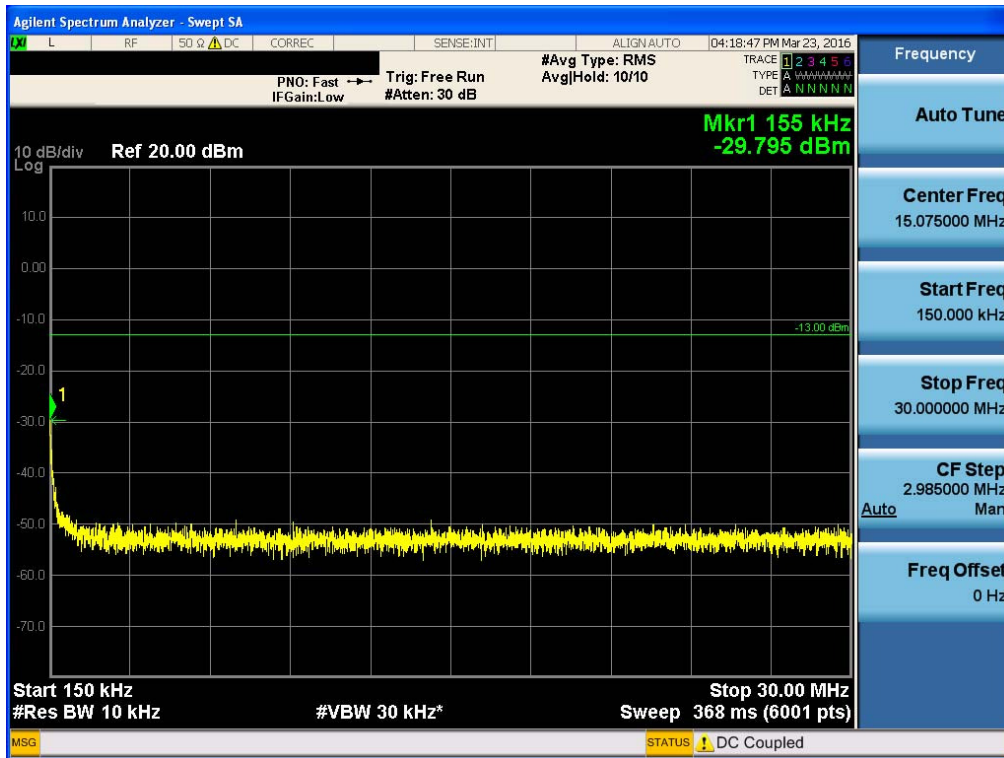
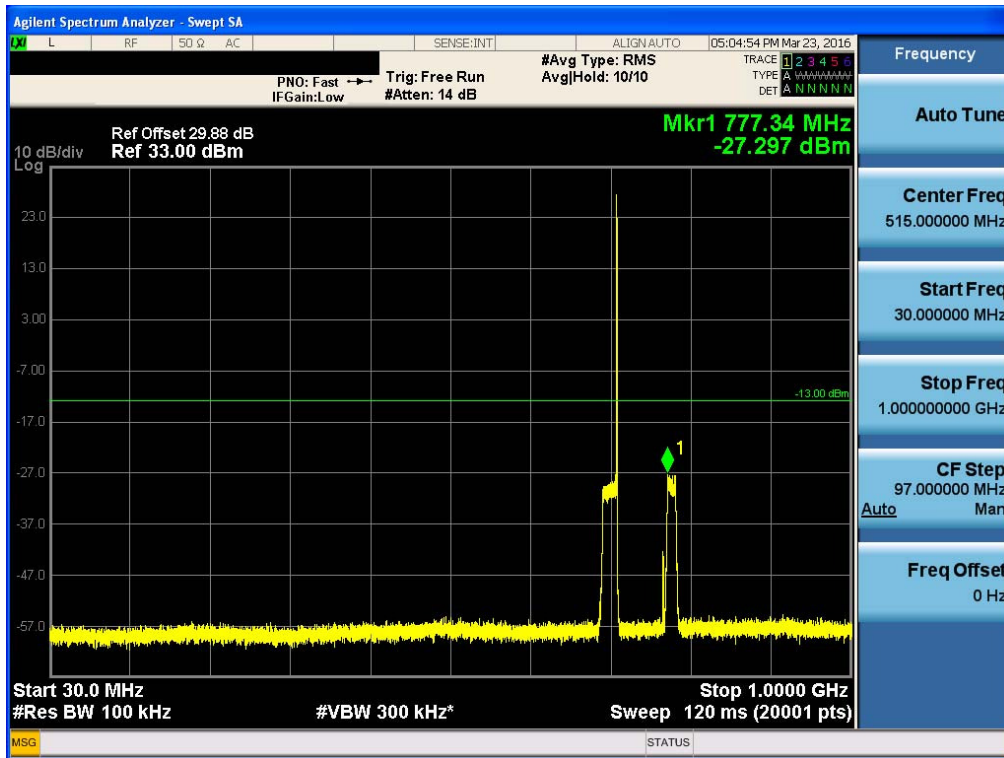


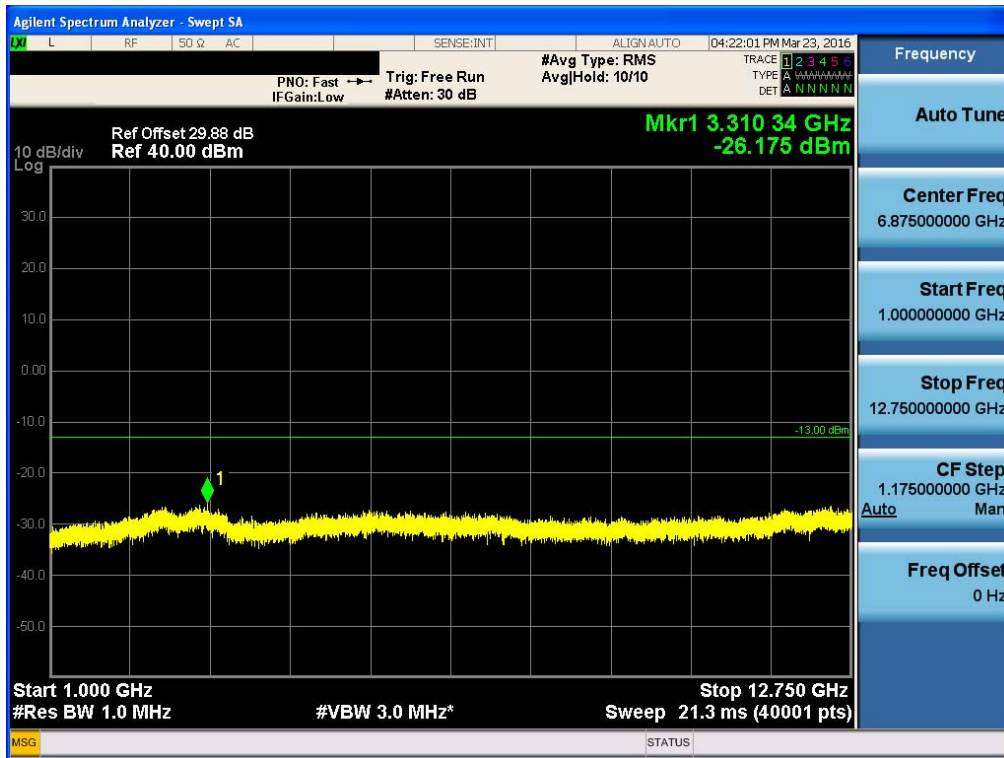
[Uplink LTE 5 MHz High]



[Uplink LTE 5 MHz High]

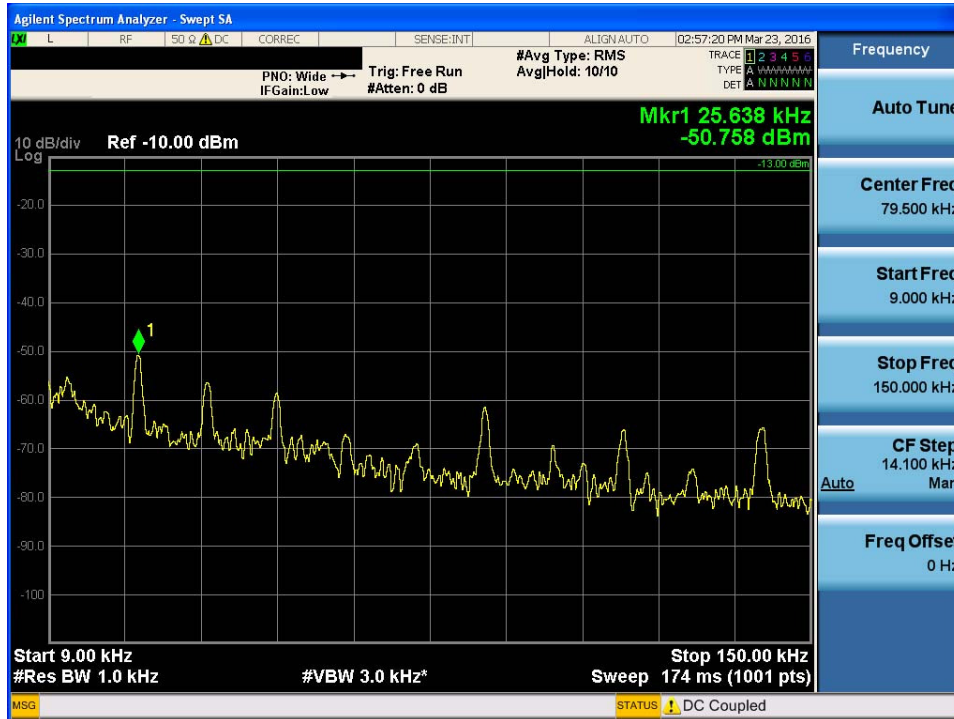


[Uplink LTE 5 MHz High]



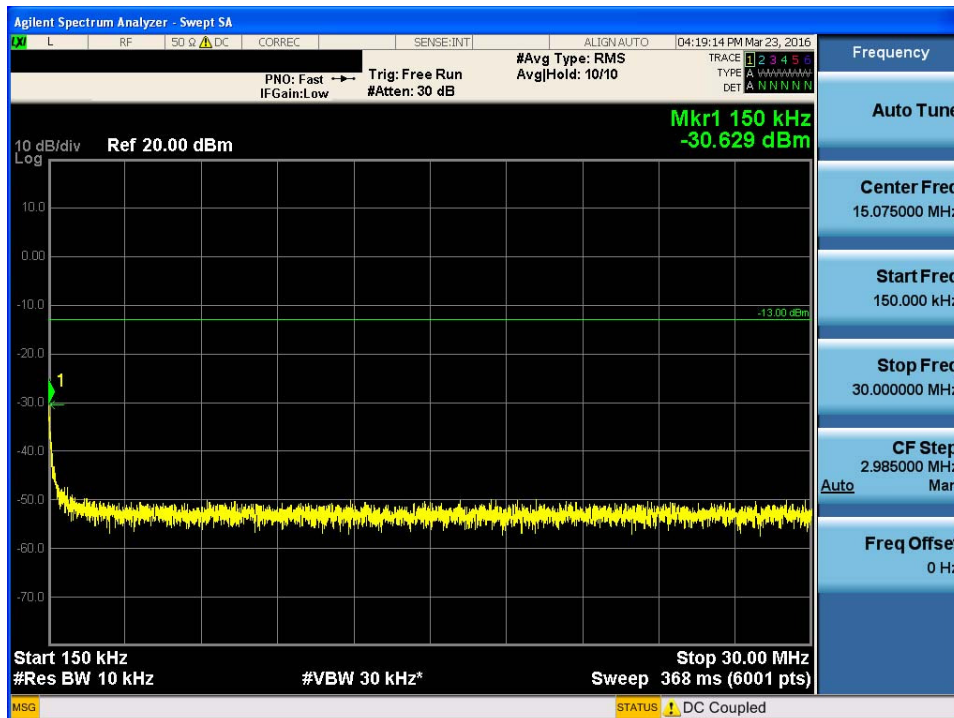
**Multi channel Enhancer Plots of Spurious Emission for IC [Uplink LTE 10 MHz]
Conducted Spurious Emissions (9 kHz – 150 kHz)**

[Uplink LTE 10 MHz Middle]



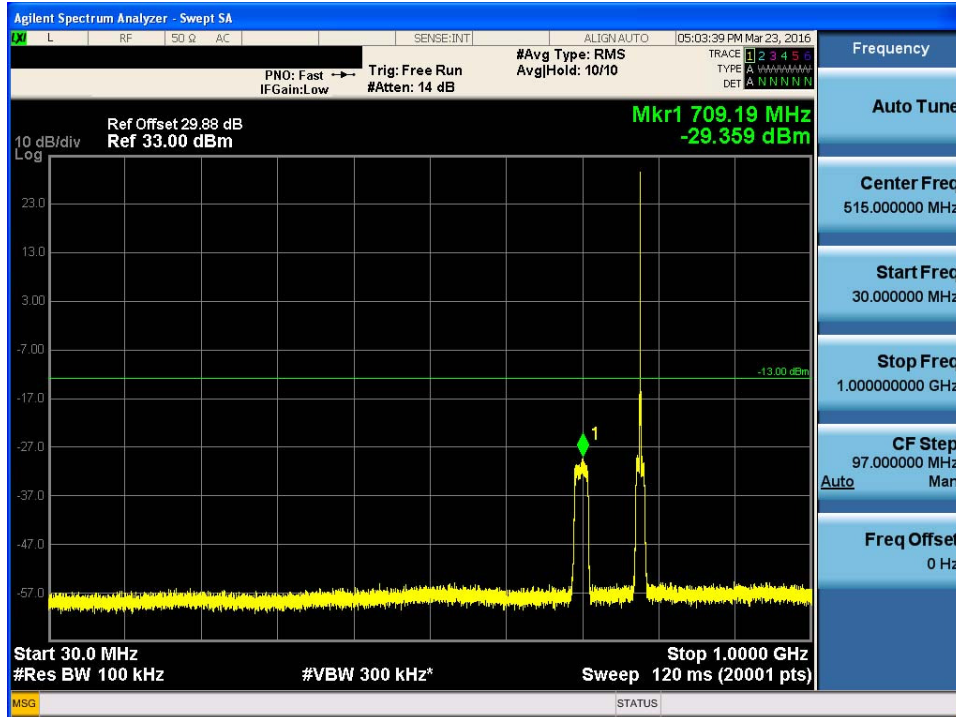
Conducted Spurious Emissions (150 kHz – 30 MHz)

[Uplink LTE 10 MHz Middle]



Conducted Spurious Emissions (30 MHz – 1 GHz)

[Uplink LTE 10 MHz Middle]

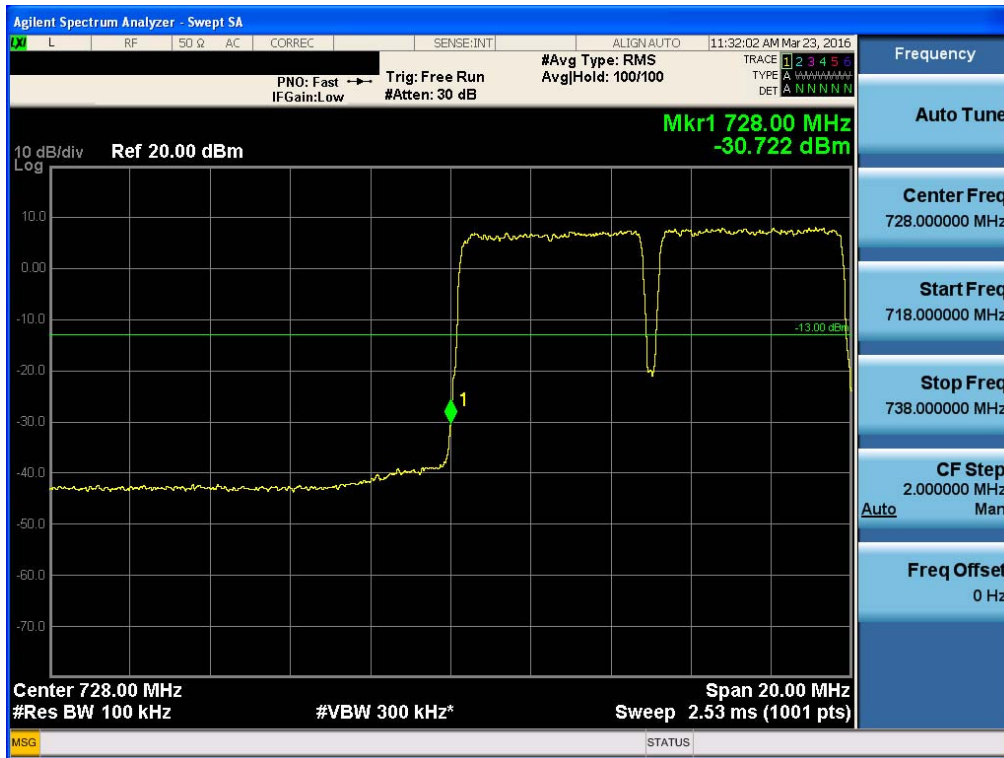


Conducted Spurious Emissions (1 GHz –12.75 GHz)

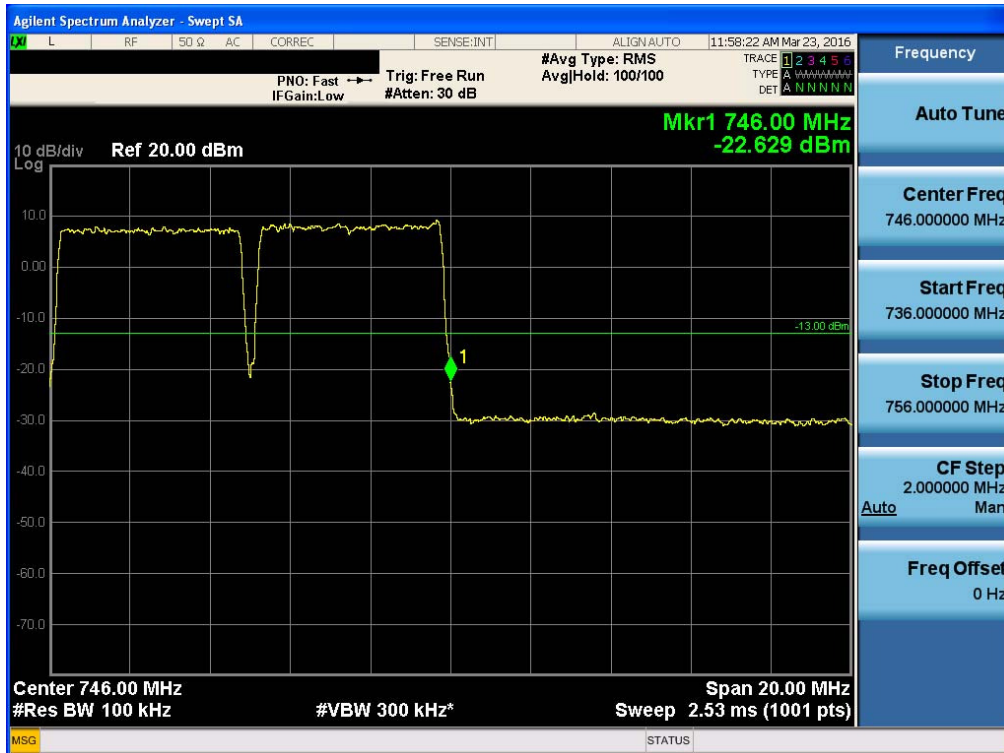
[Uplink LTE 10 MHz Middle]



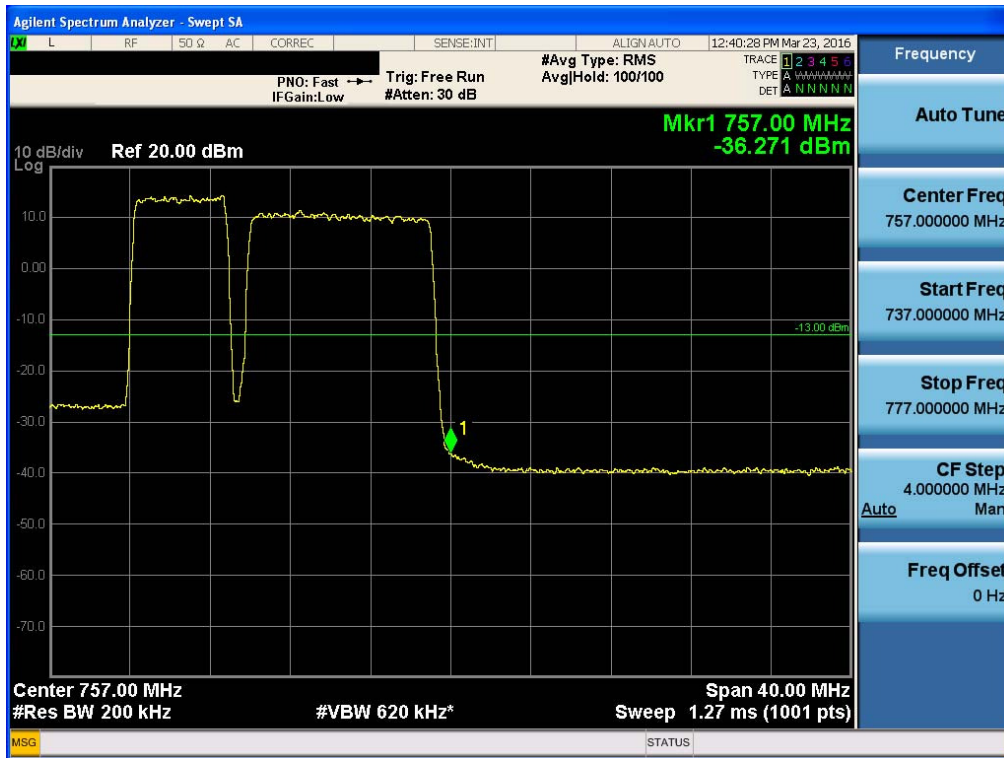
Intermodulation Spurious Emissions for FCC_LTE 5 MHz Downlink
[Downlink Low]



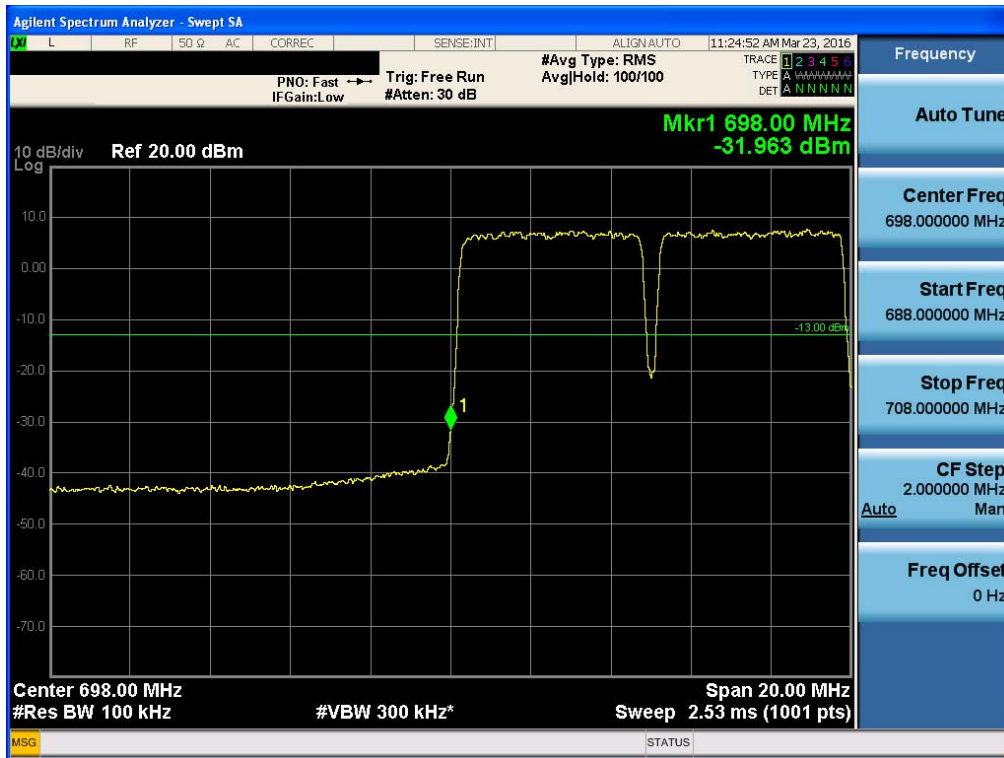
[Downlink High]



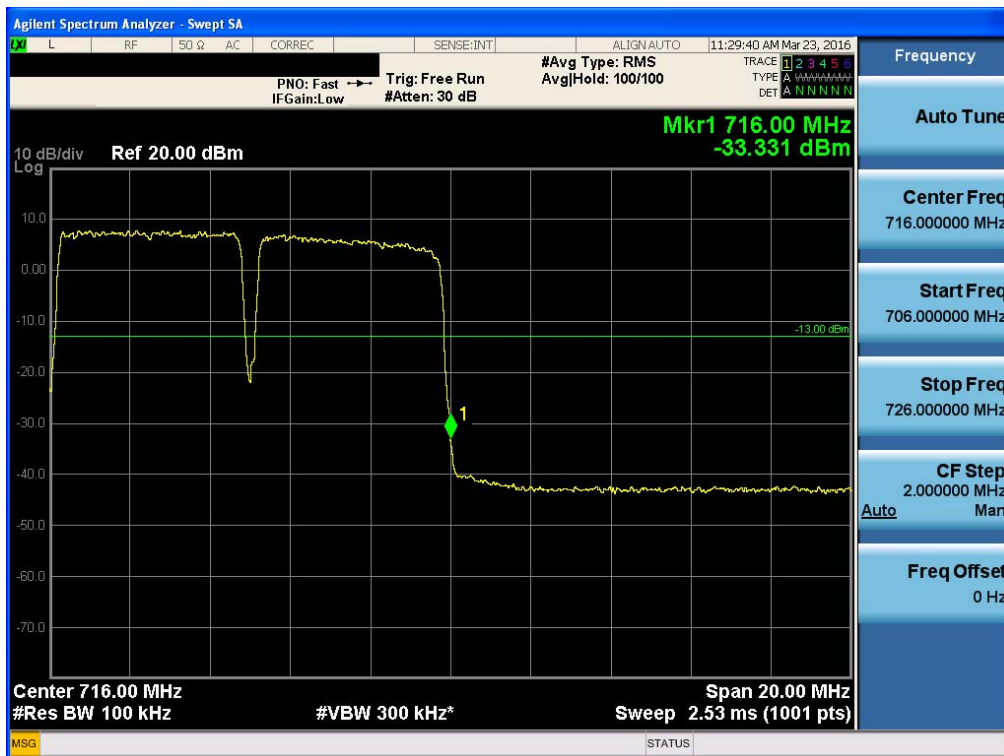
**Intermodulation Spurious Emissions for FCC_LTE 10 MHz Downlink
[Downlink High]**



Intermodulation Spurious Emissions for FCC_LTE 5 MHz Uplink
[Uplink Low]



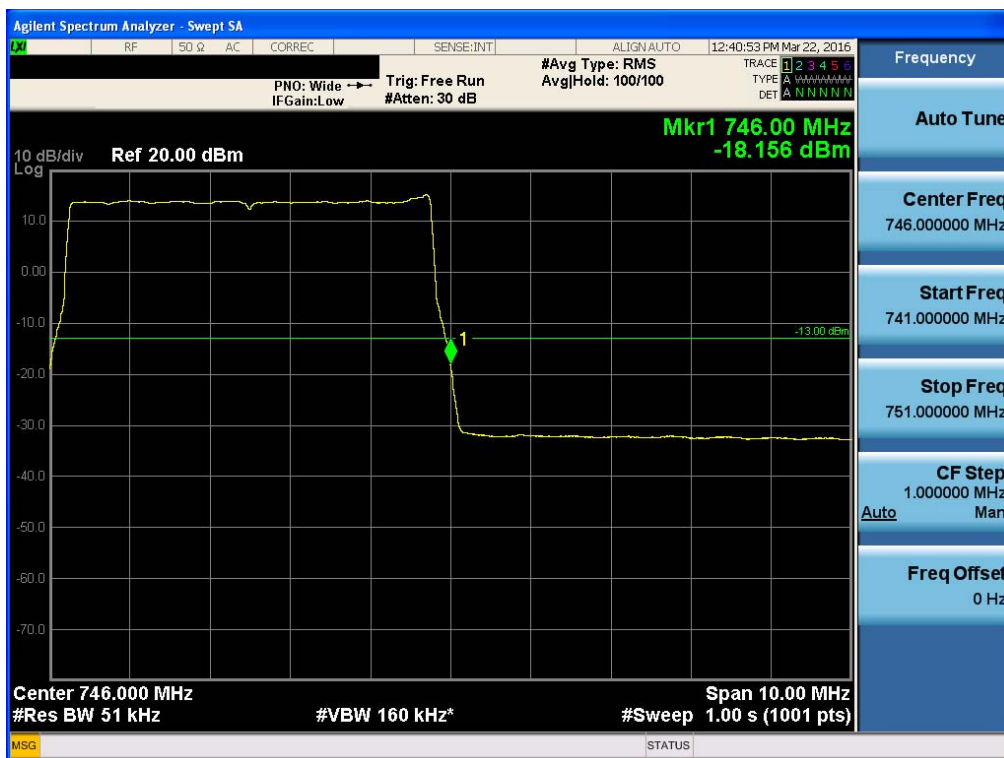
[Uplink High]



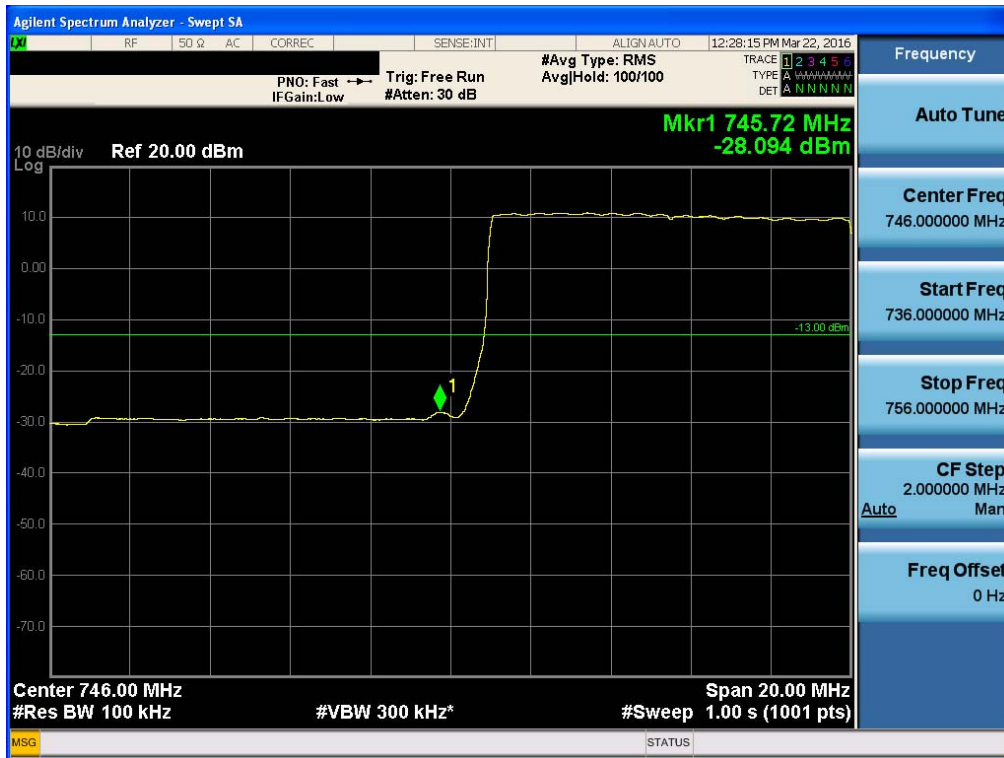
Single channel Enhancer Band Edge_Downlink LTE 5 MHz
[Downlink Low]



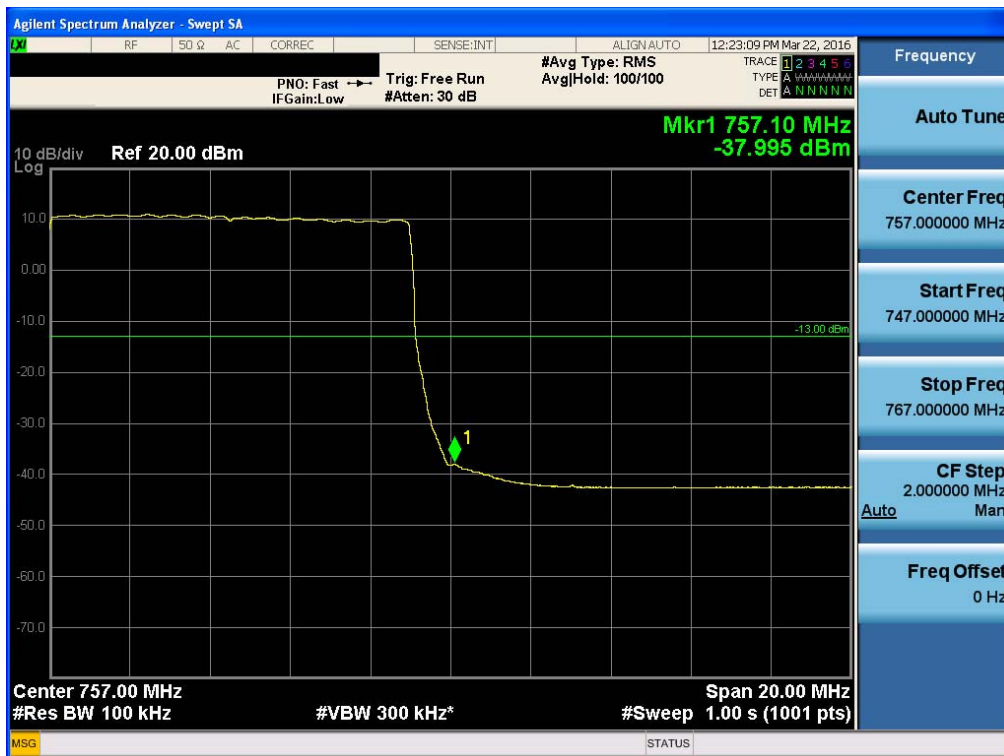
[Downlink High]



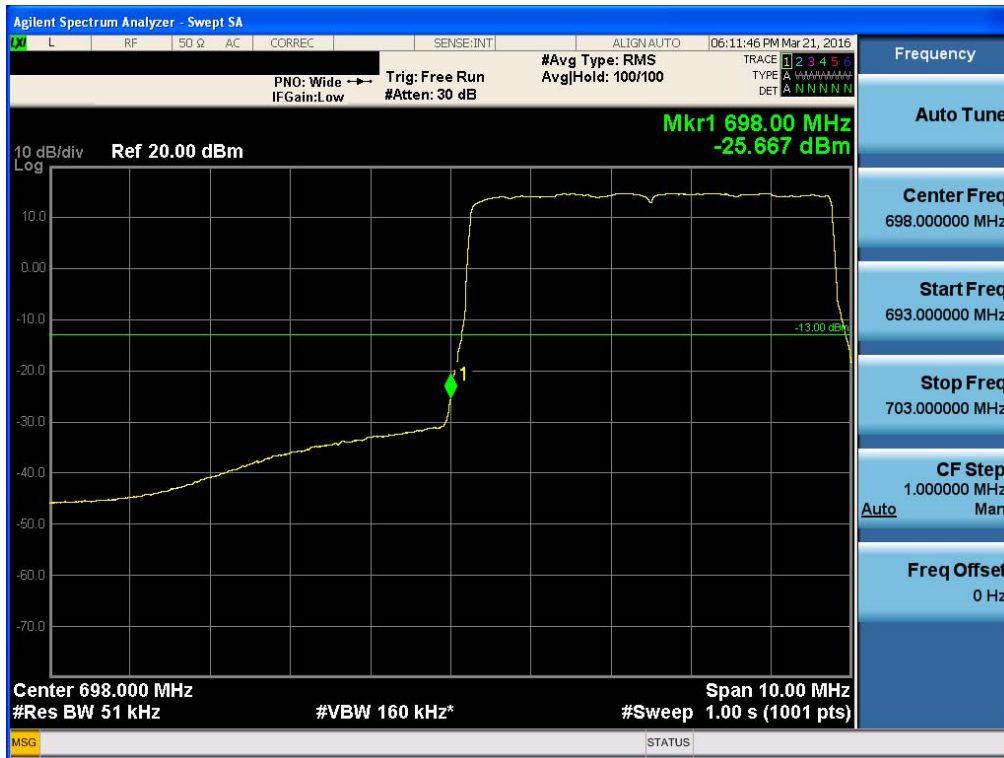
Single channel Enhancer Band Edge_Downlink LTE 10 MHz
[Downlink Low]



[Downlink High]



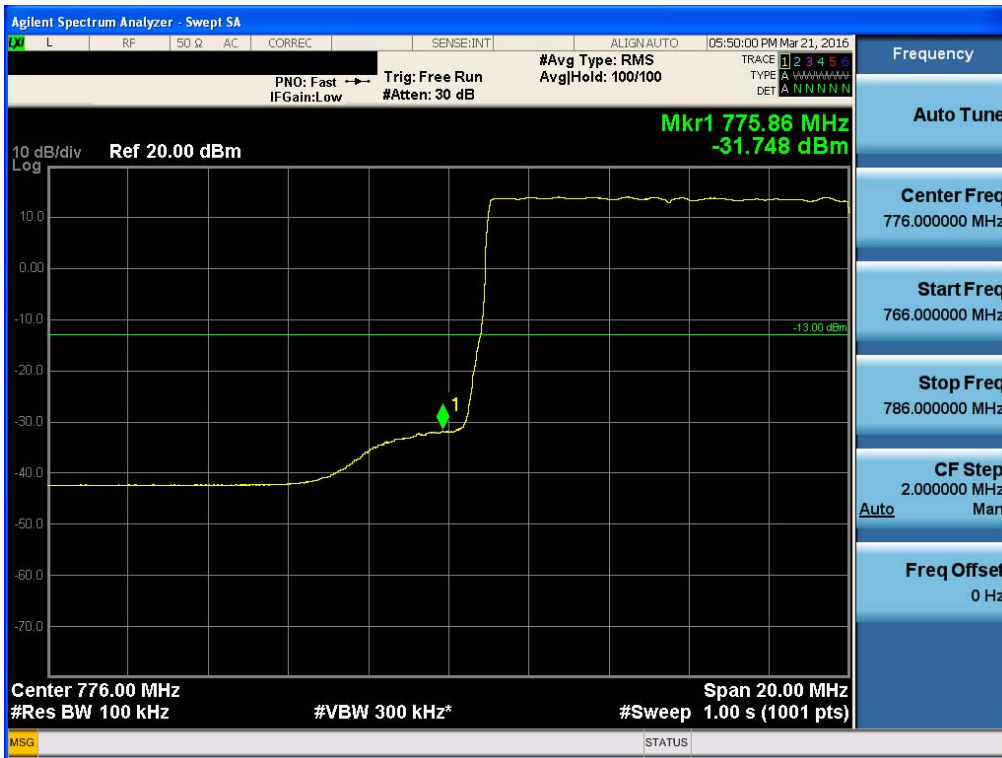
Single channel Enhancer Band Edge_Uplink LTE 5 MHz
[Uplink Low]



[Uplink High]



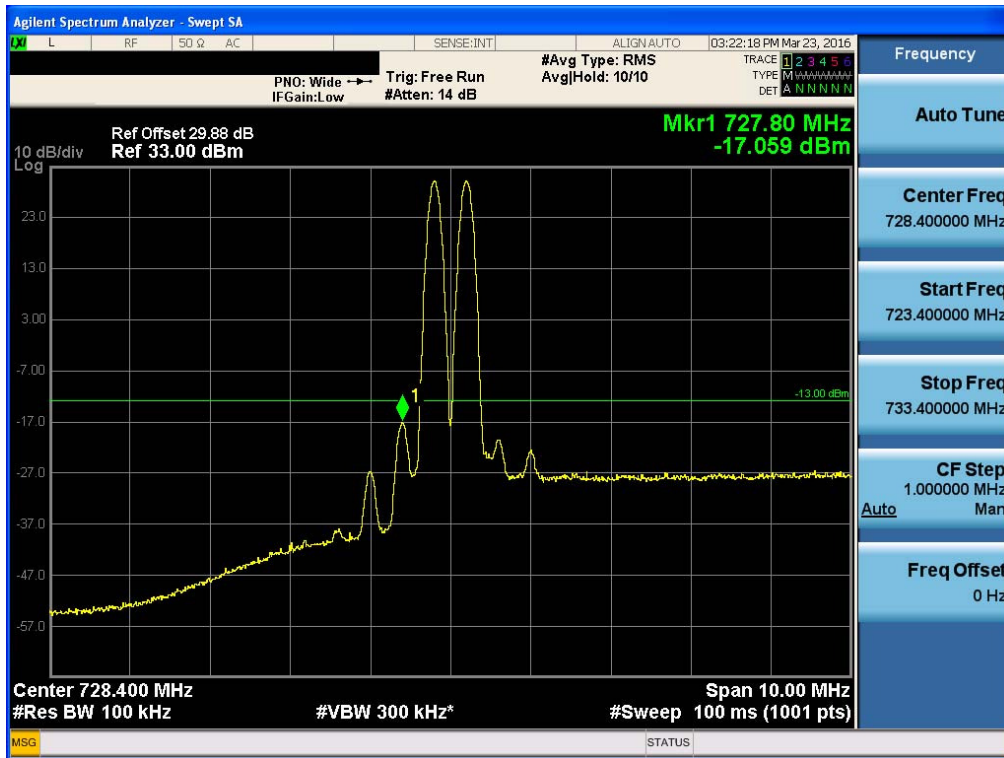
Single channel Enhancer Band Edge_Uplink LTE 10 MHz
[Uplink Low]



[Uplink High]



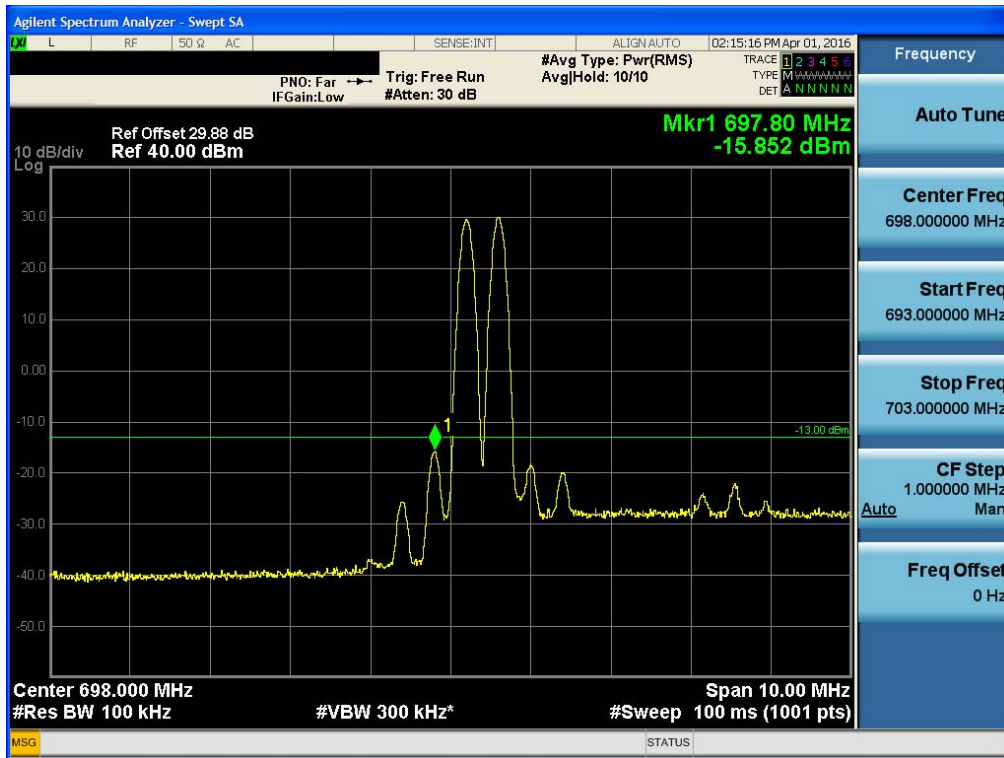
Multi channel Enhancer Band Edge for IC_Downlink LTE 5 MHz
[Downlink Low]



[Downlink High]



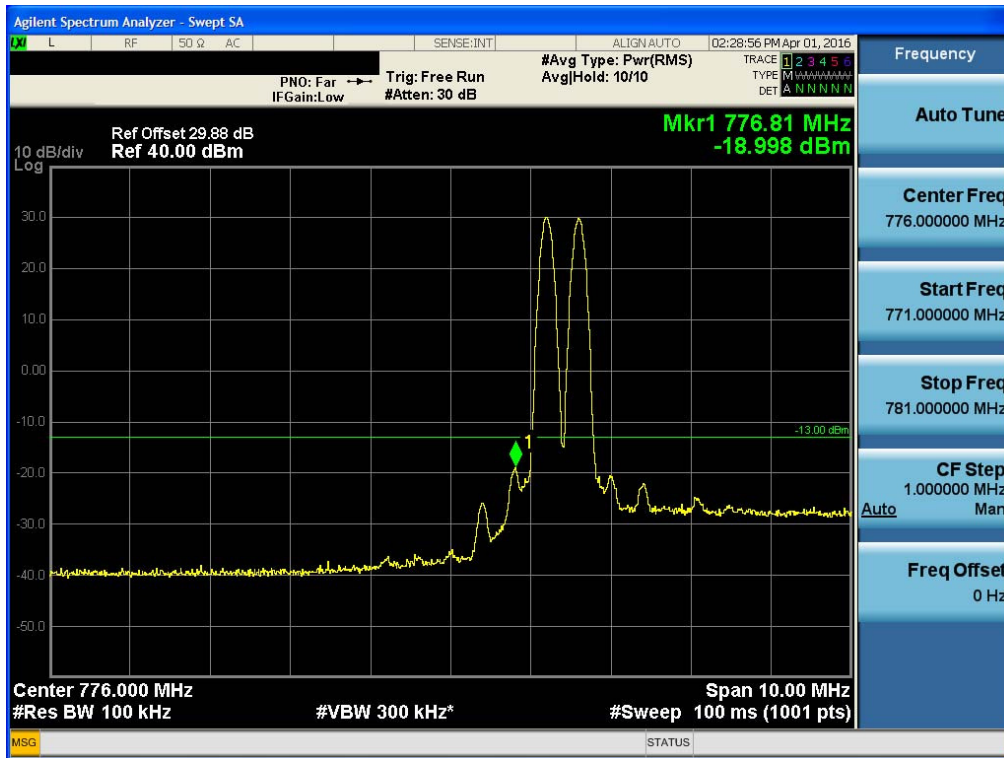
Multi channel Enhancer Band Edge for IC_Uplink LTE 5 MHz
[Uplink Low]



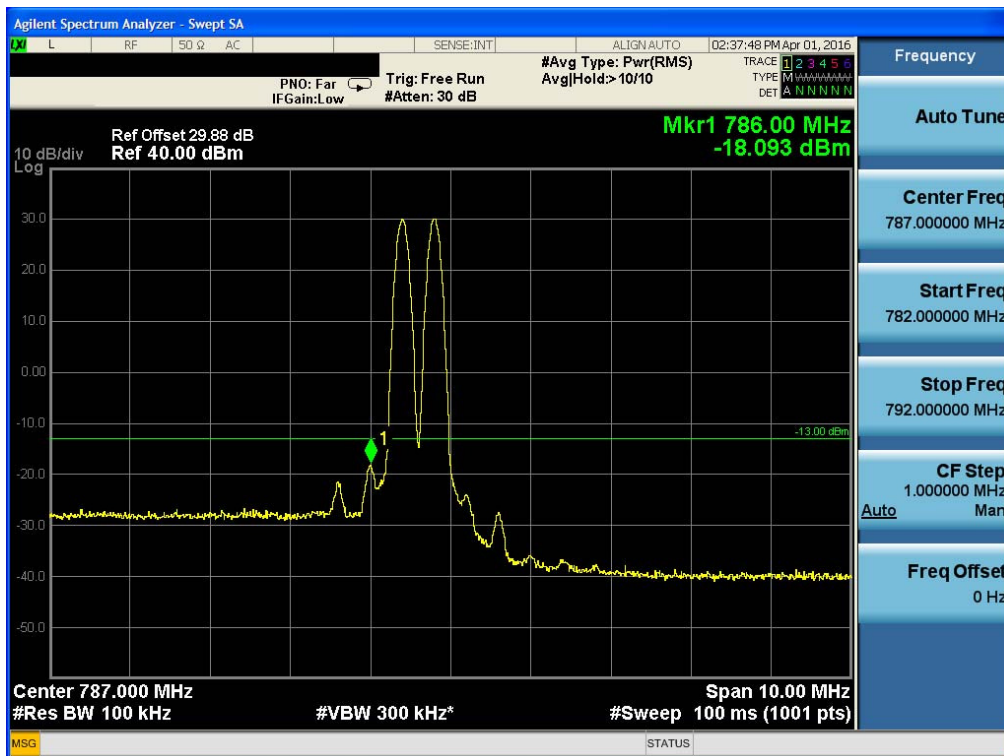
[Uplink High]



Multi channel Enhancer Band Edge for IC_Uplink LTE 10 MHz
[Uplink Low]



[Uplink High]



10. RADIATED SPURIOUS EMISSIONS

Test Requirement(s): § 2.1053 Measurements required: Field strength of spurious radiation.

§ 2.1053 (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 half-wave dipole antennas.

§ 2.1053 (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.

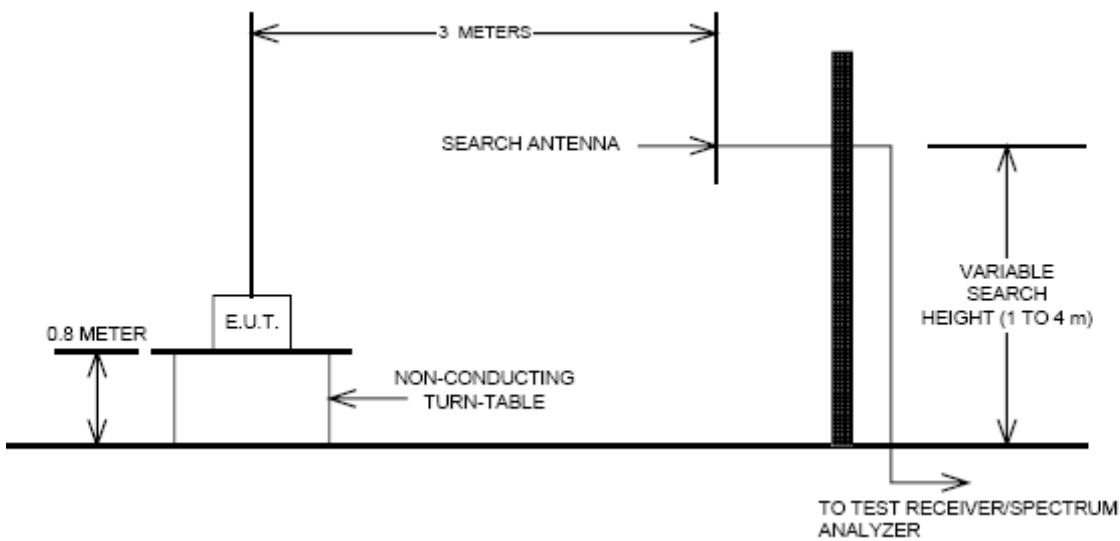
Test Procedures: As required by 47 CFR 2.1053, *field strength of radiated spurious measurements* were made in accordance with the procedures of ANSI/TIA-603-C-2004 "Land Mobile FM or PM Communications Equipment Measurement and Performance Standards".

Radiated emission measurements were performed inside a 3 meter semi-anechoic chamber.

The EUT was set at a distance of 3m from the receiving antenna. The EUT's

RF ports were terminated to 50ohm load. The EUT was set to transmit at the low, mid and high channels of the transmitter frequency range at its maximum power level. The EUT was rotated about 360 and the receiving antenna scanned from 1-3m in order to capture the maximum emission. A calibrated antenna source was positioned in place of the EUT and the previously recorded signal was duplicated. The maximum EIRP of the emission was calculated by adding the forward power to the calibrated source plus its appropriate gain value. These steps were carried out with the receiving antenna in both vertical and horizontal polarization. Harmonic emissions up to the 10th or 40GHz, whichever was the lesser, were investigated.

Radiated Spurious Emissions Test Setup



Test Result:

[Downlink]

Tx Freq.(MHz)	Freq.(MHz)	<u>Substitute</u> <u>Level</u> [dBm]	Ant. Gain (dBi)	C.L	Pol.	EIRP (dBm)	Margin (dB)
No critical peaks found							

[Uplink]

Tx Freq.(MHz)	Freq.(MHz)	<u>Substitute</u> <u>Level</u> [dBm]	Ant. Gain (dBi)	C.L	Pol.	EIRP (dBm)	Margin (dB)
No critical peaks found							

Notes:

1. Input signal is the CW signal.
2. We were performed all frequency to 10th harmonics from 9 kHz and in the lowest, middle, highest frequency for the Downlink/Uplink.
3. Measurements would be lesser If no specific emissions from the EUT are recored (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.