



Appendix for test report



1Appendix_A: Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured[dBm] | ERP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|---------------|-----------|-------------|---------|
| Band13 | LTE/TM1 | 5 | LCH | RB1#0 | 23.34 | 20.69 | 34.7 | PASS |
| | | | | RB1#13 | 23.43 | 20.78 | 34.7 | PASS |
| | | | | RB1#24 | 23.38 | 20.73 | 34.7 | PASS |
| | | | | RB12#0 | 22.28 | 19.63 | 34.7 | PASS |
| | | | | RB12#6 | 22.33 | 19.68 | 34.7 | PASS |
| | | | | RB12#13 | 22.37 | 19.72 | 34.7 | PASS |
| | | | | RB25#0 | 22.32 | 19.67 | 34.7 | PASS |
| | | | MCH | RB1#0 | 23.40 | 20.75 | 34.7 | PASS |
| | | | | RB1#13 | 23.39 | 20.74 | 34.7 | PASS |
| | | | | RB1#24 | 23.34 | 20.69 | 34.7 | PASS |
| | | | | RB12#0 | 22.41 | 19.76 | 34.7 | PASS |
| | | | | RB12#6 | 22.37 | 19.72 | 34.7 | PASS |
| | | | | RB12#13 | 22.20 | 19.55 | 34.7 | PASS |
| | | | | RB25#0 | 22.31 | 19.66 | 34.7 | PASS |



| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured[dBm] | ERP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|---------------|-----------|-------------|---------|
| | | | HCH | RB1#0 | 23.35 | 20.70 | 34.7 | PASS |
| | | | | RB1#13 | 23.27 | 20.62 | 34.7 | PASS |
| | | | | RB1#24 | 23.17 | 20.52 | 34.7 | PASS |
| | | | | RB12#0 | 22.27 | 19.62 | 34.7 | PASS |
| | | | | RB12#6 | 22.32 | 19.67 | 34.7 | PASS |
| | | | | RB12#13 | 22.27 | 19.62 | 34.7 | PASS |
| | | RB25#0 | 22.20 | 19.55 | 34.7 | PASS | | |
| | | 10 | MCH | RB1#0 | 23.20 | 20.55 | 34.7 | PASS |
| | | | | RB1#25 | 23.12 | 20.47 | 34.7 | PASS |
| | | | | RB1#49 | 23.14 | 20.49 | 34.7 | PASS |
| | | | | RB25#0 | 22.37 | 19.72 | 34.7 | PASS |
| | | | | RB25#13 | 22.33 | 19.68 | 34.7 | PASS |
| | RB25#25 | | | 22.31 | 19.66 | 34.7 | PASS | |
| | LTE/TM2 | 5 | LCH | RB1#0 | 22.43 | 19.78 | 34.7 | PASS |
| | | | | RB1#13 | 22.57 | 19.92 | 34.7 | PASS |
| | | | | RB1#24 | 22.52 | 19.87 | 34.7 | PASS |



| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured[dBm] | ERP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|---------------|-----------|-------------|---------|
| | | | | RB12#0 | 21.23 | 18.58 | 34.7 | PASS |
| | | | | RB12#6 | 21.33 | 18.68 | 34.7 | PASS |
| | | | | RB12#13 | 21.41 | 18.76 | 34.7 | PASS |
| | | | | RB25#0 | 21.30 | 18.65 | 34.7 | PASS |
| | | | MCH | RB1#0 | 22.62 | 19.97 | 34.7 | PASS |
| | | | | RB1#13 | 22.58 | 19.93 | 34.7 | PASS |
| | | | | RB1#24 | 22.50 | 19.85 | 34.7 | PASS |
| | | | | RB12#0 | 21.44 | 18.79 | 34.7 | PASS |
| | | | | RB12#6 | 21.31 | 18.66 | 34.7 | PASS |
| | | | | RB12#13 | 21.21 | 18.56 | 34.7 | PASS |
| | | | | RB25#0 | 21.27 | 18.62 | 34.7 | PASS |
| | | | HCH | RB1#0 | 22.57 | 19.92 | 34.7 | PASS |
| | | | | RB1#13 | 22.57 | 19.92 | 34.7 | PASS |
| | | | | RB1#24 | 22.48 | 19.83 | 34.7 | PASS |
| | | | | RB12#0 | 21.23 | 18.58 | 34.7 | PASS |
| | | | | RB12#6 | 21.23 | 18.58 | 34.7 | PASS |
| | | | | RB12#13 | 21.33 | 18.68 | 34.7 | PASS |



| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured[dBm] | ERP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|---------------|-----------|-------------|---------|
| | | | | RB25#0 | 21.27 | 18.62 | 34.7 | PASS |
| | | 10 | MCH | RB1#0 | 22.45 | 19.80 | 34.7 | PASS |
| | | | | RB1#25 | 22.41 | 19.76 | 34.7 | PASS |
| | | | | RB1#49 | 22.43 | 19.78 | 34.7 | PASS |
| | | | | RB25#0 | 21.17 | 18.52 | 34.7 | PASS |
| | | | | RB25#13 | 21.30 | 18.65 | 34.7 | PASS |
| | | | | RB25#25 | 21.28 | 18.63 | 34.7 | PASS |
| | | | | RB50#0 | 21.16 | 18.51 | 34.7 | PASS |

Note1:

a, For getting the ERP (Efficient Radiated Power) or EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]$$

$$EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBi]$$

b, SGP = Signal Generator Level

Note2:

$$SET Span = 1.5 * OBW$$

$$SET RBW = 1\% \text{ of the } OBW, \text{ not to exceed } 1MHz$$

$$SET VBW \geq 3 * RBW$$

SET Sweep time = auto - couple.

Detector: RMS



2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

| Test Band(For LTE) | Test Mode | Test Bandwidth (MHz) | Test Channel | Test RB | Measured[dB] | Limit [dB] | Verdict |
|--------------------|-----------|----------------------|--------------|---------|---------------|------------|---------|
| Band13 | LTE/TM1 | 5 | LCH | RB1#0 | 5.10 | 13 | PASS |
| | | | | RB1#13 | 5.15 | 13 | PASS |
| | | | | RB1#24 | 5.24 | 13 | PASS |
| | | | | RB12#0 | 5.97 | 13 | PASS |
| | | | | RB12#6 | 5.98 | 13 | PASS |
| | | | | RB12#13 | 6.10 | 13 | PASS |
| | | | RB25#0 | 6.08 | 13 | PASS | |
| | | | MCH | RB1#0 | 5.44 | 13 | PASS |
| | | | | RB1#13 | 5.08 | 13 | PASS |
| | | | | RB1#24 | 5.13 | 13 | PASS |
| | | | | RB12#0 | 6.16 | 13 | PASS |
| | | | | RB12#6 | 6.03 | 13 | PASS |
| | | RB12#13 | | 6.00 | 13 | PASS | |
| | | HCH | RB25#0 | 5.94 | 13 | PASS | |
| | | | RB1#0 | 5.33 | 13 | PASS | |
| | | | RB1#13 | 5.27 | 13 | PASS | |
| | | | RB1#24 | 5.48 | 13 | PASS | |
| | | | RB12#0 | 6.08 | 13 | PASS | |
| | RB12#6 | | 6.13 | 13 | PASS | | |
| | 10 | MCH | RB12#13 | 6.16 | 13 | PASS | |
| | | | RB25#0 | 6.00 | 13 | PASS | |
| | | | RB1#0 | 4.98 | 13 | PASS | |
| | | | RB1#25 | 5.00 | 13 | PASS | |
| | | | RB1#49 | 5.06 | 13 | PASS | |
| | | | RB25#0 | 6.48 | 13 | PASS | |
| | | | RB25#13 | 6.21 | 13 | PASS | |
| | | | RB25#25 | 6.30 | 13 | PASS | |
| | | | RB50#0 | 6.32 | 13 | PASS | |
| LTE/TM2 | | | 5 | LCH | RB1#0 | 5.95 | 13 |
| | RB1#13 | 6.09 | | | 13 | PASS | |
| | RB1#24 | 6.15 | | | 13 | PASS | |
| | RB12#0 | 6.62 | | | 13 | PASS | |
| | RB12#6 | 6.81 | | | 13 | PASS | |
| | RB12#13 | 6.93 | | | 13 | PASS | |
| | RB25#0 | 7.24 | | | 13 | PASS | |



| Test Band(For LTE) | Test Mode | Test Bandwidth (MHz) | Test Channel | Test RB | Measured[dB] | Limit [dB] | Verdict |
|--------------------|-----------|----------------------|--------------|---------|---------------|------------|---------|
| | | | MCH | RB1#0 | 5.69 | 13 | PASS |
| | | | | RB1#13 | 5.46 | 13 | PASS |
| | | | | RB1#24 | 5.47 | 13 | PASS |
| | | | | RB12#0 | 7.02 | 13 | PASS |
| | | | | RB12#6 | 6.94 | 13 | PASS |
| | | | | RB12#13 | 6.84 | 13 | PASS |
| | | | | RB25#0 | 6.92 | 13 | PASS |
| | | | HCH | RB1#0 | 6.28 | 13 | PASS |
| | | | | RB1#13 | 6.13 | 13 | PASS |
| | | | | RB1#24 | 6.35 | 13 | PASS |
| | | | | RB12#0 | 7.01 | 13 | PASS |
| | | | | RB12#6 | 6.91 | 13 | PASS |
| | | | | RB12#13 | 7.13 | 13 | PASS |
| | | | | RB25#0 | 6.81 | 13 | PASS |
| | | 10 | MCH | RB1#0 | 6.20 | 13 | PASS |
| | | | | RB1#25 | 6.30 | 13 | PASS |
| | | | | RB1#49 | 6.36 | 13 | PASS |
| | | | | RB25#0 | 7.21 | 13 | PASS |
| | | | | RB25#13 | 6.96 | 13 | PASS |
| | | | | RB25#25 | 7.06 | 13 | PASS |
| | | | | RB50#0 | 7.14 | 13 | PASS |

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

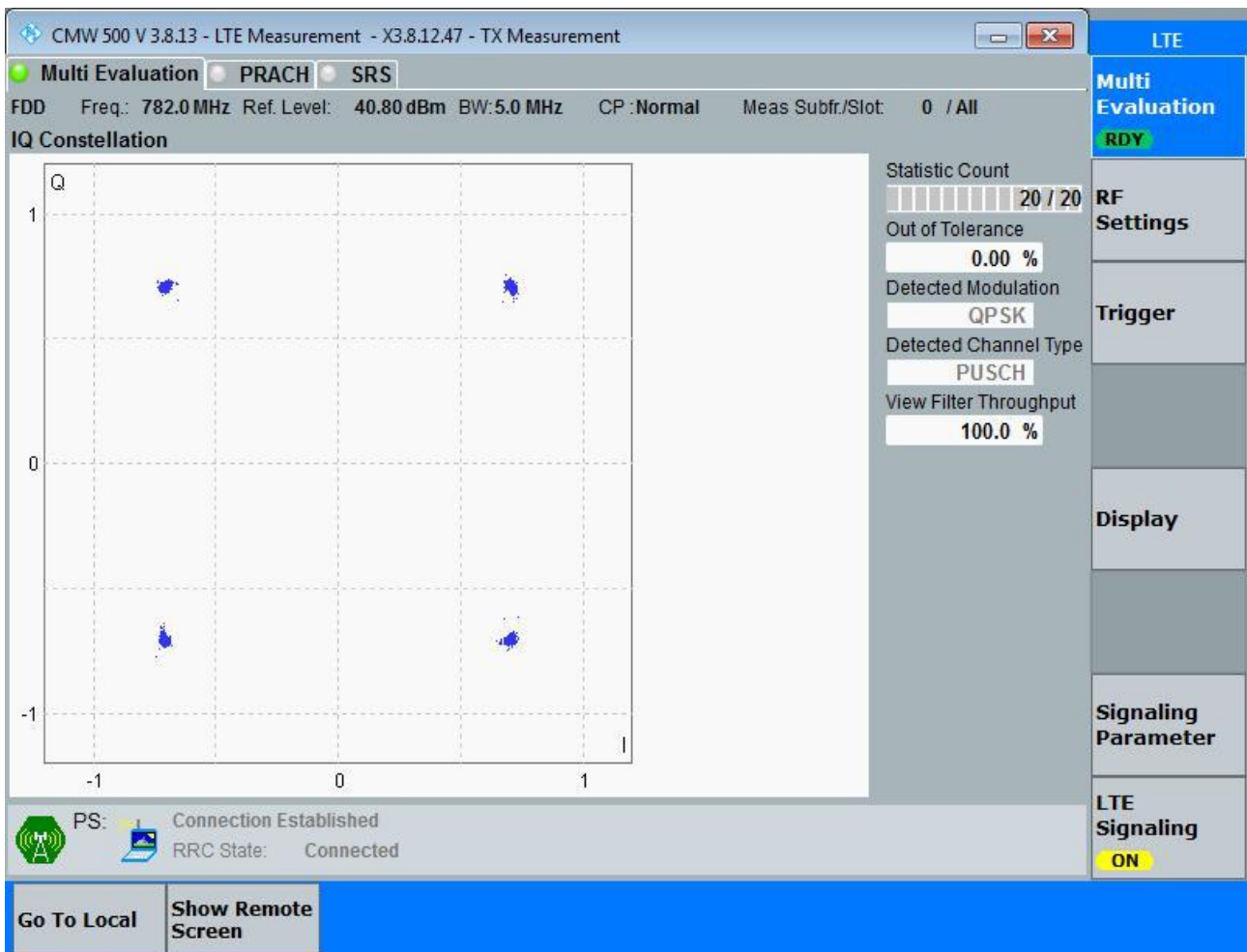
3.1.1 Test Band = Band13

3.1.1.1 Test Mode = LTE/TM1

3.1.1.1.3 Test Bandwidth = 5MHz

3.1.1.1.3.1 Test Channel = MCH

3.1.1.1.3.1.1 Test RB = RB25#0

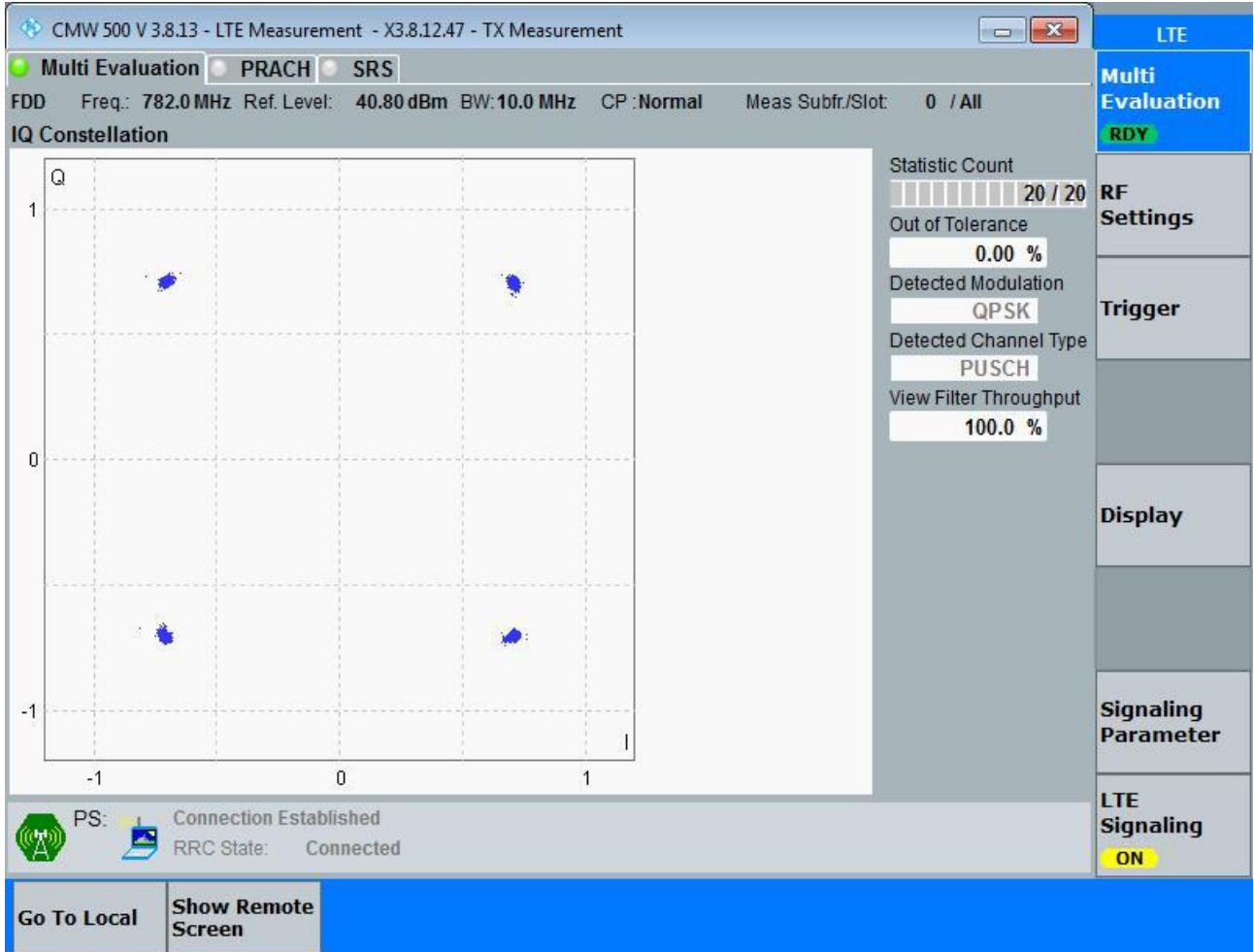




3.1.1.1.4 Test Bandwidth = 10MHz

3.1.1.1.4.1 Test Channel = MCH

3.1.1.1.4.1.1 Test RB = RB50#0



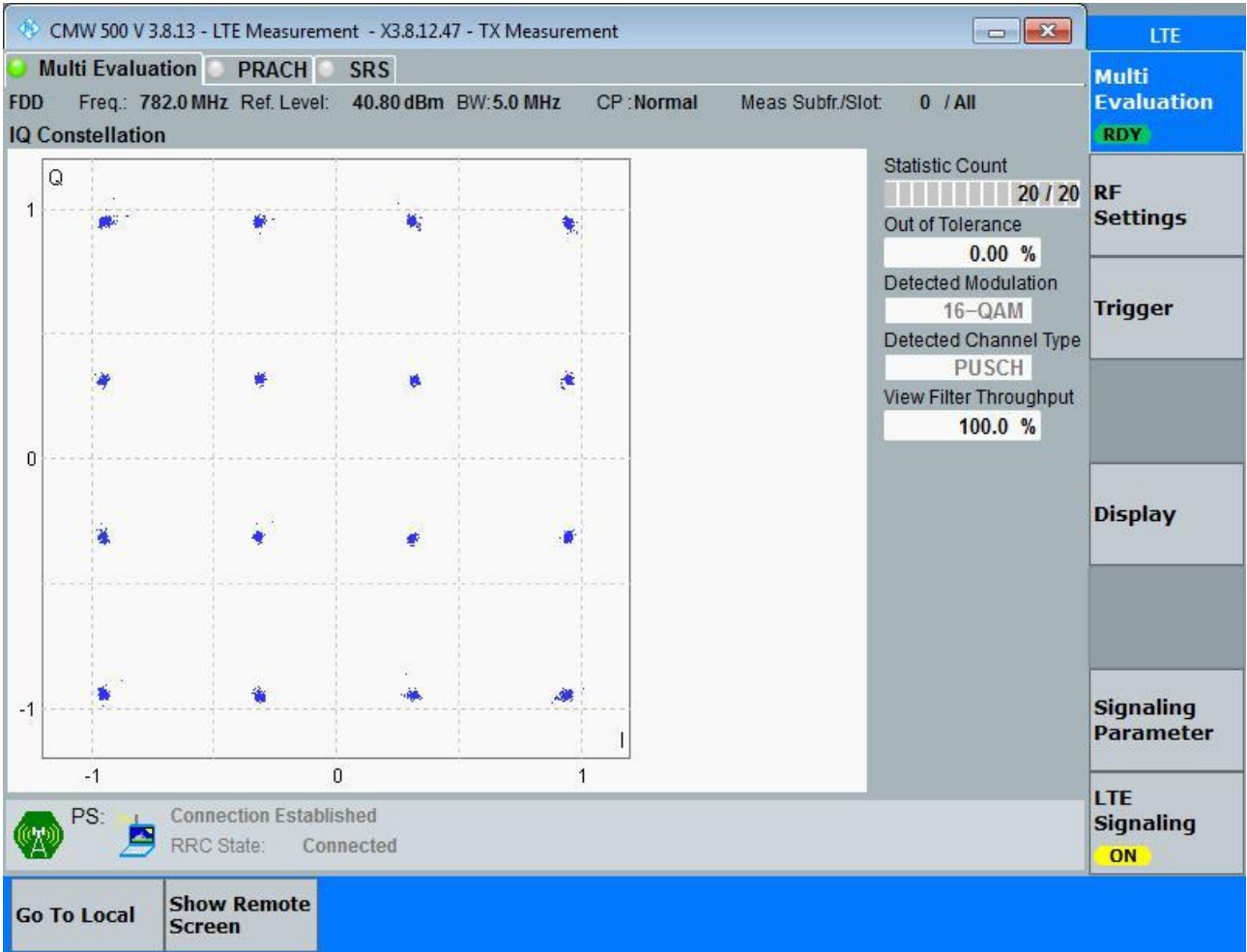


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.3 Test Bandwidth = 5MHz

3.1.1.2.3.1 Test Channel = MCH

3.1.1.2.3.1.1 Test RB = RB25#0

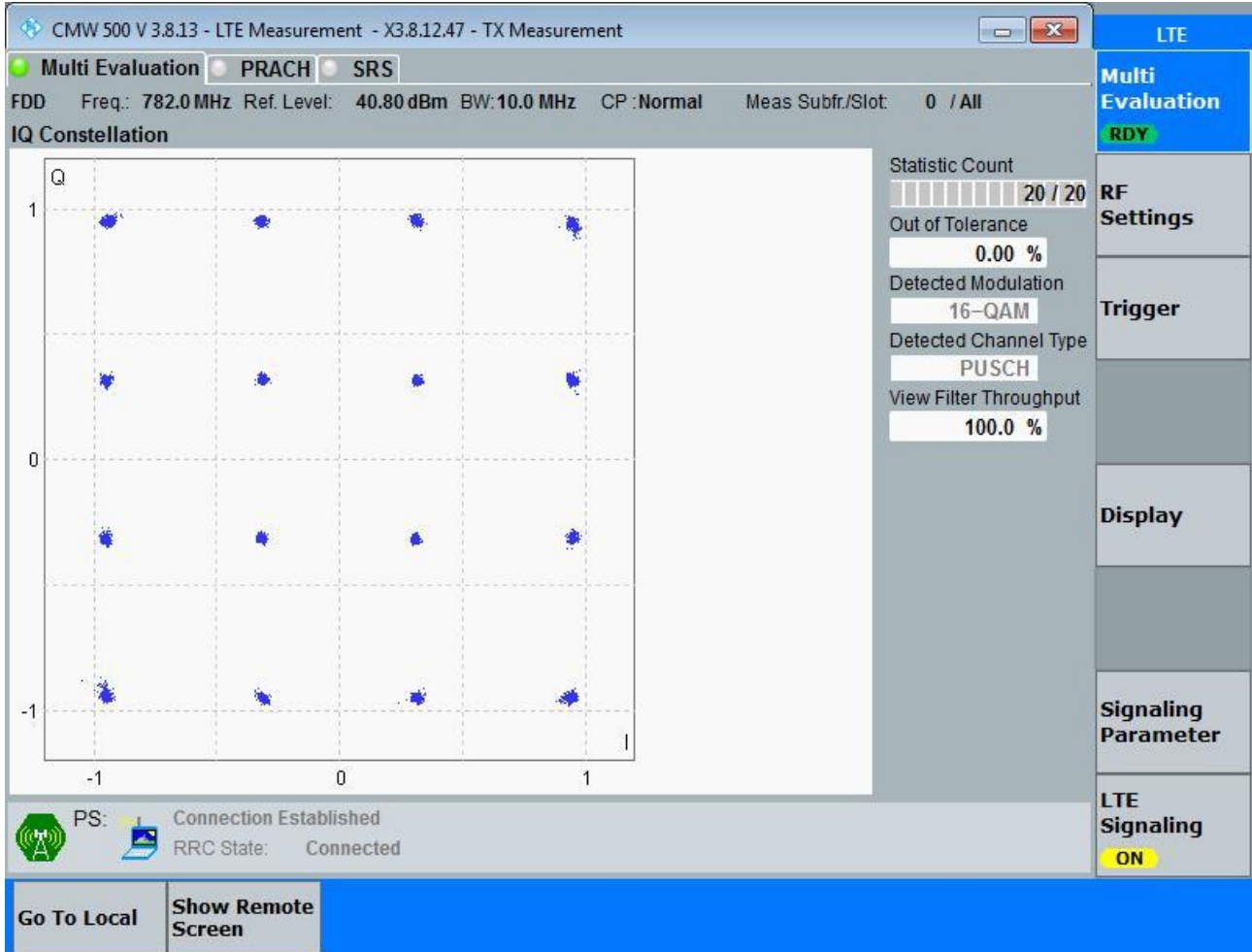




3.1.1.2.4 Test Bandwidth = 10MHz

3.1.1.2.4.1 Test Channel = MCH

3.1.1.2.4.1.1 Test RB = RB50#0





4Appendix_D: Bandwidth

Part I - Test Results

| Test Band | Test Mode | Test Bandwidth | Test Channel | Test RB | Occupied Bandwidth [MHz] | Emission Bandwidth [MHz] | Verdict | |
|-----------|-----------|----------------|--------------|---------|--------------------------|--------------------------|---------|------|
| Band13 | LTE/TM1 | 5 | LCH | RB25#0 | 4.53 | 4.94 | Pass | |
| | | | MCH | RB25#0 | 4.50 | 4.96 | Pass | |
| | | | HCH | RB25#0 | 4.50 | 4.93 | Pass | |
| | | | 10 | MCH | RB50#0 | 8.95 | 9.80 | Pass |
| | LTE/TM2 | 5 | LCH | RB25#0 | 4.52 | 4.94 | Pass | |
| | | | MCH | RB25#0 | 4.51 | 4.95 | Pass | |
| | | | HCH | RB25#0 | 4.51 | 4.96 | Pass | |
| | | | | 10 | MCH | RB50#0 | 8.95 | 9.78 |



Part II - Test Plots

4.1 For LTE

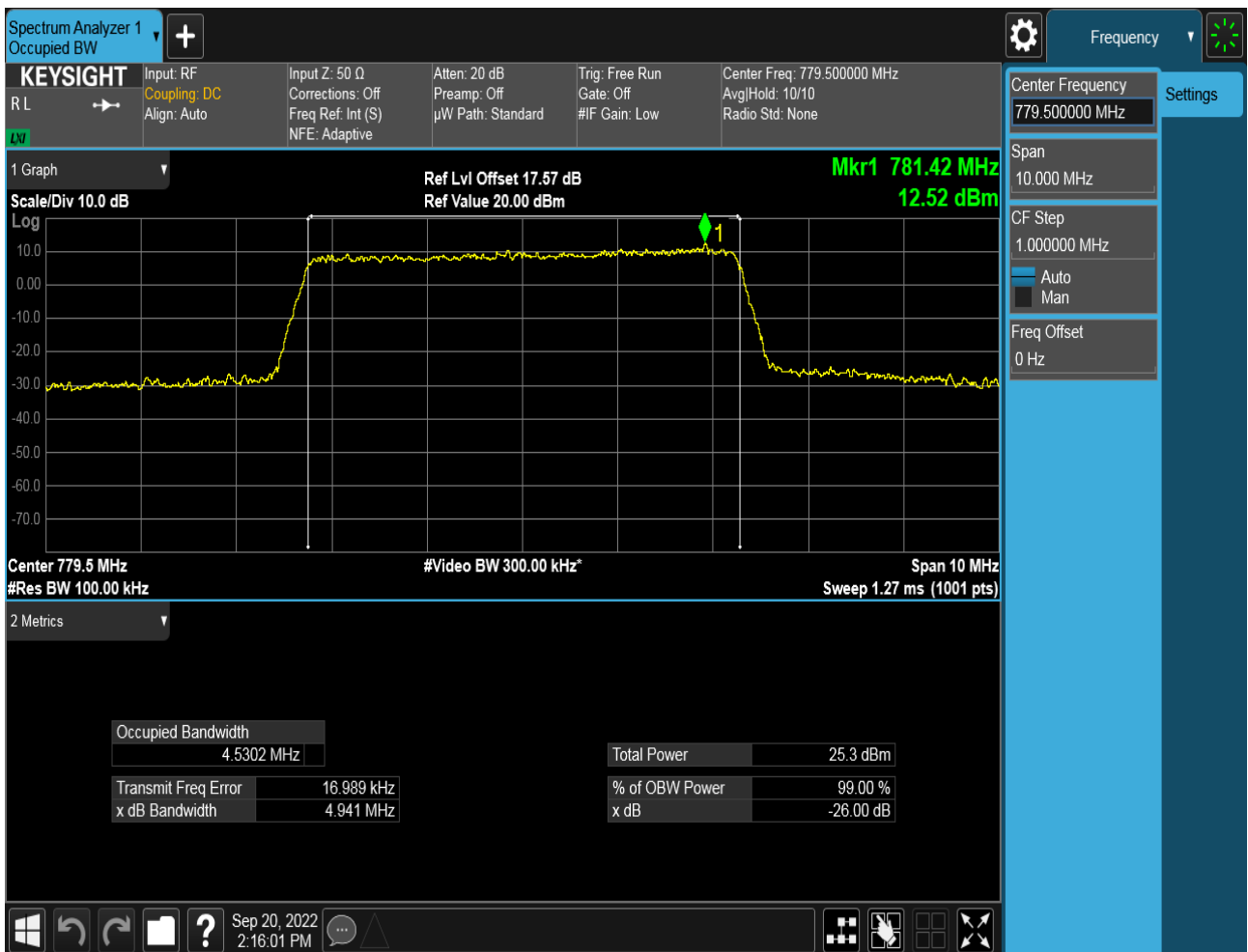
4.1.1 Test Band = Band13

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.3 Test Bandwidth = 5MHz

4.1.1.1.3.1 Test Channel = LCH

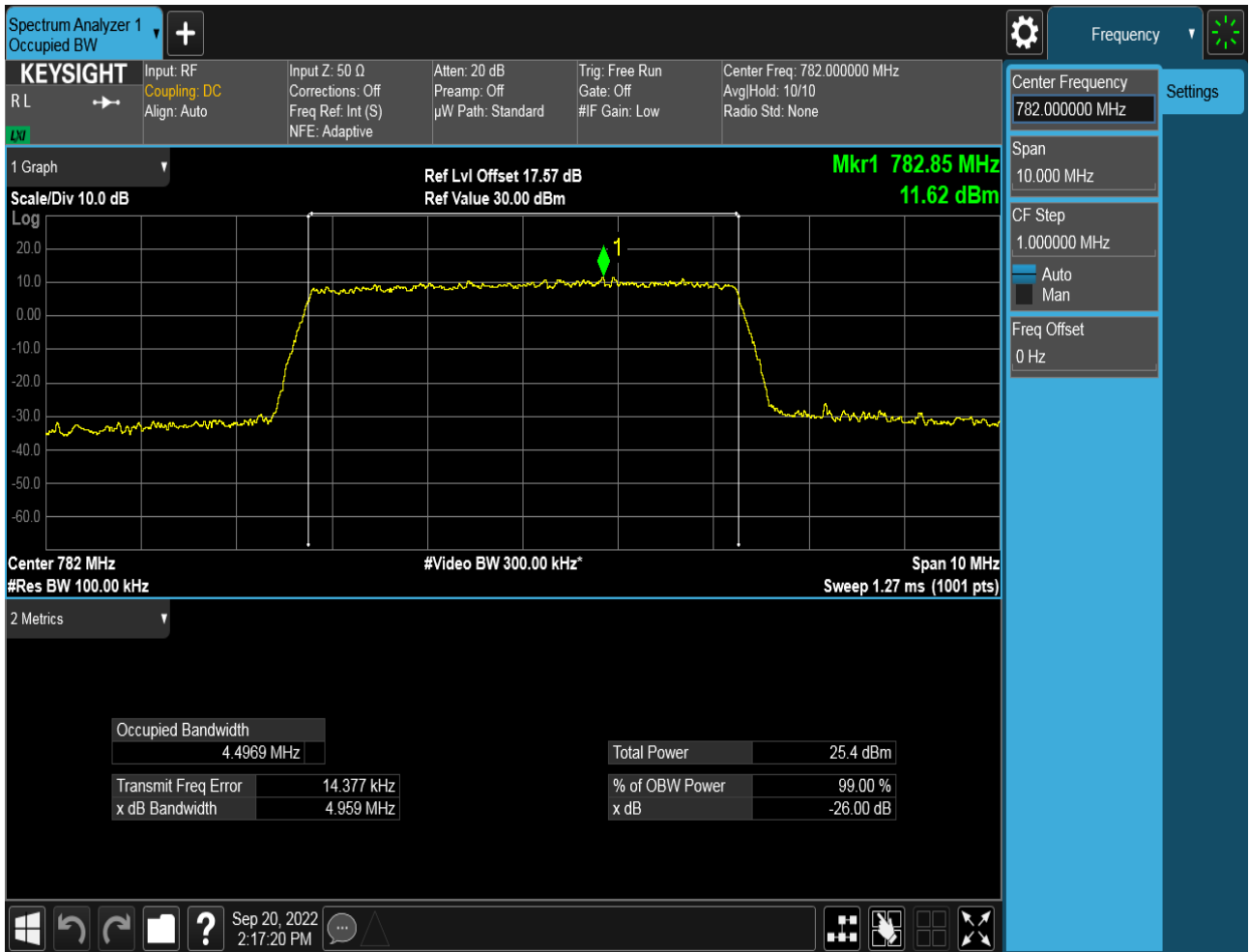
4.1.1.1.3.1.1 Test RB = RB25#0





4.1.1.1.3.2 Test Channel = MCH

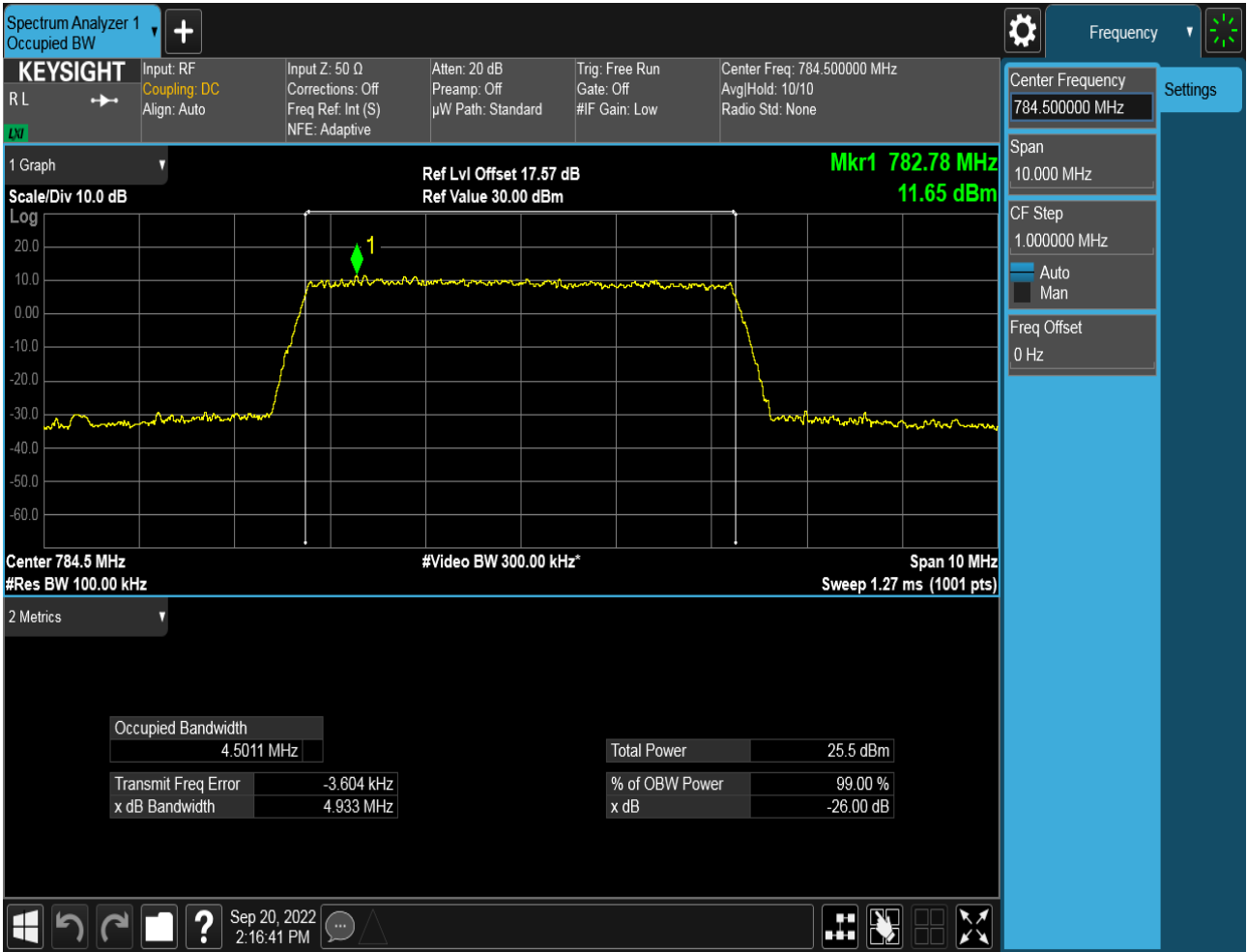
4.1.1.1.3.2.1 Test RB = RB25#0





4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB25#0

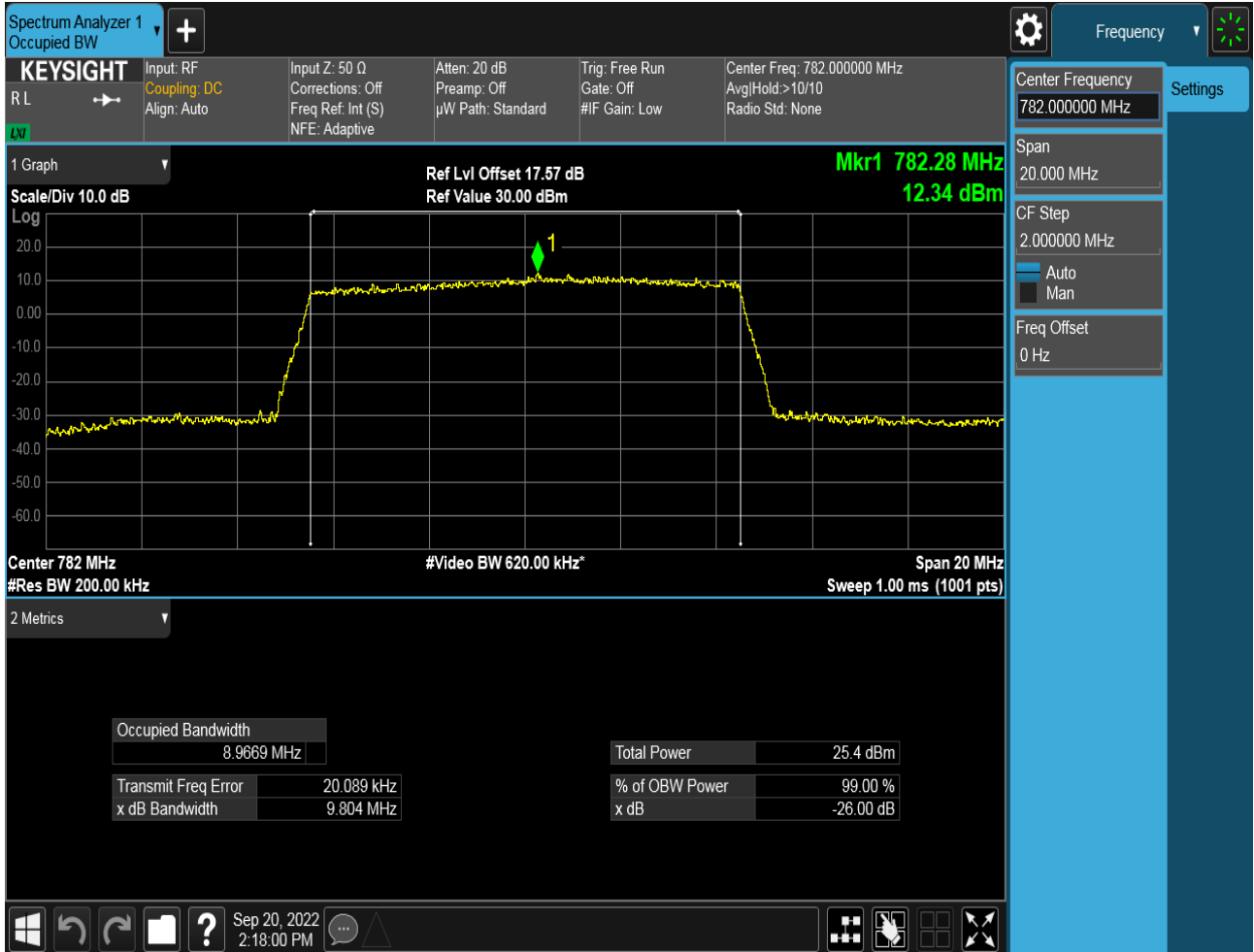




4.1.1.1.4 Test Bandwidth = 10MHz

4.1.1.1.4.2 Test Channel = MCH

4.1.1.1.4.2.1 Test RB = RB50#0



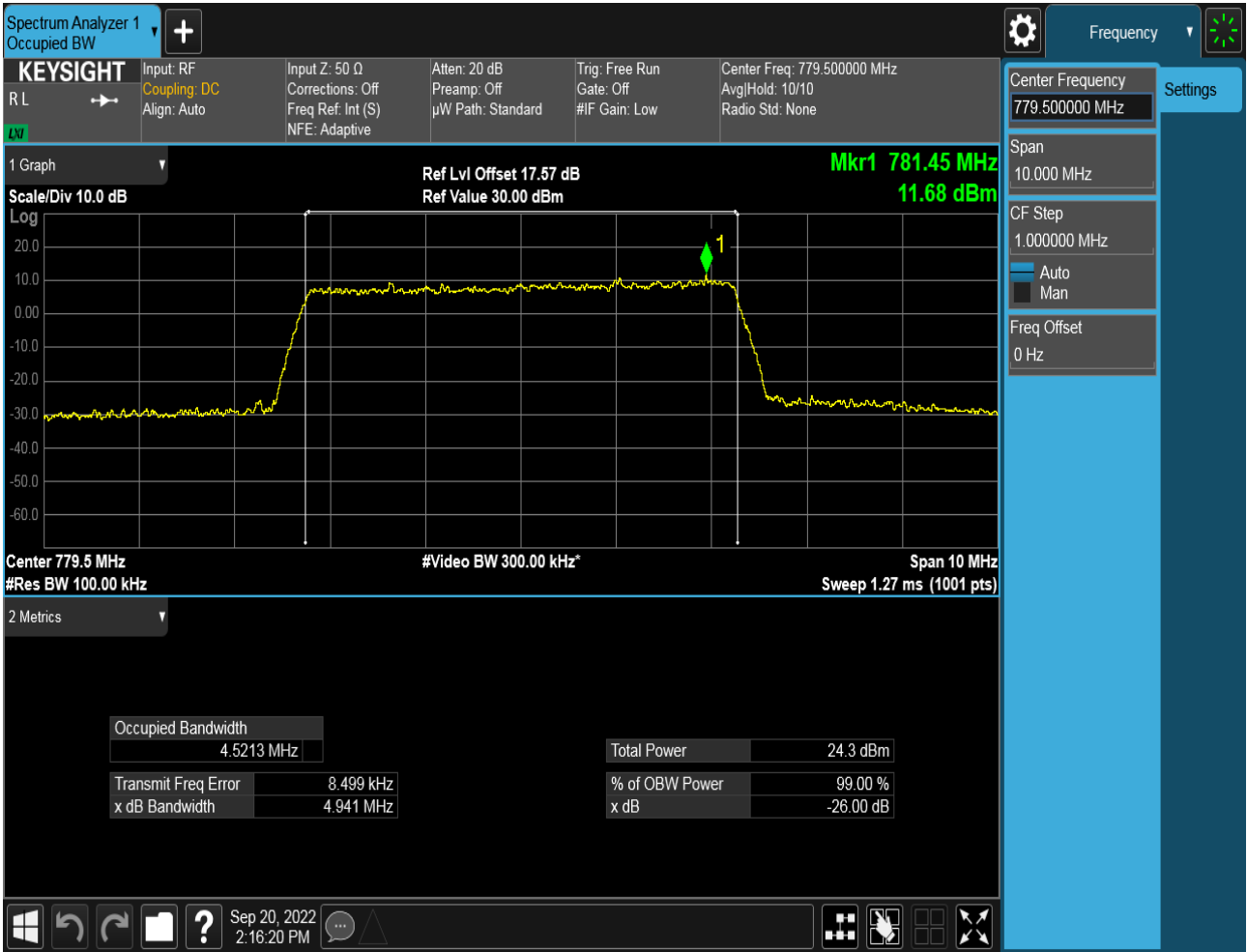


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.3 Test Bandwidth = 5MHz

4.1.1.2.3.1 Test Channel = LCH

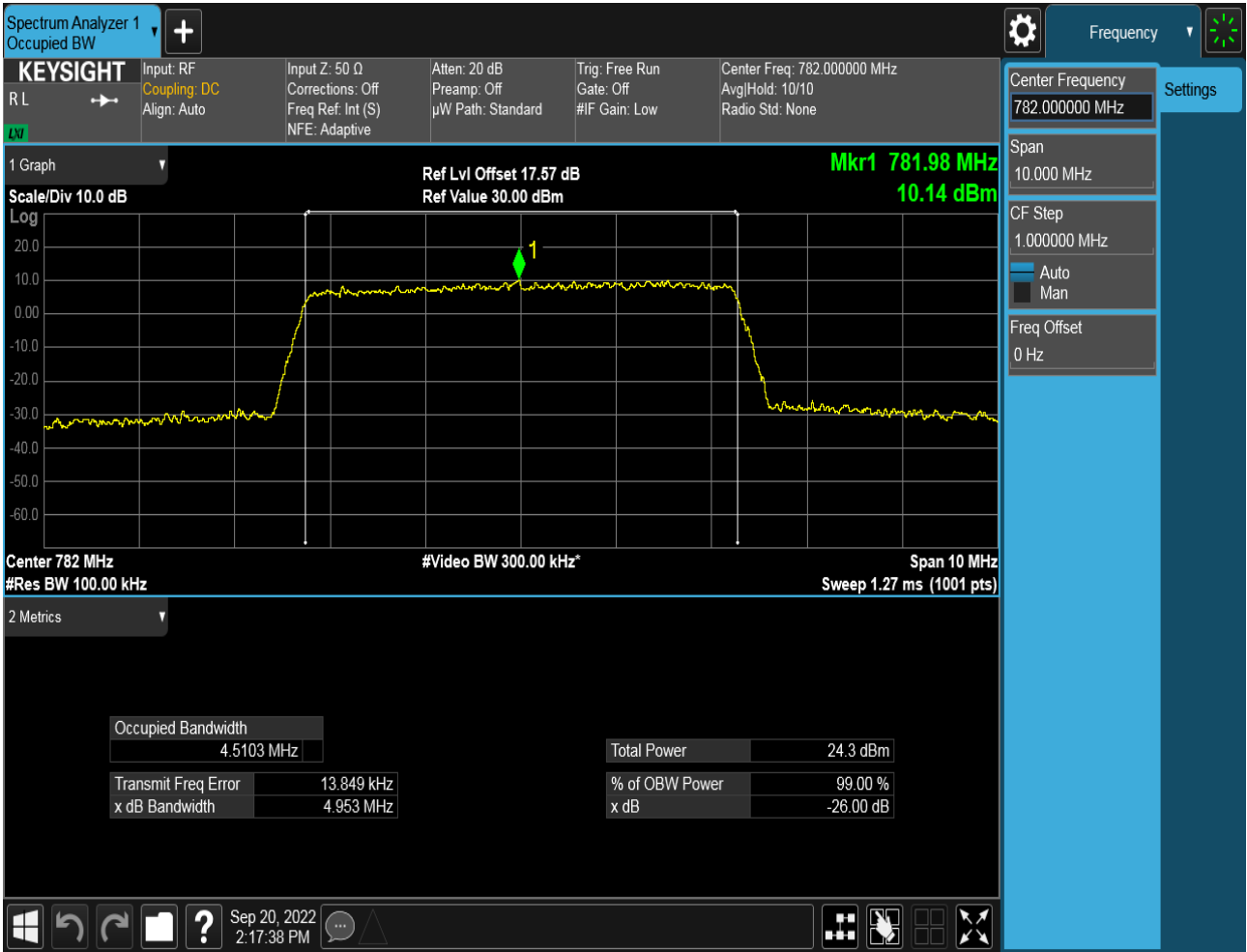
4.1.1.2.3.1.1 Test RB = RB25#0





4.1.1.2.3.2 Test Channel = MCH

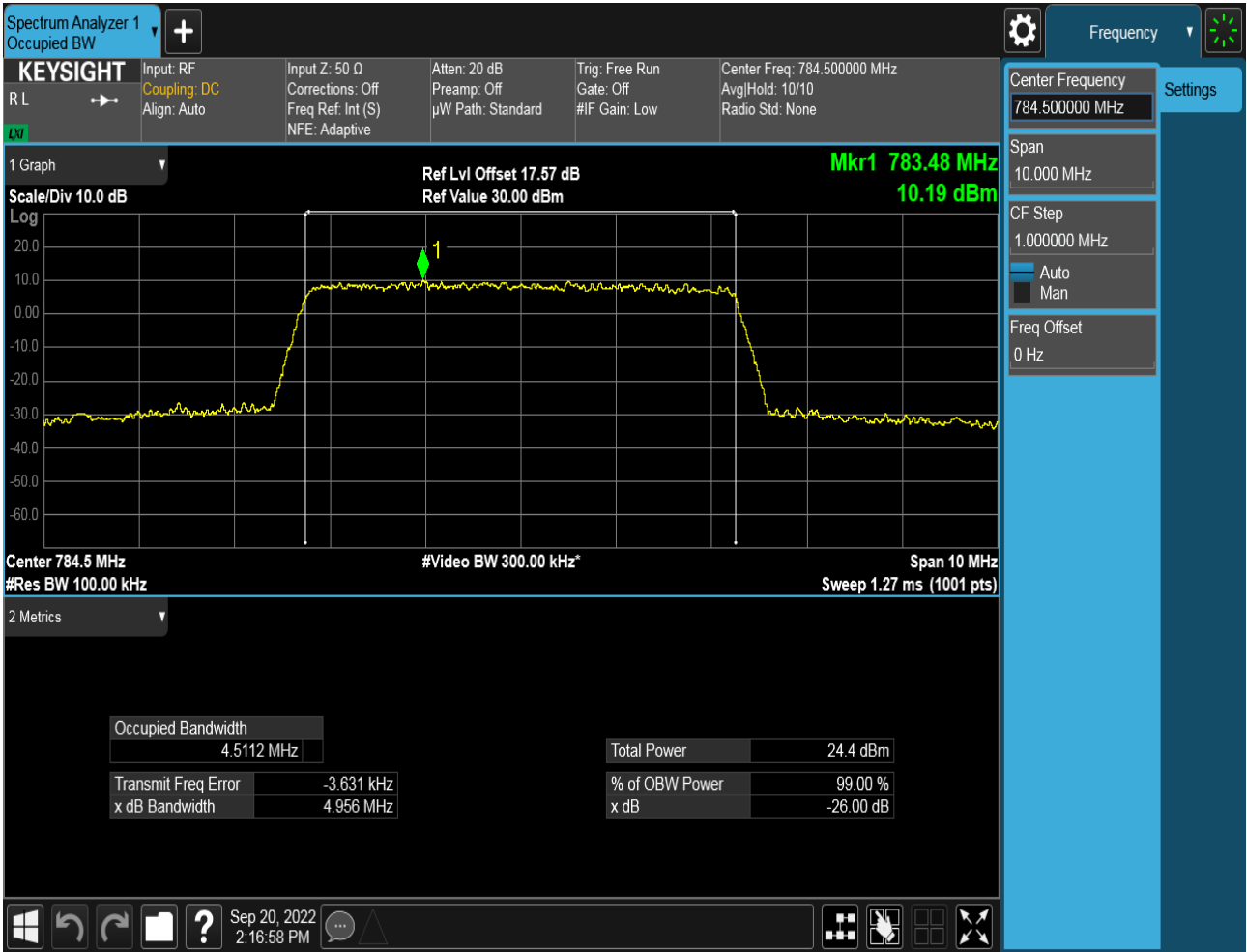
4.1.1.2.3.2.1 Test RB = RB25#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB25#0

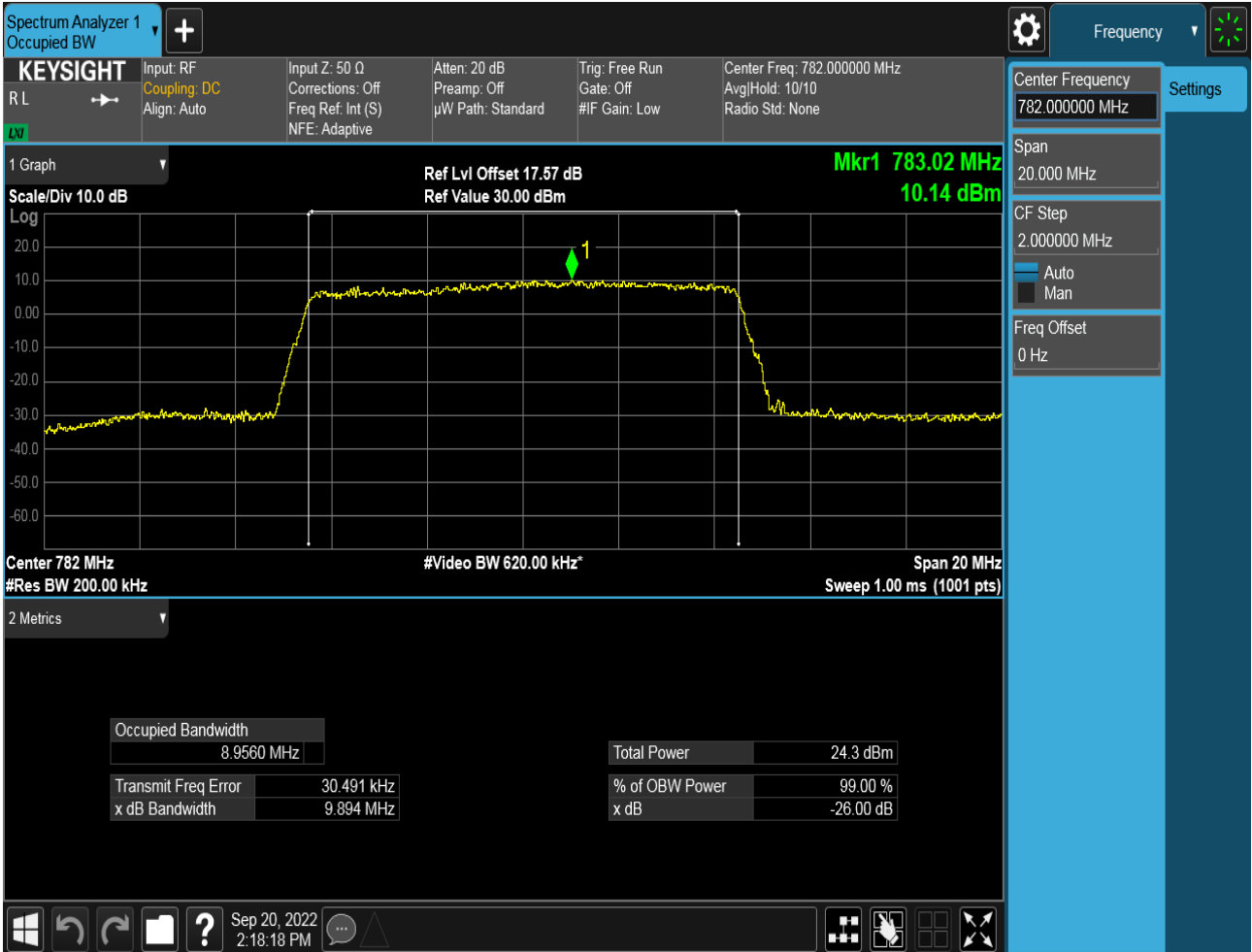




4.1.1.2.4 Test Bandwidth = 10MHz

4.1.1.2.4.2 Test Channel = MCH

4.1.1.2.4.2.1 Test RB = RB50#0





5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

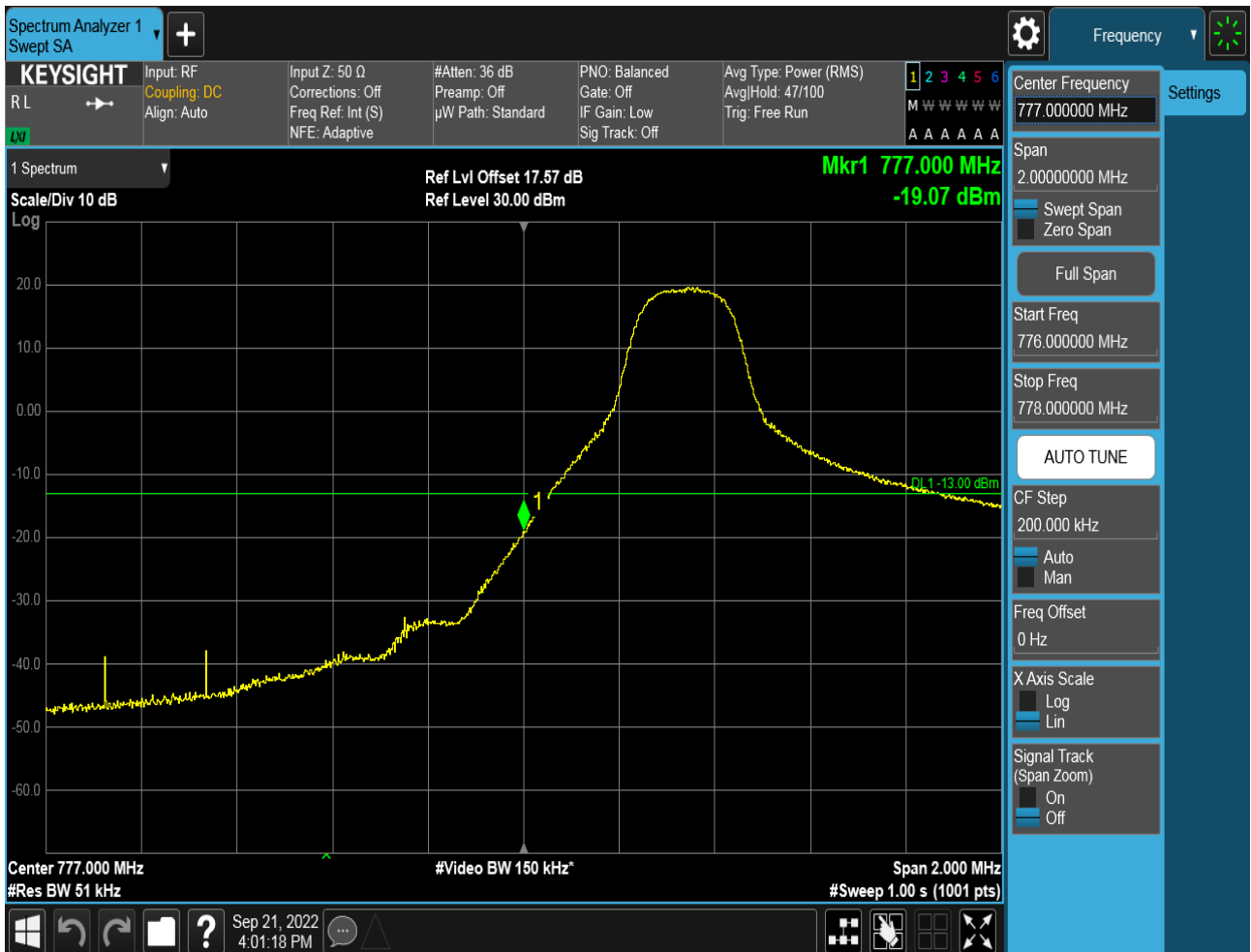
5.1.1 Test Band = Band13

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.3 Test Bandwidth = 5MHz

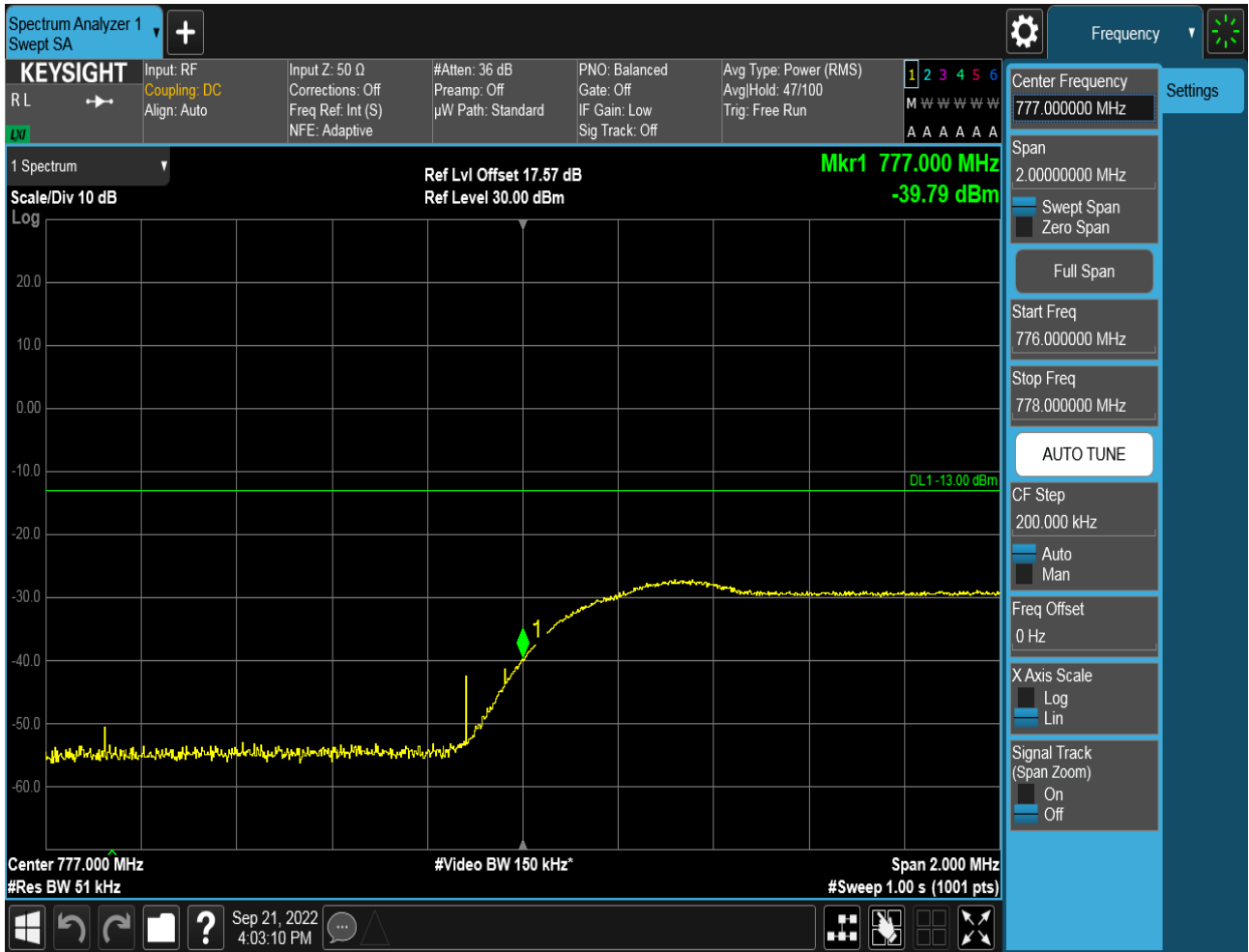
5.1.1.1.3.1 Test Channel = LCH

5.1.1.1.3.1.1 Test RB = RB1#0





5.1.1.1.3.1.2 Test RB = RB1#24



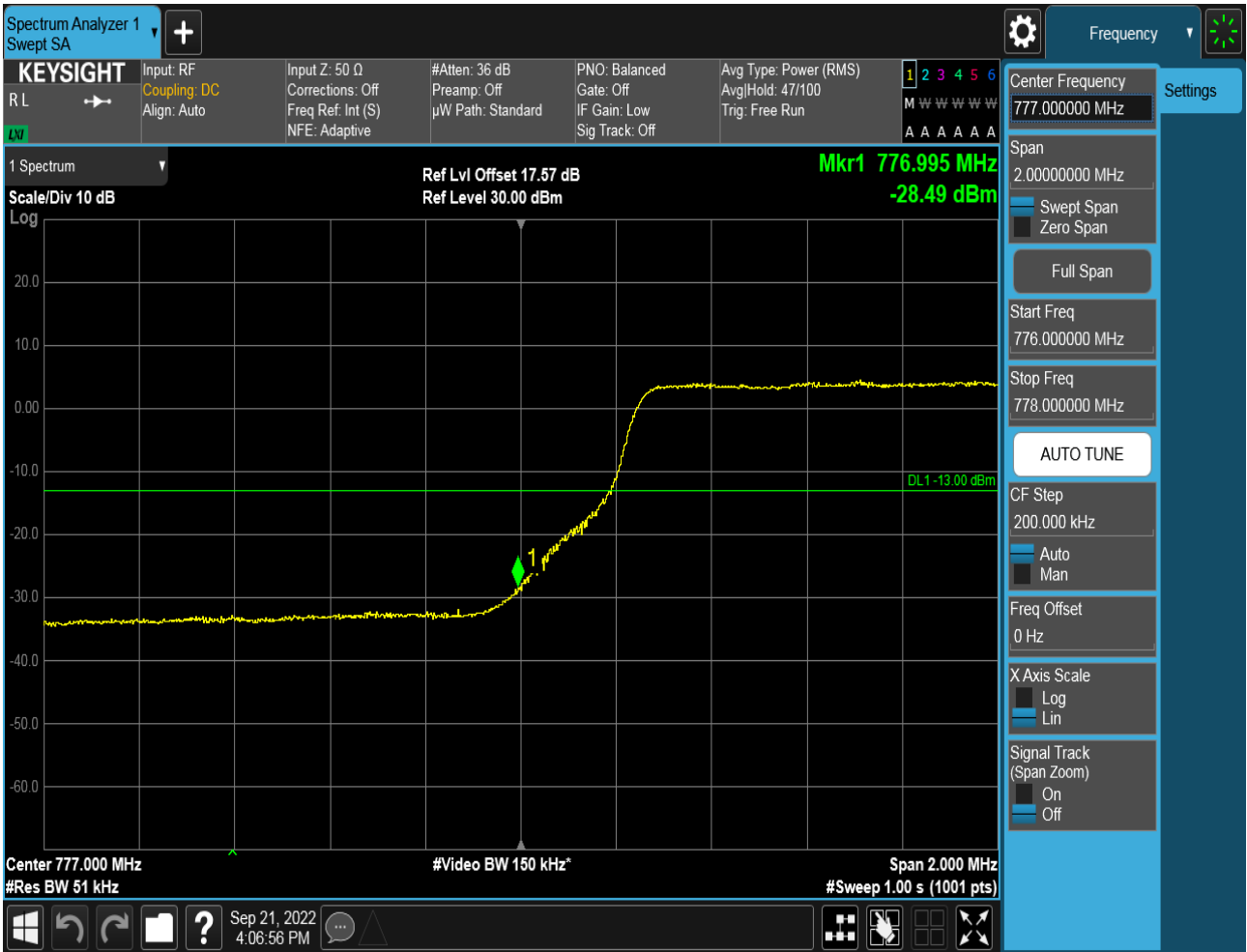


5.1.1.1.3.1.3 Test RB = RB12#6





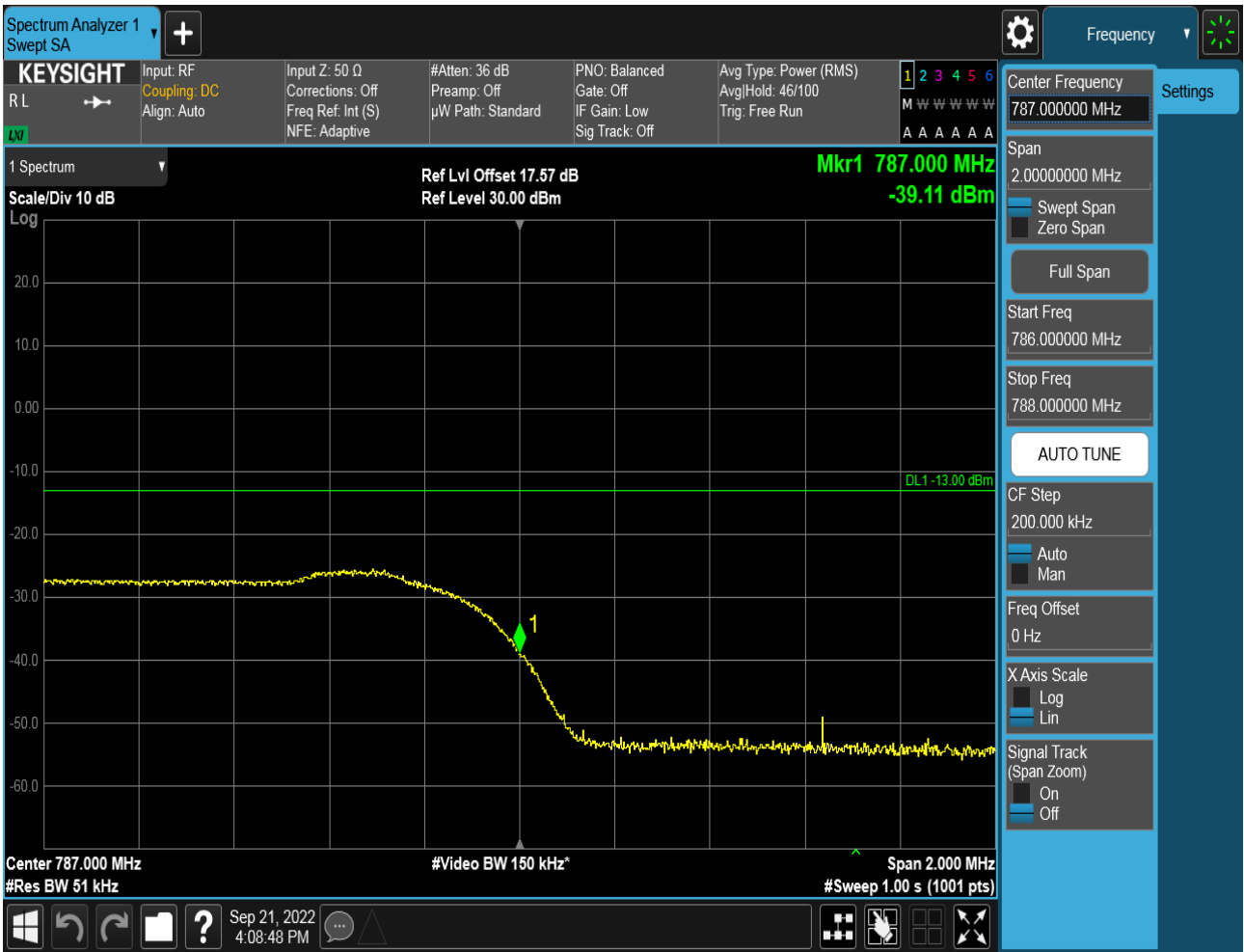
5.1.1.1.3.1.4 Test RB = RB25#0





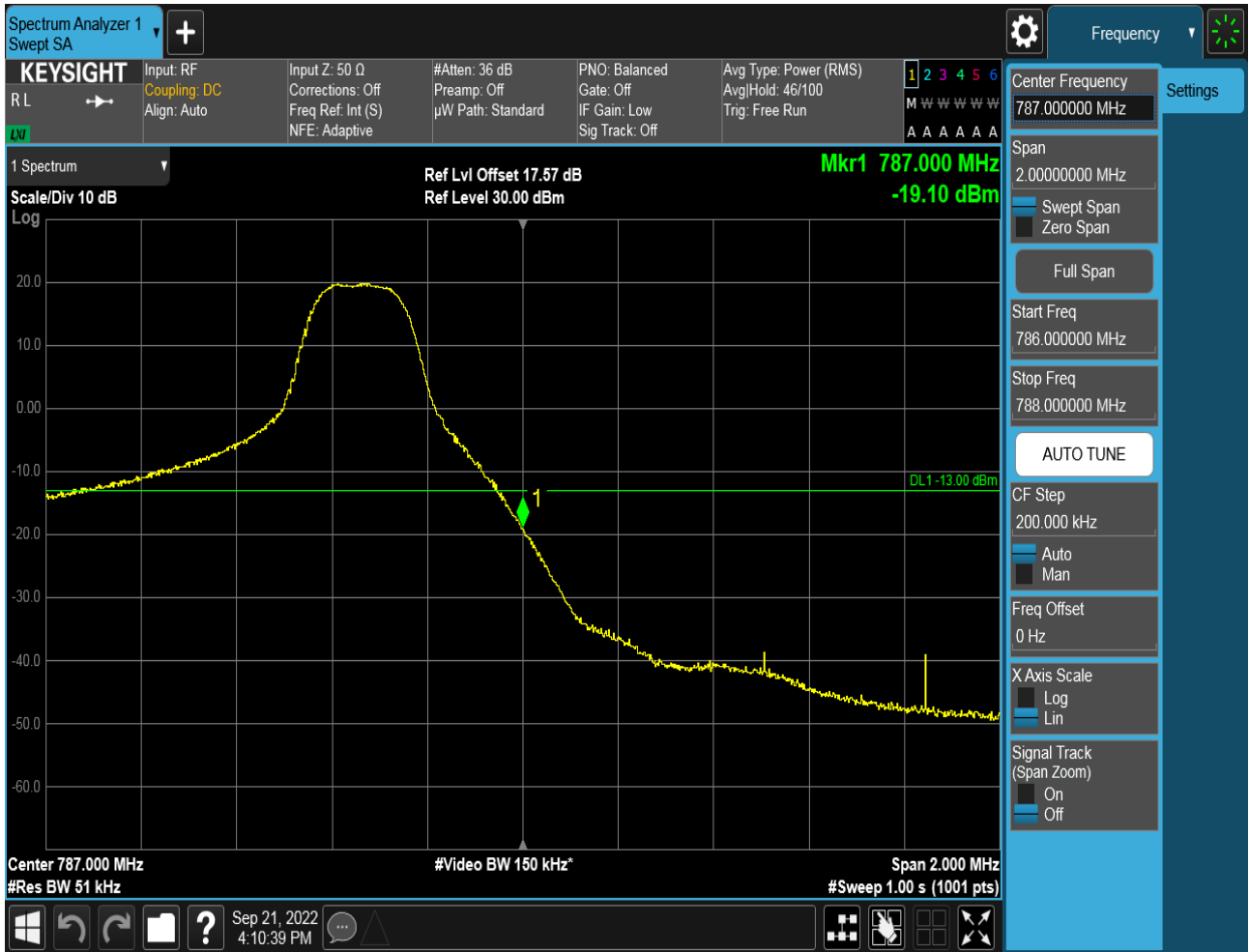
5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0





5.1.1.1.3.2.2 Test RB = RB1#24





5.1.1.1.3.2.3 Test RB = RB12#6





5.1.1.1.3.2.4 Test RB = RB25#0

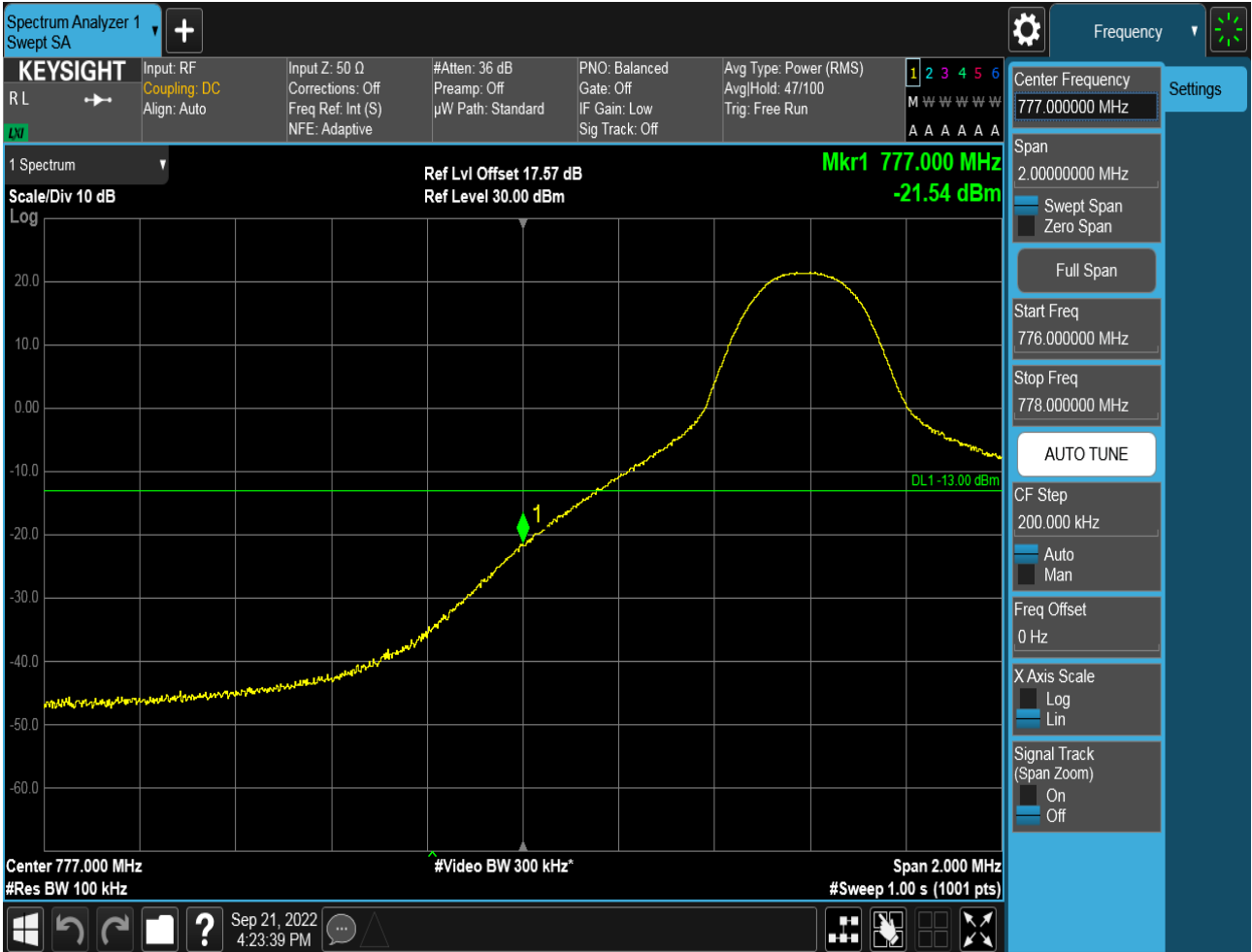




5.1.1.1.4 Test Bandwidth = 10MHz

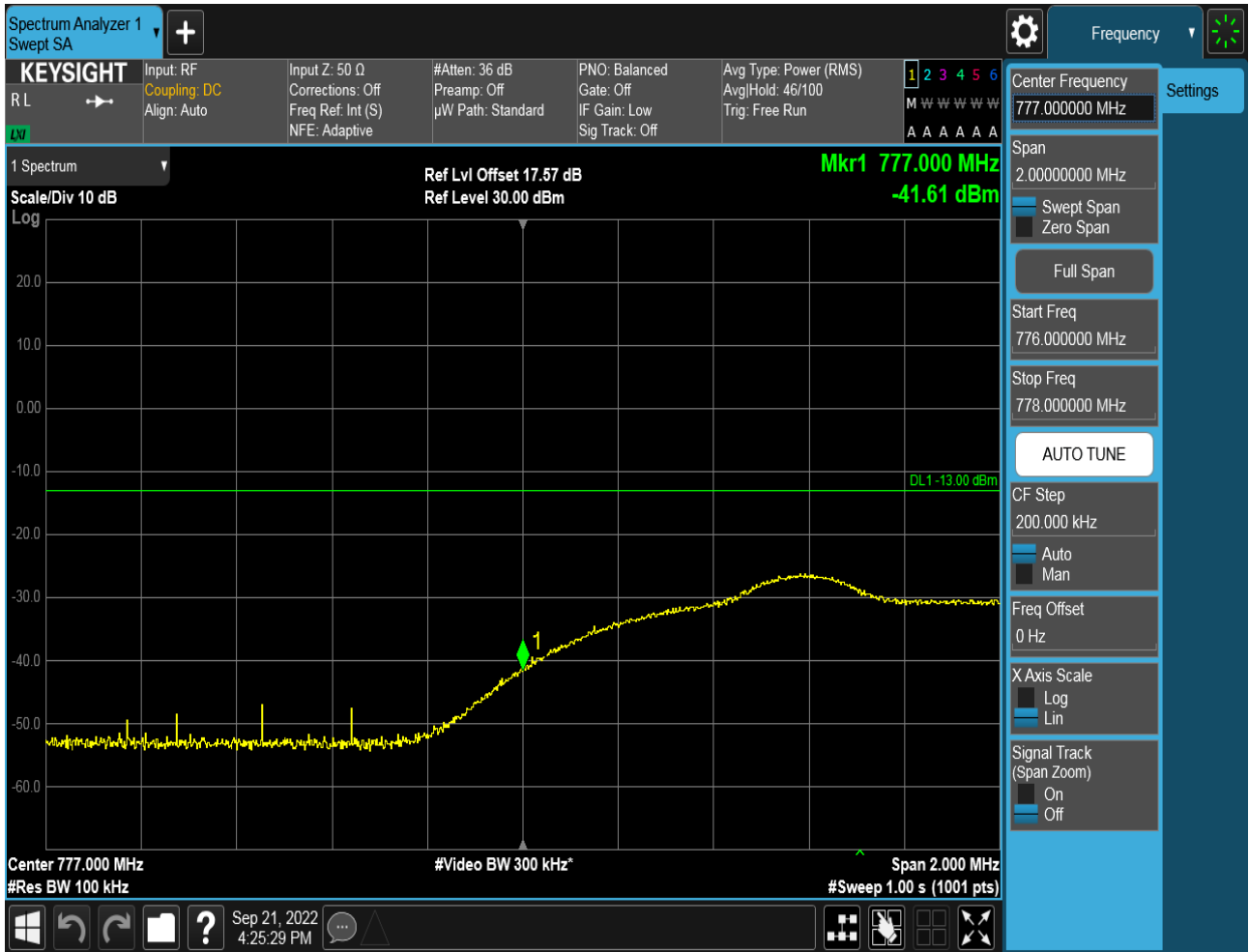
5.1.1.1.4.1 Test Channel = LCH

5.1.1.1.4.1.1 Test RB = RB1#0



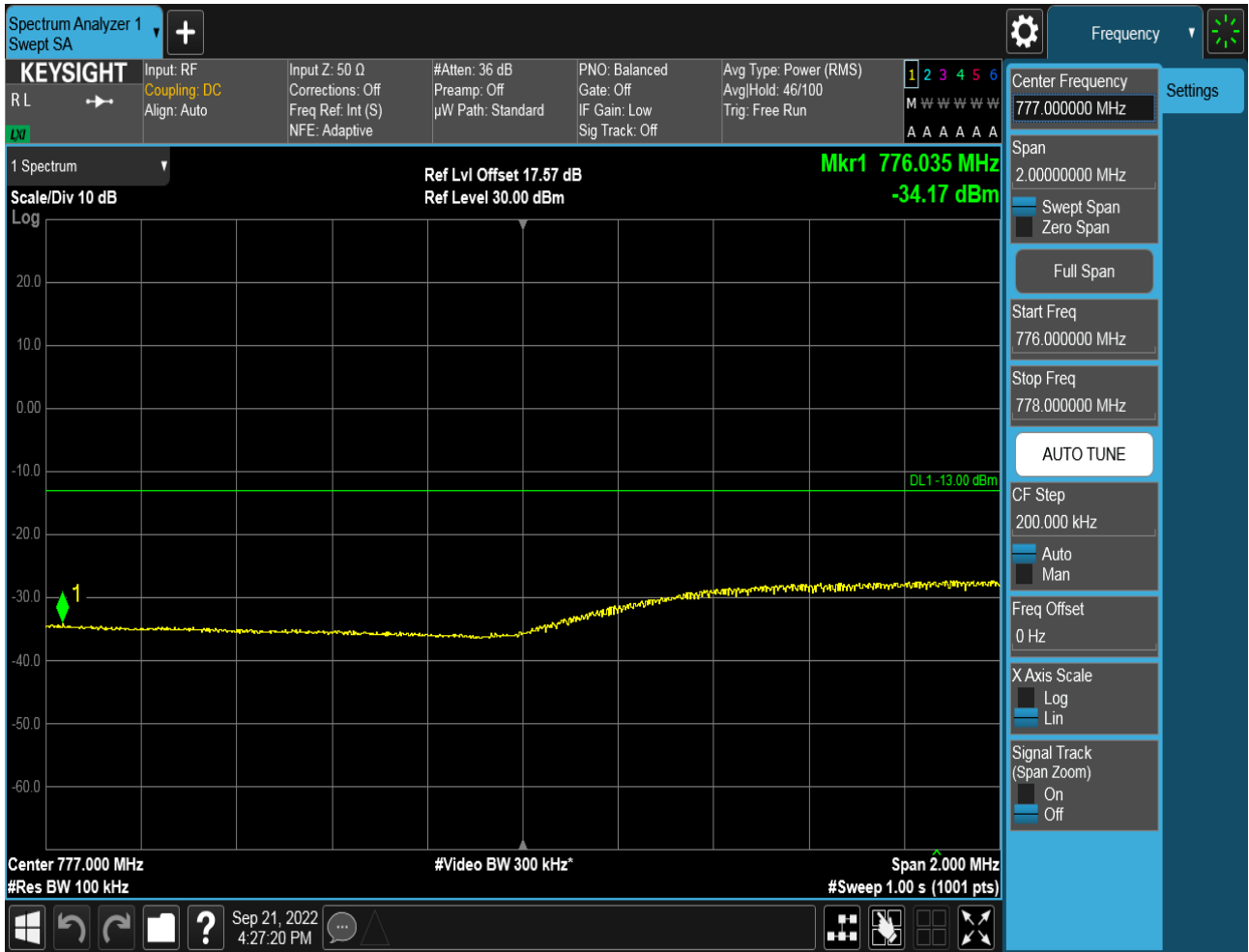


5.1.1.1.4.1.2 Test RB = RB1#49





5.1.1.1.4.1.3 Test RB = RB25#13





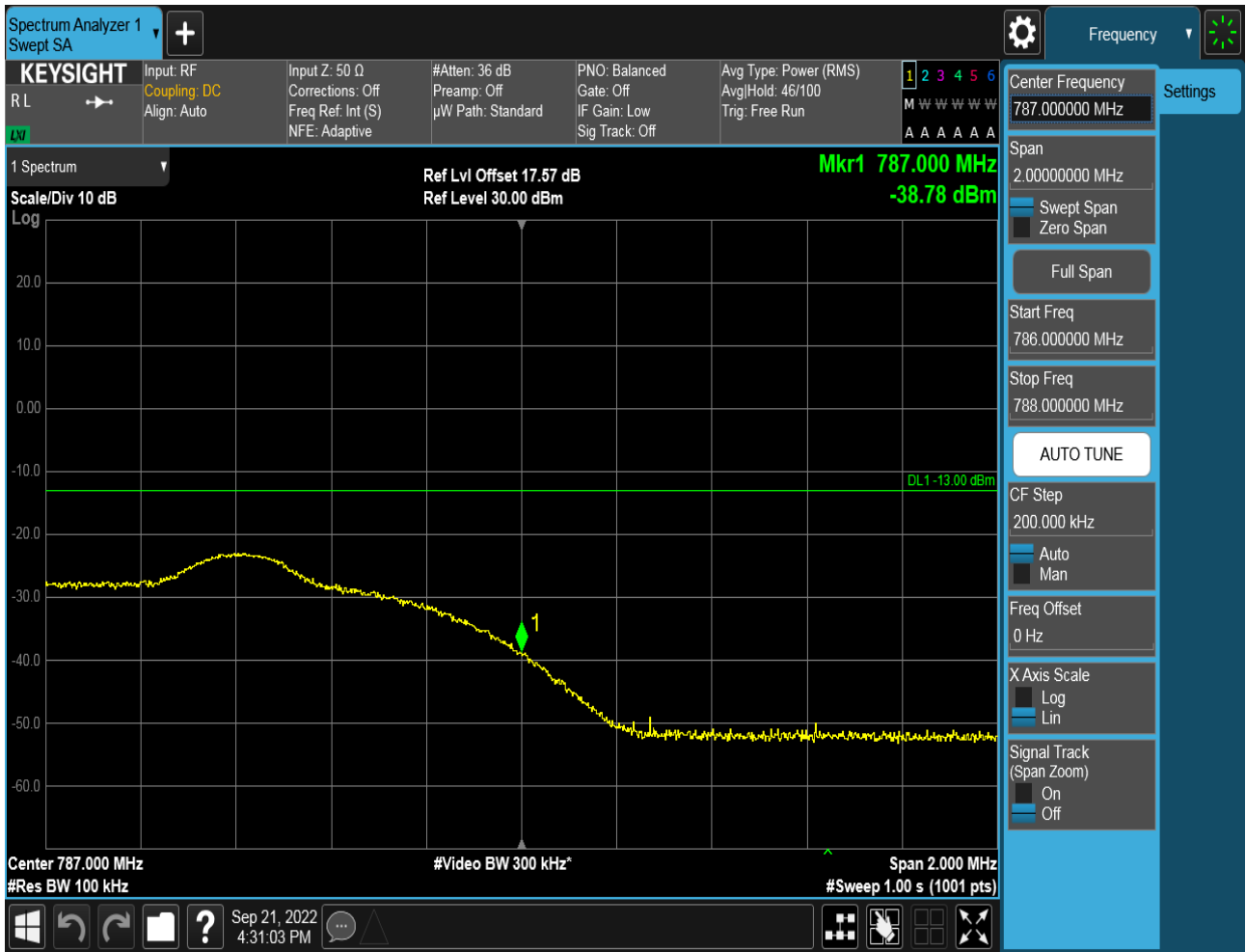
5.1.1.1.4.1.4 Test RB = RB50#0





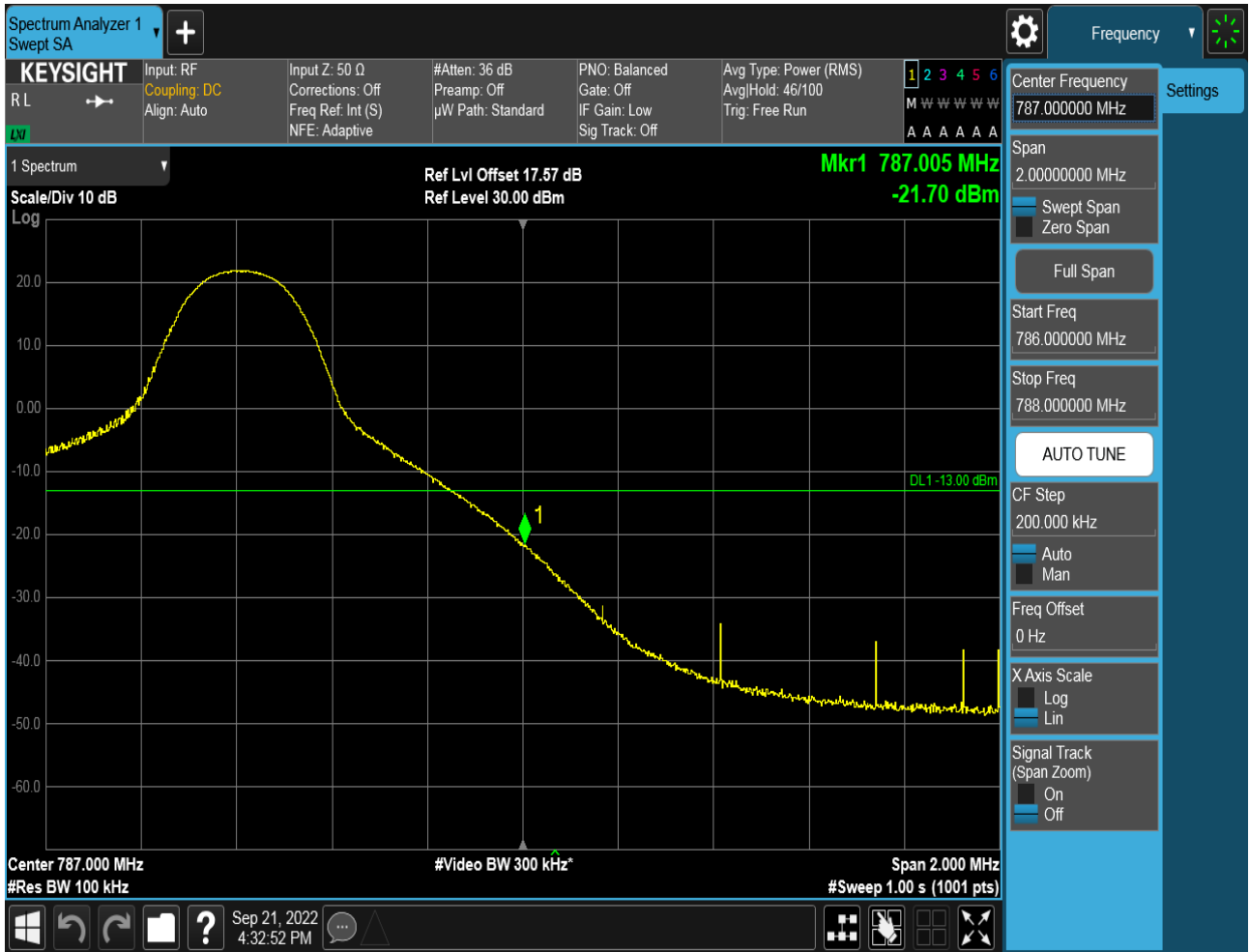
5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0





5.1.1.1.4.2.2 Test RB = RB1#49





5.1.1.1.4.2.3 Test RB = RB25#13





5.1.1.1.4.2.4 Test RB = RB50#0



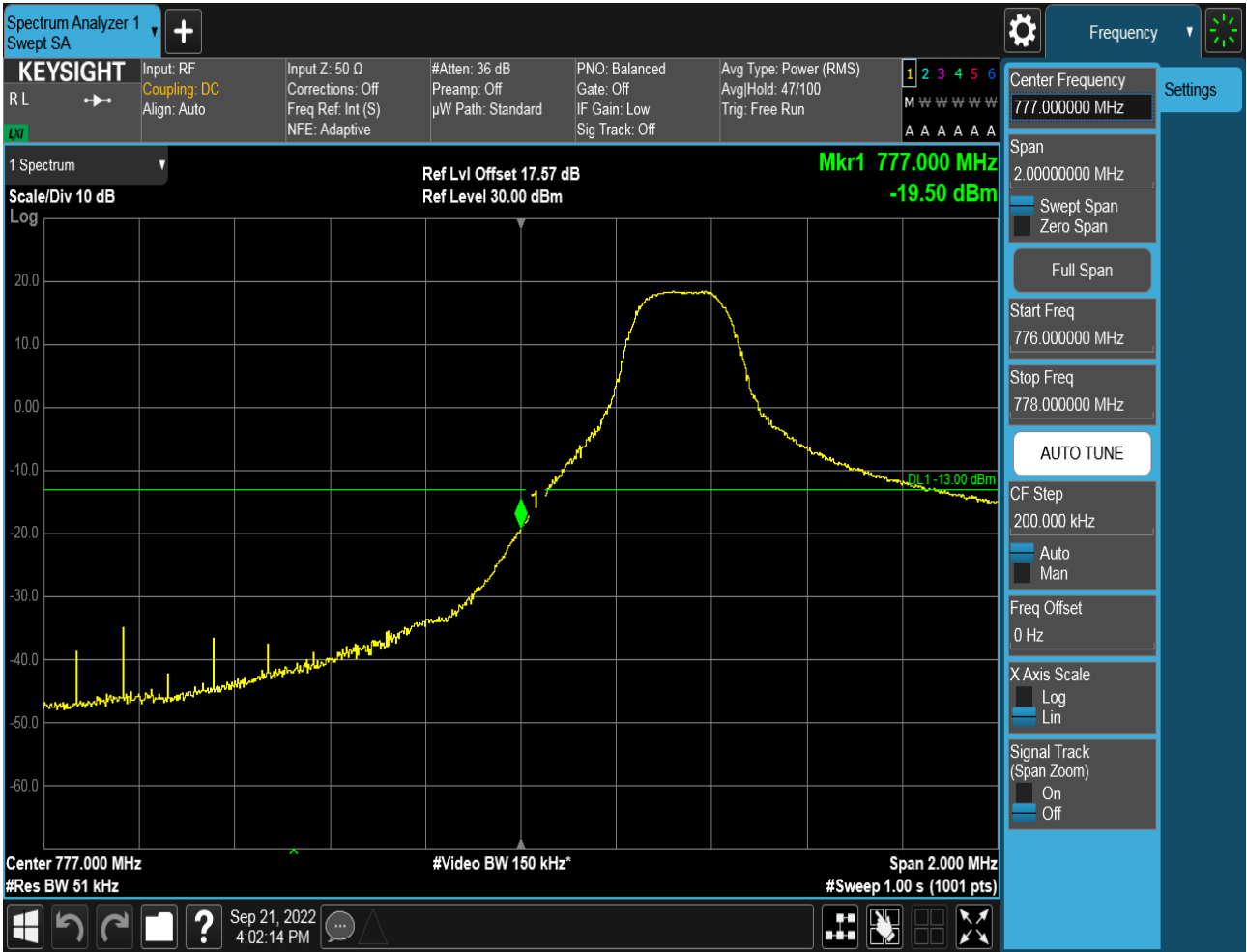


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.3 Test Bandwidth = 5MHz

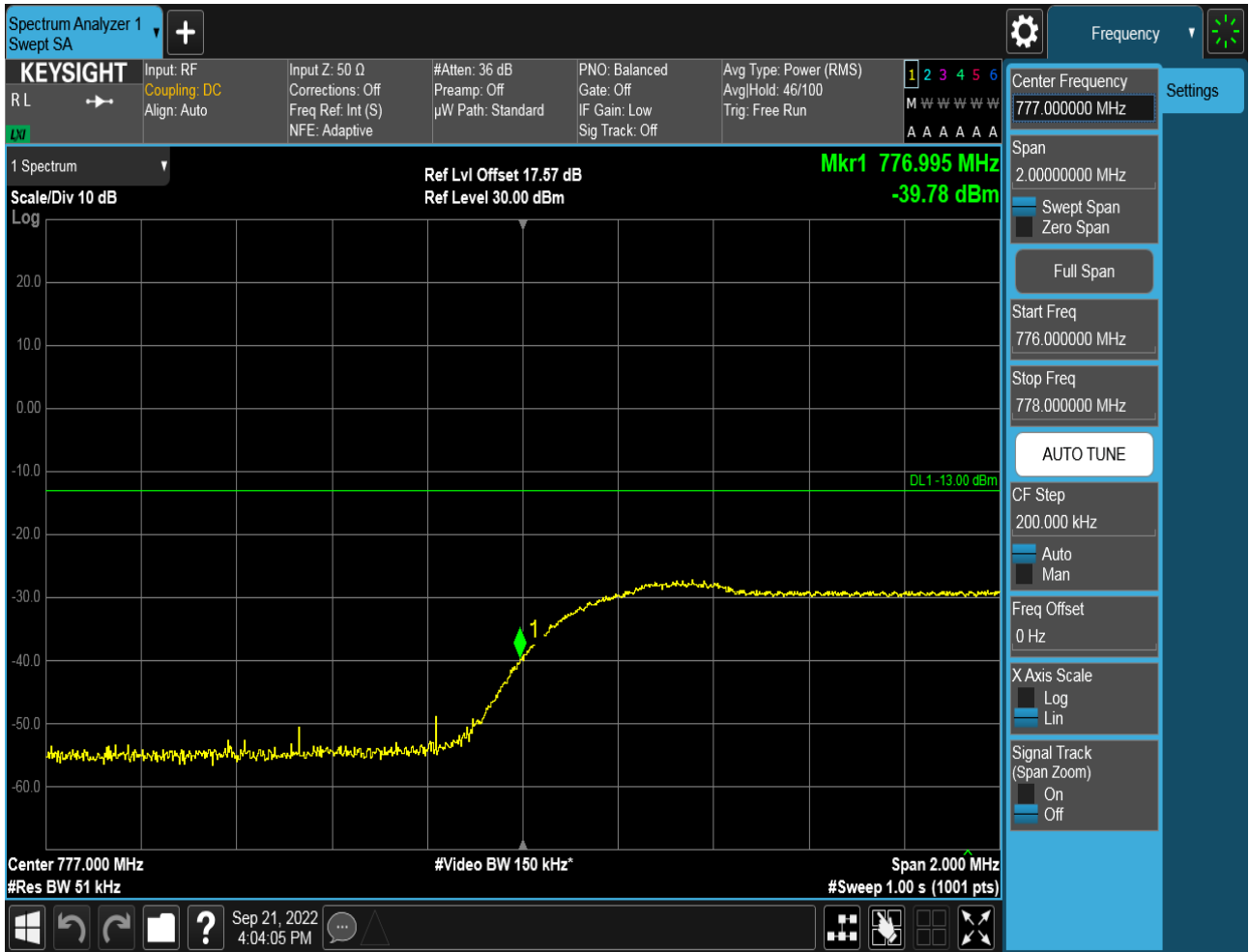
5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0



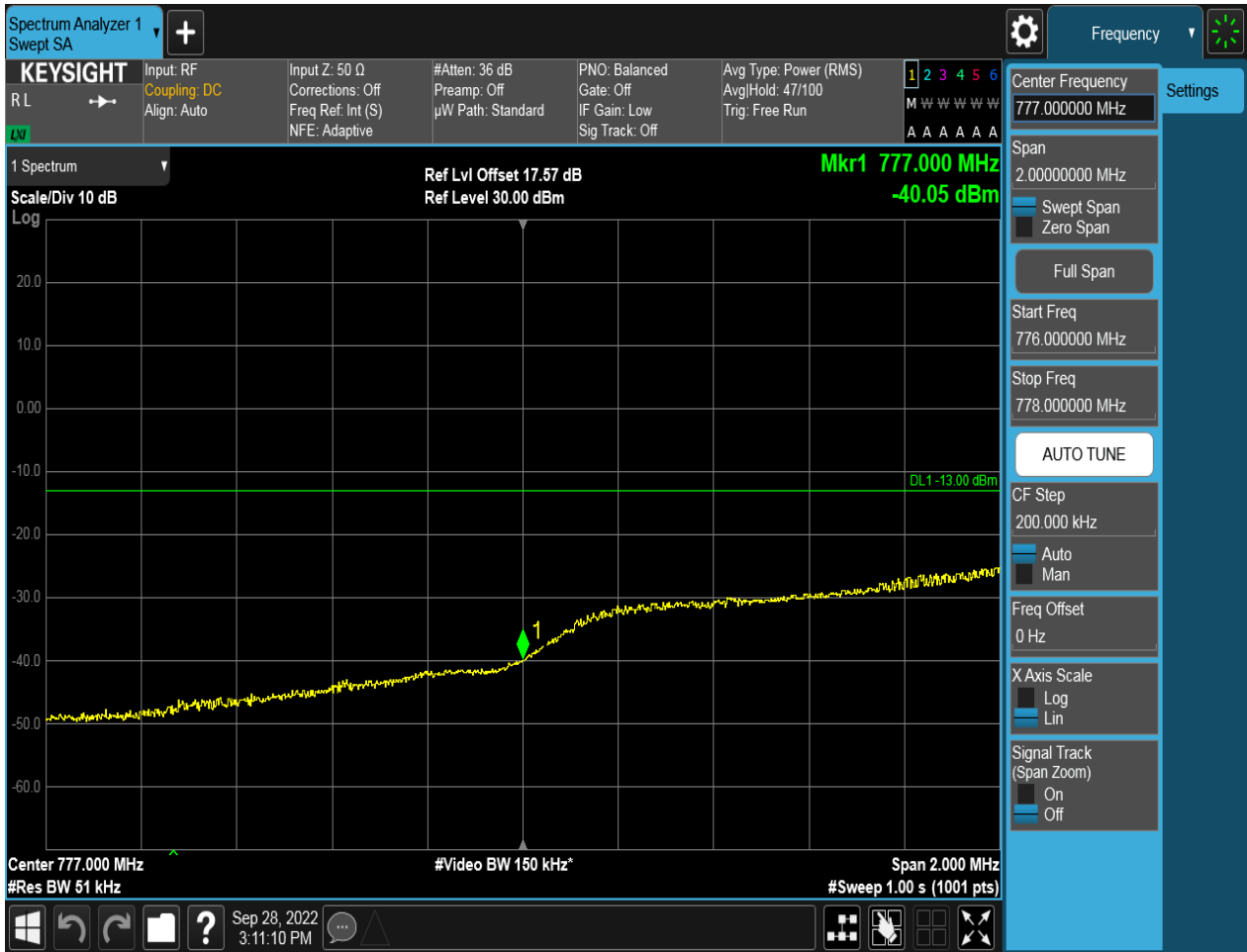


5.1.1.2.3.1.2 Test RB = RB1#24





5.1.1.2.3.1.3 Test RB = RB12#6





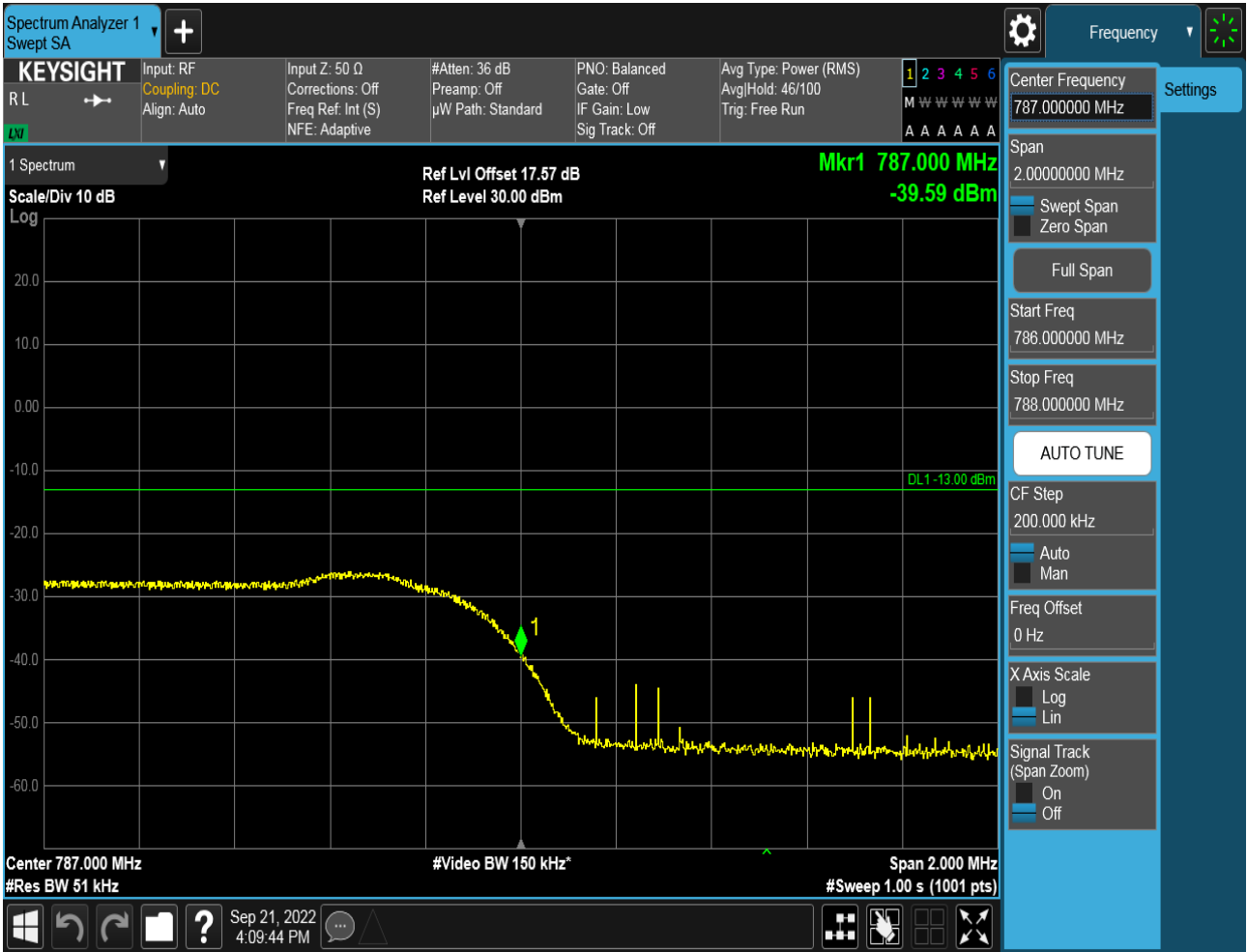
5.1.1.2.3.1.4 Test RB = RB25#0





5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0





5.1.1.2.3.2.2 Test RB = RB1#24





5.1.1.2.3.2.3 Test RB = RB12#6





5.1.1.2.3.2.4 Test RB = RB25#0

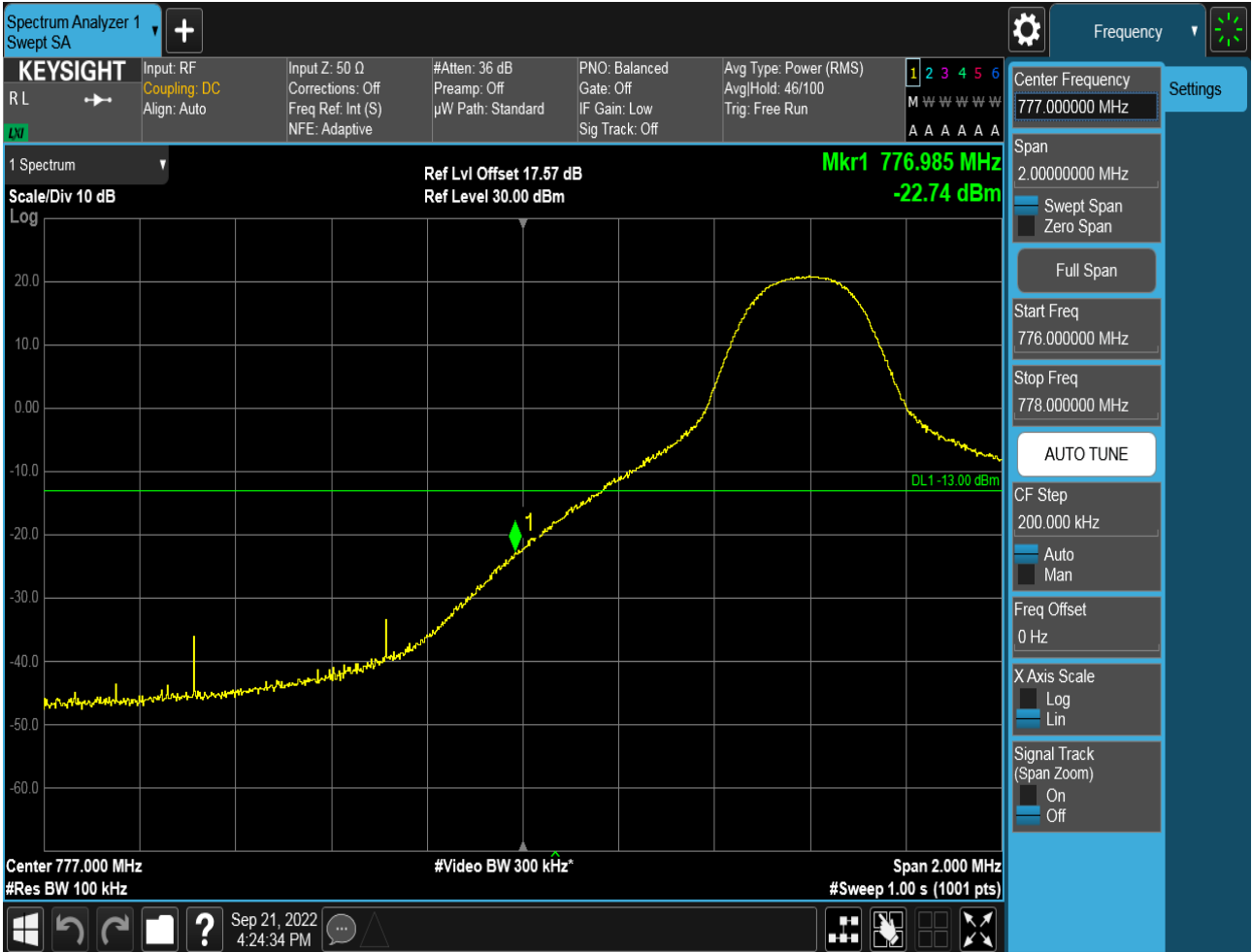




5.1.1.2.4 Test Bandwidth = 10MHz

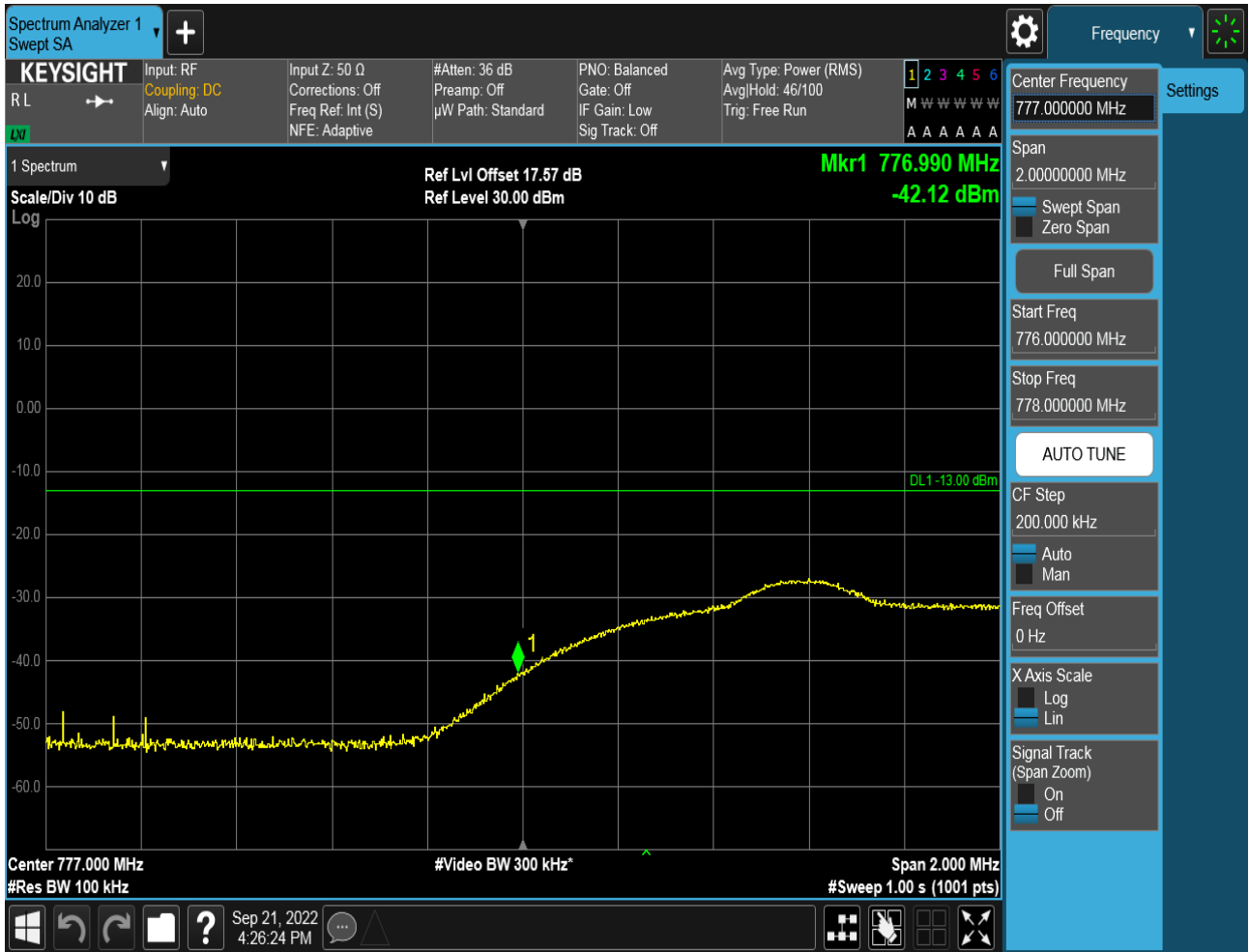
5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0



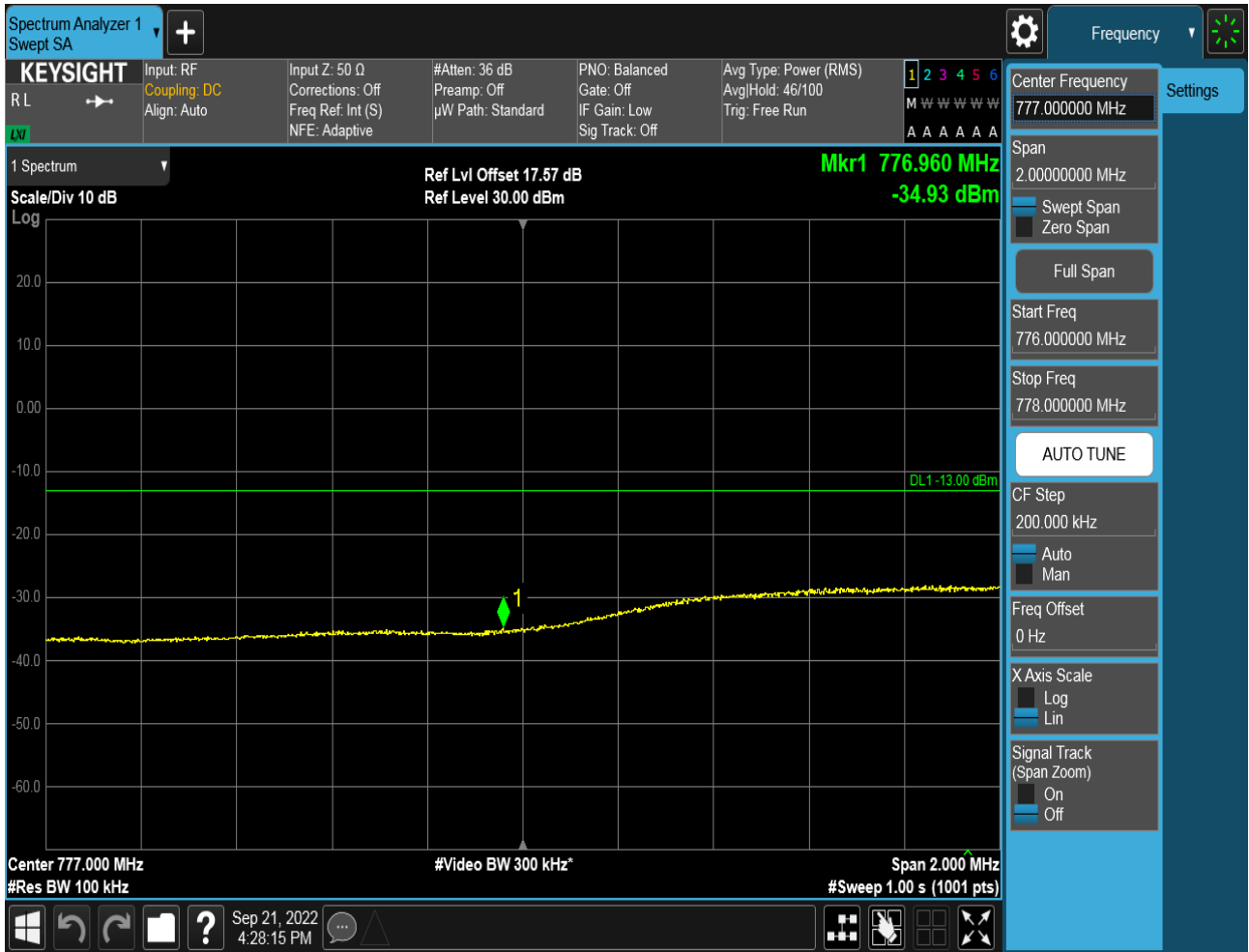


5.1.1.2.4.1.2 Test RB = RB1#49



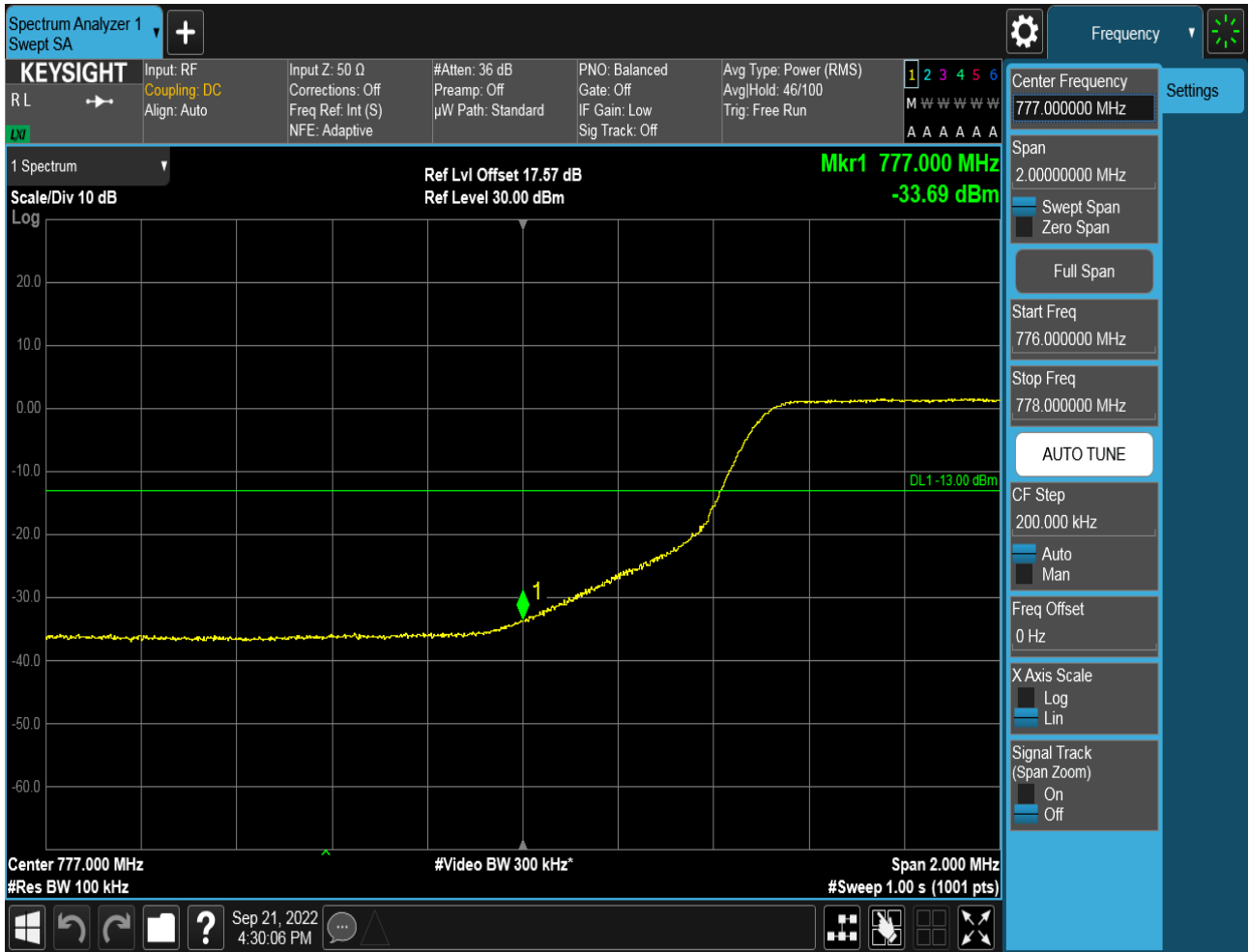


5.1.1.2.4.1.3 Test RB = RB25#13





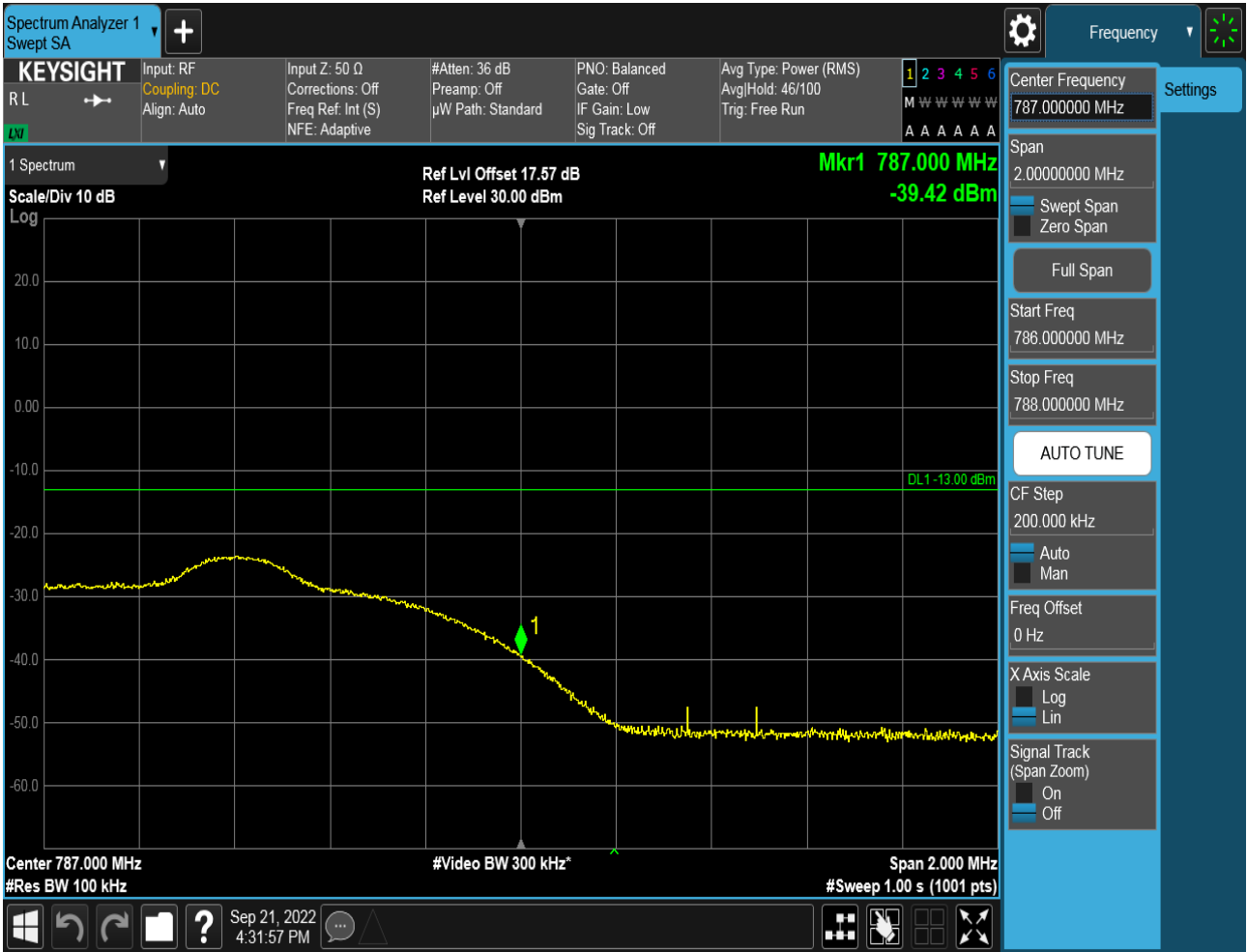
5.1.1.2.4.1.4 Test RB = RB50#0





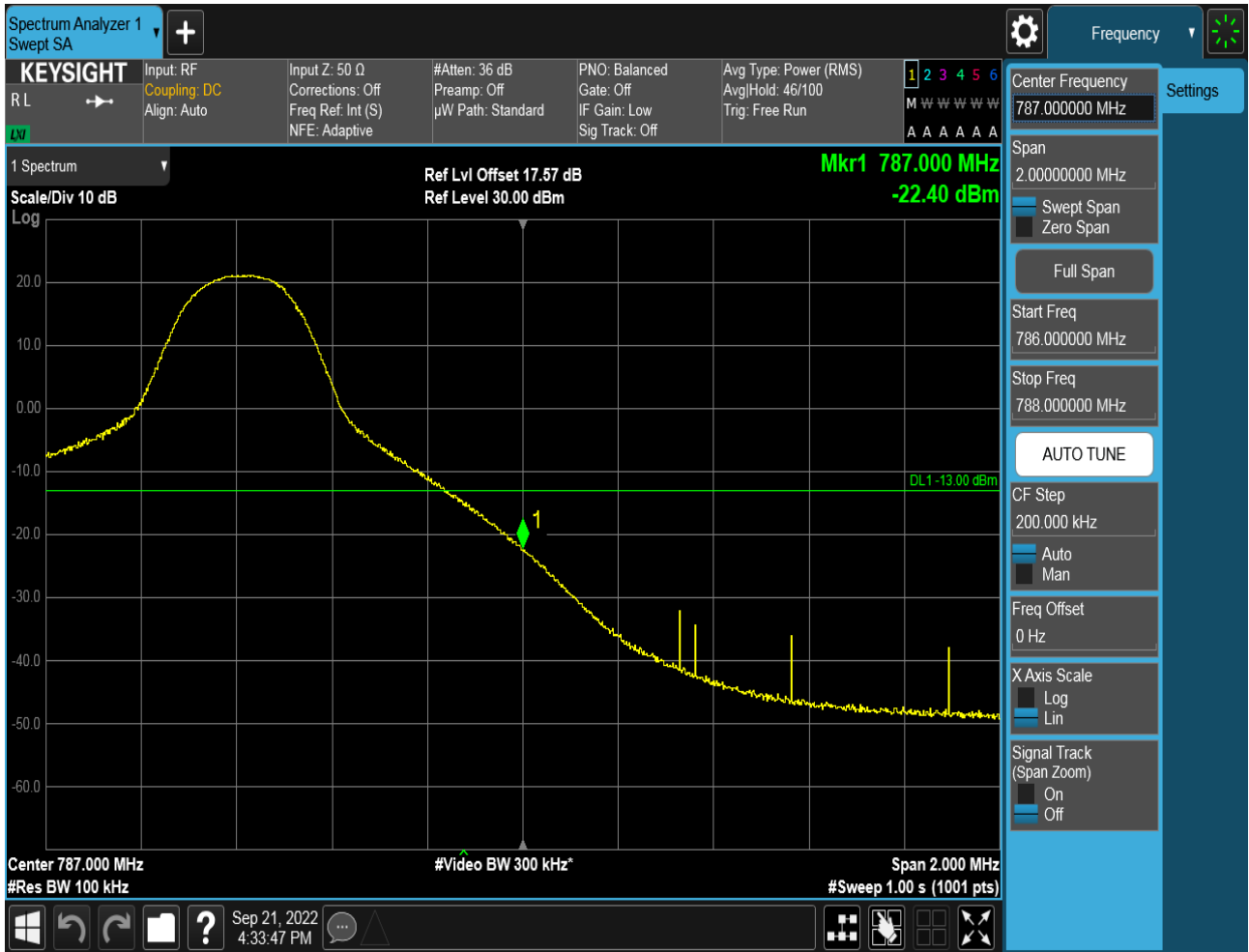
5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0





5.1.1.2.4.2.2 Test RB = RB1#49





5.1.1.2.4.2.3 Test RB = RB25#13





5.1.1.2.4.2.4 Test RB = RB50#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

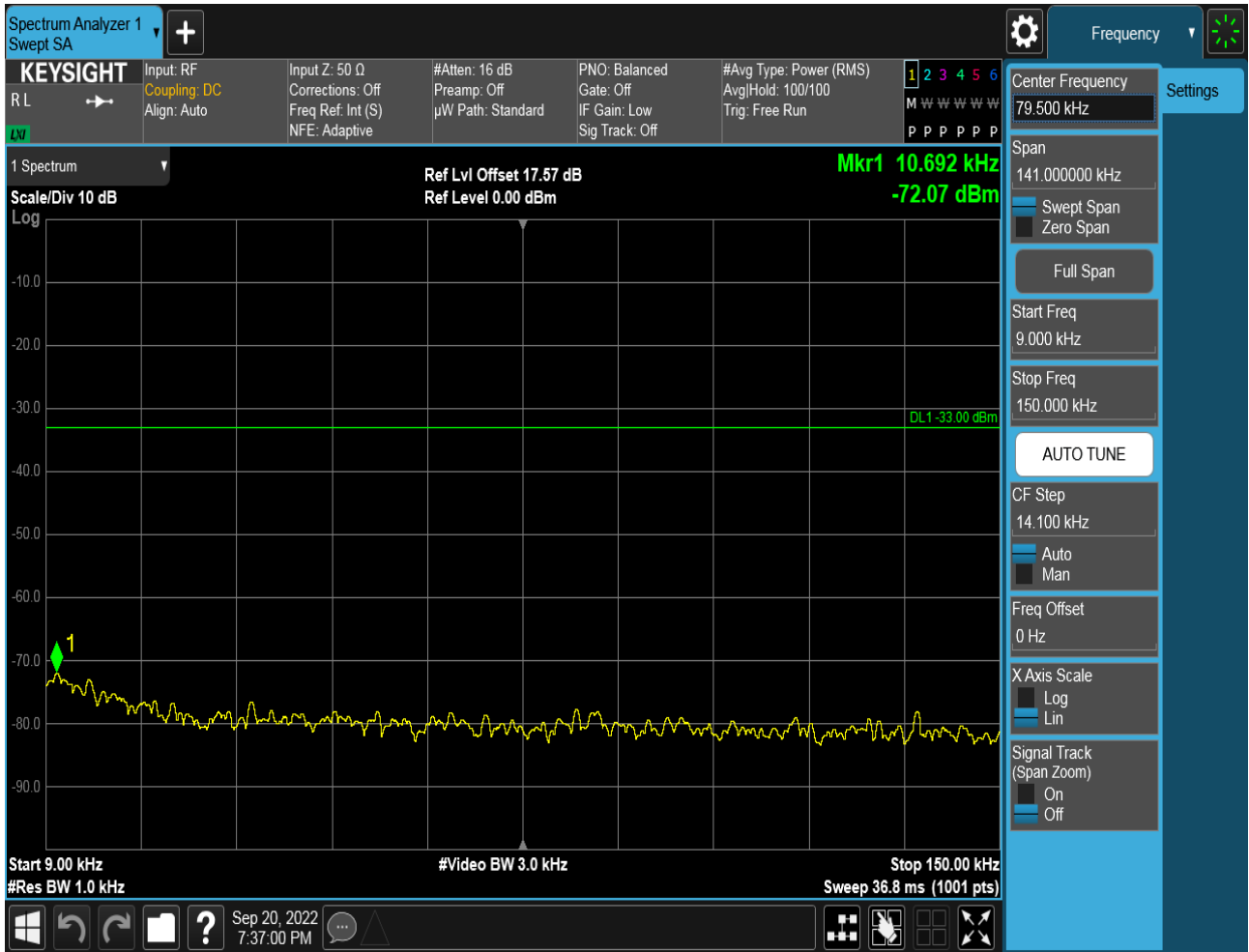
6.1.1 Test Band = Band13

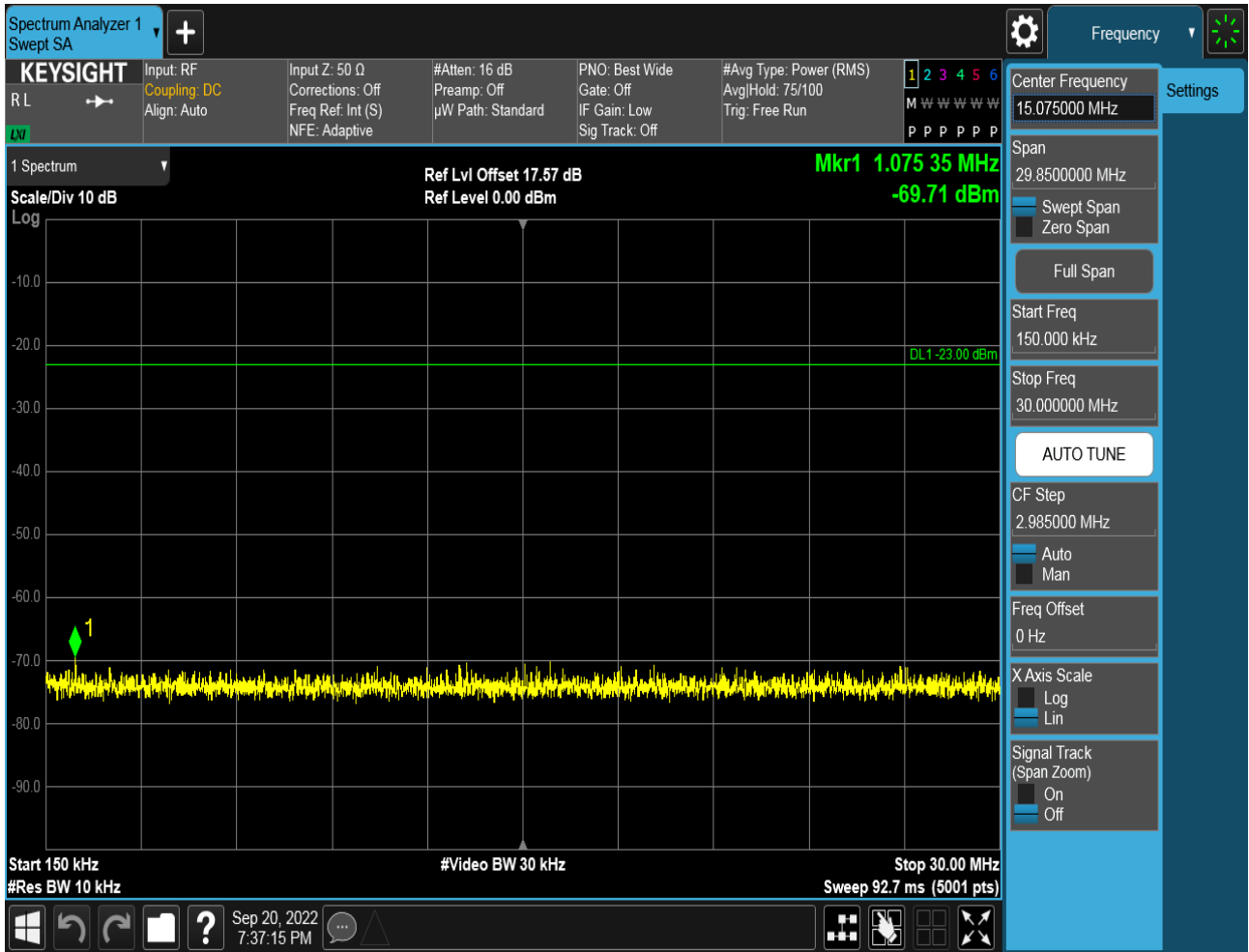
6.1.1.1 Test Mode = LTE/TM1

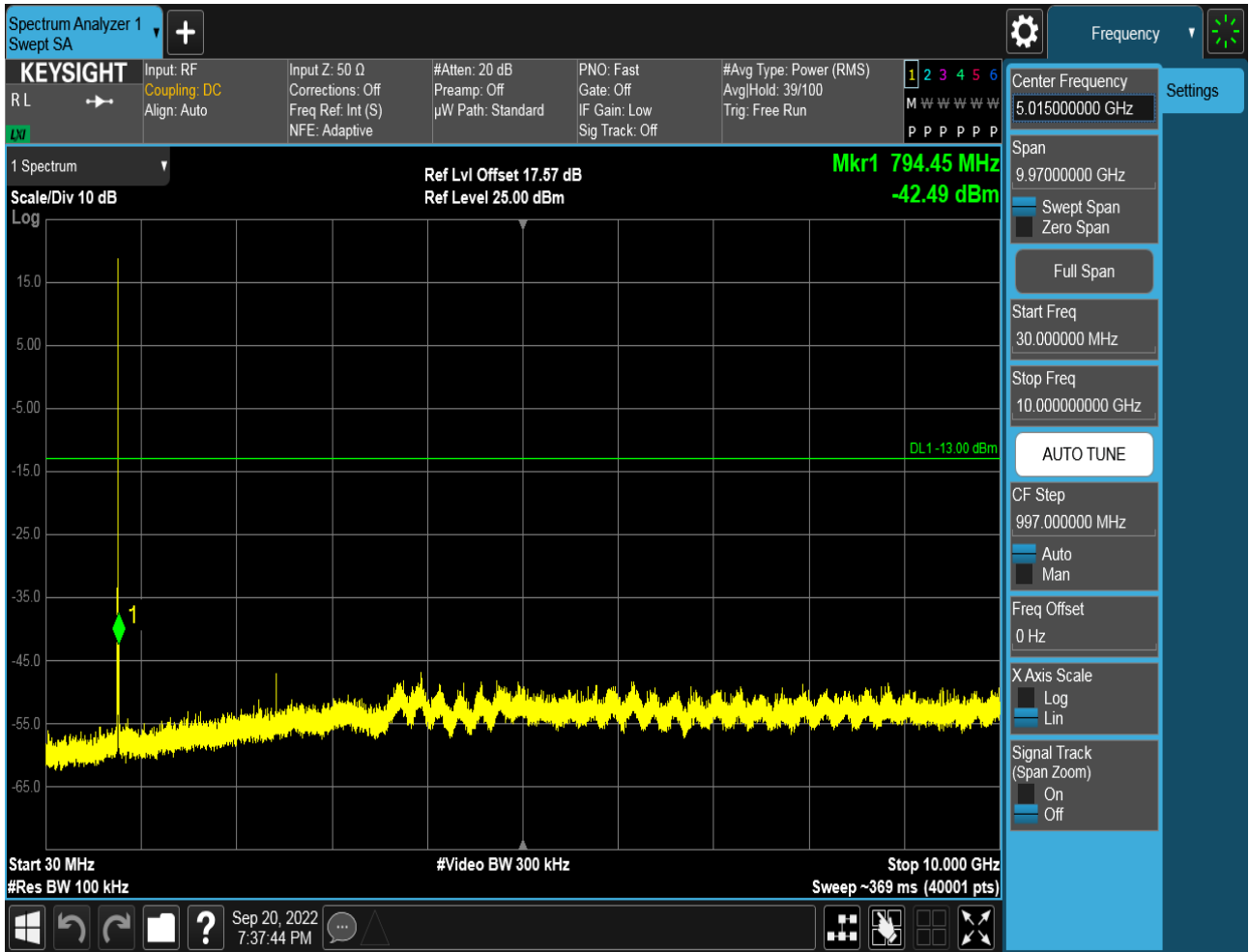
6.2.1.1.3 Test Bandwidth = 5MHz

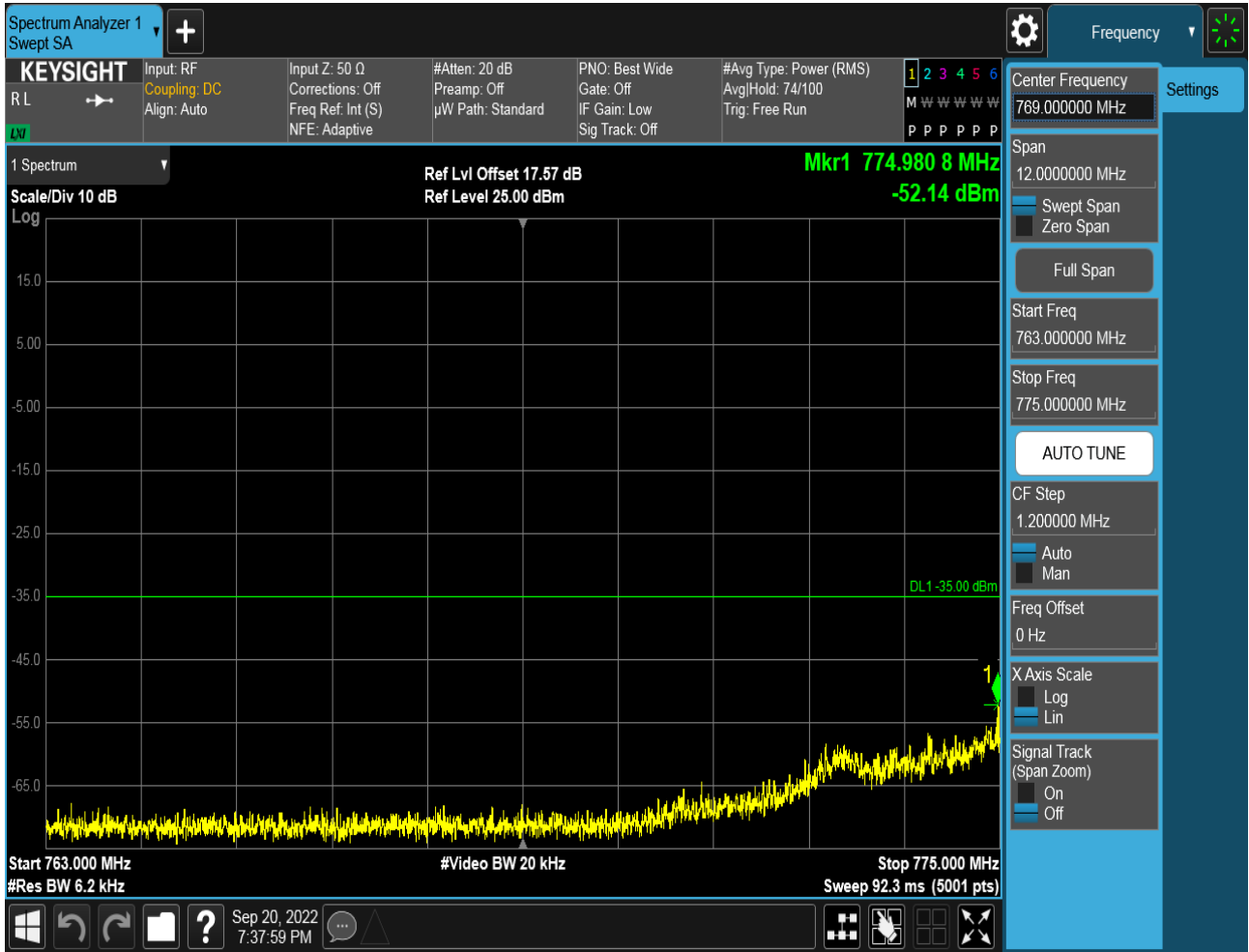
6.2.1.1.3.1 Test Channel = LCH

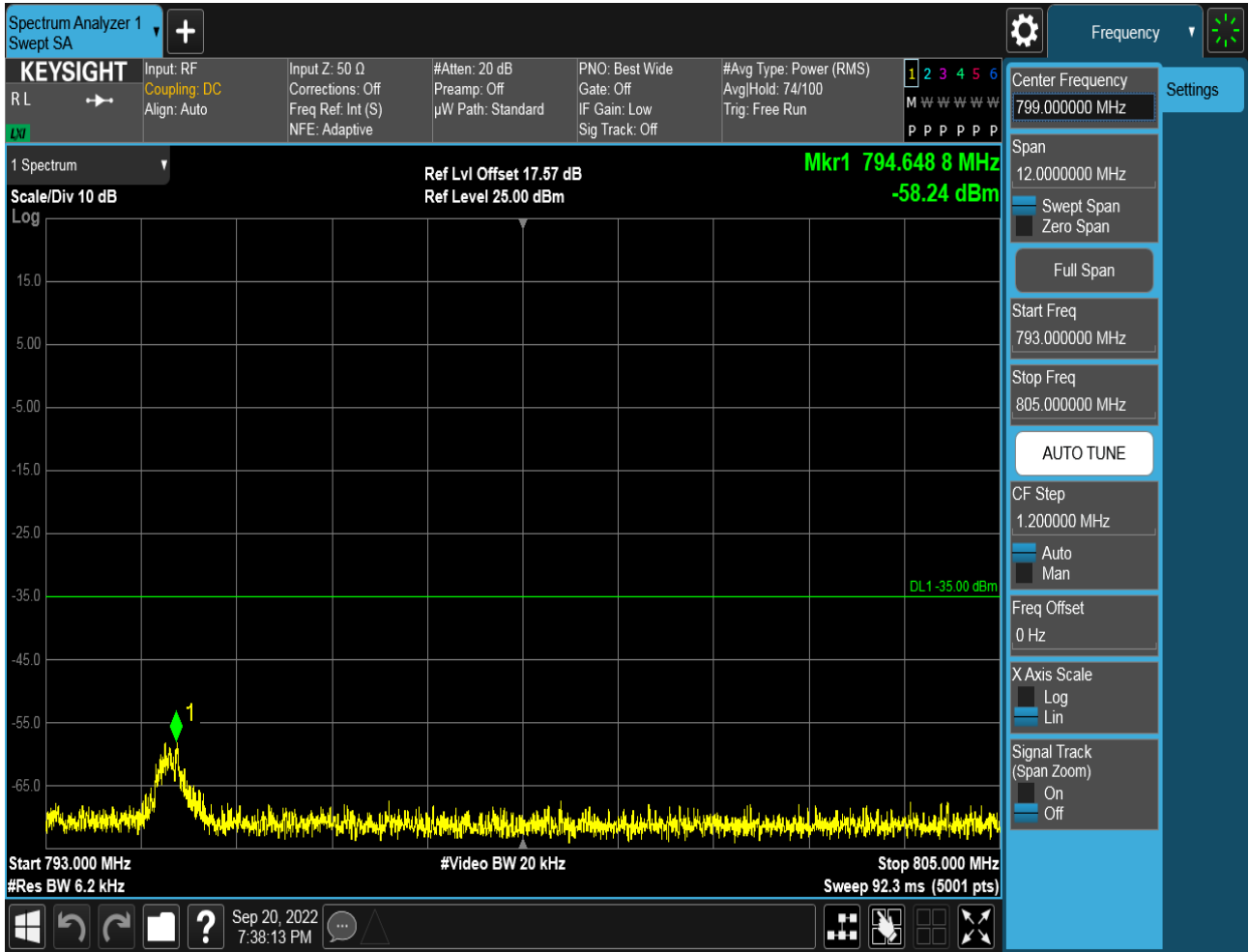
6.2.1.1.3.1.1 Test RB = RB1#0







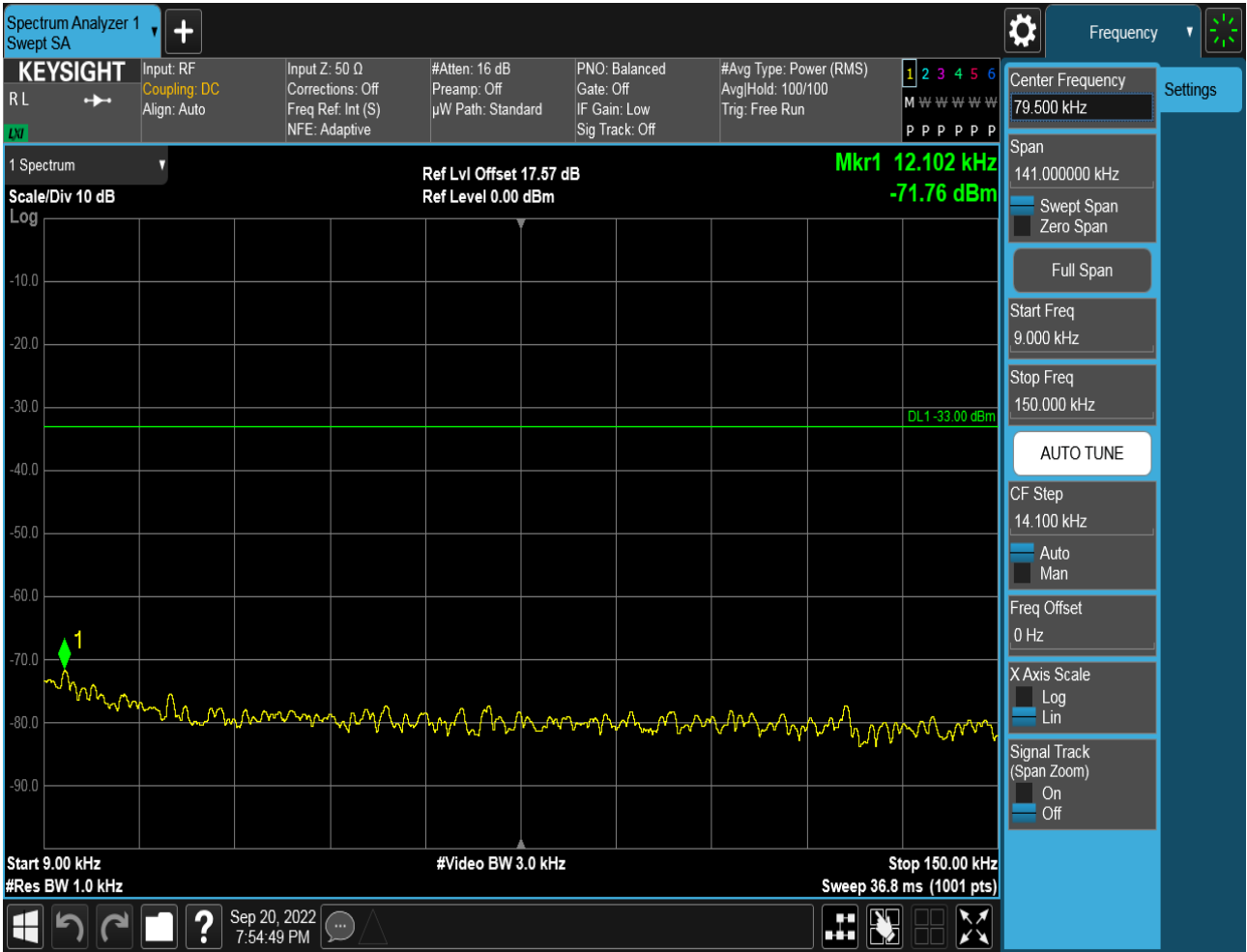


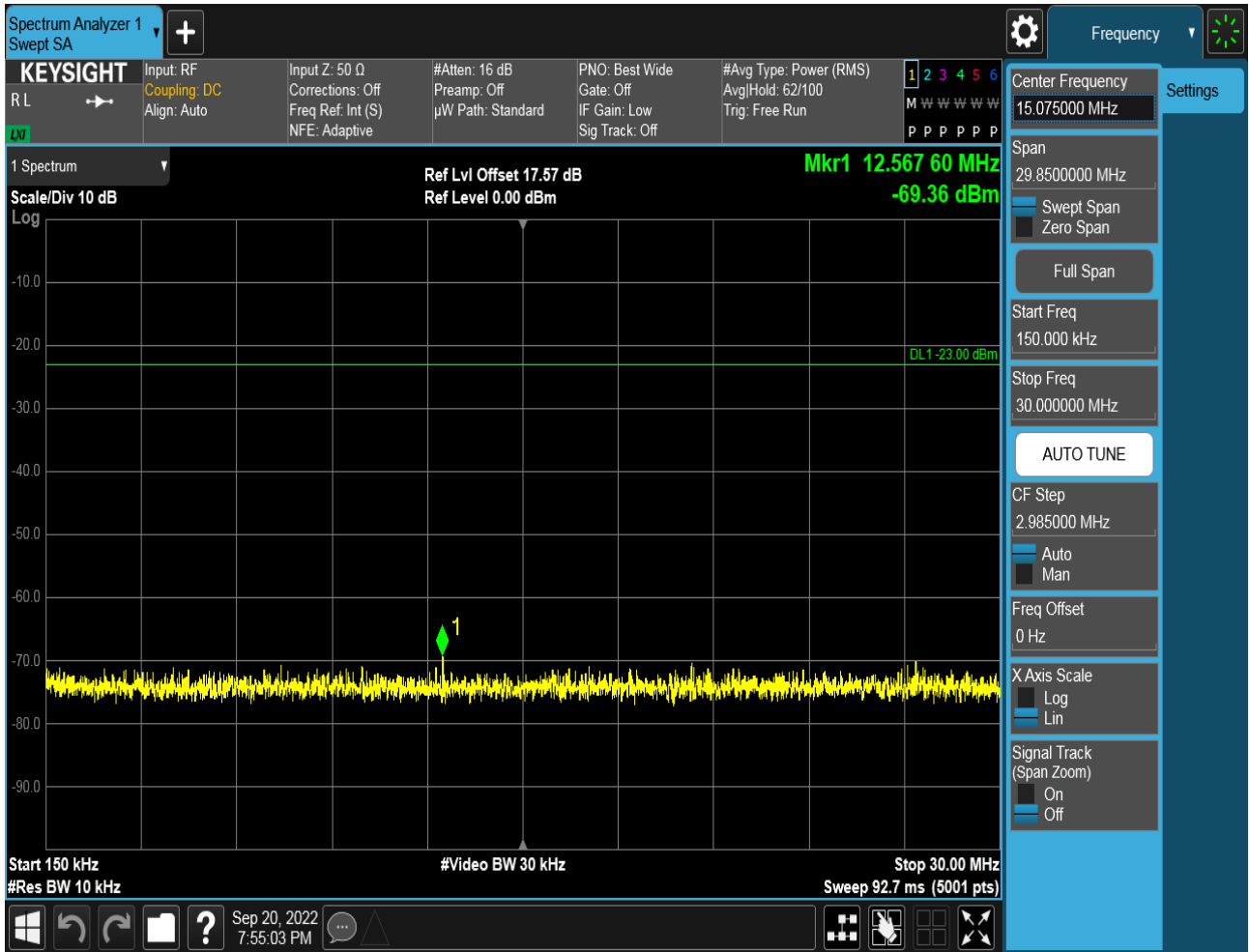


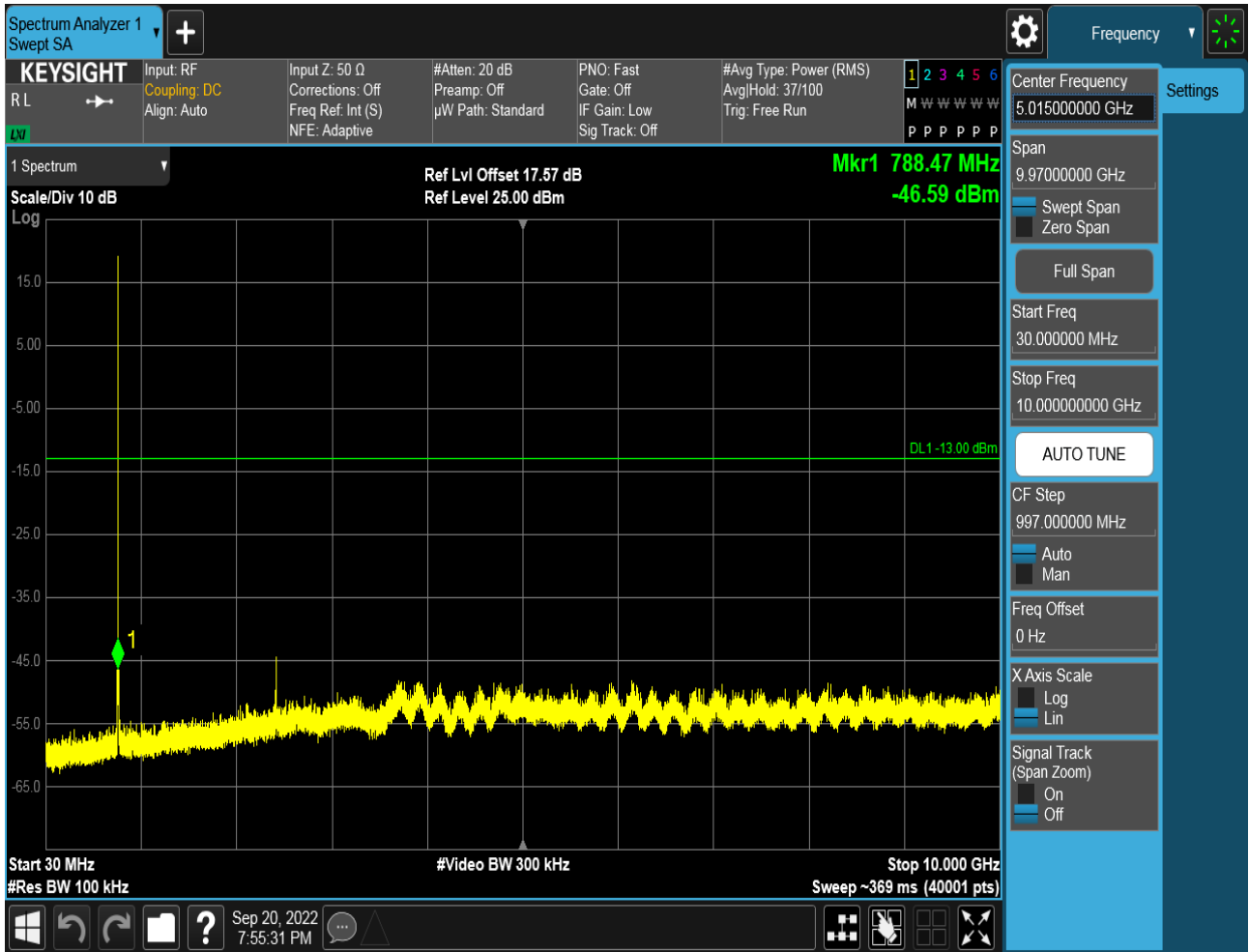


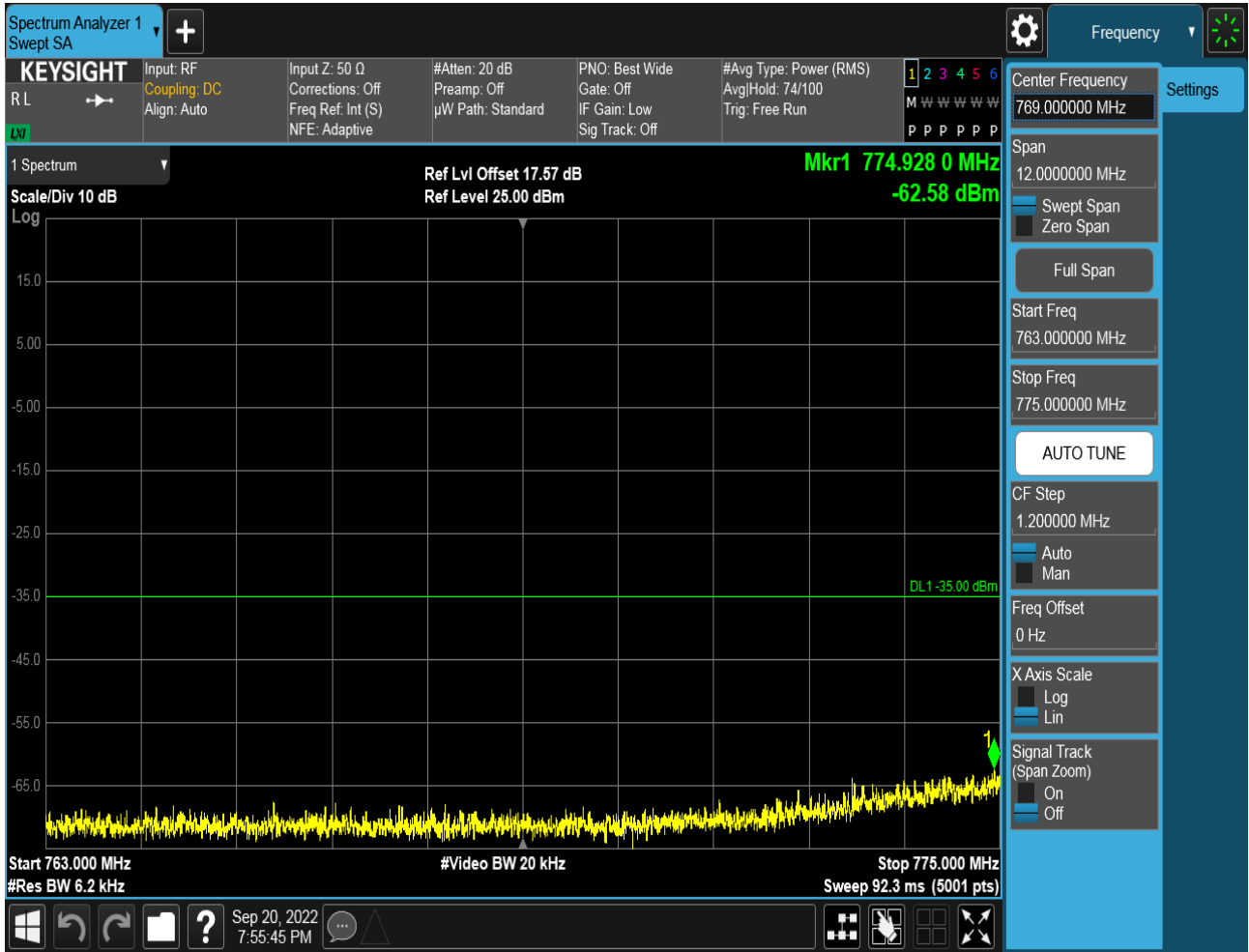
6.2.1.1.3.2 Test Channel = MCH

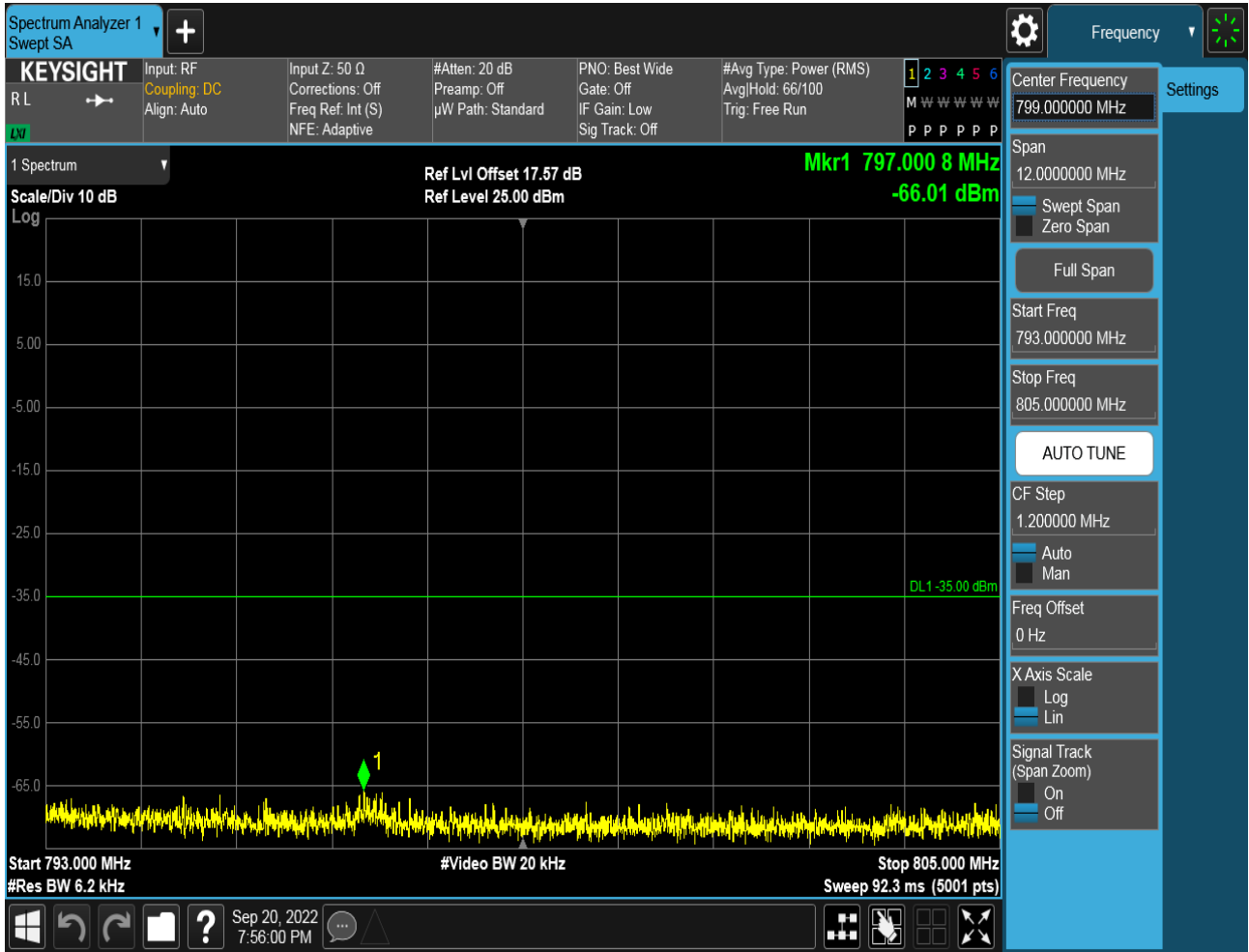
6.2.1.1.3.2.1 Test RB = RB1#0







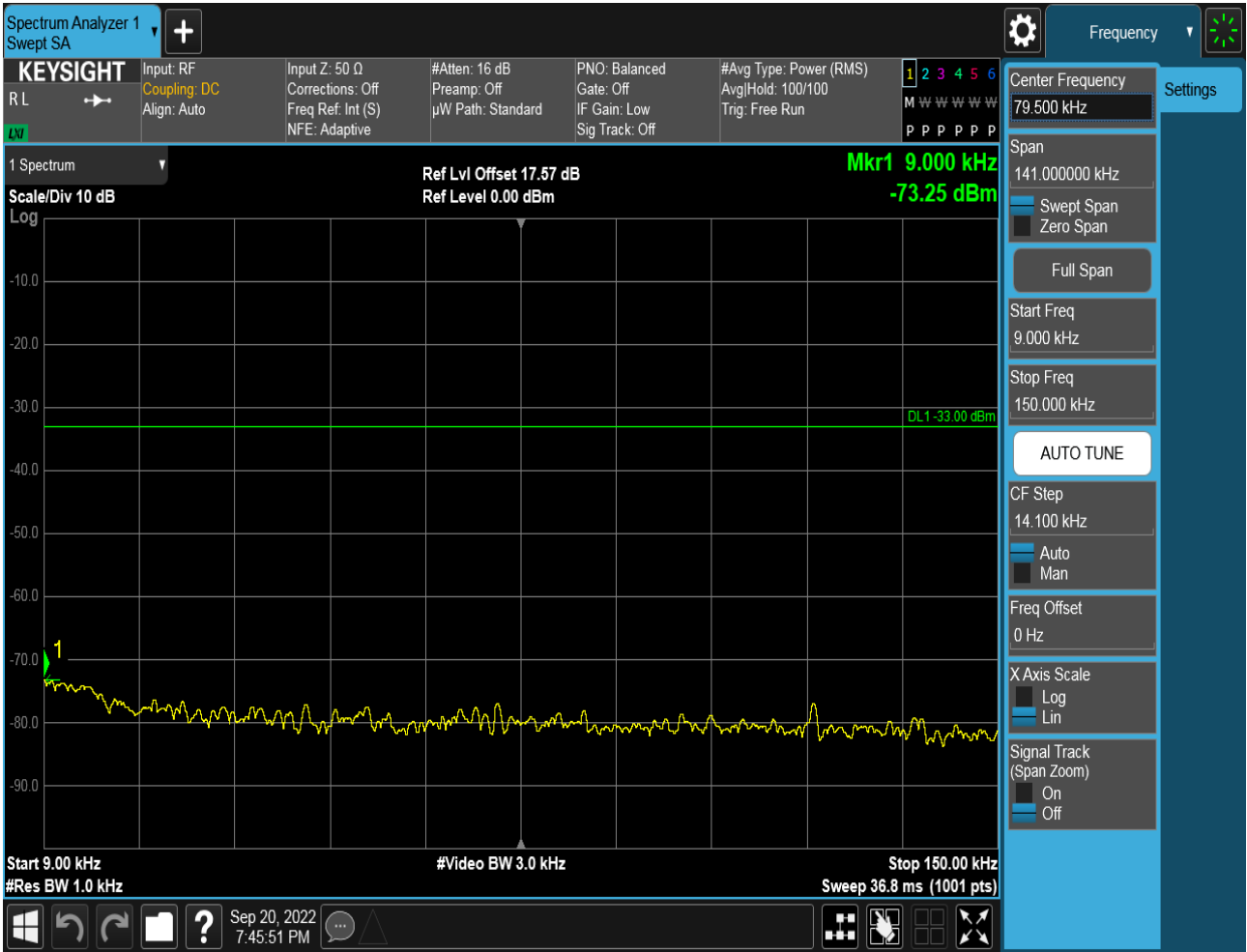


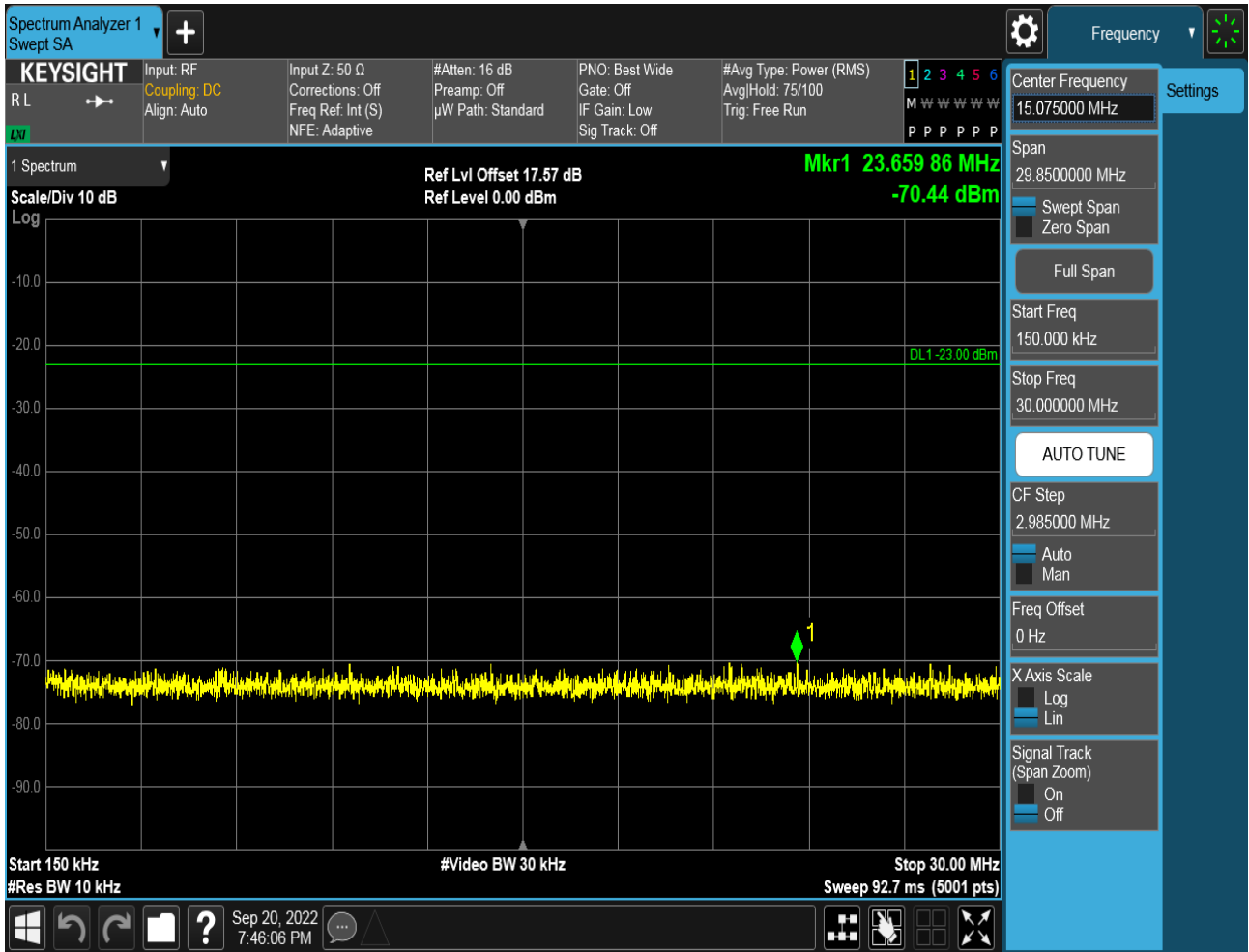


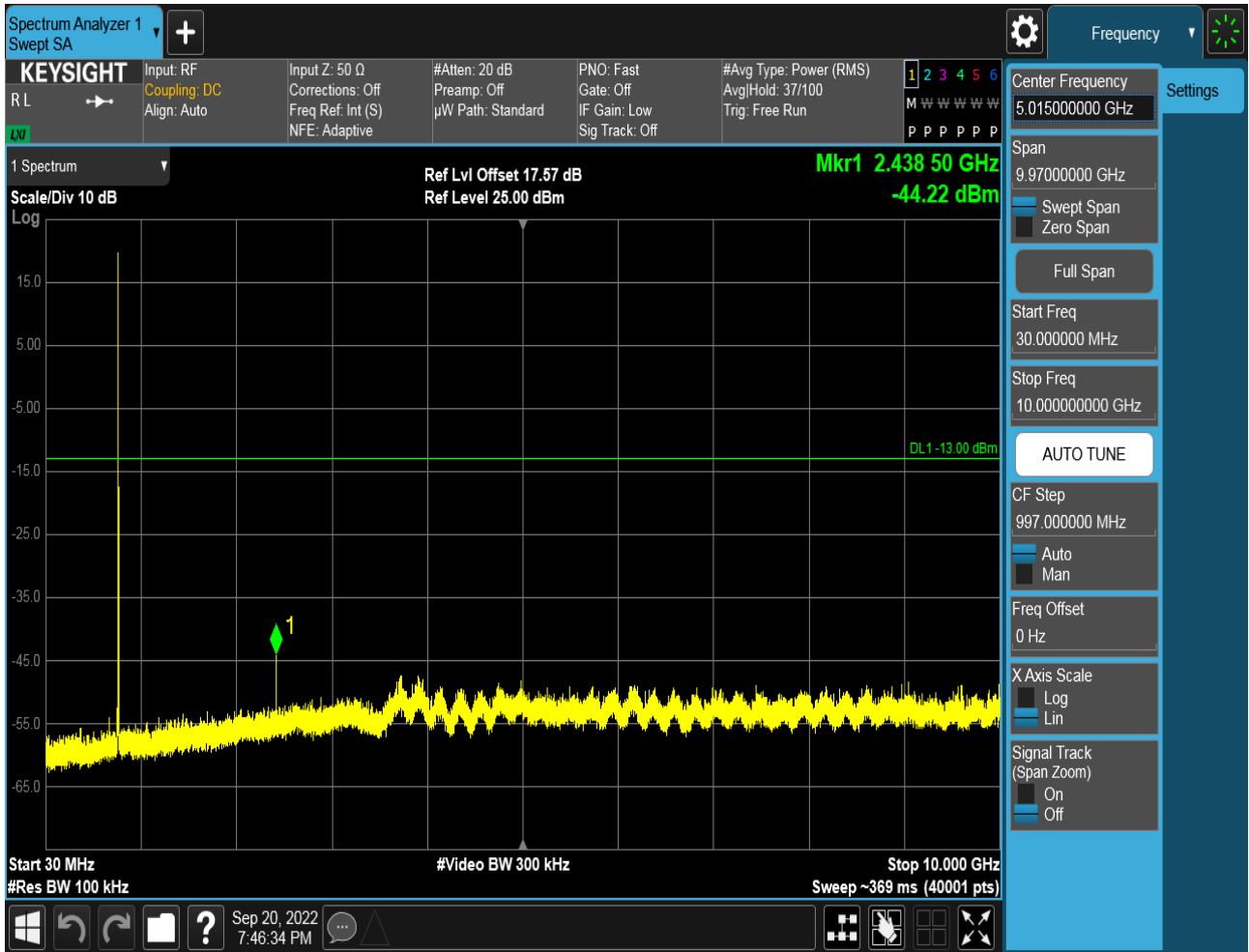


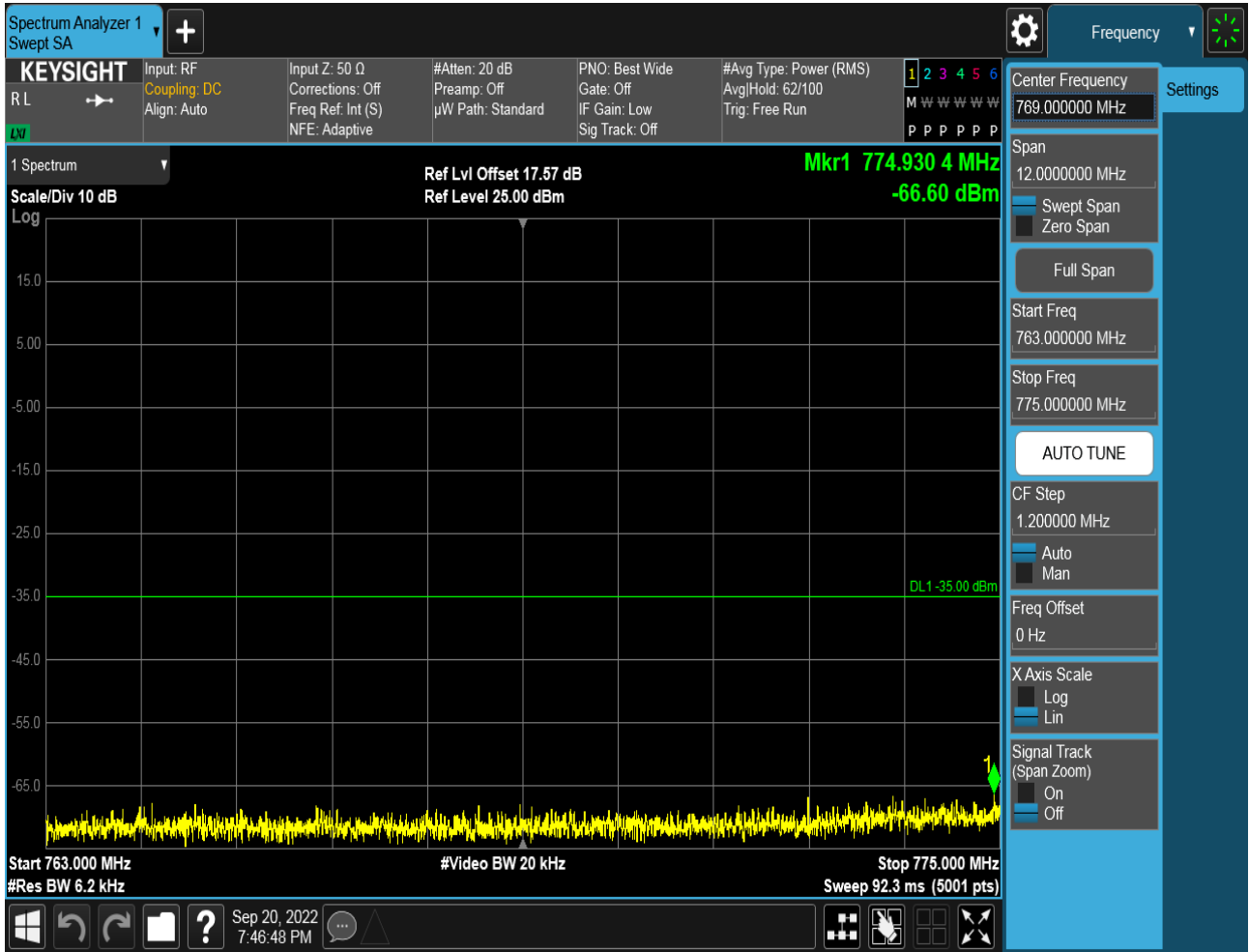
6.2.1.1.3.3 Test Channel = HCH

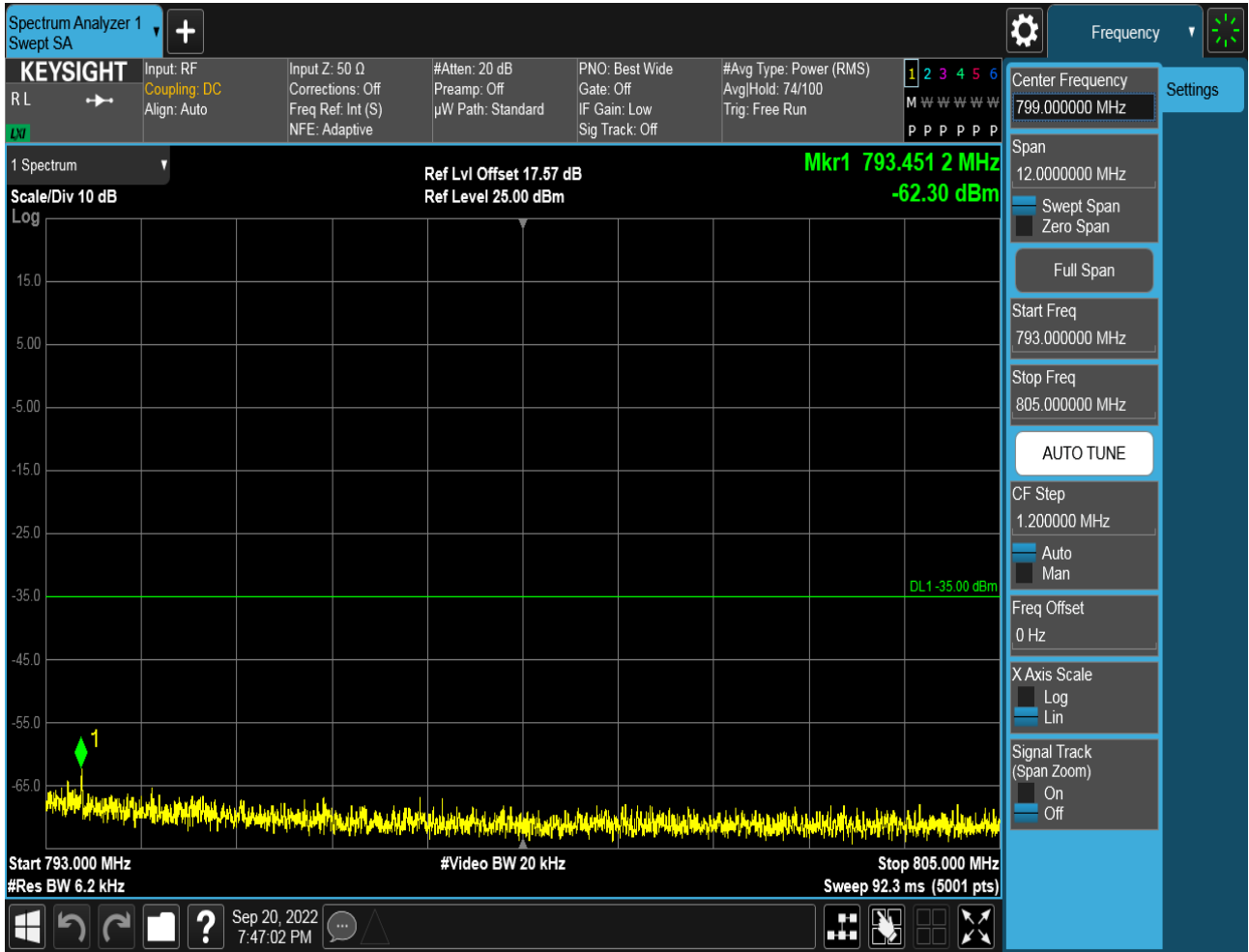
6.2.1.1.3.3.1 Test RB = RB1#0









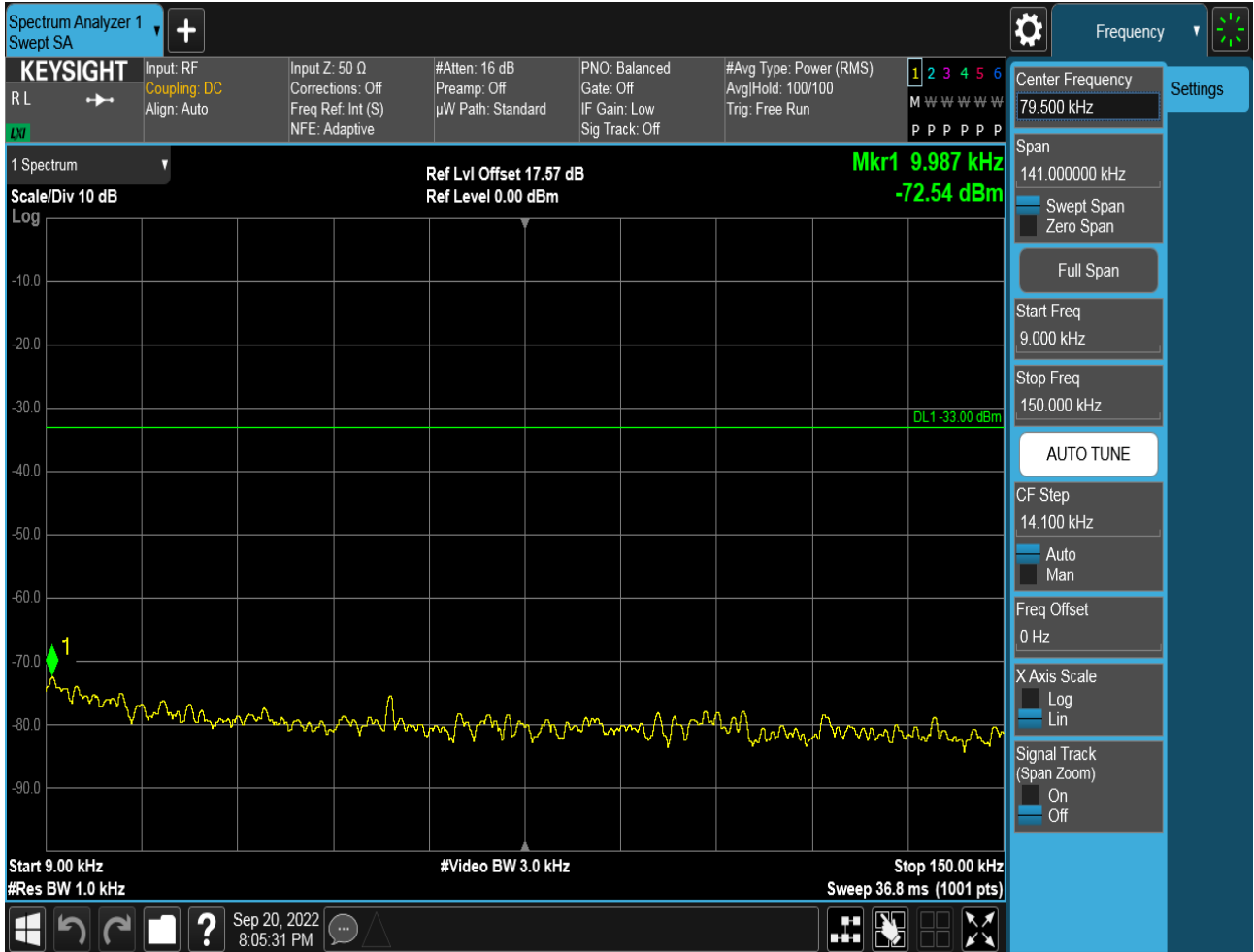


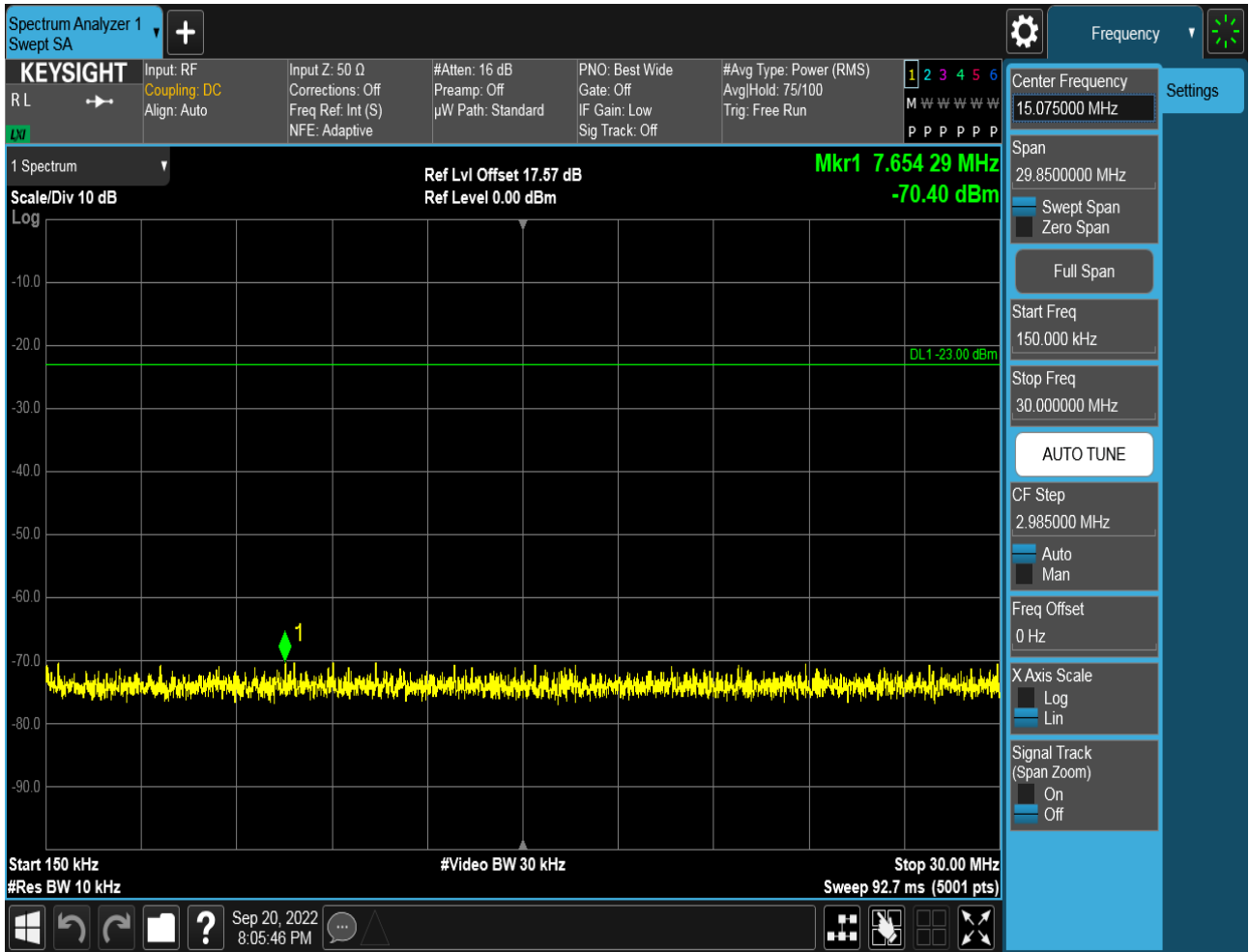


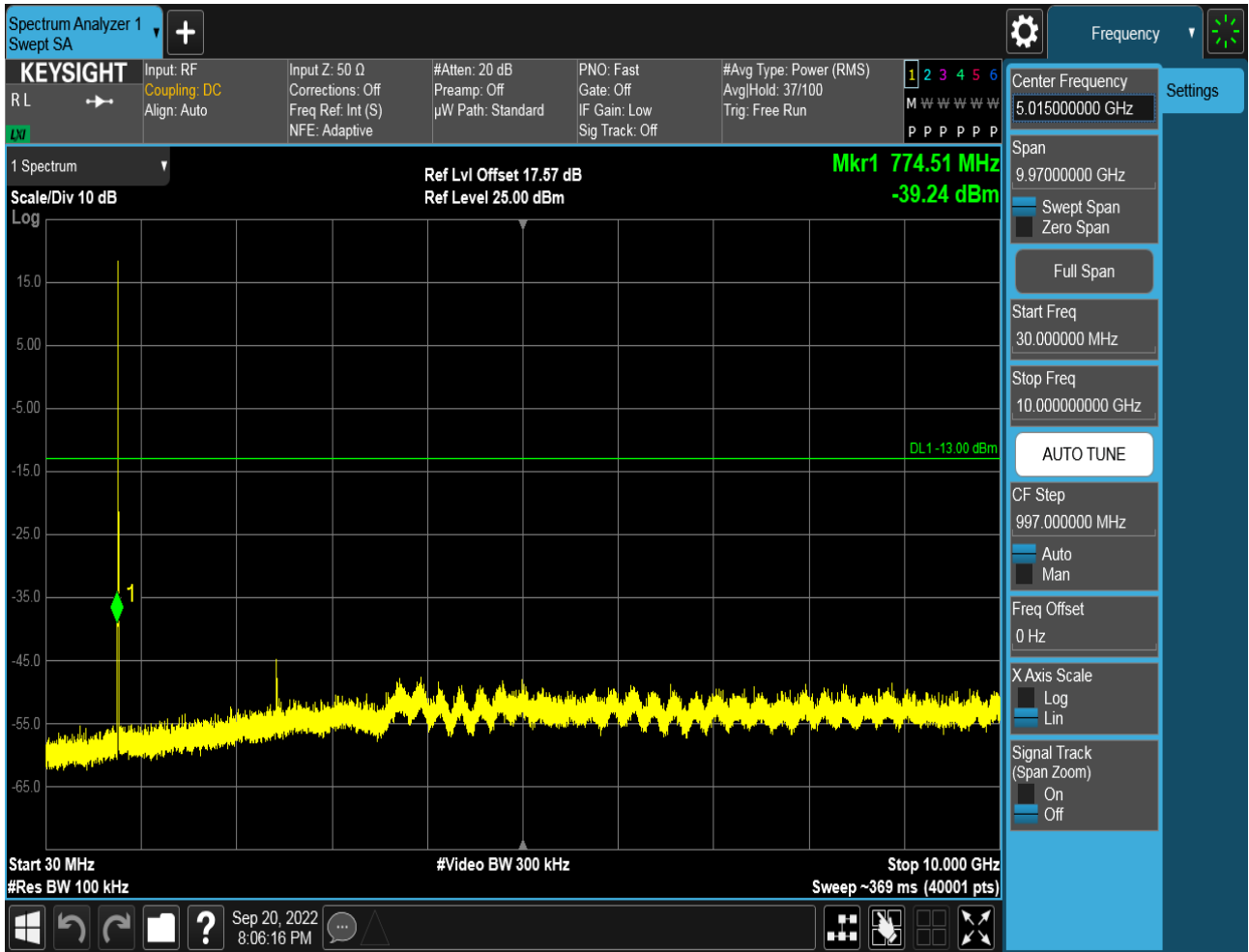
6.2.1.1.4 Test Bandwidth = 10MHz

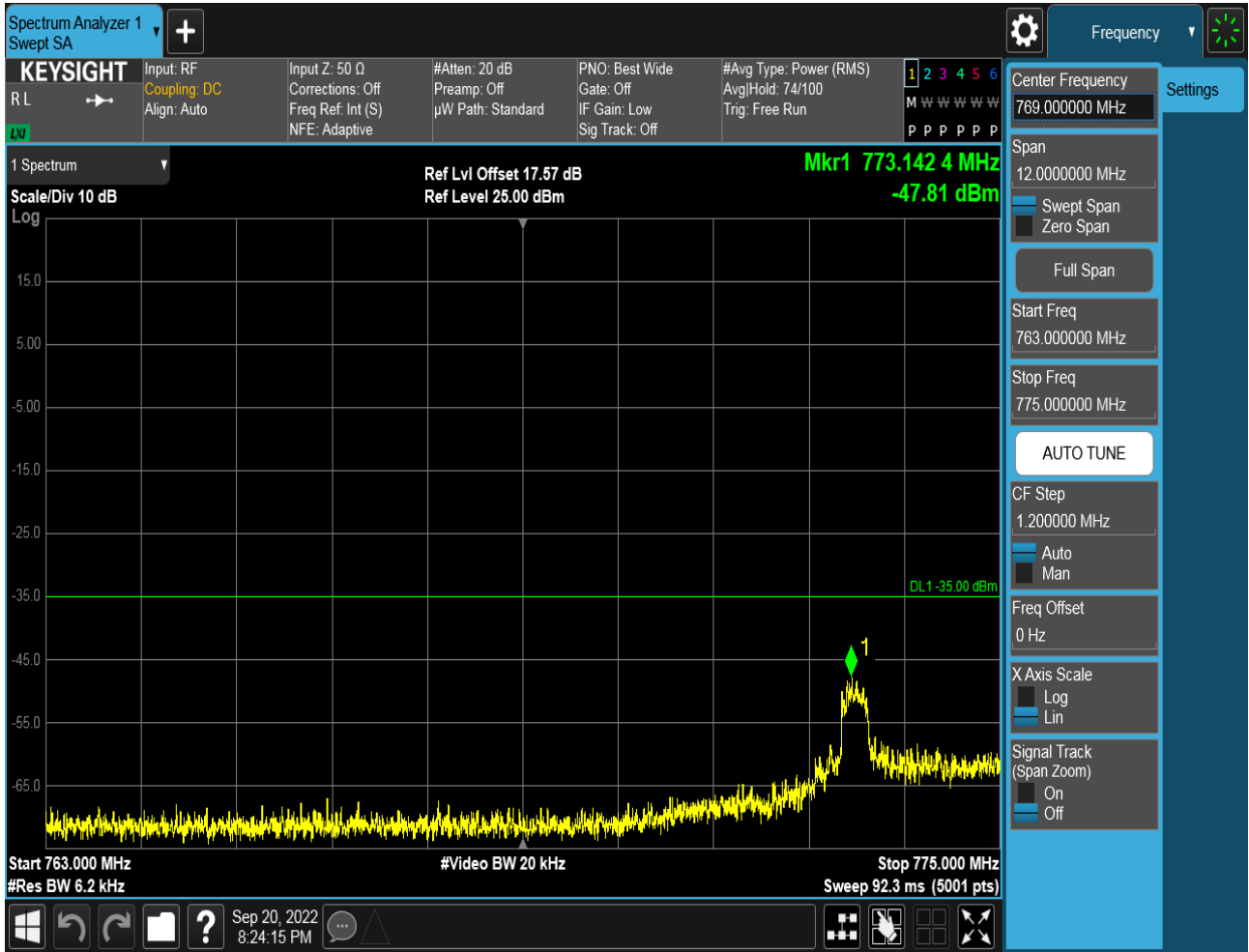
6.2.1.1.4.2 Test Channel = MCH

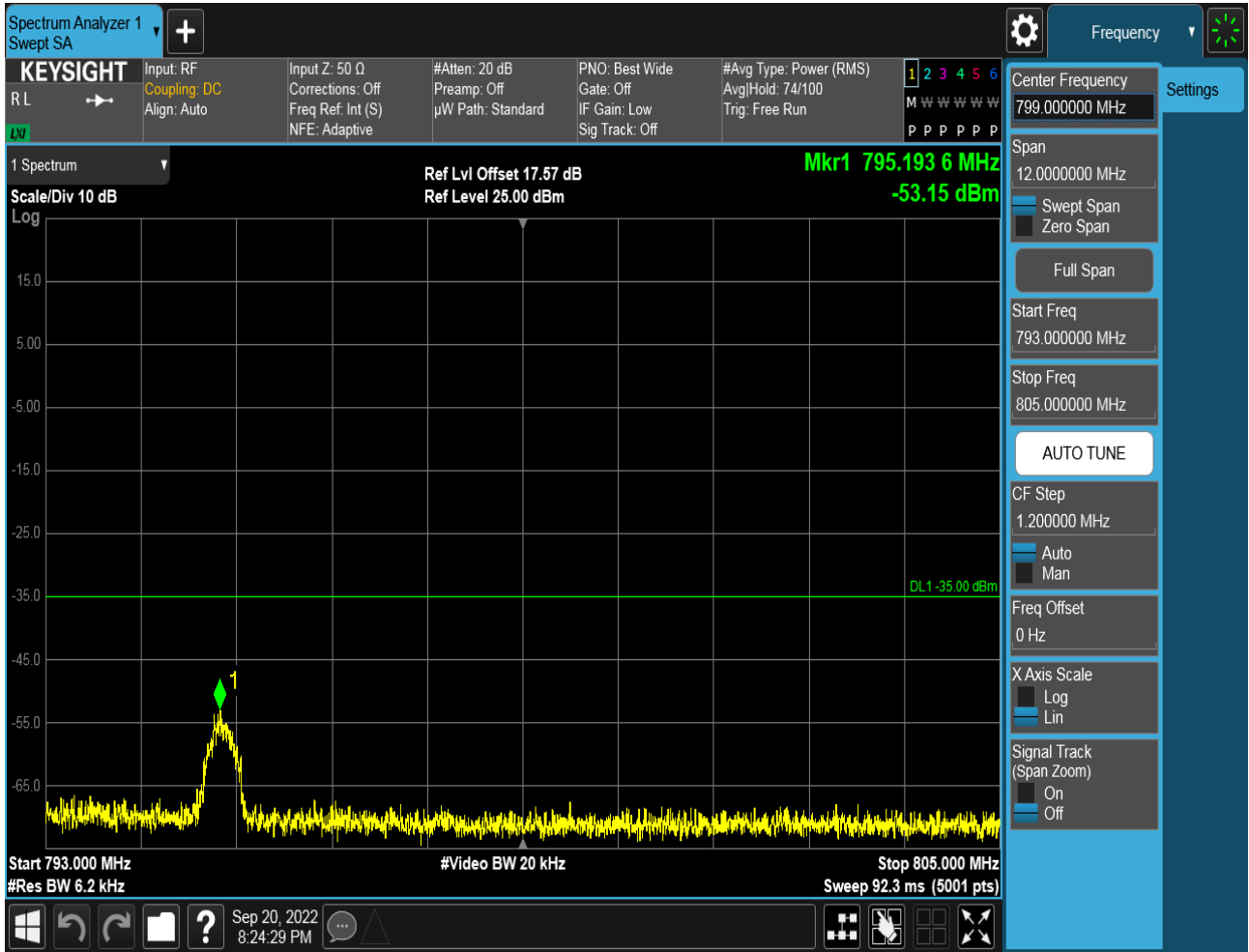
6.2.1.1.4.2.1 Test RB = RB1#0











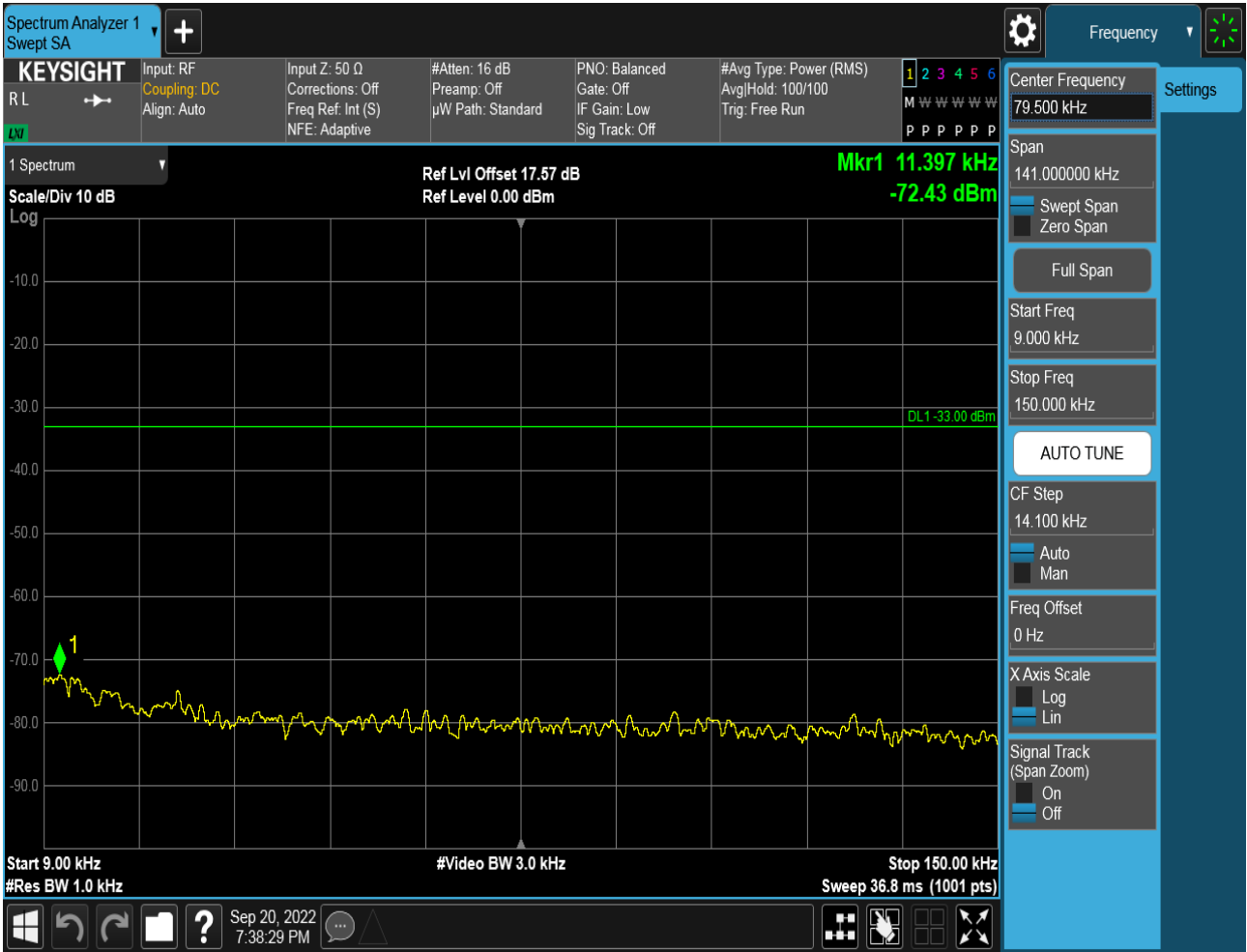


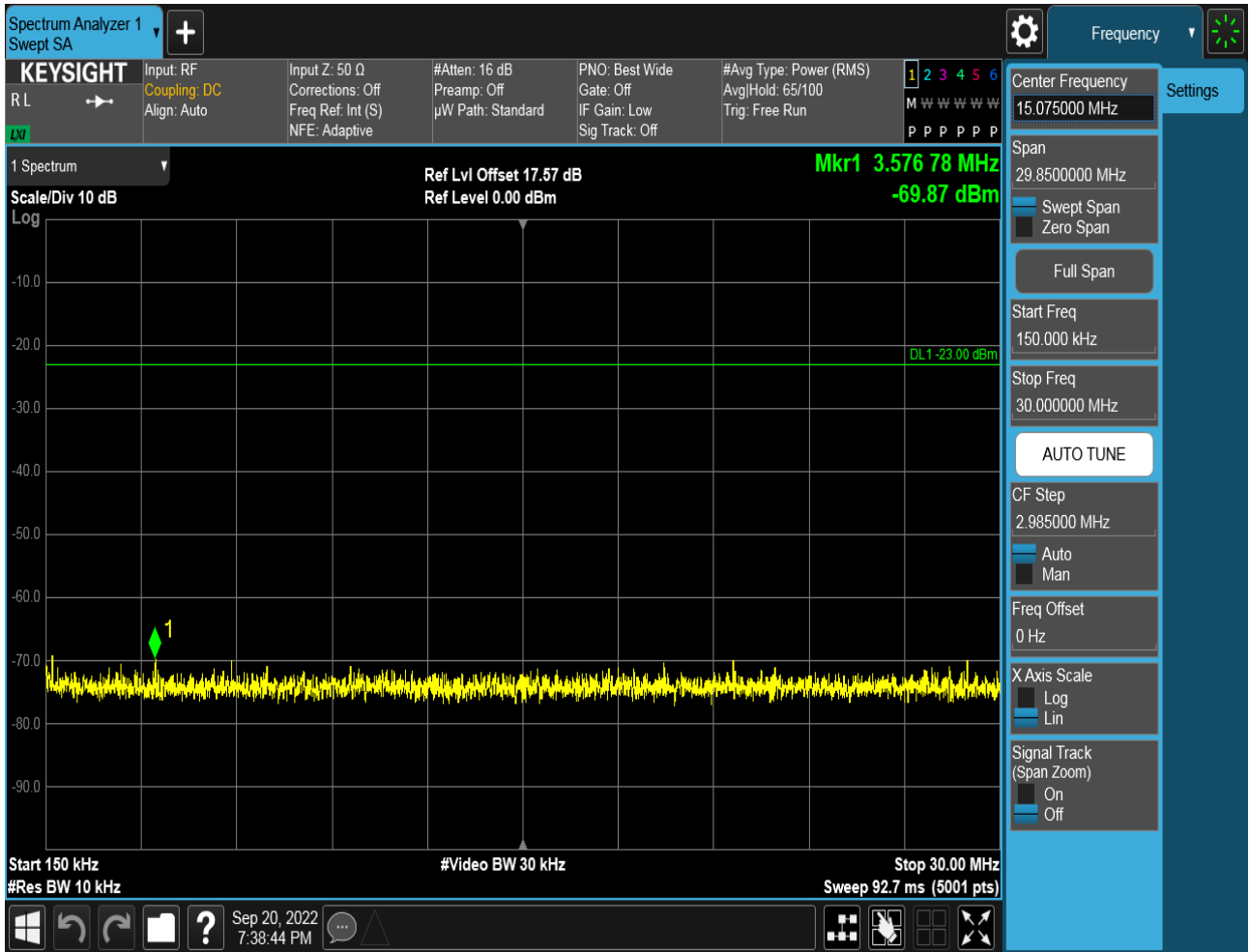
6.2.1.2 Test Mode = LTE/TM2

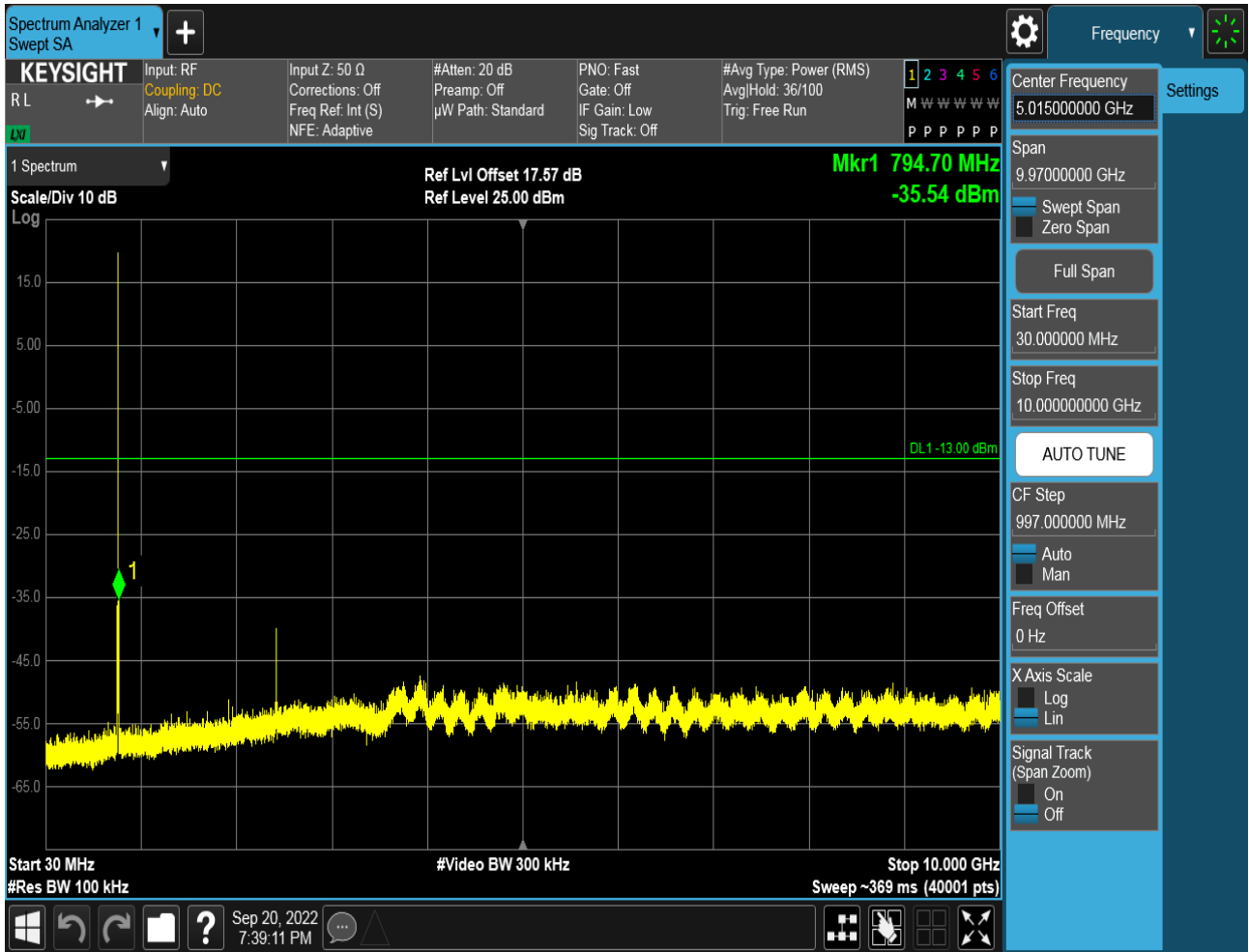
6.2.1.2.3 Test Bandwidth = 5MHz

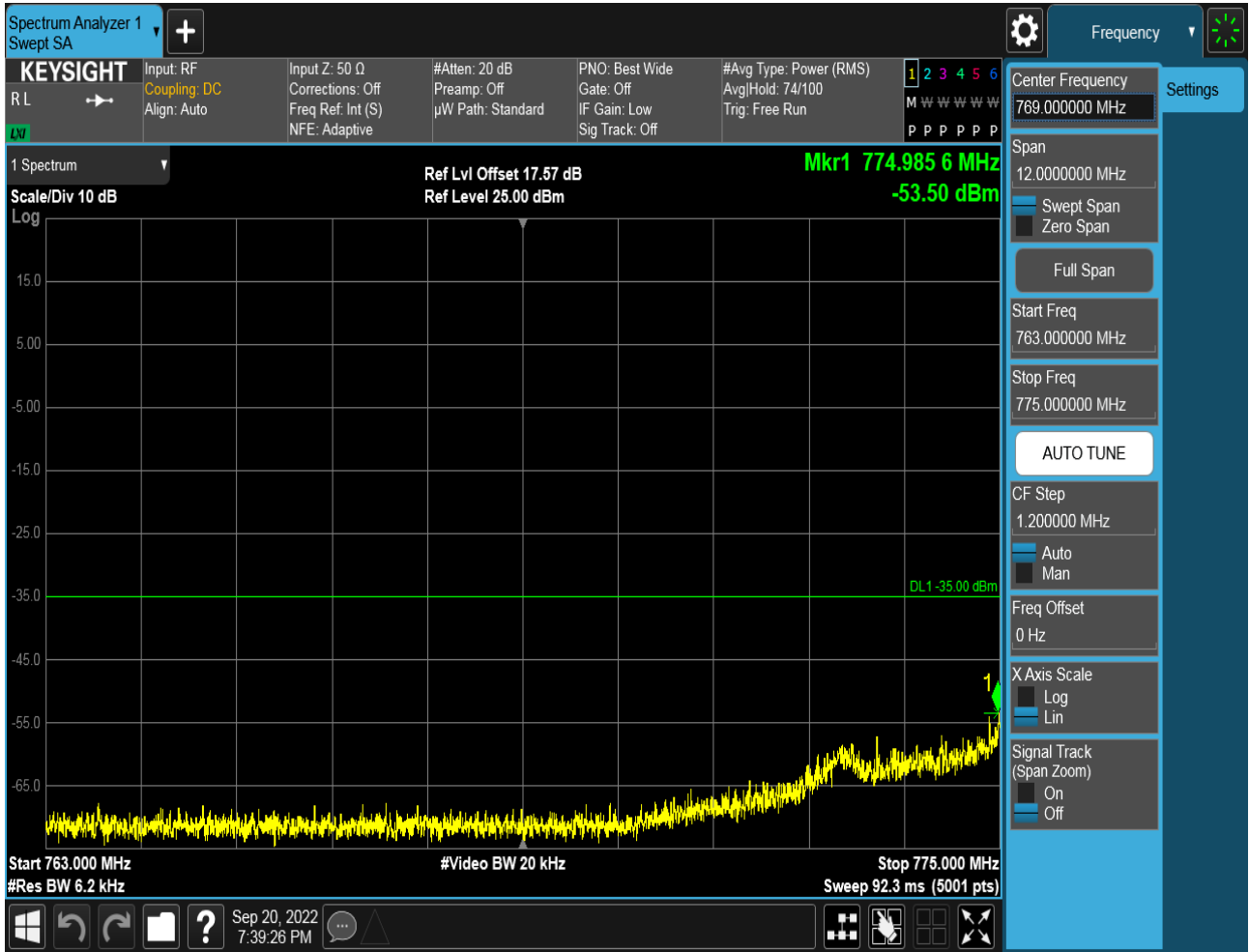
6.2.1.2.3.1 Test Channel = LCH

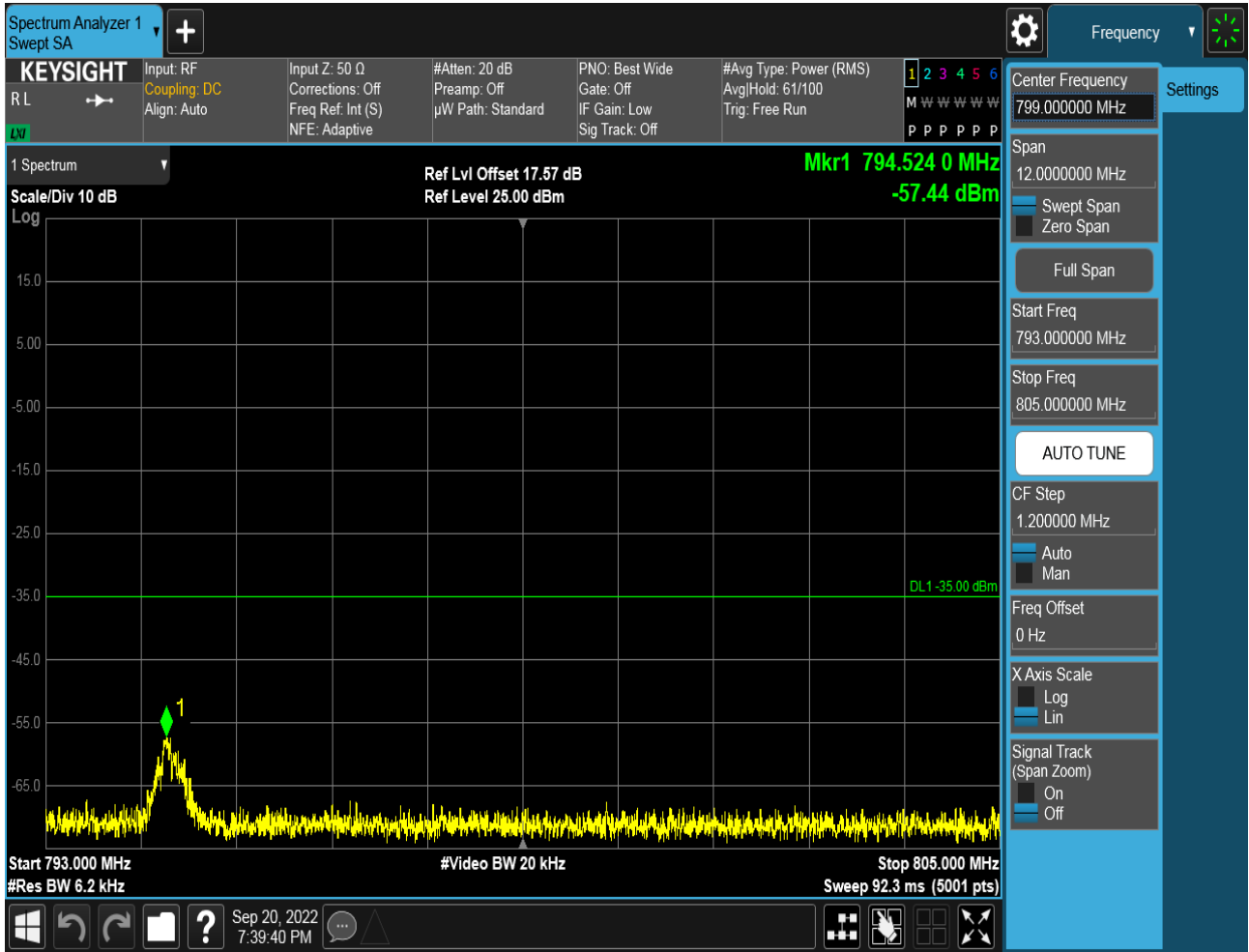
6.2.1.2.3.1.1 Test RB = RB1#0







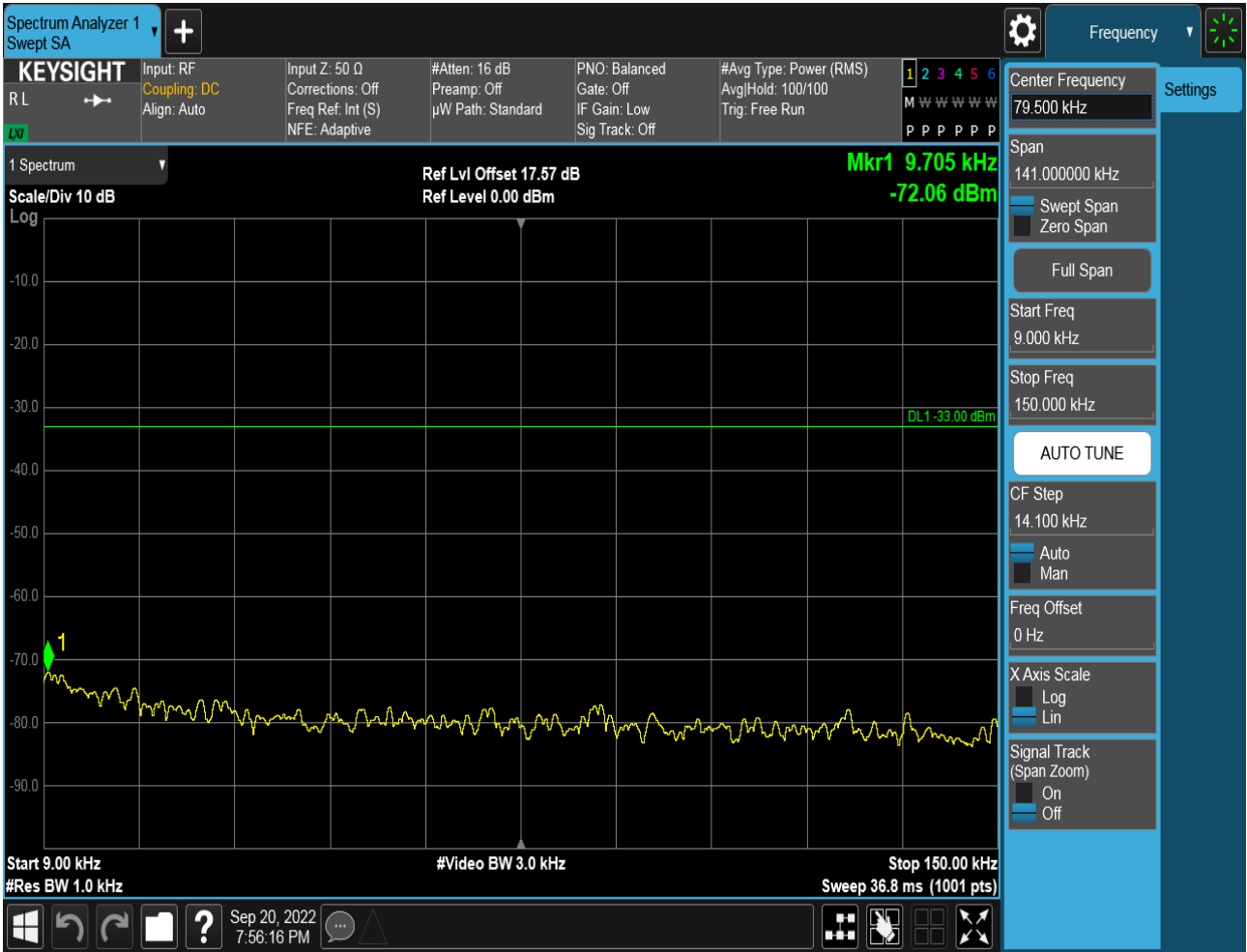


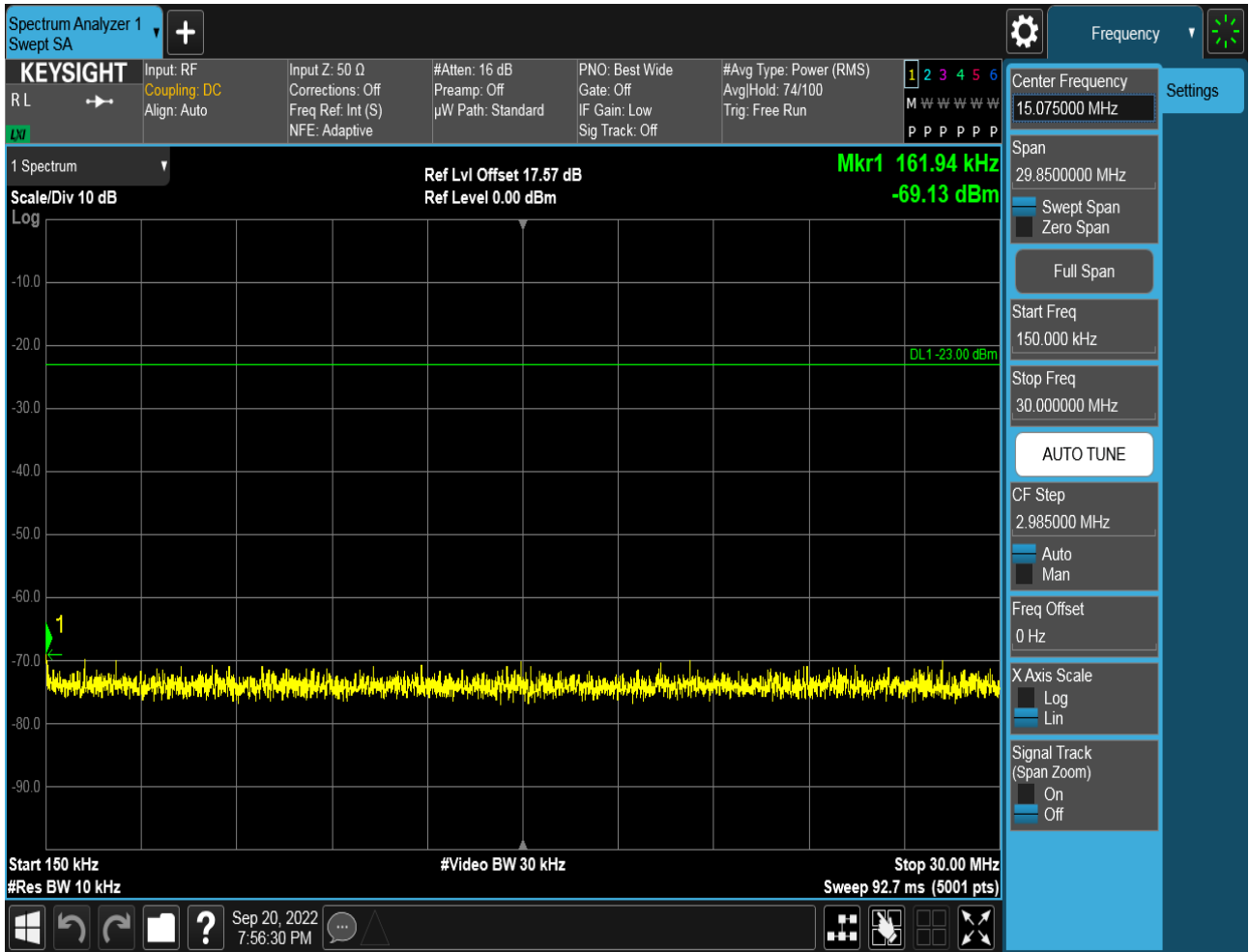


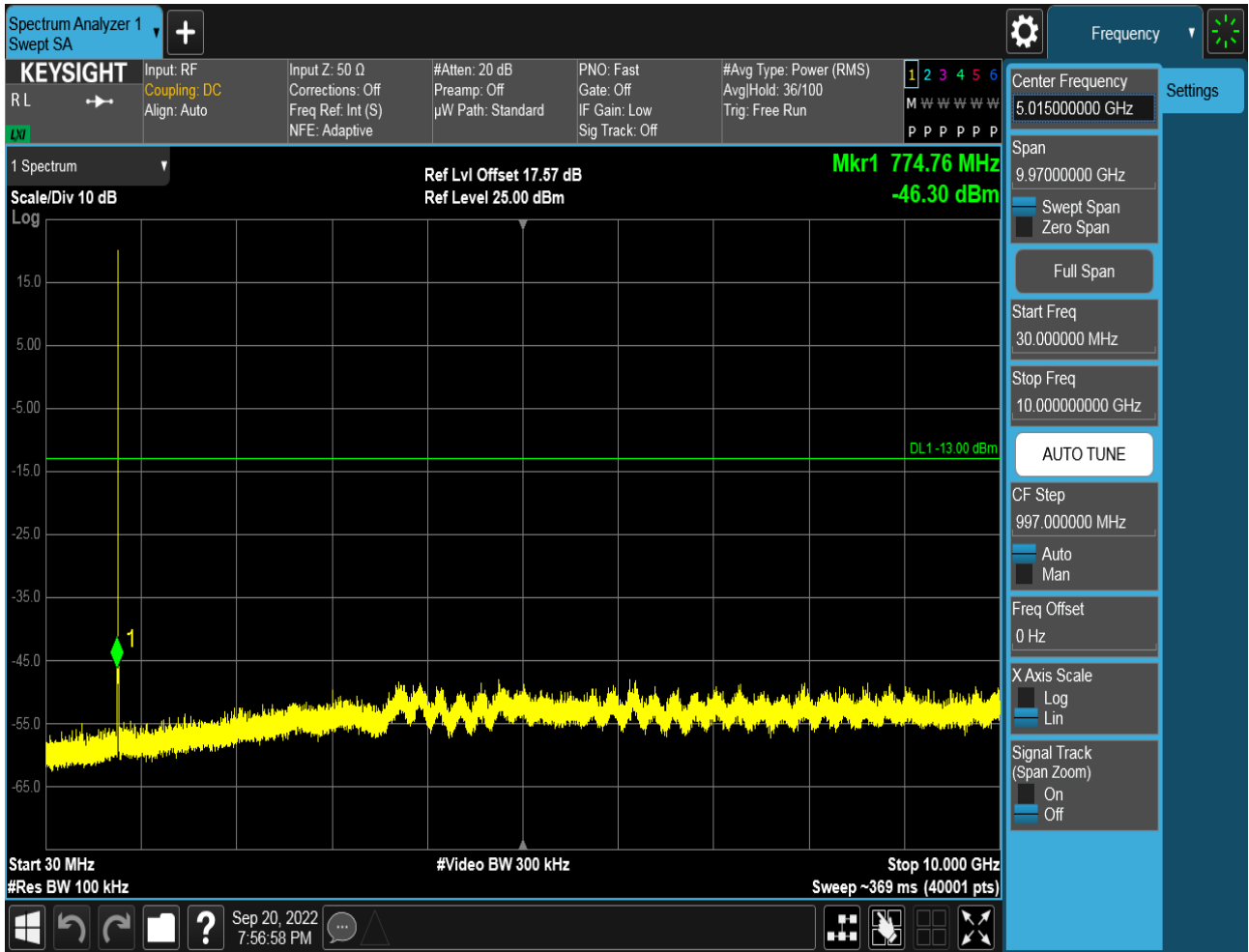


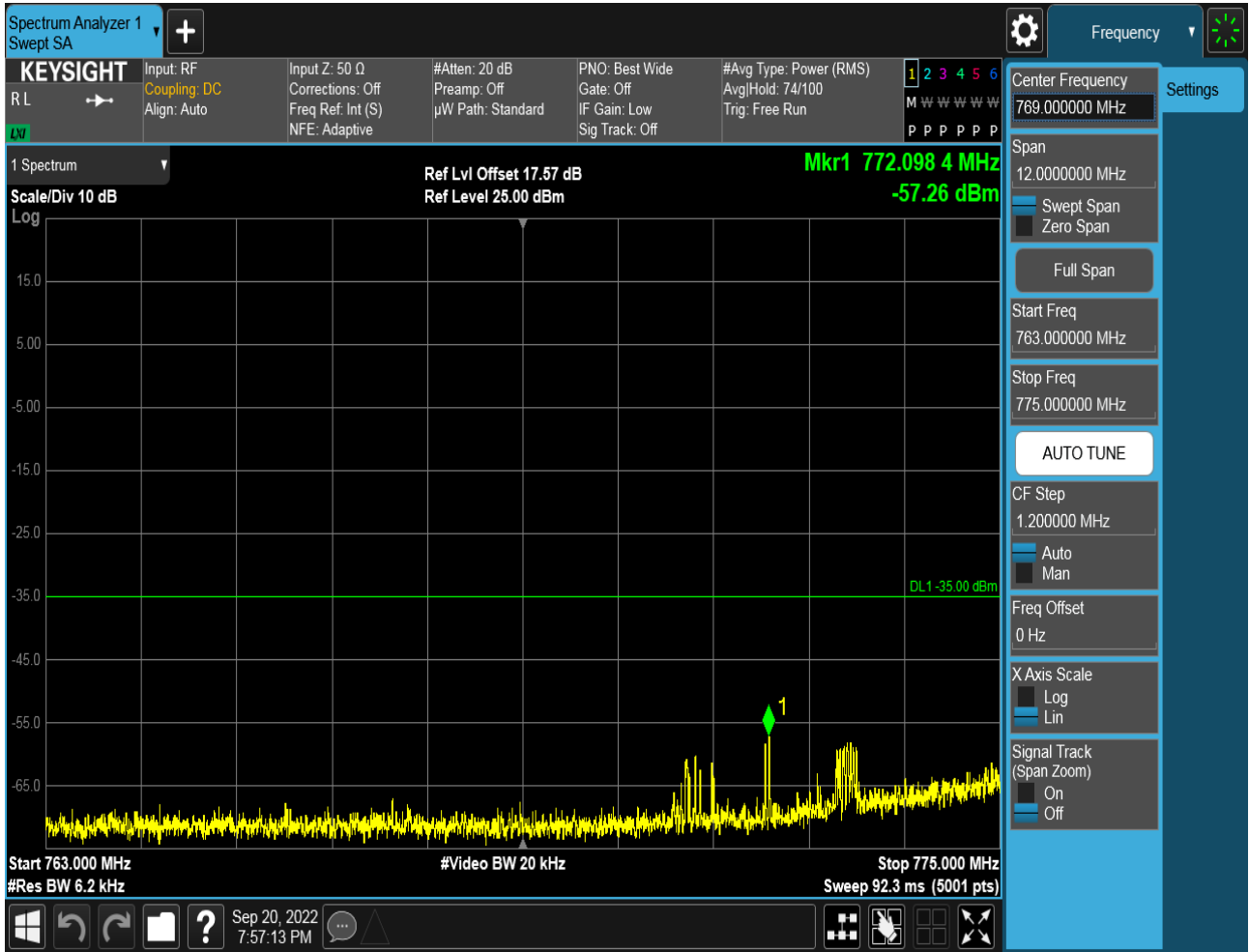
6.2.1.2.3.2 Test Channel = MCH

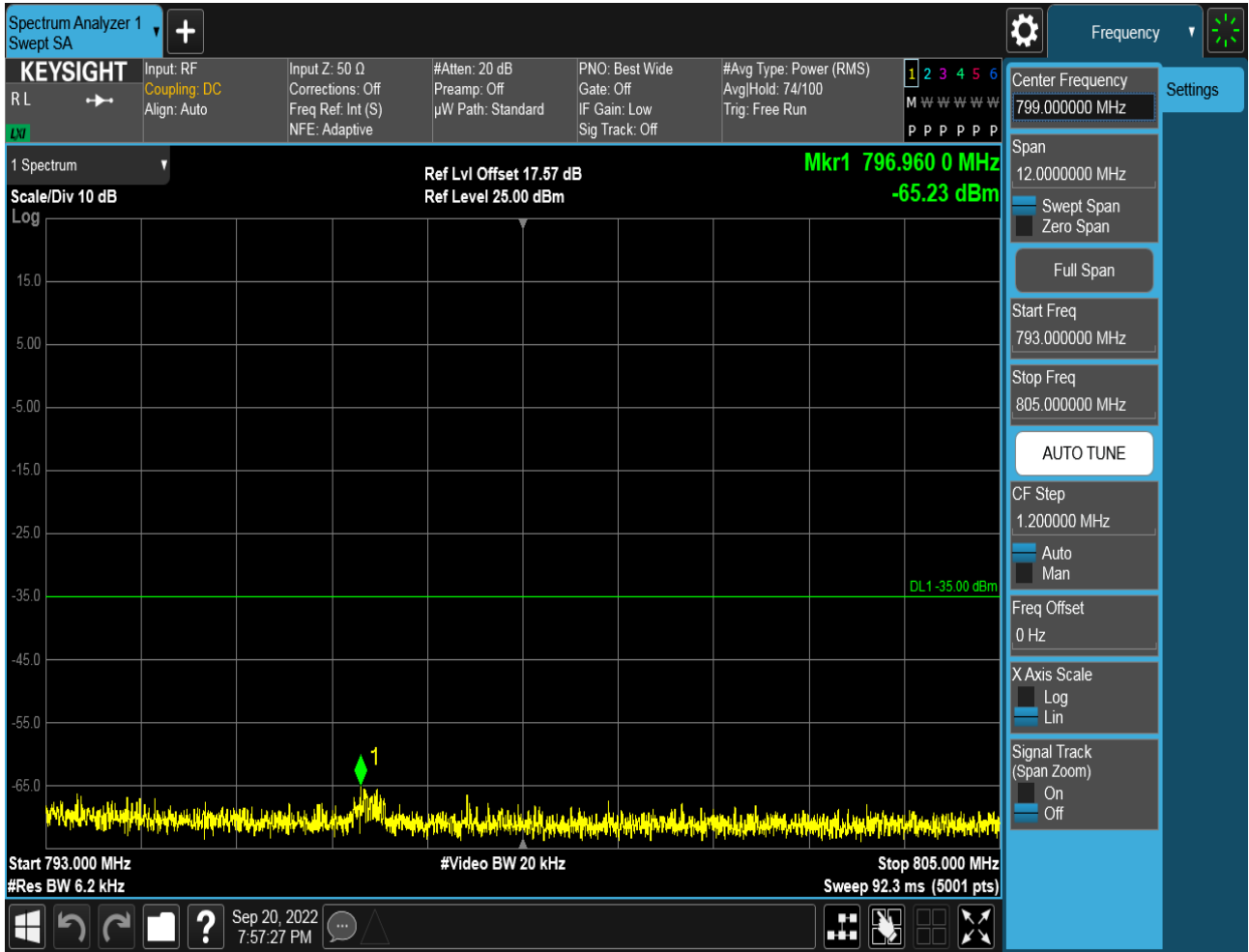
6.2.1.2.3.2.1 Test RB = RB1#0







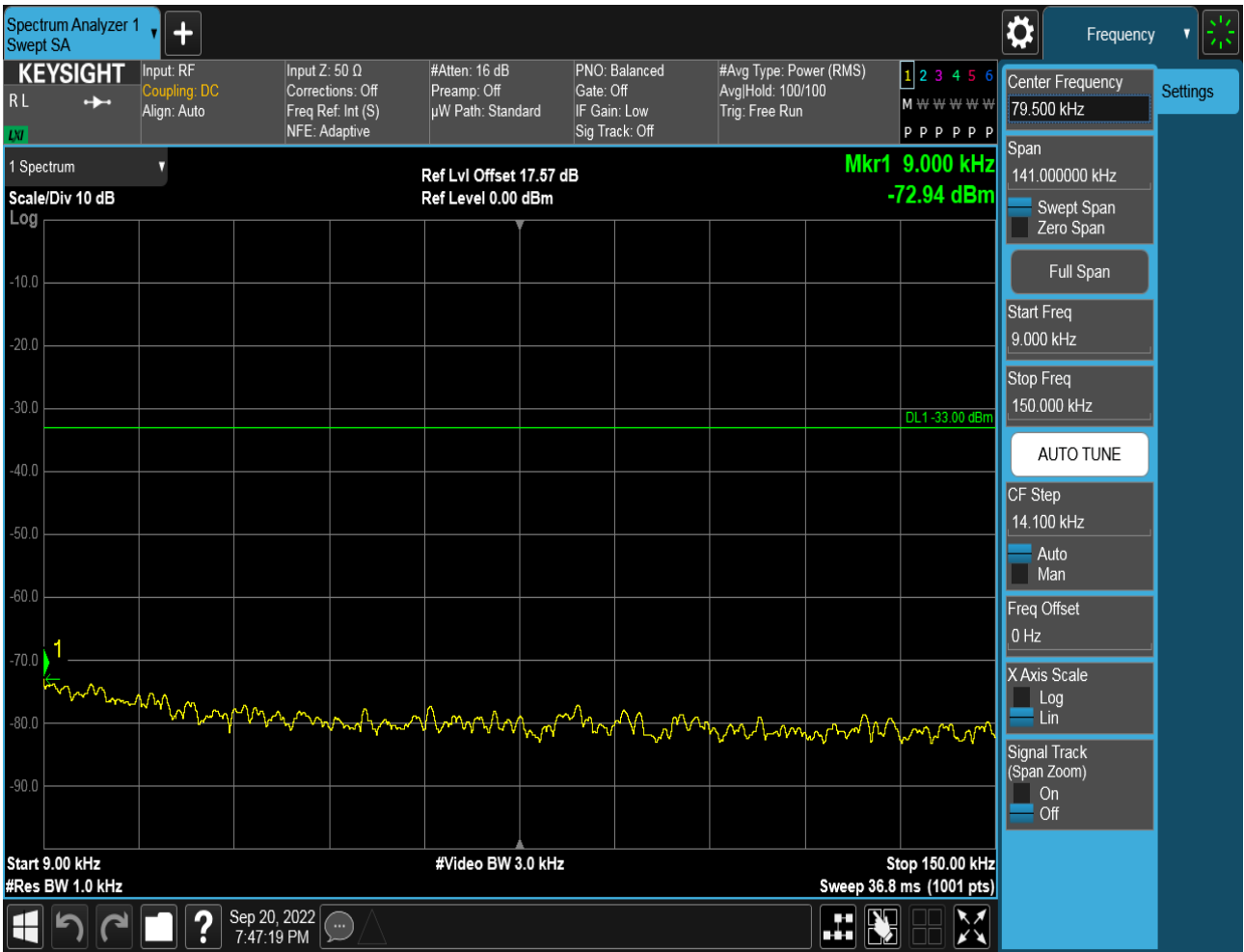


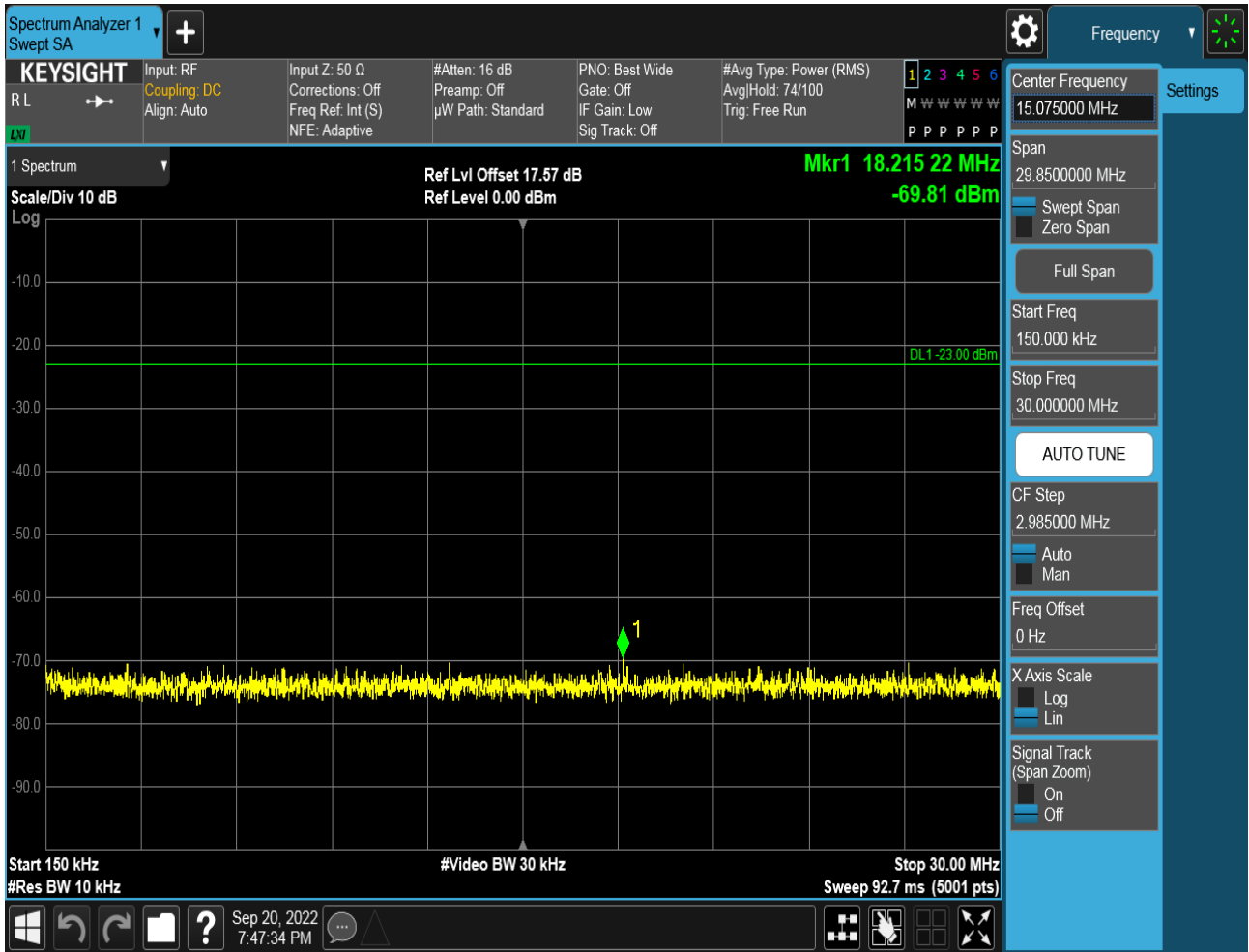


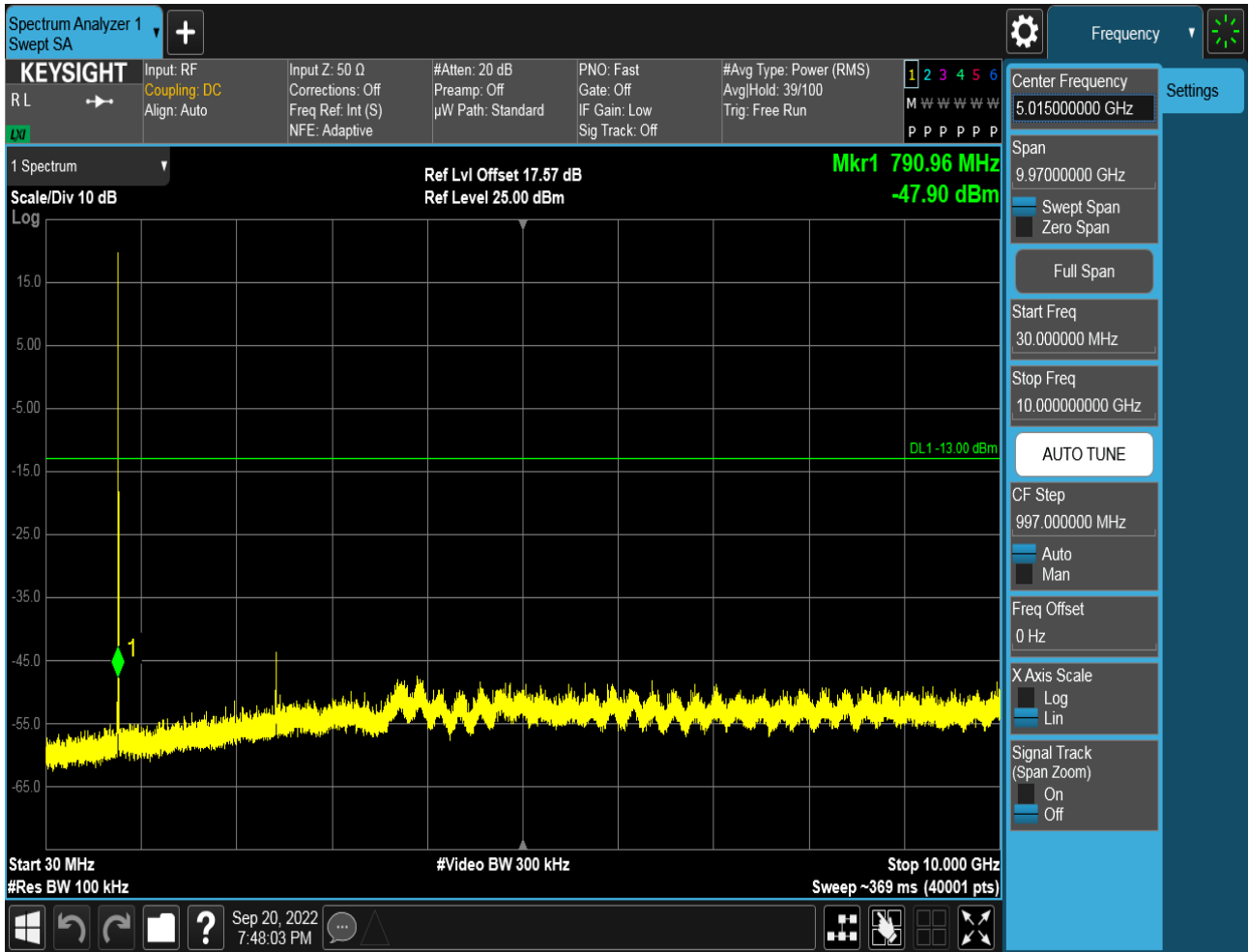


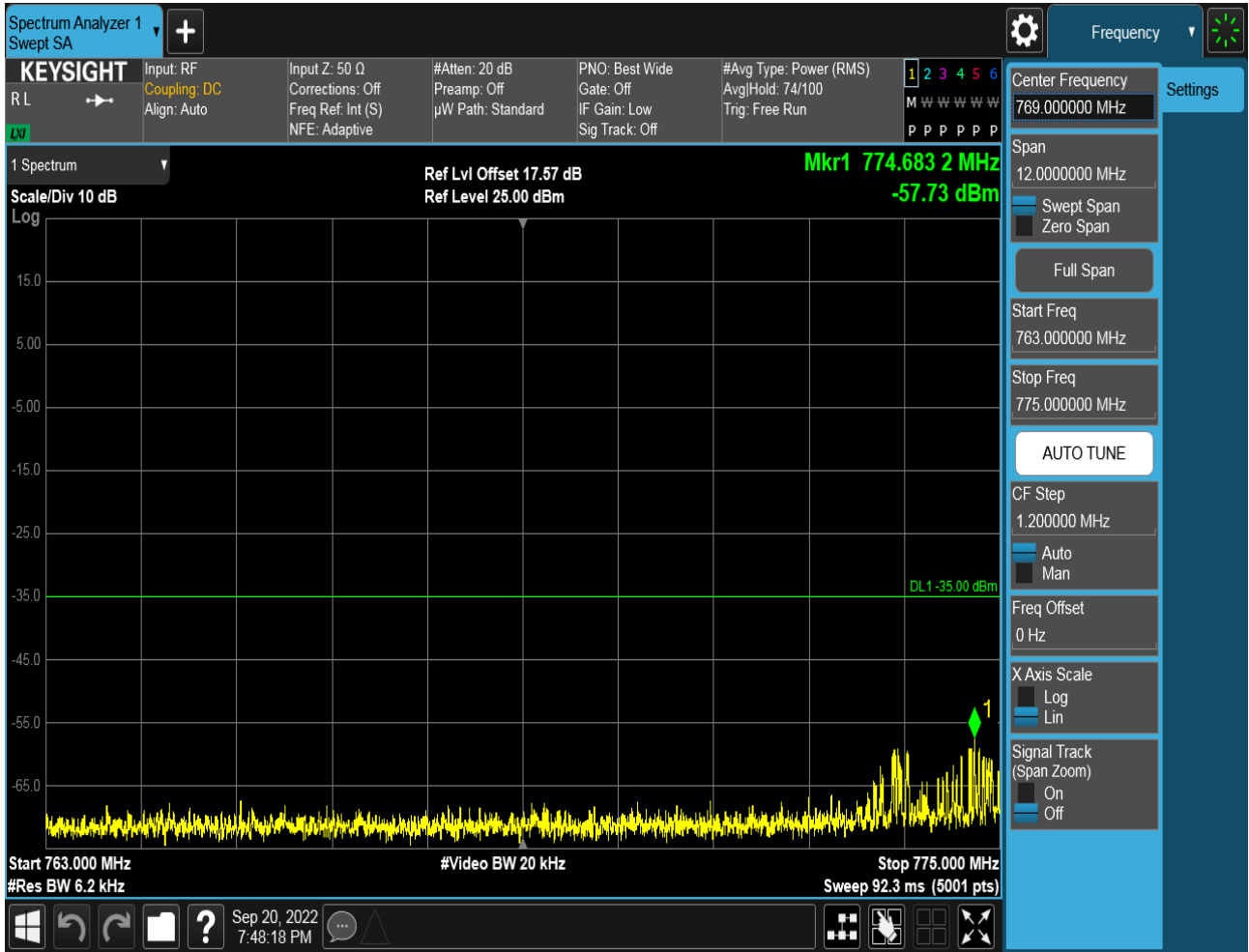
6.2.1.2.3.3 Test Channel = HCH

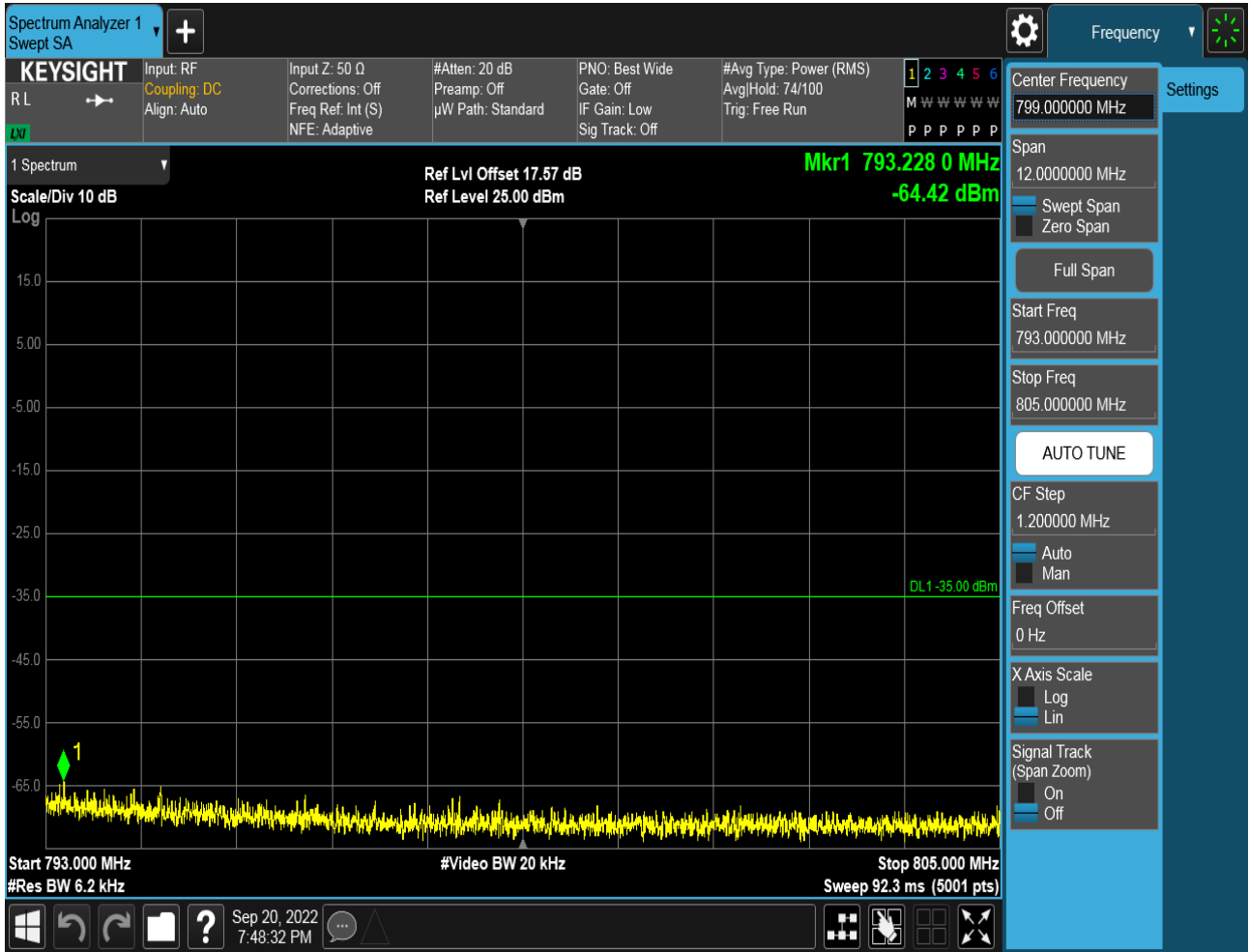
6.2.1.2.3.3.1 Test RB = RB1#0









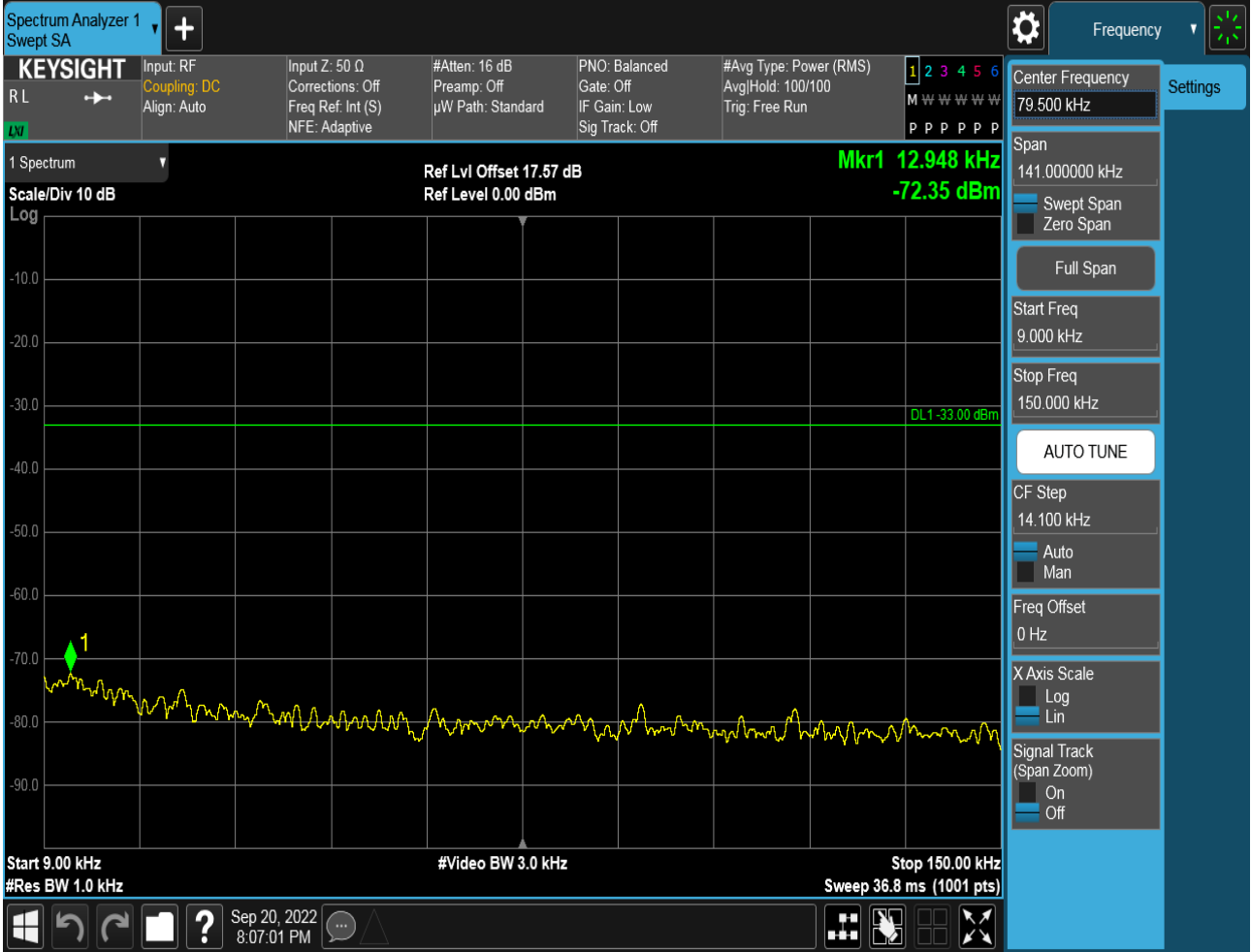


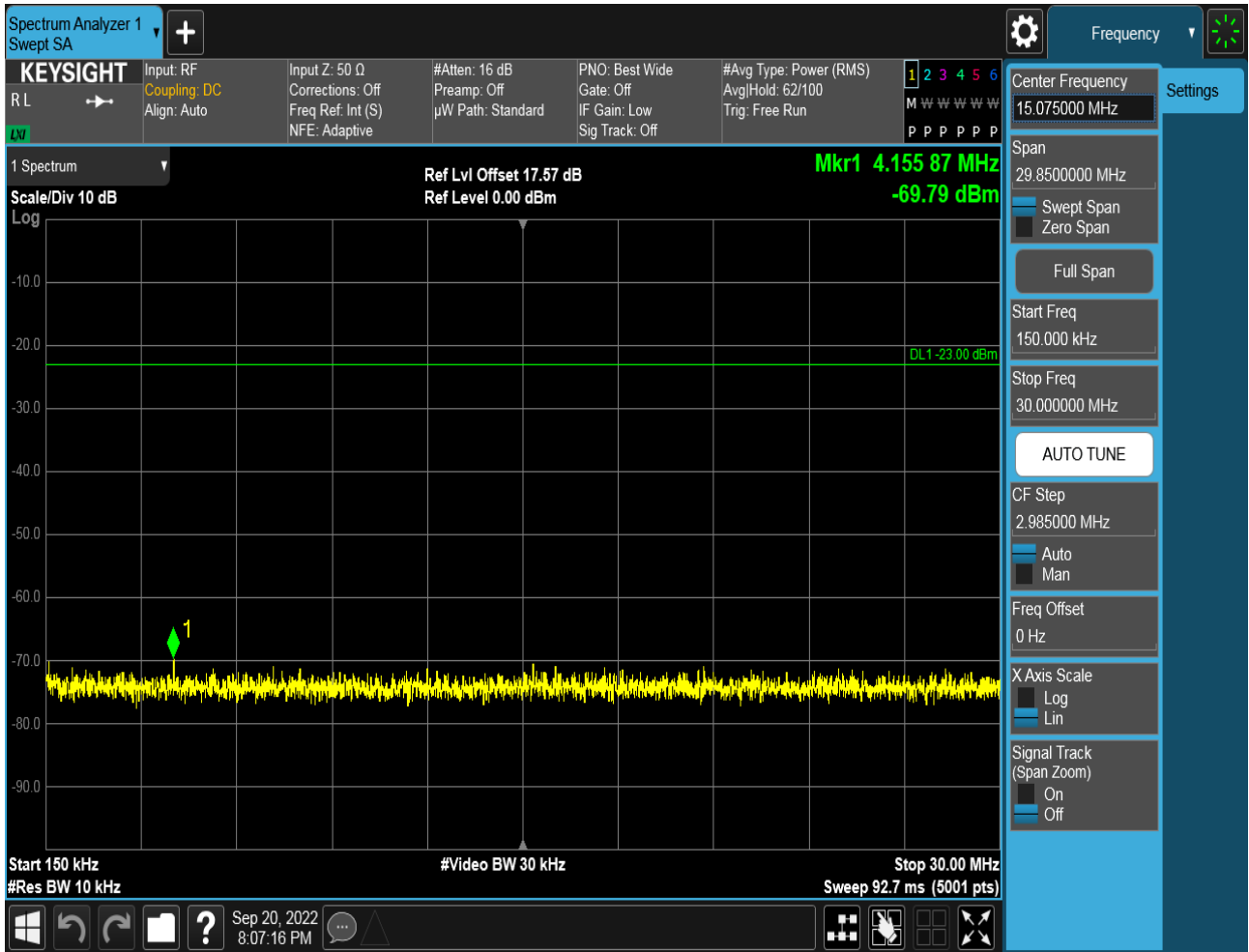


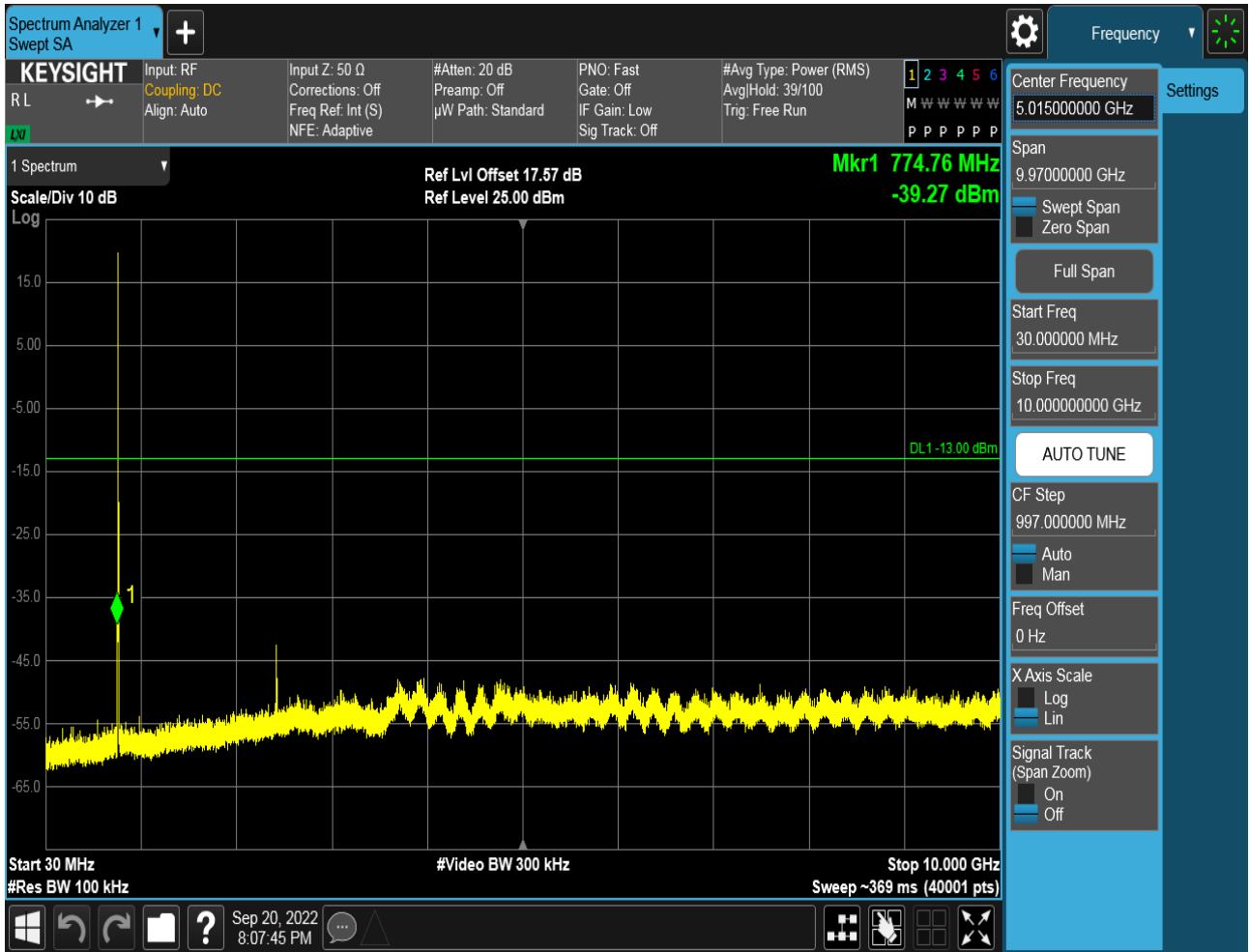
6.2.1.2.4 Test Bandwidth = 10MHz

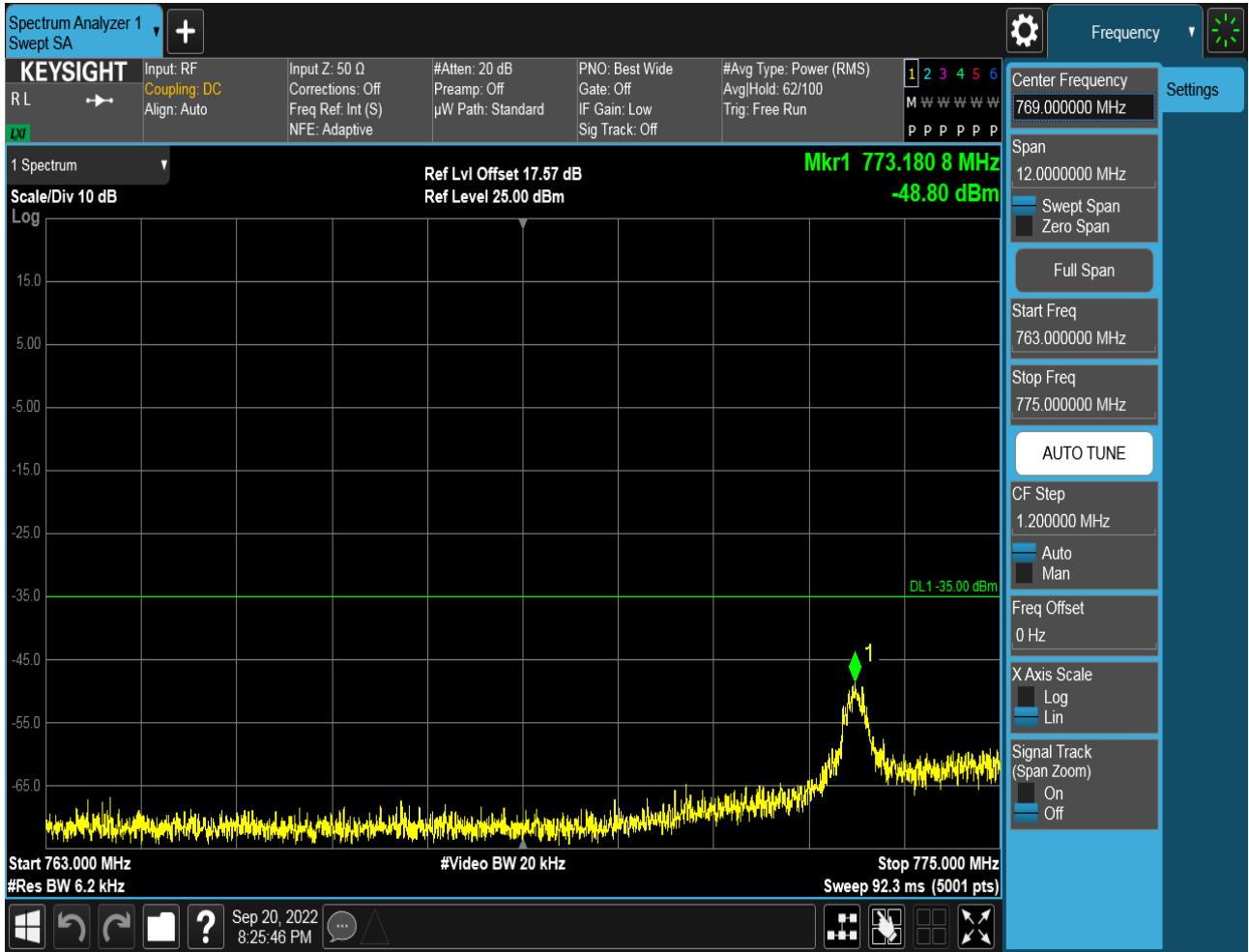
6.2.1.2.4.2 Test Channel = MCH

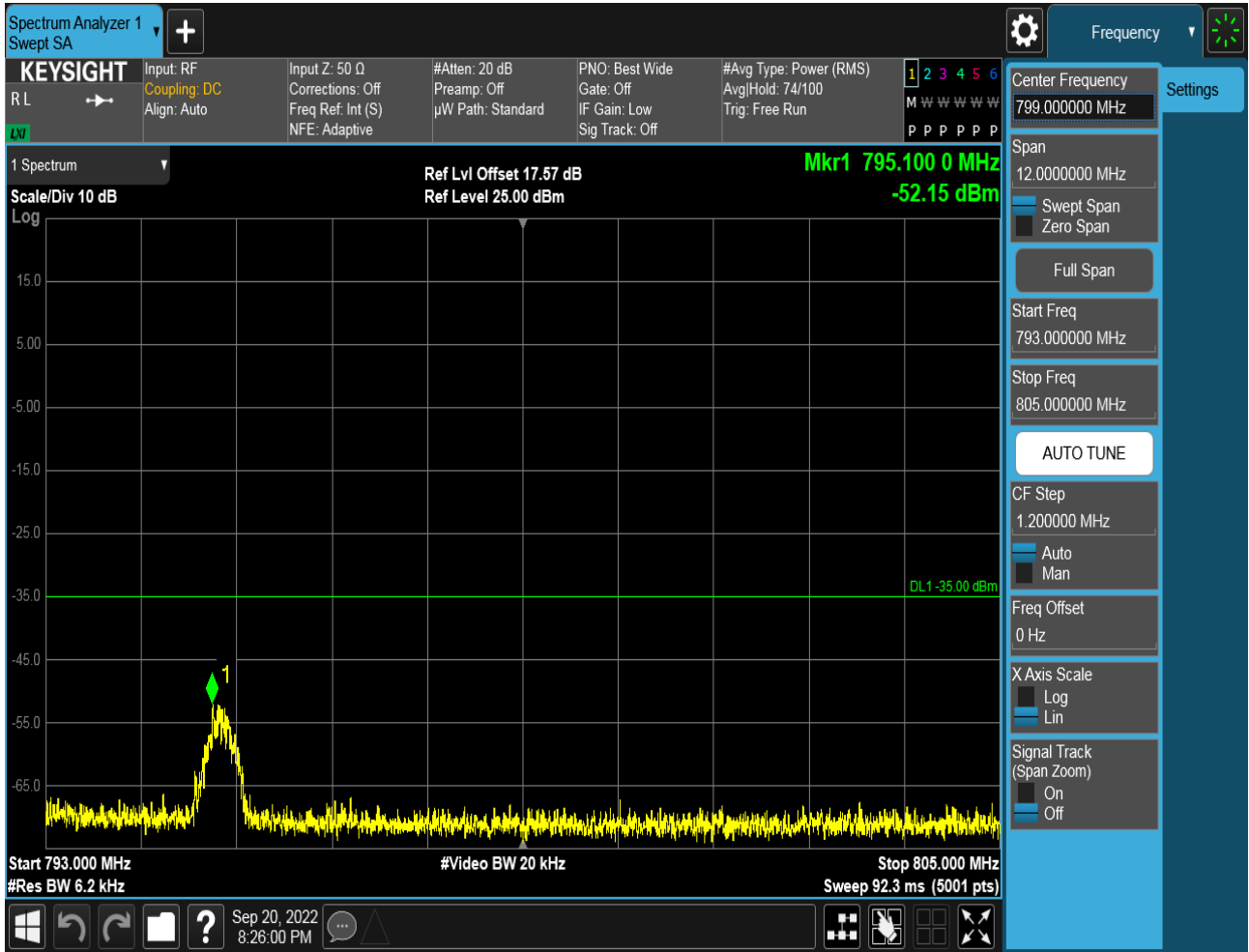
6.2.1.2.4.2.1 Test RB = RB1#0











7Appendix_G: Field Strength of Spurious Radiation

Note 1: We tested all modes & antennas, the data presented below is the worst case.

Note 2: For Below 30MHz, the data presented below is the worst case for all Channel Bandwidth.

9kHz~150kHz, RBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, RBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

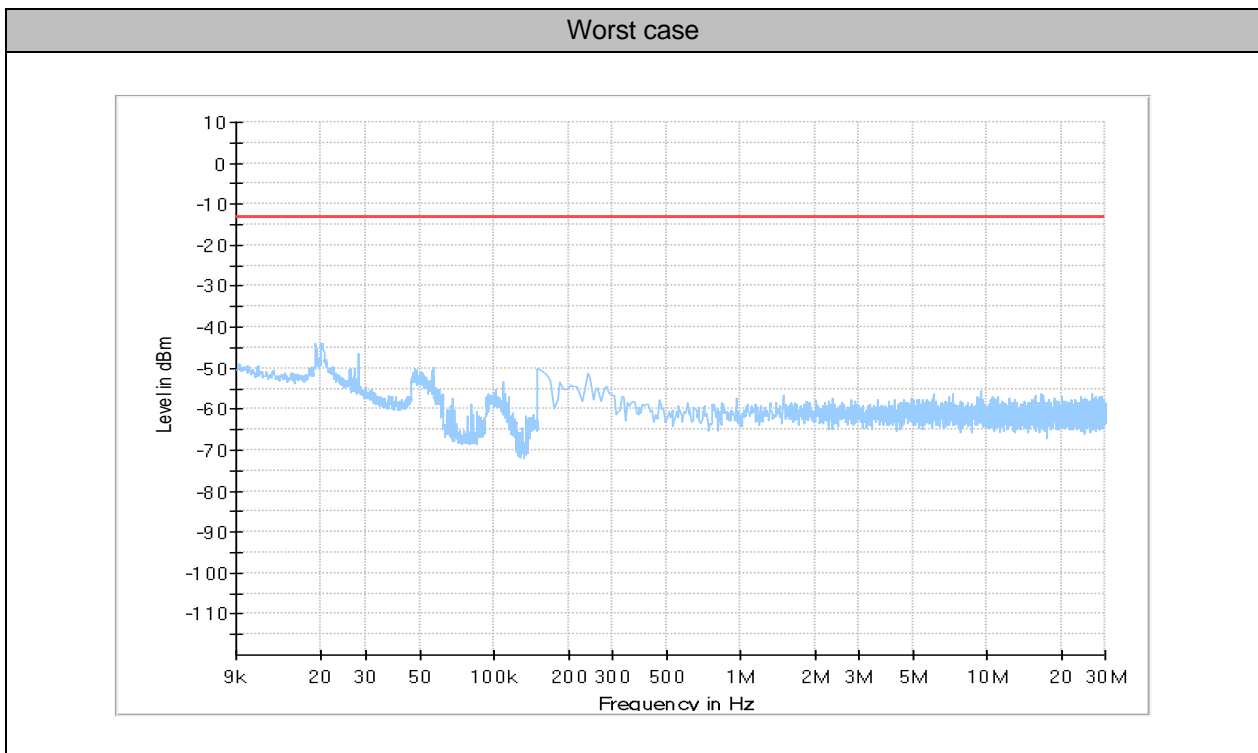
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

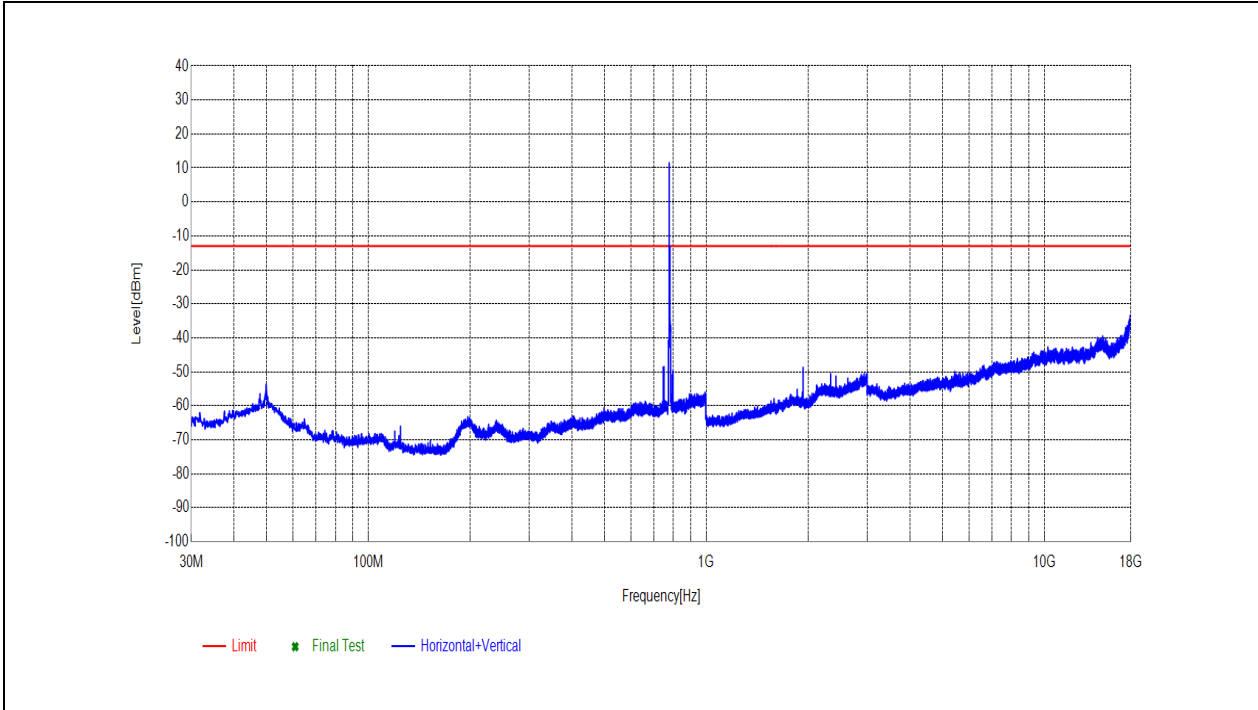
Part I - Test Plots

7.1 For LTE

7.1.1 Test Band = Band13

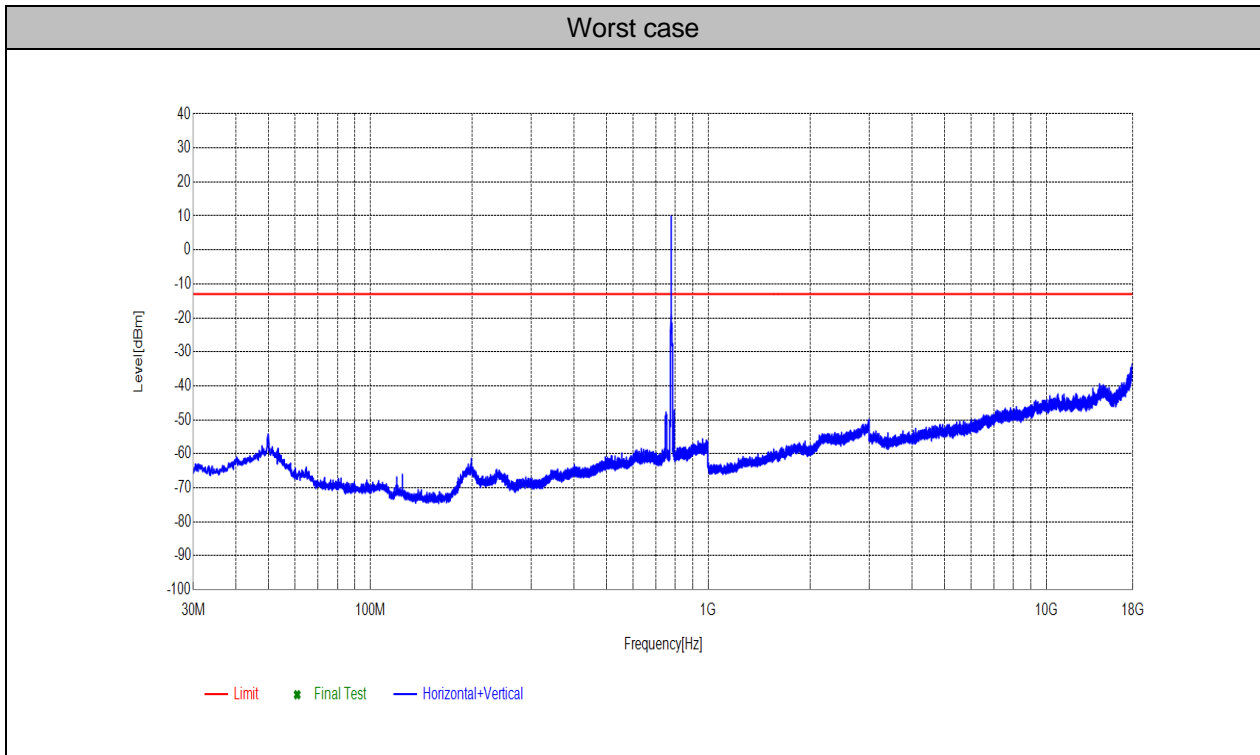
7.1.1.1 Test Bandwidth = 5MHz







7.1.1.2 Test Bandwidth = 10MHz





8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1Frequency Error vs. Voltage:

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
| Band13 | LTE/TM1 | 5 | LCH | TN | VL | -11.19864 | -0.01437 | PASS |
| | | | | | VN | -1.16780 | -0.00150 | PASS |
| | | | | | VH | 6.69307 | 0.00859 | PASS |
| | | | MCH | TN | VL | -0.81211 | -0.00104 | PASS |
| | | | | | VN | -2.65285 | -0.00339 | PASS |
| | | | | | VH | 10.42940 | 0.01334 | PASS |
| | | HCH | TN | VL | -5.87842 | -0.00749 | PASS | |
| | | | | VN | -9.50574 | -0.01212 | PASS | |
| | | | | VH | -6.13501 | -0.00782 | PASS | |
| | | 10 | MCH | TN | VL | 1.95985 | 0.00251 | PASS |
| | | | | | VN | -0.52240 | -0.00067 | PASS |
| | | | | | VH | 2.61521 | 0.00334 | PASS |
| | LTE/TM2 | 5 | LCH | TN | VL | -4.85827 | -0.00623 | PASS |
| | | | | | VN | -6.10379 | -0.00783 | PASS |
| | | | | | VH | 6.62088 | 0.00849 | PASS |
| | | | MCH | TN | VL | -5.54043 | -0.00708 | PASS |
| | | | | | VN | -3.54074 | -0.00453 | PASS |
| | | | | | VH | -1.15361 | -0.00148 | PASS |
| | | HCH | TN | VL | -2.45967 | -0.00314 | PASS | |
| | | | | VN | -3.75048 | -0.00478 | PASS | |
| | | | | VH | -1.44858 | -0.00185 | PASS | |
| | | 10 | MCH | TN | VL | 1.67596 | 0.00214 | PASS |
| | | | | | VN | -0.46235 | -0.00059 | PASS |
| | | | | | VH | -2.08320 | -0.00266 | PASS |

8.1.2Frequency Error vs. Temperature:

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
| Band13 | LTE/TM1 | 5 | LCH | VN | -30 | 0.70648 | 0.00091 | PASS |
| | | | | | -20 | -7.73238 | -0.00992 | PASS |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict | | |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|---------|------|
| | | | | | -10 | -1.25924 | -0.00162 | PASS | | |
| | | | | | 0 | 1.27591 | 0.00164 | PASS | | |
| | | | | | 10 | 1.00700 | 0.00129 | PASS | | |
| | | | | | 20 | -1.16780 | -0.00150 | PASS | | |
| | | | | | 30 | -3.35155 | -0.00430 | PASS | | |
| | | | | | 40 | 4.98693 | 0.00640 | PASS | | |
| | | | | | 50 | -1.55565 | -0.00200 | PASS | | |
| | | | MCH | VN | -30 | 2.42900 | 0.00311 | PASS | | |
| | | | | | -20 | 2.82149 | 0.00361 | PASS | | |
| | | | | | -10 | 2.60485 | 0.00333 | PASS | | |
| | | | | | 0 | -2.49932 | -0.00320 | PASS | | |
| | | | | | 10 | 8.13303 | 0.01040 | PASS | | |
| | | | | | 20 | -2.65285 | -0.00339 | PASS | | |
| | | | | | 30 | -3.93665 | -0.00503 | PASS | | |
| | | | HCH | VN | -30 | 0.08257 | 0.00011 | PASS | | |
| | | | | | -20 | 1.45432 | 0.00185 | PASS | | |
| | | | | | -10 | 8.12745 | 0.01036 | PASS | | |
| | | | | | 0 | -2.37142 | -0.00302 | PASS | | |
| | | | | | 10 | -6.41434 | -0.00818 | PASS | | |
| | | | | | 20 | -9.50574 | -0.01212 | PASS | | |
| | | 30 | | | 0.74016 | 0.00094 | PASS | | | |
| | | 10 | MCH | VN | 40 | 3.35759 | 0.00428 | PASS | | |
| | | | | | 50 | 6.43681 | 0.00820 | PASS | | |
| | | | | | -30 | -8.07455 | -0.01033 | PASS | | |
| | | | | | -20 | -3.81881 | -0.00488 | PASS | | |
| | | | | | -10 | 9.73531 | 0.01245 | PASS | | |
| | | | | | 0 | -2.04465 | -0.00261 | PASS | | |
| | | | | | 10 | 5.37752 | 0.00688 | PASS | | |
| | | | | | 20 | -0.52240 | -0.00067 | PASS | | |
| | | | | | 30 | 0.89243 | 0.00114 | PASS | | |
| | | | | | 40 | -7.99434 | -0.01022 | PASS | | |
| | | 5 | LCH | VN | 50 | -12.73159 | -0.01628 | PASS | | |
| | | | | | -30 | 0.85606 | 0.00110 | PASS | | |
| | | | | | -20 | 5.21865 | 0.00669 | PASS | | |
| | | | | | -10 | -1.44170 | -0.00185 | PASS | | |
| | | | | | 0 | 4.90001 | 0.00629 | PASS | | |
| | | LTE/TM2 | | | | | 10 | 5.26076 | 0.00675 | PASS |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict | | | | |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|-----------|-----------|----------|------|
| | | | | | 20 | -6.10379 | -0.00783 | PASS | | | | |
| | | | | | 30 | -4.73341 | -0.00607 | PASS | | | | |
| | | | | | 40 | 1.75582 | 0.00225 | PASS | | | | |
| | | | | | 50 | -7.13122 | -0.00915 | PASS | | | | |
| | | | MCH | VN | | | | -30 | 8.17482 | 0.01045 | PASS | |
| | | | | | | | | -20 | -0.50031 | -0.00064 | PASS | |
| | | | | | | | | -10 | 5.84394 | 0.00747 | PASS | |
| | | | | | | | | 0 | -3.45262 | -0.00442 | PASS | |
| | | | | | | | | 10 | 4.56751 | 0.00584 | PASS | |
| | | | | | | | | 20 | -3.54074 | -0.00453 | PASS | |
| | | | | | | | | 30 | -10.65574 | -0.01363 | PASS | |
| | | | | | | | | 40 | -3.04098 | -0.00389 | PASS | |
| | | | 50 | 0.91531 | | 0.00117 | PASS | | | | | |
| | | | HCH | VN | | | | | -30 | 11.25149 | 0.01434 | PASS |
| | | | | | | | | | -20 | -1.05861 | -0.00135 | PASS |
| | | | | | | | | | -10 | 4.14367 | 0.00528 | PASS |
| | | | | | | | | | 0 | -14.69442 | -0.01873 | PASS |
| | | | | | | | | | 10 | -3.10697 | -0.00396 | PASS |
| | | 20 | | | | | | | -3.75048 | -0.00478 | PASS | |
| | | 30 | | | | | | | 5.94965 | 0.00758 | PASS | |
| | | 40 | | | | | | | -7.40017 | -0.00943 | PASS | |
| | | 50 | 4.74761 | 0.00605 | | | PASS | | | | | |
| | | 10 | MCH | | | | VN | -30 | -0.02070 | -0.00003 | PASS | |
| | | | | | | | | -20 | 0.94961 | 0.00121 | PASS | |
| | | | | | | | | -10 | -0.22385 | -0.00029 | PASS | |
| | | | | | | | | 0 | -2.17930 | -0.00279 | PASS | |
| | | | | | | | | 10 | -2.34202 | -0.00299 | PASS | |
| | | | | | | | | 20 | -0.46235 | -0.00059 | PASS | |
| | | | | | | | | 30 | -1.21863 | -0.00156 | PASS | |
| | | | | | | | | 40 | -6.13117 | -0.00784 | PASS | |
| | | | | | | | | 50 | 3.05112 | 0.00390 | PASS | |

END