



*Full*

# TEST REPORT

**No. I18D00014-SRD05**

*For*

**Client : IFLYTEK CO.,LTD.**

**Production : TD-LTE Wireless Data Terminal**

**Model Name : easytrans 800**

**FCC ID: 2AMI5-EASYTRANS-800**

**IC ID: 23795-EASYTRANS**

**Hardware Version: V1.0**

**Software Version: V1.0**

**Issued date: 2018-05-04**

**Note:**

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of ECIT Shanghai.

**Test Laboratory:**

ECIT Shanghai, East China Institute of Telecommunications

Add: 7-8F, G Area, No.668, Beijing East Road, Huangpu District, Shanghai, P. R. China

Tel: (+86)-021-63843300, E-Mail: [welcome@ecit.org.cn](mailto:welcome@ecit.org.cn)

**Revision Version**

<b>Report Number</b>	<b>Revision</b>	<b>Date</b>	<b>Memo</b>
I18D00014-SRD05	00	2018-04-23	Initial creation of test report
I18D00014-SRD05	01	2018-05-04	Second creation of test report

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## 1. Test Laboratory

### 1.1. Testing Location

Company Name:	ECIT Shanghai, East China Institute of Telecommunications
Address:	7-8F, G Area, No. 668, Beijing East Road, Huangpu District, Shanghai, P. R. China
Postal Code:	200001
Telephone:	(+86)-021-63843300
Fax:	(+86)-021-63843301

### 1.2. Testing Environment

Normal Temperature:	15-35°C
Extreme Temperature:	-10/+55°C
Relative Humidity:	25-75%

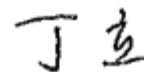
### 1.3. Project data

Project Leader:	Ning Kang
Testing Start Date:	2018-03-15
Testing End Date:	2018-04-03

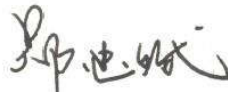
### 1.4. Signature



\_\_\_\_\_  
**Yang Dejun**  
(Prepared this test report)



\_\_\_\_\_  
**Ding Li**  
(Reviewed this test report)



\_\_\_\_\_  
**Zheng Zhongbin**  
Director of the laboratory  
(Approved this test report)

## 2. Client Information

### 2.1. Applicant Information

Company Name: IFLYTEK CO.,LTD.  
Address: National Intelligent Speech High-tech Industrialization Base, No. 666,  
Wangjiang Road West, Hefei City, Anhui Province, China  
Postcode: /  
Telephone: 18019939577

### 2.2. Manufacturer Information

Company Name: Shanghai Wind Communication Technologies Co.,Ltd.  
Address: The 12th Floor, East Wing, Guilin Technology Building, No.650, Caobao  
Road, Xuhui District, Shanghai, P. R. China  
Postcode: /  
Chen LuTelephone: 021-64958113

### 3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

#### 3.1. About EUT

EUT Description	TD-LTE Wireless Data Terminal
Model name	easytrans 800
FCC ID	2AMI5-EASYTRANS-800
IC ID	23795-EASYTRANS
Frequency	GSM8501900; WCDMA Band II/IV/V LTE FDD2/4/5/7/12/13/17/25/26/41/66
Extreme Temperature	-10/+55°C
Nominal Voltage	3.85V
Extreme High Voltage	4.4V
Extreme Low Voltage	3.5V

Note: Photographs of EUT are shown in ANNEX A of this test report.

#### 3.2. Internal Identification of EUT used during the test

EUT ID*	Model Name	SN or IMEI	HW Version	SW Version	Date of receipt
N11	easytrans 800	8647720301081 60	V1.0	V1.0	2018-02-01
N22	easytrans 800	8647720301126 91	V1.0	V1.0	2018-02-01

\*EUT ID: is used to identify the test sample in the lab internally.

#### 3.3. Internal Identification of AE used during the test

AE ID*	Description	SN
AE1	RF cable	---
AE2	Dummy Battery	---

\*AE ID: is used to identify the test sample in the lab internally.

#### 3.4. Statements

The easytrans 800, supporting GPRS/EDGE/WCDMA/HSDPA/HSUPA/HSPA+/CDMA/LTE/BT/BLE/WLAN, manufactured by Shanghai Wind Communication Technologies Co.,Ltd., which is a new product for testing.

ECIT has verified that the compliance of the tested device specified in section 5 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 5 of this test report.

## 4. Reference Documents

### 4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 22	PUBLIC MOBILE SERVICES	2014
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	2014
FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	2014
ANSI/TIA-603-E	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	2016
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2014
KDB 971168 D01	Measurement Guidance for Certification of Licensed Digital Transmitters	v03



## 5. SUMMARY OF TEST RESULTS

### LTE Band 2

Items	Test Name	Clause in FCC rules	Clause in IC rules RSS-Gen and RSS-133	Section in this report	Verdict
1	Output Power	24.232(c)	6.4	A.1	P
2	Emission Limit	24.238(a), 2.1051	6.5	A.2	P
3	Frequency Stability	24.235, 2.1055	6.3	A.3	P
4	Occupied Bandwidth	2.1049(h)(i)	6.6	A.4	P
5	Emission Bandwidth	24.238(a)	6.6	A.5	P
6	Band Edge Compliance	24.238(a)	6.5	A.6	P
7	Conducted Spurious Emission	24.238, 2.1057	6.13/6.5	A.7	P
8	Peak to Average Power Ratio	24.232 (d)	6.4	A.8	P

### LTE Band 4

Items	Test Name	Clause in FCC rules	Clause in IC rules RSS-Gen and RSS-139	Section in this report	Verdict
1	Output Power	27.50(d)(4)	6.5	A.1	P
2	Emission Limit	27.53(h), 2.1051	6.6	A.2	P
3	Frequency Stability	27.54, 2.1055	6.4	A.3	P
4	Occupied Bandwidth	2.1049(h)(i)	6.6	A.4	P
5	Emission Bandwidth	27.53(h)	6.6	A.5	P
6	Band Edge Compliance	27.53(h)	6.6	A.6	P
7	Conducted Spurious Emission	27.53(h), 2.1057	6.6	A.7	P
8	Peak to Average Power Ratio	27.50(a)	6.5	A.8	P

### LTE Band 5

Items	Test Name	Clause in FCC rules	Clause in IC rules RSS-Gen and RSS-132	Section in this report	Verdict
1	Output Power	§2.1046(a), 22.913(a)	5.4	A.1	P
2	Emission Limit	22.917, 2.1051	5.5	A.2	P
3	Frequency Stability	22.235,	5.3	A.3	P

		2.1055			
4	Occupied Bandwidth	2.1049(h)(i)	6.6	A.4	P
5	Emission Bandwidth	22.917(b)	6.6	A.5	P
6	Band Edge Compliance	22.917(b)	5.5	A.6	P
7	Conducted Spurious Emission	22.917, 2.1057	6.13/5.5	A.7	P

### LTE Band 7

Items	Test Name	Clause in FCC rules	Clause in IC rules RSS-Gen and RSS-199	Section in this report	Verdict
1	Output Power	27.50(h)(2)	4.4	A.1	P
2	Emission Limit	27.53(m), 2.1051	4.6	A.2	P
3	Frequency Stability	27.54, 2.1055	4.3	A.3	P
4	Occupied Bandwidth	2.1049(h)(i)	4.2	A.4	P
5	Emission Bandwidth	27.53(m)	4.2	A.5	P
6	Band Edge Compliance	27.53(m)	4.6	A.6	P
7	Conducted Spurious Emission	27.53(m), 2.1057	4.6	A.7	P
8	Peak to Average Power Ratio	27.50(a)	4.4	A.8	P

### LTE Band 12

Items	Test Name	Clause in FCC rules	Clause in IC rules RSS-Gen and RSS-130	Section in this report	Verdict
1	Output Power	27.50(c)(10)	4.4	A.1	P
2	Emission Limit	27.53(g), 2.1051	4.6	A.2	P
3	Frequency Stability	27.54, 2.1055	4.3	A.3	P
4	Occupied Bandwidth	2.1049(h)(i)	6.6	A.4	P
5	Emission Bandwidth	27.53(g)	6.6	A.5	P
6	Band Edge Compliance	27.53(g)	4.6	A.6	P
7	Conducted Spurious Emission	27.53(g), 2.1057	4.6	A.7	P
8	Peak to Average Power Ratio	27.50(a)	4.4	A.8	P

### LTE Band 13

Items	Test Name	Clause in FCC rules	Clause in IC rules RSS-Gen and RSS-130	Section in this report	Verdict
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1	Output Power	27.50(b)(10)	/	A.1	P
2	Emission Limit	27.53(c), 2.1051	/	A.2	P
3	Frequency Stability	27.54, 2.1055	/	A.3	P
4	Occupied Bandwidth	2.1049(h)(i)	/	A.4	P
5	Emission Bandwidth	27.53(c)	/	A.5	P
6	Band Edge Compliance	27.53(c)	/	A.6	P
7	Conducted Spurious Emission	27.53(c), 2.1057	/	A.7	P
8	Peak to Average Power Ratio	27.50(a)	/	A.8	P

### LTE Band 17

Items	Test Name	Clause in FCC rules	Clause in IC rules RSS-Gen and RSS-130	Section in this report	Verdict
1	Output Power	27.50(c)(10)	4.4	A.1	P
2	Emission Limit	27.53(g), 2.1051	4.6	A.2	P
3	Frequency Stability	27.54, 2.1055	4.3	A.3	P
4	Occupied Bandwidth	2.1049(h)(i)	6.6	A.4	P
5	Emission Bandwidth	27.53(g)	6.6	A.5	P
6	Band Edge Compliance	27.53(g)	4.6	A.6	P
7	Conducted Spurious Emission	27.53(g), 2.1057	4.6	A.7	P
8	Peak to Average Power Ratio	27.50(a)	4.4	A.8	P

### LTE Band 25

Items	Test Name	Clause in FCC rules	Clause in IC rules RSS-Gen and RSS-130	Section in this report	Verdict
1	Output Power	27.50(c)(10)	4.4	A.1	P
2	Emission Limit	27.53(g), 2.1051	4.6	A.2	P
3	Frequency Stability	27.54, 2.1055	4.3	A.3	P
4	Occupied Bandwidth	2.1049(h)(i)	6.6	A.4	P
5	Emission Bandwidth	27.53(g)	6.6	A.5	P
6	Band Edge Compliance	27.53(g)	4.6	A.6	P
7	Conducted Spurious Emission	27.53(g), 2.1057	4.6	A.7	P
8	Peak to Average Power Ratio	27.50(a)	4.4	A.8	P

### LTE Band 26

Items	Test Name	Clause in FCC rules	Clause in IC rules RSS-Gen and RSS-130	Section in this report	Verdict
1	Equivalent Isotropically Radiated Power	2.1046/90.1321	/	A.1	P
2	Peak EIRP Power Density	2.1046/90.1321	/	A.2	P
3	Radiated Emissions	2.1046/90.1323	/	A.3	P
4	Conducted Emissions	2.1046/90.1323	/	A.4	P
5	Emissions Mask	90.210	/	A.5	P
6	26dBc Bandwidth	2.1049(h)/90.1323	/	A.6	P
7	Frequency Stability	2.1055/90.213	/	A.7	P

### LTE Band 41

Items	Test Name	Clause in FCC rules	Clause in IC rules RSS-Gen and RSS-130	Section in this report	Verdict
1	Output Power	27.50(h)(2)	4.4	A.1	P
2	Emission Limit	27.53(m), 2.1051	4.6	A.2	P
3	Frequency Stability	27.54, 2.1055	4.3	A.3	P
4	Occupied Bandwidth	2.1049(h)(i)	6.6	A.4	P
5	Emission Bandwidth	27.53(m)	6.6	A.5	P
6	Band Edge Compliance	27.53(m)	4.6	A.6	P
7	Conducted Spurious Emission	27.53(m), 2.1057	4.6	A.7	P
8	Peak to Average Power Ratio	27.50(a)	4.4	A.8	P

### LTE Band 66

Items	Test Name	Clause in FCC rules	Clause in IC rules RSS-Gen and RSS-130	Section in this report	Verdict
1	Output Power	27.50(c)(10)	4.4	A.1	P
2	Emission Limit	27.53(g), 2.1051	4.6	A.2	P
3	Frequency Stability	27.54, 2.1055	4.3	A.3	P
4	Occupied Bandwidth	2.1049(h)(i)	6.6	A.4	P
5	Emission Bandwidth	27.53(g)	6.6	A.5	P
6	Band Edge Compliance	27.53(g)	4.6	A.6	P
7	Conducted Spurious Emission	27.53(g), 2.1057	4.6	A.7	P

8	Peak to Average Power Ratio	27.50(a)	4.4	A.8	P
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**Receiver Radiated Emission**

Items	Test Name	Clause in IC rules		Section in this report	Verdict
		RSS-132	RSS-133		
9	Receiver Radiated Emissions	5.6	6.6	A.9	P

## 6. Test Equipment Utilized

### Climate chamber

No.	Equipment	Model	Serial Number	Manufacturer	Calibration date	Cal.interval
1	Climate chamber	SH-641	92012011	ESPEC	2017-12-25	2 Year

### Radiated emission test system

The test equipment and ancillaries used are as follows.

No.	Equipment	Model	Serial Number	Manufacturer	Calibration date	Cal.interval
1	Universal Radio Communication Tester	CMW500	104178	R&S	2017-05-11	1 Year
2	Test Receiver	ESU40	100307	R&S	2017-05-11	1 Year
3	TRILOG Broadband Antenna	VULB9163	VULB9163-515	Schwarzbeck	2017-02-25	3 Year
4	Double Ridged Guide Antenna	ETS-3117	135890	ETS	2017-01-11	3 Year
5	2-Line V-Network	ENV216	101380	R&S	2017-05-11	1 Year
6	Substitution Antenna	ETS-3117	00135890	ETS	2017-01-11	3 Year
7	RF Signal Generator	SMF100A	102314	R&S	2017-05-11	1 Year
8	Substitution Antenna	VUBA9117	9117-266	Schwarzbeck	2017-11-18	3 Year
9	Amplifier	SCU08	10146	R&S	2017-05-11	1 Year

### Conducted test system

No.	Name	Type	SN	Manufacture	Calibration date	Cal.interval
1	Vector Signal Analyser	FSQ40	200063	Rohde&Schwarz	2017-12-17	1 Year
2	Wireless communication comprehensive tester	CMW500	148904	Rohde&Schwarz	2017-08-21	1 Year
3	DC Power Supply	ZUP60-14	LOC-220Z 006 -0007	TDL-Lambda	2017-05-11	1 Year

**Software**

Name	Version
Eagle FCC LTE auto test system	V3.0
EMC32	V9.15

## 7. Test Environment

**Shielding Room1** (6.0 meters×3.0 meters×2.7 meters) did not exceed following limits along the conducted RF performance testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20%, Max. = 75 %
Shielding effectiveness	> 100 dB
Ground system resistance	< 0.5 Ω

**Control room** did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. =25 %, Max. =75 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

**Fully-anechoic chamber1** (6.9 meters×10.9 meters×5.4 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 25 %, Max. = 75 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
VSWR	Between 0 and 6 dB, from 1GHz to 18GHz
Site Attenuation Deviation	Between -4 and 4 dB,30MHz to 1GHz
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz



## ANNEX A. MEASUREMENT RESULTS

### ANNEX A.1. OUTPUT POWER

#### A.1.1. Summary

During the process of testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication tester (CMW500) to ensure max power transmission and proper modulation. In all cases, output power is within the specified limits.

#### A.1.2. Conducted

##### A.1.2.1. Method of Measurements

The EUT was set up for the max output power with pseudo random data modulation. These measurements were done at 3 frequencies (bottom, middle and top of operational frequency range) for each bandwidth.

##### A.1.2.2 Measurement result

###### LTE band 2

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)	
			QPSK	16QAM
1.4MHz	1 RB high	1850.7	22.28	21.53
		1880.0	22.43	21.48
		1909.3	21.97	21.14
	1 RB low	1850.7	22.29	21.45
		1880.0	22.47	21.33
		1909.3	22.37	21.58
	50% RB mid	1850.7	22.36	22.35
		1880.0	22.25	22.24
		1909.3	21.98	21.96
	100% RB	1850.7	21.31	20.41
		1880.0	21.23	20.33
		1909.3	21.08	20.4
3MHz	1 RB high	1851.5	22.2	21.51
		1880.0	22.03	21.84
		1908.5	21.97	21.13
	1 RB low	1851.5	22.39	21.55
		1880.0	22.16	21.49
		1908.5	22.11	21.95
	50% RB mid	1851.5	21.27	20.21
		1880.0	21.32	20.13
		1908.5	21.3	20.43

	100% RB	1851.5	21.24	20.15
		1880.0	21.28	20.28
		1908.5	21.49	20.6
5MHz	1 RB high	1852.5	21.99	21.39
		1880.0	22.06	20.65
		1907.5	21.98	21.29
	1 RB low	1852.5	22.35	21.51
		1880.0	22.07	20.56
		1907.5	22.09	21.64
	50% RB mid	1852.5	21.27	21.27
		1880.0	21.24	21.16
		1907.5	21.33	21.47
	100% RB	1852.5	21.37	20.35
		1880.0	21.13	20.24
		1907.5	21.43	20.4
10MHz	1 RB high	1855.0	21.88	21.46
		1880.0	22.16	21.93
		1905.0	21.85	21.44
	1 RB low	1855.0	22.41	21.83
		1880.0	21.48	21.12
		1905.0	21.39	21.25
	50% RB mid	1855.0	21.09	21.08
		1880.0	21.24	21.16
		1905.0	21.48	21.45
	100% RB	1855.0	21.33	20.31
		1880.0	21.12	20.05
		1905.0	21.45	20.38
15MHz	1 RB high	1857.5	21.96	20.14
		1880.0	21.99	20.45
		1902.5	21.32	20.52
	1 RB low	1857.5	21.66	20.57
		1880.0	21.8	20.47
		1902.5	21.91	20.08
	50% RB mid	1857.5	21.04	21.02
		1880.0	21.2	21.22
		1902.5	21.47	21.39
	100% RB	1857.5	21.14	20.07
		1880.0	21.06	20.18
		1902.5	21.08	20.3

20MHz	1 RB high	1860.0	21.46	20.69
		1880.0	21.6	20.93
		1900.0	21.34	20.58
	1 RB low	1860.0	20.66	20.3
		1880.0	20.36	20.19
		1900.0	20.86	20.1
	50% RB mid	1860.0	21.02	21
		1880.0	21.21	21.18
		1900.0	21.44	21.33
	100% RB	1860.0	21.12	20.12
		1880.0	20.97	20.04
		1900.0	21.18	20.15

## LTE band 4

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)	
			QPSK	16QAM
1.4MHz	1 RB high	1754.3	22	21.73
		1732.5	22.42	21.36
		1710.7	22.46	21.98
	1 RB low	1754.3	22.31	21.56
		1732.5	22.37	21.45
		1710.7	22.44	21.88
	50% RB mid	1754.3	21.37	21.33
		1732.5	21.31	21.24
		1710.7	21.6	21.56
	100% RB	1754.3	21.41	20.71
		1732.5	21.39	20.48
		1710.7	21.47	20.61
3MHz	1 RB high	1753.5	22.23	21.74
		1732.5	22.35	21.55
		1711.5	22.44	21.52
	1 RB low	1753.5	22.43	21.96
		1732.5	22.32	21.82
		1711.5	22.36	21.53
	50% RB mid	1753.5	21.26	20.41
		1732.5	21.32	20.54
		1711.5	21.53	20.65
	100% RB	1753.5	21.23	20.27
		1732.5	21.42	20.53
		1711.5	21.43	20.63
5MHz	1 RB high	1752.5	22.12	21.49
		1732.5	22.21	21.88
		1712.5	22.46	21.96
	1 RB low	1752.5	22.28	21.56
		1732.5	22.48	21.67
		1712.5	22.2	21.48
	50% RB mid	1752.5	21.21	21.29
		1732.5	21.37	21.37
		1712.5	21.63	21.64
	100% RB	1752.5	21.4	20.42
		1732.5	21.48	20.6
		1712.5	21.49	20.52
10MHz	1 RB high	1750	22.07	21.68

		1732.5	22.04	21.65
		1715	22.45	21.87
		1750	22.22	21.5
	1 RB low	1732.5	22.18	21.8
		1715	22.13	21.58
		1750	21.24	21.38
	50% RB mid	1732.5	21.42	21.41
		1715	21.53	21.44
		1750	21.36	20.47
	100% RB	1732.5	21.42	20.4
		1715	21.24	20.27
		1750	21.36	20.47
15MHz	1 RB high	1747.5	22.11	21.78
		1732.5	22.24	21.65
		1717.5	22.34	21.82
	1 RB low	1747.5	22.17	21.48
		1732.5	22.28	21.71
		1717.5	22.15	21.64
	50% RB mid	1747.5	21.24	21.25
		1732.5	21.35	21.34
		1717.5	21.48	21.49
	100% RB	1747.5	21.35	20.3
		1732.5	21.43	20.52
		1717.5	21.3	20.38
20MHz	1 RB high	1745	22.3	21.4
		1732.5	21.96	21.6
		1720	22.59	21.66
	1 RB low	1745	22.27	21.25
		1732.5	22.36	21.72
		1720	22.45	21.45
	50% RB mid	1745	21.4	21.42
		1732.5	21.27	21.26
		1720	21.35	21.36
	100% RB	1745	21.4	20.4
		1732.5	21.37	20.36
		1720	21.3	20.35

## LTE band 5

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)	
			QPSK	16QAM
1.4MHz	1 RB high	848.3	22.68	22.06
		836.5	22.95	22.54
		824.7	22.53	22.45
	1 RB low	848.3	22.78	22.41
		836.5	22.93	22.13
		824.7	22.58	21.96
	50% RB mid	848.3	22.89	22.8
		836.5	22.96	22.89
		824.7	22.83	22.82
	100% RB	848.3	21.88	21.08
		836.5	21.88	21.02
		824.7	21.65	20.74
3MHz	1 RB high	847.5	22.81	22.03
		836.5	22.76	22.14
		825.5	22.57	22.22
	1 RB low	847.5	22.95	22.15
		836.5	22.83	22.21
		825.5	22.75	21.99
	50% RB mid	847.5	21.8	20.93
		836.5	21.87	20.98
		825.5	21.77	20.65
	100% RB	847.5	21.84	20.76
		836.5	21.9	21.01
		825.5	21.62	20.64
5MHz	1 RB high	846.5	22.64	21.99
		836.5	22.74	21.46
		826.5	22.35	22.05
	1 RB low	846.5	22.73	21.96
		836.5	22.83	21.37
		826.5	22.55	21.95
	50% RB mid	846.5	21.98	21.99
		836.5	21.87	21.87
		826.5	21.66	21.65
	100% RB	846.5	21.92	20.98
		836.5	21.87	20.99
		826.5	21.68	20.63

10MHz	1 RB high	844.0	22.77	22.24
		836.5	22.7	22.08
		829.0	22.59	21.93
	1 RB low	844.0	22.86	22.09
		836.5	22.77	22
		829.0	22.98	22.99
	50% RB mid	844.0	21.83	21.83
		836.5	21.94	21.93
		829.0	21.62	21.71
	100% RB	844.0	21.89	20.97
		836.5	21.9	21.07
		829.0	21.87	21.05

## LTE band 7

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)	
			QPSK	16QAM
5MHz	1 RB high	2502.5	21.97	21.28
		2535	21.55	21.12
		2567.5	21.88	21.19
	1 RB low	2502.5	21.1	20.3
		2535	20.74	19.69
		2567.5	21.01	20.17
	50% RB mid	2502.5	21.93	21.93
		2535	21.53	21.52
		2567.5	20.85	20.83
	100% RB	2502.5	21.76	20.79
		2535	21.3	20.42
		2567.5	21.75	20.76
10MHz	1 RB high	2505	21.05	20.35
		2535	21.55	20.52
		2565	21.15	20.35
	1 RB low	2505	20.45	19.53
		2535	20.74	19.69
		2565	20.21	19.47
	50% RB mid	2505	21.72	21.74
		2535	21.53	21.52
		2565	21.58	21.55
	100% RB	2505	21.69	20.79
		2535	21.3	20.42
		2565	21.54	20.68
15MHz	1 RB high	2507.5	21.48	20.57
		2535	21.55	20.52
		2562.5	21.27	20.47
	1 RB low	2507.5	20.68	19.77
		2535	20.74	19.69
		2562.5	20.27	19.56
	50% RB mid	2507.5	21.33	21.34
		2535	21.53	21.52
		2562.5	21.62	21.59
	100% RB	2507.5	21.51	20.67
		2535	21.3	20.42



		2562.5	21.27	20.04
20MHz	1 RB high	2510	20.59	19.87
		2535	20.55	19.52
		2560	20.02	19.28
	1 RB low	2510	20.47	19.63
		2535	20.74	19.69
		2560	20.1	19.46
	50% RB mid	2510	20.82	20.73
		2535	20.53	20.52
		2560	20.59	20.54
	100% RB	2510	20.22	20.17
		2535	20.3	20.22
		2560	20.22	20.19

## LTE band 12

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)	
			QPSK	16QAM
1.4MHz	1 RB high	715.3	23.44	22.81
		707.5	23.34	22.41
		699.7	23.43	22.55
	1 RB low	715.3	23.45	23.29
		707.5	23.46	23.33
		699.7	23.45	22.28
	50% RB mid	715.3	23.47	23.36
		707.5	23.44	23.33
		699.7	23.39	23.38
	100% RB	715.3	22.49	21.83
		707.5	22.47	21.75
		699.7	22.43	21.72
3MHz	1 RB high	714.5	23.47	23.03
		707.5	23.44	22.81
		700.5	23.45	22.9
	1 RB low	714.5	23.41	23.01
		707.5	23.46	23.03
		700.5	23.35	22.9
	50% RB mid	714.5	22.83	21.96
		707.5	22.64	21.33
		700.5	22.66	21.66
	100% RB	714.5	22.37	21.51
		707.5	22.47	21.57
		700.5	22.48	21.75
5MHz	1 RB high	713.5	23.43	22.87
		707.5	23.41	22.81
		701.5	23.47	22.99
	1 RB low	713.5	23.46	23.04
		707.5	23.36	23.03
		701.5	23.32	22.75
	50% RB mid	713.5	22.85	22.75
		707.5	22.64	22.33
		701.5	22.74	22.66
	100% RB	713.5	22.49	21.66
		707.5	22.47	21.55
		701.5	22.38	21.52

10MHz	1 RB high	711.0	23.43	23.4
		707.5	23.24	22.81
		704.0	23.31	23.27
	1 RB low	711.0	23.45	23.34
		707.5	23.26	23.03
		704.0	23.44	23.33
	50% RB mid	711.0	22.79	22.66
		707.5	22.64	22.33
		704.0	22.78	22.59
	100% RB	711.0	22.46	21.76
		707.5	22.37	21.75
		704.0	22.49	21.85

### LTE band 13

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)	
			QPSK	16QAM
5MHz	1 RB high	779.5	23.4	22.76
		782	23.24	22
		784.5	23.16	21.94
	1 RB low	779.5	23.33	22.25
		782	23.4	22.57
		784.5	23.49	22.71
	50% RB mid	779.5	22.51	22.51
		782	22.5	22.35
		784.5	22.33	22.32
	100% RB	779.5	22.47	21.53
		782	22.33	21.48
		784.5	22.42	21.5
10MHz	1 RB high	782	22	21.58
		782	21.99	21.57
		784.5	21.99	21.57
	1 RB low	782	22.68	22.23
		782	22.66	22.22
		784.5	22.66	22.22
	50% RB mid	782	22.36	22.34
		782	22.42	22.43
		784.5	22.42	22.43
	100% RB	782	22.37	21.33
		782	22.46	21.32
		784.5	22.46	21.35

## LTE band 17

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)	
			QPSK	16QAM
5MHz	1 RB high	713.5	22.98	22.48
		710.0	22.83	22.13
		706.5	22.97	22.64
	1 RB low	713.5	22.97	22.39
		710.0	22.76	22
		706.5	22.29	22.16
	50% RB mid	713.5	21.19	21.13
		710.0	21.17	21.11
		706.5	21.3	21.16
	100% RB	713.5	21.1	21.05
		710.0	21.26	21.2
		706.5	21.06	21
10MHz	1 RB high	711	22.98	22.77
		710	22.92	22.13
		709	22.97	22.59
	1 RB low	711	22.97	22.7
		710	22.23	22
		709	22.28	22.81
	50% RB mid	711	21.19	21.28
		710	21.33	21.19
		709	21.05	21.33
	100% RB	711	21.1	21.02
		710	21.3	21.2
		709	21.67	21.26

## LTE band 25

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)	
			QPSK	16QAM
1.4MHz	1 RB high	1850.7	22.61	21.92
		1882.5	22.81	21.77
		1914.3	22.06	21.17
	1 RB low	1850.7	22.88	22.04
		1882.5	22.65	21.81
		1914.3	22.85	21.99
	50% RB mid	1850.7	22.49	21.88
		1882.5	22.39	21.69
		1914.3	22.43	21.91

	100% RB	1850.7	21.8	20.98
		1882.5	21.65	20.83
		1914.3	21.88	20.97
3MHz	1 RB high	1851.5	22.45	21.14
		1882.5	22.48	21.97
		1913.5	22.03	21.14
	1 RB low	1851.5	22.85	21.33
		1882.5	22.53	21.78
		1913.5	22.14	21.33
	50% RB mid	1851.5	21.6	20.72
		1882.5	21.71	20.64
		1913.5	21.92	20
	100% RB	1851.5	21.66	20.67
		1882.5	21.6	20.79
		1913.5	21.93	20.95
5MHz	1 RB high	1852.5	22.31	21.82
		1882.5	22.55	21.09
		1912.5	22.98	21.25
	1 RB low	1852.5	22.75	21.98
		1882.5	22.57	21.1
		1912.5	22.98	21.32
	50% RB mid	1852.5	21.55	21.55
		1882.5	21.68	21.68
		1912.5	21.89	21.87
	100% RB	1852.5	21.65	20.52
		1882.5	21.61	20.63
		1912.5	21.21	20.29
10MHz	1 RB high	1855	22.01	21.2
		1882.5	22.62	21.83
		1910	22.98	21.93
	1 RB low	1855	22.75	21.38
		1882.5	22.42	21.04
		1910	22.54	21.74
	50% RB mid	1855	21.56	21.56
		1882.5	21.68	21.69
		1910	21.08	21.06
	100% RB	1855	21.64	20.62
		1882.5	21.62	20.66
		1910	21.01	20.6
15MHz	1 RB high	1857.5	21.17	21.35

		1882.5	21.97	21.54	
		1907.5	21.86	21.42	
		1857.5	21.94	21.33	
	1 RB low		1882.5	21.74	21.39
			1907.5	21.68	21.55
			1857.5	21.63	21.62
	50% RB mid		1882.5	21.72	21.72
			1907.5	21.6	21.6
			1857.5	21.56	20.48
	100% RB		1882.5	21.64	20.7
			1907.5	21.98	20.79
			1860	21.71	20.93
20MHz	1 RB high	1882.5	21.09	20.41	
		1905	21.71	20.93	
		1860	21.93	20.55	
	1 RB low		1882.5	21.98	20.31
			1905	21.04	20.29
			1860	21.58	21.55
	50% RB mid		1882.5	21.77	21.69
			1905	21.98	21.74
			1860	21.65	20.61
	100% RB		1882.5	21.54	20.62
			1905	21.68	20.68
			1860	21.65	20.61

## LTE band 26

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	
1.4MHz	1 RB high	814.7	22.96	21.71	
		831.5	22.44	21.6	
		848.3	22.27	21.52	
	1 RB low		814.7	22.03	21.31
			831.5	22.43	21.42
			848.3	22.25	21.54
	50% RB mid		814.7	22.2	20.98
			831.5	22.25	21.18
			848.3	22.21	21.45
	100% RB		814.7	21.19	20.31
			831.5	21.21	20.57

		848.3	21.21	20.3
3MHz	1 RB high	815.5	22.25	21.54
		831.5	22.33	21.44
		847.5	22.21	21.37
	1 RB low	815.5	22.26	21.45
		831.5	22.29	21.48
		847.5	22.34	21.56
	50% RB mid	815.5	21.21	20.32
		831.5	21.21	20.14
		847.5	21.22	20.31
	100% RB	815.5	21.2	20.13
		831.5	21.24	20.16
		847.5	21.29	20.32
5MHz	1 RB high	816.5	22.01	21.42
		831.5	22.09	21.63
		846.5	22.07	21.47
	1 RB low	816.5	22.15	21.57
		831.5	22.07	20.44
		846.5	22.14	21.39
	50% RB mid	816.5	21.19	20.28
		831.5	21.24	20.31
		846.5	21.19	20.01
	100% RB	816.5	21.18	20.15
		831.5	21.26	20.38
		846.5	21.25	20.32
10MHz	1 RB high	820	22.29	21.67
		831.5	22.11	21.62
		844	22.23	21.62
	1 RB low	820	22.22	21.54
		831.5	22.27	21.58
		844	22.41	21.62
	50% RB mid	820	21.29	20.37
		831.5	21.29	20.33
		844	21.18	20.34
	100% RB	820	21.31	20.28
		831.5	21.27	20.23
		844	21.2	20.28
15MHz	1 RB high	822.5	22.23	21.89
		831.5	22.23	21.63
		841.5	22.28	22.11

	1 RB low	822.5	22.36	21.68
		831.5	22.32	21.66
		841.5	22.47	21.87
	50% RB mid	822.5	21.33	20.31
		831.5	21.26	20.15
		841.5	21.14	20.24
	100% RB	822.5	21.26	20.34
		831.5	21.26	20.24
		841.5	21.19	20.29



**LTE band 41**

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)	
			QPSK	16QAM
5MHz	1 RB high	2537.5	22.4	21.34
		2593.0	22.45	21.35
		2652.5	22.36	21.31
	1 RB low	2537.5	22.45	21.33
		2593.0	22.67	21.54
		2652.5	21.97	21.78
	50% RB mid	2537.5	21.56	21.45
		2593.0	21.67	21.55
		2652.5	21.73	21.65
	100% RB	2537.5	21.53	21.4
		2593.0	21.39	21.3
		2652.5	21.66	21.54
10MHz	1 RB high	2540.0	22.17	22.1
		2593.0	22.48	22.38
		2650.0	22.59	22.45
	1 RB low	2540.0	22.05	22
		2593.0	22.24	22.13
		2650.0	22.34	22.13
	50% RB mid	2540.0	21.54	21.34
		2593.0	21.98	21.53
		2650.0	22.04	21.87
	100% RB	2540.0	21.76	20.87
		2593.0	21.75	20.89
		2650.0	21.67	20.98
15MHz	1 RB high	2542.5	22.54	21.98
		2593.0	22.12	21.56
		2647.5	22.47	21.76
	1 RB low	2542.5	21.97	21.35
		2593.0	21.76	21.44
		2647.5	21.56	21.56
	50% RB mid	2542.5	21.55	21.98
		2593.0	21.56	20.94
		2647.5	21.52	20.34
	100% RB	2542.5	21.13	20.45
		2593.0	21.17	20.7
		2647.5	21.78	20.78

20MHz	1 RB high	2545.0	22.78	21.19
		2593.0	22.45	21.98
		2645.0	22.43	21.65
	1 RB low	2545.0	22.89	21.22
		2593.0	22.56	21.45
		2645.0	22.81	21.09
	50% RB mid	2545.0	21.75	21.87
		2593.0	21.45	20.54
		2645.0	21.56	20.78
	100% RB	2545.0	21.78	20.65
		2593.0	21.65	20.76
		2645.0	21.78	20.34

## LTE band 66

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)	
			QPSK	16QAM
1.4MHz	1 RB high	1710.7	22.39	22.21
		1745	22.3	22.23
		1779.3	22.41	22.18
	1 RB low	1710.7	22.43	22.28
		1745	22.33	22.18
		1779.3	22.41	22.22
	50% RB mid	1710.7	21.12	21.08
		1745	21.44	21.39
		1779.3	21.38	21.31
	100% RB	1710.7	20.2	20.15
		1745	20.57	20.22
		1779.3	20.76	20.58
3MHz	1 RB high	1711.5	22.31	22.24
		1745	22.36	22.26
		1778.5	22.6	22.33
	1 RB low	1711.5	22.43	22.06
		1745	22.41	22
		1778.5	22.45	22.06
	50% RB mid	1711.5	21.26	21.11
		1745	21.53	21.41
		1778.5	21.75	21.57
	100% RB	1711.5	20.23	20.17
		1745	20.58	20.51

		1778.5	20.63	20.45
5MHz	1 RB high	1712.5	22.47	22.39
		1745	22.35	22.29
		1777.5	22.16	22.06
	1 RB low	1712.5	22.34	22.39
		1745	22.46	22.44
		1777.5	22.2	22.18
	50% RB mid	1712.5	21.17	21.14
		1745	21.43	21.35
		1777.5	21.3	21.24
	100% RB	1712.5	20.03	20.13
		1745	20.56	20.49
		1777.5	20.49	20.32
10MHz	1 RB high	1715	22.02	22.08
		1745	22.48	22.29
		1775	22.4	22.11
	1 RB low	1715	22.4	22.37
		1745	22.39	22.18
		1775	22.49	22.22
	50% RB mid	1715	21.03	21.06
		1745	21.6	21.54
		1775	21.68	21.69
	100% RB	1715	20.07	20.19
		1745	20.53	20.57
		1775	20.67	20.62
15MHz	1 RB high	1717.5	22.14	22.09
		1745	22.47	22.27
		1772.5	22.34	22.12
	1 RB low	1717.5	22.4	22.37
		1745	22.25	22.16
		1772.5	22.15	22.04
	50% RB mid	1717.5	21.03	21.01
		1745	21.65	21.57
		1772.5	21.48	21.29
	100% RB	1717.5	20.12	20.22
		1745	20.51	20.49
		1772.5	20.3	20.18
20MHz	1 RB high	1720	22.09	22.08
		1745	22.32	22.11

	1 RB low	1770	22.47	22.24	
		1720	22.25	22.12	
		1745	22.39	22.22	
	50% RB mid	1770	22.42	22.48	
		1720	21.24	21.14	
		1745	21.72	21.69	
	100% RB	1770	21.63	21.62	
		1720	20.29	20.06	
		1745	20.59	20.38	
			1770	20.6	20.11

**A.1.3 Radiated**

**A.1.3.1 Description**

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

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

Rule Part 27.50(d) specifies "Fixed, mobile, and portable (handheld) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP".

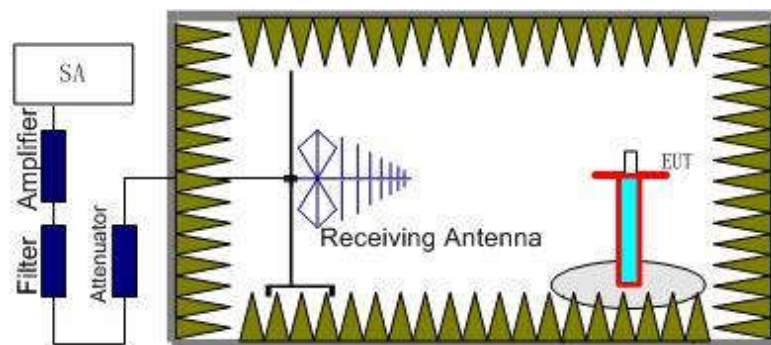
Rule Part 27.50(h)(2) specifies "Mobile stations are limited to 2.0 watts EIRP".

Rule Part 27.50(c) specifies "Portable stations (hand-held de-vices) are limited to 3 watts ERP".

**A.1.3.2 Method of Measurement**

The measurements procedures in TIA-603E-2016 are used.

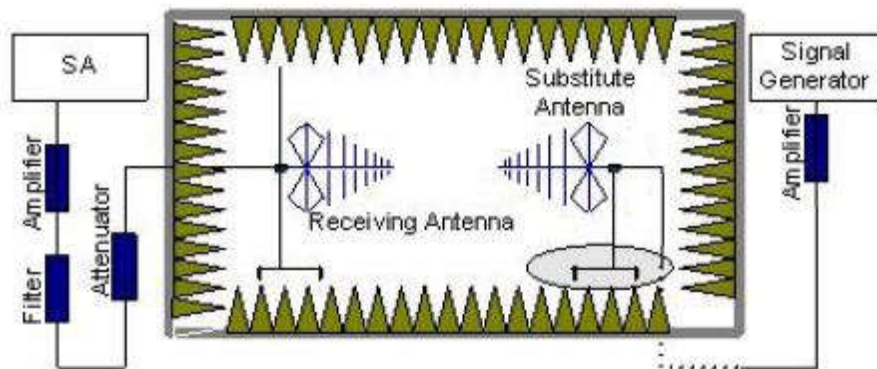
1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected 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. The EUT is then put into continuously transmitting mode at its maximum power level during

the test. And the maximum value of the receiver should be recorded as ( $P_r$ ).

- The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



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. Adjust the level of the signal generator output until the value of the receiver reaches 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.

- An amplifier should be connected to the Signal Source output port. And the cable should be connected 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 (unit dBi) and known input power.
- ERP can be calculated from EIRP by subtracting the gain of the dipole,  $ERP = EIRP - 2.15$ .

### A.1.3.3 Measurement result

#### LTE Band 2- EIRP 24. 232(b)

Limits:  $\leq 33\text{dBm}$  (2W)

#### LTE Band 2\_1.4MHz\_QPSK

Frequency(MHz)	$P_{Mea}$ (dBm)	$P_{cl}$ (dB)	$P_{Ag}$ (dB)	$G_a$ Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1850.70	-13.8	4.6	36.0	2.8	22.3	33.00	10.7	H
1880.00	-13.41	4.6	35.6	2.8	22.29	33.00	10.71	H
1909.30	-12.96	4.7	35.9	2.8	22.74	33.00	10.26	H

#### LTE Band 2\_3MHz\_QPSK

Frequency(MHz)	$P_{Mea}$ (dBm)	$P_{cl}$ (dB)	$P_{Ag}$ (dB)	$G_a$ Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1851.50	-13.95	4.6	36.0	2.8	22.15	33.00	10.85	H
1880.00	-13.26	4.6	35.6	2.8	22.44	33.00	10.56	H

1908.50	-13.06	4.7	35.9	2.8	22.64	33.00	10.36	H
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**LTE Band 2\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>c</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1852.50	-14	4.6	36.0	2.8	22.1	33.00	10.9	H
1880.00	-13.52	4.6	35.6	2.8	22.18	33.00	10.82	H
1907.50	-13.14	4.7	35.9	2.8	22.56	33.00	10.44	H

**LTE Band 2\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>c</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1855.00	-13.9	4.6	36.0	2.8	22.2	33.00	10.8	H
1880.00	-13.37	4.6	35.6	2.8	22.33	33.00	10.67	H
1905.00	-13.16	4.7	35.9	2.8	22.54	33.00	10.46	H

**LTE Band 2\_15MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>c</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1857.50	-13.83	4.6	36.0	2.8	22.27	33.00	10.73	H
1880.00	-13.31	4.6	35.6	2.8	22.39	33.00	10.61	H
1902.50	-13.2	4.7	36.0	2.8	22.5	33.00	10.5	H

**LTE Band 2\_20 MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>c</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1860.00	-14.35	4.6	36.0	2.8	21.75	33.00	11.25	H
1880.00	-13.2	4.6	35.6	2.8	22.5	33.00	10.5	H
1900.00	-12.88	4.7	36.4	2.8	22.82	33.00	10.18	H

### LTE Band 2\_1.4MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1850.70	-14.19	4.6	36.0	2.8	21.91	33.00	11.09	H
1880.00	-13.8	4.6	35.6	2.8	21.9	33.00	11.1	H
1909.30	-13.18	4.7	35.9	2.8	22.52	33.00	10.48	H

### LTE Band 2\_3MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1851.50	-14.22	4.6	36.0	2.8	21.88	33.00	11.12	H
1880.00	-13.66	4.6	35.6	2.8	22.04	33.00	10.96	H
1908.50	-13.12	4.7	35.9	2.8	22.58	33.00	10.42	H

### LTE Band 2\_5MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1852.50	-14.3	4.6	36.0	2.8	21.8	33.00	11.2	H
1880.00	-13.75	4.6	35.6	2.8	21.95	33.00	11.05	H
1907.50	-13.24	4.7	35.9	2.8	22.46	33.00	10.54	H

### LTE Band 2\_10MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1855.00	-13.98	4.6	36.0	2.8	22.12	33.00	10.88	H
1880.00	-13.44	4.6	35.6	2.8	22.26	33.00	10.74	H
1905.00	-12.91	4.7	35.9	2.8	22.79	33.00	10.21	H

### LTE Band 2\_15MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1857.50	-13.9	4.6	36.0	2.8	22.2	33.00	10.8	H
1880.00	-13.31	4.6	35.6	2.8	22.39	33.00	10.61	H
1902.50	-13.27	4.7	36.0	2.8	22.43	33.00	10.57	H

### LTE Band 2\_20 MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1860.00	-14.43	4.6	36.0	2.8	21.67	33.00	11.33	H
1880.00	-13.28	4.6	35.6	2.8	22.42	33.00	10.58	H
1900.00	-13.19	4.7	36.4	2.8	22.51	33.00	10.49	H

$$\text{Peak EIRP(dBm)} = P_{\text{Mea}}(-14.43\text{dBm}) - G_a(4.7\text{dBi}) - P_{\text{Ag}}(36\text{dB}) - P_{\text{cl}}(4.6\text{dB}) = 21.67\text{dBm}$$

## LTE Band 4- EIRP 27.50(d)

Limits: ≤30dBm (1W)

### LTE Band 4\_1.4MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1710.70	-13.25	4.4	36.2	3	23.25	30.00	6.75	H
1732.50	-13.95	4.4	36.1	3	22.45	30.00	7.55	H
1754.30	-14.1	4.5	36.4	2.9	22.50	30.00	7.5	H

### LTE Band 4\_3MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1711.50	-13.46	4.4	36.2	3	23.04	30.00	6.96	H
1732.50	-13.75	4.4	36.1	3	22.65	30.00	7.35	H
1753.50	-14.12	4.5	36.4	2.9	22.48	30.00	7.52	H

### LTE Band 4\_5MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1712.50	-13.62	4.4	36.2	3	22.88	30.00	7.12	H
1732.50	-13.76	4.4	36.1	3	22.64	30.00	7.36	H
1752.50	-13.94	4.5	36.5	2.9	22.66	30.00	7.34	H

### LTE Band 4\_10MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1715.00	-13.45	4.4	36.2	3	23.05	30.00	6.95	H
1732.50	-13.76	4.4	36.1	3	22.64	30.00	7.36	H
1750.50	-14.19	4.5	36.1	2.9	22.41	30.00	7.59	H

### LTE Band 4\_15MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1717.50	-13.44	4.4	36.2	3	23.06	30.00	6.94	H
1732.50	-13.86	4.4	36.1	3	22.54	30.00	7.46	H
1747.50	-14.25	4.5	36.5	2.9	22.35	30.00	7.65	H

### LTE Band 4\_20MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1720.00	-13.47	4.4	36.2	3	23.03	30.00	6.97	H
1732.50	-13.87	4.4	36.1	3	22.53	30.00	7.47	H
1745.00	-14.16	4.5	35.8	2.9	22.44	30.00	7.56	H



### LTE Band 4\_1.4MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1710.70	-13.43	4.4	36.2	3	23.07	30.00	6.93	H
1732.50	-13.75	4.4	36.1	3	22.65	30.00	7.35	H
1754.30	-14.17	4.5	36.4	2.9	22.43	30.00	7.57	H

### LTE Band 4\_3MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1711.50	-13.24	4.4	36.2	3	23.26	30.00	6.74	H
1732.50	-13.63	4.4	36.1	3	22.77	30.00	7.23	H
1753.50	-14.33	4.5	36.4	2.9	22.27	30.00	7.73	H

### LTE Band 4\_5MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1712.50	-13.71	4.4	36.2	3	22.79	30.00	7.21	H
1732.50	-13.63	4.4	36.1	3	22.77	30.00	7.23	H
1752.50	-14.17	4.5	36.5	2.9	22.43	30.00	7.57	H

### LTE Band 4\_10MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1715.00	-13.53	4.4	36.2	3	22.97	30.00	7.03	H
1732.50	-13.51	4.4	36.1	3	22.89	30.00	7.11	H
1750.50	-14.11	4.5	36.1	2.9	22.49	30.00	7.51	H

### LTE Band 4\_15MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1717.50	-13.42	4.4	36.2	3	23.08	30.00	6.92	H
1732.50	-13.69	4.4	36.1	3	22.71	30.00	7.29	H
1747.50	-14.01	4.5	36.5	2.9	22.59	30.00	7.41	H

### LTE Band 4\_20MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1720.00	-13.51	4.4	36.2	3	22.99	30.00	7.01	H
1732.50	-14.13	4.4	36.1	3	22.27	30.00	7.73	H
1745.00	-14.25	4.5	35.8	2.9	22.35	30.00	7.65	H

$$\text{Peak EIRP(dBm)} = P_{\text{Mea}}(-13.51\text{dBm}) - G_a(4.7\text{dBi}) - P_{\text{Ag}}(36.2\text{dB}) - P_{\text{cl}}(4.4\text{dB}) = 22.99\text{dBm}$$

**LTE Band 5- ERP 22.913(a)**

**Limits:** ≤38.45dBm (7W)

**LTE Band 5\_1.4MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
824.70	-6.24	3.1	36.8	-2.87	24.79	38.45	13.66	H
836.50	-6.62	3.1	37.1	-3.11	24.17	38.45	14.28	H
848.30	-6.89	3.1	36.9	-3.11	23.9	38.45	14.55	H

**LTE Band 5\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
825.50	-6.2	3.1	36.9	-2.87	24.83	38.45	13.62	H
836.50	-6.79	3.1	37.1	-3.11	24	38.45	14.45	H
847.50	-7.17	3.1	37.0	-3.11	23.62	38.45	14.83	H

**LTE Band 5\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
826.50	-6.52	3.1	37.0	-2.87	24.51	38.45	13.94	H
836.50	-6.89	3.1	37.1	-3.11	23.9	38.45	14.55	H
846.50	-7.33	3.1	37.0	-3.11	23.46	38.45	14.99	H

**LTE Band 5\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
829.00	-6.18	3.1	37.0	-2.87	24.85	38.45	13.6	H
836.50	-6.93	3.1	37.1	-3.11	23.86	38.45	14.59	H
844.00	-7.31	3.1	36.9	-3.11	23.48	38.45	14.97	H

### LTE Band 5\_1.4MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
824.70	-6.38	3.1	36.8	-2.87	24.65	38.45	13.8	H
836.50	-6.95	3.1	37.1	-3.11	23.84	38.45	14.61	H
848.30	-7.13	3.1	36.9	-3.11	23.66	38.45	14.79	H

### LTE Band 5\_3MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
825.50	-6.38	3.1	36.9	-2.87	24.65	38.45	13.8	H
836.50	-6.92	3.1	37.1	-3.11	23.87	38.45	14.58	H
847.50	-7.08	3.1	37.0	-3.11	23.71	38.45	14.74	H

### LTE Band 5\_5MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
826.50	-6.44	3.1	37.0	-2.87	24.59	38.45	13.86	H
836.50	-6.95	3.1	37.1	-3.11	23.84	38.45	14.61	H
846.50	-7.27	3.1	37.0	-3.11	23.52	38.45	14.93	H

### LTE Band 5\_10MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
829.00	-6.62	3.1	37.0	-2.87	24.41	38.45	14.04	H
836.50	-6.83	3.1	37.1	-3.11	23.96	38.45	14.49	H
844.00	-7.54	3.1	36.9	-3.11	23.25	38.45	15.2	H

Peak ERP(dBm)=P<sub>Mea</sub>(-6.62dBm)-G<sub>a</sub>(-2.87dBi)-P<sub>Ag</sub>(37dB)-P<sub>cl</sub>(3.1dB)-2.15dB = 24.41dBm

## LTE Band 7- EIRP 27.50(h)(2)

Limits: ≤33 dBm (2W)

### LTE Band 7\_5MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>c</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
2502.50	-10.94	5.4	34.7	3.7	23.96	33.00	9.04	H
2535.00	-11.86	5.4	35.1	3.8	23.64	33.00	9.36	H
2567.50	-11.2	5.4	34.8	3.8	24.30	33.00	8.7	H

### LTE Band 7\_10MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>c</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
2505.00	-10.37	5.4	34.7	3.7	24.53	33.00	8.47	H
2535.00	-11.53	5.4	35.1	3.8	23.97	33.00	9.03	H
2565.00	-11.42	5.4	34.8	3.8	24.08	33.00	8.92	H

### LTE Band 7\_15MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>c</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
2507.50	-10.51	5.4	34.7	3.7	24.39	33.00	8.61	H
2535.00	-11.47	5.4	35.1	3.8	24.03	33.00	8.97	H
2562.50	-11.45	5.4	34.8	3.8	24.05	33.00	8.95	H

### LTE Band 7\_20MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>c</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
2510.00	-10.71	5.4	34.7	3.7	24.19	33.00	8.81	H
2535.00	-11.56	5.4	35.1	3.8	23.94	33.00	9.06	H
2560.00	-11.63	5.4	34.8	3.8	23.87	33.00	9.13	H

### LTE Band 7\_5MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
2502.50	-10.55	5.4	34.7	3.7	24.35	33.00	8.65	H
2535.00	-11.41	5.4	35.1	3.8	24.09	33.00	8.91	H
2567.50	-11.57	5.4	34.8	3.8	23.93	33.00	9.07	H

### LTE Band 7\_10MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
2505.00	-10.31	5.4	34.7	3.7	24.59	33.00	8.41	H
2535.00	-11.29	5.4	35.1	3.8	24.21	33.00	8.79	H
2565.00	-11.68	5.4	34.8	3.8	23.82	33.00	9.18	H

### LTE Band 7\_15MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
2507.50	-10.37	5.4	34.7	3.7	24.53	33.00	8.47	H
2535.00	-11.17	5.4	35.1	3.8	24.33	33.00	8.67	H
2562.50	-11.64	5.4	34.8	3.8	23.86	33.00	9.14	H

### LTE Band 7\_20MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
2510.00	-10.6	5.4	34.7	3.7	24.30	33.00	8.7	H
2535.00	-11.27	5.4	35.1	3.8	24.23	33.00	8.77	H
2560.00	-11.35	5.4	34.8	3.8	24.15	33.00	8.85	H

Peak EIRP(dBm) = P<sub>Mea</sub>(-10.6dBm) - G<sub>a</sub> (5.6dBi) - P<sub>Ag</sub> (34.7dB) - P<sub>cl</sub> (5.4dB) = 24.30dBm

**LTE Band 12 - ERP 27.50(c)(10)**

**Limits:** ≤34.77dBm (3W)

**LTE Band 12\_1.4MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
699.70	-14.14	2.8	37.1	4.7	21.96	34.77	12.81	H
707.50	-12.7	2.8	37.1	4.7	23	34.77	11.77	H
715.30	-12.34	2.8	37.3	4.5	23.36	34.77	11.41	H

**LTE Band 12\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
700.50	-14.26	2.8	37.1	4.7	21.84	34.77	12.93	H
707.50	-12.74	2.8	37.1	4.7	22.96	34.77	11.81	H
714.50	-12.34	2.8	37.1	4.5	23.36	34.77	11.41	H

**LTE Band 12\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
701.50	-14.61	2.8	37.1	4.7	21.49	34.77	13.28	H
707.50	-12.81	2.8	37.1	4.7	22.89	34.77	11.88	H
713.50	-12.42	2.8	37.1	4.5	23.28	34.77	11.49	H

**LTE Band 12\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
704.00	-15.24	2.8	37.1	4.7	20.86	34.77	13.91	H
707.50	-12.8	2.8	37.1	4.7	22.9	34.77	11.87	H
711.00	-12.58	2.8	37.1	4.5	23.12	34.77	11.65	H

### LTE Band 12\_1.4MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
699.70	-13.94	2.8	37.1	4.7	22.16	34.77	12.61	H
707.50	-12.7	2.8	37.1	4.7	23	34.77	11.77	H
715.30	-12.37	2.8	37.3	4.5	23.33	34.77	11.44	H

### LTE Band 12\_3MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
700.50	-14.23	2.8	37.1	4.7	21.87	34.77	12.9	H
707.50	-12.65	2.8	37.1	4.7	23.05	34.77	11.72	H
714.50	-12.18	2.8	37.1	4.5	23.52	34.77	11.25	H

### LTE Band 12\_5MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
701.50	-14.57	2.8	37.1	4.7	21.53	34.77	13.24	H
707.50	-12.86	2.8	37.1	4.7	22.84	34.77	11.93	H
713.50	-12.54	2.8	37.1	4.5	23.16	34.77	11.61	H

### LTE Band 12\_10MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
704.00	-15.33	2.8	37.1	4.7	20.77	34.77	14	H
707.50	-12.82	2.8	37.1	4.7	22.88	34.77	11.89	H
711.00	-12.41	2.8	37.1	4.5	23.29	34.77	11.48	H

Peak ERP(dBm)=P<sub>Mea</sub>(-15.33dBm)-G<sub>a</sub>(4.7dBi)-P<sub>Ag</sub>(36dB)-P<sub>cl</sub>(4.6dB)-2.15dB = 20.77dBm

**LTE Band 13 - ERP 27.50(c)(10)**

**Limits:** ≤34.77dBm (3W)

**LTE Band 13\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
779.5	-16.33	2.8	37.1	4.7	22.67	34.77	12.1	H
782	-15.93	2.8	37.1	4.7	23.07	34.77	11.7	H
784.5	-16	2.8	37.1	4.5	22.8	34.77	11.97	H

**LTE Band 13\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
782	-16.82	2.8	37.1	4.7	22.18	34.77	12.59	H

**LTE Band 13\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
701.50	-16.8	2.8	37.1	4.7	22.2	34.77	12.57	H
707.50	-15.62	2.8	37.1	4.7	23.38	34.77	11.39	H
713.50	-16.07	2.8	37.1	4.5	22.73	34.77	12.04	H

**LTE Band 13\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
782	-17.26	2.8	37.1	4.7	21.74	34.77	13.03	H

Peak ERP(dBm)=P<sub>Mea</sub>(-17.26dBm)-G<sub>a</sub>(4.7dBi)-P<sub>Ag</sub>(37.1dB)-P<sub>cl</sub>(2.8dB)-2.15dB = 21.74dBm



**LTE Band 17- EIRP 27.50(c)(10)**

**Limits:** ≤34.77dBm (3W)

**LTE Band 17\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
706.50	-16.33	2.8	37.1	4.7	22.67	34.77	12.1	H
710.00	-16.01	2.8	37.1	4.7	22.99	34.77	11.78	H
713.50	-15.62	2.8	37.1	4.5	23.18	34.77	11.59	H

**LTE Band 17\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
709.00	-16.38	2.8	37.1	4.7	22.62	34.77	12.15	H
710.00	-16.11	2.8	37.1	4.7	22.89	34.77	11.88	H
711.00	-15.93	2.8	37.1	4.5	22.87	34.77	11.9	H

**LTE Band 17\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
706.50	-16.66	2.8	37.1	4.7	22.34	34.77	12.43	H
710.00	-16.41	2.8	37.1	4.7	22.59	34.77	12.18	H
713.50	-16	2.8	37.1	4.5	22.80	34.77	11.97	H

**LTE Band 17\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
709.00	-16.82	2.8	37.1	4.7	22.18	34.77	12.59	H
710.00	-16.4	2.8	37.1	4.7	22.60	34.77	12.17	H
711.00	-16.11	2.8	37.1	4.5	22.69	34.77	12.08	H

Peak ERP(dBm)=P<sub>Mea</sub>(-16.82dBm)-G<sub>a</sub>(4.7dBi)-P<sub>Ag</sub>(37.1dB)-P<sub>cl</sub>(2.8dB)-2.15dB=22.18dBm

**LTE Band 25 - ERP 27.50(c)(10)**

**Limits:** ≤34.77dBm (3W)

**LTE Band 25\_1.4MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1850.7	-13.55	4.6	36.0	2.8	20.65	34.77	14.12	H
1882.5	-13.16	4.6	36.1	2.8	21.14	34.77	13.63	H
1914.3	-11.55	4.7	35.9	2.8	22.45	34.77	12.32	H

**LTE Band 25\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1851.5	-13.54	4.6	36.0	2.8	20.66	34.77	14.11	H
1882.5	-13.19	4.6	36.1	2.8	21.11	34.77	13.66	H
1913.5	-11.31	4.7	35.9	2.8	22.69	34.77	12.08	H

**LTE Band 25\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1852.5	-13.74	4.6	36	2.8	20.46	34.77	14.31	H
1882.5	-13.2	4.6	36.1	2.8	21.1	34.77	13.67	H
1912.5	-11.39	4.7	35.9	2.8	22.61	34.77	12.16	H

**LTE Band 25\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1855	-14.4	4.6	36	2.8	19.8	34.77	14.97	H
1882.5	-13.14	4.6	36.1	2.8	21.16	34.77	13.61	H
1910	-11.84	4.7	35.9	2.8	22.16	34.77	12.61	H

**LTE Band 25\_15MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1857.5	-14.37	4.6	36	2.8	19.83	34.77	14.94	H
1882.5	-13.03	4.6	36.1	2.8	21.27	34.77	13.5	H
1907.5	-12.12	4.7	35.9	2.8	21.88	34.77	12.89	H

**LTE Band 25\_20MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1860	-14.7	4.6	36	2.8	19.5	34.77	15.27	H
1882.5	-13.18	4.6	36.1	2.8	21.12	34.77	13.65	H

1905	-12.46	4.7	35.9	2.8	21.54	34.77	13.23	H
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### LTE Band 25\_1.4MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1850.7	-13.88	4.6	36.0	2.8	20.32	34.77	14.45	H
1882.5	-13.5	4.6	36.1	2.8	20.8	34.77	13.97	H
1914.3	-11.83	4.7	35.9	2.8	22.17	34.77	12.6	H

### LTE Band 25\_3MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1851.5	-13.93	4.6	36.0	2.8	20.27	34.77	14.5	H
1882.5	-13.37	4.6	36.1	2.8	20.93	34.77	13.84	H
1913.5	-11.54	4.7	35.9	2.8	22.46	34.77	12.31	H

### LTE Band 25\_5MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1852.5	-14.04	4.6	36.0	2.8	20.16	34.77	14.61	H
1882.5	-14.21	4.6	36.1	2.8	20.09	34.77	14.68	H
1912.5	-11.59	4.7	35.9	2.8	22.41	34.77	12.36	H

### LTE Band 25\_10MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1855	-14.7	4.6	36.0	2.8	19.5	34.77	15.27	H
1882.5	-13.21	4.6	36.1	2.8	21.09	34.77	13.68	H
1910	-11.97	4.7	35.9	2.8	22.03	34.77	12.74	H

### LTE Band 25\_15MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1857.5	-14.68	4.6	36.0	2.8	19.52	34.77	15.25	H
1882.5	-13.09	4.6	36.1	2.8	21.21	34.77	13.56	H
1907.5	-12.25	4.7	35.9	2.8	21.75	34.77	13.02	H

### LTE Band 25\_20MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1860	-14.78	4.6	36.0	2.8	19.42	34.77	15.35	H
1882.5	-13.31	4.6	36.1	2.8	20.99	34.77	13.78	H

1905	-12.61	4.7	35.9	2.8	21.39	34.77	13.38	H
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Peak ERP(dBm)= $P_{\text{Mea}}(-12.61\text{dBm})-G_{\text{a}}(2.8\text{dBi})-P_{\text{Ag}}(35.9\text{dB})-P_{\text{cl}}(4.7\text{dB})-2.15\text{dB} = 21.39\text{dBm}$

## LTE Band 26 - ERP 27.50(c)(10)

Limits: ≤34.77dBm (3W)

### LTE Band 26\_1.4MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
814.7	-13.81	3.0	37.0	4.7	24.89	34.77	9.88	H
831.5	-14.18	3.1	36.8	4.7	24.22	34.77	10.55	H
848.3	-14.59	3.1	36.9	4.5	23.71	34.77	11.06	H

### LTE Band 26\_3MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
815.5	-13.47	3.0	36.9	4.7	25.13	34.77	9.64	H
831.5	-14.51	3.1	36.8	4.7	23.89	34.77	10.88	H
847.5	-14.57	3.1	37.0	4.5	23.83	34.77	10.94	H

### LTE Band 26\_5MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
816.5	-13.56	3.0	36.9	4.7	25.04	34.77	9.73	H
831.5	-14.46	3.1	36.8	4.7	23.94	34.77	10.83	H
846.5	-13.63	3.1	36.0	4.5	23.77	34.77	11	H

### LTE Band 26\_10MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
820	-13.79	3.0	37.0	4.7	24.91	34.77	9.86	H
831.5	-14.59	3.1	36.8	4.7	23.81	34.77	10.96	H
844	-14.8	3.1	36.9	4.5	23.5	34.77	11.27	H

### LTE Band 26\_15MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
822.5	-13.72	3.0	36.9	4.7	24.88	34.77	9.89	H
831.5	-14.68	3.1	36.8	4.7	23.72	34.77	11.05	H
841.5	-15.07	3.1	36.9	4.5	23.23	34.77	11.54	H

### LTE Band 26\_1.4MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
814.7	-13.82	3.0	37.0	4.7	24.88	34.77	9.89	H
831.5	-14.52	3.1	36.8	4.7	23.88	34.77	10.89	H
848.3	-14.63	3.1	36.9	4.5	23.67	34.77	11.1	H

### LTE Band 26\_3MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
815.5	-13.63	3.0	36.9	4.7	24.97	34.77	9.8	H
831.5	-14.44	3.1	36.8	4.7	23.96	34.77	10.81	H
847.5	-14.6	3.1	37.0	4.5	23.8	34.77	10.97	H

### LTE Band 26\_5MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
816.5	-13.85	3.0	36.9	4.7	24.75	34.77	10.02	H
831.5	-14.87	3.1	36.8	4.7	23.53	34.77	11.24	H
846.5	-13.79	3.1	36.0	4.5	23.61	34.77	11.16	H

### LTE Band 26\_10MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
820	-13.77	3.0	37.0	4.7	24.93	34.77	9.84	H
831.5	-14.6	3.1	36.8	4.7	23.8	34.77	10.97	H
844	-14.75	3.1	36.9	4.5	23.55	34.77	11.22	H

### LTE Band 26\_15MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
822.5	-13.57	3.0	36.9	4.7	25.03	34.77	9.74	H
831.5	-14.77	3.1	36.8	4.7	23.63	34.77	11.14	H
841.5	-14.98	3.1	36.9	4.5	23.32	34.77	11.45	H

Peak ERP(dBm)=P<sub>Mea</sub>(-13.57dBm)-G<sub>a</sub>(4.7dBi)-P<sub>Ag</sub>(36.9dB)-P<sub>cl</sub>(3dB)-2.15dB = 25.03dBm

### LTE Band 41- EIRP Part 27.50(h)(2)

Limits: ≤33dBm (2W)

#### LTE Band 41\_5MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>c</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
2537.5	-9.7	5.4	34.8	3.8	23.5	33.0	9.5	H
2593.0	-8.62	5.5	34.8	3.8	24.48	33.0	8.52	H
2652.5	-9.69	5.5	34.9	3.9	23.61	33.0	9.39	H

#### LTE Band 41\_10MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>c</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
2540.0	-9.58	5.4	34.8	3.8	23.62	33.0	9.38	H
2593.0	-8.54	5.5	34.8	3.8	24.56	33.0	8.44	H
2650.0	-9.73	5.5	34.9	3.9	23.57	33.0	9.43	H

#### LTE Band 41\_15MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>c</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
2542.5	-9.7	5.4	34.8	3.8	23.5	33.0	9.5	H
2593.0	-8.57	5.5	34.8	3.8	24.53	33.0	8.47	H
2647.5	-9.82	5.5	34.9	3.9	23.48	33.0	9.52	H

#### LTE Band 41\_20MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>c</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
2545.0	-9.98	5.4	34.8	3.8	23.22	33.0	9.78	H
2593.0	-8.57	5.5	34.8	3.8	24.53	33.0	8.47	H
2645.0	-9.74	5.5	34.9	3.9	23.56	33.0	9.44	H

### LTE Band 41\_5MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
2537.5	-9.63	5.4	34.8	3.8	23.57	33.0	9.43	H
2593.0	-8.8	5.5	34.8	3.8	24.3	33.0	8.7	H
2652.5	-9.7	5.5	34.9	3.9	23.6	33.0	9.4	H

### LTE Band 41\_10MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
2540.0	-9.59	5.4	34.8	3.8	23.61	33.0	9.39	H
2593.0	-8.58	5.5	34.8	3.8	24.52	33.0	8.48	H
2650.0	-9.66	5.5	34.9	3.9	23.64	33.0	9.36	H

### LTE Band 41\_15MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
2542.5	-9.53	5.4	34.8	3.8	23.67	33.0	9.33	H
2593.0	-8.56	5.5	34.8	3.8	24.54	33.0	8.46	H
2647.5	-9.82	5.5	34.9	3.9	23.48	33.0	9.52	H

### LTE Band 41\_20MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
2545.0	-9.82	5.4	34.8	3.8	23.38	33.0	9.62	H
2593.0	-8.64	5.5	34.8	3.8	24.46	33.0	8.54	H
2645.0	-10.04	5.5	34.9	3.9	23.26	33.0	9.74	H

$$\text{Peak EIRP(dBm)} = P_{\text{Mea}}(-9.82\text{dBm}) - G_a (3.8\text{dBi}) - P_{\text{Ag}} (34.8\text{dB}) - P_{\text{cl}} (5.4\text{dB}) = 23.38\text{dBm}$$



### LTE Band 66 - ERP 27.50(c)(10)

Limits: ≤34.77dBm (3W)

#### LTE Band 66\_1.4MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1710.7	-13.36	4.4	36.3	3	21.54	34.77	13.23	H
1745	-12.45	4.5	35.8	2.9	21.75	34.77	13.02	H
1779.3	-12.18	4.5	36.5	2.9	22.72	34.77	12.05	H

#### LTE Band 66\_3MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1711.5	-13.18	4.4	36.3	3	21.72	34.77	13.05	V
1745	-13.46	4.5	35.8	2.9	20.74	34.77	14.03	V
1778.5	-11.47	4.5	36.3	2.9	23.23	34.77	11.54	V

#### LTE Band 66\_5MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1712.5	-15.83	4.4	36.3	3	19.07	34.77	15.7	V
1745	-13.66	4.5	35.8	2.9	20.54	34.77	14.23	V
1777.5	-14.2	4.5	36.1	2.9	20.30	34.77	14.47	V

#### LTE Band 66\_10MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1715	-16.31	4.4	36.3	3	18.59	34.77	16.18	V
1745	-13.22	4.5	35.8	2.9	20.98	34.77	13.79	V
1775	-14.62	4.5	36.1	2.9	19.88	34.77	14.89	V

#### LTE Band 66\_15MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1717.5	-16.4	4.4	36.3	3	18.50	34.77	16.27	V
1745	-13.47	4.5	35.8	2.9	20.73	34.77	14.04	V
1772.5	-14.8	4.5	36.2	2.9	19.80	34.77	14.97	V

#### LTE Band 66\_20MHz\_QPSK

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1720	-16.43	4.4	36.3	3	18.47	34.77	16.3	V
1745	-15.04	4.5	35.8	2.9	19.16	34.77	15.61	V

1770	-14.59	4.5	36.4	2.9	20.21	34.77	14.56	V
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### LTE Band 66\_1.4MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1710.7	-13.61	4.4	36.3	3	21.29	34.77	13.48	V
1745	-11.89	4.5	35.8	2.9	22.31	34.77	12.46	V
1779.3	-11.29	4.5	36.5	2.9	23.61	34.77	11.16	V

### LTE Band 66\_3MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1711.5	-13.69	4.4	36.3	3	21.21	34.77	13.56	V
1745	-12.49	4.5	35.8	2.9	21.71	34.77	13.06	V
1778.5	-11.62	4.5	36.3	2.9	23.08	34.77	11.69	V

### LTE Band 66\_5MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1712.5	-14.48	4.4	36.3	3	20.42	34.77	14.35	V
1745	-14	4.5	35.8	2.9	20.20	34.77	14.57	V
1777.5	-13.94	4.5	36.3	2.9	20.76	34.77	14.01	V

### LTE Band 66\_10MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1715	-15.26	4.4	36.3	3	19.64	34.77	15.13	V
1745	-13.6	4.5	35.8	2.9	20.60	34.77	14.17	V
1775	-14.98	4.5	36.4	2.9	19.82	34.77	14.95	V

### LTE Band 66\_15MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1717.5	-16.99	4.4	36.3	3	17.91	34.77	16.86	V
1745	-12.61	4.5	35.8	2.9	21.59	34.77	13.18	V
1772.5	-14.52	4.5	36.2	2.9	20.08	34.77	14.69	V

### LTE Band 66\_20MHz\_16QAM

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1720	-14.77	4.4	36.3	3	20.13	34.77	14.64	V
1745	-14.67	4.5	35.8	2.9	19.53	34.77	15.24	V

1770	-15.19	4.5	36.4	2.9	19.61	34.77	15.16	V
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Peak ERP(dBm)= $P_{Mea}(-15.19\text{dBm})-G_a(2.9\text{dBi})-P_{Ag}(36.4\text{dB})-P_{cl}(4.5\text{dB})-2.15\text{dB}=19.61\text{dBm}$