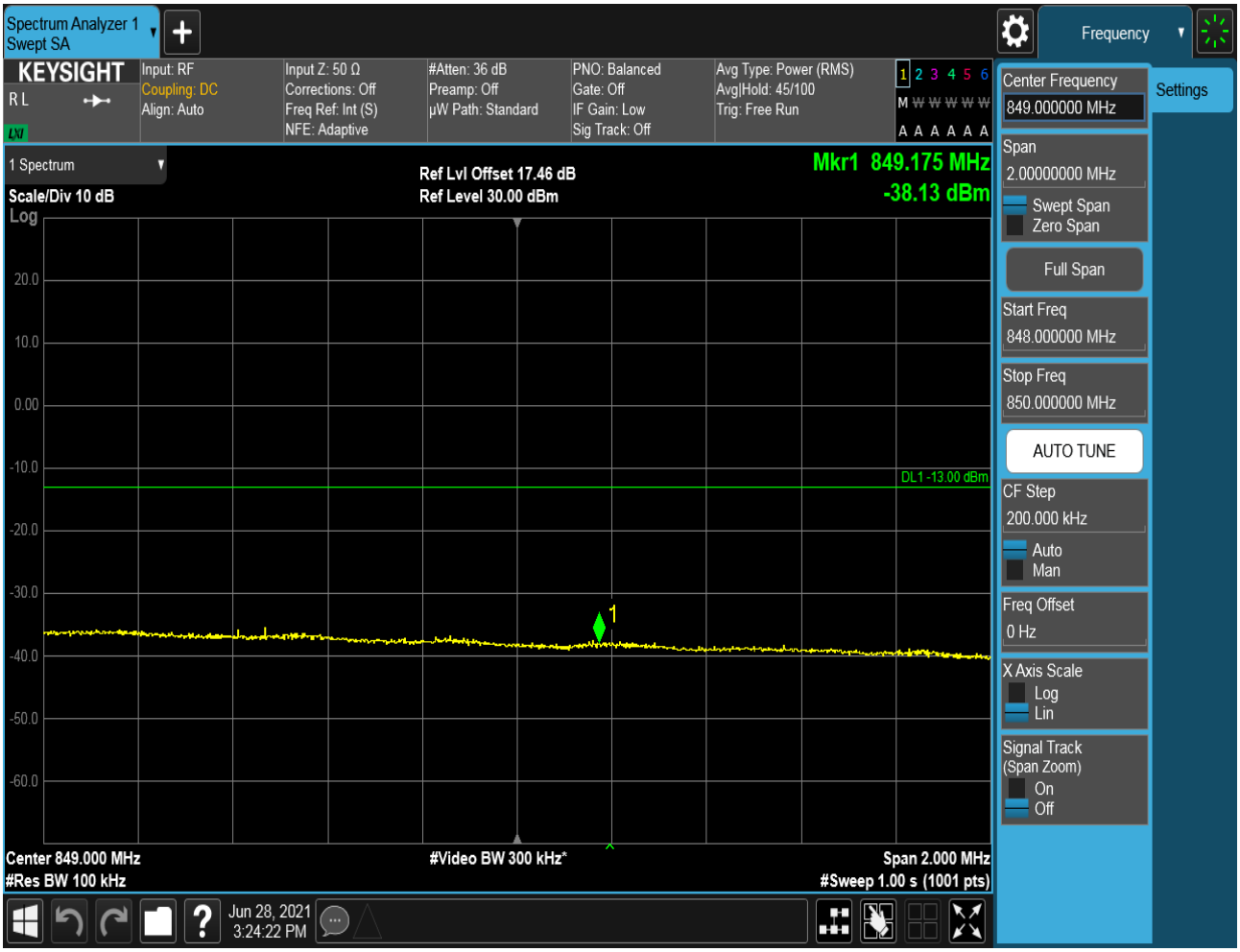
5.1.1.2.4.2.3 Test RB = RB25#13



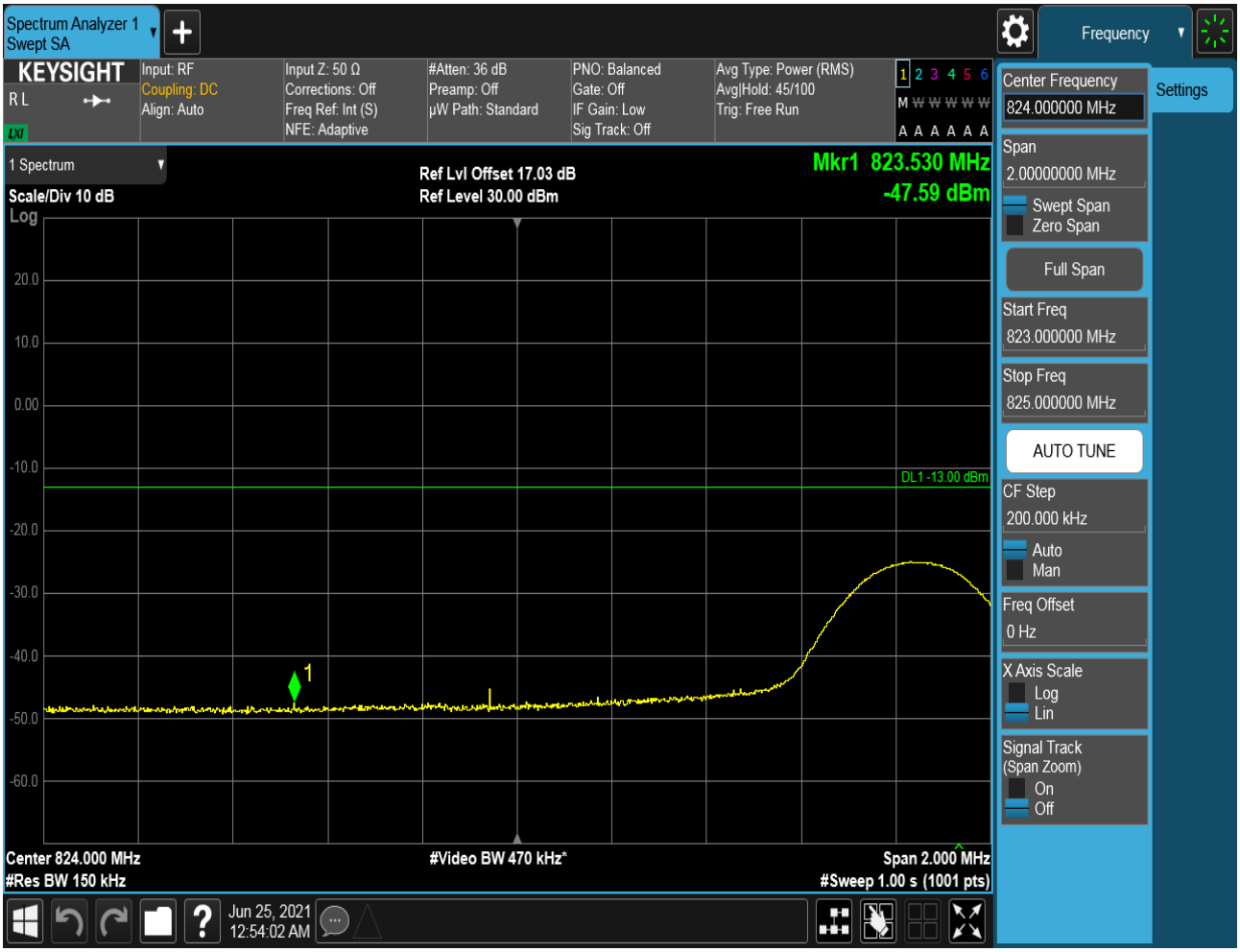
5.1.1.2.4.2.4 Test RB = RB50#0

5.1.1.2.5 Test Bandwidth = 15MHz

5.1.1.2.5.1 Test Channel = LCH

5.1.1.2.5.1.1 Test RB = RB1#0

5.1.1.2.5.1.2 Test RB = RB1#74

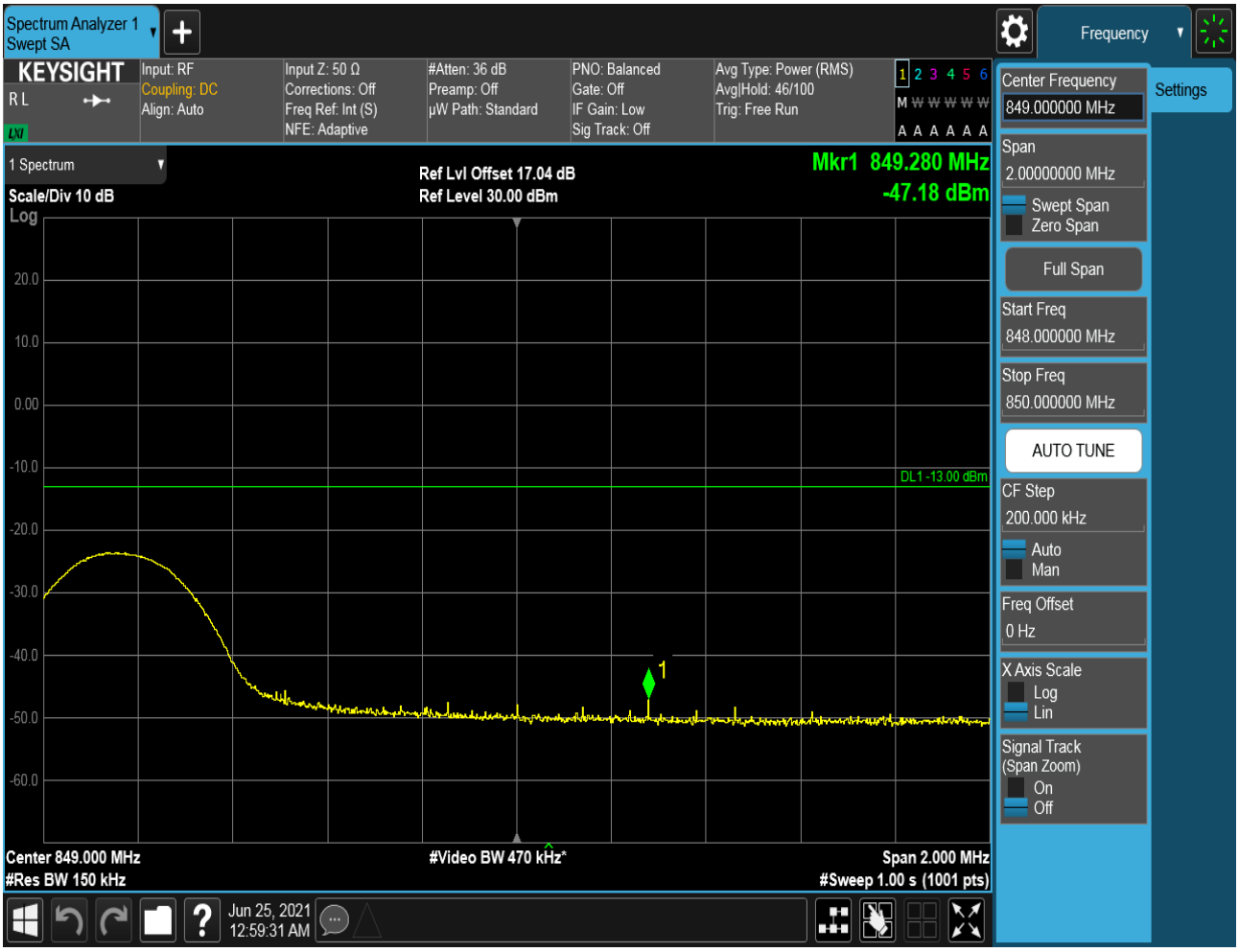


5.1.1.2.5.1.3 Test RB = RB38#19

5.1.1.2.5.1.4 Test RB = RB75#0

5.1.1.2.5.2 Test Channel = HCH

5.1.1.2.5.2.1 Test RB = RB1#0



5.1.1.2.5.2.2 Test RB = RB1#74

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5.1.1.2.5.2.3 Test RB = RB38#19

5.1.1.2.5.2.4 Test RB = RB75#0

6Appendix_F: Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = Band26(824-849MHz)

6.1.1.1 Test Mode = LTE/TM1

6.1.1.1.1 Test Bandwidth = 1.4MHz

6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0

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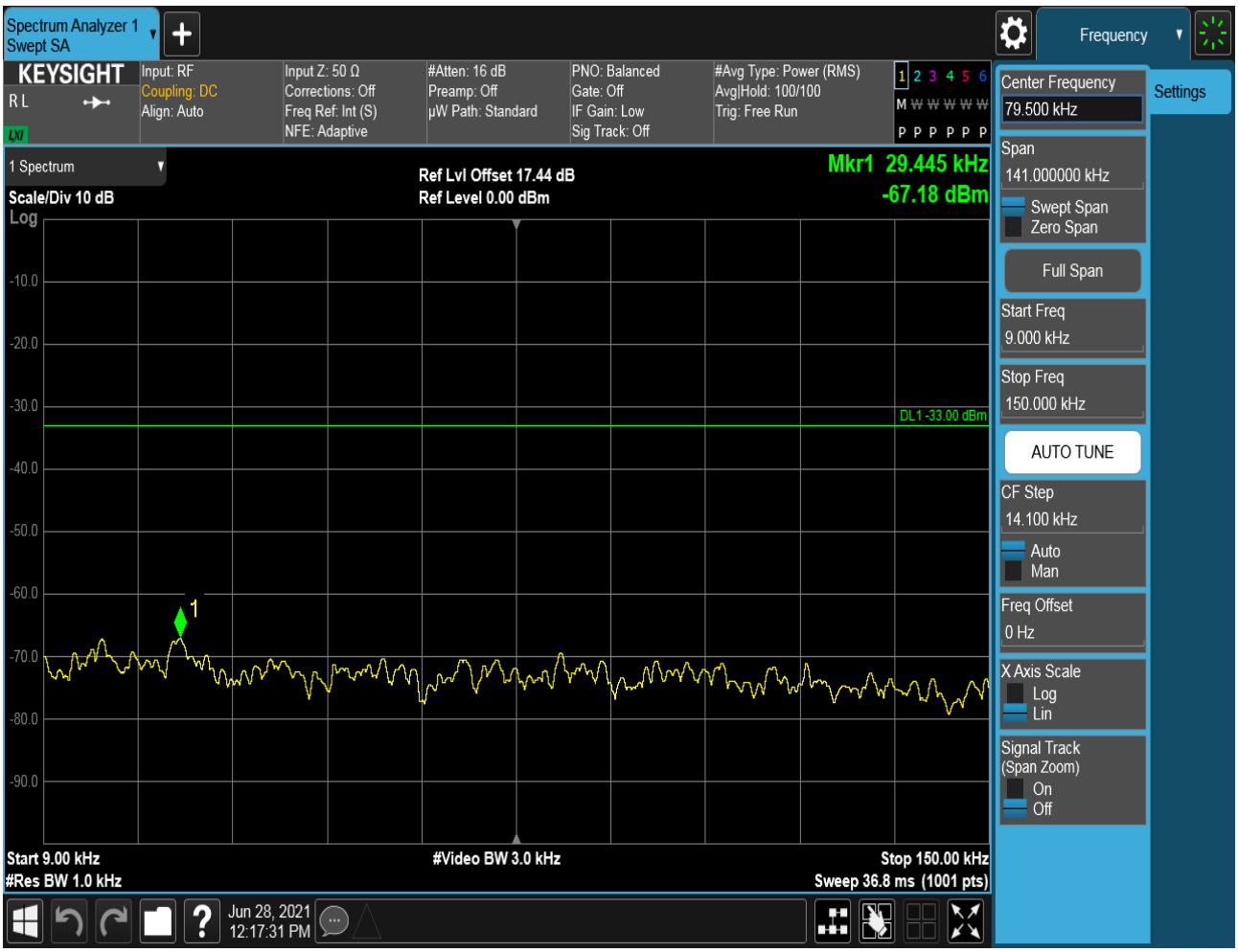

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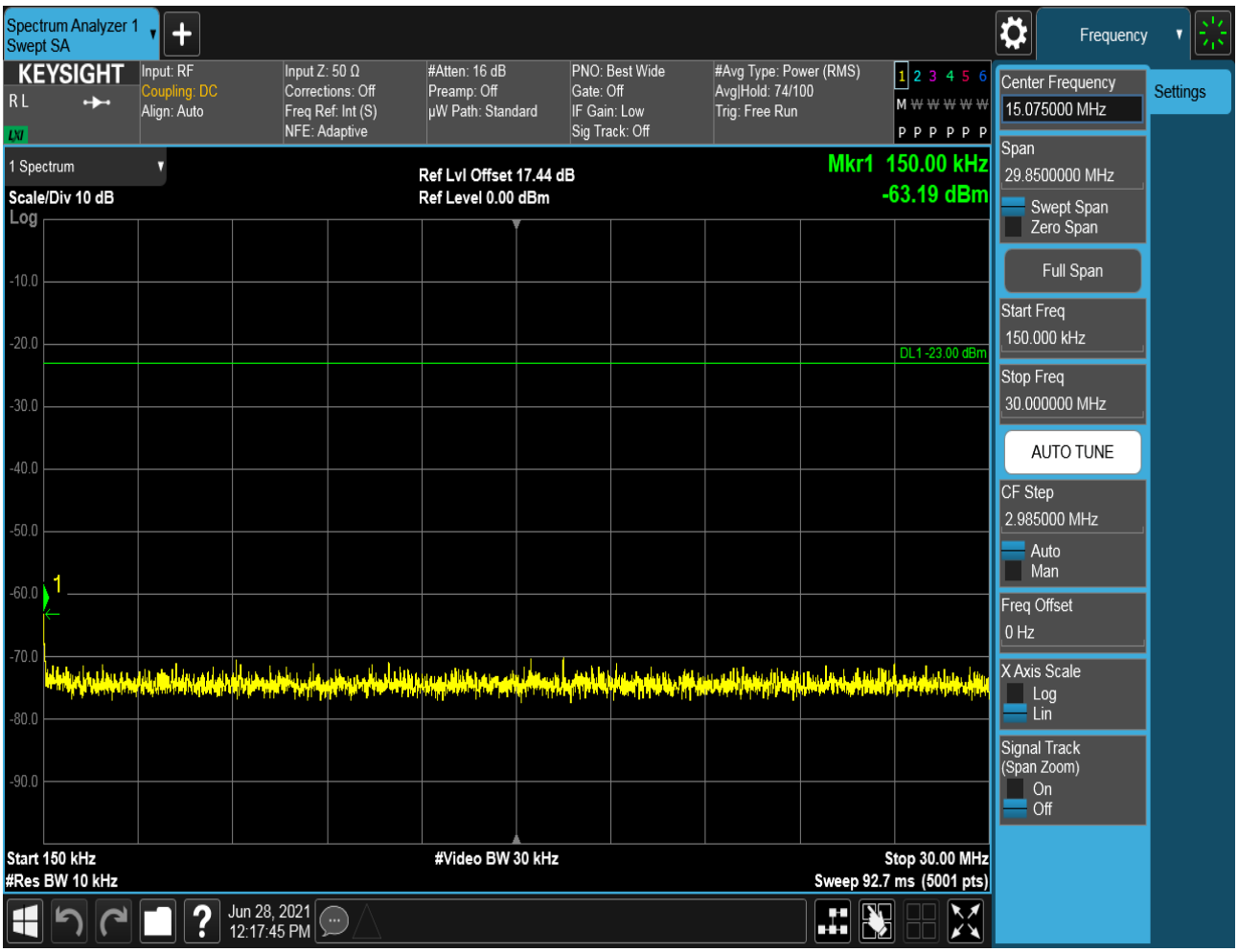

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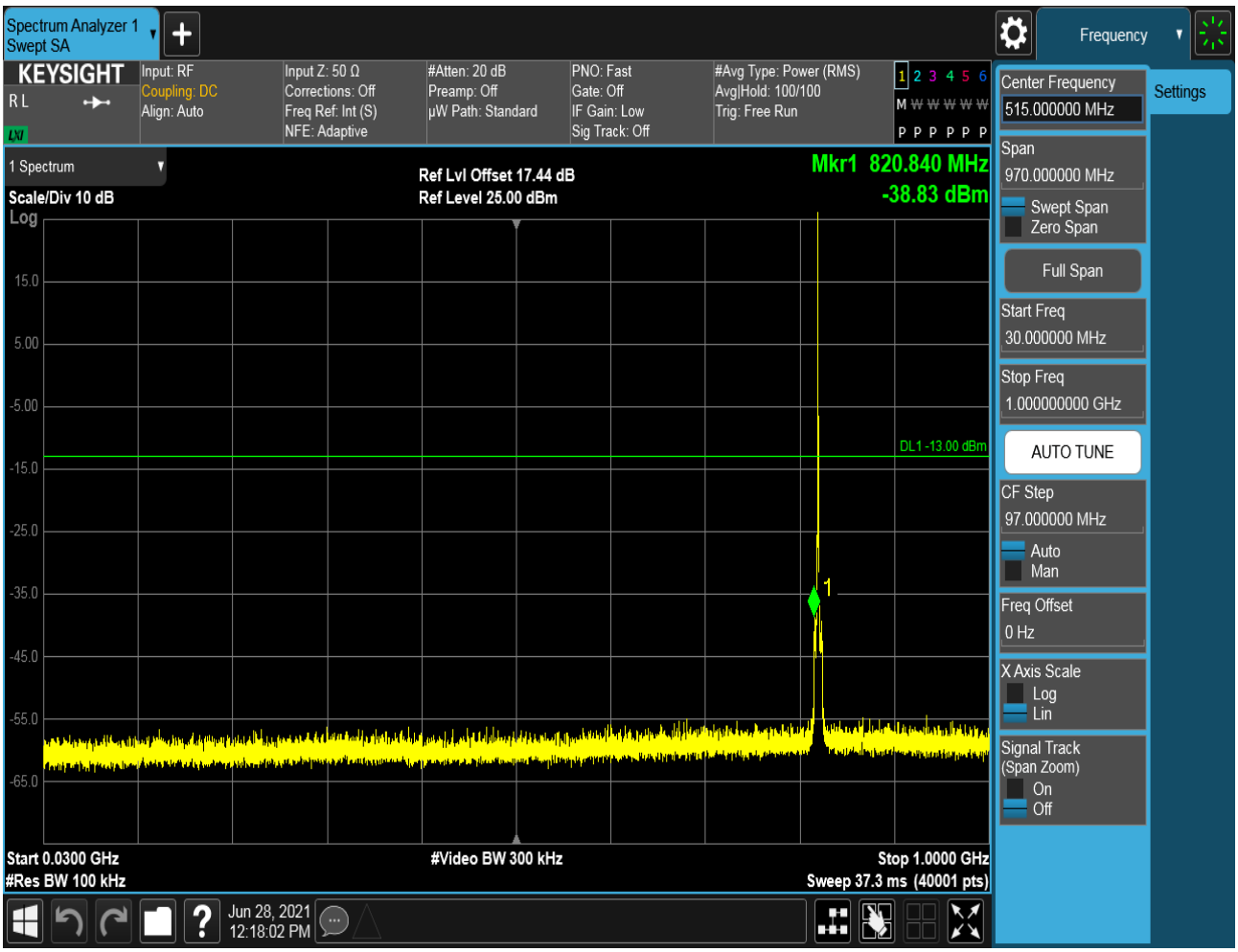

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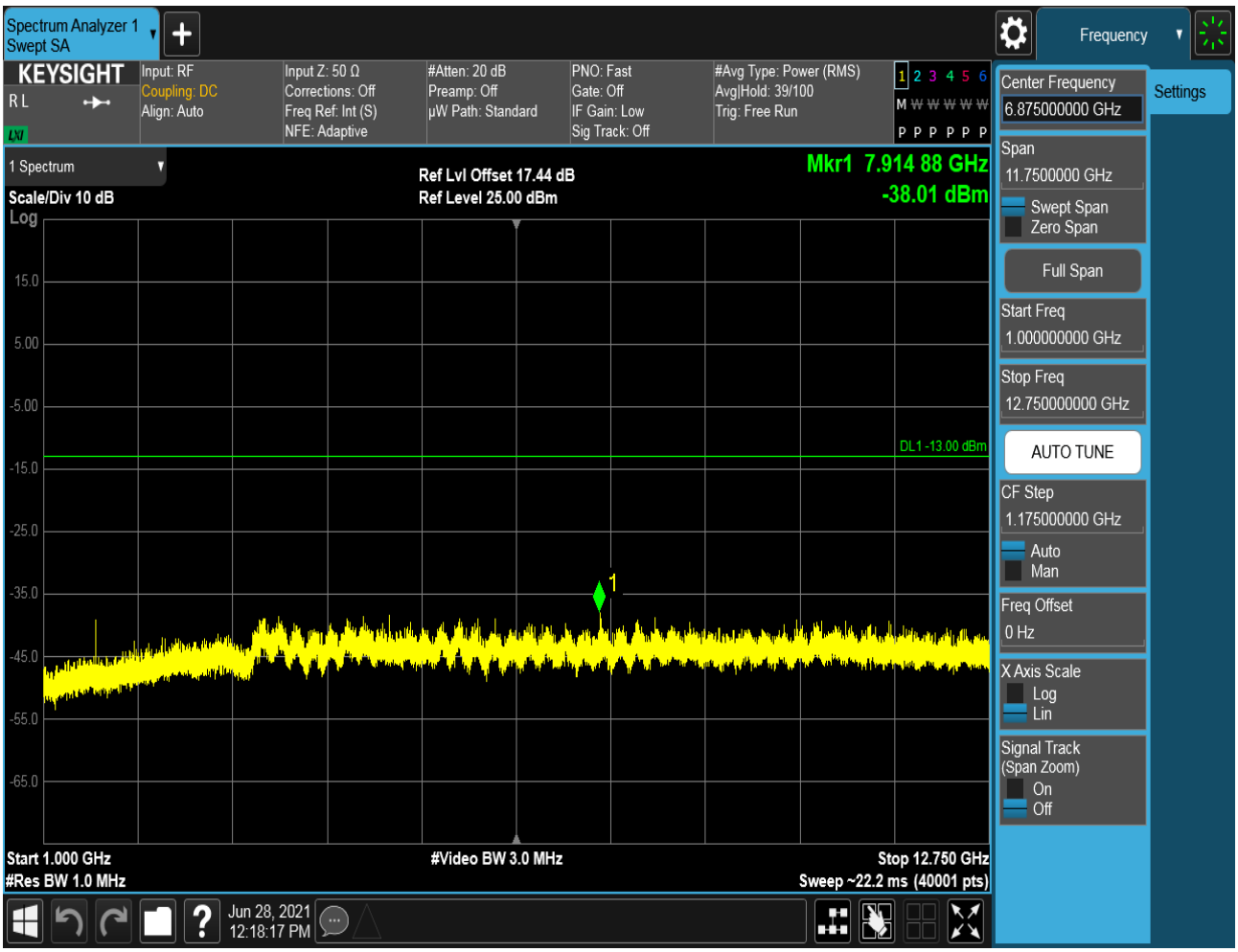

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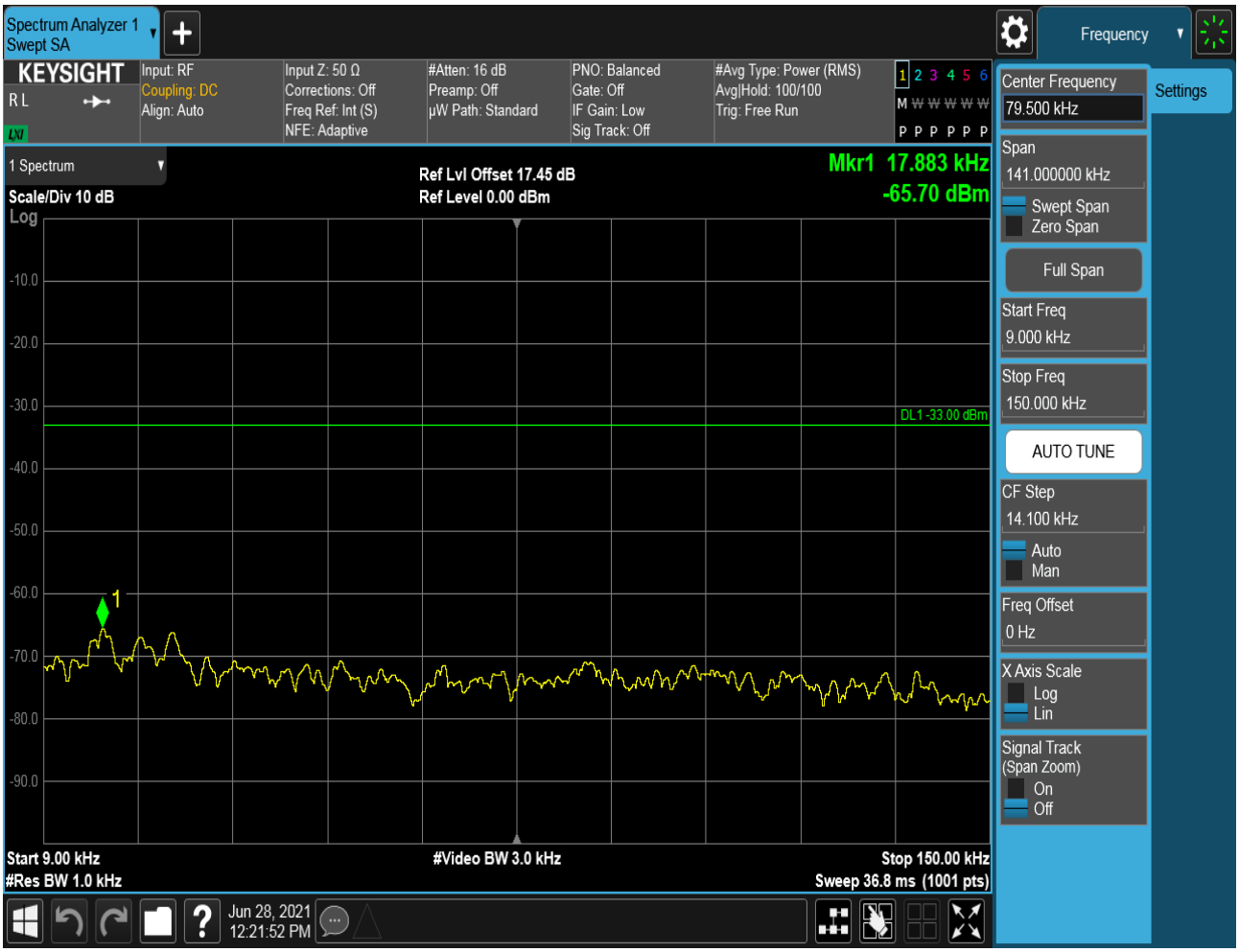
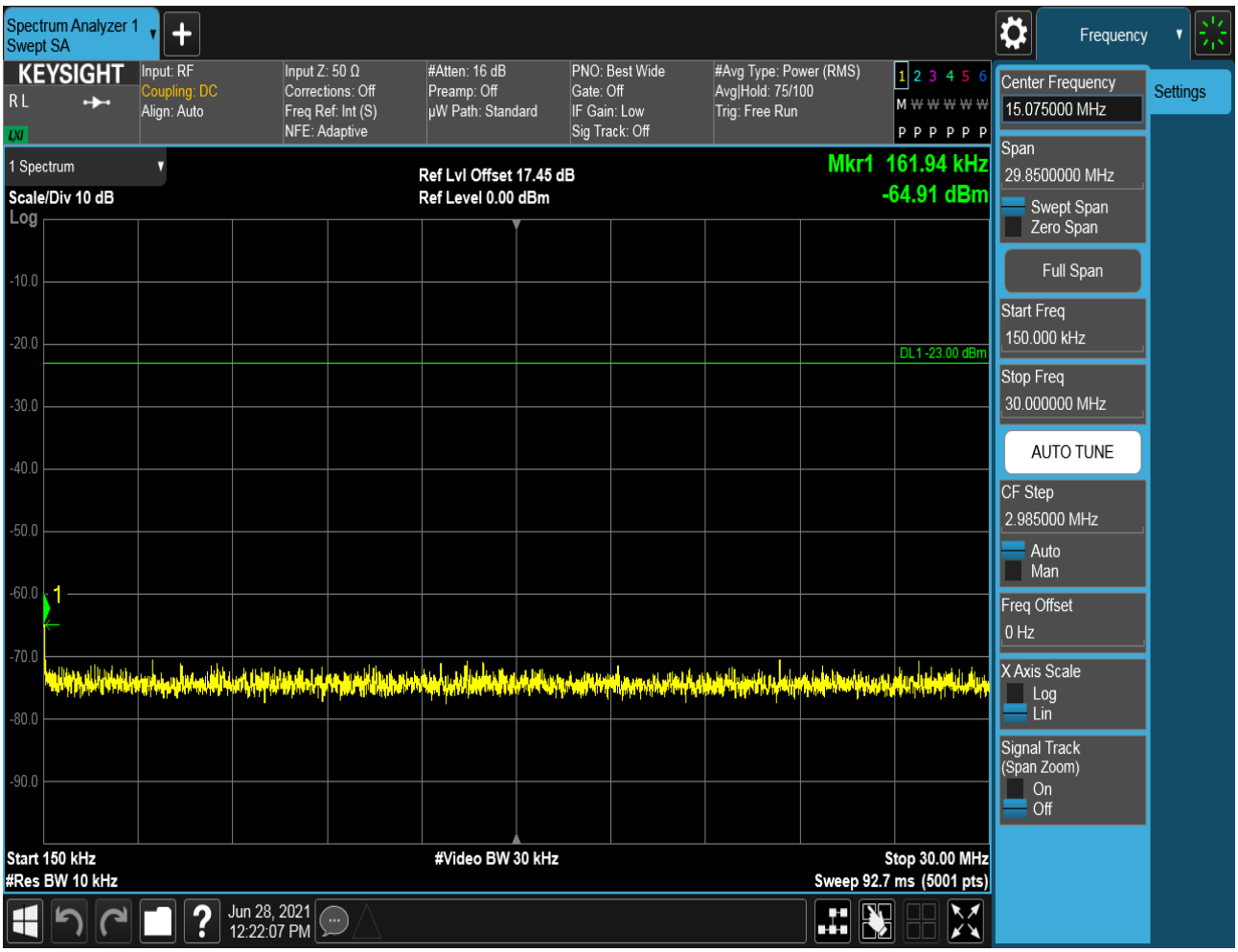
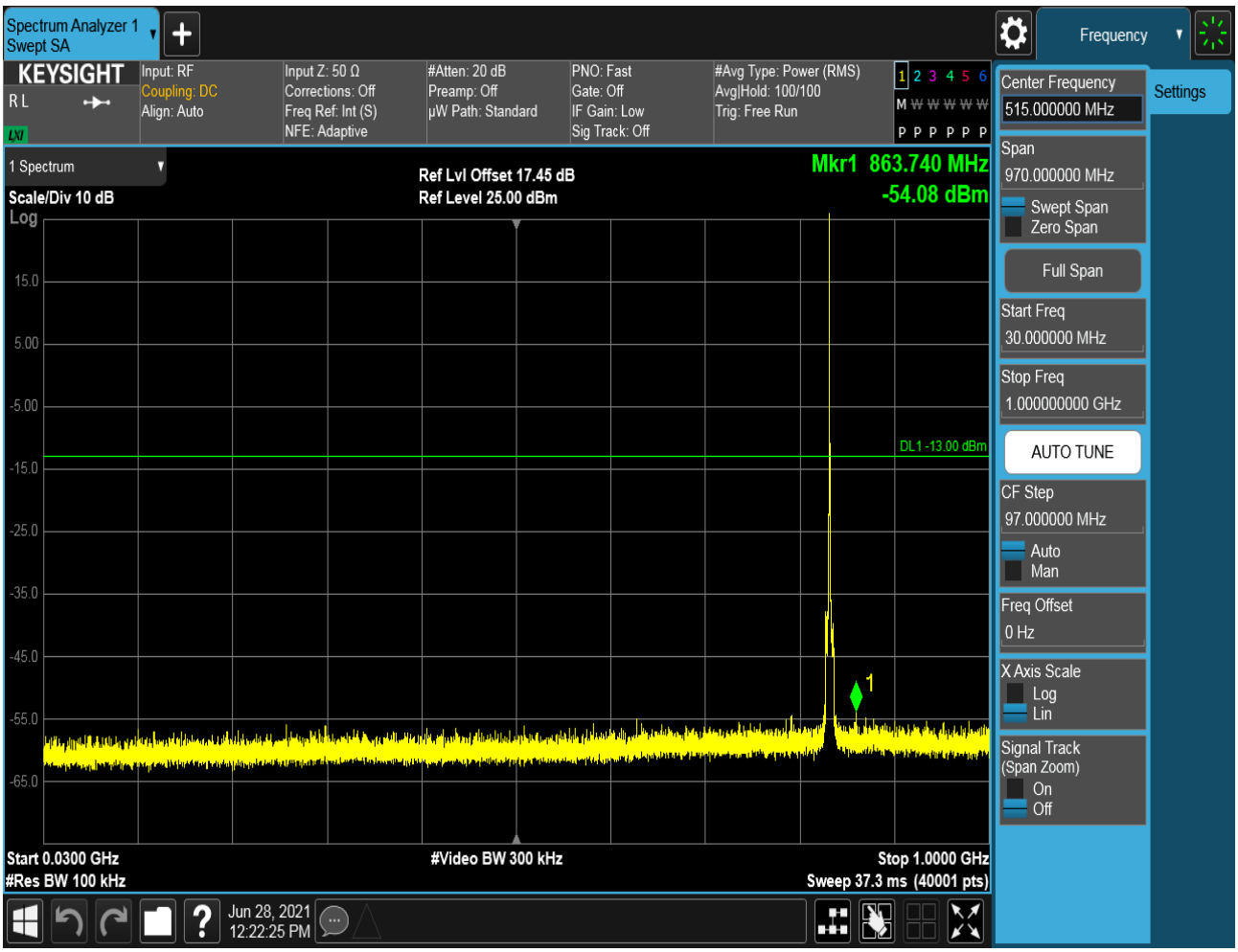
6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0




Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 16 dB
Preamp: Off
µW Path: Standard
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 75/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.45 dB
Ref Level 0.00 dBm
Mkr1 161.94 kHz
-64.91 dBm
DL1 -23.00 dBm
Start 150 kHz
#Res BW 10 kHz
#Video BW 30 kHz
Stop 30.00 MHz
Sweep 92.7 ms (5001 pts)
Jun 28, 2021
12:22:07 PM
Frequency
Settings
Center Frequency
15.075000 MHz
Span
29.8500000 MHz
Swept Span
Zero Span
Full Span
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
AUTO TUNE
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off



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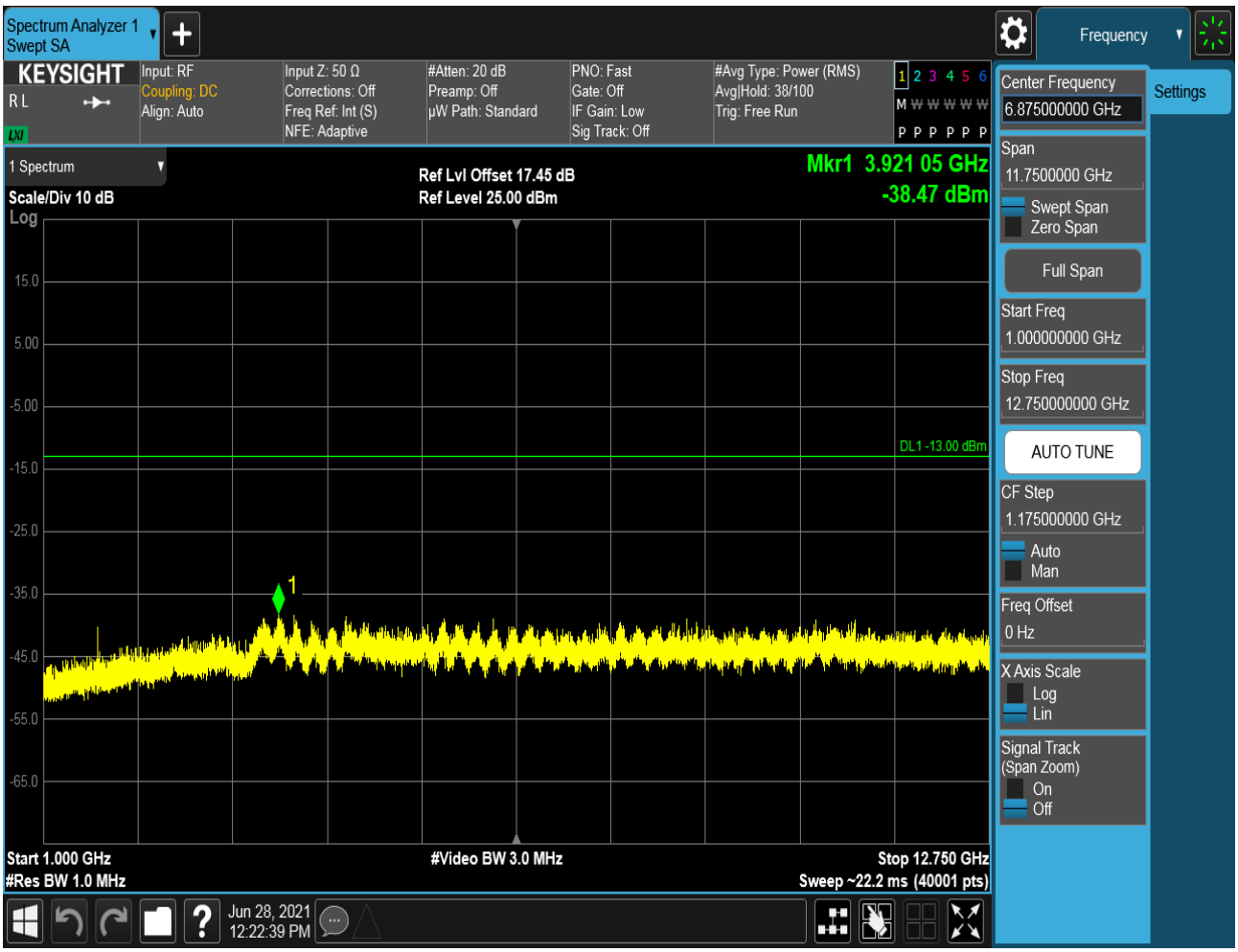

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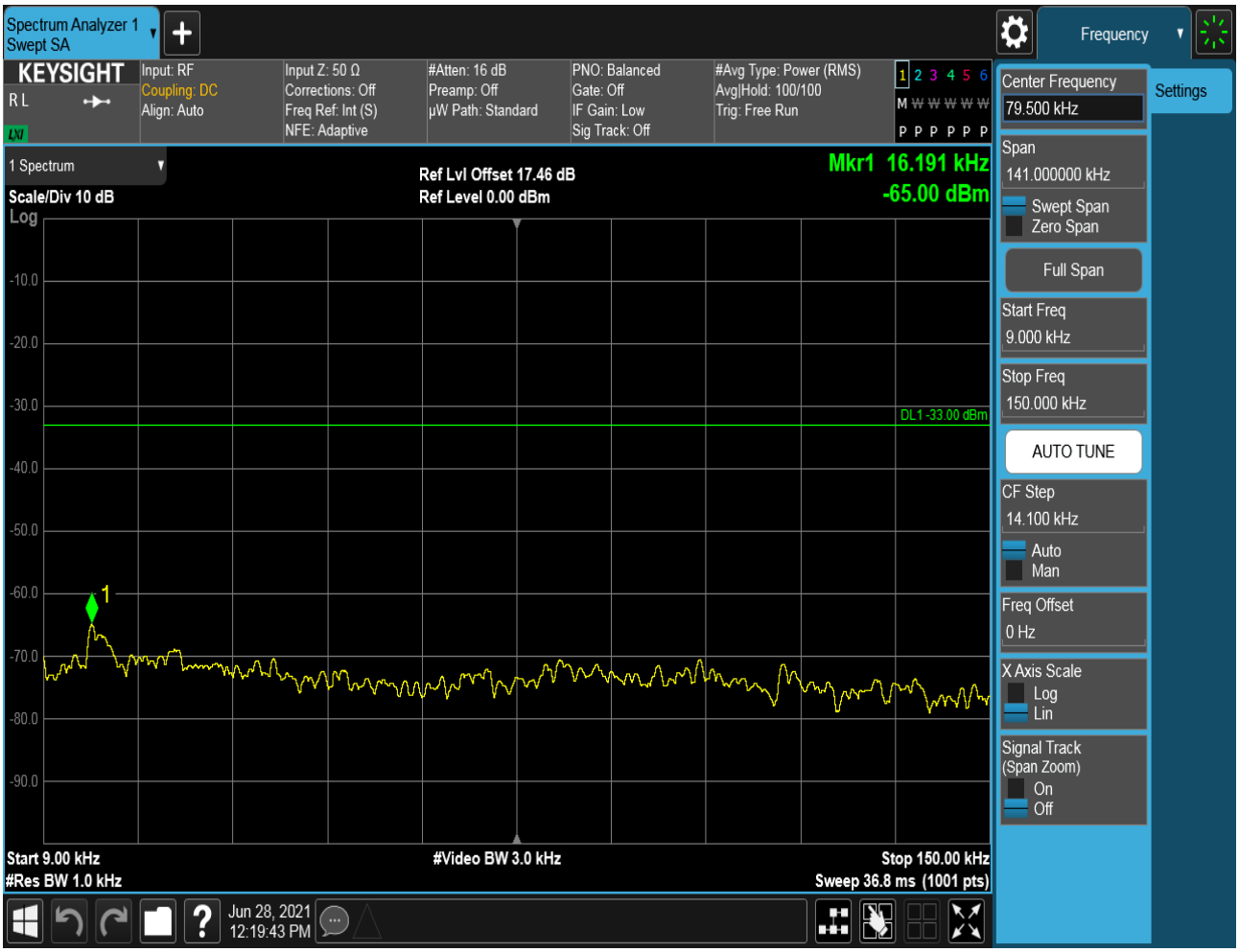
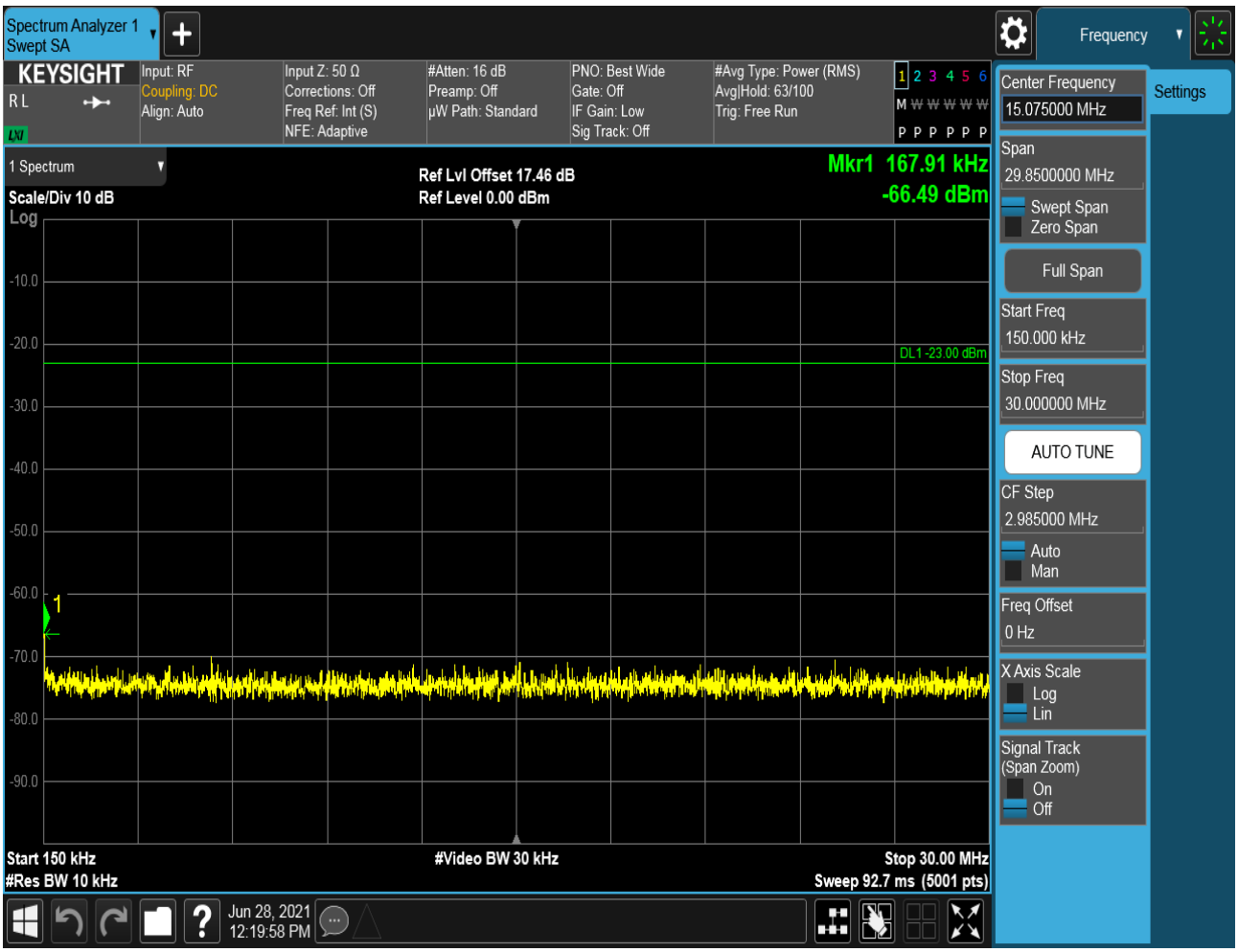
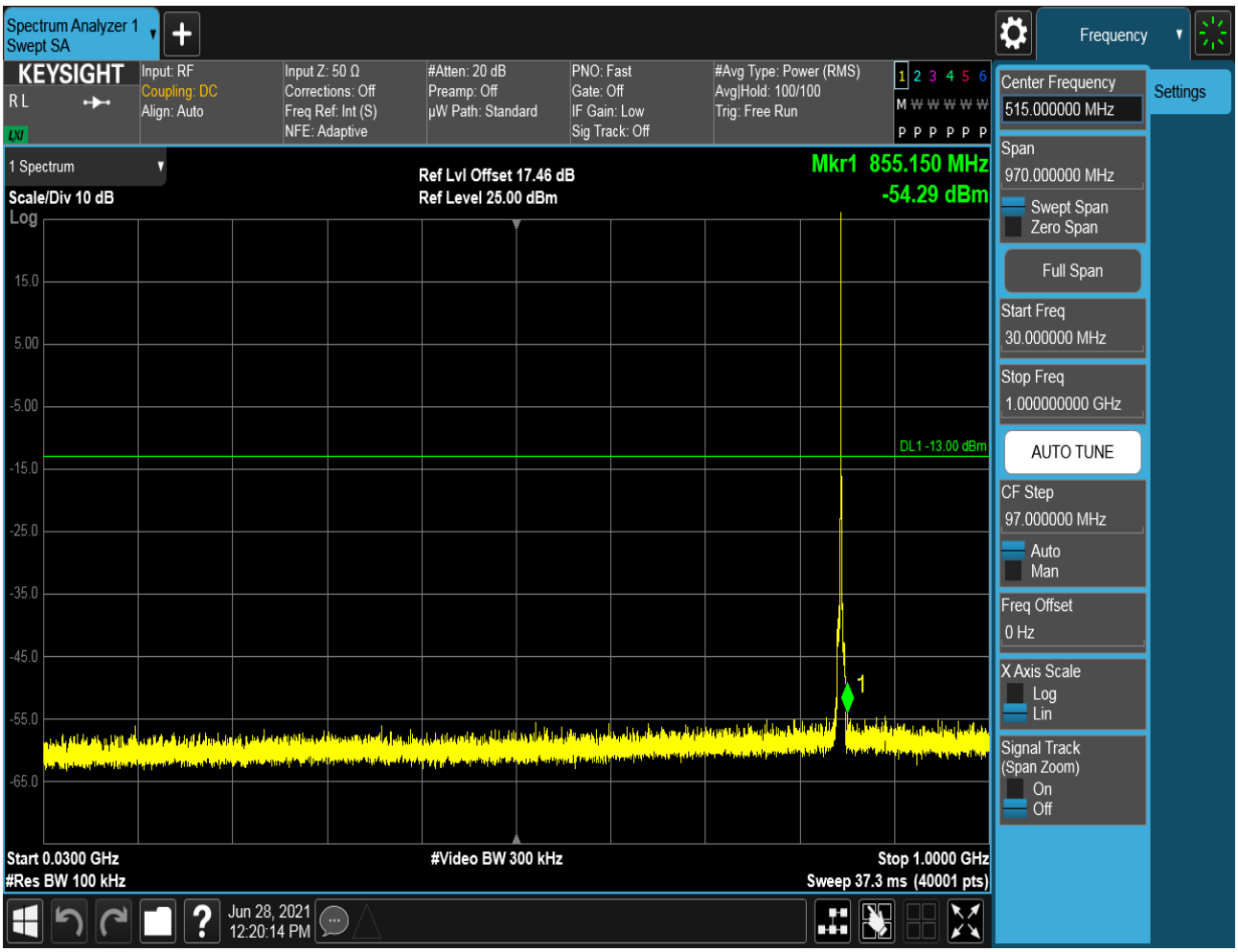
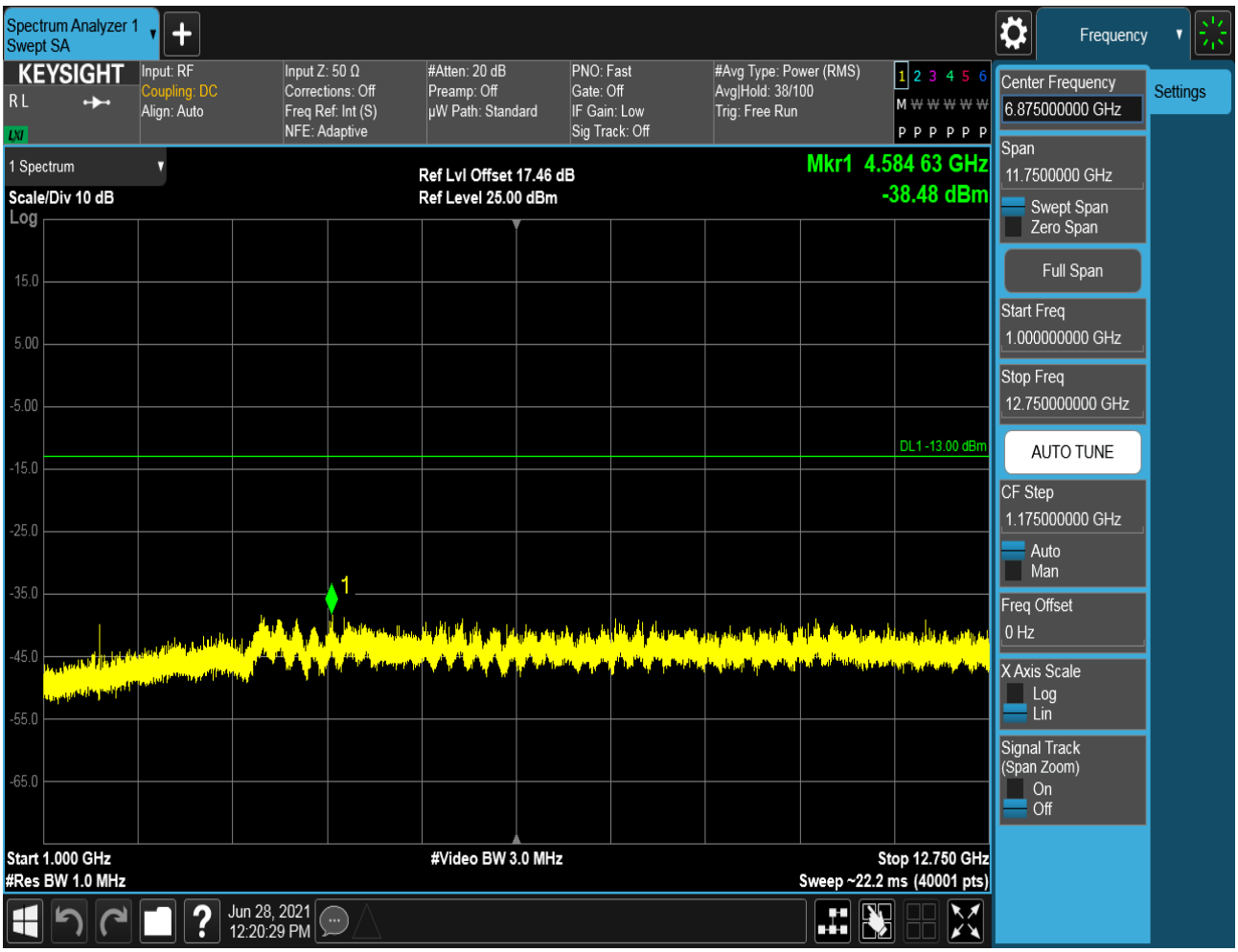
6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0




Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 16 dB
Preamp: Off
µW Path: Standard
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 63/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.46 dB
Ref Level 0.00 dBm
Mkr1 167.91 kHz
-66.49 dBm
DL1 -23.00 dBm
Start 150 kHz
#Res BW 10 kHz
#Video BW 30 kHz
Stop 30.00 MHz
Sweep 92.7 ms (5001 pts)
Jun 28, 2021
12:19:58 PM
Frequency
Settings
Center Frequency
15.075000 MHz
Span
29.8500000 MHz
Swept Span
Zero Span
Full Span
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
AUTO TUNE
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 20 dB
Preamp: Off
µW Path: Standard
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.46 dB
Ref Level 25.00 dBm
Mkr1 855.150 MHz
-54.29 dBm
DL1 -13.00 dBm
Start 0.0300 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 1.0000 GHz
Sweep 37.3 ms (40001 pts)
Jun 28, 2021
12:20:14 PM
Frequency
Settings
Center Frequency
515.000000 MHz
Span
970.000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
30.000000 MHz
Stop Freq
1.000000000 GHz
AUTO TUNE
CF Step
97.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off



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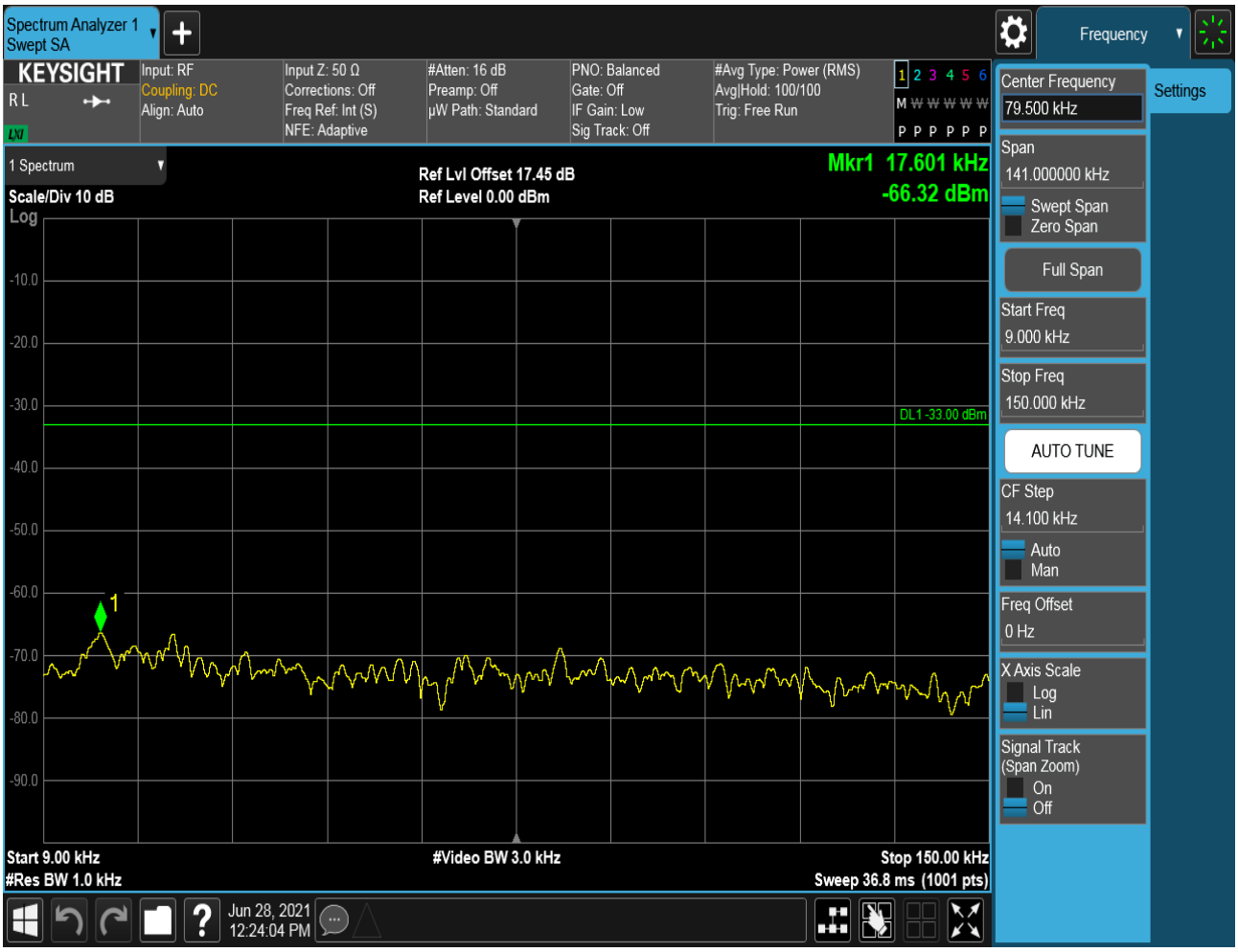
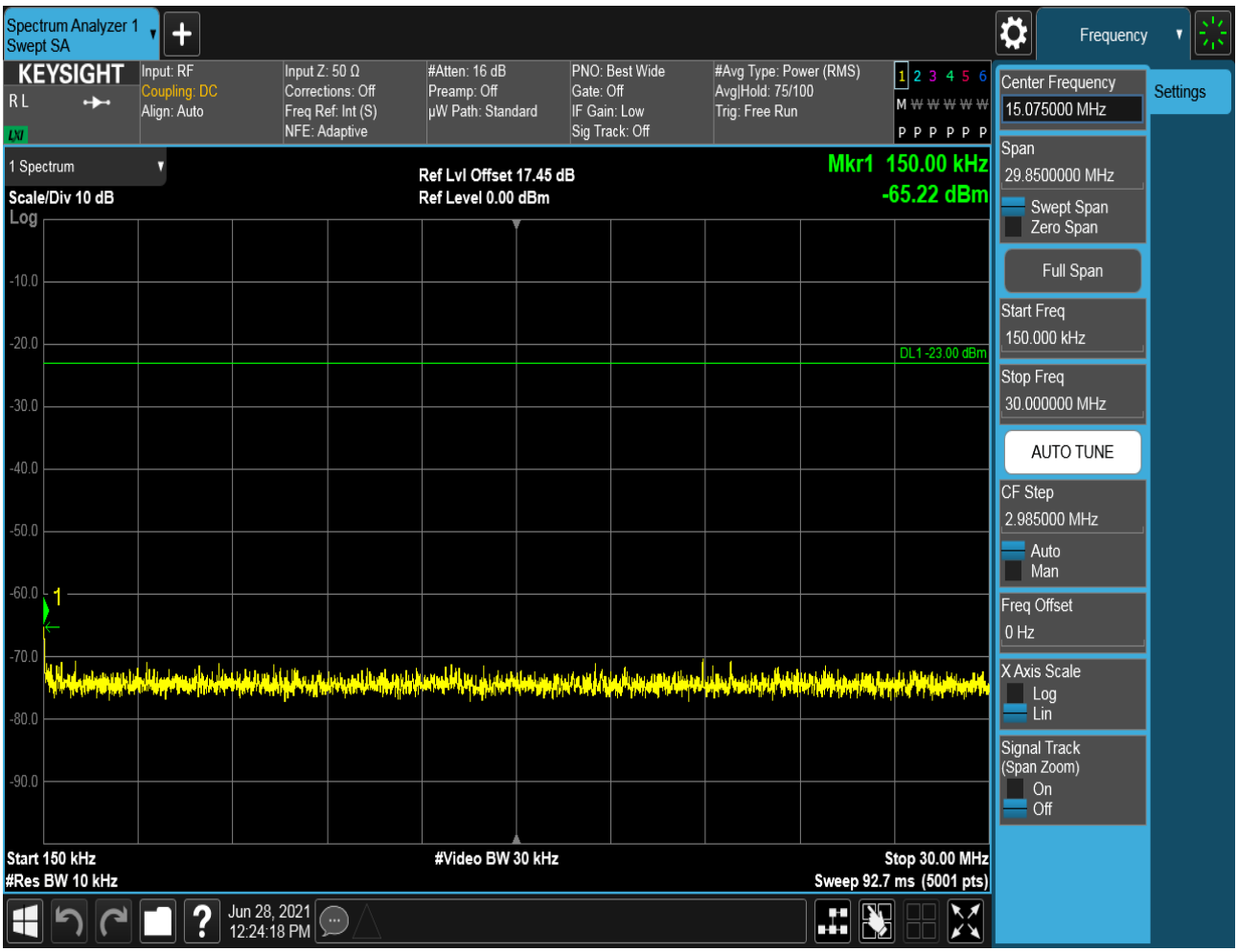
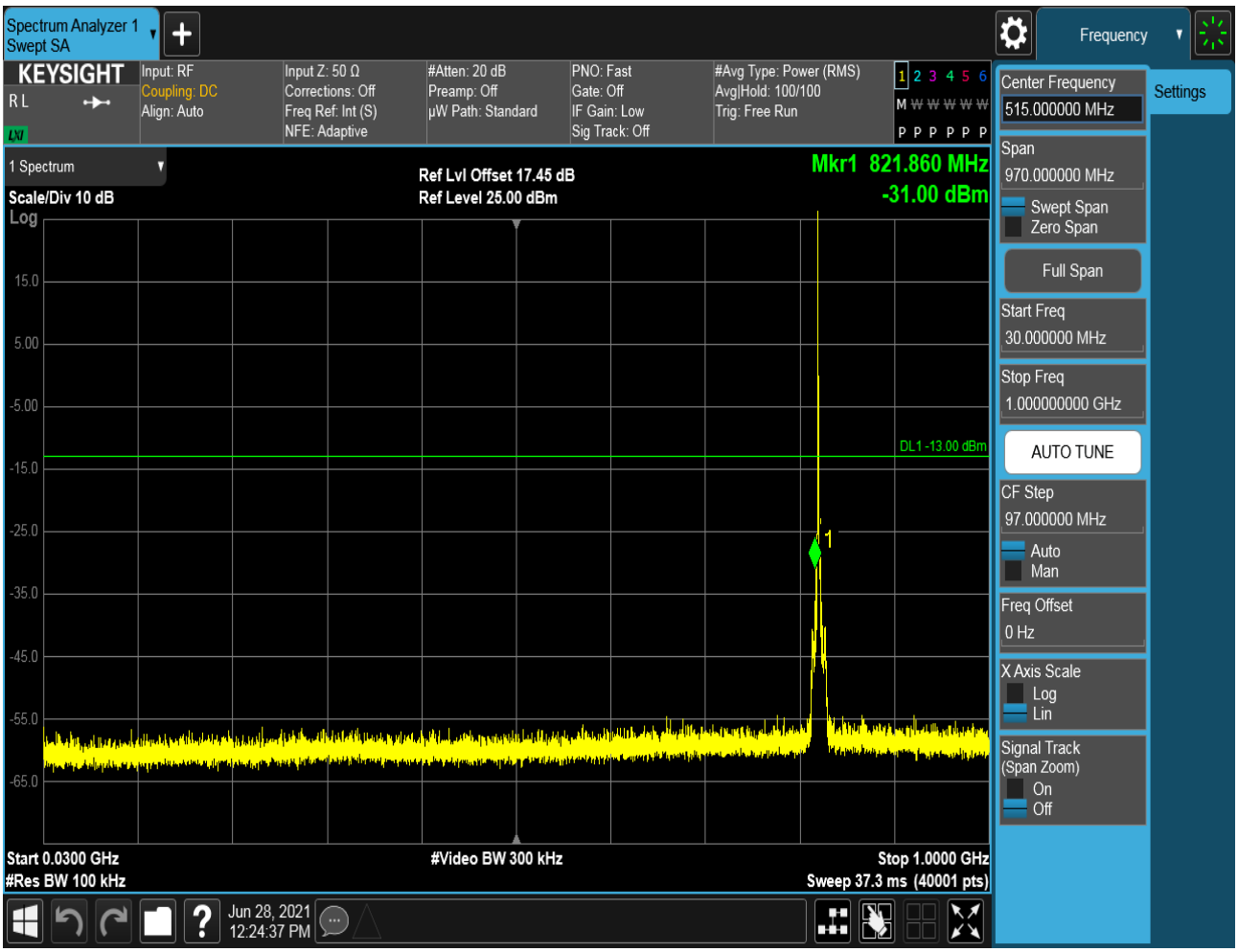
6.2.1.1.2 Test Bandwidth = 3MHz

6.2.1.1.2.1 Test Channel = LCH

6.2.1.1.2.1.1 Test RB = RB1#0




Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 16 dB
Preamp: Off
µW Path: Standard
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 75/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.45 dB
Ref Level 0.00 dBm
Mkr1 150.00 kHz
-65.22 dBm
DL1 -23.00 dBm
Start 150 kHz
#Res BW 10 kHz
#Video BW 30 kHz
Stop 30.00 MHz
Sweep 92.7 ms (5001 pts)
Jun 28, 2021
12:24:18 PM
Frequency
Settings
Center Frequency
15.075000 MHz
Span
29.8500000 MHz
Swept Span
Zero Span
Full Span
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
AUTO TUNE
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off



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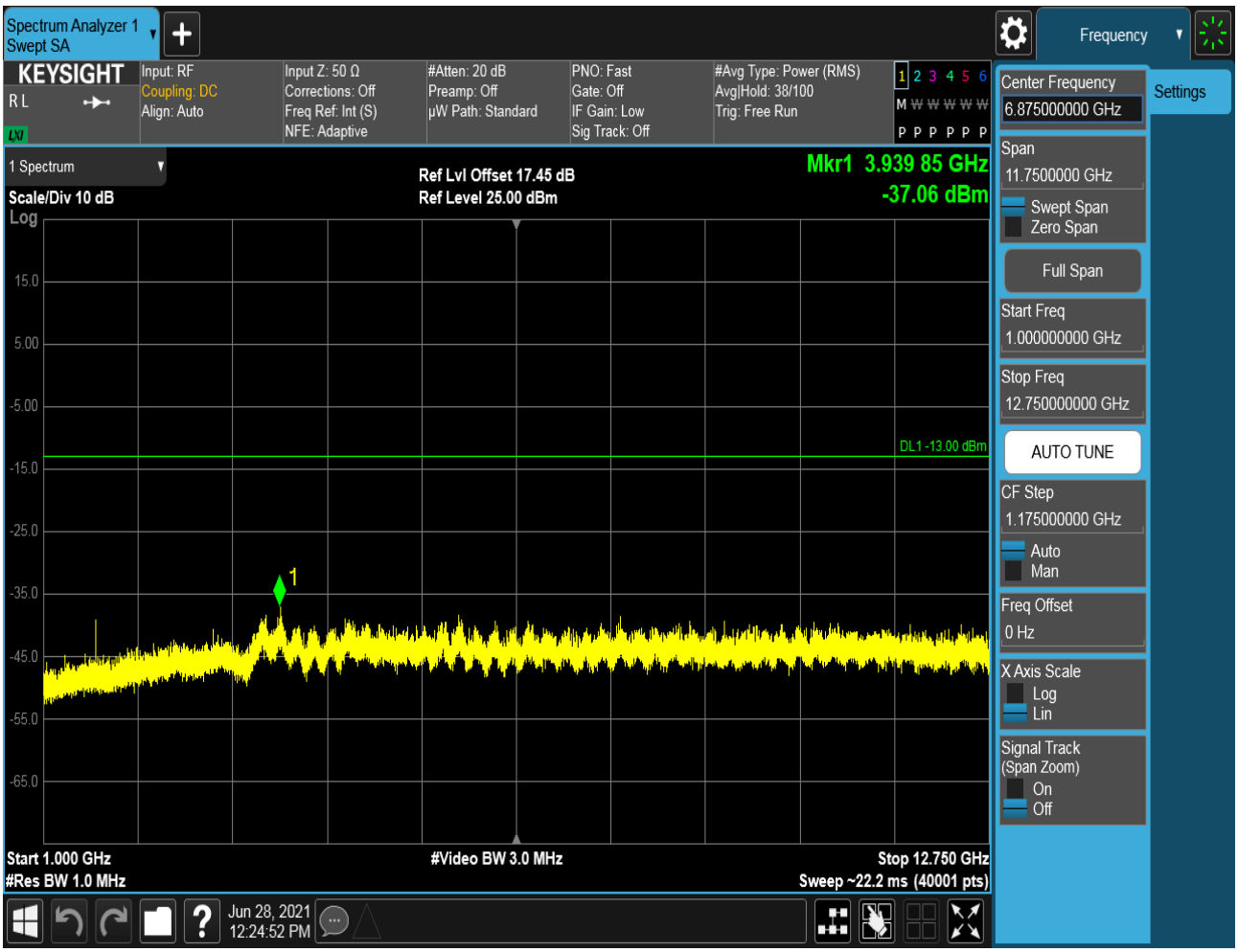

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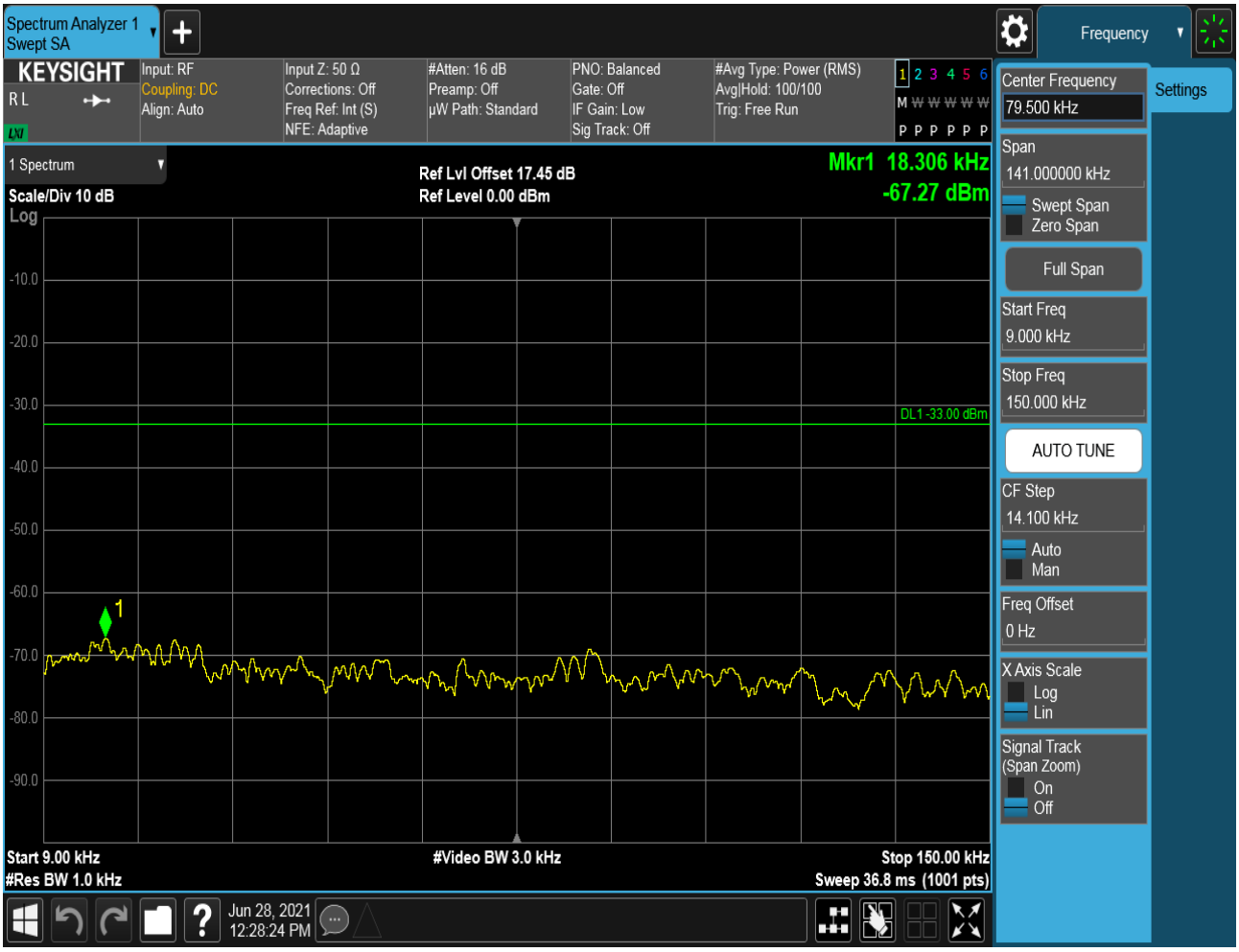
6.2.1.1.2.2 Test Channel = MCH

6.2.1.1.2.2.1 Test RB = RB1#0



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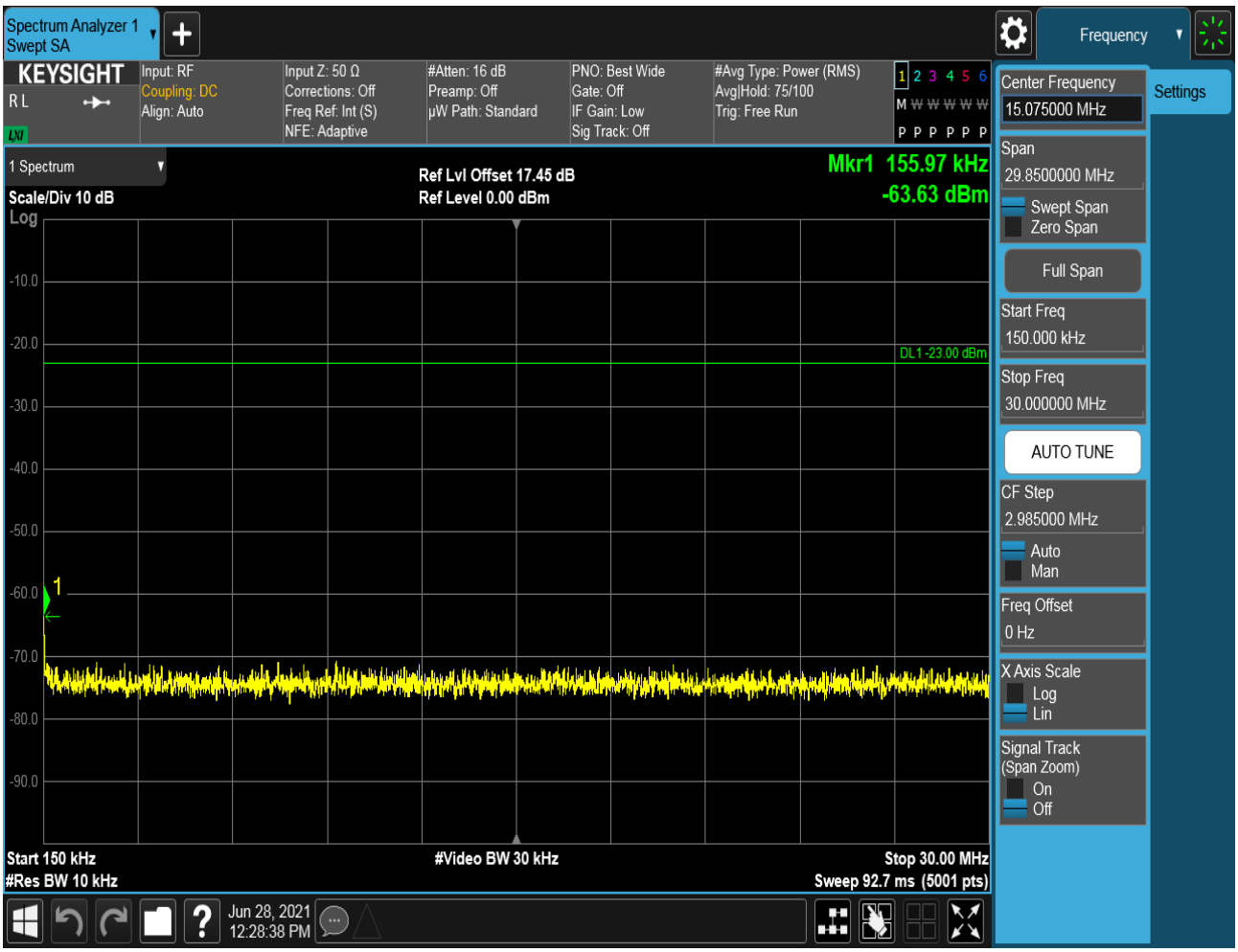
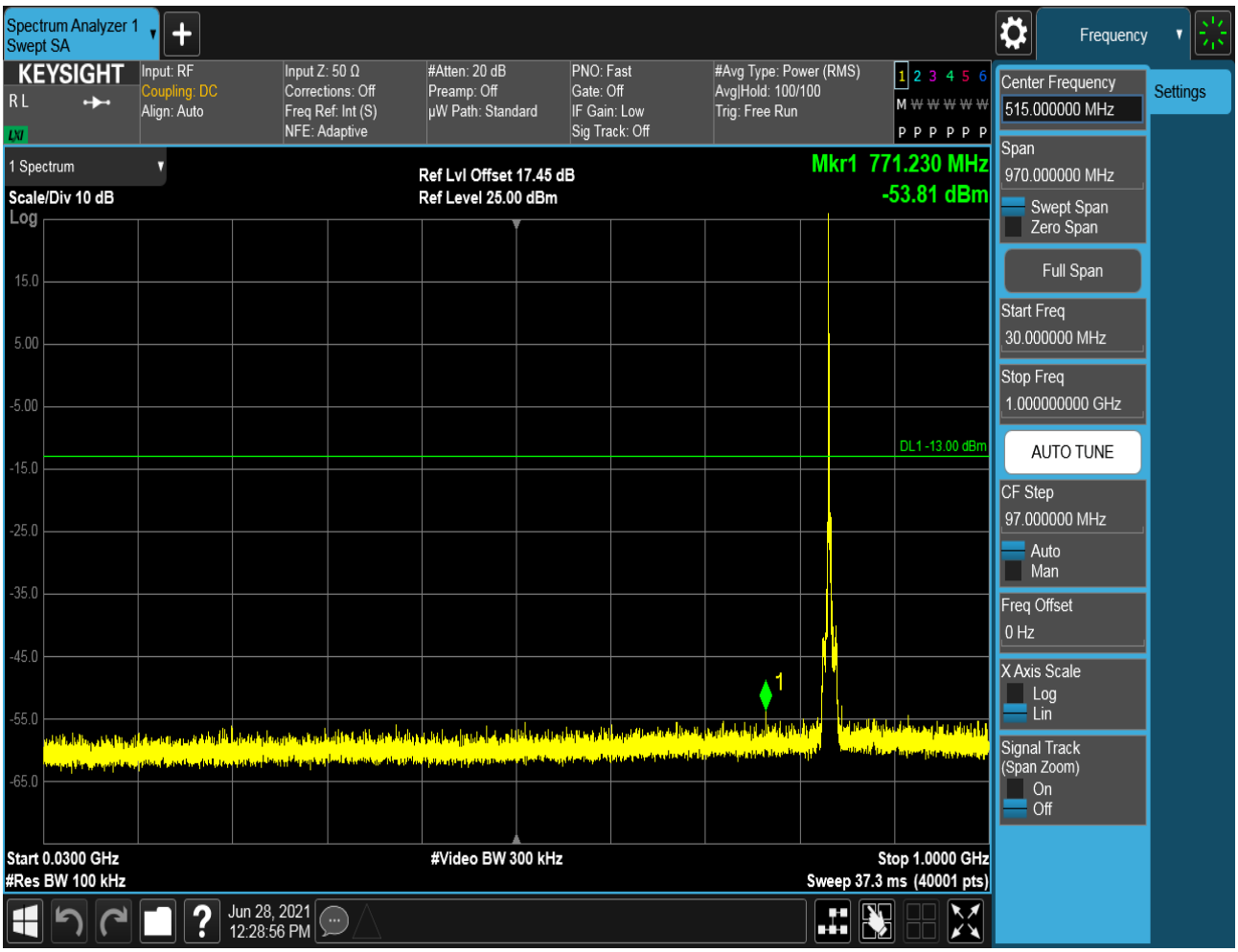
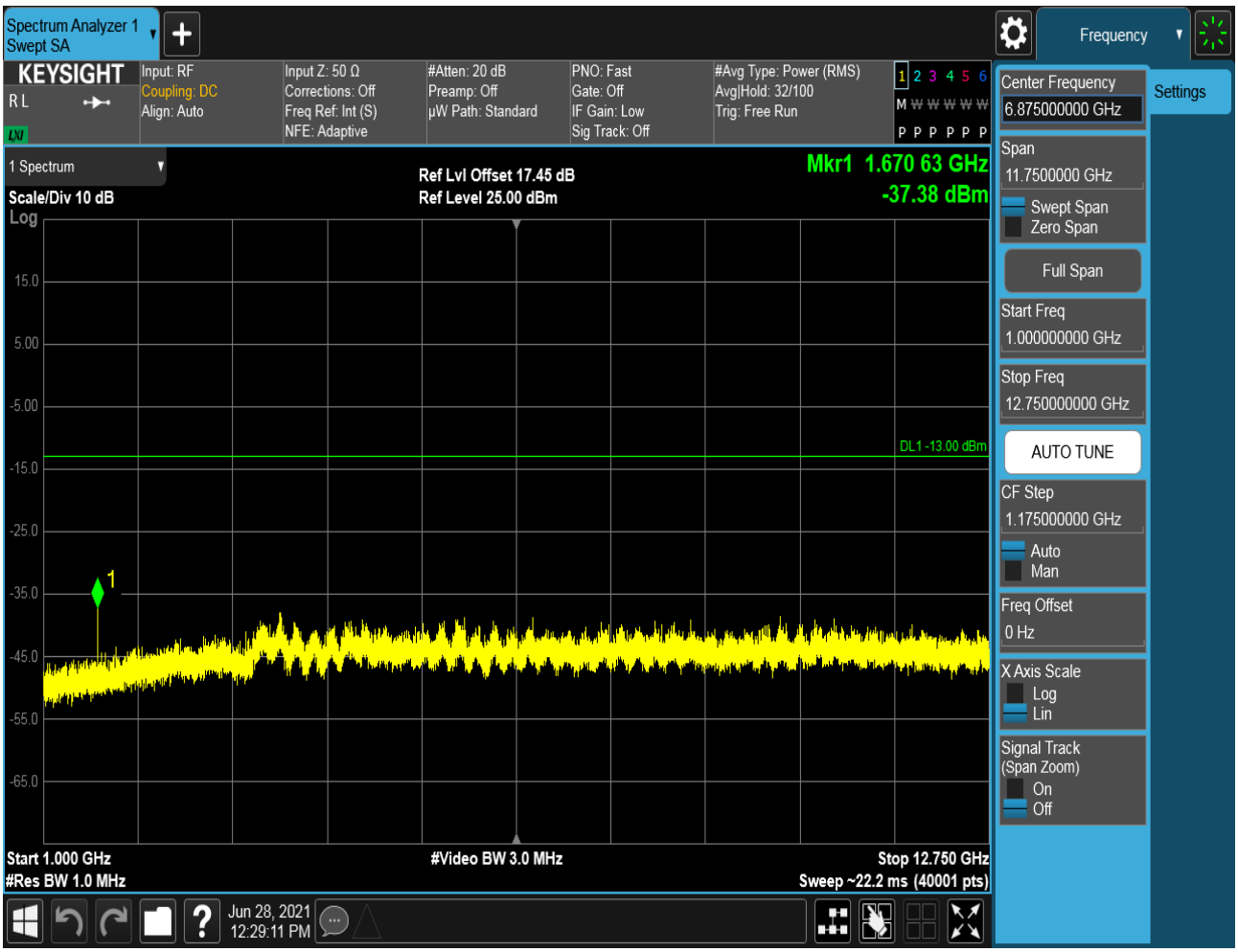

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 16 dB
Preamp: Off
µW Path: Standard
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 75/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.45 dB
Ref Level 0.00 dBm
Mkr1 155.97 kHz
-63.63 dBm
DL1 -23.00 dBm
Start 150 kHz
#Res BW 10 kHz
#Video BW 30 kHz
Stop 30.00 MHz
Sweep 92.7 ms (5001 pts)
Jun 28, 2021
12:28:38 PM
Frequency
Settings
Center Frequency
15.075000 MHz
Span
29.8500000 MHz
Swept Span
Zero Span
Full Span
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
AUTO TUNE
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 20 dB
Preamp: Off
µW Path: Standard
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.45 dB
Ref Level 25.00 dBm
Mkr1 771.230 MHz
-53.81 dBm
DL1 -13.00 dBm
Start 0.0300 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 1.0000 GHz
Sweep 37.3 ms (40001 pts)
Jun 28, 2021
12:28:56 PM
Frequency
Settings
Center Frequency
515.000000 MHz
Span
970.000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
30.000000 MHz
Stop Freq
1.000000000 GHz
AUTO TUNE
CF Step
97.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off



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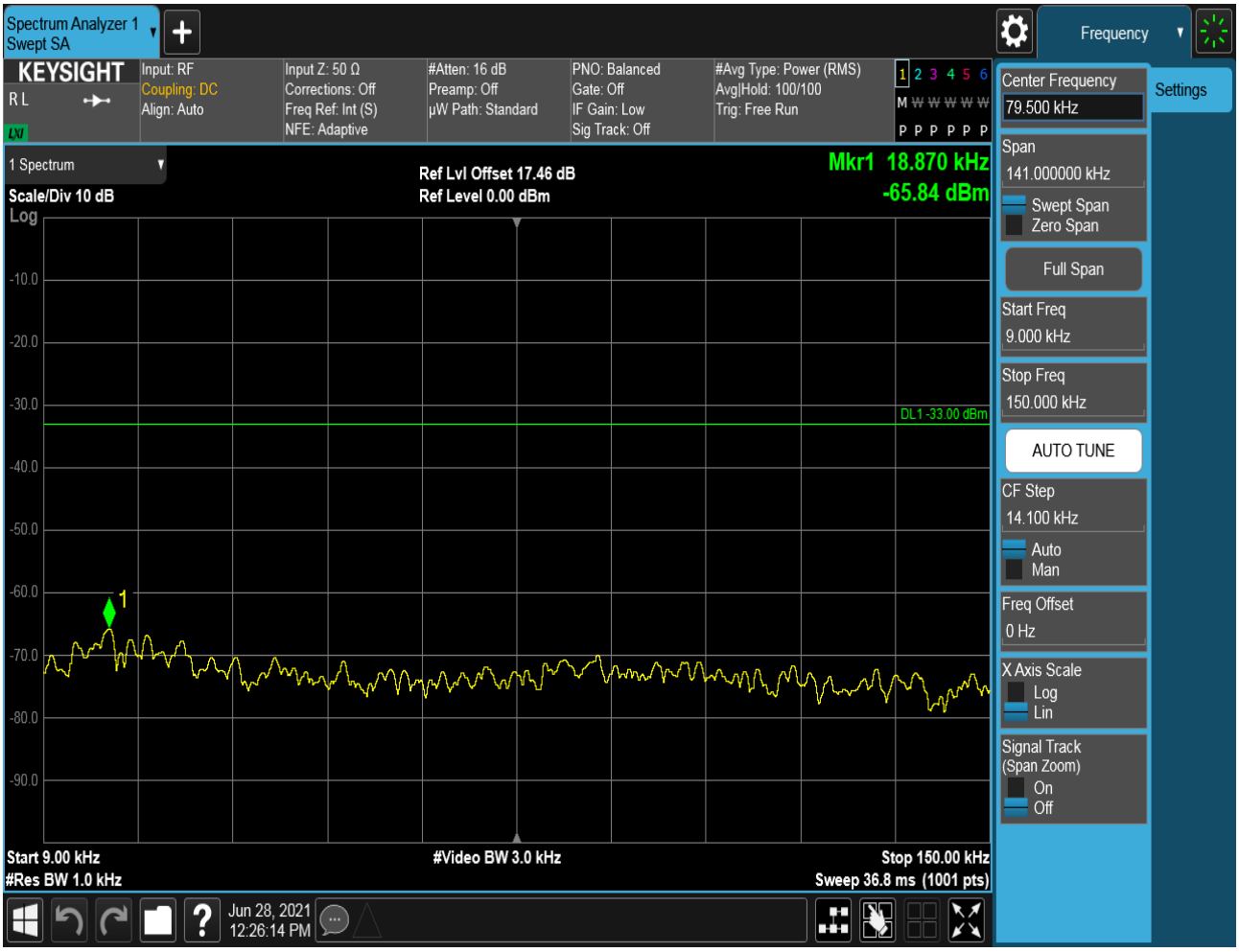
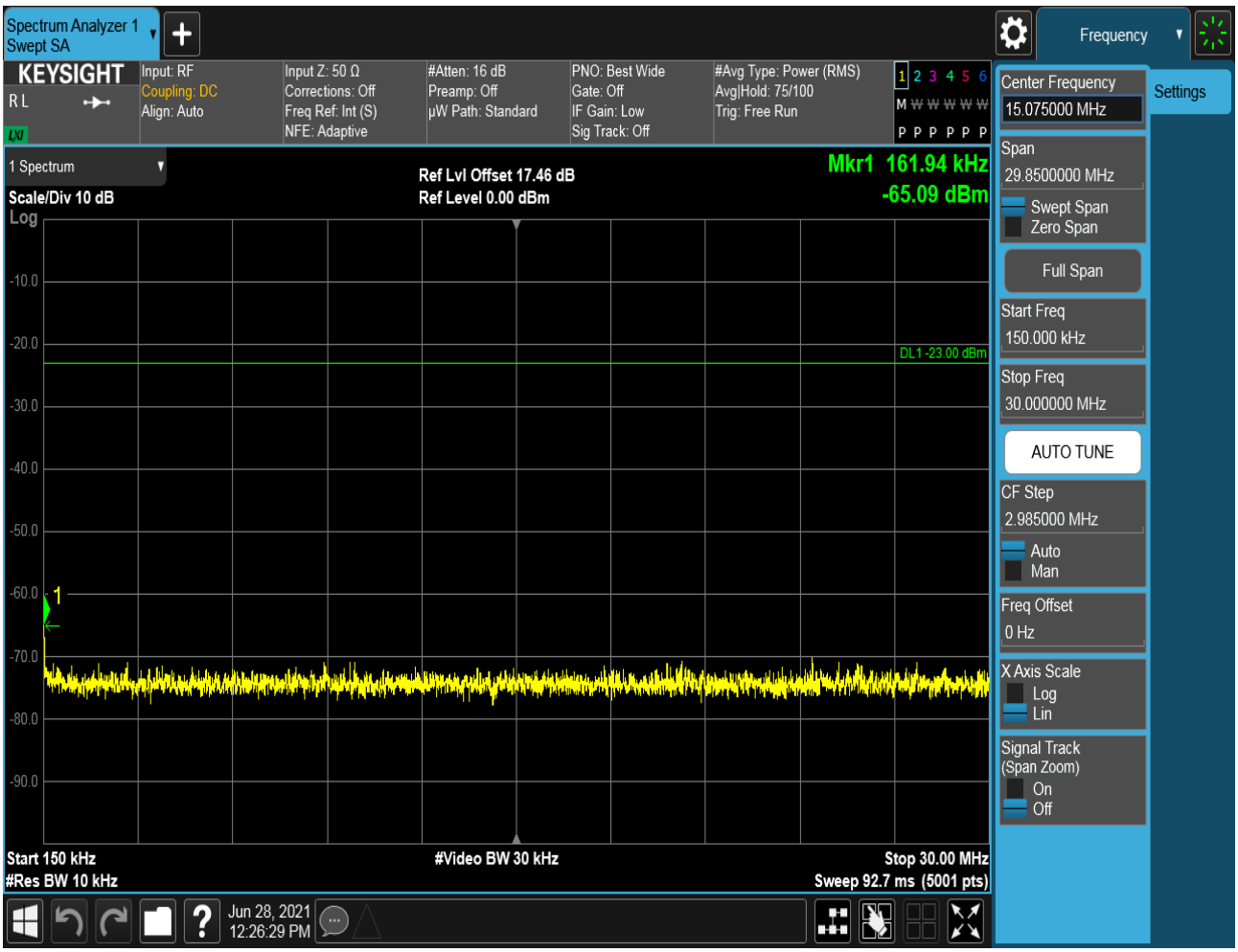
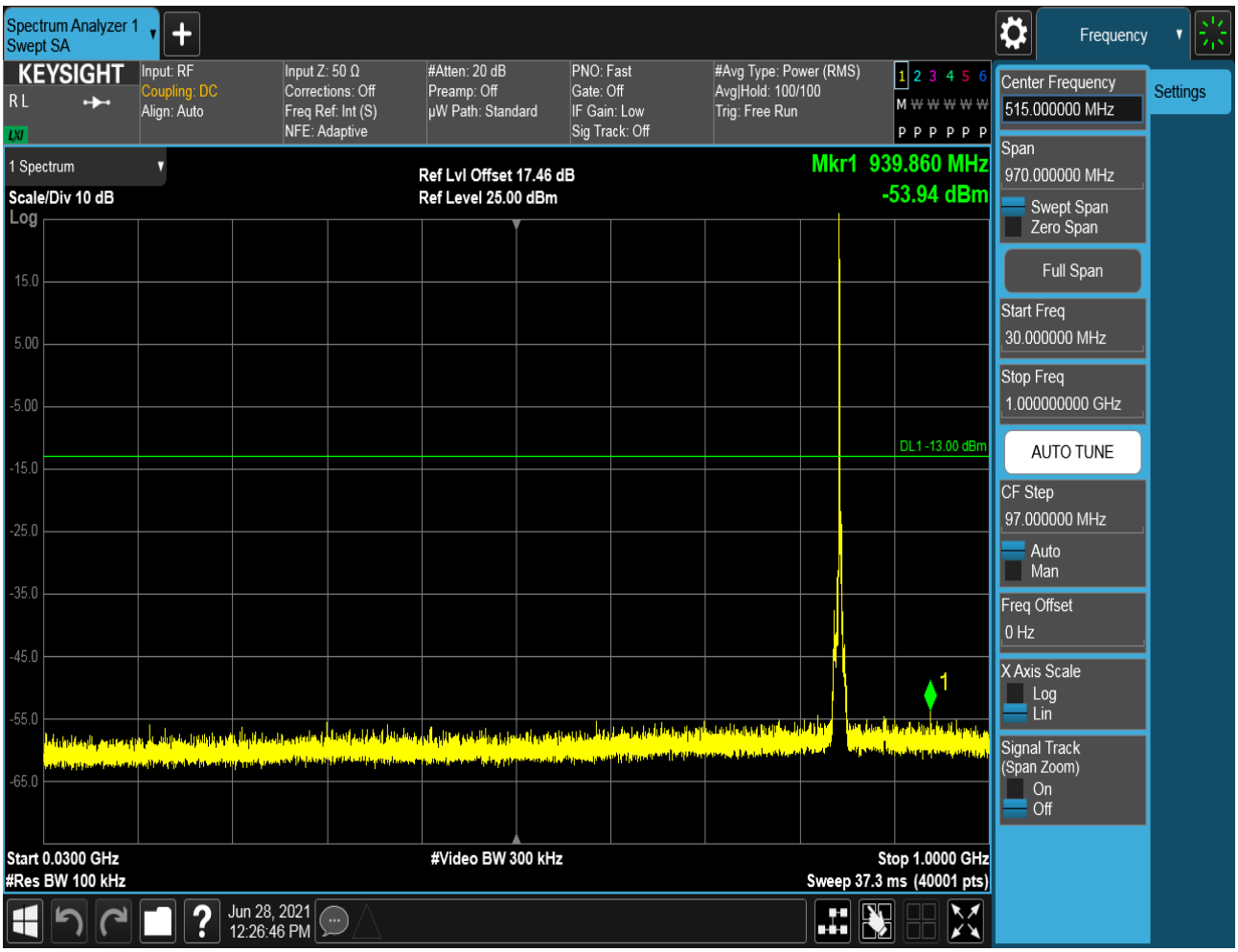
6.2.1.1.2.3 Test Channel = HCH

6.2.1.1.2.3.1 Test RB = RB1#0




Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 16 dB
Preamp: Off
µW Path: Standard
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 75/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.46 dB
Ref Level 0.00 dBm
Mkr1 161.94 kHz
-65.09 dBm
DL1 -23.00 dBm
Start 150 kHz
#Res BW 10 kHz
#Video BW 30 kHz
Stop 30.00 MHz
Sweep 92.7 ms (5001 pts)
Jun 28, 2021
12:26:29 PM
Frequency
Settings
Center Frequency
15.075000 MHz
Span
29.8500000 MHz
Swept Span
Zero Span
Full Span
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
AUTO TUNE
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off



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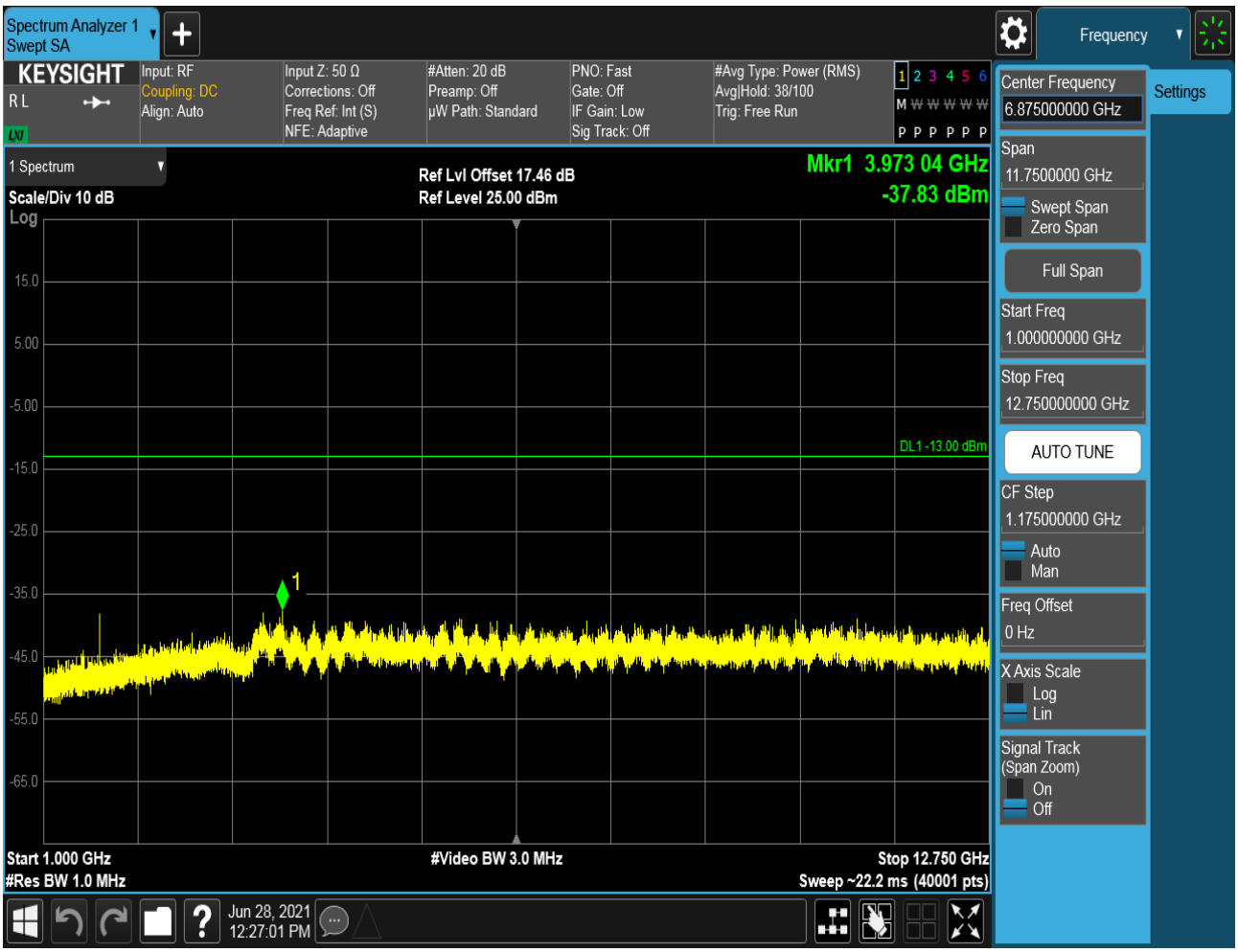

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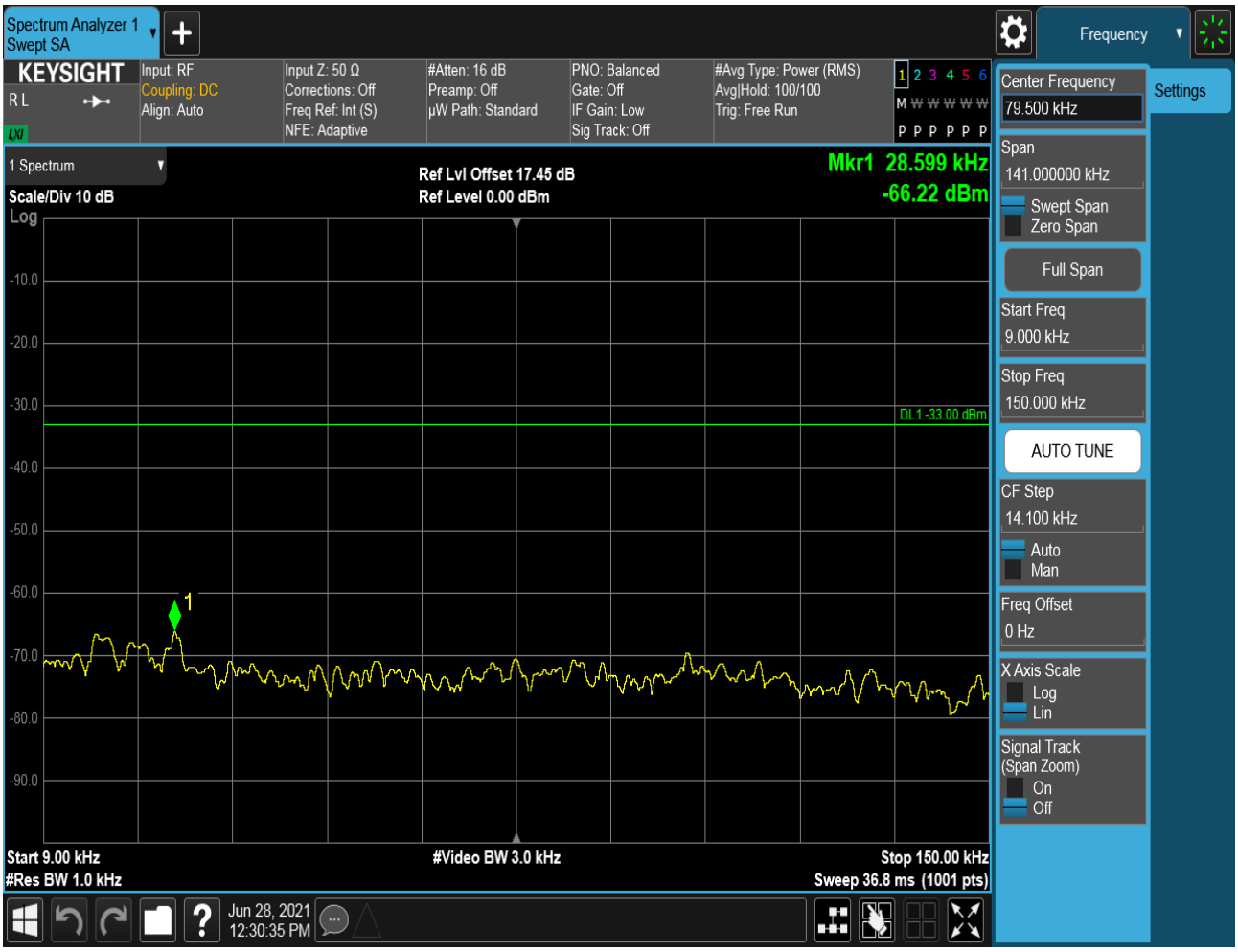
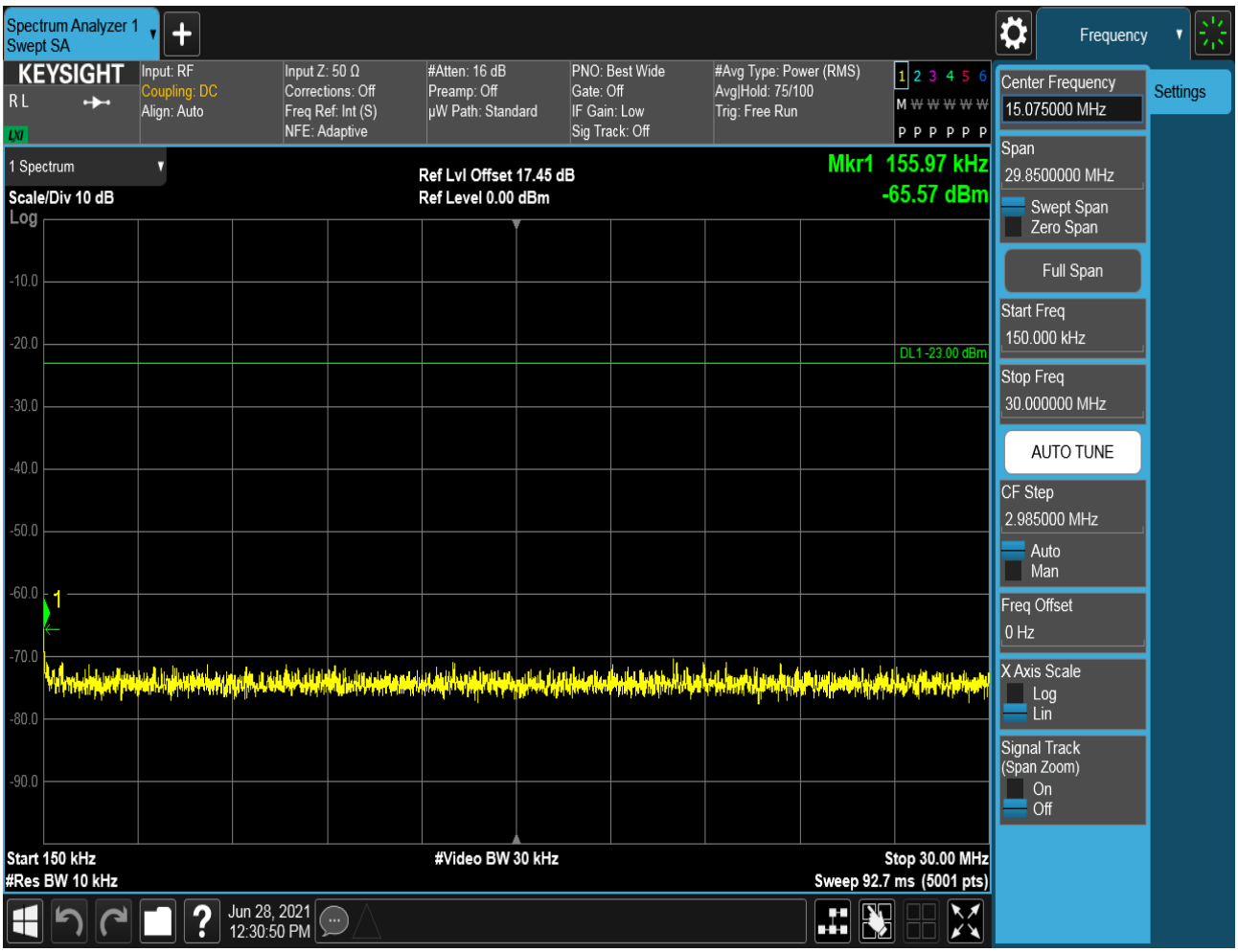
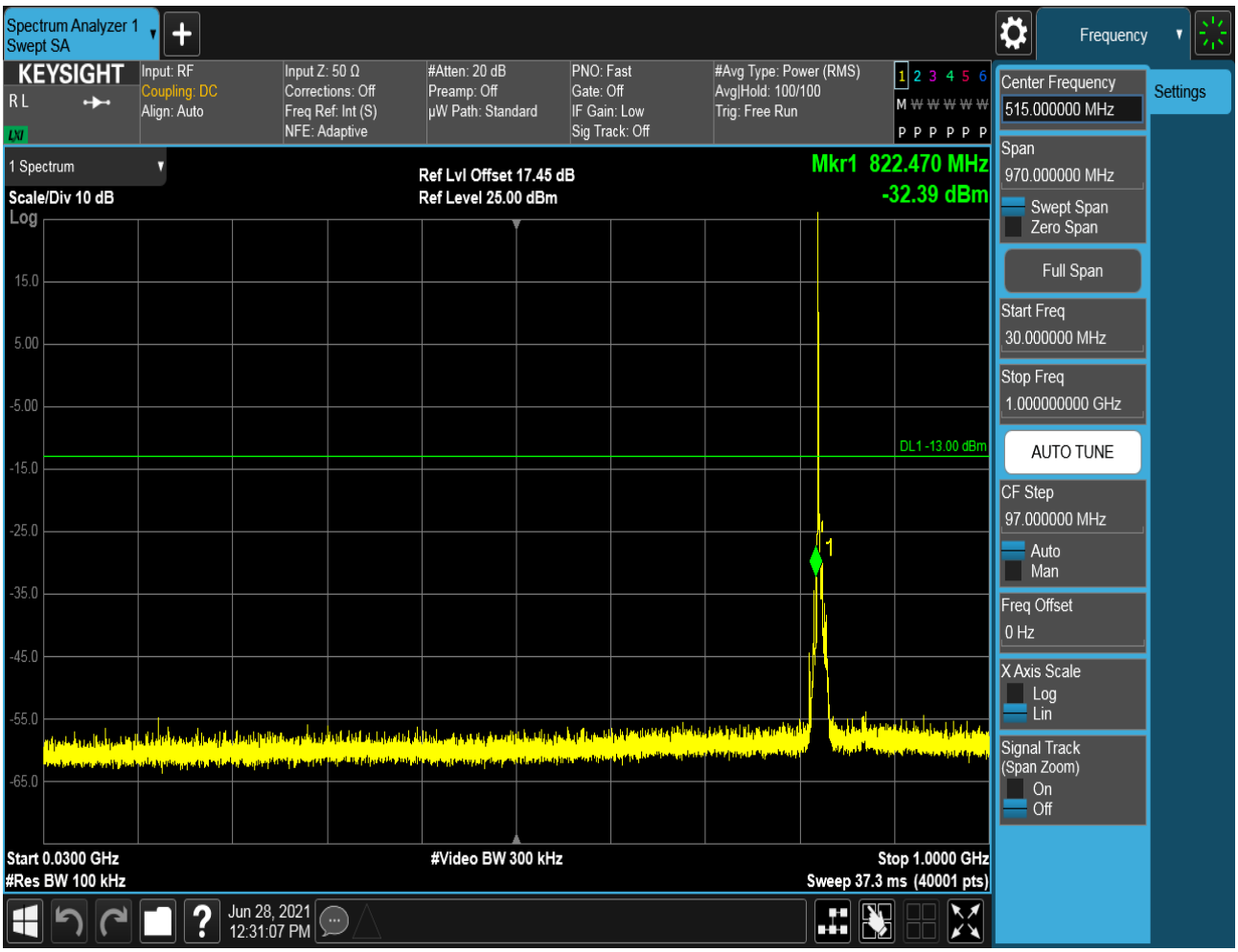
6.2.1.1.3 Test Bandwidth = 5MHz

6.2.1.1.3.1 Test Channel = LCH

6.2.1.1.3.1.1 Test RB = RB1#0




Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 16 dB
Preamp: Off
µW Path: Standard
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 75/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.45 dB
Ref Level 0.00 dBm
Mkr1 155.97 kHz
-65.57 dBm
DL1 -23.00 dBm
Start 150 kHz
#Res BW 10 kHz
#Video BW 30 kHz
Stop 30.00 MHz
Sweep 92.7 ms (5001 pts)
Jun 28, 2021
12:30:50 PM
Frequency
Settings
Center Frequency
15.075000 MHz
Span
29.8500000 MHz
Swept Span
Zero Span
Full Span
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
AUTO TUNE
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off



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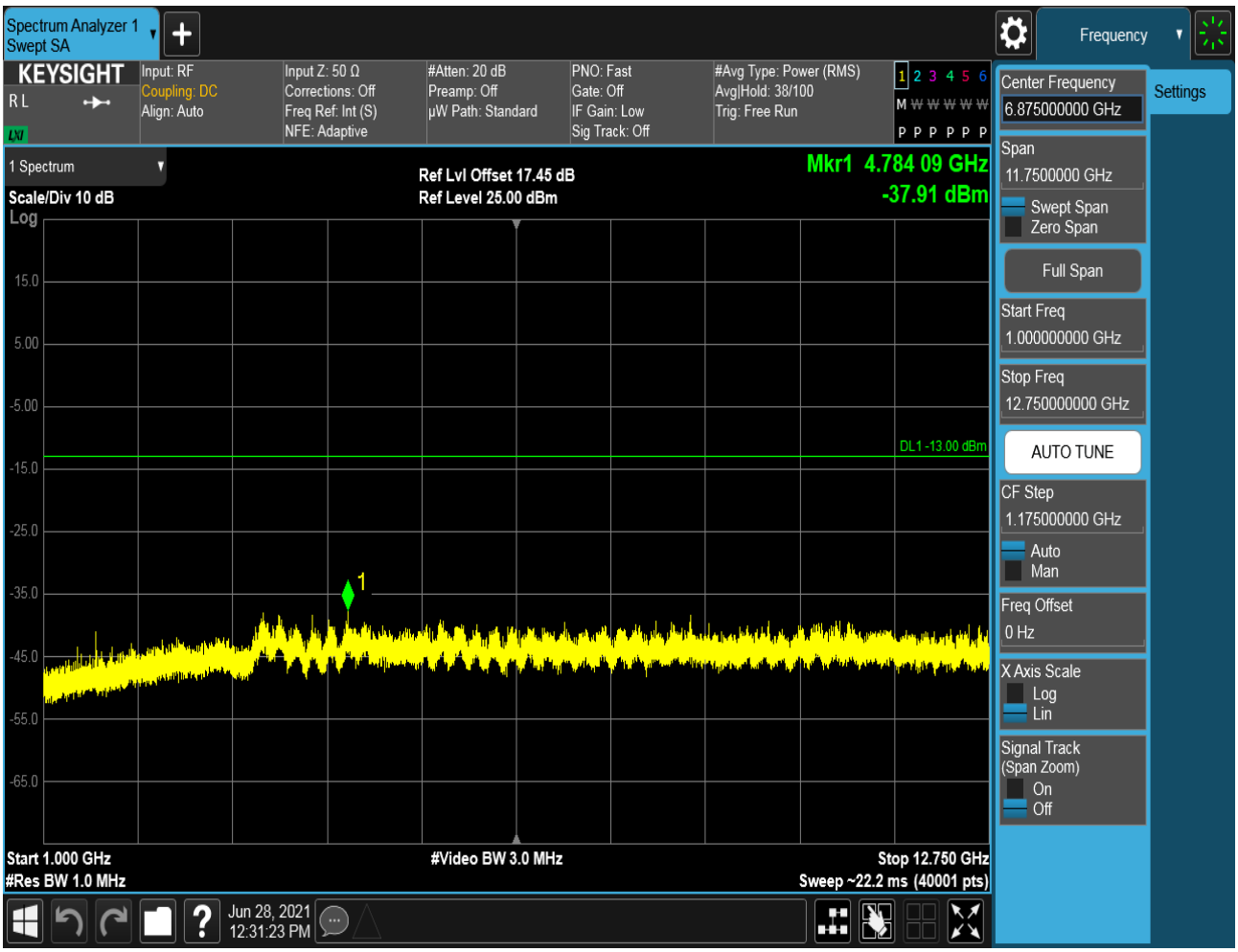

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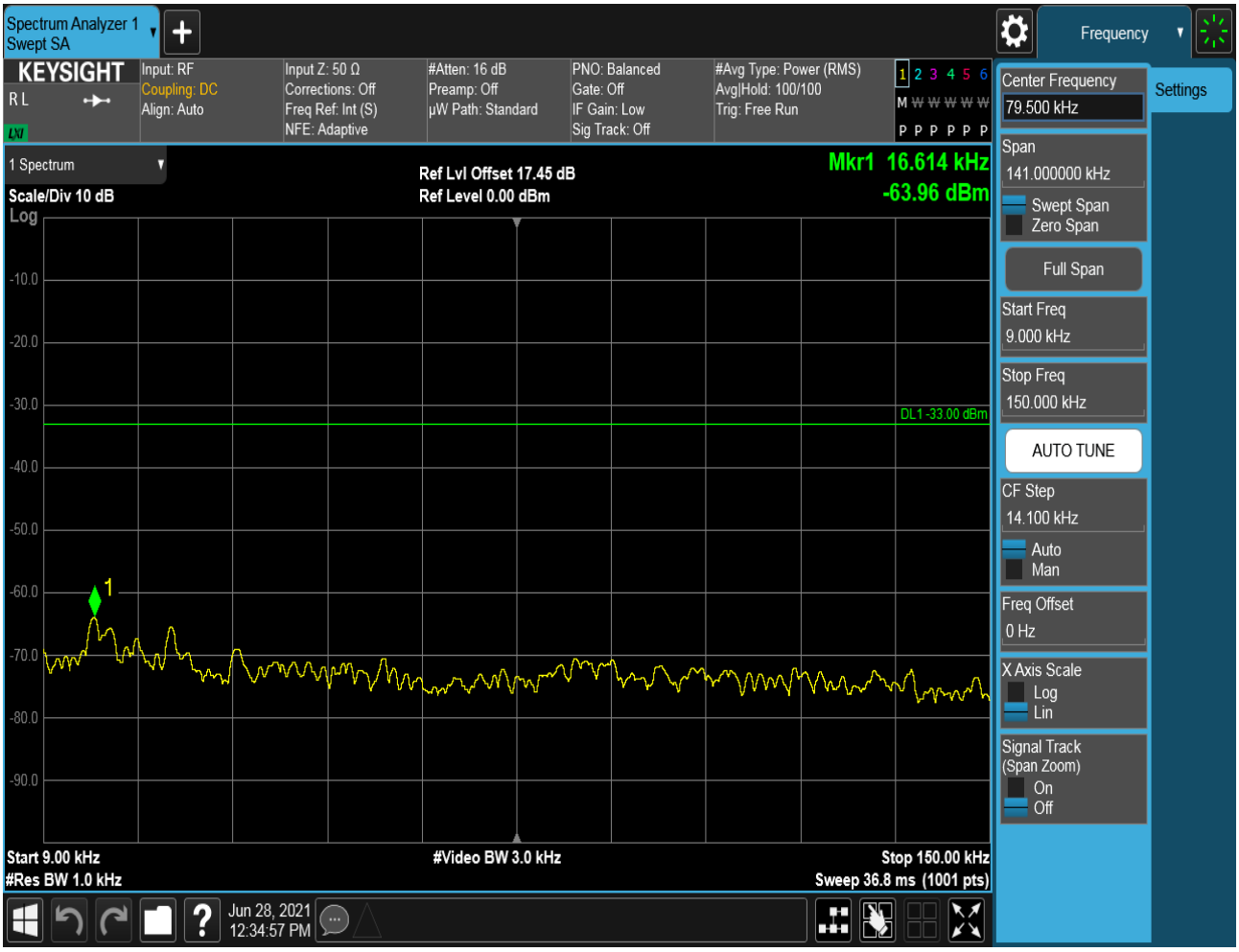
6.2.1.1.3.2 Test Channel = MCH

6.2.1.1.3.2.1 Test RB = RB1#0



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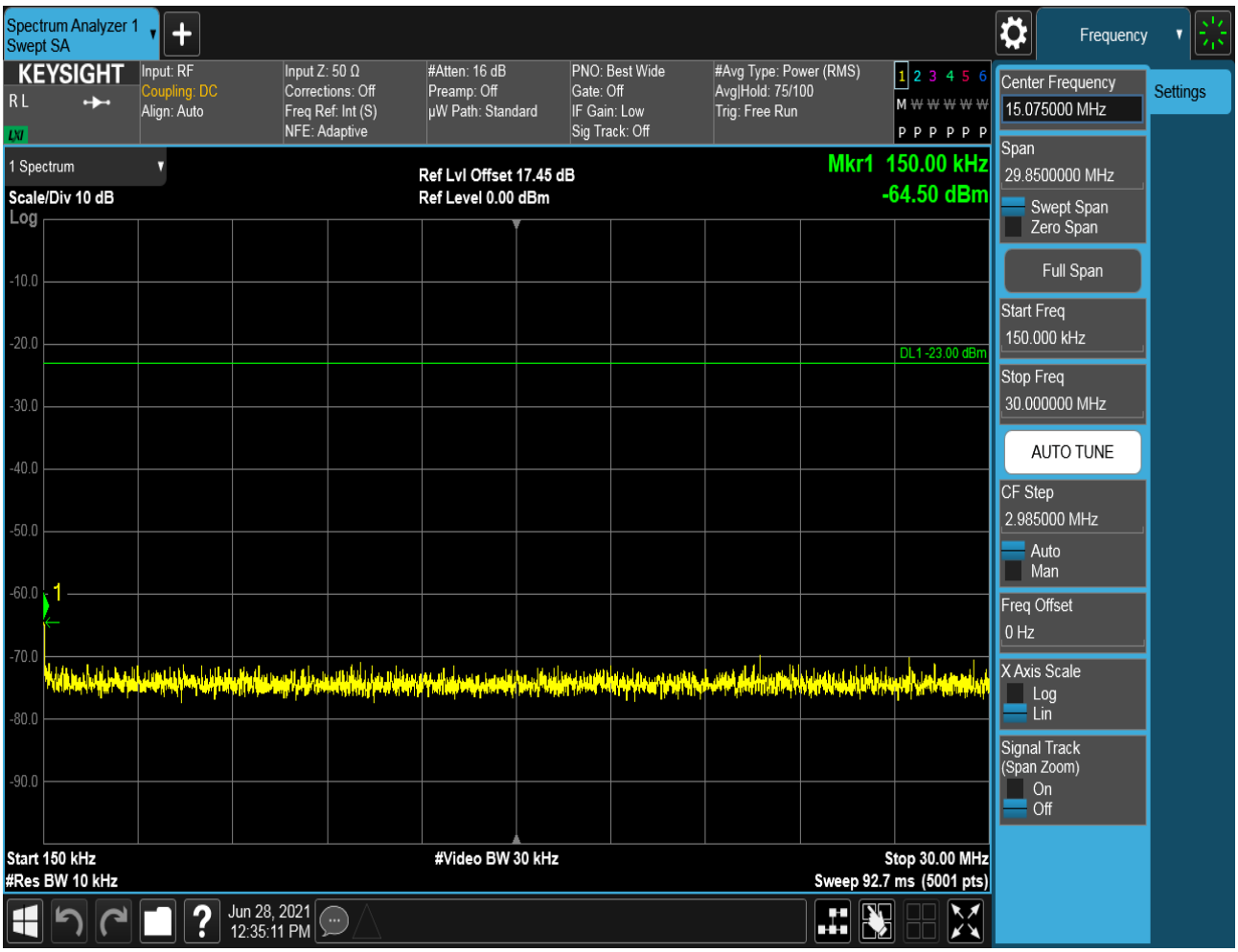

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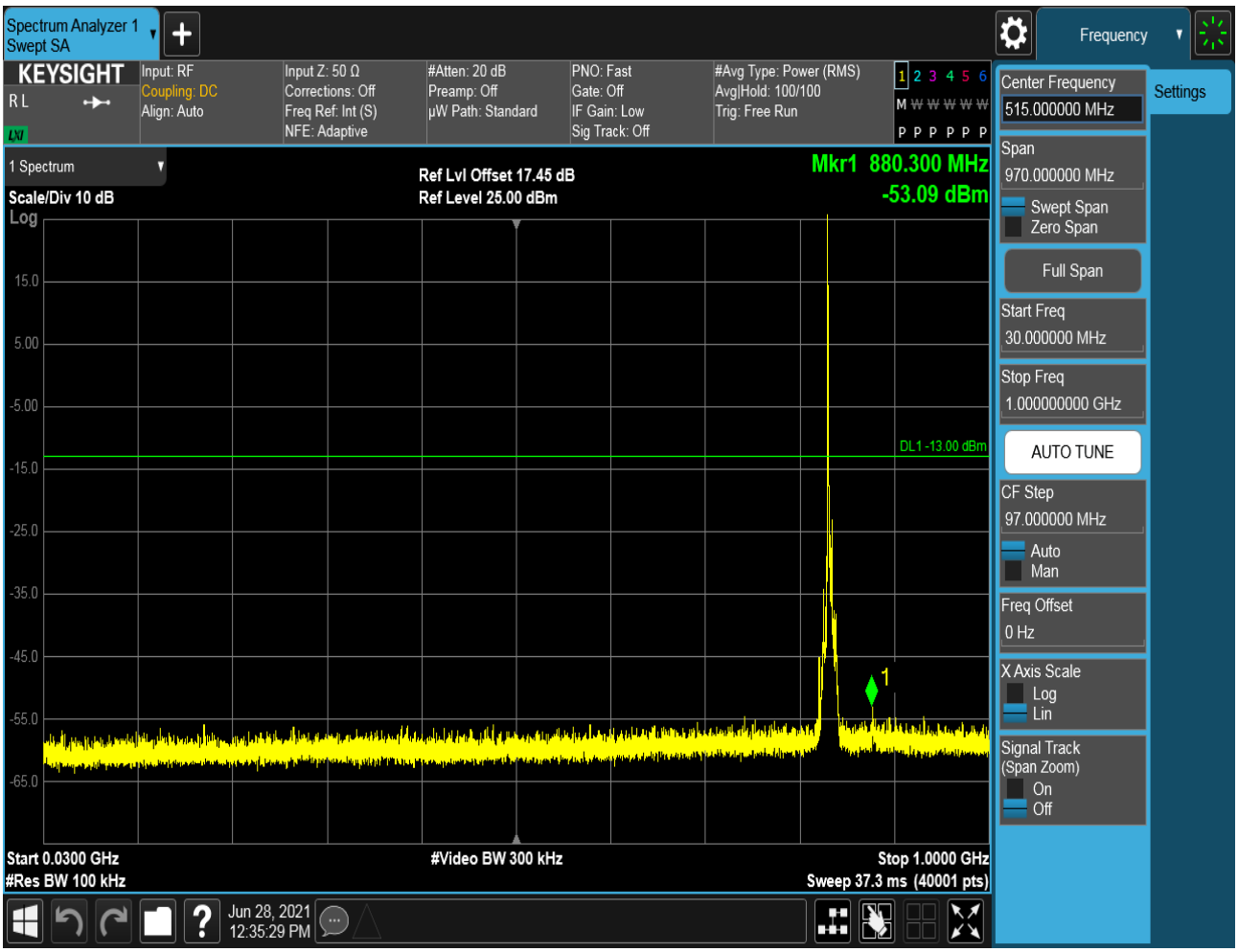

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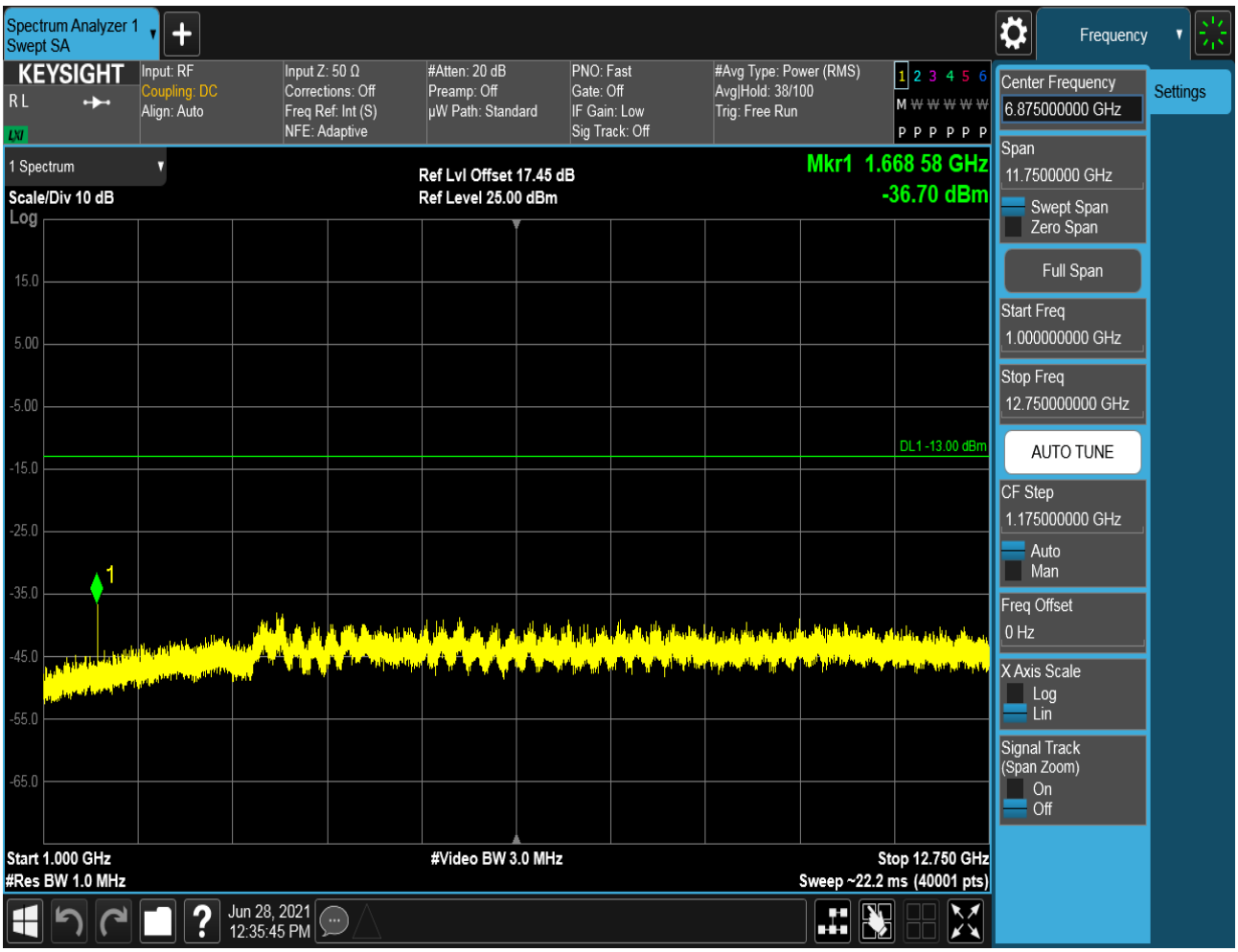

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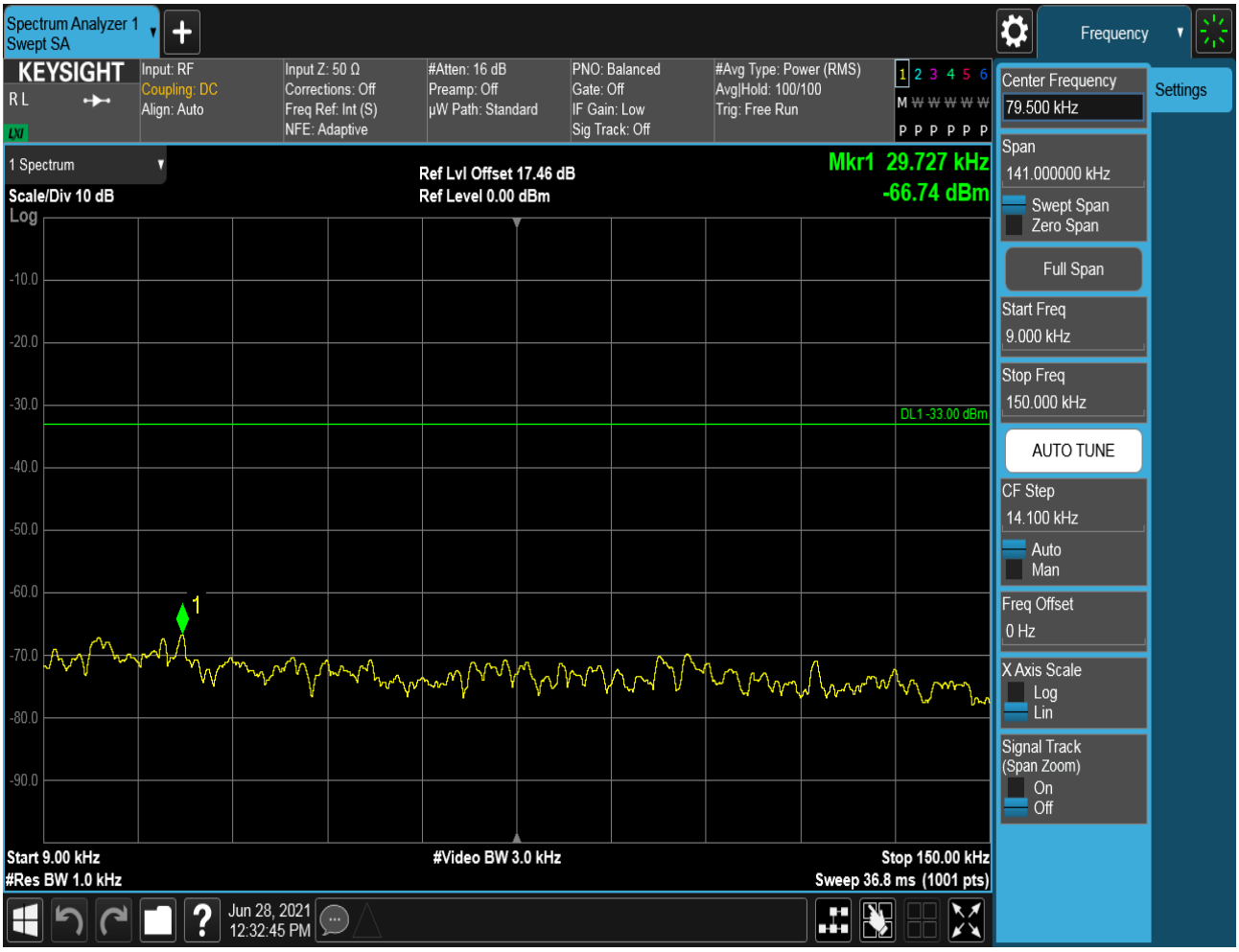
6.2.1.1.3.3 Test Channel = HCH

6.2.1.1.3.3.1 Test RB = RB1#0



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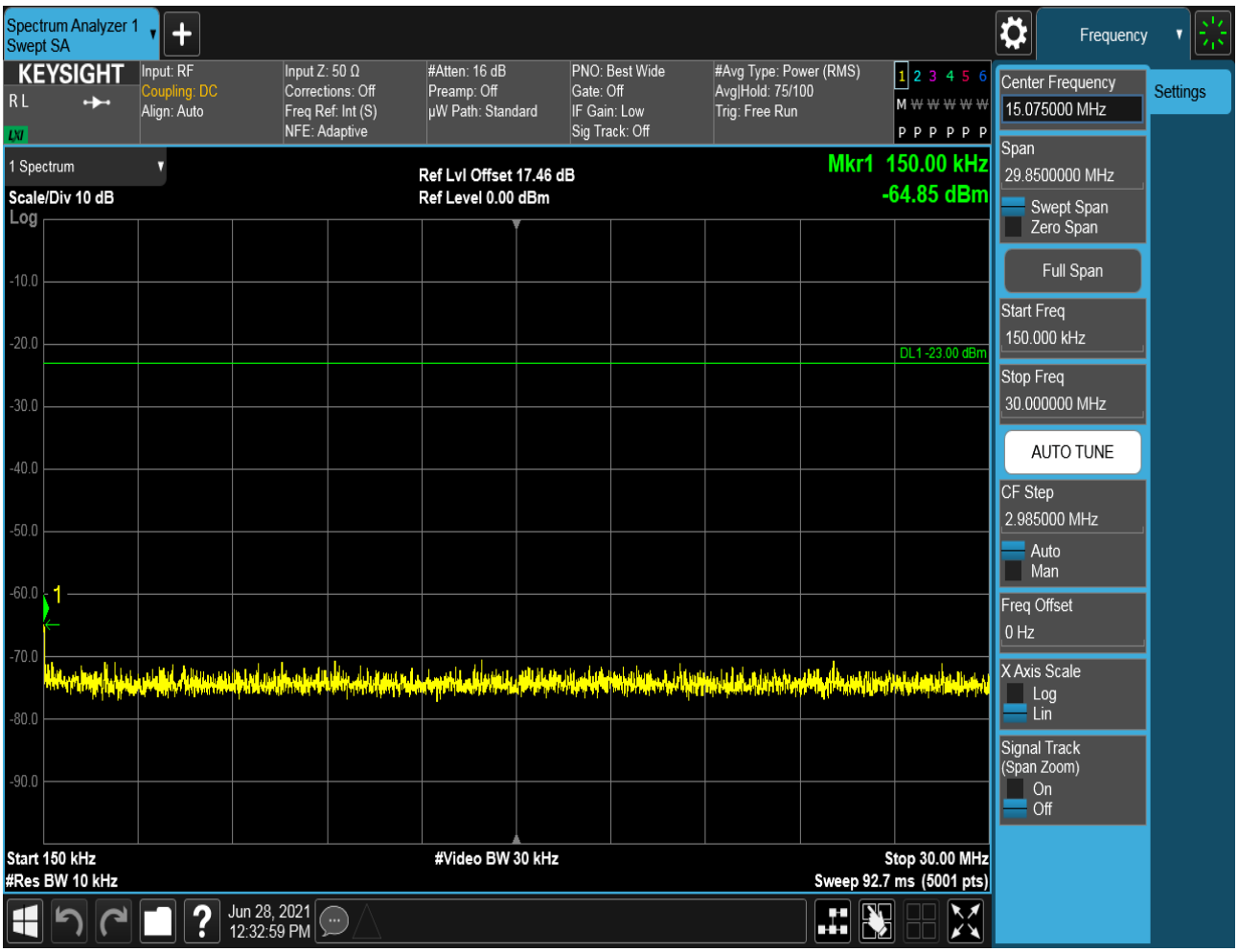

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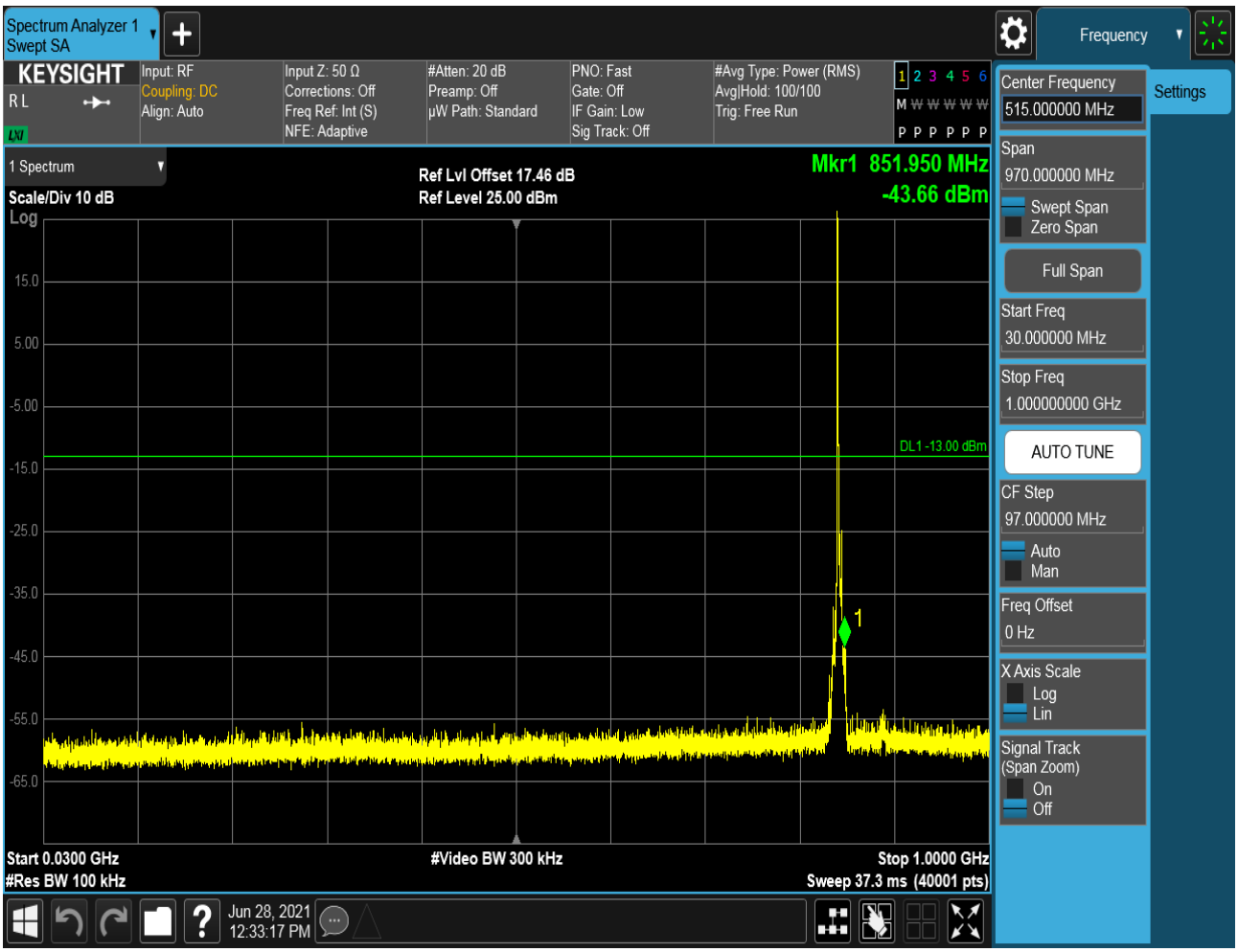

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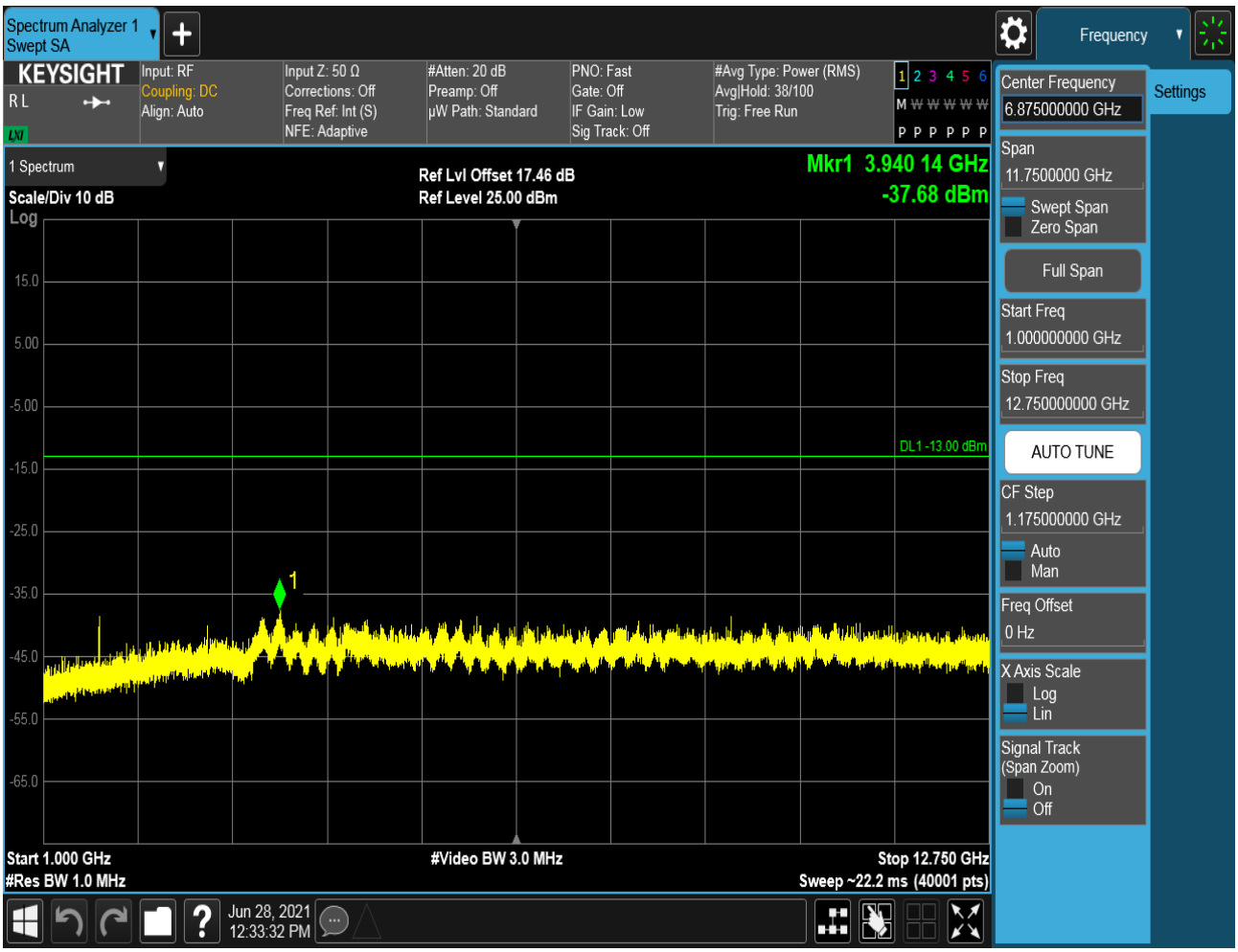

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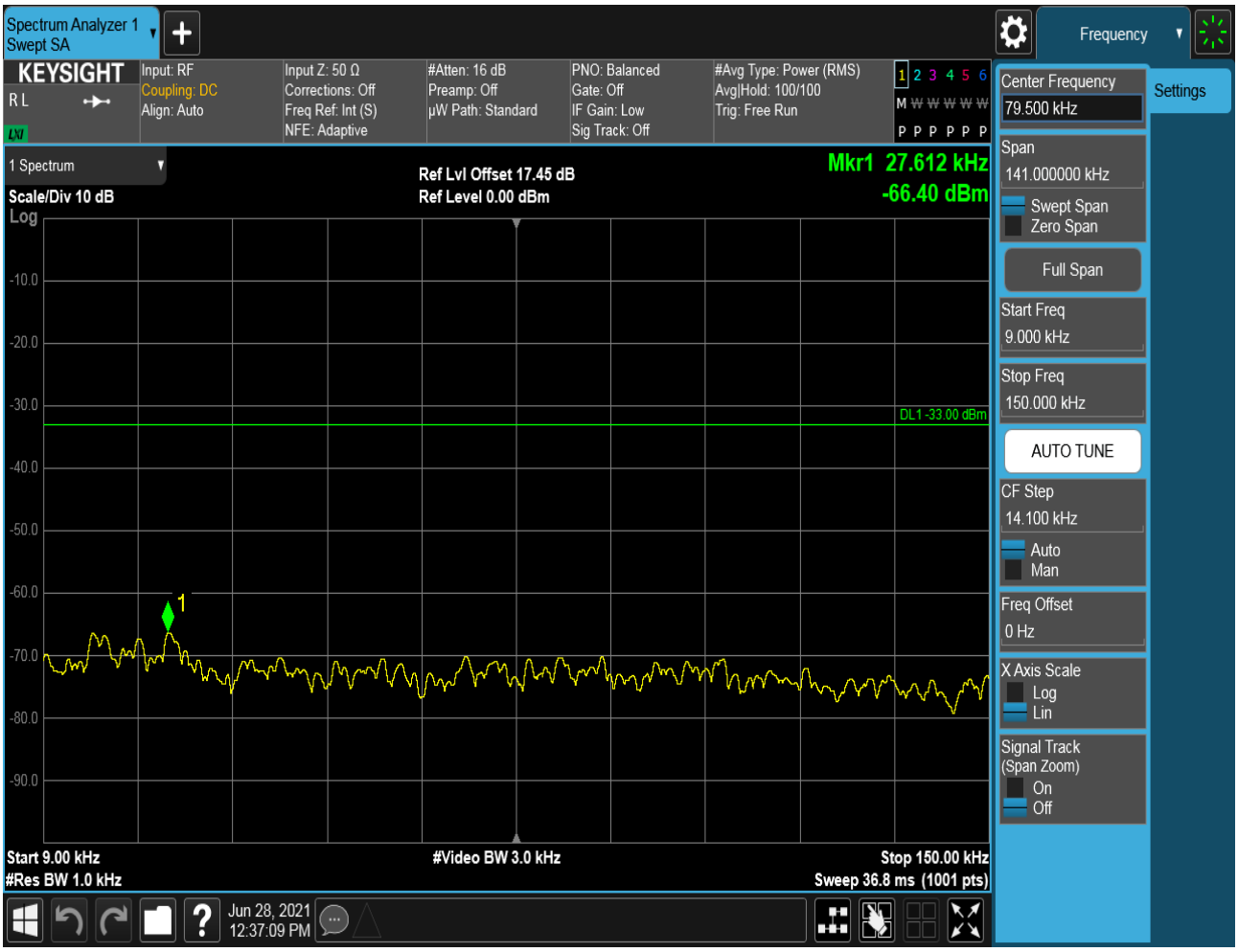
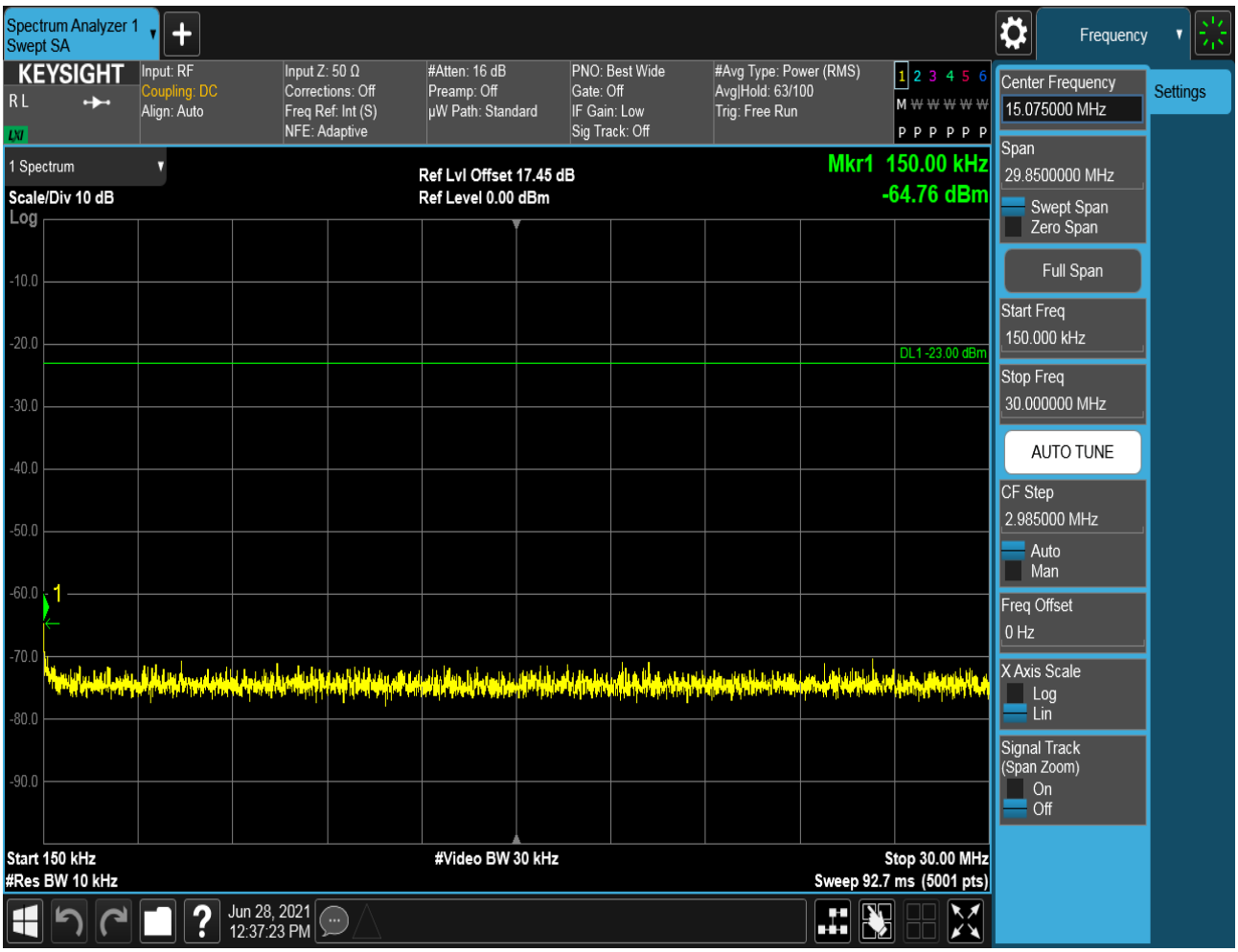
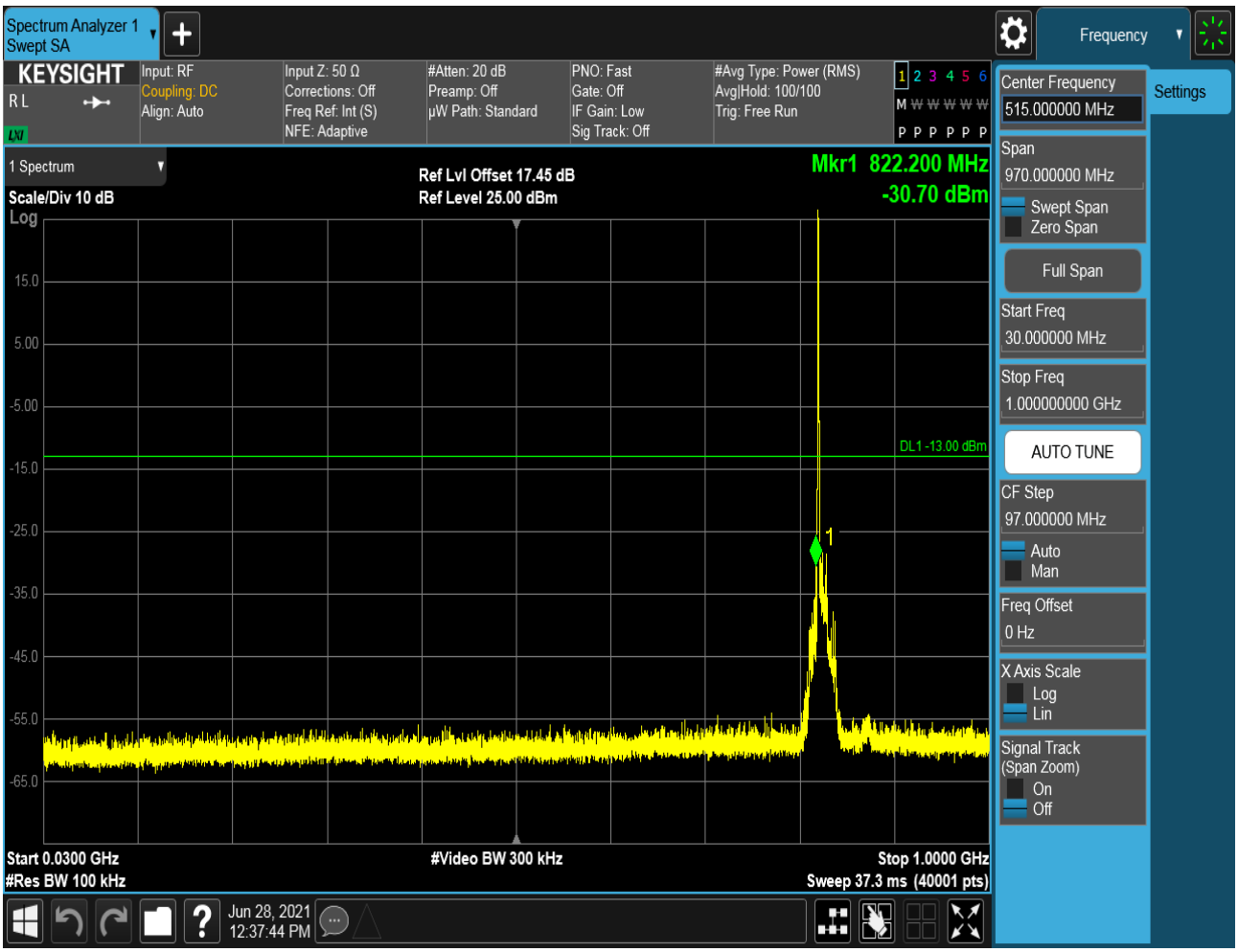
6.2.1.1.4 Test Bandwidth = 10MHz

6.2.1.1.4.1 Test Channel = LCH

6.2.1.1.4.1.1 Test RB = RB1#0




Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 16 dB
Preamp: Off
µW Path: Standard
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 63/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.45 dB
Ref Level 0.00 dBm
Mkr1 150.00 kHz
-64.76 dBm
DL1 -23.00 dBm
Start 150 kHz
#Res BW 10 kHz
#Video BW 30 kHz
Stop 30.00 MHz
Sweep 92.7 ms (5001 pts)
Jun 28, 2021
12:37:23 PM
Frequency
Settings
Center Frequency
15.075000 MHz
Span
29.8500000 MHz
Swept Span
Zero Span
Full Span
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
AUTO TUNE
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off



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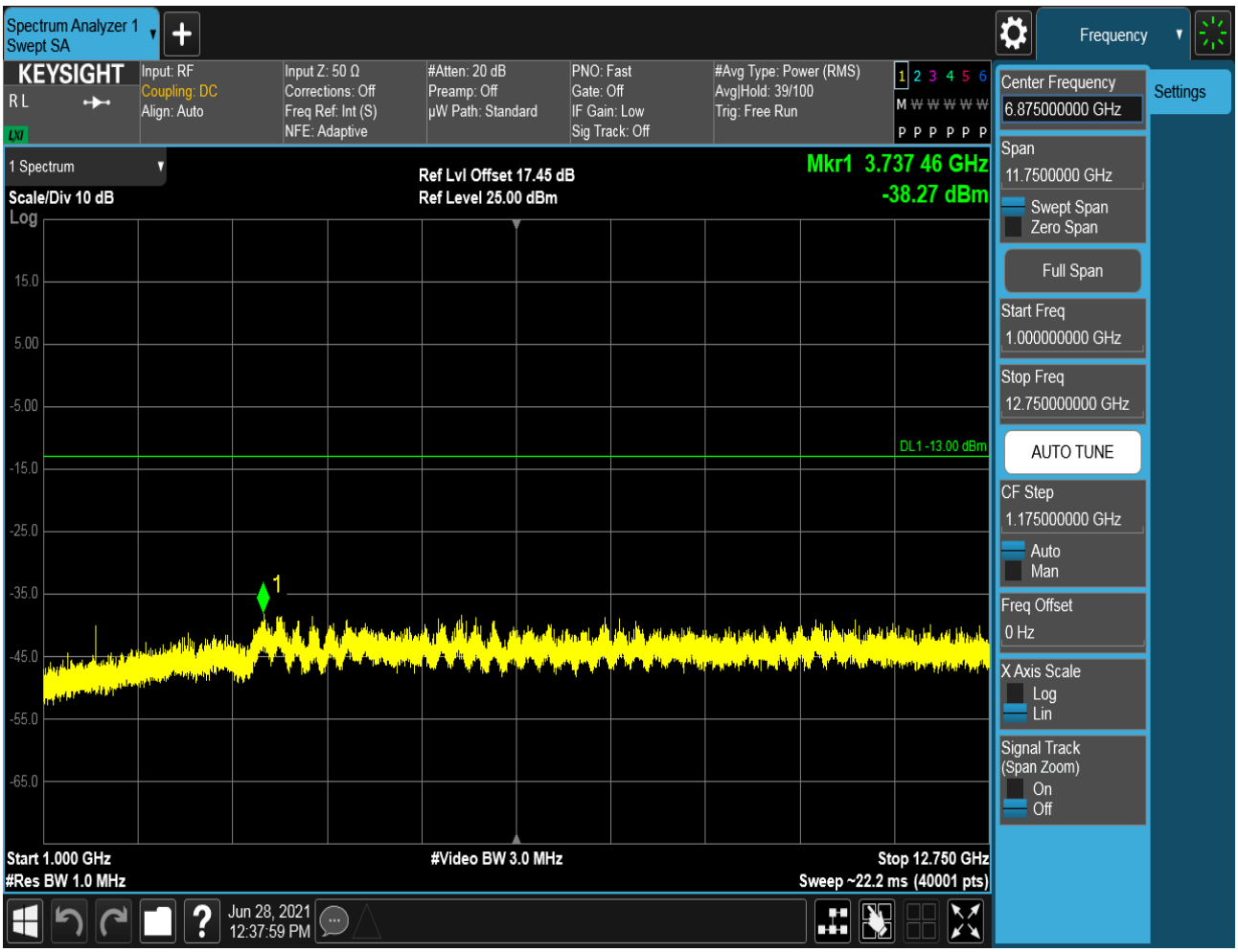

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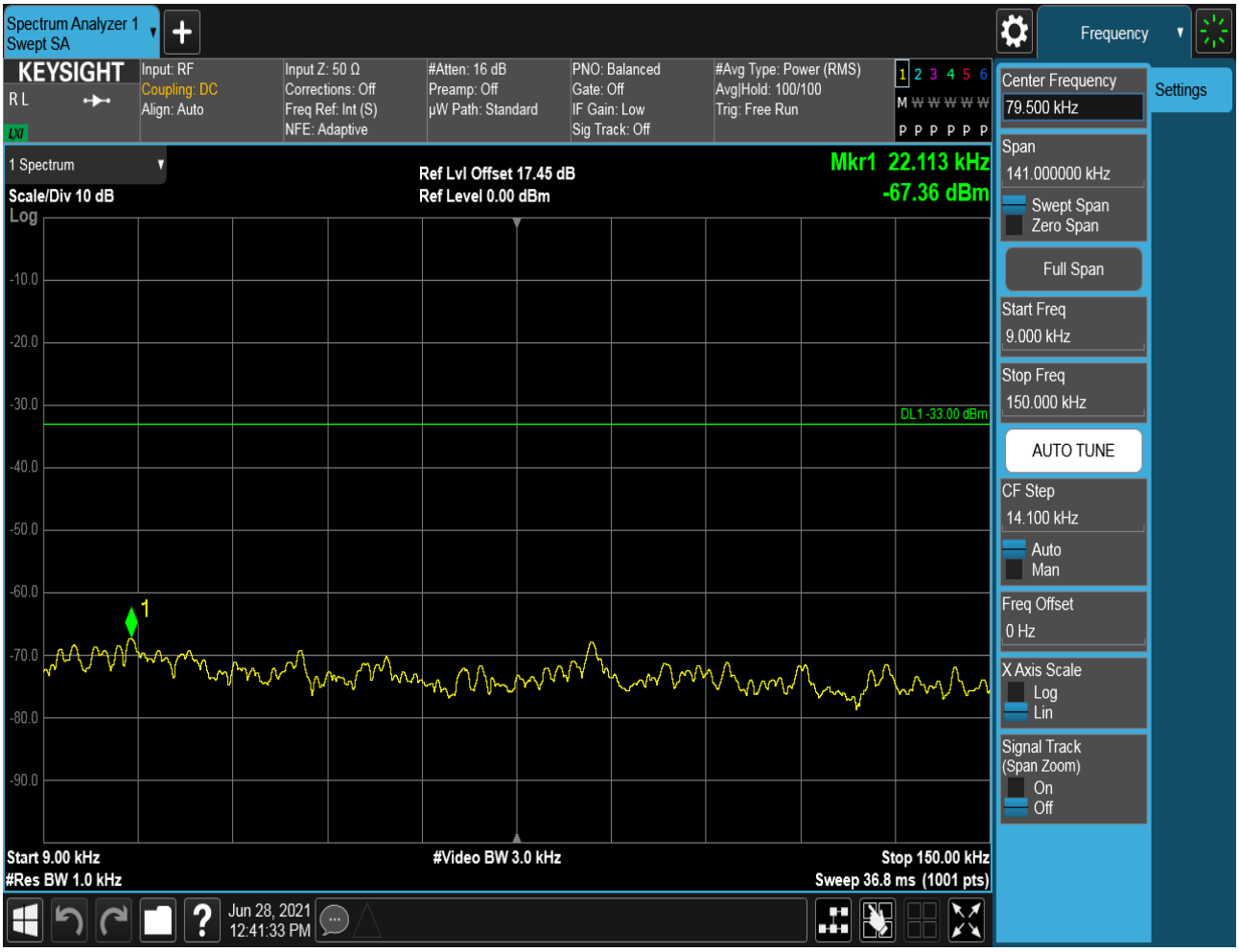
6.2.1.1.4.2 Test Channel = MCH

6.2.1.1.4.2.1 Test RB = RB1#0



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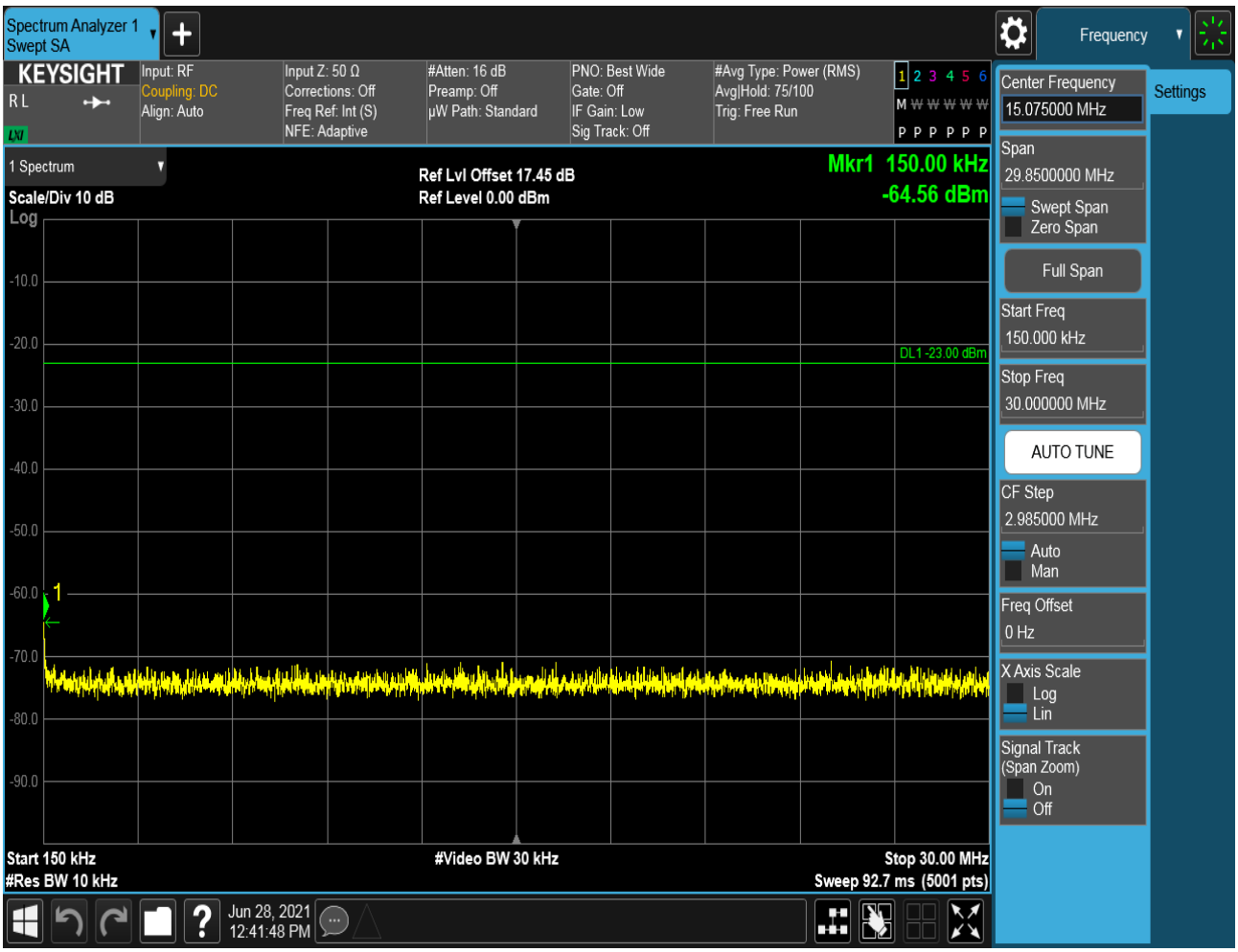
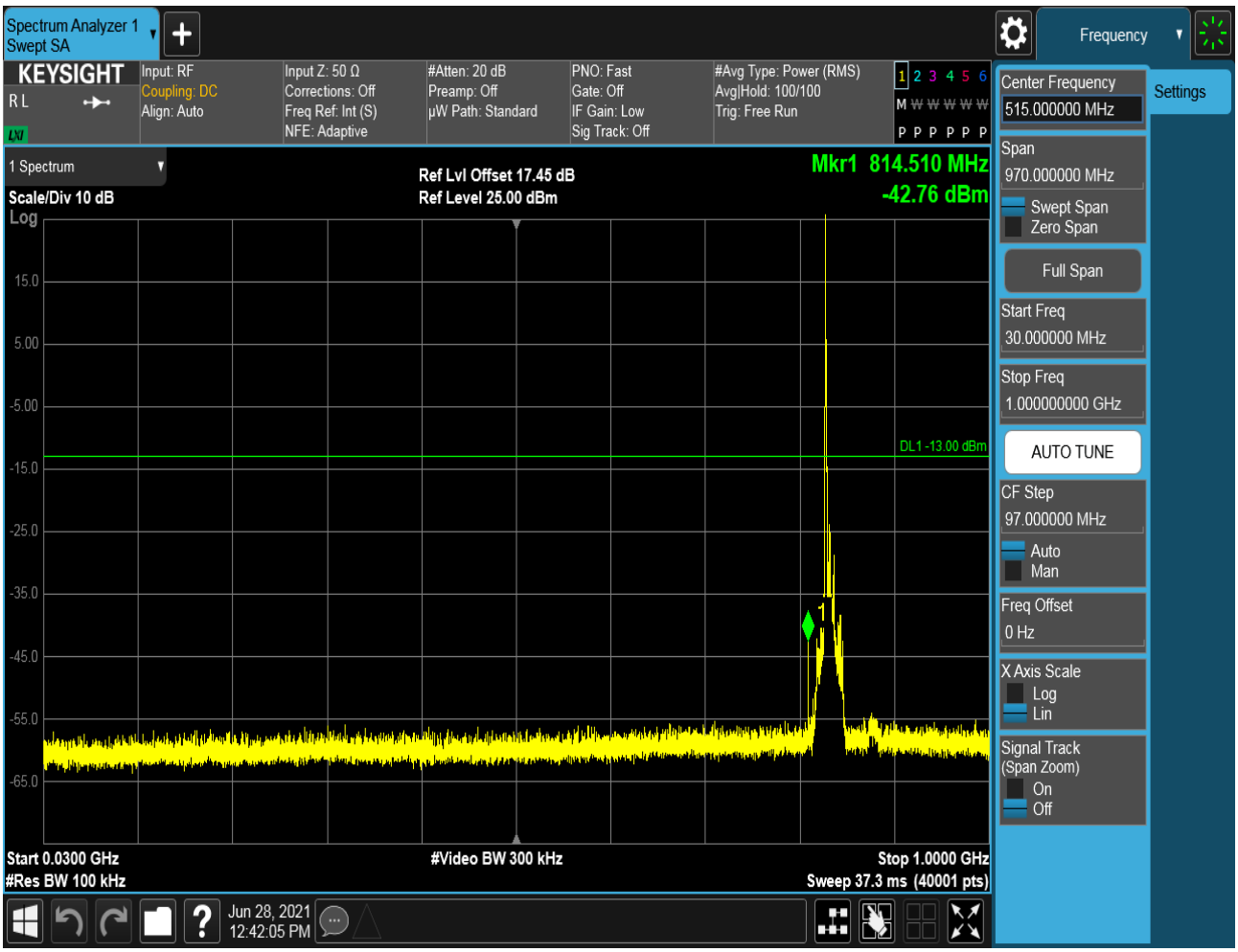

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 16 dB
Preamp: Off
µW Path: Standard
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 75/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.45 dB
Ref Level 0.00 dBm
Mkr1 150.00 kHz
-64.56 dBm
DL1 -23.00 dBm
Start 150 kHz
#Res BW 10 kHz
#Video BW 30 kHz
Stop 30.00 MHz
Sweep 92.7 ms (5001 pts)
Jun 28, 2021
12:41:48 PM
Frequency
Settings
Center Frequency
15.075000 MHz
Span
29.8500000 MHz
Swept Span
Zero Span
Full Span
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
AUTO TUNE
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off



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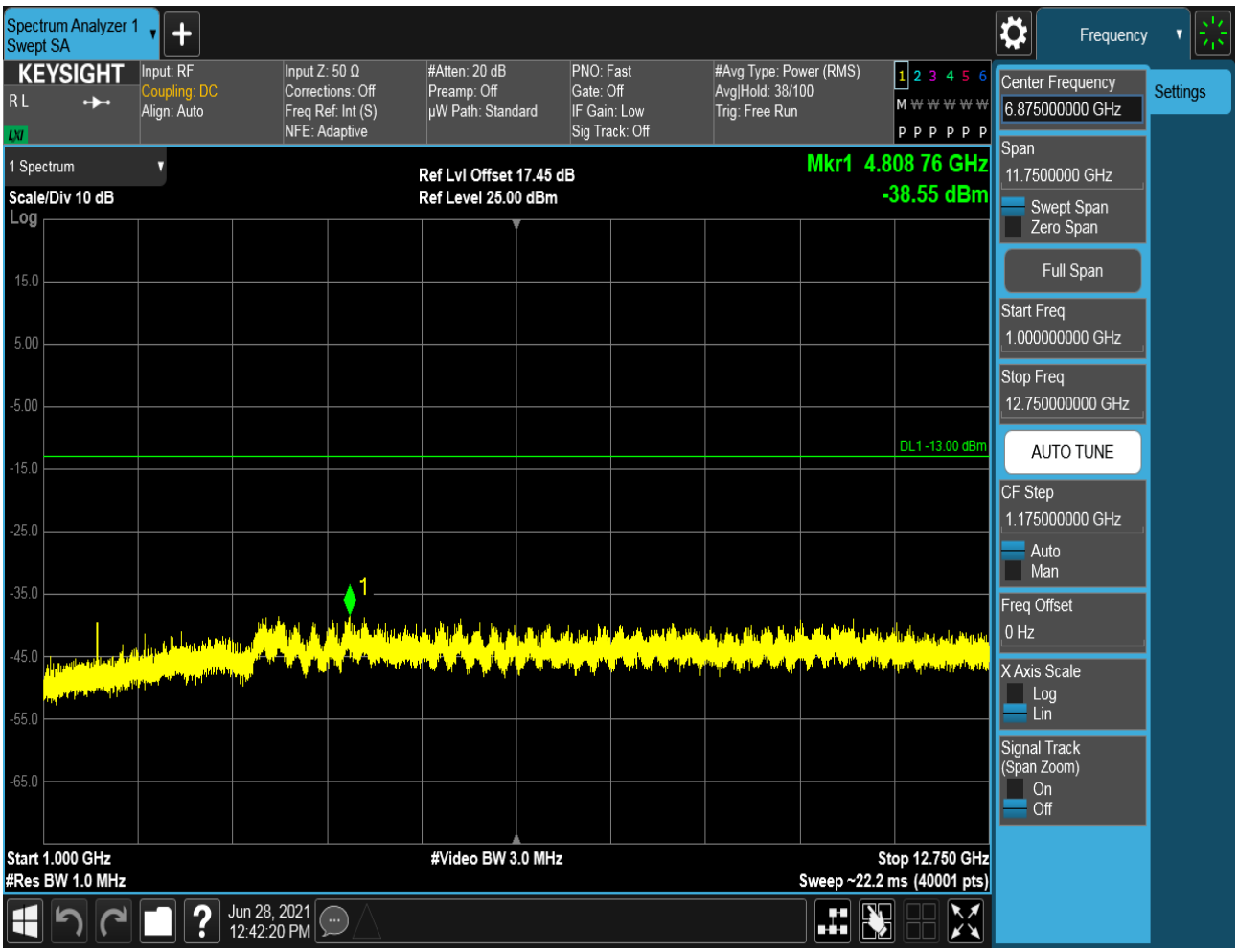

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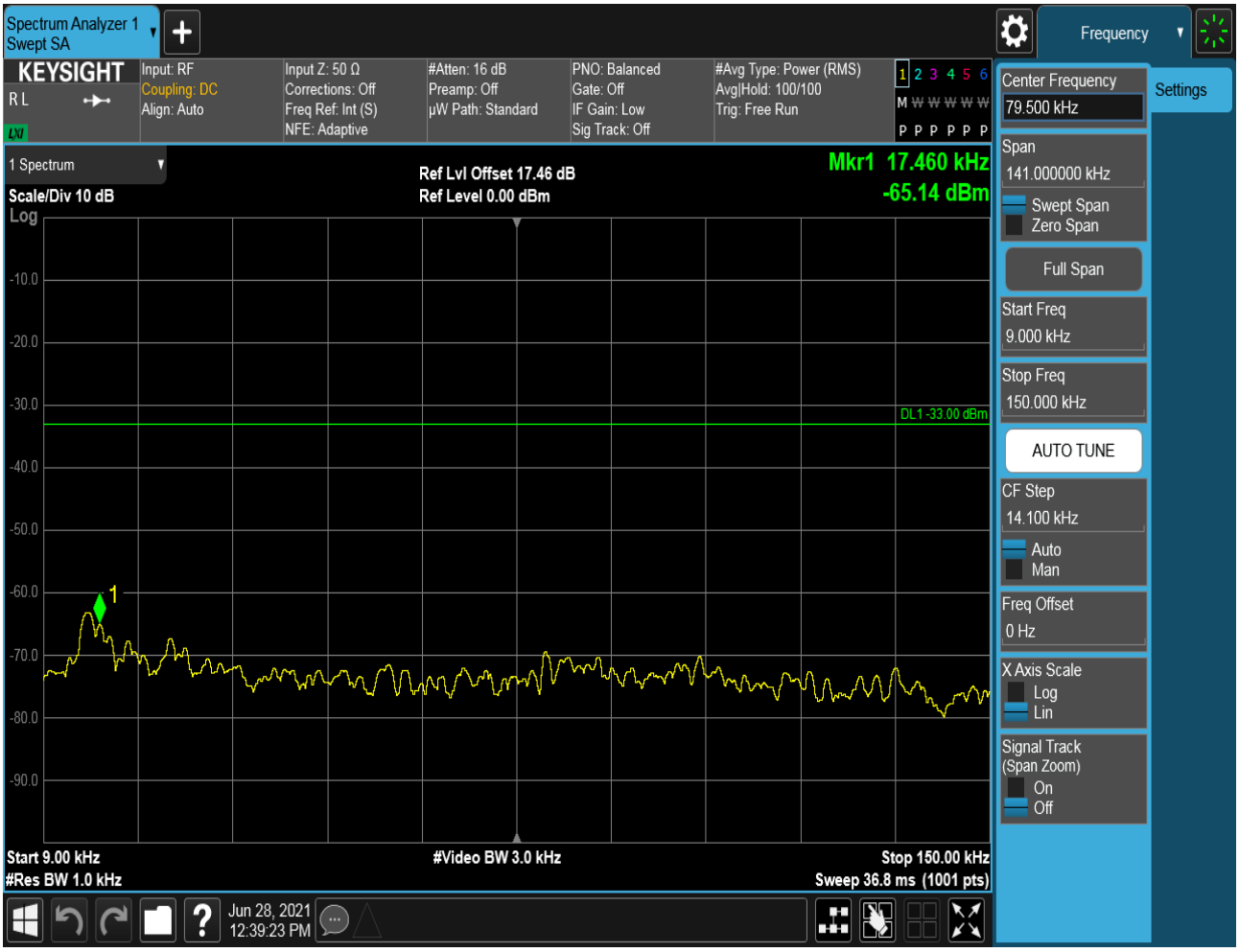
6.2.1.1.4.3 Test Channel = HCH

6.2.1.1.4.3.1 Test RB = RB1#0



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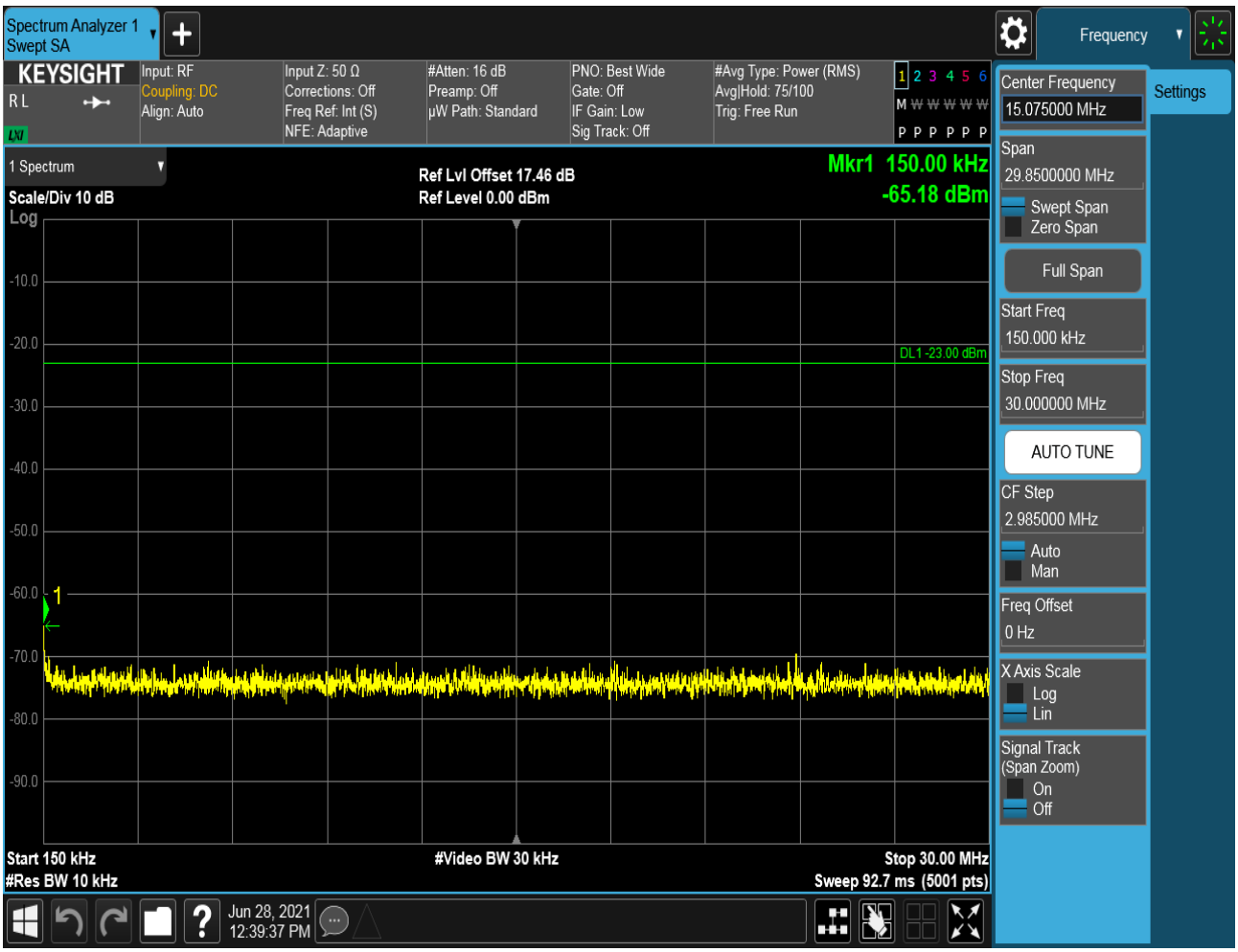

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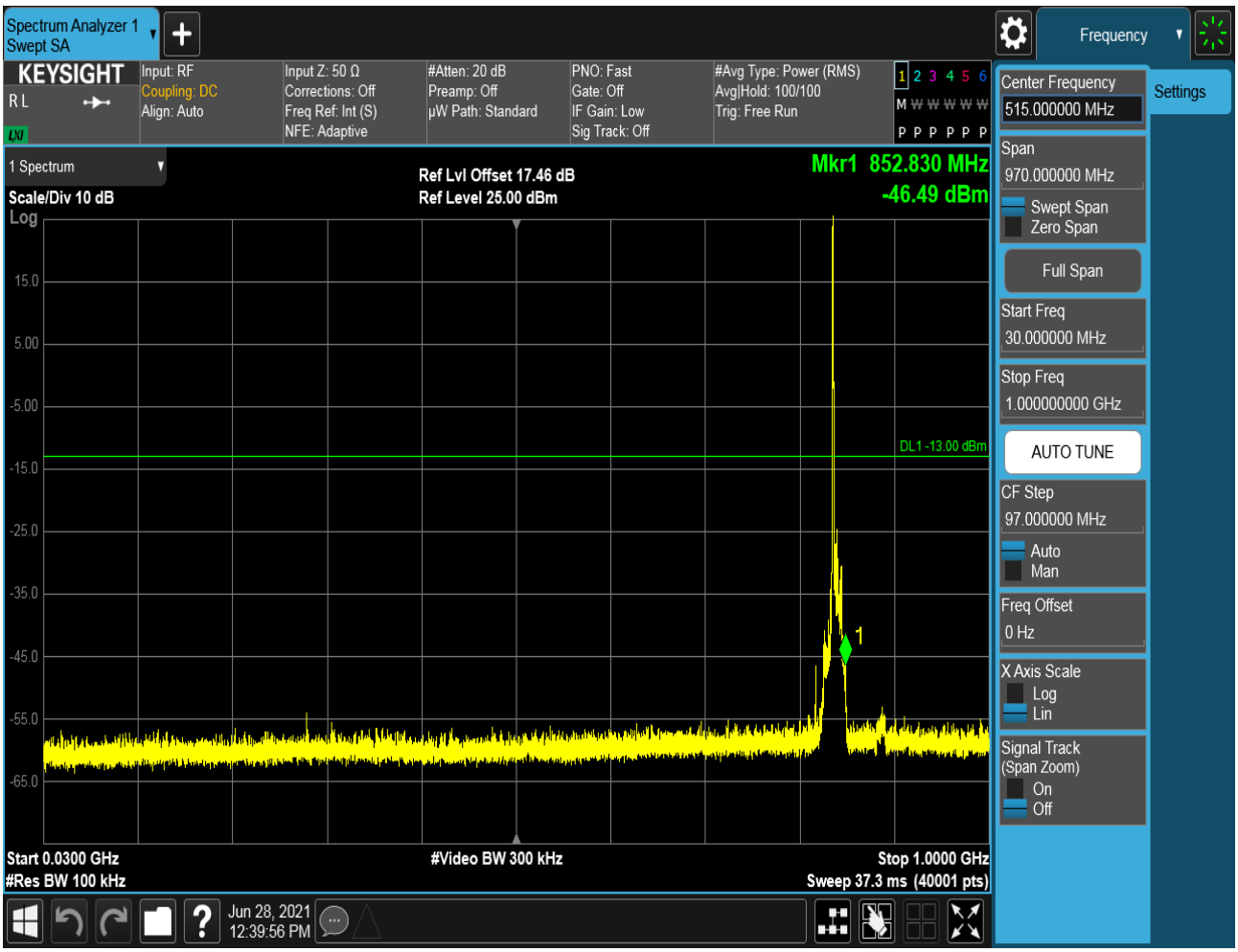
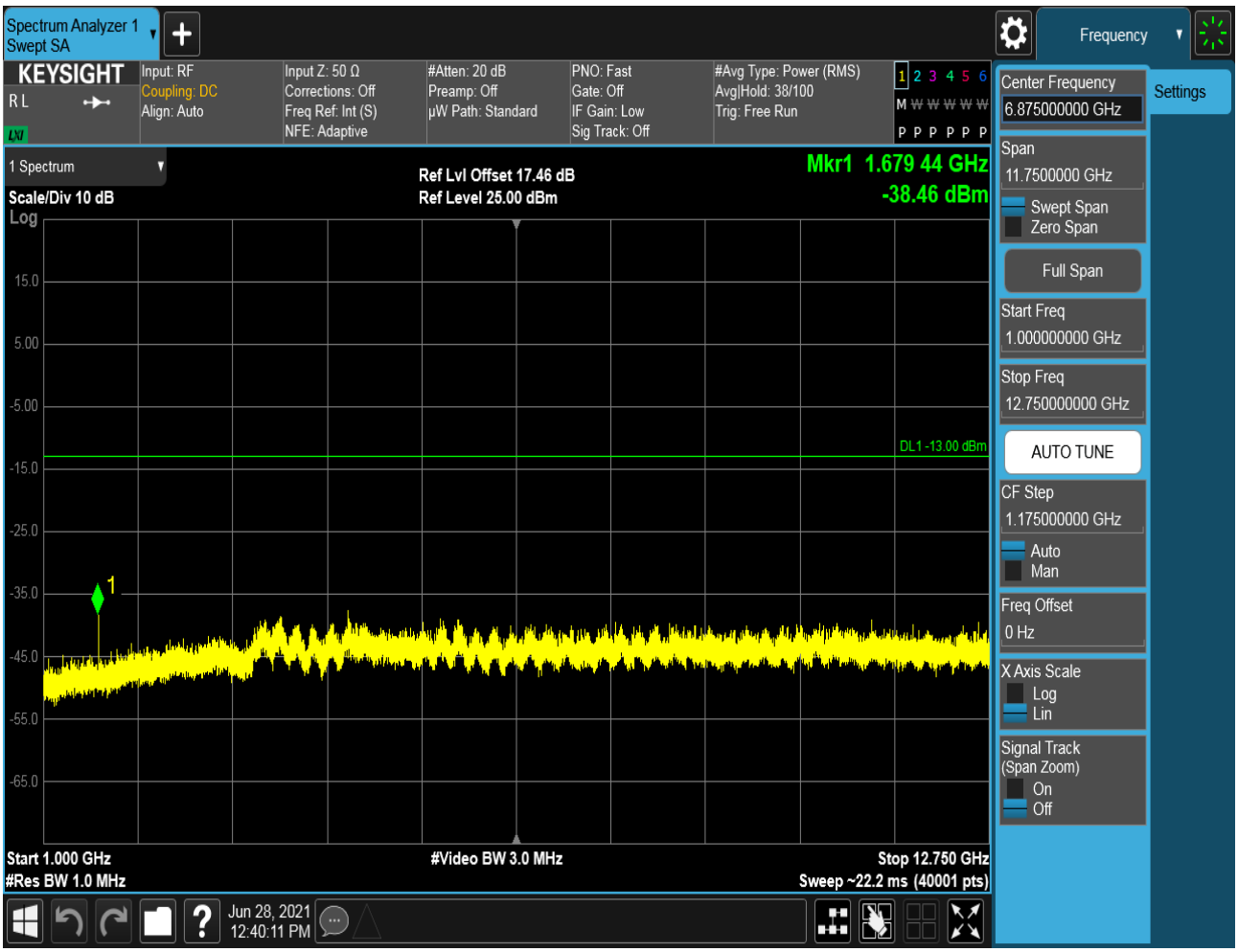

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 20 dB
Preamp: Off
µW Path: Standard
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.46 dB
Ref Level 25.00 dBm
Mkr1 852.830 MHz
-46.49 dBm
DL1 -13.00 dBm
Start 0.0300 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 1.0000 GHz
Sweep 37.3 ms (40001 pts)
Jun 28, 2021
12:39:56 PM
Frequency
Settings
Center Frequency
515.000000 MHz
Span
970.000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
30.000000 MHz
Stop Freq
1.000000000 GHz
AUTO TUNE
CF Step
97.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off



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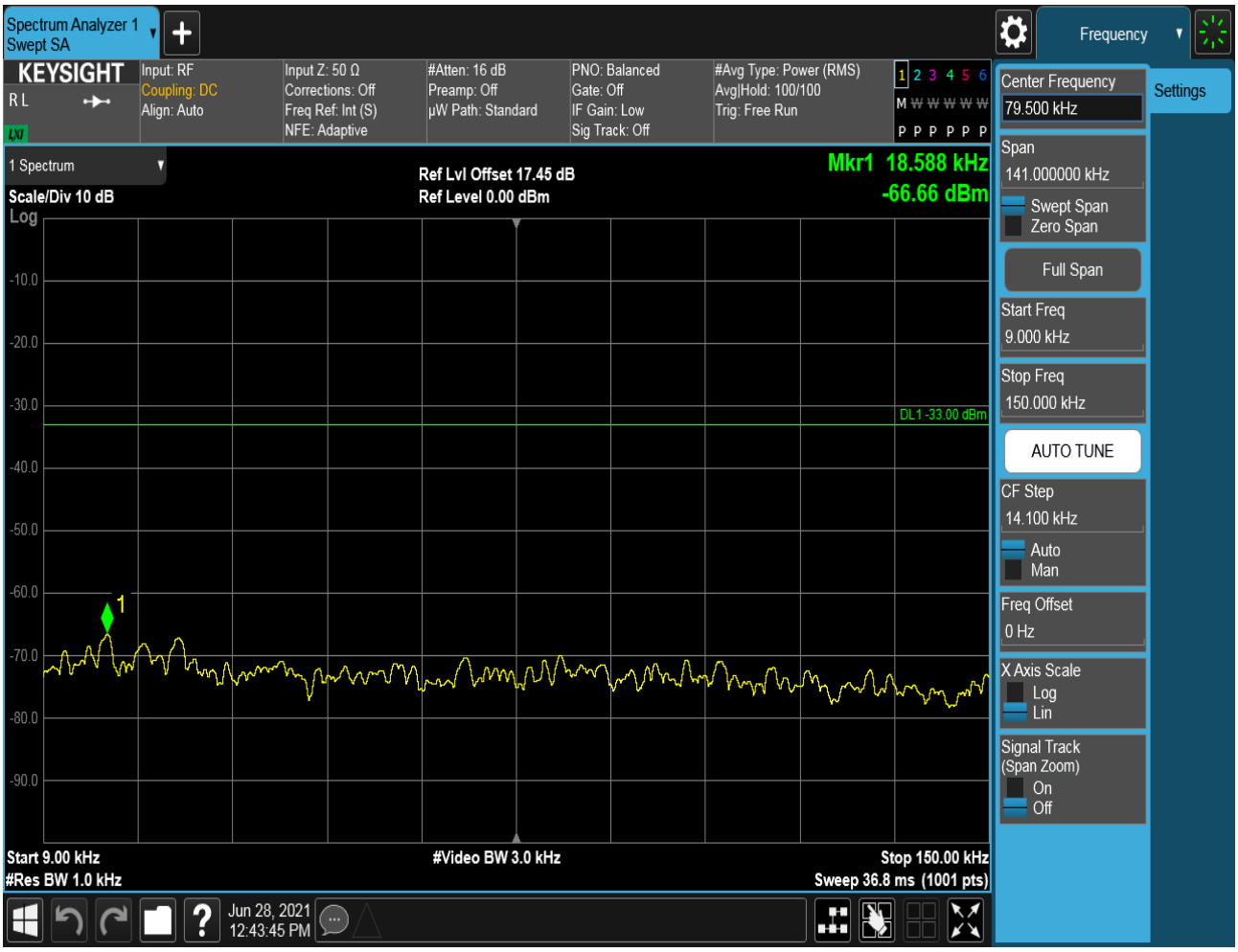
6.2.1.1.5 Test Bandwidth = 15MHz

6.2.1.1.5.1 Test Channel = LCH

6.2.1.1.5.1.1 Test RB = RB1#0



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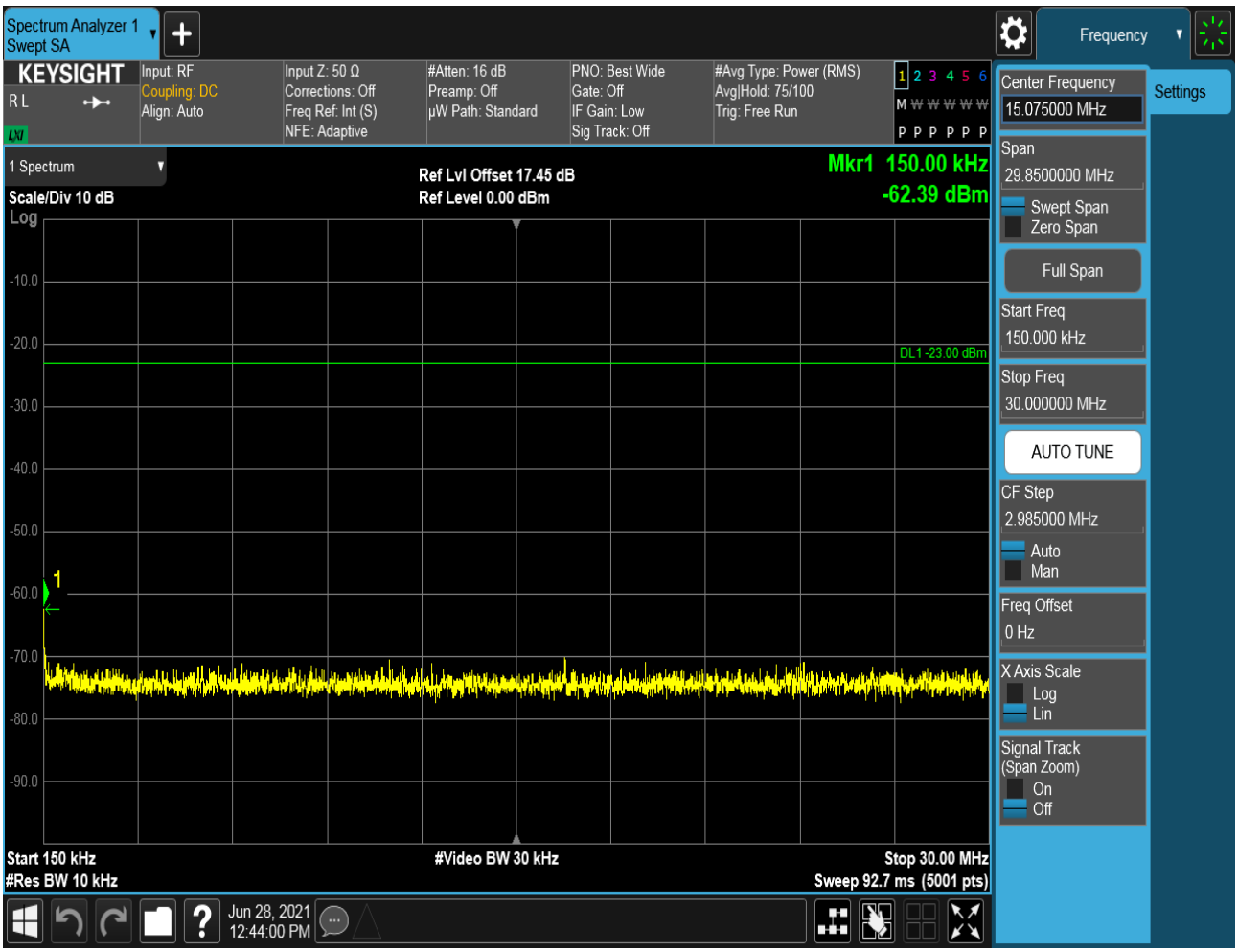

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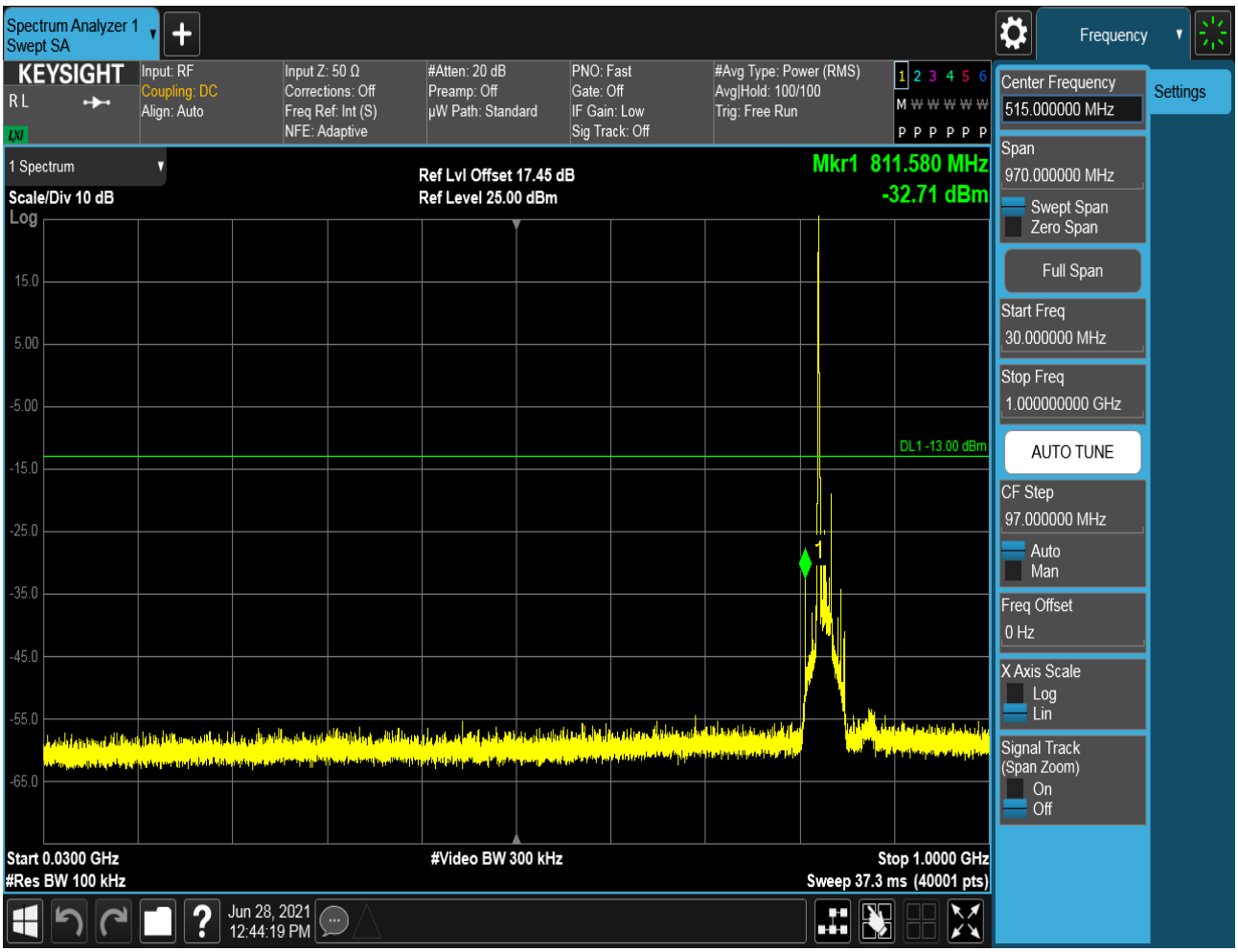
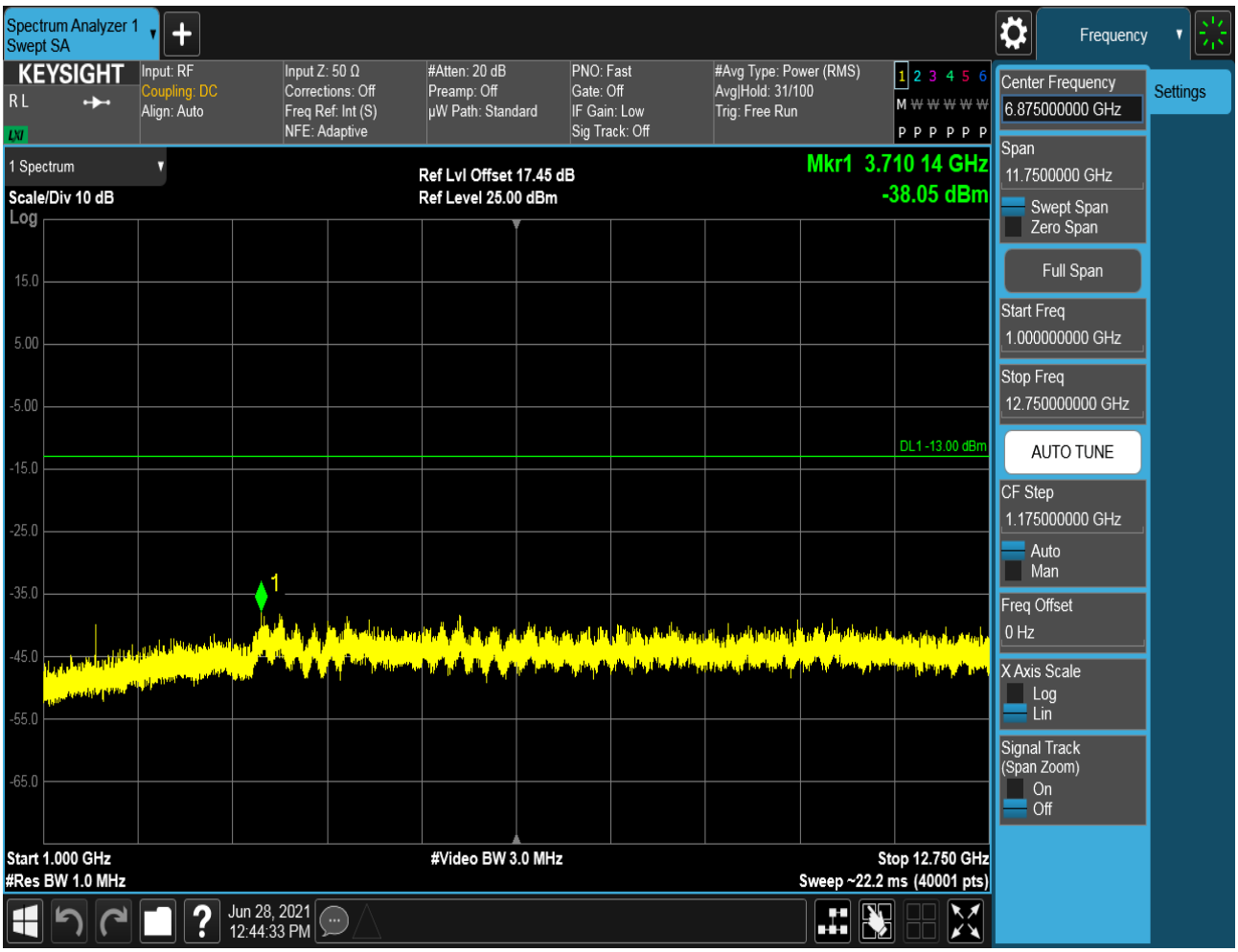

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 20 dB
Preamp: Off
µW Path: Standard
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.45 dB
Ref Level 25.00 dBm
Mkr1 811.580 MHz
-32.71 dBm
DL1 -13.00 dBm
Start 0.0300 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 1.0000 GHz
Sweep 37.3 ms (40001 pts)
Jun 28, 2021
12:44:19 PM
Frequency
Settings
Center Frequency
515.000000 MHz
Span
970.000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
30.000000 MHz
Stop Freq
1.000000000 GHz
AUTO TUNE
CF Step
97.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off



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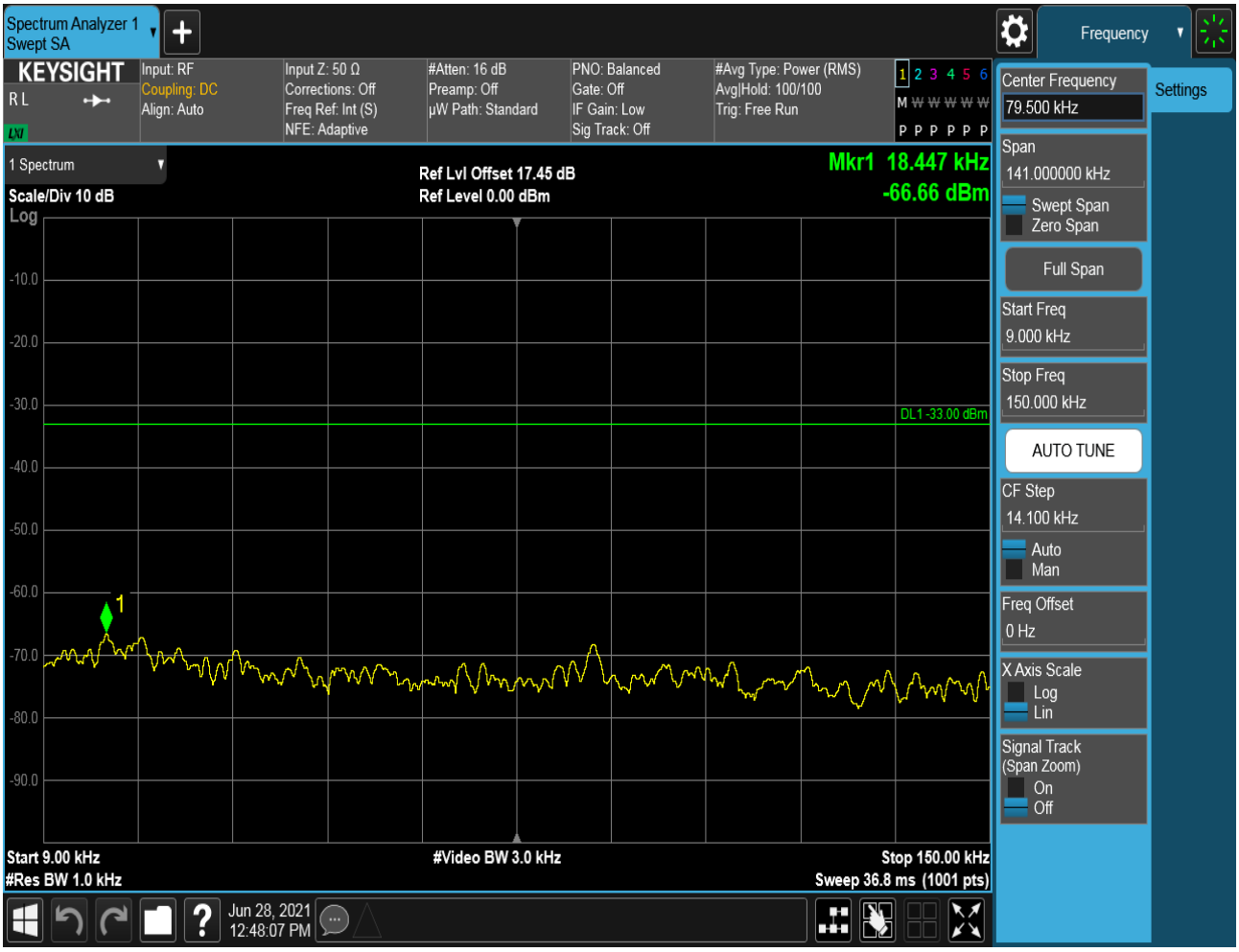
6.2.1.1.5.2 Test Channel = MCH

6.2.1.1.5.2.1 Test RB = RB1#0



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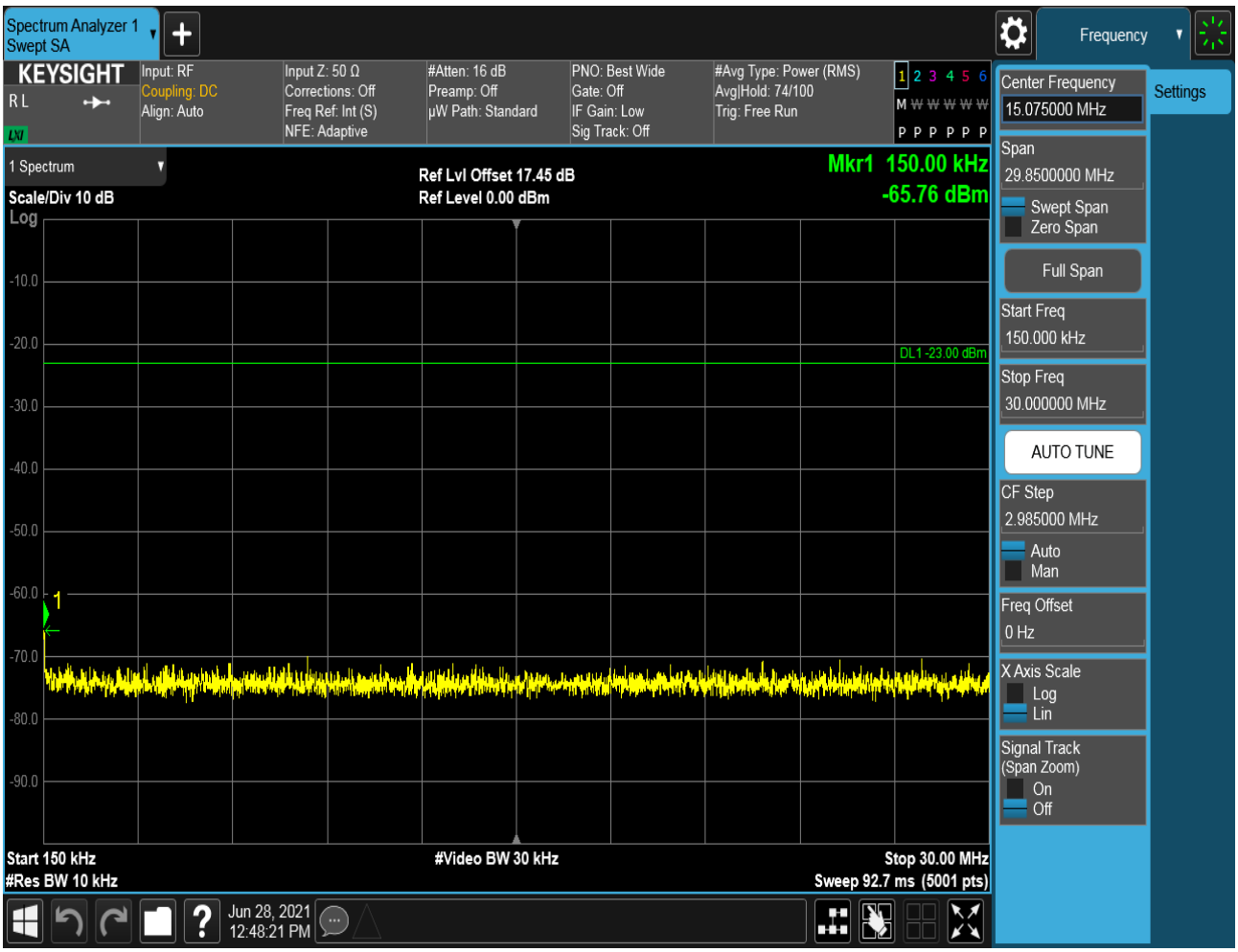
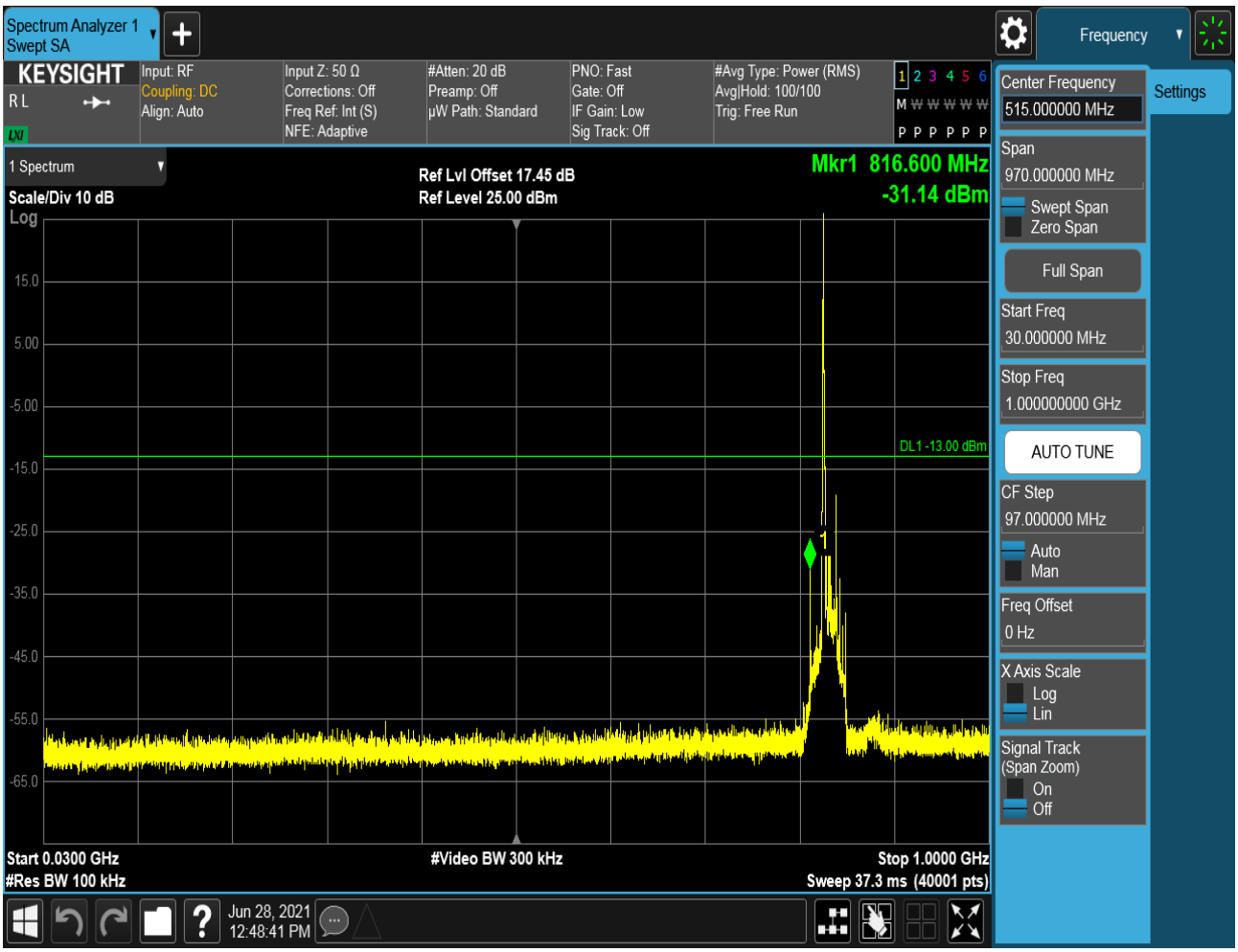

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 16 dB
Preamp: Off
µW Path: Standard
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 74/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.45 dB
Ref Level 0.00 dBm
Mkr1 150.00 kHz
-65.76 dBm
DL1 -23.00 dBm
Start 150 kHz
#Res BW 10 kHz
#Video BW 30 kHz
Stop 30.00 MHz
Sweep 92.7 ms (5001 pts)
Jun 28, 2021
12:48:21 PM
Frequency
Settings
Center Frequency
15.075000 MHz
Span
29.8500000 MHz
Swept Span
Zero Span
Full Span
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
AUTO TUNE
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off



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