

LTE TDD Band 48 Intra-band CA non-continuous, Nominal Bandwidth: 5M+10M

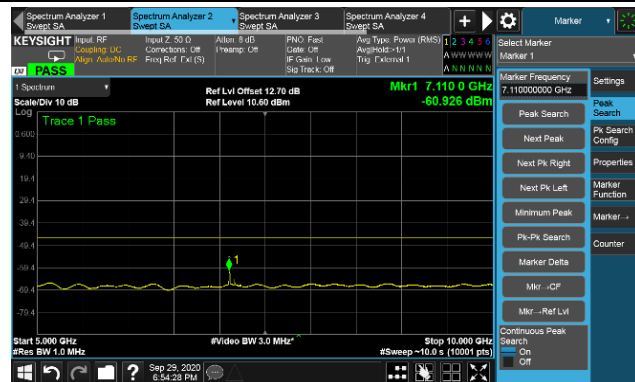
QPSK Low channel



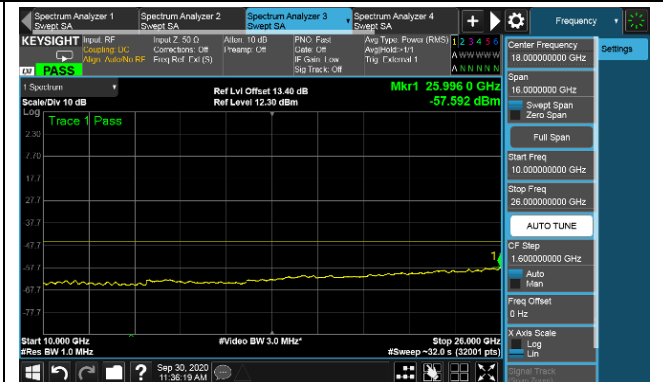
QPSK Low channel



QPSK Low channel



QPSK Low channel



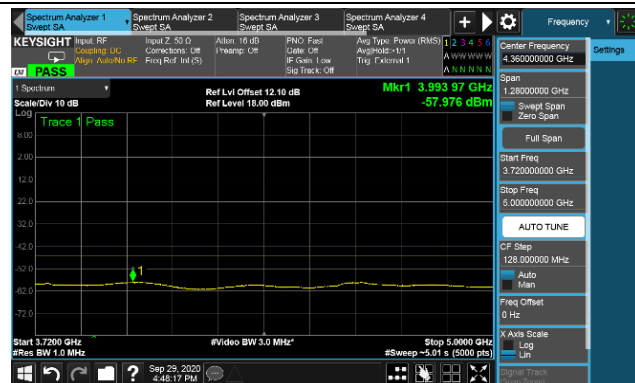
QPSK Low channel



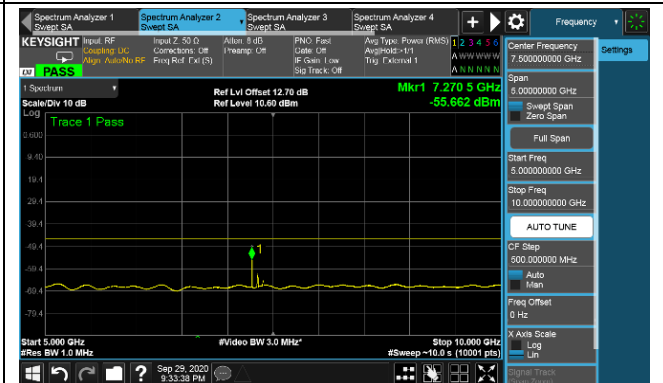
QPSK High channel



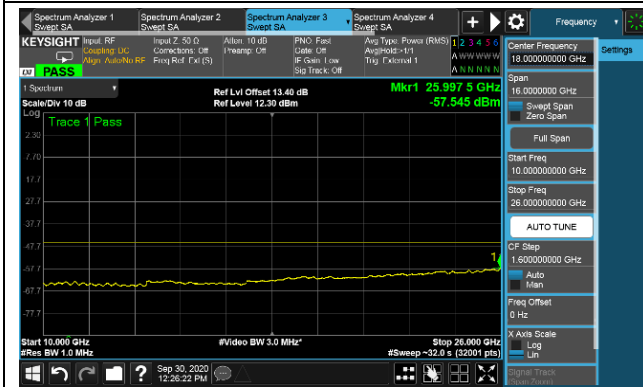
QPSK High channel



QPSK High channel



QPSK High channel

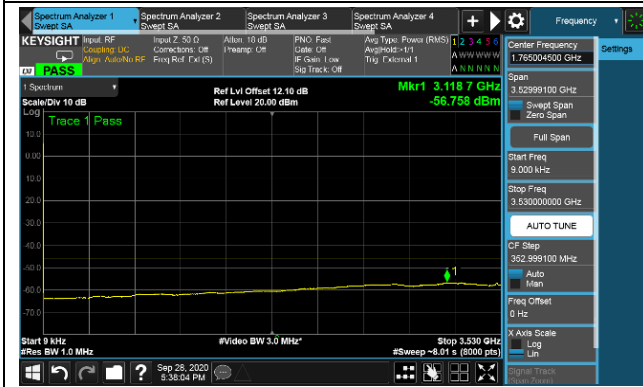


QPSK High channel



LTE TDD Band 48 Intra-band CA non-continuous, Nominal Bandwidth: 5M+15M

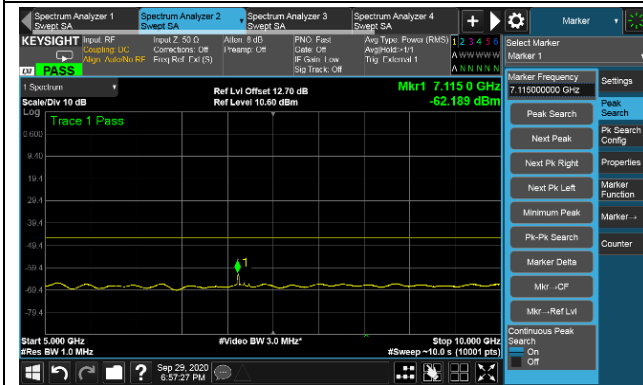
QPSK Low channel



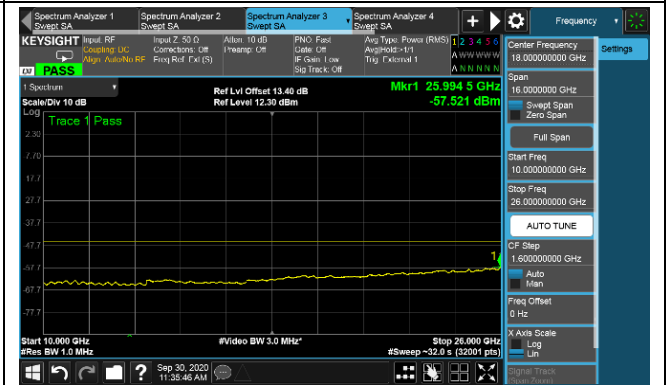
QPSK Low channel



QPSK Low channel



QPSK Low channel



QPSK Low channel



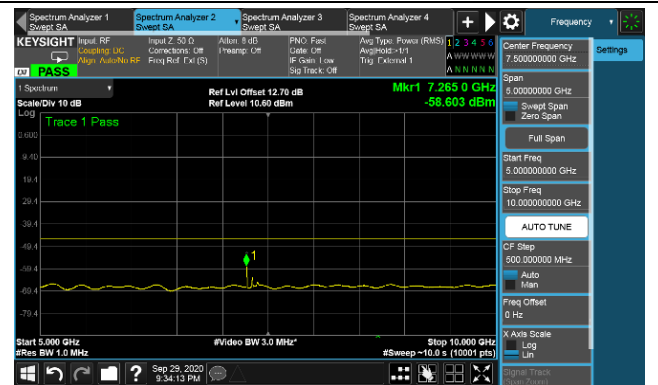
QPSK High channel



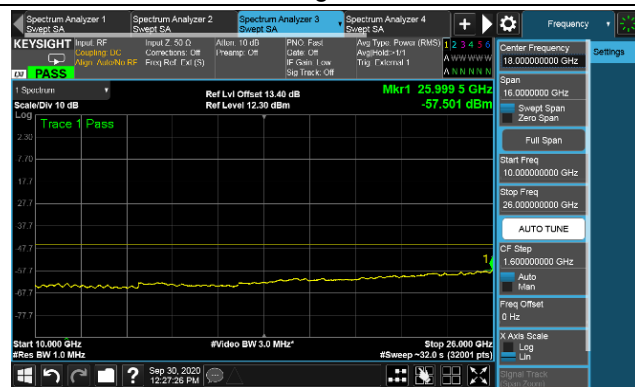
QPSK High channel



QPSK High channel



QPSK High channel

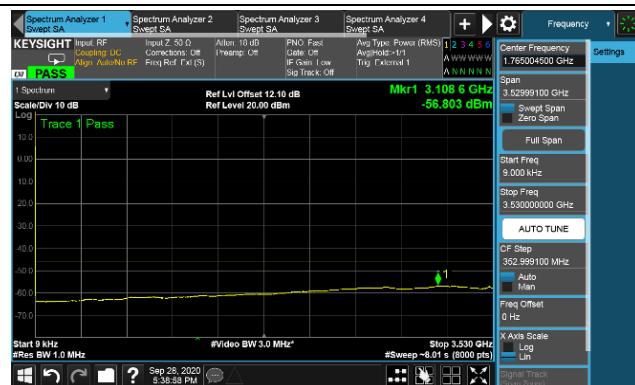


QPSK High channel

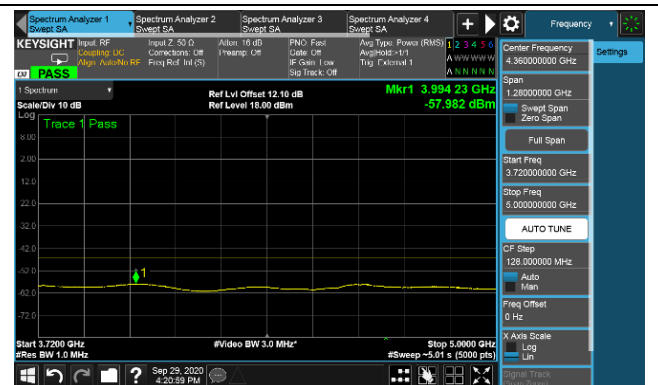


LTE TDD Band 48 Intra-band CA non-continuous, Nominal Bandwidth: 5M+20M

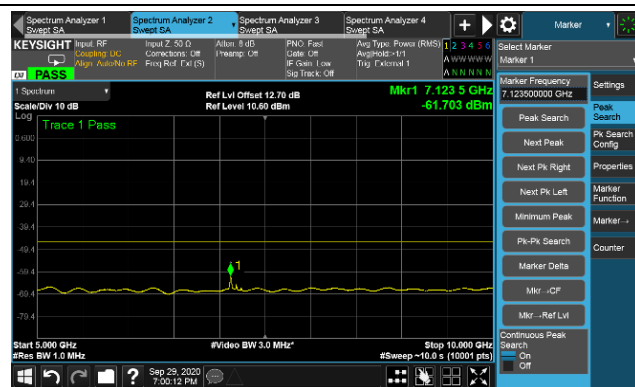
QPSK Low channel



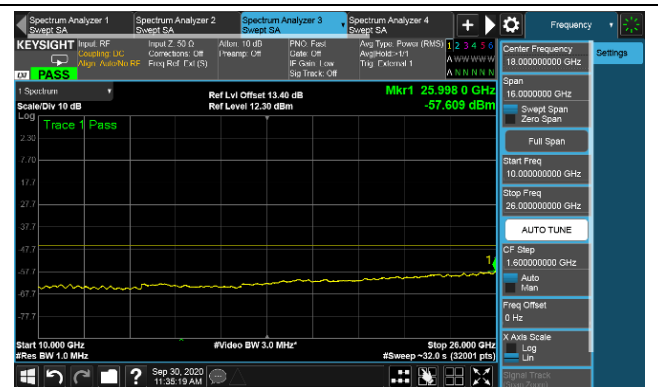
QPSK Low channel



QPSK Low channel



QPSK Low channel



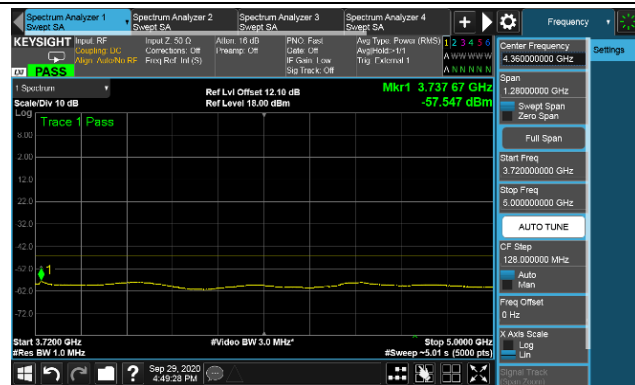
QPSK Low channel



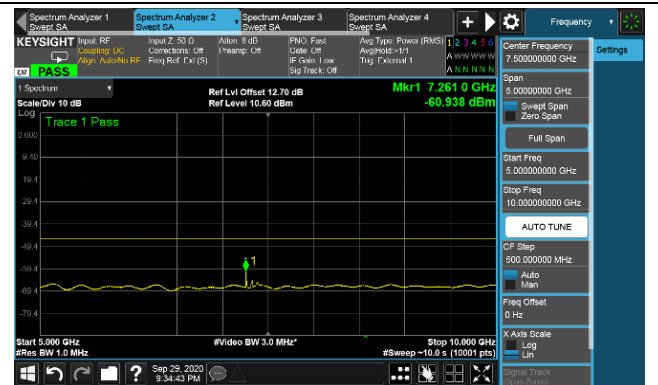
QPSK High channel



QPSK High channel



QPSK High channel



QPSK High channel



QPSK High channel



LTE TDD Band 48 Intra-band CA non-continuous, Nominal Bandwidth: 10M+15M

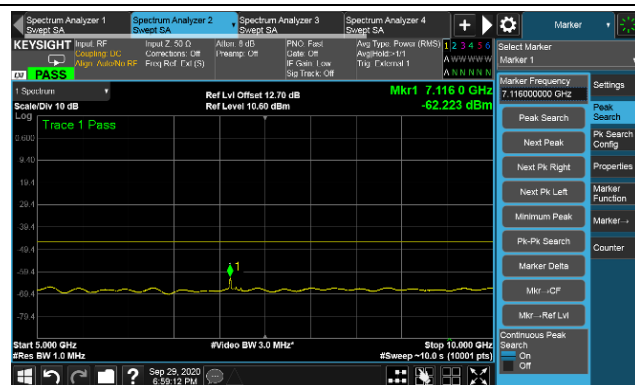
QPSK Low channel



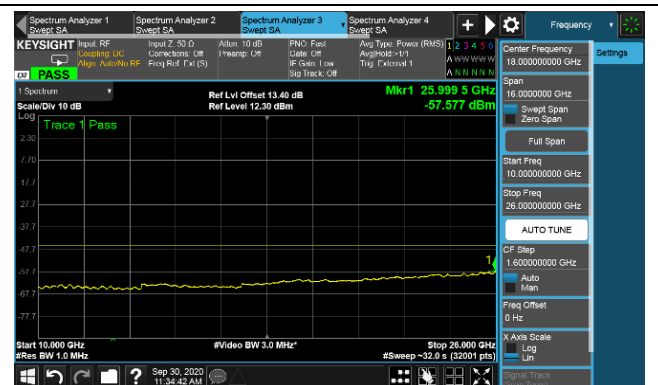
QPSK Low channel



QPSK Low channel



QPSK Low channel



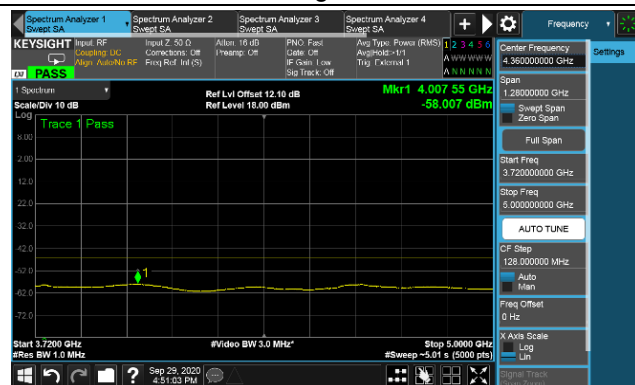
QPSK Low channel



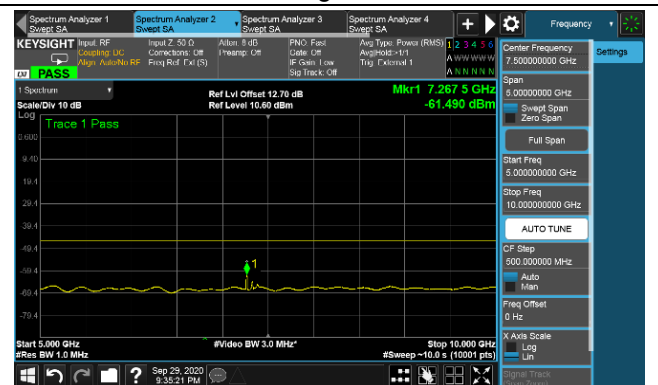
QPSK High channel



QPSK High channel



QPSK High channel



QPSK High channel



QPSK High channel



LTE TDD Band 48 Intra-band CA non-continuous, Nominal Bandwidth: 10M+20M

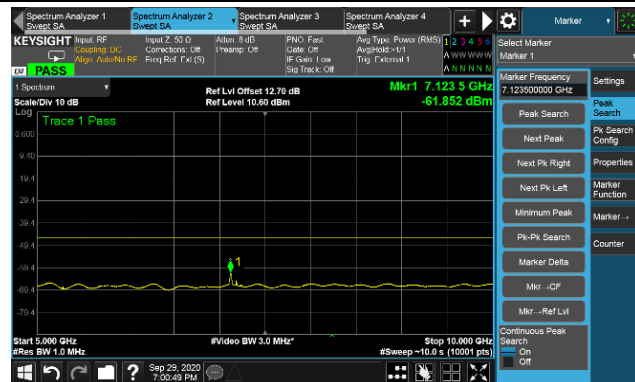
QPSK Low channel



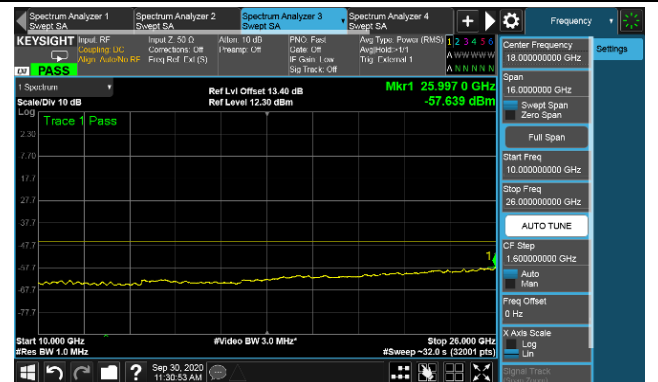
QPSK Low channel



QPSK Low channel



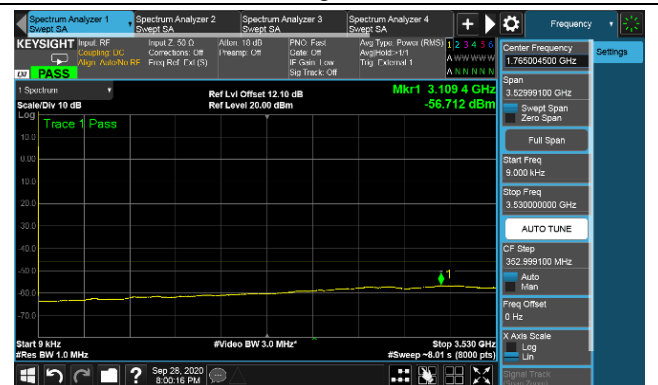
QPSK Low channel



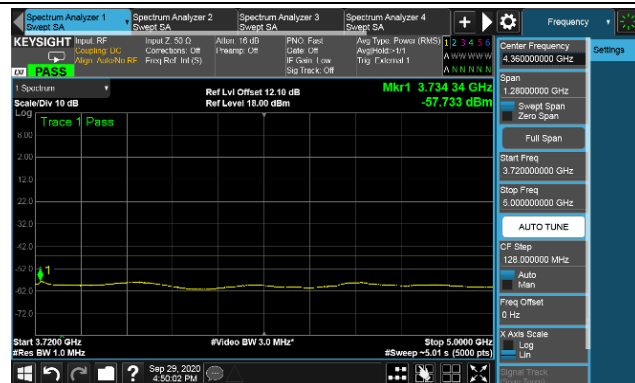
QPSK Low channel



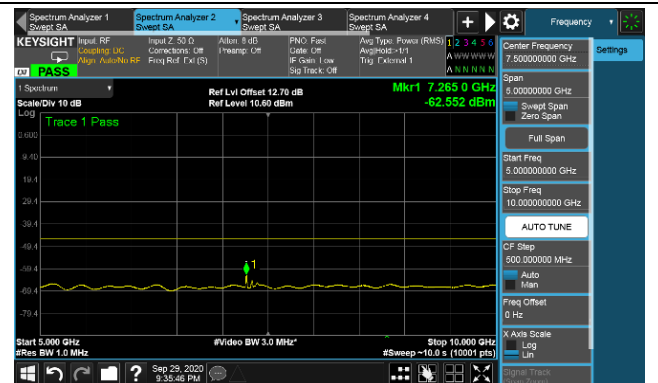
QPSK High channel



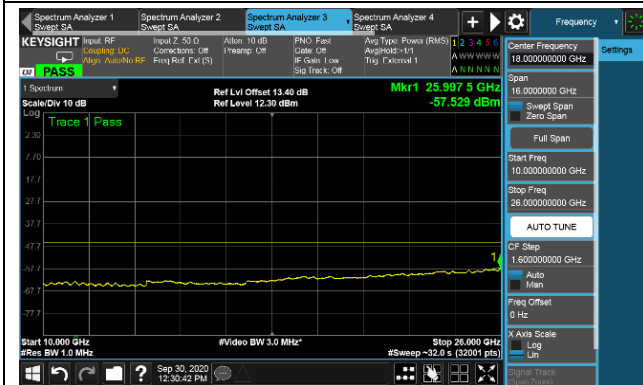
QPSK High channel



QPSK High channel



QPSK High channel

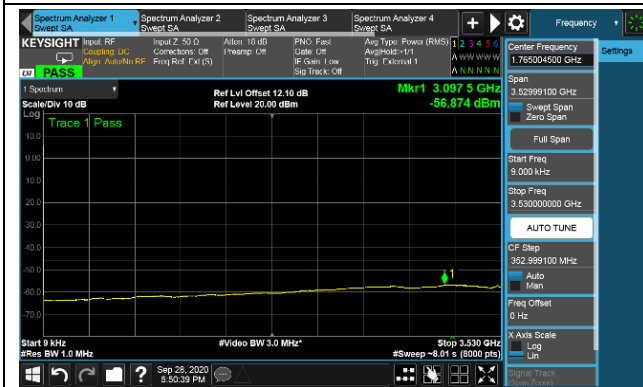


QPSK High channel



LTE TDD Band 48 Intra-band CA non-continuous, Nominal Bandwidth: 15M+20M

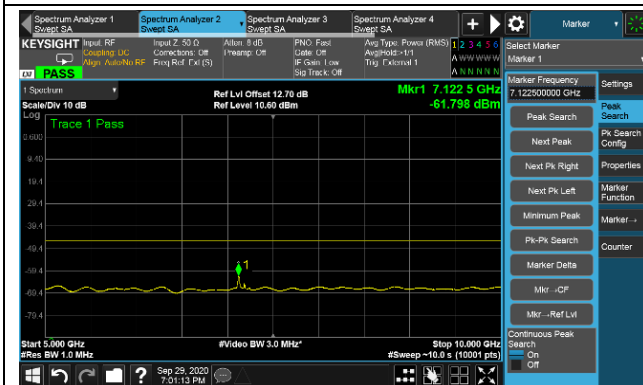
QPSK Low channel



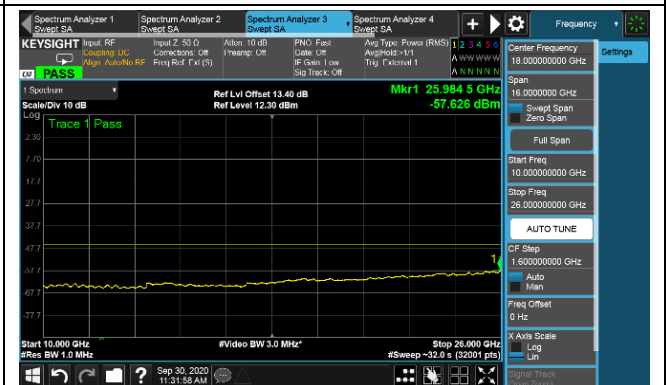
QPSK Low channel



QPSK Low channel



QPSK Low channel



QPSK Low channel



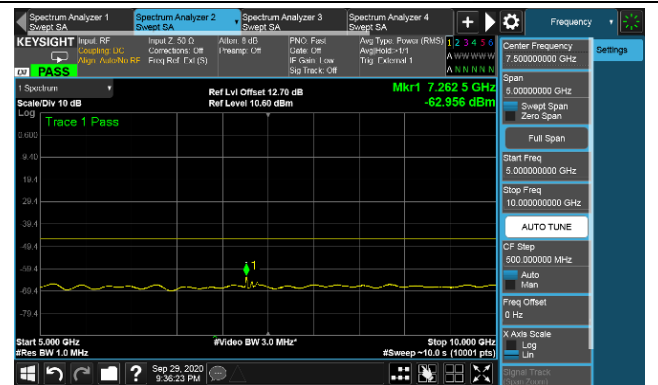
QPSK High channel



QPSK High channel



QPSK High channel



QPSK High channel

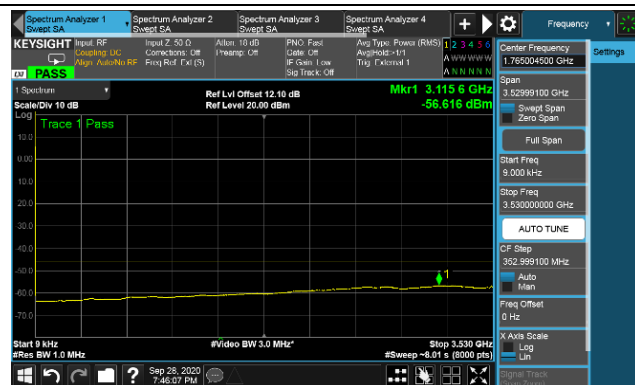


QPSK High channel



LTE TDD Band 48 Intra-band CA non-continuous, Nominal Bandwidth: 5M+10M+15M

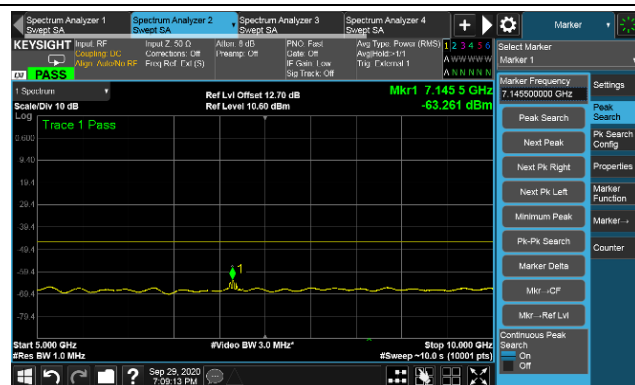
QPSK Low channel



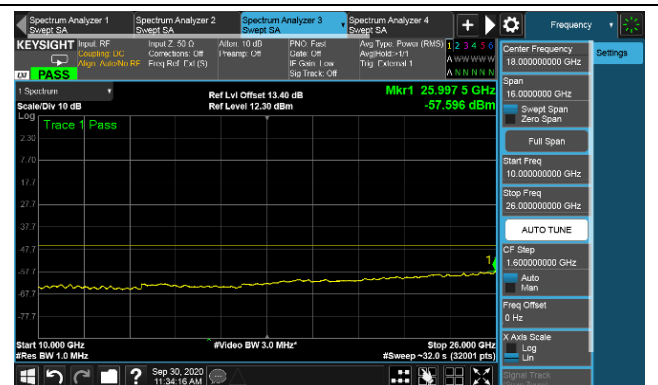
QPSK Low channel



QPSK Low channel



QPSK Low channel



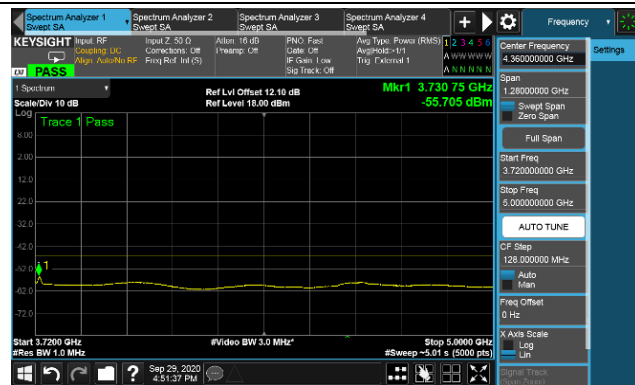
QPSK Low channel



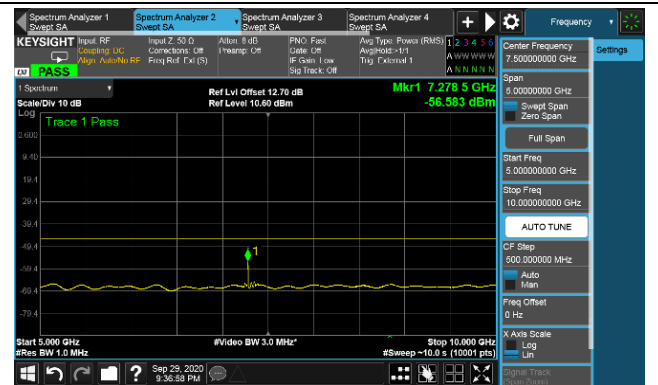
QPSK High channel



QPSK High channel



QPSK High channel



QPSK High channel

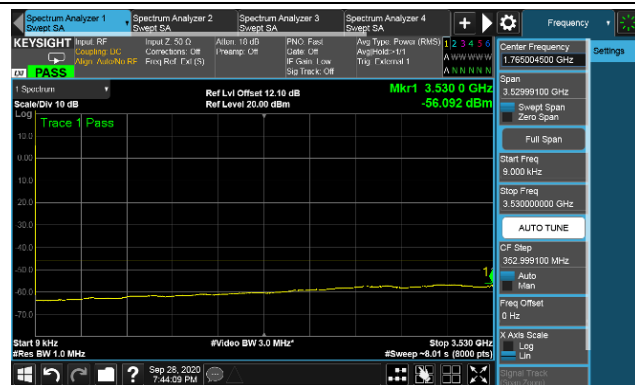


QPSK High channel



LTE TDD Band 48 Intra-band CA non-continuous, Nominal Bandwidth: 5M+10M+20M

QPSK Low channel



QPSK Low channel



The screenshot displays a Spectrum Analyzer software interface. At the top, there are four tabs for different signal sources: Spectrum Analyzer 1 (Sweep SA), Spectrum Analyzer 2 (Sweep SA), Spectrum Analyzer 3 (Sweep SA), and Spectrum Analyzer 4 (Sweep SA). The first tab is active, showing a signal source of 'RF' and a frequency of '7.160 5 GHz'. The main display area shows a trace of the signal, with a peak labeled 'Mkr1 7.160 5 GHz -63.415 dBm'. The interface includes various control panels for settings, markers, and measurements. The bottom status bar shows the current frequency range from 5.000 GHz to 10.000 GHz, a resolution bandwidth of 10.0 kHz, and a video bandwidth of 3.0 MHz.

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

- Top Panel:** Four tabs labeled "Spectrum Analyzer 1 Sweet SA", "Spectrum Analyzer 2 Sweet SA", "Spectrum Analyzer 3 Sweet SA", and "Spectrum Analyzer 4 Sweet SA".
- Left Panel:**
 - KEYSTONE:** Includes "Input RF" (Coaxial UG), "Align Auto/No RF", and "Align Auto/No RF".
 - Scale/Div 10 dB**
 - Log**
 - Trace 1 Pass**
 - Start 10.000 GHz**
 - Ref BW 1.0 MHz**
- Center Panel:**
 - Ref Lvl Offset 13.40 dBm**
 - Ref Level 12.30 dBm**
 - #Video BW 3.0 MHz***
- Right Panel:**
 - Frequency:** 12 3 4 5 0, A W W W W, A N N N N N
 - Center Frequency:** 18.00000000 GHz
 - Span:** 16.00000000 GHz
 - Span:** Sweep Span, Zero Span
 - Full Span**
 - Start Freq:** 10.000000000 GHz
 - Stop Freq:** 26.000000000 GHz
 - AUTO TUNE**
 - CP Step:** 1.600000000 GHz
 - Auto:** Auto, Man
 - Freq Offset:** 0 Hz
 - X Axis:** Log, Lin
 - Signal Track:** #Sweep 32.0 s (32001 pts)
- Bottom Panel:** Windows taskbar showing the date "Sep 30, 2020" and time "11:33:35 AM".

[illegible]

The screenshot displays the Keysight Spectrum Analyzer interface. The main display area shows a trace labeled "Trace 1 Pass" on a grid. The frequency scale is from 0 kHz to 3.530 GHz. The signal is centered at 3.125 GHz with a bandwidth of 6 GHz. The trace shows a flat line at -60 dBm with a small peak at 3.125 GHz. The interface includes various control panels for input, output, and measurement settings.

Top Panel:

- Spectrum Analyzer 1: Swept SA
- Spectrum Analyzer 2: Swept SA
- Spectrum Analyzer 3: Swept SA
- Spectrum Analyzer 4: Swept SA
- Frequency: 3.125 GHz
- Center Frequency: 1.765004500 GHz

Left Panel:

- KEYSIGHT
- Input RF: Coupling: UC
- Align: Auto
- Scale/Div: 10 dB
- Log
- Trace 1 Pass
- Start 0 kHz
- Res BW 1.0 MHz

Right Panel:

- Settings
- Span: 3.62999100 GHz
- Start Freq: 9.000 kHz
- Stop Freq: 3.630000000 GHz
- AUTO TUNE
- CP Slip: 352.999100 MHz
- Auto Man
- Freq Offset: 0 Hz
- X Axis: Log
- Lin
- Signal Track

Bottom Panel:

- #Video BW 3.0 MHz
- Stop 3.530 GHz
- Sweep: 8.01 s (8000 pts)

QPSK modulated signal

KEYSIG Input RF: Video BW 3.0 MHz, Res BW 1.0 MHz, Span 3.0 MHz, Freq 3.73152 GHz, Level -66.183 dBm, Modulation: QPSK, Constellation: QPSK, Error: 0.000000, Eye: 0.000000, Margin: 0.000000, Noise: 0.000000, Power: 0.000000, Rate: 0.000000, Type: QPSK, Format: 1/1, Tilt: 0.000000, Trig: External 1

1 Spectrum Ref Lvl Offset 12.10 dB Ref Level 16.00 dBm

Scale/Div 10 dB Log

Trace 1 Pass

Start 3.720 GHz #Video BW 3.0 MHz* **Stop 5.000 GHz**

Res BW 1.0 MHz **sSweep -0.01 (5000 pps)**

Center Frequency 4.360000000 GHz **Settings**

Span 1.280000000 GHz

Start Freq 3.720000000 GHz

Stop Freq 5.000000000 GHz

AUTO TUNE

CF Step 128.0000000 MHz

Auto Man

Freq Offset 0 Hz

X Axis Scale Log Lin

Signal Track

The screenshot displays a Keysight Spectrum Analyzer interface. The main window shows a trace of a QPSK signal with a peak at 7.2775 GHz. The interface is divided into several sections:

- Top Panel:** Contains four spectrum analyzer modules (Spectrum Analyzer 1 to 4) and a central navigation area with a plus sign and a right arrow.
- Left Panel:** Includes the 'KEYSIGHT' logo, input settings (Input RF, Correlation UC, Magn. Auto/No RF), and a 'PASS' indicator.
- Right Panel:** Contains settings for Frequency (7.50000000 GHz), Span (5.00000000 GHz), Start Freq (5.000000000 GHz), Stop Freq (10.000000000 GHz), and other parameters like CF Step, Freq Offset, and X Axis Scale.
- Main Display:** Shows a trace with a peak at 7.2775 GHz. The peak is labeled '1' and has a value of -56.835 dBm. The trace is labeled 'Trace 1 Pass'.
- Bottom Panel:** Includes a status bar with the date and time (Sep 29, 2020 9:37:31 PM), a signal track indicator, and a 'Signal Track' button.

[illegible]

The screenshot displays a Spectrum Analyzer software interface for QPSK channel analysis. The main window shows a frequency spectrum plot with a peak at 39.270 GHz, labeled 'Mkr1' with a power of -51.643 dBm. The interface includes several control panels:

- Top Panel:** Four spectrum analyzer windows (Sweep SA) and a central frequency display showing 39.27000000 GHz.
- Left Panel:** 'KEYSIGHT' logo, input settings (Input RF, Input Z: 50 Ohm), and a 'PASS' filter selection.
- Right Panel:** 'Settings' tab with various parameters including Center Frequency, Span, Start Freq, Stop Freq, and Auto Tune options.
- Bottom Panel:** Scale/Div 10 dB, Log, and a video bandwidth of 3.0 MHz.