



TEST REPORT

APPLICANT : Unimax Communications

PRODUCT NAME : G1401

MODEL NAME : G1401

BRAND NAME : UNI America

FCC ID : P46-G1401

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

RECEIPT DATE : 2020-08-17

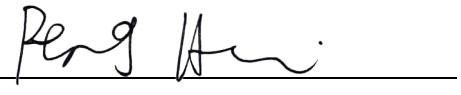
TEST DATE : 2020-08-31 to 2020-12-14

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Change History		
Version	Date	Reason for change
1.0	2020-12-23	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Unimax Communications
Applicant Address:	18201 McDermott St. West Suite E, Irvine, CA 92614, United States
Manufacturer:	Unimaxcomm
Manufacturer Address:	35th Floor, Office Building, HBC Huilong Center, Minzhi Street, Longhua District, Shenzhen, Guangdong, China

1.2. Equipment Under Test (EUT) Description

Product Name:	G1401	
Serial No.:	(N/A, marked #1 by test site)	
Hardware Version:	V1.0	
Software Version:	G1401_V1.0.0	
Modulation Type:	QPSK, 16QAM, 64QAM	
Carrier Aggregation:	Only support downlink	
Operation Band:	Band 2 / 4 / 5 / 13 / 66	
Frequency Range:	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 13	Tx: 777MHz–787MHz
		Rx: 746MHz–756MHz
	LTE Band 66	Tx: 1710MHz – 1780MHz
		Rx: 2110MHz – 2200MHz
Channel Bandwidth:	LTE Band 2	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 4	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 5	1.4MHz, 3MHz, 5MHz, 10MHz
	LTE Band 13	5 MHz, 10MHz
	LTE Band 66	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz



Antenna Type:	Fixed Internal Antenna	
Antenna Gain:	LTE Band 2	-0.07dBi
	LTE Band 4	0.27dBi
	LTE Band 5	-0.38dBi
	LTE Band 13	-2.43dBi
	LTE Band 66	0.27dBi
Accessory Information:	Battery	
	Brand Name:	Phenix New Energy
	Model No.:	BTE-4001
	Serial No.:	(N/A, marked #1 by test site)
	Capacity:	4000mAh
	Rated Voltage:	3.80V
	Charge Limit:	4.35V
	Manufacturer:	Phenix New Energy
	AC Adapter	
	Brand Name:	N/A
	Model No.:	TPA-5950100UU
	Serial No.:	(N/A, marked #1 by test site)
	Rated Output:	5V=1A
	Rated Input:	100-240V~50/60Hz, 0.2A
	Manufacturer:	ShenZhen Kingfulin Technology Co., Ltd

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 E.R.P./E.I.R.P. and Emission Designator

LTE Band 2	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	0.160	0.154	0.153	17M9G7D	18M0W7D	17M9W7D
15	0.158	0.158	0.147	13M5G7D	13M5W7D	13M5W7D
10	0.158	0.147	0.145	8M99G7D	8M97W7D	9M00W7D
5	0.158	0.153	0.152	4M54G7D	4M53W7D	4M52W7D
3	0.157	0.152	0.151	2M74G7D	2M75W7D	2M74W7D
1.4	0.156	0.151	0.150	1M12G7D	1M12W7D	1M12W7D
LTE Band 4	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	0.251	0.239	0.215	17M9G7D	18M0W7D	17M9W7D
15	0.249	0.237	0.213	13M5G7D	13M5W7D	13M5W7D
10	0.248	0.236	0.212	9M01G7D	8M98W7D	9M00W7D
5	0.247	0.236	0.212	4M54G7D	4M53W7D	4M52W7D
3	0.246	0.234	0.211	2M74G7D	2M75W7D	2M74W7D
1.4	0.245	0.233	0.210	1M12G7D	1M13W7D	1M12W7D
LTE Band 5	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.083	0.074	0.067	9M04G7D	8M99W7D	9M03W7D
5	0.084	0.073	0.067	4M54G7D	4M54W7D	4M53W7D
3	0.089	0.082	0.079	2M74G7D	2M75W7D	2M74W7D
1.4	0.100	0.090	0.088	1M12G7D	1M12W7D	1M12W7D
LTE Band 13	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.089	0.076	0.079	8M90G7D	8M90W7D	8M88W7D
5	0.089	0.074	0.074	4M53G7D	4M52W7D	4M51W7D
LTE Band 66	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	0.210	0.204	0.201	17M8G7D	17M9W7D	18M0W7D
15	0.209	0.203	0.200	13M4G7D	14M5W7D	13M5W7D
10	0.208	0.202	0.199	8M96G7D	8M96W7D	8M99W7D
5	0.207	0.201	0.198	4M52G7D	4M52W7D	4M49W7D
3	0.206	0.200	0.197	2M73G7D	2M73W7D	2M70W7D
1.4	0.205	0.199	0.196	1M11G7D	1M11W7D	1M10W7D



1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 24, 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(b)(10) 27.50(d)(4)	Transmitter Conducted Output Power and E.R.P./E.I.R.P.	Sep 21, 2020	Chen Hao Peng Xuewei	PASS	No deviation
2.1049	Occupied Bandwidth	Sep 15&16, 2020 Dec 14, 2020	Zhou Xiaolong	PASS	No deviation
2.1055 22.355 24.235 27.54	Frequency Stability	Sep 15&16, 2020	Zhou Xiaolong	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Sep 15&16, 2020 Dec 14, 2020	Zhou Xiaolong	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(c)(2) 27.53(h)	Conducted Spurious Emissions	Sep 15&16, 2020	Zhou Xiaolong	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(c)(2) 27.53(h)	Band Edge	Sep 15&16, 2020	Zhou Xiaolong	PASS	No deviation



2.1051 22.917(a) 24.238(a) 27.53(c)(2) 27.53(h)	Radiated Spurious Emissions	Aug 31, 2020 Sep 01, 2020	Peng Xuewei	PASS	No deviation
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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 23.5dB contains two parts that cable loss 13.5dB and Attenuator 10dB.

Note 3: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 4: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% risk level.

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, Part 27F&L Requirements

2.1. Transmitter Conducted Output Power and E.R.P./E.I.R.P.

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).

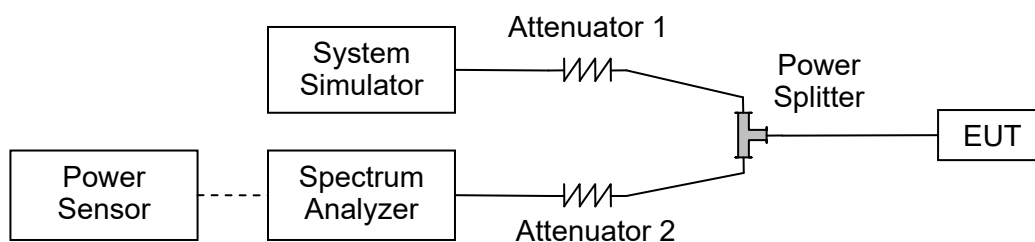
According to FCC section 24.232 (c) for LTE Band 2, Mobile and portable stations are limited to 2 watts E.I.R.P. and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

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

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

According to FCC section 27.50 (h)(2) for LTE Band 7/38/41, 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.

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.

E.I.R.P. (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

E.R.P. (dBm) = E.I.R.P. (dBm) - 2.15

2.1.4. Result

Conducted Output Power:

LTE Band 2						
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	22.08	21.57	21.82
20	QPSK	1	49	21.51	21.97	21.85
20	QPSK	1	99	21.39	22.10	21.07
20	QPSK	50	0	20.68	21.07	20.74
20	QPSK	50	24	20.44	20.85	20.71
20	QPSK	50	50	20.56	20.93	20.57
20	QPSK	100	0	20.60	20.93	20.61
20	16QAM	1	0	21.95	21.18	21.07
20	16QAM	1	49	21.18	21.64	20.79
20	16QAM	1	99	21.15	21.42	20.08
20	16QAM	50	0	19.72	19.88	19.86
20	16QAM	50	24	19.51	19.92	19.43
20	16QAM	50	50	19.54	19.96	19.73
20	16QAM	100	0	19.64	19.99	19.77
20	64QAM	1	0	21.92	20.94	20.93
20	64QAM	1	49	21.03	21.14	20.63
20	64QAM	1	99	20.74	21.04	20.17
20	64QAM	50	0	19.74	19.76	19.83
20	64QAM	50	24	19.54	19.83	19.38
20	64QAM	50	50	19.53	19.98	19.74
20	64QAM	100	0	19.63	19.91	19.78



LTE Band 2						
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	22.06	21.64	21.92
15	QPSK	1	37	21.66	22.07	22.02
15	QPSK	1	74	21.88	22.01	21.25
15	QPSK	36	0	20.62	20.55	20.72
15	QPSK	36	20	20.66	20.93	20.84
15	QPSK	36	39	20.59	21.11	20.60
15	QPSK	75	0	20.75	20.87	20.72
15	16QAM	1	0	22.05	20.72	20.94
15	16QAM	1	37	21.35	21.81	21.59
15	16QAM	1	74	20.70	21.25	20.42
15	16QAM	36	0	19.76	19.82	19.38
15	16QAM	36	20	19.65	19.98	19.60
15	16QAM	36	39	19.53	20.13	19.29
15	16QAM	75	0	19.85	19.89	19.41
15	64QAM	1	0	21.74	21.06	21.00
15	64QAM	1	37	20.62	21.18	21.54
15	64QAM	1	74	20.91	21.13	20.44
15	64QAM	36	0	19.67	19.74	19.34
15	64QAM	36	20	19.59	20.07	19.53
15	64QAM	36	39	19.57	20.02	19.24
15	64QAM	75	0	19.75	19.86	19.40



LTE Band 2						
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	21.96	21.44	21.67
10	QPSK	1	25	22.05	22.05	21.49
10	QPSK	1	49	21.97	21.81	21.04
10	QPSK	25	0	20.63	20.67	20.84
10	QPSK	25	12	20.82	21.09	20.75
10	QPSK	25	25	20.66	21.03	20.31
10	QPSK	50	0	20.71	20.76	20.67
10	16QAM	1	0	21.74	21.19	20.92
10	16QAM	1	25	20.98	21.22	20.95
10	16QAM	1	49	21.10	21.53	20.25
10	16QAM	25	0	19.79	19.87	19.59
10	16QAM	25	12	19.79	20.19	19.59
10	16QAM	25	25	19.72	20.08	19.39
10	16QAM	50	0	19.72	19.86	19.40
10	64QAM	1	0	21.68	20.56	21.15
10	64QAM	1	25	20.96	21.35	20.91
10	64QAM	1	49	20.78	20.96	19.90
10	64QAM	25	0	19.78	19.77	19.65
10	64QAM	25	12	19.68	20.01	19.43
10	64QAM	25	25	19.70	20.01	19.16
10	64QAM	50	0	19.69	19.91	19.38



LTE Band 2						
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	22.07	21.54	21.79
5	QPSK	1	12	21.48	21.94	21.82
5	QPSK	1	24	21.36	21.96	21.04
5	QPSK	12	0	20.65	20.59	20.71
5	QPSK	12	7	20.41	20.82	20.68
5	QPSK	12	13	20.53	20.90	20.54
5	QPSK	25	0	20.57	20.90	20.58
5	16QAM	1	0	21.92	21.15	21.04
5	16QAM	1	12	21.15	21.61	20.76
5	16QAM	1	24	21.12	21.39	20.05
5	16QAM	12	0	19.69	19.85	19.83
5	16QAM	12	7	19.48	19.89	19.40
5	16QAM	12	13	19.51	19.93	19.70
5	16QAM	25	0	19.61	19.96	19.74
5	64QAM	1	0	21.89	20.91	20.90
5	64QAM	1	12	21.00	21.11	20.60
5	64QAM	1	24	20.71	21.01	20.14
5	64QAM	12	0	19.71	19.73	19.80
5	64QAM	12	7	19.51	19.80	19.35
5	64QAM	12	13	19.50	19.95	19.71
5	64QAM	25	0	19.60	19.88	19.75



LTE Band 2						
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	22.04	21.51	21.76
3	QPSK	1	8	21.45	21.91	21.79
3	QPSK	1	14	21.33	21.93	21.01
3	QPSK	8	0	20.62	20.56	20.68
3	QPSK	8	4	20.38	20.79	20.65
3	QPSK	8	7	20.50	20.87	20.51
3	QPSK	15	0	20.54	20.87	20.55
3	16QAM	1	0	21.89	21.12	21.01
3	16QAM	1	8	21.12	21.58	20.73
3	16QAM	1	14	21.09	21.36	20.02
3	16QAM	8	0	19.66	19.82	19.80
3	16QAM	8	4	19.45	19.86	19.37
3	16QAM	8	7	19.48	19.90	19.67
3	16QAM	15	0	19.58	19.93	19.71
3	64QAM	1	0	21.86	20.88	20.87
3	64QAM	1	8	20.97	21.08	20.57
3	64QAM	1	14	20.68	20.98	20.11
3	64QAM	8	0	19.68	19.70	19.77
3	64QAM	8	4	19.48	19.77	19.32
3	64QAM	8	7	19.47	19.92	19.68
3	64QAM	15	0	19.57	19.85	19.72



LTE Band 2						
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	22.01	21.48	21.73
1.4	QPSK	1	3	21.42	21.88	21.76
1.4	QPSK	1	5	21.30	21.90	20.98
1.4	QPSK	3	0	20.59	20.53	20.65
1.4	QPSK	3	1	20.35	20.76	20.62
1.4	QPSK	3	3	20.47	20.84	20.48
1.4	QPSK	6	0	20.51	20.84	20.52
1.4	16QAM	1	0	21.86	21.09	20.98
1.4	16QAM	1	3	21.09	21.55	20.70
1.4	16QAM	1	5	21.06	21.33	19.99
1.4	16QAM	3	0	19.63	19.79	19.77
1.4	16QAM	3	1	19.42	19.83	19.34
1.4	16QAM	3	3	19.45	19.87	19.64
1.4	16QAM	6	0	19.55	19.90	19.68
1.4	64QAM	1	0	21.83	20.85	20.84
1.4	64QAM	1	3	20.94	21.05	20.54
1.4	64QAM	1	5	20.65	20.95	20.08
1.4	64QAM	3	0	19.65	19.67	19.74
1.4	64QAM	3	1	19.45	19.74	19.29
1.4	64QAM	3	3	19.44	19.89	19.65
1.4	64QAM	6	0	19.54	19.82	19.69



LTE Band 4						
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	23.39	23.72	23.32
20	QPSK	1	49	23.64	23.42	23.47
20	QPSK	1	99	23.01	23.44	23.58
20	QPSK	50	0	22.78	22.85	22.96
20	QPSK	50	24	22.76	22.69	22.88
20	QPSK	50	50	22.68	22.89	22.87
20	QPSK	100	0	22.75	22.88	22.95
20	16QAM	1	0	22.97	23.07	23.51
20	16QAM	1	49	23.14	22.30	23.10
20	16QAM	1	99	22.34	23.11	22.51
20	16QAM	50	0	21.93	21.56	21.66
20	16QAM	50	24	21.87	21.15	21.70
20	16QAM	50	50	21.68	21.39	21.42
20	16QAM	100	0	21.78	21.39	21.61
20	64QAM	1	0	23.05	22.88	22.48
20	64QAM	1	49	22.92	22.26	22.21
20	64QAM	1	99	22.24	22.92	22.35
20	64QAM	50	0	21.89	21.61	21.55
20	64QAM	50	24	21.90	21.09	21.60
20	64QAM	50	50	21.71	21.40	21.36
20	64QAM	100	0	21.80	21.32	21.55



LTE Band 4						
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	23.36	23.69	23.29
15	QPSK	1	37	23.61	22.89	23.44
15	QPSK	1	74	22.98	23.41	23.55
15	QPSK	36	0	22.75	22.82	22.93
15	QPSK	36	20	22.73	22.66	22.85
15	QPSK	36	39	22.65	22.86	22.84
15	QPSK	75	0	22.72	22.85	22.92
15	16QAM	1	0	22.94	23.04	23.48
15	16QAM	1	37	23.11	22.27	23.07
15	16QAM	1	74	22.31	23.08	22.48
15	16QAM	36	0	21.90	21.53	21.63
15	16QAM	36	20	21.84	21.12	21.67
15	16QAM	36	39	21.65	21.36	21.39
15	16QAM	75	0	21.75	21.36	21.58
15	64QAM	1	0	23.02	22.85	22.45
15	64QAM	1	37	22.89	22.23	22.18
15	64QAM	1	74	22.21	22.89	22.32
15	64QAM	36	0	21.86	21.58	21.52
15	64QAM	36	20	21.87	21.06	21.57
15	64QAM	36	39	21.68	21.37	21.33
15	64QAM	75	0	21.77	21.29	21.52



LTE Band 4						
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	23.34	23.67	23.27
10	QPSK	1	25	23.59	22.87	23.42
10	QPSK	1	49	22.96	23.39	23.53
10	QPSK	25	0	22.73	22.80	22.91
10	QPSK	25	12	22.71	22.64	22.83
10	QPSK	25	25	22.63	22.84	22.82
10	QPSK	50	0	22.70	22.83	22.90
10	16QAM	1	0	22.92	23.02	23.46
10	16QAM	1	25	23.09	22.25	23.05
10	16QAM	1	49	22.29	23.06	22.46
10	16QAM	25	0	21.88	21.51	21.61
10	16QAM	25	12	21.82	21.10	21.65
10	16QAM	25	25	21.63	21.34	21.37
10	16QAM	50	0	21.73	21.34	21.56
10	64QAM	1	0	23.00	22.83	22.43
10	64QAM	1	25	22.87	22.21	22.16
10	64QAM	1	49	22.19	22.87	22.30
10	64QAM	25	0	21.84	21.56	21.50
10	64QAM	25	12	21.85	21.04	21.55
10	64QAM	25	25	21.66	21.35	21.31
10	64QAM	50	0	21.75	21.27	21.50



LTE Band 4						
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	23.33	23.66	23.26
5	QPSK	1	12	23.58	22.86	23.41
5	QPSK	1	24	22.95	23.38	23.52
5	QPSK	12	0	22.72	22.79	22.90
5	QPSK	12	7	22.70	22.63	22.82
5	QPSK	12	13	22.62	22.83	22.81
5	QPSK	25	0	22.69	22.82	22.89
5	16QAM	1	0	22.91	23.01	23.45
5	16QAM	1	12	23.08	22.24	23.04
5	16QAM	1	24	22.28	23.05	22.45
5	16QAM	12	0	21.87	21.50	21.60
5	16QAM	12	7	21.81	21.09	21.64
5	16QAM	12	13	21.62	21.33	21.36
5	16QAM	25	0	21.72	21.33	21.55
5	64QAM	1	0	22.99	22.82	22.42
5	64QAM	1	12	22.86	22.20	22.15
5	64QAM	1	24	22.18	22.86	22.29
5	64QAM	12	0	21.83	21.55	21.49
5	64QAM	12	7	21.84	21.03	21.54
5	64QAM	12	13	21.65	21.34	21.30
5	64QAM	25	0	21.74	21.26	21.49



LTE Band 4						
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	23.31	23.64	23.24
3	QPSK	1	8	23.56	22.84	23.39
3	QPSK	1	14	22.93	23.36	23.50
3	QPSK	8	0	22.70	22.77	22.88
3	QPSK	8	4	22.68	22.61	22.80
3	QPSK	8	7	22.60	22.81	22.79
3	QPSK	15	0	22.67	22.80	22.87
3	16QAM	1	0	22.89	22.99	23.43
3	16QAM	1	8	23.06	22.22	23.02
3	16QAM	1	14	22.26	23.03	22.43
3	16QAM	8	0	21.85	21.48	21.58
3	16QAM	8	4	21.79	21.07	21.62
3	16QAM	8	7	21.60	21.31	21.34
3	16QAM	15	0	21.70	21.31	21.53
3	64QAM	1	0	22.97	22.80	22.40
3	64QAM	1	8	22.84	22.18	22.13
3	64QAM	1	14	22.16	22.84	22.27
3	64QAM	8	0	21.81	21.53	21.47
3	64QAM	8	4	21.82	21.01	21.52
3	64QAM	8	7	21.63	21.32	21.28
3	64QAM	15	0	21.72	21.24	21.47



LTE Band 4						
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	23.29	23.62	23.22
1.4	QPSK	1	3	23.54	22.82	23.37
1.4	QPSK	1	5	22.91	23.34	23.48
1.4	QPSK	3	0	22.68	22.75	22.86
1.4	QPSK	3	1	22.66	22.59	22.78
1.4	QPSK	3	3	22.58	22.79	22.77
1.4	QPSK	6	0	22.65	22.78	22.85
1.4	16QAM	1	0	22.87	22.97	23.41
1.4	16QAM	1	3	23.04	22.20	23.00
1.4	16QAM	1	5	22.24	23.01	22.41
1.4	16QAM	3	0	21.83	21.46	21.56
1.4	16QAM	3	1	21.77	21.05	21.60
1.4	16QAM	3	3	21.58	21.29	21.32
1.4	16QAM	6	0	21.68	21.29	21.51
1.4	64QAM	1	0	22.95	22.78	22.38
1.4	64QAM	1	3	22.82	22.16	22.11
1.4	64QAM	1	5	22.14	22.82	22.25
1.4	64QAM	3	0	21.79	21.51	21.45
1.4	64QAM	3	1	21.80	20.99	21.50
1.4	64QAM	3	3	21.61	21.30	21.26
1.4	64QAM	6	0	21.70	21.22	21.45



LTE Band 5						
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	21.63	21.48	21.56
10	QPSK	1	25	21.70	21.71	21.45
10	QPSK	1	49	21.50	21.7	21.55
10	QPSK	25	0	20.91	20.49	20.77
10	QPSK	25	12	20.74	20.49	20.62
10	QPSK	25	25	20.65	20.58	20.83
10	QPSK	50	0	20.77	20.58	20.72
10	16QAM	1	0	21.02	20.96	20.9
10	16QAM	1	25	20.62	20.72	20.99
10	16QAM	1	49	21.07	20.82	21.2
10	16QAM	25	0	19.95	19.65	19.62
10	16QAM	25	12	19.79	19.64	19.65
10	16QAM	25	25	19.68	19.6	19.71
10	16QAM	50	0	19.76	19.7	19.78
10	64QAM	1	0	20.82	20.6	20.77
10	64QAM	1	25	20.81	20.37	20.36
10	64QAM	1	49	20.68	20.54	20.77
10	64QAM	25	0	19.77	19.51	19.62
10	64QAM	25	12	19.85	19.6	19.78
10	64QAM	25	25	19.7	19.53	19.69
10	64QAM	50	0	19.69	19.68	19.68



LTE Band 5						
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	21.78	21.44	21.53
5	QPSK	1	12	21.65	21.47	21.42
5	QPSK	1	24	21.45	21.66	21.52
5	QPSK	12	0	20.86	20.45	20.74
5	QPSK	12	7	20.89	20.50	20.59
5	QPSK	12	13	20.60	20.54	20.80
5	QPSK	25	0	20.72	20.54	20.69
5	16QAM	1	0	20.97	20.92	20.87
5	16QAM	1	12	20.57	20.68	20.96
5	16QAM	1	24	21.02	20.78	21.17
5	16QAM	12	0	19.90	19.61	19.59
5	16QAM	12	7	19.74	19.60	19.62
5	16QAM	12	13	19.63	19.56	19.68
5	16QAM	25	0	19.71	19.66	19.75
5	64QAM	1	0	20.77	20.56	20.74
5	64QAM	1	12	20.76	20.33	20.33
5	64QAM	1	24	20.63	20.50	20.74
5	64QAM	12	0	19.72	19.47	19.59
5	64QAM	12	7	19.80	19.56	19.75
5	64QAM	12	13	19.65	19.49	19.66
5	64QAM	25	0	19.64	19.64	19.65



LTE Band 5						
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	20.23	21.87	21.8
3	QPSK	1	8	21.79	21.93	21.92
3	QPSK	1	14	22.02	21.91	20.1
3	QPSK	8	0	21.25	21.28	21.29
3	QPSK	8	4	20.98	20.97	21.02
3	QPSK	8	7	20.91	20.94	20.95
3	QPSK	15	0	21.03	20.97	21.06
3	16QAM	1	0	19.26	21.08	21.17
3	16QAM	1	8	21.29	21.58	21.22
3	16QAM	1	14	21.69	21.27	19.71
3	16QAM	8	0	20.35	20.34	20.38
3	16QAM	8	4	19.95	19.98	20.02
3	16QAM	8	7	19.93	19.86	19.87
3	16QAM	15	0	19.93	20	20.02
3	64QAM	1	0	19.8	20.88	21.09
3	64QAM	1	8	21.48	21.16	21.41
3	64QAM	1	14	20.95	21.15	19.05
3	64QAM	8	0	20.29	20.26	20.19
3	64QAM	8	4	19.89	20.05	20
3	64QAM	8	7	19.84	20.01	19.9
3	64QAM	15	0	20.13	20.1	19.92



LTE Band 5						
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	22.53	22.02	21.97
1.4	QPSK	1	3	22.49	22.30	22.29
1.4	QPSK	1	5	22.07	21.77	22.41
1.4	QPSK	3	0	22.2	22.21	21.89
1.4	QPSK	3	1	22.40	22.18	22.15
1.4	QPSK	3	3	22.12	21.90	21.96
1.4	QPSK	6	0	21.23	21.11	21.18
1.4	16QAM	1	0	21.79	21.13	21.04
1.4	16QAM	1	3	22.08	21.91	21.36
1.4	16QAM	1	5	21.38	21.46	21.54
1.4	16QAM	3	0	21.13	21.24	20.94
1.4	16QAM	3	1	21.37	21.22	21.22
1.4	16QAM	3	3	21.21	21.06	21.04
1.4	16QAM	6	0	20.39	20.20	20.27
1.4	64QAM	1	0	21.79	21.19	20.93
1.4	64QAM	1	3	21.99	21.17	21.47
1.4	64QAM	1	5	21.32	21.13	21.66
1.4	64QAM	3	0	21.30	21.25	21.07
1.4	64QAM	3	1	21.36	21.22	21.11
1.4	64QAM	3	3	21.51	21.15	21.14
1.4	64QAM	6	0	20.30	20.14	20.16



LTE Band 13						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	23230	/
Frequency (MHz)				/	782	/
10	QPSK	1	0	/	23.58	/
10	QPSK	1	25	/	23.36	/
10	QPSK	1	49	/	24.09	/
10	QPSK	25	0	/	22.83	/
10	QPSK	25	12	/	22.68	/
10	QPSK	25	25	/	22.69	/
10	QPSK	50	0	/	22.83	/
10	16QAM	1	0	/	22.74	/
10	16QAM	1	25	/	23.18	/
10	16QAM	1	49	/	23.36	/
10	16QAM	25	0	/	21.90	/
10	16QAM	25	12	/	21.68	/
10	16QAM	25	25	/	21.83	/
10	16QAM	50	0	/	21.93	/
10	64QAM	1	0	/	22.65	/
10	64QAM	1	25	/	22.65	/
10	64QAM	1	49	/	23.58	/
10	64QAM	25	0	/	21.93	/
10	64QAM	25	12	/	21.78	/
10	64QAM	25	25	/	21.79	/
10	64QAM	50	0	/	21.95	/



LTE Band 13						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23205	23230	23255
Frequency (MHz)				779.5	782	784.5
5	QPSK	1	0	23.23	23.58	23.03
5	QPSK	1	12	23.47	23.33	23.48
5	QPSK	1	24	23.06	23.12	23.88
5	QPSK	12	0	24.05	23.96	23.74
5	QPSK	12	7	23.59	23.46	23.37
5	QPSK	12	13	23.50	23.32	23.67
5	QPSK	25	0	22.42	22.39	22.74
5	16QAM	1	0	22.39	22.80	22.19
5	16QAM	1	12	22.83	22.99	23.11
5	16QAM	1	24	22.89	22.38	23.07
5	16QAM	12	0	23.25	23.17	22.75
5	16QAM	12	7	22.75	22.55	22.68
5	16QAM	12	13	22.68	22.49	22.81
5	16QAM	25	0	21.60	21.37	21.89
5	64QAM	1	0	22.58	23.02	22.26
5	64QAM	1	12	22.73	22.67	22.81
5	64QAM	1	24	22.40	22.44	22.97
5	64QAM	12	0	23.26	23.19	22.78
5	64QAM	12	7	22.82	22.55	22.61
5	64QAM	12	13	22.83	22.52	22.74
5	64QAM	25	0	21.64	21.44	21.78



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132072	132322	132572
Frequency (MHz)				1720	1745	1770
20	QPSK	1	0	22.23	21.77	22.24
20	QPSK	1	49	22.96	22.35	22.87
20	QPSK	1	99	22.07	22.31	22.00
20	QPSK	50	0	21.74	21.62	21.85
20	QPSK	50	24	21.58	21.53	21.65
20	QPSK	50	50	21.40	21.39	21.25
20	QPSK	100	0	21.61	21.39	21.45
20	16QAM	1	0	22.74	22.64	22.38
20	16QAM	1	49	22.82	22.56	22.77
20	16QAM	1	99	22.81	22.54	22.83
20	16QAM	50	0	21.50	21.78	21.78
20	16QAM	50	24	21.30	21.72	21.68
20	16QAM	50	50	21.29	21.61	21.30
20	16QAM	100	0	21.29	21.68	21.56
20	64QAM	1	0	22.66	22.55	22.21
20	64QAM	1	49	22.74	22.47	22.71
20	64QAM	1	99	22.73	22.45	22.77
20	64QAM	50	0	21.42	21.69	21.70
20	64QAM	50	24	21.22	21.63	21.62
20	64QAM	50	50	21.31	21.52	21.24
20	64QAM	100	0	21.21	21.59	21.50



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5
15	QPSK	1	0	22.20	21.74	22.21
15	QPSK	1	37	22.93	22.32	22.84
15	QPSK	1	74	22.04	22.28	21.97
15	QPSK	36	0	21.71	21.59	21.52
15	QPSK	36	20	21.55	21.50	21.62
15	QPSK	36	39	21.37	21.36	21.22
15	QPSK	75	0	21.58	21.36	21.42
15	16QAM	1	0	22.71	22.61	22.35
15	16QAM	1	37	22.79	22.53	22.74
15	16QAM	1	74	22.78	22.51	22.80
15	16QAM	36	0	21.47	21.75	21.75
15	16QAM	36	20	21.27	21.69	21.65
15	16QAM	36	39	21.26	21.58	21.27
15	16QAM	75	0	21.26	21.65	21.53
15	64QAM	1	0	22.63	22.52	22.18
15	64QAM	1	37	22.71	22.44	22.68
15	64QAM	1	74	22.70	22.42	22.74
15	64QAM	36	0	21.39	21.66	21.67
15	64QAM	36	20	21.19	21.60	21.59
15	64QAM	36	39	21.28	21.49	21.21
15	64QAM	75	0	21.18	21.56	21.47



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132022	132322	132622
Frequency (MHz)				1715	1745	1775
10	QPSK	1	0	22.18	21.72	22.19
10	QPSK	1	25	22.91	22.30	22.82
10	QPSK	1	49	22.02	22.26	21.95
10	QPSK	25	0	21.69	21.57	21.50
10	QPSK	25	12	21.53	21.48	21.60
10	QPSK	25	25	21.35	21.34	21.20
10	QPSK	50	0	21.56	21.34	21.40
10	16QAM	1	0	22.69	22.59	22.33
10	16QAM	1	25	22.77	22.51	22.72
10	16QAM	1	49	22.76	22.49	22.78
10	16QAM	25	0	21.45	21.73	21.73
10	16QAM	25	12	21.25	21.67	21.63
10	16QAM	25	25	21.24	21.56	21.25
10	16QAM	50	0	21.24	21.63	21.51
10	64QAM	1	0	22.61	22.50	22.16
10	64QAM	1	25	22.69	22.42	22.66
10	64QAM	1	49	22.68	22.40	22.72
10	64QAM	25	0	21.37	21.64	21.65
10	64QAM	25	12	21.17	21.58	21.57
10	64QAM	25	25	21.26	21.47	21.19
10	64QAM	50	0	21.16	21.54	21.45



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5
5	QPSK	1	0	22.16	21.70	22.17
5	QPSK	1	12	22.89	22.28	22.80
5	QPSK	1	24	22.00	22.24	21.93
5	QPSK	12	0	21.67	21.55	21.48
5	QPSK	12	7	21.51	21.46	21.58
5	QPSK	12	13	21.33	21.32	21.18
5	QPSK	25	0	21.54	21.32	21.38
5	16QAM	1	0	22.67	22.57	22.31
5	16QAM	1	12	22.75	22.49	22.70
5	16QAM	1	24	22.74	22.47	22.76
5	16QAM	12	0	21.43	21.71	21.71
5	16QAM	12	7	21.23	21.65	21.61
5	16QAM	12	13	21.22	21.54	21.23
5	16QAM	25	0	21.22	21.61	21.49
5	64QAM	1	0	22.59	22.48	22.14
5	64QAM	1	12	22.67	22.40	22.64
5	64QAM	1	24	22.66	22.38	22.70
5	64QAM	12	0	21.35	21.62	21.63
5	64QAM	12	7	21.15	21.56	21.55
5	64QAM	12	13	21.24	21.45	21.17
5	64QAM	25	0	21.14	21.52	21.43



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5
3	QPSK	1	0	22.14	21.68	22.15
3	QPSK	1	8	22.87	22.26	22.78
3	QPSK	1	14	21.98	22.22	21.91
3	QPSK	8	0	21.65	21.53	21.46
3	QPSK	8	4	21.49	21.44	21.56
3	QPSK	8	7	21.31	21.30	21.16
3	QPSK	15	0	21.52	21.30	21.36
3	16QAM	1	0	22.65	22.55	22.29
3	16QAM	1	8	22.73	22.47	22.68
3	16QAM	1	14	22.72	22.45	22.74
3	16QAM	8	0	21.41	21.69	21.69
3	16QAM	8	4	21.21	21.63	21.59
3	16QAM	8	7	21.20	21.52	21.21
3	16QAM	15	0	21.20	21.59	21.47
3	64QAM	1	0	22.57	22.46	22.12
3	64QAM	1	8	22.65	22.38	22.62
3	64QAM	1	14	22.64	22.36	22.68
3	64QAM	8	0	21.33	21.60	21.61
3	64QAM	8	4	21.13	21.54	21.53
3	64QAM	8	7	21.22	21.43	21.15
3	64QAM	15	0	21.12	21.50	21.41



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3
1.4	QPSK	1	0	22.12	21.66	22.13
1.4	QPSK	1	3	22.85	22.24	22.76
1.4	QPSK	1	5	21.96	22.20	21.89
1.4	QPSK	3	0	21.63	21.51	21.44
1.4	QPSK	3	1	21.47	21.42	21.54
1.4	QPSK	3	3	21.29	21.28	21.14
1.4	QPSK	6	0	21.50	21.28	21.34
1.4	16QAM	1	0	22.63	22.53	22.27
1.4	16QAM	1	3	22.71	22.45	22.66
1.4	16QAM	1	5	22.70	22.43	22.72
1.4	16QAM	3	0	21.39	21.67	21.67
1.4	16QAM	3	1	21.19	21.61	21.57
1.4	16QAM	3	3	21.18	21.50	21.19
1.4	16QAM	6	0	21.18	21.57	21.45
1.4	64QAM	1	0	22.55	22.44	22.10
1.4	64QAM	1	3	22.63	22.36	22.60
1.4	64QAM	1	5	22.62	22.34	22.66
1.4	64QAM	3	0	21.31	21.58	21.59
1.4	64QAM	3	1	21.11	21.52	21.51
1.4	64QAM	3	3	21.20	21.41	21.13
1.4	64QAM	6	0	21.10	21.48	21.39



Effective Radiated Power and Effective Isotropic Radiated Power:

LTE Band 2				Measured E.I.R.P.					
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	22.01	0.159	21.50	0.141	21.75	0.150
20	QPSK	1	49	21.44	0.139	21.90	0.155	21.78	0.151
20	QPSK	1	99	21.32	0.136	22.03	0.160	21.00	0.126
20	QPSK	50	0	20.61	0.115	21.00	0.126	20.67	0.117
20	QPSK	50	24	20.37	0.109	20.78	0.120	20.64	0.116
20	QPSK	50	50	20.49	0.112	20.86	0.122	20.50	0.112
20	QPSK	100	0	20.53	0.113	20.86	0.122	20.54	0.113
20	16QAM	1	0	21.88	0.154	21.11	0.129	21.00	0.126
20	16QAM	1	49	21.11	0.129	21.57	0.144	20.72	0.118
20	16QAM	1	99	21.08	0.128	21.35	0.136	20.01	0.100
20	16QAM	50	0	19.65	0.092	19.81	0.096	19.79	0.095
20	16QAM	50	24	19.44	0.088	19.85	0.097	19.36	0.086
20	16QAM	50	50	19.47	0.089	19.89	0.097	19.66	0.092
20	16QAM	100	0	19.57	0.091	19.92	0.098	19.70	0.093
20	64QAM	1	0	21.85	0.153	20.87	0.122	20.86	0.122
20	64QAM	1	49	20.96	0.125	21.07	0.128	20.56	0.114
20	64QAM	1	99	20.67	0.117	20.97	0.125	20.10	0.102
20	64QAM	50	0	19.67	0.093	19.69	0.093	19.76	0.095
20	64QAM	50	24	19.47	0.089	19.76	0.095	19.31	0.085
20	64QAM	50	50	19.46	0.088	19.91	0.098	19.67	0.093
20	64QAM	100	0	19.56	0.090	19.84	0.096	19.71	0.094



LTE Band 2				Measured E.I.R.P.					
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	21.99	0.158	21.57	0.144	21.85	0.153
15	QPSK	1	37	21.59	0.144	22.00	0.158	21.95	0.157
15	QPSK	1	74	21.81	0.152	21.94	0.156	21.18	0.131
15	QPSK	36	0	20.55	0.114	20.48	0.112	20.65	0.116
15	QPSK	36	20	20.59	0.115	20.86	0.122	20.77	0.119
15	QPSK	36	39	20.52	0.113	21.04	0.127	20.53	0.113
15	QPSK	75	0	20.68	0.117	20.80	0.120	20.65	0.116
15	16QAM	1	0	21.98	0.158	20.65	0.116	20.87	0.122
15	16QAM	1	37	21.28	0.134	21.74	0.149	21.52	0.142
15	16QAM	1	74	20.63	0.116	21.18	0.131	20.35	0.108
15	16QAM	36	0	19.69	0.093	19.75	0.094	19.31	0.085
15	16QAM	36	20	19.58	0.091	19.91	0.098	19.53	0.090
15	16QAM	36	39	19.46	0.088	20.06	0.101	19.22	0.084
15	16QAM	75	0	19.78	0.095	19.82	0.096	19.34	0.086
15	64QAM	1	0	21.67	0.147	20.99	0.126	20.93	0.124
15	64QAM	1	37	20.55	0.114	21.11	0.129	21.47	0.140
15	64QAM	1	74	20.84	0.121	21.06	0.128	20.37	0.109
15	64QAM	36	0	19.60	0.091	19.67	0.093	19.27	0.085
15	64QAM	36	20	19.52	0.090	20.00	0.100	19.46	0.088
15	64QAM	36	39	19.50	0.089	19.95	0.099	19.17	0.083
15	64QAM	75	0	19.68	0.093	19.79	0.095	19.33	0.086



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18650		18900		19150	
Frequency (MHz)				1855		1880		1905	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	21.89	0.155	21.37	0.137	21.60	0.145
10	QPSK	1	25	21.98	0.158	21.98	0.158	21.42	0.139
10	QPSK	1	49	21.90	0.155	21.74	0.149	20.97	0.125
10	QPSK	25	0	20.56	0.114	20.60	0.115	20.77	0.119
10	QPSK	25	12	20.75	0.119	21.02	0.126	20.68	0.117
10	QPSK	25	25	20.59	0.115	20.96	0.125	20.24	0.106
10	QPSK	50	0	20.64	0.116	20.69	0.117	20.60	0.115
10	16QAM	1	0	21.67	0.147	21.12	0.129	20.85	0.122
10	16QAM	1	25	20.91	0.123	21.15	0.130	20.88	0.122
10	16QAM	1	49	21.03	0.127	21.46	0.140	20.18	0.104
10	16QAM	25	0	19.72	0.094	19.80	0.095	19.52	0.090
10	16QAM	25	12	19.72	0.094	20.12	0.103	19.52	0.090
10	16QAM	25	25	19.65	0.092	20.01	0.100	19.32	0.086
10	16QAM	50	0	19.65	0.092	19.79	0.095	19.33	0.086
10	64QAM	1	0	21.61	0.145	20.49	0.112	21.08	0.128
10	64QAM	1	25	20.89	0.123	21.28	0.134	20.84	0.121
10	64QAM	1	49	20.71	0.118	20.89	0.123	19.83	0.096
10	64QAM	25	0	19.71	0.094	19.70	0.093	19.58	0.091
10	64QAM	25	12	19.61	0.091	19.94	0.099	19.36	0.086
10	64QAM	25	25	19.63	0.092	19.94	0.099	19.09	0.081
10	64QAM	50	0	19.62	0.092	19.84	0.096	19.31	0.085



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18625		18900		19175	
Frequency (MHz)				1852.5		1880		1907.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	22.00	0.158	21.47	0.140	21.72	0.149
5	QPSK	1	12	21.41	0.138	21.87	0.154	21.75	0.150
5	QPSK	1	24	21.29	0.135	21.89	0.155	20.97	0.125
5	QPSK	12	0	20.58	0.114	20.52	0.113	20.64	0.116
5	QPSK	12	7	20.34	0.108	20.75	0.119	20.61	0.115
5	QPSK	12	13	20.46	0.111	20.83	0.121	20.47	0.111
5	QPSK	25	0	20.50	0.112	20.83	0.121	20.51	0.112
5	16QAM	1	0	21.85	0.153	21.08	0.128	20.97	0.125
5	16QAM	1	12	21.08	0.128	21.54	0.143	20.69	0.117
5	16QAM	1	24	21.05	0.127	21.32	0.136	19.98	0.100
5	16QAM	12	0	19.62	0.092	19.78	0.095	19.76	0.095
5	16QAM	12	7	19.41	0.087	19.82	0.096	19.33	0.086
5	16QAM	12	13	19.44	0.088	19.86	0.097	19.63	0.092
5	16QAM	25	0	19.54	0.090	19.89	0.097	19.67	0.093
5	64QAM	1	0	21.82	0.152	20.84	0.121	20.83	0.121
5	64QAM	1	12	20.93	0.124	21.04	0.127	20.53	0.113
5	64QAM	1	24	20.64	0.116	20.94	0.124	20.07	0.102
5	64QAM	12	0	19.64	0.092	19.66	0.092	19.73	0.094
5	64QAM	12	7	19.44	0.088	19.73	0.094	19.28	0.085
5	64QAM	12	13	19.43	0.088	19.88	0.097	19.64	0.092
5	64QAM	25	0	19.53	0.090	19.81	0.096	19.68	0.093



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18615		18900		19185	
Frequency (MHz)				1851.5		1880		1908.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	21.97	0.157	21.44	0.139	21.69	0.148
3	QPSK	1	8	21.38	0.137	21.84	0.153	21.72	0.149
3	QPSK	1	14	21.26	0.134	21.86	0.153	20.94	0.124
3	QPSK	8	0	20.55	0.114	20.49	0.112	20.61	0.115
3	QPSK	8	4	20.31	0.107	20.72	0.118	20.58	0.114
3	QPSK	8	7	20.43	0.110	20.80	0.120	20.44	0.111
3	QPSK	15	0	20.47	0.111	20.80	0.120	20.48	0.112
3	16QAM	1	0	21.82	0.152	21.05	0.127	20.94	0.124
3	16QAM	1	8	21.05	0.127	21.51	0.142	20.66	0.116
3	16QAM	1	14	21.02	0.126	21.29	0.135	19.95	0.099
3	16QAM	8	0	19.59	0.091	19.75	0.094	19.73	0.094
3	16QAM	8	4	19.38	0.087	19.79	0.095	19.30	0.085
3	16QAM	8	7	19.41	0.087	19.83	0.096	19.60	0.091
3	16QAM	15	0	19.51	0.089	19.86	0.097	19.64	0.092
3	64QAM	1	0	21.79	0.151	20.81	0.121	20.80	0.120
3	64QAM	1	8	20.90	0.123	21.01	0.126	20.50	0.112
3	64QAM	1	14	20.61	0.115	20.91	0.123	20.04	0.101
3	64QAM	8	0	19.61	0.091	19.63	0.092	19.70	0.093
3	64QAM	8	4	19.41	0.087	19.70	0.093	19.25	0.084
3	64QAM	8	7	19.40	0.087	19.85	0.097	19.61	0.091
3	64QAM	15	0	19.50	0.089	19.78	0.095	19.65	0.092



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18607		18900		19193	
Frequency (MHz)				1850.7		1880		1909.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	21.94	0.156	21.41	0.138	21.66	0.147
1.4	QPSK	1	3	21.35	0.136	21.81	0.152	21.69	0.148
1.4	QPSK	1	5	21.23	0.133	21.83	0.152	20.91	0.123
1.4	QPSK	3	0	20.52	0.113	20.46	0.111	20.58	0.114
1.4	QPSK	3	1	20.28	0.107	20.69	0.117	20.55	0.114
1.4	QPSK	3	3	20.40	0.110	20.77	0.119	20.41	0.110
1.4	QPSK	6	0	20.44	0.111	20.77	0.119	20.45	0.111
1.4	16QAM	1	0	21.79	0.151	21.02	0.126	20.91	0.123
1.4	16QAM	1	3	21.02	0.126	21.48	0.141	20.63	0.116
1.4	16QAM	1	5	20.99	0.126	21.26	0.134	19.92	0.098
1.4	16QAM	3	0	19.56	0.090	19.72	0.094	19.70	0.093
1.4	16QAM	3	1	19.35	0.086	19.76	0.095	19.27	0.085
1.4	16QAM	3	3	19.38	0.087	19.80	0.095	19.57	0.091
1.4	16QAM	6	0	19.48	0.089	19.83	0.096	19.61	0.091
1.4	64QAM	1	0	21.76	0.150	20.78	0.120	20.77	0.119
1.4	64QAM	1	3	20.87	0.122	20.98	0.125	20.47	0.111
1.4	64QAM	1	5	20.58	0.114	20.88	0.122	20.01	0.100
1.4	64QAM	3	0	19.58	0.091	19.60	0.091	19.67	0.093
1.4	64QAM	3	1	19.38	0.087	19.67	0.093	19.22	0.084
1.4	64QAM	3	3	19.37	0.086	19.82	0.096	19.58	0.091
1.4	64QAM	6	0	19.47	0.089	19.75	0.094	19.62	0.092



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20050		20175		20300	
Frequency (MHz)				1720		1732.5		1745	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	23.66	0.232	23.99	0.251	23.59	0.229
20	QPSK	1	49	23.91	0.246	23.19	0.208	23.74	0.237
20	QPSK	1	99	23.28	0.213	23.71	0.235	23.85	0.243
20	QPSK	50	0	23.05	0.202	23.12	0.205	23.23	0.210
20	QPSK	50	24	23.03	0.201	22.96	0.198	23.15	0.207
20	QPSK	50	50	22.95	0.197	23.16	0.207	23.14	0.206
20	QPSK	100	0	23.02	0.200	23.15	0.207	23.22	0.210
20	16QAM	1	0	23.24	0.211	23.34	0.216	23.78	0.239
20	16QAM	1	49	23.41	0.219	22.57	0.181	23.37	0.217
20	16QAM	1	99	22.61	0.182	23.38	0.218	22.78	0.190
20	16QAM	50	0	22.20	0.166	21.83	0.152	21.93	0.156
20	16QAM	50	24	22.14	0.164	21.42	0.139	21.97	0.157
20	16QAM	50	50	21.95	0.157	21.66	0.147	21.69	0.148
20	16QAM	100	0	22.05	0.160	21.66	0.147	21.88	0.154
20	64QAM	1	0	23.32	0.215	23.15	0.207	22.75	0.188
20	64QAM	1	49	23.19	0.208	22.53	0.179	22.48	0.177
20	64QAM	1	99	22.51	0.178	23.19	0.208	22.62	0.183
20	64QAM	50	0	22.16	0.164	21.88	0.154	21.82	0.152
20	64QAM	50	24	22.17	0.165	21.36	0.137	21.87	0.154
20	64QAM	50	50	21.98	0.158	21.67	0.147	21.63	0.146
20	64QAM	100	0	22.07	0.161	21.59	0.144	21.82	0.152



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20025		20175		20325	
Frequency (MHz)				1717.5		1732.5		1747.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	23.63	0.231	23.96	0.249	23.56	0.227
15	QPSK	1	37	23.88	0.244	23.16	0.207	23.71	0.235
15	QPSK	1	74	23.25	0.211	23.68	0.233	23.82	0.241
15	QPSK	36	0	23.02	0.200	23.09	0.204	23.20	0.209
15	QPSK	36	20	23.00	0.200	22.93	0.196	23.12	0.205
15	QPSK	36	39	22.92	0.196	23.13	0.206	23.11	0.205
15	QPSK	75	0	22.99	0.199	23.12	0.205	23.19	0.208
15	16QAM	1	0	23.21	0.209	23.31	0.214	23.75	0.237
15	16QAM	1	37	23.38	0.218	22.54	0.179	23.34	0.216
15	16QAM	1	74	22.58	0.181	23.35	0.216	22.75	0.188
15	16QAM	36	0	22.17	0.165	21.80	0.151	21.90	0.155
15	16QAM	36	20	22.11	0.163	21.39	0.138	21.94	0.156
15	16QAM	36	39	21.92	0.156	21.63	0.146	21.66	0.147
15	16QAM	75	0	22.02	0.159	21.63	0.146	21.85	0.153
15	64QAM	1	0	23.29	0.213	23.12	0.205	22.72	0.187
15	64QAM	1	37	23.16	0.207	22.50	0.178	22.45	0.176
15	64QAM	1	74	22.48	0.177	23.16	0.207	22.59	0.182
15	64QAM	36	0	22.13	0.163	21.85	0.153	21.79	0.151
15	64QAM	36	20	22.14	0.164	21.33	0.136	21.84	0.153
15	64QAM	36	39	21.95	0.157	21.64	0.146	21.60	0.145
15	64QAM	75	0	22.04	0.160	21.56	0.143	21.79	0.151



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20000		20175		20350	
Frequency (MHz)				1715		1732.5		1750	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	23.61	0.230	23.94	0.248	23.54	0.226
10	QPSK	1	25	23.86	0.243	23.14	0.206	23.69	0.234
10	QPSK	1	49	23.23	0.210	23.66	0.232	23.80	0.240
10	QPSK	25	0	23.00	0.200	23.07	0.203	23.18	0.208
10	QPSK	25	12	22.98	0.199	22.91	0.195	23.10	0.204
10	QPSK	25	25	22.90	0.195	23.11	0.205	23.09	0.204
10	QPSK	50	0	22.97	0.198	23.10	0.204	23.17	0.207
10	16QAM	1	0	23.19	0.208	23.29	0.213	23.73	0.236
10	16QAM	1	25	23.36	0.217	22.52	0.179	23.32	0.215
10	16QAM	1	49	22.56	0.180	23.33	0.215	22.73	0.187
10	16QAM	25	0	22.15	0.164	21.78	0.151	21.88	0.154
10	16QAM	25	12	22.09	0.162	21.37	0.137	21.92	0.156
10	16QAM	25	25	21.90	0.155	21.61	0.145	21.64	0.146
10	16QAM	50	0	22.00	0.158	21.61	0.145	21.83	0.152
10	64QAM	1	0	23.27	0.212	23.10	0.204	22.70	0.186
10	64QAM	1	25	23.14	0.206	22.48	0.177	22.43	0.175
10	64QAM	1	49	22.46	0.176	23.14	0.206	22.57	0.181
10	64QAM	25	0	22.11	0.163	21.83	0.152	21.77	0.150
10	64QAM	25	12	22.12	0.163	21.31	0.135	21.82	0.152
10	64QAM	25	25	21.93	0.156	21.62	0.145	21.58	0.144
10	64QAM	50	0	22.02	0.159	21.54	0.143	21.77	0.150



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19975		20175		20375	
Frequency (MHz)				1712.5		1732.5		1752.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	23.60	0.229	23.93	0.247	23.53	0.225
5	QPSK	1	12	23.85	0.243	23.13	0.206	23.68	0.233
5	QPSK	1	24	23.22	0.210	23.65	0.232	23.79	0.239
5	QPSK	12	0	22.99	0.199	23.06	0.202	23.17	0.207
5	QPSK	12	7	22.97	0.198	22.90	0.195	23.09	0.204
5	QPSK	12	13	22.89	0.195	23.10	0.204	23.08	0.203
5	QPSK	25	0	22.96	0.198	23.09	0.204	23.16	0.207
5	16QAM	1	0	23.18	0.208	23.28	0.213	23.72	0.236
5	16QAM	1	12	23.35	0.216	22.51	0.178	23.31	0.214
5	16QAM	1	24	22.55	0.180	23.32	0.215	22.72	0.187
5	16QAM	12	0	22.14	0.164	21.77	0.150	21.87	0.154
5	16QAM	12	7	22.08	0.161	21.36	0.137	21.91	0.155
5	16QAM	12	13	21.89	0.155	21.60	0.145	21.63	0.146
5	16QAM	25	0	21.99	0.158	21.60	0.145	21.82	0.152
5	64QAM	1	0	23.26	0.212	23.09	0.204	22.69	0.186
5	64QAM	1	12	23.13	0.206	22.47	0.177	22.42	0.175
5	64QAM	1	24	22.45	0.176	23.13	0.206	22.56	0.180
5	64QAM	12	0	22.10	0.162	21.82	0.152	21.76	0.150
5	64QAM	12	7	22.11	0.163	21.30	0.135	21.81	0.152
5	64QAM	12	13	21.92	0.156	21.61	0.145	21.57	0.144
5	64QAM	25	0	22.01	0.159	21.53	0.142	21.76	0.150



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19965		20175		20385	
Frequency (MHz)				1711.5		1732.5		1753.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	23.58	0.228	23.91	0.246	23.51	0.224
3	QPSK	1	8	23.83	0.242	23.11	0.205	23.66	0.232
3	QPSK	1	14	23.20	0.209	23.63	0.231	23.77	0.238
3	QPSK	8	0	22.97	0.198	23.04	0.201	23.15	0.207
3	QPSK	8	4	22.95	0.197	22.88	0.194	23.07	0.203
3	QPSK	8	7	22.87	0.194	23.08	0.203	23.06	0.202
3	QPSK	15	0	22.94	0.197	23.07	0.203	23.14	0.206
3	16QAM	1	0	23.16	0.207	23.26	0.212	23.70	0.234
3	16QAM	1	8	23.33	0.215	22.49	0.177	23.29	0.213
3	16QAM	1	14	22.53	0.179	23.30	0.214	22.70	0.186
3	16QAM	8	0	22.12	0.163	21.75	0.150	21.85	0.153
3	16QAM	8	4	22.06	0.161	21.34	0.136	21.89	0.155
3	16QAM	8	7	21.87	0.154	21.58	0.144	21.61	0.145
3	16QAM	15	0	21.97	0.157	21.58	0.144	21.80	0.151
3	64QAM	1	0	23.24	0.211	23.07	0.203	22.67	0.185
3	64QAM	1	8	23.11	0.205	22.45	0.176	22.40	0.174
3	64QAM	1	14	22.43	0.175	23.11	0.205	22.54	0.179
3	64QAM	8	0	22.08	0.161	21.80	0.151	21.74	0.149
3	64QAM	8	4	22.09	0.162	21.28	0.134	21.79	0.151
3	64QAM	8	7	21.90	0.155	21.59	0.144	21.55	0.143
3	64QAM	15	0	21.99	0.158	21.51	0.142	21.74	0.149



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19957		20175		20393	
Frequency (MHz)				1710.7		1732.5		1754.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	23.56	0.227	23.89	0.245	23.49	0.223
1.4	QPSK	1	3	23.81	0.240	23.09	0.204	23.64	0.231
1.4	QPSK	1	5	23.18	0.208	23.61	0.230	23.75	0.237
1.4	QPSK	3	0	22.95	0.197	23.02	0.200	23.13	0.206
1.4	QPSK	3	1	22.93	0.196	22.86	0.193	23.05	0.202
1.4	QPSK	3	3	22.85	0.193	23.06	0.202	23.04	0.201
1.4	QPSK	6	0	22.92	0.196	23.05	0.202	23.12	0.205
1.4	16QAM	1	0	23.14	0.206	23.24	0.211	23.68	0.233
1.4	16QAM	1	3	23.31	0.214	22.47	0.177	23.27	0.212
1.4	16QAM	1	5	22.51	0.178	23.28	0.213	22.68	0.185
1.4	16QAM	3	0	22.10	0.162	21.73	0.149	21.83	0.152
1.4	16QAM	3	1	22.04	0.160	21.32	0.136	21.87	0.154
1.4	16QAM	3	3	21.85	0.153	21.56	0.143	21.59	0.144
1.4	16QAM	6	0	21.95	0.157	21.56	0.143	21.78	0.151
1.4	64QAM	1	0	23.22	0.210	23.05	0.202	22.65	0.184
1.4	64QAM	1	3	23.09	0.204	22.43	0.175	22.38	0.173
1.4	64QAM	1	5	22.41	0.174	23.09	0.204	22.52	0.179
1.4	64QAM	3	0	22.06	0.161	21.78	0.151	21.72	0.149
1.4	64QAM	3	1	22.07	0.161	21.26	0.134	21.77	0.150
1.4	64QAM	3	3	21.88	0.154	21.57	0.144	21.53	0.142
1.4	64QAM	6	0	21.97	0.157	21.49	0.141	21.72	0.149



LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20450		20525		20600	
Frequency (MHz)				829		836.5		844	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	19.10	0.081	18.95	0.079	19.03	0.080
10	QPSK	1	25	19.17	0.083	19.18	0.083	18.92	0.078
10	QPSK	1	49	18.97	0.079	19.17	0.083	19.02	0.080
10	QPSK	25	0	18.38	0.069	17.96	0.063	18.24	0.067
10	QPSK	25	12	18.21	0.066	17.96	0.063	18.09	0.064
10	QPSK	25	25	18.12	0.065	18.05	0.064	18.30	0.068
10	QPSK	50	0	18.24	0.067	18.05	0.064	18.19	0.066
10	16QAM	1	0	18.49	0.071	18.43	0.070	18.37	0.069
10	16QAM	1	25	18.09	0.064	18.19	0.066	18.46	0.070
10	16QAM	1	49	18.54	0.071	18.29	0.067	18.67	0.074
10	16QAM	25	0	17.42	0.055	17.12	0.052	17.09	0.051
10	16QAM	25	12	17.26	0.053	17.11	0.051	17.12	0.052
10	16QAM	25	25	17.15	0.052	17.07	0.051	17.18	0.052
10	16QAM	50	0	17.23	0.053	17.17	0.052	17.25	0.053
10	64QAM	1	0	18.29	0.067	18.07	0.064	18.24	0.067
10	64QAM	1	25	18.28	0.067	17.84	0.061	17.83	0.061
10	64QAM	1	49	18.15	0.065	18.01	0.063	18.24	0.067
10	64QAM	25	0	17.24	0.053	16.98	0.050	17.09	0.051
10	64QAM	25	12	17.32	0.054	17.07	0.051	17.25	0.053
10	64QAM	25	25	17.17	0.052	17.00	0.050	17.16	0.052
10	64QAM	50	0	17.16	0.052	17.15	0.052	17.15	0.052



LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20425		20525		20625	
Frequency (MHz)				826.5		836.5		846.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	19.25	0.084	18.91	0.078	19.00	0.079
5	QPSK	1	12	19.12	0.082	18.94	0.078	18.89	0.077
5	QPSK	1	24	18.92	0.078	19.13	0.082	18.99	0.079
5	QPSK	12	0	18.33	0.068	17.92	0.062	18.21	0.066
5	QPSK	12	7	18.36	0.069	17.97	0.063	18.06	0.064
5	QPSK	12	13	18.07	0.064	18.01	0.063	18.27	0.067
5	QPSK	25	0	18.19	0.066	18.01	0.063	18.16	0.065
5	16QAM	1	0	18.44	0.070	18.39	0.069	18.34	0.068
5	16QAM	1	12	18.04	0.064	18.15	0.065	18.43	0.070
5	16QAM	1	24	18.49	0.071	18.25	0.067	18.64	0.073
5	16QAM	12	0	17.37	0.055	17.08	0.051	17.06	0.051
5	16QAM	12	7	17.21	0.053	17.07	0.051	17.09	0.051
5	16QAM	12	13	17.10	0.051	17.03	0.050	17.15	0.052
5	16QAM	25	0	17.18	0.052	17.13	0.052	17.22	0.053
5	64QAM	1	0	18.24	0.067	18.03	0.064	18.21	0.066
5	64QAM	1	12	18.23	0.067	17.80	0.060	17.80	0.060
5	64QAM	1	24	18.10	0.065	17.97	0.063	18.21	0.066
5	64QAM	12	0	17.19	0.052	16.94	0.049	17.06	0.051
5	64QAM	12	7	17.27	0.053	17.03	0.050	17.22	0.053
5	64QAM	12	13	17.12	0.052	16.96	0.050	17.13	0.052
5	64QAM	25	0	17.11	0.051	17.11	0.051	17.12	0.052



LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20415		20525		20635	
Frequency (MHz)				825.5		836.5		847.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	17.70	0.059	19.34	0.086	19.27	0.085
3	QPSK	1	8	19.26	0.084	19.40	0.087	19.39	0.087
3	QPSK	1	14	19.49	0.089	19.38	0.087	17.57	0.057
3	QPSK	8	0	18.72	0.074	18.75	0.075	18.76	0.075
3	QPSK	8	4	18.45	0.070	18.44	0.070	18.49	0.071
3	QPSK	8	7	18.38	0.069	18.41	0.069	18.42	0.070
3	QPSK	15	0	18.50	0.071	18.44	0.070	18.53	0.071
3	16QAM	1	0	16.73	0.047	18.55	0.072	18.64	0.073
3	16QAM	1	8	18.76	0.075	19.05	0.080	18.69	0.074
3	16QAM	1	14	19.16	0.082	18.74	0.075	17.18	0.052
3	16QAM	8	0	17.82	0.061	17.81	0.060	17.85	0.061
3	16QAM	8	4	17.42	0.055	17.45	0.056	17.49	0.056
3	16QAM	8	7	17.40	0.055	17.33	0.054	17.34	0.054
3	16QAM	15	0	17.40	0.055	17.47	0.056	17.49	0.056
3	64QAM	1	0	17.27	0.053	18.35	0.068	18.56	0.072
3	64QAM	1	8	18.95	0.079	18.63	0.073	18.88	0.077
3	64QAM	1	14	18.42	0.070	18.62	0.073	16.52	0.045
3	64QAM	8	0	17.76	0.060	17.73	0.059	17.66	0.058
3	64QAM	8	4	17.36	0.054	17.52	0.056	17.47	0.056
3	64QAM	8	7	17.31	0.054	17.48	0.056	17.37	0.055
3	64QAM	15	0	17.60	0.058	17.57	0.057	17.39	0.055



LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20407		20525		20643	
Frequency (MHz)				824.7		836.5		848.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	20.00	0.100	19.49	0.089	19.44	0.088
1.4	QPSK	1	3	19.96	0.099	19.77	0.095	19.76	0.095
1.4	QPSK	1	5	19.54	0.090	19.24	0.084	19.88	0.097
1.4	QPSK	3	0	19.67	0.093	19.68	0.093	19.36	0.086
1.4	QPSK	3	1	19.87	0.097	19.65	0.092	19.62	0.092
1.4	QPSK	3	3	19.59	0.091	19.37	0.086	19.43	0.088
1.4	QPSK	6	0	18.70	0.074	18.58	0.072	18.65	0.073
1.4	16QAM	1	0	19.26	0.084	18.60	0.072	18.51	0.071
1.4	16QAM	1	3	19.55	0.090	19.38	0.087	18.83	0.076
1.4	16QAM	1	5	18.85	0.077	18.93	0.078	19.01	0.080
1.4	16QAM	3	0	18.60	0.072	18.71	0.074	18.41	0.069
1.4	16QAM	3	1	18.84	0.077	18.69	0.074	18.69	0.074
1.4	16QAM	3	3	18.68	0.074	18.53	0.071	18.51	0.071
1.4	16QAM	6	0	17.86	0.061	17.67	0.058	17.74	0.059
1.4	64QAM	1	0	19.26	0.084	18.66	0.073	18.40	0.069
1.4	64QAM	1	3	19.46	0.088	18.64	0.073	18.94	0.078
1.4	64QAM	1	5	18.79	0.076	18.60	0.072	19.13	0.082
1.4	64QAM	3	0	18.77	0.075	18.72	0.074	18.54	0.071
1.4	64QAM	3	1	18.83	0.076	18.69	0.074	18.58	0.072
1.4	64QAM	3	3	18.98	0.079	18.62	0.073	18.61	0.073
1.4	64QAM	6	0	17.77	0.060	17.61	0.058	17.63	0.058



LTE Band 13				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				/		23230		/	
Frequency (MHz)				/		782		/	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	/	/	19.00	0.079	/	/
10	QPSK	1	25	/	/	18.78	0.076	/	/
10	QPSK	1	49	/	/	19.51	0.089	/	/
10	QPSK	25	0	/	/	18.25	0.067	/	/
10	QPSK	25	12	/	/	18.10	0.065	/	/
10	QPSK	25	25	/	/	18.11	0.065	/	/
10	QPSK	50	0	/	/	18.25	0.067	/	/
10	16QAM	1	0	/	/	18.16	0.065	/	/
10	16QAM	1	25	/	/	18.60	0.072	/	/
10	16QAM	1	49	/	/	18.78	0.076	/	/
10	16QAM	25	0	/	/	17.32	0.054	/	/
10	16QAM	25	12	/	/	17.10	0.051	/	/
10	16QAM	25	25	/	/	17.25	0.053	/	/
10	16QAM	50	0	/	/	17.35	0.054	/	/
10	64QAM	1	0	/	/	18.07	0.064	/	/
10	64QAM	1	25	/	/	18.07	0.064	/	/
10	64QAM	1	49	/	/	19.00	0.079	/	/
10	64QAM	25	0	/	/	17.35	0.054	/	/
10	64QAM	25	12	/	/	17.20	0.052	/	/
10	64QAM	25	25	/	/	17.21	0.053	/	/
10	64QAM	50	0	/	/	17.37	0.055	/	/



LTE Band 13				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23205		23230		23255	
Frequency (MHz)				779.5		782		784.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	18.65	0.073	19.00	0.079	18.45	0.070
5	QPSK	1	12	18.89	0.077	18.75	0.075	18.90	0.078
5	QPSK	1	24	18.48	0.070	18.54	0.071	19.30	0.085
5	QPSK	12	0	19.47	0.089	19.38	0.087	19.16	0.082
5	QPSK	12	7	19.01	0.080	18.88	0.077	18.79	0.076
5	QPSK	12	13	18.92	0.078	18.74	0.075	19.09	0.081
5	QPSK	25	0	17.84	0.061	17.81	0.060	18.16	0.065
5	16QAM	1	0	17.81	0.060	18.22	0.066	17.61	0.058
5	16QAM	1	12	18.25	0.067	18.41	0.069	18.53	0.071
5	16QAM	1	24	18.31	0.068	17.80	0.060	18.49	0.071
5	16QAM	12	0	18.67	0.074	18.59	0.072	18.17	0.066
5	16QAM	12	7	18.17	0.066	17.97	0.063	18.10	0.065
5	16QAM	12	13	18.10	0.065	17.91	0.062	18.23	0.067
5	16QAM	25	0	17.02	0.050	16.79	0.048	17.31	0.054
5	64QAM	1	0	18.00	0.063	18.44	0.070	17.68	0.059
5	64QAM	1	12	18.15	0.065	18.09	0.064	18.23	0.067
5	64QAM	1	24	17.82	0.061	17.86	0.061	18.39	0.069
5	64QAM	12	0	18.68	0.074	18.61	0.073	18.20	0.066
5	64QAM	12	7	18.24	0.067	17.97	0.063	18.03	0.064
5	64QAM	12	13	18.25	0.067	17.94	0.062	18.16	0.065
5	64QAM	25	0	17.06	0.051	16.86	0.049	17.20	0.052