

LTE Cat M Appendix-Band-edge

LTE FDD Band 2, Nominal Bandwidth: 1.4MHz

QPSK Low channel-1 RB offset 0



16QAM Low channel-1 RB offset 0



QPSK Low channel-6 RB offset 0



16QAM Low channel-5 RB offset 0



QPSK High channel-1 RB offset max



16QAM High channel-1 RB offset max



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

- Top Bar:** Spectrum Analyzer 1, Span: 50 MHz, Transmitter On/Off Power, and a settings gear icon.
- Left Panel (KEYSIGHT):** Includes buttons for Input RF, Output DC, and various measurement settings like Span, Span, and Full Span.
- Top Right Panel:** Center Frequency: 1.910000000 GHz, Span: 5.000000000 MHz, Sweep Span: Zero Span, Full Span, and a Sweep Preset menu.
- Main Display:** A spectrum plot showing a signal trace. The peak is labeled with a red arrow and the value -34.504 dBm. The plot shows a signal rising from a noise floor, peaking at -34.504 dBm, and then falling back into the noise floor.
- Bottom Panel:** Center: 1.910000 GHz, Span: 5.000 MHz, CF Step: 500.000 MHz, Sweep: -7.33 ms (1001 pts), and a Marker Table.
- Marker Table:** A table with columns: Mode, Trace, Scale, X, Y, Function, Function Width, and Function Value. It shows a single marker at X: 1.910000 GHz, Y: -34.50 dBm.
- Bottom Right Panel:** Includes buttons for AUTO TUNE, CF Step, Span, and a Signal Trace (Scan Zoom) button.

The screenshot displays the Keysight Spectrum Analyzer 1 interface. The main display shows a signal trace with a peak at 1.910 GHz and -36.977 dBm. The frequency scale is 5.000 MHz, and the span is 5.000 MHz. The center frequency is 1.91000000 GHz. The video bandwidth is 100 kHz, and the resolution bandwidth is 30 kHz. The sweep time is 7.33 ms (1001 pts). The interface includes various control panels for settings, markers, and display options.

Top Panel:

- Spectrum Analyzer 1:** Sweep A, SG NR 3, Transmute On/Off Power, +
- Frequency:** Center Frequency 1.91000000 GHz, Settings

Left Panel:

- KEYSIGHT:** Input Ref, Output DG, Magn. Auto
- Input:** Input 2: 50 Ω, Conn: Coax, Ref: Ref In (S), NF: Off
- Video:** Video 24 dB, Preset: Off, Gain: Off, Gain: Low, Trig: Free Run
- Resolution:** Avg: Hold 100/100, Trig: Free Run

Main Display:

- Scale/Div:** 10 dB
- Ref Lvl Offset:** 14.24 dB
- Ref Level:** 24.24 dBm
- Marker 1:** 1.910 GHz, -36.977 dBm
- Center:** 1.910000 GHz
- Span:** 5.000 MHz
- Resolution:** #Video BW 100 kHz
- Sweep:** 7.33 ms (1001 pts)

Right Panel:

- Center Frequency:** 1.91000000 GHz
- Span:** 5.00000000 MHz
- Sweep Span:** Sweep Span, Zero Span
- Full Span:** Full Span
- Start Freq:** 1.907500000 GHz
- Stop Freq:** 1.912500000 GHz
- AUTO TUNE:** AUTO TUNE
- CF Stop:** 500.000 MHz
- Auto Man:** Auto Man
- Proc Offset:** 0 Hz
- X-Axis Scale:** Log, Lin
- Signal Track:** (Soft Zoom)

Bottom Panel:

- Marker Table:**

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N		1.910000 GHz	-36.977 dBm			
2							
3							
4							
5							
6							
- System:** Jul 05, 2024, 3:32:15 AM
- Navigation:** Home, Back, Forward, Help, Zoom In, Zoom Out, Pan, Rotate

QPSK low channel-1 RB offset 0	16QAM low channel-1 RB offset 0
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Spectrum Analyzer 1
Sweep SA

KEYSIGHT Input RF: **Power** **ON**
 RL → **Power** **ON**
 ML **Mag** **Auto**

SG NR 3 Transmit On/Off Power **+**

Ref: 20 dB
 Center Freq: 1.850000 GHz
 Span: 5.000 MHz
 Res BW: 100 kHz
 S-Mark: 10 dB

Ref Lvl Offset: 14.24 dB
 Ref Level: 24.24 dBm

Mkr1 1.850 000 GHz
-40.308 dBm

Center Frequency
 1.850000000 GHz
 A W w w w w
 A N N N N N

Span
 5.000000000 MHz

Sweep Span
 2.000000000 MHz

Full Span

Start Freq
 1.847500000 GHz

Stop Freq
 1.852500000 GHz

AUTO TUNE

Center 1.8500000 GHz
Span 5.000 MHz
Res BW 100 kHz
Sweep 7.33 ms (1001 pts)

S-Mark: 10 dB

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	1.850000 GHz	-40.31 dBm			
2							
3							
4							
5							
6							

Ref Offset
 0 Hz

X-Axis Scale
 Log
 Lin

Signal Trace
 Log
 Lin

Local

[illegible][illegible]

QPSK High channel-1 RB offset max



16QAM High channel-1 RB offset max



QPSK High channel-6 RB offset 0



16QAM High channel-5 RB offset 0



LTE FDD Band 2, Nominal Bandwidth: 5MHz

QPSK Low channel-1 RB offset 0



16QAM Low channel-1 RB offset 0



QPSK Low channel-6 RB offset 0



16QAM Low channel-5 RB offset 0



QPSK High channel-1 RB offset max



16QAM High channel-1 RB offset max



QPSK High channel-6 RB offset 0



16QAM High channel-5 RB offset 0



LTE FDD Band 2, Nominal Bandwidth: 10MHz

QPSK Low channel-1 RB offset 0



16QAM Low channel-1 RB offset 0



QPSK Low channel-6 RB offset 0



16QAM Low channel-5 RB offset 0



QPSK High channel-1 RB offset max



16QAM High channel-1 RB offset max



QPSK High channel-6 RB offset 0



16QAM High channel-5 RB offset 0



LTE FDD Band 2, Nominal Bandwidth: 15MHz

QPSK Low channel-1 RB offset 0



16QAM Low channel-1 RB offset 0



QPSK Low channel-6 RB offset 0



16QAM Low channel-5 RB offset 0



QPSK High channel-1 RB offset max



16QAM High channel-1 RB offset max



QPSK High channel-6 RB offset 0



16QAM High channel-5 RB offset 0



LTE FDD Band 2, Nominal Bandwidth: 20MHz

QPSK Low channel-1 RB offset 0



16QAM Low channel-1 RB offset 0



QPSK Low channel-6 RB offset 0



16QAM Low channel-5 RB offset 0



QPSK High channel-1 RB offset max



16QAM High channel-1 RB offset max



QPSK High channel-6 RB offset 0



16QAM High channel-5 RB offset 0



LTE FDD Band 4, Nominal Bandwidth: 1.4MHz

QPSK Low channel-1 RB offset 0



16QAM Low channel-1 RB offset 0



QPSK Low channel-6 RB offset 0



16QAM Low channel-5 RB offset 0



QPSK High channel-1 RB offset max



16QAM High channel-1 RB offset max



QPSK High channel-6 RB offset 0



16QAM High channel-5 RB offset 0



LTE FDD Band 4, Nominal Bandwidth: 3MHz

QPSK Low channel-1 RB offset 0



16QAM Low channel-1 RB offset 0



QPSK Low channel-6 RB offset 0



16QAM Low channel-5 RB offset 0



QPSK High channel-1 RB offset max



16QAM High channel-1 RB offset max



QPSK High channel-6 RB offset 0



16QAM High channel-5 RB offset 0



LTE FDD Band 4, Nominal Bandwidth: 5MHz

QPSK Low channel-1 RB offset 0



16QAM Low channel-1 RB offset 0



QPSK Low channel-6 RB offset 0



16QAM Low channel-5 RB offset 0



QPSK High channel-1 RB offset max



16QAM High channel-1 RB offset max



QPSK High channel-6 RB offset 0



16QAM High channel-5 RB offset 0



LTE FDD Band 4, Nominal Bandwidth: 10MHz

QPSK Low channel-1 RB offset 0



16QAM Low channel-1 RB offset 0



QPSK Low channel-6 RB offset 0



16QAM Low channel-5 RB offset 0



QPSK High channel-1 RB offset max



16QAM High channel-1 RB offset max



QPSK High channel-6 RB offset 0



16QAM High channel-5 RB offset 0



LTE FDD Band 4, Nominal Bandwidth: 15MHz

QPSK Low channel-1 RB offset 0



16QAM Low channel-1 RB offset 0



QPSK Low channel-6 RB offset 0



16QAM Low channel-5 RB offset 0



QPSK High channel-1 RB offset max



16QAM High channel-1 RB offset max



QPSK High channel-6 RB offset 0



16QAM High channel-5 RB offset 0



LTE FDD Band 4, Nominal Bandwidth: 20MHz

QPSK Low channel-1 RB offset 0



16QAM Low channel-1 RB offset 0



QPSK Low channel-6 RB offset 0



16QAM Low channel-5 RB offset 0



QPSK High channel-1 RB offset max



16QAM High channel-1 RB offset max



QPSK High channel-6 RB offset 0



16QAM High channel-5 RB offset 0



LTE FDD Band 5, Nominal Bandwidth: 1.4MHz

QPSK Low channel-1 RB offset 0



16QAM Low channel-1 RB offset 0



QPSK Low channel-6 RB offset 0



16QAM Low channel-6 RB offset 0



QPSK High channel-1 RB offset max



16QAM High channel-1 RB offset max



QPSK High channel-6 RB offset 0



16QAM High channel-5 RB offset 0



LTE FDD Band 5, Nominal Bandwidth: 3MHz

QPSK Low channel-1 RB offset 0



16QAM Low channel-1 RB offset 0



QPSK Low channel-6 RB offset 0



16QAM Low channel-5 RB offset 0



QPSK High channel-1 RB offset max



16QAM High channel-1 RB offset max



QPSK High channel-6 RB offset 0



16QAM High channel-5 RB offset 0



LTE FDD Band 5, Nominal Bandwidth: 5MHz

QPSK Low channel-1 RB offset 0



16QAM Low channel-1 RB offset 0



QPSK Low channel-6 RB offset 0



16QAM Low channel-6 RB offset 0



QPSK High channel-1 RB offset max



16QAM High channel-1 RB offset max



QPSK High channel-6 RB offset 0



16QAM High channel-6 RB offset 0



LTE FDD Band 5, Nominal Bandwidth: 10MHz

QPSK Low channel-1 RB offset 0



16QAM Low channel-1 RB offset 0



QPSK Low channel-6 RB offset 0



16QAM Low channel-5 RB offset 0



QPSK High channel-1 RB offset max



16QAM High channel-1 RB offset max



QPSK High channel-6 RB offset 0



16QAM High channel-5 RB offset 0



LTE FDD Band 12, Nominal Bandwidth: 1.4MHz

QPSK Low channel-1 RB offset 0



16QAM Low channel-1 RB offset 0



QPSK Low channel-6 RB offset 0



16QAM Low channel-5 RB offset 0



QPSK High channel-1 RB offset max



16QAM High channel-1 RB offset max



QPSK High channel-6 RB offset 0



16QAM High channel-5 RB offset 0



LTE FDD Band 12, Nominal Bandwidth: 3MHz

QPSK Low channel-1 RB offset 0



16QAM Low channel-1 RB offset 0



QPSK Low channel-6 RB offset 0



16QAM Low channel-5 RB offset 0



QPSK High channel-1 RB offset max



16QAM High channel-1 RB offset max



QPSK High channel-6 RB offset 0



16QAM High channel-5 RB offset 0



LTE FDD Band 12, Nominal Bandwidth: 5MHz

QPSK Low channel-1 RB offset 0



16QAM Low channel-1 RB offset 0



QPSK Low channel-6 RB offset 0



16QAM Low channel-5 RB offset 0



QPSK High channel-1 RB offset max



16QAM High channel-1 RB offset max



QPSK High channel-6 RB offset 0



16QAM High channel-5 RB offset 0



LTE FDD Band 12, Nominal Bandwidth: 10MHz

QPSK Low channel-1 RB offset 0



16QAM Low channel-1 RB offset 0



QPSK Low channel-6 RB offset 0



16QAM Low channel-5 RB offset 0



QPSK High channel-1 RB offset max



16QAM High channel-1 RB offset max



QPSK High channel-6 RB offset 0

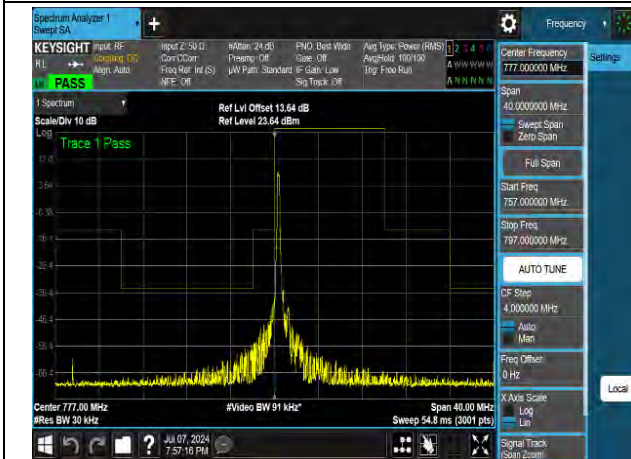


16QAM High channel-5 RB offset 0

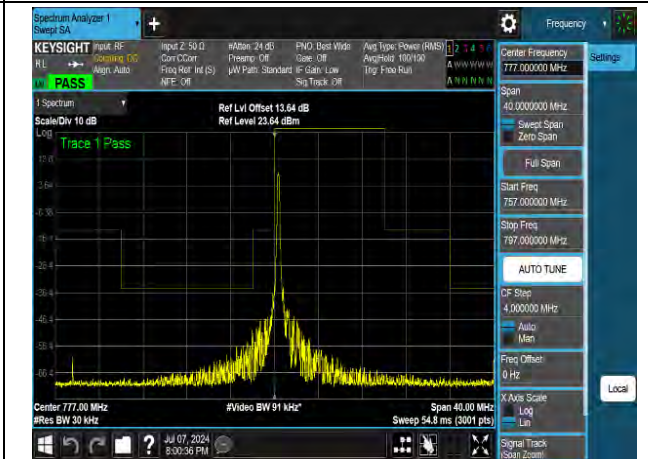


LTE FDD Band 13, Nominal Bandwidth: 5MHz

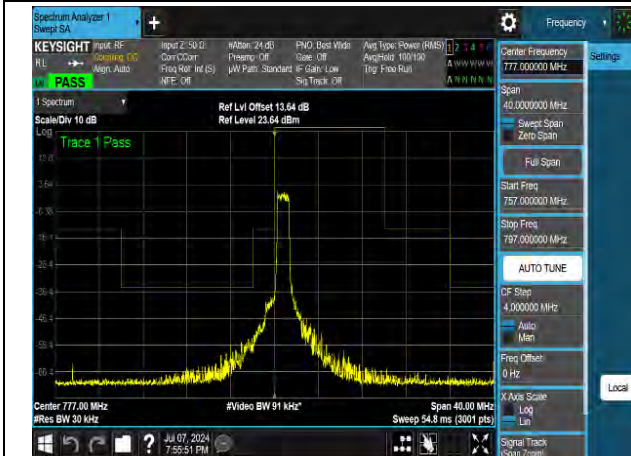
QPSK Low channel-1 RB offset 0



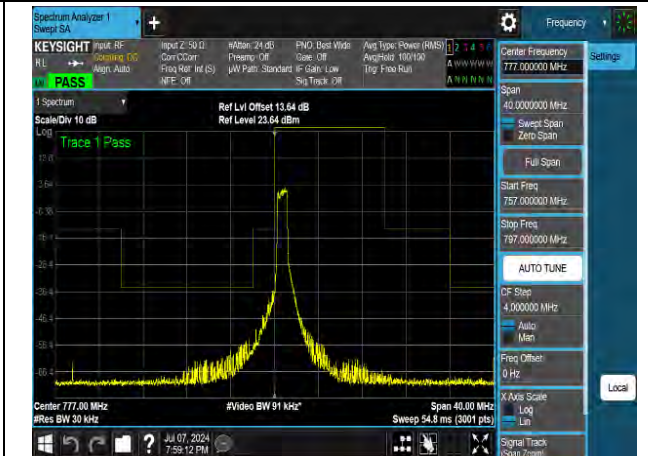
16QAM Low channel-1 RB offset 0



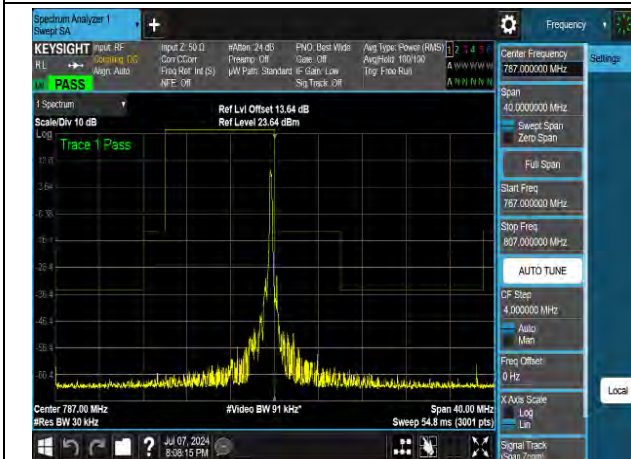
QPSK Low channel-6 RB offset 0



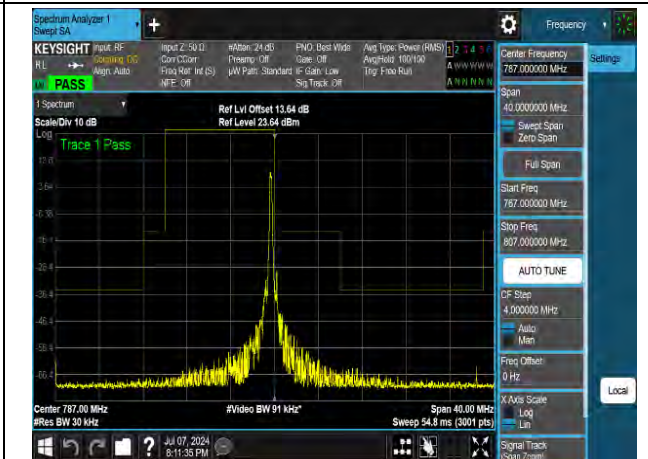
16QAM Low channel-5 RB offset 0



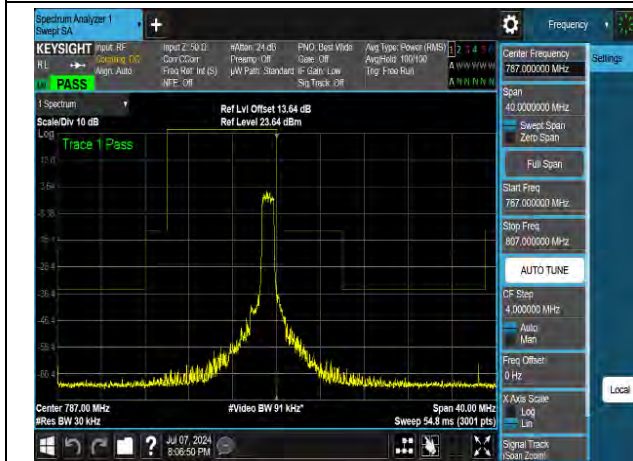
QPSK High channel-1 RB offset max



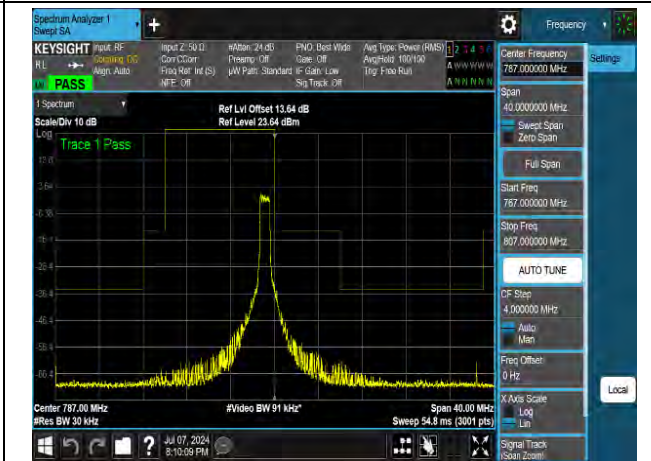
16QAM High channel-1 RB offset max



QPSK High channel-6 RB offset 0

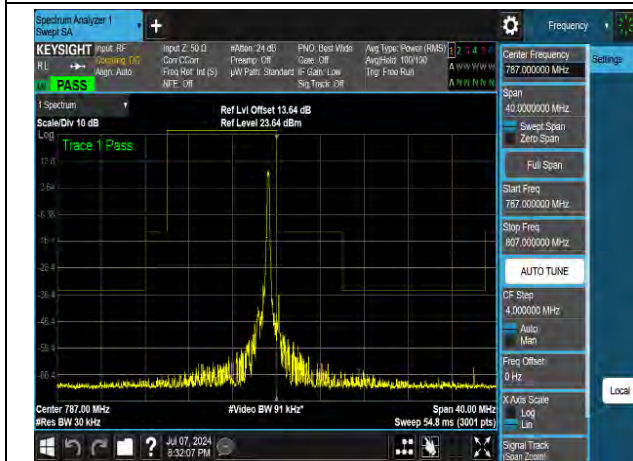


16QAM High channel-5RB offset 0

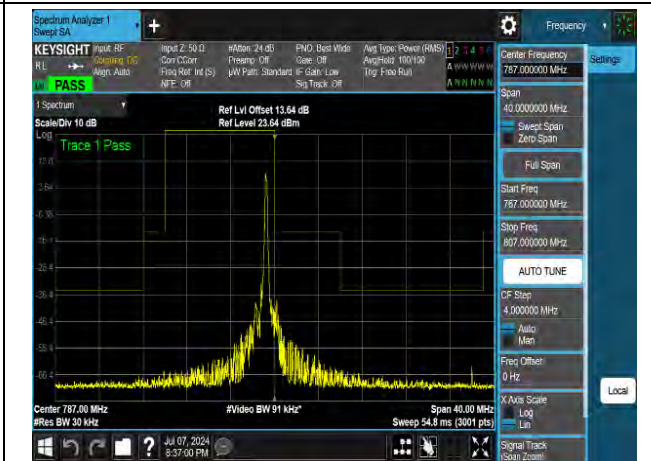


LTE FDD Band 13, Nominal Bandwidth: 10MHz

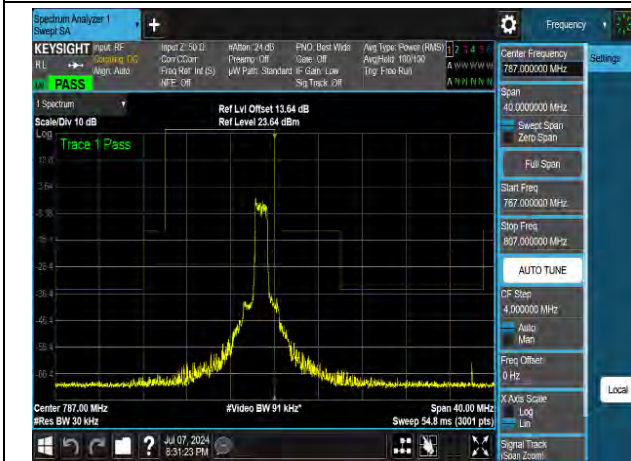
QPSK Low channel-1 RB offset 0



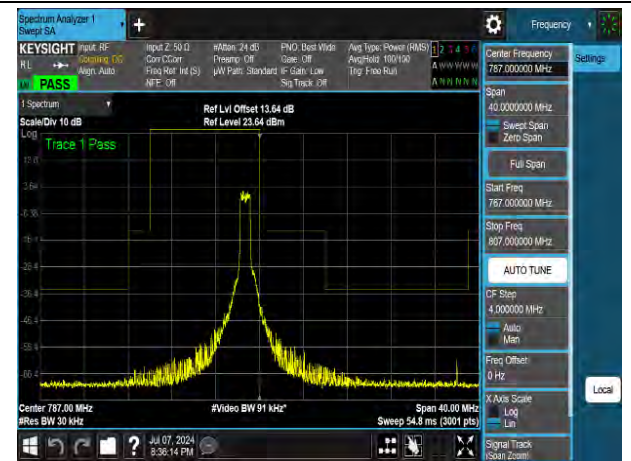
16QAM Low channel-1 RB offset 0



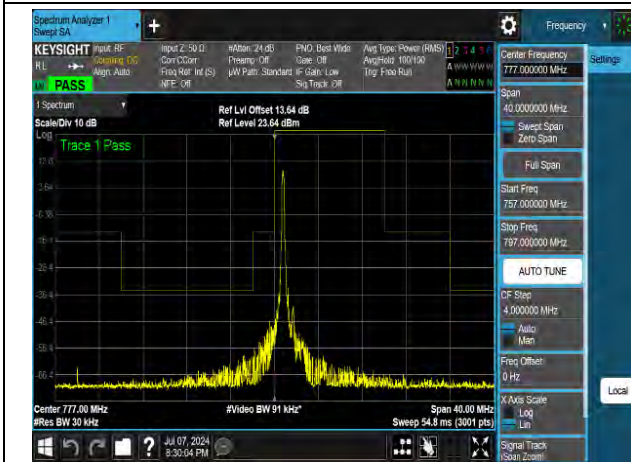
QPSK Low channel-6 RB offset 0



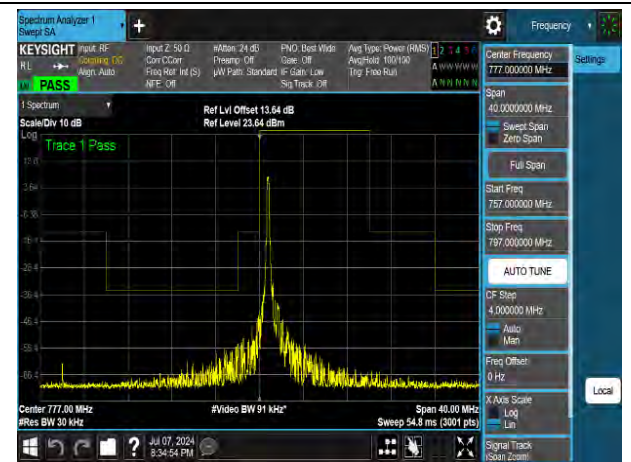
16QAM Low channel-5 RB offset 0



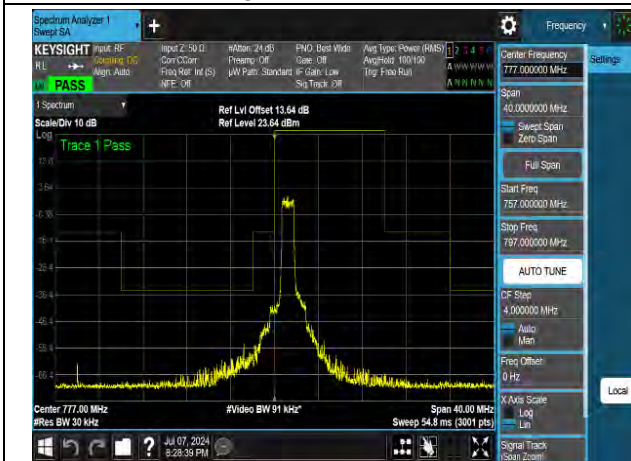
QPSK High channel-1 RB offset max



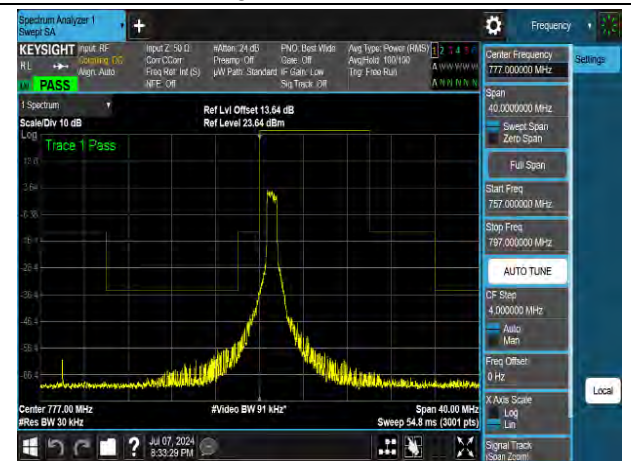
16QAM High channel-1 RB offset max



QPSK High channel-6 RB offset 0



16QAM High channel-5 RB offset 0



LTE FDD Band 14, Nominal Bandwidth: 5MHz

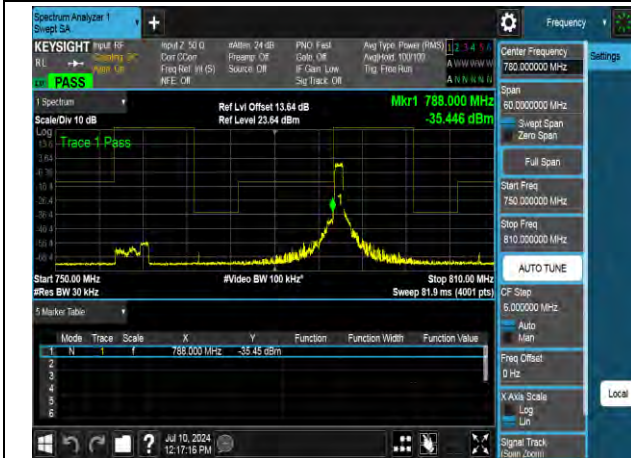
QPSK Low channel-1 RB offset 0



16QAM Low channel-1 RB offset 0



QPSK Low channel-6 RB offset 0



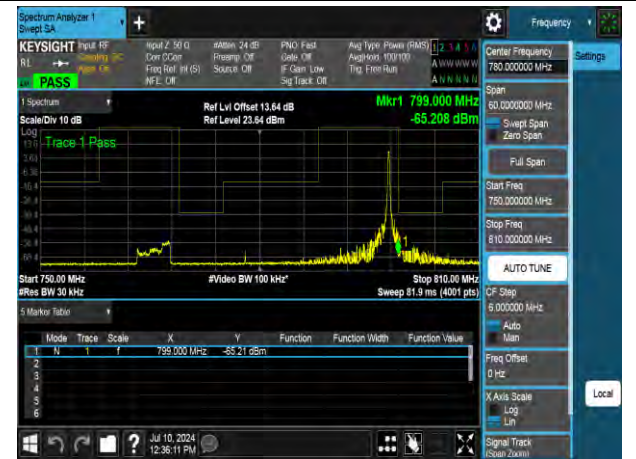
16QAM Low channel-5 RB offset 0



QPSK High channel-1 RB offset max



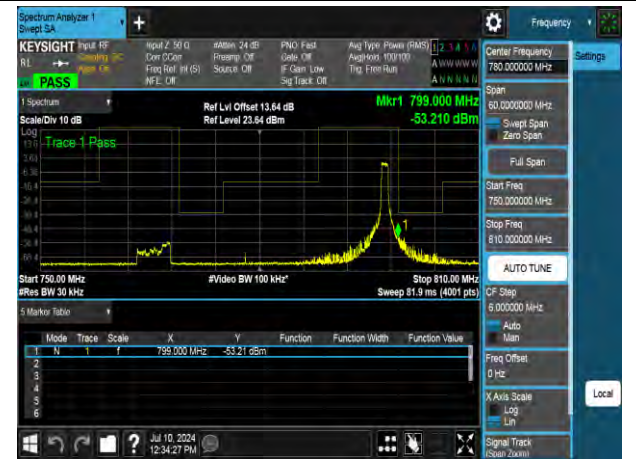
16QAM High channel-1 RB offset max



QPSK High channel-6 RB offset 0



16QAM High channel-5 RB offset 0



LTE FDD Band 14, Nominal Bandwidth: 10MHz

QPSK Low channel-1 RB offset 0



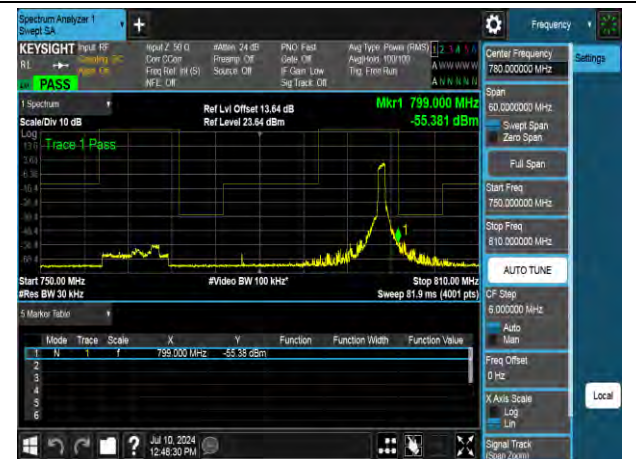
16QAM Low channel-1 RB offset 0



QPSK Low channel-6 RB offset 0



16QAM Low channel-5 RB offset 0



QPSK High channel-1 RB offset max



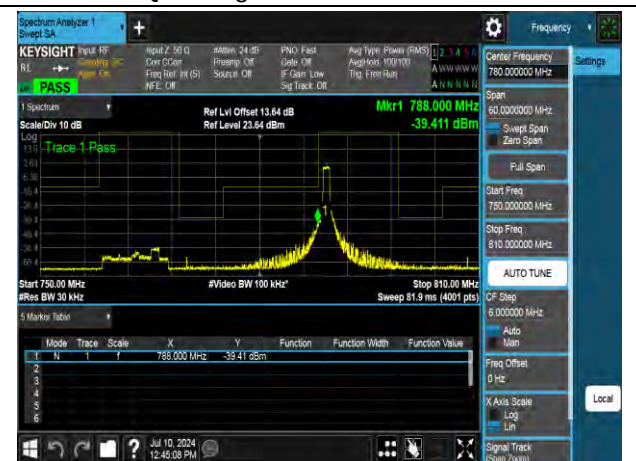
16QAM High channel-1 RB offset max



QPSK High channel-6 RB offset 0



16QAM High channel-5 RB offset 0



LTE FDD Band 25, Nominal Bandwidth: 1.4MHz

QPSK Low channel-1 RB offset 0



16QAM Low channel-1 RB offset 0



QPSK Low channel-6 RB offset 0



16QAM Low channel-5 RB offset 0



QPSK High channel-1 RB offset max



16QAM High channel-1 RB offset max

