



# TEST REPORT

**APPLICANT** : Nubia Technology Co.,Ltd.

**PRODUCT NAME** : 5G Digital Mobile Phone

**MODEL NAME** : NX659J

**BRAND NAME** : REDMAGIC

**FCC ID** : 2AHJO-NX659J

**STANDARD(S)** : 47 CFR Part 22, Subpart H  
47 CFR Part 24, Subpart E  
47 CFR Part 27, Subpart D&H&L&M

**RECEIPT DATE** : 2020-01-15

**TEST DATE** : 2020-02-22 to 2020-03-31

**ISSUE DATE** : 2020-04-03

Edited by: He Dekuan  
He Dekuan (Rapporteur)

Approved by: Peng Huarui  
Peng Huarui ( Supervisor )

**NOTE:** This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.





# DIRECTORY

<b>1. Technical Information</b> .....	<b>4</b>
<b>1.1. Applicant and Manufacturer Information</b> .....	<b>4</b>
<b>1.2. Equipment Under Test (EUT) Description</b> .....	<b>4</b>
<b>1.3. Maximum ERP/EIRP and Emission Designator</b> .....	<b>6</b>
<b>1.4. Test Standards and Results</b> .....	<b>10</b>
<b>1.5. Environmental Conditions</b> .....	<b>12</b>
<b>2. 47 CFR Part 2, Part 22H, Part 24E and 27D&amp;H&amp;L&amp;M Requirements</b> .....	<b>13</b>
<b>2.1. Transmitter Conducted Output Power And ERP/EIRP</b> .....	<b>13</b>
<b>2.2. Occupied Bandwidth</b> .....	<b>151</b>
<b>2.3. Frequency Stability</b> .....	<b>217</b>
<b>2.4. Peak to Average Ratio</b> .....	<b>223</b>
<b>2.5. Conducted Spurious Emissions</b> .....	<b>254</b>
<b>2.6. Band Edge</b> .....	<b>319</b>
<b>2.7. Radiated Spurious Emissions</b> .....	<b>350</b>
<b>Annex A Test Uncertainty</b> .....	<b>397</b>
<b>Annex B Testing Laboratory Information</b> .....	<b>398</b>



REPORT No. : SZ20010191W03

<b>Change History</b>		
<b>Version</b>	<b>Date</b>	<b>Reason for change</b>
1.0	2020-04-03	First edition



# 1. Technical Information

Note: Provide by applicant.

## 1.1. Applicant and Manufacturer Information

<b>Applicant:</b>	Nubia Technology Co.,Ltd.
<b>Applicant Address:</b>	16/F,Building 2,chongwen Park,Nanshan zhiyuan,3370 Liuxian Road,Nanshan
<b>Manufacturer:</b>	Nubia Technology Co.,Ltd.
<b>ManufacturerAddress:</b>	16/F,Building 2,chongwen Park,Nanshan zhiyuan,3370 Liuxian Road,Nanshan

## 1.2. Equipment Under Test (EUT) Description

<b>Product Name:</b>	5G Digital Mobile Phone	
<b>Hardware Version:</b>	NX659J_V1AMB	
<b>Software Version:</b>	NX659J_ENCommon_V1.22	
<b>Modulation Type:</b>	QPSK, 16QAM,64QAM	
<b>Operation Band:</b>	Band 2 / 4 / 5 / 7 / 12 / 17 / 19 / 26	
<b>Frequency Range:</b>	LTE Band 2	Tx: 1850MHz -1910MHz
		Rx: 1930MHz -1990MHz
	LTE Band 4	Tx: 1710MHz -1755MHz
		Rx: 2110MHz - 2155MHz
	LTE Band 5	Tx: 824MHz -849MHz
		Rx: 869MHz – 894MHz
	LTE Band 7	Tx:2500MHz – 2670MHz
		Rx:2620MHz – 2690MHz
	LTE Band 12	Tx: 699MHz - 716MHz
		Tx: 729MHz - 746MHz
	LTE Band 17	Tx: 704MHz - 716MHz
		Tx: 734MHz - 746MHz
	LTE Band 19	Tx: 830MHz - 845MHz
		Tx: 875MHz - 890MHz
LTE Band 26	Tx: 824MHz - 849MHz	
	Tx: 869MHz - 894MHz	



<b>Channel Bandwidth</b>	LTE Band 2	1.4MHz, 3 MHz, 5 MHz, 10MHz, 15 MHz, 20 MHz		
	LTE Band 4	1.4MHz, 3 MHz, 5 MHz, 10MHz, 15 MHz, 20 MHz		
	LTE Band 5	1.4MHz, 3 MHz, 5 MHz, 10MHz		
	LTE Band 7	5MHz,10MHz,15MHz,20MHz		
	LTE Band 12	1.4MHz, 3 MHz, 5 MHz, 10MHz		
	LTE Band 17	5 MHz, 10MHz		
	LTE Band 19	5 MHz, 10MHz, 15 MHz		
	LTE Band 26	1.4MHz, 3 MHz, 5 MHz, 10MHz, 15 MHz		
<b>Antenna Type:</b>	Fixed Internal			
<b>Antenna Gain:</b>	Top Antenna		Bottom Antenna	
	LTE Band 2	1.40 dBi	LTE Band 2	1.40 dBi
	LTE Band 4	1.37 dBi	LTE Band 4	1.37 dBi
	LTE Band 5	1.56 dBi	LTE Band 5	1.56 dBi
	LTE Band 7	1.70 dBi	LTE Band 7	1.70 dBi
	LTE Band 12	1.47 dBi	LTE Band 12	1.47 dBi
	LTE Band 17	1.45 dBi	LTE Band 17	1.45 dBi
	LTE Band 19	1.56 dBi	LTE Band 19	1.56 dBi
	LTE Band 26	1.44 dBi	LTE Band 26	1.44 dBi
<b>Accessory Information:</b>	Battery			
	Brand Name:	ATL		
	Model No.:	Li3945T44P8h526391		
	Capacity:	4400mAh		
	Rated Voltage:	3.87V		
	Charge Limit:	4.45V		
	AC Adapter 1			
	Brand Name:	N/A		
	Model No.:	CYNBY090200-A00		
	Rated Input:	100-240V~50/60Hz 0.5A		
	Rated Output:	12.0V=1.5A or 9.0V=2.0A or 5.0V=3.0A		

**Note 1:** For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



### 1.3. Maximum ERP/EIRP and Emission Designator

Maximum ERP/EIRP

	Top Antenna				Bottom Antenna		
<b>LTE Band2</b>	<b>Maximum ERP/EIRP (W)</b>				<b>Maximum ERP/EIRP (W)</b>		
BW(MHz)	QPSK	16QAM	64QAM		QPSK	16QAM	64QAM
20	0.103	0.084	0.087		0.320	0.282	0.278
15	0.100	0.085	0.087		0.320	0.275	0.288
10	0.097	0.086	0.085		0.319	0.280	0.273
5	0.096	0.085	0.083		0.313	0.272	0.273
3	0.099	0.085	0.078		0.307	0.268	0.259
1.4	0.095	0.085	0.083		0.305	0.274	0.269
<b>LTE Band4</b>	<b>Maximum ERP/EIRP (W)</b>				<b>Maximum ERP/EIRP (W)</b>		
BW(MHz)	QPSK	16QAM	64QAM		QPSK	16QAM	64QAM
20	0.064	0.050	0.040		0.321	0.264	0.272
15	0.062	0.052	0.041		0.321	0.267	0.262
10	0.062	0.050	0.042		0.321	0.267	0.262
5	0.063	0.052	0.041		0.320	0.267	0.262
3	0.063	0.053	0.041		0.319	0.266	0.261
1.4	0.063	0.053	0.041		0.320	0.263	0.270
<b>LTE Band5</b>	<b>Maximum ERP/EIRP (W)</b>				<b>Maximum ERP/EIRP (W)</b>		
BW(MHz)	QPSK	16QAM	64QAM		QPSK	16QAM	64QAM
10	0.083	0.067	0.054		0.217	0.194	0.193
5	0.082	0.069	0.054		0.187	0.153	0.155
3	0.083	0.067	0.053		0.185	0.169	0.164
1.4	0.081	0.067	0.053		0.182	0.161	0.152
<b>LTE Band7</b>	<b>Maximum ERP/EIRP (W)</b>				<b>Maximum ERP/EIRP (W)</b>		
BW(MHz)	QPSK	16QAM	64QAM		QPSK	16QAM	64QAM
20	0.090	0.074	0.058		0.330	0.285	0.284
15	0.089	0.072	0.059		0.327	0.295	0.286
10	0.085	0.074	0.056		0.309	0.273	0.270
5	0.085	0.072	0.056		0.311	0.273	0.267



LTE Band12		Maximum ERP/EIRP (W)			Maximum ERP/EIRP (W)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
10	0.082	0.068	0.052	0.189	0.165	0.169	
5	0.080	0.067	0.052	0.182	0.160	0.158	
3	0.080	0.067	0.054	0.184	0.162	0.155	
1.4	0.079	0.066	0.052	0.186	0.156	0.156	
LTE Band17		Maximum ERP/EIRP (W)			Maximum ERP/EIRP (W)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
10	0.080	0.067	0.052	0.179	0.156	0.171	
5	0.080	0.065	0.051	0.178	0.152	0.157	
LTE Band19		Maximum ERP/EIRP (W)			Maximum ERP/EIRP (W)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
15	0.102	0.081	0.052	0.187	0.151	0.149	
10	0.101	0.087	0.067	0.187	0.150	0.149	
5	0.101	0.087	0.065	0.186	0.149	0.148	
LTE Band26		Maximum ERP/EIRP (W)			Maximum ERP/EIRP (W)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
15	0.102	0.084	0.066	0.190	0.163	0.162	
10	0.096	0.084	0.064	0.185	0.162	0.161	
5	0.095	0.084	0.064	0.189	0.165	0.164	
3	0.094	0.081	0.065	0.186	0.162	0.161	
1.4	0.095	0.079	0.064	0.187	0.161	0.160	



Emission Designator

<b>LTE Band2</b>	<b>Emission Designator (99%OBW)</b>		
BW(MHz)	QPSK	16QAM	64QAM
20	17M9G7D	18M0W7D	18M0D7W
15	13M5G7D	13M5W7D	13M5D7W
10	9M00G7D	8M97W7D	8M97D7W
5	4M50G7D	4M50W7D	4M50D7W
3	2M7G7D	2M7W7D	2M71D7W
1.4	1M10G7D	1M10W7D	1M09D7W
<b>LTE Band4</b>	<b>Emission Designator (99%OBW)</b>		
BW(MHz)	QPSK	16QAM	64QAM
20	18M0G7D	17M9W7D	18M0D7W
15	13M5G7D	13M5W7D	13M5D7W
10	9M00G7D	8M96W7D	8M97D7W
5	4M50G7D	4M51W7D	4M50D7W
3	2M70G7D	2M71W7D	2M71D7W
1.4	1M09G7D	1M10W7D	1M10D7W
<b>LTE Band5</b>	<b>Emission Designator (99%OBW)</b>		
BW(MHz)	QPSK	16QAM	64QAM
10	8M99G7D	8M96W7D	8M98D7W
5	4M50G7D	4M51W7D	4M50D7W
3	2M70G7D	2M70W7D	2M71D7W
1.4	1M10G7D	1M10W7D	1M10D7W
<b>LTE Band7</b>	<b>Emission Designator (99%OBW)</b>		
BW(MHz)	QPSK	16QAM	64QAM
20	17M9G7D	18M0W7D	18M0D7W
15	13M5G7D	13M5W7D	13M5D7W
10	8M99G7D	8M96W7D	8M97D7W
5	4M50G7D	4M50W7D	4M50D7W
<b>LTE Band12</b>	<b>Emission Designator (99%OBW)</b>		
BW(MHz)	QPSK	16QAM	64QAM
10	8M99G7D	8M96W7D	8M99D7W
5	4M51G7D	4M50W7D	4M50D7W
3	2M70G7D	2M70W7D	2M71D7W
1.4	1M09G7D	1M10W7D	1M10D7W





<b>LTE Band17</b>	<b>Emission Designator (99%OBW)</b>		
BW(MHz)	QPSK	16QAM	64QAM
10	8M99G7D	8M94W7D	8M97D7W
5	4M51G7D	4M50W7D	4M50D7W
<b>LTE Band19</b>	<b>Emission Designator (99%OBW)</b>		
BW(MHz)	QPSK	16QAM	64QAM
15	13M5G7D	13M5W7D	13M5D7W
10	9M01G7D	8M98W7D	9M00D7W
5	4M50G7D	4M51W7D	4M50D7W
<b>LTE Band26</b>	<b>Emission Designator (99%OBW)</b>		
BW(MHz)	QPSK	16QAM	64QAM
15	13M5G7D	13M5W7D	13M5D7W
10	9M00G7D	8M95W7D	8M97D7W
5	4M50G7D	4M50W7D	4M49D7W
3	2M70G7D	2M70W7D	2M71D7W
1.4	1M23G7D	1M10W7D	1M09D7W



## 1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 24 and Part 27 for the EUT FCC ID Certification:

No	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22	Public Mobile Services
3	47 CFR Part 24	Personal Communications Services
4	47 CFR Part 27	Miscellaneous Wireless Communications Services



Test detailed items/section required by FCC rules and results are as below:

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046, 22.913(a)(2), 24.232(c),27.50(c)(10) 27.50(d)(4),27.50(h)(2 ) 27.50(a)(3)	Transmitter Conducted Output Power and ERP/EIRP	Mar 26 to 31, 2020	Gao Mingzhou Peng Xuewei	PASS	No deviation
2.1049	Occupied Bandwidth	Feb 22, to Mar 7, 2020	Gao Mingzhou	PASS	No deviation
2.1055, 22.355, 24.235, 27.54	Frequency Stability	Feb 22 to 28, 2020	Gao Mingzhou	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Feb 22, to Mar 7, 2020	Gao Mingzhou	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53(g)(h) 27.53(m)(4)(a)(4)	Conducted Spurious Emissions	Feb 22, to Mar 14, 2020	Gao Mingzhou	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53(g)(h) 27.53(m)(4)(a)(4)	Band Edge	Feb 22, to Mar 14, 2020	Gao Mingzhou	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53(g)(h) 27.53(m)(4)(a)(4)	Radiated Spurious Emissions	Feb 22, to Mar 31, 2020	Peng Xuewei	PASS	No deviation

**Note 1:** The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016.

**Note 2:** The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 26.5dB contains two parts that cable loss 16.5dB and Attenuator 10dB.



## 1.5. Environmental Conditions

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

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106

## 2.47 CFR Part 2, Part 22H, Part 24E and 27D&H&L&M Requirements

### 2.1. Transmitter Conducted Output Power And ERP/EIRP

#### 2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

According to FCC section 24.232 (c) for LTE Band 2/25, Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

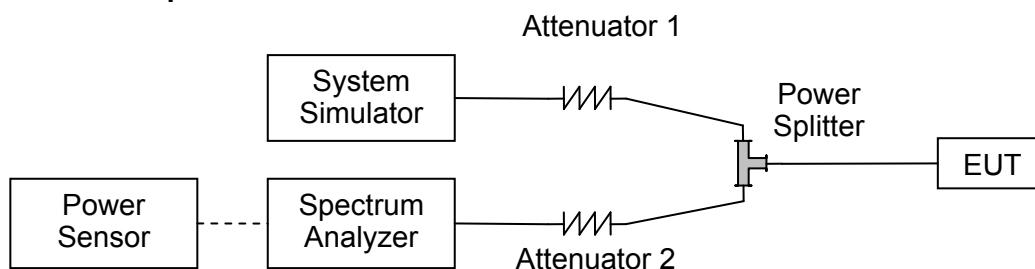
According to FCC section 27.50 (d) for LTE Band 4, fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat EIRP.

According to FCC section 22.913 (a.2) for LTE Band 5/26, the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 27.50 (h) for LTE Band 7/41, 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.

According to FCC section 27.50 (c) for LTE Band 12/17, Portable stations (hand-held devices) operating in the 704-716MHz band are limited to 3watts ERP.

#### 2.1.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.



### 2.1.3. Test procedure

KDB 971168 D01v03 Section 5.2 and ANSI/TIA-603-E-2016.

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

$ERP \text{ (dBm)} = EIPR \text{ (dBm)} - 2.15$

### 2.1.4. Result



**Conducted Output Power:**

**Top Antenna:**

LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	18.67	18.72	18.68
20	QPSK	1	49	18.45	18.56	18.39
20	QPSK	1	99	18.44	18.46	18.45
20	QPSK	50	0	17.51	17.66	17.43
20	QPSK	50	24	17.67	17.65	17.59
20	QPSK	50	50	17.68	17.69	17.61
20	QPSK	100	0	17.55	17.55	17.53
20	16QAM	1	0	17.65	17.65	17.82
20	16QAM	1	49	17.71	17.65	17.71
20	16QAM	1	99	17.35	17.73	17.65
20	16QAM	50	0	17.57	17.53	17.61
20	16QAM	50	24	17.79	17.64	17.53
20	16QAM	50	50	17.64	17.63	17.62
20	16QAM	100	0	17.67	17.62	17.55
20	64QAM	1	0	17.71	17.54	17.61
20	64QAM	1	49	17.62	17.62	17.25
20	64QAM	1	99	17.65	17.47	17.98
20	64QAM	50	0	16.6	16.56	16.57
20	64QAM	50	24	16.54	16.63	16.61
20	64QAM	50	50	16.56	16.63	16.53
20	64QAM	100	0	16.72	16.63	16.54



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	18.53	18.49	18.52
15	QPSK	1	37	18.42	18.55	18.38
15	QPSK	1	74	18.51	18.52	18.61
15	QPSK	36	0	17.47	17.62	17.51
15	QPSK	36	20	17.58	17.58	17.65
15	QPSK	36	39	17.66	17.65	17.58
15	QPSK	75	0	17.68	17.59	17.53
15	16QAM	1	0	17.9	17.72	17.62
15	16QAM	1	37	17.51	17.62	17.89
15	16QAM	1	74	17.22	17.86	17.76
15	16QAM	36	0	17.46	17.62	17.44
15	16QAM	36	20	17.67	17.65	17.59
15	16QAM	36	39	17.72	17.62	17.67
15	16QAM	75	0	17.69	17.48	17.55
15	64QAM	1	0	17.63	17.22	17.78
15	64QAM	1	37	17.98	17.44	17.85
15	64QAM	1	74	17.43	17.65	17.62
15	64QAM	36	0	16.66	16.56	16.55
15	64QAM	36	20	16.65	16.68	16.64
15	64QAM	36	39	16.54	16.56	16.52
15	64QAM	75	0	16.55	16.62	16.51





LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	18.19	18.35	18.24
10	QPSK	1	25	18.21	18.31	18.43
10	QPSK	1	49	18.45	18.28	18.3
10	QPSK	25	0	17.42	17.34	17.17
10	QPSK	25	12	17.35	17.43	17.22
10	QPSK	25	25	17.45	17.49	17.25
10	QPSK	50	0	17.45	17.29	17.27
10	16QAM	1	0	17.42	17.45	17.57
10	16QAM	1	25	17.55	17.88	17.64
10	16QAM	1	49	17.95	17.94	17.83
10	16QAM	25	0	17.51	17.26	17.31
10	16QAM	25	12	17.41	17.35	17.29
10	16QAM	25	25	17.26	17.62	17.47
10	16QAM	50	0	17.52	17.37	17.56
10	64QAM	1	0	17.86	17.79	17.48
10	64QAM	1	25	17.89	17.56	17.61
10	64QAM	1	49	17.56	17.65	17.83
10	64QAM	25	0	16.28	16.31	16.27
10	64QAM	25	12	16.56	16.41	16.23
10	64QAM	25	25	16.48	16.42	16.47
10	64QAM	50	0	16.45	16.58	16.22



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	18.33	18.27	18.24
5	QPSK	1	12	18.41	18.41	18.34
5	QPSK	1	24	18.38	18.35	18.36
5	QPSK	12	0	17.42	17.36	17.24
5	QPSK	12	7	17.51	17.48	17.35
5	QPSK	12	13	17.45	17.51	17.36
5	QPSK	25	0	17.42	17.38	17.39
5	16QAM	1	0	17.61	17.61	17.81
5	16QAM	1	12	17.52	17.61	17.35
5	16QAM	1	24	17.89	17.62	17.44
5	16QAM	12	0	17.44	17.65	17.35
5	16QAM	12	7	17.55	17.52	17.56
5	16QAM	12	13	17.64	17.37	17.41
5	16QAM	25	0	17.46	17.37	17.55
5	64QAM	1	0	17.31	17.47	17.73
5	64QAM	1	12	17.58	17.44	17.73
5	64QAM	1	24	17.61	17.57	17.8
5	64QAM	12	0	16.43	16.33	16.18
5	64QAM	12	7	16.48	16.41	16.32
5	64QAM	12	13	16.42	16.41	16.35
5	64QAM	25	0	16.45	16.37	16.35



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	18.24	18.31	18.12
3	QPSK	1	8	18.44	18.54	18.21
3	QPSK	1	14	18.36	18.35	18.24
3	QPSK	8	0	17.43	17.27	17.24
3	QPSK	8	4	17.49	17.47	17.34
3	QPSK	8	7	17.45	17.42	17.31
3	QPSK	15	0	17.38	17.35	17.28
3	16QAM	1	0	17.87	17.57	17.53
3	16QAM	1	8	17.81	17.51	17.61
3	16QAM	1	14	17.85	17.56	17.41
3	16QAM	8	0	17.37	17.65	17.55
3	16QAM	8	4	17.52	17.65	17.32
3	16QAM	8	7	17.55	17.54	17.47
3	16QAM	15	0	17.49	17.42	17.54
3	64QAM	1	0	17.52	17.45	17.18
3	64QAM	1	8	17.32	17.53	17.49
3	64QAM	1	14	17.35	17.47	17.49
3	64QAM	8	0	16.28	16.53	16.24
3	64QAM	8	4	16.52	16.37	16.43
3	64QAM	8	7	16.36	16.32	16.32
3	64QAM	15	0	16.37	16.33	16.42



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	18.25	18.21	18.09
1.4	QPSK	1	3	18.35	18.34	18.25
1.4	QPSK	1	5	18.36	18.26	18.14
1.4	QPSK	3	0	18.22	18.26	18.22
1.4	QPSK	3	1	18.25	18.33	18.21
1.4	QPSK	3	3	18.31	18.22	18.09
1.4	QPSK	6	0	17.33	17.31	17.22
1.4	16QAM	1	0	17.56	17.69	17.56
1.4	16QAM	1	3	17.89	17.55	17.16
1.4	16QAM	1	5	17.64	17.56	17.34
1.4	16QAM	3	0	17.42	17.22	17.26
1.4	16QAM	3	1	17.43	17.42	17.19
1.4	16QAM	3	3	17.44	17.41	17.27
1.4	16QAM	6	0	17.66	17.52	17.65
1.4	64QAM	1	0	17.52	17.48	17.65
1.4	64QAM	1	3	17.54	17.49	17.24
1.4	64QAM	1	5	17.43	17.79	17.42
1.4	64QAM	3	0	17.49	17.51	17.36
1.4	64QAM	3	1	17.49	17.24	17.34
1.4	64QAM	3	3	17.48	17.55	17.27
1.4	64QAM	6	0	16.64	16.58	16.53



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	16.66	16.62	16.51
20	QPSK	1	49	16.38	16.32	16.36
20	QPSK	1	99	16.42	16.36	16.35
20	QPSK	50	0	15.61	15.57	15.51
20	QPSK	50	24	15.55	15.54	15.58
20	QPSK	50	50	15.54	15.58	15.49
20	QPSK	100	0	15.66	15.55	15.61
20	16QAM	1	0	15.61	15.55	15.55
20	16QAM	1	49	15.57	15.62	15.52
20	16QAM	1	99	14.82	14.82	14.066
20	16QAM	50	0	14.66	14.51	14.52
20	16QAM	50	24	14.61	14.49	14.61
20	16QAM	50	50	14.57	14.42	14.45
20	16QAM	100	0	14.32	14.51	14.62
20	64QAM	1	0	14.23	14.09	14.28
20	64QAM	1	49	14.35	14.32	14.27
20	64QAM	1	99	14.12	14.62	14.32
20	64QAM	50	0	13.94	13.78	13.78
20	64QAM	50	24	13.87	13.79	13.73
20	64QAM	50	50	13.88	13.62	13.62
20	64QAM	100	0	13.96	13.78	13.72



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	16.53	16.48	16.52
15	QPSK	1	37	16.31	16.31	16.38
15	QPSK	1	74	16.31	16.37	16.41
15	QPSK	36	0	15.51	15.39	15.49
15	QPSK	36	20	15.59	15.47	15.58
15	QPSK	36	39	15.59	15.46	15.51
15	QPSK	75	0	15.59	15.47	15.54
15	16QAM	1	0	15.62	15.62	15.71
15	16QAM	1	37	15.58	15.22	15.41
15	16QAM	1	74	15.51	15.76	15.62
15	16QAM	36	0	14.67	14.45	14.52
15	16QAM	36	20	14.61	14.51	14.53
15	16QAM	36	39	14.51	14.43	14.57
15	16QAM	75	0	14.51	14.44	14.45
15	64QAM	1	0	14.77	14.76	14.75
15	64QAM	1	37	14.63	14.55	14.34
15	64QAM	1	74	14.58	14.53	14.51
15	64QAM	36	0	13.62	13.65	13.77
15	64QAM	36	20	13.72	13.79	13.62
15	64QAM	36	39	13.68	13.62	13.52
15	64QAM	75	0	13.65	13.66	13.55



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	16.57	16.51	16.51
10	QPSK	1	25	16.39	16.51	16.37
10	QPSK	1	49	16.42	16.31	16.31
10	QPSK	25	0	15.57	15.41	15.51
10	QPSK	25	12	15.58	15.48	15.57
10	QPSK	25	25	15.46	15.57	15.48
10	QPSK	50	0	15.55	15.43	15.54
10	16QAM	1	0	15.54	15.64	15.66
10	16QAM	1	25	15.61	15.54	15.41
10	16QAM	1	49	15.53	15.62	15.55
10	16QAM	25	0	14.59	14.41	14.48
10	16QAM	25	12	14.61	14.56	14.51
10	16QAM	25	25	14.55	14.51	14.61
10	16QAM	50	0	14.52	14.43	14.54
10	64QAM	1	0	14.65	14.83	14.56
10	64QAM	1	25	14.56	14.62	14.54
10	64QAM	1	49	14.52	14.39	14.54
10	64QAM	25	0	13.52	13.42	13.58
10	64QAM	25	12	13.66	13.75	13.64
10	64QAM	25	25	13.56	13.55	13.62
10	64QAM	50	0	13.54	13.72	13.55



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	16.61	16.57	16.59
5	QPSK	1	12	16.38	16.31	16.35
5	QPSK	1	24	16.45	16.37	16.36
5	QPSK	12	0	15.51	15.47	15.47
5	QPSK	12	7	15.59	15.56	15.57
5	QPSK	12	13	15.59	15.54	15.58
5	QPSK	25	0	15.48	15.44	15.52
5	16QAM	1	0	15.56	15.83	15.22
5	16QAM	1	12	15.62	15.63	15.49
5	16QAM	1	24	15.56	15.51	15.68
5	16QAM	12	0	14.49	14.58	14.51
5	16QAM	12	7	14.49	14.55	14.54
5	16QAM	12	13	14.54	14.52	14.56
5	16QAM	25	0	14.57	14.47	14.54
5	64QAM	1	0	14.59	14.62	14.62
5	64QAM	1	12	14.73	14.72	14.51
5	64QAM	1	24	14.54	14.52	14.61
5	64QAM	12	0	13.62	13.53	13.52
5	64QAM	12	7	13.54	13.51	13.56
5	64QAM	12	13	13.65	13.59	13.55
5	64QAM	25	0	13.61	13.32	13.55





LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	16.59	16.57	16.48
3	QPSK	1	8	16.39	16.33	16.49
3	QPSK	1	14	16.45	16.34	16.37
3	QPSK	8	0	15.57	15.45	15.59
3	QPSK	8	4	15.55	15.54	15.58
3	QPSK	8	7	15.56	15.41	15.59
3	QPSK	15	0	15.48	15.42	15.5
3	16QAM	1	0	15.62	15.49	15.88
3	16QAM	1	8	15.82	15.55	15.57
3	16QAM	1	14	15.62	15.62	15.46
3	16QAM	8	0	14.56	14.38	14.55
3	16QAM	8	4	14.58	14.46	14.58
3	16QAM	8	7	14.64	14.56	14.49
3	16QAM	15	0	14.56	14.57	14.58
3	64QAM	1	0	14.49	14.79	14.69
3	64QAM	1	8	14.46	14.73	14.34
3	64QAM	1	14	14.58	14.42	14.51
3	64QAM	8	0	13.53	13.55	13.52
3	64QAM	8	4	13.61	13.49	13.62
3	64QAM	8	7	13.57	13.42	13.45
3	64QAM	15	0	13.62	13.51	13.62



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	16.62	16.62	16.51
1.4	QPSK	1	3	16.38	16.32	16.36
1.4	QPSK	1	5	16.42	16.36	16.35
1.4	QPSK	3	0	16.61	16.57	16.51
1.4	QPSK	3	1	16.55	16.54	16.58
1.4	QPSK	3	3	16.54	16.58	16.49
1.4	QPSK	6	0	15.54	16.42	15.54
1.4	16QAM	1	0	15.77	15.81	15.78
1.4	16QAM	1	3	15.82	15.89	15.83
1.4	16QAM	1	5	15.62	15.36	15.63
1.4	16QAM	3	0	15.56	15.56	15.58
1.4	16QAM	3	1	15.58	15.49	15.56
1.4	16QAM	3	3	15.64	15.57	15.62
1.4	16QAM	6	0	14.54	14.52	14.54
1.4	64QAM	1	0	14.72	14.22	14.62
1.4	64QAM	1	3	14.72	14.53	14.42
1.4	64QAM	1	5	14.63	14.59	14.59
1.4	64QAM	3	0	14.61	14.54	14.54
1.4	64QAM	3	1	14.61	14.53	14.57
1.4	64QAM	3	3	14.53	14.61	14.46
1.4	64QAM	6	0	13.32	13.49	13.37



LTE Band5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	19.75	19.72	19.78
10	QPSK	1	25	19.61	19.48	19.55
10	QPSK	1	49	19.72	19.58	19.63
10	QPSK	25	0	18.71	18.76	18.84
10	QPSK	25	12	18.82	18.63	18.73
10	QPSK	25	25	18.79	18.72	18.81
10	QPSK	50	0	18.77	18.84	18.69
10	16QAM	1	0	18.32	18.67	18.88
10	16QAM	1	25	18.66	18.75	18.62
10	16QAM	1	49	18.81	18.52	18.55
10	16QAM	25	0	17.74	17.81	17.83
10	16QAM	25	12	17.82	17.68	17.83
10	16QAM	25	25	17.79	17.77	17.79
10	16QAM	50	0	17.69	17.88	17.83
10	64QAM	1	0	17.26	17.86	17.17
10	64QAM	1	25	17.55	17.56	17.62
10	64QAM	1	49	17.59	17.83	17.15
10	64QAM	25	0	17.75	17.76	17.75
10	64QAM	25	12	17.82	17.76	17.82
10	64QAM	25	25	17.88	17.74	17.84
10	64QAM	50	0	17.62	17.78	17.82



LTE Band5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	19.74	19.63	19.59
5	QPSK	1	12	19.63	19.71	19.69
5	QPSK	1	24	19.67	19.61	19.61
5	QPSK	12	0	18.77	18.69	18.77
5	QPSK	12	7	18.8	18.82	18.79
5	QPSK	12	13	18.76	18.74	18.79
5	QPSK	25	0	18.81	18.75	18.77
5	16QAM	1	0	18.96	18.92	18.64
5	16QAM	1	12	18.65	18.86	18.66
5	16QAM	1	24	18.62	18.79	18.56
5	16QAM	12	0	17.83	17.74	17.84
5	16QAM	12	7	17.75	17.79	17.85
5	16QAM	12	13	17.82	17.69	17.7
5	16QAM	25	0	17.83	17.71	17.74
5	64QAM	1	0	17.64	17.64	17.66
5	64QAM	1	12	17.28	17.57	17.18
5	64QAM	1	24	17.13	17.17	17.62
5	64QAM	12	0	17.76	17.68	17.79
5	64QAM	12	7	17.89	17.74	17.81
5	64QAM	12	13	17.75	17.77	17.75
5	64QAM	25	0	17.66	17.77	17.63



LTE Band5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	19.61	19.59	19.76
3	QPSK	1	8	19.57	19.62	19.73
3	QPSK	1	14	19.61	19.56	19.69
3	QPSK	8	0	18.77	18.73	18.68
3	QPSK	8	4	18.78	18.71	18.8
3	QPSK	8	7	18.71	18.67	18.72
3	QPSK	15	0	18.74	18.74	18.75
3	16QAM	1	0	18.24	18.25	18.36
3	16QAM	1	8	18.65	18.24	18.33
3	16QAM	1	14	18.83	18.25	18.18
3	16QAM	8	0	17.94	17.84	17.74
3	16QAM	8	4	17.89	17.75	17.88
3	16QAM	8	7	17.74	17.84	17.76
3	16QAM	15	0	17.86	17.85	17.61
3	64QAM	1	0	17.56	17.44	17.78
3	64QAM	1	8	17.66	17.62	17.85
3	64QAM	1	14	17.43	17.62	17.76
3	64QAM	8	0	17.8	17.71	17.68
3	64QAM	8	4	17.72	17.79	17.77
3	64QAM	8	7	17.78	17.66	17.68
3	64QAM	15	0	17.72	17.75	17.68



LTE Band5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	19.66	19.54	19.61
1.4	QPSK	1	3	19.64	19.59	19.63
1.4	QPSK	1	5	19.55	19.49	19.51
1.4	QPSK	3	0	19.58	19.49	19.61
1.4	QPSK	3	1	19.61	19.54	19.63
1.4	QPSK	3	3	19.62	19.55	19.54
1.4	QPSK	6	0	18.67	18.62	18.67
1.4	16QAM	1	0	18.21	18.71	18.85
1.4	16QAM	1	3	18.22	18.18	18.42
1.4	16QAM	1	5	18.66	18.55	18.62
1.4	16QAM	3	0	18.74	18.59	18.73
1.4	16QAM	3	1	18.69	18.75	18.68
1.4	16QAM	3	3	18.55	18.66	18.61
1.4	16QAM	6	0	17.74	17.85	17.81
1.4	64QAM	1	0	17.81	17.74	17.62
1.4	64QAM	1	3	17.58	17.09	17.54
1.4	64QAM	1	5	17.51	17.75	17.62
1.4	64QAM	3	0	17.62	17.62	17.78
1.4	64QAM	3	1	17.81	17.69	17.74
1.4	64QAM	3	3	17.81	17.71	17.62
1.4	64QAM	6	0	17.74	17.69	17.66



LTE Band7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20850	21100	21350
Frequency (MHz)				2510	2535	2560
20	QPSK	1	0	17.77	17.82	17.79
20	QPSK	1	49	17.59	17.66	17.73
20	QPSK	1	99	17.75	17.85	17.78
20	QPSK	50	0	16.77	16.76	16.81
20	QPSK	50	24	16.88	16.91	16.89
20	QPSK	50	50	16.84	16.87	16.83
20	QPSK	100	0	16.93	16.87	16.83
20	16QAM	1	0	16.89	16.87	16.33
20	16QAM	1	49	16.89	16.56	16.97
20	16QAM	1	99	16.62	16.66	16.54
20	16QAM	50	0	15.79	15.84	15.77
20	16QAM	50	24	15.86	15.94	15.83
20	16QAM	50	50	15.88	15.84	15.96
20	16QAM	100	0	15.82	15.97	15.85
20	64QAM	1	0	15.66	15.79	15.88
20	64QAM	1	49	15.56	15.61	15.64
20	64QAM	1	99	15.72	15.78	15.64
20	64QAM	50	0	15.71	15.87	15.77
20	64QAM	50	24	15.86	15.56	15.79
20	64QAM	50	50	15.62	15.97	15.83
20	64QAM	100	0	15.78	15.87	15.88



LTE Band7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5
15	QPSK	1	0	17.66	17.68	17.72
15	QPSK	1	37	17.75	17.55	17.71
15	QPSK	1	74	17.79	17.76	17.74
15	QPSK	36	0	16.85	16.79	16.78
15	QPSK	36	20	16.88	16.87	16.83
15	QPSK	36	39	16.92	17.04	16.89
15	QPSK	75	0	16.81	16.91	16.83
15	16QAM	1	0	16.89	16.62	16.62
15	16QAM	1	37	16.39	16.62	16.55
15	16QAM	1	74	16.75	16.55	16.72
15	16QAM	36	0	15.88	15.78	15.81
15	16QAM	36	20	15.89	15.87	15.83
15	16QAM	36	39	15.89	15.88	15.94
15	16QAM	75	0	15.87	15.89	15.71
15	64QAM	1	0	15.62	15.25	15.66
15	64QAM	1	37	15.22	15.56	15.75
15	64QAM	1	74	15.91	15.85	15.82
15	64QAM	36	0	15.91	15.88	15.79
15	64QAM	36	20	15.83	15.98	15.81
15	64QAM	36	39	15.91	15.88	15.78
15	64QAM	75	0	15.77	15.62	15.73





LTE Band7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20800	21100	21400
Frequency (MHz)				2505	2535	2565
10	QPSK	1	0	17.52	17.41	17.43
10	QPSK	1	25	17.47	17.38	17.44
10	QPSK	1	49	17.46	17.43	17.61
10	QPSK	25	0	16.59	16.57	16.62
10	QPSK	25	12	16.57	16.76	16.66
10	QPSK	25	25	16.55	16.68	16.64
10	QPSK	50	0	16.55	16.66	16.59
10	16QAM	1	0	16.98	16.52	16.54
10	16QAM	1	25	16.75	16.22	16.64
10	16QAM	1	49	16.72	16.75	16.44
10	16QAM	25	0	15.67	15.59	15.67
10	16QAM	25	12	15.63	15.75	15.65
10	16QAM	25	25	15.28	15.92	15.73
10	16QAM	50	0	15.61	15.71	15.62
10	64QAM	1	0	15.64	15.34	15.68
10	64QAM	1	25	15.48	15.39	15.75
10	64QAM	1	49	15.65	15.82	15.61
10	64QAM	25	0	15.64	15.66	15.64
10	64QAM	25	12	15.69	15.77	15.66
10	64QAM	25	25	15.69	15.77	15.78
10	64QAM	50	0	15.62	15.68	15.55



LTE Band7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5
5	QPSK	1	0	17.51	17.42	17.5
5	QPSK	1	12	17.51	17.54	17.46
5	QPSK	1	24	17.46	17.57	17.42
5	QPSK	12	0	16.61	16.62	16.62
5	QPSK	12	7	16.65	16.65	16.64
5	QPSK	12	13	16.62	16.71	16.66
5	QPSK	25	0	16.59	16.72	16.73
5	16QAM	1	0	16.45	16.25	16.89
5	16QAM	1	12	16.63	16.54	16.55
5	16QAM	1	24	16.61	16.76	16.54
5	16QAM	12	0	15.59	15.62	15.71
5	16QAM	12	7	15.75	15.63	15.67
5	16QAM	12	13	15.67	15.77	15.73
5	16QAM	25	0	15.59	15.74	15.65
5	64QAM	1	0	15.63	15.59	15.54
5	64QAM	1	12	15.62	15.61	15.62
5	64QAM	1	24	15.62	15.76	15.71
5	64QAM	12	0	15.52	15.52	15.61
5	64QAM	12	7	15.53	15.75	15.61
5	64QAM	12	13	15.75	15.78	15.69
5	64QAM	25	0	15.79	15.65	15.69



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23060	23095	23130
Frequency (MHz)				704	707.5	711
10	QPSK	1	0	19.62	19.76	19.74
10	QPSK	1	25	19.67	19.65	19.71
10	QPSK	1	49	19.83	19.72	19.63
10	QPSK	25	0	18.72	18.77	18.76
10	QPSK	25	12	18.82	18.72	18.63
10	QPSK	25	25	18.83	18.75	18.81
10	QPSK	50	0	18.78	18.85	18.79
10	16QAM	1	0	18.98	18.81	18.92
10	16QAM	1	25	18.64	18.55	18.56
10	16QAM	1	49	18.84	18.92	18.62
10	16QAM	25	0	17.73	17.83	17.91
10	16QAM	25	12	17.75	17.76	17.81
10	16QAM	25	25	17.68	17.85	17.81
10	16QAM	50	0	17.88	17.69	17.78
10	64QAM	1	0	17.25	17.16	17.34
10	64QAM	1	25	17.22	17.27	17.39
10	64QAM	1	49	17.76	17.52	17.16
10	64QAM	25	0	17.74	17.77	17.77
10	64QAM	25	12	17.88	17.82	17.73
10	64QAM	25	25	17.62	17.85	17.77
10	64QAM	50	0	17.75	17.74	17.82



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	19.69	19.65	19.61
5	QPSK	1	12	19.67	19.71	19.66
5	QPSK	1	24	19.61	19.67	19.67
5	QPSK	12	0	18.84	18.76	18.73
5	QPSK	12	7	18.77	18.79	18.72
5	QPSK	12	13	18.75	18.73	18.76
5	QPSK	25	0	18.79	18.82	18.72
5	16QAM	1	0	18.55	18.62	18.65
5	16QAM	1	12	18.85	18.59	18.62
5	16QAM	1	24	18.62	18.95	18.66
5	16QAM	12	0	17.83	17.77	17.77
5	16QAM	12	7	17.79	17.86	17.78
5	16QAM	12	13	17.72	17.66	17.81
5	16QAM	25	0	17.81	17.69	17.76
5	64QAM	1	0	17.56	17.66	17.62
5	64QAM	1	12	17.62	17.26	17.59
5	64QAM	1	24	17.65	17.62	17.62
5	64QAM	12	0	17.65	17.79	17.84
5	64QAM	12	7	17.72	17.68	17.73
5	64QAM	12	13	17.73	17.71	17.78
5	64QAM	25	0	17.82	17.65	17.74



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5
3	QPSK	1	0	19.68	19.64	19.67
3	QPSK	1	8	19.67	19.64	19.69
3	QPSK	1	14	19.55	19.63	19.66
3	QPSK	8	0	18.74	18.72	18.71
3	QPSK	8	4	18.73	18.78	18.83
3	QPSK	8	7	18.69	18.71	18.75
3	QPSK	15	0	18.72	18.79	18.77
3	16QAM	1	0	18.72	18.66	18.84
3	16QAM	1	8	18.62	18.95	18.81
3	16QAM	1	14	18.61	18.65	18.96
3	16QAM	8	0	17.75	17.78	17.75
3	16QAM	8	4	17.82	17.85	17.59
3	16QAM	8	7	17.72	17.87	17.82
3	16QAM	15	0	17.85	17.71	17.71
3	64QAM	1	0	17.65	17.56	17.65
3	64QAM	1	8	17.66	17.69	17.71
3	64QAM	1	14	17.62	17.82	17.69
3	64QAM	8	0	17.72	17.97	17.71
3	64QAM	8	4	17.78	17.85	17.77
3	64QAM	8	7	17.85	17.67	17.67
3	64QAM	15	0	17.79	17.67	17.66



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3
1.4	QPSK	1	0	19.63	19.51	19.59
1.4	QPSK	1	3	19.66	19.52	19.61
1.4	QPSK	1	5	19.58	19.55	19.52
1.4	QPSK	3	0	19.58	19.48	19.62
1.4	QPSK	3	1	19.55	19.61	19.52
1.4	QPSK	3	3	19.58	19.53	19.53
1.4	QPSK	6	0	18.69	18.63	18.64
1.4	16QAM	1	0	18.65	18.85	18.66
1.4	16QAM	1	3	18.62	18.81	18.65
1.4	16QAM	1	5	18.62	18.77	18.76
1.4	16QAM	3	0	18.82	18.63	18.72
1.4	16QAM	3	1	18.74	18.74	18.65
1.4	16QAM	3	3	18.69	18.79	18.58
1.4	16QAM	6	0	17.81	17.75	17.71
1.4	64QAM	1	0	17.73	17.73	17.77
1.4	64QAM	1	3	17.36	17.73	17.82
1.4	64QAM	1	5	17.59	17.39	17.65
1.4	64QAM	3	0	17.57	17.45	17.62
1.4	64QAM	3	1	17.72	17.51	17.76
1.4	64QAM	3	3	17.72	17.82	17.72
1.4	64QAM	6	0	17.73	17.62	17.58



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23780	23790	23800
Frequency (MHz)				709	710	711
10	QPSK	1	0	19.62	19.52	19.65
10	QPSK	1	25	19.45	19.44	19.53
10	QPSK	1	49	19.56	19.72	19.35
10	QPSK	25	0	18.59	18.58	18.61
10	QPSK	25	12	18.72	18.72	18.68
10	QPSK	25	25	18.71	18.74	18.69
10	QPSK	50	0	18.77	18.94	18.75
10	16QAM	1	0	18.66	18.93	18.81
10	16QAM	1	25	18.78	18.83	18.71
10	16QAM	1	49	18.74	18.87	18.87
10	16QAM	25	0	17.64	17.68	17.66
10	16QAM	25	12	17.83	17.78	17.69
10	16QAM	25	25	17.86	17.84	17.63
10	16QAM	50	0	17.79	17.64	17.74
10	64QAM	1	0	17.21	17.62	17.73
10	64QAM	1	25	17.82	17.68	17.62
10	64QAM	1	49	17.26	17.24	17.68
10	64QAM	25	0	17.71	17.62	17.63
10	64QAM	25	12	17.79	17.68	17.74
10	64QAM	25	25	17.79	17.56	17.71
10	64QAM	50	0	17.77	17.64	17.69



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23035	23790	23155
Frequency (MHz)				706.5	710	713.5
5	QPSK	1	0	19.45	19.61	19.56
5	QPSK	1	12	19.57	19.66	19.71
5	QPSK	1	24	19.63	19.57	19.52
5	QPSK	12	0	18.45	18.61	18.62
5	QPSK	12	7	18.69	18.72	18.75
5	QPSK	12	13	18.72	18.71	18.68
5	QPSK	25	0	18.71	18.68	18.72
5	16QAM	1	0	18.73	18.52	18.78
5	16QAM	1	12	18.62	18.56	18.76
5	16QAM	1	24	18.56	18.76	18.84
5	16QAM	12	0	17.71	17.62	17.64
5	16QAM	12	7	17.73	17.62	17.76
5	16QAM	12	13	17.63	17.72	17.74
5	16QAM	25	0	17.62	17.62	17.59
5	64QAM	1	0	17.72	17.76	17.69
5	64QAM	1	12	17.76	17.62	17.56
5	64QAM	1	24	17.69	17.61	17.56
5	64QAM	12	0	17.59	17.63	17.63
5	64QAM	12	7	17.63	17.75	17.69
5	64QAM	12	13	17.71	17.72	17.58
5	64QAM	25	0	17.72	17.63	17.63





LTE Band 19						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				24075	24075	24075
Frequency (MHz)				837.5	837.5	837.5
15	QPSK	1	0	/	20.57	/
15	QPSK	1	37	/	20.69	/
15	QPSK	1	74	/	20.41	/
15	QPSK	36	0	/	19.75	/
15	QPSK	36	20	/	19.79	/
15	QPSK	36	39	/	19.75	/
15	QPSK	75	0	/	19.71	/
15	16QAM	1	0	/	19.56	/
15	16QAM	1	37	/	19.67	/
15	16QAM	1	74	/	19.54	/
15	16QAM	36	0	/	18.72	/
15	16QAM	36	20	/	18.58	/
15	16QAM	36	39	/	18.68	/
15	16QAM	75	0	/	18.65	/
15	64QAM	1	0	/	18.62	/
15	64QAM	1	25	/	18.51	/
15	64QAM	1	49	/	18.78	/
15	64QAM	25	0	/	18.62	/
15	64QAM	25	12	/	18.73	/
15	64QAM	25	25	/	18.64	/
15	64QAM	50	0	/	18.62	/



LTE Band 19						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				24050	24075	24100
Frequency (MHz)				835	837.5	840
10	QPSK	1	0	20.54	20.29	20.63
10	QPSK	1	25	20.26	20.55	20.36
10	QPSK	1	49	20.28	20.45	20.43
10	QPSK	25	0	19.61	19.54	19.55
10	QPSK	25	12	19.34	19.55	19.52
10	QPSK	25	25	19.59	19.55	19.56
10	QPSK	50	0	19.71	19.57	19.47
10	16QAM	1	0	19.81	19.64	19.65
10	16QAM	1	25	19.82	19.92	19.98
10	16QAM	1	49	19.65	19.54	19.76
10	16QAM	25	0	18.66	18.54	18.56
10	16QAM	25	12	18.68	18.58	18.54
10	16QAM	25	25	18.59	18.57	18.53
10	16QAM	50	0	18.49	18.72	18.49
10	64QAM	1	0	18.56	18.81	18.62
10	64QAM	1	25	18.84	18.72	18.56
10	64QAM	1	49	18.55	18.74	18.62
10	64QAM	25	0	18.62	18.56	18.56
10	64QAM	25	12	18.63	18.66	18.53
10	64QAM	25	25	18.67	18.52	18.66
10	64QAM	50	0	18.53	18.55	18.55



LTE Band 19						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				24025	24075	24125
Frequency (MHz)				832.5	837.5	842.5
5	QPSK	1	0	20.42	20.46	20.53
5	QPSK	1	12	20.61	20.58	20.39
5	QPSK	1	24	20.62	20.48	20.47
5	QPSK	12	0	19.56	19.57	19.49
5	QPSK	12	7	19.64	19.61	19.58
5	QPSK	12	13	19.57	19.59	19.46
5	QPSK	25	0	19.65	19.62	19.59
5	16QAM	1	0	19.89	19.72	19.77
5	16QAM	1	12	19.65	19.86	19.69
5	16QAM	1	24	19.62	19.98	19.61
5	16QAM	12	0	18.54	18.62	18.56
5	16QAM	12	7	18.58	18.66	18.63
5	16QAM	12	13	18.59	18.59	18.63
5	16QAM	25	0	18.63	18.67	18.54
5	64QAM	1	0	18.58	18.65	18.65
5	64QAM	1	12	18.62	18.68	18.62
5	64QAM	1	24	18.62	18.62	18.62
5	64QAM	12	0	18.54	18.51	18.47
5	64QAM	12	7	18.61	18.71	18.54
5	64QAM	12	13	18.59	18.54	18.55
5	64QAM	25	0	18.65	18.66	18.55



LTE Band26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26865	26915	26965
Frequency (MHz)				831.5	836.5	841.5
15	QPSK	1	0	20.79	20.72	20.75
15	QPSK	1	37	20.72	20.63	20.58
15	QPSK	1	74	20.66	20.58	20.52
15	QPSK	36	0	19.84	19.83	19.76
15	QPSK	36	20	19.80	19.73	19.73
15	QPSK	36	39	19.81	19.82	19.71
15	QPSK	75	0	19.77	19.75	19.79
15	16QAM	1	0	19.93	19.78	19.95
15	16QAM	1	37	19.56	19.57	19.95
15	16QAM	1	74	19.76	19.89	19.71
15	16QAM	36	0	18.80	18.81	18.80
15	16QAM	36	20	18.79	18.81	18.83
15	16QAM	36	39	18.79	18.74	18.70
15	16QAM	75	0	18.85	18.74	18.71
15	64QAM	1	0	18.70	18.84	18.79
15	64QAM	1	37	18.65	18.65	18.65
15	64QAM	1	74	18.66	18.62	18.62
15	64QAM	36	0	18.84	18.56	18.69
15	64QAM	36	20	18.79	18.71	18.74
15	64QAM	36	39	18.86	18.74	18.69
15	64QAM	75	0	18.89	18.85	18.71



LTE Band26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26840	26915	26990
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	20.37	20.32	20.46
10	QPSK	1	25	20.24	20.52	20.54
10	QPSK	1	49	20.48	20.51	20.19
10	QPSK	25	0	19.47	19.49	19.45
10	QPSK	25	12	19.58	19.56	19.63
10	QPSK	25	25	19.48	19.43	19.47
10	QPSK	50	0	19.54	19.55	19.46
10	16QAM	1	0	19.74	19.65	19.65
10	16QAM	1	25	19.89	19.71	19.68
10	16QAM	1	49	19.97	19.83	19.82
10	16QAM	25	0	18.55	18.53	18.52
10	16QAM	25	12	18.57	18.54	18.54
10	16QAM	25	25	18.48	18.53	18.59
10	16QAM	50	0	18.55	18.54	18.48
10	64QAM	1	0	18.66	18.62	18.65
10	64QAM	1	25	18.65	18.56	18.64
10	64QAM	1	49	18.59	18.62	18.46
10	64QAM	25	0	18.48	18.48	18.54
10	64QAM	25	12	18.54	18.62	18.45
10	64QAM	25	25	18.54	18.53	18.51
10	64QAM	50	0	18.76	18.54	18.57



LTE Band26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26815	2691	27015
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	20.51	20.49	20.43
5	QPSK	1	12	20.45	20.47	20.46
5	QPSK	1	24	20.39	20.46	20.48
5	QPSK	12	0	19.47	19.48	19.46
5	QPSK	12	7	19.52	19.56	19.56
5	QPSK	12	13	19.53	19.54	19.43
5	QPSK	25	0	19.52	19.52	19.48
5	16QAM	1	0	19.62	19.67	19.81
5	16QAM	1	12	19.52	19.95	19.96
5	16QAM	1	24	19.72	19.64	19.62
5	16QAM	12	0	18.56	18.53	18.52
5	16QAM	12	7	18.62	18.62	18.45
5	16QAM	12	13	18.56	18.61	18.54
5	16QAM	25	0	18.51	18.57	18.43
5	64QAM	1	0	18.72	18.55	18.61
5	64QAM	1	12	18.77	18.65	18.66
5	64QAM	1	24	18.72	18.64	18.65
5	64QAM	12	0	18.52	18.58	18.48
5	64QAM	12	7	18.52	18.54	18.42
5	64QAM	12	13	18.53	18.56	18.57
5	64QAM	25	0	18.61	18.65	18.52



LTE Band26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26805	26915	27025
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	20.43	20.43	20.41
3	QPSK	1	8	20.33	20.38	20.35
3	QPSK	1	14	20.45	20.42	20.39
3	QPSK	8	0	19.51	19.49	19.48
3	QPSK	8	4	19.84	19.53	19.33
3	QPSK	8	7	19.55	19.49	19.52
3	QPSK	15	0	19.51	19.56	19.56
3	16QAM	1	0	19.52	19.65	19.71
3	16QAM	1	8	19.65	19.66	19.65
3	16QAM	1	14	19.71	19.78	19.67
3	16QAM	8	0	18.58	18.52	18.49
3	16QAM	8	4	18.88	18.63	18.53
3	16QAM	8	7	18.58	18.57	18.51
3	16QAM	15	0	18.61	18.51	18.55
3	64QAM	1	0	18.55	18.56	18.86
3	64QAM	1	8	18.66	18.72	18.72
3	64QAM	1	14	18.54	18.62	18.65
3	64QAM	8	0	18.64	18.47	18.42
3	64QAM	8	4	18.61	18.61	18.48
3	64QAM	8	7	18.45	18.67	18.61
3	64QAM	15	0	18.62	18.58	18.43



LTE Band26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26797	26915	27033
Frequency (MHz)				824.7	836.5	847.3
1.4	QPSK	1	0	20.29	20.28	20.35
1.4	QPSK	1	3	20.21	20.36	20.24
1.4	QPSK	1	5	20.49	20.32	20.39
1.4	QPSK	3	0	19.54	19.85	19.95
1.4	QPSK	3	1	19.61	19.77	19.93
1.4	QPSK	3	3	19.57	19.94	19.61
1.4	QPSK	6	0	19.59	19.51	19.48
1.4	16QAM	1	0	19.59	19.32	19.66
1.4	16QAM	1	3	19.68	19.49	19.65
1.4	16QAM	1	5	19.58	19.67	19.69
1.4	16QAM	3	0	19.55	19.58	19.47
1.4	16QAM	3	1	19.67	19.64	19.44
1.4	16QAM	3	3	19.51	19.62	19.55
1.4	16QAM	6	0	18.64	18.53	18.55
1.4	64QAM	1	0	18.66	18.77	18.72
1.4	64QAM	1	3	18.65	18.62	18.56
1.4	64QAM	1	5	18.66	18.62	18.62
1.4	64QAM	3	0	18.54	18.51	18.46
1.4	64QAM	3	1	18.52	18.65	18.52
1.4	64QAM	3	3	18.43	18.59	18.49
1.4	64QAM	6	0	18.44	18.47	18.37





**Bottom Antenna**

LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	23.64	23.65	23.54
20	QPSK	1	49	23.53	23.50	23.34
20	QPSK	1	99	23.64	23.63	23.53
20	QPSK	50	0	22.68	22.74	22.64
20	QPSK	50	24	22.71	22.73	22.70
20	QPSK	50	50	22.66	22.76	22.61
20	QPSK	100	0	22.69	22.69	22.72
20	16QAM	1	0	22.92	23.03	22.62
20	16QAM	1	49	22.78	22.76	22.64
20	16QAM	1	99	23.10	22.79	23.09
20	16QAM	50	0	21.60	21.63	21.67
20	16QAM	50	24	21.79	21.72	21.65
20	16QAM	50	50	21.72	21.76	21.59
20	16QAM	100	0	21.75	21.67	21.72
20	64QAM	1	0	23.02	22.58	23.02
20	64QAM	1	49	22.88	23.04	22.68
20	64QAM	1	99	22.86	22.68	22.54
20	64QAM	50	0	21.55	21.67	21.64
20	64QAM	50	24	21.66	21.72	21.63
20	64QAM	50	50	21.72	21.74	21.59
20	64QAM	100	0	21.72	21.61	21.71



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	23.63	23.57	23.56
15	QPSK	1	37	23.50	23.65	23.52
15	QPSK	1	74	23.63	23.62	23.56
15	QPSK	36	0	22.61	22.67	22.51
15	QPSK	36	20	22.69	22.60	22.64
15	QPSK	36	39	22.62	22.76	22.65
15	QPSK	75	0	22.71	22.65	22.56
15	16QAM	1	0	22.88	22.96	22.99
15	16QAM	1	37	22.82	22.71	22.66
15	16QAM	1	74	22.95	22.81	22.81
15	16QAM	36	0	21.59	21.70	21.59
15	16QAM	36	20	21.71	21.74	21.61
15	16QAM	36	39	21.67	21.82	21.60
15	16QAM	75	0	21.75	21.79	21.55
15	64QAM	1	0	23.20	22.98	22.80
15	64QAM	1	37	23.08	23.18	22.74
15	64QAM	1	74	23.10	23.12	23.13
15	64QAM	36	0	21.54	21.68	21.53
15	64QAM	36	20	21.74	21.81	21.60
15	64QAM	36	39	21.77	21.82	21.75
15	64QAM	75	0	21.66	21.72	21.62



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	23.37	23.64	23.44
10	QPSK	1	25	23.28	23.40	23.19
10	QPSK	1	49	23.23	23.28	23.22
10	QPSK	25	0	22.49	22.47	22.30
10	QPSK	25	12	22.45	22.54	22.43
10	QPSK	25	25	22.51	22.56	22.42
10	QPSK	50	0	22.40	22.41	22.29
10	16QAM	1	0	22.94	23.07	22.79
10	16QAM	1	25	22.94	22.76	22.85
10	16QAM	1	49	22.60	22.69	22.64
10	16QAM	25	0	21.32	21.44	21.26
10	16QAM	25	12	21.52	21.37	21.53
10	16QAM	25	25	21.59	21.48	21.41
10	16QAM	50	0	21.41	21.50	21.27
10	64QAM	1	0	22.91	22.90	22.79
10	64QAM	1	25	22.82	22.74	22.96
10	64QAM	1	49	22.53	22.84	22.62
10	64QAM	25	0	21.52	21.53	21.31
10	64QAM	25	12	21.38	21.50	21.33
10	64QAM	25	25	21.50	21.49	21.43
10	64QAM	50	0	21.43	21.50	21.40



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	23.48	23.39	23.18
5	QPSK	1	12	23.52	23.50	23.28
5	QPSK	1	24	23.55	23.48	23.23
5	QPSK	12	0	22.50	22.42	22.32
5	QPSK	12	7	22.49	22.52	22.39
5	QPSK	12	13	22.47	22.54	22.35
5	QPSK	25	0	22.52	22.49	22.40
5	16QAM	1	0	22.95	22.70	22.77
5	16QAM	1	12	22.88	22.60	22.84
5	16QAM	1	24	22.62	22.68	22.59
5	16QAM	12	0	21.54	21.48	21.39
5	16QAM	12	7	21.58	21.58	21.43
5	16QAM	12	13	21.56	21.49	21.42
5	16QAM	25	0	21.52	21.39	21.36
5	64QAM	1	0	22.90	22.62	22.85
5	64QAM	1	12	22.95	22.69	22.58
5	64QAM	1	24	22.96	22.69	22.50
5	64QAM	12	0	21.47	21.39	21.34
5	64QAM	12	7	21.49	21.57	21.44
5	64QAM	12	13	21.46	21.53	21.35
5	64QAM	25	0	21.60	21.37	21.37



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	23.35	23.40	23.25
3	QPSK	1	8	23.37	23.46	23.43
3	QPSK	1	14	23.39	23.47	23.30
3	QPSK	8	0	22.50	22.47	22.29
3	QPSK	8	4	22.53	22.44	22.33
3	QPSK	8	7	22.50	22.60	22.34
3	QPSK	15	0	22.49	22.51	22.32
3	16QAM	1	0	22.76	22.62	22.66
3	16QAM	1	8	22.62	22.76	22.61
3	16QAM	1	14	22.64	22.88	22.59
3	16QAM	8	0	21.51	21.54	21.44
3	16QAM	8	4	21.68	21.61	21.33
3	16QAM	8	7	21.49	21.50	21.38
3	16QAM	15	0	21.56	21.49	21.32
3	64QAM	1	0	22.67	22.70	22.32
3	64QAM	1	8	22.74	22.69	22.36
3	64QAM	1	14	22.63	22.65	22.46
3	64QAM	8	0	21.45	21.62	21.32
3	64QAM	8	4	21.49	21.44	21.34
3	64QAM	8	7	21.54	21.61	21.26
3	64QAM	15	0	21.43	21.52	21.27



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	23.36	23.37	23.17
1.4	QPSK	1	3	23.42	23.44	23.23
1.4	QPSK	1	5	23.36	23.39	23.17
1.4	QPSK	3	0	23.41	23.38	23.20
1.4	QPSK	3	1	23.34	23.38	23.28
1.4	QPSK	3	3	23.38	23.40	23.22
1.4	QPSK	6	0	22.42	22.44	22.23
1.4	16QAM	1	0	22.57	22.98	22.54
1.4	16QAM	1	3	22.59	22.64	22.51
1.4	16QAM	1	5	22.54	22.83	22.52
1.4	16QAM	3	0	22.46	22.41	22.23
1.4	16QAM	3	1	22.41	22.40	22.32
1.4	16QAM	3	3	22.32	22.55	22.31
1.4	16QAM	6	0	21.48	21.41	21.53
1.4	64QAM	1	0	22.52	22.41	22.45
1.4	64QAM	1	3	22.57	22.65	22.55
1.4	64QAM	1	5	22.61	22.90	22.70
1.4	64QAM	3	0	22.71	22.52	22.28
1.4	64QAM	3	1	22.29	22.53	22.35
1.4	64QAM	3	3	22.64	22.49	22.37
1.4	64QAM	6	0	21.42	21.52	21.24



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	23.70	23.67	23.44
20	QPSK	1	49	23.46	23.42	23.34
20	QPSK	1	99	23.37	23.45	23.35
20	QPSK	50	0	22.74	22.64	22.61
20	QPSK	50	24	22.72	22.51	22.47
20	QPSK	50	50	22.58	22.43	22.30
20	QPSK	100	0	22.62	22.43	22.55
20	16QAM	1	0	22.83	22.82	22.85
20	16QAM	1	49	22.84	22.83	22.56
20	16QAM	1	99	22.69	22.67	22.55
20	16QAM	50	0	21.72	21.57	21.61
20	16QAM	50	24	21.66	21.45	21.53
20	16QAM	50	50	21.48	21.47	21.39
20	16QAM	100	0	21.63	21.57	21.43
20	64QAM	1	0	22.92	22.53	22.71
20	64QAM	1	49	22.69	22.61	22.60
20	64QAM	1	99	22.62	22.97	22.50
20	64QAM	50	0	21.78	21.50	21.57
20	64QAM	50	24	21.62	21.49	21.50
20	64QAM	50	50	21.60	21.42	21.38
20	64QAM	100	0	21.62	21.57	21.51



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	23.69	23.54	23.52
15	QPSK	1	37	23.40	23.36	23.21
15	QPSK	1	74	23.42	23.33	23.35
15	QPSK	36	0	22.72	22.54	22.48
15	QPSK	36	20	22.61	22.45	22.47
15	QPSK	36	39	22.59	22.41	22.41
15	QPSK	75	0	22.69	22.50	22.46
15	16QAM	1	0	22.87	22.76	22.74
15	16QAM	1	37	22.61	22.50	22.51
15	16QAM	1	74	22.72	22.90	22.82
15	16QAM	36	0	21.71	21.64	21.60
15	16QAM	36	20	21.56	21.56	21.50
15	16QAM	36	39	21.63	21.39	21.41
15	16QAM	75	0	21.68	21.53	21.51
15	64QAM	1	0	22.66	22.82	22.66
15	64QAM	1	37	22.37	22.61	22.82
15	64QAM	1	74	22.39	22.40	22.56
15	64QAM	36	0	21.74	21.67	21.55
15	64QAM	36	20	21.65	21.52	21.49
15	64QAM	36	39	21.59	21.51	21.36
15	64QAM	75	0	21.65	21.54	21.54





LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	23.69	23.66	23.43
10	QPSK	1	25	23.45	23.41	23.33
10	QPSK	1	49	23.36	23.44	23.34
10	QPSK	25	0	22.73	22.63	22.60
10	QPSK	25	12	22.71	22.50	22.46
10	QPSK	25	25	22.57	22.42	22.29
10	QPSK	50	0	22.61	22.42	22.54
10	16QAM	1	0	22.82	22.81	22.84
10	16QAM	1	25	22.83	22.82	22.55
10	16QAM	1	49	22.68	22.66	22.54
10	16QAM	25	0	21.71	21.56	21.60
10	16QAM	25	12	21.65	21.44	21.52
10	16QAM	25	25	21.47	21.46	21.38
10	16QAM	50	0	21.62	21.56	21.42
10	64QAM	1	0	22.91	22.52	22.70
10	64QAM	1	25	22.68	22.60	22.59
10	64QAM	1	49	22.61	22.96	22.49
10	64QAM	25	0	21.77	21.49	21.56
10	64QAM	25	12	21.61	21.48	21.49
10	64QAM	25	25	21.59	21.41	21.37
10	64QAM	50	0	21.61	21.56	21.50



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	23.68	23.53	23.51
5	QPSK	1	12	23.39	23.35	23.20
5	QPSK	1	24	23.41	23.32	23.34
5	QPSK	12	0	22.71	22.53	22.47
5	QPSK	12	7	22.60	22.44	22.46
5	QPSK	12	13	22.58	22.40	22.40
5	QPSK	25	0	22.68	22.49	22.45
5	16QAM	1	0	22.86	22.75	22.73
5	16QAM	1	12	22.60	22.49	22.50
5	16QAM	1	24	22.71	22.89	22.81
5	16QAM	12	0	21.70	21.63	21.59
5	16QAM	12	7	21.55	21.55	21.49
5	16QAM	12	13	21.62	21.38	21.40
5	16QAM	25	0	21.67	21.52	21.50
5	64QAM	1	0	22.65	22.81	22.65
5	64QAM	1	12	22.36	22.60	22.81
5	64QAM	1	24	22.38	22.39	22.55
5	64QAM	12	0	21.73	21.66	21.54
5	64QAM	12	7	21.64	21.51	21.48
5	64QAM	12	13	21.58	21.50	21.35
5	64QAM	25	0	21.64	21.53	21.53



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	23.67	23.52	23.50
3	QPSK	1	8	23.38	23.34	23.19
3	QPSK	1	14	23.40	23.31	23.33
3	QPSK	8	0	22.70	22.52	22.46
3	QPSK	8	4	22.59	22.43	22.45
3	QPSK	8	7	22.57	22.39	22.39
3	QPSK	15	0	22.67	22.48	22.44
3	16QAM	1	0	22.85	22.74	22.72
3	16QAM	1	8	22.59	22.48	22.49
3	16QAM	1	14	22.70	22.88	22.80
3	16QAM	8	0	21.69	21.62	21.58
3	16QAM	8	4	21.54	21.54	21.48
3	16QAM	8	7	21.61	21.37	21.39
3	16QAM	15	0	21.66	21.51	21.49
3	64QAM	1	0	22.64	22.80	22.64
3	64QAM	1	8	22.35	22.59	22.80
3	64QAM	1	14	22.37	22.38	22.54
3	64QAM	8	0	21.72	21.65	21.53
3	64QAM	8	4	21.63	21.50	21.47
3	64QAM	8	7	21.57	21.49	21.34
3	64QAM	15	0	21.63	21.52	21.52



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	23.68	23.65	23.42
1.4	QPSK	1	3	23.44	23.40	23.32
1.4	QPSK	1	5	23.35	23.43	23.33
1.4	QPSK	3	0	22.72	22.62	22.59
1.4	QPSK	3	1	22.70	22.49	22.45
1.4	QPSK	3	3	22.56	22.41	22.28
1.4	QPSK	6	0	22.60	22.41	22.53
1.4	16QAM	1	0	22.81	22.80	22.83
1.4	16QAM	1	3	22.82	22.81	22.54
1.4	16QAM	1	5	22.67	22.65	22.53
1.4	16QAM	3	0	21.70	21.55	21.59
1.4	16QAM	3	1	21.64	21.43	21.51
1.4	16QAM	3	3	21.46	21.45	21.37
1.4	16QAM	6	0	21.61	21.55	21.41
1.4	64QAM	1	0	22.90	22.51	22.69
1.4	64QAM	1	3	22.67	22.59	22.58
1.4	64QAM	1	5	22.60	22.95	22.48
1.4	64QAM	3	0	21.76	21.48	21.55
1.4	64QAM	3	1	21.60	21.47	21.48
1.4	64QAM	3	3	21.58	21.40	21.36
1.4	64QAM	6	0	21.60	21.55	21.49



LTE Band5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	23.25	23.12	23.36
10	QPSK	1	25	23.00	23.14	23.08
10	QPSK	1	49	22.94	23.18	23.18
10	QPSK	25	0	21.97	22.28	22.35
10	QPSK	25	12	21.93	22.34	22.27
10	QPSK	25	25	21.91	22.30	22.28
10	QPSK	50	0	22.05	22.31	22.29
10	16QAM	1	0	22.50	22.63	22.76
10	16QAM	1	25	22.42	22.88	22.85
10	16QAM	1	49	22.39	22.44	22.67
10	16QAM	25	0	21.27	21.28	21.30
10	16QAM	25	12	20.93	21.41	21.30
10	16QAM	25	25	20.99	21.32	21.21
10	16QAM	50	0	21.28	21.16	21.26
10	64QAM	1	0	22.45	22.75	22.60
10	64QAM	1	25	22.55	22.48	22.85
10	64QAM	1	49	22.42	22.50	22.54
10	64QAM	25	0	21.12	21.34	21.24
10	64QAM	25	12	21.03	21.27	21.38
10	64QAM	25	25	20.93	21.31	21.23
10	64QAM	50	0	21.20	21.22	21.26



LTE Band5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	23.31	23.30	23.27
5	QPSK	1	12	22.95	23.13	23.05
5	QPSK	1	24	22.88	23.21	23.12
5	QPSK	12	0	21.87	22.33	22.24
5	QPSK	12	7	22.02	22.36	22.18
5	QPSK	12	13	21.98	22.31	22.27
5	QPSK	25	0	21.83	22.24	22.19
5	16QAM	1	0	21.99	22.33	22.27
5	16QAM	1	12	22.00	22.45	22.36
5	16QAM	1	24	21.95	22.29	22.19
5	16QAM	12	0	21.10	21.38	21.23
5	16QAM	12	7	20.95	21.33	21.26
5	16QAM	12	13	20.95	21.25	21.27
5	16QAM	25	0	20.91	21.23	21.18
5	64QAM	1	0	22.01	22.19	22.49
5	64QAM	1	12	22.08	22.37	22.44
5	64QAM	1	24	22.00	22.14	22.00
5	64QAM	12	0	20.99	21.32	21.24
5	64QAM	12	7	20.83	21.28	21.23
5	64QAM	12	13	20.90	21.24	21.30
5	64QAM	25	0	20.89	21.34	21.19



LTE Band5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	22.89	23.16	23.27
3	QPSK	1	8	23.23	23.27	23.23
3	QPSK	1	14	22.89	23.17	23.10
3	QPSK	8	0	22.42	22.27	22.25
3	QPSK	8	4	22.35	22.32	22.29
3	QPSK	8	7	22.09	22.27	22.17
3	QPSK	15	0	22.10	22.22	22.23
3	16QAM	1	0	22.39	22.86	22.39
3	16QAM	1	8	22.45	22.84	22.51
3	16QAM	1	14	22.38	22.73	22.36
3	16QAM	8	0	21.40	21.30	21.41
3	16QAM	8	4	21.22	21.37	21.26
3	16QAM	8	7	20.94	21.37	21.20
3	16QAM	15	0	21.02	21.27	21.20
3	64QAM	1	0	22.36	22.55	22.38
3	64QAM	1	8	22.73	22.52	22.49
3	64QAM	1	14	22.45	22.43	22.25
3	64QAM	8	0	21.36	21.31	21.31
3	64QAM	8	4	21.21	21.41	21.19
3	64QAM	8	7	21.09	21.22	21.18
3	64QAM	15	0	21.07	21.22	21.19



LTE Band5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	22.96	23.04	23.02
1.4	QPSK	1	3	23.13	23.17	23.13
1.4	QPSK	1	5	23.18	22.99	22.93
1.4	QPSK	3	0	22.96	23.07	23.03
1.4	QPSK	3	1	23.10	23.01	23.06
1.4	QPSK	3	3	22.93	23.04	23.03
1.4	QPSK	6	0	22.11	22.19	22.02
1.4	16QAM	1	0	22.61	22.37	22.21
1.4	16QAM	1	3	22.24	22.37	22.66
1.4	16QAM	1	5	22.51	22.58	22.56
1.4	16QAM	3	0	22.01	22.13	22.17
1.4	16QAM	3	1	22.15	22.30	22.22
1.4	16QAM	3	3	22.25	22.24	22.07
1.4	16QAM	6	0	21.25	21.26	21.07
1.4	64QAM	1	0	22.24	22.20	22.31
1.4	64QAM	1	3	22.38	22.42	22.22
1.4	64QAM	1	5	22.28	22.23	22.23
1.4	64QAM	3	0	22.16	22.19	22.19
1.4	64QAM	3	1	22.29	22.20	22.28
1.4	64QAM	3	3	22.20	22.26	22.26
1.4	64QAM	6	0	21.28	21.29	21.17





LTE Band7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20850	21100	21350
Frequency (MHz)				2510	2535	2560
20	QPSK	1	0	20.73	20.84	20.89
20	QPSK	1	49	20.72	20.86	20.90
20	QPSK	1	99	20.89	20.92	20.86
20	QPSK	50	0	19.79	19.97	19.82
20	QPSK	50	24	19.96	20.04	19.90
20	QPSK	50	50	19.86	20.15	19.93
20	QPSK	100	0	19.99	19.95	19.88
20	16QAM	1	0	19.88	20.09	20.11
20	16QAM	1	49	20.06	20.12	20.02
20	16QAM	1	99	19.79	20.16	20.06
20	16QAM	50	0	18.93	18.96	18.98
20	16QAM	50	24	18.89	19.00	18.93
20	16QAM	50	50	18.99	19.14	18.86
20	16QAM	100	0	18.85	19.02	18.99
20	64QAM	1	0	19.81	20.21	19.89
20	64QAM	1	49	19.85	20.38	19.91
20	64QAM	1	99	20.41	19.79	19.97
20	64QAM	50	0	18.79	18.96	18.98
20	64QAM	50	24	18.87	19.10	18.92
20	64QAM	50	50	18.83	19.00	19.00
20	64QAM	100	0	19.01	18.97	18.83



LTE Band7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5
15	QPSK	1	0	20.77	20.90	20.85
15	QPSK	1	37	20.76	20.90	20.75
15	QPSK	1	74	20.84	20.91	20.91
15	QPSK	36	0	19.86	19.97	19.76
15	QPSK	36	20	19.97	20.03	19.89
15	QPSK	36	39	19.98	20.05	19.92
15	QPSK	75	0	19.88	19.89	19.93
15	16QAM	1	0	20.01	20.05	19.85
15	16QAM	1	37	20.21	20.03	20.42
15	16QAM	1	74	20.42	20.66	20.23
15	16QAM	36	0	18.87	19.01	18.90
15	16QAM	36	20	18.87	19.04	18.89
15	16QAM	36	39	18.81	19.13	18.95
15	16QAM	75	0	18.86	19.05	18.96
15	64QAM	1	0	20.00	20.24	20.15
15	64QAM	1	37	20.00	20.17	19.93
15	64QAM	1	74	20.12	20.10	19.97
15	64QAM	36	0	18.76	18.90	18.95
15	64QAM	36	20	18.95	18.99	18.89
15	64QAM	36	39	18.92	19.08	18.96
15	64QAM	75	0	18.81	19.07	18.88



LTE Band7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20800	21100	21400
Frequency (MHz)				2505	2535	2565
10	QPSK	1	0	20.74	20.81	20.86
10	QPSK	1	25	20.72	20.90	20.87
10	QPSK	1	49	20.84	20.88	20.91
10	QPSK	25	0	19.86	19.88	19.95
10	QPSK	25	12	19.85	20.07	19.87
10	QPSK	25	25	19.91	20.07	20.01
10	QPSK	50	0	19.86	19.99	19.92
10	16QAM	1	0	19.85	20.39	20.35
10	16QAM	1	25	20.42	20.51	20.35
10	16QAM	1	49	20.26	20.63	20.03
10	16QAM	25	0	18.83	19.02	18.96
10	16QAM	25	12	18.98	19.17	18.96
10	16QAM	25	25	18.94	19.08	18.97
10	16QAM	50	0	18.98	19.04	18.91
10	64QAM	1	0	20.28	20.51	20.21
10	64QAM	1	25	20.02	20.16	20.03
10	64QAM	1	49	19.91	19.94	19.96
10	64QAM	25	0	18.76	19.03	18.86
10	64QAM	25	12	18.84	19.03	18.88
10	64QAM	25	25	18.95	19.13	19.02
10	64QAM	50	0	18.91	19.07	18.93



LTE Band7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5
5	QPSK	1	0	20.75	20.92	20.87
5	QPSK	1	12	20.79	20.90	20.82
5	QPSK	1	24	20.85	20.87	20.92
5	QPSK	12	0	19.81	19.95	19.91
5	QPSK	12	7	19.92	19.98	19.84
5	QPSK	12	13	19.82	20.04	20.07
5	QPSK	25	0	19.88	19.99	19.94
5	16QAM	1	0	20.02	20.09	19.85
5	16QAM	1	12	20.34	20.42	20.48
5	16QAM	1	24	20.05	20.30	20.14
5	16QAM	12	0	18.87	19.02	18.90
5	16QAM	12	7	18.88	19.12	19.00
5	16QAM	12	13	18.88	19.12	18.97
5	16QAM	25	0	18.87	19.02	18.84
5	64QAM	1	0	20.38	20.16	19.98
5	64QAM	1	12	19.91	20.22	19.96
5	64QAM	1	24	19.97	19.92	19.99
5	64QAM	12	0	18.80	18.98	18.99
5	64QAM	12	7	18.95	19.04	18.83
5	64QAM	12	13	18.98	19.08	19.03
5	64QAM	25	0	18.97	18.96	18.87



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23060	23095	23130
Frequency (MHz)				704	707.5	711
10	QPSK	1	0	23.15	23.06	23.34
10	QPSK	1	25	23.07	23.14	23.17
10	QPSK	1	49	23.45	23.22	23.20
10	QPSK	25	0	22.28	22.30	22.34
10	QPSK	25	12	22.31	22.20	22.26
10	QPSK	25	25	22.39	22.32	22.36
10	QPSK	50	0	22.38	22.27	22.33
10	16QAM	1	0	22.50	22.74	22.53
10	16QAM	1	25	22.43	22.51	22.46
10	16QAM	1	49	22.73	22.86	22.86
10	16QAM	25	0	21.36	21.40	21.48
10	16QAM	25	12	21.44	21.34	21.19
10	16QAM	25	25	21.27	21.39	21.32
10	16QAM	50	0	21.38	21.36	21.28
10	64QAM	1	0	22.85	22.58	22.63
10	64QAM	1	25	22.55	22.51	22.75
10	64QAM	1	49	22.68	22.75	22.97
10	64QAM	25	0	21.27	21.27	21.29
10	64QAM	25	12	21.38	21.41	21.30
10	64QAM	25	25	21.48	21.49	21.39
10	64QAM	50	0	21.41	21.25	21.37



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	23.16	23.25	23.12
5	QPSK	1	12	22.98	23.28	23.29
5	QPSK	1	24	22.87	23.19	23.21
5	QPSK	12	0	21.86	22.29	22.36
5	QPSK	12	7	21.98	22.30	22.30
5	QPSK	12	13	22.16	22.27	22.29
5	QPSK	25	0	22.32	22.29	22.28
5	16QAM	1	0	22.25	22.48	22.70
5	16QAM	1	12	22.47	22.72	22.73
5	16QAM	1	24	22.29	22.72	22.26
5	16QAM	12	0	21.02	21.50	21.44
5	16QAM	12	7	21.00	21.25	21.32
5	16QAM	12	13	21.05	21.43	21.34
5	16QAM	25	0	21.01	21.36	21.37
5	64QAM	1	0	22.28	22.59	22.41
5	64QAM	1	12	22.32	22.66	22.68
5	64QAM	1	24	22.32	22.61	22.51
5	64QAM	12	0	20.99	21.30	21.31
5	64QAM	12	7	21.14	21.24	21.36
5	64QAM	12	13	21.14	21.26	21.34
5	64QAM	25	0	21.00	21.34	21.20



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5
3	QPSK	1	0	22.91	23.31	23.32
3	QPSK	1	8	23.05	23.33	23.30
3	QPSK	1	14	22.97	23.27	23.24
3	QPSK	8	0	22.69	22.31	22.29
3	QPSK	8	4	22.38	22.40	22.40
3	QPSK	8	7	22.23	22.36	22.27
3	QPSK	15	0	22.27	22.32	22.24
3	16QAM	1	0	22.39	22.36	22.42
3	16QAM	1	8	22.64	22.43	22.51
3	16QAM	1	14	22.77	22.75	22.44
3	16QAM	8	0	21.37	21.41	21.37
3	16QAM	8	4	21.61	21.45	21.54
3	16QAM	8	7	21.30	21.50	21.39
3	16QAM	15	0	21.30	21.27	21.31
3	64QAM	1	0	22.35	22.49	22.32
3	64QAM	1	8	22.40	22.58	22.49
3	64QAM	1	14	22.17	22.47	22.35
3	64QAM	8	0	21.64	21.35	21.31
3	64QAM	8	4	21.32	21.28	21.35
3	64QAM	8	7	21.58	21.30	21.38
3	64QAM	15	0	21.58	21.31	21.31



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3
1.4	QPSK	1	0	22.98	23.09	23.14
1.4	QPSK	1	3	22.99	23.21	23.16
1.4	QPSK	1	5	22.81	23.21	23.14
1.4	QPSK	3	0	23.10	23.16	23.17
1.4	QPSK	3	1	22.97	23.21	23.25
1.4	QPSK	3	3	23.37	23.23	23.16
1.4	QPSK	6	0	22.35	22.28	22.22
1.4	16QAM	1	0	22.61	22.12	22.58
1.4	16QAM	1	3	22.52	22.55	22.16
1.4	16QAM	1	5	22.30	22.29	22.40
1.4	16QAM	3	0	22.29	22.32	22.28
1.4	16QAM	3	1	22.44	22.16	22.37
1.4	16QAM	3	3	22.14	22.31	22.04
1.4	16QAM	6	0	21.44	21.36	21.30
1.4	64QAM	1	0	22.57	22.40	22.44
1.4	64QAM	1	3	22.62	22.48	22.59
1.4	64QAM	1	5	22.14	22.30	22.58
1.4	64QAM	3	0	22.28	22.37	22.25
1.4	64QAM	3	1	22.20	22.15	22.55
1.4	64QAM	3	3	22.40	22.29	22.24
1.4	64QAM	6	0	21.41	21.27	21.26





LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23780	23790	23800
Frequency (MHz)				709	710	711
10	QPSK	1	0	23.08	22.90	22.89
10	QPSK	1	25	23.11	23.19	22.95
10	QPSK	1	49	23.22	23.23	22.99
10	QPSK	25	0	22.08	22.11	22.15
10	QPSK	25	12	22.22	22.21	22.16
10	QPSK	25	25	22.16	22.25	22.24
10	QPSK	50	0	22.25	22.19	22.17
10	16QAM	1	0	22.46	22.50	22.24
10	16QAM	1	25	22.43	22.58	22.33
10	16QAM	1	49	22.61	22.22	22.63
10	16QAM	25	0	21.17	21.08	21.19
10	16QAM	25	12	21.22	21.17	21.23
10	16QAM	25	25	21.33	21.40	21.44
10	16QAM	50	0	21.31	21.12	21.10
10	64QAM	1	0	22.84	22.59	22.97
10	64QAM	1	25	22.73	22.58	22.80
10	64QAM	1	49	22.67	23.02	22.57
10	64QAM	25	0	21.11	21.24	21.13
10	64QAM	25	12	21.28	21.23	21.22
10	64QAM	25	25	21.34	21.23	21.17
10	64QAM	50	0	21.29	21.19	21.23



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23035	23790	23155
Frequency (MHz)				706.5	710	713.5
5	QPSK	1	0	23.06	23.05	23.01
5	QPSK	1	12	23.05	22.91	23.21
5	QPSK	1	24	23.13	22.83	23.19
5	QPSK	12	0	22.09	21.98	22.20
5	QPSK	12	7	22.13	22.04	22.30
5	QPSK	12	13	22.25	21.98	22.26
5	QPSK	25	0	22.18	22.18	22.20
5	16QAM	1	0	22.23	22.26	22.52
5	16QAM	1	12	22.22	22.12	22.10
5	16QAM	1	24	22.15	22.34	22.47
5	16QAM	12	0	21.08	21.26	21.14
5	16QAM	12	7	21.14	21.29	21.31
5	16QAM	12	13	21.18	21.16	21.29
5	16QAM	25	0	21.05	21.04	21.30
5	64QAM	1	0	22.38	22.28	22.34
5	64QAM	1	12	22.39	22.16	22.26
5	64QAM	1	24	22.27	22.21	22.66
5	64QAM	12	0	21.05	20.99	21.10
5	64QAM	12	7	21.02	21.05	21.22
5	64QAM	12	13	21.08	21.10	21.27
5	64QAM	25	0	21.04	20.97	21.17



LTE Band 19						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				24075	24075	24075
Frequency (MHz)				837.5	837.5	837.5
15	QPSK	1	0	/	23.07	/
15	QPSK	1	37	/	23.32	/
15	QPSK	1	74	/	22.96	/
15	QPSK	36	0	/	22.07	/
15	QPSK	36	20	/	22.45	/
15	QPSK	36	39	/	22.44	/
15	QPSK	75	0	/	22.24	/
15	16QAM	1	0	/	22.37	/
15	16QAM	1	37	/	22.35	/
15	16QAM	1	74	/	22.27	/
15	16QAM	36	0	/	21.05	/
15	16QAM	36	20	/	21.38	/
15	16QAM	36	39	/	21.32	/
15	16QAM	75	0	/	21.29	/
15	64QAM	1	0	/	22.32	/
15	64QAM	1	25	/	22.21	/
15	64QAM	1	49	/	22.10	/
15	64QAM	25	0	/	21.10	/
15	64QAM	25	12	/	21.25	/
15	64QAM	25	25	/	21.52	/
15	64QAM	50	0	/	21.28	/



LTE Band 19						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				24050	24075	24100
Frequency (MHz)				835	837.5	840
10	QPSK	1	0	23.06	23.05	22.99
10	QPSK	1	25	23.31	23.30	23.24
10	QPSK	1	49	22.95	22.94	22.88
10	QPSK	25	0	22.06	22.05	21.99
10	QPSK	25	12	22.44	22.43	22.37
10	QPSK	25	25	22.43	22.42	22.36
10	QPSK	50	0	22.23	22.22	22.16
10	16QAM	1	0	22.36	22.35	22.29
10	16QAM	1	25	22.34	22.33	22.27
10	16QAM	1	49	22.26	22.25	22.19
10	16QAM	25	0	21.04	21.03	20.97
10	16QAM	25	12	21.37	21.36	21.30
10	16QAM	25	25	21.31	21.30	21.24
10	16QAM	50	0	21.28	21.27	21.21
10	64QAM	1	0	22.31	22.30	22.24
10	64QAM	1	25	22.20	22.19	22.13
10	64QAM	1	49	22.09	22.08	22.02
10	64QAM	25	0	21.09	21.08	21.02
10	64QAM	25	12	21.24	21.23	21.17
10	64QAM	25	25	21.51	21.50	21.44
10	64QAM	50	0	21.27	21.26	21.20



LTE Band 19						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				24025	24075	24125
Frequency (MHz)				832.5	837.5	842.5
5	QPSK	1	0	22.95	23.03	22.99
5	QPSK	1	12	23.20	23.28	23.14
5	QPSK	1	24	23.00	23.02	22.88
5	QPSK	12	0	21.95	22.03	21.99
5	QPSK	12	7	22.33	22.41	22.27
5	QPSK	12	13	22.32	22.40	22.26
5	QPSK	25	0	22.12	22.20	22.06
5	16QAM	1	0	22.25	22.33	22.19
5	16QAM	1	12	22.23	22.31	22.17
5	16QAM	1	24	22.15	22.23	22.09
5	16QAM	12	0	20.93	21.01	20.87
5	16QAM	12	7	21.26	21.34	21.20
5	16QAM	12	13	21.20	21.28	21.14
5	16QAM	25	0	21.17	21.25	21.11
5	64QAM	1	0	22.20	22.28	22.14
5	64QAM	1	12	22.09	22.17	22.03
5	64QAM	1	24	21.98	22.06	21.92
5	64QAM	12	0	20.98	21.06	20.92
5	64QAM	12	7	21.13	21.21	21.07
5	64QAM	12	13	21.40	21.38	21.34
5	64QAM	25	0	21.16	21.24	21.10



LTE Band26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26865	26915	26965
Frequency (MHz)				831.5	836.5	841.5
15	QPSK	1	0	23.49	23.40	23.34
15	QPSK	1	37	23.29	23.34	23.28
15	QPSK	1	74	23.29	23.26	23.16
15	QPSK	36	0	22.55	22.50	22.44
15	QPSK	36	20	22.43	22.47	22.48
15	QPSK	36	39	22.48	22.51	22.34
15	QPSK	75	0	22.41	22.44	22.43
15	16QAM	1	0	22.70	22.73	22.78
15	16QAM	1	37	22.69	22.65	22.56
15	16QAM	1	74	22.65	22.82	22.84
15	16QAM	36	0	21.46	21.56	21.44
15	16QAM	36	20	21.50	21.42	21.52
15	16QAM	36	39	21.49	21.45	21.52
15	16QAM	75	0	21.53	21.47	21.39
15	64QAM	1	0	22.67	22.78	22.81
15	64QAM	1	37	22.75	22.59	22.41
15	64QAM	1	74	22.49	22.71	22.35
15	64QAM	36	0	21.44	21.52	21.41
15	64QAM	36	20	21.50	21.47	21.45
15	64QAM	36	39	21.43	21.51	21.46
15	64QAM	75	0	21.48	21.49	21.41



LTE Band26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26840	26915	26990
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	23.38	23.39	23.24
10	QPSK	1	25	23.18	23.33	23.18
10	QPSK	1	49	23.18	23.25	23.06
10	QPSK	25	0	22.38	22.49	22.34
10	QPSK	25	12	22.32	22.46	22.38
10	QPSK	25	25	22.38	22.54	22.24
10	QPSK	50	0	22.30	22.43	22.33
10	16QAM	1	0	22.59	22.72	22.68
10	16QAM	1	25	22.58	22.64	22.46
10	16QAM	1	49	22.54	22.81	22.74
10	16QAM	25	0	21.35	21.55	21.34
10	16QAM	25	12	21.39	21.41	21.42
10	16QAM	25	25	21.38	21.44	21.42
10	16QAM	50	0	21.42	21.46	21.29
10	64QAM	1	0	22.56	22.77	22.71
10	64QAM	1	25	22.64	22.58	22.31
10	64QAM	1	49	22.38	22.70	22.35
10	64QAM	25	0	21.33	21.51	21.31
10	64QAM	25	12	21.39	21.46	21.35
10	64QAM	25	25	21.32	21.50	21.36
10	64QAM	50	0	21.37	21.48	21.31



LTE Band26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26815	2691	27015
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	23.44	23.47	23.24
5	QPSK	1	12	23.24	23.41	23.18
5	QPSK	1	24	23.24	23.33	23.06
5	QPSK	12	0	22.44	22.57	22.34
5	QPSK	12	7	22.38	22.54	22.38
5	QPSK	12	13	22.44	22.62	22.24
5	QPSK	25	0	22.36	22.51	22.33
5	16QAM	1	0	22.65	22.80	22.68
5	16QAM	1	12	22.64	22.72	22.46
5	16QAM	1	24	22.60	22.89	22.74
5	16QAM	12	0	21.41	21.63	21.34
5	16QAM	12	7	21.45	21.49	21.42
5	16QAM	12	13	21.44	21.52	21.42
5	16QAM	25	0	21.48	21.54	21.29
5	64QAM	1	0	22.62	22.85	22.71
5	64QAM	1	12	22.70	22.66	22.41
5	64QAM	1	24	22.44	22.78	22.55
5	64QAM	12	0	21.39	21.59	21.31
5	64QAM	12	7	21.45	21.54	21.35
5	64QAM	12	13	21.38	21.58	21.36
5	64QAM	25	0	21.43	21.56	21.31





LTE Band26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26805	26915	27025
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	23.36	23.39	23.16
3	QPSK	1	8	23.16	23.33	23.10
3	QPSK	1	14	23.16	23.25	22.98
3	QPSK	8	0	22.36	22.49	22.26
3	QPSK	8	4	22.30	22.46	22.30
3	QPSK	8	7	22.36	22.54	22.16
3	QPSK	15	0	22.28	22.43	22.25
3	16QAM	1	0	22.57	22.72	22.60
3	16QAM	1	8	22.56	22.64	22.38
3	16QAM	1	14	22.52	22.81	22.66
3	16QAM	8	0	21.33	21.55	21.26
3	16QAM	8	4	21.37	21.41	21.34
3	16QAM	8	7	21.36	21.44	21.34
3	16QAM	15	0	21.40	21.46	21.21
3	64QAM	1	0	22.54	22.77	22.63
3	64QAM	1	8	22.62	22.58	22.33
3	64QAM	1	14	22.36	22.70	22.57
3	64QAM	8	0	21.31	21.51	21.23
3	64QAM	8	4	21.37	21.46	21.27
3	64QAM	8	7	21.30	21.50	21.28
3	64QAM	15	0	21.35	21.48	21.23



LTE Band26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26797	26915	27033
Frequency (MHz)				824.7	836.5	847.3
1.4	QPSK	1	0	23.44	23.35	23.29
1.4	QPSK	1	3	23.24	23.29	23.23
1.4	QPSK	1	5	23.24	23.21	23.11
1.4	QPSK	3	0	22.44	22.45	22.39
1.4	QPSK	3	1	22.38	22.42	22.43
1.4	QPSK	3	3	22.44	22.50	22.29
1.4	QPSK	6	0	22.36	22.39	22.38
1.4	16QAM	1	0	22.65	22.68	22.73
1.4	16QAM	1	3	22.64	22.60	22.51
1.4	16QAM	1	5	22.60	22.77	22.79
1.4	16QAM	3	0	21.41	21.51	21.39
1.4	16QAM	3	1	21.45	21.37	21.47
1.4	16QAM	3	3	21.44	21.40	21.47
1.4	16QAM	6	0	21.48	21.42	21.34
1.4	64QAM	1	0	22.62	22.73	22.76
1.4	64QAM	1	3	22.70	22.54	22.36
1.4	64QAM	1	5	22.44	22.66	22.30
1.4	64QAM	3	0	21.39	21.47	21.36
1.4	64QAM	3	1	21.45	21.42	21.40
1.4	64QAM	3	3	21.38	21.46	21.41
1.4	64QAM	6	0	21.43	21.44	21.36



**Effective Radiated Power and Effective Isotropic Radiated Power:**

**Top Antenna ERP/EIRP**

LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18700		18900		19100	
Frequency (MHz)				1860		1880		1900	
				dbm	W	dbm	W	dbm	W
20	QPSK	1	0	20.07	0.102	20.12	0.103	20.08	0.102
20	QPSK	1	49	19.85	0.097	19.96	0.099	19.79	0.095
20	QPSK	1	99	19.84	0.096	19.86	0.097	19.85	0.097
20	QPSK	50	0	18.91	0.078	19.06	0.081	18.83	0.076
20	QPSK	50	24	19.07	0.081	19.05	0.080	18.99	0.079
20	QPSK	50	50	19.08	0.081	19.09	0.081	19.01	0.080
20	QPSK	100	0	18.95	0.079	18.95	0.079	18.93	0.078
20	16QAM	1	0	19.05	0.080	19.05	0.080	19.22	0.084
20	16QAM	1	49	19.11	0.081	19.05	0.080	19.11	0.081
20	16QAM	1	99	18.75	0.075	19.13	0.082	19.05	0.080
20	16QAM	50	0	18.97	0.079	18.93	0.078	19.01	0.080
20	16QAM	50	24	19.19	0.083	19.04	0.080	18.93	0.078
20	16QAM	50	50	19.04	0.080	19.03	0.080	19.02	0.080
20	16QAM	100	0	19.07	0.081	19.02	0.080	18.95	0.079
20	64QAM	1	0	19.11	0.081	18.94	0.078	19.01	0.080
20	64QAM	1	49	19.02	0.080	19.02	0.080	18.65	0.073
20	64QAM	1	99	19.05	0.080	18.87	0.077	19.38	0.087
20	64QAM	50	0	18.00	0.063	17.96	0.063	17.97	0.063
20	64QAM	50	24	17.94	0.062	18.03	0.064	18.01	0.063
20	64QAM	50	50	17.96	0.063	18.03	0.064	17.93	0.062
20	64QAM	100	0	18.12	0.065	18.03	0.064	17.94	0.062



LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18675		18900		19125	
Frequency (MHz)				1857.5		1880		1902.5	
				dbm	W	dbm	W	dbm	W
15	QPSK	1	0	19.93	0.098	19.89	0.097	19.92	0.098
15	QPSK	1	37	19.82	0.096	19.95	0.099	19.78	0.095
15	QPSK	1	74	19.91	0.098	19.92	0.098	20.01	0.100
15	QPSK	36	0	18.87	0.077	19.02	0.080	18.91	0.078
15	QPSK	36	20	18.98	0.079	18.98	0.079	19.05	0.080
15	QPSK	36	39	19.06	0.081	19.05	0.080	18.98	0.079
15	QPSK	75	0	19.08	0.081	18.99	0.079	18.93	0.078
15	16QAM	1	0	19.30	0.085	19.12	0.082	19.02	0.080
15	16QAM	1	37	18.91	0.078	19.02	0.080	19.29	0.085
15	16QAM	1	74	18.62	0.073	19.26	0.084	19.16	0.082
15	16QAM	36	0	18.86	0.077	19.02	0.080	18.84	0.077
15	16QAM	36	20	19.07	0.081	19.05	0.080	18.99	0.079
15	16QAM	36	39	19.12	0.082	19.02	0.080	19.07	0.081
15	16QAM	75	0	19.09	0.081	18.88	0.077	18.95	0.079
15	64QAM	1	0	19.03	0.080	18.62	0.073	19.18	0.083
15	64QAM	1	37	19.38	0.087	18.84	0.077	19.25	0.084
15	64QAM	1	74	18.83	0.076	19.05	0.080	19.02	0.080
15	64QAM	36	0	18.06	0.064	17.96	0.063	17.95	0.062
15	64QAM	36	20	18.05	0.064	18.08	0.064	18.04	0.064
15	64QAM	36	39	17.94	0.062	17.96	0.063	17.92	0.062
15	64QAM	75	0	17.95	0.062	18.02	0.063	17.91	0.062