RF TEST REPORT

Applicant	Xiaomi Communications Co., Ltd.
FCC ID	2AFZZNC4L
Product	Mobile Phone
Brand	Redmi
Model	2212ARNC4L
Report No.	R2209A0813-R4
Issue Date	November 17, 2022

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2021)/ FCC CFR 47 Part 90S (2021)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Prepared by: Xu Ying

Approved by: Xu Kai

TA Technology (Shanghai) Co., Ltd.

Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China

TEL: +86-021-50791141/2/3

FAX: +86-021-50791141/2/3-8000

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Summary of measurement results

No.	Test Case	Clause in FCC rules	Verdict
1	RF Power Output and Effective Radiated Power	2.1046/90.635(b)	PASS
2	Occupied Bandwidth	2.1049/ 90.209	PASS
3	Emission Masks	2.1051 / 90.691	PASS
4	Peak-to-Average Power Ratio	KDB 971168 D01(5.7)	PASS
5	Frequency Stability	2.1055 / 90.213	PASS
6	Spurious Emissions at Antenna Terminals	2.1051 / 90.691	PASS
7	Radiated Spurious Emission	2.1053 /90.691	PASS

Date of Testing: October 11, 2022 ~ October 24, 2022
Date of Sample Received: October 8, 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.

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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 electromagnetic emissions measurements.

A2LA (Certificate Number: 3857.01)

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

1.3. Testing Location

Company:	TA Technology (Shanghai) Co., Ltd.
Address:	Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City:	Shanghai
Post code:	201201
Country:	P. R. China
Contact:	Xu Kai
Telephone:	+86-021-50791141/2/3
Fax:	+86-021-50791141/2/3-8000
Website:	http://www.ta-shanghai.com
E-mail:	xukai@ta-shanghai.com

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2. General Description of Equipment under Test

2.3. Applicant and Manufacturer Information

Applicant	Xiaomi Communications Co., Ltd.
Applicant address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer	Xiaomi Communications Co., Ltd.
Manufacturer address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

2.4. General Information

EUT Description			
Model	2212ARNC4L		
IMEI	IMEI 1: 861591060034168 IMEI 2: 861591060034176		
Hardware Version	P1.1		
Software Version	MIUI 13		
Antenna Type	PIFA Antenna		
Antenna Gain	Band	Low Antenna	Upper Antenna
	LTE Band 26	-3.6 dBi	-2.9 dBi
Test Mode(s)	LTE Band 26;		
Test Modulation	QPSK, 16QAM, 64QAM;		
LTE Category	5		
Maximum E.R.P.	LTE Band 26:	18.40 dBm	
Rated Power Supply Voltage	3.85V		
Operating Voltage	Minimum: 3.65V Maximum: 4.20V		
Operating Temperature	Lowest: 0°C Highest: +40°C		
Testing Temperature	Lowest: -30°C Highest: +50°C		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	LTE Band 26	814 ~ 824	859 ~ 869
Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant. 2. Low antenna and Upper antenna can't transmit simultaneously.			

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3. Applied Standards

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

Test standards:
FCC CFR 47 Part 90S (2021)

FCC CFR47 Part 2 (2021)

Reference standard:
ANSI C63.26-2015

KDB 971168 D01 Power Meas License Digital Systems v03r01

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4. Test Configuration

There is more than one SIM card slot, each one should be applied throughout the compliance test re spectively, 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, vertical polarization) and the worst case was recorded.

All mode and data rates and positions were investigated.
The following testing in LTE is set based on the maximum RF Output Power.

Test modes are chosen as the worst case configuration below for LTE Band 26

Test items	Bandwidth (MHz)				Modulation		RB			Test Channel		
	1.4	3	5	10	QPSK	16QAM/ 64QAM	1	50%	100%	L	M	H
RF Power Output and Effective Radiated Power	O	O	O	O	O	O	O	O	O	O	O	O
Occupied Bandwidth	O	O	O	O	O	O	-	-	O	O	O	O
Emission Mask	O	O	O	O	O	O	O	-	O	O	-	O
Peak-to-Average Power Ratio	O	O	O	O	O	O	-	-	O	O	O	O
Frequency Stability	O	O	O	O	O	O	O	-	-	-	O	-
Spurious Emissions at Antenna Terminals	O	O	O	O	O	-	O	-	-	O	O	O
Radiated Spurious Emission	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.											

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5. Test Case

5.1. RF Power Output and Effective Radiated Power

Ambient condition

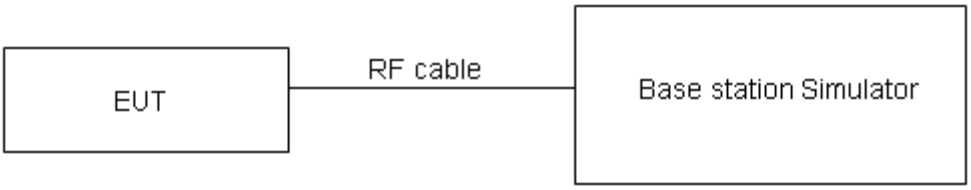
Temperature	Relative humidity
21°C ~25°C	40%~60%

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:
EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)
where:dBd refers to gain relative to an ideal dipole.
EIRP (dBm) = ERP (dBm) + 2.15 (dB.)

Test Setup



Limits

Part 90.635 (b) the maximum output power of the transmitter for mobile stations is 100 watts.

Rule Part 90.635(b) specifies that “The maximum output power of the transmitter for mobile stations is 100 watts”.

Limit	≤ 100 W (50 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.

Test Results

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

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5.2. Occupied Bandwidth

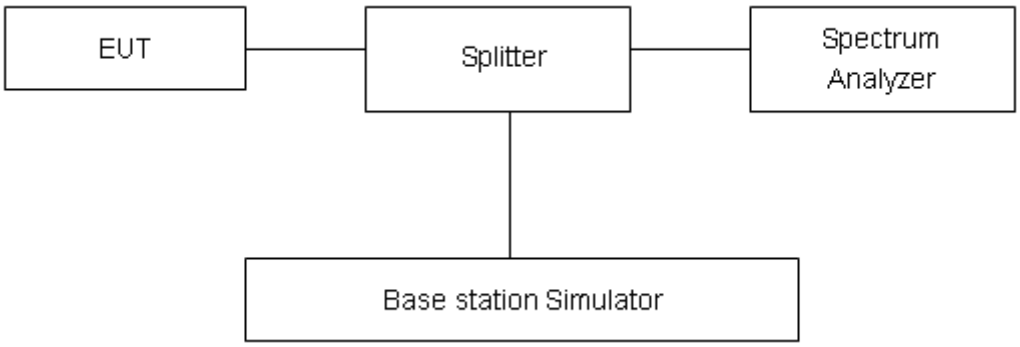
Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

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 ≥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.
Part 90.209 (a) Each authorization issued to a station licensed under this part will show an emission designator representing the class of emission authorized. The designator will be prefixed by a specified necessary bandwidth. This number does not necessarily indicate the bandwidth occupied by the emission at any instant. In those cases where part 2.202 of this chapter does not provide a formula for the computation of necessary bandwidth, the occupied bandwidth, as defined in part 2 of this chapter, may be used in lieu of the necessary bandwidth.

Measurement Uncertainty

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

Test Results

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

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5.3. Emission Mask

Ambient condition

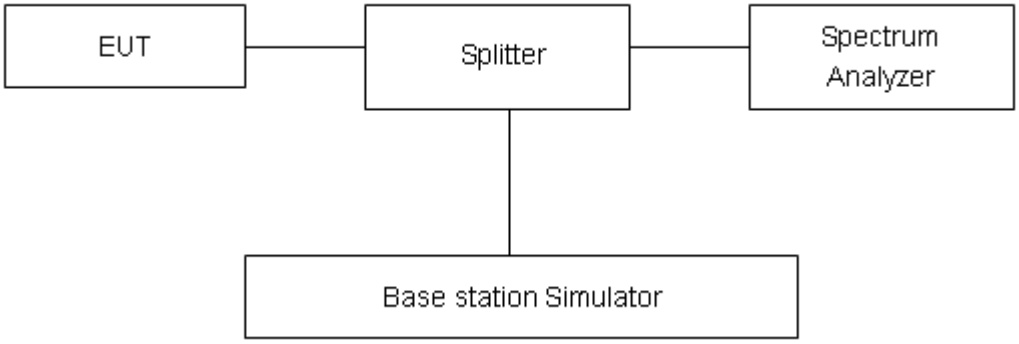
Temperature	Relative humidity
21°C ~25°C	40%~60%

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 average detector is used.
For Section 90.691(a) compliance testing, use RBW = 300 Hz for offsets less than 37.5 kHz from a channel edge; RBW = 100 kHz for offsets greater than 37.5 kHz is allowed.

Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

Rule Part 90.691(a) specifies that " For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 $Log_{10}(f/6.1)$ decibels or 50 + 10 $Log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz."

Measurement Uncertainty

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

Test Results

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

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5.4. Peak-to-Average Power Ratio (PAPR)

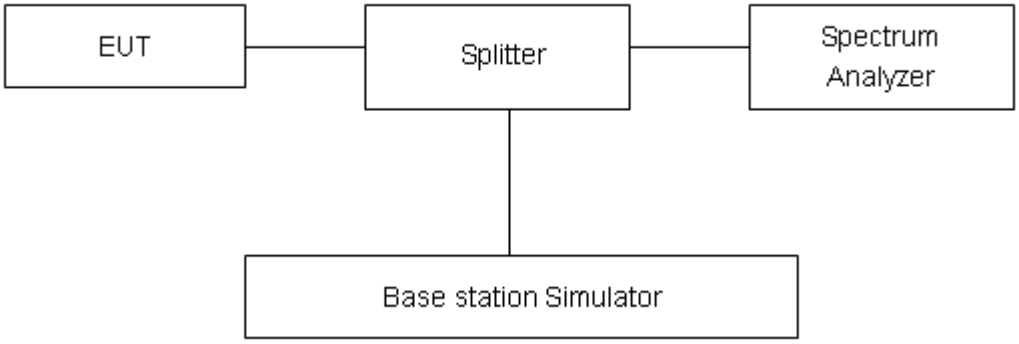
Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

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

In measuring transmissions in this band using an average power technique, the peakto-average ratio (PAR) of the transmission may not exceed 13 dB in 24.232(d).

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.

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5.5. Frequency Stability

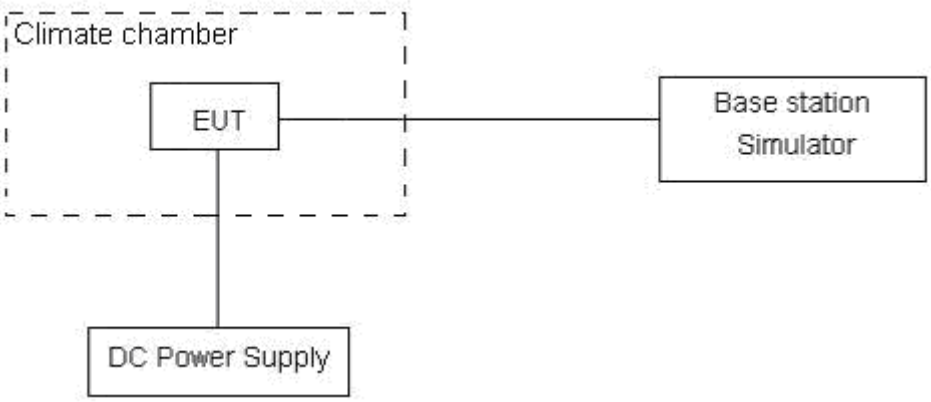
Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Method of Measurement

1. Frequency Stability (Temperature Variation)
   The temperature inside the climate chamber is varied from -30°C to +50°C in 10°C step size,
   (1) With all power removed, the temperature was decreased to 0°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 -30°C to +50°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.
2. 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 3.65 V and 4.2 V, with a nominal voltage of 3.85V.

Test setup



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Limits

According to the Sec. 90.213.(a) Unless noted elsewhere, transmitters used in the services governed by this part must have a minimum frequency stability as specified in the following table.
Minimum Frequency Stability
[Parts per million (ppm)]

Frequency range (MHz)	Fixed and base stations	Mobile stations	
		Over 2 watts output power	2 watts or less output power
814 ~ 824	1.5	2.5	2.5

Measurement Uncertainty

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

Test Results

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

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5.6. Spurious Emissions at Antenna Terminals

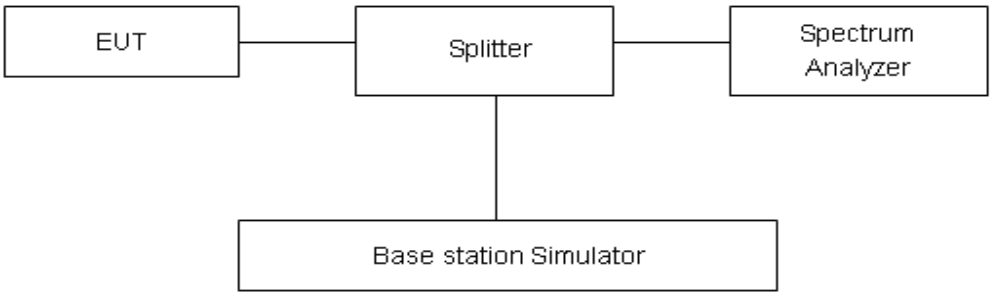
Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

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 30MHz to the 10th harmonic of the carrier. The peak detector is used.
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)
Sweep is set to ATUO.

Test setup



Limits

Rule Part 90.691 specifies that “The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.”

Limit	-13 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-10GHz	1.407 dB

Test Results

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

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5.7. Radiated Spurious Emission

Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Method of Measurement

1. The testing follows FCC KDB 971168 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, 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:
Power(EIRP)=PMea- PAg - Pcl + Ga
The measurement results are amend as described below:
Power(EIRP)=PMea- Pcl + Ga
8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP

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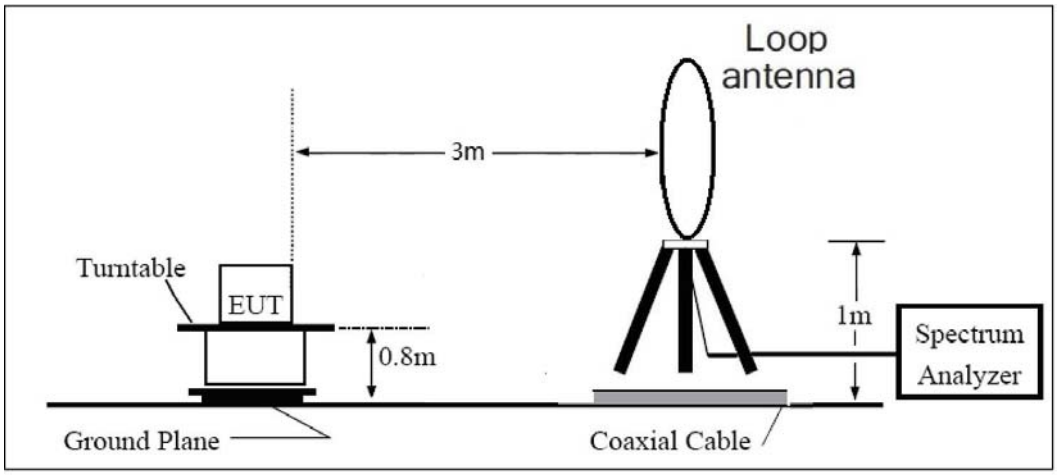
= EIRP-2.15dBi.

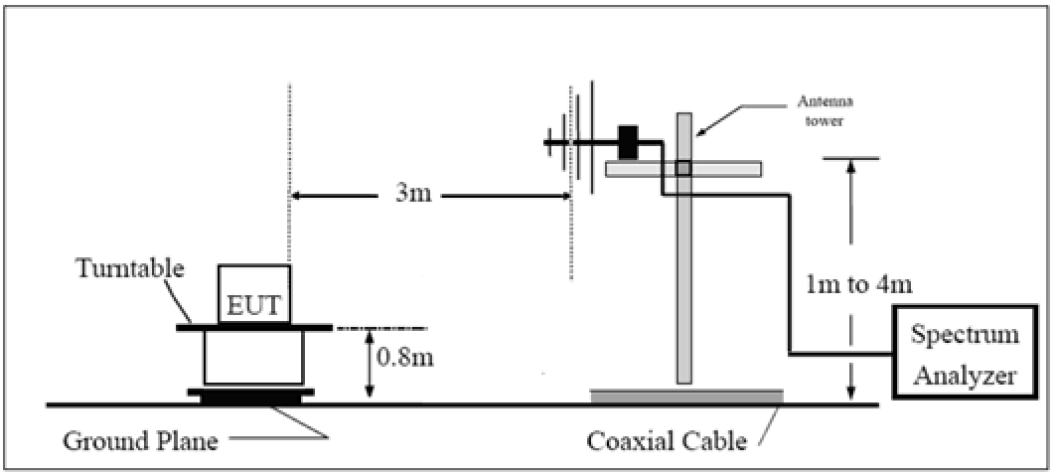
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

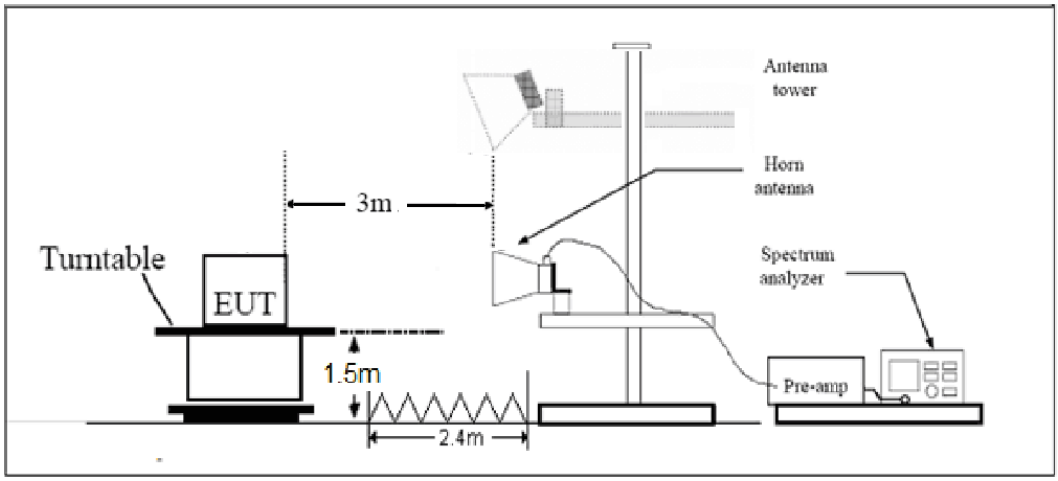
9KHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

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Limits

Rule Part 90.691 specifies that “The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.”

Limit	-13 dBm

Measurement Uncertainty

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

Test Results

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

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6. Test Results

6.1. RF Power Output and Effective Radiated Power

LTE Band 26 Low Antenna						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	ERP(dBm)
1.4	26697	1	#0	QPSK	23.75	18.00
1.4	26697	1	#Mid	QPSK	23.97	18.22
1.4	26697	1	#Max	QPSK	23.75	18.00
1.4	26697	3	#0	QPSK	23.75	18.00
1.4	26697	3	#Mid	QPSK	23.76	18.01
1.4	26697	3	#Max	QPSK	23.76	18.01
1.4	26697	6	#0	QPSK	22.75	17.00
1.4	26697	1	#0	16QAM	22.71	16.96
1.4	26697	1	#Mid	16QAM	22.96	17.21
1.4	26697	1	#Max	16QAM	22.72	16.97
1.4	26697	3	#0	16QAM	22.8	17.05
1.4	26697	3	#Mid	16QAM	22.85	17.10
1.4	26697	3	#Max	16QAM	22.91	17.16
1.4	26697	6	#0	16QAM	21.74	15.99
1.4	26740	1	#0	QPSK	23.62	17.87
1.4	26740	1	#Mid	QPSK	23.84	18.09
1.4	26740	1	#Max	QPSK	23.66	17.91
1.4	26740	3	#0	QPSK	23.7	17.95
1.4	26740	3	#Mid	QPSK	23.71	17.96
1.4	26740	3	#Max	QPSK	23.68	17.93
1.4	26740	6	#0	QPSK	22.75	17.00
1.4	26740	1	#0	16QAM	22.84	17.09
1.4	26740	1	#Mid	16QAM	23.04	17.29
1.4	26740	1	#Max	16QAM	22.8	17.05
1.4	26740	3	#0	16QAM	22.71	16.96
1.4	26740	3	#Mid	16QAM	22.71	16.96
1.4	26740	3	#Max	16QAM	22.72	16.97
1.4	26740	6	#0	16QAM	21.7	15.95
1.4	26783	1	#0	QPSK	23.72	17.97
1.4	26783	1	#Mid	QPSK	23.89	18.14
1.4	26783	1	#Max	QPSK	23.74	17.99
1.4	26783	3	#0	QPSK	23.76	18.01
1.4	26783	3	#Mid	QPSK	23.79	18.04
1.4	26783	3	#Max	QPSK	23.76	18.01
1.4	26783	6	#0	QPSK	22.77	17.02
1.4	26783	1	#0	16QAM	22.57	16.82
1.4	26783	1	#Mid	16QAM	22.75	17.00

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1.4	26783	1	#Max	16QAM	22.62	16.87
1.4	26783	3	#0	16QAM	22.7	16.95
1.4	26783	3	#Mid	16QAM	22.71	16.96
1.4	26783	3	#Max	16QAM	22.69	16.94
1.4	26783	6	#0	16QAM	21.74	15.99
3	26705	1	#0	QPSK	23.71	17.96
3	26705	1	#Mid	QPSK	23.7	17.95
3	26705	1	#Max	QPSK	23.68	17.93
3	26705	8	#0	QPSK	22.72	16.97
3	26705	8	#Mid	QPSK	22.71	16.96
3	26705	8	#Max	QPSK	22.73	16.98
3	26705	15	#0	QPSK	22.69	16.94
3	26705	1	#0	16QAM	22.97	17.22
3	26705	1	#Mid	16QAM	22.96	17.21
3	26705	1	#Max	16QAM	22.92	17.17
3	26705	8	#0	16QAM	21.71	15.96
3	26705	8	#Mid	16QAM	21.71	15.96
3	26705	8	#Max	16QAM	21.73	15.98
3	26705	15	#0	16QAM	21.68	15.93
3	26740	1	#0	QPSK	23.69	17.94
3	26740	1	#Mid	QPSK	23.68	17.93
3	26740	1	#Max	QPSK	23.72	17.97
3	26740	8	#0	QPSK	22.73	16.98
3	26740	8	#Mid	QPSK	22.72	16.97
3	26740	8	#Max	QPSK	22.74	16.99
3	26740	15	#0	QPSK	22.69	16.94
3	26740	1	#0	16QAM	22.91	17.16
3	26740	1	#Mid	16QAM	22.86	17.11
3	26740	1	#Max	16QAM	22.89	17.14
3	26740	8	#0	16QAM	21.71	15.96
3	26740	8	#Mid	16QAM	21.71	15.96
3	26740	8	#Max	16QAM	21.69	15.94
3	26740	15	#0	16QAM	21.59	15.84
3	26775	1	#0	QPSK	23.75	18.00
3	26775	1	#Mid	QPSK	23.81	18.06
3	26775	1	#Max	QPSK	23.78	18.03
3	26775	8	#0	QPSK	22.71	16.96
3	26775	8	#Mid	QPSK	22.73	16.98
3	26775	8	#Max	QPSK	22.73	16.98
3	26775	15	#0	QPSK	22.69	16.94
3	26775	1	#0	16QAM	22.61	16.86
3	26775	1	#Mid	16QAM	22.63	16.88
3	26775	1	#Max	16QAM	22.59	16.84

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3	26775	8	#0	16QAM	21.73	15.98
3	26775	8	#Mid	16QAM	21.72	15.97
3	26775	8	#Max	16QAM	21.73	15.98
3	26775	15	#0	16QAM	21.66	15.91
5	26715	1	#0	QPSK	23.65	17.90
5	26715	1	#Mid	QPSK	23.74	17.99
5	26715	1	#Max	QPSK	23.61	17.86
5	26715	12	#0	QPSK	22.68	16.93
5	26715	12	#Mid	QPSK	22.69	16.94
5	26715	12	#Max	QPSK	22.66	16.91
5	26715	25	#0	QPSK	22.69	16.94
5	26715	1	#0	16QAM	22.9	17.15
5	26715	1	#Mid	16QAM	22.98	17.23
5	26715	1	#Max	16QAM	22.91	17.16
5	26715	12	#0	16QAM	21.66	15.91
5	26715	12	#Mid	16QAM	21.65	15.90
5	26715	12	#Max	16QAM	21.62	15.87
5	26715	25	#0	16QAM	21.72	15.97
5	26740	1	#0	QPSK	23.62	17.87
5	26740	1	#Mid	QPSK	23.72	17.97
5	26740	1	#Max	QPSK	23.64	17.89
5	26740	12	#0	QPSK	22.71	16.96
5	26740	12	#Mid	QPSK	22.73	16.98
5	26740	12	#Max	QPSK	22.69	16.94
5	26740	25	#0	QPSK	22.74	16.99
5	26740	1	#0	16QAM	22.81	17.06
5	26740	1	#Mid	16QAM	22.92	17.17
5	26740	1	#Max	16QAM	22.82	17.07
5	26740	12	#0	16QAM	21.62	15.87
5	26740	12	#Mid	16QAM	21.66	15.91
5	26740	12	#Max	16QAM	21.63	15.88
5	26740	25	#0	16QAM	21.69	15.94
5	26765	1	#0	QPSK	23.57	17.82
5	26765	1	#Mid	QPSK	23.7	17.95
5	26765	1	#Max	QPSK	23.57	17.82
5	26765	12	#0	QPSK	22.72	16.97
5	26765	12	#Mid	QPSK	22.7	16.95
5	26765	12	#Max	QPSK	22.68	16.93
5	26765	25	#0	QPSK	22.73	16.98
5	26765	1	#0	16QAM	22.86	17.11
5	26765	1	#Mid	16QAM	23.02	17.27
5	26765	1	#Max	16QAM	22.9	17.15
5	26765	12	#0	16QAM	21.72	15.97

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5	26765	12	#Mid	16QAM	21.68	15.93
5	26765	12	#Max	16QAM	21.7	15.95
5	26765	25	#0	16QAM	21.72	15.97
10	26740	1	#0	QPSK	23.71	17.96
10	26740	1	#Mid	QPSK	23.81	18.06
10	26740	1	#Max	QPSK	23.69	17.94
10	26740	25	#0	QPSK	22.77	17.02
10	26740	25	#Mid	QPSK	22.76	17.01
10	26740	25	#Max	QPSK	22.73	16.98
10	26740	50	#0	QPSK	22.74	16.99
10	26740	1	#0	16QAM	22.94	17.19
10	26740	1	#Mid	16QAM	23.07	17.32
10	26740	1	#Max	16QAM	22.93	17.18
10	26740	25	#0	16QAM	21.82	16.07
10	26740	25	#Mid	16QAM	21.82	16.07
10	26740	25	#Max	16QAM	21.75	16.00
10	26740	50	#0	16QAM	21.72	15.97
1.4	26697	1	#0	64QAM	21.87	16.12
1.4	26697	1	#Mid	64QAM	22.08	16.33
1.4	26697	1	#Max	64QAM	21.85	16.10
1.4	26697	3	#0	64QAM	22.02	16.27
1.4	26697	3	#Mid	64QAM	21.99	16.24
1.4	26697	3	#Max	64QAM	22.06	16.31
1.4	26697	6	#0	64QAM	20.98	15.23
1.4	26740	1	#0	64QAM	21.91	16.16
1.4	26740	1	#Mid	64QAM	22.14	16.39
1.4	26740	1	#Max	64QAM	21.94	16.19
1.4	26740	3	#0	64QAM	21.82	16.07
1.4	26740	3	#Mid	64QAM	21.8	16.05
1.4	26740	3	#Max	64QAM	21.83	16.08
1.4	26740	6	#0	64QAM	20.94	15.19
1.4	26783	1	#0	64QAM	21.75	16.00
1.4	26783	1	#Mid	64QAM	21.93	16.18
1.4	26783	1	#Max	64QAM	21.72	15.97
1.4	26783	3	#0	64QAM	21.82	16.07
1.4	26783	3	#Mid	64QAM	21.8	16.05
1.4	26783	3	#Max	64QAM	21.8	16.05
1.4	26783	6	#0	64QAM	20.98	15.23
3	26705	1	#0	64QAM	22.1	16.35
3	26705	1	#Mid	64QAM	21.95	16.20
3	26705	1	#Max	64QAM	22.02	16.27
3	26705	8	#0	64QAM	20.88	15.13
3	26705	8	#Mid	64QAM	20.88	15.13

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3	26705	8	#Max	64QAM	20.87	15.12
3	26705	15	#0	64QAM	20.88	15.13
3	26740	1	#0	64QAM	21.71	15.96
3	26740	1	#Mid	64QAM	21.71	15.96
3	26740	1	#Max	64QAM	21.74	15.99
3	26740	8	#0	64QAM	20.86	15.11
3	26740	8	#Mid	64QAM	20.86	15.11
3	26740	8	#Max	64QAM	20.86	15.11
3	26740	15	#0	64QAM	20.97	15.22
3	26775	1	#0	64QAM	22.09	16.34
3	26775	1	#Mid	64QAM	22.06	16.31
3	26775	1	#Max	64QAM	22.12	16.37
3	26775	8	#0	64QAM	20.86	15.11
3	26775	8	#Mid	64QAM	20.87	15.12
3	26775	8	#Max	64QAM	20.86	15.11
3	26775	15	#0	64QAM	20.94	15.19
5	26715	1	#0	64QAM	22.07	16.32
5	26715	1	#Mid	64QAM	22.2	16.45
5	26715	1	#Max	64QAM	22.09	16.34
5	26715	12	#0	64QAM	20.84	15.09
5	26715	12	#Mid	64QAM	20.85	15.10
5	26715	12	#Max	64QAM	20.81	15.06
5	26715	25	#0	64QAM	20.99	15.24
5	26740	1	#0	64QAM	21.92	16.17
5	26740	1	#Mid	64QAM	22.02	16.27
5	26740	1	#Max	64QAM	21.94	16.19
5	26740	12	#0	64QAM	20.74	14.99
5	26740	12	#Mid	64QAM	20.76	15.01
5	26740	12	#Max	64QAM	20.75	15.00
5	26740	25	#0	64QAM	20.97	15.22
5	26765	1	#0	64QAM	21.97	16.22
5	26765	1	#Mid	64QAM	22.09	16.34
5	26765	1	#Max	64QAM	22	16.25
5	26765	12	#0	64QAM	20.84	15.09
5	26765	12	#Mid	64QAM	20.85	15.10
5	26765	12	#Max	64QAM	20.8	15.05
5	26765	25	#0	64QAM	20.98	15.23
10	26740	1	#0	64QAM	22.1	16.35
10	26740	1	#Mid	64QAM	22.19	16.44
10	26740	1	#Max	64QAM	22.08	16.33
10	26740	25	#0	64QAM	20.97	15.22
10	26740	25	#Mid	64QAM	20.94	15.19
10	26740	25	#Max	64QAM	20.94	15.19

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10	26740	50	#0	64QAM	21.01	15.26

LTE Band 26 Upper Antenna						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	ERP(dBm)
1.4	26697	1	#0	QPSK	23.13	18.08
1.4	26697	1	#Mid	QPSK	23.45	18.40
1.4	26697	1	#Max	QPSK	23.13	18.08
1.4	26697	3	#0	QPSK	23.21	18.16
1.4	26697	3	#Mid	QPSK	23.18	18.13
1.4	26697	3	#Max	QPSK	23.16	18.11
1.4	26697	6	#0	QPSK	22.16	17.11
1.4	26697	1	#0	16QAM	22.04	16.99
1.4	26697	1	#Mid	16QAM	22.13	17.08
1.4	26697	1	#Max	16QAM	22.01	16.96
1.4	26697	3	#0	16QAM	22.11	17.06
1.4	26697	3	#Mid	16QAM	22.11	17.06
1.4	26697	3	#Max	16QAM	22.10	17.05
1.4	26697	6	#0	16QAM	21.17	16.12
1.4	26740	1	#0	QPSK	23.18	18.13
1.4	26740	1	#Mid	QPSK	23.33	18.28
1.4	26740	1	#Max	QPSK	23.16	18.11
1.4	26740	3	#0	QPSK	23.15	18.10
1.4	26740	3	#Mid	QPSK	23.15	18.10
1.4	26740	3	#Max	QPSK	23.14	18.09
1.4	26740	6	#0	QPSK	22.09	17.04
1.4	26740	1	#0	16QAM	22.08	17.03
1.4	26740	1	#Mid	16QAM	22.28	17.23
1.4	26740	1	#Max	16QAM	22.09	17.04
1.4	26740	3	#0	16QAM	22.23	17.18
1.4	26740	3	#Mid	16QAM	22.25	17.20
1.4	26740	3	#Max	16QAM	22.27	17.22
1.4	26740	6	#0	16QAM	21.21	16.16
1.4	26783	1	#0	QPSK	23.09	18.04
1.4	26783	1	#Mid	QPSK	23.28	18.23
1.4	26783	1	#Max	QPSK	23.09	18.04
1.4	26783	3	#0	QPSK	23.14	18.09
1.4	26783	3	#Mid	QPSK	23.11	18.06
1.4	26783	3	#Max	QPSK	23.09	18.04
1.4	26783	6	#0	QPSK	22.11	17.06
1.4	26783	1	#0	16QAM	22.21	17.16
1.4	26783	1	#Mid	16QAM	22.46	17.41
1.4	26783	1	#Max	16QAM	22.24	17.19
1.4	26783	3	#0	16QAM	22.09	17.04

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1.4	26783	3	#Mid	16QAM	22.10	17.05
1.4	26783	3	#Max	16QAM	22.14	17.09
1.4	26783	6	#0	16QAM	21.13	16.08
3	26705	1	#0	QPSK	23.20	18.15
3	26705	1	#Mid	QPSK	23.22	18.17
3	26705	1	#Max	QPSK	23.20	18.15
3	26705	8	#0	QPSK	22.14	17.09
3	26705	8	#Mid	QPSK	22.15	17.10
3	26705	8	#Max	QPSK	22.16	17.11
3	26705	15	#0	QPSK	22.09	17.04
3	26705	1	#0	16QAM	22.04	16.99
3	26705	1	#Mid	16QAM	22.04	16.99
3	26705	1	#Max	16QAM	22.00	16.95
3	26705	8	#0	16QAM	21.17	16.12
3	26705	8	#Mid	16QAM	21.17	16.12
3	26705	8	#Max	16QAM	21.21	16.16
3	26705	15	#0	16QAM	21.17	16.12
3	26740	1	#0	QPSK	23.16	18.11
3	26740	1	#Mid	QPSK	23.09	18.04
3	26740	1	#Max	QPSK	23.10	18.05
3	26740	8	#0	QPSK	22.11	17.06
3	26740	8	#Mid	QPSK	22.11	17.06
3	26740	8	#Max	QPSK	22.14	17.09
3	26740	15	#0	QPSK	22.13	17.08
3	26740	1	#0	16QAM	22.43	17.38
3	26740	1	#Mid	16QAM	22.33	17.28
3	26740	1	#Max	16QAM	22.39	17.34
3	26740	8	#0	16QAM	21.16	16.11
3	26740	8	#Mid	16QAM	21.16	16.11
3	26740	8	#Max	16QAM	21.18	16.13
3	26740	15	#0	16QAM	21.11	16.06
3	26775	1	#0	QPSK	23.14	18.09
3	26775	1	#Mid	QPSK	23.13	18.08
3	26775	1	#Max	QPSK	23.14	18.09
3	26775	8	#0	QPSK	22.10	17.05
3	26775	8	#Mid	QPSK	22.11	17.06
3	26775	8	#Max	QPSK	22.08	17.03
3	26775	15	#0	QPSK	22.04	16.99
3	26775	1	#0	16QAM	22.28	17.23
3	26775	1	#Mid	16QAM	22.25	17.20
3	26775	1	#Max	16QAM	22.22	17.17
3	26775	8	#0	16QAM	21.14	16.09
3	26775	8	#Mid	16QAM	21.16	16.11

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3	26775	8	#Max	16QAM	21.11	16.06
3	26775	15	#0	16QAM	21.03	15.98
5	26715	1	#0	QPSK	23.06	18.01
5	26715	1	#Mid	QPSK	23.18	18.13
5	26715	1	#Max	QPSK	23.04	17.99
5	26715	12	#0	QPSK	22.06	17.01
5	26715	12	#Mid	QPSK	22.05	17.00
5	26715	12	#Max	QPSK	22.14	17.09
5	26715	25	#0	QPSK	22.11	17.06
5	26715	1	#0	16QAM	22.37	17.32
5	26715	1	#Mid	16QAM	22.46	17.41
5	26715	1	#Max	16QAM	22.33	17.28
5	26715	12	#0	16QAM	21.04	15.99
5	26715	12	#Mid	16QAM	21.02	15.97
5	26715	12	#Max	16QAM	21.12	16.07
5	26715	25	#0	16QAM	21.18	16.13
5	26740	1	#0	QPSK	23.03	17.98
5	26740	1	#Mid	QPSK	23.18	18.13
5	26740	1	#Max	QPSK	22.99	17.94
5	26740	12	#0	QPSK	22.09	17.04
5	26740	12	#Mid	QPSK	22.06	17.01
5	26740	12	#Max	QPSK	22.13	17.08
5	26740	25	#0	QPSK	22.13	17.08
5	26740	1	#0	16QAM	22.18	17.13
5	26740	1	#Mid	16QAM	22.19	17.14
5	26740	1	#Max	16QAM	22.11	17.06
5	26740	12	#0	16QAM	21.02	15.97
5	26740	12	#Mid	16QAM	21.02	15.97
5	26740	12	#Max	16QAM	21.08	16.03
5	26740	25	#0	16QAM	21.17	16.12
5	26765	1	#0	QPSK	22.86	17.81
5	26765	1	#Mid	QPSK	23.01	17.96
5	26765	1	#Max	QPSK	22.72	17.67
5	26765	12	#0	QPSK	21.98	16.93
5	26765	12	#Mid	QPSK	22.09	17.04
5	26765	12	#Max	QPSK	21.95	16.90
5	26765	25	#0	QPSK	21.96	16.91
5	26765	1	#0	16QAM	22.12	17.07
5	26765	1	#Mid	16QAM	22.31	17.26
5	26765	1	#Max	16QAM	22.00	16.95
5	26765	12	#0	16QAM	21.05	16.00
5	26765	12	#Mid	16QAM	21.05	16.00
5	26765	12	#Max	16QAM	21.06	16.01

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5	26765	25	#0	16QAM	21.03	15.98
10	26740	1	#0	QPSK	23.15	18.10
10	26740	1	#Mid	QPSK	23.34	18.29
10	26740	1	#Max	QPSK	22.93	17.88
10	26740	25	#0	QPSK	21.75	16.70
10	26740	25	#Mid	QPSK	21.79	16.74
10	26740	25	#Max	QPSK	22.07	17.02
10	26740	50	#0	QPSK	21.89	16.84
10	26740	1	#0	16QAM	21.97	16.92
10	26740	1	#Mid	16QAM	22.14	17.09
10	26740	1	#Max	16QAM	21.89	16.84
10	26740	25	#0	16QAM	21.03	15.98
10	26740	25	#Mid	16QAM	21.07	16.02
10	26740	25	#Max	16QAM	21.02	15.97
10	26740	50	#0	16QAM	21.07	16.02
1.4	26697	1	#0	64QAM	21.11	16.06
1.4	26697	1	#Mid	64QAM	21.29	16.24
1.4	26697	1	#Max	64QAM	21.09	16.04
1.4	26697	3	#0	64QAM	21.24	16.19
1.4	26697	3	#Mid	64QAM	21.23	16.18
1.4	26697	3	#Max	64QAM	21.21	16.16
1.4	26697	6	#0	64QAM	20.48	15.43
1.4	26740	1	#0	64QAM	21.21	16.16
1.4	26740	1	#Mid	64QAM	21.44	16.39
1.4	26740	1	#Max	64QAM	21.21	16.16
1.4	26740	3	#0	64QAM	21.36	16.31
1.4	26740	3	#Mid	64QAM	21.36	16.31
1.4	26740	3	#Max	64QAM	21.39	16.34
1.4	26740	6	#0	64QAM	20.54	15.49
1.4	26783	1	#0	64QAM	21.32	16.27
1.4	26783	1	#Mid	64QAM	21.57	16.52
1.4	26783	1	#Max	64QAM	21.36	16.31
1.4	26783	3	#0	64QAM	21.25	16.20
1.4	26783	3	#Mid	64QAM	21.24	16.19
1.4	26783	3	#Max	64QAM	21.27	16.22
1.4	26783	6	#0	64QAM	20.45	15.40
3	26705	1	#0	64QAM	21.42	16.37
3	26705	1	#Mid	64QAM	21.45	16.40
3	26705	1	#Max	64QAM	21.36	16.31
3	26705	8	#0	64QAM	20.45	15.40
3	26705	8	#Mid	64QAM	20.45	15.40
3	26705	8	#Max	64QAM	20.50	15.45
3	26705	15	#0	64QAM	20.37	15.32

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3	26740	1	#0	64QAM	21.13	16.08
3	26740	1	#Mid	64QAM	21.16	16.11
3	26740	1	#Max	64QAM	21.14	16.09
3	26740	8	#0	64QAM	20.48	15.43
3	26740	8	#Mid	64QAM	20.46	15.41
3	26740	8	#Max	64QAM	20.45	15.40
3	26740	15	#0	64QAM	20.46	15.41
3	26775	1	#0	64QAM	21.51	16.46
3	26775	1	#Mid	64QAM	21.35	16.30
3	26775	1	#Max	64QAM	21.45	16.40
3	26775	8	#0	64QAM	20.36	15.31
3	26775	8	#Mid	64QAM	20.40	15.35
3	26775	8	#Max	64QAM	20.38	15.33
3	26775	15	#0	64QAM	20.33	15.28
5	26715	1	#0	64QAM	21.31	16.26
5	26715	1	#Mid	64QAM	21.27	16.22
5	26715	1	#Max	64QAM	20.96	15.91
5	26715	12	#0	64QAM	20.08	15.03
5	26715	12	#Mid	64QAM	20.11	15.06
5	26715	12	#Max	64QAM	20.17	15.12
5	26715	25	#0	64QAM	20.26	15.21
5	26740	1	#0	64QAM	20.88	15.83
5	26740	1	#Mid	64QAM	20.98	15.93
5	26740	1	#Max	64QAM	20.83	15.78
5	26740	12	#0	64QAM	20.12	15.07
5	26740	12	#Mid	64QAM	20.15	15.10
5	26740	12	#Max	64QAM	20.23	15.18
5	26740	25	#0	64QAM	20.25	15.20
5	26765	1	#0	64QAM	20.85	15.80
5	26765	1	#Mid	64QAM	20.99	15.94
5	26765	1	#Max	64QAM	20.85	15.80
5	26765	12	#0	64QAM	20.14	15.09
5	26765	12	#Mid	64QAM	20.18	15.13
5	26765	12	#Max	64QAM	20.20	15.15
5	26765	25	#0	64QAM	20.27	15.22
10	26740	1	#0	64QAM	21.41	16.36
10	26740	1	#Mid	64QAM	21.59	16.54
10	26740	1	#Max	64QAM	21.41	16.36
10	26740	25	#0	64QAM	20.44	15.39
10	26740	25	#Mid	64QAM	20.44	15.39
10	26740	25	#Max	64QAM	20.56	15.51
10	26740	50	#0	64QAM	20.50	15.45

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6.2. Occupied Bandwidth

LTE Band 26						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	26697	814.7	1.0979	1.2930
			26740	819	1.0917	1.2880
			26783	823.3	1.0981	1.3020
		3	26705	815.5	2.6863	2.9270
			26740	819	2.6893	2.9180
			26775	822.5	2.7022	2.9140
		5	26715	816.5	4.5086	4.8710
			26740	819	4.4919	4.8910
			26765	821.5	4.5116	4.9010
		10	26740	819	8.9835	9.6680
	16QAM	1.4	26697	814.7	1.0925	1.2880
			26740	819	1.0970	1.2920
			26783	823.3	1.0937	1.2760
		3	26705	815.5	2.6914	2.9250
			26740	819	2.6836	2.9410
			26775	822.5	2.6909	2.9210
		5	26715	816.5	4.5096	4.8580
			26740	819	4.5064	4.8900
			26765	821.5	4.5013	4.9270
		10	26740	819	8.9605	9.6430
	64QAM	1.4	26697	814.7	1.0996	1.2910
			26740	819	1.0998	1.2770
			26783	823.3	1.0900	1.2870
		3	26705	815.5	2.6823	2.9280
			26740	819	2.6906	2.9240
			26775	822.5	2.6796	2.9330
		5	26715	816.5	4.5082	4.9380
			26740	819	4.5113	4.9590
			26765	821.5	4.5012	4.9500
		10	26740	819	8.9971	9.6970

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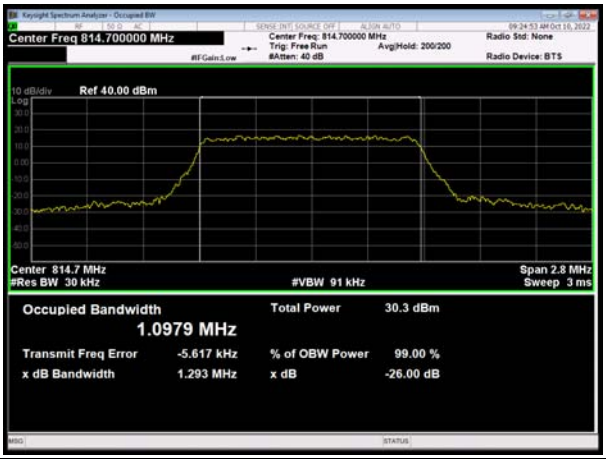
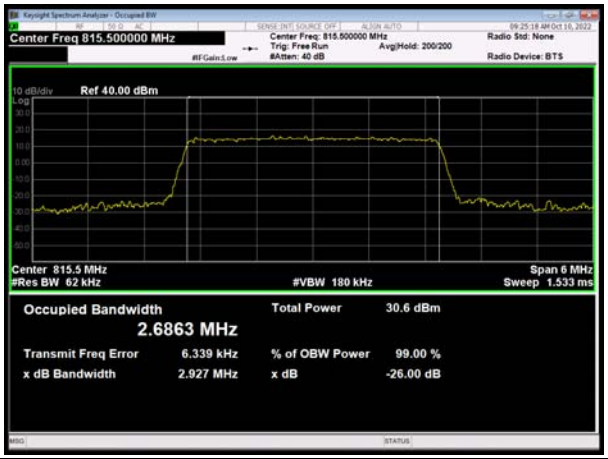
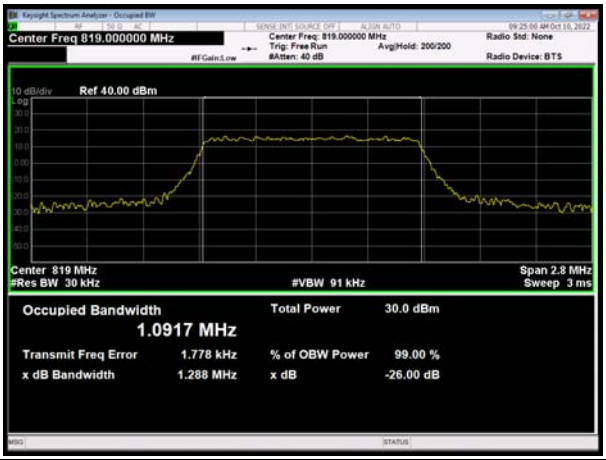
LTE Band 26 QPSK 1.4MHz CH Low



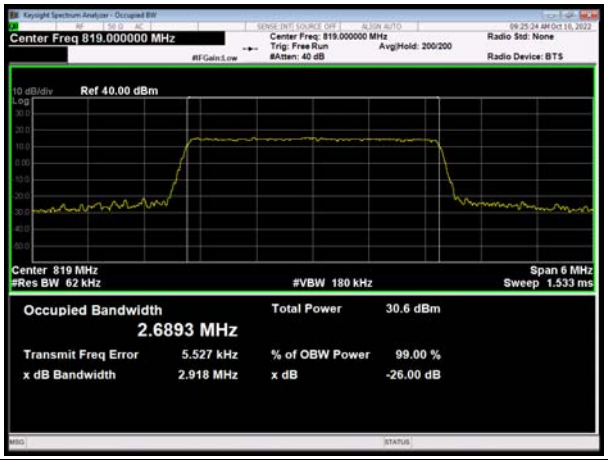
LTE Band 26 QPSK 3MHz CH Low



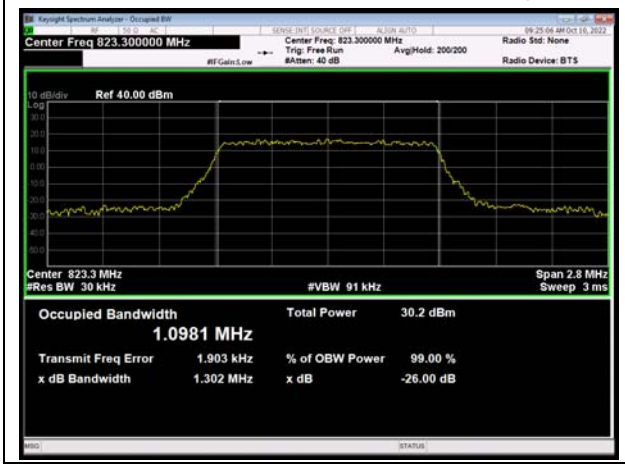
LTE Band 26 QPSK 1.4MHz CH Middle



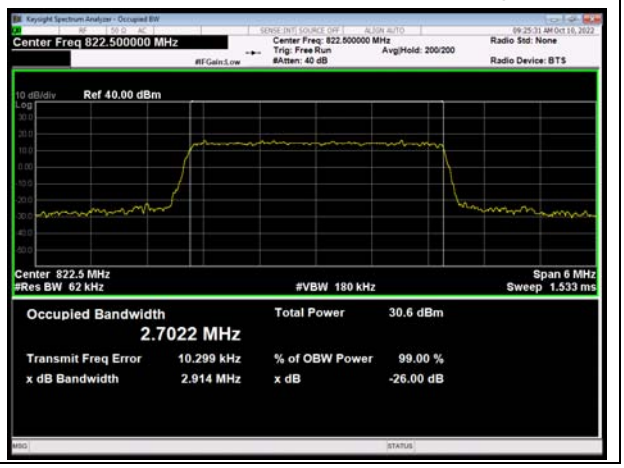
LTE Band 26 QPSK 3MHz CH Middle



LTE Band 26 QPSK 1.4MHz CH High



LTE Band 26 QPSK 3MHz CH High



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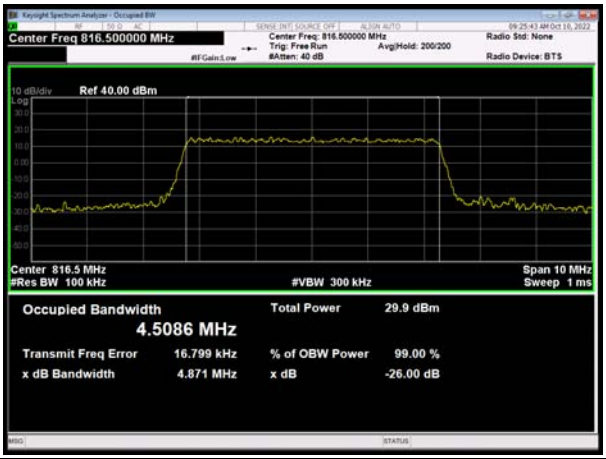
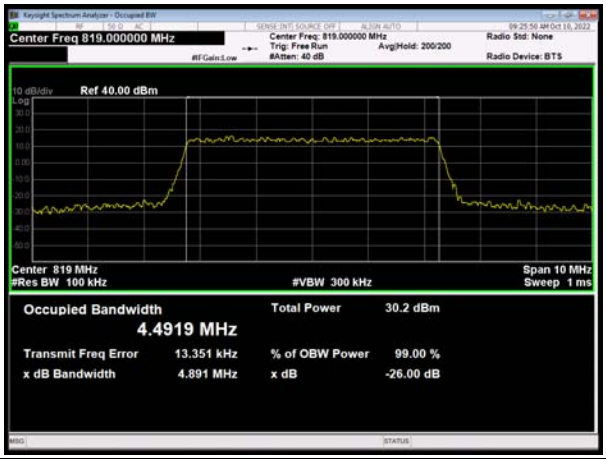
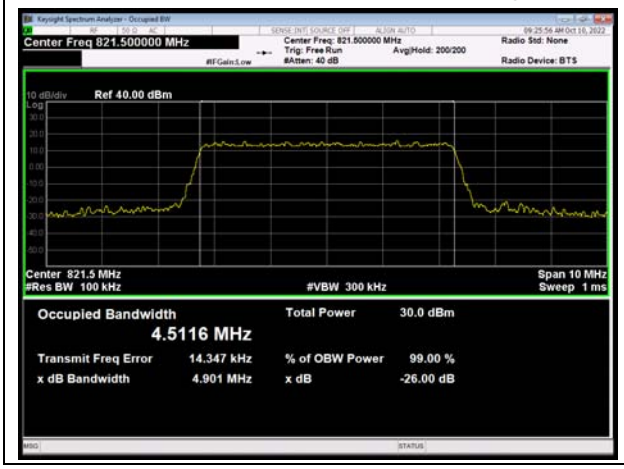
LTE Band 26 QPSK 5MHz CH Low



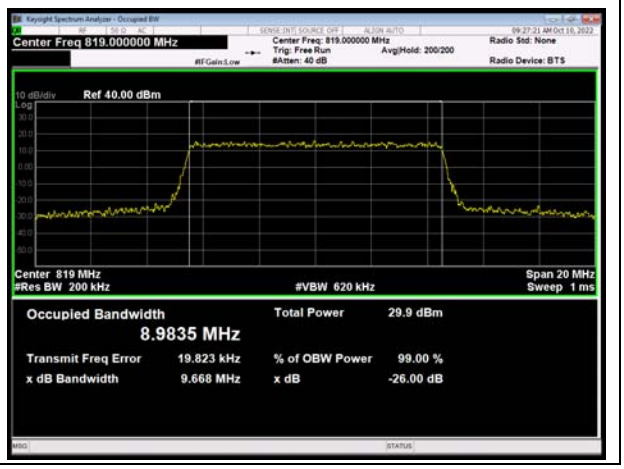
LTE Band 26 QPSK 5MHz CH Middle



LTE Band 26 QPSK 5MHz CH High



LTE Band 26 QPSK 10MHz CH Middle



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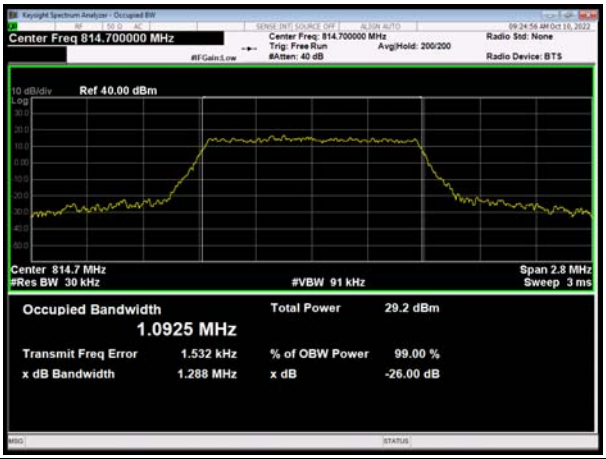
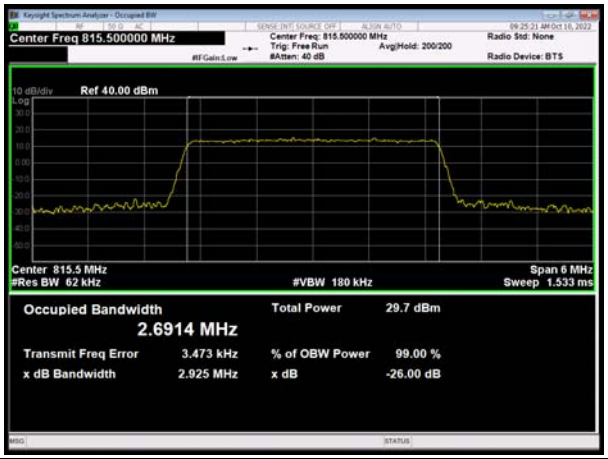
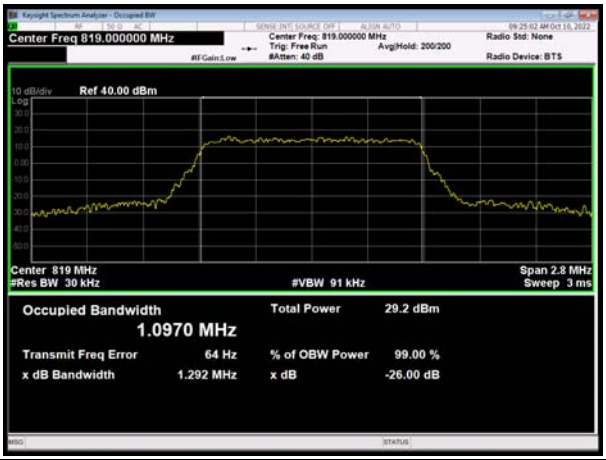
LTE Band 26 16QAM 1.4MHz CH Low



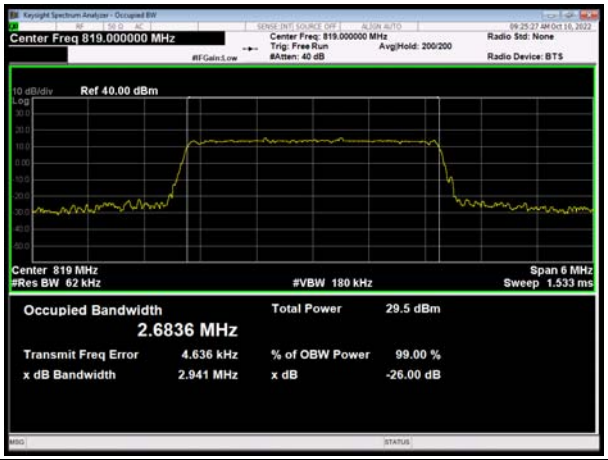
LTE Band 26 16QAM 3MHz CH Low



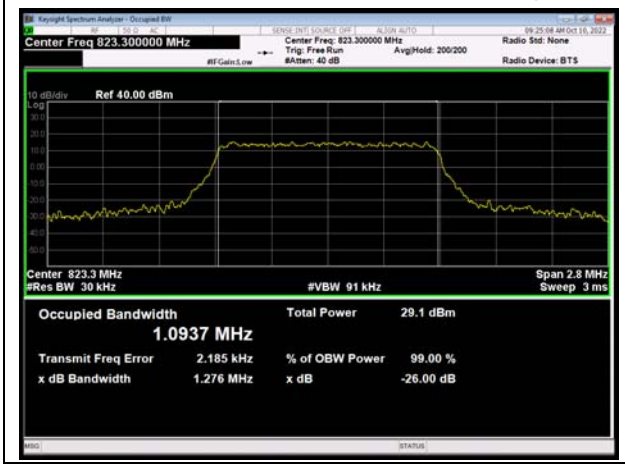
LTE Band 26 16QAM 1.4MHz CH Middle



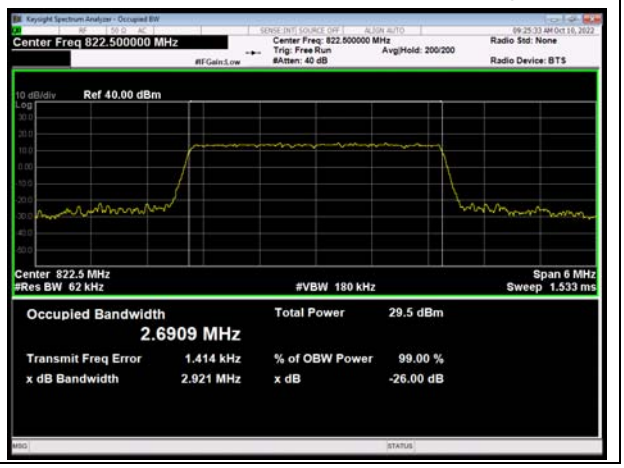
LTE Band 26 16QAM 3MHz CH Middle



LTE Band 26 16QAM 1.4MHz CH High



LTE Band 26 16QAM 3MHz CH High



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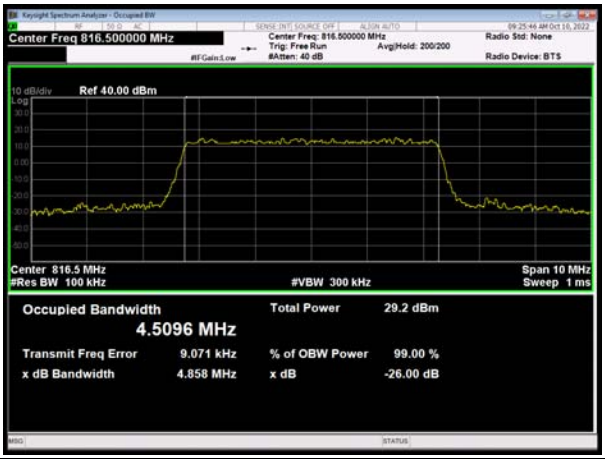
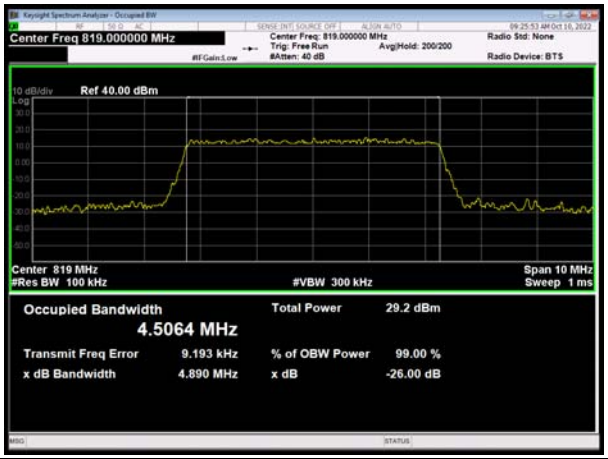
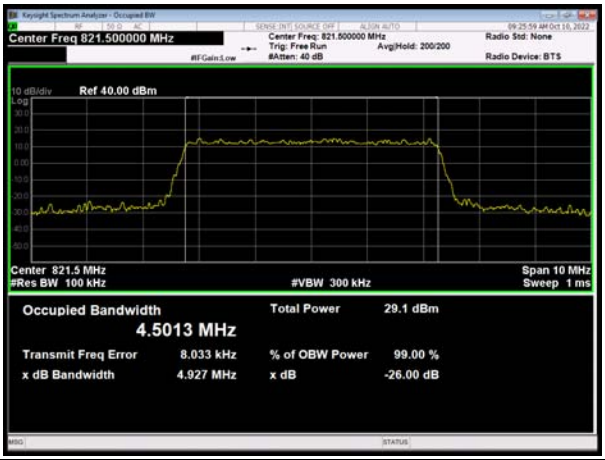
LTE Band 26 16QAM 5MHz CH Low



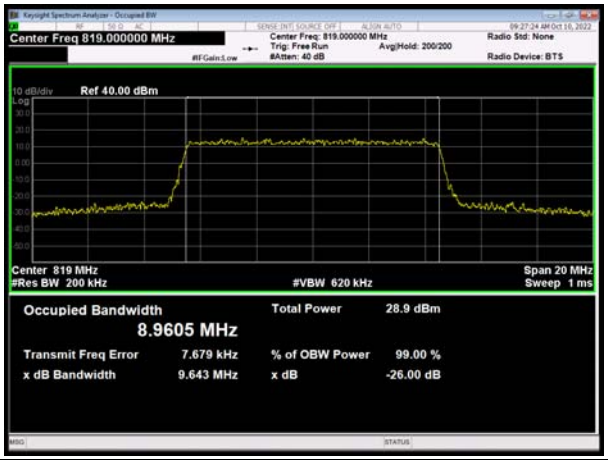
LTE Band 26 16QAM 5MHz CH Middle



LTE Band 26 16QAM 5MHz CH High



LTE Band 26 16QAM 10MHz CH Middle



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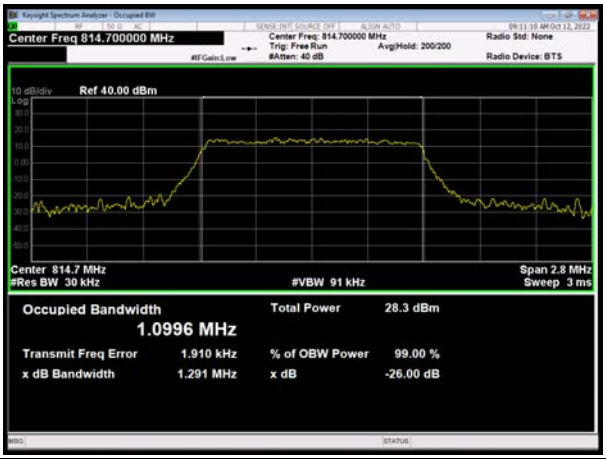
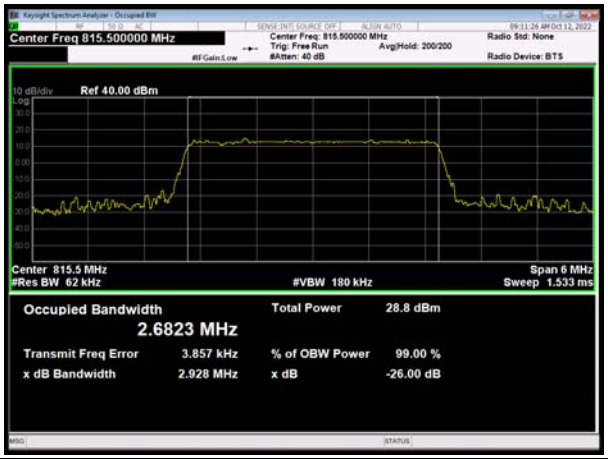
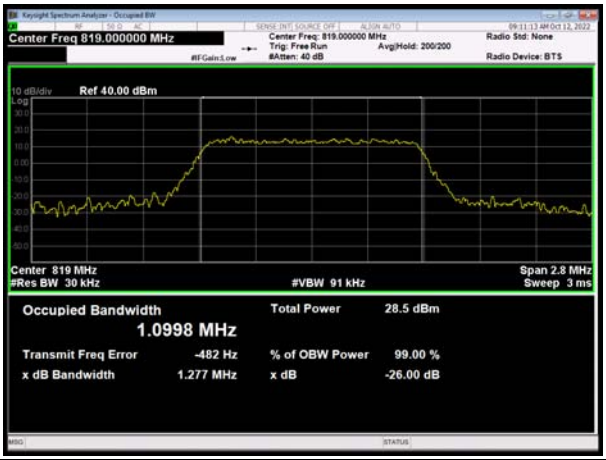
LTE Band 26 64QAM 1.4MHz CH Low



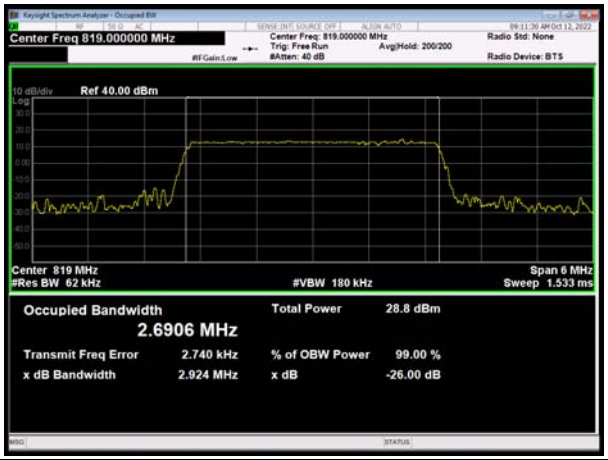
LTE Band 26 64QAM 3MHz CH Low



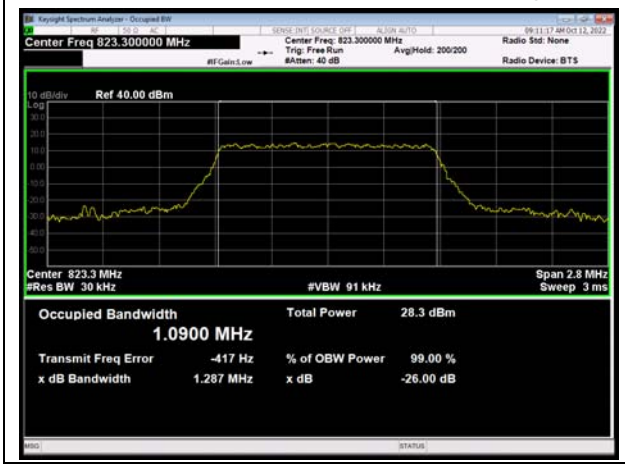
LTE Band 26 64QAM 1.4MHz CH Middle



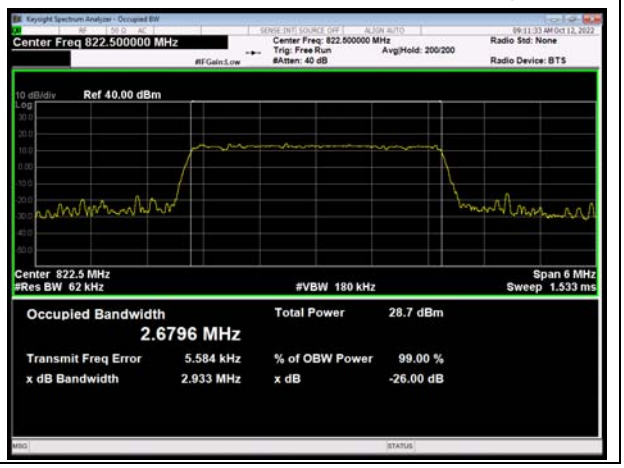
LTE Band 26 64QAM 3MHz CH Middle



LTE Band 26 64QAM 1.4MHz CH High



LTE Band 26 64QAM 3MHz CH High



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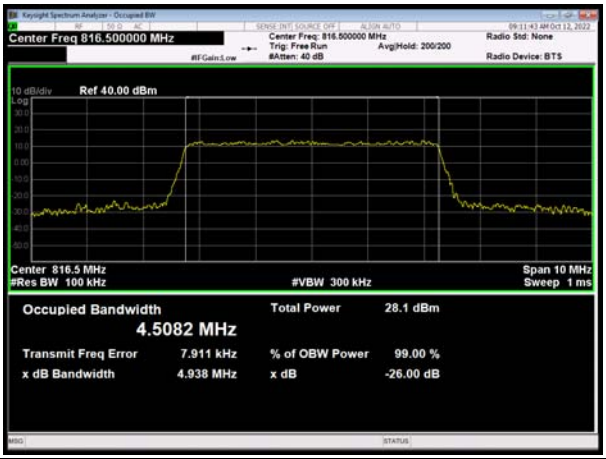
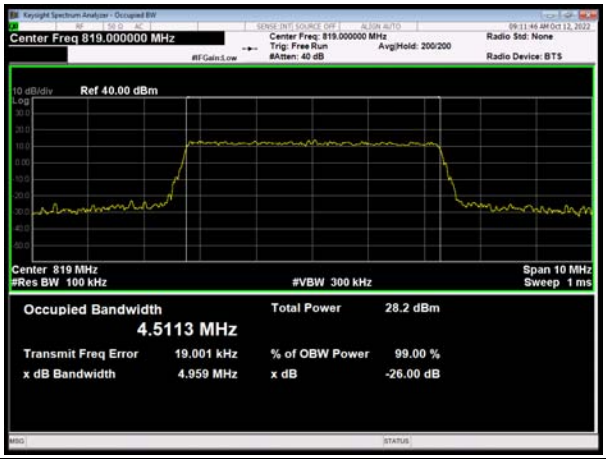
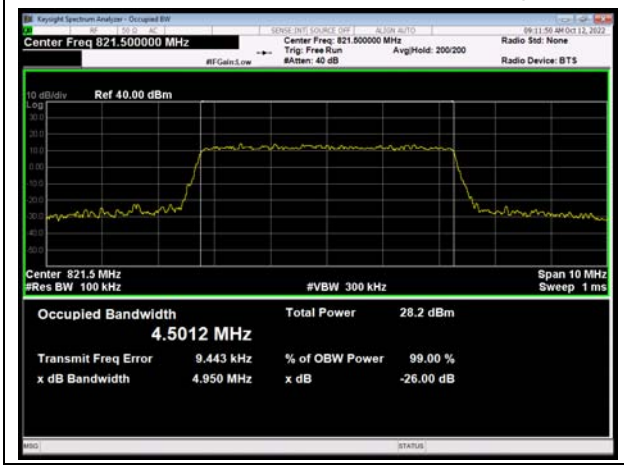
LTE Band 26 64QAM 5MHz CH Low



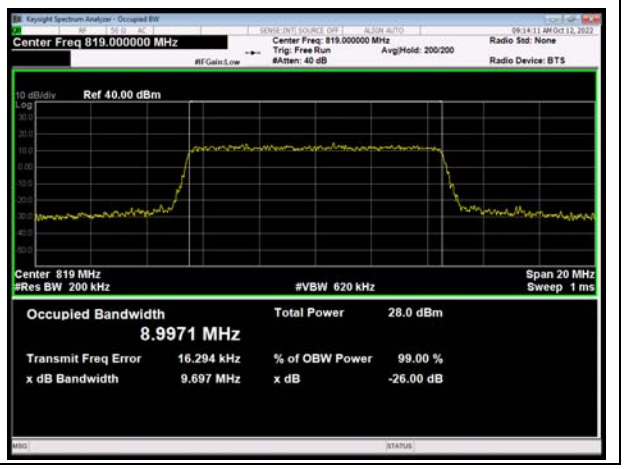
LTE Band 26 64QAM 5MHz CH Middle



LTE Band 26 64QAM 5MHz CH High



LTE Band 26 64QAM 10MHz CH Middle



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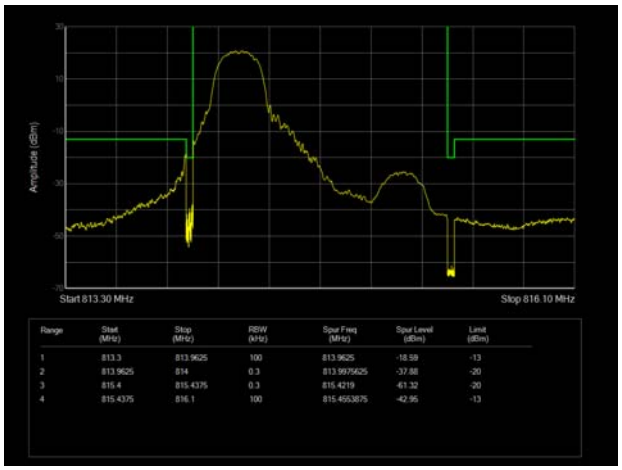
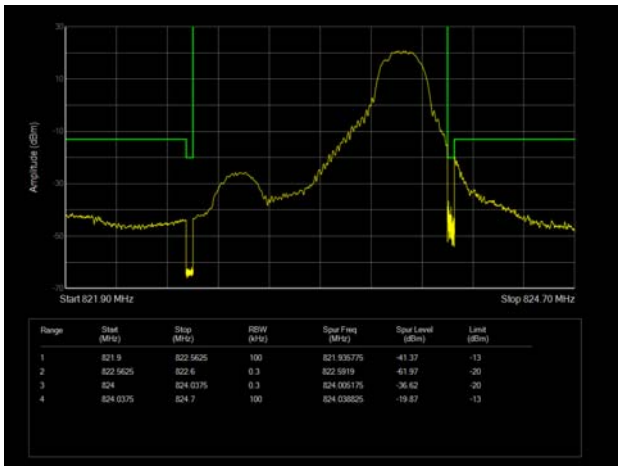
6.3. Emission Mask

LTE Band 26 QPSK 1.4MHz CH-Low 1RB



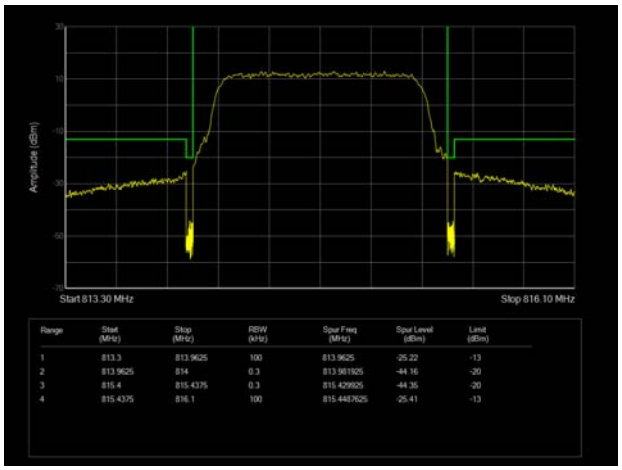
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	813.3	813.9625	100	813.9625	-18.59	-13
2	813.9625	814	0.3	813.9975625	-37.88	-20
3	815.4	815.4375	0.3	815.4219	-61.32	-20
4	815.4375	816.1	100	815.4553875	-42.95	-13

LTE Band 26 QPSK 1.4MHz CH-High 1RB



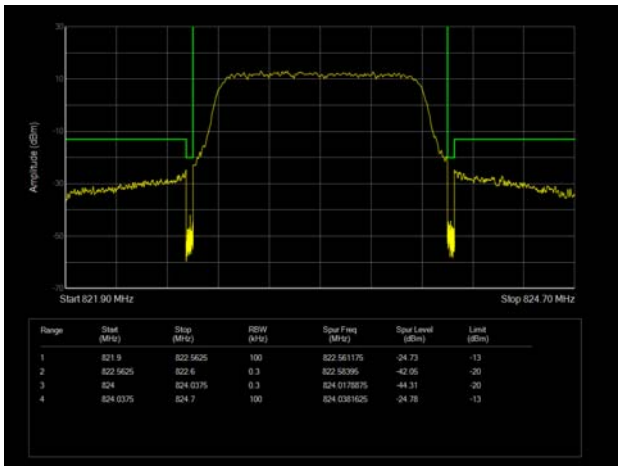
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	821.9	822.5625	100	821.935775	-41.37	-13
2	822.5625	822.6	0.3	822.5919	-61.97	-20
3	824	824.0375	0.3	824.005175	-36.62	-20
4	824.0375	824.7	100	824.038825	-19.87	-13

LTE Band 26 QPSK 1.4MHz CH-Low 100%RB



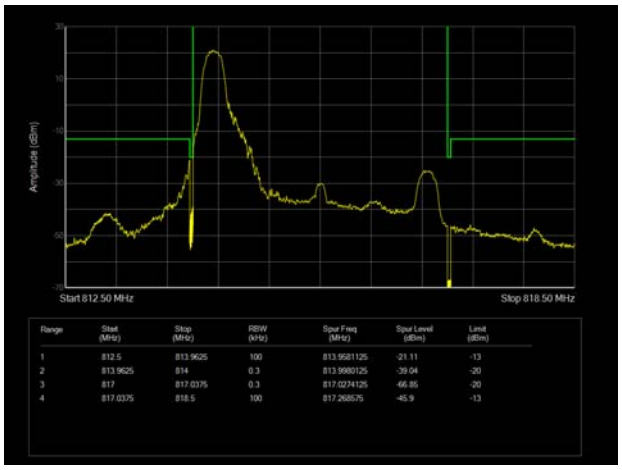
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	813.3	813.9625	100	813.9625	-25.22	-13
2	813.9625	814	0.3	813.981925	-44.16	-20
3	815.4	815.4375	0.3	815.429925	-44.35	-20
4	815.4375	816.1	100	815.4487625	-25.41	-13

LTE Band 26 QPSK 1.4MHz CH-High 100%RB



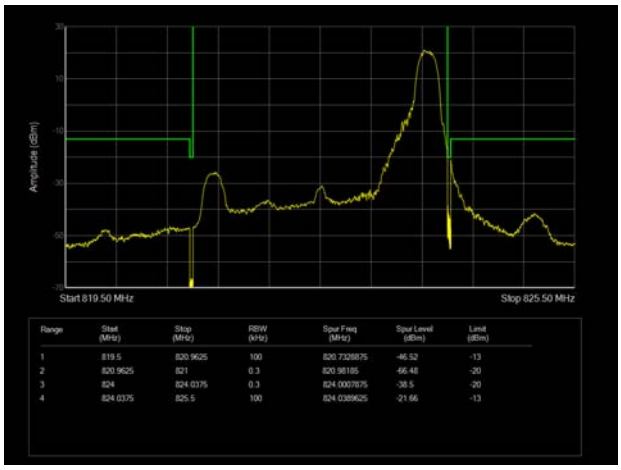
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	821.9	822.5625	100	822.561175	-24.73	-13
2	822.5625	822.6	0.3	822.58395	-42.05	-20
3	824	824.0375	0.3	824.017875	-44.31	-20
4	824.0375	824.7	100	824.0381625	-24.78	-13

LTE Band 26 QPSK 3MHz CH-Low 1RB



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	812.5	813.9625	100	813.9581125	-21.11	-13
2	813.9625	814	0.3	813.998125	-39.04	-20
3	817	817.0375	0.3	817.0274125	-66.85	-20
4	817.0375	818.5	100	817.268575	-45.9	-13

LTE Band 26 QPSK 3MHz CH-High 1RB



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	819.5	820.9625	100	820.732875	-46.52	-13
2	820.9625	821	0.3	820.98185	-66.48	-20
3	824	824.0375	0.3	824.0007875	-38.5	-20
4	824.0375	825.5	100	824.0389625	-21.66	-13

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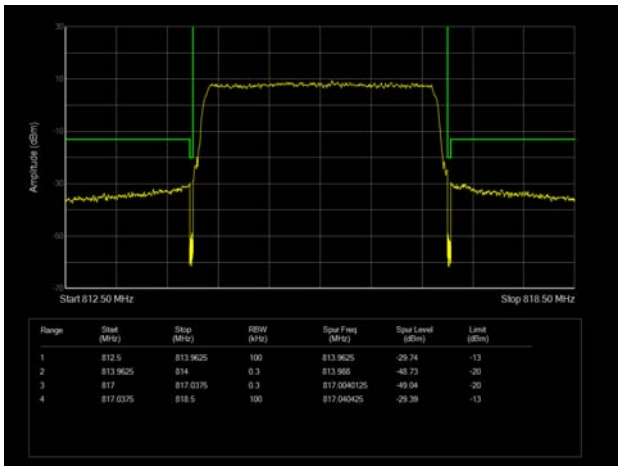
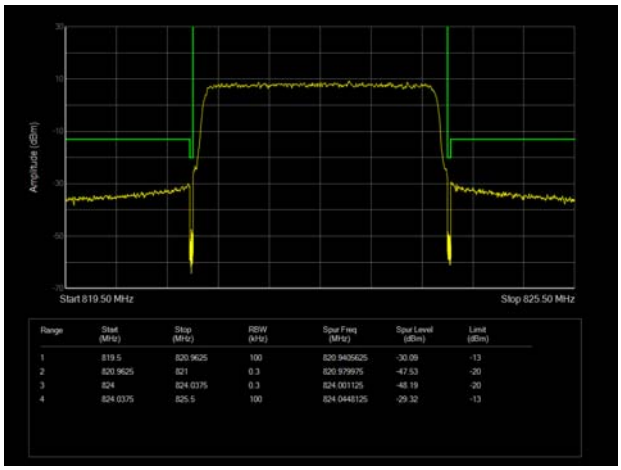
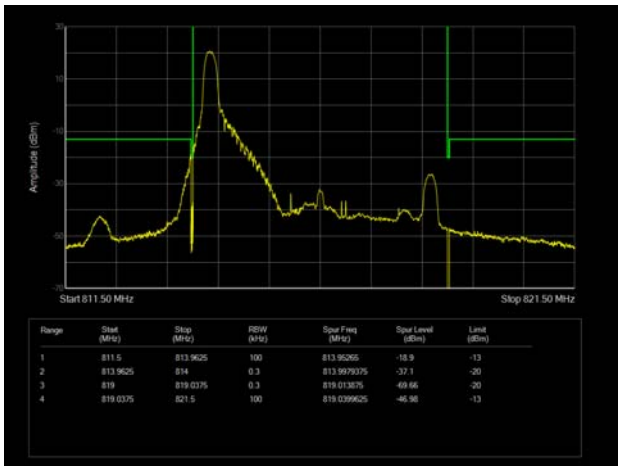
LTE Band 26 QPSK 3MHz CH-Low 100%RB



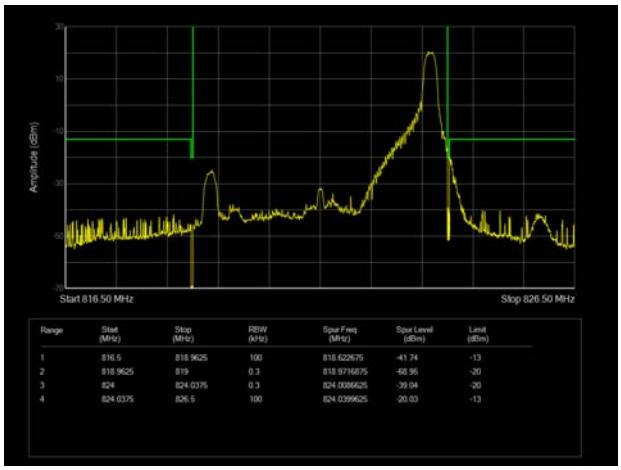
LTE Band 26 QPSK 3MHz CH-High 100%RB



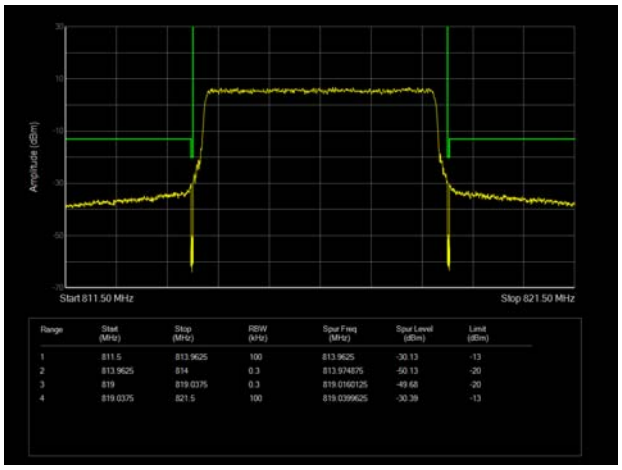
LTE Band 26 QPSK 5MHz CH-Low 1RB



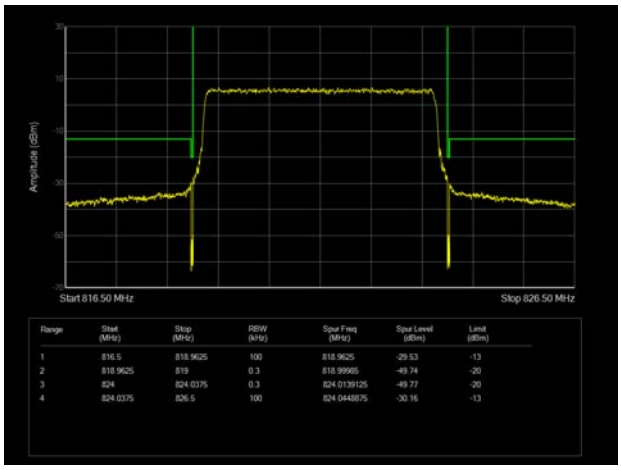
LTE Band 26 QPSK 5MHz CH-High 1RB



LTE Band 26 QPSK 5MHz CH-Low 100%RB



LTE Band 26 QPSK 5MHz CH-High 100%RB



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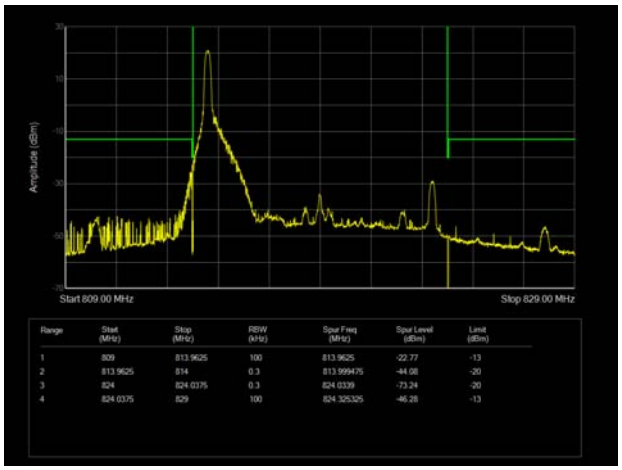
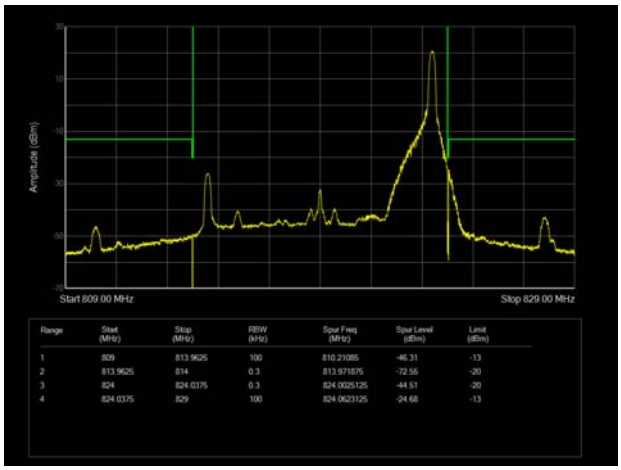
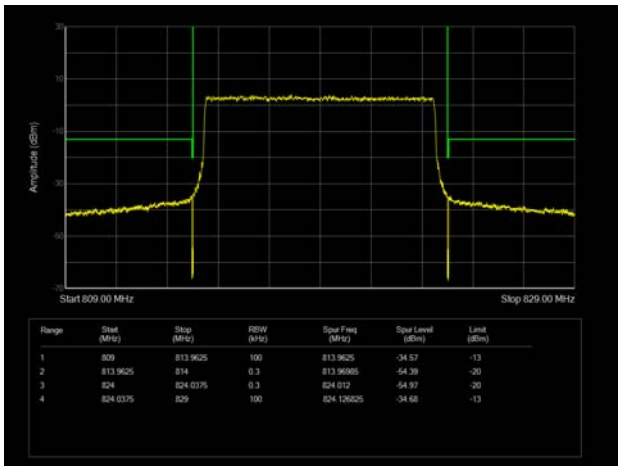
LTE Band 26 QPSK 10MHz CH-Low 1RB



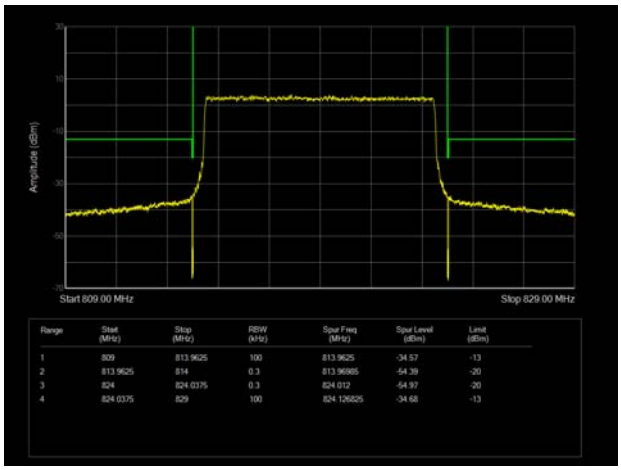
LTE Band 26 QPSK 10MHz CH-High 1RB



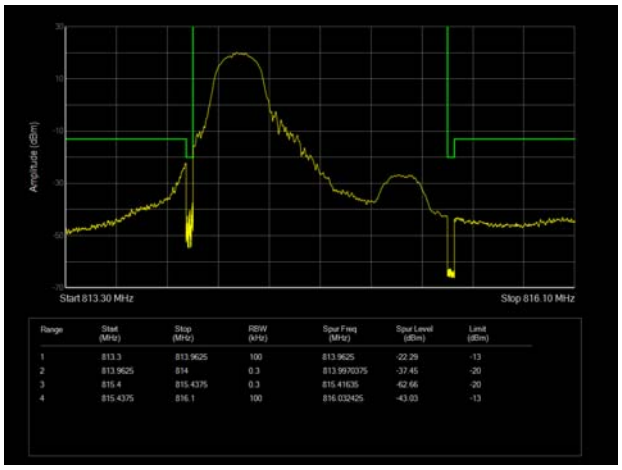
LTE Band 26 QPSK 10MHz CH-Low 100%RB



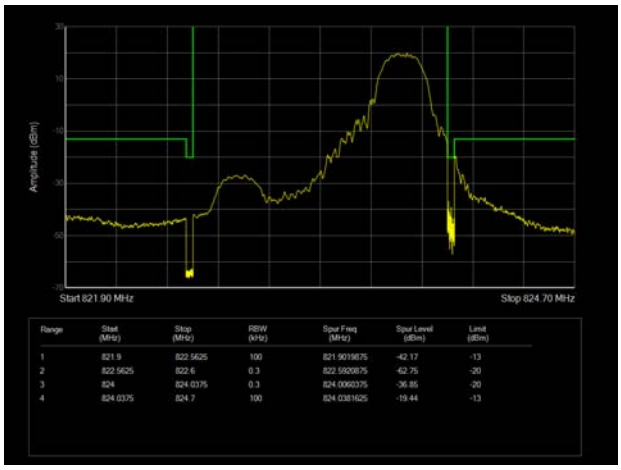
LTE Band 26 QPSK 10MHz CH-High 100%RB



LTE Band 26 16QAM 1.4MHz CH-Low 1RB



LTE Band 26 16QAM 1.4MHz CH-High 1RB



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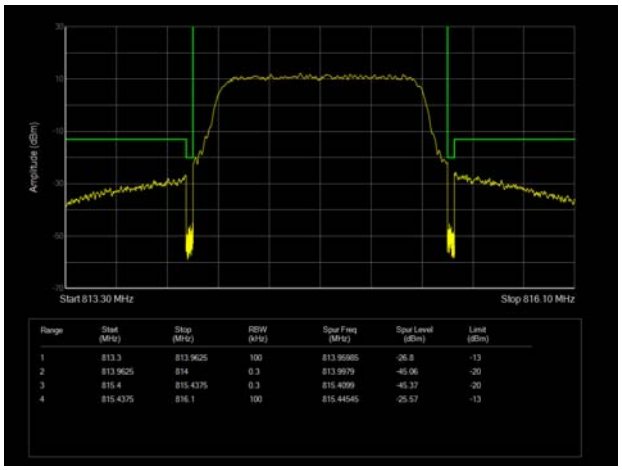
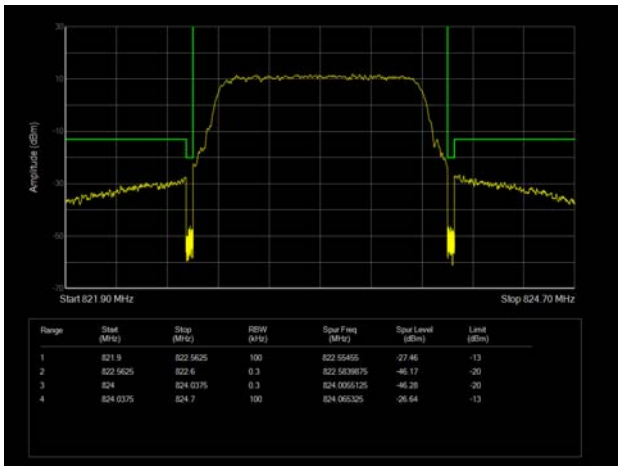
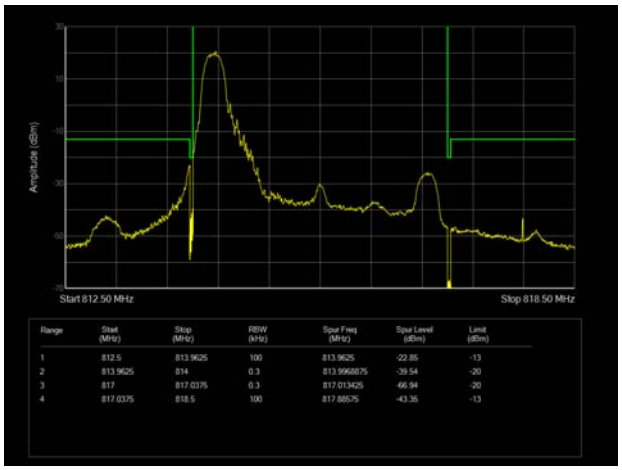
LTE Band 26 16QAM 1.4MHz CH-Low 100%RB



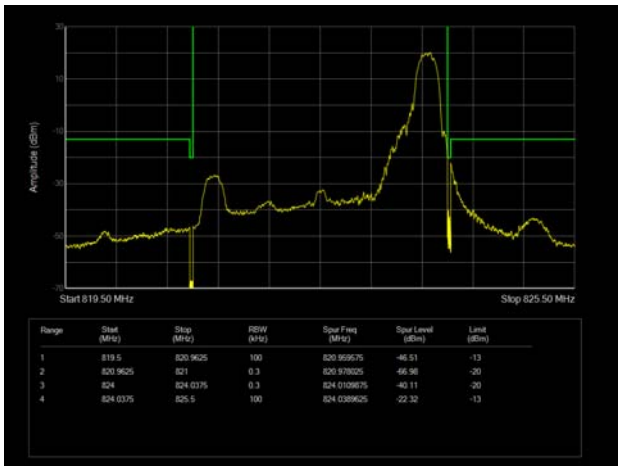
LTE Band 26 16QAM 1.4MHz CH-High 100%RB



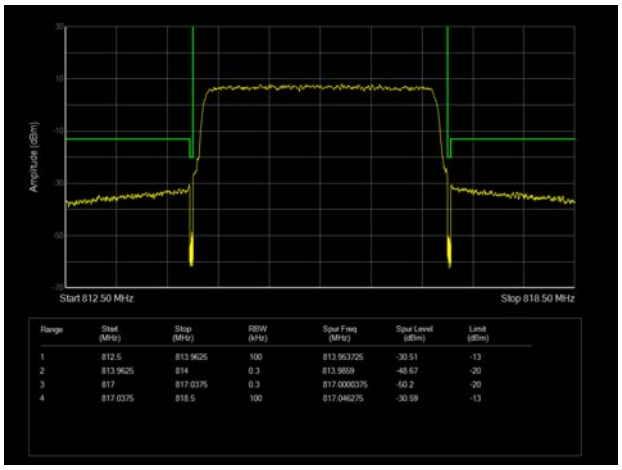
LTE Band 26 16QAM 3MHz CH-Low 1RB



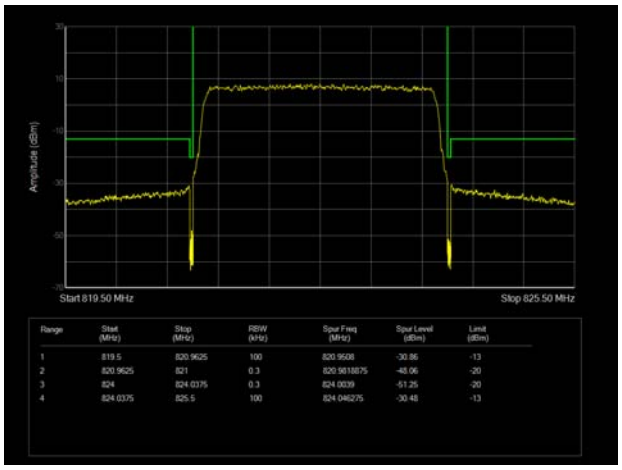
LTE Band 26 16QAM 3MHz CH-High 1RB



LTE Band 26 16QAM 3MHz CH-Low 100%RB



LTE Band 26 16QAM 3MHz CH-High 100%RB



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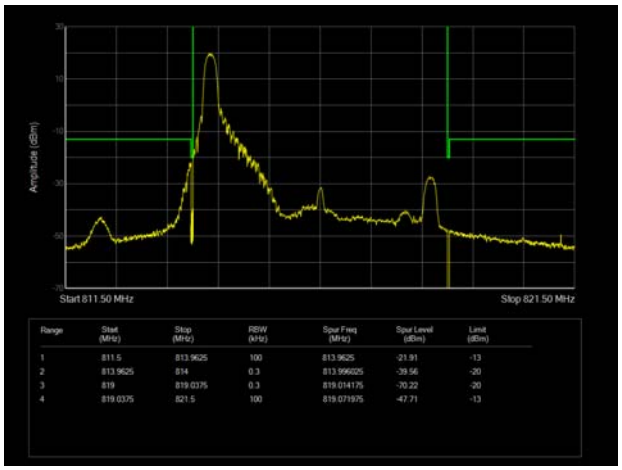
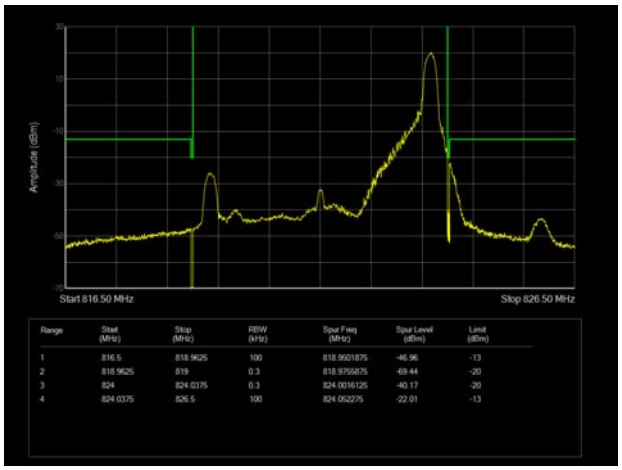
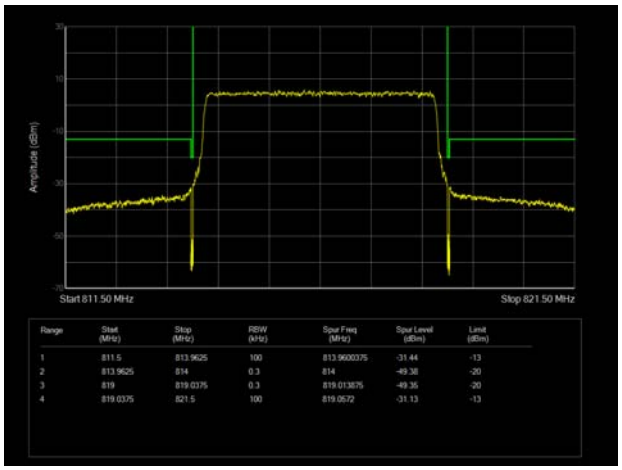
LTE Band 26 16QAM 5MHz CH-Low 1RB



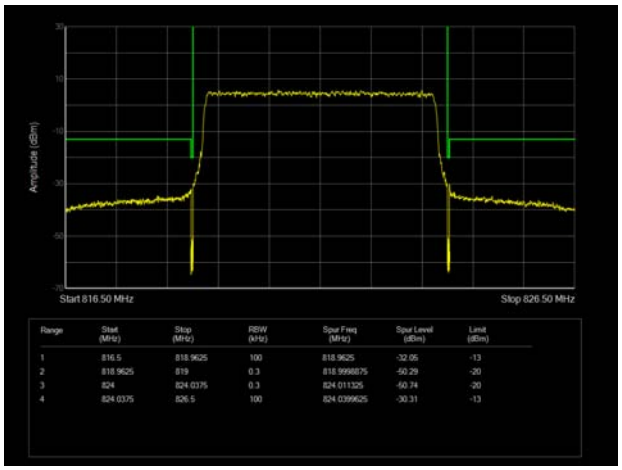
LTE Band 26 16QAM 5MHz CH-High 1RB



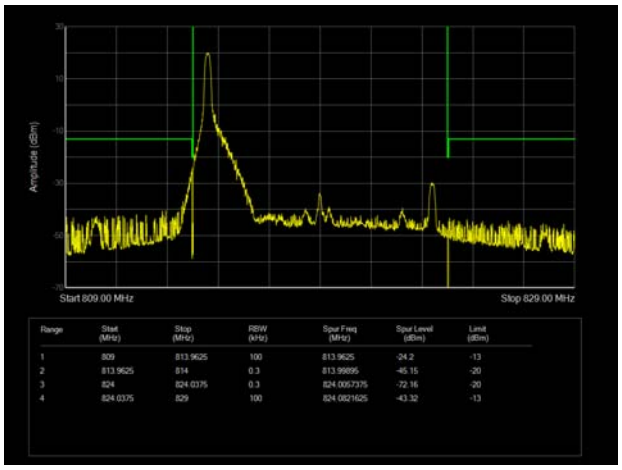
LTE Band 26 16QAM 5MHz CH-Low 100%RB



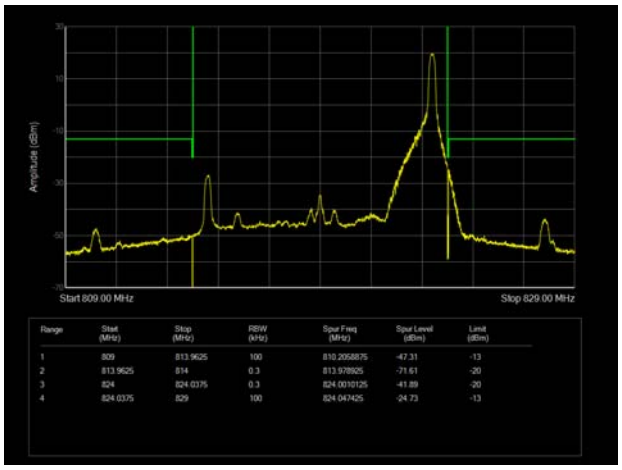
LTE Band 26 16QAM 5MHz CH-High 100%RB



LTE Band 26 16QAM 10MHz CH-Low 1RB



LTE Band 26 16QAM 10MHz CH-High 1RB



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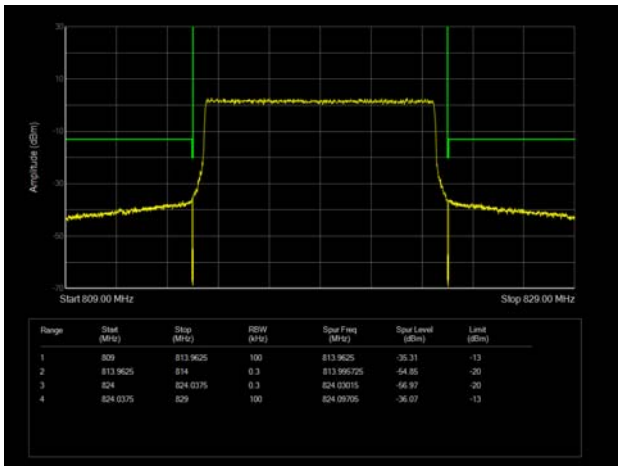
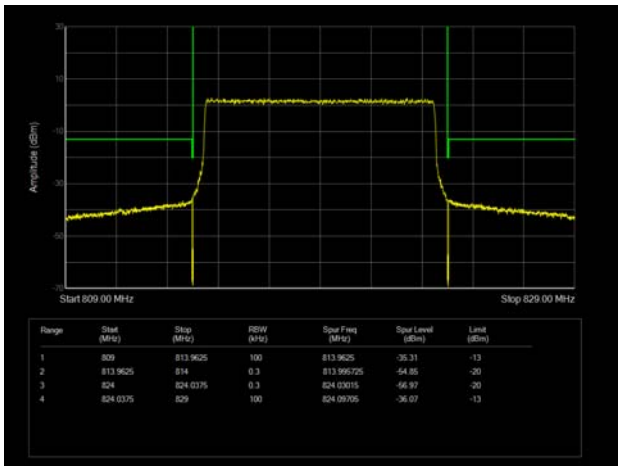
LTE Band 26 16QAM 10MHz CH-Low 100%RB	LTE Band 26 16QAM 10MHz CH-High 100%RB
	

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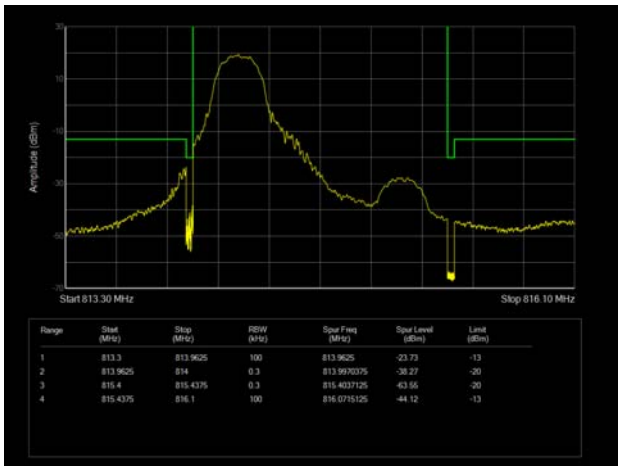
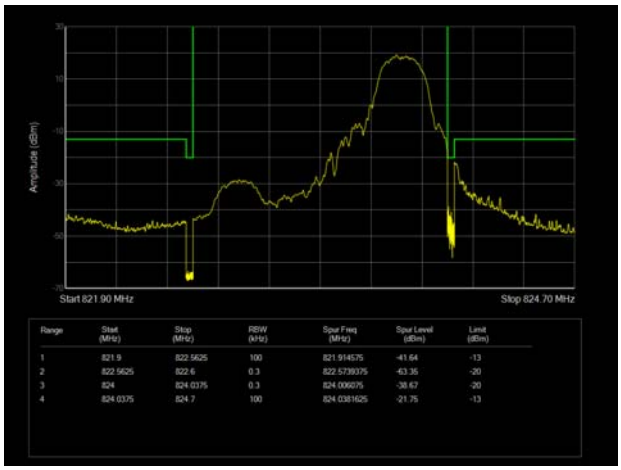
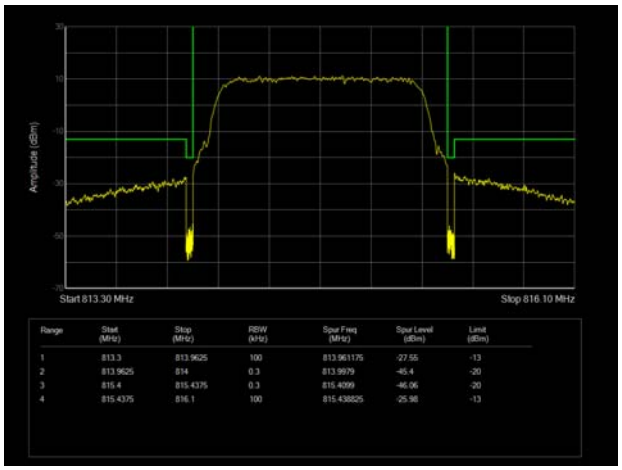
LTE Band 26 64QAM 1.4MHz CH-Low 1RB



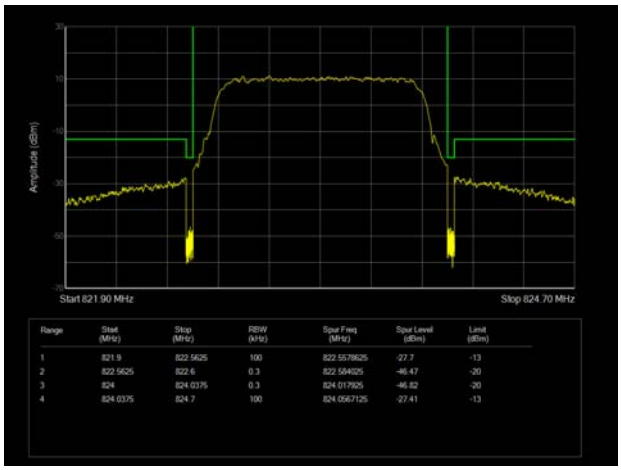
LTE Band 26 64QAM 1.4MHz CH-High 1RB



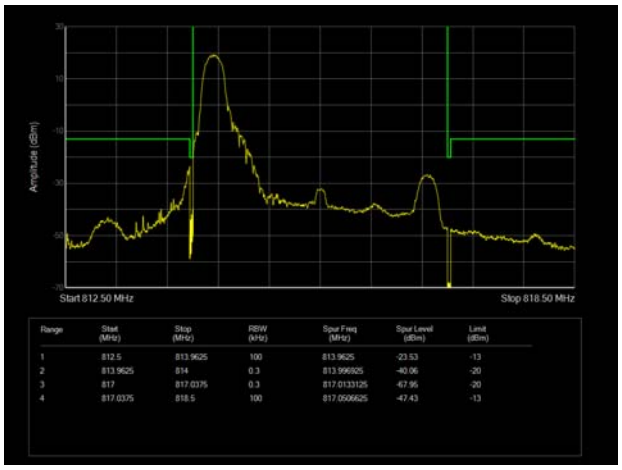
LTE Band 26 64QAM 1.4MHz CH-Low 100%RB



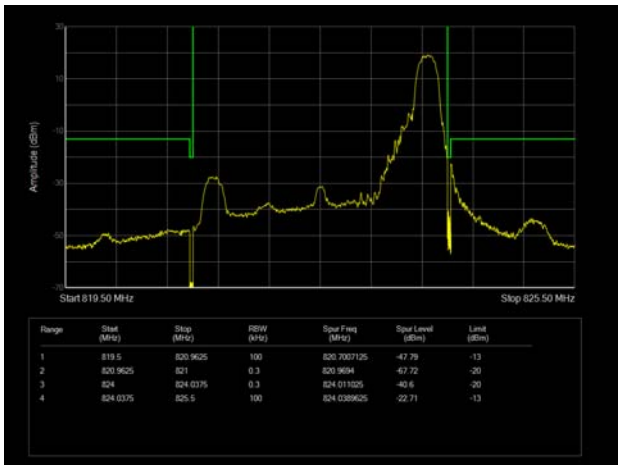
LTE Band 26 64QAM 1.4MHz CH-High 100%RB



LTE Band 26 64QAM 3MHz CH-Low 1RB



LTE Band 26 64QAM 3MHz CH-High 1RB



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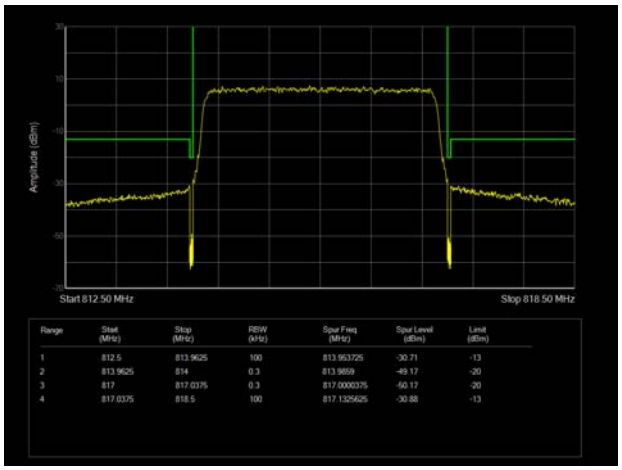
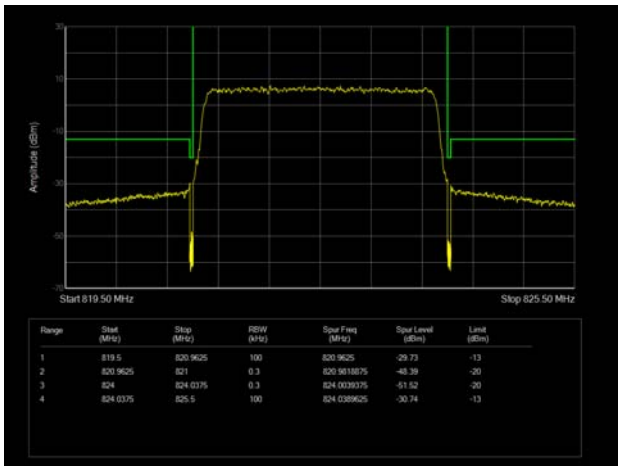
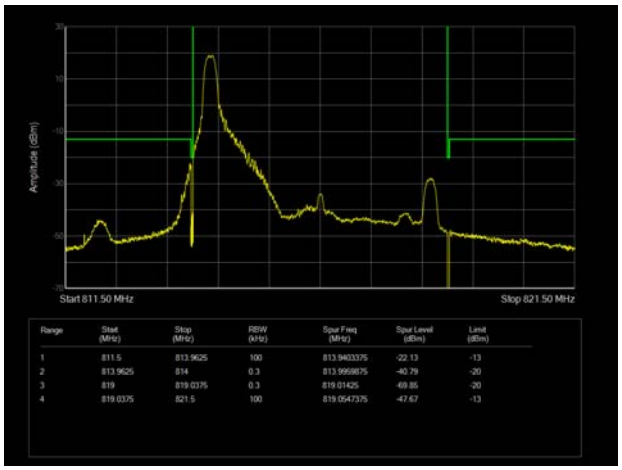
LTE Band 26 64QAM 3MHz CH-Low 100%RB



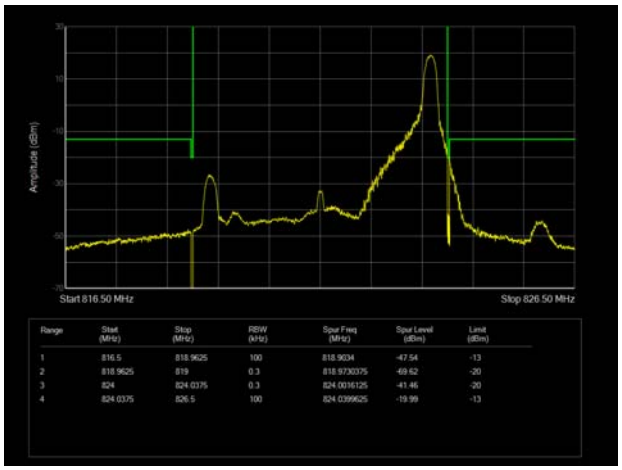
LTE Band 26 64QAM 3MHz CH-High 100%RB



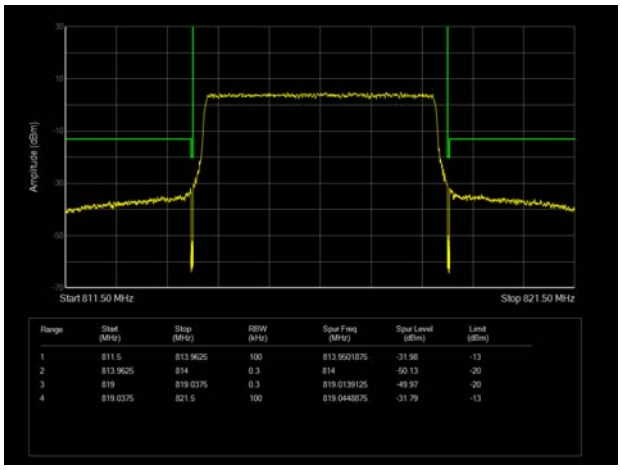
LTE Band 26 64QAM 5MHz CH-Low 1RB



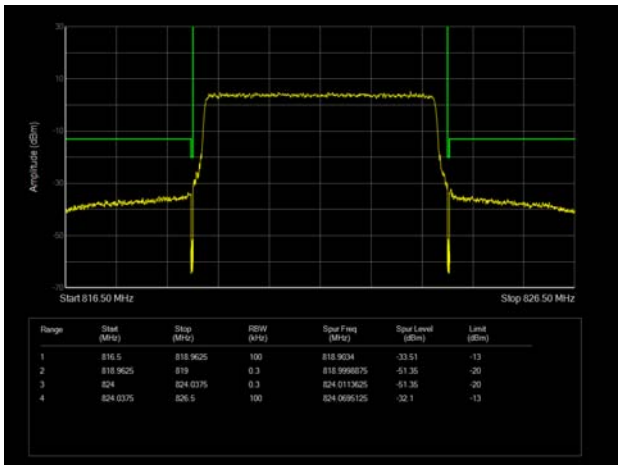
LTE Band 26 64QAM 5MHz CH-High 1RB



LTE Band 26 64QAM 5MHz CH-Low 100%RB



LTE Band 26 64QAM 5MHz CH-High 100%RB



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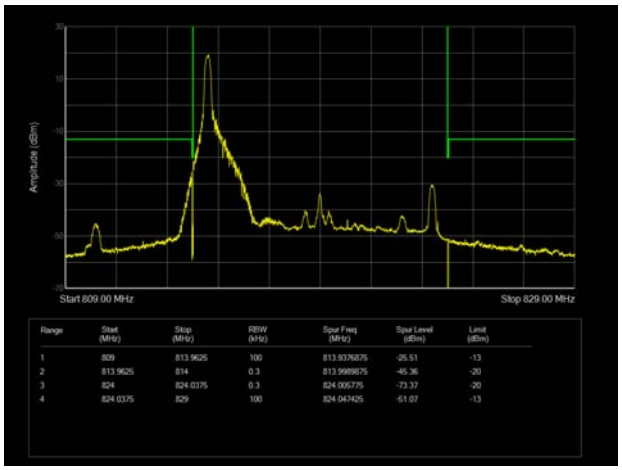
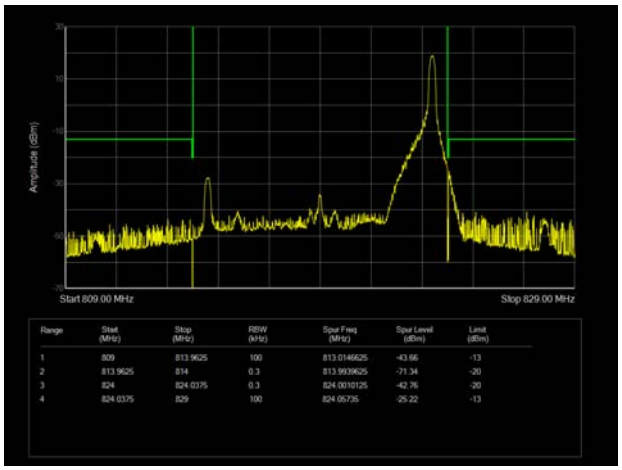
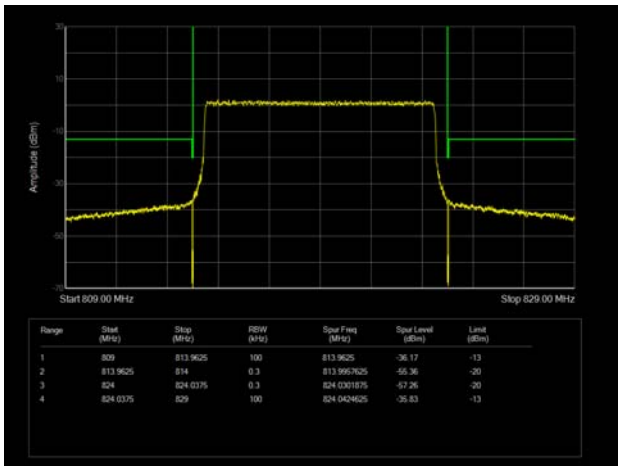
LTE Band 26 64QAM 10MHz CH-Low 1RB



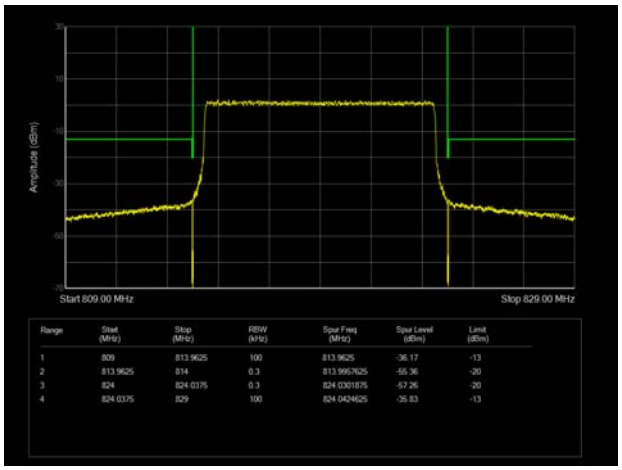
LTE Band 26 64QAM 10MHz CH-High 1RB



LTE Band 26 64QAM 10MHz CH-Low 100%RB



LTE Band 26 64QAM 10MHz CH-High 100%RB



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6.4. Peak-to-Average Power Ratio (PAPR)

Mode	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
1.4 MHz (QPSK)	26697	814.7	27.17	22.11	5.06	13	PASS
	26740	819	27.25	22.09	5.16	13	PASS
	26783	823.3	27.25	22.12	5.13	13	PASS
3 MHz (QPSK)	26697	814.7	27.21	22.03	5.18	13	PASS
	26740	819	27.17	22.04	5.13	13	PASS
	26783	823.3	27.21	22.04	5.17	13	PASS
5 MHz (QPSK)	26697	814.7	27.25	22.03	5.22	13	PASS
	26740	819	27.25	22.04	5.21	13	PASS
	26783	823.3	27.32	22.06	5.26	13	PASS
10 MHz (QPSK)	26740	819	27.29	22.09	5.20	13	PASS
1.4 MHz (16QAM)	26697	814.7	26.87	21.06	5.81	13	PASS
	26740	819	26.90	21.07	5.83	13	PASS
	26783	823.3	27.07	21.14	5.93	13	PASS
3 MHz (16QAM)	26697	814.7	26.97	21.07	5.90	13	PASS
	26740	819	26.99	21.02	5.97	13	PASS
	26783	823.3	27.02	21.03	5.99	13	PASS
5 MHz (16QAM)	26697	814.7	26.98	21.04	5.94	13	PASS
	26740	819	26.99	21.07	5.92	13	PASS
	26783	823.3	26.99	21.04	5.95	13	PASS
10 MHz (16QAM)	26740	819	27.02	21.05	5.97	13	PASS
1.4 MHz (64QAM)	26697	814.7	26.14	20.27	5.87	13	PASS
	26740	819	26.23	20.32	5.91	13	PASS
	26783	823.3	26.32	20.37	5.95	13	PASS
3 MHz (64QAM)	26697	814.7	26.16	20.23	5.93	13	PASS
	26740	819	26.20	20.21	5.99	13	PASS
	26783	823.3	26.19	20.27	5.92	13	PASS
5 MHz (64QAM)	26697	814.7	26.20	20.24	5.96	13	PASS
	26740	819	26.23	20.26	5.97	13	PASS
	26783	823.3	26.24	20.25	5.99	13	PASS
10 MHz (64QAM)	26740	819	26.23	20.26	5.97	13	PASS

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6.5. Frequency Stability

LTE Band 26								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability（ppm）	Frequency Stability（ppm）	Frequency Stability（ppm）	Verdict
BANDWIDTH	1.4MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal（25℃）	Normal	12.08	17.17	11.76	0.01475	0.02096	0.01436	PASS
Extreme（50℃）		5.34	5.73	9.61	0.00652	0.00700	0.01173	PASS
Extreme（40℃）		5.21	9.58	6.79	0.00636	0.01169	0.00829	PASS
Extreme（30℃）		15.76	12.23	8.41	0.01924	0.01493	0.01027	PASS
Extreme（20℃）		6.56	16.99	8.70	0.00800	0.02074	0.01062	PASS
Extreme（10℃）		16.99	13.49	11.16	0.02074	0.01647	0.01363	PASS
Extreme（0℃）		8.28	14.36	7.41	0.01011	0.01753	0.00905	PASS
Extreme（-10℃）		13.84	9.45	14.70	0.01690	0.01154	0.01795	PASS
Extreme（-20℃）		5.26	12.35	5.48	0.00642	0.01508	0.00669	PASS
Extreme（-30℃）		17.15	1.87	15.44	0.02094	0.00229	0.01885	PASS
25℃	LV	14.40	11.51	4.20	0.01759	0.01406	0.00513	PASS
	HV	15.03	4.30	7.38	0.01836	0.00525	0.00901	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability（ppm）	Frequency Stability（ppm）	Frequency Stability（ppm）	Verdict
BANDWIDTH	3MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal（25℃）	Normal	11.40	14.24	8.55	0.01392	0.01739	0.01044	PASS
Extreme（50℃）		4.10	14.80	8.42	0.00500	0.01807	0.01028	PASS
Extreme（40℃）		13.36	13.69	16.11	0.01631	0.01671	0.01967	PASS
Extreme（30℃）		17.14	14.95	15.89	0.02093	0.01826	0.01940	PASS
Extreme（20℃）		12.73	14.67	10.89	0.01554	0.01791	0.01330	PASS
Extreme（10℃）		8.26	13.54	13.31	0.01008	0.01654	0.01625	PASS
Extreme（0℃）		2.91	16.08	2.67	0.00355	0.01963	0.00326	PASS
Extreme（-10℃）		4.70	3.10	5.34	0.00574	0.00378	0.00652	PASS
Extreme（-20℃）		9.93	1.95	15.53	0.01212	0.00238	0.01896	PASS
Extreme（-30℃）		1.58	11.27	13.45	0.00193	0.01376	0.01643	PASS
25℃	LV	12.06	9.47	12.78	0.01472	0.01156	0.01560	PASS
	HV	14.88	10.04	14.92	0.01816	0.01226	0.01822	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability（ppm）	Frequency Stability（ppm）	Frequency Stability（ppm）	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	

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Normal（25℃）	Normal	12.41	7.29	13.00	0.01515	0.00890	0.01587	PASS
Extreme（50℃）		2.88	5.60	12.49	0.00352	0.00684	0.01524	PASS
Extreme（40℃）		14.16	13.14	9.89	0.01729	0.01605	0.01207	PASS
Extreme（30℃）		5.51	16.36	7.53	0.00673	0.01997	0.00920	PASS
Extreme（20℃）		3.06	9.79	6.29	0.00373	0.01196	0.00767	PASS
Extreme（10℃）		14.81	4.43	15.66	0.01809	0.00541	0.01912	PASS
Extreme（0℃）		14.49	5.32	12.16	0.01769	0.00650	0.01484	PASS
Extreme（-10℃）		2.99	4.02	10.68	0.00365	0.00491	0.01304	PASS
Extreme（-20℃）		9.12	1.75	3.50	0.01114	0.00213	0.00428	PASS
Extreme（-30℃）		1.15	1.22	13.27	0.00140	0.00149	0.01620	PASS
25℃	LV	8.95	17.35	16.31	0.01092	0.02118	0.01991	PASS
	HV	12.49	9.16	10.43	0.01526	0.01118	0.01274	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability（ppm）	Frequency Stability（ppm）	Frequency Stability（ppm）	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal（25℃）	Normal	17.71	14.67	3.45	0.02162	0.01792	0.00422	PASS
Extreme（50℃）		8.99	13.27	6.61	0.01097	0.01620	0.00807	PASS
Extreme（40℃）		10.04	3.76	12.06	0.01226	0.00459	0.01473	PASS
Extreme（30℃）		5.11	3.94	17.35	0.00624	0.00481	0.02118	PASS
Extreme（20℃）		2.50	5.88	6.62	0.00305	0.00717	0.00808	PASS
Extreme（10℃）		13.93	13.61	13.60	0.01701	0.01662	0.01661	PASS
Extreme（0℃）		15.14	12.78	13.43	0.01849	0.01561	0.01639	PASS
Extreme（-10℃）		1.12	2.33	3.33	0.00136	0.00284	0.00406	PASS
Extreme（-20℃）		10.66	3.29	15.38	0.01302	0.00402	0.01878	PASS
Extreme（-30℃）		3.36	15.94	13.06	0.00410	0.01946	0.01595	PASS
25℃	LV	3.10	3.71	17.70	0.00379	0.00453	0.02161	PASS
	HV	3.08	7.20	3.43	0.00376	0.00879	0.00418	PASS

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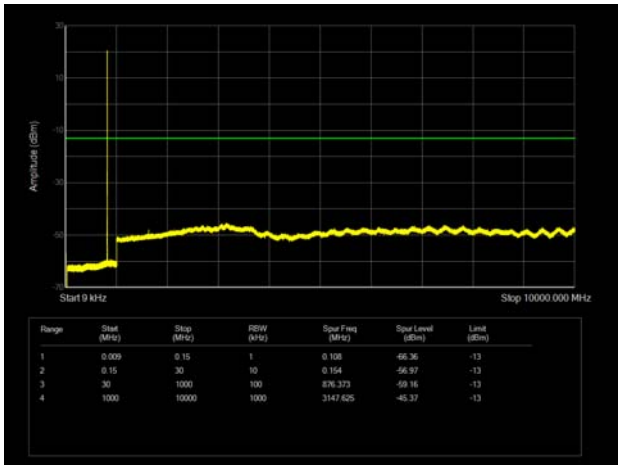
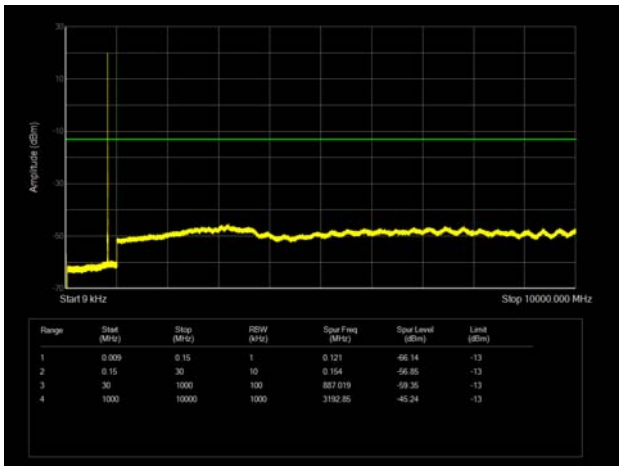
6.6. Spurious Emissions at Antenna Terminals

If disturbances were found more than 20dB below limit line, the mark is not required for the EUT. The signal beyond the limit is carrier.

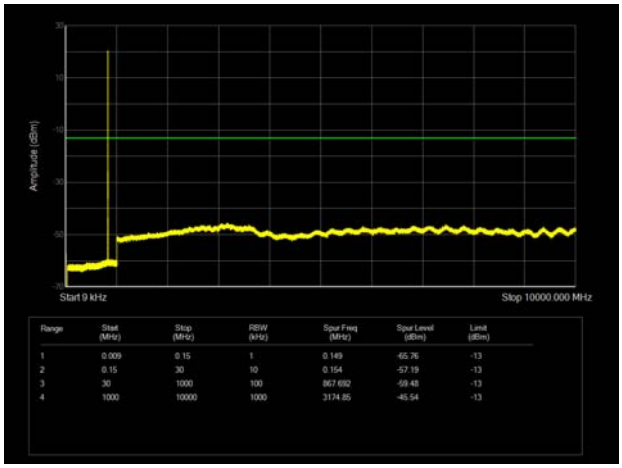
LTE Band 26 1.4MHz CH Low 9KHz~10GHz



LTE Band 26 1.4MHz CH Middle 9KHz~10GHz



LTE Band 26 1.4MHz CH High 9KHz~10GHz



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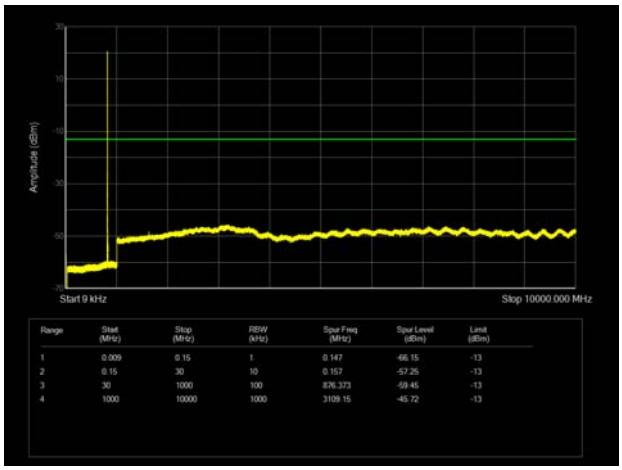
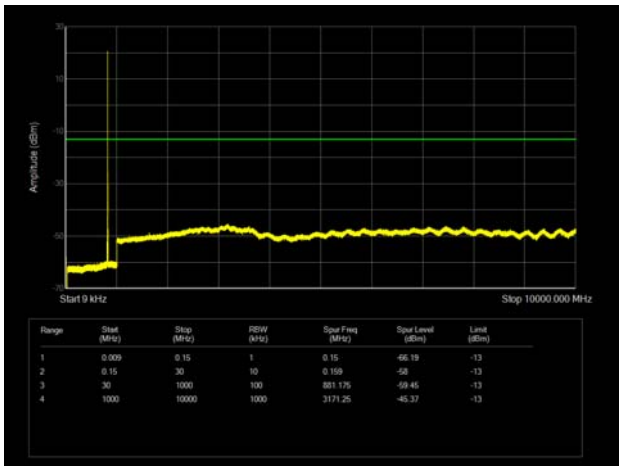
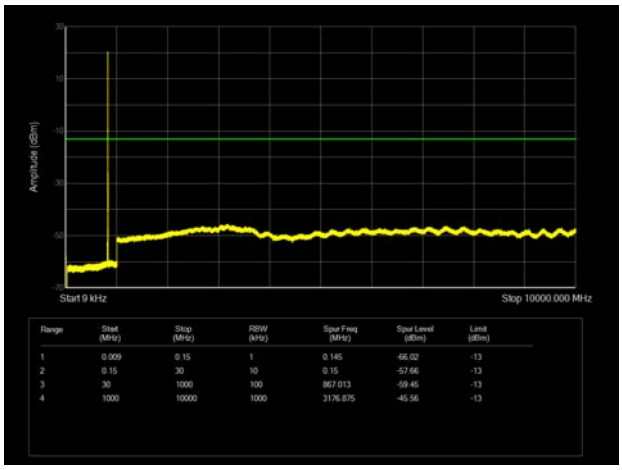
LTE Band 26 3MHz CH Low 9KHz~10GHz



LTE Band 26 3MHz CH Middle 9KHz~10GHz



LTE Band 26 3MHz CH High 9KHz~10GHz



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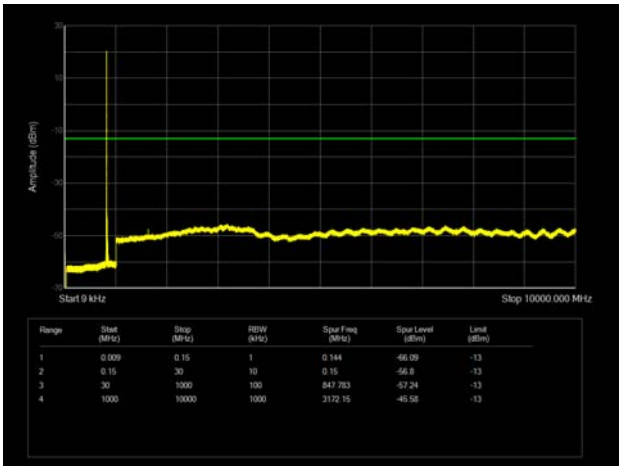
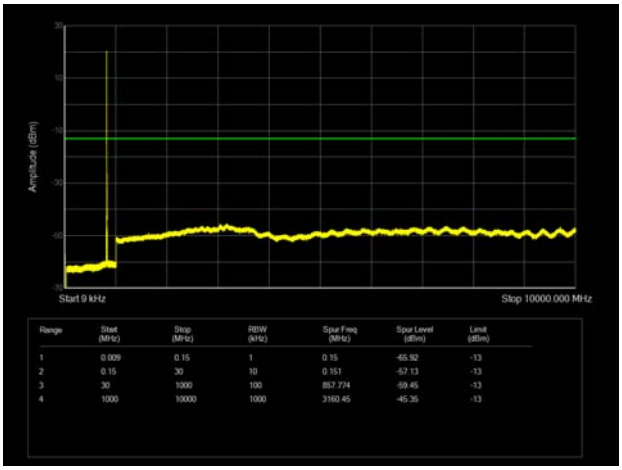
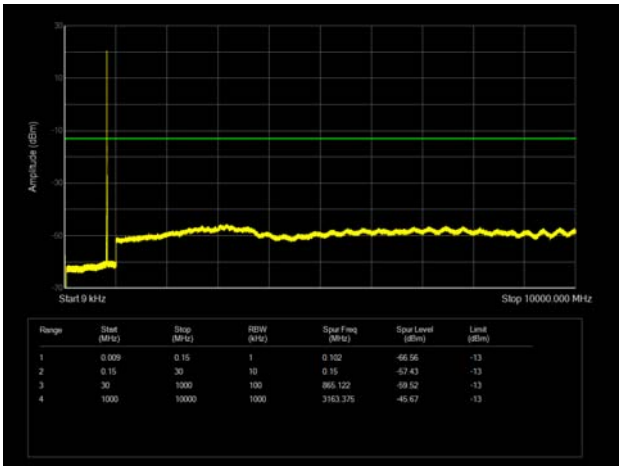
LTE Band 26 5MHz CH Low 9KHz~10GHz



LTE Band 26 5MHz CH Middle 9KHz~10GHz



LTE Band 26 5MHz CH High 9KHz~10GHz



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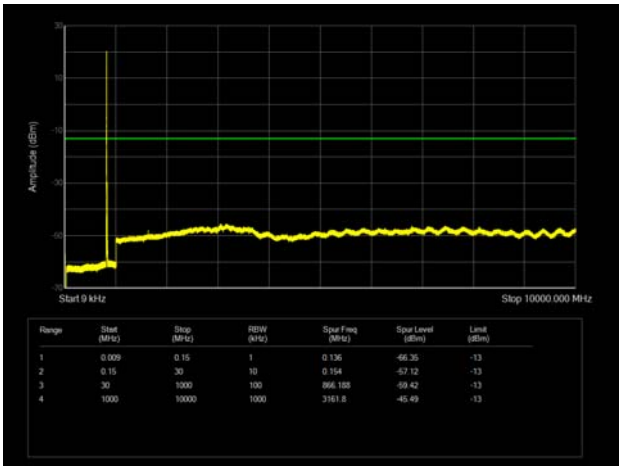
LTE Band 26 10MHz CH Middle 9KHz~10GHz



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.136	-66.35	-13
2	0.15	30	10	0.154	-57.12	-13
3	30	1000	100	866.188	-59.42	-13
4	1000	10000	1000	3161.8	-45.49	-13

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6.7. Radiated Spurious Emission

Sweep the whole frequency band through the range from 30MHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

Upper Antenna

LTE Band 26 1.4MHz CH Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1636.60	-64.45	1.70	8.70	Vertical	-59.60	-13.00	46.60	90
3	2454.90	-65.60	2.30	12.00	Vertical	-58.05	-13.00	45.05	225
4	3273.20	-67.70	2.20	13.10	Vertical	-58.95	-13.00	45.95	170
5	4091.50	-63.57	3.00	12.50	Vertical	-56.22	-13.00	43.22	49
6	4909.80	-62.28	3.10	12.50	Vertical	-55.03	-13.00	42.03	286
7	5728.10	-61.63	3.40	12.50	Vertical	-54.68	-13.00	41.68	149
8	6546.40	-60.05	3.80	11.50	Vertical	-54.50	-13.00	41.50	270
9	7364.70	-56.63	4.20	12.20	Vertical	-50.78	-13.00	37.78	49
10	8183.00	-55.07	4.30	12.30	Vertical	-49.22	-13.00	36.22	38
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2.The worst emission was found in the antenna is Vertical position.									

LTE Band 26 5MHz CH Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1633.00	-63.14	1.70	8.70	Vertical	-58.29	-13.00	45.29	280
3	2449.50	-63.94	2.30	12.00	Vertical	-56.39	-13.00	43.39	103
4	3266.00	-67.16	2.20	13.10	Vertical	-58.41	-13.00	45.41	41
5	4082.50	-64.69	3.00	12.50	Vertical	-57.34	-13.00	44.34	89
6	4899.00	-63.03	3.10	12.50	Vertical	-55.78	-13.00	42.78	34
7	5715.50	-61.46	3.40	12.50	Vertical	-54.51	-13.00	41.51	79
8	6532.00	-59.93	3.80	11.50	Vertical	-54.38	-13.00	41.38	55
9	7348.50	-56.11	4.20	12.20	Vertical	-50.26	-13.00	37.26	173
10	8165.00	-54.62	4.30	12.30	Vertical	-48.77	-13.00	35.77	96
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2.The worst emission was found in the antenna is Vertical position.									

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LTE Band 26 10MHz CH Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1628.00	-59.16	1.70	8.70	Vertical	-54.31	-13.00	41.31	315
3	2442.00	-55.35	2.30	12.00	Vertical	-47.80	-13.00	34.80	111
4	3256.00	-67.32	2.20	13.10	Vertical	-58.57	-13.00	45.57	166
5	4070.00	-64.70	3.00	12.50	Vertical	-57.35	-13.00	44.35	9
6	4884.00	-63.00	3.10	12.50	Vertical	-55.75	-13.00	42.75	79
7	5698.00	-62.05	3.40	12.50	Vertical	-55.10	-13.00	42.10	190
8	6512.00	-58.90	3.80	11.50	Vertical	-53.35	-13.00	40.35	34
9	7326.00	-55.37	4.20	12.20	Vertical	-49.52	-13.00	36.52	47
10	8140.00	-54.85	4.30	12.30	Vertical	-49.00	-13.00	36.00	229

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2.The worst emission was found in the antenna is Vertical position.

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Low Antenna

LTE Band 26 1.4MHz CH Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1637.30	-57.63	1.70	8.70	Vertical	-52.78	-13.00	39.78	178
3	2455.55	-53.00	2.30	12.00	Vertical	-45.45	-13.00	32.45	160
4	3273.20	-66.96	2.20	13.10	Vertical	-58.21	-13.00	45.21	309
5	4091.50	-64.29	3.00	12.50	Vertical	-56.94	-13.00	43.94	17
6	4909.80	-63.06	3.10	12.50	Vertical	-55.81	-13.00	42.81	81
7	5728.10	-61.61	3.40	12.50	Vertical	-54.66	-13.00	41.66	53
8	6546.40	-59.80	3.80	11.50	Vertical	-54.25	-13.00	41.25	134
9	7364.70	-56.09	4.20	12.20	Vertical	-50.24	-13.00	37.24	157
10	8183.00	-54.69	4.30	12.30	Vertical	-48.84	-13.00	35.84	75

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2.The worst emission was found in the antenna is Vertical position.

LTE Band 26 5MHz CH Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1633.85	-58.67	1.70	8.70	Vertical	-53.82	-13.00	40.82	10
3	2450.25	-53.40	2.30	12.00	Vertical	-45.85	-13.00	32.85	154
4	3266.00	-67.86	2.20	13.10	Vertical	-59.11	-13.00	46.11	31
5	4082.50	-63.80	3.00	12.50	Vertical	-56.45	-13.00	43.45	178
6	4899.00	-64.27	3.10	12.50	Vertical	-57.02	-13.00	44.02	87
7	5715.50	-62.30	3.40	12.50	Vertical	-55.35	-13.00	42.35	34
8	6532.00	-60.68	3.80	11.50	Vertical	-55.13	-13.00	42.13	264
9	7348.50	-55.73	4.20	12.20	Vertical	-49.88	-13.00	36.88	307
10	8165.00	-54.89	4.30	12.30	Vertical	-49.04	-13.00	36.04	163

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2.The worst emission was found in the antenna is Vertical position.

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LTE Band 26 10MHz CH Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1629.35	-60.77	1.70	8.70	Vertical	-55.92	-13.00	42.92	5
3	2443.95	-54.80	2.30	12.00	Vertical	-47.25	-13.00	34.25	170
4	3256.00	-66.56	2.20	13.10	Vertical	-57.81	-13.00	44.81	56
5	4070.00	-64.64	3.00	12.50	Vertical	-57.29	-13.00	44.29	38
6	4884.00	-63.05	3.10	12.50	Vertical	-55.80	-13.00	42.80	97
7	5698.00	-61.55	3.40	12.50	Vertical	-54.60	-13.00	41.60	109
8	6512.00	-59.74	3.80	11.50	Vertical	-54.19	-13.00	41.19	122
9	7326.00	-56.23	4.20	12.20	Vertical	-50.38	-13.00	37.38	81
10	8140.00	-54.02	4.30	12.30	Vertical	-48.17	-13.00	35.17	43

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2.The worst emission was found in the antenna is Vertical position.

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7. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Base Station Simulator	R&S	CMW500	150415	2022-05-14	2023-05-13
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	1023	2020-05-05	2023-05-04
Spectrum Analyzer	Agilent	N9020A	MY50510203	2021-12-12	2022-12-11
Universal Radio Communication Tester	Key sight	E5515C	GB44400275	2021-12-12	2022-12-11
Signal Analyzer	R&S	FSV3030	101411	2021-12-12	2022-12-11
Climatic Chamber	ESPEC	SU-242	93000506	2021-12-12	2022-12-11
Spectrum Analyzer	R&S	FSV30	104028	2021-12-12	2022-12-11
Horn Antenna	Schwarzbeck	BBHA 9120D	1594	2020-12-17	2023-12-16
Software	R&S	EMC32	10.35.10	/	/

********END OF REPORT ********

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ANNEX A: The EUT Appearance

The EUT Appearance is submitted separately.

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ANNEX B: Test Setup Photos

The Test Setup Photos is submitted separately.

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