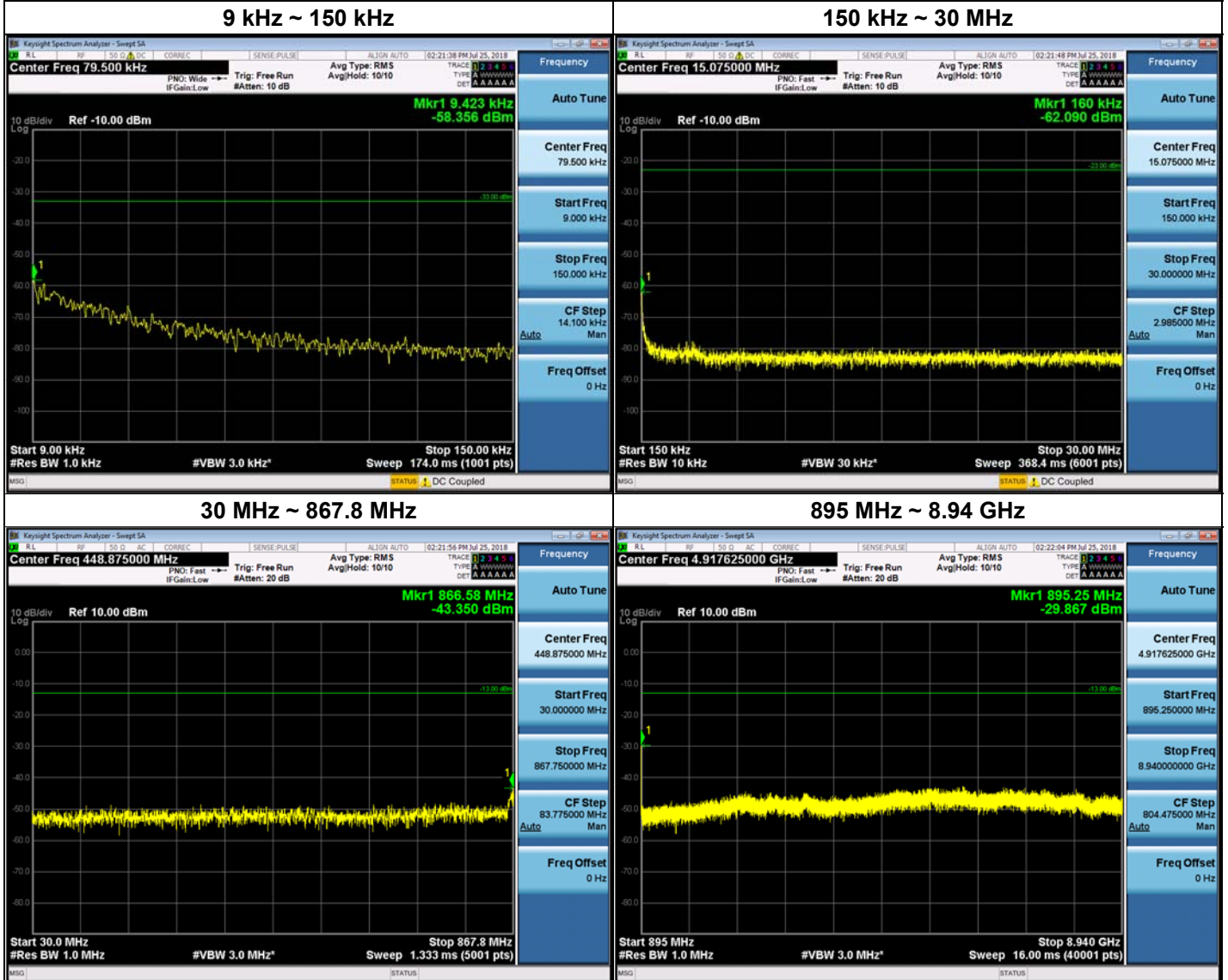
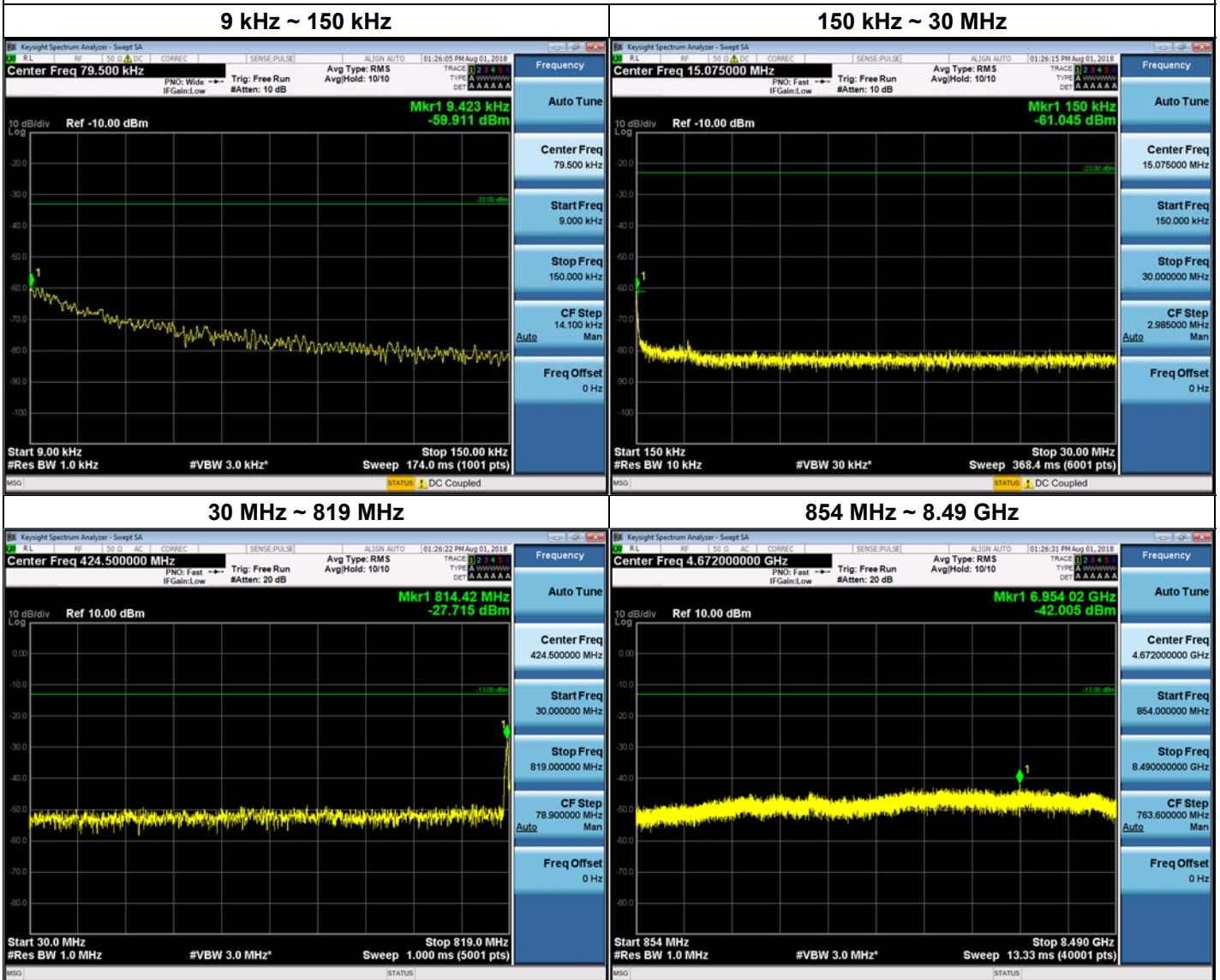


High Channel



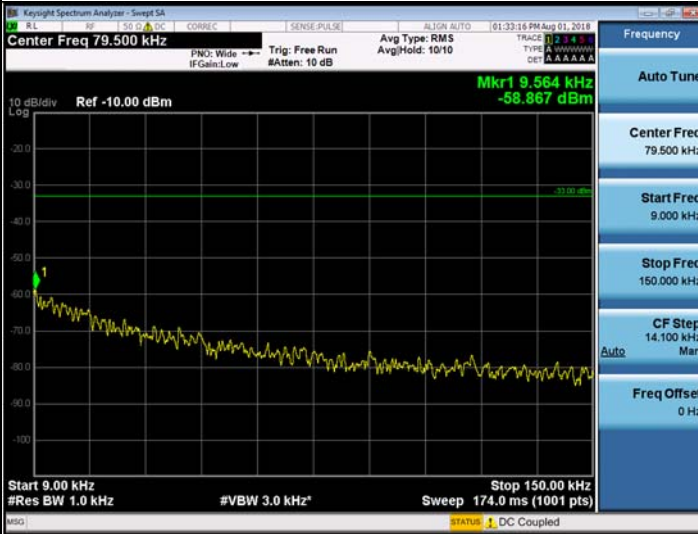
Plot of Unwanted Conducted Emissions for LTE 5 MHz – FCC Part 22 Band_Uplink

Low Channel

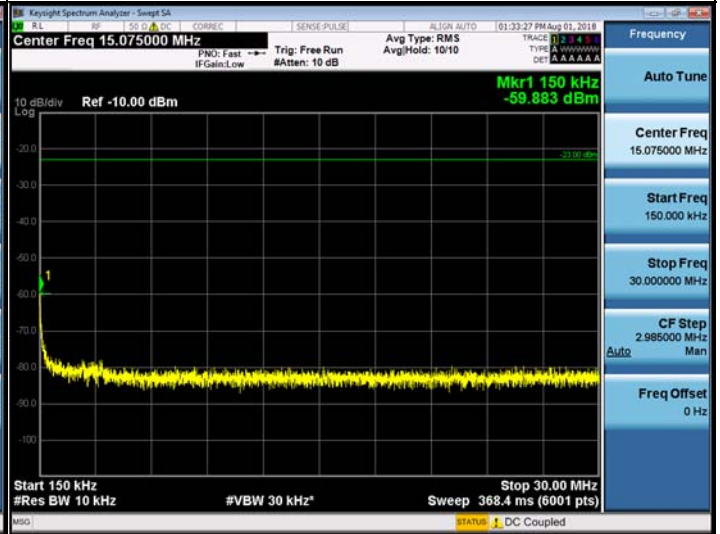


Middle Channel

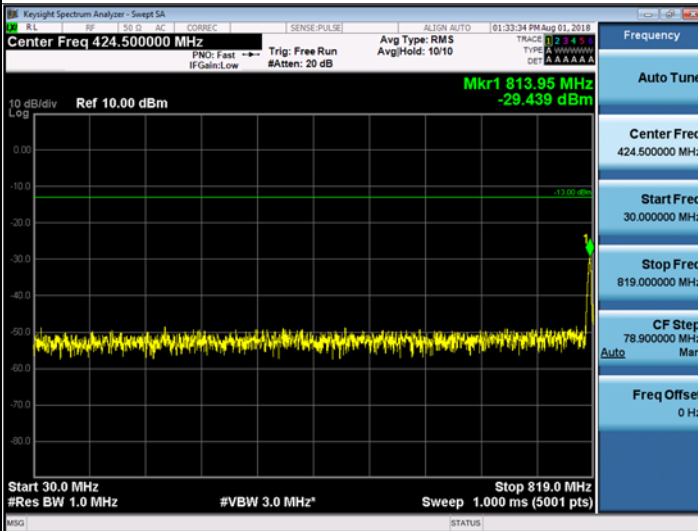
9 kHz ~ 150 kHz



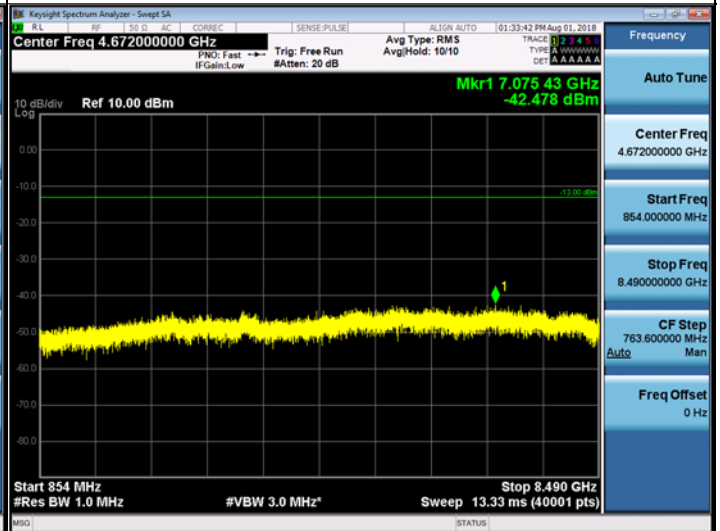
150 kHz ~ 30 MHz



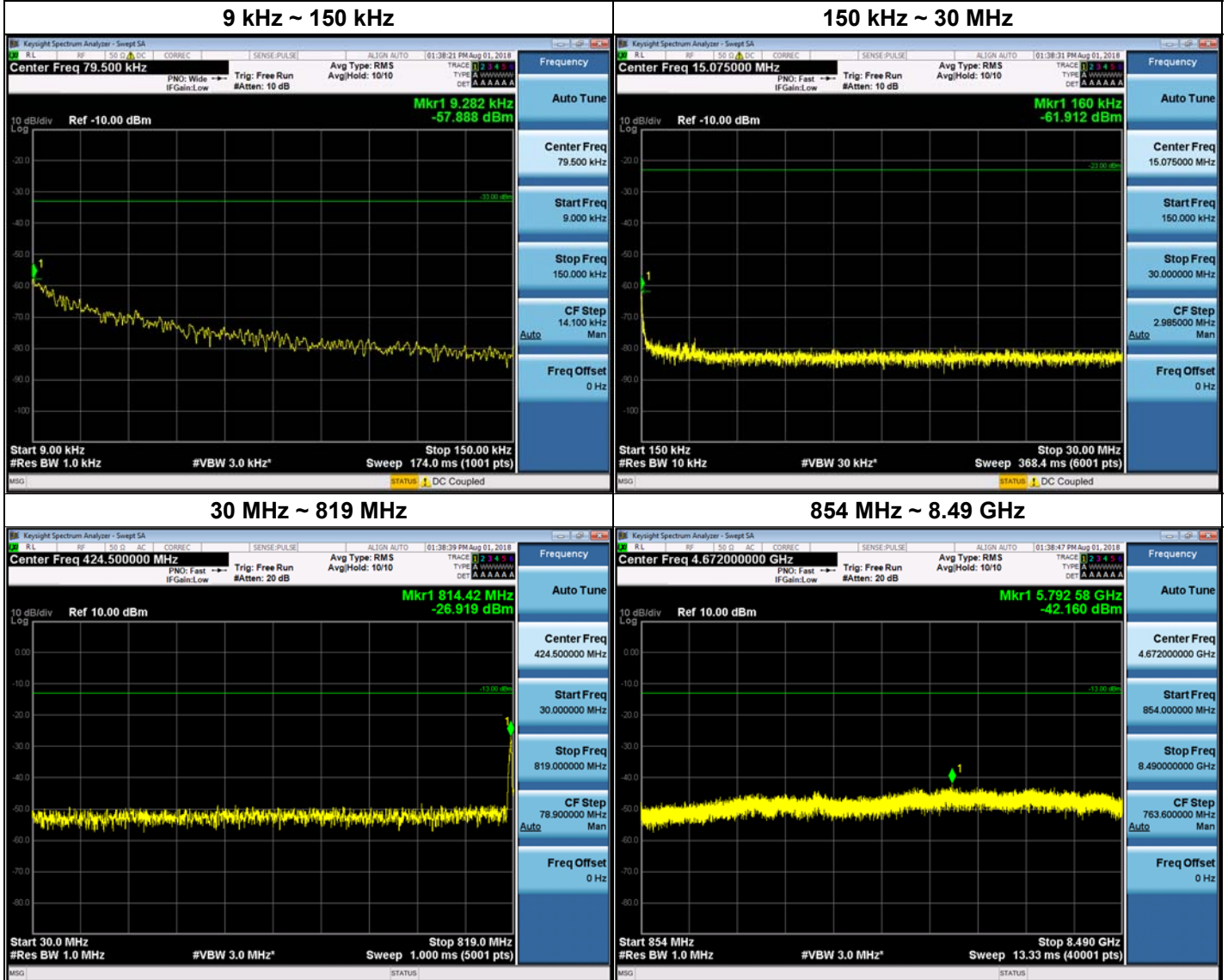
30 MHz ~ 819 MHz



854 MHz ~ 8.49 GHz

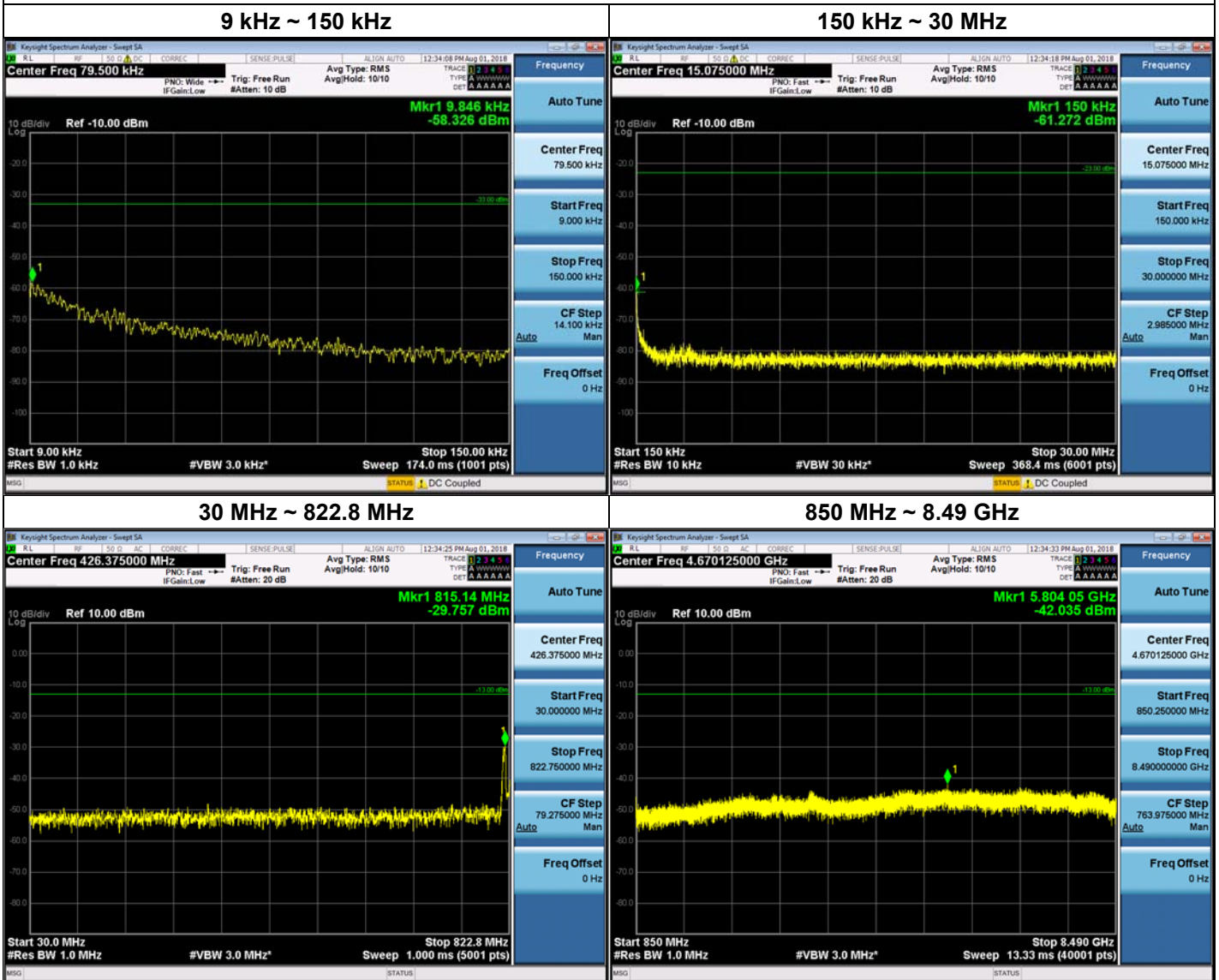


High Channel



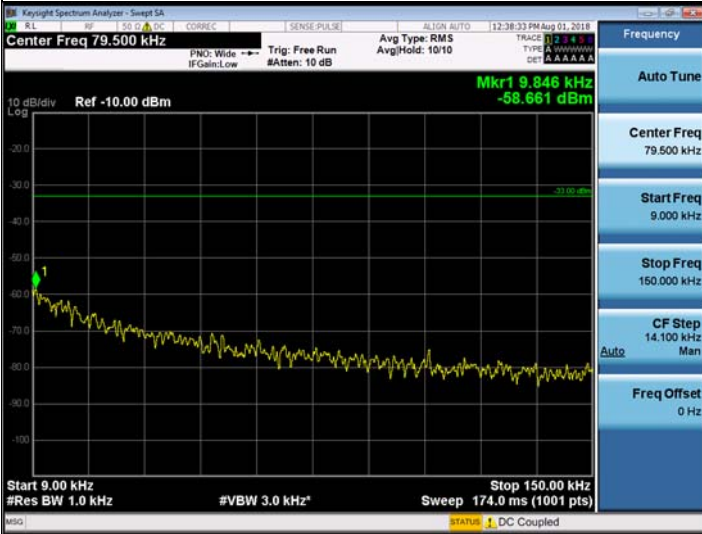
Plot of Unwanted Conducted Emissions for CDMA – FCC Part 22 Band_Uplink

Low Channel

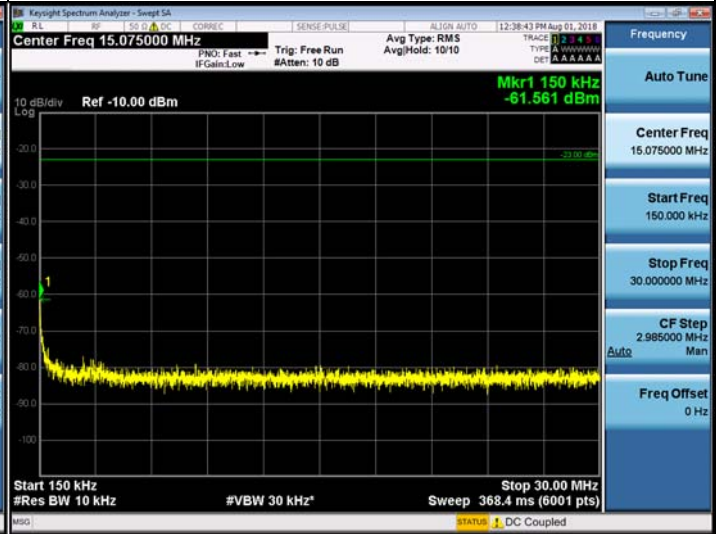


Middle Channel

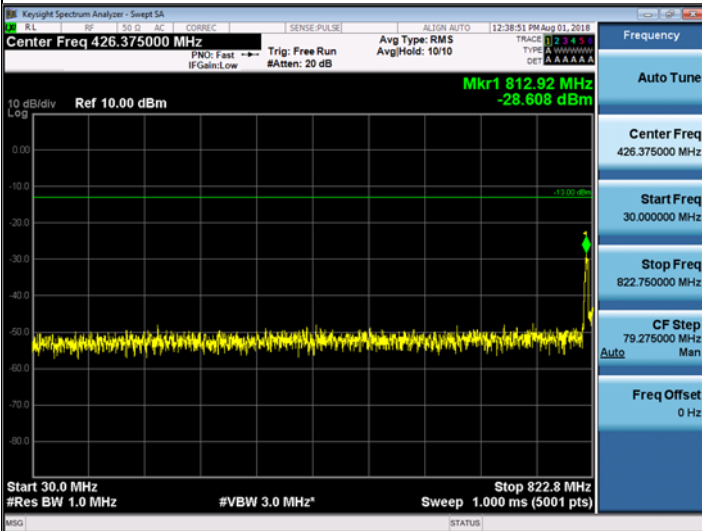
9 kHz ~ 150 kHz



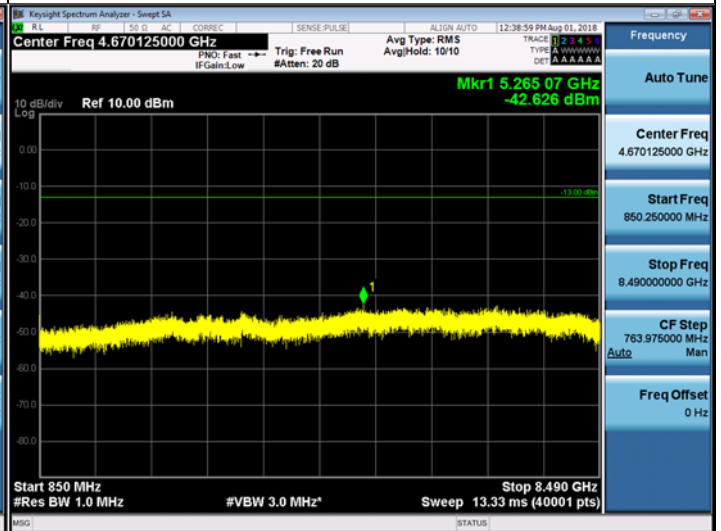
150 kHz ~ 30 MHz



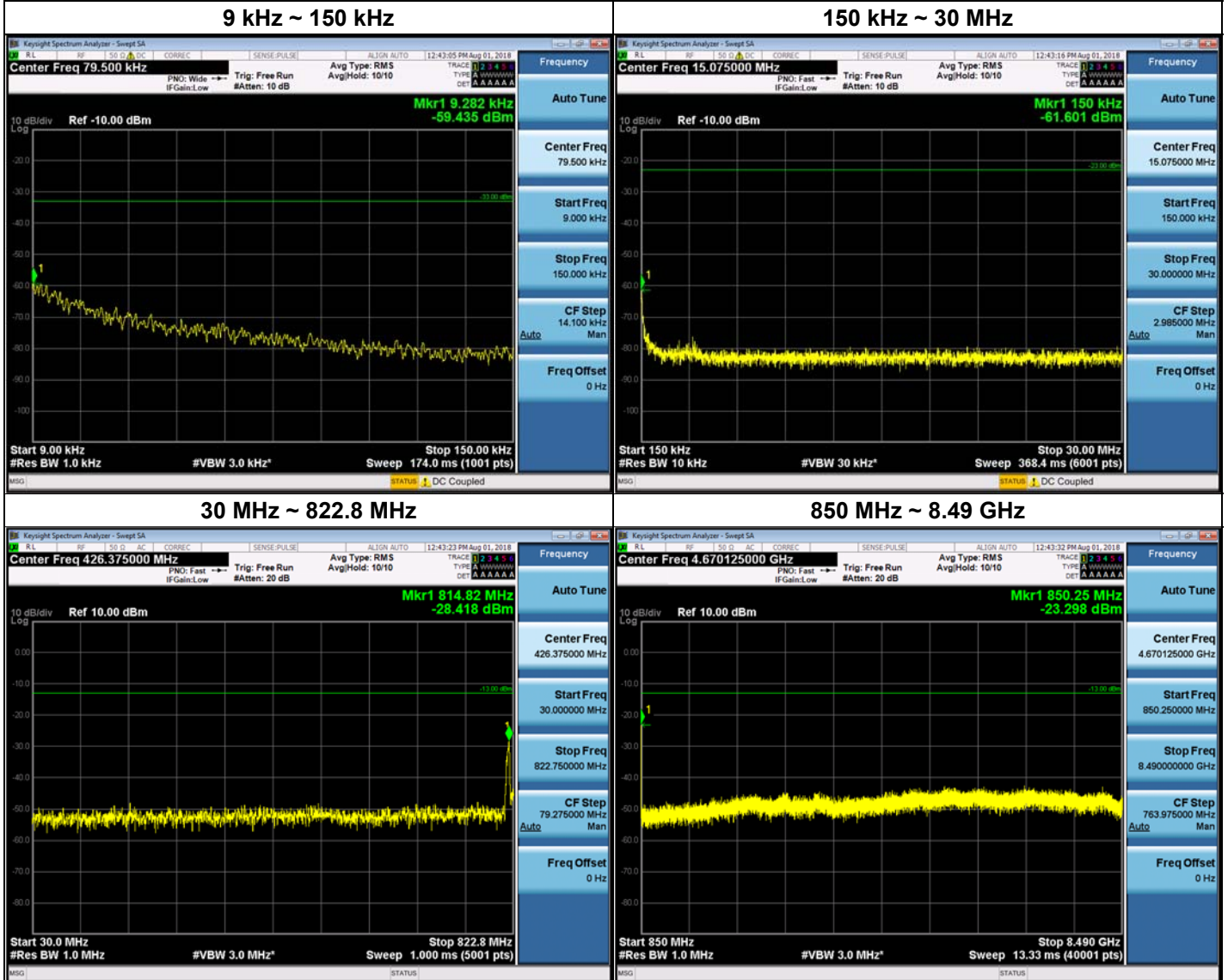
30 MHz ~ 822.8 MHz



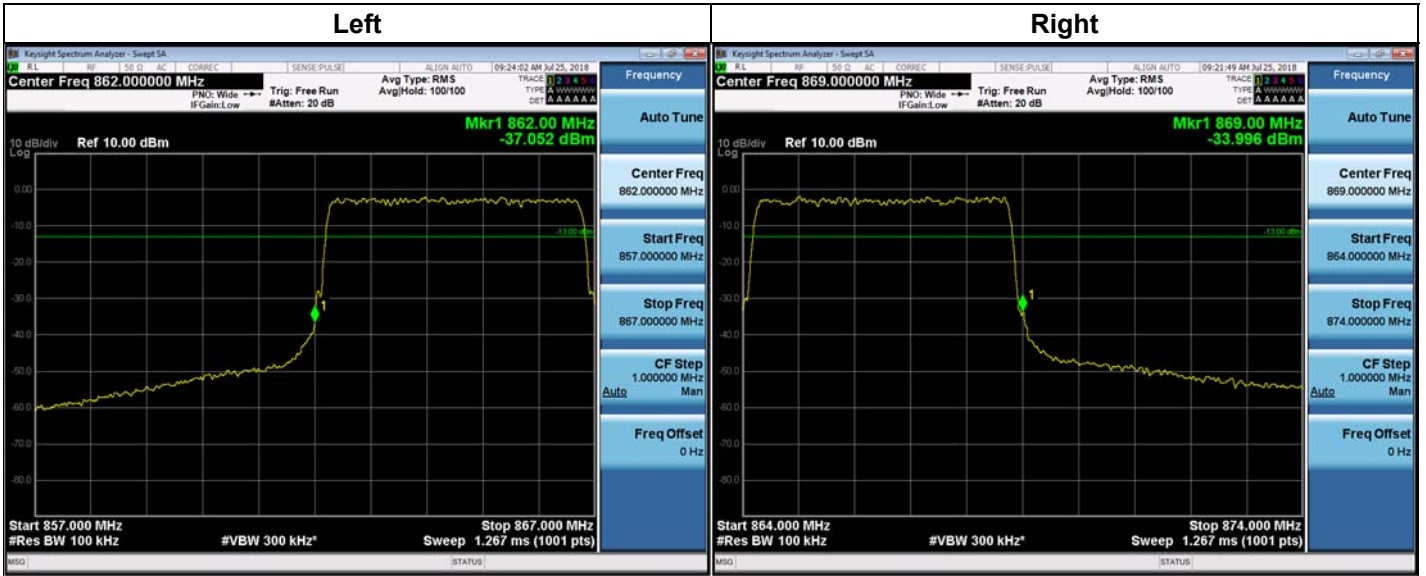
850 MHz ~ 8.49 GHz



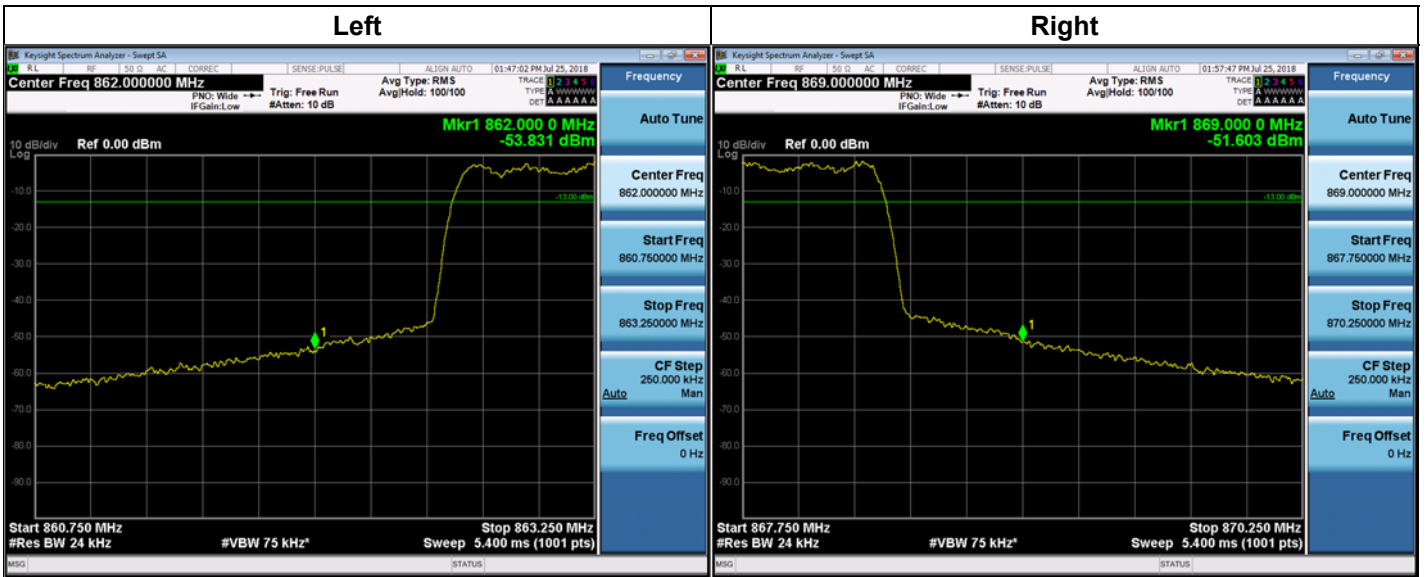
High Channel



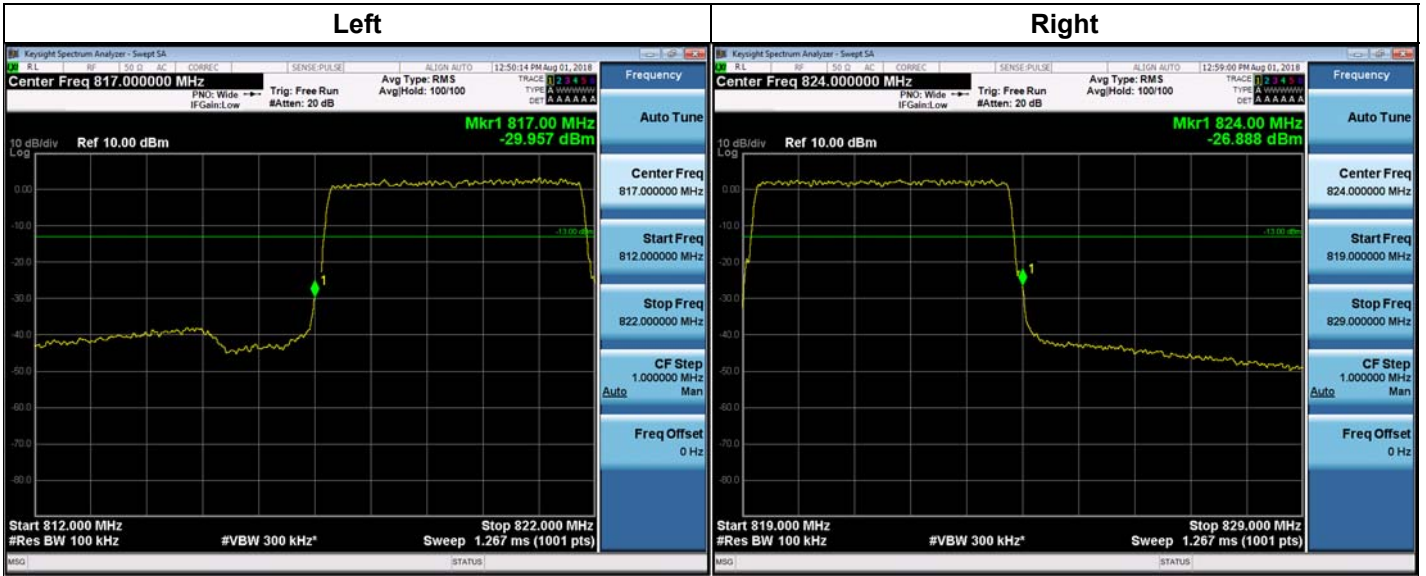
Plot of Band Edge for LTE 5 MHz – FCC Part 90 Band_Downlink



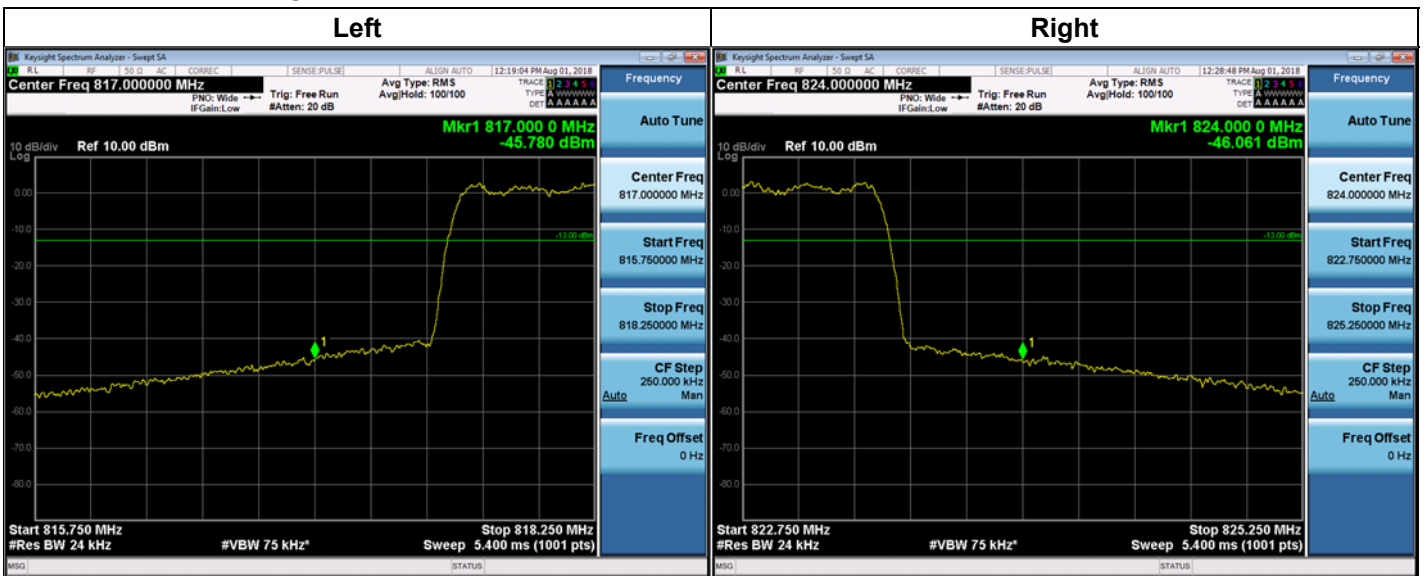
Plot of Band Edge for CDMA – FCC Part 90 Band_Downlink



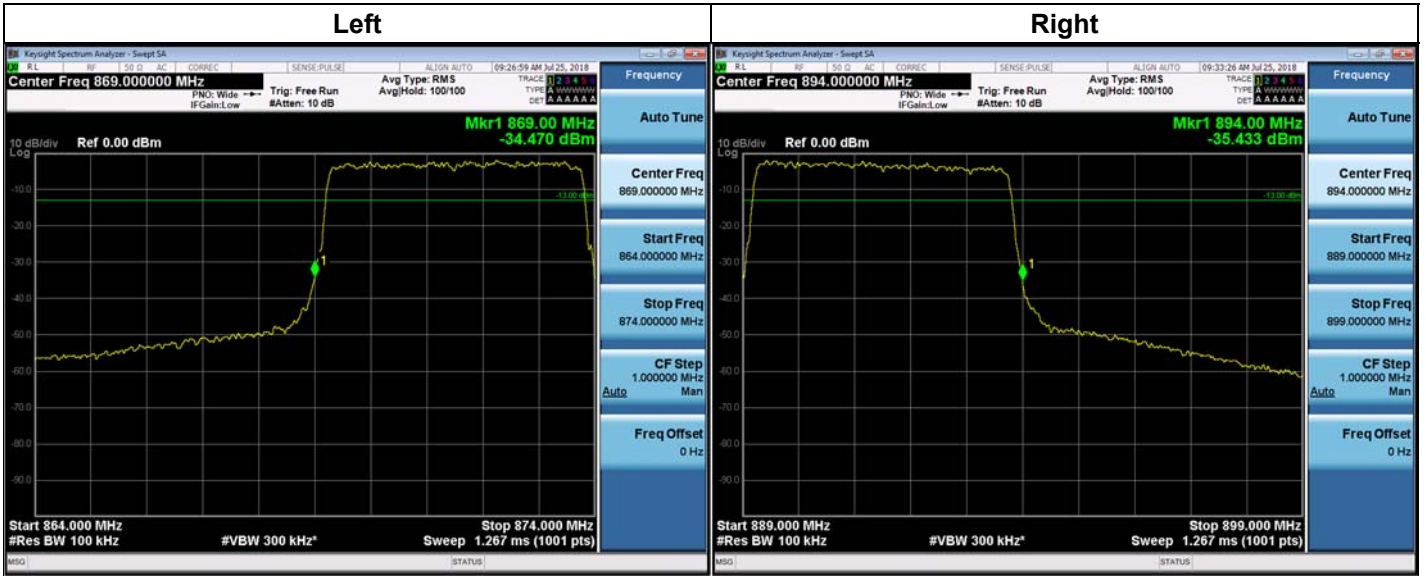
Plot of Band Edge for LTE 5 MHz – FCC Part 90 Band_Uplink



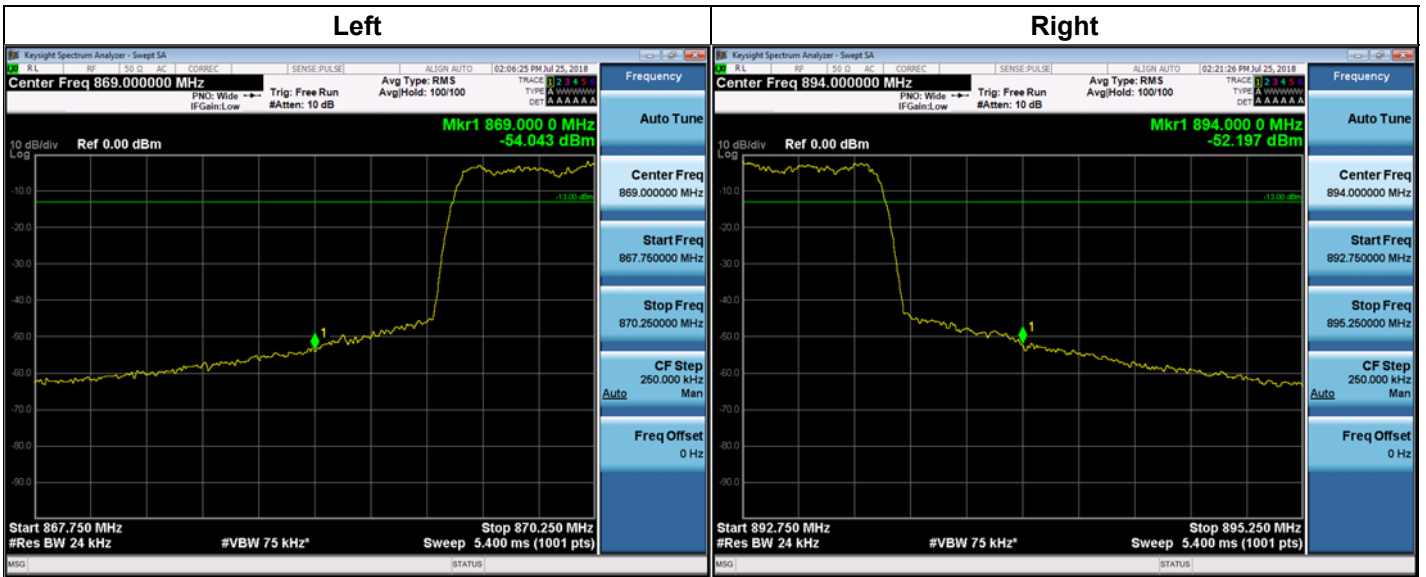
Plot of Band Edge for CDMA – FCC Part 90 Band_Uplink



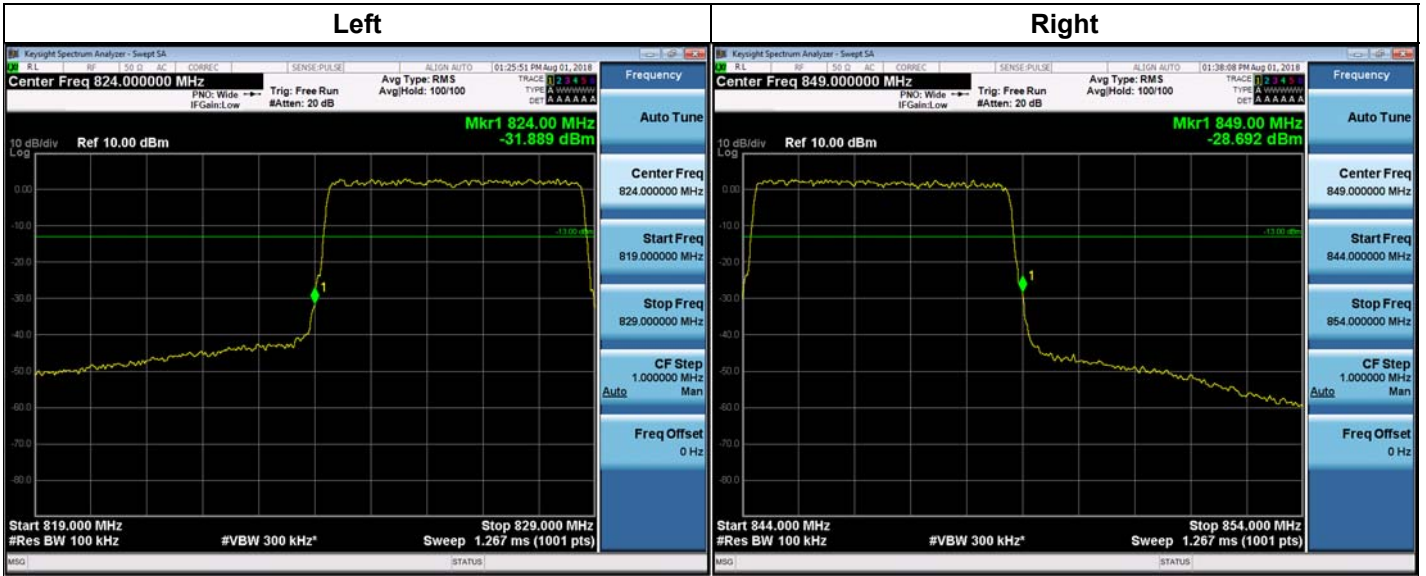
Plot of Band Edge for LTE 5 MHz – FCC Part 22 Band_Downlink



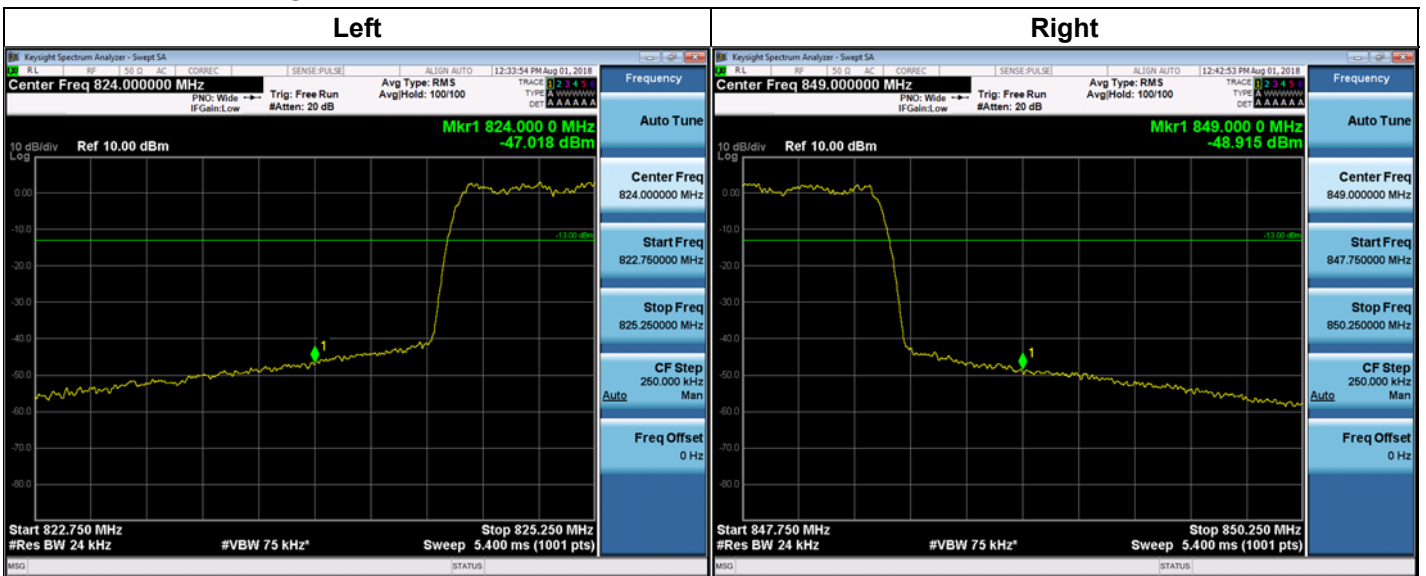
Plot of Band Edge for CDMA – FCC Part 22 Band_Downlink



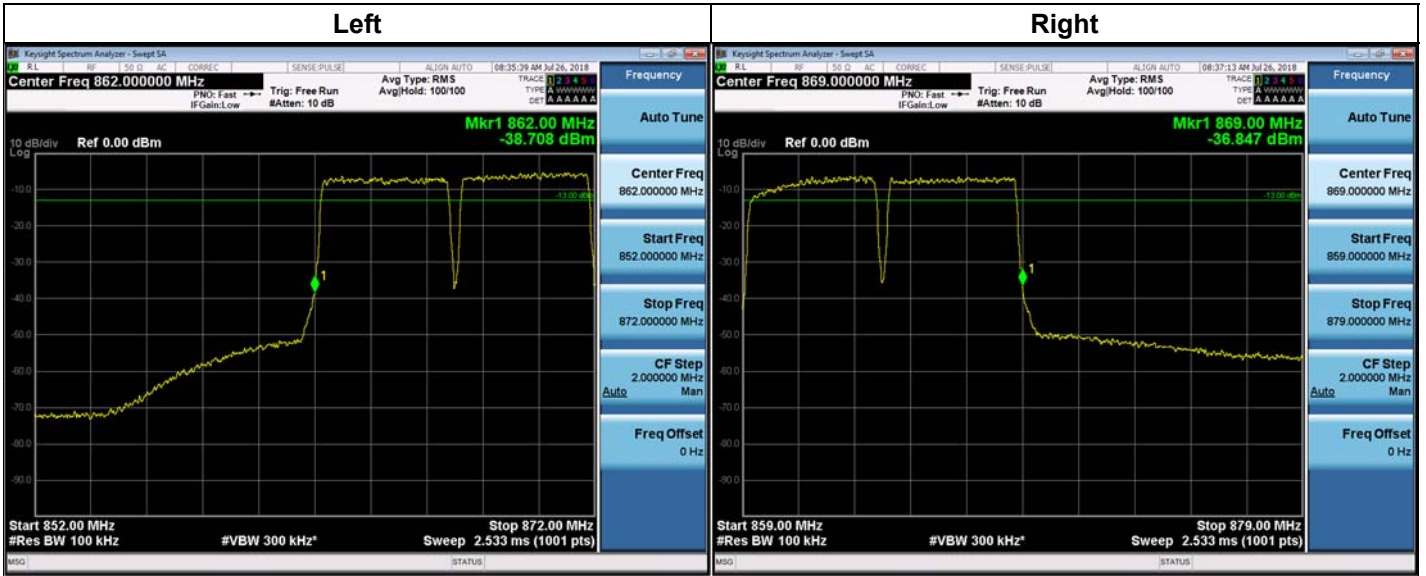
Plot of Band Edge for LTE 5 MHz – FCC Part 22 Band_Uplink



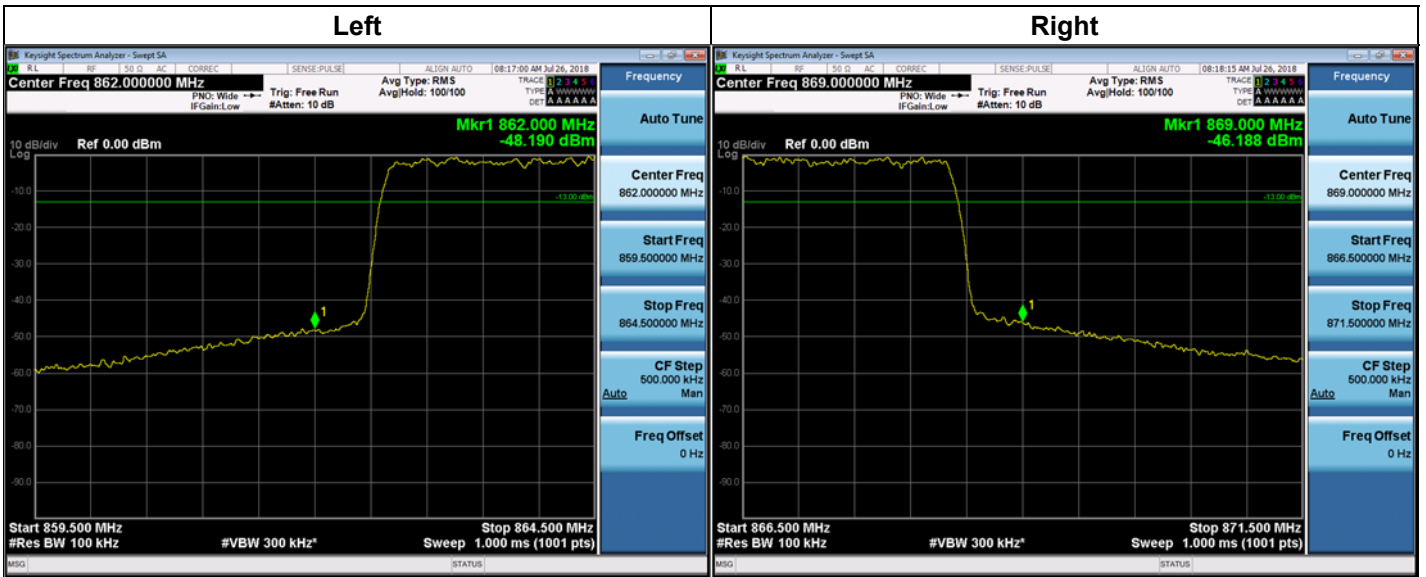
Plot of Band Edge for CDMA – FCC Part 22 Band_Uplink



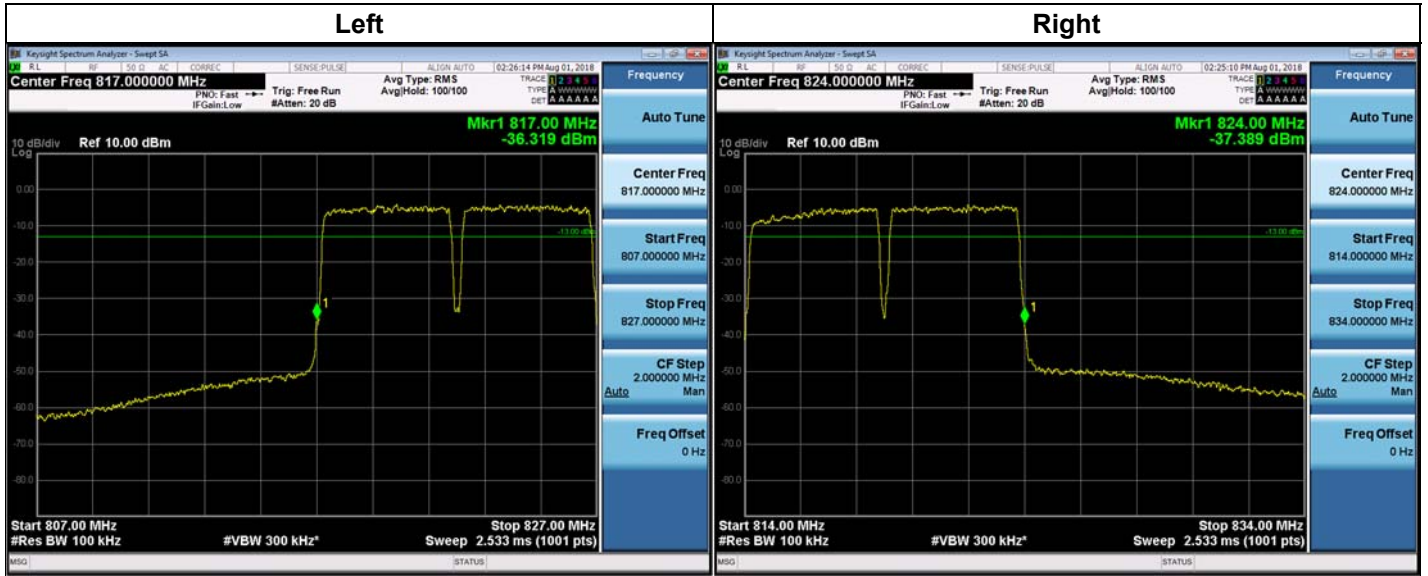
Plot of Intermodulation for LTE 5 MHz – FCC Part 90 Band_Downlink



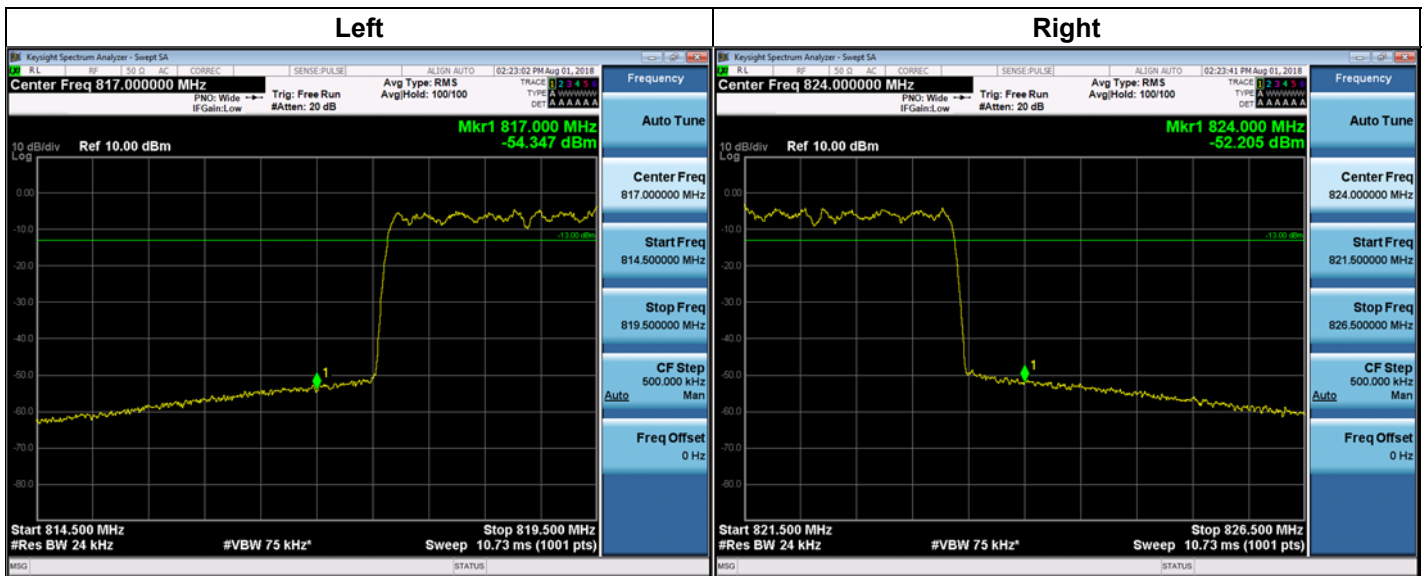
Plot of Intermodulation for CDMA – FCC Part 90 Band_Downlink



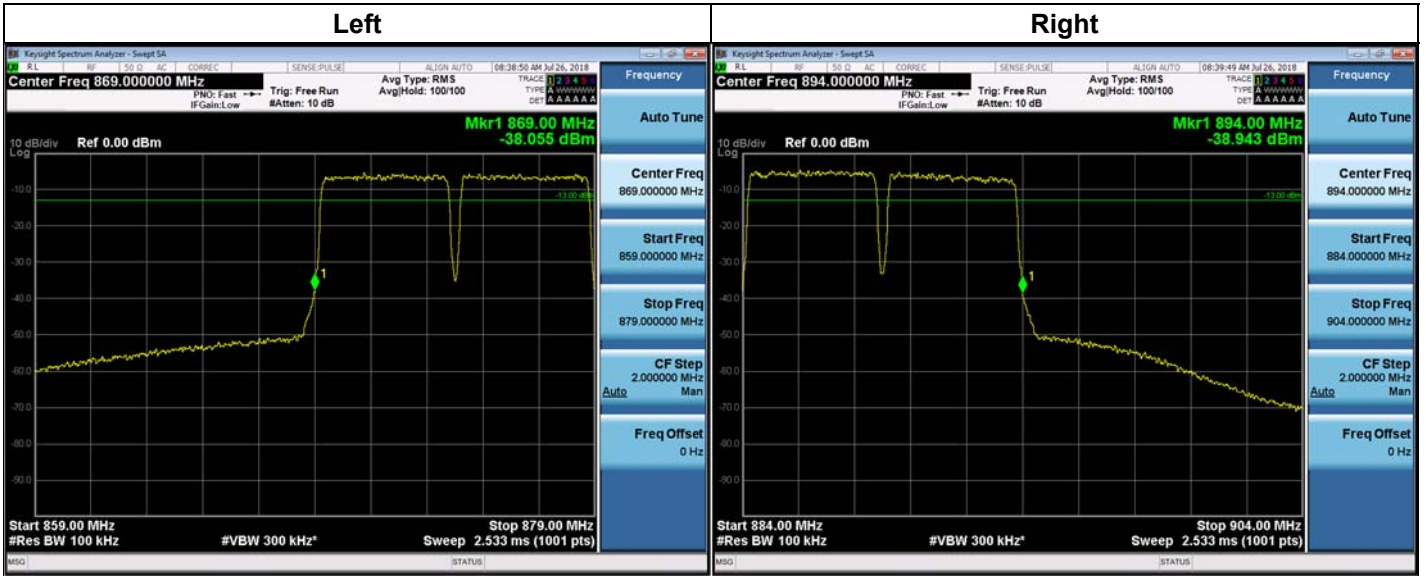
Plot of Intermodulation for LTE 5 MHz – FCC Part 90 Band_Uplink



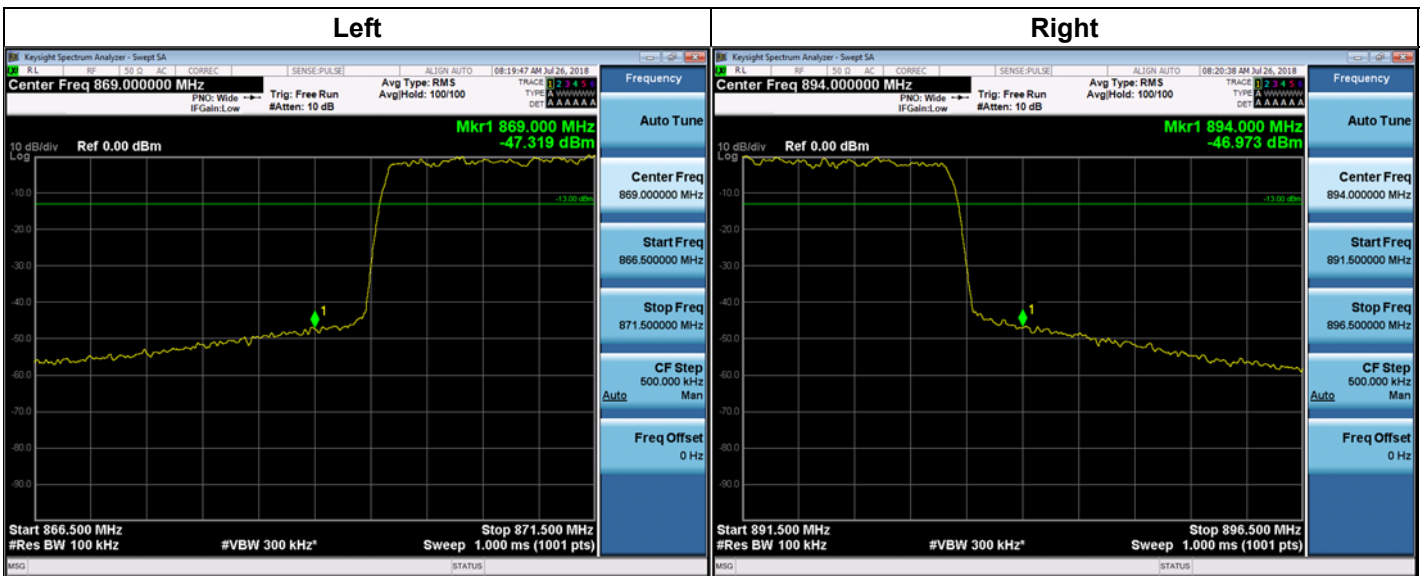
Plot of Intermodulation for CDMA – FCC Part 90 Band_Uplink



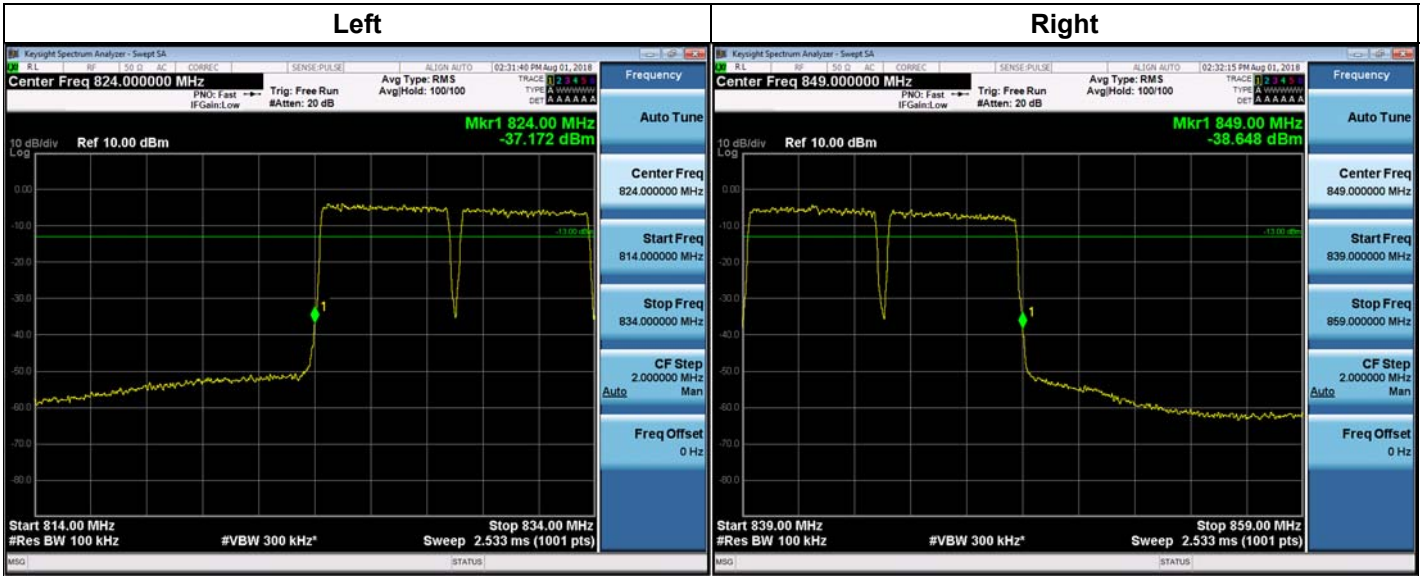
Plot of Intermodulation for LTE 5 MHz – FCC Part 22 Band_Downlink



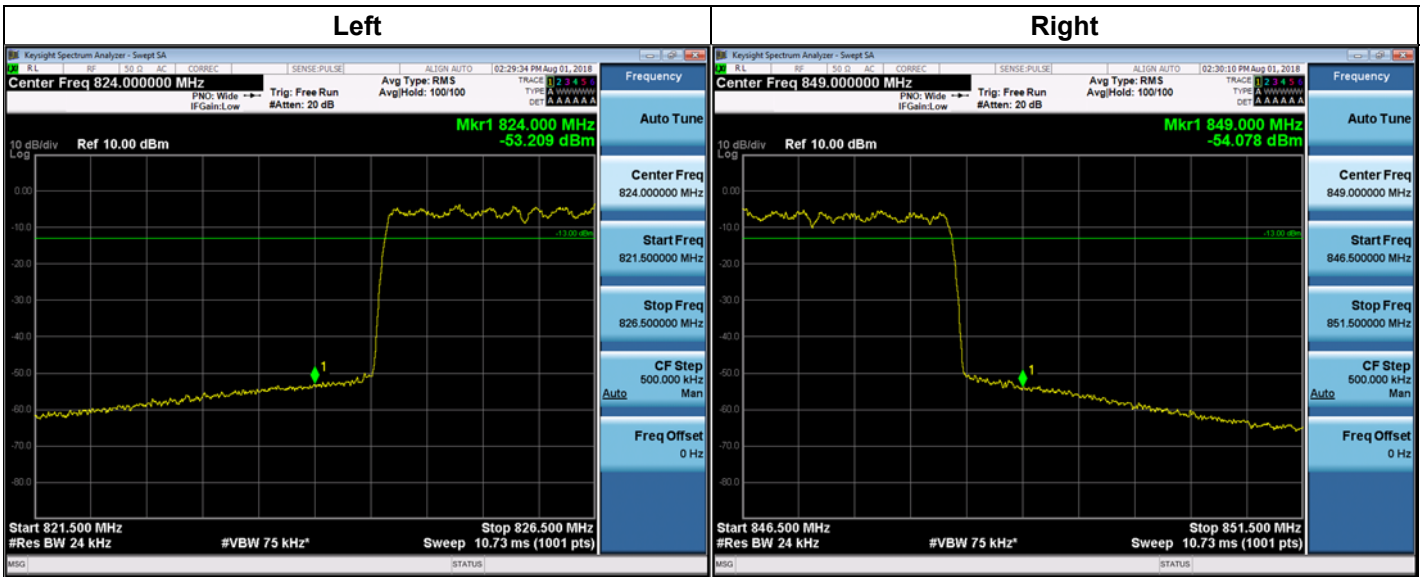
Plot of Intermodulation for CDMA – FCC Part 22 Band_Downlink



Plot of Intermodulation for LTE 5 MHz – FCC Part 22 Band_Uplink



Plot of Intermodulation for CDMA – FCC Part 22 Band_Uplink



10. RADIATED EMISSIONS

FCC Rules

Test Requirements:

§ 2.1053 Measurements required: Field strength of spurious radiation.

(a) Measurements shall be made to detect spurious emissions that may be radiated directly from the cabinet, control circuits, power leads, or intermediate circuit elements under normal conditions of installation and operation. Curves or equivalent data shall be supplied showing the magnitude of each harmonic and other spurious emission. For this test, single sideband, independent sideband, and controlled carrier transmitters shall be modulated under the conditions specified in paragraph (c) of §2.1049, as appropriate. For equipment operating on frequencies below 890 MHz, an open field test is normally required, with the measuring instrument antenna located in the far-field at all test frequencies. In the event it is either impractical or impossible to make open field measurements (e.g. a broadcast transmitter installed in a building) measurements will be accepted of the equipment as installed. Such measurements must be accompanied by a description of the site where the measurements were made showing the location of any possible source of reflections which might distort the field strength measurements. Information submitted shall include the relative radiated power of each spurious emission with reference to the rated power output of the transmitter, assuming all emissions are radiated from halfwave dipole antennas.

(b) The measurements specified in paragraph (a) of this section shall be made for the following equipment:

- (1) Those in which the spurious emissions are required to be 60 dB or more below the mean power of the transmitter.
- (2) All equipment operating on frequencies higher than 25 MHz.
- (3) All equipment where the antenna is an integral part of, and attached directly to the transmitter.
- (4) Other types of equipment as required, when deemed necessary by the Commission.

Test Procedures:

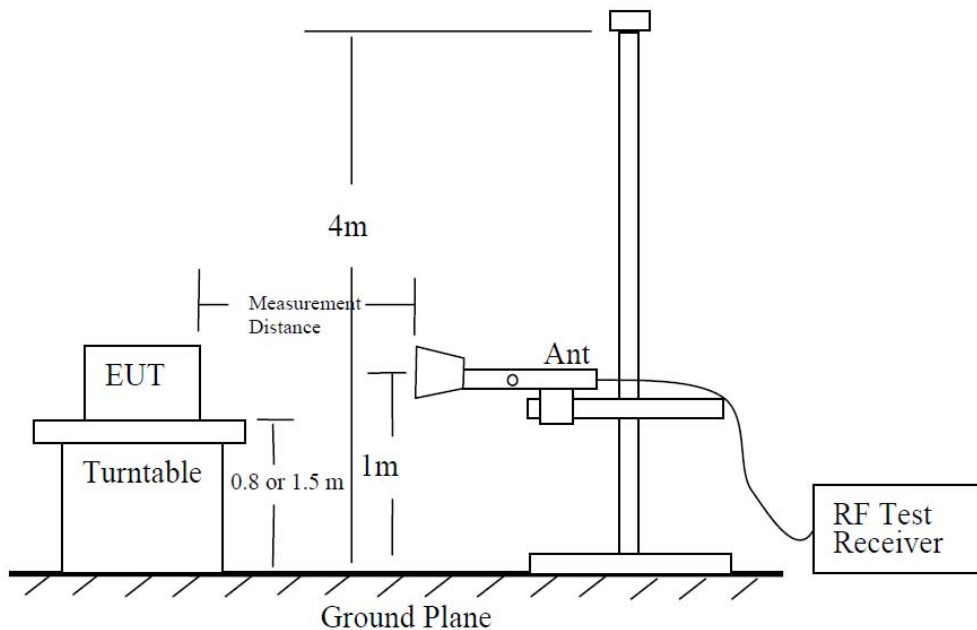
The measurement is performed in accordance with Section 5.5.3.2 of ANSI C63.26.

a) Place the EUT in the center of the turntable. The EUT shall be configured to transmit into the standard non-radiating load (for measuring radiated spurious emissions), connected with cables of minimal length unless specified otherwise. If the EUT uses an adjustable antenna, the antenna shall be positioned to the length that produces the worst case emission at the fundamental operating frequency.

b) Each emission under consideration shall be evaluated:

- 1) Raise and lower the measurement antenna in accordance 5.5.2, as necessary to enable

- detection of the maximum emission amplitude relative to measurement antenna height.
- 2) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - 3) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - 4) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - 5) Record the measured emission amplitude level and frequency using the appropriate RBW.
- c) Repeat step b) for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
- d) ~ j) Omitted
- k) Provide the complete measurement results as a part of the test report.

Test Setup:**Note:**

- 1) According to SVSWR requirement in ANSI 63.4 (2014), we performed the radiated test at 3.75 m distance from center of turn table. So, we applied the distance factor (reference distance: 3 m).
- 2) Distance extrapolation factor = $20 \log(\text{test distance} / \text{specific distance})$ (dB)
- 3) Position of EUT for testing below 1 GHz test is 80 cm, and above 1 GHz is 1.5 m

Test Result:

Ch.	Frequency (MHz)	Measured Level (dBuV/m)	Measured Power (dBm)	Ant. Factor (dB/m)	C.L (dB)	A.G. (dB)	D.F. (dB)	Pol.	Result (dBm)
No Critical Peaks Found									

* C.L.: Cable Loss / A.G.: Ant. Gain / D.F.: Distance Factor (3.75 m)

11. Annex A_EUT AND TEST SETUP PHOTO

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

No.	Description
1	HCT-RF-1809-FC017-P