



FCC TEST REPORT FOR

Mulberry tech group LLC

Mobile phone

Test Model: F31tx

Additional Model No.: Please Refer to Page 6

Prepared for : Mulberry tech group LLC
Address : 108 Wall st,lakewood,New Jersey,08701,USA
Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : June 24, 2025
Number of tested samples : 2
Sample No. : A250620059-1, A250620059-2
Serial number : Prototype
Date of Test : June 24, 2025 ~ July 02, 2025
Date of Report : July 03, 2025



**FCC PART 22/24/27 TEST REPORT**
FCC Part 22H/Part 24E/Part 27**Report Reference No. :** LCSA06205036EJ**FCC ID. :** 2A6B4-F31TX**Date of Issue..... :** July 03, 2025**Testing Laboratory Name :** Shenzhen LCS Compliance Testing Laboratory Ltd.Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park
Yabianxueziwei, Shajing Street, Baoan District, Shenzhen,
518000, China**Applicant's name :** Mulberry tech group LLC

Address : 108 Wall st,lakewood,New Jersey,08701,USA

Test specification..... :**FCC CFR Title 47 Part 2, Part 22H, Part 24E, Part 27**Standard : **TIA-603-E: 2016****KDB971168 D01 Power Meas License Digital Systems v03r01**

Test Report Form No : LCSEMC-1.0

TRF Originator : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF : Dated 2011-03

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Test item description..... : Mobile phone

Trade Mark..... : Fig

Test Model : F31tx

Modulation Type : QPSK,16QAM

Ratings : Input: 5V

DC 3.85V by Rechargeable Li-ion Battery, 1600mAh

Result..... : **PASS****Compiled by:**

Jack Liu/Administrator

Supervised by:

Cary Luo/ Technique principal

Approved by:

Gavin Liang/ Manager



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**TEST REPORT****Test Report No. : LCSA06205036EJ**

July 03, 2025

Date of issue

Test Model..... : F31tx

EUT..... : Mobile phone

Applicant..... : Mulberry tech group LLC

Address..... : 108 Wall st,lakewood,New Jersey,08701,USA

Telephone..... : /

Fax..... : /

Manufacturer..... : ShenZhen Lanshuo Communication Equipment Co., Ltd.

Address..... : No.19, Minfu Road, Shajing Town, Bao'an District, Shenzhen, China

Telephone..... : /

Fax..... : /

Factory..... : ShenZhen Lanshuo Communication Equipment Co., Ltd.

Address..... : No.19, Minfu Road, Shajing Town, Bao'an District, Shenzhen, China

Telephone..... : /

Fax..... : /

Test Result:**PASS**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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Revision History

Report Version	Issue Date	Revision Content	Revised By
000	July 03, 2025	Initial Issue	---





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1 TEST STANDARDS

The tests were performed according to following standards:

[FCC Part 22H](#): Cellular Radiotelephone Service

[FCC Part 24E](#): Broadband PCS

[FCC Part 27](#): MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES

[TIA-603-E March 2016](#): Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

[47 CFR FCC Part 15 Subpart B](#): Unintentional Radiators

[FCC Part 2](#): FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS

[ANSI C63.4:2014](#): Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

[FCC KDB971168 D01](#) Power Meas License Digital Systems v03r01



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2 SUMMARY

2.1 Product Description

The **Mulberry tech group LLC**'s Model: F31tx or the "EUT" as referred to in this report; more general information as follows, for more details, refer to the user's manual of the EUT.

EUT	: Mobile phone
Test Model	: F31tx
Additional Model No.	: F31, F72, F72TO
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Ratings	: Input: 5V DC 3.85V by Rechargeable Li-ion Battery, 1600mAh
Hardware Version	: F31-MB-V1.5
Software Version	: F31tx-V01
Bluetooth	:
Frequency Range	: 2402MHz~2480MHz
Channel Number	: 79 channels for Bluetooth V5.0 (DSS) 40 channels for Bluetooth V5.0 (DTS)
Channel Spacing	: 1MHz for Bluetooth V5.0 (DSS) 2MHz for Bluetooth V5.0 (DTS)
Modulation Type	: GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth V5.0 (DSS) GFSK for Bluetooth V5.0 (DTS)
Bluetooth Version	: V5.0
Antenna Description	: PIFA Antenna, 3.88dBi(Max.)
WIFI(2.4G Band)	:
Frequency Range	: 2412MHz~2462MHz
Channel Spacing	: 5MHz
Channel Number	: 11 Channels for 20MHz bandwidth (2412~2462MHz) 7 Channels for 40MHz bandwidth (2422~2452MHz)
Modulation Type	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: PIFA Antenna, 3.88dBi(Max.)
WIFI(5.2G Band)	:
Frequency Range	: 5180MHz~5240MHz
Channel Number	: 4 Channels for 20MHz bandwidth(5180MHz~5240MHz) 2 channels for 40MHz bandwidth(5190MHz~5230MHz)
Modulation Type	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: PIFA Antenna, 0.42dBi(Max.)
WIFI(5.3G Band)	:
Frequency Range	: 5260MHz~5320MHz
Channel Number	: 4 Channels for 20MHz bandwidth(5260MHz~5320MHz) 2 channels for 40MHz bandwidth(5270MHz~5310MHz)
Modulation Type	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: PIFA Antenna, 0.87dBi(Max.)
WIFI(5.5G Band)	:
Frequency Range	: 5500MHz~5700MHz
Channel Number	: 11 Channels for 20MHz bandwidth(5500MHz~5700MHz) 5 Channels for 40MHz bandwidth(5510MHz~5670MHz)





Modulation Type : IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description : PIFA Antenna, 1.72dBi(Max.)

WIFI(5.8G Band)

Frequency Range : 5745MHz~5825MHz
Channel Number : 5 channels for 20MHz bandwidth(5745MHz~5825MHz)
2 channels for 40MHz bandwidth(5755MHz~5795MHz)

Modulation Type : IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description : PIFA Antenna, 2.85dBi(Max.)

2G

Support Band : ☒ GSM 900 (EU-Band) ☒ DCS 1800 (EU-Band)
☒ GSM 850 (U.S.-Band) ☒ PCS 1900 (U.S.-Band)

Release Version : R9

GPRS Class : Class 12

EGPRS Class : Class 12

Type Of Modulation : GMSK for GSM/GPRS; GMSK/8PSK for EGPRS

Antenna Description : PIFA Antenna
0.73dBi (max.) For GSM 850
1.24dBi (max.) For PCS 1900

3G

Support Band : ☒ WCDMA Band I (EU-Band)
☒ WCDMA Band II (U.S.-Band)
☒ WCDMA Band IV (U.S.-Band)
☒ WCDMA Band V (U.S.-Band)
☒ WCDMA Band VIII (EU-Band)

Release Version : R9

Type Of Modulation : QPSK, 16QAM

Antenna Description : PIFA Antenna
1.24dBi (max.) For WCDMA Band II
2.85dBi (max.) For WCDMA Band IV
0.73dBi (max.) For WCDMA Band V

LTE

Support Band : ☒ E-UTRA Band 1(EU-Band)
☒ E-UTRA Band 2(U.S.-Band)
☒ E-UTRA Band 3(EU-Band)
☒ E-UTRA Band 4(U.S.-Band)
☒ E-UTRA Band 5(U.S.-Band)
☒ E-UTRA Band 7(U.S.-Band)
☒ E-UTRA Band 8(EU-Band)
☒ E-UTRA Band 12(U.S.-Band)
☒ E-UTRA Band 13(U.S.-Band)
☒ E-UTRA Band 17(U.S.-Band)
☒ E-UTRA Band 20(EU-Band)
☒ E-UTRA Band 28(EU-Band)
☒ E-UTRA Band 66(U.S.-Band)
☒ E-UTRA Band 71(U.S.-Band)

LTE Release Version : R9

Type Of Modulation : QPSK/16QAM

Antenna Description : PIFA Antenna
1.24dBi (max.) For E-UTRA Band 2
2.85dBi (max.) For E-UTRA Band 4



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0.73dBi (max.) For E-UTRA Band 5
-1.93dBi (max.) For E-UTRA Band 7
-8.62dBi (max.) For E-UTRA Band 12
-7.88dBi (max.) For E-UTRA Band 13
-8.62dBi (max.) For E-UTRA Band 17
2.85dBi (max.) For E-UTRA Band 66
-8.93dBi (max.) For E-UTRA Band 71

Power Class : Class 3

GPS Function : Support and only RX

Extreme temp. Tolerance : -30°C to +50°C

Extreme vol. Limits : 3.3VDC to 4.4VDC (nominal: 3.85VDC)

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.





2.2 Equipment under Test

Power supply system utilised

Power supply voltage	:	☒ 120V / 60 Hz	☐ 115V/60Hz
		☐ 12 V DC	☐ 5.0 V DC
		☐ Other (specified in blank below)	

2.3 Short description of the Equipment under Test (EUT)

2.3.1 GeneralDescription

Mobilephone is subscriber equipment in the BT/BLE/2.4GWIFI/5.2GWIFI/5.3GWIFI/5.5GWIFI/5.8GWIFI/ GSM/WCDMA/LTE system. GSM/GPRS/EGPRS frequency band is Band II/V. The HSPA/UMTS frequency band is Band II/IV/V. LTE frequency band is band 2/4/5/7/12/17/66/71. The HSPA/UMTS frequency band II and Band IV and Band V test data included in this report. The Mobilephone implements such functions as RF signal receiving/transmitting, GSM/GPRS/EGPRS/HSPA/UMTS/LTE protocol processing, video MMS service and etc. Externally it provides SIM card interface.

2.4 Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
SHENZHEN TIANYIN ELECTRONICS CO., LTD	Power Adapter	TPA-46050200UU	--	FCC

Note: The adapter is supplied by lab and only use tested.

2.5 External I/O Port

I/O Port Description	Quantity	Cable
Type-C USB Port	1	N/A

2.6 Normal Accessory setting

Fully charged battery was used during the test.

2.7 Test Sample

The application provides 2 samples to meet requirement;

Sample Number	Description
Sample 1(A250620059-1)	Engineer sample – continuous transmit
Sample 2(A250620059-2)	Normal sample – Intermittent transmit





2.8 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- - supplied by the lab

○	Power Cable	Length (m) :	/
		Shield :	/
		Detachable :	/
○	Multimeter	Manufacturer :	/
		Model No. :	/

2.9 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: 2A6B4-F31TX filing to comply with FCC Part 22, Part 24 and Part 27 Rules

2.10 Modifications

No modifications were implemented to meet testing criteria.

2.11 General Test Conditions/Configurations

2.9.1 Test Environment

EnvironmentParameter	SelectedValuesDuringTests	
Relative Humidity	Ambient	
Temperature	TN	Ambient
Voltage	VL	DC 3.3V
	VN	DC 3.85V
	VH	DC 4.4V

NOTE:VL=lower extreme testvoltage VN=nominal voltage
VH=upper extreme testvoltage TN=normal temperature





3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen LCS Compliance Testing Laboratory Ltd

101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

The sites are constructed in conformance with the requirements of ANSI C63.4 (2014) and CISPR Publication 22.

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

3.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

3.4 Test Description

Band 2 (1850-1910MHz pairedwith 1930-1990MHz)

Test Item	FCC Rule No.	Requirements	Verdict
Effective(Isotropic) Radiated Output Power	§2.1046, §24.232	EIRP ≤ 2W	PASS
Field Strength of Spurious Radiation	§2.1053, §24.238	≤ -13dBm/1MHz.	PASS

NOTE 1:For the verdict, the“N/A”denotes“not applicable”,the“N/T”de notes “not tested”.



**Band 4 (1710-1755MHz pairedwith 2110-2155MHz)**

Test Item	FCC RuleNo.	Requirements	Verdict
Effective(Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)	EIRP ≤ 1W;	PASS
Radiated spurious emission	§2.1053, §27.53(h)	≤ -13dBm/1MHz.	PASS
NOTE 1: For the verdict, the "N/A" denotes "not applicable", the "N/T" de notes "not tested"			

Band 5 (824-849MHz pairedwith 869-894MHz)

Test Item	FCC Rule No.	Requirements	Verdict
Effective(Isotropic) Radiated Output Power	§2.1046, §22.913	FCC: ERP ≤ 7W.	Pass
Field Strength of Spurious Radiation	§2.1053, §22.917	FCC: ≤ -13dBm/100kHz.	Pass
NOTE 1:For the verdict, the"N/A"denotes"not applicable",the"N/T"de notes "not tested".			

Band 7 (2500-2570MHz pairedwith 2620-2690MHz)

Test Item	FCC Rule No.	Requirements	Verdict
Effective(Isotropic) Radiated Output Power	§2.1046, §27.50(h)	FCC: EIRP ≤ 2W.	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(m)	More details specified in §27.53(m)(4)	Pass
NOTE 1:For the verdict, the"N/A"denotes"not applicable",the"N/T"de notes "not tested".			

Band 12 (699-716MHz paired with 729-746MHz)

Test Item	FCC Rule No.	Requirements	Verdict
Effective(Isotropic) Radiated Power Output Data	§2.1046, §27.50(c)	ERP ≤ 3W;	PASS
Radiatedspurious emission	§2.1053, §27.53(g)	≤ -13dBm/100KHz.	PASS
NOTE 1:For the verdict, the"N/A"denotes"not applicable",the"N/T"de notes "not tested".			

Band 13 (777-787MHz paired with 746-756MHz)

Test Item	FCC Rule No.	Requirements	Verdict
Effective(Isotropic) Radiated Power Output Data	§2.1046, §27.50(b)	ERP ≤ 3W;	PASS
Radiatedspurious emission	§2.1053, §27.53(c)	≤ -13dBm/100KHz.	PASS
NOTE 1:For the verdict, the"N/A"denotes"not applicable",the"N/T"de notes "not tested".			



**Band 17(704-716MHz pairedwith 734-746MHz)**

Test Item	FCC Rule No.	Requirements	Verdict
Effective(Isotropic) Radiated Power Output Data	§2.1046, §27.50(b)	ERP ≤ 3W;	PASS
Radiated spurious emission	§2.1053, §27.53(c)	≤ -13dBm/100KHz.	PASS
NOTE 1:For the verdict, the“N/A”denotes“not applicable”,the“N/T”de notes “not tested”.			



**Band 66 (1710-1780MHz pairedwith 2110-2200MHz)**

Test Item	FCC RuleNo.	Requirements	Verdict
Effective(Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)	EIRP ≤ 1W;	PASS
Radiated spurious emission	§2.1053, §27.53(g)	≤ -13dBm/1MHz.	PASS
NOTE 1: For the verdict, the "N/A" denotes "not applicable", the "N/T" de notes "not tested"			

Band 71 (663-698MHz pairedwith 617-652MHz)

Test Item	FCC RuleNo.	Requirements	Verdict
Effective(Isotropic) Radiated Power Output Data	§2.1046, §27.50(c)	EIRP ≤ 3W;	PASS
Radiated spurious emission	§2.1053, §27.53(g)	≤ -13dBm/1MHz.	PASS
NOTE 1: For the verdict, the "N/A" denotes "not applicable", the "N/T" de notes "not tested"			





3.5 Equipments Used during the Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Power Meter	R&S	NRVS	100444	2025-05-22	2026-05-21
2	Power Sensor	R&S	NRV-Z81	100458	2025-05-22	2026-05-21
3	Power Sensor	R&S	NRV-Z32	10057	2025-05-22	2026-05-21
4	LTE Test Software	Tonscend	JS1120-1	N/A	N/A	N/A
5	RF Control Unit	Tonscend	JS0806-1	158060009	2024-11-08	2025-11-07
6	MXA Signal Analyzer	Agilent	N9020A	MY51250905	2024-10-08	2025-10-07
7	WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW 500	103818	2025-05-22	2026-05-21
8	DC Power Supply	Agilent	E3642A	N/A	2024-10-08	2025-10-07
9	EMI Test Software	AUDIX	E3	/	N/A	N/A
10	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2025-05-22	2026-05-21
11	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
12	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2024-07-13	2027-07-12
13	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2024-08-03	2027-08-02
14	By-log Antenna	SCHWARZBECK	VULB9163	9163-471	2024-08-03	2027-08-02
15	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2024-07-13	2027-07-12
16	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1926	2024-07-13	2027-07-12
17	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2024-07-13	2027-07-12
18	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	792	2024-07-13	2027-07-12
19	Broadband Preamplifier	SCHWARZBECK	BBV9719	9719-025	2024-07-30	2027-07-29
20	EMI Test Receiver	R&S	ESR 7	101181	2025-05-22	2026-05-21
21	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2025-05-22	2026-05-21
22	Low-frequency amplifier	SchwarzZBECK	BBV9745	00253	2024-10-08	2025-10-07
23	High-frequency amplifier	JS Denki Pte	PA0118-43	JSPA21009	2024-10-08	2025-10-07
24	6dB Attenuator	/	100W/6dB	1172040	2025-05-22	2026-05-21
25	3dB Attenuator	/	2N-3dB	/	2024-10-08	2025-10-07
26	Temperature & Humidity Chamber	Baro	/	/	2025-06-04	2026-06-03
27	EMI Test Software	Farad	EZ	/	N/A	N/A
28	RADIO COMMUNICATION TESTER	R&S	CMU 200	105988	2025-05-22	2026-05-21
29	Antenna Mast	Max-Full	MFA-515BSN	1308572	N/A	N/A





3.6 Measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to ETSI TR 100 028 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics" and is documented in the Shenzhen LCS Compliance Testing Laboratory Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen LCS Compliance Testing Laboratory Ltd. is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	3.10 dB	(1)
Radiated Emission	1~18GHz	3.80 dB	(1)
Radiated Emission	18-40GHz	3.90 dB	(1)
Conducted Disturbance	0.15~30MHz	1.63 dB	(1)
Conducted Power	9KHz~18GHz	0.61 dB	(1)
Spurious RF Conducted Emission	9KHz~40GHz	1.22 dB	(1)
Band Edge Compliance of RF Emission	9KHz~40GHz	1.22 dB	(1)
Occupied Bandwidth	9KHz~40GHz	-	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.





4 TEST CONDITIONS AND RESULTS

4.1 Output Power

4.1.1. Radiated Output Power

LIMIT

This is the test for the maximum radiated power from the EUT.

Per §22.913(2) Extend coverage on a secondary basis into cellular unserved areas, as those areas are defined in §22.949, the ERP of base transmitters and cellular repeaters of such systems must not exceed 1000 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

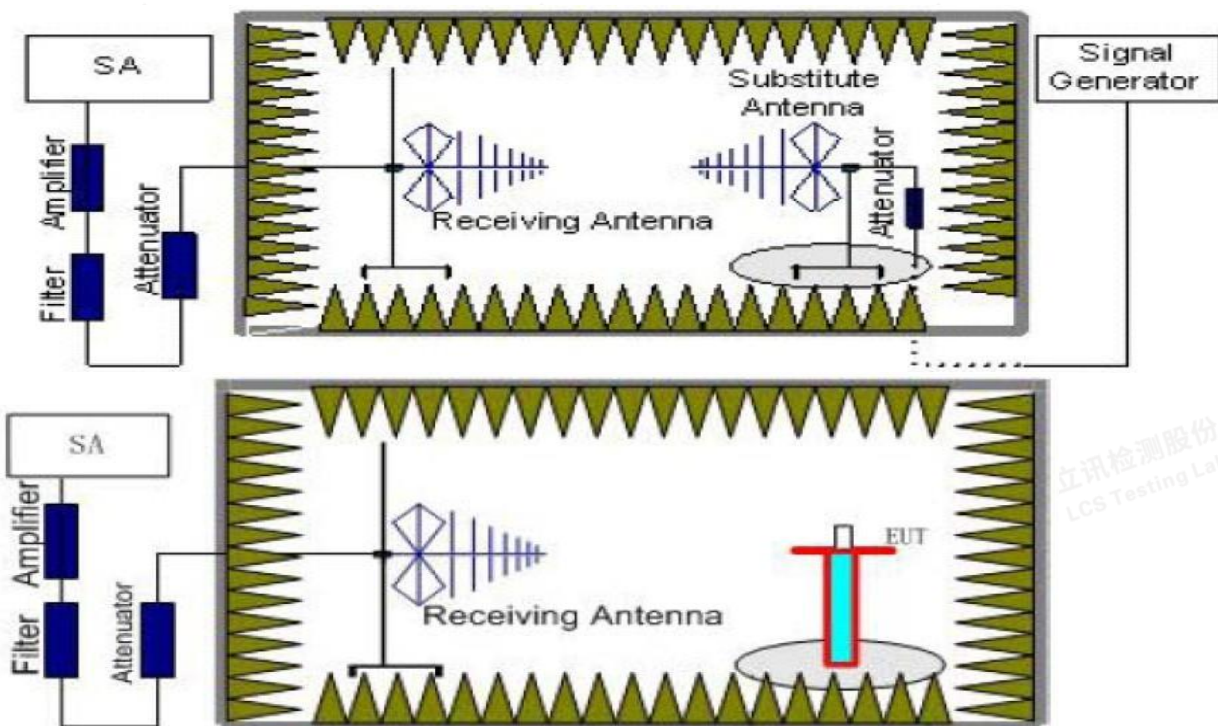
Rule Part 24.232(c) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power" and 24.232(e) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage."

Per Part 27.50(d) (4) specifies, Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755MHz band are limited to 1W EIRP. Fixed stations operating in this band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in this band must employ a means for limiting power to the minimum necessary for successful communications.

Per Part 27.50(c) (10) specifies, Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

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

TEST CONFIGURATION



TEST PROCEDURE

1. EUT was placed on a 1.50 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated





emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.

- A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz, And the maximum value of the receiver should be recorded as (P_r).
- The EUT shall be replaced by a substitution antenna. In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
- A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (P_{cl}), the Substitution Antenna Gain (G_a) and the Amplifier Gain (P_{Ag}) should be recorded after test. The measurement results are obtained as described below:

$$\text{Power(EIRP)} = P_{Mea} + P_{Ag} - P_{cl} + G_a$$
- This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
- ERP can be calculated from EIRP by subtracting the gain of the dipole, $ERP = EIRP - 2.15\text{dBi}$.

TEST RESULTS

Radiated Measurement:

Remark:

- We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 7, LTE FDD Band 12, LTE FDD Band 13, LTE FDD Band 17, LTE FDD Band 66, LTE FDD Band 71 recorded worst case for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 7, LTE FDD Band 12, LTE FDD Band 13, LTE FDD Band 17, LTE FDD Band 66, LTE FDD Band 71.
- $EIRP = P_{Mea}(\text{dBm}) - P_{cl}(\text{dB}) + P_{Ag}(\text{dB}) + G_a(\text{dBi})$
- $ERP = EIRP - 2.15\text{dBi}$ as EIRP by subtracting the gain of the dipole.
- Margin = Emission Level - Limit
- We tested the worst-case records for H and V directions, and only the worst-case records for V direction were recorded in the report.

LTE FDD Band 2 Channel Bandwidth 1.4MHz_QPSK

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	P_{Ag} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1850.7	-20.38	4.03	8.38	35.51	19.48	33.01	-13.53	V
1880.0	-20.17	4.08	8.33	35.56	19.64	33.01	-13.37	V
1909.3	-20.21	4.14	8.26	35.63	19.54	33.01	-13.47	V

LTE FDD Band 2 Channel Bandwidth 3MHz_QPSK

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	P_{Ag} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1851.5	-20.51	4.03	8.38	35.51	19.35	33.01	-13.66	V
1880.0	-20.74	4.08	8.33	35.56	19.07	33.01	-13.94	V
1908.5	-20.52	4.14	8.26	35.63	19.23	33.01	-13.78	V



*LTE FDD Band 2 Channel Bandwidth 5MHz_QPSK*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1852.5	-20.42	4.03	8.38	35.51	19.44	33.01	-13.57	V
1880.0	-20.84	4.08	8.33	35.56	18.97	33.01	-14.04	V
1907.5	-20.62	4.14	8.26	35.63	19.13	33.01	-13.88	V

LTE FDD Band 2 Channel Bandwidth 10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1855.0	-21.83	4.03	8.38	35.51	18.03	33.01	-14.98	V
1880.0	-21.07	4.08	8.33	35.56	18.74	33.01	-14.27	V
1905.0	-21.23	4.14	8.26	35.63	18.52	33.01	-14.49	V

LTE FDD Band 2 Channel Bandwidth 15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1857.5	-22.17	4.03	8.38	35.51	17.69	33.01	-15.32	V
1880.0	-22.29	4.08	8.33	35.56	17.52	33.01	-15.49	V
1902.5	-21.71	4.14	8.26	35.63	18.04	33.01	-14.97	V

LTE FDD Band 2 Channel Bandwidth 20MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1860.0	-22.37	4.03	8.38	35.51	17.49	33.01	-15.52	V
1880.0	-22.26	4.08	8.33	35.56	17.55	33.01	-15.46	V
1900.0	-22.28	4.14	8.26	35.63	17.47	33.01	-15.54	V

LTE FDD Band 2 Channel Bandwidth 1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1850.7	-20.28	4.03	8.38	35.51	19.58	33.01	-13.43	V
1880.0	-20.65	4.08	8.33	35.56	19.16	33.01	-13.85	V
1909.3	-20.82	4.14	8.26	35.63	18.93	33.01	-14.08	V

LTE FDD Band 2 Channel Bandwidth 3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1851.5	-21.35	4.03	8.38	35.51	18.51	33.01	-14.50	V
1880.0	-21.39	4.08	8.33	35.56	18.42	33.01	-14.59	V
1908.5	-20.87	4.14	8.26	35.63	18.88	33.01	-14.13	V



*LTE FDD Band 2 Channel Bandwidth 5MHz_16QAM*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1852.5	-21.02	4.03	8.38	35.51	18.84	33.01	-14.17	V
1880.0	-21.25	4.08	8.33	35.56	18.56	33.01	-14.45	V
1907.5	-21.09	4.14	8.26	35.63	18.66	33.01	-14.35	V

LTE FDD Band 2 Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1855.0	-22.27	4.03	8.38	35.51	17.59	33.01	-15.42	V
1880.0	-21.51	4.08	8.33	35.56	18.30	33.01	-14.71	V
1905.0	-22.32	4.14	8.26	35.63	17.43	33.01	-15.58	V

LTE FDD Band 2 Channel Bandwidth 15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1857.5	-22.25	4.03	8.38	35.51	17.61	33.01	-15.40	V
1880.0	-22.23	4.08	8.33	35.56	17.58	33.01	-15.43	V
1902.5	-22.80	4.14	8.26	35.63	16.95	33.01	-16.06	V

LTE FDD Band 2 Channel Bandwidth 20MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1860.0	-23.32	4.03	8.38	35.51	16.54	33.01	-16.47	V
1880.0	-23.02	4.08	8.33	35.56	16.79	33.01	-16.22	V
1900.0	-23.19	4.14	8.26	35.63	16.56	33.01	-16.45	V

LTE FDD Band 4 Channel Bandwidth 1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1710.7	-19.73	3.93	9.05	34.96	20.35	30.00	-9.65	V
1732.5	-19.56	3.93	8.89	35.01	20.41	30.00	-9.59	V
1754.3	-19.73	3.94	8.76	35.08	20.17	30.00	-9.83	V

LTE FDD Band 4 Channel Bandwidth 3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1711.5	-19.73	3.93	9.05	34.96	20.35	30.00	-9.65	V
1732.5	-20.12	3.93	8.89	35.01	19.85	30.00	-10.15	V
1753.5	-20.01	3.94	8.76	35.08	19.89	30.00	-10.11	V



*LTE FDD Band 4_Channel Bandwidth 5MHz_QPSK*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1712.5	-19.49	3.93	9.05	34.96	20.59	30.00	-9.41	V
1732.5	-19.85	3.93	8.89	35.01	20.12	30.00	-9.88	V
1752.5	-19.25	3.94	8.76	35.08	20.65	30.00	-9.35	V

LTE FDD Band 4_Channel Bandwidth 10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1715.0	-19.89	3.93	9.05	34.96	20.19	30.00	-9.81	V
1732.5	-19.73	3.93	8.89	35.01	20.24	30.00	-9.76	V
1750.0	-20.28	3.94	8.76	35.08	19.62	30.00	-10.38	V

LTE FDD Band 4_Channel Bandwidth 15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1717.5	-18.99	3.93	9.05	34.96	21.09	30.00	-8.91	V
1732.5	-19.85	3.93	8.89	35.01	20.12	30.00	-9.88	V
1747.5	-18.96	3.94	8.76	35.08	20.94	30.00	-9.06	V

LTE FDD Band 4_Channel Bandwidth 20MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1720.0	-19.57	3.93	9.05	34.96	20.51	30.00	-9.49	V
1732.5	-20.01	3.93	8.89	35.01	19.96	30.00	-10.04	V
1745.0	-19.63	3.94	8.76	35.08	20.27	30.00	-9.73	V

LTE FDD Band 4_Channel Bandwidth 1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1710.7	-19.47	3.93	9.05	34.96	20.61	30.00	-9.39	V
1732.5	-19.43	3.93	8.89	35.01	20.54	30.00	-9.46	V
1754.3	-19.08	3.94	8.76	35.08	20.82	30.00	-9.18	V

LTE FDD Band 4_Channel Bandwidth 3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1711.5	-20.21	3.93	9.05	34.96	19.87	30.00	-10.13	V
1732.5	-19.75	3.93	8.89	35.01	20.22	30.00	-9.78	V
1753.5	-19.43	3.94	8.76	35.08	20.47	30.00	-9.53	V



**LTE FDD Band 4_Channel Bandwidth 5MHz_16QAM**

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1712.5	-19.49	3.93	9.05	34.96	20.59	30.00	-9.41	V
1732.5	-19.71	3.93	8.89	35.01	20.26	30.00	-9.74	V
1752.5	-18.99	3.94	8.76	35.08	20.91	30.00	-9.09	V

LTE FDD Band 4_Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1715.0	-20.04	3.93	9.05	34.96	20.04	30.00	-9.96	V
1732.5	-19.54	3.93	8.89	35.01	20.43	30.00	-9.57	V
1750.0	-19.81	3.94	8.76	35.08	20.09	30.00	-9.91	V

LTE FDD Band 4_Channel Bandwidth 15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1717.5	-19.80	3.93	9.05	34.96	20.28	30.00	-9.72	V
1732.5	-19.36	3.93	8.89	35.01	20.61	30.00	-9.39	V
1747.5	-19.52	3.94	8.76	35.08	20.38	30.00	-9.62	V

LTE FDD Band 4_Channel Bandwidth 20MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1720.0	-19.38	3.93	9.05	34.96	20.70	30.00	-9.30	V
1732.5	-19.44	3.93	8.89	35.01	20.53	30.00	-9.47	V
1745.0	-19.78	3.94	8.76	35.08	20.12	30.00	-9.88	V

LTE FDD Band 5_Channel Bandwidth 1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Aq} (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
824.70	-16.20	3.45	8.45	2.15	33.79	20.44	38.45	-18.01	V
836.50	-16.43	3.49	8.45	2.15	33.85	20.23	38.45	-18.22	V
848.30	-16.97	3.55	8.36	2.15	33.88	19.57	38.45	-18.88	V

LTE FDD Band 5_Channel Bandwidth 3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Aq} (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
825.50	-16.80	3.45	8.45	2.15	33.79	19.84	38.45	-18.61	V
836.50	-16.60	3.49	8.45	2.15	33.85	20.06	38.45	-18.39	V
847.50	-16.57	3.55	8.36	2.15	33.88	19.97	38.45	-18.48	V



*LTE FDD Band 5_Channel Bandwidth 5MHz_QPSK*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Aq} (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
826.50	-16.85	3.45	8.45	2.15	33.79	19.79	38.45	-18.66	V
836.50	-16.87	3.49	8.45	2.15	33.85	19.79	38.45	-18.66	V
846.50	-16.79	3.55	8.36	2.15	33.88	19.75	38.45	-18.70	V

LTE FDD Band 5_Channel Bandwidth 10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Aq} (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
829.00	-16.03	3.45	8.45	2.15	33.79	20.61	38.45	-17.84	V
836.50	-16.88	3.49	8.45	2.15	33.85	19.78	38.45	-18.67	V
844.00	-16.09	3.55	8.36	2.15	33.88	20.45	38.45	-18.00	V

LTE FDD Band 5_Channel Bandwidth 1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Aq} (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
824.70	-17.94	3.45	8.45	2.15	33.79	18.70	38.45	-19.75	V
836.50	-17.65	3.49	8.45	2.15	33.85	19.01	38.45	-19.44	V
848.30	-17.74	3.55	8.36	2.15	33.88	18.80	38.45	-19.65	V

LTE FDD Band 5_Channel Bandwidth 3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Aq} (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
825.50	-17.77	3.45	8.45	2.15	33.79	18.87	38.45	-19.58	V
836.50	-17.08	3.49	8.45	2.15	33.85	19.58	38.45	-18.87	V
847.50	-17.49	3.55	8.36	2.15	33.88	19.05	38.45	-19.40	V

LTE FDD Band 5_Channel Bandwidth 5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Aq} (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
826.50	-17.44	3.45	8.45	2.15	33.79	19.20	38.45	-19.25	V
836.50	-17.71	3.49	8.45	2.15	33.85	18.95	38.45	-19.50	V
846.50	-17.23	3.55	8.36	2.15	33.88	19.31	38.45	-19.14	V

LTE FDD Band 5_Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Aq} (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
829.00	-17.25	3.45	8.45	2.15	33.79	19.39	38.45	-19.06	V
836.50	-17.55	3.49	8.45	2.15	33.85	19.11	38.45	-19.34	V
844.00	-17.55	3.55	8.36	2.15	33.88	18.99	38.45	-19.46	V

LTE FDD Band 7_Channel Bandwidth 5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2502.5	-18.77	4.32	6.8	36.14	19.85	33.01	-13.16	V
2535.0	-19.12	4.32	6.61	36.17	19.34	33.01	-13.67	V
2567.5	-19.14	4.33	6.57	36.22	19.32	33.01	-13.69	V



*LTE FDD Band 7_Channel Bandwidth 10MHz_QPSK*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2505.0	-18.53	4.32	6.8	36.14	20.09	33.01	-12.92	V
2535.0	-18.91	4.32	6.61	36.17	19.55	33.01	-13.46	V
2565.0	-19.48	4.33	6.57	36.22	18.98	33.01	-14.03	V

LTE FDD Band 7_Channel Bandwidth 15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2507.5	-18.54	4.32	6.8	36.14	20.08	33.01	-12.93	V
2535.0	-19.44	4.32	6.61	36.17	19.02	33.01	-13.99	V
2562.5	-19.48	4.33	6.57	36.22	18.98	33.01	-14.03	V

LTE FDD Band 7_Channel Bandwidth 20MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2510.0	-19.36	4.32	6.8	36.14	19.26	33.01	-13.75	V
2535.0	-18.54	4.32	6.61	36.17	19.92	33.01	-13.09	V
2560.0	-18.78	4.33	6.57	36.22	19.68	33.01	-13.33	V

LTE FDD Band 7_Channel Bandwidth 5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2502.5	-19.91	4.32	6.8	36.14	18.71	33.01	-14.30	V
2535.0	-19.65	4.32	6.61	36.17	18.81	33.01	-14.20	V
2567.5	-19.74	4.33	6.57	36.22	18.72	33.01	-14.29	V

LTE FDD Band 7_Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2505.0	-20.11	4.32	6.8	36.14	18.51	33.01	-14.50	V
2535.0	-20.07	4.32	6.61	36.17	18.39	33.01	-14.62	V
2565.0	-19.79	4.33	6.57	36.22	18.67	33.01	-14.34	V

LTE FDD Band 7_Channel Bandwidth 15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2507.5	-19.86	4.32	6.8	36.14	18.76	33.01	-14.25	V
2535.0	-19.47	4.32	6.61	36.17	18.99	33.01	-14.02	V
2562.5	-19.95	4.33	6.57	36.22	18.51	33.01	-14.50	V

LTE FDD Band 7_Channel Bandwidth 20MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2510.0	-19.84	4.32	6.8	36.14	18.78	33.01	-14.23	V
2535.0	-20.20	4.32	6.61	36.17	18.26	33.01	-14.75	V
2560.0	-20.21	4.33	6.57	36.22	18.25	33.01	-14.76	V



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*LTE FDD Band 12 Channel Bandwidth 1.4MHz_QPSK*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain (dB)	P _{Aq} (dB)	Correction (dB)	Burst Avergae ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
699.70	-15.09	3.01	8.29	2.15	33.52	21.56	34.77	-13.21	V
707.50	-15.01	3.02	8.29	2.15	33.52	21.63	34.77	-13.14	V
715.30	-14.70	3.06	8.29	2.15	33.52	21.90	34.77	-12.87	V

LTE FDD Band 12 Channel Bandwidth 3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain (dB)	P _{Aq} (dB)	Correction (dB)	Burst Avergae ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
700.50	-15.61	3.01	8.29	2.15	33.52	21.04	34.77	-13.73	V
707.50	-15.45	3.02	8.29	2.15	33.52	21.19	34.77	-13.58	V
714.50	-15.68	3.06	8.29	2.15	33.52	20.92	34.77	-13.85	V

LTE FDD Band 12 Channel Bandwidth 5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain (dB)	P _{Aq} (dB)	Correction (dB)	Burst Avergae ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
701.50	-16.25	3.01	8.29	2.15	33.52	20.40	34.77	-14.37	V
707.50	-16.42	3.02	8.29	2.15	33.52	20.22	34.77	-14.55	V
713.50	-15.99	3.06	8.29	2.15	33.52	20.61	34.77	-14.16	V

LTE FDD Band 12 Channel Bandwidth 10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain (dB)	P _{Aq} (dB)	Correction (dB)	Burst Avergae ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
704.00	-16.48	3.01	8.29	2.15	33.52	20.17	34.77	-14.60	V
707.50	-15.97	3.02	8.29	2.15	33.52	20.67	34.77	-14.10	V
711.00	-16.63	3.06	8.29	2.15	33.52	19.97	34.77	-14.80	V

LTE FDD Band 12 Channel Bandwidth 1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain (dB)	P _{Aq} (dB)	Correction (dB)	Burst Avergae ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
699.70	-15.37	3.01	8.29	2.15	33.52	21.28	34.77	-13.49	V
707.50	-15.86	3.02	8.29	2.15	33.52	20.78	34.77	-13.99	V
715.30	-15.88	3.06	8.29	2.15	33.52	20.72	34.77	-14.05	V

LTE FDD Band 12 Channel Bandwidth 3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain (dB)	P _{Aq} (dB)	Correction (dB)	Burst Avergae ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
700.50	-16.42	3.01	8.29	2.15	33.52	20.23	34.77	-14.54	V
707.50	-16.25	3.02	8.29	2.15	33.52	20.39	34.77	-14.38	V
714.50	-16.13	3.06	8.29	2.15	33.52	20.47	34.77	-14.30	V



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*LTE FDD Band 12_Channel Bandwidth 5MHz_16QAM*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain (dB)	P _{Aq} (dB)	Correction (dB)	Burst Avergae ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
701.50	-16.94	3.01	8.29	2.15	33.52	19.71	34.77	-15.06	V
707.50	-16.64	3.02	8.29	2.15	33.52	20.00	34.77	-14.77	V
713.50	-16.02	3.06	8.29	2.15	33.52	20.58	34.77	-14.19	V

LTE FDD Band 12_Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain (dB)	P _{Aq} (dB)	Correction (dB)	Burst Avergae ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
704.00	-17.43	3.01	8.29	2.15	33.52	19.22	34.77	-15.55	V
707.50	-17.48	3.02	8.29	2.15	33.52	19.16	34.77	-15.61	V
711.00	-17.48	3.06	8.29	2.15	33.52	19.12	34.77	-15.65	V

LTE FDD Band 13_Channel Bandwidth 5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
779.5	-18.50	3.21	9.61	33.89	2.15	19.64	34.77	-15.13	V
782.0	-18.03	3.23	9.52	34.74	2.15	20.85	34.77	-13.92	V
784.5	-18.17	3.25	9.43	34.85	2.15	20.71	34.77	-14.06	V

LTE FDD Band 13_Channel Bandwidth 10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
782.0	-17.59	3.23	9.52	34.74	2.15	21.29	34.77	-13.48	V

LTE FDD Band 13_Channel Bandwidth 5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
779.5	-19.49	3.21	9.61	33.89	2.15	18.65	34.77	-16.12	V
782.0	-19.59	3.23	9.52	34.74	2.15	19.29	34.77	-15.48	V
784.5	-19.78	3.25	9.43	34.85	2.15	19.10	34.77	-15.67	V

LTE FDD Band 13_Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
782.0	-18.69	3.23	9.52	34.74	2.15	20.19	34.77	-14.58	V

LTE FDD Band 17_Channel Bandwidth 5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Aq} (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
706.5	-16.55	3.02	8.29	2.15	33.52	20.09	34.77	-14.68	V
710.0	-16.35	3.06	8.29	2.15	33.52	20.25	34.77	-14.52	V
713.5	-16.27	3.06	8.29	2.15	33.52	20.33	34.77	-14.44	V



**LTE FDD Band 17_Channel Bandwidth 10MHz_QPSK**

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Aq} (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
709.0	-16.76	3.06	8.29	2.15	33.52	19.84	34.77	-14.93	V
710.0	-16.74	3.06	8.29	2.15	33.52	19.86	34.77	-14.91	V
711.0	-16.24	3.06	8.29	2.15	33.52	20.36	34.77	-14.41	V

LTE FDD Band 17_Channel Bandwidth 5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Aq} (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
706.5	-16.81	3.02	8.29	2.15	33.52	19.83	34.77	-14.94	V
710.0	-17.33	3.06	8.29	2.15	33.52	19.27	34.77	-15.50	V
713.5	-17.31	3.06	8.29	2.15	33.52	19.29	34.77	-15.48	V

LTE FDD Band 17_Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Aq} (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
709.0	-16.72	3.06	8.29	2.15	33.52	19.88	34.77	-14.89	V
710.0	-17.47	3.06	8.29	2.15	33.52	19.13	34.77	-15.64	V
711.0	-16.90	3.06	8.29	2.15	33.52	19.70	34.77	-15.07	V

LTE FDD Band 66_Channel Bandwidth 1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1710.7	-19.03	3.93	9.05	34.96	21.05	30.00	-8.95	V
1745.0	-19.58	3.93	8.89	35.01	20.39	30.00	-9.61	V
1779.3	-19.72	3.94	8.76	35.08	20.18	30.00	-9.82	V

LTE FDD Band 66_Channel Bandwidth 3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1711.5	-20.08	3.93	9.05	34.96	20.00	30.00	-10.00	V
1745.0	-20.26	3.93	8.89	35.01	19.71	30.00	-10.29	V
1778.5	-19.75	3.94	8.76	35.08	20.15	30.00	-9.85	V

LTE FDD Band 66_Channel Bandwidth 5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1712.5	-18.97	3.93	9.05	34.96	21.11	30.00	-8.89	V
1745.0	-19.80	3.93	8.89	35.01	20.17	30.00	-9.83	V
1777.5	-19.27	3.94	8.76	35.08	20.63	30.00	-9.37	V



*LTE FDD Band 66_Channel Bandwidth 10MHz_QPSK*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1715.0	-19.68	3.93	9.05	34.96	20.40	30.00	-9.60	V
1745.0	-20.27	3.93	8.89	35.01	19.70	30.00	-10.30	V
1775.0	-20.34	3.94	8.76	35.08	19.56	30.00	-10.44	V

LTE FDD Band 66_Channel Bandwidth 15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1717.5	-19.84	3.93	9.05	34.96	20.24	30.00	-9.76	V
1745.0	-19.07	3.93	8.89	35.01	20.90	30.00	-9.10	V
1772.5	-19.67	3.94	8.76	35.08	20.23	30.00	-9.77	V

LTE FDD Band 66_Channel Bandwidth 20MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1720.0	-20.17	3.93	9.05	34.96	19.91	30.00	-10.09	V
1745.0	-19.58	3.93	8.89	35.01	20.39	30.00	-9.61	V
1770.0	-19.52	3.94	8.76	35.08	20.38	30.00	-9.62	V

LTE FDD Band 66_Channel Bandwidth 1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1710.7	-19.56	3.93	9.05	34.96	20.52	30.00	-9.48	V
1745.0	-18.95	3.93	8.89	35.01	21.02	30.00	-8.98	V
1779.3	-19.16	3.94	8.76	35.08	20.74	30.00	-9.26	V

LTE FDD Band 66_Channel Bandwidth 3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1711.5	-20.13	3.93	9.05	34.96	19.95	30.00	-10.05	V
1745.0	-20.40	3.93	8.89	35.01	19.57	30.00	-10.43	V
1778.5	-20.01	3.94	8.76	35.08	19.89	30.00	-10.11	V

LTE FDD Band 66_Channel Bandwidth 5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1712.5	-19.54	3.93	9.05	34.96	20.54	30.00	-9.46	V
1745.0	-19.23	3.93	8.89	35.01	20.74	30.00	-9.26	V
1777.5	-19.46	3.94	8.76	35.08	20.44	30.00	-9.56	V



*LTE FDD Band 66_Channel Bandwidth 10MHz_16QAM*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1715.0	-19.57	3.93	9.05	34.96	20.51	30.00	-9.49	V
1745.0	-19.55	3.93	8.89	35.01	20.42	30.00	-9.58	V
1775.0	-19.61	3.94	8.76	35.08	20.29	30.00	-9.71	V

LTE FDD Band 66_Channel Bandwidth 15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1717.5	-19.85	3.93	9.05	34.96	20.23	30.00	-9.77	V
1745.0	-19.85	3.93	8.89	35.01	20.12	30.00	-9.88	V
1772.5	-18.95	3.94	8.76	35.08	20.95	30.00	-9.05	V

LTE FDD Band 66_Channel Bandwidth 20MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1720.0	-19.82	3.93	9.05	34.96	20.26	30.00	-9.74	V
1745.0	-19.73	3.93	8.89	35.01	20.24	30.00	-9.76	V
1770.0	-20.31	3.94	8.76	35.08	19.59	30.00	-10.41	V

LTE FDD Band 71_Channel Bandwidth 5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Aq} (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
665.5	-16.12	3.45	8.45	2.15	33.52	20.25	34.77	-14.52	V
680.5	-16.19	3.49	8.45	2.15	33.52	20.14	34.77	-14.63	V
695.5	-16.58	3.55	8.36	2.15	33.52	19.60	34.77	-15.17	V

LTE FDD Band 71_Channel Bandwidth 10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Aq} (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
668.0	-16.05	3.45	8.45	2.15	33.52	20.32	34.77	-14.45	V
680.5	-16.92	3.49	8.45	2.15	33.52	19.41	34.77	-15.36	V
693.0	-16.30	3.55	8.36	2.15	33.52	19.88	34.77	-14.89	V

LTE FDD Band 71_Channel Bandwidth 15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Aq} (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
670.5	-16.94	3.45	8.45	2.15	33.52	19.43	34.77	-15.34	V
680.5	-16.38	3.49	8.45	2.15	33.52	19.95	34.77	-14.82	V
690.5	-16.94	3.55	8.36	2.15	33.52	19.24	34.77	-15.53	V

LTE FDD Band 71_Channel Bandwidth 20MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Aq} (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
673.0	-16.88	3.45	8.45	2.15	33.52	19.49	34.77	-15.28	V
680.5	-16.04	3.49	8.45	2.15	33.52	20.29	34.77	-14.48	V
688.0	-16.45	3.55	8.36	2.15	33.52	19.73	34.77	-15.04	V



*LTE FDD Band 71_Channel Bandwidth 5MHz_16QAM*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Aq} (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
665.5	-16.59	3.45	8.45	2.15	33.52	19.78	34.77	-14.99	V
680.5	-16.55	3.49	8.45	2.15	33.52	19.78	34.77	-14.99	V
695.5	-16.21	3.55	8.36	2.15	33.52	19.97	34.77	-14.80	V

LTE FDD Band 71_Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Aq} (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
668.0	-16.01	3.45	8.45	2.15	33.52	20.36	34.77	-14.41	V
680.5	-16.08	3.49	8.45	2.15	33.52	20.25	34.77	-14.52	V
693.0	-16.23	3.55	8.36	2.15	33.52	19.95	34.77	-14.82	V

LTE FDD Band 71_Channel Bandwidth 15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Aq} (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
670.5	-16.53	3.45	8.45	2.15	33.52	19.84	34.77	-14.93	V
680.5	-16.52	3.49	8.45	2.15	33.52	19.81	34.77	-14.96	V
690.5	-16.90	3.55	8.36	2.15	33.52	19.28	34.77	-15.49	V

LTE FDD Band 71_Channel Bandwidth 20MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Aq} (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
673.0	-16.93	3.45	8.45	2.15	33.52	19.44	34.77	-15.33	V
680.5	-16.82	3.49	8.45	2.15	33.52	19.51	34.77	-15.26	V
688.0	-16.69	3.55	8.36	2.15	33.52	19.49	34.77	-15.28	V





4.2 Radiated Spurious Emission

LIMIT

For LTE FDD Band 2: Per FCC §24.238 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.

For LTE FDD Band 4: Per §27.53(h): For operations in the 1710–1755 MHz and 2110–2155 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10\log(P)$ dB.

For LTE FDD Band 5: Per FCC §22.917 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.

For LTE FDD Band 7: Per FCC §27.53 (m)(4): For mobile digital stations, the attenuation factor shall be not less than:

- $40 + 10\log P$ dB (–10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge,
- $43 + 10\log P$ dB (–13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge, and
- $55 + 10\log P$ dB (–25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB). [§ 27.53(m)(4)]

In addition, the attenuation factor (fixed limit) shall not be less than:

- $43 + 10\log P$ dB on all frequencies between 2490.5 MHz and 2496 MHz, and
- $55 + 10\log P$ dB at or below 2490.5 MHz. [§ 27.53(m)(4)]

For LTE FDD Band 12: Per §27.53 (g): For operations in the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10\log(P)$ dB.

For LTE FDD Band 13: Per §27.53 (c): For operations in the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following: On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10\log(P)$ dB;

On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $65 + 10\log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

For LTE FDD Band 17: Per §27.53(g): (g) For operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10\log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

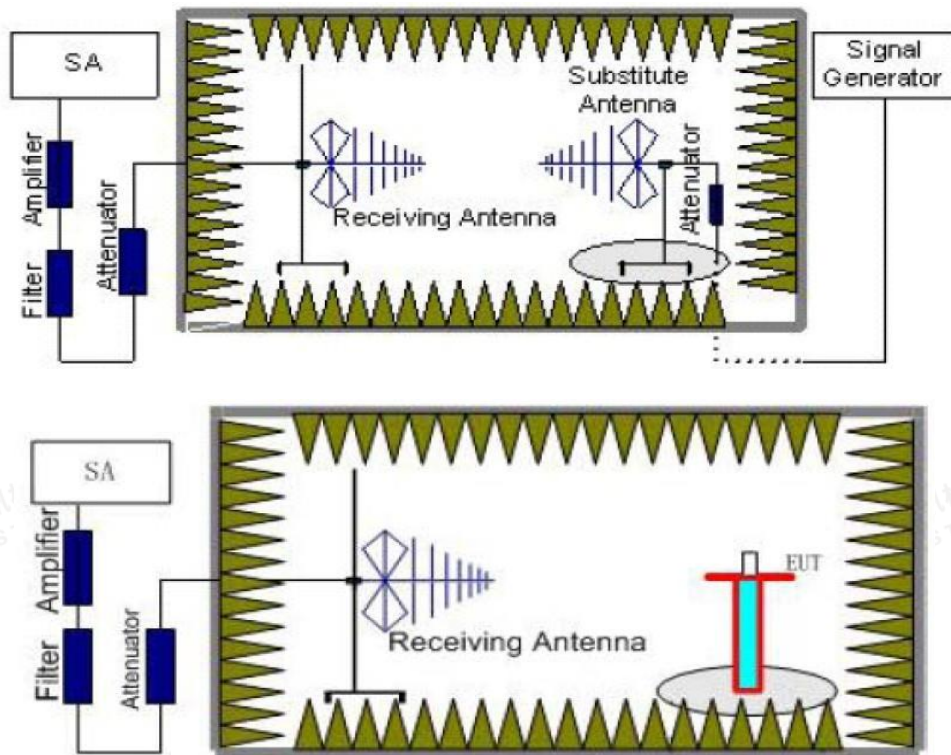
For LTE FDD Band 66: Per §27.53(h): For operations in the 1710–1780 MHz and 2110–2200 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10\log(P)$ dB.

For LTE FDD Band 71: Per §27.53(g): For operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10\log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

TEST CONFIGURATION



Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity



TEST PROCEDURE

1. EUT was placed on a 1.50 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
3. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz, And the maximum value of the receiver should be recorded as (P_r).
4. The EUT shall be replaced by a substitution antenna. In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
5. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (P_{cl}), the Substitution Antenna Gain (G_a) and the Amplifier Gain (P_{Ag}) should be recorded after test. The measurement results are obtained as described below:
$$\text{Power(EIRP)} = P_{Mea} + P_{Ag} - P_{cl} + G_a$$
6. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
7. ERP can be calculated from EIRP by subtracting the gain of the dipole, $\text{ERP} = \text{EIRP} - 2.15\text{dBi}$.
8. In order to make sure test results more clearly, we set frequency range and sweep time for difference frequency range as follows table:





Working Frequency	Subrange (GHz)	RBW	VBW	Sweep time (s)
LTE FDD Band 2	0.00009~0.15	1KHz	3KHz	30
	0.00015~0.03	10KHz	30KHz	10
	0.03~1	100KHz	300KHz	10
	1~2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3
	5~8	1 MHz	3 MHz	3
	8~11	1 MHz	3 MHz	3
	11~14	1 MHz	3 MHz	3
	14~18	1 MHz	3 MHz	3
	18~20	1 MHz	3 MHz	2
LTE FDD Band 4	0.00009~0.15	1KHz	3KHz	30
	0.00015~0.03	10KHz	30KHz	10
	0.03~1	100KHz	300KHz	10
	1~2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3
	5~8	1 MHz	3 MHz	3
	8~11	1 MHz	3 MHz	3
	11~14	1 MHz	3 MHz	3
	14~18	1 MHz	3 MHz	3
LTE FDD Band 5	0.00009~0.15	1KHz	3KHz	30
	0.00015~0.03	10KHz	30KHz	10
	0.03~1	100KHz	300KHz	10
	1~2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3
	5~8	1 MHz	3 MHz	3
	8~9	1 MHz	3 MHz	3
LTE FDD Band 7	0.00009~0.15	1KHz	3KHz	30
	0.00015~0.03	10KHz	30KHz	10
	0.03~1	100KHz	300KHz	10
	1~2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3
	5~8	1 MHz	3 MHz	3
	8~11	1 MHz	3 MHz	3
	11~14	1 MHz	3 MHz	3
	14~18	1 MHz	3 MHz	3
	18~20	1 MHz	3 MHz	2
	20~26	1 MHz	3 MHz	2
LTE FDD Band 12	0.00009~0.15	1KHz	3KHz	30
	0.00015~0.03	10KHz	30KHz	10
	0.03~1	100KHz	300KHz	10
	1~2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3
	5~8	1 MHz	3 MHz	3
LTE FDD Band 13	0.00009~0.15	1KHz	3KHz	30
	0.00015~0.03	10KHz	30KHz	10
	0.03~1	100KHz	300KHz	10
	1~2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3
	5~8	1 MHz	3 MHz	3
LTE FDD Band 17	0.00009~0.15	1KHz	3KHz	30
	0.00015~0.03	10KHz	30KHz	10
	0.03~1	100KHz	300KHz	10
	1~2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3





	5~8	1 MHz	3 MHz	3
LTE TDD Band 66	0.00009~0.15	1KHz	3KHz	30
	0.00015~0.03	10KHz	30KHz	10
	0.03~1	100KHz	300KHz	10
	1~2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3
	5~8	1 MHz	3 MHz	3
	8~11	1 MHz	3 MHz	3
	11~14	1 MHz	3 MHz	3
	14~18	1 MHz	3 MHz	3
LTE TDD Band 71	0.00009~0.15	1KHz	3KHz	30
	0.00015~0.03	10KHz	30KHz	10
	0.03~1	100KHz	300KHz	10
	1~2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3
	5~7	1 MHz	3 MHz	3

Frequency	Channel	Frequency Range	Verdict
LTE FDD Band 2	Low	9KHz -20GHz	PASS
	Middle	9KHz -20GHz	PASS
	High	9KHz -20GHz	PASS
LTE FDD Band 4	Low	9KHz -18GHz	PASS
	Middle	9KHz -18GHz	PASS
	High	9KHz -18GHz	PASS
LTE FDD Band 5	Low	9KHz -9GHz	PASS
	Middle	9KHz -9GHz	PASS
	High	9KHz -9GHz	PASS
LTE FDD Band 7	Low	9KHz -26GHz	PASS
	Middle	9KHz -26GHz	PASS
	High	9KHz -26GHz	PASS
LTE FDD Band 12	Low	9KHz -8GHz	PASS
	Middle	9KHz -8GHz	PASS
	High	9KHz -8GHz	PASS
LTE FDD Band 13	Low	9KHz -8GHz	PASS
	Middle	9KHz -8GHz	PASS
	High	9KHz -8GHz	PASS
LTE FDD Band 17	Low	9KHz -8GHz	PASS
	Middle	9KHz -8GHz	PASS
	High	9KHz -8GHz	PASS
LTE TDD Band 66	Low	9KHz -18GHz	PASS
	Middle	9KHz -18GHz	PASS
	High	9KHz -18GHz	PASS
LTE FDD Band 71	Low	9KHz -7GHz	PASS
	Middle	9KHz -7GHz	PASS
	High	9KHz -7GHz	PASS

TEST RESULTS

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 7, LTE FDD Band 12, LTE FDD Band 13, LTE FDD Band 17, LTE FDD Band 66, LTE FDD Band 71 recorded worst case for each Channel Bandwidth of LTE FDD Band 2, LTE FDD Band 4, LTE FDD Band 5, LTE FDD Band 7, LTE FDD Band 12, LTE FDD Band 13, LTE FDD Band 17, LTE FDD Band 66, LTE FDD Band 71.
3. We were not recorded other points as values lower than limits.
4. $\text{Power(EIRP)} = P_{\text{Mea}} + P_{\text{Ag}} - P_{\text{cl}} + G_a$
5. $\text{Margin} = \text{EIRP} - \text{Limit}$

Note: All adapters and all the modes have been tested and recorded worst mode in the report.



*LTE FDD Band 2 Channel Bandwidth 20MHz_QPSK_Low Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3715.0	-45.08	5.26	3.00	9.88	-40.46	-13.00	-27.46	H
5572.5	-49.55	6.11	3.00	11.36	-44.30	-13.00	-31.30	H
3715.0	-36.76	5.26	3.00	9.88	-32.14	-13.00	-19.14	V
5572.5	-39.93	6.11	3.00	11.36	-34.68	-13.00	-21.68	V

LTE FDD Band 2 Channel Bandwidth 20MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3720.0	-44.59	5.32	3.00	10.03	-39.88	-13.00	-26.88	H
5580.0	-49.21	6.19	3.00	11.41	-43.99	-13.00	-30.99	H
3720.0	-36.19	5.32	3.00	10.03	-31.48	-13.00	-18.48	V
5580.0	-41.80	6.19	3.00	11.41	-36.58	-13.00	-23.58	V

LTE FDD Band 2 Channel Bandwidth 20MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3800.0	-46.24	5.36	3.00	9.62	-41.98	-13.00	-28.98	H
5700.0	-49.81	6.24	3.00	11.46	-44.59	-13.00	-31.59	H
3800.0	-35.00	5.36	3.00	9.62	-30.74	-13.00	-17.74	V
5700.0	-41.73	6.24	3.00	11.46	-36.51	-13.00	-23.51	V

LTE FDD Band 2 Channel Bandwidth 20MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3715.0	-45.20	5.26	3.00	9.88	-40.58	-13.00	-27.58	H
5572.5	-51.51	6.11	3.00	11.36	-46.26	-13.00	-33.26	H
3715.0	-34.17	5.26	3.00	9.88	-29.55	-13.00	-16.55	V
5572.5	-41.50	6.11	3.00	11.36	-36.25	-13.00	-23.25	V

LTE FDD Band 2 Channel Bandwidth 20MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3720.0	-46.03	5.32	3.00	10.03	-41.32	-13.00	-28.32	H
5580.0	-50.32	6.19	3.00	11.41	-45.10	-13.00	-32.10	H
3720.0	-35.35	5.32	3.00	10.03	-30.64	-13.00	-17.64	V
5580.0	-40.10	6.19	3.00	11.41	-34.88	-13.00	-21.88	V

LTE FDD Band 2 Channel Bandwidth 20MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3800.0	-46.54	5.36	3.00	9.62	-42.28	-13.00	-29.28	H
5700.0	-48.77	6.24	3.00	11.46	-43.55	-13.00	-30.55	H
3800.0	-36.33	5.36	3.00	9.62	-32.07	-13.00	-19.07	V
5700.0	-40.61	6.24	3.00	11.46	-35.39	-13.00	-22.39	V



*LTE FDD Band 4_Channel Bandwidth 20MHz_QPSK_Low Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3440.0	-43.36	4.62	3.00	9.81	-38.17	-13.00	-25.17	H
5160.0	-48.19	5.94	3.00	10.86	-43.27	-13.00	-30.27	H
3440.0	-39.31	4.62	3.00	9.81	-34.12	-13.00	-21.12	V
5160.0	-44.93	5.94	3.00	10.86	-40.01	-13.00	-27.01	V

LTE FDD Band 4_Channel Bandwidth 20MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3465.0	-45.95	4.63	3.00	9.84	-40.74	-13.00	-27.74	H
5197.5	-49.16	5.94	3.00	10.86	-44.24	-13.00	-31.24	H
3465.0	-38.59	4.63	3.00	9.84	-33.38	-13.00	-20.38	V
5197.5	-42.03	5.94	3.00	10.86	-37.11	-13.00	-24.11	V

LTE FDD Band 4_Channel Bandwidth 20MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490.0	-42.71	4.65	3.00	9.9	-37.46	-13.00	-24.46	H
5235.0	-49.75	5.95	3.00	10.91	-44.79	-13.00	-31.79	H
3490.0	-37.61	4.65	3.00	9.9	-32.36	-13.00	-19.36	V
5235.0	-42.71	5.95	3.00	10.91	-37.75	-13.00	-24.75	V

LTE FDD Band 4_Channel Bandwidth 20MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3440.0	-45.61	4.62	3.00	9.81	-40.42	-13.00	-27.42	H
5160.0	-51.49	5.94	3.00	10.86	-46.57	-13.00	-33.57	H
3440.0	-39.89	4.62	3.00	9.81	-34.70	-13.00	-21.70	V
5160.0	-42.88	5.94	3.00	10.86	-37.96	-13.00	-24.96	V

LTE FDD Band 4_Channel Bandwidth 20MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3465.0	-42.94	4.63	3.00	9.84	-37.73	-13.00	-24.73	H
5197.5	-50.15	5.94	3.00	10.86	-45.23	-13.00	-32.23	H
3465.0	-39.68	4.63	3.00	9.84	-34.47	-13.00	-21.47	V
5197.5	-44.02	5.94	3.00	10.86	-39.10	-13.00	-26.10	V

LTE FDD Band 4_Channel Bandwidth 20MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490.0	-44.21	4.65	3.00	9.9	-38.96	-13.00	-25.96	H
5235.0	-49.03	5.95	3.00	10.91	-44.07	-13.00	-31.07	H
3490.0	-40.93	4.65	3.00	9.9	-35.68	-13.00	-22.68	V
5235.0	-43.88	5.95	3.00	10.91	-38.92	-13.00	-25.92	V



*LTE FDD Band 5 Channel Bandwidth 10MHz QPSK Low Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1658.00	-42.44	3.86	3.00	8.56	-37.74	-13.00	-24.74	H
2487.00	-50.80	4.29	3.00	6.98	-48.11	-13.00	-35.11	H
1658.00	-37.67	3.86	3.00	8.56	-32.97	-13.00	-19.97	V
2487.00	-43.27	4.29	3.00	6.98	-40.58	-13.00	-27.58	V

LTE FDD Band 5 Channel Bandwidth 10MHz QPSK Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.00	-42.24	3.9	3.00	8.58	-37.56	-13.00	-24.56	H
2509.50	-49.17	4.32	3.00	6.8	-46.69	-13.00	-33.69	H
1673.00	-38.95	3.9	3.00	8.58	-34.27	-13.00	-21.27	V
2509.50	-43.33	4.32	3.00	6.8	-40.85	-13.00	-27.85	V

LTE FDD Band 5 Channel Bandwidth 10MHz QPSK High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1688.00	-42.30	3.91	3.00	9.06	-37.15	-13.00	-24.15	H
2532.00	-49.73	4.32	3.00	6.65	-47.40	-13.00	-34.40	H
1688.00	-36.57	3.91	3.00	9.06	-31.42	-13.00	-18.42	V
2532.00	-41.53	4.32	3.00	6.65	-39.20	-13.00	-26.20	V

LTE FDD Band 5 Channel Bandwidth 10MHz 16QAM Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1658.00	-43.16	3.86	3.00	8.56	-38.46	-13.00	-25.46	H
2487.00	-49.66	4.29	3.00	6.98	-46.97	-13.00	-33.97	H
1658.00	-36.25	3.86	3.00	8.56	-31.55	-13.00	-18.55	V
2487.00	-43.67	4.29	3.00	6.98	-40.98	-13.00	-27.98	V

LTE FDD Band 5 Channel Bandwidth 10MHz 16QAM Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.00	-44.88	3.9	3.00	8.58	-40.20	-13.00	-27.20	H
2509.50	-50.46	4.32	3.00	6.8	-47.98	-13.00	-34.98	H
1673.00	-38.08	3.9	3.00	8.58	-33.40	-13.00	-20.40	V
2509.50	-41.53	4.32	3.00	6.8	-39.05	-13.00	-26.05	V

LTE FDD Band 5 Channel Bandwidth 10MHz 16QAM High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1688.00	-43.60	3.91	3.00	9.06	-38.45	-13.00	-25.45	H
2532.00	-47.22	4.32	3.00	6.65	-44.89	-13.00	-31.89	H
1688.00	-39.60	3.91	3.00	9.06	-34.45	-13.00	-21.45	V
2532.00	-42.94	4.32	3.00	6.65	-40.61	-13.00	-27.61	V



*LTE FDD Band 7_Channel Bandwidth 20MHz_QPSK_Low Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5020.0	-42.05	5.88	3.00	10.77	-37.16	-25.00	-12.16	H
7530.0	-49.01	7.12	3.00	12.26	-43.87	-25.00	-18.87	H
5020.0	-44.74	5.88	3.00	10.77	-39.85	-25.00	-14.85	V
7530.0	-47.67	7.12	3.00	12.26	-42.53	-25.00	-17.53	V

LTE FDD Band 7_Channel Bandwidth 20MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070.0	-42.78	5.9	3.00	10.81	-37.87	-25.00	-12.87	H
7605.0	-47.05	7.19	3.00	12.32	-41.92	-25.00	-16.92	H
5070.0	-43.79	5.9	3.00	10.81	-38.88	-25.00	-13.88	V
7605.0	-47.90	7.19	3.00	12.32	-42.77	-25.00	-17.77	V

LTE FDD 7_Channel Bandwidth 20MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5120.0	-45.00	5.94	3.00	10.86	-40.08	-25.00	-15.08	H
7680.0	-49.40	7.25	3.00	12.98	-43.67	-25.00	-18.67	H
5120.0	-42.87	5.94	3.00	10.86	-37.95	-25.00	-12.95	V
7680.0	-48.73	7.25	3.00	12.98	-43.00	-25.00	-18.00	V

LTE FDD Band 7_Channel Bandwidth 20MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5020.0	-42.53	5.88	3.00	10.77	-37.64	-25.00	-12.64	H
7530.0	-50.16	7.12	3.00	12.26	-45.02	-25.00	-20.02	H
5020.0	-43.60	5.88	3.00	10.77	-38.71	-25.00	-13.71	V
7530.0	-47.58	7.12	3.00	12.26	-42.44	-25.00	-17.44	V

LTE FDD Band 7_Channel Bandwidth 20MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070.0	-45.16	5.9	3.00	10.81	-40.25	-25.00	-15.25	H
7605.0	-50.81	7.19	3.00	12.32	-45.68	-25.00	-20.68	H
5070.0	-42.28	5.9	3.00	10.81	-37.37	-25.00	-12.37	V
7605.0	-49.83	7.19	3.00	12.32	-44.70	-25.00	-19.70	V

LTE FDD Band 7_Channel Bandwidth 20MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5120.0	-43.25	5.94	3.00	10.86	-38.33	-25.00	-13.33	H
7680.0	-49.57	7.25	3.00	12.98	-43.84	-25.00	-18.84	H
5120.0	-44.81	5.94	3.00	10.86	-39.89	-25.00	-14.89	V
7680.0	-47.80	7.25	3.00	12.98	-42.07	-25.00	-17.07	V



*LTE FDD Band 12_Channel Bandwidth 10MHz_QPSK_Low Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1408.00	-42.89	3.71	3.00	9.02	-37.58	-13.00	-24.58	H
2112.00	-48.02	4.22	3.00	8.64	-43.60	-13.00	-30.60	H
1408.00	-37.48	3.71	3.00	9.02	-32.17	-13.00	-19.17	V
2112.00	-42.24	4.22	3.00	8.64	-37.82	-13.00	-24.82	V

LTE FDD Band 12_Channel Bandwidth 10MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.00	-43.40	3.72	3.00	9.04	-38.08	-13.00	-25.08	H
2122.50	-48.38	4.23	3.00	8.6	-44.01	-13.00	-31.01	H
1415.00	-37.11	3.72	3.00	9.04	-31.79	-13.00	-18.79	V
2122.50	-41.08	4.23	3.00	8.6	-36.71	-13.00	-23.71	V

LTE FDD Band 12_Channel Bandwidth 10MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.00	-44.42	4.78	3.00	8.91	-40.29	-13.00	-27.29	H
2133.00	-49.60	4.25	3.00	8.26	-45.59	-13.00	-32.59	H
1422.00	-36.70	4.78	3.00	8.91	-32.57	-13.00	-19.57	V
2133.00	-41.64	4.25	3.00	8.26	-37.63	-13.00	-24.63	V

LTE FDD Band 12_Channel Bandwidth 10MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1408.00	-42.81	3.71	3.00	9.02	-37.50	-13.00	-24.50	H
2112.00	-49.60	4.22	3.00	8.64	-45.18	-13.00	-32.18	H
1408.00	-39.57	3.71	3.00	9.02	-34.26	-13.00	-21.26	V
2112.00	-41.91	4.22	3.00	8.64	-37.49	-13.00	-24.49	V

LTE FDD Band 12_Channel Bandwidth 10MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.00	-41.26	3.72	3.00	9.04	-35.94	-13.00	-22.94	H
2122.50	-49.00	4.23	3.00	8.6	-44.63	-13.00	-31.63	H
1415.00	-36.42	3.72	3.00	9.04	-31.10	-13.00	-18.10	V
2122.50	-39.60	4.23	3.00	8.6	-35.23	-13.00	-22.23	V

LTE FDD Band 12_Channel Bandwidth 10MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.00	-43.79	4.78	3.00	8.91	-39.66	-13.00	-26.66	H
2133.00	-50.18	4.25	3.00	8.26	-46.17	-13.00	-33.17	H
1422.00	-36.48	4.78	3.00	8.91	-32.35	-13.00	-19.35	V
2133.00	-41.15	4.25	3.00	8.26	-37.14	-13.00	-24.14	V



*LTE FDD Band 13_Channel Bandwidth 10MHz_QPSK_Middle Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1564.0	-64.54	4.92	3.00	10.45	-59.01	-40.00	-19.01	H
2346.0	-51.64	5.78	3.00	12.32	-45.10	-13.00	-32.10	H
1564.0	-65.65	4.92	3.00	10.45	-60.12	-40.00	-20.12	V
2346.0	-41.76	5.78	3.00	12.32	-35.22	-13.00	-22.22	V

LTE FDD Band 13_Channel Bandwidth 10MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1564.0	-65.55	4.99	3.00	11.12	-59.42	-40.00	-19.42	H
2346.0	-51.12	5.85	3.00	12.02	-44.95	-13.00	-31.95	H
1564.0	-63.17	4.99	3.00	11.12	-57.04	-40.00	-17.04	V
2346.0	-40.31	5.85	3.00	12.02	-34.14	-13.00	-21.14	V

LTE FDD Band 17_Channel Bandwidth 10MHz_QPSK_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1418.0	-43.51	3.72	3.00	9.04	-38.19	-13.00	-25.19	H
2127.0	-46.61	4.23	3.00	8.6	-42.24	-13.00	-29.24	H
1418.0	-35.47	3.72	3.00	9.04	-30.15	-13.00	-17.15	V
2127.0	-39.25	4.23	3.00	8.6	-34.88	-13.00	-21.88	V

LTE FDD Band 17_Channel Bandwidth 10MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1420.0	-40.63	4.78	3.00	8.91	-36.50	-13.00	-23.50	H
2130.0	-48.45	4.25	3.00	8.26	-44.44	-13.00	-31.44	H
1420.0	-38.62	4.78	3.00	8.91	-34.49	-13.00	-21.49	V
2130.0	-38.56	4.25	3.00	8.26	-34.55	-13.00	-21.55	V

LTE FDD Band 17_Channel Bandwidth 10MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.0	-41.56	4.78	3.00	8.91	-37.43	-13.00	-24.43	H
2133.0	-48.32	4.25	3.00	8.26	-44.31	-13.00	-31.31	H
1422.0	-37.01	4.78	3.00	8.91	-32.88	-13.00	-19.88	V
2133.0	-40.03	4.25	3.00	8.26	-36.02	-13.00	-23.02	V

LTE FDD Band 17_Channel Bandwidth 10MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1418.0	-41.24	3.72	3.00	9.04	-35.92	-13.00	-22.92	H
2127.0	-48.67	4.23	3.00	8.6	-44.30	-13.00	-31.30	H
1418.0	-35.92	3.72	3.00	9.04	-30.60	-13.00	-17.60	V
2127.0	-38.98	4.23	3.00	8.6	-34.61	-13.00	-21.61	V



*LTE FDD Band 17_Channel Bandwidth 10MHz_16QAM_Middle Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1420.0	-43.97	4.78	3.00	8.91	-39.84	-13.00	-26.84	H
2130.0	-46.35	4.25	3.00	8.26	-42.34	-13.00	-29.34	H
1420.0	-37.56	4.78	3.00	8.91	-33.43	-13.00	-20.43	V
2130.0	-39.93	4.25	3.00	8.26	-35.92	-13.00	-22.92	V

LTE FDD Band 17_Channel Bandwidth 10MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.0	-42.26	4.78	3.00	8.91	-38.13	-13.00	-25.13	H
2133.0	-49.62	4.25	3.00	8.26	-45.61	-13.00	-32.61	H
1422.0	-36.21	4.78	3.00	8.91	-32.08	-13.00	-19.08	V
2133.0	-41.46	4.25	3.00	8.26	-37.45	-13.00	-24.45	V

LTE FDD Band 66_Channel Bandwidth 20MHz_QPSK_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3440.0	-45.77	4.92	3.00	10.45	-40.24	-13.00	-27.24	H
5160.0	-49.22	5.78	3.00	12.32	-42.68	-13.00	-29.68	H
3440.0	-36.49	4.92	3.00	10.45	-30.96	-13.00	-17.96	V
5160.0	-43.53	5.78	3.00	12.32	-36.99	-13.00	-23.99	V

LTE FDD Band 66_Channel Bandwidth 20MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490.0	-45.84	4.99	3.00	11.12	-39.71	-13.00	-26.71	H
5235.0	-49.43	5.85	3.00	12.02	-43.26	-13.00	-30.26	H
3490.0	-38.32	4.99	3.00	11.12	-32.19	-13.00	-19.19	V
5235.0	-40.62	5.85	3.00	12.02	-34.45	-13.00	-21.45	V

LTE FDD Band 66_Channel Bandwidth 20MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3540.0	-43.47	5.12	3.00	9.98	-38.61	-13.00	-25.61	H
5310.0	-47.68	5.93	3.00	11.66	-41.95	-13.00	-28.95	H
3540.0	-37.08	5.12	3.00	9.98	-32.22	-13.00	-19.22	V
5310.0	-40.63	5.93	3.00	11.66	-34.90	-13.00	-21.90	V

LTE FDD Band 66_Channel Bandwidth 20MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3440.0	-43.34	4.92	3.00	10.45	-37.81	-13.00	-24.81	H
5160.0	-48.78	5.78	3.00	12.32	-42.24	-13.00	-29.24	H
3440.0	-36.06	4.92	3.00	10.45	-30.53	-13.00	-17.53	V
5160.0	-40.46	5.78	3.00	12.32	-33.92	-13.00	-20.92	V



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*LTE FDD Band 66_Channel Bandwidth 20MHz_16QAM_Middle Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490.0	-44.41	4.99	3.00	11.12	-38.28	-13.00	-25.28	H
5235.0	-50.70	5.85	3.00	12.02	-44.53	-13.00	-31.53	H
3490.0	-38.60	4.99	3.00	11.12	-32.47	-13.00	-19.47	V
5235.0	-43.33	5.85	3.00	12.02	-37.16	-13.00	-24.16	V

LTE FDD Band 66_Channel Bandwidth 20MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3540.0	-42.89	5.12	3.00	9.98	-38.03	-13.00	-25.03	H
5310.0	-49.57	5.93	3.00	11.66	-43.84	-13.00	-30.84	H
3540.0	-35.79	5.12	3.00	9.98	-30.93	-13.00	-17.93	V
5310.0	-40.05	5.93	3.00	11.66	-34.32	-13.00	-21.32	V

LTE FDD Band 71_Channel Bandwidth 20MHz_QPSK_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1346.0	-43.27	4.73	3.00	10.42	-37.58	-13.00	-24.58	H
2019.0	-49.54	5.64	3.00	12.30	-42.88	-13.00	-29.88	H
1346.0	-37.26	4.73	3.00	10.42	-31.57	-13.00	-18.57	V
2019.0	-39.60	5.64	3.00	12.30	-32.94	-13.00	-19.94	V

LTE FDD Band 71_Channel Bandwidth 20MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1361.0	-41.59	4.73	3.00	10.42	-35.90	-13.00	-22.90	H
2041.5	-49.14	5.64	3.00	12.30	-42.48	-13.00	-29.48	H
1361.0	-36.67	4.73	3.00	10.42	-30.98	-13.00	-17.98	V
2041.5	-38.52	5.64	3.00	12.30	-31.86	-13.00	-18.86	V

LTE FDD Band 71_Channel Bandwidth 20MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1376.0	-41.14	4.75	3.00	10.44	-35.45	-13.00	-22.45	H
2064.0	-46.19	5.66	3.00	12.33	-39.52	-13.00	-26.52	H
1376.0	-37.66	4.75	3.00	10.44	-31.97	-13.00	-18.97	V
2064.0	-41.10	5.66	3.00	12.33	-34.43	-13.00	-21.43	V

LTE FDD Band 71_Channel Bandwidth 20MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1346.0	-40.89	4.77	3.00	10.45	-35.21	-13.00	-22.21	H
2019.0	-46.32	5.69	3.00	12.36	-39.65	-13.00	-26.65	H
1346.0	-36.32	4.77	3.00	10.45	-30.64	-13.00	-17.64	V
2019.0	-40.63	5.69	3.00	12.36	-33.96	-13.00	-20.96	V



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Scan code to check authenticity

*LTE FDD Band 71_Channel Bandwidth 20MHz_16QAM_Middle Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1361.0	-40.15	4.75	3.00	10.44	-34.46	-13.00	-21.46	H
2041.5	-49.68	5.66	3.00	12.33	-43.01	-13.00	-30.01	H
1361.0	-36.91	4.75	3.00	10.44	-31.22	-13.00	-18.22	V
2041.5	-41.54	5.66	3.00	12.33	-34.87	-13.00	-21.87	V

LTE FDD Band 71_Channel Bandwidth 20MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1376.0	-43.86	4.77	3.00	10.45	-38.18	-13.00	-25.18	H
2064.0	-46.36	5.69	3.00	12.36	-39.69	-13.00	-26.69	H
1376.0	-35.44	4.77	3.00	10.45	-29.76	-13.00	-16.76	V
2064.0	-40.91	5.69	3.00	12.36	-34.24	-13.00	-21.24	V

Notes: All channel bandwidth were tested,the report recorded the worst data.





5 Test Setup Photos of the EUT

Pleaserefer to separated files for Test Setup Photos of the EUT.

6 External Photos of the EUT

Pleaserefer to separated files for External Photos of the EUT.

7 Internal Photos of the EUT

Pleaserefer to separated files for Internal Photos of the EUT.

-----THE END OF REPORT-----

