



REPORT No.: SZ23120229W02

TEST REPORT

APPLICANT : Reliance Communications LLC

PRODUCT NAME : Orbic Joy 2

MODEL NAME : RC656V

BRAND NAME : Orbic

FCC ID : 2ABGH-RC656V

STANDARD(S) : 47 CFR Part 2
47 CFR Part 22, Subpart H
47 CFR Part 24, Subpart E
47 CFR Part 27, Subpart F&H&L

RECEIPT DATE : 2024-02-29

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Change History		
Version	Date	Reason for change
1.0	2024-05-30	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Reliance Communications LLC
Applicant Address:	555 Wireless Blvd. Hauppauge, NY 11788, USA
Manufacturer:	SHENZHEN CHINO-E COMMUNICATION CO., LTD
Manufacturer Address:	No. 503, 505, 5th Floor, Hengjiang Mansion, Intersection of Bulong Road and Renmin Road, Longhua New District, Shenzhen, China.

1.2. Equipment Under Test (EUT) Description

Product Name:	Orbic Joy 2	
Sample No.:	1#	
Hardware Version:	V1.0	
Software Version:	RC656V_v1.0.43_BVZTF	
Modulation Type:	QPSK, 16QAM, 64QAM	
Operation Band:	Band 2 / 4 / 5 / 12 / 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 12	Tx: 699MHz–716MHz
		Rx: 729MHz–746MHz
	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



Channel Bandwidth:	LTE Band 12	1.4MHz, 3 MHz, 5 MHz, 10MHz
	LTE Band 13	5 MHz, 10MHz
	LTE Band 66	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
Antenna Type:	PIFA Antenna	
Antenna Gain:	Top Antenna	
	LTE Band 2	0.54dBi
	LTE Band 4	0.03dBi
	LTE Band 5	-3.05dBi
	LTE Band 12	-2.85dBi
	LTE Band 13	-1.67dBi
	LTE Band 66	0.03dBi
	Bottom Antenna	
	LTE Band 2	0.14dBi
	LTE Band 4	-0.35dBi
	LTE Band 5	-2.04dBi
	LTE Band 12	-2.91dBi
	LTE Band 13	-1.40dBi
	LTE Band 66	0.12dBi
Accessory Information:	Battery	
	Brand Name:	Orbic
	Model No.:	BTE-5005
	Serial No.:	N/A
	Capacity:	5000mAh
	Rated Voltage:	3.87V
	Charge Limit:	4.45V
	Manufacturer:	Shenzhen Aerospace Electronic Co.,Ltd.
	AC Adapter	
	Brand Name:	Orbic
	Model No.:	OACH023US1
	Serial No.:	N/A
	Rated Output:	5V=3A, 9V=2A, 12V=1.5A
	Rated Input:	100-240V~50/60Hz,0.5A
	Manufacturer 1:	WATAI ELECTRONICS PRIVATE LIMITED
	Manufacturer 2:	KANGYIN ELECTRONIC TECHNOLOGY CO.,LTD



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Accessory Information:	USB Cable	
	Model No.:	HX-YLMK-06
	Manufacturer:	HUIZHOU WASHIN ELECTRONICS CO.,LTD

Note 1: This is a variant report of original report (Report No.: SZ24020168W02, FCC ID: 2ABGH-RC656L). Based on the similarity between before, changed model name, software version, FCC ID, enable LTE B13 and disable LTE 17, the others are the same as before.

Note 2: 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	0.215	0.175	0.170	17M9G7D	17M9W7D	17M9W7D
15	0.223	0.177	0.175	13M4G7D	13M4W7D	13M4W7D
10	0.223	0.184	0.182	8M94G7D	8M93W7D	8M94W7D
5	0.227	0.183	0.179	4M48G7D	4M48W7D	4M49W7D
3	0.225	0.178	0.182	2M70G7D	2M71W7D	2M71W7D
1.4	0.226	0.183	0.182	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	0.194	0.155	0.156	17M9G7D	17M9W7D	17M9W7D
15	0.191	0.153	0.155	13M4G7D	13M4W7D	13M4W7D
10	0.192	0.153	0.155	8M95G7D	8M92W7D	8M94W7D
5	0.189	0.154	0.156	4M48G7D	4M48W7D	4M49W7D
3	0.190	0.153	0.155	2M70G7D	2M71W7D	2M71W7D
1.4	0.190	0.153	0.155	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	0.078	0.064	0.062	8M95G7D	8M93W7D	8M95W7D
5	0.078	0.064	0.061	4M48G7D	4M48W7D	4M48W7D
3	0.077	0.064	0.061	2M71G7D	2M71W7D	2M70W7D
1.4	0.077	0.064	0.062	1M10G7D	1M10W7D	1M10W7D
LTE Band 12	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.066	0.055	0.052	8M96G7D	8M95W7D	8M96W7D
5	0.066	0.055	0.052	4M48G7D	4M49W7D	4M49W7D
3	0.063	0.052	0.051	2M70G7D	2M70W7D	2M70W7D
1.4	0.062	0.051	0.050	1M10G7D	1M10W7D	1M10W7D
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	0.095	0.076	0.074	8M94G7D	8M92W7D	8M94W7D
5	0.093	0.076	0.074	4M48G7D	4M48W7D	4M48W7D



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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	0.219	0.173	0.167	17M9G7D	17M9W7D	17M9W7D
15	0.217	0.170	0.165	13M4G7D	13M4W7D	13M4W7D
10	0.217	0.172	0.165	8M96G7D	8M94W7D	8M94W7D
5	0.218	0.171	0.164	4M47G7D	4M48W7D	4M48W7D
3	0.218	0.172	0.163	2M70G7D	2M71W7D	2M71W7D
1.4	0.216	0.170	0.164	1M10G7D	1M10W7D	1M10W7D



1.4. Test Standards and Results

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

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

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

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046 22.913(a)(2) 24.232(c) 27.50(b)(10) 27.50(c)(10) 27.50(d)(4)	Transmitter Conducted Output Power and E.R.P./E.I.R.P.	Apr. 10, 2024	Zheng Jianhua Gan Jing	PASS	No deviation
2.1049	Occupied Bandwidth	Apr. 10, 2024	Gan Jing	PASS	No deviation
2.1055 22.355 24.235 27.54	Frequency Stability	Apr. 10, 2024	Gan Jing	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Apr. 10, 2024	Gan Jing	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(c)(2) 27.53(g) 27.53(h)	Conducted Spurious Emissions	Apr. 10, 2024	Gan Jing	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(c)(2)	Band Edge	Apr. 10, 2024	Gan Jing	PASS	No deviation



27.53(g) 27.53(h)					
2.1053 22.917(a) 24.238(a) 27.53(c)(2) 27.53(g) 27.53(h)	Radiated Spurious Emissions	Apr. 14 to 16, 2024	Li Hanbin	PASS	No deviation

Note 1: The test results of these test items in this report refer to the test report (Report No.: SZ24020168W02).

Note 2: The tests were performed according to the method of measurements prescribed in KDB 971168 D01 v03 and ANSI/TIA-603-E-2016.

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% confidence intervals.

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 F&H&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.

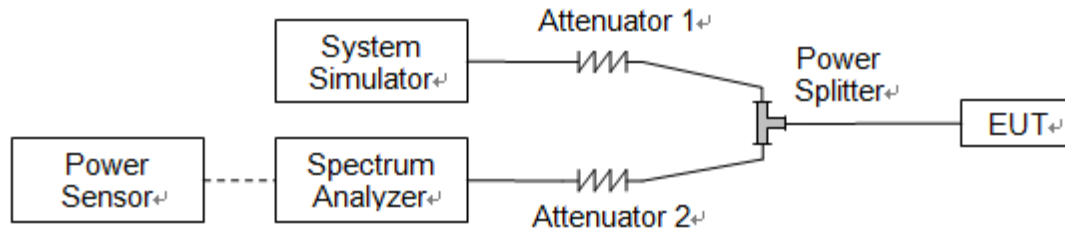
According to FCC section 27.50 (d)(4) for LTE Band 4/66, Fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat E.I.R.P.

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 (c)(10) for LTE Band 12, Portable stations (hand-held devices) operating in the 704-716MHz band are limited to 3watts E.R.P.

According to FCC section 27.50 (b)(10) for LTE Band 13, Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts E.R.P.

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.

$E.I.R.P. (dBm) = \text{Conducted Output Power (dBm)} + \text{Antenna Gain (dBi)}$

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



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	22.93	23.18	23.02
20	QPSK	1	49	22.91	22.98	22.79
20	QPSK	1	99	22.75	22.91	22.77
20	QPSK	50	0	22.02	22.05	22.03
20	QPSK	50	24	22.00	22.04	21.91
20	QPSK	50	50	21.96	22.01	21.96
20	QPSK	100	0	21.93	22.03	21.90
20	16QAM	1	0	22.19	22.28	22.12
20	16QAM	1	49	22.13	22.19	22.18
20	16QAM	1	99	22.02	22.04	21.96
20	16QAM	50	0	21.04	21.12	21.07
20	16QAM	50	24	21.01	21.10	21.05
20	16QAM	50	50	20.88	20.95	20.87
20	16QAM	100	0	20.99	21.11	20.96
20	64QAM	1	0	22.04	22.16	22.05
20	64QAM	1	49	21.89	22.08	21.97
20	64QAM	1	99	21.99	22.00	21.85
20	64QAM	50	0	21.00	21.09	20.97
20	64QAM	50	24	20.97	21.07	20.90
20	64QAM	50	50	20.75	20.95	20.91
20	64QAM	100	0	20.83	21.02	20.85



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	23.21	23.34	23.31
15	QPSK	1	37	23.24	23.30	23.12
15	QPSK	1	74	23.05	23.26	23.06
15	QPSK	36	0	22.30	22.36	22.34
15	QPSK	36	20	22.29	22.41	22.27
15	QPSK	36	39	22.33	22.34	22.26
15	QPSK	75	0	22.28	22.36	22.23
15	16QAM	1	0	22.26	22.34	22.21
15	16QAM	1	37	22.23	22.31	22.29
15	16QAM	1	74	22.15	22.15	22.03
15	16QAM	36	0	21.10	21.26	21.20
15	16QAM	36	20	21.11	21.25	21.11
15	16QAM	36	39	20.99	21.05	20.97
15	16QAM	75	0	21.06	21.18	21.07
15	64QAM	1	0	22.10	22.29	22.19
15	64QAM	1	37	22.00	22.22	22.09
15	64QAM	1	74	22.13	22.08	21.99
15	64QAM	36	0	21.09	21.18	21.06
15	64QAM	36	20	21.07	21.16	20.98
15	64QAM	36	39	20.85	21.06	20.98
15	64QAM	75	0	20.94	21.10	20.96



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	23.30	23.35	23.32
10	QPSK	1	25	23.20	23.29	23.11
10	QPSK	1	49	23.05	23.22	23.13
10	QPSK	25	0	22.30	22.35	22.33
10	QPSK	25	12	22.30	22.41	22.26
10	QPSK	25	25	22.25	22.30	22.26
10	QPSK	50	0	22.29	22.37	22.22
10	16QAM	1	0	22.29	22.38	22.41
10	16QAM	1	25	22.41	22.48	22.50
10	16QAM	1	49	22.38	22.37	22.32
10	16QAM	25	0	21.39	21.46	21.36
10	16QAM	25	12	21.33	21.46	21.34
10	16QAM	25	25	21.20	21.23	21.15
10	16QAM	50	0	21.36	21.46	21.31
10	64QAM	1	0	22.36	22.47	22.35
10	64QAM	1	25	22.24	22.36	22.31
10	64QAM	1	49	22.34	22.37	22.15
10	64QAM	25	0	21.30	21.41	21.34
10	64QAM	25	12	21.34	21.38	21.21
10	64QAM	25	25	21.08	21.28	21.19
10	64QAM	50	0	21.12	21.34	21.21



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	23.23	23.42	23.33
5	QPSK	1	12	23.21	23.32	23.09
5	QPSK	1	24	23.11	23.26	23.12
5	QPSK	12	0	22.34	22.34	22.40
5	QPSK	12	7	22.32	22.34	22.23
5	QPSK	12	13	22.30	22.35	22.26
5	QPSK	25	0	22.23	22.35	22.20
5	16QAM	1	0	22.32	22.36	22.48
5	16QAM	1	12	22.21	22.33	22.48
5	16QAM	1	24	22.17	22.13	22.26
5	16QAM	12	0	21.17	21.21	21.40
5	16QAM	12	7	21.10	21.22	21.39
5	16QAM	12	13	20.97	21.02	21.21
5	16QAM	25	0	21.10	21.24	21.28
5	64QAM	1	0	22.19	22.31	22.38
5	64QAM	1	12	22.23	22.38	22.28
5	64QAM	1	24	22.30	22.35	22.20
5	64QAM	12	0	21.30	21.43	21.28
5	64QAM	12	7	21.30	21.38	21.25
5	64QAM	12	13	21.06	21.28	21.19
5	64QAM	25	0	21.14	21.34	21.19



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	23.27	23.35	23.38
3	QPSK	1	8	23.20	23.31	23.10
3	QPSK	1	14	23.06	23.25	23.12
3	QPSK	8	0	22.36	22.38	22.35
3	QPSK	8	4	22.36	22.40	22.21
3	QPSK	8	7	22.24	22.38	22.26
3	QPSK	15	0	22.28	22.37	22.27
3	16QAM	1	0	22.29	22.36	22.21
3	16QAM	1	8	22.28	22.26	22.32
3	16QAM	1	14	22.30	22.35	22.32
3	16QAM	8	0	21.32	21.43	21.40
3	16QAM	8	4	21.35	21.39	21.34
3	16QAM	8	7	21.22	21.26	21.24
3	16QAM	15	0	21.27	21.44	21.31
3	64QAM	1	0	22.41	22.45	22.33
3	64QAM	1	8	22.17	22.44	22.29
3	64QAM	1	14	22.35	22.31	22.13
3	64QAM	8	0	21.37	21.39	21.27
3	64QAM	8	4	21.30	21.44	21.22
3	64QAM	8	7	21.08	21.25	21.22
3	64QAM	15	0	21.19	21.38	21.20



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	23.24	23.34	23.30
1.4	QPSK	1	3	23.28	23.33	23.11
1.4	QPSK	1	5	23.09	23.27	23.11
1.4	QPSK	3	0	23.34	23.40	23.34
1.4	QPSK	3	1	23.36	23.41	23.19
1.4	QPSK	3	3	23.31	23.29	23.25
1.4	QPSK	6	0	22.25	22.36	22.22
1.4	16QAM	1	0	22.34	22.43	22.44
1.4	16QAM	1	3	22.25	22.34	22.49
1.4	16QAM	1	5	22.35	22.33	22.25
1.4	16QAM	3	0	22.39	22.46	22.44
1.4	16QAM	3	1	22.30	22.40	22.37
1.4	16QAM	3	3	22.25	22.31	22.20
1.4	16QAM	6	0	21.35	21.45	21.30
1.4	64QAM	1	0	22.41	22.46	22.34
1.4	64QAM	1	3	22.18	22.44	22.26
1.4	64QAM	1	5	22.32	22.28	22.14
1.4	64QAM	3	0	22.31	22.39	22.33
1.4	64QAM	3	1	22.31	22.38	22.18
1.4	64QAM	3	3	22.04	22.32	22.23
1.4	64QAM	6	0	21.14	21.38	21.18



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	23.18	23.22	23.14
20	QPSK	1	49	23.02	23.10	23.03
20	QPSK	1	99	23.07	23.14	23.05
20	QPSK	50	0	22.10	22.12	22.09
20	QPSK	50	24	22.09	22.10	22.00
20	QPSK	50	50	22.00	22.05	21.95
20	QPSK	100	0	22.02	22.07	22.04
20	16QAM	1	0	22.19	22.25	22.24
20	16QAM	1	49	22.14	22.21	22.16
20	16QAM	1	99	22.15	22.18	22.16
20	16QAM	50	0	20.92	21.01	20.96
20	16QAM	50	24	20.96	21.05	20.95
20	16QAM	50	50	20.99	21.07	20.99
20	16QAM	100	0	21.01	21.04	21.02
20	64QAM	1	0	22.26	22.28	22.22
20	64QAM	1	49	22.20	22.22	22.16
20	64QAM	1	99	22.25	22.26	22.22
20	64QAM	50	0	20.94	21.02	21.00
20	64QAM	50	24	20.90	21.00	20.96
20	64QAM	50	50	21.02	21.06	20.96
20	64QAM	100	0	21.04	21.12	21.05



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	23.16	23.15	23.07
15	QPSK	1	37	22.95	23.02	22.94
15	QPSK	1	74	23.02	23.04	23.02
15	QPSK	36	0	22.08	22.09	22.00
15	QPSK	36	20	22.02	22.07	21.94
15	QPSK	36	39	21.95	22.01	21.85
15	QPSK	75	0	21.95	22.04	22.00
15	16QAM	1	0	22.17	22.20	22.15
15	16QAM	1	37	22.07	22.15	22.07
15	16QAM	1	74	22.10	22.11	22.14
15	16QAM	36	0	20.87	20.99	20.89
15	16QAM	36	20	20.89	20.97	20.91
15	16QAM	36	39	20.96	20.97	20.95
15	16QAM	75	0	20.99	20.97	21.00
15	64QAM	1	0	22.22	22.25	22.17
15	64QAM	1	37	22.10	22.18	22.12
15	64QAM	1	74	22.21	22.25	22.14
15	64QAM	36	0	20.91	20.94	20.94
15	64QAM	36	20	20.84	20.97	20.86
15	64QAM	36	39	20.97	20.96	20.92
15	64QAM	75	0	20.95	21.04	20.99



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	23.13	23.18	23.11
10	QPSK	1	25	22.94	23.04	22.93
10	QPSK	1	49	22.98	23.05	23.04
10	QPSK	25	0	22.07	22.04	22.01
10	QPSK	25	12	21.99	22.07	21.94
10	QPSK	25	25	21.90	22.03	21.89
10	QPSK	50	0	21.96	21.97	22.03
10	16QAM	1	0	22.15	22.16	22.19
10	16QAM	1	25	22.05	22.17	22.15
10	16QAM	1	49	22.10	22.09	22.09
10	16QAM	25	0	20.83	21.00	20.89
10	16QAM	25	12	20.91	20.95	20.89
10	16QAM	25	25	20.89	21.04	20.92
10	16QAM	50	0	20.99	21.01	20.94
10	64QAM	1	0	22.19	22.21	22.21
10	64QAM	1	25	22.11	22.12	22.10
10	64QAM	1	49	22.24	22.18	22.18
10	64QAM	25	0	20.86	20.99	20.93
10	64QAM	25	12	20.87	20.92	20.89
10	64QAM	25	25	20.97	20.99	20.87
10	64QAM	50	0	20.96	21.05	20.98



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	23.11	23.12	23.06
5	QPSK	1	12	22.99	23.09	23.01
5	QPSK	1	24	22.99	23.10	22.99
5	QPSK	12	0	22.02	22.10	22.02
5	QPSK	12	7	22.04	22.05	21.96
5	QPSK	12	13	21.91	21.97	21.88
5	QPSK	25	0	21.93	22.00	22.01
5	16QAM	1	0	22.09	22.16	22.22
5	16QAM	1	12	22.06	22.12	22.10
5	16QAM	1	24	22.07	22.08	22.11
5	16QAM	12	0	20.86	20.91	20.89
5	16QAM	12	7	20.87	21.01	20.91
5	16QAM	12	13	20.92	21.05	20.89
5	16QAM	25	0	20.99	20.96	20.93
5	64QAM	1	0	22.22	22.27	22.13
5	64QAM	1	12	22.12	22.14	22.07
5	64QAM	1	24	22.19	22.24	22.20
5	64QAM	12	0	20.89	20.98	20.98
5	64QAM	12	7	20.84	20.96	20.91
5	64QAM	12	13	20.96	21.04	20.89
5	64QAM	25	0	21.00	21.02	20.97



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	23.13	23.12	23.07
3	QPSK	1	8	22.99	23.01	22.95
3	QPSK	1	14	23.05	23.05	22.97
3	QPSK	8	0	22.09	22.07	22.05
3	QPSK	8	4	22.08	22.03	21.99
3	QPSK	8	7	21.92	22.02	21.87
3	QPSK	15	0	21.98	22.06	22.00
3	16QAM	1	0	22.15	22.19	22.18
3	16QAM	1	8	22.05	22.16	22.07
3	16QAM	1	14	22.11	22.10	22.07
3	16QAM	8	0	20.91	20.95	20.94
3	16QAM	8	4	20.94	21.03	20.94
3	16QAM	8	7	20.96	21.04	20.91
3	16QAM	15	0	20.94	21.01	21.01
3	64QAM	1	0	22.17	22.24	22.13
3	64QAM	1	8	22.12	22.12	22.12
3	64QAM	1	14	22.23	22.22	22.15
3	64QAM	8	0	20.92	20.95	20.94
3	64QAM	8	4	20.89	20.94	20.92
3	64QAM	8	7	21.00	21.03	20.87
3	64QAM	15	0	21.01	21.10	21.00



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	23.08	23.14	23.12
1.4	QPSK	1	3	22.94	23.09	22.93
1.4	QPSK	1	5	23.01	23.11	22.96
1.4	QPSK	3	0	23.02	23.03	23.03
1.4	QPSK	3	1	23.01	23.09	22.91
1.4	QPSK	3	3	22.92	23.02	22.87
1.4	QPSK	6	0	21.97	22.00	22.01
1.4	16QAM	1	0	22.12	22.15	22.20
1.4	16QAM	1	3	22.12	22.14	22.07
1.4	16QAM	1	5	22.09	22.14	22.11
1.4	16QAM	3	0	21.87	21.94	21.88
1.4	16QAM	3	1	21.92	22.01	21.90
1.4	16QAM	3	3	21.92	22.06	21.97
1.4	16QAM	6	0	20.94	20.98	20.92
1.4	64QAM	1	0	22.21	22.25	22.16
1.4	64QAM	1	3	22.15	22.18	22.12
1.4	64QAM	1	5	22.19	22.19	22.16
1.4	64QAM	3	0	21.84	21.95	21.90
1.4	64QAM	3	1	21.82	21.92	21.86
1.4	64QAM	3	3	21.99	22.00	21.91
1.4	64QAM	6	0	21.02	21.11	20.98



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	23.08	23.13	23.10
10	QPSK	1	25	22.99	23.04	22.94
10	QPSK	1	49	23.05	23.11	23.07
10	QPSK	25	0	21.99	22.05	22.01
10	QPSK	25	12	21.85	21.97	21.90
10	QPSK	25	25	21.89	22.01	21.87
10	QPSK	50	0	21.94	22.00	21.92
10	16QAM	1	0	22.22	22.28	22.20
10	16QAM	1	25	22.17	22.25	22.20
10	16QAM	1	49	22.20	22.21	22.15
10	16QAM	25	0	21.01	21.08	21.01
10	16QAM	25	12	20.91	20.99	20.90
10	16QAM	25	25	20.96	21.01	20.98
10	16QAM	50	0	20.94	21.04	20.94
10	64QAM	1	0	22.07	22.09	21.99
10	64QAM	1	25	21.95	22.05	21.97
10	64QAM	1	49	22.00	22.01	21.97
10	64QAM	25	0	20.94	20.99	20.92
10	64QAM	25	12	20.92	20.96	20.86
10	64QAM	25	25	20.91	20.95	20.91
10	64QAM	50	0	20.90	20.92	20.85



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	23.01	23.11	23.05
5	QPSK	1	12	22.93	23.01	22.92
5	QPSK	1	24	23.02	23.06	23.03
5	QPSK	12	0	21.94	21.97	21.99
5	QPSK	12	7	21.79	21.96	21.83
5	QPSK	12	13	21.79	21.92	21.81
5	QPSK	25	0	21.86	21.97	21.84
5	16QAM	1	0	22.13	22.26	22.18
5	16QAM	1	12	22.14	22.21	22.14
5	16QAM	1	24	22.10	22.20	22.10
5	16QAM	12	0	20.94	21.04	20.92
5	16QAM	12	7	20.88	20.89	20.84
5	16QAM	12	13	20.91	20.95	20.97
5	16QAM	25	0	20.91	21.03	20.84
5	64QAM	1	0	22.04	22.04	21.92
5	64QAM	1	12	21.86	21.97	21.95
5	64QAM	1	24	21.95	21.95	21.94
5	64QAM	12	0	20.84	20.89	20.91
5	64QAM	12	7	20.82	20.95	20.78
5	64QAM	12	13	20.88	20.91	20.83
5	64QAM	25	0	20.87	20.88	20.78



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	23.05	23.06	23.01
3	QPSK	1	8	22.89	23.03	22.90
3	QPSK	1	14	23.03	23.04	23.02
3	QPSK	8	0	21.97	21.95	21.92
3	QPSK	8	4	21.79	21.96	21.80
3	QPSK	8	7	21.87	21.93	21.86
3	QPSK	15	0	21.93	21.94	21.85
3	16QAM	1	0	22.16	22.23	22.10
3	16QAM	1	8	22.10	22.16	22.12
3	16QAM	1	14	22.13	22.18	22.14
3	16QAM	8	0	20.99	21.00	20.95
3	16QAM	8	4	20.83	20.89	20.80
3	16QAM	8	7	20.89	20.99	20.95
3	16QAM	15	0	20.87	20.99	20.86
3	64QAM	1	0	22.05	21.99	21.92
3	64QAM	1	8	21.88	22.02	21.92
3	64QAM	1	14	21.93	21.99	21.94
3	64QAM	8	0	20.88	20.91	20.89
3	64QAM	8	4	20.84	20.86	20.80
3	64QAM	8	7	20.87	20.91	20.85
3	64QAM	15	0	20.83	20.88	20.79



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	23.01	23.06	23.07
1.4	QPSK	1	3	22.95	22.96	22.86
1.4	QPSK	1	5	22.97	23.08	22.98
1.4	QPSK	3	0	22.90	23.01	22.91
1.4	QPSK	3	1	22.81	22.96	22.80
1.4	QPSK	3	3	22.81	22.93	22.84
1.4	QPSK	6	0	21.91	21.97	21.89
1.4	16QAM	1	0	22.21	22.24	22.18
1.4	16QAM	1	3	22.14	22.18	22.15
1.4	16QAM	1	5	22.13	22.19	22.10
1.4	16QAM	3	0	22.00	22.06	21.93
1.4	16QAM	3	1	21.88	21.98	21.85
1.4	16QAM	3	3	21.93	21.92	21.93
1.4	16QAM	6	0	20.89	20.96	20.85
1.4	64QAM	1	0	21.98	22.08	21.97
1.4	64QAM	1	3	21.90	22.04	21.87
1.4	64QAM	1	5	21.93	21.91	21.90
1.4	64QAM	3	0	21.88	21.91	21.86
1.4	64QAM	3	1	21.90	21.88	21.80
1.4	64QAM	3	3	21.81	21.86	21.90
1.4	64QAM	6	0	20.83	20.91	20.79



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23060	23095	23130
Frequency (MHz)				704	707.5	711
10	QPSK	1	0	23.21	23.25	23.18
10	QPSK	1	25	23.18	23.20	23.14
10	QPSK	1	49	23.11	23.19	23.12
10	QPSK	25	0	22.23	22.24	22.14
10	QPSK	25	12	22.19	22.21	22.15
10	QPSK	25	25	22.15	22.19	22.12
10	QPSK	50	0	22.11	22.20	22.14
10	16QAM	1	0	22.34	22.44	22.34
10	16QAM	1	25	22.22	22.31	22.27
10	16QAM	1	49	22.39	22.42	22.35
10	16QAM	25	0	21.09	21.16	21.14
10	16QAM	25	12	21.04	21.13	21.07
10	16QAM	25	25	21.09	21.19	21.09
10	16QAM	50	0	21.15	21.25	21.16
10	64QAM	1	0	22.19	22.24	22.15
10	64QAM	1	25	22.15	22.22	22.15
10	64QAM	1	49	22.17	22.26	22.23
10	64QAM	25	0	21.15	21.17	21.11
10	64QAM	25	12	21.18	21.21	21.17
10	64QAM	25	25	21.15	21.23	21.19
10	64QAM	50	0	21.10	21.19	21.09



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	23.20	23.23	23.21
5	QPSK	1	12	23.19	23.15	23.09
5	QPSK	1	24	23.11	23.19	23.09
5	QPSK	12	0	22.18	22.25	22.13
5	QPSK	12	7	22.15	22.21	22.15
5	QPSK	12	13	22.18	22.17	22.07
5	QPSK	25	0	22.07	22.22	22.17
5	16QAM	1	0	22.36	22.46	22.34
5	16QAM	1	12	22.25	22.26	22.30
5	16QAM	1	24	22.42	22.38	22.38
5	16QAM	12	0	21.07	21.19	21.16
5	16QAM	12	7	21.07	21.08	21.10
5	16QAM	12	13	21.08	21.19	21.03
5	16QAM	25	0	21.12	21.23	21.15
5	64QAM	1	0	22.17	22.26	22.11
5	64QAM	1	12	22.18	22.17	22.10
5	64QAM	1	24	22.15	22.24	22.20
5	64QAM	12	0	21.12	21.11	21.05
5	64QAM	12	7	21.18	21.17	21.15
5	64QAM	12	13	21.11	21.22	21.15
5	64QAM	25	0	21.10	21.19	21.06



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5
3	QPSK	1	0	23.05	23.01	23.03
3	QPSK	1	8	23.02	23.01	22.95
3	QPSK	1	14	22.95	23.00	22.95
3	QPSK	8	0	22.07	22.08	21.99
3	QPSK	8	4	21.96	21.99	21.98
3	QPSK	8	7	21.91	22.02	21.93
3	QPSK	15	0	21.88	21.97	21.90
3	16QAM	1	0	22.11	22.26	22.12
3	16QAM	1	8	22.04	22.10	22.12
3	16QAM	1	14	22.15	22.22	22.15
3	16QAM	8	0	20.85	20.96	20.93
3	16QAM	8	4	20.89	20.96	20.87
3	16QAM	8	7	20.87	20.95	20.94
3	16QAM	15	0	21.00	21.08	20.92
3	64QAM	1	0	22.00	22.00	21.98
3	64QAM	1	8	21.97	22.05	21.91
3	64QAM	1	14	22.00	22.11	22.05
3	64QAM	8	0	20.97	20.97	20.96
3	64QAM	8	4	20.96	21.03	20.94
3	64QAM	8	7	20.93	21.08	20.98
3	64QAM	15	0	20.94	21.03	20.90



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3
1.4	QPSK	1	0	22.96	22.98	22.94
1.4	QPSK	1	3	22.93	22.92	22.86
1.4	QPSK	1	5	22.86	22.91	22.86
1.4	QPSK	3	0	21.98	21.99	21.90
1.4	QPSK	3	1	21.87	21.90	21.89
1.4	QPSK	3	3	21.82	21.93	21.84
1.4	QPSK	6	0	21.79	21.88	21.81
1.4	16QAM	1	0	22.02	22.17	22.03
1.4	16QAM	1	3	21.95	22.01	22.03
1.4	16QAM	1	5	22.06	22.13	22.06
1.4	16QAM	3	0	20.76	20.87	20.84
1.4	16QAM	3	1	20.80	20.87	20.78
1.4	16QAM	3	3	20.78	20.86	20.85
1.4	16QAM	6	0	20.91	20.99	20.83
1.4	64QAM	1	0	21.91	21.91	21.89
1.4	64QAM	1	3	21.88	21.96	21.82
1.4	64QAM	1	5	21.91	22.02	21.96
1.4	64QAM	3	0	20.88	20.88	20.87
1.4	64QAM	3	1	20.87	20.94	20.85
1.4	64QAM	3	3	20.84	20.99	20.89
1.4	64QAM	6	0	20.85	20.94	20.81



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	/	23.31	/
10	QPSK	1	25	/	23.25	/
10	QPSK	1	49	/	23.21	/
10	QPSK	25	0	/	22.23	/
10	QPSK	25	12	/	22.19	/
10	QPSK	25	25	/	22.15	/
10	QPSK	50	0	/	22.11	/
10	16QAM	1	0	/	22.34	/
10	16QAM	1	25	/	22.22	/
10	16QAM	1	49	/	22.19	/
10	16QAM	25	0	/	21.13	/
10	16QAM	25	12	/	21.04	/
10	16QAM	25	25	/	21.09	/
10	16QAM	50	0	/	21.15	/
10	64QAM	1	0	/	22.27	/
10	64QAM	1	25	/	22.15	/
10	64QAM	1	49	/	22.17	/
10	64QAM	25	0	/	21.16	/
10	64QAM	25	12	/	21.18	/
10	64QAM	25	25	/	21.15	/
10	64QAM	50	0	/	21.10	/



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	23.18	23.25	23.20
5	QPSK	1	12	23.09	23.11	23.09
5	QPSK	1	24	23.11	23.18	23.14
5	QPSK	12	0	22.18	22.22	22.13
5	QPSK	12	7	22.15	22.21	22.15
5	QPSK	12	13	22.18	22.17	22.07
5	QPSK	25	0	22.07	22.13	22.17
5	16QAM	1	0	22.36	22.37	22.34
5	16QAM	1	12	22.25	22.26	22.30
5	16QAM	1	24	22.22	22.28	22.18
5	16QAM	12	0	21.07	21.23	21.16
5	16QAM	12	7	21.07	21.08	21.10
5	16QAM	12	13	21.08	21.19	21.08
5	16QAM	25	0	21.12	21.15	21.15
5	64QAM	1	0	22.17	22.26	22.21
5	64QAM	1	12	22.18	22.17	22.13
5	64QAM	1	24	22.15	22.24	22.20
5	64QAM	12	0	21.12	21.18	21.05
5	64QAM	12	7	21.09	21.17	21.15
5	64QAM	12	13	21.11	21.12	21.15
5	64QAM	25	0	21.10	21.14	21.06



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	23.22	23.28	23.24
20	QPSK	1	49	23.08	23.18	23.17
20	QPSK	1	99	23.13	23.20	23.13
20	QPSK	50	0	22.04	22.08	22.03
20	QPSK	50	24	22.03	22.04	22.00
20	QPSK	50	50	22.01	22.03	21.96
20	QPSK	100	0	21.96	22.06	21.98
20	16QAM	1	0	22.21	22.25	22.18
20	16QAM	1	49	22.16	22.22	22.20
20	16QAM	1	99	22.22	22.25	22.18
20	16QAM	50	0	21.14	21.16	21.10
20	16QAM	50	24	21.07	21.13	21.11
20	16QAM	50	50	21.01	21.11	21.10
20	16QAM	100	0	21.01	21.09	21.04
20	64QAM	1	0	22.08	22.10	22.00
20	64QAM	1	49	21.98	22.05	22.00
20	64QAM	1	99	22.04	22.09	22.04
20	64QAM	50	0	21.02	21.03	20.97
20	64QAM	50	24	21.06	21.09	21.03
20	64QAM	50	50	21.05	21.12	21.02
20	64QAM	100	0	20.99	21.08	21.05



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	23.14	23.25	23.20
15	QPSK	1	37	23.01	23.09	23.14
15	QPSK	1	74	23.08	23.10	23.10
15	QPSK	36	0	21.96	22.01	21.98
15	QPSK	36	20	21.94	22.01	21.95
15	QPSK	36	39	21.95	21.93	21.88
15	QPSK	75	0	21.94	21.99	21.94
15	16QAM	1	0	22.19	22.19	22.12
15	16QAM	1	37	22.11	22.16	22.19
15	16QAM	1	74	22.14	22.15	22.16
15	16QAM	36	0	21.09	21.09	21.02
15	16QAM	36	20	21.05	21.06	21.08
15	16QAM	36	39	20.92	21.06	21.03
15	16QAM	75	0	21.00	21.00	20.96
15	64QAM	1	0	22.04	22.06	21.99
15	64QAM	1	37	21.94	22.01	21.92
15	64QAM	1	74	21.98	22.04	21.99
15	64QAM	36	0	20.93	20.99	20.96
15	64QAM	36	20	20.99	21.07	21.00
15	64QAM	36	39	21.02	21.11	20.93
15	64QAM	75	0	20.94	21.00	20.99



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	23.18	23.24	23.23
10	QPSK	1	25	23.04	23.11	23.14
10	QPSK	1	49	23.11	23.19	23.04
10	QPSK	25	0	22.01	22.02	21.95
10	QPSK	25	12	21.97	21.94	21.99
10	QPSK	25	25	21.94	21.93	21.94
10	QPSK	50	0	21.91	22.02	21.90
10	16QAM	1	0	22.19	22.23	22.10
10	16QAM	1	25	22.14	22.13	22.15
10	16QAM	1	49	22.16	22.22	22.15
10	16QAM	25	0	21.09	21.11	21.06
10	16QAM	25	12	21.03	21.03	21.06
10	16QAM	25	25	20.94	21.06	21.05
10	16QAM	50	0	21.00	21.08	20.94
10	64QAM	1	0	22.02	22.01	21.90
10	64QAM	1	25	21.93	22.02	21.95
10	64QAM	1	49	22.00	22.06	22.01
10	64QAM	25	0	20.92	20.99	20.91
10	64QAM	25	12	21.02	21.00	20.96
10	64QAM	25	25	20.98	21.11	20.98
10	64QAM	50	0	20.95	20.98	21.01



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	23.12	23.26	23.20
5	QPSK	1	12	23.06	23.08	23.08
5	QPSK	1	24	23.12	23.18	23.04
5	QPSK	12	0	21.96	22.01	21.95
5	QPSK	12	7	22.00	21.96	21.93
5	QPSK	12	13	21.92	21.94	21.87
5	QPSK	25	0	21.90	21.97	21.90
5	16QAM	1	0	22.12	22.22	22.12
5	16QAM	1	12	22.11	22.12	22.16
5	16QAM	1	24	22.21	22.17	22.14
5	16QAM	12	0	21.04	21.10	21.00
5	16QAM	12	7	21.02	21.03	21.01
5	16QAM	12	13	20.95	21.07	21.00
5	16QAM	25	0	21.00	21.03	20.97
5	64QAM	1	0	22.04	22.02	21.96
5	64QAM	1	12	21.91	22.04	21.96
5	64QAM	1	24	21.95	22.04	22.03
5	64QAM	12	0	20.96	20.94	20.92
5	64QAM	12	7	21.03	21.03	21.02
5	64QAM	12	13	20.99	21.11	20.96
5	64QAM	25	0	20.97	21.03	21.03



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	23.12	23.26	23.14
3	QPSK	1	8	22.99	23.13	23.12
3	QPSK	1	14	23.10	23.16	23.07
3	QPSK	8	0	21.97	22.06	21.95
3	QPSK	8	4	22.00	21.94	21.99
3	QPSK	8	7	21.97	22.01	21.90
3	QPSK	15	0	21.93	22.02	21.89
3	16QAM	1	0	22.17	22.19	22.12
3	16QAM	1	8	22.07	22.15	22.13
3	16QAM	1	14	22.15	22.24	22.17
3	16QAM	8	0	21.07	21.09	21.07
3	16QAM	8	4	21.00	21.03	21.02
3	16QAM	8	7	20.92	21.03	21.01
3	16QAM	15	0	20.97	21.00	21.02
3	64QAM	1	0	21.99	22.00	21.90
3	64QAM	1	8	21.93	21.98	21.91
3	64QAM	1	14	22.01	22.01	22.00
3	64QAM	8	0	21.01	20.98	20.88
3	64QAM	8	4	20.97	21.07	21.01
3	64QAM	8	7	20.96	21.06	21.00
3	64QAM	15	0	20.91	21.00	21.04



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	23.17	23.19	23.22
1.4	QPSK	1	3	23.05	23.13	23.14
1.4	QPSK	1	5	23.07	23.10	23.12
1.4	QPSK	3	0	23.03	23.01	22.99
1.4	QPSK	3	1	22.95	22.94	22.95
1.4	QPSK	3	3	22.92	22.99	22.88
1.4	QPSK	6	0	21.95	22.04	21.90
1.4	16QAM	1	0	22.11	22.19	22.12
1.4	16QAM	1	3	22.15	22.18	22.10
1.4	16QAM	1	5	22.13	22.19	22.15
1.4	16QAM	3	0	22.09	22.13	22.00
1.4	16QAM	3	1	21.99	22.09	22.09
1.4	16QAM	3	3	21.92	22.01	22.03
1.4	16QAM	6	0	21.05	21.08	21.02
1.4	64QAM	1	0	21.99	22.00	21.98
1.4	64QAM	1	3	21.92	21.98	21.91
1.4	64QAM	1	5	22.03	21.99	22.03
1.4	64QAM	3	0	21.92	22.01	21.90
1.4	64QAM	3	1	21.99	22.03	21.95
1.4	64QAM	3	3	21.97	22.02	22.01
1.4	64QAM	6	0	20.93	21.04	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	23.07	0.203	23.32	0.215	23.16	0.207
20	QPSK	1	49	23.05	0.202	23.12	0.205	22.93	0.196
20	QPSK	1	99	22.89	0.195	23.05	0.202	22.91	0.195
20	QPSK	50	0	22.16	0.164	22.19	0.166	22.17	0.165
20	QPSK	50	24	22.14	0.164	22.18	0.165	22.05	0.160
20	QPSK	50	50	22.10	0.162	22.15	0.164	22.10	0.162
20	QPSK	100	0	22.07	0.161	22.17	0.165	22.04	0.160
20	16QAM	1	0	22.33	0.171	22.42	0.175	22.26	0.168
20	16QAM	1	49	22.27	0.169	22.33	0.171	22.32	0.171
20	16QAM	1	99	22.16	0.164	22.18	0.165	22.10	0.162
20	16QAM	50	0	21.18	0.131	21.26	0.134	21.21	0.132
20	16QAM	50	24	21.15	0.130	21.24	0.133	21.19	0.132
20	16QAM	50	50	21.02	0.126	21.09	0.129	21.01	0.126
20	16QAM	100	0	21.13	0.130	21.25	0.133	21.10	0.129
20	64QAM	1	0	22.18	0.165	22.30	0.170	22.19	0.166
20	64QAM	1	49	22.03	0.160	22.22	0.167	22.11	0.163
20	64QAM	1	99	22.13	0.163	22.14	0.164	21.99	0.158
20	64QAM	50	0	21.14	0.130	21.23	0.133	21.11	0.129
20	64QAM	50	24	21.11	0.129	21.21	0.132	21.04	0.127
20	64QAM	50	50	20.89	0.123	21.09	0.129	21.05	0.127
20	64QAM	100	0	20.97	0.125	21.16	0.131	20.99	0.126



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	23.35	0.216	23.48	0.223	23.45	0.221
15	QPSK	1	37	23.38	0.218	23.44	0.221	23.26	0.212
15	QPSK	1	74	23.19	0.208	23.40	0.219	23.20	0.209
15	QPSK	36	0	22.44	0.175	22.50	0.178	22.48	0.177
15	QPSK	36	20	22.43	0.175	22.55	0.180	22.41	0.174
15	QPSK	36	39	22.47	0.177	22.48	0.177	22.40	0.174
15	QPSK	75	0	22.42	0.175	22.50	0.178	22.37	0.173
15	16QAM	1	0	22.40	0.174	22.48	0.177	22.35	0.172
15	16QAM	1	37	22.37	0.173	22.45	0.176	22.43	0.175
15	16QAM	1	74	22.29	0.169	22.29	0.169	22.17	0.165
15	16QAM	36	0	21.24	0.133	21.40	0.138	21.34	0.136
15	16QAM	36	20	21.25	0.133	21.39	0.138	21.25	0.133
15	16QAM	36	39	21.13	0.130	21.19	0.132	21.11	0.129
15	16QAM	75	0	21.20	0.132	21.32	0.136	21.21	0.132
15	64QAM	1	0	22.24	0.167	22.43	0.175	22.33	0.171
15	64QAM	1	37	22.14	0.164	22.36	0.172	22.23	0.167
15	64QAM	1	74	22.27	0.169	22.22	0.167	22.13	0.163
15	64QAM	36	0	21.23	0.133	21.32	0.136	21.20	0.132
15	64QAM	36	20	21.21	0.132	21.30	0.135	21.12	0.129
15	64QAM	36	39	20.99	0.126	21.20	0.132	21.12	0.129
15	64QAM	75	0	21.08	0.128	21.24	0.133	21.10	0.129



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	23.44	0.221	23.49	0.223	23.46	0.222
10	QPSK	1	25	23.34	0.216	23.43	0.220	23.25	0.211
10	QPSK	1	49	23.19	0.208	23.36	0.217	23.27	0.212
10	QPSK	25	0	22.44	0.175	22.49	0.177	22.47	0.177
10	QPSK	25	12	22.44	0.175	22.55	0.180	22.40	0.174
10	QPSK	25	25	22.39	0.173	22.44	0.175	22.40	0.174
10	QPSK	50	0	22.43	0.175	22.51	0.178	22.36	0.172
10	16QAM	1	0	22.43	0.175	22.52	0.179	22.55	0.180
10	16QAM	1	25	22.55	0.180	22.62	0.183	22.64	0.184
10	16QAM	1	49	22.52	0.179	22.51	0.178	22.46	0.176
10	16QAM	25	0	21.53	0.142	21.60	0.145	21.50	0.141
10	16QAM	25	12	21.47	0.140	21.60	0.145	21.48	0.141
10	16QAM	25	25	21.34	0.136	21.37	0.137	21.29	0.135
10	16QAM	50	0	21.50	0.141	21.60	0.145	21.45	0.140
10	64QAM	1	0	22.50	0.178	22.61	0.182	22.49	0.177
10	64QAM	1	25	22.38	0.173	22.50	0.178	22.45	0.176
10	64QAM	1	49	22.48	0.177	22.51	0.178	22.29	0.169
10	64QAM	25	0	21.44	0.139	21.55	0.143	21.48	0.141
10	64QAM	25	12	21.48	0.141	21.52	0.142	21.35	0.136
10	64QAM	25	25	21.22	0.132	21.42	0.139	21.33	0.136
10	64QAM	50	0	21.26	0.134	21.48	0.141	21.35	0.136



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	23.37	0.217	23.56	0.227	23.47	0.222
5	QPSK	1	12	23.35	0.216	23.46	0.222	23.23	0.210
5	QPSK	1	24	23.25	0.211	23.40	0.219	23.26	0.212
5	QPSK	12	0	22.48	0.177	22.48	0.177	22.54	0.179
5	QPSK	12	7	22.46	0.176	22.48	0.177	22.37	0.173
5	QPSK	12	13	22.44	0.175	22.49	0.177	22.40	0.174
5	QPSK	25	0	22.37	0.173	22.49	0.177	22.34	0.171
5	16QAM	1	0	22.46	0.176	22.50	0.178	22.62	0.183
5	16QAM	1	12	22.35	0.172	22.47	0.177	22.62	0.183
5	16QAM	1	24	22.31	0.170	22.27	0.169	22.40	0.174
5	16QAM	12	0	21.31	0.135	21.35	0.136	21.54	0.143
5	16QAM	12	7	21.24	0.133	21.36	0.137	21.53	0.142
5	16QAM	12	13	21.11	0.129	21.16	0.131	21.35	0.136
5	16QAM	25	0	21.24	0.133	21.38	0.137	21.42	0.139
5	64QAM	1	0	22.33	0.171	22.45	0.176	22.52	0.179
5	64QAM	1	12	22.37	0.173	22.52	0.179	22.42	0.175
5	64QAM	1	24	22.44	0.175	22.49	0.177	22.34	0.171
5	64QAM	12	0	21.44	0.139	21.57	0.144	21.42	0.139
5	64QAM	12	7	21.44	0.139	21.52	0.142	21.39	0.138
5	64QAM	12	13	21.20	0.132	21.42	0.139	21.33	0.136
5	64QAM	25	0	21.28	0.134	21.48	0.141	21.33	0.136



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	23.41	0.219	23.49	0.223	23.52	0.225
3	QPSK	1	8	23.34	0.216	23.45	0.221	23.24	0.211
3	QPSK	1	14	23.20	0.209	23.39	0.218	23.26	0.212
3	QPSK	8	0	22.50	0.178	22.52	0.179	22.49	0.177
3	QPSK	8	4	22.50	0.178	22.54	0.179	22.35	0.172
3	QPSK	8	7	22.38	0.173	22.52	0.179	22.40	0.174
3	QPSK	15	0	22.42	0.175	22.51	0.178	22.41	0.174
3	16QAM	1	0	22.43	0.175	22.50	0.178	22.35	0.172
3	16QAM	1	8	22.42	0.175	22.40	0.174	22.46	0.176
3	16QAM	1	14	22.44	0.175	22.49	0.177	22.46	0.176
3	16QAM	8	0	21.46	0.140	21.57	0.144	21.54	0.143
3	16QAM	8	4	21.49	0.141	21.53	0.142	21.48	0.141
3	16QAM	8	7	21.36	0.137	21.40	0.138	21.38	0.137
3	16QAM	15	0	21.41	0.138	21.58	0.144	21.45	0.140
3	64QAM	1	0	22.55	0.180	22.59	0.182	22.47	0.177
3	64QAM	1	8	22.31	0.170	22.58	0.181	22.43	0.175
3	64QAM	1	14	22.49	0.177	22.45	0.176	22.27	0.169
3	64QAM	8	0	21.51	0.142	21.53	0.142	21.41	0.138
3	64QAM	8	4	21.44	0.139	21.58	0.144	21.36	0.137
3	64QAM	8	7	21.22	0.132	21.39	0.138	21.36	0.137
3	64QAM	15	0	21.33	0.136	21.52	0.142	21.34	0.136



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	23.38	0.218	23.48	0.223	23.44	0.221
1.4	QPSK	1	3	23.42	0.220	23.47	0.222	23.25	0.211
1.4	QPSK	1	5	23.23	0.210	23.41	0.219	23.25	0.211
1.4	QPSK	3	0	23.48	0.223	23.54	0.226	23.48	0.223
1.4	QPSK	3	1	23.50	0.224	23.55	0.226	23.33	0.215
1.4	QPSK	3	3	23.45	0.221	23.43	0.220	23.39	0.218
1.4	QPSK	6	0	22.39	0.173	22.50	0.178	22.36	0.172
1.4	16QAM	1	0	22.48	0.177	22.57	0.181	22.58	0.181
1.4	16QAM	1	3	22.39	0.173	22.48	0.177	22.63	0.183
1.4	16QAM	1	5	22.49	0.177	22.47	0.177	22.39	0.173
1.4	16QAM	3	0	22.53	0.179	22.60	0.182	22.58	0.181
1.4	16QAM	3	1	22.44	0.175	22.54	0.179	22.51	0.178
1.4	16QAM	3	3	22.39	0.173	22.45	0.176	22.34	0.171
1.4	16QAM	6	0	21.49	0.141	21.59	0.144	21.44	0.139
1.4	64QAM	1	0	22.55	0.180	22.60	0.182	22.48	0.177
1.4	64QAM	1	3	22.32	0.171	22.58	0.181	22.40	0.174
1.4	64QAM	1	5	22.46	0.176	22.42	0.175	22.28	0.169
1.4	64QAM	3	0	22.45	0.176	22.53	0.179	22.47	0.177
1.4	64QAM	3	1	22.45	0.176	22.52	0.179	22.32	0.171
1.4	64QAM	3	3	22.18	0.165	22.46	0.176	22.37	0.173
1.4	64QAM	6	0	21.28	0.134	21.52	0.142	21.32	0.136



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	22.83	0.192	22.87	0.194	22.79	0.190
20	QPSK	1	49	22.67	0.185	22.75	0.188	22.68	0.185
20	QPSK	1	99	22.72	0.187	22.79	0.190	22.70	0.186
20	QPSK	50	0	21.75	0.150	21.77	0.150	21.74	0.149
20	QPSK	50	24	21.74	0.149	21.75	0.150	21.65	0.146
20	QPSK	50	50	21.65	0.146	21.70	0.148	21.60	0.145
20	QPSK	100	0	21.67	0.147	21.72	0.149	21.69	0.148
20	16QAM	1	0	21.84	0.153	21.90	0.155	21.89	0.155
20	16QAM	1	49	21.79	0.151	21.86	0.153	21.81	0.152
20	16QAM	1	99	21.80	0.151	21.83	0.152	21.81	0.152
20	16QAM	50	0	20.57	0.114	20.66	0.116	20.61	0.115
20	16QAM	50	24	20.61	0.115	20.70	0.117	20.60	0.115
20	16QAM	50	50	20.64	0.116	20.72	0.118	20.64	0.116
20	16QAM	100	0	20.66	0.116	20.69	0.117	20.67	0.117
20	64QAM	1	0	21.91	0.155	21.93	0.156	21.87	0.154
20	64QAM	1	49	21.85	0.153	21.87	0.154	21.81	0.152
20	64QAM	1	99	21.90	0.155	21.91	0.155	21.87	0.154
20	64QAM	50	0	20.59	0.115	20.67	0.117	20.65	0.116
20	64QAM	50	24	20.55	0.114	20.65	0.116	20.61	0.115
20	64QAM	50	50	20.67	0.117	20.71	0.118	20.61	0.115
20	64QAM	100	0	20.69	0.117	20.77	0.119	20.70	0.117



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	22.81	0.191	22.80	0.191	22.72	0.187
15	QPSK	1	37	22.60	0.182	22.67	0.185	22.59	0.182
15	QPSK	1	74	22.67	0.185	22.69	0.186	22.67	0.185
15	QPSK	36	0	21.73	0.149	21.74	0.149	21.65	0.146
15	QPSK	36	20	21.67	0.147	21.72	0.149	21.59	0.144
15	QPSK	36	39	21.60	0.145	21.66	0.147	21.50	0.141
15	QPSK	75	0	21.60	0.145	21.69	0.148	21.65	0.146
15	16QAM	1	0	21.82	0.152	21.85	0.153	21.80	0.151
15	16QAM	1	37	21.72	0.149	21.80	0.151	21.72	0.149
15	16QAM	1	74	21.75	0.150	21.76	0.150	21.79	0.151
15	16QAM	36	0	20.52	0.113	20.64	0.116	20.54	0.113
15	16QAM	36	20	20.54	0.113	20.62	0.115	20.56	0.114
15	16QAM	36	39	20.61	0.115	20.62	0.115	20.60	0.115
15	16QAM	75	0	20.64	0.116	20.62	0.115	20.65	0.116
15	64QAM	1	0	21.87	0.154	21.90	0.155	21.82	0.152
15	64QAM	1	37	21.75	0.150	21.83	0.152	21.77	0.150
15	64QAM	1	74	21.86	0.153	21.90	0.155	21.79	0.151
15	64QAM	36	0	20.56	0.114	20.59	0.115	20.59	0.115
15	64QAM	36	20	20.49	0.112	20.62	0.115	20.51	0.112
15	64QAM	36	39	20.62	0.115	20.61	0.115	20.57	0.114
15	64QAM	75	0	20.60	0.115	20.69	0.117	20.64	0.116



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	22.78	0.190	22.83	0.192	22.76	0.189
10	QPSK	1	25	22.59	0.182	22.69	0.186	22.58	0.181
10	QPSK	1	49	22.63	0.183	22.70	0.186	22.69	0.186
10	QPSK	25	0	21.72	0.149	21.69	0.148	21.66	0.147
10	QPSK	25	12	21.64	0.146	21.72	0.149	21.59	0.144
10	QPSK	25	25	21.55	0.143	21.68	0.147	21.54	0.143
10	QPSK	50	0	21.61	0.145	21.62	0.145	21.68	0.147
10	16QAM	1	0	21.80	0.151	21.81	0.152	21.84	0.153
10	16QAM	1	25	21.70	0.148	21.82	0.152	21.80	0.151
10	16QAM	1	49	21.75	0.150	21.74	0.149	21.74	0.149
10	16QAM	25	0	20.48	0.112	20.65	0.116	20.54	0.113
10	16QAM	25	12	20.56	0.114	20.60	0.115	20.54	0.113
10	16QAM	25	25	20.54	0.113	20.69	0.117	20.57	0.114
10	16QAM	50	0	20.64	0.116	20.66	0.116	20.59	0.115
10	64QAM	1	0	21.84	0.153	21.86	0.153	21.86	0.153
10	64QAM	1	25	21.76	0.150	21.77	0.150	21.75	0.150
10	64QAM	1	49	21.89	0.155	21.83	0.152	21.83	0.152
10	64QAM	25	0	20.51	0.112	20.64	0.116	20.58	0.114
10	64QAM	25	12	20.52	0.113	20.57	0.114	20.54	0.113
10	64QAM	25	25	20.62	0.115	20.64	0.116	20.52	0.113
10	64QAM	50	0	20.61	0.115	20.70	0.117	20.63	0.116



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	22.76	0.189	22.77	0.189	22.71	0.187
5	QPSK	1	12	22.64	0.184	22.74	0.188	22.66	0.185
5	QPSK	1	24	22.64	0.184	22.75	0.188	22.64	0.184
5	QPSK	12	0	21.67	0.147	21.75	0.150	21.67	0.147
5	QPSK	12	7	21.69	0.148	21.70	0.148	21.61	0.145
5	QPSK	12	13	21.56	0.143	21.62	0.145	21.53	0.142
5	QPSK	25	0	21.58	0.144	21.65	0.146	21.66	0.147
5	16QAM	1	0	21.74	0.149	21.81	0.152	21.87	0.154
5	16QAM	1	12	21.71	0.148	21.77	0.150	21.75	0.150
5	16QAM	1	24	21.72	0.149	21.73	0.149	21.76	0.150
5	16QAM	12	0	20.51	0.112	20.56	0.114	20.54	0.113
5	16QAM	12	7	20.52	0.113	20.66	0.116	20.56	0.114
5	16QAM	12	13	20.57	0.114	20.70	0.117	20.54	0.113
5	16QAM	25	0	20.64	0.116	20.61	0.115	20.58	0.114
5	64QAM	1	0	21.87	0.154	21.92	0.156	21.78	0.151
5	64QAM	1	12	21.77	0.150	21.79	0.151	21.72	0.149
5	64QAM	1	24	21.84	0.153	21.89	0.155	21.85	0.153
5	64QAM	12	0	20.54	0.113	20.63	0.116	20.63	0.116
5	64QAM	12	7	20.49	0.112	20.61	0.115	20.56	0.114
5	64QAM	12	13	20.61	0.115	20.69	0.117	20.54	0.113
5	64QAM	25	0	20.65	0.116	20.67	0.117	20.62	0.115



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	22.78	0.190	22.77	0.189	22.72	0.187
3	QPSK	1	8	22.64	0.184	22.66	0.185	22.60	0.182
3	QPSK	1	14	22.70	0.186	22.70	0.186	22.62	0.183
3	QPSK	8	0	21.74	0.149	21.72	0.149	21.70	0.148
3	QPSK	8	4	21.73	0.149	21.68	0.147	21.64	0.146
3	QPSK	8	7	21.57	0.144	21.67	0.147	21.52	0.142
3	QPSK	15	0	21.63	0.146	21.71	0.148	21.65	0.146
3	16QAM	1	0	21.80	0.151	21.84	0.153	21.83	0.152
3	16QAM	1	8	21.70	0.148	21.81	0.152	21.72	0.149
3	16QAM	1	14	21.76	0.150	21.75	0.150	21.72	0.149
3	16QAM	8	0	20.56	0.114	20.60	0.115	20.59	0.115
3	16QAM	8	4	20.59	0.115	20.68	0.117	20.59	0.115
3	16QAM	8	7	20.61	0.115	20.69	0.117	20.56	0.114
3	16QAM	15	0	20.59	0.115	20.66	0.116	20.66	0.116
3	64QAM	1	0	21.82	0.152	21.89	0.155	21.78	0.151
3	64QAM	1	8	21.77	0.150	21.77	0.150	21.77	0.150
3	64QAM	1	14	21.88	0.154	21.87	0.154	21.80	0.151
3	64QAM	8	0	20.57	0.114	20.60	0.115	20.59	0.115
3	64QAM	8	4	20.54	0.113	20.59	0.115	20.57	0.114
3	64QAM	8	7	20.65	0.116	20.68	0.117	20.52	0.113
3	64QAM	15	0	20.66	0.116	20.75	0.119	20.65	0.116



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	22.73	0.187	22.79	0.190	22.77	0.189
1.4	QPSK	1	3	22.59	0.182	22.74	0.188	22.58	0.181
1.4	QPSK	1	5	22.66	0.185	22.76	0.189	22.61	0.182
1.4	QPSK	3	0	22.67	0.185	22.68	0.185	22.68	0.185
1.4	QPSK	3	1	22.66	0.185	22.74	0.188	22.56	0.180
1.4	QPSK	3	3	22.57	0.181	22.67	0.185	22.52	0.179
1.4	QPSK	6	0	21.62	0.145	21.65	0.146	21.66	0.147
1.4	16QAM	1	0	21.77	0.150	21.80	0.151	21.85	0.153
1.4	16QAM	1	3	21.77	0.150	21.79	0.151	21.72	0.149
1.4	16QAM	1	5	21.74	0.149	21.79	0.151	21.76	0.150
1.4	16QAM	3	0	21.52	0.142	21.59	0.144	21.53	0.142
1.4	16QAM	3	1	21.57	0.144	21.66	0.147	21.55	0.143
1.4	16QAM	3	3	21.57	0.144	21.71	0.148	21.62	0.145
1.4	16QAM	6	0	20.59	0.115	20.63	0.116	20.57	0.114
1.4	64QAM	1	0	21.86	0.153	21.90	0.155	21.81	0.152
1.4	64QAM	1	3	21.80	0.151	21.83	0.152	21.77	0.150
1.4	64QAM	1	5	21.84	0.153	21.84	0.153	21.81	0.152
1.4	64QAM	3	0	21.49	0.141	21.60	0.145	21.55	0.143
1.4	64QAM	3	1	21.47	0.140	21.57	0.144	21.51	0.142
1.4	64QAM	3	3	21.64	0.146	21.65	0.146	21.56	0.143
1.4	64QAM	6	0	20.67	0.117	20.76	0.119	20.63	0.116



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	18.89	0.077	18.94	0.078	18.91	0.078
10	QPSK	1	25	18.80	0.076	18.85	0.077	18.75	0.075
10	QPSK	1	49	18.86	0.077	18.92	0.078	18.88	0.077
10	QPSK	25	0	17.80	0.060	17.86	0.061	17.82	0.061
10	QPSK	25	12	17.66	0.058	17.78	0.060	17.71	0.059
10	QPSK	25	25	17.70	0.059	17.82	0.061	17.68	0.059
10	QPSK	50	0	17.75	0.060	17.81	0.060	17.73	0.059
10	16QAM	1	0	18.03	0.064	18.09	0.064	18.01	0.063
10	16QAM	1	25	17.98	0.063	18.06	0.064	18.01	0.063
10	16QAM	1	49	18.01	0.063	18.02	0.063	17.96	0.063
10	16QAM	25	0	16.82	0.048	16.89	0.049	16.82	0.048
10	16QAM	25	12	16.72	0.047	16.80	0.048	16.71	0.047
10	16QAM	25	25	16.77	0.048	16.82	0.048	16.79	0.048
10	16QAM	50	0	16.75	0.047	16.85	0.048	16.75	0.047
10	64QAM	1	0	17.88	0.061	17.90	0.062	17.80	0.060
10	64QAM	1	25	17.76	0.060	17.86	0.061	17.78	0.060
10	64QAM	1	49	17.81	0.060	17.82	0.061	17.78	0.060
10	64QAM	25	0	16.75	0.047	16.80	0.048	16.73	0.047
10	64QAM	25	12	16.73	0.047	16.77	0.048	16.67	0.046
10	64QAM	25	25	16.72	0.047	16.76	0.047	16.72	0.047
10	64QAM	50	0	16.71	0.047	16.73	0.047	16.66	0.046



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	18.82	0.076	18.92	0.078	18.86	0.077
5	QPSK	1	12	18.74	0.075	18.82	0.076	18.73	0.075
5	QPSK	1	24	18.83	0.076	18.87	0.077	18.84	0.077
5	QPSK	12	0	17.75	0.060	17.78	0.060	17.80	0.060
5	QPSK	12	7	17.60	0.058	17.77	0.060	17.64	0.058
5	QPSK	12	13	17.60	0.058	17.73	0.059	17.62	0.058
5	QPSK	25	0	17.67	0.058	17.78	0.060	17.65	0.058
5	16QAM	1	0	17.94	0.062	18.07	0.064	17.99	0.063
5	16QAM	1	12	17.95	0.062	18.02	0.063	17.95	0.062
5	16QAM	1	24	17.91	0.062	18.01	0.063	17.91	0.062
5	16QAM	12	0	16.75	0.047	16.85	0.048	16.73	0.047
5	16QAM	12	7	16.69	0.047	16.70	0.047	16.65	0.046
5	16QAM	12	13	16.72	0.047	16.76	0.047	16.78	0.048
5	16QAM	25	0	16.72	0.047	16.84	0.048	16.65	0.046
5	64QAM	1	0	17.85	0.061	17.85	0.061	17.73	0.059
5	64QAM	1	12	17.67	0.058	17.78	0.060	17.76	0.060
5	64QAM	1	24	17.76	0.060	17.76	0.060	17.75	0.060
5	64QAM	12	0	16.65	0.046	16.70	0.047	16.72	0.047
5	64QAM	12	7	16.63	0.046	16.76	0.047	16.59	0.046
5	64QAM	12	13	16.69	0.047	16.72	0.047	16.64	0.046
5	64QAM	25	0	16.68	0.047	16.69	0.047	16.59	0.046



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	18.86	0.077	18.87	0.077	18.82	0.076
3	QPSK	1	8	18.70	0.074	18.84	0.077	18.71	0.074
3	QPSK	1	14	18.84	0.077	18.85	0.077	18.83	0.076
3	QPSK	8	0	17.78	0.060	17.76	0.060	17.73	0.059
3	QPSK	8	4	17.60	0.058	17.77	0.060	17.61	0.058
3	QPSK	8	7	17.68	0.059	17.74	0.059	17.67	0.058
3	QPSK	15	0	17.74	0.059	17.75	0.060	17.66	0.058
3	16QAM	1	0	17.97	0.063	18.04	0.064	17.91	0.062
3	16QAM	1	8	17.91	0.062	17.97	0.063	17.93	0.062
3	16QAM	1	14	17.94	0.062	17.99	0.063	17.95	0.062
3	16QAM	8	0	16.80	0.048	16.81	0.048	16.76	0.047
3	16QAM	8	4	16.64	0.046	16.70	0.047	16.61	0.046
3	16QAM	8	7	16.70	0.047	16.80	0.048	16.76	0.047
3	16QAM	15	0	16.68	0.047	16.80	0.048	16.67	0.046
3	64QAM	1	0	17.86	0.061	17.80	0.060	17.73	0.059
3	64QAM	1	8	17.69	0.059	17.83	0.061	17.73	0.059
3	64QAM	1	14	17.74	0.059	17.80	0.060	17.75	0.060
3	64QAM	8	0	16.69	0.047	16.72	0.047	16.70	0.047
3	64QAM	8	4	16.65	0.046	16.67	0.046	16.61	0.046
3	64QAM	8	7	16.68	0.047	16.72	0.047	16.66	0.046
3	64QAM	15	0	16.64	0.046	16.69	0.047	16.60	0.046



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	18.82	0.076	18.87	0.077	18.88	0.077
1.4	QPSK	1	3	18.76	0.075	18.77	0.075	18.67	0.074
1.4	QPSK	1	5	18.78	0.076	18.89	0.077	18.79	0.076
1.4	QPSK	3	0	18.71	0.074	18.82	0.076	18.72	0.074
1.4	QPSK	3	1	18.62	0.073	18.77	0.075	18.61	0.073
1.4	QPSK	3	3	18.62	0.073	18.74	0.075	18.65	0.073
1.4	QPSK	6	0	17.72	0.059	17.78	0.060	17.70	0.059
1.4	16QAM	1	0	18.02	0.063	18.05	0.064	17.99	0.063
1.4	16QAM	1	3	17.95	0.062	17.99	0.063	17.96	0.063
1.4	16QAM	1	5	17.94	0.062	18.00	0.063	17.91	0.062
1.4	16QAM	3	0	17.81	0.060	17.87	0.061	17.74	0.059
1.4	16QAM	3	1	17.69	0.059	17.79	0.060	17.66	0.058
1.4	16QAM	3	3	17.74	0.059	17.73	0.059	17.74	0.059
1.4	16QAM	6	0	16.70	0.047	16.77	0.048	16.66	0.046
1.4	64QAM	1	0	17.79	0.060	17.89	0.062	17.78	0.060
1.4	64QAM	1	3	17.71	0.059	17.85	0.061	17.68	0.059
1.4	64QAM	1	5	17.74	0.059	17.72	0.059	17.71	0.059
1.4	64QAM	3	0	17.69	0.059	17.72	0.059	17.67	0.058
1.4	64QAM	3	1	17.71	0.059	17.69	0.059	17.61	0.058
1.4	64QAM	3	3	17.62	0.058	17.67	0.058	17.71	0.059
1.4	64QAM	6	0	16.64	0.046	16.72	0.047	16.60	0.046



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23060		23095		23130	
Frequency (MHz)				704		707.5		711	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	18.15	0.065	18.19	0.066	18.12	0.065
10	QPSK	1	25	18.12	0.065	18.14	0.065	18.08	0.064
10	QPSK	1	49	18.05	0.064	18.13	0.065	18.06	0.064
10	QPSK	25	0	17.17	0.052	17.18	0.052	17.08	0.051
10	QPSK	25	12	17.13	0.052	17.15	0.052	17.09	0.051
10	QPSK	25	25	17.09	0.051	17.13	0.052	17.06	0.051
10	QPSK	50	0	17.05	0.051	17.14	0.052	17.08	0.051
10	16QAM	1	0	17.28	0.053	17.38	0.055	17.28	0.053
10	16QAM	1	25	17.16	0.052	17.25	0.053	17.21	0.053
10	16QAM	1	49	17.33	0.054	17.36	0.054	17.29	0.054
10	16QAM	25	0	16.03	0.040	16.10	0.041	16.08	0.041
10	16QAM	25	12	15.98	0.040	16.07	0.040	16.01	0.040
10	16QAM	25	25	16.03	0.040	16.13	0.041	16.03	0.040
10	16QAM	50	0	16.09	0.041	16.19	0.042	16.10	0.041
10	64QAM	1	0	17.13	0.052	17.18	0.052	17.09	0.051
10	64QAM	1	25	17.09	0.051	17.16	0.052	17.09	0.051
10	64QAM	1	49	17.11	0.051	17.20	0.052	17.17	0.052
10	64QAM	25	0	16.09	0.041	16.11	0.041	16.05	0.040
10	64QAM	25	12	16.12	0.041	16.15	0.041	16.11	0.041
10	64QAM	25	25	16.09	0.041	16.17	0.041	16.13	0.041
10	64QAM	50	0	16.04	0.040	16.13	0.041	16.03	0.040



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23035		23095		23155	
Frequency (MHz)				701.5		707.5		713.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	18.14	0.065	18.17	0.066	18.15	0.065
5	QPSK	1	12	18.13	0.065	18.09	0.064	18.03	0.064
5	QPSK	1	24	18.05	0.064	18.13	0.065	18.03	0.064
5	QPSK	12	0	17.12	0.052	17.19	0.052	17.07	0.051
5	QPSK	12	7	17.09	0.051	17.15	0.052	17.09	0.051
5	QPSK	12	13	17.12	0.052	17.11	0.051	17.01	0.050
5	QPSK	25	0	17.01	0.050	17.16	0.052	17.11	0.051
5	16QAM	1	0	17.30	0.054	17.40	0.055	17.28	0.053
5	16QAM	1	12	17.19	0.052	17.20	0.052	17.24	0.053
5	16QAM	1	24	17.36	0.054	17.32	0.054	17.32	0.054
5	16QAM	12	0	16.01	0.040	16.13	0.041	16.10	0.041
5	16QAM	12	7	16.01	0.040	16.02	0.040	16.04	0.040
5	16QAM	12	13	16.02	0.040	16.13	0.041	15.97	0.040
5	16QAM	25	0	16.06	0.040	16.17	0.041	16.09	0.041
5	64QAM	1	0	17.11	0.051	17.20	0.052	17.05	0.051
5	64QAM	1	12	17.12	0.052	17.11	0.051	17.04	0.051
5	64QAM	1	24	17.09	0.051	17.18	0.052	17.14	0.052
5	64QAM	12	0	16.06	0.040	16.05	0.040	15.99	0.040
5	64QAM	12	7	16.12	0.041	16.11	0.041	16.09	0.041
5	64QAM	12	13	16.05	0.040	16.16	0.041	16.09	0.041
5	64QAM	25	0	16.04	0.040	16.13	0.041	16.00	0.040



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23025		23095		23165	
Frequency (MHz)				700.5		707.5		714.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	17.99	0.063	17.95	0.062	17.97	0.063
3	QPSK	1	8	17.96	0.063	17.95	0.062	17.89	0.062
3	QPSK	1	14	17.89	0.062	17.94	0.062	17.89	0.062
3	QPSK	8	0	17.01	0.050	17.02	0.050	16.93	0.049
3	QPSK	8	4	16.90	0.049	16.93	0.049	16.92	0.049
3	QPSK	8	7	16.85	0.048	16.96	0.050	16.87	0.049
3	QPSK	15	0	16.82	0.048	16.91	0.049	16.84	0.048
3	16QAM	1	0	17.05	0.051	17.20	0.052	17.06	0.051
3	16QAM	1	8	16.98	0.050	17.04	0.051	17.06	0.051
3	16QAM	1	14	17.09	0.051	17.16	0.052	17.09	0.051
3	16QAM	8	0	15.79	0.038	15.90	0.039	15.87	0.039
3	16QAM	8	4	15.83	0.038	15.90	0.039	15.81	0.038
3	16QAM	8	7	15.81	0.038	15.89	0.039	15.88	0.039
3	16QAM	15	0	15.94	0.039	16.02	0.040	15.86	0.039
3	64QAM	1	0	16.94	0.049	16.94	0.049	16.92	0.049
3	64QAM	1	8	16.91	0.049	16.99	0.050	16.85	0.048
3	64QAM	1	14	16.94	0.049	17.05	0.051	16.99	0.050
3	64QAM	8	0	15.91	0.039	15.91	0.039	15.90	0.039
3	64QAM	8	4	15.90	0.039	15.97	0.040	15.88	0.039
3	64QAM	8	7	15.87	0.039	16.02	0.040	15.92	0.039
3	64QAM	15	0	15.88	0.039	15.97	0.040	15.84	0.038



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23017		23095		23173	
Frequency (MHz)				699.7		707.5		715.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	17.90	0.062	17.92	0.062	17.88	0.061
1.4	QPSK	1	3	17.87	0.061	17.86	0.061	17.80	0.060
1.4	QPSK	1	5	17.80	0.060	17.85	0.061	17.80	0.060
1.4	QPSK	3	0	16.92	0.049	16.93	0.049	16.84	0.048
1.4	QPSK	3	1	16.81	0.048	16.84	0.048	16.83	0.048
1.4	QPSK	3	3	16.76	0.047	16.87	0.049	16.78	0.048
1.4	QPSK	6	0	16.73	0.047	16.82	0.048	16.75	0.047
1.4	16QAM	1	0	16.96	0.050	17.11	0.051	16.97	0.050
1.4	16QAM	1	3	16.89	0.049	16.95	0.050	16.97	0.050
1.4	16QAM	1	5	17.00	0.050	17.07	0.051	17.00	0.050
1.4	16QAM	3	0	15.70	0.037	15.81	0.038	15.78	0.038
1.4	16QAM	3	1	15.74	0.037	15.81	0.038	15.72	0.037
1.4	16QAM	3	3	15.72	0.037	15.80	0.038	15.79	0.038
1.4	16QAM	6	0	15.85	0.038	15.93	0.039	15.77	0.038
1.4	64QAM	1	0	16.85	0.048	16.85	0.048	16.83	0.048
1.4	64QAM	1	3	16.82	0.048	16.90	0.049	16.76	0.047
1.4	64QAM	1	5	16.85	0.048	16.96	0.050	16.90	0.049
1.4	64QAM	3	0	15.82	0.038	15.82	0.038	15.81	0.038
1.4	64QAM	3	1	15.81	0.038	15.88	0.039	15.79	0.038
1.4	64QAM	3	3	15.78	0.038	15.93	0.039	15.83	0.038
1.4	64QAM	6	0	15.79	0.038	15.88	0.039	15.75	0.038



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	/	/	19.76	0.095	/	/
10	QPSK	1	25	/	/	19.70	0.093	/	/
10	QPSK	1	49	/	/	19.66	0.092	/	/
10	QPSK	25	0	/	/	18.68	0.074	/	/
10	QPSK	25	12	/	/	18.64	0.073	/	/
10	QPSK	25	25	/	/	18.60	0.072	/	/
10	QPSK	50	0	/	/	18.56	0.072	/	/
10	16QAM	1	0	/	/	18.79	0.076	/	/
10	16QAM	1	25	/	/	18.67	0.074	/	/
10	16QAM	1	49	/	/	18.64	0.073	/	/
10	16QAM	25	0	/	/	17.58	0.057	/	/
10	16QAM	25	12	/	/	17.49	0.056	/	/
10	16QAM	25	25	/	/	17.54	0.057	/	/
10	16QAM	50	0	/	/	17.60	0.058	/	/
10	64QAM	1	0	/	/	18.72	0.074	/	/
10	64QAM	1	25	/	/	18.60	0.072	/	/
10	64QAM	1	49	/	/	18.62	0.073	/	/
10	64QAM	25	0	/	/	17.61	0.058	/	/
10	64QAM	25	12	/	/	17.63	0.058	/	/
10	64QAM	25	25	/	/	17.60	0.058	/	/
10	64QAM	50	0	/	/	17.55	0.057	/	/



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	19.63	0.092	19.70	0.093	19.65	0.092
5	QPSK	1	12	19.54	0.090	19.56	0.090	19.54	0.090
5	QPSK	1	24	19.56	0.090	19.63	0.092	19.59	0.091
5	QPSK	12	0	18.63	0.073	18.67	0.074	18.58	0.072
5	QPSK	12	7	18.60	0.072	18.66	0.073	18.60	0.072
5	QPSK	12	13	18.63	0.073	18.62	0.073	18.52	0.071
5	QPSK	25	0	18.52	0.071	18.58	0.072	18.62	0.073
5	16QAM	1	0	18.81	0.076	18.82	0.076	18.79	0.076
5	16QAM	1	12	18.70	0.074	18.71	0.074	18.75	0.075
5	16QAM	1	24	18.67	0.074	18.73	0.075	18.63	0.073
5	16QAM	12	0	17.52	0.056	17.68	0.059	17.61	0.058
5	16QAM	12	7	17.52	0.056	17.53	0.057	17.55	0.057
5	16QAM	12	13	17.53	0.057	17.64	0.058	17.53	0.057
5	16QAM	25	0	17.57	0.057	17.60	0.058	17.60	0.058
5	64QAM	1	0	18.62	0.073	18.71	0.074	18.66	0.073
5	64QAM	1	12	18.63	0.073	18.62	0.073	18.58	0.072
5	64QAM	1	24	18.60	0.072	18.69	0.074	18.65	0.073
5	64QAM	12	0	17.57	0.057	17.63	0.058	17.50	0.056
5	64QAM	12	7	17.54	0.057	17.62	0.058	17.60	0.058
5	64QAM	12	13	17.56	0.057	17.57	0.057	17.60	0.058
5	64QAM	25	0	17.55	0.057	17.59	0.057	17.51	0.056



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				132072		132322		132572	
Frequency (MHz)				1720		1745		1770	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	23.34	0.216	23.40	0.219	23.36	0.217
20	QPSK	1	49	23.20	0.209	23.30	0.214	23.29	0.213
20	QPSK	1	99	23.25	0.211	23.32	0.215	23.25	0.211
20	QPSK	50	0	22.16	0.164	22.20	0.166	22.15	0.164
20	QPSK	50	24	22.15	0.164	22.16	0.164	22.12	0.163
20	QPSK	50	50	22.13	0.163	22.15	0.164	22.08	0.161
20	QPSK	100	0	22.08	0.161	22.18	0.165	22.10	0.162
20	16QAM	1	0	22.33	0.171	22.37	0.173	22.30	0.170
20	16QAM	1	49	22.28	0.169	22.34	0.171	22.32	0.171
20	16QAM	1	99	22.34	0.171	22.37	0.173	22.30	0.170
20	16QAM	50	0	21.26	0.134	21.28	0.134	21.22	0.132
20	16QAM	50	24	21.19	0.132	21.25	0.133	21.23	0.133
20	16QAM	50	50	21.13	0.130	21.23	0.133	21.22	0.132
20	16QAM	100	0	21.13	0.130	21.21	0.132	21.16	0.131
20	64QAM	1	0	22.20	0.166	22.22	0.167	22.12	0.163
20	64QAM	1	49	22.10	0.162	22.17	0.165	22.12	0.163
20	64QAM	1	99	22.16	0.164	22.21	0.166	22.16	0.164
20	64QAM	50	0	21.14	0.130	21.15	0.130	21.09	0.129
20	64QAM	50	24	21.18	0.131	21.21	0.132	21.15	0.130
20	64QAM	50	50	21.17	0.131	21.24	0.133	21.14	0.130
20	64QAM	100	0	21.11	0.129	21.20	0.132	21.17	0.131



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				132047		132322		132597	
Frequency (MHz)				1717.5		1745		1772.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	23.26	0.212	23.37	0.217	23.32	0.215
15	QPSK	1	37	23.13	0.206	23.21	0.209	23.26	0.212
15	QPSK	1	74	23.20	0.209	23.22	0.210	23.22	0.210
15	QPSK	36	0	22.08	0.161	22.13	0.163	22.10	0.162
15	QPSK	36	20	22.06	0.161	22.13	0.163	22.07	0.161
15	QPSK	36	39	22.07	0.161	22.05	0.160	22.00	0.158
15	QPSK	75	0	22.06	0.161	22.11	0.163	22.06	0.161
15	16QAM	1	0	22.31	0.170	22.31	0.170	22.24	0.167
15	16QAM	1	37	22.23	0.167	22.28	0.169	22.31	0.170
15	16QAM	1	74	22.26	0.168	22.27	0.169	22.28	0.169
15	16QAM	36	0	21.21	0.132	21.21	0.132	21.14	0.130
15	16QAM	36	20	21.17	0.131	21.18	0.131	21.20	0.132
15	16QAM	36	39	21.04	0.127	21.18	0.131	21.15	0.130
15	16QAM	75	0	21.12	0.129	21.12	0.129	21.08	0.128
15	64QAM	1	0	22.16	0.164	22.18	0.165	22.11	0.163
15	64QAM	1	37	22.06	0.161	22.13	0.163	22.04	0.160
15	64QAM	1	74	22.10	0.162	22.16	0.164	22.11	0.163
15	64QAM	36	0	21.05	0.127	21.11	0.129	21.08	0.128
15	64QAM	36	20	21.11	0.129	21.19	0.132	21.12	0.129
15	64QAM	36	39	21.14	0.130	21.23	0.133	21.05	0.127
15	64QAM	75	0	21.06	0.128	21.12	0.129	21.11	0.129



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				132022		132322		132622	
Frequency (MHz)				1715		1745		1775	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	23.30	0.214	23.36	0.217	23.35	0.216
10	QPSK	1	25	23.16	0.207	23.23	0.210	23.26	0.212
10	QPSK	1	49	23.23	0.210	23.31	0.214	23.16	0.207
10	QPSK	25	0	22.13	0.163	22.14	0.164	22.07	0.161
10	QPSK	25	12	22.09	0.162	22.06	0.161	22.11	0.163
10	QPSK	25	25	22.06	0.161	22.05	0.160	22.06	0.161
10	QPSK	50	0	22.03	0.160	22.14	0.164	22.02	0.159
10	16QAM	1	0	22.31	0.170	22.35	0.172	22.22	0.167
10	16QAM	1	25	22.26	0.168	22.25	0.168	22.27	0.169
10	16QAM	1	49	22.28	0.169	22.34	0.171	22.27	0.169
10	16QAM	25	0	21.21	0.132	21.23	0.133	21.18	0.131
10	16QAM	25	12	21.15	0.130	21.15	0.130	21.18	0.131
10	16QAM	25	25	21.06	0.128	21.18	0.131	21.17	0.131
10	16QAM	50	0	21.12	0.129	21.20	0.132	21.06	0.128
10	64QAM	1	0	22.14	0.164	22.13	0.163	22.02	0.159
10	64QAM	1	25	22.05	0.160	22.14	0.164	22.07	0.161
10	64QAM	1	49	22.12	0.163	22.18	0.165	22.13	0.163
10	64QAM	25	0	21.04	0.127	21.11	0.129	21.03	0.127
10	64QAM	25	12	21.14	0.130	21.12	0.129	21.08	0.128
10	64QAM	25	25	21.10	0.129	21.23	0.133	21.10	0.129
10	64QAM	50	0	21.07	0.128	21.10	0.129	21.13	0.130



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131997		132322		132647	
Frequency (MHz)				1712.5		1745		1777.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	23.24	0.211	23.38	0.218	23.32	0.215
5	QPSK	1	12	23.18	0.208	23.20	0.209	23.20	0.209
5	QPSK	1	24	23.24	0.211	23.30	0.214	23.16	0.207
5	QPSK	12	0	22.08	0.161	22.13	0.163	22.07	0.161
5	QPSK	12	7	22.12	0.163	22.08	0.161	22.05	0.160
5	QPSK	12	13	22.04	0.160	22.06	0.161	21.99	0.158
5	QPSK	25	0	22.02	0.159	22.09	0.162	22.02	0.159
5	16QAM	1	0	22.24	0.167	22.34	0.171	22.24	0.167
5	16QAM	1	12	22.23	0.167	22.24	0.167	22.28	0.169
5	16QAM	1	24	22.33	0.171	22.29	0.169	22.26	0.168
5	16QAM	12	0	21.16	0.131	21.22	0.132	21.12	0.129
5	16QAM	12	7	21.14	0.130	21.15	0.130	21.13	0.130
5	16QAM	12	13	21.07	0.128	21.19	0.132	21.12	0.129
5	16QAM	25	0	21.12	0.129	21.15	0.130	21.09	0.129
5	64QAM	1	0	22.16	0.164	22.14	0.164	22.08	0.161
5	64QAM	1	12	22.03	0.160	22.16	0.164	22.08	0.161
5	64QAM	1	24	22.07	0.161	22.16	0.164	22.15	0.164
5	64QAM	12	0	21.08	0.128	21.06	0.128	21.04	0.127
5	64QAM	12	7	21.15	0.130	21.15	0.130	21.14	0.130
5	64QAM	12	13	21.11	0.129	21.23	0.133	21.08	0.128
5	64QAM	25	0	21.09	0.129	21.15	0.130	21.15	0.130



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131987		132322		132657	
Frequency (MHz)				1711.5		1745		1778.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	23.24	0.211	23.38	0.218	23.26	0.212
3	QPSK	1	8	23.11	0.205	23.25	0.211	23.24	0.211
3	QPSK	1	14	23.22	0.210	23.28	0.213	23.19	0.208
3	QPSK	8	0	22.09	0.162	22.18	0.165	22.07	0.161
3	QPSK	8	4	22.12	0.163	22.06	0.161	22.11	0.163
3	QPSK	8	7	22.09	0.162	22.13	0.163	22.02	0.159
3	QPSK	15	0	22.05	0.160	22.14	0.164	22.01	0.159
3	16QAM	1	0	22.29	0.169	22.31	0.170	22.24	0.167
3	16QAM	1	8	22.19	0.166	22.27	0.169	22.25	0.168
3	16QAM	1	14	22.27	0.169	22.36	0.172	22.29	0.169
3	16QAM	8	0	21.19	0.132	21.21	0.132	21.19	0.132
3	16QAM	8	4	21.12	0.129	21.15	0.130	21.14	0.130
3	16QAM	8	7	21.04	0.127	21.15	0.130	21.13	0.130
3	16QAM	15	0	21.09	0.129	21.12	0.129	21.14	0.130
3	64QAM	1	0	22.11	0.163	22.12	0.163	22.02	0.159
3	64QAM	1	8	22.05	0.160	22.10	0.162	22.03	0.160
3	64QAM	1	14	22.13	0.163	22.13	0.163	22.12	0.163
3	64QAM	8	0	21.13	0.130	21.10	0.129	21.00	0.126
3	64QAM	8	4	21.09	0.129	21.19	0.132	21.13	0.130
3	64QAM	8	7	21.08	0.128	21.18	0.131	21.12	0.129
3	64QAM	15	0	21.03	0.127	21.12	0.129	21.16	0.131



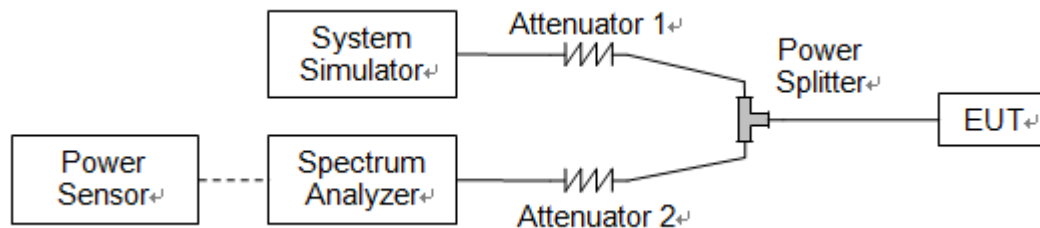
LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131979		132322		132665	
Frequency (MHz)				1710.7		1745		1779.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	23.29	0.213	23.31	0.214	23.34	0.216
1.4	QPSK	1	3	23.17	0.207	23.25	0.211	23.26	0.212
1.4	QPSK	1	5	23.19	0.208	23.22	0.210	23.24	0.211
1.4	QPSK	3	0	23.15	0.207	23.13	0.206	23.11	0.205
1.4	QPSK	3	1	23.07	0.203	23.06	0.202	23.07	0.203
1.4	QPSK	3	3	23.04	0.201	23.11	0.205	23.00	0.200
1.4	QPSK	6	0	22.07	0.161	22.16	0.164	22.02	0.159
1.4	16QAM	1	0	22.23	0.167	22.31	0.170	22.24	0.167
1.4	16QAM	1	3	22.27	0.169	22.30	0.170	22.22	0.167
1.4	16QAM	1	5	22.25	0.168	22.31	0.170	22.27	0.169
1.4	16QAM	3	0	22.21	0.166	22.25	0.168	22.12	0.163
1.4	16QAM	3	1	22.11	0.163	22.21	0.166	22.21	0.166
1.4	16QAM	3	3	22.04	0.160	22.13	0.163	22.15	0.164
1.4	16QAM	6	0	21.17	0.131	21.20	0.132	21.14	0.130
1.4	64QAM	1	0	22.11	0.163	22.12	0.163	22.10	0.162
1.4	64QAM	1	3	22.04	0.160	22.10	0.162	22.03	0.160
1.4	64QAM	1	5	22.15	0.164	22.11	0.163	22.15	0.164
1.4	64QAM	3	0	22.04	0.160	22.13	0.163	22.02	0.159
1.4	64QAM	3	1	22.11	0.163	22.15	0.164	22.07	0.161
1.4	64QAM	3	3	22.09	0.162	22.14	0.164	22.13	0.163
1.4	64QAM	6	0	21.05	0.127	21.16	0.131	21.13	0.130

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	1.0920	1.2742	PASS
B2	1.4	Low	18607	1850.7	16QAM	1.1000	1.2962	PASS
B2	1.4	Low	18607	1850.7	64QAM	1.1010	1.3095	PASS
B2	1.4	Mid	18900	1880	QPSK	1.0979	1.3027	PASS
B2	1.4	Mid	18900	1880	16QAM	1.0987	1.2904	PASS
B2	1.4	Mid	18900	1880	64QAM	1.0980	1.2922	PASS
B2	1.4	High	19193	1909.3	QPSK	1.0974	1.2879	PASS
B2	1.4	High	19193	1909.3	16QAM	1.0994	1.3066	PASS
B2	1.4	High	19193	1909.3	64QAM	1.0985	1.2886	PASS
B2	3	Low	18615	1851.5	QPSK	2.7009	2.9686	PASS
B2	3	Low	18615	1851.5	16QAM	2.7030	2.9924	PASS
B2	3	Low	18615	1851.5	64QAM	2.7054	2.9953	PASS
B2	3	Mid	18900	1880	QPSK	2.6976	2.9855	PASS
B2	3	Mid	18900	1880	16QAM	2.7013	3.0063	PASS
B2	3	Mid	18900	1880	64QAM	2.7134	2.9841	PASS
B2	3	High	19185	1908.5	QPSK	2.7005	2.9807	PASS
B2	3	High	19185	1908.5	16QAM	2.7086	2.9583	PASS
B2	3	High	19185	1908.5	64QAM	2.7078	2.9784	PASS
B2	5	Low	18625	1852.5	QPSK	4.4711	4.9030	PASS
B2	5	Low	18625	1852.5	16QAM	4.4771	4.9374	PASS
B2	5	Low	18625	1852.5	64QAM	4.4670	4.8752	PASS
B2	5	Mid	18900	1880	QPSK	4.4766	4.9074	PASS
B2	5	Mid	18900	1880	16QAM	4.4832	4.9151	PASS
B2	5	Mid	18900	1880	64QAM	4.4666	4.8810	PASS
B2	5	High	19175	1907.5	QPSK	4.4743	4.9033	PASS
B2	5	High	19175	1907.5	16QAM	4.4769	4.8891	PASS
B2	5	High	19175	1907.5	64QAM	4.4881	4.8671	PASS
B2	10	Low	18650	1855	QPSK	8.9330	9.6289	PASS
B2	10	Low	18650	1855	16QAM	8.9337	9.6681	PASS
B2	10	Low	18650	1855	64QAM	8.9429	9.7375	PASS
B2	10	Mid	18900	1880	QPSK	8.9432	9.6847	PASS
B2	10	Mid	18900	1880	16QAM	8.9136	9.6395	PASS
B2	10	Mid	18900	1880	64QAM	8.9290	9.6875	PASS



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B2	10	High	19150	1905	QPSK	8.9199	9.6331	PASS
B2	10	High	19150	1905	16QAM	8.9142	9.5912	PASS
B2	10	High	19150	1905	64QAM	8.9301	9.6113	PASS
B2	15	Low	18675	1857.5	QPSK	13.446	14.289	PASS
B2	15	Low	18675	1857.5	16QAM	13.422	14.454	PASS
B2	15	Low	18675	1857.5	64QAM	13.418	14.445	PASS
B2	15	Mid	18900	1880	QPSK	13.400	14.356	PASS
B2	15	Mid	18900	1880	16QAM	13.384	14.404	PASS
B2	15	Mid	18900	1880	64QAM	13.384	14.468	PASS
B2	15	High	19125	1902.5	QPSK	13.396	14.323	PASS
B2	15	High	19125	1902.5	16QAM	13.355	14.492	PASS
B2	15	High	19125	1902.5	64QAM	13.352	14.307	PASS
B2	20	Low	18700	1860	QPSK	17.864	19.062	PASS
B2	20	Low	18700	1860	16QAM	17.864	19.209	PASS
B2	20	Low	18700	1860	64QAM	17.873	19.218	PASS
B2	20	Mid	18900	1880	QPSK	17.864	19.114	PASS
B2	20	Mid	18900	1880	16QAM	17.874	19.090	PASS
B2	20	Mid	18900	1880	64QAM	17.872	19.151	PASS
B2	20	High	19100	1900	QPSK	17.810	19.022	PASS
B2	20	High	19100	1900	16QAM	17.827	19.057	PASS
B2	20	High	19100	1900	64QAM	17.854	19.053	PASS
B4	1.4	Low	19957	1710.7	QPSK	1.0997	1.3049	PASS
B4	1.4	Low	19957	1710.7	16QAM	1.1023	1.3084	PASS
B4	1.4	Low	19957	1710.7	64QAM	1.0991	1.3038	PASS
B4	1.4	Mid	20175	1732.5	QPSK	1.0989	1.2975	PASS
B4	1.4	Mid	20175	1732.5	16QAM	1.1037	1.2764	PASS
B4	1.4	Mid	20175	1732.5	64QAM	1.1021	1.2775	PASS
B4	1.4	High	20393	1754.3	QPSK	1.0981	1.2862	PASS
B4	1.4	High	20393	1754.3	16QAM	1.1024	1.2923	PASS
B4	1.4	High	20393	1754.3	64QAM	1.0991	1.3065	PASS
B4	3	Low	19965	1711.5	QPSK	2.7005	3.0062	PASS
B4	3	Low	19965	1711.5	16QAM	2.7035	2.9844	PASS
B4	3	Low	19965	1711.5	64QAM	2.7096	3.0034	PASS
B4	3	Mid	20175	1732.5	QPSK	2.7048	3.0090	PASS
B4	3	Mid	20175	1732.5	16QAM	2.7069	2.9982	PASS
B4	3	Mid	20175	1732.5	64QAM	2.7026	2.9885	PASS
B4	3	High	20385	1753.5	QPSK	2.7014	2.9926	PASS
B4	3	High	20385	1753.5	16QAM	2.7024	2.9842	PASS



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B4	3	High	20385	1753.5	64QAM	2.7030	2.9865	PASS
B4	5	Low	19975	1712.5	QPSK	4.4760	4.9394	PASS
B4	5	Low	19975	1712.5	16QAM	4.4781	4.8935	PASS
B4	5	Low	19975	1712.5	64QAM	4.4826	4.8992	PASS
B4	5	Mid	20175	1732.5	QPSK	4.4749	4.8823	PASS
B4	5	Mid	20175	1732.5	16QAM	4.4667	4.9328	PASS
B4	5	Mid	20175	1732.5	64QAM	4.4849	4.8963	PASS
B4	5	High	20375	1752.5	QPSK	4.4678	4.9060	PASS
B4	5	High	20375	1752.5	16QAM	4.4796	4.8707	PASS
B4	5	High	20375	1752.5	64QAM	4.4870	4.9139	PASS
B4	10	Low	20000	1715	QPSK	8.9452	9.7007	PASS
B4	10	Low	20000	1715	16QAM	8.9078	9.5874	PASS
B4	10	Low	20000	1715	64QAM	8.9370	9.6316	PASS
B4	10	Mid	20175	1732.5	QPSK	8.9480	9.6325	PASS
B4	10	Mid	20175	1732.5	16QAM	8.9248	9.6167	PASS
B4	10	Mid	20175	1732.5	64QAM	8.9442	9.7474	PASS
B4	10	High	20350	1750	QPSK	8.9270	9.6229	PASS
B4	10	High	20350	1750	16QAM	8.9247	9.5755	PASS
B4	10	High	20350	1750	64QAM	8.9419	9.6427	PASS
B4	15	Low	20025	1717.5	QPSK	13.401	14.424	PASS
B4	15	Low	20025	1717.5	16QAM	13.398	14.469	PASS
B4	15	Low	20025	1717.5	64QAM	13.382	14.493	PASS
B4	15	Mid	20175	1732.5	QPSK	13.390	14.360	PASS
B4	15	Mid	20175	1732.5	16QAM	13.419	14.548	PASS
B4	15	Mid	20175	1732.5	64QAM	13.409	14.357	PASS
B4	15	High	20325	1747.5	QPSK	13.423	14.341	PASS
B4	15	High	20325	1747.5	16QAM	13.386	14.427	PASS
B4	15	High	20325	1747.5	64QAM	13.386	14.356	PASS
B4	20	Low	20050	1720	QPSK	17.878	19.148	PASS
B4	20	Low	20050	1720	16QAM	17.885	19.134	PASS
B4	20	Low	20050	1720	64QAM	17.893	19.292	PASS
B4	20	Mid	20175	1732.5	QPSK	17.857	19.043	PASS
B4	20	Mid	20175	1732.5	16QAM	17.841	19.198	PASS
B4	20	Mid	20175	1732.5	64QAM	17.891	19.296	PASS
B4	20	High	20300	1745	QPSK	17.846	18.993	PASS
B4	20	High	20300	1745	16QAM	17.854	19.157	PASS
B4	20	High	20300	1745	64QAM	17.837	19.252	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	1.0964	1.2804	PASS
B5	1.4	Low	20407	824.7	16QAM	1.0943	1.2857	PASS
B5	1.4	Low	20407	824.7	64QAM	1.1000	1.2799	PASS
B5	1.4	Mid	20525	836.5	QPSK	1.0984	1.2805	PASS
B5	1.4	Mid	20525	836.5	16QAM	1.0973	1.2916	PASS
B5	1.4	Mid	20525	836.5	64QAM	1.1003	1.2931	PASS
B5	1.4	High	20643	848.3	QPSK	1.0980	1.2815	PASS
B5	1.4	High	20643	848.3	16QAM	1.0994	1.2781	PASS
B5	1.4	High	20643	848.3	64QAM	1.0978	1.2843	PASS
B5	3	Low	20415	825.5	QPSK	2.7077	2.9781	PASS
B5	3	Low	20415	825.5	16QAM	2.7007	3.0134	PASS
B5	3	Low	20415	825.5	64QAM	2.7036	2.9796	PASS
B5	3	Mid	20525	836.5	QPSK	2.7018	2.9669	PASS
B5	3	Mid	20525	836.5	16QAM	2.7068	2.9725	PASS
B5	3	Mid	20525	836.5	64QAM	2.6996	2.9733	PASS
B5	3	High	20635	847.5	QPSK	2.7018	2.9857	PASS
B5	3	High	20635	847.5	16QAM	2.7058	2.9791	PASS
B5	3	High	20635	847.5	64QAM	2.7032	2.9780	PASS
B5	5	Low	20425	826.5	QPSK	4.4786	4.8896	PASS
B5	5	Low	20425	826.5	16QAM	4.4736	4.8602	PASS
B5	5	Low	20425	826.5	64QAM	4.4806	4.9155	PASS
B5	5	Mid	20525	836.5	QPSK	4.4785	4.9172	PASS
B5	5	Mid	20525	836.5	16QAM	4.4811	4.9059	PASS
B5	5	Mid	20525	836.5	64QAM	4.4773	4.8645	PASS
B5	5	High	20625	846.5	QPSK	4.4687	4.8858	PASS
B5	5	High	20625	846.5	16QAM	4.4807	4.8712	PASS
B5	5	High	20625	846.5	64QAM	4.4811	4.9154	PASS
B5	10	Low	20450	829	QPSK	8.9508	9.7164	PASS
B5	10	Low	20450	829	16QAM	8.9267	9.6265	PASS
B5	10	Low	20450	829	64QAM	8.9501	9.6927	PASS
B5	10	Mid	20525	836.5	QPSK	8.9281	9.6399	PASS
B5	10	Mid	20525	836.5	16QAM	8.9157	9.6010	PASS
B5	10	Mid	20525	836.5	64QAM	8.9373	9.6314	PASS
B5	10	High	20600	844	QPSK	8.9348	9.6366	PASS
B5	10	High	20600	844	16QAM	8.9005	9.5371	PASS



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B5	10	High	20600	844	64QAM	8.9347	9.6274	PASS
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LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B12	1.4	Low	23017	699.7	QPSK	1.0982	1.2684	PASS
B12	1.4	Low	23017	699.7	16QAM	1.1003	1.2829	PASS
B12	1.4	Low	23017	699.7	64QAM	1.1009	1.3143	PASS
B12	1.4	Mid	23095	707.5	QPSK	1.0994	1.2859	PASS
B12	1.4	Mid	23095	707.5	16QAM	1.0953	1.2783	PASS
B12	1.4	Mid	23095	707.5	64QAM	1.1029	1.2984	PASS
B12	1.4	High	23173	715.3	QPSK	1.0963	1.2966	PASS
B12	1.4	High	23173	715.3	16QAM	1.1029	1.2875	PASS
B12	1.4	High	23173	715.3	64QAM	1.1002	1.2998	PASS
B12	3	Low	23025	700.5	QPSK	2.6965	2.9720	PASS
B12	3	Low	23025	700.5	16QAM	2.7049	2.9889	PASS
B12	3	Low	23025	700.5	64QAM	2.6995	2.9680	PASS
B12	3	Mid	23095	707.5	QPSK	2.6993	2.9941	PASS
B12	3	Mid	23095	707.5	16QAM	2.7032	2.9863	PASS
B12	3	Mid	23095	707.5	64QAM	2.7002	2.9795	PASS
B12	3	High	23165	714.5	QPSK	2.7033	3.0017	PASS
B12	3	High	23165	714.5	16QAM	2.6987	2.9849	PASS
B12	3	High	23165	714.5	64QAM	2.7018	2.9749	PASS
B12	5	Low	23035	701.5	QPSK	4.4709	4.8831	PASS
B12	5	Low	23035	701.5	16QAM	4.4790	4.9454	PASS
B12	5	Low	23035	701.5	64QAM	4.4653	4.9047	PASS
B12	5	Mid	23095	707.5	QPSK	4.4818	4.9173	PASS
B12	5	Mid	23095	707.5	16QAM	4.4856	4.9019	PASS
B12	5	Mid	23095	707.5	64QAM	4.4911	4.9217	PASS
B12	5	High	23155	713.5	QPSK	4.4743	4.8874	PASS
B12	5	High	23155	713.5	16QAM	4.4656	4.8401	PASS
B12	5	High	23155	713.5	64QAM	4.4808	4.8887	PASS
B12	10	Low	23060	704	QPSK	8.9226	9.5896	PASS
B12	10	Low	23060	704	16QAM	8.9007	9.5860	PASS
B12	10	Low	23060	704	64QAM	8.9172	9.6376	PASS
B12	10	Mid	23095	707.5	QPSK	8.9557	9.7138	PASS
B12	10	Mid	23095	707.5	16QAM	8.9470	9.6293	PASS
B12	10	Mid	23095	707.5	64QAM	8.9639	9.7041	PASS
B12	10	High	23130	711	QPSK	8.9242	9.6833	PASS
B12	10	High	23130	711	16QAM	8.9341	9.6083	PASS



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B12	10	High	23130	711	64QAM	8.9436	9.6869	PASS
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LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B13	5	Low	23205	779.5	QPSK	4.4716	4.9046	PASS
B13	5	Low	23205	779.5	16QAM	4.4694	4.8867	PASS
B13	5	Low	23205	779.5	64QAM	4.4819	4.9262	PASS
B13	5	Mid	23230	782	QPSK	4.4790	4.9198	PASS
B13	5	Mid	23230	782	16QAM	4.4842	4.9556	PASS
B13	5	Mid	23230	782	64QAM	4.4819	4.9327	PASS
B13	5	High	23255	784.5	QPSK	4.4666	4.9031	PASS
B13	5	High	23255	784.5	16QAM	4.4715	4.9116	PASS
B13	5	High	23255	784.5	64QAM	4.4765	4.9064	PASS
B13	10	Mid	23230	782	QPSK	8.9399	9.7018	PASS
B13	10	Mid	23230	782	16QAM	8.9206	9.6345	PASS
B13	10	Mid	23230	782	64QAM	8.9387	9.6644	PASS



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B66	1.4	Low	131979	1710.7	QPSK	1.0906	1.2659	PASS
B66	1.4	Low	131979	1710.7	16QAM	1.0979	1.3061	PASS
B66	1.4	Low	131979	1710.7	64QAM	1.0986	1.3111	PASS
B66	1.4	Mid	132322	1745	QPSK	1.0987	1.2776	PASS
B66	1.4	Mid	132322	1745	16QAM	1.0993	1.2932	PASS
B66	1.4	Mid	132322	1745	64QAM	1.0990	1.2998	PASS
B66	1.4	High	132665	1779.3	QPSK	1.0951	1.2932	PASS
B66	1.4	High	132665	1779.3	16QAM	1.1037	1.2919	PASS
B66	1.4	High	132665	1779.3	64QAM	1.0983	1.3023	PASS
B66	3	Low	131987	1711.5	QPSK	2.7006	2.9831	PASS
B66	3	Low	131987	1711.5	16QAM	2.7082	2.9791	PASS
B66	3	Low	131987	1711.5	64QAM	2.7065	3.0063	PASS
B66	3	Mid	132322	1745	QPSK	2.7007	2.9972	PASS
B66	3	Mid	132322	1745	16QAM	2.7027	2.9748	PASS
B66	3	Mid	132322	1745	64QAM	2.7047	2.9901	PASS
B66	3	High	132657	1778.5	QPSK	2.6973	2.9949	PASS
B66	3	High	132657	1778.5	16QAM	2.7025	2.9855	PASS
B66	3	High	132657	1778.5	64QAM	2.7067	2.9920	PASS
B66	5	Low	131997	1712.5	QPSK	4.4721	4.8909	PASS
B66	5	Low	131997	1712.5	16QAM	4.4782	4.9154	PASS
B66	5	Low	131997	1712.5	64QAM	4.4754	4.8768	PASS
B66	5	Mid	132322	1745	QPSK	4.4726	4.9100	PASS
B66	5	Mid	132322	1745	16QAM	4.4730	4.9057	PASS
B66	5	Mid	132322	1745	64QAM	4.4657	4.8649	PASS
B66	5	High	132647	1777.5	QPSK	4.4740	4.9247	PASS
B66	5	High	132647	1777.5	16QAM	4.4737	4.8461	PASS
B66	5	High	132647	1777.5	64QAM	4.4766	4.8701	PASS
B66	10	Low	132022	1715	QPSK	8.9552	9.6398	PASS
B66	10	Low	132022	1715	16QAM	8.9253	9.6006	PASS
B66	10	Low	132022	1715	64QAM	8.9262	9.6484	PASS
B66	10	Mid	132322	1745	QPSK	8.9309	9.6705	PASS
B66	10	Mid	132322	1745	16QAM	8.9357	9.6348	PASS
B66	10	Mid	132322	1745	64QAM	8.9424	9.7073	PASS
B66	10	High	132622	1775	QPSK	8.9473	9.6825	PASS
B66	10	High	132622	1775	16QAM	8.9208	9.6736	PASS



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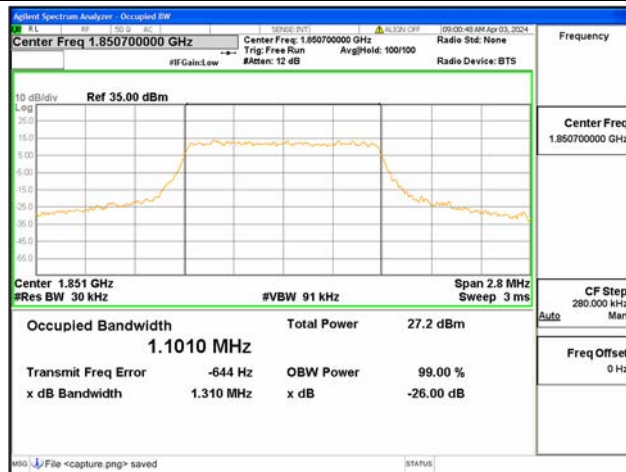
B66	10	High	132622	1775	64QAM	8.9420	9.6874	PASS
B66	15	Low	132047	1717.5	QPSK	13.424	14.366	PASS
B66	15	Low	132047	1717.5	16QAM	13.417	14.470	PASS
B66	15	Low	132047	1717.5	64QAM	13.418	14.354	PASS
B66	15	Mid	132322	1745	QPSK	13.433	14.358	PASS
B66	15	Mid	132322	1745	16QAM	13.410	14.560	PASS
B66	15	Mid	132322	1745	64QAM	13.403	14.460	PASS
B66	15	High	132597	1772.5	QPSK	13.390	14.300	PASS
B66	15	High	132597	1772.5	16QAM	13.395	14.481	PASS
B66	15	High	132597	1772.5	64QAM	13.395	14.377	PASS
B66	20	Low	132072	1720	QPSK	17.875	19.055	PASS
B66	20	Low	132072	1720	16QAM	17.864	19.137	PASS
B66	20	Low	132072	1720	64QAM	17.860	19.101	PASS
B66	20	Mid	132322	1745	QPSK	17.809	19.059	PASS
B66	20	Mid	132322	1745	16QAM	17.889	19.045	PASS
B66	20	Mid	132322	1745	64QAM	17.842	19.175	PASS
B66	20	High	132572	1770	QPSK	17.847	19.138	PASS
B66	20	High	132572	1770	16QAM	17.886	19.189	PASS
B66	20	High	132572	1770	64QAM	17.865	19.152	PASS



B2 / 1.4MHz / QPSK/ Low CH



B2 / 1.4MHz / 16QAM/ Low CH



B2 / 1.4MHz / 64QAM/ Low CH



B2 / 1.4MHz / QPSK/ Mid CH



B2 / 1.4MHz / 16QAM/ Mid CH



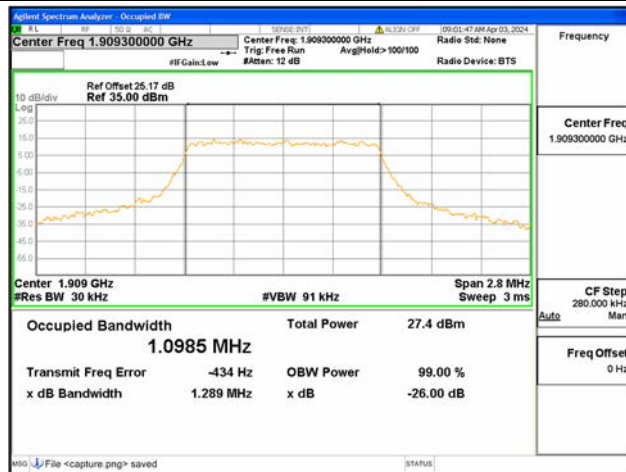
B2 / 1.4MHz / 64QAM/ Mid CH



B2 / 1.4MHz / QPSK/ High CH



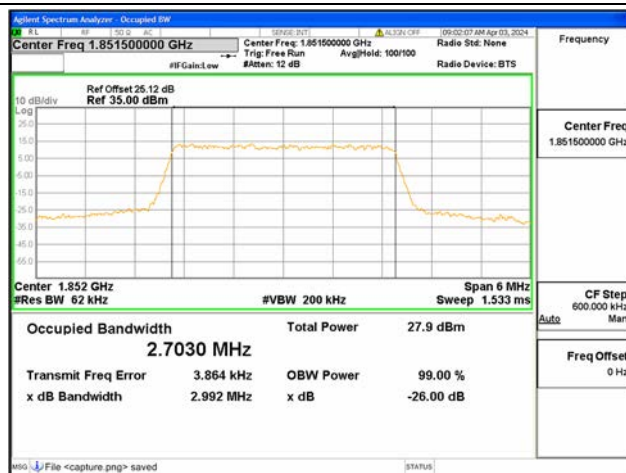
B2 / 1.4MHz / 16QAM/ High CH



B2 / 1.4MHz / 64QAM/ High CH



B2 / 3MHz / QPSK/ Low CH



B2 / 3MHz / 16QAM/ Low CH



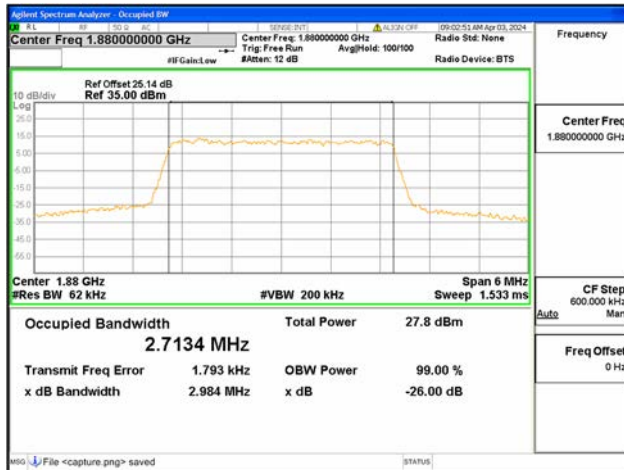
B2 / 3MHz / 64QAM/ Low CH



B2 / 3MHz / QPSK/ Mid CH



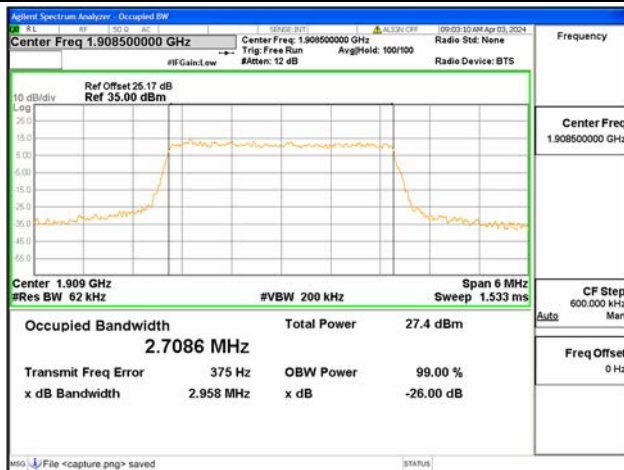
B2 / 3MHz / 16QAM/ Mid CH



B2 / 3MHz / 64QAM/ Mid CH



B2 / 3MHz / QPSK/ High CH



B2 / 3MHz / 16QAM/ High CH



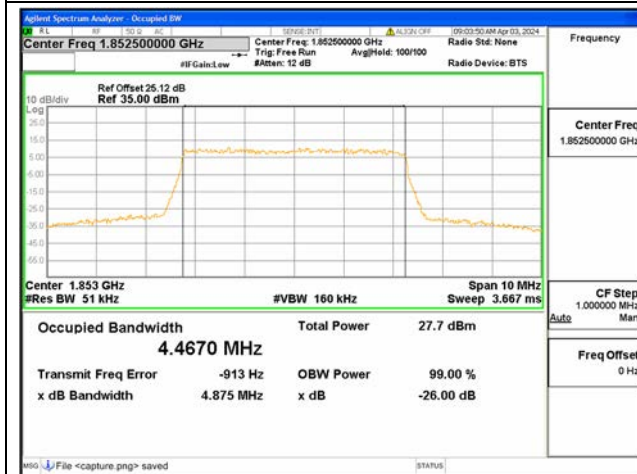
B2 / 3MHz / 64QAM/ High CH



B2 / 5MHz / QPSK/ Low CH



B2 / 5MHz / 16QAM/ Low CH



B2 / 5MHz / 64QAM/ Low CH



B2 / 5MHz / QPSK/ Mid CH



B2 / 5MHz / 16QAM/ Mid CH



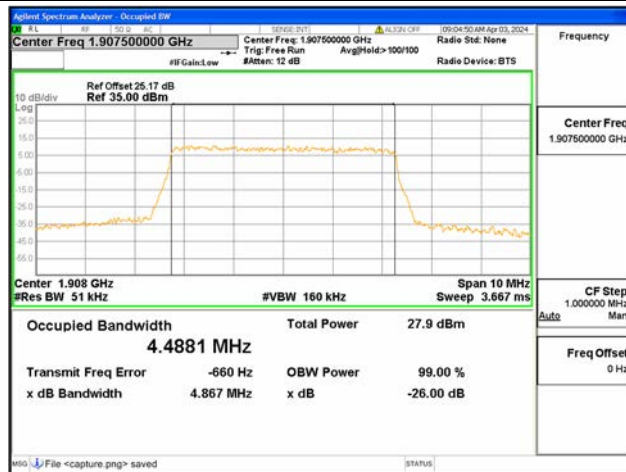
B2 / 5MHz / 64QAM/ Mid CH



B2 / 5MHz / QPSK/ High CH



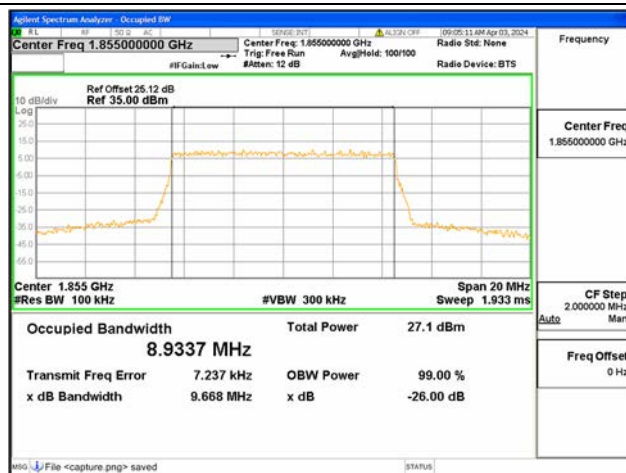
B2 / 5MHz / 16QAM/ High CH



B2 / 5MHz / 64QAM/ High CH



B2 / 10MHz / QPSK/ Low CH



B2 / 10MHz / 64QAM/ Low CH



B2 / 10MHz / 16QAM/ Low CH



B2 / 10MHz / QPSK/ Mid CH



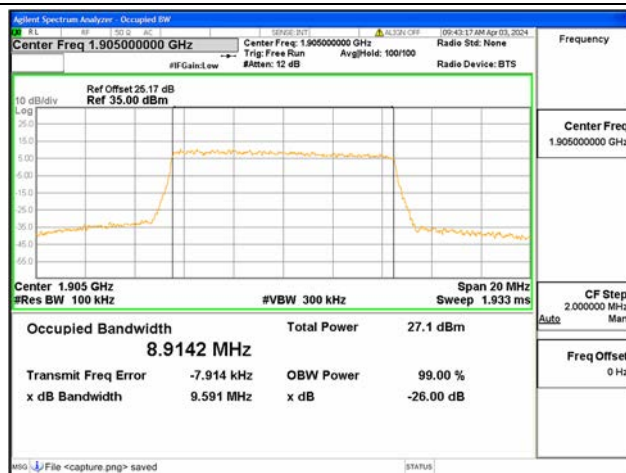
B2 / 10MHz / 16QAM/ Mid CH



B2 / 10MHz / 64QAM/ Mid CH



B2 / 10MHz / QPSK/ High CH



B2 / 10MHz / 16QAM/ High CH



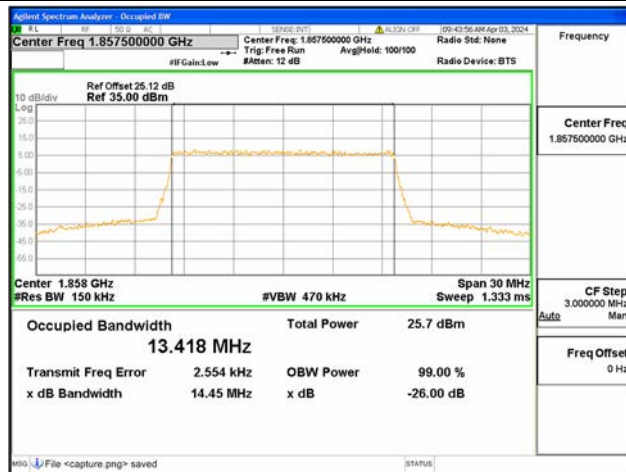
B2 / 10MHz / 64QAM/ High CH



B2 / 15MHz / QPSK/ Low CH



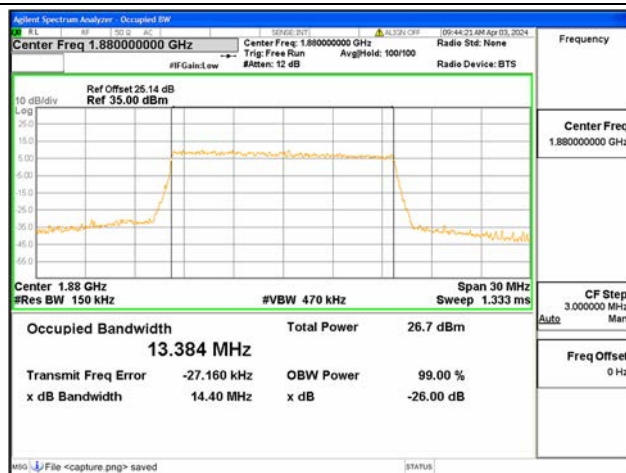
B2 / 15MHz / 16QAM/ Low CH



B2 / 15MHz / 64QAM/ Low CH



B2 / 15MHz / QPSK/ Mid CH



B2 / 15MHz / 16QAM/ Mid CH



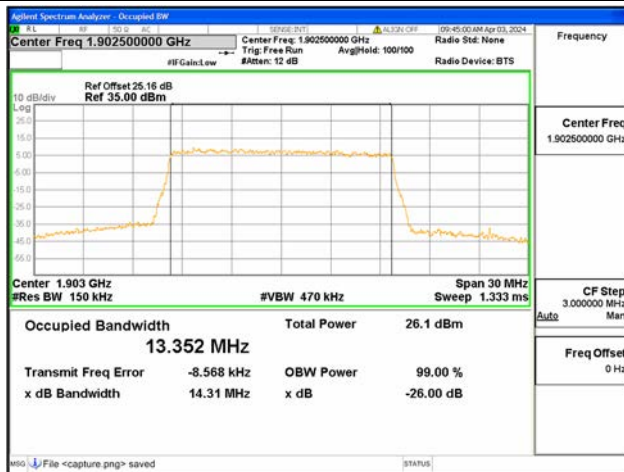
B2 / 15MHz / 64QAM/ Mid CH



B2 / 15MHz / QPSK/ High CH



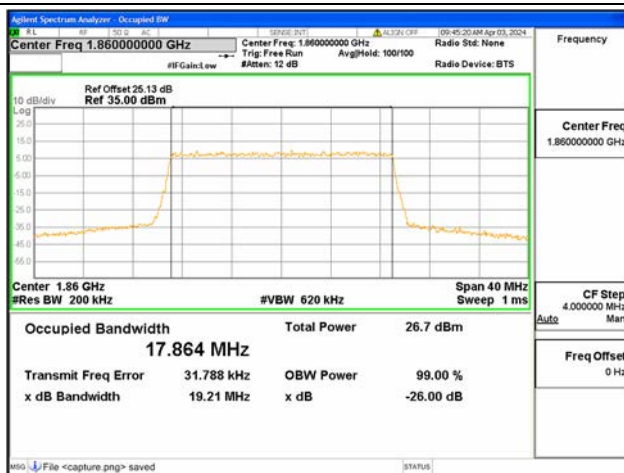
B2 / 15MHz / 16QAM/ High CH



B2 / 15MHz / 64QAM/ High CH



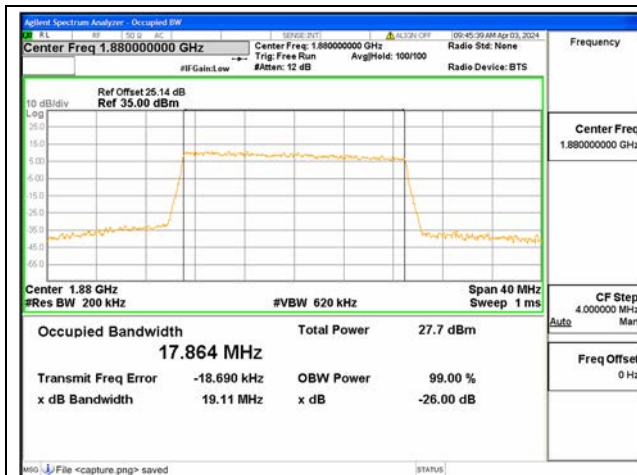
B2 / 20MHz / QPSK/ Low CH



B2 / 20MHz / 16QAM/ Low CH



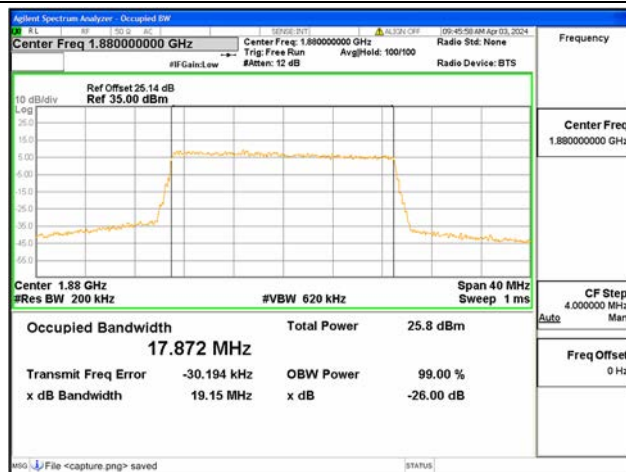
B2 / 20MHz / 64QAM/ Low CH



B2 / 20MHz / QPSK/ Mid CH



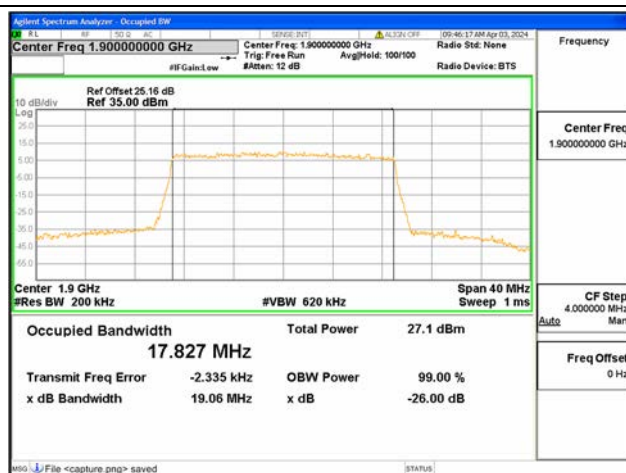
B2 / 20MHz / 16QAM/ Mid CH



B2 / 20MHz / 64QAM/ Mid CH



B2 / 20MHz / QPSK/ High CH



B2 / 20MHz / 16QAM/ High CH



B2 / 20MHz / 64QAM/ High CH



B4 / 1.4MHz / QPSK/ Low CH



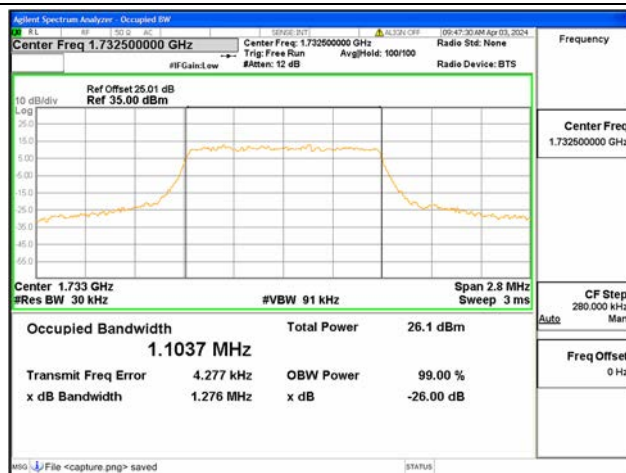
B4 / 1.4MHz / 16QAM/ Low CH



B4 / 1.4MHz / 64QAM/ Low CH



B4 / 1.4MHz / QPSK/ Mid CH



B4 / 1.4MHz / 16QAM/ Mid CH



B4 / 1.4MHz / 64QAM/ Mid CH



B4 / 1.4MHz / QPSK/ High CH



B4 / 1.4MHz / 16QAM/ High CH



B4 / 1.4MHz / 64QAM/ High CH



B4 / 3MHz / QPSK/ Low CH



B4 / 3MHz / 16QAM/ Low CH



B4 / 3MHz / 64QAM/ Low CH



B4 / 3MHz / QPSK/ Mid CH



B4 / 3MHz / 16QAM/ Mid CH



B4 / 3MHz / 64QAM/ Mid CH



B4 / 3MHz / QPSK/ High CH



B4 / 3MHz / 16QAM/ High CH



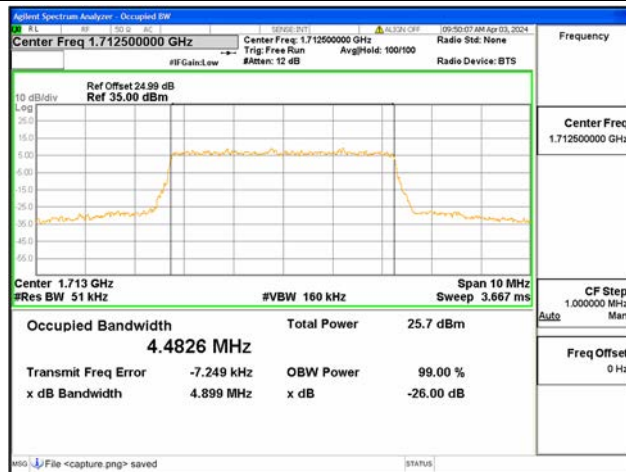
B4 / 3MHz / 64QAM/ High CH



B4 / 5MHz / QPSK/ Low CH



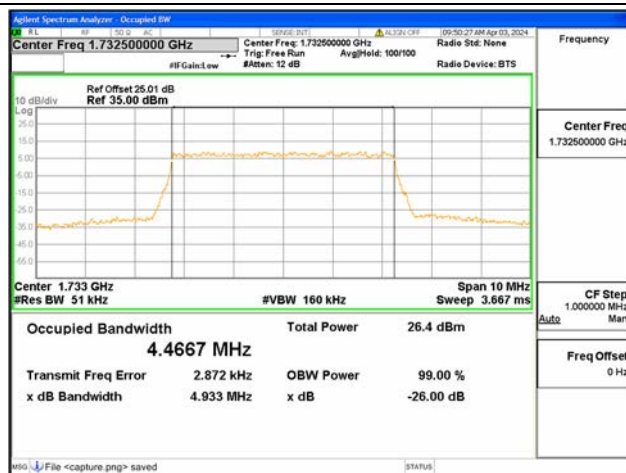
B4 / 5MHz / 16QAM/ Low CH



B4 / 5MHz / 64QAM/ Low CH



B4 / 5MHz / QPSK/ Mid CH



B4 / 5MHz / 16QAM/ Mid CH



B4 / 5MHz / 64QAM/ Mid CH



B4 / 5MHz / QPSK/ High CH



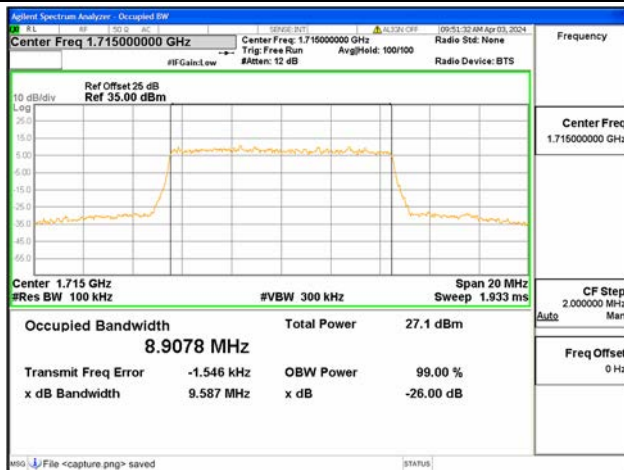
B4 / 5MHz / 16QAM/ High CH



B4 / 5MHz / 64QAM/ High CH



B4 / 10MHz / QPSK/ Low CH



B4 / 10MHz / 16QAM/ Low CH



B4 / 10MHz / 64QAM/ Low CH



B4 / 10MHz / QPSK/ Mid CH



B4 / 10MHz / 16QAM/ Mid CH



B4 / 10MHz / 64QAM/ Mid CH



B4 / 10MHz / QPSK/ High CH



B4 / 10MHz / 16QAM/ High CH



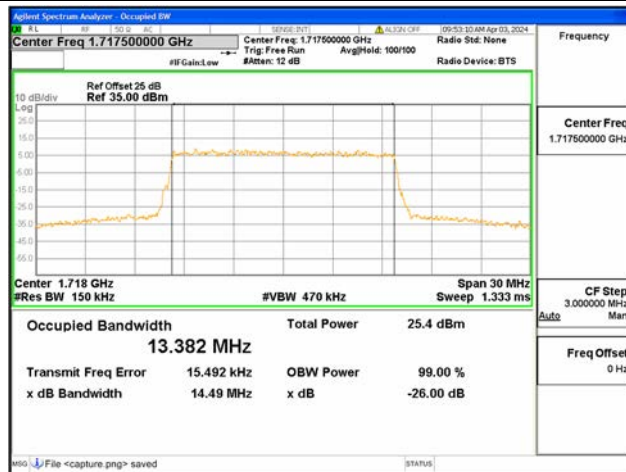
B4 / 10MHz / 64QAM/ High CH



B4 / 15MHz / QPSK/ Low CH



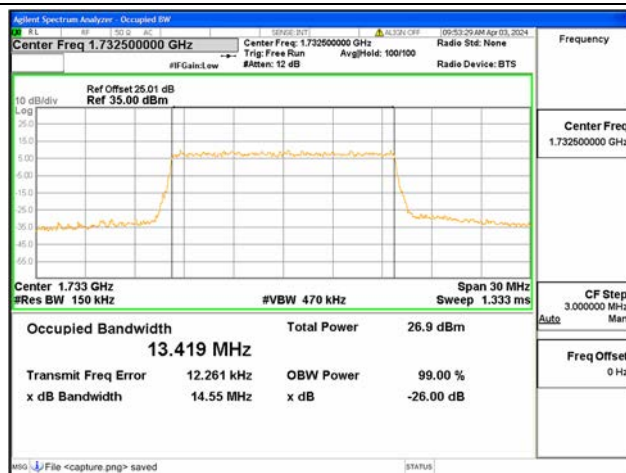
B4 / 15MHz / 16QAM/ Low CH



B4 / 15MHz / 64QAM/ Low CH



B4 / 15MHz / QPSK/ Mid CH



B4 / 15MHz / 16QAM/ Mid CH



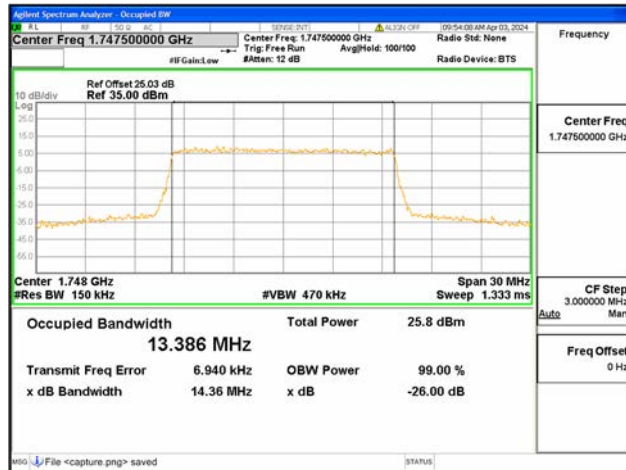
B4 / 15MHz / 64QAM/ Mid CH



B4 / 15MHz / QPSK/ High CH



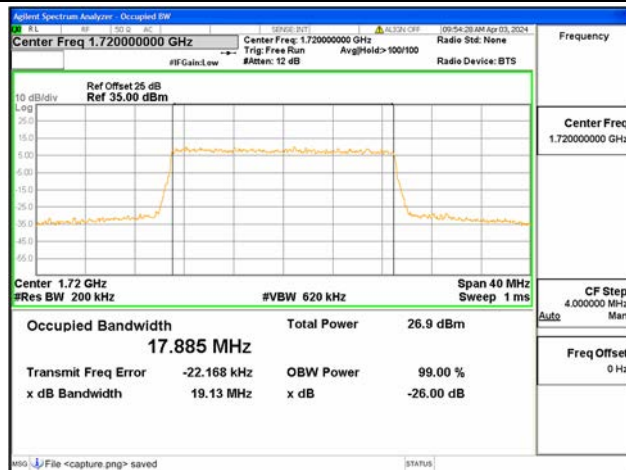
B4 / 15MHz / 16QAM/ High CH



B4 / 15MHz / 64QAM/ High CH



B4 / 20MHz / QPSK/ Low CH



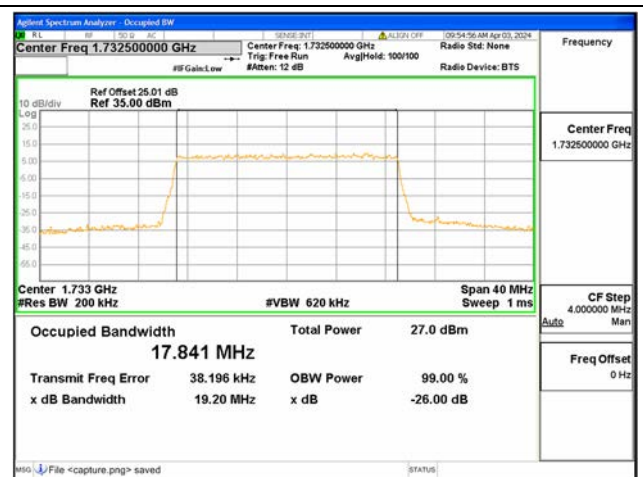
B4 / 20MHz / 16QAM/ Low CH



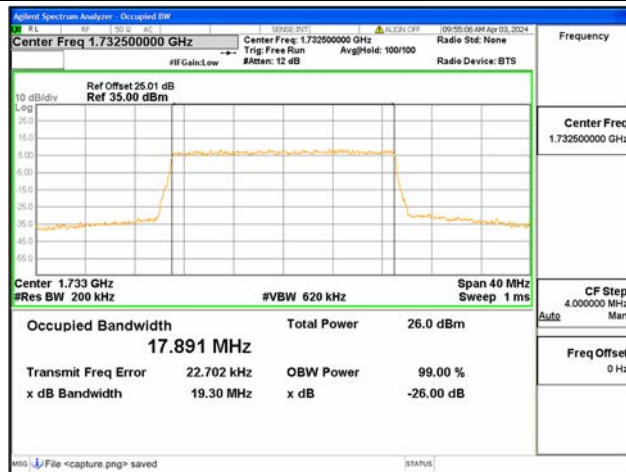
B4 / 20MHz / 64QAM/ Low CH



B4 / 20MHz / QPSK/ Mid CH



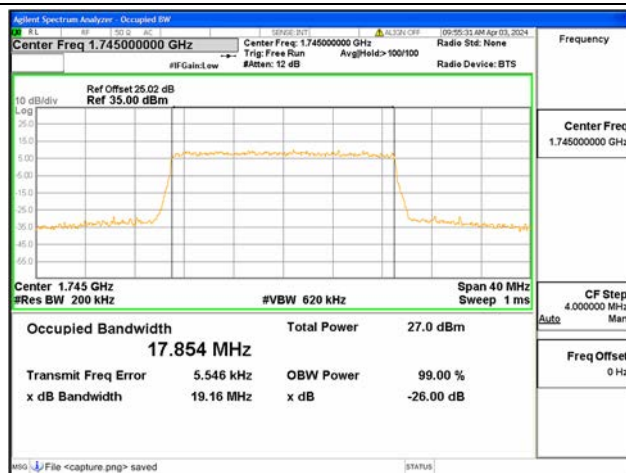
B4 / 20MHz / 16QAM/ Mid CH



B4 / 20MHz / 64QAM/ Mid CH



B4 / 20MHz / QPSK/ High CH



B4 / 20MHz / 16QAM/ High CH



B4 / 20MHz / 64QAM/ High CH



B5 / 1.4MHz / QPSK/ Low CH



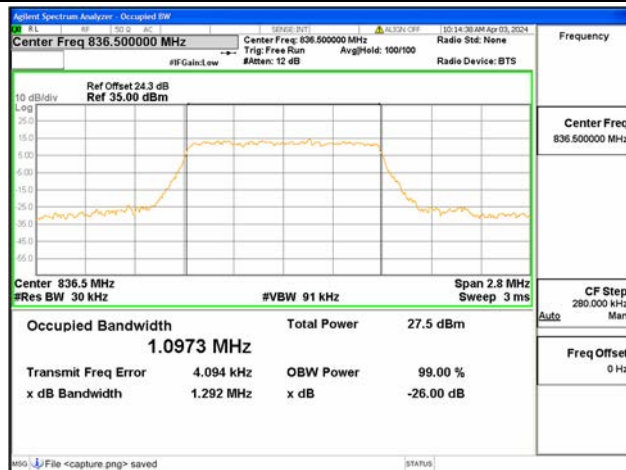
B5 / 1.4MHz / 16QAM/ Low CH



B5 / 1.4MHz / 64QAM/ Low CH



B5 / 1.4MHz / QPSK/ Mid CH



B5 / 1.4MHz / 16QAM/ Mid CH



B5 / 1.4MHz / 64QAM/ Mid CH



B5 / 1.4MHz / QPSK/ High CH



B5 / 1.4MHz / 16QAM/ High CH



B5 / 1.4MHz / 64QAM/ High CH



B5 / 3MHz / QPSK/ Low CH



B5 / 3MHz / 16QAM/ Low CH



B5 / 3MHz / 64QAM/ Low CH



B5 / 3MHz / QPSK/ Mid CH



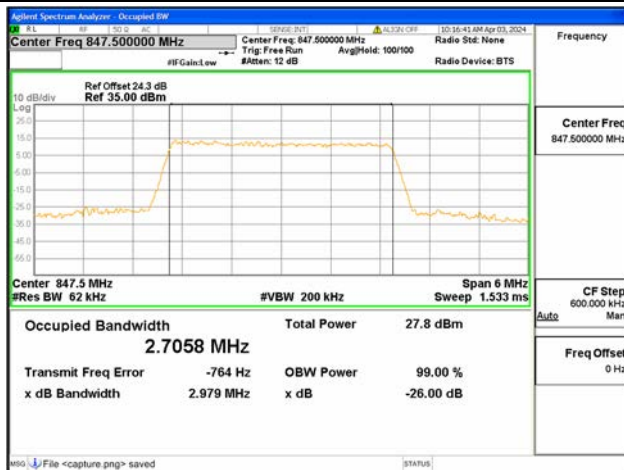
B5 / 3MHz / 16QAM/ Mid CH



B5 / 3MHz / 64QAM/ Mid CH



B5 / 3MHz / QPSK/ High CH



B5 / 3MHz / 16QAM/ High CH



B5 / 3MHz / 64QAM/ High CH