



# RF TEST REPORT

**Applicant** Huawei Device Co., Ltd.  
**FCC ID** 2ATEYCTR-LX3  
**Product** Smart phone  
**Model** CTR-LX3  
**Report No.** R2205A0419-R1V1  
**Issue Date** June 23, 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 22H (2021)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Prepared by: Peng Tao

Approved by: Kai Xu

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Version	Revision description	Issue Date
Rev.0	Initial issue of report.	June 15, 2022
Rev.1	Update description.	June 23, 2022

Note: This revised report (Report No. R2205A0419-R1V1) supersedes and replaces the previously issued report (Report No. R2205A0419-R1). Please discard or destroy the previously issued report and dispose of it accordingly.



## Summary of measurement results

No.	Test Case	Clause in FCC rules	Verdict
1	RF Power Output and Effective Radiated Power	2.1046 22.913(a)(5)	PASS
2	Occupied Bandwidth	2.1049	PASS
3	Band Edge Compliance	2.1051 / 22.917(a)	PASS
4	Peak-to-Average Power Ratio	22.913(d)/ KDB 971168 D01(5.7)	PASS
5	Frequency Stability	2.1055 / 22.355	PASS
6	Spurious Emissions at Antenna Terminals	2.1051 / 22.917(a)	PASS
7	Radiates Spurious Emission	2.1053 / 22.917 (a)	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.  
Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong  
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)
	GSM 850	-5.1	-7.0
	WCDMA Band V	-5.0	-5.1
	LTE Band 5	-5.2	-5.7
	LTE Band 26	-5.0	-5.5
Test Mode(s)	GSM 850; WCDMA Band V; LTE Band 5/26;		
Test Modulation	(GSM/GPRS)GMSK, (EGPRS) GMSK/ 8PSK; (WCDMA) BPSK, QPSK; (LTE) QPSK, 16QAM, 64QAM		
GPRS Multislot Class	12		
EGPRS Multislot Class	12		
HSDPA UE Category	24		
HSUPA UE Category	6		
DC-HSDPA UE Category	24		
LTE Category	7		
Maximum E.R.P.	GSM 850:	26.35 dBm	
	WCDMA Band V:	17.17 dBm	
	LTE Band 5:	16.93 dBm	
	LTE Band 26:	16.84 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)		Band	Tx (MHz)	Rx (MHz)
		GSM850	824 ~ 849	869 ~ 894
		WCDMA Band V	824 ~ 849	869 ~ 894
		LTE Band 5	824 ~ 849	869 ~ 894
		LTE Band 26	824 ~ 849	869 ~ 894
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-33 9	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	FREEPORT 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 CFR 47 Part 22H (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 GSM/WCDMA/LTE is set based on the maximum RF Output Power.

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

Test items	Modes/Modulation	
	GSM 850	WCDMA Band V
RF Power Output and Effective Radiated power	GSM GPRS EGPRS	RMC/ AMR HSDPA/HSUPA DC-HSDPA
Occupied Bandwidth	GSM GPRS(1Tx slot) EGPRS(1Tx slot)	RMC
Band Edge Compliance	GSM GPRS(1Tx slot) EGPRS(1Tx slot)	RMC
Peak-to-Average Power Ratio	GSM GPRS(1Tx slot) EGPRS(1Tx slot)	RMC
Frequency Stability	GSM GPRS(1Tx slot) EGPRS(1Tx slot)	RMC
Spurious Emissions at Antenna Terminals	GSM	RMC
Radiates Spurious Emission	GSM	RMC



Test modes are chosen as the worst case configuration below for LTE Band 5/26

Test items	Modes	Bandwidth (MHz)					Modulation		RB			Test Channel		
		1.4	3	5	10	15	QPSK	16QAM/ 64QAM	1	50%	100%	L	M	H
RF power output and Effective Radiated power	LTE 5	O	O	O	O	-	O	O	O	O	O	O	O	O
	LTE 26	O	O	O	O	O	O	O	O	O	O	O	O	O
Occupied Bandwidth	LTE 5	O	O	O	O	-	O	O	-	-	O	O	O	O
	LTE 26	O	O	O	O	O	O	O	-	-	O	O	O	O
Band Edge Compliance	LTE 5	O	O	O	O	-	O	O	O	-	O	O	-	O
	LTE 26	O	O	O	O	O	O	O	O	-	O	O	-	O
Peak-to-Average Power Ratio	LTE 5	O	O	O	O	-	O	O	-	-	O	O	O	O
	LTE 26	O	O	O	O	O	O	O	-	-	O	O	O	O
Frequency Stability	LTE 5	O	O	O	O	-	O	O	O	-	-	-	O	-
	LTE 26	O	O	O	O	O	O	O	O	-	-	-	O	-
Spurious Emissions at Antenna Terminals	LTE 5	O	O	O	O	-	O	-	O	-	-	O	O	O
	LTE 26	O	O	O	O	O	O	-	O	-	-	O	O	O
Radiates Spurious Emission	LTE 5	O	-	O	O	-	O	-	O	-	-	-	O	-
	LTE 26	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 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.

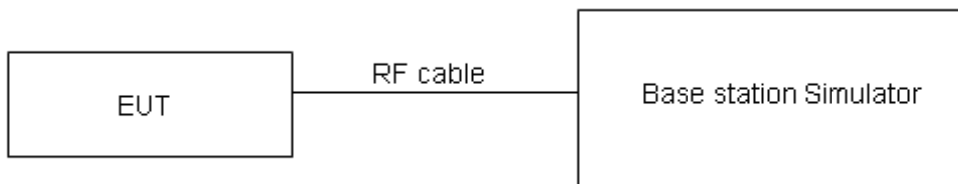
ERP can then be calculated as follows:

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

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 22.913(a)(5) specifies that "Mobile/portable stations are limited to 7 watts ERP".

Limit	$\leq 7 \text{ W}$ (38.45 dBm)
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#### Measurement Uncertainty

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

#### 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

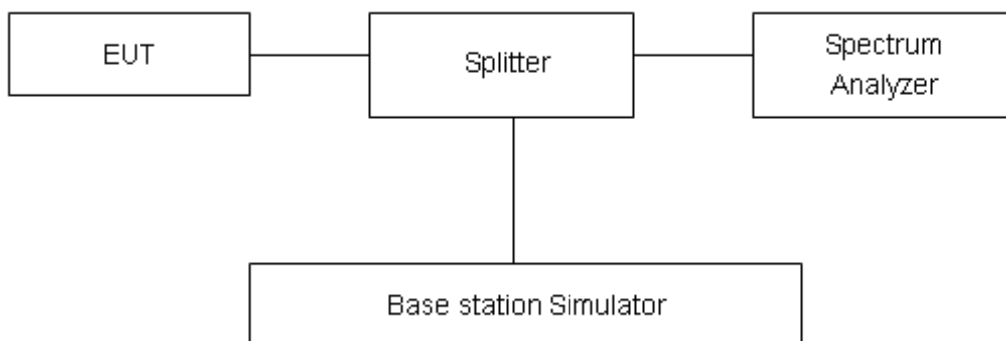
### Method of Measurement

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

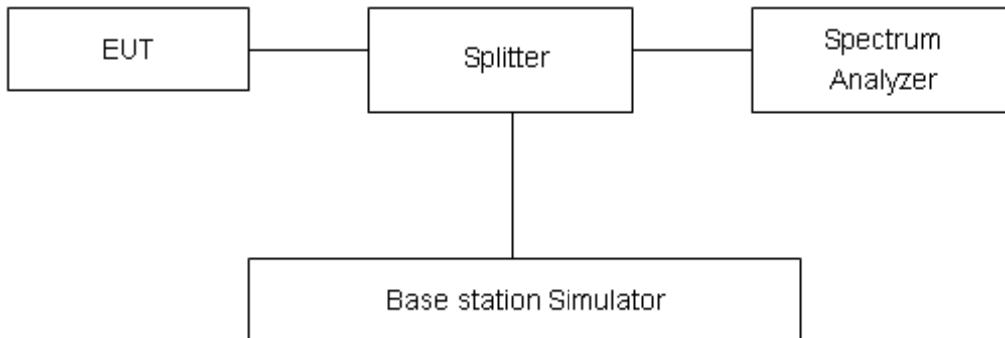
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

#### 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 average detector is used. RBW is set to  $\geq 1\%EBW$ , VBW is set to 3x RBW.

Spectrum analyzer plots are included on the following pages.

#### Test Setup



#### Limits

Rule Part 22.917(a) 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
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#### 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

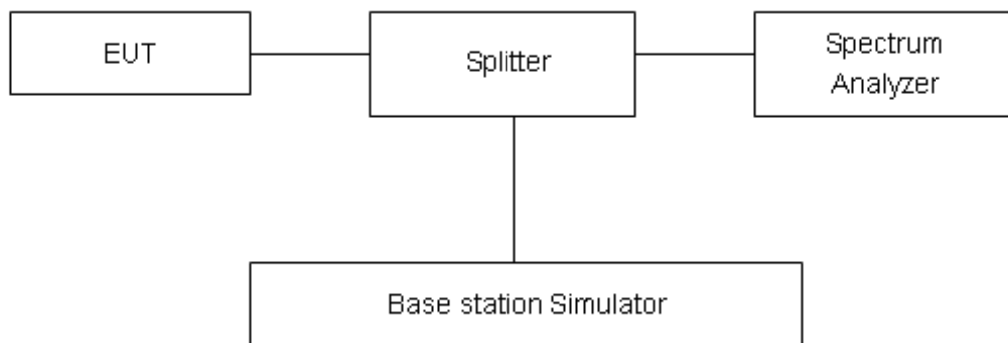
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

#### Methods of Measurement

Measure the total peak power and record as  $P_{Pk}$ . And measure the total average power and record as  $P_{Avg}$ . Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$$PAPR (dB) = P_{Pk} (dBm) - P_{Avg} (dBm).$$

#### Test Setup



#### Limits

According to the Sec. 22.913(d), The peak-to-average ratio (PAR) of the transmission must 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 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 0°C to +35°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.

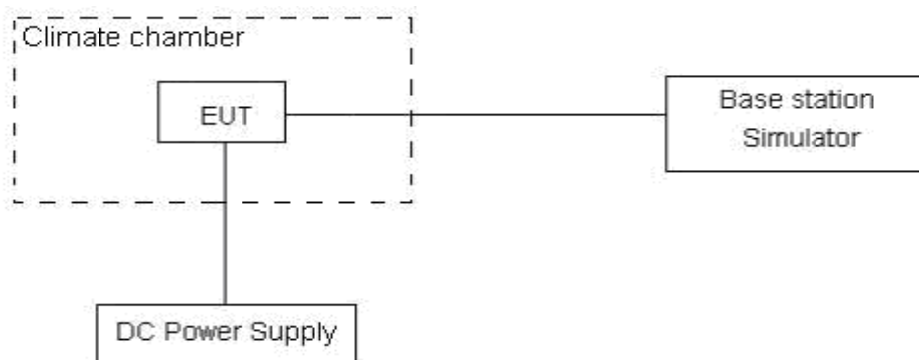
##### Frequency Stability (Voltage Variation)

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

According to the Sec. 22.355, the frequency stability of the carrier shall be accurate to within 2.5 ppm of the received frequency for mobile stations.

Limits	≤ 2.5 ppm
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#### 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 are set to 100 kHz and VBW are set to 300 kHz for below 1G, RBW are set to 1MHz and VBW are set to 3MHz for above 1G, Sweep is set to ATUO.

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

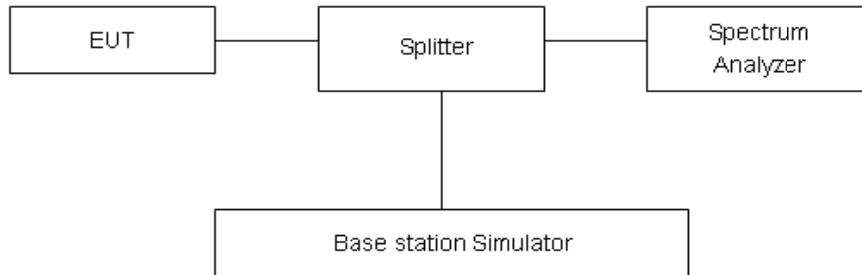
RBW is set to 10 kHz (0.15 MHz~ 30 MHz)

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

RBW is set to 1000 kHz (above 1000MHz)

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

#### Test setup



#### Limits

Rule Part 22.917(a) 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
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#### 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-20GHz	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

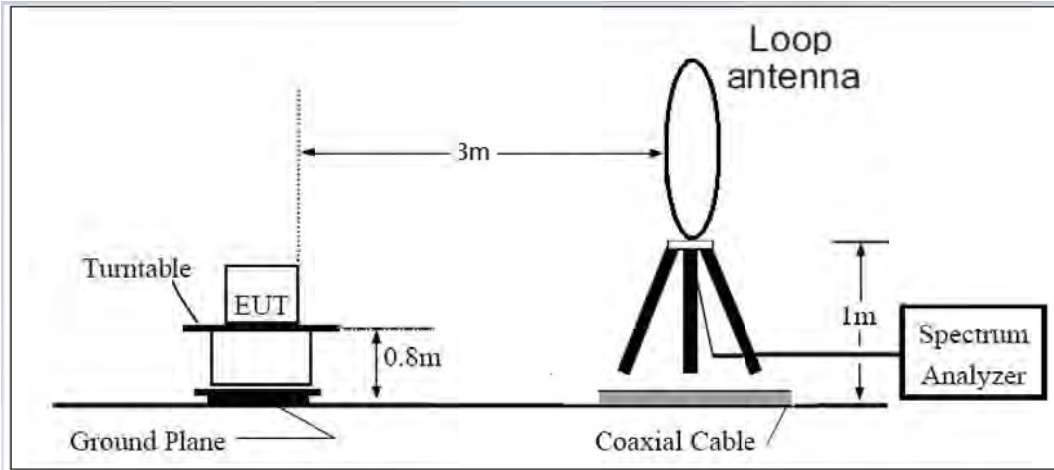
1. The testing follows FCC KDB 971168 v03r01 Section 5.8 and ANSI C63.26 (2015).
2. Below 1GHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable 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 dB) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP

= EIRP-2.15dB.

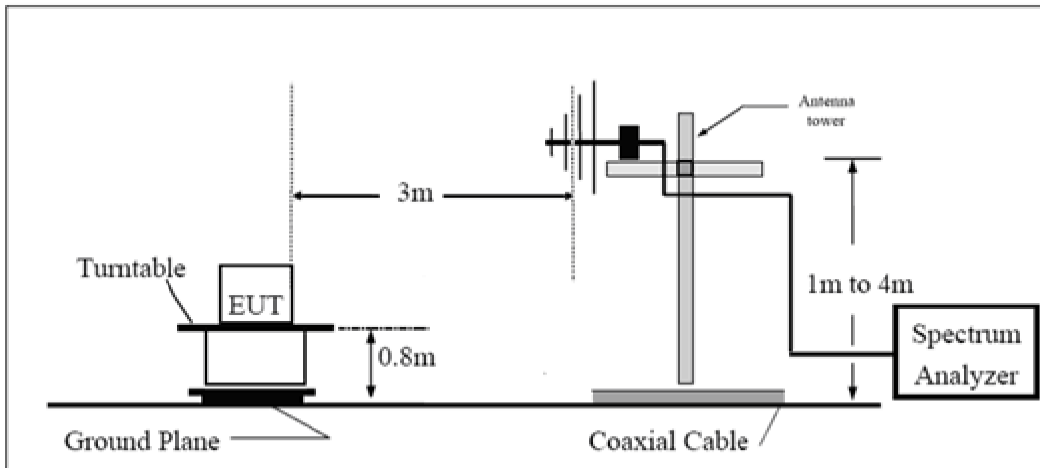
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

**Test setup**

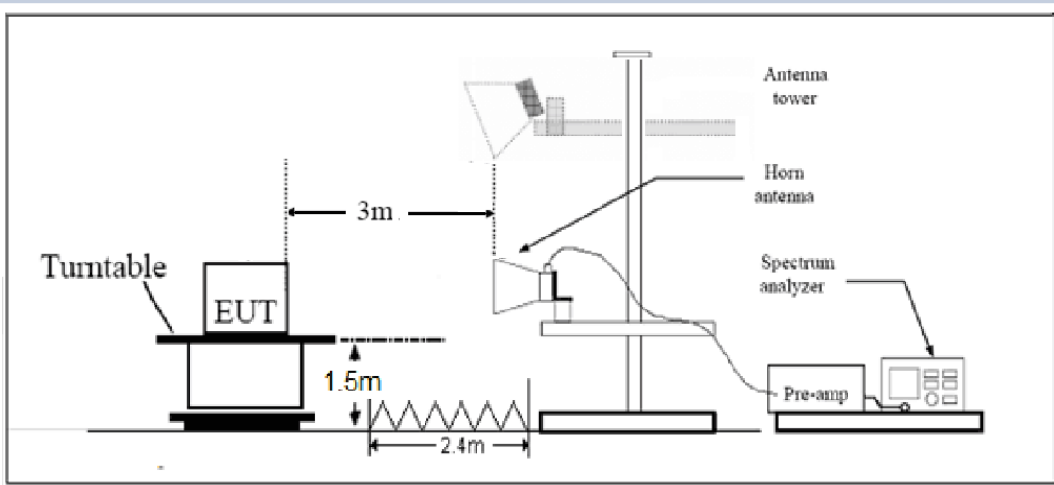
**9KHz ~ 30MHz**



**30MHz ~ 1GHz**



**Above 1GHz**



Note: Area side:2.4mX3.6m



### Limits

Rule Part 22.917(a) 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
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### 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.

## 6. Test Result

### 6.1. RF Power Output and Effective Radiated Power

GSM 850		Maximum Output Power (dBm)			Main Antenna ERP (dBm)			Second Antenna ERP (dBm)		
		Channel 128	Channel 190	Channel 251	Channel 128	Channel 190	Channel 251	Channel 128	Channel 190	Channel 251
		824.2 (MHz)	836.6 (MHz)	848.8 (MHz)	824.2 (MHz)	836.6 (MHz)	848.8 (MHz)	824.2 (MHz)	836.6 (MHz)	848.8 (MHz)
GSM(GMSK)	Results	33.46	33.60	33.35	26.21	26.35	26.10	24.31	24.45	24.20
GPRS (GMSK)	1TXslot	33.13	33.44	33.15	25.88	26.19	25.90	23.98	24.29	24.00
	2TXslots	29.31	30.14	29.75	22.06	22.89	22.50	20.16	20.99	20.60
	3TXslots	27.08	27.25	27.21	19.83	20.00	19.96	17.93	18.10	18.06
	4TXslots	25.30	25.54	25.60	18.05	18.29	18.35	16.15	16.39	16.45
EGPRS (8PSK)	1TXslot	26.28	26.60	26.10	19.03	19.35	18.85	17.13	17.45	16.95
	2TXslots	23.90	24.21	23.97	16.65	16.96	16.72	14.75	15.06	14.82
	3TXslots	21.58	21.87	21.78	14.33	14.62	14.53	12.43	12.72	12.63
	4TXslots	20.50	20.78	20.81	13.25	13.53	13.56	11.35	11.63	11.66

WCDMA Band V		Maximum Output Power (dBm)			Main Antenna ERP (dBm)			Second Antenna ERP (dBm)		
		Channel 4132	Channel 4183	Channel 4233	Channel 4132	Channel 4183	Channel 4233	Channel 4132	Channel 4183	Channel 4233
		826.4 (MHz)	836.6 (MHz)	846.6 (MHz)	826.4 (MHz)	836.6 (MHz)	846.6 (MHz)	826.4 (MHz)	836.6 (MHz)	846.6 (MHz)
RMC		24.20	23.88	22.73	17.05	16.73	15.58	16.95	16.63	15.48
AMR		24.32	23.98	22.71	17.17	16.83	15.56	17.07	16.73	15.46
HSDPA	Sub - Test 1	23.48	22.98	22.07	16.33	15.83	14.92	16.23	15.73	14.82
	Sub - Test 2	23.50	23.18	21.91	16.35	16.03	14.76	16.25	15.93	14.66
	Sub - Test 3	22.92	22.64	21.37	15.77	15.49	14.22	15.67	15.39	14.12
	Sub - Test 4	22.84	22.48	21.53	15.69	15.33	14.38	15.59	15.23	14.28
HSUPA	Sub - Test 1	23.36	23.08	21.81	16.21	15.93	14.66	16.11	15.83	14.56
	Sub - Test 2	21.46	21.02	19.89	14.31	13.87	12.74	14.21	13.77	12.64
	Sub - Test 3	22.50	22.22	20.79	15.35	15.07	13.64	15.25	14.97	13.54
	Sub - Test 4	21.26	20.96	19.79	14.11	13.81	12.64	14.01	13.71	12.54
	Sub - Test 5	23.24	23.14	21.83	16.09	15.99	14.68	15.99	15.89	14.58
DC-HSDPA	Sub - Test 1	23.22	22.76	21.73	16.07	15.61	14.58	15.97	15.51	14.48
	Sub - Test 2	23.06	22.92	21.79	15.91	15.77	14.64	15.81	15.67	14.54
	Sub - Test 3	22.64	22.30	21.39	15.49	15.15	14.24	15.39	15.05	14.14
	Sub - Test 4	22.76	22.22	21.27	15.61	15.07	14.12	15.51	14.97	14.02



LTE Band 5				Maximum Output Power (dBm)			Main Antenna ERP (dBm)			Second Antenna ERP (dBm)		
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)								
				20407 /824.7	20525 /836.5	20643 /848.3	20407 /824.7	20525 /836.5	20643 /848.3	20407 /824.7	20525 /836.5	20643 /848.3
1.4MHz	QPSK	1	0	23.97	24.25	23.88	16.62	16.90	16.53	16.12	16.40	16.03
		1	2	23.86	23.92	23.81	16.51	16.57	16.46	16.01	16.07	15.96
		1	5	24.23	24.18	24.03	16.88	16.83	16.68	16.38	16.33	16.18
		3	0	23.77	23.85	23.78	16.42	16.50	16.43	15.92	16.00	15.93
		3	2	23.78	23.84	23.91	16.43	16.49	16.56	15.93	15.99	16.06
		3	3	23.87	23.88	23.77	16.52	16.53	16.42	16.02	16.03	15.92
		6	0	22.86	22.87	22.90	15.51	15.52	15.55	15.01	15.02	15.05
	16QAM	1	0	23.36	23.65	23.53	16.01	16.30	16.18	15.51	15.80	15.68
		1	2	23.17	23.24	23.30	15.82	15.89	15.95	15.32	15.39	15.45
		1	5	23.23	23.33	23.50	15.88	15.98	16.15	15.38	15.48	15.65
		3	0	22.93	22.73	23.02	15.58	15.38	15.67	15.08	14.88	15.17
		3	2	22.99	22.77	23.04	15.64	15.42	15.69	15.14	14.92	15.19
		3	3	22.48	22.83	22.70	15.13	15.48	15.35	14.63	14.98	14.85
		6	0	22.05	21.92	22.06	14.70	14.57	14.71	14.20	14.07	14.21
	64QAM	1	0	21.91	22.29	22.10	14.56	14.94	14.75	14.06	14.44	14.25
		1	2	22.25	22.18	22.16	14.90	14.83	14.81	14.40	14.33	14.31
		1	5	22.13	22.12	22.07	14.78	14.77	14.72	14.28	14.27	14.22
		3	0	21.86	21.79	22.00	14.51	14.44	14.65	14.01	13.94	14.15
		3	2	22.15	21.86	22.13	14.80	14.51	14.78	14.30	14.01	14.28
		3	3	22.01	21.87	21.98	14.66	14.52	14.63	14.16	14.02	14.13
		6	0	21.04	20.95	21.18	13.69	13.60	13.83	13.19	13.10	13.33
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)								
				20415/82 5.5	20525/83 6.5	20635/84 7.5	20415/82 5.5	20525/83 6.5	20635/84 7.5	20415/82 5.5	20525/83 6.5	20635/84 7.5
3MHz	QPSK	1	0	23.98	24.28	23.90	16.63	16.93	16.55	16.13	16.43	16.05
		1	7	23.85	23.96	23.86	16.50	16.61	16.51	16.00	16.11	16.01
		1	14	24.25	24.22	24.06	16.90	16.87	16.71	16.40	16.37	16.21
		8	0	22.87	22.97	22.91	15.52	15.62	15.56	15.02	15.12	15.06
		8	4	22.91	22.95	23.02	15.56	15.60	15.67	15.06	15.10	15.17
		8	7	22.97	23.01	22.88	15.62	15.66	15.53	15.12	15.16	15.03
		15	0	22.90	22.92	22.95	15.55	15.57	15.60	15.05	15.07	15.10
	16QAM	1	0	23.40	23.66	23.55	16.05	16.31	16.20	15.55	15.81	15.70
		1	7	23.21	23.26	23.34	15.86	15.91	15.99	15.36	15.41	15.49
		1	14	23.25	23.37	23.52	15.90	16.02	16.17	15.40	15.52	15.67
		8	0	22.05	21.87	22.15	14.70	14.52	14.80	14.20	14.02	14.30
		8	4	22.09	21.89	22.15	14.74	14.54	14.80	14.24	14.04	14.30
		8	7	21.58	21.95	21.83	14.23	14.60	14.48	13.73	14.10	13.98



	64QAM	15	0	22.09	21.97	22.08	14.74	14.62	14.73	14.24	14.12	14.23	
		1	0	21.93	22.30	22.12	14.58	14.95	14.77	14.08	14.45	14.27	
		1	7	22.28	22.20	22.18	14.93	14.85	14.83	14.43	14.35	14.33	
		1	14	22.15	22.11	22.09	14.80	14.76	14.74	14.30	14.26	14.24	
		8	0	20.98	20.93	21.13	13.63	13.58	13.78	13.13	13.08	13.28	
		8	4	21.25	20.98	21.24	13.90	13.63	13.89	13.40	13.13	13.39	
		8	7	21.11	20.99	21.11	13.76	13.64	13.76	13.26	13.14	13.26	
		15	0	21.08	21.00	21.20	13.73	13.65	13.85	13.23	13.15	13.35	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)									
				20425/82	20525/83	20625/84	20425/82	20525/83	20625/84	20425/82	20525/83	20625/84	
				6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	
5MHz	QPSK	1	0	23.97	24.24	23.88	16.62	16.89	16.53	16.12	16.39	16.03	
		1	13	23.83	23.95	23.83	16.48	16.60	16.48	15.98	16.10	15.98	
		1	24	24.22	24.17	24.02	16.87	16.82	16.67	16.37	16.32	16.17	
		12	0	22.85	22.93	22.88	15.50	15.58	15.53	15.00	15.08	15.03	
		12	6	22.88	22.90	22.98	15.53	15.55	15.63	15.03	15.05	15.13	
		12	13	22.94	22.98	22.84	15.59	15.63	15.49	15.09	15.13	14.99	
		25	0	22.88	22.88	22.90	15.53	15.53	15.55	15.03	15.03	15.05	
	16QAM	1	0	23.38	23.64	23.53	16.03	16.29	16.18	15.53	15.79	15.68	
		1	13	23.19	23.23	23.32	15.84	15.88	15.97	15.34	15.38	15.47	
		1	24	23.23	23.33	23.49	15.88	15.98	16.14	15.38	15.48	15.64	
		12	0	22.02	21.85	22.12	14.67	14.50	14.77	14.17	14.00	14.27	
		12	6	22.06	21.84	22.11	14.71	14.49	14.76	14.21	13.99	14.26	
		12	13	21.56	21.91	21.80	14.21	14.56	14.45	13.71	14.06	13.95	
		25	0	22.06	21.92	22.04	14.71	14.57	14.69	14.21	14.07	14.19	
	64QAM	1	0	21.88	22.28	22.10	14.53	14.93	14.75	14.03	14.43	14.25	
		1	13	22.26	22.17	22.16	14.91	14.82	14.81	14.41	14.32	14.31	
		1	24	22.16	22.10	22.10	14.81	14.75	14.75	14.31	14.25	14.25	
		12	0	20.97	20.95	21.14	13.62	13.60	13.79	13.12	13.10	13.29	
		12	6	21.23	20.95	21.23	13.88	13.60	13.88	13.38	13.10	13.38	
		12	13	21.09	20.95	21.08	13.74	13.60	13.73	13.24	13.10	13.23	
		25	0	21.05	20.95	21.16	13.70	13.60	13.81	13.20	13.10	13.31	
	Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)								
					20450/82	20525/83	20600/84	20450/82	20525/83	20600/84	20450/82	20525/83	20600/84
					9	6.5	4	9	6.5	4	9	6.5	4
10MHz	QPSK	1	0	23.94	24.20	23.85	16.59	16.85	16.50	16.09	16.35	16.00	
		1	25	23.82	23.91	23.81	16.47	16.56	16.46	15.97	16.06	15.96	
		1	49	24.20	24.16	23.99	16.85	16.81	16.64	16.35	16.31	16.14	
		25	0	22.82	22.88	22.84	15.47	15.53	15.49	14.97	15.03	14.99	
		25	13	22.86	22.86	22.95	15.51	15.51	15.60	15.01	15.01	15.10	
		25	25	22.91	22.93	22.80	15.56	15.58	15.45	15.06	15.08	14.95	
		50	0	22.85	22.83	22.86	15.50	15.48	15.51	15.00	14.98	15.01	
	16QAM	1	0	23.35	23.60	23.48	16.00	16.25	16.13	15.50	15.75	15.63	



		1	25	23.16	23.21	23.28	15.81	15.86	15.93	15.31	15.36	15.43
		1	49	23.20	23.30	23.47	15.85	15.95	16.12	15.35	15.45	15.62
		25	0	21.99	21.81	22.09	14.64	14.46	14.74	14.14	13.96	14.24
		25	13	22.03	21.82	22.08	14.68	14.47	14.73	14.18	13.97	14.23
		25	25	21.53	21.86	21.76	14.18	14.51	14.41	13.68	14.01	13.91
		50	0	22.04	21.88	22.01	14.69	14.53	14.66	14.19	14.03	14.16
	64QAM	1	0	21.86	22.24	22.05	14.51	14.89	14.70	14.01	14.39	14.20
		1	25	22.22	22.15	22.12	14.87	14.80	14.77	14.37	14.30	14.27
		1	49	22.10	22.04	22.04	14.75	14.69	14.69	14.25	14.19	14.19
		25	0	20.92	20.87	21.07	13.57	13.52	13.72	13.07	13.02	13.22
		25	13	21.19	20.91	21.17	13.84	13.56	13.82	13.34	13.06	13.32
		25	25	21.06	20.90	21.04	13.71	13.55	13.69	13.21	13.05	13.19
		50	0	21.03	20.91	21.13	13.68	13.56	13.78	13.18	13.06	13.28

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Maximum Output Power (dBm)	Main Antenna ERP (dBm)	Second Antenna ERP (dBm)
LTE Band26	1.4	26797	1	#0	QPSK	23.740	16.590	16.090
LTE Band26	1.4	26797	1	#Mid	QPSK	23.810	16.660	16.160
LTE Band26	1.4	26797	1	#Max	QPSK	23.620	16.470	15.970
LTE Band26	1.4	26797	3	#0	QPSK	23.720	16.570	16.070
LTE Band26	1.4	26797	3	#Mid	QPSK	23.750	16.600	16.100
LTE Band26	1.4	26797	3	#Max	QPSK	23.720	16.570	16.070
LTE Band26	1.4	26797	6	#0	QPSK	22.690	15.540	15.040
LTE Band26	1.4	26797	1	#0	16QAM	22.660	15.510	15.010
LTE Band26	1.4	26797	1	#Mid	16QAM	22.770	15.620	15.120
LTE Band26	1.4	26797	1	#Max	16QAM	22.630	15.480	14.980
LTE Band26	1.4	26797	3	#0	16QAM	22.860	15.710	15.210
LTE Band26	1.4	26797	3	#Mid	16QAM	22.890	15.740	15.240
LTE Band26	1.4	26797	3	#Max	16QAM	22.860	15.710	15.210
LTE Band26	1.4	26797	6	#0	16QAM	21.760	14.610	14.110
LTE Band26	1.4	26915	1	#0	QPSK	23.660	16.510	16.010
LTE Band26	1.4	26915	1	#Mid	QPSK	23.800	16.650	16.150
LTE Band26	1.4	26915	1	#Max	QPSK	23.610	16.460	15.960
LTE Band26	1.4	26915	3	#0	QPSK	23.750	16.600	16.100
LTE Band26	1.4	26915	3	#Mid	QPSK	23.730	16.580	16.080
LTE Band26	1.4	26915	3	#Max	QPSK	23.690	16.540	16.040
LTE Band26	1.4	26915	6	#0	QPSK	22.680	15.530	15.030
LTE Band26	1.4	26915	1	#0	16QAM	22.750	15.600	15.100
LTE Band26	1.4	26915	1	#Mid	16QAM	22.920	15.770	15.270
LTE Band26	1.4	26915	1	#Max	16QAM	22.810	15.660	15.160
LTE Band26	1.4	26915	3	#0	16QAM	22.690	15.540	15.040





LTE Band26	1.4	26915	3	#Mid	16QAM	22.720	15.570	15.070
LTE Band26	1.4	26915	3	#Max	16QAM	22.740	15.590	15.090
LTE Band26	1.4	26915	6	#0	16QAM	21.630	14.480	13.980
LTE Band26	1.4	27033	1	#0	QPSK	23.610	16.460	15.960
LTE Band26	1.4	27033	1	#Mid	QPSK	23.700	16.550	16.050
LTE Band26	1.4	27033	1	#Max	QPSK	23.660	16.510	16.010
LTE Band26	1.4	27033	3	#0	QPSK	23.630	16.480	15.980
LTE Band26	1.4	27033	3	#Mid	QPSK	23.620	16.470	15.970
LTE Band26	1.4	27033	3	#Max	QPSK	23.550	16.400	15.900
LTE Band26	1.4	27033	6	#0	QPSK	22.630	15.480	14.980
LTE Band26	1.4	27033	1	#0	16QAM	22.520	15.370	14.870
LTE Band26	1.4	27033	1	#Mid	16QAM	22.590	15.440	14.940
LTE Band26	1.4	27033	1	#Max	16QAM	22.560	15.410	14.910
LTE Band26	1.4	27033	3	#0	16QAM	22.680	15.530	15.030
LTE Band26	1.4	27033	3	#Mid	16QAM	22.610	15.460	14.960
LTE Band26	1.4	27033	3	#Max	16QAM	22.660	15.510	15.010
LTE Band26	1.4	27033	6	#0	16QAM	21.630	14.480	13.980
LTE Band26	3	26805	1	#0	QPSK	23.680	16.530	16.030
LTE Band26	3	26805	1	#Mid	QPSK	23.670	16.520	16.020
LTE Band26	3	26805	1	#Max	QPSK	23.620	16.470	15.970
LTE Band26	3	26805	8	#0	QPSK	22.730	15.580	15.080
LTE Band26	3	26805	8	#Mid	QPSK	22.710	15.560	15.060
LTE Band26	3	26805	8	#Max	QPSK	22.700	15.550	15.050
LTE Band26	3	26805	15	#0	QPSK	22.710	15.560	15.060
LTE Band26	3	26805	1	#0	16QAM	22.860	15.710	15.210
LTE Band26	3	26805	1	#Mid	16QAM	22.940	15.790	15.290
LTE Band26	3	26805	1	#Max	16QAM	22.990	15.840	15.340
LTE Band26	3	26805	8	#0	16QAM	21.740	14.590	14.090
LTE Band26	3	26805	8	#Mid	16QAM	21.760	14.610	14.110
LTE Band26	3	26805	8	#Max	16QAM	21.730	14.580	14.080
LTE Band26	3	26805	15	#0	16QAM	21.710	14.560	14.060
LTE Band26	3	26915	1	#0	QPSK	23.680	16.530	16.030
LTE Band26	3	26915	1	#Mid	QPSK	23.700	16.550	16.050
LTE Band26	3	26915	1	#Max	QPSK	23.600	16.450	15.950
LTE Band26	3	26915	8	#0	QPSK	22.690	15.540	15.040
LTE Band26	3	26915	8	#Mid	QPSK	22.680	15.530	15.030
LTE Band26	3	26915	8	#Max	QPSK	22.700	15.550	15.050
LTE Band26	3	26915	15	#0	QPSK	22.760	15.610	15.110
LTE Band26	3	26915	1	#0	16QAM	22.830	15.680	15.180
LTE Band26	3	26915	1	#Mid	16QAM	22.910	15.760	15.260
LTE Band26	3	26915	1	#Max	16QAM	22.760	15.610	15.110
LTE Band26	3	26915	8	#0	16QAM	21.720	14.570	14.070
LTE Band26	3	26915	8	#Mid	16QAM	21.730	14.580	14.080



LTE Band26	3	26915	8	#Max	16QAM	21.710	14.560	14.060
LTE Band26	3	26915	15	#0	16QAM	21.660	14.510	14.010
LTE Band26	3	27025	1	#0	QPSK	23.610	16.460	15.960
LTE Band26	3	27025	1	#Mid	QPSK	23.710	16.560	16.060
LTE Band26	3	27025	1	#Max	QPSK	23.670	16.520	16.020
LTE Band26	3	27025	8	#0	QPSK	22.640	15.490	14.990
LTE Band26	3	27025	8	#Mid	QPSK	22.630	15.480	14.980
LTE Band26	3	27025	8	#Max	QPSK	22.610	15.460	14.960
LTE Band26	3	27025	15	#0	QPSK	22.660	15.510	15.010
LTE Band26	3	27025	1	#0	16QAM	22.550	15.400	14.900
LTE Band26	3	27025	1	#Mid	16QAM	22.580	15.430	14.930
LTE Band26	3	27025	1	#Max	16QAM	22.440	15.290	14.790
LTE Band26	3	27025	8	#0	16QAM	21.630	14.480	13.980
LTE Band26	3	27025	8	#Mid	16QAM	21.630	14.480	13.980
LTE Band26	3	27025	8	#Max	16QAM	21.630	14.480	13.980
LTE Band26	3	27025	15	#0	16QAM	21.630	14.480	13.980
LTE Band26	5	26815	1	#0	QPSK	23.690	16.540	16.040
LTE Band26	5	26815	1	#Mid	QPSK	23.710	16.560	16.060
LTE Band26	5	26815	1	#Max	QPSK	23.660	16.510	16.010
LTE Band26	5	26815	12	#0	QPSK	22.680	15.530	15.030
LTE Band26	5	26815	12	#Mid	QPSK	22.690	15.540	15.040
LTE Band26	5	26815	12	#Max	QPSK	22.650	15.500	15.000
LTE Band26	5	26815	25	#0	QPSK	22.710	15.560	15.060
LTE Band26	5	26815	1	#0	16QAM	22.970	15.820	15.320
LTE Band26	5	26815	1	#Mid	16QAM	23.020	15.870	15.370
LTE Band26	5	26815	1	#Max	16QAM	22.980	15.830	15.330
LTE Band26	5	26815	12	#0	16QAM	21.680	14.530	14.030
LTE Band26	5	26815	12	#Mid	16QAM	21.700	14.550	14.050
LTE Band26	5	26815	12	#Max	16QAM	21.660	14.510	14.010
LTE Band26	5	26815	25	#0	16QAM	21.720	14.570	14.070
LTE Band26	5	26915	1	#0	QPSK	23.830	16.680	16.180
LTE Band26	5	26915	1	#Mid	QPSK	23.750	16.600	16.100
LTE Band26	5	26915	1	#Max	QPSK	23.690	16.540	16.040
LTE Band26	5	26915	12	#0	QPSK	22.750	15.600	15.100
LTE Band26	5	26915	12	#Mid	QPSK	22.740	15.590	15.090
LTE Band26	5	26915	12	#Max	QPSK	22.730	15.580	15.080
LTE Band26	5	26915	25	#0	QPSK	22.680	15.530	15.030
LTE Band26	5	26915	1	#0	16QAM	23.070	15.920	15.420
LTE Band26	5	26915	1	#Mid	16QAM	22.970	15.820	15.320
LTE Band26	5	26915	1	#Max	16QAM	22.920	15.770	15.270
LTE Band26	5	26915	12	#0	16QAM	21.740	14.590	14.090
LTE Band26	5	26915	12	#Mid	16QAM	21.730	14.580	14.080
LTE Band26	5	26915	12	#Max	16QAM	21.700	14.550	14.050



LTE Band26	5	26915	25	#0	16QAM	21.670	14.520	14.020
LTE Band26	5	27015	1	#0	QPSK	23.560	16.410	15.910
LTE Band26	5	27015	1	#Mid	QPSK	23.540	16.390	15.890
LTE Band26	5	27015	1	#Max	QPSK	23.410	16.260	15.760
LTE Band26	5	27015	12	#0	QPSK	22.690	15.540	15.040
LTE Band26	5	27015	12	#Mid	QPSK	22.700	15.550	15.050
LTE Band26	5	27015	12	#Max	QPSK	22.670	15.520	15.020
LTE Band26	5	27015	25	#0	QPSK	22.680	15.530	15.030
LTE Band26	5	27015	1	#0	16QAM	22.980	15.830	15.330
LTE Band26	5	27015	1	#Mid	16QAM	23.000	15.850	15.350
LTE Band26	5	27015	1	#Max	16QAM	22.880	15.730	15.230
LTE Band26	5	27015	12	#0	16QAM	21.750	14.600	14.100
LTE Band26	5	27015	12	#Mid	16QAM	21.720	14.570	14.070
LTE Band26	5	27015	12	#Max	16QAM	21.730	14.580	14.080
LTE Band26	5	27015	25	#0	16QAM	21.670	14.520	14.020
LTE Band26	10	26840	1	#0	QPSK	23.890	16.740	16.240
LTE Band26	10	26840	1	#Mid	QPSK	23.650	16.500	16.000
LTE Band26	10	26840	1	#Max	QPSK	23.810	16.660	16.160
LTE Band26	10	26840	25	#0	QPSK	22.770	15.620	15.120
LTE Band26	10	26840	25	#Mid	QPSK	22.780	15.630	15.130
LTE Band26	10	26840	25	#Max	QPSK	22.700	15.550	15.050
LTE Band26	10	26840	50	#0	QPSK	22.760	15.610	15.110
LTE Band26	10	26840	1	#0	16QAM	23.220	16.070	15.570
LTE Band26	10	26840	1	#Mid	16QAM	22.980	15.830	15.330
LTE Band26	10	26840	1	#Max	16QAM	23.160	16.010	15.510
LTE Band26	10	26840	25	#0	16QAM	21.870	14.720	14.220
LTE Band26	10	26840	25	#Mid	16QAM	21.870	14.720	14.220
LTE Band26	10	26840	25	#Max	16QAM	21.850	14.700	14.200
LTE Band26	10	26840	50	#0	16QAM	21.770	14.620	14.120
LTE Band26	10	26915	1	#0	QPSK	23.990	16.840	16.340
LTE Band26	10	26915	1	#Mid	QPSK	23.720	16.570	16.070
LTE Band26	10	26915	1	#Max	QPSK	23.920	16.770	16.270
LTE Band26	10	26915	25	#0	QPSK	22.810	15.660	15.160
LTE Band26	10	26915	25	#Mid	QPSK	22.820	15.670	15.170
LTE Band26	10	26915	25	#Max	QPSK	22.800	15.650	15.150
LTE Band26	10	26915	50	#0	QPSK	22.820	15.670	15.170
LTE Band26	10	26915	1	#0	16QAM	23.150	16.000	15.500
LTE Band26	10	26915	1	#Mid	16QAM	22.990	15.840	15.340
LTE Band26	10	26915	1	#Max	16QAM	23.100	15.950	15.450
LTE Band26	10	26915	25	#0	16QAM	21.890	14.740	14.240
LTE Band26	10	26915	25	#Mid	16QAM	21.890	14.740	14.240
LTE Band26	10	26915	25	#Max	16QAM	21.830	14.680	14.180
LTE Band26	10	26915	50	#0	16QAM	21.830	14.680	14.180



LTE Band26	10	26990	1	#0	QPSK	23.880	16.730	16.230
LTE Band26	10	26990	1	#Mid	QPSK	23.640	16.490	15.990
LTE Band26	10	26990	1	#Max	QPSK	23.830	16.680	16.180
LTE Band26	10	26990	25	#0	QPSK	22.730	15.580	15.080
LTE Band26	10	26990	25	#Mid	QPSK	22.760	15.610	15.110
LTE Band26	10	26990	25	#Max	QPSK	22.770	15.620	15.120
LTE Band26	10	26990	50	#0	QPSK	22.750	15.600	15.100
LTE Band26	10	26990	1	#0	16QAM	22.940	15.790	15.290
LTE Band26	10	26990	1	#Mid	16QAM	22.520	15.370	14.870
LTE Band26	10	26990	1	#Max	16QAM	22.810	15.660	15.160
LTE Band26	10	26990	25	#0	16QAM	21.750	14.600	14.100
LTE Band26	10	26990	25	#Mid	16QAM	21.740	14.590	14.090
LTE Band26	10	26990	25	#Max	16QAM	21.710	14.560	14.060
LTE Band26	10	26990	50	#0	16QAM	21.770	14.620	14.120
LTE Band26	15	26865	1	#0	QPSK	23.730	16.580	16.080
LTE Band26	15	26865	1	#Mid	QPSK	23.660	16.510	16.010
LTE Band26	15	26865	1	#Max	QPSK	23.790	16.640	16.140
LTE Band26	15	26865	36	#0	QPSK	22.770	15.620	15.120
LTE Band26	15	26865	36	#Mid	QPSK	22.770	15.620	15.120
LTE Band26	15	26865	36	#Max	QPSK	22.420	15.270	14.770
LTE Band26	15	26865	75	#0	QPSK	22.600	15.450	14.950
LTE Band26	15	26865	1	#0	16QAM	23.010	15.860	15.360
LTE Band26	15	26865	1	#Mid	16QAM	22.930	15.780	15.280
LTE Band26	15	26865	1	#Max	16QAM	23.080	15.930	15.430
LTE Band26	15	26865	36	#0	16QAM	21.800	14.650	14.150
LTE Band26	15	26865	36	#Mid	16QAM	21.800	14.650	14.150
LTE Band26	15	26865	36	#Max	16QAM	21.490	14.340	13.840
LTE Band26	15	26865	75	#0	16QAM	21.590	14.440	13.940
LTE Band26	15	26915	1	#0	QPSK	23.740	16.590	16.090
LTE Band26	15	26915	1	#Mid	QPSK	23.510	16.360	15.860
LTE Band26	15	26915	1	#Max	QPSK	23.780	16.630	16.130
LTE Band26	15	26915	36	#0	QPSK	22.820	15.670	15.170
LTE Band26	15	26915	36	#Mid	QPSK	22.840	15.690	15.190
LTE Band26	15	26915	36	#Max	QPSK	22.470	15.320	14.820
LTE Band26	15	26915	75	#0	QPSK	22.620	15.470	14.970
LTE Band26	15	26915	1	#0	16QAM	22.910	15.760	15.260
LTE Band26	15	26915	1	#Mid	16QAM	22.670	15.520	15.020
LTE Band26	15	26915	1	#Max	16QAM	23.090	15.940	15.440
LTE Band26	15	26915	36	#0	16QAM	21.840	14.690	14.190
LTE Band26	15	26915	36	#Mid	16QAM	21.820	14.670	14.170
LTE Band26	15	26915	36	#Max	16QAM	21.490	14.340	13.840
LTE Band26	15	26915	75	#0	16QAM	21.660	14.510	14.010
LTE Band26	15	26965	1	#0	QPSK	23.780	16.630	16.130



LTE Band26	15	26965	1	#Mid	QPSK	23.580	16.430	15.930
LTE Band26	15	26965	1	#Max	QPSK	23.770	16.620	16.120
LTE Band26	15	26965	36	#0	QPSK	22.800	15.650	15.150
LTE Band26	15	26965	36	#Mid	QPSK	22.830	15.680	15.180
LTE Band26	15	26965	36	#Max	QPSK	22.510	15.360	14.860
LTE Band26	15	26965	75	#0	QPSK	22.620	15.470	14.970
LTE Band26	15	26965	1	#0	16QAM	22.790	15.640	15.140
LTE Band26	15	26965	1	#Mid	16QAM	22.610	15.460	14.960
LTE Band26	15	26965	1	#Max	16QAM	22.880	15.730	15.230
LTE Band26	15	26965	36	#0	16QAM	21.830	14.680	14.180
LTE Band26	15	26965	36	#Mid	16QAM	21.830	14.680	14.180
LTE Band26	15	26965	36	#Max	16QAM	21.500	14.350	13.850
LTE Band26	15	26965	75	#0	16QAM	21.620	14.470	13.970
LTE Band26	1.4	26797	1	#0	64QAM	22.11	14.96	14.46
LTE Band26	1.4	26797	1	#Mid	64QAM	22.22	15.07	14.57
LTE Band26	1.4	26797	1	#Max	64QAM	22.07	14.92	14.42
LTE Band26	1.4	26797	3	#0	64QAM	22.36	15.21	14.71
LTE Band26	1.4	26797	3	#Mid	64QAM	22.33	15.18	14.68
LTE Band26	1.4	26797	3	#Max	64QAM	22.36	15.21	14.71
LTE Band26	1.4	26797	6	#0	64QAM	21.20	14.05	13.55
LTE Band26	1.4	26915	1	#0	64QAM	22.16	15.01	14.51
LTE Band26	1.4	26915	1	#Mid	64QAM	22.34	15.19	14.69
LTE Band26	1.4	26915	1	#Max	64QAM	22.22	15.07	14.57
LTE Band26	1.4	26915	3	#0	64QAM	22.12	14.97	14.47
LTE Band26	1.4	26915	3	#Mid	64QAM	22.12	14.97	14.47
LTE Band26	1.4	26915	3	#Max	64QAM	22.10	14.95	14.45
LTE Band26	1.4	26915	6	#0	64QAM	21.15	14.00	13.50
LTE Band26	1.4	27033	1	#0	64QAM	22.07	14.92	14.42
LTE Band26	1.4	27033	1	#Mid	64QAM	22.03	14.88	14.38
LTE Band26	1.4	27033	1	#Max	64QAM	22.07	14.92	14.42
LTE Band26	1.4	27033	3	#0	64QAM	22.15	15.00	14.50
LTE Band26	1.4	27033	3	#Mid	64QAM	22.08	14.93	14.43
LTE Band26	1.4	27033	3	#Max	64QAM	22.13	14.98	14.48
LTE Band26	1.4	27033	6	#0	64QAM	21.10	13.95	13.45
LTE Band26	3	26805	1	#0	64QAM	22.38	15.23	14.73
LTE Band26	3	26805	1	#Mid	64QAM	22.42	15.27	14.77
LTE Band26	3	26805	1	#Max	64QAM	22.36	15.21	14.71
LTE Band26	3	26805	8	#0	64QAM	21.21	14.06	13.56
LTE Band26	3	26805	8	#Mid	64QAM	21.21	14.06	13.56
LTE Band26	3	26805	8	#Max	64QAM	21.16	14.01	13.51
LTE Band26	3	26805	15	#0	64QAM	21.07	13.92	13.42
LTE Band26	3	26915	1	#0	64QAM	22.32	15.17	14.67
LTE Band26	3	26915	1	#Mid	64QAM	22.34	15.19	14.69



LTE Band26	3	26915	1	#Max	64QAM	22.22	15.07	14.57
LTE Band26	3	26915	8	#0	64QAM	21.18	14.03	13.53
LTE Band26	3	26915	8	#Mid	64QAM	21.18	14.03	13.53
LTE Band26	3	26915	8	#Max	64QAM	21.21	14.06	13.56
LTE Band26	3	26915	15	#0	64QAM	21.14	13.99	13.49
LTE Band26	3	27025	1	#0	64QAM	22.04	14.89	14.39
LTE Band26	3	27025	1	#Mid	64QAM	22.00	14.85	14.35
LTE Band26	3	27025	1	#Max	64QAM	22.04	14.89	14.39
LTE Band26	3	27025	8	#0	64QAM	21.10	13.95	13.45
LTE Band26	3	27025	8	#Mid	64QAM	21.10	13.95	13.45
LTE Band26	3	27025	8	#Max	64QAM	21.11	13.96	13.46
LTE Band26	3	27025	15	#0	64QAM	21.05	13.90	13.40
LTE Band26	5	26815	1	#0	64QAM	22.49	15.34	14.84
LTE Band26	5	26815	1	#Mid	64QAM	22.49	15.34	14.84
LTE Band26	5	26815	1	#Max	64QAM	22.43	15.28	14.78
LTE Band26	5	26815	12	#0	64QAM	21.13	13.98	13.48
LTE Band26	5	26815	12	#Mid	64QAM	21.15	14.00	13.50
LTE Band26	5	26815	12	#Max	64QAM	21.10	13.95	13.45
LTE Band26	5	26815	25	#0	64QAM	21.22	14.07	13.57
LTE Band26	5	26915	1	#0	64QAM	22.44	15.29	14.79
LTE Band26	5	26915	1	#Mid	64QAM	22.44	15.29	14.79
LTE Band26	5	26915	1	#Max	64QAM	22.38	15.23	14.73
LTE Band26	5	26915	12	#0	64QAM	21.18	14.03	13.53
LTE Band26	5	26915	12	#Mid	64QAM	21.16	14.01	13.51
LTE Band26	5	26915	12	#Max	64QAM	21.15	14.00	13.50
LTE Band26	5	26915	25	#0	64QAM	21.13	13.98	13.48
LTE Band26	5	27015	1	#0	64QAM	22.51	15.36	14.86
LTE Band26	5	27015	1	#Mid	64QAM	22.61	15.46	14.96
LTE Band26	5	27015	1	#Max	64QAM	22.51	15.36	14.86
LTE Band26	5	27015	12	#0	64QAM	21.21	14.06	13.56
LTE Band26	5	27015	12	#Mid	64QAM	21.22	14.07	13.57
LTE Band26	5	27015	12	#Max	64QAM	21.18	14.03	13.53
LTE Band26	5	27015	25	#0	64QAM	21.09	13.94	13.44
LTE Band26	10	26840	1	#0	64QAM	22.60	15.45	14.95
LTE Band26	10	26840	1	#Mid	64QAM	22.45	15.30	14.80
LTE Band26	10	26840	1	#Max	64QAM	22.59	15.44	14.94
LTE Band26	10	26840	25	#0	64QAM	21.30	14.15	13.65
LTE Band26	10	26840	25	#Mid	64QAM	21.31	14.16	13.66
LTE Band26	10	26840	25	#Max	64QAM	21.28	14.13	13.63
LTE Band26	10	26840	50	#0	64QAM	21.21	14.06	13.56
LTE Band26	10	26915	1	#0	64QAM	22.63	15.48	14.98
LTE Band26	10	26915	1	#Mid	64QAM	22.37	15.22	14.72
LTE Band26	10	26915	1	#Max	64QAM	22.49	15.34	14.84





LTE Band26	10	26915	25	#0	64QAM	21.34	14.19	13.69
LTE Band26	10	26915	25	#Mid	64QAM	21.34	14.19	13.69
LTE Band26	10	26915	25	#Max	64QAM	21.27	14.12	13.62
LTE Band26	10	26915	50	#0	64QAM	21.25	14.10	13.60
LTE Band26	10	26990	1	#0	64QAM	22.24	15.09	14.59
LTE Band26	10	26990	1	#Mid	64QAM	21.82	14.67	14.17
LTE Band26	10	26990	1	#Max	64QAM	22.20	15.05	14.55
LTE Band26	10	26990	25	#0	64QAM	21.19	14.04	13.54
LTE Band26	10	26990	25	#Mid	64QAM	21.19	14.04	13.54
LTE Band26	10	26990	25	#Max	64QAM	21.19	14.04	13.54
LTE Band26	10	26990	50	#0	64QAM	21.14	13.99	13.49
LTE Band26	15	26865	1	#0	64QAM	22.44	15.29	14.79
LTE Band26	15	26865	1	#Mid	64QAM	22.43	15.28	14.78
LTE Band26	15	26865	1	#Max	64QAM	22.53	15.38	14.88
LTE Band26	15	26865	36	#0	64QAM	21.25	14.10	13.60
LTE Band26	15	26865	36	#Mid	64QAM	21.23	14.08	13.58
LTE Band26	15	26865	36	#Max	64QAM	20.93	13.78	13.28
LTE Band26	15	26865	75	#0	64QAM	20.98	13.83	13.33
LTE Band26	15	26915	1	#0	64QAM	22.40	15.25	14.75
LTE Band26	15	26915	1	#Mid	64QAM	22.23	15.08	14.58
LTE Band26	15	26915	1	#Max	64QAM	22.52	15.37	14.87
LTE Band26	15	26915	36	#0	64QAM	21.29	14.14	13.64
LTE Band26	15	26915	36	#Mid	64QAM	21.27	14.12	13.62
LTE Band26	15	26915	36	#Max	64QAM	20.95	13.80	13.30
LTE Band26	15	26915	75	#0	64QAM	21.02	13.87	13.37
LTE Band26	15	26965	1	#0	64QAM	22.29	15.14	14.64
LTE Band26	15	26965	1	#Mid	64QAM	22.15	15.00	14.50
LTE Band26	15	26965	1	#Max	64QAM	22.23	15.08	14.58
LTE Band26	15	26965	36	#0	64QAM	21.28	14.13	13.63
LTE Band26	15	26965	36	#Mid	64QAM	21.27	14.12	13.62
LTE Band26	15	26965	36	#Max	64QAM	20.90	13.75	13.25
LTE Band26	15	26965	75	#0	64QAM	21.09	13.94	13.44



## 6.2. Occupied Bandwidth

Mode	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth(MHz)
GSM 850 (GMSK)	128	824.2	0.24272	0.3082
	190	836.6	0.24552	0.3120
	251	848.8	0.24094	0.3027
GPRS 850 (GMSK)	128	824.2	0.24243	0.2986
	190	836.6	0.24824	0.3086
	251	848.8	0.24323	0.3116
EGPRS 850 (8PSK)	128	824.2	0.24826	0.3130
	190	836.6	0.24871	0.3130
	251	848.8	0.24843	0.3056
WCDMA Band V (RMC)	4132	826.4	4.1237	4.693
	4183	836.6	4.1103	4.672
	4233	846.6	4.1386	4.677

LTE Band 5						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	20407	824.7	1.097	1.277
			20525	836.5	1.090	1.278
			20643	848.3	1.094	1.300
		3	20415	825.5	2.701	2.978
			20525	836.5	2.705	2.967
			20635	847.5	2.701	2.967
		5	20425	826.5	4.511	4.915
			20525	836.5	4.510	4.955
			20625	846.5	4.519	4.900
		10	20450	829	9.014	9.802
			20525	836.5	8.959	9.684
			20600	844	8.975	9.825
	16QAM	1.4	20407	824.7	1.103	1.290
			20525	836.5	1.095	1.291
			20643	848.3	1.093	1.287



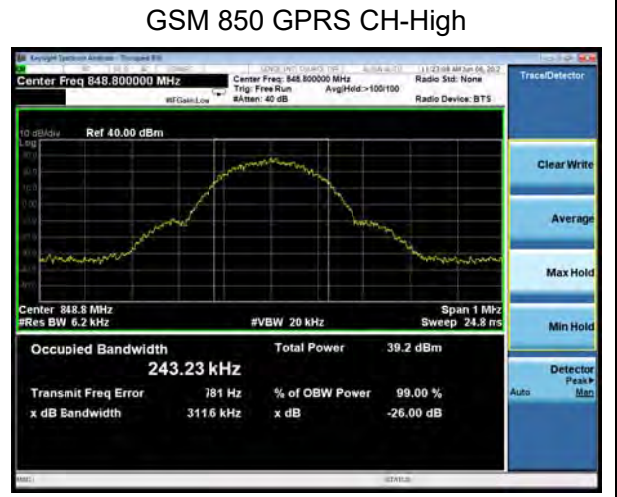
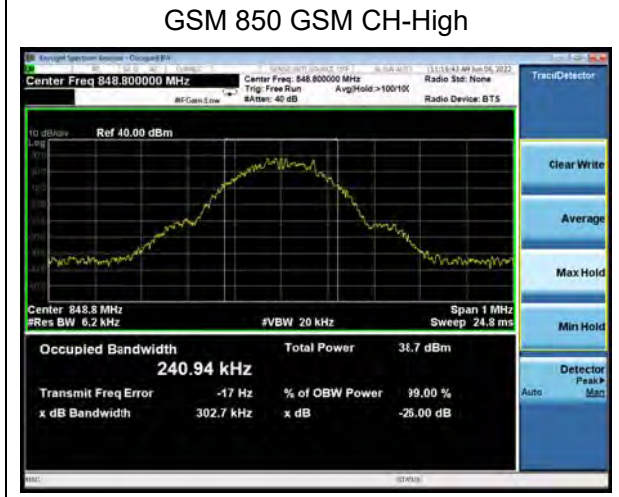
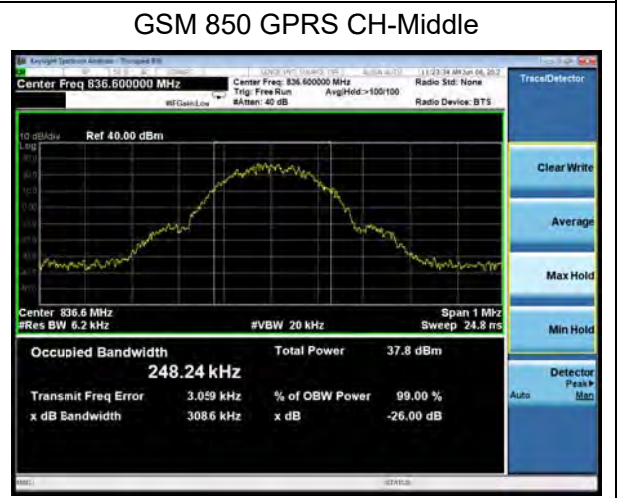
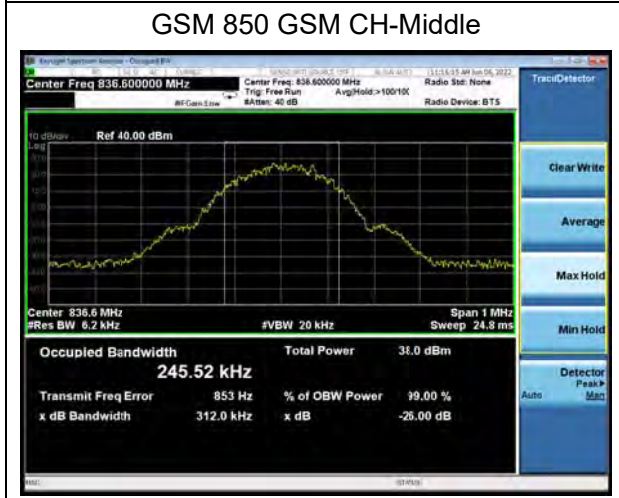
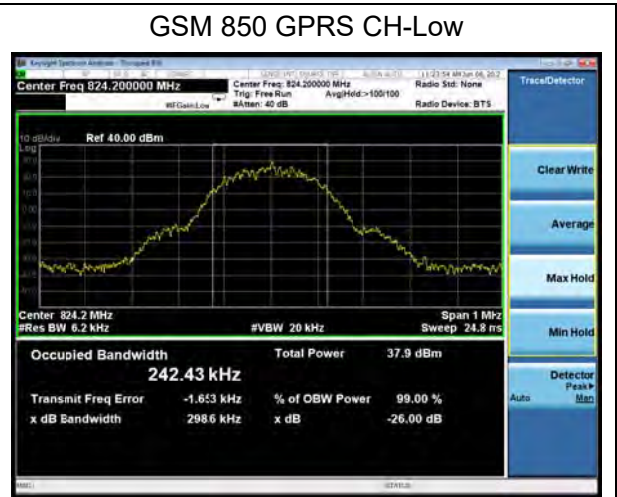
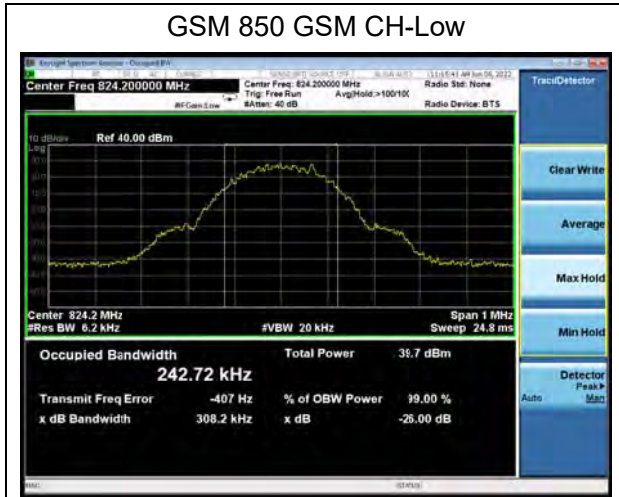


	64QAM	3	20415	825.5	2.704	3.015
			20525	836.5	2.702	2.992
			20635	847.5	2.706	2.962
		5	20425	826.5	4.512	4.957
			20525	836.5	4.503	4.997
			20625	846.5	4.538	4.963
		10	20450	829	9.003	9.884
			20525	836.5	8.982	9.790
			20600	844	9.001	9.766
	64QAM	1.4	20407	824.7	1.097	1.311
			20525	836.5	1.097	1.294
			20643	848.3	1.090	1.289
		3	20415	825.5	2.707	2.976
			20525	836.5	2.707	2.993
			20635	847.5	2.707	2.966
		5	20425	826.5	4.512	4.946
			20525	836.5	4.512	4.939
			20625	846.5	4.527	5.029
		10	20450	829	8.979	9.878
			20525	836.5	8.967	9.711
			20600	844	8.990	9.840

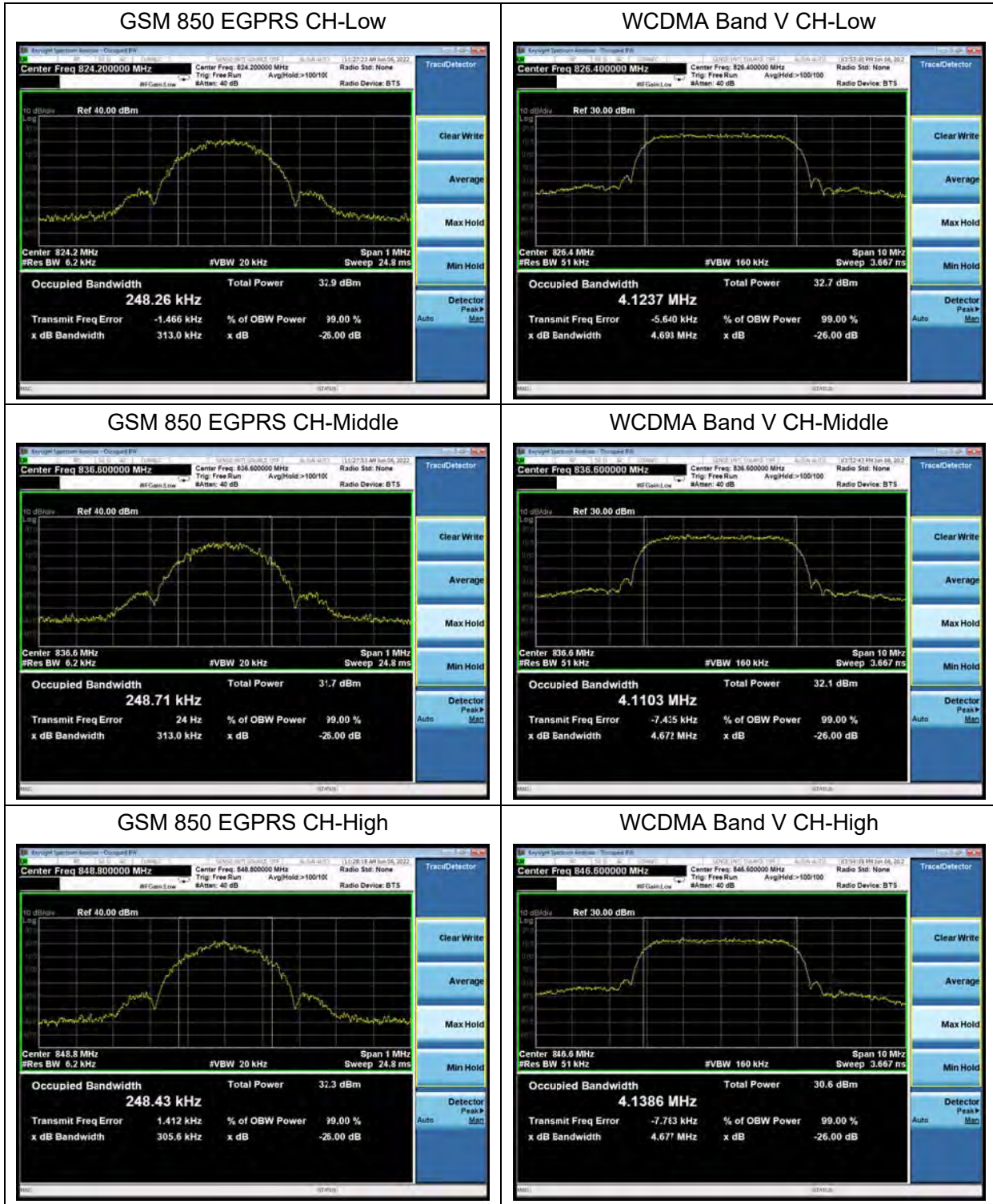
LTE Band 26						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	26797	824.7	1.095	1.291
			26915	836.5	1.094	1.295
			27033	848.3	1.108	1.276
		3	26805	825.5	2.708	3.006
			26915	836.5	2.701	2.982
			27025	847.5	2.701	2.995
		5	26815	826.5	4.531	4.904
			26915	836.5	4.516	4.998
			27015	846.5	4.495	4.939
		10	26840	829	8.996	9.831
			26915	836.5	8.967	9.797

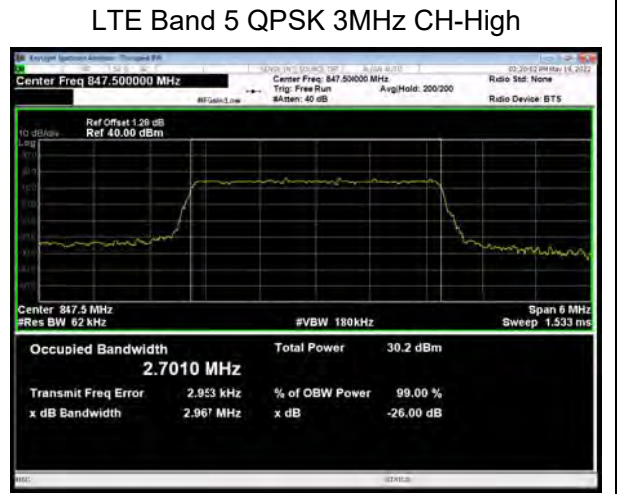
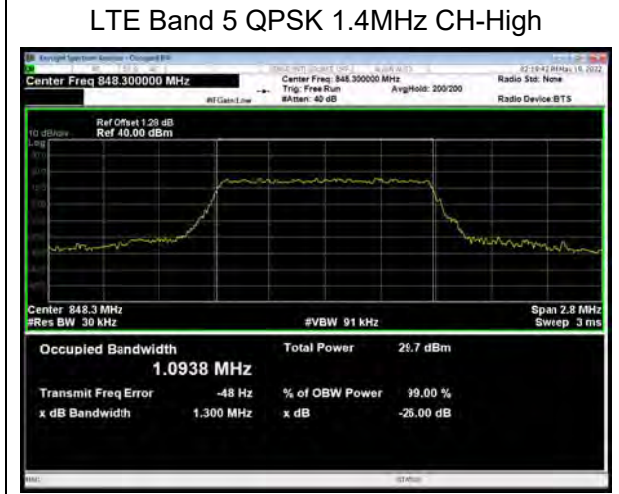
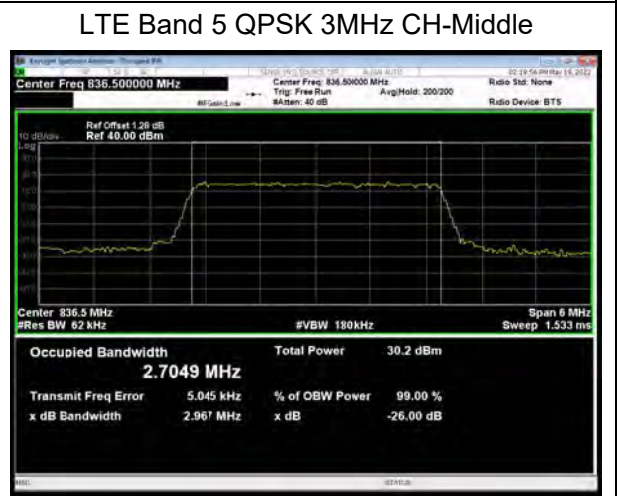
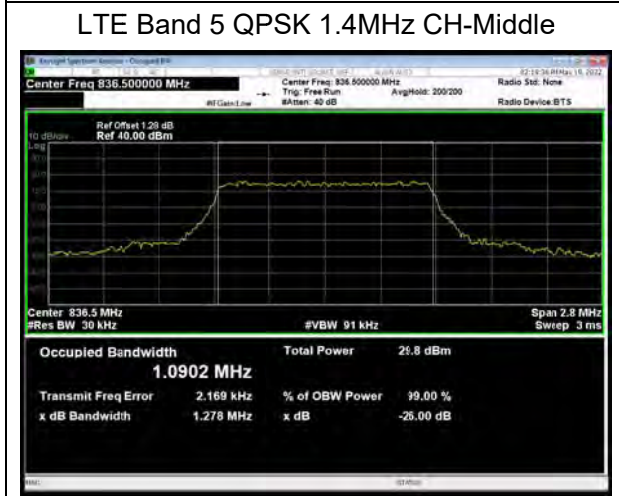
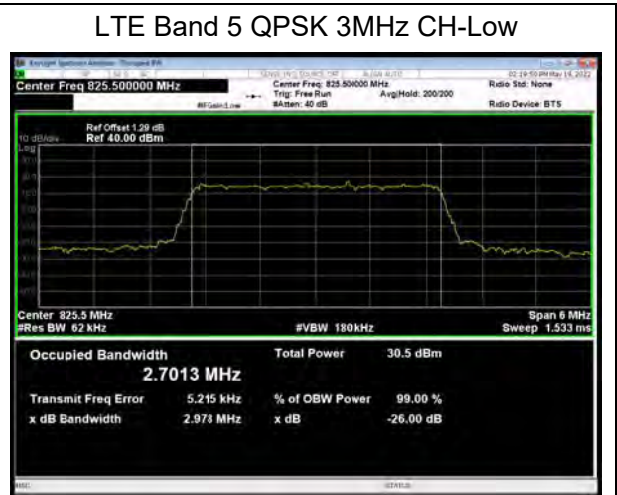
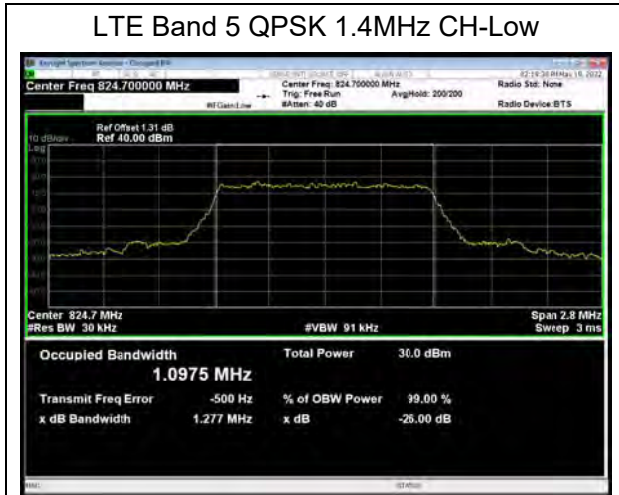


		26990	844	9.003	9.799	
		15	26865	831.5	13.465	14.523
			26915	836.5	13.430	14.627
			26965	841.5	13.471	14.660
	16QAM	1.4	26797	824.7	1.099	1.280
			26915	836.5	1.094	1.290
			27033	848.3	1.097	1.285
		3	26805	825.5	2.696	2.978
			26915	836.5	2.707	3.006
			27025	847.5	2.700	2.977
		5	26815	826.5	4.511	4.925
			26915	836.5	4.511	4.976
			27015	846.5	4.521	5.024
		10	26840	829	8.977	9.863
			26915	836.5	8.965	9.752
			26990	844	9.004	9.674
		15	26865	831.5	13.484	14.623
			26915	836.5	13.449	14.626
			26965	841.5	13.431	14.529
		64QAM	1.4	26797	824.7	1.093
	26915			836.5	1.096	1.262
	27033			848.3	1.096	1.293
	3		26805	825.5	2.692	2.958
			26915	836.5	2.706	2.982
			27025	847.5	2.693	3.003
	5		26815	826.5	4.522	4.863
			26915	836.5	4.515	4.932
			27015	846.5	4.508	4.982
	10		26840	829	8.987	9.894
			26915	836.5	8.996	9.767
26990			844	8.989	9.864	
15	26865		831.5	13.448	14.559	
	26915		836.5	13.475	14.540	
	26965		841.5	13.457	14.620	





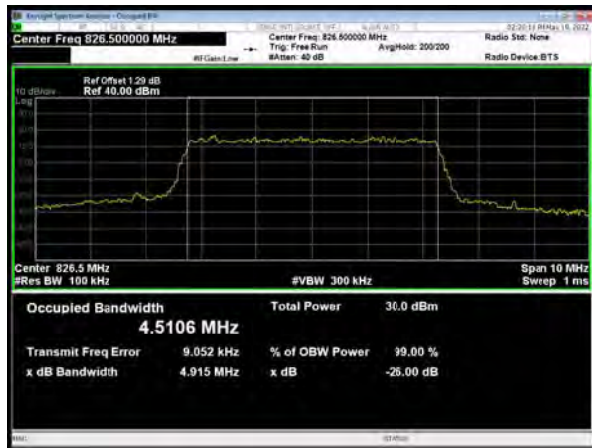




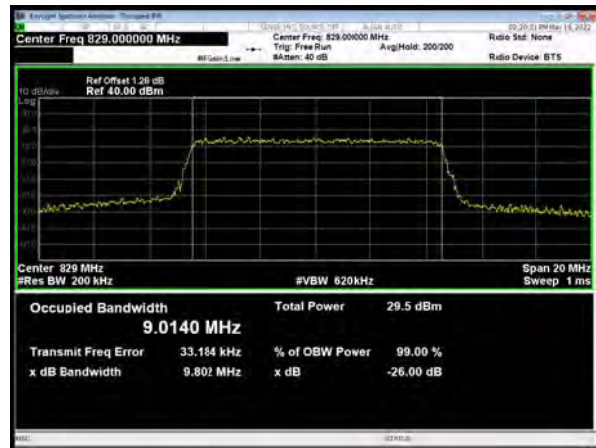




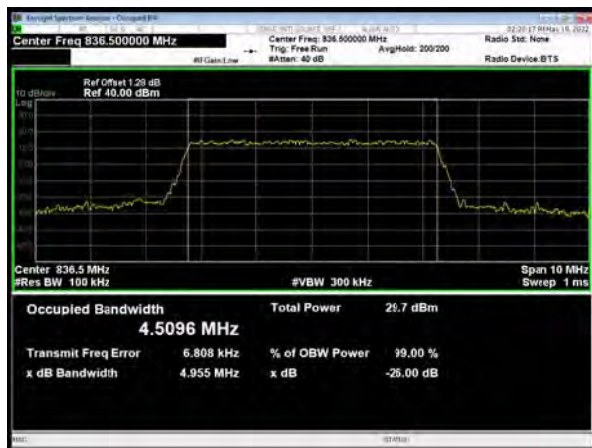
LTE Band 5 QPSK 5MHz CH-Low



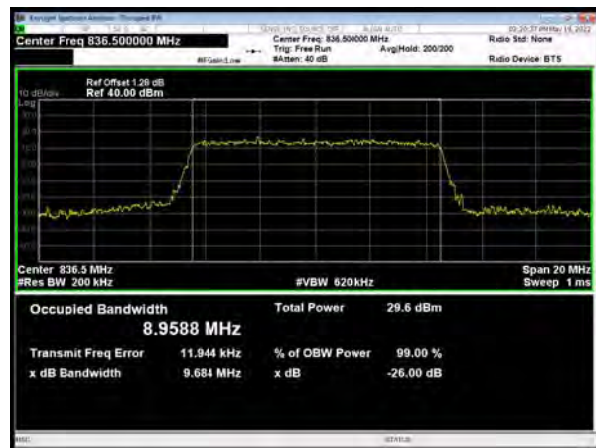
LTE Band 5 QPSK 10MHz CH-Low



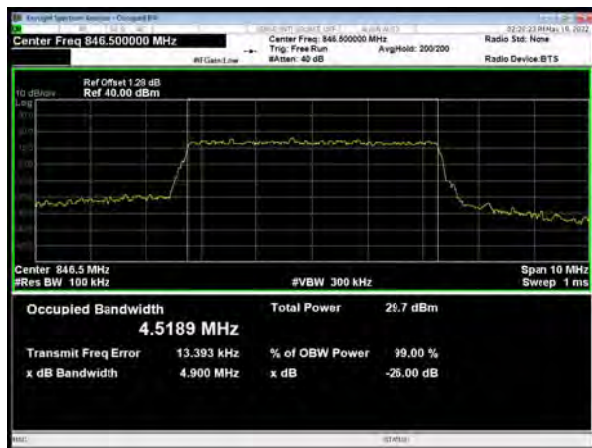
LTE Band 5 QPSK 5MHz CH-Middle



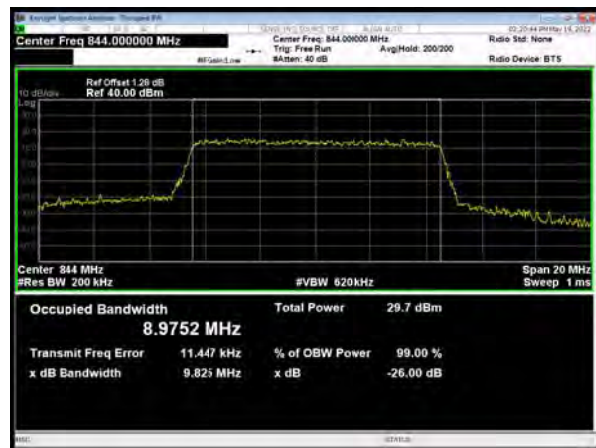
LTE Band 5 QPSK 10MHz CH-Middle

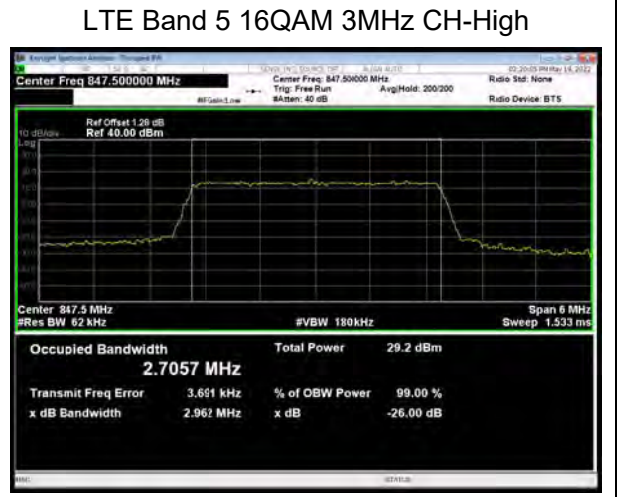
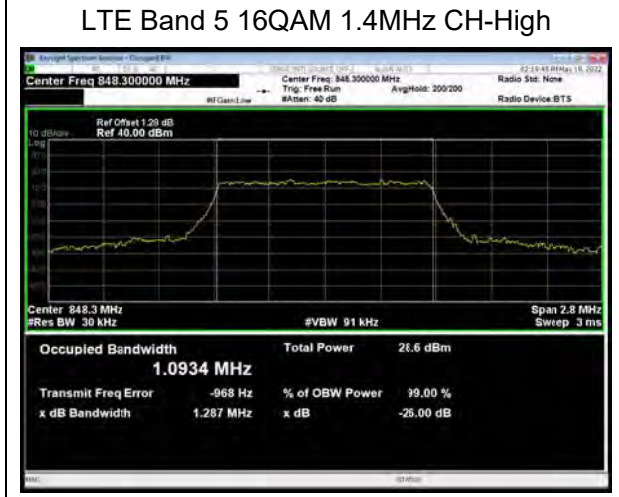
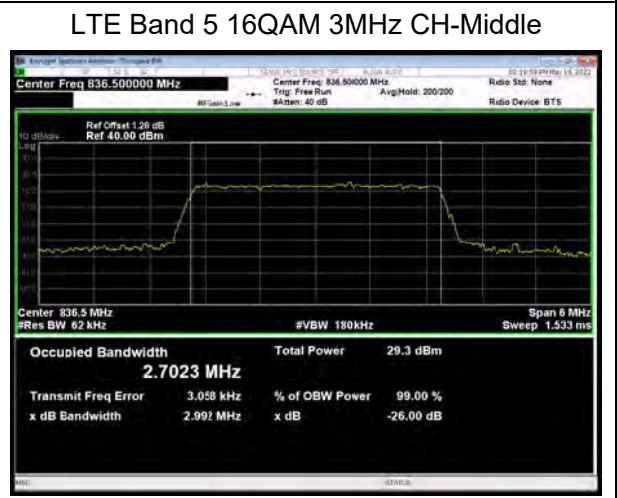
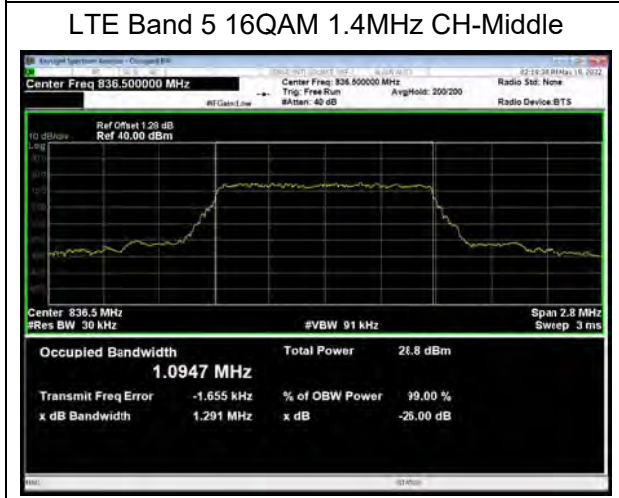
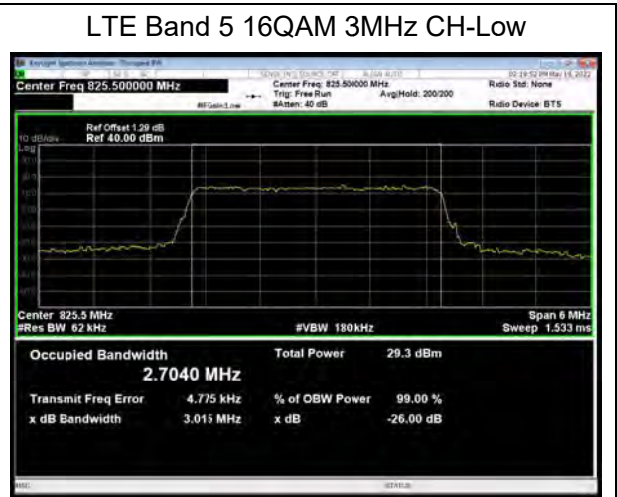
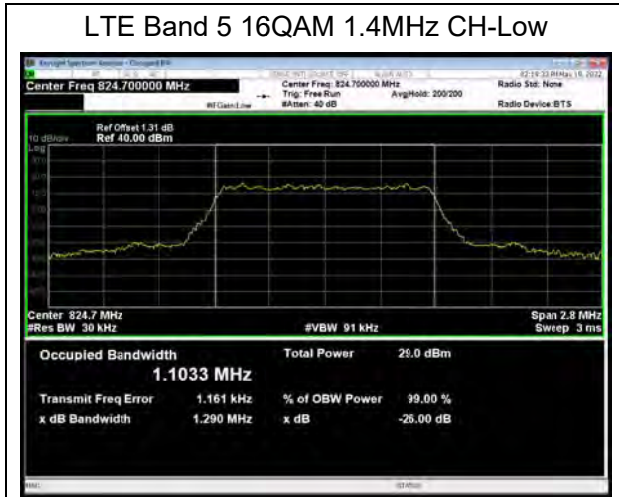


LTE Band 5 QPSK 5MHz CH-High

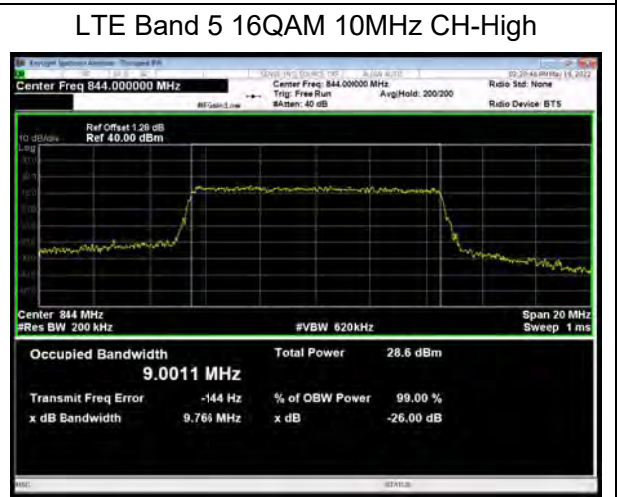
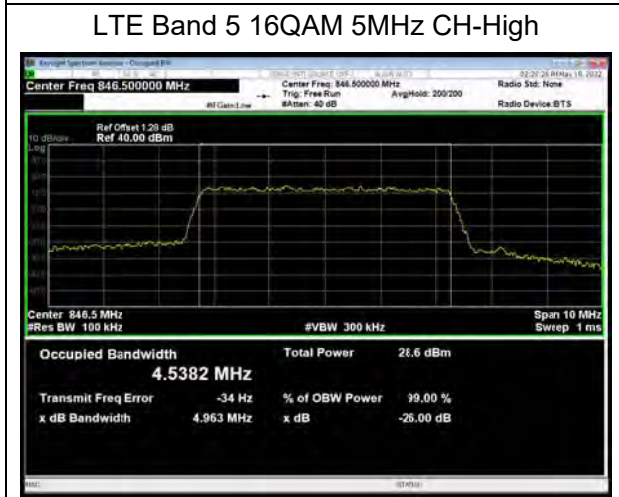
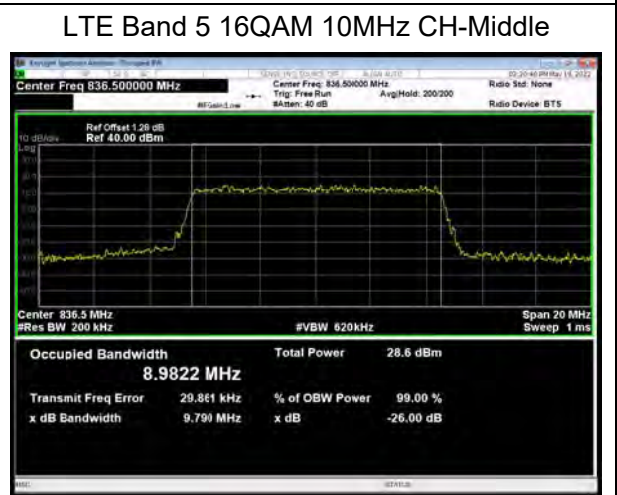
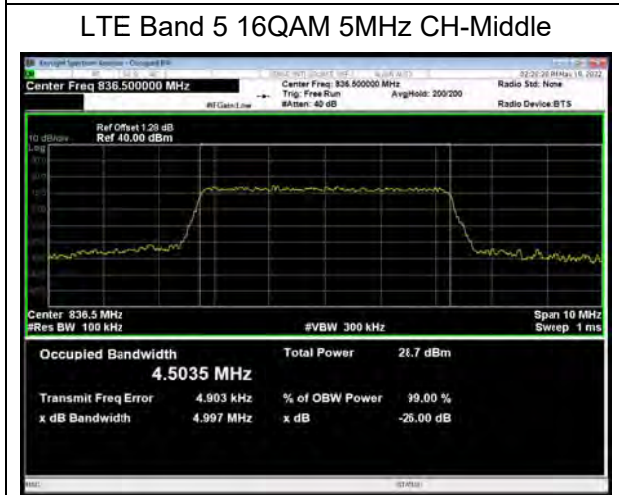
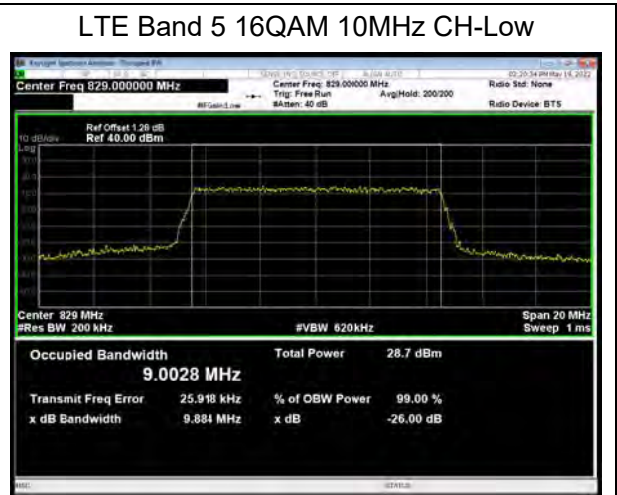
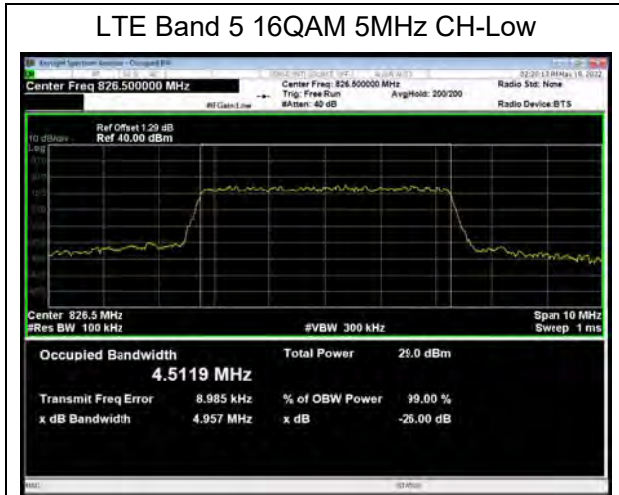


LTE Band 5 QPSK 10MHz CH-High

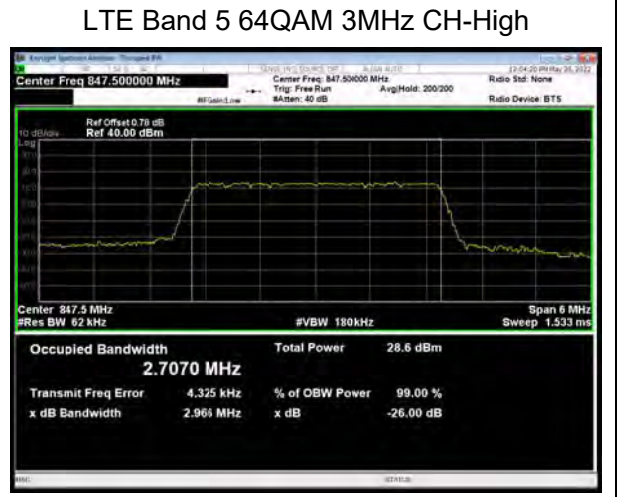
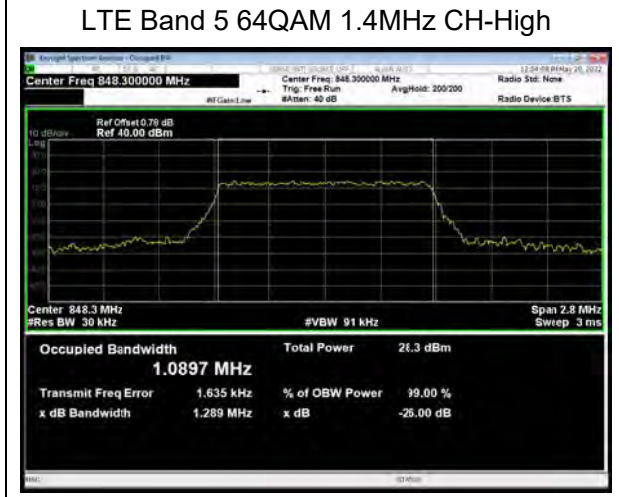
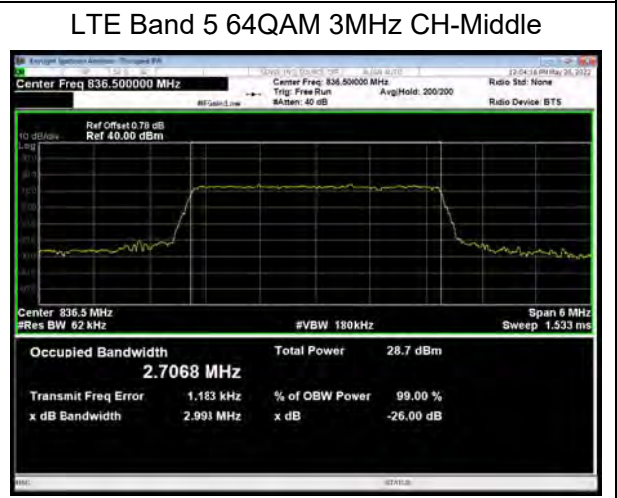
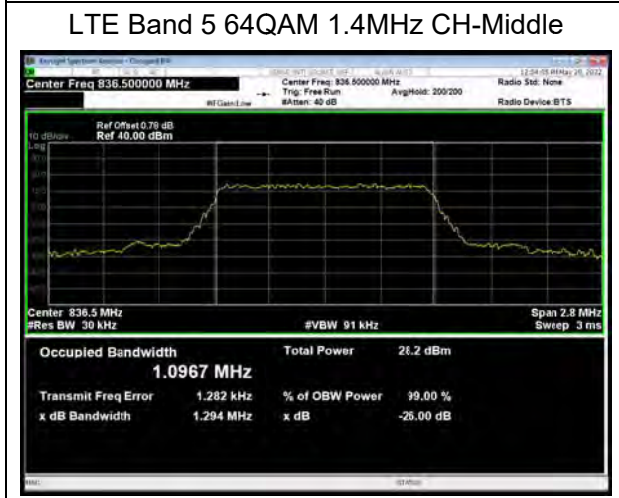
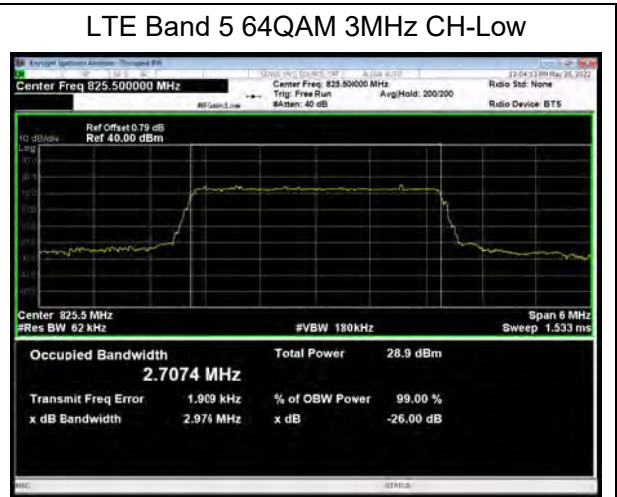
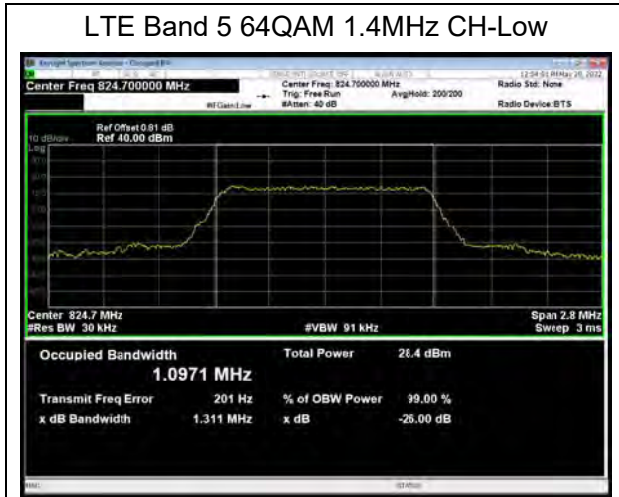


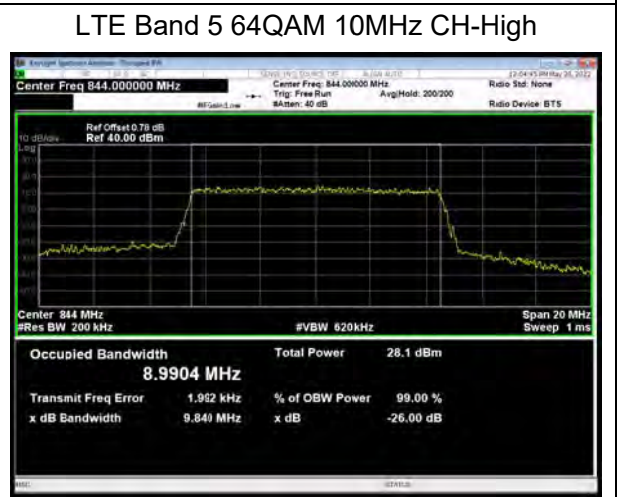
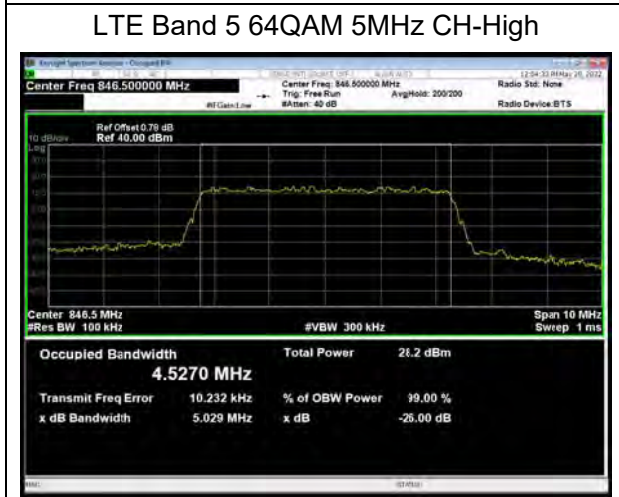
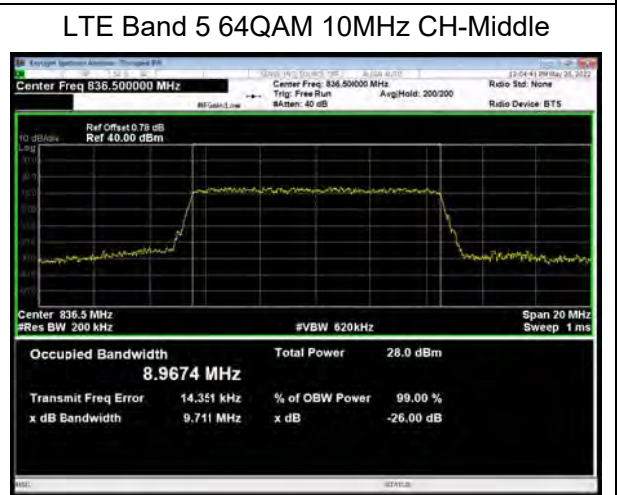
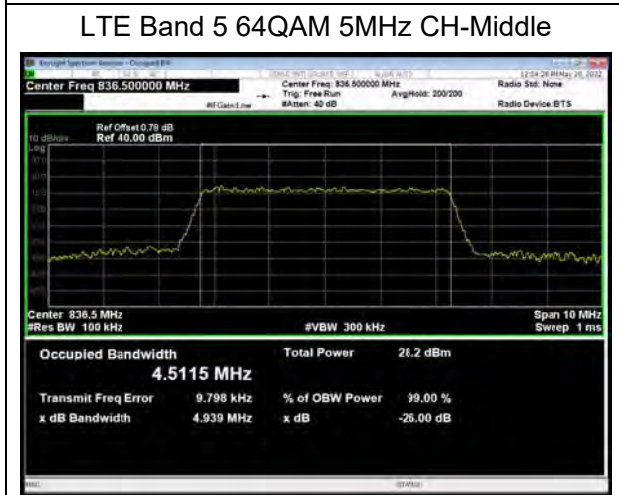
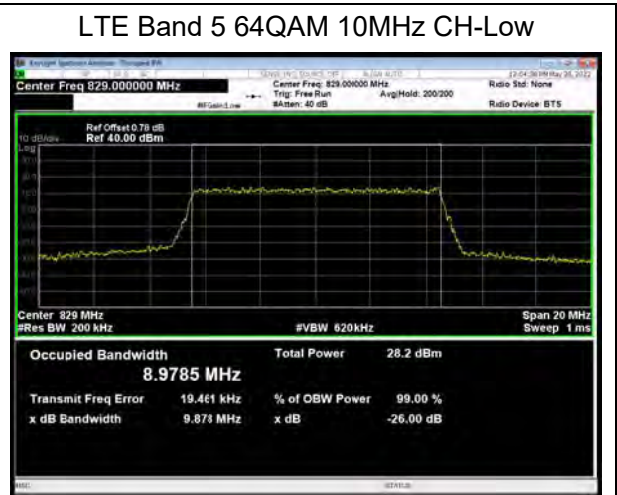
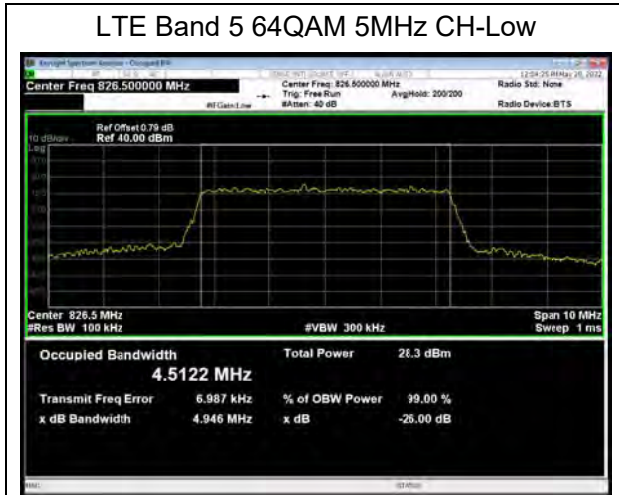




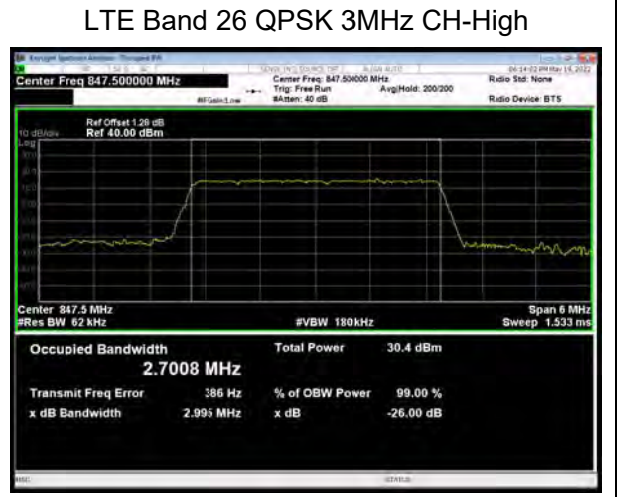
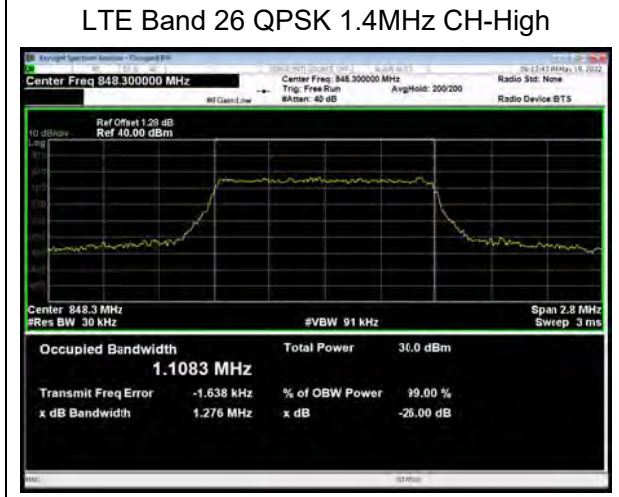
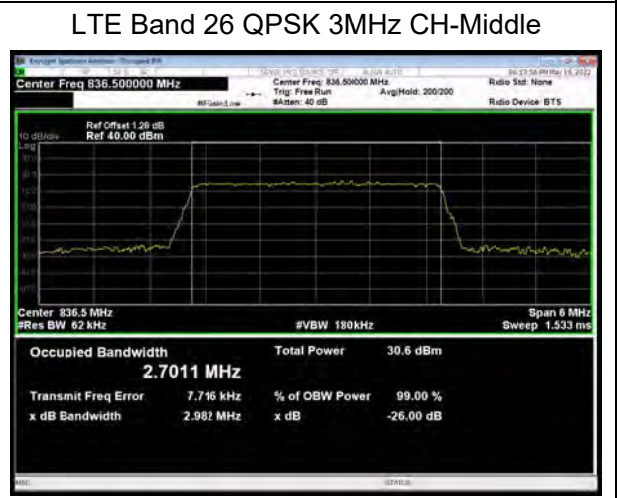
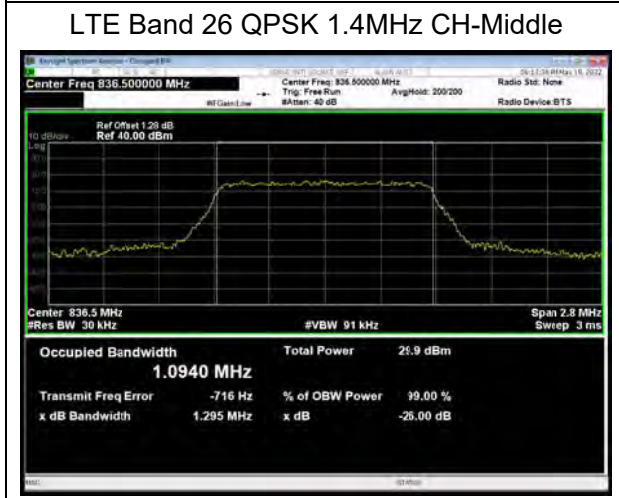
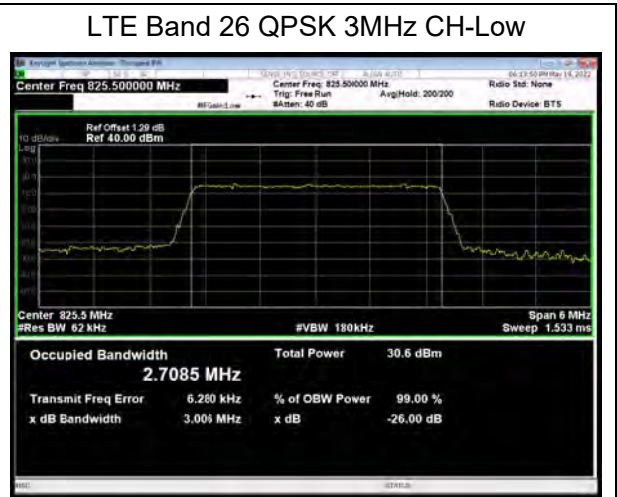
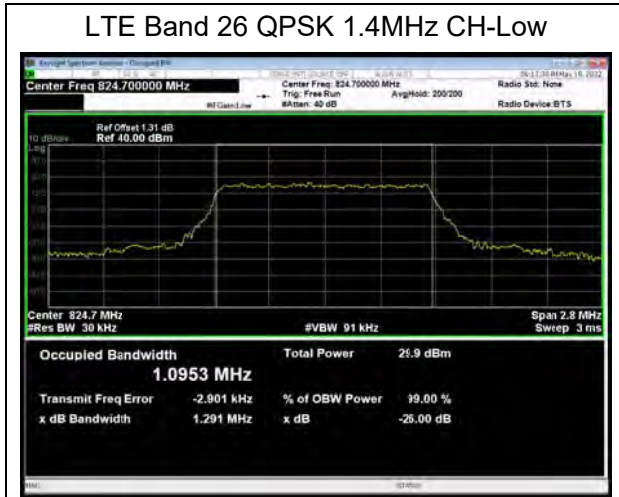


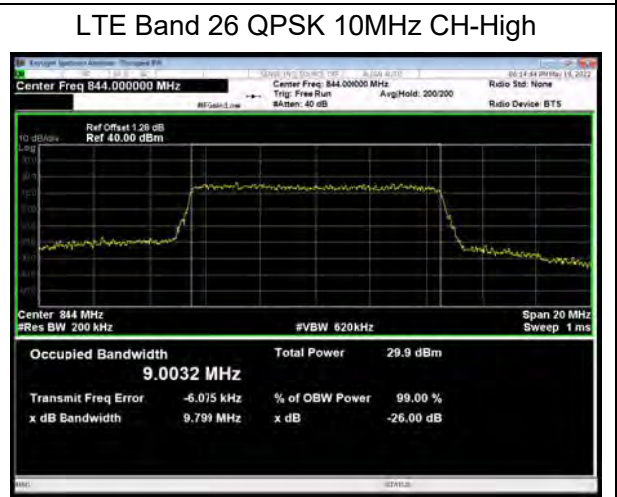
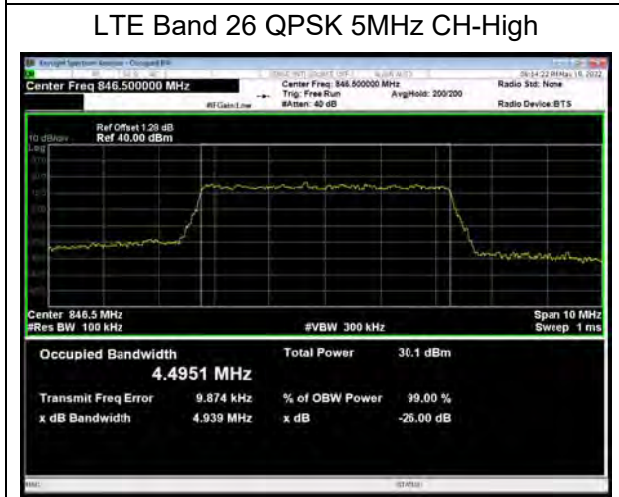
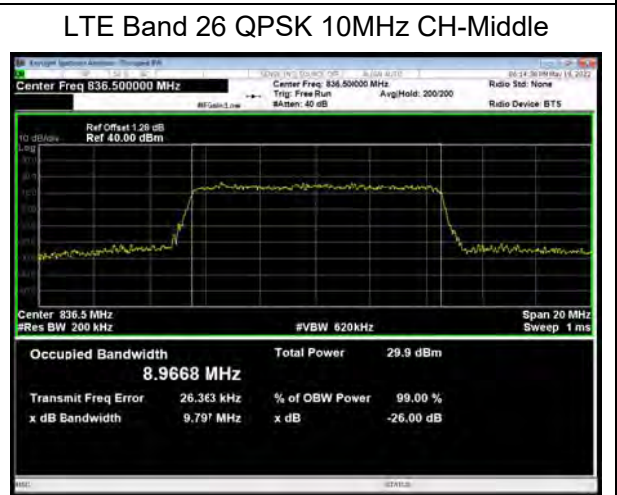
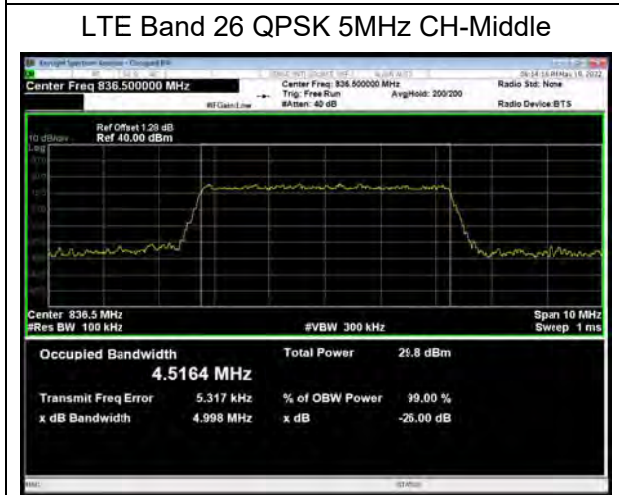
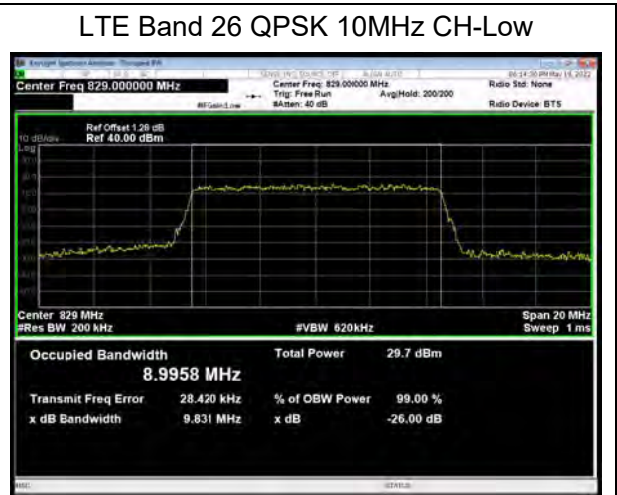
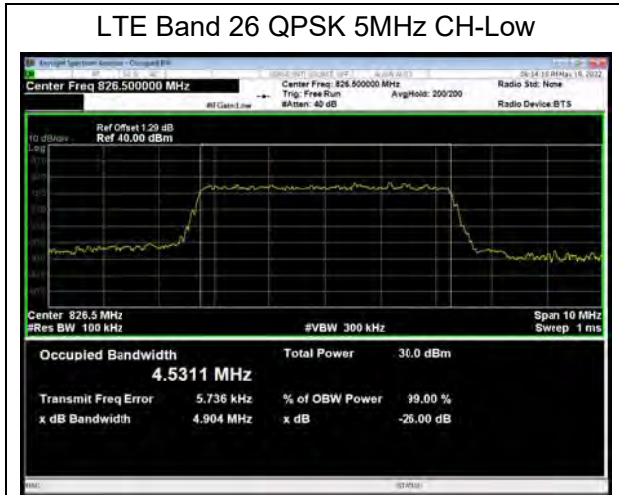








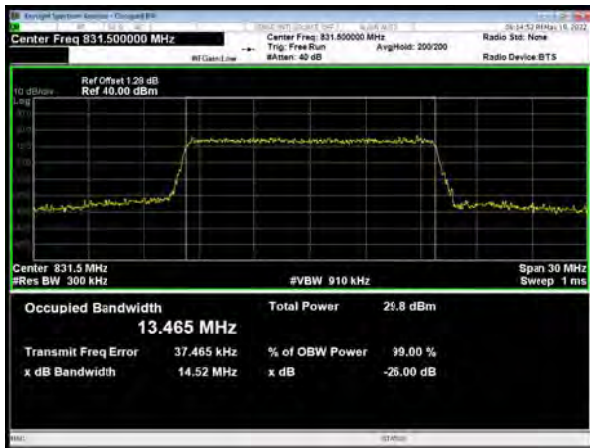








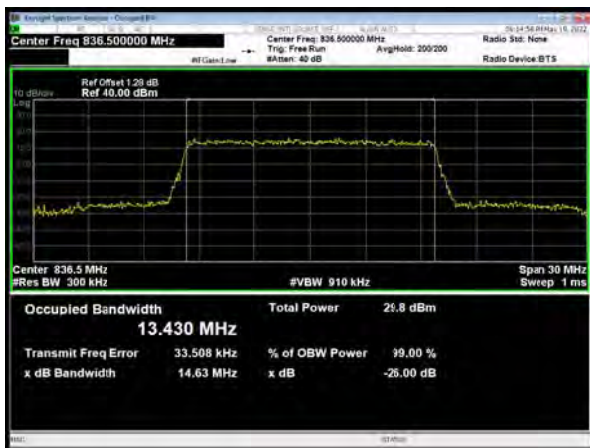
LTE Band 26 QPSK 15MHz CH-Low



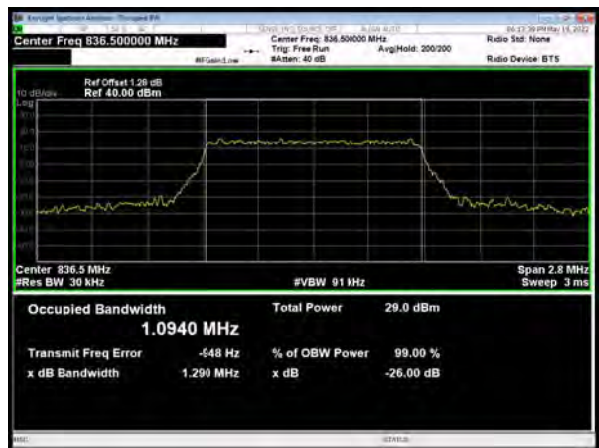
LTE Band 26 16QAM 1.4MHz CH-Low



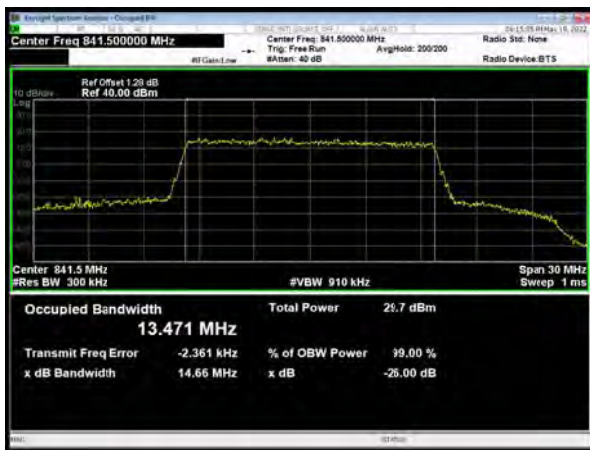
LTE Band 26 QPSK 15MHz CH-Middle



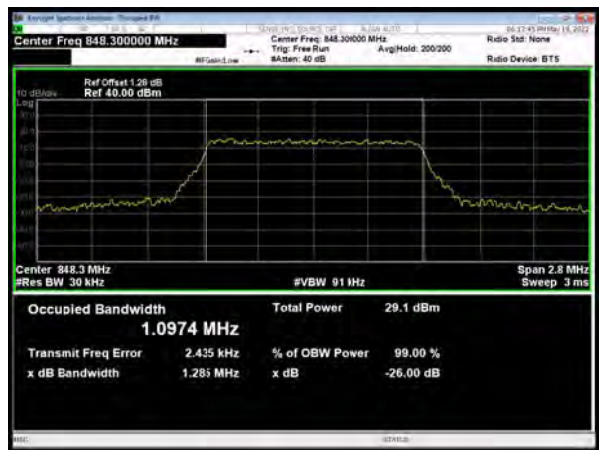
LTE Band 26 16QAM 1.4MHz CH-Middle



LTE Band 26 QPSK 15MHz CH-High

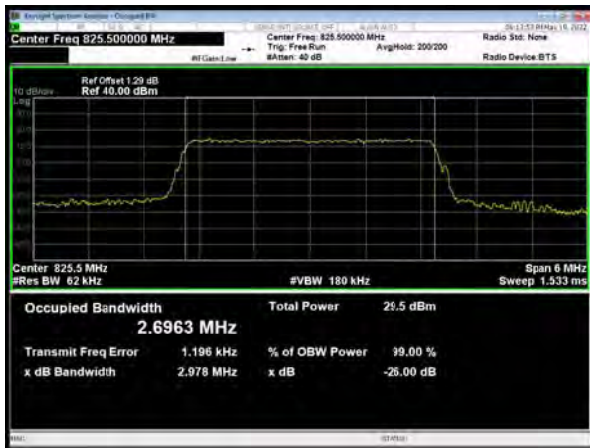


LTE Band 26 16QAM 1.4MHz CH-High

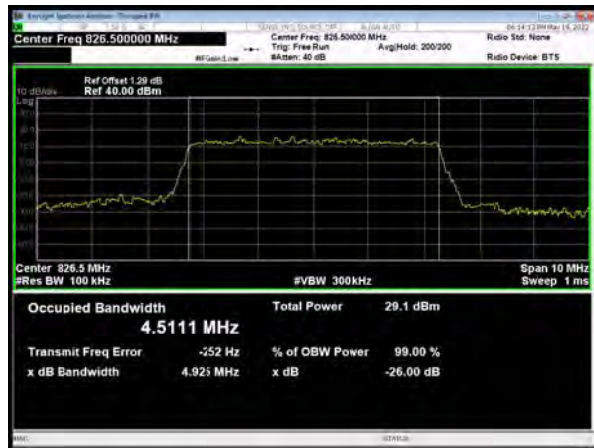




LTE Band 26 16QAM 3MHz CH-Low



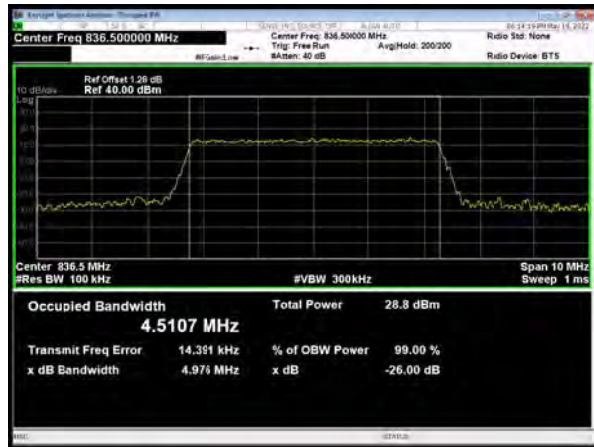
LTE Band 26 16QAM 5MHz CH-Low



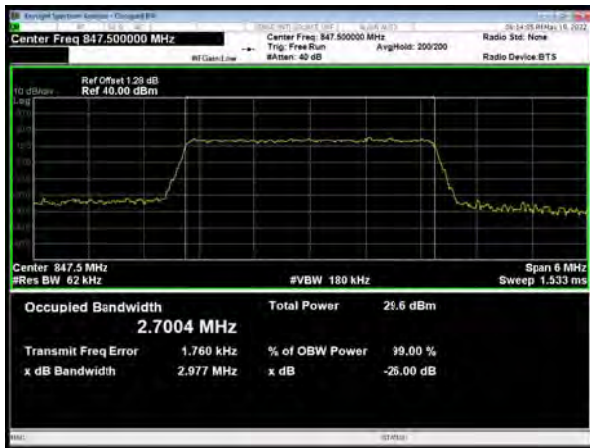
LTE Band 26 16QAM 3MHz CH-Middle



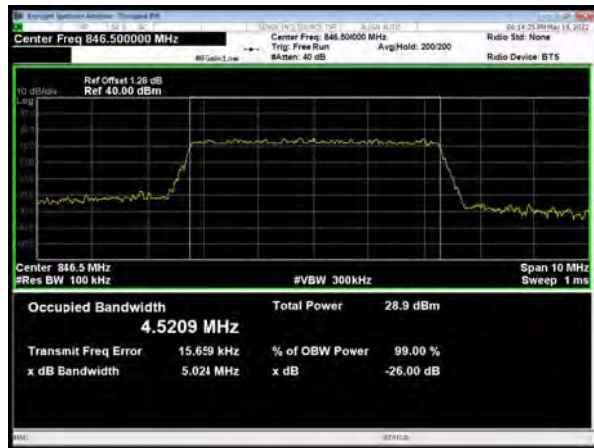
LTE Band 26 16QAM 5MHz CH-Middle



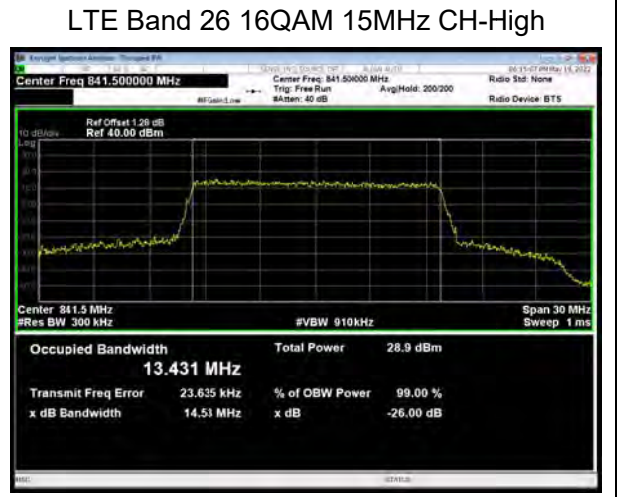
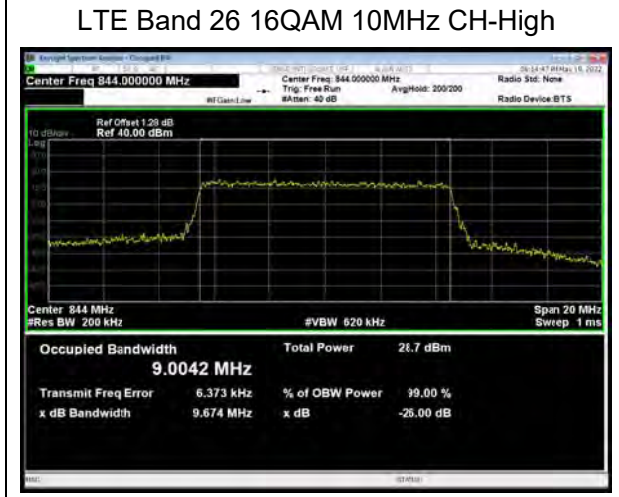
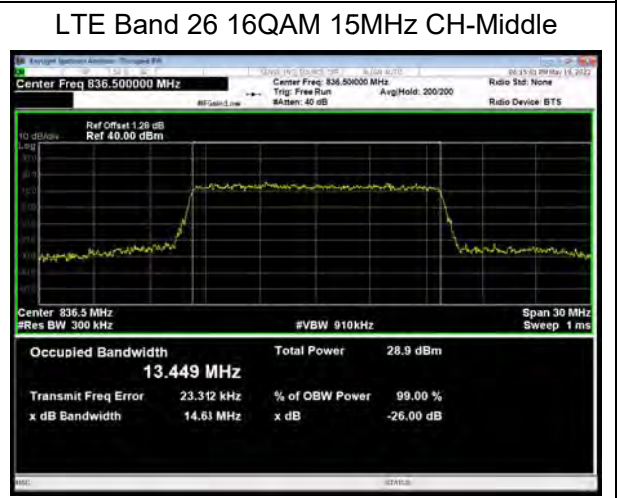
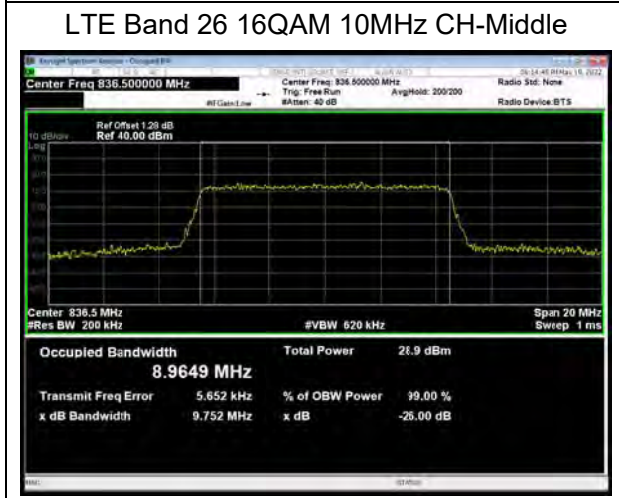
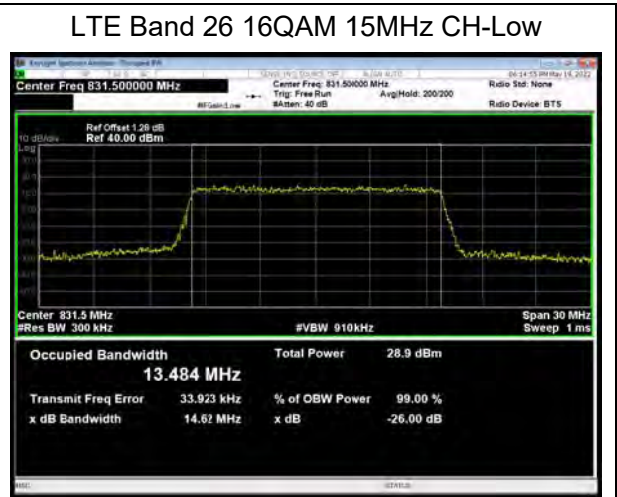
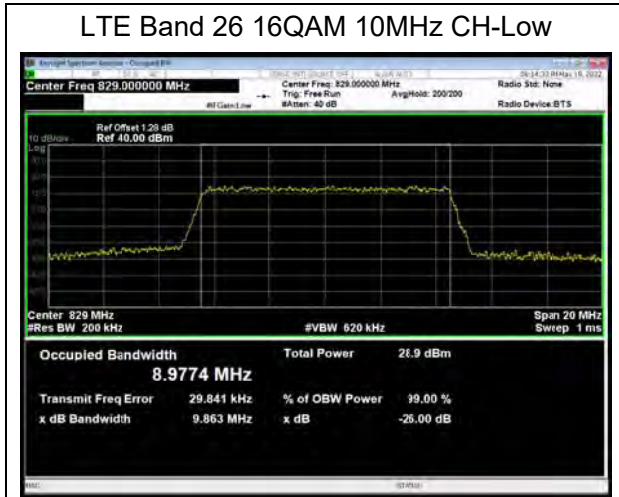
LTE Band 26 16QAM 3MHz CH-High

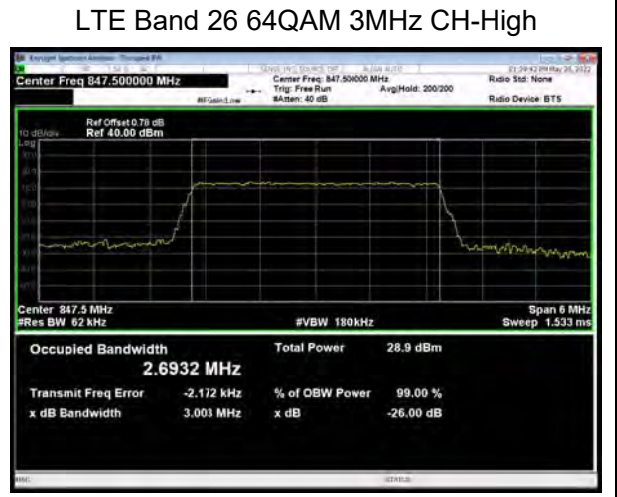
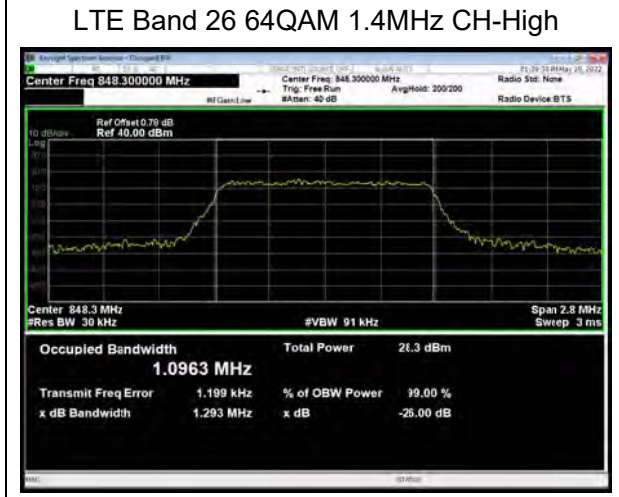
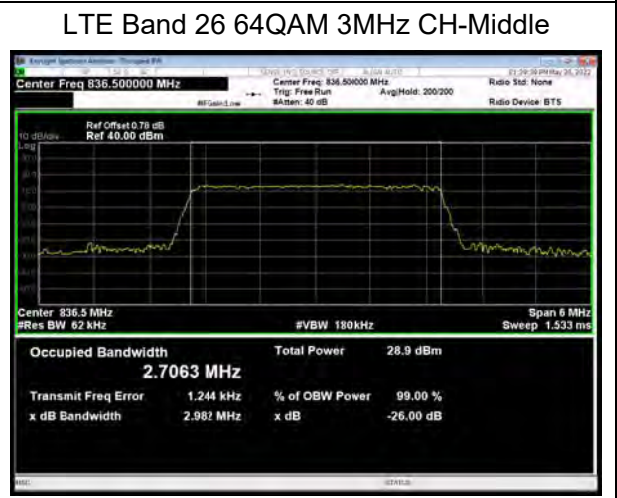
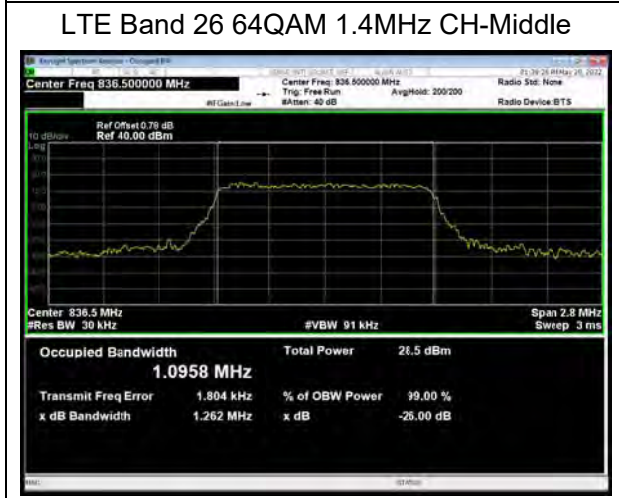
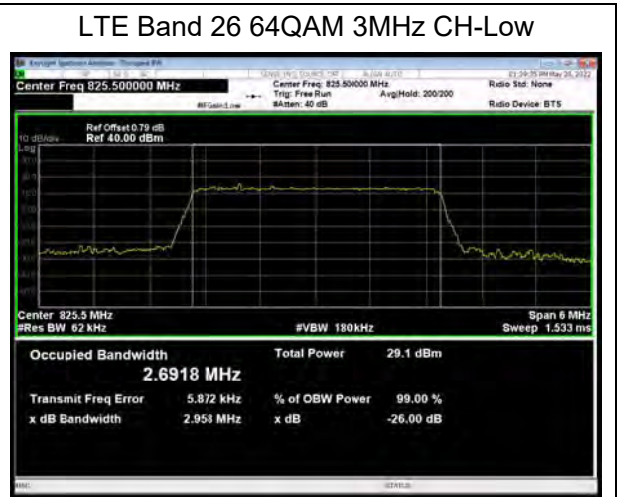
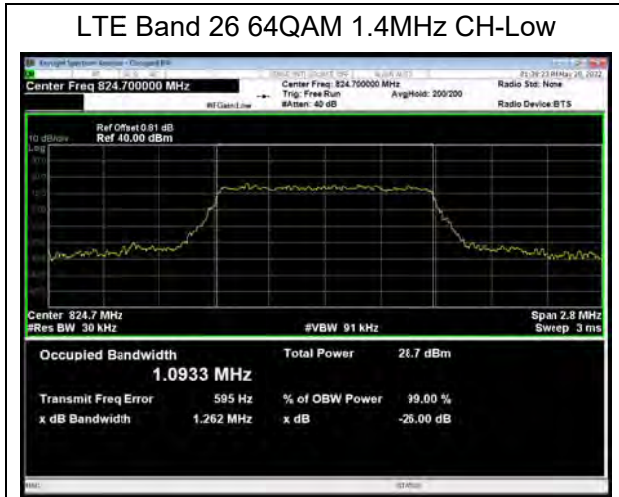


LTE Band 26 16QAM 5MHz CH-High





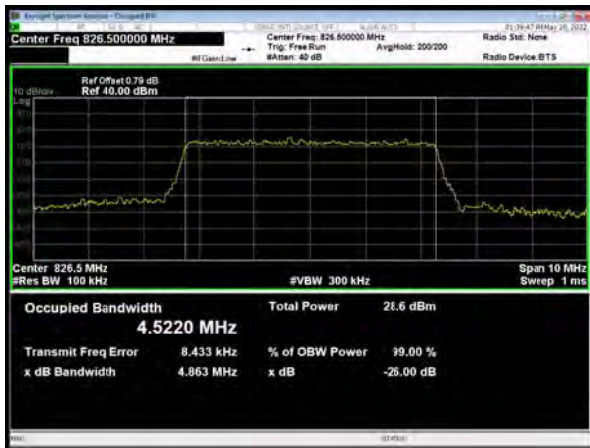




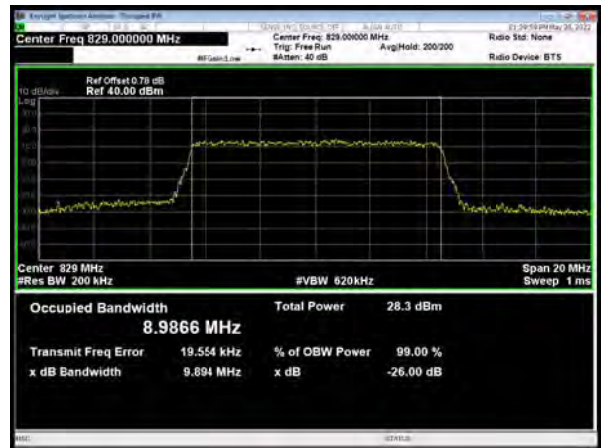




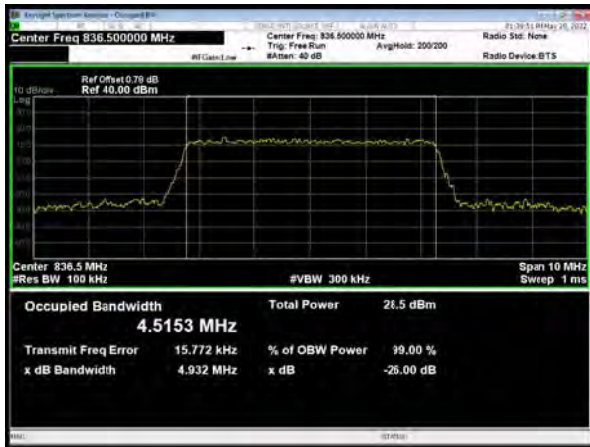
LTE Band 26 64QAM 5MHz CH-Low



LTE Band 26 64QAM 10MHz CH-Low



LTE Band 26 64QAM 5MHz CH-Middle



LTE Band 26 64QAM 10MHz CH-Middle



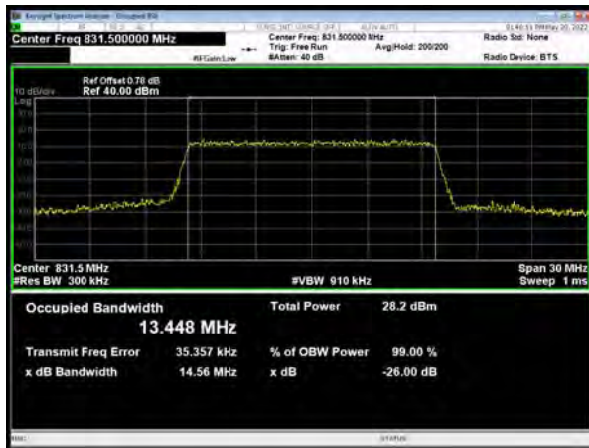
LTE Band 26 64QAM 5MHz CH-High



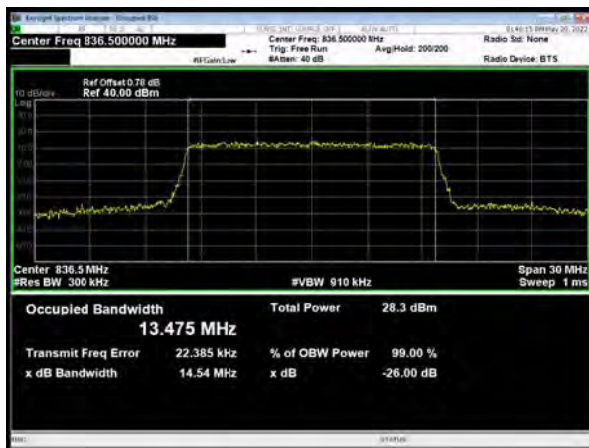
LTE Band 26 64QAM 10MHz CH-High



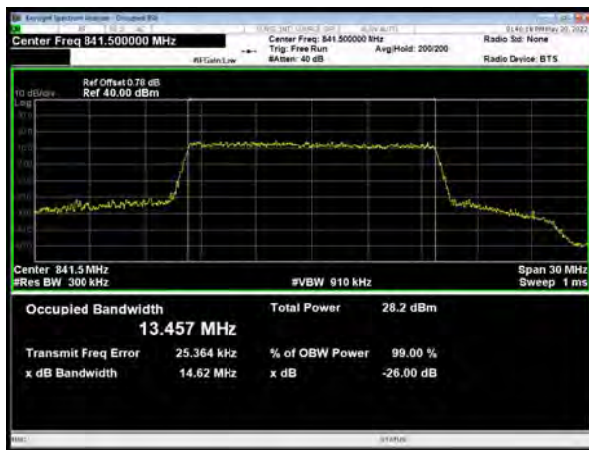
### LTE Band 26 64QAM 15MHz CH-Low



### LTE Band 26 64QAM 15MHz CH-Middle



### LTE Band 26 64QAM 15MHz CH-High





### 6.3. Band Edge Compliance

GSM 850 CH-Low



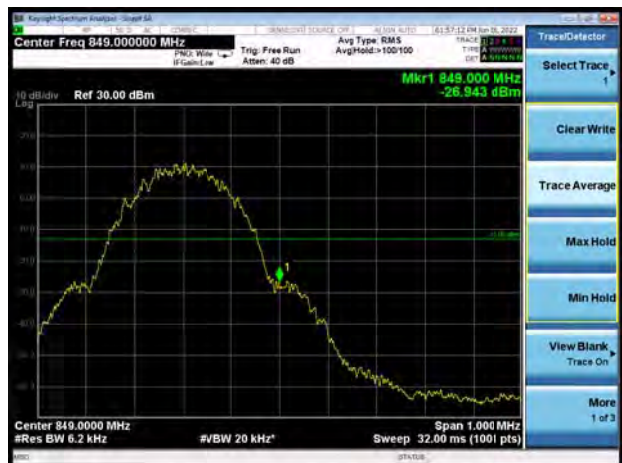
GSM 850 CH-High



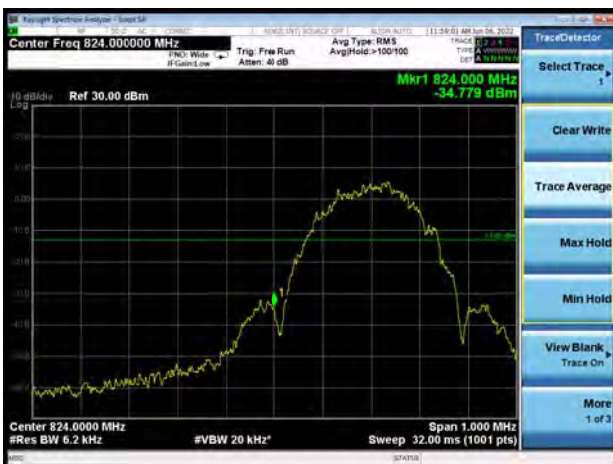
GSM 850 GPRS CH-Low



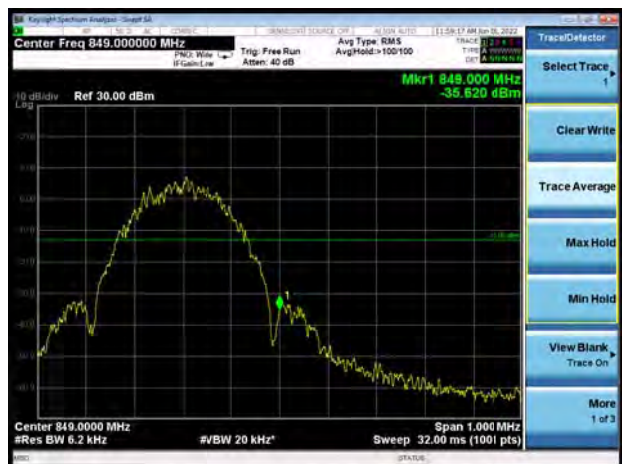
GSM 850 GPRS CH-High



GSM 850 EGPRS CH-Low



GSM 850 EGPRS CH-High





### WCDMA Band V CH-Low

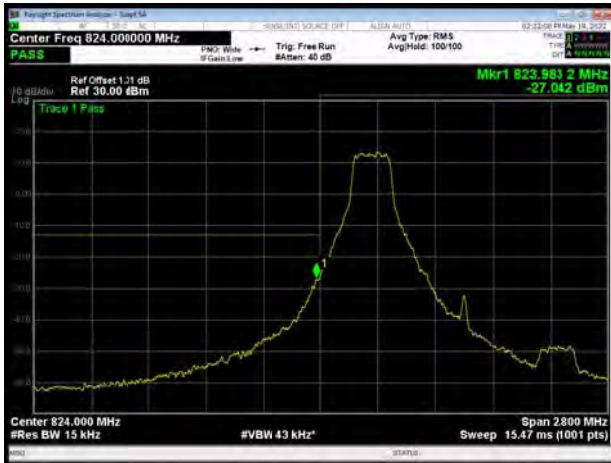


### WCDMA Band V CH-High

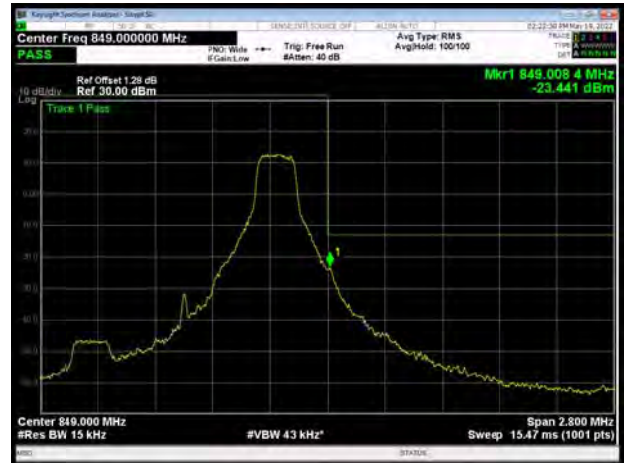




LTE Band 5 QPSK 1.4MHz CH-Low 1RB



LTE Band 5 QPSK 1.4MHz CH-High 1RB



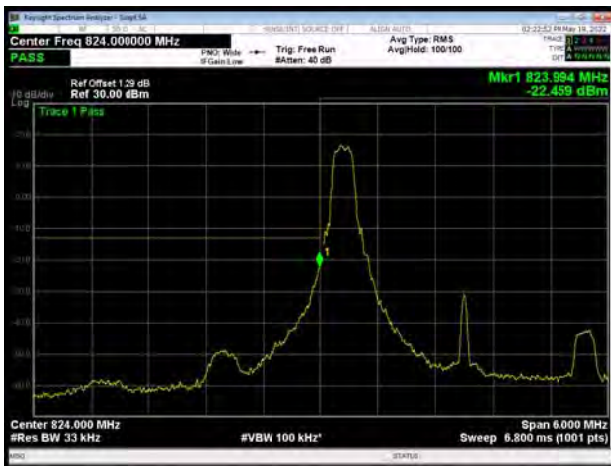
LTE Band 5 QPSK 1.4MHz CH-Low 100%RB



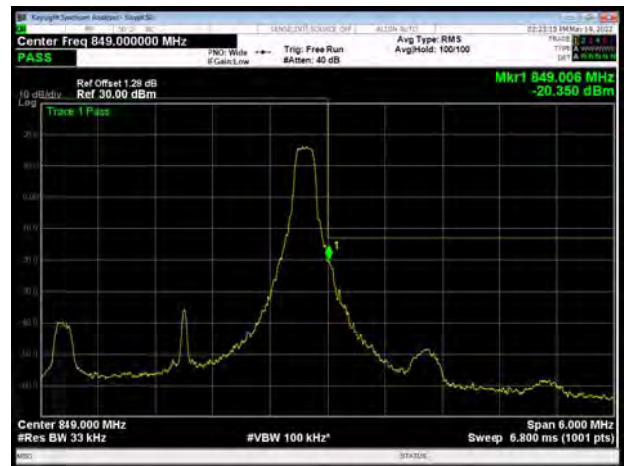
LTE Band 5 QPSK 1.4MHz CH-High 100%RB



LTE Band 5 QPSK 3MHz CH-Low 1RB



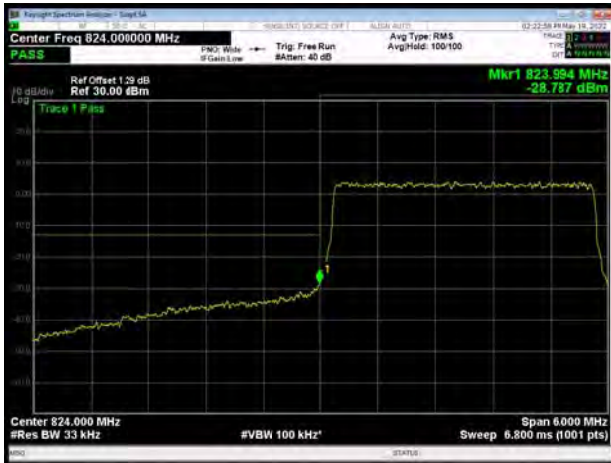
LTE Band 5 QPSK 3MHz CH-High 1RB







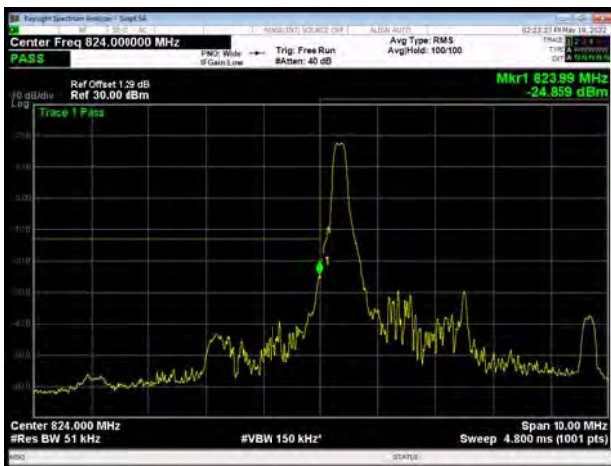
LTE Band 5 QPSK 3MHz CH-Low 100%RB



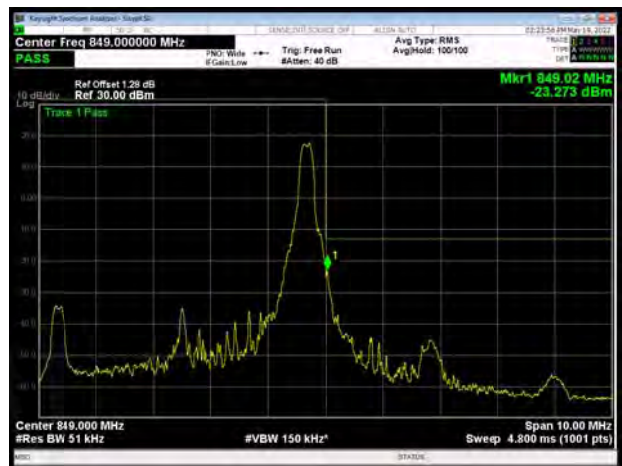
LTE Band 5 QPSK 3MHz CH-High 100%RB



LTE Band 5 QPSK 5MHz CH-Low 1RB



LTE Band 5 QPSK 5MHz CH-High 1RB



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

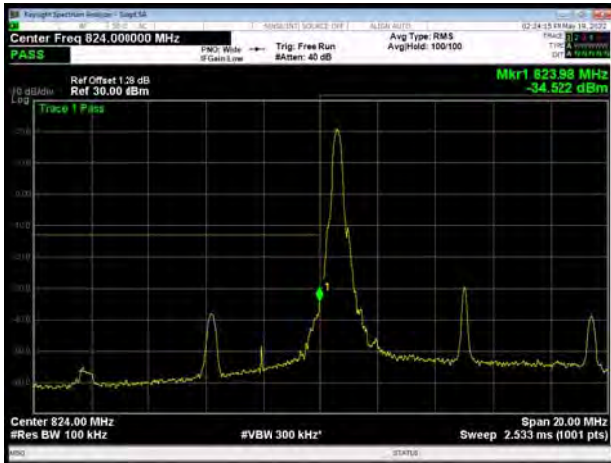


LTE Band 5 QPSK 5MHz CH-High 100%RB

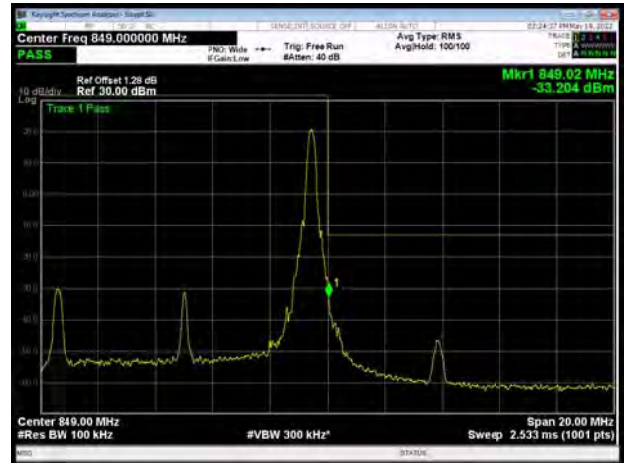




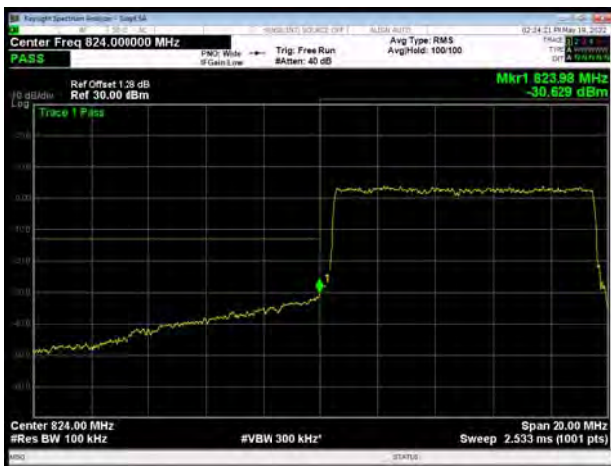
LTE Band 5 QPSK 10MHz CH-Low 1RB



LTE Band 5 QPSK 10MHz CH-High 1RB



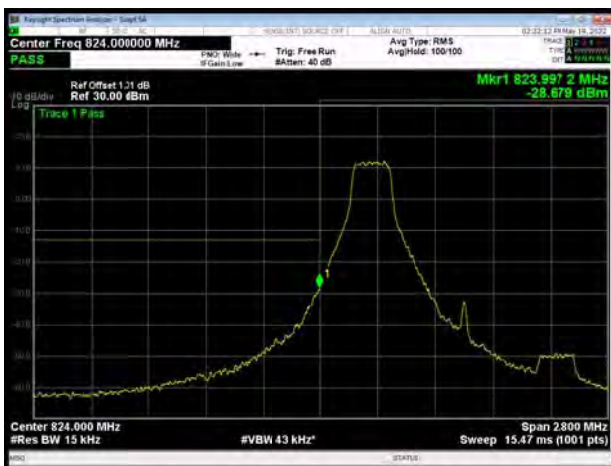
LTE Band 5 QPSK 10MHz CH-Low 100%RB



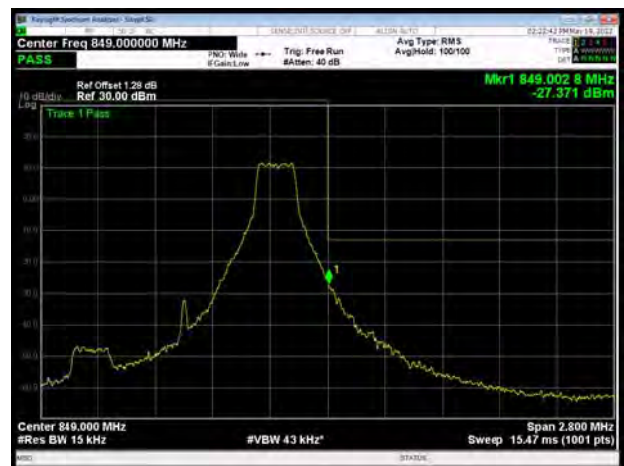
LTE Band 5 QPSK 10MHz CH-High 100%RB



LTE Band 5 16QAM 1.4MHz CH-Low 1RB



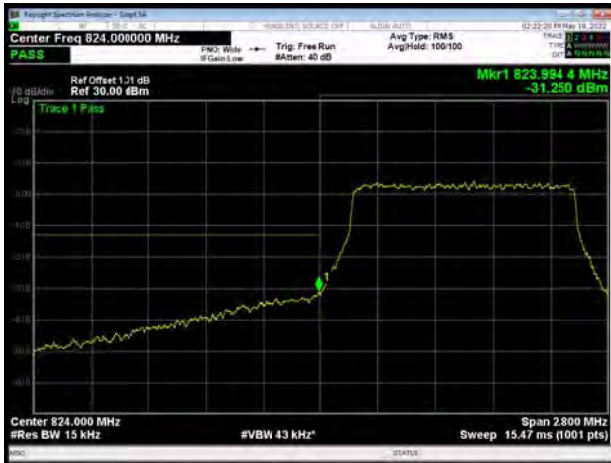
LTE Band 5 16QAM 1.4MHz CH-High 1RB







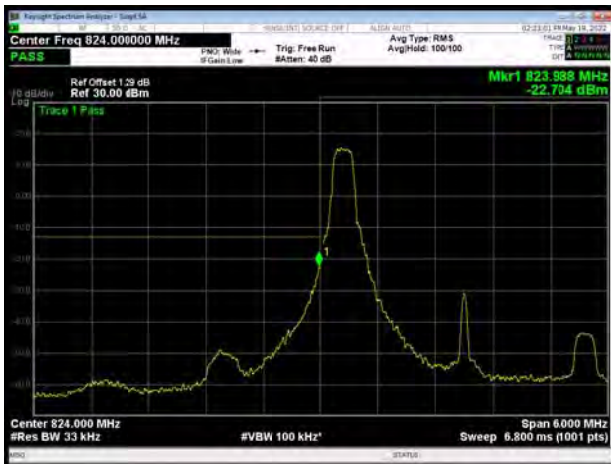
LTE Band 5 16QAM 1.4MHz CH-Low 100%RB



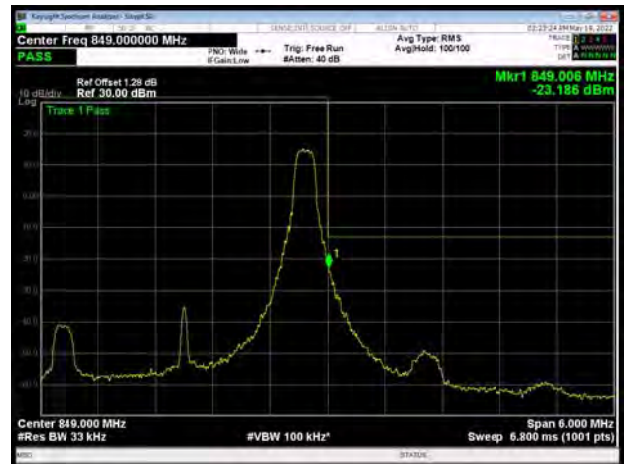
LTE Band 5 16QAM 1.4MHz CH-High 100%RB



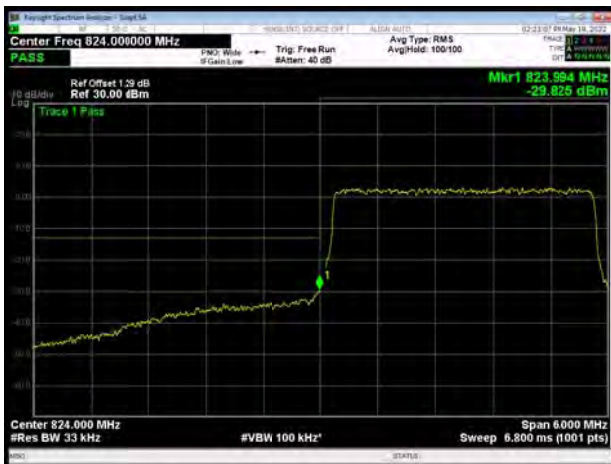
LTE Band 5 16QAM 3MHz CH-Low 1RB



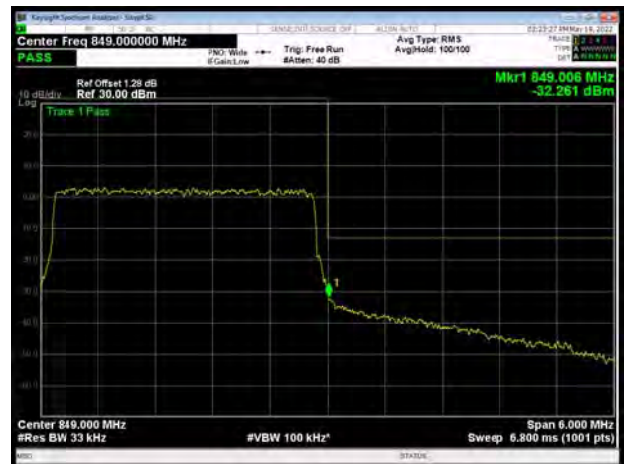
LTE Band 5 16QAM 3MHz CH-High 1RB



LTE Band 5 16QAM 3MHz CH-Low 100%RB



LTE Band 5 16QAM 3MHz CH-High 100%RB



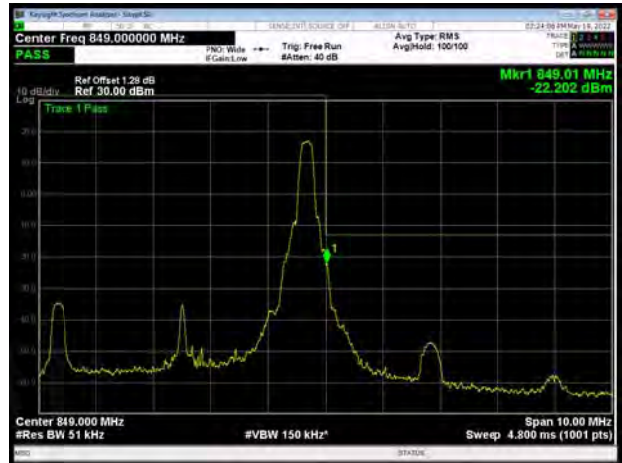




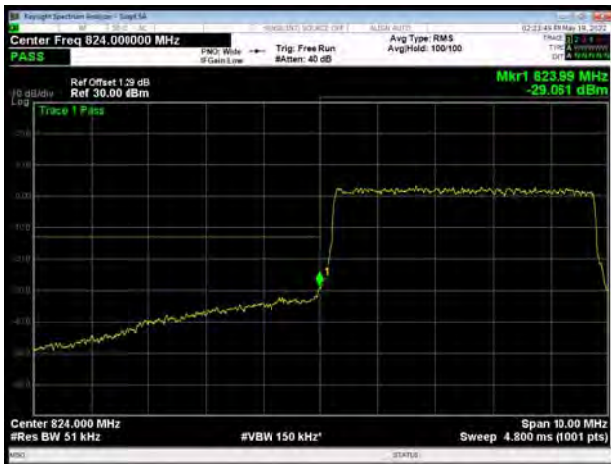
LTE Band 5 16QAM 5MHz CH-Low 1RB



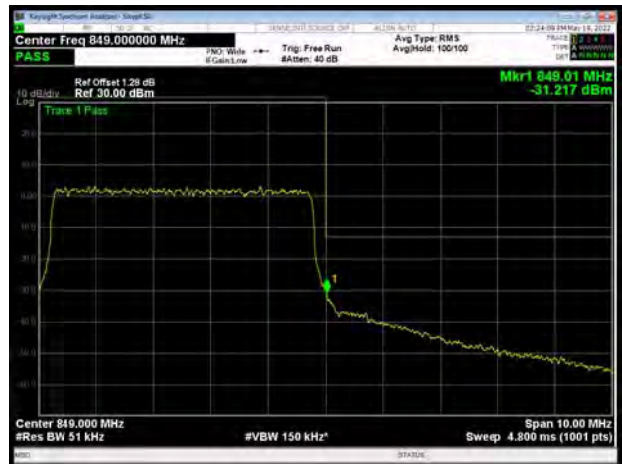
LTE Band 5 16QAM 5MHz CH-High 1RB



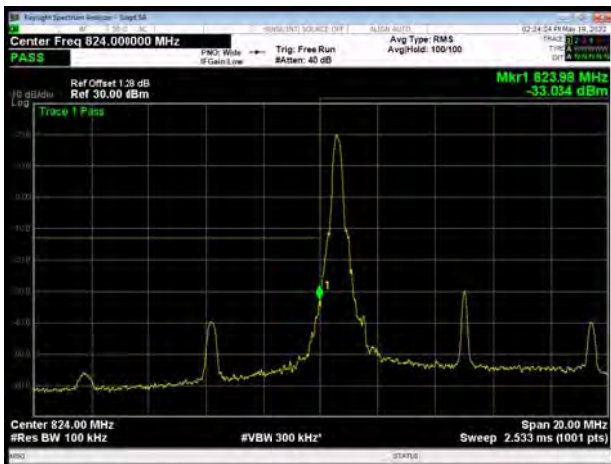
LTE Band 5 16QAM 5MHz CH-Low 100%RB



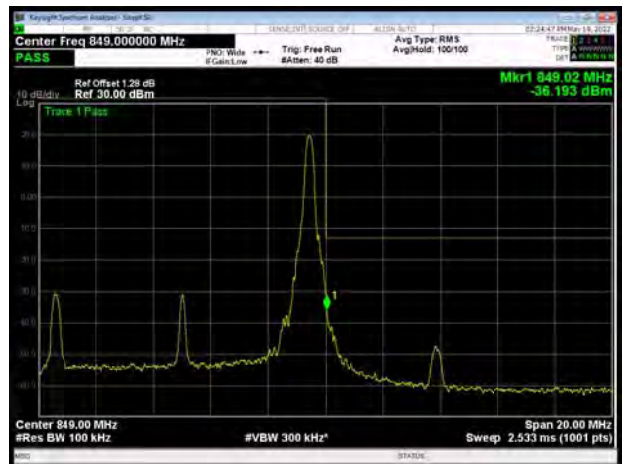
LTE Band 5 16QAM 5MHz CH-High 100%RB



LTE Band 5 16QAM 10MHz CH-Low 1RB

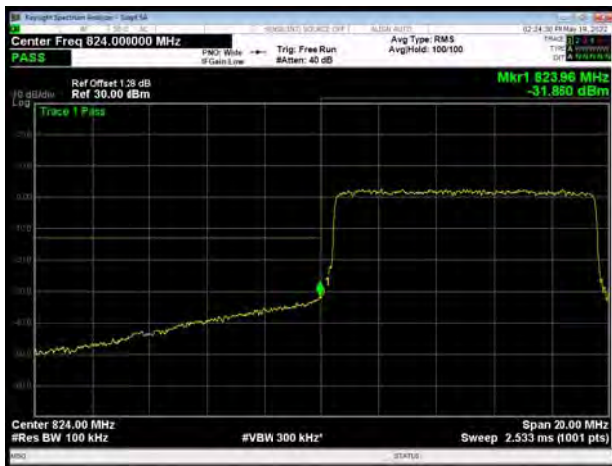


LTE Band 5 16QAM 10MHz CH-High 1RB

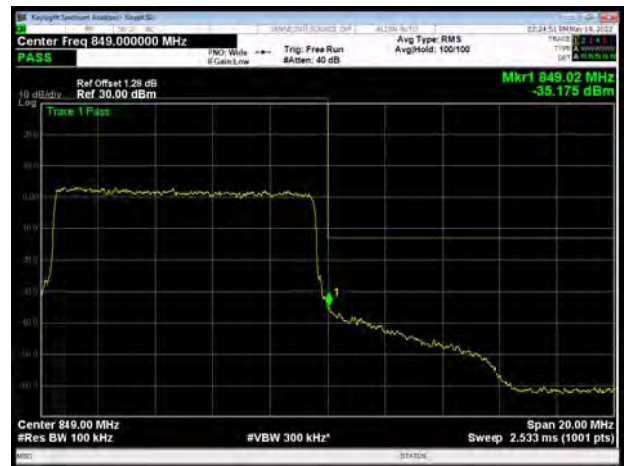




LTE Band 5 16QAM 10MHz CH-Low 100%RB

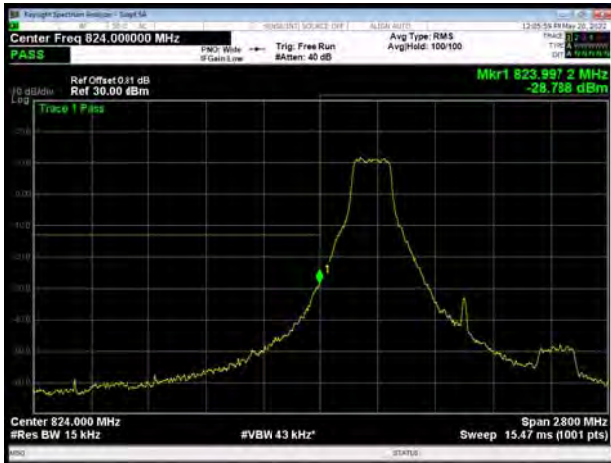


LTE Band 5 16QAM 10MHz CH-High 100%RB

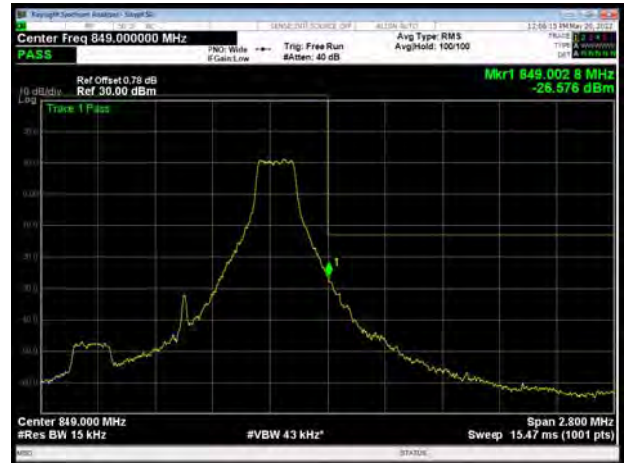




LTE Band 5 64QAM 1.4MHz CH-Low 1RB



LTE Band 5 64QAM 1.4MHz CH-High 1RB



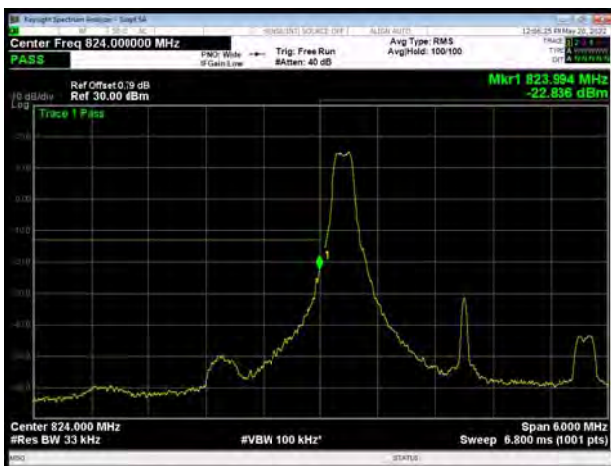
LTE Band 5 64QAM 1.4MHz CH-Low 100%RB



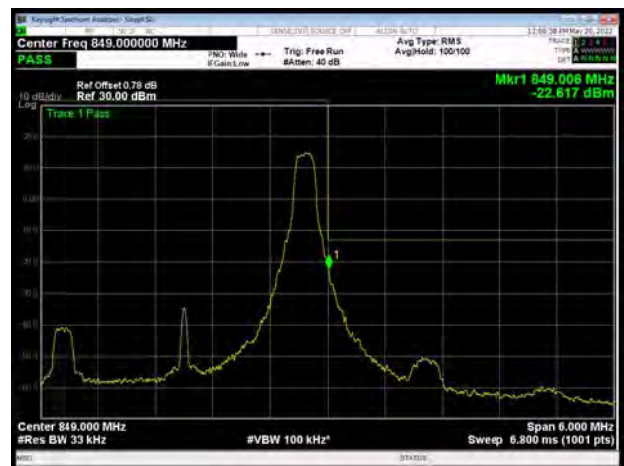
LTE Band 5 64QAM 1.4MHz CH-High 100%RB



LTE Band 5 64QAM 3MHz CH-Low 1RB



LTE Band 5 64QAM 3MHz CH-High 1RB







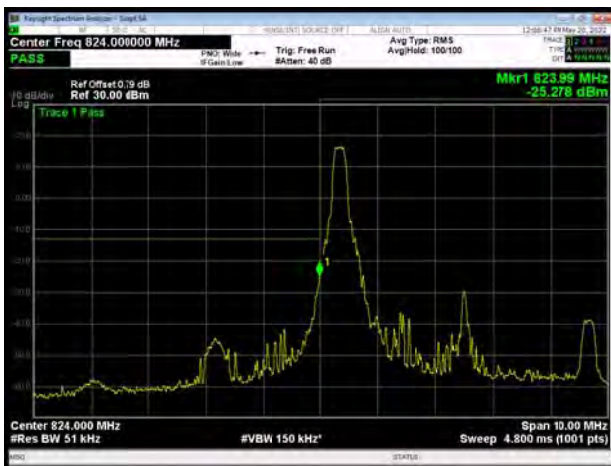
LTE Band 5 64QAM 3MHz CH-Low 100%RB



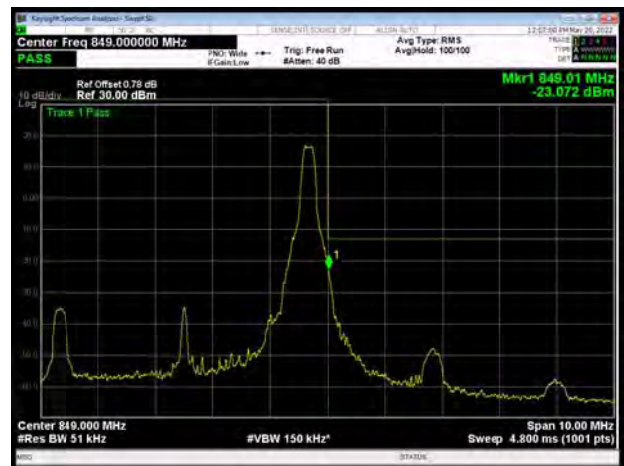
LTE Band 5 64QAM 3MHz CH-High 100%RB



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



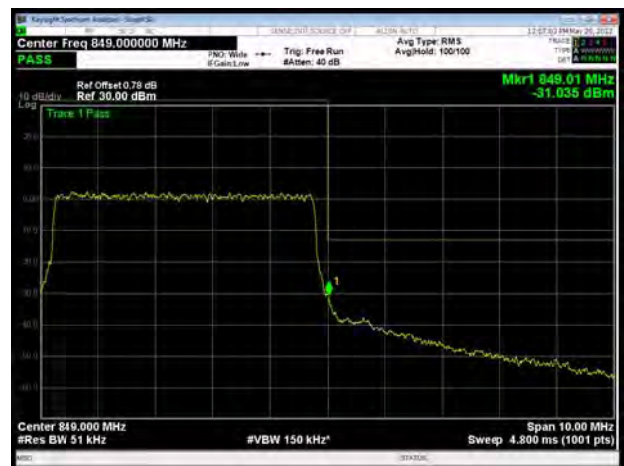
LTE Band 5 64QAM 5MHz CH-High 1RB



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

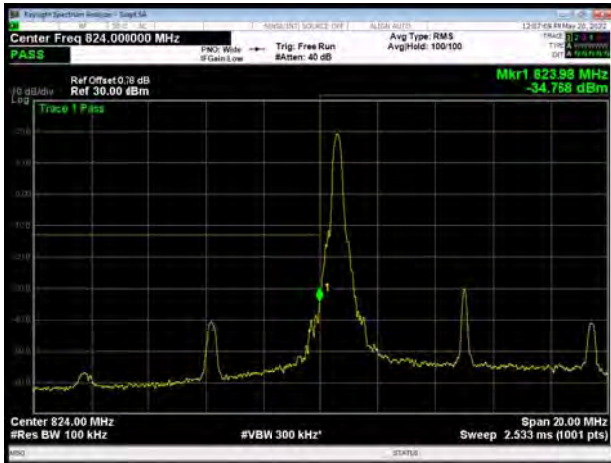


LTE Band 5 64QAM 5MHz CH-High 100%RB

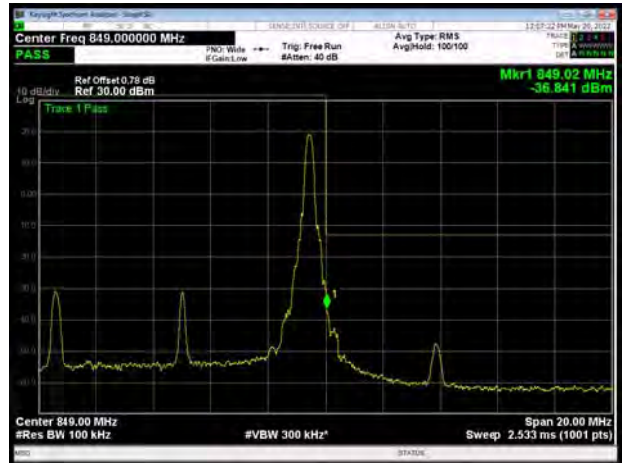




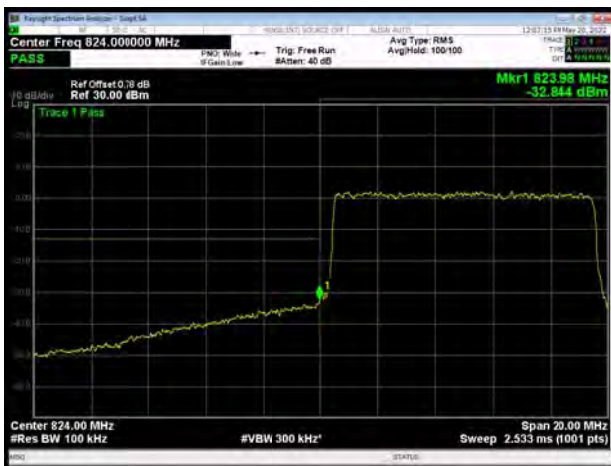
LTE Band 5 64QAM 10MHz CH-Low 1RB



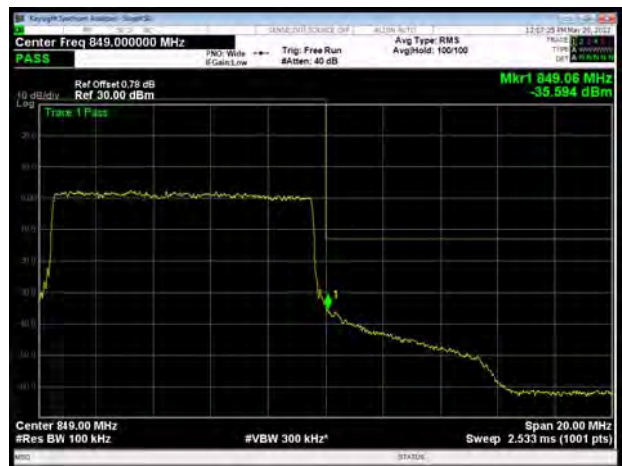
LTE Band 5 64QAM 10MHz CH-High 1RB



LTE Band 5 64QAM 10MHz CH-Low 100%RB



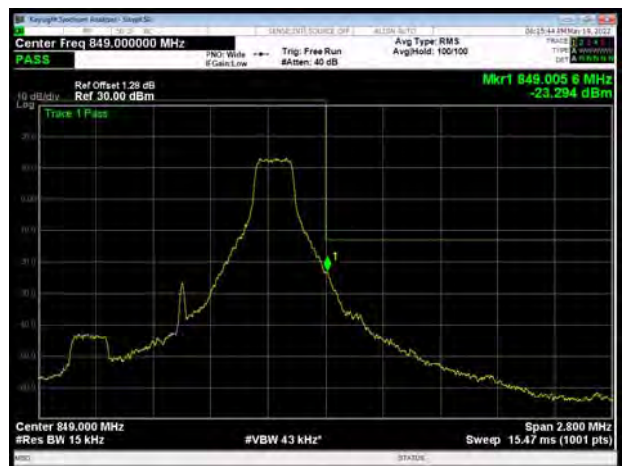
LTE Band 5 64QAM 10MHz CH-High 100%RB



LTE Band 26 QPSK 1.4MHz CH-Low 1RB



LTE Band 26 QPSK 1.4MHz CH-High 1RB



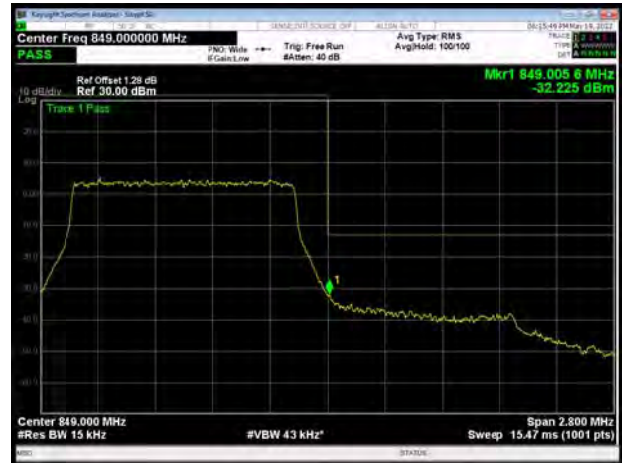




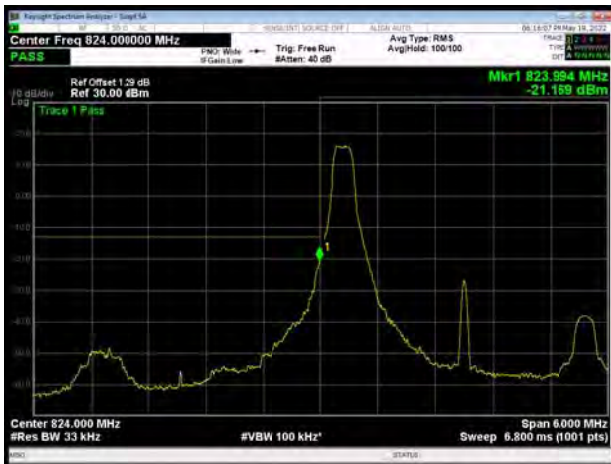
LTE Band 26 QPSK 1.4MHz CH-Low 100%RB



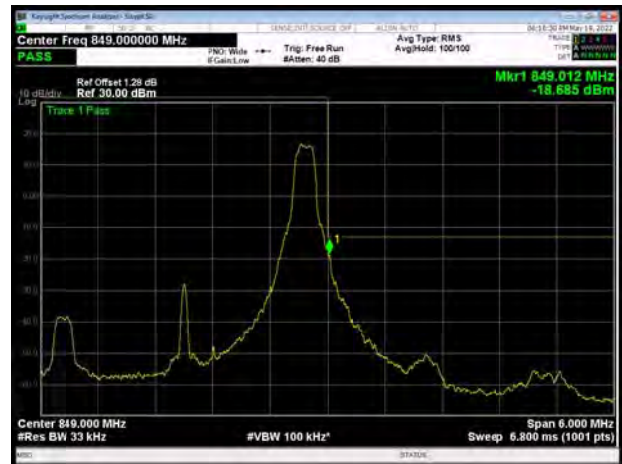
LTE Band 26 QPSK 1.4MHz CH-High 100%RB



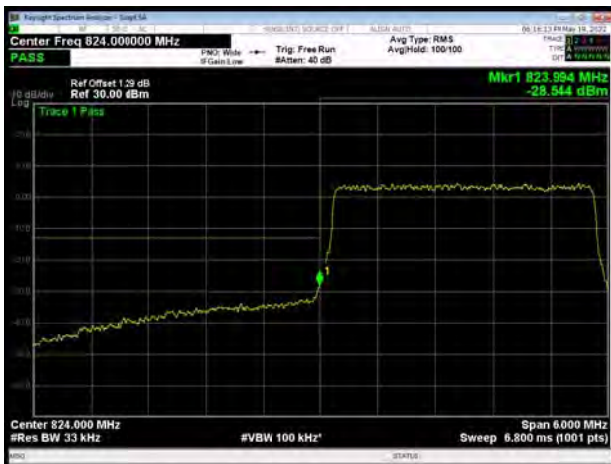
LTE Band 26 QPSK 3MHz CH-Low 1RB



LTE Band 26 QPSK 3MHz CH-High 1RB



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



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

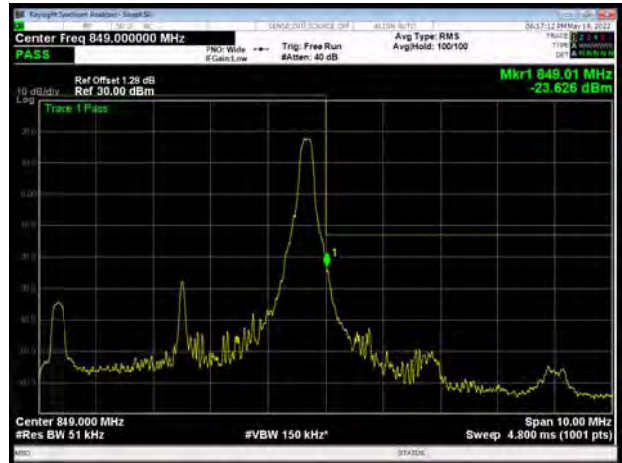




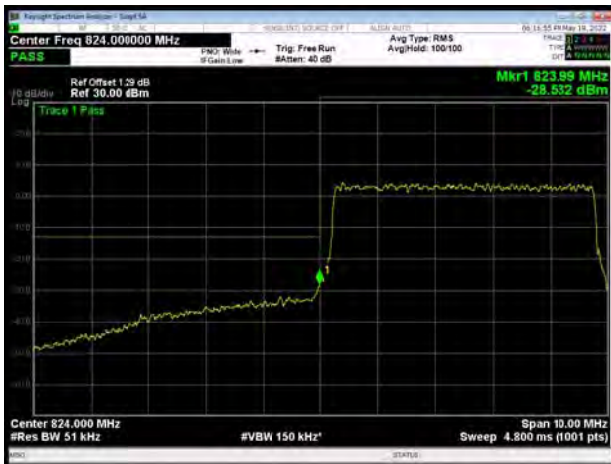
LTE Band 26 QPSK 5MHz CH-Low 1RB



LTE Band 26 QPSK 5MHz CH-High 1RB



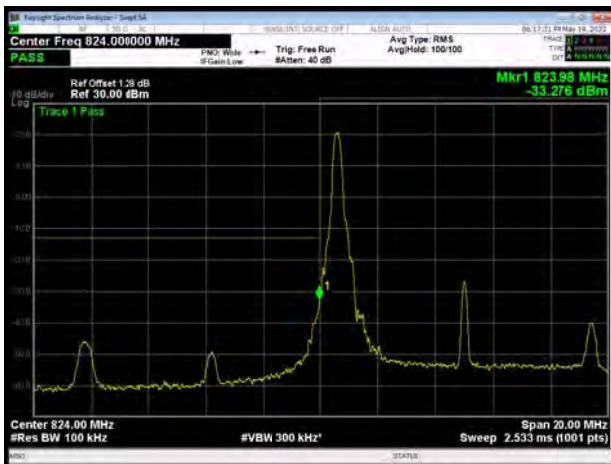
LTE Band 26 QPSK 5MHz CH-Low 100%RB



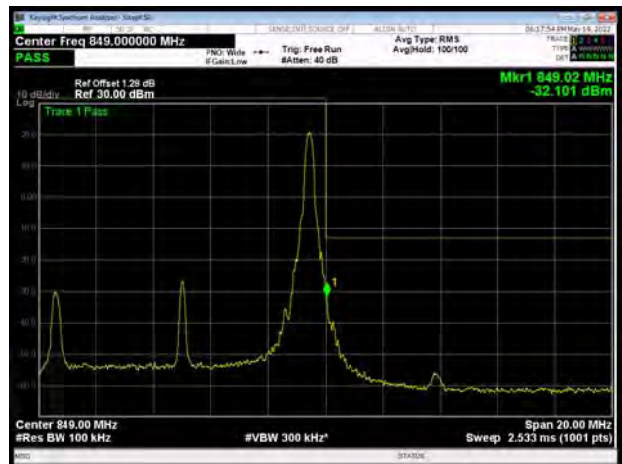
LTE Band 26 QPSK 5MHz CH-High 100%RB



LTE Band 26 QPSK 10MHz CH-Low 1RB



LTE Band 26 QPSK 10MHz CH-High 1RB





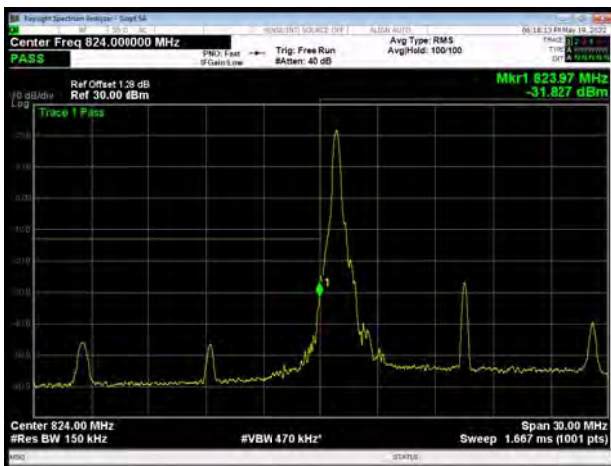
LTE Band 26 QPSK 10MHz CH-Low 100%RB



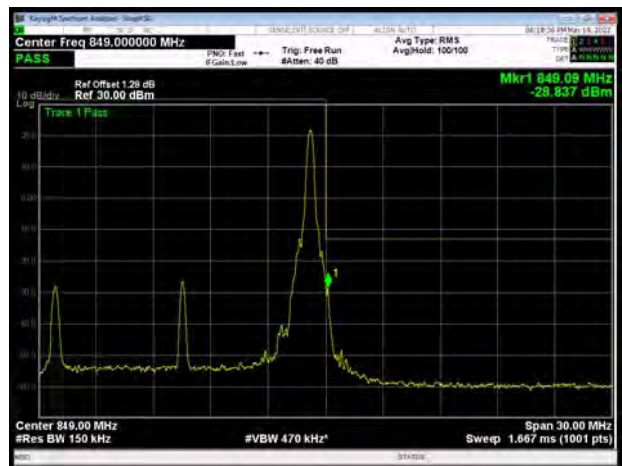
LTE Band 26 QPSK 10MHz CH-High 100%RB



LTE Band 26 QPSK 15MHz CH-Low 1RB



LTE Band 26 QPSK 15MHz CH-High 1RB



LTE Band 26 QPSK 15MHz CH-Low 100%RB



LTE Band 26 QPSK 15MHz CH-High 100%RB



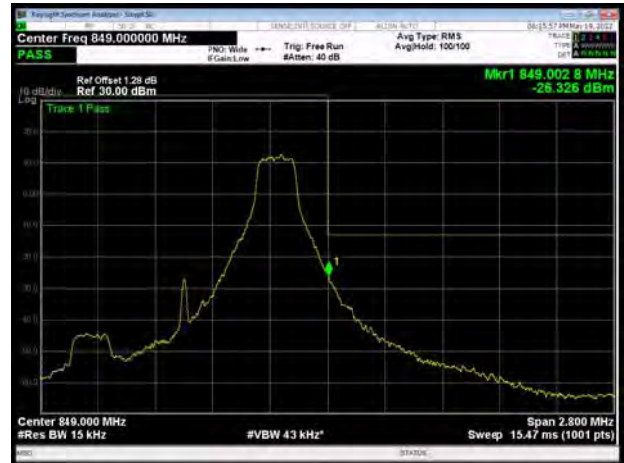




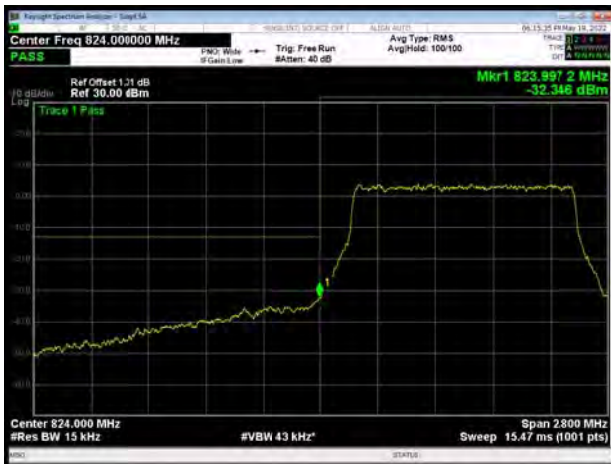
LTE Band 26 16QAM 1.4MHz CH-Low 1RB



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



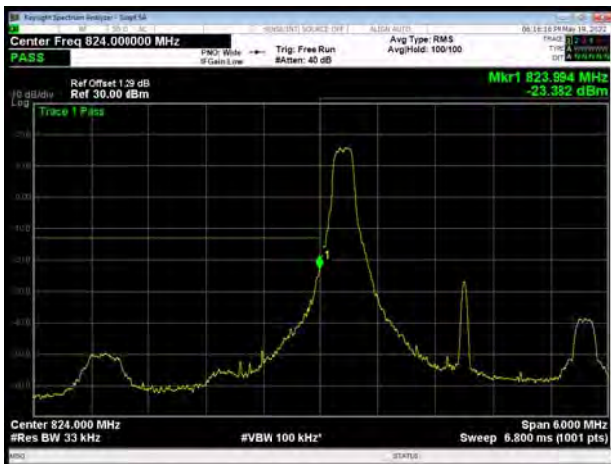
LTE Band 26 16QAM 1.4MHz CH-Low 100%RB



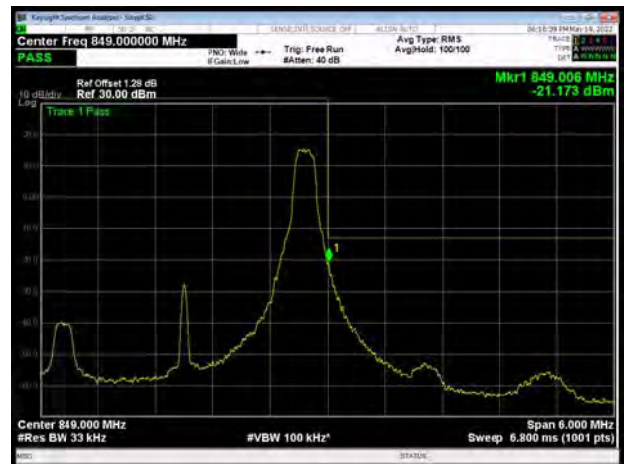
LTE Band 26 16QAM 1.4MHz CH-High 100%RB



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



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

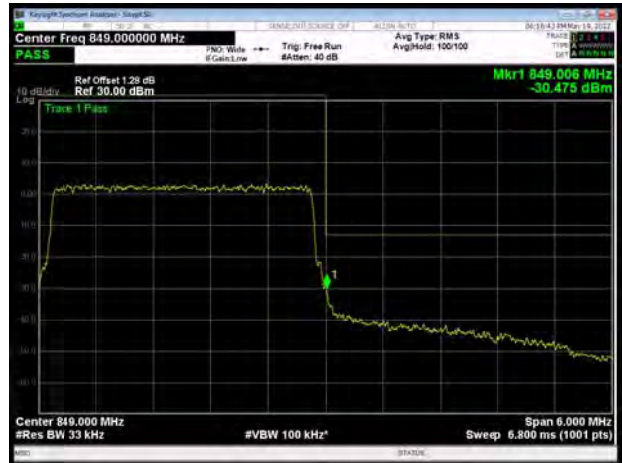




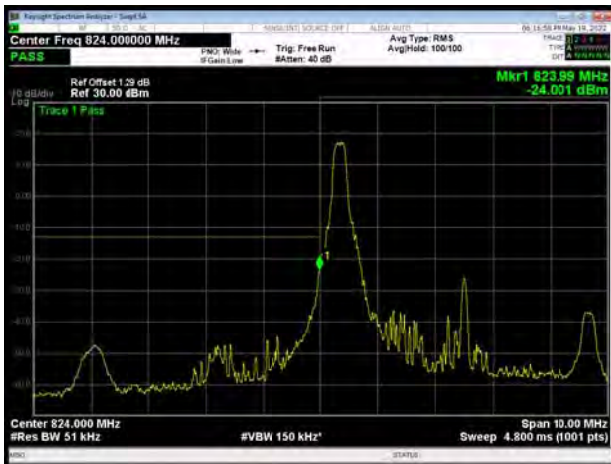
LTE Band 26 16QAM 3MHz CH-Low 100%RB



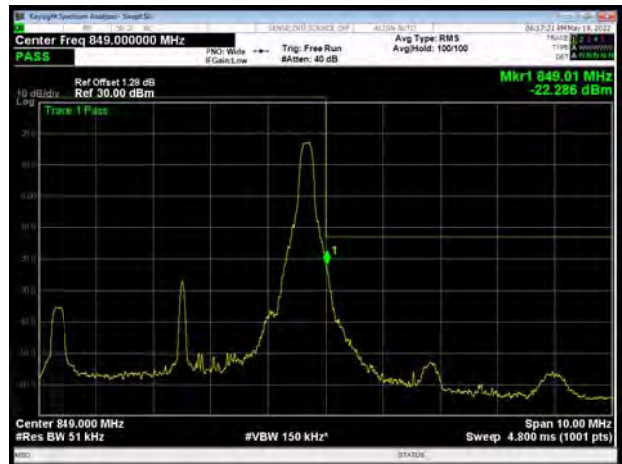
LTE Band 26 16QAM 3MHz CH-High 100%RB



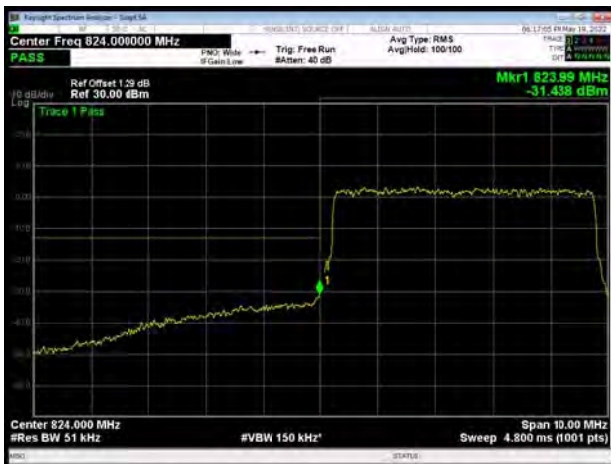
LTE Band 26 16QAM 5MHz CH-Low 1RB



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



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



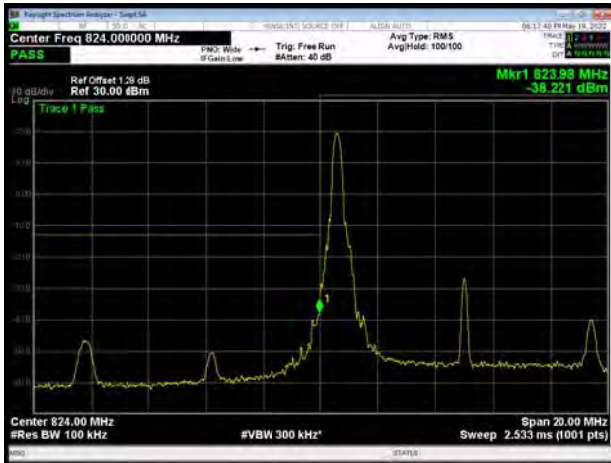
LTE Band 26 16QAM 5MHz CH-High 100%RB



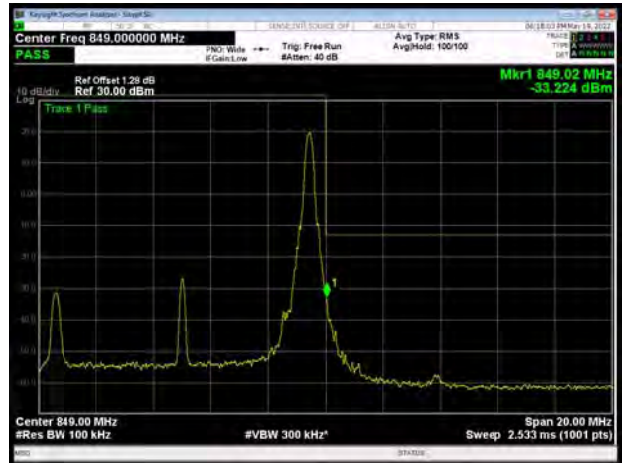




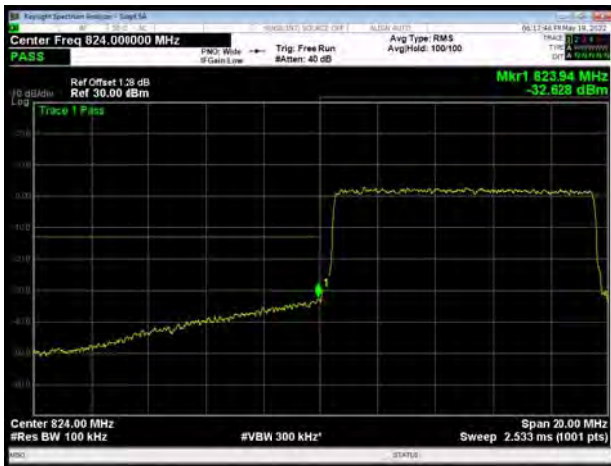
LTE Band 26 16QAM 10MHz CH-Low 1RB



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



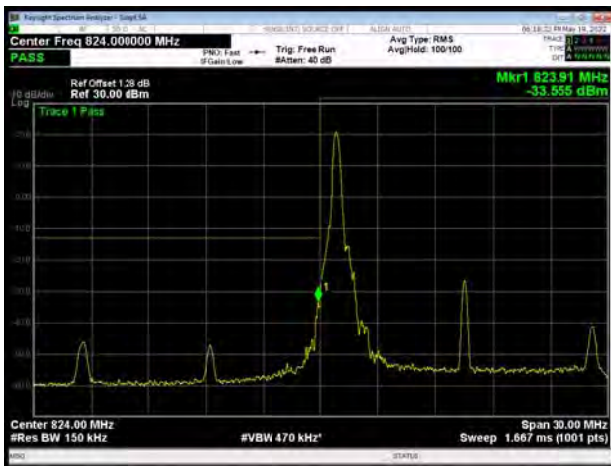
LTE Band 26 16QAM 10MHz CH-Low 100%RB



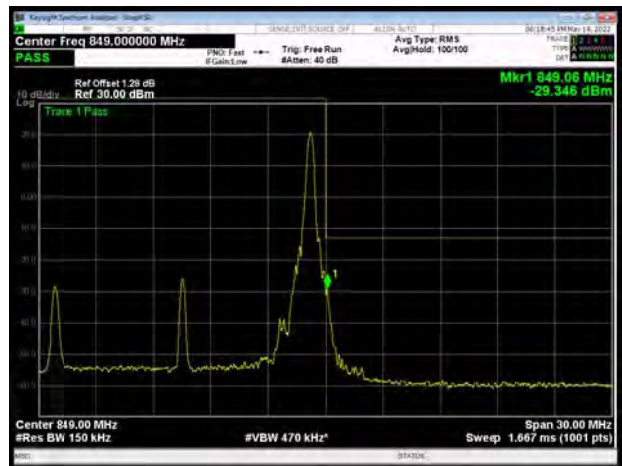
LTE Band 26 16QAM 10MHz CH-High 100%RB



LTE Band 26 16QAM 15MHz CH-Low 1RB



LTE Band 26 16QAM 15MHz CH-High 1RB





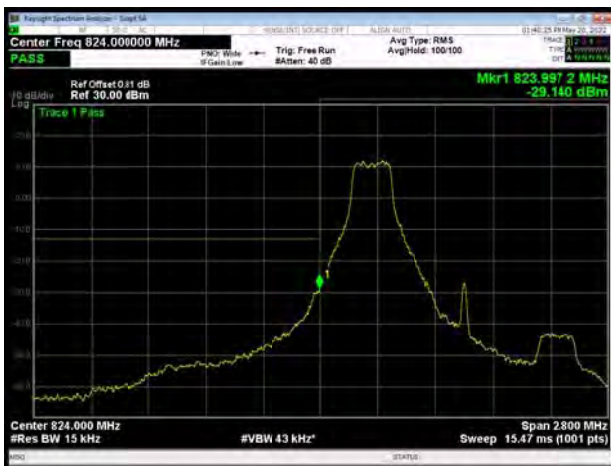
LTE Band 26 16QAM 15MHz CH-Low 100%RB



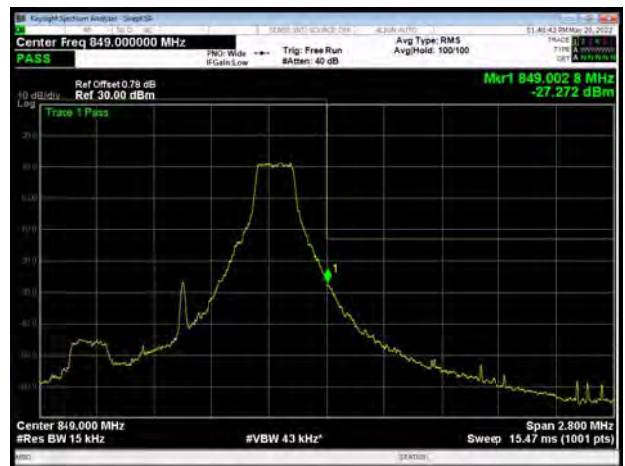
LTE Band 26 16QAM 15MHz CH-High 100%RB



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



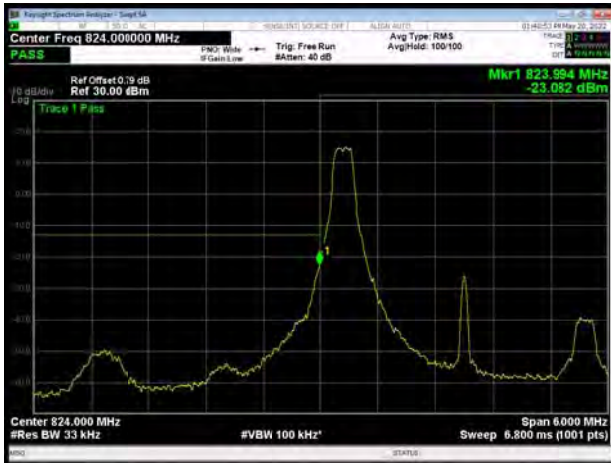
LTE Band 26 64QAM 1.4MHz CH-High 100%RB



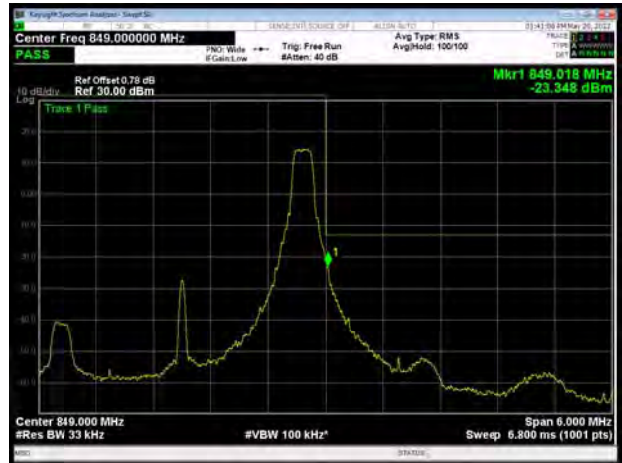




LTE Band 26 64QAM 3MHz CH-Low 1RB



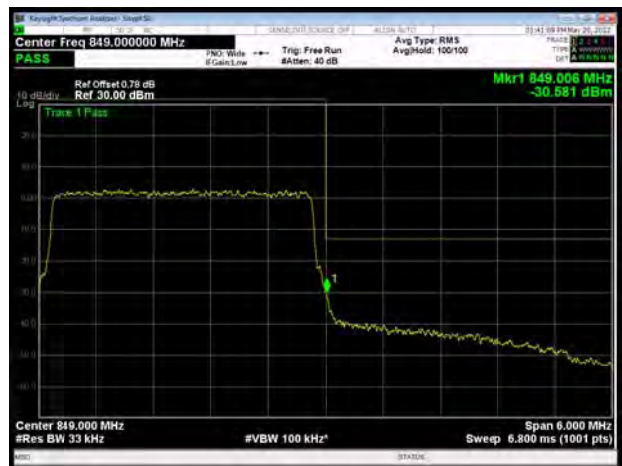
LTE Band 26 64QAM 3MHz CH-High 1RB



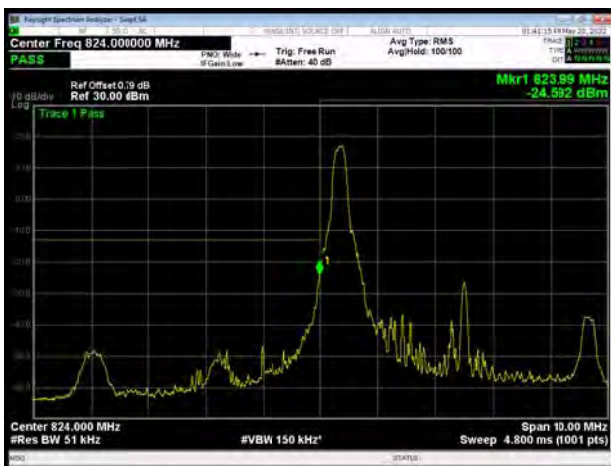
LTE Band 26 64QAM 3MHz CH-Low 100%RB



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



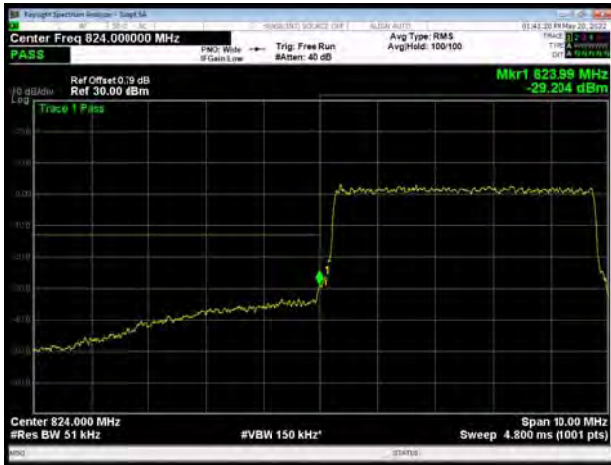
LTE Band 26 64QAM 5MHz CH-Low 1RB



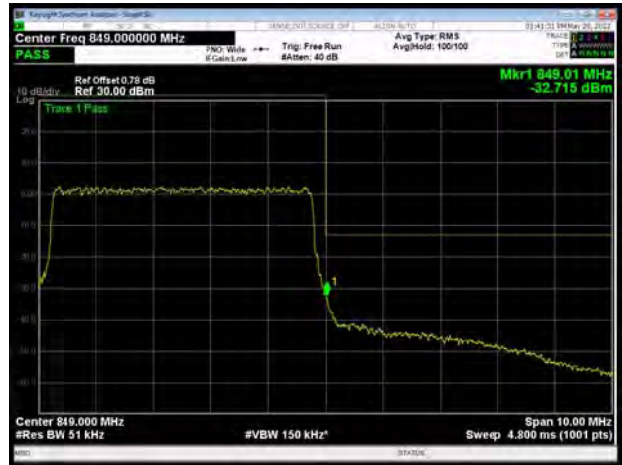
LTE Band 26 64QAM 5MHz CH-High 1RB



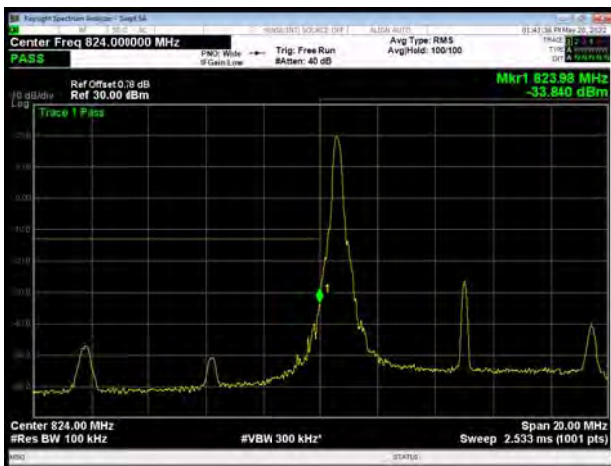
LTE Band 26 64QAM 5MHz CH-Low 100%RB



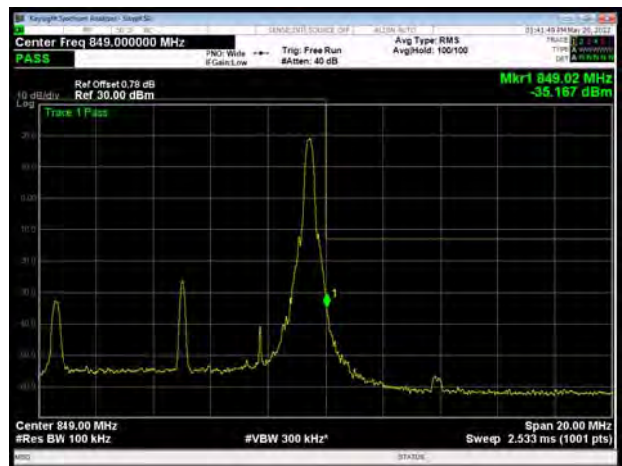
LTE Band 26 64QAM 5MHz CH-High 100%RB



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



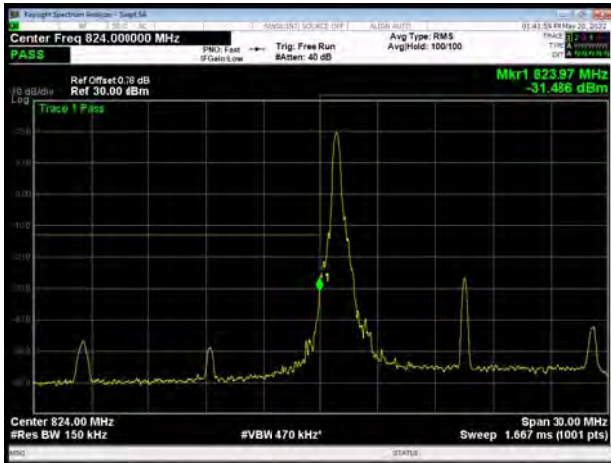
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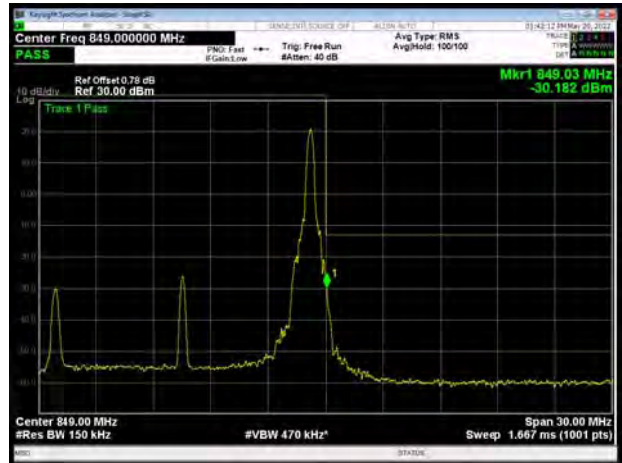




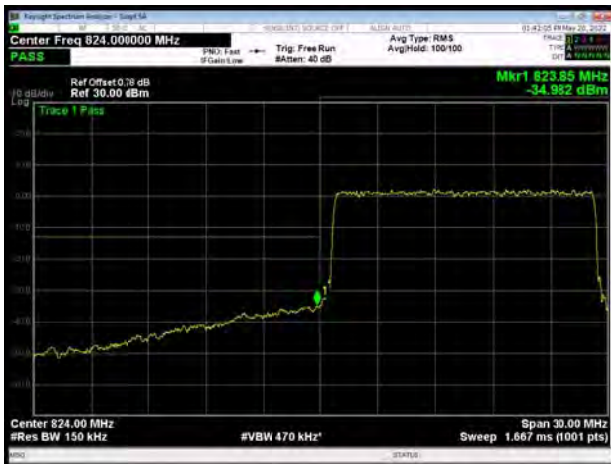
LTE Band 26 64QAM 15MHz CH-Low 1RB



LTE Band 26 64QAM 15MHz CH-High 1RB



LTE Band 26 64QAM 15MHz CH-Low 100%RB



LTE Band 26 64QAM 15MHz CH-High 100%RB



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

Mode	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
GSM 850 (GMSK)	128	824.2	32.23	29.60	2.63	≤13	PASS
	190	836.6	32.08	29.45	2.63	≤13	PASS
	251	848.8	31.94	29.30	2.64	≤13	PASS
GPRS 850 (GMSK)	128	824.2	32.29	29.61	2.68	≤13	PASS
	190	836.6	32.15	29.51	2.64	≤13	PASS
	251	848.8	32.02	29.38	2.64	≤13	PASS
EGPRS 850 (8PSK)	128	824.2	29.77	23.95	5.82	≤13	PASS
	190	836.6	29.64	23.86	5.78	≤13	PASS
	251	848.8	29.56	23.78	5.78	≤13	PASS
WCDMA Band V (RMC)	4132	826.4	26.71	23.64	3.07	≤13	PASS
	4183	836.6	26.41	23.37	3.04	≤13	PASS
	4233	846.6	25.15	21.88	3.27	≤13	PASS

LTE Band 5								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	20407	824.7	27.25	21.83	5.42	≤13	PASS
		20525	836.5	27.12	21.70	5.42	≤13	PASS
		20643	848.3	26.77	21.63	5.14	≤13	PASS
	3	20415	825.5	27.48	21.84	5.64	≤13	PASS
		20525	836.5	27.17	21.71	5.46	≤13	PASS
		20635	847.5	27.15	21.66	5.49	≤13	PASS
	5	20425	826.5	27.47	21.85	5.62	≤13	PASS
		20525	836.5	27.16	21.76	5.40	≤13	PASS
		20625	846.5	27.25	21.66	5.59	≤13	PASS
	10	20450	829	27.49	21.93	5.56	≤13	PASS
		20525	836.5	27.16	21.80	5.36	≤13	PASS
		20600	844	27.26	21.81	5.45	≤13	PASS
16QAM	1.4	20407	824.7	27.17	20.86	6.31	≤13	PASS
		20525	836.5	26.88	20.66	6.22	≤13	PASS
		20643	848.3	26.66	20.65	6.01	≤13	PASS
	3	20415	825.5	27.29	20.84	6.45	≤13	PASS



		20525	836.5	26.99	20.68	6.31	≤13	PASS
		20635	847.5	27.06	20.68	6.38	≤13	PASS
		20425	826.5	27.23	20.84	6.39	≤13	PASS
	5	20525	836.5	26.99	20.73	6.26	≤13	PASS
		20625	846.5	27.12	20.68	6.44	≤13	PASS
		20450	829	27.26	20.85	6.41	≤13	PASS
	10	20525	836.5	27.04	20.79	6.25	≤13	PASS
		20600	844	27.11	20.77	6.34	≤13	PASS
		20407	824.7	26.61	20.31	6.30	≤13	PASS
64QAM	1.4	20525	836.5	26.34	20.17	6.17	≤13	PASS
		20643	848.3	26.05	20.20	5.85	≤13	PASS
		20415	825.5	26.70	20.26	6.44	≤13	PASS
	3	20525	836.5	26.40	20.19	6.21	≤13	PASS
		20635	847.5	26.44	20.13	6.31	≤13	PASS
		20425	826.5	26.69	20.31	6.38	≤13	PASS
	5	20525	836.5	26.41	20.18	6.23	≤13	PASS
		20625	846.5	26.54	20.14	6.40	≤13	PASS
		20450	829	26.66	20.29	6.37	≤13	PASS
	10	20525	836.5	26.44	20.22	6.22	≤13	PASS
		20600	844	26.53	20.21	6.32	≤13	PASS
		20407	824.7	26.61	20.31	6.30	≤13	PASS

LTE Band 26								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	26797	824.7	27.20	21.99	5.21	≤13	PASS
		26915	836.5	26.99	21.91	5.08	≤13	PASS
		27033	848.3	26.76	21.85	4.91	≤13	PASS
	3	26805	825.5	27.36	21.97	5.39	≤13	PASS
		26915	836.5	27.12	21.98	5.14	≤13	PASS
		27025	847.5	27.12	21.91	5.21	≤13	PASS
	5	26815	826.5	27.32	22.02	5.30	≤13	PASS
		26915	836.5	27.06	21.92	5.14	≤13	PASS
		27015	846.5	27.19	21.92	5.27	≤13	PASS
	10	26840	829	27.28	21.99	5.29	≤13	PASS
		26915	836.5	27.05	22.06	4.99	≤13	PASS
		26990	844	27.16	21.97	5.19	≤13	PASS
	15	26865	831.5	27.48	21.86	5.62	≤13	PASS
		26915	836.5	27.39	21.88	5.51	≤13	PASS
		26965	841.5	27.46	21.86	5.60	≤13	PASS



16QAM	1.4	26797	824.7	27.07	21.03	6.04	≤13	PASS
		26915	836.5	26.98	20.98	6.00	≤13	PASS
		27033	848.3	26.65	20.87	5.78	≤13	PASS
	3	26805	825.5	27.18	20.97	6.21	≤13	PASS
		26915	836.5	26.95	20.97	5.98	≤13	PASS
		27025	847.5	26.99	20.93	6.06	≤13	PASS
	5	26815	826.5	27.11	20.99	6.12	≤13	PASS
		26915	836.5	26.90	20.93	5.97	≤13	PASS
		27015	846.5	27.06	20.97	6.09	≤13	PASS
	10	26840	829	27.11	20.99	6.12	≤13	PASS
		26915	836.5	26.94	21.08	5.86	≤13	PASS
		26990	844	26.96	20.91	6.05	≤13	PASS
	15	26865	831.5	27.07	20.85	6.22	≤13	PASS
		26915	836.5	27.04	20.92	6.12	≤13	PASS
		26965	841.5	27.02	20.88	6.14	≤13	PASS
64QAM	1.4	26797	824.7	26.53	20.49	6.04	≤13	PASS
		26915	836.5	26.35	20.44	5.91	≤13	PASS
		27033	848.3	26.05	20.33	5.72	≤13	PASS
	3	26805	825.5	26.63	20.45	6.18	≤13	PASS
		26915	836.5	26.35	20.43	5.92	≤13	PASS
		27025	847.5	26.43	20.41	6.02	≤13	PASS
	5	26815	826.5	26.57	20.49	6.08	≤13	PASS
		26915	836.5	26.27	20.39	5.88	≤13	PASS
		27015	846.5	26.50	20.41	6.09	≤13	PASS
	10	26840	829	26.51	20.45	6.06	≤13	PASS
		26915	836.5	26.37	20.55	5.82	≤13	PASS
		26990	844	26.47	20.42	6.05	≤13	PASS
	15	26865	831.5	26.50	20.32	6.18	≤13	PASS
		26915	836.5	26.43	20.36	6.07	≤13	PASS
		26965	841.5	26.43	20.31	6.12	≤13	PASS



## 6.5. Frequency Stability

GSM850						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
Temperature	Voltage	GMSK	8PSK	GMSK	8PSK	
Normal (25°C)	Normal	8.40	1.54	0.01004	0.00184	PASS
Extreme (35°C)		5.05	9.17	0.00604	0.01096	PASS
Extreme (30°C)		3.53	9.97	0.00422	0.01192	PASS
Extreme (20°C)		8.72	2.94	0.01042	0.00352	PASS
Extreme (10°C)		10.37	17.31	0.01239	0.02069	PASS
Extreme (0°C)		1.86	2.86	0.00222	0.00342	PASS
25°C	LV	3.76	9.12	0.00449	0.01090	PASS
	HV	16.81	6.01	0.02009	0.00719	PASS

WCDMA Band V						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
Temperature	Voltage	BPSK	QPSK	BPSK	QPSK	
Normal (25°C)	Normal	10.49	7.68	0.01254	0.00918	PASS
Extreme (35°C)		5.28	4.87	0.00631	0.00582	PASS
Extreme (30°C)		9.17	4.41	0.01096	0.00528	PASS
Extreme (20°C)		5.99	17.04	0.00716	0.02037	PASS
Extreme (10°C)		14.40	10.44	0.01721	0.01248	PASS
Extreme (0°C)		1.64	17.80	0.00196	0.02127	PASS
25°C	LV	6.85	6.50	0.00819	0.00777	PASS
	HV	7.59	2.72	0.00907	0.00325	PASS



LTE Band 5								
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°C)	Normal	10.85	9.44	4.48	0.01297	0.01129	0.00535	PASS
Extreme (35°C)		5.79	10.49	7.03	0.00692	0.01254	0.00841	PASS
Extreme (30°C)		2.52	7.52	15.13	0.00302	0.00899	0.01808	PASS
Extreme (20°C)		13.86	4.92	3.96	0.01657	0.00588	0.00474	PASS
Extreme (10°C)		4.62	10.45	7.67	0.00552	0.01249	0.00917	PASS
Extreme (0°C)		11.89	2.00	6.42	0.01422	0.00239	0.00767	PASS
25°C		LV	7.39	14.70	17.31	0.00883	0.01757	0.02069
	HV	16.54	14.29	1.72	0.01977	0.01708	0.00206	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°C)	Normal	17.91	16.18	14.49	0.02141	0.01935	0.01733	PASS
Extreme (35°C)		1.57	7.76	10.13	0.00188	0.00928	0.01211	PASS
Extreme (30°C)		3.89	13.84	16.44	0.00465	0.01655	0.01965	PASS
Extreme (20°C)		7.42	7.02	4.22	0.00887	0.00839	0.00504	PASS
Extreme (10°C)		4.16	16.59	5.21	0.00497	0.01983	0.00623	PASS
Extreme (0°C)		12.24	4.40	15.92	0.01463	0.00526	0.01904	PASS
25°C		LV	12.37	6.17	8.00	0.01479	0.00738	0.00956
	HV	6.86	10.11	15.29	0.00820	0.01208	0.01828	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	
Normal (25°C)	Normal	10.99	4.71	10.46	0.01314	0.00563	0.01250	PASS
Extreme (35°C)		14.02	13.02	3.98	0.01676	0.01557	0.00475	PASS
Extreme (30°C)		7.68	1.69	10.37	0.00918	0.00202	0.01240	PASS
Extreme (20°C)		3.14	7.06	12.98	0.00375	0.00844	0.01552	PASS
Extreme (10°C)		10.02	9.25	14.93	0.01198	0.01105	0.01785	PASS
Extreme (0°C)		16.66	4.08	12.63	0.01992	0.00488	0.01510	PASS
25°C		LV	11.55	10.78	2.35	0.01381	0.01289	0.00281
	HV	11.53	12.17	16.69	0.01378	0.01455	0.01995	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°C)	Normal	11.35	15.16	8.67	0.01357	0.01812	0.01036	PASS



Extreme (35°C)		5.11	1.99	15.72	0.00611	0.00238	0.01880	PASS
Extreme (30°C)		11.96	12.10	10.83	0.01430	0.01447	0.01295	PASS
Extreme (20°C)		1.64	7.27	15.84	0.00196	0.00870	0.01893	PASS
Extreme (10°C)		15.01	14.06	9.62	0.01795	0.01680	0.01150	PASS
Extreme (0°C)		17.17	8.57	6.38	0.02053	0.01025	0.00763	PASS
25°C	LV	4.38	3.78	6.16	0.00524	0.00452	0.00737	PASS
	HV	8.78	1.94	2.29	0.01050	0.00232	0.00274	PASS

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°C)	Normal	15.87	7.76	15.11	0.01897	0.00928	0.01806	PASS
Extreme (35°C)		14.90	3.93	10.06	0.01781	0.00470	0.01203	PASS
Extreme (30°C)		14.89	15.73	17.46	0.01780	0.01880	0.02088	PASS
Extreme (20°C)		16.06	11.37	4.47	0.01920	0.01359	0.00535	PASS
Extreme (10°C)		7.02	1.40	14.13	0.00839	0.00167	0.01689	PASS
Extreme (0°C)		4.88	6.27	17.17	0.00583	0.00749	0.02052	PASS
25°C	LV	7.82	14.61	10.74	0.00935	0.01747	0.01284	PASS
	HV	15.51	12.68	5.15	0.01854	0.01516	0.00616	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°C)	Normal	8.09	2.47	4.01	0.00967	0.00296	0.00479	PASS
Extreme (35°C)		2.30	16.12	11.41	0.00275	0.01927	0.01365	PASS
Extreme (30°C)		17.29	14.52	6.69	0.02067	0.01736	0.00800	PASS
Extreme (20°C)		12.95	4.44	13.44	0.01548	0.00530	0.01606	PASS
Extreme (10°C)		7.19	7.69	11.99	0.00860	0.00919	0.01433	PASS
Extreme (0°C)		5.39	7.03	5.14	0.00644	0.00840	0.00614	PASS
25°C	LV	13.44	5.84	14.29	0.01606	0.00698	0.01708	PASS
	HV	9.75	16.27	16.69	0.01166	0.01945	0.01995	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	
Normal (25°C)	Normal	2.56	2.99	14.45	0.00306	0.00357	0.01728	PASS
Extreme (35°C)		10.46	16.28	6.15	0.01250	0.01946	0.00735	PASS
Extreme (30°C)		3.01	6.47	12.56	0.00360	0.00774	0.01501	PASS
Extreme (20°C)		8.65	10.32	7.05	0.01035	0.01234	0.00843	PASS
Extreme (10°C)		14.76	7.00	8.33	0.01765	0.00837	0.00996	PASS
Extreme (0°C)		8.42	9.89	13.34	0.01007	0.01182	0.01595	PASS



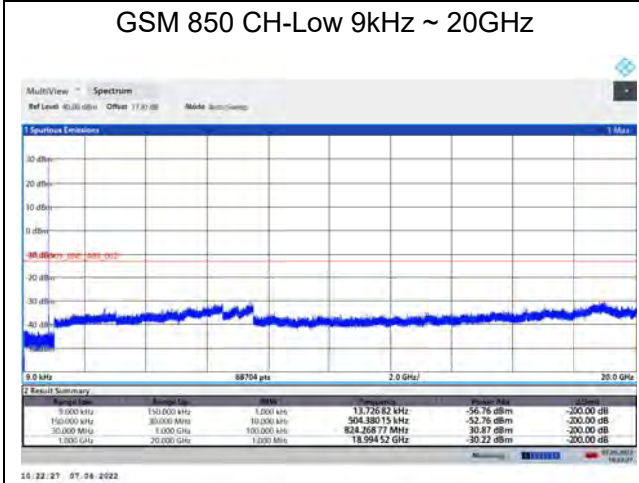
25°C	LV	8.77	1.92	12.37	0.01048	0.00230	0.01479	PASS
	HV	9.40	9.38	14.49	0.01124	0.01121	0.01732	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	5.43	4.69	17.62	0.00649	0.00561	0.02106	PASS
Extreme (35°C)		13.82	4.58	17.41	0.01653	0.00548	0.02082	PASS
Extreme (30°C)		15.89	10.49	11.65	0.01900	0.01254	0.01393	PASS
Extreme (20°C)		15.12	17.37	16.99	0.01808	0.02077	0.02031	PASS
Extreme (10°C)		17.93	9.37	9.45	0.02144	0.01120	0.01130	PASS
Extreme (0°C)		12.58	15.57	11.19	0.01504	0.01861	0.01337	PASS
25°C	LV	17.56	7.74	10.89	0.02100	0.00925	0.01302	PASS
	HV	9.56	16.84	1.74	0.01143	0.02013	0.00208	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	3.15	6.29	12.01	0.00376	0.00752	0.01435	PASS
Extreme (35°C)		10.67	17.79	16.74	0.01275	0.02127	0.02001	PASS
Extreme (30°C)		17.96	12.19	3.88	0.02147	0.01457	0.00464	PASS
Extreme (20°C)		17.84	17.06	12.14	0.02132	0.02039	0.01452	PASS
Extreme (10°C)		15.10	7.31	2.55	0.01805	0.00874	0.00305	PASS
Extreme (0°C)		17.05	9.57	3.15	0.02039	0.01144	0.00376	PASS
25°C	LV	7.22	5.20	6.46	0.00863	0.00622	0.00772	PASS
	HV	3.44	12.72	6.56	0.00411	0.01520	0.00785	PASS



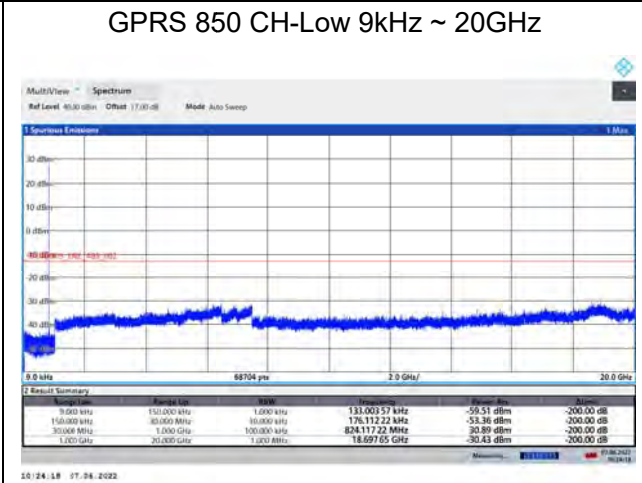
### 6.6. Spurious Emissions at Antenna Terminals

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions more than 20 dB below the limit are not reported. The signal beyond the limit is carrier.

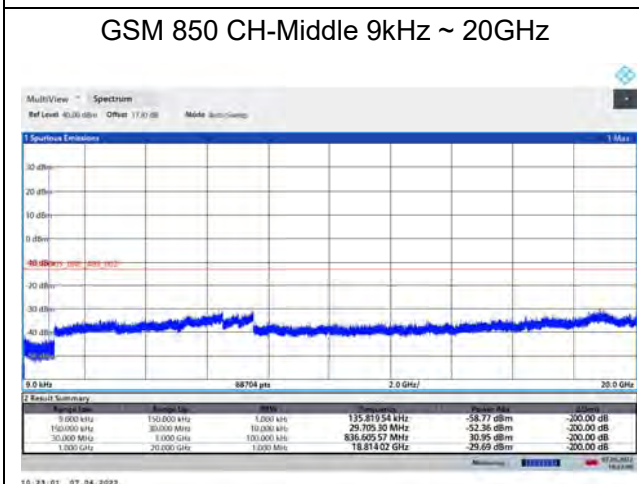
GSM 850 CH-Low 9kHz ~ 20GHz



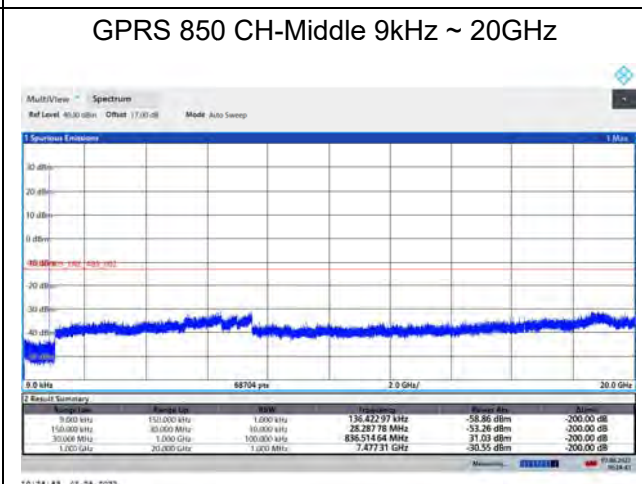
GPRS 850 CH-Low 9kHz ~ 20GHz



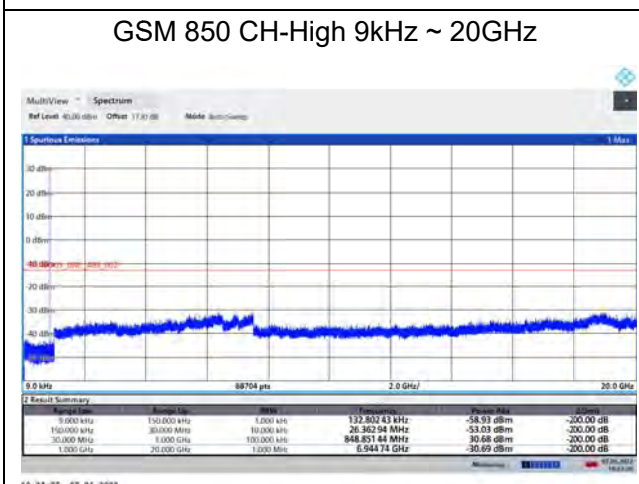
GSM 850 CH-Middle 9kHz ~ 20GHz



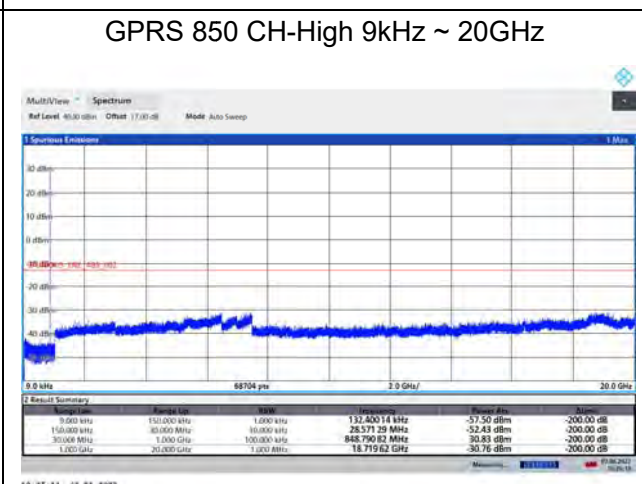
GPRS 850 CH-Middle 9kHz ~ 20GHz



GSM 850 CH-High 9kHz ~ 20GHz

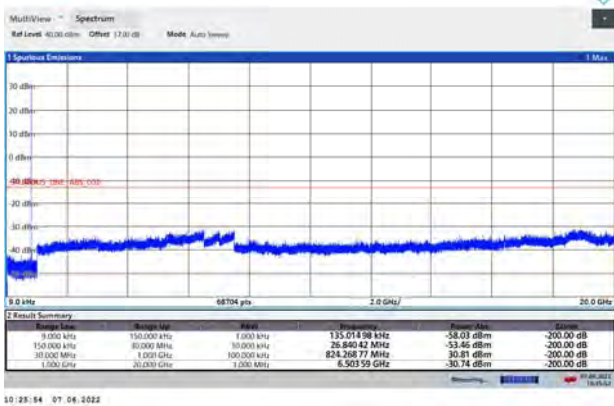


GPRS 850 CH-High 9kHz ~ 20GHz



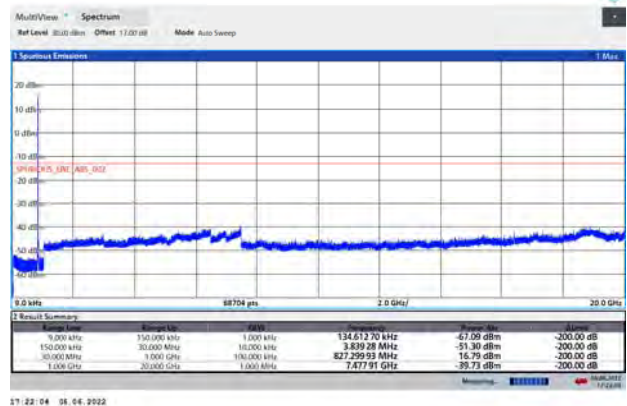


### EGPRS 850 CH-Low 9kHz ~ 20GHz



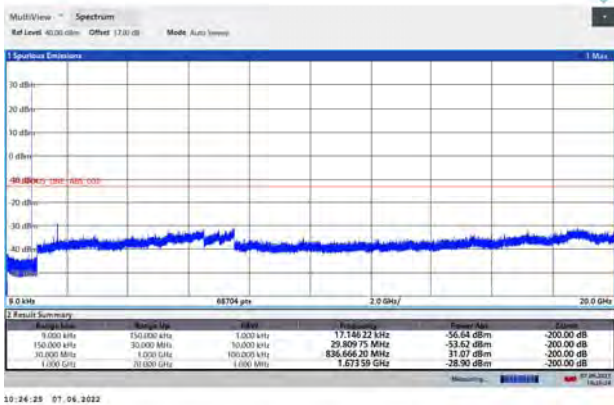
10:25:54 07.04.2022

### WCDMA BAND V CH-Low 9kHz ~ 20GHz



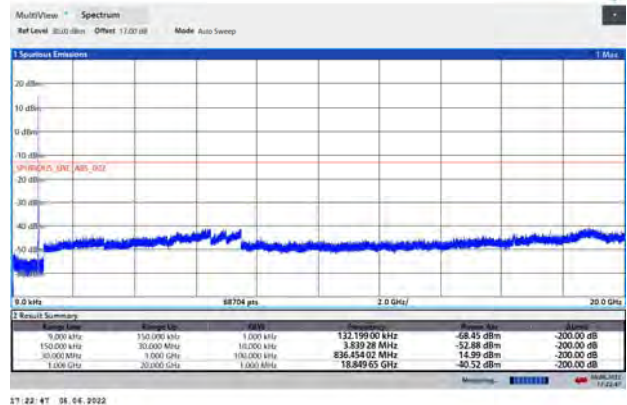
17:22:04 08.04.2022

### EGPRS 850 CH-Middle 9kHz ~ 20GHz



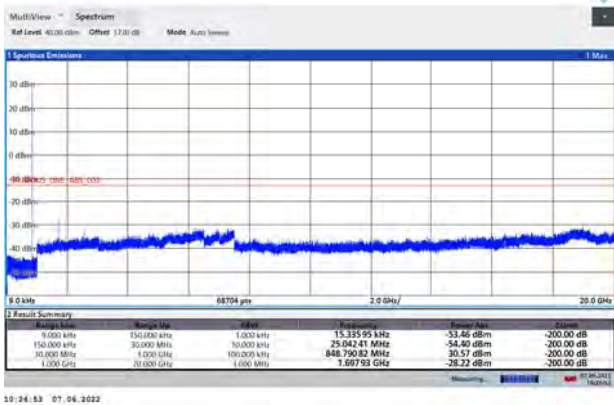
10:24:25 07.04.2022

### WCDMA BAND V CH-Middle 9kHz ~ 20GHz



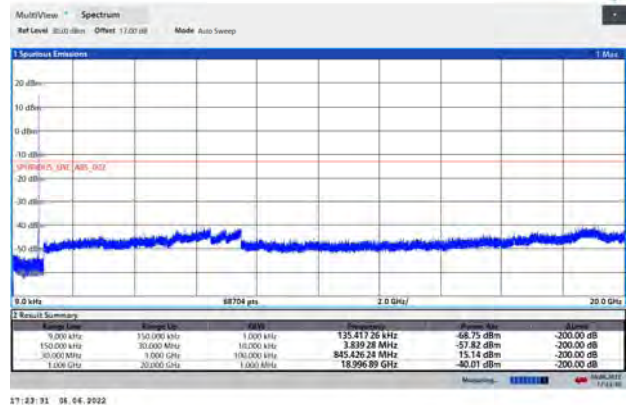
17:22:47 08.04.2022

### EGPRS 850 CH-High 9kHz ~ 20GHz



10:24:53 07.04.2022

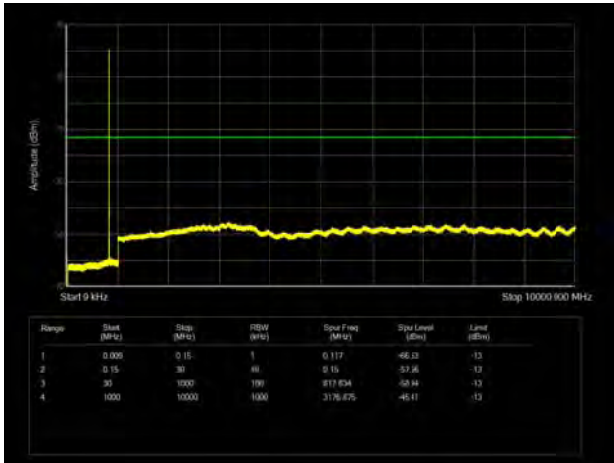
### WCDMA BAND V CH-High 9kHz ~ 20GHz



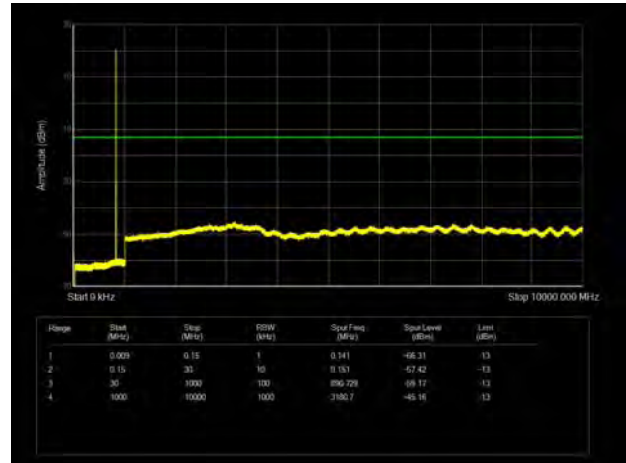
17:23:31 08.04.2022



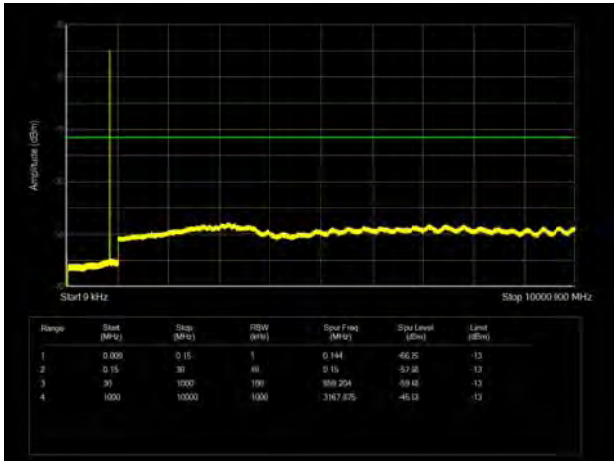
LTE Band 5 1.4MHz CH-Low 9kHz~10GHz



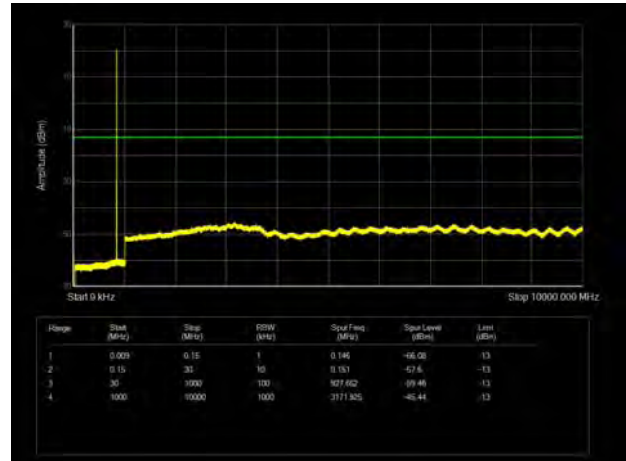
LTE Band 5 3MHz CH-Low 9kHz~10GHz



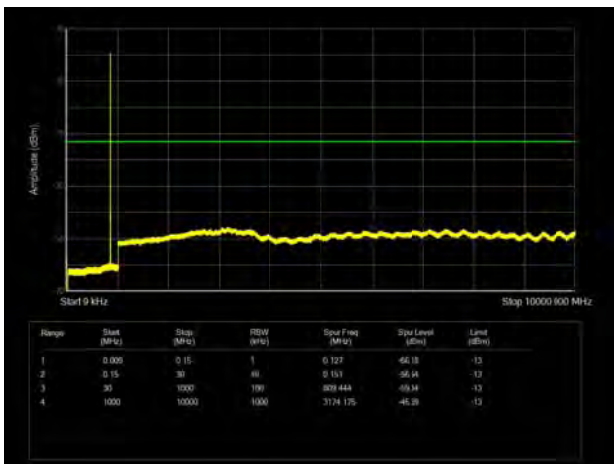
LTE Band 5 1.4MHz CH-Middle 9kHz~10GHz



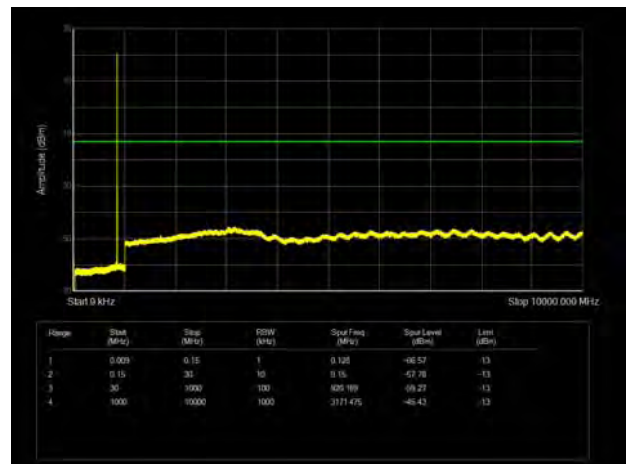
LTE Band 5 3MHz CH-Middle 9kHz~10GHz



LTE Band 5 1.4MHz CH-High 9kHz~10GHz



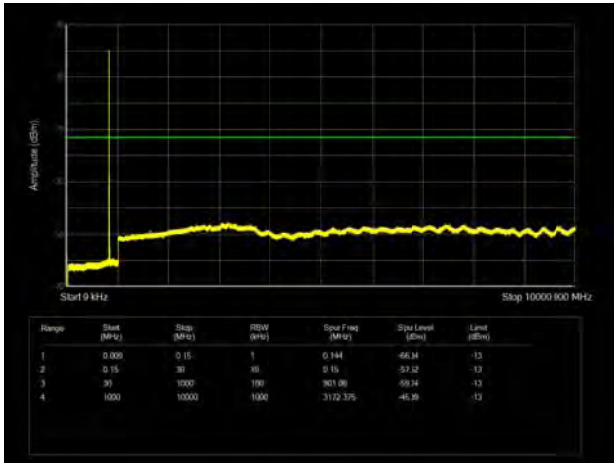
LTE Band 5 3MHz CH-High 9kHz~10GHz



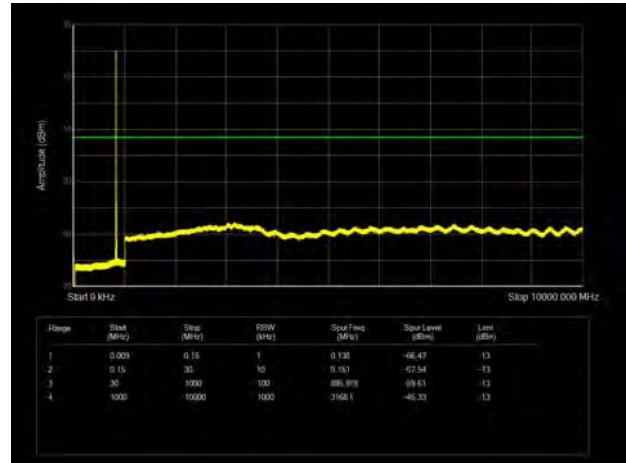




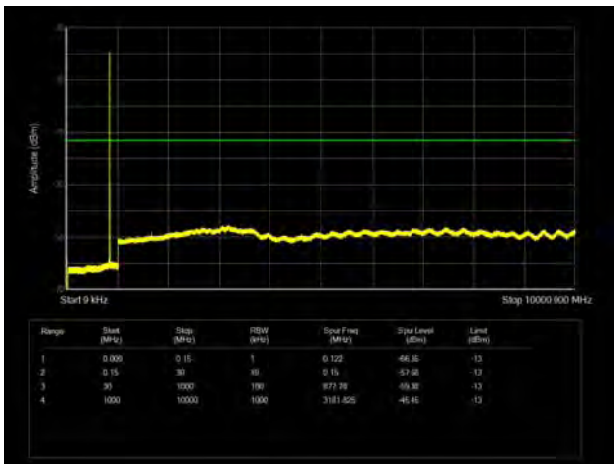
LTE Band 5 5MHz CH-Low 9kHz~10GHz



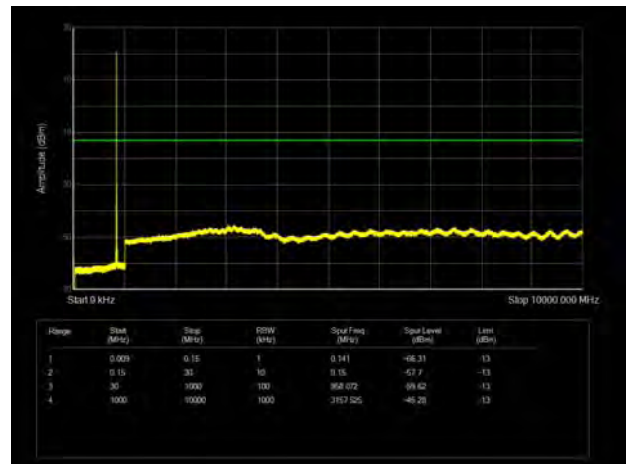
LTE Band 5 10MHz CH-Low 9kHz~10GHz



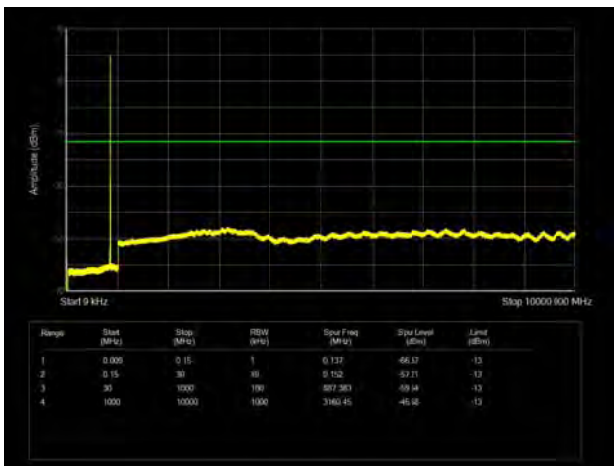
LTE Band 5 5MHz CH-Middle 9kHz~10GHz



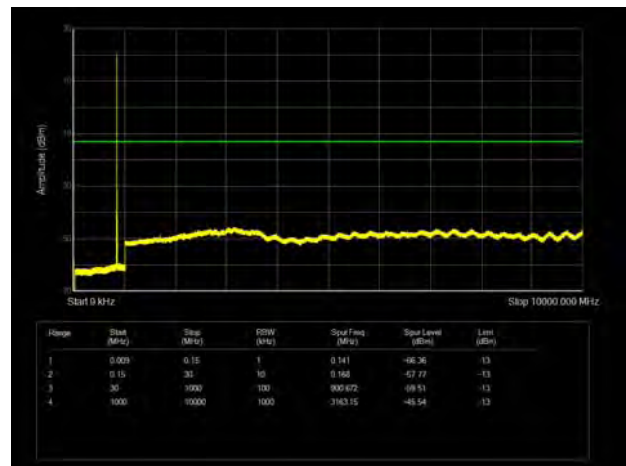
LTE Band 5 10MHz CH-Middle 9kHz~10GHz



LTE Band 5 5MHz CH-High 9kHz~10GHz



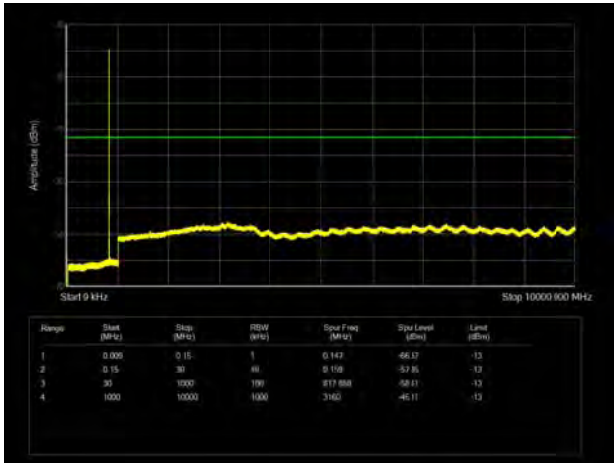
LTE Band 5 10MHz CH-High 9kHz~10GHz



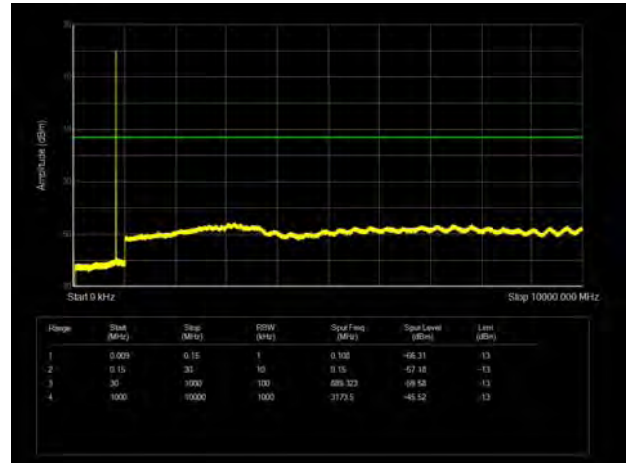




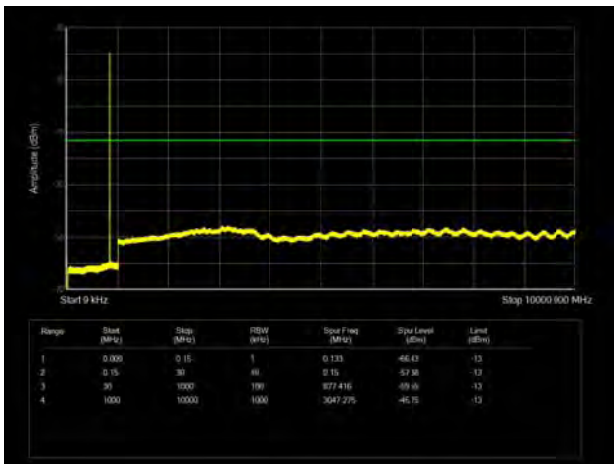
LTE Band 26 1.4MHz CH-Low 9kHz~10GHz



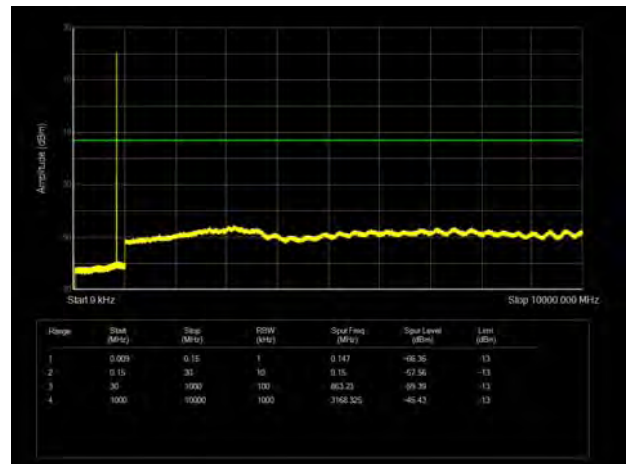
LTE Band 26 3MHz CH-Low 9kHz~10GHz



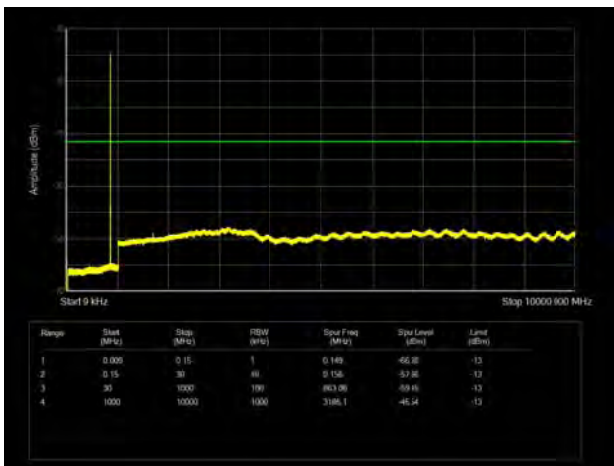
LTE Band 26 1.4MHz CH-Middle 9kHz~10GHz



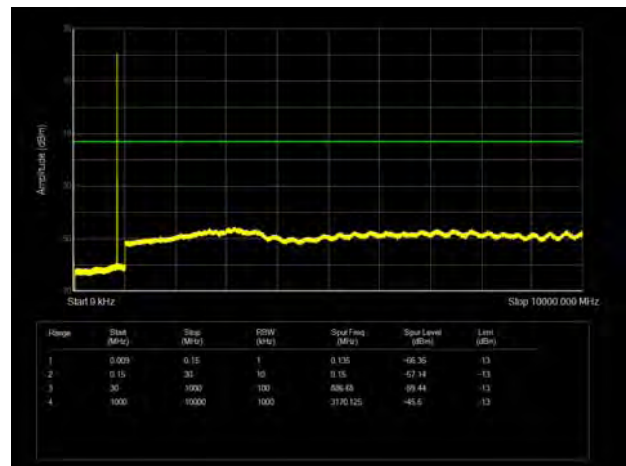
LTE Band 26 3MHz CH-Middle 9kHz~10GHz



LTE Band 26 1.4MHz CH-High 9kHz~10GHz

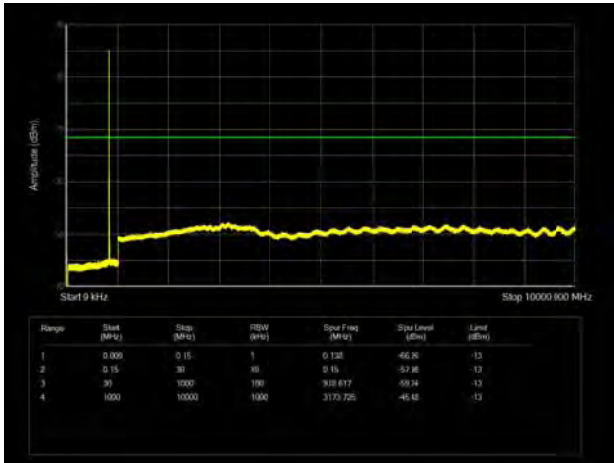


LTE Band 26 3MHz CH-High 9kHz~10GHz

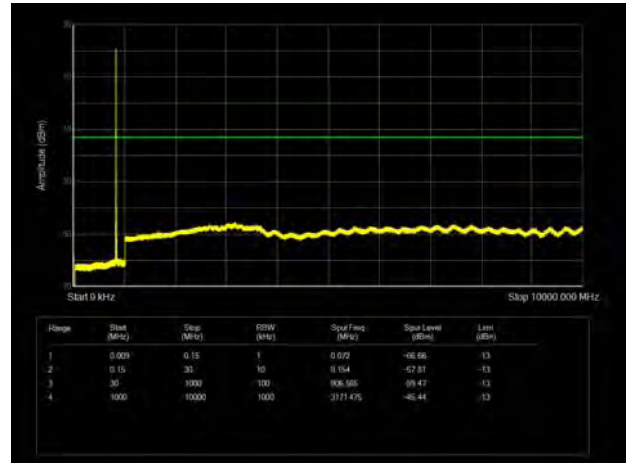




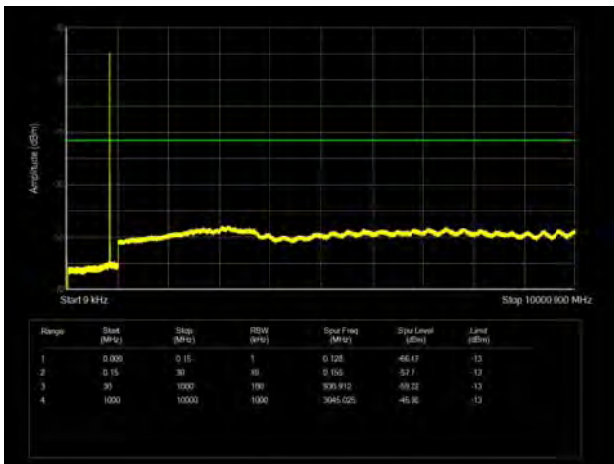
LTE Band 26 5MHz CH-Low 9kHz~10GHz



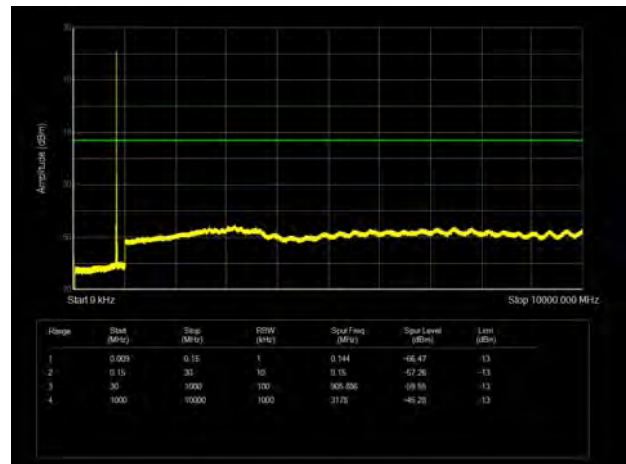
LTE Band 26 10MHz CH-Low 9kHz~10GHz



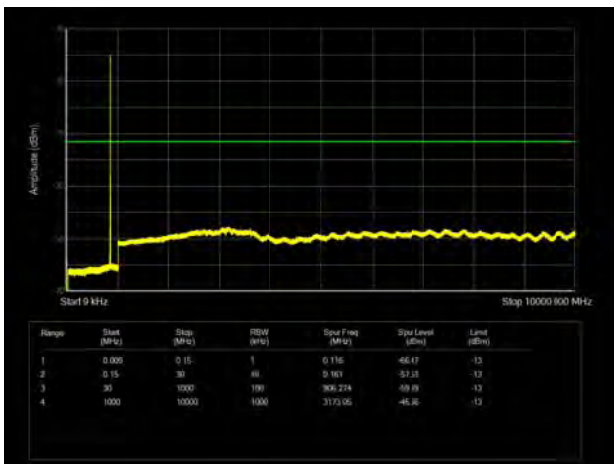
LTE Band 26 5MHz CH-Middle 9kHz~10GHz



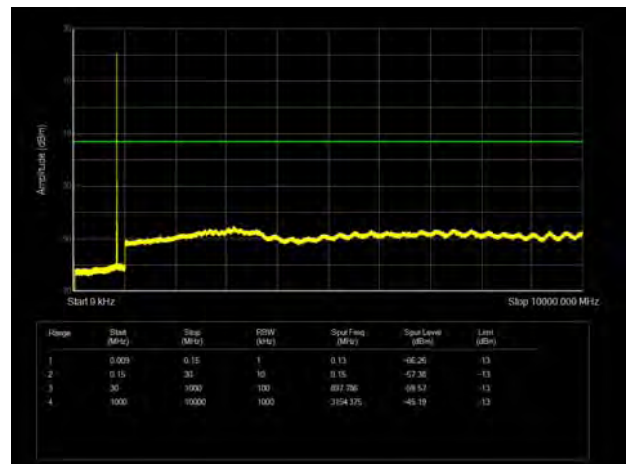
LTE Band 26 10MHz CH-Middle 9kHz~10GHz



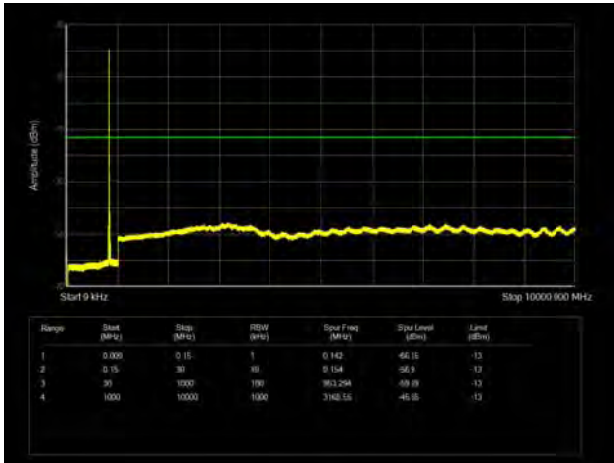
LTE Band 26 5MHz CH-High 9kHz~10GHz



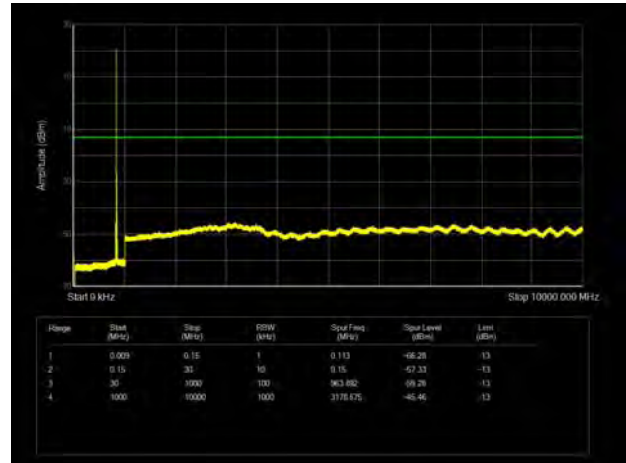
LTE Band 26 10MHz CH-High 9kHz~10GHz



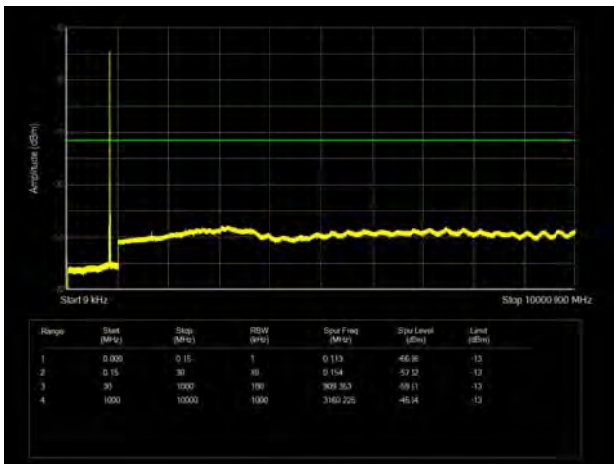
TE Band 26 15MHz CH-Low 9kHz~10GHz



LTE Band 26 15MHz CH-Middle 9kHz~10GHz



LTE Band 26 15MHz CH-High 9kHz~10GHz



### 6.7. Radiates Spurious Emission

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

**Main Antenna**

GSM 850 CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1673.15	-51.71	1.70	8.70	Horizontal	-46.86	-13.00	33.86	135
3	2510.10	-35.97	2.30	12.00	Horizontal	-28.42	-13.00	15.42	45
4	3346.40	-57.66	2.70	12.70	Horizontal	-49.81	-13.00	36.81	225
5	4183.00	-38.27	3.00	12.50	Horizontal	-30.92	-13.00	17.92	45
6	5019.60	-49.02	3.40	12.50	Horizontal	-42.07	-13.00	29.07	0
7	5856.20	-35.30	3.40	12.80	Horizontal	-28.05	-13.00	15.05	45
8	6692.80	-44.20	4.10	11.50	Horizontal	-38.95	-13.00	25.95	0
9	7529.40	-31.56	4.20	12.20	Horizontal	-25.71	-13.00	12.71	225
10	8366.00	-50.38	4.30	12.50	Horizontal	-44.33	-13.00	31.33	0

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 Horizontal position.

WCDMA Band V CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1673.20	-68.59	1.70	8.70	Horizontal	-63.74	-13.00	50.74	45
3	2509.80	-66.96	2.30	12.00	Horizontal	-59.41	-13.00	46.41	225
4	3346.40	-65.73	2.70	12.70	Horizontal	-57.88	-13.00	44.88	315
5	4183.00	-64.33	3.00	12.50	Horizontal	-56.98	-13.00	43.98	0
6	5019.60	-61.49	3.40	12.50	Horizontal	-54.54	-13.00	41.54	45
7	5856.20	-59.29	3.40	12.80	Horizontal	-52.04	-13.00	39.04	90
8	6692.80	-59.58	4.10	11.50	Horizontal	-54.33	-13.00	41.33	225
9	7529.40	-57.53	4.20	12.20	Horizontal	-51.68	-13.00	38.68	270
10	8366.00	-58.29	4.30	12.50	Horizontal	-52.24	-13.00	39.24	0

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 Horizontal position.





## LTE Band 5 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	1673.00	-68.88	1.70	8.70	Horizontal	-64.03	-13.00	51.03	45
3	2509.50	-66.24	2.30	12.00	Horizontal	-58.69	-13.00	45.69	180
4	3346.00	-64.94	2.70	12.70	Horizontal	-57.09	-13.00	44.09	225
5	4182.50	-63.24	3.00	12.50	Horizontal	-55.89	-13.00	42.89	0
6	5019.00	-59.70	3.40	12.50	Horizontal	-52.75	-13.00	39.75	90
7	5855.50	-59.18	3.40	12.80	Horizontal	-51.93	-13.00	38.93	180
8	6692.00	-58.31	4.10	11.50	Horizontal	-53.06	-13.00	40.06	225
9	7528.50	-57.18	4.20	12.20	Horizontal	-51.33	-13.00	38.33	315
10	8365.00	-58.84	4.30	12.50	Horizontal	-52.79	-13.00	39.79	90

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 Horizontal position.

## LTE Band 5 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	1668.60	-67.54	1.70	8.70	Horizontal	-62.69	-13.00	49.69	270
3	2503.30	-65.69	2.30	12.00	Horizontal	-58.14	-13.00	45.14	315
4	3466.20	-63.92	2.70	12.70	Horizontal	-56.07	-13.00	43.07	315
5	4215.90	-63.42	3.00	12.50	Horizontal	-56.07	-13.00	43.07	225
6	5165.60	-58.75	3.40	12.50	Horizontal	-51.80	-13.00	38.80	0
7	5815.30	-58.46	3.40	12.80	Horizontal	-51.21	-13.00	38.21	90
8	6765.00	-58.22	4.10	11.50	Horizontal	-52.97	-13.00	39.97	180
9	7614.70	-56.43	4.20	12.20	Horizontal	-50.58	-13.00	37.58	270
10	8464.40	-58.45	4.30	12.50	Horizontal	-52.40	-13.00	39.40	0

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 Horizontal position.



## LTE Band 5 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	1664.40	-68.37	1.70	8.70	Horizontal	-63.52	-13.00	50.52	45
3	2496.60	-66.16	2.30	12.00	Horizontal	-58.61	-13.00	45.61	90
4	3328.00	-64.48	2.70	12.70	Horizontal	-56.63	-13.00	43.63	90
5	4160.00	-62.26	3.00	12.50	Horizontal	-54.91	-13.00	41.91	90
6	4992.00	-59.74	3.40	12.50	Horizontal	-52.79	-13.00	39.79	225
7	5824.00	-60.31	3.40	12.80	Horizontal	-53.06	-13.00	40.06	180
8	6656.00	-58.40	4.10	11.50	Horizontal	-53.15	-13.00	40.15	45
9	7488.00	-57.50	4.20	12.20	Horizontal	-51.65	-13.00	38.65	90
10	8320.00	-58.63	4.30	12.50	Horizontal	-52.58	-13.00	39.58	0

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 Horizontal position.

## 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	1673.00	-68.88	1.70	8.70	Horizontal	-64.03	-13.00	51.03	135
3	2509.50	-67.63	2.30	12.00	Horizontal	-60.08	-13.00	47.08	135
4	3346.00	-65.44	2.70	12.70	Horizontal	-57.59	-13.00	44.59	315
5	4182.50	-61.93	3.00	12.50	Horizontal	-54.58	-13.00	41.58	45
6	5019.00	-59.60	3.40	12.50	Horizontal	-52.65	-13.00	39.65	135
7	5855.50	-59.47	3.40	12.80	Horizontal	-52.22	-13.00	39.22	225
8	6692.00	-57.64	4.10	11.50	Horizontal	-52.39	-13.00	39.39	0
9	7528.50	-57.72	4.20	12.20	Horizontal	-51.87	-13.00	38.87	180
10	8365.00	-58.38	4.30	12.50	Horizontal	-52.33	-13.00	39.33	0

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 Horizontal 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	1668.00	-67.06	1.70	8.70	Horizontal	-62.21	-13.00	49.21	225
3	2502.00	-66.85	2.30	12.00	Horizontal	-59.30	-13.00	46.30	45
4	3336.00	-65.18	2.70	12.70	Horizontal	-57.33	-13.00	44.33	135
5	4170.00	-62.46	3.00	12.50	Horizontal	-55.11	-13.00	42.11	45
6	5004.00	-59.94	3.40	12.50	Horizontal	-52.99	-13.00	39.99	315
7	5838.00	-59.37	3.40	12.80	Horizontal	-52.12	-13.00	39.12	225
8	6672.00	-58.31	4.10	11.50	Horizontal	-53.06	-13.00	40.06	180
9	7506.00	-57.83	4.20	12.20	Horizontal	-51.98	-13.00	38.98	135
10	8340.00	-58.26	4.30	12.50	Horizontal	-52.21	-13.00	39.21	135

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 Horizontal position.

## LTE Band 26 15MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1658.00	-67.40	1.70	8.70	Horizontal	-62.55	-13.00	49.55	180
3	2487.00	-67.09	2.30	12.00	Horizontal	-59.54	-13.00	46.54	90
4	3316.00	-65.38	2.70	12.70	Horizontal	-57.53	-13.00	44.53	45
5	4145.00	-63.14	3.00	12.50	Horizontal	-55.79	-13.00	42.79	180
6	4974.00	-60.01	3.40	12.50	Horizontal	-53.06	-13.00	40.06	90
7	5803.00	-59.46	3.40	12.80	Horizontal	-52.21	-13.00	39.21	0
8	6632.00	-57.95	4.10	11.50	Horizontal	-52.70	-13.00	39.70	135
9	7461.00	-56.67	4.20	12.20	Horizontal	-50.82	-13.00	37.82	315
10	8290.00	-57.60	4.30	12.50	Horizontal	-51.55	-13.00	38.55	45

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 Horizontal position.

**Second Antenna**

## GSM 850 CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1673.06	-67.81	1.70	8.70	Vertical	-62.96	-13.00	49.96	41
3	2509.50	-66.44	2.30	12.00	Vertical	-58.89	-13.00	45.89	301
4	3346.40	-65.63	2.70	12.70	Vertical	-57.78	-13.00	44.78	41
5	4183.00	-64.66	3.00	12.50	Vertical	-57.31	-13.00	44.31	301
6	5019.60	-59.91	3.40	12.50	Vertical	-52.96	-13.00	39.96	315
7	5856.20	-59.23	3.40	12.80	Vertical	-51.98	-13.00	38.98	301
8	6692.80	-59.35	4.10	11.50	Vertical	-54.10	-13.00	41.10	310
9	7529.40	-58.62	4.20	12.20	Vertical	-52.77	-13.00	39.77	315
10	8366.00	-59.16	4.30	12.50	Vertical	-53.11	-13.00	40.11	14

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.

## WCDMA Band V CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1673.20	-68.63	1.70	8.70	Vertical	-63.78	-13.00	50.78	45
3	2509.80	-66.73	2.30	12.00	Vertical	-59.18	-13.00	46.18	225
4	3346.40	-66.18	2.70	12.70	Vertical	-58.33	-13.00	45.33	315
5	4183.00	-63.36	3.00	12.50	Vertical	-56.01	-13.00	43.01	0
6	5019.60	-58.40	3.40	12.50	Vertical	-51.45	-13.00	38.45	45
7	5856.20	-59.55	3.40	12.80	Vertical	-52.30	-13.00	39.30	90
8	6692.80	-57.86	4.10	11.50	Vertical	-52.61	-13.00	39.61	225
9	7529.40	-59.15	4.20	12.20	Vertical	-53.30	-13.00	40.30	270
10	8366.00	-59.20	4.30	12.50	Vertical	-53.15	-13.00	40.15	0

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 5 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	1671.60	-60.51	1.70	8.70	Vertical	-55.66	-13.00	42.66	45
3	2508.10	-56.18	2.30	12.00	Vertical	-48.63	-13.00	35.63	225
4	3346.00	-65.11	2.70	12.70	Vertical	-57.26	-13.00	44.26	315
5	4182.50	-62.88	3.00	12.50	Vertical	-55.53	-13.00	42.53	90
6	5019.00	-59.82	3.40	12.50	Vertical	-52.87	-13.00	39.87	45
7	5855.50	-59.30	3.40	12.80	Vertical	-52.05	-13.00	39.05	90
8	6692.00	-58.53	4.10	11.50	Vertical	-53.28	-13.00	40.28	135
9	7528.50	-58.14	4.20	12.20	Vertical	-52.29	-13.00	39.29	225
10	8365.00	-59.13	4.30	12.50	Vertical	-53.08	-13.00	40.08	225

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 5 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	1668.60	-67.98	1.70	8.70	Vertical	-63.13	-13.00	50.13	90
3	2503.30	-65.78	2.30	12.00	Vertical	-58.23	-13.00	45.23	0
4	3466.20	-64.53	2.70	12.70	Vertical	-56.68	-13.00	43.68	135
5	4215.90	-63.29	3.00	12.50	Vertical	-55.94	-13.00	42.94	45
6	5165.60	-58.58	3.40	12.50	Vertical	-51.63	-13.00	38.63	180
7	5815.30	-59.68	3.40	12.80	Vertical	-52.43	-13.00	39.43	90
8	6765.00	-57.95	4.10	11.50	Vertical	-52.70	-13.00	39.70	135
9	7614.70	-57.77	4.20	12.20	Vertical	-51.92	-13.00	38.92	270
10	8464.40	-58.48	4.30	12.50	Vertical	-52.43	-13.00	39.43	45

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 5 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	1664.40	-68.07	1.70	8.70	Vertical	-63.22	-13.00	50.22	270
3	2496.60	-66.03	2.30	12.00	Vertical	-58.48	-13.00	45.48	45
4	3328.00	-65.22	2.70	12.70	Vertical	-57.37	-13.00	44.37	135
5	4160.00	-64.11	3.00	12.50	Vertical	-56.76	-13.00	43.76	270
6	4992.00	-59.24	3.40	12.50	Vertical	-52.29	-13.00	39.29	0
7	5824.00	-58.78	3.40	12.80	Vertical	-51.53	-13.00	38.53	180
8	6656.00	-58.32	4.10	11.50	Vertical	-53.07	-13.00	40.07	225
9	7488.00	-56.62	4.20	12.20	Vertical	-50.77	-13.00	37.77	180
10	8320.00	-59.67	4.30	12.50	Vertical	-53.62	-13.00	40.62	180

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 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	1673.00	-56.31	1.70	8.70	Vertical	-51.46	-13.00	38.46	270
3	2509.50	-52.19	2.30	12.00	Vertical	-44.64	-13.00	31.64	270
4	3346.00	-65.98	2.70	12.70	Vertical	-58.13	-13.00	45.13	270
5	4182.50	-61.49	3.00	12.50	Vertical	-54.14	-13.00	41.14	90
6	5019.00	-58.58	3.40	12.50	Vertical	-51.63	-13.00	38.63	45
7	5855.50	-58.49	3.40	12.80	Vertical	-51.24	-13.00	38.24	45
8	6692.00	-57.55	4.10	11.50	Vertical	-52.30	-13.00	39.30	135
9	7528.50	-57.64	4.20	12.20	Vertical	-51.79	-13.00	38.79	225
10	8365.00	-58.94	4.30	12.50	Vertical	-52.89	-13.00	39.89	180

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	1668.00	-67.75	1.70	8.70	Vertical	-62.90	-13.00	49.90	0
3	2502.00	-65.54	2.30	12.00	Vertical	-57.99	-13.00	44.99	225
4	3336.00	-65.38	2.70	12.70	Vertical	-57.53	-13.00	44.53	180
5	4170.00	-62.28	3.00	12.50	Vertical	-54.93	-13.00	41.93	180
6	5004.00	-58.66	3.40	12.50	Vertical	-51.71	-13.00	38.71	45
7	5838.00	-60.04	3.40	12.80	Vertical	-52.79	-13.00	39.79	180
8	6672.00	-57.90	4.10	11.50	Vertical	-52.65	-13.00	39.65	180
9	7506.00	-56.94	4.20	12.20	Vertical	-51.09	-13.00	38.09	0
10	8340.00	-58.38	4.30	12.50	Vertical	-52.33	-13.00	39.33	270

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 15MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1658.00	-67.49	1.70	8.70	Vertical	-62.64	-13.00	49.64	90
3	2487.00	-66.50	2.30	12.00	Vertical	-58.95	-13.00	45.95	0
4	3316.00	-65.69	2.70	12.70	Vertical	-57.84	-13.00	44.84	315
5	4145.00	-62.85	3.00	12.50	Vertical	-55.50	-13.00	42.50	45
6	4974.00	-60.66	3.40	12.50	Vertical	-53.71	-13.00	40.71	90
7	5803.00	-58.16	3.40	12.80	Vertical	-50.91	-13.00	37.91	45
8	6632.00	-58.06	4.10	11.50	Vertical	-52.81	-13.00	39.81	315
9	7461.00	-57.56	4.20	12.20	Vertical	-51.71	-13.00	38.71	90
10	8290.00	-57.49	4.30	12.50	Vertical	-51.44	-13.00	38.44	270

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.



## 7. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Climate Chamber	ESPEC	SU-242	93000506	2021-12-12	2022-12-11
Universal Radio Communication Tester	R&S	CMW500	150415	2022-05-14	2023-05-13
Spectrum Analyzer	Keysight	N9020A	MY50510203	2021-12-12	2022-12-11
Communication tester	Agilent	E5515C	GB44400275	2021-12-12	2022-12-11
Signal Analyzer	R&S	FSV3030	101411	2021-12-12	2022-12-11
Spectrum Analyzer	R&S	FSV40	101297	2021-12-12	2022-12-11
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	01111	2019-09-12	2022-09-11
Horn Antenna	Schwarzbeck	BBHA 9120D	1594	2020-12-17	2023-12-16
Software	R&S	EMC32	10.35.10	/	/

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





## **ANNEX A: The EUT Appearance**

The EUT Appearance is submitted separately.



## **ANNEX B: Test Setup Photos**

**The Test Setup Photos is submitted separately.**