FCC Test Report
(Part 24 – WCDMA B2, LTE B2/B25)

Report No.: RFBBQZ-WTW-P20120749-4

FCC ID: PY320400515

Test Model: MR5100C

Received Date: Dec. 23, 2020

Test Date: Jan. 05 ~ Jan. 28, 2021

Issued Date: Feb. 01, 2021

Applicant and Manufacturer: NETGEAR INC.

Address: 350 East Plumeria Drive, San Jose, CA 95134, USA

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN

FCC Registration / Designation Number: 788550 / TW0003

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Release Control Record

Issue No.	Description	Date Issued
RFBBQZ-WTW-P20120749-4	Original release	Feb. 01, 2021

1 Certificate of Conformity

Product: 5G MHS Travel Router

Brand: Netgear

Test Model: MR5100C

Sample Status: Engineering sample

Applicant: NETGEAR INC.

Test Date: Jan. 05 ~ Jan. 28, 2021

Standards: FCC Part 24, Subpart E

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Celine Chou , **Date:** Feb. 01, 2021

Celine Chou / Senior Specialist

Approved by : Bruce Chen , **Date:** Feb. 01, 2021

Bruce Chen / Senior Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 24 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 24.232	Effective Isotropically Radiated Power	Pass	Meet the requirement of limit.
2.1046 24.232 (d)	Peak To Average Ratio	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	Pass	Meet the requirement
2.1055 24.235	Frequency Stability	Pass	Meet the requirement of limit.
2.1049	Occupied Bandwidth	Pass	Meet the requirement of limit.
24.238	Band Edge Measurements	Pass	Meet the requirement of limit.
2.1051 24.238	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
2.1053 24.238	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -19.40dB at 49.40MHz.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.59 dB
	200MHz ~1000MHz	3.60 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver KEYSIGHT	N9038A	MY55420137	Apr. 16, 2020	Apr. 15, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Jun. 12, 2020	Jun. 11, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSW43	101582	Mar. 31, 2020	Mar. 30, 2021
MXG Vector signal generator Agilent	N5182B	MY53050430	Nov. 25, 2020	Nov. 24, 2021
5G Wireless Test Platforms Keysight	E7515B	MY58300759	Apr. 18, 2020	Apr. 17, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Nov. 06, 2020	Nov. 05, 2021
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-969	Nov. 22, 2020	Nov. 21, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Nov. 06, 2020	Nov. 05, 2021
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Nov. 22, 2020	Nov. 21, 2021
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 22, 2020	Nov. 21, 2021
Preamplifier Agilent (Below 1GHz)	8447D	2944A10638	Jun. 08, 2020	Jun. 07, 2021
Preamplifier Agilent (Above 1GHz)	8449B	3008A02367	Feb. 18, 2020	Feb. 17, 2021
RF signal cable HUBER+SUHNER&EMCI	SUCOFLEX 104 & EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	Jan. 18, 2020	Jan. 17, 2021
			Jan. 16, 2021	Jan. 15, 2022
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	Jan. 18, 2020	Jan. 17, 2021
			Jan. 16, 2021	Jan. 15, 2022
RF signal cable Woken	8D-FB	Cable-CH9-01	Jun. 08, 2020	Jun. 07, 2021
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower &Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Standard Temperature And Humidity Chamber GIANT FORCE	GTH-120-40-CP-AR	MAA1306-019	Sep. 10, 2020	Sep. 09, 2021

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
True RMS Clamp Meter Fluke	325	31130711WS	Jun. 06, 2020	Jun. 05, 2021
DC power supply Keysight	U8002A	MY56330015	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 9.

3 General Information

3.1 General Description of EUT

Product	5G MHS Travel Router	
Brand	Netgear	
Test Model	MR5100C	
Sample Status	Engineering sample	
Power Supply Rating	5 or 9Vdc (adapter) 5Vdc (host equipment) 3.85Vdc (battery)	
Modulation Type	WCDMA: BPSK, QPSK HSDPA: BPSK HSUPA: QPSK LTE: QPSK, 16QAM, 64QAM, 256QAM	
Operating Frequency	WCDMA Band 2	1852.4MHz ~ 1907.6MHz
	LTE Band 2 (Channel Bandwidth 1.4MHz)	1850.7MHz ~ 1909.3MHz
	LTE Band 2 (Channel Bandwidth 3MHz)	1851.5MHz ~ 1908.5MHz
	LTE Band 2 (Channel Bandwidth 5MHz)	1852.5MHz ~ 1907.5MHz
	LTE Band 2 (Channel Bandwidth 10MHz)	1855.0MHz ~ 1905.0MHz
	LTE Band 2 (Channel Bandwidth 15MHz)	1857.5MHz ~ 1902.5MHz
	LTE Band 2 (Channel Bandwidth 20MHz)	1860.0MHz ~ 1900.0MHz
	LTE Band 25 (Channel Bandwidth 1.4MHz)	1850.7MHz ~ 1914.3MHz
	LTE Band 25 (Channel Bandwidth 3MHz)	1851.5MHz ~ 1913.5MHz
	LTE Band 25 (Channel Bandwidth 5MHz)	1852.5MHz ~ 1912.5MHz
	LTE Band 25 (Channel Bandwidth 10MHz)	1855.0MHz ~ 1910.0MHz
	LTE Band 25 (Channel Bandwidth 15MHz)	1857.5MHz ~ 1907.5MHz
	LTE Band 25 (Channel Bandwidth 20MHz)	1860.0MHz ~ 1905.0MHz

Max. EIRP Power (Internal Antenna)	WCDMA Band 2	158.489mW (22.00dBm)			
		QPSK	16QAM	64QAM	256QAM
	LTE Band 2 (Channel Bandwidth 1.4MHz)	288.403mW (24.60dBm)	229.087mW (23.60dBm)	190.546mW (22.80dBm)	134.896mW (21.30dBm)
	LTE Band 2 (Channel Bandwidth 3MHz)	263.027mW (24.20dBm)	223.872mW (23.50dBm)	186.209mW (22.70dBm)	125.893mW (21.00dBm)
	LTE Band 2 (Channel Bandwidth 5MHz)	263.027mW (24.20dBm)	223.872mW (23.50dBm)	181.970mW (22.60dBm)	123.027mW (20.90dBm)
	LTE Band 2 (Channel Bandwidth 10MHz)	257.040mW (24.10dBm)	223.872mW (23.50dBm)	190.546mW (22.80dBm)	114.815mW (20.60dBm)
	LTE Band 2 (Channel Bandwidth 15MHz)	288.403mW (24.60dBm)	218.776mW (23.40dBm)	186.209mW (22.70dBm)	112.202mW (20.50dBm)
	LTE Band 2 (Channel Bandwidth 20MHz)	295.121mW (24.70dBm)	229.087mW (23.60dBm)	190.546mW (22.80dBm)	131.826mW (21.20dBm)
	LTE Band 25 (Channel Bandwidth 1.4MHz)	199.526mW (23.00dBm)	165.959mW (22.20dBm)	144.544mW (21.60dBm)	85.114mW (19.30dBm)
	LTE Band 25 (Channel Bandwidth 3MHz)	181.970mW (22.60dBm)	141.254mW (21.50dBm)	123.027mW (20.90dBm)	79.433mW (19.00dBm)
	LTE Band 25 (Channel Bandwidth 5MHz)	199.526mW (23.00dBm)	165.959mW (22.20dBm)	147.911mW (21.70dBm)	89.125mW (19.50dBm)
	LTE Band 25 (Channel Bandwidth 10MHz)	213.796mW (23.30dBm)	173.780mW (22.40dBm)	158.489mW (22.00dBm)	87.096mW (19.40dBm)
	LTE Band 25 (Channel Bandwidth 15MHz)	199.526mW (23.00dBm)	162.181mW (22.10dBm)	144.544mW (21.60dBm)	83.176mW (19.20dBm)
	LTE Band 25 (Channel Bandwidth 20MHz)	223.872mW (23.50dBm)	162.181mW (22.10dBm)	141.254mW (21.50dBm)	85.114mW (19.30dBm)

Max. EIRP Power (External Antenna)	WCDMA Band 2	125.893mW (21.00dBm)			
		QPSK	16QAM	64QAM	256QAM
	LTE Band 2 (Channel Bandwidth 1.4MHz)	85.114mW (19.30dBm)	67.608mW (18.30dBm)	58.884mW (17.70dBm)	46.774mW (16.70dBm)
	LTE Band 2 (Channel Bandwidth 3MHz)	81.283mW (19.10dBm)	64.565mW (18.10dBm)	57.544mW (17.60dBm)	45.709mW (16.60dBm)
	LTE Band 2 (Channel Bandwidth 5MHz)	85.114mW (19.30dBm)	67.608mW (18.30dBm)	60.256mW (17.80dBm)	47.863mW (16.80dBm)
	LTE Band 2 (Channel Bandwidth 10MHz)	89.125mW (19.50dBm)	70.795mW (18.50dBm)	58.884mW (17.70dBm)	46.774mW (16.70dBm)
	LTE Band 2 (Channel Bandwidth 15MHz)	87.096mW (19.40dBm)	69.183mW (18.40dBm)	61.660mW (17.90dBm)	48.978mW (16.90dBm)
	LTE Band 2 (Channel Bandwidth 20MHz)	89.125mW (19.50dBm)	70.795mW (18.50dBm)	63.096mW (18.00dBm)	50.119mW (17.00dBm)
	LTE Band 25 (Channel Bandwidth 1.4MHz)	138.038mW (21.40dBm)	109.648mW (20.40dBm)	100.000mW (20.00dBm)	79.433mW (19.00dBm)
	LTE Band 25 (Channel Bandwidth 3MHz)	123.027mW (20.90dBm)	97.724mW (19.90dBm)	85.114mW (19.30dBm)	67.608mW (18.30dBm)
	LTE Band 25 (Channel Bandwidth 5MHz)	112.202mW (20.50dBm)	89.125mW (19.50dBm)	79.433mW (19.00dBm)	63.096mW (18.00dBm)
	LTE Band 25 (Channel Bandwidth 10MHz)	123.027mW (20.90dBm)	97.724mW (19.90dBm)	85.114mW (19.30dBm)	67.608mW (18.30dBm)
	LTE Band 25 (Channel Bandwidth 15MHz)	128.825mW (21.10dBm)	102.329mW (20.10dBm)	89.125mW (19.50dBm)	70.795mW (18.50dBm)
	LTE Band 25 (Channel Bandwidth 20MHz)	141.254mW (21.50dBm)	112.202mW (20.50dBm)	100.000mW (20.00dBm)	79.433mW (19.00dBm)
Emission Designator	WCDMA Band 2	4M16F9W			
		QPSK	16QAM	64QAM	256QAM
	LTE Band 2 (Channel Bandwidth 1.4MHz)	1M09G7D	1M09D7W	1M09D7W	1M09D7W
	LTE Band 2 (Channel Bandwidth 3MHz)	2M70G7D	2M70D7W	2M70D7W	2M70D7W
	LTE Band 2 (Channel Bandwidth 5MHz)	4M49G7D	4M49D7W	4M49D7W	4M49D7W
	LTE Band 2 (Channel Bandwidth 10MHz)	8M97G7D	8M96D7W	8M96D7W	8M95D7W
	LTE Band 2 (Channel Bandwidth 15MHz)	13M5G7D	13M5D7W	13M5D7W	13M5D7W
	LTE Band 2 (Channel Bandwidth 20MHz)	17M9G7D	17M9D7W	17M9D7W	17M9D7W
	LTE Band 25 (Channel Bandwidth 1.4MHz)	1M09G7D	1M09D7W	1M09D7W	1M09D7W
	LTE Band 25 (Channel Bandwidth 3MHz)	2M70G7D	2M70D7W	2M70D7W	2M70D7W
	LTE Band 25 (Channel Bandwidth 5MHz)	4M49G7D	4M49D7W	4M49D7W	4M49D7W
	LTE Band 25 (Channel Bandwidth 10MHz)	8M96G7D	8M96D7W	8M96D7W	8M95D7W
	LTE Band 25 (Channel Bandwidth 15MHz)	13M5G7D	13M4D7W	13M4D7W	13M4D7W
	LTE Band 25 (Channel Bandwidth 20MHz)	17M9G7D	17M9D7W	17M9D7W	17M9D7W
Antenna Type	Refer to Note				
Antenna Connector	Refer to Note				
Accessory Device	Adapter x1, battery x1				
Cable Supplied	1m shielded USB cable without core (Brand: NIENYI, model: NYS2371-1)				

Note:

1. The EUT uses following adapter and battery.

Adapter	
Brand	NETGEAR
Model	AD2122F20
P/N	332-11106-01
Input Power	100-240Vac, 50-60Hz, 0.5A
Output Power	5Vdc, 2.0A 9Vdc, 1.8A

Battery	
Brand	NETGEAR
Model	W-20
Rating	3.85Vdc ,19.40Wh

2. The following antennas were provided to the EUT.

Internal Antenna

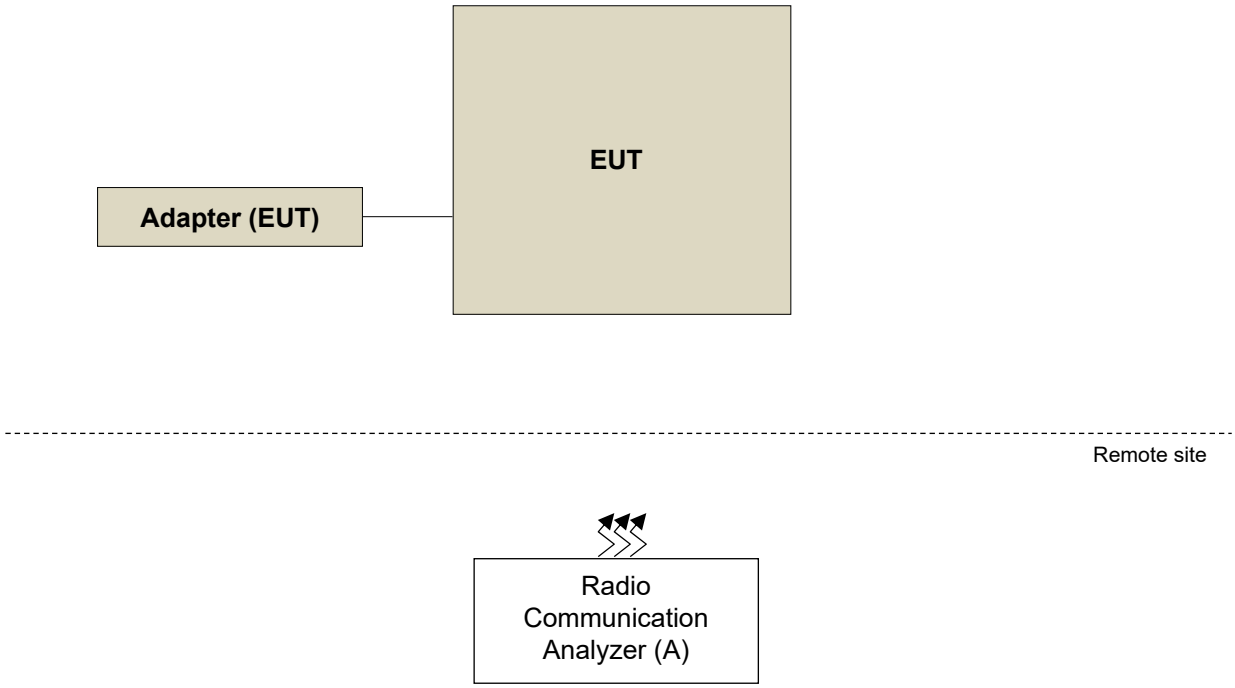
No.	Type	Connector	Gain (dBi)												
			B2	B4	B5	B7	B12	B13	B17	B25	B30	B38	B41	B66	B71
1	Monopole	NA	1.83	-0.01	-0.23	2.66	1.24	0.16	1.24	1.83	2.81	2.66	2.66	-0.01	0.91
2	Monopole	NA	1.03	-	-0.38	2.56	-	-	-	1.03	-	-	-	0.34	-

External Antenna

No.	Type	Connector	Gain (dBi)												
			B2	B4	B5	B7	B12	B13	B17	B25	B30	B38	B41	B66	B71
1	Monopole	TS-9 plugs	0.48	0.48	0.54	0.24	0.54	0.54	0.54	0.48	0.24	0.24	0.24	0.48	0.54
2	Monopole	TS-9 plugs	0.25	0.25	0.48	0.28	0.48	0.48	0.48	0.25	0.28	0.28	0.28	0.25	0.48

* The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3.2 Configuration of System under Test



3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Radio Communication Analyzer	Anritsu	MT8821C	6261806803	NA	-

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item A acted as a communication partner to transfer data.

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned as the table below. Following channel(s) was (were) selected for the final test as listed below:

Band	EIRP		Radiated Emission	
	Internal Antenna	External Antenna	Internal Antenna	External Antenna
WCDMA Band 2	Z-plane	Z-plane	Z-plane	Z-plane
LTE Band 2	Z-plane	Z-plane	Z-plane	Z-plane
LTE Band 25	Z-plane	Z-plane	Z-plane	Z-plane

WCDMA Band 2

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	EIRP	9262 to 9538	9262 (1852.4MHz), 9400 (1880.0MHz), 9538 (1907.6MHz)	WCDMA
-	Modulation Characteristics	9262 to 9538	9400 (1880.0MHz)	WCDMA
-	Frequency Stability	9262 to 9538	9262 (1852.4MHz), 9538 (1907.6MHz)	WCDMA
-	Occupied Bandwidth	9262 to 9538	9262 (1852.4MHz), 9400 (1880.0MHz), 9538 (1907.6MHz)	WCDMA
-	Band Edge	9262 to 9538	9262 (1852.4MHz), 9538 (1907.6MHz)	WCDMA
-	Peak To Average Ratio	9262 to 9538	9262 (1852.4MHz), 9400 (1880.0MHz), 9538 (1907.6MHz)	WCDMA
-	Conducted Emission	9262 to 9538	9262 (1852.4MHz), 9400 (1880.0MHz), 9538 (1907.6MHz)	WCDMA
-	Radiated Emission Below 1GHz	9262 to 9538	9262 (1852.4MHz)	WCDMA
-	Radiated Emission Above 1GHz	9262 to 9538	9262 (1852.4MHz), 9400 (1880.0MHz), 9538 (1907.6MHz)	WCDMA

Note: For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.

LTE Band 2

EUT Configure Mode	Test item	Available channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	18607 to 19193	18607 (1850.7MHz), 18900 (1880.0MHz), 19193 (1909.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 2 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 1 RB Offset 3 RB / 3 RB Offset 6 RB / 0 RB Offset
		18615 to 19185	18615 (1851.5MHz), 18900 (1880.0MHz), 19185 (1908.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 7 RB Offset 1 RB / 14 RB Offset 8 RB / 0 RB Offset 8 RB / 3 RB Offset 8 RB / 7 RB Offset 15 RB / 0 RB Offset
		18625 to 19175	18625 (1852.5MHz), 18900 (1880.0MHz), 19175 (1907.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		18650 to 19150	18650 (1855.0MHz), 18900 (1880.0MHz), 19150 (1905.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
		18675 to 19125	18675 (1857.5MHz), 18900 (1880.0MHz), 19125 (1902.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 37 RB Offset 1 RB / 74 RB Offset 36 RB / 0 RB Offset 36 RB / 19 RB Offset 36 RB / 39 RB Offset 75 RB / 0 RB Offset
		18700 to 19100	18700 (1860.0MHz), 18900 (1880.0MHz), 19100 (1900.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 50 RB Offset 1 RB / 99 RB Offset 50 RB / 0 RB Offset 50 RB / 25 RB Offset 50 RB / 50 RB Offset 100 RB / 0 RB Offset
-	Modulation Characteristics	18700 to 19100	18900 (1880.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	100 RB / 0 RB Offset
-	Frequency Stability	18607 to 19193	18607 (1850.7MHz), 19193 (1909.3MHz)	1.4MHz	QPSK	6 RB / 0 RB Offset
		18615 to 19185	18615 (1851.5MHz), 19185 (1908.5MHz)	3MHz	QPSK	15 RB / 0 RB Offset
		18625 to 19175	18625 (1852.5MHz), 19175 (1907.5MHz)	5MHz	QPSK	25 RB / 0 RB Offset
		18650 to 19150	18650 (1855.0MHz), 19150 (1905.0MHz)	10MHz	QPSK	50 RB / 0 RB Offset
		18675 to 19125	18675 (1857.5MHz), 19125 (1902.5MHz)	15MHz	QPSK	75 RB / 0 RB Offset
		18700 to 19100	18700 (1860.0MHz), 19100 (1900.0MHz)	20MHz	QPSK	100 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Occupied Bandwidth	18607 to 19193	18607 (1850.7MHz), 18900 (1880.0MHz), 19193 (1909.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM / 256QAM	6 RB / 0RB Offset
		18615 to 19185	18615 (1851.5MHz), 18900 (1880.0MHz), 19185 (1908.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	15 RB / 0RB Offset
		18625 to 19175	18625 (1852.5MHz), 18900 (1880.0MHz), 19175 (1907.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	25RB / 0RB Offset
		18650 to 19150	18650 (1855.0MHz), 18900 (1880.0MHz), 19150 (1905.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	50RB / 0RB Offset
		18675 to 19125	18675 (1857.5MHz), 18900 (1880.0MHz), 19125 (1902.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	75 RB / 0 RB Offset
		18700 to 19100	18700 (1860.0MHz), 18900 (1880.0MHz), 19100 (1900.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	100 RB / 0 RB Offset
-	Band Edge	18607 to 19193	18607 (1850.7MHz), 19193 (1909.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset 1 RB / 5 RB Offset 6 RB / 0 RB Offset
		18615 to 19185	18615 (1851.5MHz), 19185 (1908.5MHz)	3MHz	QPSK	1 RB / 0 RB Offset 1 RB / 14 RB Offset 15 RB / 0 RB Offset
		18625 to 19175	18625 (1852.5MHz), 19175 (1907.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		18650 to 19150	18650 (1855.0MHz), 19150 (1905.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
		18675 to 19125	18675 (1857.5MHz), 19125 (1902.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset 1 RB / 74 RB Offset 75 RB / 0 RB Offset
		18700 to 19100	18700 (1860.0MHz), 19100 (1900.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset 1 RB / 99 RB Offset 100 RB / 0 RB Offset
-	Peak to Average Ratio	18607 to 19193	18607 (1850.7MHz), 18900 (1880.0MHz), 19193 (1909.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		18615 to 19185	18615 (1851.5MHz), 18900 (1880.0MHz), 19185 (1908.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		18625 to 19175	18625 (1852.5MHz), 18900 (1880.0MHz), 19175 (1907.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		18650 to 19150	18650 (1855.0MHz), 18900 (1880.0MHz), 19150 (1905.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		18675 to 19125	18675 (1857.5MHz), 18900 (1880.0MHz), 19125 (1902.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		18700 to 19100	18700 (1860.0MHz), 18900 (1880.0MHz), 19100 (1900.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Conducted Emission	18607 to 19193	18607 (1850.7MHz), 18900 (1880.0MHz), 19193 (1909.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		18615 to 19185	18615 (1851.5MHz), 18900 (1880.0MHz), 19185 (1908.5MHz)	3MHz	QPSK	1 RB / 0 RB Offset
		18625 to 19175	18625 (1852.5MHz), 18900 (1880.0MHz), 19175 (1907.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		18650 to 19150	18650 (1855.0MHz), 18900 (1880.0MHz), 19150 (1905.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		18675 to 19125	18675 (1857.5MHz), 18900 (1880.0MHz), 19125 (1902.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		18700 to 19100	18700 (1860.0MHz), 18900 (1880.0MHz), 19100 (1900.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	18607 to 19193	19175 (1907.50MHz)	5MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	18607 to 19193	18607 (1850.7MHz), 18900 (1880.0MHz), 19193 (1909.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		18625 to 19175	18625 (1852.5MHz), 18900 (1880.0MHz), 19175 (1907.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		18700 to 19100	18700 (1860.0MHz), 18900 (1880.0MHz), 19100 (1900.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

Note:

1. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.
2. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5MHz & highest channel bandwidth for final test.
3. The output power for QPSK, 16QAM, 64QAM and 256QAM, measured value of QPSK is higher than 16QAM, 64QAM and 256QAM mode. Therefore, only Modulation characteristics, occupied bandwidth and Peak to average ratio items had been tested under QPSK, 16QAM, 64QAM and 256QAM modes, the other test items were performed under QPSK mode only.

LTE Band 25

EUT Configure Mode	Test item	Available channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	26047 to 26683	26047 (1850.7MHz), 26365 (1882.5MHz), 26683 (1914.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 2 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 1 RB Offset 3 RB / 3 RB Offset 6 RB / 0 RB Offset
		26055 to 26675	26055 (1851.5MHz), 26365 (1882.5MHz), 26675 (1913.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 7 RB Offset 1 RB / 14 RB Offset 8 RB / 0 RB Offset 8 RB / 3 RB Offset 8 RB / 7 RB Offset 15 RB / 0 RB Offset
		26065 to 26665	26065 (1852.5MHz), 26365 (1882.5MHz), 26665 (1912.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		26090 to 26640	26090 (1855.0MHz), 26365 (1882.5MHz), 26640 (1910.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
		26115 to 26615	26115 (1857.5MHz), 26365 (1882.5MHz), 26615 (1907.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 37 RB Offset 1 RB / 74 RB Offset 36 RB / 0 RB Offset 36 RB / 19 RB Offset 36 RB / 39 RB Offset 75 RB / 0 RB Offset
		26140 to 26590	26140 (1860.0MHz), 26365 (1882.5MHz), 26590 (1905.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 50 RB Offset 1 RB / 99 RB Offset 50 RB / 0 RB Offset 50 RB / 25 RB Offset 50 RB / 50 RB Offset 100 RB / 0 RB Offset
-	Modulation Characteristics	26065 to 26665	26365 (1882.5MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	100 RB / 0 RB Offset
-	Frequency Stability	26047 to 26683	26047 (1850.7MHz), 26683 (1914.3MHz)	1.4MHz	QPSK	6 RB / 0 RB Offset
		26055 to 26675	26055 (1851.5MHz), 26675 (1913.5MHz)	3MHz	QPSK	15 RB / 0 RB Offset
		26065 to 26665	26065 (1852.5MHz), 26665 (1912.5MHz)	5MHz	QPSK	25 RB / 0 RB Offset
		26090 to 26640	26090 (1855.0MHz), 26640 (1910.0MHz)	10MHz	QPSK	50 RB / 0 RB Offset
		26115 to 26615	26115 (1857.5MHz), 26615 (1907.5MHz)	15MHz	QPSK	75 RB / 0 RB Offset
		26140 to 26590	26140 (1860.0MHz), 26590 (1905.0MHz)	20MHz	QPSK	100 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Occupied Bandwidth	26047 to 26683	26047 (1850.7MHz), 26365 (1882.5MHz), 26683 (1914.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM / 256QAM	6 RB / 0RB Offset
		26055 to 26675	26055 (1851.5MHz), 26365 (1882.5MHz), 26675 (1913.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	15 RB / 0RB Offset
		26065 to 26665	26065 (1852.5MHz), 26365 (1882.5MHz), 26665 (1912.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	25RB / 0RB Offset
		26090 to 26640	26090 (1855.0MHz), 26365 (1882.5MHz), 26640 (1910.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	50RB / 0RB Offset
		26115 to 26615	26115 (1857.5MHz), 26365 (1882.5MHz), 26615 (1907.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	75 RB / 0 RB Offset
		26140 to 26590	26140 (1860.0MHz), 26365 (1882.5MHz), 26590 (1905.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	100 RB / 0 RB Offset
-	Band Edge	26047 to 26683	26047 (1850.7MHz), 26683 (1914.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset 1 RB / 5 RB Offset 6 RB / 0 RB Offset
		26055 to 26675	26055 (1851.5MHz), 26675 (1913.5MHz)	3MHz	QPSK	1 RB / 0 RB Offset 1 RB / 14 RB Offset 15 RB / 0 RB Offset
		26065 to 26665	26065 (1852.5MHz), 26665 (1912.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		26090 to 26640	26090 (1855.0MHz), 26640 (1910.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
		26115 to 26615	26115 (1857.5MHz), 26615 (1907.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset 1 RB / 74 RB Offset 75 RB / 0 RB Offset
		26140 to 26590	26140 (1860.0MHz), 26590 (1905.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset 1 RB / 99 RB Offset 100 RB / 0 RB Offset
-	Peak to Average Ratio	26047 to 26683	26047 (1850.7MHz), 26365 (1882.5MHz), 26683 (1914.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		26055 to 26675	26055 (1851.5MHz), 26365 (1882.5MHz), 26675 (1913.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		26065 to 26665	26065 (1852.5MHz), 26365 (1882.5MHz), 26665 (1912.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		26090 to 26640	26090 (1855.0MHz), 26365 (1882.5MHz), 26640 (1910.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		26115 to 26615	26115 (1857.5MHz), 26365 (1882.5MHz), 26615 (1907.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		26140 to 26590	26140 (1860.0MHz), 26365 (1882.5MHz), 26590 (1905.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Conducted Emission	26047 to 26683	26047 (1850.7MHz), 26365 (1882.5MHz), 26683 (1914.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		26055 to 26675	26055 (1851.5MHz), 26365 (1882.5MHz), 26675 (1913.5MHz)	3MHz	QPSK	1 RB / 0 RB Offset
		26065 to 26665	26065 (1852.5MHz), 26365 (1882.5MHz), 26665 (1912.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		26090 to 26640	26090 (1855.0MHz), 26365 (1882.5MHz), 26640 (1910.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		26115 to 26615	26115 (1857.5MHz), 26365 (1882.5MHz), 26615 (1907.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		26140 to 26590	26140 (1860.0MHz), 26365 (1882.5MHz), 26590 (1905.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	26140 to 26590	26683 (1914.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	26047 to 26683	26047 (1850.7MHz), 26365 (1882.5MHz), 26683 (1914.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		26065 to 26665	26065 (1852.5MHz), 26365 (1882.5MHz), 26665 (1912.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		26140 to 26590	26140 (1860.0MHz), 26365 (1882.5MHz), 26590 (1905.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

Note:
1. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.
2. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5MHz & highest channel bandwidth for final test.
3. The output power for QPSK, 16QAM, 64QAM and 256QAM, measured value of QPSK is higher than 16QAM, 64QAM and 256QAM mode. Therefore, only Modulation characteristics, occupied bandwidth and Peak to average ratio items had been tested under QPSK, 16QAM, 64QAM and 256QAM modes, the other test items were performed under QPSK mode only.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP	22deg. C, 66%RH	120Vac, 60Hz	Han Wu
Modulation Characteristics	22deg. C, 66%RH	120Vac, 60Hz	Gavin Wu
Frequency Stability	22deg. C, 66%RH	3.85Vdc	Gavin Wu
Occupied Bandwidth	22deg. C, 66%RH	120Vac, 60Hz	Gavin Wu
Band Edge	22deg. C, 66%RH	120Vac, 60Hz	Gavin Wu
Peak To Average Ratio	22deg. C, 66%RH	120Vac, 60Hz	Gavin Wu
Conducted Emission	22deg. C, 66%RH	120Vac, 60Hz	Gavin Wu
Radiated Emission	22deg. C, 66%RH	120Vac, 60Hz	Han Wu

3.4 EUT Operating Conditions

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

3.5 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test Standard:

FCC 47 CFR Part 2

FCC 47 CFR Part 24

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

References Test Guidance:

KDB 971168 D01 Power Meas License Digital Systems v03r01

All test items have been performed and recorded as per the above standards.

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

Mobile / Portable station are limited to 2 watts e.i.r.p.

4.1.2 Test Procedures

EIRP / ERP Measurement:

a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m(below or equal 1GHz) and/or 1.5m(above 1GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.

b. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.

d. Following C63.26 section 5.2.7 and 5.2.2.4
   - EIRP (dBm) = E (dBμV/m) + 20log(D) - 104.8; where D is the measurement distance (in the far field region) in m.
   - ERP (dBm) = E (dBμV/m) + 20log(D) - 104.8 - 2.15; where D is the measurement distance (in the far field region) in m.

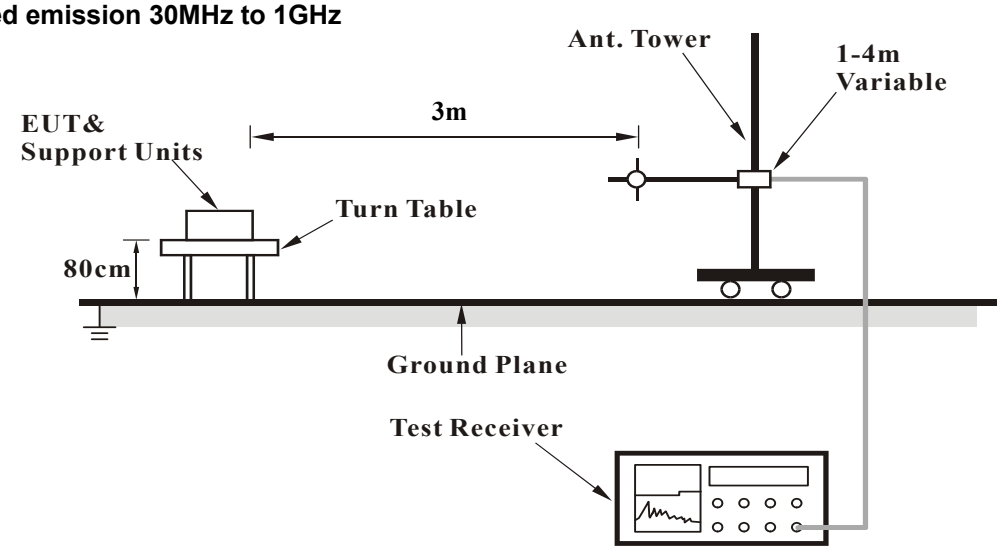
Conducted Power Measurement:

The EUT was set up for the maximum power with WCDMA, LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

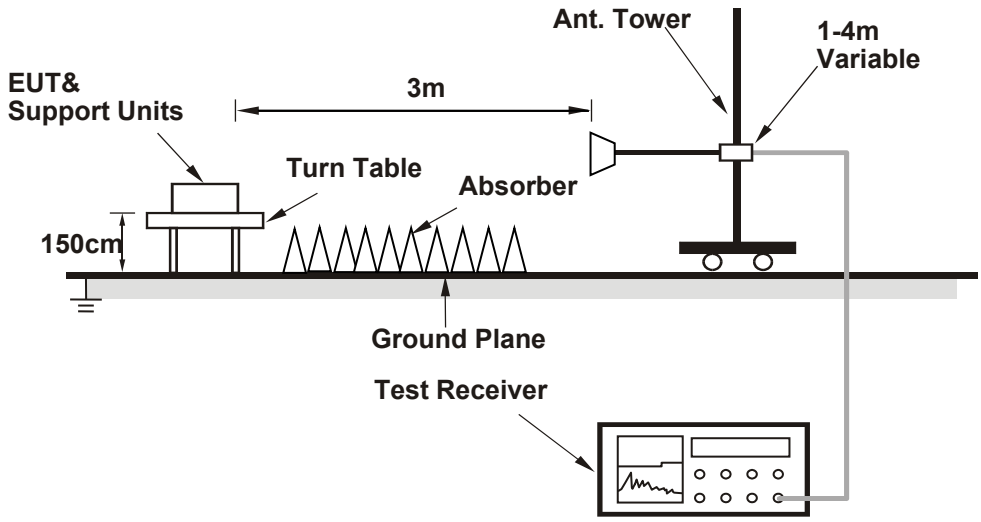
4.1.3 Test Setup

EIRP / ERP Measurement:

For radiated emission 30MHz to 1GHz



For radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

Conducted Power Measurement:

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.4 Test Results

Note: Conducted output power is for reference, and its EIRP power is mainly tested in radiated mode.

Conducted Output Power (dBm)

Band	WCDMA II		
TX Channel	9262	9400	9538
Rx Channel	9662	9800	9938
Frequency (MHz)	1852.4	1880	1907.6
RMC 12.2K	22.98	22.90	23.00
HSDPA Subtest-1	21.87	21.74	21.11
HSDPA Subtest-2	21.61	21.44	21.10
HSDPA Subtest-3	21.37	21.25	21.50
HSDPA Subtest-4	21.35	21.22	21.41
DC-HSDPA Subtest-1	21.74	21.65	21.00
DC-HSDPA Subtest-2	21.48	21.35	20.96
DC-HSDPA Subtest-3	21.29	21.12	21.40
DC-HSDPA Subtest-4	21.22	21.12	21.30
HSUPA Subtest-1	21.87	21.72	22.00
HSUPA Subtest-2	19.88	19.69	20.00
HSUPA Subtest-3	20.84	20.71	21.00
HSUPA Subtest-4	19.78	19.67	20.00
HSUPA Subtest-5	21.90	21.70	22.00

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18700	18900	19100
		Frequency (MHz)		1860	1880	1900
20M	QPSK	1	0	21.50	21.40	21.47
		1	50	21.39	21.32	21.33
		1	99	21.37	21.30	21.34
		50	0	20.50	20.41	20.45
		50	25	20.47	20.40	20.44
		50	50	20.44	20.44	20.41
		100	0	20.49	20.42	20.45
	16QAM	1	0	20.47	20.40	20.44
		1	50	20.40	20.33	20.37
		1	99	20.37	20.30	20.33
		50	0	19.48	19.40	19.41
		50	25	19.44	19.37	19.40
		50	50	19.43	19.34	19.38
		100	0	19.47	19.40	19.44
	64QAM	1	0	19.50	19.43	19.47
		1	50	19.46	19.37	19.41
		1	99	19.40	19.33	19.38
		50	0	18.47	18.42	18.46
		50	25	18.43	18.36	18.40
		50	50	18.40	18.32	18.34
		100	0	18.47	18.40	18.45
	256QAM	1	0	16.44	16.37	16.41
		1	50	16.40	16.32	16.36
		1	99	16.36	16.28	16.32
		50	0	16.43	16.38	16.43
		50	25	16.37	16.30	16.34
		50	50	16.37	16.30	16.34
		100	0	16.47	16.40	16.44

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18675	18900	19125
		Frequency (MHz)		1857.5	1880	1902.5
15M	QPSK	1	0	21.42	21.33	21.44
		1	37	21.39	21.32	21.23
		1	74	21.35	21.24	21.31
		36	0	20.40	20.36	20.41
		36	19	20.43	20.30	20.43
		36	39	20.40	20.35	20.32
		75	0	20.43	20.38	20.37
	16QAM	1	0	20.37	20.31	20.43
		1	37	20.40	20.32	20.37
		1	74	20.33	20.26	20.24
		36	0	19.45	19.36	19.32
		36	19	19.44	19.35	19.38
		36	39	19.43	19.32	19.36
		75	0	19.47	19.38	19.43
	64QAM	1	0	19.44	19.36	19.43
		1	37	19.41	19.28	19.40
		1	74	19.32	19.27	19.38
		36	0	18.46	18.37	18.39
		36	19	18.41	18.33	18.31
		36	39	18.40	18.25	18.30
		75	0	18.39	18.32	18.41
	256QAM	1	0	16.37	16.30	16.36
		1	37	16.40	16.29	16.33
		1	74	16.36	16.18	16.25
		36	0	16.33	16.36	16.42
		36	19	16.33	16.20	16.29
		36	39	16.34	16.28	16.28
		75	0	16.41	16.35	16.37

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10M	QPSK	1	0	21.44	21.30	21.33
		1	24	21.18	21.15	21.24
		1	49	21.27	21.20	21.30
		25	0	20.45	20.17	20.39
		25	12	20.42	20.25	20.33
		25	25	20.35	20.21	20.26
		50	0	20.38	20.19	20.29
	16QAM	1	0	20.27	20.22	20.33
		1	24	20.34	20.28	20.18
		1	49	20.35	20.13	20.16
		25	0	19.44	19.19	19.33
		25	12	19.24	19.17	19.24
		25	25	19.31	19.26	19.23
		50	0	19.45	19.19	19.26
	64QAM	1	0	19.39	19.22	19.31
		1	24	19.25	19.31	19.30
		1	49	19.21	19.18	19.26
		25	0	18.45	18.36	18.41
		25	12	18.41	18.17	18.30
		25	25	18.21	18.14	18.21
		50	0	18.40	18.32	18.35
	256QAM	1	0	16.35	16.24	16.25
		1	24	16.25	16.11	16.20
		1	49	16.17	16.19	16.28
		25	0	16.35	16.34	16.33
		25	12	16.30	16.12	16.22
		25	25	16.23	16.15	16.20
		50	0	16.40	16.25	16.26

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18625	18900	19175
		Frequency (MHz)		1852.5	1880	1907.5
5M	QPSK	1	0	21.36	21.19	21.30
		1	12	21.14	21.20	21.26
		1	24	21.16	21.18	21.09
		12	0	20.27	20.36	20.24
		12	6	20.30	20.29	20.29
		12	13	20.35	20.31	20.22
		25	0	20.37	20.37	20.39
	16QAM	1	0	20.39	20.27	20.25
		1	12	20.19	20.18	20.14
		1	24	20.24	20.21	20.22
		12	0	19.40	19.19	19.18
		12	6	19.25	19.21	19.27
		12	13	19.38	19.26	19.13
		25	0	19.35	19.26	19.31
	64QAM	1	0	19.45	19.28	19.32
		1	12	19.33	19.29	19.36
		1	24	19.26	19.20	19.28
		12	0	18.37	18.19	18.36
		12	6	18.20	18.25	18.17
		12	13	18.35	18.20	18.14
		25	0	18.33	18.33	18.33
	256QAM	1	0	16.30	16.15	16.38
		1	12	16.24	16.21	16.31
		1	24	16.21	16.23	16.20
		12	0	16.30	16.26	16.33
		12	6	16.28	16.20	16.18
		12	13	16.20	16.17	16.16
		25	0	16.28	16.28	16.32

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18615	18900	19185
		Frequency (MHz)		1851.5	1880	1908.5
3M	QPSK	1	0	21.32	21.30	21.27
		1	7	21.22	21.17	21.23
		1	14	21.23	21.26	21.21
		8	0	20.46	20.20	20.30
		8	3	20.39	20.19	20.41
		8	7	20.28	20.26	20.31
		15	0	20.43	20.32	20.27
	16QAM	1	0	20.33	20.19	20.29
		1	7	20.27	20.25	20.20
		1	14	20.21	20.19	20.22
		8	0	19.24	19.29	19.19
		8	3	19.30	19.12	19.23
		8	7	19.24	19.26	19.26
		15	0	19.29	19.24	19.29
	64QAM	1	0	19.30	19.25	19.40
		1	7	19.43	19.17	19.26
		1	14	19.32	19.26	19.27
		8	0	18.25	18.23	18.31
		8	3	18.27	18.25	18.36
		8	7	18.32	18.17	18.20
		15	0	18.44	18.29	18.32
	256QAM	1	0	16.24	16.31	16.35
		1	7	16.25	16.11	16.19
		1	14	16.24	16.09	16.25
		8	0	16.23	16.20	16.33
		8	3	16.23	16.14	16.23
		8	7	16.33	16.23	16.16
		15	0	16.35	16.25	16.29

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18607	18900	19193
		Frequency (MHz)		1850.7	1880	1909.3
1.4M	QPSK	1	0	21.39	21.17	21.40
		1	2	21.26	21.26	21.19
		1	5	21.32	21.15	21.18
		3	0	20.39	20.28	20.41
		3	1	20.28	20.24	20.27
		3	3	20.36	20.30	20.33
		6	0	20.36	20.30	20.38
	16QAM	1	0	20.35	20.16	20.28
		1	2	20.35	20.13	20.21
		1	5	20.18	20.22	20.23
		3	0	19.34	19.27	19.34
		3	1	19.34	19.27	19.22
		3	3	19.27	19.21	19.31
		6	0	19.29	19.22	19.29
	64QAM	1	0	19.35	19.30	19.22
		1	2	19.38	19.27	19.33
		1	5	19.20	19.23	19.29
		3	0	18.41	18.27	18.29
		3	1	18.26	18.30	18.26
		3	3	18.27	18.26	18.18
		6	0	18.41	18.35	18.32
	256QAM	1	0	16.35	16.27	16.27
		1	2	16.29	16.25	16.26
		1	5	16.17	16.17	16.15
		3	0	16.25	16.23	16.34
		3	1	16.35	16.16	16.13
		3	3	16.23	16.08	16.13
		6	0	16.31	16.34	16.34

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26140	26365	26590
		Frequency (MHz)		1860	1882.5	1905
20M	QPSK	1	0	22.83	22.74	22.93
		1	50	22.80	22.70	22.90
		1	99	22.80	22.70	22.90
		50	0	21.90	21.88	21.99
		50	25	21.92	21.82	21.97
		50	50	21.91	21.77	21.97
		100	0	21.94	21.85	22.00
	16QAM	1	0	21.98	21.90	22.00
		1	50	21.86	21.85	21.95
		1	99	21.82	21.80	21.90
		50	0	20.96	20.95	21.00
		50	25	20.90	20.85	20.98
		50	50	20.92	20.86	20.96
		100	0	20.91	20.82	20.96
	64QAM	1	0	20.92	20.89	20.94
		1	50	20.89	20.82	20.90
		1	99	20.78	20.73	20.88
		50	0	19.97	19.91	19.99
		50	25	19.93	19.85	19.95
		50	50	19.80	19.70	19.90
		100	0	19.78	19.78	19.82
	256QAM	1	0	17.93	17.88	17.99
		1	50	17.93	17.93	17.95
		1	99	17.91	17.91	17.91
		50	0	17.82	17.74	17.88
		50	25	17.84	17.74	17.90
		50	50	17.91	17.81	17.95
		100	0	17.99	17.89	17.99

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26115	26365	26615
		Frequency (MHz)		1857.5	1882.5	1907.5
15M	QPSK	1	0	22.74	22.66	22.89
		1	37	22.73	22.63	22.82
		1	74	22.71	22.70	22.88
		36	0	21.82	21.80	21.98
		36	19	21.88	21.75	21.89
		36	39	21.91	21.77	21.92
		75	0	21.93	21.83	21.90
	16QAM	1	0	21.90	21.85	21.92
		1	37	21.81	21.76	21.95
		1	74	21.78	21.73	21.81
		36	0	20.92	20.87	20.93
		36	19	20.86	20.75	20.95
		36	39	20.83	20.83	20.91
		75	0	20.83	20.78	20.89
	64QAM	1	0	20.82	20.82	20.88
		1	37	20.85	20.82	20.84
		1	74	20.76	20.64	20.88
		36	0	19.97	19.85	19.95
		36	19	19.91	19.77	19.90
		36	39	19.72	19.64	19.82
		75	0	19.68	19.76	19.80
	256QAM	1	0	17.87	17.87	17.92
		1	37	17.92	17.87	17.86
		1	74	17.82	17.84	17.90
		36	0	17.76	17.66	17.87
		36	19	17.74	17.73	17.88
		36	39	17.89	17.75	17.95
		75	0	17.90	17.89	17.94

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26090	26365	26640
		Frequency (MHz)		1855	1882.5	1910
10M	QPSK	1	0	22.71	22.57	22.77
		1	24	22.72	22.63	22.80
		1	49	22.59	22.55	22.78
		25	0	21.77	21.74	21.90
		25	12	21.84	21.78	21.85
		25	25	21.69	21.61	21.83
		50	0	21.86	21.78	21.84
	16QAM	1	0	21.92	21.76	21.96
		1	24	21.75	21.82	21.93
		1	49	21.66	21.68	21.82
		25	0	20.89	20.90	20.92
		25	12	20.69	20.66	20.87
		25	25	20.71	20.76	20.90
		50	0	20.74	20.66	20.78
	64QAM	1	0	20.79	20.76	20.76
		1	24	20.78	20.71	20.69
		1	49	20.67	20.56	20.73
		25	0	19.87	19.70	19.75
		25	12	19.77	19.72	19.84
		25	25	19.74	19.62	19.75
		50	0	19.70	19.67	19.71
	256QAM	1	0	17.72	17.73	17.89
		1	24	17.75	17.81	17.82
		1	49	17.76	17.82	17.81
		25	0	17.79	17.62	17.74
		25	12	17.69	17.53	17.69
		25	25	17.67	17.63	17.79
		50	0	17.82	17.77	17.91

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26065	26365	26665
		Frequency (MHz)		1852.5	1882.5	1912.5
5M	QPSK	1	0	22.66	22.63	22.70
		1	12	22.62	22.52	22.67
		1	24	22.67	22.51	22.87
		12	0	21.66	21.66	21.87
		12	6	21.78	21.77	21.70
		12	13	21.77	21.60	21.92
		25	0	21.83	21.79	21.69
	16QAM	1	0	21.81	21.77	21.80
		1	12	21.74	21.77	21.80
		1	24	21.73	21.73	21.83
		12	0	20.84	20.81	20.87
		12	6	20.83	20.69	20.89
		12	13	20.83	20.73	20.73
		25	0	20.83	20.75	20.91
	64QAM	1	0	20.84	20.83	20.77
		1	12	20.78	20.74	20.83
		1	24	20.55	20.69	20.73
		12	0	19.88	19.87	19.85
		12	6	19.85	19.62	19.81
		12	13	19.79	19.54	19.70
		25	0	19.72	19.71	19.64
	256QAM	1	0	17.89	17.79	17.88
		1	12	17.89	17.83	17.90
		1	24	17.79	17.79	17.76
		12	0	17.68	17.65	17.76
		12	6	17.71	17.57	17.79
		12	13	17.83	17.65	17.93
		25	0	17.79	17.79	17.85

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26055	26365	26675
		Frequency (MHz)		1851.5	1882.5	1913.5
3M	QPSK	1	0	22.76	22.53	22.91
		1	7	22.69	22.55	22.84
		1	14	22.67	22.60	22.66
		8	0	21.83	21.79	21.77
		8	3	21.83	21.67	21.89
		8	7	21.76	21.66	21.83
		15	0	21.69	21.71	21.87
	16QAM	1	0	21.86	21.89	21.80
		1	7	21.80	21.74	21.71
		1	14	21.72	21.65	21.74
		8	0	20.77	20.83	20.81
		8	3	20.82	20.72	20.87
		8	7	20.83	20.84	20.75
		15	0	20.87	20.66	20.79
	64QAM	1	0	20.74	20.77	20.84
		1	7	20.79	20.67	20.67
		1	14	20.61	20.63	20.80
		8	0	19.78	19.77	19.88
		8	3	19.84	19.67	19.91
		8	7	19.70	19.63	19.69
		15	0	19.76	19.66	19.76
	256QAM	1	0	17.88	17.76	17.81
		1	7	17.83	17.75	17.79
		1	14	17.86	17.75	17.66
		8	0	17.66	17.61	17.76
		8	3	17.72	17.57	17.76
		8	7	17.68	17.72	17.91
		15	0	17.92	17.85	17.92

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26047	26365	26683
		Frequency (MHz)		1850.7	1882.5	1914.3
1.4M	QPSK	1	0	22.72	22.65	22.79
		1	2	22.61	22.66	22.82
		1	5	22.71	22.60	22.75
		3	0	21.78	21.78	21.91
		3	1	21.77	21.79	21.82
		3	3	21.84	21.66	21.86
		6	0	21.80	21.63	21.90
	16QAM	1	0	21.86	21.78	21.91
		1	2	21.69	21.77	21.71
		1	5	21.64	21.67	21.81
		3	0	20.93	20.77	20.95
		3	1	20.76	20.75	20.86
		3	3	20.81	20.72	20.80
		6	0	20.83	20.65	20.77
	64QAM	1	0	20.70	20.76	20.75
		1	2	20.76	20.66	20.87
		1	5	20.75	20.48	20.71
		3	0	19.73	19.74	19.86
		3	1	19.78	19.76	19.88
		3	3	19.73	19.49	19.79
		6	0	19.67	19.74	19.74
	256QAM	1	0	17.76	17.77	17.91
		1	2	17.81	17.83	17.84
		1	5	17.87	17.70	17.87
		3	0	17.66	17.68	17.63
		3	1	17.81	17.63	17.81
		3	3	17.82	17.71	17.76
		6	0	17.97	17.75	17.76

EIRP Power (dBm)

Internal Antenna

WCDMA Band 2

Mode	TX channel 9262, 9400, 9538							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.40	18.30	33.00	-14.70	1.88 H	17	84.56	-66.26
2	1880.00	18.70	33.00	-14.30	1.52 H	19	84.81	-66.11
3	1910.00	18.40	33.00	-14.60	1.55 H	16	84.37	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.40	21.80	33.00	-11.20	1.92 V	291	88.06	-66.26
2	1880.00	22.00	33.00	-11.00	1.88 V	295	88.11	-66.11
3	1910.00	21.90	33.00	-11.10	1.89 V	295	87.87	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

Modulation Type: QPSK

LTE Band 2, Channel Bandwidth 1.4MHz

Mode	TX channel 18607, 18900, 19193							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	21.10	33.00	-11.90	1.95 H	188	87.37	-66.27
2	1880.00	21.50	33.00	-11.50	1.93 H	180	87.61	-66.11
3	1909.30	21.60	33.00	-11.40	1.98 H	187	87.57	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	23.60	33.00	-9.40	2.27 V	283	89.87	-66.27
2	1880.00	24.60	33.00	-8.40	2.31 V	289	90.71	-66.11
3	1909.30	24.20	33.00	-8.80	2.21 V	279	90.17	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 3MHz

Mode	TX channel 18615, 18900, 19185							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	20.80	33.00	-12.20	1.96 H	182	87.06	-66.26
2	1880.00	21.70	33.00	-11.30	2.03 H	188	87.81	-66.11
3	1908.50	21.80	33.00	-11.20	1.99 H	181	87.77	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	23.90	33.00	-9.10	2.29 V	284	90.16	-66.26
2	1880.00	24.20	33.00	-8.80	2.18 V	276	90.31	-66.11
3	1908.50	24.20	33.00	-8.80	2.24 V	280	90.17	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 5MHz

Mode	TX channel 18625, 18900, 19175							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	21.80	33.00	-11.20	1.93 H	178	88.06	-66.26
2	1880.00	21.60	33.00	-11.40	1.98 H	185	87.71	-66.11
3	1907.50	22.10	33.00	-10.90	2.02 H	189	88.07	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	24.00	33.00	-9.00	2.31 V	277	90.26	-66.26
2	1880.00	23.80	33.00	-9.20	2.23 V	286	89.91	-66.11
3	1907.50	24.20	33.00	-8.80	2.33 V	284	90.17	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 10MHz

Mode	TX channel 18650, 18900, 19150							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	20.90	33.00	-12.10	2.02 H	187	87.14	-66.24
2	1880.00	20.90	33.00	-12.10	1.99 H	181	87.01	-66.11
3	1905.00	21.40	33.00	-11.60	1.92 H	174	87.38	-65.98
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	23.80	33.00	-9.20	2.28 V	281	90.04	-66.24
2	1880.00	23.70	33.00	-9.30	2.21 V	278	89.81	-66.11
3	1905.00	24.10	33.00	-8.90	2.34 V	285	90.08	-65.98

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 15MHz

Mode	TX channel 18675, 18900, 19125							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	21.40	33.00	-11.60	1.96 H	180	87.63	-66.23
2	1880.00	21.10	33.00	-11.90	2.04 H	186	87.21	-66.11
3	1902.50	21.50	33.00	-11.50	1.97 H	188	87.49	-65.99
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	24.40	33.00	-8.60	2.21 V	278	90.63	-66.23
2	1880.00	24.60	33.00	-8.40	2.00 V	185	90.71	-66.11
3	1902.50	24.40	33.00	-8.60	1.96 V	181	90.39	-65.99

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 20MHz

Mode	TX channel 18675, 18900, 19125							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	21.50	33.00	-11.50	1.96 H	181	87.72	-66.22
2	1880.00	21.60	33.00	-11.40	2.05 H	177	87.71	-66.11
3	1900.00	21.50	33.00	-11.50	2.01 H	185	87.50	-66.00
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	23.70	33.00	-9.30	2.25 V	289	89.92	-66.22
2	1880.00	24.00	33.00	-9.00	2.21 V	284	90.11	-66.11
3	1900.00	24.70	33.00	-8.30	2.26 V	279	90.70	-66.00

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

Modulation Type: 16QAM

LTE Band 2, Channel Bandwidth 1.4MHz

Mode	TX channel 18607, 18900, 19193							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	20.20	33.00	-12.80	2.05 H	191	86.47	-66.27
2	1880.00	20.80	33.00	-12.20	2.07 H	194	86.91	-66.11
3	1909.30	20.60	33.00	-12.40	2.01 H	189	86.57	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	23.20	33.00	-9.80	2.34 V	291	89.47	-66.27
2	1880.00	23.50	33.00	-9.50	2.29 V	284	89.61	-66.11
3	1909.30	23.60	33.00	-9.40	2.20 V	279	89.57	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 3MHz

Mode	TX channel 18615, 18900, 19185							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	20.20	33.00	-12.80	1.93 H	187	86.46	-66.26
2	1880.00	20.40	33.00	-12.60	1.94 H	181	86.51	-66.11
3	1908.50	20.60	33.00	-12.40	1.99 H	187	86.57	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	23.10	33.00	-9.90	2.18 V	276	89.36	-66.26
2	1880.00	23.50	33.00	-9.50	2.24 V	291	89.61	-66.11
3	1908.50	23.50	33.00	-9.50	2.33 V	292	89.47	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 5MHz

Mode	TX channel 18625, 18900, 19175							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	20.10	33.00	-12.90	1.99 H	176	86.36	-66.26
2	1880.00	20.40	33.00	-12.60	2.05 H	193	86.51	-66.11
3	1907.50	20.50	33.00	-12.50	2.06 H	193	86.47	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	23.20	33.00	-9.80	2.27 V	291	89.46	-66.26
2	1880.00	23.40	33.00	-9.60	2.36 V	294	89.51	-66.11
3	1907.50	23.50	33.00	-9.50	2.27 V	289	89.47	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 10MHz

Mode	TX channel 18650, 18900, 19150							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	20.00	33.00	-13.00	2.06 H	189	86.24	-66.24
2	1880.00	20.40	33.00	-12.60	2.01 H	188	86.51	-66.11
3	1905.00	20.50	33.00	-12.50	1.99 H	188	86.48	-65.98
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	23.50	33.00	-9.50	2.26 V	291	89.74	-66.24
2	1880.00	23.40	33.00	-9.60	2.26 V	284	89.51	-66.11
3	1905.00	23.50	33.00	-9.50	2.25 V	279	89.48	-65.98

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 15MHz

Mode	TX channel 18675, 18900, 19125							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	20.40	33.00	-12.60	1.96 H	180	86.63	-66.23
2	1880.00	20.10	33.00	-12.90	2.04 H	186	86.21	-66.11
3	1902.50	20.50	33.00	-12.50	1.97 H	188	86.49	-65.99
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	23.30	33.00	-9.70	2.26 V	279	89.53	-66.23
2	1880.00	23.40	33.00	-9.60	2.29 V	284	89.51	-66.11
3	1902.50	23.40	33.00	-9.60	2.37 V	284	89.39	-65.99

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 20MHz

Mode	TX channel 18675, 18900, 19125							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	20.40	33.00	-12.60	2.03 H	187	86.62	-66.22
2	1880.00	20.34	33.00	-12.66	2.05 H	191	86.45	-66.11
3	1900.00	20.30	33.00	-12.70	1.98 H	188	86.30	-66.00
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	23.30	33.00	-9.70	2.18 V	279	89.52	-66.22
2	1880.00	23.40	33.00	-9.60	2.34 V	288	89.51	-66.11
3	1900.00	23.60	33.00	-9.40	2.19 V	284	89.60	-66.00

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

Modulation Type: 64QAM

LTE Band 2, Channel Bandwidth 1.4MHz

Mode	TX channel 18607, 18900, 19193							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	20.30	33.00	-12.70	2.08 H	178	86.57	-66.27
2	1880.00	19.60	33.00	-13.40	2.09 H	175	85.71	-66.11
3	1909.30	19.50	33.00	-13.50	2.02 H	177	85.47	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	22.70	33.00	-10.30	2.28 V	281	88.97	-66.27
2	1880.00	22.80	33.00	-10.20	2.30 V	282	88.91	-66.11
3	1909.30	22.60	33.00	-10.40	2.21 V	280	88.57	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 3MHz

Mode	TX channel 18615, 18900, 19185							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	20.20	33.00	-12.80	2.00 H	179	86.46	-66.26
2	1880.00	19.70	33.00	-13.30	2.07 H	177	85.81	-66.11
3	1908.50	19.70	33.00	-13.30	2.07 H	179	85.67	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	22.00	33.00	-11.00	2.28 V	278	88.26	-66.26
2	1880.00	22.70	33.00	-10.30	2.28 V	276	88.81	-66.11
3	1908.50	22.50	33.00	-10.50	2.30 V	282	88.47	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 5MHz

Mode	TX channel 18625, 18900, 19175							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	19.60	33.00	-13.40	2.04 H	180	85.86	-66.26
2	1880.00	19.80	33.00	-13.20	2.10 H	181	85.91	-66.11
3	1907.50	20.30	33.00	-12.70	2.08 H	180	86.27	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	22.60	33.00	-10.40	2.23 V	281	88.86	-66.26
2	1880.00	22.40	33.00	-10.60	2.29 V	276	88.51	-66.11
3	1907.50	22.60	33.00	-10.40	2.29 V	283	88.57	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 10MHz

Mode	TX channel 18650, 18900, 19150							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	19.70	33.00	-13.30	2.04 H	174	85.94	-66.24
2	1880.00	19.80	33.00	-13.20	2.10 H	178	85.91	-66.11
3	1905.00	20.00	33.00	-13.00	2.06 H	176	85.98	-65.98
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	22.40	33.00	-10.60	2.21 V	277	88.64	-66.24
2	1880.00	22.10	33.00	-10.90	2.23 V	282	88.21	-66.11
3	1905.00	22.80	33.00	-10.20	2.25 V	280	88.78	-65.98

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 15MHz

Mode	TX channel 18675, 18900, 19125							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	20.40	33.00	-12.60	2.00 H	178	86.63	-66.23
2	1880.00	19.30	33.00	-13.70	2.06 H	178	85.41	-66.11
3	1902.50	19.40	33.00	-13.60	2.02 H	179	85.39	-65.99
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	22.60	33.00	-10.40	2.25 V	279	88.83	-66.23
2	1880.00	22.70	33.00	-10.30	2.23 V	279	88.81	-66.11
3	1902.50	22.30	33.00	-10.70	2.21 V	282	88.29	-65.99

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 20MHz

Mode	TX channel 18675, 18900, 19125							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	19.20	33.00	-13.80	2.01 H	174	85.42	-66.22
2	1880.00	19.80	33.00	-13.20	2.05 H	181	85.91	-66.11
3	1900.00	19.80	33.00	-13.20	2.02 H	174	85.80	-66.00
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	22.80	33.00	-10.20	2.25 V	281	89.02	-66.22
2	1880.00	22.20	33.00	-10.80	2.29 V	281	88.31	-66.11
3	1900.00	22.60	33.00	-10.40	2.23 V	276	88.60	-66.00

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

Modulation Type: 256QAM

LTE Band 2, Channel Bandwidth 1.4MHz

Mode	TX channel 18607, 18900, 19193							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	17.70	33.00	-15.30	2.03 H	173	83.97	-66.27
2	1880.00	17.10	33.00	-15.90	2.02 H	172	83.21	-66.11
3	1909.30	17.80	33.00	-15.20	1.99 H	175	83.77	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	21.10	33.00	-11.90	2.33 V	284	87.37	-66.27
2	1880.00	20.90	33.00	-12.10	2.27 V	285	87.01	-66.11
3	1909.30	21.30	33.00	-11.70	2.28 V	285	87.27	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 3MHz

Mode	TX channel 18615, 18900, 19185							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	17.60	33.00	-15.40	2.05 H	176	83.86	-66.26
2	1880.00	17.40	33.00	-15.60	1.99 H	176	83.51	-66.11
3	1908.50	17.70	33.00	-15.30	2.04 H	172	83.67	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	21.00	33.00	-12.00	2.34 V	284	87.26	-66.26
2	1880.00	20.40	33.00	-12.60	2.33 V	280	86.51	-66.11
3	1908.50	20.70	33.00	-12.30	2.24 V	281	86.67	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 5MHz

Mode	TX channel 18625, 18900, 19175							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	17.20	33.00	-15.80	2.04 H	175	83.46	-66.26
2	1880.00	17.40	33.00	-15.60	1.96 H	172	83.51	-66.11
3	1907.50	17.50	33.00	-15.50	1.97 H	172	83.47	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	20.90	33.00	-12.10	2.28 V	281	87.16	-66.26
2	1880.00	20.30	33.00	-12.70	2.25 V	280	86.41	-66.11
3	1907.50	20.80	33.00	-12.20	2.29 V	282	86.77	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 10MHz

Mode	TX channel 18650, 18900, 19150							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	17.30	33.00	-15.70	2.02 H	175	83.54	-66.24
2	1880.00	17.40	33.00	-15.60	1.98 H	171	83.51	-66.11
3	1905.00	17.90	33.00	-15.10	2.00 H	172	83.88	-65.98
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	19.90	33.00	-13.10	2.27 V	283	86.14	-66.24
2	1880.00	20.60	33.00	-12.40	2.29 V	281	86.71	-66.11
3	1905.00	20.60	33.00	-12.40	2.34 V	282	86.58	-65.98

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 15MHz

Mode	TX channel 18675, 18900, 19125							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	17.80	33.00	-15.20	2.06 H	176	84.03	-66.23
2	1880.00	17.60	33.00	-15.40	2.00 H	178	83.71	-66.11
3	1902.50	18.00	33.00	-15.00	2.04 H	174	83.99	-65.99
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	20.30	33.00	-12.70	2.27 V	282	86.53	-66.23
2	1880.00	20.30	33.00	-12.70	2.26 V	285	86.41	-66.11
3	1902.50	20.50	33.00	-12.50	2.26 V	278	86.49	-65.99

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 20MHz

Mode	TX channel 18675, 18900, 19125							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	17.50	33.00	-15.50	2.00 H	172	83.72	-66.22
2	1880.00	17.50	33.00	-15.50	1.99 H	171	83.61	-66.11
3	1900.00	18.40	33.00	-14.60	2.00 H	175	84.40	-66.00
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	20.50	33.00	-12.50	2.33 V	282	86.72	-66.22
2	1880.00	20.80	33.00	-12.20	2.26 V	280	86.91	-66.11
3	1900.00	21.20	33.00	-11.80	2.25 V	281	87.20	-66.00

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

Modulation Type: QPSK

LTE Band 25, Channel Bandwidth 1.4MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	17.30	33.00	-15.70	1.37 H	9	83.57	-66.27
2	1882.50	16.60	33.00	-16.40	1.41 H	6	82.69	-66.09
3	1914.30	16.80	33.00	-16.20	1.33 H	7	82.74	-65.94
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	22.40	33.00	-10.60	2.25 V	262	88.67	-66.27
2	1882.50	23.00	33.00	-10.00	2.27 V	256	89.09	-66.09
3	1914.30	22.80	33.00	-10.20	2.26 V	257	88.74	-65.94

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 3MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	16.90	33.00	-16.10	1.37 H	6	83.16	-66.26
2	1882.50	17.10	33.00	-15.90	1.41 H	12	83.19	-66.09
3	1913.50	16.90	33.00	-16.10	1.35 H	10	82.84	-65.94
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	22.10	33.00	-10.90	2.24 V	257	88.36	-66.26
2	1882.50	22.60	33.00	-10.40	2.26 V	257	88.69	-66.09
3	1913.50	22.60	33.00	-10.40	2.23 V	256	88.54	-65.94

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 5MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	17.30	33.00	-15.70	1.36 H	13	83.56	-66.26
2	1882.50	16.80	33.00	-16.20	1.38 H	7	82.89	-66.09
3	1912.50	17.10	33.00	-15.90	1.38 H	8	83.05	-65.95
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	22.60	33.00	-10.40	2.29 V	258	88.86	-66.26
2	1882.50	22.30	33.00	-10.70	2.26 V	259	88.39	-66.09
3	1912.50	23.00	33.00	-10.00	2.20 V	256	88.95	-65.95

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 10MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	16.50	33.00	-16.50	1.39 H	9	82.74	-66.24
2	1882.50	17.40	33.00	-15.60	1.40 H	11	83.49	-66.09
3	1910.00	17.40	33.00	-15.60	1.39 H	13	83.37	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	22.80	33.00	-10.20	2.28 V	261	89.04	-66.24
2	1882.50	22.90	33.00	-10.10	2.28 V	256	88.99	-66.09
3	1910.00	23.30	33.00	-9.70	2.27 V	258	89.27	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 15MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	17.20	33.00	-15.80	1.37 H	12	83.43	-66.23
2	1882.50	16.50	33.00	-16.50	1.35 H	6	82.59	-66.09
3	1907.50	17.10	33.00	-15.90	1.36 H	6	83.07	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	22.30	33.00	-10.70	2.29 V	258	88.53	-66.23
2	1882.50	23.00	33.00	-10.00	2.27 V	256	89.09	-66.09
3	1907.50	22.50	33.00	-10.50	2.23 V	258	88.47	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 20MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	17.20	33.00	-15.80	1.35 H	12	83.42	-66.22
2	1882.50	17.00	33.00	-16.00	1.36 H	13	83.09	-66.09
3	1905.00	17.20	33.00	-15.80	1.33 H	11	83.18	-65.98
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	23.00	33.00	-10.00	2.20 V	262	89.22	-66.22
2	1882.50	23.50	33.00	-9.50	2.27 V	256	89.59	-66.09
3	1905.00	22.90	33.00	-10.10	2.19 V	257	88.88	-65.98

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

Modulation Type: 16QAM

LTE Band 25, Channel Bandwidth 1.4MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	16.20	33.00	-16.80	1.34 H	12	82.47	-66.27
2	1882.50	15.50	33.00	-17.50	1.40 H	9	81.59	-66.09
3	1914.30	15.80	33.00	-17.20	1.39 H	8	81.74	-65.94
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	21.30	33.00	-11.70	2.20 V	257	87.57	-66.27
2	1882.50	22.20	33.00	-10.80	2.20 V	261	88.29	-66.09
3	1914.30	21.90	33.00	-11.10	2.24 V	256	87.84	-65.94

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 3MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	15.70	33.00	-17.30	1.35 H	6	81.96	-66.26
2	1882.50	16.20	33.00	-16.80	1.37 H	10	82.29	-66.09
3	1913.50	15.80	33.00	-17.20	1.32 H	10	81.74	-65.94
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	21.20	33.00	-11.80	2.29 V	258	87.46	-66.26
2	1882.50	21.50	33.00	-11.50	2.25 V	260	87.59	-66.09
3	1913.50	21.40	33.00	-11.60	2.23 V	260	87.34	-65.94

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 5MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	16.30	33.00	-16.70	1.37 H	10	82.56	-66.26
2	1882.50	15.60	33.00	-17.40	1.32 H	8	81.69	-66.09
3	1912.50	16.14	33.00	-16.86	1.33 H	12	82.09	-65.95
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	21.50	33.00	-11.50	2.22 V	262	87.76	-66.26
2	1882.50	21.40	33.00	-11.60	2.26 V	259	87.49	-66.09
3	1912.50	22.20	33.00	-10.80	2.28 V	260	88.15	-65.95

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 10MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	15.50	33.00	-17.50	1.33 H	9	81.74	-66.24
2	1882.50	16.20	33.00	-16.80	1.37 H	9	82.29	-66.09
3	1910.00	16.20	33.00	-16.80	1.38 H	6	82.17	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	21.60	33.00	-11.40	2.23 V	257	87.84	-66.24
2	1882.50	22.00	33.00	-11.00	2.19 V	262	88.09	-66.09
3	1910.00	22.40	33.00	-10.60	2.26 V	259	88.37	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 15MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	16.20	33.00	-16.80	1.41 H	10	82.43	-66.23
2	1882.50	15.50	33.00	-17.50	1.36 H	9	81.59	-66.09
3	1907.50	16.00	33.00	-17.00	1.32 H	8	81.97	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	21.10	33.00	-11.90	2.19 V	262	87.33	-66.23
2	1882.50	22.10	33.00	-10.90	2.28 V	260	88.19	-66.09
3	1907.50	21.70	33.00	-11.30	2.25 V	261	87.67	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 20MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	16.00	33.00	-17.00	1.36 H	10	82.22	-66.22
2	1882.50	16.10	33.00	-16.90	1.41 H	10	82.19	-66.09
3	1905.00	16.40	33.00	-16.60	1.35 H	10	82.38	-65.98
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	21.20	33.00	-11.80	2.23 V	262	87.42	-66.22
2	1882.50	21.70	33.00	-11.30	2.23 V	257	87.79	-66.09
3	1905.00	22.10	33.00	-10.90	2.19 V	261	88.08	-65.98

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

Modulation Type: 64QAM

LTE Band 25, Channel Bandwidth 1.4MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	15.80	33.00	-17.20	1.32 H	13	82.07	-66.27
2	1882.50	15.00	33.00	-18.00	1.42 H	11	81.09	-66.09
3	1914.30	15.40	33.00	-17.60	1.39 H	13	81.34	-65.94
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	20.90	33.00	-12.10	2.25 V	260	87.17	-66.27
2	1882.50	21.60	33.00	-11.40	2.24 V	263	87.69	-66.09
3	1914.30	21.50	33.00	-11.50	2.26 V	262	87.44	-65.94

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 3MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	15.20	33.00	-17.80	1.39 H	12	81.46	-66.26
2	1882.50	15.60	33.00	-17.40	1.40 H	12	81.69	-66.09
3	1913.50	15.40	33.00	-17.60	1.34 H	13	81.34	-65.94
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	20.60	33.00	-12.40	2.23 V	262	86.86	-66.26
2	1882.50	20.90	33.00	-12.10	2.23 V	262	86.99	-66.09
3	1913.50	20.80	33.00	-12.20	2.27 V	261	86.74	-65.94

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 5MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	15.70	33.00	-17.30	1.41 H	9	81.96	-66.26
2	1882.50	15.10	33.00	-17.90	1.34 H	9	81.19	-66.09
3	1912.50	15.50	33.00	-17.50	1.39 H	10	81.45	-65.95
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	21.10	33.00	-11.90	2.20 V	256	87.36	-66.26
2	1882.50	21.00	33.00	-12.00	2.23 V	260	87.09	-66.09
3	1912.50	21.70	33.00	-11.30	2.26 V	263	87.65	-65.95

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 10MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	15.10	33.00	-17.90	1.39 H	13	81.34	-66.24
2	1882.50	15.80	33.00	-17.20	1.40 H	11	81.89	-66.09
3	1910.00	15.70	33.00	-17.30	1.39 H	7	81.67	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	21.20	33.00	-11.80	2.26 V	257	87.44	-66.24
2	1882.50	21.60	33.00	-11.40	2.27 V	258	87.69	-66.09
3	1910.00	22.00	33.00	-11.00	2.24 V	258	87.97	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 15MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	15.60	33.00	-17.40	1.41 H	12	81.83	-66.23
2	1882.50	14.90	33.00	-18.10	1.42 H	11	80.99	-66.09
3	1907.50	15.50	33.00	-17.50	1.42 H	9	81.47	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	20.60	33.00	-12.40	2.24 V	262	86.83	-66.23
2	1882.50	21.60	33.00	-11.40	2.28 V	257	87.69	-66.09
3	1907.50	21.20	33.00	-11.80	2.21 V	262	87.17	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 20MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	15.60	33.00	-17.40	1.37 H	7	81.82	-66.22
2	1882.50	15.50	33.00	-17.50	1.35 H	13	81.59	-66.09
3	1905.00	15.90	33.00	-17.10	1.41 H	9	81.88	-65.98
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	20.60	33.00	-12.40	2.29 V	259	86.82	-66.22
2	1882.50	21.30	33.00	-11.70	2.28 V	263	87.39	-66.09
3	1905.00	21.50	33.00	-11.50	2.24 V	256	87.48	-65.98

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

Modulation Type: 256QAM

LTE Band 25, Channel Bandwidth 1.4MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	13.50	33.00	-19.50	1.34 H	15	79.77	-66.27
2	1882.50	13.50	33.00	-19.50	1.31 H	14	79.59	-66.09
3	1914.30	13.90	33.00	-19.10	1.40 H	14	79.84	-65.94
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	19.30	33.00	-13.70	2.33 V	267	85.57	-66.27
2	1882.50	19.00	33.00	-14.00	2.31 V	261	85.09	-66.09
3	1914.30	19.10	33.00	-13.90	2.32 V	264	85.04	-65.94

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 3MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	13.30	33.00	-19.70	1.38 H	11	79.56	-66.26
2	1882.50	14.00	33.00	-19.00	1.31 H	15	80.09	-66.09
3	1913.50	13.90	33.00	-19.10	1.36 H	17	79.84	-65.94
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	19.00	33.00	-14.00	2.25 V	260	85.26	-66.26
2	1882.50	18.70	33.00	-14.30	2.33 V	260	84.79	-66.09
3	1913.50	18.90	33.00	-14.10	2.29 V	262	84.84	-65.94

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 5MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	13.40	33.00	-19.60	1.40 H	11	79.66	-66.26
2	1882.50	13.70	33.00	-19.30	1.35 H	16	79.79	-66.09
3	1912.50	13.70	33.00	-19.30	1.30 H	15	79.65	-65.95
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	19.10	33.00	-13.90	2.33 V	260	85.36	-66.26
2	1882.50	18.50	33.00	-14.50	2.29 V	262	84.59	-66.09
3	1912.50	19.50	33.00	-13.50	2.31 V	266	85.45	-65.95

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 10MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	13.50	33.00	-19.50	1.39 H	11	79.74	-66.24
2	1882.50	13.40	33.00	-19.60	1.40 H	14	79.49	-66.09
3	1910.00	14.10	33.00	-18.90	1.38 H	11	80.07	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	18.70	33.00	-14.30	2.25 V	266	84.94	-66.24
2	1882.50	19.40	33.00	-13.60	2.23 V	264	85.49	-66.09
3	1910.00	18.90	33.00	-14.10	2.29 V	261	84.87	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 15MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	13.50	33.00	-19.50	1.32 H	15	79.73	-66.23
2	1882.50	13.40	33.00	-19.60	1.35 H	16	79.49	-66.09
3	1907.50	13.30	33.00	-19.70	1.37 H	14	79.27	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	18.80	33.00	-14.20	2.32 V	261	85.03	-66.23
2	1882.50	18.80	33.00	-14.20	2.27 V	261	84.89	-66.09
3	1907.50	19.20	33.00	-13.80	2.31 V	263	85.17	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 20MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	13.50	33.00	-19.50	1.40 H	15	79.72	-66.22
2	1882.50	13.00	33.00	-20.00	1.39 H	17	79.09	-66.09
3	1905.00	13.70	33.00	-19.30	1.33 H	17	79.68	-65.98
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	18.70	33.00	-14.30	2.33 V	266	84.92	-66.22
2	1882.50	19.30	33.00	-13.70	2.26 V	264	85.39	-66.09
3	1905.00	18.80	33.00	-14.20	2.29 V	267	84.78	-65.98

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

External Antenna

WCDMA Band 2

Mode	TX channel 9262, 9400, 9538							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.40	15.40	33.00	-17.60	3.96 H	10	81.66	-66.26
2	1880.00	15.70	33.00	-17.30	3.92 H	12	81.81	-66.11
3	1910.00	15.40	33.00	-17.60	3.91 H	10	81.37	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.40	20.70	33.00	-12.30	1.21 V	88	86.96	-66.26
2	1880.00	21.00	33.00	-12.00	1.19 V	86	87.11	-66.11
3	1910.00	20.80	33.00	-12.20	1.11 V	84	86.77	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

Modulation Type: QPSK

LTE Band 2, Channel Bandwidth 1.4MHz

Mode	TX channel 18607, 18900, 19193							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	11.80	33.00	-21.20	3.90 H	14	78.07	-66.27
2	1880.00	12.20	33.00	-20.80	3.90 H	14	78.31	-66.11
3	1909.30	12.30	33.00	-20.70	3.96 H	12	78.27	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	19.00	33.00	-14.00	1.09 V	315	85.27	-66.27
2	1880.00	19.30	33.00	-13.70	1.08 V	319	85.41	-66.11
3	1909.30	19.00	33.00	-14.00	1.02 V	318	84.97	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 3MHz

Mode	TX channel 18615, 18900, 19185							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	12.10	33.00	-20.90	3.93 H	10	78.36	-66.26
2	1880.00	12.20	33.00	-20.80	3.89 H	13	78.31	-66.11
3	1908.50	11.60	33.00	-21.40	3.89 H	10	77.57	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	19.10	33.00	-13.90	1.09 V	321	85.36	-66.26
2	1880.00	19.00	33.00	-14.00	1.10 V	320	85.11	-66.11
3	1908.50	19.00	33.00	-14.00	1.09 V	316	84.97	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 5MHz

Mode	TX channel 18625, 18900, 19175							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	12.00	33.00	-21.00	3.91 H	13	78.26	-66.26
2	1880.00	11.80	33.00	-21.20	3.94 H	10	77.91	-66.11
3	1907.50	11.70	33.00	-21.30	3.97 H	14	77.67	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	19.30	33.00	-13.70	1.10 V	318	85.56	-66.26
2	1880.00	19.30	33.00	-13.70	1.10 V	316	85.41	-66.11
3	1907.50	19.20	33.00	-13.80	1.04 V	315	85.17	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 10MHz

Mode	TX channel 18650, 18900, 19150							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	12.00	33.00	-21.00	3.89 H	11	78.24	-66.24
2	1880.00	12.30	33.00	-20.70	3.96 H	13	78.41	-66.11
3	1905.00	12.00	33.00	-21.00	3.89 H	11	77.98	-65.98
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	19.00	33.00	-14.00	1.10 V	315	85.24	-66.24
2	1880.00	19.10	33.00	-13.90	1.01 V	320	85.21	-66.11
3	1905.00	19.50	33.00	-13.50	1.10 V	319	85.48	-65.98

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 15MHz

Mode	TX channel 18675, 18900, 19125							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	11.90	33.00	-21.10	3.95 H	8	78.13	-66.23
2	1880.00	11.70	33.00	-21.30	3.94 H	9	77.81	-66.11
3	1902.50	12.00	33.00	-21.00	3.95 H	7	77.99	-65.99
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	19.40	33.00	-13.60	1.10 V	318	85.63	-66.23
2	1880.00	19.30	33.00	-13.70	1.00 V	321	85.41	-66.11
3	1902.50	19.20	33.00	-13.80	1.03 V	317	85.19	-65.99

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 20MHz

Mode	TX channel 18675, 18900, 19125							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	12.00	33.00	-21.00	3.93 H	7	78.22	-66.22
2	1880.00	11.50	33.00	-21.50	3.92 H	14	77.61	-66.11
3	1900.00	12.20	33.00	-20.80	3.94 H	13	78.20	-66.00
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	19.50	33.00	-13.50	1.09 V	322	85.72	-66.22
2	1880.00	19.00	33.00	-14.00	1.02 V	320	85.11	-66.11
3	1900.00	19.10	33.00	-13.90	1.04 V	315	85.10	-66.00

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

Modulation Type: 16QAM

LTE Band 2, Channel Bandwidth 1.4MHz

Mode	TX channel 18607, 18900, 19193							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	10.60	33.00	-22.40	3.89 H	9	76.87	-66.27
2	1880.00	11.00	33.00	-22.00	3.91 H	9	77.11	-66.11
3	1909.30	11.50	33.00	-21.50	3.91 H	14	77.47	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	18.00	33.00	-15.00	1.09 V	315	84.27	-66.27
2	1880.00	18.30	33.00	-14.70	1.08 V	319	84.41	-66.11
3	1909.30	18.00	33.00	-15.00	1.02 V	318	83.97	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 3MHz

Mode	TX channel 18615, 18900, 19185							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	11.20	33.00	-21.80	3.89 H	13	77.46	-66.26
2	1880.00	11.10	33.00	-21.90	3.88 H	11	77.21	-66.11
3	1908.50	10.40	33.00	-22.60	3.92 H	11	76.37	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	18.10	33.00	-14.90	1.09 V	321	84.36	-66.26
2	1880.00	18.00	33.00	-15.00	1.10 V	320	84.11	-66.11
3	1908.50	18.00	33.00	-15.00	1.09 V	316	83.97	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 5MHz

Mode	TX channel 18625, 18900, 19175							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	11.00	33.00	-22.00	3.87 H	12	77.26	-66.26
2	1880.00	10.80	33.00	-22.20	3.92 H	10	76.91	-66.11
3	1907.50	10.50	33.00	-22.50	3.91 H	11	76.47	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	18.30	33.00	-14.70	1.10 V	318	84.56	-66.26
2	1880.00	18.30	33.00	-14.70	1.10 V	316	84.41	-66.11
3	1907.50	18.20	33.00	-14.80	1.04 V	315	84.17	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 10MHz

Mode	TX channel 18650, 18900, 19150							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	10.80	33.00	-22.20	3.89 H	14	77.04	-66.24
2	1880.00	11.10	33.00	-21.90	3.89 H	9	77.21	-66.11
3	1905.00	11.00	33.00	-22.00	3.90 H	13	76.98	-65.98
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	18.00	33.00	-15.00	1.10 V	315	84.24	-66.24
2	1880.00	18.10	33.00	-14.90	1.01 V	320	84.21	-66.11
3	1905.00	18.50	33.00	-14.50	1.10 V	319	84.48	-65.98

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 15MHz

Mode	TX channel 18675, 18900, 19125							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	10.70	33.00	-22.30	3.92 H	12	76.93	-66.23
2	1880.00	10.50	33.00	-22.50	3.92 H	13	76.61	-66.11
3	1902.50	10.90	33.00	-22.10	3.93 H	13	76.89	-65.99
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	18.40	33.00	-14.60	1.10 V	318	84.63	-66.23
2	1880.00	18.30	33.00	-14.70	1.00 V	321	84.41	-66.11
3	1902.50	18.20	33.00	-14.80	1.03 V	317	84.19	-65.99

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 20MHz

Mode	TX channel 18675, 18900, 19125							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	10.90	33.00	-22.10	3.90 H	8	77.12	-66.22
2	1880.00	11.30	33.00	-21.70	3.87 H	14	77.41	-66.11
3	1900.00	11.00	33.00	-22.00	3.92 H	7	77.00	-66.00
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	18.50	33.00	-14.50	1.09 V	322	84.72	-66.22
2	1880.00	18.00	33.00	-15.00	1.02 V	320	84.11	-66.11
3	1900.00	18.10	33.00	-14.90	1.04 V	315	84.10	-66.00

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

Modulation Type: 64QAM

LTE Band 2, Channel Bandwidth 1.4MHz

Mode	TX channel 18607, 18900, 19193							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	10.20	33.00	-22.80	3.96 H	11	76.47	-66.27
2	1880.00	10.60	33.00	-22.40	3.91 H	9	76.71	-66.11
3	1909.30	11.10	33.00	-21.90	3.95 H	13	77.07	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	17.50	33.00	-15.50	1.09 V	315	83.77	-66.27
2	1880.00	17.70	33.00	-15.30	1.08 V	319	83.81	-66.11
3	1909.30	17.50	33.00	-15.50	1.02 V	318	83.47	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 3MHz

Mode	TX channel 18615, 18900, 19185							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	10.80	33.00	-22.20	3.89 H	14	77.06	-66.26
2	1880.00	10.50	33.00	-22.50	3.97 H	8	76.61	-66.11
3	1908.50	9.80	33.00	-23.20	3.94 H	14	75.77	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	17.60	33.00	-15.40	1.09 V	321	83.86	-66.26
2	1880.00	17.50	33.00	-15.50	1.10 V	320	83.61	-66.11
3	1908.50	17.40	33.00	-15.60	1.09 V	316	83.37	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 5MHz

Mode	TX channel 18625, 18900, 19175							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	10.40	33.00	-22.60	3.91 H	12	76.66	-66.26
2	1880.00	10.40	33.00	-22.60	3.89 H	12	76.51	-66.11
3	1907.50	9.90	33.00	-23.10	3.95 H	8	75.87	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	17.70	33.00	-15.30	1.10 V	318	83.96	-66.26
2	1880.00	17.80	33.00	-15.20	1.10 V	316	83.91	-66.11
3	1907.50	17.60	33.00	-15.40	1.04 V	315	83.57	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 10MHz

Mode	TX channel 18650, 18900, 19150							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	10.20	33.00	-22.80	3.87 H	11	76.44	-66.24
2	1880.00	10.70	33.00	-22.30	3.94 H	11	76.81	-66.11
3	1905.00	10.50	33.00	-22.50	3.95 H	13	76.48	-65.98
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	17.40	33.00	-15.60	1.10 V	315	83.64	-66.24
2	1880.00	17.60	33.00	-15.40	1.01 V	320	83.71	-66.11
3	1905.00	17.70	33.00	-15.30	1.10 V	319	83.68	-65.98

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 15MHz

Mode	TX channel 18675, 18900, 19125							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	10.20	33.00	-22.80	3.95 H	12	76.43	-66.23
2	1880.00	10.00	33.00	-23.00	3.87 H	13	76.11	-66.11
3	1902.50	10.50	33.00	-22.50	3.87 H	14	76.49	-65.99
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	17.90	33.00	-15.10	1.10 V	318	84.13	-66.23
2	1880.00	17.80	33.00	-15.20	1.00 V	321	83.91	-66.11
3	1902.50	17.70	33.00	-15.30	1.03 V	317	83.69	-65.99

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 20MHz

Mode	TX channel 18675, 18900, 19125							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	10.40	33.00	-22.60	3.92 H	14	76.62	-66.22
2	1880.00	10.80	33.00	-22.20	3.95 H	9	76.91	-66.11
3	1900.00	10.40	33.00	-22.60	3.88 H	14	76.40	-66.00
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	18.00	33.00	-15.00	1.09 V	322	84.22	-66.22
2	1880.00	17.60	33.00	-15.40	1.02 V	320	83.71	-66.11
3	1900.00	17.40	33.00	-15.60	1.04 V	315	83.40	-66.00

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

Modulation Type: 256QAM

LTE Band 2, Channel Bandwidth 1.4MHz

Mode	TX channel 18607, 18900, 19193							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	8.60	33.00	-24.40	3.97 H	13	74.87	-66.27
2	1880.00	9.10	33.00	-23.90	3.90 H	7	75.21	-66.11
3	1909.30	9.60	33.00	-23.40	3.87 H	14	75.57	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	16.50	33.00	-16.50	1.09 V	315	82.77	-66.27
2	1880.00	16.70	33.00	-16.30	1.08 V	319	82.81	-66.11
3	1909.30	16.50	33.00	-16.50	1.02 V	318	82.47	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 3MHz

Mode	TX channel 18615, 18900, 19185							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	9.40	33.00	-23.60	3.90 H	10	75.66	-66.26
2	1880.00	8.90	33.00	-24.10	3.96 H	8	75.01	-66.11
3	1908.50	8.20	33.00	-24.80	3.90 H	11	74.17	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	16.60	33.00	-16.40	1.09 V	321	82.86	-66.26
2	1880.00	16.50	33.00	-16.50	1.10 V	320	82.61	-66.11
3	1908.50	16.40	33.00	-16.60	1.09 V	316	82.37	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 5MHz

Mode	TX channel 18625, 18900, 19175							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	8.90	33.00	-24.10	3.91 H	11	75.16	-66.26
2	1880.00	8.80	33.00	-24.20	3.94 H	14	74.91	-66.11
3	1907.50	8.50	33.00	-24.50	3.87 H	13	74.47	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	16.70	33.00	-16.30	1.10 V	318	82.96	-66.26
2	1880.00	16.80	33.00	-16.20	1.10 V	316	82.91	-66.11
3	1907.50	16.60	33.00	-16.40	1.04 V	315	82.57	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 10MHz

Mode	TX channel 18650, 18900, 19150							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	8.60	33.00	-24.40	3.88 H	12	74.84	-66.24
2	1880.00	9.10	33.00	-23.90	3.96 H	7	75.21	-66.11
3	1905.00	9.10	33.00	-23.90	3.88 H	14	75.08	-65.98
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	16.40	33.00	-16.60	1.10 V	315	82.64	-66.24
2	1880.00	16.60	33.00	-16.40	1.01 V	320	82.71	-66.11
3	1905.00	16.70	33.00	-16.30	1.10 V	319	82.68	-65.98

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 15MHz

Mode	TX channel 18675, 18900, 19125							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	8.60	33.00	-24.40	3.89 H	11	74.83	-66.23
2	1880.00	8.60	33.00	-24.40	3.95 H	11	74.71	-66.11
3	1902.50	8.90	33.00	-24.10	3.91 H	13	74.89	-65.99
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	16.90	33.00	-16.10	1.10 V	318	83.13	-66.23
2	1880.00	16.80	33.00	-16.20	1.00 V	321	82.91	-66.11
3	1902.50	16.70	33.00	-16.30	1.03 V	317	82.69	-65.99

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 2, Channel Bandwidth 20MHz

Mode	TX channel 18675, 18900, 19125							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	8.80	33.00	-24.20	3.94 H	13	75.02	-66.22
2	1880.00	9.40	33.00	-23.60	3.92 H	9	75.51	-66.11
3	1900.00	9.00	33.00	-24.00	3.87 H	8	75.00	-66.00
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	17.00	33.00	-16.00	1.09 V	322	83.22	-66.22
2	1880.00	16.60	33.00	-16.40	1.02 V	320	82.71	-66.11
3	1900.00	16.40	33.00	-16.60	1.04 V	315	82.40	-66.00

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

Modulation Type: QPSK

LTE Band 25, Channel Bandwidth 1.4MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	13.58	33.00	-19.42	3.99 H	201	79.85	-66.27
2	1882.50	14.10	33.00	-18.90	4.00 H	204	80.19	-66.09
3	1914.30	14.20	33.00	-18.80	3.85 H	207	80.14	-65.94
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	20.80	33.00	-12.20	1.22 V	58	87.07	-66.27
2	1882.50	20.90	33.00	-12.10	1.17 V	59	86.99	-66.09
3	1914.30	21.40	33.00	-11.60	1.18 V	68	87.34	-65.94

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 3MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	13.20	33.00	-19.80	4.00 H	199	79.46	-66.26
2	1882.50	13.50	33.00	-19.50	3.92 H	202	79.59	-66.09
3	1913.50	13.50	33.00	-19.50	3.91 H	199	79.44	-65.94
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	20.40	33.00	-12.60	1.15 V	63	86.66	-66.26
2	1882.50	20.70	33.00	-12.30	1.20 V	58	86.79	-66.09
3	1913.50	20.90	33.00	-12.10	1.23 V	57	86.84	-65.94

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 5MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	13.60	33.00	-19.40	3.96 H	205	79.86	-66.26
2	1882.50	14.30	33.00	-18.70	3.99 H	206	80.39	-66.09
3	1912.50	14.20	33.00	-18.80	3.89 H	207	80.15	-65.95
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	20.40	33.00	-12.60	1.23 V	61	86.66	-66.26
2	1882.50	20.50	33.00	-12.50	1.18 V	57	86.59	-66.09
3	1912.50	20.40	33.00	-12.60	1.19 V	72	86.35	-65.95

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 10MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	13.50	33.00	-19.50	3.96 H	200	79.74	-66.24
2	1882.50	13.50	33.00	-19.50	3.99 H	201	79.59	-66.09
3	1910.00	13.10	33.00	-19.90	4.00 H	197	79.07	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	20.50	33.00	-12.50	1.20 V	61	86.74	-66.24
2	1882.50	20.50	33.00	-12.50	1.19 V	61	86.59	-66.09
3	1910.00	20.90	33.00	-12.10	1.17 V	59	86.87	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 15MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	12.90	33.00	-20.10	3.98 H	199	79.13	-66.23
2	1882.50	13.70	33.00	-19.30	3.92 H	204	79.79	-66.09
3	1907.50	13.50	33.00	-19.50	3.93 H	202	79.47	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	20.70	33.00	-12.30	1.24 V	59	86.93	-66.23
2	1882.50	20.60	33.00	-12.40	1.19 V	64	86.69	-66.09
3	1907.50	21.10	33.00	-11.90	1.15 V	58	87.07	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 20MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	13.90	33.00	-19.10	3.98 H	204	80.12	-66.22
2	1882.50	13.80	33.00	-19.20	4.00 H	203	79.89	-66.09
3	1905.00	14.30	33.00	-18.70	3.94 H	205	80.28	-65.98
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	20.90	33.00	-12.10	1.24 V	62	87.12	-66.22
2	1882.50	21.50	33.00	-11.50	1.17 V	55	87.59	-66.09
3	1905.00	20.80	33.00	-12.20	1.22 V	72	86.78	-65.98

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

Modulation Type: 16QAM

LTE Band 25, Channel Bandwidth 1.4MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	11.10	33.00	-21.90	3.92 H	204	77.37	-66.27
2	1882.50	11.60	33.00	-21.40	3.99 H	201	77.69	-66.09
3	1914.30	11.60	33.00	-21.40	3.95 H	201	77.54	-65.94
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	19.80	33.00	-13.20	1.22 V	58	86.07	-66.27
2	1882.50	19.90	33.00	-13.10	1.17 V	59	85.99	-66.09
3	1914.30	20.40	33.00	-12.60	1.18 V	68	86.34	-65.94

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 3MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	11.50	33.00	-21.50	3.90 H	202	77.76	-66.26
2	1882.50	11.50	33.00	-21.50	3.96 H	205	77.59	-66.09
3	1913.50	11.30	33.00	-21.70	3.91 H	204	77.24	-65.94
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	19.40	33.00	-13.60	1.15 V	63	85.66	-66.26
2	1882.50	19.70	33.00	-13.30	1.20 V	58	85.79	-66.09
3	1913.50	19.90	33.00	-13.10	1.23 V	57	85.84	-65.94

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 5MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	11.20	33.00	-21.80	3.98 H	201	77.46	-66.26
2	1882.50	11.30	33.00	-21.70	3.99 H	202	77.39	-66.09
3	1912.50	11.50	33.00	-21.50	4.00 H	206	77.45	-65.95
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	19.40	33.00	-13.60	1.23 V	61	85.66	-66.26
2	1882.50	19.50	33.00	-13.50	1.18 V	57	85.59	-66.09
3	1912.50	19.40	33.00	-13.60	1.19 V	72	85.35	-65.95

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 10MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	11.10	33.00	-21.90	3.92 H	204	77.34	-66.24
2	1882.50	11.20	33.00	-21.80	3.90 H	206	77.29	-66.09
3	1910.00	12.00	33.00	-21.00	3.93 H	202	77.97	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	19.50	33.00	-13.50	1.20 V	61	85.74	-66.24
2	1882.50	19.50	33.00	-13.50	1.19 V	61	85.59	-66.09
3	1910.00	19.90	33.00	-13.10	1.17 V	59	85.87	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 15MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	11.00	33.00	-22.00	4.00 H	202	77.23	-66.23
2	1882.50	11.30	33.00	-21.70	4.00 H	205	77.39	-66.09
3	1907.50	12.10	33.00	-20.90	3.94 H	208	78.07	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	19.70	33.00	-13.30	1.24 V	59	85.93	-66.23
2	1882.50	19.60	33.00	-13.40	1.19 V	64	85.69	-66.09
3	1907.50	20.10	33.00	-12.90	1.15 V	58	86.07	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 20MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	10.90	33.00	-22.10	3.90 H	205	77.12	-66.22
2	1882.50	11.70	33.00	-21.30	3.97 H	206	77.79	-66.09
3	1905.00	11.60	33.00	-21.40	3.95 H	204	77.58	-65.98
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	19.90	33.00	-13.10	1.24 V	62	86.12	-66.22
2	1882.50	20.50	33.00	-12.50	1.17 V	55	86.59	-66.09
3	1905.00	19.80	33.00	-13.20	1.22 V	72	85.78	-65.98

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

Modulation Type: 64QAM

LTE Band 25, Channel Bandwidth 1.4MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	10.60	33.00	-22.40	3.91 H	206	76.87	-66.27
2	1882.50	11.10	33.00	-21.90	3.97 H	201	77.19	-66.09
3	1914.30	11.20	33.00	-21.80	3.97 H	202	77.14	-65.94
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	19.30	33.00	-13.70	1.22 V	58	85.57	-66.27
2	1882.50	19.40	33.00	-13.60	1.17 V	59	85.49	-66.09
3	1914.30	20.00	33.00	-13.00	1.18 V	68	85.94	-65.94

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 3MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	11.10	33.00	-21.90	3.95 H	204	77.36	-66.26
2	1882.50	11.10	33.00	-21.90	3.92 H	208	77.19	-66.09
3	1913.50	10.90	33.00	-22.10	4.00 H	202	76.84	-65.94
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	18.80	33.00	-14.20	1.15 V	63	85.06	-66.26
2	1882.50	19.20	33.00	-13.80	1.20 V	58	85.29	-66.09
3	1913.50	19.30	33.00	-13.70	1.23 V	57	85.24	-65.94

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 5MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	10.80	33.00	-22.20	4.00 H	202	77.06	-66.26
2	1882.50	10.90	33.00	-22.10	3.92 H	202	76.99	-66.09
3	1912.50	11.10	33.00	-21.90	3.97 H	201	77.05	-65.95
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	18.90	33.00	-14.10	1.23 V	61	85.16	-66.26
2	1882.50	19.00	33.00	-14.00	1.18 V	57	85.09	-66.09
3	1912.50	19.00	33.00	-14.00	1.19 V	72	84.95	-65.95

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 10MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	10.60	33.00	-22.40	3.97 H	208	76.84	-66.24
2	1882.50	10.70	33.00	-22.30	3.90 H	203	76.79	-66.09
3	1910.00	11.60	33.00	-21.40	3.99 H	204	77.57	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	19.00	33.00	-14.00	1.20 V	61	85.24	-66.24
2	1882.50	18.90	33.00	-14.10	1.19 V	61	84.99	-66.09
3	1910.00	19.30	33.00	-13.70	1.17 V	59	85.27	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 15MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	10.60	33.00	-22.40	3.90 H	204	76.83	-66.23
2	1882.50	10.90	33.00	-22.10	3.93 H	201	76.99	-66.09
3	1907.50	11.50	33.00	-21.50	3.91 H	204	77.47	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	19.20	33.00	-13.80	1.24 V	59	85.43	-66.23
2	1882.50	19.10	33.00	-13.90	1.19 V	64	85.19	-66.09
3	1907.50	19.50	33.00	-13.50	1.15 V	58	85.47	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 20MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	10.50	33.00	-22.50	3.98 H	206	76.72	-66.22
2	1882.50	11.20	33.00	-21.80	3.97 H	204	77.29	-66.09
3	1905.00	11.10	33.00	-21.90	3.94 H	204	77.08	-65.98
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	19.40	33.00	-13.60	1.24 V	62	85.62	-66.22
2	1882.50	20.00	33.00	-13.00	1.17 V	55	86.09	-66.09
3	1905.00	19.30	33.00	-13.70	1.22 V	72	85.28	-65.98

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

Modulation Type: 256QAM

LTE Band 25, Channel Bandwidth 1.4MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	9.10	33.00	-23.90	4.00 H	206	75.37	-66.27
2	1882.50	9.70	33.00	-23.30	3.95 H	208	75.79	-66.09
3	1914.30	9.70	33.00	-23.30	3.98 H	204	75.64	-65.94
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	18.30	33.00	-14.70	1.22 V	58	84.57	-66.27
2	1882.50	18.40	33.00	-14.60	1.17 V	59	84.49	-66.09
3	1914.30	19.00	33.00	-14.00	1.18 V	68	84.94	-65.94

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 3MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	9.60	33.00	-23.40	3.97 H	204	75.86	-66.26
2	1882.50	9.70	33.00	-23.30	3.96 H	204	75.79	-66.09
3	1913.50	9.30	33.00	-23.70	3.92 H	201	75.24	-65.94
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	17.80	33.00	-15.20	1.15 V	63	84.06	-66.26
2	1882.50	18.20	33.00	-14.80	1.20 V	58	84.29	-66.09
3	1913.50	18.30	33.00	-14.70	1.23 V	57	84.24	-65.94

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 5MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	9.20	33.00	-23.80	3.93 H	208	75.46	-66.26
2	1882.50	9.40	33.00	-23.60	3.94 H	207	75.49	-66.09
3	1912.50	9.50	33.00	-23.50	3.91 H	205	75.45	-65.95
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	18.00	33.00	-15.00	1.23 V	61	84.26	-66.26
2	1882.50	18.00	33.00	-15.00	1.18 V	57	84.09	-66.09
3	1912.50	17.90	33.00	-15.10	1.19 V	72	83.85	-65.95

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 10MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	9.20	33.00	-23.80	3.91 H	203	75.44	-66.24
2	1882.50	9.30	33.00	-23.70	4.00 H	204	75.39	-66.09
3	1910.00	10.10	33.00	-22.90	3.95 H	201	76.07	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	18.00	33.00	-15.00	1.20 V	61	84.24	-66.24
2	1882.50	17.90	33.00	-15.10	1.19 V	61	83.99	-66.09
3	1910.00	18.30	33.00	-14.70	1.17 V	59	84.27	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 15MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	9.00	33.00	-24.00	3.97 H	204	75.23	-66.23
2	1882.50	9.50	33.00	-23.50	3.90 H	203	75.59	-66.09
3	1907.50	10.10	33.00	-22.90	3.99 H	203	76.07	-65.97
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	18.20	33.00	-14.80	1.24 V	59	84.43	-66.23
2	1882.50	18.10	33.00	-14.90	1.19 V	64	84.19	-66.09
3	1907.50	18.50	33.00	-14.50	1.15 V	58	84.47	-65.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 25, Channel Bandwidth 20MHz

Mode	TX channel 26047, 26365, 26683							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	9.00	33.00	-24.00	3.95 H	204	75.22	-66.22
2	1882.50	11.20	33.00	-21.80	3.97 H	204	77.29	-66.09
3	1905.00	9.50	33.00	-23.50	3.92 H	202	75.48	-65.98
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	18.40	33.00	-14.60	1.24 V	62	84.62	-66.22
2	1882.50	19.00	33.00	-14.00	1.17 V	55	85.09	-66.09
3	1905.00	18.30	33.00	-14.70	1.22 V	72	84.28	-65.98

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

4.2 Modulation Characteristics Measurement

4.2.1 Limits of Modulation Characteristics

N/A

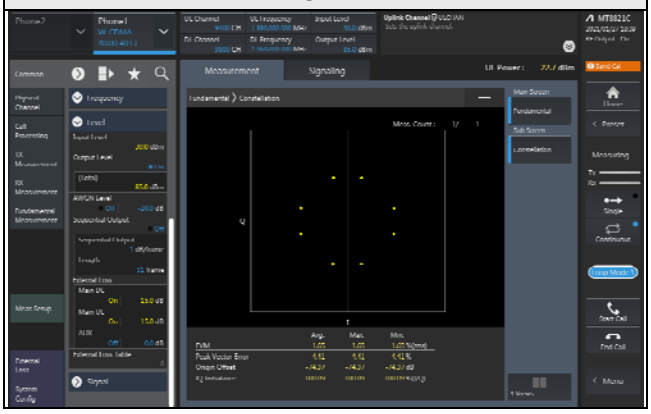
4.2.2 Test Procedure

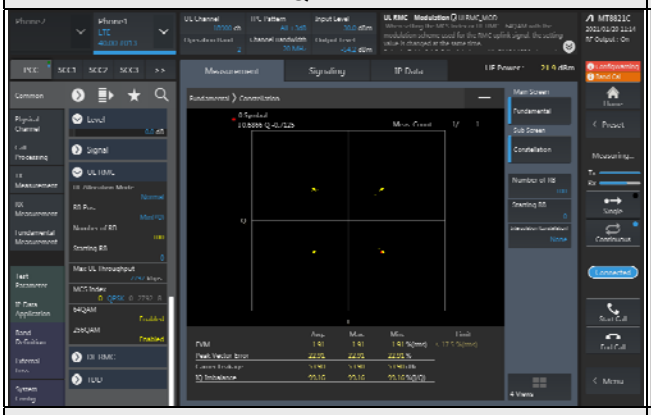
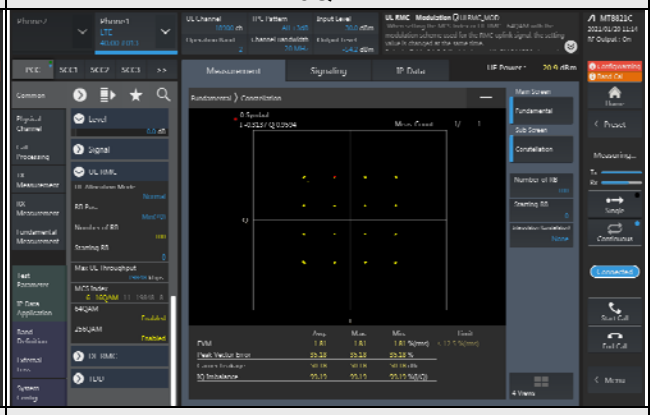
Connect the EUT to Communication Simulator via the antenna connector, The frequency band is set as EUT supported Modulation and Channels, the EUT output is matched with 50 ohm load, the waveform quality and constellation of the EUT was tested.

4.2.3 Test Setup

4.2.4 Test Results

WCDMA Band 2
Spectrum Plot of Measurement Value
Channel: 9400 / Frequency (MHz): 1880.0MHz
WCDMA



LTE Band 2	
Spectrum Plot of Measurement Value	
Channel: 18900 / Frequency (MHz): 1880.0MHz	
QPSK	16QAM
	
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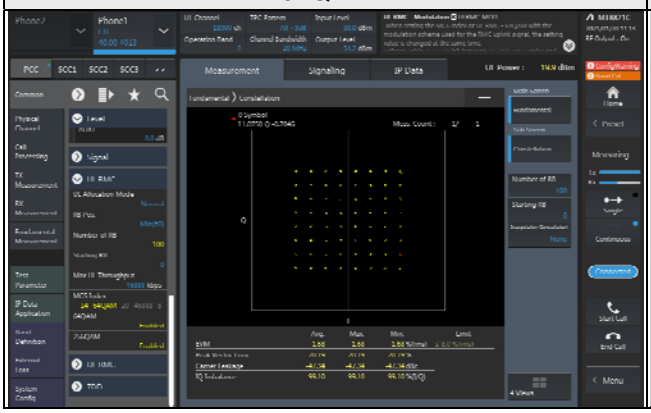
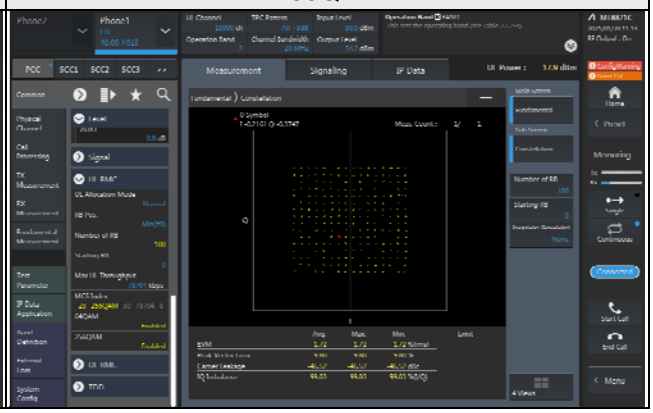
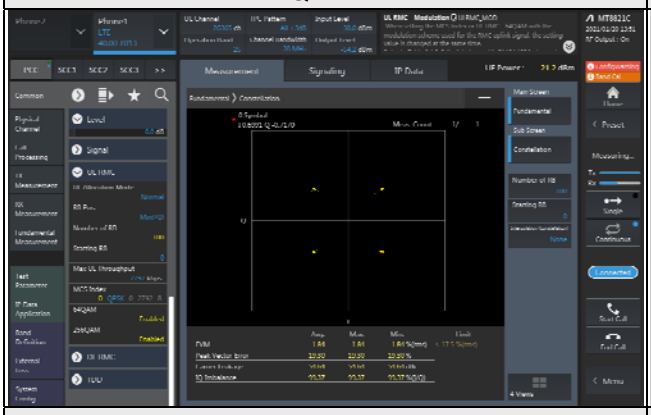
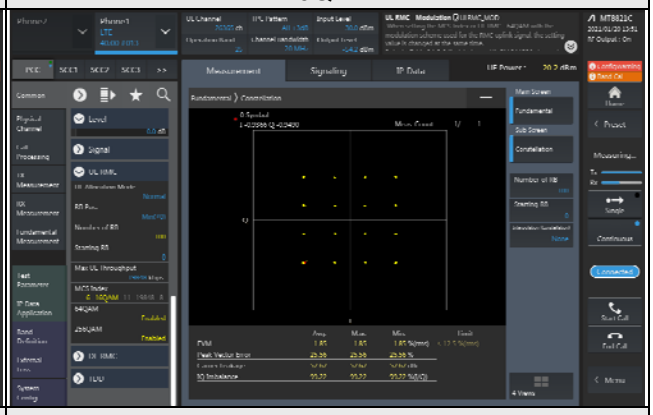
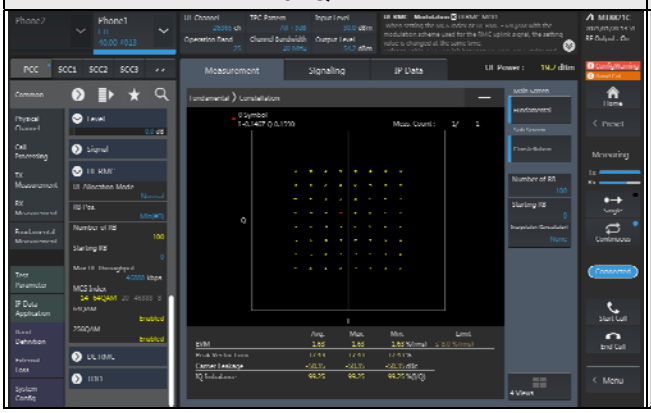
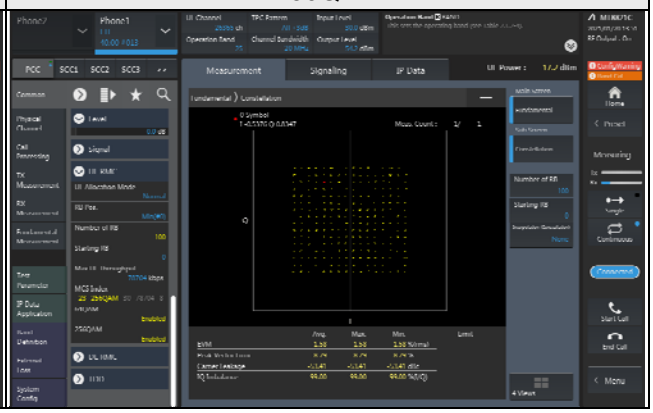
	

LTE Band 25	
Spectrum Plot of Measurement Value	
Channel: 26365 / Frequency (MHz): 1882.5MHz	
QPSK	16QAM
	
64QAM	256QAM
	

4.3 Frequency Stability Measurement

4.3.1 Limits of Frequency Stabiliity Measurement

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

4.3.2 Test Procedure

a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5 ℃ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

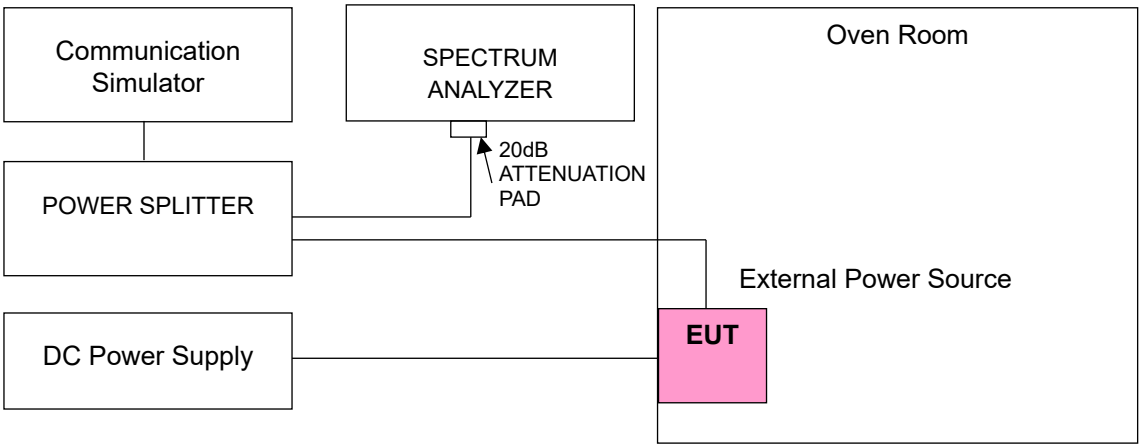
Note: The frequency error was recorded frequency error from the communication simulator.

4.3.3 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Radio Communication Analyzer Anritsu	MT8820C	6201010284	Dec. 28, 2020	Dec. 27, 2021
Temperature & Humidity Chamber TERCHY	HRM-120RF	931022	Dec. 24, 2020	Dec. 23, 2021
Digital Multimeter Fluke	87-III	70360742	Jun. 23, 2020	Jun. 22, 2021
DC Power Supply Topward	6306A	727263	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.3.4 Conducted Setup



4.3.5 Test Results

Frequency Error vs. Voltage

Voltage (Volts)	WCDMA Band 2			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	1852.400002	0.000810	1907.600004	0.002097
3.40	1852.400003	0.001727	1907.600002	0.001101
4.40	1852.400001	0.000540	1907.600003	0.001311

Note: The applicant defined the normal working voltage is from 3.40Vdc to 4.40Vdc.

Frequency Error vs. Temperature

Temp. (℃)	WCDMA Band 2			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1852.400003	0.001458	1907.600002	0.000839
-20	1852.400003	0.001620	1907.600002	0.000944
-10	1852.400003	0.001835	1907.600002	0.000891
0	1852.400002	0.001080	1907.600002	0.001101
10	1852.399996	-0.002105	1907.599996	-0.001887
20	1852.399998	-0.001350	1907.599999	-0.000629
30	1852.399999	-0.000756	1907.599997	-0.001678
40	1852.399998	-0.001188	1907.599996	-0.001992
50	1852.399997	-0.001889	1907.599997	-0.001782

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 2			
	Channel Bandwidth 1.4 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	1850.700001	0.000702	1909.300000	0.001362
3.40	1850.700003	0.001783	1909.300002	0.001048
4.40	1850.700002	0.000919	1909.300003	0.001676

Note: The applicant defined the normal working voltage is from 3.40Vdc to 4.40Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 2			
	Channel Bandwidth 1.4 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1850.700004	0.001999	1909.300002	0.000786
-20	1850.700004	0.001945	1909.300002	0.001100
-10	1850.700003	0.001567	1909.300003	0.001571
0	1850.700002	0.001027	1909.300001	0.000524
10	1850.699998	-0.001243	1909.300003	0.001467
20	1850.699996	-0.002107	1909.300004	0.001990
30	1850.699997	-0.001891	1909.300002	0.000838
40	1850.699998	-0.000865	1909.299998	-0.000838
50	1850.699999	-0.000540	1909.299998	-0.001205

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 2			
	Channel Bandwidth 3MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	1851.500002	0.000972	1908.500003	0.001362
3.40	1851.500001	0.000540	1908.500002	0.001048
4.40	1851.500001	0.000702	1908.500003	0.001677

Note: The applicant defined the normal working voltage is from 3.40Vdc to 4.40Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 2			
	Channel Bandwidth 3MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1851.500004	0.001998	1908.500003	0.001677
-20	1851.500003	0.001350	1908.500002	0.001205
-10	1851.500002	0.000810	1908.500002	0.001048
0	1851.500001	0.000702	1908.500004	0.001886
10	1851.499997	-0.001566	1908.500002	0.001153
20	1851.499997	-0.001620	1908.500004	0.001834
30	1851.499999	-0.000540	1908.500004	0.002043
40	1851.499998	-0.001242	1908.499998	-0.000943
50	1851.499998	-0.001296	1908.499999	-0.000734

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 2			
	Channel Bandwidth 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	1852.500001	0.000540	1907.500003	0.001363
3.40	1852.500002	0.001134	1907.500002	0.001048
4.40	1852.500003	0.001457	1907.500003	0.001678

Note: The applicant defined the normal working voltage is from 3.40Vdc to 4.40Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 2			
	Channel Bandwidth 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1852.500002	0.000864	1907.500003	0.001363
-20	1852.500003	0.001727	1907.500004	0.001835
-10	1852.500002	0.001188	1907.500004	0.001940
0	1852.500002	0.001296	1907.500003	0.001678
10	1852.499998	-0.001188	1907.500003	0.001311
20	1852.499997	-0.001835	1907.500002	0.000996
30	1852.499998	-0.001134	1907.500001	0.000682
40	1852.499998	-0.000918	1907.499997	-0.001730
50	1852.499998	-0.000972	1907.499998	-0.001258

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 2			
	Channel Bandwidth 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	1855.000002	0.001240	1905.000003	0.001365
3.40	1855.000001	0.000647	1905.000002	0.001050
4.40	1855.000002	0.001024	1905.000003	0.001680

Note: The applicant defined the normal working voltage is from 3.40Vdc to 4.40Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 2			
	Channel Bandwidth 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1855.000003	0.001348	1905.000004	0.001837
-20	1855.000001	0.000539	1905.000003	0.001785
-10	1855.000004	0.002102	1905.000001	0.000525
0	1855.000003	0.001348	1905.000002	0.000840
10	1854.999997	-0.001617	1905.000001	0.000630
20	1854.999996	-0.002102	1905.000004	0.001995
30	1854.999998	-0.001294	1905.000002	0.000945
40	1854.999997	-0.001563	1904.999997	-0.001732
50	1854.999998	-0.000916	1904.999999	-0.000630

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 2			
	Channel Bandwidth 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	1857.500001	0.000700	1902.500003	0.001367
3.40	1857.500002	0.001023	1902.500002	0.001051
4.40	1857.500001	0.000646	1902.500003	0.001682

Note: The applicant defined the normal working voltage is from 3.40Vdc to 4.40Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 2			
	Channel Bandwidth 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1857.500002	0.000969	1902.500001	0.000526
-20	1857.500003	0.001507	1902.500001	0.000631
-10	1857.500003	0.001777	1902.500004	0.002102
0	1857.500001	0.000538	1902.500004	0.001945
10	1857.499998	-0.001131	1902.500002	0.000946
20	1857.499998	-0.000915	1902.500002	0.001261
30	1857.499999	-0.000646	1902.500001	0.000631
40	1857.499996	-0.002100	1902.499997	-0.001629
50	1857.499997	-0.001723	1902.499999	-0.000736

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 2			
	Channel Bandwidth 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	1860.000002	0.000806	1900.000003	0.001368
3.40	1860.000002	0.001183	1900.000002	0.001053
4.40	1860.000001	0.000645	1900.000003	0.001684

Note: The applicant defined the normal working voltage is from 3.40Vdc to 4.40Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 2			
	Channel Bandwidth 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1860.000002	0.001075	1900.000003	0.001526
-20	1860.000003	0.001828	1900.000004	0.001895
-10	1860.000003	0.001398	1900.000003	0.001789
0	1860.000001	0.000645	1900.000004	0.002000
10	1859.999999	-0.000591	1900.000001	0.000737
20	1859.999997	-0.001559	1900.000002	0.001053
30	1859.999996	-0.002151	1900.000001	0.000632
40	1859.999997	-0.001613	1899.999998	-0.001000
50	1859.999998	-0.000860	1899.999998	-0.001158

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 25			
	Channel Bandwidth 1.4 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	1850.700002	0.001243	1914.300003	0.001358
3.40	1850.700002	0.001135	1914.300002	0.001045
4.40	1850.700002	0.001135	1914.300003	0.001672

Note: The applicant defined the normal working voltage is from 3.40Vdc to 4.40Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 25			
	Channel Bandwidth 1.4 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1850.700003	0.001459	1914.300002	0.001254
-20	1850.700003	0.001459	1914.300003	0.001619
-10	1850.700001	0.000702	1914.300002	0.000940
0	1850.700004	0.002107	1914.300003	0.001672
10	1850.699998	-0.001297	1914.300004	0.001985
20	1850.699999	-0.000594	1914.300001	0.000731
30	1850.699997	-0.001837	1914.300002	0.001254
40	1850.699998	-0.001297	1914.299998	-0.001254
50	1850.699999	-0.000540	1914.299999	-0.000679

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 25			
	Channel Bandwidth 3MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	1851.500001	0.000648	1913.500003	0.001359
3.40	1851.500003	0.001458	1913.500002	0.001045
4.40	1851.500002	0.000810	1913.500003	0.001672

Note: The applicant defined the normal working voltage is from 3.40Vdc to 4.40Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 25			
	Channel Bandwidth 3MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1851.500004	0.002106	1913.500004	0.001881
-20	1851.500002	0.001188	1913.500004	0.001881
-10	1851.500003	0.001620	1913.500004	0.002038
0	1851.500004	0.002106	1913.500003	0.001620
10	1851.499998	-0.001296	1913.500001	0.000627
20	1851.499997	-0.001890	1913.500003	0.001620
30	1851.499997	-0.001620	1913.500003	0.001307
40	1851.499997	-0.001782	1913.499998	-0.001307
50	1851.499999	-0.000756	1913.499997	-0.001777

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 25			
	Channel Bandwidth 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	1852.500003	0.001565	1912.500003	0.001359
3.40	1852.500004	0.001997	1912.500002	0.001046
4.40	1852.500003	0.001781	1912.500003	0.001673

Note: The applicant defined the normal working voltage is from 3.40Vdc to 4.40Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 25			
	Channel Bandwidth 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1852.500003	0.001350	1912.500003	0.001359
-20	1852.500001	0.000648	1912.500004	0.001830
-10	1852.500002	0.000972	1912.500002	0.001098
0	1852.500001	0.000594	1912.500003	0.001516
10	1852.499997	-0.001565	1912.500001	0.000732
20	1852.499999	-0.000702	1912.500003	0.001464
30	1852.499997	-0.001835	1912.500001	0.000627
40	1852.499999	-0.000648	1912.499996	-0.001882
50	1852.499997	-0.001835	1912.499997	-0.001830

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 25			
	Channel Bandwidth 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	1855.000004	0.002102	1910.000003	0.001361
3.40	1855.000003	0.001617	1910.000002	0.001047
4.40	1855.000002	0.001186	1910.000003	0.001675

Note: The applicant defined the normal working voltage is from 3.40Vdc to 4.40Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 25			
	Channel Bandwidth 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1855.000001	0.000647	1910.000004	0.001990
-20	1855.000003	0.001725	1910.000003	0.001571
-10	1855.000002	0.001024	1910.000004	0.001990
0	1855.000002	0.001132	1910.000004	0.002042
10	1854.999996	-0.002156	1910.000003	0.001309
20	1854.999998	-0.001294	1910.000003	0.001414
30	1854.999997	-0.001563	1910.000003	0.001361
40	1854.999997	-0.001887	1909.999998	-0.000942
50	1854.999998	-0.001132	1909.999999	-0.000576

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 25			
	Channel Bandwidth 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	1857.500003	0.001346	1907.500003	0.001363
3.40	1857.500003	0.001830	1907.500002	0.001048
4.40	1857.500003	0.001669	1907.500003	0.001678

Note: The applicant defined the normal working voltage is from 3.40Vdc to 4.40Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 25			
	Channel Bandwidth 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1857.500003	0.001454	1907.500003	0.001625
-20	1857.500001	0.000592	1907.500003	0.001678
-10	1857.500003	0.001669	1907.500002	0.000839
0	1857.500001	0.000700	1907.500002	0.000839
10	1857.499997	-0.001400	1907.500002	0.001258
20	1857.499997	-0.001507	1907.500002	0.001048
30	1857.499997	-0.001723	1907.500004	0.001887
40	1857.499997	-0.001669	1907.499996	-0.002045
50	1857.499997	-0.001669	1907.499998	-0.001258

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 25			
	Channel Bandwidth 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	1860.000003	0.001613	1905.000003	0.001365
3.40	1860.000003	0.001720	1905.000002	0.001050
4.40	1860.000002	0.000860	1905.000003	0.001680

Note: The applicant defined the normal working voltage is from 3.40Vdc to 4.40Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 25			
	Channel Bandwidth 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1860.000002	0.001237	1905.000003	0.001522
-20	1860.000002	0.000860	1905.000002	0.001207
-10	1860.000003	0.001344	1905.000002	0.001260
0	1860.000001	0.000538	1905.000003	0.001627
10	1859.999996	-0.002043	1905.000004	0.001890
20	1859.999996	-0.002097	1905.000004	0.001890
30	1859.999997	-0.001613	1905.000003	0.001365
40	1859.999998	-0.001129	1904.999999	-0.000735
50	1859.999997	-0.001720	1904.999997	-0.001837

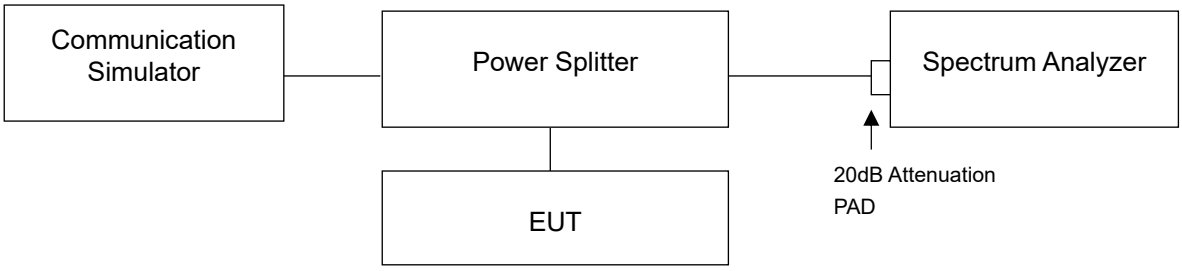
4.4 Occupied Bandwidth Measurement

4.4.1 Test Procedure

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Measurement method, please refer to section 5.4.4 of ANSI C63.26. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

For the 26dBc bandwidth measurement method, please refer to section 5.4.3 of ANSI C63.26.

4.4.2 Test Setup



4.4.3 Test Result

Occupied Bandwidth

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
		WCDMA
9262	1852.4	4.15
9400	1880.0	4.16
9538	1907.6	4.15

Spectrum Plot of Worst Value
WCDMA

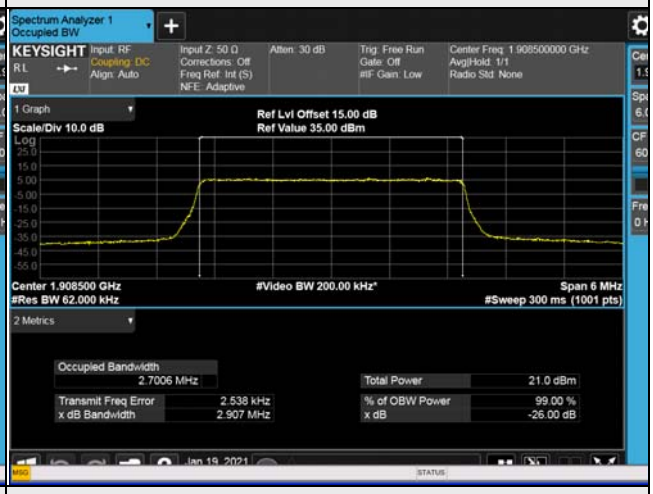
LTE Band 2, Channel Bandwidth 1.4MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
18607	1850.7	1.09	1.09	1.09	1.09
18900	1880.0	1.09	1.09	1.09	1.09
19193	1909.3	1.09	1.09	1.09	1.09
LTE Band 2, Channel Bandwidth 3MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
18615	1851.5	2.70	2.70	2.70	2.70
18900	1880.0	2.70	2.70	2.70	2.69
19185	1908.5	2.70	2.70	2.70	2.70
LTE Band 2, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
18625	1852.5	4.49	4.49	4.49	4.49
18900	1880.0	4.49	4.49	4.49	4.49
19175	1907.5	4.48	4.49	4.49	4.49
LTE Band 2, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
18650	1855.0	8.97	8.95	8.95	8.95
18900	1880.0	8.97	8.96	8.96	8.95
19150	1905.0	8.97	8.95	8.95	8.95
LTE Band 2, Channel Bandwidth 15MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
18675	1857.5	13.44	13.44	13.44	13.44
18900	1880.0	13.45	13.45	13.45	13.45
19125	1902.5	13.44	13.44	13.43	13.43

LTE Band 2, Channel Bandwidth 20MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
18700	1860.0	17.91	17.92	17.92	17.92
18900	1880.0	17.91	17.93	17.93	17.93
19100	1900.0	17.90	17.92	17.91	17.91

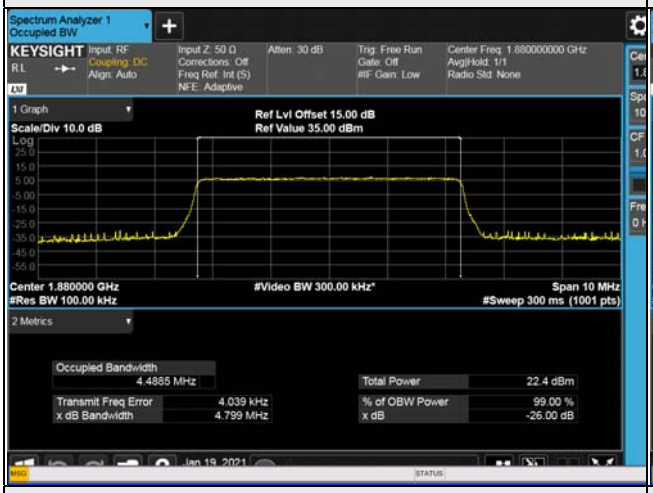
Spectrum Plot of Worst Value

1.4MHz / 64QAM

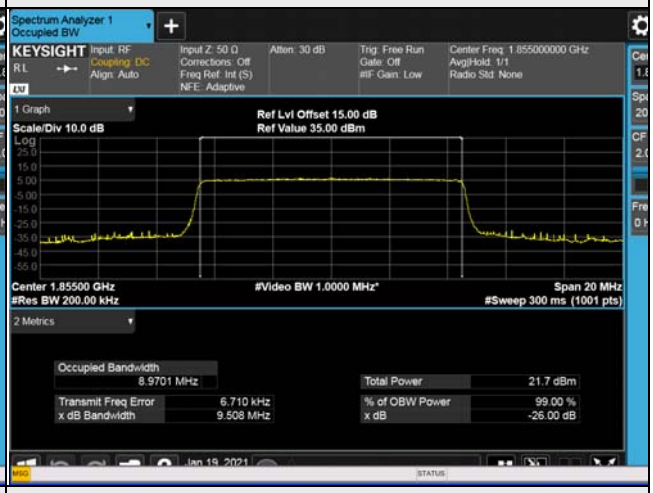
3MHz / 16QAM



5MHz / QPSK



10MHz / QPSK



15MHz / QPSK

20MHz / 64QAM

LTE Band 25, Channel Bandwidth 1.4MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
26047	1850.7	1.09	1.09	1.09	1.09
26365	1882.5	1.09	1.09	1.09	1.09
26683	1914.3	1.09	1.09	1.09	1.08
LTE Band 25, Channel Bandwidth 3MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
26055	1851.5	2.70	2.69	2.70	2.69
26365	1882.5	2.70	2.70	2.69	2.70
26675	1913.5	2.70	2.69	2.70	2.70
LTE Band 25, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
26065	1852.5	4.49	4.49	4.49	4.49
26365	1882.5	4.49	4.49	4.49	4.49
26665	1912.5	4.49	4.49	4.49	4.49
LTE Band 25, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
26090	1855.0	8.95	8.96	8.96	8.95
26365	1882.5	8.95	8.96	8.96	8.95
26640	1910.0	8.96	8.96	8.95	8.95
LTE Band 25, Channel Bandwidth 15MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
26115	1857.5	13.45	13.44	13.43	13.44
26365	1882.5	13.45	13.44	13.44	13.44
26615	1907.5	13.45	13.43	13.43	13.44

LTE Band 25, Channel Bandwidth 20MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
26140	1860.0	17.90	17.91	17.92	17.91
26365	1882.5	17.91	17.93	17.93	17.92
26590	1905.0	17.90	17.92	17.91	17.91

Spectrum Plot of Worst Value

1.4MHz / 64QAM

3MHz / QPSK

5MHz / 64QAM

10MHz / 16QAM

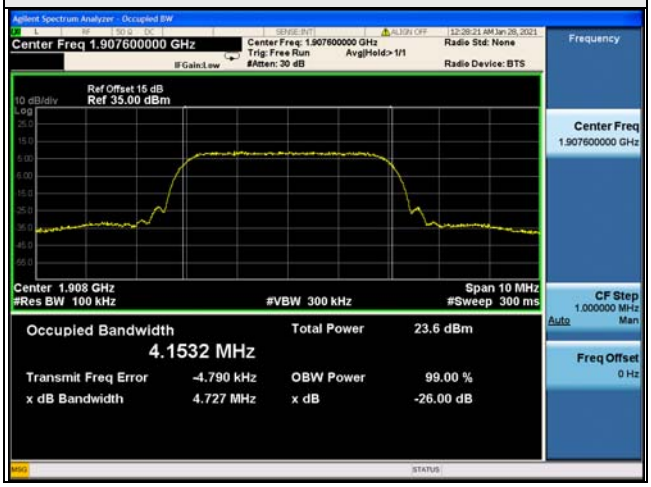
15MHz / QPSK

20MHz / 64QAM

26dB Bandwidth

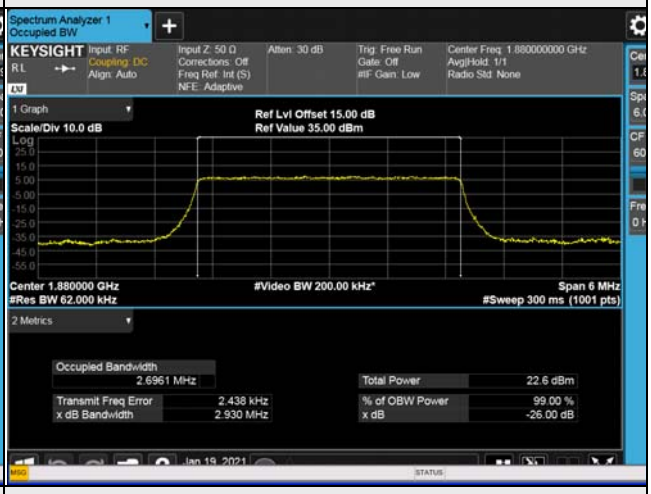
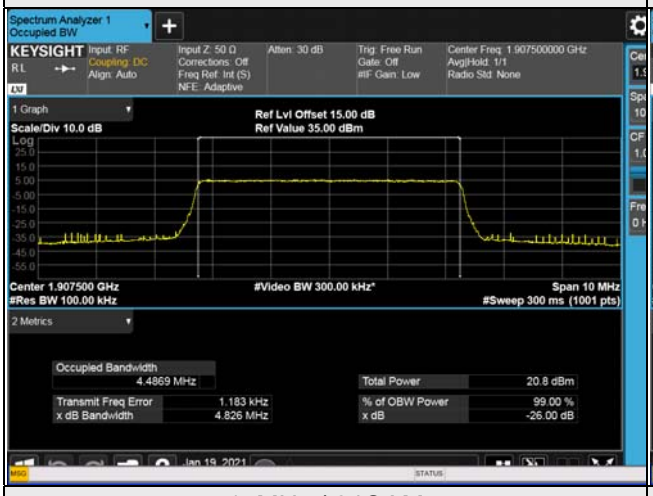
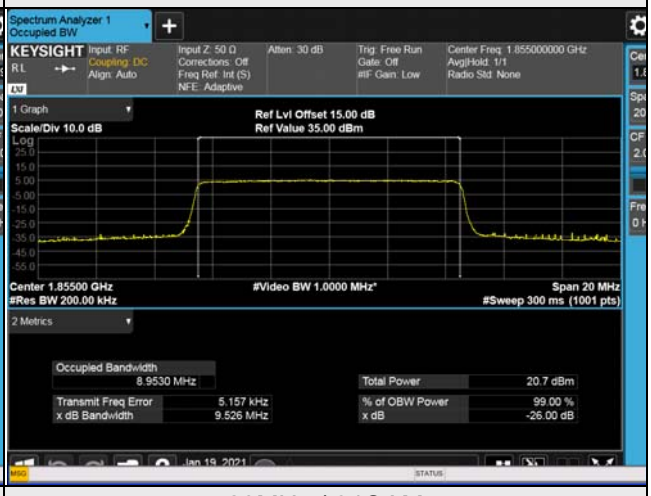
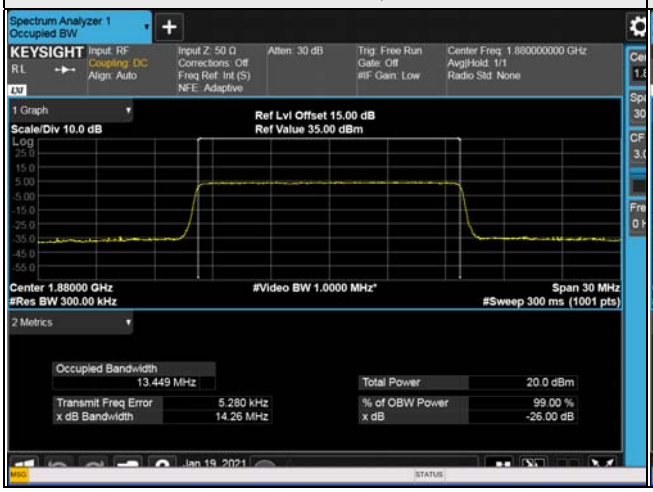
Channel	Frequency (MHz)	26dB Bandwidth (MHz)
		WCDMA
9262	1852.4	4.72
9400	1880.0	4.73
9538	1907.6	4.73

Spectrum Plot of Worst Value
WCDMA



LTE Band 2, Channel Bandwidth 1.4MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
18607	1850.7	1.22	1.22	1.22	1.21
18900	1880.0	1.22	1.21	1.22	1.21
19193	1909.3	1.21	1.21	1.22	1.21
LTE Band 2, Channel Bandwidth 3MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
18615	1851.5	2.92	2.90	2.91	2.93
18900	1880.0	2.93	2.91	2.90	2.92
19185	1908.5	2.92	2.91	2.90	2.91
LTE Band 2, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
18625	1852.5	4.82	4.81	4.80	4.81
18900	1880.0	4.80	4.80	4.79	4.81
19175	1907.5	4.79	4.83	4.80	4.81
LTE Band 2, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
18650	1855.0	9.51	9.53	9.50	9.50
18900	1880.0	9.52	9.51	9.51	9.50
19150	1905.0	9.50	9.51	9.49	9.51
LTE Band 2, Channel Bandwidth 15MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
18675	1857.5	14.23	14.23	14.25	14.25
18900	1880.0	14.25	14.23	14.26	14.25
19125	1902.5	14.22	14.24	14.23	14.24

LTE Band 2, Channel Bandwidth 20MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
18700	1860.0	19.01	19.02	19.02	19.02
18900	1880.0	19.03	19.02	19.03	19.02
19100	1900.0	19.01	19.00	19.01	19.00

Spectrum Plot of Worst Value	
1.4MHz / 64QAM	3MHz / QPSK
	
5MHz / 16QAM	10MHz / 16QAM
	
15MHz / 64QAM	20MHz / 64QAM
	

LTE Band 25, Channel Bandwidth 1.4MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
26047	1850.7	1.21	1.22	1.22	1.21
26365	1882.5	1.21	1.21	1.21	1.22
26683	1914.3	1.21	1.21	1.22	1.21
LTE Band 25, Channel Bandwidth 3MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
26055	1851.5	2.91	2.93	2.91	2.93
26365	1882.5	2.91	2.92	2.89	2.91
26675	1913.5	2.92	2.93	2.91	2.91
LTE Band 25, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
26065	1852.5	4.79	4.80	4.84	4.82
26365	1882.5	4.81	4.80	4.81	4.81
26665	1912.5	4.79	4.80	4.82	4.81
LTE Band 25, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
26090	1855.0	9.49	9.50	9.50	9.50
26365	1882.5	9.50	9.50	9.51	9.50
26640	1910.0	9.48	9.49	9.51	9.49
LTE Band 25, Channel Bandwidth 15MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
26115	1857.5	14.26	14.24	14.23	14.23
26365	1882.5	14.25	14.25	14.25	14.21
26615	1907.5	14.25	14.24	14.22	14.21

LTE Band 25, Channel Bandwidth 20MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
26140	1860.0	19.01	19.02	19.03	19.00
26365	1882.5	19.01	19.00	19.02	19.00
26590	1905.0	19.02	19.01	19.01	19.00

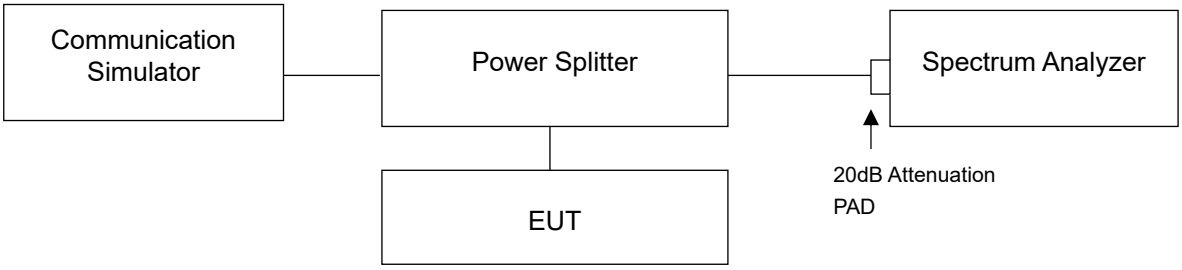
Spectrum Plot of Worst Value	
1.4MHz / 64QAM	3MHz / 16QAM
5MHz / 64QAM	10MHz / 64QAM
15MHz / QPSK	20MHz / 64QAM

4.5 Band Edge Measurement

4.5.1 Limits of Band Edge Measurement

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. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

4.5.2 Test Setup

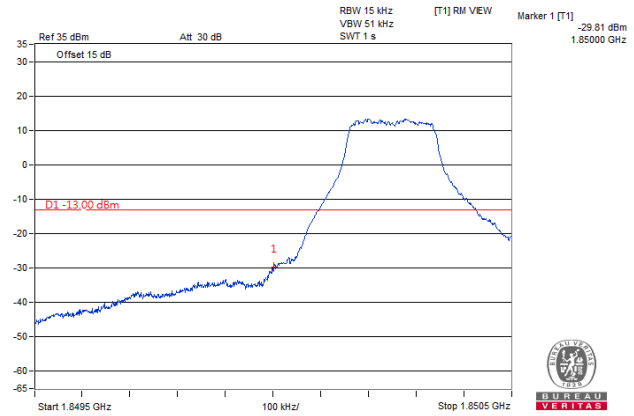
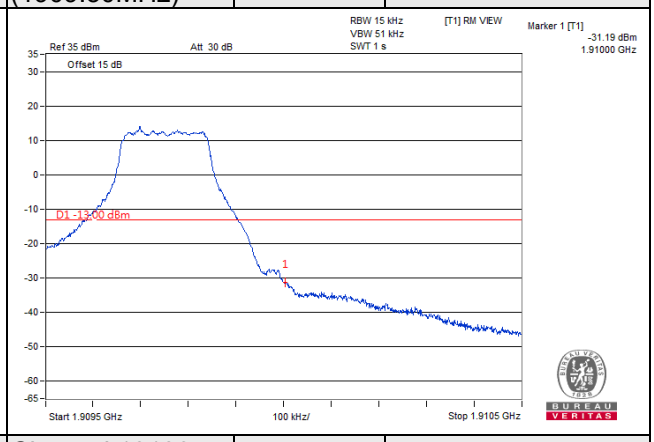
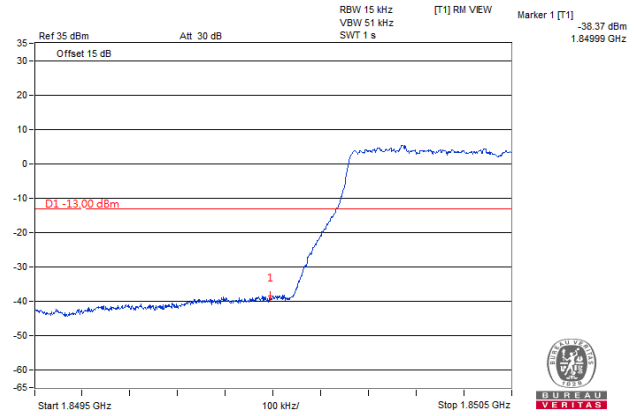
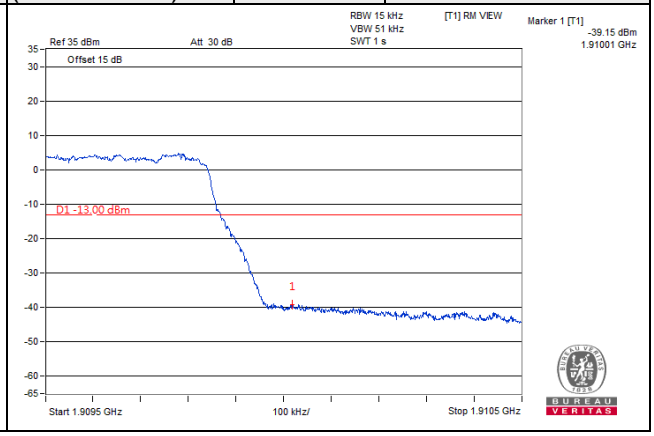


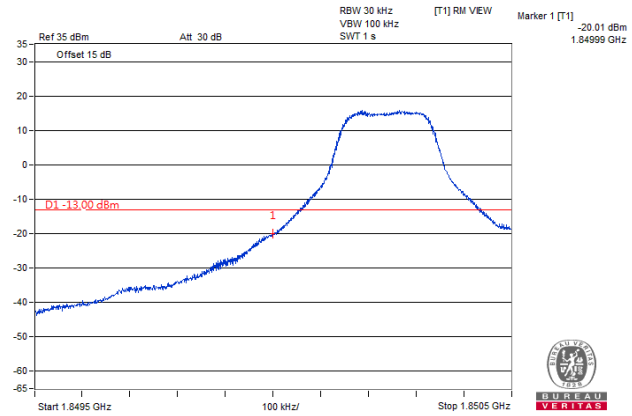
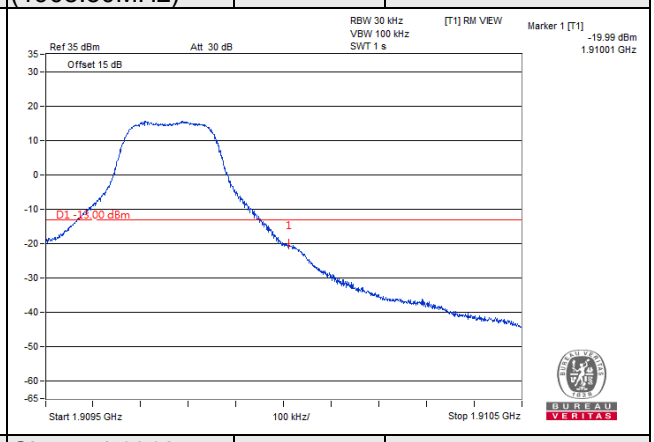
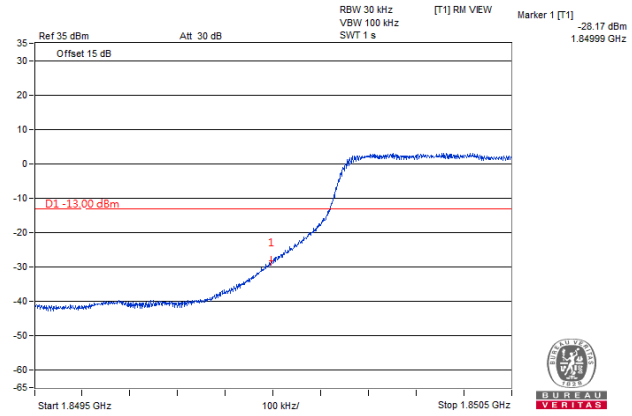
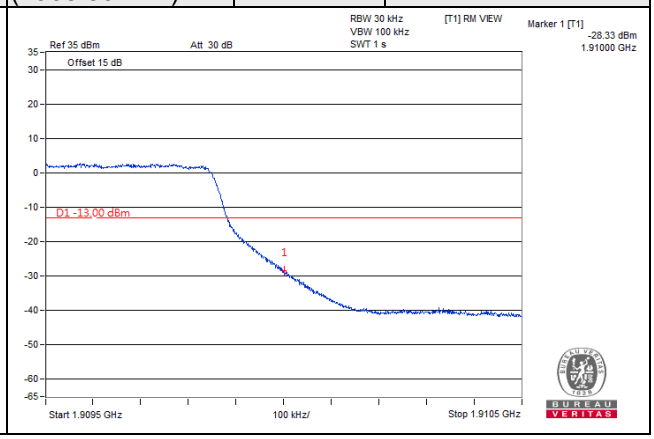
4.5.3 Test Procedures

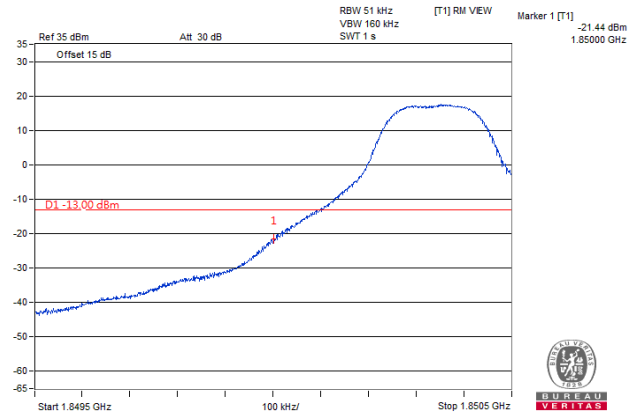
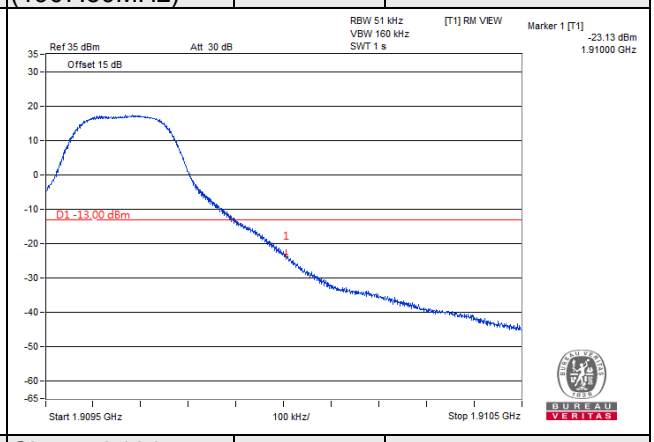
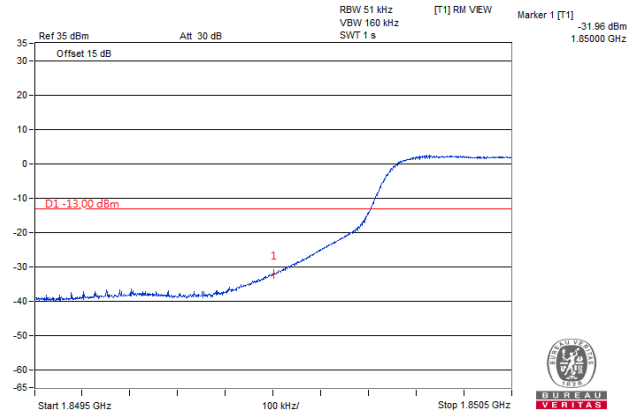
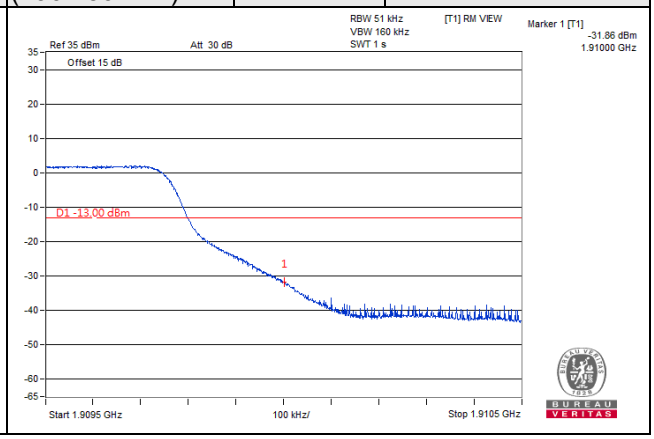
a. All measurements were done at low and high operational frequency range.
b. The center frequency of spectrum is the band edge frequency and span is 10MHz. RB of the spectrum is 51kHz and VB of the spectrum is 160kHz (WCDMA).
c. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 15kHz and VB of the spectrum is 51kHz (LTE Channel Bandwidth 1.4MHz).
d. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 30kHz and VB of the spectrum is 100kHz (LTE Channel Bandwidth 3MHz).
e. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 51kHz and VB of the spectrum is 160kHz (LTE Channel Bandwidth 5MHz).
f. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (LTE Channel Bandwidth 10MHz).
g. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 150kHz and VB of the spectrum is 470kHz (LTE Channel Bandwidth 15MHz).
h. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 200kHz and VB of the spectrum is 1MHz (LTE Channel Bandwidth 20MHz).
i. Record the max trace plot into the test report.

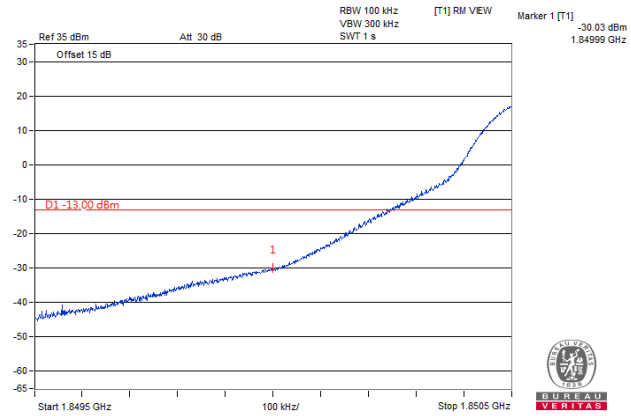
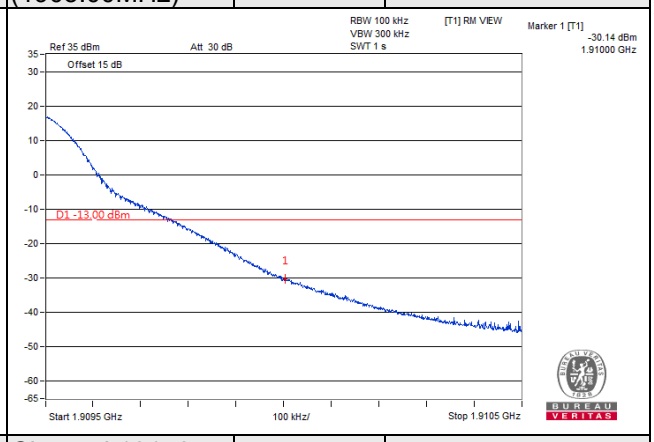
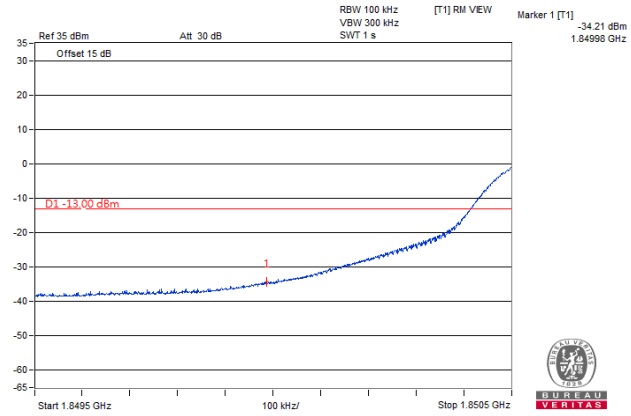
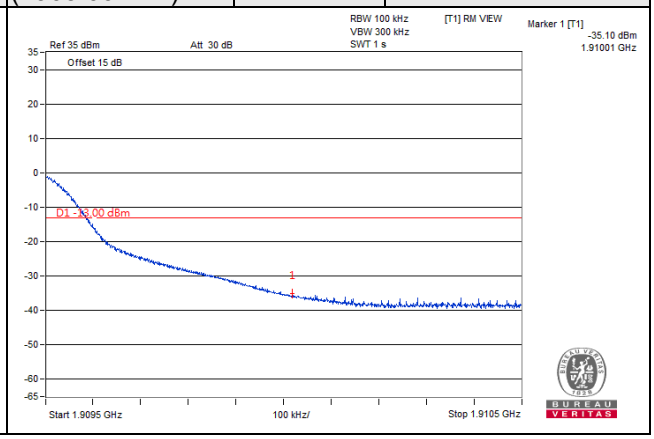
4.5.4 Test Results

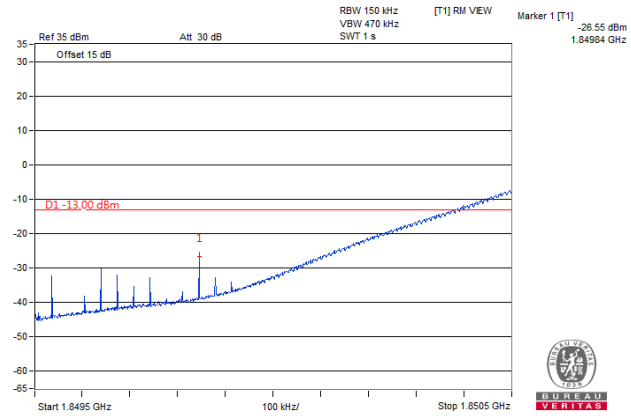
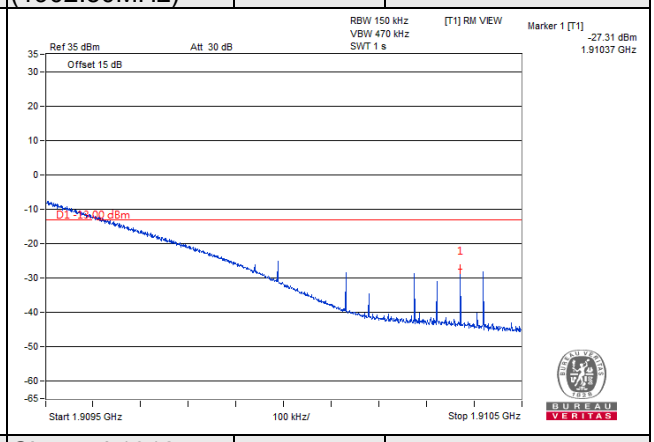
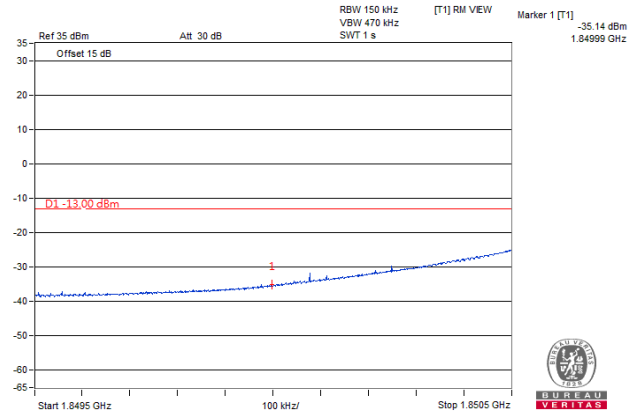
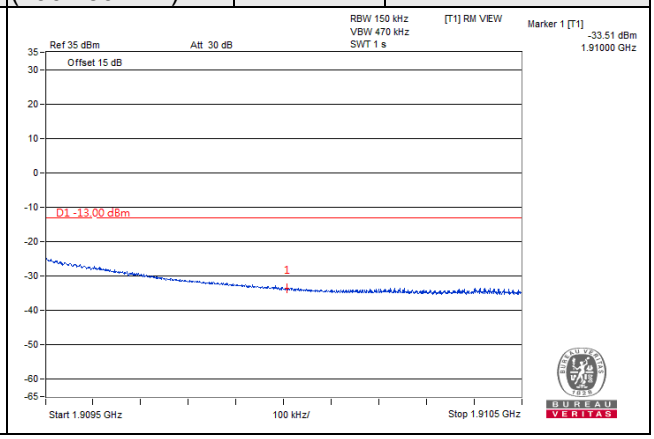
WCDMA			
Channel	9262 (1852.4MHz)	Channel	9538 (1907.6MHz)

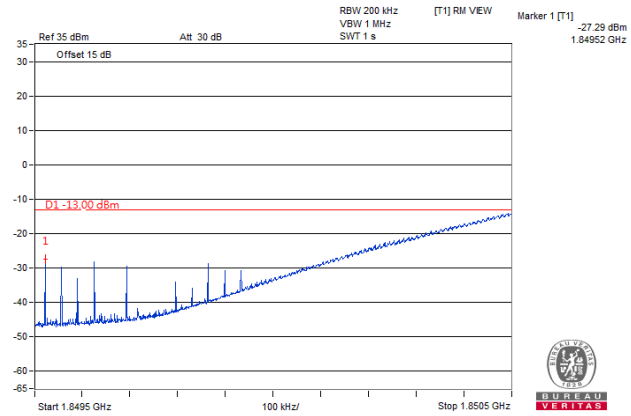
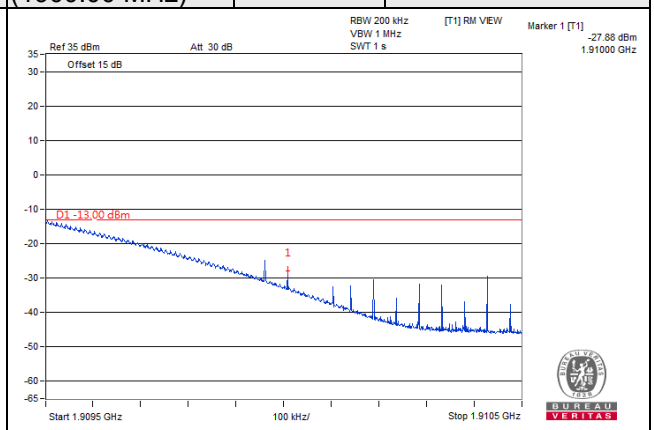
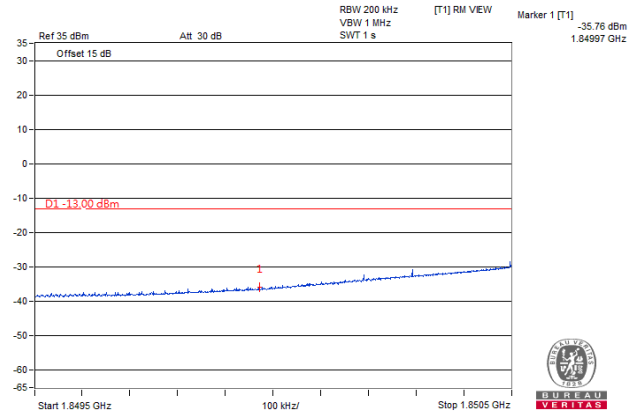
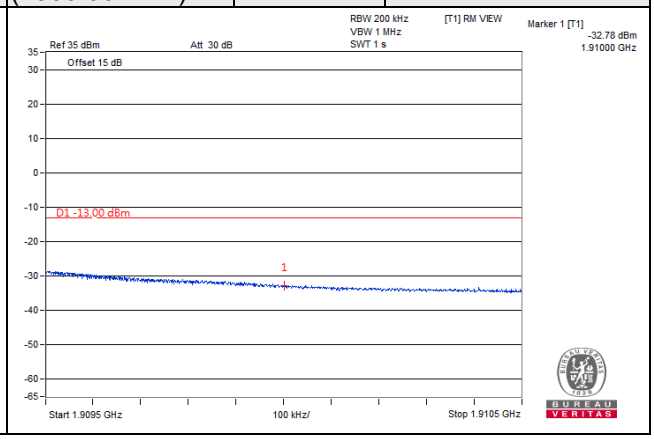
LTE Band 2, Channel Bandwidth 1.4MHz					
Channel 18607 (1850.70MHz)	QPSK	1 RB / 0 RB Offset	Channel 19193 (1909.30MHz)	QPSK	1 RB / 5 RB Offset
					
Channel 18607 (1850.70MHz)	QPSK	6 RB / 0 RB Offset	Channel 19193 (1909.30MHz)	QPSK	6 RB / 0 RB Offset
					

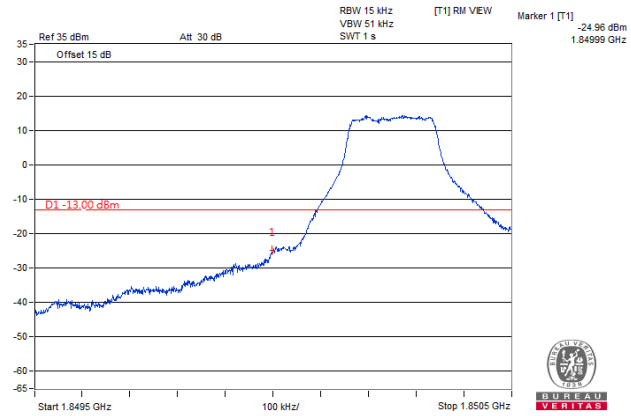
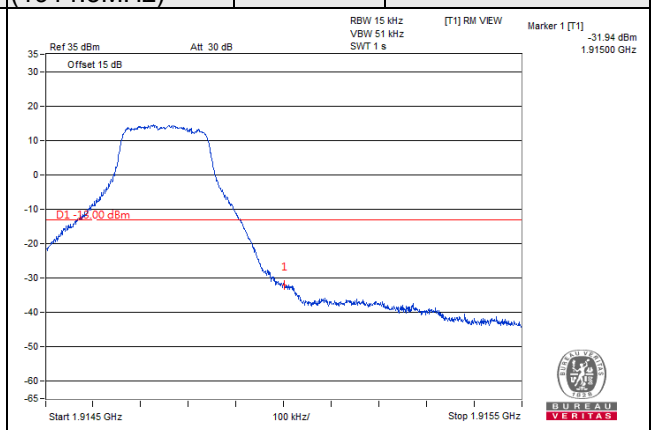
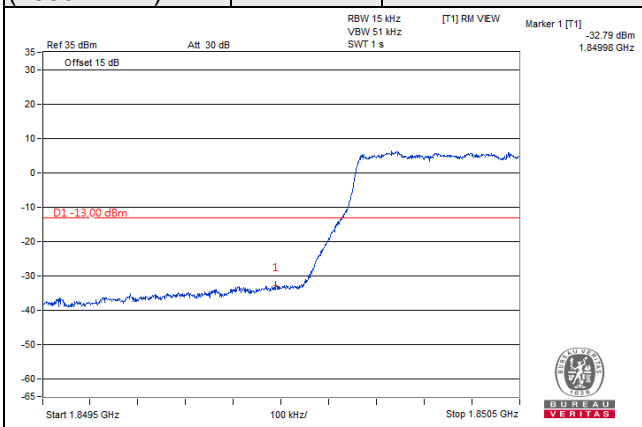
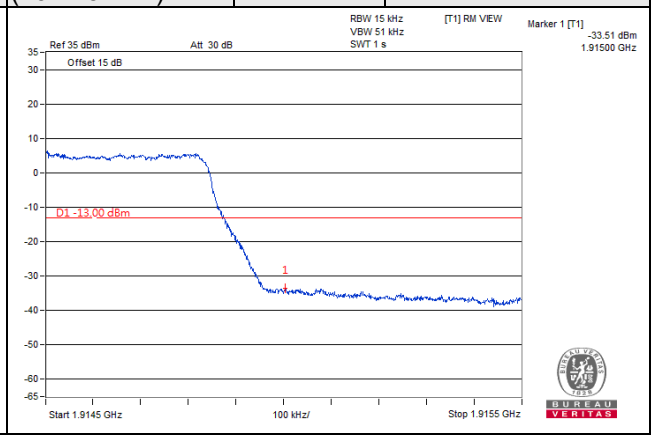
LTE Band 2, Channel Bandwidth 3MHz					
Channel 18615 (1851.50MHz)	QPSK	1 RB / 0 RB Offset	Channel 19185 (1908.50MHz)	QPSK	1 RB / 14 RB Offset
					
Channel 18615 (1851.50MHz)	QPSK	15 RB / 0 RB Offset	Channel 19185 (1908.50MHz)	QPSK	15 RB / 0 RB Offset
					

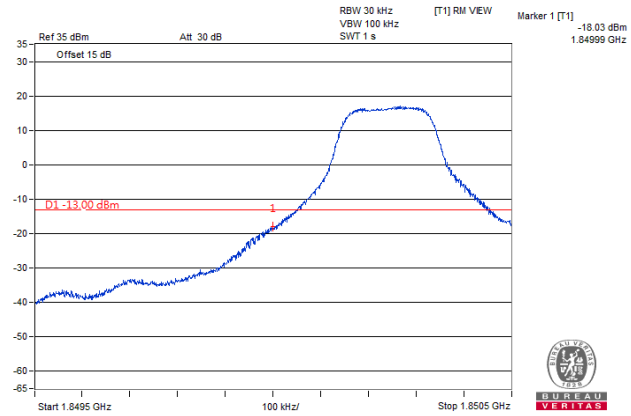
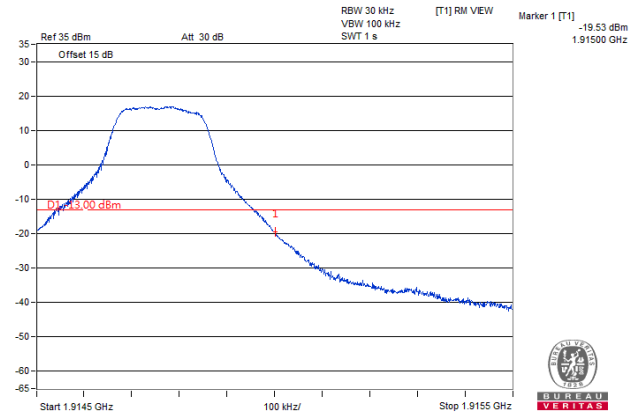
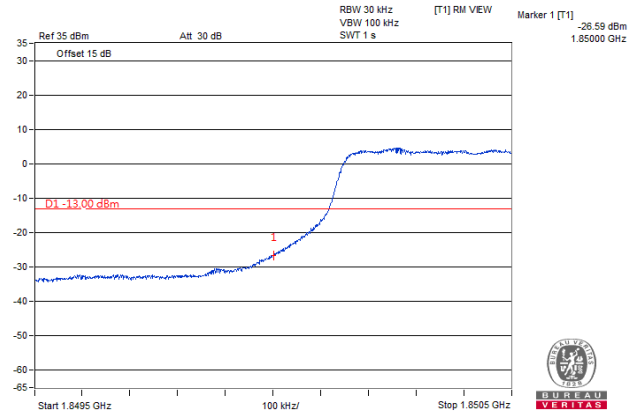
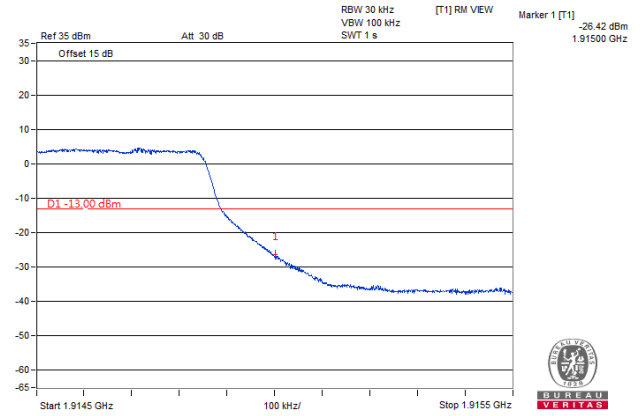
LTE Band 2, Channel Bandwidth 5MHz					
Channel 18625 (1852.50MHz)	QPSK	1 RB / 0 RB Offset	Channel 19175 (1907.50MHz)	QPSK	1 RB / 24 RB Offset
					
Channel 18625 (1852.50MHz)	QPSK	25 RB / 0 RB Offset	Channel 19175 (1907.50MHz)	QPSK	25 RB / 0 RB Offset
					

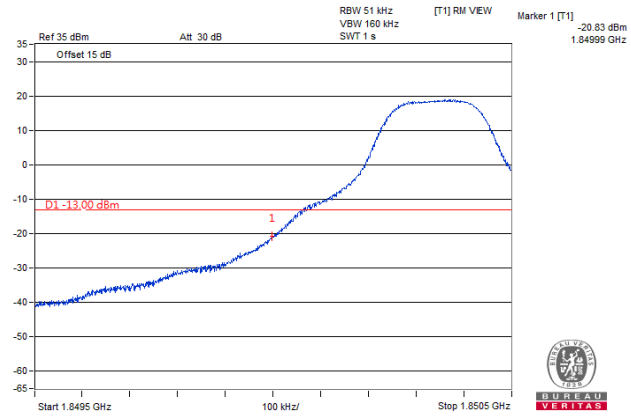
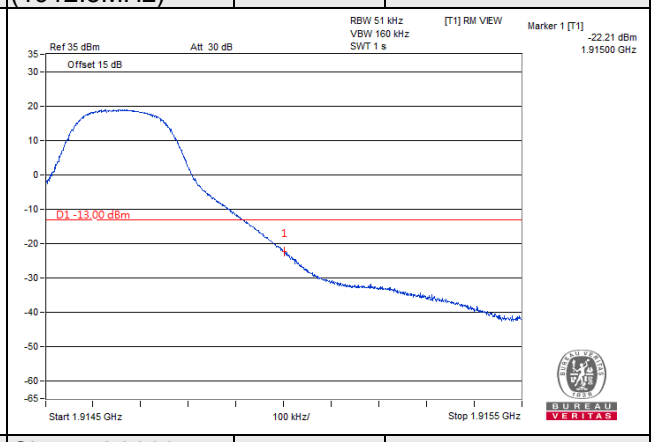
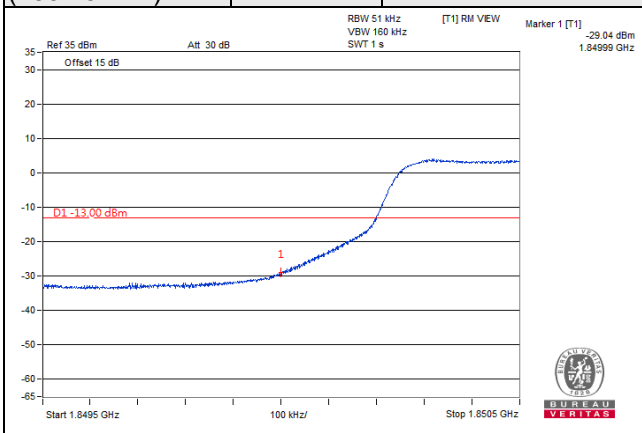
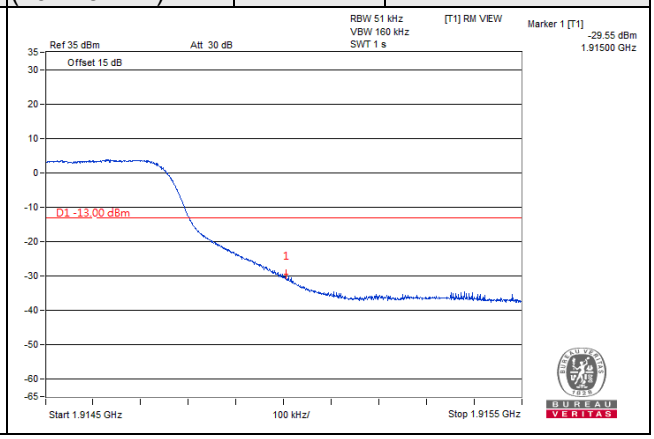
LTE Band 2, Channel Bandwidth 10MHz					
Channel 18650 (1855.00MHz)	QPSK	1 RB / 0 RB Offset	Channel 19150 (1905.00MHz)	QPSK	1 RB / 49 RB Offset
					
Channel 18650 (1855.00MHz)	QPSK	50 RB / 0 RB Offset	Channel 19150 (1905.00MHz)	QPSK	50 RB / 0 RB Offset
					

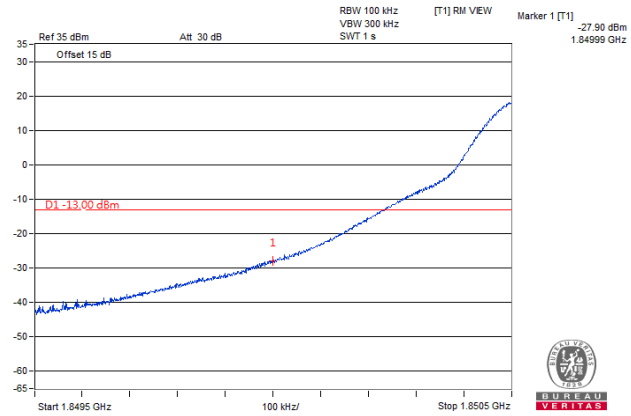
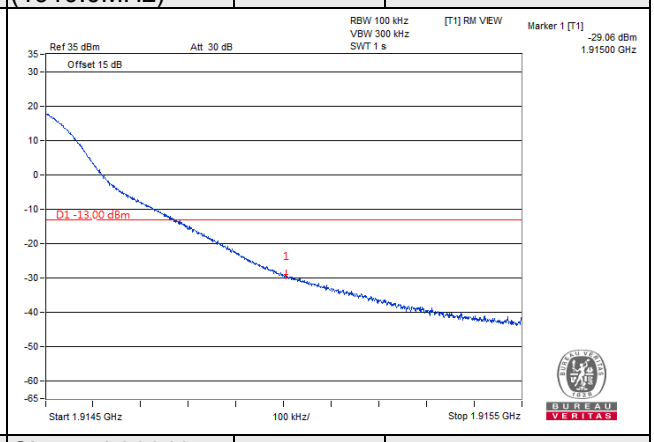
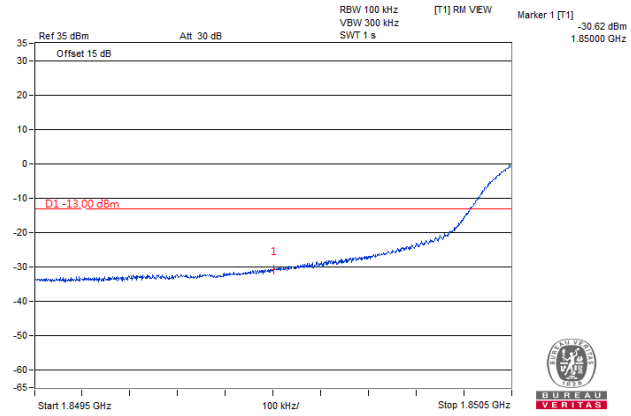
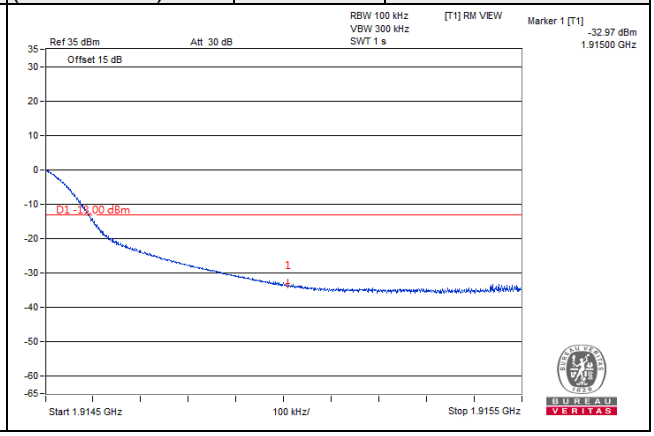
LTE Band 2, Channel Bandwidth 15MHz					
Channel 18675 (1857.50MHz)	QPSK	1 RB / 0 RB Offset	Channel 19125 (1902.50MHz)	QPSK	1 RB / 74 RB Offset
					
Channel 18675 (1857.50MHz)	QPSK	75 RB / 0 RB Offset	Channel 19125 (1902.50MHz)	QPSK	75 RB / 0 RB Offset
					

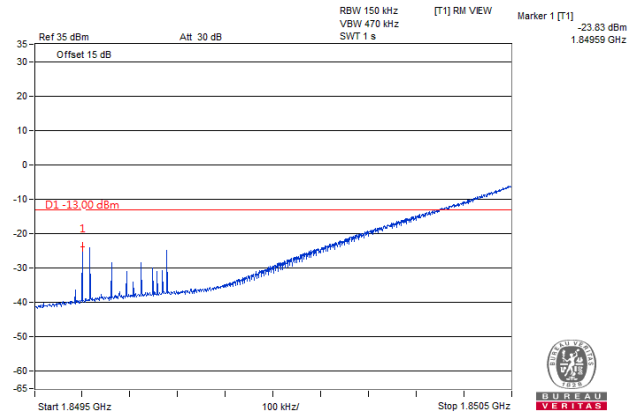
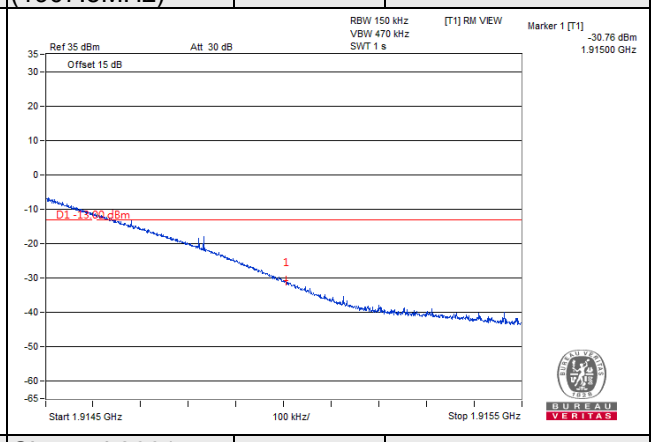
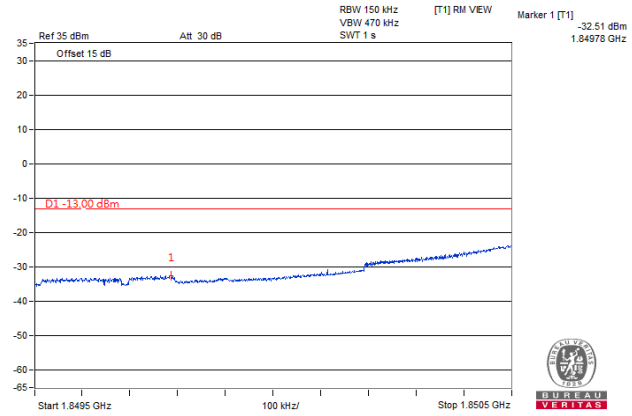
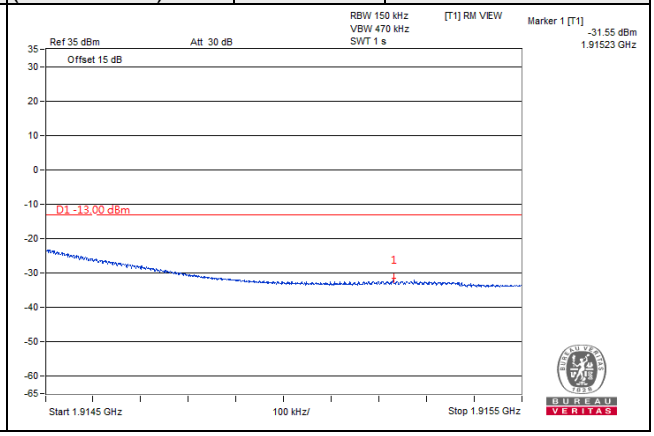
LTE Band 2, Channel Bandwidth 20MHz					
Channel 18700 (1860.00MHz)	QPSK	1 RB / 0 RB Offset	Channel 19100 (1900.00 MHz)	QPSK	1 RB / 99 RB Offset
					
Channel 18700 (1860.00MHz)	QPSK	100 RB / 0 RB Offset	Channel 19100 (1900.00 MHz)	QPSK	100 RB / 0 RB Offset
					

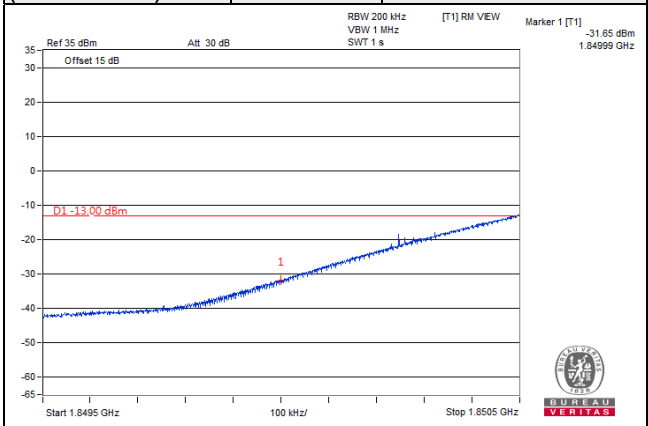
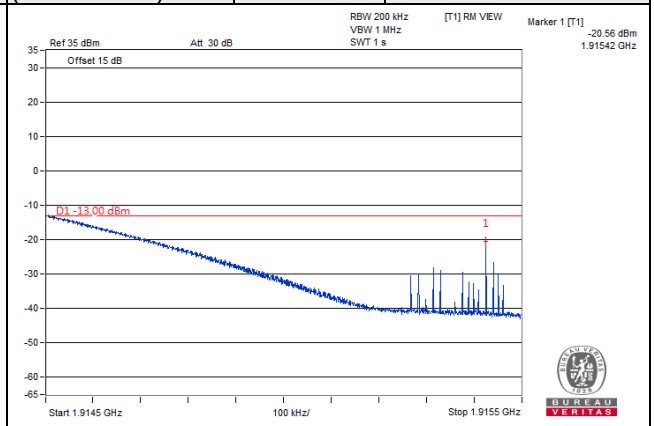
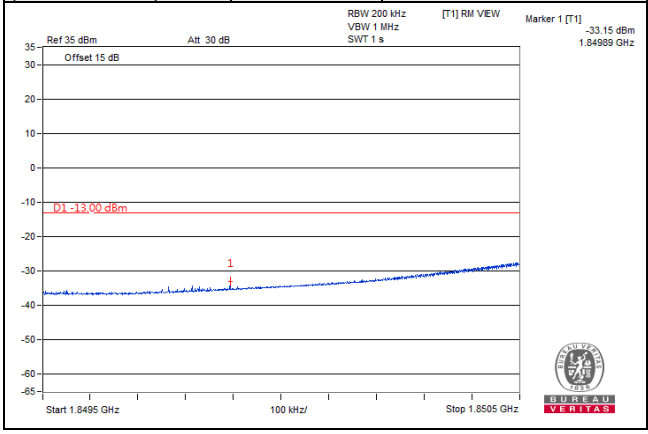
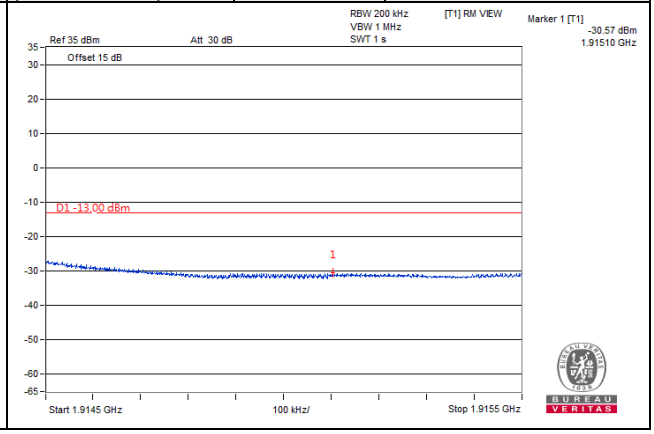
LTE Band 25, Channel Bandwidth 1.4MHz					
Channel 26047 (1850.7MHz)	QPSK	1 RB / 0 RB Offset	Channel 26683 (1914.3MHz)	QPSK	1 RB / 5 RB Offset
					
Channel 26047 (1850.7MHz)	QPSK	6 RB / 0 RB Offset	Channel 26683 (1914.3MHz)	QPSK	6 RB / 0 RB Offset
					

LTE Band 25, Channel Bandwidth 3MHz					
Channel 26055 (1851.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 26675 (1913.5MHz)	QPSK	1 RB / 14 RB Offset
					
Channel 26055 (1851.5MHz)	QPSK	15 RB / 0 RB Offset	Channel 26675 (1913.5MHz)	QPSK	15 RB / 0 RB Offset
					

LTE Band 25, Channel Bandwidth 5MHz					
Channel 26065 (1852.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 26665 (1912.5MHz)	QPSK	1 RB / 24 RB Offset
					
Channel 26065 (1852.5MHz)	QPSK	25 RB / 0 RB Offset	Channel 26665 (1912.5MHz)	QPSK	25 RB / 0 RB Offset
					

LTE Band 25, Channel Bandwidth 10MHz					
Channel 26090 (1855.0MHz)	QPSK	1 RB / 0 RB Offset	Channel 26640 (1910.0MHz)	QPSK	1 RB / 49 RB Offset
					
Channel 26090 (1855.0MHz)	QPSK	50 RB / 0 RB Offset	Channel 26640 (1910.0MHz)	QPSK	50 RB / 0 RB Offset
					

LTE Band 25, Channel Bandwidth 15MHz					
Channel 26115 (1857.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 26615 (1907.5MHz)	QPSK	1 RB / 74 RB Offset
					
Channel 26115 (1857.5MHz)	QPSK	75 RB / 0 RB Offset	Channel 26615 (1907.5MHz)	QPSK	75 RB / 0 RB Offset
					

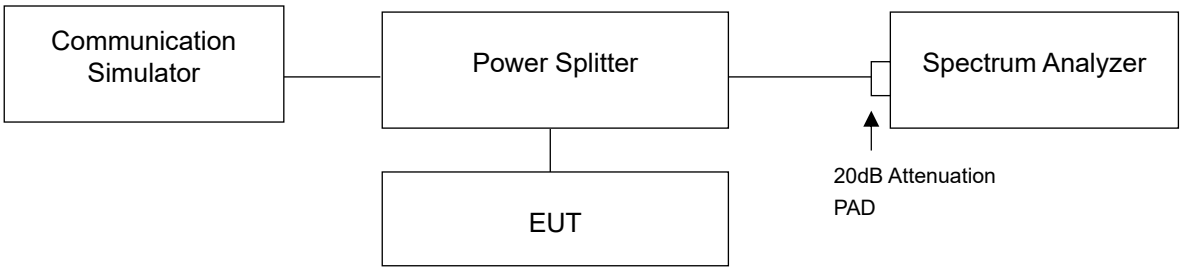
LTE Band 25, Channel Bandwidth 20MHz					
Channel 26140 (1860.0MHz)	QPSK	1 RB / 0 RB Offset	Channel 26590 (1905.0MHz)	QPSK	1 RB / 99 RB Offset
					
Channel 26140 (1860.0MHz)	QPSK	100 RB / 0 RB Offset	Channel 26590 (1905.0MHz)	QPSK	100 RB / 0 RB Offset
					

4.6 Peak to Average Ratio

4.6.1 Limits of Peak to Average Ratio Measurement

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

4.6.2 Test Setup



4.6.3 Test Procedures

a. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
b. Set the number of counts to a value that stabilizes the measured CCDF curve;
c. Record the maximum PAPR level associated with a probability of 0.1%.

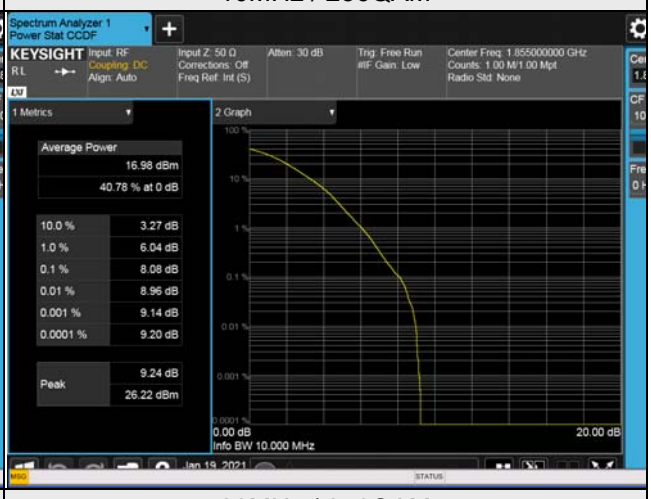
4.6.4 Test Results

Channel	Frequency (MHz)	Peak To Average Ratio (dB)
		WCDMA
9262	1852.4	3.00
9400	1880.0	2.95
9538	1907.6	2.99

Spectrum Plot of Worst Value
WCDMA

LTE Band 2, Channel Bandwidth 1.4MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			
		QPSK	16QAM	64QAM	256QAM
18607	1850.7	4.05	5.58	7.47	7.42
18900	1880.0	3.90	4.58	7.40	7.04
19193	1909.3	3.92	5.60	6.74	7.52
LTE Band 2, Channel Bandwidth 3MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			
		QPSK	16QAM	64QAM	256QAM
18615	1851.5	3.88	5.38	7.34	7.59
18900	1880.0	3.62	5.91	7.50	7.59
19185	1908.5	3.59	5.49	6.73	7.03
LTE Band 2, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			
		QPSK	16QAM	64QAM	256QAM
18625	1852.5	3.92	5.41	7.69	7.72
18900	1880.0	4.02	5.99	7.50	7.69
19175	1907.5	3.31	5.50	6.94	7.17
LTE Band 2, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			
		QPSK	16QAM	64QAM	256QAM
18650	1855.0	4.20	5.11	7.39	8.08
18900	1880.0	4.32	6.39	7.71	8.03
19150	1905.0	3.52	4.26	6.89	7.77
LTE Band 2, Channel Bandwidth 15MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			
		QPSK	16QAM	64QAM	256QAM
18675	1857.5	3.93	5.37	7.22	7.69
18900	1880.0	3.65	4.60	7.30	7.85
19125	1902.5	3.59	4.56	7.23	7.60

LTE Band 2, Channel Bandwidth 20MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			
		QPSK	16QAM	64QAM	256QAM
18700	1860.0	3.78	5.49	6.55	8.04
18900	1880.0	3.64	4.62	6.96	8.04
19100	1900.0	3.57	4.75	6.68	7.85

Spectrum Plot of Worst Value	
1.4MHz / 256QAM	3MHz / 256QAM
5MHz / 256QAM	10MHz / 256QAM
	
15MHz / 256QAM	20MHz / 256QAM

LTE Band 25, Channel Bandwidth 1.4MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			
		QPSK	16QAM	64QAM	256QAM
26047	1850.7	3.82	6.01	7.13	7.59
26365	1882.5	4.14	6.04	7.30	7.46
26683	1914.3	3.92	5.56	6.67	6.79
LTE Band 25, Channel Bandwidth 3MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			
		QPSK	16QAM	64QAM	256QAM
26055	1851.5	3.66	4.37	7.36	7.44
26365	1882.5	3.75	5.74	7.35	7.69
26675	1913.5	3.72	5.42	6.87	6.81
LTE Band 25, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			
		QPSK	16QAM	64QAM	256QAM
26065	1852.5	3.99	5.88	7.38	7.81
26365	1882.5	3.88	5.81	7.37	7.81
26665	1912.5	3.74	5.41	6.90	6.87
LTE Band 25, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			
		QPSK	16QAM	64QAM	256QAM
26090	1855.0	4.17	6.10	7.47	8.23
26365	1882.5	4.04	5.88	7.37	7.90
26640	1910.0	3.76	5.37	6.84	7.24
LTE Band 25, Channel Bandwidth 15MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			
		QPSK	16QAM	64QAM	256QAM
26115	1857.5	4.16	5.98	7.48	7.37
26365	1882.5	3.70	5.58	6.98	7.71
26615	1907.5	3.75	5.50	7.03	7.47

LTE Band 25, Channel Bandwidth 20MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			
		QPSK	16QAM	64QAM	256QAM
26140	1860.0	3.90	5.97	7.29	8.26
26365	1882.5	3.51	5.34	6.90	7.71
26590	1905.0	3.80	5.39	6.91	7.80

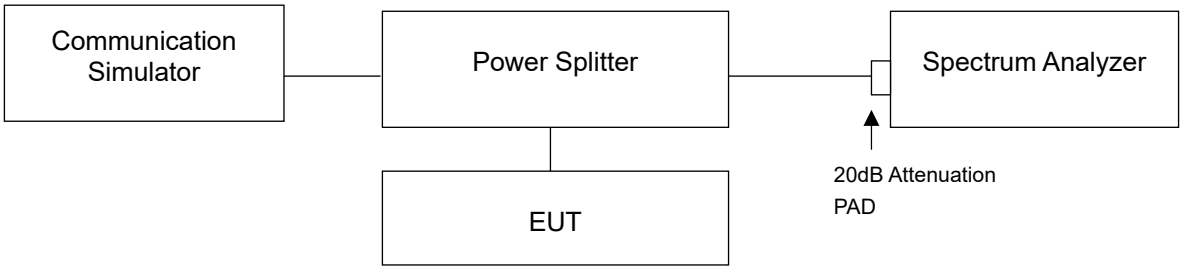
Spectrum Plot of Worst Value	
1.4MHz / 256QAM	3MHz / 256QAM
5MHz / 256QAM	10MHz / 256QAM
15MHz / 64QAM	20MHz / 256QAM

4.7 Conducted Spurious Emissions

4.7.1 Limits of Conducted Spurious Emissions Measurement

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. The emission limit equal to –13dBm.

4.7.2 Test Setup

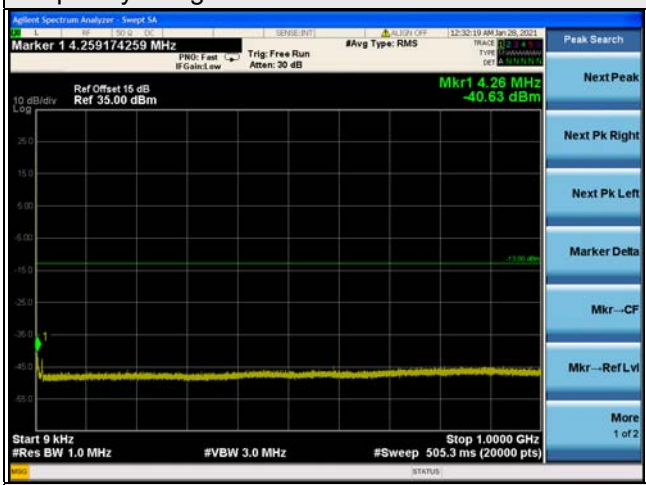
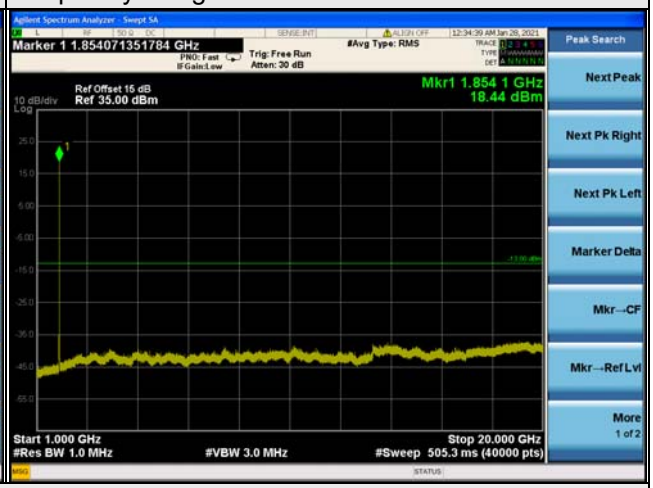
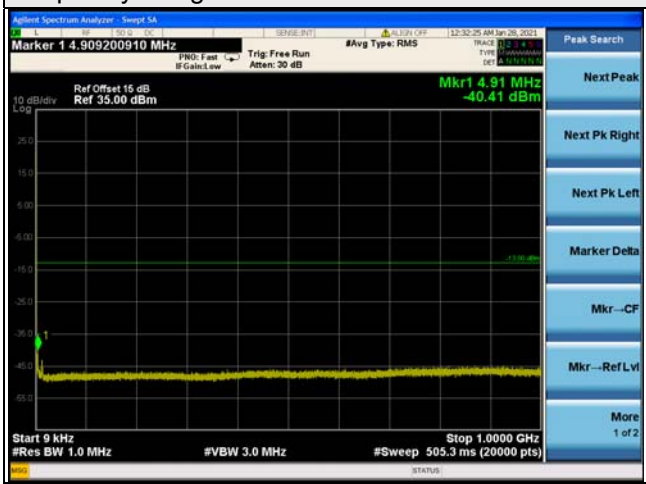
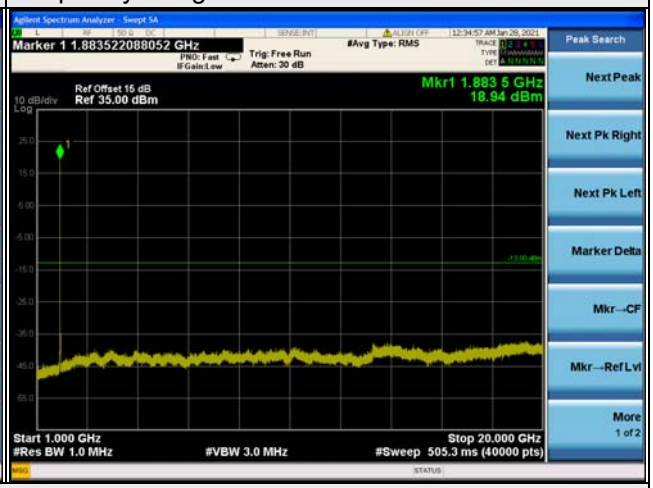
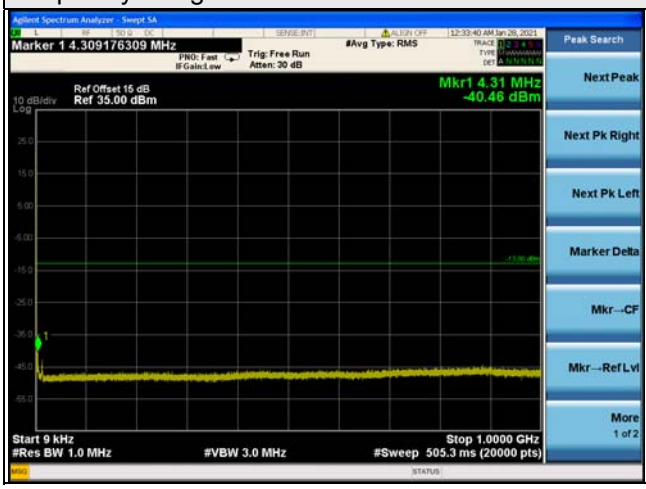
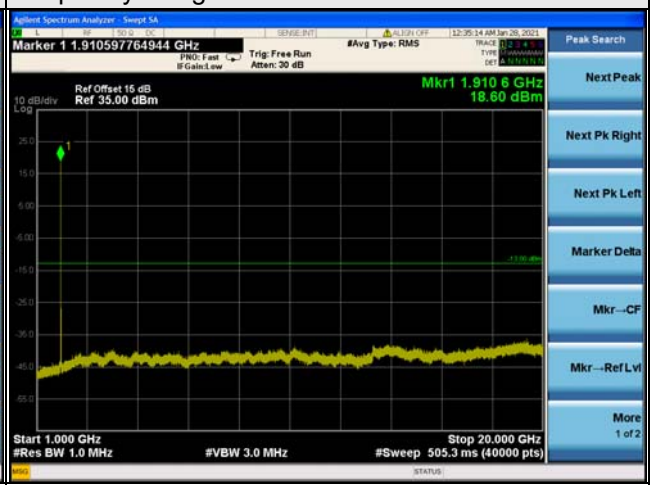


4.7.3 Test Procedure

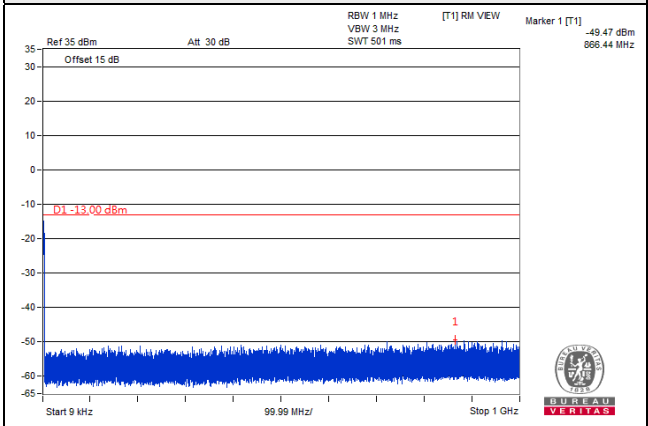
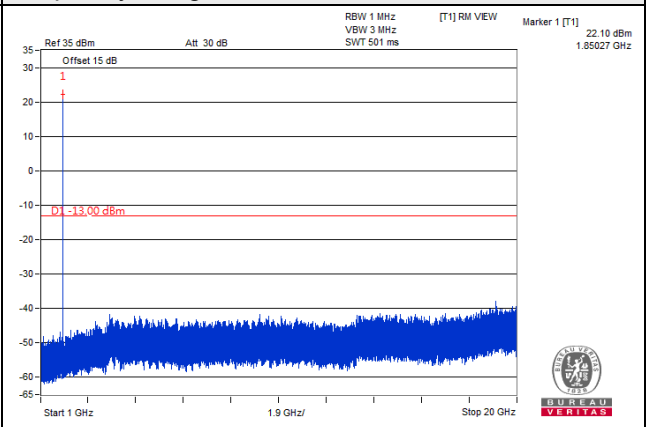
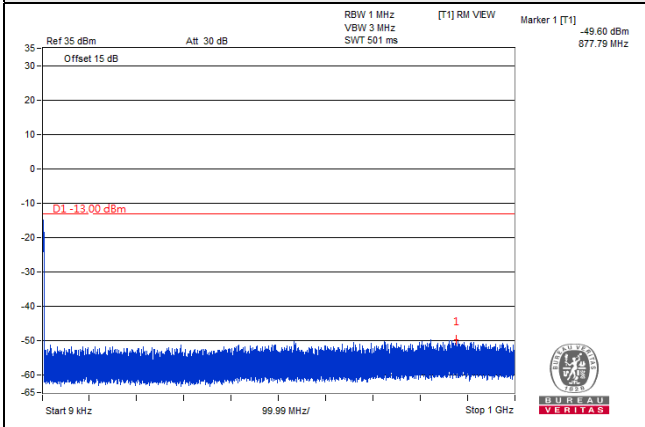
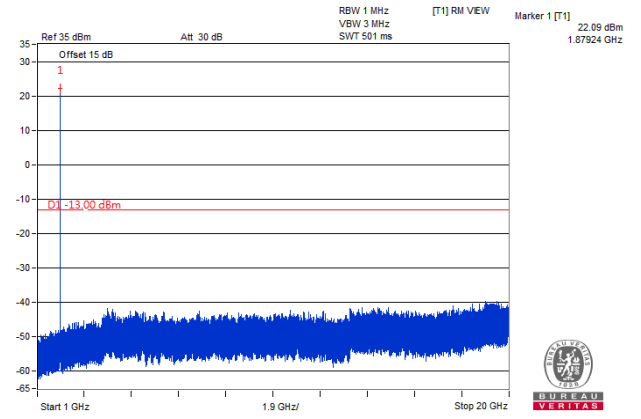
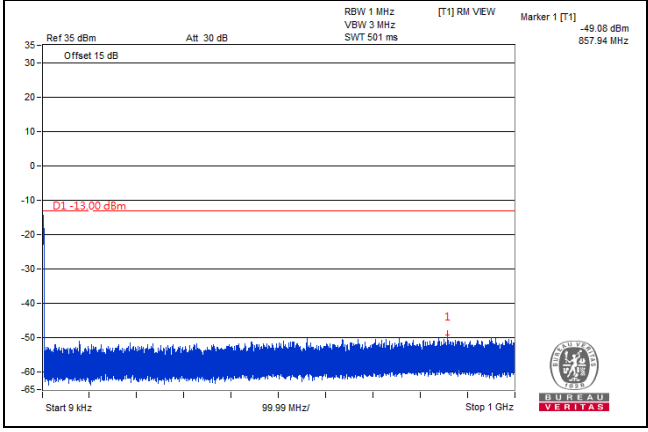
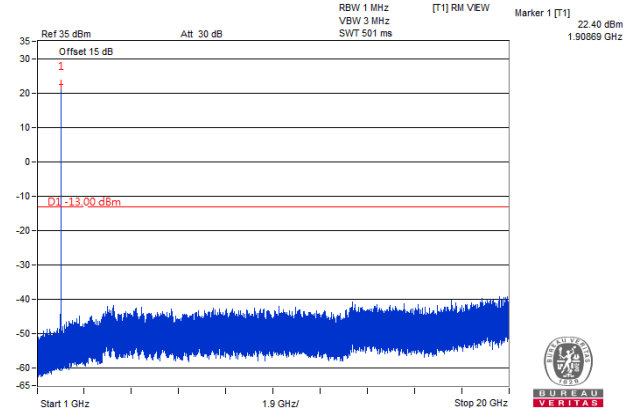
a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.

b. Measuring frequency range is from 9kHz to 20GHz. 20dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz are used for conducted emission measurement.

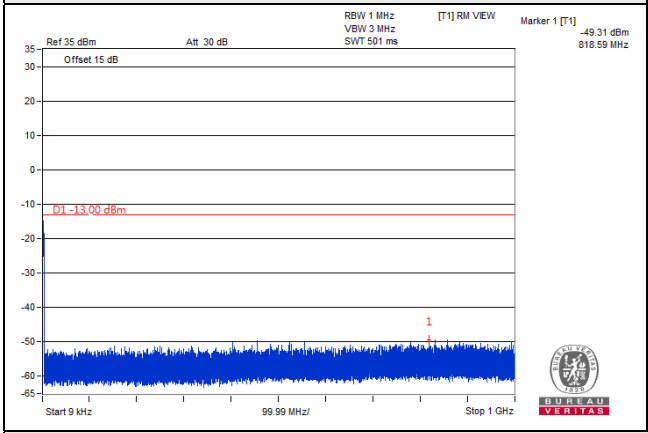
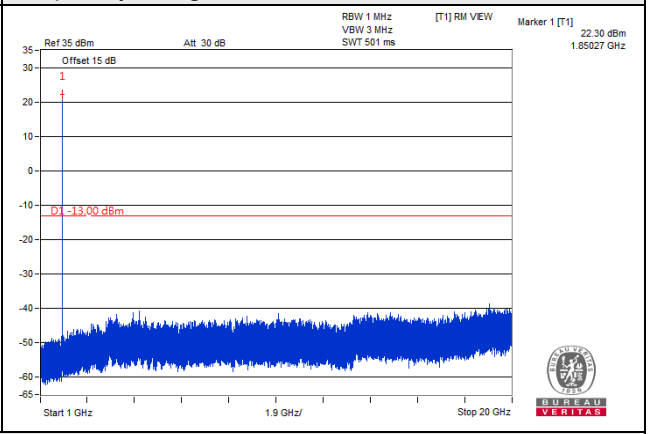
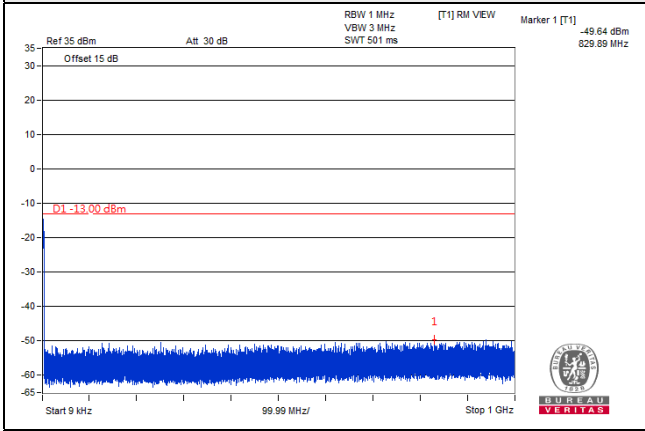
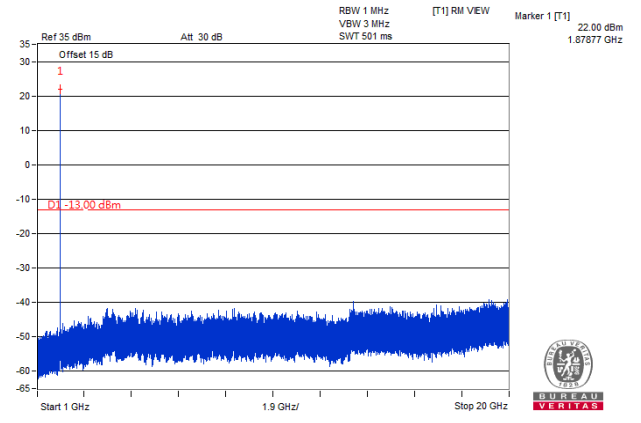
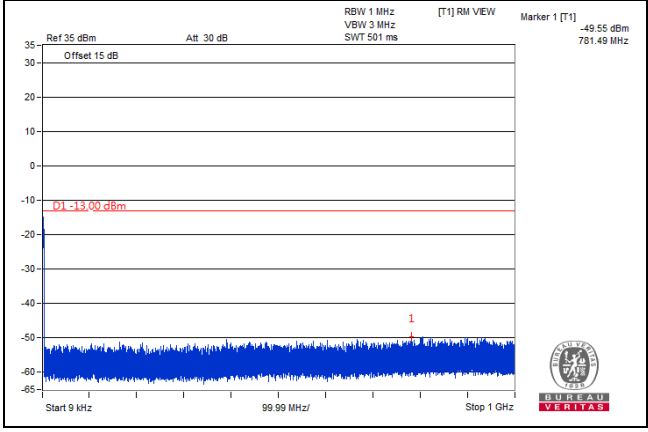
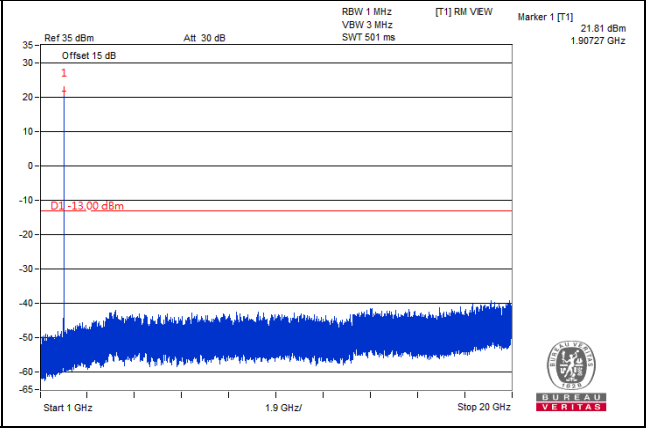
4.7.4 Test Results

WCDMA	
Channel 9262 (1852.4MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 9400 (1880.0MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 9538 (1907.6MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	

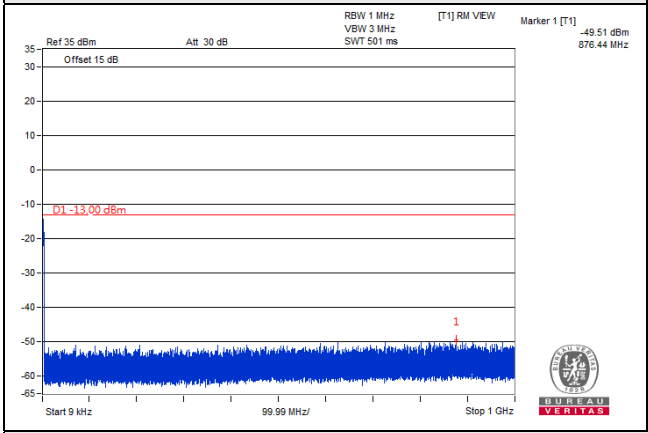
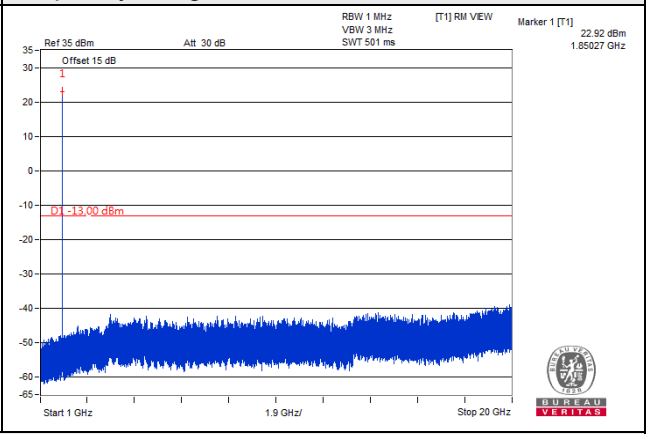
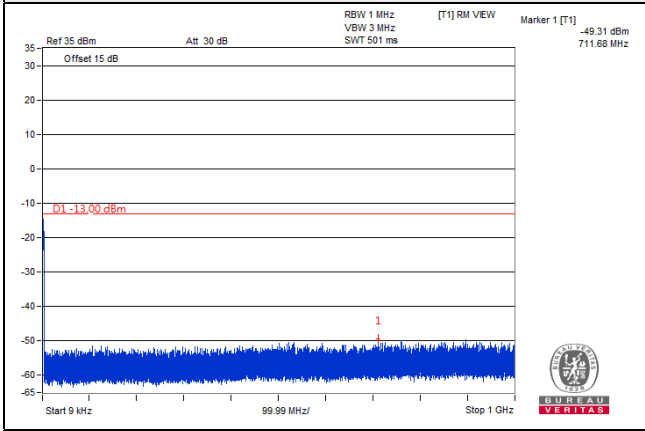
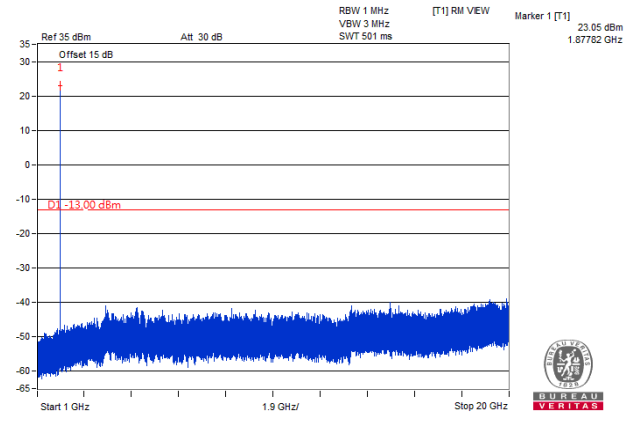
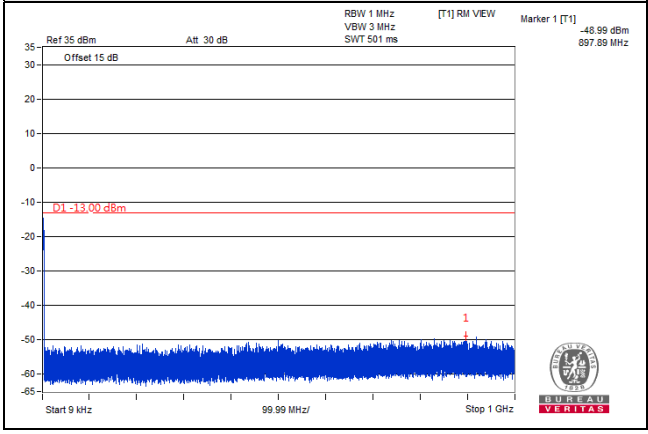
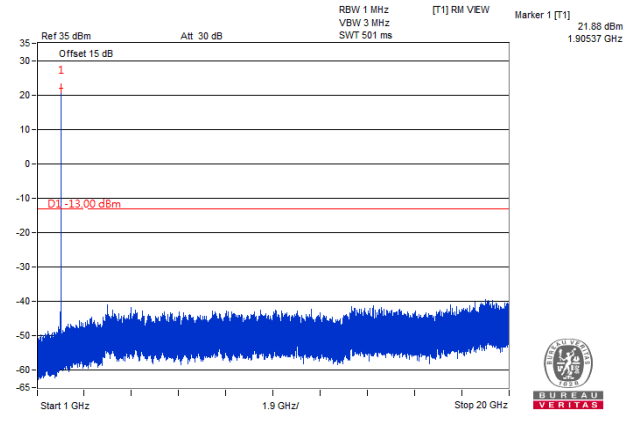
*The 9kHz signal over the limit is from Spectrum.

LTE Band 2, Channel Bandwidth 1.4MHz	
Channel 18607 (1850.70MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 18900 (1880.00MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 19193 (1909.30MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	

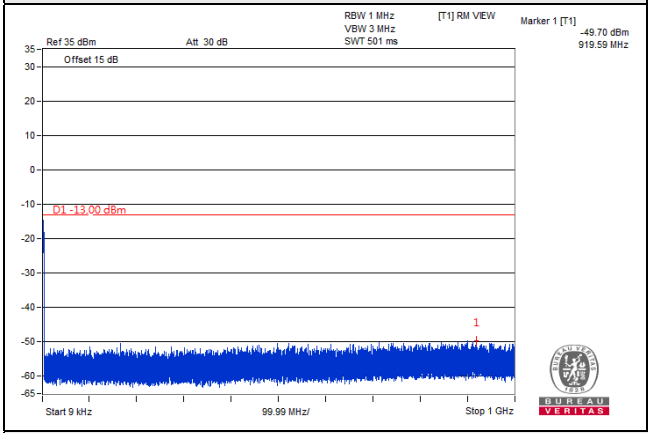
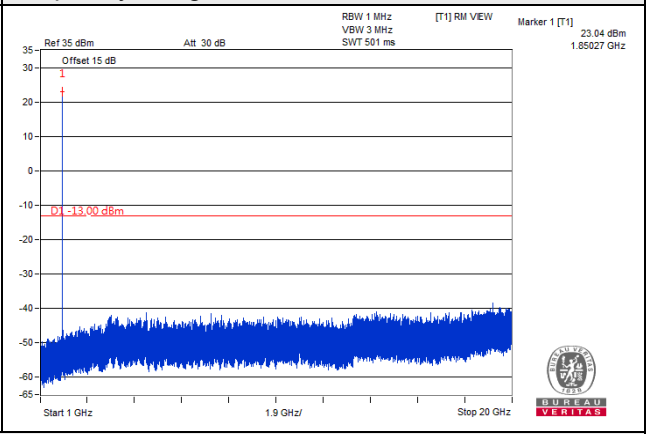
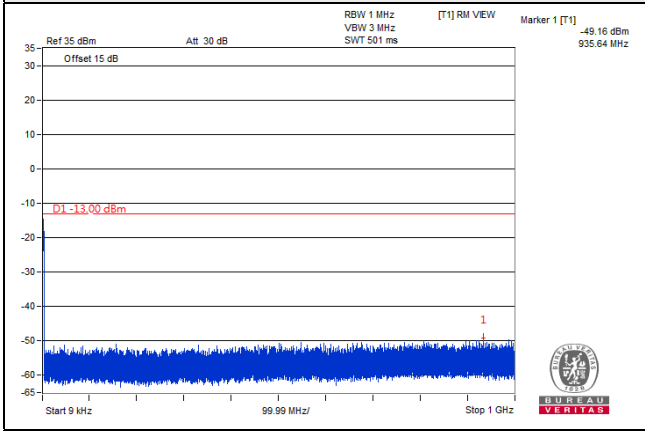
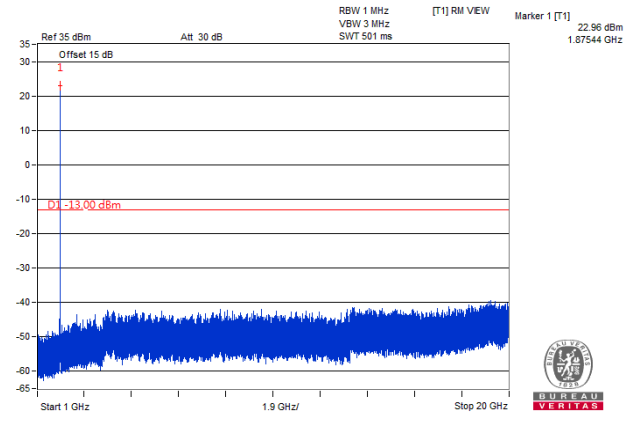
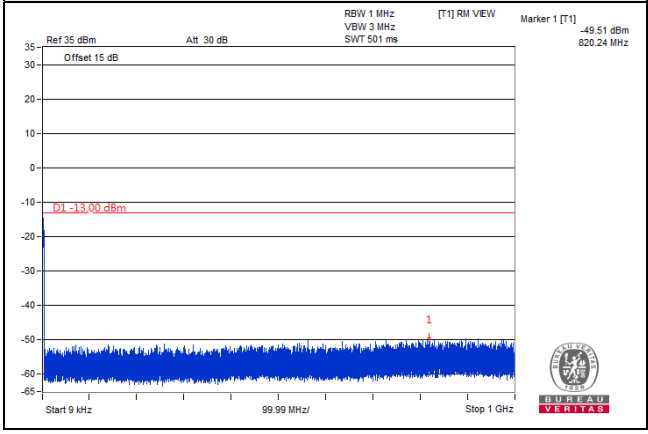
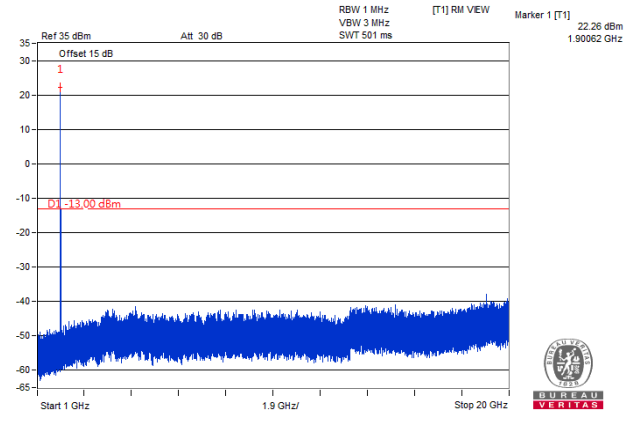
*The 9kHz signal over the limit is from Spectrum.

LTE Band 2, Channel Bandwidth 3MHz	
Channel 18615 (1851.50MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 18900 (1880.00MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 19185 (1908.50MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	

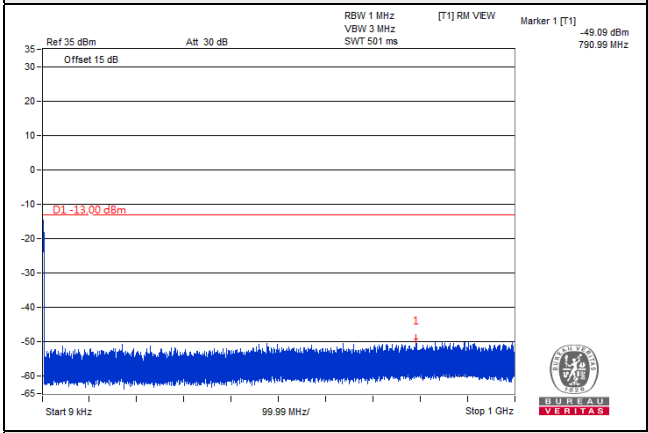
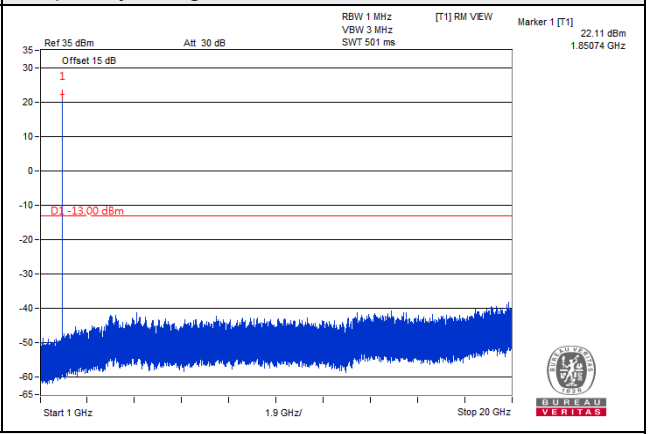
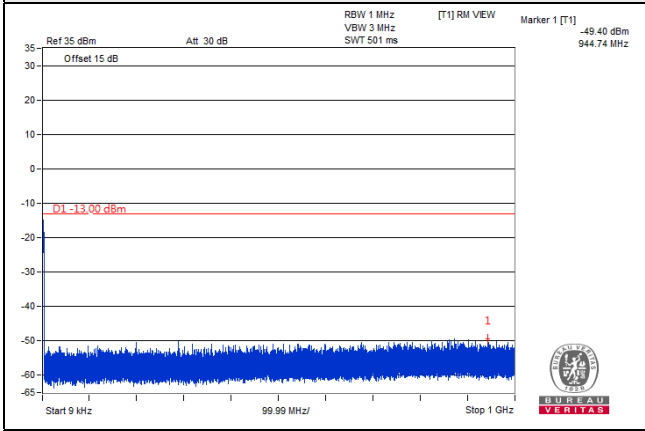
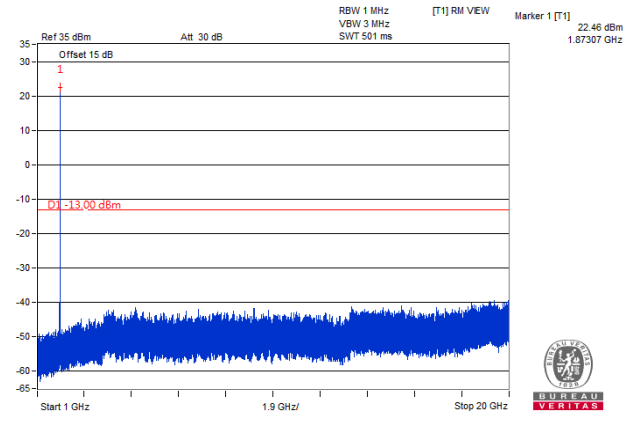
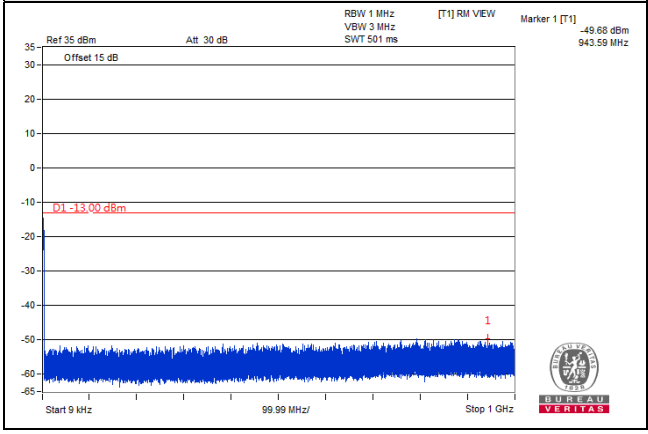
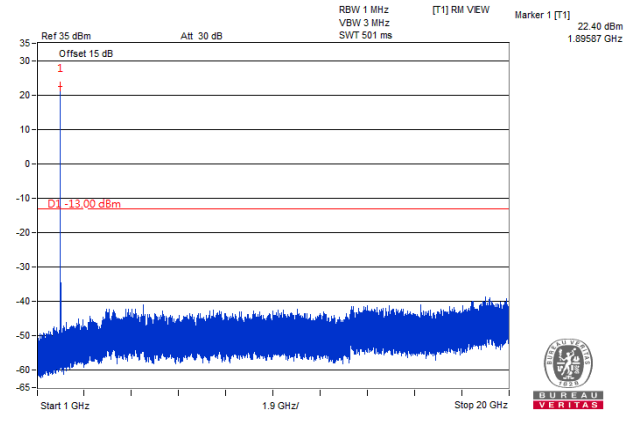
*The 9kHz signal over the limit is from Spectrum.

LTE Band 2, Channel Bandwidth 5MHz	
Channel 18625 (1852.50MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 18900 (1880.00MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 19175 (1907.50MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	

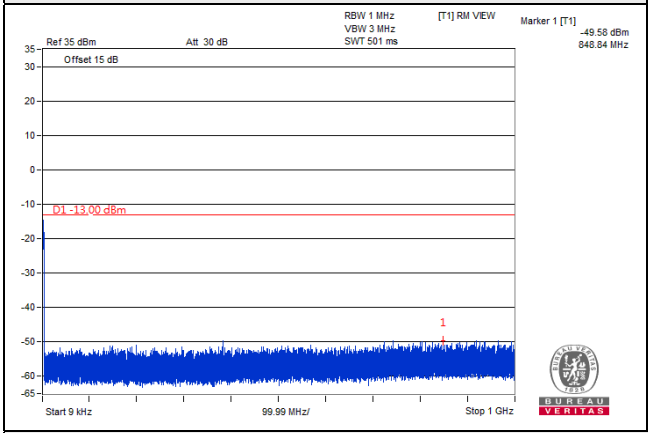
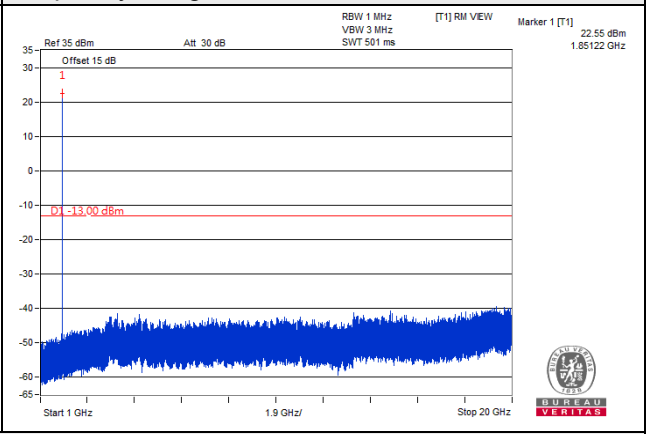
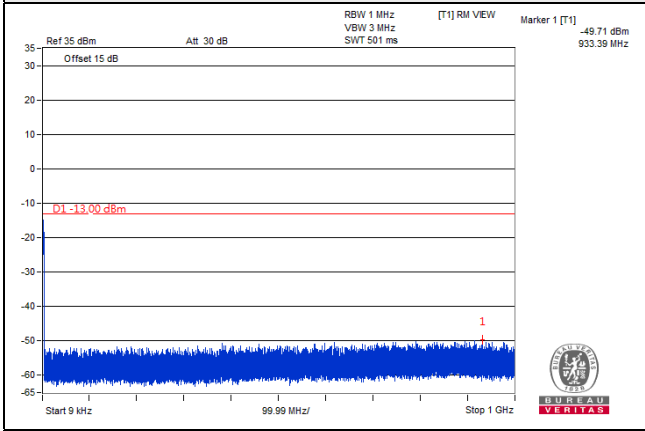
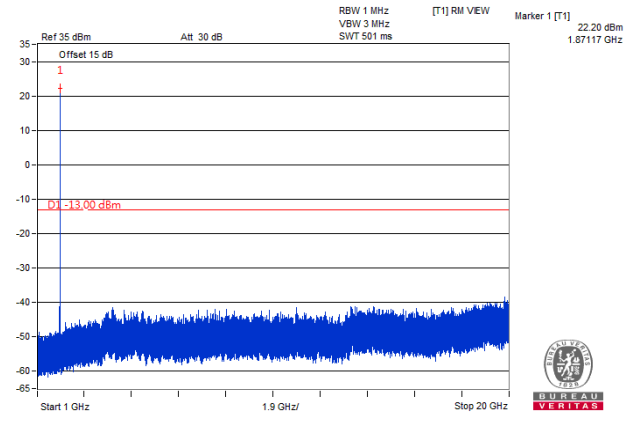
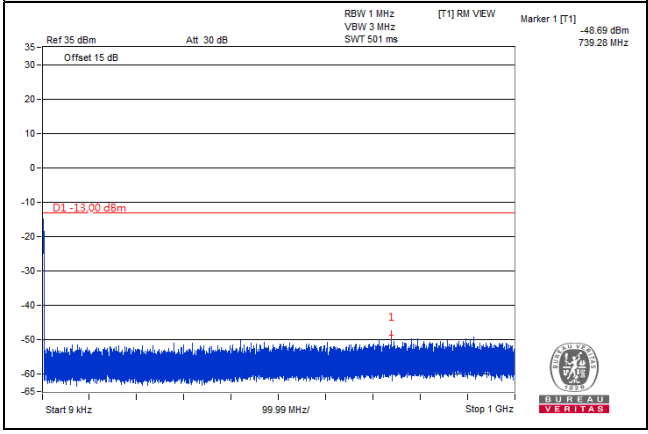
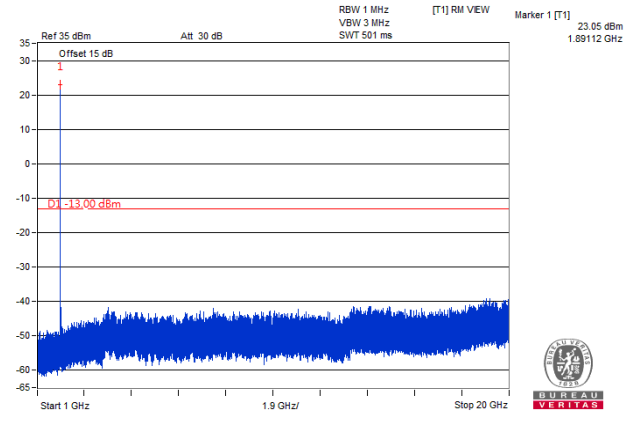
*The 9kHz signal over the limit is from Spectrum.

LTE Band 2, Channel Bandwidth 10MHz	
Channel 18650 (1855.00MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 18900 (1880.00MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 19150 (1905.00MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	

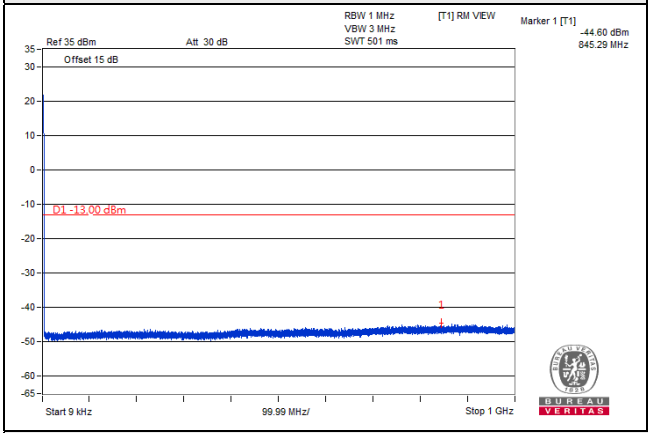
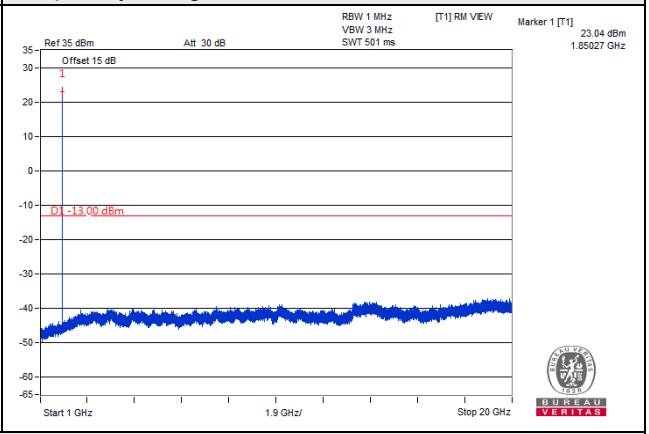
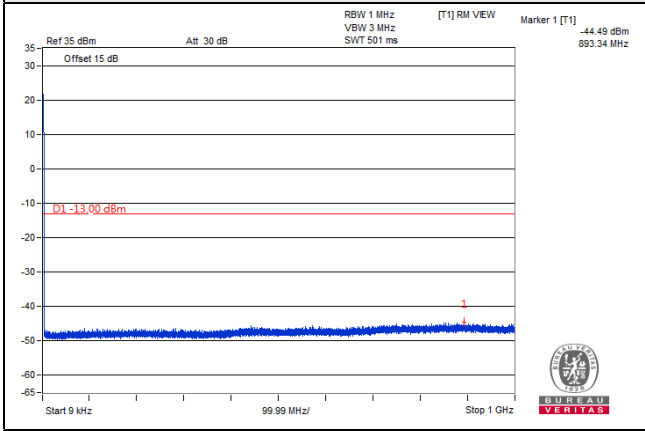
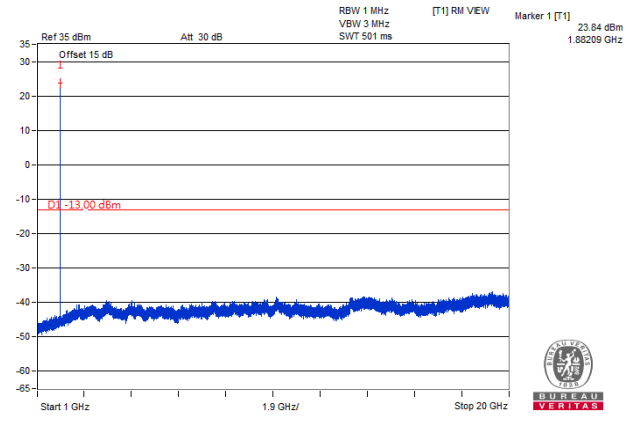
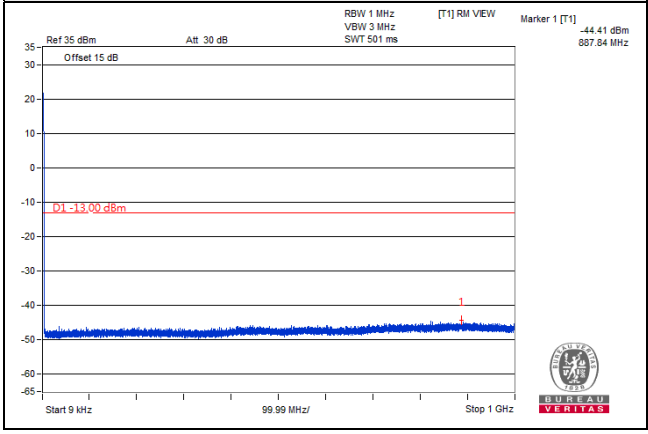
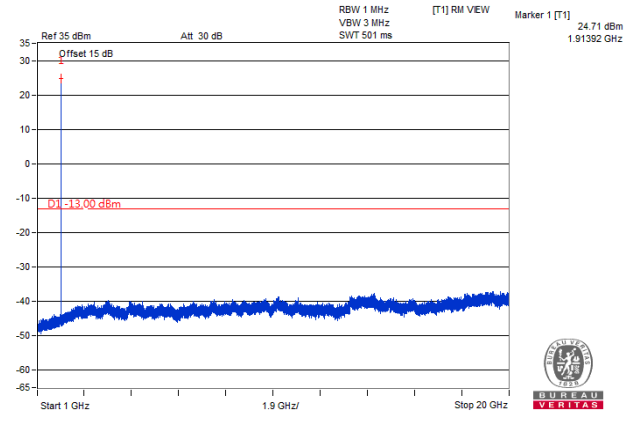
*The 9kHz signal over the limit is from Spectrum.

LTE Band 2, Channel Bandwidth 15MHz	
Channel 18675 (1857.50MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 18900 (1880.00MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 19125 (1902.50MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	

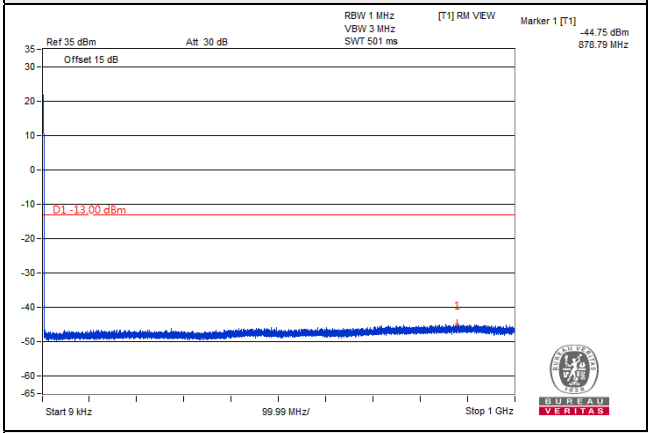
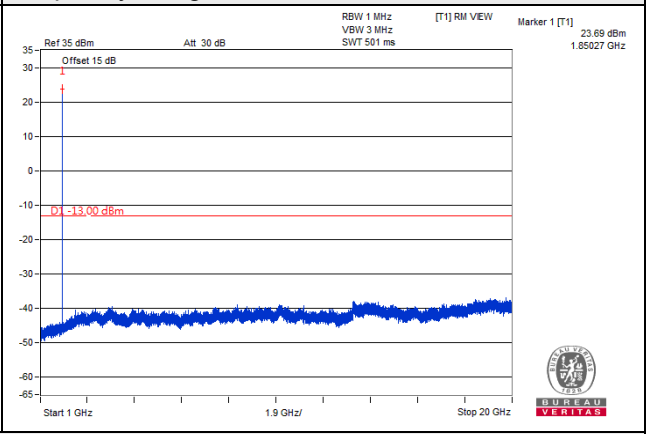
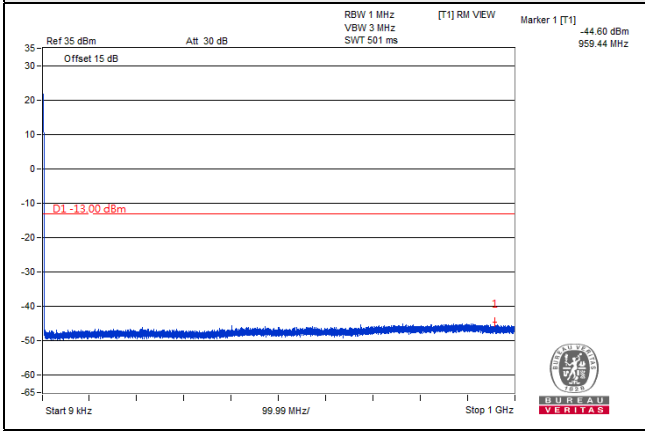
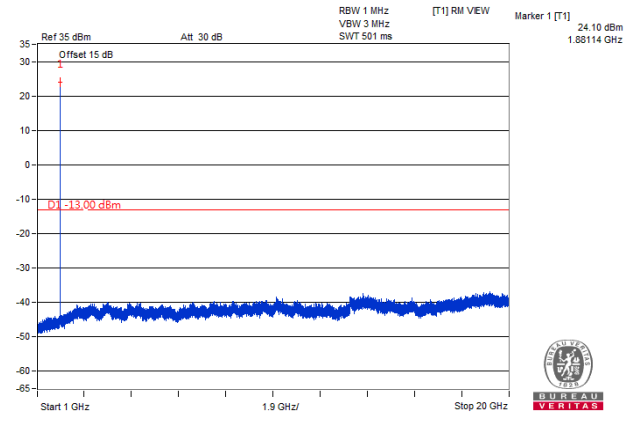
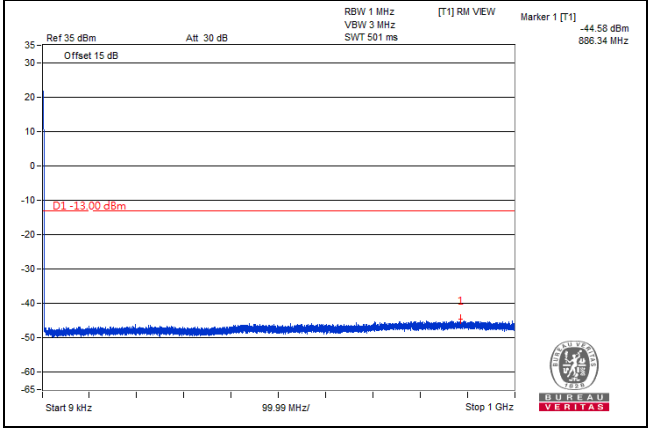
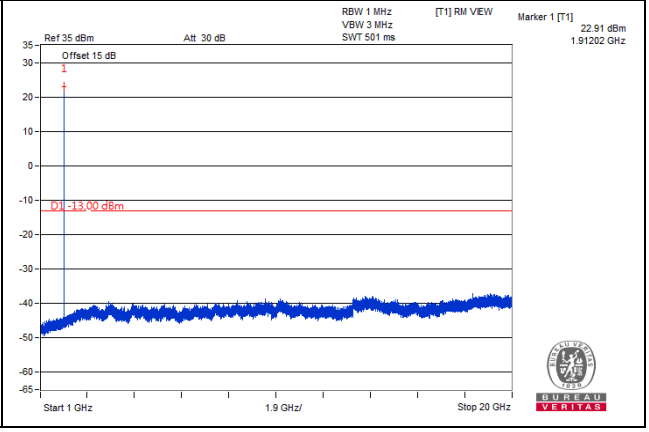
*The 9kHz signal over the limit is from Spectrum.

LTE Band 2, Channel Bandwidth 20MHz	
Channel 18700 (1860.00MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 18900 (1880.00MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 19100 (1900.00MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	

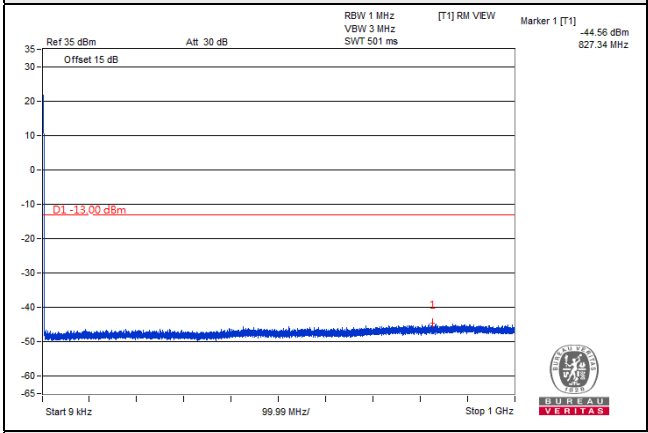
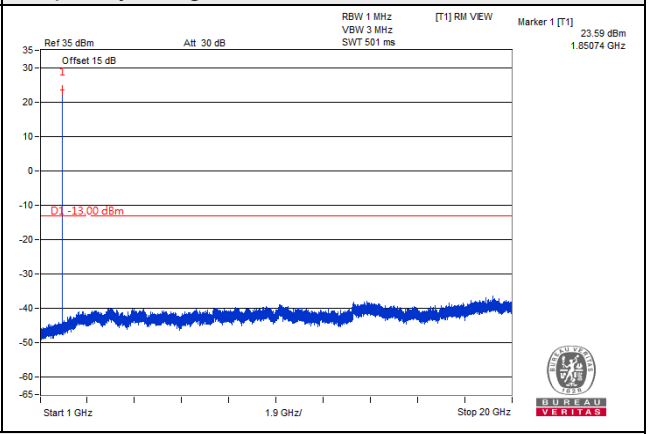
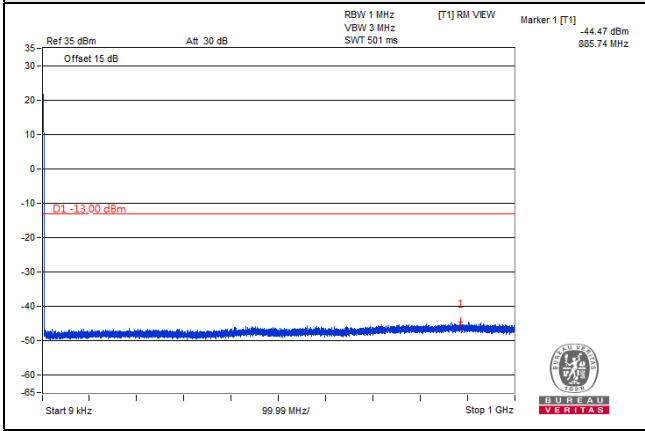
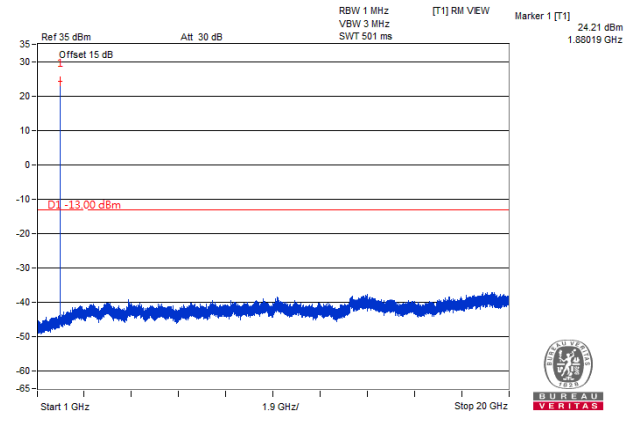
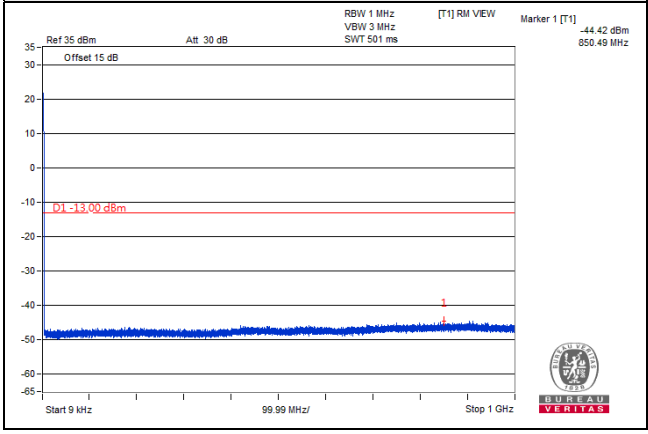
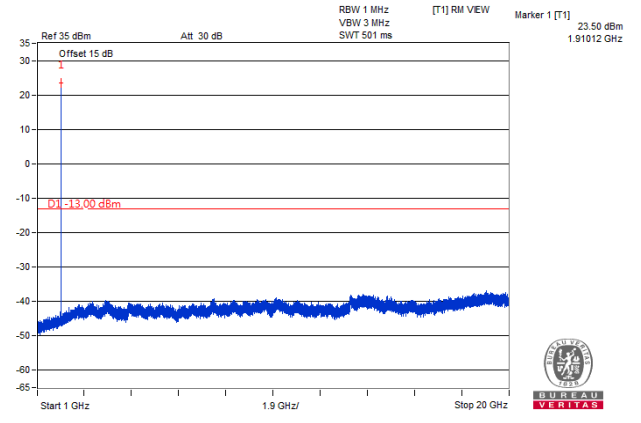
*The 9kHz signal over the limit is from Spectrum.

LTE Band 25, Channel Bandwidth 1.4MHz	
Channel 26047 (1850.7MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 26365 (1882.5MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 26683 (1914.3MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	

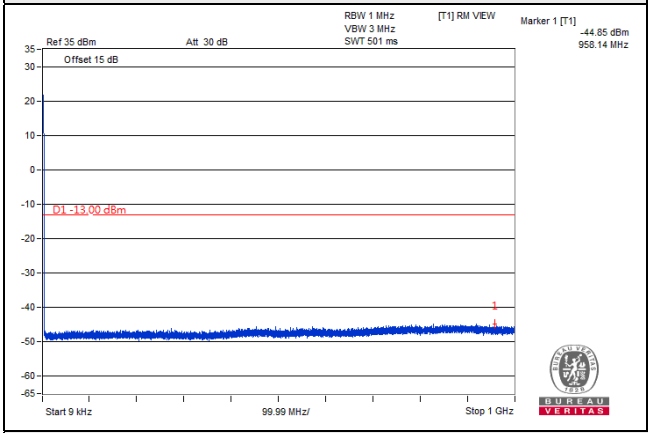
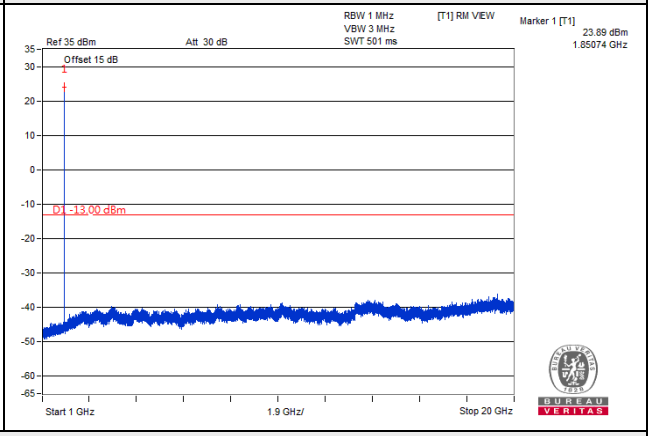
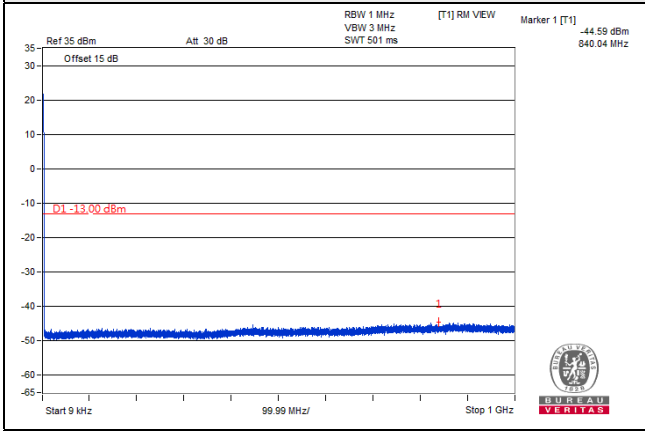
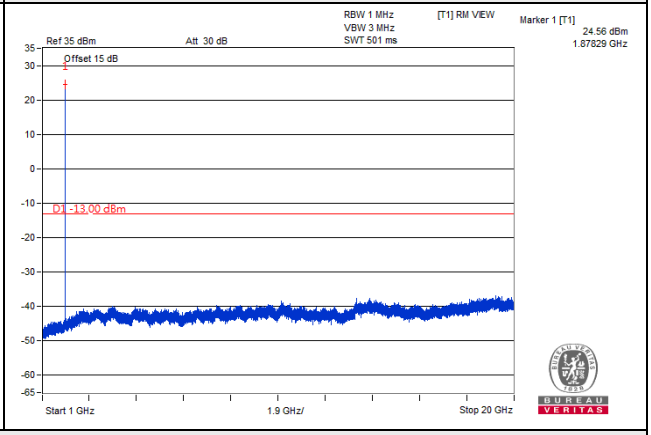
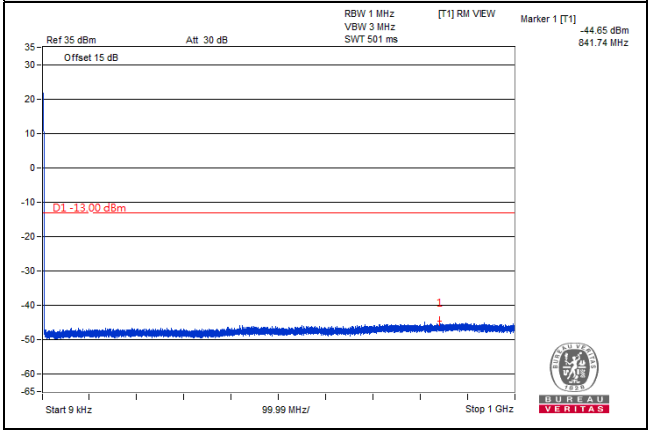
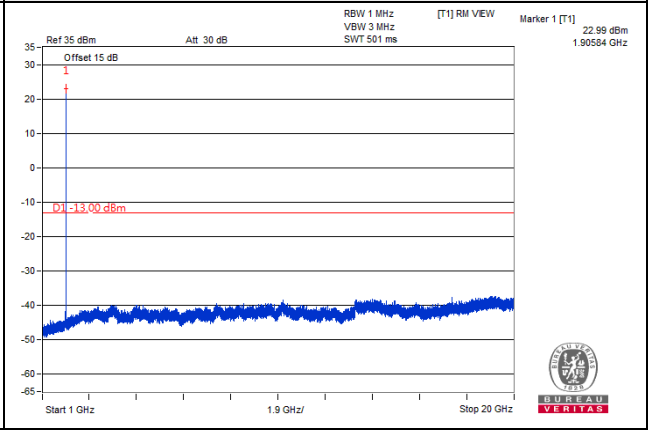
*The 9kHz signal over the limit is from Spectrum.

LTE Band 25, Channel Bandwidth 3MHz	
Channel 26055 (1851.5MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 26365 (1882.5MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 26675 (1913.5MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	

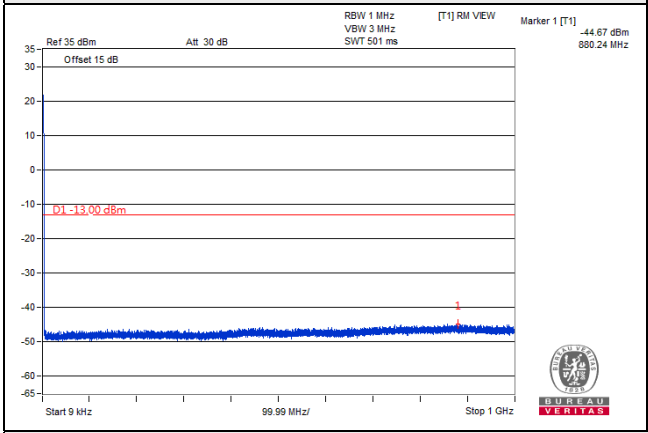
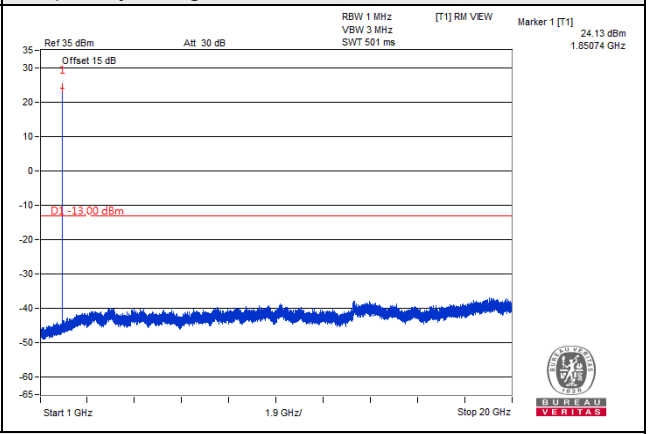
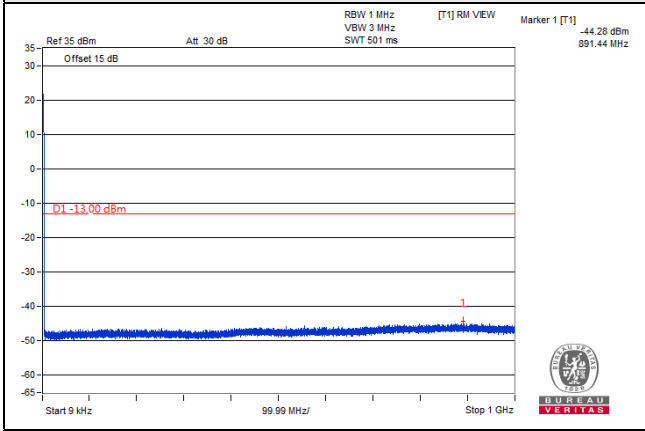
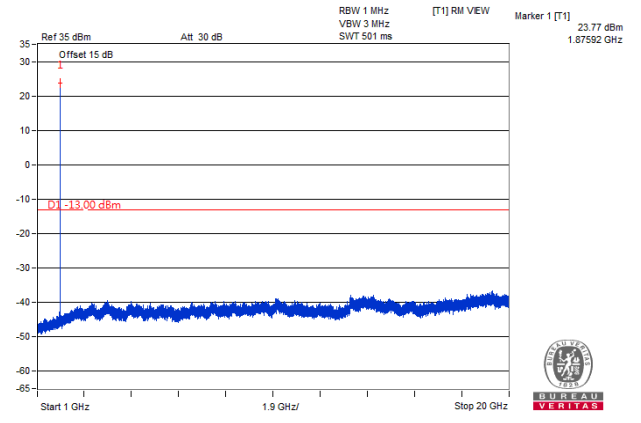
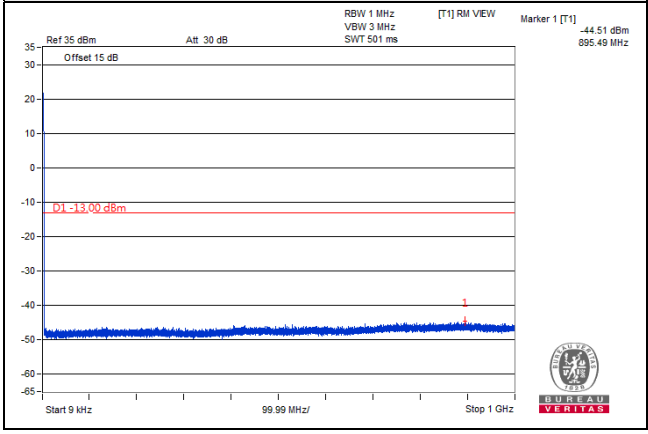
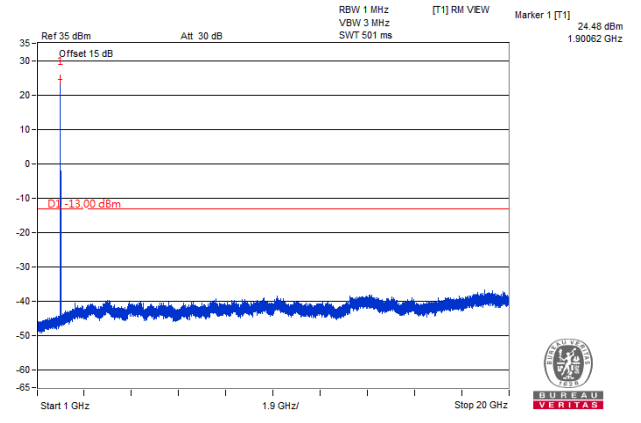
*The 9kHz signal over the limit is from Spectrum.

LTE Band 25, Channel Bandwidth 5MHz	
Channel 26065 (1852.5MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 26365 (1882.5MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 26665 (1912.5MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	

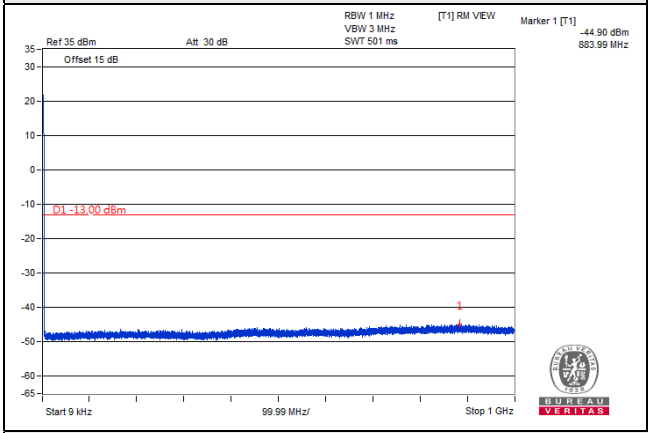
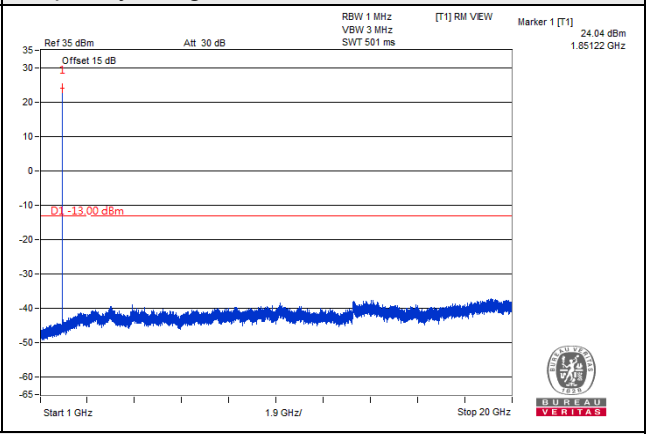
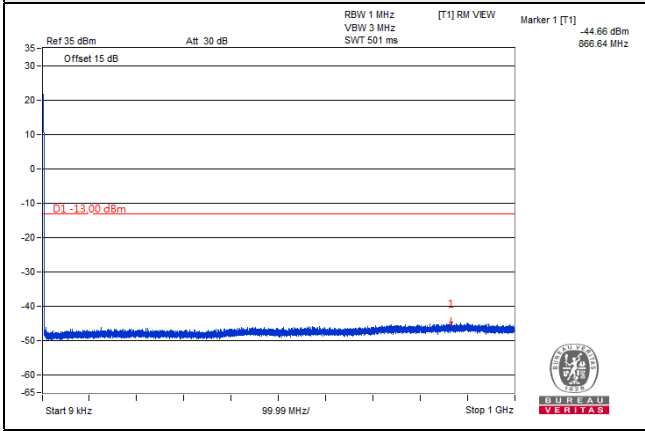
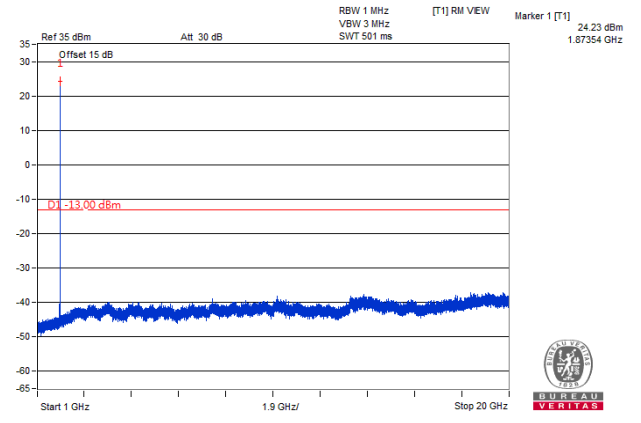
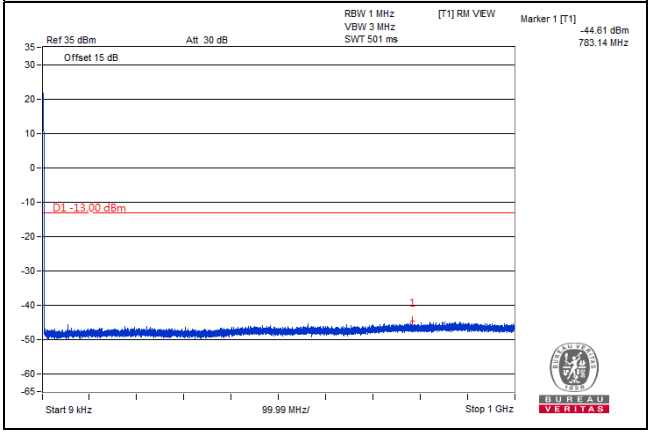
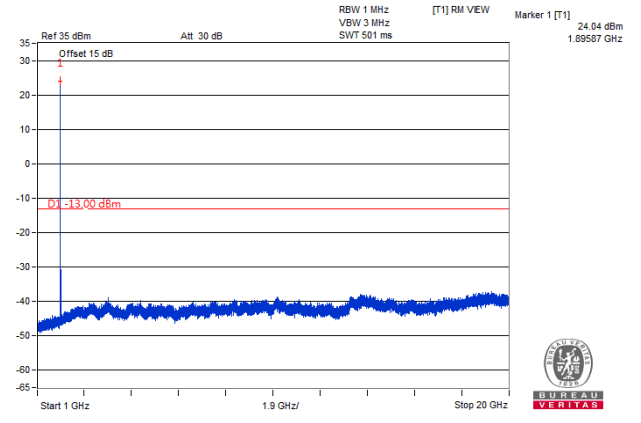
*The 9kHz signal over the limit is from Spectrum.

LTE Band 25, Channel Bandwidth 10MHz	
Channel 26090 (1855.0MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 26365 (1882.5MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 26640 (1910.0MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	

*The 9kHz signal over the limit is from Spectrum.

LTE Band 25, Channel Bandwidth 15MHz	
Channel 26115 (1857.5MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 26365 (1882.5MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 26615 (1907.5MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	

*The 9kHz signal over the limit is from Spectrum.

LTE Band 25, Channel Bandwidth 20MHz	
Channel 26140 (1860.0MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 26365 (1882.5MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Channel 26590 (1905.0MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	

*The 9kHz signal over the limit is from Spectrum.

4.8 Radiated Emission Measurement

4.8.1 Limits of Radiated Emission Measurement

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. The emission limit equal to –13dBm.

4.8.2 Test Procedure

a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m(below or equal 1GHz) and/or 1.5m(above 1GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.

b. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.

d. Following C63.26 section 5.5 and 5.2.7
   - EIRP (dBm) = E (dBμV/m) + 20log(D) - 104.8; where D is the measurement distance (in the far field region) in m.
   - ERP (dBm) = E (dBμV/m) + 20log(D) - 104.8 - 2.15; where D is the measurement distance (in the far field region) in m.

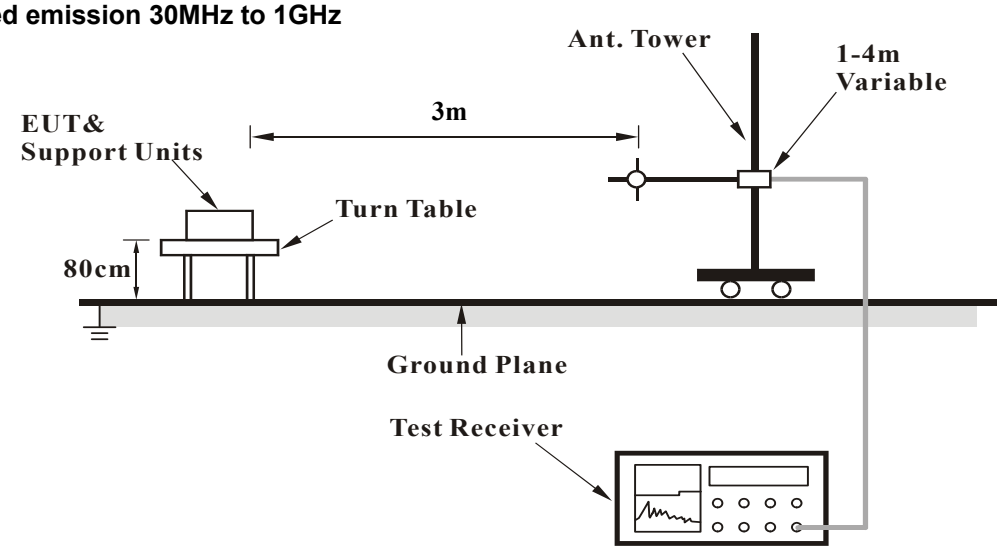
Note:
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.
2. The emission levels were against the limit of frequency range 9 kHz ~ 30 MHz:
   The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

4.8.3 Deviation from Test Standard

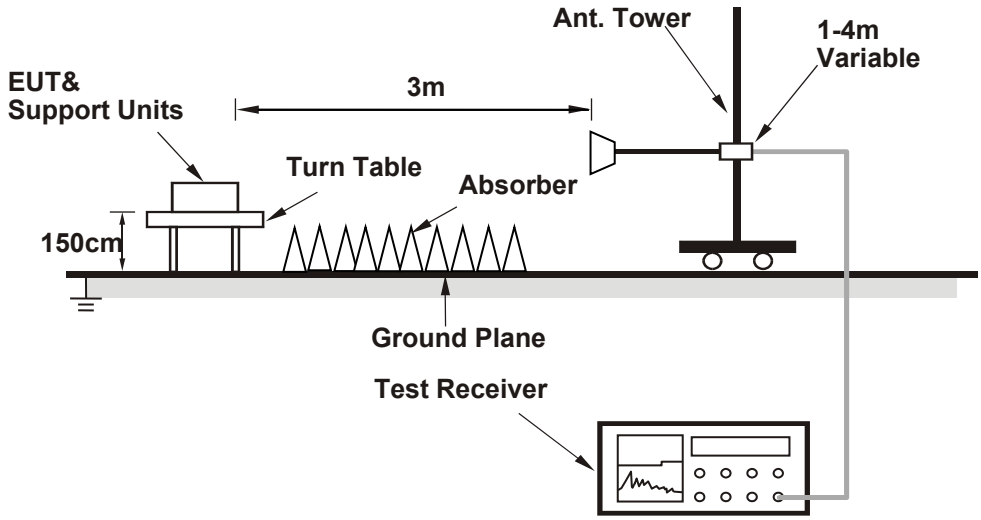
No deviation.

4.8.4 Test Setup

For radiated emission 30MHz to 1GHz



For radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.8.5 Test Results

Internal Antenna

Below 1GHz

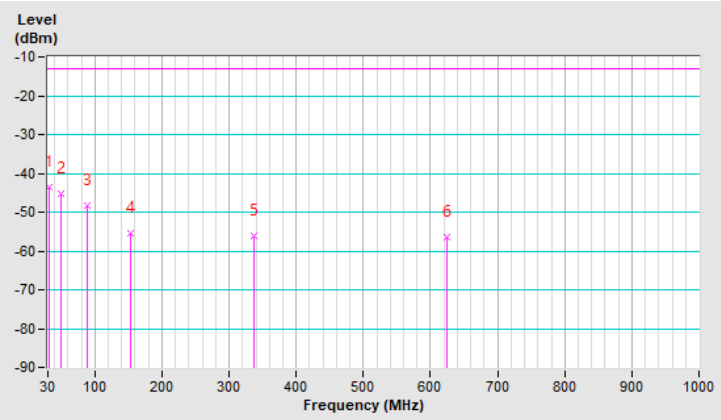
WCDMA Band 2

Mode	TX channel 9262 (1852.4MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.94	-43.50	-13.00	-30.50	1.25 H	7	62.09	-105.59
2	49.40	-45.30	-13.00	-32.30	1.50 H	280	58.87	-104.17
3	89.17	-48.30	-13.00	-35.30	1.25 H	145	61.27	-109.57
4	154.16	-55.28	-13.00	-42.28	1.00 H	269	48.13	-103.41
5	336.52	-56.10	-13.00	-43.10	2.00 H	133	45.08	-101.18
6	623.64	-56.31	-13.00	-43.31	1.00 H	7	39.00	-95.31

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

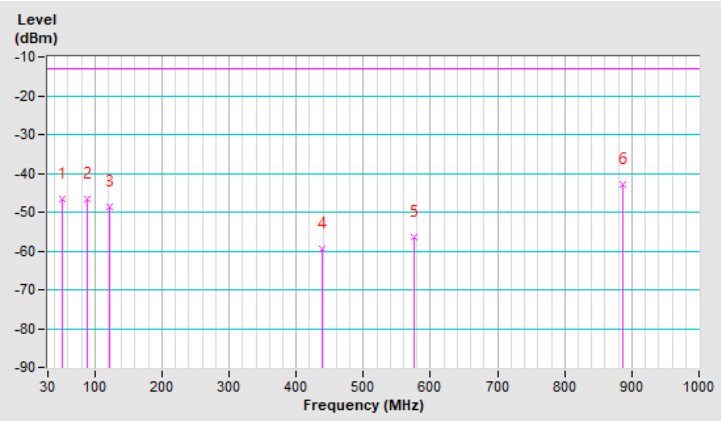


Mode	TX channel 9262 (1852.4MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	52.31	-46.50	-13.00	-33.50	1.25 V	2	57.70	-104.20
2	88.20	-46.48	-13.00	-33.48	1.00 V	173	63.14	-109.62
3	121.18	-48.80	-13.00	-35.80	2.00 V	117	57.04	-105.84
4	438.37	-59.40	-13.00	-46.40	2.00 V	139	39.57	-98.97
5	576.11	-56.50	-13.00	-43.50	1.25 V	280	39.97	-96.47
6	886.51	-42.87	-13.00	-29.87	1.00 V	165	47.87	-90.74

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



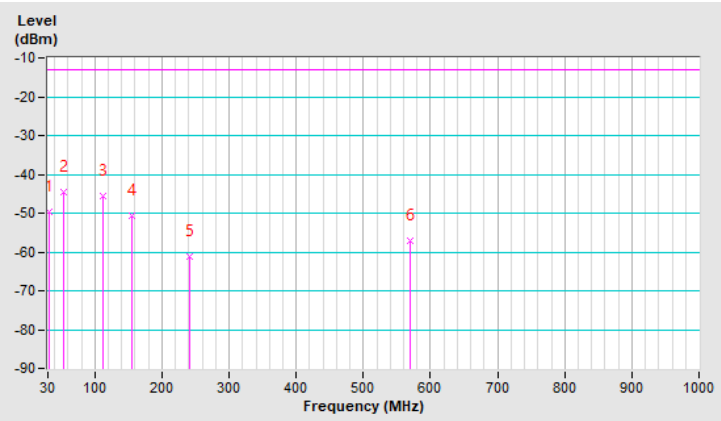
LTE Band 2, Channel Bandwidth 5MHz

Mode	TX channel 19175 (1907.5MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.91	-49.73	-13.00	-36.73	1.00 H	31	55.96	-105.69
2	54.25	-44.56	-13.00	-31.56	1.25 H	31	59.84	-104.40
3	111.48	-45.51	-13.00	-32.51	1.50 H	272	61.30	-106.81
4	155.13	-50.84	-13.00	-37.84	1.50 H	68	52.63	-103.47
5	240.49	-61.31	-13.00	-48.31	2.00 H	74	43.05	-104.36
6	569.32	-56.97	-13.00	-43.97	1.25 H	176	39.73	-96.70

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

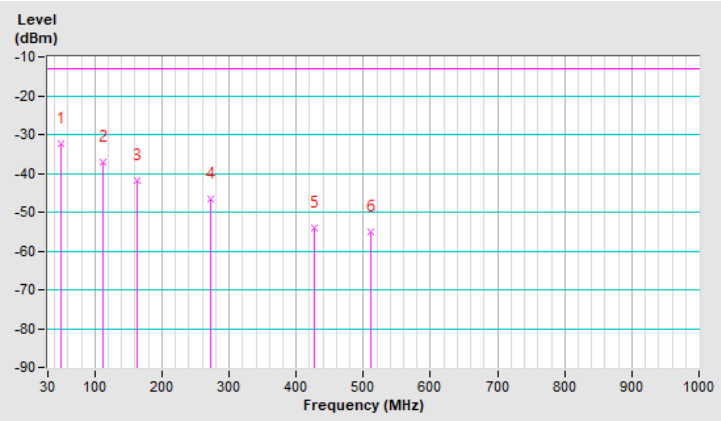


Mode	TX channel 19175 (1907.5MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	**49.40**	**-32.40**	**-13.00**	**-19.40**	**1.25 V**	**107**	**71.77**	**-104.17**
2	111.48	-37.17	-13.00	-24.17	1.00 V	107	69.64	-106.81
3	162.89	-41.70	-13.00	-28.70	1.50 V	107	61.89	-103.59
4	272.50	-46.50	-13.00	-33.50	1.25 V	107	56.28	-102.78
5	426.73	-54.00	-13.00	-41.00	1.50 V	107	45.32	-99.32
6	510.15	-55.15	-13.00	-42.15	1.00 V	285	42.47	-97.62

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



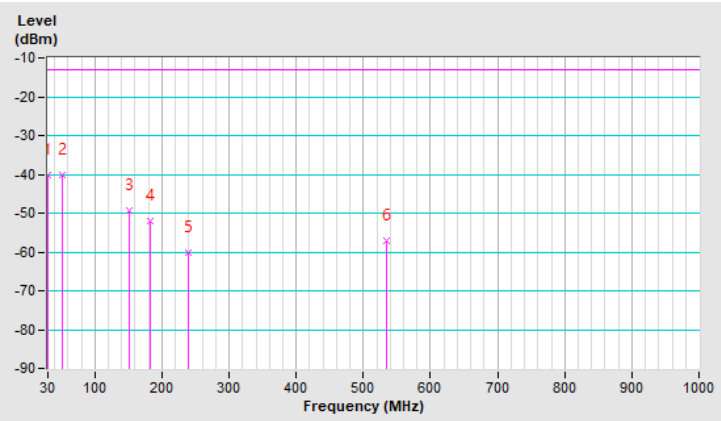
LTE Band 25, Channel Bandwidth 1.4MHz

Mode	TX channel 26683 (1914.3MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.00	-40.20	-13.00	-27.20	2.00 H	37	65.38	-105.58
2	52.31	-40.20	-13.00	-27.20	1.25 H	62	64.00	-104.20
3	152.22	-49.20	-13.00	-36.20	1.50 H	262	54.36	-103.56
4	183.26	-51.91	-13.00	-38.91	1.00 H	259	53.44	-105.35
5	239.52	-60.30	-13.00	-47.30	1.25 H	270	44.13	-104.43
6	535.37	-57.20	-13.00	-44.20	2.00 H	75	40.17	-97.37

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

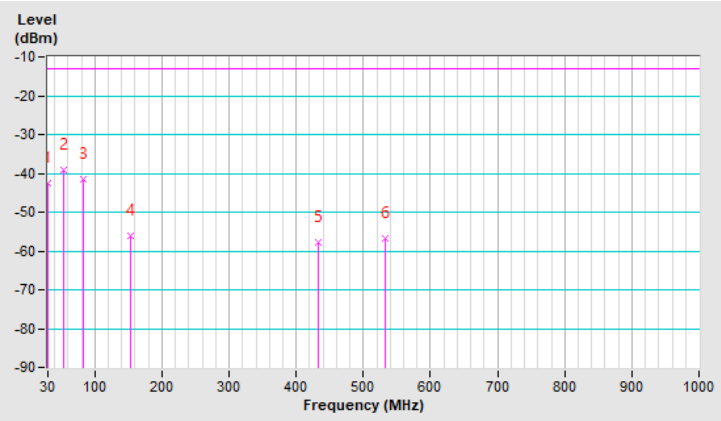


Mode	TX channel 26683 (1914.3MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.00	-42.40	-13.00	-29.40	1.25 V	170	63.18	-105.58
2	54.25	-39.20	-13.00	-26.20	1.50 V	342	65.20	-104.40
3	83.35	-41.50	-13.00	-28.50	1.25 V	153	67.66	-109.16
4	153.19	-56.20	-13.00	-43.20	1.00 V	272	47.37	-103.57
5	433.52	-57.90	-13.00	-44.90	1.25 V	173	41.20	-99.10
6	532.46	-56.66	-13.00	-43.66	1.00 V	314	40.76	-97.42

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



Above 1GHz
WCDMA Band 2

Mode	TX channel 9262 (1852.4MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3704.80	-50.90	-13.00	-37.90	2.21 H	78	45.00	-95.90
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3704.80	-53.70	-13.00	-40.70	1.68 V	171	42.20	-95.90

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 9400 (1880.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-51.20	-13.00	-38.20	2.23 H	76	44.63	-95.83
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-52.80	-13.00	-39.80	1.62 V	173	43.03	-95.83

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 9538 (1907.6MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3815.20	-51.30	-13.00	-38.30	2.22 H	81	44.34	-95.64
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3815.20	-52.90	-13.00	-39.90	1.58 V	169	42.74	-95.64

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 2, Channel Bandwidth 1.4MHz

Mode	TX channel 18607 (1850.7MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3701.40	-53.30	-13.00	-40.30	1.33 H	215	42.60	-95.90
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3701.40	-55.50	-13.00	-42.50	3.16 V	206	40.40	-95.90

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 18900 (1880.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-55.10	-13.00	-42.10	1.30 H	210	40.73	-95.83
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-55.50	-13.00	-42.50	3.15 V	209	40.33	-95.83

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 19193 (1909.3MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3818.60	-53.20	-13.00	-40.20	1.31 H	211	42.44	-95.64
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3818.60	-55.30	-13.00	-42.30	3.16 V	208	40.34	-95.64

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 2, Channel Bandwidth 5MHz

Mode	TX channel 18625 (1852.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3705.00	-53.20	-13.00	-40.20	1.31 H	214	42.70	-95.90
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3705.00	-55.30	-13.00	-42.30	3.17 V	208	40.60	-95.90

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 18900 (1880.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-53.30	-13.00	-40.30	1.54 H	223	42.53	-95.83
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-54.80	-13.00	-41.80	3.36 V	211	41.03	-95.83

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 19175 (1907.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3815.00	-53.02	-13.00	-40.02	1.69 H	224	42.62	-95.64
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3815.00	-52.80	-13.00	-39.80	3.50 V	206	42.84	-95.64

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 2, Channel Bandwidth 20MHz

Mode	TX channel 18700 (1860.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	-55.30	-13.00	-42.30	1.38 H	215	40.59	-95.89
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	-57.60	-13.00	-44.60	3.41 V	214	38.29	-95.89

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 18900 (1880.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-54.40	-13.00	-41.40	1.79 H	241	41.43	-95.83
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-55.30	-13.00	-42.30	3.15 V	205	40.53	-95.83

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 19100 (1900.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3800.00	-53.20	-13.00	-40.20	1.30 H	213	42.44	-95.64
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3800.00	-54.50	-13.00	-41.50	3.14 V	210	41.14	-95.64

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 25, Channel Bandwidth 1.4MHz

Mode	TX channel 26047 (1850.7MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3701.40	-46.30	-13.00	-33.30	2.66 H	160	49.60	-95.90
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3701.40	-49.70	-13.00	-36.70	2.29 V	13	46.20	-95.90

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 26365 (1882.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3765.00	-46.80	-13.00	-33.80	2.75 H	160	49.00	-95.80
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3765.00	-49.70	-13.00	-36.70	2.23 V	9	46.10	-95.80

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 26683 (1914.3MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3828.60	-46.20	-13.00	-33.20	2.72 H	162	49.45	-95.65
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3828.60	-49.60	-13.00	-36.60	2.26 V	13	46.05	-95.65

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 25, Channel Bandwidth 5MHz

Mode	TX channel 26065 (1852.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3705.00	-46.90	-13.00	-33.90	2.74 H	162	49.00	-95.90
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3705.00	-50.30	-13.00	-37.30	2.30 V	14	45.60	-95.90

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 26365 (1882.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3765.00	-47.10	-13.00	-34.10	2.66 H	157	48.70	-95.80
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3765.00	-50.30	-13.00	-37.30	2.26 V	13	45.50	-95.80

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 26665 (1912.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3825.00	-46.70	-13.00	-33.70	2.71 H	162	48.94	-95.64
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3825.00	-49.80	-13.00	-36.80	2.30 V	14	45.84	-95.64

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 25, Channel Bandwidth 20MHz

Mode	TX channel 26140 (1860.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	-46.40	-13.00	-33.40	2.69 H	160	49.49	-95.89
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	-50.20	-13.00	-37.20	2.28 V	8	45.69	-95.89

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 26365 (1882.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3765.00	-46.90	-13.00	-33.90	2.72 H	160	48.90	-95.80
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3765.00	-50.20	-13.00	-37.20	2.27 V	8	45.60	-95.80

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 26590 (1905.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3810.00	-46.30	-13.00	-33.30	2.67 H	161	49.35	-95.65
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3810.00	-49.60	-13.00	-36.60	2.29 V	14	46.05	-95.65

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

External Antenna

Below 1GHz

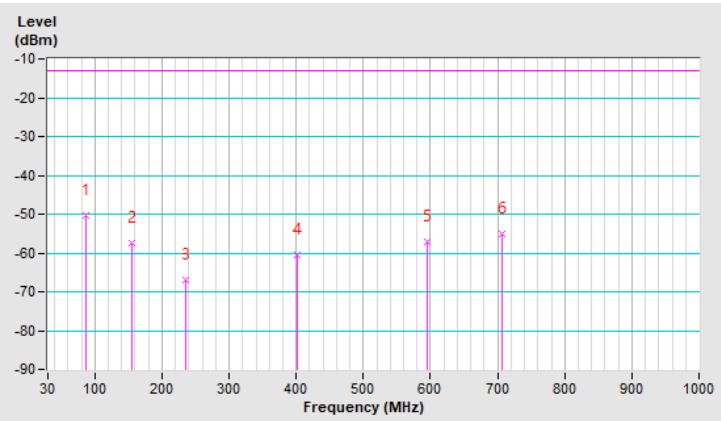
WCDMA Band 2

Mode	TX channel 9262 (1852.4MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	87.23	-50.27	-13.00	-37.27	1.00 H	265	59.33	-109.60
2	156.10	-57.32	-13.00	-44.32	1.00 H	231	46.17	-103.49
3	235.64	-66.93	-13.00	-53.93	1.00 H	140	37.91	-104.84
4	402.48	-60.47	-13.00	-47.47	1.00 H	17	39.52	-99.99
5	595.51	-57.01	-13.00	-44.01	1.00 H	327	38.89	-95.90
6	707.06	-55.20	-13.00	-42.20	1.00 H	43	38.84	-94.04

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

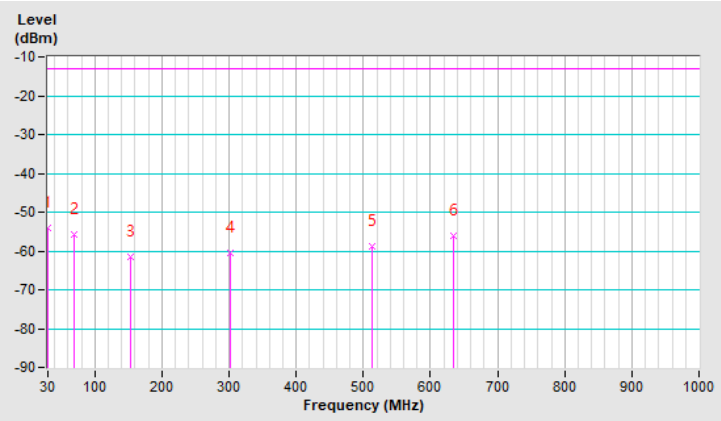


Mode	TX channel 9262 (1852.4MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.00	-53.98	-13.00	-40.98	1.00 V	5	51.60	-105.58
2	68.80	-55.79	-13.00	-42.79	1.00 V	121	50.13	-105.92
3	154.16	-61.44	-13.00	-48.44	1.00 V	138	41.97	-103.41
4	301.60	-60.62	-13.00	-47.62	1.00 V	128	41.35	-101.97
5	513.06	-58.68	-13.00	-45.68	1.00 V	329	38.91	-97.59
6	634.31	-56.07	-13.00	-43.07	1.00 V	244	38.99	-95.06

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



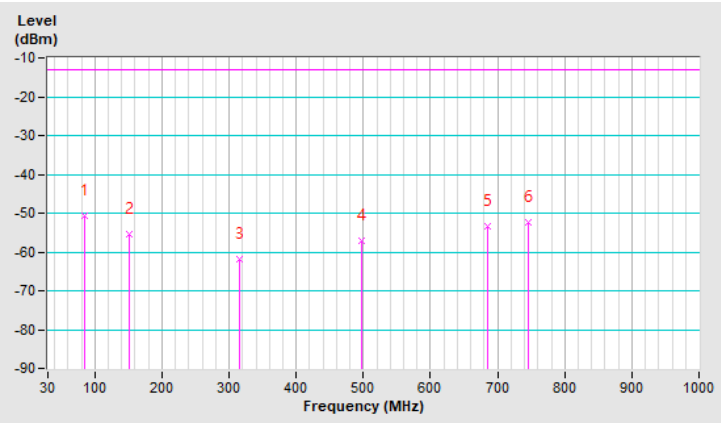
LTE Band 2, Channel Bandwidth 5MHz

Mode	TX channel 19175 (1907.5MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	85.29	-50.74	-13.00	-37.74	1.00 H	25	58.69	-109.43
2	152.22	-55.53	-13.00	-42.53	1.00 H	96	48.03	-103.56
3	315.18	-61.94	-13.00	-48.94	1.00 H	9	39.64	-101.58
4	497.54	-56.95	-13.00	-43.95	1.00 H	167	41.01	-97.96
5	684.75	-53.47	-13.00	-40.47	1.00 H	93	40.93	-94.40
6	744.89	-52.31	-13.00	-39.31	1.00 H	137	40.74	-93.05

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

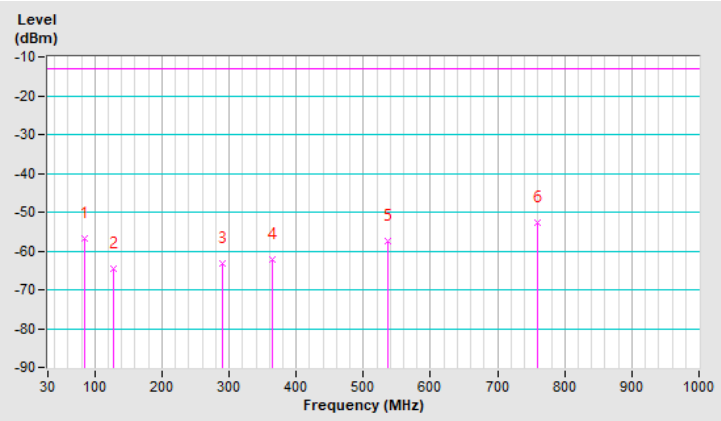


Mode	TX channel 19175 (1907.5MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	84.32	-56.69	-13.00	-43.69	1.00 V	295	52.60	-109.29
2	127.00	-64.72	-13.00	-51.72	1.00 V	154	40.68	-105.40
3	290.93	-63.25	-13.00	-50.25	1.00 V	14	39.01	-102.26
4	364.65	-62.20	-13.00	-49.20	1.00 V	256	38.42	-100.62
5	537.31	-57.31	-13.00	-44.31	1.00 V	27	40.02	-97.33
6	759.44	-52.64	-13.00	-39.64	1.00 V	11	40.04	-92.68

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



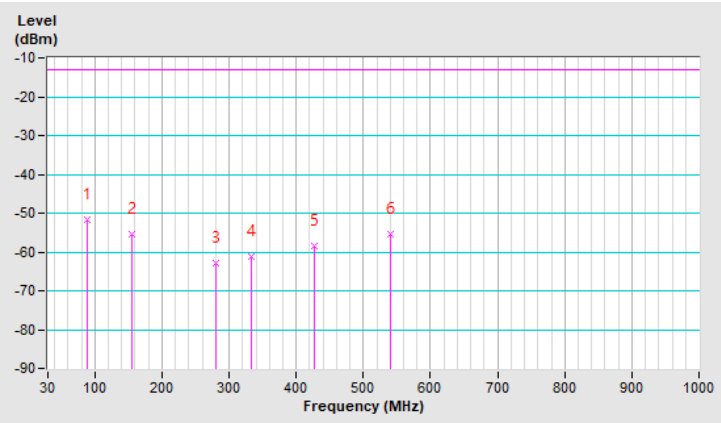
LTE Band 25, Channel Bandwidth 1.4MHz

Mode	TX channel 26683 (1914.3MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	88.20	-51.82	-13.00	-38.82	1.00 H	21	57.80	-109.62
2	156.10	-55.59	-13.00	-42.59	1.00 H	208	47.90	-103.49
3	281.23	-62.80	-13.00	-49.80	1.00 H	118	39.68	-102.48
4	333.61	-61.05	-13.00	-48.05	1.00 H	272	40.18	-101.23
5	427.70	-58.59	-13.00	-45.59	1.00 H	254	40.69	-99.28
6	541.19	-55.55	-13.00	-42.55	1.00 H	307	41.69	-97.24

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

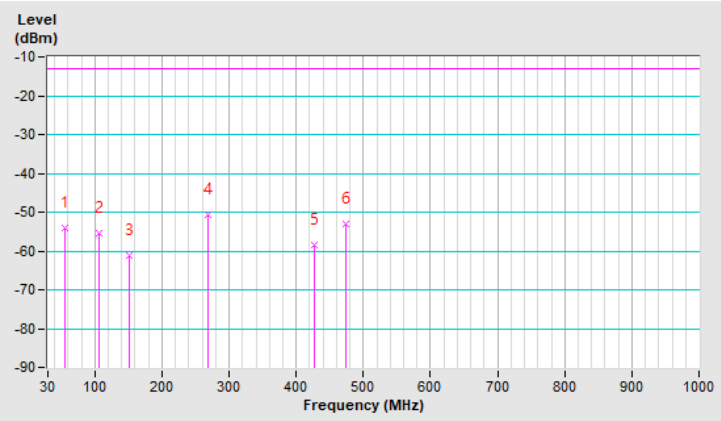


Mode	TX channel 26683 (1914.3MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	56.19	-53.98	-13.00	-40.98	1.00 V	57	50.36	-104.34
2	105.66	-55.54	-13.00	-42.54	1.00 V	145	51.89	-107.43
3	151.25	-61.27	-13.00	-48.27	1.00 V	135	42.32	-103.59
4	268.62	-50.63	-13.00	-37.63	1.00 V	129	52.36	-102.99
5	426.73	-58.54	-13.00	-45.54	1.00 V	125	40.78	-99.32
6	473.29	-53.14	-13.00	-40.14	1.00 V	145	45.15	-98.29

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



Above 1GHz
WCDMA Band 2

Mode	TX channel 9262 (1852.4MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3704.80	-51.10	-13.00	-38.10	3.49 H	33	44.80	-95.90
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3704.80	-50.60	-13.00	-37.60	3.32 V	89	45.30	-95.90

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 9400 (1880.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-50.70	-13.00	-37.70	3.48 H	32	45.13	-95.83
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-50.30	-13.00	-37.30	3.28 V	92	45.53	-95.83

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 9538 (1907.6MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3815.20	-50.82	-13.00	-37.82	3.51 H	31	44.82	-95.64
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3815.20	-50.80	-13.00	-37.80	3.29 V	88	44.84	-95.64

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 2, Channel Bandwidth 1.4MHz

Mode	TX channel 18607 (1850.7MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3701.40	-50.10	-13.00	-37.10	1.00 H	59	45.80	-95.90
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3701.40	-51.10	-13.00	-38.10	1.65 V	59	44.80	-95.90

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 18900 (1880.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-50.20	-13.00	-37.20	1.01 H	57	45.63	-95.83
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-51.00	-13.00	-38.00	1.62 V	57	44.83	-95.83

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 19193 (1909.3MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3818.60	-50.60	-13.00	-37.60	1.00 H	62	45.04	-95.64
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3818.60	-50.70	-13.00	-37.70	1.62 V	54	44.94	-95.64

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 2, Channel Bandwidth 5MHz

Mode	TX channel 18625 (1852.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3705.00	-50.10	-13.00	-37.10	1.01 H	57	45.80	-95.90
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3705.00	-51.20	-13.00	-38.20	1.56 V	57	44.70	-95.90

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 18900 (1880.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-50.50	-13.00	-37.50	1.09 H	60	45.33	-95.83
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-51.20	-13.00	-38.20	1.65 V	54	44.63	-95.83

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 19175 (1907.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3815.00	-50.60	-13.00	-37.60	1.06 H	56	45.04	-95.64
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3815.00	-50.30	-13.00	-37.30	1.65 V	54	45.34	-95.64

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 2, Channel Bandwidth 20MHz

Mode	TX channel 18700 (1860.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	-50.20	-13.00	-37.20	1.06 H	56	45.69	-95.89
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	-51.00	-13.00	-38.00	1.55 V	57	44.89	-95.89

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 18900 (1880.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-50.70	-13.00	-37.70	1.09 H	59	45.13	-95.83
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-50.40	-13.00	-37.40	1.64 V	55	45.43	-95.83

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 19100 (1900.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3800.00	-50.00	-13.00	-37.00	1.04 H	58	45.64	-95.64
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3780.00	-50.50	-13.00	-37.50	1.57 V	55	45.23	-95.73

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 25, Channel Bandwidth 1.4MHz

Mode	TX channel 26047 (1850.7MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3701.40	-51.70	-13.00	-38.70	1.09 H	56	44.20	-95.90
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3701.40	-52.10	-13.00	-39.10	1.60 V	57	43.80	-95.90

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 26365 (1882.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3765.00	-51.60	-13.00	-38.60	1.09 H	57	44.20	-95.80
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3765.00	-52.20	-13.00	-39.20	1.66 V	63	43.60	-95.80

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 26683 (1914.3MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3828.60	-51.20	-13.00	-38.20	1.01 H	59	44.45	-95.65
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3828.60	-52.70	-13.00	-39.70	1.64 V	61	42.95	-95.65

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 25, Channel Bandwidth 5MHz

Mode	TX channel 26065 (1852.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3705.00	-51.70	-13.00	-38.70	1.00 H	60	44.20	-95.90
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3705.00	-52.00	-13.00	-39.00	1.65 V	60	43.90	-95.90

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 26365 (1882.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3765.00	-51.80	-13.00	-38.80	1.06 H	63	44.00	-95.80
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3765.00	-52.30	-13.00	-39.30	1.66 V	60	43.50	-95.80

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 26665 (1912.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3825.00	-51.40	-13.00	-38.40	1.00 H	63	44.24	-95.64
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3825.00	-52.50	-13.00	-39.50	1.62 V	59	43.14	-95.64

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 25, Channel Bandwidth 20MHz

Mode	TX channel 26140 (1860.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	-51.30	-13.00	-38.30	1.09 H	62	44.59	-95.89
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	-52.20	-13.00	-39.20	1.64 V	59	43.69	-95.89

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 26365 (1882.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3765.00	-51.20	-13.00	-38.20	1.02 H	57	44.60	-95.80
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3765.00	-52.20	-13.00	-39.20	1.62 V	59	43.60	-95.80

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 26590 (1905.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3810.00	-51.30	-13.00	-38.30	1.04 H	63	44.35	-95.65
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3810.00	-52.00	-13.00	-39.00	1.62 V	58	43.65	-95.65

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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