



TEST REPORT

APPLICANT : BLU Products, Inc.

PRODUCT NAME : Smart Phone

MODEL NAME : G33, C7 MAX

BRAND NAME : BLU

FCC ID : YHLBLUG33TT

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

RECEIPT DATE : 2023-12-06

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Change History		
Version	Date	Reason for change
1.0	2024-02-02	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	BLU Products, Inc.
Applicant Address:	8600 NW 36th Street, Suite #300 Miami, FL 33166, USA
Manufacturer:	BLU Products, Inc.
Manufacturer Address:	8600 NW 36th Street, Suite #300 Miami, FL 33166, USA

1.2. Equipment Under Test (EUT) Description

Product Name:	Smart Phone	
Sample No.:	3#	
Hardware Version:	A507-MB-V2.9A	
Software Version:	BLU_G0894_V13.0.G.05.00_TIGO 31-10-2023	
Modulation Type:	QPSK, 16QAM, 64QAM	
Carrier Aggregation:	Not support	
Operation Band:	Band 2 / 4 / 5 / 7 / 38	
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 7	Tx: 2500MHz–2570MHz
		Rx: 2620MHz–2690MHz
	LTE Band 38	Tx: 2570MHz–2620MHz
		Rx: 2570MHz–2620MHz
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 7	5 MHz, 10MHz, 15MHz, 20MHz
	LTE Band 38	5 MHz, 10MHz, 15MHz, 20MHz
Antenna Type:	PIFA Antenna	



Antenna Gain	LTE Band 2	-1.24dBi
	LTE Band 4	-1.19dBi
	LTE Band 5	-1.62dBi
	LTE Band 7	-1.67dBi
	LTE Band 38	-1.66dBi
Accessory Information:	Battery	
	Brand Name:	BLU
	Model No.:	C876540300L
	Serial No.:	N/A
	Capacity:	3000mAh
	Rated Voltage:	3.8V
	Charge Limit:	4.35V
	Manufacturer:	PHENIX NEW ENERGY(HUIZHOU)CO.,LTD.
	AC Adapter	
	Brand Name:	BLU
	Model No.:	US-TY-1000
	Serial No.:	N/A
	Rated Output:	5V=1000mA
	Rated Input:	100-240V~50/60Hz, 0.3A
	Manufacturer:	SHENZHEN TIANYIN ELECTRONICS CO., LTD.

Note 1: According to the certificate holder, they declared that the models G33, C7 MAX only the model names are different for trading purpose, everything else is the same. The main measuring model is G33, only the results for G33 were recorded in this report.

Note 2: SIM 1 and SIM 2 is a chipset unit and tested as a single chipset. The SIM 1 is chosen for test.

Note 3: 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	0.142	0.114	0.112	18M0G7D	18M0W7D	18M0W7D
15	0.141	0.114	0.113	13M5G7D	13M5W7D	13M5W7D
10	0.140	0.116	0.114	9M03G7D	8M98W7D	8M99W7D
5	0.141	0.115	0.112	4M50G7D	4M50W7D	4M50W7D
3	0.141	0.114	0.112	2M72G7D	2M71W7D	2M73W7D
1.4	0.140	0.115	0.114	1M10G7D	1M10W7D	1M10W7D
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	0.137	0.109	0.105	18M0G7D	18M0W7D	18M0W7D
15	0.136	0.110	0.108	13M5G7D	13M5W7D	13M5W7D
10	0.135	0.108	0.107	9M03G7D	8M98W7D	9M01W7D
5	0.136	0.109	0.108	4M50G7D	4M51W7D	4M50W7D
3	0.135	0.110	0.109	2M72G7D	2M72W7D	2M72W7D
1.4	0.135	0.110	0.109	1M10G7D	1M10W7D	1M10W7D
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	0.092	0.073	0.073	9M01G7D	8M99W7D	9M01W7D
5	0.092	0.073	0.071	4M50G7D	4M50W7D	4M50W7D
3	0.091	0.072	0.073	2M72G7D	2M72W7D	2M72W7D
1.4	0.092	0.073	0.074	1M10G7D	1M10W7D	1M10W7D
LTE Band 7	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	0.124	0.100	0.098	18M0G7D	18M0W7D	18M0W7D
15	0.123	0.101	0.098	13M5G7D	13M5W7D	13M5W7D
10	0.123	0.101	0.100	9M02G7D	8M98W7D	9M00W7D
5	0.122	0.101	0.098	4M50G7D	4M50W7D	4M50W7D
LTE Band 38	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	0.146	0.118	0.115	18M0G7D	18M0W7D	18M0W7D
15	0.144	0.118	0.117	13M5G7D	13M5W7D	13M5W7D
10	0.145	0.115	0.116	9M00G7D	8M97W7D	9M00W7D
5	0.144	0.117	0.114	4M50G7D	4M51W7D	4M49W7D



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(d)(4) 27.50(h)(2)	Transmitter Conducted Output Power and E.R.P./E.I.R.P.	Jan. 19, 2024	Shen Biaohong Gan Jing	PASS	No deviation
2.1049	Occupied Bandwidth	Dec. 21, 2023	Gan Jing	PASS	No deviation
2.1055 22.355 24.235 27.54	Frequency Stability	Dec. 29, 2023	Gan Jing	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Dec. 21, 2023	Gan Jing	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(h) 27.53(m)(4)	Conducted Spurious Emissions	Dec. 21, 2023	Gan Jing	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(h) 27.53(m)(4)	Band Edge	Dec. 21, 2023	Gan Jing	PASS	No deviation
2.1053	Radiated	Dec. 08, 2023	Li Hanbin	PASS	No deviation



22.917(a) 24.238(a) 27.53(h) 27.53(m)(4)	Spurious Emissions				
<p>Note 1: The tests were performed according to the method of measurements prescribed in KDB 971168 D01 v03 and ANSI/TIA-603-E-2016.</p> <p>Note 2: 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.</p> <p>Note 3: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.</p>					

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 27 L&M 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).

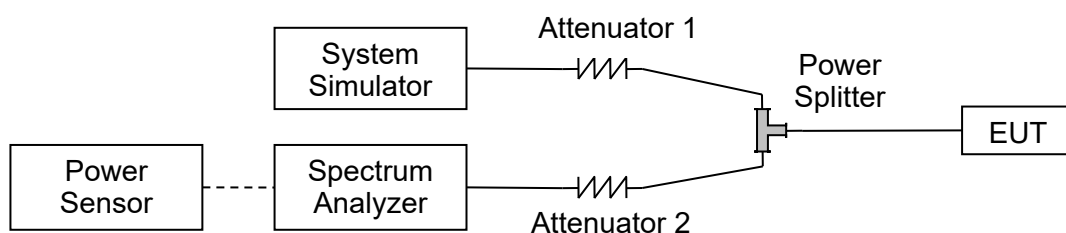
According to FCC section 24.232 (c) for LTE Band 2, Mobile and portable stations are limited to 2 watts E.I.R.P. and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

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, Mobile and other user stations. Mobile stations are limited to 2 watts E.I.R.P. All user stations are limited to 2 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 50Ohm; 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	22.71	22.76	22.74
20	QPSK	1	49	22.60	22.68	22.67
20	QPSK	1	99	22.55	22.59	22.63
20	QPSK	50	0	21.63	21.69	21.68
20	QPSK	50	24	21.58	21.61	21.64
20	QPSK	50	50	21.50	21.57	21.55
20	QPSK	100	0	21.54	21.65	21.60
20	16QAM	1	0	21.69	21.80	21.77
20	16QAM	1	49	21.66	21.74	21.71
20	16QAM	1	99	21.57	21.60	21.63
20	16QAM	50	0	20.65	20.75	20.70
20	16QAM	50	24	20.53	20.66	20.58
20	16QAM	50	50	20.49	20.60	20.52
20	16QAM	100	0	20.56	20.57	20.61
20	64QAM	1	0	21.59	21.73	21.70
20	64QAM	1	49	21.60	21.67	21.69
20	64QAM	1	99	21.54	21.62	21.65
20	64QAM	50	0	20.57	20.69	20.65
20	64QAM	50	24	20.55	20.63	20.66
20	64QAM	50	50	20.54	20.58	20.61
20	64QAM	100	0	20.59	20.64	20.60



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	22.67	22.74	22.60
15	QPSK	1	37	22.48	22.61	22.54
15	QPSK	1	74	22.52	22.50	22.63
15	QPSK	36	0	21.65	21.72	21.68
15	QPSK	36	20	21.47	21.68	21.68
15	QPSK	36	39	21.48	21.45	21.55
15	QPSK	75	0	21.50	21.50	21.46
15	16QAM	1	0	21.66	21.68	21.69
15	16QAM	1	37	21.51	21.82	21.76
15	16QAM	1	74	21.48	21.49	21.63
15	16QAM	36	0	20.55	20.63	20.70
15	16QAM	36	20	20.41	20.72	20.55
15	16QAM	36	39	20.47	20.53	20.60
15	16QAM	75	0	20.41	20.45	20.46
15	64QAM	1	0	21.60	21.71	21.77
15	64QAM	1	37	21.51	21.75	21.77
15	64QAM	1	74	21.44	21.47	21.62
15	64QAM	36	0	20.47	20.54	20.54
15	64QAM	36	20	20.45	20.59	20.52
15	64QAM	36	39	20.57	20.58	20.51
15	64QAM	75	0	20.46	20.64	20.48



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	22.66	22.71	22.68
10	QPSK	1	25	22.54	22.66	22.68
10	QPSK	1	49	22.59	22.52	22.60
10	QPSK	25	0	21.56	21.78	21.77
10	QPSK	25	12	21.56	21.65	21.67
10	QPSK	25	25	21.48	21.51	21.47
10	QPSK	50	0	21.59	21.81	21.60
10	16QAM	1	0	21.57	21.88	21.83
10	16QAM	1	25	21.65	21.82	21.76
10	16QAM	1	49	21.57	21.55	21.70
10	16QAM	25	0	20.66	20.72	20.69
10	16QAM	25	12	20.58	20.73	20.46
10	16QAM	25	25	20.46	20.45	20.56
10	16QAM	50	0	20.57	20.62	20.47
10	64QAM	1	0	21.49	21.79	21.58
10	64QAM	1	25	21.65	21.54	21.55
10	64QAM	1	49	21.46	21.56	21.58
10	64QAM	25	0	20.56	20.78	20.60
10	64QAM	25	12	20.58	20.54	20.57
10	64QAM	25	25	20.47	20.58	20.58
10	64QAM	50	0	20.59	20.69	20.54



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	22.59	22.73	22.63
5	QPSK	1	12	22.61	22.61	22.69
5	QPSK	1	24	22.63	22.63	22.55
5	QPSK	12	0	21.58	21.61	21.77
5	QPSK	12	7	21.58	21.65	21.65
5	QPSK	12	13	21.51	21.44	21.63
5	QPSK	25	0	21.47	21.51	21.47
5	16QAM	1	0	21.68	21.83	21.63
5	16QAM	1	12	21.57	21.82	21.77
5	16QAM	1	24	21.52	21.47	21.64
5	16QAM	12	0	20.56	20.79	20.65
5	16QAM	12	7	20.51	20.72	20.65
5	16QAM	12	13	20.45	20.49	20.52
5	16QAM	25	0	20.61	20.47	20.57
5	64QAM	1	0	21.64	21.75	21.58
5	64QAM	1	12	21.54	21.65	21.61
5	64QAM	1	24	21.64	21.66	21.58
5	64QAM	12	0	20.44	20.54	20.52
5	64QAM	12	7	20.44	20.68	20.57
5	64QAM	12	13	20.51	20.57	20.66
5	64QAM	25	0	20.44	20.66	20.61



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	22.61	22.72	22.70
3	QPSK	1	8	22.60	22.65	22.63
3	QPSK	1	14	22.49	22.62	22.67
3	QPSK	8	0	21.57	21.62	21.68
3	QPSK	8	4	21.58	21.63	21.74
3	QPSK	8	7	21.39	21.58	21.43
3	QPSK	15	0	21.51	21.73	21.57
3	16QAM	1	0	21.79	21.68	21.62
3	16QAM	1	8	21.59	21.75	21.70
3	16QAM	1	14	21.65	21.50	21.66
3	16QAM	8	0	20.51	20.77	20.75
3	16QAM	8	4	20.47	20.58	20.67
3	16QAM	8	7	20.39	20.51	20.56
3	16QAM	15	0	20.65	20.45	20.49
3	64QAM	1	0	21.51	21.72	21.71
3	64QAM	1	8	21.50	21.52	21.56
3	64QAM	1	14	21.50	21.53	21.65
3	64QAM	8	0	20.48	20.74	20.57
3	64QAM	8	4	20.42	20.53	20.52
3	64QAM	8	7	20.61	20.67	20.58
3	64QAM	15	0	20.51	20.69	20.53



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	22.66	22.70	22.67
1.4	QPSK	1	3	22.56	22.63	22.59
1.4	QPSK	1	5	22.48	22.56	22.52
1.4	QPSK	3	0	21.52	21.76	21.75
1.4	QPSK	3	1	21.56	21.60	21.57
1.4	QPSK	3	3	21.52	21.54	21.50
1.4	QPSK	6	0	21.48	21.51	21.58
1.4	16QAM	1	0	21.70	21.84	21.77
1.4	16QAM	1	3	21.65	21.76	21.58
1.4	16QAM	1	5	21.62	21.49	21.48
1.4	16QAM	3	0	20.68	20.78	20.63
1.4	16QAM	3	1	20.50	20.65	20.58
1.4	16QAM	3	3	20.52	20.56	20.54
1.4	16QAM	6	0	20.54	20.51	20.64
1.4	64QAM	1	0	21.53	21.79	21.64
1.4	64QAM	1	3	21.64	21.64	21.75
1.4	64QAM	1	5	21.44	21.48	21.66
1.4	64QAM	3	0	20.53	20.57	20.67
1.4	64QAM	3	1	20.51	20.55	20.75
1.4	64QAM	3	3	20.55	20.67	20.52
1.4	64QAM	6	0	20.50	20.60	20.55



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				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	23.22	23.27	23.24
20	QPSK	1	49	22.96	23.16	23.12
20	QPSK	1	99	23.05	23.11	23.08
20	QPSK	50	0	22.23	22.31	22.21
20	QPSK	50	24	22.04	22.19	22.16
20	QPSK	50	50	21.94	22.16	22.13
20	QPSK	100	0	22.03	22.10	22.14
20	16QAM	1	0	22.04	22.22	22.30
20	16QAM	1	49	22.20	22.10	22.18
20	16QAM	1	99	21.94	22.17	22.12
20	16QAM	50	0	21.12	21.21	21.15
20	16QAM	50	24	21.11	21.15	21.07
20	16QAM	50	50	20.96	21.01	21.01
20	16QAM	100	0	21.09	20.98	21.10
20	64QAM	1	0	22.11	22.08	22.10
20	64QAM	1	49	22.05	22.14	22.10
20	64QAM	1	99	22.14	21.99	22.08
20	64QAM	50	0	21.02	21.22	21.19
20	64QAM	50	24	21.15	20.98	21.16
20	64QAM	50	50	21.07	21.11	21.15
20	64QAM	100	0	20.96	21.07	21.12



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	23.19	23.24	23.18
15	QPSK	1	37	23.19	23.23	23.15
15	QPSK	1	74	22.91	22.95	23.02
15	QPSK	36	0	22.15	22.26	22.07
15	QPSK	36	20	21.95	21.97	22.03
15	QPSK	36	39	21.99	22.03	21.98
15	QPSK	75	0	21.99	22.16	22.03
15	16QAM	1	0	22.10	22.33	22.21
15	16QAM	1	37	22.19	22.24	22.28
15	16QAM	1	74	22.06	22.12	22.13
15	16QAM	36	0	21.17	21.21	21.19
15	16QAM	36	20	20.89	21.02	21.07
15	16QAM	36	39	20.87	21.15	20.95
15	16QAM	75	0	21.11	21.16	21.05
15	64QAM	1	0	22.08	22.21	22.16
15	64QAM	1	37	22.11	22.24	22.19
15	64QAM	1	74	21.96	22.03	22.01
15	64QAM	36	0	21.06	21.15	21.17
15	64QAM	36	20	21.04	21.02	21.12
15	64QAM	36	39	20.91	21.08	21.04
15	64QAM	75	0	21.12	21.20	21.02



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	23.15	23.20	23.13
10	QPSK	1	25	22.99	23.13	23.09
10	QPSK	1	49	23.03	22.99	23.17
10	QPSK	25	0	22.10	22.25	22.18
10	QPSK	25	12	22.10	22.16	22.12
10	QPSK	25	25	21.87	21.97	22.11
10	QPSK	50	0	22.11	22.11	22.09
10	16QAM	1	0	22.20	22.26	22.23
10	16QAM	1	25	22.20	22.13	22.14
10	16QAM	1	49	22.12	22.10	22.17
10	16QAM	25	0	21.19	21.13	21.13
10	16QAM	25	12	21.09	21.08	21.11
10	16QAM	25	25	21.00	20.95	21.03
10	16QAM	50	0	21.06	21.13	21.16
10	64QAM	1	0	22.02	22.16	22.18
10	64QAM	1	25	21.95	22.20	22.09
10	64QAM	1	49	21.92	22.12	22.11
10	64QAM	25	0	21.05	21.09	21.13
10	64QAM	25	12	21.08	21.18	21.05
10	64QAM	25	25	21.06	21.16	21.21
10	64QAM	50	0	21.12	21.01	21.04



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	23.18	23.23	23.20
5	QPSK	1	12	23.08	23.06	23.15
5	QPSK	1	24	23.08	23.09	23.13
5	QPSK	12	0	22.09	22.28	22.20
5	QPSK	12	7	22.17	22.12	22.15
5	QPSK	12	13	21.99	22.07	21.98
5	QPSK	25	0	22.05	22.11	21.97
5	16QAM	1	0	22.19	22.28	22.21
5	16QAM	1	12	22.03	22.24	22.21
5	16QAM	1	24	21.93	22.04	22.16
5	16QAM	12	0	21.20	21.15	21.11
5	16QAM	12	7	21.05	21.05	20.95
5	16QAM	12	13	20.90	21.19	21.09
5	16QAM	25	0	21.15	21.07	20.98
5	64QAM	1	0	22.09	22.12	22.24
5	64QAM	1	12	21.96	22.13	22.05
5	64QAM	1	24	21.99	22.12	22.14
5	64QAM	12	0	21.09	21.29	21.12
5	64QAM	12	7	20.99	21.22	21.08
5	64QAM	12	13	21.07	21.07	21.04
5	64QAM	25	0	20.95	21.17	21.07



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	23.16	23.21	23.20
3	QPSK	1	8	23.13	23.20	23.15
3	QPSK	1	14	23.14	23.13	23.13
3	QPSK	8	0	22.05	22.25	22.07
3	QPSK	8	4	22.16	21.96	22.23
3	QPSK	8	7	21.95	22.15	22.10
3	QPSK	15	0	22.08	22.25	22.13
3	16QAM	1	0	22.18	22.34	22.34
3	16QAM	1	8	22.20	22.34	22.30
3	16QAM	1	14	22.17	22.02	22.18
3	16QAM	8	0	21.16	21.20	21.19
3	16QAM	8	4	21.02	21.05	21.00
3	16QAM	8	7	21.02	21.20	20.99
3	16QAM	15	0	20.91	21.10	21.12
3	64QAM	1	0	22.03	22.30	22.15
3	64QAM	1	8	22.15	22.07	22.19
3	64QAM	1	14	21.97	22.06	22.25
3	64QAM	8	0	21.10	21.20	21.19
3	64QAM	8	4	20.90	21.02	21.01
3	64QAM	8	7	20.91	21.02	20.96
3	64QAM	15	0	21.02	21.07	20.96



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	23.13	23.20	23.15
1.4	QPSK	1	3	23.07	23.18	23.05
1.4	QPSK	1	5	22.99	23.15	23.11
1.4	QPSK	3	0	22.17	22.28	22.27
1.4	QPSK	3	1	22.05	22.06	22.18
1.4	QPSK	3	3	22.06	22.03	22.09
1.4	QPSK	6	0	22.08	22.22	21.95
1.4	16QAM	1	0	22.27	22.32	22.14
1.4	16QAM	1	3	22.16	22.16	22.31
1.4	16QAM	1	5	22.06	22.15	22.19
1.4	16QAM	3	0	21.17	21.24	21.16
1.4	16QAM	3	1	21.01	21.16	21.07
1.4	16QAM	3	3	21.06	21.18	21.04
1.4	16QAM	6	0	20.98	21.00	21.05
1.4	64QAM	1	0	22.16	22.30	22.17
1.4	64QAM	1	3	22.06	22.12	22.20
1.4	64QAM	1	5	22.10	22.20	22.16
1.4	64QAM	3	0	21.04	21.21	21.01
1.4	64QAM	3	1	21.06	21.20	21.06
1.4	64QAM	3	3	21.03	21.07	21.05
1.4	64QAM	6	0	21.09	21.18	21.16



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	23.35	23.43	23.41
10	QPSK	1	25	23.22	23.27	23.29
10	QPSK	1	49	23.18	23.24	23.29
10	QPSK	25	0	22.33	22.38	22.30
10	QPSK	25	12	22.10	22.15	22.20
10	QPSK	25	25	22.10	22.14	22.26
10	QPSK	50	0	22.28	22.26	22.22
10	16QAM	1	0	22.24	22.42	22.38
10	16QAM	1	25	22.25	22.41	22.39
10	16QAM	1	49	22.17	22.35	22.24
10	16QAM	25	0	21.37	21.36	21.41
10	16QAM	25	12	21.07	21.17	21.20
10	16QAM	25	25	21.01	21.23	21.17
10	16QAM	50	0	21.08	21.24	21.13
10	64QAM	1	0	22.26	22.31	22.36
10	64QAM	1	25	22.19	22.42	22.31
10	64QAM	1	49	22.12	22.21	22.24
10	64QAM	25	0	21.08	21.40	21.24
10	64QAM	25	12	21.11	21.17	21.37
10	64QAM	25	25	21.15	21.26	21.36
10	64QAM	50	0	21.13	21.17	21.24



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	23.31	23.40	23.38
5	QPSK	1	12	23.25	23.35	23.25
5	QPSK	1	24	23.13	23.20	23.34
5	QPSK	12	0	22.37	22.38	22.37
5	QPSK	12	7	22.22	22.34	22.21
5	QPSK	12	13	22.00	22.21	22.19
5	QPSK	25	0	22.11	22.20	22.15
5	16QAM	1	0	22.30	22.41	22.37
5	16QAM	1	12	22.16	22.40	22.36
5	16QAM	1	24	22.26	22.33	22.34
5	16QAM	12	0	21.29	21.49	21.34
5	16QAM	12	7	21.28	21.18	21.20
5	16QAM	12	13	21.22	21.17	21.27
5	16QAM	25	0	21.07	21.22	21.11
5	64QAM	1	0	22.31	22.30	22.22
5	64QAM	1	12	22.13	22.25	22.27
5	64QAM	1	24	22.05	22.24	22.30
5	64QAM	12	0	21.29	21.25	21.29
5	64QAM	12	7	21.28	21.25	21.32
5	64QAM	12	13	21.13	21.29	21.25
5	64QAM	25	0	21.17	21.36	21.15



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	23.31	23.38	23.35
3	QPSK	1	8	23.27	23.30	23.18
3	QPSK	1	14	23.08	23.28	23.24
3	QPSK	8	0	22.13	22.31	22.19
3	QPSK	8	4	22.17	22.21	22.37
3	QPSK	8	7	22.09	22.29	22.18
3	QPSK	15	0	22.06	22.35	22.27
3	16QAM	1	0	22.28	22.33	22.31
3	16QAM	1	8	22.25	22.29	22.30
3	16QAM	1	14	22.08	22.26	22.35
3	16QAM	8	0	21.29	21.37	21.41
3	16QAM	8	4	21.09	21.31	21.21
3	16QAM	8	7	21.16	21.17	21.18
3	16QAM	15	0	21.13	21.20	21.36
3	64QAM	1	0	22.31	22.31	22.36
3	64QAM	1	8	22.21	22.41	22.22
3	64QAM	1	14	22.10	22.22	22.39
3	64QAM	8	0	21.27	21.24	21.31
3	64QAM	8	4	21.13	21.33	21.41
3	64QAM	8	7	21.13	21.29	21.36
3	64QAM	15	0	21.24	21.33	21.32



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	23.31	23.39	23.34
1.4	QPSK	1	3	23.20	23.25	23.17
1.4	QPSK	1	5	23.16	23.33	23.15
1.4	QPSK	3	0	22.29	22.32	22.29
1.4	QPSK	3	1	22.10	22.20	22.14
1.4	QPSK	3	3	22.16	22.13	22.17
1.4	QPSK	6	0	22.26	22.17	22.11
1.4	16QAM	1	0	22.33	22.38	22.43
1.4	16QAM	1	3	22.28	22.38	22.27
1.4	16QAM	1	5	22.32	22.18	22.15
1.4	16QAM	3	0	21.24	21.37	21.27
1.4	16QAM	3	1	21.19	21.18	21.22
1.4	16QAM	3	3	21.11	21.27	21.21
1.4	16QAM	6	0	21.09	21.30	21.34
1.4	64QAM	1	0	22.18	22.26	22.45
1.4	64QAM	1	3	22.32	22.30	22.20
1.4	64QAM	1	5	22.16	22.27	22.35
1.4	64QAM	3	0	21.19	21.21	21.23
1.4	64QAM	3	1	21.05	21.30	21.20
1.4	64QAM	3	3	21.11	21.08	21.16
1.4	64QAM	6	0	21.26	21.30	21.22



LTE Band 7						
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	22.57	22.61	22.55
20	QPSK	1	49	22.52	22.55	22.47
20	QPSK	1	99	22.49	22.48	22.45
20	QPSK	50	0	21.60	21.64	21.58
20	QPSK	50	24	21.55	21.60	21.55
20	QPSK	50	50	21.53	21.48	21.54
20	QPSK	100	0	21.49	21.51	21.53
20	16QAM	1	0	21.62	21.67	21.66
20	16QAM	1	49	21.51	21.54	21.57
20	16QAM	1	99	21.54	21.43	21.46
20	16QAM	50	0	20.64	20.65	20.52
20	16QAM	50	24	20.49	20.66	20.53
20	16QAM	50	50	20.43	20.35	20.37
20	16QAM	100	0	20.47	20.48	20.43
20	64QAM	1	0	21.35	21.56	21.56
20	64QAM	1	49	21.35	21.59	21.49
20	64QAM	1	99	21.42	21.53	21.56
20	64QAM	50	0	20.54	20.63	20.53
20	64QAM	50	24	20.47	20.51	20.63
20	64QAM	50	50	20.32	20.42	20.45
20	64QAM	100	0	20.38	20.51	20.51



LTE Band 7						
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	22.55	22.58	22.53
15	QPSK	1	37	22.51	22.46	22.50
15	QPSK	1	74	22.52	22.49	22.46
15	QPSK	36	0	21.54	21.65	21.52
15	QPSK	36	20	21.47	21.39	21.46
15	QPSK	36	39	21.45	21.47	21.36
15	QPSK	75	0	21.48	21.50	21.46
15	16QAM	1	0	21.69	21.71	21.68
15	16QAM	1	37	21.58	21.61	21.60
15	16QAM	1	74	21.52	21.58	21.55
15	16QAM	36	0	20.47	20.63	20.46
15	16QAM	36	20	20.49	20.41	20.49
15	16QAM	36	39	20.43	20.56	20.28
15	16QAM	75	0	20.45	20.46	20.53
15	64QAM	1	0	21.40	21.58	21.50
15	64QAM	1	37	21.43	21.43	21.45
15	64QAM	1	74	21.55	21.55	21.52
15	64QAM	36	0	20.49	20.55	20.51
15	64QAM	36	20	20.45	20.49	20.49
15	64QAM	36	39	20.41	20.45	20.44
15	64QAM	75	0	20.45	20.51	20.52



LTE Band 7						
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	22.54	22.56	22.51
10	QPSK	1	25	22.47	22.48	22.44
10	QPSK	1	49	22.49	22.46	22.48
10	QPSK	25	0	21.54	21.59	21.53
10	QPSK	25	12	21.49	21.53	21.57
10	QPSK	25	25	21.42	21.50	21.38
10	QPSK	50	0	21.46	21.64	21.54
10	16QAM	1	0	21.65	21.71	21.55
10	16QAM	1	25	21.44	21.72	21.69
10	16QAM	1	49	21.45	21.47	21.43
10	16QAM	25	0	20.50	20.73	20.45
10	16QAM	25	12	20.49	20.64	20.46
10	16QAM	25	25	20.39	20.46	20.43
10	16QAM	50	0	20.42	20.40	20.41
10	64QAM	1	0	21.55	21.67	21.54
10	64QAM	1	25	21.49	21.42	21.46
10	64QAM	1	49	21.44	21.57	21.60
10	64QAM	25	0	20.42	20.60	20.44
10	64QAM	25	12	20.55	20.47	20.64
10	64QAM	25	25	20.47	20.47	20.61
10	64QAM	50	0	20.50	20.51	20.59



LTE Band 7						
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	22.53	22.54	22.52
5	QPSK	1	12	22.41	22.53	22.47
5	QPSK	1	24	22.50	22.41	22.38
5	QPSK	12	0	21.45	21.56	21.54
5	QPSK	12	7	21.45	21.48	21.56
5	QPSK	12	13	21.48	21.49	21.53
5	QPSK	25	0	21.45	21.53	21.40
5	16QAM	1	0	21.66	21.73	21.70
5	16QAM	1	12	21.47	21.53	21.60
5	16QAM	1	24	21.39	21.44	21.61
5	16QAM	12	0	20.56	20.56	20.54
5	16QAM	12	7	20.45	20.42	20.40
5	16QAM	12	13	20.44	20.58	20.39
5	16QAM	25	0	20.54	20.53	20.37
5	64QAM	1	0	21.40	21.60	21.46
5	64QAM	1	12	21.41	21.49	21.45
5	64QAM	1	24	21.40	21.38	21.47
5	64QAM	12	0	20.44	20.48	20.46
5	64QAM	12	7	20.47	20.61	20.44
5	64QAM	12	13	20.43	20.48	20.39
5	64QAM	25	0	20.49	20.63	20.59



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37850	38000	38150
Frequency (MHz)				2580	2595	2610
20	QPSK	1	0	23.26	23.30	23.25
20	QPSK	1	49	23.22	23.23	23.15
20	QPSK	1	99	23.05	23.10	23.03
20	QPSK	50	0	22.22	22.29	22.25
20	QPSK	50	24	22.08	22.18	22.22
20	QPSK	50	50	22.00	22.22	22.17
20	QPSK	100	0	22.12	22.08	22.00
20	16QAM	1	0	22.21	22.29	22.39
20	16QAM	1	49	22.22	22.31	22.26
20	16QAM	1	99	22.12	22.16	22.26
20	16QAM	50	0	21.16	21.23	21.28
20	16QAM	50	24	21.04	21.06	21.20
20	16QAM	50	50	21.12	21.18	21.06
20	16QAM	100	0	21.21	21.01	21.14
20	64QAM	1	0	22.24	22.20	22.16
20	64QAM	1	49	22.03	22.28	22.24
20	64QAM	1	99	22.10	22.24	22.22
20	64QAM	50	0	21.07	21.26	21.07
20	64QAM	50	24	21.13	21.09	21.27
20	64QAM	50	50	21.03	21.18	21.03
20	64QAM	100	0	21.06	21.11	21.19



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37825	38000	38175
Frequency (MHz)				2577.5	2595	2612.5
15	QPSK	1	0	23.12	23.25	23.17
15	QPSK	1	37	23.23	23.18	23.22
15	QPSK	1	74	22.99	23.18	23.07
15	QPSK	36	0	22.20	22.29	22.25
15	QPSK	36	20	22.10	22.16	22.28
15	QPSK	36	39	22.09	22.00	21.99
15	QPSK	75	0	22.06	22.18	22.20
15	16QAM	1	0	22.28	22.37	22.33
15	16QAM	1	37	22.23	22.21	22.25
15	16QAM	1	74	22.16	22.20	22.24
15	16QAM	36	0	21.30	21.35	21.11
15	16QAM	36	20	21.03	21.12	21.11
15	16QAM	36	39	21.05	21.14	21.03
15	16QAM	75	0	20.96	20.97	21.19
15	64QAM	1	0	22.07	22.33	22.31
15	64QAM	1	37	22.01	22.31	22.34
15	64QAM	1	74	22.15	22.26	22.06
15	64QAM	36	0	21.21	21.14	21.25
15	64QAM	36	20	21.18	21.18	21.11
15	64QAM	36	39	21.06	21.14	21.05
15	64QAM	75	0	21.05	21.13	21.04



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37800	38000	38200
Frequency (MHz)				2575	2595	2615
10	QPSK	1	0	23.19	23.27	23.22
10	QPSK	1	25	23.07	23.22	23.18
10	QPSK	1	49	23.07	23.06	23.04
10	QPSK	25	0	22.17	22.29	22.23
10	QPSK	25	12	22.20	22.26	22.07
10	QPSK	25	25	22.05	22.12	21.99
10	QPSK	50	0	22.11	22.14	22.01
10	16QAM	1	0	22.24	22.28	22.23
10	16QAM	1	25	22.20	22.14	22.25
10	16QAM	1	49	22.02	22.20	22.22
10	16QAM	25	0	21.09	21.26	21.22
10	16QAM	25	12	21.14	21.19	21.10
10	16QAM	25	25	20.93	21.16	20.93
10	16QAM	50	0	20.96	21.15	21.02
10	64QAM	1	0	22.15	22.30	22.29
10	64QAM	1	25	22.19	22.11	22.10
10	64QAM	1	49	22.03	22.21	22.13
10	64QAM	25	0	21.21	21.30	21.08
10	64QAM	25	12	21.11	21.18	21.06
10	64QAM	25	25	21.11	21.16	21.09
10	64QAM	50	0	21.19	21.26	21.04



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37775	38000	38225
Frequency (MHz)				2572.5	2595	2617.5
5	QPSK	1	0	23.15	23.24	23.22
5	QPSK	1	12	23.05	23.20	23.20
5	QPSK	1	24	23.01	23.13	23.18
5	QPSK	12	0	22.21	22.26	22.13
5	QPSK	12	7	22.00	22.13	22.25
5	QPSK	12	13	21.93	22.19	22.00
5	QPSK	25	0	22.15	22.11	22.09
5	16QAM	1	0	22.33	22.22	22.33
5	16QAM	1	12	22.29	22.27	22.26
5	16QAM	1	24	22.19	22.22	22.07
5	16QAM	12	0	21.28	21.21	21.15
5	16QAM	12	7	21.09	21.11	21.09
5	16QAM	12	13	20.99	21.01	21.09
5	16QAM	25	0	21.07	21.16	21.03
5	64QAM	1	0	22.24	22.22	22.23
5	64QAM	1	12	22.22	22.15	22.20
5	64QAM	1	24	22.03	22.10	22.19
5	64QAM	12	0	21.09	21.19	21.24
5	64QAM	12	7	21.18	21.15	21.06
5	64QAM	12	13	21.18	21.08	21.21
5	64QAM	25	0	21.06	21.07	21.01



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	21.47	0.140	21.52	0.142	21.50	0.141
20	QPSK	1	49	21.36	0.137	21.44	0.139	21.43	0.139
20	QPSK	1	99	21.31	0.135	21.35	0.136	21.39	0.138
20	QPSK	50	0	20.39	0.109	20.45	0.111	20.44	0.111
20	QPSK	50	24	20.34	0.108	20.37	0.109	20.40	0.110
20	QPSK	50	50	20.26	0.106	20.33	0.108	20.31	0.107
20	QPSK	100	0	20.30	0.107	20.41	0.110	20.36	0.109
20	16QAM	1	0	20.45	0.111	20.56	0.114	20.53	0.113
20	16QAM	1	49	20.42	0.110	20.50	0.112	20.47	0.111
20	16QAM	1	99	20.33	0.108	20.36	0.109	20.39	0.109
20	16QAM	50	0	19.41	0.087	19.51	0.089	19.46	0.088
20	16QAM	50	24	19.29	0.085	19.42	0.087	19.34	0.086
20	16QAM	50	50	19.25	0.084	19.36	0.086	19.28	0.085
20	16QAM	100	0	19.32	0.086	19.33	0.086	19.37	0.086
20	64QAM	1	0	20.35	0.108	20.49	0.112	20.46	0.111
20	64QAM	1	49	20.36	0.109	20.43	0.110	20.45	0.111
20	64QAM	1	99	20.30	0.107	20.38	0.109	20.41	0.110
20	64QAM	50	0	19.33	0.086	19.45	0.088	19.41	0.087
20	64QAM	50	24	19.31	0.085	19.39	0.087	19.42	0.087
20	64QAM	50	50	19.30	0.085	19.34	0.086	19.37	0.086
20	64QAM	100	0	19.35	0.086	19.40	0.087	19.36	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				18675		18900		19125	
Frequency (MHz)				1857.5		1880		1902.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	21.43	0.139	21.50	0.141	21.36	0.137
15	QPSK	1	37	21.24	0.133	21.37	0.137	21.30	0.135
15	QPSK	1	74	21.28	0.134	21.26	0.134	21.39	0.138
15	QPSK	36	0	20.41	0.110	20.48	0.112	20.44	0.111
15	QPSK	36	20	20.23	0.105	20.44	0.111	20.44	0.111
15	QPSK	36	39	20.24	0.106	20.21	0.105	20.31	0.107
15	QPSK	75	0	20.26	0.106	20.26	0.106	20.22	0.105
15	16QAM	1	0	20.42	0.110	20.44	0.111	20.45	0.111
15	16QAM	1	37	20.27	0.106	20.58	0.114	20.52	0.113
15	16QAM	1	74	20.24	0.106	20.25	0.106	20.39	0.109
15	16QAM	36	0	19.31	0.085	19.39	0.087	19.46	0.088
15	16QAM	36	20	19.17	0.083	19.48	0.089	19.31	0.085
15	16QAM	36	39	19.23	0.084	19.29	0.085	19.36	0.086
15	16QAM	75	0	19.17	0.083	19.21	0.083	19.22	0.084
15	64QAM	1	0	20.36	0.109	20.47	0.111	20.53	0.113
15	64QAM	1	37	20.27	0.106	20.51	0.112	20.53	0.113
15	64QAM	1	74	20.20	0.105	20.23	0.105	20.38	0.109
15	64QAM	36	0	19.23	0.084	19.30	0.085	19.30	0.085
15	64QAM	36	20	19.21	0.083	19.35	0.086	19.28	0.085
15	64QAM	36	39	19.33	0.086	19.34	0.086	19.27	0.085
15	64QAM	75	0	19.22	0.084	19.40	0.087	19.24	0.084



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	21.42	0.139	21.47	0.140	21.44	0.139
10	QPSK	1	25	21.30	0.135	21.42	0.139	21.44	0.139
10	QPSK	1	49	21.35	0.136	21.28	0.134	21.36	0.137
10	QPSK	25	0	20.32	0.108	20.54	0.113	20.53	0.113
10	QPSK	25	12	20.32	0.108	20.41	0.110	20.43	0.110
10	QPSK	25	25	20.24	0.106	20.27	0.106	20.23	0.105
10	QPSK	50	0	20.35	0.108	20.57	0.114	20.36	0.109
10	16QAM	1	0	20.33	0.108	20.64	0.116	20.59	0.115
10	16QAM	1	25	20.41	0.110	20.58	0.114	20.52	0.113
10	16QAM	1	49	20.33	0.108	20.31	0.107	20.46	0.111
10	16QAM	25	0	19.42	0.087	19.48	0.089	19.45	0.088
10	16QAM	25	12	19.34	0.086	19.49	0.089	19.22	0.084
10	16QAM	25	25	19.22	0.084	19.21	0.083	19.32	0.086
10	16QAM	50	0	19.33	0.086	19.38	0.087	19.23	0.084
10	64QAM	1	0	20.25	0.106	20.55	0.114	20.34	0.108
10	64QAM	1	25	20.41	0.110	20.30	0.107	20.31	0.107
10	64QAM	1	49	20.22	0.105	20.32	0.108	20.34	0.108
10	64QAM	25	0	19.32	0.086	19.54	0.090	19.36	0.086
10	64QAM	25	12	19.34	0.086	19.30	0.085	19.33	0.086
10	64QAM	25	25	19.23	0.084	19.34	0.086	19.34	0.086
10	64QAM	50	0	19.35	0.086	19.45	0.088	19.30	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	21.35	0.136	21.49	0.141	21.39	0.138
5	QPSK	1	12	21.37	0.137	21.37	0.137	21.45	0.140
5	QPSK	1	24	21.39	0.138	21.39	0.138	21.31	0.135
5	QPSK	12	0	20.34	0.108	20.37	0.109	20.53	0.113
5	QPSK	12	7	20.34	0.108	20.41	0.110	20.41	0.110
5	QPSK	12	13	20.27	0.106	20.20	0.105	20.39	0.109
5	QPSK	25	0	20.23	0.105	20.27	0.106	20.23	0.105
5	16QAM	1	0	20.44	0.111	20.59	0.115	20.39	0.109
5	16QAM	1	12	20.33	0.108	20.58	0.114	20.53	0.113
5	16QAM	1	24	20.28	0.107	20.23	0.105	20.40	0.110
5	16QAM	12	0	19.32	0.086	19.55	0.090	19.41	0.087
5	16QAM	12	7	19.27	0.085	19.48	0.089	19.41	0.087
5	16QAM	12	13	19.21	0.083	19.25	0.084	19.28	0.085
5	16QAM	25	0	19.37	0.086	19.23	0.084	19.33	0.086
5	64QAM	1	0	20.40	0.110	20.51	0.112	20.34	0.108
5	64QAM	1	12	20.30	0.107	20.41	0.110	20.37	0.109
5	64QAM	1	24	20.40	0.110	20.42	0.110	20.34	0.108
5	64QAM	12	0	19.20	0.083	19.30	0.085	19.28	0.085
5	64QAM	12	7	19.20	0.083	19.44	0.088	19.33	0.086
5	64QAM	12	13	19.27	0.085	19.33	0.086	19.42	0.087
5	64QAM	25	0	19.20	0.083	19.42	0.087	19.37	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				18615		18900		19185	
Frequency (MHz)				1851.5		1880		1908.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	21.37	0.137	21.48	0.141	21.46	0.140
3	QPSK	1	8	21.36	0.137	21.41	0.138	21.39	0.138
3	QPSK	1	14	21.25	0.133	21.38	0.137	21.43	0.139
3	QPSK	8	0	20.33	0.108	20.38	0.109	20.44	0.111
3	QPSK	8	4	20.34	0.108	20.39	0.109	20.50	0.112
3	QPSK	8	7	20.15	0.104	20.34	0.108	20.19	0.104
3	QPSK	15	0	20.27	0.106	20.49	0.112	20.33	0.108
3	16QAM	1	0	20.55	0.114	20.44	0.111	20.38	0.109
3	16QAM	1	8	20.35	0.108	20.51	0.112	20.46	0.111
3	16QAM	1	14	20.41	0.110	20.26	0.106	20.42	0.110
3	16QAM	8	0	19.27	0.085	19.53	0.090	19.51	0.089
3	16QAM	8	4	19.23	0.084	19.34	0.086	19.43	0.088
3	16QAM	8	7	19.15	0.082	19.27	0.085	19.32	0.086
3	16QAM	15	0	19.41	0.087	19.21	0.083	19.25	0.084
3	64QAM	1	0	20.27	0.106	20.48	0.112	20.47	0.111
3	64QAM	1	8	20.26	0.106	20.28	0.107	20.32	0.108
3	64QAM	1	14	20.26	0.106	20.29	0.107	20.41	0.110
3	64QAM	8	0	19.24	0.084	19.50	0.089	19.33	0.086
3	64QAM	8	4	19.18	0.083	19.29	0.085	19.28	0.085
3	64QAM	8	7	19.37	0.086	19.43	0.088	19.34	0.086
3	64QAM	15	0	19.27	0.085	19.45	0.088	19.29	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				18607		18900		19193	
Frequency (MHz)				1850.7		1880		1909.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	21.42	0.139	21.46	0.140	21.43	0.139
1.4	QPSK	1	3	21.32	0.136	21.39	0.138	21.35	0.136
1.4	QPSK	1	5	21.24	0.133	21.32	0.136	21.28	0.134
1.4	QPSK	3	0	20.28	0.107	20.52	0.113	20.51	0.112
1.4	QPSK	3	1	20.32	0.108	20.36	0.109	20.33	0.108
1.4	QPSK	3	3	20.28	0.107	20.30	0.107	20.26	0.106
1.4	QPSK	6	0	20.24	0.106	20.27	0.106	20.34	0.108
1.4	16QAM	1	0	20.46	0.111	20.60	0.115	20.53	0.113
1.4	16QAM	1	3	20.41	0.110	20.52	0.113	20.34	0.108
1.4	16QAM	1	5	20.38	0.109	20.25	0.106	20.24	0.106
1.4	16QAM	3	0	19.44	0.088	19.54	0.090	19.39	0.087
1.4	16QAM	3	1	19.26	0.084	19.41	0.087	19.34	0.086
1.4	16QAM	3	3	19.28	0.085	19.32	0.086	19.30	0.085
1.4	16QAM	6	0	19.30	0.085	19.27	0.085	19.40	0.087
1.4	64QAM	1	0	20.29	0.107	20.55	0.114	20.40	0.110
1.4	64QAM	1	3	20.40	0.110	20.40	0.110	20.51	0.112
1.4	64QAM	1	5	20.20	0.105	20.24	0.106	20.42	0.110
1.4	64QAM	3	0	19.29	0.085	19.33	0.086	19.43	0.088
1.4	64QAM	3	1	19.27	0.085	19.31	0.085	19.51	0.089
1.4	64QAM	3	3	19.31	0.085	19.43	0.088	19.28	0.085
1.4	64QAM	6	0	19.26	0.084	19.36	0.086	19.31	0.085



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	21.31	0.135	21.36	0.137	21.33	0.136
20	QPSK	1	49	21.05	0.127	21.25	0.133	21.21	0.132
20	QPSK	1	99	21.14	0.130	21.20	0.132	21.17	0.131
20	QPSK	50	0	20.32	0.108	20.40	0.110	20.30	0.107
20	QPSK	50	24	20.13	0.103	20.28	0.107	20.25	0.106
20	QPSK	50	50	20.03	0.101	20.25	0.106	20.22	0.105
20	QPSK	100	0	20.12	0.103	20.19	0.104	20.23	0.105
20	16QAM	1	0	20.13	0.103	20.31	0.107	20.39	0.109
20	16QAM	1	49	20.29	0.107	20.19	0.104	20.27	0.106
20	16QAM	1	99	20.03	0.101	20.26	0.106	20.21	0.105
20	16QAM	50	0	19.21	0.083	19.30	0.085	19.24	0.084
20	16QAM	50	24	19.20	0.083	19.24	0.084	19.16	0.082
20	16QAM	50	50	19.05	0.080	19.10	0.081	19.10	0.081
20	16QAM	100	0	19.18	0.083	19.07	0.081	19.19	0.083
20	64QAM	1	0	20.20	0.105	20.17	0.104	20.19	0.104
20	64QAM	1	49	20.14	0.103	20.23	0.105	20.19	0.104
20	64QAM	1	99	20.23	0.105	20.08	0.102	20.17	0.104
20	64QAM	50	0	19.11	0.081	19.31	0.085	19.28	0.085
20	64QAM	50	24	19.24	0.084	19.07	0.081	19.25	0.084
20	64QAM	50	50	19.16	0.082	19.20	0.083	19.24	0.084
20	64QAM	100	0	19.05	0.080	19.16	0.082	19.21	0.083



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	21.28	0.134	21.33	0.136	21.27	0.134
15	QPSK	1	37	21.28	0.134	21.32	0.136	21.24	0.133
15	QPSK	1	74	21.00	0.126	21.04	0.127	21.11	0.129
15	QPSK	36	0	20.24	0.106	20.35	0.108	20.16	0.104
15	QPSK	36	20	20.04	0.101	20.06	0.101	20.12	0.103
15	QPSK	36	39	20.08	0.102	20.12	0.103	20.07	0.102
15	QPSK	75	0	20.08	0.102	20.25	0.106	20.12	0.103
15	16QAM	1	0	20.19	0.104	20.42	0.110	20.30	0.107
15	16QAM	1	37	20.28	0.107	20.33	0.108	20.37	0.109
15	16QAM	1	74	20.15	0.104	20.21	0.105	20.22	0.105
15	16QAM	36	0	19.26	0.084	19.30	0.085	19.28	0.085
15	16QAM	36	20	18.98	0.079	19.11	0.081	19.16	0.082
15	16QAM	36	39	18.96	0.079	19.24	0.084	19.04	0.080
15	16QAM	75	0	19.20	0.083	19.25	0.084	19.14	0.082
15	64QAM	1	0	20.17	0.104	20.30	0.107	20.25	0.106
15	64QAM	1	37	20.20	0.105	20.33	0.108	20.28	0.107
15	64QAM	1	74	20.05	0.101	20.12	0.103	20.10	0.102
15	64QAM	36	0	19.15	0.082	19.24	0.084	19.26	0.084
15	64QAM	36	20	19.13	0.082	19.11	0.081	19.21	0.083
15	64QAM	36	39	19.00	0.079	19.17	0.083	19.13	0.082
15	64QAM	75	0	19.21	0.083	19.29	0.085	19.11	0.081



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	21.24	0.133	21.29	0.135	21.22	0.132
10	QPSK	1	25	21.08	0.128	21.22	0.132	21.18	0.131
10	QPSK	1	49	21.12	0.129	21.08	0.128	21.26	0.134
10	QPSK	25	0	20.19	0.104	20.34	0.108	20.27	0.106
10	QPSK	25	12	20.19	0.104	20.25	0.106	20.21	0.105
10	QPSK	25	25	19.96	0.099	20.06	0.101	20.20	0.105
10	QPSK	50	0	20.20	0.105	20.20	0.105	20.18	0.104
10	16QAM	1	0	20.29	0.107	20.35	0.108	20.32	0.108
10	16QAM	1	25	20.29	0.107	20.22	0.105	20.23	0.105
10	16QAM	1	49	20.21	0.105	20.19	0.104	20.26	0.106
10	16QAM	25	0	19.28	0.085	19.22	0.084	19.22	0.084
10	16QAM	25	12	19.18	0.083	19.17	0.083	19.20	0.083
10	16QAM	25	25	19.09	0.081	19.04	0.080	19.12	0.082
10	16QAM	50	0	19.15	0.082	19.22	0.084	19.25	0.084
10	64QAM	1	0	20.11	0.103	20.25	0.106	20.27	0.106
10	64QAM	1	25	20.04	0.101	20.29	0.107	20.18	0.104
10	64QAM	1	49	20.01	0.100	20.21	0.105	20.20	0.105
10	64QAM	25	0	19.14	0.082	19.18	0.083	19.22	0.084
10	64QAM	25	12	19.17	0.083	19.27	0.085	19.14	0.082
10	64QAM	25	25	19.15	0.082	19.25	0.084	19.30	0.085
10	64QAM	50	0	19.21	0.083	19.10	0.081	19.13	0.082



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	21.27	0.134	21.32	0.136	21.29	0.135
5	QPSK	1	12	21.17	0.131	21.15	0.130	21.24	0.133
5	QPSK	1	24	21.17	0.131	21.18	0.131	21.22	0.132
5	QPSK	12	0	20.18	0.104	20.37	0.109	20.29	0.107
5	QPSK	12	7	20.26	0.106	20.21	0.105	20.24	0.106
5	QPSK	12	13	20.08	0.102	20.16	0.104	20.07	0.102
5	QPSK	25	0	20.14	0.103	20.20	0.105	20.06	0.101
5	16QAM	1	0	20.28	0.107	20.37	0.109	20.30	0.107
5	16QAM	1	12	20.12	0.103	20.33	0.108	20.30	0.107
5	16QAM	1	24	20.02	0.100	20.13	0.103	20.25	0.106
5	16QAM	12	0	19.29	0.085	19.24	0.084	19.20	0.083
5	16QAM	12	7	19.14	0.082	19.14	0.082	19.04	0.080
5	16QAM	12	13	18.99	0.079	19.28	0.085	19.18	0.083
5	16QAM	25	0	19.24	0.084	19.16	0.082	19.07	0.081
5	64QAM	1	0	20.18	0.104	20.21	0.105	20.33	0.108
5	64QAM	1	12	20.05	0.101	20.22	0.105	20.14	0.103
5	64QAM	1	24	20.08	0.102	20.21	0.105	20.23	0.105
5	64QAM	12	0	19.18	0.083	19.38	0.087	19.21	0.083
5	64QAM	12	7	19.08	0.081	19.31	0.085	19.17	0.083
5	64QAM	12	13	19.16	0.082	19.16	0.082	19.13	0.082
5	64QAM	25	0	19.04	0.080	19.26	0.084	19.16	0.082



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	21.25	0.133	21.30	0.135	21.29	0.135
3	QPSK	1	8	21.22	0.132	21.29	0.135	21.24	0.133
3	QPSK	1	14	21.23	0.133	21.22	0.132	21.22	0.132
3	QPSK	8	0	20.14	0.103	20.34	0.108	20.16	0.104
3	QPSK	8	4	20.25	0.106	20.05	0.101	20.32	0.108
3	QPSK	8	7	20.04	0.101	20.24	0.106	20.19	0.104
3	QPSK	15	0	20.17	0.104	20.34	0.108	20.22	0.105
3	16QAM	1	0	20.27	0.106	20.43	0.110	20.43	0.110
3	16QAM	1	8	20.29	0.107	20.43	0.110	20.39	0.109
3	16QAM	1	14	20.26	0.106	20.11	0.103	20.27	0.106
3	16QAM	8	0	19.25	0.084	19.29	0.085	19.28	0.085
3	16QAM	8	4	19.11	0.081	19.14	0.082	19.09	0.081
3	16QAM	8	7	19.11	0.081	19.29	0.085	19.08	0.081
3	16QAM	15	0	19.00	0.079	19.19	0.083	19.21	0.083
3	64QAM	1	0	20.12	0.103	20.39	0.109	20.24	0.106
3	64QAM	1	8	20.24	0.106	20.16	0.104	20.28	0.107
3	64QAM	1	14	20.06	0.101	20.15	0.104	20.34	0.108
3	64QAM	8	0	19.19	0.083	19.29	0.085	19.28	0.085
3	64QAM	8	4	18.99	0.079	19.11	0.081	19.10	0.081
3	64QAM	8	7	19.00	0.079	19.11	0.081	19.05	0.080
3	64QAM	15	0	19.11	0.081	19.16	0.082	19.05	0.080



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	21.22	0.132	21.29	0.135	21.24	0.133
1.4	QPSK	1	3	21.16	0.131	21.27	0.134	21.14	0.130
1.4	QPSK	1	5	21.08	0.128	21.24	0.133	21.20	0.132
1.4	QPSK	3	0	20.26	0.106	20.37	0.109	20.36	0.109
1.4	QPSK	3	1	20.14	0.103	20.15	0.104	20.27	0.106
1.4	QPSK	3	3	20.15	0.104	20.12	0.103	20.18	0.104
1.4	QPSK	6	0	20.17	0.104	20.31	0.107	20.04	0.101
1.4	16QAM	1	0	20.36	0.109	20.41	0.110	20.23	0.105
1.4	16QAM	1	3	20.25	0.106	20.25	0.106	20.40	0.110
1.4	16QAM	1	5	20.15	0.104	20.24	0.106	20.28	0.107
1.4	16QAM	3	0	19.26	0.084	19.33	0.086	19.25	0.084
1.4	16QAM	3	1	19.10	0.081	19.25	0.084	19.16	0.082
1.4	16QAM	3	3	19.15	0.082	19.27	0.085	19.13	0.082
1.4	16QAM	6	0	19.07	0.081	19.09	0.081	19.14	0.082
1.4	64QAM	1	0	20.25	0.106	20.39	0.109	20.26	0.106
1.4	64QAM	1	3	20.15	0.104	20.21	0.105	20.29	0.107
1.4	64QAM	1	5	20.19	0.104	20.29	0.107	20.25	0.106
1.4	64QAM	3	0	19.13	0.082	19.30	0.085	19.10	0.081
1.4	64QAM	3	1	19.15	0.082	19.29	0.085	19.15	0.082
1.4	64QAM	3	3	19.12	0.082	19.16	0.082	19.14	0.082
1.4	64QAM	6	0	19.18	0.083	19.27	0.085	19.25	0.084



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	19.58	0.091	19.66	0.092	19.64	0.092
10	QPSK	1	25	19.45	0.088	19.50	0.089	19.52	0.090
10	QPSK	1	49	19.41	0.087	19.47	0.089	19.52	0.090
10	QPSK	25	0	18.56	0.072	18.61	0.073	18.53	0.071
10	QPSK	25	12	18.33	0.068	18.38	0.069	18.43	0.070
10	QPSK	25	25	18.33	0.068	18.37	0.069	18.49	0.071
10	QPSK	50	0	18.51	0.071	18.49	0.071	18.45	0.070
10	16QAM	1	0	18.47	0.070	18.65	0.073	18.61	0.073
10	16QAM	1	25	18.48	0.070	18.64	0.073	18.62	0.073
10	16QAM	1	49	18.40	0.069	18.58	0.072	18.47	0.070
10	16QAM	25	0	17.60	0.058	17.59	0.057	17.64	0.058
10	16QAM	25	12	17.30	0.054	17.40	0.055	17.43	0.055
10	16QAM	25	25	17.24	0.053	17.46	0.056	17.40	0.055
10	16QAM	50	0	17.31	0.054	17.47	0.056	17.36	0.054
10	64QAM	1	0	18.49	0.071	18.54	0.071	18.59	0.072
10	64QAM	1	25	18.42	0.070	18.65	0.073	18.54	0.071
10	64QAM	1	49	18.35	0.068	18.44	0.070	18.47	0.070
10	64QAM	25	0	17.31	0.054	17.63	0.058	17.47	0.056
10	64QAM	25	12	17.34	0.054	17.40	0.055	17.60	0.058
10	64QAM	25	25	17.38	0.055	17.49	0.056	17.59	0.057
10	64QAM	50	0	17.36	0.054	17.40	0.055	17.47	0.056



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	19.54	0.090	19.63	0.092	19.61	0.091
5	QPSK	1	12	19.48	0.089	19.58	0.091	19.48	0.089
5	QPSK	1	24	19.36	0.086	19.43	0.088	19.57	0.091
5	QPSK	12	0	18.60	0.072	18.61	0.073	18.60	0.072
5	QPSK	12	7	18.45	0.070	18.57	0.072	18.44	0.070
5	QPSK	12	13	18.23	0.067	18.44	0.070	18.42	0.070
5	QPSK	25	0	18.34	0.068	18.43	0.070	18.38	0.069
5	16QAM	1	0	18.53	0.071	18.64	0.073	18.60	0.072
5	16QAM	1	12	18.39	0.069	18.63	0.073	18.59	0.072
5	16QAM	1	24	18.49	0.071	18.56	0.072	18.57	0.072
5	16QAM	12	0	17.52	0.056	17.72	0.059	17.57	0.057
5	16QAM	12	7	17.51	0.056	17.41	0.055	17.43	0.055
5	16QAM	12	13	17.45	0.056	17.40	0.055	17.50	0.056
5	16QAM	25	0	17.30	0.054	17.45	0.056	17.34	0.054
5	64QAM	1	0	18.54	0.071	18.53	0.071	18.45	0.070
5	64QAM	1	12	18.36	0.069	18.48	0.070	18.50	0.071
5	64QAM	1	24	18.28	0.067	18.47	0.070	18.53	0.071
5	64QAM	12	0	17.52	0.056	17.48	0.056	17.52	0.056
5	64QAM	12	7	17.51	0.056	17.48	0.056	17.55	0.057
5	64QAM	12	13	17.36	0.054	17.52	0.056	17.48	0.056
5	64QAM	25	0	17.40	0.055	17.59	0.057	17.38	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				20415		20525		20635	
Frequency (MHz)				825.5		836.5		847.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	19.54	0.090	19.61	0.091	19.58	0.091
3	QPSK	1	8	19.50	0.089	19.53	0.090	19.41	0.087
3	QPSK	1	14	19.31	0.085	19.51	0.089	19.47	0.089
3	QPSK	8	0	18.36	0.069	18.54	0.071	18.42	0.070
3	QPSK	8	4	18.40	0.069	18.44	0.070	18.60	0.072
3	QPSK	8	7	18.32	0.068	18.52	0.071	18.41	0.069
3	QPSK	15	0	18.29	0.067	18.58	0.072	18.50	0.071
3	16QAM	1	0	18.51	0.071	18.56	0.072	18.54	0.071
3	16QAM	1	8	18.48	0.070	18.52	0.071	18.53	0.071
3	16QAM	1	14	18.31	0.068	18.49	0.071	18.58	0.072
3	16QAM	8	0	17.52	0.056	17.60	0.058	17.64	0.058
3	16QAM	8	4	17.32	0.054	17.54	0.057	17.44	0.055
3	16QAM	8	7	17.39	0.055	17.40	0.055	17.41	0.055
3	16QAM	15	0	17.36	0.054	17.43	0.055	17.59	0.057
3	64QAM	1	0	18.54	0.071	18.54	0.071	18.59	0.072
3	64QAM	1	8	18.44	0.070	18.64	0.073	18.45	0.070
3	64QAM	1	14	18.33	0.068	18.45	0.070	18.62	0.073
3	64QAM	8	0	17.50	0.056	17.47	0.056	17.54	0.057
3	64QAM	8	4	17.36	0.054	17.56	0.057	17.64	0.058
3	64QAM	8	7	17.36	0.054	17.52	0.056	17.59	0.057
3	64QAM	15	0	17.47	0.056	17.56	0.057	17.55	0.057



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	19.54	0.090	19.62	0.092	19.57	0.091
1.4	QPSK	1	3	19.43	0.088	19.48	0.089	19.40	0.087
1.4	QPSK	1	5	19.39	0.087	19.56	0.090	19.38	0.087
1.4	QPSK	3	0	18.52	0.071	18.55	0.072	18.52	0.071
1.4	QPSK	3	1	18.33	0.068	18.43	0.070	18.37	0.069
1.4	QPSK	3	3	18.39	0.069	18.36	0.069	18.40	0.069
1.4	QPSK	6	0	18.49	0.071	18.40	0.069	18.34	0.068
1.4	16QAM	1	0	18.56	0.072	18.61	0.073	18.66	0.073
1.4	16QAM	1	3	18.51	0.071	18.61	0.073	18.50	0.071
1.4	16QAM	1	5	18.55	0.072	18.41	0.069	18.38	0.069
1.4	16QAM	3	0	17.47	0.056	17.60	0.058	17.50	0.056
1.4	16QAM	3	1	17.42	0.055	17.41	0.055	17.45	0.056
1.4	16QAM	3	3	17.34	0.054	17.50	0.056	17.44	0.055
1.4	16QAM	6	0	17.32	0.054	17.53	0.057	17.57	0.057
1.4	64QAM	1	0	18.41	0.069	18.49	0.071	18.68	0.074
1.4	64QAM	1	3	18.55	0.072	18.53	0.071	18.43	0.070
1.4	64QAM	1	5	18.39	0.069	18.50	0.071	18.58	0.072
1.4	64QAM	3	0	17.42	0.055	17.44	0.055	17.46	0.056
1.4	64QAM	3	1	17.28	0.053	17.53	0.057	17.43	0.055
1.4	64QAM	3	3	17.34	0.054	17.31	0.054	17.39	0.055
1.4	64QAM	6	0	17.49	0.056	17.53	0.057	17.45	0.056



LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20850		21100		21350	
Frequency (MHz)				2510		2535		2560	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	20.90	0.123	20.94	0.124	20.88	0.122
20	QPSK	1	49	20.85	0.122	20.88	0.122	20.80	0.120
20	QPSK	1	99	20.82	0.121	20.81	0.121	20.78	0.120
20	QPSK	50	0	19.93	0.098	19.97	0.099	19.91	0.098
20	QPSK	50	24	19.88	0.097	19.93	0.098	19.88	0.097
20	QPSK	50	50	19.86	0.097	19.81	0.096	19.87	0.097
20	QPSK	100	0	19.82	0.096	19.84	0.096	19.86	0.097
20	16QAM	1	0	19.95	0.099	20.00	0.100	19.99	0.100
20	16QAM	1	49	19.84	0.096	19.87	0.097	19.90	0.098
20	16QAM	1	99	19.87	0.097	19.76	0.095	19.79	0.095
20	16QAM	50	0	18.97	0.079	18.98	0.079	18.85	0.077
20	16QAM	50	24	18.82	0.076	18.99	0.079	18.86	0.077
20	16QAM	50	50	18.76	0.075	18.68	0.074	18.70	0.074
20	16QAM	100	0	18.80	0.076	18.81	0.076	18.76	0.075
20	64QAM	1	0	19.68	0.093	19.89	0.097	19.89	0.097
20	64QAM	1	49	19.68	0.093	19.92	0.098	19.82	0.096
20	64QAM	1	99	19.75	0.094	19.86	0.097	19.89	0.097
20	64QAM	50	0	18.87	0.077	18.96	0.079	18.86	0.077
20	64QAM	50	24	18.80	0.076	18.84	0.077	18.96	0.079
20	64QAM	50	50	18.65	0.073	18.75	0.075	18.78	0.076
20	64QAM	100	0	18.71	0.074	18.84	0.077	18.84	0.077



LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20825		21100		21375	
Frequency (MHz)				2507.5		2535		2562.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	20.88	0.122	20.91	0.123	20.86	0.122
15	QPSK	1	37	20.84	0.121	20.79	0.120	20.83	0.121
15	QPSK	1	74	20.85	0.122	20.82	0.121	20.79	0.120
15	QPSK	36	0	19.87	0.097	19.98	0.100	19.85	0.097
15	QPSK	36	20	19.80	0.095	19.72	0.094	19.79	0.095
15	QPSK	36	39	19.78	0.095	19.80	0.095	19.69	0.093
15	QPSK	75	0	19.81	0.096	19.83	0.096	19.79	0.095
15	16QAM	1	0	20.02	0.100	20.04	0.101	20.01	0.100
15	16QAM	1	37	19.91	0.098	19.94	0.099	19.93	0.098
15	16QAM	1	74	19.85	0.097	19.91	0.098	19.88	0.097
15	16QAM	36	0	18.80	0.076	18.96	0.079	18.79	0.076
15	16QAM	36	20	18.82	0.076	18.74	0.075	18.82	0.076
15	16QAM	36	39	18.76	0.075	18.89	0.077	18.61	0.073
15	16QAM	75	0	18.78	0.076	18.79	0.076	18.86	0.077
15	64QAM	1	0	19.73	0.094	19.91	0.098	19.83	0.096
15	64QAM	1	37	19.76	0.095	19.76	0.095	19.78	0.095
15	64QAM	1	74	19.88	0.097	19.88	0.097	19.85	0.097
15	64QAM	36	0	18.82	0.076	18.88	0.077	18.84	0.077
15	64QAM	36	20	18.78	0.076	18.82	0.076	18.82	0.076
15	64QAM	36	39	18.74	0.075	18.78	0.076	18.77	0.075
15	64QAM	75	0	18.78	0.076	18.84	0.077	18.85	0.077



LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20800		21100		21400	
Frequency (MHz)				2505		2535		2565	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	20.87	0.122	20.89	0.123	20.84	0.121
10	QPSK	1	25	20.80	0.120	20.81	0.121	20.77	0.119
10	QPSK	1	49	20.82	0.121	20.79	0.120	20.81	0.121
10	QPSK	25	0	19.87	0.097	19.92	0.098	19.86	0.097
10	QPSK	25	12	19.82	0.096	19.86	0.097	19.90	0.098
10	QPSK	25	25	19.75	0.094	19.83	0.096	19.71	0.094
10	QPSK	50	0	19.79	0.095	19.97	0.099	19.87	0.097
10	16QAM	1	0	19.98	0.100	20.04	0.101	19.88	0.097
10	16QAM	1	25	19.77	0.095	20.05	0.101	20.02	0.100
10	16QAM	1	49	19.78	0.095	19.80	0.095	19.76	0.095
10	16QAM	25	0	18.83	0.076	19.06	0.081	18.78	0.076
10	16QAM	25	12	18.82	0.076	18.97	0.079	18.79	0.076
10	16QAM	25	25	18.72	0.074	18.79	0.076	18.76	0.075
10	16QAM	50	0	18.75	0.075	18.73	0.075	18.74	0.075
10	64QAM	1	0	19.88	0.097	20.00	0.100	19.87	0.097
10	64QAM	1	25	19.82	0.096	19.75	0.094	19.79	0.095
10	64QAM	1	49	19.77	0.095	19.90	0.098	19.93	0.098
10	64QAM	25	0	18.75	0.075	18.93	0.078	18.77	0.075
10	64QAM	25	12	18.88	0.077	18.80	0.076	18.97	0.079
10	64QAM	25	25	18.80	0.076	18.80	0.076	18.94	0.078
10	64QAM	50	0	18.83	0.076	18.84	0.077	18.92	0.078



LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20775		21100		21425	
Frequency (MHz)				2502.5		2535		2567.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	20.86	0.122	20.87	0.122	20.85	0.122
5	QPSK	1	12	20.74	0.119	20.86	0.122	20.80	0.120
5	QPSK	1	24	20.83	0.121	20.74	0.119	20.71	0.118
5	QPSK	12	0	19.78	0.095	19.89	0.097	19.87	0.097
5	QPSK	12	7	19.78	0.095	19.81	0.096	19.89	0.097
5	QPSK	12	13	19.81	0.096	19.82	0.096	19.86	0.097
5	QPSK	25	0	19.78	0.095	19.86	0.097	19.73	0.094
5	16QAM	1	0	19.99	0.100	20.06	0.101	20.03	0.101
5	16QAM	1	12	19.80	0.095	19.86	0.097	19.93	0.098
5	16QAM	1	24	19.72	0.094	19.77	0.095	19.94	0.099
5	16QAM	12	0	18.89	0.077	18.89	0.077	18.87	0.077
5	16QAM	12	7	18.78	0.076	18.75	0.075	18.73	0.075
5	16QAM	12	13	18.77	0.075	18.91	0.078	18.72	0.074
5	16QAM	25	0	18.87	0.077	18.86	0.077	18.70	0.074
5	64QAM	1	0	19.73	0.094	19.93	0.098	19.79	0.095
5	64QAM	1	12	19.74	0.094	19.82	0.096	19.78	0.095
5	64QAM	1	24	19.73	0.094	19.71	0.094	19.80	0.095
5	64QAM	12	0	18.77	0.075	18.81	0.076	18.79	0.076
5	64QAM	12	7	18.80	0.076	18.94	0.078	18.77	0.075
5	64QAM	12	13	18.76	0.075	18.81	0.076	18.72	0.074
5	64QAM	25	0	18.82	0.076	18.96	0.079	18.92	0.078



LTE Band 38				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37850		38000		38150	
Frequency (MHz)				2580		2595		2610	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	21.60	0.145	21.64	0.146	21.59	0.144
20	QPSK	1	49	21.56	0.143	21.57	0.144	21.49	0.141
20	QPSK	1	99	21.39	0.138	21.44	0.139	21.37	0.137
20	QPSK	50	0	20.56	0.114	20.63	0.116	20.59	0.115
20	QPSK	50	24	20.42	0.110	20.52	0.113	20.56	0.114
20	QPSK	50	50	20.34	0.108	20.56	0.114	20.51	0.112
20	QPSK	100	0	20.46	0.111	20.42	0.110	20.34	0.108
20	16QAM	1	0	20.55	0.114	20.63	0.116	20.73	0.118
20	16QAM	1	49	20.56	0.114	20.65	0.116	20.60	0.115
20	16QAM	1	99	20.46	0.111	20.50	0.112	20.60	0.115
20	16QAM	50	0	19.50	0.089	19.57	0.091	19.62	0.092
20	16QAM	50	24	19.38	0.087	19.40	0.087	19.54	0.090
20	16QAM	50	50	19.46	0.088	19.52	0.090	19.40	0.087
20	16QAM	100	0	19.55	0.090	19.35	0.086	19.48	0.089
20	64QAM	1	0	20.58	0.114	20.54	0.113	20.50	0.112
20	64QAM	1	49	20.37	0.109	20.62	0.115	20.58	0.114
20	64QAM	1	99	20.44	0.111	20.58	0.114	20.56	0.114
20	64QAM	50	0	19.41	0.087	19.60	0.091	19.41	0.087
20	64QAM	50	24	19.47	0.089	19.43	0.088	19.61	0.091
20	64QAM	50	50	19.37	0.086	19.52	0.090	19.37	0.086
20	64QAM	100	0	19.40	0.087	19.45	0.088	19.53	0.090



LTE Band 38				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37825		38000		38175	
Frequency (MHz)				2577.5		2595		2612.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	21.46	0.140	21.59	0.144	21.51	0.142
15	QPSK	1	37	21.57	0.144	21.52	0.142	21.56	0.143
15	QPSK	1	74	21.33	0.136	21.52	0.142	21.41	0.138
15	QPSK	36	0	20.54	0.113	20.63	0.116	20.59	0.115
15	QPSK	36	20	20.44	0.111	20.50	0.112	20.62	0.115
15	QPSK	36	39	20.43	0.110	20.34	0.108	20.33	0.108
15	QPSK	75	0	20.40	0.110	20.52	0.113	20.54	0.113
15	16QAM	1	0	20.62	0.115	20.71	0.118	20.67	0.117
15	16QAM	1	37	20.57	0.114	20.55	0.114	20.59	0.115
15	16QAM	1	74	20.50	0.112	20.54	0.113	20.58	0.114
15	16QAM	36	0	19.64	0.092	19.69	0.093	19.45	0.088
15	16QAM	36	20	19.37	0.086	19.46	0.088	19.45	0.088
15	16QAM	36	39	19.39	0.087	19.48	0.089	19.37	0.086
15	16QAM	75	0	19.30	0.085	19.31	0.085	19.53	0.090
15	64QAM	1	0	20.41	0.110	20.67	0.117	20.65	0.116
15	64QAM	1	37	20.35	0.108	20.65	0.116	20.68	0.117
15	64QAM	1	74	20.49	0.112	20.60	0.115	20.40	0.110
15	64QAM	36	0	19.55	0.090	19.48	0.089	19.59	0.091
15	64QAM	36	20	19.52	0.090	19.52	0.090	19.45	0.088
15	64QAM	36	39	19.40	0.087	19.48	0.089	19.39	0.087
15	64QAM	75	0	19.39	0.087	19.47	0.089	19.38	0.087



LTE Band 38				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37800		38000		38200	
Frequency (MHz)				2575		2595		2615	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	21.53	0.142	21.61	0.145	21.56	0.143
10	QPSK	1	25	21.41	0.138	21.56	0.143	21.52	0.142
10	QPSK	1	49	21.41	0.138	21.40	0.138	21.38	0.137
10	QPSK	25	0	20.51	0.112	20.63	0.116	20.57	0.114
10	QPSK	25	12	20.54	0.113	20.60	0.115	20.41	0.110
10	QPSK	25	25	20.39	0.109	20.46	0.111	20.33	0.108
10	QPSK	50	0	20.45	0.111	20.48	0.112	20.35	0.108
10	16QAM	1	0	20.58	0.114	20.62	0.115	20.57	0.114
10	16QAM	1	25	20.54	0.113	20.48	0.112	20.59	0.115
10	16QAM	1	49	20.36	0.109	20.54	0.113	20.56	0.114
10	16QAM	25	0	19.43	0.088	19.60	0.091	19.56	0.090
10	16QAM	25	12	19.48	0.089	19.53	0.090	19.44	0.088
10	16QAM	25	25	19.27	0.085	19.50	0.089	19.27	0.085
10	16QAM	50	0	19.30	0.085	19.49	0.089	19.36	0.086
10	64QAM	1	0	20.49	0.112	20.64	0.116	20.63	0.116
10	64QAM	1	25	20.53	0.113	20.45	0.111	20.44	0.111
10	64QAM	1	49	20.37	0.109	20.55	0.114	20.47	0.111
10	64QAM	25	0	19.55	0.090	19.64	0.092	19.42	0.087
10	64QAM	25	12	19.45	0.088	19.52	0.090	19.40	0.087
10	64QAM	25	25	19.45	0.088	19.50	0.089	19.43	0.088
10	64QAM	50	0	19.53	0.090	19.60	0.091	19.38	0.087



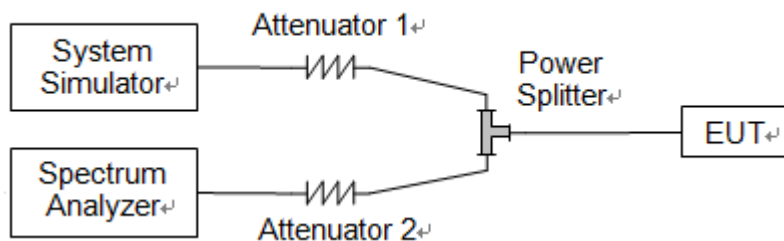
LTE Band 38				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37775		38000		38225	
Frequency (MHz)				2572.5		2595		2617.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	21.49	0.141	21.58	0.144	21.56	0.143
5	QPSK	1	12	21.39	0.138	21.54	0.143	21.54	0.143
5	QPSK	1	24	21.35	0.136	21.47	0.140	21.52	0.142
5	QPSK	12	0	20.55	0.114	20.60	0.115	20.47	0.111
5	QPSK	12	7	20.34	0.108	20.47	0.111	20.59	0.115
5	QPSK	12	13	20.27	0.106	20.53	0.113	20.34	0.108
5	QPSK	25	0	20.49	0.112	20.45	0.111	20.43	0.110
5	16QAM	1	0	20.67	0.117	20.56	0.114	20.67	0.117
5	16QAM	1	12	20.63	0.116	20.61	0.115	20.60	0.115
5	16QAM	1	24	20.53	0.113	20.56	0.114	20.41	0.110
5	16QAM	12	0	19.62	0.092	19.55	0.090	19.49	0.089
5	16QAM	12	7	19.43	0.088	19.45	0.088	19.43	0.088
5	16QAM	12	13	19.33	0.086	19.35	0.086	19.43	0.088
5	16QAM	25	0	19.41	0.087	19.50	0.089	19.37	0.086
5	64QAM	1	0	20.58	0.114	20.56	0.114	20.57	0.114
5	64QAM	1	12	20.56	0.114	20.49	0.112	20.54	0.113
5	64QAM	1	24	20.37	0.109	20.44	0.111	20.53	0.113
5	64QAM	12	0	19.43	0.088	19.53	0.090	19.58	0.091
5	64QAM	12	7	19.52	0.090	19.49	0.089	19.40	0.087
5	64QAM	12	13	19.52	0.090	19.42	0.087	19.55	0.090
5	64QAM	25	0	19.40	0.087	19.41	0.087	19.35	0.086

2.2. Occupied Bandwidth

2.2.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

2.2.2. 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 50Ohm; 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.

2.2.3. Test Procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.

2.2.4. Test Result



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B2	1.4	Low	18607	1850.7	QPSK	1.10	1.24	PASS
B2	1.4	Low	18607	1850.7	64QAM	1.10	1.24	PASS
B2	1.4	Low	18607	1850.7	16QAM	1.10	1.25	PASS
B2	1.4	Mid	18900	1880	QPSK	1.10	1.24	PASS
B2	1.4	Mid	18900	1880	64QAM	1.10	1.25	PASS
B2	1.4	Mid	18900	1880	16QAM	1.10	1.25	PASS
B2	1.4	High	19193	1909.3	QPSK	1.10	1.24	PASS
B2	1.4	High	19193	1909.3	64QAM	1.10	1.26	PASS
B2	1.4	High	19193	1909.3	16QAM	1.10	1.25	PASS
B2	3	Low	18615	1851.5	QPSK	2.71	3.05	PASS
B2	3	Low	18615	1851.5	64QAM	2.73	3.05	PASS
B2	3	Low	18615	1851.5	16QAM	2.71	3.05	PASS
B2	3	Mid	18900	1880	QPSK	2.72	3.04	PASS
B2	3	Mid	18900	1880	64QAM	2.72	3.06	PASS
B2	3	Mid	18900	1880	16QAM	2.71	3.06	PASS
B2	3	High	19185	1908.5	QPSK	2.71	3.04	PASS
B2	3	High	19185	1908.5	64QAM	2.72	3.05	PASS
B2	3	High	19185	1908.5	16QAM	2.71	3.06	PASS
B2	5	Low	18625	1852.5	QPSK	4.50	4.97	PASS
B2	5	Low	18625	1852.5	64QAM	4.50	4.96	PASS
B2	5	Low	18625	1852.5	16QAM	4.50	4.95	PASS
B2	5	Mid	18900	1880	QPSK	4.50	4.97	PASS
B2	5	Mid	18900	1880	64QAM	4.48	4.95	PASS
B2	5	Mid	18900	1880	16QAM	4.49	4.95	PASS
B2	5	High	19175	1907.5	QPSK	4.49	4.96	PASS
B2	5	High	19175	1907.5	64QAM	4.49	4.96	PASS
B2	5	High	19175	1907.5	16QAM	4.50	4.95	PASS
B2	10	Low	18650	1855	QPSK	8.98	9.87	PASS
B2	10	Low	18650	1855	64QAM	8.97	9.84	PASS
B2	10	Low	18650	1855	16QAM	8.97	9.88	PASS
B2	10	Mid	18900	1880	QPSK	9.03	9.84	PASS
B2	10	Mid	18900	1880	64QAM	8.99	9.88	PASS
B2	10	Mid	18900	1880	16QAM	8.98	9.84	PASS
B2	10	High	19150	1905	QPSK	9.02	9.91	PASS
B2	10	High	19150	1905	64QAM	8.99	9.88	PASS
B2	10	High	19150	1905	16QAM	8.97	9.85	PASS



B2	15	Low	18675	1857.5	QPSK	13.46	14.89	PASS
B2	15	Low	18675	1857.5	64QAM	13.47	14.90	PASS
B2	15	Low	18675	1857.5	16QAM	13.46	14.84	PASS
B2	15	Mid	18900	1880	QPSK	13.54	14.91	PASS
B2	15	Mid	18900	1880	64QAM	13.49	14.97	PASS
B2	15	Mid	18900	1880	16QAM	13.49	15.08	PASS
B2	15	High	19125	1902.5	QPSK	13.45	14.86	PASS
B2	15	High	19125	1902.5	64QAM	13.49	14.91	PASS
B2	15	High	19125	1902.5	16QAM	13.48	14.93	PASS
B2	20	Low	18700	1860	QPSK	17.97	19.76	PASS
B2	20	Low	18700	1860	64QAM	17.96	19.64	PASS
B2	20	Low	18700	1860	16QAM	17.98	19.77	PASS
B2	20	Mid	18900	1880	QPSK	18.01	19.75	PASS
B2	20	Mid	18900	1880	64QAM	18.01	19.76	PASS
B2	20	Mid	18900	1880	16QAM	18.04	19.92	PASS
B2	20	High	19100	1900	QPSK	17.97	19.75	PASS
B2	20	High	19100	1900	64QAM	18.00	19.76	PASS
B2	20	High	19100	1900	16QAM	18.04	19.73	PASS



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B4	1.4	Low	19957	1710.7	QPSK	1.10	1.24	PASS
B4	1.4	Low	19957	1710.7	64QAM	1.10	1.24	PASS
B4	1.4	Low	19957	1710.7	16QAM	1.10	1.25	PASS
B4	1.4	Mid	20175	1732.5	QPSK	1.10	1.25	PASS
B4	1.4	Mid	20175	1732.5	64QAM	1.10	1.25	PASS
B4	1.4	Mid	20175	1732.5	16QAM	1.10	1.25	PASS
B4	1.4	High	20393	1754.3	QPSK	1.10	1.24	PASS
B4	1.4	High	20393	1754.3	64QAM	1.10	1.25	PASS
B4	1.4	High	20393	1754.3	16QAM	1.10	1.24	PASS
B4	3	Low	19965	1711.5	QPSK	2.71	3.05	PASS
B4	3	Low	19965	1711.5	64QAM	2.72	3.05	PASS
B4	3	Low	19965	1711.5	16QAM	2.71	3.06	PASS
B4	3	Mid	20175	1732.5	QPSK	2.72	3.04	PASS
B4	3	Mid	20175	1732.5	64QAM	2.72	3.06	PASS
B4	3	Mid	20175	1732.5	16QAM	2.72	3.07	PASS
B4	3	High	20385	1753.5	QPSK	2.71	3.05	PASS
B4	3	High	20385	1753.5	64QAM	2.72	3.06	PASS
B4	3	High	20385	1753.5	16QAM	2.71	3.04	PASS
B4	5	Low	19975	1712.5	QPSK	4.50	4.98	PASS
B4	5	Low	19975	1712.5	64QAM	4.49	4.98	PASS
B4	5	Low	19975	1712.5	16QAM	4.50	4.97	PASS
B4	5	Mid	20175	1732.5	QPSK	4.50	4.98	PASS
B4	5	Mid	20175	1732.5	64QAM	4.50	4.97	PASS
B4	5	Mid	20175	1732.5	16QAM	4.49	5.00	PASS
B4	5	High	20375	1752.5	QPSK	4.50	4.97	PASS
B4	5	High	20375	1752.5	64QAM	4.49	4.98	PASS
B4	5	High	20375	1752.5	16QAM	4.51	5.02	PASS
B4	10	Low	20000	1715	QPSK	9.02	9.88	PASS
B4	10	Low	20000	1715	64QAM	9.01	9.87	PASS
B4	10	Low	20000	1715	16QAM	8.98	9.90	PASS
B4	10	Mid	20175	1732.5	QPSK	9.00	9.79	PASS
B4	10	Mid	20175	1732.5	64QAM	8.98	9.87	PASS
B4	10	Mid	20175	1732.5	16QAM	8.97	9.83	PASS
B4	10	High	20350	1750	QPSK	9.03	9.90	PASS
B4	10	High	20350	1750	64QAM	9.01	9.86	PASS
B4	10	High	20350	1750	16QAM	8.98	9.88	PASS



B4	15	Low	20025	1717.5	QPSK	13.49	14.91	PASS
B4	15	Low	20025	1717.5	64QAM	13.51	14.93	PASS
B4	15	Low	20025	1717.5	16QAM	13.50	14.90	PASS
B4	15	Mid	20175	1732.5	QPSK	13.48	14.84	PASS
B4	15	Mid	20175	1732.5	64QAM	13.46	14.94	PASS
B4	15	Mid	20175	1732.5	16QAM	13.47	14.98	PASS
B4	15	High	20325	1747.5	QPSK	13.51	14.88	PASS
B4	15	High	20325	1747.5	64QAM	13.50	14.97	PASS
B4	15	High	20325	1747.5	16QAM	13.49	14.90	PASS
B4	20	Low	20050	1720	QPSK	18.01	19.75	PASS
B4	20	Low	20050	1720	64QAM	18.04	19.67	PASS
B4	20	Low	20050	1720	16QAM	18.02	19.66	PASS
B4	20	Mid	20175	1732.5	QPSK	17.97	19.65	PASS
B4	20	Mid	20175	1732.5	64QAM	17.96	19.55	PASS
B4	20	Mid	20175	1732.5	16QAM	17.96	19.80	PASS
B4	20	High	20300	1745	QPSK	18.01	19.85	PASS
B4	20	High	20300	1745	64QAM	18.02	19.70	PASS
B4	20	High	20300	1745	16QAM	18.00	19.81	PASS



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B5	1.4	Low	20407	824.7	QPSK	1.09	1.25	PASS
B5	1.4	Low	20407	824.7	64QAM	1.10	1.24	PASS
B5	1.4	Low	20407	824.7	16QAM	1.10	1.25	PASS
B5	1.4	Mid	20525	836.5	QPSK	1.10	1.24	PASS
B5	1.4	Mid	20525	836.5	64QAM	1.10	1.24	PASS
B5	1.4	Mid	20525	836.5	16QAM	1.10	1.24	PASS
B5	1.4	High	20643	848.3	QPSK	1.10	1.25	PASS
B5	1.4	High	20643	848.3	64QAM	1.10	1.25	PASS
B5	1.4	High	20643	848.3	16QAM	1.10	1.25	PASS
B5	3	Low	20415	825.5	QPSK	2.71	3.05	PASS
B5	3	Low	20415	825.5	64QAM	2.72	3.05	PASS
B5	3	Low	20415	825.5	16QAM	2.71	3.07	PASS
B5	3	Mid	20525	836.5	QPSK	2.72	3.07	PASS
B5	3	Mid	20525	836.5	64QAM	2.72	3.07	PASS
B5	3	Mid	20525	836.5	16QAM	2.72	3.04	PASS
B5	3	High	20635	847.5	QPSK	2.71	3.04	PASS
B5	3	High	20635	847.5	64QAM	2.72	3.04	PASS
B5	3	High	20635	847.5	16QAM	2.71	3.05	PASS
B5	5	Low	20425	826.5	QPSK	4.50	4.98	PASS
B5	5	Low	20425	826.5	64QAM	4.49	4.95	PASS
B5	5	Low	20425	826.5	16QAM	4.49	4.96	PASS
B5	5	Mid	20525	836.5	QPSK	4.50	4.99	PASS
B5	5	Mid	20525	836.5	64QAM	4.50	4.95	PASS
B5	5	Mid	20525	836.5	16QAM	4.50	5.00	PASS
B5	5	High	20625	846.5	QPSK	4.50	4.98	PASS
B5	5	High	20625	846.5	64QAM	4.49	4.97	PASS
B5	5	High	20625	846.5	16QAM	4.50	4.98	PASS
B5	10	Low	20450	829	QPSK	9.01	9.88	PASS
B5	10	Low	20450	829	64QAM	8.98	9.81	PASS
B5	10	Low	20450	829	16QAM	8.98	9.78	PASS
B5	10	Mid	20525	836.5	QPSK	9.01	9.84	PASS
B5	10	Mid	20525	836.5	64QAM	9.01	9.83	PASS
B5	10	Mid	20525	836.5	16QAM	8.99	9.85	PASS
B5	10	High	20600	844	QPSK	9.01	9.92	PASS
B5	10	High	20600	844	64QAM	8.99	9.88	PASS
B5	10	High	20600	844	16QAM	8.98	9.86	PASS



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B7	5	Low	20775	2502.5	QPSK	4.50	4.96	PASS
B7	5	Low	20775	2502.5	64QAM	4.48	4.96	PASS
B7	5	Low	20775	2502.5	16QAM	4.50	4.97	PASS
B7	5	Mid	21100	2535	QPSK	4.50	4.97	PASS
B7	5	Mid	21100	2535	64QAM	4.50	4.96	PASS
B7	5	Mid	21100	2535	16QAM	4.50	4.95	PASS
B7	5	High	21425	2567.5	QPSK	4.50	4.95	PASS
B7	5	High	21425	2567.5	64QAM	4.49	4.97	PASS
B7	5	High	21425	2567.5	16QAM	4.50	4.99	PASS
B7	10	Low	20800	2505	QPSK	9.00	9.92	PASS
B7	10	Low	20800	2505	64QAM	9.00	9.89	PASS
B7	10	Low	20800	2505	16QAM	8.98	9.79	PASS
B7	10	Mid	21100	2535	QPSK	9.00	9.90	PASS
B7	10	Mid	21100	2535	64QAM	8.99	9.90	PASS
B7	10	Mid	21100	2535	16QAM	8.98	9.88	PASS
B7	10	High	21400	2565	QPSK	9.02	9.95	PASS
B7	10	High	21400	2565	64QAM	8.99	9.85	PASS
B7	10	High	21400	2565	16QAM	8.97	9.87	PASS
B7	15	Low	20825	2507.5	QPSK	13.48	15.01	PASS
B7	15	Low	20825	2507.5	64QAM	13.48	14.97	PASS
B7	15	Low	20825	2507.5	16QAM	13.49	15.02	PASS
B7	15	Mid	21100	2535	QPSK	13.49	14.88	PASS
B7	15	Mid	21100	2535	64QAM	13.49	14.98	PASS
B7	15	Mid	21100	2535	16QAM	13.50	14.90	PASS
B7	15	High	21375	2562.5	QPSK	13.48	14.73	PASS
B7	15	High	21375	2562.5	64QAM	13.50	15.02	PASS
B7	15	High	21375	2562.5	16QAM	13.49	15.01	PASS
B7	20	Low	20850	2510	QPSK	18.02	19.79	PASS
B7	20	Low	20850	2510	64QAM	17.99	19.71	PASS
B7	20	Low	20850	2510	16QAM	18.01	19.76	PASS
B7	20	Mid	21100	2535	QPSK	18.00	19.76	PASS
B7	20	Mid	21100	2535	64QAM	17.99	19.82	PASS
B7	20	Mid	21100	2535	16QAM	17.99	19.69	PASS
B7	20	High	21350	2560	QPSK	18.01	19.75	PASS
B7	20	High	21350	2560	64QAM	18.00	19.70	PASS
B7	20	High	21350	2560	16QAM	18.00	19.80	PASS



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B38	5	Low	37775	2572.5	QPSK	4.50	4.97	PASS
B38	5	Low	37775	2572.5	64QAM	4.49	4.94	PASS
B38	5	Low	37775	2572.5	16QAM	4.51	5.02	PASS
B38	5	Mid	38000	2595	QPSK	4.50	5.01	PASS
B38	5	Mid	38000	2595	64QAM	4.47	4.94	PASS
B38	5	Mid	38000	2595	16QAM	4.50	5.04	PASS
B38	5	High	38225	2617.5	QPSK	4.49	5.04	PASS
B38	5	High	38225	2617.5	64QAM	4.48	4.92	PASS
B38	5	High	38225	2617.5	16QAM	4.51	4.99	PASS
B38	10	Low	37800	2575	QPSK	9.00	9.80	PASS
B38	10	Low	37800	2575	64QAM	9.00	9.80	PASS
B38	10	Low	37800	2575	16QAM	8.97	9.89	PASS
B38	10	Mid	38000	2595	QPSK	8.98	9.85	PASS
B38	10	Mid	38000	2595	64QAM	8.97	9.81	PASS
B38	10	Mid	38000	2595	16QAM	8.96	9.89	PASS
B38	10	High	38200	2615	QPSK	8.98	9.82	PASS
B38	10	High	38200	2615	64QAM	8.98	9.87	PASS
B38	10	High	38200	2615	16QAM	8.97	9.90	PASS
B38	15	Low	37825	2577.5	QPSK	13.47	14.73	PASS
B38	15	Low	37825	2577.5	64QAM	13.50	14.74	PASS
B38	15	Low	37825	2577.5	16QAM	13.47	14.71	PASS
B38	15	Mid	38000	2595	QPSK	13.49	14.93	PASS
B38	15	Mid	38000	2595	64QAM	13.49	14.99	PASS
B38	15	Mid	38000	2595	16QAM	13.49	14.79	PASS
B38	15	High	38175	2612.5	QPSK	13.47	14.86	PASS
B38	15	High	38175	2612.5	64QAM	13.47	14.86	PASS
B38	15	High	38175	2612.5	16QAM	13.48	14.79	PASS
B38	20	Low	37850	2580	QPSK	18.00	19.73	PASS
B38	20	Low	37850	2580	64QAM	17.98	19.77	PASS
B38	20	Low	37850	2580	16QAM	18.01	19.85	PASS
B38	20	Mid	38000	2595	QPSK	17.99	19.77	PASS
B38	20	Mid	38000	2595	64QAM	17.95	19.73	PASS
B38	20	Mid	38000	2595	16QAM	17.96	19.57	PASS
B38	20	High	38150	2610	QPSK	17.97	19.64	PASS
B38	20	High	38150	2610	64QAM	17.98	19.63	PASS
B38	20	High	38150	2610	16QAM	18.00	19.70	PASS



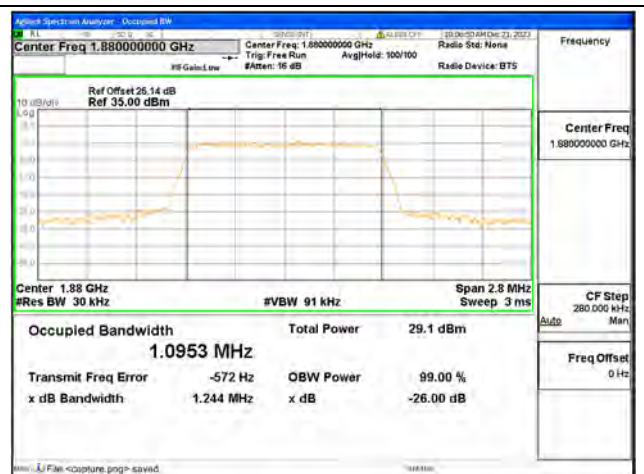
B2 / 1.4MHz / QPSK/ Low CH



B2 / 1.4MHz / 64QAM/ Low CH



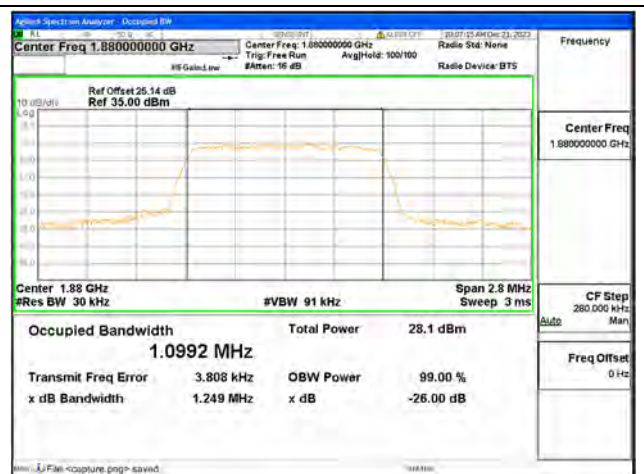
B2 / 1.4MHz / 16QAM/ Low CH



B2 / 1.4MHz / QPSK/ Mid CH



B2 / 1.4MHz / 64QAM/ Mid CH



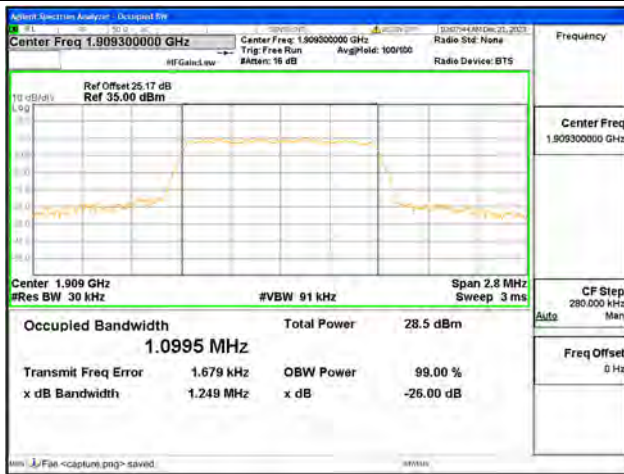
B2 / 1.4MHz / 16QAM/ Mid CH



B2 / 1.4MHz / QPSK/ High CH



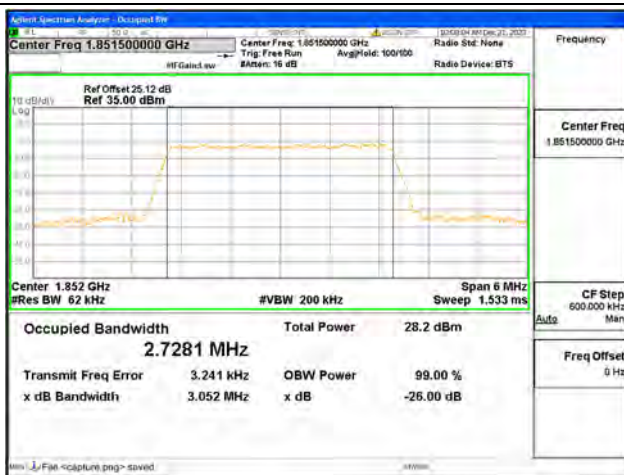
B2 / 1.4MHz / 64QAM/ High CH



B2 / 1.4MHz / 16QAM/ High CH



B2 / 3MHz / QPSK/ Low CH



B2 / 3MHz / 64QAM/ Low CH



B2 / 3MHz / 16QAM/ Low CH