



Appendix for test report

1Appendix_A: Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

| Test Band | Test Mode | Test Channel | Measured[dBm] | ERP [dBm] | Limit [dBm] | Verdict |
|-----------|-----------|--------------|---------------|------------|-------------|---------|
| GSM850 | GSM/TM1 | LCH | 32.77 | 25.22 | 38.5 | PASS |
| | | MCH | 32.74 | 25.19 | 38.5 | PASS |
| | | HCH | 32.78 | 25.23 | 38.5 | PASS |
| | GSM/TM2 | LCH | 26.12 | 18.57 | 38.5 | PASS |
| | | MCH | 26.30 | 18.75 | 38.5 | PASS |
| | | HCH | 26.29 | 18.74 | 38.5 | PASS |
| Test Band | Test Mode | Test Channel | Measured[dBm] | EIRP [dBm] | Limit [dBm] | Verdict |
| PCS1900 | GSM/TM1 | LCH | 30.14 | 30.44 | 33 | PASS |
| | | MCH | 30.14 | 30.44 | 33 | PASS |
| | | HCH | 29.91 | 30.21 | 33 | PASS |
| | GSM/TM2 | LCH | 26.42 | 26.72 | 33 | PASS |
| | | MCH | 26.39 | 26.69 | 33 | PASS |
| | | HCH | 26.68 | 26.98 | 33 | 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,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b, SGP = Signal Generator Level

Note2:

$$\text{SET Span} = 1.5 * \text{OBW}$$

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

$$\text{SET VBW} \geq 3 * \text{RBW}$$

SET Sweep time = auto - couple.

Detector: RMS



2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

| Test Band | Test Mode | Test Channel | Measured[dB] | Limit [dB] | Verdict |
|-----------|-----------|--------------|--------------|------------|---------|
| GSM850 | GSM/TM1 | LCH | 1.75 | 13 | PASS |
| | | MCH | 1.95 | 13 | PASS |
| | | HCH | 1.77 | 13 | PASS |
| | GSM/TM2 | LCH | 4.47 | 13 | PASS |
| | | MCH | 4.73 | 13 | PASS |
| | | HCH | 4.62 | 13 | PASS |
| PCS1900 | GSM/TM1 | LCH | 1.72 | 13 | PASS |
| | | MCH | 1.91 | 13 | PASS |
| | | HCH | 2.05 | 13 | PASS |
| | GSM/TM2 | LCH | 4.54 | 13 | PASS |
| | | MCH | 4.75 | 13 | PASS |
| | | HCH | 4.38 | 13 | PASS |

3Appendix_C: Modulation Characteristics

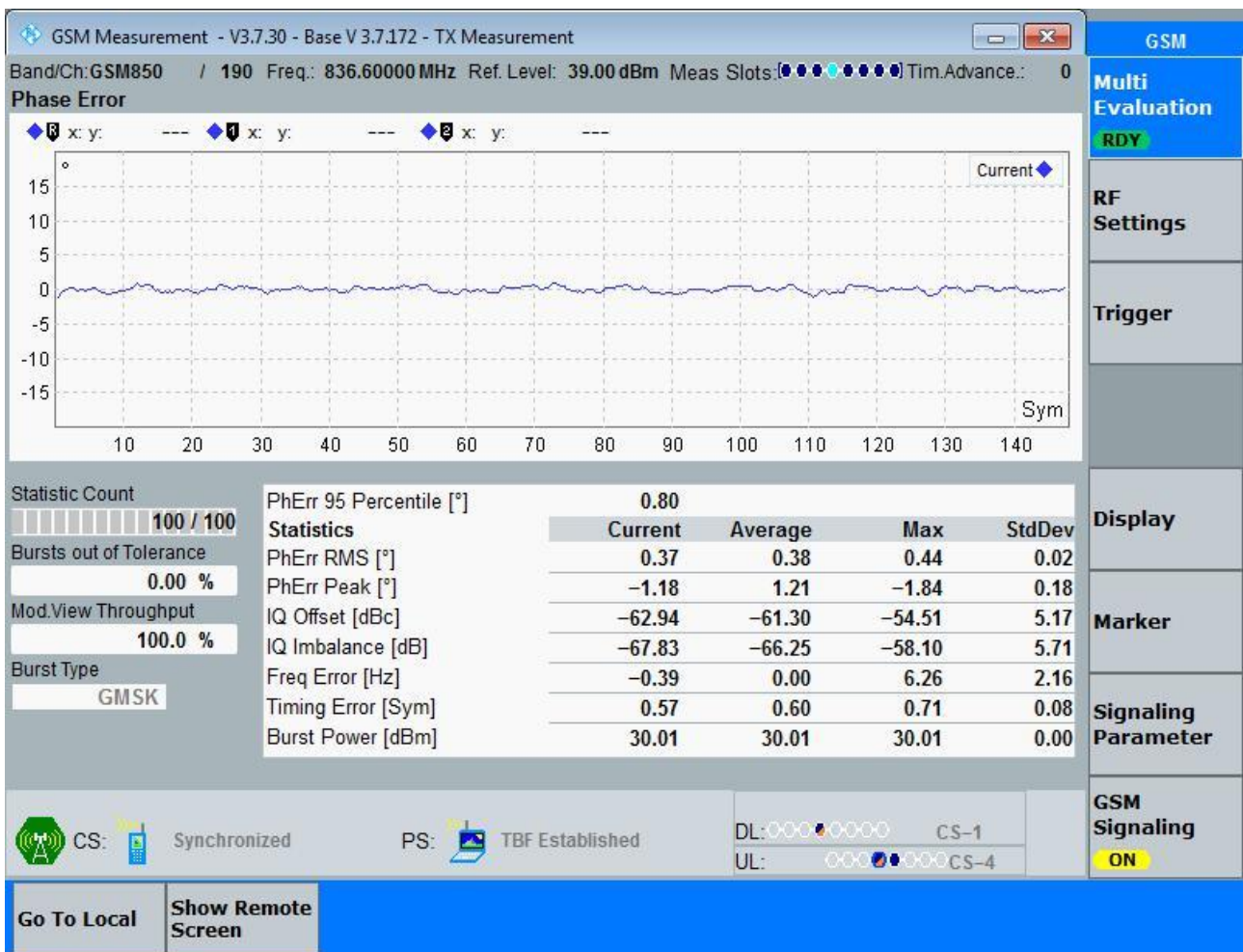
Part I - Test Plots

3.1 For GSM

3.1.1 Test Band = GSM850

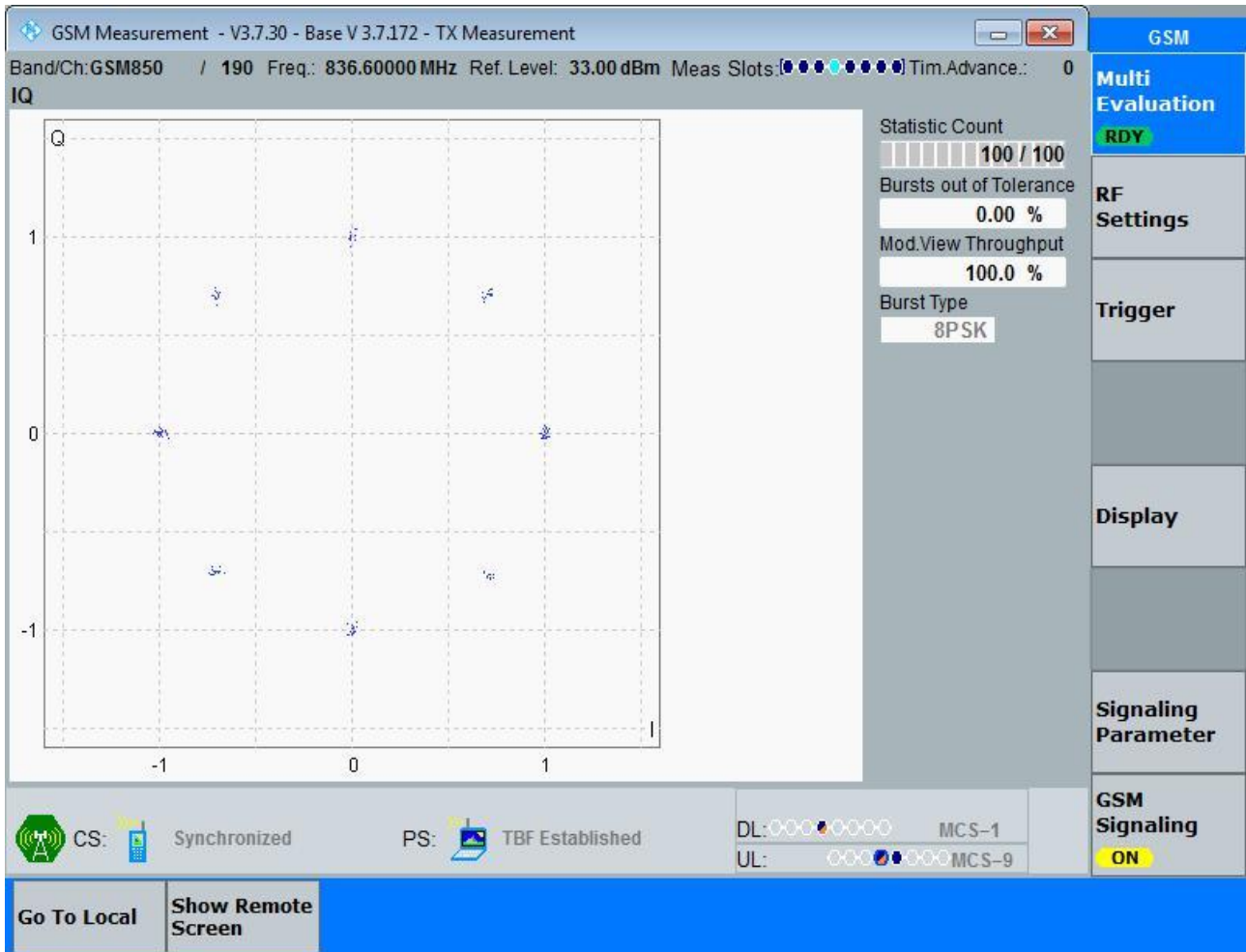
3.1.1.1 Test Mode = GSM/TM1

3.1.1.1.1 Test Channel = MCH



3.1.1.2 Test Mode = GSM/TM2

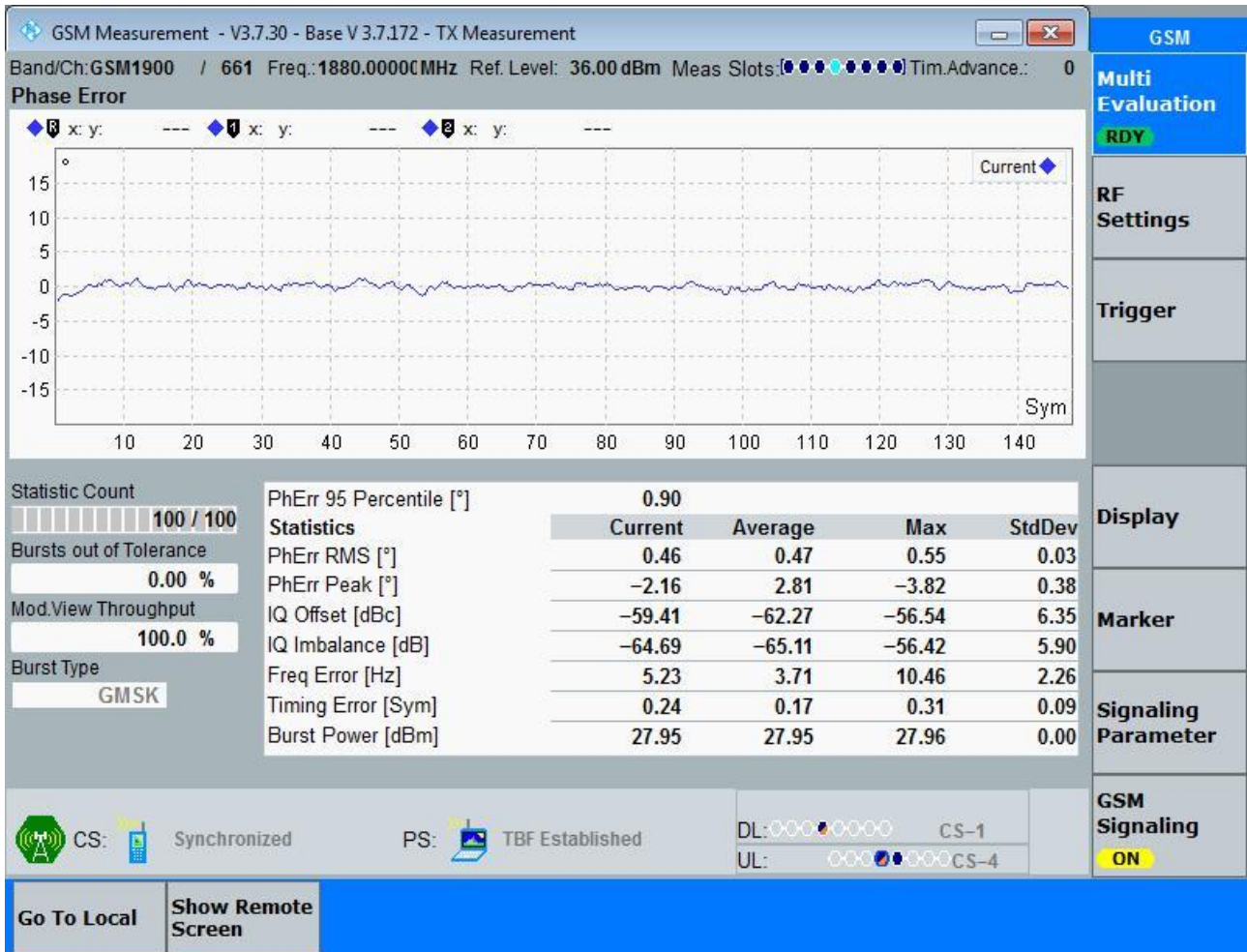
3.1.1.2.1 Test Channel = MCH



3.1.2 Test Band = PCS1900

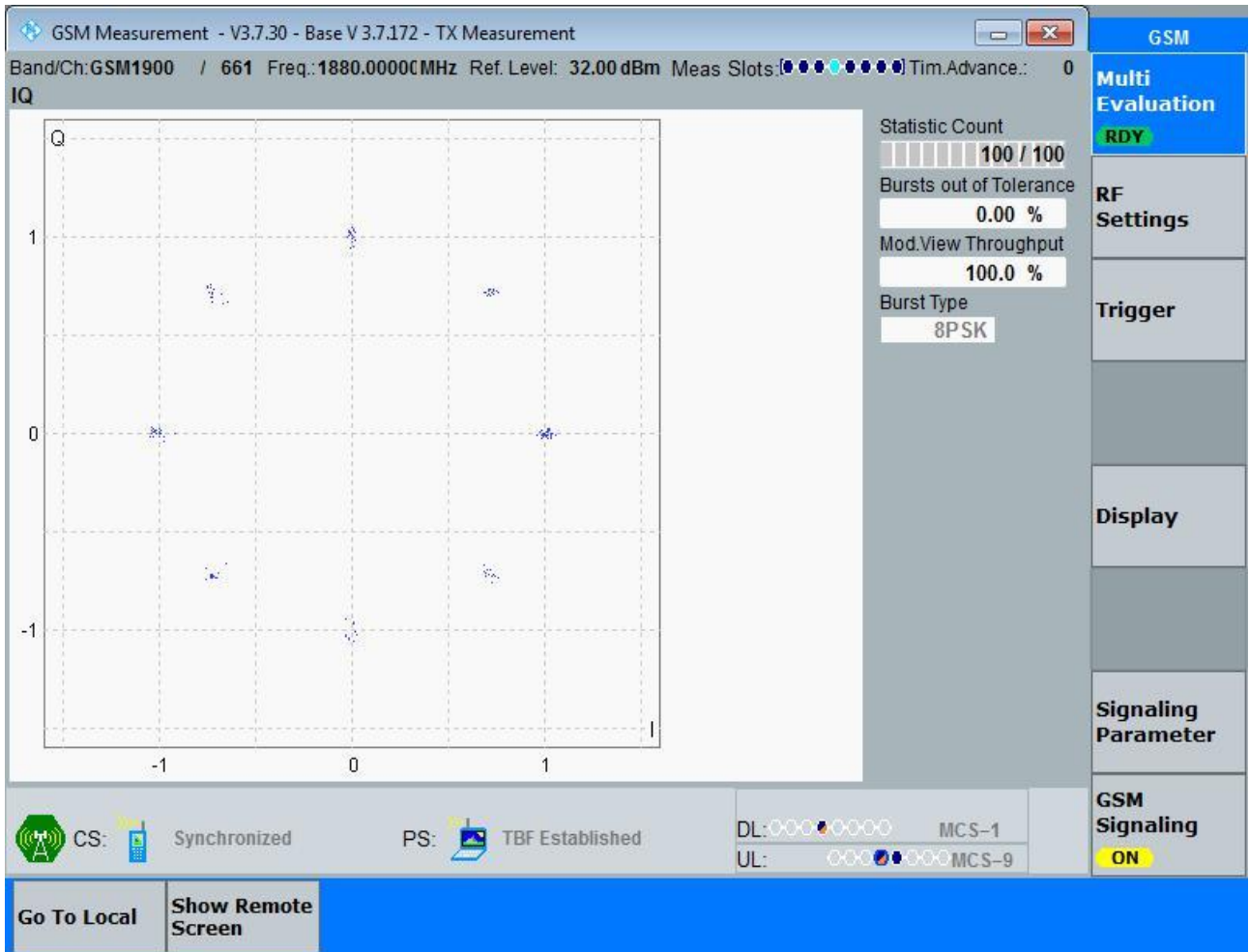
3.1.2.1 Test Mode = GSM/TM1

3.1.2.1.1 Test Channel = MCH



3.1.2.2 Test Mode = GSM/TM2

3.1.2.2.1 Test Channel = MCH



4Appendix_D: Bandwidth

Part I - Test Results

| Test Band | Test Mode | Test Channel | Occupied Bandwidth [kHz] | Emission Bandwidth [kHz] | Verdict |
|-----------|-----------|--------------|--------------------------|--------------------------|---------|
| GSM850 | GSM/TM1 | LCH | 245.67 | 317.5 | Pass |
| | | MCH | 246.71 | 318.0 | Pass |
| | | HCH | 248.71 | 314.5 | Pass |
| | GSM/TM2 | LCH | 249.72 | 322.1 | Pass |
| | | MCH | 253.21 | 315.6 | Pass |
| | | HCH | 252.65 | 314.6 | Pass |
| PCS1900 | GSM/TM1 | LCH | 243.35 | 313.9 | Pass |
| | | MCH | 244.73 | 319.9 | Pass |
| | | HCH | 247.70 | 319.6 | Pass |
| | GSM/TM2 | LCH | 254.75 | 316.8 | Pass |
| | | MCH | 250.28 | 318.1 | Pass |
| | | HCH | 250.68 | 315.0 | Pass |

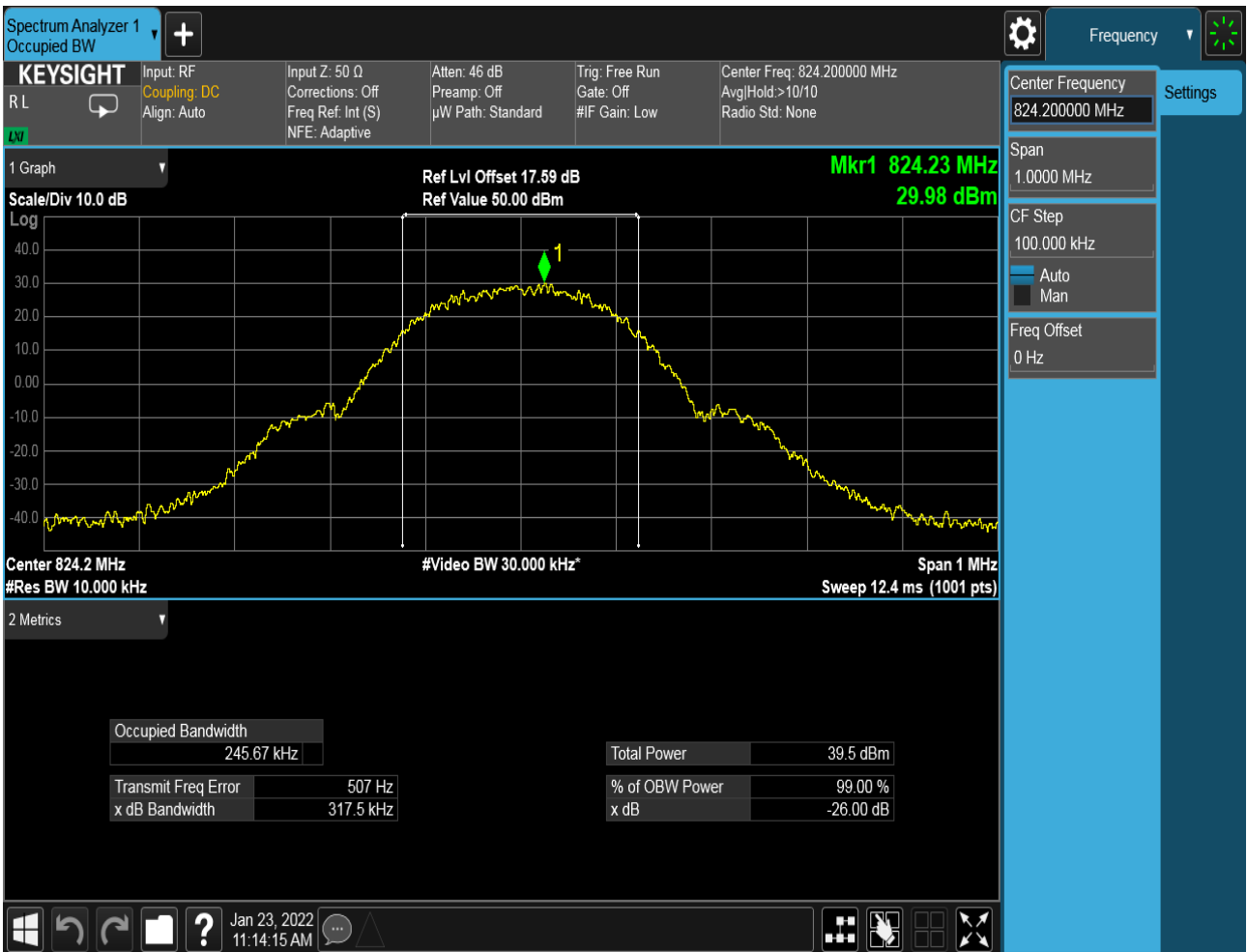
Part II - Test Plots

4.1 For GSM

4.1.1 Test Band = GSM850

4.1.1.1 Test Mode = GSM/TM1

4.1.1.1.1 Test Channel = LCH





4.1.1.1.2 Test Channel = MCH





4.1.1.1.3 Test Channel = HCH





4.1.1.2 Test Mode = GSM/TM2

4.1.1.2.1 Test Channel = LCH





4.1.1.2.2 Test Channel = MCH





4.1.1.2.3 Test Channel = HCH

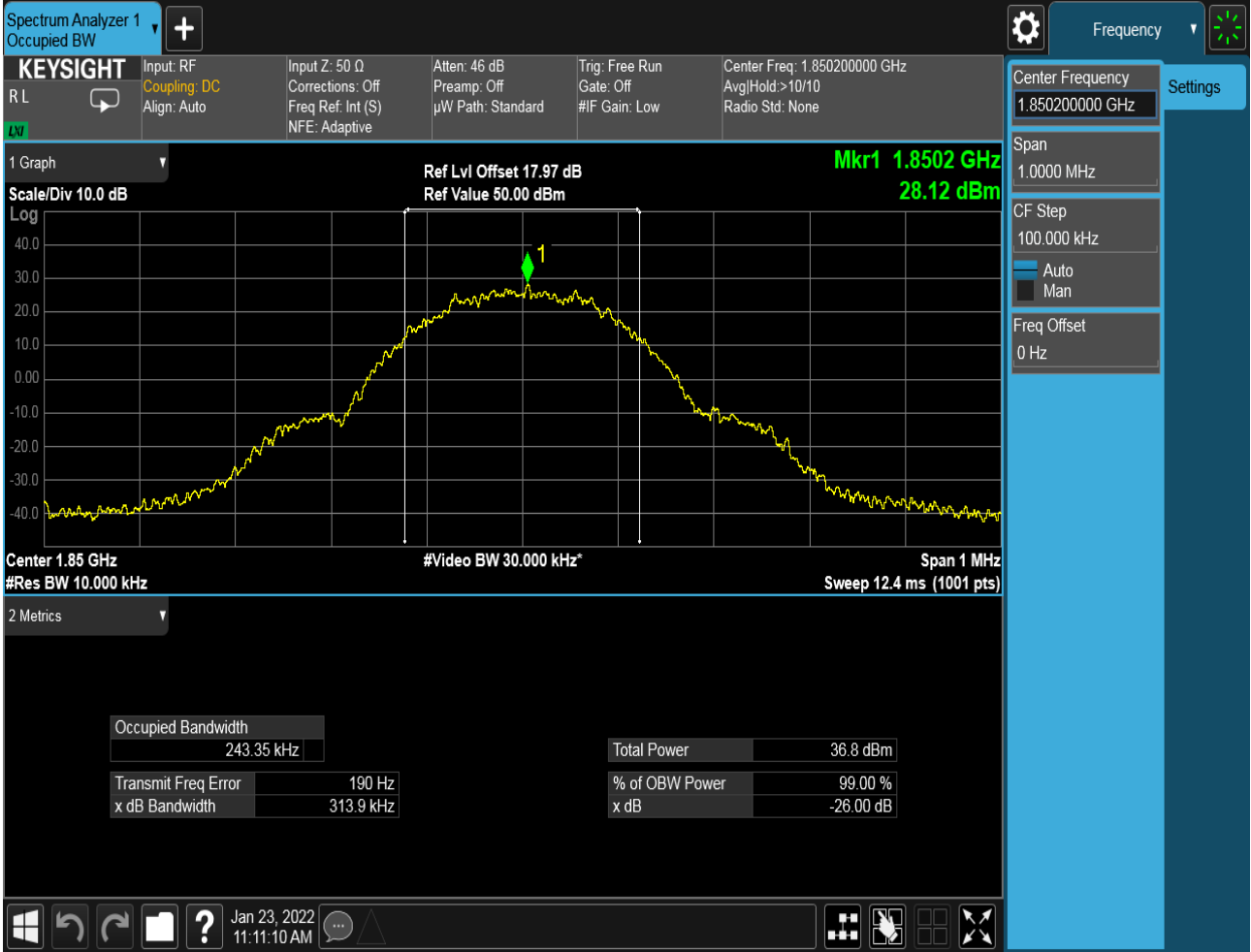




4.1.2 Test Band = PCS1900

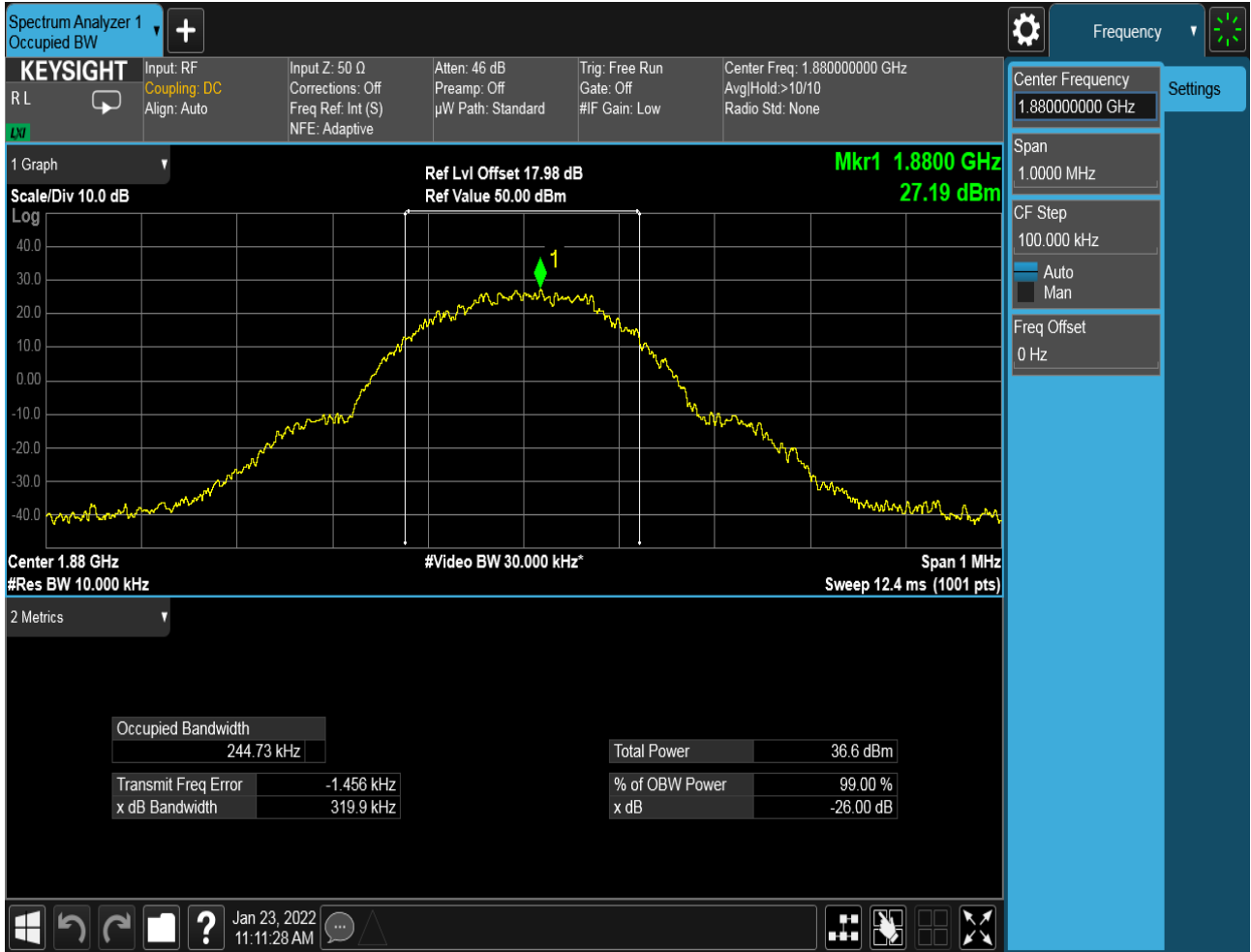
4.1.2.1 Test Mode = GSM/TM1

4.1.2.1.1 Test Channel = LCH



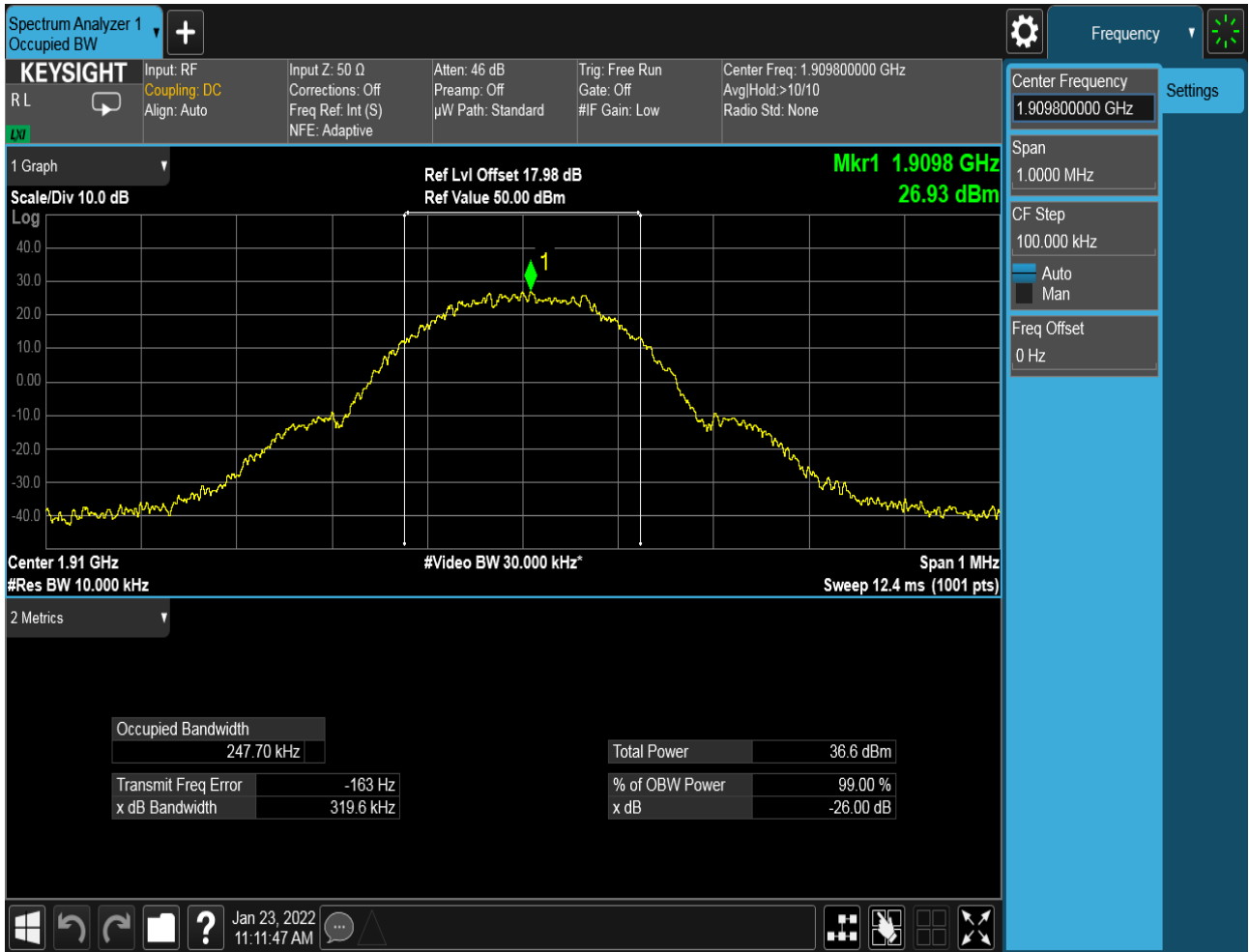


4.1.2.1.2 Test Channel = MCH





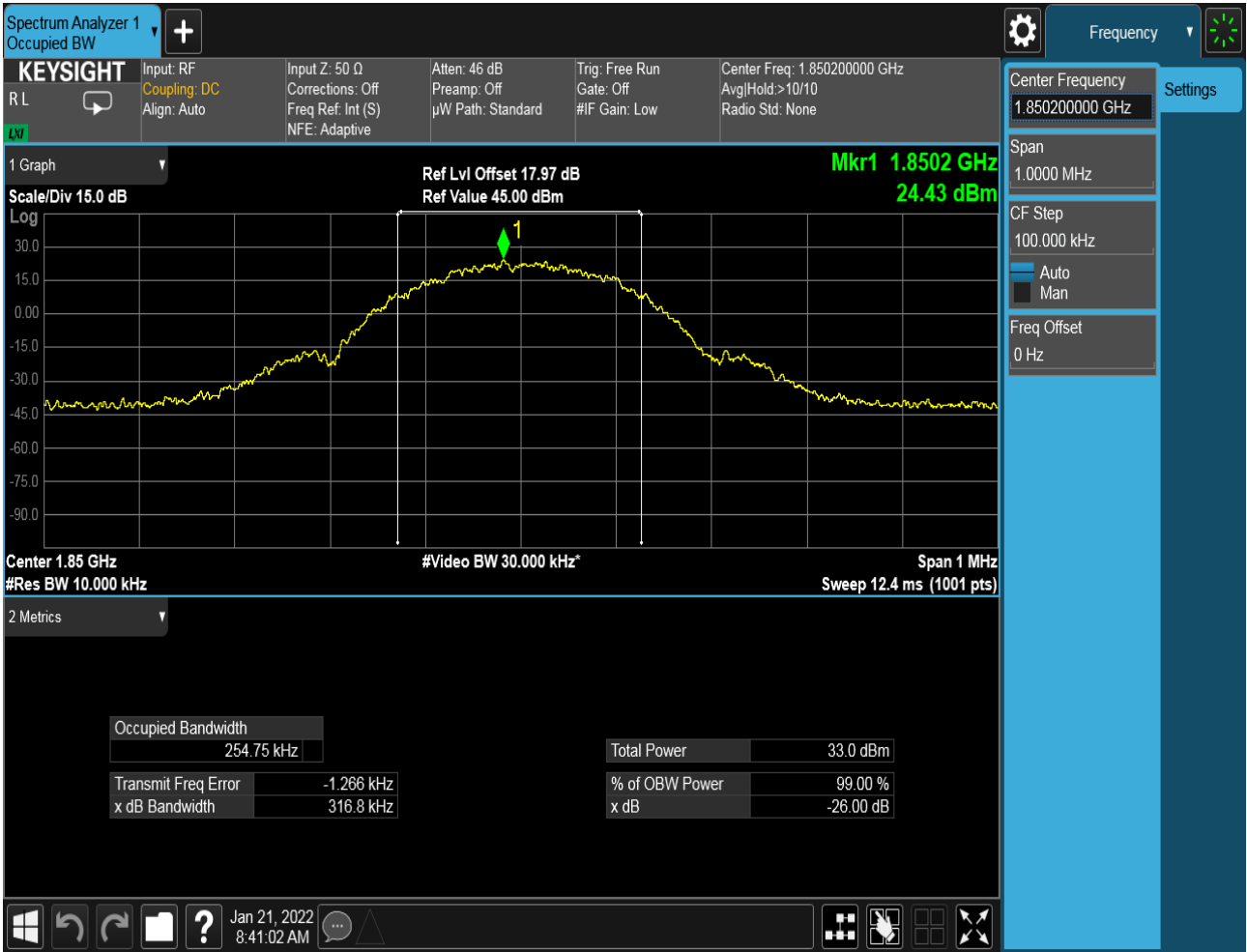
4.1.2.1.3 Test Channel = HCH





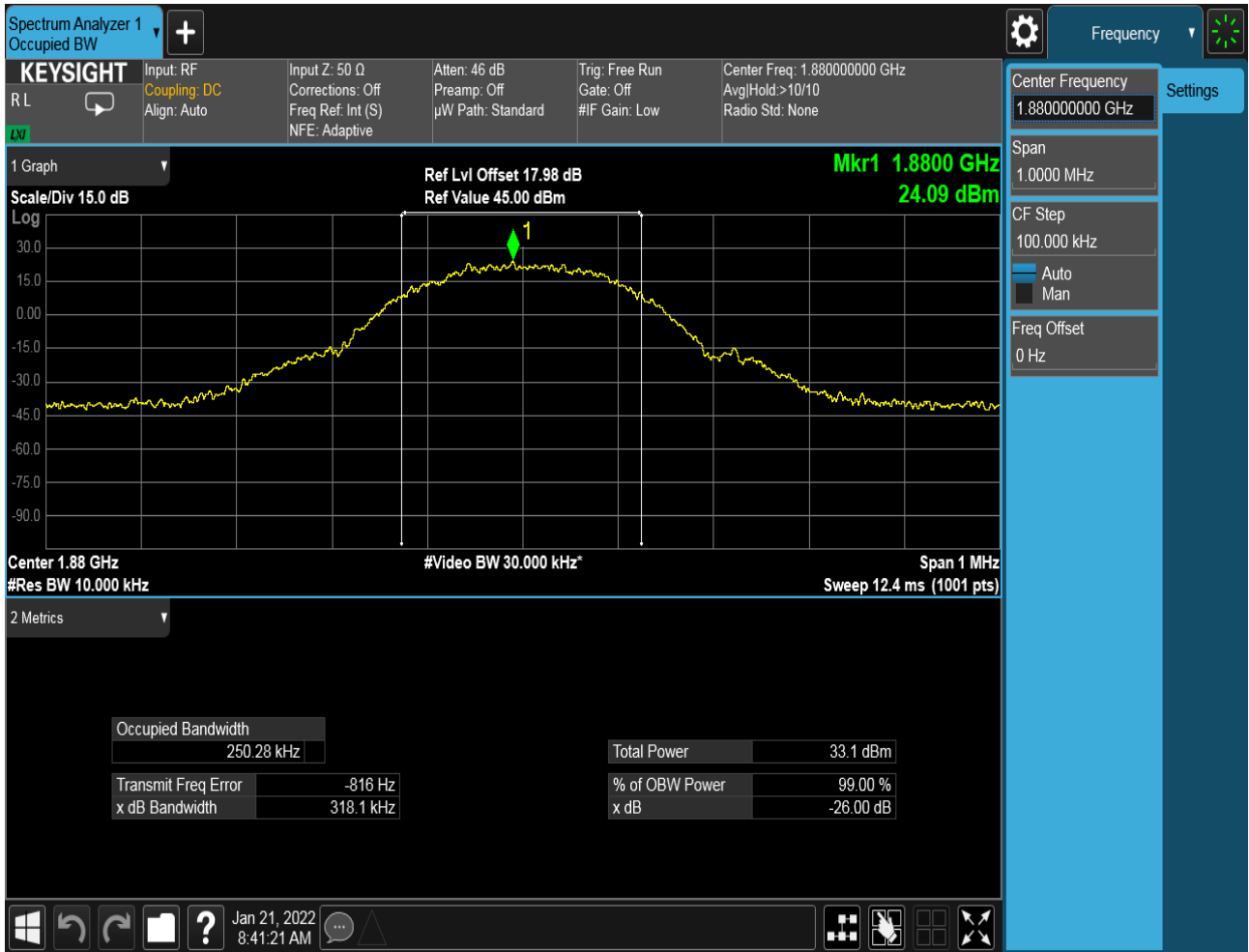
4.1.2.2 Test Mode = GSM/TM2

4.1.2.2.1 Test Channel = LCH



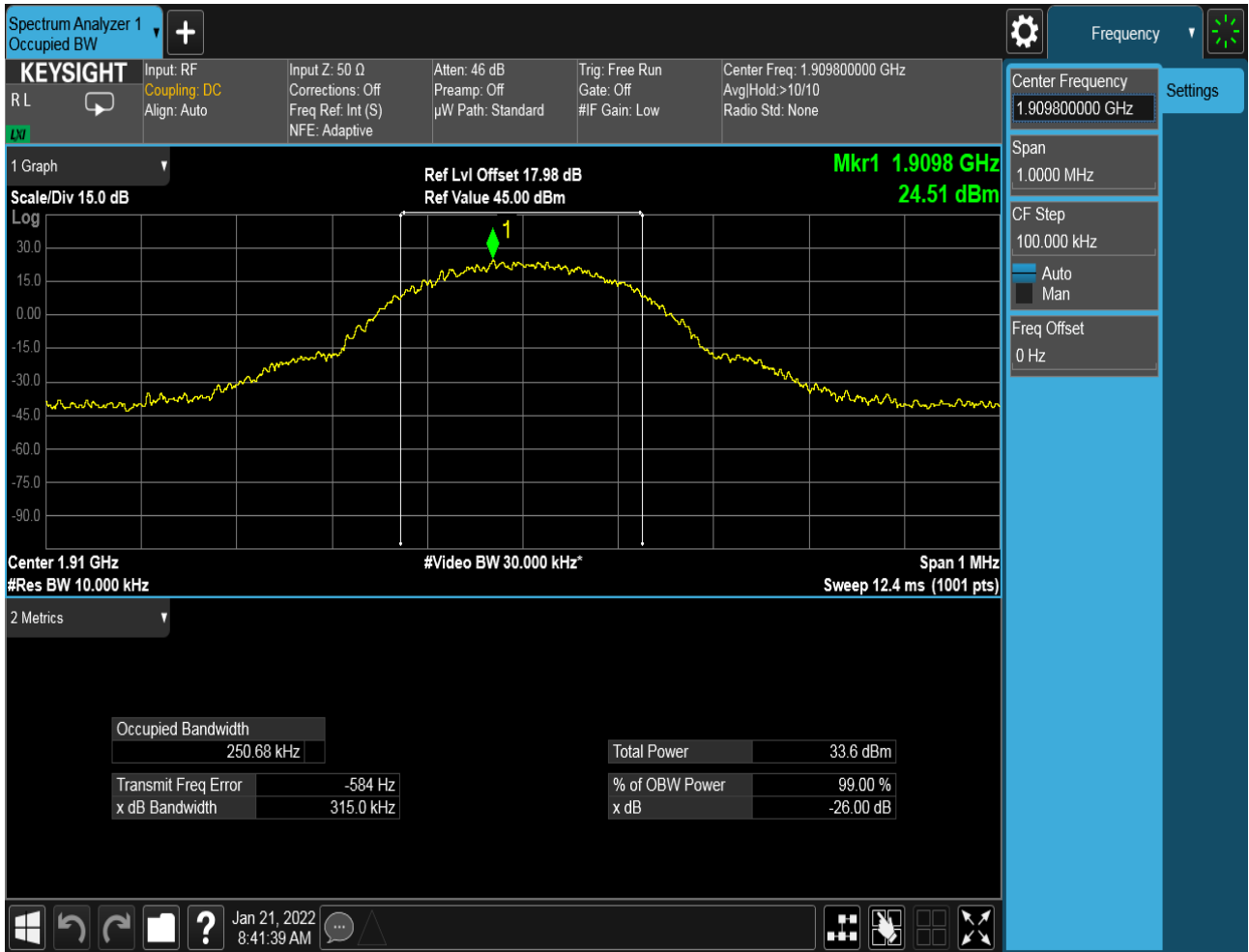


4.1.2.2.2 Test Channel = MCH





4.1.2.2.3 Test Channel = HCH



5Appendix_E: Band Edges Compliance

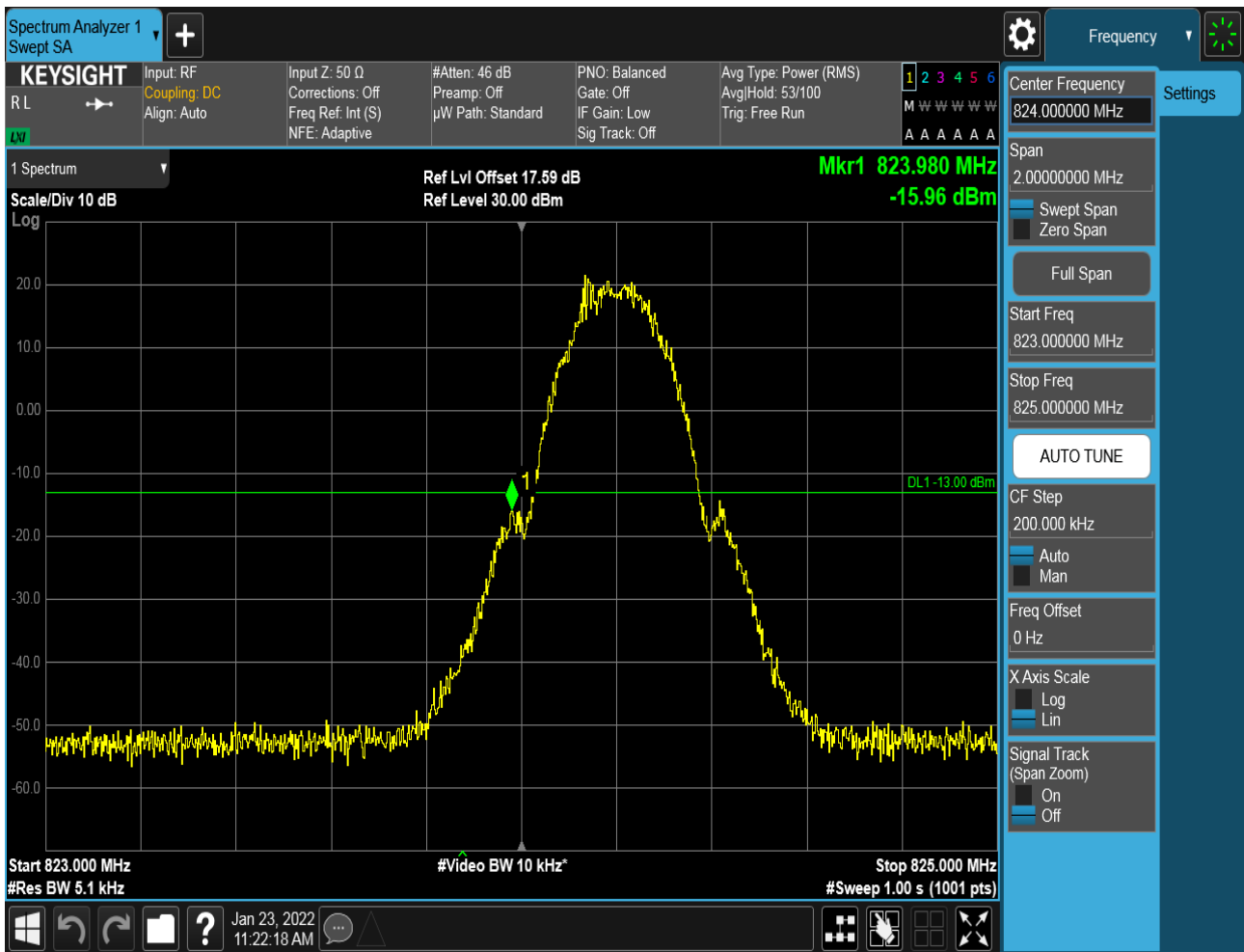
Part I - Test Plots

5.1 For GSM

5.1.1 Test Band = GSM850

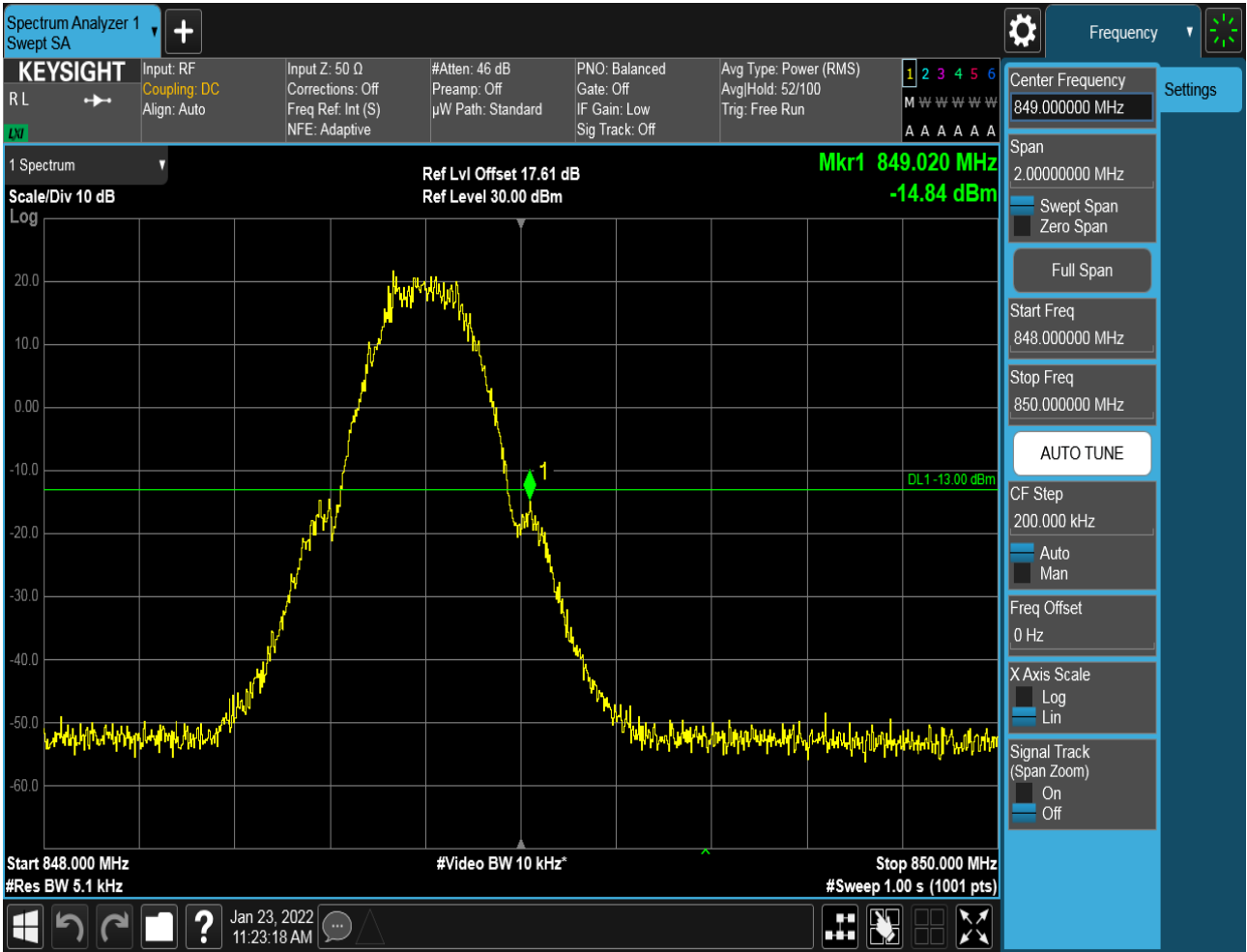
5.1.1.1 Test Mode = GSM/TM1

5.1.1.1.1 Test Channel = LCH





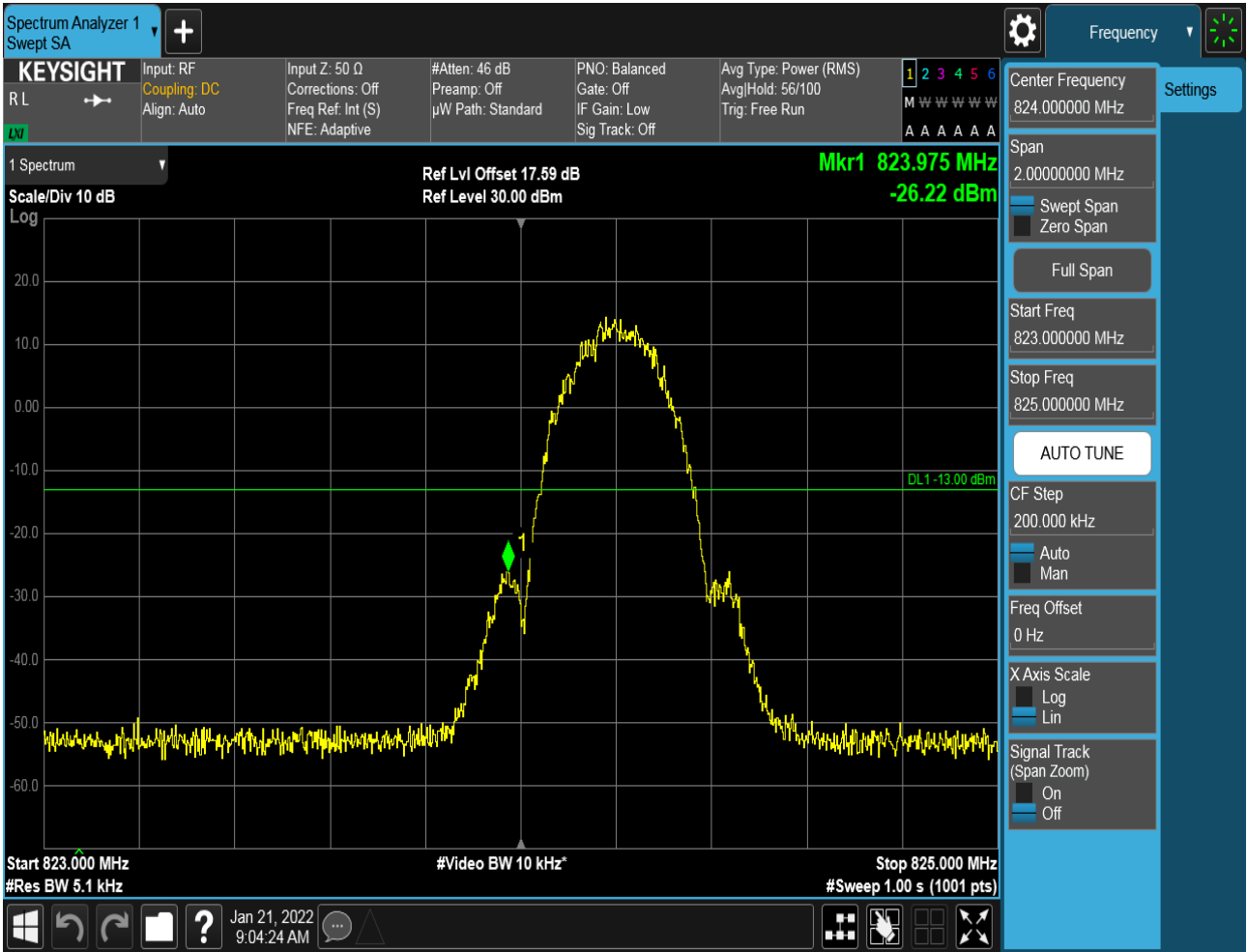
5.1.1.1.2 Test Channel = HCH





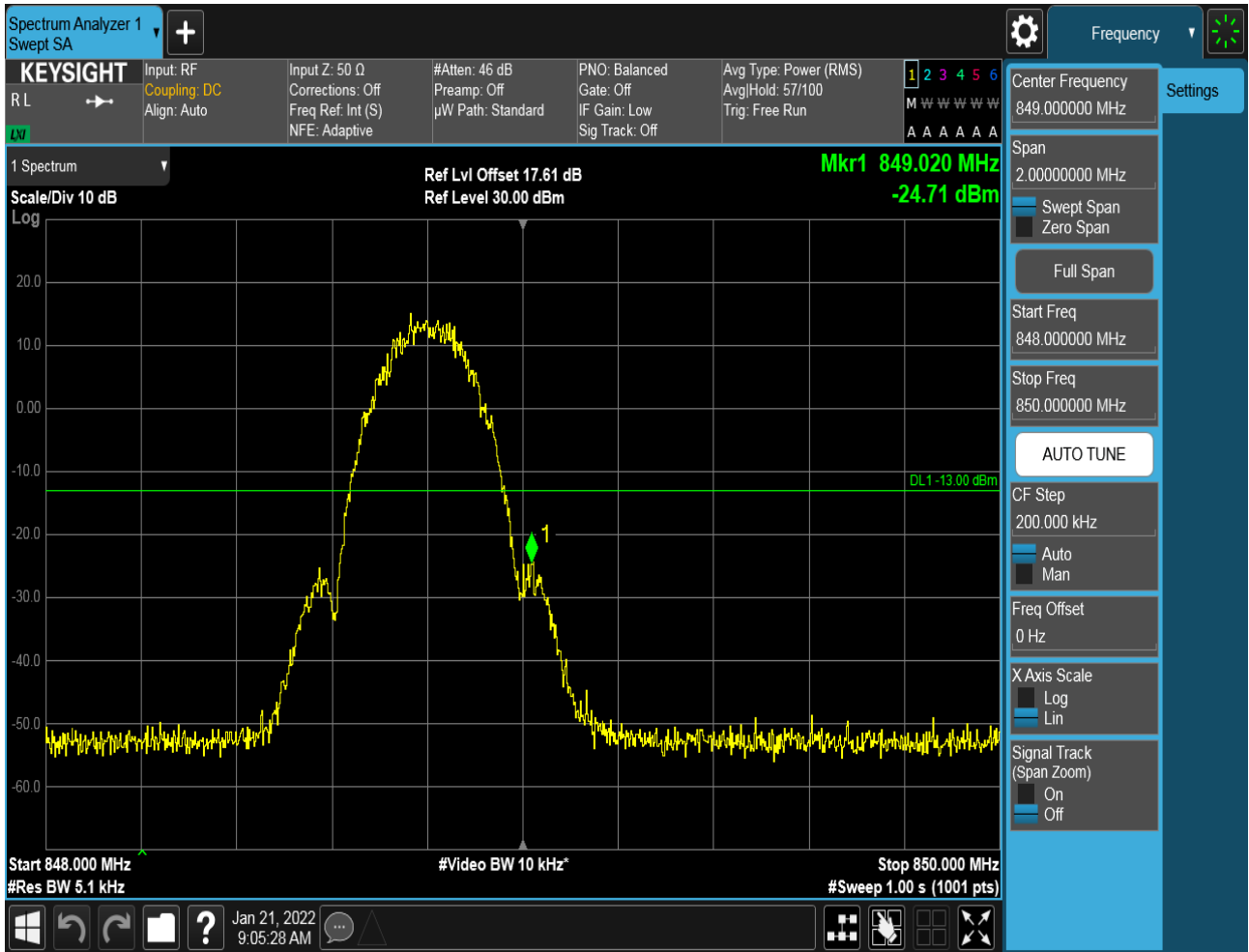
5.1.1.2 Test Mode = GSM/TM2

5.1.1.2.1 Test Channel = LCH





5.1.1.2.2 Test Channel = HCH

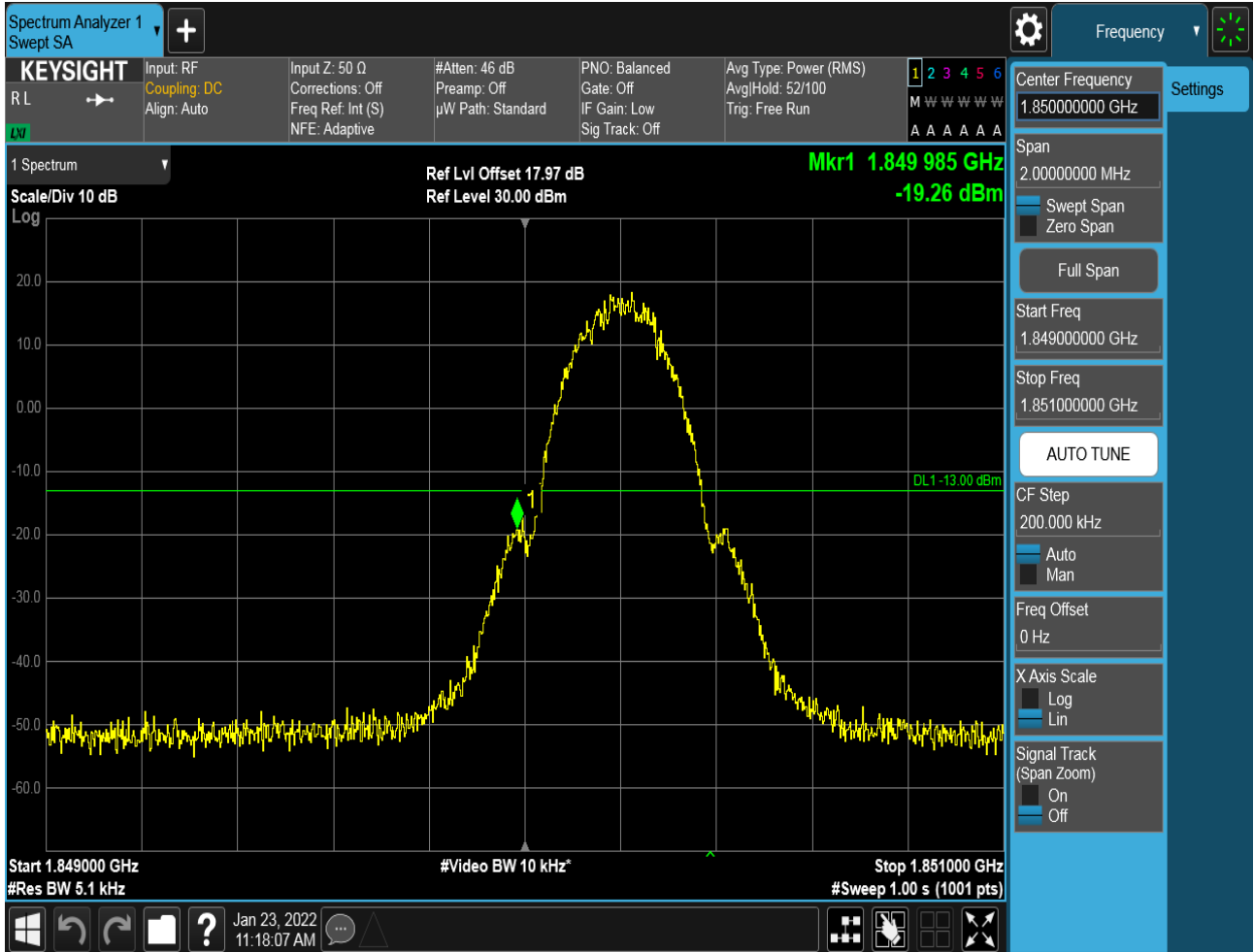




5.1.2 Test Band = PCS1900

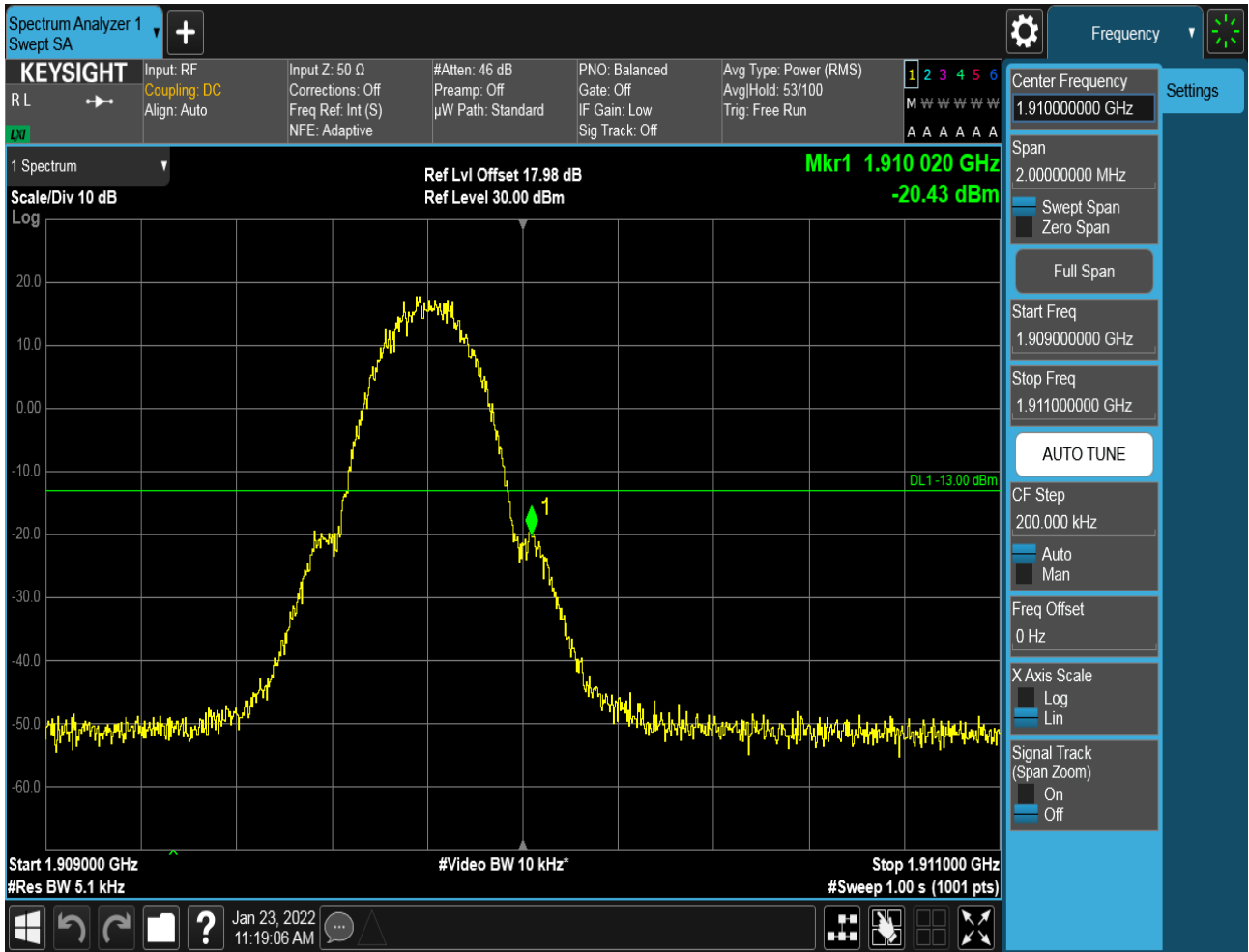
5.1.2.1 Test Mode = GSM/TM1

5.1.2.1.1 Test Channel = LCH





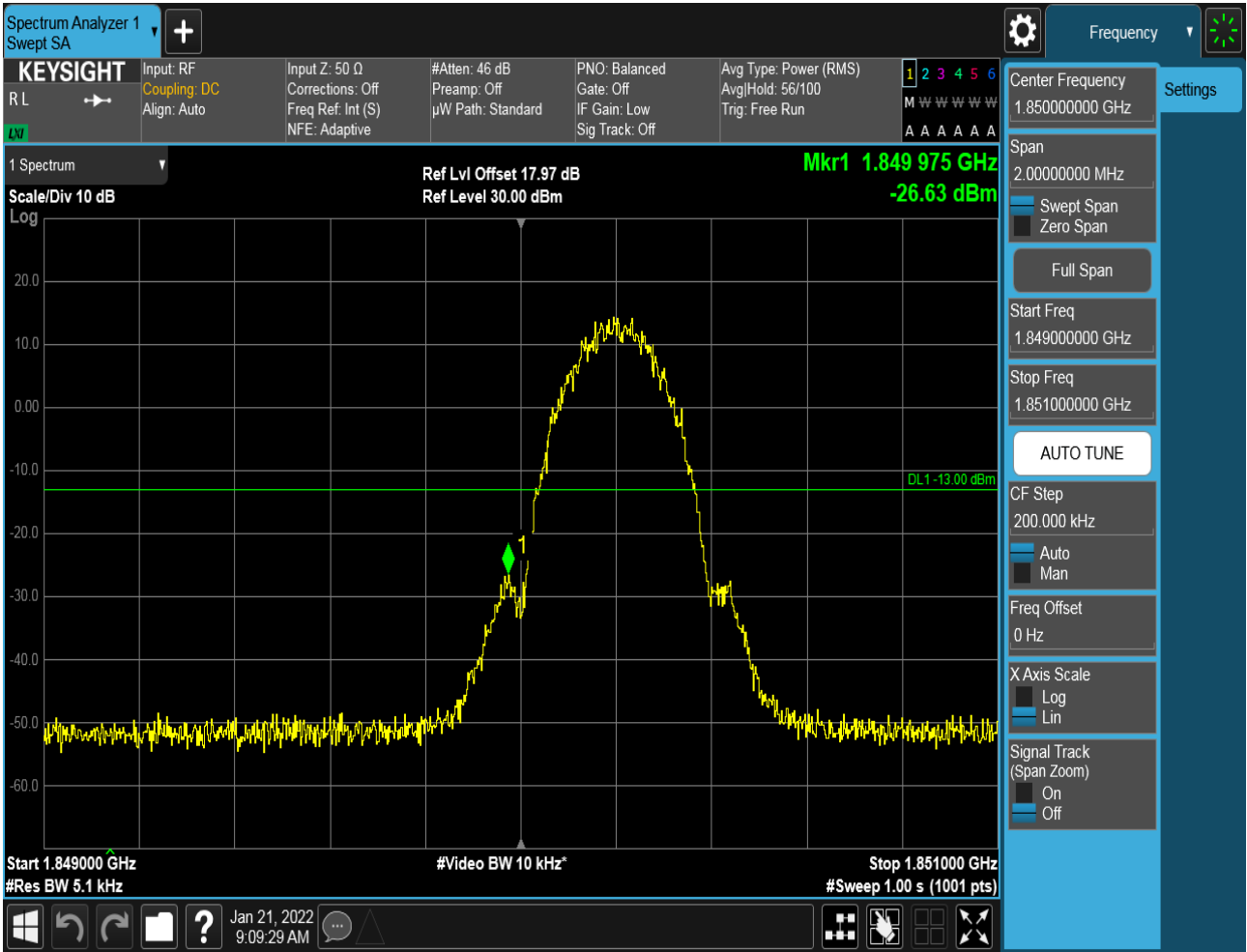
5.1.2.1.2 Test Channel = HCH





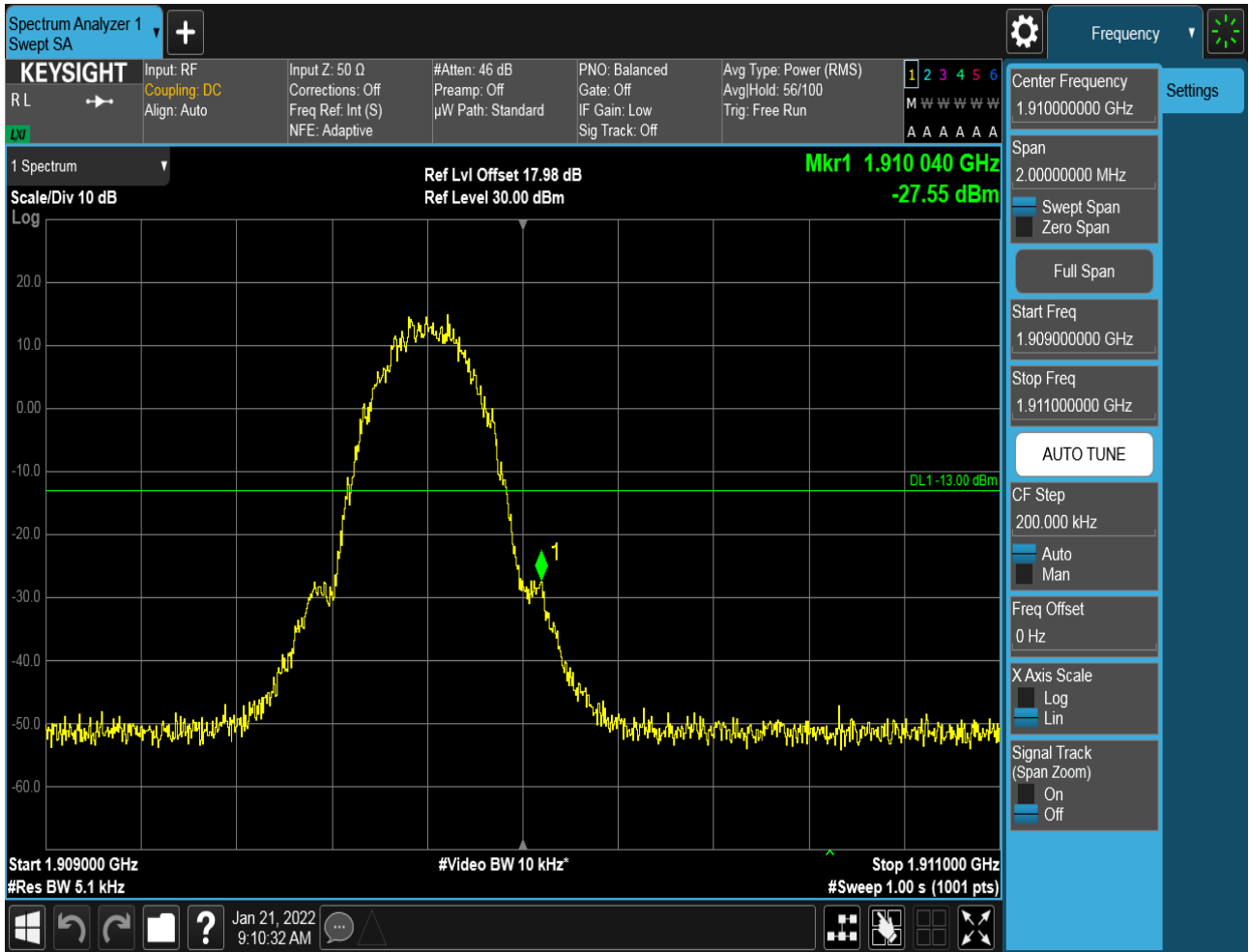
5.1.2.2 Test Mode = GSM/TM2

5.1.2.2.1 Test Channel = LCH





5.1.2.2.2 Test Channel = HCH



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.

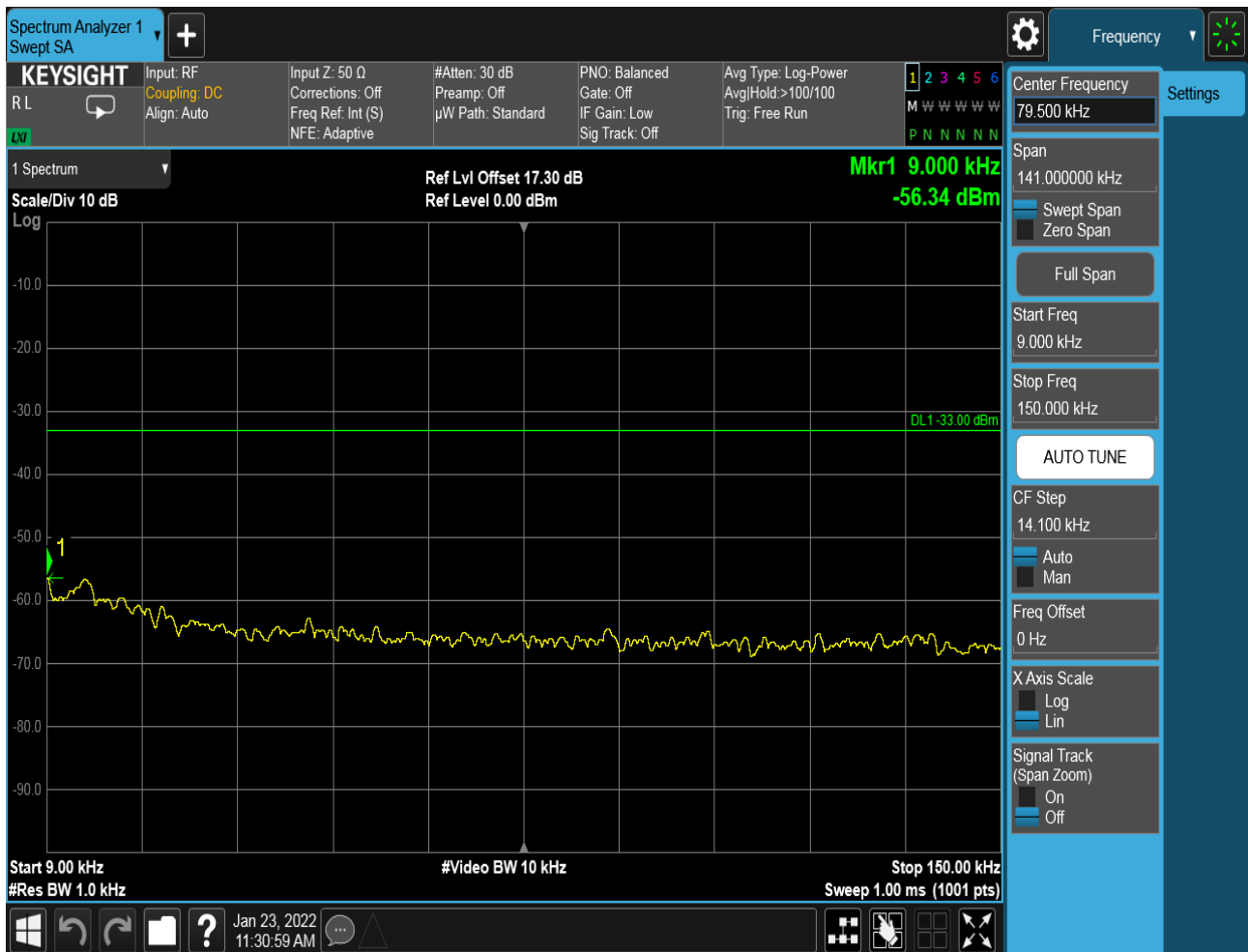
Part I - Test Plots

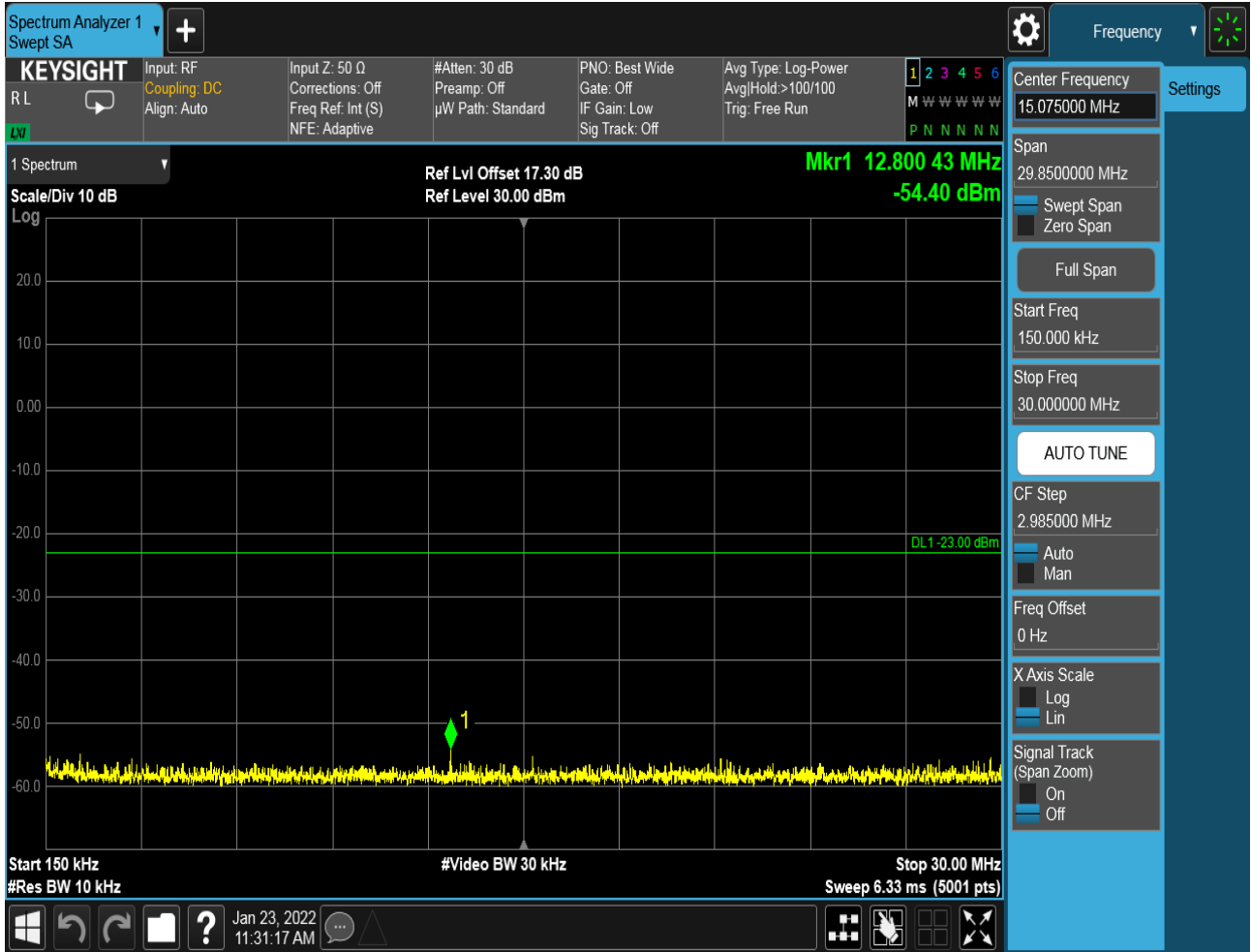
6.1 For GSM

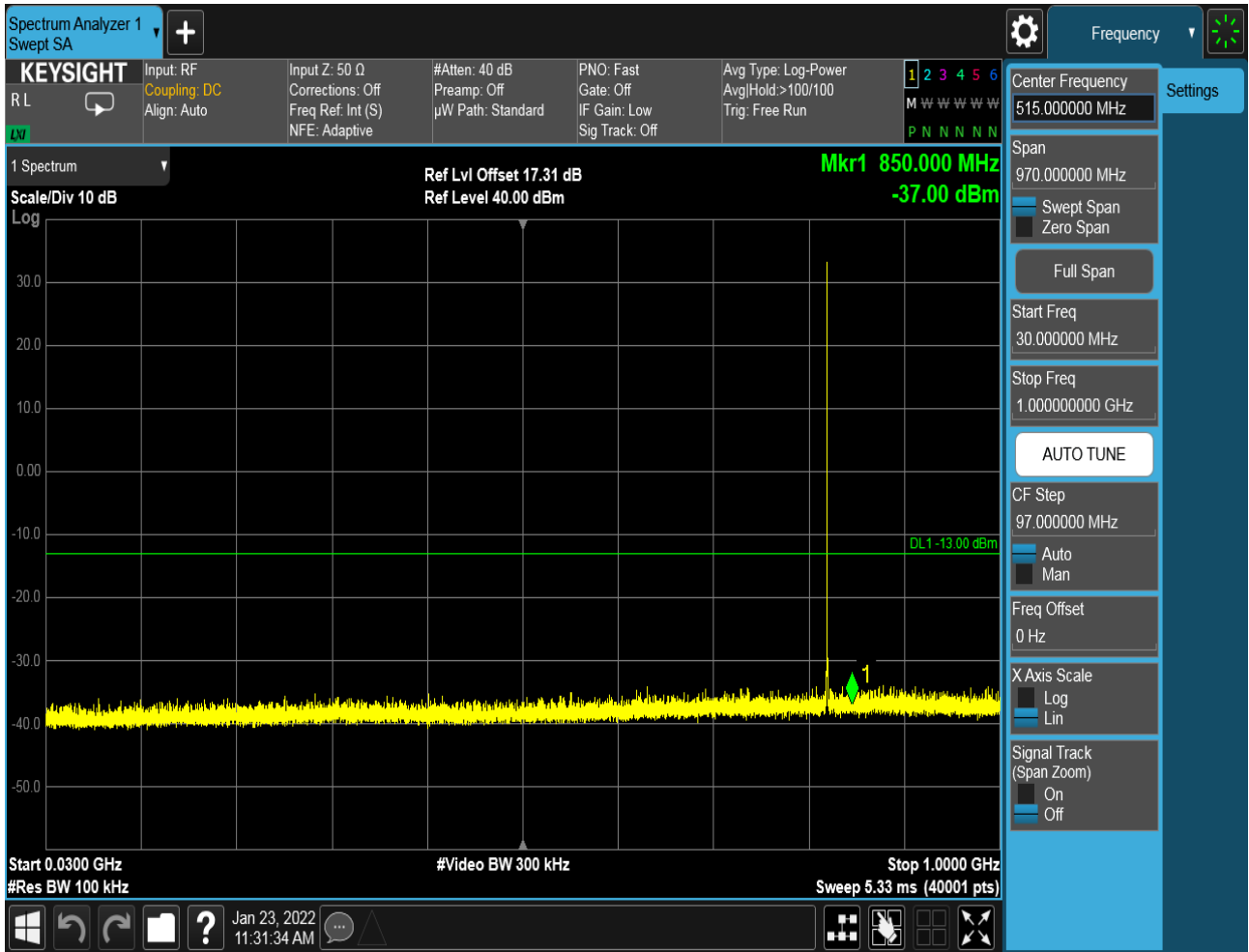
6.1.1 Test Band = GSM850

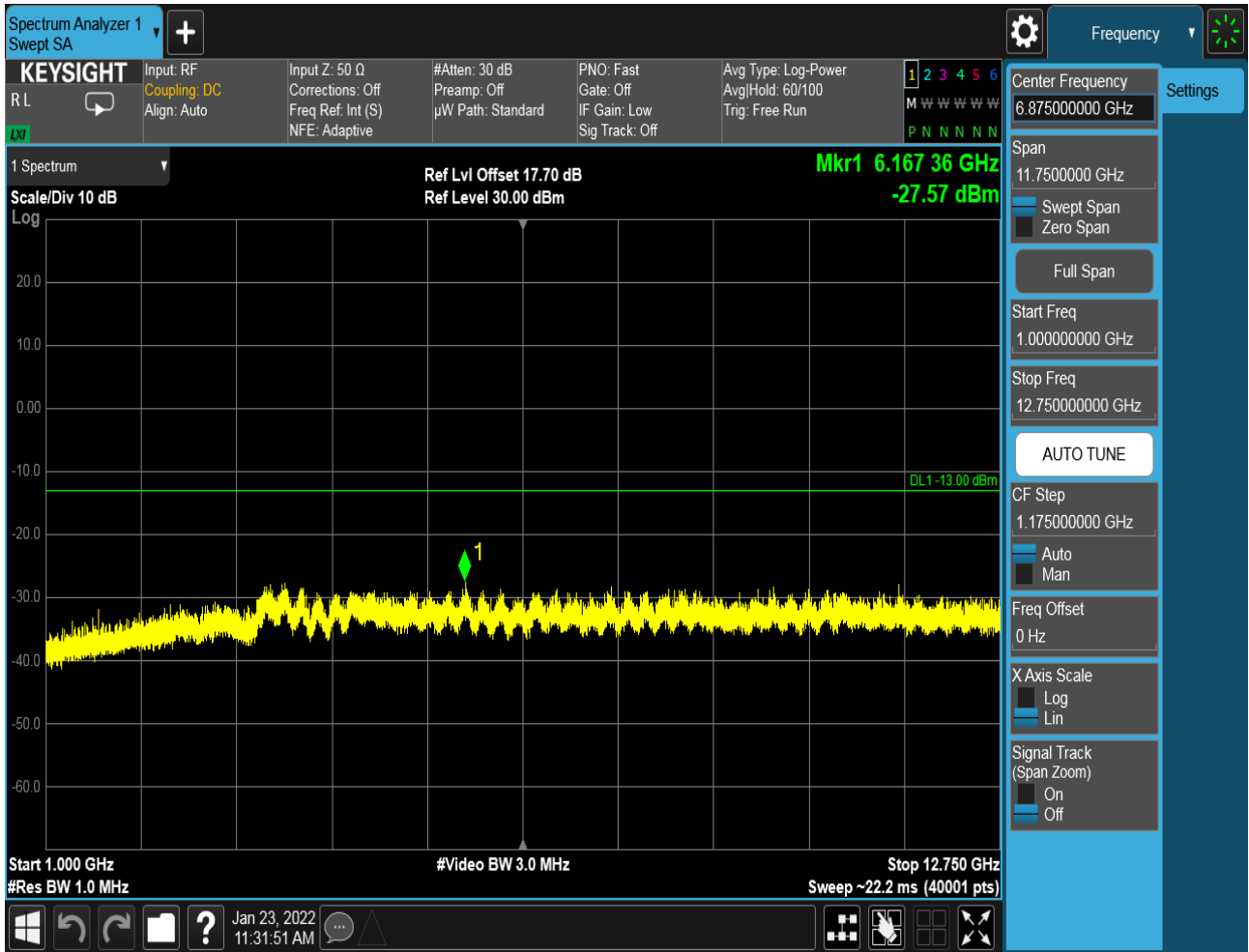
6.1.1.1 Test Mode = GSM/TM1

6.1.1.1.1 Test Channel = LCH



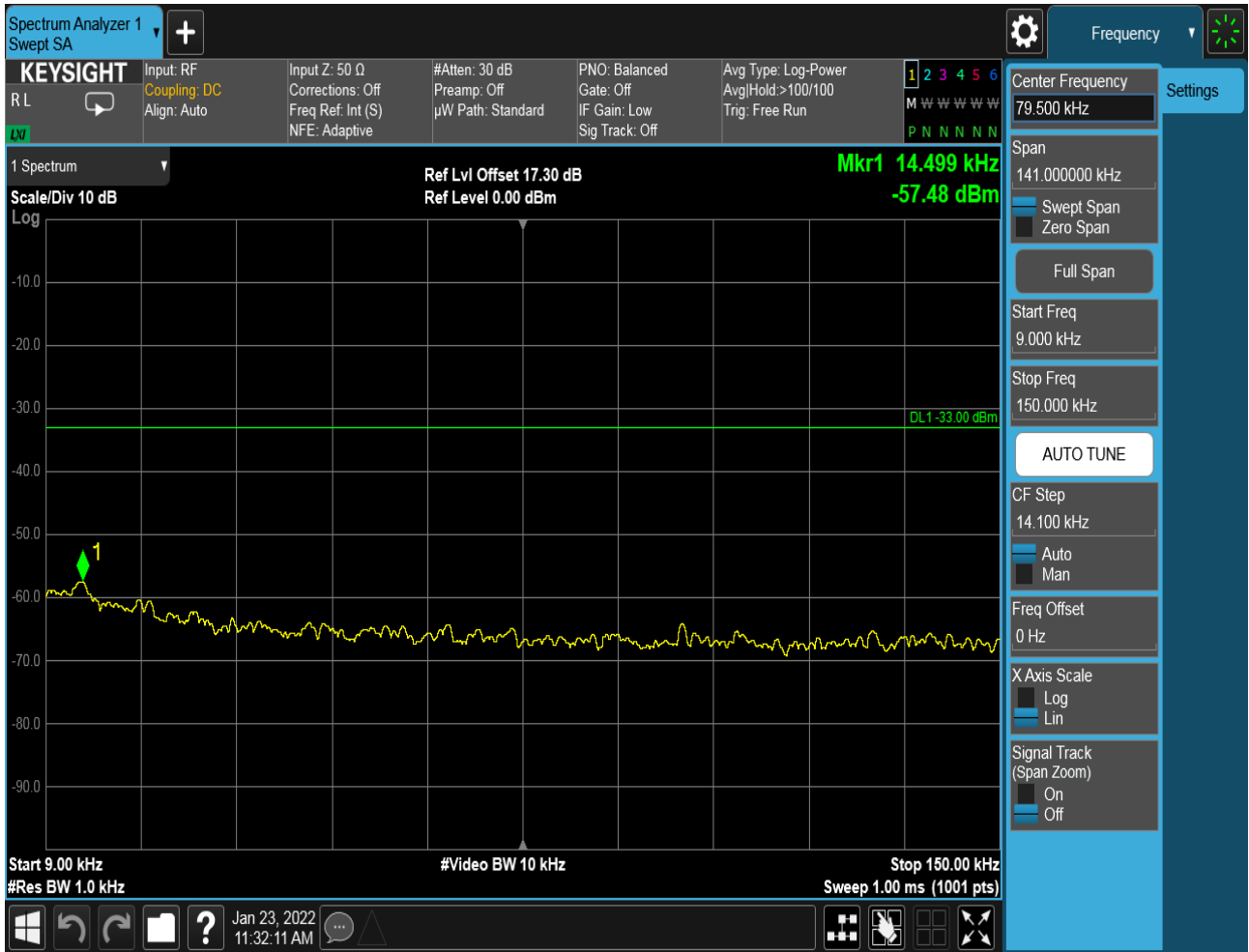


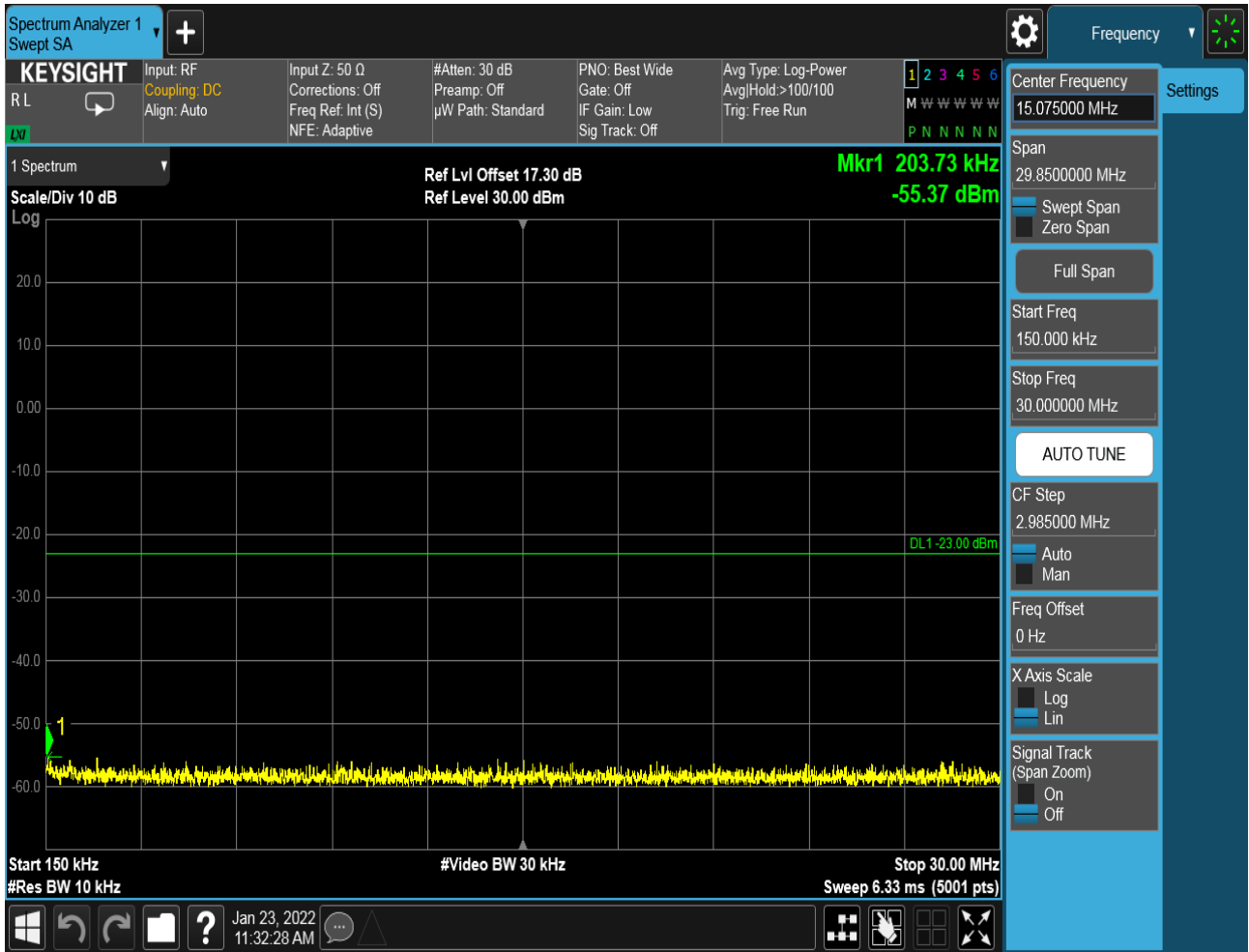


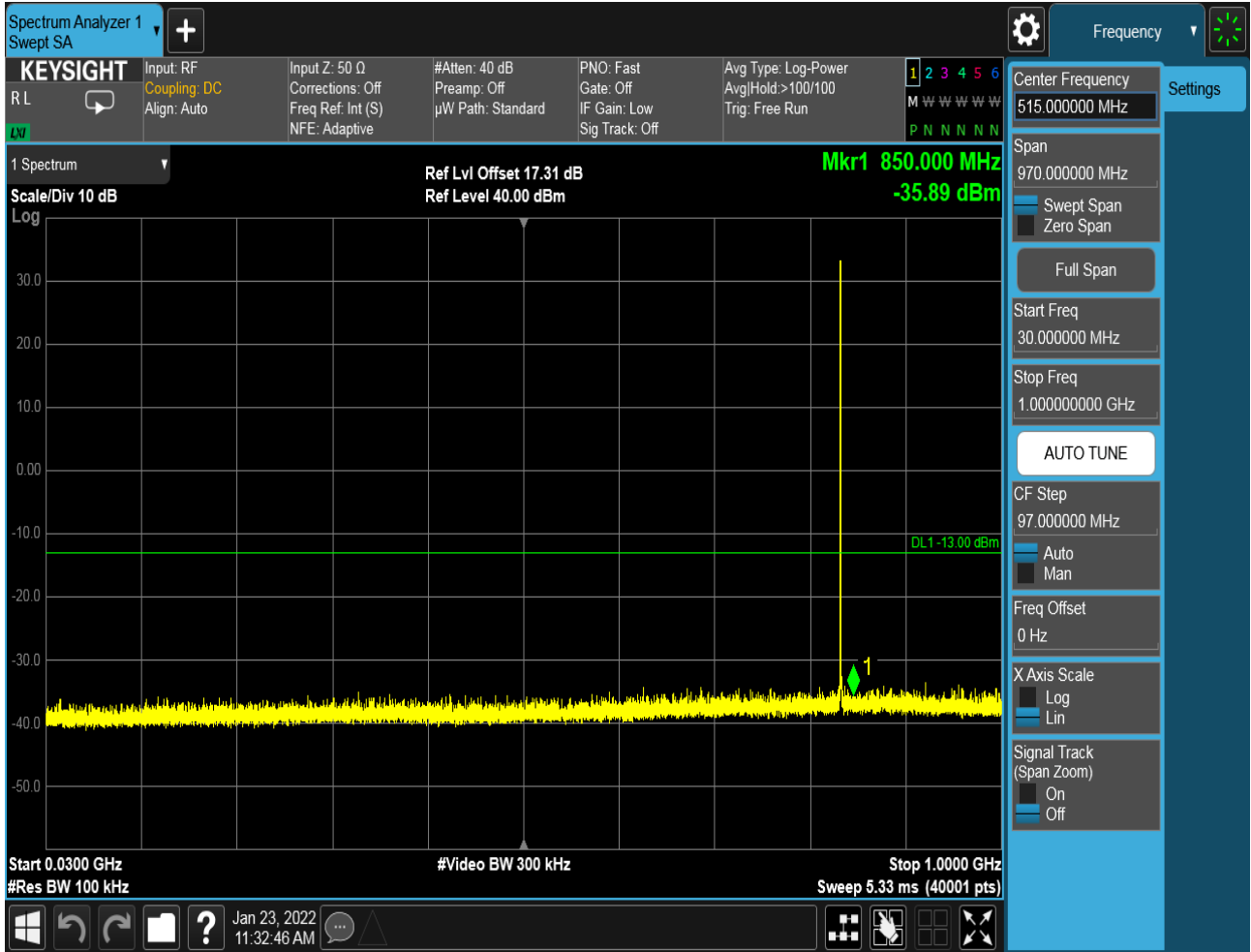


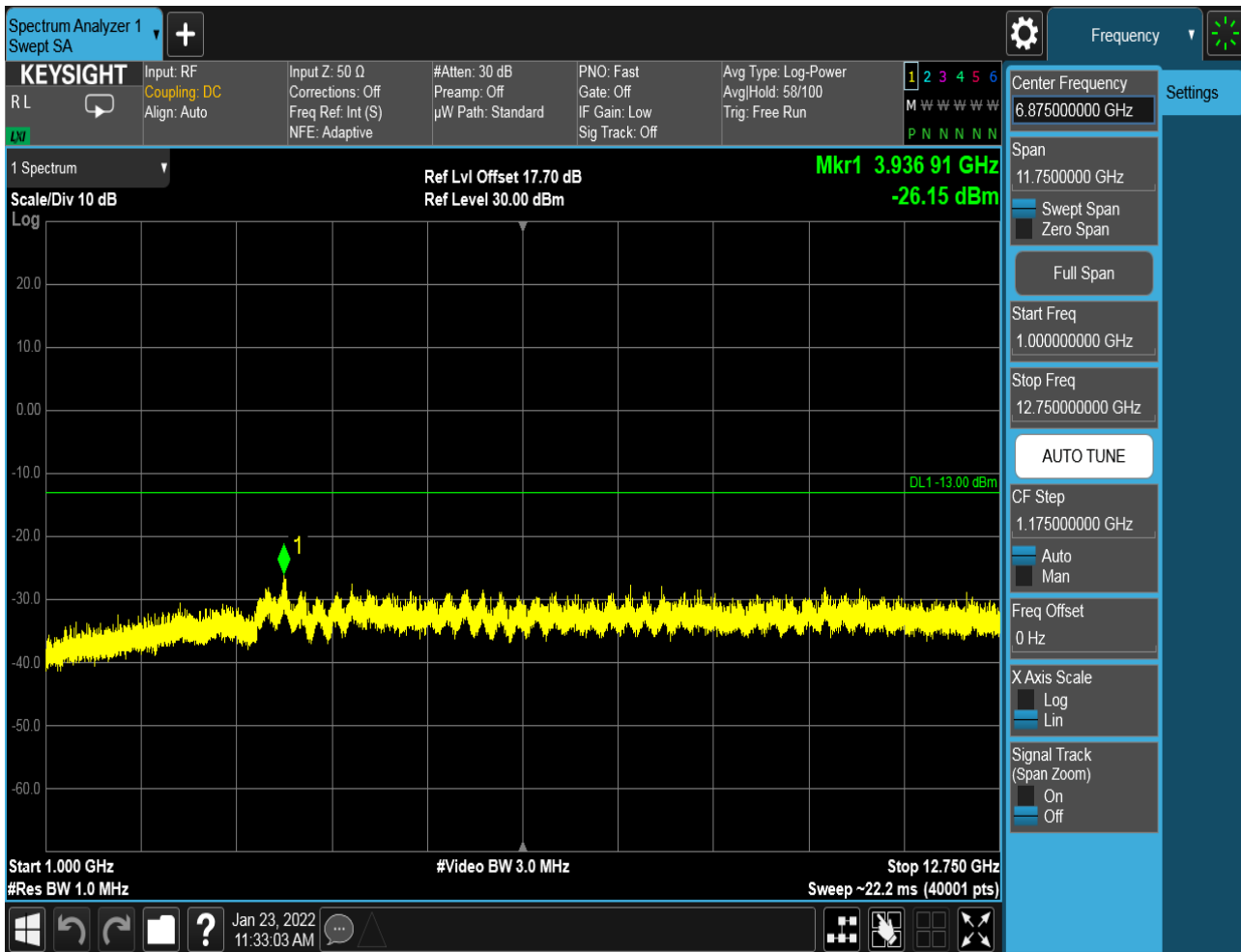


6.1.1.1.2 Test Channel = MCH



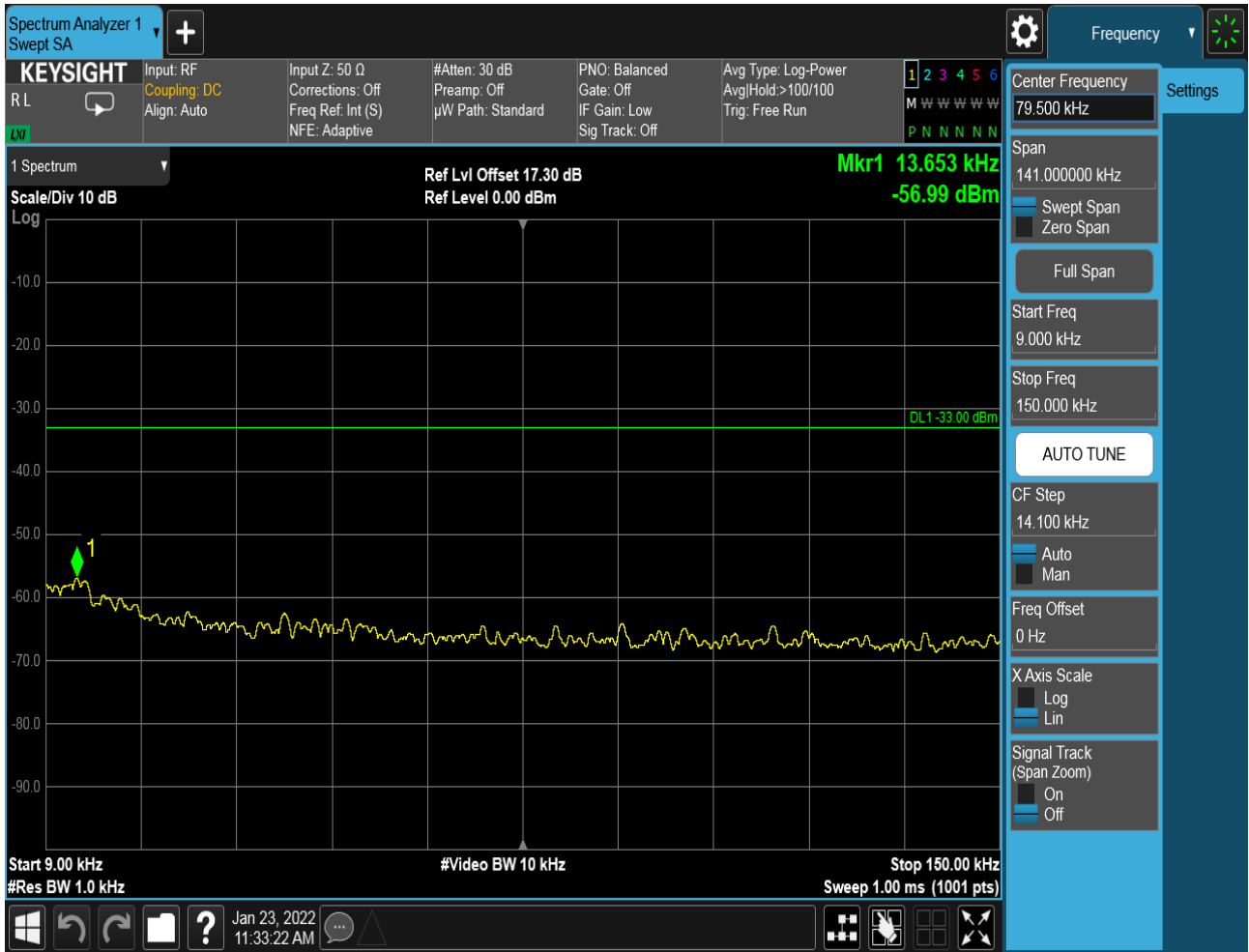


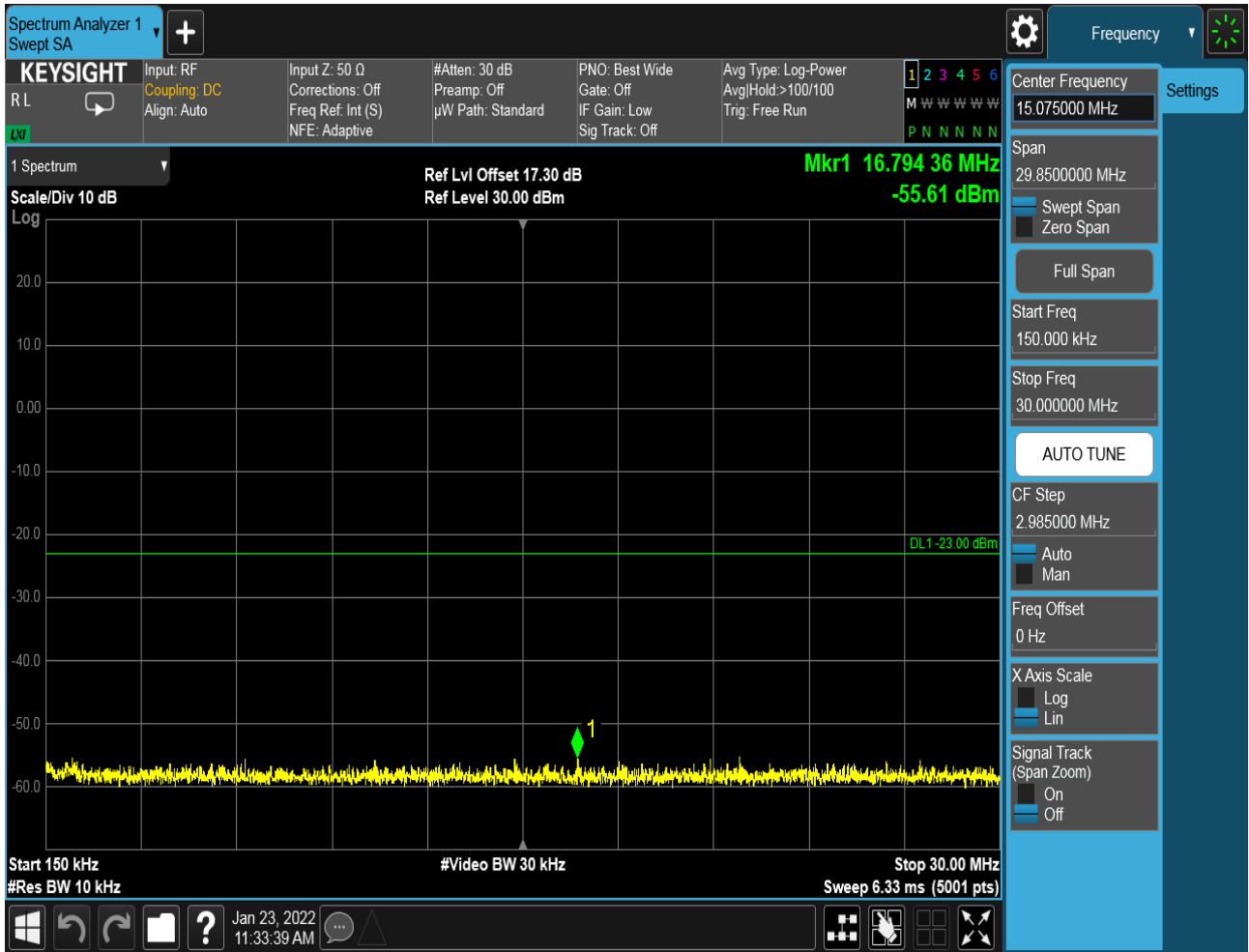


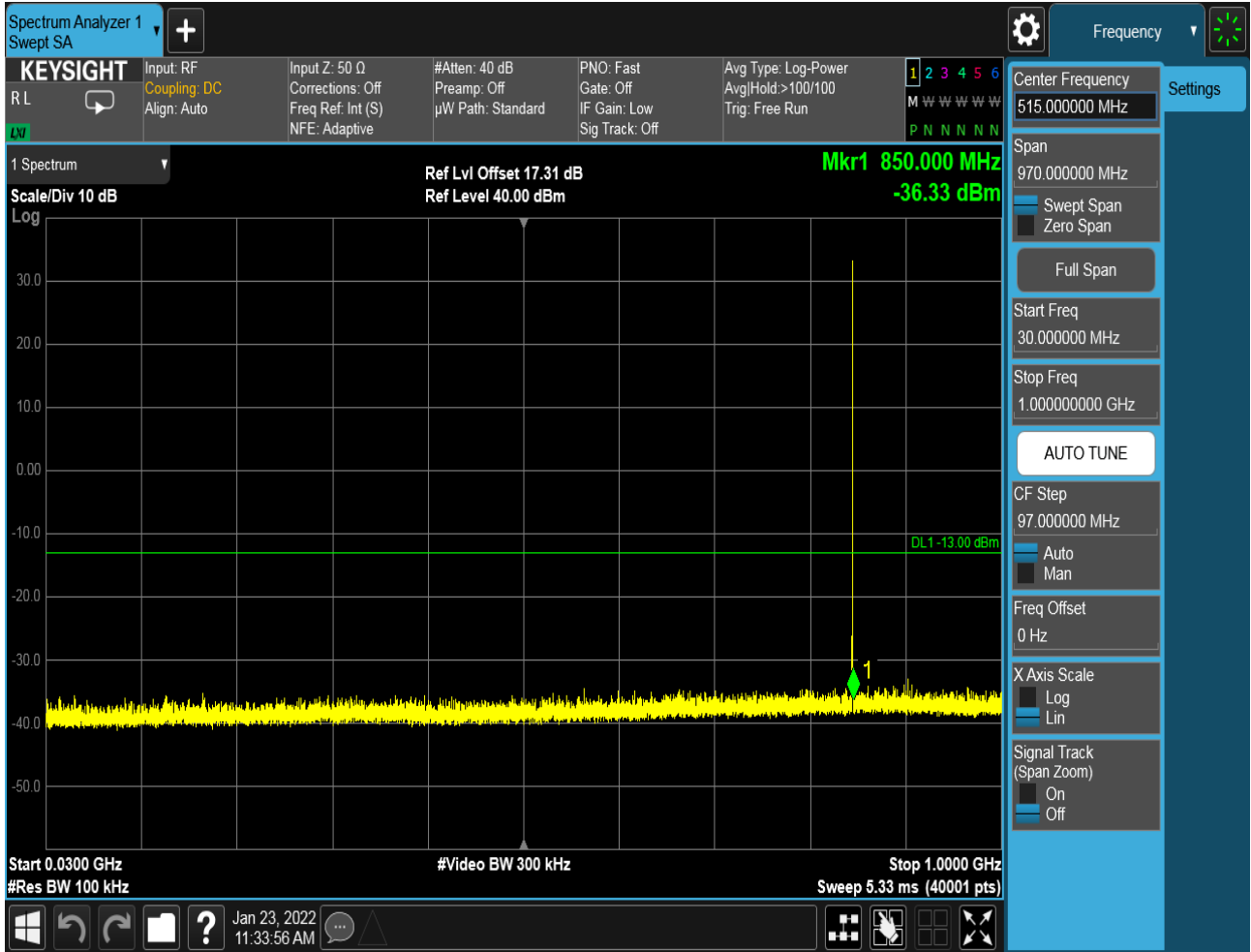


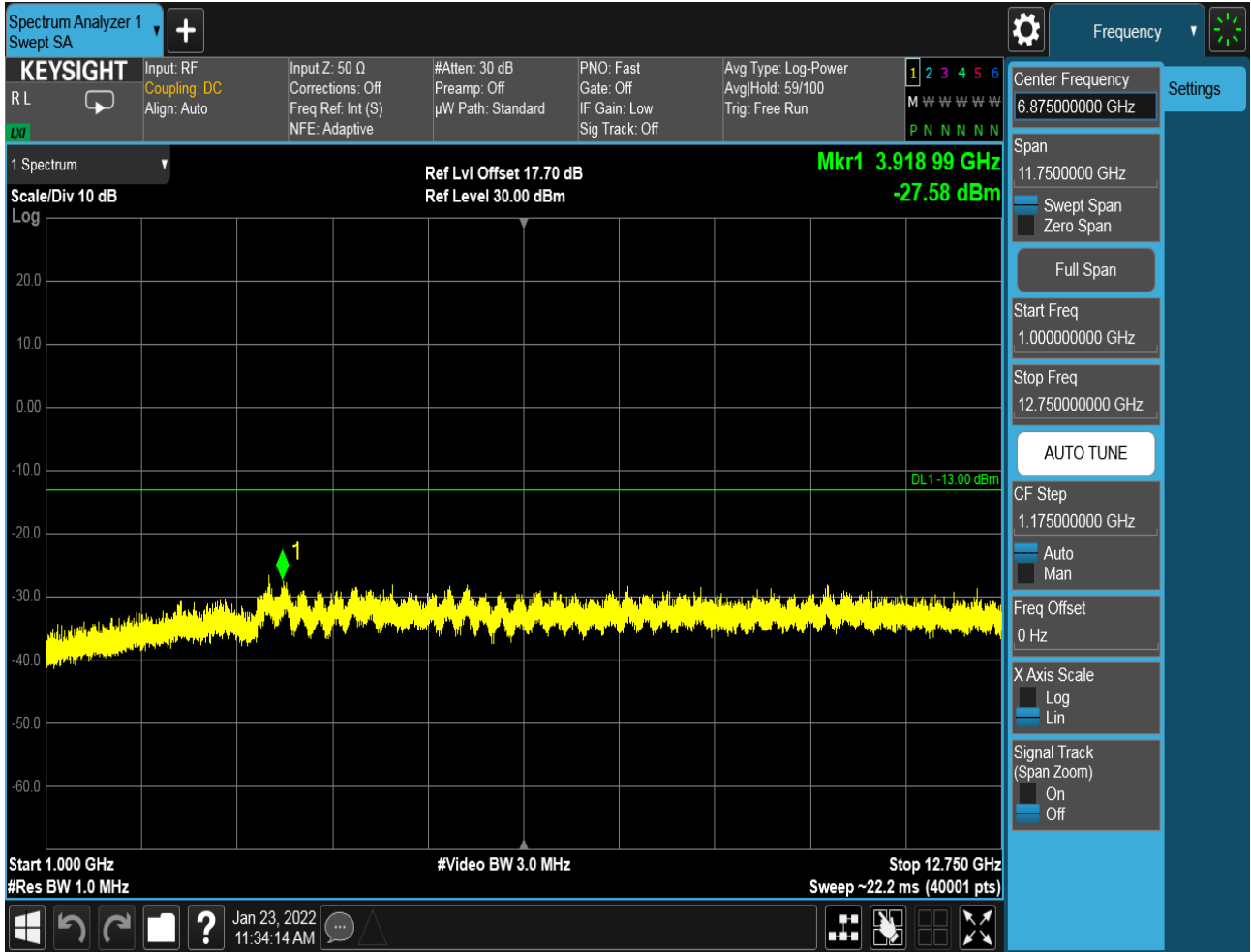


6.1.1.1.3 Test Channel = HCH





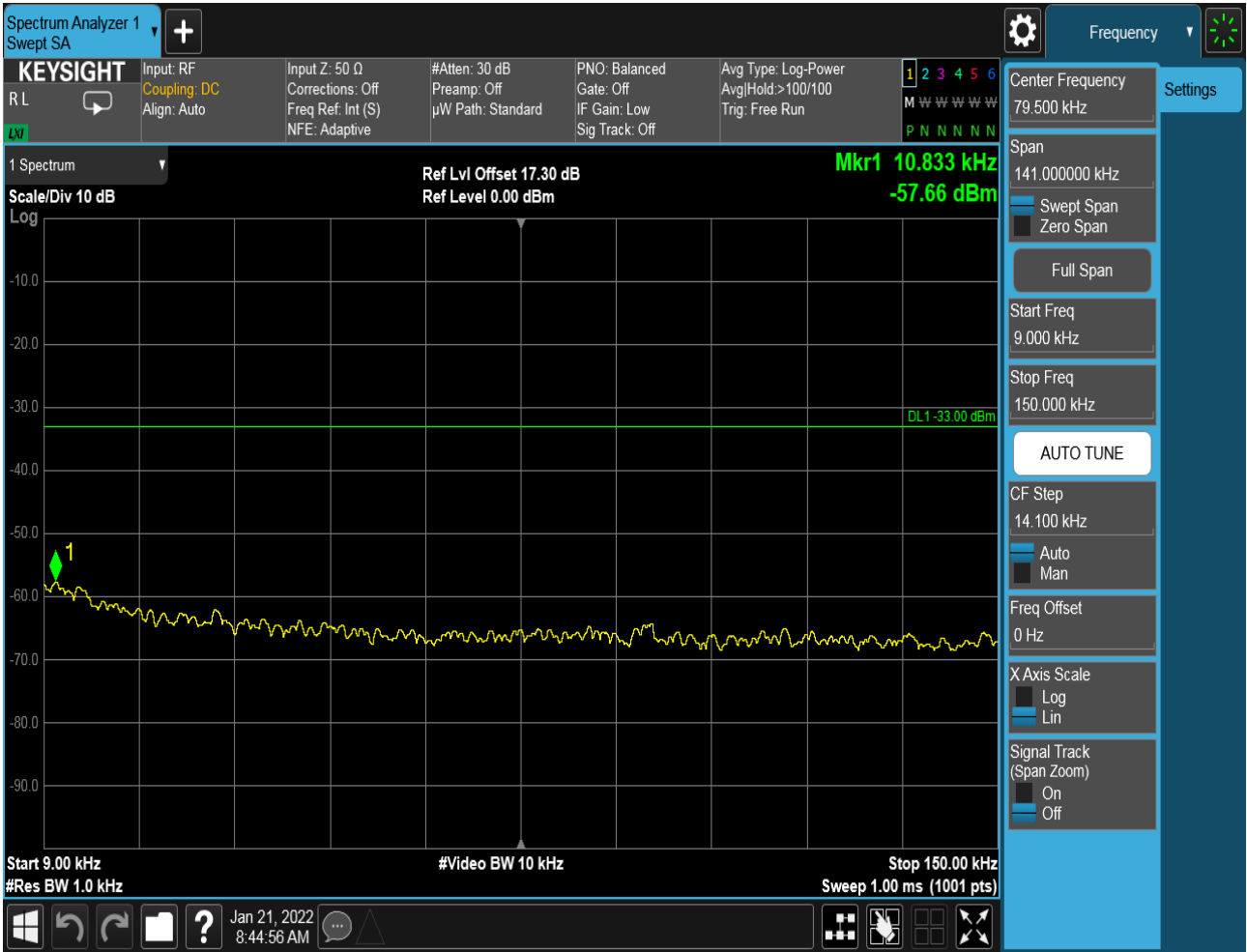


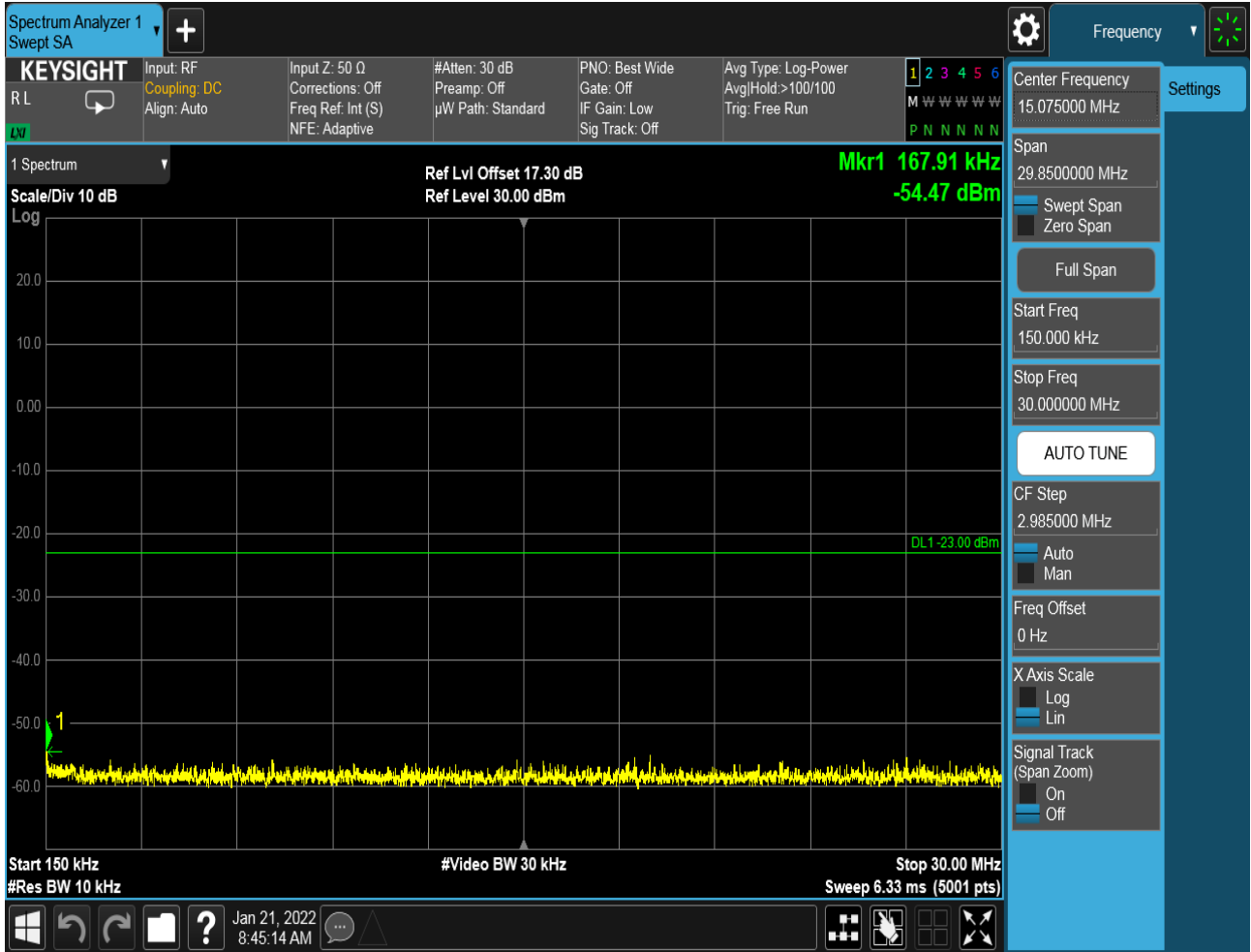


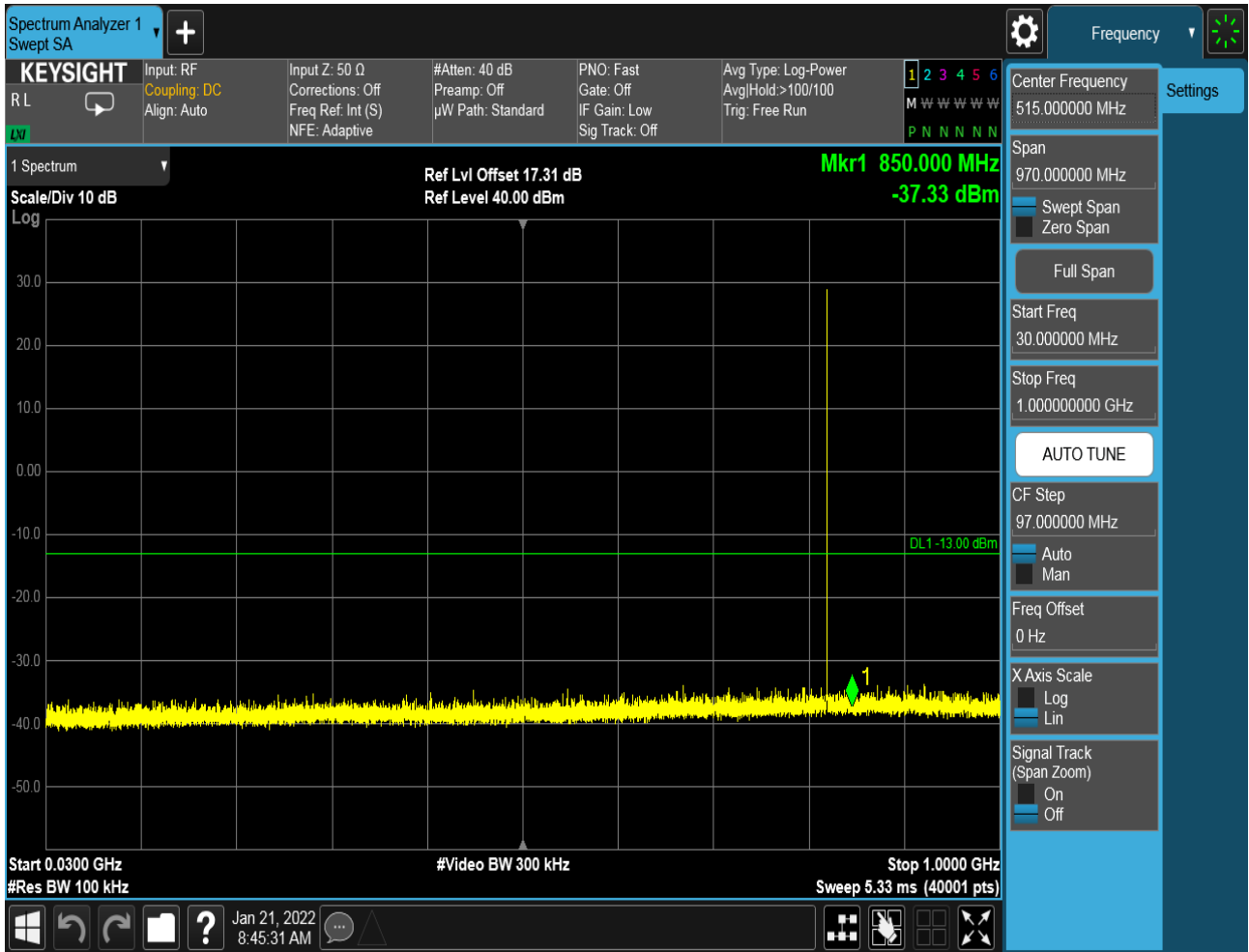


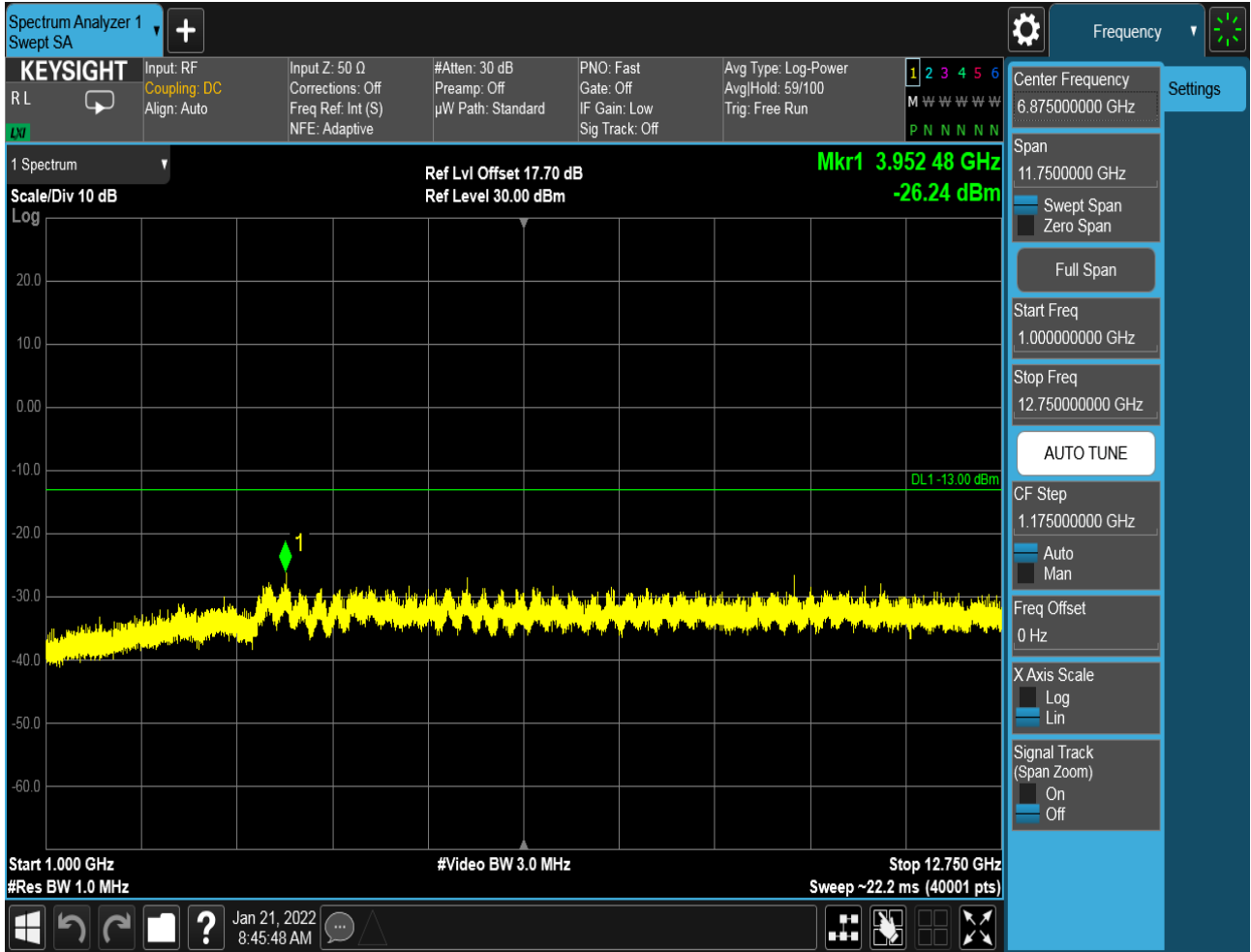
6.1.1.2 Test Mode = GSM/TM2

6.1.1.2.1 Test Channel = LCH



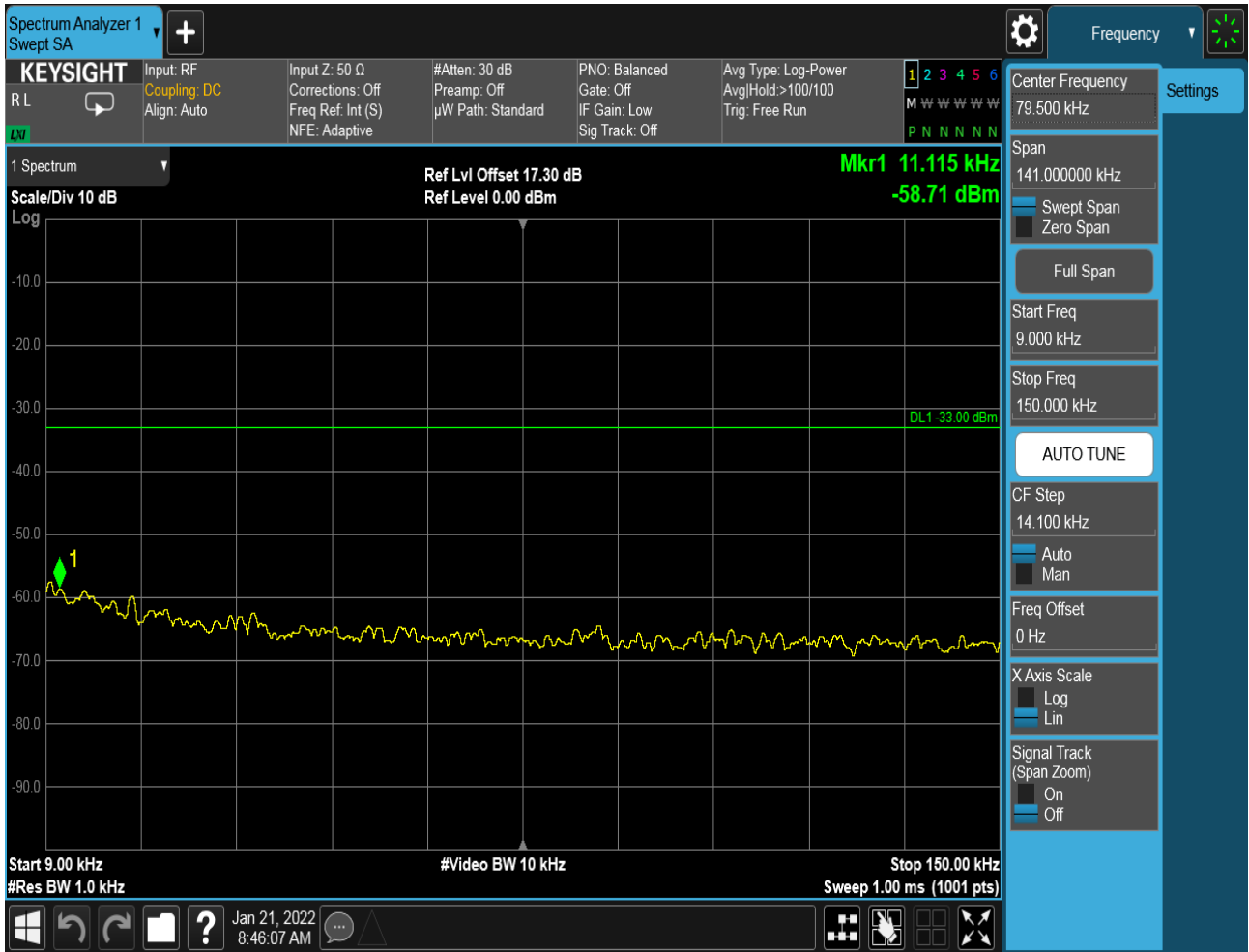


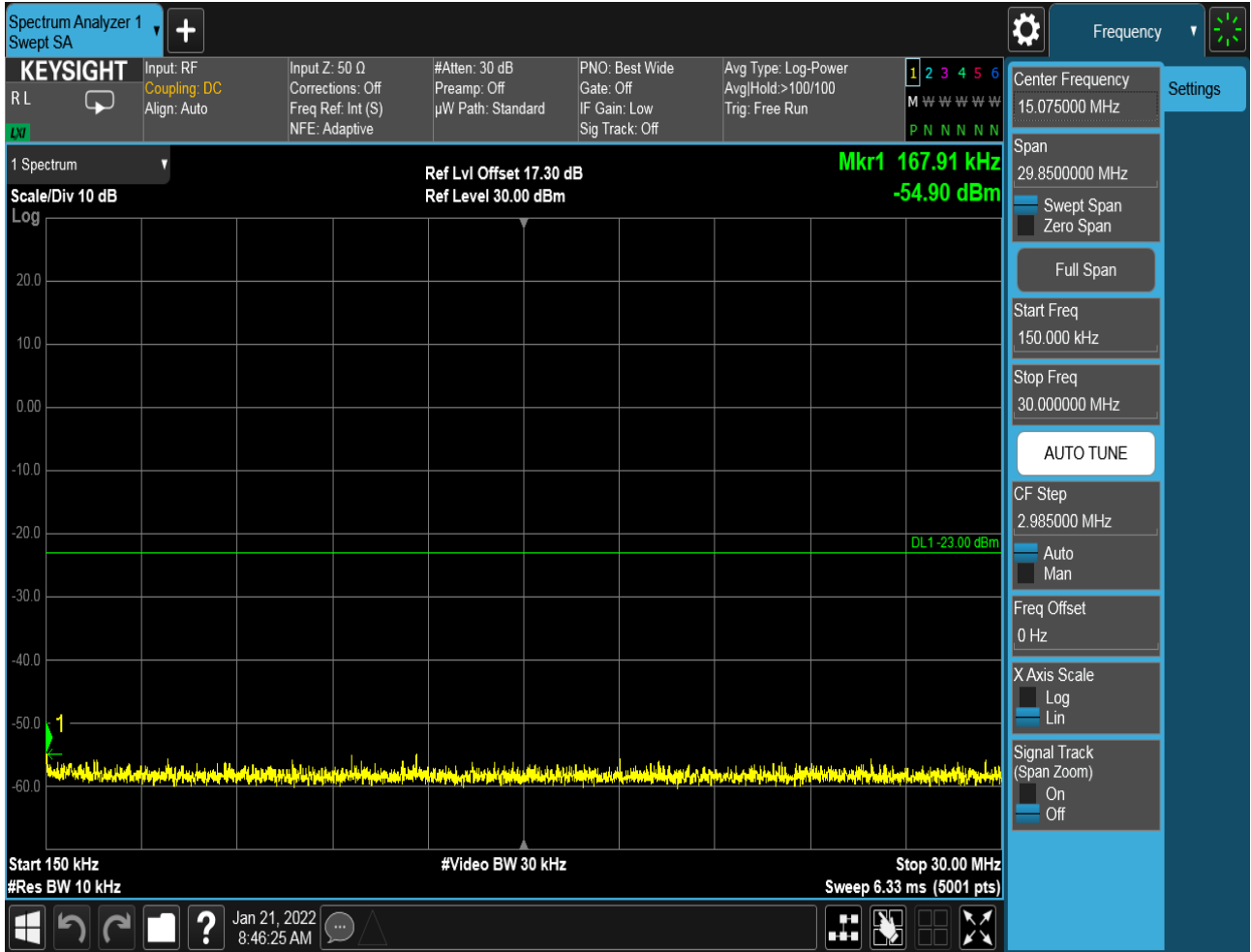


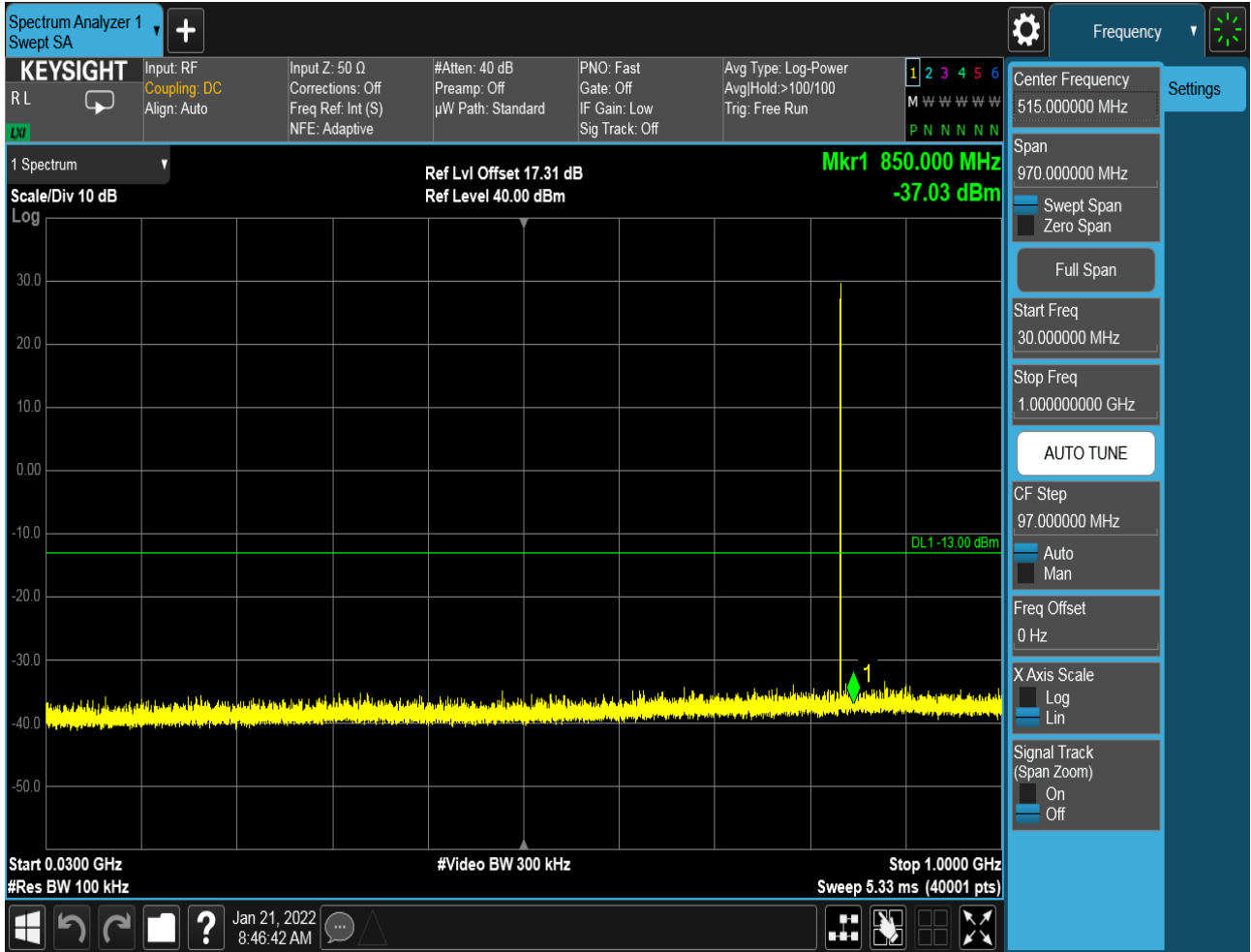


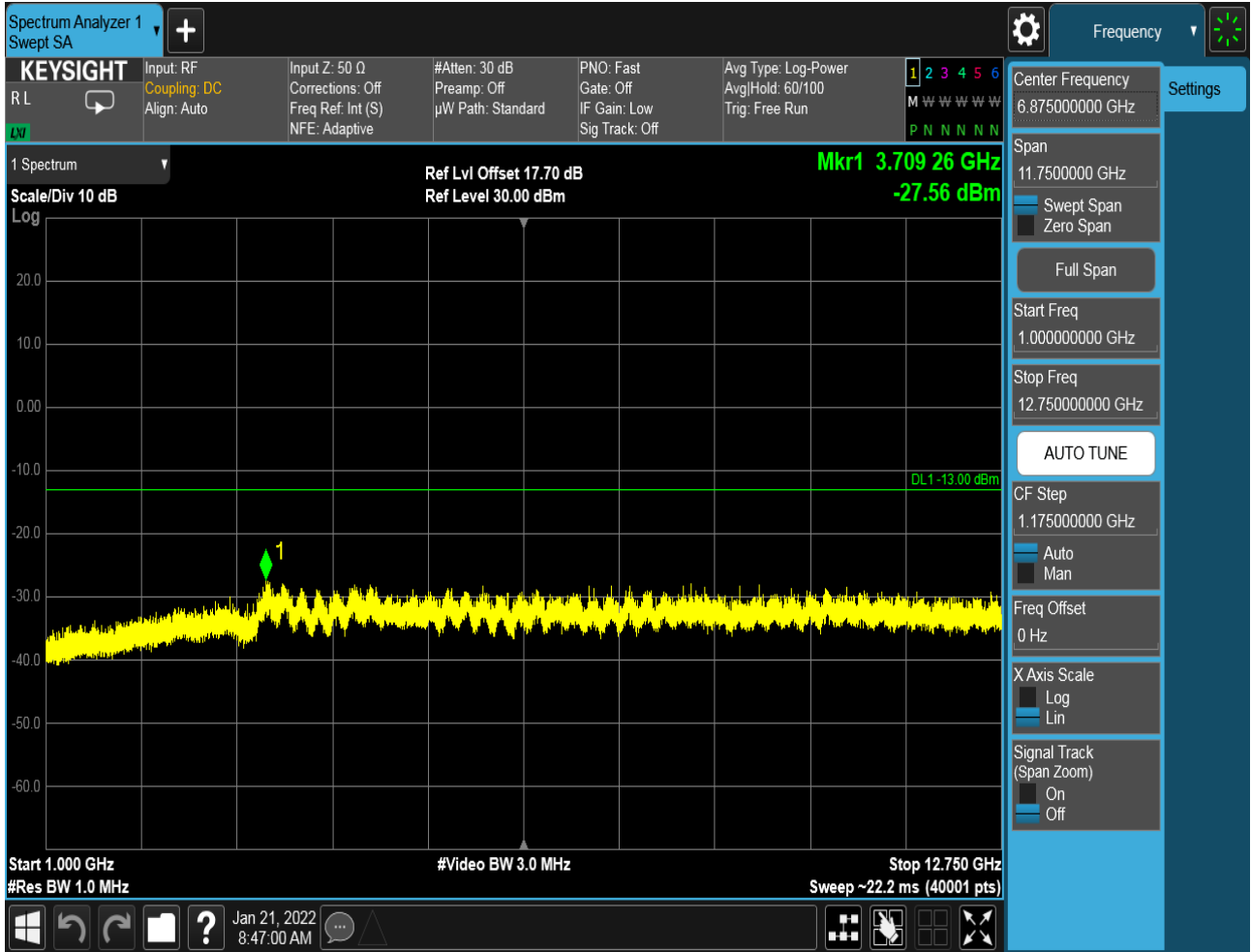


6.1.1.2.2 Test Channel = MCH



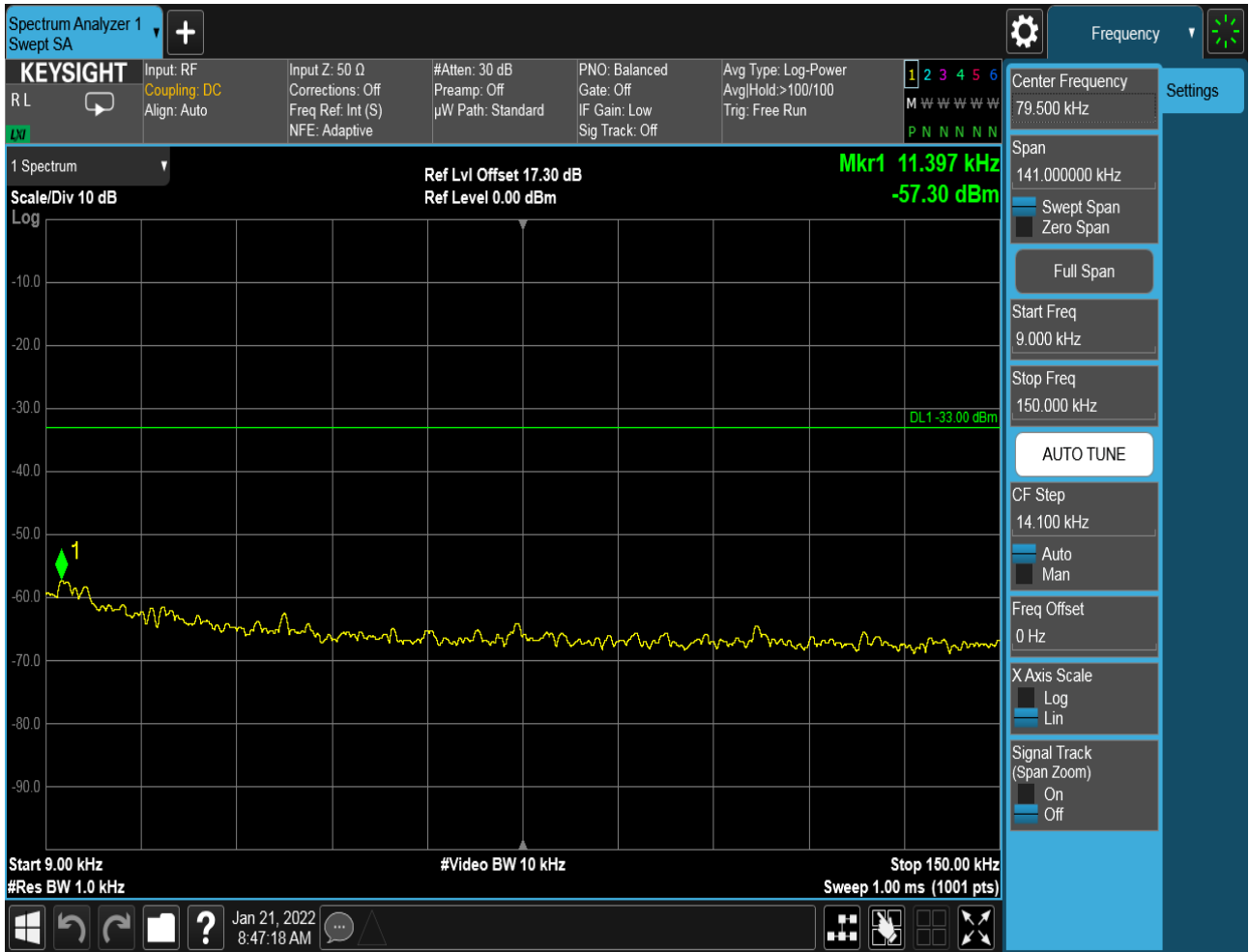


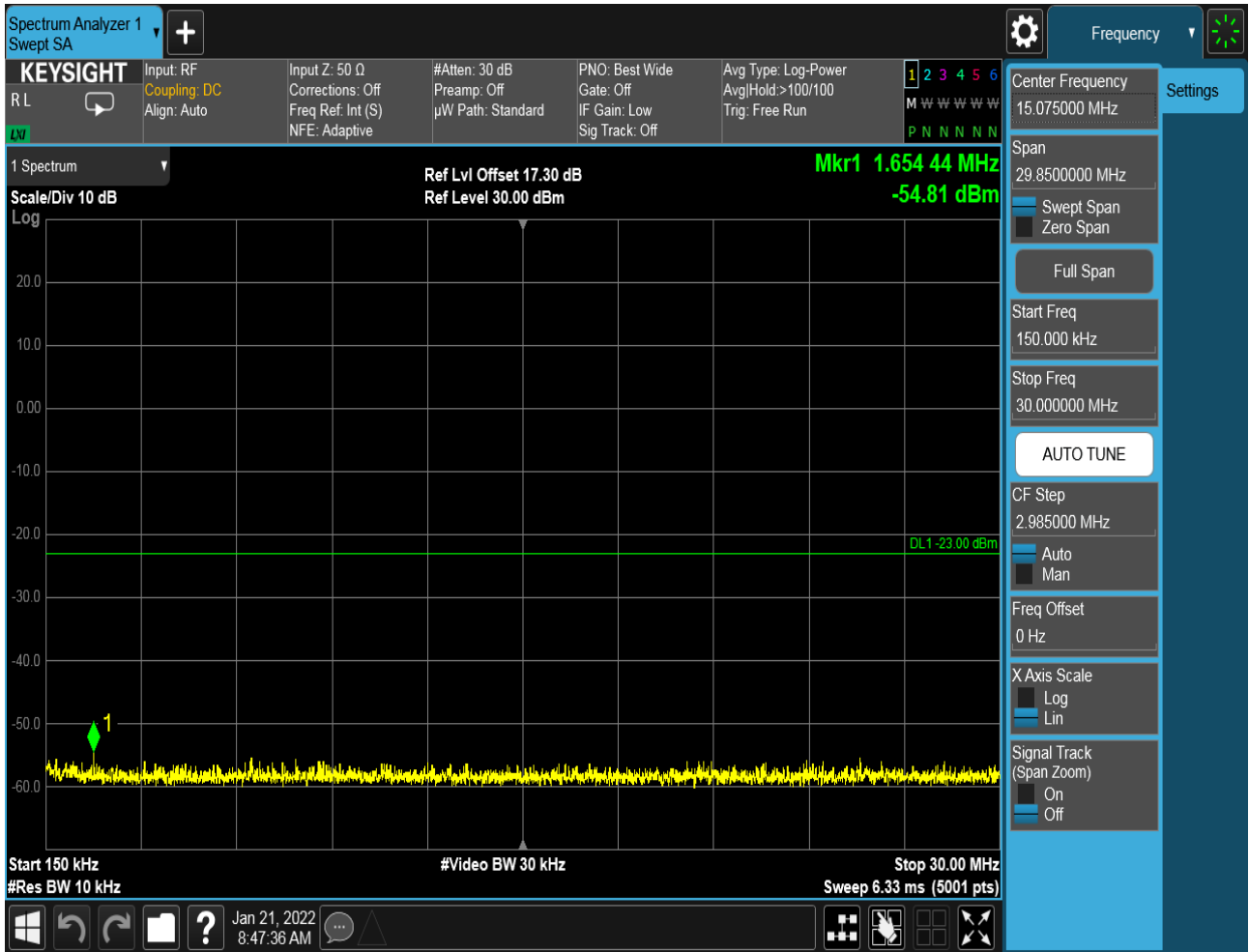


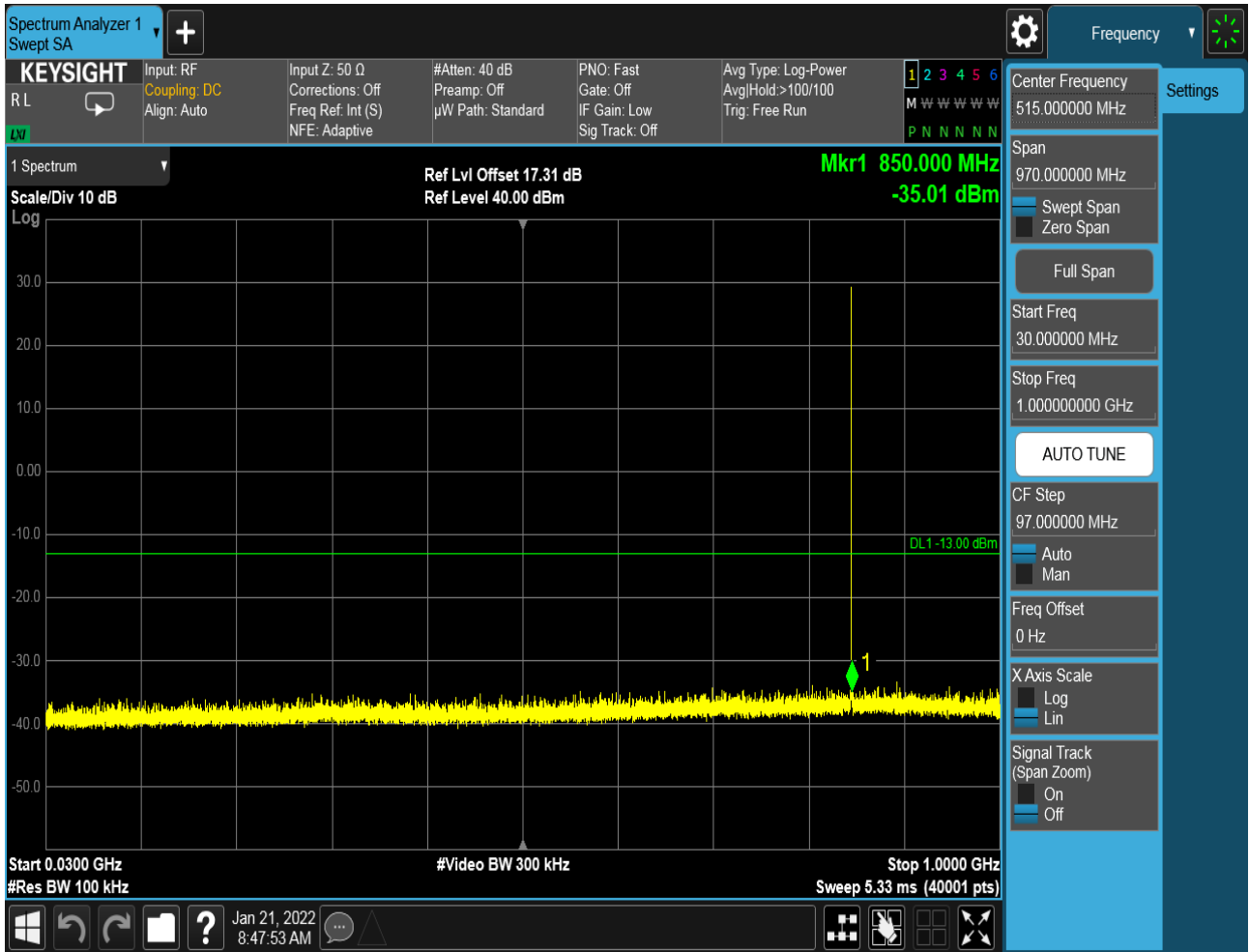


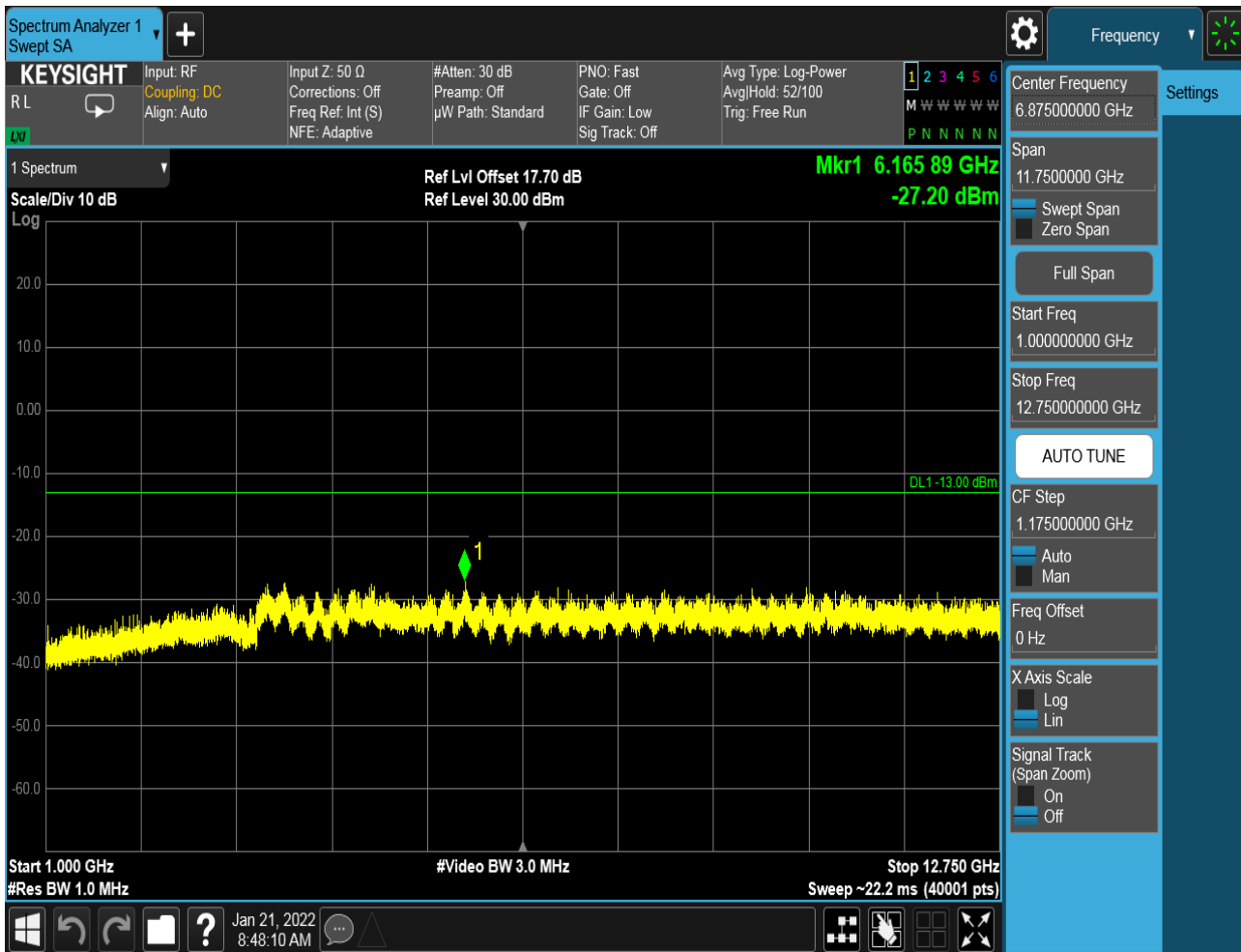


6.1.1.2.3 Test Channel = HCH







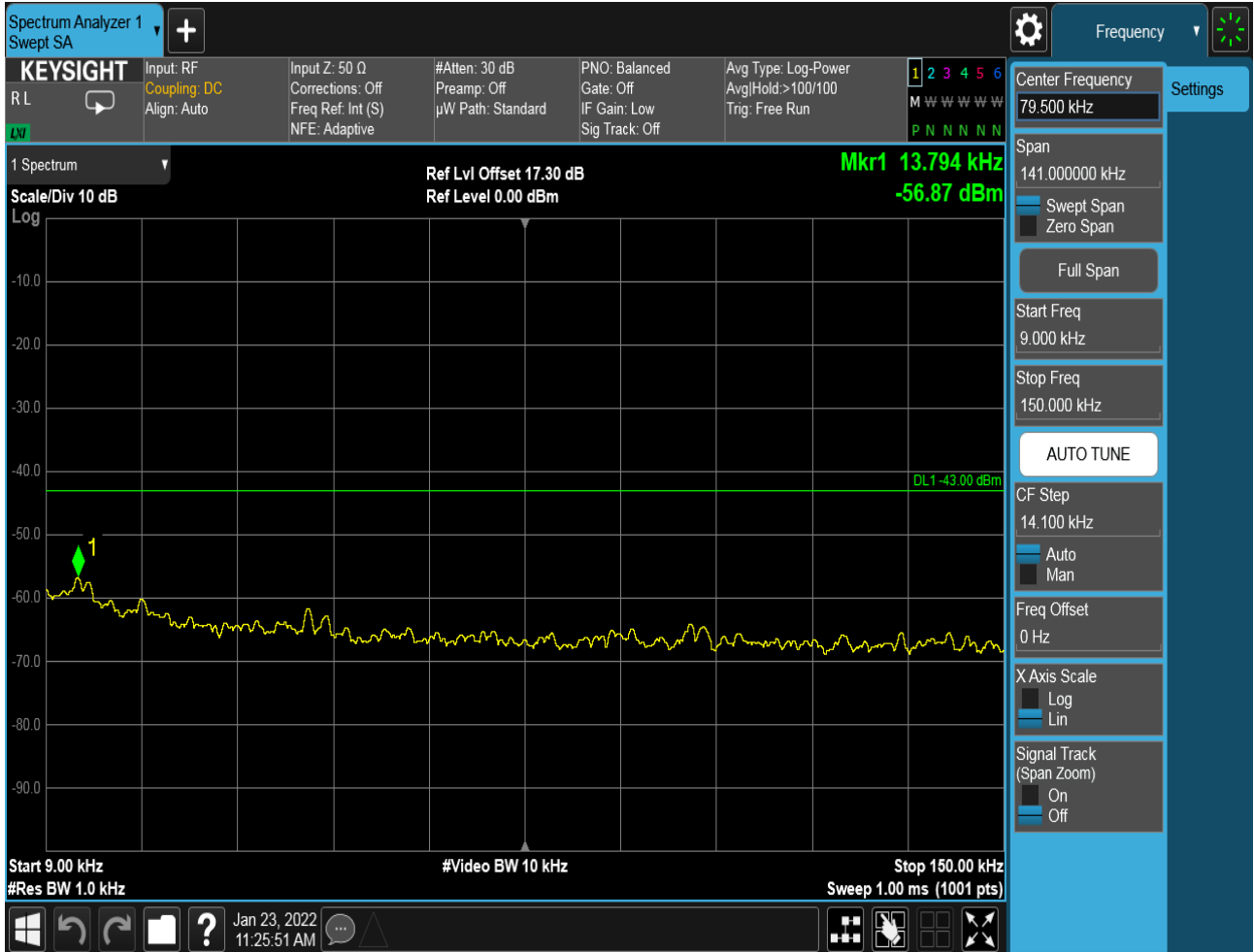


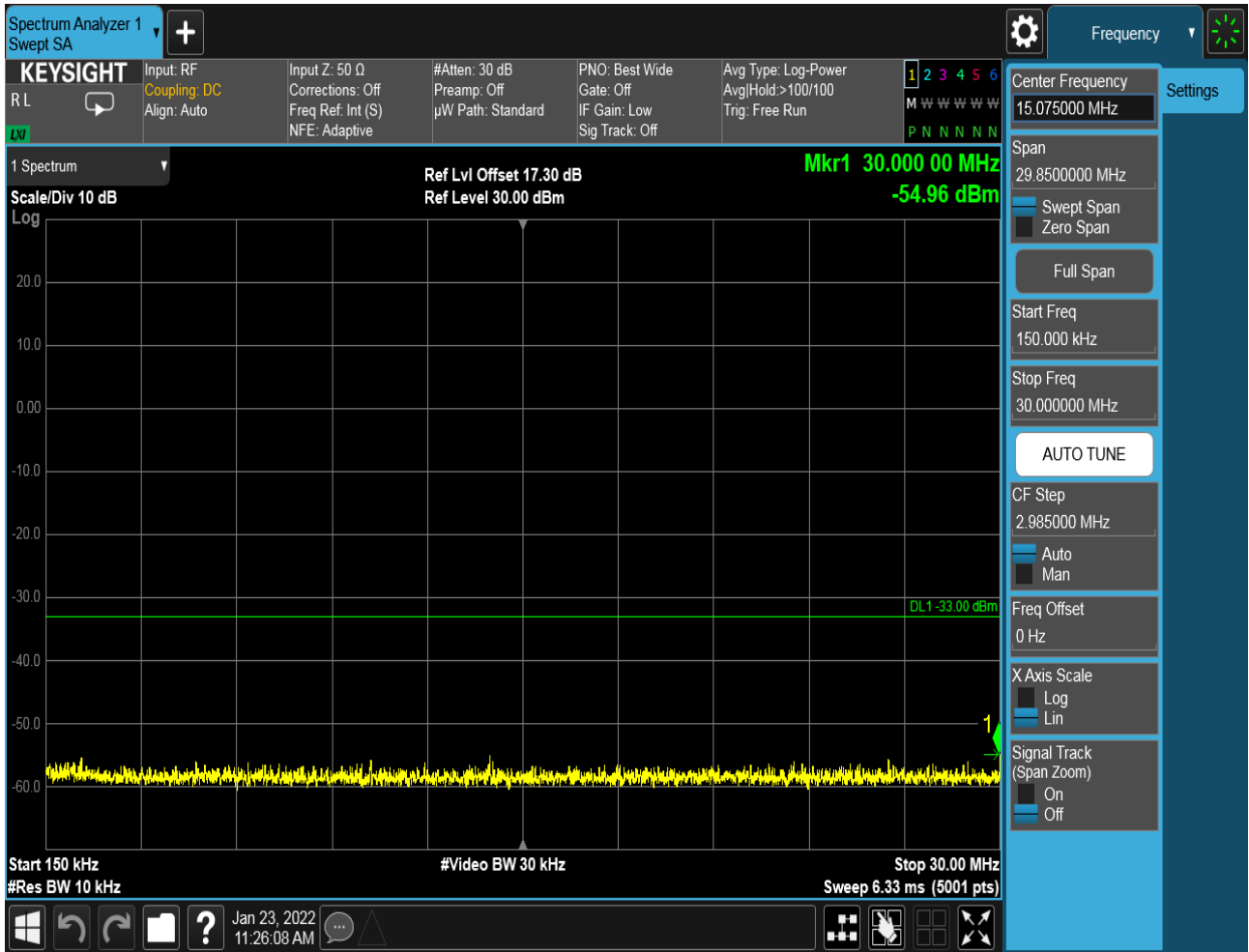


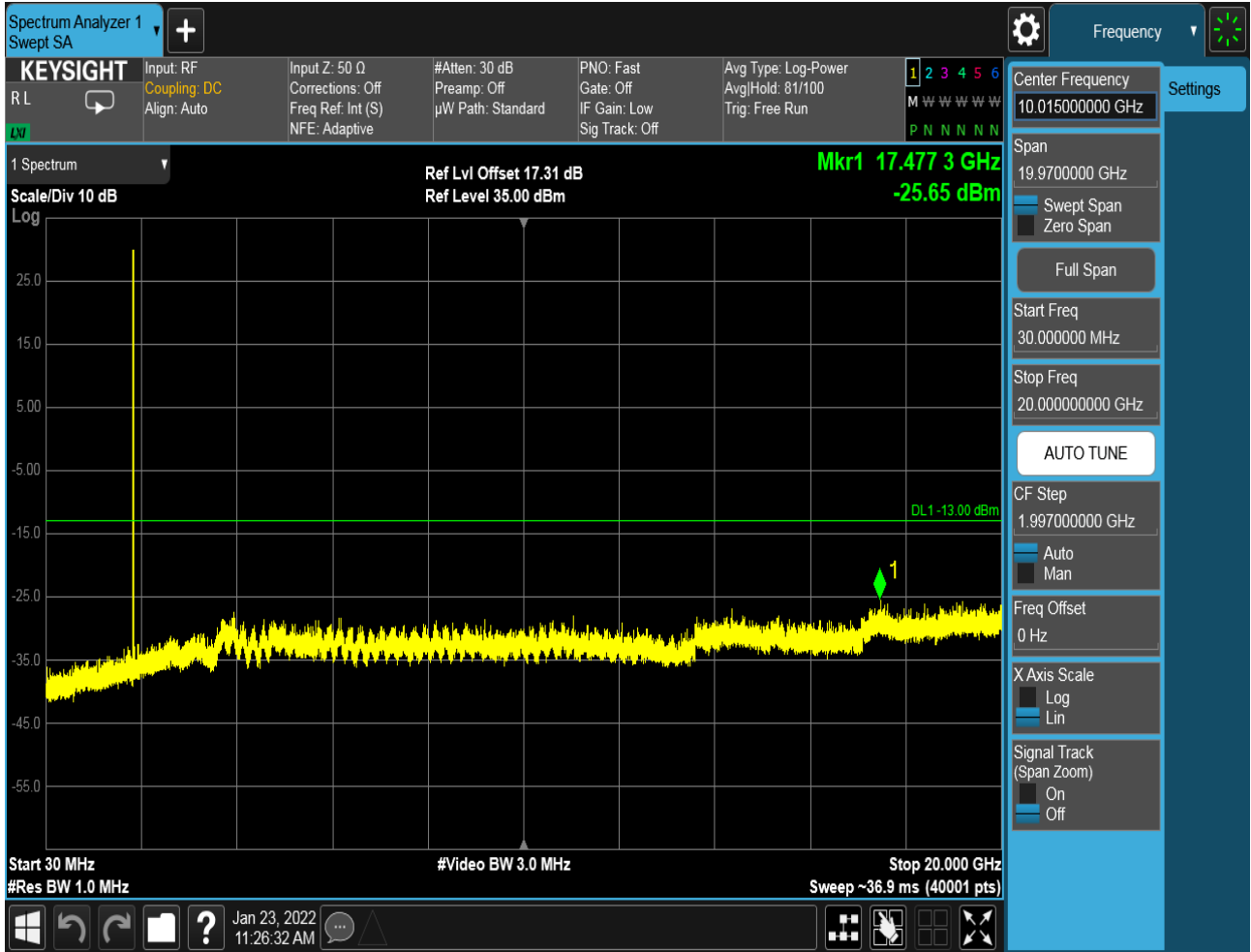
6.1.2 Test Band = PCS1900

6.1.2.1 Test Mode = GSM/TM1

6.1.2.1.1 Test Channel = LCH

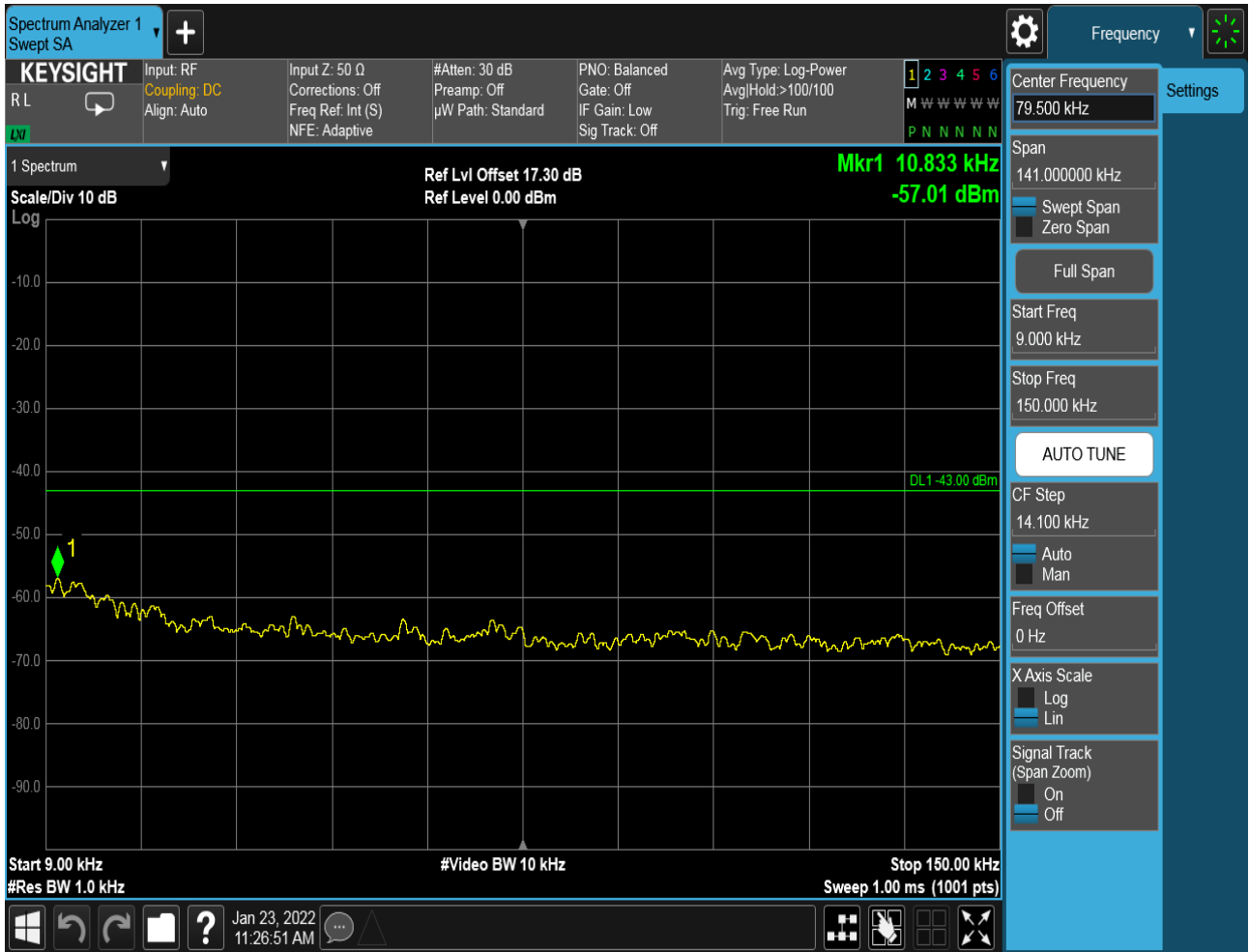


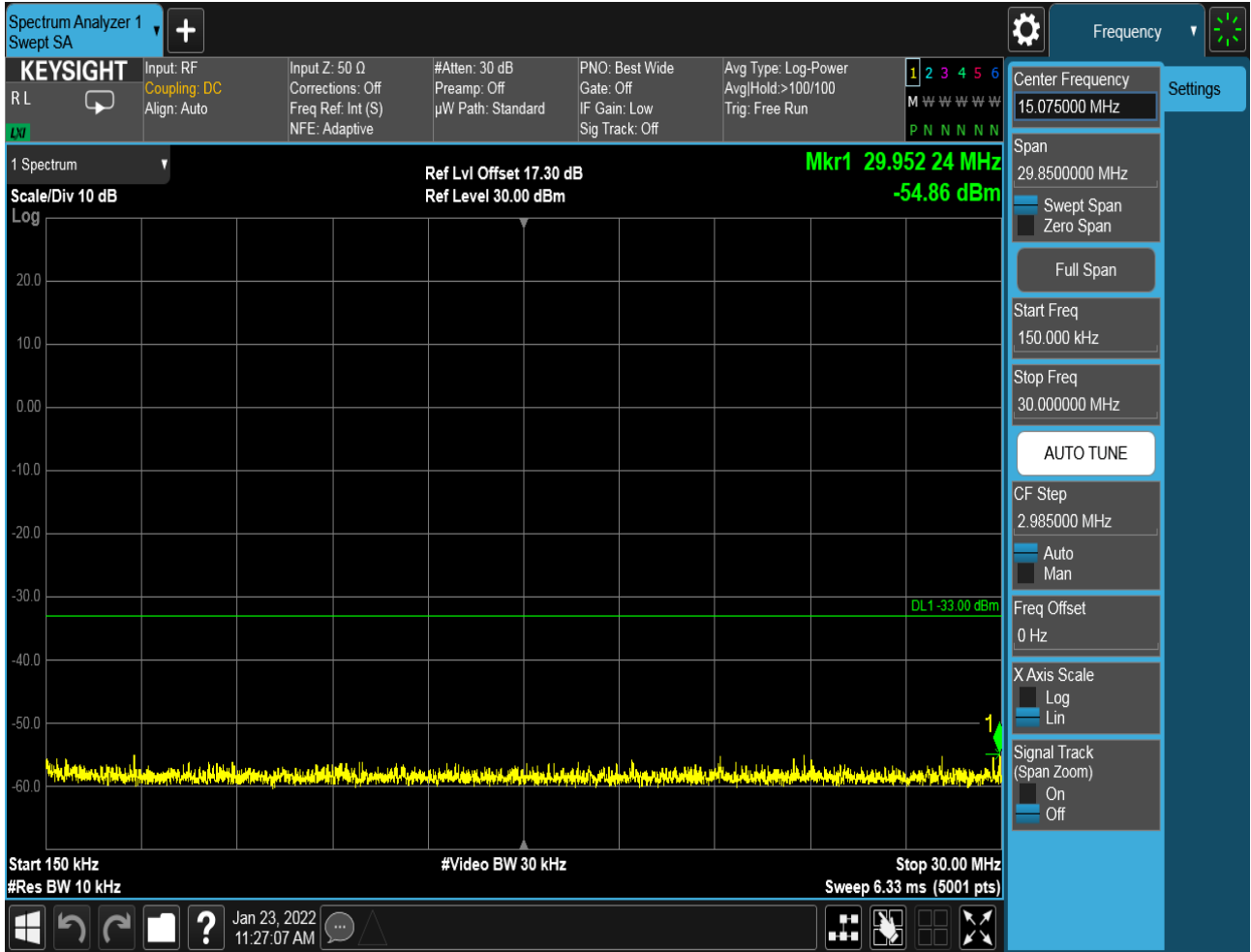


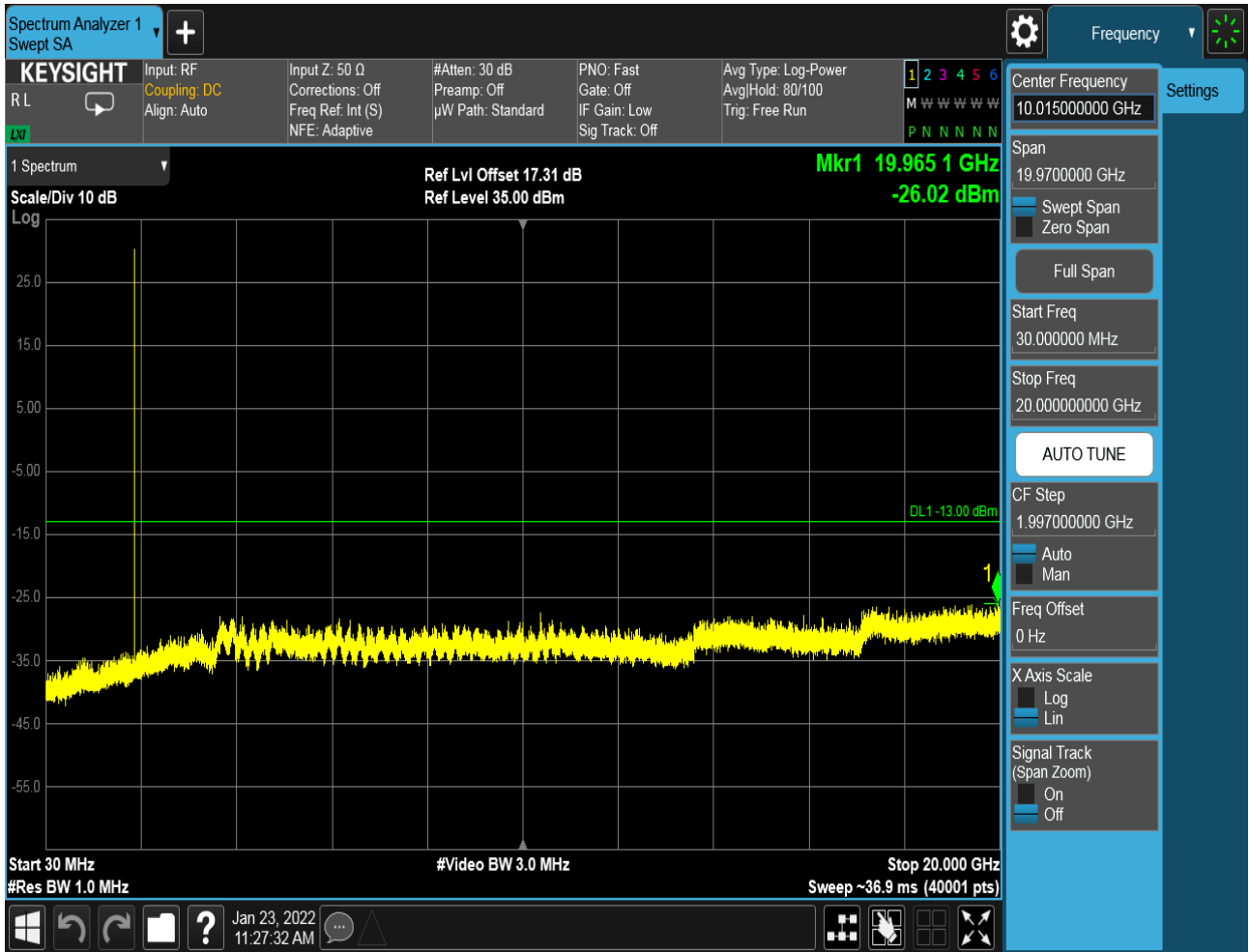




6.1.2.1.2 Test Channel = MCH

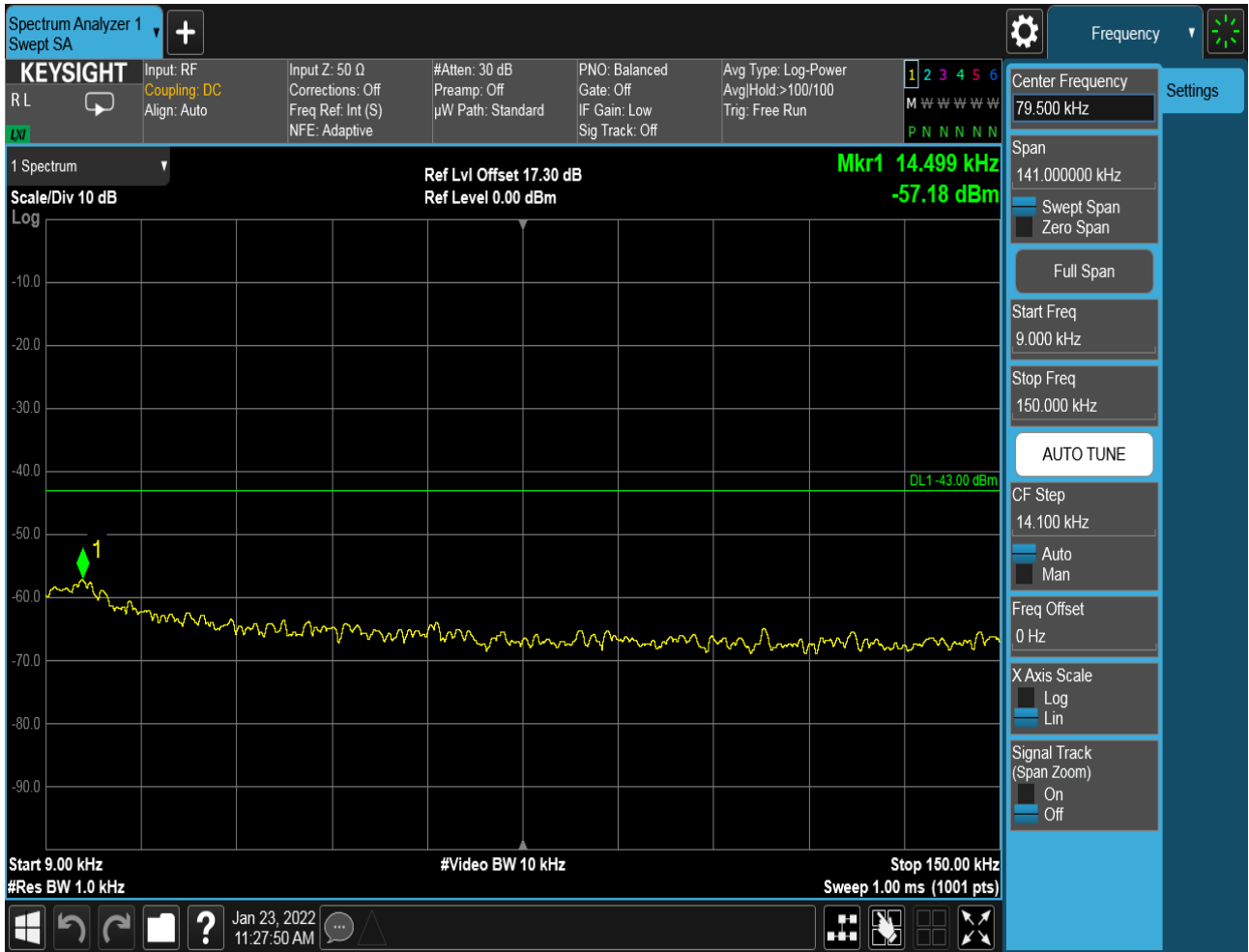


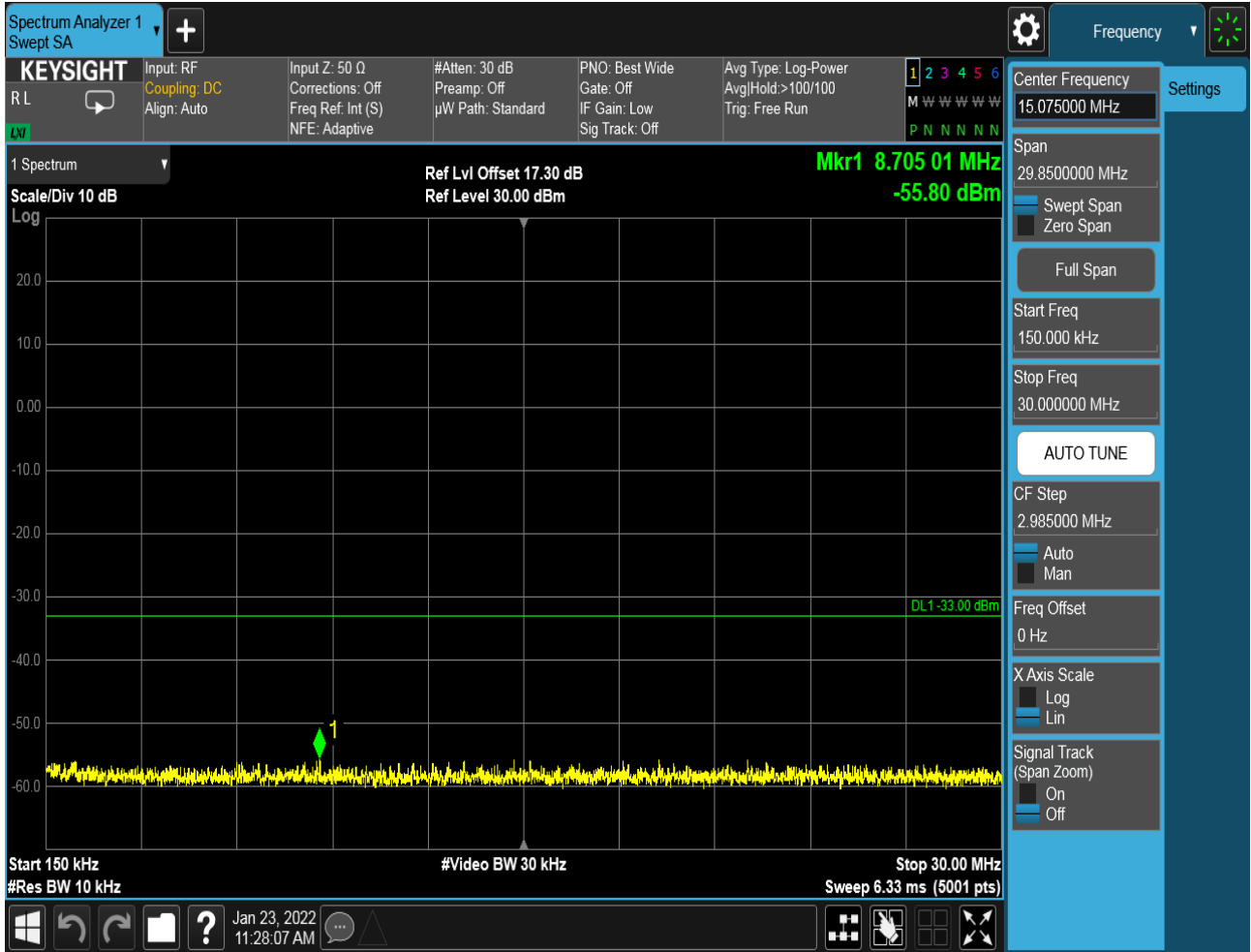


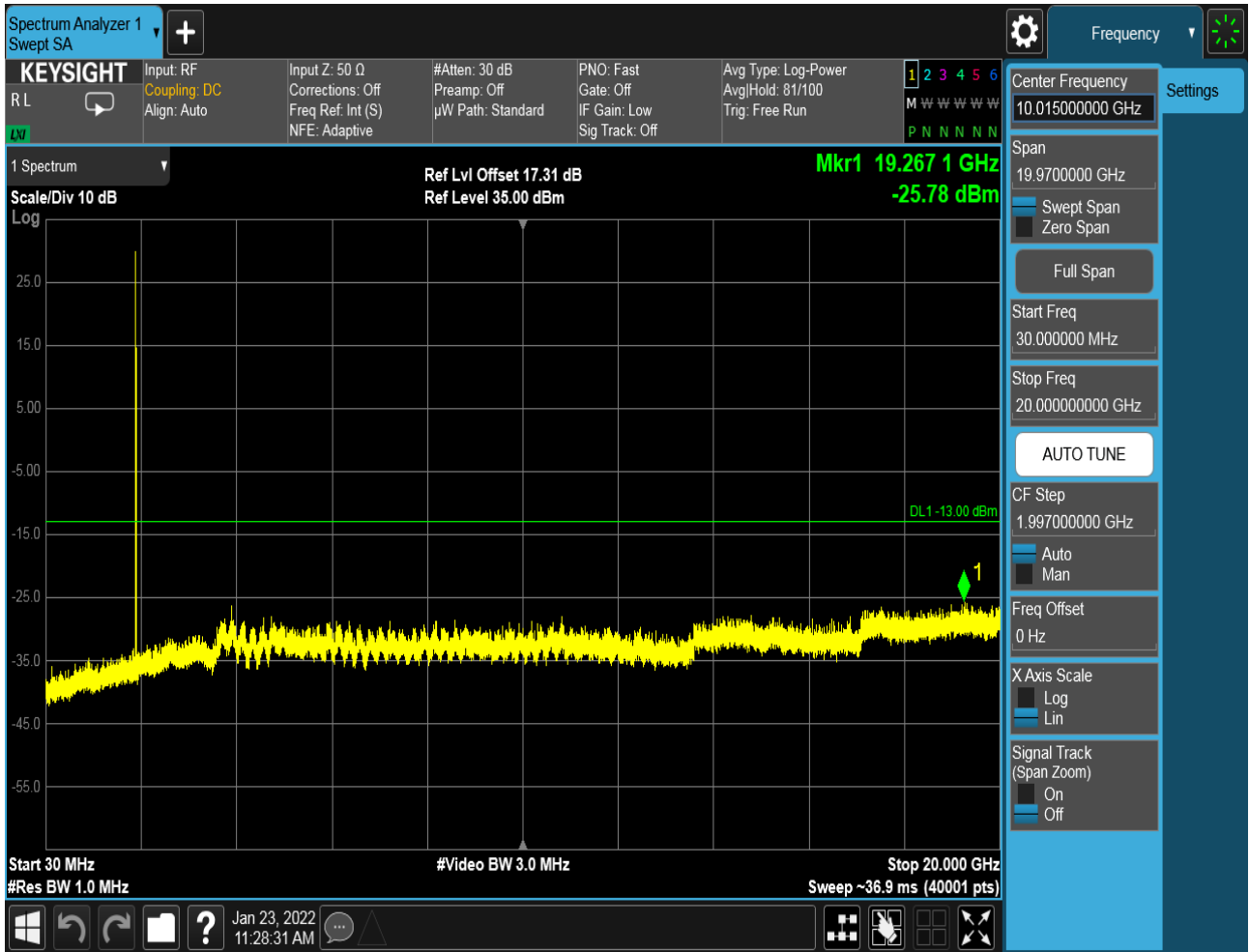




6.1.2.1.3 Test Channel = HCH



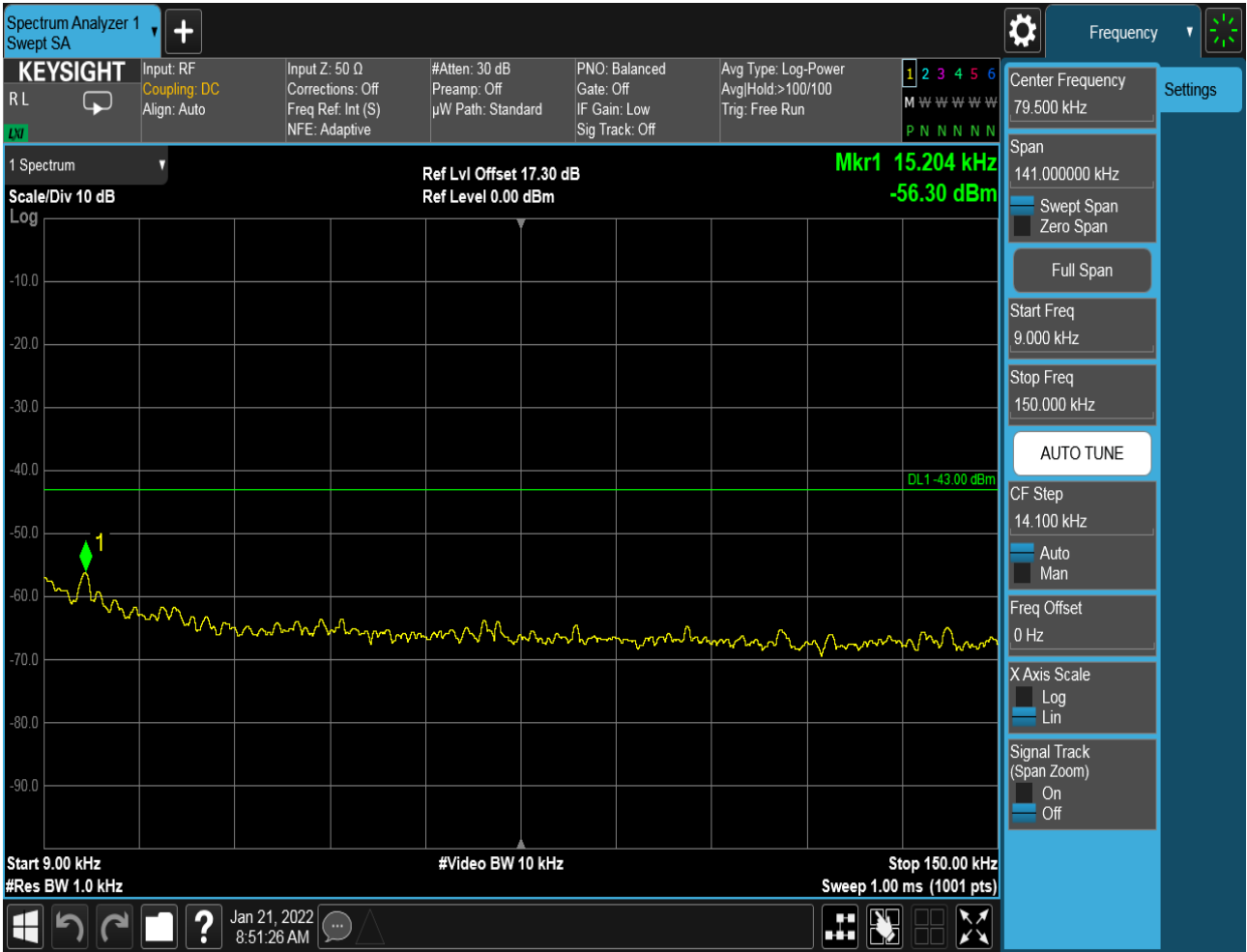


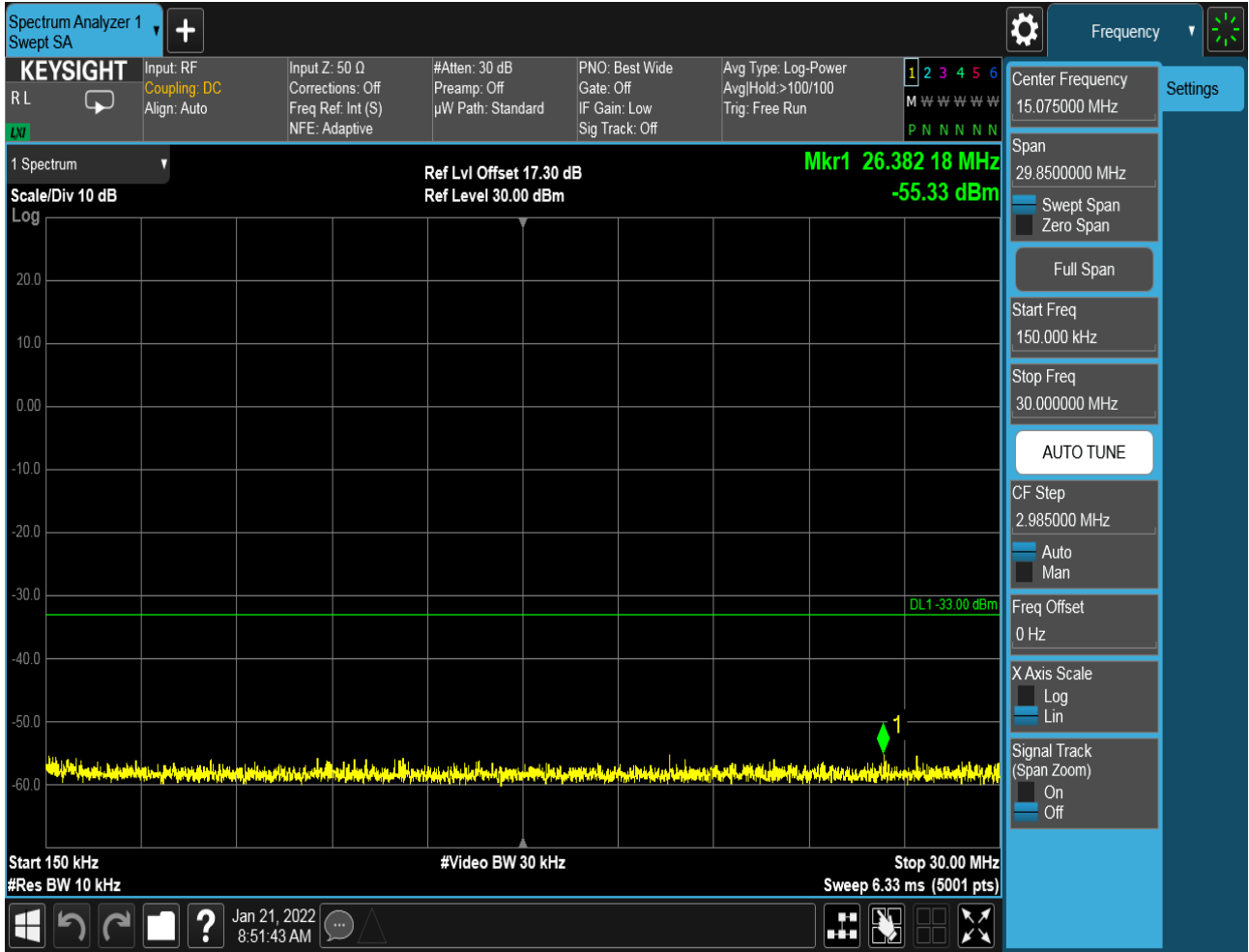


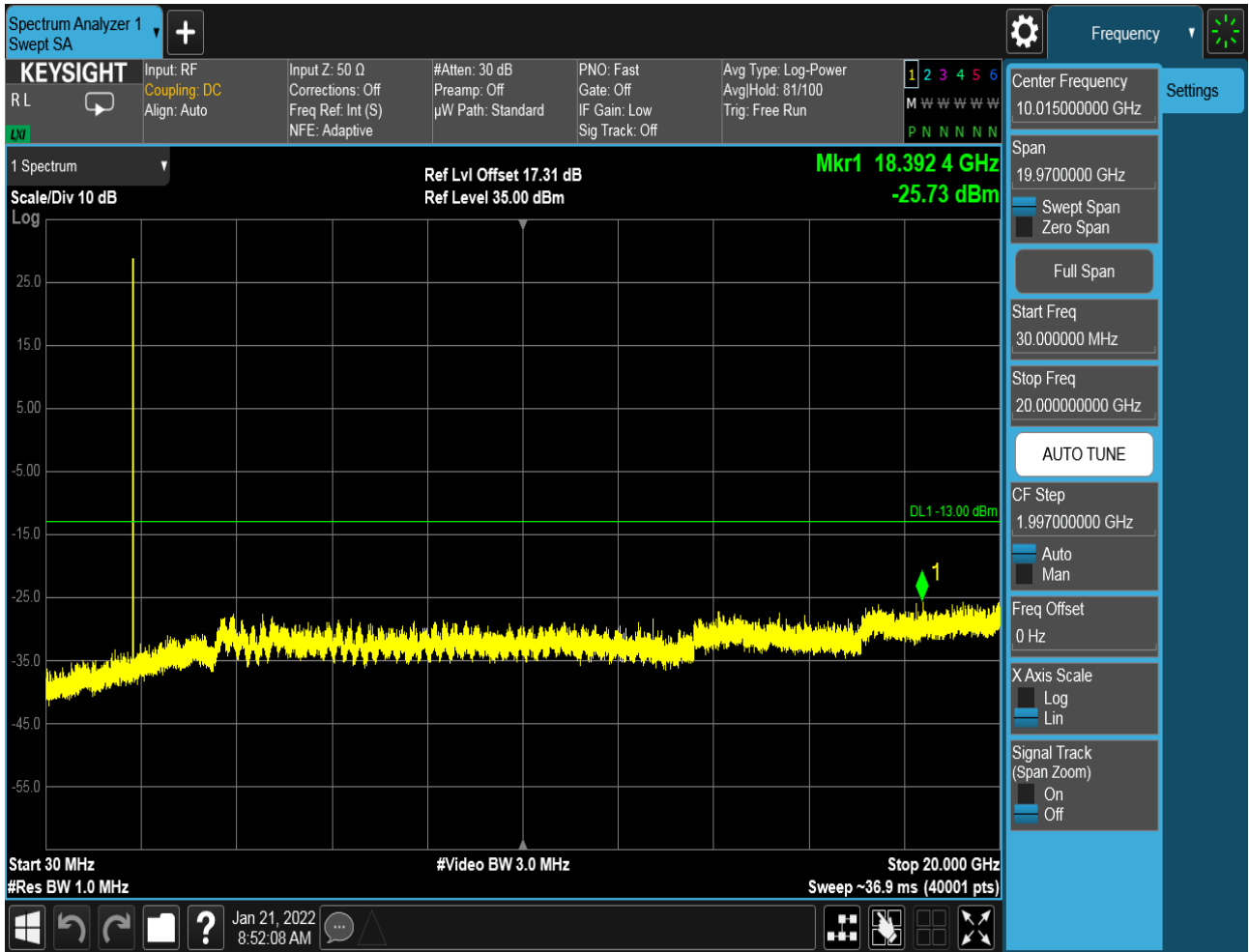


6.1.2.2 Test Mode = GSM/TM2

6.1.2.2.1 Test Channel = LCH

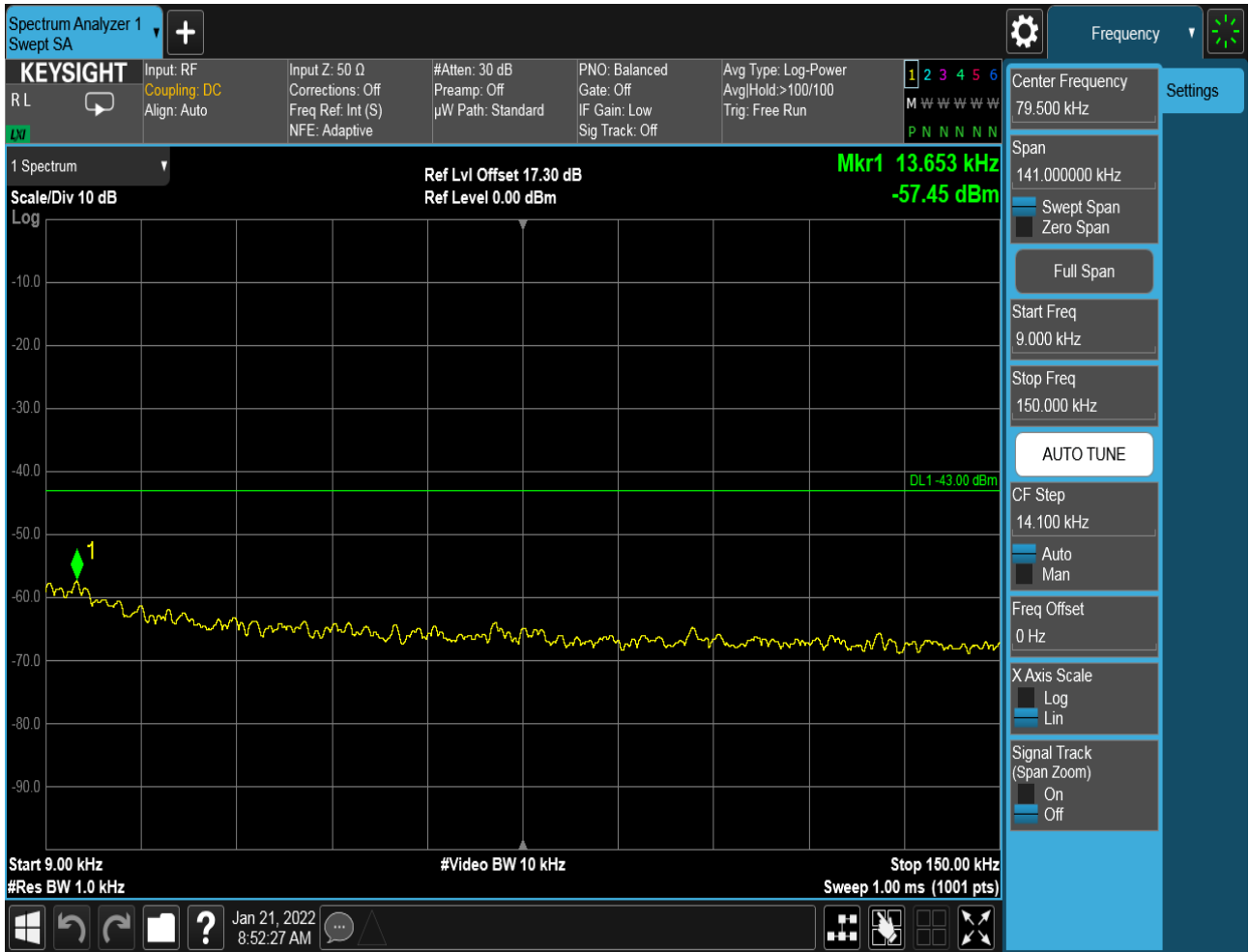


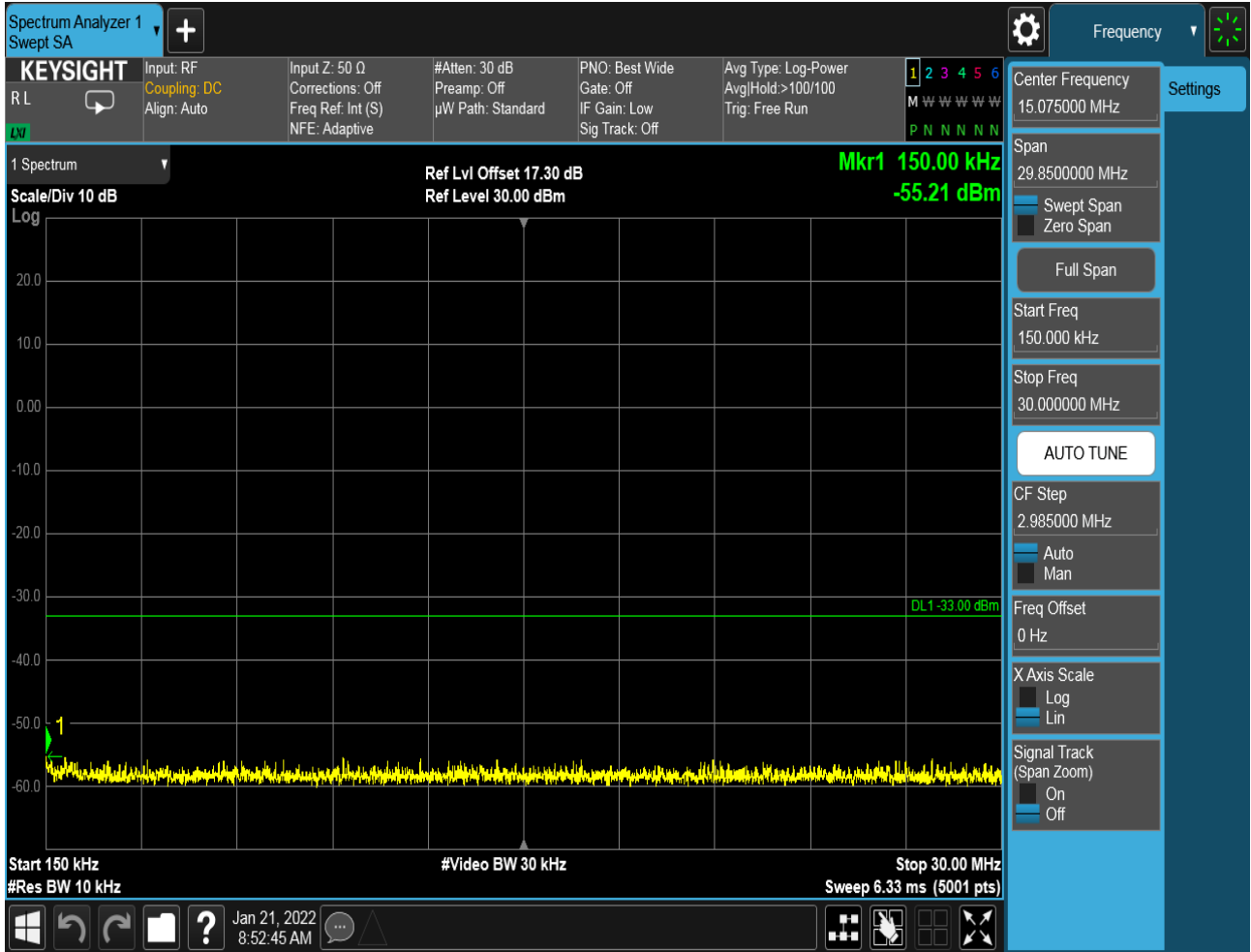


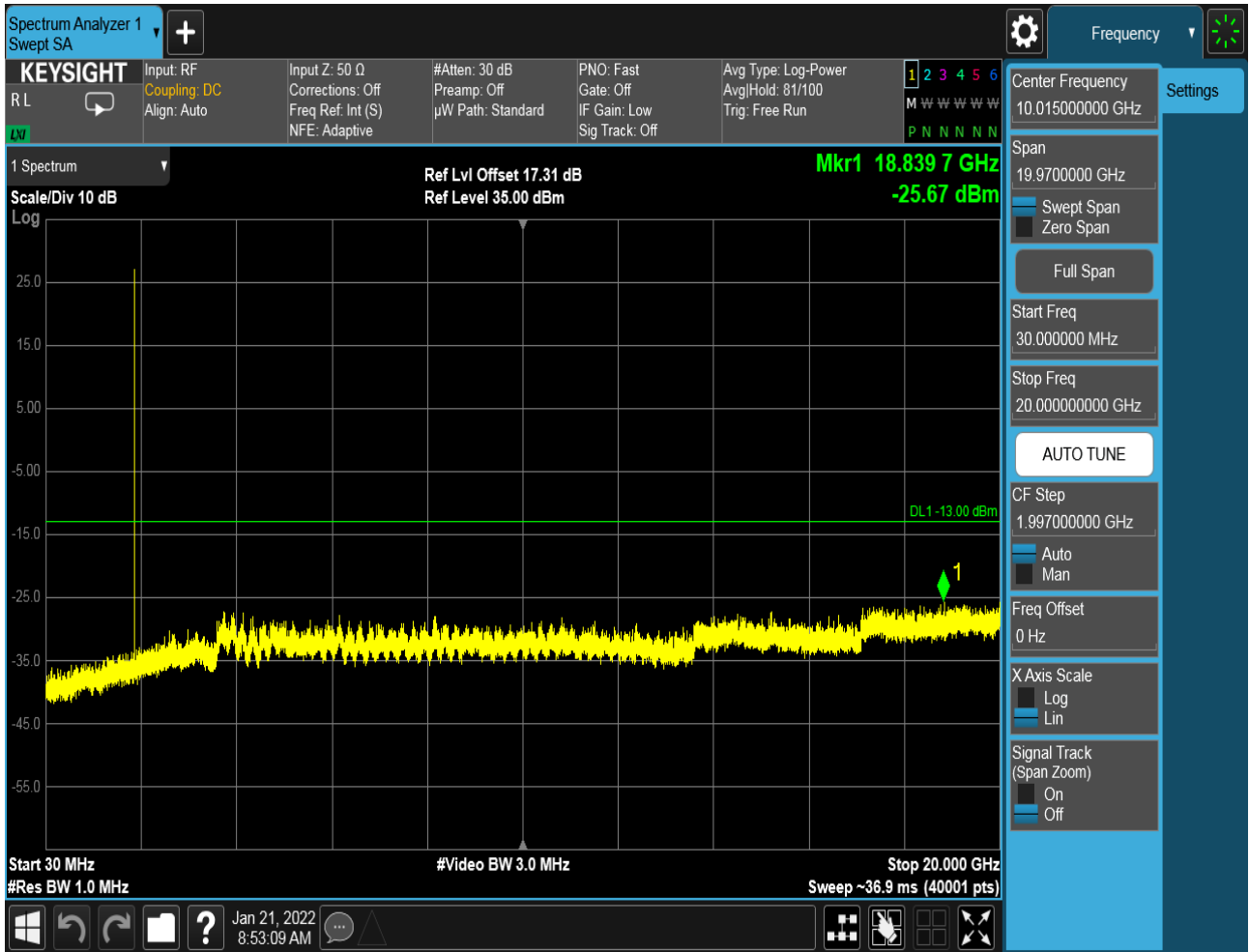




6.1.2.2.2 Test Channel = MCH

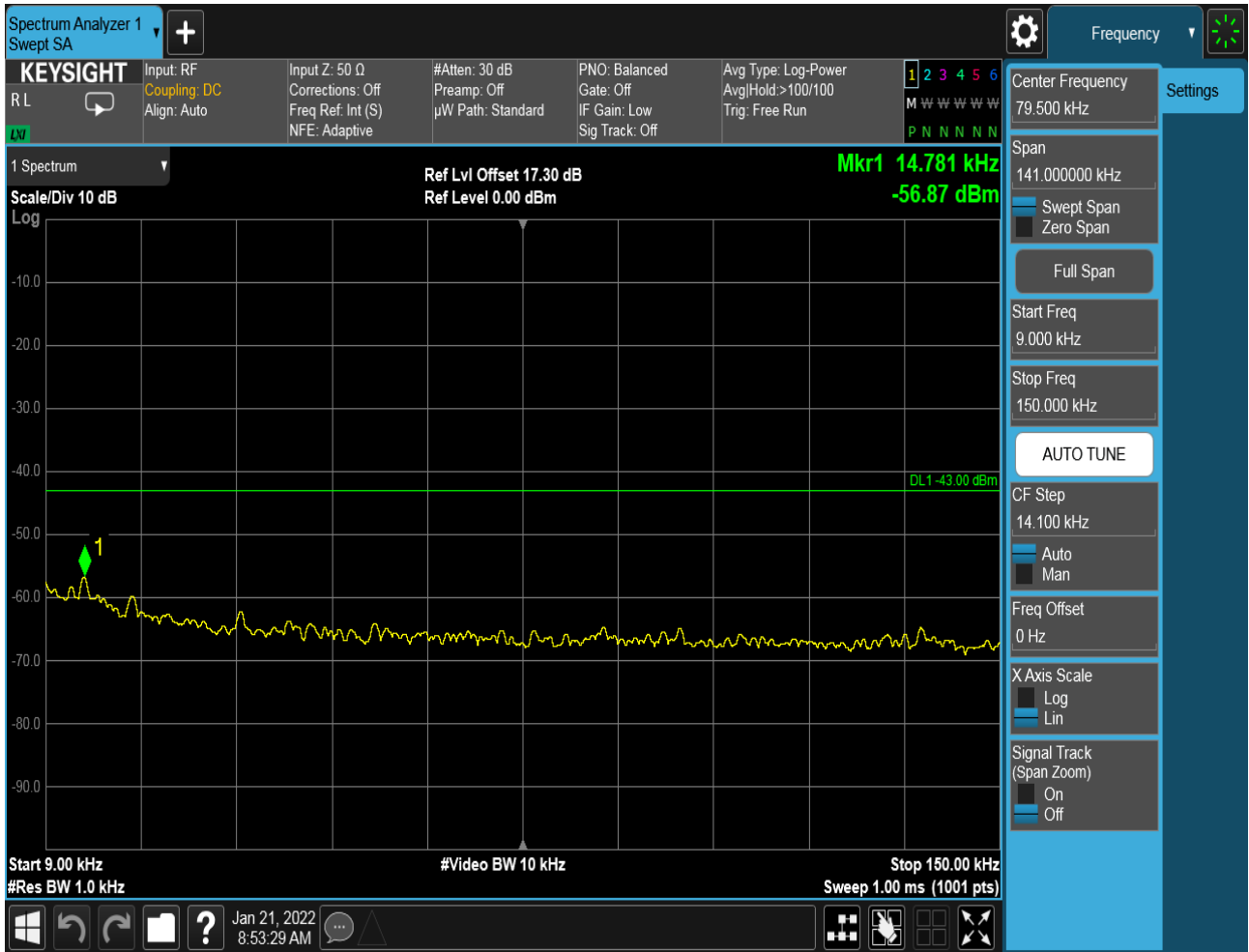


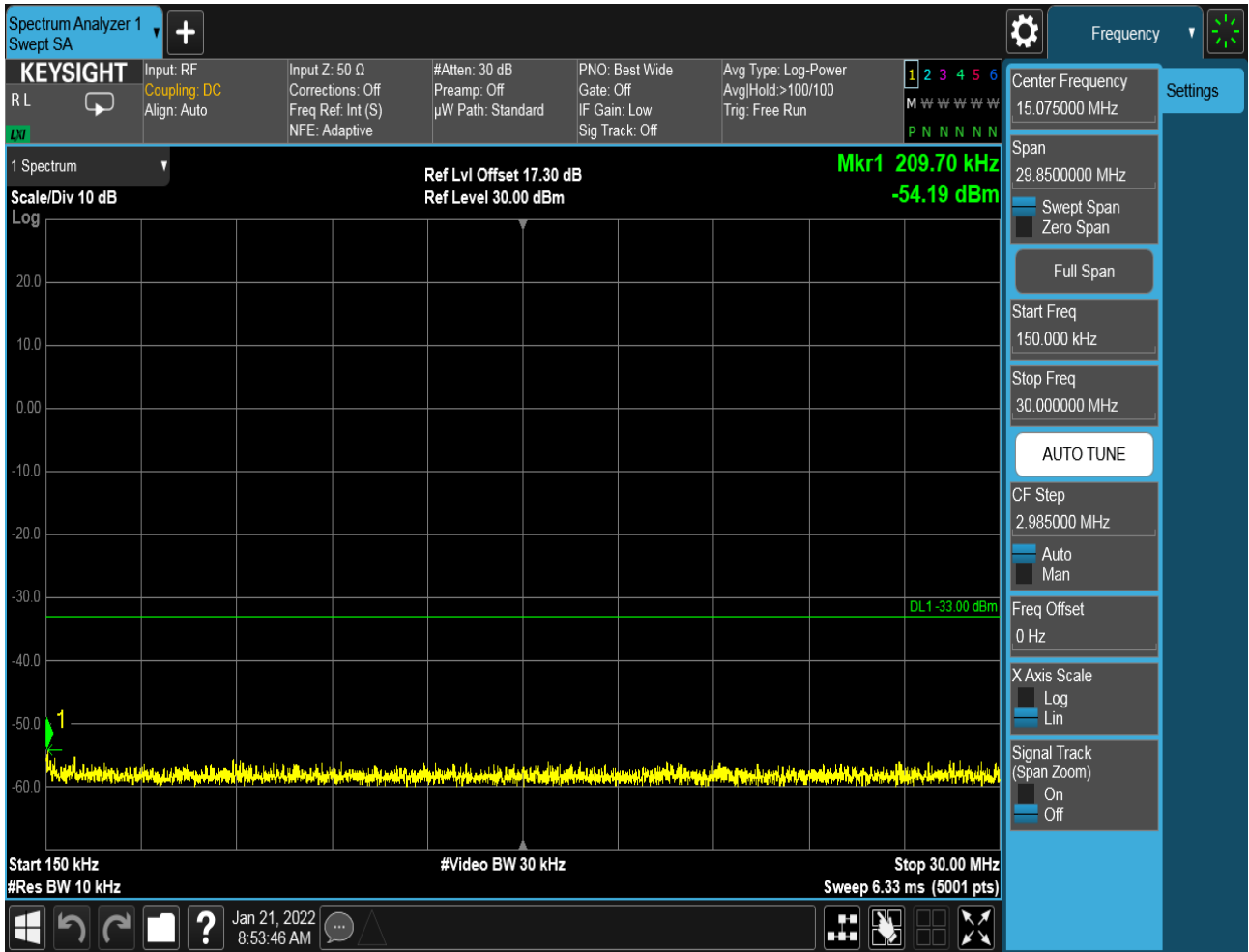


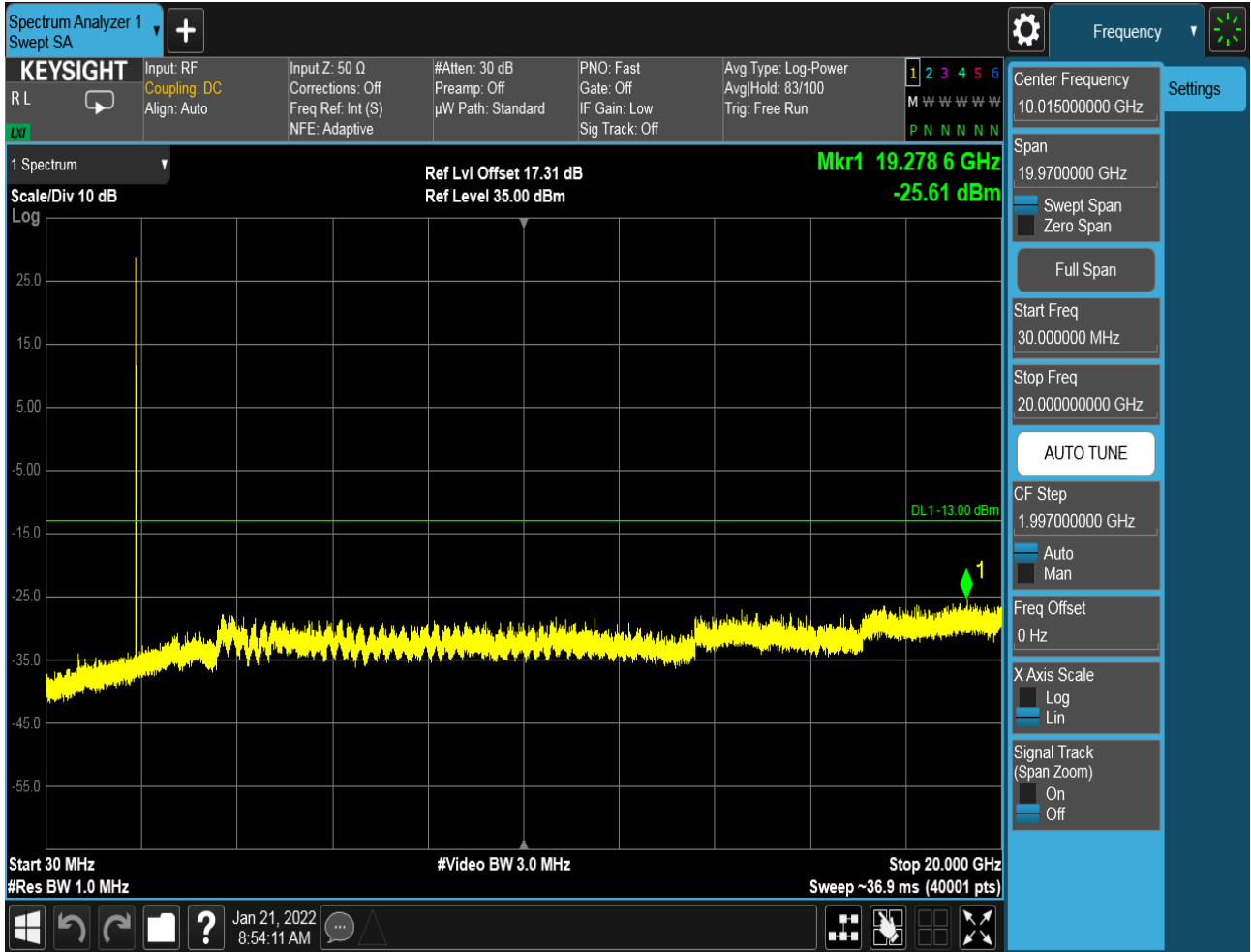




6.1.2.2.3 Test Channel = HCH







7Appendix_G: Field Strength of Spurious Radiation

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

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

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

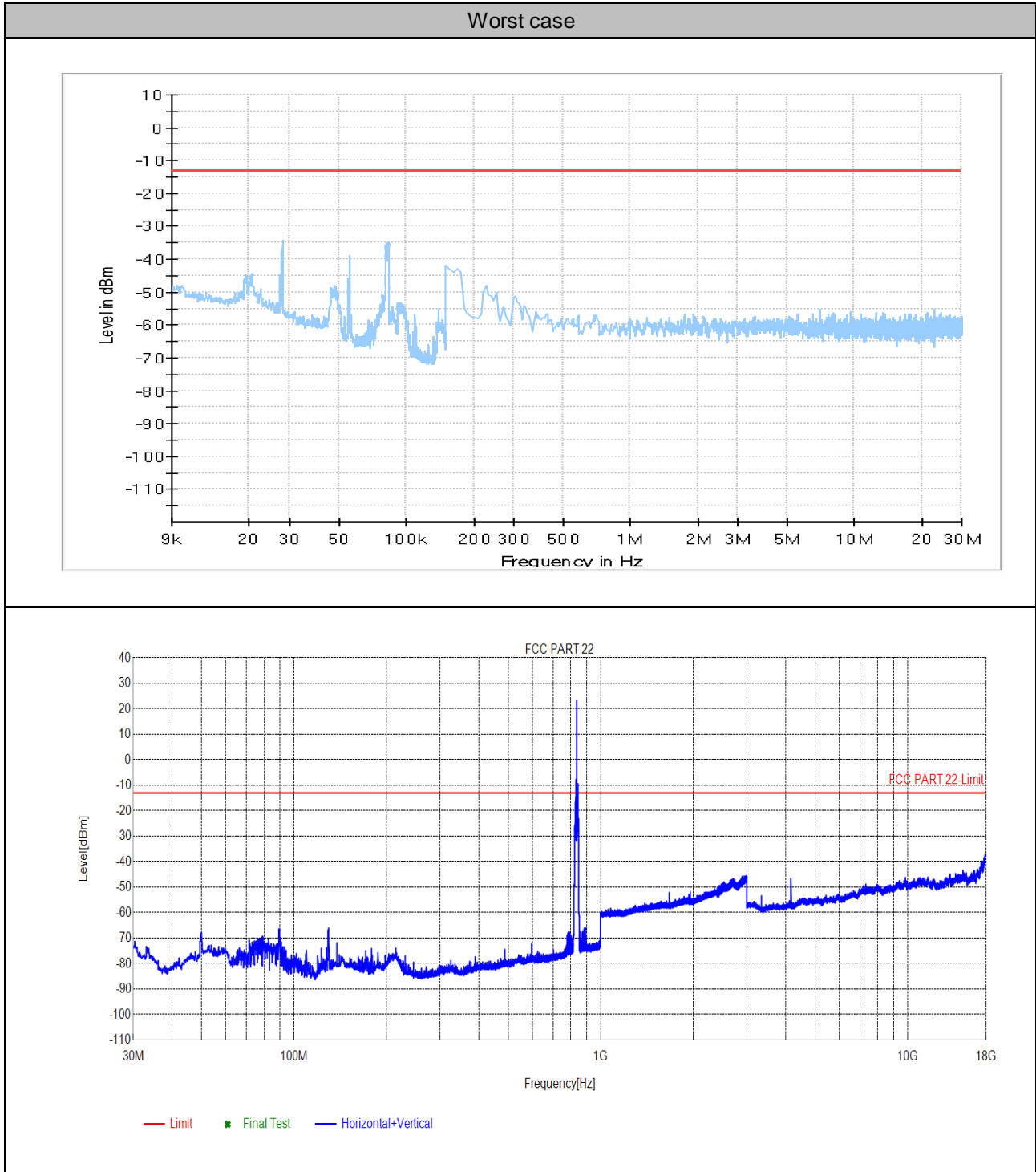
30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

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

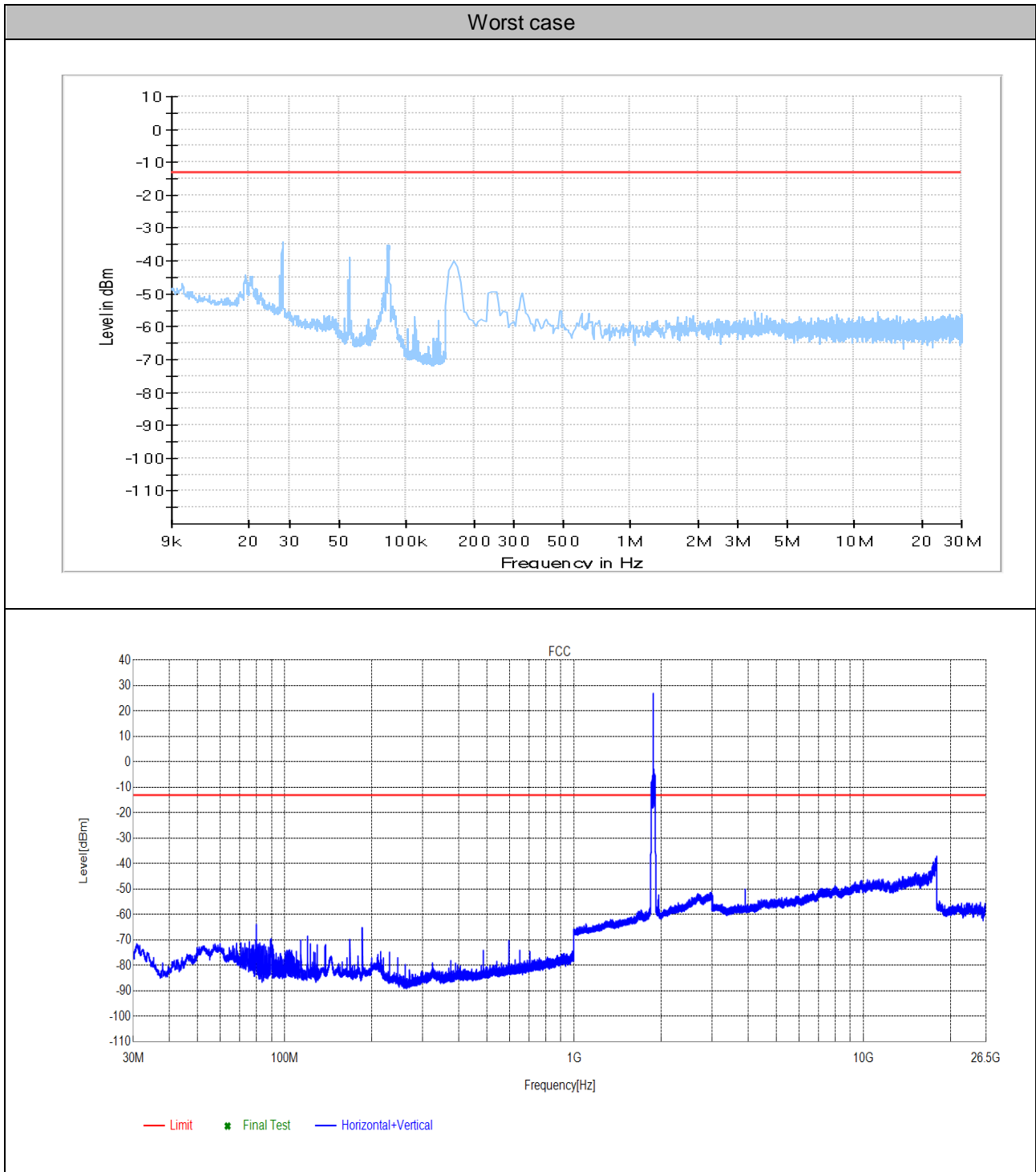
Part I - Test Plots

7.1 For GSM

7.1.1 Test Band = GSM850



7.1.2 Test Band = PCS1900





8Appendix_H: Frequency Stability

8.1 For GSM

8.1.1 Frequency Error vs. Voltage:

| Test Band | Test Mode | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
| GSM850 | GSM/TM1 | LCH | TN | VL | -2.97030 | -0.00360 | PASS |
| | | | | VN | -2.00172 | -0.00243 | PASS |
| | | | | VH | -4.06802 | -0.00494 | PASS |
| | | MCH | TN | VL | -3.45459 | -0.00413 | PASS |
| | | | | VN | 0.51657 | 0.00062 | PASS |
| | | | | VH | -3.13173 | -0.00374 | PASS |
| | | HCH | TN | VL | -2.45372 | -0.00289 | PASS |
| | | | | VN | -0.22600 | -0.00027 | PASS |
| | | | | VH | -1.74344 | -0.00205 | PASS |
| | GSM/TM2 | LCH | TN | VL | -1.19458 | -0.00145 | PASS |
| | | | | VN | -0.09686 | -0.00012 | PASS |
| | | | | VH | -0.16143 | -0.00020 | PASS |
| | | MCH | TN | VL | -2.16315 | -0.00259 | PASS |
| | | | | VN | -3.87430 | -0.00463 | PASS |
| | | | | VH | -1.64658 | -0.00197 | PASS |
| | | HCH | TN | VL | -2.58287 | -0.00304 | PASS |
| | | | | VN | -2.74430 | -0.00323 | PASS |
| | | | | VH | -1.54972 | -0.00183 | PASS |
| PCS1900 | GSM/TM1 | LCH | TN | VL | -3.64830 | -0.00197 | PASS |
| | | | | VN | 1.84029 | 0.00099 | PASS |
| | | | | VH | -3.90659 | -0.00211 | PASS |
| | | MCH | TN | VL | -3.42230 | -0.00182 | PASS |
| | | | | VN | 0.96858 | 0.00052 | PASS |
| | | | | VH | -2.22772 | -0.00118 | PASS |
| | | HCH | TN | VL | -3.26087 | -0.00197 | PASS |
| | | | | VN | 0.74257 | 0.00099 | PASS |
| | | | | VH | -3.06716 | -0.00211 | PASS |
| | GSM/TM2 | LCH | TN | VL | -0.48429 | -0.00026 | PASS |
| | | | | VN | -2.00172 | -0.00108 | PASS |
| | | | | VH | -0.61343 | -0.00033 | PASS |
| | | MCH | TN | VL | -1.42058 | -0.00076 | PASS |
| | | | | VN | -0.45200 | -0.00024 | PASS |
| | | | | VH | -0.38743 | -0.00021 | PASS |
| | | HCH | TN | VL | -3.09944 | -0.00026 | PASS |



| Test Band | Test Mode | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
| | | | | VN | -3.55144 | -0.00108 | PASS |
| | | | | VH | -3.45459 | -0.00033 | PASS |

8.1.2 Frequency Error vs. Temperature:

| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
| GSM850 | GSM/TM1 | LCH | VN | -30 | -2.97030 | -0.00360 | PASS |
| | | | | -20 | -3.00258 | -0.00364 | PASS |
| | | | | -10 | -1.06543 | -0.00129 | PASS |
| | | | | 0 | 2.58287 | 0.00313 | PASS |
| | | | | 10 | 0.61343 | 0.00074 | PASS |
| | | | | 20 | -2.00172 | -0.00243 | PASS |
| | | | | 30 | -1.00086 | -0.00121 | PASS |
| | | | | 40 | -1.19458 | -0.00145 | PASS |
| | | | | 50 | -2.93801 | -0.00356 | PASS |
| | | MCH | VN | -30 | -2.13087 | -0.00255 | PASS |
| | | | | -20 | -1.54972 | -0.00185 | PASS |
| | | | | -10 | -0.19372 | -0.00023 | PASS |
| | | | | 0 | 1.90487 | 0.00228 | PASS |
| | | | | 10 | 0.90400 | 0.00108 | PASS |
| | | | | 20 | 0.51657 | 0.00062 | PASS |
| | | | | 30 | -1.90487 | -0.00228 | PASS |
| | | | | 40 | -2.61515 | -0.00313 | PASS |
| | | | | 50 | -0.71029 | -0.00085 | PASS |
| | | HCH | VN | -30 | -2.48601 | -0.00293 | PASS |
| | | | | -20 | -1.84029 | -0.00217 | PASS |
| | | | | -10 | -0.25829 | -0.00030 | PASS |
| | | | | 0 | 2.06629 | 0.00243 | PASS |
| | | | | 10 | 0.87172 | 0.00103 | PASS |
| | | | | 20 | -0.22600 | -0.00027 | PASS |
| | 30 | | | 0.35514 | 0.00042 | PASS | |
| | 40 | | | -2.26001 | -0.00266 | PASS | |
| | 50 | | | -1.67886 | -0.00198 | PASS | |
| | GSM/TM2 | LCH | VN | -30 | -1.03315 | -0.00125 | PASS |
| | | | | -20 | -4.61688 | -0.00560 | PASS |
| | | | | -10 | -1.35601 | -0.00165 | PASS |
| 0 | | | | -2.32458 | -0.00282 | PASS | |
| 10 | | | | 1.22686 | 0.00149 | PASS | |
| 20 | | | | -0.09686 | -0.00012 | PASS | |



| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|----------|----------|------|----------|----------|----------|------|-----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|-----|----|--|--|--|--|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|---|---------|---------|------|----|---------|---------|------|----|---------|---------|------|----|---------|---------|------|-----|----|--|--|--|--|--|--|----|---------|---------|------|----|---------|---------|------|-----|---------|---------|------|
| | | | | 30 | 2.38915 | 0.00290 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 40 | 1.09772 | 0.00133 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 50 | 0.96858 | 0.00118 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | MCH | VN | | | -30 | -0.67800 | -0.00081 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | -20 | -3.97116 | -0.00475 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | -10 | -1.61429 | -0.00193 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 0 | -3.42230 | -0.00409 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 10 | -1.32372 | -0.00158 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 20 | -3.87430 | -0.00463 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 30 | 1.58201 | 0.00189 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 40 | 0.03229 | 0.00004 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 50 | -1.00086 | -0.00120 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | HCH | VN | | | -30 | -1.35601 | -0.00160 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | -20 | -1.77572 | -0.00209 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | -10 | -0.29057 | -0.00034 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 0 | -2.42144 | -0.00285 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 10 | 0.51657 | 0.00061 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 20 | -2.74430 | -0.00323 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 30 | 0.25829 | 0.00030 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 40 | -0.71029 | -0.00084 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | PCS1900 | GSM/TM1 | LCH | VN | | | | | -30 | 3.77744 | 0.00204 | PASS | -20 | 0.58115 | 0.00031 | PASS | -10 | 3.09944 | 0.00168 | PASS | 0 | -0.83943 | -0.00045 | PASS | 10 | 3.77744 | 0.00204 | PASS | 20 | 1.84029 | 0.00099 | PASS | 30 | 3.09944 | 0.00168 | PASS | 40 | 4.16488 | 0.00225 | PASS | 50 | 0.41972 | 0.00023 | PASS | MCH | VN | | | | | | | -30 | 3.42230 | 0.00182 | PASS | -20 | 0.64572 | 0.00034 | PASS | -10 | 4.19716 | 0.00223 | PASS | 0 | 0.41972 | 0.00022 | PASS | 10 | 2.03401 | 0.00108 | PASS | 20 | 0.96858 | 0.00052 | PASS | 30 | 2.71201 | 0.00144 | PASS | HCH | VN | | | | | | | 40 | 2.09858 | 0.00112 | PASS | 50 | 1.93715 | 0.00103 | PASS | -30 | 2.19544 | 0.00115 | PASS |
| | | | | | | | | | | -30 | 3.77744 | 0.00204 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | -20 | 0.58115 | 0.00031 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | -10 | 3.09944 | 0.00168 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | -0.83943 | | | | | | | | | -0.00045 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 3.77744 | | | | | | | | | 0.00204 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 1.84029 | | | | | | | | | 0.00099 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 3.09944 | | | | | | | | | 0.00168 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 4.16488 | | | | | | | | | 0.00225 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 0.41972 | | | | | | | | | 0.00023 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MCH | VN | | | | | | | | | | | | | | | -30 | 3.42230 | 0.00182 | PASS | -20 | 0.64572 | 0.00034 | PASS | -10 | 4.19716 | 0.00223 | PASS | 0 | 0.41972 | 0.00022 | PASS | 10 | 2.03401 | 0.00108 | PASS | 20 | 0.96858 | 0.00052 | PASS | 30 | 2.71201 | 0.00144 | PASS | HCH | VN | | | | | | | 40 | 2.09858 | 0.00112 | PASS | 50 | 1.93715 | 0.00103 | PASS | -30 | 2.19544 | 0.00115 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | -30 | 3.42230 | 0.00182 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | -20 | 0.64572 | 0.00034 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | -10 | 4.19716 | 0.00223 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 0 | 0.41972 | 0.00022 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 10 | 2.03401 | 0.00108 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 20 | 0.96858 | 0.00052 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 30 | 2.71201 | 0.00144 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HCH | VN | | | | | | | | | 40 | 2.09858 | 0.00112 | PASS | 50 | 1.93715 | 0.00103 | PASS | -30 | 2.19544 | 0.00115 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 40 | 2.09858 | 0.00112 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 50 | 1.93715 | 0.00103 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | -30 | 2.19544 | 0.00115 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict | |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|----------|------|
| | | | | -20 | -0.06457 | -0.00003 | PASS | |
| | | | | -10 | 2.42144 | 0.00127 | PASS | |
| | | | | 0 | -1.03315 | -0.00054 | PASS | |
| | | | | 10 | 1.54972 | 0.00081 | PASS | |
| | | | | 20 | 0.74257 | 0.00039 | PASS | |
| | | | | 30 | -0.32286 | -0.00017 | PASS | |
| | | | | 40 | 1.87258 | 0.00098 | PASS | |
| | | | | 50 | -2.42144 | -0.00127 | PASS | |
| | | GSM/TM2 | LCH | VN | -30 | -0.32286 | -0.00017 | PASS |
| | | | | | -20 | -2.74430 | -0.00148 | PASS |
| | | | | | -10 | -1.58201 | -0.00086 | PASS |
| | | | | | 0 | -2.29230 | -0.00124 | PASS |
| | | | | | 10 | -3.22858 | -0.00174 | PASS |
| | | | | | 20 | -2.00172 | -0.00108 | PASS |
| | | | | | 30 | -1.54972 | -0.00084 | PASS |
| | | | | | 40 | -4.93973 | -0.00267 | PASS |
| | | | 50 | -1.58201 | -0.00086 | PASS | | |
| | | | MCH | VN | -30 | -1.03315 | -0.00055 | PASS |
| | | | | | -20 | -2.48601 | -0.00132 | PASS |
| | | | | | -10 | -0.80715 | -0.00043 | PASS |
| | | | | | 0 | -2.61515 | -0.00139 | PASS |
| | | | | | 10 | -3.97116 | -0.00211 | PASS |
| | | | | | 20 | -0.45200 | -0.00024 | PASS |
| | | | | | 30 | -3.84202 | -0.00204 | PASS |
| | | | | | 40 | -3.42230 | -0.00182 | PASS |
| | | | 50 | -2.38915 | -0.00127 | PASS | | |
| | | | HCH | VN | -30 | -2.87344 | -0.00150 | PASS |
| | | | | | -20 | -4.22945 | -0.00221 | PASS |
| | | | | | -10 | -2.74430 | -0.00144 | PASS |
| | | | | | 0 | -4.97202 | -0.00260 | PASS |
| | | | | | 10 | -5.19802 | -0.00272 | PASS |
| | | | | | 20 | -3.55144 | -0.00186 | PASS |
| | | 30 | | | -4.61688 | -0.00242 | PASS | |
| | | 40 | | | -5.23031 | -0.00274 | PASS | |
| | | 50 | -3.19630 | -0.00167 | PASS | | | |

END