



HCT. CO., LTD.

CERTIFICATION DIVISION

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CERTIFICATE OF COMPLIANCE (ERM EVALUATION)

Manufacture: Advanced RF Technologies, Inc.

3116 West VANOWEN STREET, BURBANK, CA 91505

Date of Issue:

Jun 02, 2014

Location:

HCT CO., LTD., 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea

Test Report No.: HCT-R-1402-F022-6

FCC ID:

S2O-AXM2100-9543I

APPLICANT:

Advanced RF Technologies, Inc.

EUT Type:

REPEATER

Model:

AXM2100-9543-ICS

Frequency Ranges:

DL : 2110 MHz ~ 2155 MHz

UL : 1710 MHz ~ 1755 MHz

Conducted Output Power:

DL : 20 W(43 dBm)

UL : 1 W(30 dBm)

FCC Rules Part(s):

CFR 47, Part 27

Engineering Statement:

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of Part 27 of the FCC Rules under normal use and maintenance.

Report prepared by
: Yong Hyun Lee
Test engineer of RF Team

Approved by
: Chang Seok Choi
Manager of RF Team

Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-R-1402-F022	February 21, 2014	- First Approval Report
HCT-R-1402-F022-1	March 04, 2014	- Revised the RF output power limit and description. (RF Power Output => Conducted RF Output Power)
HCT-R-1402-F022-2	March 07, 2014	- Revised the clause 2.2. (Add the worst case configuration) - Revised the clause 7. (Add the test for Out of Band Rejection)
HCT-R-1402-F022-3	March 25, 2014	- Add The technologies CDMA, WCDMA, LTE 5 MHz, LTE 15 MHz, LTE 20 MHz
HCT-R-1402-F022-4	April 02, 2014	- Revised the MPE uplink power
HCT-R-1402-F022-5	April 15, 2014	- Add the TEST FACILITY & Accreditation on page 5
HCT-R-1402-F022-6	Jun 02, 2014	-Revised the MPE uplink

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1. CLIENT INFORMATION

The EUT has been tested by request of

Company	Advanced RF Technologies, Inc. 3116 West VANOWEN STREET, BURBANK, CA 91505
Contact Point	Attention/ E-Mail: HK Song/ hk4464@adrfttech.com Tel./ H.P. : +82-31-637-4435/ +82-10-3191-4773

- **FCC ID:** S2O-AXM2100-9543I
- **APPLICANT:** Advanced RF Technologies, Inc
- **EUT Type:** REPEATER
- **Model:** AXM2100-9543-ICS
- **Frequency Ranges:** DL : 2110 MHz ~ 2155 MHz
UL : 1710 MHz ~ 1755 MHz
- **Conducted Output Power:** DL : 20 W(43 dBm)
UL : 1 W(30 dBm)
- **Antenna Gain(s) :** 18 dBi
- **Date(s) of Tests:** 2014. 02. 08. ~ 2014. 02. 14, 2014. 03. 17. ~ 2014.03.21
- **FCC Rules Part(s):** CFR Title 47 Part 27 Sub Part C
- **Measurement standard(s):** ANSI/TIA-603-C-2004, KDB 971168 D01 v02r01
- **Place of Tests:** 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea. (IC Recognition No. : 5944A-3)

2. FACILITIES AND ACCREDITATIONS

2.1. FACILITIES

The SAC(Semi-Anechoic Chamber) and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea. The site is constructed in conformance with the requirements of ANSI C63.4. (Version :2003) and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated June 21, 2011 (Registration Number: 90661).

2.2. EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

3. TEST SUMMARY

3.1. STANDARDS

The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 27.

Description	Reference	Results
Conducted RF Output Power	§2.1046; §27.50	Compliant
Occupied Bandwidth	§2.1049	Compliant
Spurious Emissions at Antenna Terminals	§2.1051, §27.53	Compliant
Radiated Spurious Emissions	§2.1053, §27.53	Compliant
Frequency Stability	§2.1055, §27.54	Compliant

3.2. MODE OF OPERATION DURING THE TEST

The EUT was operated in a manner representative of the typical usage of the equipment.

During all testing, system components were manipulated within the confines of typical usage to maximize each emission.

The device does not supply antenna(s) with the system, so the dummy loads were connected to the RF output ports for radiated spurious emission testing.

QPSK was only selected and tested since it's the worst case configuration among all here modulations (QPSK, 16QAM, 64QAM).

4. STANDARDS ENVIRONMENTAL TEST CONDITIONS

Temperature :	+ 15 °C to + 35 °C
Relative humidity:	30 % to 60 %
Air pressure	860 mbar to 1 060 mbar

5.TEST EQUIPMENT

Manufacturer	Model / Equipment	Cal Interval	Calibration Due	Serial No.
Agilent	E4438C /Signal Generator	Annual	04/11/2014	MY42082646
Agilent	N5182A /Signal Generator	Annual	09/30/2014	MY50141649
Agilent	E4416A /Power Meter	Annual	10/16/2014	GB41291412
Agilent	E9327A/ Power Sensor	Annual	04/16/2014	MY4442009
NANGYEUL CO., LTD.	NY-THR18750/ Temperature and Humidity Chamber	Annual	10/30/2014	NY-2009012201A
Agilent	N9020A /Signal Analyzer	Annual	04/25/2014	US46220219
WEINSCHTEL	67-30-33 / Fixed Attenuator	Annual	11/05/2014	BU5347
MCE / Weinschel	2-10 / Fixed Attenuator	Annual	10/28/2014	BR0554
HD	MA240/ Antenna Position Tower	N/A	N/A	556
EMCO	1050/ Turn Table	N/A	N/A	114
HD GmbH	HD 100/ Controller	N/A	N/A	13
HD GmbH	KMS 560/ SlideBar	N/A	N/A	12
MITEQ	AMF-6D-001180-35-20P/AMP	Annual	09/12/2014	1081666
Schwarzbeck	BBHA 9120D/ Horn Antenna	Biennial	07/05/2015	1151
Schwarzbeck	BBHA 9120D/ Horn Antenna	Biennial	07/05/2015	1151
Schwarzbeck	VULB 9168/TRILOG Antenna	Biennial	07/02/2014	9168-255

6. RF OUTPUT POWER

Test Requirements:

§ 2.1046 Measurements required: RF power output:

§ 2.1046 (a) For transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in § 2.1033(c)(8). The electrical characteristics of the radio frequency load attached to the output terminals when this test is made shall be stated.

§ 2.1046 (b) For single sideband, independent sideband, and single channel, controlled carrier radiotelephone transmitters, the procedure specified in paragraph (a) of this section shall be employed and, in addition, the transmitter shall be modulated during the test as specified and as applicable in § 2.1046 (b) (1-5). In all tests, the input level of the modulating signal shall be such as to develop rated peak envelope power or carrier power, as appropriate, for the transmitter.

§ 2.1046 (c) For measurements conducted pursuant to paragraphs (a) and (b) of this section, all calculations and methods used by the applicant for determining carrier power or peak envelope power, as appropriate, on the basis of measured power in the radio frequency load attached to the transmitter output terminals shall be shown. Under the test conditions specified, no components of the emission spectrum shall exceed the limits specified in the applicable rule parts as necessary for meeting occupied bandwidth or emission limitations.

§ 27.50 Power and antenna height limits.

(d) The following power and antenna height requirements apply to stations transmitting in the 1710–1755 MHz and 2110–2155 MHz bands:

(1) The power of each fixed or base station transmitting in the 2110–2155 MHz band and located in any county with population density of 100 or fewer persons per square mile, based upon the most recently available population statistics from the Bureau of the Census

(2) The power of each fixed or base station transmitting in the 2110–2155 MHz band and situated in any geographic location other than that described in paragraph (d)(1) is limited to:

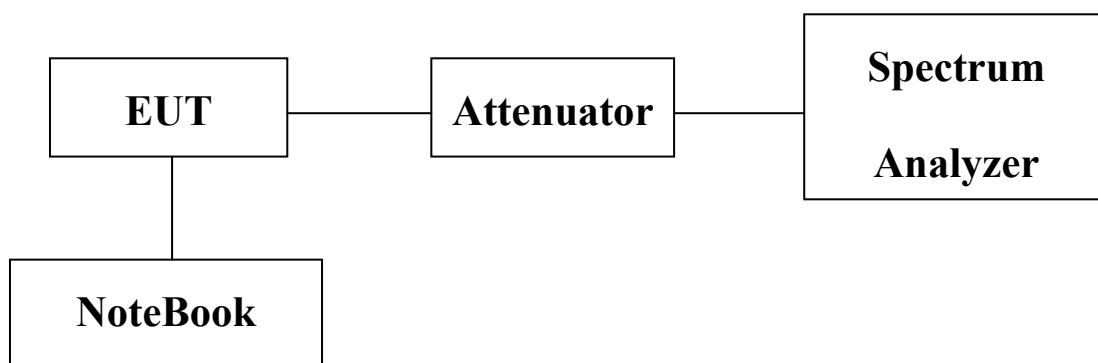
(A) an equivalent isotropically radiated power (EIRP) of 1640 watts when transmitting with an emission bandwidth of 1 MHz or less;

(B) an EIRP of 1640 watts/MHz when transmitting with an emission bandwidth greater than 1 MHz.

(4) Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP. Fixed stations operating in this band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in this band must employ a means for limiting power to the minimum necessary for successful communications.

Test Procedures:

As required by 47 CFR 2.1046, RF power output measurements were made at the RF output terminals using an attenuator and spectrum analyzer or power meter. This test was performed in all applicable modulations.



Block Diagram 1. RF Power Output Test Setup

Test Results:

Input Signal	Input Level (dBm)	Maximum Amp Gain
CDMA	DL : -52 dBm UL : -65 dBm	DL : 95 dB UL : 95 dB
WCDMA		
LTE		

[Downlink]

	Channel	Frequency (MHz)	Output Power	
			(dBm)	(W)
CDMA	Low	2111.25	43.04	20.156
	Middle	2132.50	42.98	19.863
	High	2153.75	43.05	20.189
WCDMA	Low	2112.50	43.07	20.299
	Middle	2132.50	43.05	20.183
	High	2152.50	42.98	19.855

[Downlink]

	Channel	Frequency (MHz)	Output Power	
			(dBm)	(W)
LTE 5 MHz	Low	2112.50	43.00	19.971
	Middle	2132.50	43.03	20.108
	High	2152.50	43.06	20.209
LTE 10 MHz	Low	2115.0	43.14	20.616
	Middle	2135.0	42.92	19.593
	High	2150.0	43.00	19.953
LTE 15 MHz	Low	2117.50	42.99	19.891
	Middle	2132.50	43.09	20.366
	High	2147.50	43.02	20.024
LTE 20 MHz	Low	2120.00	43.06	20.252
	Middle	2130.00	43.04	20.152
	High	2145.00	43.02	20.049

[Uplink]

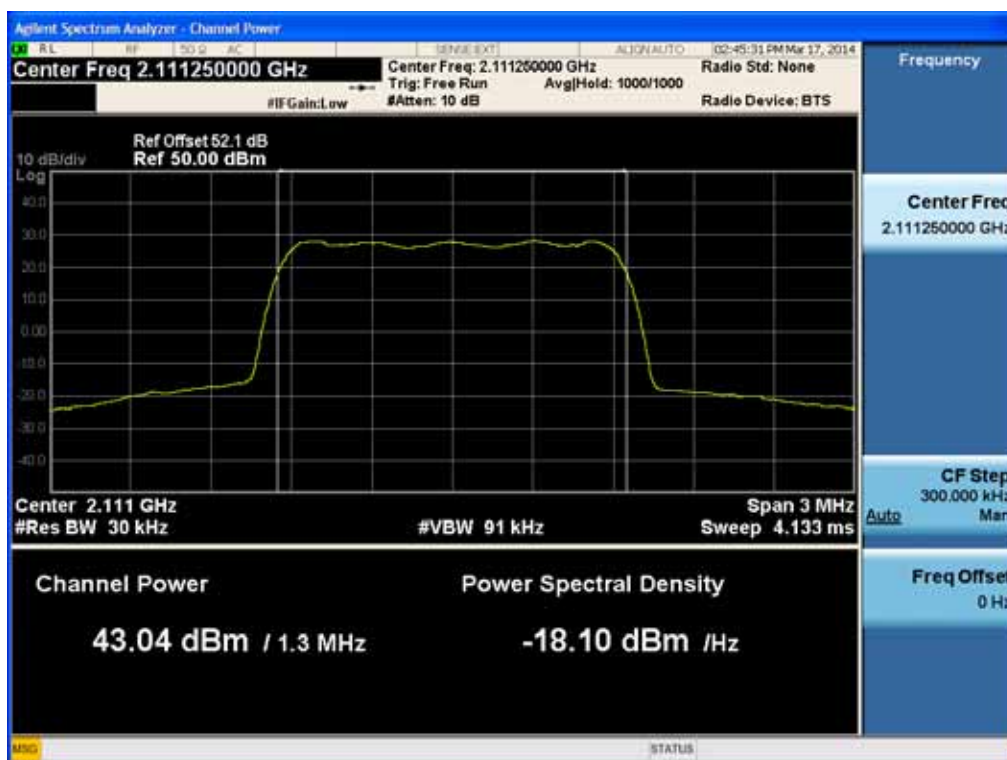
	Channel	Frequency (MHz)	Output Power	
			(dBm)	(W)
CDMA	Low	1711.25	30.10	1.024
	Middle	1732.50	30.08	1.020
	High	1753.75	30.05	1.012
WCDMA	Low	1712.50	30.03	1.008
	Middle	1732.50	30.04	1.009
	High	1752.50	30.02	1.004

[Uplink]

	Channel	Frequency (MHz)	Output Power	
			(dBm)	(W)
LTE 5 MHz	Low	1712.50	30.06	1.015
	Middle	1732.50	30.10	1.023
	High	1752.50	29.99	0.998
LTE 10 MHz	Low	1715.0	30.00	0.999
	Middle	1735.0	29.79	0.952
	High	1750.0	29.94	0.987
LTE 15 MHz	Low	1717.50	30.01	1.003
	Middle	1732.50	30.04	1.008
	High	1747.50	30.05	1.012
LTE 20 MHz	Low	1720.00	30.02	1.005
	Middle	1730.00	30.12	1.028
	High	1745.00	30.00	1.001

Plots of RF Output Power

[CDMA Downlink Low]



[CDMA Downlink Middle]



[CDMA Downlink High]



[WCDMA Downlink Low]



[WCDMA Downlink Middle]



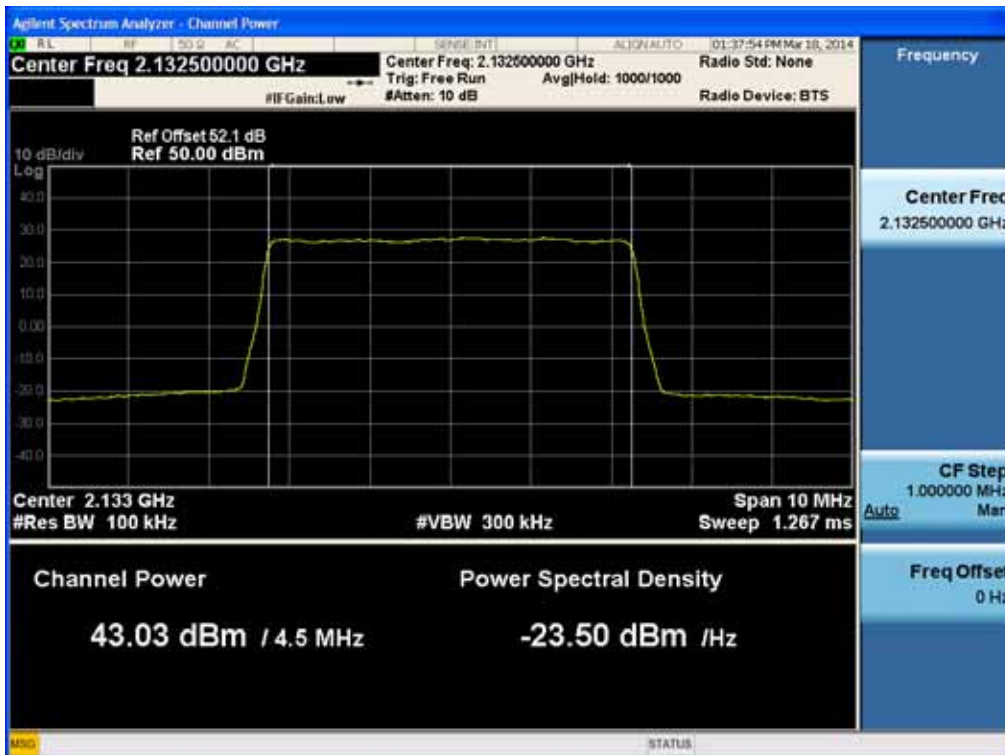
[WCDMA Downlink High]



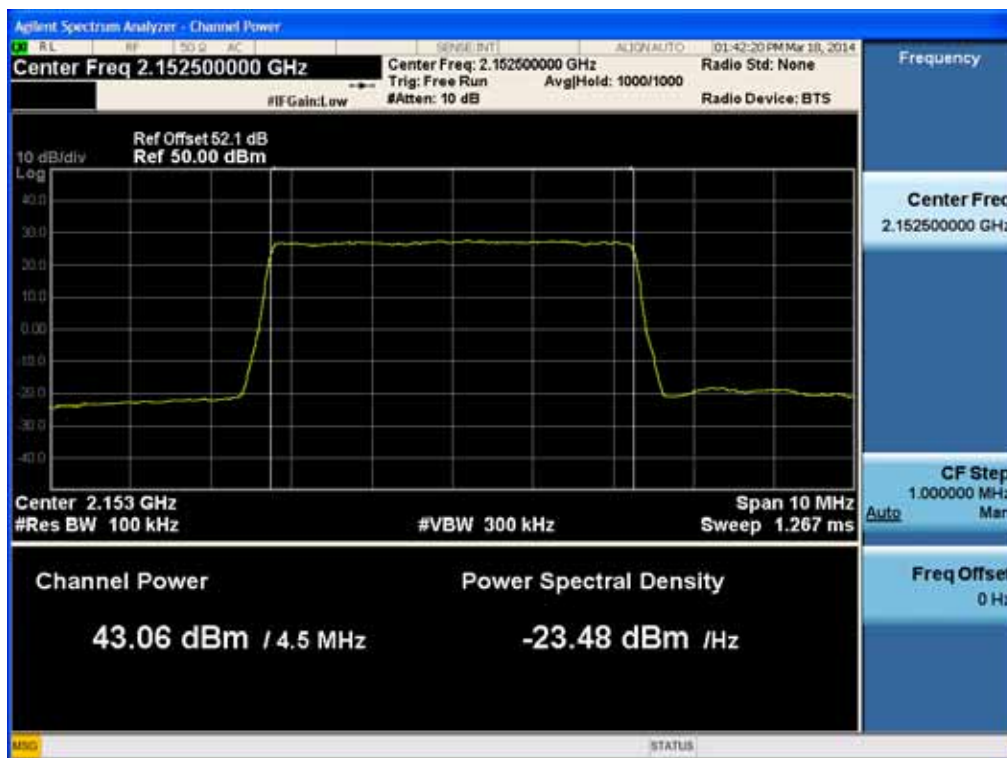
[LTE Downlink 5 MHz Low]



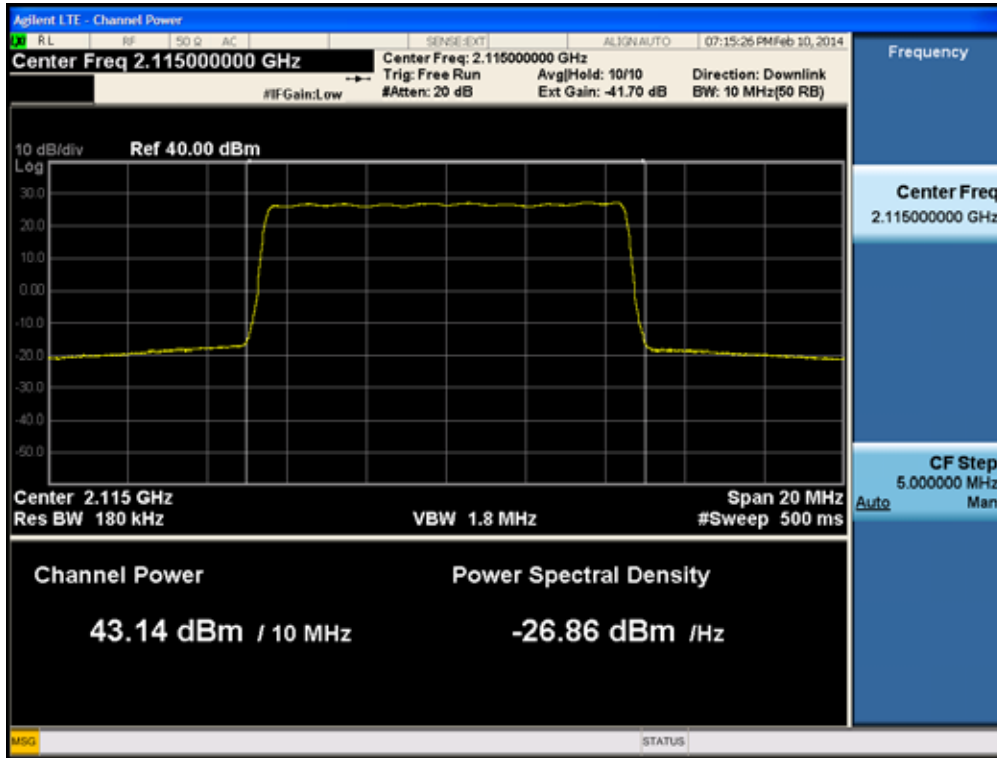
[LTE Downlink 5 MHz Middle]



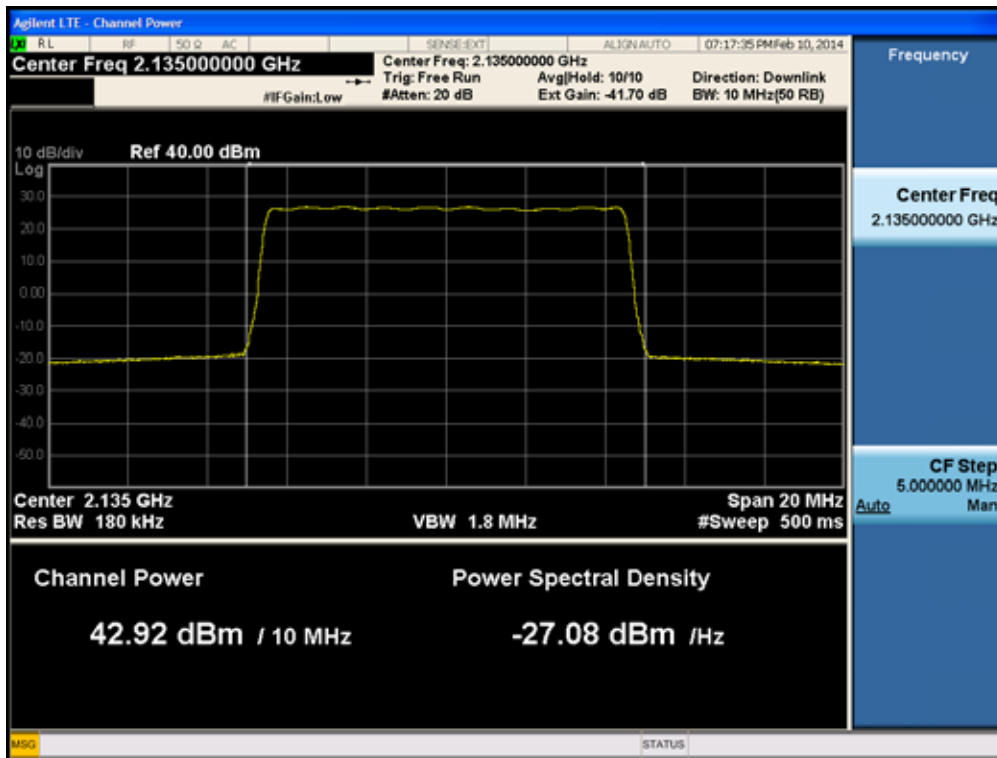
[LTE Downlink 5 MHz High]



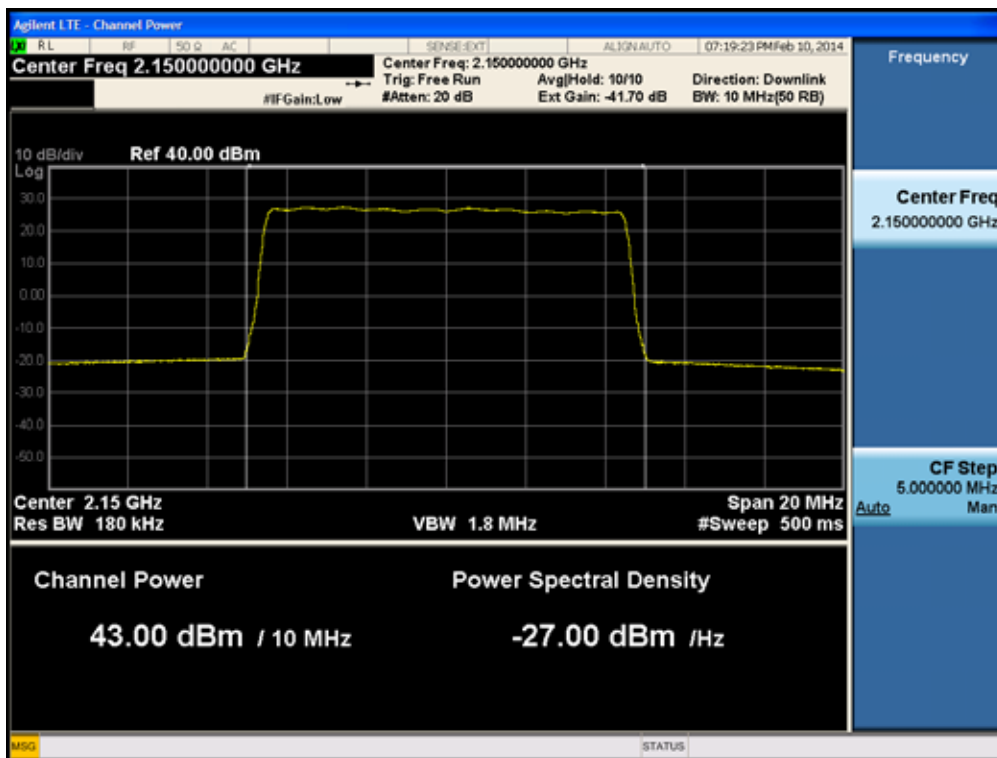
[LTE Downlink 10 MHz Low]



[LTE Downlink 10 MHz Middle]



[LTE Downlink 10 MHz High]



[LTE Downlink 15 MHz Low]



[LTE Downlink 15 MHz Middle]



[LTE Downlink 15 MHz High]



[LTE Downlink 20 MHz Low]



[LTE Downlink 20 MHz Middle]



[LTE Downlink 20 MHz High]



[CDMA Uplink Low]



[CDMA Uplink Middle]



[CDMA Uplink High]



[WCDMA Uplink Low]



[WCDMA Uplink Middle]



[WCDMA Uplink High]



[LTE Uplink 5 MHz Low]



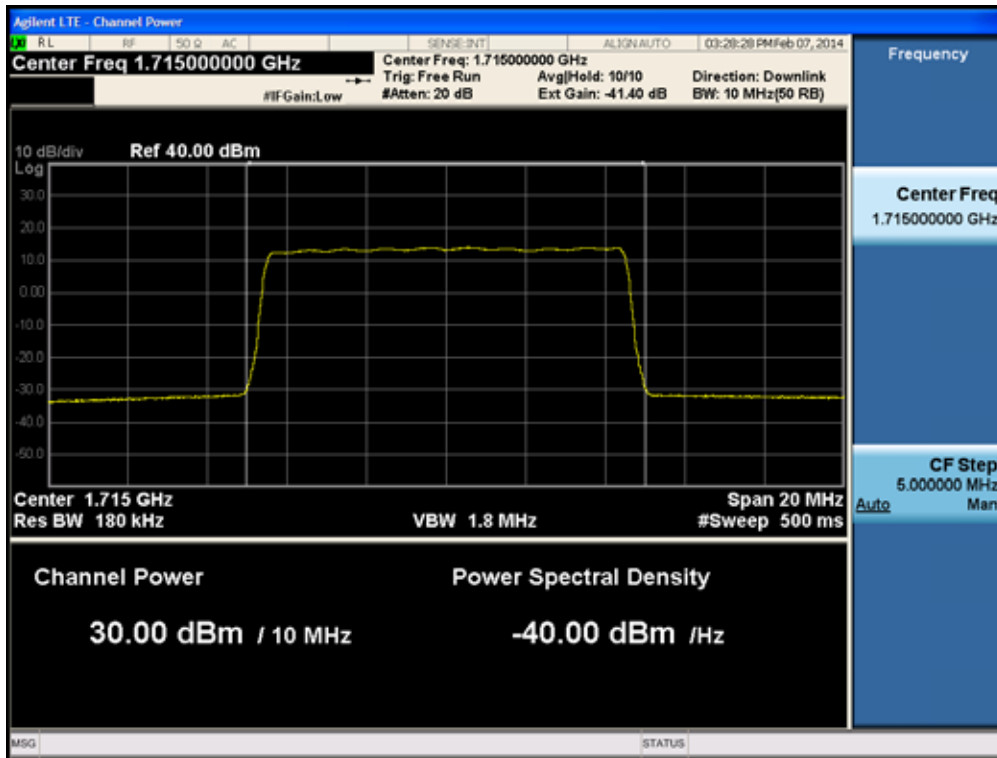
[LTE Uplink 5 MHz Middle]



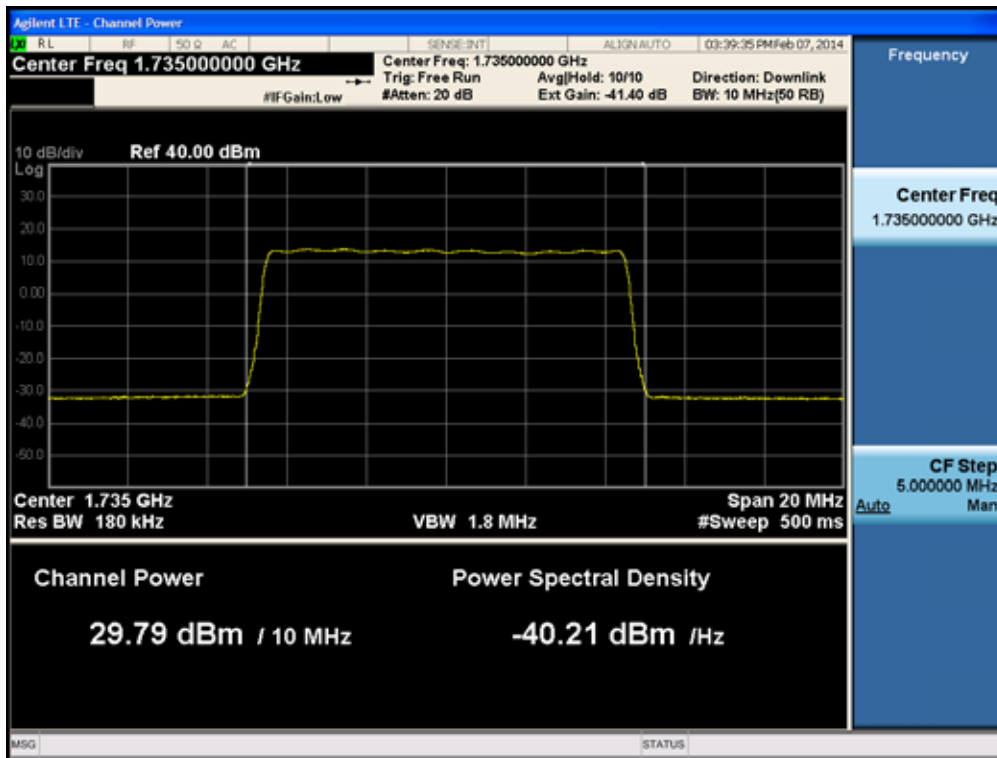
[LTE Uplink 5 MHz High]



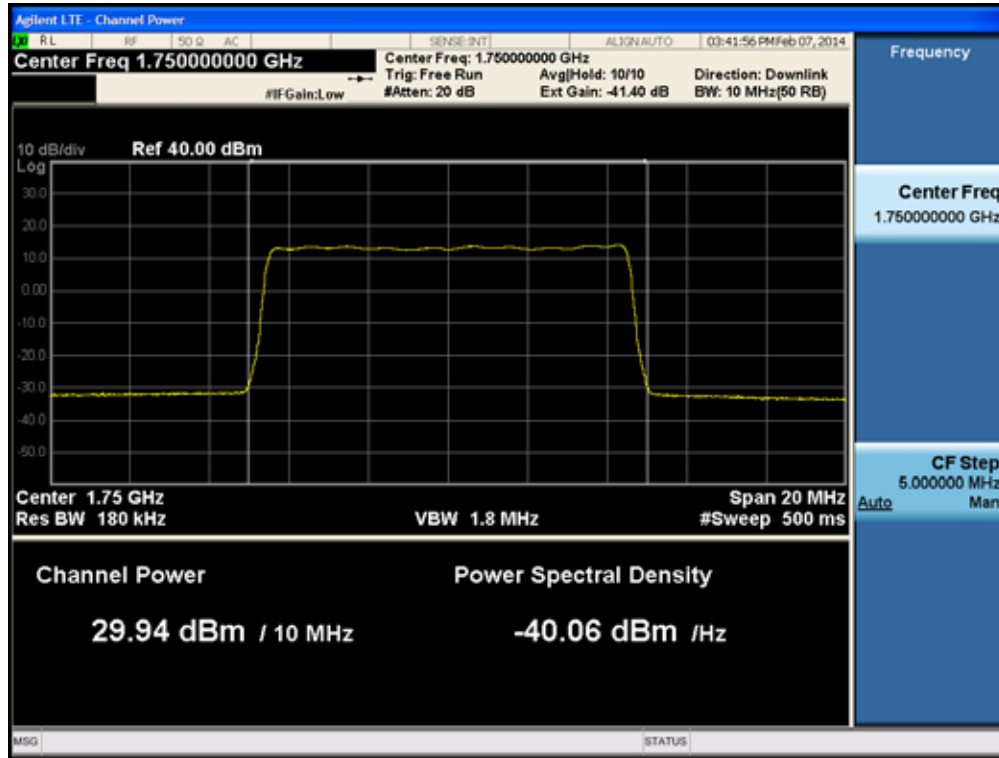
[LTE Uplink 10 MHz Low]



[LTE Uplink 10 MHz Middle]



[LTE Uplink 10 MHz High]



[LTE Uplink 15 MHz Low]



[LTE Uplink 15 MHz Middle]



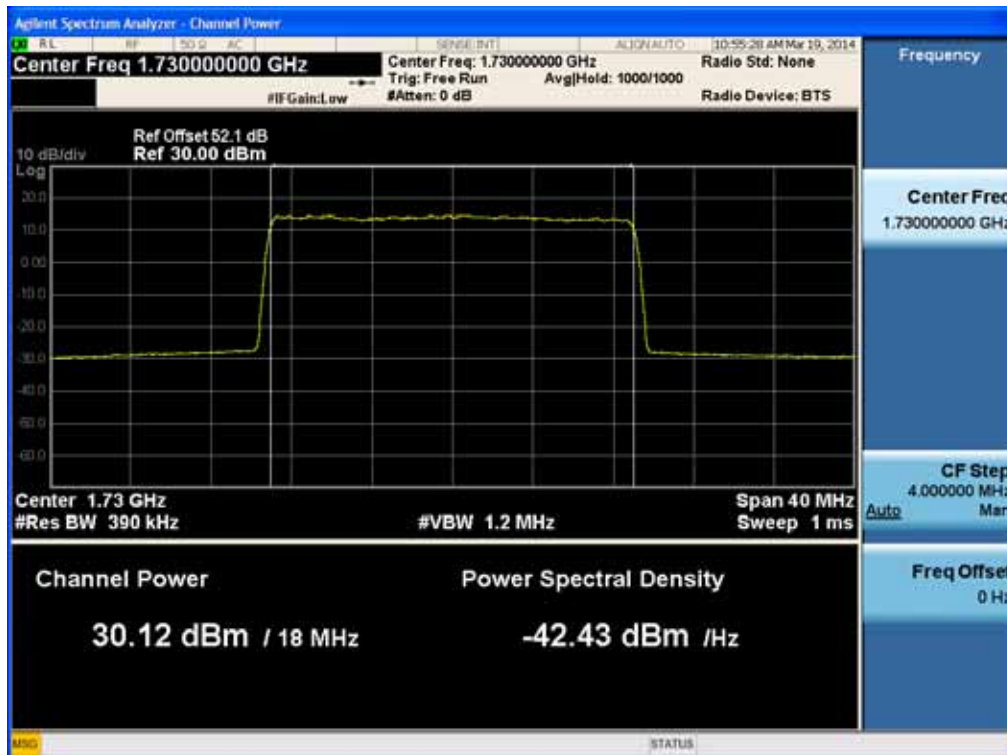
[LTE Uplink 15 MHz High]



[LTE Uplink 20 MHz Low]



[LTE Uplink 20 MHz Middle]



[LTE Uplink 20 MHz High]



7. OCCUPIED BANDWIDTH

Test Requirement(s): § 2.1049 Measurements required: Occupied bandwidth:

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured under the specified conditions of § 2.1049 (a) through (i) as applicable.

Test Procedures: As required by 47 CFR 2.1049, *occupied bandwidth measurements* were made with a Spectrum Analyzer connected to the RF ports for both Uplink and Downlink. The modulation characteristics of signal generator's carrier was measured first at a maximum RF level prescribed by the OEM. The signal generator was then connected to either the Uplink or Downlink input at the appropriate RF level. The resulting modulated signal through the EUT was measured and compared against the original signal.

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

Input Signal	Input Level (dBm)	Maximum Amp Gain
CDMA	DL : -52 dBm UL : -65 dBm	DL : 95 dB UL : 95 dB
WCDMA		
LTE		

[Downlink Output]

	Channel	Frequency (MHz)	OBW (MHz)
CDMA	Low	2111.25	1.2629
	Middle	2132.50	1.2617
	High	2153.75	1.2607
WCDMA	Low	2112.50	4.0503
	Middle	2132.50	4.0394
	High	2152.50	4.0381

[Downlink Input]

	Channel	Frequency (MHz)	OBW (MHz)
CDMA	Low	2111.25	1.2634
	Middle	2132.50	1.2640
	High	2153.75	1.2663
WCDMA	Low	2112.50	4.1608
	Middle	2132.50	4.1709
	High	2152.50	4.1677

[Downlink Output]

	Channel	Frequency (MHz)	OBW (MHz)
LTE 5 MHz	Low	2112.50	4.5073
	Middle	2132.50	4.5074
	High	2152.50	4.5004
LTE 10 MHz	Low	2115.0	8.962
	Middle	2135.0	8.985
	High	2150.0	8.957
LTE 15 MHz	Low	2117.50	13.453
	Middle	2132.50	13.444
	High	2147.50	13.424
LTE 20 MHz	Low	2120.00	17.943
	Middle	2130.00	17.924
	High	2145.00	17.955

[Downlink Input]

	Channel	Frequency (MHz)	OBW (MHz)
LTE 5 MHz	Low	2112.50	4.5253
	Middle	2132.50	4.5192
	High	2152.50	4.5258
LTE 10 MHz	Low	2115.0	8.992
	Middle	2135.0	8.982
	High	2150.0	9.002
LTE 15 MHz	Low	2117.50	13.488
	Middle	2132.50	13.447
	High	2147.50	13.482
LTE 20 MHz	Low	2120.00	17.989
	Middle	2130.00	18.011
	High	2145.00	17.989

[Uplink Output]

	Channel	Frequency (MHz)	OBW (MHz)
CDMA	Low	1711.25	1.2598
	Middle	1732.50	1.2604
	High	1753.75	1.2598
WCDMA	Low	1712.50	4.0958
	Middle	1732.50	4.0761
	High	1752.50	4.0738

[Uplink Input]

	Channel	Frequency (MHz)	OBW (MHz)
CDMA	Low	1711.25	1.2670
	Middle	1732.50	1.2642
	High	1753.75	1.2619
WCDMA	Low	1712.50	4.1645
	Middle	1732.50	4.1685
	High	1752.50	4.1611

[Uplink Output]

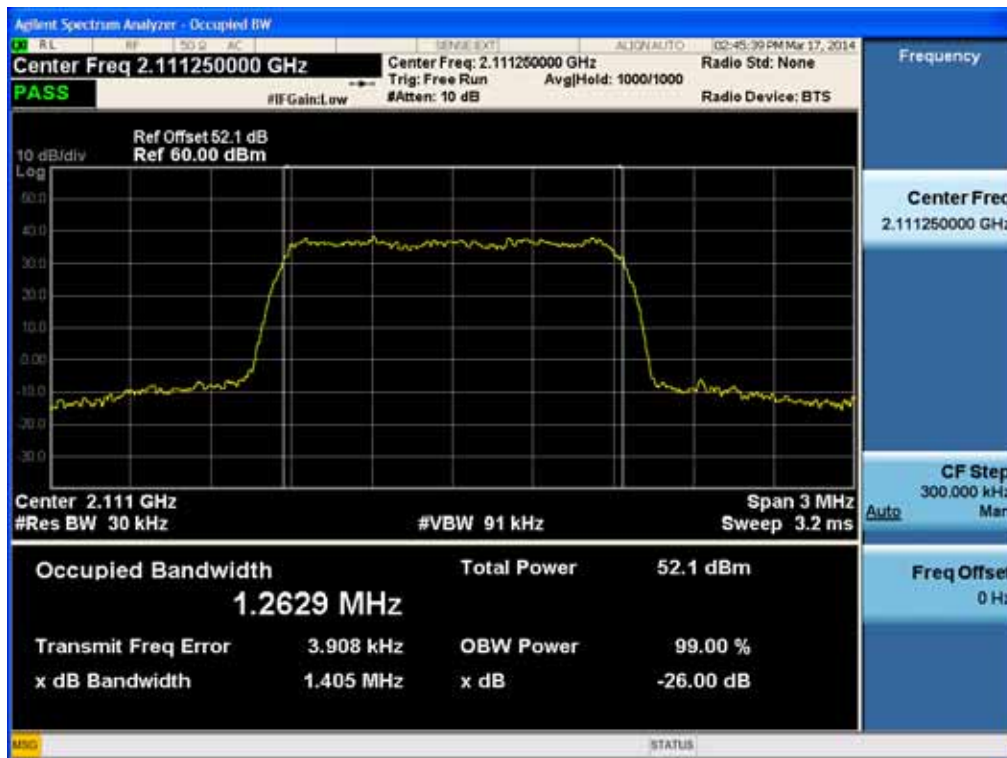
	Channel	Frequency (MHz)	OBW (MHz)
LTE 5 MHz	Low	1712.50	4.5036
	Middle	1732.50	4.5027
	High	1752.50	4.5037
LTE 10 MHz	Low	1715.0	8.966
	Middle	1735.0	9.001
	High	1750.0	8.976
LTE 15 MHz	Low	1717.50	13.434
	Middle	1732.50	13.440
	High	1747.50	13.407
LTE 20 MHz	Low	1720.00	17.927
	Middle	1730.00	17.928
	High	1745.00	17.909

[Uplink Input]

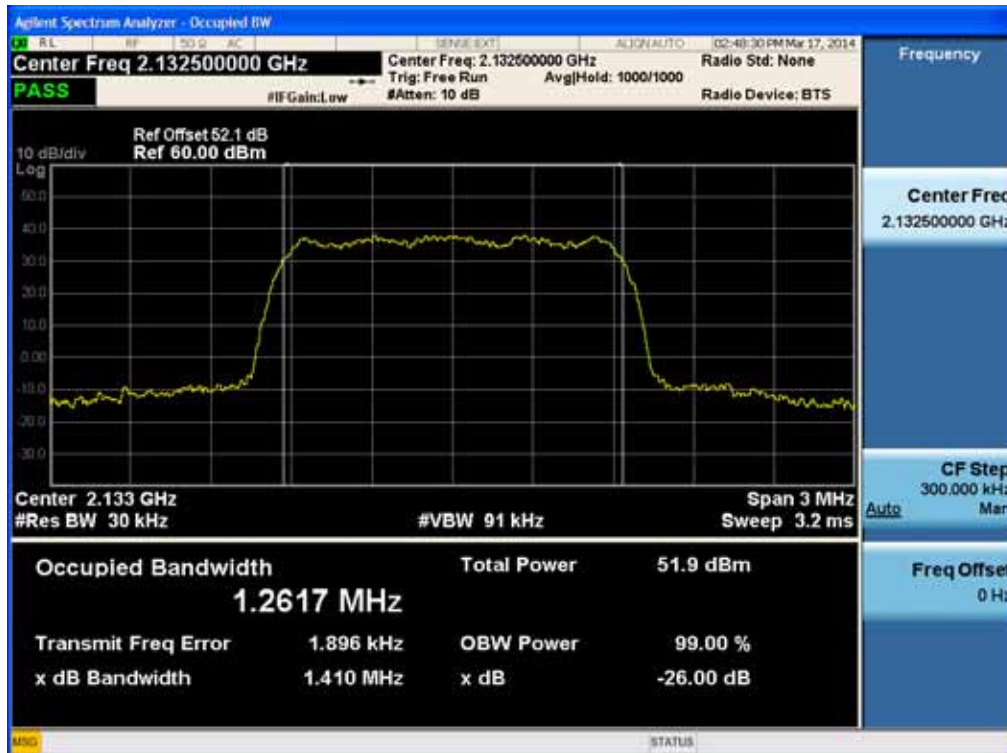
	Channel	Frequency (MHz)	OBW (MHz)
LTE 5 MHz	Low	1712.50	4.5182
	Middle	1732.50	4.5270
	High	1752.50	4.5274
LTE 10 MHz	Low	1715.0	9.006
	Middle	1735.0	9.002
	High	1750.0	8.985
LTE 15 MHz	Low	1717.50	13.461
	Middle	1732.50	13.468
	High	1747.50	13.483
LTE 20 MHz	Low	1720.00	17.985
	Middle	1730.00	18.019
	High	1745.00	18.009

Plots of Occupied Bandwidth

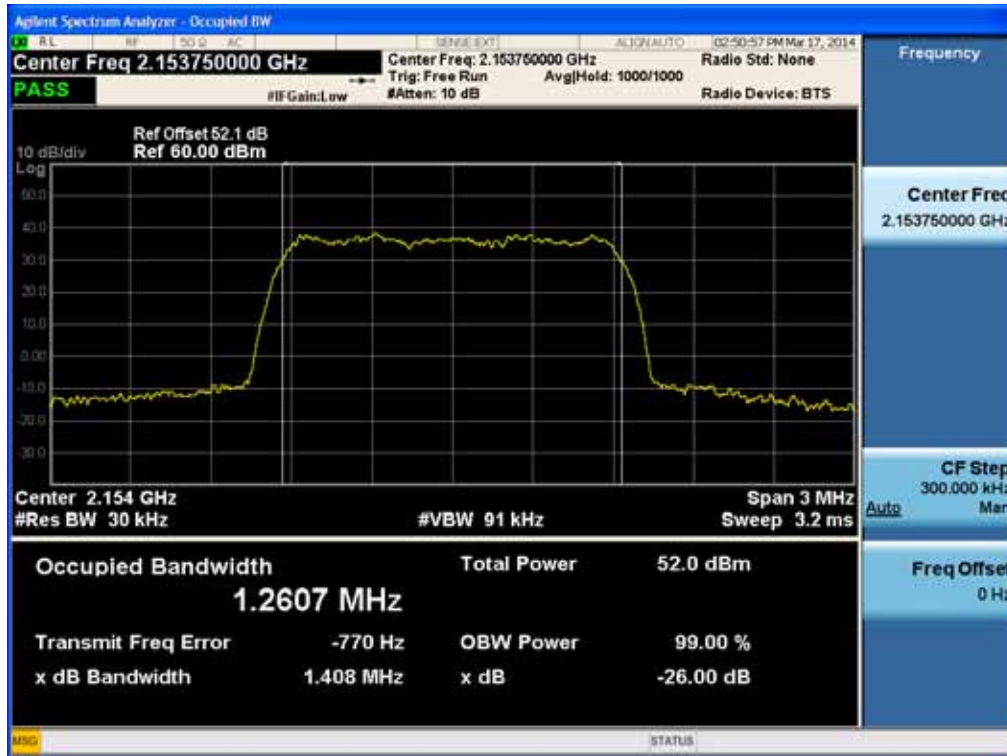
[Output CDMA Downlink Low]



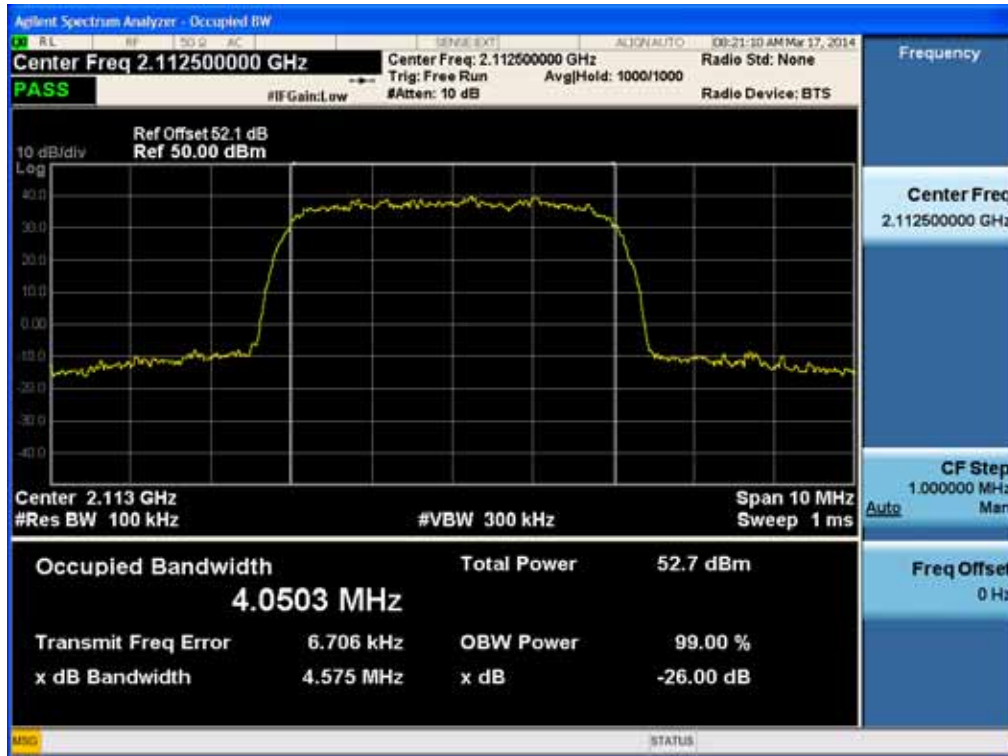
[Output CDMA Downlink Middle]



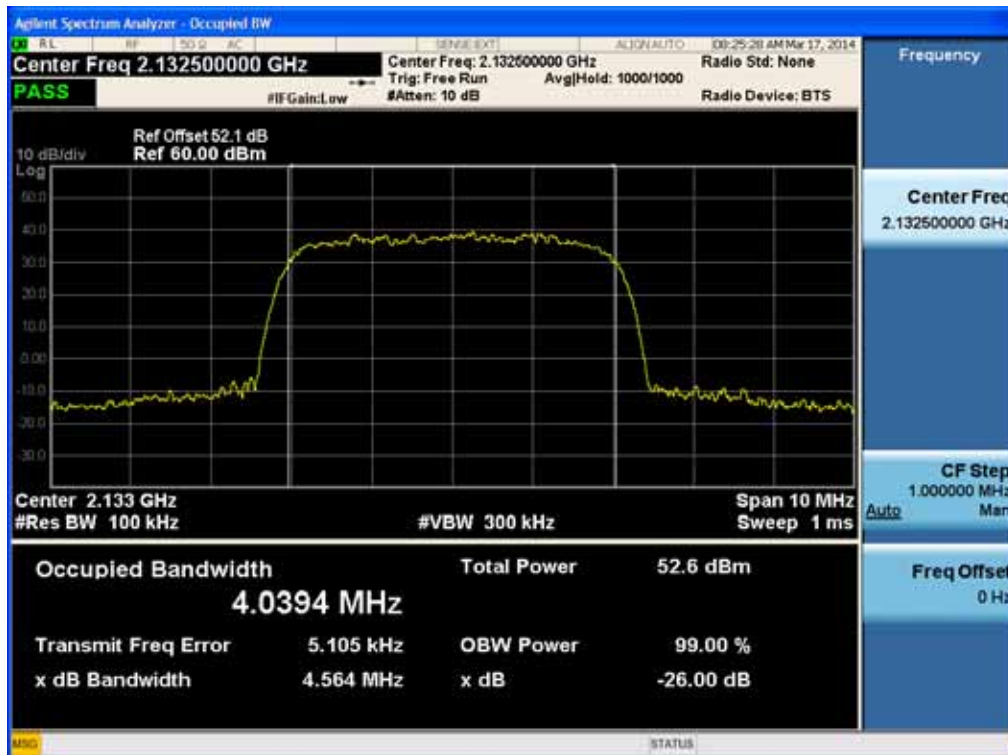
[Output CDMA Downlink High]



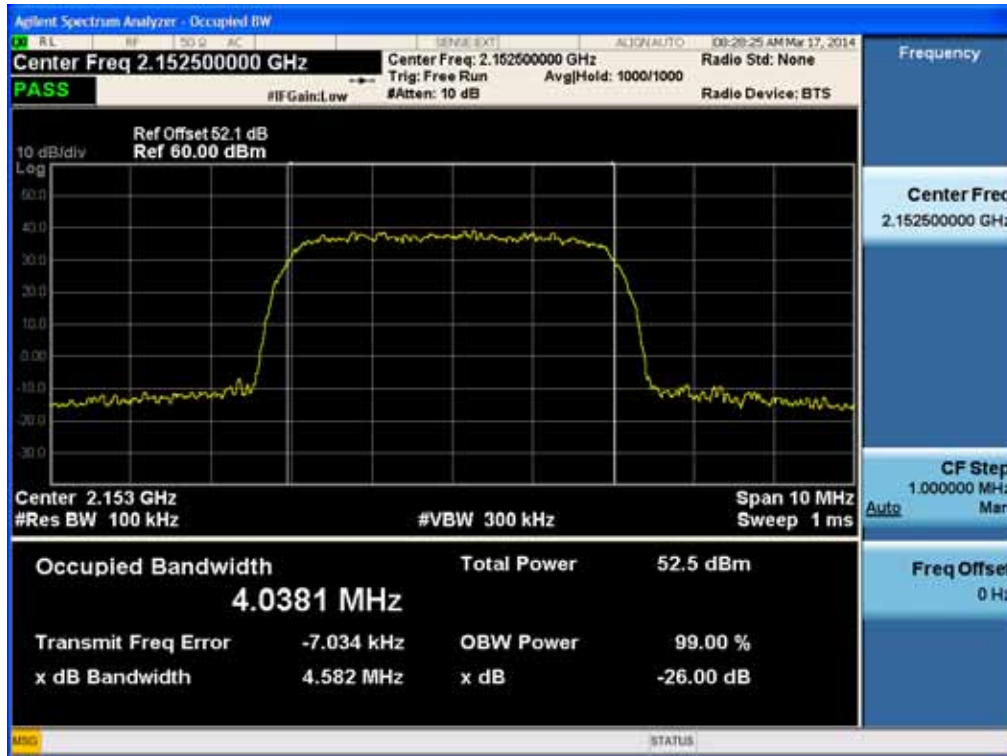
[Output WCDMA Downlink Low]



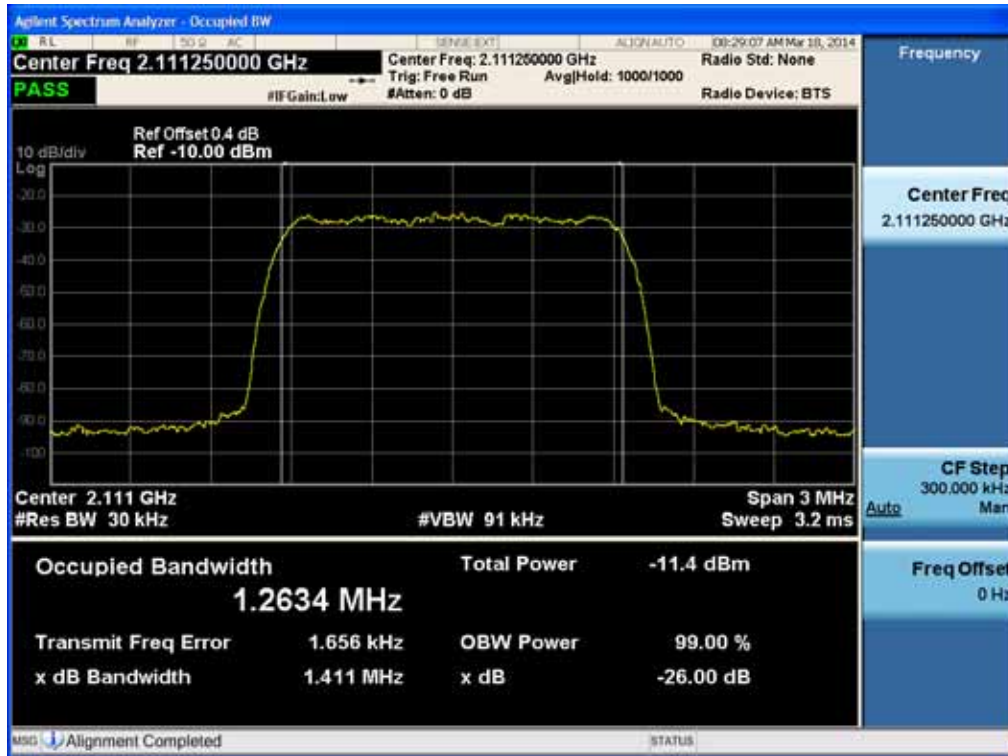
[Output WCDMA Downlink Middle]



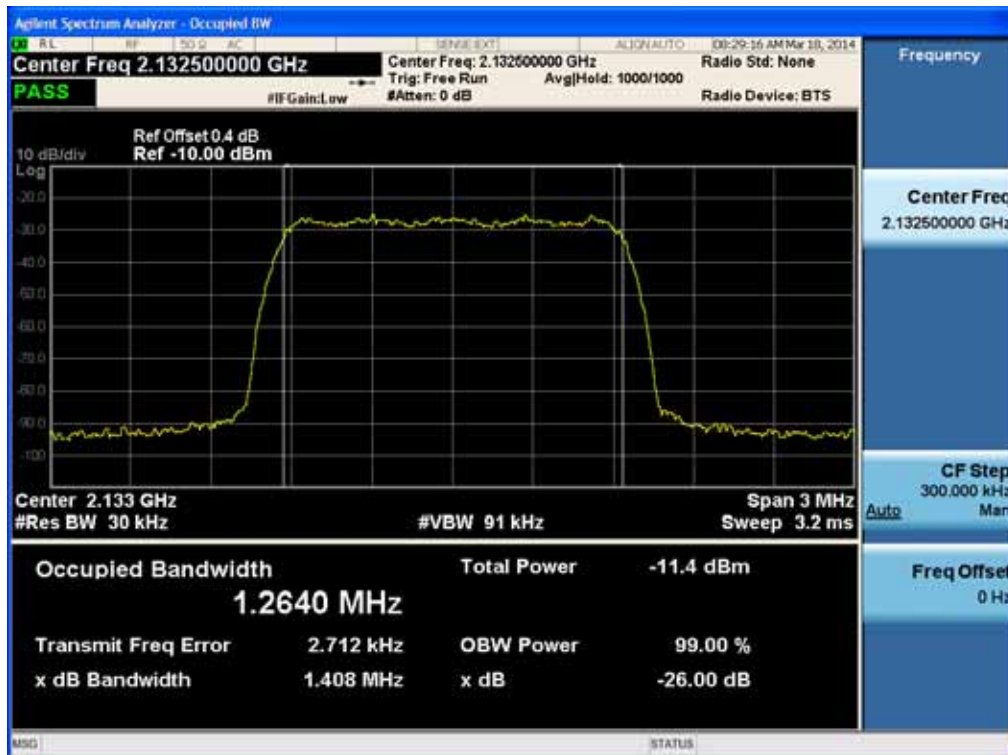
[Output WCDMA Downlink High]



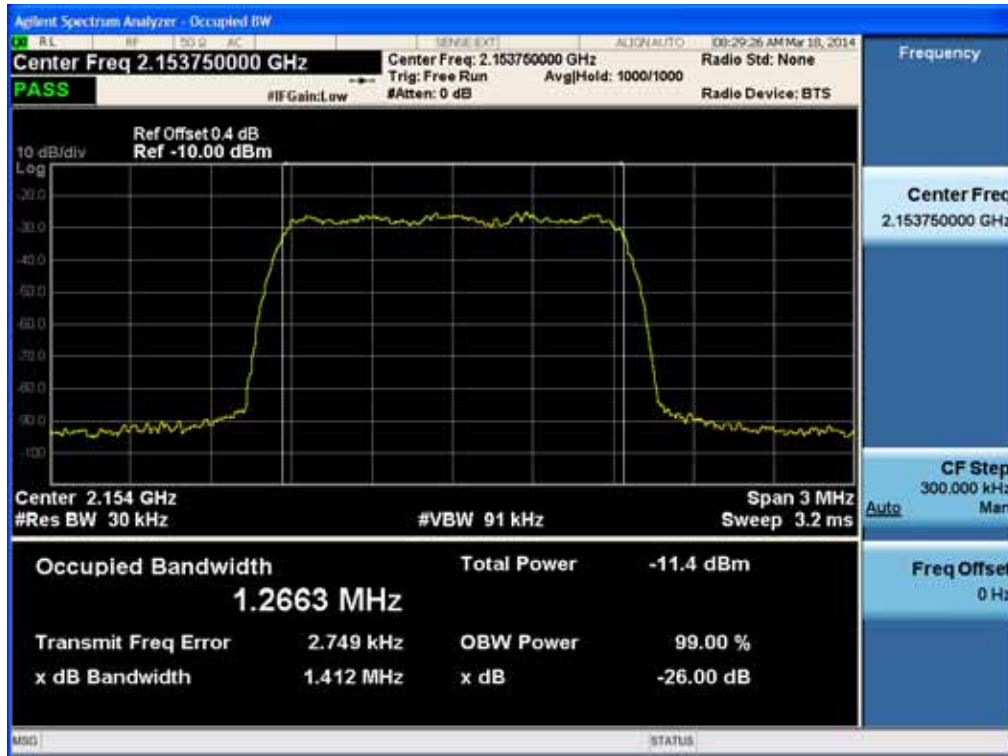
[[Input CDMA Downlink Low]]



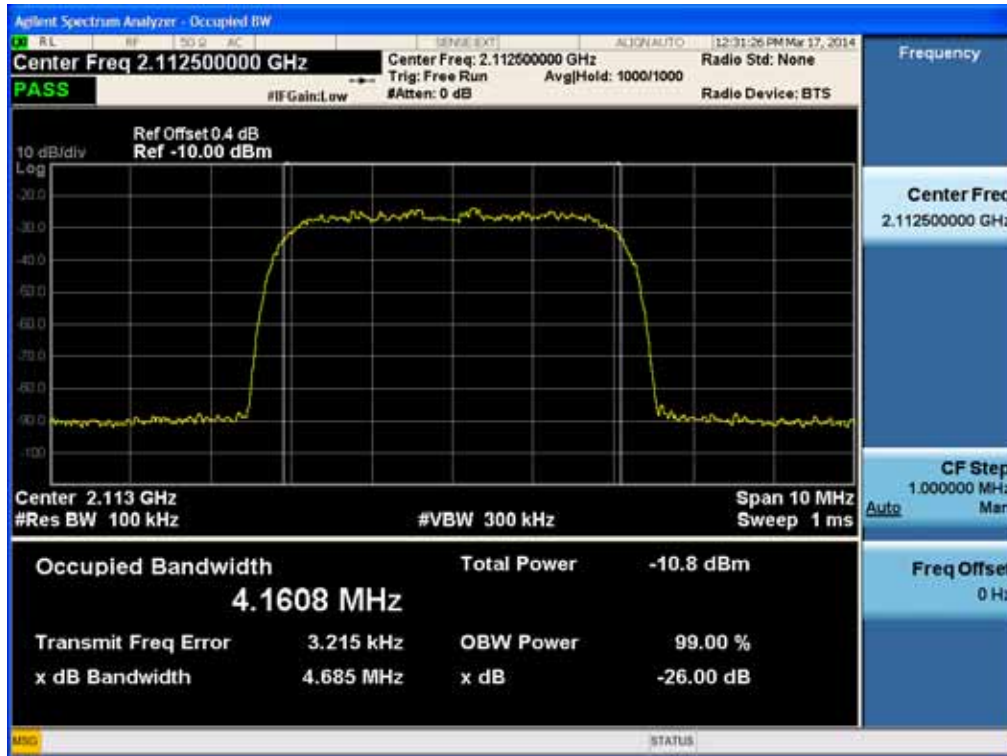
[[Input CDMA Downlink Middle]]



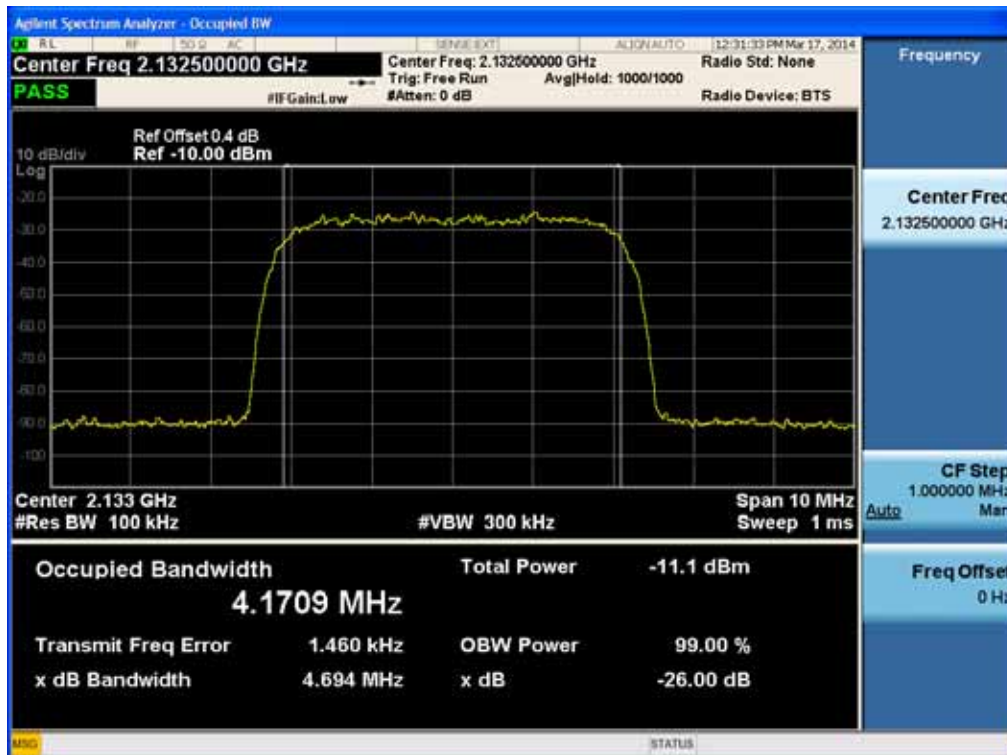
[[Input CDMA Downlink High]]



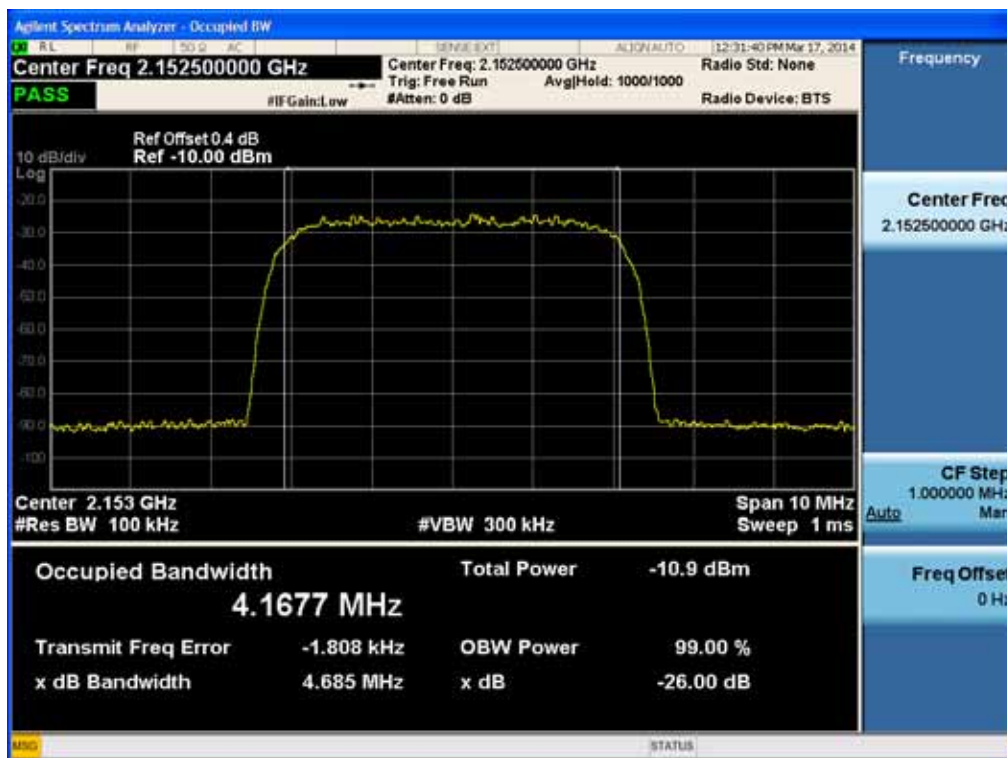
[[Input WCDMA Downlink Low]]



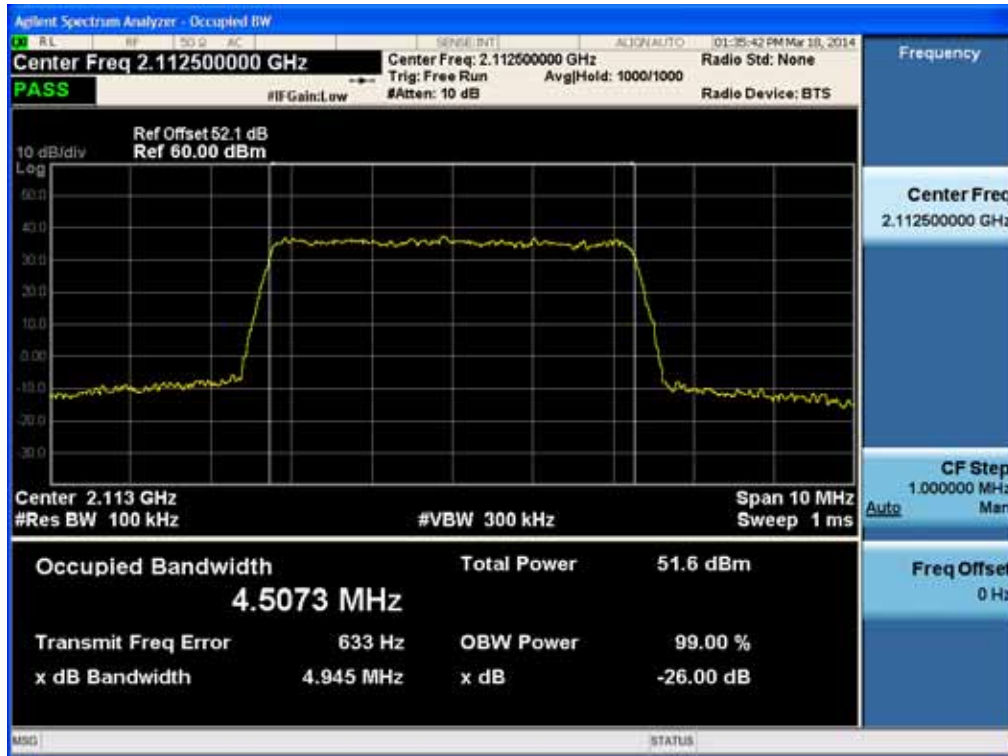
[[Input WCDMA Downlink Middle]]



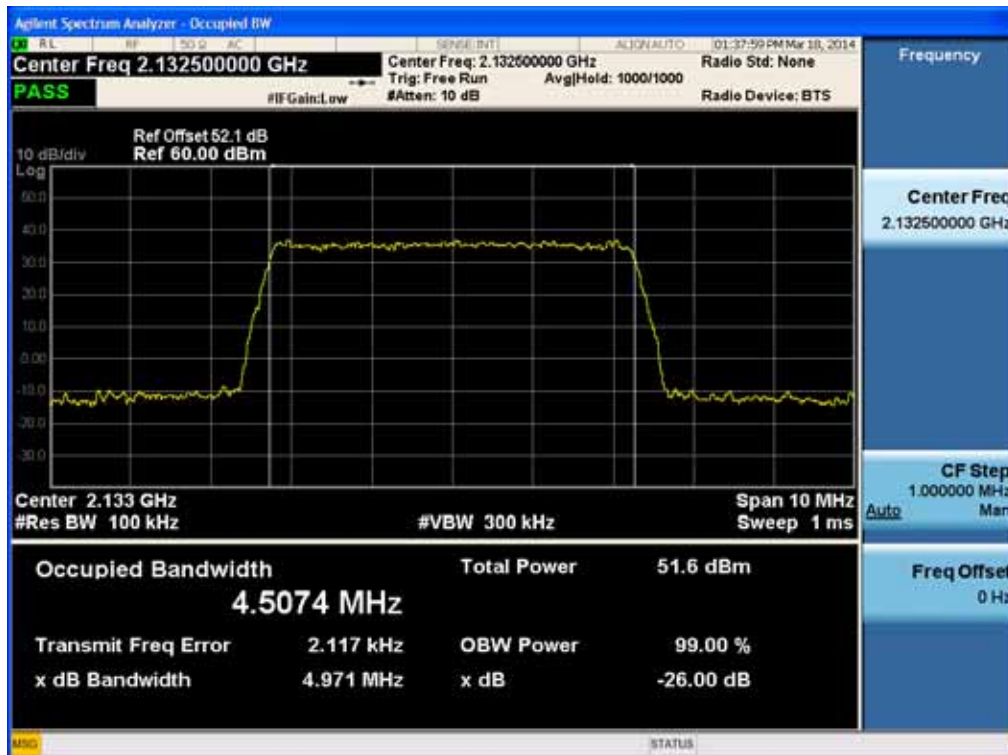
[[Input WCDMA Downlink High]]



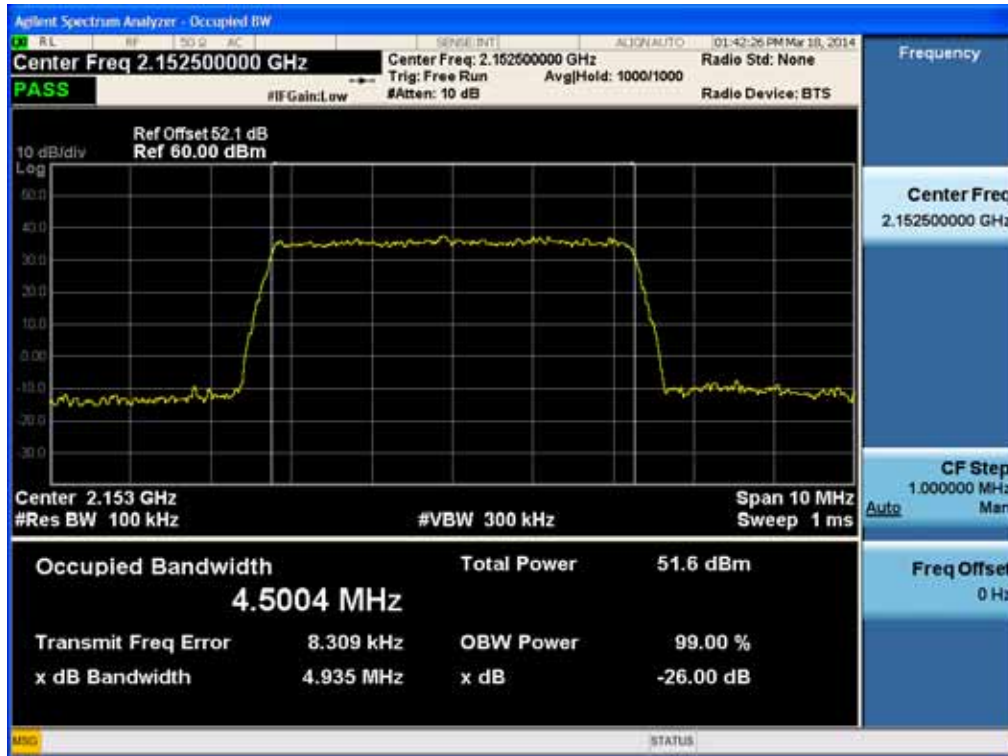
[Output LTE Downlink 5 MHz Low]



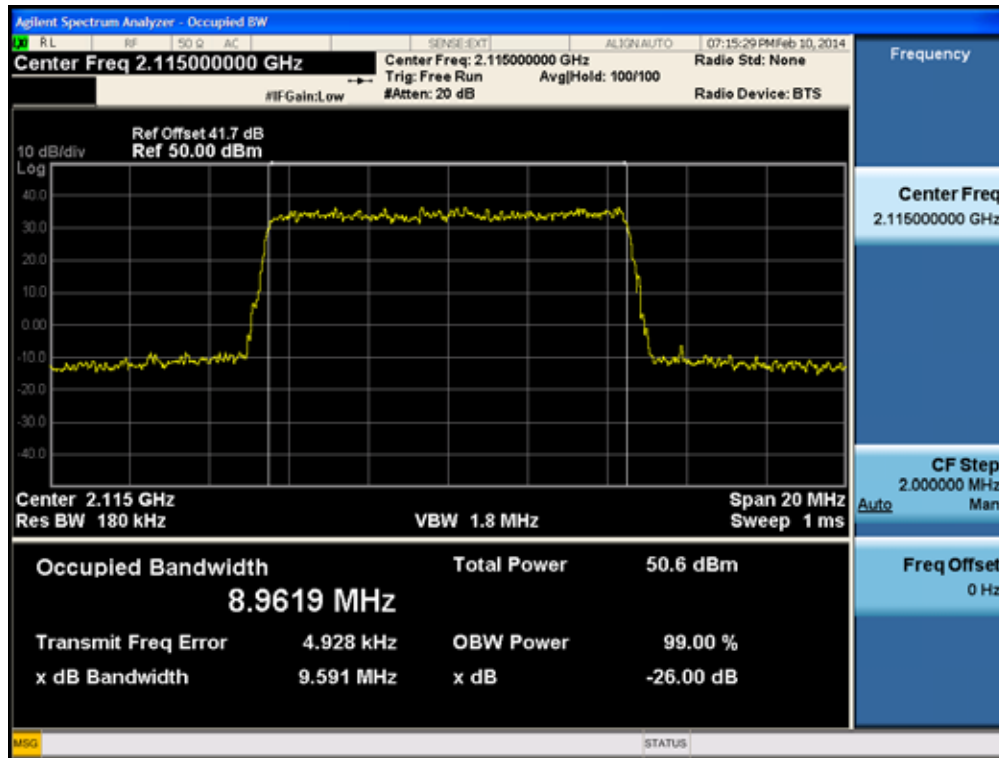
[Output LTE Downlink 5 MHz Middle]



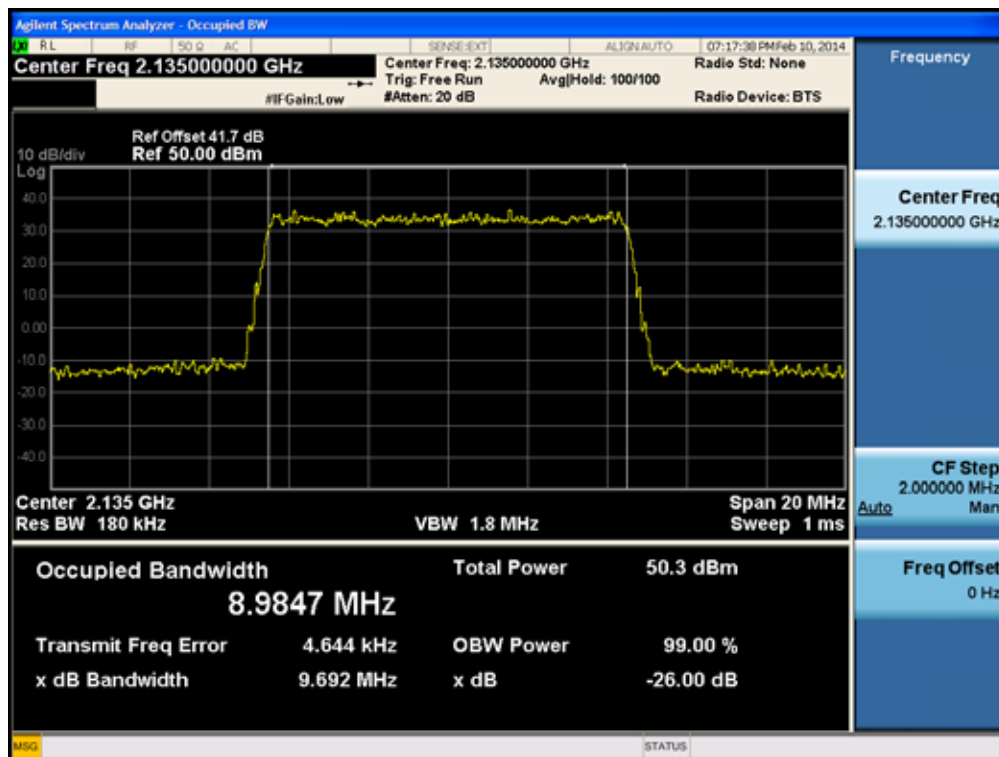
[Output LTE Downlink 5 MHz High]



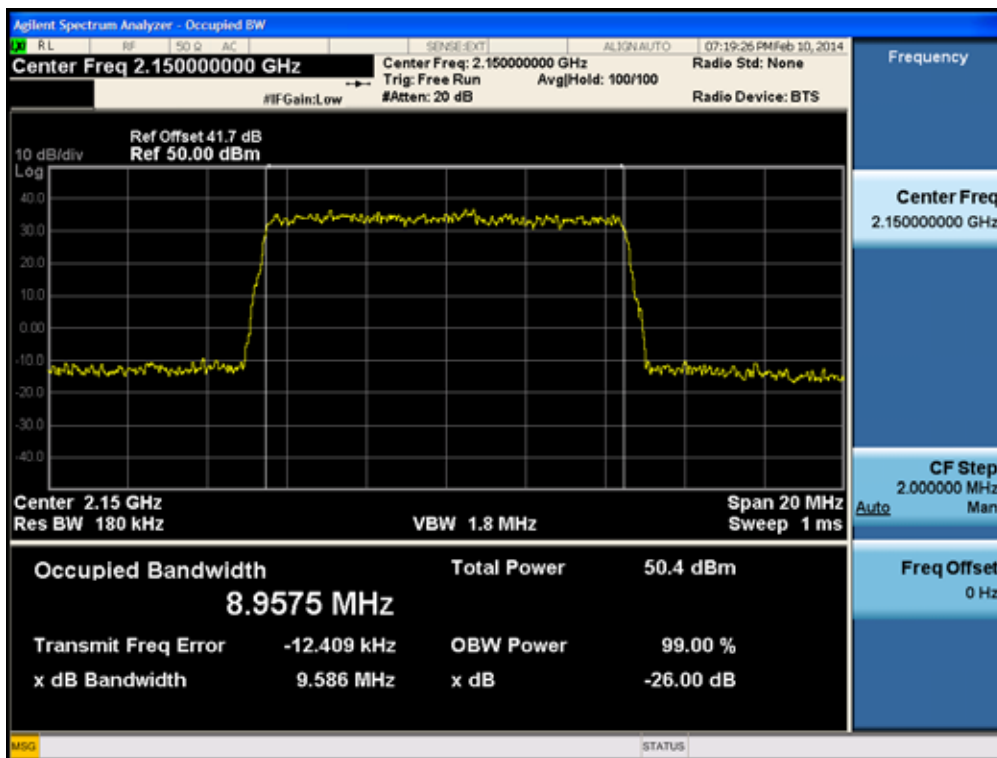
[Output LTE Downlink 10 MHz Low]



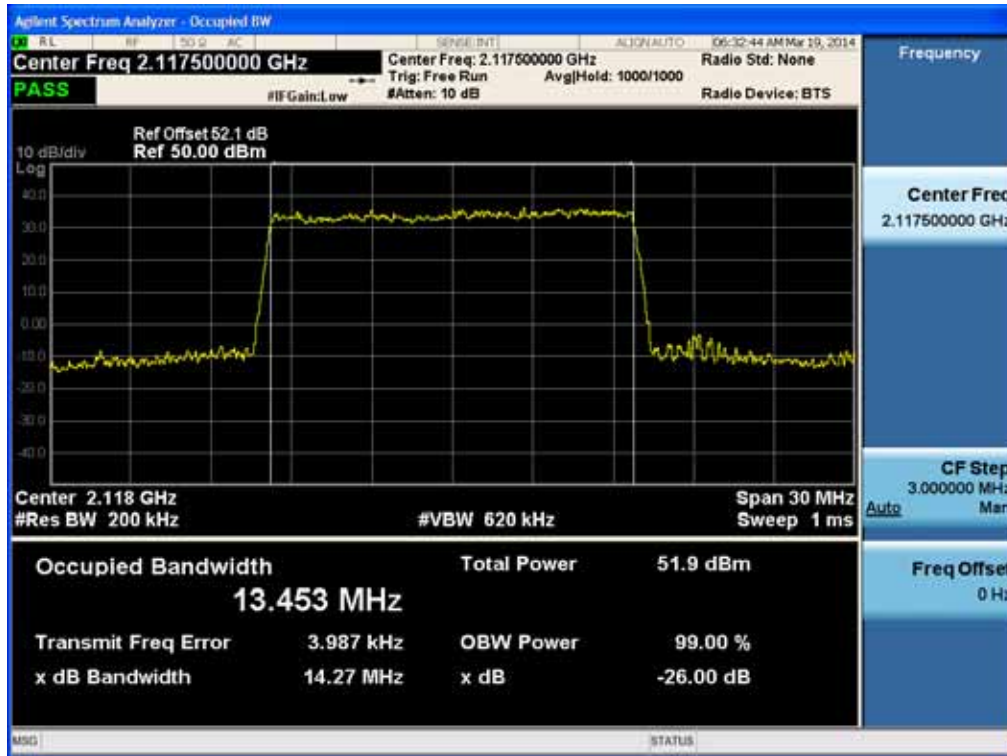
[Output LTE Downlink 10 MHz Middle]



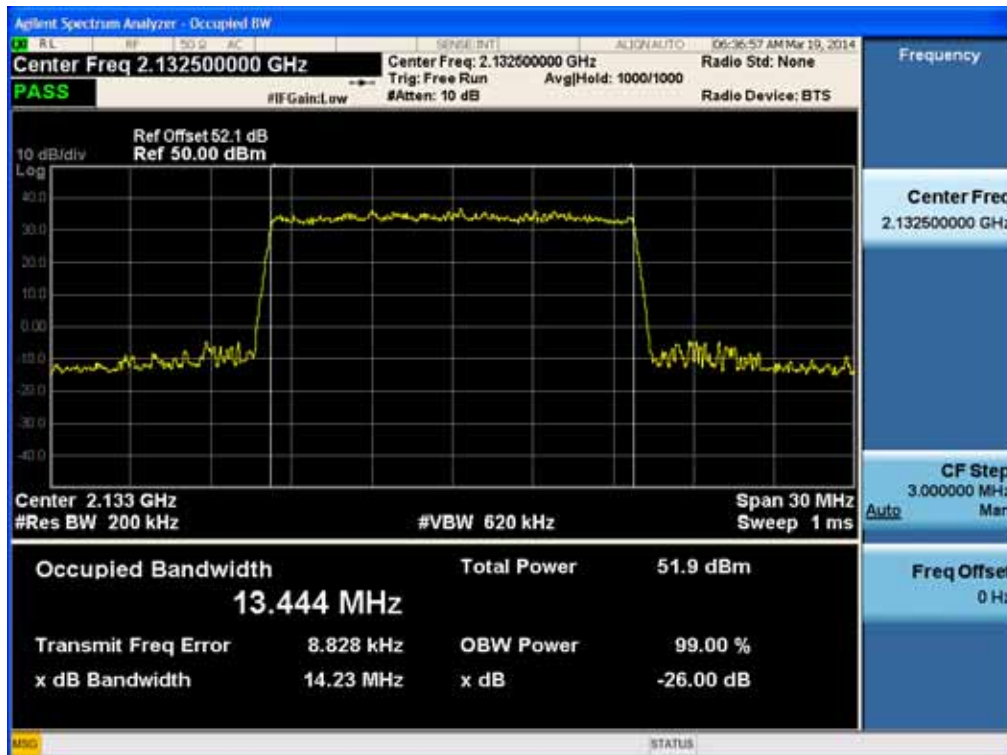
[Output LTE Downlink 10 MHz High]



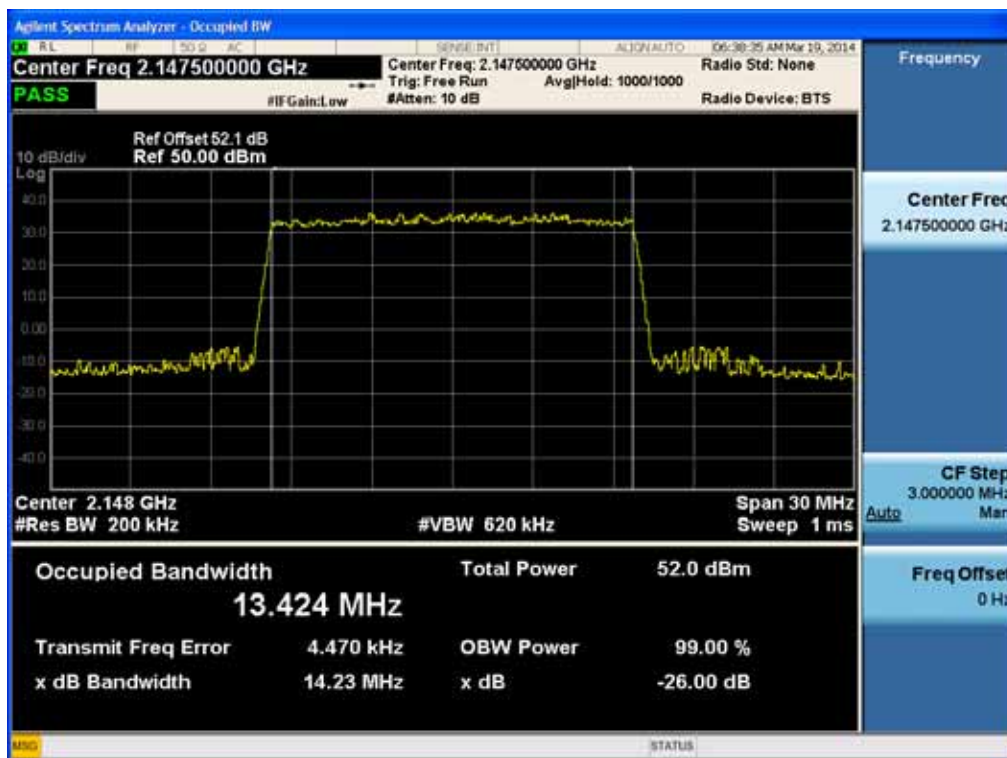
[Output LTE Downlink 15 MHz Low]



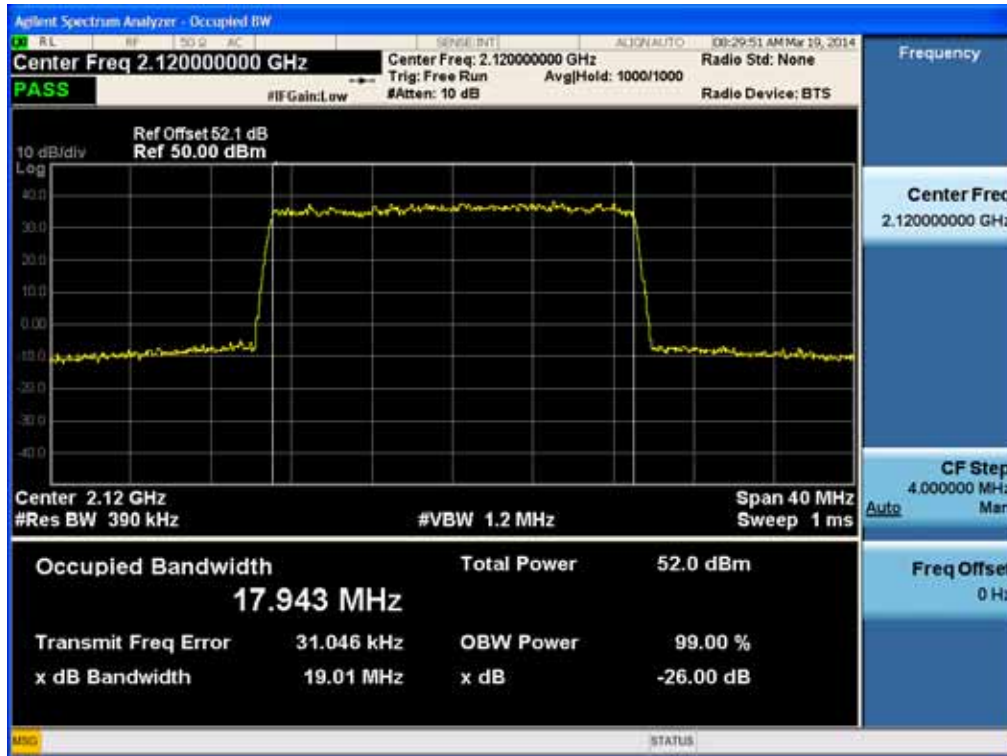
[Output LTE Downlink 15 MHz Middle]



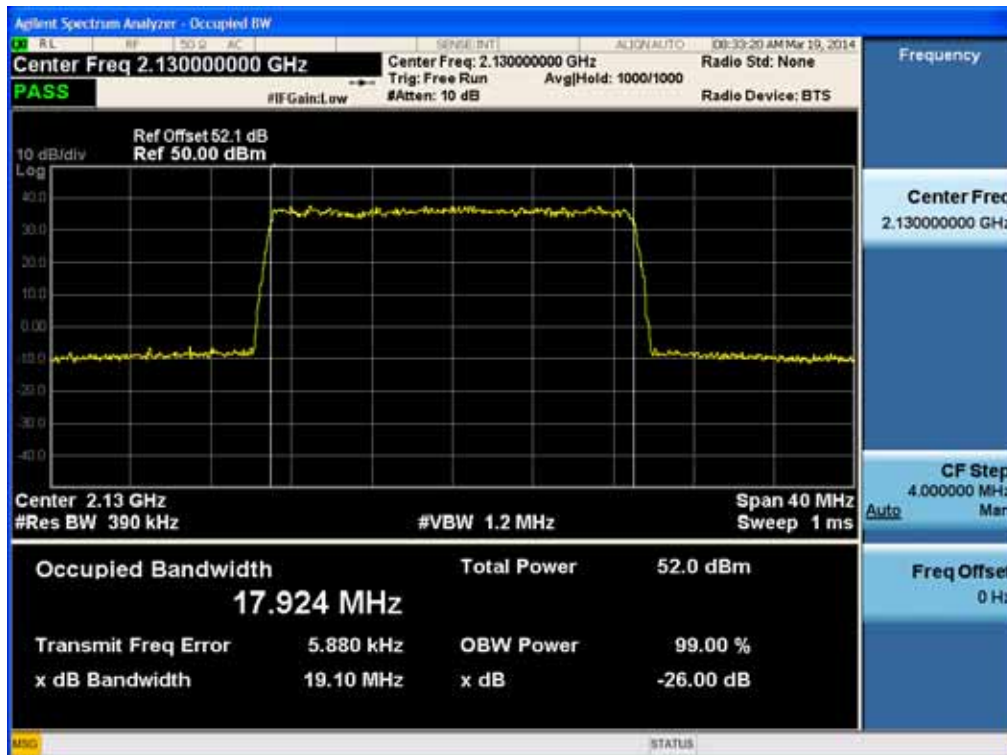
[Output LTE Downlink 15 MHz High]



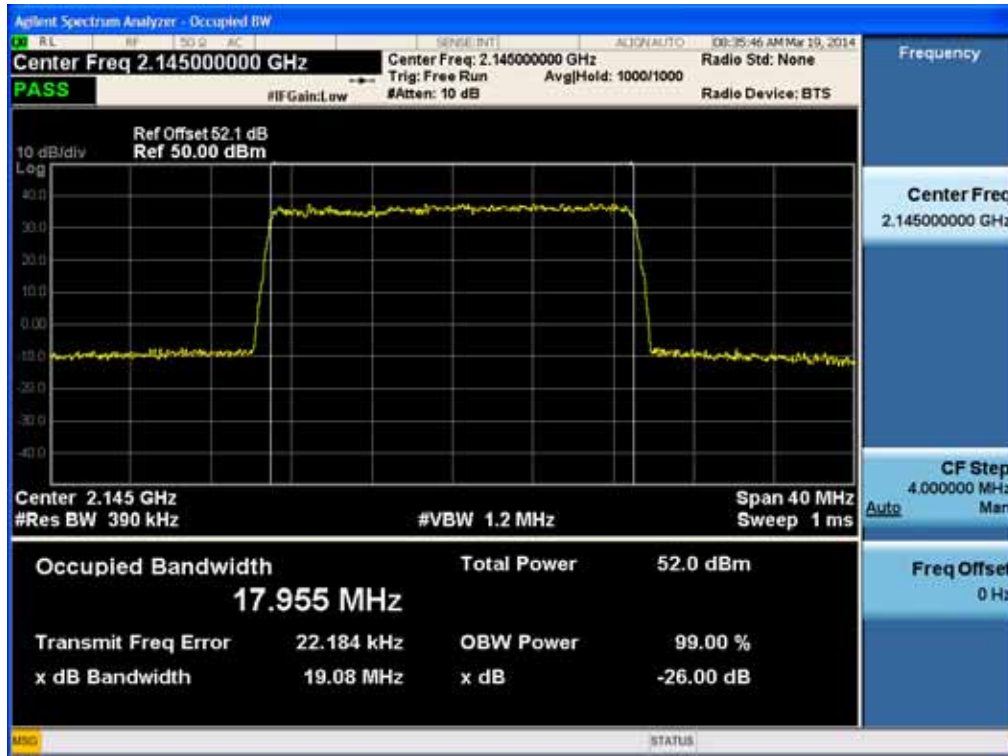
[Output LTE Downlink 20 MHz Low]



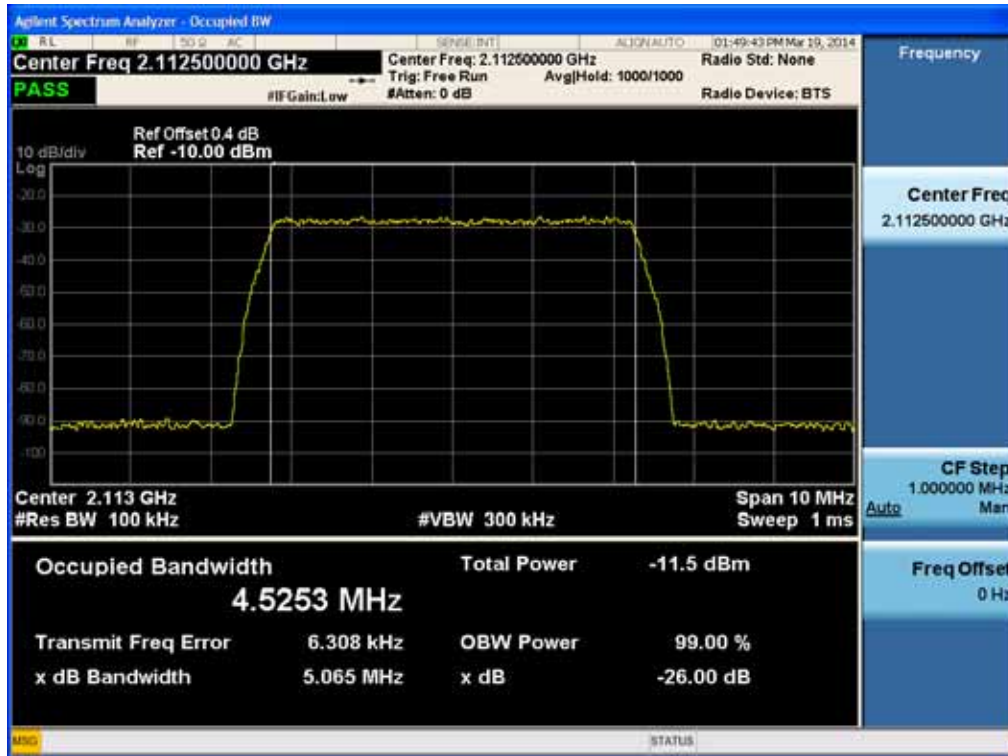
[Output LTE Downlink 20 MHz Middle]



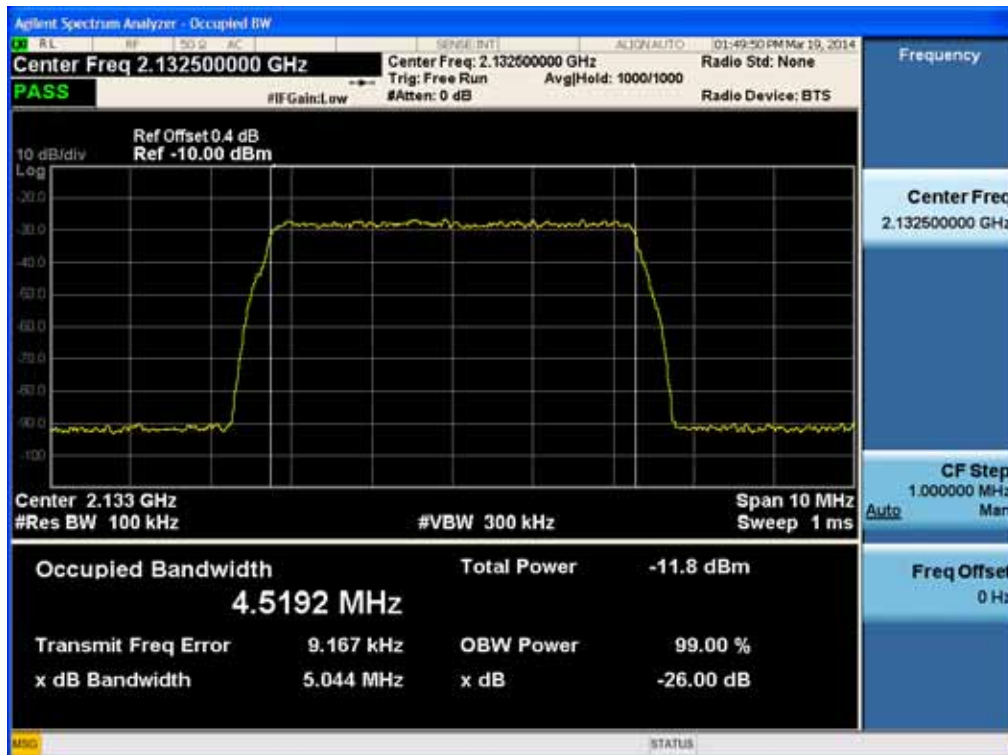
[Output LTE Downlink 20 MHz High]



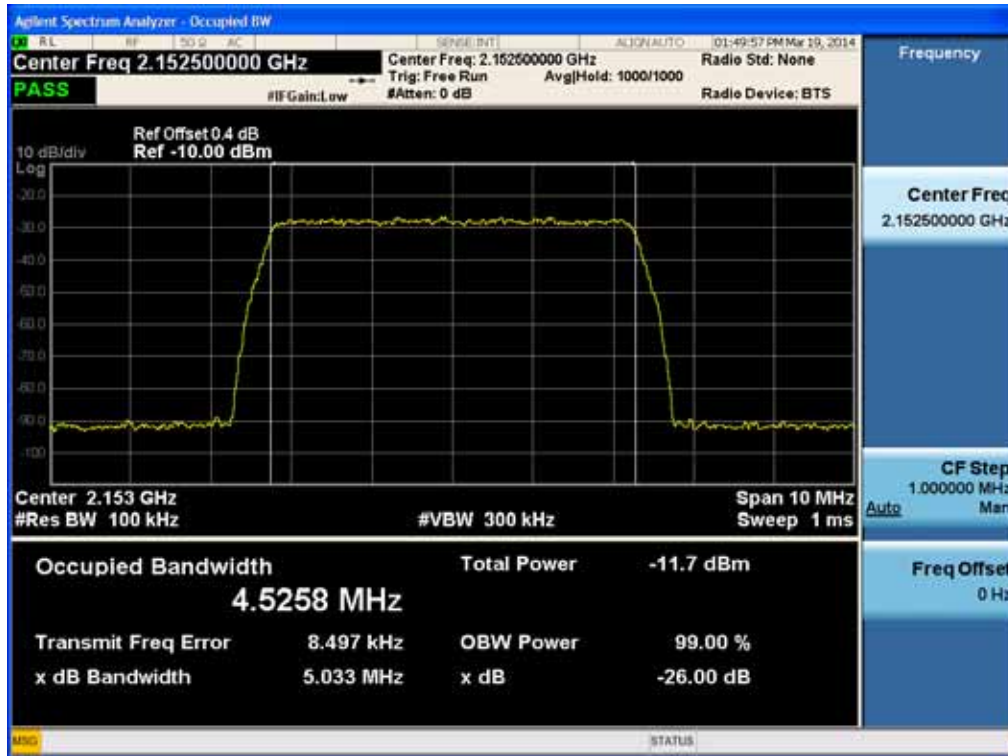
[[Input LTE Downlink 5 MHz Low]]



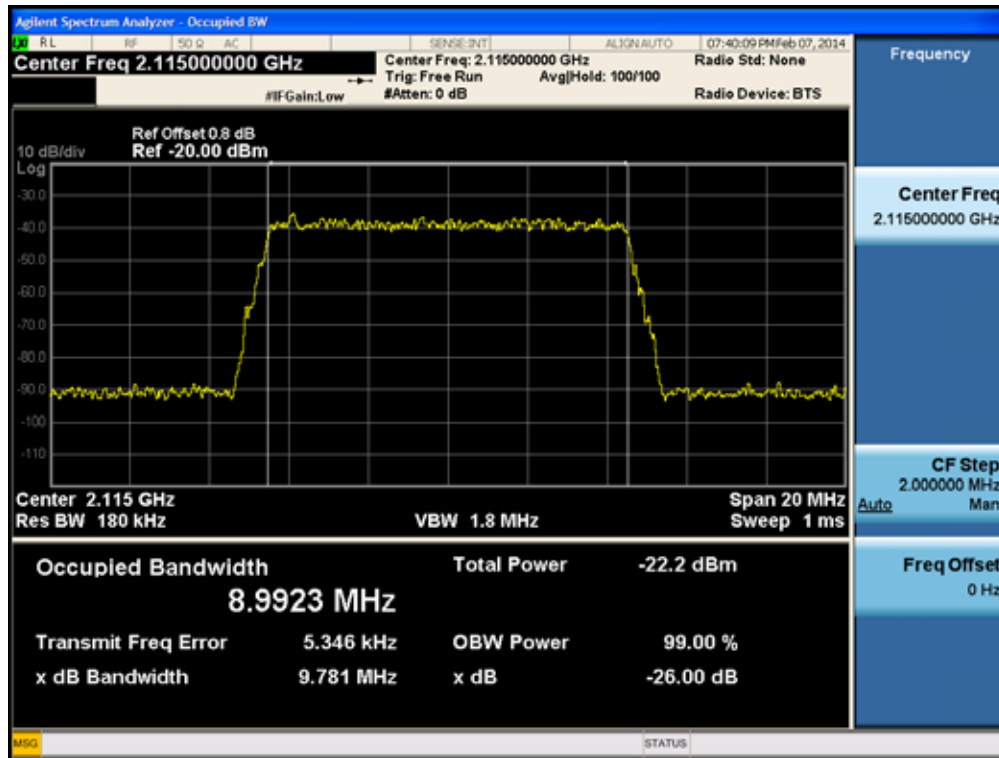
[[Input LTE Downlink 5 MHz Middle]]



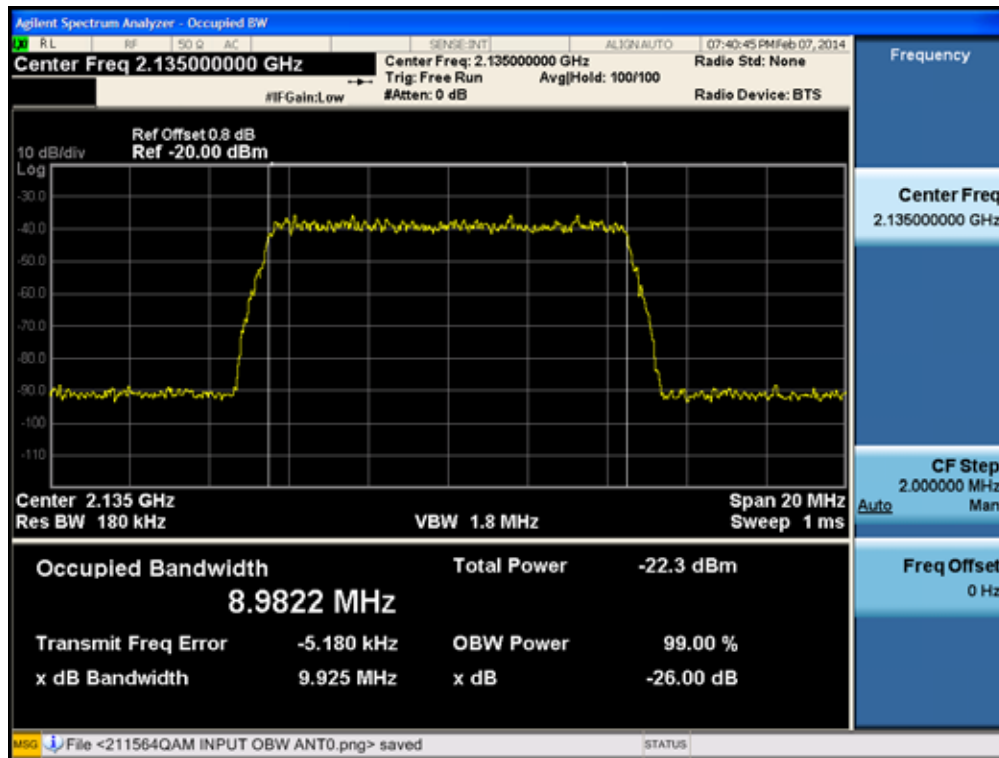
[[Input LTE Downlink 5 MHz High]]



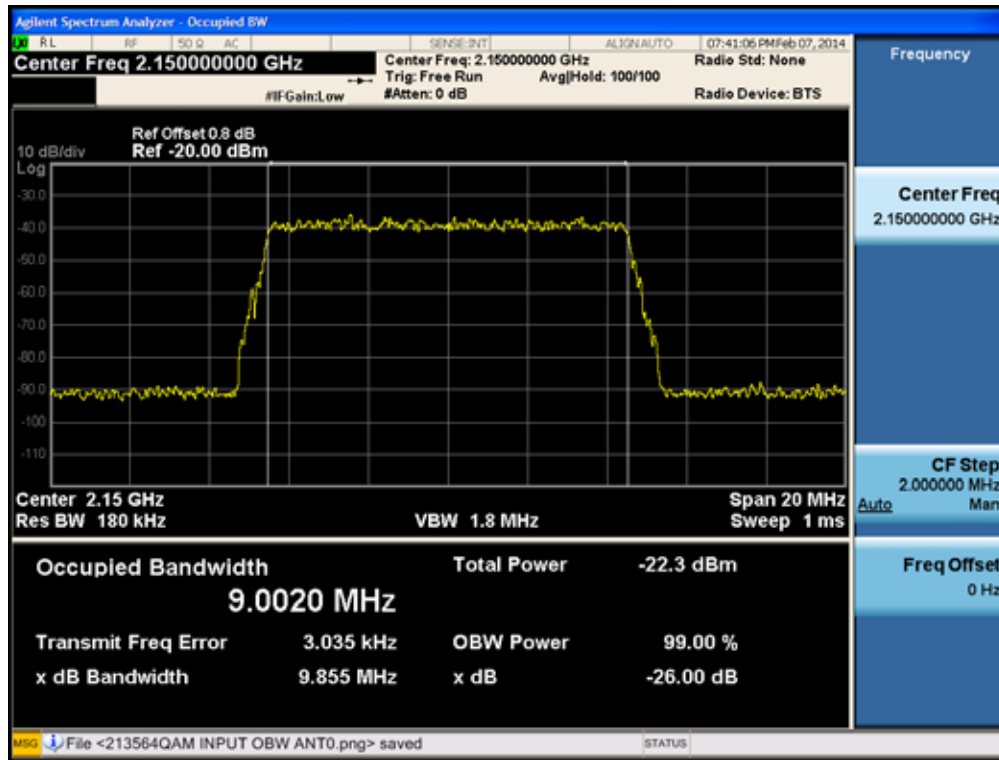
[[Input LTE Downlink 10 MHz Low]]



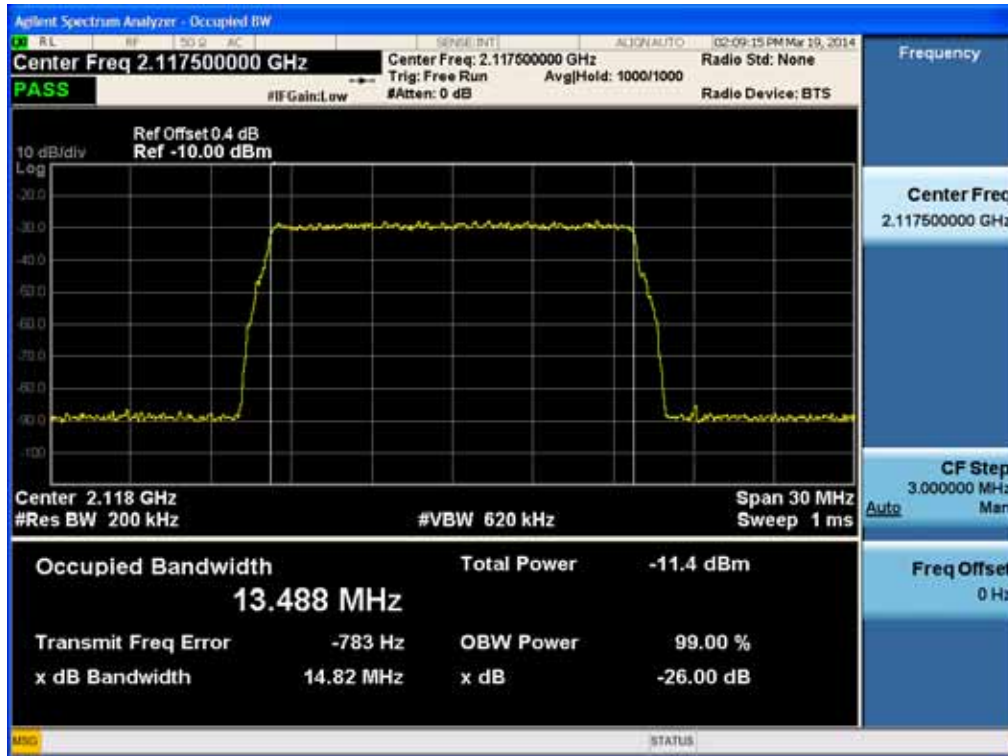
[[Input LTE Downlink 10 MHz Middle]]



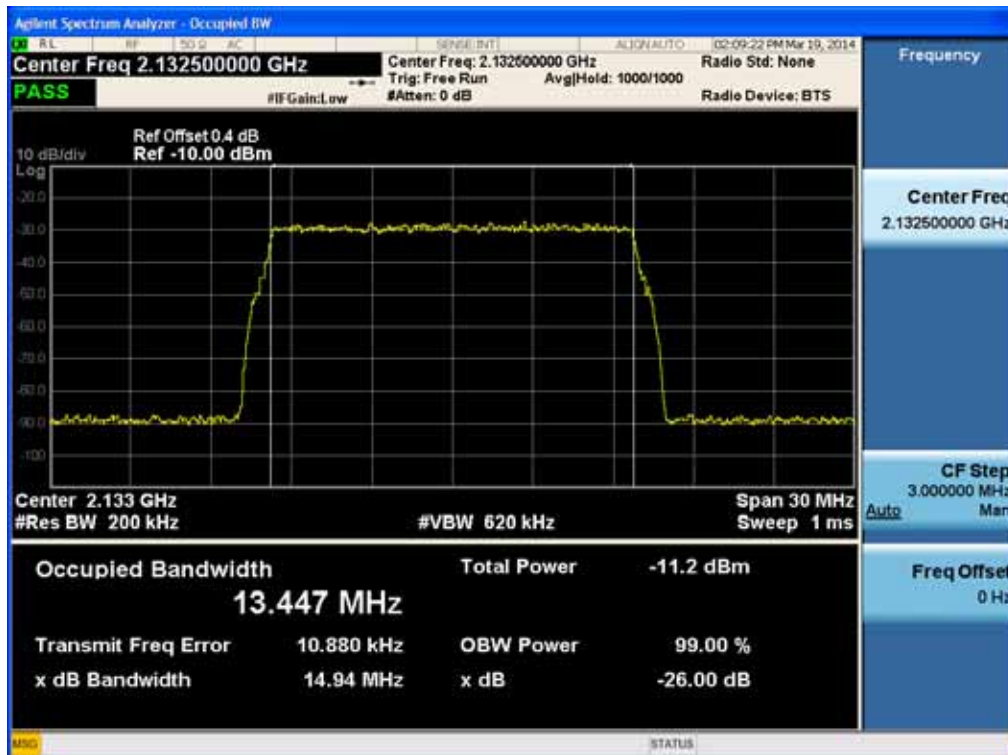
[[Input LTE Downlink 10 MHz High]]



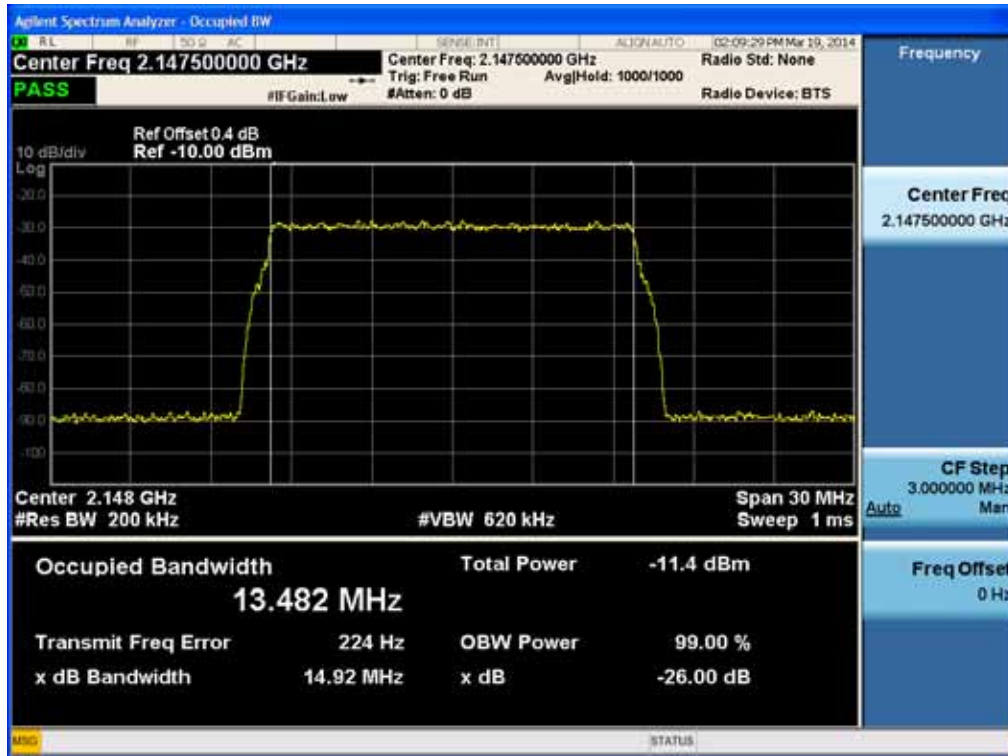
[[Input LTE Downlink 15 MHz Low]]



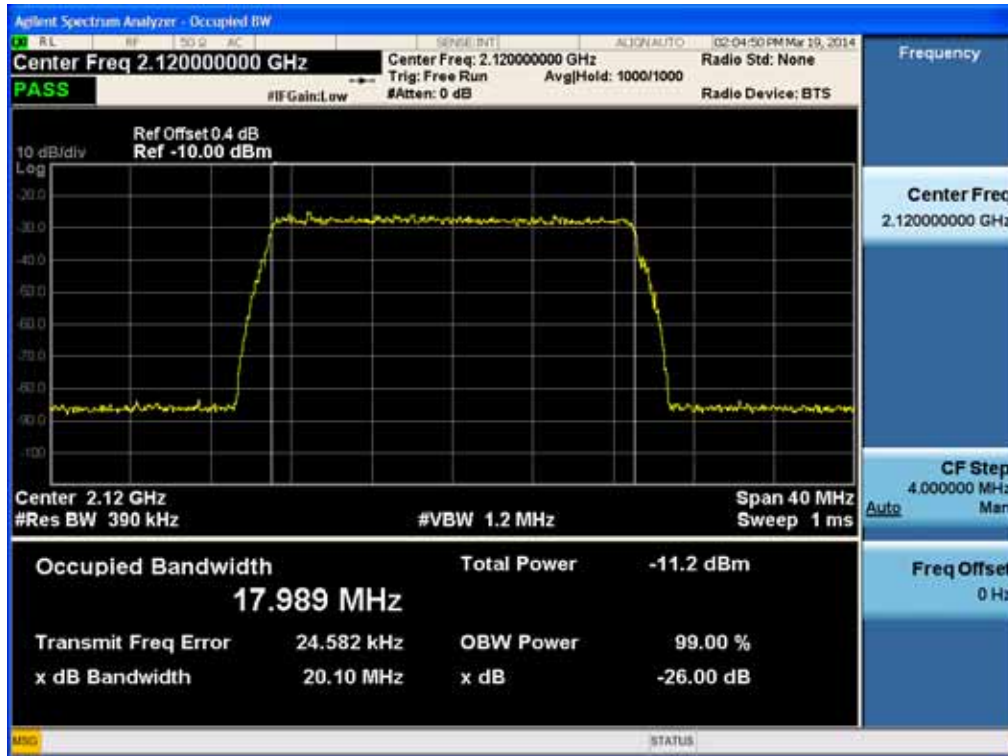
[[Input LTE Downlink 15 MHz Middle]]



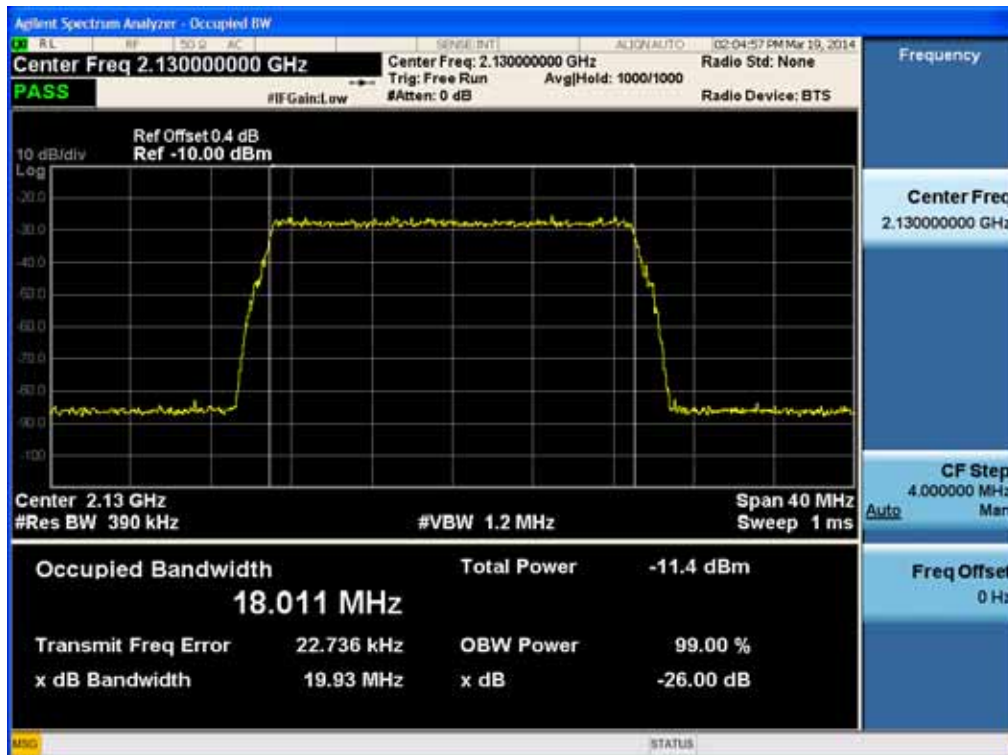
[[Input LTE Downlink 15 MHz High]]



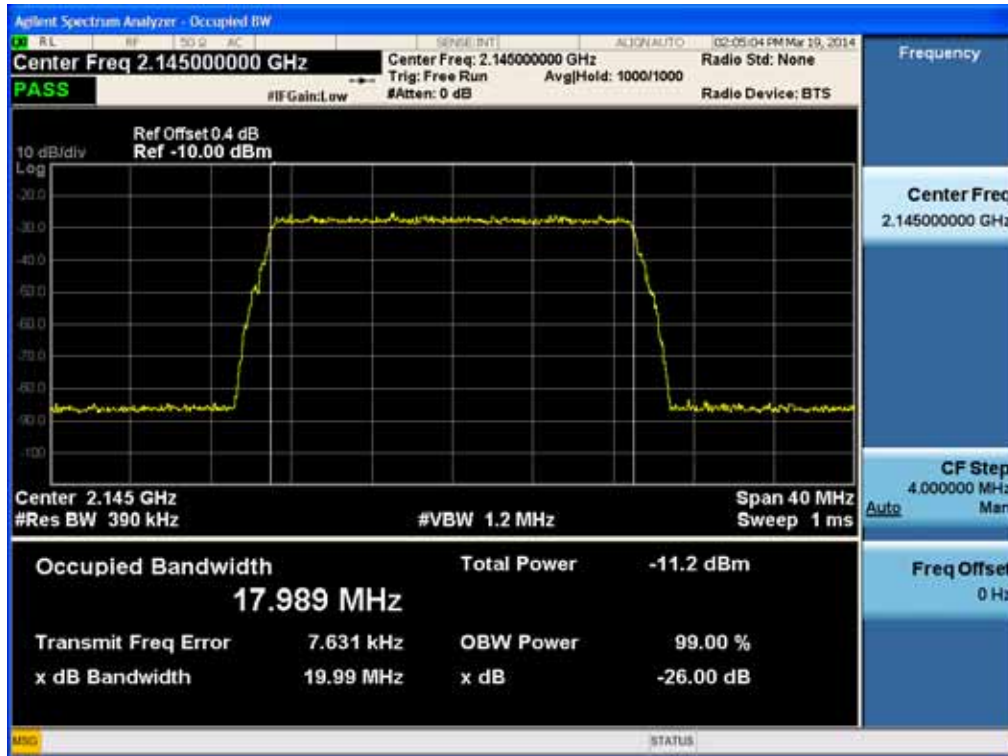
[[Input LTE Downlink 20 MHz Low]]



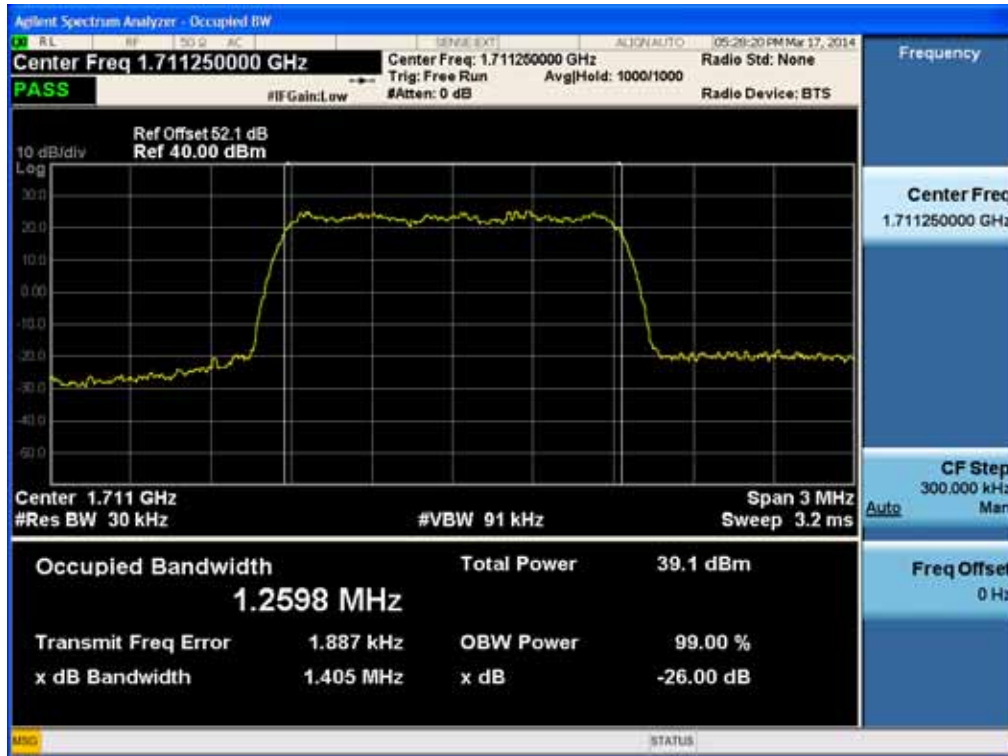
[[Input LTE Downlink 20 MHz Middle]]



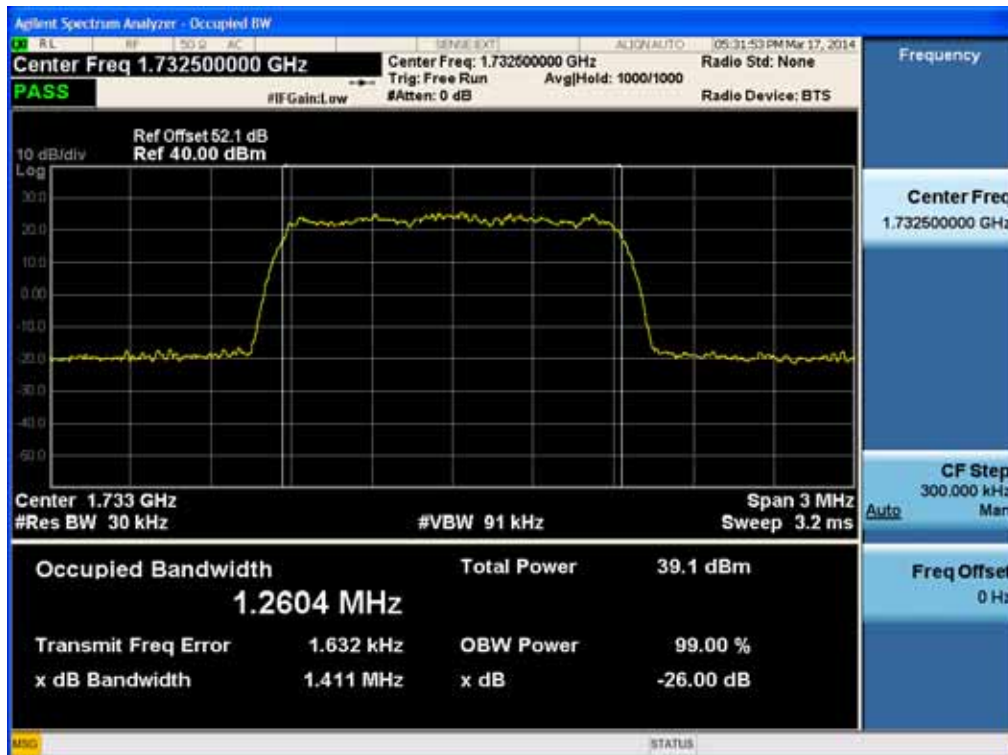
[[Input LTE Downlink 20 MHz High]]



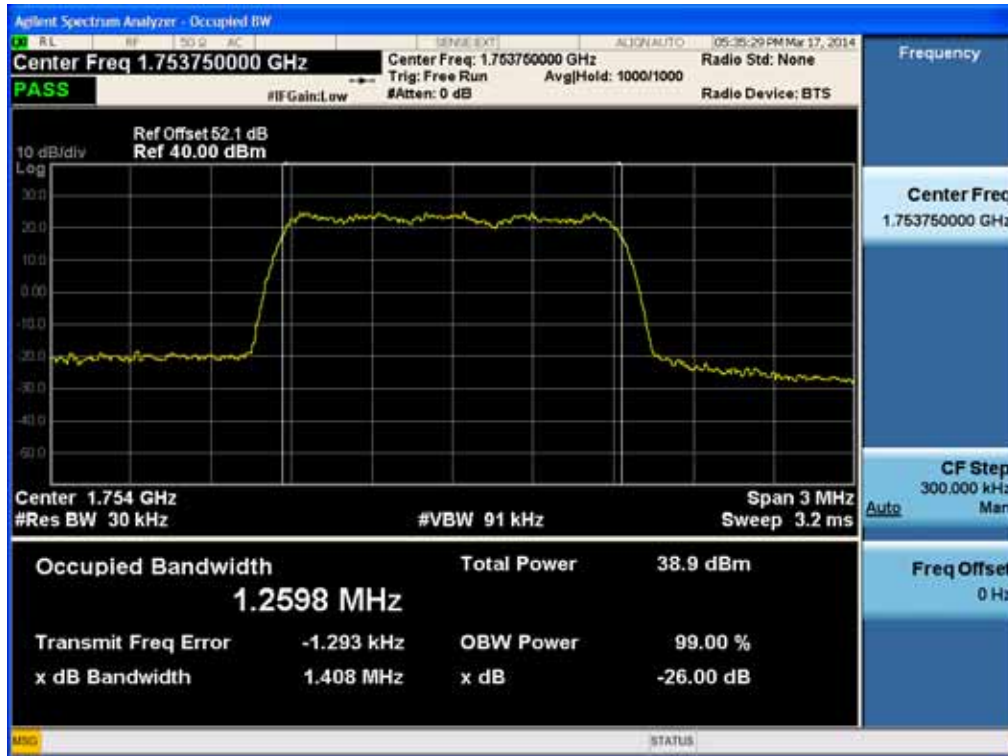
[Output CDMA Uplink Low]



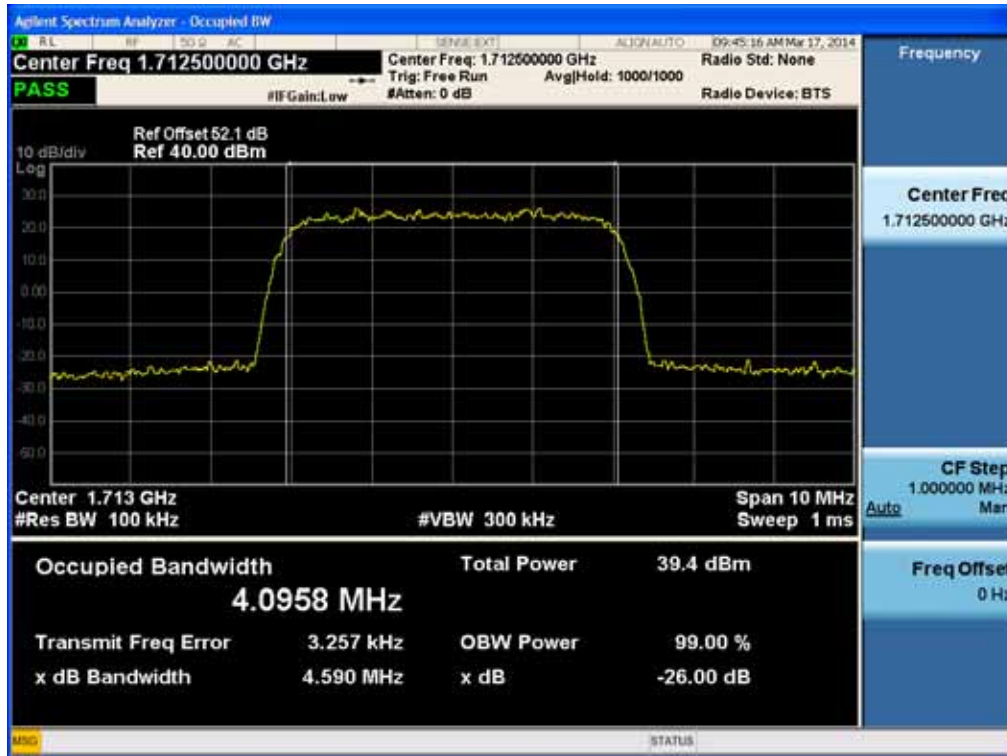
[Output CDMA Uplink Middle]



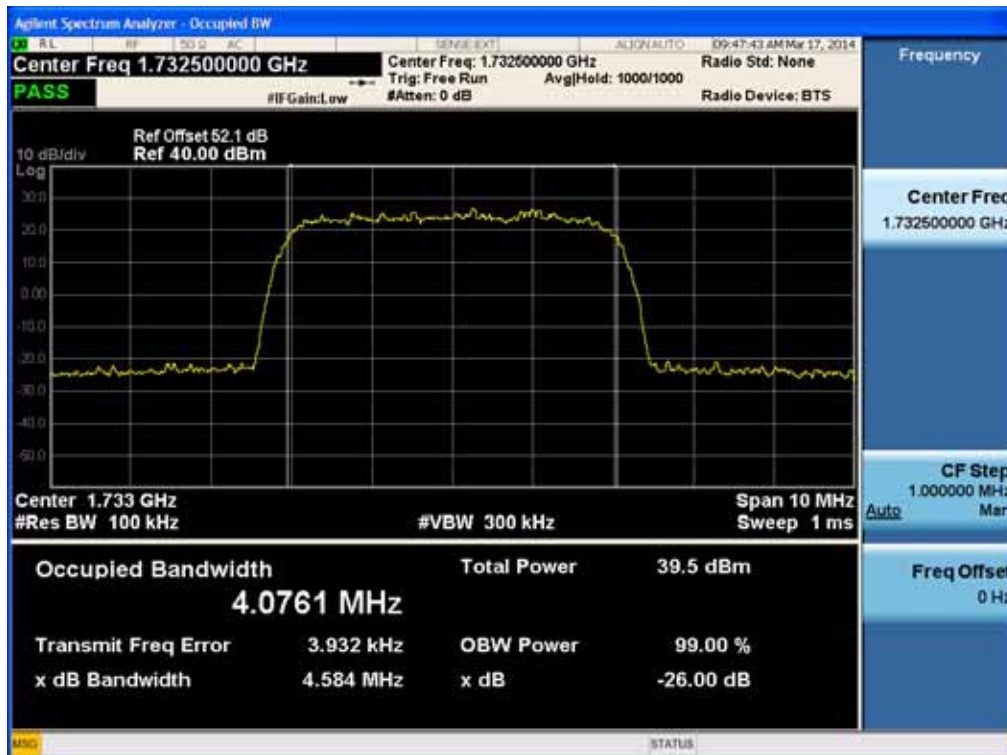
[Output CDMA Uplink High]



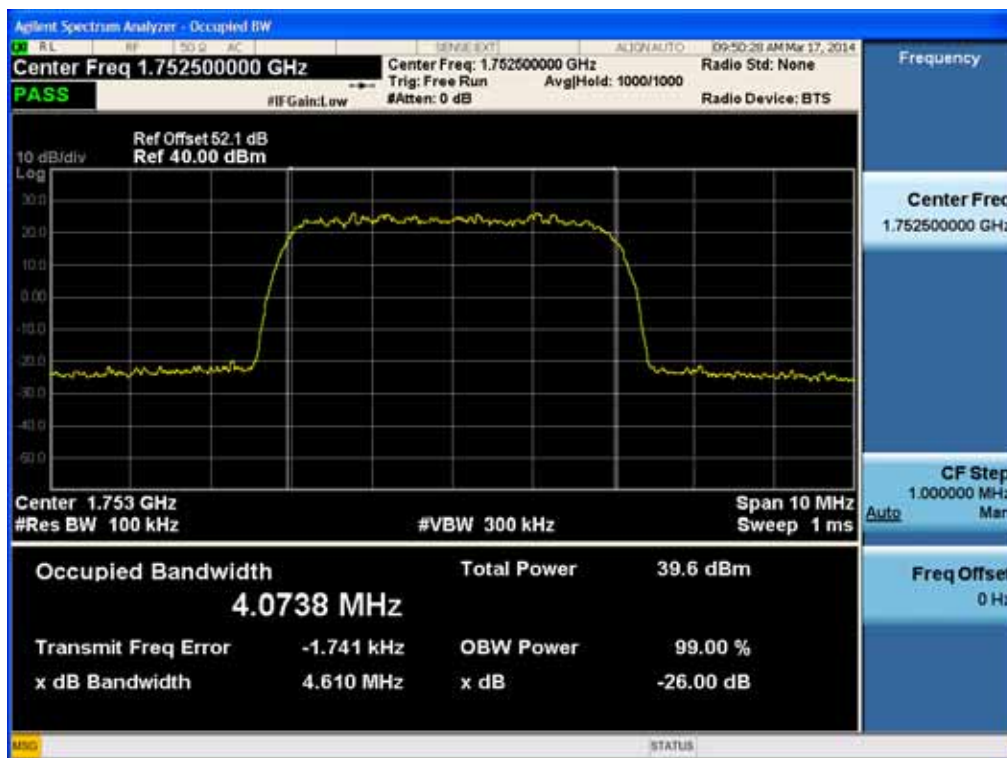
[Output WCDMA Uplink Low]



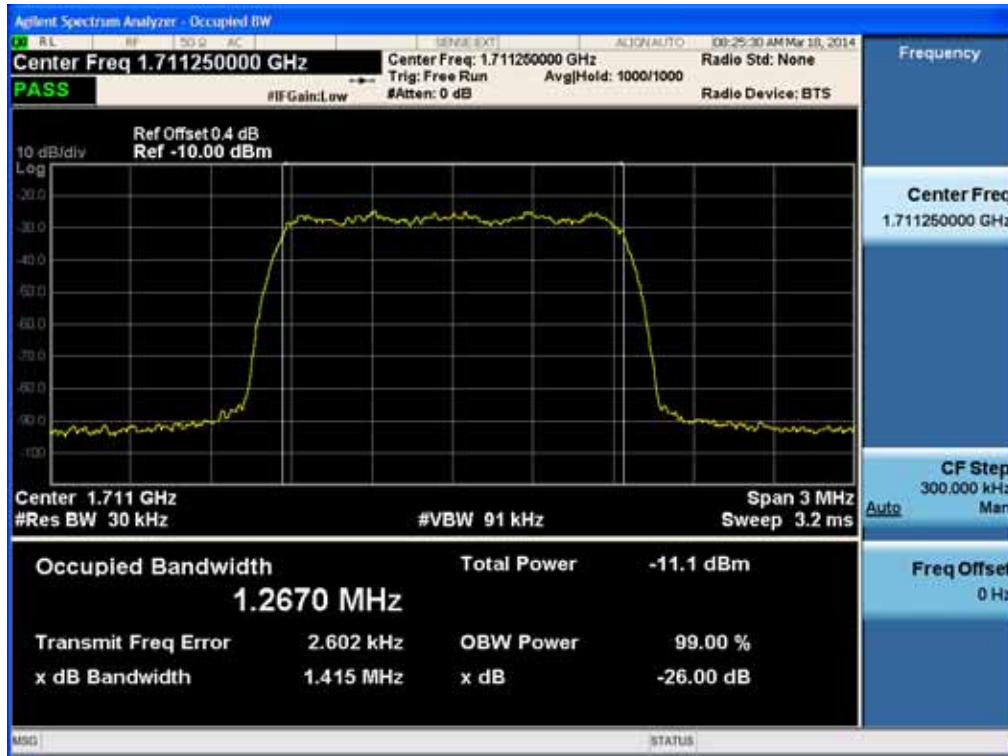
[Output WCDMA Uplink Middle]



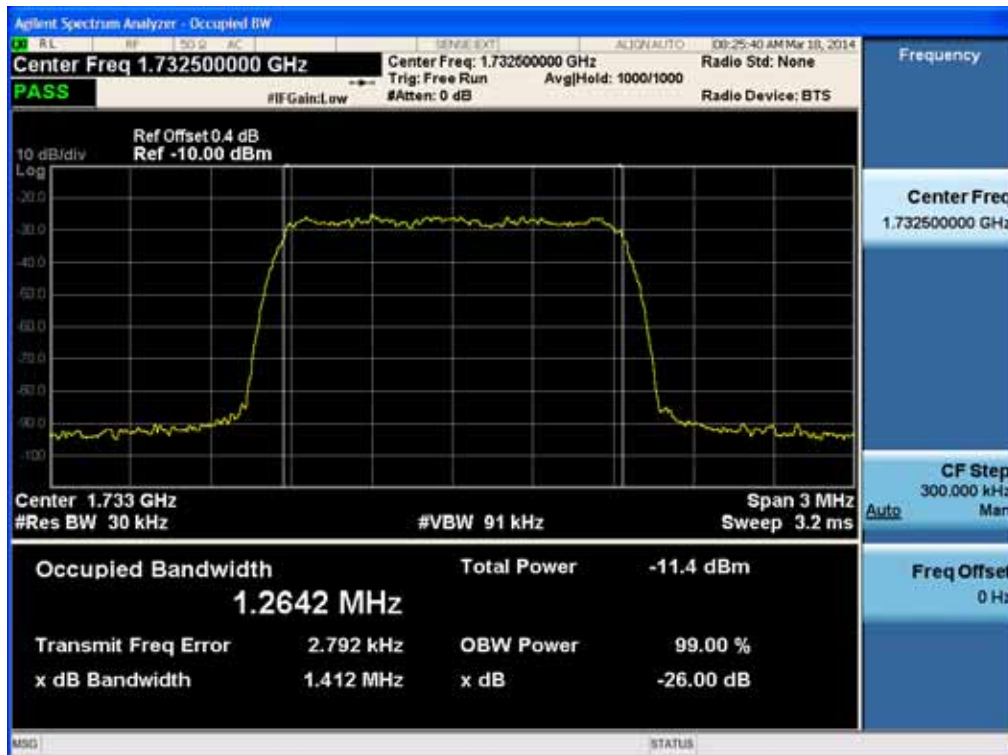
[Output WCDMA Uplink High]



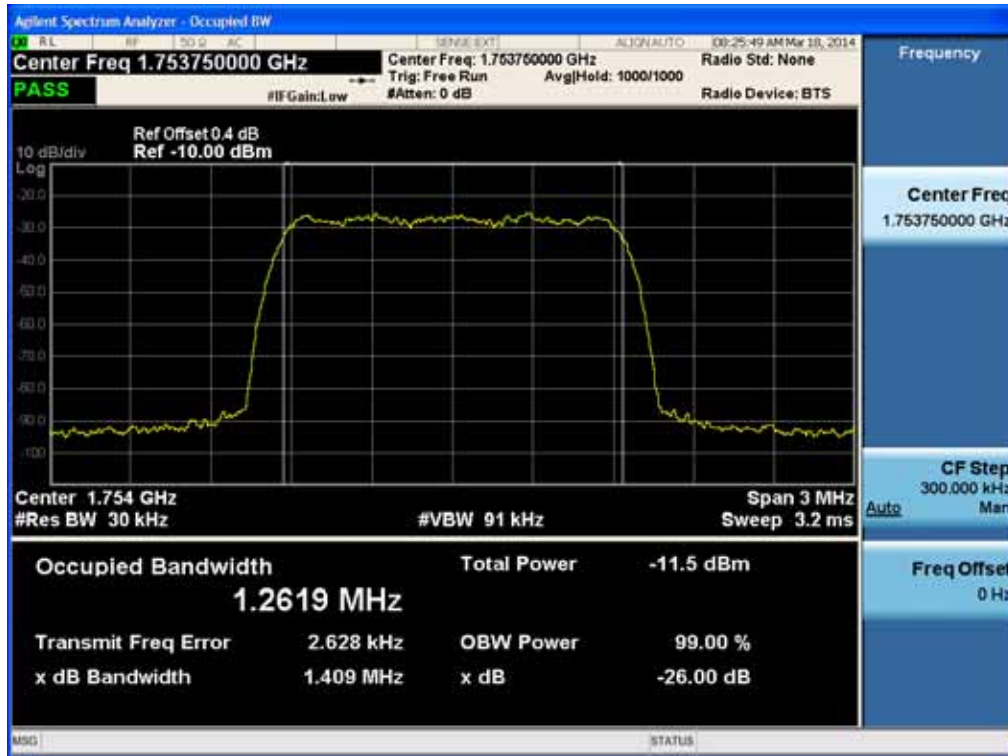
[[Input CDMA Uplink Low]]



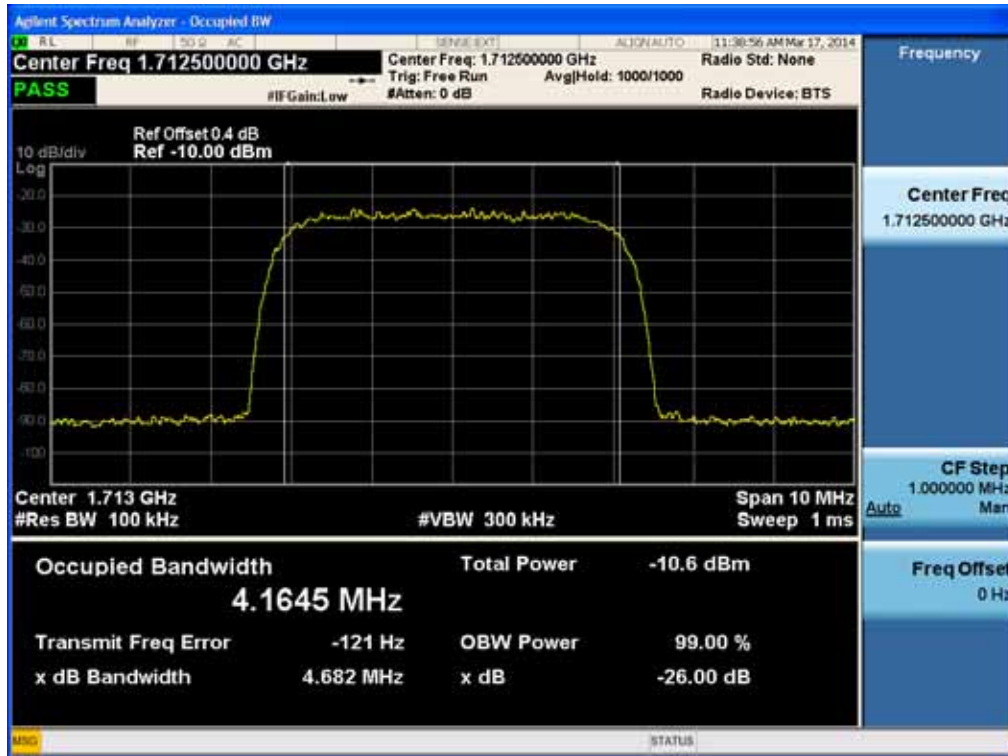
[[Input CDMA Uplink Middle]]



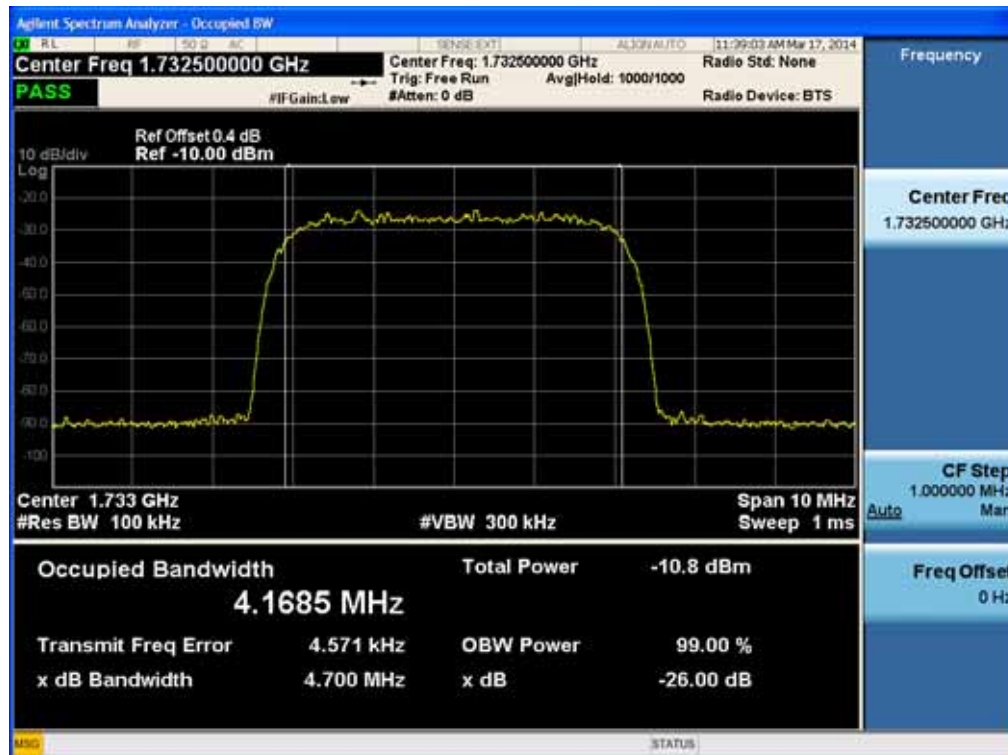
[[Input CDMA Uplink High]]



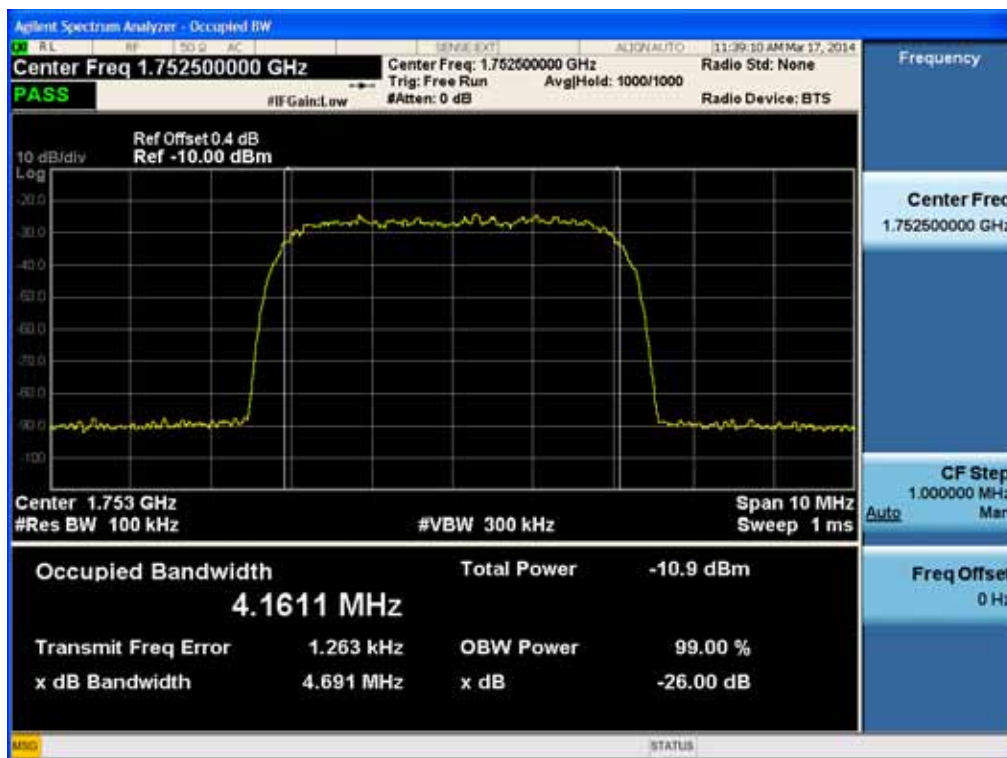
[[Input WCDMA Uplink Low]]



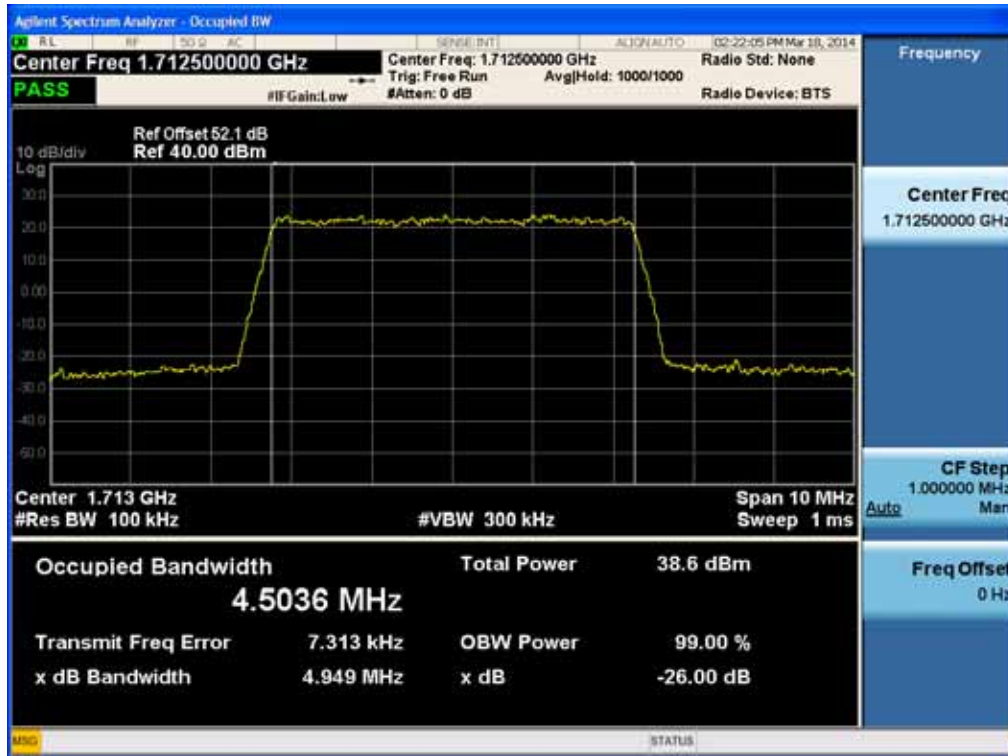
[[Input WCDMA Uplink Middle]]



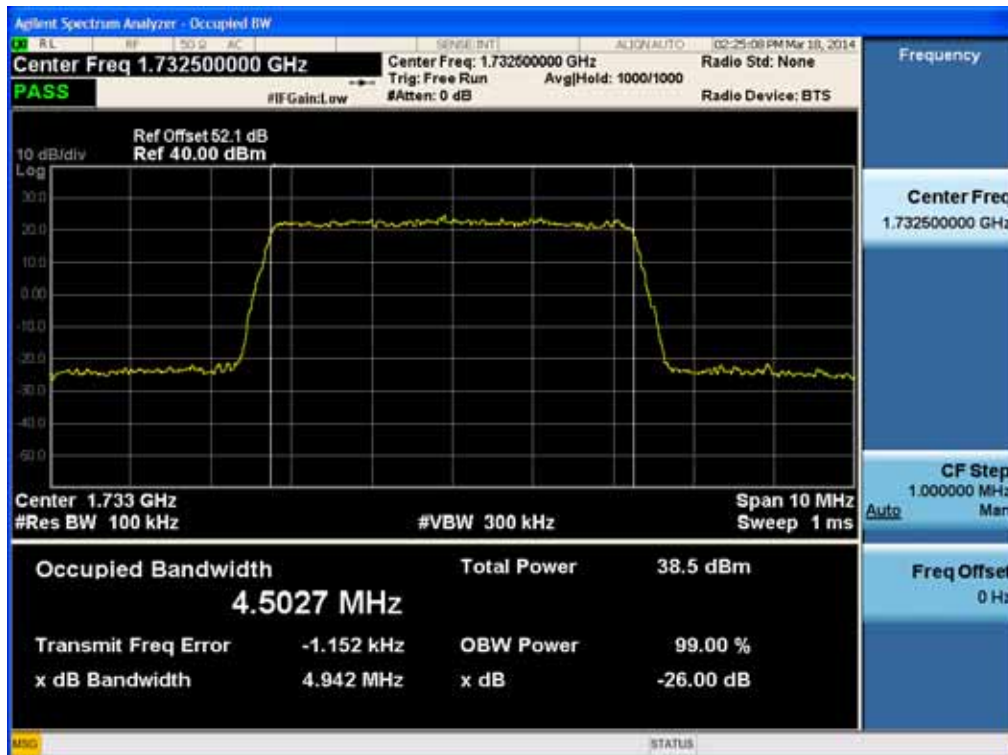
[[Input WCDMA Uplink High]]



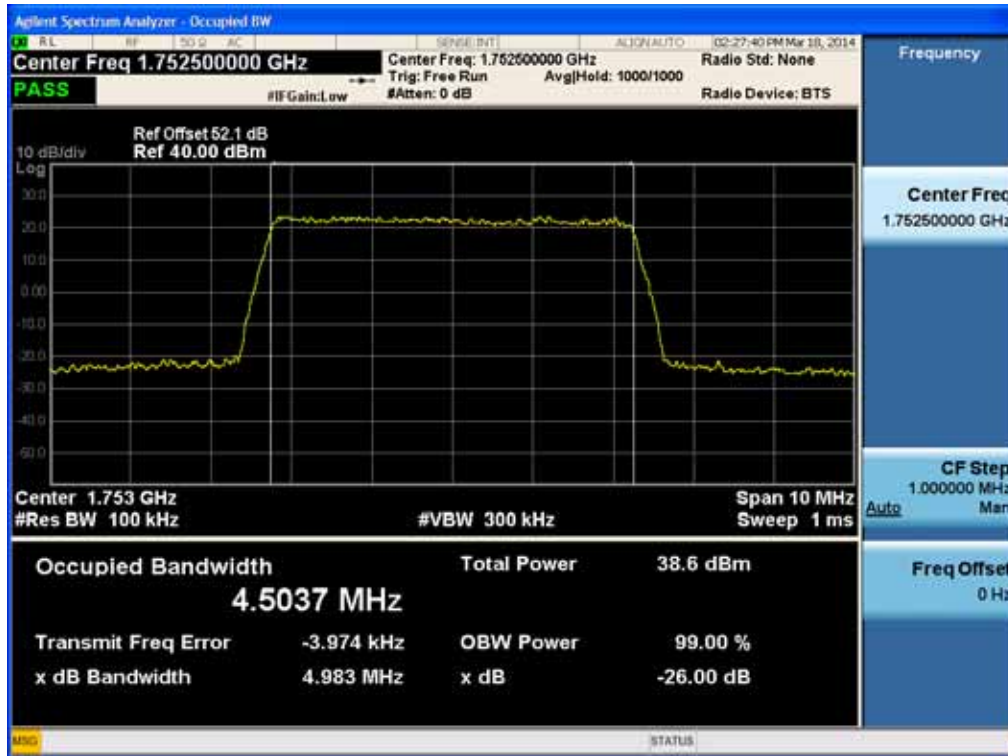
[Output LTE Uplink 5 MHz Low]



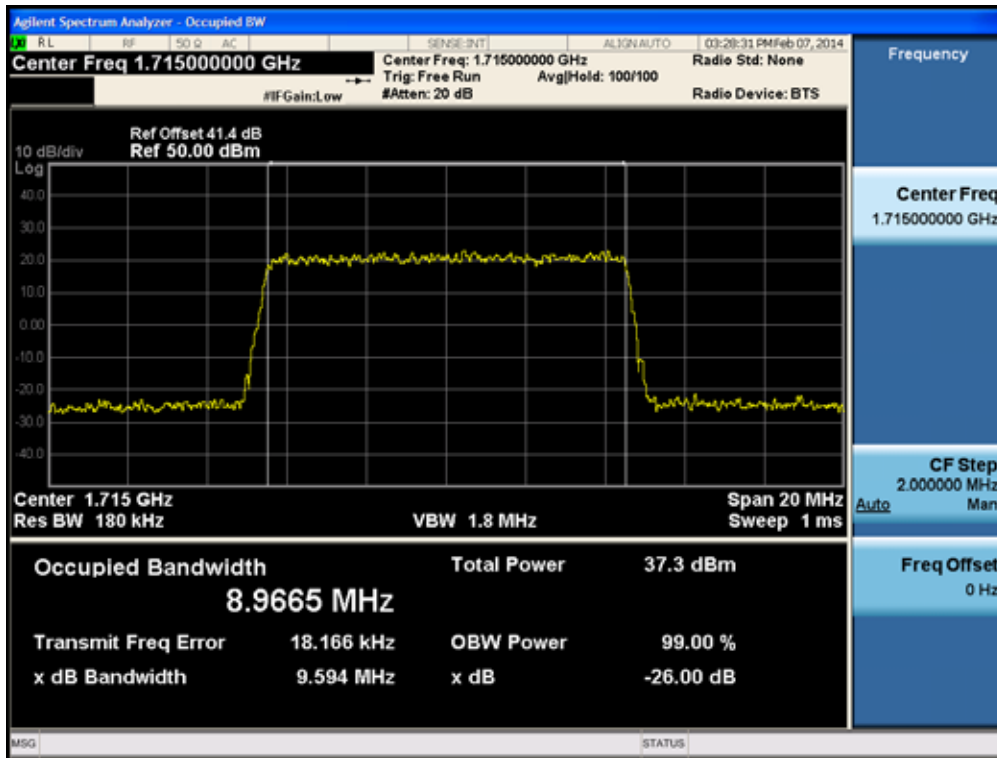
[Output LTE Uplink 5 MHz Middle]



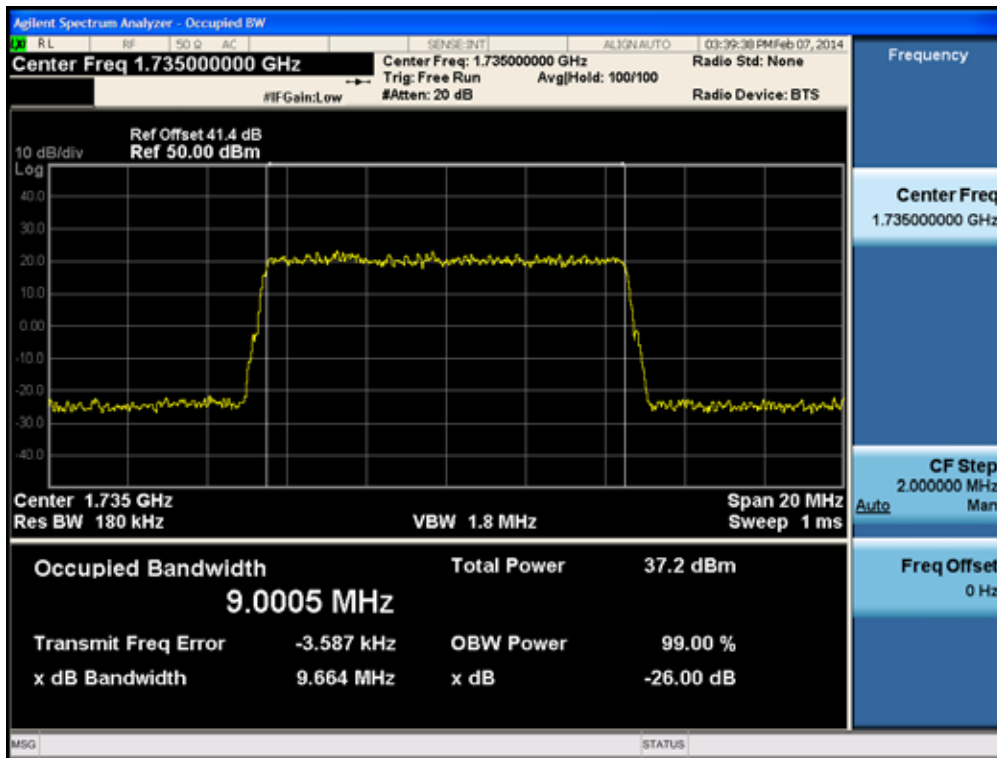
[Output LTE Uplink 5 MHz High]



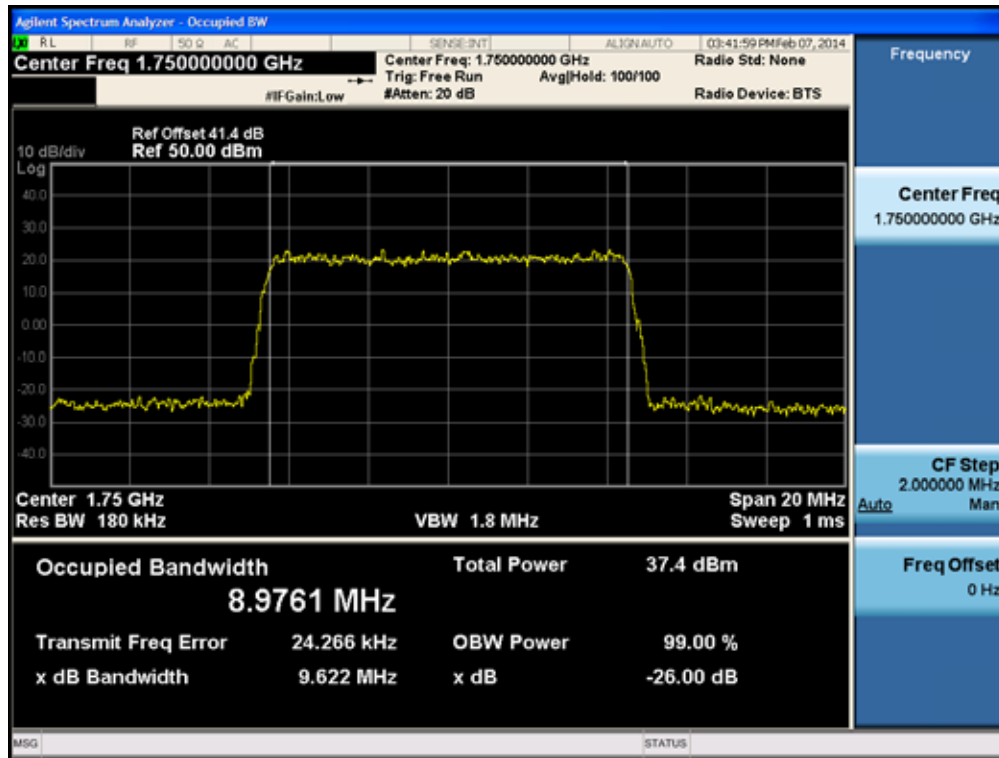
[Output LTE Uplink 10 MHz Low]



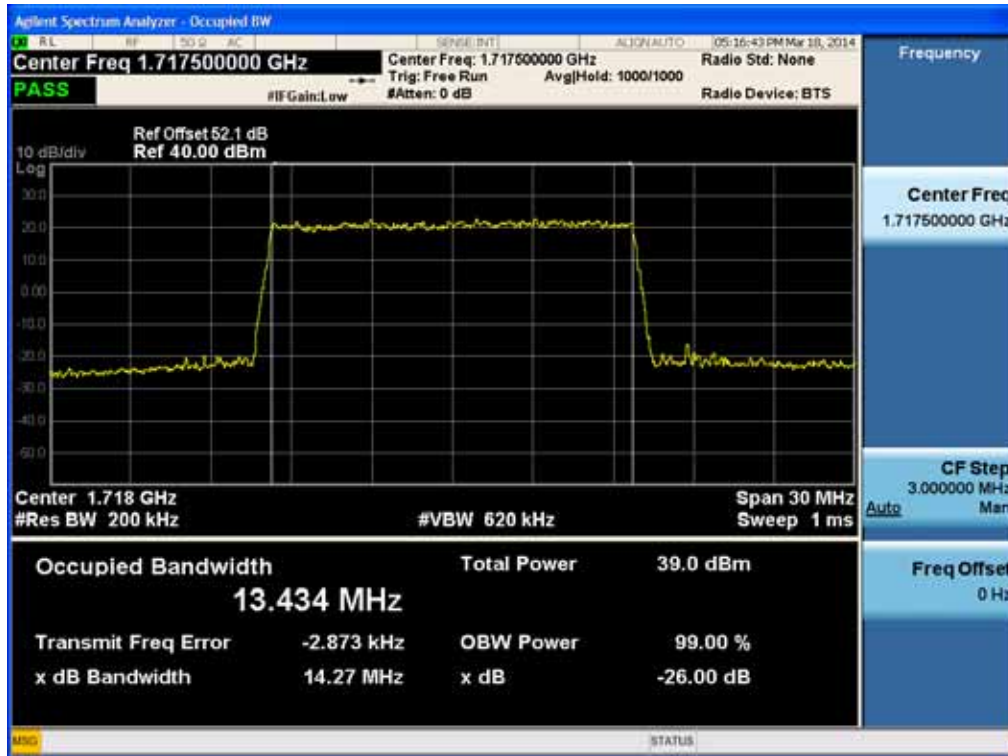
[Output LTE Uplink 10 MHz Middle]



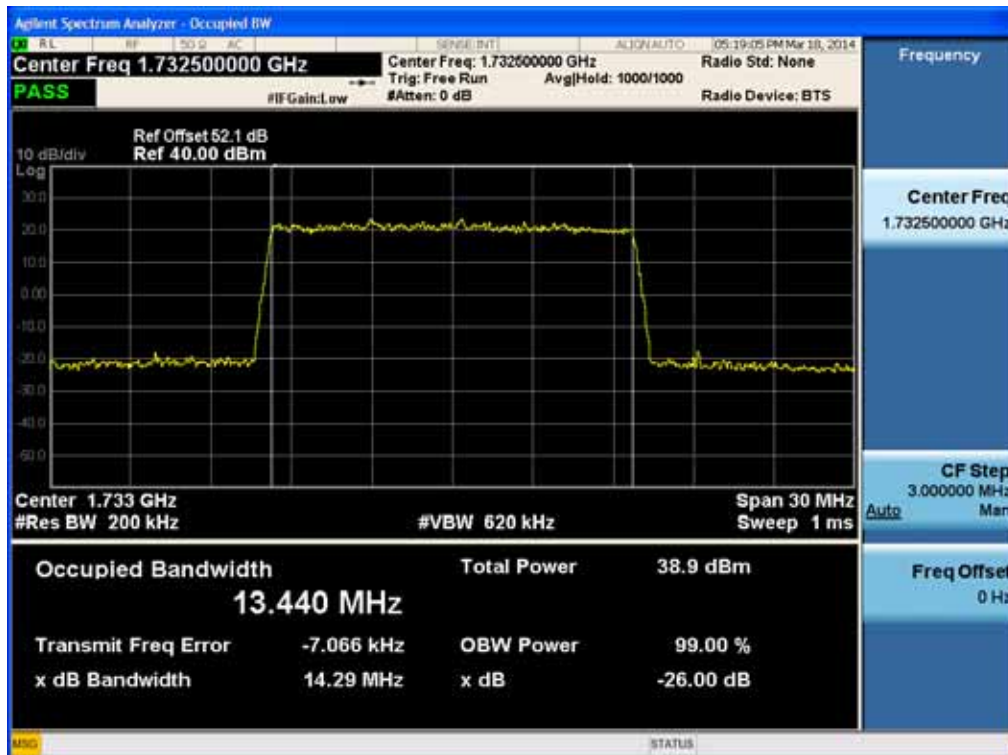
[Output LTE Uplink 10 MHz High]



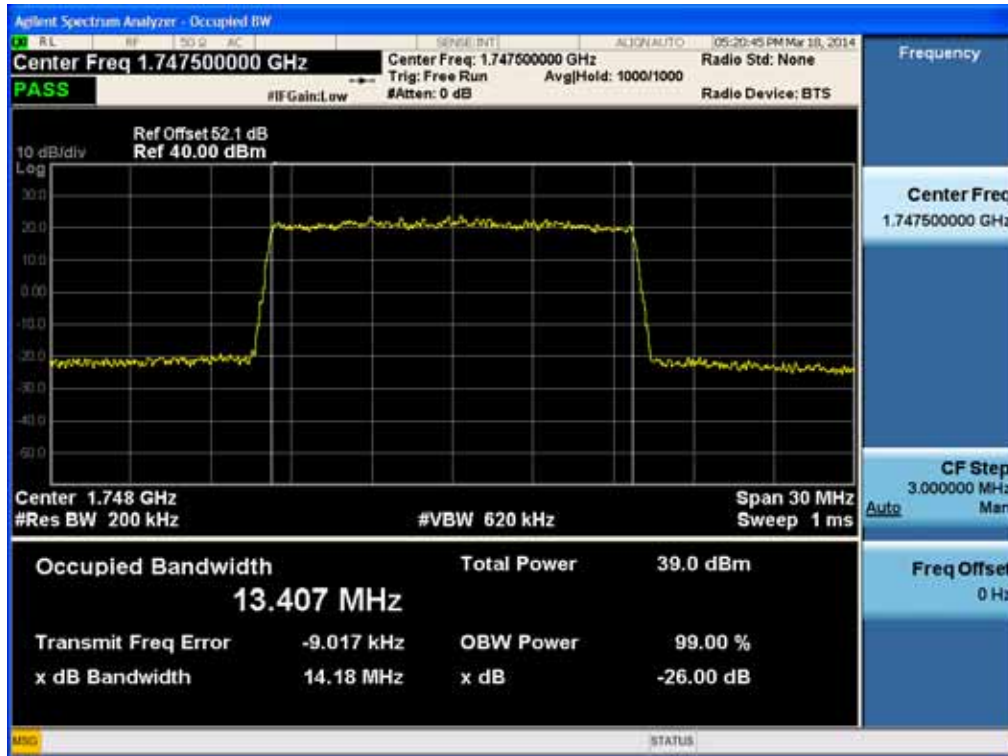
[Output LTE Uplink 15 MHz Low]



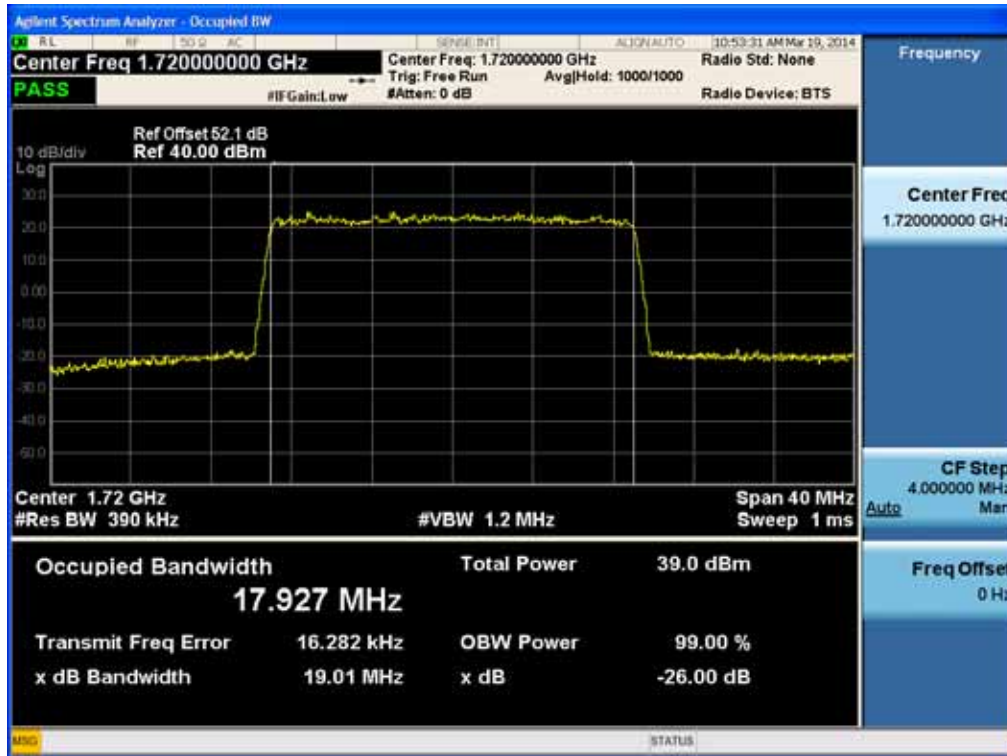
[Output LTE Uplink 15 MHz Middle]



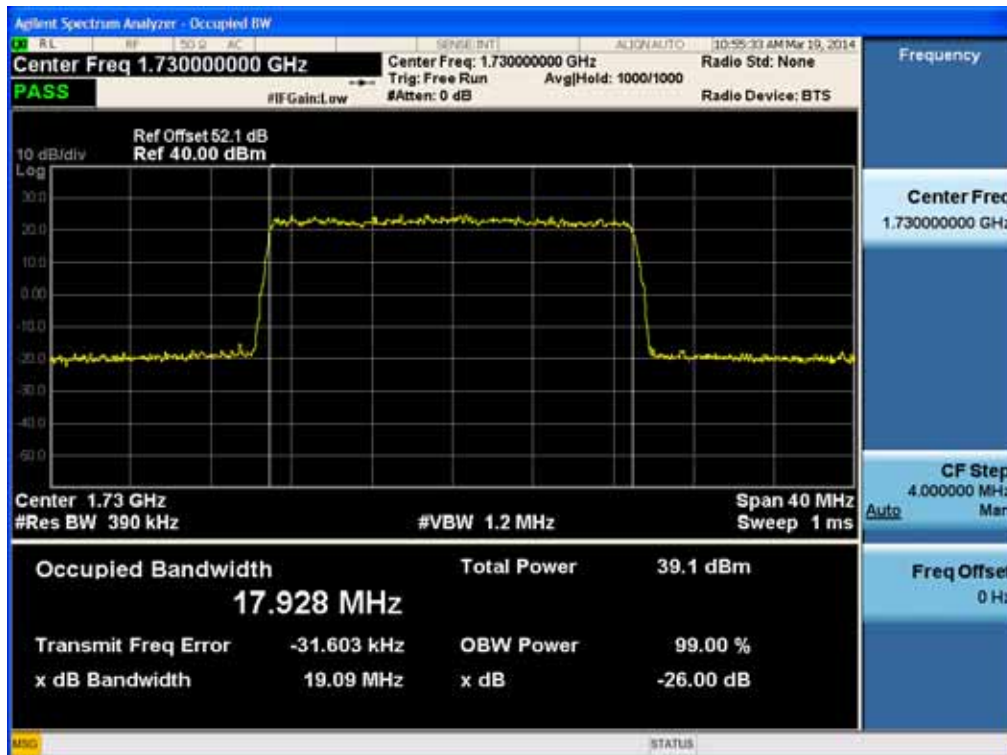
[Output LTE Uplink 15 MHz High]



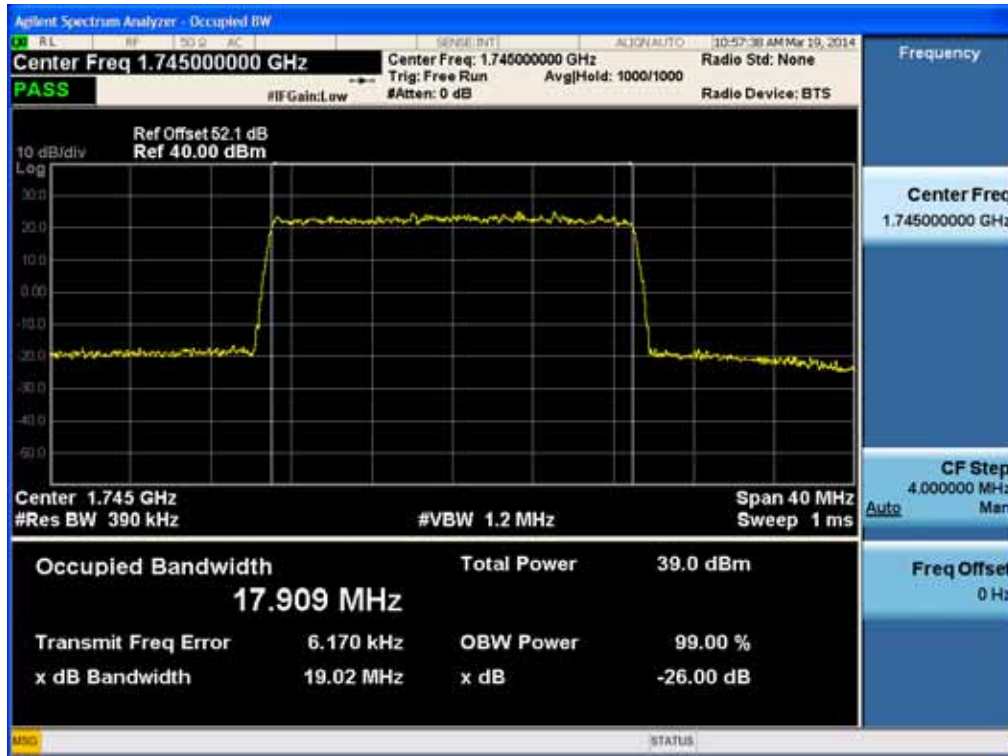
[Output LTE Uplink 20 MHz Low]



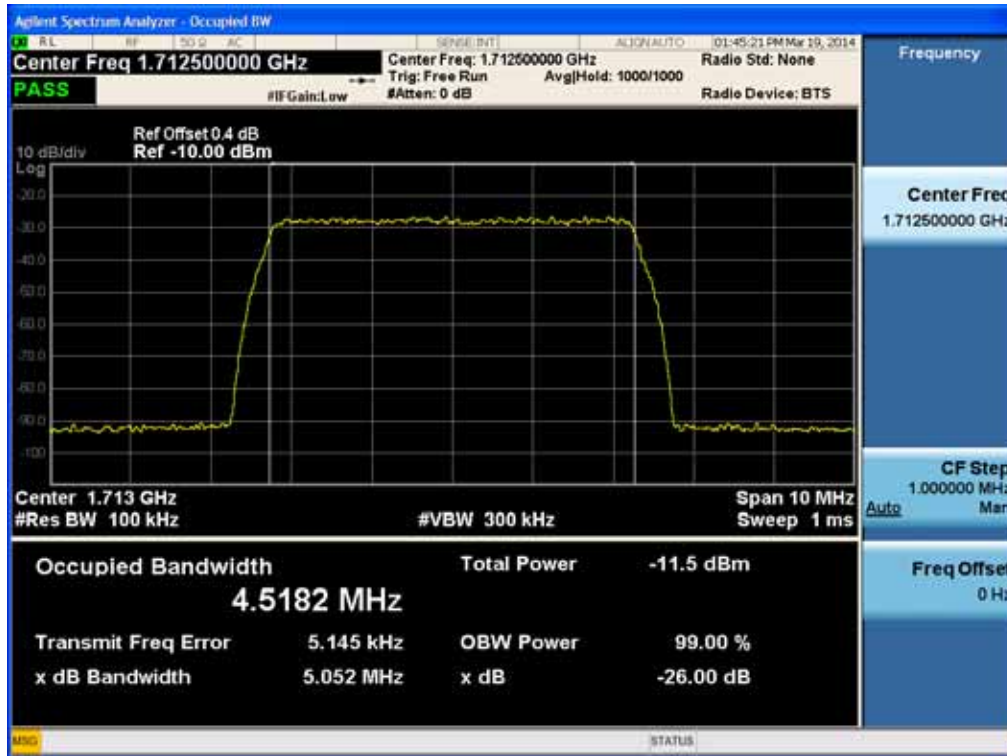
[Output LTE Uplink 20 MHz Middle]



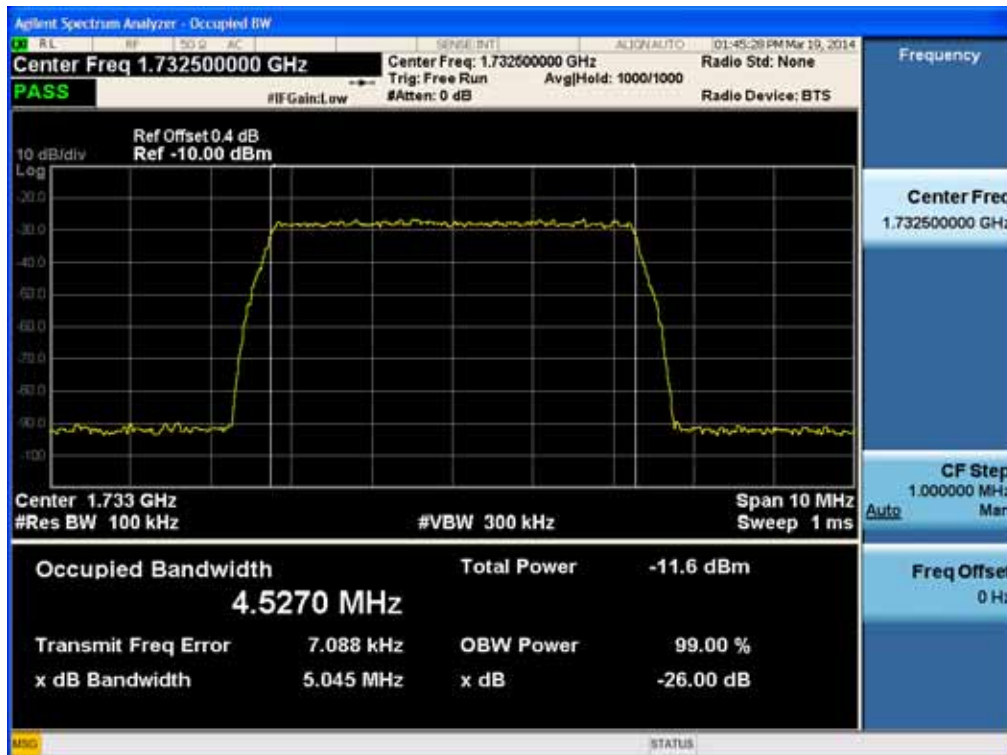
[Output LTE Uplink 20 MHz High]



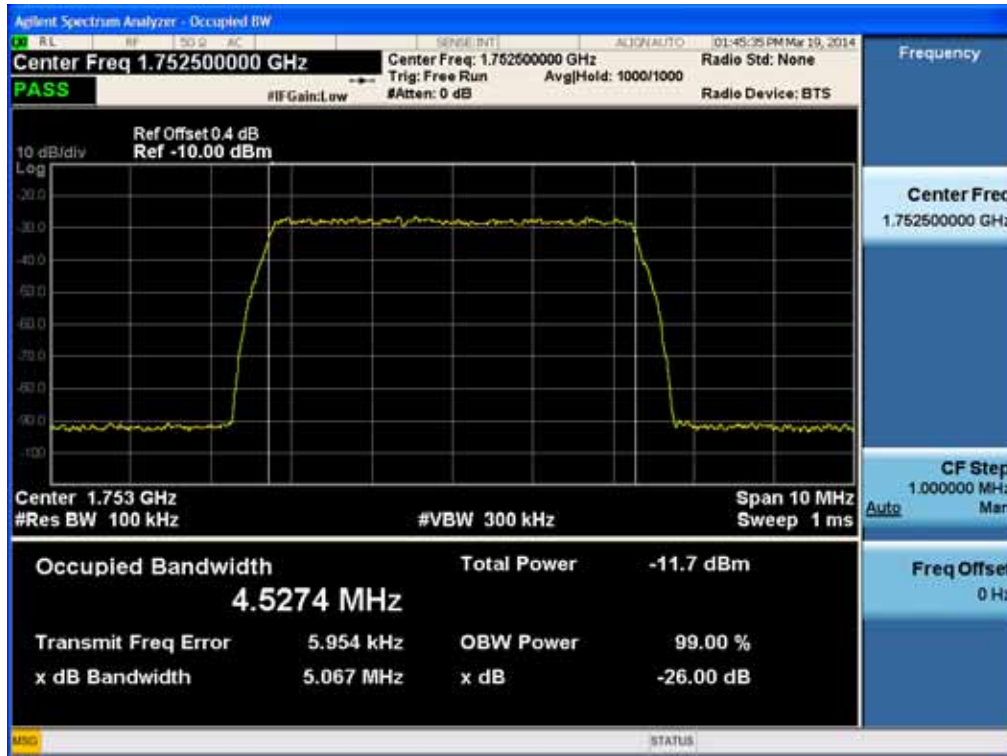
[[Input LTE Uplink 5 MHz Low]]



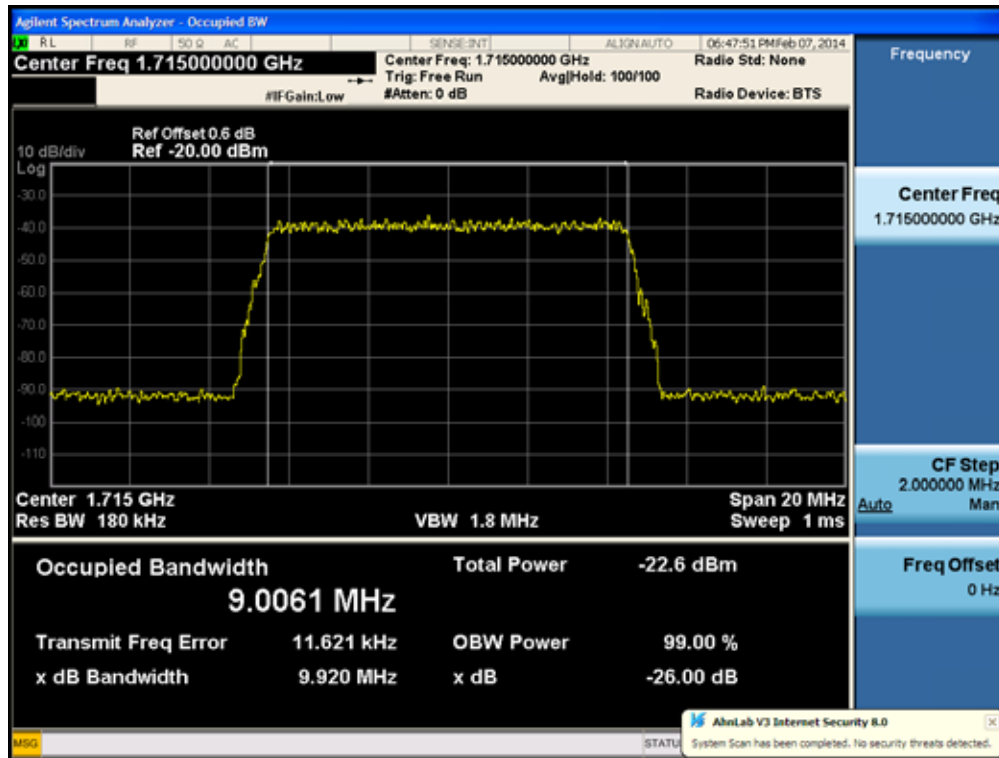
[[Input LTE Uplink 5 MHz Middle]]



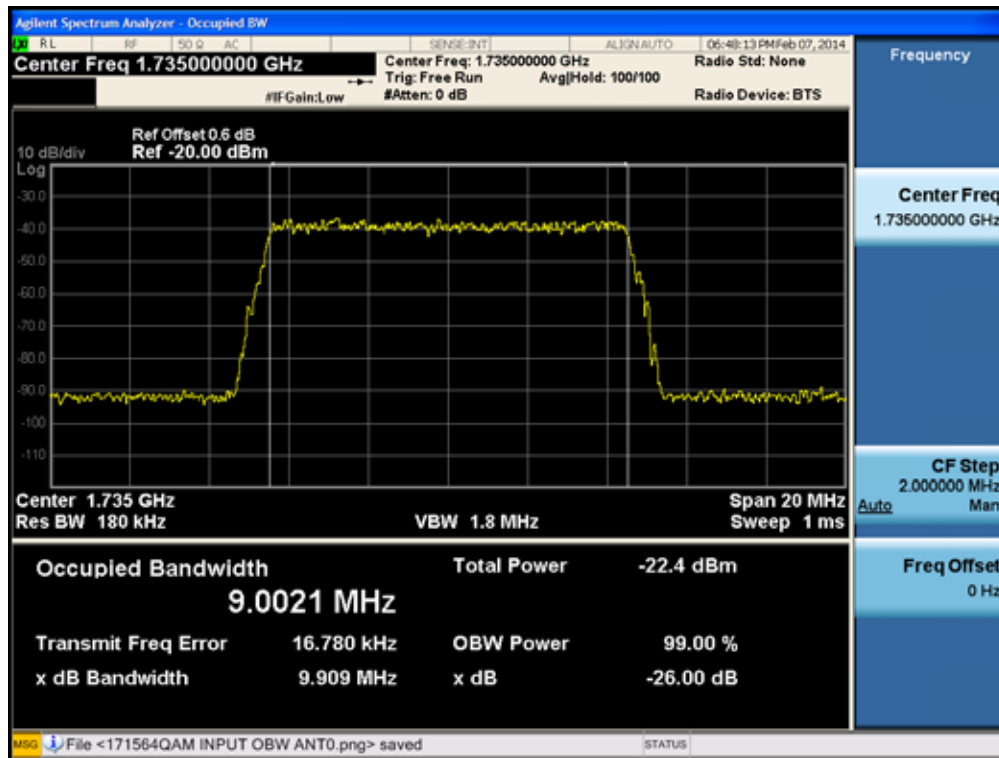
[[Input LTE Uplink 5 MHz High]]



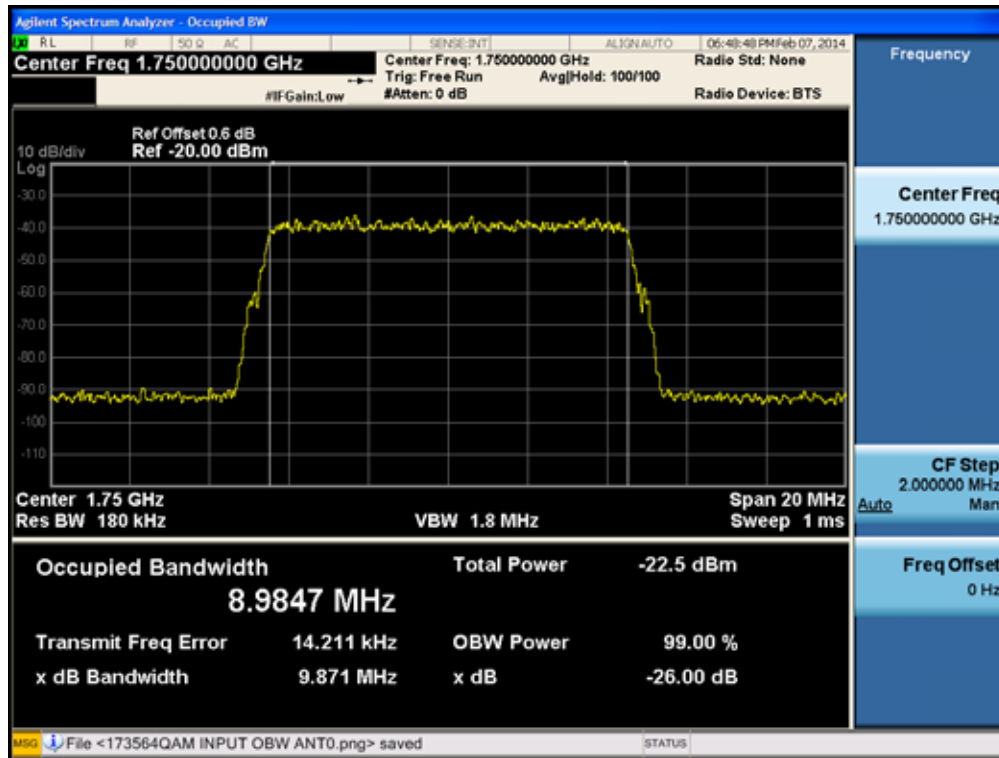
[[Input LTE Uplink 10 MHz Low]]



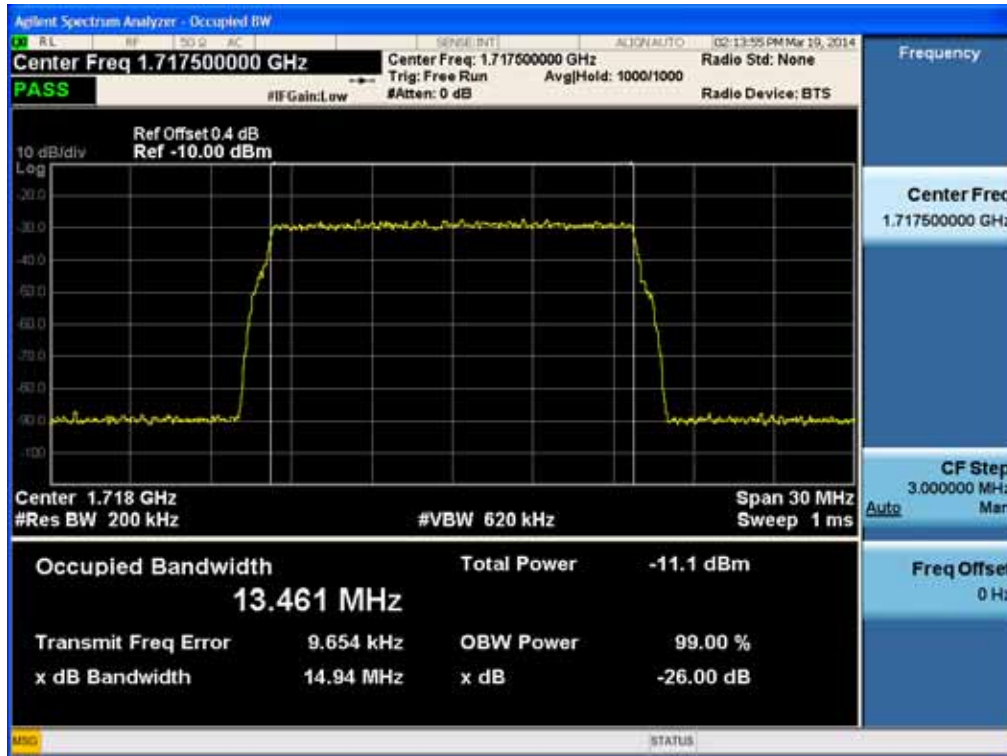
[[Input LTE Uplink 10 MHz Middle]]



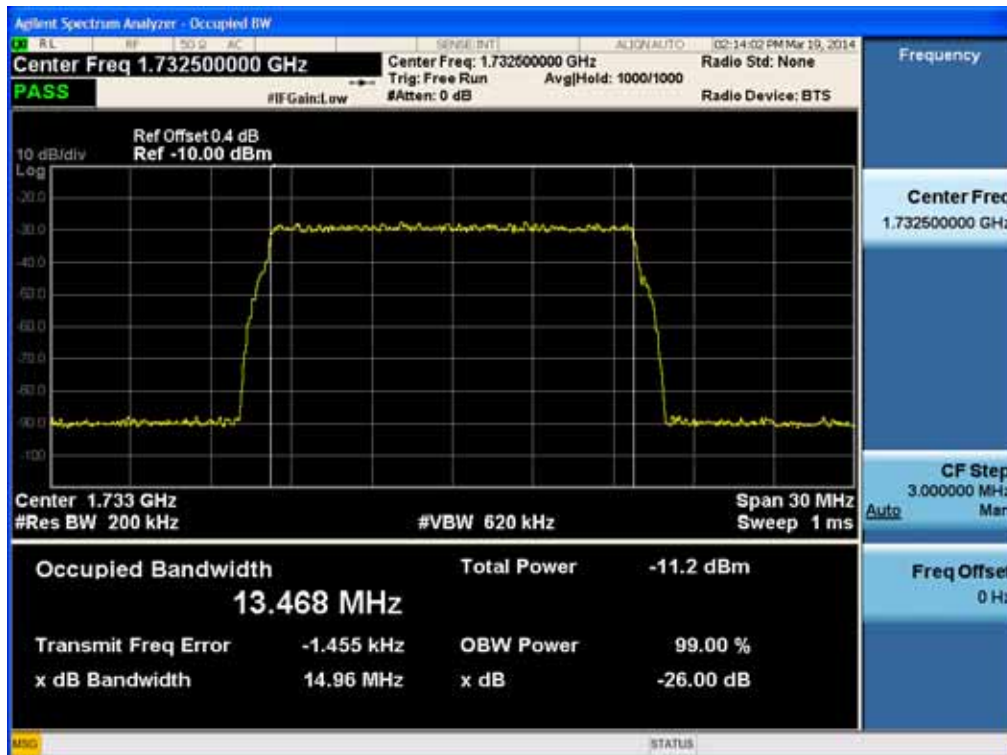
[[Input LTE Uplink 10 MHz High]]



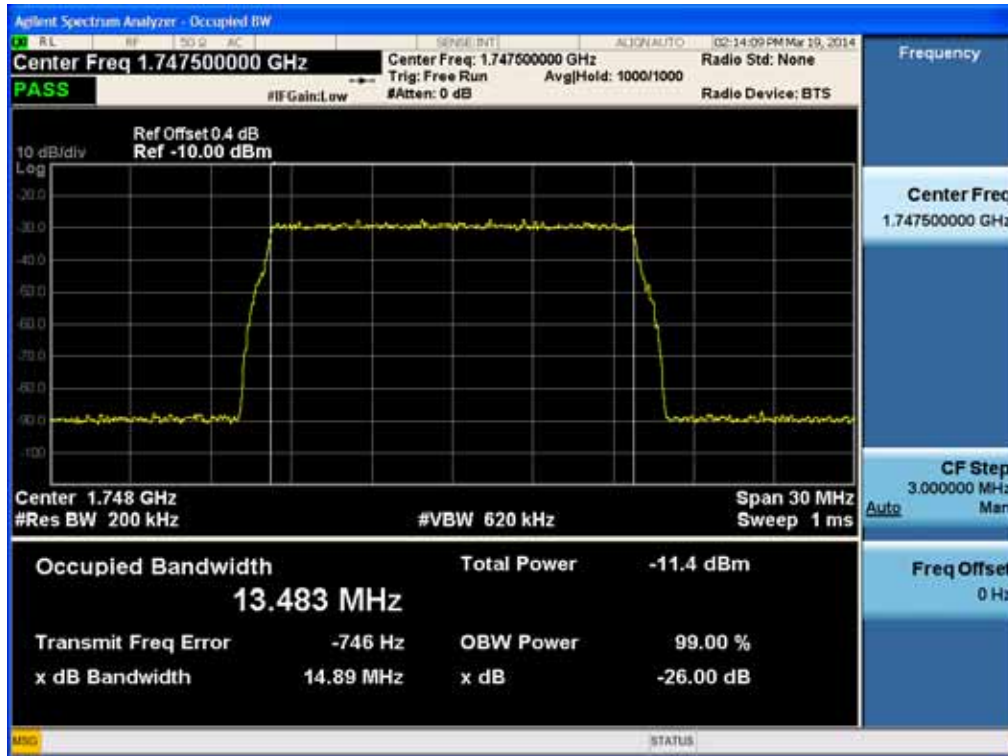
[[Input LTE Uplink 15 MHz Low]]



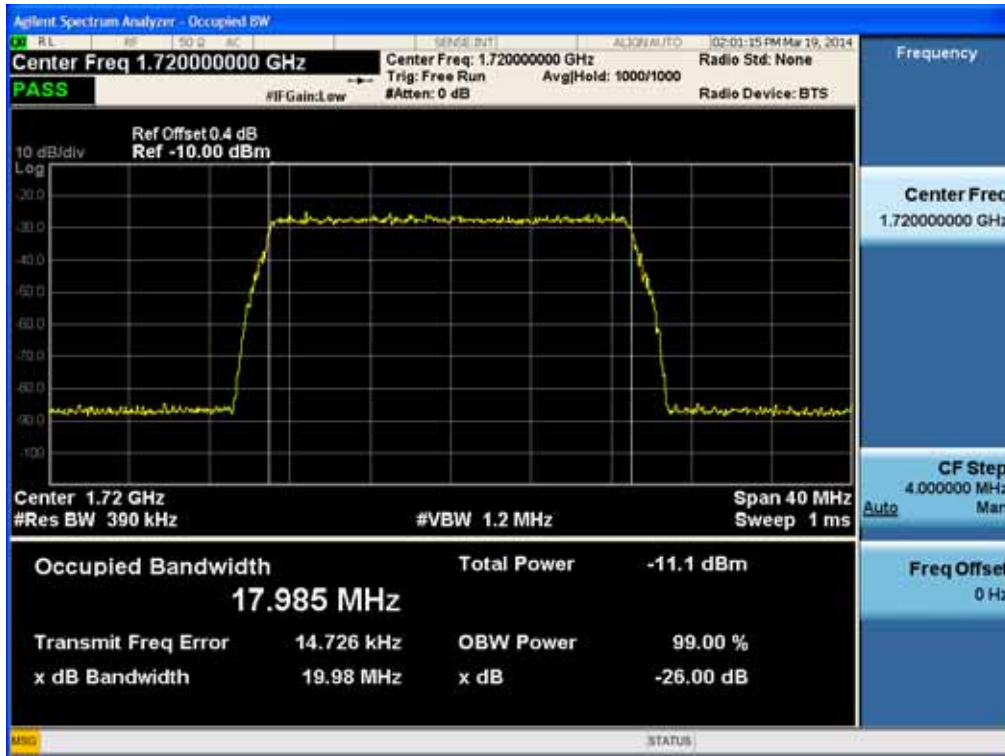
[[Input LTE Uplink 15 MHz Middle]]



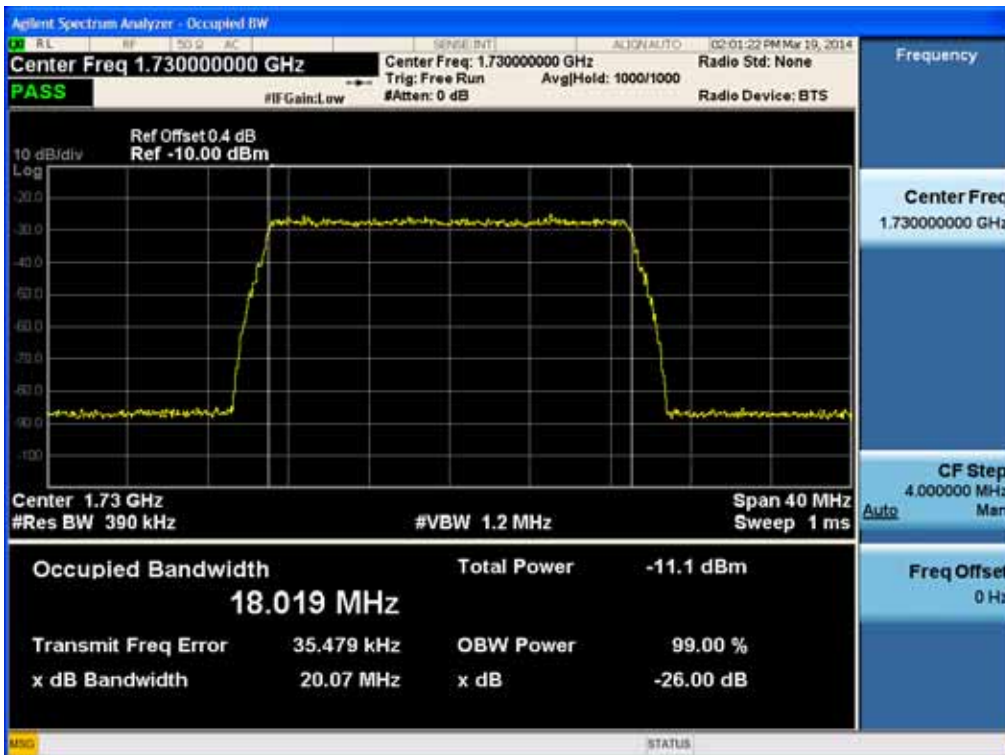
[[Input LTE Uplink 15 MHz High]]



[[Input LTE Uplink 20 MHz Low]]



[[Input LTE Uplink 20 MHz Middle]]



[[Input LTE Uplink 20 MHz High]]

