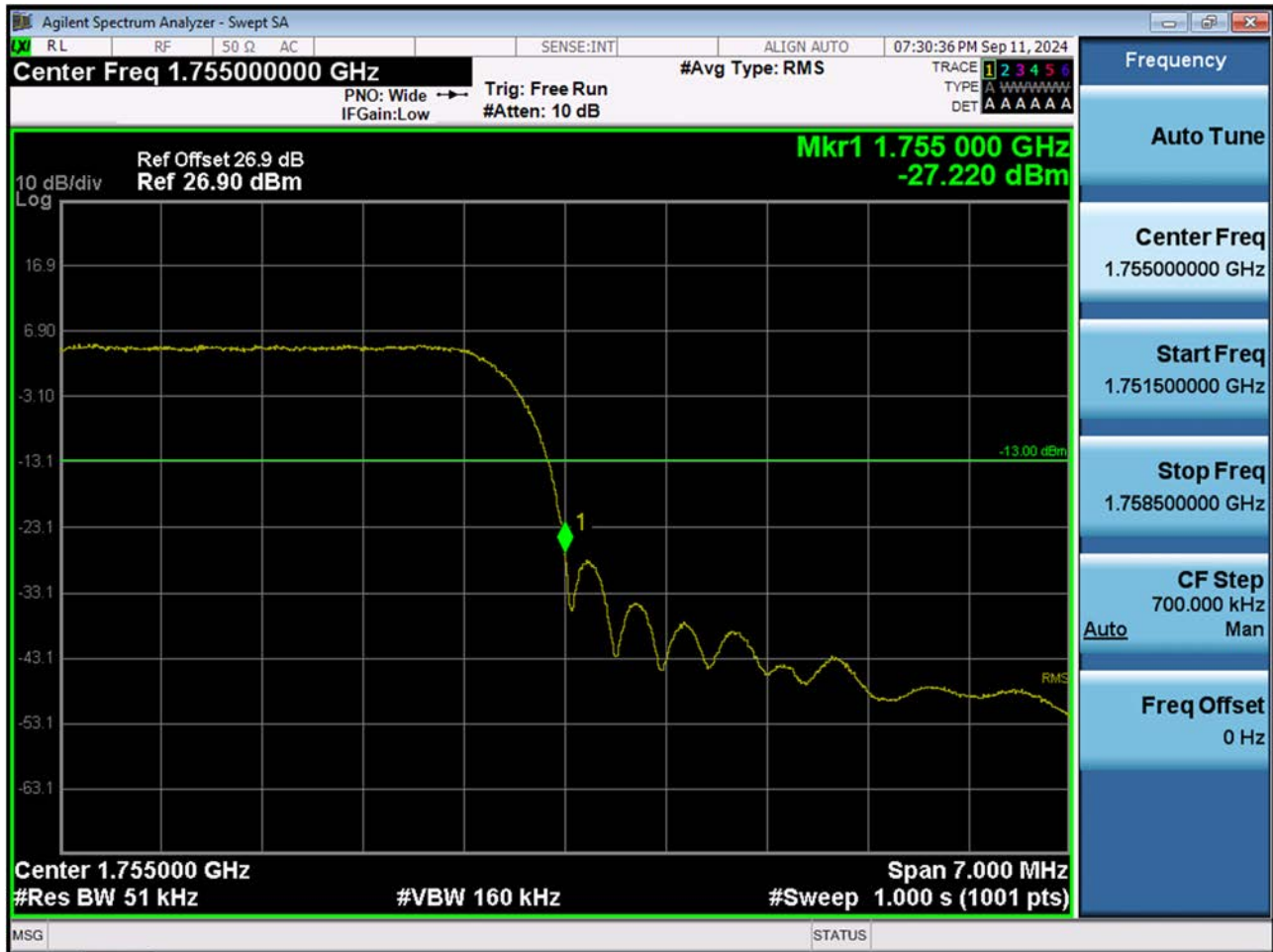
■ WCDMA1700 MODE (1312 CH.) Block Edge



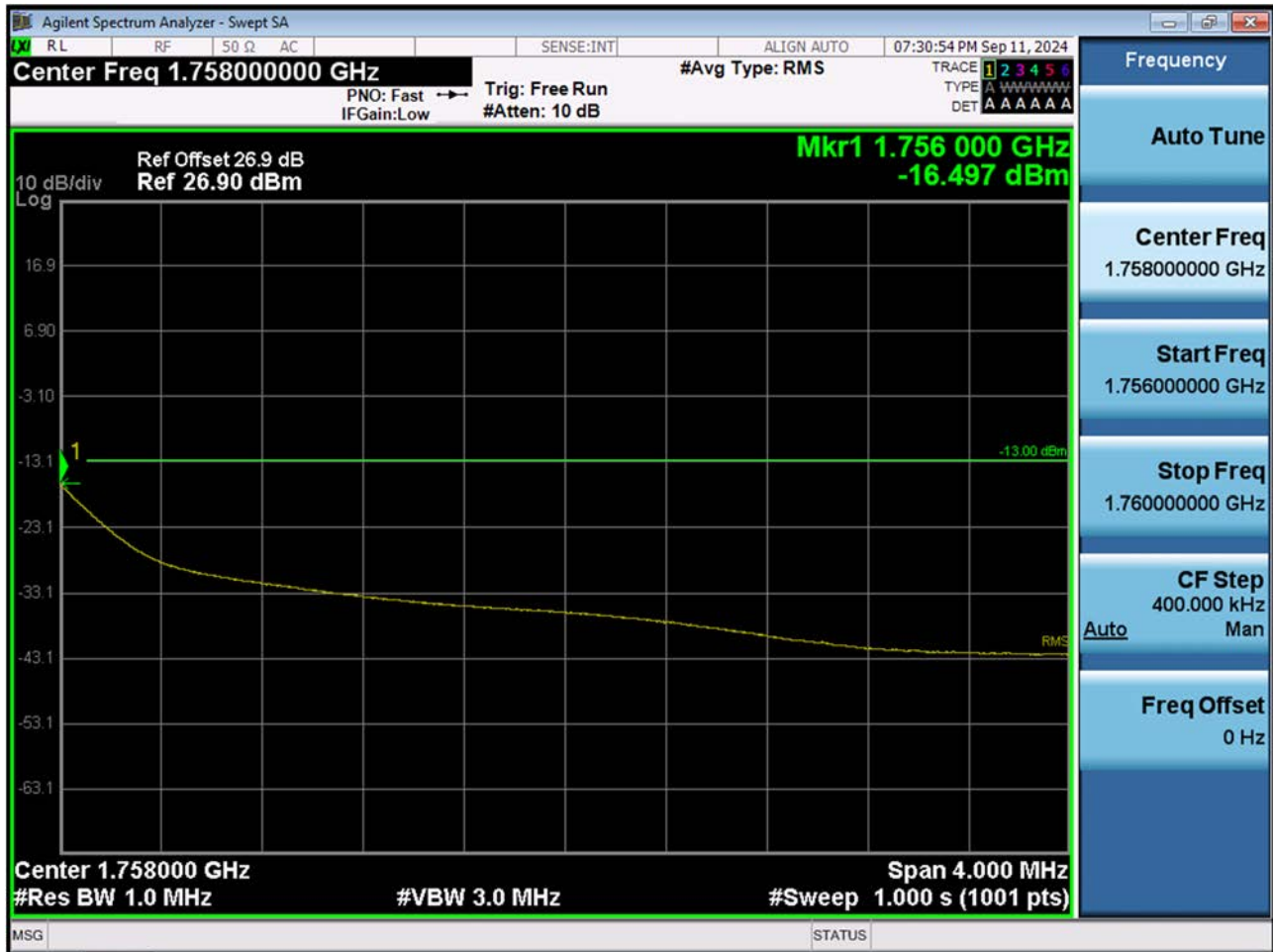
■ WCDMA1700 MODE (1312 CH.) – 4 MHz Span



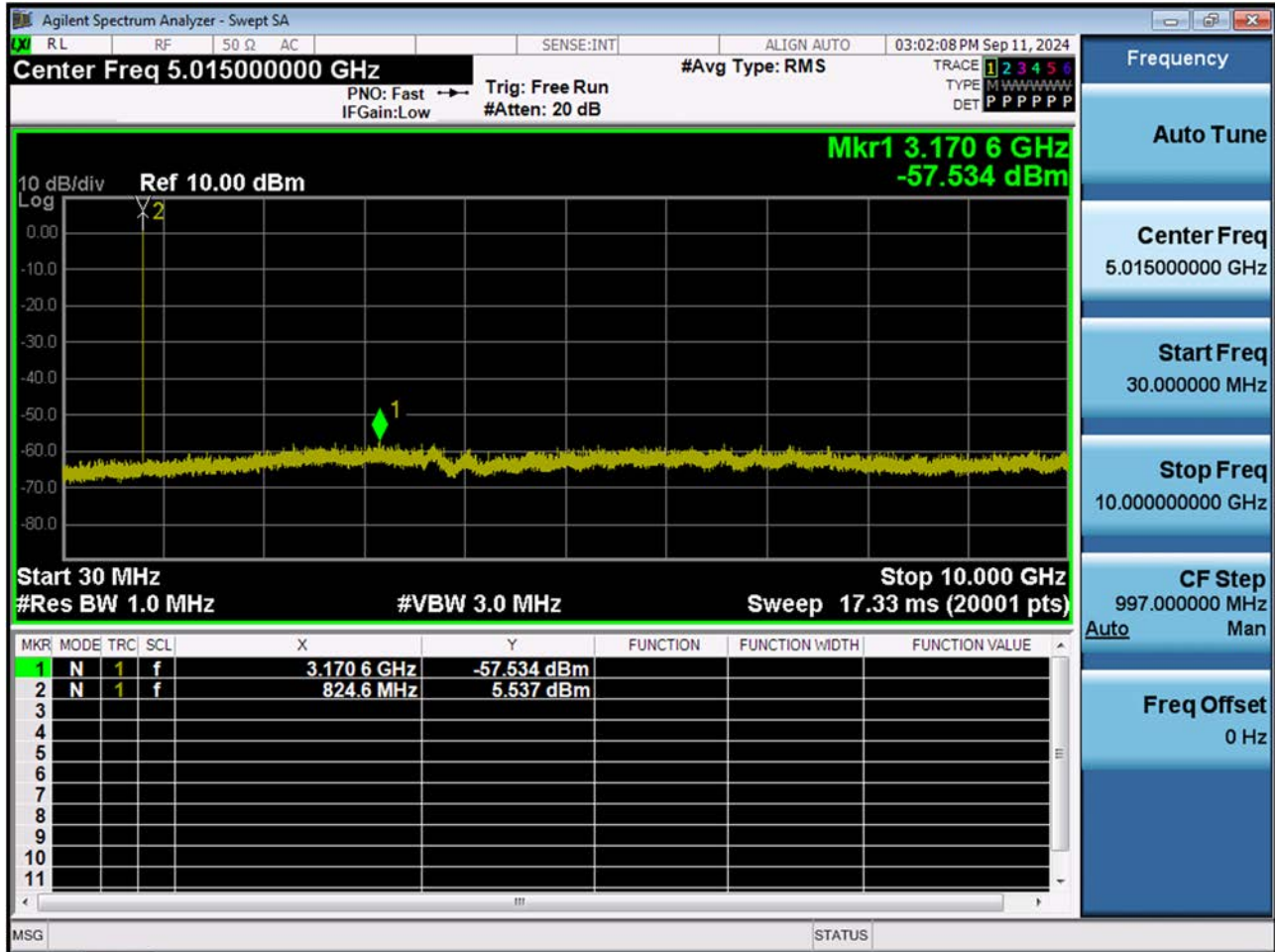
■ WCDMA1700 MODE (1513 CH.) Block Edge



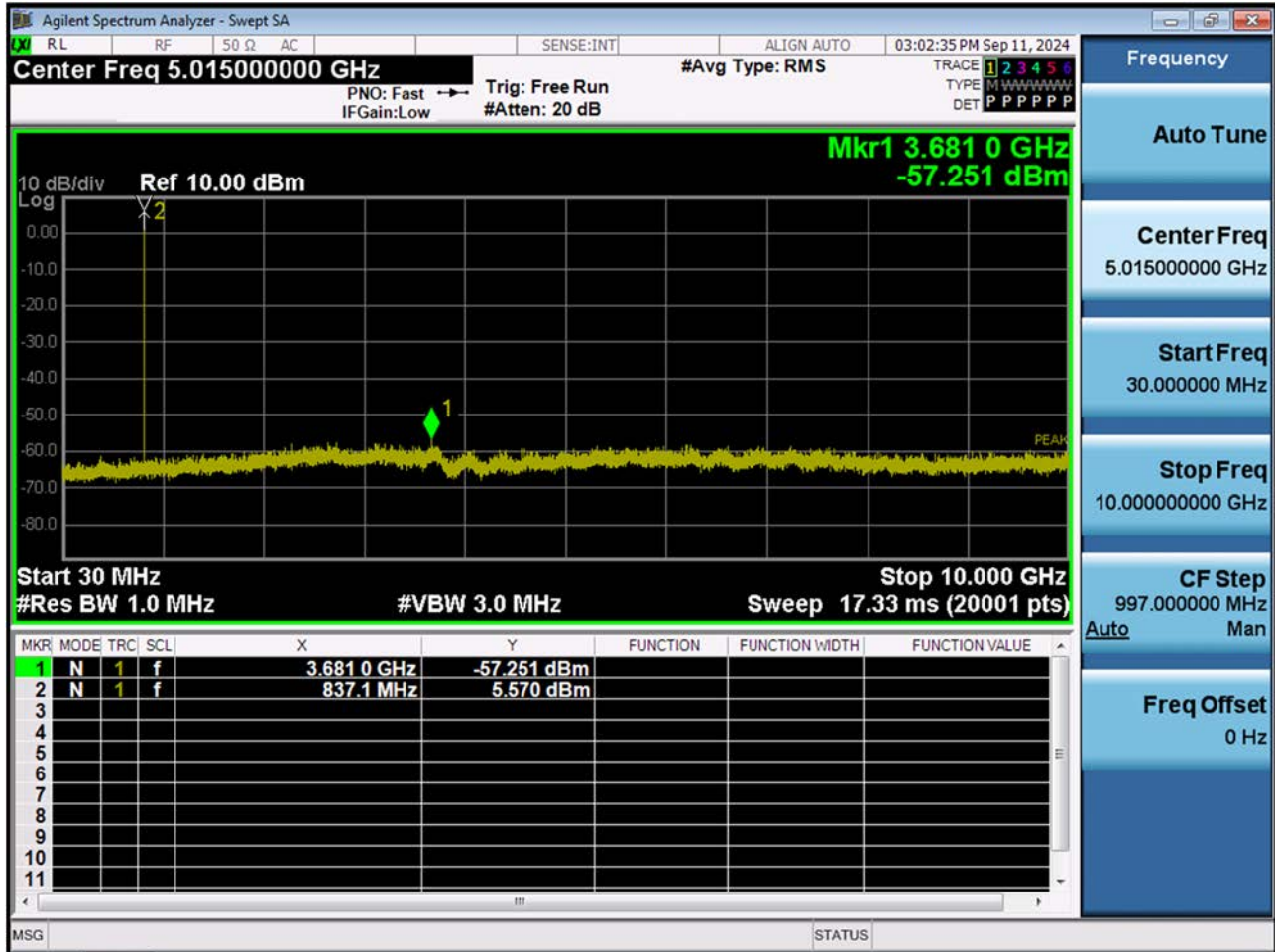
■ WCDMA1700 MODE (1513 CH.) – 4 MHz Span



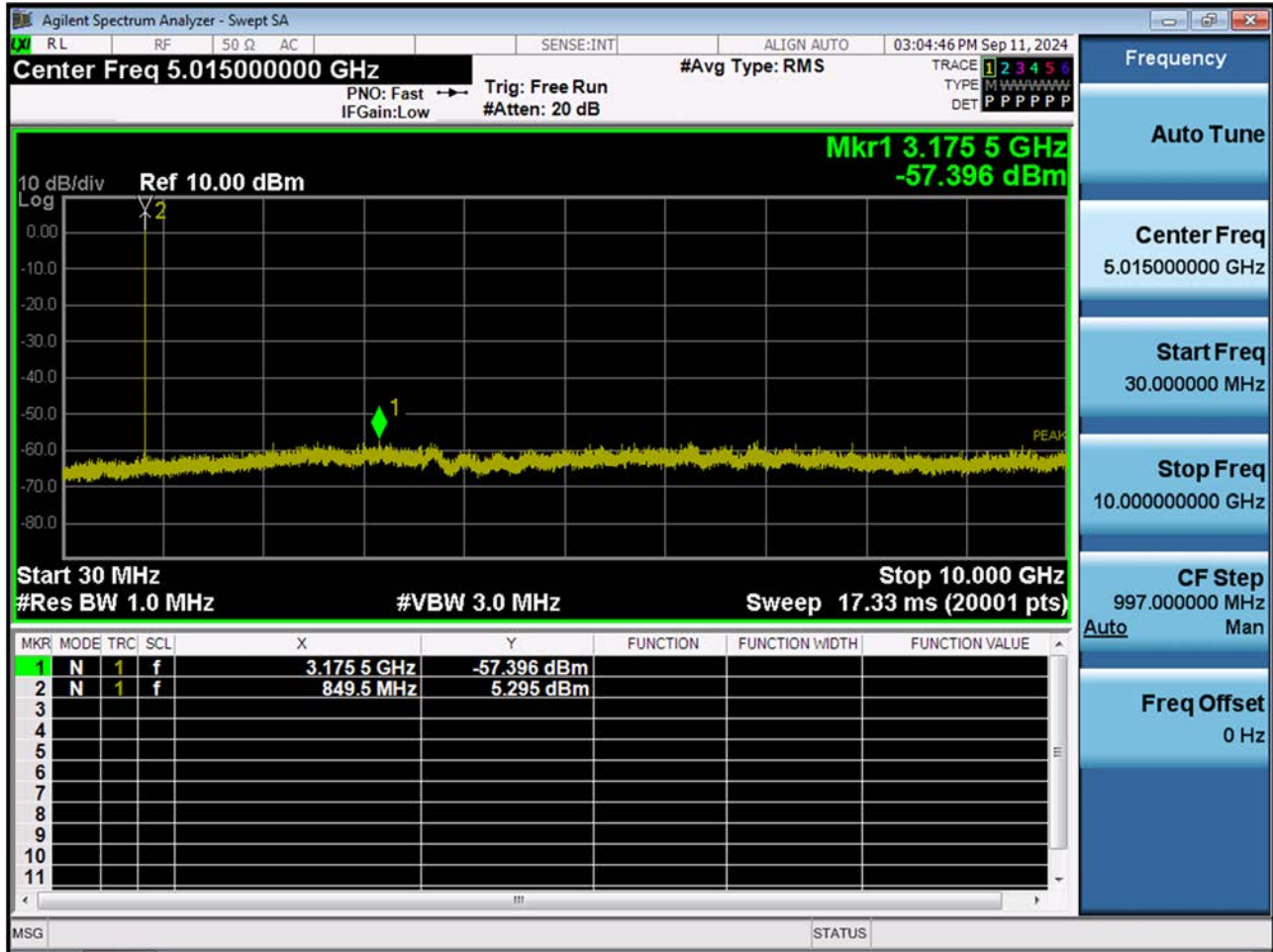
■ GSM850 MODE (128 CH.) Conducted Spurious Emissions



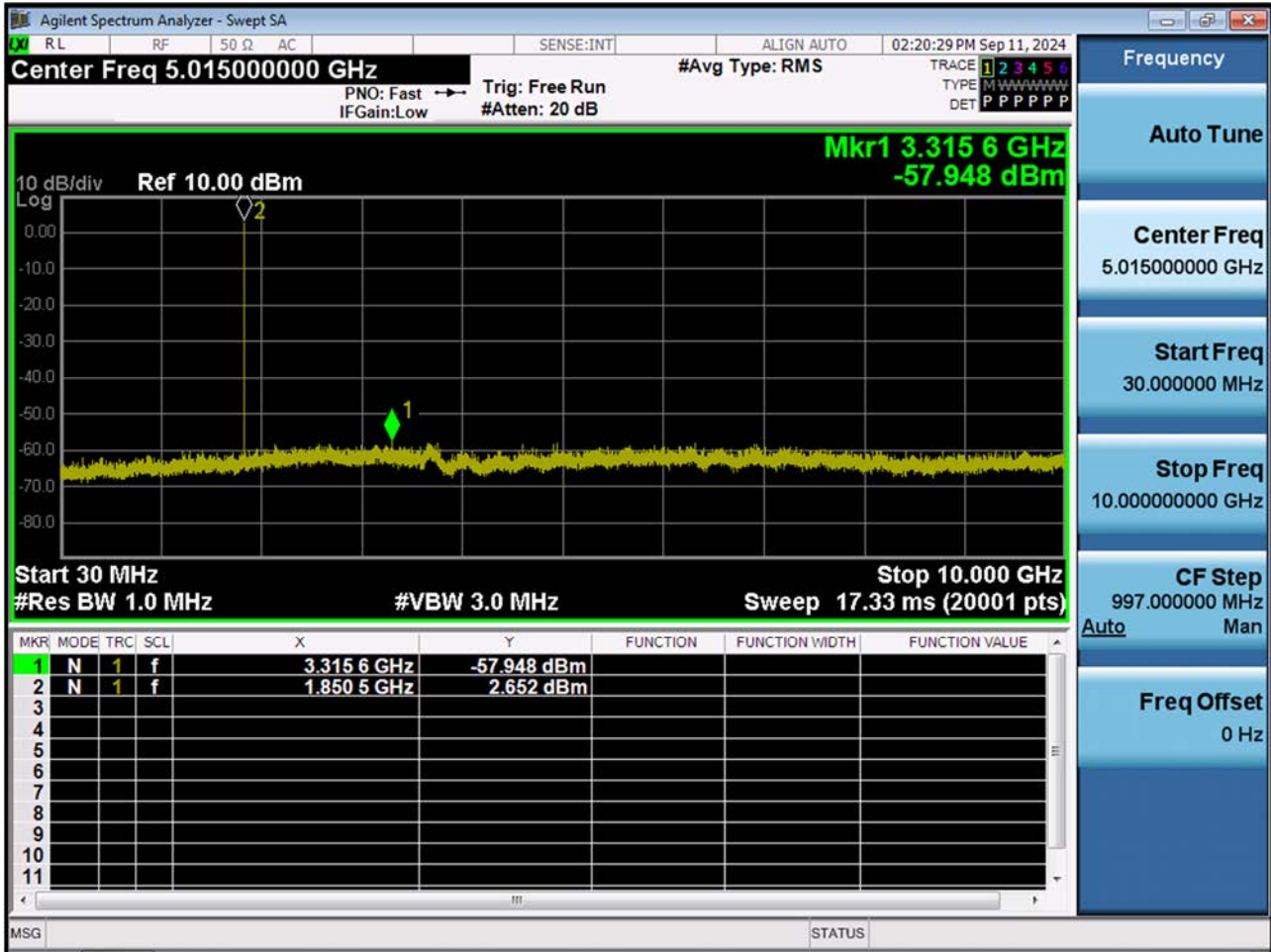
■ GSM850 MODE (190 CH.) Conducted Spurious Emissions



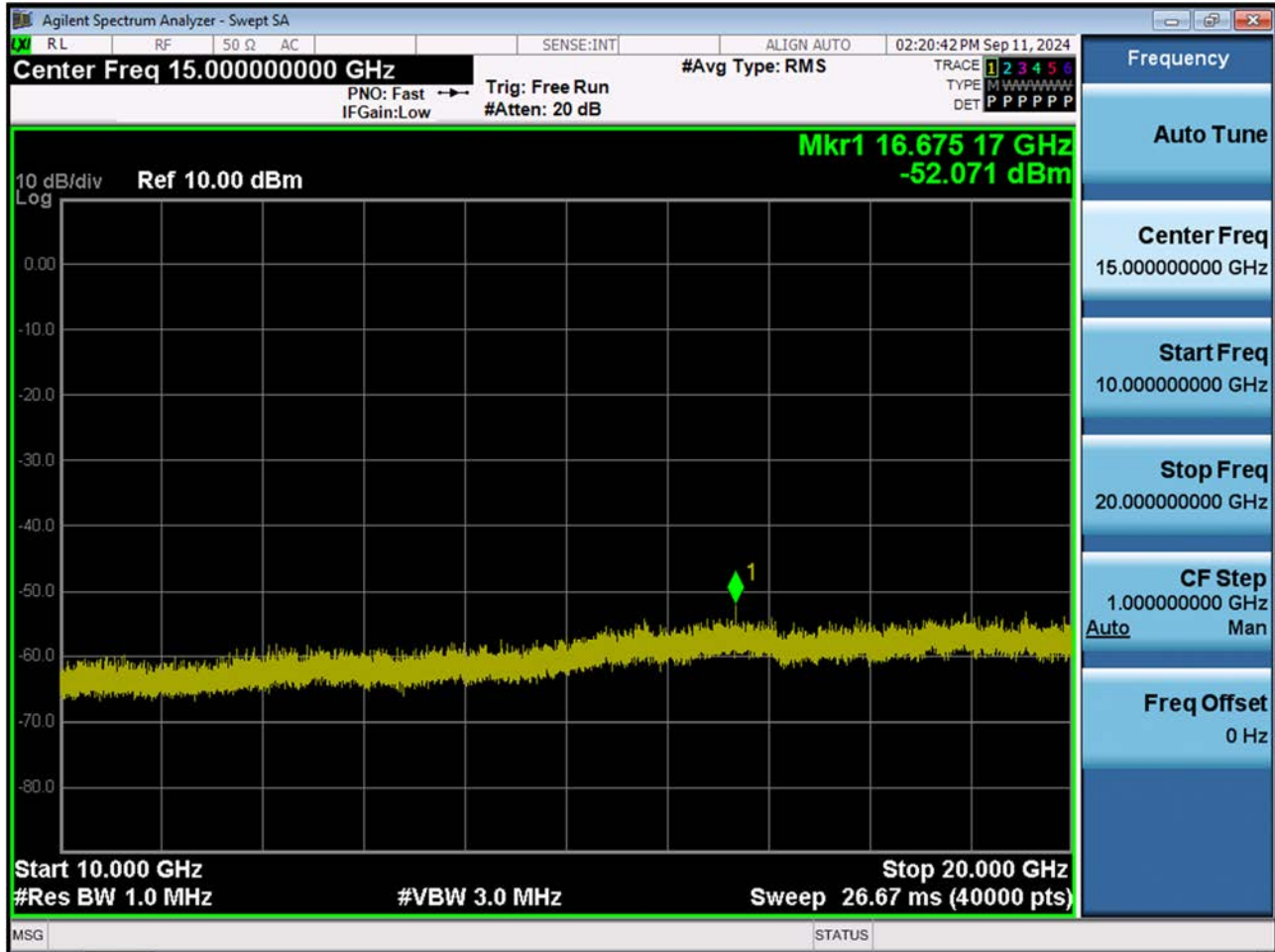
■ GSM850 MODE (251 CH.) Conducted Spurious Emissions



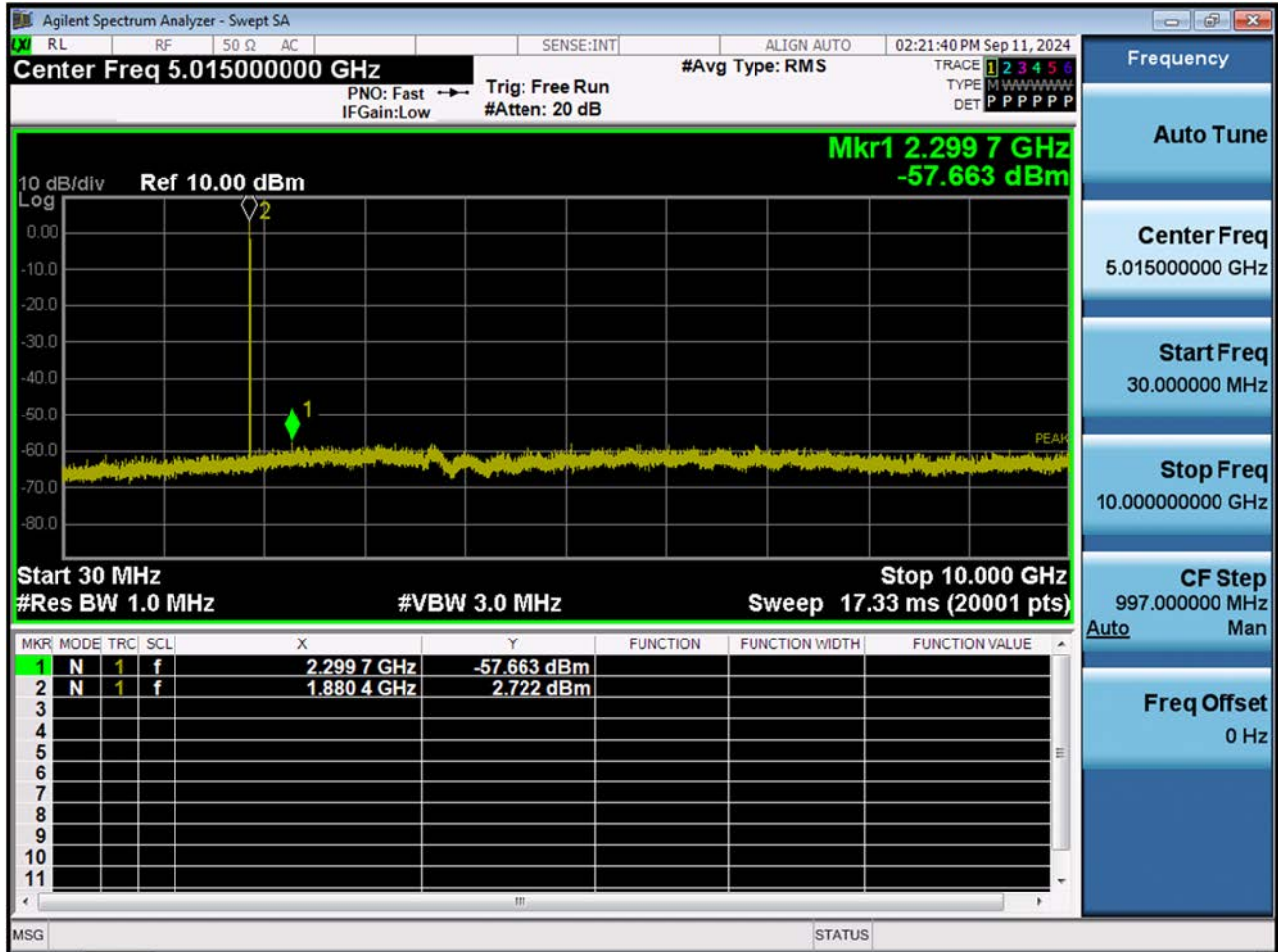
■ GSM1900 MODE (512 CH.) Conducted Spurious Emissions1



■ GSM1900 MODE (512 CH.) Conducted Spurious Emissions2



■ GSM1900 MODE (661 CH) Conducted Spurious Emissions1



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 02:21:53 PM Sep 11, 2024

Center Freq 15.00000000 GHz #Avg Type: RMS

PNO: Fast Trig: Free Run

IFGain:Low #Atten: 20 dB

TRACE 1 2 3 4 5 6

TYPE M W W W W W W W W W

DET P P P P P P

10 dB/div Ref 10.00 dBm

Mkr1 16.774 67 GHz

-53.253 dBm

Start 10.000 GHz

#Res BW 1.0 MHz

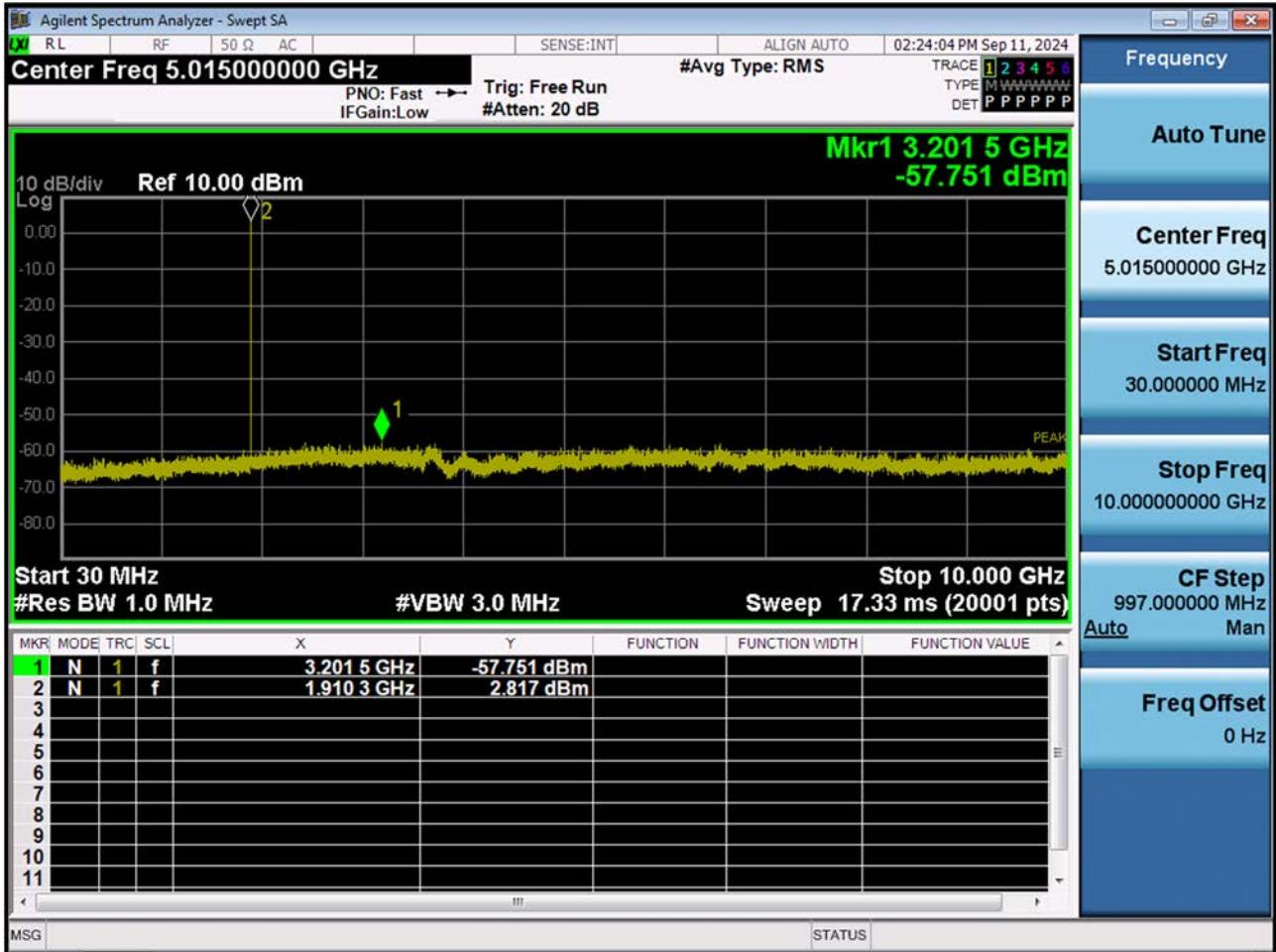
#VBW 3.0 MHz

Sweep 26.67 ms (40000 pts)

Stop 20.000 GHz

The screenshot displays a spectrum analyzer interface. The main display area shows a noisy signal centered around 15 GHz. A yellow marker labeled '1' is positioned at 16.77467 GHz, indicating a peak at -53.253 dBm. The frequency range is set from 10.000 GHz to 20.000 GHz with a resolution bandwidth of 1.0 MHz and a video bandwidth of 3.0 MHz. The sweep time is 26.67 ms. The interface includes various control panels on the right for Frequency, Auto Tune, Center Freq, Start Freq, Stop Freq, CF Step, and Freq Offset.

■ GSM1900 MODE (810 CH.) Conducted Spurious Emissions1



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 02:24:17 PM Sep 11, 2024

Center Freq 15.00000000 GHz #Avg Type: RMS

PNO: Fast → Trig: Free Run

IFGain:Low #Atten: 20 dB

TRACE 1 2 3 4 5 6

TYPE M W W W W W W W

DET P P P P P P

Mkr1 19.808 75 GHz

-52.911 dBm

10 dB/div Ref 10.00 dBm

Log

0.00

-10.0

-20.0

-30.0

-40.0

-50.0

-60.0

-70.0

-80.0

Start 10.000 GHz **Stop 20.000 GHz**

#Res BW 1.0 MHz **#VBW 3.0 MHz** **Sweep 26.67 ms (40000 pts)**

Frequency

Auto Tune

Center Freq
15.00000000 GHz

Start Freq
10.00000000 GHz

Stop Freq
20.00000000 GHz

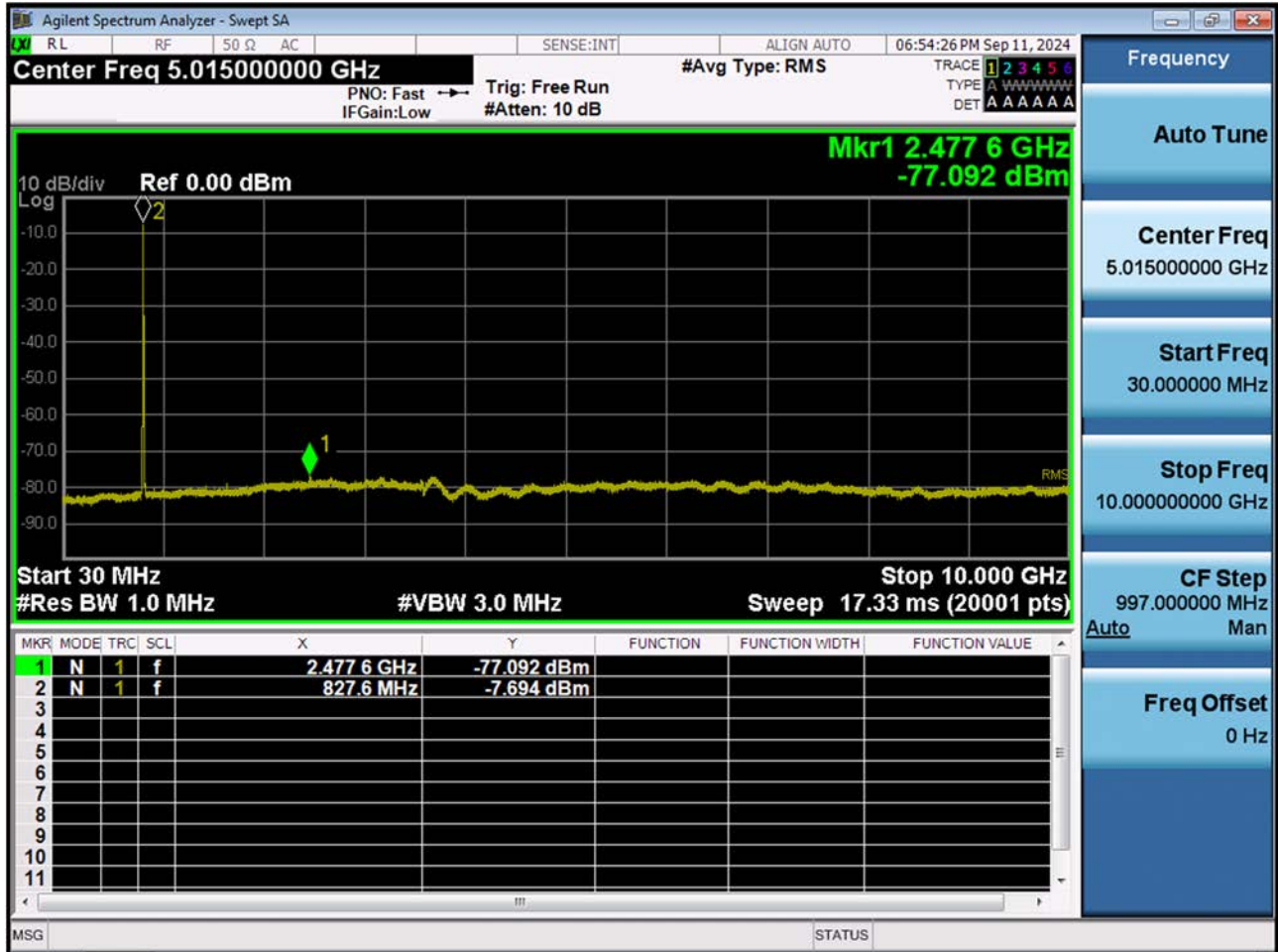
CF Step
1.00000000 GHz

Auto **Man**

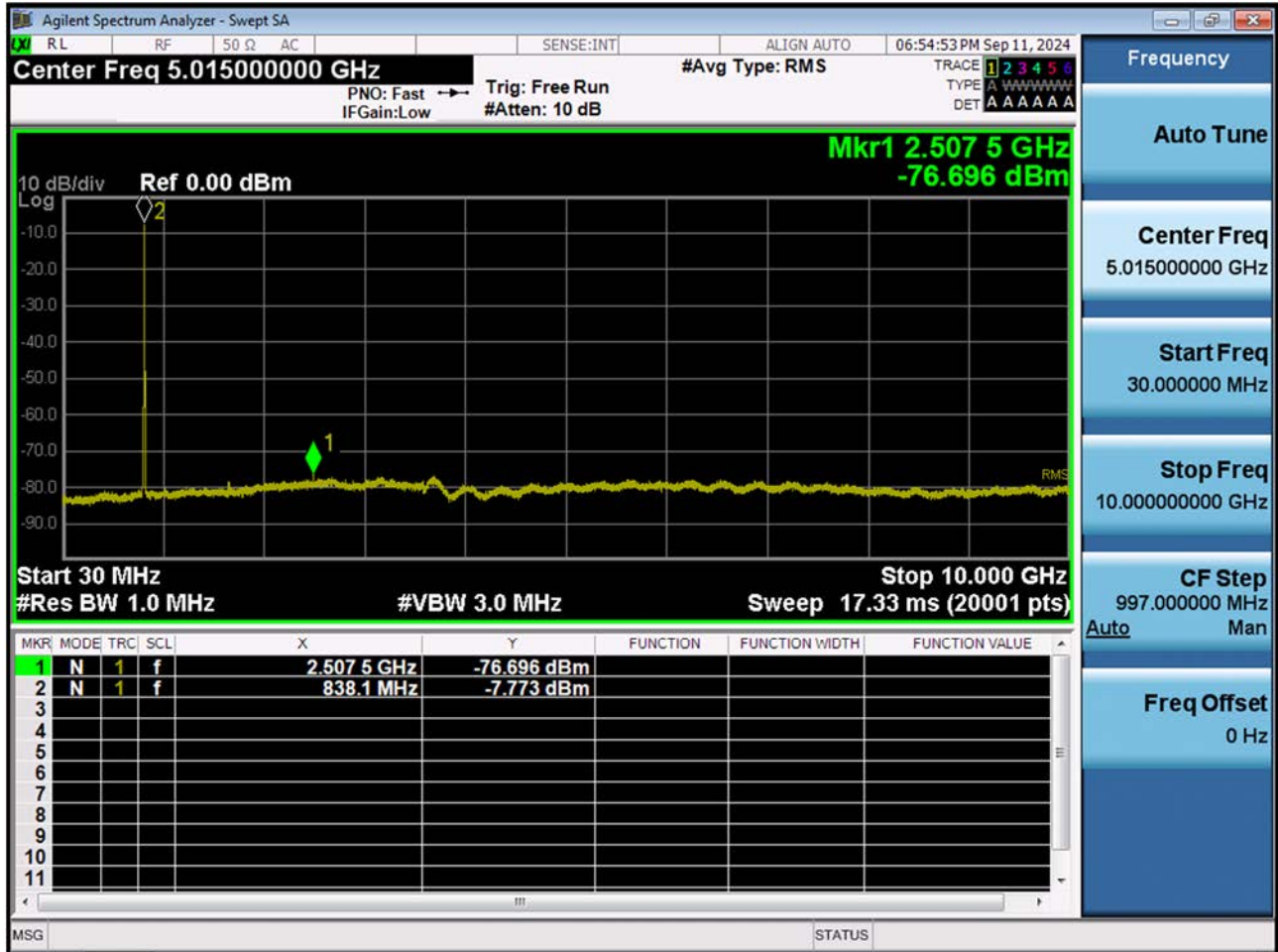
Freq Offset
0 Hz

MSG STATUS

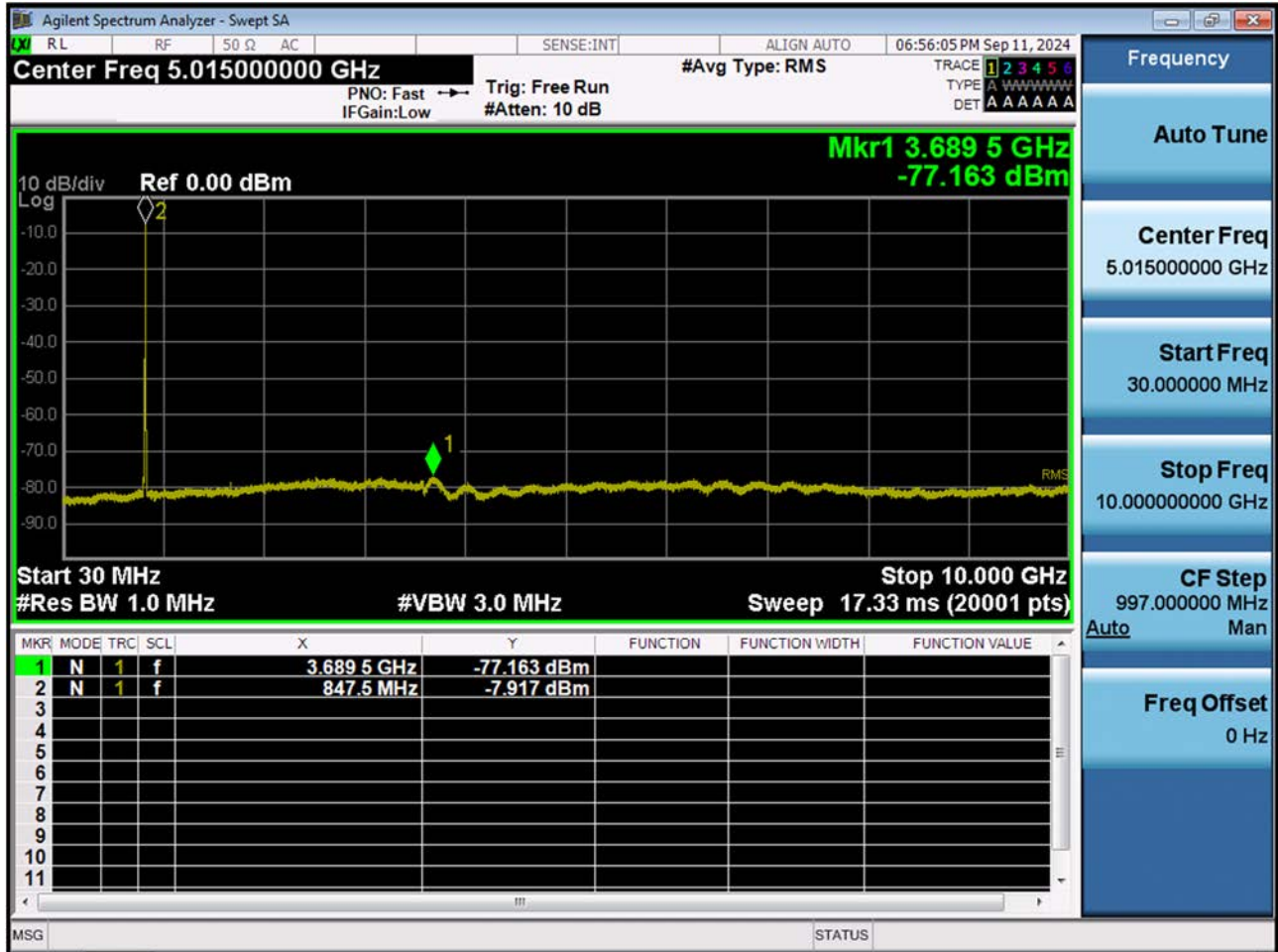
■ WCDMA850 MODE (4132 CH.) Conducted Spurious Emissions



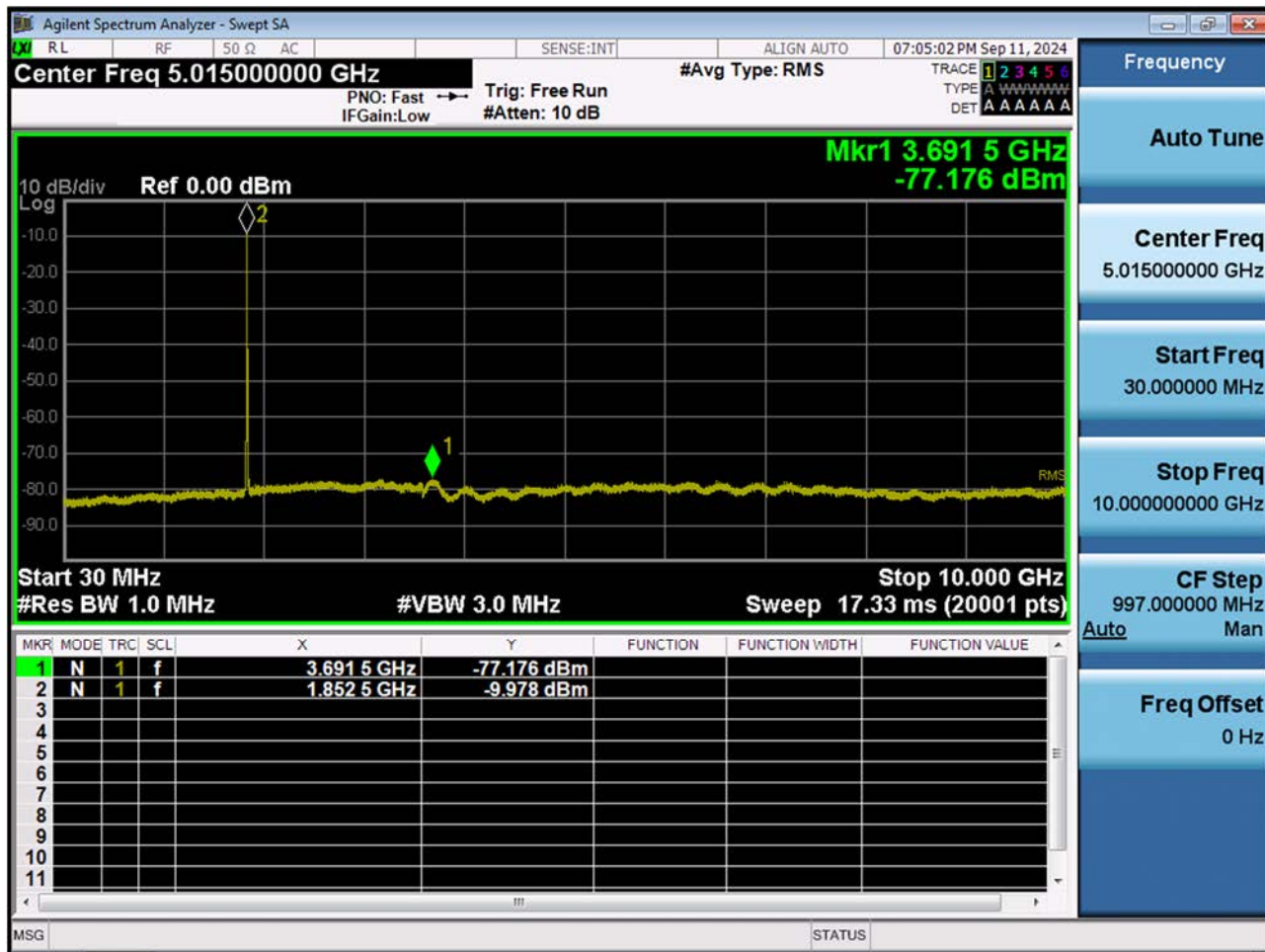
■ WCDMA850 MODE (4183 CH.) Conducted Spurious Emissions



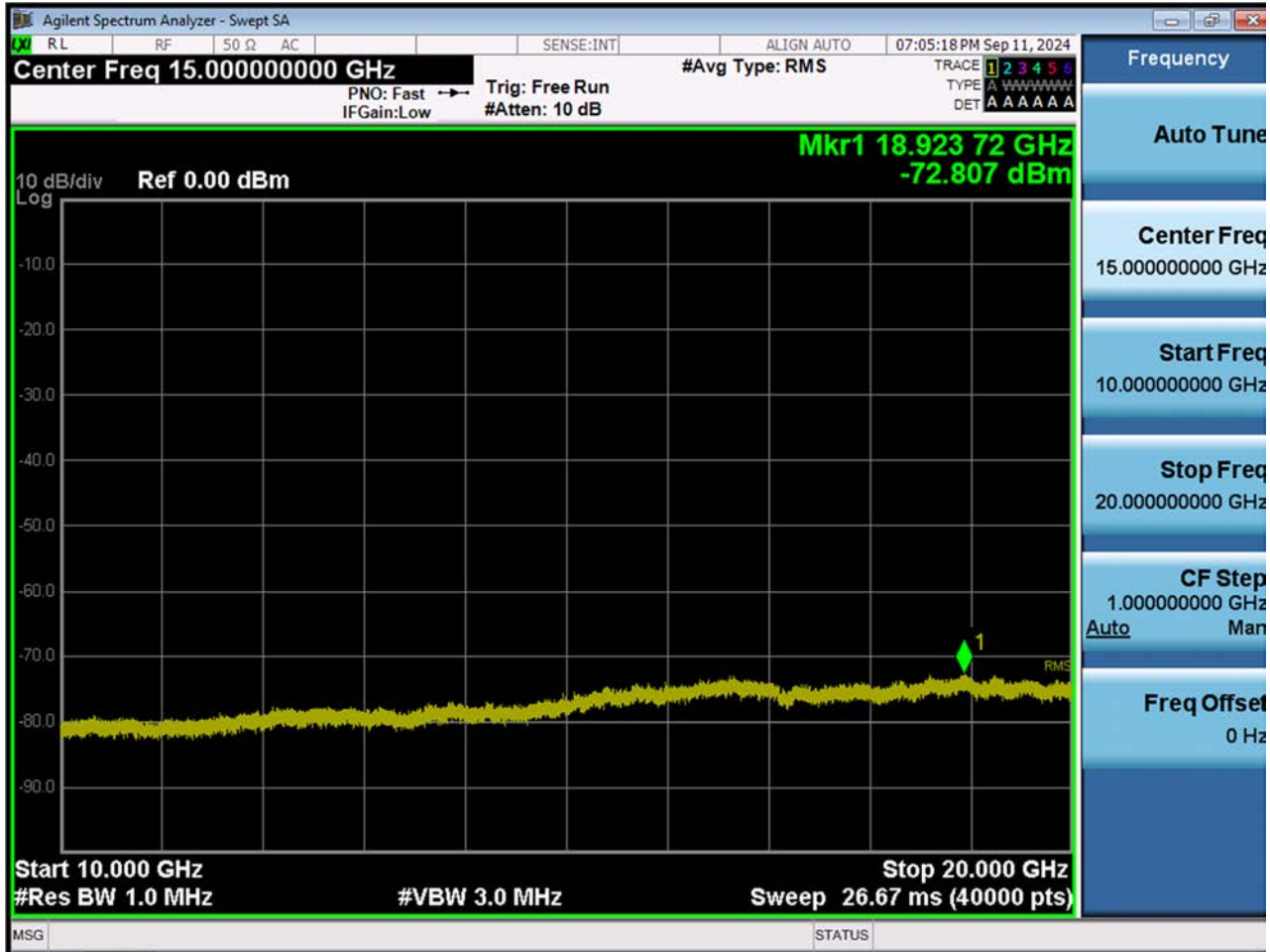
■ WCDMA850MODE (4233 CH.) Conducted Spurious Emissions



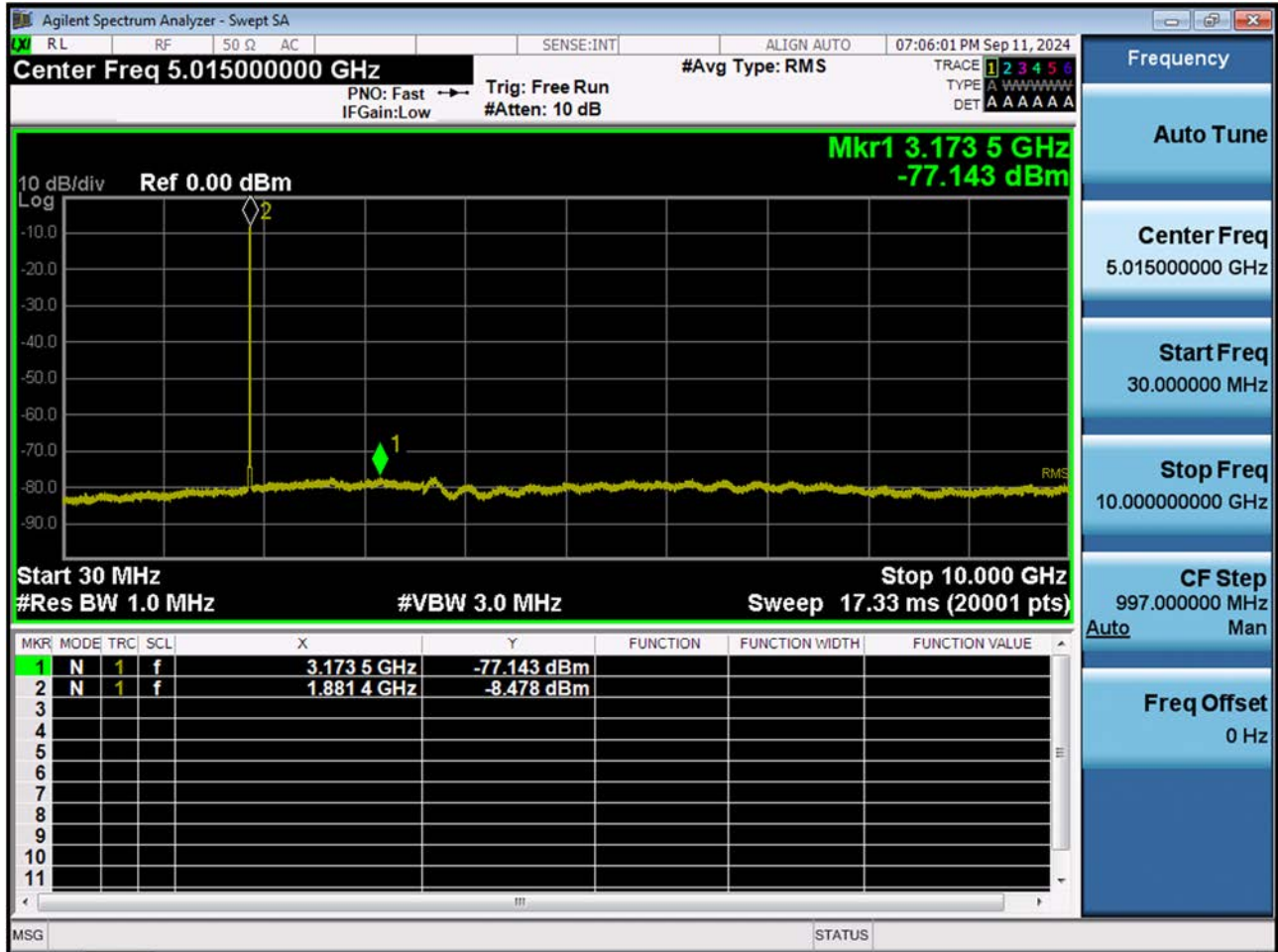
■ WCDMA1900 MODE (9262 CH.) Conducted Spurious Emissions1



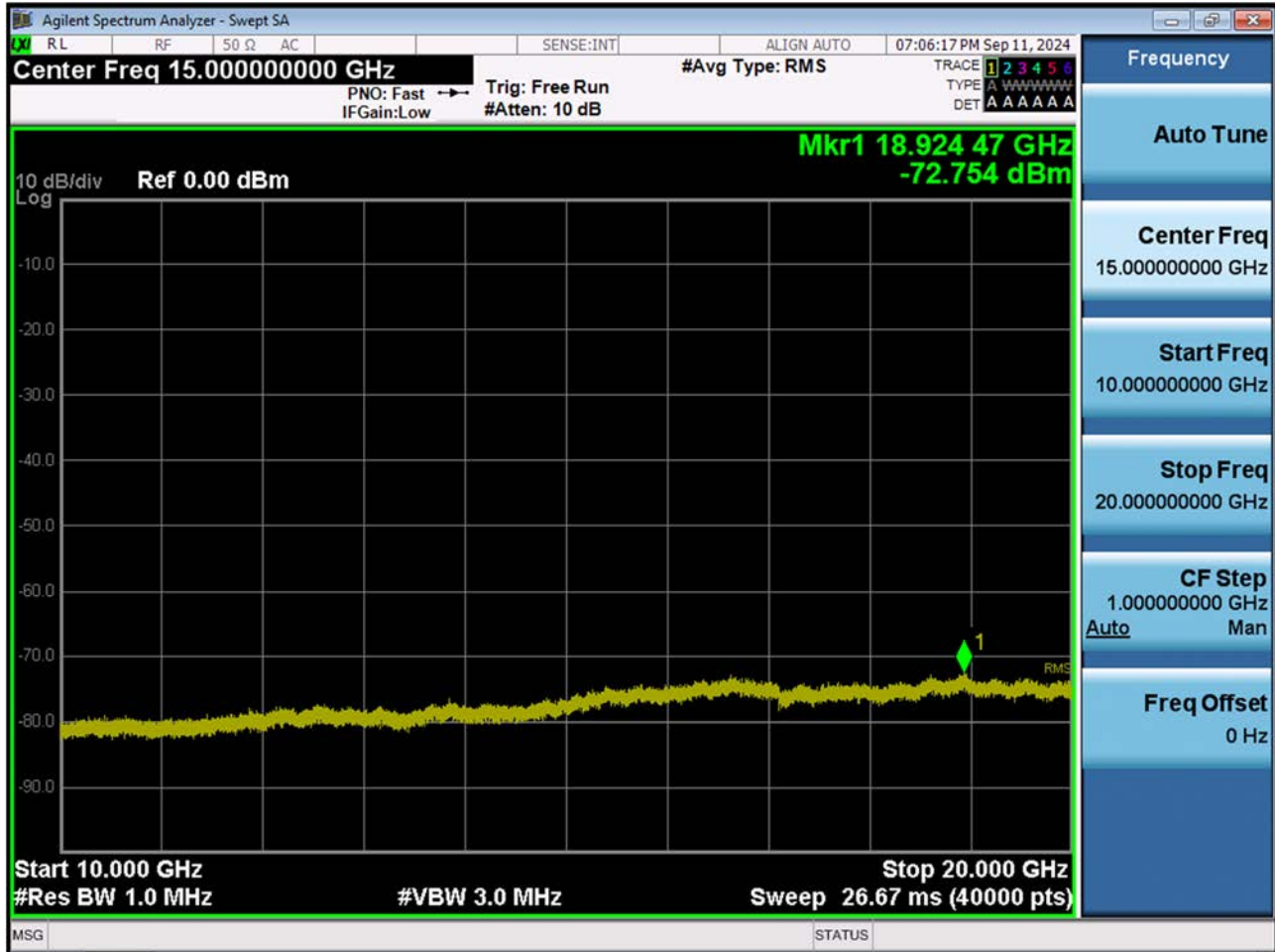
■ WCDMA1900 MODE (9262 CH.) Conducted Spurious Emissions2



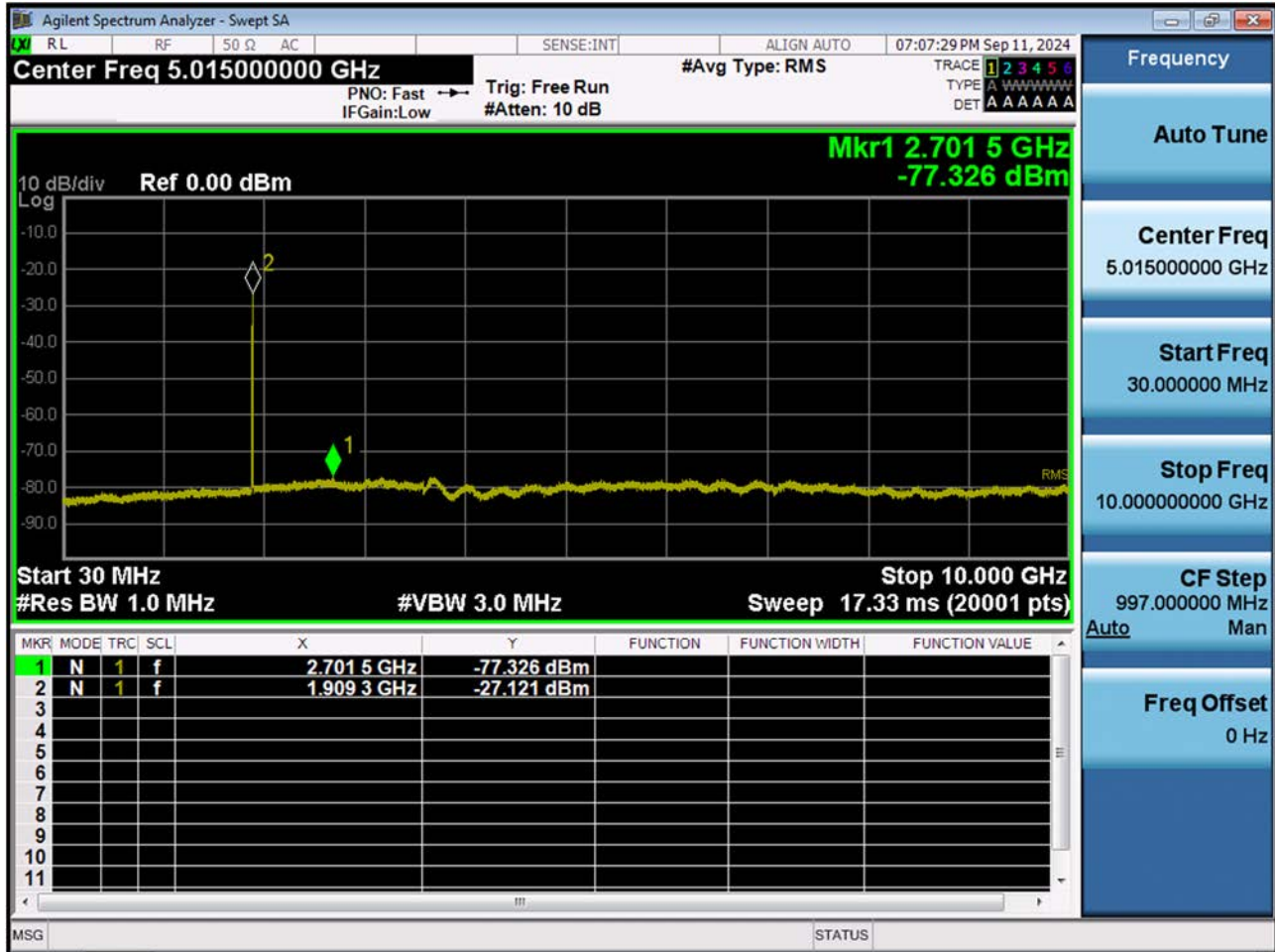
■ WCDMA1900 MODE (9400 CH.) Conducted Spurious Emissions1



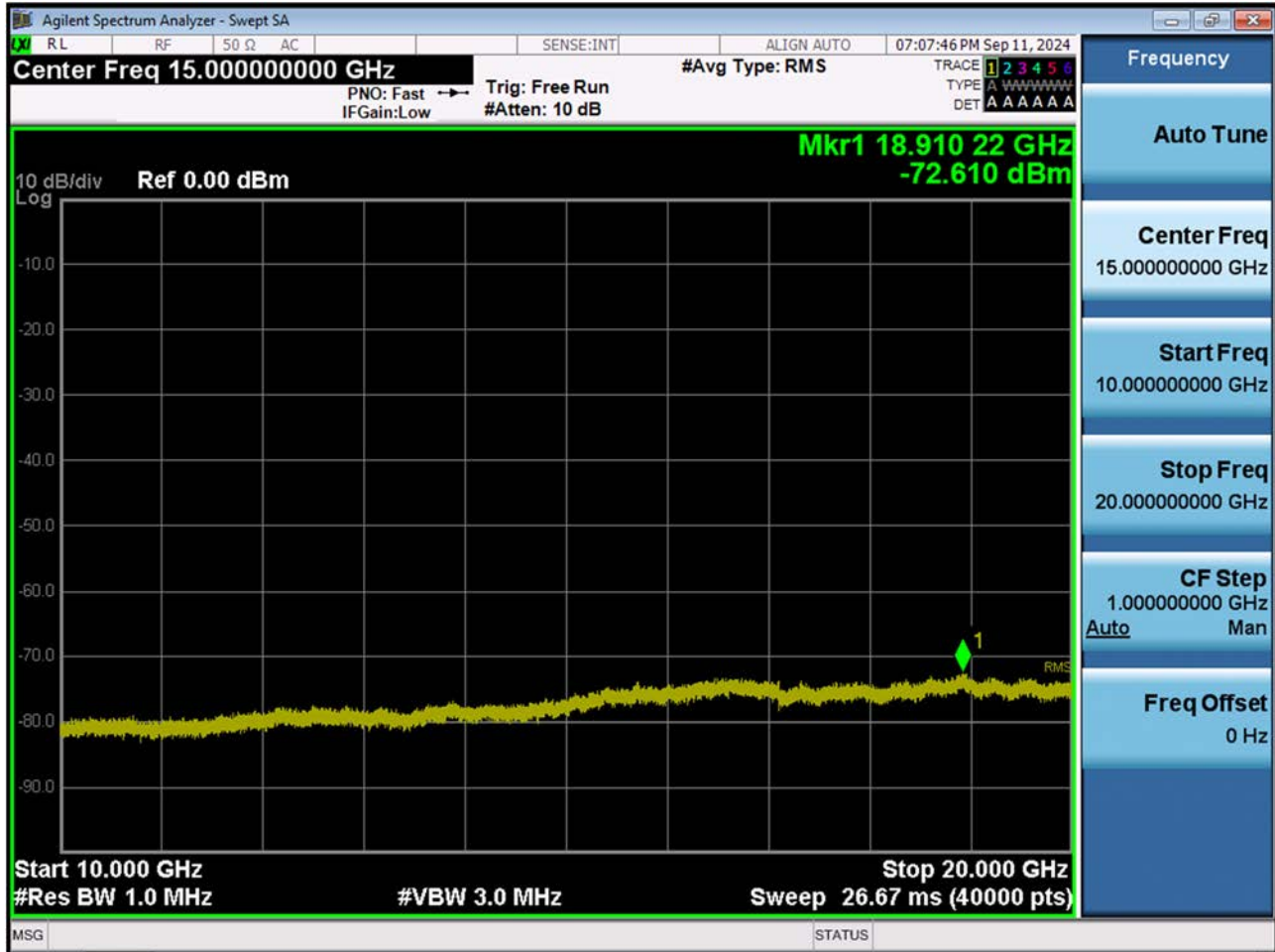
■ WCDMA1900 MODE (9400 CH.) Conducted Spurious Emissions2



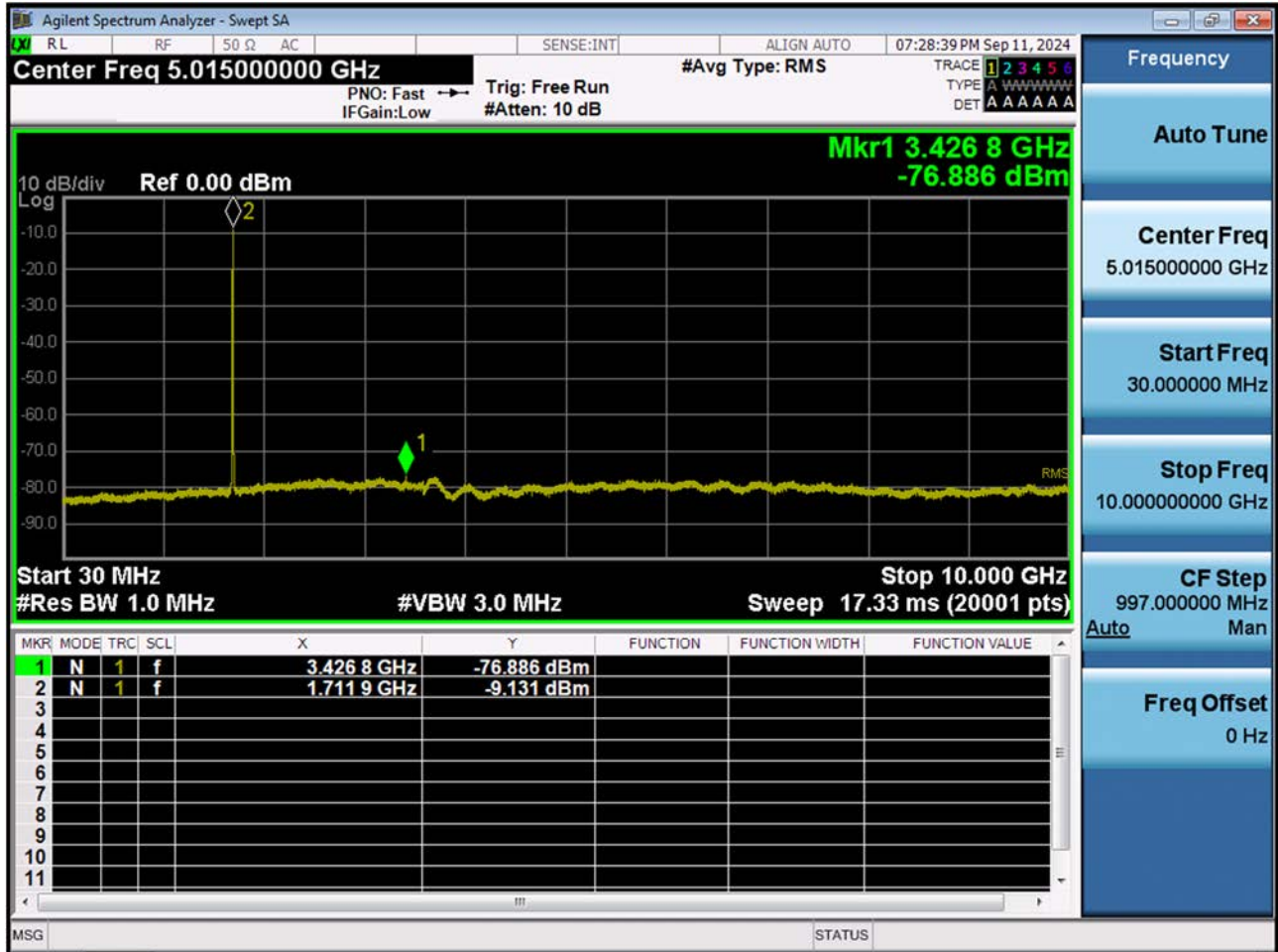
■ WCDMA1900 MODE (9538 CH.) Conducted Spurious Emissions1



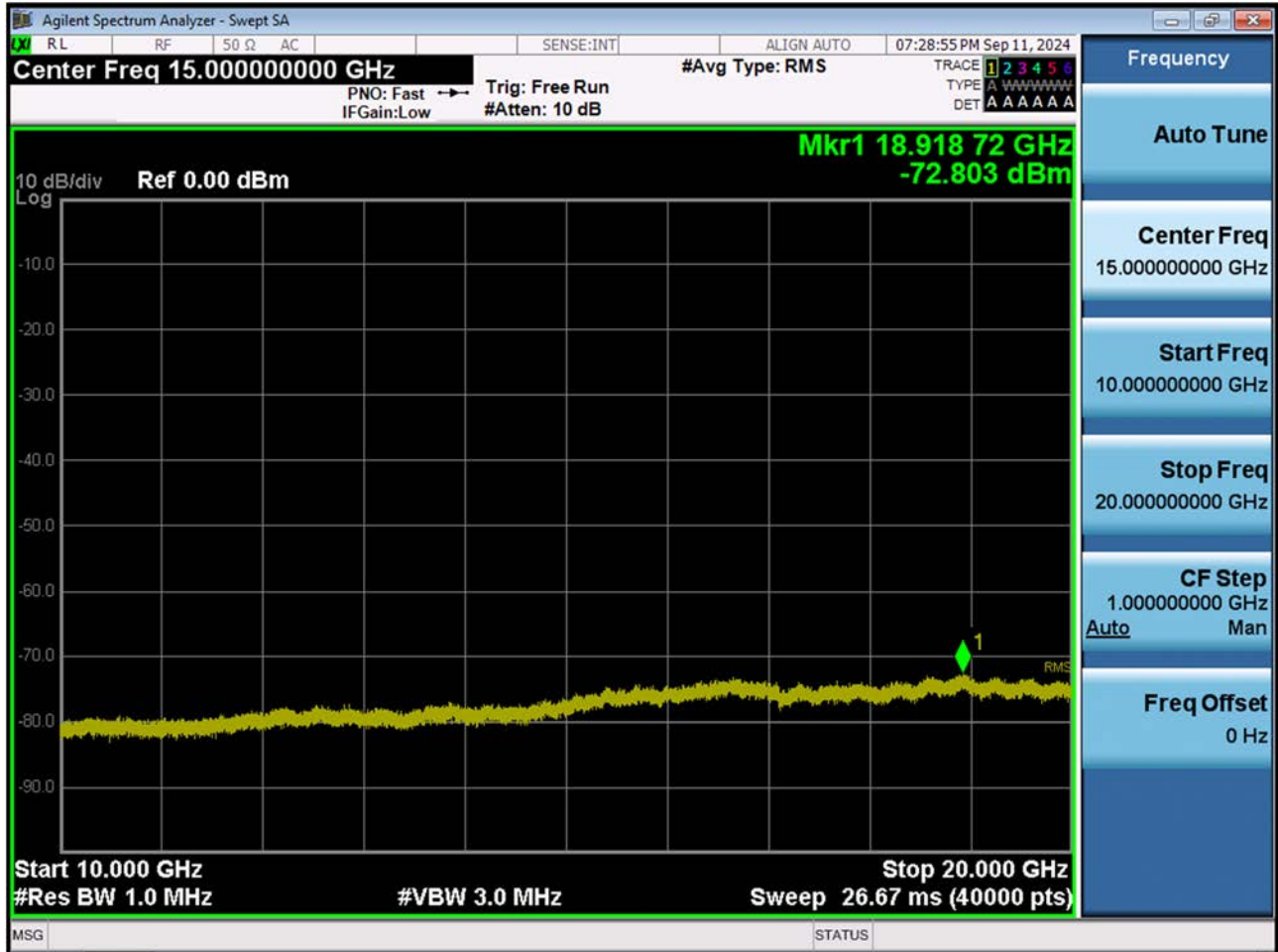
■ WCDMA1900 MODE (9538 CH.) Conducted Spurious Emissions2



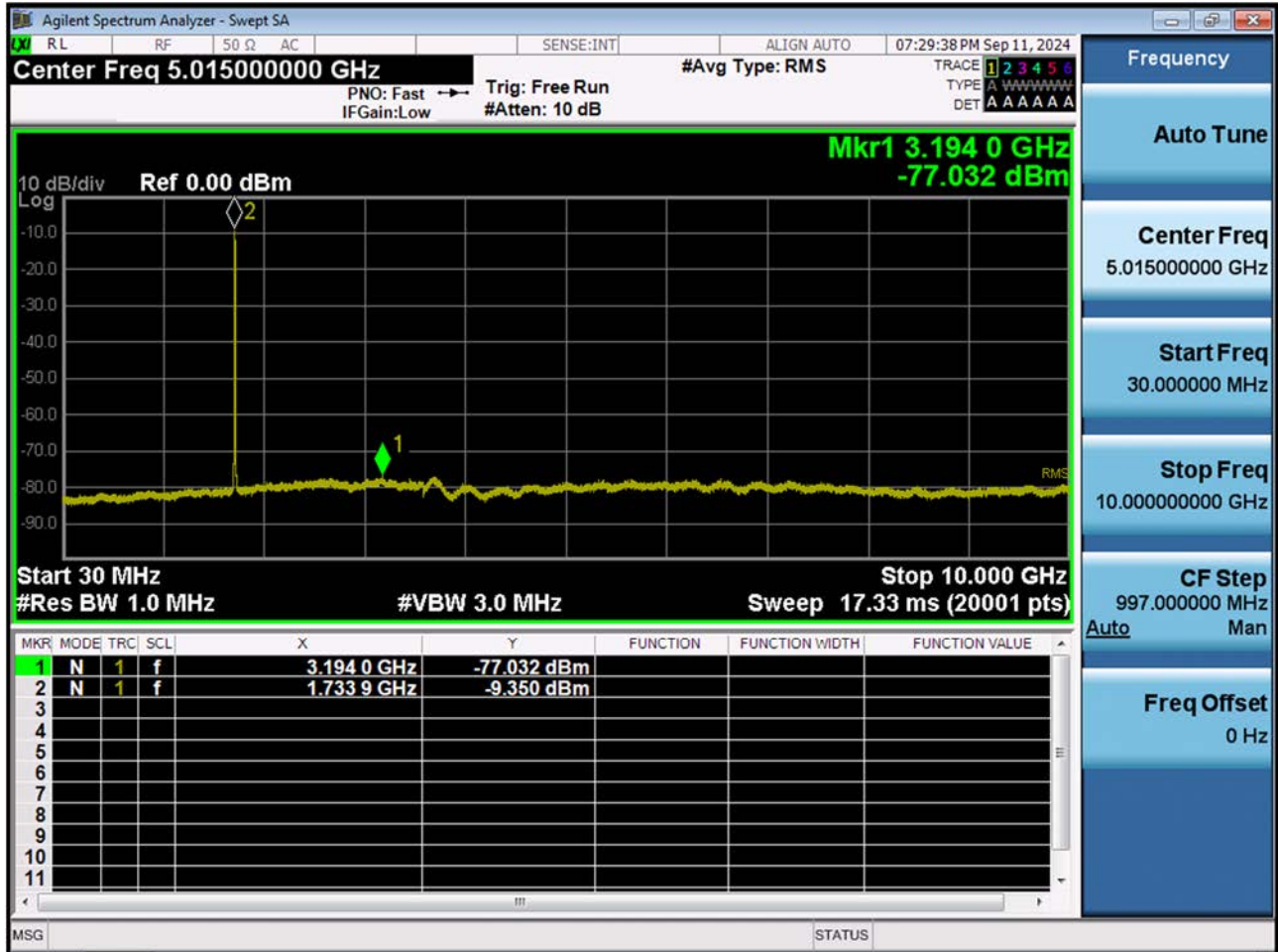
■ WCDMA1700 MODE (1312 CH.) Conducted Spurious Emissions1



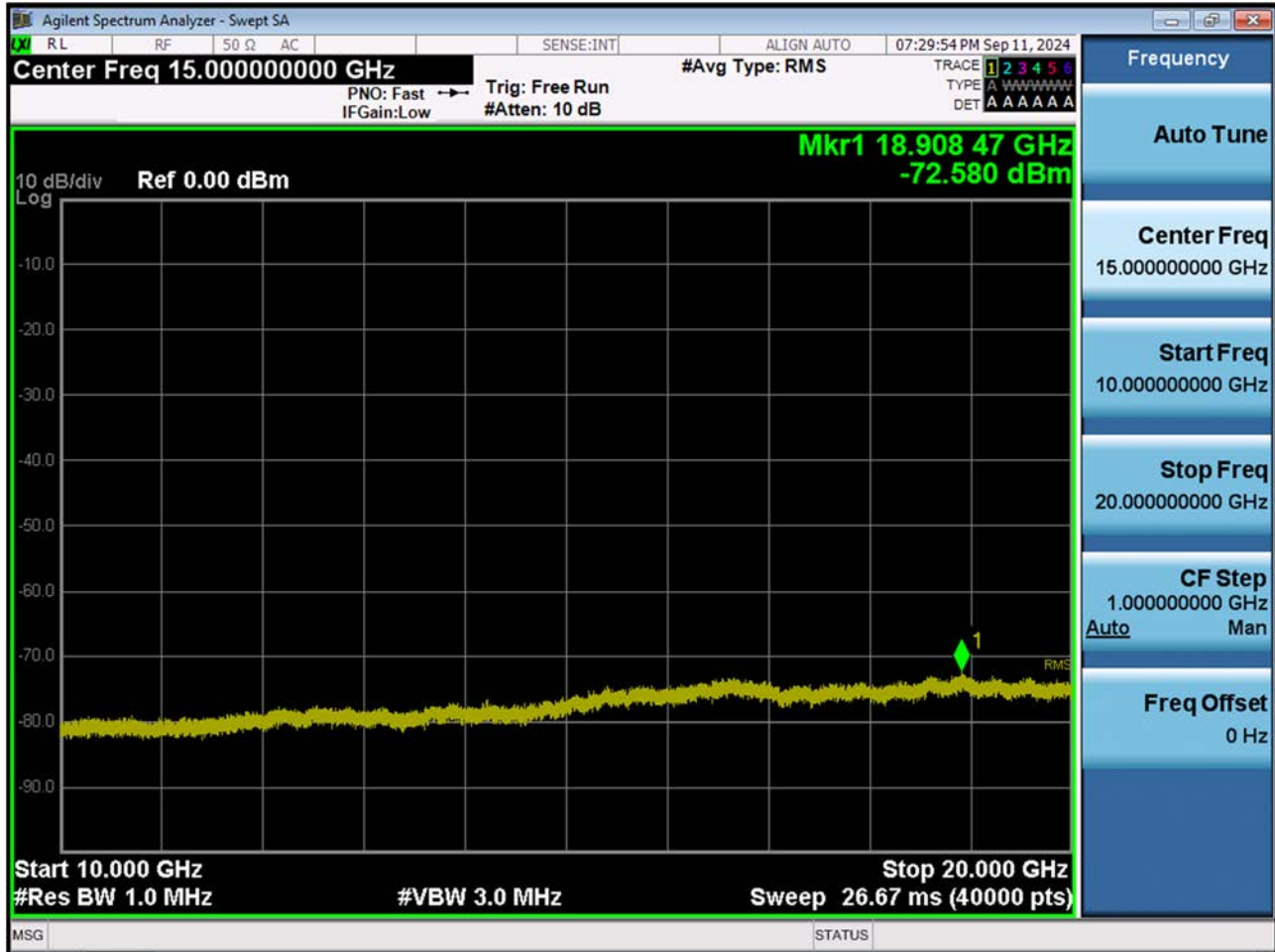
■ WCDMA1700 MODE (1312 CH.) Conducted Spurious Emissions2



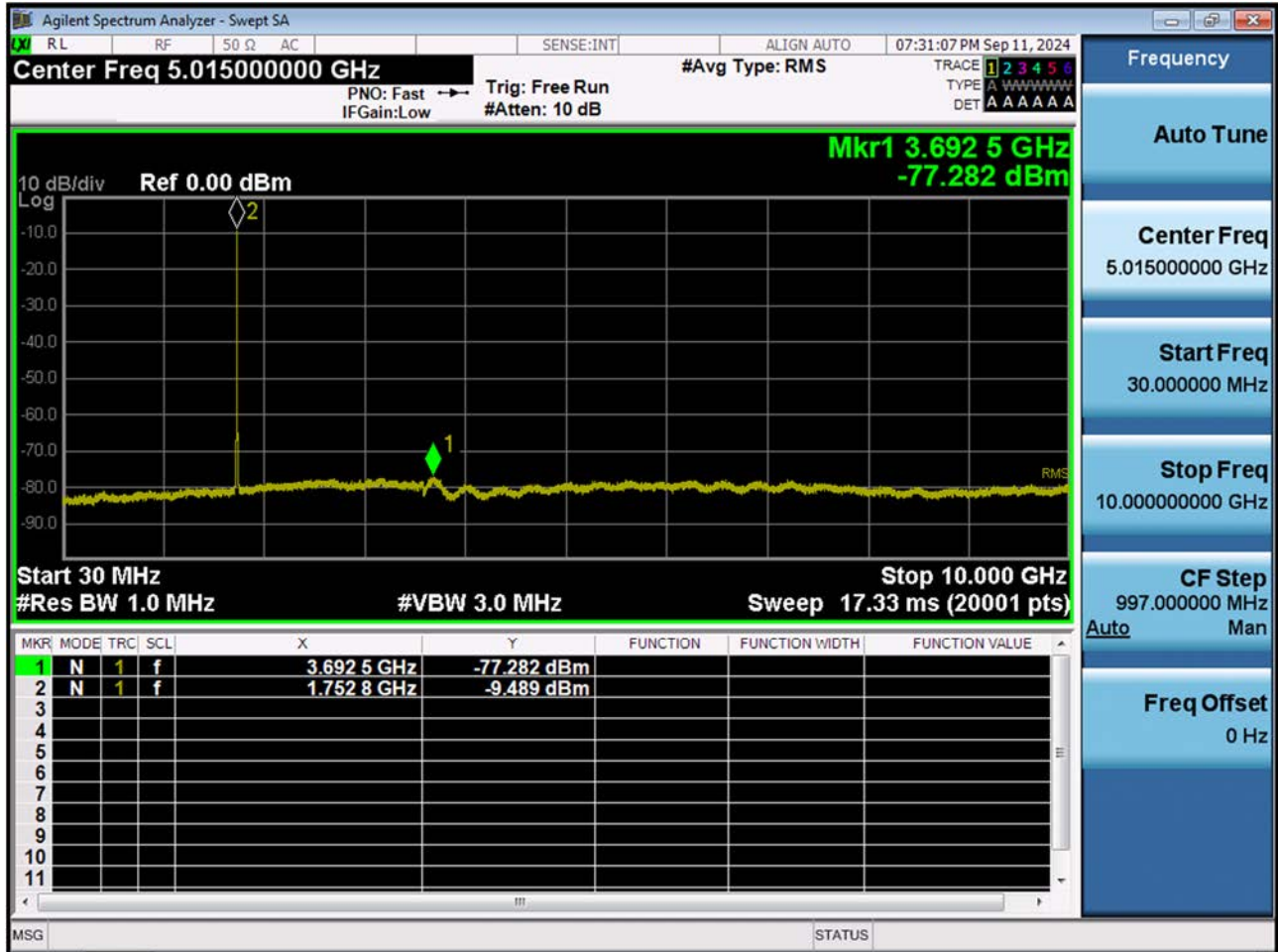
■ WCDMA1700 MODE (1412 CH.) Conducted Spurious Emissions1



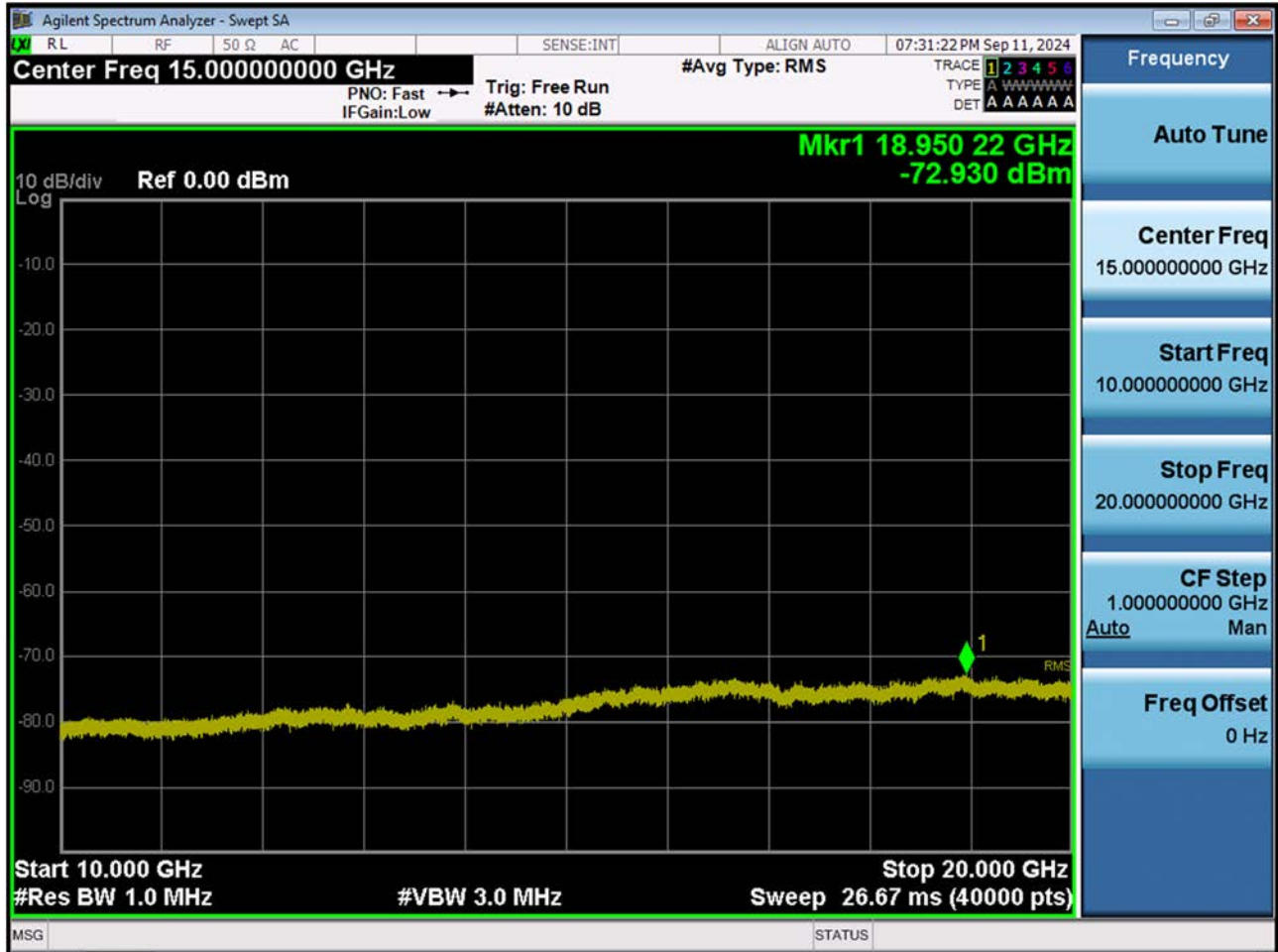
■ WCDMA1700 MODE (1412 CH.) Conducted Spurious Emissions2



■ WCDMA1700 MODE (1513 CH.) Conducted Spurious Emissions1

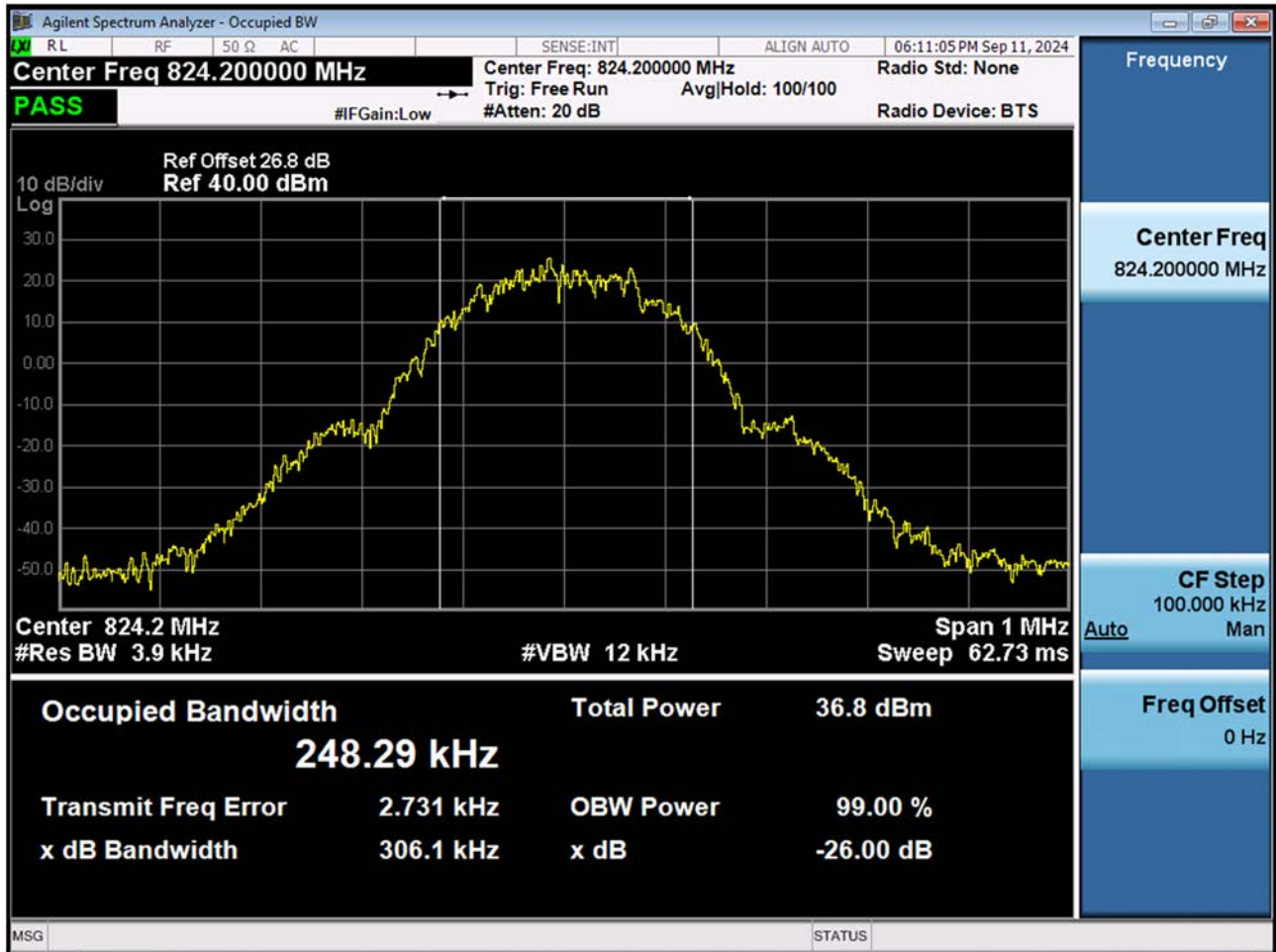


■ WCDMA1700 MODE (1513 CH.) Conducted Spurious Emissions2

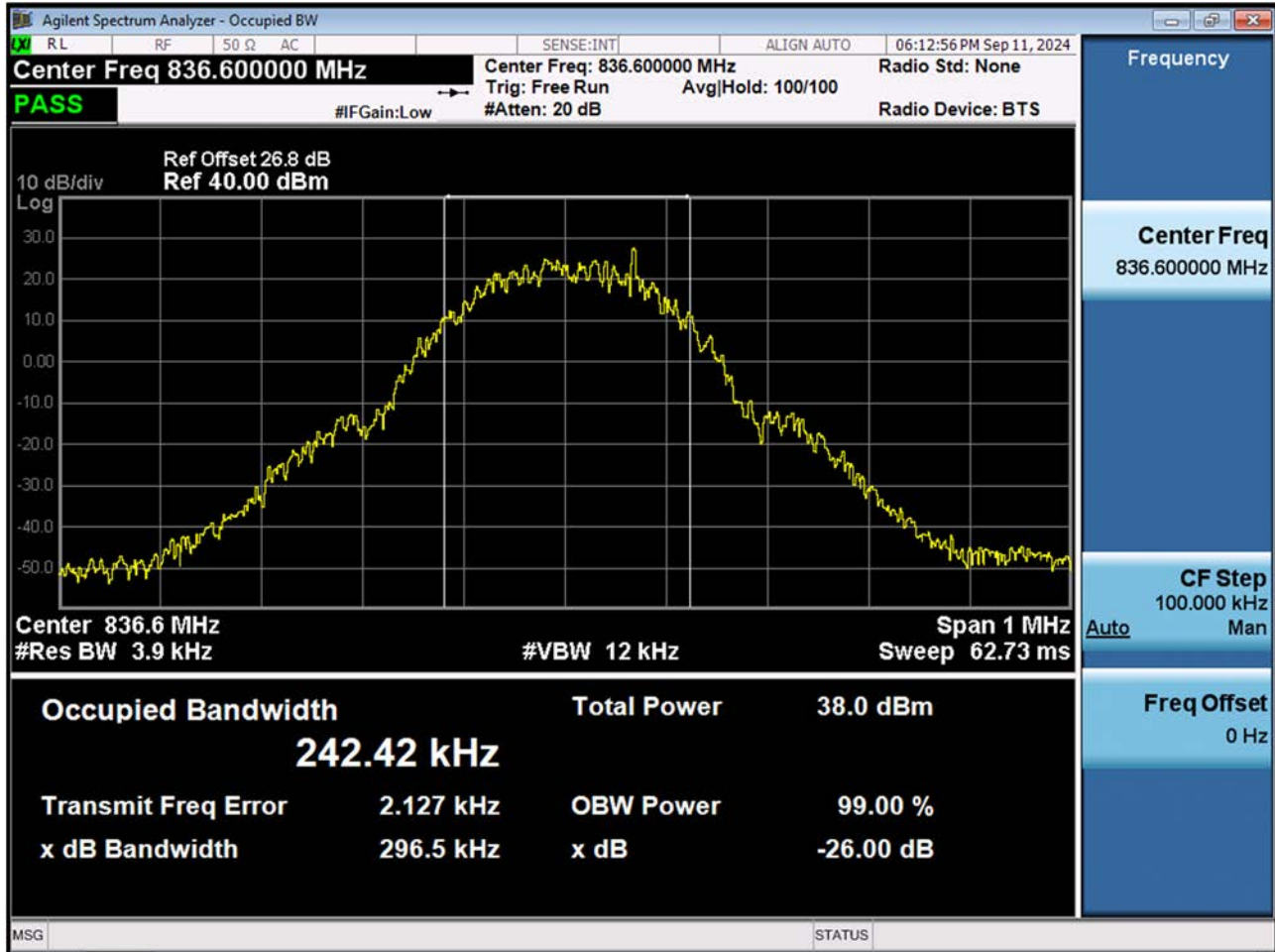


11. TEST PLOTS(Sub 1 ANT)

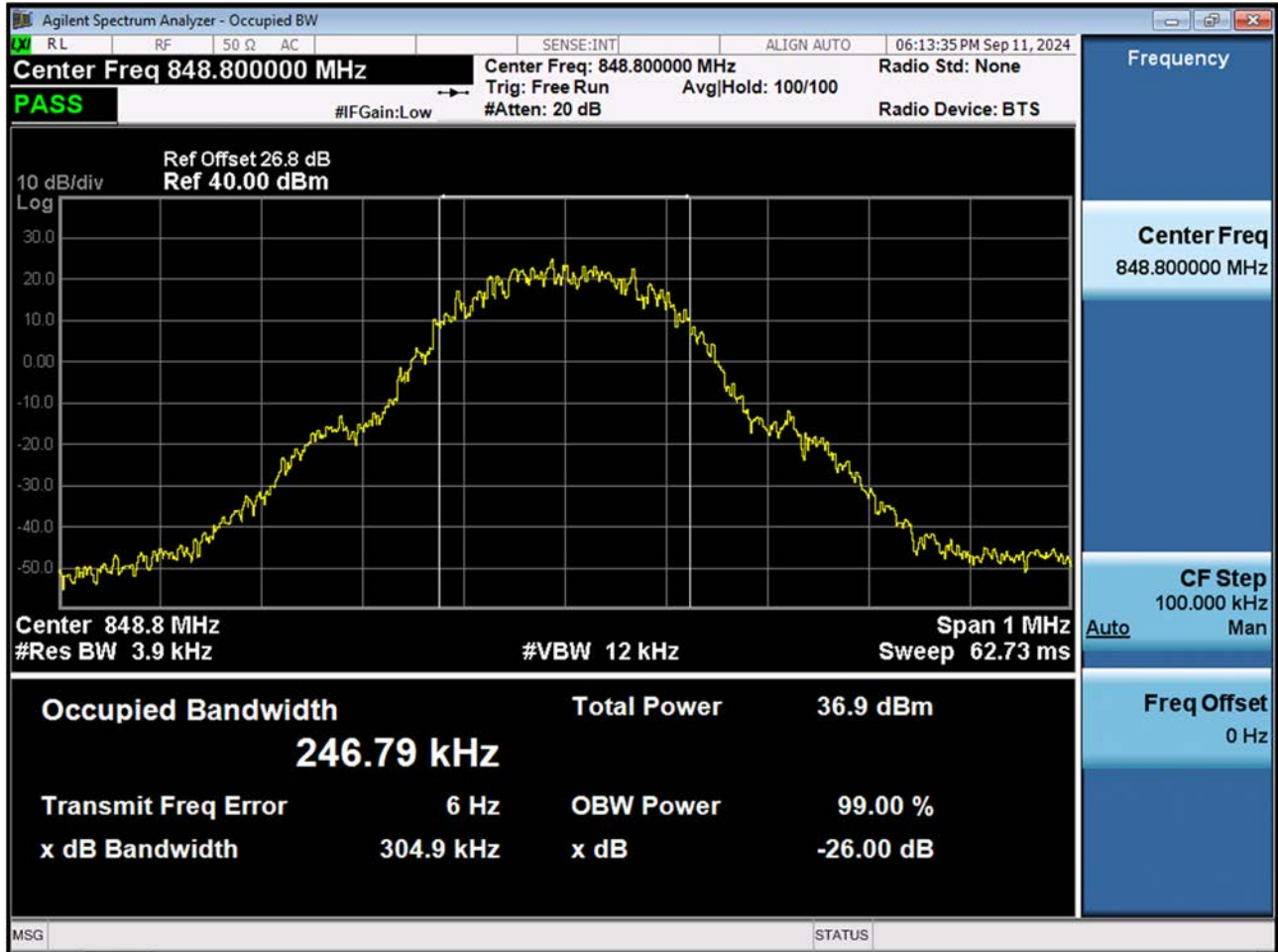
■ GSM850 MODE (128 CH.) Occupied Bandwidth



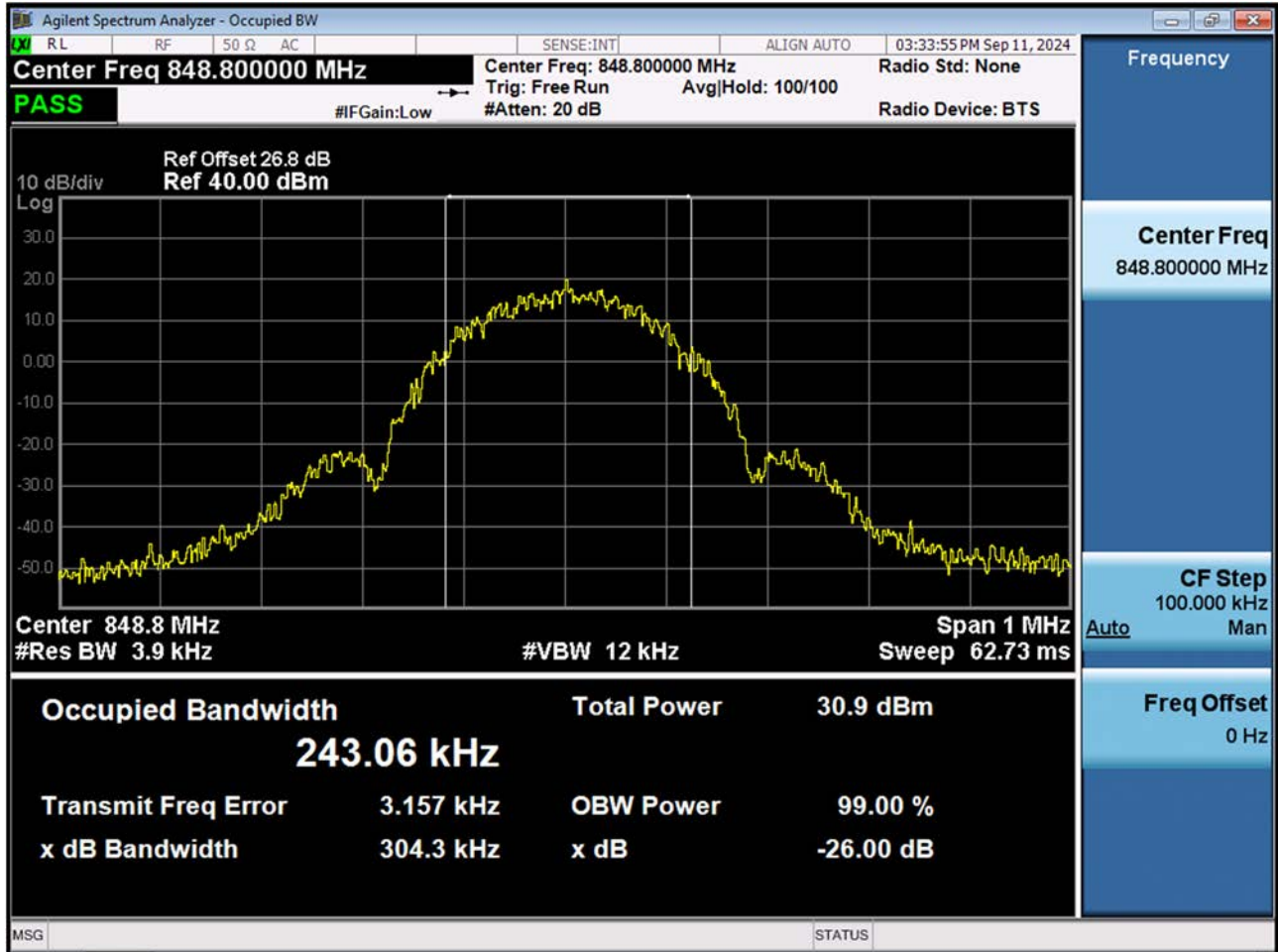
■ GSM850 MODE (190 CH.) Occupied Bandwidth



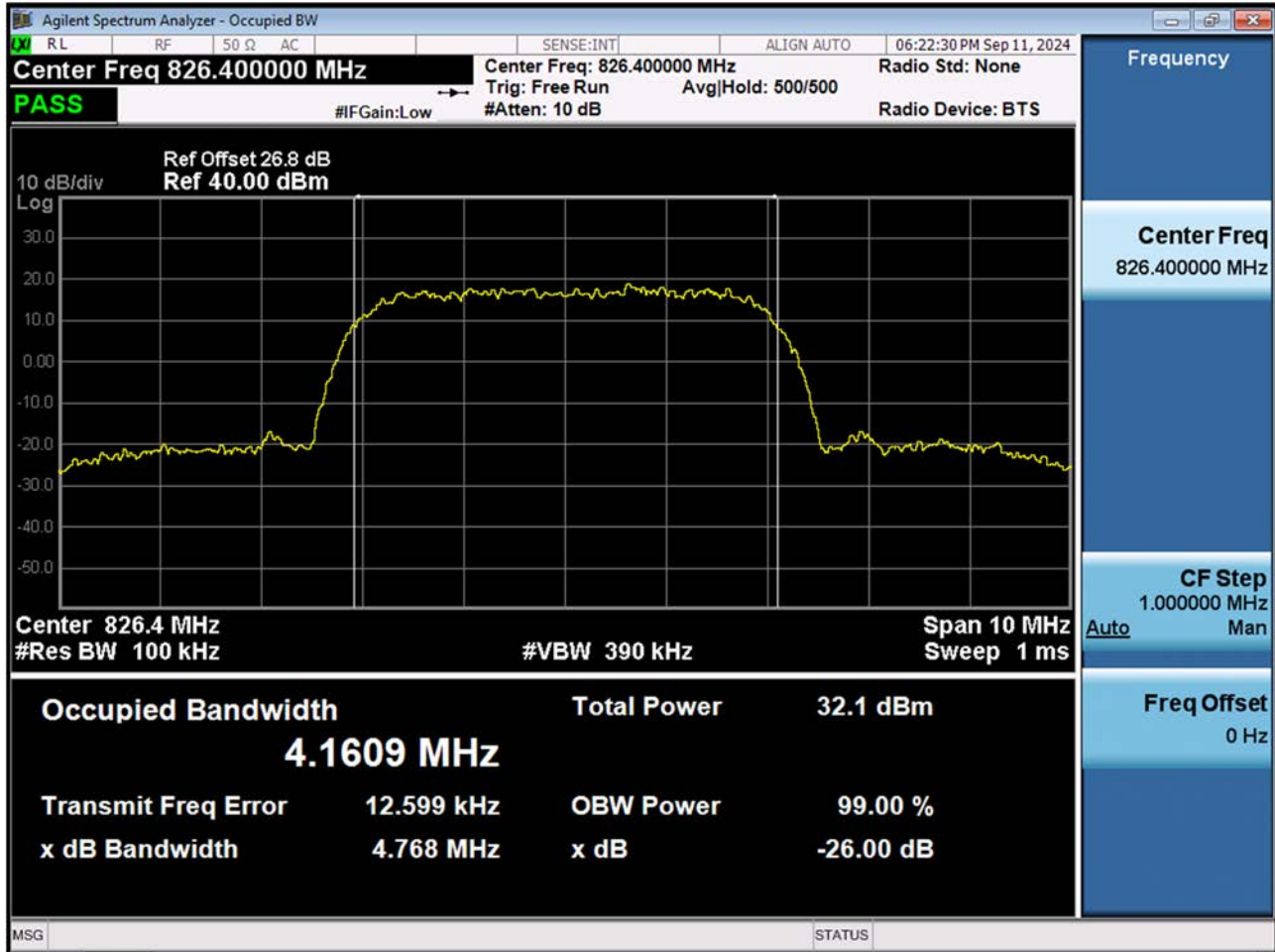
■ GSM850 MODE (251 CH.) Occupied Bandwidth



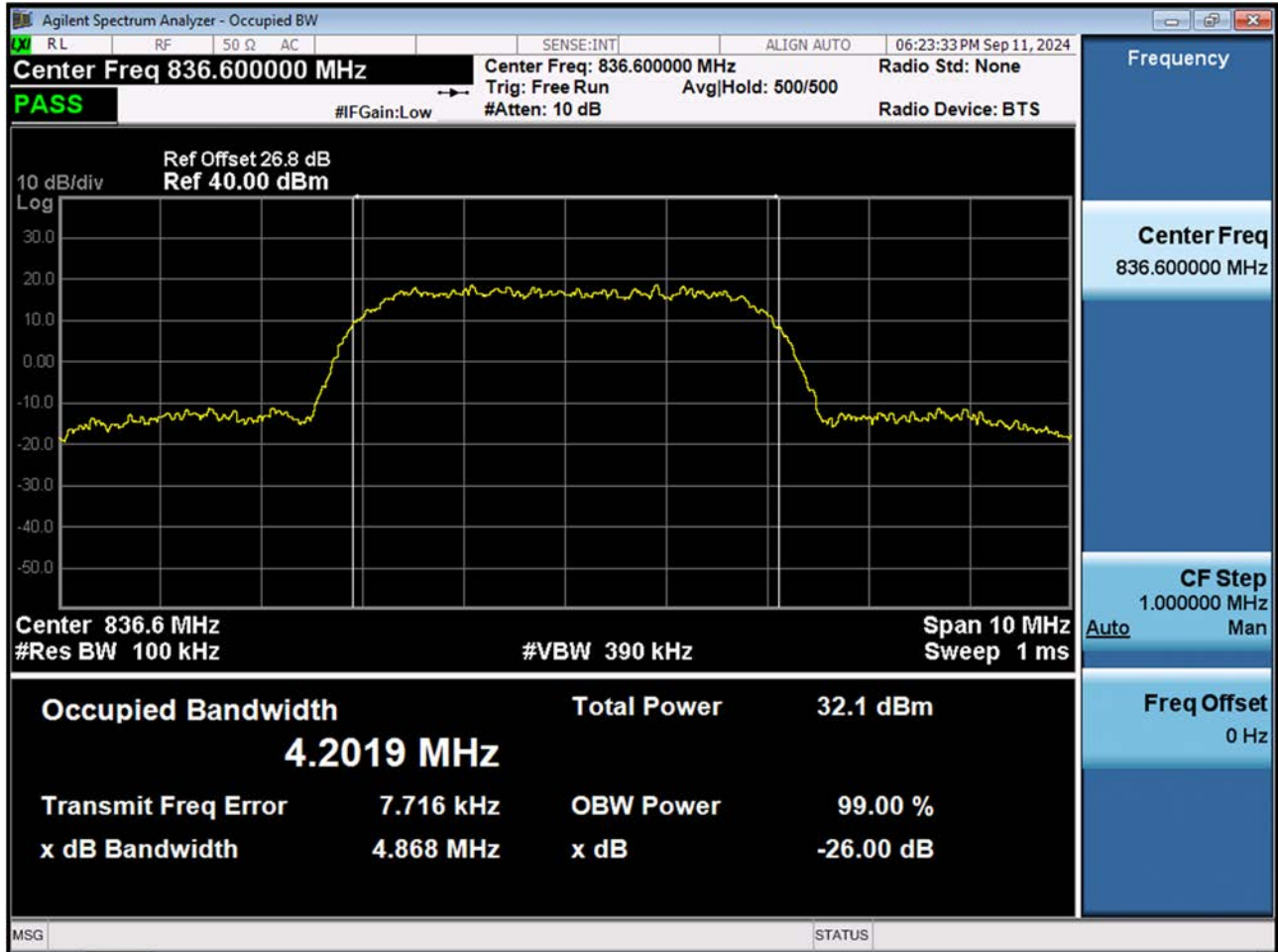
■ GSM850 EDGE (251 CH.) Occupied Bandwidth



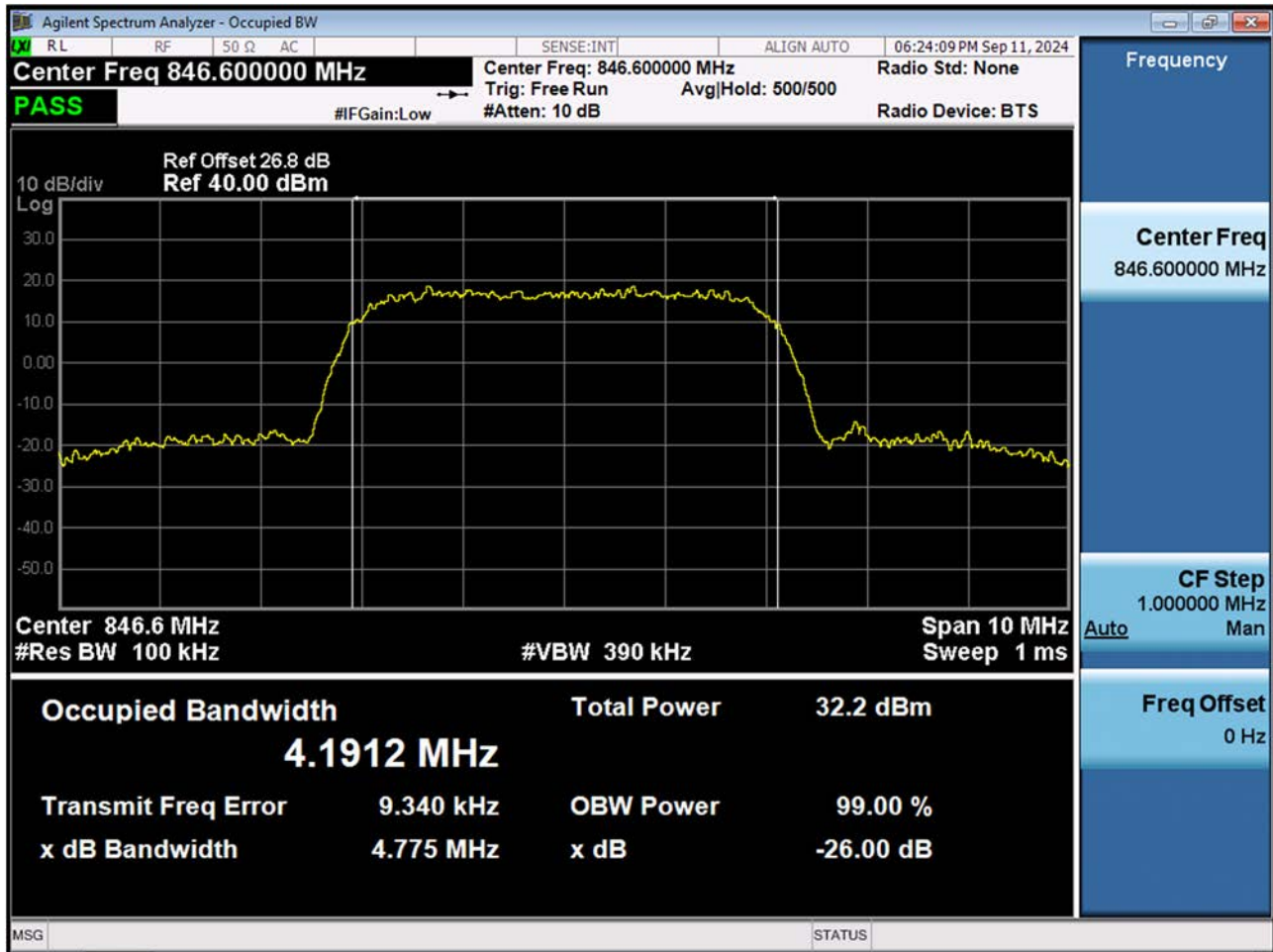
■ WCDMA850 MODE (4132 CH.) Occupied Bandwidth



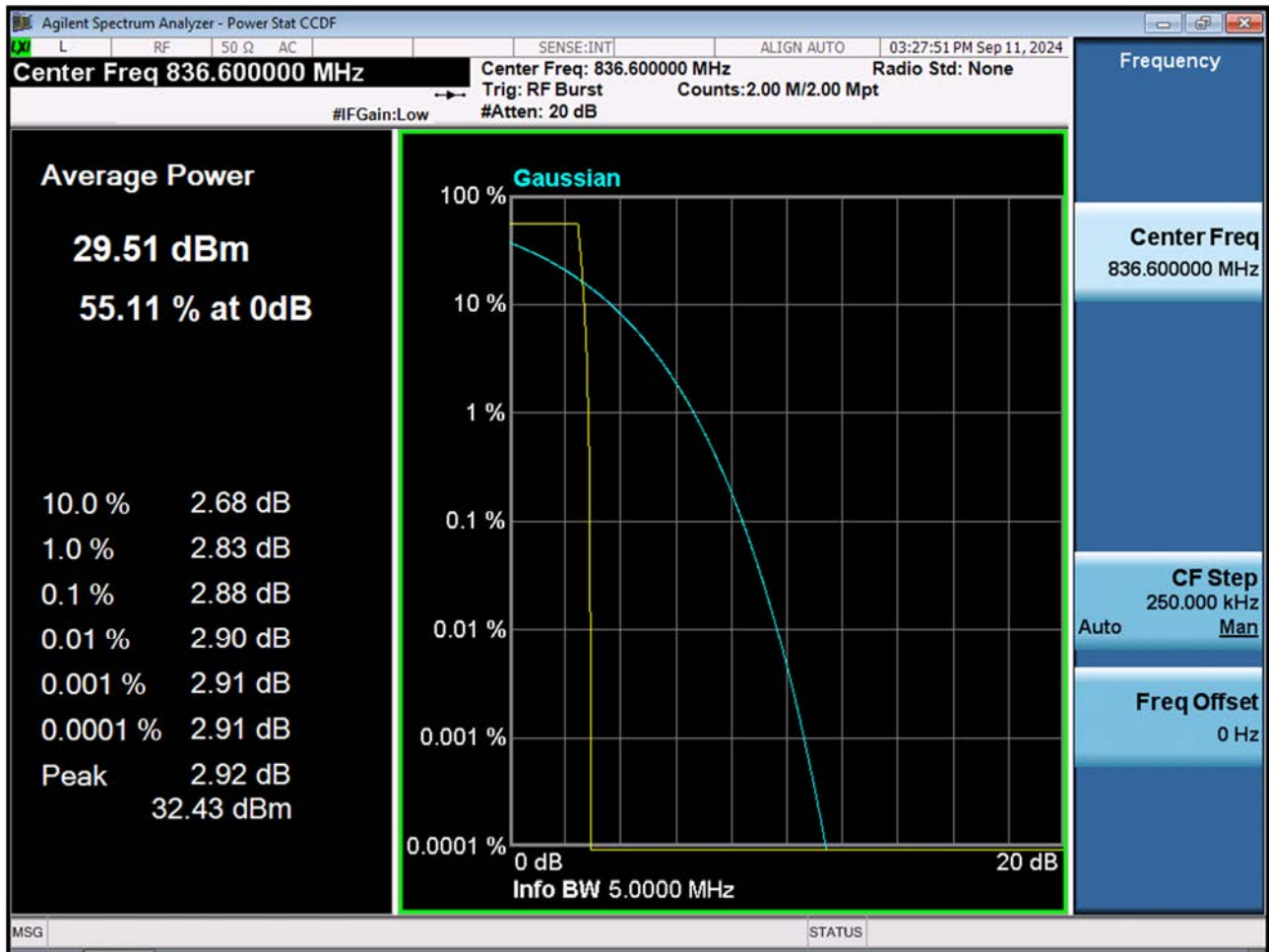
■ WCDMA850 MODE (4183 CH.) Occupied Bandwidth



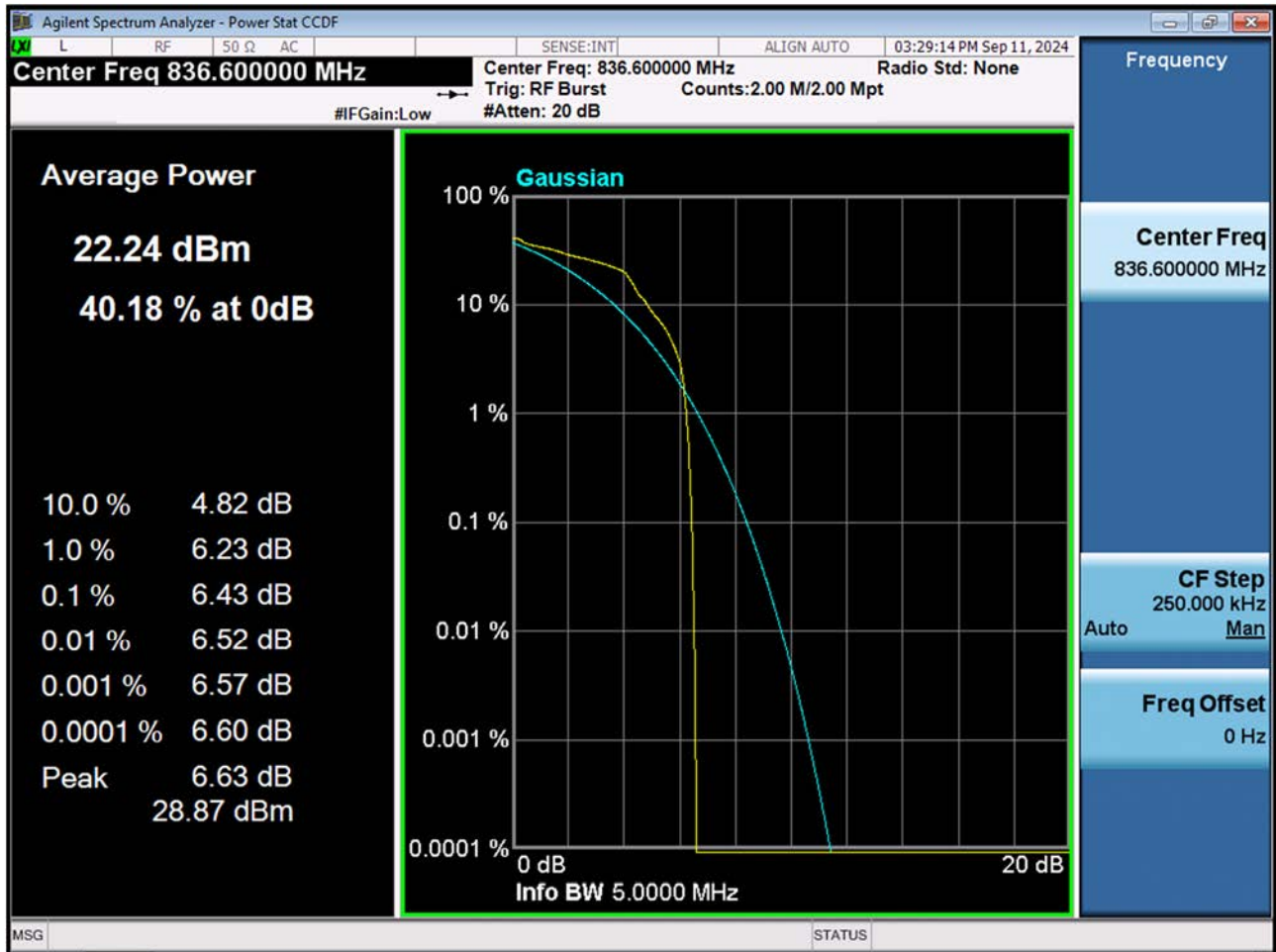
■ WCDMA850MODE (4233 CH.) Occupied Bandwidth



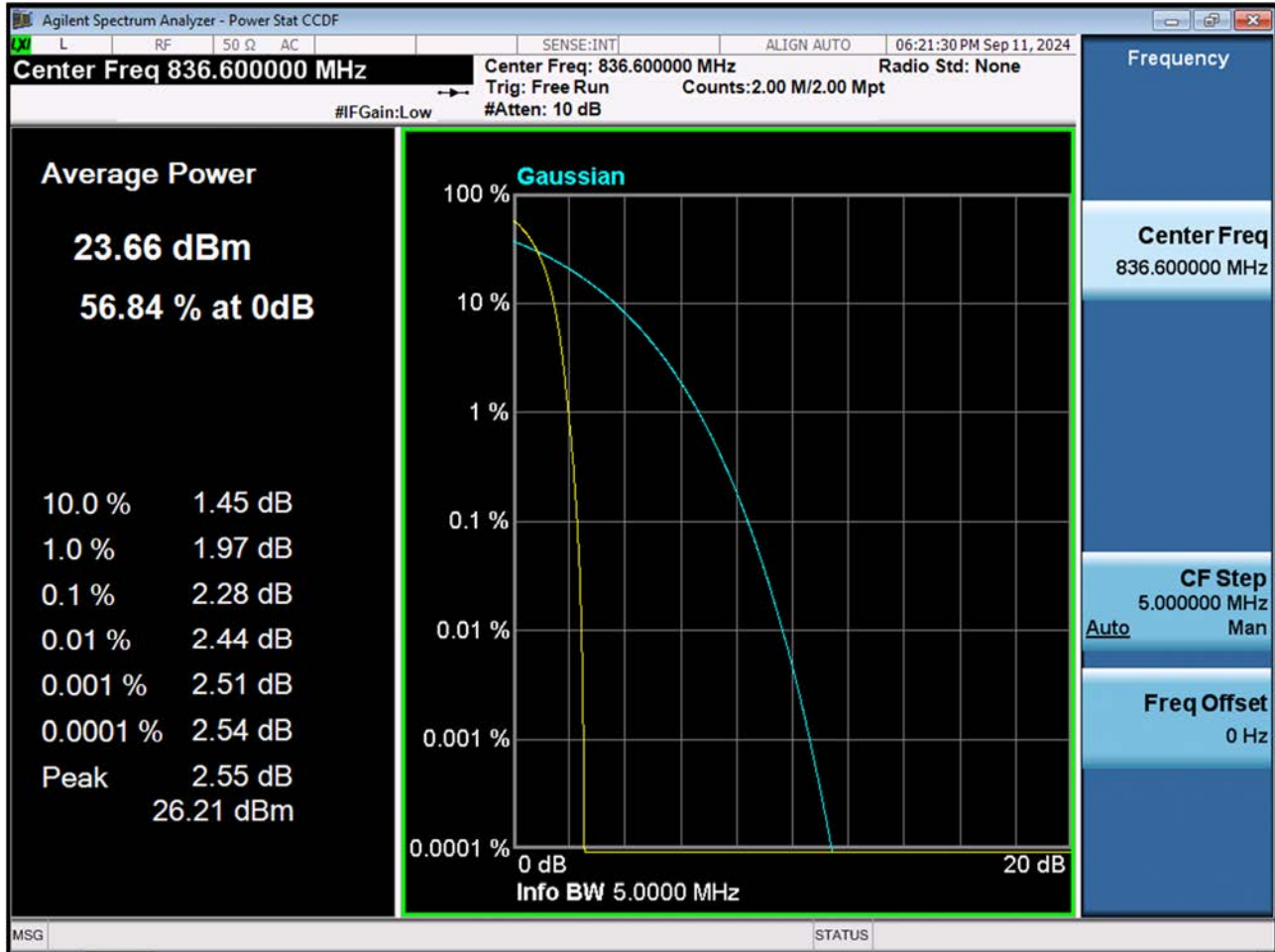
■ GSM850 MODE (190 CH.) Peak-to-Average Ratio



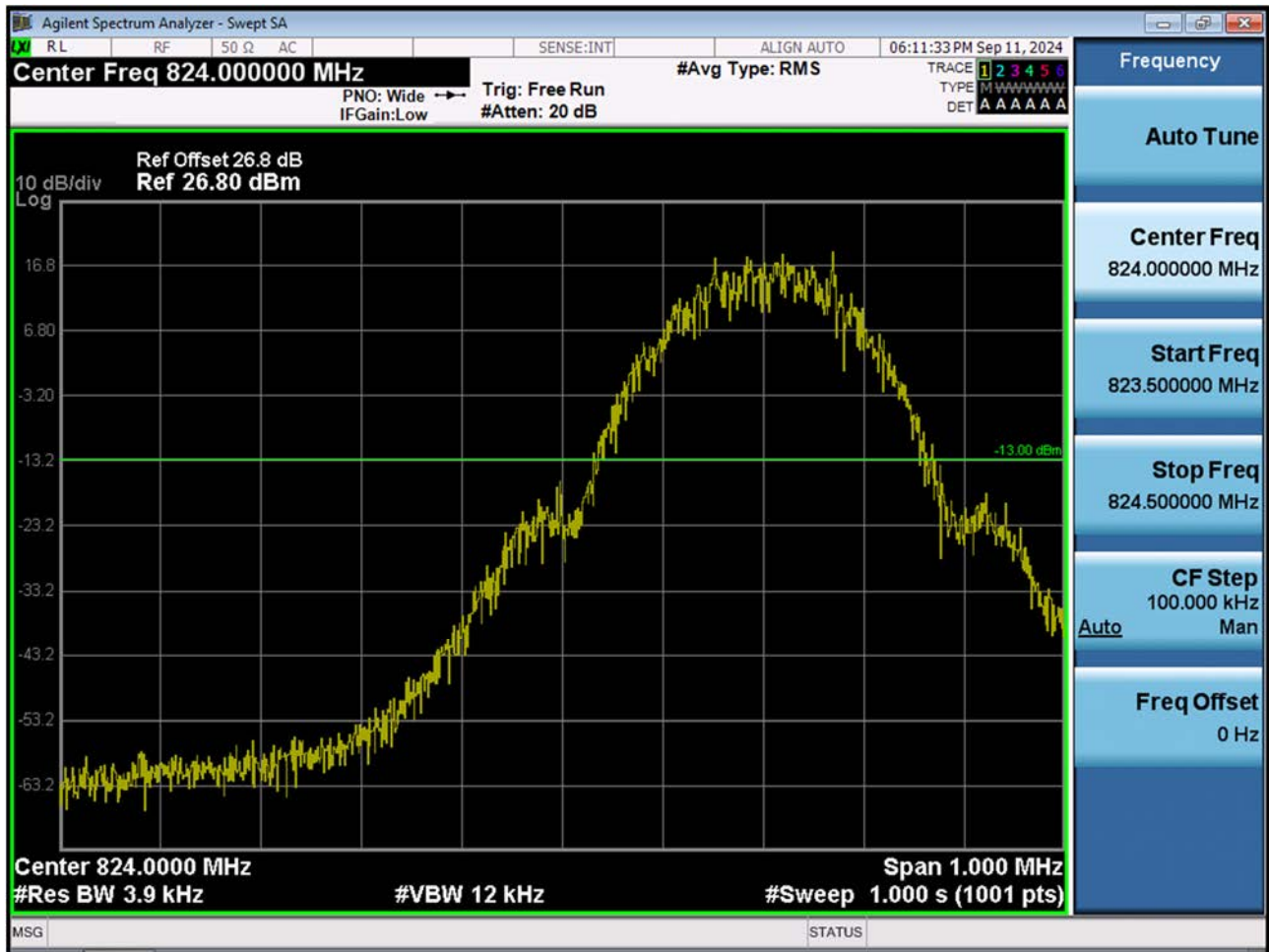
■ GSM850 EDGE (190 CH.) Peak-to-Average Ratio



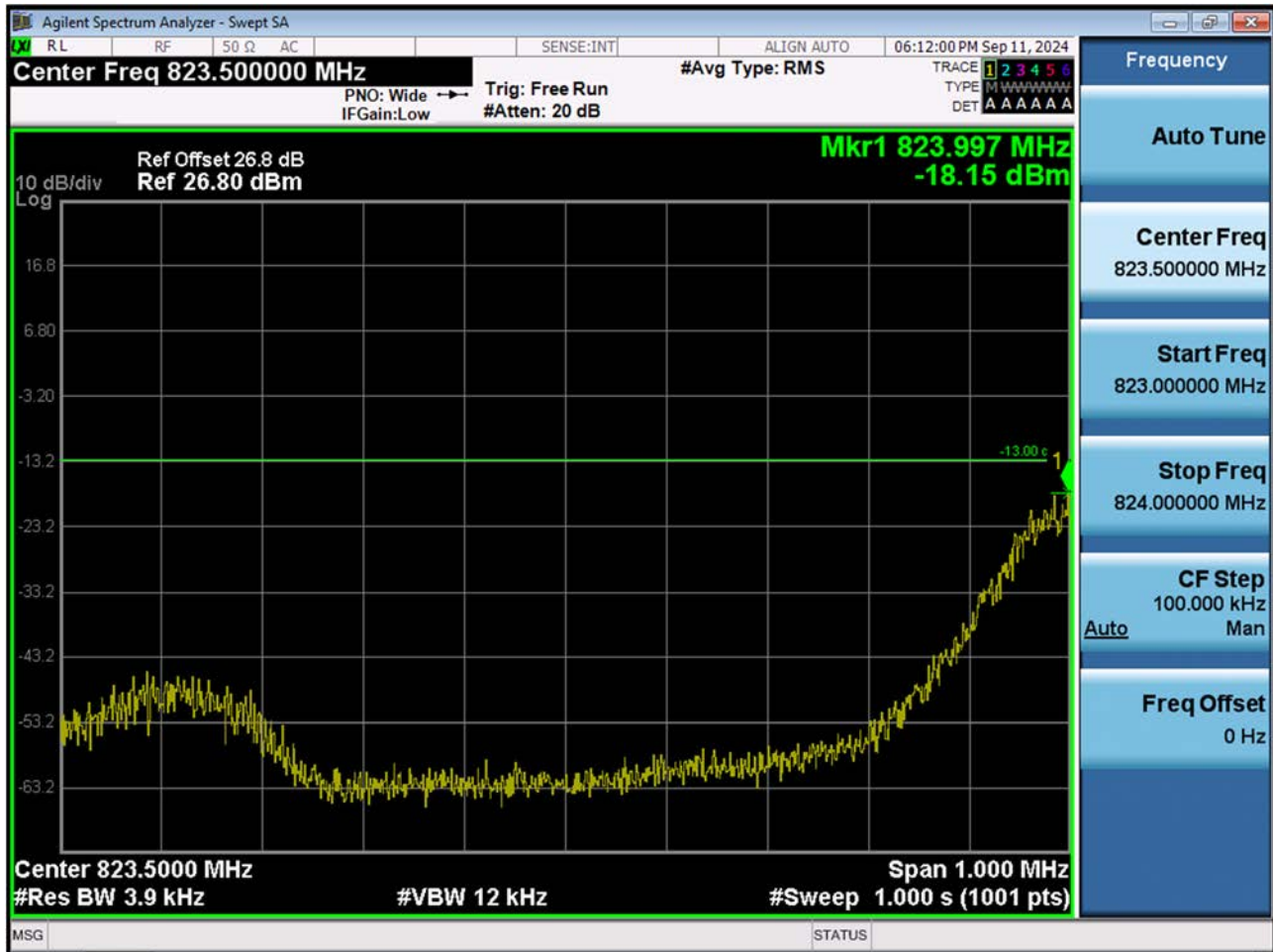
■ WCDMA850 MODE (4408 CH.) Peak-to-Average Ratio



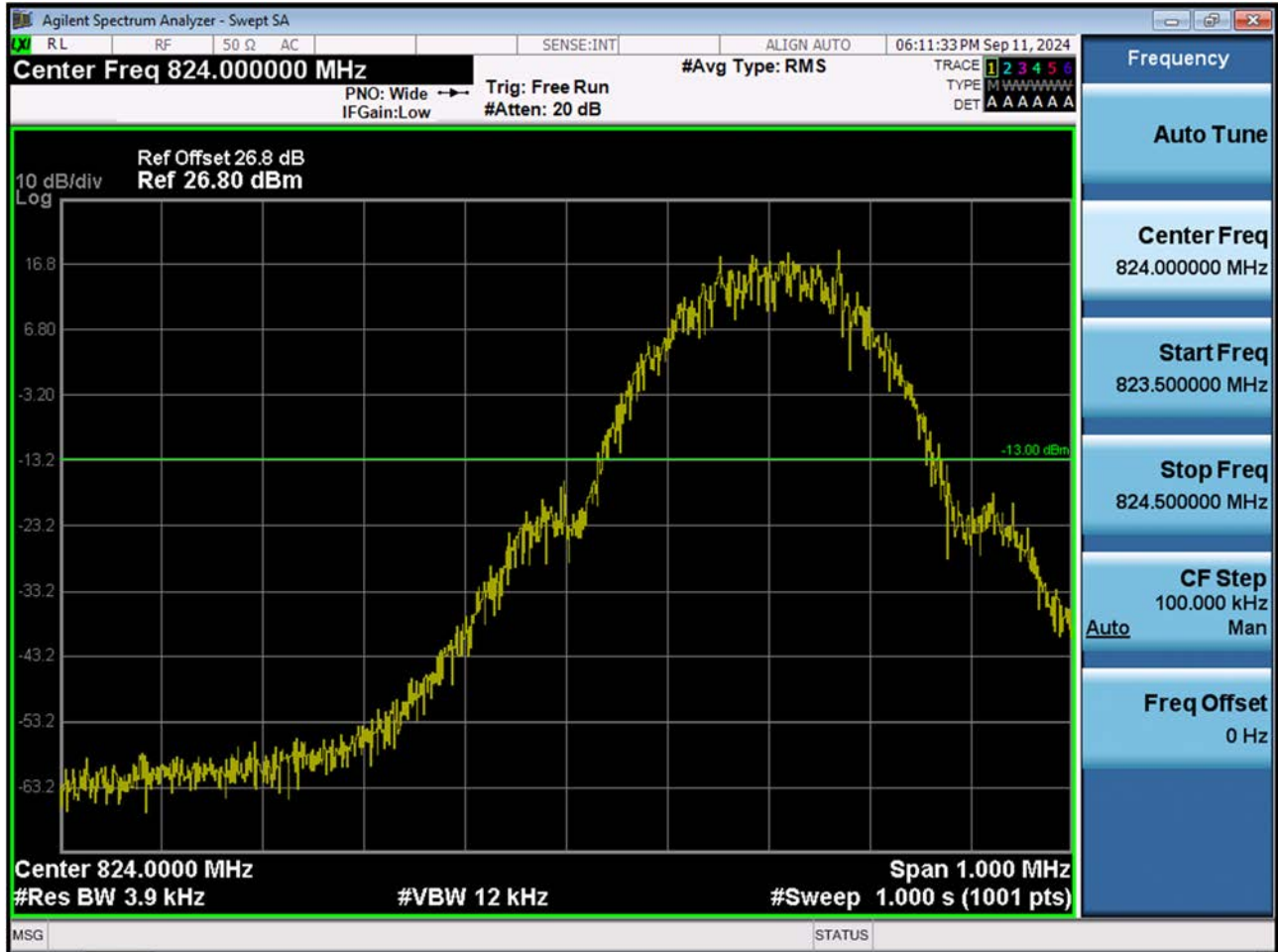
■ GSM850 MODE (128 CH.) Block Edge 1



■ GSM850 MODE (128 CH.) Block Edge 2



■ GSM850 MODE (128 CH.) Block Edge 3



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 06:14:04 PM Sep 11, 2024

Center Freq 849.000000 MHz #Avg Type: RMS

PNO: Wide Trig: Free Run
IFGain:Low #Atten: 20 dB

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W
DET A A A A A A

Ref Offset 26.8 dB
Ref 26.80 dBm

10 dB/div
Log

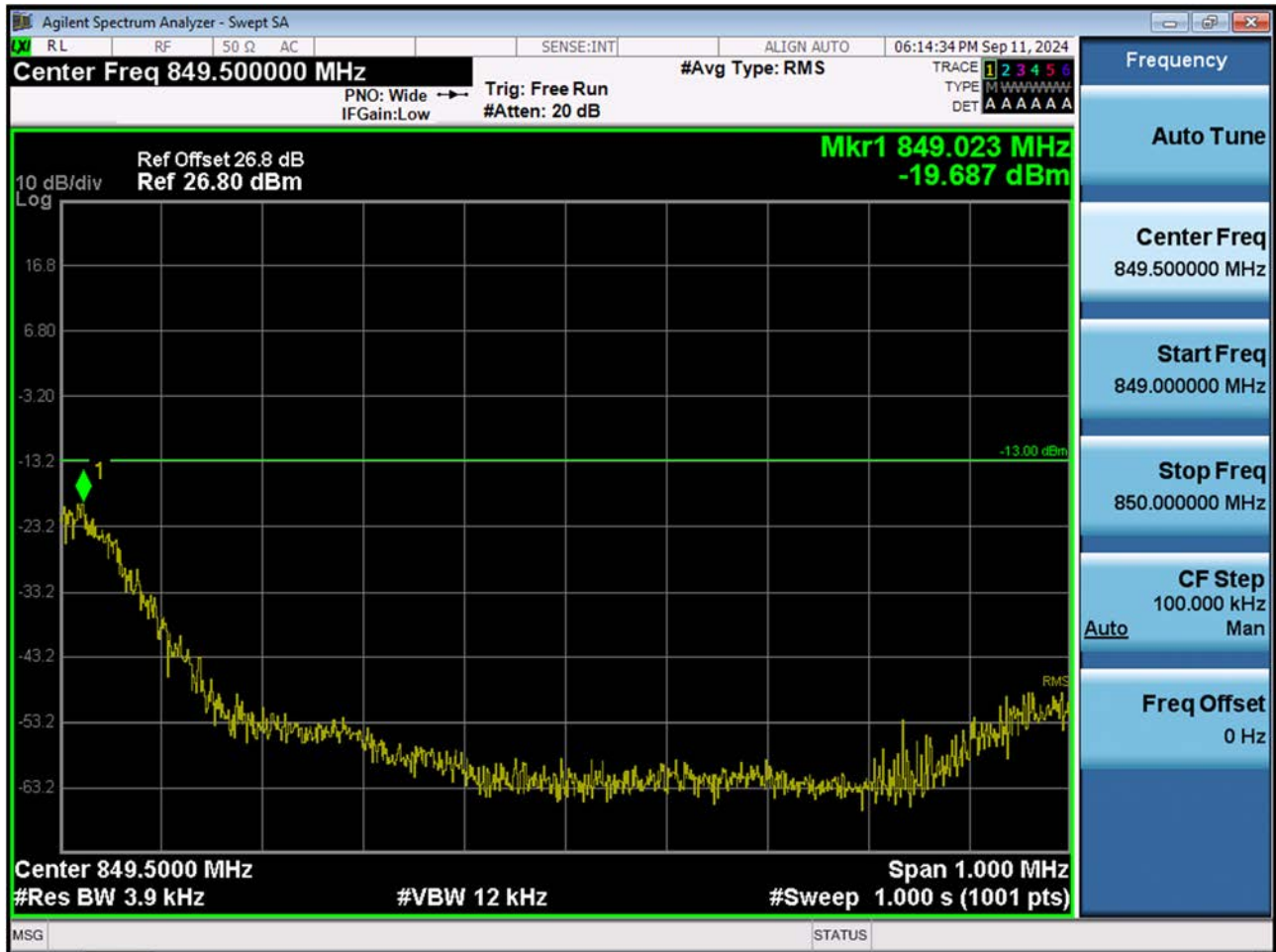
16.8
6.80
-3.20
-13.2
-23.2
-33.2
-43.2
-53.2
-63.2

-13.00 dBm

RMS

Center 849.0000 MHz **Span 1.000 MHz**
#Res BW 3.9 kHz **#VBW 12 kHz** **#Sweep 1.000 s (1001 pts)**

■ GSM850 MODE (251 CH.) Block Edge 2



■ GSM850 MODE (251 CH.) Block Edge 3



■ EDGE MODE (128 CH.) Block Edge 1

