



RF TEST REPORT

Applicant Huawei Device Co., Ltd.
FCC ID 2ATEYCTR-LX3
Product Smart phone
Model CTR-LX3
Report No. R2205A0419-R3
Issue Date June 15, 2022

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2021)/ FCC CFR47 Part 27C (2021)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict
1	RF Power Output and Effective Isotropic Radiated Power	2.1046 27.50(d)(4) 27.50(b)(10) 27.50(h)(2)	PASS
2	Occupied Bandwidth	2.1049	PASS
3	Band Edge Compliance	27.53(h) 27.53(f) /27.53(c) 27.53(m)	PASS
4	Peak-to-Average Power Ratio	27.50(d)/KDB971168 D01(5.7)	PASS
5	Frequency Stability	2.1055 / 27.54	PASS
6	Spurious Emissions at Antenna Terminals	2.1051 27.53(h) 27.53(f) /27.53(c) 27.53(m)	PASS
7	Radiates Spurious Emission	2.1053 27.53(h) 27.53(f) /27.53(c) 27.53(m)	PASS

Date of Testing: May 17, 2022 ~ June 14, 2022

Date of Sample Received: May 17, 2022

Note: PASS: The EUT complies with the essential requirements in the standard.

FAIL: The EUT does not comply with the essential requirements in the standard.

All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.



1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
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City: Shanghai
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2 General Description of Equipment under Test

2.1 Applicant and Manufacturer Information

Applicant	Huawei Device Co., Ltd.
Applicant address	No.2 of Xincheng Road, Songshan Lake Zone, Dongguan, Guangdong 523808, People's Republic of China
Manufacturer	Huawei Device Co., Ltd.
Manufacturer address	No.2 of Xincheng Road, Songshan Lake Zone, Dongguan, Guangdong 523808, People's Republic of China

2.2 General information

EUT Description			
Model	CTR-LX3		
SN	A7F6R22423000346		
Hardware Version	LLDM599		
Software Version	12.0.1.108(C900E105R1P1)		
Power Supply	Battery / AC adapter		
Antenna Type	Internal Antenna		
Antenna Gain	Band	Main Antenna (dBi)	Second Antenna (dBi)
	WCDMA Band IV	-3.1	-3.3
	LTE Band 4	-3.1	-3.3
	LTE Band 7	-1.8	-2.4
	LTE Band 13	-5.5	-5.8
	LTE Band 38	-1.8	-2.4
	LTE Band 66	-3.0	-3.5
Test Mode(s)	WCDMA Band IV; LTE Band 4/7/13/38/66;		
Test Modulation	(WCDMA) BPSK, QPSK; (LTE)QPSK, 16QAM, 64QAM;		
HSDPA UE Category	24		
HSUPA UE Category	6		
DC-HSDPA UE Category	24		
LTE Category	7		
Maximum E.I.R.P./ E.R.P.	WCDMA Band IV:	19.75 dBm	
	LTE Band 4:	20.82 dBm	
	LTE Band 7:	19.82 dBm	
	LTE Band 13:	16.71 dBm	
	LTE Band 38:	21.65 dBm	
	LTE Band 66:	20.55 dBm	
Rated Power Supply Voltage	3.88V		
Operating Voltage	Minimum: 3.6V Maximum: 4.48V		



Operating Temperature		Lowest: 0°C Highest: +35°C	
Testing Temperature		Lowest: 0°C Highest: +35°C	
Operating Frequency Range(s)	Mode	Tx (MHz)	Rx (MHz)
	WCDMA Band IV	1710 ~ 1755	2110 ~ 2155
	LTE Band 4	1710 ~ 1755	2110 ~ 2155
	LTE Band 7	2500 ~ 2570	2620 ~ 2690
	LTE Band 13	777 ~ 787	746 ~ 756
	LTE Band 38	2570 ~ 2620	2570 ~ 2620
	LTE Band 66	1710 ~ 1780	2110 ~ 2180
EUT Accessory			
Accessory	Model	Manufacture	No.
Adapter	HW-100400E01	Huawei Technologies Co., Ltd. (Manufacturer: ASAP TECHNOLOGY (Jiangxi) CO., LTD)	1
	HW-100400B01	Huawei Technologies Co., Ltd. (Manufacturer: ASAP TECHNOLOGY (Jiangxi) CO., LTD)	2
		Huawei Technologies Co., Ltd. (Manufacturer: HUIZHOU BYD ELECTRONIC CO., LTD.)	3
	HW-100400U01	Huawei Technologies Co., Ltd. (Manufacturer: ASAP TECHNOLOGY (Jiangxi) CO., LTD)	4
	HW-100400E02	Huawei Device Co., Ltd. (Manufacturer: ASAP TECHNOLOGY (Jiangxi) CO., LTD)	5
	HW-100400B02	Huawei Device Co., Ltd. (Manufacturer: ASAP TECHNOLOGY (Jiangxi) CO., LTD)	6
	HW-100400U02	Huawei Device Co., Ltd. (Manufacturer: ASAP TECHNOLOGY (Jiangxi) CO., LTD)	7
Battery	HB496493EGW	Dongguan NVT Technology Co., Ltd.	1
		Shenzhen Sunwoda Intelligence Technology Co., Ltd.	2
Earphone	MEND1532B528A11	Jiangxi Lianchuang Hongsheng Electronic Co. ,LTD.	1
	1293-3283-3.5mm-3 39	Boluo County Quancheng Electronic Co.,ltd.	2
	EPAB542-2WH05-D H	FOXCONN INTERCONNECT TECHNOLOGY LIMITED	3
USB Cable	WA0046	GUANGXI BROAD TELECOMMUNICATION CO.,LTD	1
	AU2-CHO006HF	FREEPART RESOURCES ENTERPRISES (JIANGXI) CO.,LTD	2
	213-00989-0	DONGGUAN MINGJI ELECTRONICS TECHNOLOGY GROUP CO.,LTD	3
	L99UC138-CS-H	LUXSHARE PRECISION INDUSTRY CO.,LTD	4
<p>Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.</p> <p>2. There is more than Adapter/Battery/ Earphone /USB cable, each one should be applied throughout the compliance test respectively, and however, only the worst case (Adapter 4/ Battery 1/ Earphone 3/ USB cable 4) will be recorded in this report.</p>			



3 Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR47 Part 27C (2021)

FCC CFR47 Part 2 (2021)

Reference standard:

ANSI C63.26-2015

KDB 971168 D01 Power Meas License Digital Systems v03r01

4 Test Configuration

There is more than one SIM card slot, each one should be applied throughout the compliance test respectively, and however, only the worst case (SIM 1) will be recorded in this report

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (X axis, horizontal polarization for Main Antenna and Z axis, vertical polarization for Second Antenna) and the worst case was recorded.

All mode and data rates and positions and RB size and modulations were investigated.

Subsequently, only the worst case emissions are reported.

The following testing in WCDMA/LTE is set based on the maximum RF Output Power.

The following testing in different Bandwidth is set to detail in the following table:

Test modes are chosen to be reported as the worst case configuration below:

Test items	Modes/Modulation
	WCDMA Band IV
RF Power Output and Effective Isotropic Radiated Power	RMC/AMR HSDPA/HSUPA DC-HSDPA
Occupied Bandwidth	RMC
Band Edge Compliance	RMC
Peak-to-Average Power Ratio	RMC
Frequency Stability	RMC
Spurious Emissions at Antenna Terminals	RMC
Radiates Spurious Emission	RMC



Test modes are chosen to be reported as the worst case configuration below for LTE Band 4/7/13/38/66:

Test items	Modes	Bandwidth (MHz)						Modulation		RB			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM/64QAM	1	50%	100%	L	M	H
RF Power Output and Effective Isotropic Radiated Power	LTE 4	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 13	-	-	O	O	-	-	O	O	O	O	O	O	O	O
	LTE 38	-	-	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 66	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Occupied Bandwidth	LTE 4	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 13	-	-	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 38	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 66	O	O	O	O	O	O	O	O	-	-	O	O	O	O
Band Edge Compliance	LTE 4	O	O	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 7	-	-	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 13	-	-	O	O	-	-	O	O	O	-	O	O	-	O
	LTE 38	-	-	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 66	O	O	O	O	O	O	O	O	O	-	O	O	-	O
Peak-to-Average Power Ratio	LTE 4	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 13	-	-	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 38	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 66	O	O	O	O	O	O	O	O	-	-	O	O	O	O
Frequency Stability	LTE 4	O	O	O	O	O	O	O	O	O	-	-	-	O	-
	LTE 7	-	-	O	O	O	O	O	O	O	-	-	-	O	-
	LTE 13	-	-	O	O	-	-	O	O	O	-	-	-	O	-
	LTE 38	-	-	O	O	O	O	O	O	O	-	-	-	O	-
	LTE 66	O	O	O	O	O	O	O	O	O	-	-	-	O	-
Spurious	LTE 4	O	O	O	O	O	O	O	-	O	-	-	O	O	O



Emissions at Antenna Terminals	LTE 7	-	-	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 13	-	-	O	O	-	-	O	-	O	-	-	O	O	O
	LTE 38	-	-	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 66	O	O	O	O	O	O	O	-	O	-	-	O	O	O
Radiates Spurious Emission	LTE 4	O	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 7	-	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 13	-	-	O	O	-	-	O	-	O	-	-	-	O	-
	LTE 38	-	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 66	O	-	O	-	-	O	O	-	O	-	-	-	O	-
Note	1. The mark "O" means that this configuration is chosen for testing. 2. The mark "-" means that this configuration is not testing.														

5 Test Case

5.1 RF Power Output and Effective Isotropic Radiated Power

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

During the process of the testing, The EUT was connected to the Base Station Simulator with a known loss. The EUT is controlled by the Base Station Simulator test set to ensure max power transmission with proper modulation.

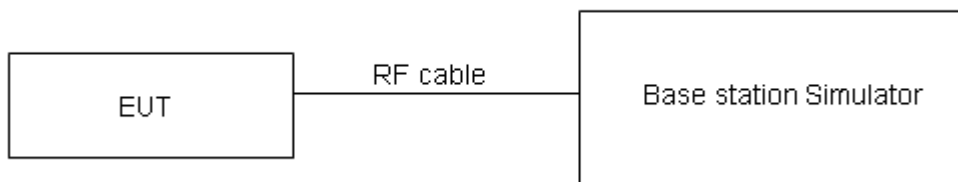
ERP can then be calculated as follows:

$$\text{EIRP (dBm)} = \text{Output Power (dBm)} - \text{Losses (dB)} + \text{Antenna Gain (dBi)}$$

where:dBd refers to gain relative to an ideal dipole.

$$\text{EIRP (dBm)} = \text{ERP (dBm)} + 2.15 \text{ (dB.)}$$

Test Setup



Limits

No specific RF power output requirements in part 2.1046.

Rule Part 27.50(b) (10) specifies that “Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP”

Rule Part 27.50(d) (4) specifies that “Fixed, mobile and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP”

Rule Part 27.50(h) (2) specifies that “Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.”

Part 27.50(b)(10)Limit	≤ 3 W (34.77 dBm)
Part 27.50(d)(4)Limit	≤ 1 W (30 dBm)
Part 27.50(h)(2) Limit	≤ 2 W (33 dBm)



Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=0.4$ dB for RF power output, $k = 2$, $U= 1.19$ dB for ERP/EIRP.

Test Results

Refer to the section 6.1 of this report for test data.

5.2 Occupied Bandwidth

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

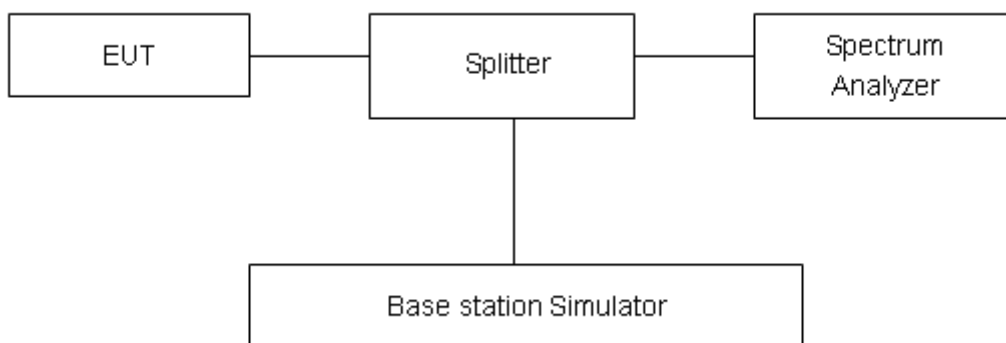
Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The occupied bandwidth is measured using spectrum analyzer.

RBW is set to $\geq 1\%EBW$, VBW is set to 3x RBW.

99% power and -26dBc occupied bandwidths are recorded. Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

No specific occupied bandwidth requirements in part 2.1049.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=624\text{Hz}$.

Test Results

Refer to the section 6.2 of this report for test data.

5.3 Band Edge Compliance

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The band edge of the lowest and highest channels were measured.

The testing follows KDB 971168 D01 v03r01 Section 6.0

The EUT was connected to spectrum analyzer and system simulator via a power divider.

The band edges of low and high channels for the highest RF powers were measured.

For LTE Band 7/38 set RBW \geq 1% EBW in the 1MHz band immediately outside and adjacent to the band edge. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.

RBW is set to \geq 1%EBW, VBW is set to 3x RBW.

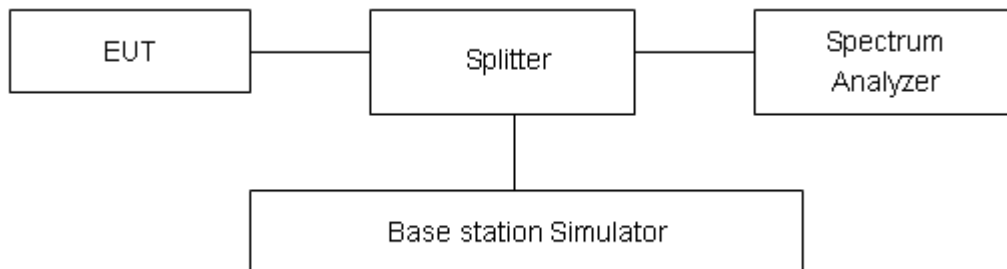
on spectrum analyzer.

Set spectrum analyzer with RMS detector.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

Checked that all the results comply with the emission limit line.

Test Setup



Limits

Rule Part 27.53(h) specifies that “ for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB”

Rule Part 27.53(m) (4)/ specifies that “for BRS and EBS stations. For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(4) of this section. In addition, the attenuation factor



shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Example:

The limit line is derived from $43 + 10 \log(P)$ dB below the transmitter power P (Watts)

$$= P(W) - [43 + 10 \log(P)] \text{ (dB)}$$

$$= [30 + 10 \log(P)] \text{ (dBm)} - [43 + 10 \log(P)] \text{ (dB)} = -13 \text{ dBm.}$$

Rule Part 27.53(f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

Rule Part 27.53 (c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 0.684$ dB.

Test Results

Refer to the section 6.3 of this report for test data.

5.4 Peak-to-Average Power Ratio (PAPR)

Ambient condition

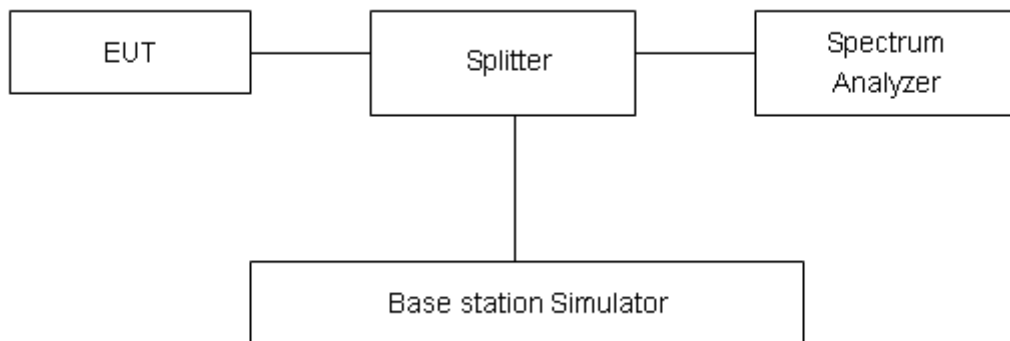
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

Measure the total peak power and record as PPK. And measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$$PAPR (dB) = PPK (dBm) - PAvg (dBm).$$

Test Setup



Limits

Rule Part 27.50(d)(5) Equipment employed must be authorized in accordance with the provisions of 24.51. Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (d)(6) of this section. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.4$ dB.

Test Results

Refer to the section 6.4 of this report for test data.

5.5 Frequency Stability

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

Frequency Stability (Temperature Variation)

The temperature inside the climate chamber is varied from 0°C to +35°C in 10°C step size.

- (1)With all power removed, the temperature was decreased to -10°C and permitted to stabilize for three hours.
- (2)Measure the carrier frequency with the test equipment in a “call mode”. These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.
- (3) Repeat the above measurements at 10°C increments from 0°C to +35°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.

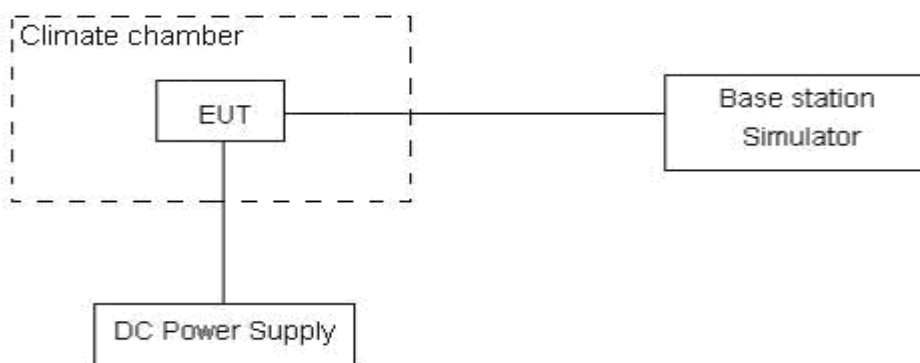
Frequency Stability (Voltage Variation)

The frequency stability shall be measured with variation of primary supply voltage as follows:

Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

This transceiver is specified to operate with an input voltage of between 3.6 V and 4.48 V, with a nominal voltage of 3.88V.

Test setup



Limits

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 3, U=0.01\text{ppm}$.

Test Results

Refer to the section 6.5 of this report for test data.

5.6 Spurious Emissions at Antenna Terminals

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The measurement is carried out using a spectrum analyzer. The spectrum analyzer scans from 9kHz to the 10th harmonic of the carrier. The peak detector is used.

RBW is set to 100kHz, VBW is set to 300kHz for 30MHz~1GHz

RBW is set to 1MHz, VBW is set to 3MHz for above 1GHz, Sweep is set to ATUO.

RBW is set to 1 kHz (0.009MHz~ 0.15 MHz),

RBW is set to 10 kHz (0.15 MHz~ 30 MHz)

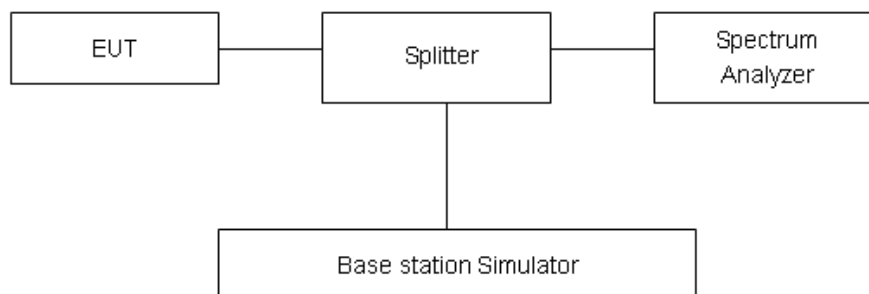
RBW is set to 100 kHz (30MHz~1000 MHz)

RBW is set to 1000 kHz (above 1000MHz)

Of those disturbances below (limit – 20 dB), the mark is not required for the EUT.

The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup



Limits

Rule Part 27.53(h) specifies that “for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB..”

Rule Part 27.53(f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to –70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and –80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

Rule Part 27.53(m) $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in



paragraph (m)(4) of this section.

Part 27.53 (c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;
- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

Part 27.53(h) Limit		-13 dBm
Part 27.53(f) Limit	Limit out of the band 1559-1610 MHz	-13 dBm
	Limit in the band 1559-1610 MHz	-40 dBm
Part 27.53(m) Limit		-25 dBm

Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
9kHz-1GHz	0.684 dB
1GHz-30GHz	1.407 dB

Test Results

Refer to the section 6.6 of this report for test data.

5.7 Radiates Spurious Emission

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

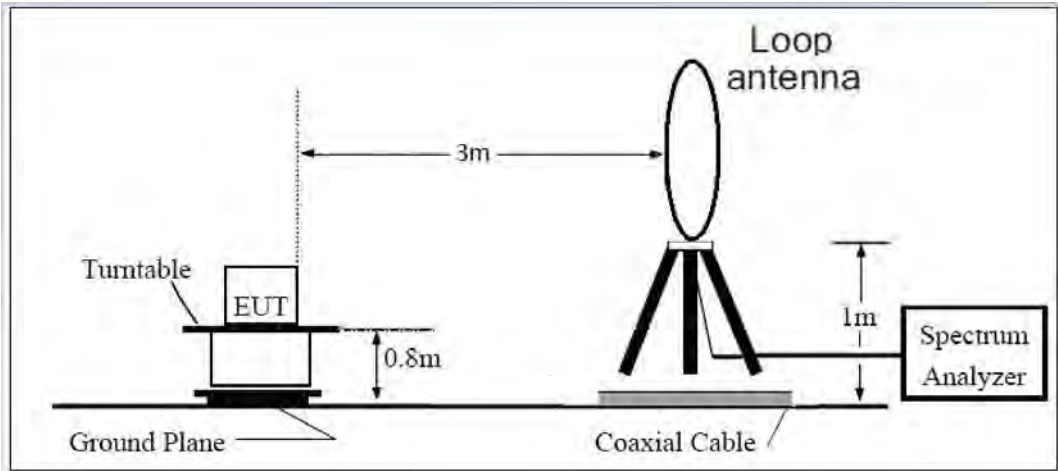
1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI C63.26 (2015).
2. Below 1GHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H). Above 1GHz: (Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).
3. A loop antenna, A log-periodic antenna or horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
4. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=100kHz, VBW=300kHz for 30MHz to 1GHz and RBW=1MHz, VBW=3MHz for above 1GHz, and the maximum value of the receiver should be recorded as (Pr).
5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
7. The measurement results are obtained as described below:
$$\text{Power(EIRP)} = \text{PMea} - \text{PAg} - \text{Pcl} + \text{Ga}$$

The measurement results are amend as described below:
$$\text{Power(EIRP)} = \text{PMea} - \text{Pcl} + \text{Ga}$$
8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dB) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, $\text{ERP} = \text{EIRP} - 2.15\text{dB}$.

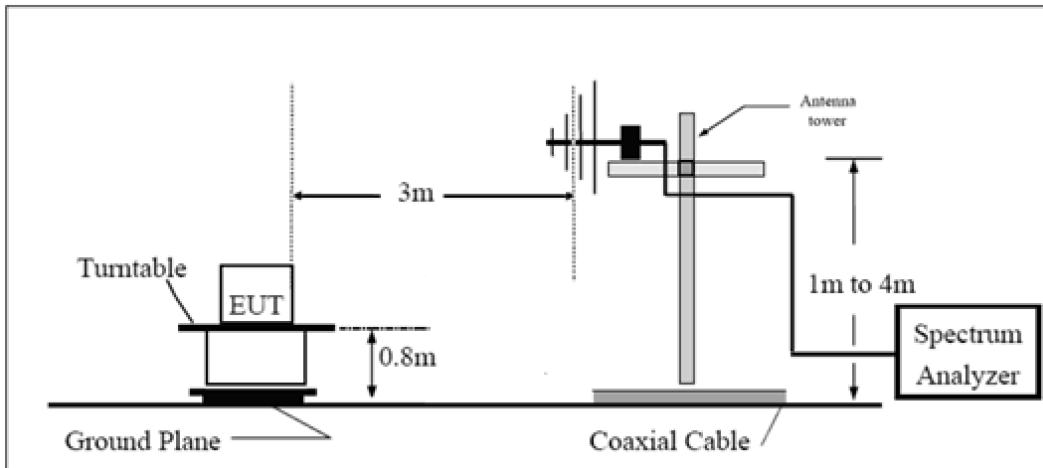
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

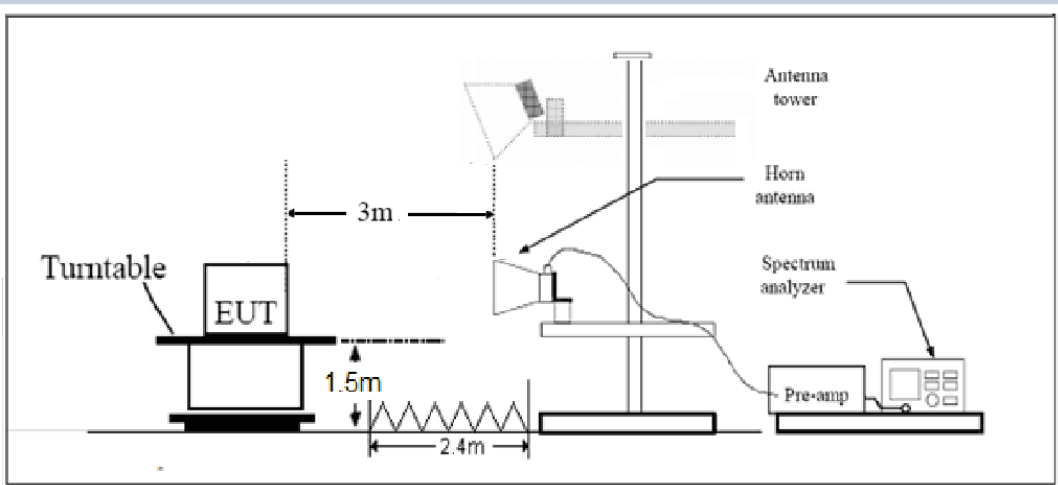
9KHz ~ 30MHz



30MHz ~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

**Limits**

Rule Part 27.53(h) specifies that “for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.”

Rule Part 27.53(m) $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(4) of this section.

Rule Part 27.53(f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

Part 27.53 (c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

Part 27.53(h) Limit		-13 dBm
Part 27.53(f) Limit	Limit out of the band 1559-1610 MHz	-13 dBm
	Limit in the band 1559-1610 MHz	-40 dBm
Part 27.53(m) Limit		-25 dBm

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = \pm 1.96$, $U = \pm 3.55$ dB.

Test Results

Refer to the section 6.7 of this report for test data.



6 Test Results

6.1 RF Power Output and Effective Isotropic Radiated Power

WCDMA Band IV		Maximum Output Power (dBm)			Main Antenna EIRP (dBm)			Second Antenna EIRP (dBm)		
		Channel 1312	Channel 1413	Channel 1513	Channel 1312	Channel 1413	Channel 1513	Channel 1312	Channel 1413	Channel 1513
		1712.4 (MHz)	1732.6 (MHz)	1752.6 (MHz)	Channel 1312	Channel 1413	Channel 1513	Channel 1312	Channel 1413	Channel 1513
RMC		22.36	22.46	22.83	19.26	19.36	19.73	19.06	19.16	19.53
AMR		22.20	22.58	22.85	19.10	19.48	19.75	18.90	19.28	19.55
HSDPA	Sub - Test 1	22.48	22.32	22.71	19.38	19.22	19.61	19.18	19.02	19.41
	Sub - Test 2	22.30	22.48	22.67	19.20	19.38	19.57	19.00	19.18	19.37
	Sub - Test 3	21.76	21.92	22.17	18.66	18.82	19.07	18.46	18.62	18.87
	Sub - Test 4	21.74	21.96	22.33	18.64	18.86	19.23	18.44	18.66	19.03
HSUPA	Sub - Test 1	21.04	21.24	21.65	17.94	18.14	18.55	17.74	17.94	18.35
	Sub - Test 2	20.12	20.12	20.69	17.02	17.02	17.59	16.82	16.82	17.39
	Sub - Test 3	21.26	21.36	21.67	18.16	18.26	18.57	17.96	18.06	18.37
	Sub - Test 4	20.16	20.14	20.75	17.06	17.04	17.65	16.86	16.84	17.45
	Sub - Test 5	22.12	22.28	22.47	19.02	19.18	19.37	18.82	18.98	19.17
DC-HSDPA	Sub - Test 1	22.20	22.24	22.59	19.10	19.14	19.49	18.90	18.94	19.29
	Sub - Test 2	22.26	22.36	22.65	19.16	19.26	19.55	18.96	19.06	19.35
	Sub - Test 3	21.82	21.60	21.99	18.72	18.50	18.89	18.52	18.30	18.69
	Sub - Test 4	21.70	21.68	22.11	18.60	18.58	19.01	18.40	18.38	18.81

LTE Band 4				Maximum Output Power (dBm)			Main Antenna EIRP (dBm)			Second Antenna EIRP (dBm)		
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)								
				19957/1710.7	20175/1732.5	20393/1754.3	19957/1710.7	20175/1732.5	20393/1754.3	19957/1710.7	20175/1732.5	20393/1754.3
1.4MHz	QPSK	1	0	22.98	23.11	23.16	19.88	20.01	20.06	19.68	19.81	19.86
		1	2	23.26	23.13	23.11	20.16	20.03	20.01	19.96	19.83	19.81
		1	5	23.02	22.90	23.88	19.92	19.80	20.78	19.72	19.60	20.58
		3	0	23.07	23.18	23.14	19.97	20.08	20.04	19.77	19.88	19.84
		3	2	23.13	23.12	23.15	20.03	20.02	20.05	19.83	19.82	19.85
		3	3	23.06	23.08	23.03	19.96	19.98	19.93	19.76	19.78	19.73
	6	0	22.07	22.21	22.17	18.97	19.11	19.07	18.77	18.91	18.87	
16QAM	1	0	22.52	22.40	22.66	19.42	19.30	19.56	19.22	19.10	19.36	



		1	2	22.36	22.47	22.52	19.26	19.37	19.42	19.06	19.17	19.22
		1	5	22.29	22.31	22.44	19.19	19.21	19.34	18.99	19.01	19.14
		3	0	22.16	22.10	22.22	19.06	19.00	19.12	18.86	18.80	18.92
		3	2	22.12	22.17	22.26	19.02	19.07	19.16	18.82	18.87	18.96
		3	3	22.06	22.04	22.15	18.96	18.94	19.05	18.76	18.74	18.85
		6	0	21.13	21.12	21.08	18.03	18.02	17.98	17.83	17.82	17.78
	64QAM	1	0	22.34	21.37	22.10	19.24	18.27	19.00	19.04	18.07	18.80
		1	2	21.14	21.41	22.13	18.04	18.31	19.03	17.84	18.11	18.83
		1	5	21.19	21.28	21.13	18.09	18.18	18.03	17.89	17.98	17.83
		3	0	22.05	21.11	21.06	18.95	18.01	17.96	18.75	17.81	17.76
		3	2	21.00	21.06	21.05	17.90	17.96	17.95	17.70	17.76	17.75
		3	3	20.95	21.09	21.00	17.85	17.99	17.90	17.65	17.79	17.70
6	0	20.01	20.11	20.14	16.91	17.01	17.04	16.71	16.81	16.84		
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)								
				19965/1711.5	20175/1732.5	20385/1753.5	19965/1711.5	20175/1732.5	20385/1753.5	19965/1711.5	20175/1732.5	20385/1753.5
3MHz	QPSK	1	0	23.00	23.15	23.19	19.90	20.05	20.09	19.70	19.85	19.89
		1	7	23.24	23.16	23.15	20.14	20.06	20.05	19.94	19.86	19.85
		1	14	23.05	22.95	23.92	19.95	19.85	20.82	19.75	19.65	20.62
		8	0	22.17	22.30	22.27	19.07	19.20	19.17	18.87	19.00	18.97
		8	4	22.25	22.22	22.27	19.15	19.12	19.17	18.95	18.92	18.97
		8	7	22.16	22.19	22.13	19.06	19.09	19.03	18.86	18.89	18.83
		15	0	22.07	22.25	22.20	18.97	19.15	19.10	18.77	18.95	18.90
	16QAM	1	0	22.52	22.42	22.69	19.42	19.32	19.59	19.22	19.12	19.39
		1	7	22.36	22.47	22.56	19.26	19.37	19.46	19.06	19.17	19.26
		1	14	22.31	22.35	22.47	19.21	19.25	19.37	19.01	19.05	19.17
		8	0	21.27	21.23	21.34	18.17	18.13	18.24	17.97	17.93	18.04
		8	4	21.23	21.30	21.38	18.13	18.20	18.28	17.93	18.00	18.08
		8	7	21.16	21.16	21.28	18.06	18.06	18.18	17.86	17.86	17.98
		15	0	21.16	21.16	21.11	18.06	18.06	18.01	17.86	17.86	17.81
	64QAM	1	0	22.37	21.39	22.13	19.27	18.29	19.03	19.07	18.09	18.83
		1	7	21.17	21.41	22.15	18.07	18.31	19.05	17.87	18.11	18.85
		1	14	21.21	21.27	21.16	18.11	18.17	18.06	17.91	17.97	17.86
		8	0	21.16	20.24	20.18	18.06	17.14	17.08	17.86	16.94	16.88
		8	4	20.11	20.19	20.17	17.01	17.09	17.07	16.81	16.89	16.87
		8	7	20.05	20.21	20.13	16.95	17.11	17.03	16.75	16.91	16.83
		15	0	20.04	20.15	20.17	16.94	17.05	17.07	16.74	16.85	16.87
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)								
				19975/1712.5	20175/1732.5	20375/1752.5	19975/1712.5	20175/1732.5	20375/1752.5	19975/1712.5	20175/1732.5	20375/1752.5
5MHz	QPSK	1	0	22.97	23.13	23.15	19.87	20.03	20.05	19.67	19.83	19.85
		1	13	23.22	23.12	23.12	20.12	20.02	20.02	19.92	19.82	19.82
		1	24	23.02	22.90	23.88	19.92	19.80	20.78	19.72	19.60	20.58



		12	0	22.14	22.25	22.23	19.04	19.15	19.13	18.84	18.95	18.93	
		12	6	22.23	22.18	22.22	19.13	19.08	19.12	18.93	18.88	18.92	
		12	13	22.14	22.17	22.09	19.04	19.07	18.99	18.84	18.87	18.79	
		25	0	22.07	22.24	22.18	18.97	19.14	19.08	18.77	18.94	18.88	
	16QAM	1	0	22.52	22.38	22.66	19.42	19.28	19.56	19.22	19.08	19.36	
		1	13	22.36	22.45	22.53	19.26	19.35	19.43	19.06	19.15	19.23	
		1	24	22.28	22.33	22.43	19.18	19.23	19.33	18.98	19.03	19.13	
		12	0	21.25	21.19	21.31	18.15	18.09	18.21	17.95	17.89	18.01	
		12	6	21.20	21.25	21.34	18.10	18.15	18.24	17.90	17.95	18.04	
		12	13	21.13	21.11	21.24	18.03	18.01	18.14	17.83	17.81	17.94	
		25	0	21.14	21.12	21.06	18.04	18.02	17.96	17.84	17.82	17.76	
	64QAM	1	0	22.34	21.39	22.10	19.24	18.29	19.00	19.04	18.09	18.80	
		1	13	21.14	21.43	22.12	18.04	18.33	19.02	17.84	18.13	18.82	
		1	24	21.22	21.25	21.12	18.12	18.15	18.02	17.92	17.95	17.82	
		12	0	21.14	20.20	20.19	18.04	17.10	17.09	17.84	16.90	16.89	
		12	6	20.08	20.14	20.13	16.98	17.04	17.03	16.78	16.84	16.83	
		12	13	20.02	20.16	20.09	16.92	17.06	16.99	16.72	16.86	16.79	
		25	0	20.02	20.11	20.12	16.92	17.01	17.02	16.72	16.81	16.82	
	Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)								
					20000/1715	20175/1732.5	20350/1750	20000/1715	20175/1732.5	20350/1750	20000/1715	20175/1732.5	20350/1750
	10MHz	QPSK	1	0	22.99	23.14	23.18	19.89	20.04	20.08	19.69	19.84	19.88
			1	25	23.25	23.17	23.16	20.15	20.07	20.06	19.95	19.87	19.86
			1	49	23.04	22.94	23.91	19.94	19.84	20.81	19.74	19.64	20.61
			25	0	22.17	22.30	22.27	19.07	19.20	19.17	18.87	19.00	18.97
25			13	22.26	22.23	22.26	19.16	19.13	19.16	18.96	18.93	18.96	
25			25	22.16	22.21	22.14	19.06	19.11	19.04	18.86	18.91	18.84	
50			0	22.11	22.26	22.22	19.01	19.16	19.12	18.81	18.96	18.92	
16QAM		1	0	22.56	22.41	22.68	19.46	19.31	19.58	19.26	19.11	19.38	
		1	25	22.40	22.49	22.56	19.30	19.39	19.46	19.10	19.19	19.26	
		1	49	22.31	22.35	22.46	19.21	19.25	19.36	19.01	19.05	19.16	
		25	0	21.28	21.24	21.35	18.18	18.14	18.25	17.98	17.94	18.05	
		25	13	21.22	21.29	21.37	18.12	18.19	18.27	17.92	17.99	18.07	
		25	25	21.16	21.16	21.28	18.06	18.06	18.18	17.86	17.86	17.98	
		50	0	21.17	21.17	21.10	18.07	18.07	18.00	17.87	17.87	17.80	
64QAM		1	0	22.36	21.38	22.12	19.26	18.28	19.02	19.06	18.08	18.82	
		1	25	21.17	21.43	22.15	18.07	18.33	19.05	17.87	18.13	18.85	
		1	49	21.21	21.27	21.15	18.11	18.17	18.05	17.91	17.97	17.85	
		25	0	21.17	20.25	20.19	18.07	17.15	17.09	17.87	16.95	16.89	
		25	13	20.10	20.18	20.16	17.00	17.08	17.06	16.80	16.88	16.86	
		25	25	20.05	20.21	20.13	16.95	17.11	17.03	16.75	16.91	16.83	
		50	0	20.05	20.16	20.16	16.95	17.06	17.06	16.75	16.86	16.86	
Bandwidth		Modulation	RB	offset	Channel/Frequency(MHz)								



dth	ion	allocat ion		20025/ 1717.5	20175/ 1732.5	20325/ 1747.5	20025/ 1717.5	20175/ 1732.5	20325/ 1747.5	20025/ 1717.5	20175/ 1732.5	20325/ 1747.5
15MHz	QPSK	1	0	22.98	23.10	23.16	19.88	20.00	20.06	19.68	19.80	19.86
		1	38	23.23	23.16	23.13	20.13	20.06	20.03	19.93	19.86	19.83
		1	74	23.01	22.89	23.87	19.91	19.79	20.77	19.71	19.59	20.57
		36	0	22.15	22.26	22.24	19.05	19.16	19.14	18.85	18.96	18.94
		36	18	22.23	22.18	22.22	19.13	19.08	19.12	18.93	18.88	18.92
		36	39	22.13	22.18	22.10	19.03	19.08	19.00	18.83	18.88	18.80
		75	0	22.09	22.22	22.17	18.99	19.12	19.07	18.79	18.92	18.87
	16QAM	1	0	22.54	22.39	22.66	19.44	19.29	19.56	19.24	19.09	19.36
		1	38	22.38	22.46	22.54	19.28	19.36	19.44	19.08	19.16	19.24
		1	74	22.29	22.31	22.43	19.19	19.21	19.33	18.99	19.01	19.13
		36	0	21.25	21.22	21.32	18.15	18.12	18.22	17.95	17.92	18.02
		36	18	21.19	21.24	21.33	18.09	18.14	18.23	17.89	17.94	18.03
		36	39	21.14	21.12	21.25	18.04	18.02	18.15	17.84	17.82	17.95
		75	0	21.14	21.12	21.06	18.04	18.02	17.96	17.84	17.82	17.76
	64QAM	1	0	22.31	21.36	22.10	19.21	18.26	19.00	19.01	18.06	18.80
		1	38	21.15	21.40	22.13	18.05	18.30	19.03	17.85	18.10	18.83
		1	74	21.22	21.26	21.16	18.12	18.16	18.06	17.92	17.96	17.86
		36	0	21.16	20.27	20.20	18.06	17.17	17.10	17.86	16.97	16.90
		36	18	20.08	20.15	20.15	16.98	17.05	17.05	16.78	16.85	16.85
		36	39	20.03	20.17	20.10	16.93	17.07	17.00	16.73	16.87	16.80
		75	0	20.02	20.11	20.12	16.92	17.01	17.02	16.72	16.81	16.82
Bandwidth	Modulation	RB allocat ion	offset	Channel/Frequency(MHz)								
				20050/ 1720	20175/ 1732.5	20300/ 1745	20050/ 1720	20175/ 1732.5	20300/ 1745	20050/ 1720	20175/ 1732.5	20300/ 1745
20MHz	QPSK	1	0	22.95	23.06	23.13	19.85	19.96	20.03	19.65	19.76	19.83
		1	50	23.22	23.12	23.11	20.12	20.02	20.01	19.92	19.82	19.81
		1	99	22.99	22.88	23.84	19.89	19.78	20.74	19.69	19.58	20.54
		50	0	22.12	22.21	22.20	19.02	19.11	19.10	18.82	18.91	18.90
		50	25	22.21	22.14	22.19	19.11	19.04	19.09	18.91	18.84	18.89
		50	50	22.10	22.13	22.06	19.00	19.03	18.96	18.80	18.83	18.76
		100	0	22.06	22.17	22.13	18.96	19.07	19.03	18.76	18.87	18.83
	16QAM	1	0	22.51	22.35	22.61	19.41	19.25	19.51	19.21	19.05	19.31
		1	50	22.35	22.44	22.50	19.25	19.34	19.40	19.05	19.14	19.20
		1	99	22.26	22.28	22.41	19.16	19.18	19.31	18.96	18.98	19.11
		50	0	21.22	21.18	21.29	18.12	18.08	18.19	17.92	17.88	17.99
		50	25	21.16	21.22	21.30	18.06	18.12	18.20	17.86	17.92	18.00
		50	50	21.11	21.07	21.21	18.01	17.97	18.11	17.81	17.77	17.91
		100	0	21.12	21.08	21.03	18.02	17.98	17.93	17.82	17.78	17.73
	64QAM	1	0	22.29	21.32	22.05	19.19	18.22	18.95	18.99	18.02	18.75
		1	50	21.11	21.38	22.09	18.01	18.28	18.99	17.81	18.08	18.79
		1	99	21.16	21.20	21.10	18.06	18.10	18.00	17.86	17.90	17.80



	50	0	21.11	20.19	20.13	18.01	17.09	17.03	17.81	16.89	16.83
	50	25	20.04	20.11	20.09	16.94	17.01	16.99	16.74	16.81	16.79
	50	50	20.00	20.12	20.06	16.90	17.02	16.96	16.70	16.82	16.76
	100	0	20.00	20.07	20.09	16.90	16.97	16.99	16.70	16.77	16.79

LTE Band 7				Maximum Output Power (dBm)			Main Antenna EIRP (dBm)			Second Antenna EIRP (dBm)		
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)								
				20775/2502.5	21100/2535	21425/2567.5	20775/2502.5	21100/2535	21425/2567.5	20775/2502.5	21100/2535	21425/2567.5
5MHz	QPSK	1	0	20.92	20.92	21.03	19.12	19.12	19.23	18.52	18.52	18.63
		1	13	21.17	21.00	21.47	19.37	19.20	19.67	18.77	18.60	19.07
		1	24	20.94	20.86	21.16	19.14	19.06	19.36	18.54	18.46	18.76
		12	0	21.10	21.10	21.25	19.30	19.30	19.45	18.70	18.70	18.85
		12	6	21.18	21.12	21.35	19.38	19.32	19.55	18.78	18.72	18.95
		12	13	21.07	21.08	21.24	19.27	19.28	19.44	18.67	18.68	18.84
		25	0	21.08	21.07	21.33	19.28	19.27	19.53	18.68	18.67	18.93
	16QAM	1	0	21.06	21.22	21.18	19.26	19.42	19.38	18.66	18.82	18.78
		1	13	21.17	21.47	21.25	19.37	19.67	19.45	18.77	19.07	18.85
		1	24	21.18	21.13	21.24	19.38	19.33	19.44	18.78	18.73	18.84
		12	0	21.09	21.08	21.13	19.29	19.28	19.33	18.69	18.68	18.73
		12	6	21.15	21.14	21.23	19.35	19.34	19.43	18.75	18.74	18.83
		12	13	21.08	21.09	21.16	19.28	19.29	19.36	18.68	18.69	18.76
		25	0	21.01	21.01	21.10	19.21	19.21	19.30	18.61	18.61	18.70
	64QAM	1	0	20.81	21.19	20.89	19.01	19.39	19.09	18.41	18.79	18.49
		1	13	21.53	21.49	21.59	19.73	19.69	19.79	19.13	19.09	19.19
		1	24	21.04	21.05	21.06	19.24	19.25	19.26	18.64	18.65	18.66
		12	0	19.85	20.09	19.93	18.05	18.29	18.13	17.45	17.69	17.53
		12	6	20.02	20.10	20.10	18.22	18.30	18.30	17.62	17.70	17.70
		12	13	19.76	20.06	19.84	17.96	18.26	18.04	17.36	17.66	17.44
		25	0	19.80	20.01	19.89	18.00	18.21	18.09	17.40	17.61	17.49
10MHz	QPSK	1	0	20.94	20.93	21.06	19.14	19.13	19.26	18.54	18.53	18.66
		1	25	21.20	21.05	21.51	19.40	19.25	19.71	18.80	18.65	19.11
1		49	20.96	20.90	21.19	19.16	19.10	19.39	18.56	18.50	18.79	
25		0	21.13	21.15	21.29	19.33	19.35	19.49	18.73	18.75	18.89	
25		13	21.21	21.17	21.39	19.41	19.37	19.59	18.81	18.77	18.99	
25		25	21.09	21.12	21.29	19.29	19.32	19.49	18.69	18.72	18.89	
50		0	21.12	21.09	21.37	19.32	19.29	19.57	18.72	18.69	18.97	
16QAM	1	0	21.10	21.25	21.20	19.30	19.45	19.40	18.70	18.85	18.80	
	1	25	21.21	21.51	21.28	19.41	19.71	19.48	18.81	19.11	18.88	



		1	49	21.21	21.15	21.27	19.41	19.35	19.47	18.81	18.75	18.87
		25	0	21.12	21.13	21.17	19.32	19.33	19.37	18.72	18.73	18.77
		25	13	21.17	21.18	21.26	19.37	19.38	19.46	18.77	18.78	18.86
		25	25	21.11	21.14	21.20	19.31	19.34	19.40	18.71	18.74	18.80
		50	0	21.04	21.06	21.14	19.24	19.26	19.34	18.64	18.66	18.74
	64QAM	1	0	20.83	21.18	20.91	19.03	19.38	19.11	18.43	18.78	18.51
		1	25	21.56	21.49	21.62	19.76	19.69	19.82	19.16	19.09	19.22
		1	49	21.03	21.07	21.09	19.23	19.27	19.29	18.63	18.67	18.69
		25	0	19.88	20.14	19.93	18.08	18.34	18.13	17.48	17.74	17.53
		25	13	20.04	20.14	20.13	18.24	18.34	18.33	17.64	17.74	17.73
		25	25	19.79	20.11	19.88	17.99	18.31	18.08	17.39	17.71	17.48
		50	0	19.83	20.06	19.93	18.03	18.26	18.13	17.43	17.66	17.53
	Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)							
20825/2507.5					21100/2535	21375/2562.5	20825/2507.5	21100/2535	21375/2562.5	20825/2507.5	21100/2535	21375/2562.5
15MHz	QPSK	1	0	20.93	20.89	21.04	19.13	19.09	19.24	18.53	18.49	18.64
		1	38	21.18	21.04	21.48	19.38	19.24	19.68	18.78	18.64	19.08
		1	74	20.93	20.85	21.15	19.13	19.05	19.35	18.53	18.45	18.75
		36	0	21.11	21.11	21.26	19.31	19.31	19.46	18.71	18.71	18.86
		36	18	21.18	21.12	21.35	19.38	19.32	19.55	18.78	18.72	18.95
		36	39	21.06	21.09	21.25	19.26	19.29	19.45	18.66	18.69	18.85
		75	0	21.10	21.05	21.32	19.30	19.25	19.52	18.70	18.65	18.92
	16QAM	1	0	21.08	21.23	21.18	19.28	19.43	19.38	18.68	18.83	18.78
		1	38	21.19	21.48	21.26	19.39	19.68	19.46	18.79	19.08	18.86
		1	74	21.19	21.11	21.24	19.39	19.31	19.44	18.79	18.71	18.84
		36	0	21.09	21.11	21.14	19.29	19.31	19.34	18.69	18.71	18.74
		36	18	21.14	21.13	21.22	19.34	19.33	19.42	18.74	18.73	18.82
		36	39	21.09	21.10	21.17	19.29	19.30	19.37	18.69	18.70	18.77
		75	0	21.01	21.01	21.10	19.21	19.21	19.30	18.61	18.61	18.70
	64QAM	1	0	20.78	21.16	20.89	18.98	19.36	19.09	18.38	18.76	18.49
		1	38	21.54	21.46	21.60	19.74	19.66	19.80	19.14	19.06	19.20
		1	74	21.04	21.06	21.10	19.24	19.26	19.30	18.64	18.66	18.70
		36	0	19.87	20.16	19.94	18.07	18.36	18.14	17.47	17.76	17.54
		36	18	20.02	20.11	20.12	18.22	18.31	18.32	17.62	17.71	17.72
		36	39	19.77	20.07	19.85	17.97	18.27	18.05	17.37	17.67	17.45
		75	0	19.80	20.01	19.89	18.00	18.21	18.09	17.40	17.61	17.49
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)								
				20850/2510	21100/2535	21350/2560	20850/2510	21100/2535	21350/2560	20850/2510	21100/2535	21350/2560
20MHz	QPSK	1	0	20.90	20.85	21.01	19.10	19.05	19.21	18.50	18.45	18.61
		1	50	21.17	21.00	21.46	19.37	19.20	19.66	18.77	18.60	19.06
		1	99	20.91	20.84	21.12	19.11	19.04	19.32	18.51	18.44	18.72
		50	0	21.08	21.06	21.22	19.28	19.26	19.42	18.68	18.66	18.82



		50	25	21.16	21.08	21.32	19.36	19.28	19.52	18.76	18.68	18.92			
		50	50	21.03	21.04	21.21	19.23	19.24	19.41	18.63	18.64	18.81			
		100	0	21.07	21.00	21.28	19.27	19.20	19.48	18.67	18.60	18.88			
	16QAM		1	0	21.05	21.19	21.13	19.25	19.39	19.33	18.65	18.79	18.73		
			1	50	21.16	21.46	21.22	19.36	19.66	19.42	18.76	19.06	18.82		
			1	99	21.16	21.08	21.22	19.36	19.28	19.42	18.76	18.68	18.82		
			50	0	21.06	21.07	21.11	19.26	19.27	19.31	18.66	18.67	18.71		
			50	25	21.11	21.11	21.19	19.31	19.31	19.39	18.71	18.71	18.79		
			50	50	21.06	21.05	21.13	19.26	19.25	19.33	18.66	18.65	18.73		
			100	0	20.99	20.97	21.07	19.19	19.17	19.27	18.59	18.57	18.67		
			64QAM		1	0	20.76	21.12	20.84	18.96	19.32	19.04	18.36	18.72	18.44
					1	50	21.50	21.44	21.56	19.70	19.64	19.76	19.10	19.04	19.16
	1	99			20.98	21.00	21.04	19.18	19.20	19.24	18.58	18.60	18.64		
		50		0	19.82	20.08	19.87	18.02	18.28	18.07	17.42	17.68	17.47		
		50		25	19.98	20.07	20.06	18.18	18.27	18.26	17.58	17.67	17.66		
		50		50	19.74	20.02	19.81	17.94	18.22	18.01	17.34	17.62	17.41		
		100		0	19.78	19.97	19.86	17.98	18.17	18.06	17.38	17.57	17.46		

LTE Band 13				Maximum Output Power (dBm)			Main Antenna ERP (dBm)			Second Antenna ERP (dBm)		
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)								
				23205/779.5	23230/782	23255/784.5	23205/779.5	23230/782	23255/784.5	23205/779.5	23230/782	23255/784.5
5MHz	QPSK	1	0	24.31	24.36	24.31	16.66	16.71	16.66	16.36	16.41	16.36
		1	13	24.30	24.30	24.31	16.65	16.65	16.66	16.35	16.35	16.36
		1	24	24.27	24.26	24.28	16.62	16.61	16.63	16.32	16.31	16.33
		12	0	23.41	23.43	23.42	15.76	15.78	15.77	15.46	15.48	15.47
		12	6	23.35	23.37	23.36	15.70	15.72	15.71	15.40	15.42	15.41
		12	13	23.50	23.50	23.49	15.85	15.85	15.84	15.55	15.55	15.54
		25	0	23.37	23.43	23.41	15.72	15.78	15.76	15.42	15.48	15.46
	16QAM	1	0	23.75	23.77	23.79	16.10	16.12	16.14	15.80	15.82	15.84
		1	13	23.52	23.52	23.54	15.87	15.87	15.89	15.57	15.57	15.59
		1	24	23.79	23.82	23.79	16.14	16.17	16.14	15.84	15.87	15.84
		12	0	22.33	22.31	22.32	14.68	14.66	14.67	14.38	14.36	14.37
		12	6	22.17	22.16	22.17	14.52	14.51	14.52	14.22	14.21	14.22
		12	13	22.29	22.31	22.30	14.64	14.66	14.65	14.34	14.36	14.35
		25	0	22.46	22.48	22.47	14.81	14.83	14.82	14.51	14.53	14.52
	64QAM	1	0	22.73	22.75	22.73	15.08	15.10	15.08	14.78	14.80	14.78
		1	13	22.64	22.66	22.64	14.99	15.01	14.99	14.69	14.71	14.69
		1	24	22.63	22.62	22.59	14.98	14.97	14.94	14.68	14.67	14.64
		12	0	21.34	21.32	21.37	13.69	13.67	13.72	13.39	13.37	13.42
		12	6	21.11	21.10	21.11	13.46	13.45	13.46	13.16	13.15	13.16
		12	13	21.30	21.32	21.31	13.65	13.67	13.66	13.35	13.37	13.36



Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)										
				25	0	21.34	21.36	21.35	13.69	13.71	13.70	13.39	13.41	13.40
				/	23230/782	/	/	23230/782	/	/	23230/782	/		
10MHz	QPSK	1	0	/	24.29	/	/	16.64	/	/	16.34	/		
		1	25	/	24.30	/	/	16.65	/	/	16.35	/		
		1	49	/	24.24	/	/	16.59	/	/	16.29	/		
		25	0	/	23.39	/	/	15.74	/	/	15.44	/		
		25	13	/	23.33	/	/	15.68	/	/	15.38	/		
		25	25	/	23.46	/	/	15.81	/	/	15.51	/		
		50	0	/	23.36	/	/	15.71	/	/	15.41	/		
	16QAM	1	0	/	23.74	/	/	16.09	/	/	15.79	/		
		1	25	/	23.51	/	/	15.86	/	/	15.56	/		
		1	49	/	23.77	/	/	16.12	/	/	15.82	/		
		25	0	/	22.30	/	/	14.65	/	/	14.35	/		
		25	13	/	22.13	/	/	14.48	/	/	14.18	/		
		25	25	/	22.27	/	/	14.62	/	/	14.32	/		
		50	0	/	22.44	/	/	14.79	/	/	14.49	/		
	64QAM	1	0	/	22.68	/	/	15.03	/	/	14.73	/		
		1	25	/	22.61	/	/	14.96	/	/	14.66	/		
		1	49	/	22.57	/	/	14.92	/	/	14.62	/		
		25	0	/	21.31	/	/	13.66	/	/	13.36	/		
		25	13	/	21.07	/	/	13.42	/	/	13.12	/		
		25	25	/	21.28	/	/	13.63	/	/	13.33	/		
		50	0	/	21.32	/	/	13.67	/	/	13.37	/		

LTE Band 38				Maximum Output Power (dBm)			Main Antenna EIRP (dBm)			Second Antenna EIRP (dBm)		
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)								
				37775/2572.5	38000/2595	38225/2617.5	37775/2572.5	38000/2595	38225/2617.5	37775/2572.5	38000/2595	38225/2617.5
5MHz	QPSK	1	0	23.07	23.23	23.02	21.27	21.43	21.22	20.67	20.83	20.62
		1	13	23.42	23.05	23.35	21.62	21.25	21.55	21.02	20.65	20.95
		1	24	23.12	23.22	23.13	21.32	21.42	21.33	20.72	20.82	20.73
		12	0	22.74	22.90	22.71	20.94	21.10	20.91	20.34	20.50	20.31
		12	6	22.83	22.99	22.89	21.03	21.19	21.09	20.43	20.59	20.49
		12	13	22.82	22.93	22.75	21.02	21.13	20.95	20.42	20.53	20.35
	16QAM	25	0	22.77	22.95	22.78	20.97	21.15	20.98	20.37	20.55	20.38
		1	0	22.92	22.94	22.81	21.12	21.14	21.01	20.52	20.54	20.41
		1	13	22.86	23.01	23.01	21.06	21.21	21.21	20.46	20.61	20.61
		1	24	23.10	23.04	23.01	21.30	21.24	21.21	20.70	20.64	20.61
		12	0	21.76	21.81	21.66	19.96	20.01	19.86	19.36	19.41	19.26
		12	6	21.75	21.92	21.77	19.95	20.12	19.97	19.35	19.52	19.37



		12	13	21.85	21.79	21.88	20.05	19.99	20.08	19.45	19.39	19.48
		25	0	21.82	21.88	21.84	20.02	20.08	20.04	19.42	19.48	19.44
	64QAM	1	0	21.60	21.52	21.70	19.80	19.72	19.90	19.20	19.12	19.30
		1	13	21.79	21.71	21.77	19.99	19.91	19.97	19.39	19.31	19.37
		1	24	21.89	21.66	21.85	20.09	19.86	20.05	19.49	19.26	19.45
		12	0	20.67	20.79	20.66	18.87	18.99	18.86	18.27	18.39	18.26
		12	6	20.87	20.88	20.68	19.07	19.08	18.88	18.47	18.48	18.28
		12	13	20.78	20.84	20.86	18.98	19.04	19.06	18.38	18.44	18.46
		25	0	20.76	20.82	20.72	18.96	19.02	18.92	18.36	18.42	18.32
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)								
				37800/2575	38000/2595	38200/2615	37800/2575	38000/2595	38200/2615	37800/2575	38000/2595	38200/2615
10MHz	QPSK	1	0	23.09	23.24	23.05	21.29	21.44	21.25	20.69	20.84	20.65
		1	25	23.45	23.10	23.39	21.65	21.30	21.59	21.05	20.70	20.99
		1	49	23.14	23.26	23.16	21.34	21.46	21.36	20.74	20.86	20.76
		25	0	22.77	22.95	22.75	20.97	21.15	20.95	20.37	20.55	20.35
		25	13	22.86	23.04	22.93	21.06	21.24	21.13	20.46	20.64	20.53
		25	25	22.84	22.97	22.80	21.04	21.17	21.00	20.44	20.57	20.40
		50	0	22.81	22.97	22.82	21.01	21.17	21.02	20.41	20.57	20.42
	16QAM	1	0	22.96	22.97	22.83	21.16	21.17	21.03	20.56	20.57	20.43
		1	25	22.90	23.05	23.04	21.10	21.25	21.24	20.50	20.65	20.64
		1	49	23.13	23.06	23.04	21.33	21.26	21.24	20.73	20.66	20.64
		25	0	21.79	21.86	21.70	19.99	20.06	19.90	19.39	19.46	19.30
		25	13	21.77	21.96	21.80	19.97	20.16	20.00	19.37	19.56	19.40
		25	25	21.88	21.84	21.92	20.08	20.04	20.12	19.48	19.44	19.52
		50	0	21.85	21.93	21.88	20.05	20.13	20.08	19.45	19.53	19.48
	64QAM	1	0	21.62	21.51	21.72	19.82	19.71	19.92	19.22	19.11	19.32
		1	25	21.82	21.71	21.80	20.02	19.91	20.00	19.42	19.31	19.40
		1	49	21.88	21.68	21.88	20.08	19.88	20.08	19.48	19.28	19.48
		25	0	20.70	20.84	20.66	18.90	19.04	18.86	18.30	18.44	18.26
		25	13	20.89	20.92	20.71	19.09	19.12	18.91	18.49	18.52	18.31
		25	25	20.81	20.89	20.90	19.01	19.09	19.10	18.41	18.49	18.50
		50	0	20.79	20.87	20.76	18.99	19.07	18.96	18.39	18.47	18.36
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)								
				37825/2577.5	38000/2595	38175/2612.5	37825/2577.5	38000/2595	38175/2612.5	37825/2577.5	38000/2595	38175/2612.5
15MHz	QPSK	1	0	23.08	23.20	23.03	21.28	21.40	21.23	20.68	20.80	20.63
		1	38	23.43	23.09	23.36	21.63	21.29	21.56	21.03	20.69	20.96
		1	74	23.11	23.21	23.12	21.31	21.41	21.32	20.71	20.81	20.72
		36	0	22.75	22.91	22.72	20.95	21.11	20.92	20.35	20.51	20.32
		36	18	22.83	22.99	22.89	21.03	21.19	21.09	20.43	20.59	20.49
		36	39	22.81	22.94	22.76	21.01	21.14	20.96	20.41	20.54	20.36
		75	0	22.79	22.93	22.77	20.99	21.13	20.97	20.39	20.53	20.37



Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)								
				37850/2580	38000/2595	38150/2610	37850/2580	38000/2595	38150/2610	37850/2580	38000/2595	38150/2610
20MHz	16QAM	1	0	22.94	22.95	22.81	21.14	21.15	21.01	20.54	20.55	20.41
		1	38	22.88	23.02	23.02	21.08	21.22	21.22	20.48	20.62	20.62
		1	74	23.11	23.02	23.01	21.31	21.22	21.21	20.71	20.62	20.61
		36	0	21.76	21.84	21.67	19.96	20.04	19.87	19.36	19.44	19.27
		36	18	21.74	21.91	21.76	19.94	20.11	19.96	19.34	19.51	19.36
		36	39	21.86	21.80	21.89	20.06	20.00	20.09	19.46	19.40	19.49
		75	0	21.82	21.88	21.84	20.02	20.08	20.04	19.42	19.48	19.44
	64QAM	1	0	21.57	21.49	21.70	19.77	19.69	19.90	19.17	19.09	19.30
		1	38	21.80	21.68	21.78	20.00	19.88	19.98	19.40	19.28	19.38
		1	74	21.89	21.67	21.89	20.09	19.87	20.09	19.49	19.27	19.49
		36	0	20.69	20.86	20.67	18.89	19.06	18.87	18.29	18.46	18.27
		36	18	20.87	20.89	20.70	19.07	19.09	18.90	18.47	18.49	18.30
		36	39	20.79	20.85	20.87	18.99	19.05	19.07	18.39	18.45	18.47
		75	0	20.76	20.82	20.72	18.96	19.02	18.92	18.36	18.42	18.32
20MHz	QPSK	1	0	23.05	23.16	23.00	21.25	21.36	21.20	20.65	20.76	20.60
		1	50	23.42	23.05	23.34	21.62	21.25	21.54	21.02	20.65	20.94
		1	99	23.09	23.20	23.09	21.29	21.40	21.29	20.69	20.80	20.69
		50	0	22.72	22.86	22.68	20.92	21.06	20.88	20.32	20.46	20.28
		50	25	22.81	22.95	22.86	21.01	21.15	21.06	20.41	20.55	20.46
		50	50	22.78	22.89	22.72	20.98	21.09	20.92	20.38	20.49	20.32
		100	0	22.76	22.88	22.73	20.96	21.08	20.93	20.36	20.48	20.33
	16QAM	1	0	22.91	22.91	22.76	21.11	21.11	20.96	20.51	20.51	20.36
		1	50	22.85	23.00	22.98	21.05	21.20	21.18	20.45	20.60	20.58
		1	99	23.08	22.99	22.99	21.28	21.19	21.19	20.68	20.59	20.59
		50	0	21.73	21.80	21.64	19.93	20.00	19.84	19.33	19.40	19.24
		50	25	21.71	21.89	21.73	19.91	20.09	19.93	19.31	19.49	19.33
		50	50	21.83	21.75	21.85	20.03	19.95	20.05	19.43	19.35	19.45
		100	0	21.80	21.84	21.81	20.00	20.04	20.01	19.40	19.44	19.41
	64QAM	1	0	21.55	21.45	21.65	19.75	19.65	19.85	19.15	19.05	19.25
		1	50	21.76	21.66	21.74	19.96	19.86	19.94	19.36	19.26	19.34
		1	99	21.83	21.61	21.83	20.03	19.81	20.03	19.43	19.21	19.43
		50	0	20.64	20.78	20.60	18.84	18.98	18.80	18.24	18.38	18.20
		50	25	20.83	20.85	20.64	19.03	19.05	18.84	18.43	18.45	18.24
		50	50	20.76	20.80	20.83	18.96	19.00	19.03	18.36	18.40	18.43
		100	0	20.74	20.78	20.69	18.94	18.98	18.89	18.34	18.38	18.29



LTE Band 66				Maximum Output Power (dBm)			Main Antenna EIRP (dBm)			Second Antenna EIRP (dBm)		
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)								
				131979 /1710.7	132322 /1745	132665 /1779.3	131979 /1710.7	132322 /1745	132665 /1779.3	131979 /1710.7	132322 /1745	132665 /1779.3
1.4MHz	QPSK	1	0	23.00	23.22	23.01	20.00	20.22	20.01	19.50	19.72	19.51
		1	2	23.37	23.45	23.39	20.37	20.45	20.39	19.87	19.95	19.89
		1	5	23.41	23.55	23.45	20.41	20.55	20.45	19.91	20.05	19.95
		3	0	23.11	23.36	23.17	20.11	20.36	20.17	19.61	19.86	19.67
		3	2	23.16	23.41	23.38	20.16	20.41	20.38	19.66	19.91	19.88
		3	3	23.24	23.29	23.32	20.24	20.29	20.32	19.74	19.79	19.82
		6	0	22.19	22.39	22.11	19.19	19.39	19.11	18.69	18.89	18.61
	16QAM	1	0	21.95	22.43	22.25	18.95	19.43	19.25	18.45	18.93	18.75
		1	2	22.58	22.57	22.62	19.58	19.57	19.62	19.08	19.07	19.12
		1	5	22.77	22.81	22.75	19.77	19.81	19.75	19.27	19.31	19.25
		3	0	22.22	22.21	22.17	19.22	19.21	19.17	18.72	18.71	18.67
		3	2	22.24	22.38	22.23	19.24	19.38	19.23	18.74	18.88	18.73
		3	3	22.23	22.28	22.19	19.23	19.28	19.19	18.73	18.78	18.69
		6	0	21.17	21.36	21.21	18.17	18.36	18.21	17.67	17.86	17.71
	64QAM	1	0	21.48	21.34	21.44	18.48	18.34	18.44	17.98	17.84	17.94
		1	2	21.33	21.53	21.42	18.33	18.53	18.42	17.83	18.03	17.92
		1	5	21.59	21.85	21.74	18.59	18.85	18.74	18.09	18.35	18.24
		3	0	21.25	21.25	21.16	18.25	18.25	18.16	17.75	17.75	17.66
		3	2	21.24	21.40	21.21	18.24	18.40	18.21	17.74	17.90	17.71
		3	3	21.29	21.30	21.25	18.29	18.30	18.25	17.79	17.80	17.75
		6	0	20.27	20.42	20.31	17.27	17.42	17.31	16.77	16.92	16.81
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)								
				131987 /1711.50	132322 /1745	132657 /1778.5	131987 /1711.50	132322 /1745	132657 /1778.5	131987 /1711.50	132322 /1745	132657 /1778.5
3MHz	QPSK	1	0	22.97	23.17	22.98	19.97	20.17	19.98	19.47	19.67	19.48
		1	7	23.33	23.44	23.39	20.33	20.44	20.39	19.83	19.94	19.89
		1	14	23.38	23.53	23.41	20.38	20.53	20.41	19.88	20.03	19.91
		8	0	22.16	22.39	22.23	19.16	19.39	19.23	18.66	18.89	18.73
		8	4	22.24	22.43	22.42	19.24	19.43	19.42	18.74	18.93	18.92
		8	7	22.28	22.34	22.35	19.28	19.34	19.35	18.78	18.84	18.85
		15	0	22.18	22.35	22.07	19.18	19.35	19.07	18.68	18.85	18.57
	16QAM	1	0	21.94	22.38	22.20	18.94	19.38	19.20	18.44	18.88	18.70
		1	7	22.57	22.54	22.60	19.57	19.54	19.60	19.07	19.04	19.10
		1	14	22.74	22.78	22.72	19.74	19.78	19.72	19.24	19.28	19.22
		8	0	21.28	21.29	21.24	18.28	18.29	18.24	17.78	17.79	17.74
8		4	21.28	21.43	21.27	18.28	18.43	18.27	17.78	17.93	17.77	



		8	7	21.28	21.31	21.25	18.28	18.31	18.25	17.78	17.81	17.75
		15	0	21.16	21.32	21.16	18.16	18.32	18.16	17.66	17.82	17.66
	64QAM	1	0	21.43	21.29	21.39	18.43	18.29	18.39	17.93	17.79	17.89
		1	7	21.30	21.50	21.38	18.30	18.50	18.38	17.80	18.00	17.88
		1	14	21.56	21.77	21.71	18.56	18.77	18.71	18.06	18.27	18.21
		8	0	20.31	20.33	20.23	17.31	17.33	17.23	16.81	16.83	16.73
		8	4	20.28	20.45	20.25	17.28	17.45	17.25	16.78	16.95	16.75
		8	7	20.34	20.33	20.31	17.34	17.33	17.31	16.84	16.83	16.81
		15	0	20.26	20.38	20.26	17.26	17.38	17.26	16.76	16.88	16.76
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)								
				131997 /1712.5	132322 /1745	132647 /1777.5	131997 /1712.5	132322 /1745	132647 /1777.5	131997 /1712.5	132322 /1745	132647 /1777.5
5MHz	QPSK	1	0	22.94	23.15	22.94	19.94	20.15	19.94	19.44	19.65	19.44
		1	13	23.31	23.40	23.36	20.31	20.40	20.36	19.81	19.90	19.86
		1	24	23.35	23.48	23.37	20.35	20.48	20.37	19.85	19.98	19.87
		12	0	22.13	22.34	22.19	19.13	19.34	19.19	18.63	18.84	18.69
		12	6	22.22	22.39	22.37	19.22	19.39	19.37	18.72	18.89	18.87
		12	13	22.26	22.32	22.31	19.26	19.32	19.31	18.76	18.82	18.81
		25	0	22.18	22.34	22.05	19.18	19.34	19.05	18.68	18.84	18.55
	16QAM	1	0	21.94	22.34	22.17	18.94	19.34	19.17	18.44	18.84	18.67
		1	13	22.57	22.52	22.57	19.57	19.52	19.57	19.07	19.02	19.07
		1	24	22.71	22.76	22.68	19.71	19.76	19.68	19.21	19.26	19.18
		12	0	21.26	21.25	21.21	18.26	18.25	18.21	17.76	17.75	17.71
		12	6	21.25	21.38	21.23	18.25	18.38	18.23	17.75	17.88	17.73
		12	13	21.25	21.26	21.21	18.25	18.26	18.21	17.75	17.76	17.71
		25	0	21.14	21.28	21.11	18.14	18.28	18.11	17.64	17.78	17.61
	64QAM	1	0	21.40	21.29	21.36	18.40	18.29	18.36	17.90	17.79	17.86
		1	13	21.27	21.52	21.35	18.27	18.52	18.35	17.77	18.02	17.85
		1	24	21.57	21.75	21.67	18.57	18.75	18.67	18.07	18.25	18.17
		12	0	20.29	20.29	20.24	17.29	17.29	17.24	16.79	16.79	16.74
		12	6	20.25	20.40	20.21	17.25	17.40	17.21	16.75	16.90	16.71
		12	13	20.31	20.28	20.27	17.31	17.28	17.27	16.81	16.78	16.77
		25	0	20.24	20.34	20.21	17.24	17.34	17.21	16.74	16.84	16.71
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)								
				132022 /1715	132322 /1745	132622 /1775	132022 /1715	132322 /1745	132622 /1775	132022 /1715	132322 /1745	132622 /1775
10MHz	QPSK	1	0	22.96	23.16	22.97	19.96	20.16	19.97	19.46	19.66	19.47
		1	25	23.34	23.45	23.40	20.34	20.45	20.40	19.84	19.95	19.90
		1	49	23.37	23.52	23.40	20.37	20.52	20.40	19.87	20.02	19.90
		25	0	22.16	22.39	22.23	19.16	19.39	19.23	18.66	18.89	18.73
		25	13	22.25	22.44	22.41	19.25	19.44	19.41	18.75	18.94	18.91
		25	25	22.28	22.36	22.36	19.28	19.36	19.36	18.78	18.86	18.86
		50	0	22.22	22.36	22.09	19.22	19.36	19.09	18.72	18.86	18.59



	16QAM	1	0	21.98	22.37	22.19	18.98	19.37	19.19	18.48	18.87	18.69
		1	25	22.61	22.56	22.60	19.61	19.56	19.60	19.11	19.06	19.10
		1	49	22.74	22.78	22.71	19.74	19.78	19.71	19.24	19.28	19.21
		25	0	21.29	21.30	21.25	18.29	18.30	18.25	17.79	17.80	17.75
		25	13	21.27	21.42	21.26	18.27	18.42	18.26	17.77	17.92	17.76
		25	25	21.28	21.31	21.25	18.28	18.31	18.25	17.78	17.81	17.75
		50	0	21.17	21.33	21.15	18.17	18.33	18.15	17.67	17.83	17.65
	64QAM	1	0	21.42	21.28	21.38	18.42	18.28	18.38	17.92	17.78	17.88
		1	25	21.30	21.52	21.38	18.30	18.52	18.38	17.80	18.02	17.88
		1	49	21.56	21.77	21.70	18.56	18.77	18.70	18.06	18.27	18.20
		25	0	20.32	20.34	20.24	17.32	17.34	17.24	16.82	16.84	16.74
		25	13	20.27	20.44	20.24	17.27	17.44	17.24	16.77	16.94	16.74
		25	25	20.34	20.33	20.31	17.34	17.33	17.31	16.84	16.83	16.81
		50	0	20.27	20.39	20.25	17.27	17.39	17.25	16.77	16.89	16.75
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)								
				132047 /1717.5	132322 /1745	132597 /1772.5	132047 /1717.5	132322 /1745	132597 /1772.5	132047 /1717.5	132322 /1745	132597 /1772.5
15MHz	QPSK	1	0	22.95	23.12	22.95	19.95	20.12	19.95	19.45	19.62	19.45
		1	38	23.32	23.44	23.37	20.32	20.44	20.37	19.82	19.94	19.87
		1	74	23.34	23.47	23.36	20.34	20.47	20.36	19.84	19.97	19.86
		36	0	22.14	22.35	22.20	19.14	19.35	19.20	18.64	18.85	18.70
		36	18	22.22	22.39	22.37	19.22	19.39	19.37	18.72	18.89	18.87
		36	39	22.25	22.33	22.32	19.25	19.33	19.32	18.75	18.83	18.82
		75	0	22.20	22.32	22.04	19.20	19.32	19.04	18.70	18.82	18.54
	16QAM	1	0	21.96	22.35	22.17	18.96	19.35	19.17	18.46	18.85	18.67
		1	38	22.59	22.53	22.58	19.59	19.53	19.58	19.09	19.03	19.08
		1	74	22.72	22.74	22.68	19.72	19.74	19.68	19.22	19.24	19.18
		36	0	21.26	21.28	21.22	18.26	18.28	18.22	17.76	17.78	17.72
		36	18	21.24	21.37	21.22	18.24	18.37	18.22	17.74	17.87	17.72
		36	39	21.26	21.27	21.22	18.26	18.27	18.22	17.76	17.77	17.72
		75	0	21.14	21.28	21.11	18.14	18.28	18.11	17.64	17.78	17.61
	64QAM	1	0	21.37	21.26	21.36	18.37	18.26	18.36	17.87	17.76	17.86
		1	38	21.28	21.49	21.36	18.28	18.49	18.36	17.78	17.99	17.86
		1	74	21.57	21.76	21.71	18.57	18.76	18.71	18.07	18.26	18.21
		36	0	20.31	20.36	20.25	17.31	17.36	17.25	16.81	16.86	16.75
		36	18	20.25	20.41	20.23	17.25	17.41	17.23	16.75	16.91	16.73
		36	39	20.32	20.29	20.28	17.32	17.29	17.28	16.82	16.79	16.78
		75	0	20.24	20.34	20.21	17.24	17.34	17.21	16.74	16.84	16.71
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)								
				132072 /1720	132322 /1745	132572 /1770	132072 /1720	132322 /1745	132572 /1770	132072 /1720	132322 /1745	132572 /1770
20MHz	QPSK	1	0	22.92	23.08	22.92	19.92	20.08	19.92	19.42	19.58	19.42
		1	50	23.31	23.40	23.35	20.31	20.40	20.35	19.81	19.90	19.85



		1	99	23.32	23.46	23.33	20.32	20.46	20.33	19.82	19.96	19.83
		50	0	22.11	22.30	22.16	19.11	19.30	19.16	18.61	18.80	18.66
		50	25	22.20	22.35	22.34	19.20	19.35	19.34	18.70	18.85	18.84
		50	50	22.22	22.28	22.28	19.22	19.28	19.28	18.72	18.78	18.78
		100	0	22.17	22.27	22.00	19.17	19.27	19.00	18.67	18.77	18.50
	16QAM	1	0	21.93	22.31	22.12	18.93	19.31	19.12	18.43	18.81	18.62
		1	50	22.56	22.51	22.54	19.56	19.51	19.54	19.06	19.01	19.04
		1	99	22.69	22.71	22.66	19.69	19.71	19.66	19.19	19.21	19.16
		50	0	21.23	21.24	21.19	18.23	18.24	18.19	17.73	17.74	17.69
		50	25	21.21	21.35	21.19	18.21	18.35	18.19	17.71	17.85	17.69
		50	50	21.23	21.22	21.18	18.23	18.22	18.18	17.73	17.72	17.68
		100	0	21.12	21.24	21.08	18.12	18.24	18.08	17.62	17.74	17.58
	64QAM	1	0	21.35	21.22	21.31	18.35	18.22	18.31	17.85	17.72	17.81
		1	50	21.24	21.47	21.32	18.24	18.47	18.32	17.74	17.97	17.82
		1	99	21.51	21.70	21.65	18.51	18.70	18.65	18.01	18.20	18.15
		50	0	20.26	20.28	20.18	17.26	17.28	17.18	16.76	16.78	16.68
		50	25	20.21	20.37	20.17	17.21	17.37	17.17	16.71	16.87	16.67
		50	50	20.29	20.24	20.24	17.29	17.24	17.24	16.79	16.74	16.74
		100	0	20.22	20.30	20.18	17.22	17.30	17.18	16.72	16.80	16.68

6.2 Occupied Bandwidth

Mode	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth(MHz)
WCDMA Band IV (RMC)	1312	1712.4	4.1222	4.693
	1413	1732.6	4.1472	4.698
	1513	1752.6	4.1323	4.694

LTE Band 4						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	19957	1710.7	1.102	1.291
			20175	1732.5	1.097	1.288
			20393	1754.3	1.096	1.288
		3	19965	1711.5	2.708	2.984
			20175	1732.5	2.700	2.971
			20385	1753.5	2.702	2.974
		5	19975	1712.5	4.519	5.029
			20175	1732.5	4.517	4.994
			20375	1752.5	4.504	4.949
		10	20000	1715	8.978	9.788
			20175	1732.5	8.990	9.885
			20350	1750	9.013	9.895
		15	20025	1717.5	13.457	14.654
			20175	1732.5	13.462	14.526
			20325	1747.5	13.423	14.591
		20	20050	1720	17.862	19.259
			20175	1732.5	17.991	19.339
			20300	1745	17.944	19.383
	16QAM	1.4	19957	1710.7	1.097	1.268
			20175	1732.5	1.100	1.296
			20393	1754.3	1.090	1.279
		3	19965	1711.5	2.706	2.960
			20175	1732.5	2.699	3.006
			20385	1753.5	2.699	2.969
5		19975	1712.5	4.506	4.976	
		20175	1732.5	4.534	5.000	
		20375	1752.5	4.511	4.965	
10		20000	1715	8.990	9.855	



			20175	1732.5	8.986	9.831	
			20350	1750	8.994	9.752	
			20025	1717.5	13.407	14.634	
		15	20175	1732.5	13.469	14.592	
			20325	1747.5	13.470	14.506	
			20050	1720	17.872	19.184	
		20	20175	1732.5	18.041	19.584	
			20300	1745	17.958	19.231	
			19957	1710.7	1.099	1.294	
		64QAM	1.4	20175	1732.5	1.099	1.282
				20393	1754.3	1.093	1.281
				19965	1711.5	2.690	3.012
			3	20175	1732.5	2.708	2.954
				20385	1753.5	2.692	2.966
				19975	1712.5	4.503	4.982
	5		20175	1732.5	4.524	4.999	
			20375	1752.5	4.519	4.945	
			20000	1715	8.986	9.781	
	10		20175	1732.5	8.984	9.663	
			20350	1750	8.969	9.741	
			20025	1717.5	13.424	14.607	
	15		20175	1732.5	13.446	14.529	
			20325	1747.5	13.470	14.567	
			20050	1720	17.951	19.554	
	20		20175	1732.5	17.959	19.438	
			20300	1745	17.997	19.563	

LTE Band 7						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	20775	2502.5	4.509	4.936
			21100	2535	4.527	4.956
			21425	2567.5	4.517	4.993
		10	20800	2505	8.971	9.877
			21100	2535	9.004	9.783
			21400	2565	8.961	9.917
		15	20825	2507.5	13.482	14.837
			21100	2535	13.431	14.495
			21375	2562.5	13.432	14.637
		20	20850	2510	17.983	19.398



			21100	2535	17.970	19.461
			21350	2560	17.914	19.468
	16QAM	5	20775	2502.5	4.515	5.000
			21100	2535	4.496	4.945
			21425	2567.5	4.512	4.959
		10	20800	2505	8.967	9.867
			21100	2535	9.004	9.832
			21400	2565	8.974	9.780
		15	20825	2507.5	13.483	14.702
			21100	2535	13.446	14.654
			21375	2562.5	13.459	14.606
		20	20850	2510	18.012	19.400
			21100	2535	17.957	19.287
			21350	2560	17.908	19.367
	64QAM	5	20775	2502.5	4.513	4.977
			21100	2535	4.503	4.954
			21425	2567.5	4.520	5.037
		10	20800	2505	9.006	9.801
			21100	2535	8.982	9.713
			21400	2565	8.971	9.696
		15	20825	2507.5	13.456	14.706
			21100	2535	13.442	14.634
			21375	2562.5	13.446	14.679
		20	20850	2510	18.051	19.304
21100			2535	17.980	19.416	
21350			2560	17.947	19.322	

LTE Band 13								
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)		
100%	QPSK	5	23205	779.5	4.510	4.943		
			23230	782	4.547	4.964		
			23255	784.5	4.529	4.903		
	16QAM	10	23230	782	8.985	9.830		
				5	23205	779.5	4.517	5.041
					23230	782	4.533	4.889
		23255	784.5		4.510	4.964		
		64QAM	5	23230	782	8.954	9.764	
					23205	779.5	4.529	5.022
	23230				782	4.502	4.962	



		23255	784.5	4.531	4.925
	10	23230	782	8.968	9.802

LTE Band 38						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	37775	2572.5	4.510	5.295
			38000	2595	4.521	5.408
			38225	2617.5	4.524	5.005
		10	37800	2575	8.967	9.674
			38000	2595	8.950	9.734
			38200	2615	8.997	9.681
		15	37825	2577.5	13.506	14.639
			38000	2595	13.462	14.464
			38175	2612.5	13.437	14.639
		20	37850	2580	17.945	19.794
			38000	2595	17.960	19.280
			38150	2610	17.962	19.399
	16QAM	5	37775	2572.5	4.507	4.926
			38000	2595	4.498	4.899
			38225	2617.5	4.520	4.942
		10	37800	2575	8.969	9.722
			38000	2595	8.984	9.733
			38200	2615	8.993	9.938
		15	37825	2577.5	13.459	14.511
			38000	2595	13.464	14.691
			38175	2612.5	13.473	14.824
		20	37850	2580	17.984	19.242
			38000	2595	17.908	19.156
			38150	2610	17.941	19.400
	64QAM	5	37775	2572.5	4.523	4.910
			38000	2595	4.506	4.926
			38225	2617.5	4.474	5.049
		10	37800	2575	8.989	9.729
			38000	2595	8.980	9.621
			38200	2615	8.985	10.033
		15	37825	2577.5	13.475	15.150
			38000	2595	13.449	14.680
			38175	2612.5	13.478	14.681
		20	37850	2580	17.916	19.410



			38000	2595	17.899	19.317
			38150	2610	17.923	19.552

LTE Band 66						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	131979	1710.7	1.097	1.279
			132322	1745	1.096	1.281
			132665	1779.3	1.093	1.291
		3	131987	1711.5	2.693	2.965
			132322	1745	2.708	2.976
			132657	1778.5	2.707	2.981
		5	131997	1712.5	4.508	4.974
			132322	1745	4.522	5.012
			132647	1777.5	4.508	4.993
		10	132022	1715	8.992	9.734
			132322	1745	8.986	9.755
			132622	1775	8.969	9.814
		15	132047	1717.5	13.446	14.570
			132322	1745	13.441	14.689
			132597	1772.5	13.460	14.659
		20	132072	1720	17.939	19.258
			132322	1745	17.931	19.363
			132572	1770	18.001	19.490
	16QAM	1.4	131979	1710.7	1.098	1.309
			132322	1745	1.105	1.305
			132665	1779.3	1.093	1.296
		3	131987	1711.5	2.691	2.947
			132322	1745	2.698	2.987
			132657	1778.5	2.696	2.972
5		131997	1712.5	4.499	4.986	
		132322	1745	4.525	4.978	
		132647	1777.5	4.520	5.007	
10		132022	1715	8.963	9.790	
		132322	1745	8.960	9.723	
		132622	1775	8.982	9.866	
15		132047	1717.5	13.450	14.528	
		132322	1745	13.472	14.551	
		132597	1772.5	13.478	14.635	
20		132072	1720	17.905	19.357	



			132322	1745	17.923	19.667
			132572	1770	17.984	19.385
64QAM	1.4		131979	1710.7	1.102	1.291
			132322	1745	1.102	1.285
			132665	1779.3	1.093	1.275
	3		131987	1711.5	2.706	3.024
			132322	1745	2.701	2.958
			132657	1778.5	2.697	3.006
	5		131997	1712.5	4.508	5.002
			132322	1745	4.510	4.990
			132647	1777.5	4.541	5.023
	10		132022	1715	8.993	9.701
			132322	1745	8.961	9.760
			132622	1775	8.994	9.936
	15		132047	1717.5	13.418	14.672
			132322	1745	13.479	14.615
			132597	1772.5	13.492	14.414
	20		132072	1720	17.887	19.318
			132322	1745	17.954	19.470
			132572	1770	17.960	19.312



WCDMA Band IV CH-Low



WCDMA Band IV CH Middle

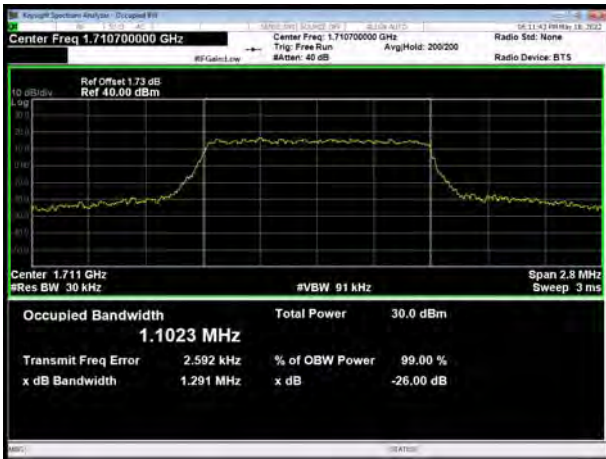


WCDMA Band IV CH High

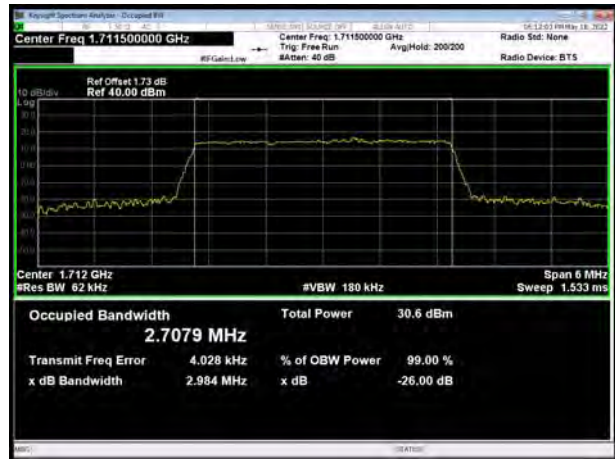




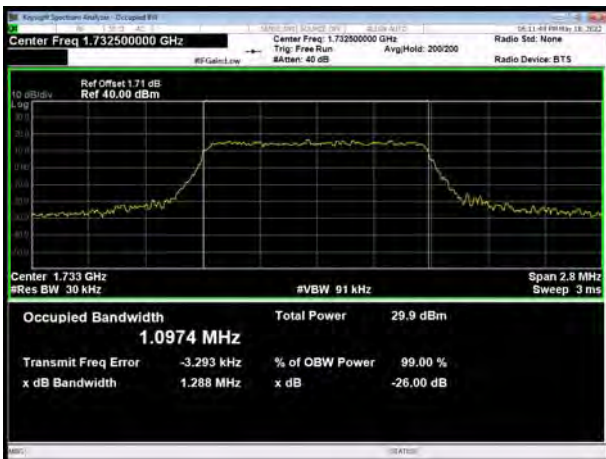
LTE Band 4 QPSK 1.4MHz CH-Low



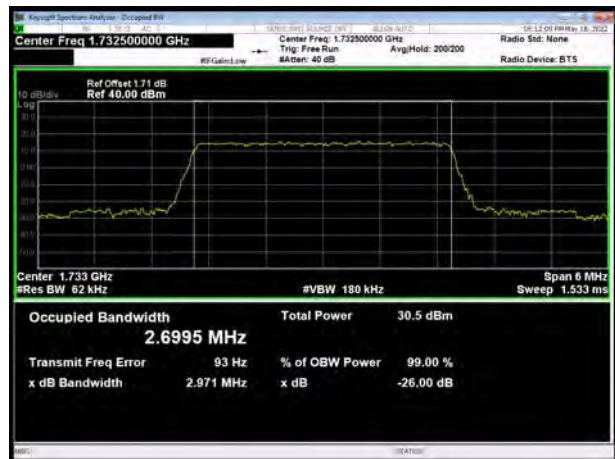
LTE Band 4 QPSK 3MHz CH-Low



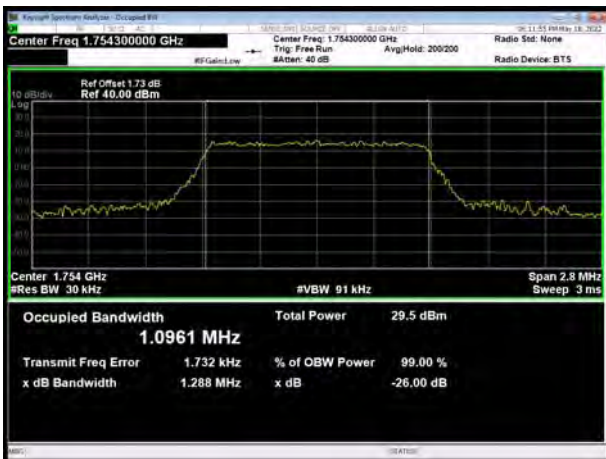
LTE Band 4 QPSK 1.4MHz CH-Middle



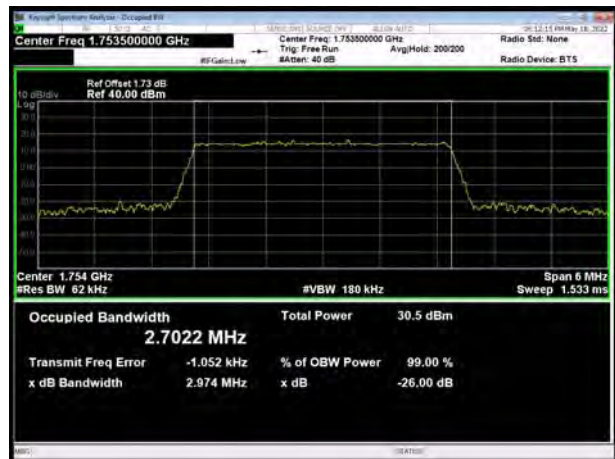
LTE Band 4 QPSK 3MHz CH-Middle



LTE Band 4 QPSK 1.4MHz CH-High



LTE Band 4 QPSK 3MHz CH-High



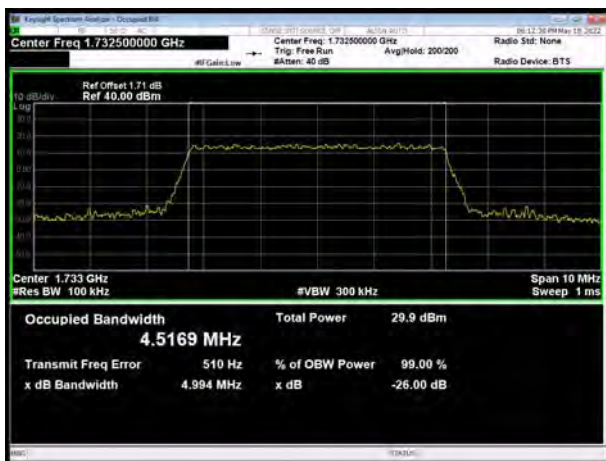
LTE Band 4 QPSK 5MHz CH-Low



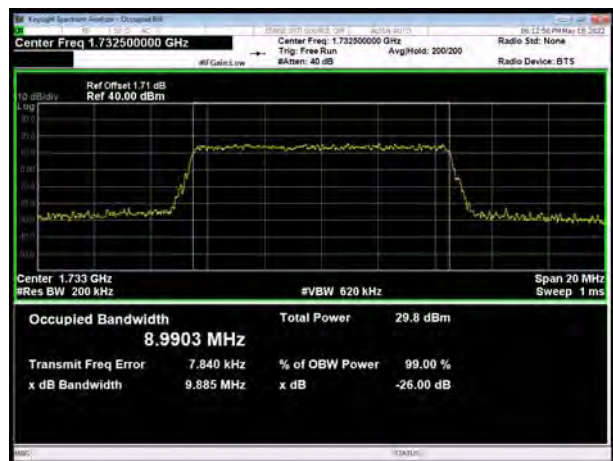
LTE Band 4 QPSK 10MHz CH-Low



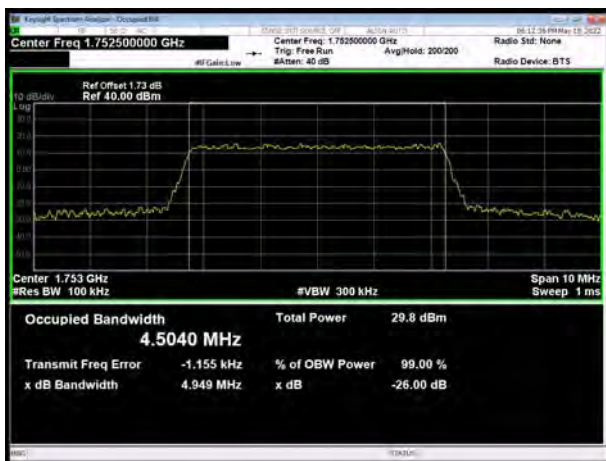
LTE Band 4 QPSK 5MHz CH-Middle



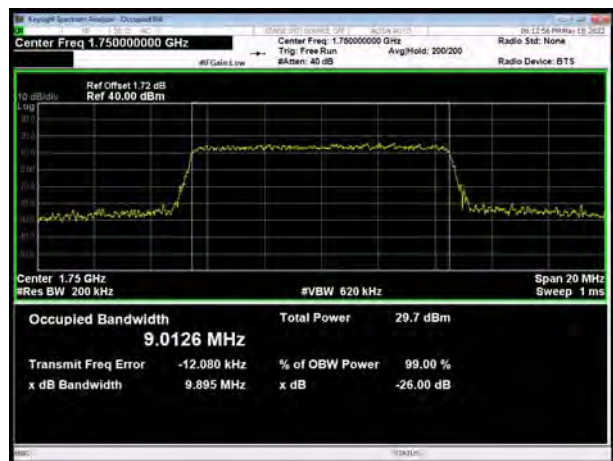
LTE Band 4 QPSK 10MHz CH-Middle



LTE Band 4 QPSK 5MHz CH-High

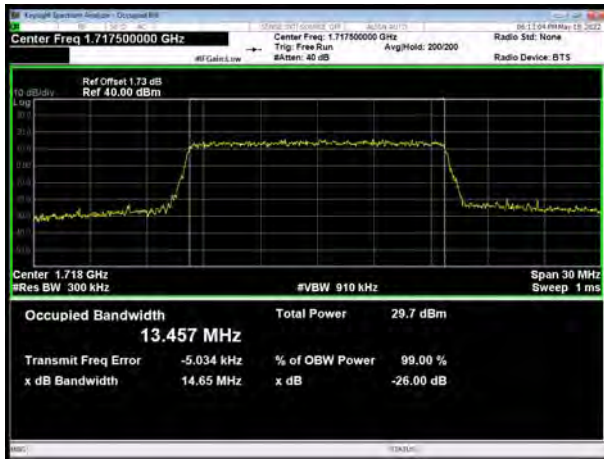


LTE Band 4 QPSK 10MHz CH-High

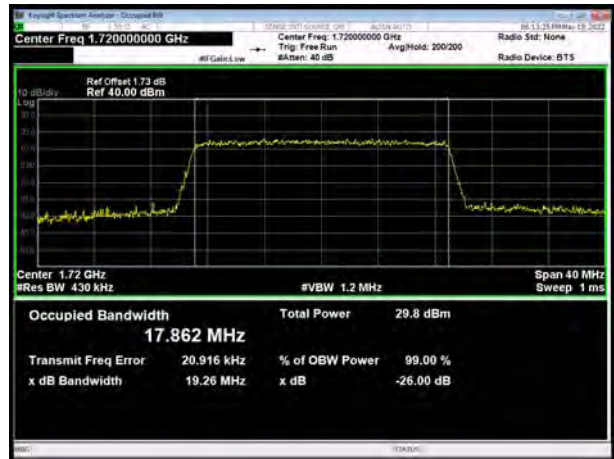




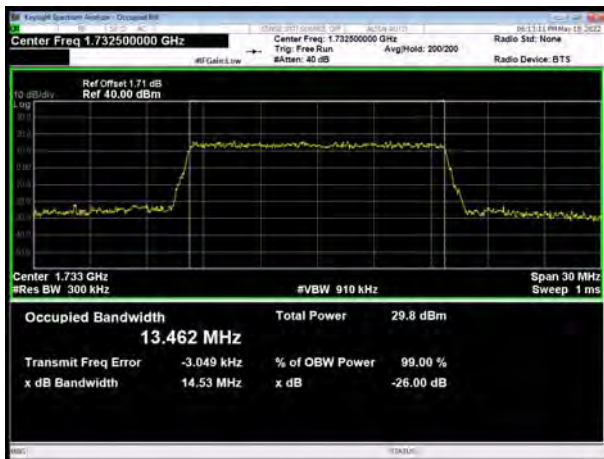
LTE Band 4 QPSK 15MHz CH-Low



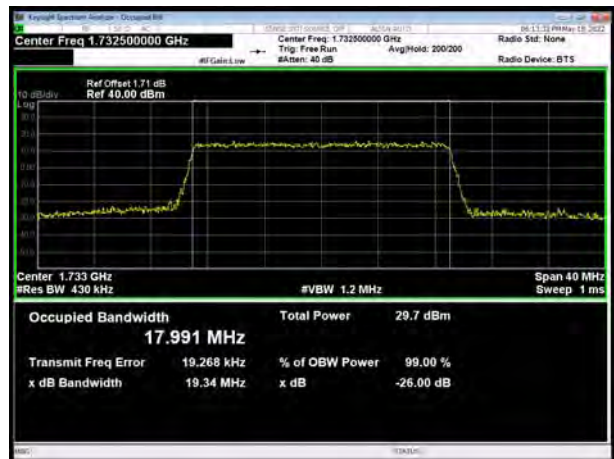
LTE Band 4 QPSK 20MHz CH-Low



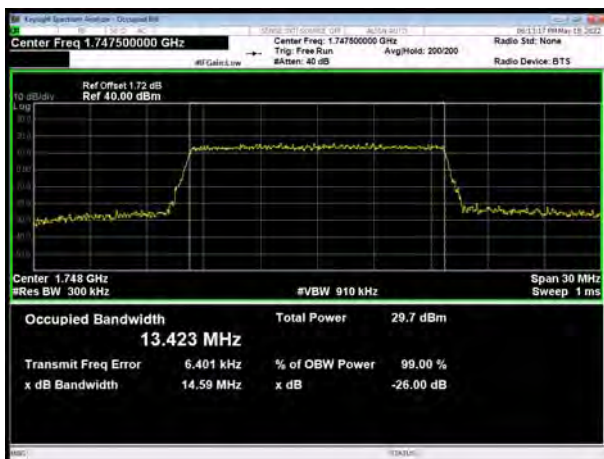
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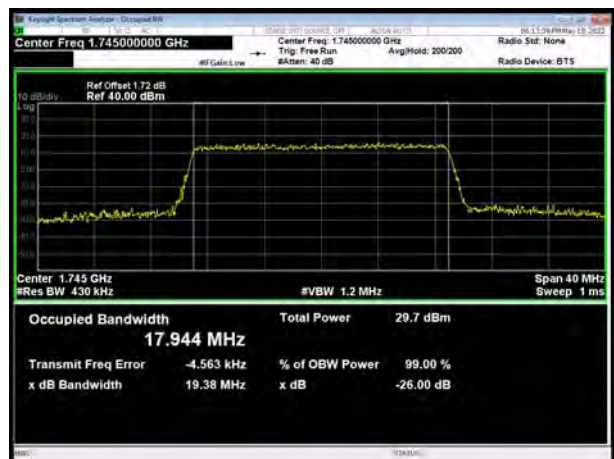
LTE Band 4 QPSK 20MHz CH-Middle



LTE Band 4 QPSK 15MHz CH-High

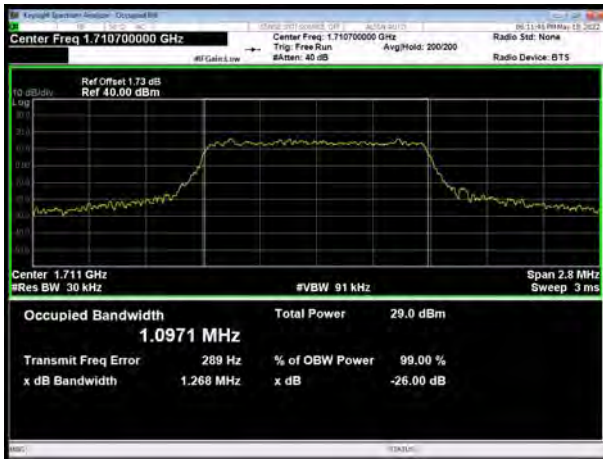


LTE Band 4 QPSK 20MHz CH-High

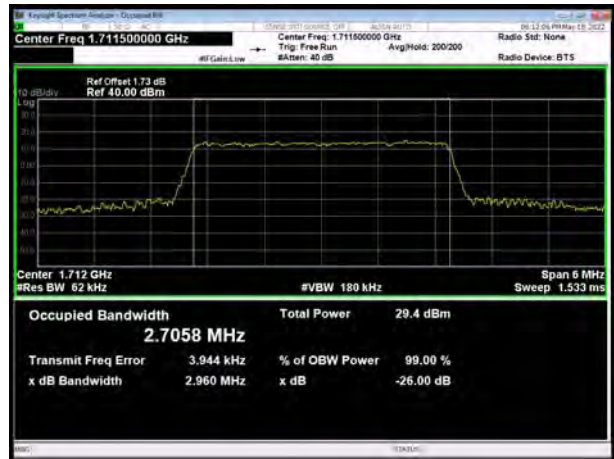




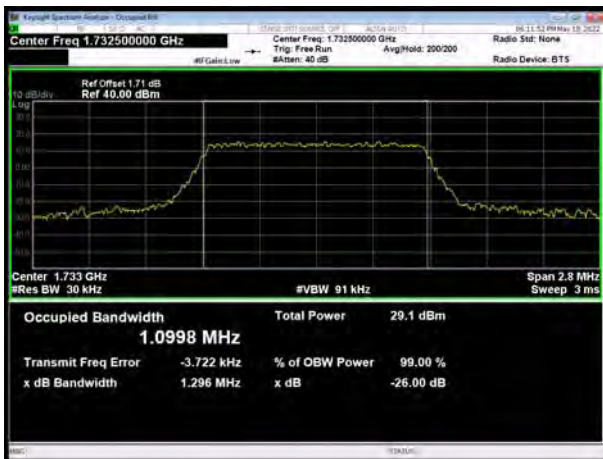
LTE Band 4 16QAM 1.4MHz CH-Low



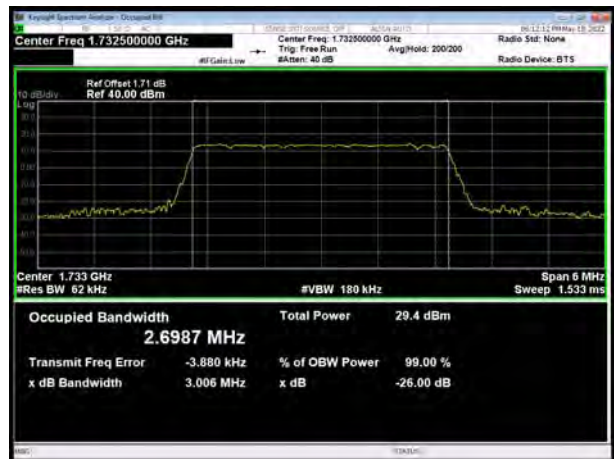
LTE Band 4 16QAM 3MHz CH-Low



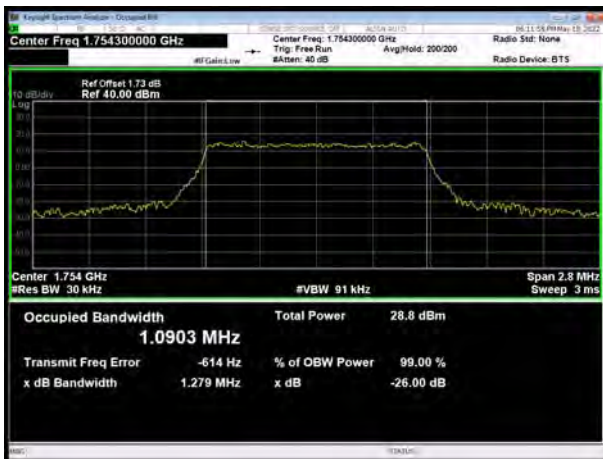
LTE Band 4 16QAM 1.4MHz CH-Middle



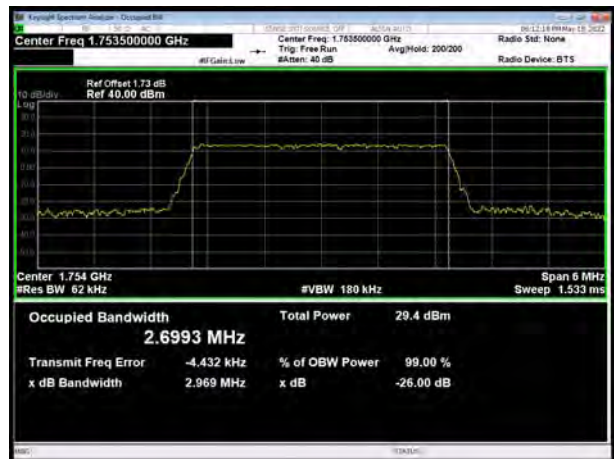
LTE Band 4 16QAM 3MHz CH-Middle



LTE Band 4 16QAM 1.4MHz CH-High



LTE Band 4 16QAM 3MHz CH-High

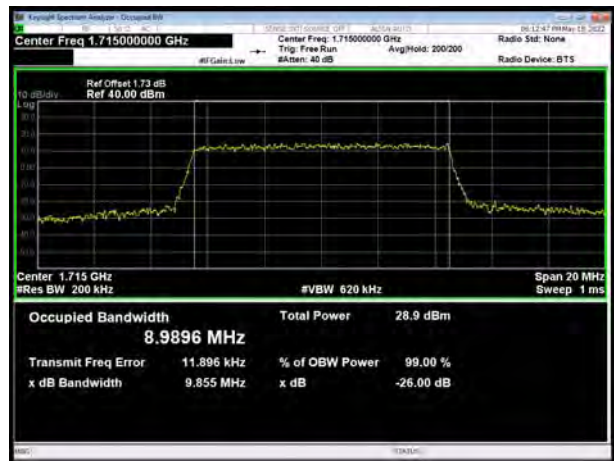




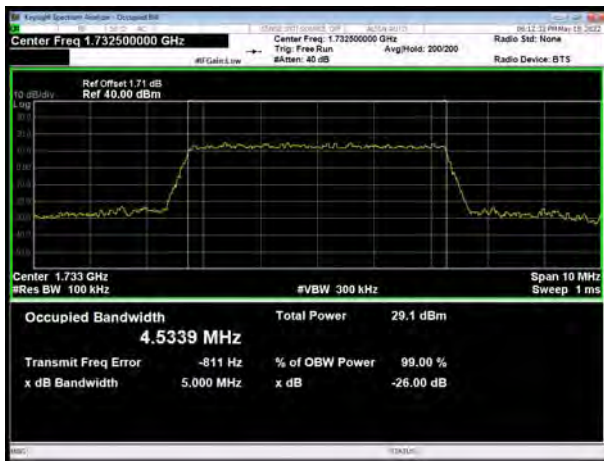
LTE Band 4 16QAM 5MHz CH-Low



LTE Band 4 16QAM 10MHz CH-Low



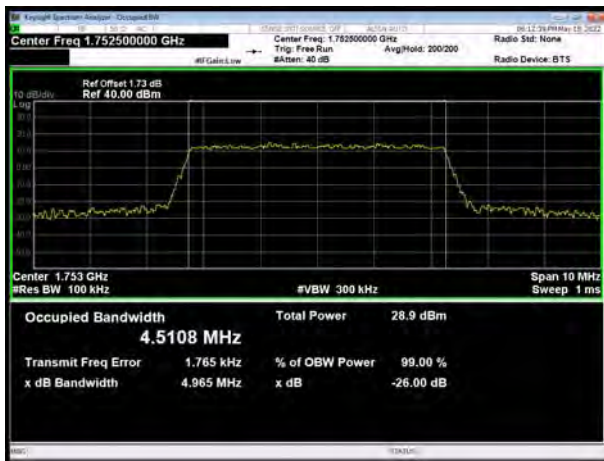
LTE Band 4 16QAM 5MHz CH-Middle



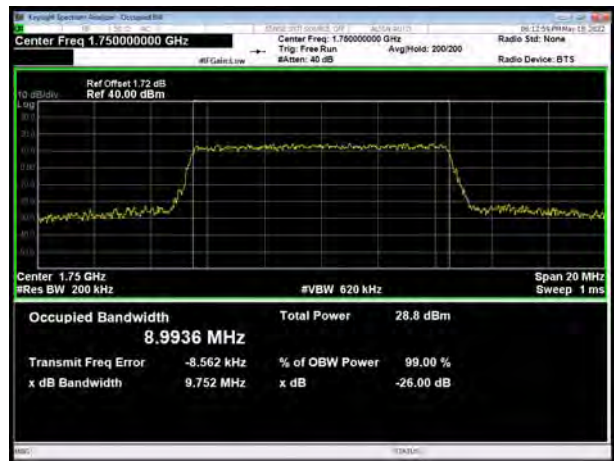
LTE Band 4 16QAM 10MHz CH-Middle



LTE Band 4 16QAM 5MHz CH-High

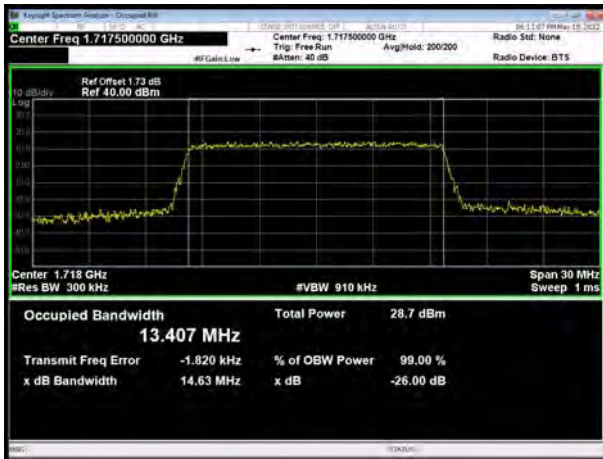


LTE Band 4 16QAM 10MHz CH-High

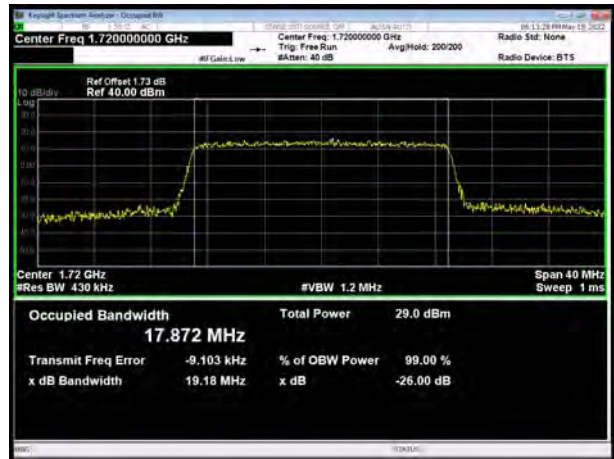




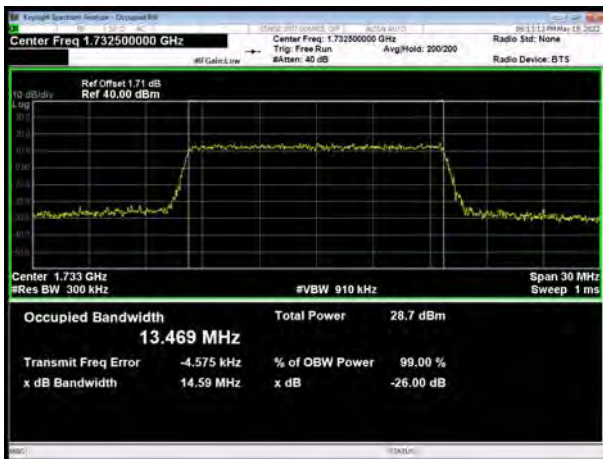
LTE Band 4 16QAM 15MHz CH-Low



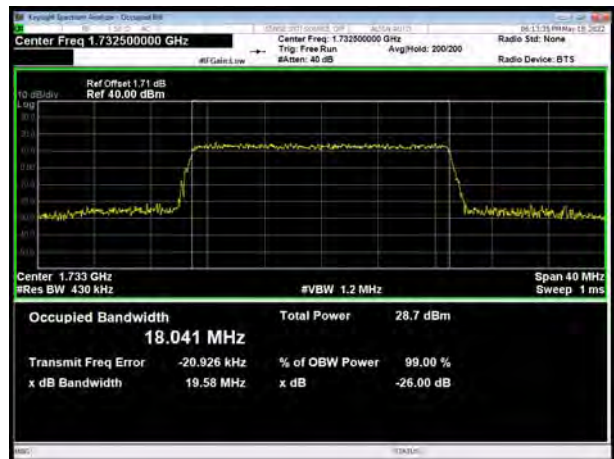
LTE Band 4 16QAM 20MHz CH-Low



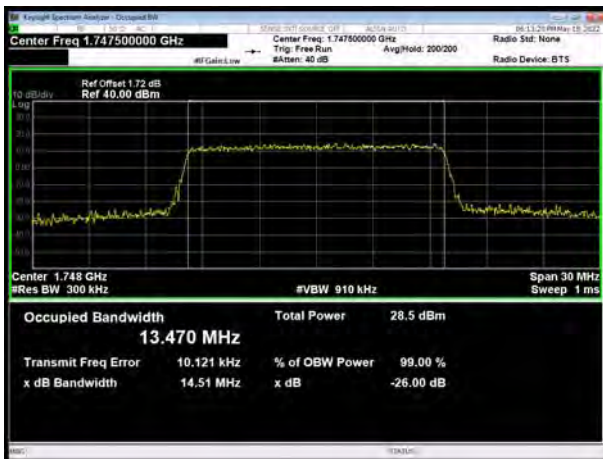
LTE Band 4 16QAM 15MHz CH-Middle



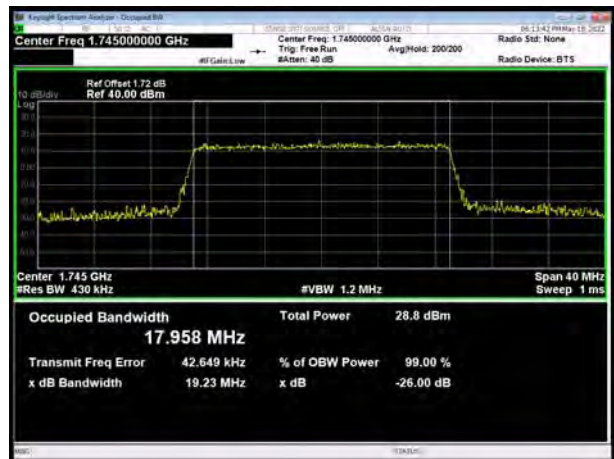
LTE Band 4 16QAM 20MHz CH-Middle



LTE Band 4 16QAM 15MHz CH-High



LTE Band 4 16QAM 20MHz CH-High





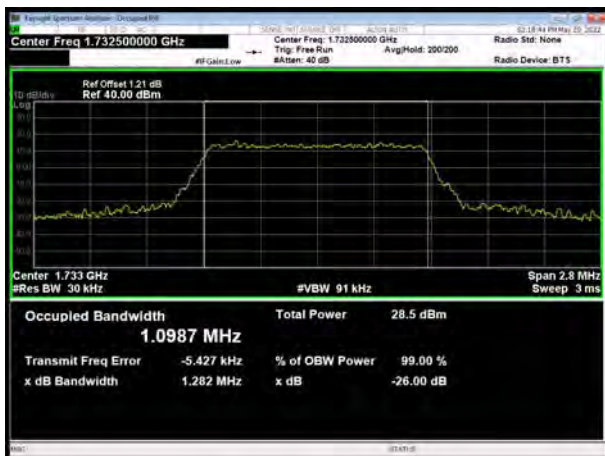
LTE Band 4 1.4MHz 64QAM CH-Low



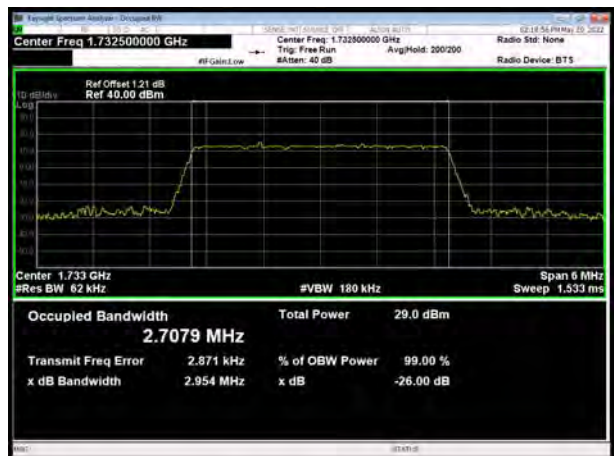
LTE Band 4 3MHz 64QAM CH-Low



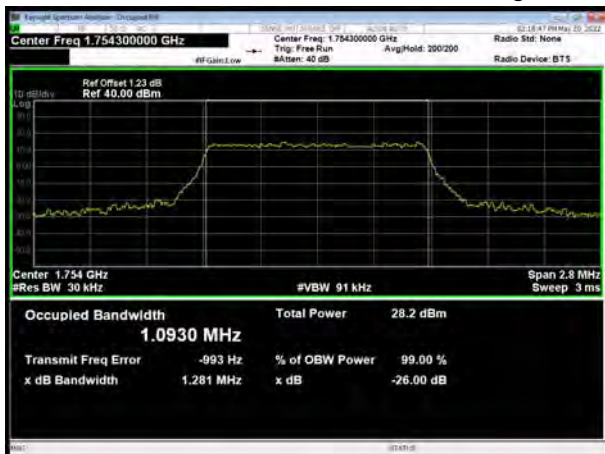
LTE Band 4 1.4MHz 64QAM CH-Middle



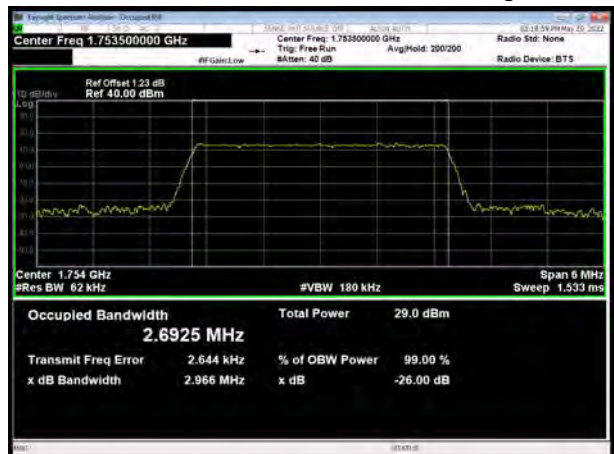
LTE Band 4 3MHz 64QAM CH-Middle



LTE Band 4 1.4MHz 64QAM CH-High

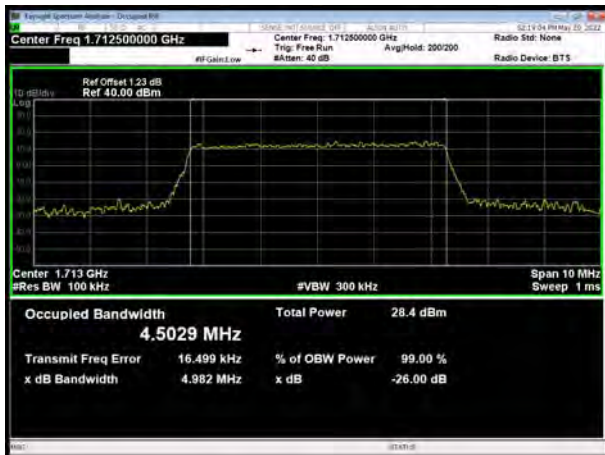


LTE Band 4 3MHz 64QAM CH-High

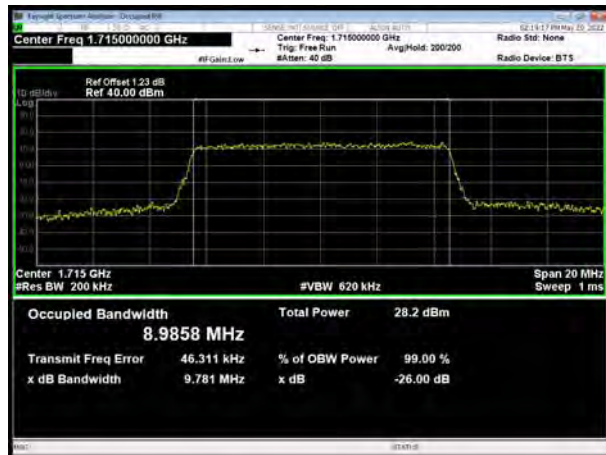




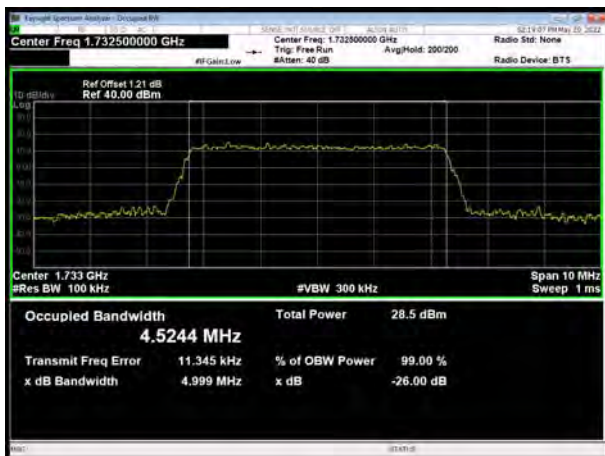
LTE Band 4 5MHz 64QAM CH-Low



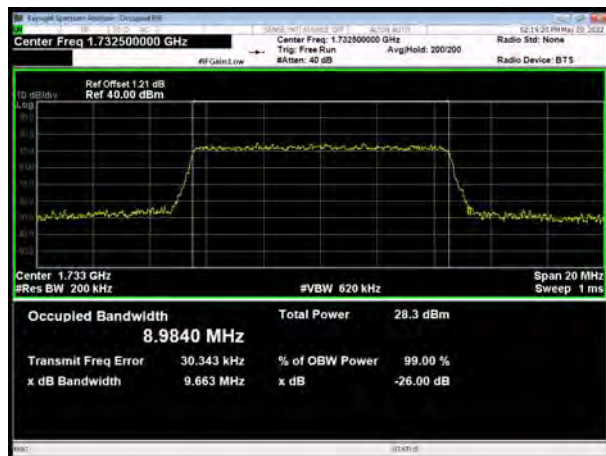
LTE Band 4 10MHz 64QAM CH-Low



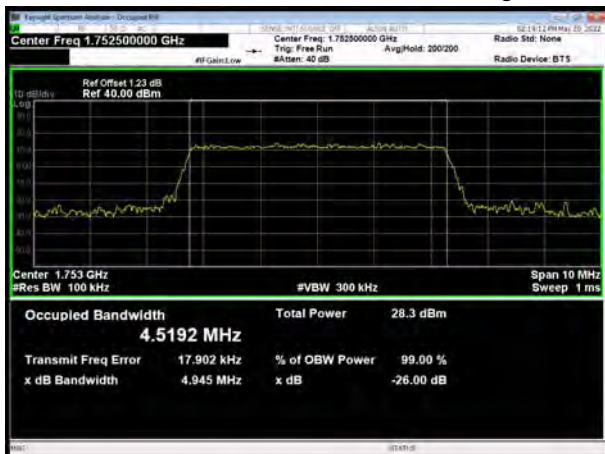
LTE Band 4 5MHz 64QAM CH-Middle



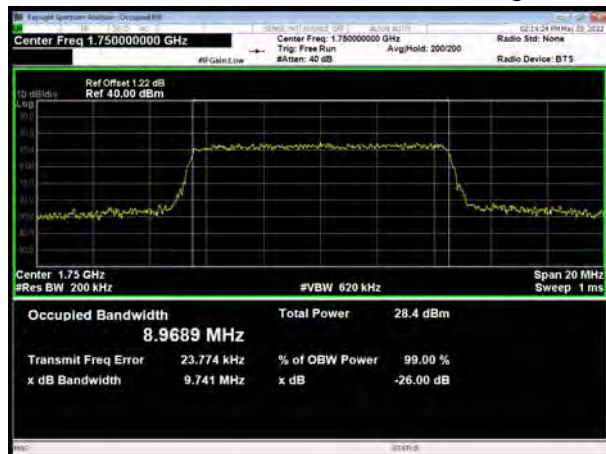
LTE Band 4 10MHz 64QAM CH-Middle



LTE Band 4 5MHz 64QAM CH-High

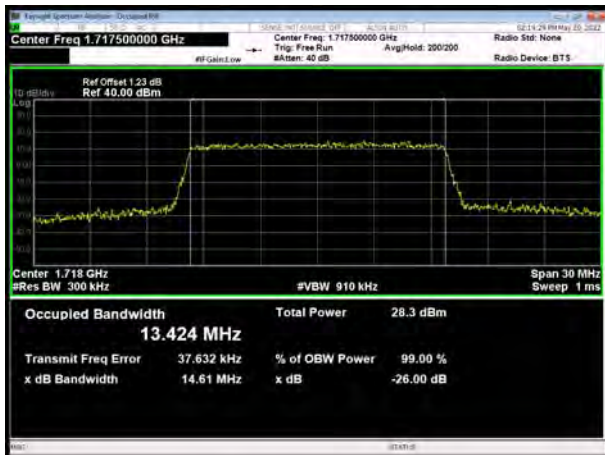


LTE Band 4 10MHz 64QAM CH-High

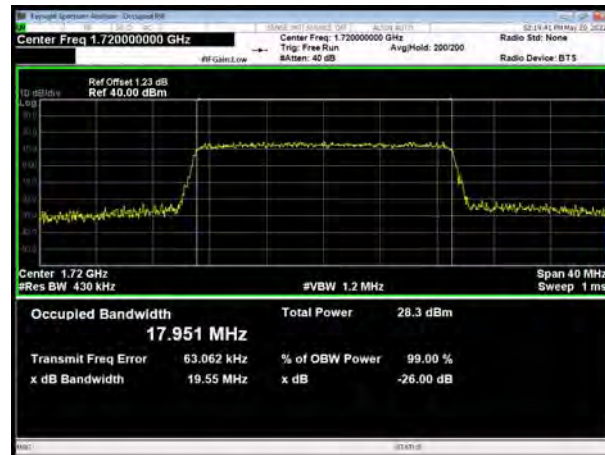




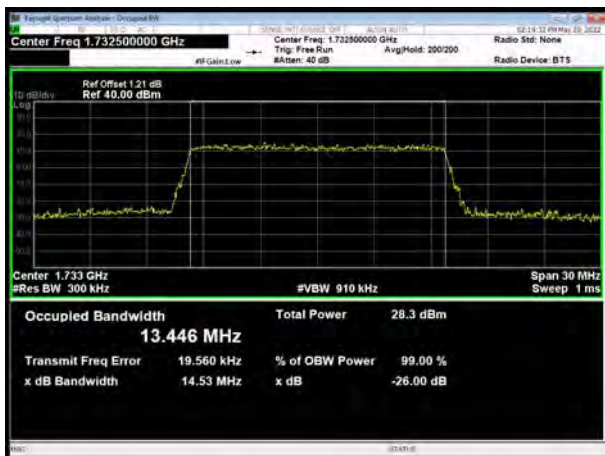
LTE Band 4 15MHz 64QAM CH-Low



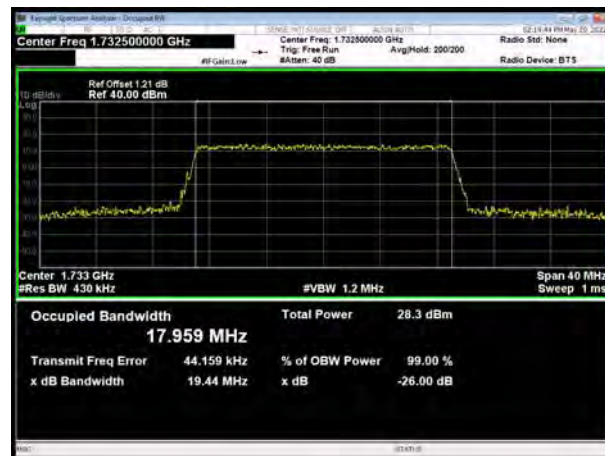
LTE Band 4 20MHz 64QAM CH-Low



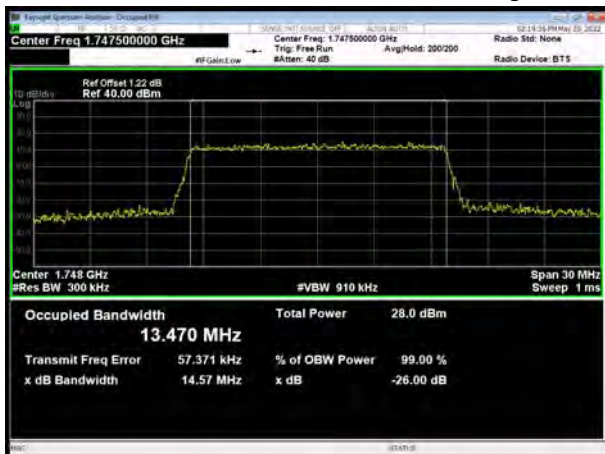
LTE Band 4 15MHz 64QAM CH-Middle



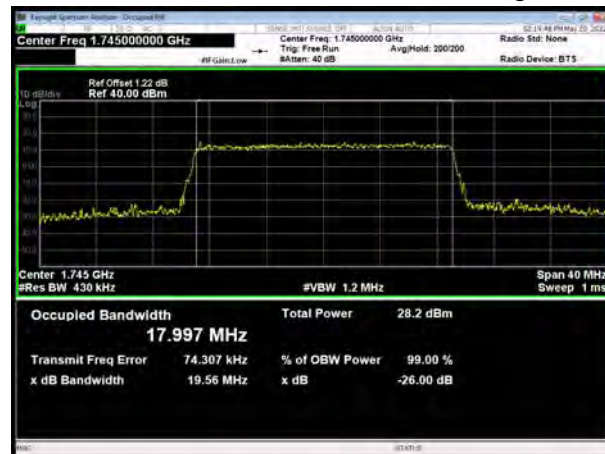
LTE Band 4 20MHz 64QAM CH-Middle



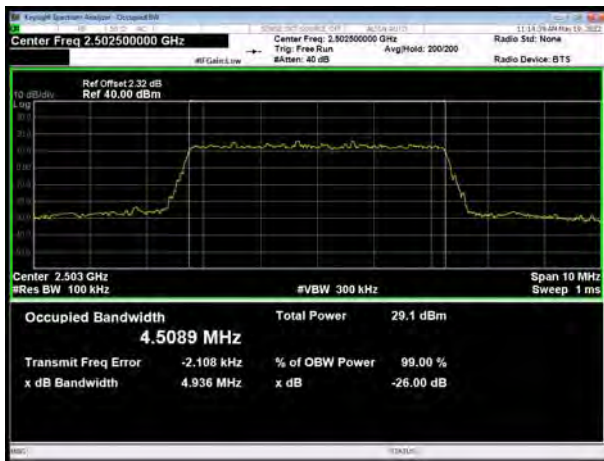
LTE Band 4 15MHz 64QAM CH-High



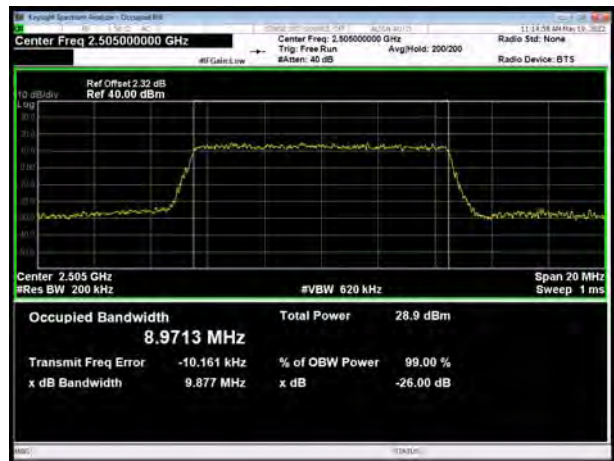
LTE Band 4 20MHz 64QAM CH-High



LTE Band 7 QPSK 5MHz CH-Low



LTE Band 7 QPSK 10MHz CH-Low



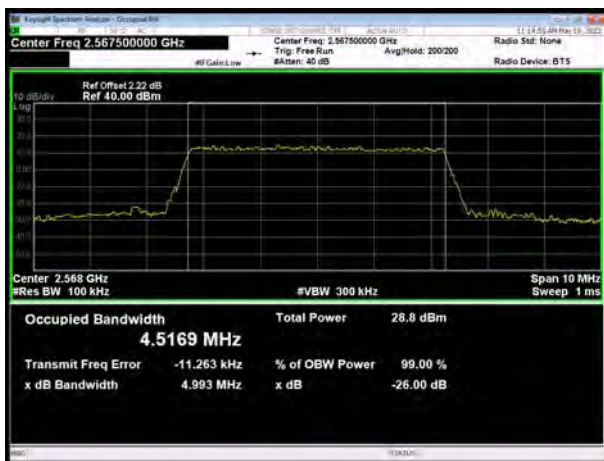
LTE Band 7 QPSK 5MHz CH-Middle



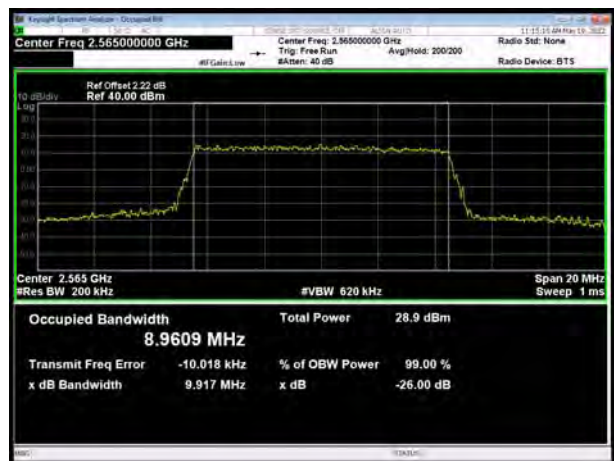
LTE Band 7 QPSK 10MHz CH-Middle



LTE Band 7 QPSK 5MHz CH-High

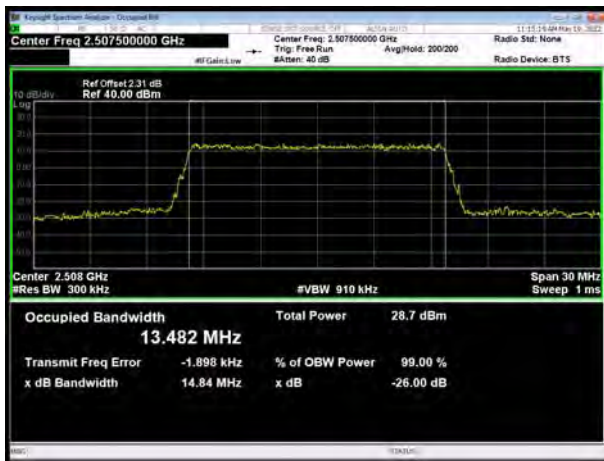


LTE Band 7 QPSK 10MHz CH-High





LTE Band 7 QPSK 15MHz CH-Low



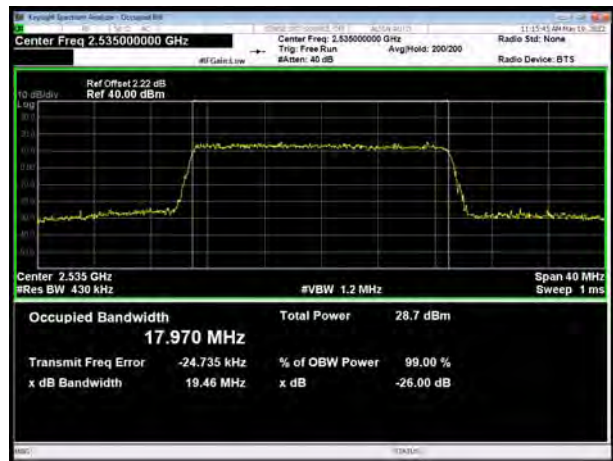
LTE Band 7 QPSK 20MHz CH-Low



LTE Band 7 QPSK 15MHz CH-Middle



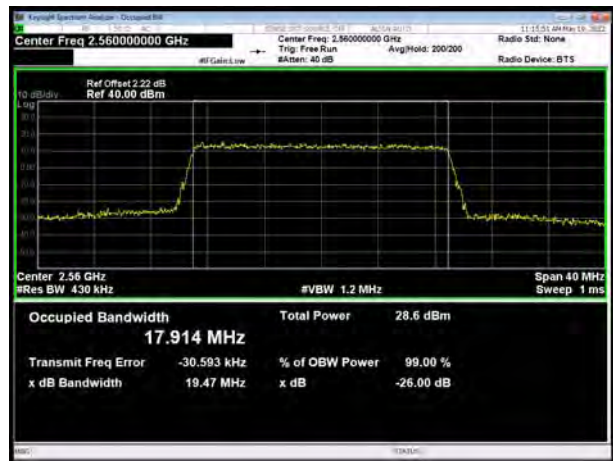
LTE Band 7 QPSK 20MHz CH-Middle



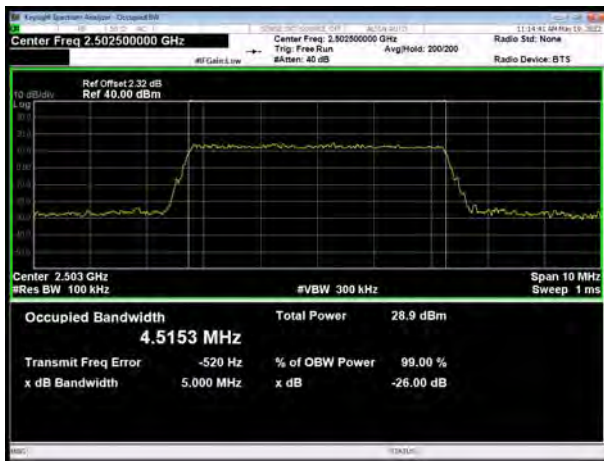
LTE Band 7 QPSK 15MHz CH-High



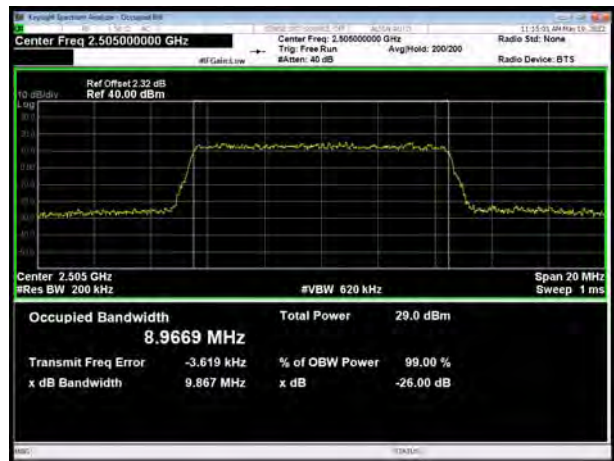
LTE Band 7 QPSK 20MHz CH-High



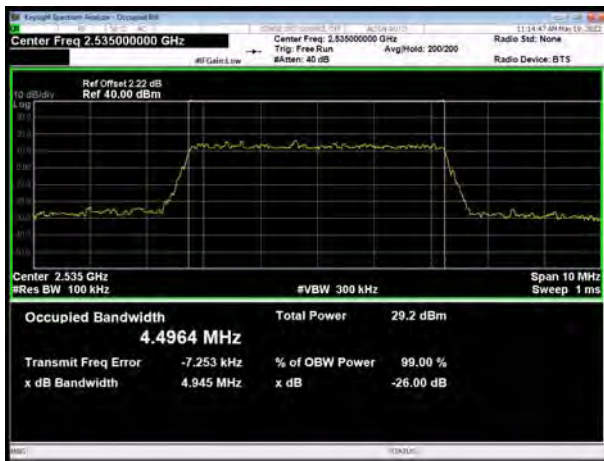
LTE Band 7 16QAM 5MHz CH-Low



LTE Band 7 16QAM 10MHz CH-Low



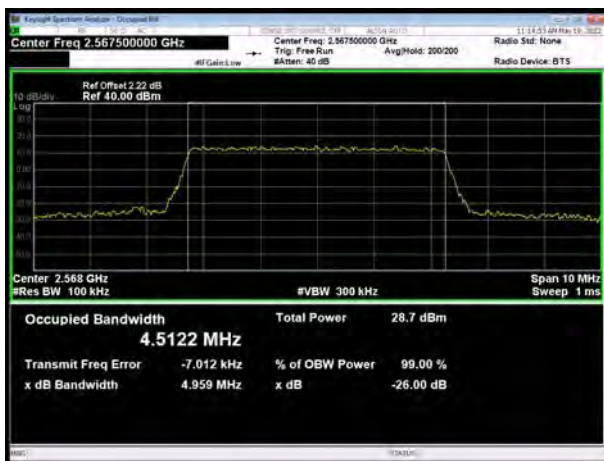
LTE Band 7 16QAM 5MHz CH-Middle



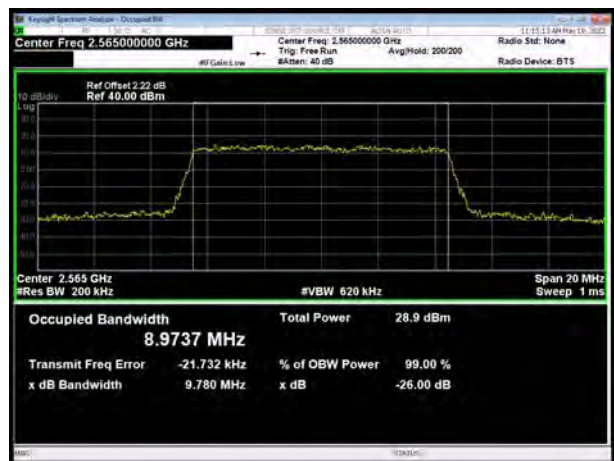
LTE Band 7 16QAM 10MHz CH-Middle



LTE Band 7 16QAM 5MHz CH-High



LTE Band 7 16QAM 10MHz CH-High

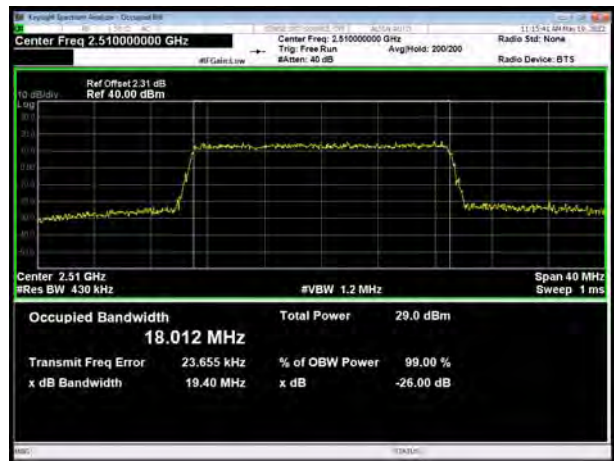




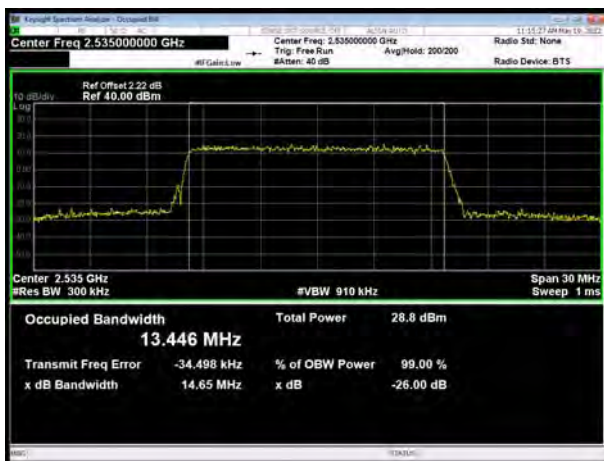
LTE Band 7 16QAM 15MHz CH-Low



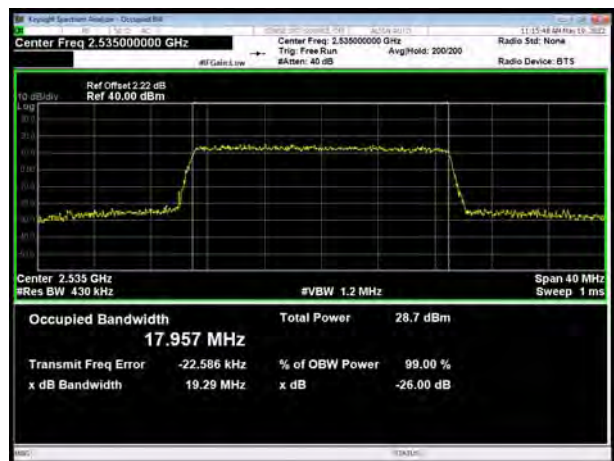
LTE Band 7 16QAM 20MHz CH-Low



LTE Band 7 16QAM 15MHz CH-Middle



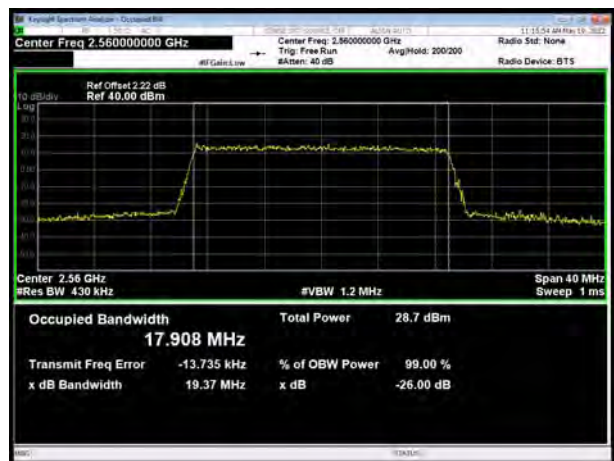
LTE Band 7 16QAM 20MHz CH-Middle



LTE Band 7 16QAM 15MHz CH-High

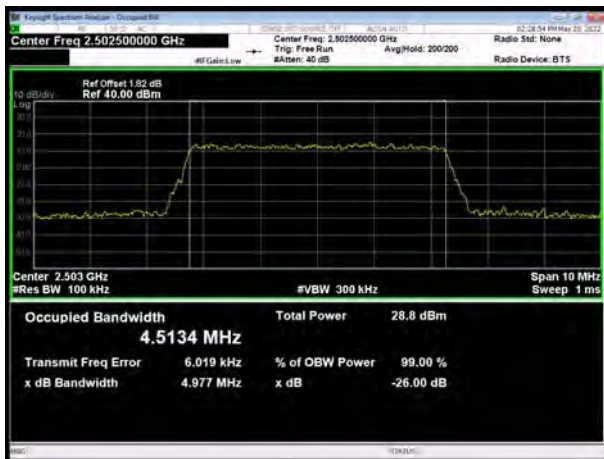


LTE Band 7 16QAM 20MHz CH-High





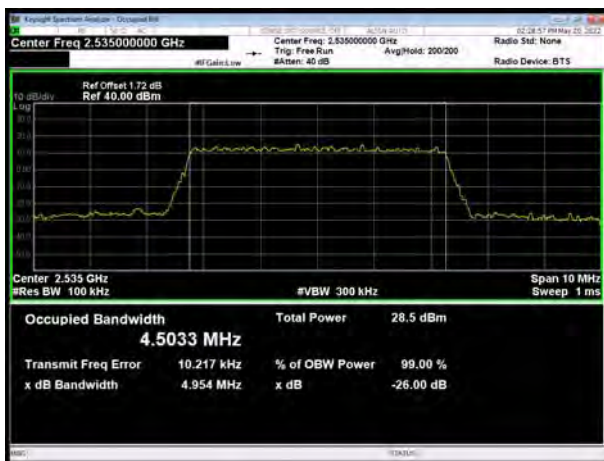
LTE Band 7 64QAM 5MHz CH-Low



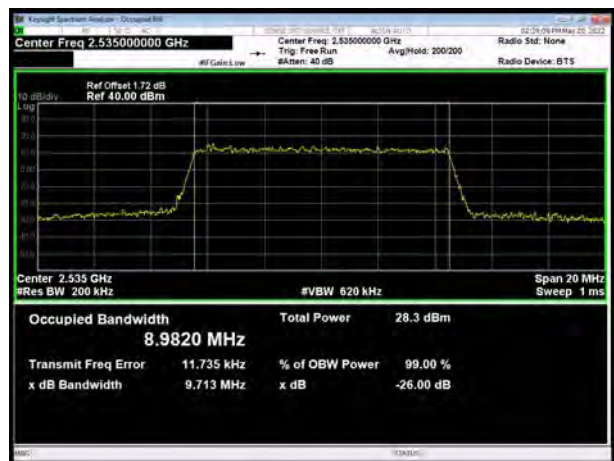
LTE Band 7 64QAM 10MHz CH-Low



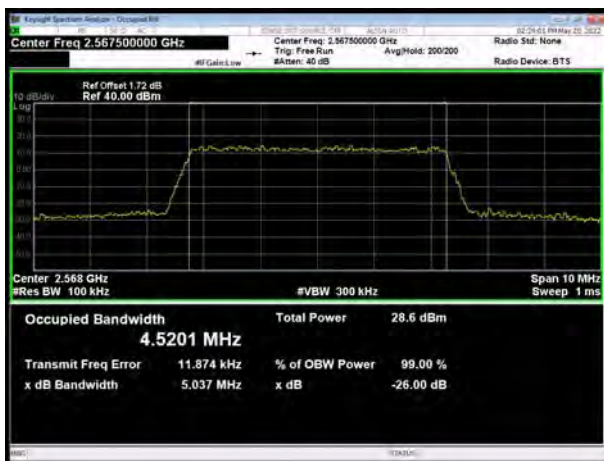
LTE Band 7 64QAM 5MHz CH-Middle



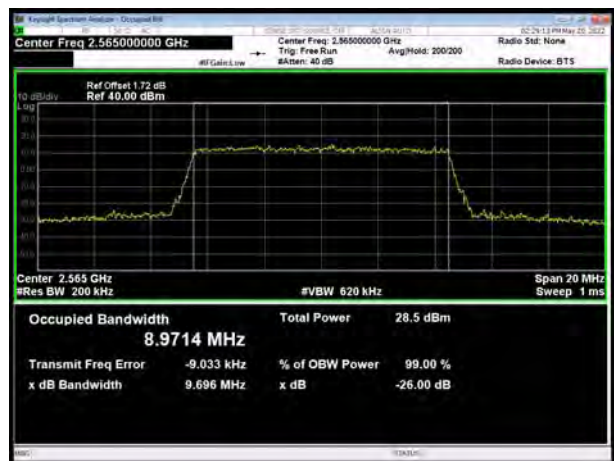
LTE Band 7 64QAM 10MHz CH-Middle



LTE Band 7 64QAM 5MHz CH-High

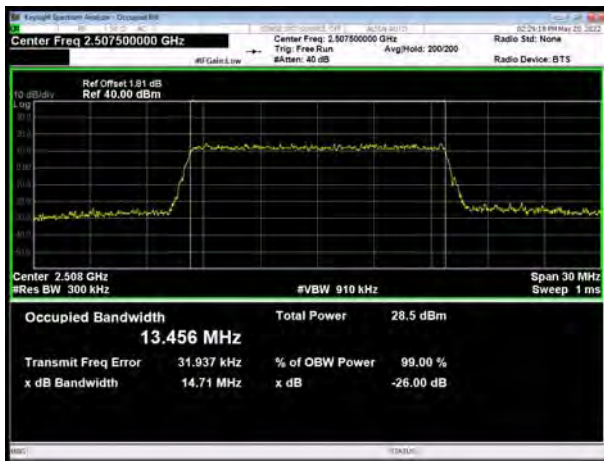


LTE Band 7 64QAM 10MHz CH-High

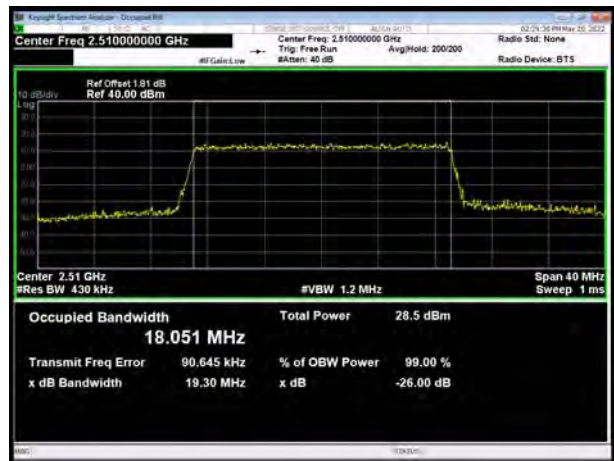




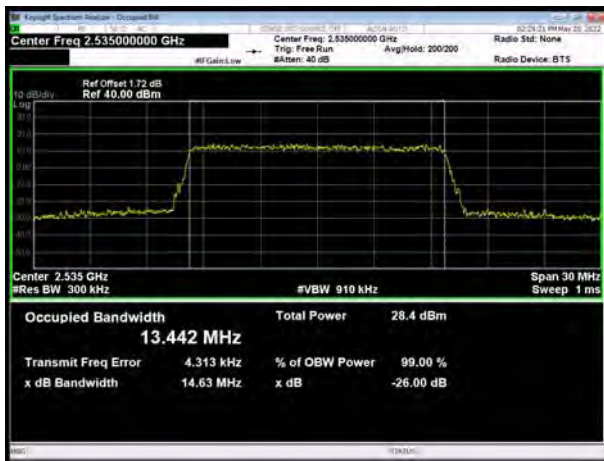
LTE Band 7 64QAM 15MHz CH-Low



LTE Band 7 64QAM 20MHz CH-Low



LTE Band 7 64QAM 15MHz CH-Middle



LTE Band 7 64QAM 20MHz CH-Middle



LTE Band 7 64QAM 15MHz CH-High

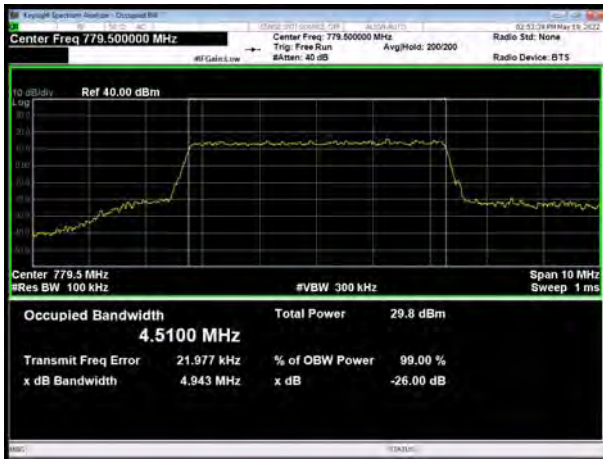


LTE Band 7 64QAM 20MHz CH-High





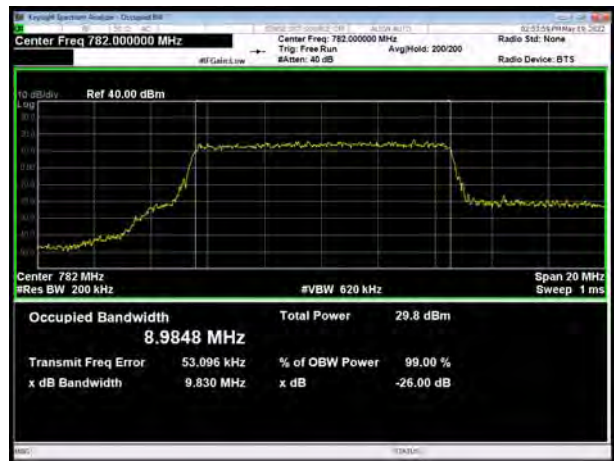
LTE Band 13 QPSK 5MHz CH-Low



LTE Band 13 QPSK 5MHz CH-Middle



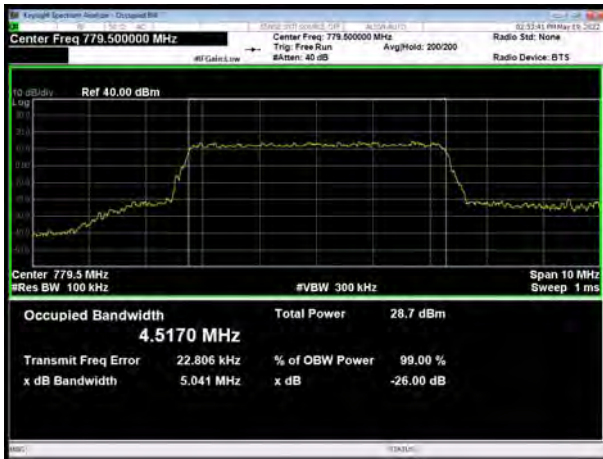
LTE Band 13 QPSK 10MHz CH-Middle



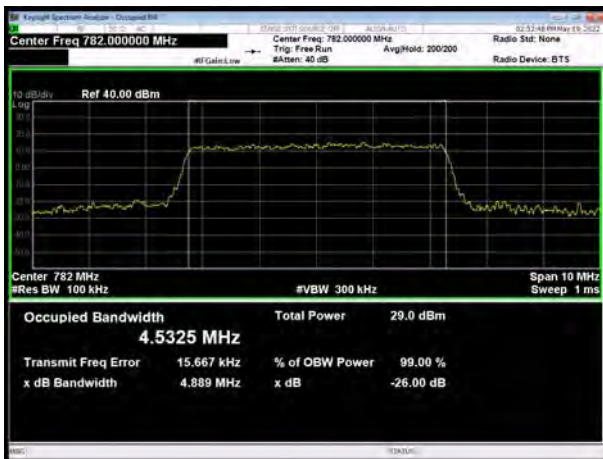
LTE Band 13 QPSK 5MHz CH-High



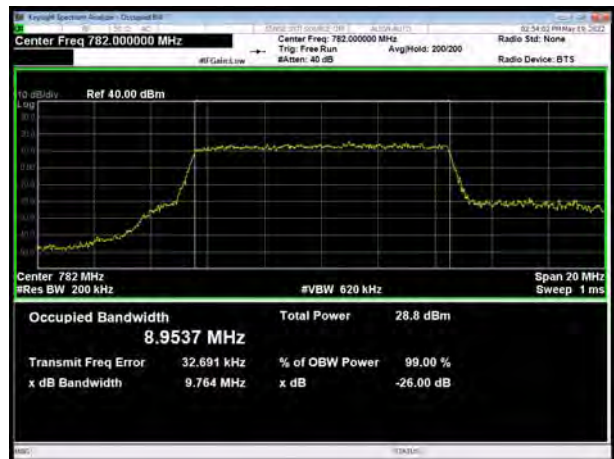
LTE Band 13 16QAM 5MHz CH-Low



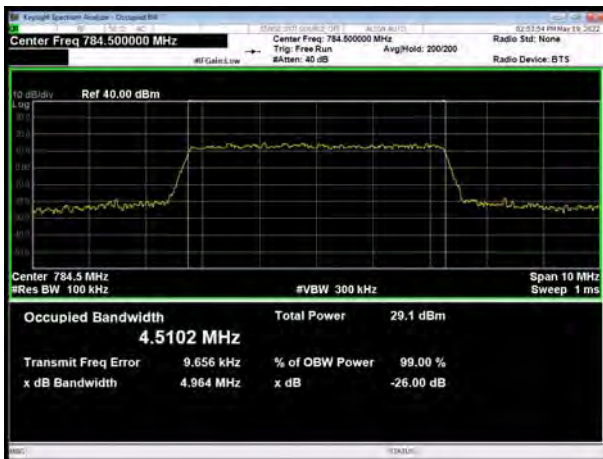
LTE Band 13 16QAM 5MHz CH-Middle



LTE Band 13 16QAM 10MHz CH-Middle

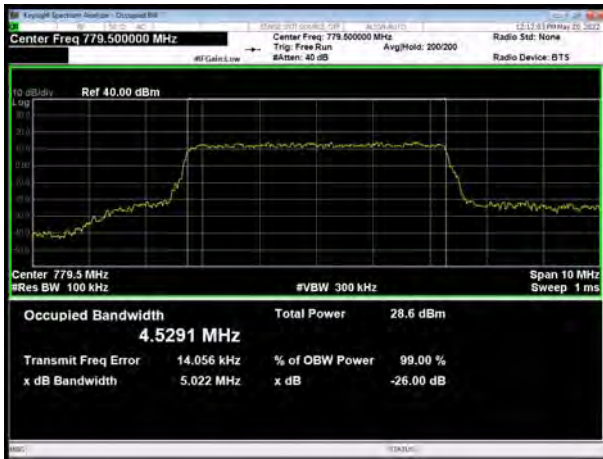


LTE Band 13 16QAM 5MHz CH-High

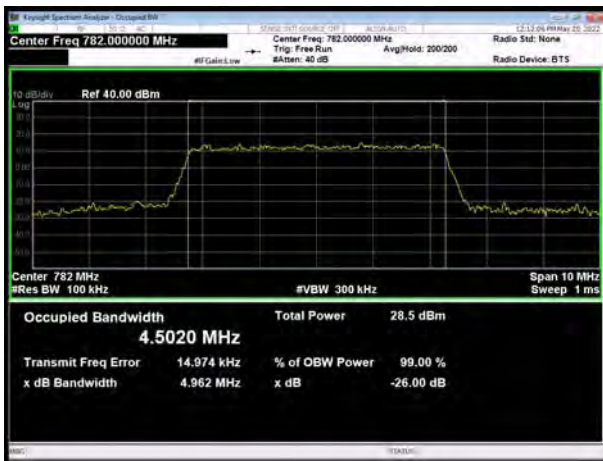




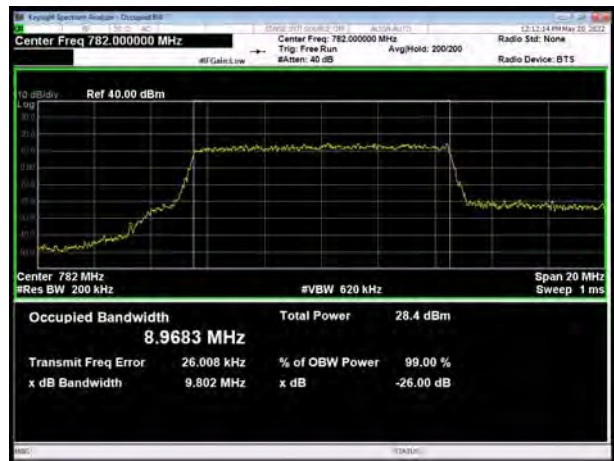
LTE Band 13 64QAM 5MHz CH-Low



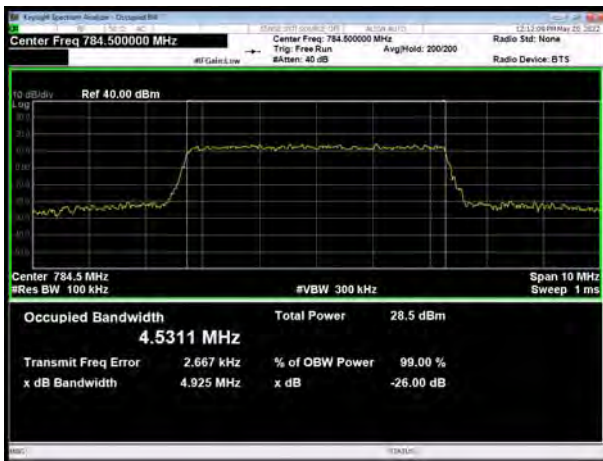
LTE Band 13 64QAM 5MHz CH-Middle



LTE Band 13 64QAM 10MHz CH-Middle

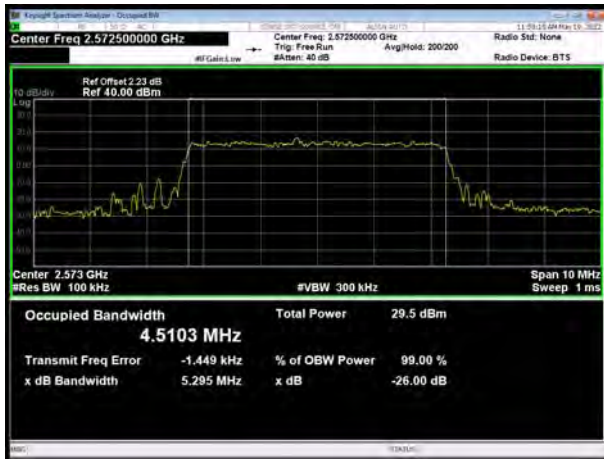


LTE Band 13 64QAM 5MHz CH-High

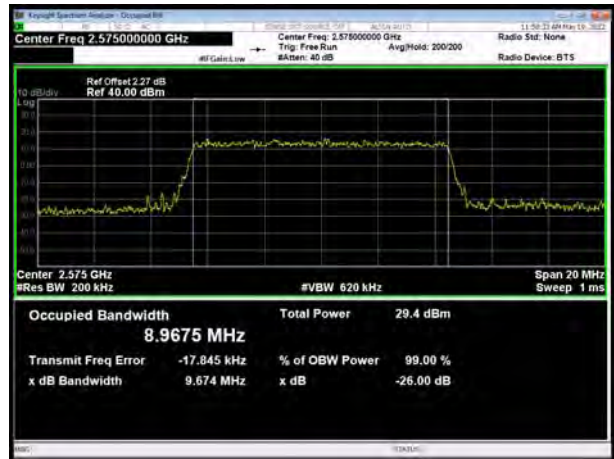




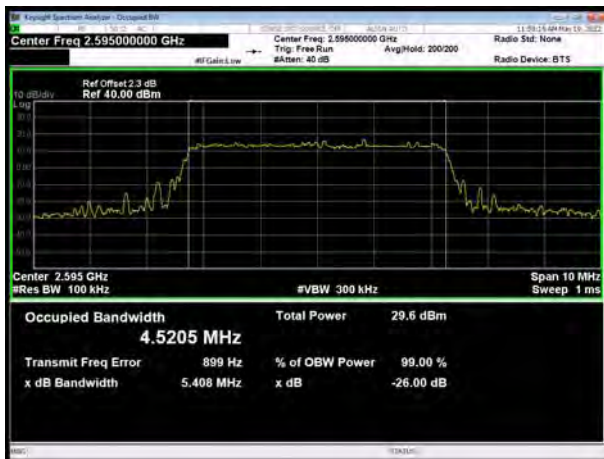
LTE Band 38 QPSK 5MHz CH-Low



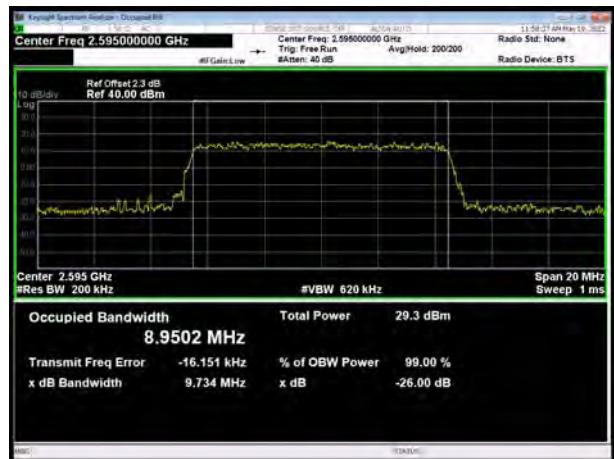
LTE Band 38 QPSK 10MHz CH-Low



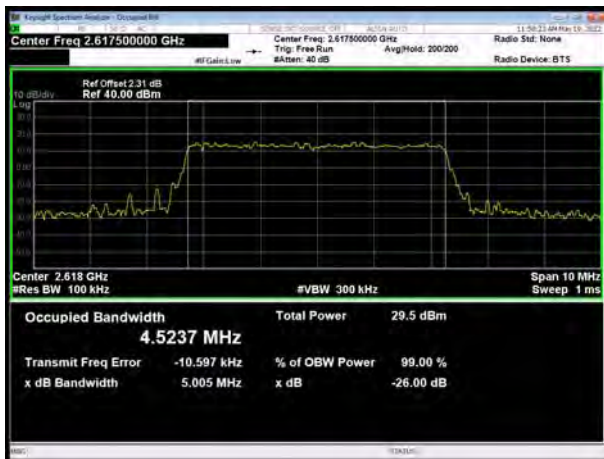
LTE Band 38 QPSK 5MHz CH-Middle



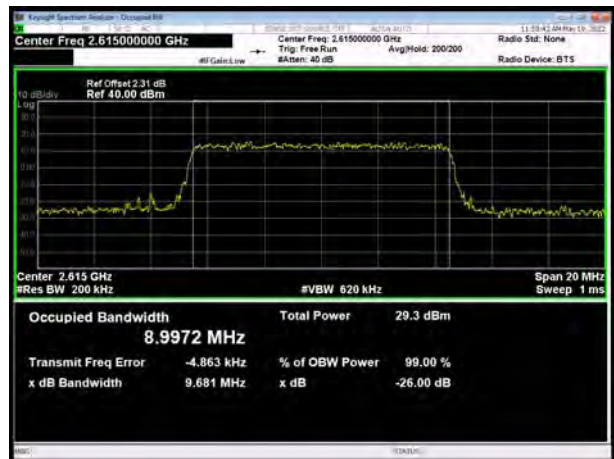
LTE Band 38 QPSK 10MHz CH-Middle



LTE Band 38 QPSK 5MHz CH-High

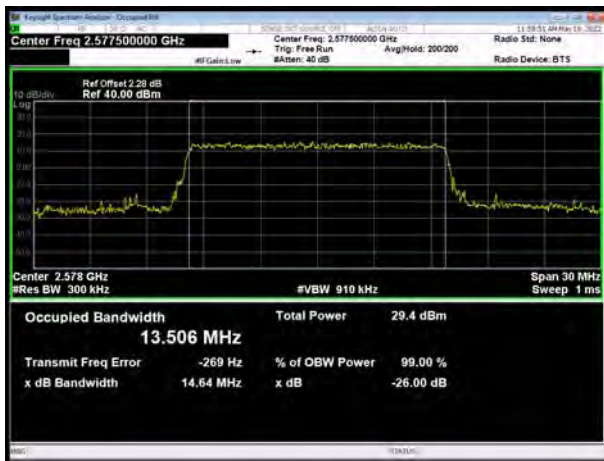


LTE Band 38 QPSK 10MHz CH-High

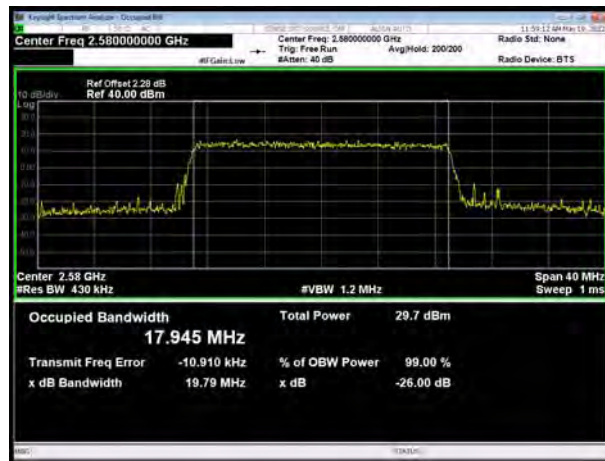




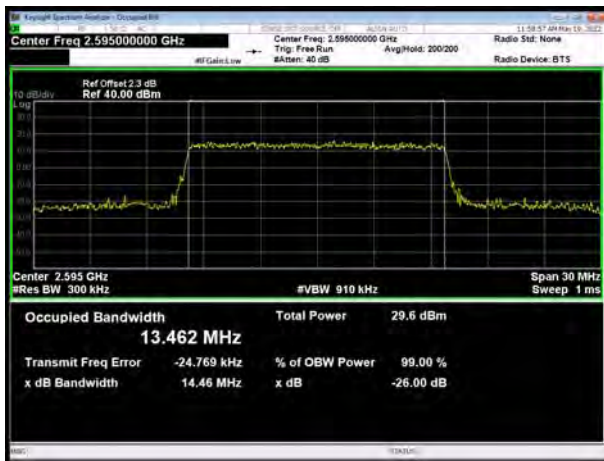
LTE Band 38 QPSK 15MHz CH-Low



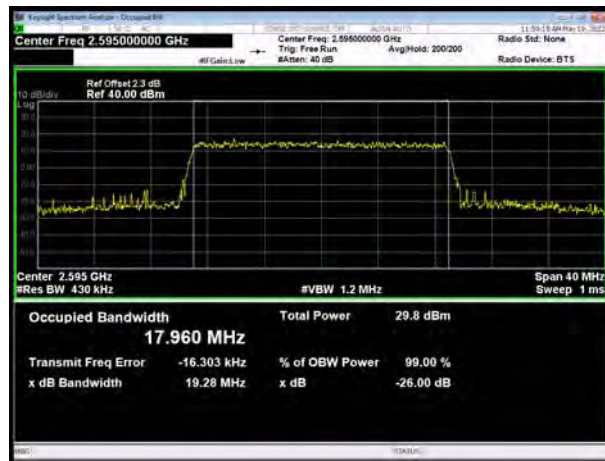
LTE Band 38 QPSK 20MHz CH-Low



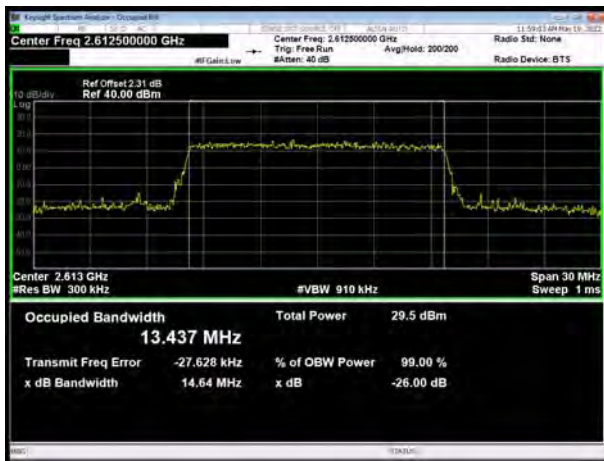
LTE Band 38 QPSK 15MHz CH-Middle



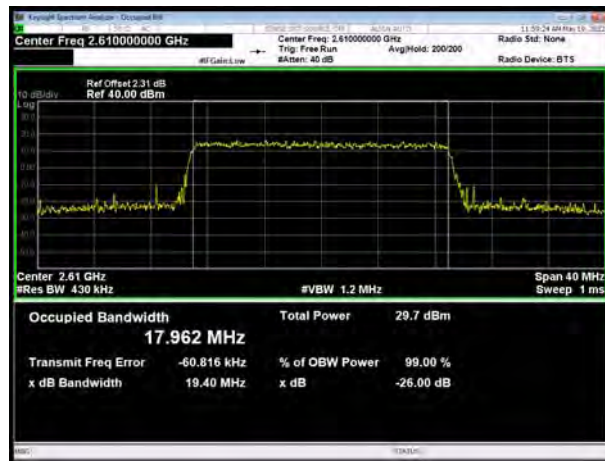
LTE Band 38 QPSK 20MHz CH-Middle



LTE Band 38 QPSK 15MHz CH-High

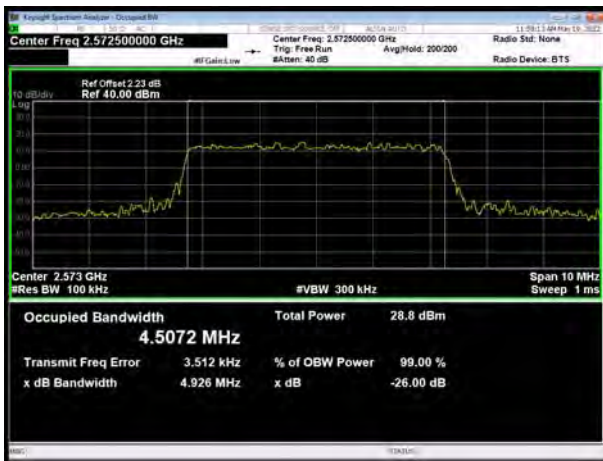


LTE Band 38 QPSK 20MHz CH-High





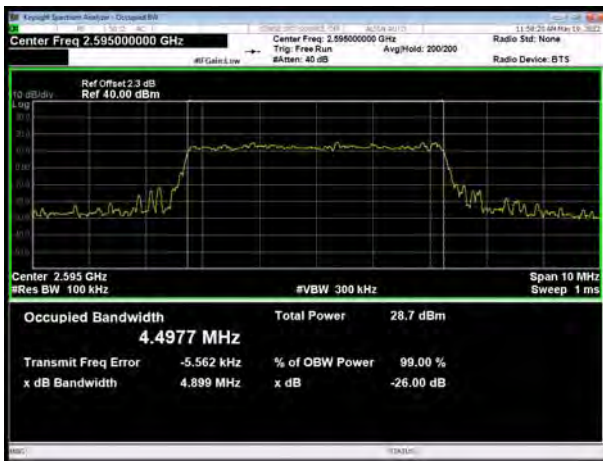
LTE Band 38 16QAM 5MHz CH-Low



LTE Band 38 16QAM 10MHz CH-Low



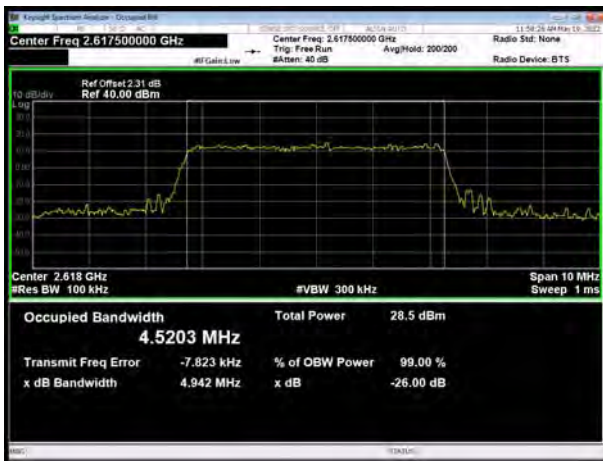
LTE Band 38 16QAM 5MHz CH-Middle



LTE Band 38 16QAM 10MHz CH-Middle



LTE Band 38 16QAM 5MHz CH-High

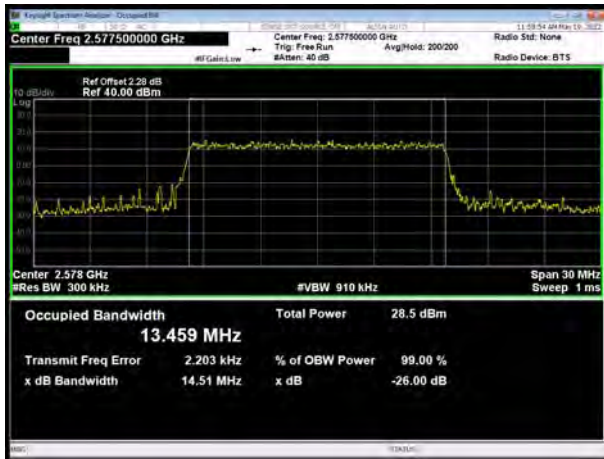


LTE Band 38 16QAM 10MHz CH-High

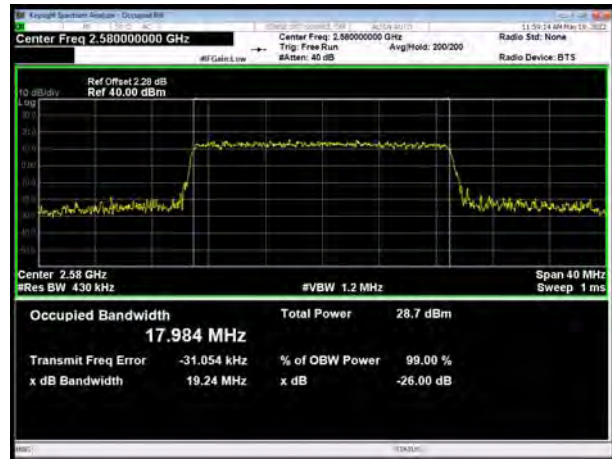




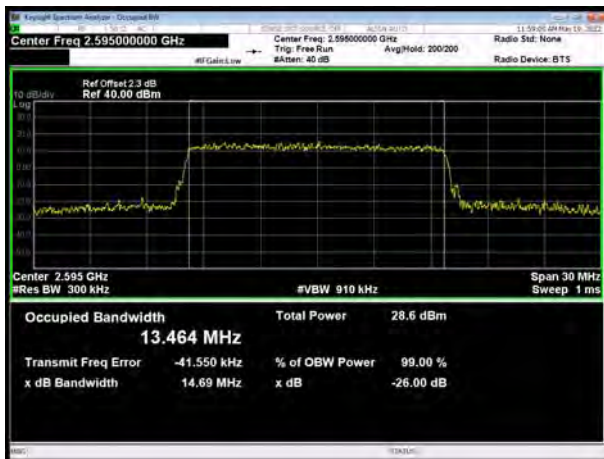
LTE Band 38 16QAM 15MHz CH-Low



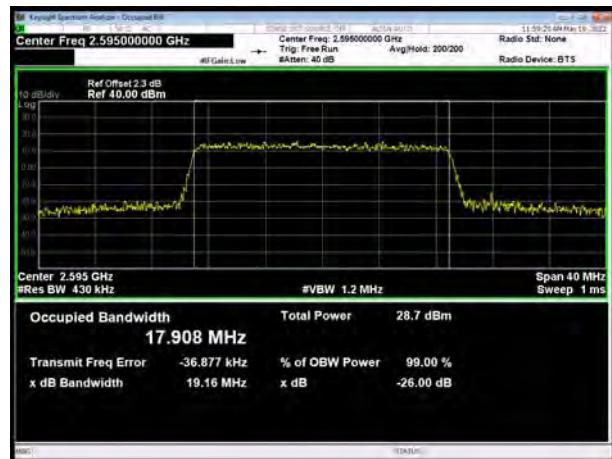
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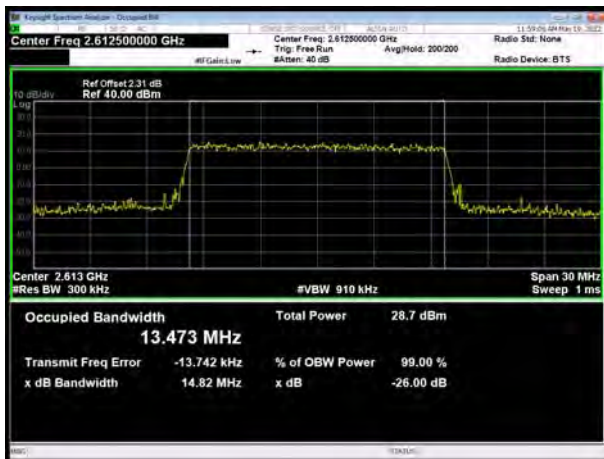
LTE Band 38 16QAM 15MHz CH-Middle



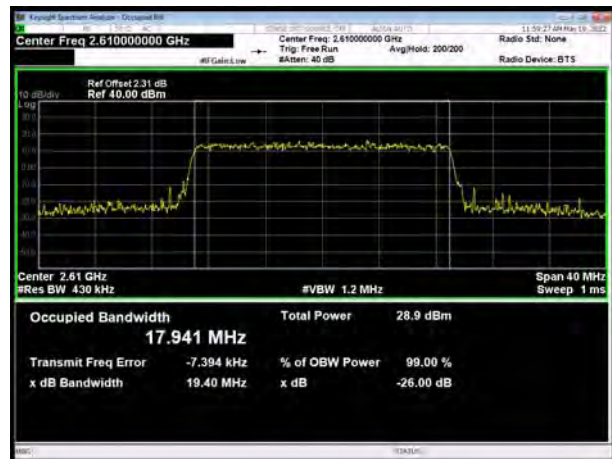
LTE Band 38 16QAM 20MHz CH-Middle



LTE Band 38 16QAM 15MHz CH-High



LTE Band 38 16QAM 20MHz CH-High

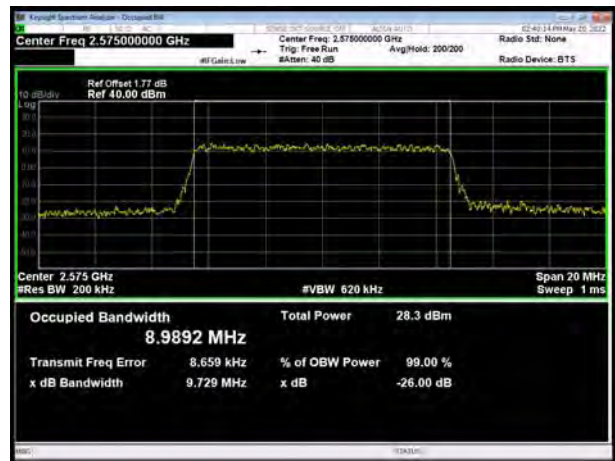




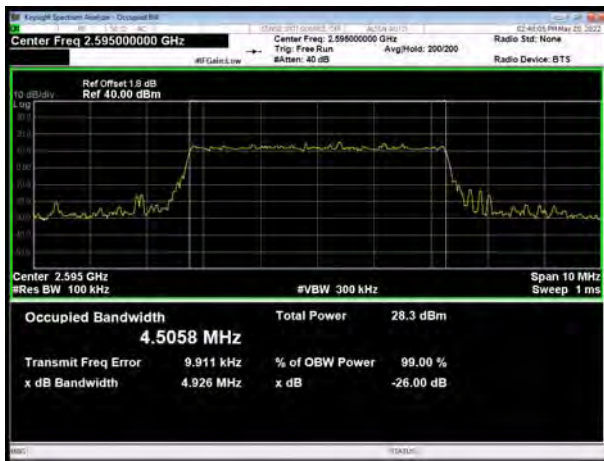
LTE Band 38 64QAM 5MHz CH-Low



LTE Band 38 64QAM 10MHz CH-Low



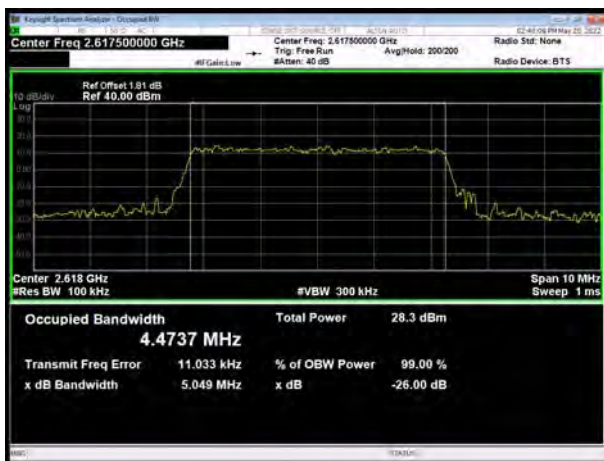
LTE Band 38 64QAM 5MHz CH-Middle



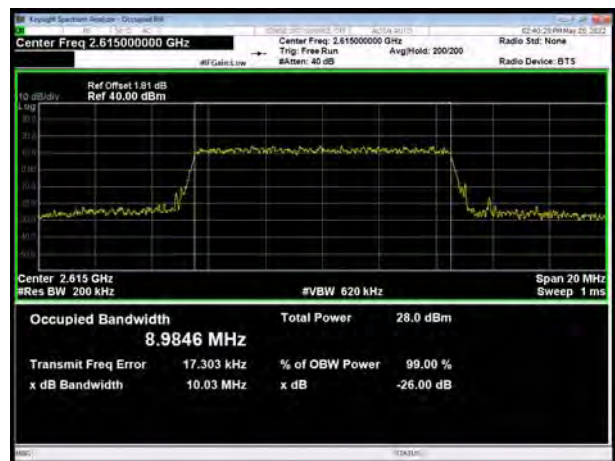
LTE Band 38 64QAM 10MHz CH-Middle



LTE Band 38 64QAM 5MHz CH-High

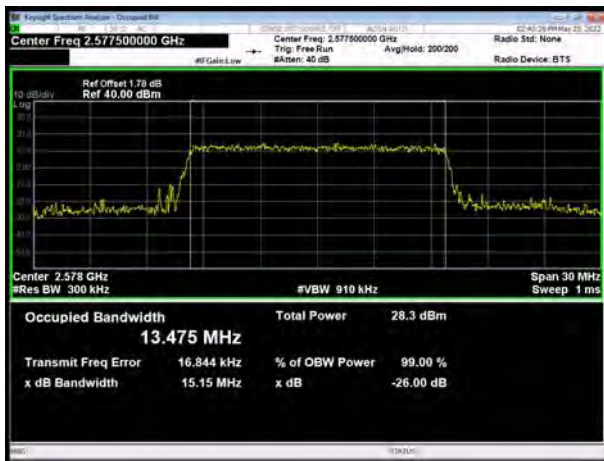


LTE Band 38 64QAM 10MHz CH-High

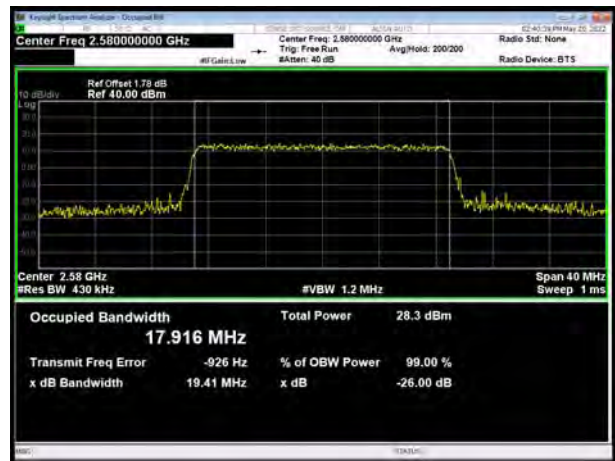




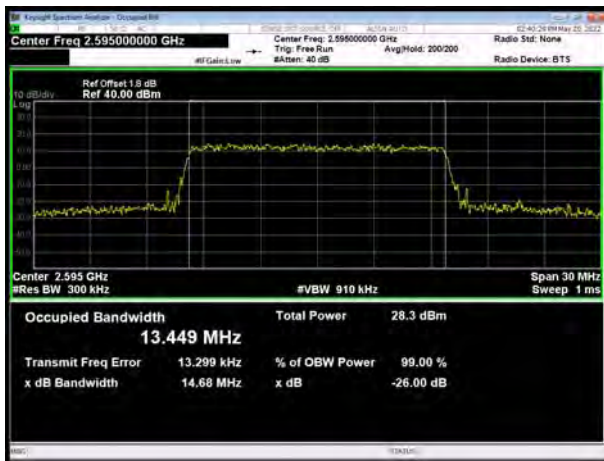
LTE Band 38 64QAM 15MHz CH-Low



LTE Band 38 64QAM 20MHz CH-Low



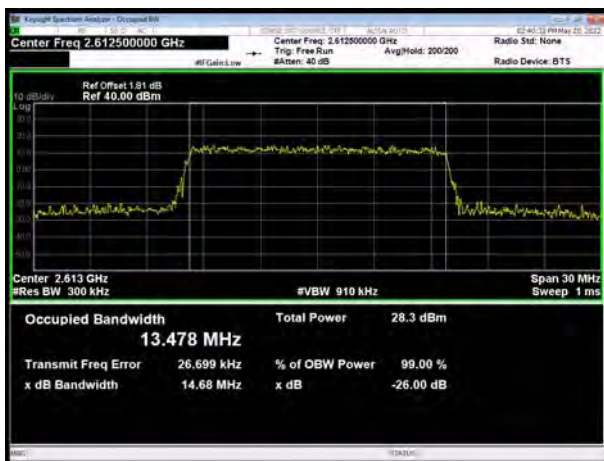
LTE Band 38 64QAM 15MHz CH-Middle



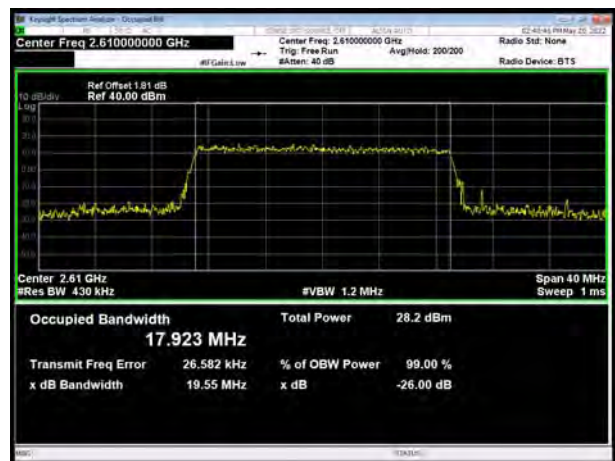
LTE Band 38 64QAM 20MHz CH-Middle



LTE Band 38 64QAM 15MHz CH-High

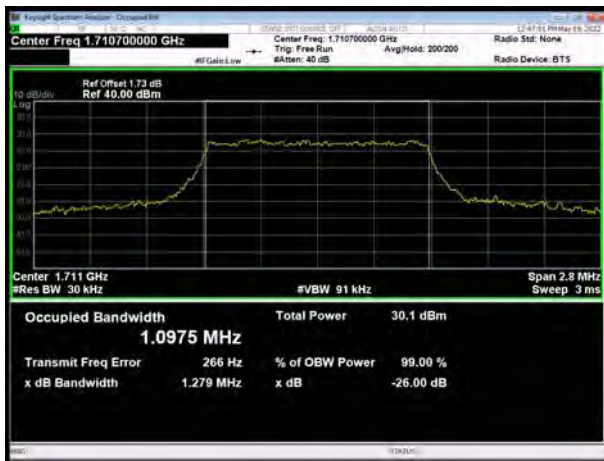


LTE Band 38 64QAM 20MHz CH-High

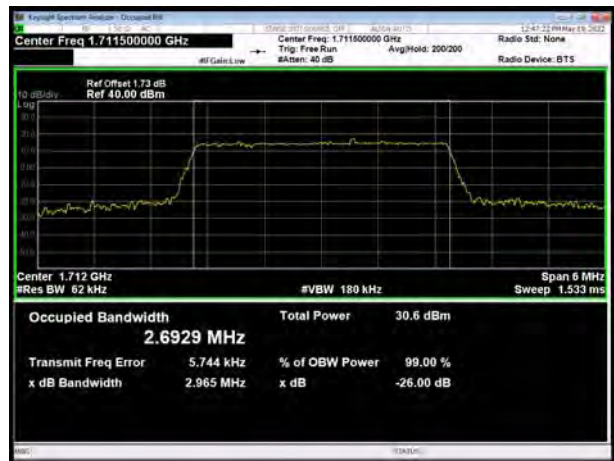




LTE Band 66 QPSK 1.4MHz CH-Low



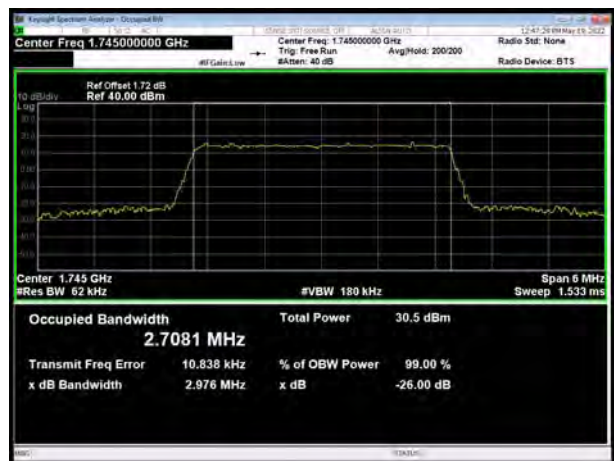
LTE Band 66 QPSK 3MHz CH-Low



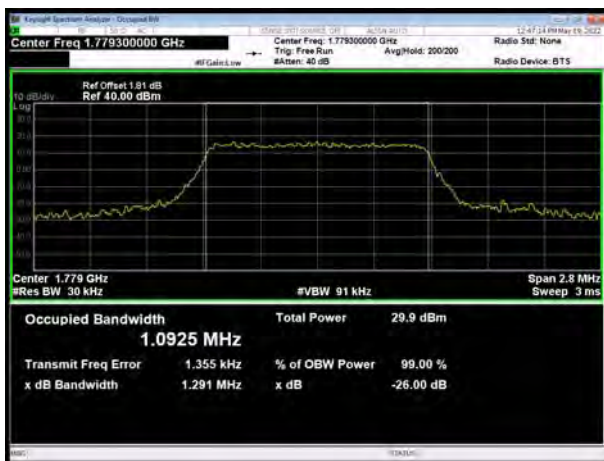
LTE Band 66 QPSK 1.4MHz CH-Middle



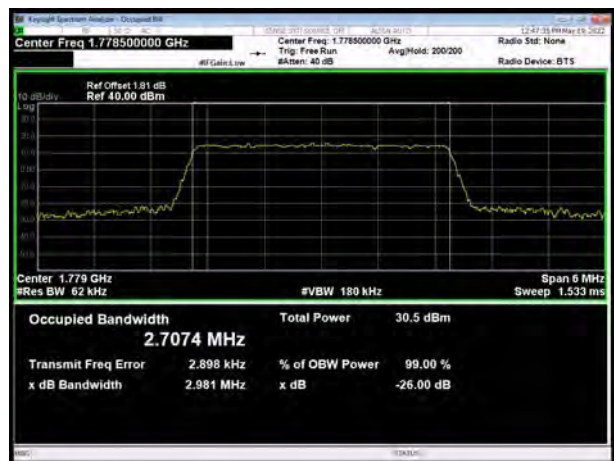
LTE Band 66 QPSK 3MHz CH-Middle



LTE Band 66 QPSK 1.4MHz CH-High

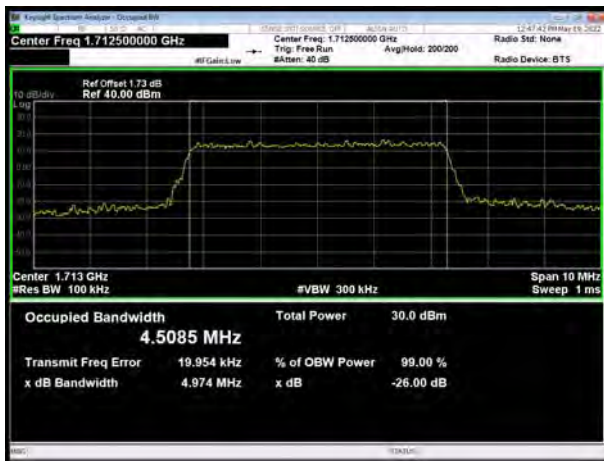


LTE Band 66 QPSK 3MHz CH-High

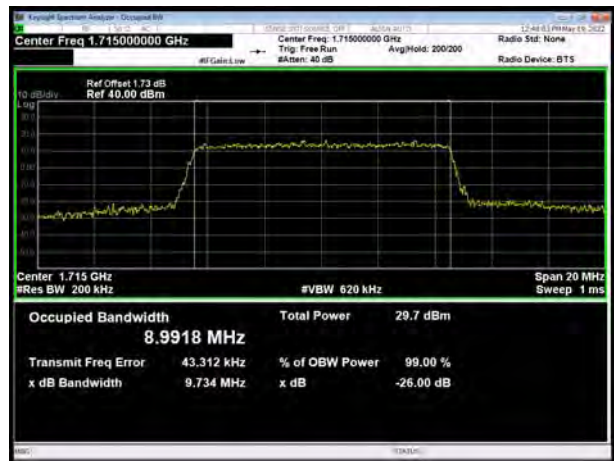




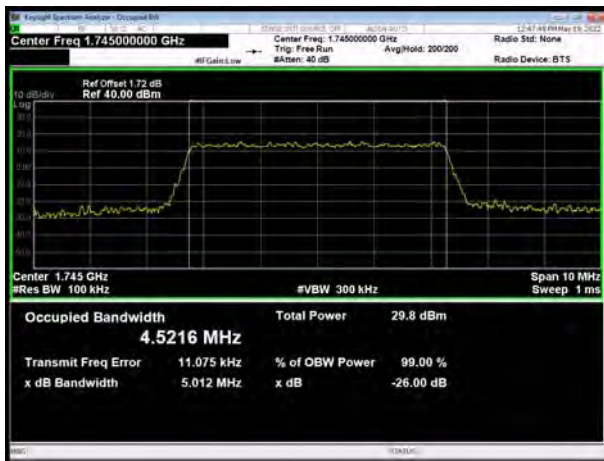
LTE Band 66 QPSK 5MHz CH-Low



LTE Band 66 QPSK 10MHz CH-Low



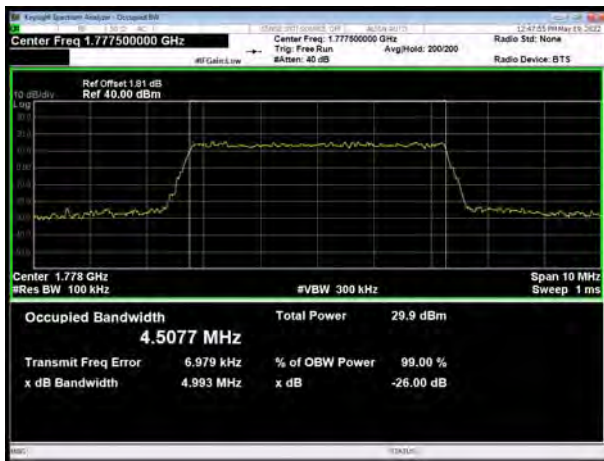
LTE Band 66 QPSK 5MHz CH-Middle



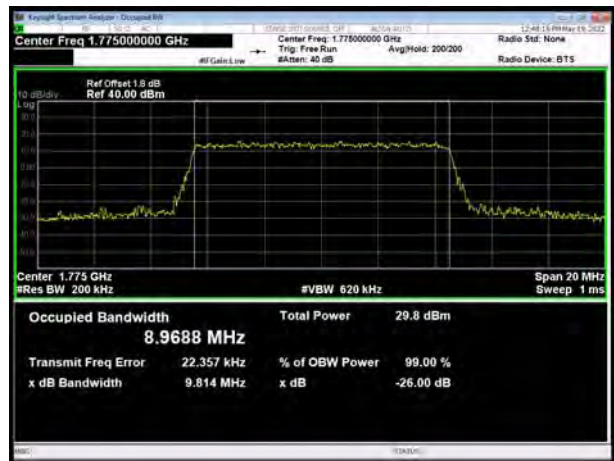
LTE Band 66 QPSK 10MHz CH-Middle



LTE Band 66 QPSK 5MHz CH-High

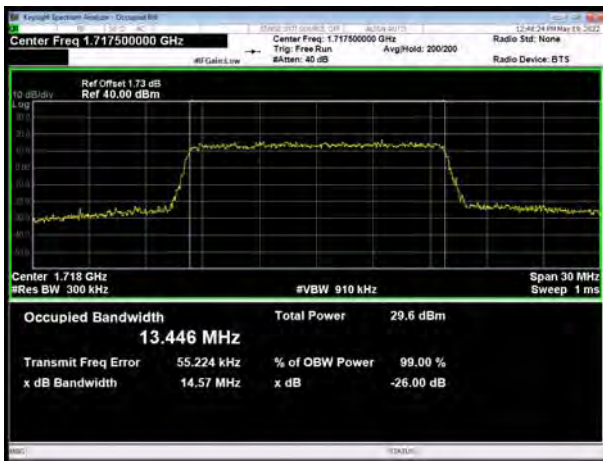


LTE Band 66 QPSK 10MHz CH-High

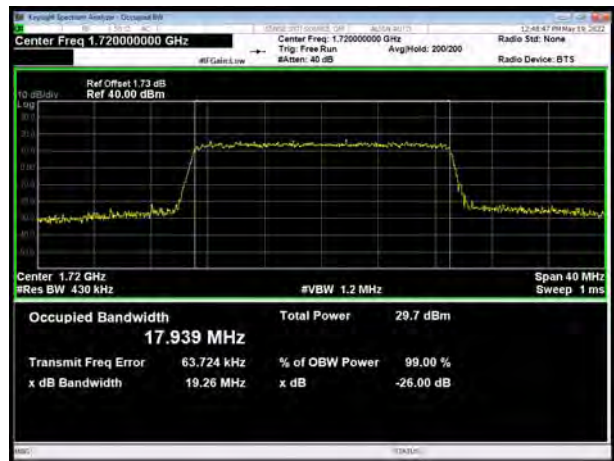




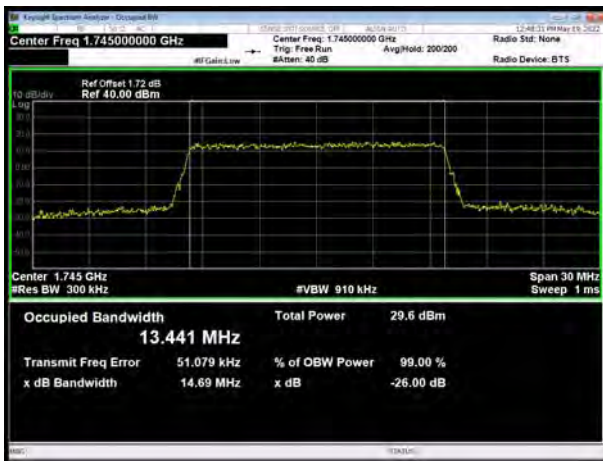
LTE Band 66 QPSK 15MHz CH-Low



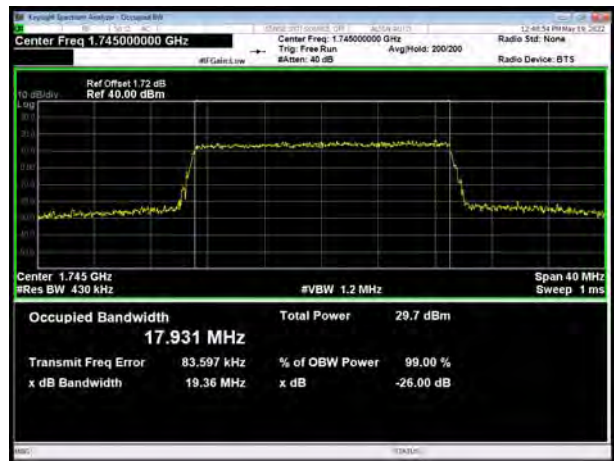
LTE Band 66 QPSK 20MHz CH-Low



LTE Band 66 QPSK 15MHz CH-Middle



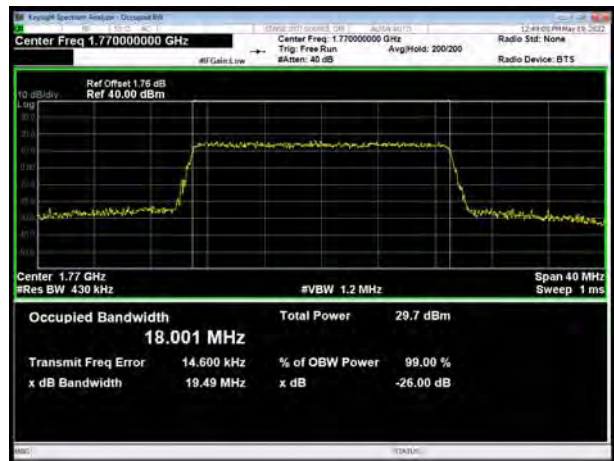
LTE Band 66 QPSK 20MHz CH-Middle



LTE Band 66 QPSK 15MHz CH-High

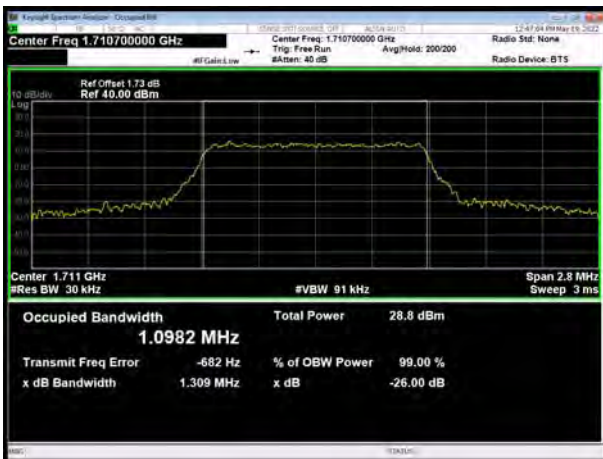


LTE Band 66 QPSK 20MHz CH-High

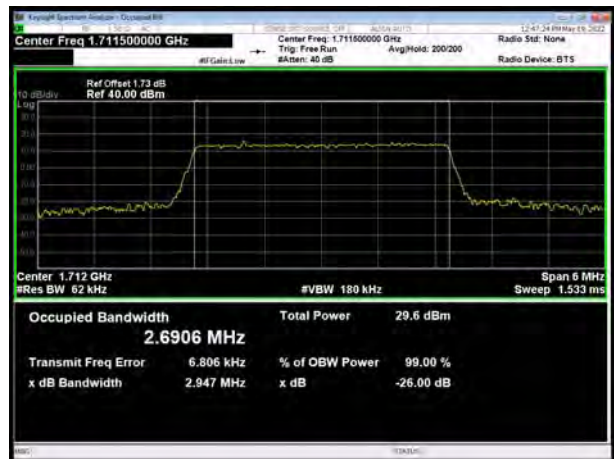




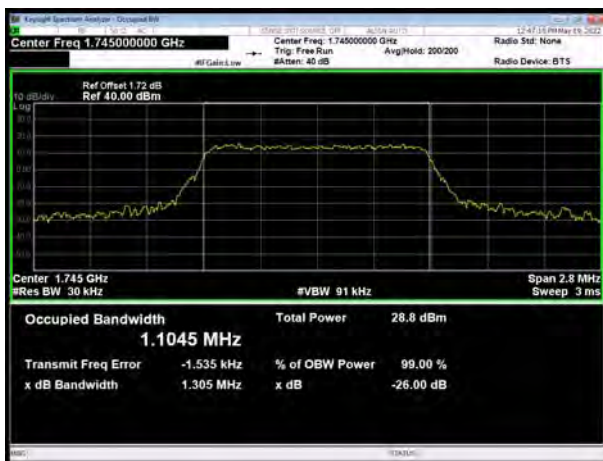
LTE Band 66 16QAM 1.4MHz CH-Low



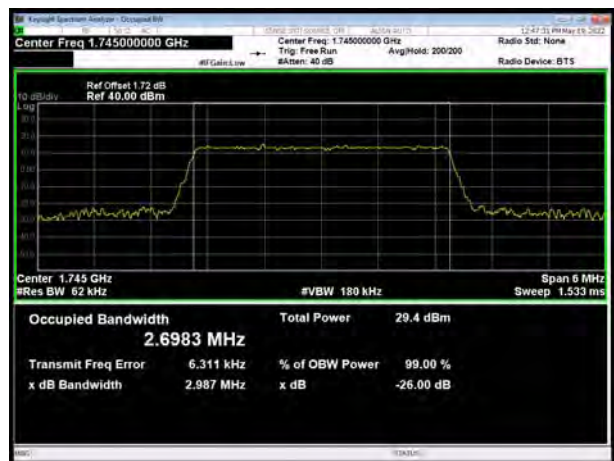
LTE Band 66 16QAM 3MHz CH-Low



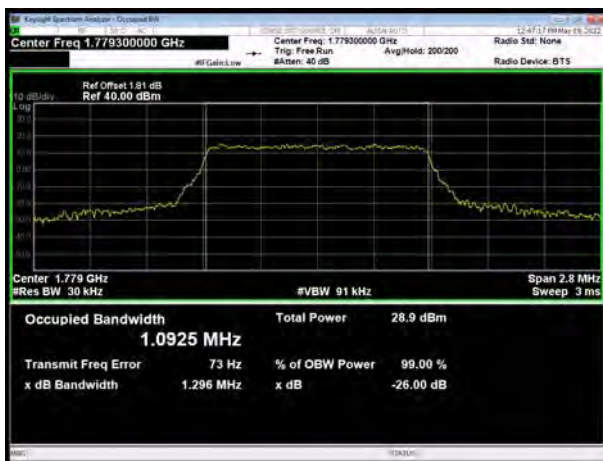
LTE Band 66 16QAM 1.4MHz CH-Middle



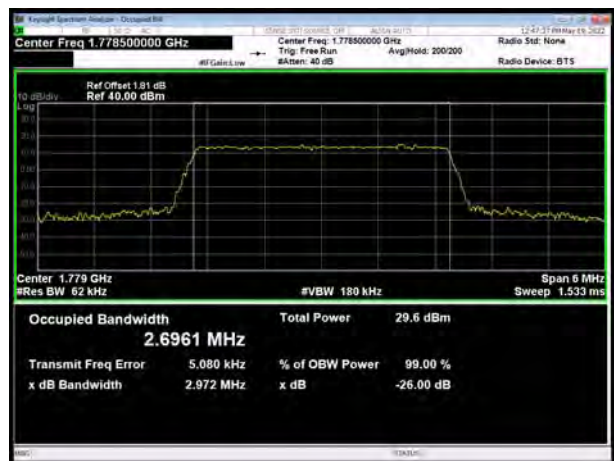
LTE Band 66 16QAM 3MHz CH-Middle



LTE Band 66 16QAM 1.4MHz CH-High

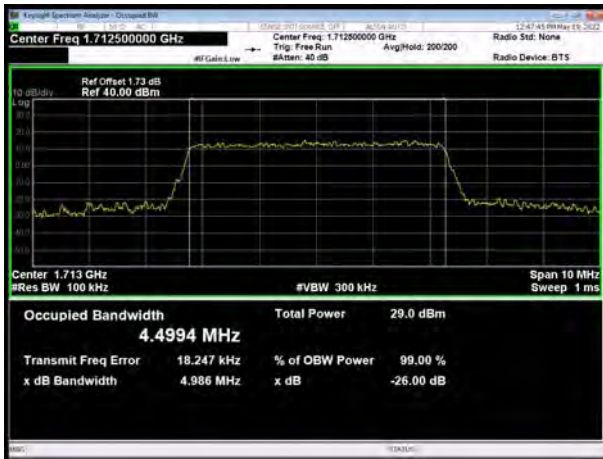


LTE Band 66 16QAM 3MHz CH-High

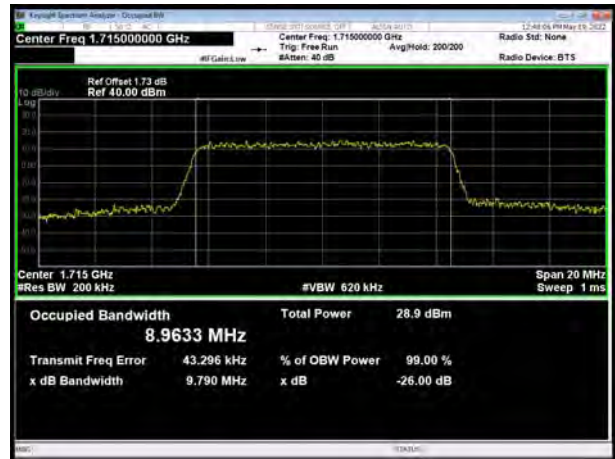




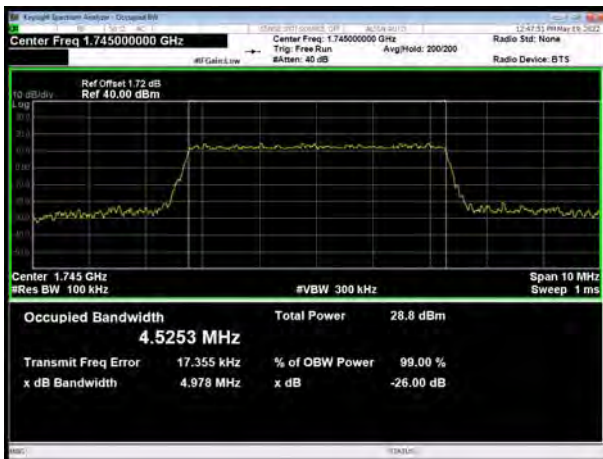
LTE Band 66 16QAM 5MHz CH-Low



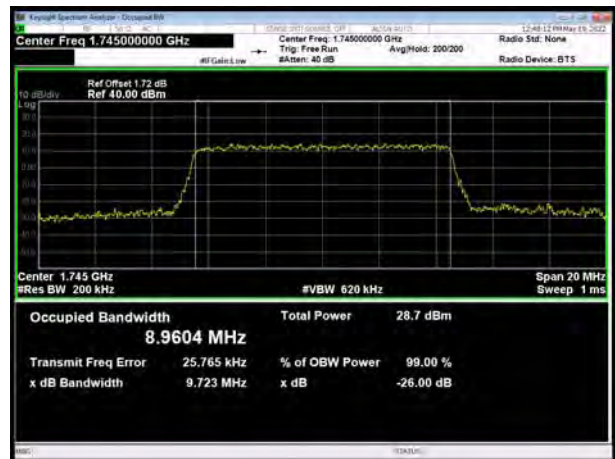
LTE Band 66 16QAM 10MHz CH-Low



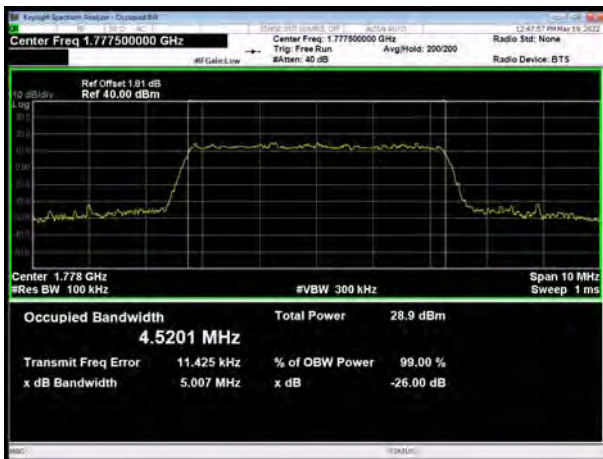
LTE Band 66 16QAM 5MHz CH-Middle



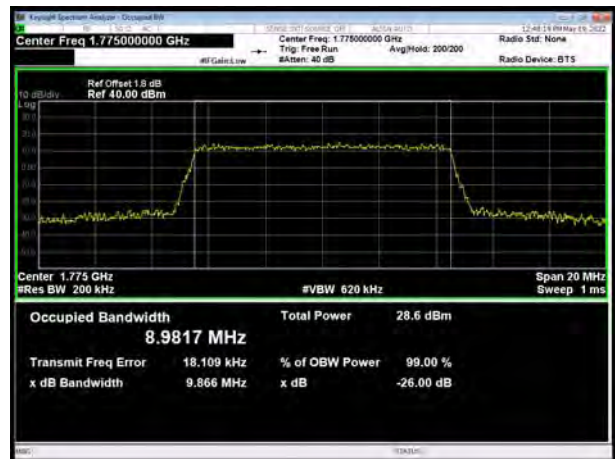
LTE Band 66 16QAM 10MHz CH-Middle



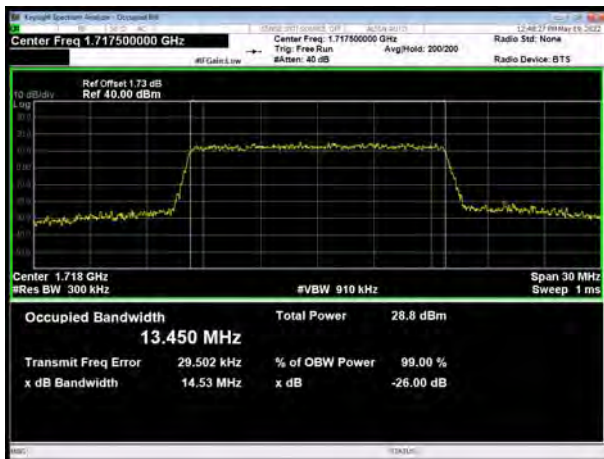
LTE Band 66 16QAM 5MHz CH-High



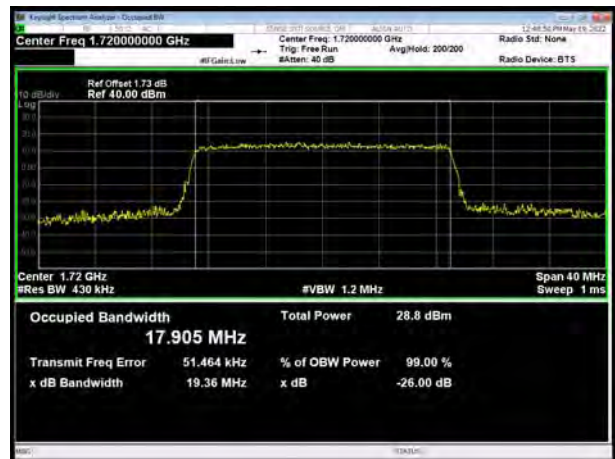
LTE Band 66 16QAM 10MHz CH-High



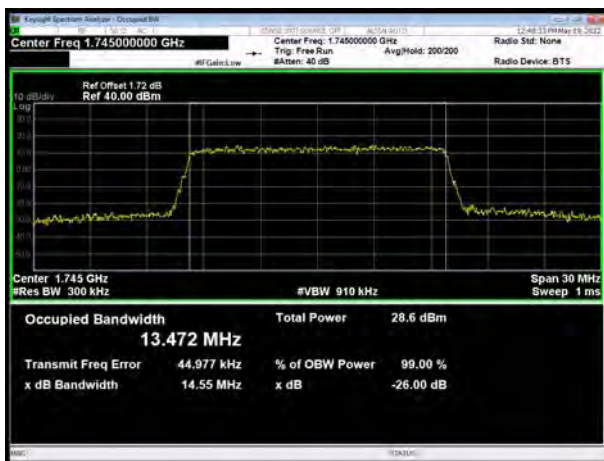
LTE Band 66 16QAM 15MHz CH-Low



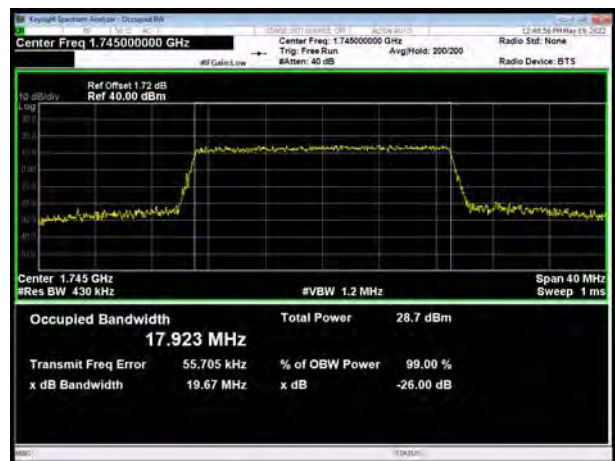
LTE Band 66 16QAM 20MHz CH-Low



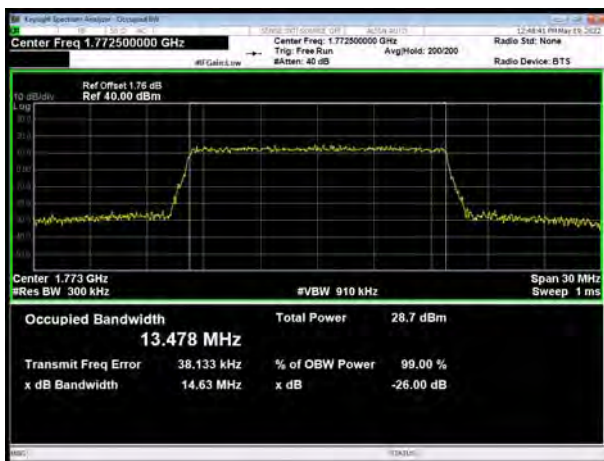
LTE Band 66 16QAM 15MHz CH-Middle



LTE Band 66 16QAM 20MHz CH-Middle



LTE Band 66 16QAM 15MHz CH-High

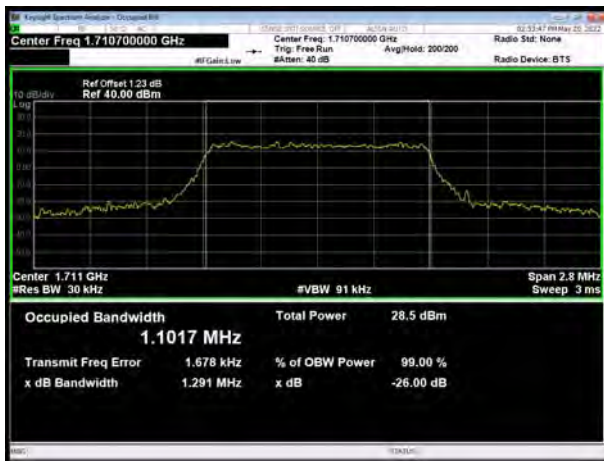


LTE Band 66 16QAM 20MHz CH-High





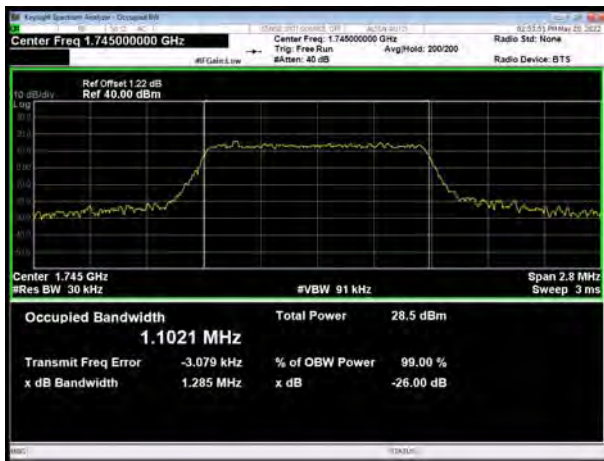
LTE Band 66 64QAM 1.4MHz CH-Low



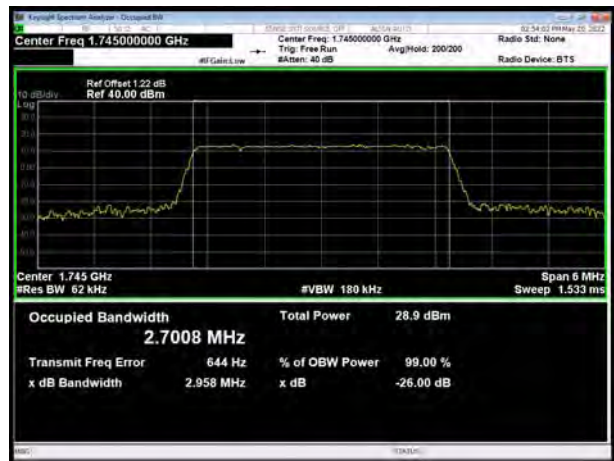
LTE Band 66 64QAM 3MHz CH-Low



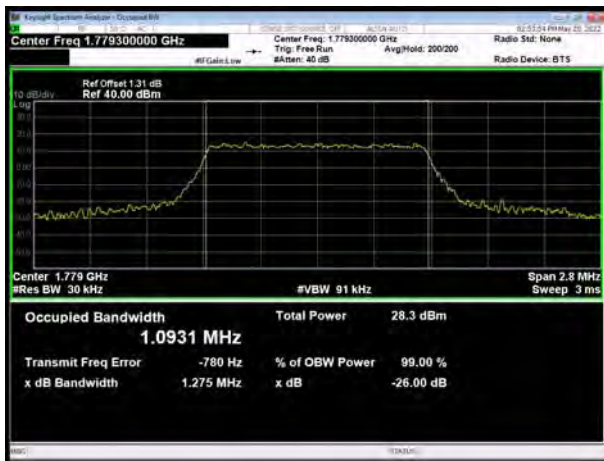
LTE Band 66 64QAM 1.4MHz CH-Middle



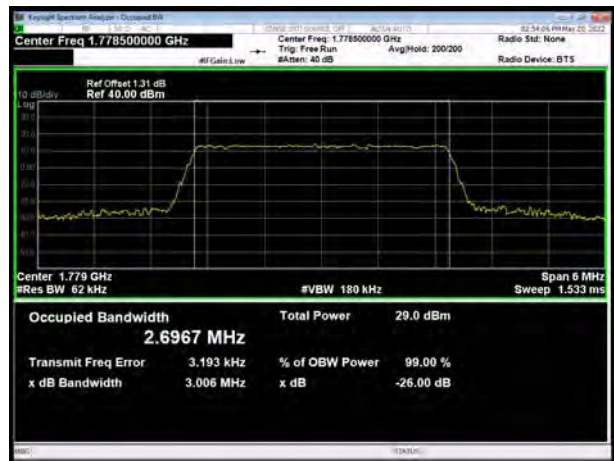
LTE Band 66 64QAM 3MHz CH-Middle



LTE Band 66 64QAM 1.4MHz CH-High

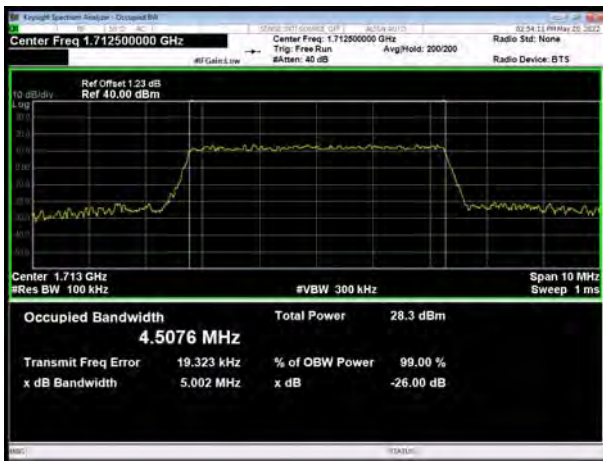


LTE Band 66 64QAM 3MHz CH-High

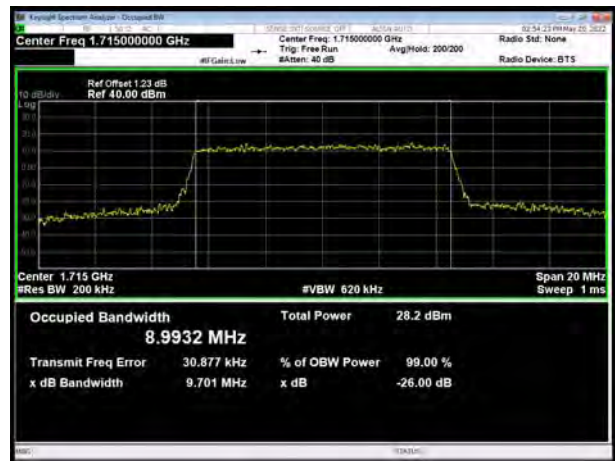




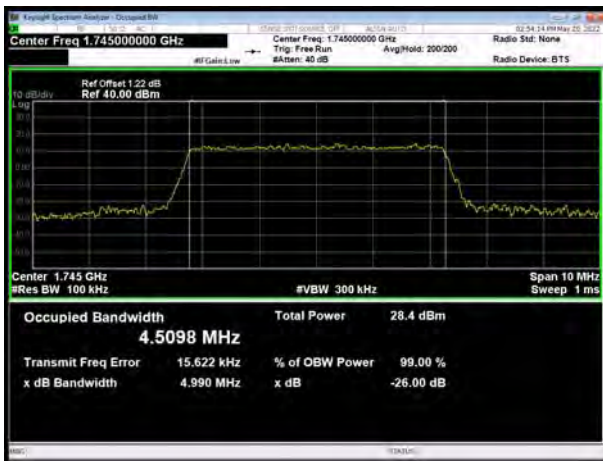
LTE Band 66 64QAM 5MHz CH-Low



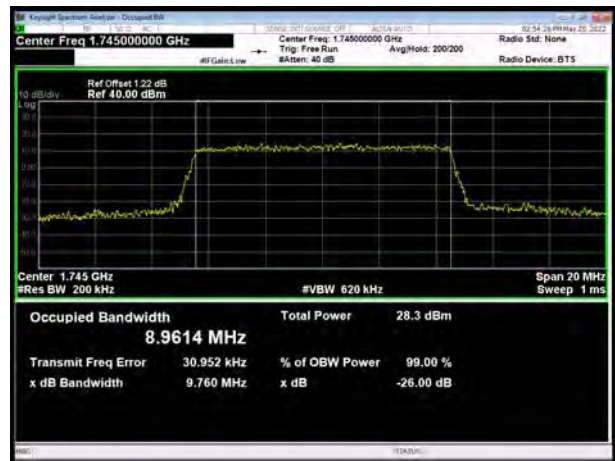
LTE Band 66 64QAM 10MHz CH-Low



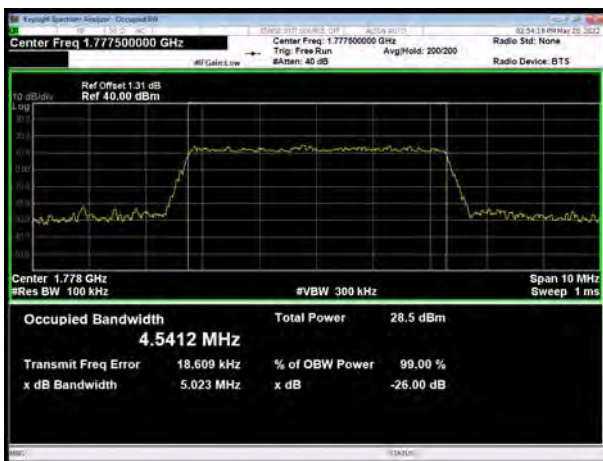
LTE Band 66 64QAM 5MHz CH-Middle



LTE Band 66 64QAM 10MHz CH-Middle



LTE Band 66 64QAM 5MHz CH-High

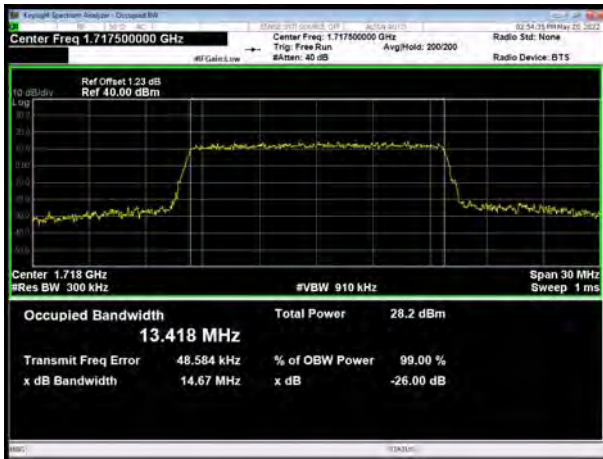


LTE Band 66 64QAM 10MHz CH-High

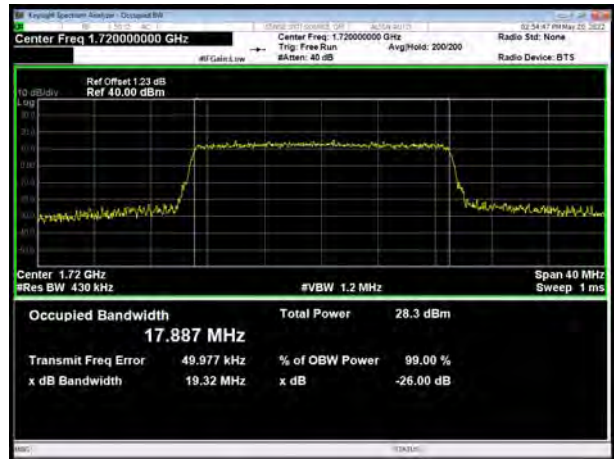




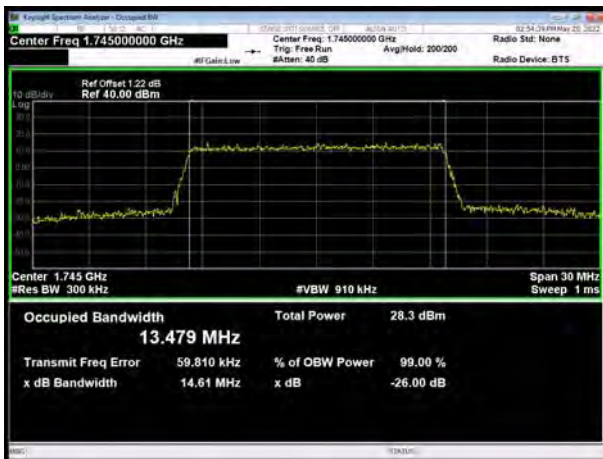
LTE Band 66 64QAM 15MHz CH-Low



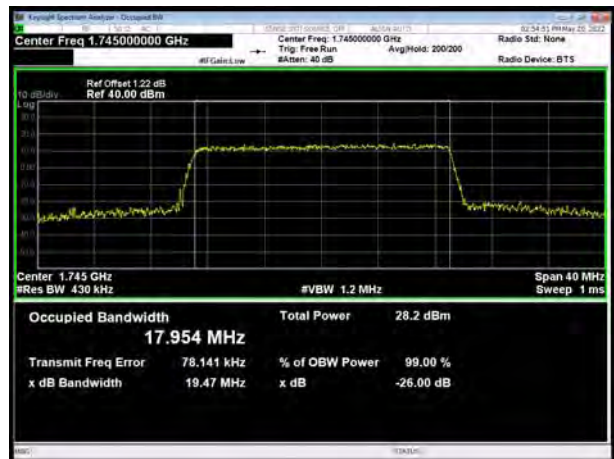
LTE Band 66 64QAM 20MHz CH-Low



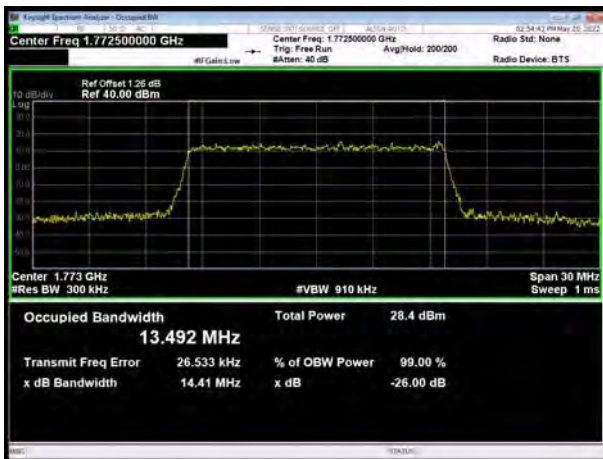
LTE Band 66 64QAM 15MHz CH-Middle



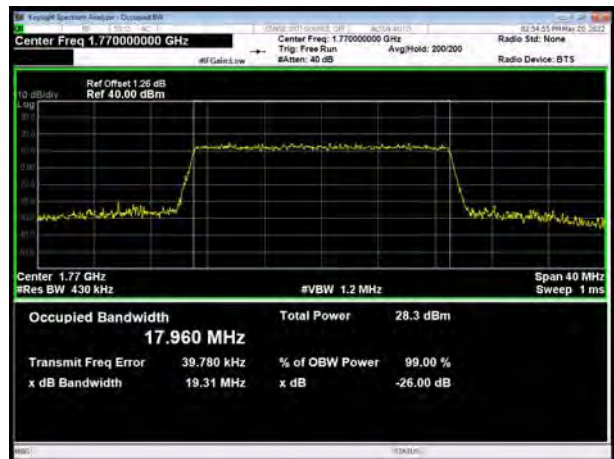
LTE Band 66 64QAM 20MHz CH-Middle



LTE Band 66 64QAM 15MHz CH-High

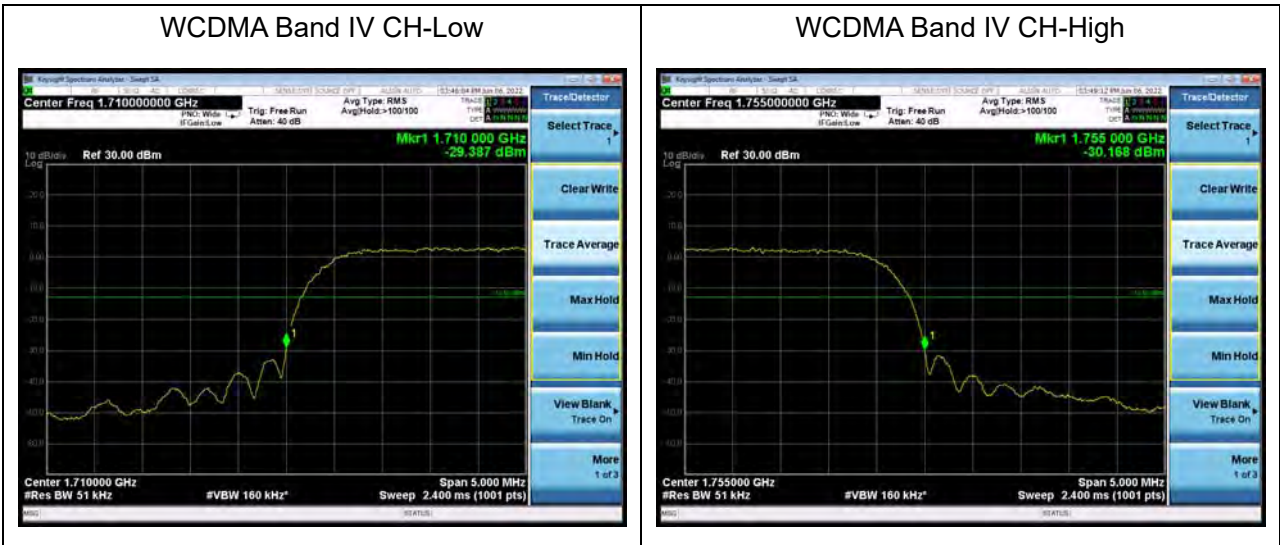


LTE Band 66 64QAM 20MHz CH-High



6.3 Band Edge Compliance

All the test traces in the plots shows the test results clearly.





LTE Band 4 QPSK 1.4MHz CH-Low, 1 RB



LTE Band 4 QPSK 1.4MHz CH-High, 1 RB



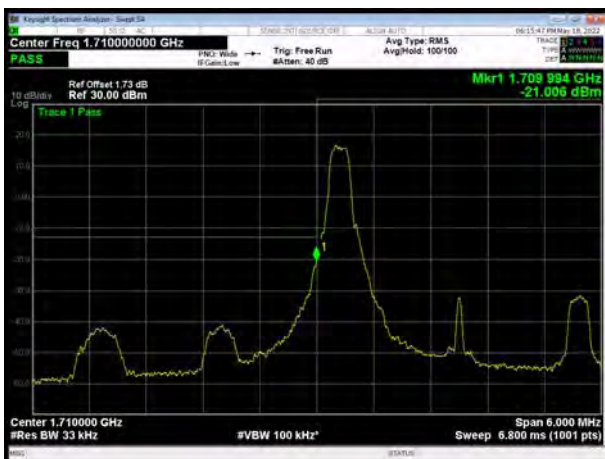
LTE Band 4 QPSK 1.4MHz CH-Low, 100%RB



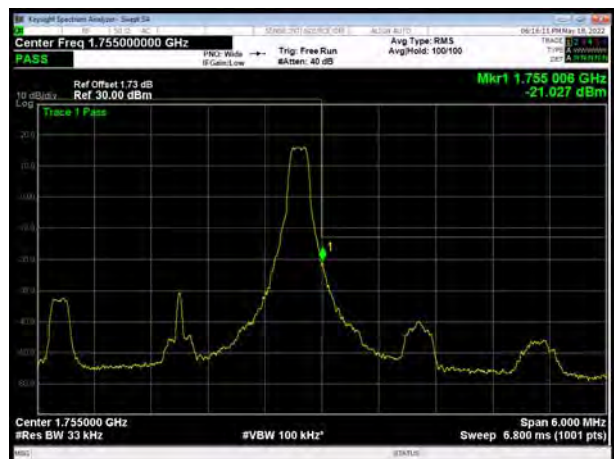
LTE Band 4 QPSK 1.4MHz CH-High, 100%RB



LTE Band 4 QPSK 3MHz CH-Low, 1 RB

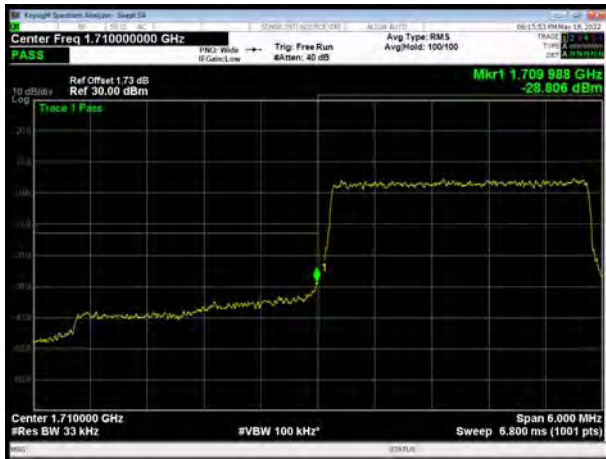


LTE Band 4 QPSK 3MHz CH-High, 1 RB





LTE Band 4 QPSK 3MHz CH-Low, 100%RB



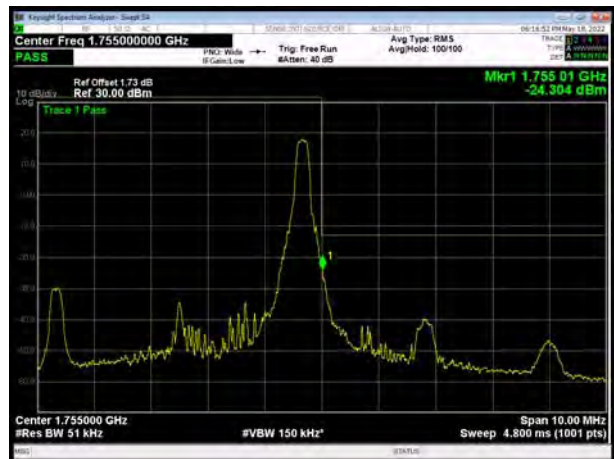
LTE Band 4 QPSK 3MHz CH-High, 100%RB



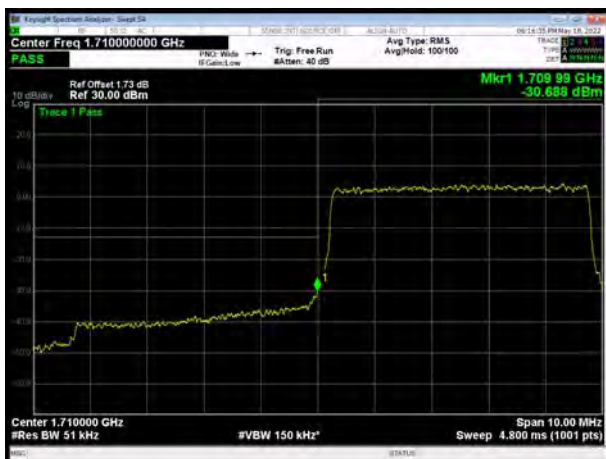
LTE Band 4 QPSK 5MHz CH-Low, 1 RB



LTE Band 4 QPSK 5MHz CH-High, 1 RB



LTE Band 4 QPSK 5MHz CH-Low, 100%RB

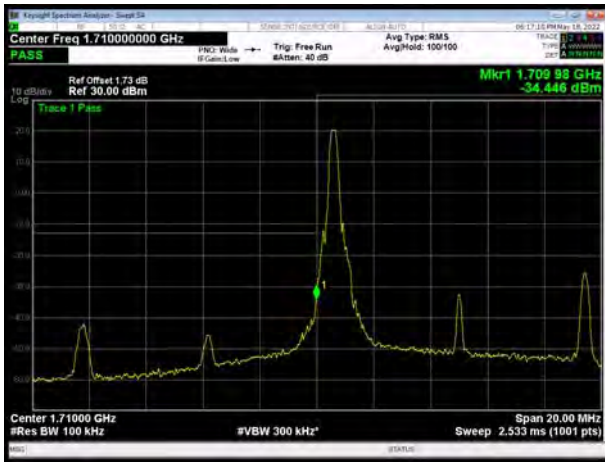


LTE Band 4 QPSK 5MHz CH-High, 100%RB

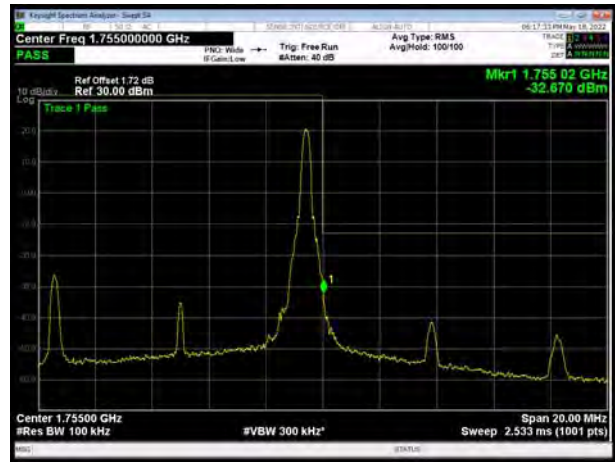




LTE Band 4 QPSK 10MHz CH-Low, 1 RB



LTE Band 4 QPSK 10MHz CH-High, 1 RB



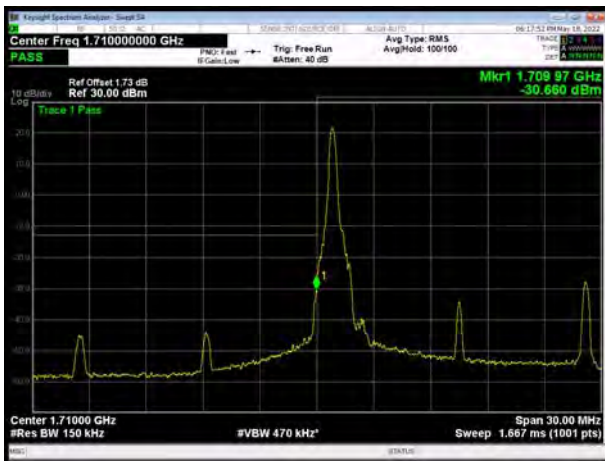
LTE Band 4 QPSK 10MHz CH-Low, 100%RB



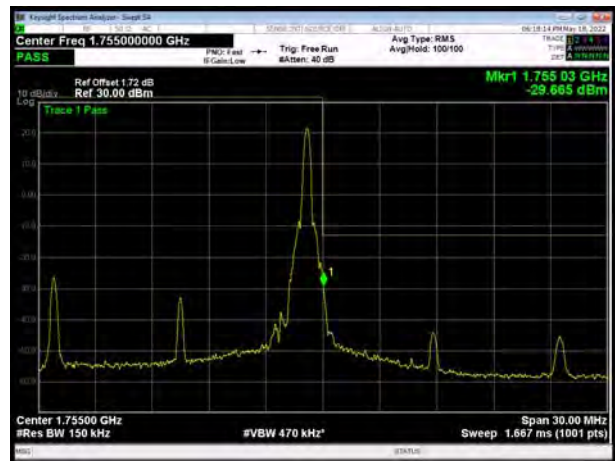
LTE Band 4 QPSK 10MHz CH-High, 100%RB



LTE Band 4 QPSK 15MHz CH-Low, 1 RB

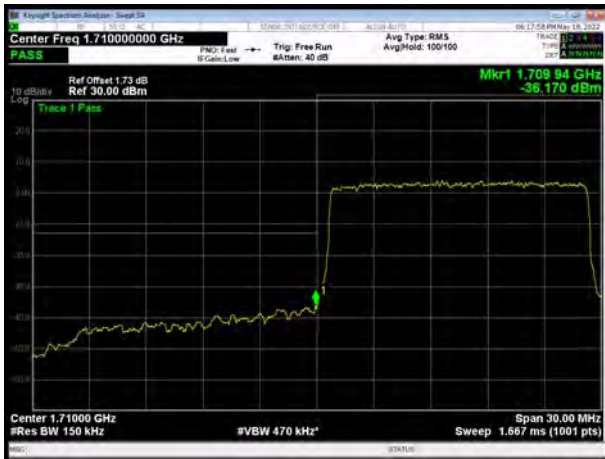


LTE Band 4 QPSK 15MHz CH-High, 1 RB





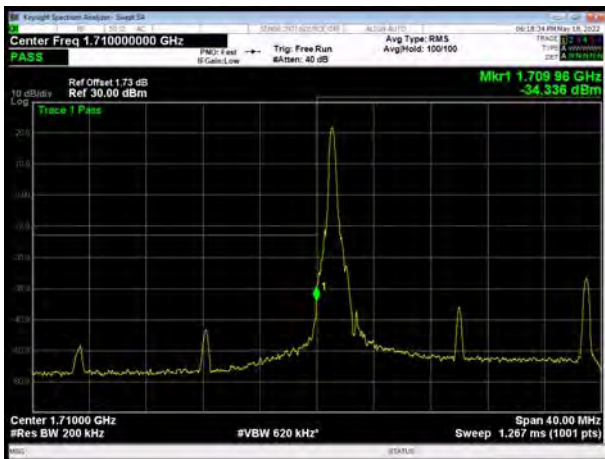
LTE Band 4 QPSK 15MHz CH-Low, 100%RB



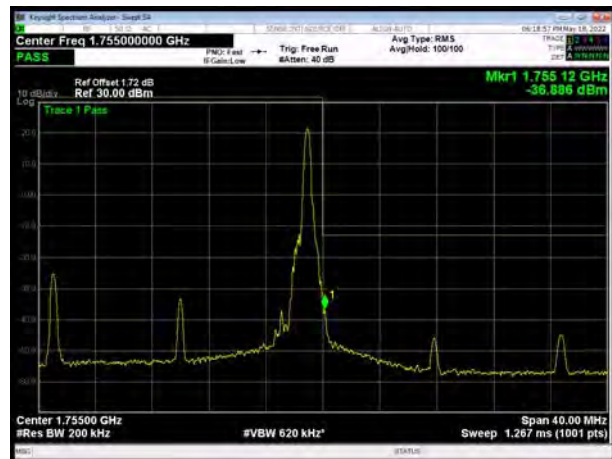
LTE Band 4 QPSK 15MHz CH-High, 100%RB



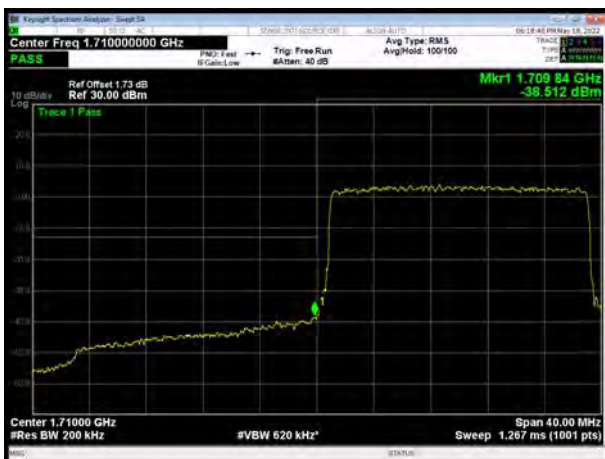
LTE Band 4 QPSK 20MHz CH-Low, 1 RB



LTE Band 4 QPSK 20MHz CH-High, 1 RB



LTE Band 4 QPSK 20MHz CH-Low, 100%RB



LTE Band 4 QPSK 20MHz CH-High, 100%RB





LTE Band 4 16QAM 1.4MHz CH-Low, 1 RB



LTE Band 4 16QAM 1.4MHz CH-High, 1 RB



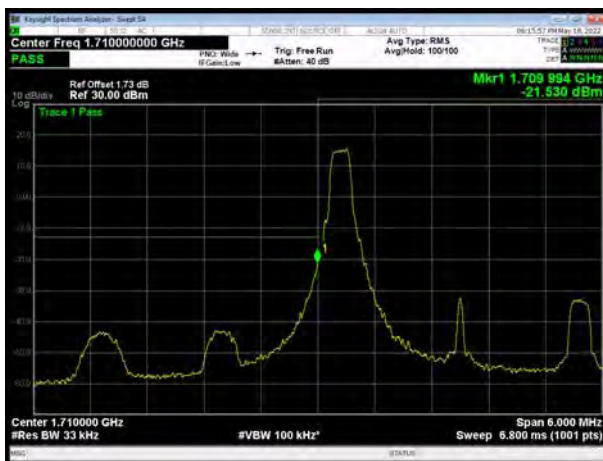
LTE Band 4 16QAM 1.4MHz CH-Low, 100%RB



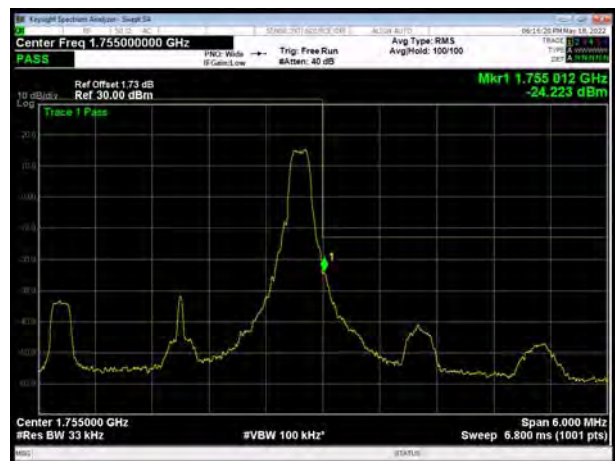
LTE Band 4 16QAM 1.4MHz CH-High, 100%RB



LTE Band 4 16QAM 3MHz CH-Low, 1 RB



LTE Band 4 16QAM 3MHz CH-High, 1 RB





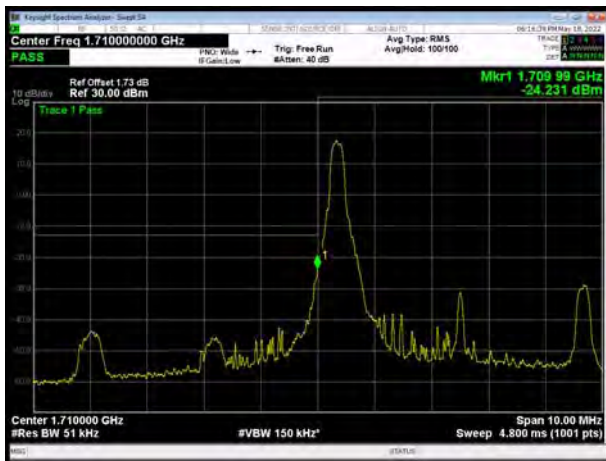
LTE Band 4 16QAM 3MHz CH-Low, 100%RB



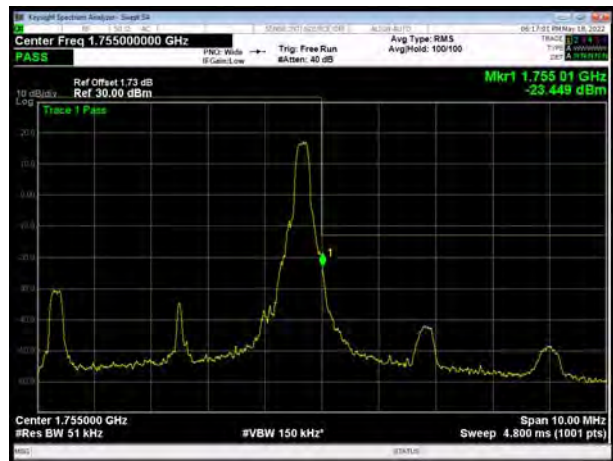
LTE Band 4 16QAM 3MHz CH-High, 100%RB



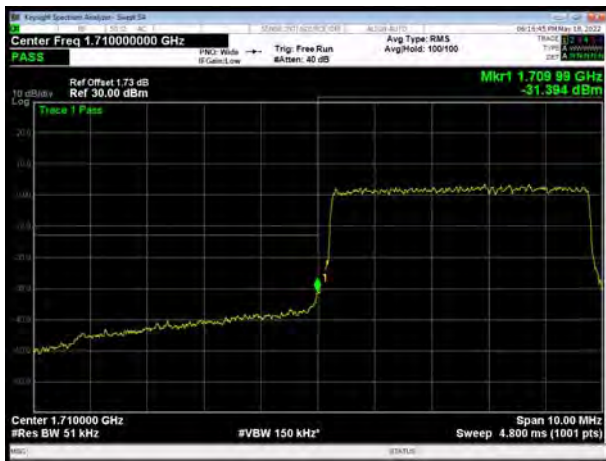
LTE Band 4 16QAM 5MHz CH-Low, 1 RB



LTE Band 4 16QAM 5MHz CH-High, 1 RB



LTE Band 4 16QAM 5MHz CH-Low, 100%RB

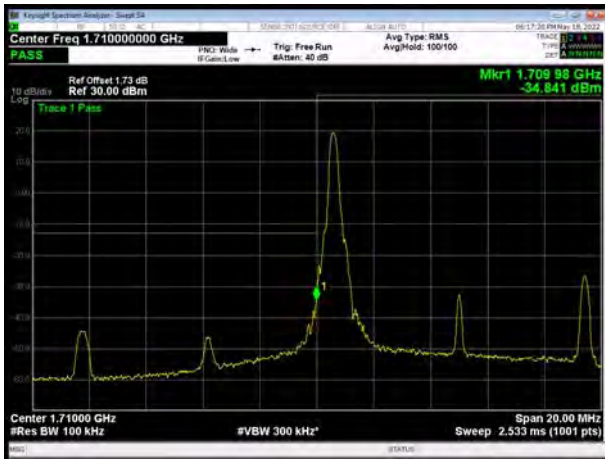


LTE Band 4 16QAM 5MHz CH-High, 100%RB

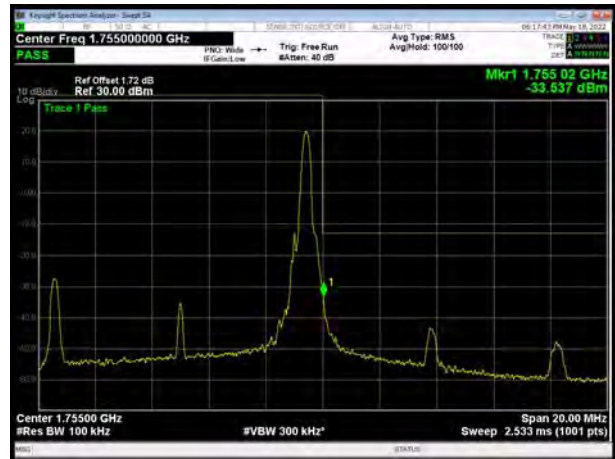




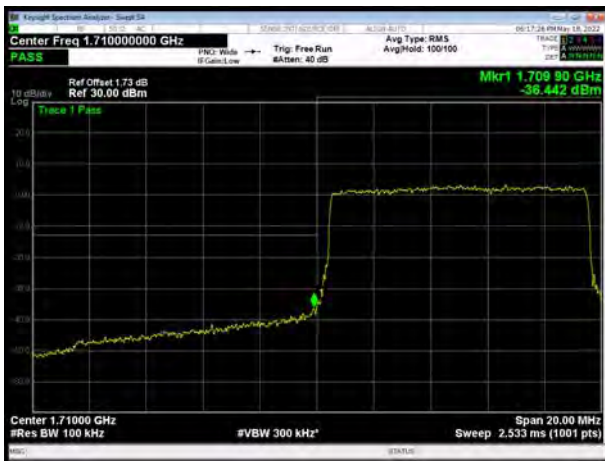
LTE Band 4 16QAM 10MHz CH-Low, 1 RB



LTE Band 4 16QAM 10MHz CH-High, 1 RB



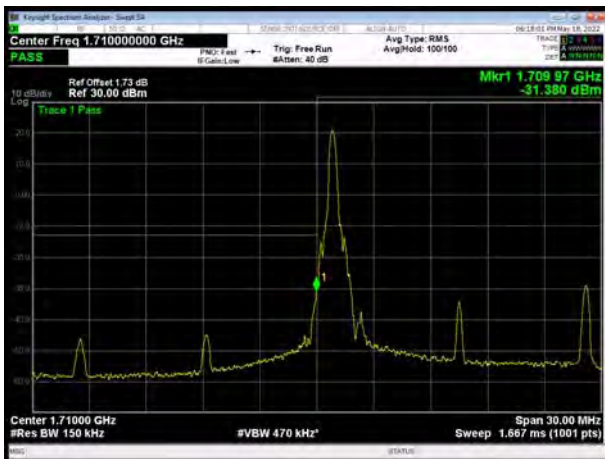
LTE Band 4 16QAM 10MHz CH-Low, 100%RB



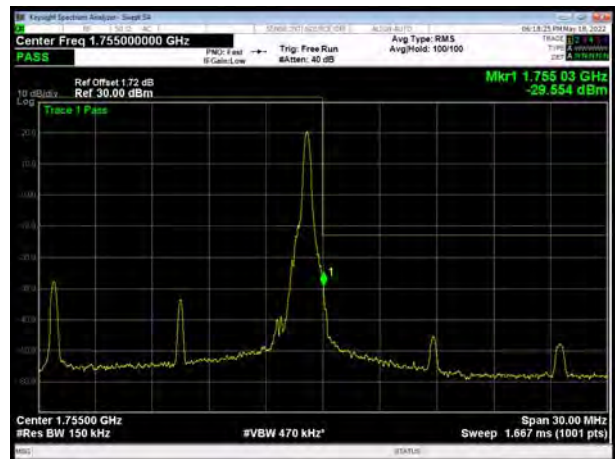
LTE Band 4 16QAM 10MHz CH-High, 100%RB



LTE Band 4 16QAM 15MHz CH-Low, 1 RB



LTE Band 4 16QAM 15MHz CH-High, 1 RB

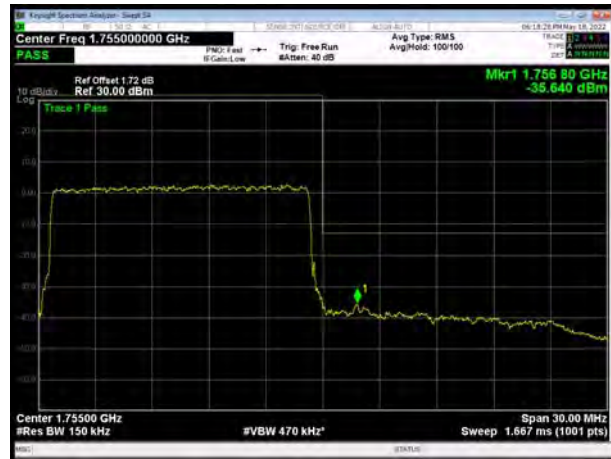




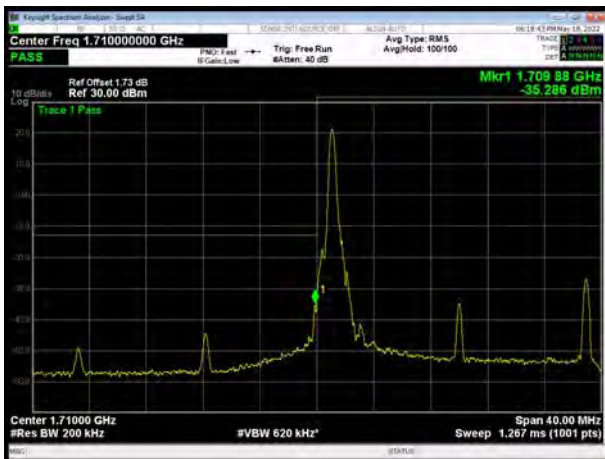
LTE Band 4 16QAM 15MHz CH-Low, 100%RB



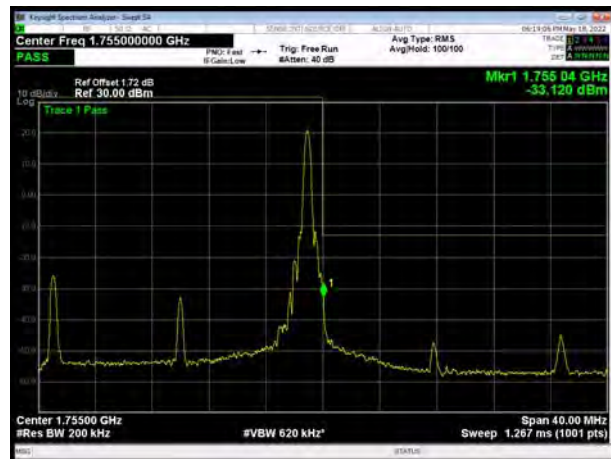
LTE Band 4 16QAM 15MHz CH-High, 100%RB



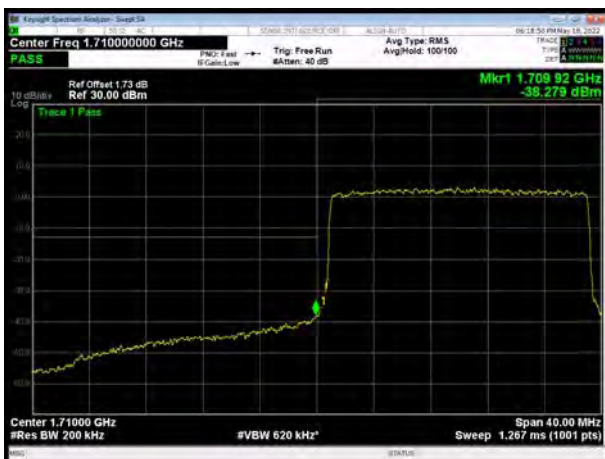
LTE Band 4 16QAM 20MHz CH-Low, 1 RB



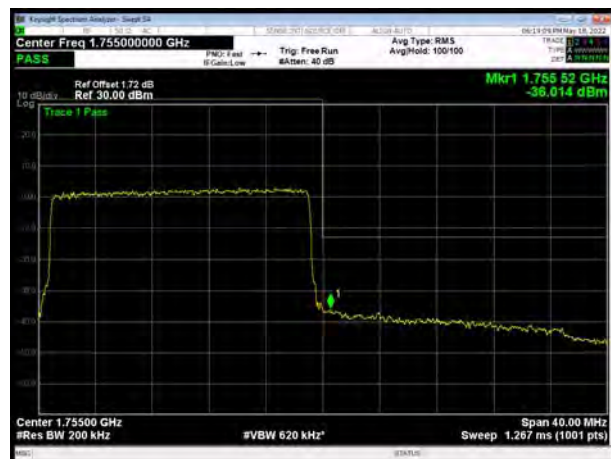
LTE Band 4 16QAM 20MHz CH-High, 1 RB



LTE Band 4 16QAM 20MHz CH-Low, 100%RB

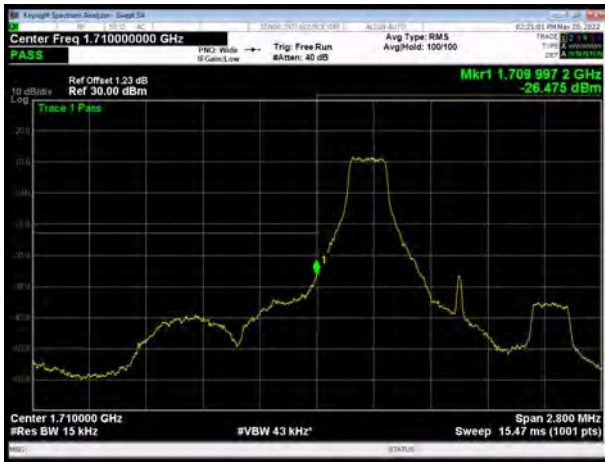


LTE Band 4 16QAM 20MHz CH-High, 100%RB





LTE Band 4 64QAM 1.4MHz CH-Low, 1 RB



LTE Band 4 64QAM 1.4MHz CH-High, 1 RB



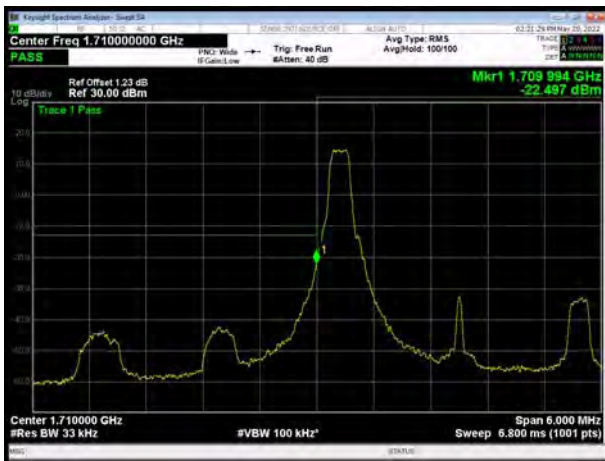
LTE Band 4 64QAM 1.4MHz CH-Low, 100%RB



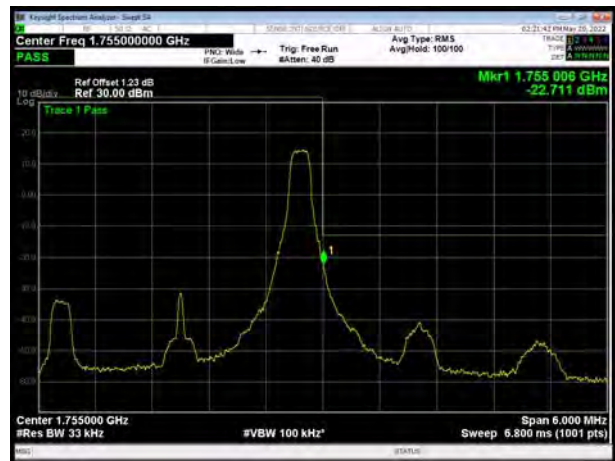
LTE Band 4 64QAM 1.4MHz CH-High, 100%RB



LTE Band 4 64QAM 3MHz CH-Low, 1 RB



LTE Band 4 64QAM 3MHz CH-High, 1 RB

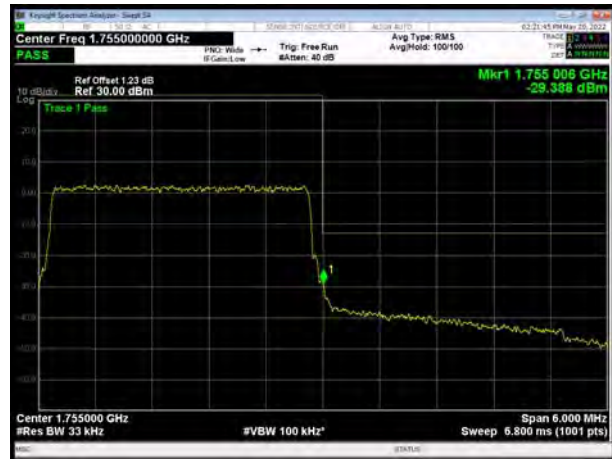




LTE Band 4 64QAM 3MHz CH-Low, 100%RB



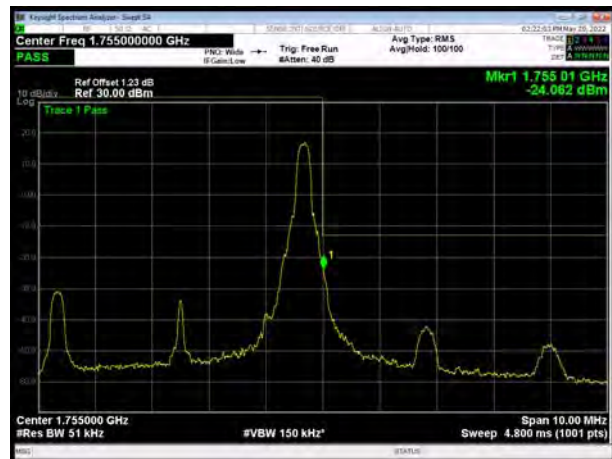
LTE Band 4 64QAM 3MHz CH-High, 100%RB



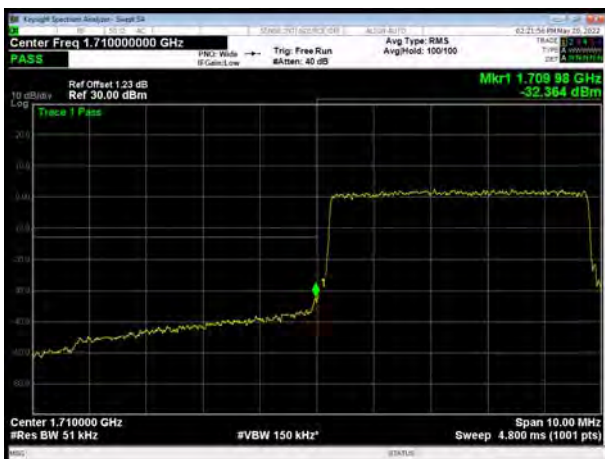
LTE Band 4 64QAM 5MHz CH-Low, 1 RB



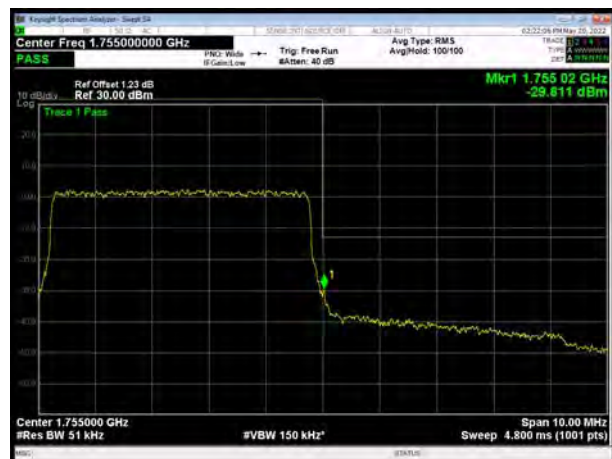
LTE Band 4 64QAM 5MHz CH-High, 1 RB



LTE Band 4 64QAM 5MHz CH-Low, 100%RB

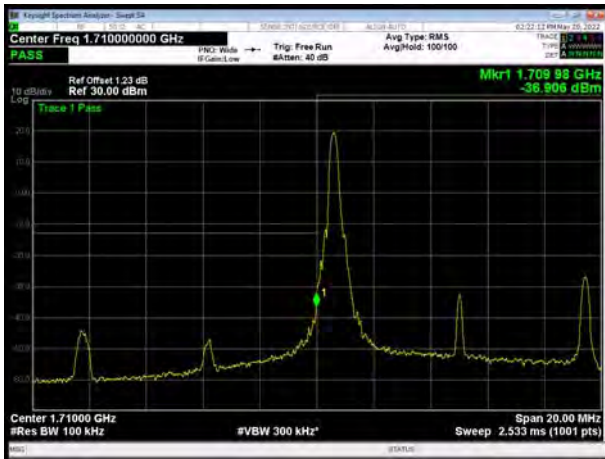


LTE Band 4 64QAM 5MHz CH-High, 100%RB

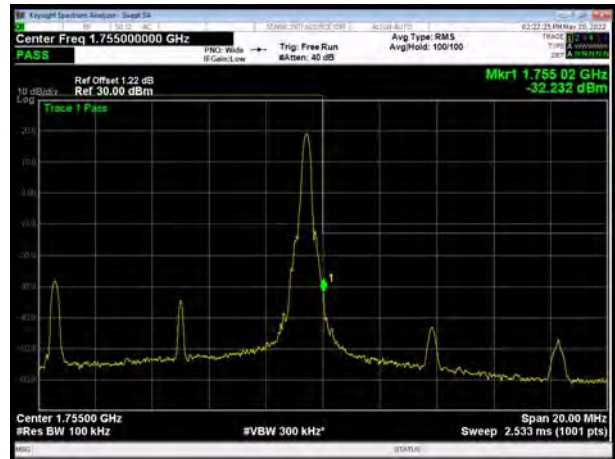




LTE Band 4 64QAM 10MHz CH-Low, 1 RB



LTE Band 4 64QAM 10MHz CH-High, 1 RB



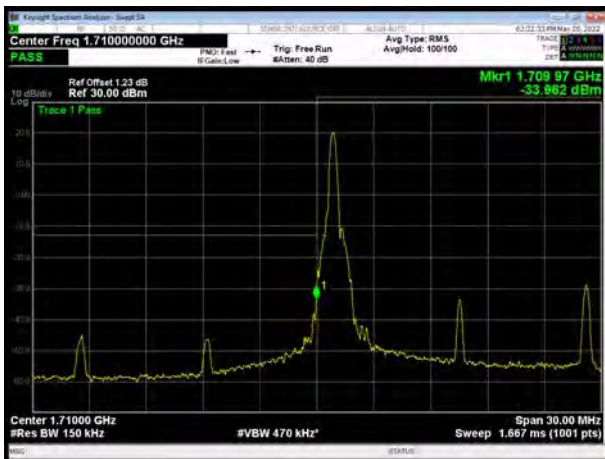
LTE Band 4 64QAM 10MHz CH-Low, 100%RB



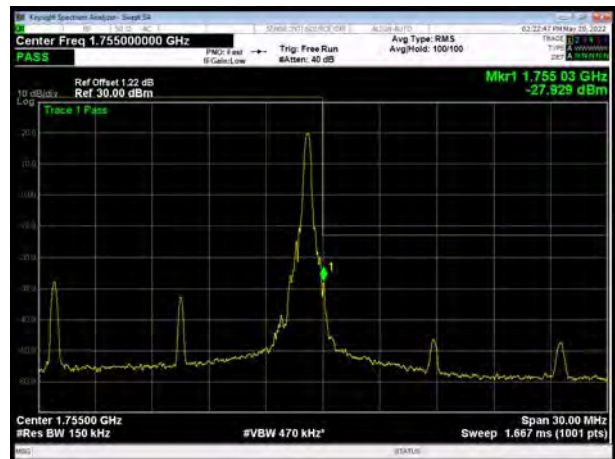
LTE Band 4 64QAM 10MHz CH-High, 100%RB



LTE Band 4 64QAM 15MHz CH-Low, 1 RB



LTE Band 4 64QAM 15MHz CH-High, 1 RB





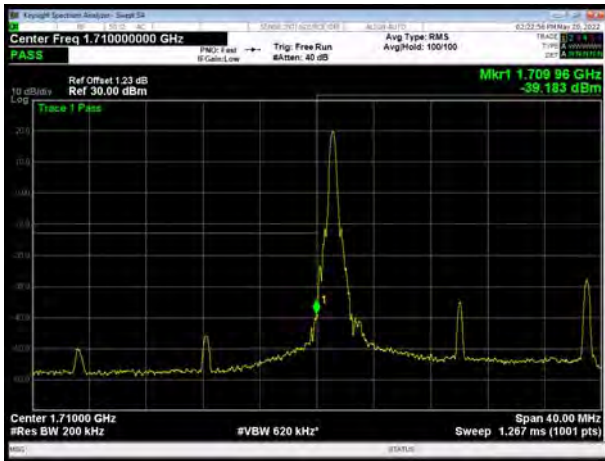
LTE Band 4 64QAM 15MHz CH-Low, 100%RB



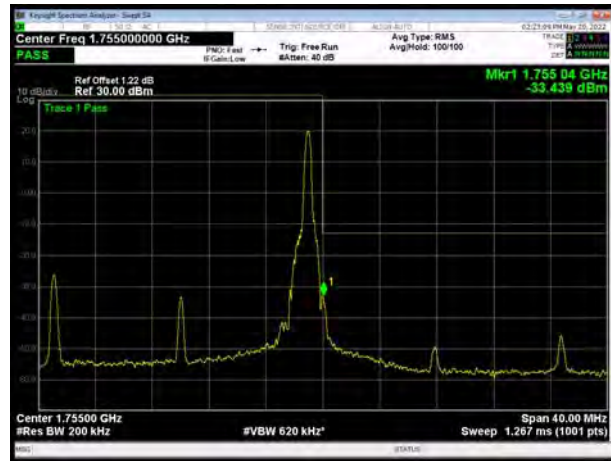
LTE Band 4 64QAM 15MHz CH-High, 100%RB



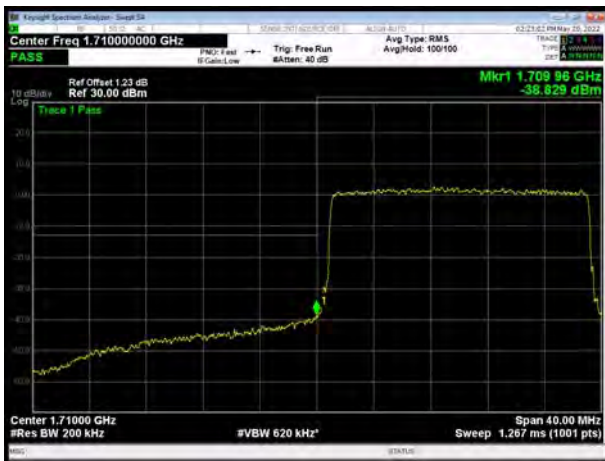
LTE Band 4 64QAM 20MHz CH-Low, 1 RB



LTE Band 4 64QAM 20MHz CH-High, 1 RB



LTE Band 4 64QAM 20MHz CH-Low, 100%RB

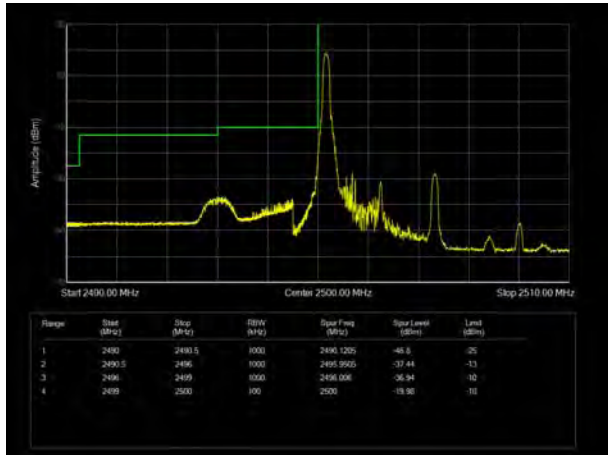


LTE Band 4 64QAM 20MHz CH-High, 100%RB

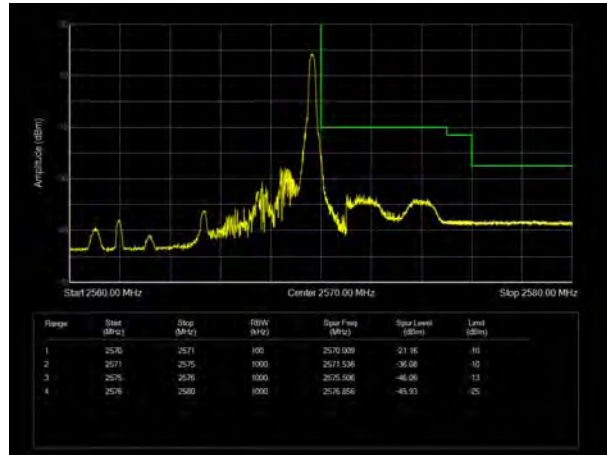




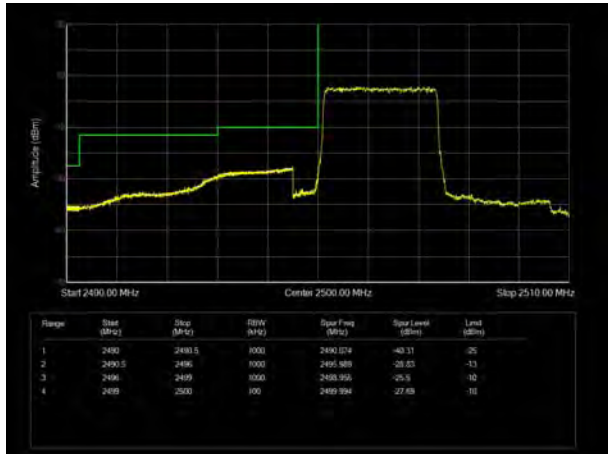
LTE Band 7 QPSK 5MHz CH-Low, 1 RB



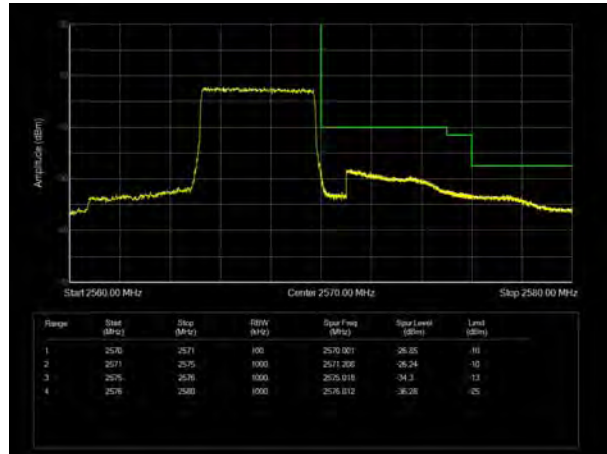
LTE Band 7 QPSK 5MHz CH-High, 1 RB



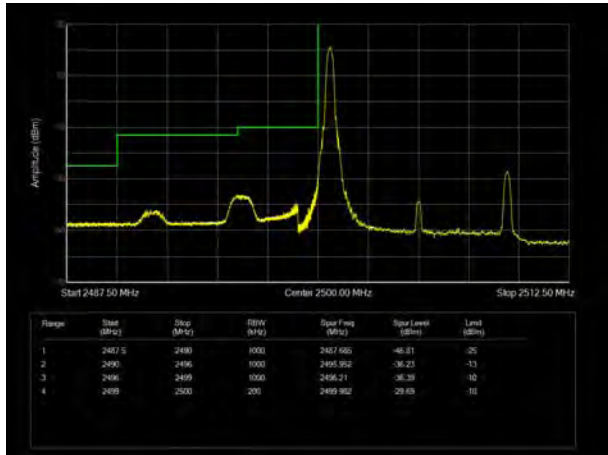
LTE Band 7 QPSK 5MHz CH-Low, 100%RB



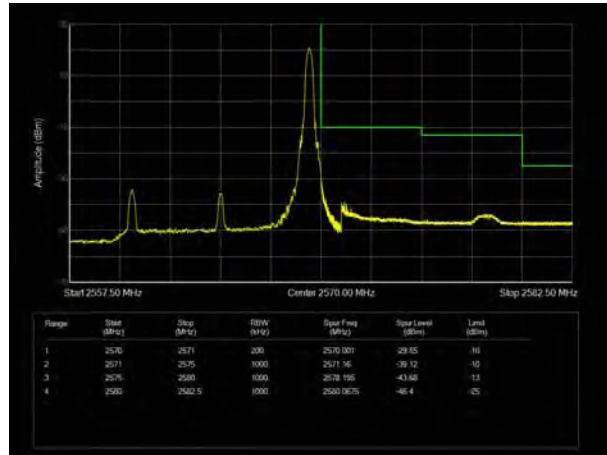
LTE Band 7 QPSK 5MHz CH-High, 100%RB



LTE Band 7 QPSK 10MHz CH-Low, 1 RB

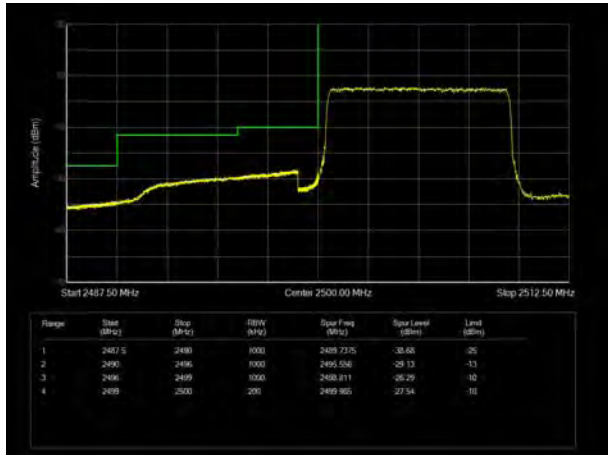


LTE Band 7 QPSK 10MHz CH-High, 1 RB

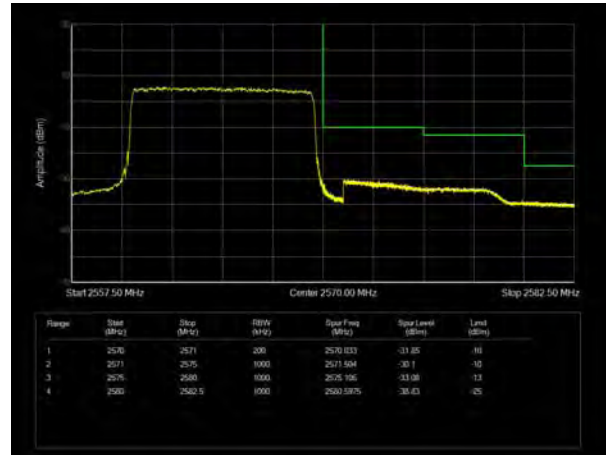




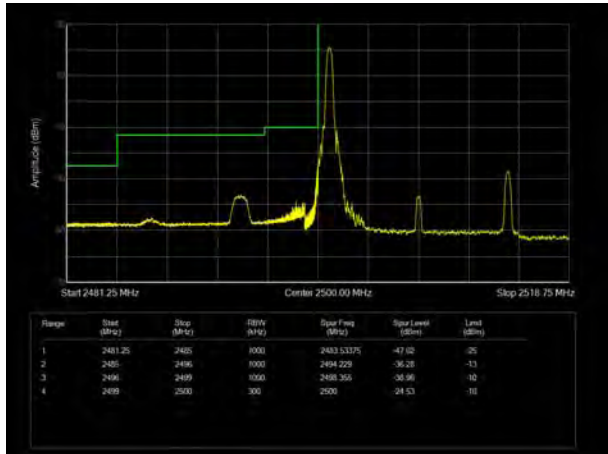
LTE Band 7 QPSK 10MHz CH-Low, 100%RB



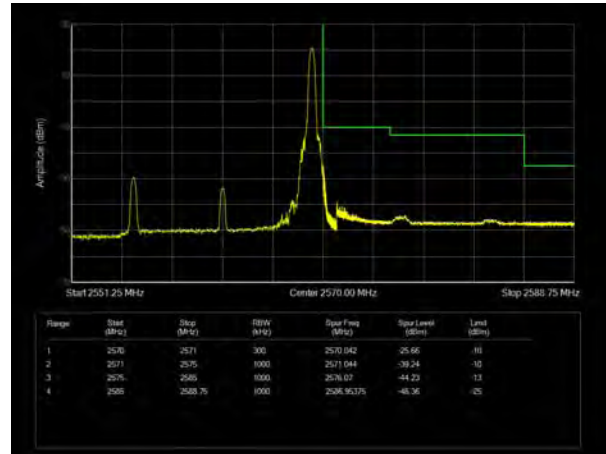
LTE Band 7 QPSK 10MHz CH-High, 100%RB



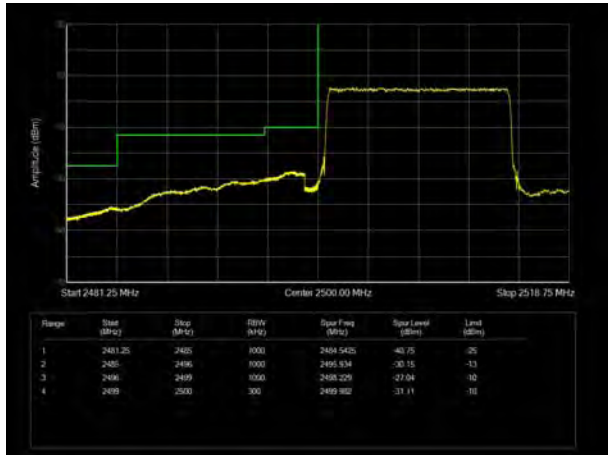
LTE Band 7 QPSK 15MHz CH-Low, 1 RB



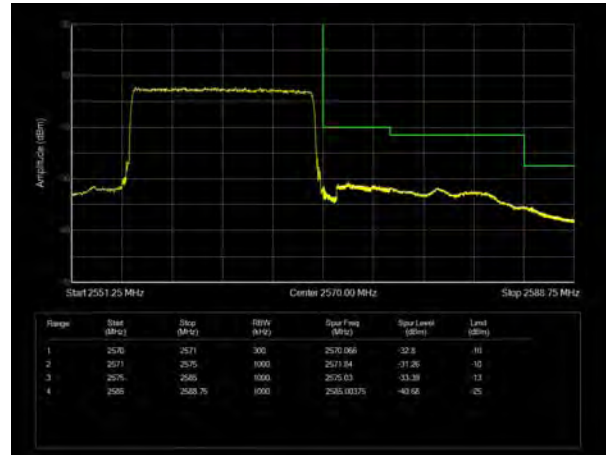
LTE Band 7 QPSK 15MHz CH-High, 1 RB



LTE Band 7 QPSK 15MHz CH-Low, 100%RB

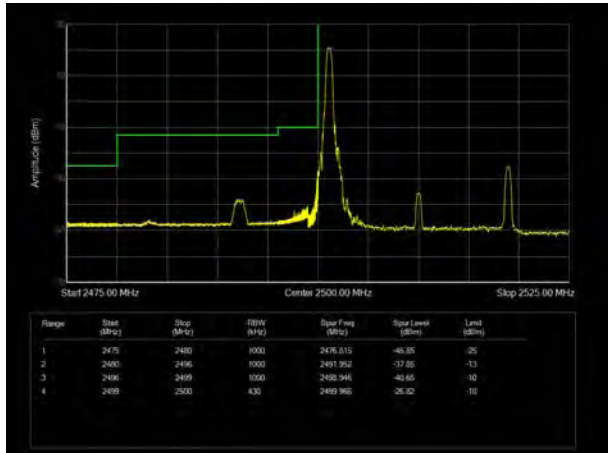


LTE Band 7 QPSK 15MHz CH-High, 100%RB

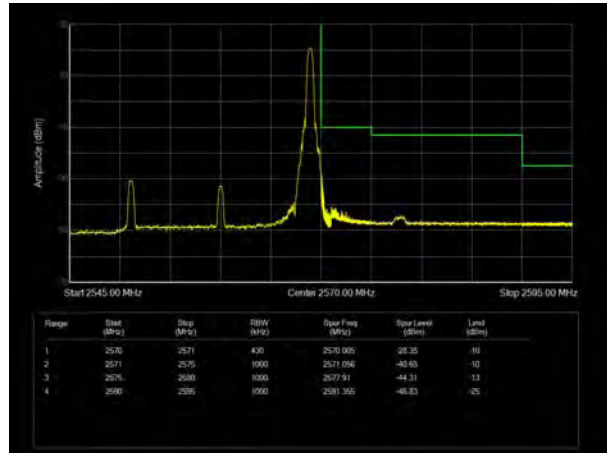




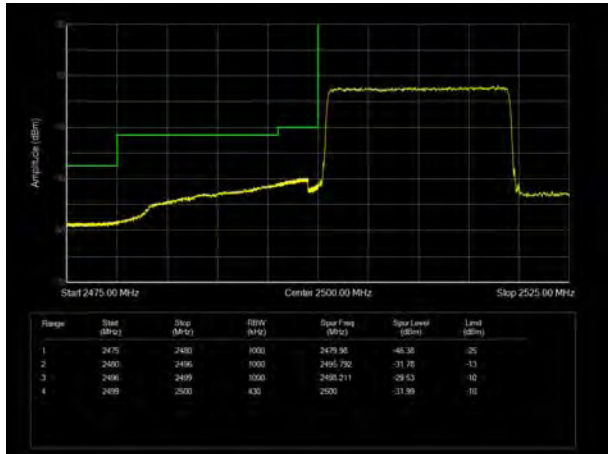
LTE Band 7 QPSK 20MHz CH-Low, 1 RB



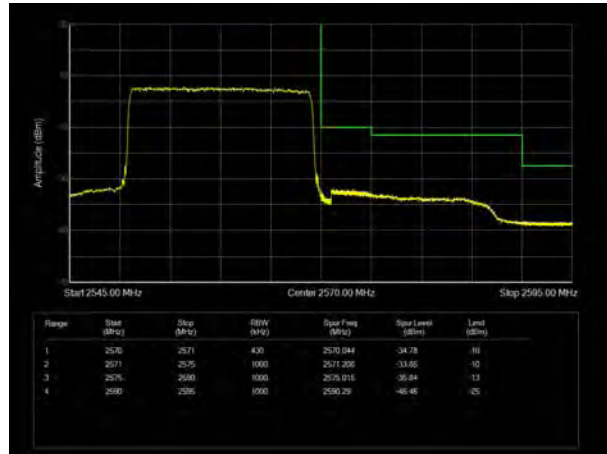
LTE Band 7 QPSK 20MHz CH-High, 1 RB



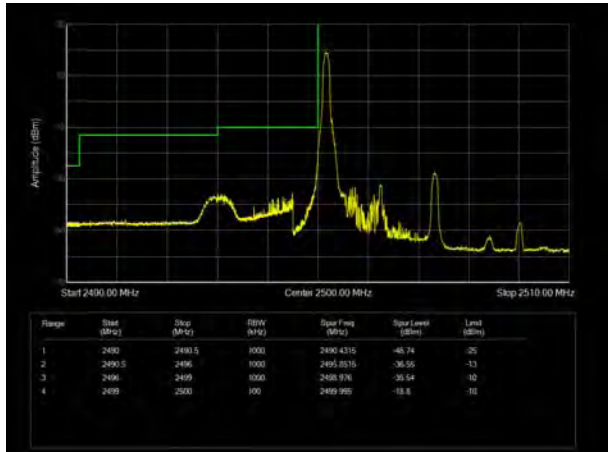
LTE Band 7 QPSK 20MHz CH-Low, 100%RB



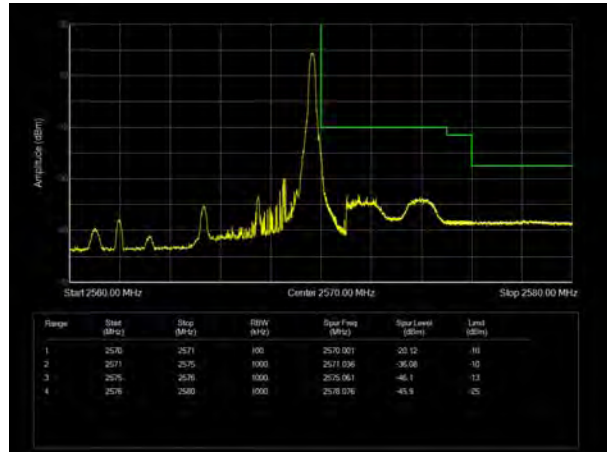
LTE Band 7 QPSK 20MHz CH-High, 100%RB



LTE Band 7 16QAM 5MHz CH-Low, 1 RB

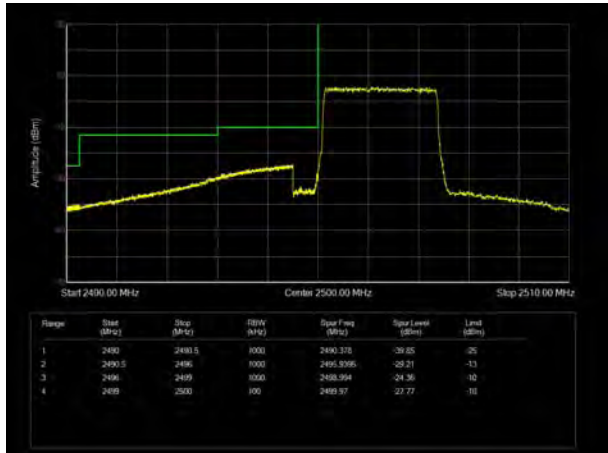


LTE Band 7 16QAM 5MHz CH-High, 1 RB

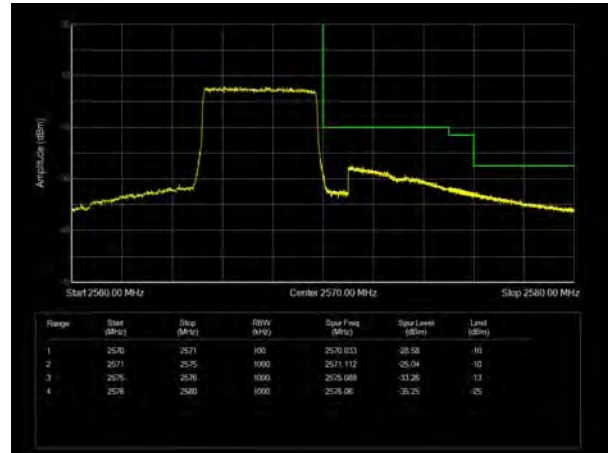




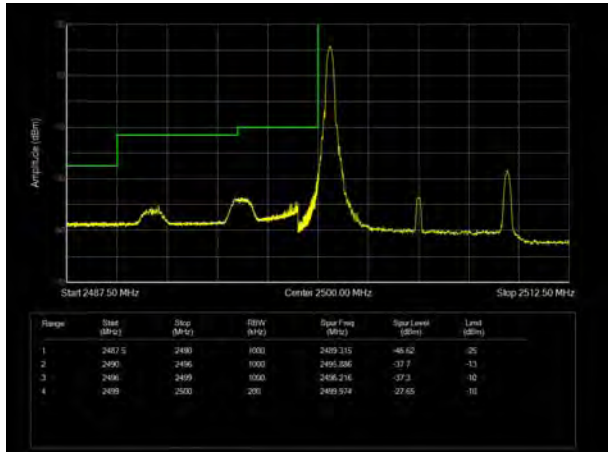
LTE Band 7 16QAM 5MHz CH-Low, 100%RB



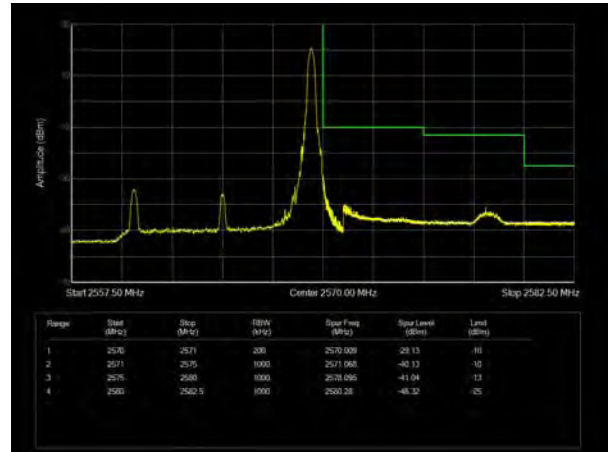
LTE Band 7 16QAM 5MHz CH-High, 100%RB



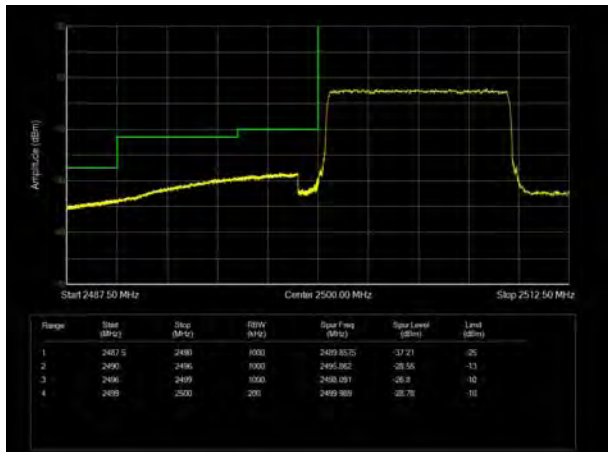
LTE Band 7 16QAM 10MHz CH-Low, 1 RB



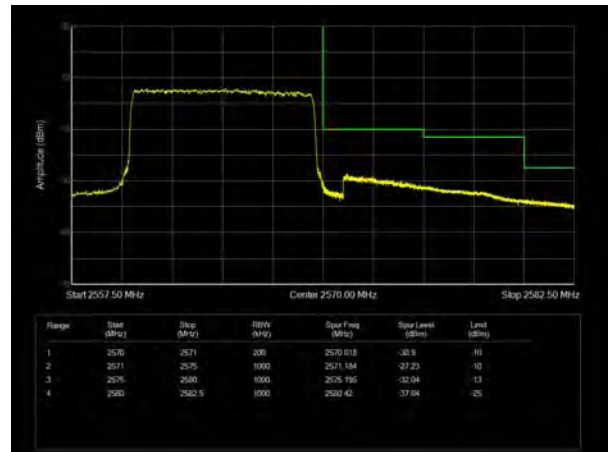
LTE Band 7 16QAM 10MHz CH-High, 1 RB



LTE Band 7 16QAM 10MHz CH-Low, 100%RB

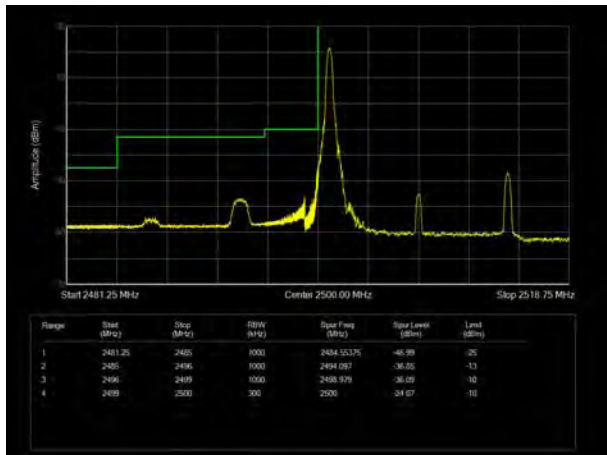


LTE Band 7 16QAM 10MHz CH-High, 100%RB

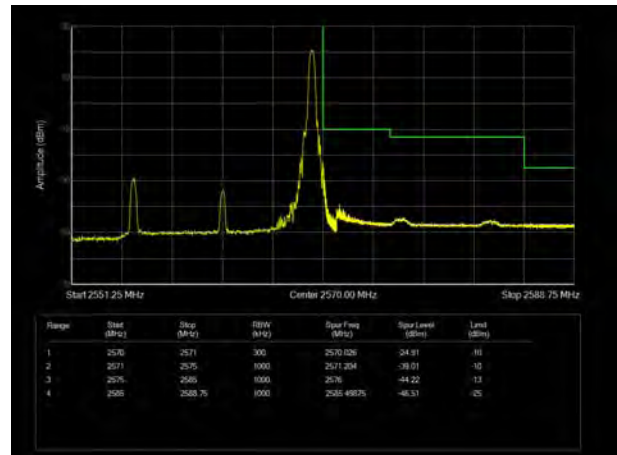




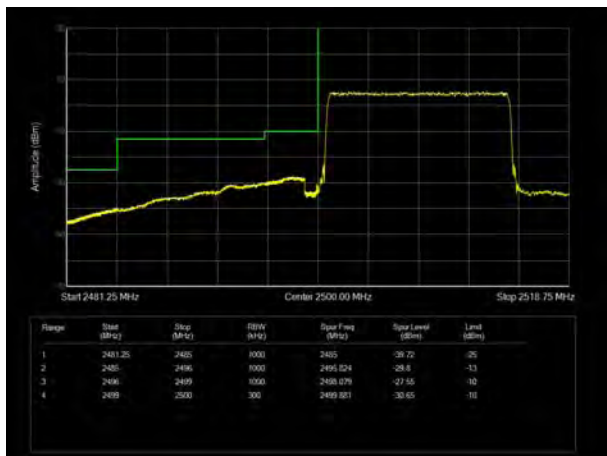
LTE Band 7 16QAM 15MHz CH-Low, 1 RB



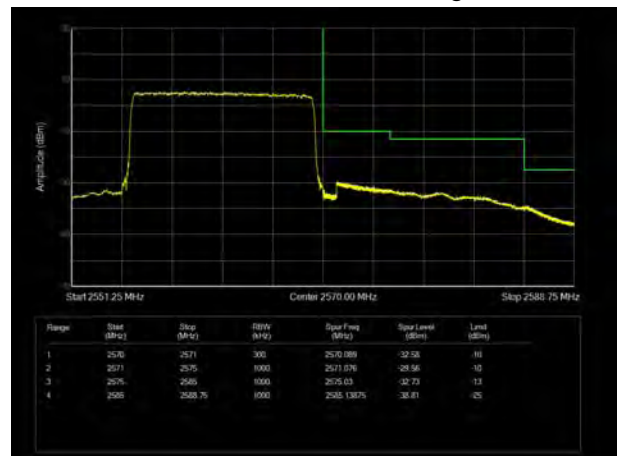
LTE Band 7 16QAM 15MHz CH-High, 1 RB



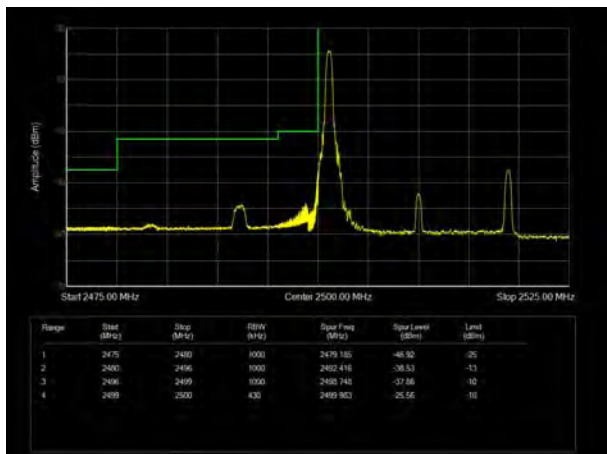
LTE Band 7 16QAM 15MHz CH-Low, 100%RB



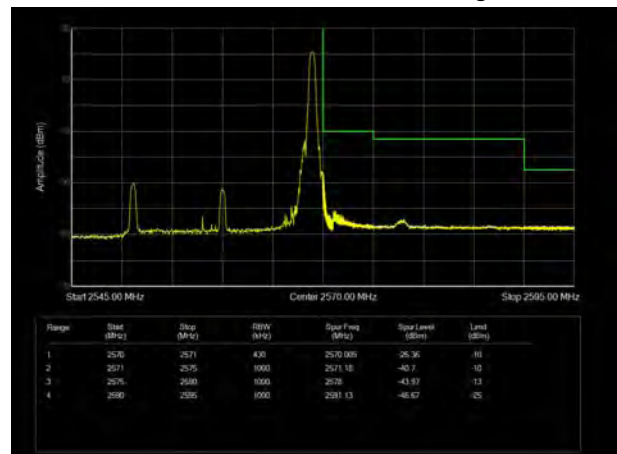
LTE Band 7 16QAM 15MHz CH-High, 100%RB



LTE Band 7 16QAM 20MHz CH-Low, 1 RB

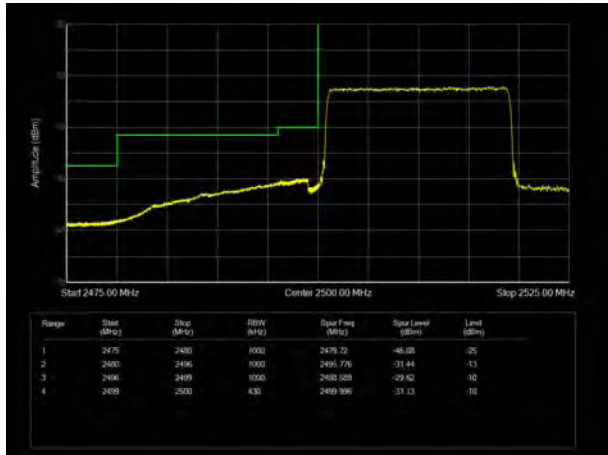


LTE Band 7 16QAM 20MHz CH-High, 1 RB

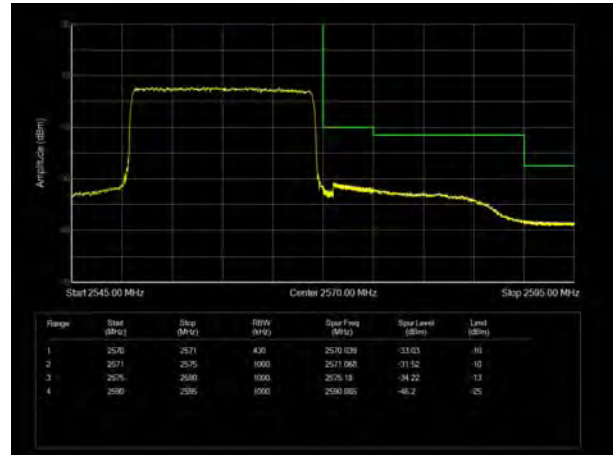




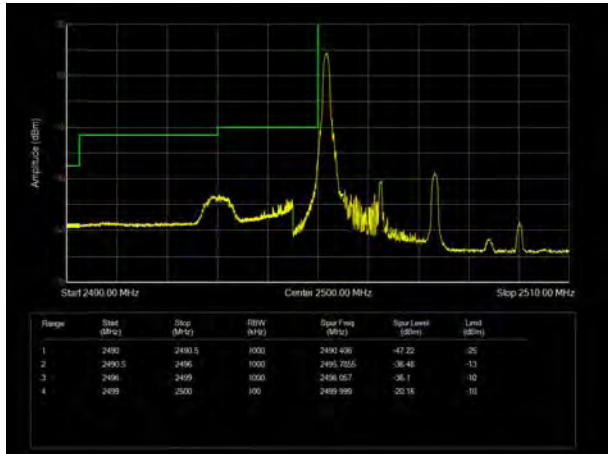
LTE Band 7 16QAM 20MHz CH-Low, 100%RB



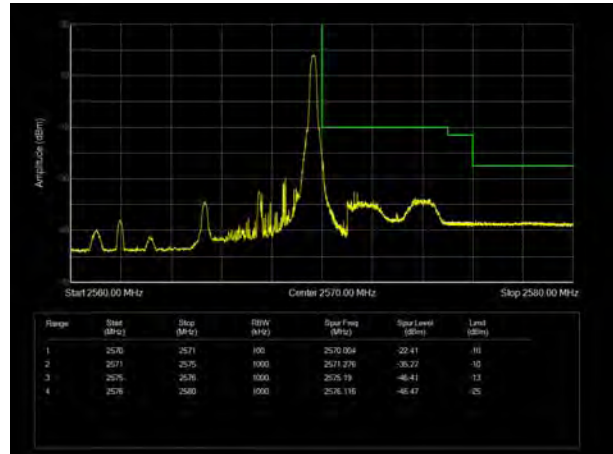
LTE Band 7 16QAM 20MHz CH-High, 100%RB



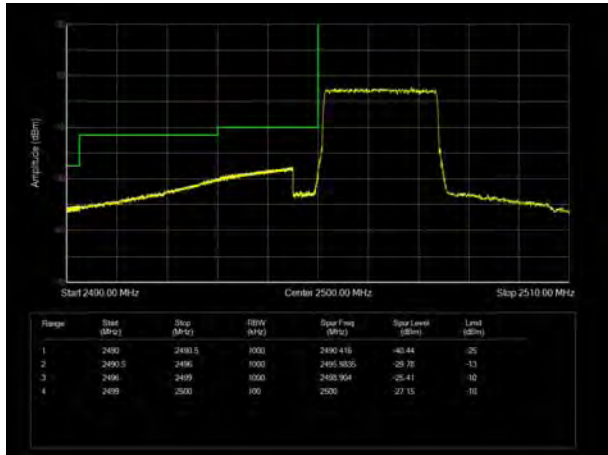
LTE Band 7 64QAM 5MHz CH-Low, 1 RB



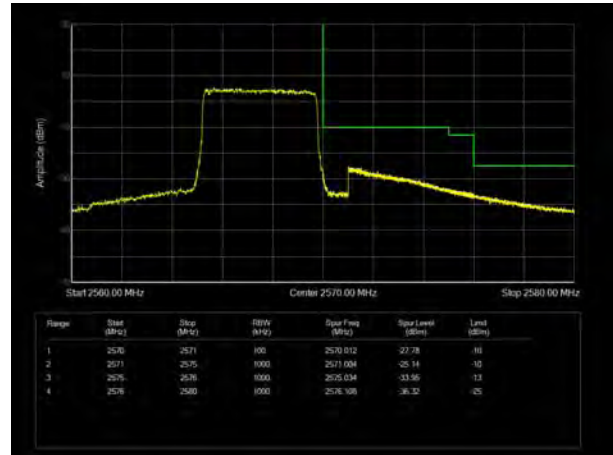
LTE Band 7 64QAM 5MHz CH-High, 1 RB



LTE Band 7 64QAM 5MHz CH-Low, 100%RB

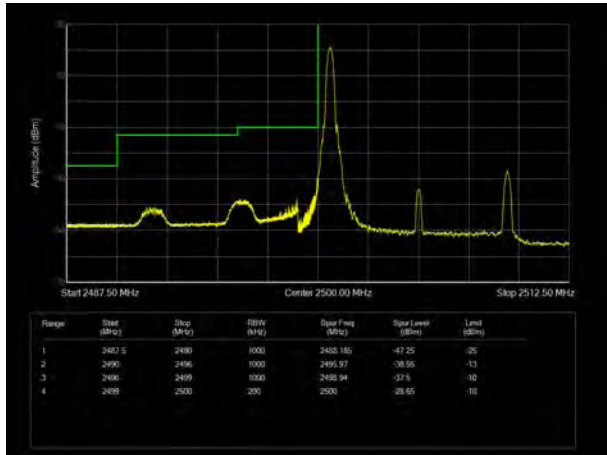


LTE Band 7 64QAM 5MHz CH-High, 100%RB

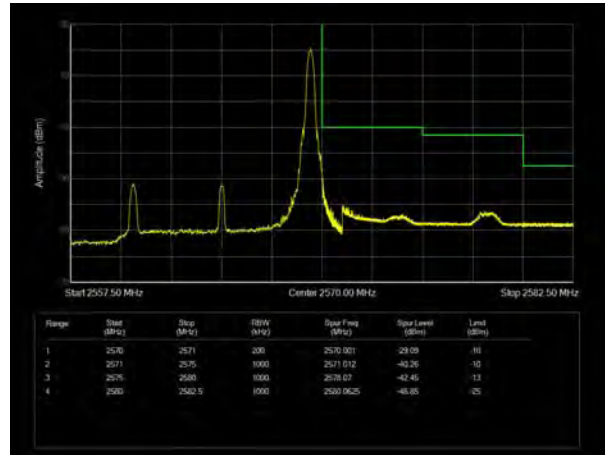




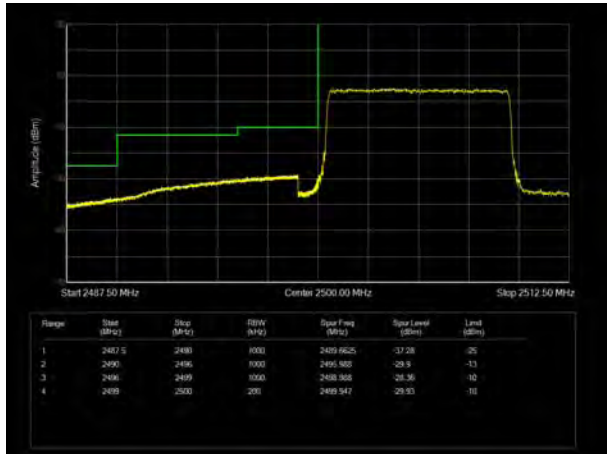
LTE Band 7 64QAM 10MHz CH-Low, 1 RB



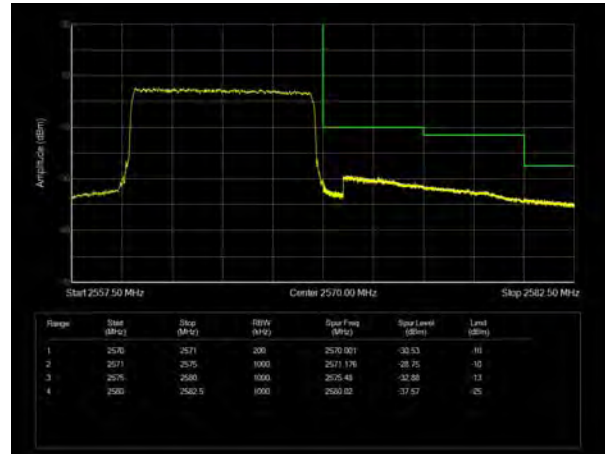
LTE Band 7 64QAM 10MHz CH-High, 1 RB



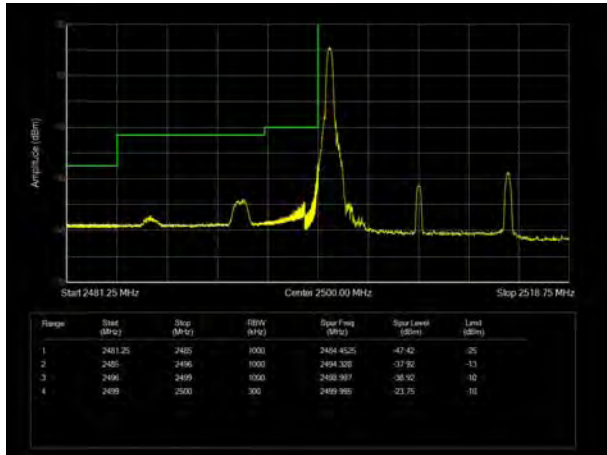
LTE Band 7 64QAM 10MHz CH-Low, 100%RB



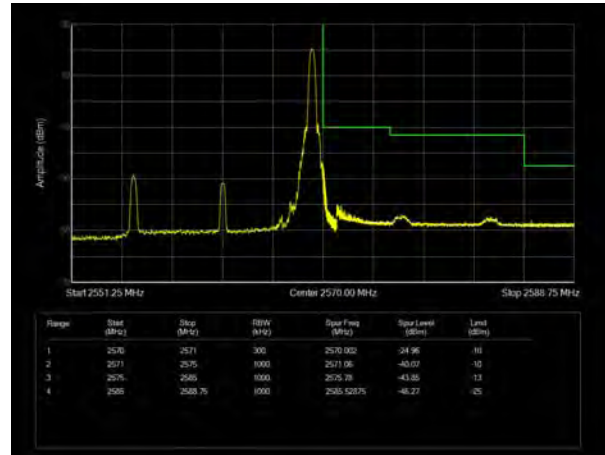
LTE Band 7 64QAM 10MHz CH-High, 100%RB



LTE Band 7 64QAM 15MHz CH-Low, 1 RB

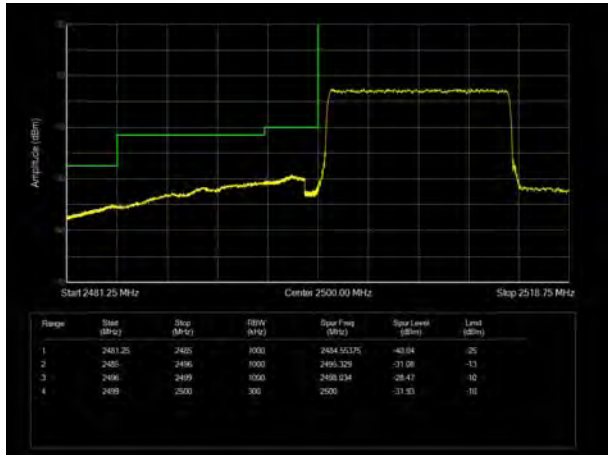


LTE Band 7 64QAM 15MHz CH-High, 1 RB

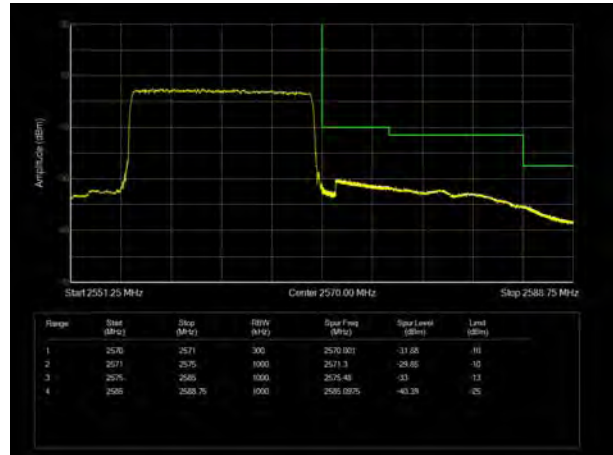




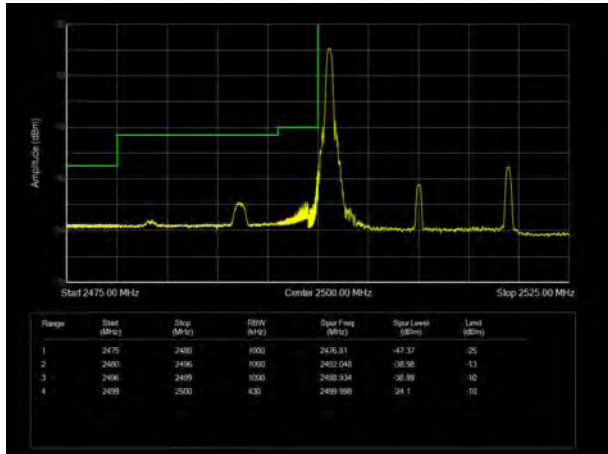
LTE Band 7 64QAM 15MHz CH-Low, 100%RB



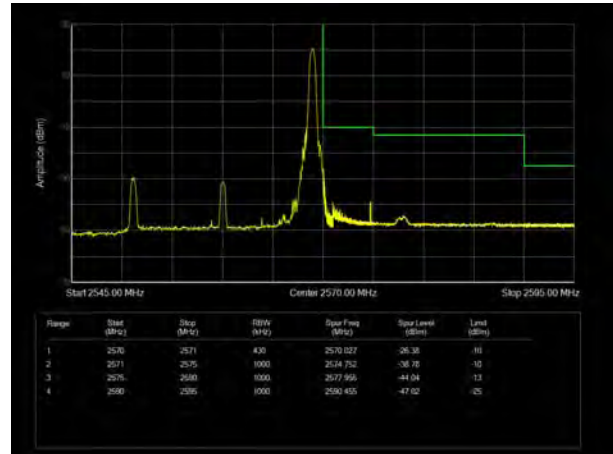
LTE Band 7 64QAM 15MHz CH-High, 100%RB



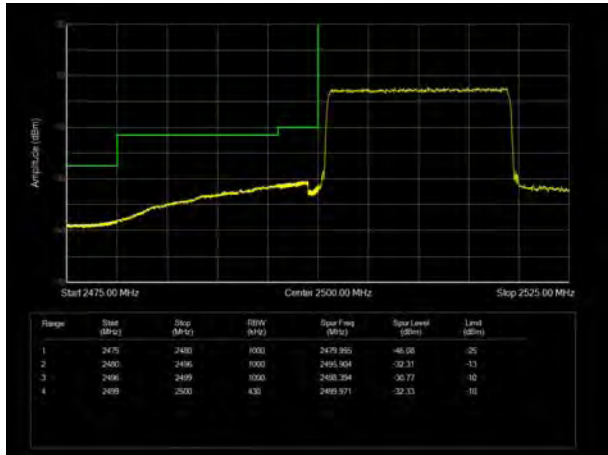
LTE Band 7 64QAM 20MHz CH-Low, 1 RB



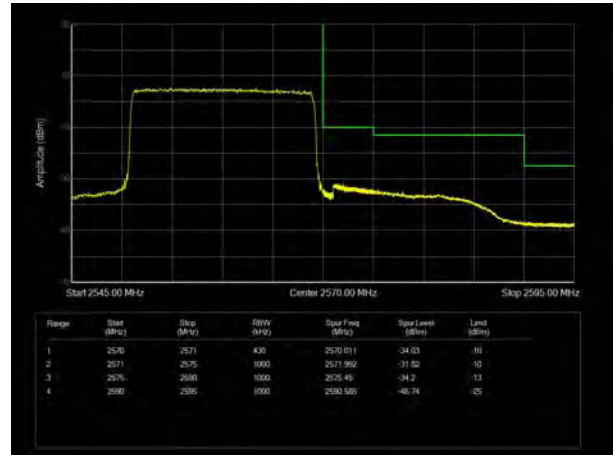
LTE Band 7 64QAM 20MHz CH-High, 1 RB



LTE Band 7 64QAM 20MHz CH-Low, 100%RB

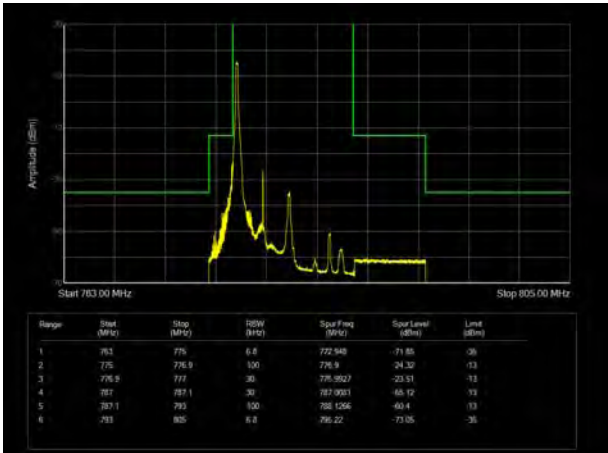


LTE Band 7 64QAM 20MHz CH-High, 100%RB

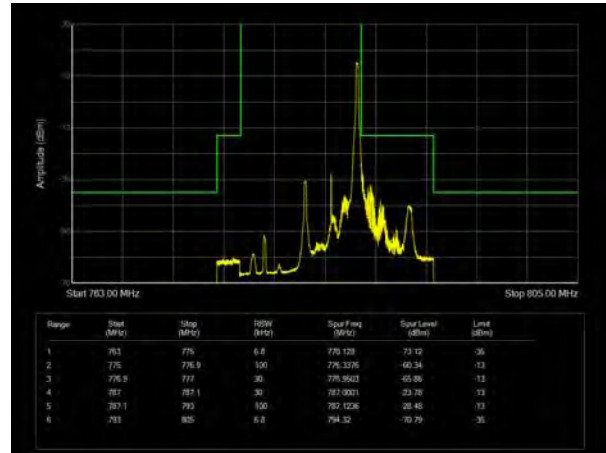




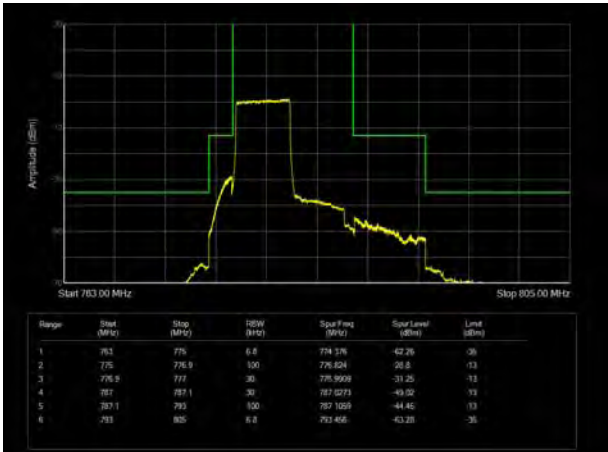
LTE Band 13 QPSK 5MHz CH-Low, 1 RB



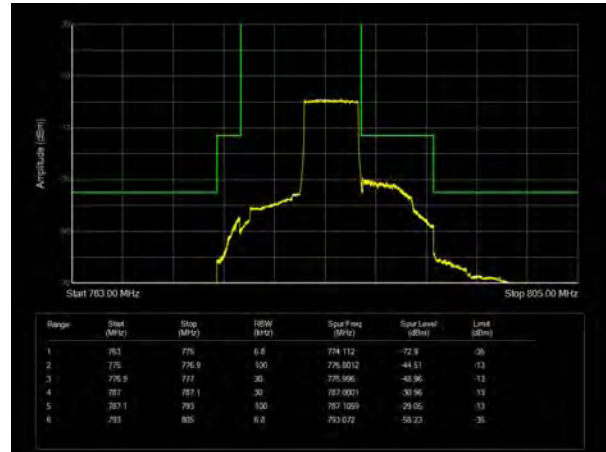
LTE Band 13 QPSK 5MHz CH-High, 1 RB



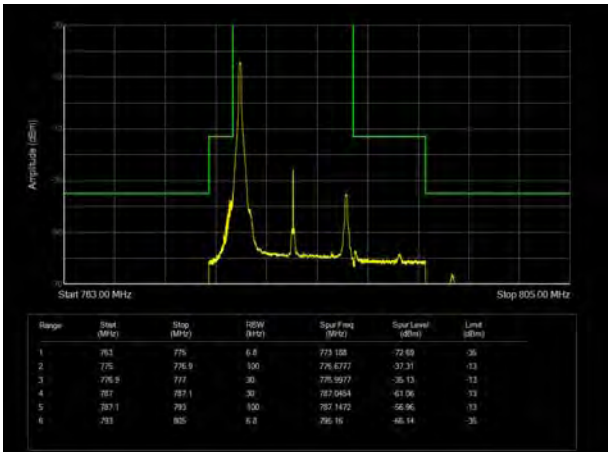
LTE Band 13 QPSK 5MHz CH-Low, 100%RB



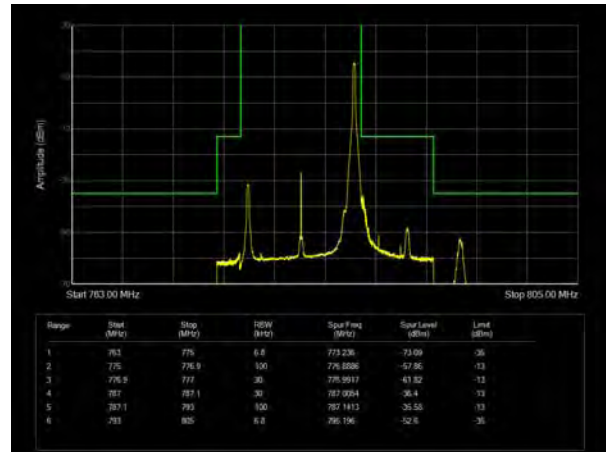
LTE Band 13 QPSK 5MHz CH-High, 100%RB



LTE Band 13 QPSK 10MHz CH-Low, 1 RB

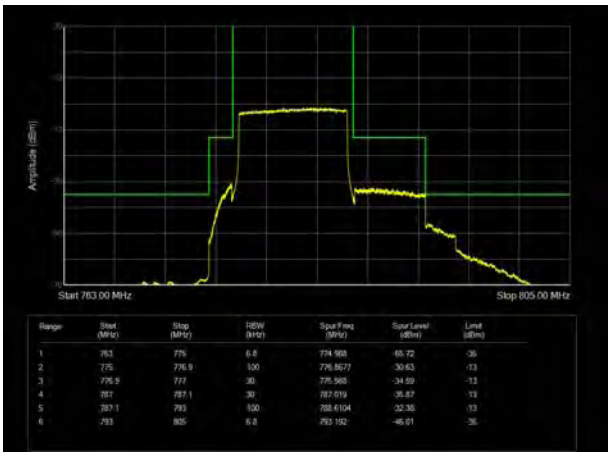


LTE Band 13 QPSK 10MHz CH-High, 1 RB

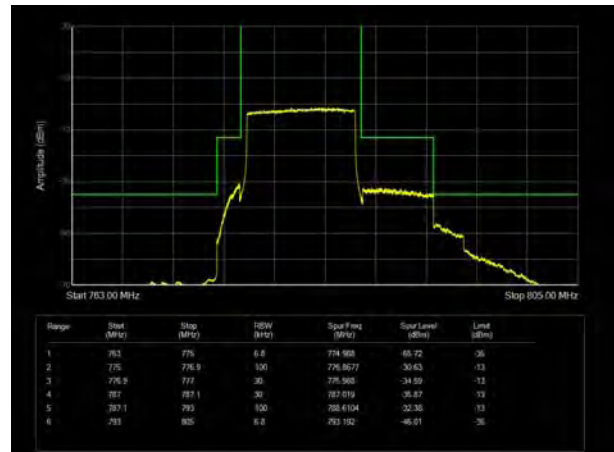




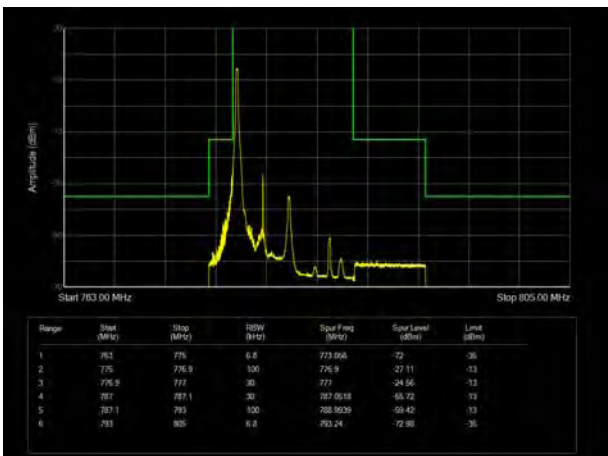
LTE Band 13 QPSK 10MHz CH-Low, 100%RB



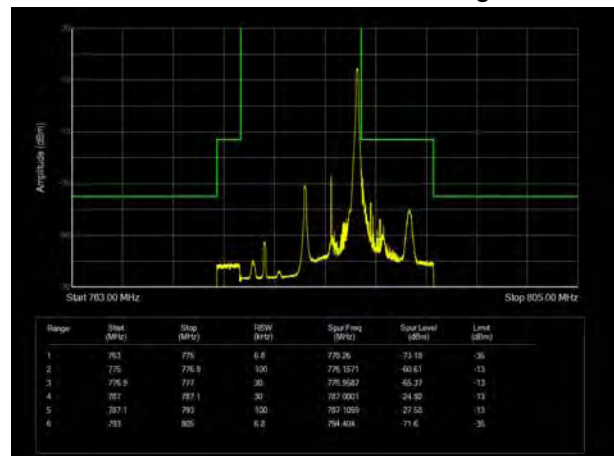
LTE Band 13 QPSK 10MHz CH-High, 100%RB



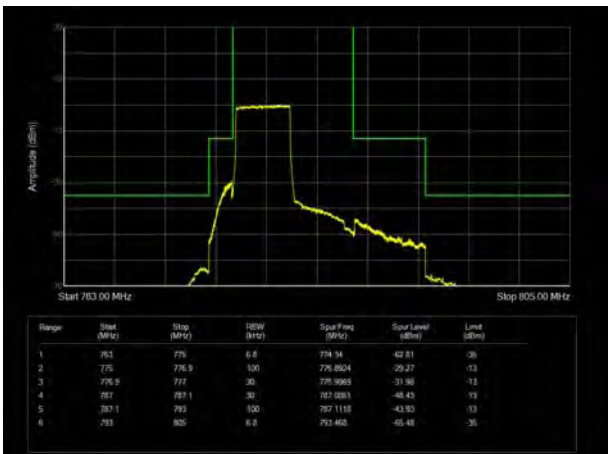
LTE Band 13 16QAM 5MHz CH-Low, 1 RB



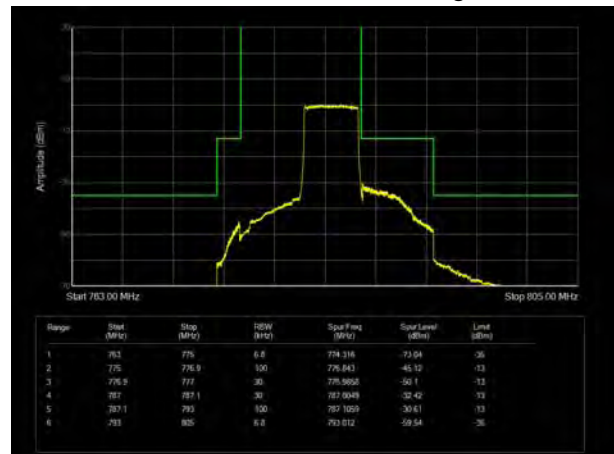
LTE Band 13 16QAM 5MHz CH-High, 1 RB



LTE Band 13 16QAM 5MHz CH-Low, 100%RB

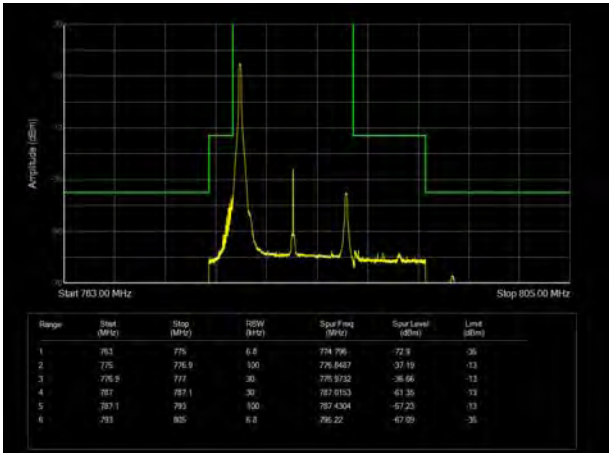


LTE Band 13 16QAM 5MHz CH-High, 100%RB





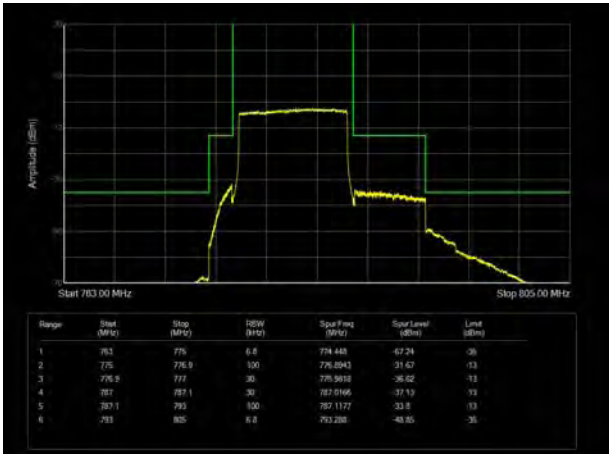
LTE Band 13 16QAM 10MHz CH-Low, 1 RB



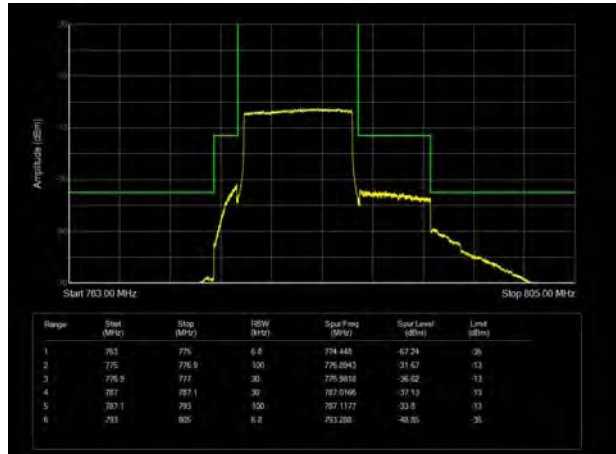
LTE Band 13 16QAM 10MHz CH-High, 1 RB



LTE Band 13 16QAM 10MHz CH-Low, 100%RB



LTE Band 13 16QAM 10MHz CH-High, 100%RB



LTE Band 13 64QAM 5MHz CH-Low, 1 RB



LTE Band 13 64QAM 5MHz CH-High, 1 RB

