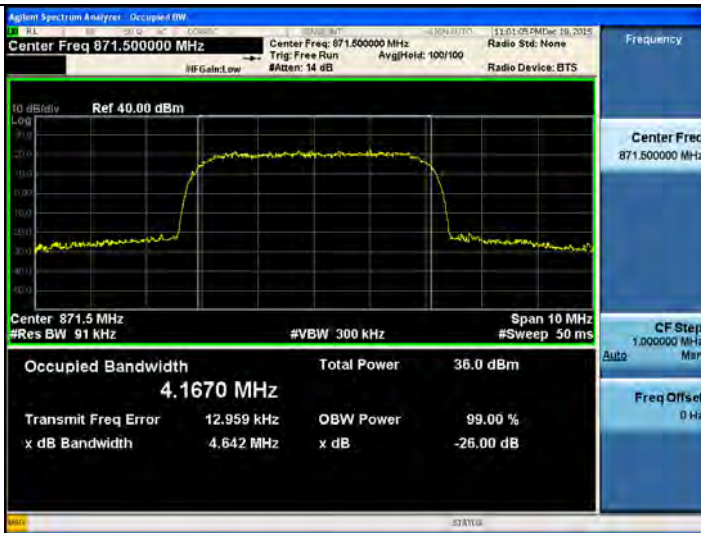


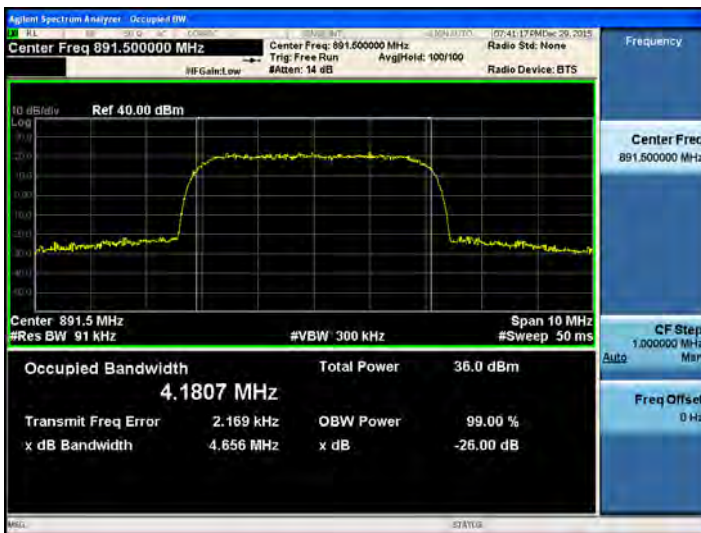
[850 Cellular Band +3dBm above the AGC threshold Downlink Output
UMTS Low]



[850 Cellular Band +3dBm above the AGC threshold Downlink Output
UMTS Mid]



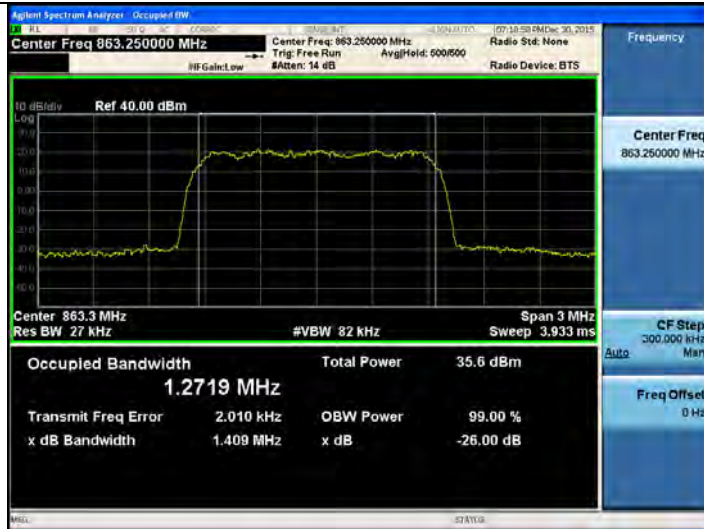
[850 Cellular Band +3dBm above the AGC threshold Downlink
Output UMTS High]



SMR 800,850 Cellular Band_CDMA DL_Output

[SMR 800,850 Cellular Band AGC threshold Downlink Output

CDMA Low]



[SMR 800,850 Cellular Band AGC threshold Downlink Output

CDMA Mid]

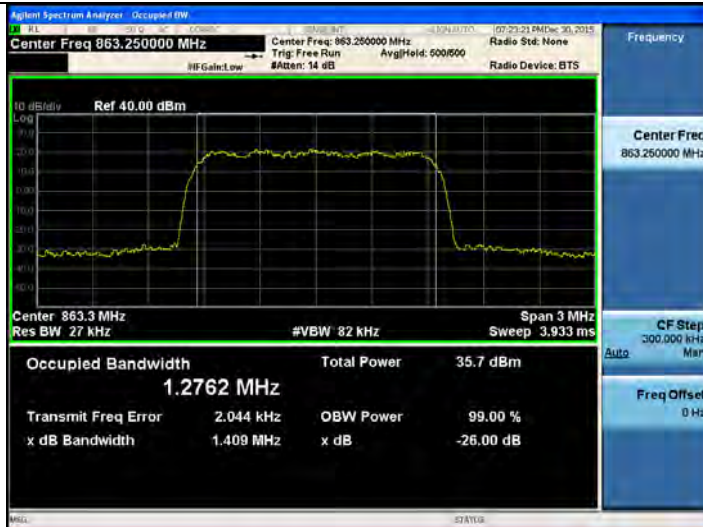


[SMR 800,850 Cellular Band AGC threshold Downlink Output

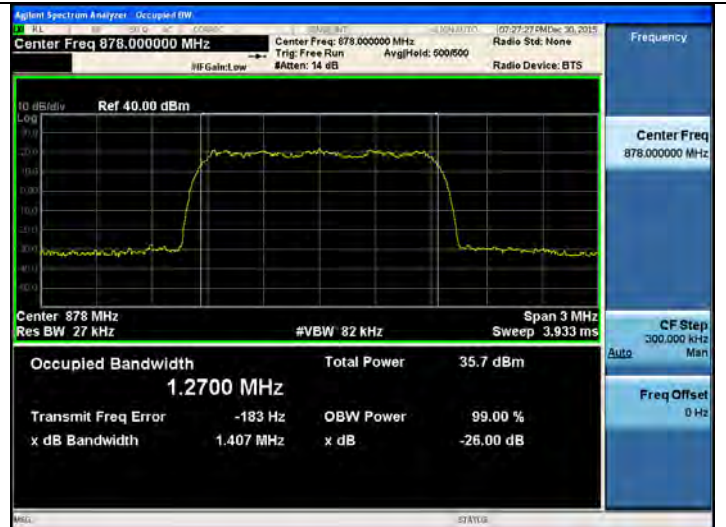
CDMA High]



[SMR 800,850 Cellular Band +3dBm above the AGC threshold
Downlink Output CDMA Low]



SMR 800,850 Cellular Band +3dBm above the AGC threshold
Downlink Output CDMA Mid]



[SMR 800,850 Cellular Band +3dBm above the AGC threshold
Downlink Output CDMA High]



850 Cellular Band_GSM DL_Output

[850 Cellular Band AGC threshold Downlink Output

GSM Low]



[850 Cellular Band AGC threshold Downlink Output

GSM Mid]



[850 Cellular Band AGC threshold Downlink Output

GSM High]



[850 Cellular Band +3dBm above the AGC threshold Downlink Output

GSM Low]



[850 Cellular Band +3dBm above the AGC threshold Downlink Output

GSM Mid]



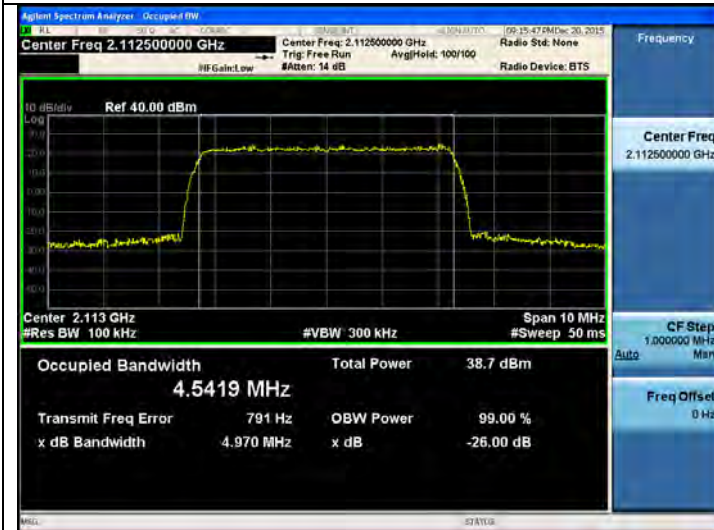
[850 Cellular Band +3dBm above the AGC threshold Downlink

Output GSM High]

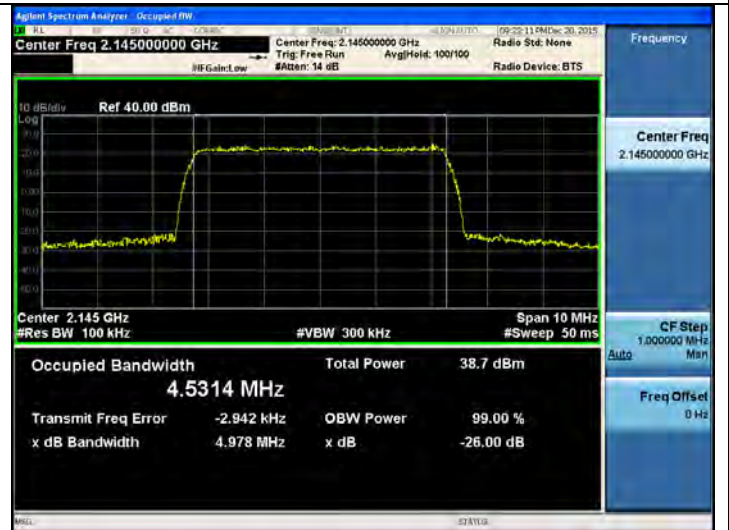


AWS 2100_LTE 5MHz DL_Output

[AWS2100 AGC threshold Downlink Output LTE 5MHz Low]



[AWS2100 AGC threshold Downlink Output LTE 5MHz Mid]



[AWS2100 AGC threshold Downlink Output LTE 5MHz High]



[AWS2100 +3dBm above the AGC threshold Downlink Output
LTE 5MHz Low]



[AWS2100 +3dBm above the AGC threshold Downlink Output
LTE 5MHz Mid]



[AWS2100 +3dBm above the AGC threshold Downlink Output
LTE 5MHz High]



AWS 2100_LTE 10MHz DL_Output

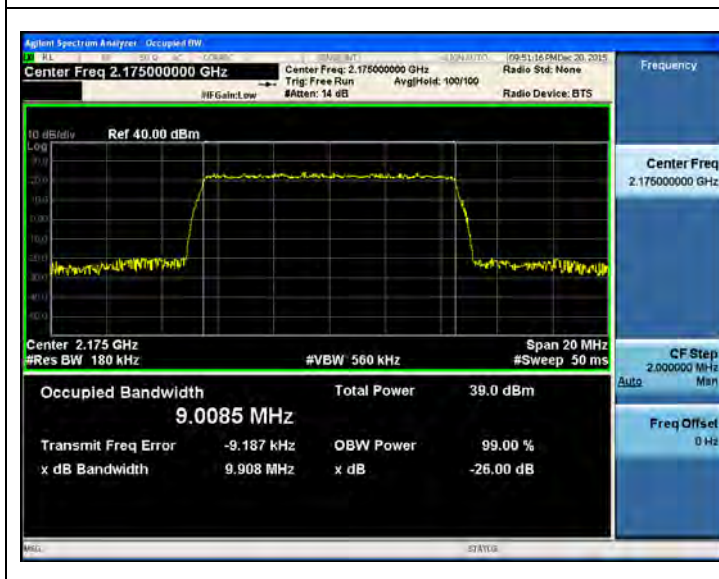
[AWS2100 AGC threshold Downlink Output LTE 10MHz Low]



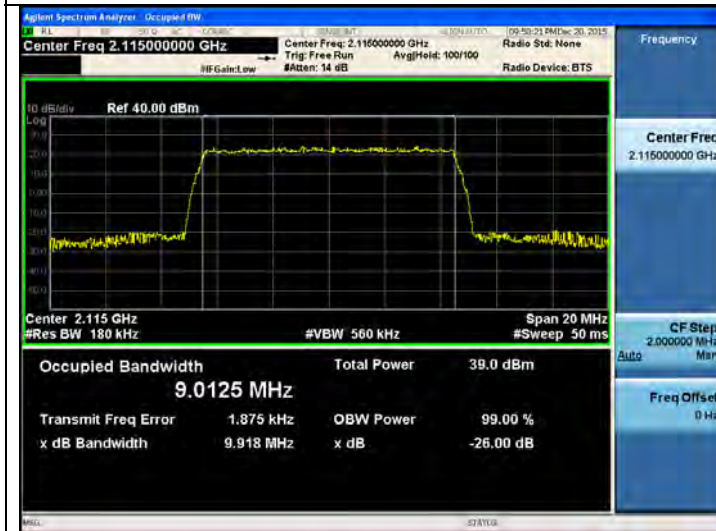
[AWS2100 AGC threshold Downlink Output LTE 10MHz Mid]



[AWS2100 AGC threshold Downlink Output LTE 10MHz High]



[AWS2100 +3dBm above the AGC threshold Downlink Output
LTE 10MHz Low]



[AWS2100 +3dBm above the AGC threshold Downlink Output
LTE 10MHz Mid]

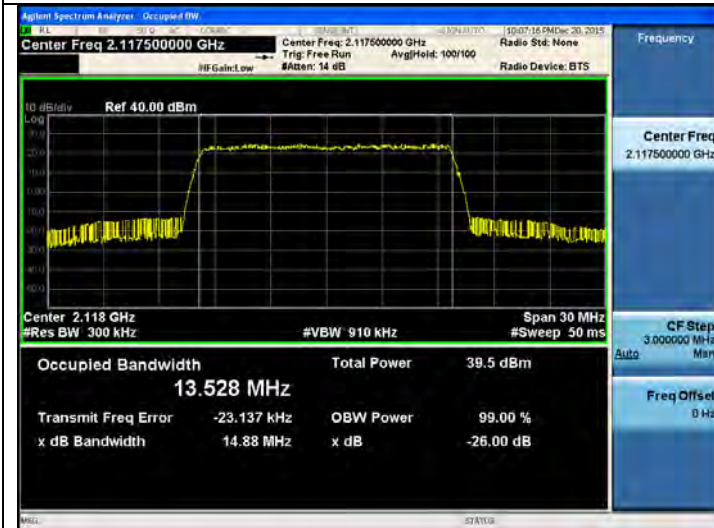


[AWS2100 +3dBm above the AGC threshold Downlink Output
LTE 10MHz High]



AWS 2100_LTE 15 MHz DL_Output

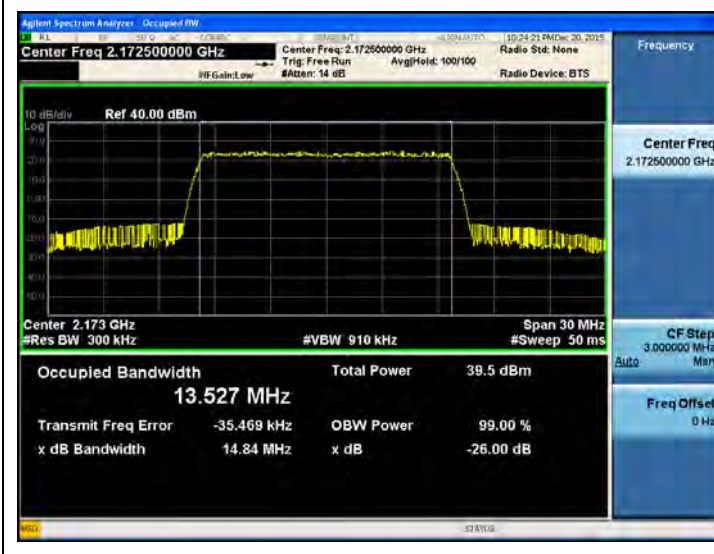
[AWS2100 AGC threshold Downlink Output LTE 15MHz Low]



[AWS2100 AGC threshold Downlink Output LTE 15MHz Mid]

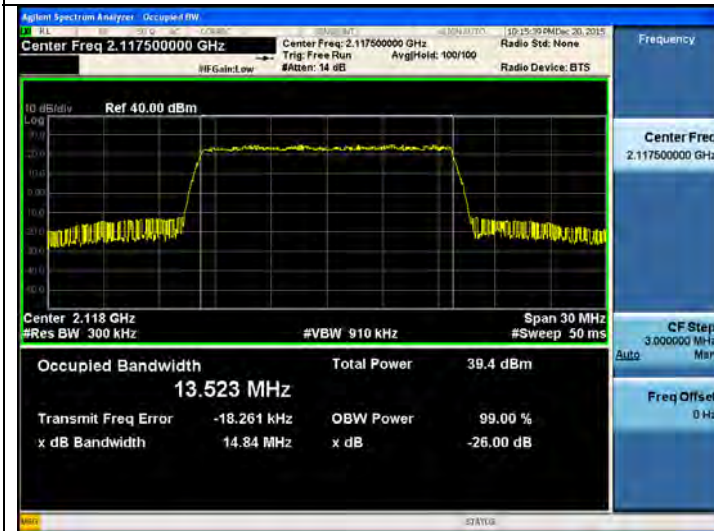


[AWS2100 AGC threshold Downlink Output LTE 15MHz High]



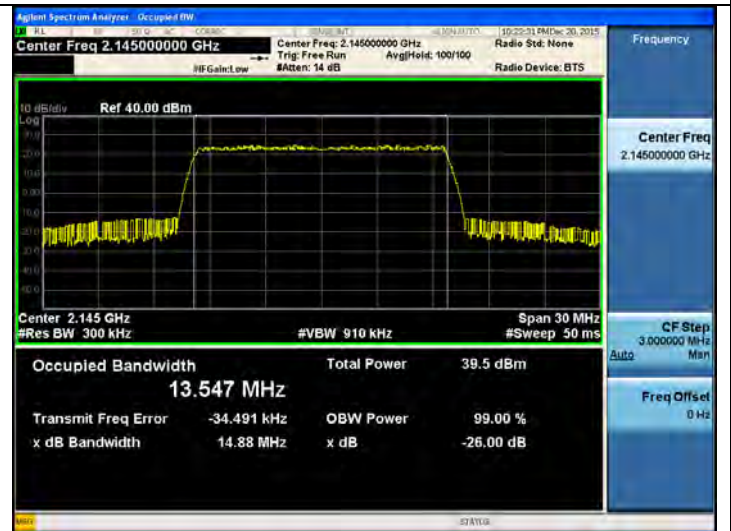
[AWS2100 +3dBm above the AGC threshold Downlink Output

LTE 15MHz Low]



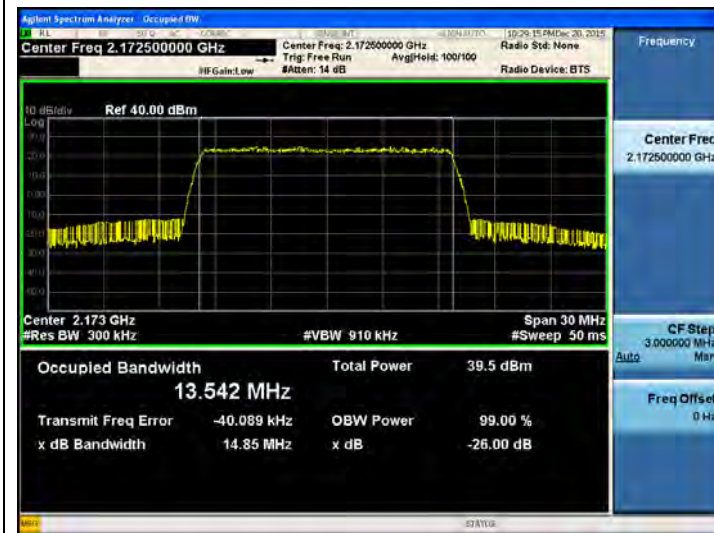
[AWS2100 +3dBm above the AGC threshold Downlink Output

LTE 15MHz Mid]



[AWS2100 +3dBm above the AGC threshold Downlink Output

LTE 15MHz High]

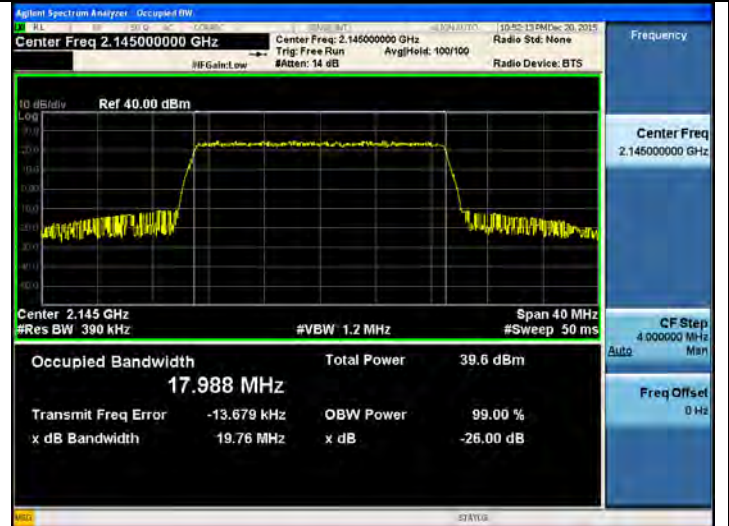


AWS 2100_LTE 20 MHz DL_Output

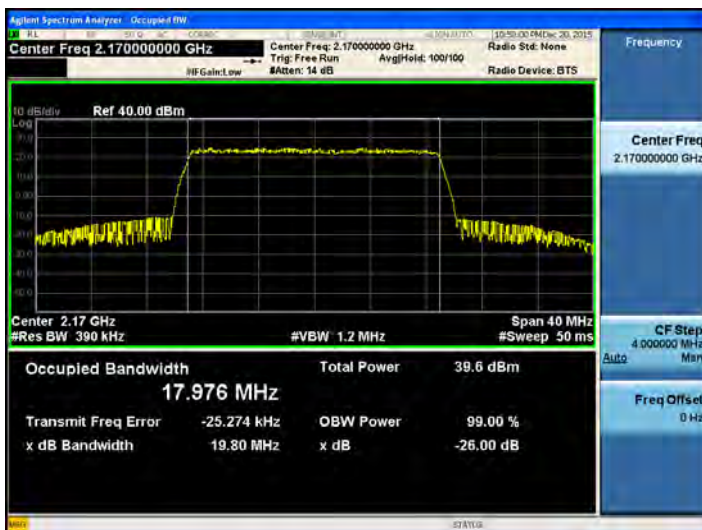
[AWS2100 AGC threshold Downlink Output LTE 20MHz Low]



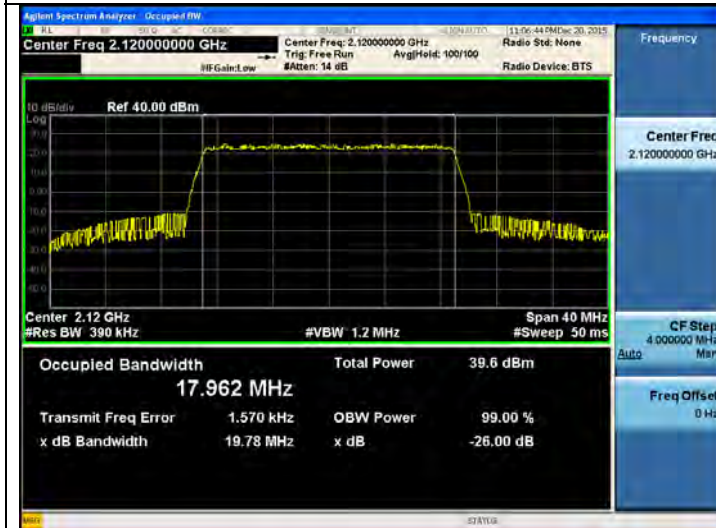
[AWS2100 AGC threshold Downlink Output LTE 20MHz Mid]



[AWS2100 AGC threshold Downlink Output LTE 20MHz High]



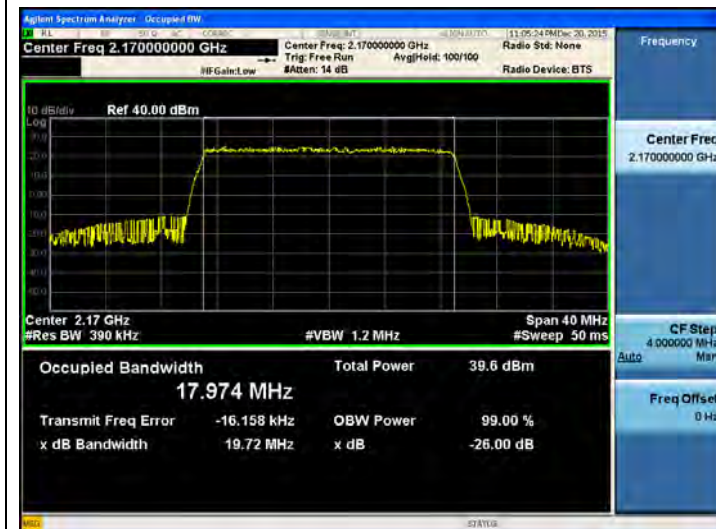
[AWS2100 +3dBm above the AGC threshold Downlink Output
LTE 20MHz Low]



[AWS2100 +3dBm above the AGC threshold Downlink Output
LTE 20MHz Mid]

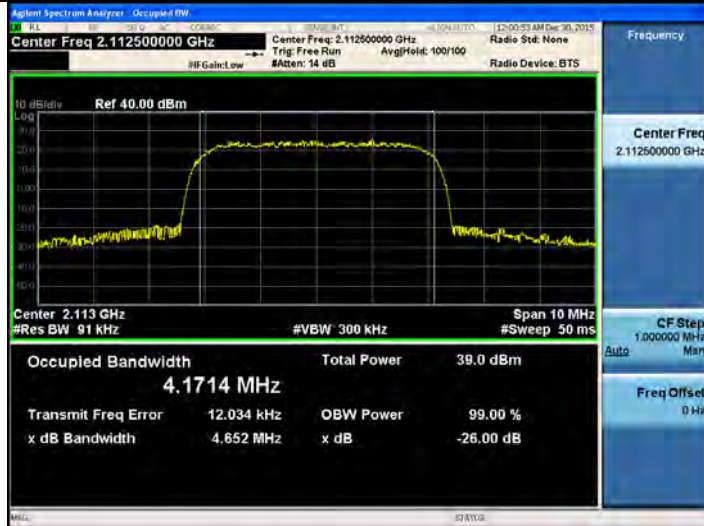


[AWS2100 +3dBm above the AGC threshold Downlink Output
LTE 20MHz High]



AWS 2100_UMTS DL_Output

[AWS2100 AGC threshold Downlink Output UMTS Low]



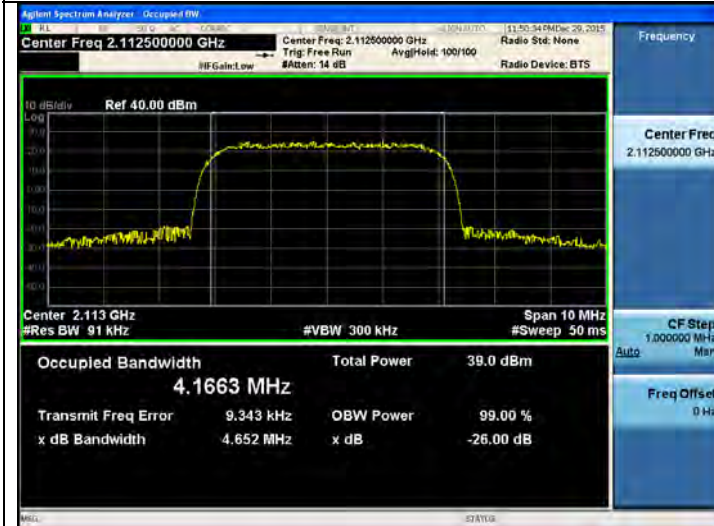
[AWS2100 AGC threshold Downlink Output UMTS Mid]



[AWS2100 AGC threshold Downlink Output UMTS High]



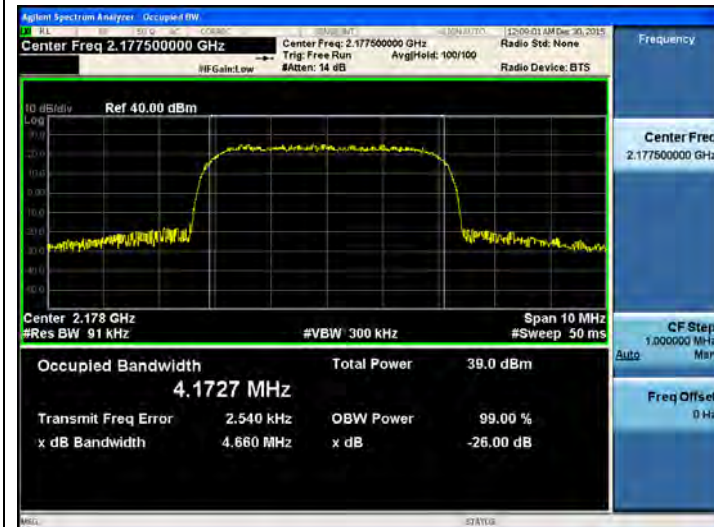
[AWS2100 +3dBm above the AGC threshold Downlink Output
UMTS Low]



[AWS2100 +3dBm above the AGC threshold Downlink Output
UMTS Mid]



[AWS2100 +3dBm above the AGC threshold Downlink Output
UMTS High]

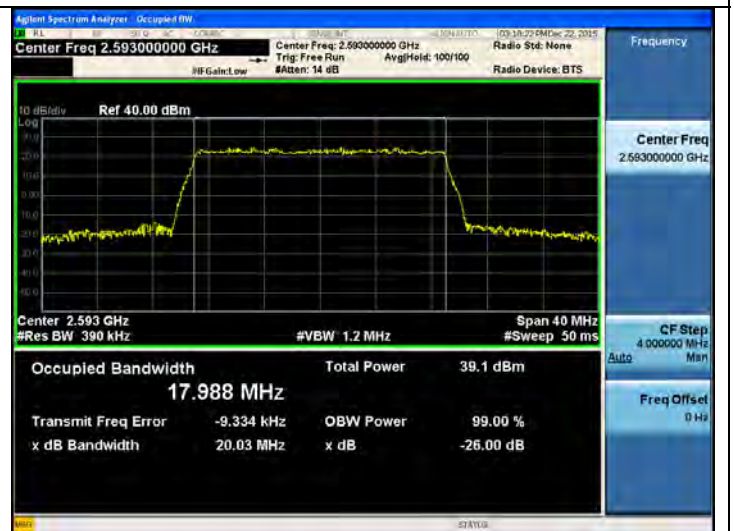


BRS_LTE 20MHz DL_Output

[BRS AGC threshold Downlink Output LTE10MHz Low]



[BRS AGC threshold Downlink Output LTE10MHz Mid]



[BRS AGC threshold Downlink Output LTE10MHz High]



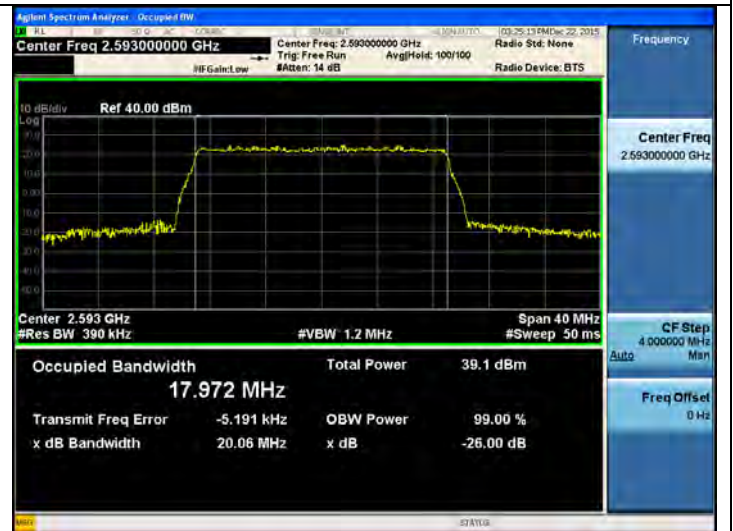
[BRS +3dBm above the AGC threshold Downlink Output

LTE 10MHz Low]



[BRS +3dBm above the AGC threshold Downlink Output

LTE 10MHz Mid]



[BRS +3dBm above the AGC threshold Downlink Output

LTE 10MHz High]

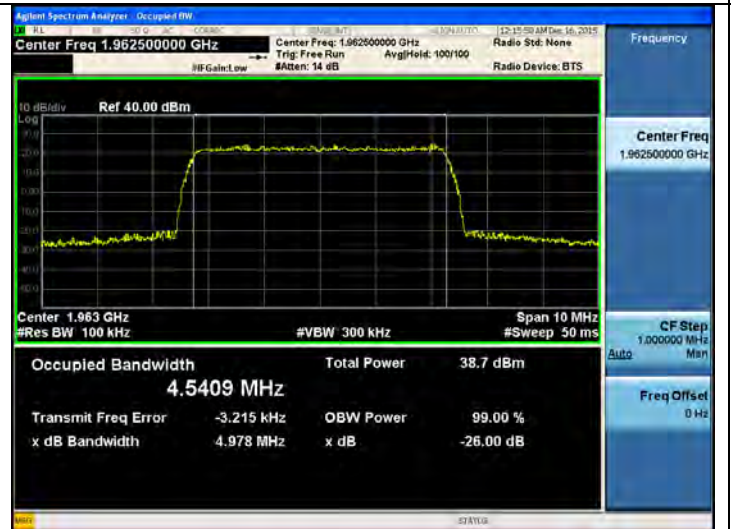


PCS 1900_LTE 5MHz DL_Output

[PCS1900 AGC threshold Downlink Output LTE5MHz Low]



[PCS1900 AGC threshold Downlink Output LTE5MHz Mid]



[PCS1900 AGC threshold Downlink Output LTE5MHz High]



[PCS1900 +3dBm above the AGC threshold Downlink Output
LTE 5MHz Low]



[PCS1900 +3dBm above the AGC threshold Downlink Output
LTE 5MHz Mid]

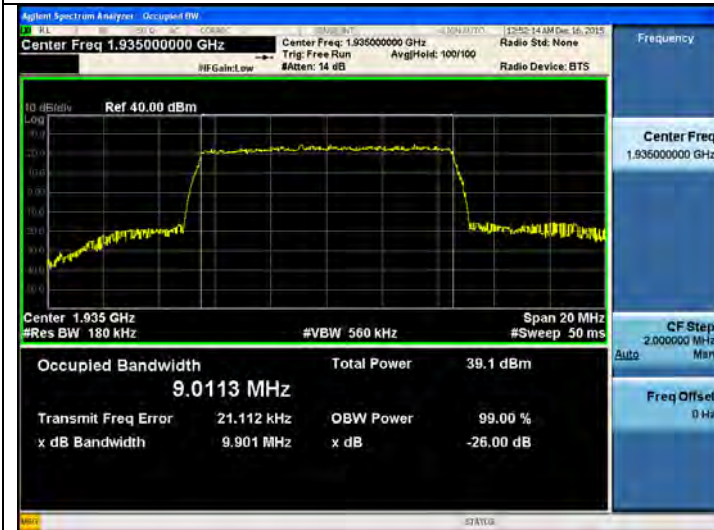


[PCS1900 +3dBm above the AGC threshold Downlink Output
LTE 5MHz High]

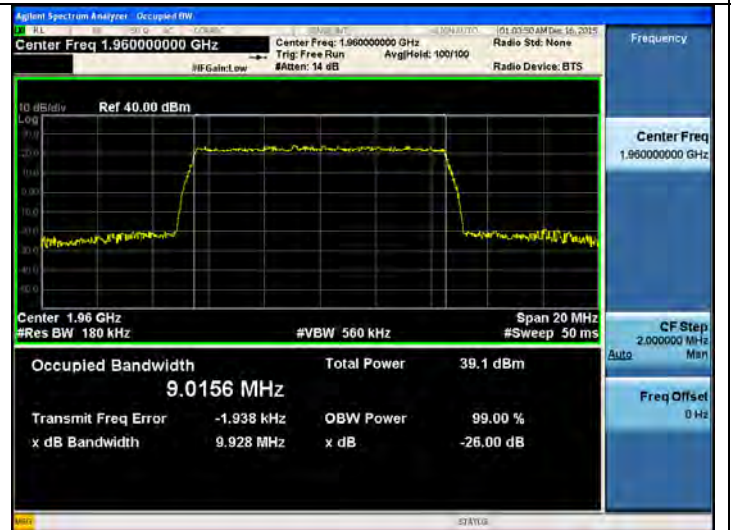


PCS 1900_LTE 10MHz DL_Output

[PCS1900 AGC threshold Downlink Output LTE10MHz Low]



[PCS1900 AGC threshold Downlink Output LTE10MHz Mid]



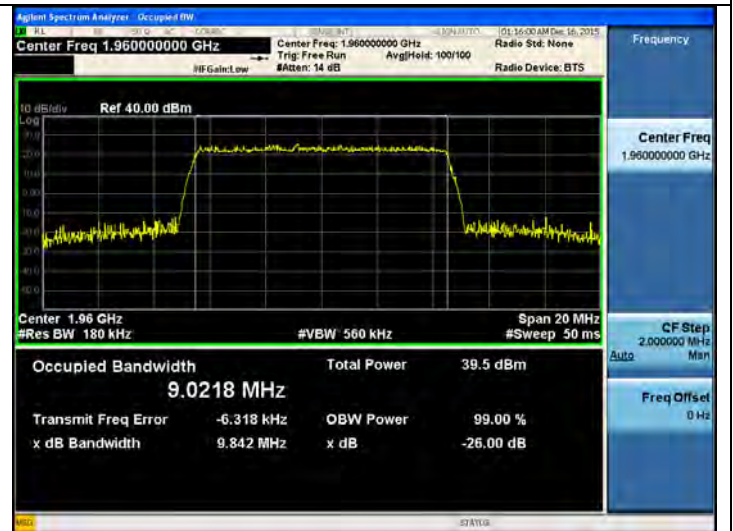
[PCS1900 AGC threshold Downlink Output LTE10MHz High]



[PCS1900 +3dBm above the AGC threshold Downlink Output
LTE 10MHz Low]



[PCS1900 +3dBm above the AGC threshold Downlink Output
LTE 10MHz Mid]



[PCS1900 +3dBm above the AGC threshold Downlink Output
LTE 10MHz High]



PCS 1900_UMTS DL_Output

[PCS1900 AGC threshold Downlink Output UMTS Low]



[PCS1900 AGC threshold Downlink Output UMTS Mid]



[PCS1900 AGC threshold Downlink Output UMTS High]



[PCS1900 +3dBm above the AGC threshold Downlink Output
UMTS Low]

[PCS1900 +3dBm above the AGC threshold Downlink Output
UMTS Mid]



[PCS1900 +3dBm above the AGC threshold Downlink Output
UMTS High]

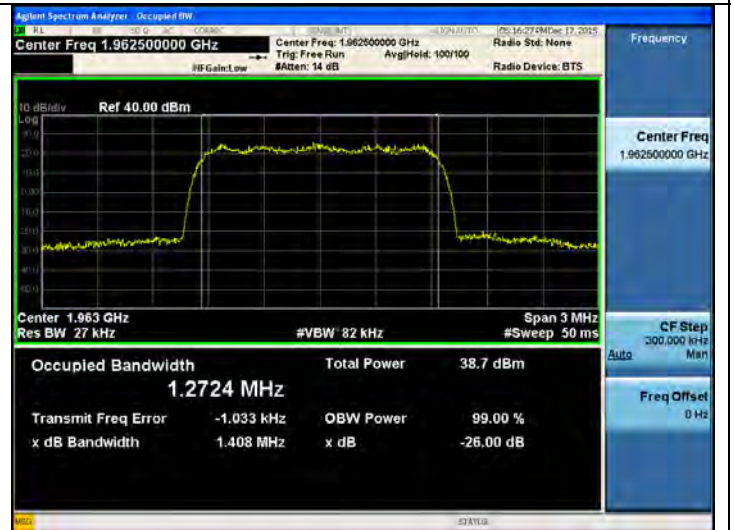


PCS 1900_CDMA DL_Output

[PCS1900 AGC threshold Downlink Output CDMA Low]



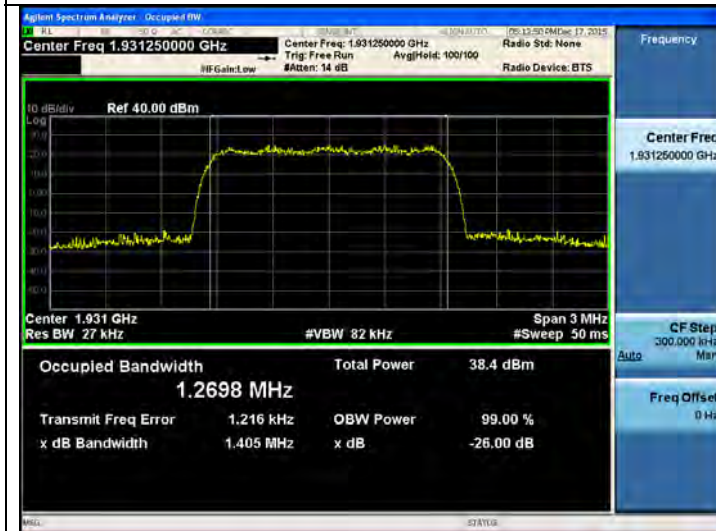
[PCS1900 AGC threshold Downlink Output CDMA Mid]



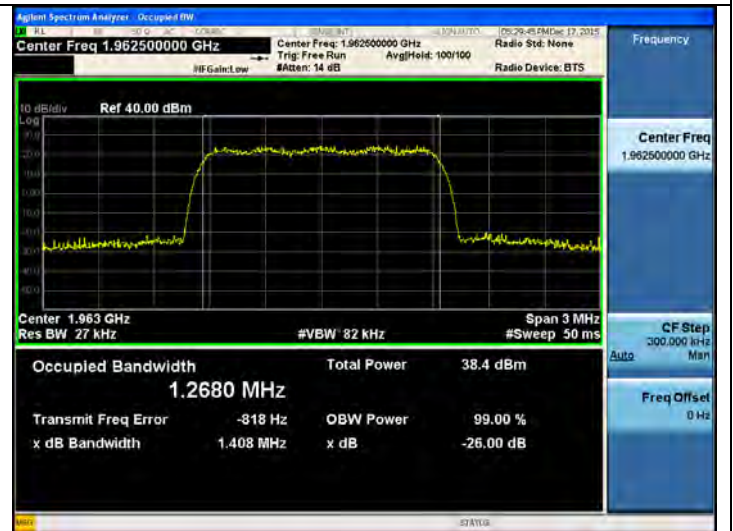
[PCS1900 AGC threshold Downlink Output CDMA High]



[PCS1900 +3dBm above the AGC threshold Downlink Output
CDMA Low]



[PCS1900 +3dBm above the AGC threshold Downlink Output
CDMA Mid]



[PCS1900 +3dBm above the AGC threshold Downlink Output
CDMA High]



PCS 1900_GSM DL_Output

[PCS1900 AGC threshold Downlink Output GSM Low]



[PCS1900 AGC threshold Downlink Output GSM Mid]



[PCS1900 AGC threshold Downlink Output GSM High]



[PCS1900 +3dBm above the AGC threshold Downlink Output
GSM Low]



[PCS1900 +3dBm above the AGC threshold Downlink Output
GSM Mid]



[PCS1900 +3dBm above the AGC threshold Downlink Output
GSM High]



WCS_LTE 10MHz DL_Output

[WCS AGC threshold Downlink Output LTE 10MHz Mid]



[WCS +3dBm above the AGC threshold Downlink Output
LTE 10MHzMid]



700 MHz Band_LTE 5MHz DL_Input

[700 Band AGC threshold Downlink Input LTE 5 MHz Low]



[700 Band AGC threshold Downlink Input LTE 5 MHz Mid]

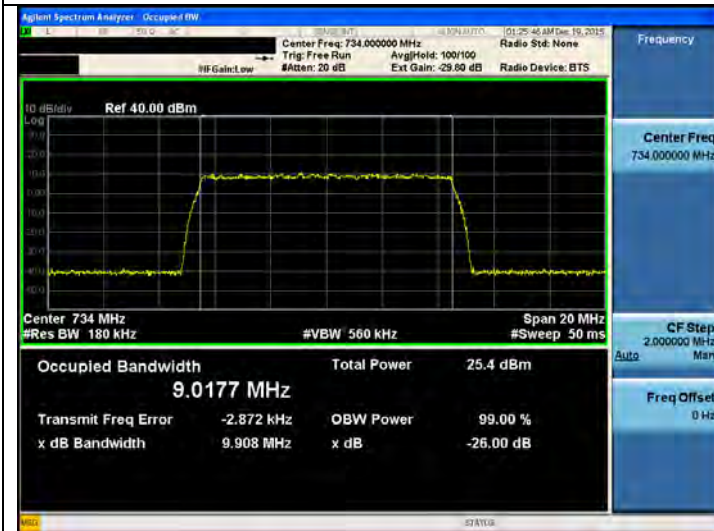


[700 Band AGC threshold Downlink Input LTE 5 MHz High]

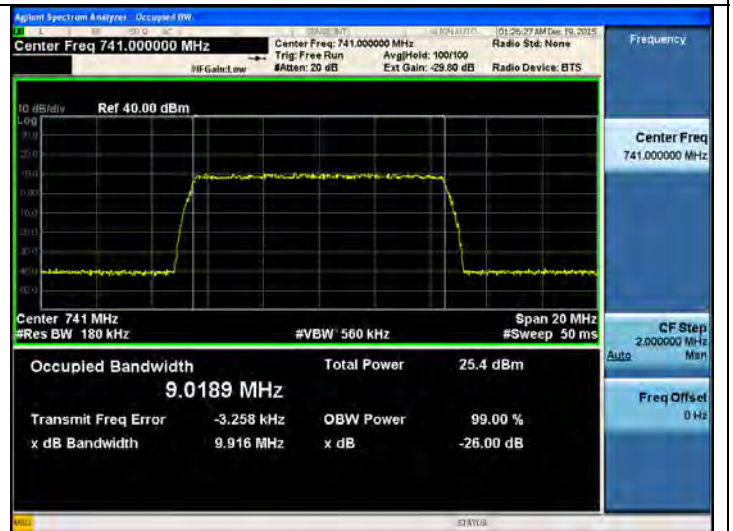


700 MHz Band_LTE 10MHz DL_Input

[700 Band AGC threshold Downlink Input LTE 10 MHz Low]



[700 Band AGC threshold Downlink Input LTE 10 MHz Mid]



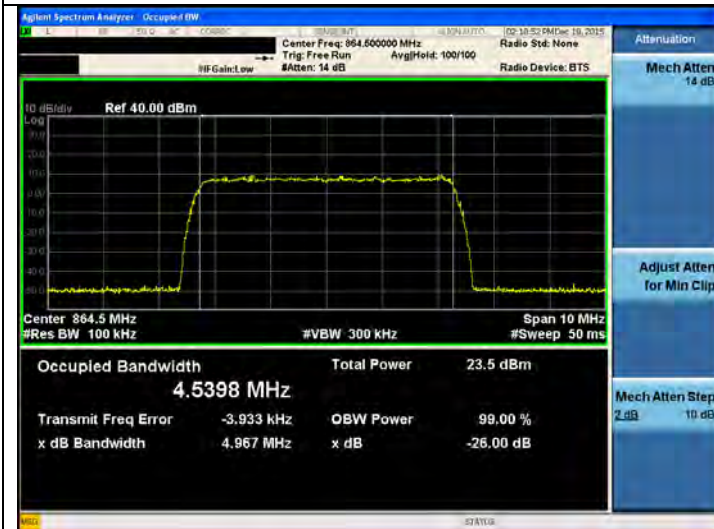
[700 Band AGC threshold Downlink Input LTE 10 MHz High]



SMR 800,850 Cellular Band_LTE 5 MHz DL_Input

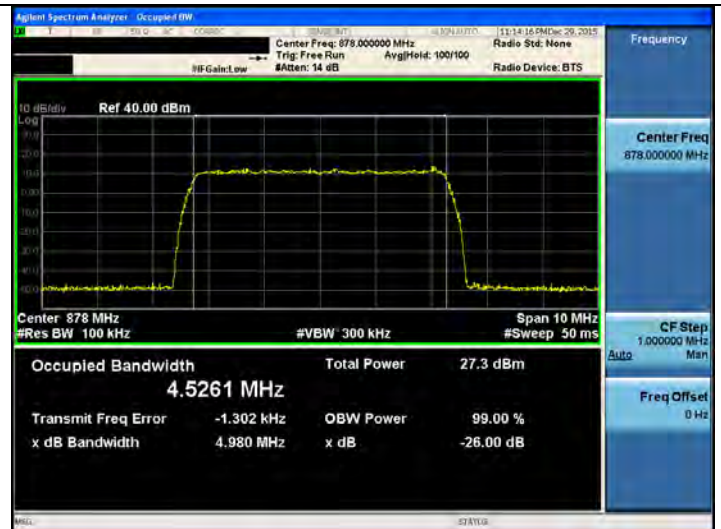
[SMR 800,850 Cellular Band AGC threshold Downlink Input

LTE 5 MHz Low]



[SMR 800,850 Cellular Band AGC threshold Downlink Input

LTE 5 MHz Mid]



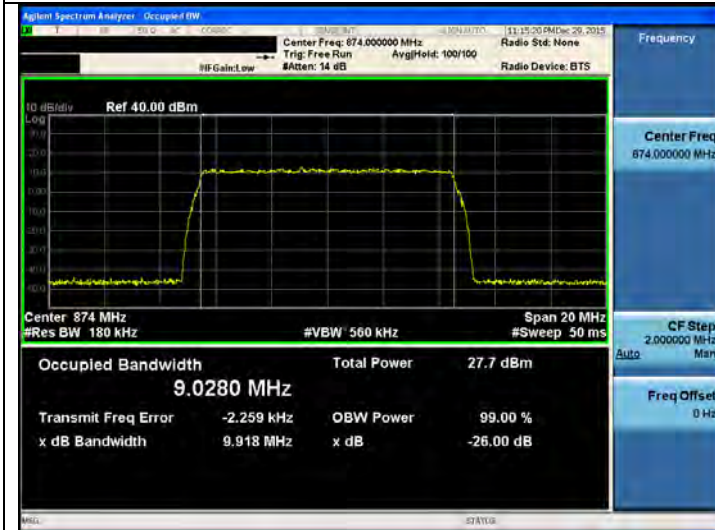
[SMR 800,850 Cellular Band AGC threshold Downlink Input

LTE 5 MHz High]

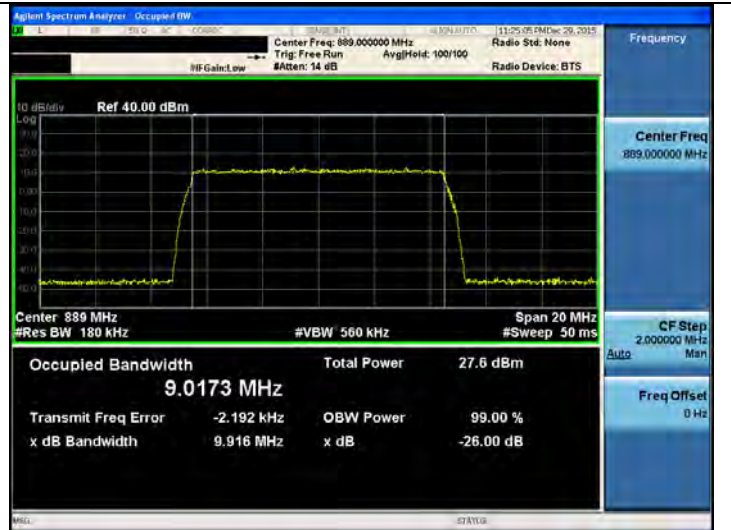


850 Cellular Band_LTE 10 MHz DL_Input

[850 Cellular Band AGC threshold Downlink Input
LTE 10 MHz Low]



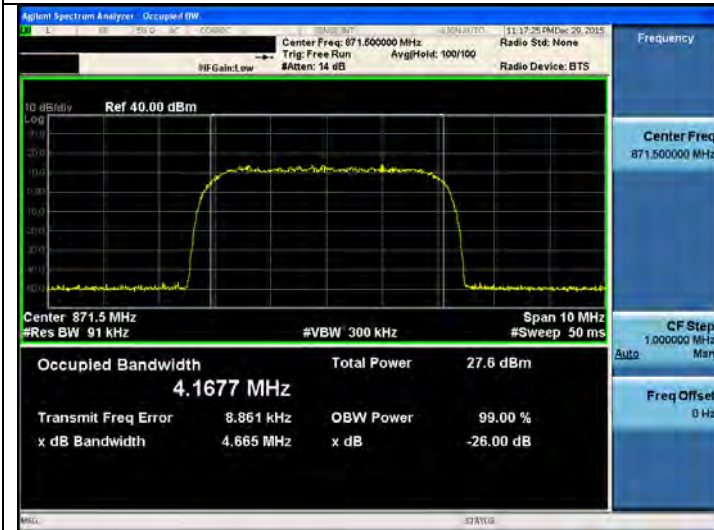
[850 Cellular Band AGC threshold Downlink Input
LTE 10 MHz High]



850 Cellular Band_UMTS DL_Input

[850 Cellular Band AGC threshold Downlink Input

UMTS Low]



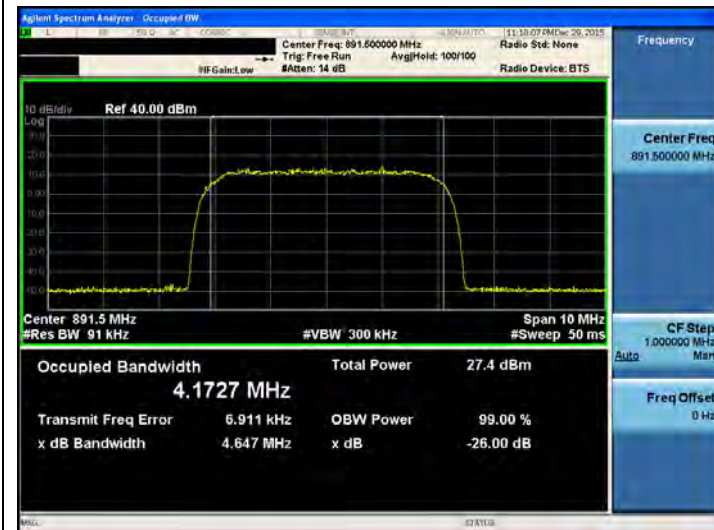
[850 Cellular Band AGC threshold Downlink Input

UMTS Mid]



[850 Cellular Band AGC threshold Downlink Input

UMTS High]



SMR 800,850 Cellular Band_CDMA DL_Input

[SMR 800,850 Cellular Band AGC threshold Downlink Input

CDMA Low]



[SMR 800,850 Cellular Band AGC threshold Downlink Input

CDMA Mid]



[SMR 800,850 Cellular Band AGC threshold Downlink Input

CDMA High]



850 Cellular Band_GSM DL_Input

[850 Cellular Band AGC threshold Downlink Input

GSM Low]



[850 Cellular Band AGC threshold Downlink Input

GSM Mid]



[850 Cellular Band AGC threshold Downlink Input

GSM High]



AWS 2100_LTE 5MHz DL_Input

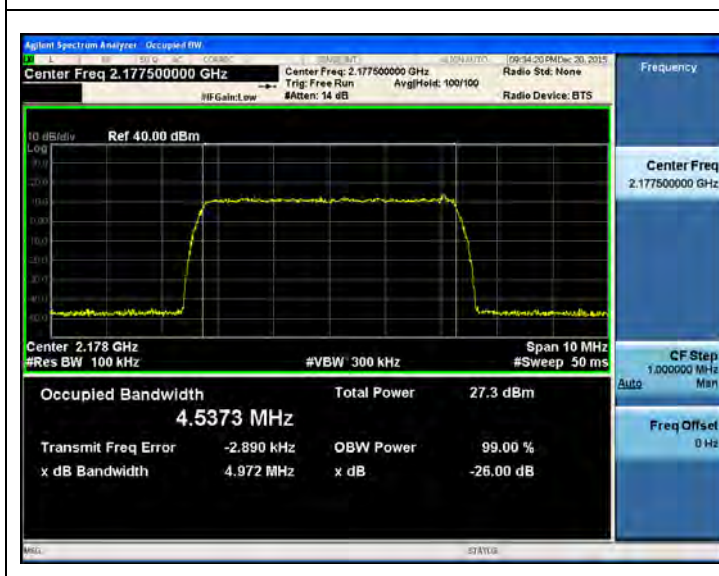
[AWS2100 AGC threshold Downlink Input LTE 5MHz Low]



[AWS2100 AGC threshold Downlink Input LTE 5MHz Mid]

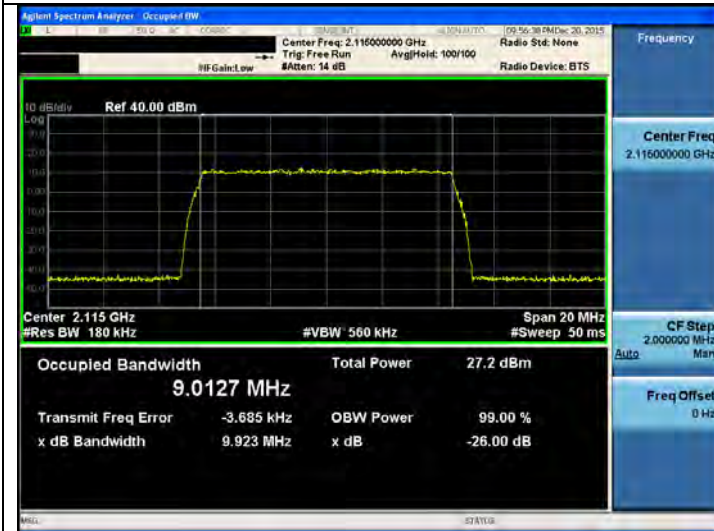


[AWS2100 AGC threshold Downlink Input LTE 5MHz High]

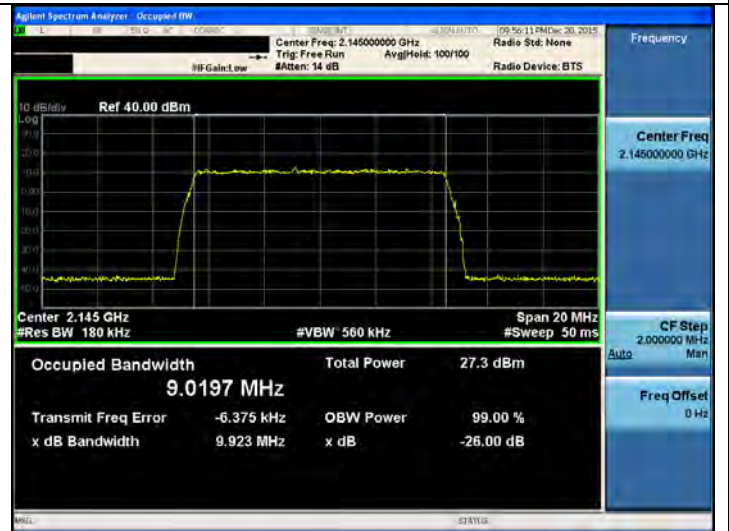


AWS 2100_LTE 10MHz DL_Input

[AWS2100 AGC threshold Downlink Input LTE 10MHz Low]



[AWS2100 AGC threshold Downlink Input LTE 10MHz Mid]



[AWS2100 AGC threshold Downlink Input LTE 10MHz High]

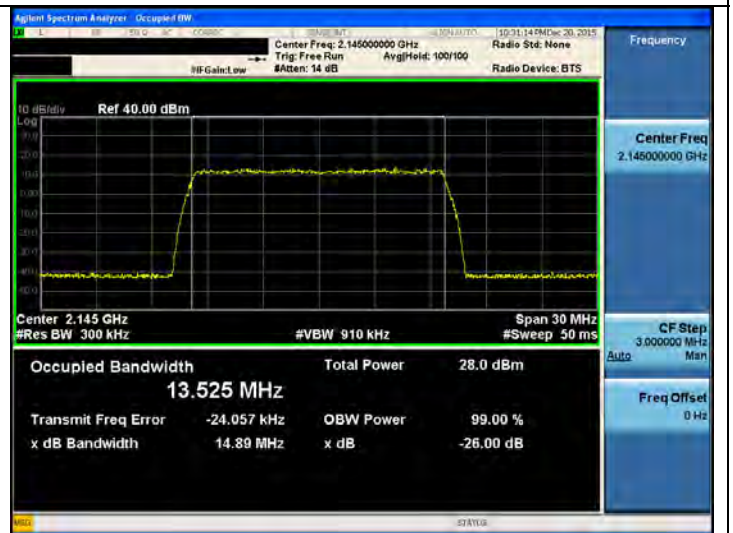


AWS 2100_LTE 15 MHz DL_Input

[AWS2100 AGC threshold Downlink Input LTE 15MHz Low]



[AWS2100 AGC threshold Downlink Input LTE 15MHz Mid]



[AWS2100 AGC threshold Downlink Input LTE 15MHz High]



AWS 2100_LTE 20 MHz DL_Input

[AWS2100 AGC threshold Downlink Input LTE 20MHz Low]



[AWS2100 AGC threshold Downlink Input LTE 20MHz Mid]

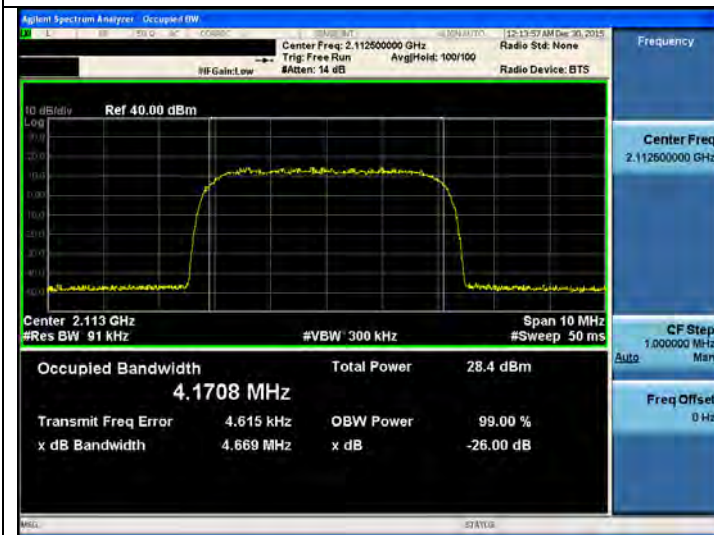


[AWS2100 AGC threshold Downlink Input LTE 20MHz High]



AWS 2100_UMTS DL_Input

[AWS2100 AGC threshold Downlink Input UMTS Low]



[AWS2100 AGC threshold Downlink Input UMTS Mid]

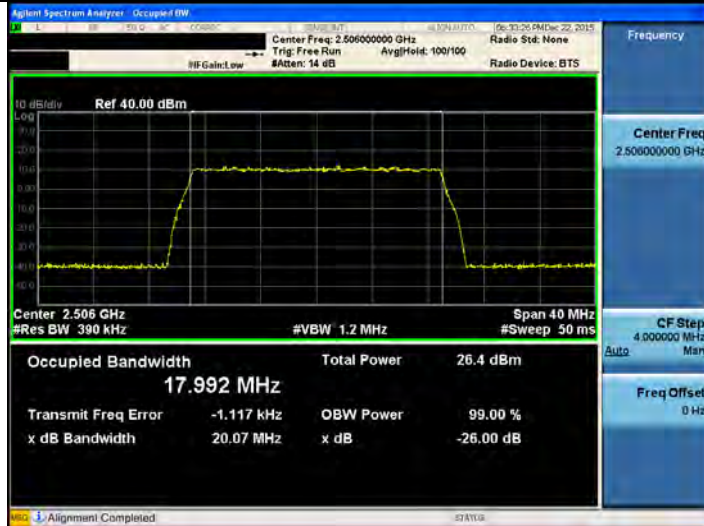


[AWS2100 AGC threshold Downlink Input UMTS High]



BRS_LTE 20MHz DL_Input

[BRS AGC threshold Downlink Input LTE10MHz Low]



[BRS AGC threshold Downlink Input LTE10MHz Mid]

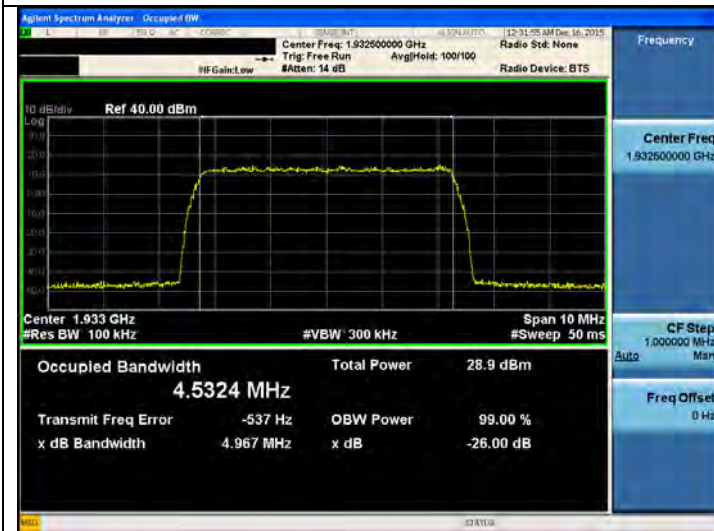


[BRS AGC threshold Downlink Input LTE10MHz High]

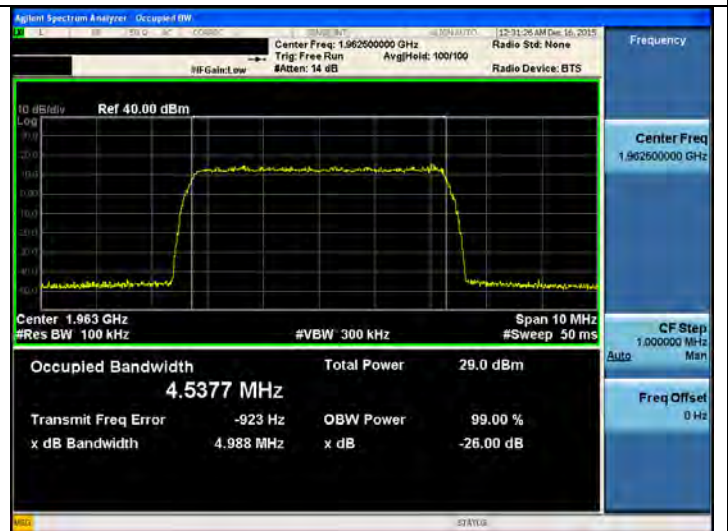


PCS 1900_LTE 5MHz DL_Input

[PCS1900 AGC threshold Downlink Input LTE5MHz Low]



[PCS1900 AGC threshold Downlink Input LTE5MHz Mid]

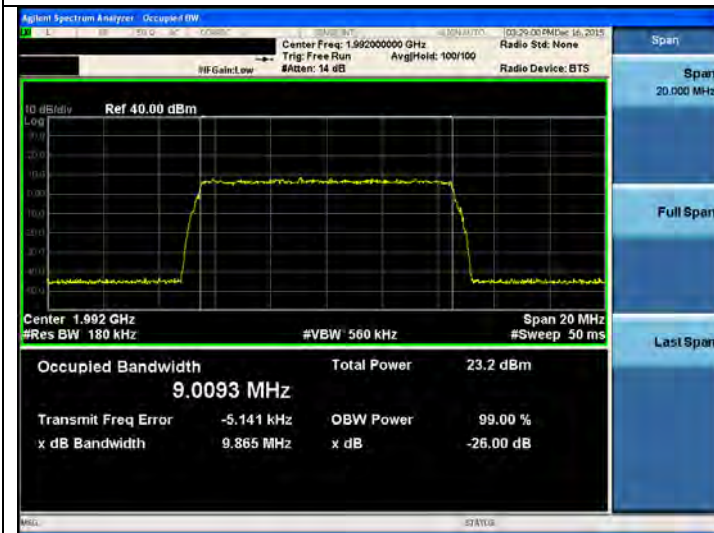


[PCS1900 AGC threshold Downlink Input LTE5MHz High]

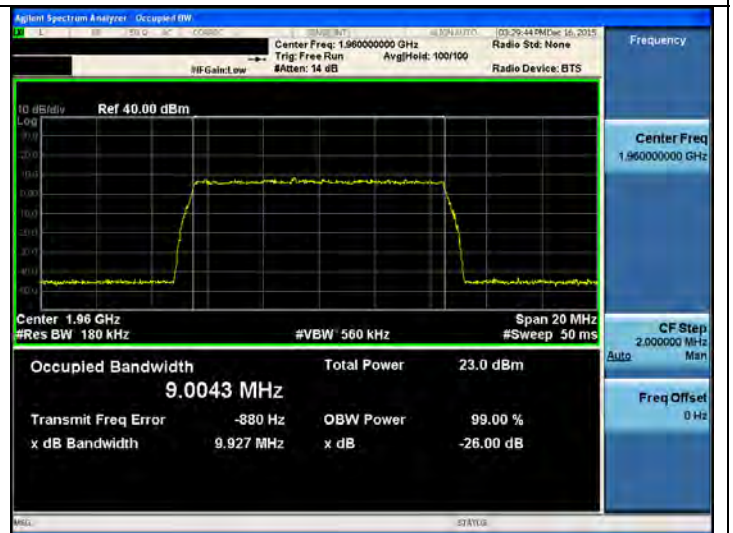


PCS 1900_LTE 10MHz DL_Input

[PCS1900 AGC threshold Downlink Input LTE10MHz Low]



[PCS1900 AGC threshold Downlink Output Input LTE10MHz Mid]

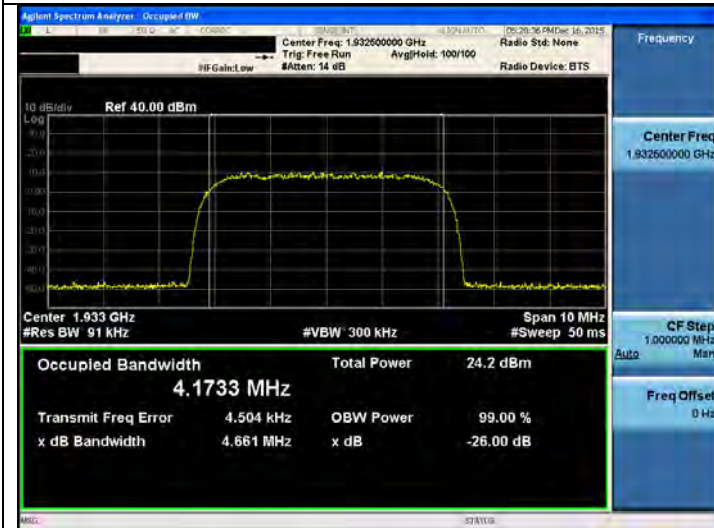


[PCS1900 AGC threshold Downlink Input LTE10MHz High]

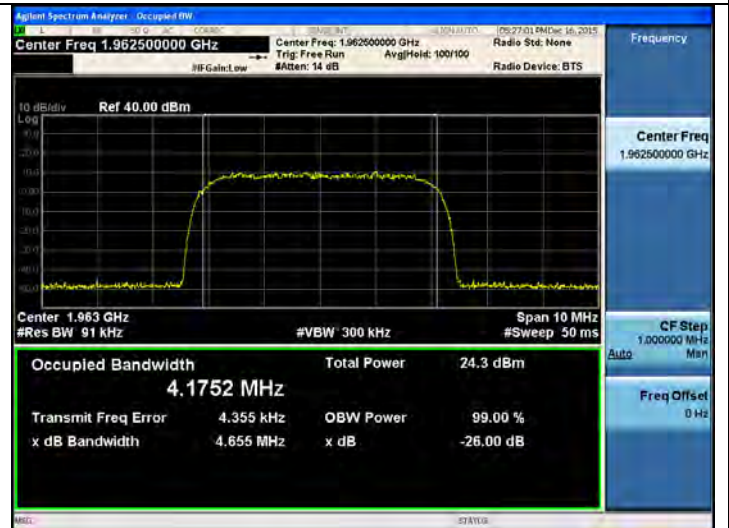


PCS 1900_UMTS DL_Input

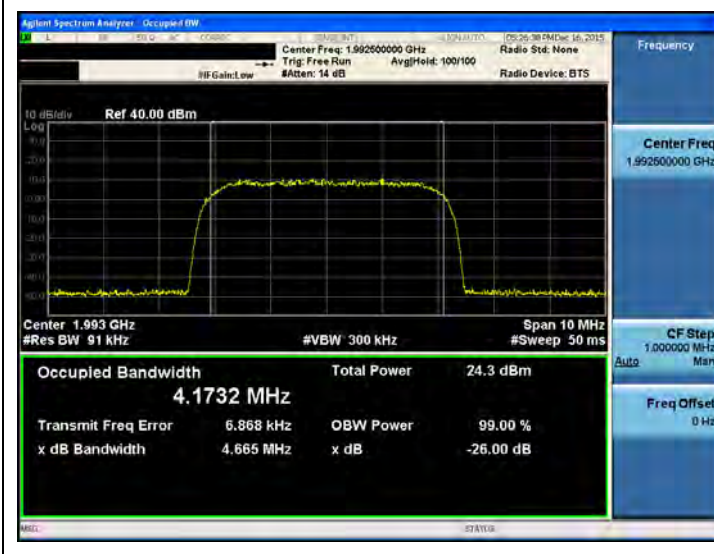
[PCS1900 AGC threshold Downlink Input UMTS Low]



[PCS1900 AGC threshold Downlink Input UMTS Mid]



[PCS1900 AGC threshold Downlink Input UMTS High]



PCS 1900_CDMA DL_Input

[PCS1900 AGC threshold Downlink Input CDMA Low]



[PCS1900 AGC threshold Downlink Input CDMA Mid]



[PCS1900 AGC threshold Downlink Input CDMA High]



PCS 1900_GSM DL_Input

[PCS1900 AGC threshold Downlink Input GSM Low]



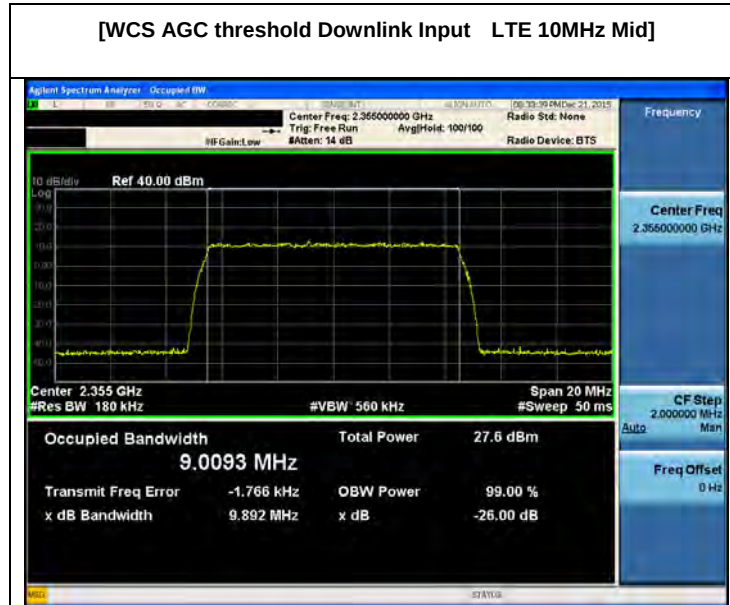
[PCS1900 AGC threshold Downlink Input GSM Mid]



[PCS1900 AGC threshold Downlink Input GSM High]



WCS_LTE 10MHz DL_Input



700 MHz Band_LTE 5MHz UL_Output

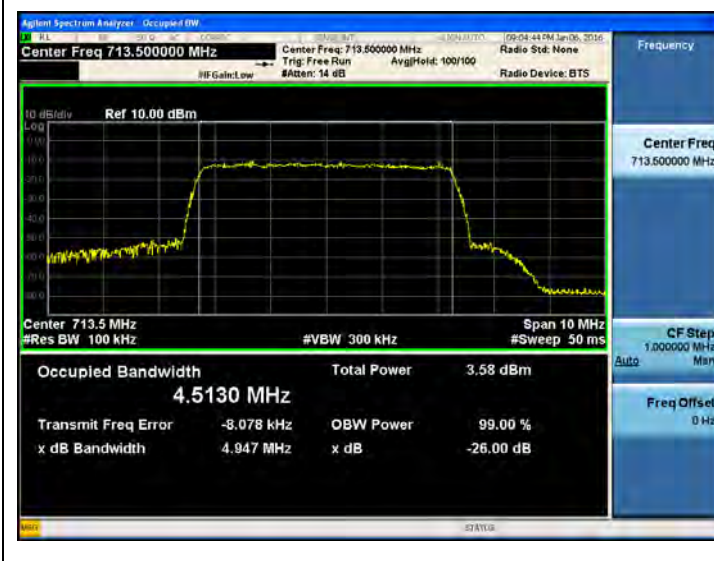
[700 Band AGC threshold Uplink Output LTE 5 MHz Low]



[700 Band AGC threshold Uplink Output LTE 5 MHz Mid]



[700 Band AGC threshold Uplink Output LTE 5 MHz High]



[700 Band +3dBm above the AGC threshold Uplink Output

LTE 5 MHz Low]



[700 Band +3dBm above the AGC threshold Uplink Output

LTE 5 MHz Mid]



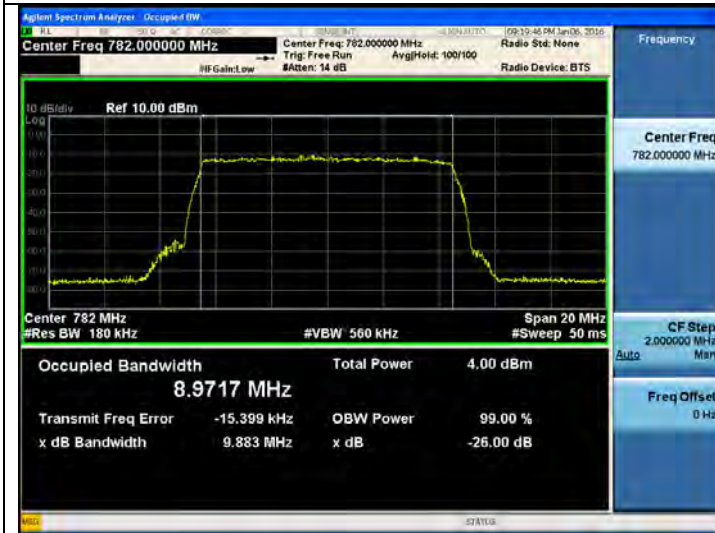
[700 Band +3dBm above the AGC threshold Uplink Output

LTE 5 MHz High]

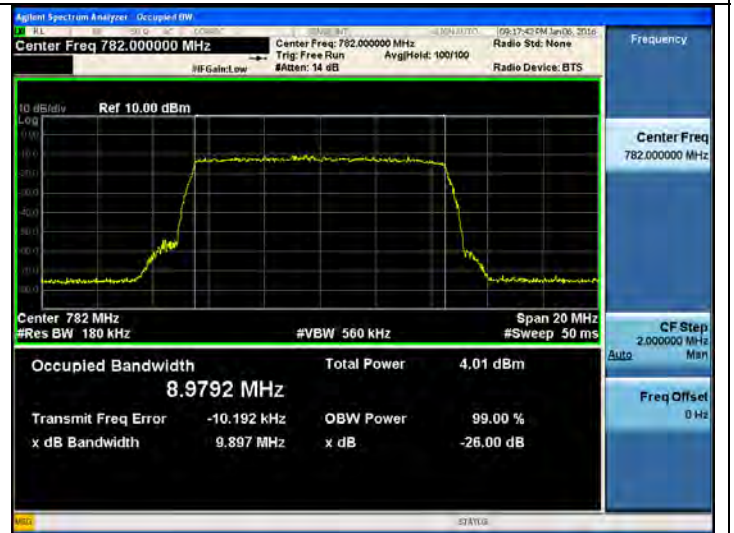


700 MHz Band_LTE 10MHz UL_Output

[700 Band AGC threshold Uplink Output LTE 10 MHz Mid]

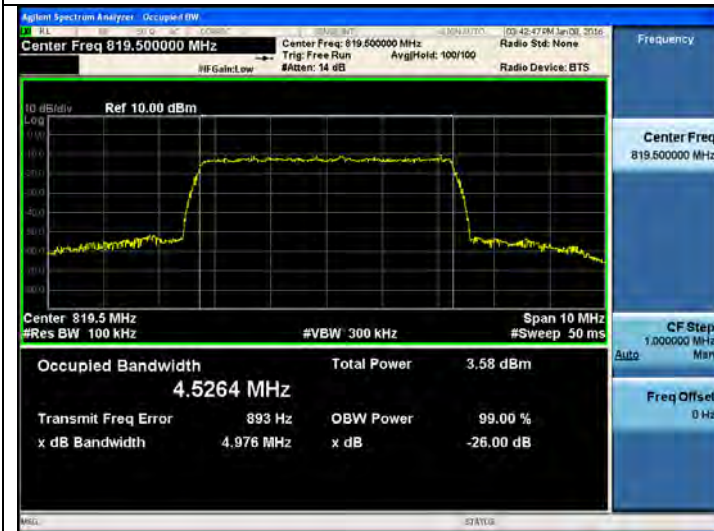


[700 Band +3dBm above the AGC threshold Uplink Output
LTE 10 MHz Mid]

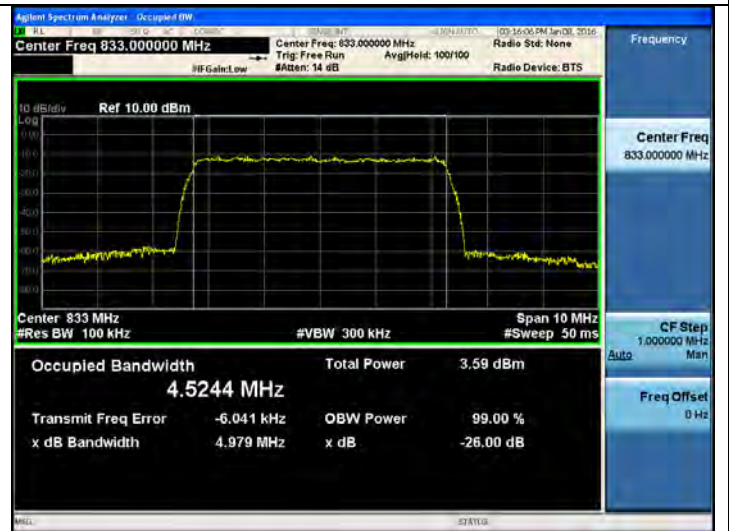


SMR 800,850 Cellular Band_LTE 5 MHz UL_Output

[SMR 800,850 Cellular Band AGC threshold Uplink Output
LTE 5 MHz Low]



[SMR 800,850 Cellular Band AGC threshold Uplink Output
LTE 5 MHz Mid]

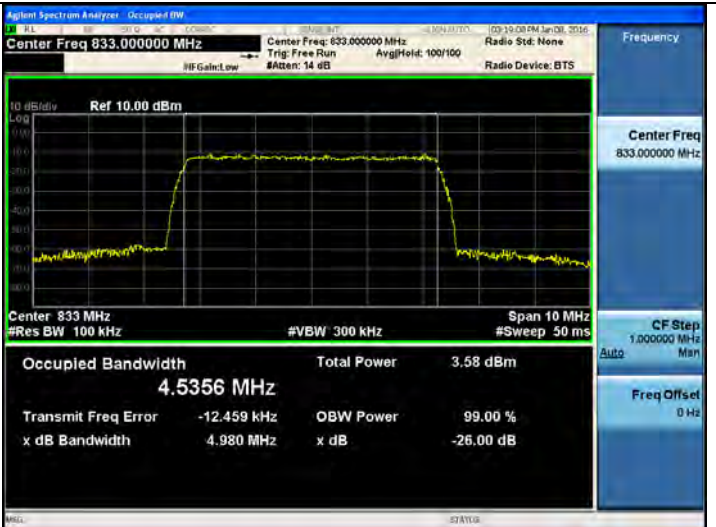


[SMR 800,850 Cellular Band AGC threshold Uplink Output
LTE 5 MHz High]



[SMR 800,850 Cellular Band +3dBm above the AGC threshold Uplink
Output LTE 5 MHz Low]

SMR 800,850 Cellular Band +3dBm above the AGC threshold Uplink
Output LTE 5 MHz Mid]



[SMR 800,850 Cellular Band +3dBm above the AGC threshold Uplink
Output LTE 5 MHz High]



850 Cellular Band_LTE 10 MHz UL_Output

[850 Cellular Band AGC threshold Uplink Output

LTE 10 MHz Low]



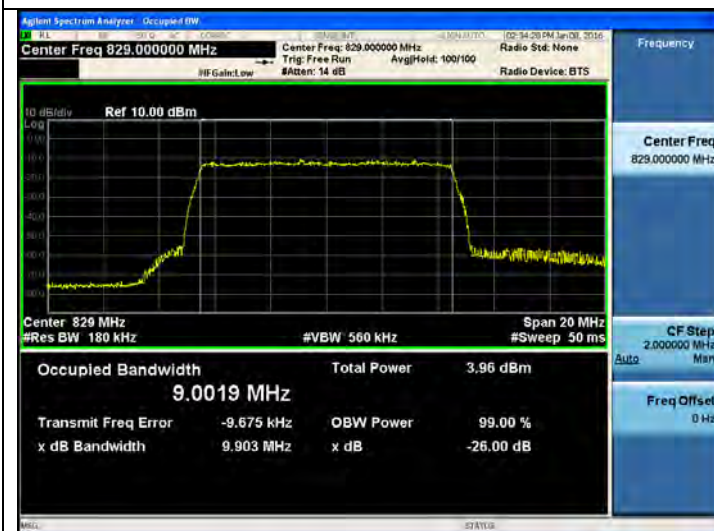
[850 Cellular Band AGC threshold Uplink Output

LTE 10 MHz High]



[850 Cellular Band +3dBm above the AGC threshold Uplink Output

LTE 10 MHz Low]



[850 Cellular Band +3dBm above the AGC threshold Uplink Output

LTE 10 MHz High]



850 Cellular Band_UMTS UL_Output

[850 Cellular Band AGC threshold Uplink Output

UMTS Low]



[850 Cellular Band AGC threshold Uplink Output

UMTS Mid]



[850 Cellular Band AGC threshold Uplink Output

UMTS High]



[850 Cellular Band +3dBm above the AGC threshold Uplink Output
UMTS Low]



[850 Cellular Band +3dBm above the AGC threshold Uplink Output
UMTS Mid]



[850 Cellular Band +3dBm above the AGC threshold Uplink Output
UMTS High]



SMR 800,850 Cellular Band_CDMA UL_Output

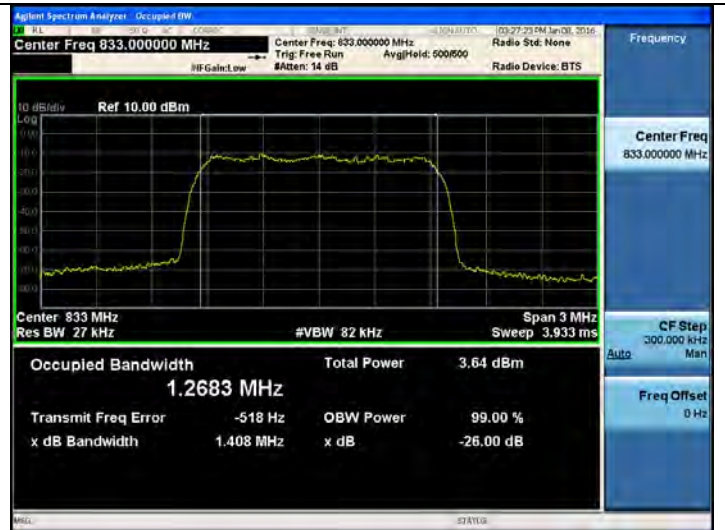
[SMR 800,850 Cellular Band AGC threshold Uplink Output

CDMA Low]



[SMR 800,850 Cellular Band AGC threshold Uplink Output

CDMA Mid]



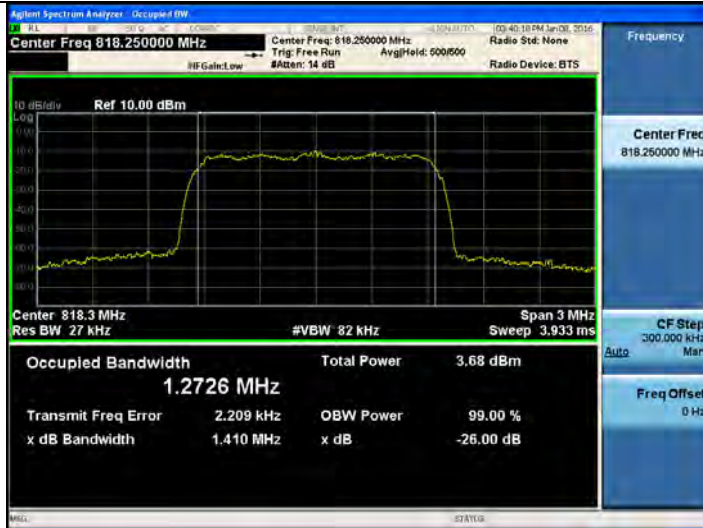
[SMR 800,850 Cellular Band AGC threshold Uplink Output

CDMA High]



[SMR 800,850 Cellular Band +3dBm above the AGC threshold Uplink
Output CDMA Low]

SMR 800,850 Cellular Band +3dBm above the AGC threshold Uplink
Output CDMA Mid]



[SMR 800,850 Cellular Band +3dBm above the AGC threshold Uplink
Output CDMA High]



850 Cellular Band_GSM UL_Output

[850 Cellular Band AGC threshold Uplink Output

GSM Low]



[850 Cellular Band AGC threshold Uplink Output

GSM Mid]



[850 Cellular Band AGC threshold Uplink Output

GSM High]



[850 Cellular Band +3dBm above the AGC threshold Uplink Output
GSM Low]



[850 Cellular Band +3dBm above the AGC threshold Uplink Output
GSM Mid]



[850 Cellular Band +3dBm above the AGC threshold Uplink Output
GSM High]



AWS 2100_LTE 5MHz UL_Output

[AWS2100 AGC threshold Uplink Output LTE 5MHz Low]



[AWS2100 AGC threshold Uplink Output LTE 5MHz Mid]



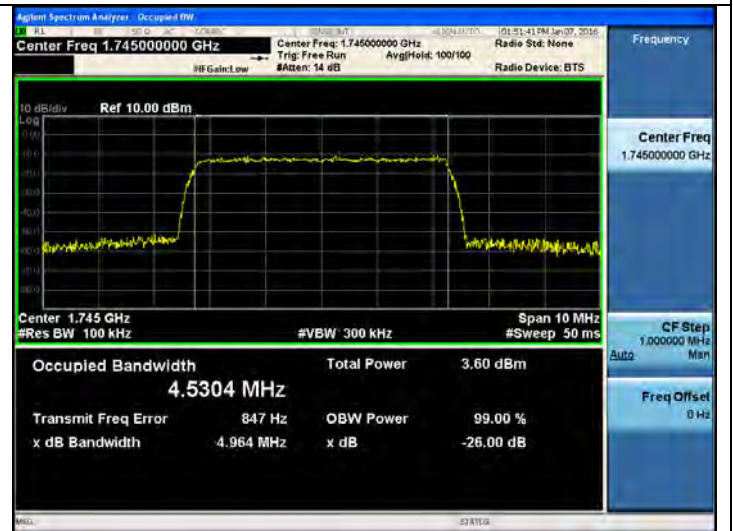
[AWS2100 AGC threshold Uplink Output LTE 5MHz High]



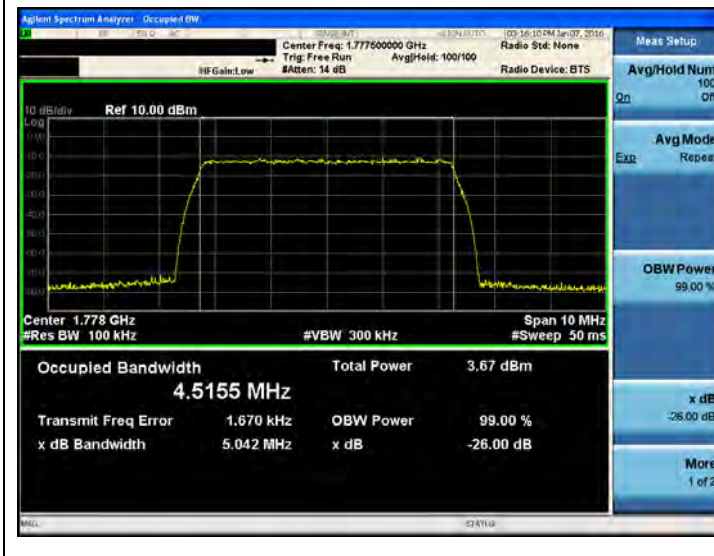
[AWS2100 +3dBm above the AGC threshold Uplink Output
LTE 5MHz Low]



[AWS2100 +3dBm above the AGC threshold Uplink Output
LTE 5MHz Mid]



[AWS2100 +3dBm above the AGC threshold Uplink Output
LTE 5MHz High]



AWS 2100_LTE 10MHz UL_Output

[AWS2100 AGC threshold Uplink Output LTE 10MHz Low]



[AWS2100 AGC threshold Uplink Output LTE 10MHz Mid]

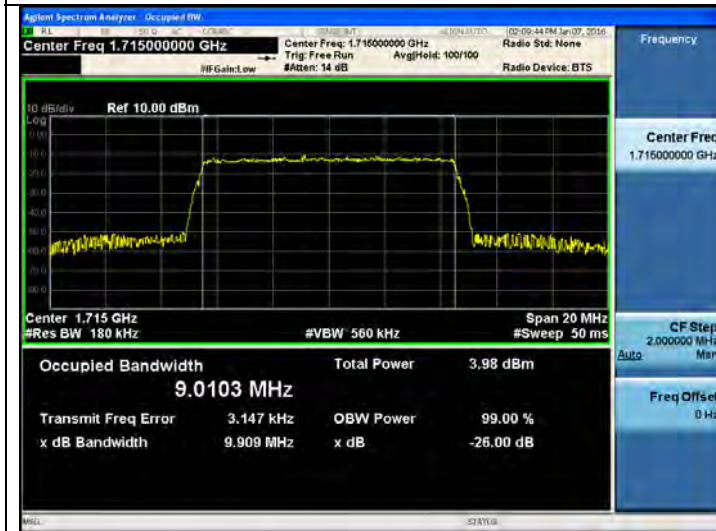


[AWS2100 AGC threshold Uplink Output LTE 10MHz High]



[AWS2100 +3dBm above the AGC threshold Uplink Output

LTE 10MHz Low]



[AWS2100 +3dBm above the AGC threshold Uplink Output

LTE 10MHz Mid]



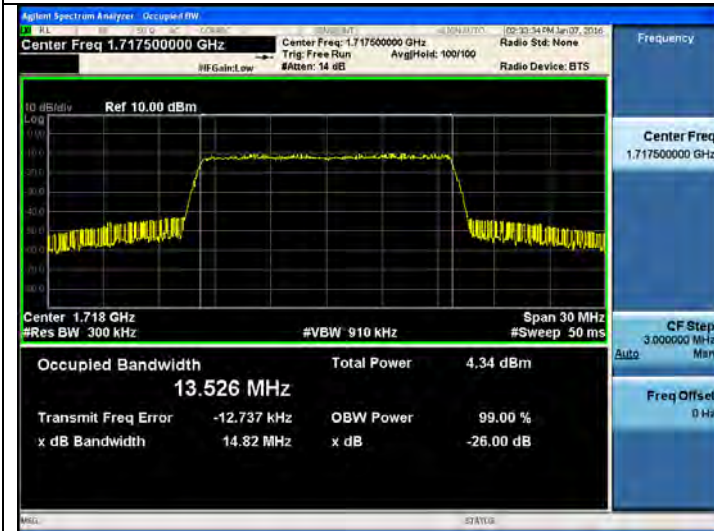
[AWS2100 +3dBm above the AGC threshold Uplink Output

LTE 10MHz High]

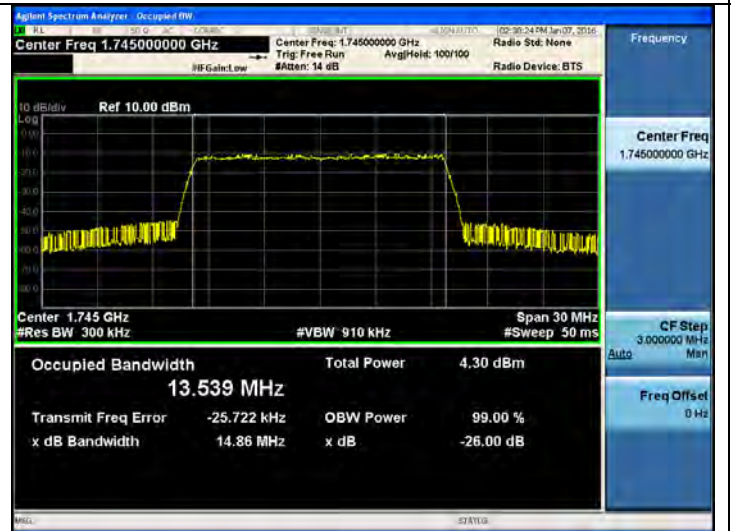


AWS 2100_LTE 15 MHz UL_Output

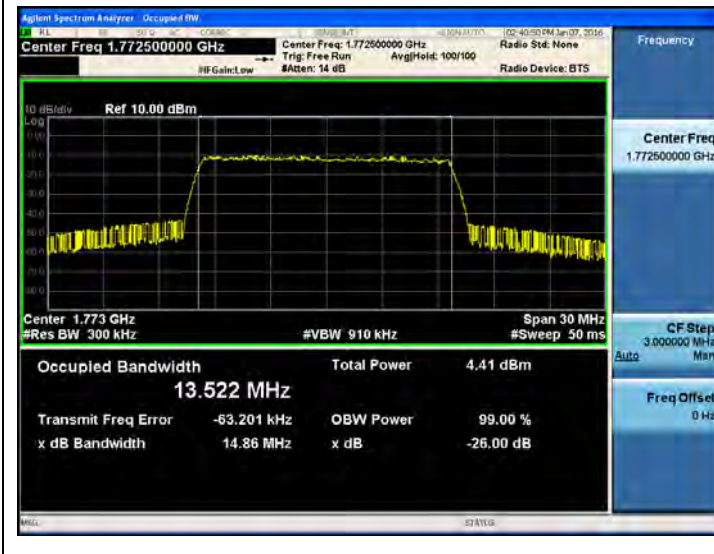
[AWS2100 AGC threshold Uplink Output LTE 15MHz Low]



[AWS2100 AGC threshold Uplink Output LTE 15MHz Mid]

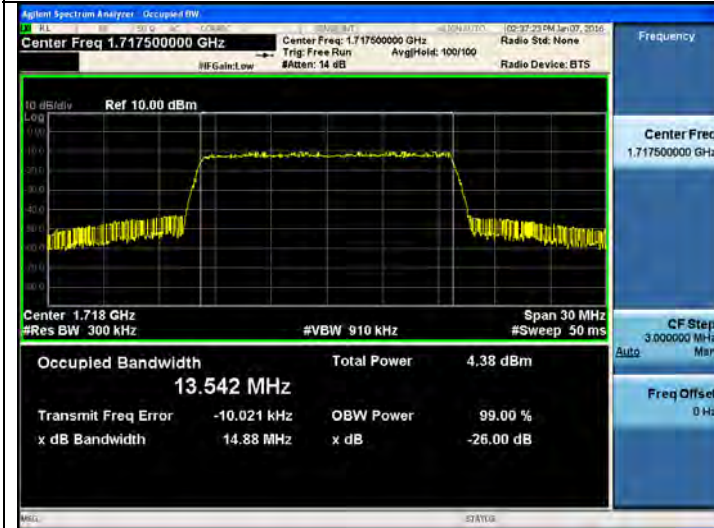


[AWS2100 AGC threshold Uplink Output LTE 15MHz High]



[AWS2100 +3dBm above the AGC threshold Uplink Output

LTE 15MHz Low]



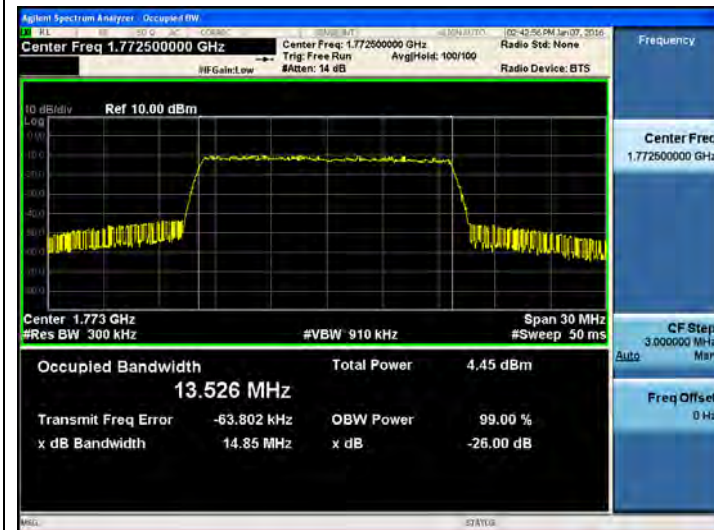
[AWS2100 +3dBm above the AGC threshold Uplink Output

LTE 15MHz Mid]



[AWS2100 +3dBm above the AGC threshold Uplink Output

LTE 15MHz High]

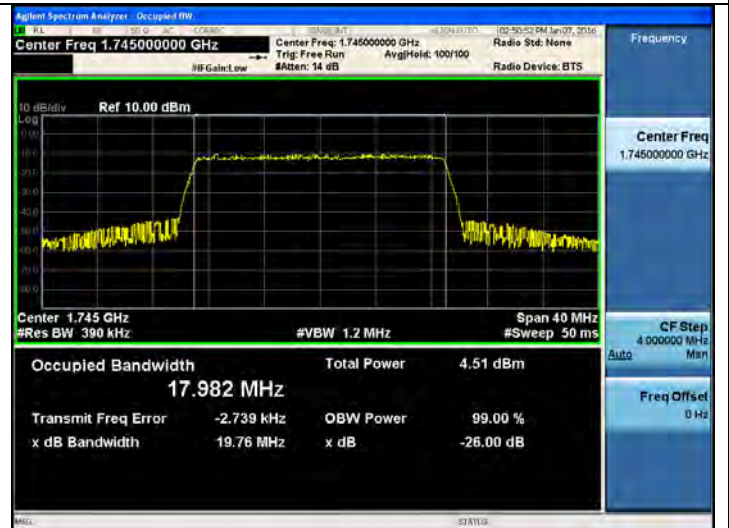


AWS 2100_LTE 20 MHz UL_Output

[AWS2100 AGC threshold Uplink Output LTE 20MHz Low]



[AWS2100 AGC threshold Uplink Output LTE 20MHz Mid]

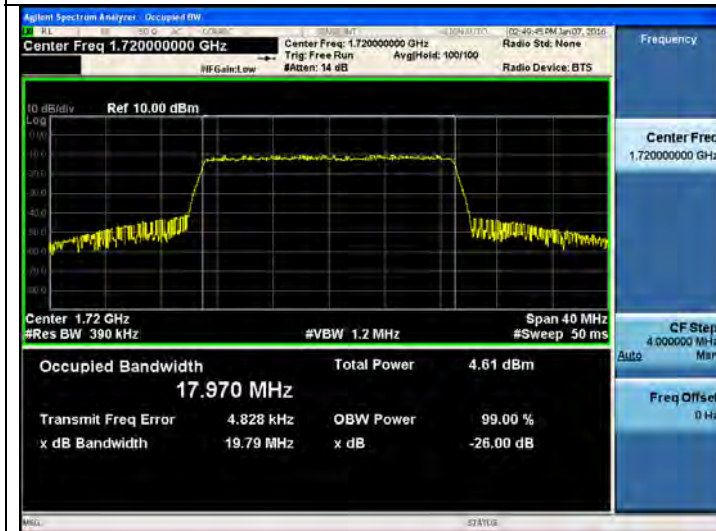


[AWS2100 AGC threshold Uplink Output LTE 20MHz High]



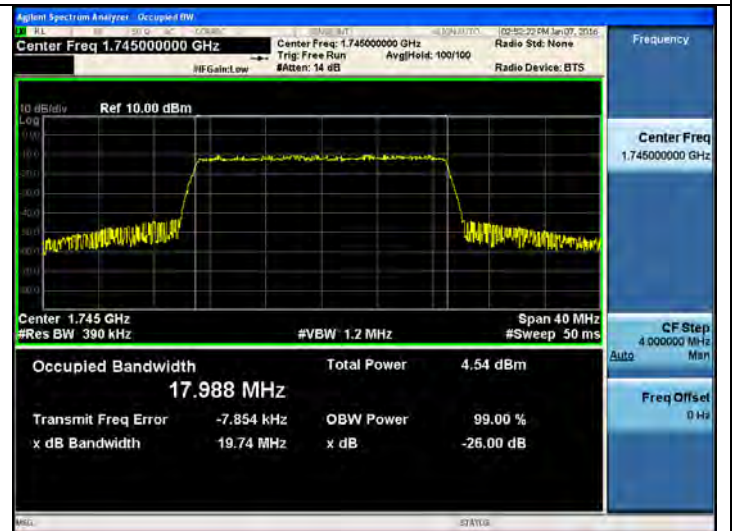
[AWS2100 +3dBm above the AGC threshold Uplink Output

LTE 20MHz Low]



[AWS2100 +3dBm above the AGC threshold Uplink Output

LTE 20MHz Mid]



[AWS2100 +3dBm above the AGC threshold Uplink Output

LTE 20MHz High]

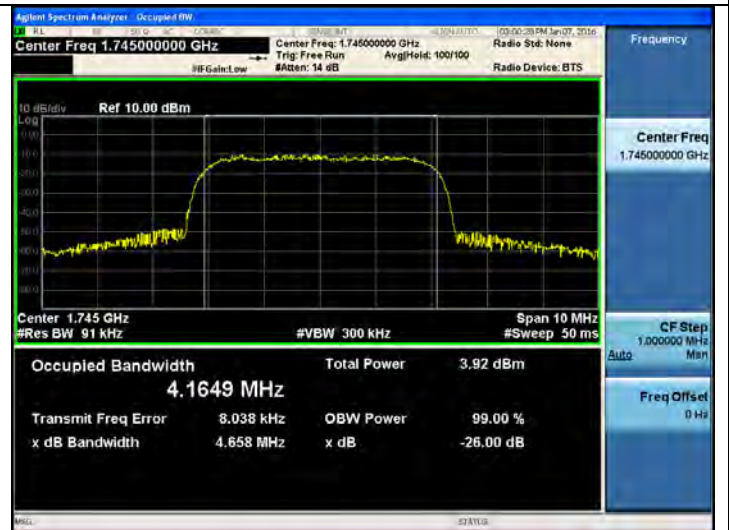


AWS 2100_UMTS UL_Output

[AWS2100 AGC threshold Uplink Output UMTS Low]



[AWS2100 AGC threshold Uplink Output UMTS Mid]



[AWS2100 AGC threshold Uplink Output UMTS High]



[AWS2100 +3dBm above the AGC threshold Uplink Output

UMTS Low]



[AWS2100 +3dBm above the AGC threshold Uplink Output

UMTS Mid]



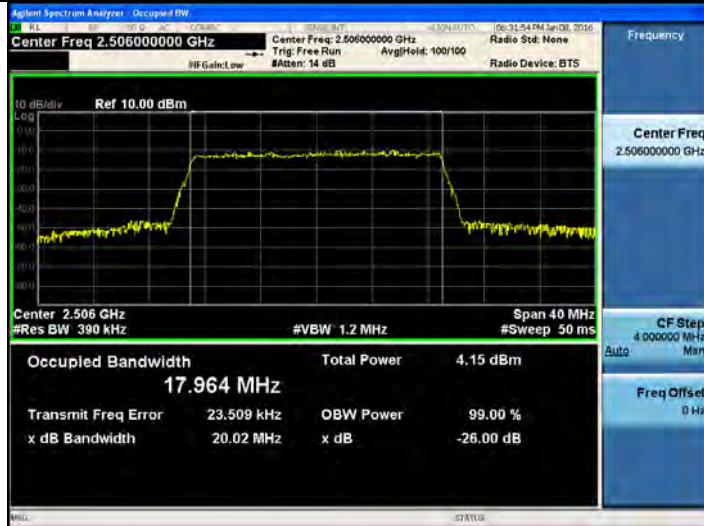
[AWS2100 +3dBm above the AGC threshold Uplink Output

UMTS High]

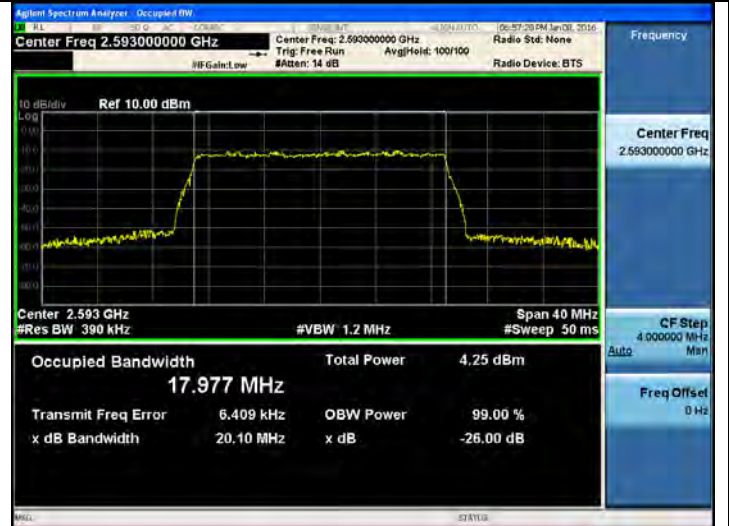


BRS_LTE 20MHz UL_Output

[BRS AGC threshold Uplink Output LTE10MHz Low]



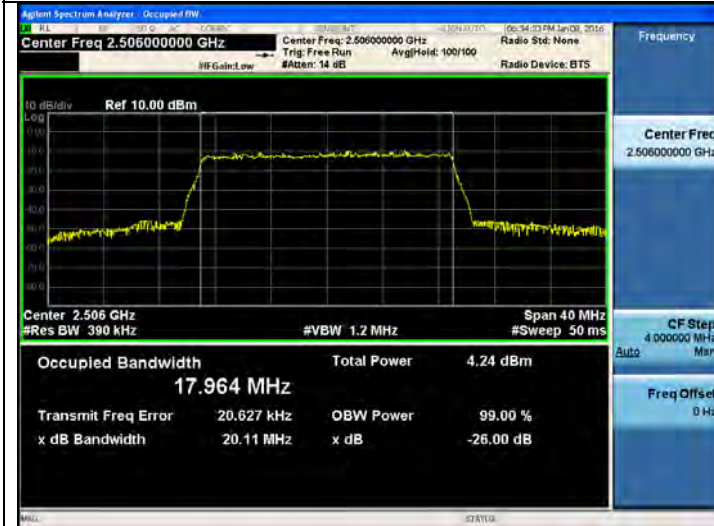
[BRS AGC threshold Uplink Output LTE10MHz Mid]



[BRS AGC threshold Uplink Output LTE10MHz High]



[BRS +3dBm above the AGC threshold Uplink Output
LTE 10MHz Low]



[BRS +3dBm above the AGC threshold Uplink Output
LTE 10MHz Mid]



[BRS +3dBm above the AGC threshold Uplink Output
LTE 10MHz High]

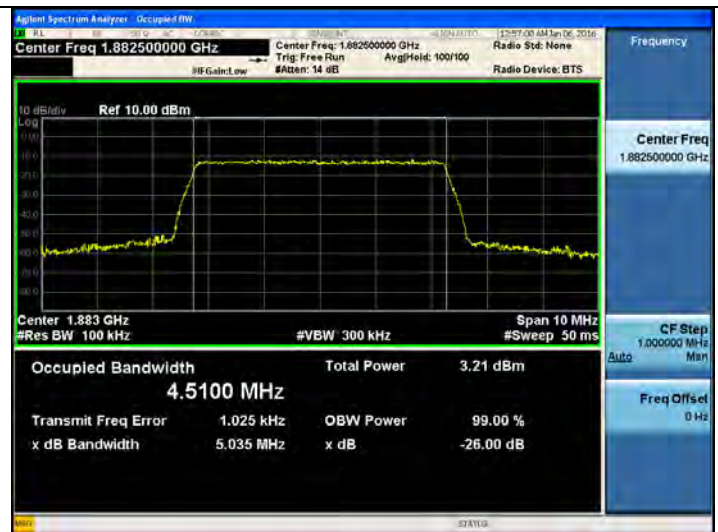


PCS 1900_LTE 5MHz UL_Output

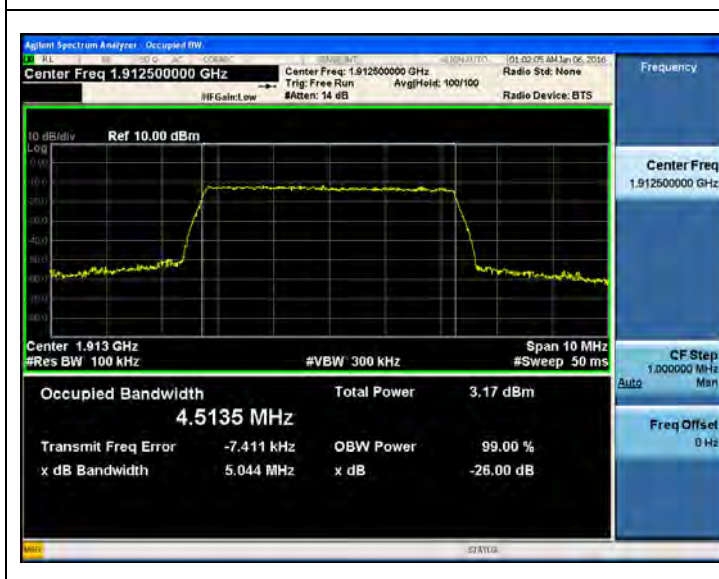
[PCS1900 AGC threshold Uplink Output LTE5MHz Low]



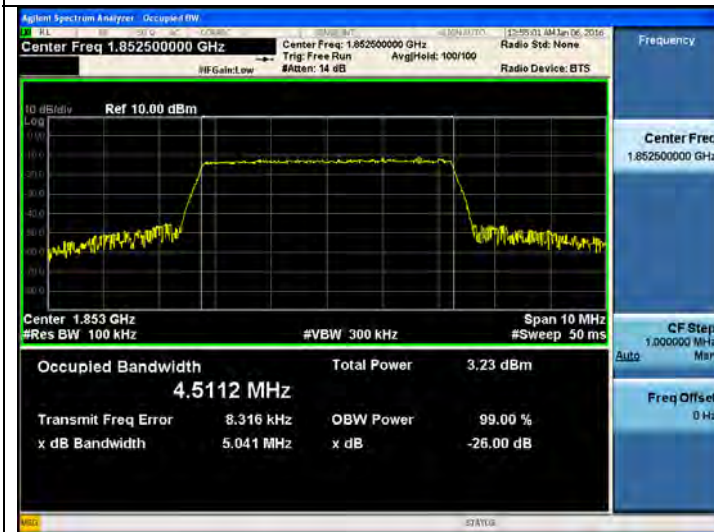
[PCS1900 AGC threshold Uplink Output LTE5MHz Mid]



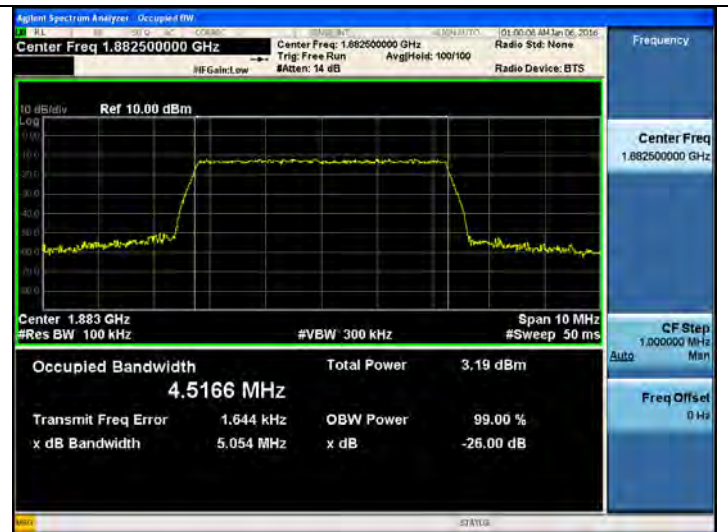
[PCS1900 AGC threshold Uplink Output LTE5MHz High]



[PCS1900 +3dBm above the AGC threshold Uplink Output
LTE 5MHz Low]



[PCS1900 +3dBm above the AGC threshold Uplink Output
LTE 5MHz Mid]



[PCS1900 +3dBm above the AGC threshold Uplink Output
LTE 5MHz High]

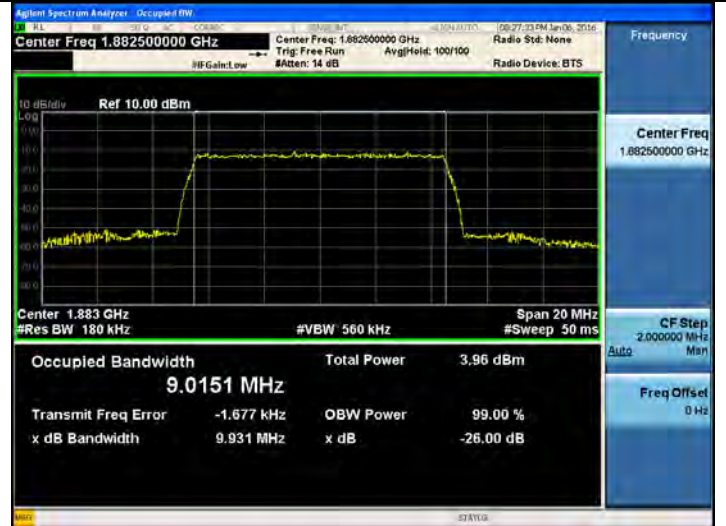


PCS 1900_LTE 10MHz UL_Output

[PCS1900 AGC threshold Uplink Output LTE10MHz Low]



[PCS1900 AGC threshold Uplink Output LTE10MHz Mid]

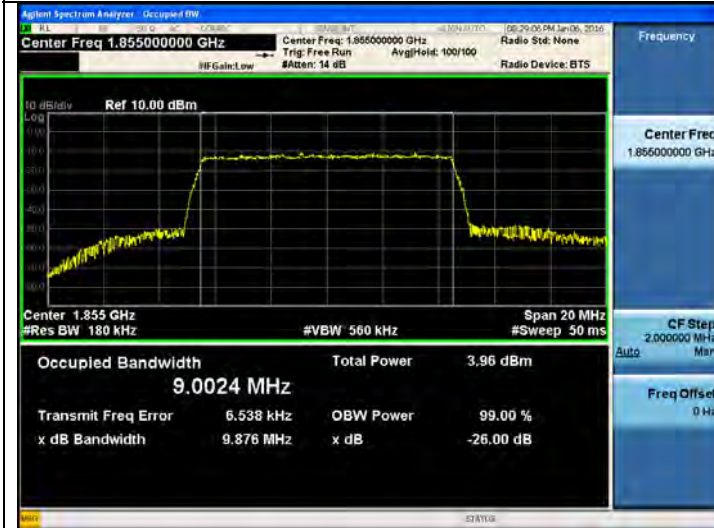


[PCS1900 AGC threshold Uplink Output LTE10MHz High]



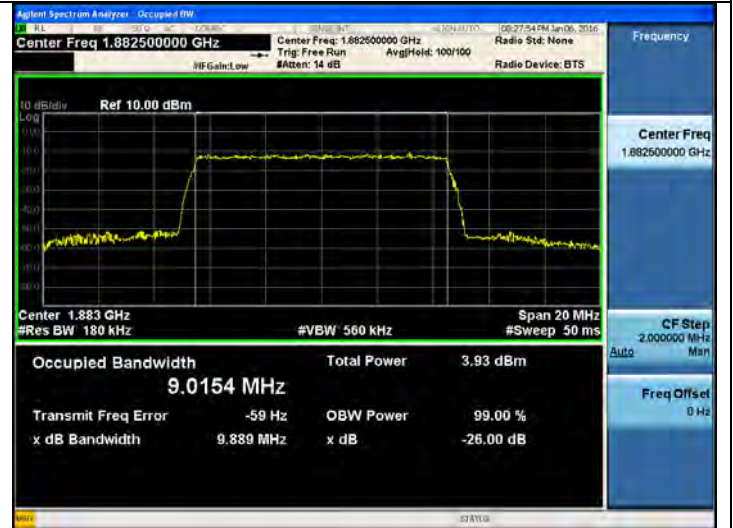
[PCS1900 +3dBm above the AGC threshold Uplink Output

LTE 10MHz Low]



[PCS1900 +3dBm above the AGC threshold Uplink Output

LTE 10MHz Mid]



[PCS1900 +3dBm above the AGC threshold Uplink Output

LTE 10MHz High]

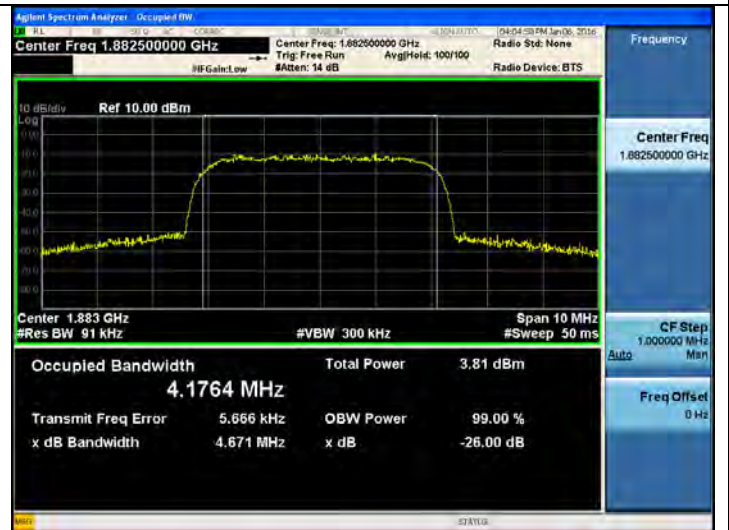


PCS 1900_UMTS UL_Output

[PCS1900 AGC threshold Uplink Output UMTS Low]



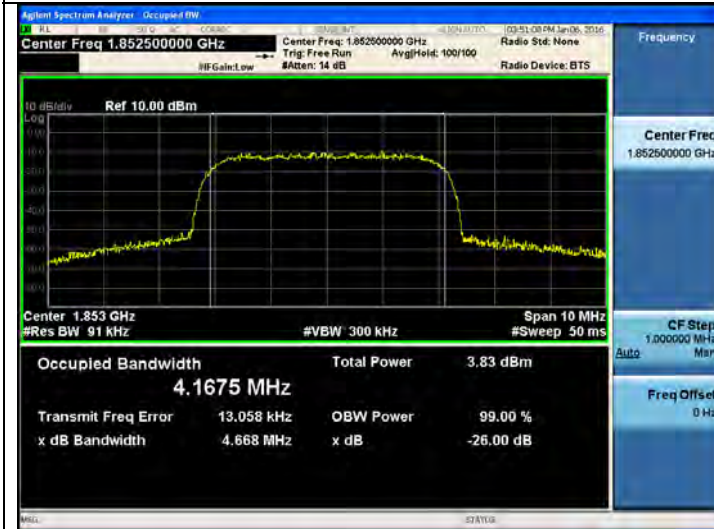
[PCS1900 AGC threshold Uplink Output UMTS Mid]



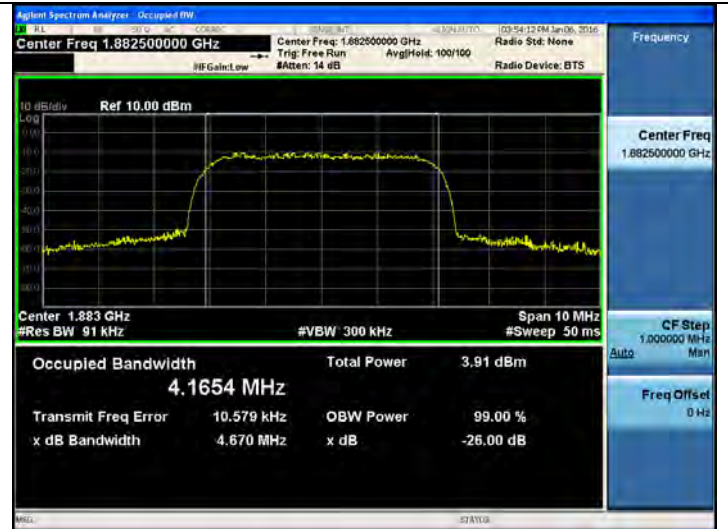
[PCS1900 AGC threshold Uplink Output UMTS High]



[PCS1900 +3dBm above the AGC threshold Uplink Output
UMTS Low]



[PCS1900 +3dBm above the AGC threshold Uplink Output
UMTS Mid]



[PCS1900 +3dBm above the AGC threshold Uplink Output
UMTS High]

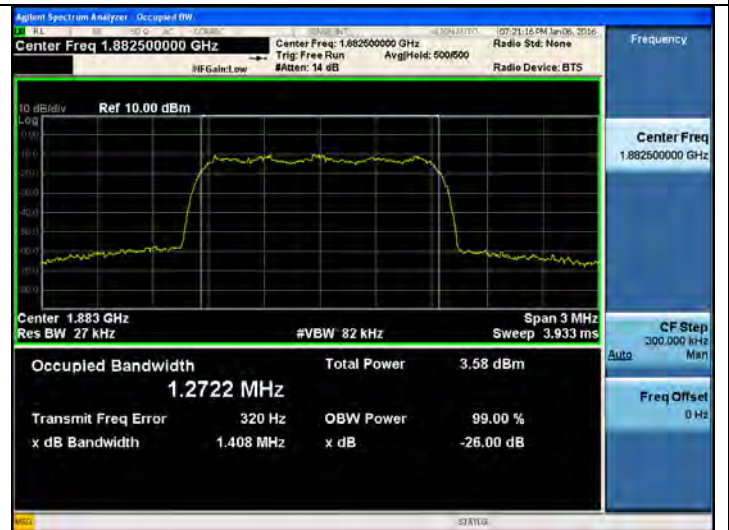


PCS 1900_CDMA UL_Output

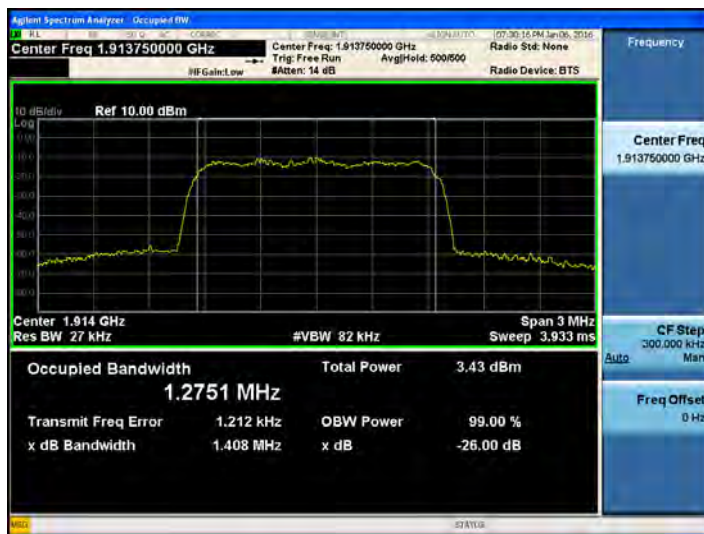
[PCS1900 AGC threshold Uplink Output CDMA Low]



[PCS1900 AGC threshold Uplink Output CDMA Mid]



[PCS1900 AGC threshold Uplink Output CDMA High]



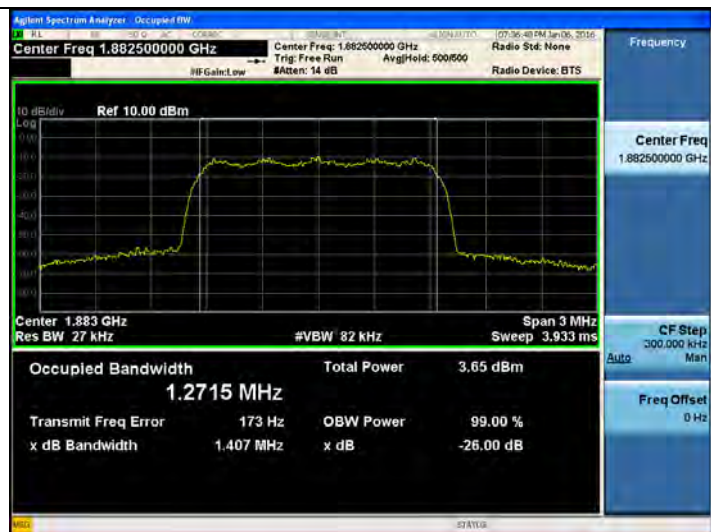
[PCS1900 +3dBm above the AGC threshold Uplink Output

CDMA Low]



[PCS1900 +3dBm above the AGC threshold Uplink Output

CDMA Mid]



[PCS1900 +3dBm above the AGC threshold Uplink Output

CDMA High]



PCS 1900_GSM UL_Output

[PCS1900 AGC threshold Uplink Output GSM Low]



[PCS1900 AGC threshold Uplink Output GSM Mid]



[PCS1900 AGC threshold Uplink Output GSM High]



[PCS1900 +3dBm above the AGC threshold Uplink Output
GSM Low]



[PCS1900 +3dBm above the AGC threshold Uplink Output
GSM Mid]



[PCS1900 +3dBm above the AGC threshold Uplink Output
GSM High]



WCS_LTE 10MHz UL_Output

[WCS AGC threshold Uplink Output LTE 10MHz Mid]



[WCS +3dBm above the AGC threshold Uplink Output
LTE 10MHzMid]

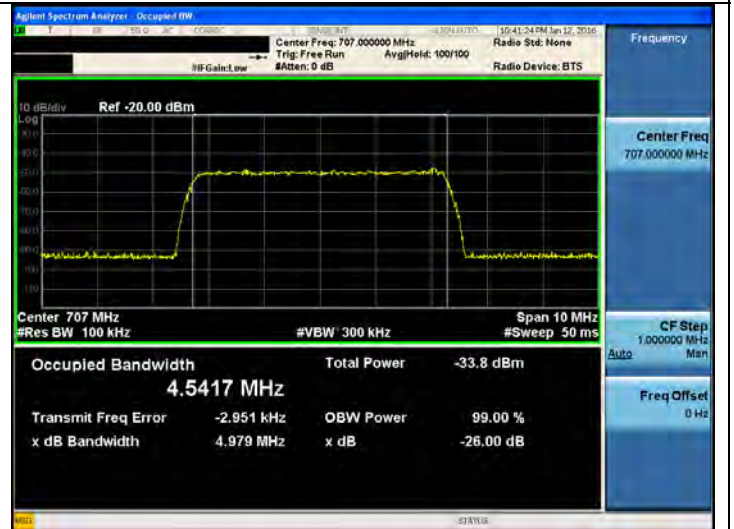


700 MHz Band_LTE 5MHz UL_Input

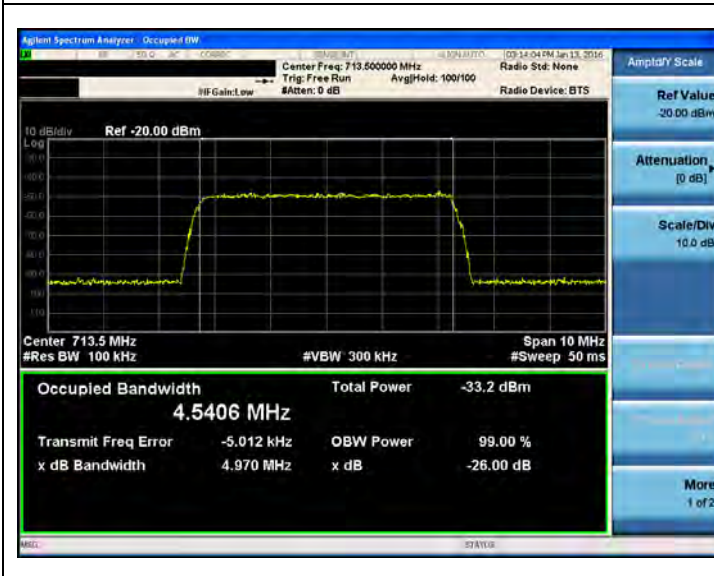
[700 Band AGC threshold Uplink Input LTE 5 MHz Low]



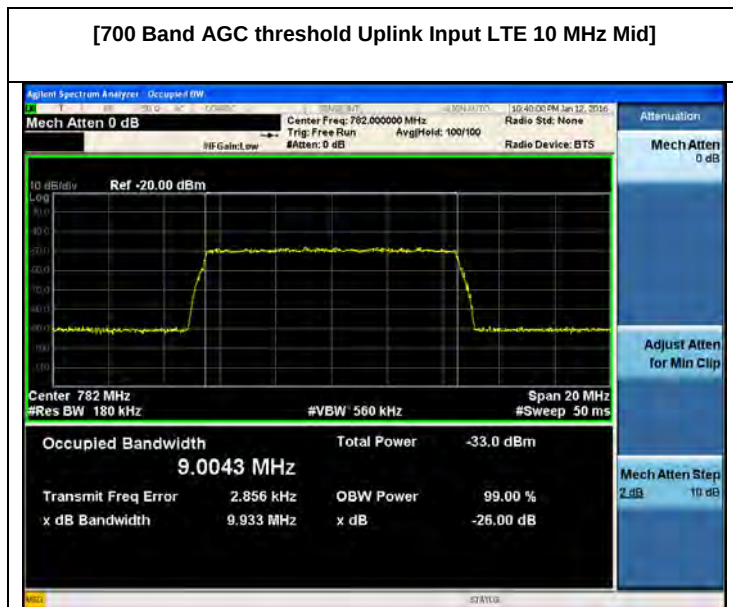
[700 Band AGC threshold Uplink Input LTE 5 MHz Mid]



[700 Band AGC threshold Uplink Input LTE 5 MHz High]



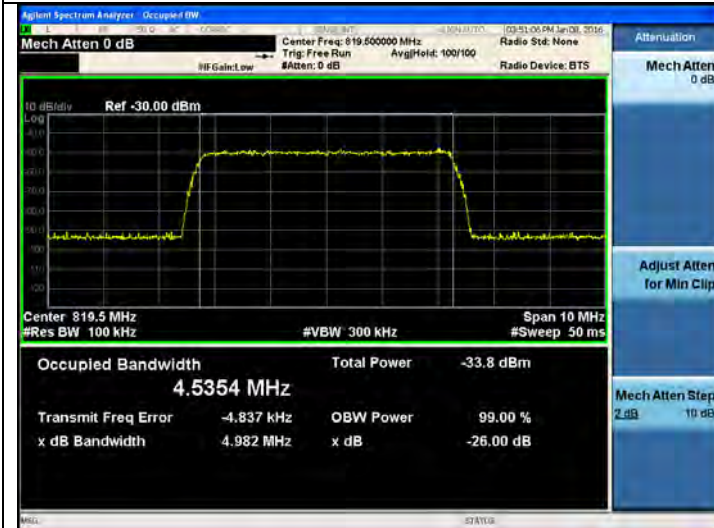
700 MHz Band_LTE 10MHz UL_Input



SMR 800,850 Cellular Band_LTE 5 MHz UL_Input

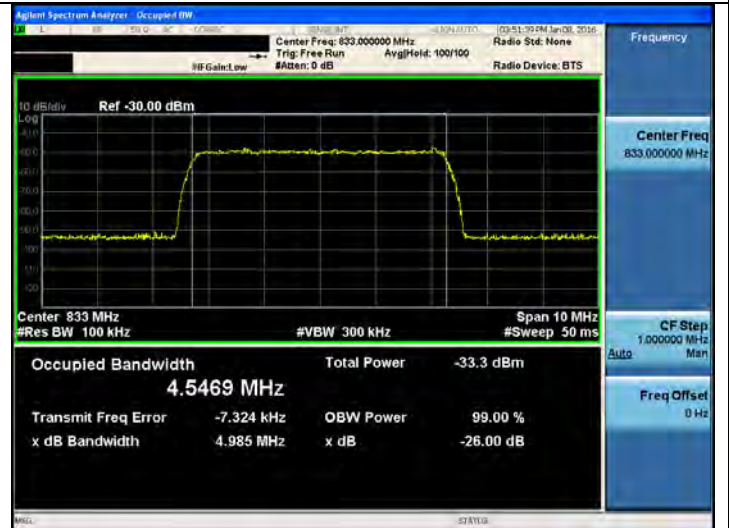
[SMR 800,850 Cellular Band AGC threshold Uplink Input

LTE 5 MHz Low]



[SMR 800,850 Cellular Band AGC threshold Uplink Input

LTE 5 MHz Mid]



[SMR 800,850 Cellular Band AGC threshold Uplink Input

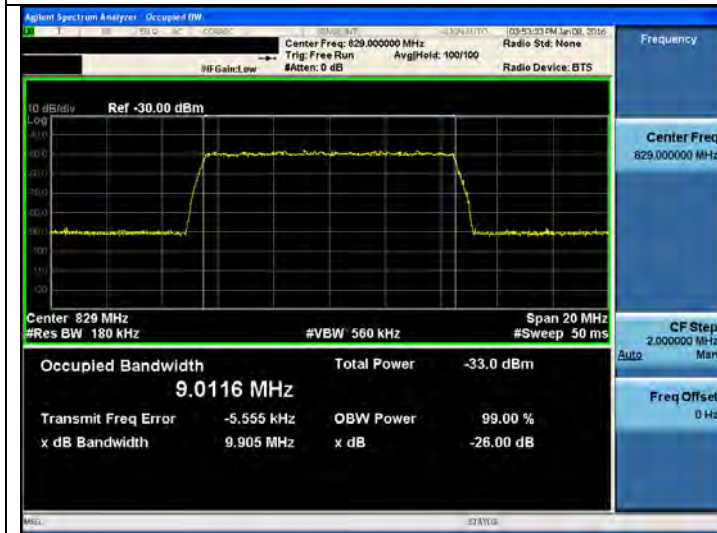
LTE 5 MHz High]



850 Cellular Band_LTE 10 MHz UL_Input

[850 Cellular Band AGC threshold Uplink Input

LTE 10 MHz Low]



[850 Cellular Band AGC threshold Uplink Input

LTE 10 MHz High]



850 Cellular Band_UMTS UL_Input

[850 Cellular Band AGC threshold Uplink Input

UMTS Low]



[850 Cellular Band AGC threshold Uplink Input

UMTS Mid]



[850 Cellular Band AGC threshold Uplink Input

UMTS High]



SMR 800,850 Cellular Band_CDMA UL_Input

[SMR 800,850 Cellular Band AGC threshold Uplink Input
CDMA Low]



[SMR 800,850 Cellular Band AGC threshold Uplink Input
CDMA Mid]



[SMR 800,850 Cellular Band AGC threshold Uplink Input
CDMA High]



850 Cellular Band_GSM UL_Input

[850 Cellular Band AGC threshold Uplink Input

GSM Low]



[850 Cellular Band AGC threshold Uplink Input

GSM Mid]



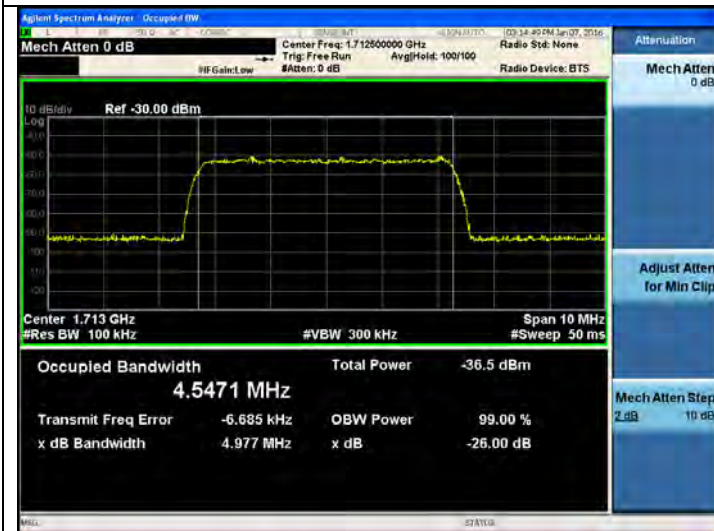
[850 Cellular Band AGC threshold Uplink Input

GSM High]



AWS 2100_LTE 5MHz UL_Input

[AWS2100 AGC threshold Uplink Input LTE 5MHz Low]



[AWS2100 AGC threshold Uplink Input LTE 5MHz Mid]

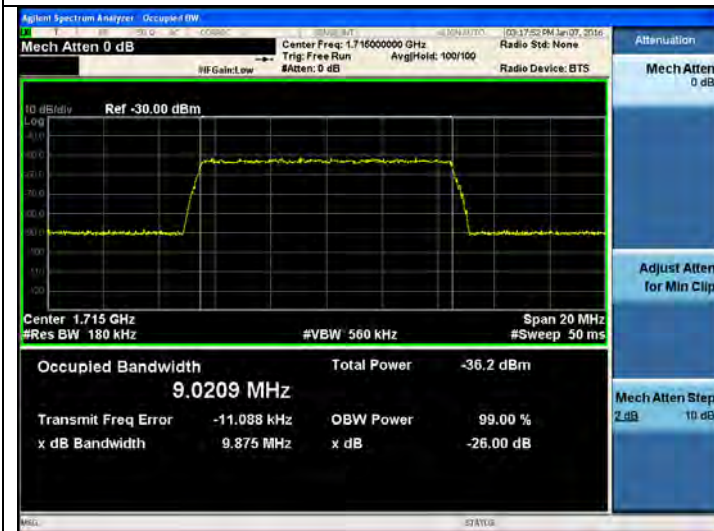


[AWS2100 AGC threshold Uplink Input LTE 5MHz High]



AWS 2100_LTE 10MHz UL_Input

[AWS2100 AGC threshold Uplink Input LTE 10MHz Low]



[AWS2100 AGC threshold Uplink Input LTE 10MHz Mid]

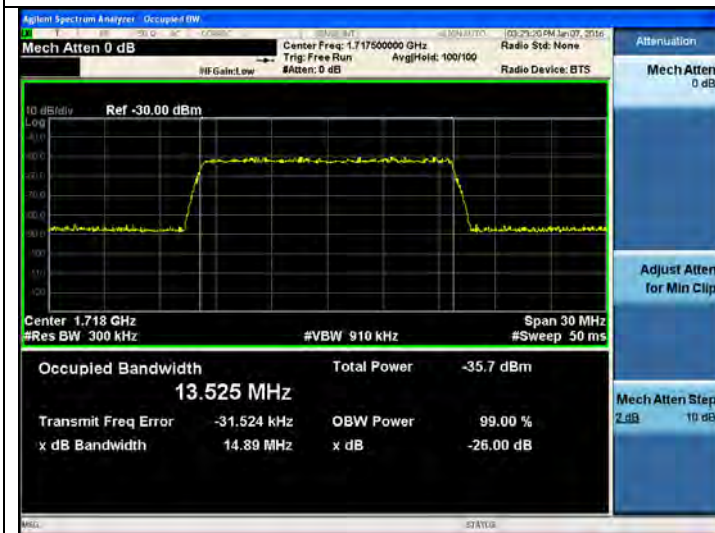


[AWS2100 AGC threshold Uplink Input LTE 10MHz High]



AWS 2100_LTE 15 MHz UL_Input

[AWS2100 AGC threshold Uplink Input LTE 15MHz Low]



[AWS2100 AGC threshold Uplink Input LTE 15MHz Mid]

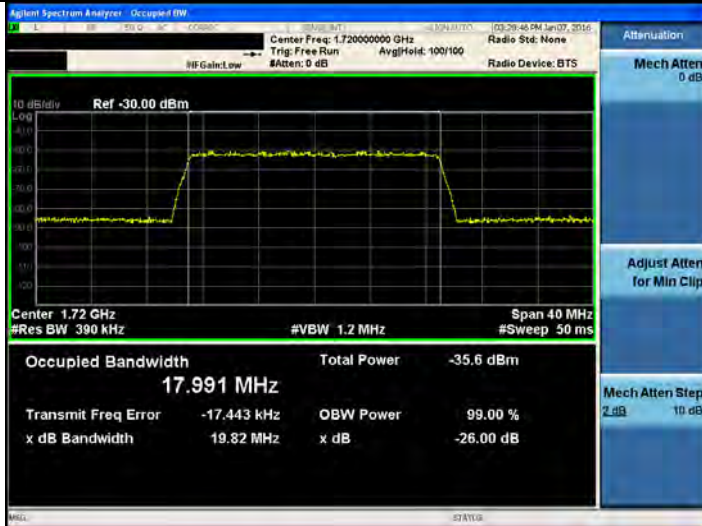


[AWS2100 AGC threshold Uplink Input LTE 15MHz High]



AWS 2100_LTE 20 MHz UL_Input

[AWS2100 AGC threshold Uplink Input LTE 20MHz Low]



[AWS2100 AGC threshold Uplink Input LTE 20MHz Mid]

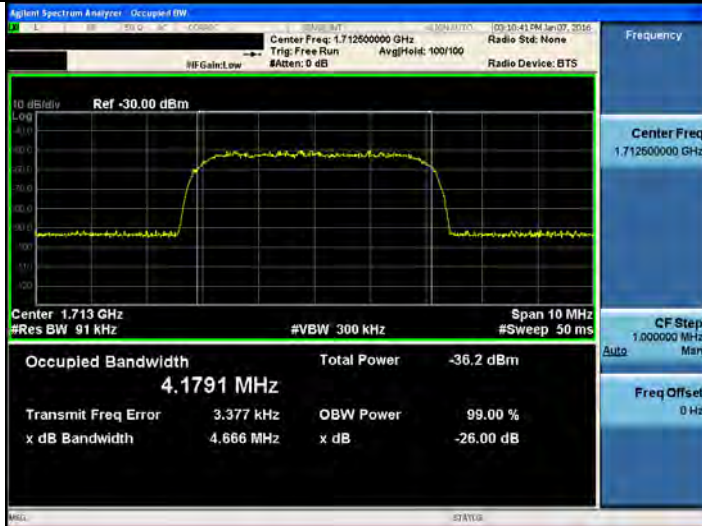


[AWS2100 AGC threshold Uplink Input LTE 20MHz High]

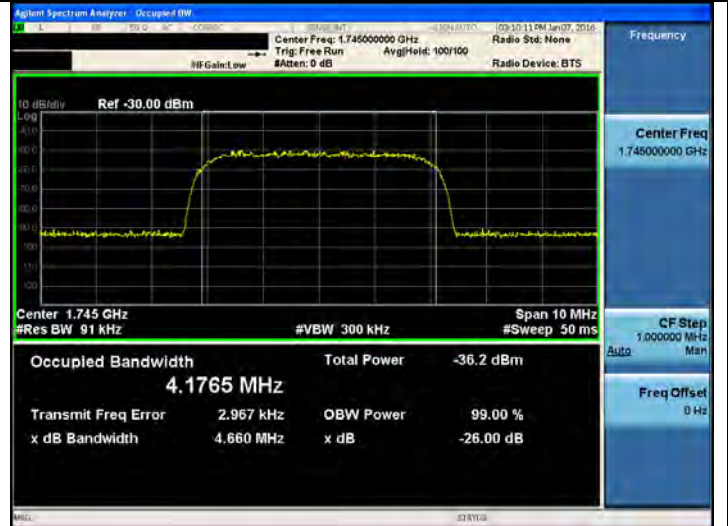


AWS 2100_UMTS UL_Input

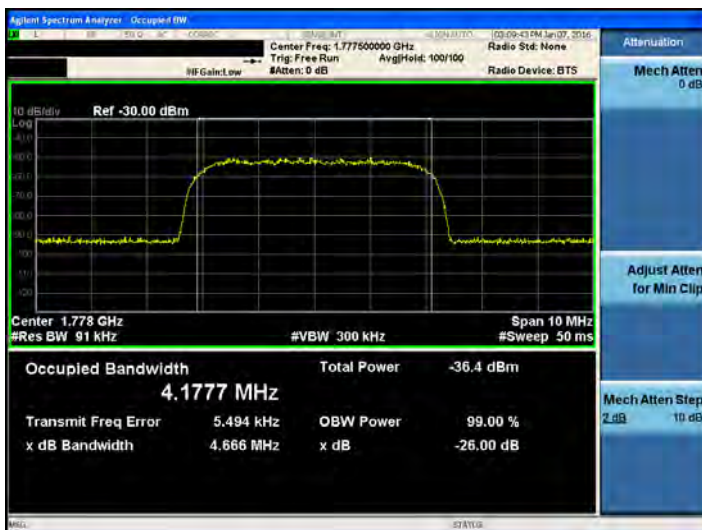
[AWS2100 AGC threshold Uplink Input UMTS Low]



[AWS2100 AGC threshold Uplink Input UMTS Mid]

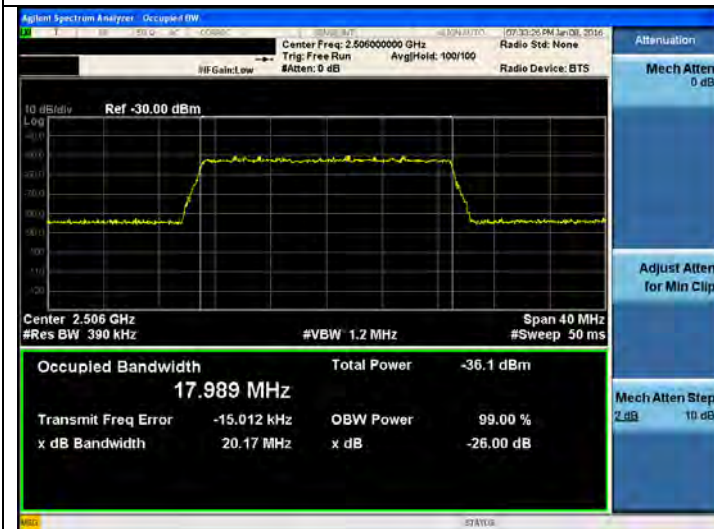


[AWS2100 AGC threshold Uplink Input UMTS High]

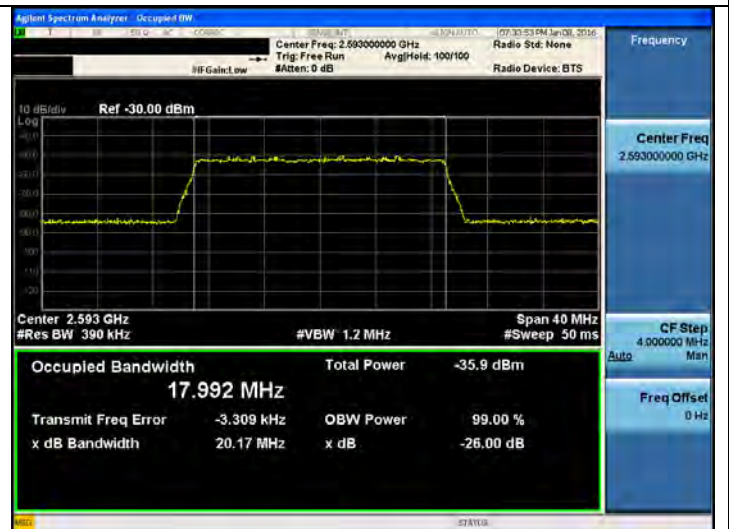


BRS_LTE 20MHz UL_Input

[BRS AGC threshold Uplink Input LTE10MHz Low]



[BRS AGC threshold Uplink Input LTE10MHz Mid]

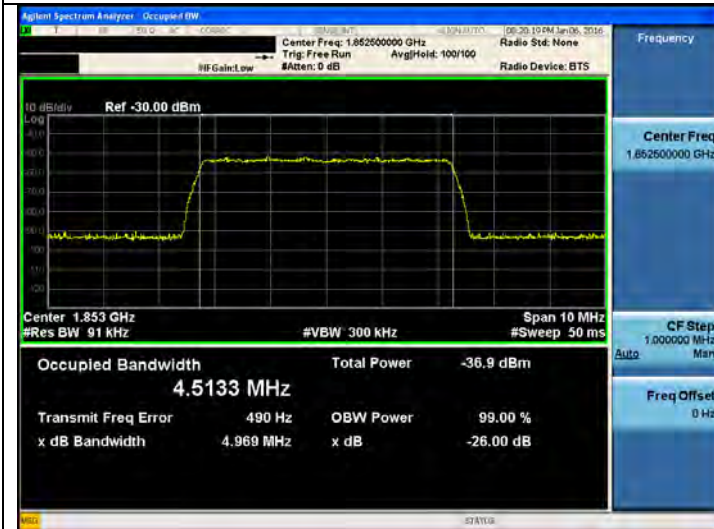


[BRS AGC threshold Uplink Input LTE10MHz High]

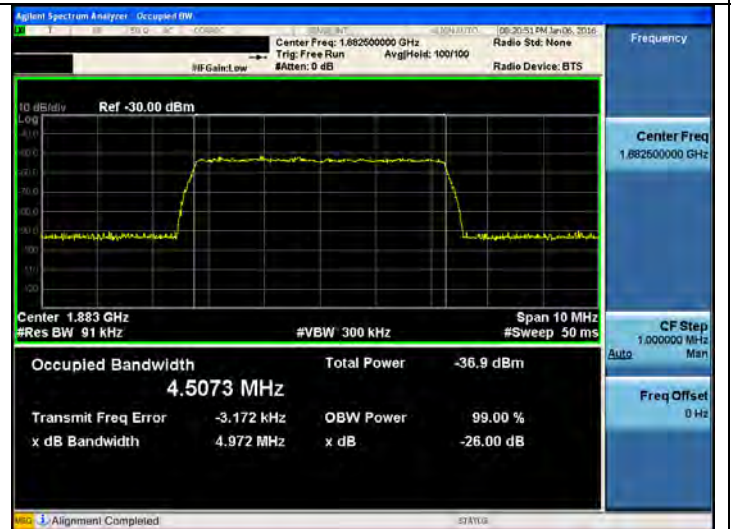


PCS 1900_LTE 5MHz UL_Input

[PCS1900 AGC threshold Uplink Input LTE5MHz Low]



[PCS1900 AGC threshold Uplink Input LTE5MHz Mid]



[PCS1900 AGC threshold Uplink Input LTE5MHz High]



PCS 1900_LTE 10MHz UL_Input

[PCS1900 AGC threshold Uplink Input LTE10MHz Low]



[PCS1900 AGC threshold Uplink Output Input LTE10MHz Mid]



[PCS1900 AGC threshold Uplink Input LTE10MHz High]

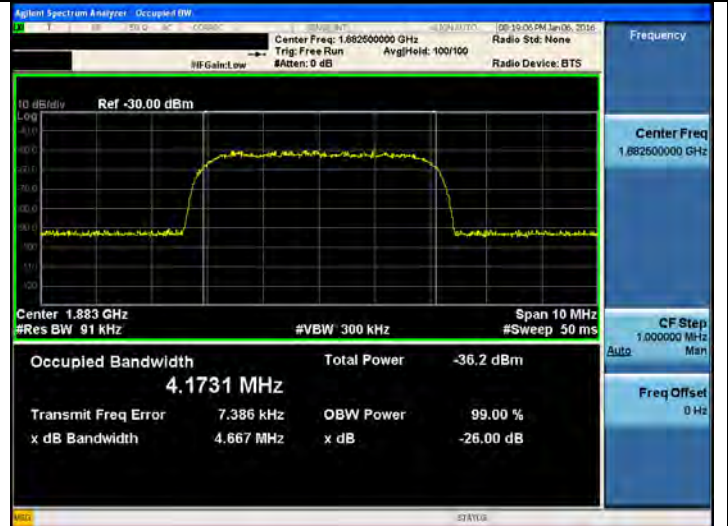


PCS 1900_UMTS UL_Input

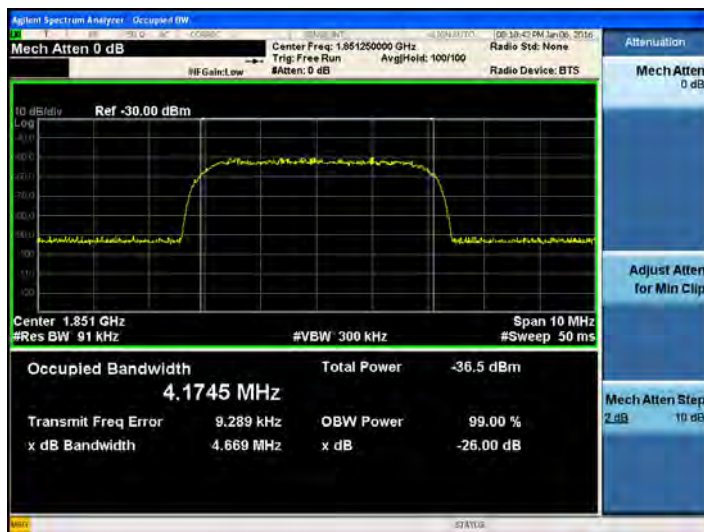
[PCS1900 AGC threshold Uplink Input UMTS Low]



[PCS1900 AGC threshold Uplink Input UMTS Mid]

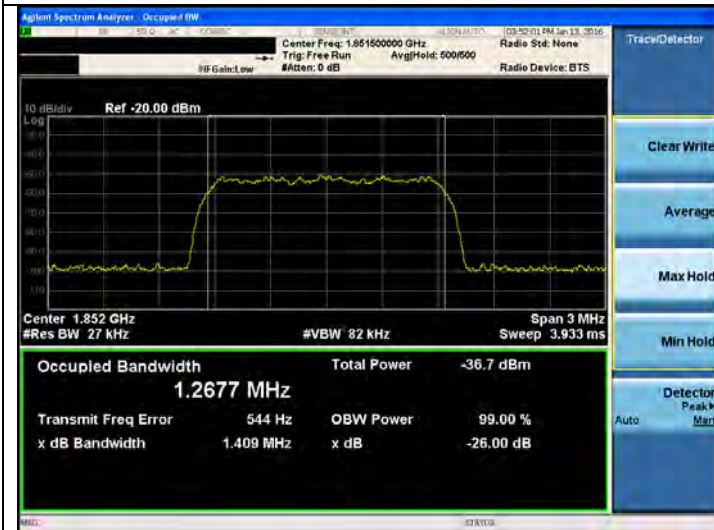


[PCS1900 AGC threshold Uplink Input UMTS High]

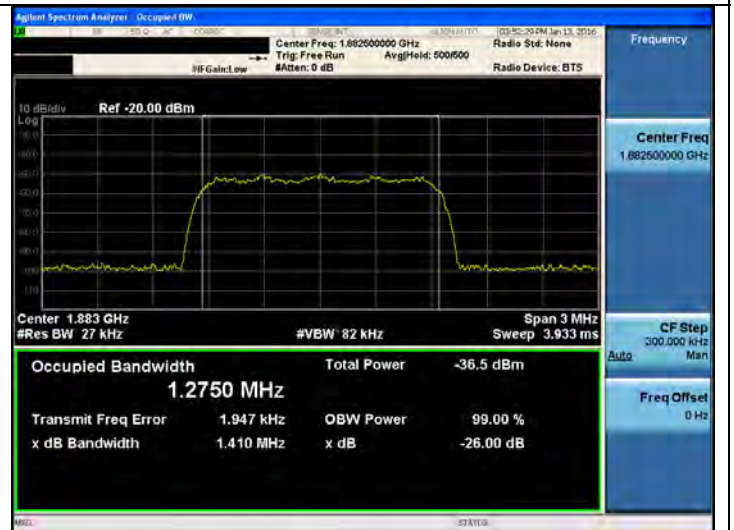


PCS 1900_CDMA UL_Input

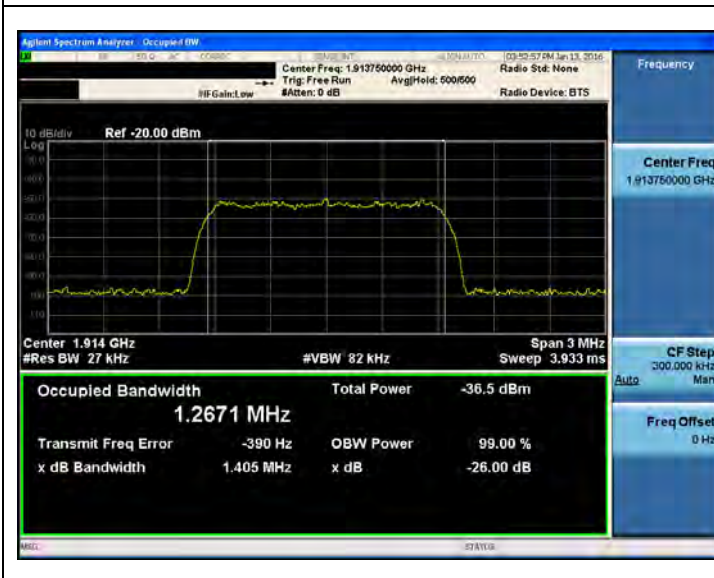
[PCS1900 AGC threshold Uplink Input CDMA Low]



[PCS1900 AGC threshold Uplink Input CDMA Mid]



[PCS1900 AGC threshold Uplink Input CDMA High]



PCS 1900_GSM UL_Input

[PCS1900 AGC threshold Uplink Input GSM Low]



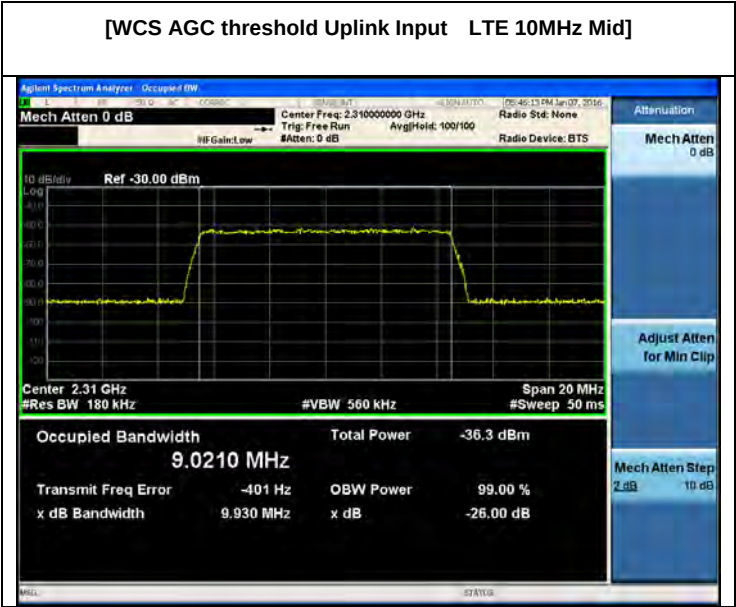
[PCS1900 AGC threshold Uplink Input GSM Mid]



[PCS1900 AGC threshold Uplink Input GSM High]



WCS_LTE 10MHz UL_Input



8. OUT OF BAND REJECTION

FCC Rules

Test Requirement(s): KDB 935210 D03 v02r01

Out of Band Rejection – Test for rejection of out of band signals. Filter freq. response plots are acceptable.

Test Procedures: A modulated carrier generated by the signal generator carrier was connected to either the Downlink or Downlink RF port at a maximum level as determined by the spectrum analyzer was connected to either the Downlink or Downlink port depending on the circuitry being measured. Signal generator sweep from the frequency more lower than the operating frequency to the frequency more higher than it, find the product band filter characteristic

Test Results: The EUT complies with the requirements of this section.

Input Signal	Input Level (dBm)	Maximum Amp Gain
700 MHz	DL : -15 dBm UL : -42 dBm	DL : 42 dB UL : 37 dB
SMR800		
850 Cellular		
PCS 1900	DL : -15 dBm UL : -45 dBm	DL : 45 dB UL : 40 dB
AWS 2100		
WCS		
BRS		

IC Rules**Test Requirements: RSS-131 6.1**

The passband gain shall not exceed the nominal gain by more than 1.0 dB. The 20 dB bandwidth shall not exceed the nominal bandwidth that is stated by the manufacturer. Outside of the 20 dB bandwidth, the gain shall not exceed the gain at the 20 dB point.

Test Procedures: RSS-131 4.2

Adjust the internal gain control of the equipment under test to the nominal gain for which equipment certification is sought.

With the aid of a signal generator and spectrum analyzer, measure the 20 dB bandwidth of the amplifier (i.e. at the point where the gain has fallen by 20 dB). Measure the gain-versus-frequency response of the amplifier from the midband frequency f_0 of the passband up to at least $f_0 + 250\%$ of the 20 dB bandwidth.

Signal generator sweep from the frequency more lower than the low frequency -250% to the frequency more higher than high frequency +250%.

Test Results: The EUT complies with the requirements of this section.

Input Signal	Input Level (dBm)	Maximum Amp Gain
700 MHz	DL : -15 dBm UL : -42 dBm	DL : 42 dB UL : 37 dB
SMR800		
850 Cellular		
PCS 1900	DL : -15 dBm UL : -45 dBm	DL : 45 dB UL : 40 dB
AWS 2100		
WCS		
BRS		

700 MHz Band**[Downlink]**

20 dB point frequency (MHz)	Output power (dBm)	Gain (dB)
726.76~ 757.44	27.03	42.03

[Uplink]

20 dB point frequency (MHz)	Output power (dBm)	Gain (dB)
695.98 ~ 717.92	-4.97	37.97
775.07 ~ 788.51	-5.05	37.05

SMR 800 850 Cellular Band**[Downlink]**

20 dB point frequency (MHz)	Output power (dBm)	Gain (dB)
855.08 ~ 871.08	27.01	42.01
866.56 ~ 896.44	27.09	42.09

[Upnlink]

20 dB point frequency (MHz)	Output power (dBm)	Gain (dB)
807.86 ~ 825.64	-5.10	37.10
821.72 ~ 851.24	-4.92	37.08

AWS2100 Band**[Downlink]**

20 dB point frequency (MHz)	Output power (dBm)	Gain (dB)
2095.80~2196.40	30.28	45.28

[Upnlink]

20 dB point frequency (MHz)	Output power (dBm)	Gain (dB)
1695.24 ~ 1791.48	-5.04	39.96

BRS Band**[Downlink]**

20 dB point frequency (MHz)	Output power (dBm)	Gain (dB)
2487.20~2698.30	30.04	45.04

[Upnlink]

20 dB point frequency (MHz)	Output power (dBm)	Gain (dB)
2486.90~2698.60	-5.00	40.00

PCS1900 Band**[Downlink]**

20 dB point frequency (MHz)	Output power (dBm)	Gain (dB)
1932.50~1992.50	30.17	45.17

[Upnlink]

20 dB point frequency (MHz)	Output power (dBm)	Gain (dB)
1845.34~1919.70	-5.03	39.97

WCS Band**[Downlink]**

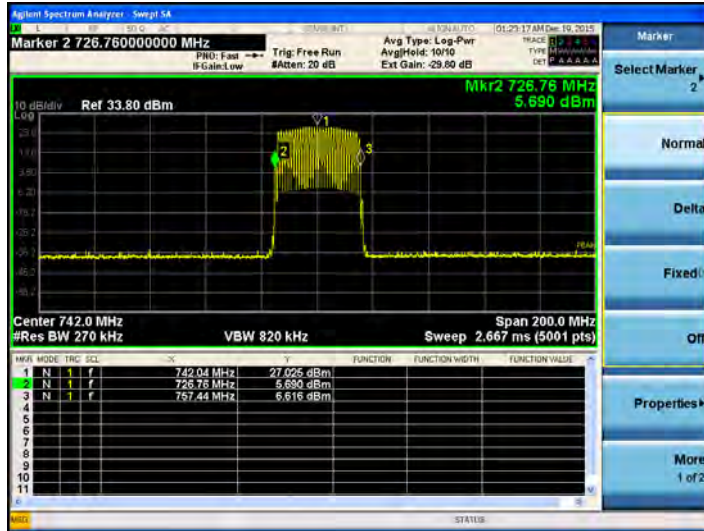
20 dB point frequency (MHz)	Output power (dBm)	Gain (dB)
2346.45~2361.92	30.16	45.16

[Upnlink]

20 dB point frequency (MHz)	Output power (dBm)	Gain (dB)
2298.62~2320.71	-4.92	40.08

Plots of Passband Gain and Bandwidth & Out of Band Rejection

[700M Band Downlink]



[700M Band Uplink 1]



[700M Band Uplink 2]



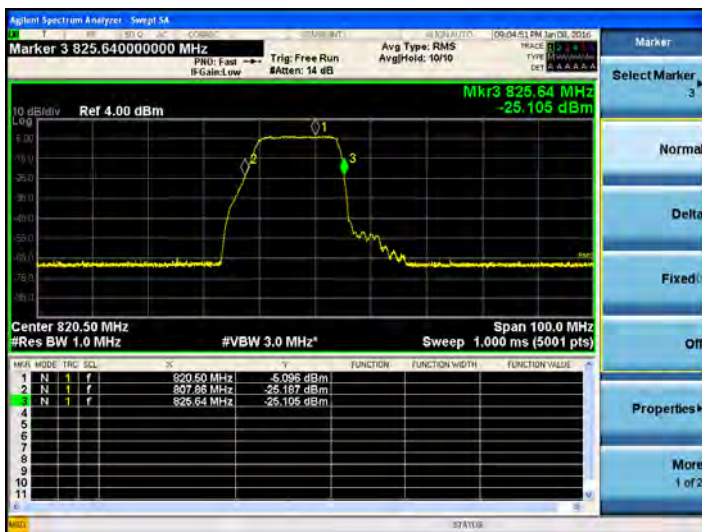
[SMR800 Band Downlink]



[850Cellular Band Downlink]



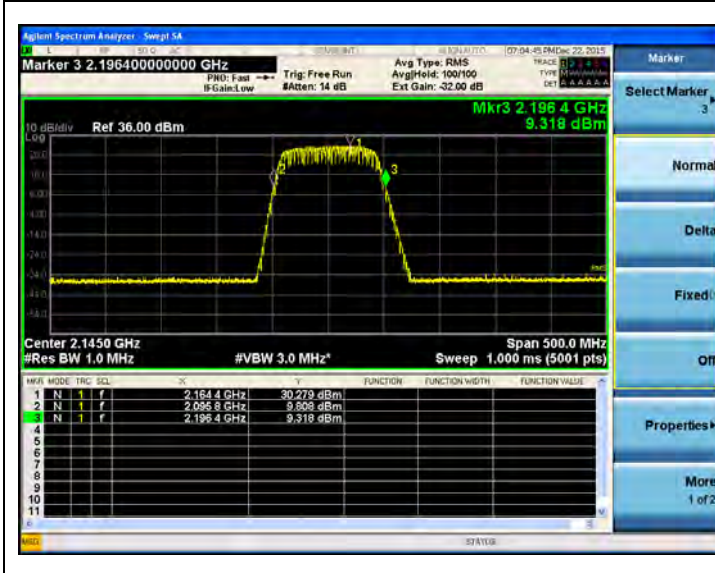
[SMR800 Band Uplink]



[850Cellular Band Uplink]



[AWS2100 Band Downlink]



[AWS2100 Band Uplink]

