

n77(3700~3980 MHz)\_50 M\_Band Edge\_High\_BPSK\_1RB(1)



n77(3700~3980 MHz)\_50 M\_Band Edge\_High\_BPSK\_FullRB(2)



n77(3700~3980 MHz)\_50 M\_Band Edge\_High\_BPSK\_1RB(2)



n77(3700~3980 MHz)\_50 M\_Band Edge\_High\_BPSK\_FullRB(3)



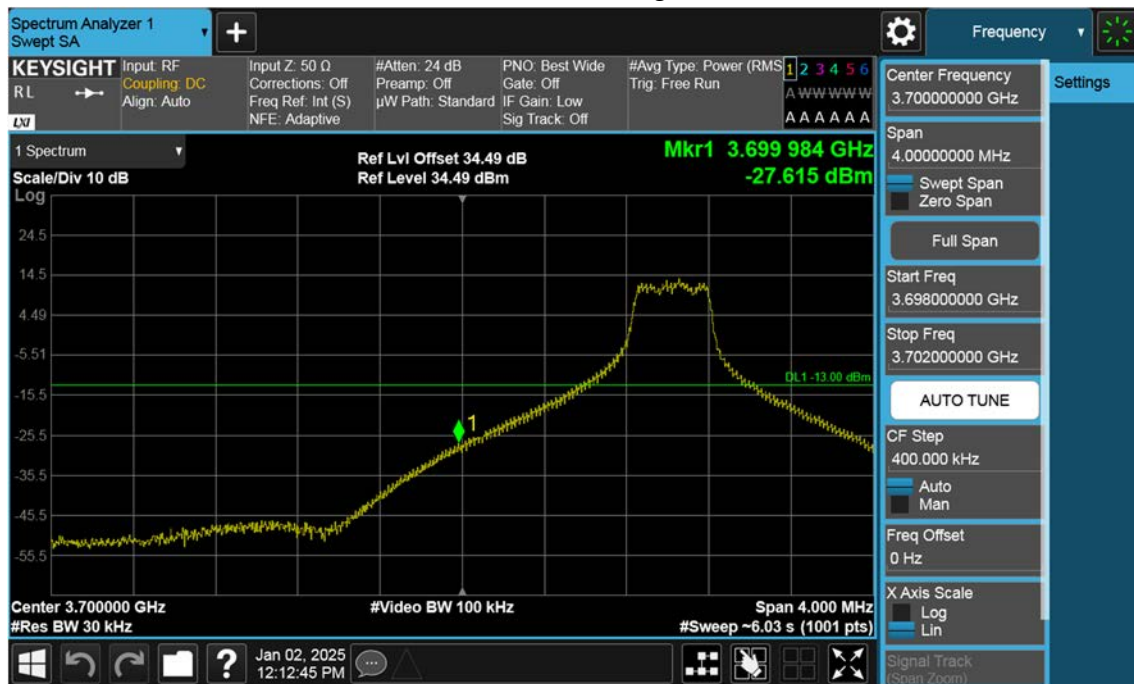
n77(3700~3980 MHz)\_50 M\_Band Edge\_High\_BPSK\_1RB(3)



n77(3700~3980 MHz)\_60 M\_Band Edge\_Low\_BPSK\_FullRB(1)



n77(3700~3980 MHz)\_60 M\_Band Edge\_Low\_BPSK\_1RB(1)



n77(3700~3980 MHz)\_60 M\_Band Edge\_Low\_BPSK\_FullRB(2)





n77(3700~3980 MHz)\_60 M\_Band Edge\_Low\_BPSK\_1RB(2)



n77(3700~3980 MHz)\_60 M\_Band Edge\_Low\_BPSK\_FullRB(3)



n77(3700~3980 MHz)\_60 M\_Band Edge\_Low\_BPSK\_1RB(3)



n77(3700~3980 MHz)\_60 M\_Band Edge\_High\_BPSK\_FullRB(1)



n77(3700~3980 MHz)\_60 M\_Band Edge\_High\_BPSK\_1RB(1)



n77(3700~3980 MHz)\_60 M\_Band Edge\_High\_BPSK\_FullRB(2)



n77(3700~3980 MHz)\_60 M\_Band Edge\_High\_BPSK\_1RB(2)



n77(3700~3980 MHz)\_60 M\_Band Edge\_High\_BPSK\_FullRB(3)





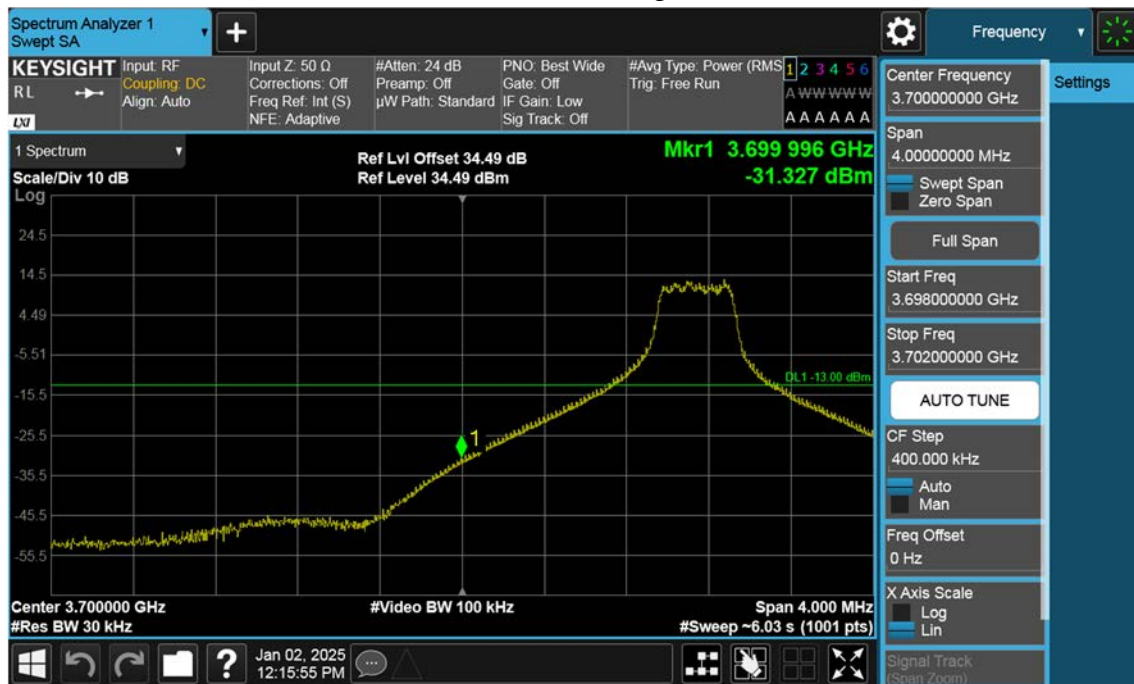
n77(3700~3980 MHz)\_60 M\_Band Edge\_High\_BPSK\_1RB(3)



n77(3700~3980 MHz)\_70 M\_Band Edge\_Low\_BPSK\_FullRB(1)



n77(3700~3980 MHz)\_70 M\_Band Edge\_Low\_BPSK\_1RB(1)



n77(3700~3980 MHz)\_70 M\_Band Edge\_Low\_BPSK\_FullRB(2)



n77(3700~3980 MHz)\_70 M\_Band Edge\_Low\_BPSK\_1RB(2)



n77(3700~3980 MHz)\_70 M\_Band Edge\_Low\_BPSK\_FullRB(3)



n77(3700~3980 MHz)\_70 M\_Band Edge\_Low\_BPSK\_1RB(3)



n77(3700~3980 MHz)\_70 M\_Band Edge\_High\_BPSK\_FullRB(1)





n77(3700~3980 MHz)\_70 M\_Band Edge\_High\_BPSK\_1RB(1)



n77(3700~3980 MHz)\_70 M\_Band Edge\_High\_BPSK\_FullRB(2)



n77(3700~3980 MHz)\_70 M\_Band Edge\_High\_BPSK\_1RB(2)



n77(3700~3980 MHz)\_70 M\_Band Edge\_High\_BPSK\_FullRB(3)



n77(3700~3980 MHz)\_70 M\_Band Edge\_High\_BPSK\_1RB(3)



n77(3700~3980 MHz)\_80 M\_Band Edge\_Low\_BPSK\_FullRB(1)



n77(3700~3980 MHz)\_80 M\_Band Edge\_Low\_BPSK\_1RB(1)



n77(3700~3980 MHz)\_80 M\_Band Edge\_Low\_BPSK\_FullRB(2)





n77(3700~3980 MHz)\_80 M\_Band Edge\_Low\_BPSK\_1RB(2)



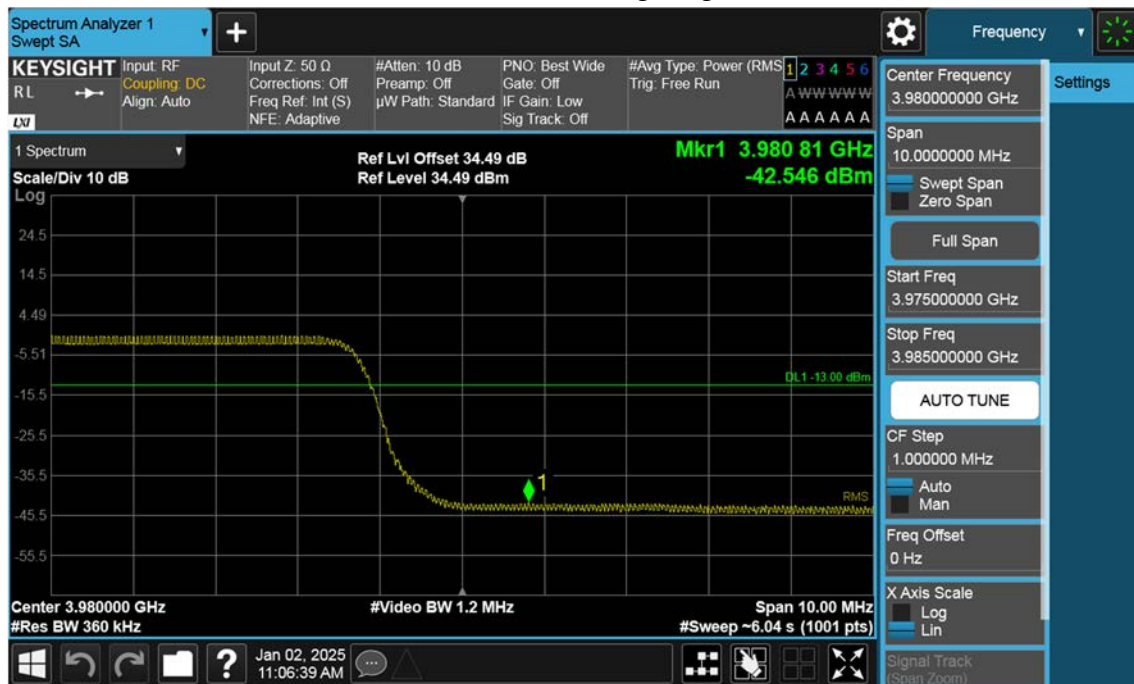
n77(3700~3980 MHz)\_80 M\_Band Edge\_Low\_BPSK\_FullRB(3)



n77(3700~3980 MHz)\_80 M\_Band Edge\_Low\_BPSK\_1RB(3)



n77(3700~3980 MHz)\_80 M\_Band Edge\_High\_BPSK\_FullRB(1)



n77(3700~3980 MHz)\_80 M\_Band Edge\_High\_BPSK\_1RB(1)



n77(3700~3980 MHz)\_80 M\_Band Edge\_High\_BPSK\_FullRB(2)



n77(3700~3980 MHz)\_80 M\_Band Edge\_High\_BPSK\_1RB(2)

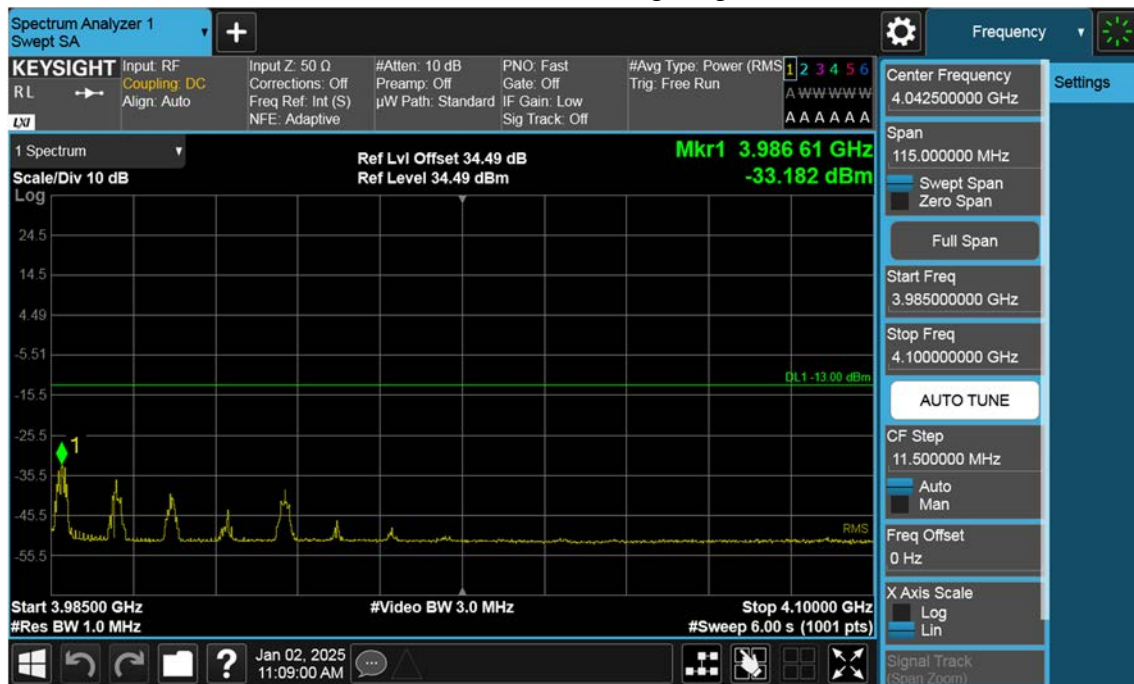


n77(3700~3980 MHz)\_80 M\_Band Edge\_High\_BPSK\_FullRB(3)





n77(3700~3980 MHz)\_80 M\_Band Edge\_High\_BPSK\_1RB(3)



n77(3700~3980 MHz)\_90 M\_Band Edge\_Low\_BPSK\_FullRB(1)



n77(3700~3980 MHz)\_90 M\_Band Edge\_Low\_BPSK\_1RB(1)



n77(3700~3980 MHz)\_90 M\_Band Edge\_Low\_BPSK\_FullRB(2)



n77(3700~3980 MHz)\_90 M\_Band Edge\_Low\_BPSK\_1RB(2)



n77(3700~3980 MHz)\_90 M\_Band Edge\_Low\_BPSK\_FullRB(3)



**Keysight Spectrum Analyzer 1**  
Swept SA

**Input:** RF  
**Coupling:** DC  
**Align:** Auto

**Input Z:** 50  $\Omega$   
**Corrections:** Off  
**Freq Ref:** Int (S)  
**NFE:** Adaptive

**#Atten:** 24 dB  
**Preamp:** Off  
 **$\mu$ W Path:** Standard

**PNO:** Fast  
**Gate:** Off  
**IF Gain:** Low  
**Sig Track:** Off

**#Avg Type:** Power (RMS)  
**Trig:** Free Run

**Center Frequency:** 3.59750000 GHz

**Span:** 195.000000 MHz

**Start Freq:** 3.500000000 GHz

**Stop Freq:** 3.695000000 GHz

**AUTO TUNE**

**CF Step:** 19.5000000 MHz

**Freq Offset:** 0 Hz

**X Axis Scale:** Log

**Start 3.50000 GHz**  
**#Res BW 1.0 MHz**

**Ref Lvl Offset 34.49 dB**  
**Ref Level 34.49 dBm**

**Mkr1 3.693 635 GHz**  
**-32.165 dBm**

**DL1 -13.00 dBm**

**#Video BW 3.0 MHz**  
**Stop 3.69500 GHz**  
**#Sweep 6.00 s (1001 pts)**

**1 Spectrum**  
**Scale/Div 10 dB**  
**Log**

**Signal Track (Span Zoom)**

n77(3700~3980 MHz)\_90 M\_Band Edge\_High\_BPSK\_FullRB(1)

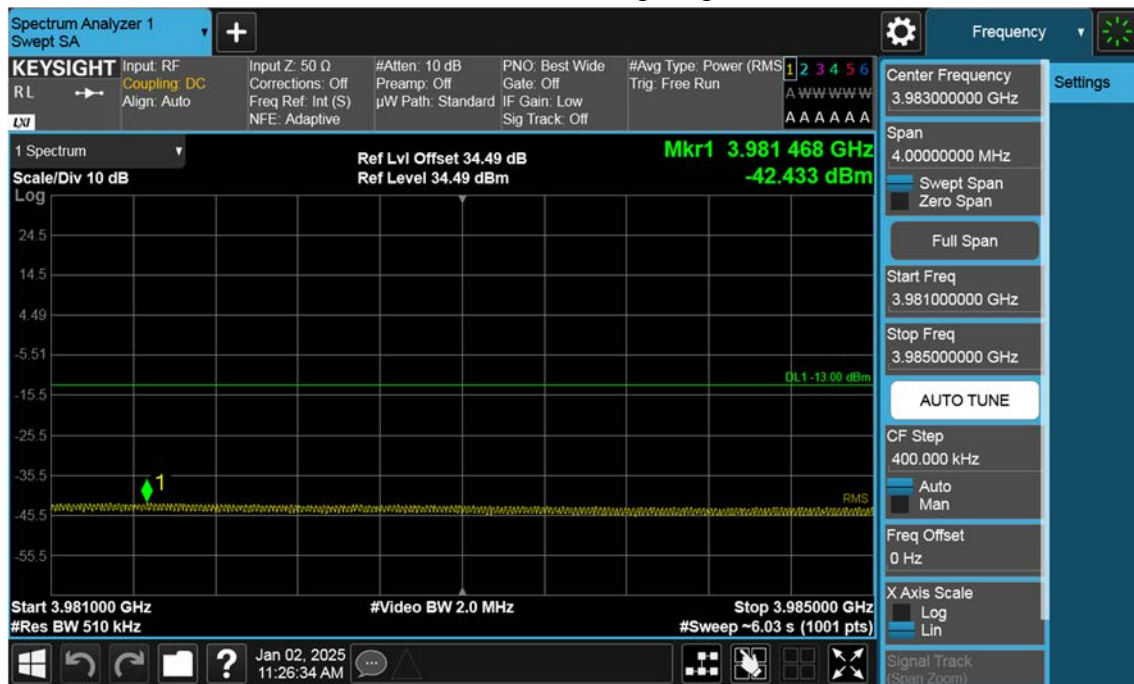




n77(3700~3980 MHz)\_90 M\_Band Edge\_High\_BPSK\_1RB(1)



n77(3700~3980 MHz)\_90 M\_Band Edge\_High\_BPSK\_FullRB(2)



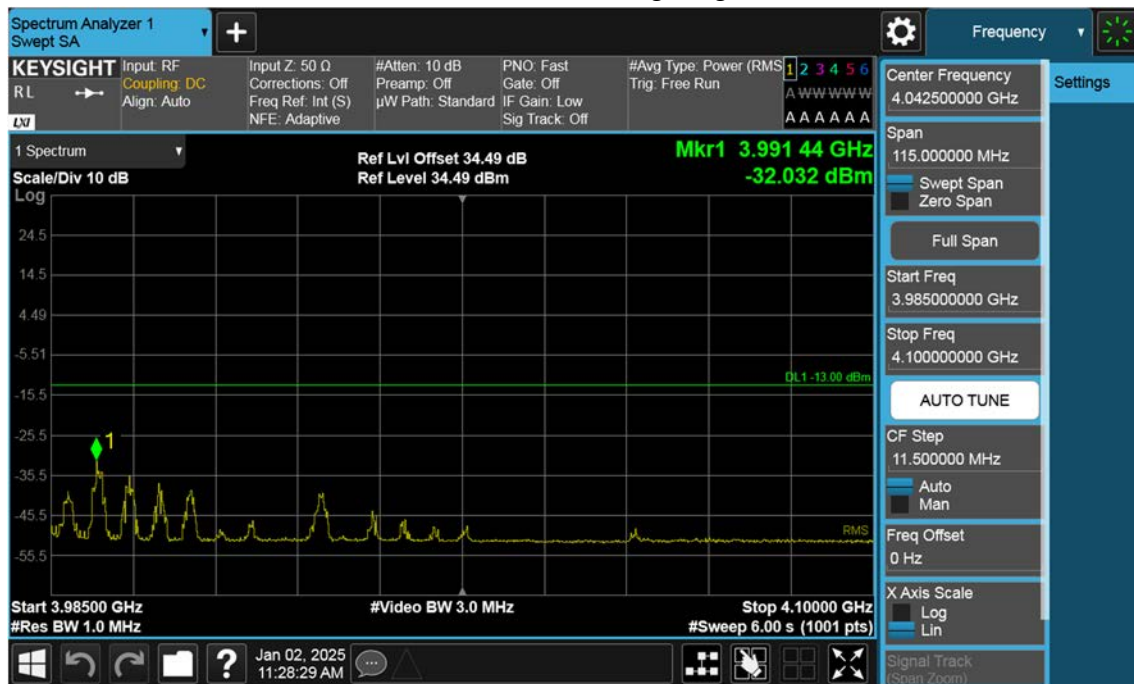
The screenshot displays a Spectrum Analyzer interface with the following components:

- Top Panel:**
  - Keysight Logo:** Spectrum Analyzer 1, Swept SA.
  - Input/Settings:** Input: RF, Coupling: DC, Align: Auto, Input Z: 50  $\Omega$ , Corrections: Off, Freq Ref: Int (S), NFE: Adaptive, #Atten: 10 dB, Preamp: Off, PNO: Best Wide, Gate: Off, IF Gain: Low, Sig Track: Off, #Avg Type: Power (RMS), Tng: Free Run.
  - Frequency/Scale:** 1 2 3 4 5 6, A W W W W W W W, A A A A A A A A.
- Main Display:**
  - 1 Spectrum** (dropdown menu).
  - Scale/Div 10 dB** (dropdown menu).
  - Log** (dropdown menu).
  - Ref Lvl Offset 34.49 dB** and **Ref Level 34.49 dBm**.
  - Mkr1 3.983 108 GHz** and **-29.925 dBm** (green text).
  - DL1 -13.00 dBm** (green text).
  - Start 3.981000 GHz** and **Stop 3.985000 GHz**.
  - #Res BW 510 kHz** and **#Video BW 2.0 MHz**.
  - #Sweep ~6.03 s (1001 pts)**.
- Right Panel:**
  - Center Frequency:** 3.983000000 GHz.
  - Span:** 4.00000000 MHz.
  - Swept Span** (checked) and **Zero Span** (unchecked).
  - Full Span** (button).
  - Start Freq:** 3.981000000 GHz.
  - Stop Freq:** 3.985000000 GHz.
  - AUTO TUNE** (button).
  - CF Step:** 400.000 kHz.
  - Auto** (checked) and **Man** (unchecked).
  - Freq Offset:** 0 Hz.
  - X Axis Scale:** Log (checked) and Lin (unchecked).
  - Signal Track:** (Span Zoom).
- Bottom Panel:**
  - Windows taskbar icons (Start, Back, Forward, Home, Search, Task View, etc.).
  - System clock: Jan 02, 2025, 11:28:02 AM.
  - Navigation icons (Grid, Pointer, Zoom, etc.).

n77(3700~3980 MHz)\_90 M\_Band Edge\_High\_BPSK\_FullRB(3)



n77(3700~3980 MHz)\_90 M\_Band Edge\_High\_BPSK\_1RB(3)



n77(3700~3980 MHz)\_100 M\_Band Edge\_Low\_BPSK\_FullRB(1)



n77(3700~3980 MHz)\_100 M\_Band Edge\_Low\_BPSK\_1RB(1)



n77(3700~3980 MHz)\_100 M\_Band Edge\_Low\_BPSK\_FullRB(2)





n77(3700~3980 MHz)\_100 M\_Band Edge\_Low\_BPSK\_1RB(2)



n77(3700~3980 MHz)\_100 M\_Band Edge\_Low\_BPSK\_FullRB(3)



n77(3700~3980 MHz)\_100 M\_Band Edge\_Low\_BPSK\_1RB(3)



n77(3700~3980 MHz)\_100 M\_Band Edge\_High\_BPSK\_FullRB(1)



n77(3700~3980 MHz)\_100 M\_Band Edge\_High\_BPSK\_1RB(1)



n77(3700~3980 MHz)\_100 M\_Band Edge\_High\_BPSK\_FullRB(2)



n77(3700~3980 MHz)\_100 M\_Band Edge\_High\_BPSK\_1RB(2)

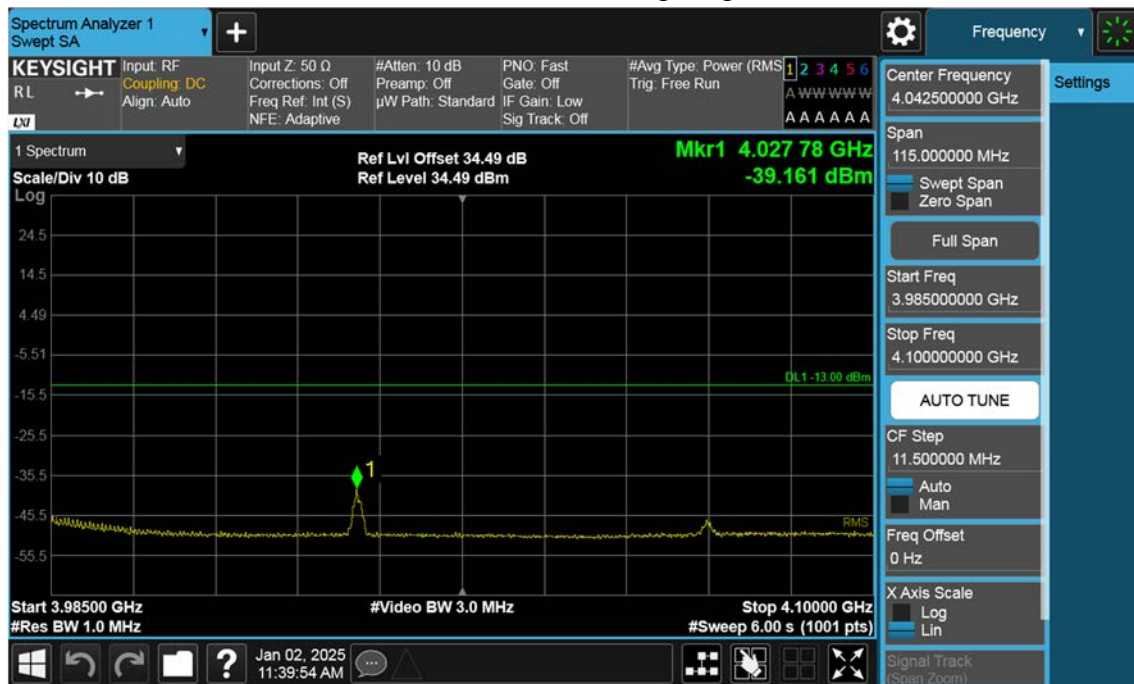


n77(3700~3980 MHz)\_100 M\_Band Edge\_High\_BPSK\_FullIRB(3)





n77(3700~3980 MHz)\_100 M\_Band Edge\_High\_BPSK\_1RB(3)



## 12. ANNEX A\_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-2502-FC100-P