



REPORT No.: SZ24100314W06

TEST REPORT

APPLICANT : BLU Products, Inc.

PRODUCT NAME : Smart Phone

MODEL NAME : K20

BRAND NAME : BOLD

FCC ID : YHLBLU20KSP

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

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Change History		
Version	Date	Reason for change
1.0	2024-12-23	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.:	4#, 6#	
Hardware Version:	SPR_S60680_V1.0	
Software Version:	BOLD_K0170_V14.0.01.01_GENERIC_20241107	
Modulation Type:	QPSK, 16QAM, 64QAM	
Operation Band:	Band 2 / 4 / 5 / 7 / 12 / 13 / 17 / 38 / 40 / 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 7	Tx: 2500MHz–2570MHz
		Rx: 2620MHz–2690MHz
	LTE Band 12	Tx: 699MHz–716MHz
		Rx: 729MHz–746MHz
	LTE Band 13	Tx: 777MHz–787MHz
		Rx: 746MHz–756MHz
	LTE Band 17	Tx: 704MHz–716MHz
		Rx: 734MHz–746MHz
	LTE Band 38	Tx: 2570MHz–2620MHz
		Rx: 2570MHz–2620MHz
	LTE Band 40	Tx: 2305MHz–2315MHz



	Block A	Rx: 2305MHz–2315MHz
	LTE Band 40	Tx: 2350MHz–2360MHz
	Block B	Rx: 2350MHz–2360MHz
	LTE Band 66	Tx: 1710MHz –1780MHz Rx: 2110MHz–2200MHz
Channel Bandwidth:	LTE Band 2	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 4	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 5	1.4MHz, 3MHz, 5MHz, 10MHz
	LTE Band 7	5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 12	1.4MHz, 3 MHz, 5MHz, 10MHz
	LTE Band 13	5MHz, 10MHz
	LTE Band 17	5MHz, 10MHz
	LTE Band 38	5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 40	5 MHz, 10MHz
	LTE Band 66	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
Antenna Type:	PIFA Antenna	
Antenna Gain:	LTE Band 2	-5.80dBi
	LTE Band 4	-5.80dBi
	LTE Band 5	-6.80dBi
	LTE Band 7	-5.50dBi
	LTE Band 12	-7.00dBi
	LTE Band 13	-7.00dBi
	LTE Band 17	-7.00dBi
	LTE Band 38	-5.50dBi
	LTE Band 40	-5.50dBi
	LTE Band 66	-5.80dBi
Accessory Information:	Battery	
	Brand Name:	BOLD
	Model No.:	C976446500P
	Serial No.:	N/A
	Capacity:	5000mAh
	Rated Voltage:	3.85V
	Charge Limit:	4.4V
	Manufacturer:	GUANGDONG FENGHUA NEWENERGY CO.,LTD.
	AC Adapter	
	Brand Name:	BOLD



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	Model No.:	US-BJD-225Q
	Serial No.:	N/A
	Rated Output:	5.0V $\Rightarrow$ 3000mA, 9.0V $\Rightarrow$ 2500mA, 10.0V $\Rightarrow$ 2250mA, 12.0V $\Rightarrow$ 1500mA
	Rated Input:	100-240V $\sim$ 50/60Hz, 0.5A
	Manufacturer:	ShenZhen BaiJunDa Electronic Co., Ltd

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



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

LTE Band 2	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	0.061	0.049	0.039	17M9G7D	18M0W7D	18M0W7D
15	0.060	0.049	0.038	13M5G7D	13M4W7D	13M4W7D
10	0.061	0.048	0.038	8M96G7D	8M93W7D	8M96W7D
5	0.060	0.049	0.038	4M47G7D	4M48W7D	4M48W7D
3	0.060	0.049	0.038	2M72G7D	2M72W7D	2M71W7D
1.4	0.060	0.049	0.038	1M10G7D	1M10W7D	1M11W7D
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	0.053	0.044	0.035	17M9G7D	18M0W7D	17M9W7D
15	0.053	0.043	0.034	13M4G7D	13M4W7D	13M4W7D
10	0.052	0.043	0.034	8M96G7D	8M95W7D	8M96W7D
5	0.052	0.042	0.034	4M48G7D	4M48W7D	4M48W7D
3	0.052	0.043	0.034	2M72G7D	2M72W7D	2M72W7D
1.4	0.052	0.043	0.033	1M10G7D	1M10W7D	1M11W7D
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	0.026	0.022	0.017	8M95G7D	8M93W7D	8M96W7D
5	0.026	0.021	0.018	4M47G7D	4M47W7D	4M48W7D
3	0.026	0.021	0.017	2M72G7D	2M71W7D	2M71W7D
1.4	0.026	0.021	0.017	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	0.019	0.017	0.016	17M9G7D	17M9W7D	17M9W7D
15	0.019	0.016	0.015	13M5G7D	13M4W7D	13M4W7D
10	0.019	0.016	0.015	8M97G7D	8M94W7D	8M96W7D
5	0.019	0.016	0.015	4M47G7D	4M48W7D	4M48W7D
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	0.029	0.023	0.016	8M95G7D	8M94W7D	8M97W7D
5	0.028	0.023	0.016	4M47G7D	4M48W7D	4M48W7D
3	0.028	0.022	0.017	2M73G7D	2M72W7D	2M71W7D
1.4	0.028	0.022	0.016	1M10G7D	1M10W7D	1M11W7D



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	0.025	0.021	0.017	8M96G7D	8M94W7D	8M95W7D
5	0.024	0.020	0.016	4M48G7D	4M48W7D	4M48W7D
LTE Band 17	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.028	0.022	0.016	8M96G7D	8M94W7D	8M97W7D
5	0.028	0.022	0.016	4M47G7D	4M48W7D	4M48W7D
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	0.053	0.044	0.036	17M9G7D	17M9W7D	17M9W7D
15	0.052	0.042	0.034	13M4G7D	13M4W7D	13M4W7D
10	0.052	0.041	0.035	8M95G7D	8M94W7D	8M96W7D
5	0.052	0.042	0.034	4M47G7D	4M47W7D	4M48W7D
LTE Band 40 Block A	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.053	0.043	0.035	8M94G7D	8M93W7D	8M96W7D
5	0.053	0.043	0.035	4M48G7D	4M48W7D	4M48W7D
LTE Band 40 Block B	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.053	0.043	0.033	8M95G7D	8M94W7D	8M96W7D
5	0.053	0.043	0.034	4M47G7D	4M47W7D	4M49W7D
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	0.062	0.050	0.040	17M9G7D	17M9W7D	17M9W7D
15	0.061	0.050	0.040	13M5G7D	13M4W7D	13M4W7D
10	0.060	0.049	0.039	8M97G7D	8M95W7D	8M97W7D
5	0.061	0.049	0.039	4M48G7D	4M48W7D	4M48W7D
3	0.061	0.049	0.039	2M72G7D	2M72W7D	2M72W7D
1.4	0.060	0.049	0.039	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(a)(3) 27.50(b)(10) 27.50(c)(10) 27.50(d)(4) 27.50(h)(2)	Transmitter Conducted Output Power and E.R.P./E.I.R.P.	Dec. 12, 2024	Shen Biaohong Gan Jing	PASS	No deviation
2.1049	Occupied Bandwidth	Nov. 28, 2024	Gan Jing	PASS	No deviation
2.1055 22.355 24.235 27.54	Frequency Stability	Dec. 10, 2024	Gan Jing	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Nov. 28, 2024	Gan Jing	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(a)(4) 27.53(c)(2) 27.53(g) 27.53(h) 27.53(m)(4)	Conducted Spurious Emissions	Nov. 28, 2024	Gan Jing	PASS	No deviation



2.1051 22.917(a) 24.238(a) 27.53(a)(4) 27.53(c)(2) 27.53(g) 27.53(h) 27.53(m)(4)	Band Edge	Nov. 27, 2024	Gan Jing	PASS	No deviation
2.1053 22.917(a) 24.238(a) 27.53(a)(4) 27.53(c)(2) 27.53(g) 27.53(h) 27.53(m)(4)	Radiated Spurious Emissions	Nov. 18, 2024	Gao Jianrou	PASS	No deviation

Note 1: The tests were performed according to the method of measurements prescribed in KDB 971168 D01 v03 and ANSI/TIA-603-E-2016.

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.

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.

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 D&F&H&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 4/66, 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.

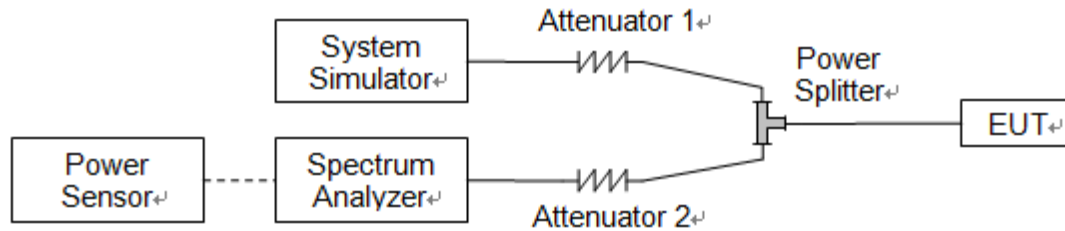
According to FCC section 27.50 (h)(2) for LTE Band 7/38, Mobile and other user stations. Mobile stations are limited to 2 watts E.I.R.P. All user stations are limited to 2 watts transmitter output power.

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.

According to FCC section 27.50 (c)(10) for LTE Band 12/17, Portable stations (hand-held devices) operating in the 704-716MHz band are limited to 3watts E.R.P.

According to FCC section 27.50 (a)(3) for LTE Band 40, For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average E.I.R.P. must not exceed 50 mill watts within any 1 megahertz of authorized bandwidth.

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	23.53	23.67	23.56
20	QPSK	1	49	23.43	23.52	23.41
20	QPSK	1	99	23.30	23.38	23.20
20	QPSK	50	0	22.47	22.55	22.49
20	QPSK	50	24	22.26	22.41	22.18
20	QPSK	50	50	21.96	22.27	21.89
20	QPSK	100	0	22.00	22.13	21.96
20	16QAM	1	0	22.50	22.72	22.60
20	16QAM	1	49	22.30	22.56	22.50
20	16QAM	1	99	22.20	22.38	22.50
20	16QAM	50	0	21.41	21.71	21.35
20	16QAM	50	24	21.15	21.43	21.20
20	16QAM	50	50	21.10	21.29	21.13
20	16QAM	100	0	21.20	21.01	21.17
20	64QAM	1	0	21.39	21.67	21.53
20	64QAM	1	49	21.26	21.53	21.43
20	64QAM	1	99	21.25	21.58	21.30
20	64QAM	50	0	21.01	21.20	21.01
20	64QAM	50	24	20.94	21.00	20.97
20	64QAM	50	50	20.93	20.95	20.90
20	64QAM	100	0	20.88	21.03	20.89



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	23.48	23.58	23.53
15	QPSK	1	37	23.35	23.44	23.35
15	QPSK	1	74	23.21	23.34	23.16
15	QPSK	36	0	22.39	22.49	22.38
15	QPSK	36	20	22.22	22.37	22.13
15	QPSK	36	39	21.93	22.19	21.85
15	QPSK	75	0	21.66	22.05	21.60
15	16QAM	1	0	22.42	22.67	22.56
15	16QAM	1	37	22.24	22.48	22.45
15	16QAM	1	74	22.14	22.32	22.47
15	16QAM	36	0	21.36	21.66	21.30
15	16QAM	36	20	21.07	21.36	21.16
15	16QAM	36	39	21.04	21.21	21.06
15	16QAM	75	0	21.17	20.97	21.12
15	64QAM	1	0	21.35	21.63	21.44
15	64QAM	1	37	21.20	21.50	21.37
15	64QAM	1	74	21.20	21.55	21.26
15	64QAM	36	0	20.95	21.16	20.96
15	64QAM	36	20	20.85	20.95	20.92
15	64QAM	36	39	20.86	20.88	20.82
15	64QAM	75	0	20.82	20.95	20.80



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	23.43	23.62	23.49
10	QPSK	1	25	23.38	23.46	23.34
10	QPSK	1	49	23.25	23.28	23.10
10	QPSK	25	0	22.36	22.48	22.39
10	QPSK	25	12	22.20	22.32	22.10
10	QPSK	25	25	21.87	22.20	21.83
10	QPSK	50	0	21.61	22.06	21.57
10	16QAM	1	0	22.45	22.62	22.54
10	16QAM	1	25	22.23	22.45	22.44
10	16QAM	1	49	22.14	22.28	22.41
10	16QAM	25	0	21.32	21.62	21.30
10	16QAM	25	12	21.09	21.38	21.13
10	16QAM	25	25	21.05	21.20	21.04
10	16QAM	50	0	21.09	20.95	21.11
10	64QAM	1	0	21.31	21.57	21.48
10	64QAM	1	25	21.19	21.47	21.37
10	64QAM	1	49	21.16	21.50	21.22
10	64QAM	25	0	20.90	21.11	20.91
10	64QAM	25	12	20.84	20.85	20.91
10	64QAM	25	25	20.83	20.86	20.83
10	64QAM	50	0	20.78	20.92	20.79



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	23.47	23.60	23.45
5	QPSK	1	12	23.32	23.46	23.36
5	QPSK	1	24	23.20	23.30	23.12
5	QPSK	12	0	22.39	22.45	22.40
5	QPSK	12	7	22.16	22.33	22.11
5	QPSK	12	13	21.90	22.18	21.84
5	QPSK	25	0	21.62	22.05	21.60
5	16QAM	1	0	22.41	22.66	22.53
5	16QAM	1	12	22.20	22.50	22.44
5	16QAM	1	24	22.14	22.29	22.40
5	16QAM	12	0	21.35	21.62	21.25
5	16QAM	12	7	21.07	21.37	21.14
5	16QAM	12	13	21.04	21.21	21.03
5	16QAM	25	0	21.14	20.93	21.11
5	64QAM	1	0	21.28	21.57	21.47
5	64QAM	1	12	21.21	21.46	21.33
5	64QAM	1	24	21.17	21.49	21.20
5	64QAM	12	0	20.95	21.08	20.94
5	64QAM	12	7	20.86	20.87	20.90
5	64QAM	12	13	20.86	20.85	20.81
5	64QAM	25	0	20.78	20.91	20.82



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	23.47	23.58	23.52
3	QPSK	1	8	23.35	23.45	23.33
3	QPSK	1	14	23.23	23.33	23.11
3	QPSK	8	0	22.41	22.50	22.43
3	QPSK	8	4	22.22	22.33	22.12
3	QPSK	8	7	21.90	22.23	21.84
3	QPSK	15	0	21.62	22.08	21.62
3	16QAM	1	0	22.43	22.67	22.55
3	16QAM	1	8	22.22	22.48	22.46
3	16QAM	1	14	22.11	22.33	22.44
3	16QAM	8	0	21.32	21.67	21.30
3	16QAM	8	4	21.12	21.37	21.12
3	16QAM	8	7	21.04	21.21	21.04
3	16QAM	15	0	21.14	20.93	21.13
3	64QAM	1	0	21.33	21.60	21.45
3	64QAM	1	8	21.21	21.46	21.35
3	64QAM	1	14	21.19	21.55	21.27
3	64QAM	8	0	20.93	21.08	20.93
3	64QAM	8	4	20.88	20.87	20.88
3	64QAM	8	7	20.89	20.85	20.85
3	64QAM	15	0	20.80	20.93	20.82



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	23.46	23.57	23.47
1.4	QPSK	1	3	23.36	23.45	23.34
1.4	QPSK	1	5	23.23	23.28	23.14
1.4	QPSK	3	0	22.38	22.47	22.39
1.4	QPSK	3	1	22.16	22.33	22.11
1.4	QPSK	3	3	21.86	22.20	21.80
1.4	QPSK	6	0	21.63	22.02	21.58
1.4	16QAM	1	0	22.43	22.66	22.54
1.4	16QAM	1	3	22.22	22.50	22.42
1.4	16QAM	1	5	22.15	22.28	22.42
1.4	16QAM	3	0	21.35	21.65	21.26
1.4	16QAM	3	1	21.05	21.35	21.13
1.4	16QAM	3	3	21.02	21.18	21.03
1.4	16QAM	6	0	21.15	20.95	21.09
1.4	64QAM	1	0	21.34	21.57	21.48
1.4	64QAM	1	3	21.18	21.44	21.37
1.4	64QAM	1	5	21.17	21.48	21.25
1.4	64QAM	3	0	20.95	21.03	20.92
1.4	64QAM	3	1	20.83	20.86	20.87
1.4	64QAM	3	3	20.88	20.87	20.81
1.4	64QAM	6	0	20.79	20.90	20.82



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	22.98	23.08	23.06
20	QPSK	1	49	22.82	22.92	22.92
20	QPSK	1	99	22.63	22.76	22.78
20	QPSK	50	0	21.87	22.05	22.01
20	QPSK	50	24	21.65	21.95	21.85
20	QPSK	50	50	21.53	21.80	21.67
20	QPSK	100	0	21.52	21.68	21.56
20	16QAM	1	0	22.06	22.22	22.10
20	16QAM	1	49	21.95	22.01	21.97
20	16QAM	1	99	21.84	21.81	21.79
20	16QAM	50	0	21.31	21.24	21.21
20	16QAM	50	24	21.17	21.02	21.09
20	16QAM	50	50	20.96	20.83	20.88
20	16QAM	100	0	20.76	20.66	20.71
20	64QAM	1	0	21.20	21.07	21.11
20	64QAM	1	49	21.12	20.99	21.06
20	64QAM	1	99	21.06	20.95	21.01
20	64QAM	50	0	20.74	20.58	20.67
20	64QAM	50	24	20.68	20.56	20.60
20	64QAM	50	50	20.66	20.52	20.59
20	64QAM	100	0	20.60	20.51	20.56



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	22.95	23.02	23.01
15	QPSK	1	37	22.76	22.89	22.88
15	QPSK	1	74	22.58	22.72	22.72
15	QPSK	36	0	21.79	22.00	21.93
15	QPSK	36	20	21.57	21.88	21.77
15	QPSK	36	39	21.49	21.74	21.62
15	QPSK	75	0	21.39	21.54	21.42
15	16QAM	1	0	22.00	22.18	22.04
15	16QAM	1	37	21.86	21.96	21.89
15	16QAM	1	74	21.80	21.73	21.71
15	16QAM	36	0	21.22	21.17	21.18
15	16QAM	36	20	21.10	20.93	21.05
15	16QAM	36	39	20.88	20.75	20.85
15	16QAM	75	0	20.68	20.58	20.66
15	64QAM	1	0	21.14	21.00	21.07
15	64QAM	1	37	21.09	20.96	21.02
15	64QAM	1	74	21.02	20.89	20.96
15	64QAM	36	0	20.65	20.52	20.60
15	64QAM	36	20	20.59	20.53	20.52
15	64QAM	36	39	20.62	20.45	20.53
15	64QAM	75	0	20.52	20.47	20.49



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	22.83	22.93	22.98
10	QPSK	1	25	22.67	22.81	22.78
10	QPSK	1	49	22.56	22.65	22.61
10	QPSK	25	0	21.79	21.93	21.84
10	QPSK	25	12	21.51	21.83	21.71
10	QPSK	25	25	21.43	21.65	21.53
10	QPSK	50	0	21.26	21.46	21.36
10	16QAM	1	0	21.98	22.12	21.98
10	16QAM	1	25	21.83	21.92	21.87
10	16QAM	1	49	21.72	21.67	21.64
10	16QAM	25	0	21.17	21.12	21.08
10	16QAM	25	12	21.03	20.90	20.98
10	16QAM	25	25	20.83	20.68	20.76
10	16QAM	50	0	20.64	20.55	20.62
10	64QAM	1	0	21.07	20.98	20.98
10	64QAM	1	25	21.05	20.91	20.94
10	64QAM	1	49	20.98	20.82	20.93
10	64QAM	25	0	20.65	20.45	20.51
10	64QAM	25	12	20.55	20.45	20.50
10	64QAM	25	25	20.55	20.45	20.47
10	64QAM	50	0	20.49	20.41	20.48



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	22.86	22.96	22.96
5	QPSK	1	12	22.68	22.83	22.81
5	QPSK	1	24	22.56	22.66	22.62
5	QPSK	12	0	21.73	21.90	21.87
5	QPSK	12	7	21.49	21.84	21.68
5	QPSK	12	13	21.41	21.64	21.51
5	QPSK	25	0	21.28	21.44	21.35
5	16QAM	1	0	21.98	22.08	21.98
5	16QAM	1	12	21.83	21.88	21.83
5	16QAM	1	24	21.71	21.69	21.68
5	16QAM	12	0	21.20	21.11	21.09
5	16QAM	12	7	21.02	20.94	20.97
5	16QAM	12	13	20.83	20.68	20.76
5	16QAM	25	0	20.69	20.52	20.63
5	64QAM	1	0	21.08	20.95	20.99
5	64QAM	1	12	21.03	20.89	20.91
5	64QAM	1	24	20.92	20.86	20.92
5	64QAM	12	0	20.61	20.45	20.53
5	64QAM	12	7	20.53	20.46	20.51
5	64QAM	12	13	20.54	20.45	20.46
5	64QAM	25	0	20.51	20.37	20.46



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	22.82	22.94	22.98
3	QPSK	1	8	22.68	22.86	22.81
3	QPSK	1	14	22.51	22.66	22.63
3	QPSK	8	0	21.75	21.91	21.88
3	QPSK	8	4	21.52	21.85	21.68
3	QPSK	8	7	21.45	21.69	21.54
3	QPSK	15	0	21.30	21.48	21.39
3	16QAM	1	0	21.98	22.10	21.99
3	16QAM	1	8	21.84	21.90	21.87
3	16QAM	1	14	21.76	21.64	21.66
3	16QAM	8	0	21.18	21.09	21.08
3	16QAM	8	4	21.02	20.92	21.01
3	16QAM	8	7	20.83	20.69	20.73
3	16QAM	15	0	20.67	20.54	20.58
3	64QAM	1	0	21.08	20.97	20.99
3	64QAM	1	8	21.02	20.89	20.94
3	64QAM	1	14	20.98	20.80	20.93
3	64QAM	8	0	20.63	20.46	20.53
3	64QAM	8	4	20.55	20.44	20.50
3	64QAM	8	7	20.50	20.41	20.51
3	64QAM	15	0	20.50	20.39	20.48



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	22.83	22.96	22.99
1.4	QPSK	1	3	22.70	22.86	22.77
1.4	QPSK	1	5	22.54	22.67	22.64
1.4	QPSK	3	0	21.77	21.91	21.86
1.4	QPSK	3	1	21.54	21.84	21.72
1.4	QPSK	3	3	21.41	21.63	21.53
1.4	QPSK	6	0	21.27	21.48	21.35
1.4	16QAM	1	0	21.93	22.11	22.03
1.4	16QAM	1	3	21.78	21.92	21.87
1.4	16QAM	1	5	21.75	21.70	21.67
1.4	16QAM	3	0	21.20	21.11	21.07
1.4	16QAM	3	1	20.99	20.91	20.99
1.4	16QAM	3	3	20.84	20.69	20.74
1.4	16QAM	6	0	20.65	20.52	20.61
1.4	64QAM	1	0	21.05	20.95	21.01
1.4	64QAM	1	3	21.05	20.90	20.95
1.4	64QAM	1	5	20.93	20.83	20.89
1.4	64QAM	3	0	20.62	20.46	20.51
1.4	64QAM	3	1	20.56	20.47	20.50
1.4	64QAM	3	3	20.55	20.44	20.50
1.4	64QAM	6	0	20.48	20.36	20.46



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	23.10	23.14	23.13
10	QPSK	1	25	22.98	23.00	22.93
10	QPSK	1	49	22.84	22.90	22.77
10	QPSK	25	0	22.08	22.14	22.03
10	QPSK	25	12	21.94	21.95	21.82
10	QPSK	25	25	21.77	21.81	21.68
10	QPSK	50	0	21.67	21.68	21.59
10	16QAM	1	0	22.27	22.38	22.17
10	16QAM	1	25	22.08	22.18	22.00
10	16QAM	1	49	21.87	22.00	21.89
10	16QAM	25	0	21.29	21.50	21.37
10	16QAM	25	12	21.15	21.29	21.15
10	16QAM	25	25	20.98	21.10	20.99
10	16QAM	50	0	20.82	20.93	20.87
10	64QAM	1	0	21.21	21.33	21.28
10	64QAM	1	25	21.19	21.26	21.22
10	64QAM	1	49	21.12	21.24	21.16
10	64QAM	25	0	20.82	20.88	20.85
10	64QAM	25	12	20.77	20.82	20.84
10	64QAM	25	25	20.70	20.80	20.83
10	64QAM	50	0	20.67	20.73	20.80



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	23.08	23.08	23.10
5	QPSK	1	12	22.86	22.92	22.91
5	QPSK	1	24	22.71	22.76	22.73
5	QPSK	12	0	21.89	22.01	21.95
5	QPSK	12	7	21.70	21.81	21.83
5	QPSK	12	13	21.56	21.74	21.72
5	QPSK	25	0	21.47	21.51	21.53
5	16QAM	1	0	22.08	22.14	22.08
5	16QAM	1	12	21.91	22.02	21.98
5	16QAM	1	24	21.80	21.86	21.83
5	16QAM	12	0	21.22	21.32	21.30
5	16QAM	12	7	21.16	21.21	21.12
5	16QAM	12	13	21.01	21.03	20.92
5	16QAM	25	0	20.77	20.94	20.67
5	64QAM	1	0	21.21	21.39	21.07
5	64QAM	1	12	21.12	21.30	20.94
5	64QAM	1	24	21.09	21.25	20.98
5	64QAM	12	0	20.79	20.98	20.63
5	64QAM	12	7	20.76	20.96	20.60
5	64QAM	12	13	20.73	20.93	20.57
5	64QAM	25	0	20.68	20.91	20.50



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	23.02	23.04	23.03
3	QPSK	1	8	22.82	22.88	22.93
3	QPSK	1	14	22.62	22.69	22.64
3	QPSK	8	0	21.87	21.97	21.91
3	QPSK	8	4	21.64	21.77	21.74
3	QPSK	8	7	21.47	21.65	21.63
3	QPSK	15	0	21.36	21.51	21.41
3	16QAM	1	0	22.02	22.10	22.02
3	16QAM	1	8	21.84	21.96	21.93
3	16QAM	1	14	21.74	21.79	21.81
3	16QAM	8	0	21.18	21.28	21.22
3	16QAM	8	4	21.05	21.11	21.03
3	16QAM	8	7	20.95	20.98	20.85
3	16QAM	15	0	20.73	20.83	20.63
3	64QAM	1	0	21.19	21.27	21.02
3	64QAM	1	8	21.04	21.28	20.91
3	64QAM	1	14	21.06	21.24	20.90
3	64QAM	8	0	20.72	20.88	20.59
3	64QAM	8	4	20.70	20.85	20.56
3	64QAM	8	7	20.67	20.87	20.50
3	64QAM	15	0	20.68	20.80	20.50



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	22.99	23.07	23.06
1.4	QPSK	1	3	22.80	22.87	22.91
1.4	QPSK	1	5	22.65	22.72	22.63
1.4	QPSK	3	0	21.83	21.94	21.94
1.4	QPSK	3	1	21.62	21.82	21.76
1.4	QPSK	3	3	21.47	21.69	21.61
1.4	QPSK	6	0	21.35	21.52	21.40
1.4	16QAM	1	0	22.05	22.09	22.02
1.4	16QAM	1	3	21.87	22.01	21.91
1.4	16QAM	1	5	21.73	21.79	21.77
1.4	16QAM	3	0	21.18	21.30	21.20
1.4	16QAM	3	1	21.08	21.13	21.04
1.4	16QAM	3	3	20.93	21.01	20.84
1.4	16QAM	6	0	20.70	20.84	20.58
1.4	64QAM	1	0	21.15	21.28	20.99
1.4	64QAM	1	3	21.06	21.26	20.95
1.4	64QAM	1	5	21.04	21.25	20.88
1.4	64QAM	3	0	20.70	20.90	20.56
1.4	64QAM	3	1	20.70	20.86	20.55
1.4	64QAM	3	3	20.71	20.86	20.52
1.4	64QAM	6	0	20.67	20.84	20.45



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	18.28	18.39	18.34
20	QPSK	1	49	18.23	18.20	18.28
20	QPSK	1	99	18.18	18.03	18.15
20	QPSK	50	0	17.42	17.45	17.39
20	QPSK	50	24	17.33	17.36	17.37
20	QPSK	50	50	17.31	17.21	17.17
20	QPSK	100	0	17.13	17.14	17.02
20	16QAM	1	0	17.72	17.60	17.72
20	16QAM	1	49	17.50	17.48	17.54
20	16QAM	1	99	17.31	17.36	17.35
20	16QAM	50	0	17.04	17.11	17.14
20	16QAM	50	24	17.13	17.26	17.32
20	16QAM	50	50	17.00	17.12	17.18
20	16QAM	100	0	16.85	16.99	16.98
20	64QAM	1	0	17.22	17.35	17.43
20	64QAM	1	49	17.18	17.34	17.36
20	64QAM	1	99	17.12	17.33	17.33
20	64QAM	50	0	16.92	16.95	17.01
20	64QAM	50	24	16.97	16.88	16.93
20	64QAM	50	50	16.90	16.82	16.89
20	64QAM	100	0	16.93	16.76	16.86



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	18.18	18.32	18.30
15	QPSK	1	37	18.25	18.14	18.22
15	QPSK	1	74	18.09	17.94	18.12
15	QPSK	36	0	17.56	17.42	17.49
15	QPSK	36	20	17.37	17.29	17.29
15	QPSK	36	39	17.24	17.10	17.11
15	QPSK	75	0	17.07	16.88	16.94
15	16QAM	1	0	17.64	17.54	17.65
15	16QAM	1	37	17.43	17.43	17.47
15	16QAM	1	74	17.24	17.32	17.30
15	16QAM	36	0	16.96	17.03	17.08
15	16QAM	36	20	17.04	17.20	17.25
15	16QAM	36	39	16.92	17.05	17.12
15	16QAM	75	0	16.78	16.90	16.89
15	64QAM	1	0	17.18	17.28	17.35
15	64QAM	1	37	17.14	17.29	17.30
15	64QAM	1	74	17.04	17.30	17.30
15	64QAM	36	0	16.87	16.88	16.94
15	64QAM	36	20	16.94	16.84	16.86
15	64QAM	36	39	16.85	16.78	16.86
15	64QAM	75	0	16.84	16.69	16.78



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	18.12	18.29	18.25
10	QPSK	1	25	18.19	18.06	18.15
10	QPSK	1	49	18.01	17.88	18.09
10	QPSK	25	0	17.53	17.37	17.42
10	QPSK	25	12	17.30	17.24	17.22
10	QPSK	25	25	17.16	17.04	17.04
10	QPSK	50	0	16.98	16.85	16.90
10	16QAM	1	0	17.57	17.46	17.60
10	16QAM	1	25	17.35	17.37	17.42
10	16QAM	1	49	17.17	17.26	17.27
10	16QAM	25	0	16.88	16.99	17.04
10	16QAM	25	12	16.96	17.16	17.18
10	16QAM	25	25	16.85	17.00	17.04
10	16QAM	50	0	16.71	16.81	16.82
10	64QAM	1	0	17.11	17.20	17.29
10	64QAM	1	25	17.07	17.26	17.23
10	64QAM	1	49	16.96	17.24	17.26
10	64QAM	25	0	16.78	16.84	16.87
10	64QAM	25	12	16.89	16.79	16.79
10	64QAM	25	25	16.79	16.73	16.80
10	64QAM	50	0	16.77	16.61	16.70



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	18.11	18.28	18.24
5	QPSK	1	12	18.16	18.11	18.15
5	QPSK	1	24	18.05	17.88	18.04
5	QPSK	12	0	17.49	17.39	17.45
5	QPSK	12	7	17.29	17.20	17.22
5	QPSK	12	13	17.17	17.02	17.02
5	QPSK	25	0	17.02	16.84	16.86
5	16QAM	1	0	17.57	17.46	17.61
5	16QAM	1	12	17.38	17.35	17.43
5	16QAM	1	24	17.18	17.27	17.23
5	16QAM	12	0	16.92	16.98	17.04
5	16QAM	12	7	16.95	17.12	17.18
5	16QAM	12	13	16.86	17.00	17.06
5	16QAM	25	0	16.70	16.83	16.84
5	64QAM	1	0	17.11	17.22	17.28
5	64QAM	1	12	17.10	17.22	17.26
5	64QAM	1	24	16.98	17.24	17.22
5	64QAM	12	0	16.79	16.80	16.89
5	64QAM	12	7	16.91	16.79	16.78
5	64QAM	12	13	16.80	16.71	16.78
5	64QAM	25	0	16.81	16.63	16.75



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	23.67	23.71	23.65
10	QPSK	1	25	23.53	23.51	23.49
10	QPSK	1	49	23.31	23.33	23.31
10	QPSK	25	0	22.50	22.63	22.60
10	QPSK	25	12	22.47	22.49	22.40
10	QPSK	25	25	22.39	22.32	22.31
10	QPSK	50	0	22.33	22.35	22.30
10	16QAM	1	0	22.73	22.73	22.68
10	16QAM	1	25	22.62	22.54	22.48
10	16QAM	1	49	22.41	22.44	22.37
10	16QAM	25	0	21.88	21.83	21.80
10	16QAM	25	12	21.69	21.62	21.64
10	16QAM	25	25	21.57	21.43	21.43
10	16QAM	50	0	21.43	21.25	21.29
10	64QAM	1	0	21.29	21.10	21.18
10	64QAM	1	25	21.27	21.06	21.11
10	64QAM	1	49	21.24	21.06	21.06
10	64QAM	25	0	20.89	20.75	20.69
10	64QAM	25	12	20.88	20.73	20.63
10	64QAM	25	25	20.83	20.68	20.59
10	64QAM	50	0	20.77	20.68	20.55



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	23.63	23.65	23.61
5	QPSK	1	12	23.49	23.47	23.43
5	QPSK	1	24	23.24	23.24	23.26
5	QPSK	12	0	22.44	22.54	22.55
5	QPSK	12	7	22.31	22.42	22.35
5	QPSK	12	13	22.29	22.34	22.37
5	QPSK	25	0	22.30	22.28	22.26
5	16QAM	1	0	22.69	22.67	22.60
5	16QAM	1	12	22.57	22.46	22.39
5	16QAM	1	24	22.32	22.35	22.32
5	16QAM	12	0	21.82	21.79	21.75
5	16QAM	12	7	21.63	21.56	21.59
5	16QAM	12	13	21.53	21.40	21.34
5	16QAM	25	0	21.39	21.20	21.23
5	64QAM	1	0	21.21	21.05	21.12
5	64QAM	1	12	21.22	21.01	21.03
5	64QAM	1	24	21.21	21.02	21.01
5	64QAM	12	0	20.85	20.66	20.61
5	64QAM	12	7	20.79	20.70	20.58
5	64QAM	12	13	20.79	20.63	20.53
5	64QAM	25	0	20.72	20.60	20.47



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	23.53	23.59	23.50
3	QPSK	1	8	23.44	23.41	23.38
3	QPSK	1	14	23.19	23.21	23.15
3	QPSK	8	0	22.38	22.44	22.47
3	QPSK	8	4	22.25	22.34	22.30
3	QPSK	8	7	22.27	22.28	22.39
3	QPSK	15	0	22.22	22.31	22.24
3	16QAM	1	0	22.59	22.61	22.52
3	16QAM	1	8	22.50	22.41	22.38
3	16QAM	1	14	22.30	22.31	22.27
3	16QAM	8	0	21.77	21.68	21.68
3	16QAM	8	4	21.59	21.49	21.50
3	16QAM	8	7	21.44	21.33	21.30
3	16QAM	15	0	21.32	21.13	21.18
3	64QAM	1	0	21.43	21.49	21.45
3	64QAM	1	8	21.38	21.39	21.32
3	64QAM	1	14	21.35	21.42	21.37
3	64QAM	8	0	20.80	20.64	20.55
3	64QAM	8	4	20.76	20.60	20.53
3	64QAM	8	7	20.72	20.57	20.48
3	64QAM	15	0	20.66	20.56	20.42



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	23.55	23.57	23.51
1.4	QPSK	1	3	23.43	23.37	23.41
1.4	QPSK	1	5	23.16	23.19	23.15
1.4	QPSK	3	0	22.38	22.46	22.50
1.4	QPSK	3	1	22.26	22.37	22.32
1.4	QPSK	3	3	22.10	22.19	22.10
1.4	QPSK	6	0	22.02	22.02	21.86
1.4	16QAM	1	0	22.60	22.63	22.56
1.4	16QAM	1	3	22.48	22.41	22.40
1.4	16QAM	1	5	22.30	22.33	22.24
1.4	16QAM	3	0	21.76	21.69	21.65
1.4	16QAM	3	1	21.59	21.53	21.49
1.4	16QAM	3	3	21.47	21.30	21.31
1.4	16QAM	6	0	21.29	21.10	21.17
1.4	64QAM	1	0	21.12	20.99	21.04
1.4	64QAM	1	3	21.17	20.98	21.00
1.4	64QAM	1	5	21.13	20.92	20.97
1.4	64QAM	3	0	20.81	20.67	20.58
1.4	64QAM	3	1	20.71	20.65	20.49
1.4	64QAM	3	3	20.70	20.60	20.47
1.4	64QAM	6	0	20.65	20.54	20.41



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	/	23.06	/
10	QPSK	1	25	/	22.93	/
10	QPSK	1	49	/	22.81	/
10	QPSK	25	0	/	22.10	/
10	QPSK	25	12	/	21.93	/
10	QPSK	25	25	/	21.78	/
10	QPSK	50	0	/	21.62	/
10	16QAM	1	0	/	22.29	/
10	16QAM	1	25	/	22.11	/
10	16QAM	1	49	/	21.93	/
10	16QAM	25	0	/	21.43	/
10	16QAM	25	12	/	21.31	/
10	16QAM	25	25	/	21.11	/
10	16QAM	50	0	/	21.01	/
10	64QAM	1	0	/	21.35	/
10	64QAM	1	25	/	21.32	/
10	64QAM	1	49	/	21.29	/
10	64QAM	25	0	/	20.47	/
10	64QAM	25	12	/	20.46	/
10	64QAM	25	25	/	20.44	/
10	64QAM	50	0	/	20.38	/



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	22.93	22.99	22.99
5	QPSK	1	12	22.77	22.88	22.78
5	QPSK	1	24	22.65	22.77	22.62
5	QPSK	12	0	21.89	22.06	21.80
5	QPSK	12	7	21.73	21.88	21.59
5	QPSK	12	13	21.63	21.70	21.39
5	QPSK	25	0	21.53	21.55	21.16
5	16QAM	1	0	22.19	22.23	21.79
5	16QAM	1	12	21.97	22.03	21.60
5	16QAM	1	24	21.76	21.84	21.51
5	16QAM	12	0	21.16	21.39	21.02
5	16QAM	12	7	21.04	21.23	20.82
5	16QAM	12	13	20.89	21.05	20.68
5	16QAM	25	0	20.72	20.98	20.50
5	64QAM	1	0	21.09	21.28	20.85
5	64QAM	1	12	21.04	21.26	20.79
5	64QAM	1	24	20.97	21.26	20.78
5	64QAM	12	0	20.18	20.44	19.99
5	64QAM	12	7	20.11	20.40	19.92
5	64QAM	12	13	20.07	20.41	19.88
5	64QAM	25	0	19.99	20.33	19.83



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23780	23790	23800
Frequency (MHz)				709	710	711
10	QPSK	1	0	23.54	23.63	23.52
10	QPSK	1	25	23.44	23.40	23.40
10	QPSK	1	49	23.22	23.20	23.20
10	QPSK	25	0	22.41	22.45	22.46
10	QPSK	25	12	22.29	22.36	22.30
10	QPSK	25	25	22.13	22.18	22.15
10	QPSK	50	0	22.06	22.03	21.89
10	16QAM	1	0	22.63	22.63	22.59
10	16QAM	1	25	22.53	22.42	22.40
10	16QAM	1	49	22.32	22.36	22.26
10	16QAM	25	0	21.77	21.75	21.66
10	16QAM	25	12	21.57	21.51	21.53
10	16QAM	25	25	21.48	21.34	21.32
10	16QAM	50	0	21.35	21.10	21.20
10	64QAM	1	0	21.15	20.95	21.06
10	64QAM	1	25	21.22	20.96	21.01
10	64QAM	1	49	21.18	20.98	20.95
10	64QAM	25	0	20.80	20.67	20.62
10	64QAM	25	12	20.74	20.63	20.53
10	64QAM	25	25	20.72	20.58	20.48
10	64QAM	50	0	20.68	20.56	20.42



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23755	23790	23825
Frequency (MHz)				706.5	710	713.5
5	QPSK	1	0	23.51	23.55	23.45
5	QPSK	1	12	23.39	23.32	23.35
5	QPSK	1	24	23.17	23.14	23.13
5	QPSK	12	0	22.36	22.41	22.42
5	QPSK	12	7	22.22	22.29	22.24
5	QPSK	12	13	22.06	22.15	22.09
5	QPSK	25	0	22.01	21.97	21.82
5	16QAM	1	0	22.60	22.58	22.52
5	16QAM	1	12	22.47	22.33	22.33
5	16QAM	1	24	22.27	22.32	22.17
5	16QAM	12	0	21.68	21.70	21.58
5	16QAM	12	7	21.53	21.45	21.48
5	16QAM	12	13	21.44	21.30	21.27
5	16QAM	25	0	21.31	21.06	21.14
5	64QAM	1	0	21.11	20.89	21.03
5	64QAM	1	12	21.15	20.89	20.95
5	64QAM	1	24	21.11	20.93	20.90
5	64QAM	12	0	20.72	20.61	20.56
5	64QAM	12	7	20.69	20.56	20.47
5	64QAM	12	13	20.65	20.52	20.40
5	64QAM	25	0	20.60	20.50	20.38



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	22.65	22.78	22.74
20	QPSK	1	49	22.65	22.68	22.64
20	QPSK	1	99	22.52	22.47	22.51
20	QPSK	50	0	21.72	21.72	21.79
20	QPSK	50	24	21.61	21.57	21.66
20	QPSK	50	50	21.40	21.43	21.50
20	QPSK	100	0	21.24	21.32	21.30
20	16QAM	1	0	21.93	21.91	21.91
20	16QAM	1	49	21.73	21.75	21.74
20	16QAM	1	99	21.59	21.61	21.56
20	16QAM	50	0	21.01	21.06	21.03
20	16QAM	50	24	20.90	20.95	20.90
20	16QAM	50	50	20.75	20.76	20.75
20	16QAM	100	0	20.59	20.65	20.58
20	64QAM	1	0	20.98	21.01	21.00
20	64QAM	1	49	20.90	21.00	20.96
20	64QAM	1	99	20.84	20.97	20.95
20	64QAM	50	0	20.53	20.60	20.58
20	64QAM	50	24	20.47	20.59	20.55
20	64QAM	50	50	20.42	20.51	20.50
20	64QAM	100	0	20.37	20.45	20.50



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	22.61	22.66	22.61
15	QPSK	1	37	22.42	22.51	22.45
15	QPSK	1	74	22.31	22.30	22.29
15	QPSK	36	0	21.49	21.50	21.50
15	QPSK	36	20	21.33	21.31	21.33
15	QPSK	36	39	21.21	21.10	21.19
15	QPSK	75	0	21.10	20.95	21.07
15	16QAM	1	0	21.75	21.64	21.68
15	16QAM	1	37	21.64	21.53	21.54
15	16QAM	1	74	21.49	21.34	21.38
15	16QAM	36	0	20.96	20.81	20.76
15	16QAM	36	20	20.76	20.68	20.63
15	16QAM	36	39	20.59	20.46	20.47
15	16QAM	75	0	20.40	20.30	20.34
15	64QAM	1	0	20.77	20.64	20.74
15	64QAM	1	37	20.75	20.58	20.73
15	64QAM	1	74	20.71	20.52	20.66
15	64QAM	36	0	20.38	20.22	20.33
15	64QAM	36	20	20.35	20.22	20.26
15	64QAM	36	39	20.31	20.17	20.22
15	64QAM	75	0	20.24	20.12	20.18



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	22.62	22.63	22.61
10	QPSK	1	25	22.46	22.47	22.43
10	QPSK	1	49	22.23	22.27	22.27
10	QPSK	25	0	21.41	21.46	21.43
10	QPSK	25	12	21.24	21.26	21.30
10	QPSK	25	25	21.09	21.15	21.23
10	QPSK	50	0	20.98	20.91	21.12
10	16QAM	1	0	21.62	21.55	21.67
10	16QAM	1	25	21.42	21.45	21.55
10	16QAM	1	49	21.31	21.24	21.42
10	16QAM	25	0	20.78	20.72	20.87
10	16QAM	25	12	20.59	20.56	20.74
10	16QAM	25	25	20.51	20.34	20.53
10	16QAM	50	0	20.38	20.14	20.45
10	64QAM	1	0	20.78	20.54	20.88
10	64QAM	1	25	20.75	20.48	20.81
10	64QAM	1	49	20.72	20.45	20.75
10	64QAM	25	0	20.33	20.09	20.42
10	64QAM	25	12	20.25	20.12	20.40
10	64QAM	25	25	20.23	20.07	20.36
10	64QAM	50	0	20.22	19.99	20.29



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	22.58	22.62	22.61
5	QPSK	1	12	22.42	22.45	22.42
5	QPSK	1	24	22.21	22.28	22.24
5	QPSK	12	0	21.42	21.42	21.45
5	QPSK	12	7	21.21	21.29	21.35
5	QPSK	12	13	21.12	21.15	21.24
5	QPSK	25	0	21.00	20.95	21.10
5	16QAM	1	0	21.65	21.58	21.70
5	16QAM	1	12	21.42	21.47	21.51
5	16QAM	1	24	21.35	21.24	21.43
5	16QAM	12	0	20.76	20.69	20.89
5	16QAM	12	7	20.63	20.53	20.76
5	16QAM	12	13	20.50	20.37	20.53
5	16QAM	25	0	20.38	20.15	20.43
5	64QAM	1	0	20.77	20.53	20.87
5	64QAM	1	12	20.76	20.52	20.77
5	64QAM	1	24	20.69	20.45	20.73
5	64QAM	12	0	20.34	20.09	20.43
5	64QAM	12	7	20.25	20.06	20.41
5	64QAM	12	13	20.23	20.07	20.38
5	64QAM	25	0	20.24	20.03	20.32



LTE Band 40, Block A						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	38750	/
Frequency (MHz)				/	2310	/
10	QPSK	1	0	/	22.72	/
10	QPSK	1	25	/	22.53	/
10	QPSK	1	49	/	22.33	/
10	QPSK	25	0	/	21.70	/
10	QPSK	25	12	/	21.44	/
10	QPSK	25	25	/	21.32	/
10	QPSK	50	0	/	21.15	/
10	16QAM	1	0	/	21.85	/
10	16QAM	1	25	/	21.71	/
10	16QAM	1	49	/	21.52	/
10	16QAM	25	0	/	20.93	/
10	16QAM	25	12	/	20.79	/
10	16QAM	25	25	/	20.68	/
10	16QAM	50	0	/	20.53	/
10	64QAM	1	0	/	20.99	/
10	64QAM	1	25	/	20.94	/
10	64QAM	1	49	/	20.93	/
10	64QAM	25	0	/	20.57	/
10	64QAM	25	12	/	20.54	/
10	64QAM	25	25	/	20.46	/
10	64QAM	50	0	/	20.41	/



LTE Band 40, Block A						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				38725	38750	38775
Frequency (MHz)				2307.5	2310	2312.5
5	QPSK	1	0	22.70	22.71	22.66
5	QPSK	1	12	22.56	22.51	22.50
5	QPSK	1	24	22.40	22.28	22.34
5	QPSK	12	0	21.68	21.62	21.53
5	QPSK	12	7	21.51	21.41	21.34
5	QPSK	12	13	21.37	21.25	21.19
5	QPSK	25	0	21.15	21.13	20.99
5	16QAM	1	0	21.84	21.79	21.60
5	16QAM	1	12	21.67	21.63	21.44
5	16QAM	1	24	21.51	21.47	21.21
5	16QAM	12	0	20.87	20.87	20.63
5	16QAM	12	7	20.70	20.73	20.40
5	16QAM	12	13	20.53	20.64	20.30
5	16QAM	25	0	20.36	20.48	20.14
5	64QAM	1	0	20.69	20.93	20.44
5	64QAM	1	12	20.68	20.87	20.40
5	64QAM	1	24	20.61	20.86	20.38
5	64QAM	12	0	20.32	20.52	20.07
5	64QAM	12	7	20.31	20.48	20.07
5	64QAM	12	13	20.29	20.43	20.05
5	64QAM	25	0	20.18	20.33	20.03



LTE Band 40, Block B						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	39200	/
Frequency (MHz)				/	2355	/
10	QPSK	1	0	/	22.75	/
10	QPSK	1	25	/	22.57	/
10	QPSK	1	49	/	22.37	/
10	QPSK	25	0	/	21.66	/
10	QPSK	25	12	/	21.55	/
10	QPSK	25	25	/	21.36	/
10	QPSK	50	0	/	21.26	/
10	16QAM	1	0	/	21.85	/
10	16QAM	1	25	/	21.65	/
10	16QAM	1	49	/	21.44	/
10	16QAM	25	0	/	20.85	/
10	16QAM	25	12	/	20.73	/
10	16QAM	25	25	/	20.59	/
10	16QAM	50	0	/	20.39	/
10	64QAM	1	0	/	20.72	/
10	64QAM	1	25	/	20.71	/
10	64QAM	1	49	/	20.69	/
10	64QAM	25	0	/	20.33	/
10	64QAM	25	12	/	20.33	/
10	64QAM	25	25	/	20.30	/
10	64QAM	50	0	/	20.26	/



LTE Band 40, Block B						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39175	39200	39225
Frequency (MHz)				2352.5	2355	2357.5
5	QPSK	1	0	22.67	22.72	22.67
5	QPSK	1	12	22.48	22.57	22.51
5	QPSK	1	24	22.37	22.36	22.35
5	QPSK	12	0	21.55	21.56	21.56
5	QPSK	12	7	21.39	21.37	21.39
5	QPSK	12	13	21.27	21.16	21.25
5	QPSK	25	0	21.16	21.01	21.13
5	16QAM	1	0	21.81	21.70	21.74
5	16QAM	1	12	21.70	21.59	21.60
5	16QAM	1	24	21.55	21.40	21.44
5	16QAM	12	0	21.02	20.87	20.82
5	16QAM	12	7	20.82	20.74	20.69
5	16QAM	12	13	20.65	20.52	20.53
5	16QAM	25	0	20.46	20.36	20.40
5	64QAM	1	0	20.83	20.70	20.80
5	64QAM	1	12	20.81	20.64	20.79
5	64QAM	1	24	20.77	20.58	20.72
5	64QAM	12	0	20.44	20.28	20.39
5	64QAM	12	7	20.41	20.28	20.32
5	64QAM	12	13	20.37	20.23	20.28
5	64QAM	25	0	20.30	20.18	20.24



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	23.71	23.72	23.66
20	QPSK	1	49	23.50	23.52	23.45
20	QPSK	1	99	23.34	23.40	23.30
20	QPSK	50	0	22.59	22.63	22.54
20	QPSK	50	24	22.46	22.45	22.36
20	QPSK	50	50	22.31	22.31	22.38
20	QPSK	100	0	22.32	22.42	22.37
20	16QAM	1	0	22.75	22.79	22.70
20	16QAM	1	49	22.55	22.62	22.50
20	16QAM	1	99	22.44	22.43	22.34
20	16QAM	50	0	21.88	21.91	21.74
20	16QAM	50	24	21.67	21.73	21.60
20	16QAM	50	50	21.53	21.59	21.49
20	16QAM	100	0	21.34	21.43	21.36
20	64QAM	1	0	21.78	21.85	21.71
20	64QAM	1	49	21.77	21.81	21.64
20	64QAM	1	99	21.76	21.77	21.58
20	64QAM	50	0	21.43	21.46	21.25
20	64QAM	50	24	21.37	21.42	21.22
20	64QAM	50	50	21.36	21.34	21.22
20	64QAM	100	0	21.35	21.33	21.20



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	23.65	23.66	23.60
15	QPSK	1	37	23.42	23.48	23.38
15	QPSK	1	74	23.25	23.34	23.25
15	QPSK	36	0	22.54	22.57	22.51
15	QPSK	36	20	22.38	22.42	22.28
15	QPSK	36	39	22.25	22.23	22.15
15	QPSK	75	0	22.06	22.07	22.02
15	16QAM	1	0	22.67	22.75	22.62
15	16QAM	1	37	22.51	22.56	22.46
15	16QAM	1	74	22.38	22.37	22.27
15	16QAM	36	0	21.84	21.88	21.66
15	16QAM	36	20	21.59	21.68	21.53
15	16QAM	36	39	21.44	21.56	21.41
15	16QAM	75	0	21.29	21.37	21.27
15	64QAM	1	0	21.70	21.79	21.63
15	64QAM	1	37	21.74	21.76	21.60
15	64QAM	1	74	21.69	21.72	21.51
15	64QAM	36	0	21.39	21.39	21.19
15	64QAM	36	20	21.29	21.38	21.14
15	64QAM	36	39	21.27	21.26	21.19
15	64QAM	75	0	21.31	21.24	21.15



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	23.48	23.61	23.57
10	QPSK	1	25	23.41	23.42	23.33
10	QPSK	1	49	23.23	23.33	23.17
10	QPSK	25	0	22.50	22.50	22.44
10	QPSK	25	12	22.32	22.38	22.25
10	QPSK	25	25	22.20	22.19	22.06
10	QPSK	50	0	22.00	22.00	22.03
10	16QAM	1	0	22.63	22.66	22.56
10	16QAM	1	25	22.41	22.45	22.37
10	16QAM	1	49	22.34	22.34	22.19
10	16QAM	25	0	21.80	21.81	21.61
10	16QAM	25	12	21.58	21.64	21.48
10	16QAM	25	25	21.43	21.47	21.37
10	16QAM	50	0	21.20	21.34	21.24
10	64QAM	1	0	21.63	21.69	21.63
10	64QAM	1	25	21.64	21.69	21.56
10	64QAM	1	49	21.61	21.64	21.48
10	64QAM	25	0	21.29	21.34	21.17
10	64QAM	25	12	21.24	21.28	21.12
10	64QAM	25	25	21.28	21.24	21.13
10	64QAM	50	0	21.25	21.22	21.08



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	23.59	23.62	23.59
5	QPSK	1	12	23.36	23.44	23.33
5	QPSK	1	24	23.23	23.28	23.18
5	QPSK	12	0	22.50	22.49	22.40
5	QPSK	12	7	22.35	22.39	22.23
5	QPSK	12	13	22.15	22.22	22.05
5	QPSK	25	0	22.06	22.09	22.08
5	16QAM	1	0	22.63	22.66	22.60
5	16QAM	1	12	22.42	22.48	22.33
5	16QAM	1	24	22.34	22.31	22.21
5	16QAM	12	0	21.77	21.80	21.61
5	16QAM	12	7	21.56	21.62	21.44
5	16QAM	12	13	21.46	21.44	21.33
5	16QAM	25	0	21.22	21.32	21.22
5	64QAM	1	0	21.65	21.69	21.59
5	64QAM	1	12	21.64	21.66	21.54
5	64QAM	1	24	21.64	21.60	21.46
5	64QAM	12	0	21.33	21.36	21.14
5	64QAM	12	7	21.26	21.33	21.12
5	64QAM	12	13	21.24	21.24	21.13
5	64QAM	25	0	21.23	21.21	21.10



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	23.61	23.63	23.55
3	QPSK	1	8	23.37	23.43	23.30
3	QPSK	1	14	23.27	23.31	23.19
3	QPSK	8	0	22.51	22.50	22.42
3	QPSK	8	4	22.33	22.37	22.26
3	QPSK	8	7	22.18	22.20	22.03
3	QPSK	15	0	22.00	22.05	22.03
3	16QAM	1	0	22.61	22.66	22.58
3	16QAM	1	8	22.45	22.47	22.34
3	16QAM	1	14	22.37	22.35	22.17
3	16QAM	8	0	21.80	21.81	21.57
3	16QAM	8	4	21.56	21.59	21.49
3	16QAM	8	7	21.45	21.43	21.33
3	16QAM	15	0	21.20	21.30	21.19
3	64QAM	1	0	21.63	21.73	21.64
3	64QAM	1	8	21.67	21.69	21.51
3	64QAM	1	14	21.62	21.62	21.48
3	64QAM	8	0	21.33	21.35	21.17
3	64QAM	8	4	21.26	21.30	21.11
3	64QAM	8	7	21.28	21.22	21.13
3	64QAM	15	0	21.26	21.19	21.09



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	23.60	23.59	23.54
1.4	QPSK	1	3	23.37	23.42	23.33
1.4	QPSK	1	5	23.25	23.28	23.20
1.4	QPSK	3	0	22.51	22.50	22.45
1.4	QPSK	3	1	22.35	22.39	22.21
1.4	QPSK	3	3	22.18	22.22	22.07
1.4	QPSK	6	0	21.98	22.00	21.94
1.4	16QAM	1	0	22.67	22.66	22.56
1.4	16QAM	1	3	22.44	22.48	22.35
1.4	16QAM	1	5	22.34	22.37	22.23
1.4	16QAM	3	0	21.79	21.84	21.60
1.4	16QAM	3	1	21.56	21.62	21.45
1.4	16QAM	3	3	21.47	21.44	21.35
1.4	16QAM	6	0	21.20	21.31	21.23
1.4	64QAM	1	0	21.65	21.72	21.64
1.4	64QAM	1	3	21.64	21.68	21.53
1.4	64QAM	1	5	21.60	21.65	21.47
1.4	64QAM	3	0	21.31	21.32	21.17
1.4	64QAM	3	1	21.25	21.30	21.12
1.4	64QAM	3	3	21.28	21.26	21.14
1.4	64QAM	6	0	21.25	21.24	21.06

**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	17.73	0.059	17.87	0.061	17.76	0.060
20	QPSK	1	49	17.63	0.058	17.72	0.059	17.61	0.058
20	QPSK	1	99	17.50	0.056	17.58	0.057	17.40	0.055
20	QPSK	50	0	16.67	0.046	16.75	0.047	16.69	0.047
20	QPSK	50	24	16.46	0.044	16.61	0.046	16.38	0.043
20	QPSK	50	50	16.16	0.041	16.47	0.044	16.09	0.041
20	QPSK	100	0	16.20	0.042	16.33	0.043	16.16	0.041
20	16QAM	1	0	16.70	0.047	16.92	0.049	16.80	0.048
20	16QAM	1	49	16.50	0.045	16.76	0.047	16.70	0.047
20	16QAM	1	99	16.40	0.044	16.58	0.045	16.70	0.047
20	16QAM	50	0	15.61	0.036	15.91	0.039	15.55	0.036
20	16QAM	50	24	15.35	0.034	15.63	0.037	15.40	0.035
20	16QAM	50	50	15.30	0.034	15.49	0.035	15.33	0.034
20	16QAM	100	0	15.40	0.035	15.21	0.033	15.37	0.034
20	64QAM	1	0	15.59	0.036	15.87	0.039	15.73	0.037
20	64QAM	1	49	15.46	0.035	15.73	0.037	15.63	0.037
20	64QAM	1	99	15.45	0.035	15.78	0.038	15.50	0.035
20	64QAM	50	0	15.21	0.033	15.40	0.035	15.21	0.033
20	64QAM	50	24	15.14	0.033	15.20	0.033	15.17	0.033
20	64QAM	50	50	15.13	0.033	15.15	0.033	15.10	0.032
20	64QAM	100	0	15.08	0.032	15.23	0.033	15.09	0.032



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	17.68	0.059	17.78	0.060	17.73	0.059
15	QPSK	1	37	17.55	0.057	17.64	0.058	17.55	0.057
15	QPSK	1	74	17.41	0.055	17.54	0.057	17.36	0.054
15	QPSK	36	0	16.59	0.046	16.69	0.047	16.58	0.045
15	QPSK	36	20	16.42	0.044	16.57	0.045	16.33	0.043
15	QPSK	36	39	16.13	0.041	16.39	0.044	16.05	0.040
15	QPSK	75	0	15.86	0.039	16.25	0.042	15.80	0.038
15	16QAM	1	0	16.62	0.046	16.87	0.049	16.76	0.047
15	16QAM	1	37	16.44	0.044	16.68	0.047	16.65	0.046
15	16QAM	1	74	16.34	0.043	16.52	0.045	16.67	0.046
15	16QAM	36	0	15.56	0.036	15.86	0.039	15.50	0.035
15	16QAM	36	20	15.27	0.034	15.56	0.036	15.36	0.034
15	16QAM	36	39	15.24	0.033	15.41	0.035	15.26	0.034
15	16QAM	75	0	15.37	0.034	15.17	0.033	15.32	0.034
15	64QAM	1	0	15.55	0.036	15.83	0.038	15.64	0.037
15	64QAM	1	37	15.40	0.035	15.70	0.037	15.57	0.036
15	64QAM	1	74	15.40	0.035	15.75	0.038	15.46	0.035
15	64QAM	36	0	15.15	0.033	15.36	0.034	15.16	0.033
15	64QAM	36	20	15.05	0.032	15.15	0.033	15.12	0.033
15	64QAM	36	39	15.06	0.032	15.08	0.032	15.02	0.032
15	64QAM	75	0	15.02	0.032	15.15	0.033	15.00	0.032



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	17.63	0.058	17.82	0.061	17.69	0.059
10	QPSK	1	25	17.58	0.057	17.66	0.058	17.54	0.057
10	QPSK	1	49	17.45	0.056	17.48	0.056	17.30	0.054
10	QPSK	25	0	16.56	0.045	16.68	0.047	16.59	0.046
10	QPSK	25	12	16.40	0.044	16.52	0.045	16.30	0.043
10	QPSK	25	25	16.07	0.040	16.40	0.044	16.03	0.040
10	QPSK	50	0	15.81	0.038	16.26	0.042	15.77	0.038
10	16QAM	1	0	16.65	0.046	16.82	0.048	16.74	0.047
10	16QAM	1	25	16.43	0.044	16.65	0.046	16.64	0.046
10	16QAM	1	49	16.34	0.043	16.48	0.044	16.61	0.046
10	16QAM	25	0	15.52	0.036	15.82	0.038	15.50	0.035
10	16QAM	25	12	15.29	0.034	15.58	0.036	15.33	0.034
10	16QAM	25	25	15.25	0.033	15.40	0.035	15.24	0.033
10	16QAM	50	0	15.29	0.034	15.15	0.033	15.31	0.034
10	64QAM	1	0	15.51	0.036	15.77	0.038	15.68	0.037
10	64QAM	1	25	15.39	0.035	15.67	0.037	15.57	0.036
10	64QAM	1	49	15.36	0.034	15.70	0.037	15.42	0.035
10	64QAM	25	0	15.10	0.032	15.31	0.034	15.11	0.032
10	64QAM	25	12	15.04	0.032	15.05	0.032	15.11	0.032
10	64QAM	25	25	15.03	0.032	15.06	0.032	15.03	0.032
10	64QAM	50	0	14.98	0.031	15.12	0.033	14.99	0.032



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	17.67	0.058	17.80	0.060	17.65	0.058
5	QPSK	1	12	17.52	0.056	17.66	0.058	17.56	0.057
5	QPSK	1	24	17.40	0.055	17.50	0.056	17.32	0.054
5	QPSK	12	0	16.59	0.046	16.65	0.046	16.60	0.046
5	QPSK	12	7	16.36	0.043	16.53	0.045	16.31	0.043
5	QPSK	12	13	16.10	0.041	16.38	0.043	16.04	0.040
5	QPSK	25	0	15.82	0.038	16.25	0.042	15.80	0.038
5	16QAM	1	0	16.61	0.046	16.86	0.049	16.73	0.047
5	16QAM	1	12	16.40	0.044	16.70	0.047	16.64	0.046
5	16QAM	1	24	16.34	0.043	16.49	0.045	16.60	0.046
5	16QAM	12	0	15.55	0.036	15.82	0.038	15.45	0.035
5	16QAM	12	7	15.27	0.034	15.57	0.036	15.34	0.034
5	16QAM	12	13	15.24	0.033	15.41	0.035	15.23	0.033
5	16QAM	25	0	15.34	0.034	15.13	0.033	15.31	0.034
5	64QAM	1	0	15.48	0.035	15.77	0.038	15.67	0.037
5	64QAM	1	12	15.41	0.035	15.66	0.037	15.53	0.036
5	64QAM	1	24	15.37	0.034	15.69	0.037	15.40	0.035
5	64QAM	12	0	15.15	0.033	15.28	0.034	15.14	0.033
5	64QAM	12	7	15.06	0.032	15.07	0.032	15.10	0.032
5	64QAM	12	13	15.06	0.032	15.05	0.032	15.01	0.032
5	64QAM	25	0	14.98	0.031	15.11	0.032	15.02	0.032



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	17.67	0.058	17.78	0.060	17.72	0.059
3	QPSK	1	8	17.55	0.057	17.65	0.058	17.53	0.057
3	QPSK	1	14	17.43	0.055	17.53	0.057	17.31	0.054
3	QPSK	8	0	16.61	0.046	16.70	0.047	16.63	0.046
3	QPSK	8	4	16.42	0.044	16.53	0.045	16.32	0.043
3	QPSK	8	7	16.10	0.041	16.43	0.044	16.04	0.040
3	QPSK	15	0	15.82	0.038	16.28	0.042	15.82	0.038
3	16QAM	1	0	16.63	0.046	16.87	0.049	16.75	0.047
3	16QAM	1	8	16.42	0.044	16.68	0.047	16.66	0.046
3	16QAM	1	14	16.31	0.043	16.53	0.045	16.64	0.046
3	16QAM	8	0	15.52	0.036	15.87	0.039	15.50	0.035
3	16QAM	8	4	15.32	0.034	15.57	0.036	15.32	0.034
3	16QAM	8	7	15.24	0.033	15.41	0.035	15.24	0.033
3	16QAM	15	0	15.34	0.034	15.13	0.033	15.33	0.034
3	64QAM	1	0	15.53	0.036	15.80	0.038	15.65	0.037
3	64QAM	1	8	15.41	0.035	15.66	0.037	15.55	0.036
3	64QAM	1	14	15.39	0.035	15.75	0.038	15.47	0.035
3	64QAM	8	0	15.13	0.033	15.28	0.034	15.13	0.033
3	64QAM	8	4	15.08	0.032	15.07	0.032	15.08	0.032
3	64QAM	8	7	15.09	0.032	15.05	0.032	15.05	0.032
3	64QAM	15	0	15.00	0.032	15.13	0.033	15.02	0.032



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	17.66	0.058	17.77	0.060	17.67	0.058
1.4	QPSK	1	3	17.56	0.057	17.65	0.058	17.54	0.057
1.4	QPSK	1	5	17.43	0.055	17.48	0.056	17.34	0.054
1.4	QPSK	3	0	16.58	0.045	16.67	0.046	16.59	0.046
1.4	QPSK	3	1	16.36	0.043	16.53	0.045	16.31	0.043
1.4	QPSK	3	3	16.06	0.040	16.40	0.044	16.00	0.040
1.4	QPSK	6	0	15.83	0.038	16.22	0.042	15.78	0.038
1.4	16QAM	1	0	16.63	0.046	16.86	0.049	16.74	0.047
1.4	16QAM	1	3	16.42	0.044	16.70	0.047	16.62	0.046
1.4	16QAM	1	5	16.35	0.043	16.48	0.044	16.62	0.046
1.4	16QAM	3	0	15.55	0.036	15.85	0.038	15.46	0.035
1.4	16QAM	3	1	15.25	0.033	15.55	0.036	15.33	0.034
1.4	16QAM	3	3	15.22	0.033	15.38	0.035	15.23	0.033
1.4	16QAM	6	0	15.35	0.034	15.15	0.033	15.29	0.034
1.4	64QAM	1	0	15.54	0.036	15.77	0.038	15.68	0.037
1.4	64QAM	1	3	15.38	0.035	15.64	0.037	15.57	0.036
1.4	64QAM	1	5	15.37	0.034	15.68	0.037	15.45	0.035
1.4	64QAM	3	0	15.15	0.033	15.23	0.033	15.12	0.033
1.4	64QAM	3	1	15.03	0.032	15.06	0.032	15.07	0.032
1.4	64QAM	3	3	15.08	0.032	15.07	0.032	15.01	0.032
1.4	64QAM	6	0	14.99	0.032	15.10	0.032	15.02	0.032



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	17.18	0.052	17.28	0.053	17.26	0.053
20	QPSK	1	49	17.02	0.050	17.12	0.052	17.12	0.052
20	QPSK	1	99	16.83	0.048	16.96	0.050	16.98	0.050
20	QPSK	50	0	16.07	0.040	16.25	0.042	16.21	0.042
20	QPSK	50	24	15.85	0.038	16.15	0.041	16.05	0.040
20	QPSK	50	50	15.73	0.037	16.00	0.040	15.87	0.039
20	QPSK	100	0	15.72	0.037	15.88	0.039	15.76	0.038
20	16QAM	1	0	16.26	0.042	16.42	0.044	16.30	0.043
20	16QAM	1	49	16.15	0.041	16.21	0.042	16.17	0.041
20	16QAM	1	99	16.04	0.040	16.01	0.040	15.99	0.040
20	16QAM	50	0	15.51	0.036	15.44	0.035	15.41	0.035
20	16QAM	50	24	15.37	0.034	15.22	0.033	15.29	0.034
20	16QAM	50	50	15.16	0.033	15.03	0.032	15.08	0.032
20	16QAM	100	0	14.96	0.031	14.86	0.031	14.91	0.031
20	64QAM	1	0	15.40	0.035	15.27	0.034	15.31	0.034
20	64QAM	1	49	15.32	0.034	15.19	0.033	15.26	0.034
20	64QAM	1	99	15.26	0.034	15.15	0.033	15.21	0.033
20	64QAM	50	0	14.94	0.031	14.78	0.030	14.87	0.031
20	64QAM	50	24	14.88	0.031	14.76	0.030	14.80	0.030
20	64QAM	50	50	14.86	0.031	14.72	0.030	14.79	0.030
20	64QAM	100	0	14.80	0.030	14.71	0.030	14.76	0.030



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	17.15	0.052	17.22	0.053	17.21	0.053
15	QPSK	1	37	16.96	0.050	17.09	0.051	17.08	0.051
15	QPSK	1	74	16.78	0.048	16.92	0.049	16.92	0.049
15	QPSK	36	0	15.99	0.040	16.20	0.042	16.13	0.041
15	QPSK	36	20	15.77	0.038	16.08	0.041	15.97	0.040
15	QPSK	36	39	15.69	0.037	15.94	0.039	15.82	0.038
15	QPSK	75	0	15.59	0.036	15.74	0.037	15.62	0.036
15	16QAM	1	0	16.20	0.042	16.38	0.043	16.24	0.042
15	16QAM	1	37	16.06	0.040	16.16	0.041	16.09	0.041
15	16QAM	1	74	16.00	0.040	15.93	0.039	15.91	0.039
15	16QAM	36	0	15.42	0.035	15.37	0.034	15.38	0.035
15	16QAM	36	20	15.30	0.034	15.13	0.033	15.25	0.033
15	16QAM	36	39	15.08	0.032	14.95	0.031	15.05	0.032
15	16QAM	75	0	14.88	0.031	14.78	0.030	14.86	0.031
15	64QAM	1	0	15.34	0.034	15.20	0.033	15.27	0.034
15	64QAM	1	37	15.29	0.034	15.16	0.033	15.22	0.033
15	64QAM	1	74	15.22	0.033	15.09	0.032	15.16	0.033
15	64QAM	36	0	14.85	0.031	14.72	0.030	14.80	0.030
15	64QAM	36	20	14.79	0.030	14.73	0.030	14.72	0.030
15	64QAM	36	39	14.82	0.030	14.65	0.029	14.73	0.030
15	64QAM	75	0	14.72	0.030	14.67	0.029	14.69	0.029



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	17.03	0.050	17.13	0.052	17.18	0.052
10	QPSK	1	25	16.87	0.049	17.01	0.050	16.98	0.050
10	QPSK	1	49	16.76	0.047	16.85	0.048	16.81	0.048
10	QPSK	25	0	15.99	0.040	16.13	0.041	16.04	0.040
10	QPSK	25	12	15.71	0.037	16.03	0.040	15.91	0.039
10	QPSK	25	25	15.63	0.037	15.85	0.038	15.73	0.037
10	QPSK	50	0	15.46	0.035	15.66	0.037	15.56	0.036
10	16QAM	1	0	16.18	0.041	16.32	0.043	16.18	0.041
10	16QAM	1	25	16.03	0.040	16.12	0.041	16.07	0.040
10	16QAM	1	49	15.92	0.039	15.87	0.039	15.84	0.038
10	16QAM	25	0	15.37	0.034	15.32	0.034	15.28	0.034
10	16QAM	25	12	15.23	0.033	15.10	0.032	15.18	0.033
10	16QAM	25	25	15.03	0.032	14.88	0.031	14.96	0.031
10	16QAM	50	0	14.84	0.030	14.75	0.030	14.82	0.030
10	64QAM	1	0	15.27	0.034	15.18	0.033	15.18	0.033
10	64QAM	1	25	15.25	0.033	15.11	0.032	15.14	0.033
10	64QAM	1	49	15.18	0.033	15.02	0.032	15.13	0.033
10	64QAM	25	0	14.85	0.031	14.65	0.029	14.71	0.030
10	64QAM	25	12	14.75	0.030	14.65	0.029	14.70	0.030
10	64QAM	25	25	14.75	0.030	14.65	0.029	14.67	0.029
10	64QAM	50	0	14.69	0.029	14.61	0.029	14.68	0.029



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	17.06	0.051	17.16	0.052	17.16	0.052
5	QPSK	1	12	16.88	0.049	17.03	0.050	17.01	0.050
5	QPSK	1	24	16.76	0.047	16.86	0.049	16.82	0.048
5	QPSK	12	0	15.93	0.039	16.10	0.041	16.07	0.040
5	QPSK	12	7	15.69	0.037	16.04	0.040	15.88	0.039
5	QPSK	12	13	15.61	0.036	15.84	0.038	15.71	0.037
5	QPSK	25	0	15.48	0.035	15.64	0.037	15.55	0.036
5	16QAM	1	0	16.18	0.041	16.28	0.042	16.18	0.041
5	16QAM	1	12	16.03	0.040	16.08	0.041	16.03	0.040
5	16QAM	1	24	15.91	0.039	15.89	0.039	15.88	0.039
5	16QAM	12	0	15.40	0.035	15.31	0.034	15.29	0.034
5	16QAM	12	7	15.22	0.033	15.14	0.033	15.17	0.033
5	16QAM	12	13	15.03	0.032	14.88	0.031	14.96	0.031
5	16QAM	25	0	14.89	0.031	14.72	0.030	14.83	0.030
5	64QAM	1	0	15.28	0.034	15.15	0.033	15.19	0.033
5	64QAM	1	12	15.23	0.033	15.09	0.032	15.11	0.032
5	64QAM	1	24	15.12	0.033	15.06	0.032	15.12	0.033
5	64QAM	12	0	14.81	0.030	14.65	0.029	14.73	0.030
5	64QAM	12	7	14.73	0.030	14.66	0.029	14.71	0.030
5	64QAM	12	13	14.74	0.030	14.65	0.029	14.66	0.029
5	64QAM	25	0	14.71	0.030	14.57	0.029	14.66	0.029



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	17.02	0.050	17.14	0.052	17.18	0.052
3	QPSK	1	8	16.88	0.049	17.06	0.051	17.01	0.050
3	QPSK	1	14	16.71	0.047	16.86	0.049	16.83	0.048
3	QPSK	8	0	15.95	0.039	16.11	0.041	16.08	0.041
3	QPSK	8	4	15.72	0.037	16.05	0.040	15.88	0.039
3	QPSK	8	7	15.65	0.037	15.89	0.039	15.74	0.037
3	QPSK	15	0	15.50	0.035	15.68	0.037	15.59	0.036
3	16QAM	1	0	16.18	0.041	16.30	0.043	16.19	0.042
3	16QAM	1	8	16.04	0.040	16.10	0.041	16.07	0.040
3	16QAM	1	14	15.96	0.039	15.84	0.038	15.86	0.039
3	16QAM	8	0	15.38	0.035	15.29	0.034	15.28	0.034
3	16QAM	8	4	15.22	0.033	15.12	0.033	15.21	0.033
3	16QAM	8	7	15.03	0.032	14.89	0.031	14.93	0.031
3	16QAM	15	0	14.87	0.031	14.74	0.030	14.78	0.030
3	64QAM	1	0	15.28	0.034	15.17	0.033	15.19	0.033
3	64QAM	1	8	15.22	0.033	15.09	0.032	15.14	0.033
3	64QAM	1	14	15.18	0.033	15.00	0.032	15.13	0.033
3	64QAM	8	0	14.83	0.030	14.66	0.029	14.73	0.030
3	64QAM	8	4	14.75	0.030	14.64	0.029	14.70	0.030
3	64QAM	8	7	14.70	0.030	14.61	0.029	14.71	0.030
3	64QAM	15	0	14.70	0.030	14.59	0.029	14.68	0.029



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	17.03	0.050	17.16	0.052	17.19	0.052
1.4	QPSK	1	3	16.90	0.049	17.06	0.051	16.97	0.050
1.4	QPSK	1	5	16.74	0.047	16.87	0.049	16.84	0.048
1.4	QPSK	3	0	15.97	0.040	16.11	0.041	16.06	0.040
1.4	QPSK	3	1	15.74	0.037	16.04	0.040	15.92	0.039
1.4	QPSK	3	3	15.61	0.036	15.83	0.038	15.73	0.037
1.4	QPSK	6	0	15.47	0.035	15.68	0.037	15.55	0.036
1.4	16QAM	1	0	16.13	0.041	16.31	0.043	16.23	0.042
1.4	16QAM	1	3	15.98	0.040	16.12	0.041	16.07	0.040
1.4	16QAM	1	5	15.95	0.039	15.90	0.039	15.87	0.039
1.4	16QAM	3	0	15.40	0.035	15.31	0.034	15.27	0.034
1.4	16QAM	3	1	15.19	0.033	15.11	0.032	15.19	0.033
1.4	16QAM	3	3	15.04	0.032	14.89	0.031	14.94	0.031
1.4	16QAM	6	0	14.85	0.031	14.72	0.030	14.81	0.030
1.4	64QAM	1	0	15.25	0.033	15.15	0.033	15.21	0.033
1.4	64QAM	1	3	15.25	0.033	15.10	0.032	15.15	0.033
1.4	64QAM	1	5	15.13	0.033	15.03	0.032	15.09	0.032
1.4	64QAM	3	0	14.82	0.030	14.66	0.029	14.71	0.030
1.4	64QAM	3	1	14.76	0.030	14.67	0.029	14.70	0.030
1.4	64QAM	3	3	14.75	0.030	14.64	0.029	14.70	0.030
1.4	64QAM	6	0	14.68	0.029	14.56	0.029	14.66	0.029



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	14.15	0.026	14.19	0.026	14.18	0.026
10	QPSK	1	25	14.03	0.025	14.05	0.025	13.98	0.025
10	QPSK	1	49	13.89	0.024	13.95	0.025	13.82	0.024
10	QPSK	25	0	13.13	0.021	13.19	0.021	13.08	0.020
10	QPSK	25	12	12.99	0.020	13.00	0.020	12.87	0.019
10	QPSK	25	25	12.82	0.019	12.86	0.019	12.73	0.019
10	QPSK	50	0	12.72	0.019	12.73	0.019	12.64	0.018
10	16QAM	1	0	13.32	0.021	13.43	0.022	13.22	0.021
10	16QAM	1	25	13.13	0.021	13.23	0.021	13.05	0.020
10	16QAM	1	49	12.92	0.020	13.05	0.020	12.94	0.020
10	16QAM	25	0	12.34	0.017	12.55	0.018	12.42	0.017
10	16QAM	25	12	12.20	0.017	12.34	0.017	12.20	0.017
10	16QAM	25	25	12.03	0.016	12.15	0.016	12.04	0.016
10	16QAM	50	0	11.87	0.015	11.98	0.016	11.92	0.016
10	64QAM	1	0	12.26	0.017	12.38	0.017	12.33	0.017
10	64QAM	1	25	12.24	0.017	12.31	0.017	12.27	0.017
10	64QAM	1	49	12.17	0.016	12.29	0.017	12.21	0.017
10	64QAM	25	0	11.87	0.015	11.93	0.016	11.90	0.015
10	64QAM	25	12	11.82	0.015	11.87	0.015	11.89	0.015
10	64QAM	25	25	11.75	0.015	11.85	0.015	11.88	0.015
10	64QAM	50	0	11.72	0.015	11.78	0.015	11.85	0.015



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	14.13	0.026	14.13	0.026	14.15	0.026
5	QPSK	1	12	13.91	0.025	13.97	0.025	13.96	0.025
5	QPSK	1	24	13.76	0.024	13.81	0.024	13.78	0.024
5	QPSK	12	0	12.94	0.020	13.06	0.020	13.00	0.020
5	QPSK	12	7	12.75	0.019	12.86	0.019	12.88	0.019
5	QPSK	12	13	12.61	0.018	12.79	0.019	12.77	0.019
5	QPSK	25	0	12.52	0.018	12.56	0.018	12.58	0.018
5	16QAM	1	0	13.13	0.021	13.19	0.021	13.13	0.021
5	16QAM	1	12	12.96	0.020	13.07	0.020	13.03	0.020
5	16QAM	1	24	12.85	0.019	12.91	0.020	12.88	0.019
5	16QAM	12	0	12.27	0.017	12.37	0.017	12.35	0.017
5	16QAM	12	7	12.21	0.017	12.26	0.017	12.17	0.016
5	16QAM	12	13	12.06	0.016	12.08	0.016	11.97	0.016
5	16QAM	25	0	11.82	0.015	11.99	0.016	11.72	0.015
5	64QAM	1	0	12.26	0.017	12.44	0.018	12.12	0.016
5	64QAM	1	12	12.17	0.016	12.35	0.017	11.99	0.016
5	64QAM	1	24	12.14	0.016	12.30	0.017	12.03	0.016
5	64QAM	12	0	11.84	0.015	12.03	0.016	11.68	0.015
5	64QAM	12	7	11.81	0.015	12.01	0.016	11.65	0.015
5	64QAM	12	13	11.78	0.015	11.98	0.016	11.62	0.015
5	64QAM	25	0	11.73	0.015	11.96	0.016	11.55	0.014



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	14.07	0.026	14.09	0.026	14.08	0.026
3	QPSK	1	8	13.87	0.024	13.93	0.025	13.98	0.025
3	QPSK	1	14	13.67	0.023	13.74	0.024	13.69	0.023
3	QPSK	8	0	12.92	0.020	13.02	0.020	12.96	0.020
3	QPSK	8	4	12.69	0.019	12.82	0.019	12.79	0.019
3	QPSK	8	7	12.52	0.018	12.70	0.019	12.68	0.019
3	QPSK	15	0	12.41	0.017	12.56	0.018	12.46	0.018
3	16QAM	1	0	13.07	0.020	13.15	0.021	13.07	0.020
3	16QAM	1	8	12.89	0.019	13.01	0.020	12.98	0.020
3	16QAM	1	14	12.79	0.019	12.84	0.019	12.86	0.019
3	16QAM	8	0	12.23	0.017	12.33	0.017	12.27	0.017
3	16QAM	8	4	12.10	0.016	12.16	0.016	12.08	0.016
3	16QAM	8	7	12.00	0.016	12.03	0.016	11.90	0.015
3	16QAM	15	0	11.78	0.015	11.88	0.015	11.68	0.015
3	64QAM	1	0	12.24	0.017	12.32	0.017	12.07	0.016
3	64QAM	1	8	12.09	0.016	12.33	0.017	11.96	0.016
3	64QAM	1	14	12.11	0.016	12.29	0.017	11.95	0.016
3	64QAM	8	0	11.77	0.015	11.93	0.016	11.64	0.015
3	64QAM	8	4	11.75	0.015	11.90	0.015	11.61	0.014
3	64QAM	8	7	11.72	0.015	11.92	0.016	11.55	0.014
3	64QAM	15	0	11.73	0.015	11.85	0.015	11.55	0.014



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	14.04	0.025	14.12	0.026	14.11	0.026
1.4	QPSK	1	3	13.85	0.024	13.92	0.025	13.96	0.025
1.4	QPSK	1	5	13.70	0.023	13.77	0.024	13.68	0.023
1.4	QPSK	3	0	12.88	0.019	12.99	0.020	12.99	0.020
1.4	QPSK	3	1	12.67	0.018	12.87	0.019	12.81	0.019
1.4	QPSK	3	3	12.52	0.018	12.74	0.019	12.66	0.018
1.4	QPSK	6	0	12.40	0.017	12.57	0.018	12.45	0.018
1.4	16QAM	1	0	13.10	0.020	13.14	0.021	13.07	0.020
1.4	16QAM	1	3	12.92	0.020	13.06	0.020	12.96	0.020
1.4	16QAM	1	5	12.78	0.019	12.84	0.019	12.82	0.019
1.4	16QAM	3	0	12.23	0.017	12.35	0.017	12.25	0.017
1.4	16QAM	3	1	12.13	0.016	12.18	0.017	12.09	0.016
1.4	16QAM	3	3	11.98	0.016	12.06	0.016	11.89	0.015
1.4	16QAM	6	0	11.75	0.015	11.89	0.015	11.63	0.015
1.4	64QAM	1	0	12.20	0.017	12.33	0.017	12.04	0.016
1.4	64QAM	1	3	12.11	0.016	12.31	0.017	12.00	0.016
1.4	64QAM	1	5	12.09	0.016	12.30	0.017	11.93	0.016
1.4	64QAM	3	0	11.75	0.015	11.95	0.016	11.61	0.014
1.4	64QAM	3	1	11.75	0.015	11.91	0.016	11.60	0.014
1.4	64QAM	3	3	11.76	0.015	11.91	0.016	11.57	0.014
1.4	64QAM	6	0	11.72	0.015	11.89	0.015	11.50	0.014



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	12.78	0.019	12.89	0.019	12.84	0.019
20	QPSK	1	49	12.73	0.019	12.70	0.019	12.78	0.019
20	QPSK	1	99	12.68	0.019	12.53	0.018	12.65	0.018
20	QPSK	50	0	11.92	0.016	11.95	0.016	11.89	0.015
20	QPSK	50	24	11.83	0.015	11.86	0.015	11.87	0.015
20	QPSK	50	50	11.81	0.015	11.71	0.015	11.67	0.015
20	QPSK	100	0	11.63	0.015	11.64	0.015	11.52	0.014
20	16QAM	1	0	12.22	0.017	12.10	0.016	12.22	0.017
20	16QAM	1	49	12.00	0.016	11.98	0.016	12.04	0.016
20	16QAM	1	99	11.81	0.015	11.86	0.015	11.85	0.015
20	16QAM	50	0	11.54	0.014	11.61	0.014	11.64	0.015
20	16QAM	50	24	11.63	0.015	11.76	0.015	11.82	0.015
20	16QAM	50	50	11.50	0.014	11.62	0.015	11.68	0.015
20	16QAM	100	0	11.35	0.014	11.49	0.014	11.48	0.014
20	64QAM	1	0	11.72	0.015	11.85	0.015	11.93	0.016
20	64QAM	1	49	11.68	0.015	11.84	0.015	11.86	0.015
20	64QAM	1	99	11.62	0.015	11.83	0.015	11.83	0.015
20	64QAM	50	0	11.42	0.014	11.45	0.014	11.51	0.014
20	64QAM	50	24	11.47	0.014	11.38	0.014	11.43	0.014
20	64QAM	50	50	11.40	0.014	11.32	0.014	11.39	0.014
20	64QAM	100	0	11.43	0.014	11.26	0.013	11.36	0.014



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	12.68	0.019	12.82	0.019	12.80	0.019
15	QPSK	1	37	12.75	0.019	12.64	0.018	12.72	0.019
15	QPSK	1	74	12.59	0.018	12.44	0.018	12.62	0.018
15	QPSK	36	0	12.06	0.016	11.92	0.016	11.99	0.016
15	QPSK	36	20	11.87	0.015	11.79	0.015	11.79	0.015
15	QPSK	36	39	11.74	0.015	11.60	0.014	11.61	0.014
15	QPSK	75	0	11.57	0.014	11.38	0.014	11.44	0.014
15	16QAM	1	0	12.14	0.016	12.04	0.016	12.15	0.016
15	16QAM	1	37	11.93	0.016	11.93	0.016	11.97	0.016
15	16QAM	1	74	11.74	0.015	11.82	0.015	11.80	0.015
15	16QAM	36	0	11.46	0.014	11.53	0.014	11.58	0.014
15	16QAM	36	20	11.54	0.014	11.70	0.015	11.75	0.015
15	16QAM	36	39	11.42	0.014	11.55	0.014	11.62	0.015
15	16QAM	75	0	11.28	0.013	11.40	0.014	11.39	0.014
15	64QAM	1	0	11.68	0.015	11.78	0.015	11.85	0.015
15	64QAM	1	37	11.64	0.015	11.79	0.015	11.80	0.015
15	64QAM	1	74	11.54	0.014	11.80	0.015	11.80	0.015
15	64QAM	36	0	11.37	0.014	11.38	0.014	11.44	0.014
15	64QAM	36	20	11.44	0.014	11.34	0.014	11.36	0.014
15	64QAM	36	39	11.35	0.014	11.28	0.013	11.36	0.014
15	64QAM	75	0	11.34	0.014	11.19	0.013	11.28	0.013



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	12.62	0.018	12.79	0.019	12.75	0.019
10	QPSK	1	25	12.69	0.019	12.56	0.018	12.65	0.018
10	QPSK	1	49	12.51	0.018	12.38	0.017	12.59	0.018
10	QPSK	25	0	12.03	0.016	11.87	0.015	11.92	0.016
10	QPSK	25	12	11.80	0.015	11.74	0.015	11.72	0.015
10	QPSK	25	25	11.66	0.015	11.54	0.014	11.54	0.014
10	QPSK	50	0	11.48	0.014	11.35	0.014	11.40	0.014
10	16QAM	1	0	12.07	0.016	11.96	0.016	12.10	0.016
10	16QAM	1	25	11.85	0.015	11.87	0.015	11.92	0.016
10	16QAM	1	49	11.67	0.015	11.76	0.015	11.77	0.015
10	16QAM	25	0	11.38	0.014	11.49	0.014	11.54	0.014
10	16QAM	25	12	11.46	0.014	11.66	0.015	11.68	0.015
10	16QAM	25	25	11.35	0.014	11.50	0.014	11.54	0.014
10	16QAM	50	0	11.21	0.013	11.31	0.014	11.32	0.014
10	64QAM	1	0	11.61	0.014	11.70	0.015	11.79	0.015
10	64QAM	1	25	11.57	0.014	11.76	0.015	11.73	0.015
10	64QAM	1	49	11.46	0.014	11.74	0.015	11.76	0.015
10	64QAM	25	0	11.28	0.013	11.34	0.014	11.37	0.014
10	64QAM	25	12	11.39	0.014	11.29	0.013	11.29	0.013
10	64QAM	25	25	11.29	0.013	11.23	0.013	11.30	0.013
10	64QAM	50	0	11.27	0.013	11.11	0.013	11.20	0.013



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	12.61	0.018	12.78	0.019	12.74	0.019
5	QPSK	1	12	12.66	0.018	12.61	0.018	12.65	0.018
5	QPSK	1	24	12.55	0.018	12.38	0.017	12.54	0.018
5	QPSK	12	0	11.99	0.016	11.89	0.015	11.95	0.016
5	QPSK	12	7	11.79	0.015	11.70	0.015	11.72	0.015
5	QPSK	12	13	11.67	0.015	11.52	0.014	11.52	0.014
5	QPSK	25	0	11.52	0.014	11.34	0.014	11.36	0.014
5	16QAM	1	0	12.07	0.016	11.96	0.016	12.11	0.016
5	16QAM	1	12	11.88	0.015	11.85	0.015	11.93	0.016
5	16QAM	1	24	11.68	0.015	11.77	0.015	11.73	0.015
5	16QAM	12	0	11.42	0.014	11.48	0.014	11.54	0.014
5	16QAM	12	7	11.45	0.014	11.62	0.015	11.68	0.015
5	16QAM	12	13	11.36	0.014	11.50	0.014	11.56	0.014
5	16QAM	25	0	11.20	0.013	11.33	0.014	11.34	0.014
5	64QAM	1	0	11.61	0.014	11.72	0.015	11.78	0.015
5	64QAM	1	12	11.60	0.014	11.72	0.015	11.76	0.015
5	64QAM	1	24	11.48	0.014	11.74	0.015	11.72	0.015
5	64QAM	12	0	11.29	0.013	11.30	0.013	11.39	0.014
5	64QAM	12	7	11.41	0.014	11.29	0.013	11.28	0.013
5	64QAM	12	13	11.30	0.013	11.21	0.013	11.28	0.013
5	64QAM	25	0	11.31	0.014	11.13	0.013	11.25	0.013



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	14.52	0.028	14.56	0.029	14.50	0.028
10	QPSK	1	25	14.38	0.027	14.36	0.027	14.34	0.027
10	QPSK	1	49	14.16	0.026	14.18	0.026	14.16	0.026
10	QPSK	25	0	13.35	0.022	13.48	0.022	13.45	0.022
10	QPSK	25	12	13.32	0.021	13.34	0.022	13.25	0.021
10	QPSK	25	25	13.24	0.021	13.17	0.021	13.16	0.021
10	QPSK	50	0	13.18	0.021	13.20	0.021	13.15	0.021
10	16QAM	1	0	13.58	0.023	13.58	0.023	13.53	0.023
10	16QAM	1	25	13.47	0.022	13.39	0.022	13.33	0.022
10	16QAM	1	49	13.26	0.021	13.29	0.021	13.22	0.021
10	16QAM	25	0	12.73	0.019	12.68	0.019	12.65	0.018
10	16QAM	25	12	12.54	0.018	12.47	0.018	12.49	0.018
10	16QAM	25	25	12.42	0.017	12.28	0.017	12.28	0.017
10	16QAM	50	0	12.28	0.017	12.10	0.016	12.14	0.016
10	64QAM	1	0	12.14	0.016	11.95	0.016	12.03	0.016
10	64QAM	1	25	12.12	0.016	11.91	0.016	11.96	0.016
10	64QAM	1	49	12.09	0.016	11.91	0.016	11.91	0.016
10	64QAM	25	0	11.74	0.015	11.60	0.014	11.54	0.014
10	64QAM	25	12	11.73	0.015	11.58	0.014	11.48	0.014
10	64QAM	25	25	11.68	0.015	11.53	0.014	11.44	0.014
10	64QAM	50	0	11.62	0.015	11.53	0.014	11.40	0.014



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	14.48	0.028	14.50	0.028	14.46	0.028
5	QPSK	1	12	14.34	0.027	14.32	0.027	14.28	0.027
5	QPSK	1	24	14.09	0.026	14.09	0.026	14.11	0.026
5	QPSK	12	0	13.29	0.021	13.39	0.022	13.40	0.022
5	QPSK	12	7	13.16	0.021	13.27	0.021	13.20	0.021
5	QPSK	12	13	13.14	0.021	13.19	0.021	13.22	0.021
5	QPSK	25	0	13.15	0.021	13.13	0.021	13.11	0.020
5	16QAM	1	0	13.54	0.023	13.52	0.022	13.45	0.022
5	16QAM	1	12	13.42	0.022	13.31	0.021	13.24	0.021
5	16QAM	1	24	13.17	0.021	13.20	0.021	13.17	0.021
5	16QAM	12	0	12.67	0.018	12.64	0.018	12.60	0.018
5	16QAM	12	7	12.48	0.018	12.41	0.017	12.44	0.018
5	16QAM	12	13	12.38	0.017	12.25	0.017	12.19	0.017
5	16QAM	25	0	12.24	0.017	12.05	0.016	12.08	0.016
5	64QAM	1	0	12.06	0.016	11.90	0.015	11.97	0.016
5	64QAM	1	12	12.07	0.016	11.86	0.015	11.88	0.015
5	64QAM	1	24	12.06	0.016	11.87	0.015	11.86	0.015
5	64QAM	12	0	11.70	0.015	11.51	0.014	11.46	0.014
5	64QAM	12	7	11.64	0.015	11.55	0.014	11.43	0.014
5	64QAM	12	13	11.64	0.015	11.48	0.014	11.38	0.014
5	64QAM	25	0	11.57	0.014	11.45	0.014	11.32	0.014



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	14.38	0.027	14.44	0.028	14.35	0.027
3	QPSK	1	8	14.29	0.027	14.26	0.027	14.23	0.026
3	QPSK	1	14	14.04	0.025	14.06	0.025	14.00	0.025
3	QPSK	8	0	13.23	0.021	13.29	0.021	13.32	0.021
3	QPSK	8	4	13.10	0.020	13.19	0.021	13.15	0.021
3	QPSK	8	7	13.12	0.021	13.13	0.021	13.24	0.021
3	QPSK	15	0	13.07	0.020	13.16	0.021	13.09	0.020
3	16QAM	1	0	13.44	0.022	13.46	0.022	13.37	0.022
3	16QAM	1	8	13.35	0.022	13.26	0.021	13.23	0.021
3	16QAM	1	14	13.15	0.021	13.16	0.021	13.12	0.021
3	16QAM	8	0	12.62	0.018	12.53	0.018	12.53	0.018
3	16QAM	8	4	12.44	0.018	12.34	0.017	12.35	0.017
3	16QAM	8	7	12.29	0.017	12.18	0.017	12.15	0.016
3	16QAM	15	0	12.17	0.016	11.98	0.016	12.03	0.016
3	64QAM	1	0	12.28	0.017	12.34	0.017	12.30	0.017
3	64QAM	1	8	12.23	0.017	12.24	0.017	12.17	0.016
3	64QAM	1	14	12.20	0.017	12.27	0.017	12.22	0.017
3	64QAM	8	0	11.65	0.015	11.49	0.014	11.40	0.014
3	64QAM	8	4	11.61	0.014	11.45	0.014	11.38	0.014
3	64QAM	8	7	11.57	0.014	11.42	0.014	11.33	0.014
3	64QAM	15	0	11.51	0.014	11.41	0.014	11.27	0.013



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	14.40	0.028	14.42	0.028	14.36	0.027
1.4	QPSK	1	3	14.28	0.027	14.22	0.026	14.26	0.027
1.4	QPSK	1	5	14.01	0.025	14.04	0.025	14.00	0.025
1.4	QPSK	3	0	13.23	0.021	13.31	0.021	13.35	0.022
1.4	QPSK	3	1	13.11	0.020	13.22	0.021	13.17	0.021
1.4	QPSK	3	3	12.95	0.020	13.04	0.020	12.95	0.020
1.4	QPSK	6	0	12.87	0.019	12.87	0.019	12.71	0.019
1.4	16QAM	1	0	13.45	0.022	13.48	0.022	13.41	0.022
1.4	16QAM	1	3	13.33	0.022	13.26	0.021	13.25	0.021
1.4	16QAM	1	5	13.15	0.021	13.18	0.021	13.09	0.020
1.4	16QAM	3	0	12.61	0.018	12.54	0.018	12.50	0.018
1.4	16QAM	3	1	12.44	0.018	12.38	0.017	12.34	0.017
1.4	16QAM	3	3	12.32	0.017	12.15	0.016	12.16	0.016
1.4	16QAM	6	0	12.14	0.016	11.95	0.016	12.02	0.016
1.4	64QAM	1	0	11.97	0.016	11.84	0.015	11.89	0.015
1.4	64QAM	1	3	12.02	0.016	11.83	0.015	11.85	0.015
1.4	64QAM	1	5	11.98	0.016	11.77	0.015	11.82	0.015
1.4	64QAM	3	0	11.66	0.015	11.52	0.014	11.43	0.014
1.4	64QAM	3	1	11.56	0.014	11.50	0.014	11.34	0.014
1.4	64QAM	3	3	11.55	0.014	11.45	0.014	11.32	0.014
1.4	64QAM	6	0	11.50	0.014	11.39	0.014	11.26	0.013



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	/	/	13.91	0.025	/	/
10	QPSK	1	25	/	/	13.78	0.024	/	/
10	QPSK	1	49	/	/	13.66	0.023	/	/
10	QPSK	25	0	/	/	12.95	0.020	/	/
10	QPSK	25	12	/	/	12.78	0.019	/	/
10	QPSK	25	25	/	/	12.63	0.018	/	/
10	QPSK	50	0	/	/	12.47	0.018	/	/
10	16QAM	1	0	/	/	13.14	0.021	/	/
10	16QAM	1	25	/	/	12.96	0.020	/	/
10	16QAM	1	49	/	/	12.78	0.019	/	/
10	16QAM	25	0	/	/	12.28	0.017	/	/
10	16QAM	25	12	/	/	12.16	0.016	/	/
10	16QAM	25	25	/	/	11.96	0.016	/	/
10	16QAM	50	0	/	/	11.86	0.015	/	/
10	64QAM	1	0	/	/	12.20	0.017	/	/
10	64QAM	1	25	/	/	12.17	0.016	/	/
10	64QAM	1	49	/	/	12.14	0.016	/	/
10	64QAM	25	0	/	/	11.32	0.014	/	/
10	64QAM	25	12	/	/	11.31	0.014	/	/
10	64QAM	25	25	/	/	11.29	0.013	/	/
10	64QAM	50	0	/	/	11.23	0.013	/	/



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	13.78	0.024	13.84	0.024	13.84	0.024
5	QPSK	1	12	13.62	0.023	13.73	0.024	13.63	0.023
5	QPSK	1	24	13.50	0.022	13.62	0.023	13.47	0.022
5	QPSK	12	0	12.74	0.019	12.91	0.020	12.65	0.018
5	QPSK	12	7	12.58	0.018	12.73	0.019	12.44	0.018
5	QPSK	12	13	12.48	0.018	12.55	0.018	12.24	0.017
5	QPSK	25	0	12.38	0.017	12.40	0.017	12.01	0.016
5	16QAM	1	0	13.04	0.020	13.08	0.020	12.64	0.018
5	16QAM	1	12	12.82	0.019	12.88	0.019	12.45	0.018
5	16QAM	1	24	12.61	0.018	12.69	0.019	12.36	0.017
5	16QAM	12	0	12.01	0.016	12.24	0.017	11.87	0.015
5	16QAM	12	7	11.89	0.015	12.08	0.016	11.67	0.015
5	16QAM	12	13	11.74	0.015	11.90	0.015	11.53	0.014
5	16QAM	25	0	11.57	0.014	11.83	0.015	11.35	0.014
5	64QAM	1	0	11.94	0.016	12.13	0.016	11.70	0.015
5	64QAM	1	12	11.89	0.015	12.11	0.016	11.64	0.015
5	64QAM	1	24	11.82	0.015	12.11	0.016	11.63	0.015
5	64QAM	12	0	11.03	0.013	11.29	0.013	10.84	0.012
5	64QAM	12	7	10.96	0.012	11.25	0.013	10.77	0.012
5	64QAM	12	13	10.92	0.012	11.26	0.013	10.73	0.012
5	64QAM	25	0	10.84	0.012	11.18	0.013	10.68	0.012



LTE Band 17				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23780		23790		23800	
Frequency (MHz)				709		710		711	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	14.39	0.027	14.48	0.028	14.37	0.027
10	QPSK	1	25	14.29	0.027	14.25	0.027	14.25	0.027
10	QPSK	1	49	14.07	0.026	14.05	0.025	14.05	0.025
10	QPSK	25	0	13.26	0.021	13.30	0.021	13.31	0.021
10	QPSK	25	12	13.14	0.021	13.21	0.021	13.15	0.021
10	QPSK	25	25	12.98	0.020	13.03	0.020	13.00	0.020
10	QPSK	50	0	12.91	0.020	12.88	0.019	12.74	0.019
10	16QAM	1	0	13.48	0.022	13.48	0.022	13.44	0.022
10	16QAM	1	25	13.38	0.022	13.27	0.021	13.25	0.021
10	16QAM	1	49	13.17	0.021	13.21	0.021	13.11	0.020
10	16QAM	25	0	12.62	0.018	12.60	0.018	12.51	0.018
10	16QAM	25	12	12.42	0.017	12.36	0.017	12.38	0.017
10	16QAM	25	25	12.33	0.017	12.19	0.017	12.17	0.016
10	16QAM	50	0	12.20	0.017	11.95	0.016	12.05	0.016
10	64QAM	1	0	12.00	0.016	11.80	0.015	11.91	0.016
10	64QAM	1	25	12.07	0.016	11.81	0.015	11.86	0.015
10	64QAM	1	49	12.03	0.016	11.83	0.015	11.80	0.015
10	64QAM	25	0	11.65	0.015	11.52	0.014	11.47	0.014
10	64QAM	25	12	11.59	0.014	11.48	0.014	11.38	0.014
10	64QAM	25	25	11.57	0.014	11.43	0.014	11.33	0.014
10	64QAM	50	0	11.53	0.014	11.41	0.014	11.27	0.013



LTE Band 17				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23755		23790		23825	
Frequency (MHz)				706.5		710		713.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	14.36	0.027	14.40	0.028	14.30	0.027
5	QPSK	1	12	14.24	0.027	14.17	0.026	14.20	0.026
5	QPSK	1	24	14.02	0.025	13.99	0.025	13.98	0.025
5	QPSK	12	0	13.21	0.021	13.26	0.021	13.27	0.021
5	QPSK	12	7	13.07	0.020	13.14	0.021	13.09	0.020
5	QPSK	12	13	12.91	0.020	13.00	0.020	12.94	0.020
5	QPSK	25	0	12.86	0.019	12.82	0.019	12.67	0.018
5	16QAM	1	0	13.45	0.022	13.43	0.022	13.37	0.022
5	16QAM	1	12	13.32	0.021	13.18	0.021	13.18	0.021
5	16QAM	1	24	13.12	0.021	13.17	0.021	13.02	0.020
5	16QAM	12	0	12.53	0.018	12.55	0.018	12.43	0.017
5	16QAM	12	7	12.38	0.017	12.30	0.017	12.33	0.017
5	16QAM	12	13	12.29	0.017	12.15	0.016	12.12	0.016
5	16QAM	25	0	12.16	0.016	11.91	0.016	11.99	0.016
5	64QAM	1	0	11.96	0.016	11.74	0.015	11.88	0.015
5	64QAM	1	12	12.00	0.016	11.74	0.015	11.80	0.015
5	64QAM	1	24	11.96	0.016	11.78	0.015	11.75	0.015
5	64QAM	12	0	11.57	0.014	11.46	0.014	11.41	0.014
5	64QAM	12	7	11.54	0.014	11.41	0.014	11.32	0.014
5	64QAM	12	13	11.50	0.014	11.37	0.014	11.25	0.013
5	64QAM	25	0	11.45	0.014	11.35	0.014	11.23	0.013



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	17.15	0.052	17.28	0.053	17.24	0.053
20	QPSK	1	49	17.15	0.052	17.18	0.052	17.14	0.052
20	QPSK	1	99	17.02	0.050	16.97	0.050	17.01	0.050
20	QPSK	50	0	16.22	0.042	16.22	0.042	16.29	0.043
20	QPSK	50	24	16.11	0.041	16.07	0.040	16.16	0.041
20	QPSK	50	50	15.90	0.039	15.93	0.039	16.00	0.040
20	QPSK	100	0	15.74	0.037	15.82	0.038	15.80	0.038
20	16QAM	1	0	16.43	0.044	16.41	0.044	16.41	0.044
20	16QAM	1	49	16.23	0.042	16.25	0.042	16.24	0.042
20	16QAM	1	99	16.09	0.041	16.11	0.041	16.06	0.040
20	16QAM	50	0	15.51	0.036	15.56	0.036	15.53	0.036
20	16QAM	50	24	15.40	0.035	15.45	0.035	15.40	0.035
20	16QAM	50	50	15.25	0.033	15.26	0.034	15.25	0.033
20	16QAM	100	0	15.09	0.032	15.15	0.033	15.08	0.032
20	64QAM	1	0	15.48	0.035	15.51	0.036	15.50	0.035
20	64QAM	1	49	15.40	0.035	15.50	0.035	15.46	0.035
20	64QAM	1	99	15.34	0.034	15.47	0.035	15.45	0.035
20	64QAM	50	0	15.03	0.032	15.10	0.032	15.08	0.032
20	64QAM	50	24	14.97	0.031	15.09	0.032	15.05	0.032
20	64QAM	50	50	14.92	0.031	15.01	0.032	15.00	0.032
20	64QAM	100	0	14.87	0.031	14.95	0.031	15.00	0.032



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	17.11	0.051	17.16	0.052	17.11	0.051
15	QPSK	1	37	16.92	0.049	17.01	0.050	16.95	0.050
15	QPSK	1	74	16.81	0.048	16.80	0.048	16.79	0.048
15	QPSK	36	0	15.99	0.040	16.00	0.040	16.00	0.040
15	QPSK	36	20	15.83	0.038	15.81	0.038	15.83	0.038
15	QPSK	36	39	15.71	0.037	15.60	0.036	15.69	0.037
15	QPSK	75	0	15.60	0.036	15.45	0.035	15.57	0.036
15	16QAM	1	0	16.25	0.042	16.14	0.041	16.18	0.041
15	16QAM	1	37	16.14	0.041	16.03	0.040	16.04	0.040
15	16QAM	1	74	15.99	0.040	15.84	0.038	15.88	0.039
15	16QAM	36	0	15.46	0.035	15.31	0.034	15.26	0.034
15	16QAM	36	20	15.26	0.034	15.18	0.033	15.13	0.033
15	16QAM	36	39	15.09	0.032	14.96	0.031	14.97	0.031
15	16QAM	75	0	14.90	0.031	14.80	0.030	14.84	0.030
15	64QAM	1	0	15.27	0.034	15.14	0.033	15.24	0.033
15	64QAM	1	37	15.25	0.033	15.08	0.032	15.23	0.033
15	64QAM	1	74	15.21	0.033	15.02	0.032	15.16	0.033
15	64QAM	36	0	14.88	0.031	14.72	0.030	14.83	0.030
15	64QAM	36	20	14.85	0.031	14.72	0.030	14.76	0.030
15	64QAM	36	39	14.81	0.030	14.67	0.029	14.72	0.030
15	64QAM	75	0	14.74	0.030	14.62	0.029	14.68	0.029



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	17.12	0.052	17.13	0.052	17.11	0.051
10	QPSK	1	25	16.96	0.050	16.97	0.050	16.93	0.049
10	QPSK	1	49	16.73	0.047	16.77	0.048	16.77	0.048
10	QPSK	25	0	15.91	0.039	15.96	0.039	15.93	0.039
10	QPSK	25	12	15.74	0.037	15.76	0.038	15.80	0.038
10	QPSK	25	25	15.59	0.036	15.65	0.037	15.73	0.037
10	QPSK	50	0	15.48	0.035	15.41	0.035	15.62	0.036
10	16QAM	1	0	16.12	0.041	16.05	0.040	16.17	0.041
10	16QAM	1	25	15.92	0.039	15.95	0.039	16.05	0.040
10	16QAM	1	49	15.81	0.038	15.74	0.037	15.92	0.039
10	16QAM	25	0	15.28	0.034	15.22	0.033	15.37	0.034
10	16QAM	25	12	15.09	0.032	15.06	0.032	15.24	0.033
10	16QAM	25	25	15.01	0.032	14.84	0.030	15.03	0.032
10	16QAM	50	0	14.88	0.031	14.64	0.029	14.95	0.031
10	64QAM	1	0	15.28	0.034	15.04	0.032	15.38	0.035
10	64QAM	1	25	15.25	0.033	14.98	0.031	15.31	0.034
10	64QAM	1	49	15.22	0.033	14.95	0.031	15.25	0.033
10	64QAM	25	0	14.83	0.030	14.59	0.029	14.92	0.031
10	64QAM	25	12	14.75	0.030	14.62	0.029	14.90	0.031
10	64QAM	25	25	14.73	0.030	14.57	0.029	14.86	0.031
10	64QAM	50	0	14.72	0.030	14.49	0.028	14.79	0.030



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	17.08	0.051	17.12	0.052	17.11	0.051
5	QPSK	1	12	16.92	0.049	16.95	0.050	16.92	0.049
5	QPSK	1	24	16.71	0.047	16.78	0.048	16.74	0.047
5	QPSK	12	0	15.92	0.039	15.92	0.039	15.95	0.039
5	QPSK	12	7	15.71	0.037	15.79	0.038	15.85	0.038
5	QPSK	12	13	15.62	0.036	15.65	0.037	15.74	0.037
5	QPSK	25	0	15.50	0.035	15.45	0.035	15.60	0.036
5	16QAM	1	0	16.15	0.041	16.08	0.041	16.20	0.042
5	16QAM	1	12	15.92	0.039	15.97	0.040	16.01	0.040
5	16QAM	1	24	15.85	0.038	15.74	0.037	15.93	0.039
5	16QAM	12	0	15.26	0.034	15.19	0.033	15.39	0.035
5	16QAM	12	7	15.13	0.033	15.03	0.032	15.26	0.034
5	16QAM	12	13	15.00	0.032	14.87	0.031	15.03	0.032
5	16QAM	25	0	14.88	0.031	14.65	0.029	14.93	0.031
5	64QAM	1	0	15.27	0.034	15.03	0.032	15.37	0.034
5	64QAM	1	12	15.26	0.034	15.02	0.032	15.27	0.034
5	64QAM	1	24	15.19	0.033	14.95	0.031	15.23	0.033
5	64QAM	12	0	14.84	0.030	14.59	0.029	14.93	0.031
5	64QAM	12	7	14.75	0.030	14.56	0.029	14.91	0.031
5	64QAM	12	13	14.73	0.030	14.57	0.029	14.88	0.031
5	64QAM	25	0	14.74	0.030	14.53	0.028	14.82	0.030



LTE Band 40, Block A				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				/		38750		/	
Frequency (MHz)				/		2310		/	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	/	/	17.22	0.053	/	/
10	QPSK	1	25	/	/	17.03	0.050	/	/
10	QPSK	1	49	/	/	16.83	0.048	/	/
10	QPSK	25	0	/	/	16.20	0.042	/	/
10	QPSK	25	12	/	/	15.94	0.039	/	/
10	QPSK	25	25	/	/	15.82	0.038	/	/
10	QPSK	50	0	/	/	15.65	0.037	/	/
10	16QAM	1	0	/	/	16.35	0.043	/	/
10	16QAM	1	25	/	/	16.21	0.042	/	/
10	16QAM	1	49	/	/	16.02	0.040	/	/
10	16QAM	25	0	/	/	15.43	0.035	/	/
10	16QAM	25	12	/	/	15.29	0.034	/	/
10	16QAM	25	25	/	/	15.18	0.033	/	/
10	16QAM	50	0	/	/	15.03	0.032	/	/
10	64QAM	1	0	/	/	15.49	0.035	/	/
10	64QAM	1	25	/	/	15.44	0.035	/	/
10	64QAM	1	49	/	/	15.43	0.035	/	/
10	64QAM	25	0	/	/	15.07	0.032	/	/
10	64QAM	25	12	/	/	15.04	0.032	/	/
10	64QAM	25	25	/	/	14.96	0.031	/	/
10	64QAM	50	0	/	/	14.91	0.031	/	/



LTE Band 40, Block A				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				38725		38750		38775	
Frequency (MHz)				2307.5		2310		2312.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	17.20	0.052	17.21	0.053	17.16	0.052
5	QPSK	1	12	17.06	0.051	17.01	0.050	17.00	0.050
5	QPSK	1	24	16.90	0.049	16.78	0.048	16.84	0.048
5	QPSK	12	0	16.18	0.041	16.12	0.041	16.03	0.040
5	QPSK	12	7	16.01	0.040	15.91	0.039	15.84	0.038
5	QPSK	12	13	15.87	0.039	15.75	0.038	15.69	0.037
5	QPSK	25	0	15.65	0.037	15.63	0.037	15.49	0.035
5	16QAM	1	0	16.34	0.043	16.29	0.043	16.10	0.041
5	16QAM	1	12	16.17	0.041	16.13	0.041	15.94	0.039
5	16QAM	1	24	16.01	0.040	15.97	0.040	15.71	0.037
5	16QAM	12	0	15.37	0.034	15.37	0.034	15.13	0.033
5	16QAM	12	7	15.20	0.033	15.23	0.033	14.90	0.031
5	16QAM	12	13	15.03	0.032	15.14	0.033	14.80	0.030
5	16QAM	25	0	14.86	0.031	14.98	0.031	14.64	0.029
5	64QAM	1	0	15.19	0.033	15.43	0.035	14.94	0.031
5	64QAM	1	12	15.18	0.033	15.37	0.034	14.90	0.031
5	64QAM	1	24	15.11	0.032	15.36	0.034	14.88	0.031
5	64QAM	12	0	14.82	0.030	15.02	0.032	14.57	0.029
5	64QAM	12	7	14.81	0.030	14.98	0.031	14.57	0.029
5	64QAM	12	13	14.79	0.030	14.93	0.031	14.55	0.029
5	64QAM	25	0	14.68	0.029	14.83	0.030	14.53	0.028



LTE Band 40, Block B				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				/		39200		/	
Frequency (MHz)				/		2355		/	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	/	/	17.25	0.053	/	/
10	QPSK	1	25	/	/	17.07	0.051	/	/
10	QPSK	1	49	/	/	16.87	0.049	/	/
10	QPSK	25	0	/	/	16.16	0.041	/	/
10	QPSK	25	12	/	/	16.05	0.040	/	/
10	QPSK	25	25	/	/	15.86	0.039	/	/
10	QPSK	50	0	/	/	15.76	0.038	/	/
10	16QAM	1	0	/	/	16.35	0.043	/	/
10	16QAM	1	25	/	/	16.15	0.041	/	/
10	16QAM	1	49	/	/	15.94	0.039	/	/
10	16QAM	25	0	/	/	15.35	0.034	/	/
10	16QAM	25	12	/	/	15.23	0.033	/	/
10	16QAM	25	25	/	/	15.09	0.032	/	/
10	16QAM	50	0	/	/	14.89	0.031	/	/
10	64QAM	1	0	/	/	15.22	0.033	/	/
10	64QAM	1	25	/	/	15.21	0.033	/	/
10	64QAM	1	49	/	/	15.19	0.033	/	/
10	64QAM	25	0	/	/	14.83	0.030	/	/
10	64QAM	25	12	/	/	14.83	0.030	/	/
10	64QAM	25	25	/	/	14.80	0.030	/	/
10	64QAM	50	0	/	/	14.76	0.030	/	/



LTE Band 40, Block B				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39175		39200		39225	
Frequency (MHz)				2352.5		2355		2357.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	17.17	0.052	17.22	0.053	17.17	0.052
5	QPSK	1	12	16.98	0.050	17.07	0.051	17.01	0.050
5	QPSK	1	24	16.87	0.049	16.86	0.049	16.85	0.048
5	QPSK	12	0	16.05	0.040	16.06	0.040	16.06	0.040
5	QPSK	12	7	15.89	0.039	15.87	0.039	15.89	0.039
5	QPSK	12	13	15.77	0.038	15.66	0.037	15.75	0.038
5	QPSK	25	0	15.66	0.037	15.51	0.036	15.63	0.037
5	16QAM	1	0	16.31	0.043	16.20	0.042	16.24	0.042
5	16QAM	1	12	16.20	0.042	16.09	0.041	16.10	0.041
5	16QAM	1	24	16.05	0.040	15.90	0.039	15.94	0.039
5	16QAM	12	0	15.52	0.036	15.37	0.034	15.32	0.034
5	16QAM	12	7	15.32	0.034	15.24	0.033	15.19	0.033
5	16QAM	12	13	15.15	0.033	15.02	0.032	15.03	0.032
5	16QAM	25	0	14.96	0.031	14.86	0.031	14.90	0.031
5	64QAM	1	0	15.33	0.034	15.20	0.033	15.30	0.034
5	64QAM	1	12	15.31	0.034	15.14	0.033	15.29	0.034
5	64QAM	1	24	15.27	0.034	15.08	0.032	15.22	0.033
5	64QAM	12	0	14.94	0.031	14.78	0.030	14.89	0.031
5	64QAM	12	7	14.91	0.031	14.78	0.030	14.82	0.030
5	64QAM	12	13	14.87	0.031	14.73	0.030	14.78	0.030
5	64QAM	25	0	14.80	0.030	14.68	0.029	14.74	0.030



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	17.91	0.062	17.92	0.062	17.86	0.061
20	QPSK	1	49	17.70	0.059	17.72	0.059	17.65	0.058
20	QPSK	1	99	17.54	0.057	17.60	0.058	17.50	0.056
20	QPSK	50	0	16.79	0.048	16.83	0.048	16.74	0.047
20	QPSK	50	24	16.66	0.046	16.65	0.046	16.56	0.045
20	QPSK	50	50	16.51	0.045	16.51	0.045	16.58	0.045
20	QPSK	100	0	16.52	0.045	16.62	0.046	16.57	0.045
20	16QAM	1	0	16.95	0.050	16.99	0.050	16.90	0.049
20	16QAM	1	49	16.75	0.047	16.82	0.048	16.70	0.047
20	16QAM	1	99	16.64	0.046	16.63	0.046	16.54	0.045
20	16QAM	50	0	16.08	0.041	16.11	0.041	15.94	0.039
20	16QAM	50	24	15.87	0.039	15.93	0.039	15.80	0.038
20	16QAM	50	50	15.73	0.037	15.79	0.038	15.69	0.037
20	16QAM	100	0	15.54	0.036	15.63	0.037	15.56	0.036
20	64QAM	1	0	15.98	0.040	16.05	0.040	15.91	0.039
20	64QAM	1	49	15.97	0.040	16.01	0.040	15.84	0.038
20	64QAM	1	99	15.96	0.039	15.97	0.040	15.78	0.038
20	64QAM	50	0	15.63	0.037	15.66	0.037	15.45	0.035
20	64QAM	50	24	15.57	0.036	15.62	0.036	15.42	0.035
20	64QAM	50	50	15.56	0.036	15.54	0.036	15.42	0.035
20	64QAM	100	0	15.55	0.036	15.53	0.036	15.40	0.035



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	17.85	0.061	17.86	0.061	17.80	0.060
15	QPSK	1	37	17.62	0.058	17.68	0.059	17.58	0.057
15	QPSK	1	74	17.45	0.056	17.54	0.057	17.45	0.056
15	QPSK	36	0	16.74	0.047	16.77	0.048	16.71	0.047
15	QPSK	36	20	16.58	0.045	16.62	0.046	16.48	0.044
15	QPSK	36	39	16.45	0.044	16.43	0.044	16.35	0.043
15	QPSK	75	0	16.26	0.042	16.27	0.042	16.22	0.042
15	16QAM	1	0	16.87	0.049	16.95	0.050	16.82	0.048
15	16QAM	1	37	16.71	0.047	16.76	0.047	16.66	0.046
15	16QAM	1	74	16.58	0.045	16.57	0.045	16.47	0.044
15	16QAM	36	0	16.04	0.040	16.08	0.041	15.86	0.039
15	16QAM	36	20	15.79	0.038	15.88	0.039	15.73	0.037
15	16QAM	36	39	15.64	0.037	15.76	0.038	15.61	0.036
15	16QAM	75	0	15.49	0.035	15.57	0.036	15.47	0.035
15	64QAM	1	0	15.90	0.039	15.99	0.040	15.83	0.038
15	64QAM	1	37	15.94	0.039	15.96	0.039	15.80	0.038
15	64QAM	1	74	15.89	0.039	15.92	0.039	15.71	0.037
15	64QAM	36	0	15.59	0.036	15.59	0.036	15.39	0.035
15	64QAM	36	20	15.49	0.035	15.58	0.036	15.34	0.034
15	64QAM	36	39	15.47	0.035	15.46	0.035	15.39	0.035
15	64QAM	75	0	15.51	0.036	15.44	0.035	15.35	0.034



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	17.68	0.059	17.81	0.060	17.77	0.060
10	QPSK	1	25	17.61	0.058	17.62	0.058	17.53	0.057
10	QPSK	1	49	17.43	0.055	17.53	0.057	17.37	0.055
10	QPSK	25	0	16.70	0.047	16.70	0.047	16.64	0.046
10	QPSK	25	12	16.52	0.045	16.58	0.045	16.45	0.044
10	QPSK	25	25	16.40	0.044	16.39	0.044	16.26	0.042
10	QPSK	50	0	16.20	0.042	16.20	0.042	16.23	0.042
10	16QAM	1	0	16.83	0.048	16.86	0.049	16.76	0.047
10	16QAM	1	25	16.61	0.046	16.65	0.046	16.57	0.045
10	16QAM	1	49	16.54	0.045	16.54	0.045	16.39	0.044
10	16QAM	25	0	16.00	0.040	16.01	0.040	15.81	0.038
10	16QAM	25	12	15.78	0.038	15.84	0.038	15.68	0.037
10	16QAM	25	25	15.63	0.037	15.67	0.037	15.57	0.036
10	16QAM	50	0	15.40	0.035	15.54	0.036	15.44	0.035
10	64QAM	1	0	15.83	0.038	15.89	0.039	15.83	0.038
10	64QAM	1	25	15.84	0.038	15.89	0.039	15.76	0.038
10	64QAM	1	49	15.81	0.038	15.84	0.038	15.68	0.037
10	64QAM	25	0	15.49	0.035	15.54	0.036	15.37	0.034
10	64QAM	25	12	15.44	0.035	15.48	0.035	15.32	0.034
10	64QAM	25	25	15.48	0.035	15.44	0.035	15.33	0.034
10	64QAM	50	0	15.45	0.035	15.42	0.035	15.28	0.034



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	17.79	0.060	17.82	0.061	17.79	0.060
5	QPSK	1	12	17.56	0.057	17.64	0.058	17.53	0.057
5	QPSK	1	24	17.43	0.055	17.48	0.056	17.38	0.055
5	QPSK	12	0	16.70	0.047	16.69	0.047	16.60	0.046
5	QPSK	12	7	16.55	0.045	16.59	0.046	16.43	0.044
5	QPSK	12	13	16.35	0.043	16.42	0.044	16.25	0.042
5	QPSK	25	0	16.26	0.042	16.29	0.043	16.28	0.042
5	16QAM	1	0	16.83	0.048	16.86	0.049	16.80	0.048
5	16QAM	1	12	16.62	0.046	16.68	0.047	16.53	0.045
5	16QAM	1	24	16.54	0.045	16.51	0.045	16.41	0.044
5	16QAM	12	0	15.97	0.040	16.00	0.040	15.81	0.038
5	16QAM	12	7	15.76	0.038	15.82	0.038	15.64	0.037
5	16QAM	12	13	15.66	0.037	15.64	0.037	15.53	0.036
5	16QAM	25	0	15.42	0.035	15.52	0.036	15.42	0.035
5	64QAM	1	0	15.85	0.038	15.89	0.039	15.79	0.038
5	64QAM	1	12	15.84	0.038	15.86	0.039	15.74	0.037
5	64QAM	1	24	15.84	0.038	15.80	0.038	15.66	0.037
5	64QAM	12	0	15.53	0.036	15.56	0.036	15.34	0.034
5	64QAM	12	7	15.46	0.035	15.53	0.036	15.32	0.034
5	64QAM	12	13	15.44	0.035	15.44	0.035	15.33	0.034
5	64QAM	25	0	15.43	0.035	15.41	0.035	15.30	0.034



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	17.81	0.060	17.83	0.061	17.75	0.060
3	QPSK	1	8	17.57	0.057	17.63	0.058	17.50	0.056
3	QPSK	1	14	17.47	0.056	17.51	0.056	17.39	0.055
3	QPSK	8	0	16.71	0.047	16.70	0.047	16.62	0.046
3	QPSK	8	4	16.53	0.045	16.57	0.045	16.46	0.044
3	QPSK	8	7	16.38	0.043	16.40	0.044	16.23	0.042
3	QPSK	15	0	16.20	0.042	16.25	0.042	16.23	0.042
3	16QAM	1	0	16.81	0.048	16.86	0.049	16.78	0.048
3	16QAM	1	8	16.65	0.046	16.67	0.046	16.54	0.045
3	16QAM	1	14	16.57	0.045	16.55	0.045	16.37	0.043
3	16QAM	8	0	16.00	0.040	16.01	0.040	15.77	0.038
3	16QAM	8	4	15.76	0.038	15.79	0.038	15.69	0.037
3	16QAM	8	7	15.65	0.037	15.63	0.037	15.53	0.036
3	16QAM	15	0	15.40	0.035	15.50	0.035	15.39	0.035
3	64QAM	1	0	15.83	0.038	15.93	0.039	15.84	0.038
3	64QAM	1	8	15.87	0.039	15.89	0.039	15.71	0.037
3	64QAM	1	14	15.82	0.038	15.82	0.038	15.68	0.037
3	64QAM	8	0	15.53	0.036	15.55	0.036	15.37	0.034
3	64QAM	8	4	15.46	0.035	15.50	0.035	15.31	0.034
3	64QAM	8	7	15.48	0.035	15.42	0.035	15.33	0.034
3	64QAM	15	0	15.46	0.035	15.39	0.035	15.29	0.034



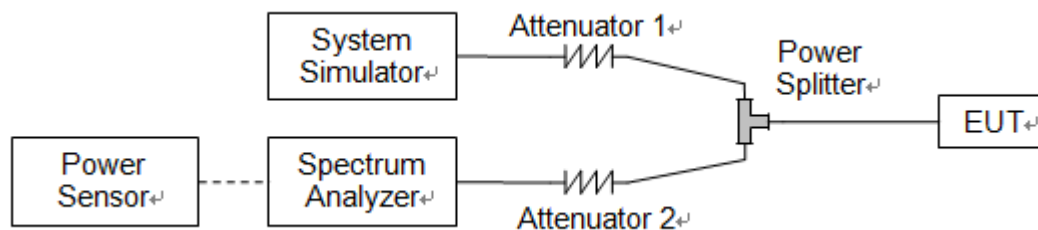
LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131979		132322		132665	
Frequency (MHz)				1710.7		1745		1779.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	17.80	0.060	17.79	0.060	17.74	0.059
1.4	QPSK	1	3	17.57	0.057	17.62	0.058	17.53	0.057
1.4	QPSK	1	5	17.45	0.056	17.48	0.056	17.40	0.055
1.4	QPSK	3	0	16.71	0.047	16.70	0.047	16.65	0.046
1.4	QPSK	3	1	16.55	0.045	16.59	0.046	16.41	0.044
1.4	QPSK	3	3	16.38	0.043	16.42	0.044	16.27	0.042
1.4	QPSK	6	0	16.18	0.041	16.20	0.042	16.14	0.041
1.4	16QAM	1	0	16.87	0.049	16.86	0.049	16.76	0.047
1.4	16QAM	1	3	16.64	0.046	16.68	0.047	16.55	0.045
1.4	16QAM	1	5	16.54	0.045	16.57	0.045	16.43	0.044
1.4	16QAM	3	0	15.99	0.040	16.04	0.040	15.80	0.038
1.4	16QAM	3	1	15.76	0.038	15.82	0.038	15.65	0.037
1.4	16QAM	3	3	15.67	0.037	15.64	0.037	15.55	0.036
1.4	16QAM	6	0	15.40	0.035	15.51	0.036	15.43	0.035
1.4	64QAM	1	0	15.85	0.038	15.92	0.039	15.84	0.038
1.4	64QAM	1	3	15.84	0.038	15.88	0.039	15.73	0.037
1.4	64QAM	1	5	15.80	0.038	15.85	0.038	15.67	0.037
1.4	64QAM	3	0	15.51	0.036	15.52	0.036	15.37	0.034
1.4	64QAM	3	1	15.45	0.035	15.50	0.035	15.32	0.034
1.4	64QAM	3	3	15.48	0.035	15.46	0.035	15.34	0.034
1.4	64QAM	6	0	15.45	0.035	15.44	0.035	15.26	0.034

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.



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	1.0939	1.2530	PASS
B2	1.4	Low	18607	1850.7	16QAM	1.0972	1.2488	PASS
B2	1.4	Low	18607	1850.7	64QAM	1.1054	1.2484	PASS
B2	1.4	Mid	18900	1880	QPSK	1.0971	1.2436	PASS
B2	1.4	Mid	18900	1880	16QAM	1.1001	1.2491	PASS
B2	1.4	Mid	18900	1880	64QAM	1.1045	1.2505	PASS
B2	1.4	High	19193	1909.3	QPSK	1.1008	1.2441	PASS
B2	1.4	High	19193	1909.3	16QAM	1.0982	1.2501	PASS
B2	1.4	High	19193	1909.3	64QAM	1.1038	1.2543	PASS
B2	3	Low	18615	1851.5	QPSK	2.7175	3.0497	PASS
B2	3	Low	18615	1851.5	16QAM	2.7131	3.0469	PASS
B2	3	Low	18615	1851.5	64QAM	2.7134	3.0541	PASS
B2	3	Mid	18900	1880	QPSK	2.7127	3.0523	PASS
B2	3	Mid	18900	1880	16QAM	2.7163	3.0460	PASS
B2	3	Mid	18900	1880	64QAM	2.7116	3.0523	PASS
B2	3	High	19185	1908.5	QPSK	2.7154	3.0407	PASS
B2	3	High	19185	1908.5	16QAM	2.7180	3.0575	PASS
B2	3	High	19185	1908.5	64QAM	2.7073	3.0313	PASS
B2	5	Low	18625	1852.5	QPSK	4.4621	4.8914	PASS
B2	5	Low	18625	1852.5	16QAM	4.4725	4.9118	PASS
B2	5	Low	18625	1852.5	64QAM	4.4780	4.9093	PASS
B2	5	Mid	18900	1880	QPSK	4.4734	4.8668	PASS
B2	5	Mid	18900	1880	16QAM	4.4761	4.9073	PASS
B2	5	Mid	18900	1880	64QAM	4.4799	4.9083	PASS
B2	5	High	19175	1907.5	QPSK	4.4682	4.8921	PASS
B2	5	High	19175	1907.5	16QAM	4.4748	4.8647	PASS
B2	5	High	19175	1907.5	64QAM	4.4736	4.8885	PASS
B2	10	Low	18650	1855	QPSK	8.9566	9.7212	PASS
B2	10	Low	18650	1855	16QAM	8.9283	9.6665	PASS
B2	10	Low	18650	1855	64QAM	8.9454	9.7566	PASS
B2	10	Mid	18900	1880	QPSK	8.9630	9.7574	PASS
B2	10	Mid	18900	1880	16QAM	8.9288	9.6747	PASS
B2	10	Mid	18900	1880	64QAM	8.8907	9.1997	PASS



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B2	10	High	19150	1905	QPSK	8.9616	9.7394	PASS
B2	10	High	19150	1905	16QAM	8.9305	9.6462	PASS
B2	10	High	19150	1905	64QAM	8.9568	9.8220	PASS
B2	15	Low	18675	1857.5	QPSK	13.389	14.567	PASS
B2	15	Low	18675	1857.5	16QAM	13.418	14.774	PASS
B2	15	Low	18675	1857.5	64QAM	13.395	14.646	PASS
B2	15	Mid	18900	1880	QPSK	13.442	14.624	PASS
B2	15	Mid	18900	1880	16QAM	13.437	14.772	PASS
B2	15	Mid	18900	1880	64QAM	13.403	14.603	PASS
B2	15	High	19125	1902.5	QPSK	13.461	14.655	PASS
B2	15	High	19125	1902.5	16QAM	13.444	14.836	PASS
B2	15	High	19125	1902.5	64QAM	13.421	14.706	PASS
B2	20	Low	18700	1860	QPSK	17.885	19.238	PASS
B2	20	Low	18700	1860	16QAM	17.885	19.576	PASS
B2	20	Low	18700	1860	64QAM	17.899	19.418	PASS
B2	20	Mid	18900	1880	QPSK	17.928	19.546	PASS
B2	20	Mid	18900	1880	16QAM	17.966	19.496	PASS
B2	20	Mid	18900	1880	64QAM	17.950	19.455	PASS
B2	20	High	19100	1900	QPSK	17.909	19.480	PASS
B2	20	High	19100	1900	16QAM	17.905	19.511	PASS
B2	20	High	19100	1900	64QAM	17.921	19.372	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	1.0984	1.2448	PASS
B4	1.4	Low	19957	1710.7	16QAM	1.1015	1.2497	PASS
B4	1.4	Low	19957	1710.7	64QAM	1.1012	1.2568	PASS
B4	1.4	Mid	20175	1732.5	QPSK	1.0973	1.2458	PASS
B4	1.4	Mid	20175	1732.5	16QAM	1.0995	1.2478	PASS
B4	1.4	Mid	20175	1732.5	64QAM	1.1054	1.2492	PASS
B4	1.4	High	20393	1754.3	QPSK	1.0982	1.2458	PASS
B4	1.4	High	20393	1754.3	16QAM	1.0967	1.2535	PASS
B4	1.4	High	20393	1754.3	64QAM	1.1068	1.2574	PASS
B4	3	Low	19965	1711.5	QPSK	2.7152	3.0566	PASS
B4	3	Low	19965	1711.5	16QAM	2.7170	3.0718	PASS
B4	3	Low	19965	1711.5	64QAM	2.7187	3.0385	PASS
B4	3	Mid	20175	1732.5	QPSK	2.7155	3.0741	PASS
B4	3	Mid	20175	1732.5	16QAM	2.7143	3.0640	PASS
B4	3	Mid	20175	1732.5	64QAM	2.7103	3.0256	PASS
B4	3	High	20385	1753.5	QPSK	2.7172	3.0521	PASS
B4	3	High	20385	1753.5	16QAM	2.7095	3.0561	PASS
B4	3	High	20385	1753.5	64QAM	2.7163	3.0466	PASS
B4	5	Low	19975	1712.5	QPSK	4.4767	4.8960	PASS
B4	5	Low	19975	1712.5	16QAM	4.4737	4.9160	PASS
B4	5	Low	19975	1712.5	64QAM	4.4812	4.9073	PASS
B4	5	Mid	20175	1732.5	QPSK	4.4700	4.8659	PASS
B4	5	Mid	20175	1732.5	16QAM	4.4751	4.8989	PASS
B4	5	Mid	20175	1732.5	64QAM	4.4669	4.7208	PASS
B4	5	High	20375	1752.5	QPSK	4.4763	4.8798	PASS
B4	5	High	20375	1752.5	16QAM	4.4777	4.9318	PASS
B4	5	High	20375	1752.5	64QAM	4.4788	4.8950	PASS
B4	10	Low	20000	1715	QPSK	8.9564	9.8033	PASS
B4	10	Low	20000	1715	16QAM	8.9379	9.6793	PASS
B4	10	Low	20000	1715	64QAM	8.9581	9.8026	PASS
B4	10	Mid	20175	1732.5	QPSK	8.9453	9.7622	PASS
B4	10	Mid	20175	1732.5	16QAM	8.9320	9.6879	PASS
B4	10	Mid	20175	1732.5	64QAM	8.9569	9.8035	PASS
B4	10	High	20350	1750	QPSK	8.9616	9.7240	PASS
B4	10	High	20350	1750	16QAM	8.9461	9.7428	PASS



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B4	10	High	20350	1750	64QAM	8.9588	9.8157	PASS
B4	15	Low	20025	1717.5	QPSK	13.413	14.573	PASS
B4	15	Low	20025	1717.5	16QAM	13.417	14.674	PASS
B4	15	Low	20025	1717.5	64QAM	13.412	14.707	PASS
B4	15	Mid	20175	1732.5	QPSK	13.435	14.564	PASS
B4	15	Mid	20175	1732.5	16QAM	13.434	14.737	PASS
B4	15	Mid	20175	1732.5	64QAM	13.407	14.670	PASS
B4	15	High	20325	1747.5	QPSK	13.403	14.712	PASS
B4	15	High	20325	1747.5	16QAM	13.435	14.708	PASS
B4	15	High	20325	1747.5	64QAM	13.413	14.759	PASS
B4	20	Low	20050	1720	QPSK	17.875	19.303	PASS
B4	20	Low	20050	1720	16QAM	17.924	19.620	PASS
B4	20	Low	20050	1720	64QAM	17.889	19.487	PASS
B4	20	Mid	20175	1732.5	QPSK	17.903	19.519	PASS
B4	20	Mid	20175	1732.5	16QAM	17.936	19.645	PASS
B4	20	Mid	20175	1732.5	64QAM	17.922	19.411	PASS
B4	20	High	20300	1745	QPSK	17.914	19.453	PASS
B4	20	High	20300	1745	16QAM	17.952	19.482	PASS
B4	20	High	20300	1745	64QAM	17.898	19.538	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	1.0973	1.2439	PASS
B5	1.4	Low	20407	824.7	16QAM	1.1008	1.2455	PASS
B5	1.4	Low	20407	824.7	64QAM	1.1027	1.2495	PASS
B5	1.4	Mid	20525	836.5	QPSK	1.0960	1.2422	PASS
B5	1.4	Mid	20525	836.5	16QAM	1.0993	1.2428	PASS
B5	1.4	Mid	20525	836.5	64QAM	1.1027	1.2556	PASS
B5	1.4	High	20643	848.3	QPSK	1.0967	1.2411	PASS
B5	1.4	High	20643	848.3	16QAM	1.0968	1.2499	PASS
B5	1.4	High	20643	848.3	64QAM	1.0992	1.2533	PASS
B5	3	Low	20415	825.5	QPSK	2.7163	3.0588	PASS
B5	3	Low	20415	825.5	16QAM	2.7141	3.0580	PASS
B5	3	Low	20415	825.5	64QAM	2.7135	3.0348	PASS
B5	3	Mid	20525	836.5	QPSK	2.7142	3.0364	PASS
B5	3	Mid	20525	836.5	16QAM	2.7115	3.0413	PASS
B5	3	Mid	20525	836.5	64QAM	2.7118	3.0443	PASS
B5	3	High	20635	847.5	QPSK	2.7131	3.0518	PASS
B5	3	High	20635	847.5	16QAM	2.7138	3.0657	PASS
B5	3	High	20635	847.5	64QAM	2.7103	3.0377	PASS
B5	5	Low	20425	826.5	QPSK	4.4665	4.8956	PASS
B5	5	Low	20425	826.5	16QAM	4.4731	4.8595	PASS
B5	5	Low	20425	826.5	64QAM	4.4747	4.8807	PASS
B5	5	Mid	20525	836.5	QPSK	4.4661	4.8896	PASS
B5	5	Mid	20525	836.5	16QAM	4.4673	4.8974	PASS
B5	5	Mid	20525	836.5	64QAM	4.4816	4.9100	PASS
B5	5	High	20625	846.5	QPSK	4.4735	4.8793	PASS
B5	5	High	20625	846.5	16QAM	4.4635	4.9086	PASS
B5	5	High	20625	846.5	64QAM	4.4797	4.9078	PASS
B5	10	Low	20450	829	QPSK	8.9529	9.7975	PASS
B5	10	Low	20450	829	16QAM	8.9289	9.6812	PASS
B5	10	Low	20450	829	64QAM	8.9429	9.7169	PASS
B5	10	Mid	20525	836.5	QPSK	8.9528	9.7231	PASS
B5	10	Mid	20525	836.5	16QAM	8.9258	9.6906	PASS
B5	10	Mid	20525	836.5	64QAM	8.9596	9.7371	PASS
B5	10	High	20600	844	QPSK	8.9385	9.6498	PASS
B5	10	High	20600	844	16QAM	8.9341	9.6688	PASS



B5	10	High	20600	844	64QAM	8.9532	9.7714	PASS
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LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B7	5	Low	20775	2502.5	QPSK	4.4678	4.8817	PASS
B7	5	Low	20775	2502.5	16QAM	4.4680	4.9218	PASS
B7	5	Low	20775	2502.5	64QAM	4.4788	4.8747	PASS
B7	5	Mid	21100	2535	QPSK	4.4700	4.8941	PASS
B7	5	Mid	21100	2535	16QAM	4.4683	4.8933	PASS
B7	5	Mid	21100	2535	64QAM	4.4770	4.8923	PASS
B7	5	High	21425	2567.5	QPSK	4.4720	4.8973	PASS
B7	5	High	21425	2567.5	16QAM	4.4750	4.8869	PASS
B7	5	High	21425	2567.5	64QAM	4.4820	4.8899	PASS
B7	10	Low	20800	2505	QPSK	8.9574	9.7550	PASS
B7	10	Low	20800	2505	16QAM	8.9242	9.7384	PASS
B7	10	Low	20800	2505	64QAM	8.9499	9.7538	PASS
B7	10	Mid	21100	2535	QPSK	8.9538	9.7443	PASS
B7	10	Mid	21100	2535	16QAM	8.9289	9.7074	PASS
B7	10	Mid	21100	2535	64QAM	8.9559	9.7402	PASS
B7	10	High	21400	2565	QPSK	8.9685	9.7439	PASS
B7	10	High	21400	2565	16QAM	8.9387	9.7178	PASS
B7	10	High	21400	2565	64QAM	8.9583	9.6866	PASS
B7	15	Low	20825	2507.5	QPSK	13.427	14.564	PASS
B7	15	Low	20825	2507.5	16QAM	13.416	14.755	PASS
B7	15	Low	20825	2507.5	64QAM	13.401	14.698	PASS
B7	15	Mid	21100	2535	QPSK	13.457	14.677	PASS
B7	15	Mid	21100	2535	16QAM	13.428	14.731	PASS
B7	15	Mid	21100	2535	64QAM	13.423	14.651	PASS
B7	15	High	21375	2562.5	QPSK	13.445	14.791	PASS
B7	15	High	21375	2562.5	16QAM	13.428	14.678	PASS
B7	15	High	21375	2562.5	64QAM	13.441	14.656	PASS
B7	20	Low	20850	2510	QPSK	17.874	19.421	PASS
B7	20	Low	20850	2510	16QAM	17.907	19.444	PASS
B7	20	Low	20850	2510	64QAM	17.910	19.472	PASS
B7	20	Mid	21100	2535	QPSK	17.928	19.507	PASS
B7	20	Mid	21100	2535	16QAM	17.895	19.443	PASS
B7	20	Mid	21100	2535	64QAM	17.935	19.461	PASS



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B7	20	High	21350	2560	QPSK	17.913	19.528	PASS
B7	20	High	21350	2560	16QAM	17.903	19.503	PASS
B7	20	High	21350	2560	64QAM	17.905	19.470	PASS



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	1.1022	1.2505	PASS
B12	1.4	Low	23017	699.7	16QAM	1.1025	1.2528	PASS
B12	1.4	Low	23017	699.7	64QAM	1.1052	1.2600	PASS
B12	1.4	Mid	23095	707.5	QPSK	1.0979	1.2533	PASS
B12	1.4	Mid	23095	707.5	16QAM	1.1038	1.4322	PASS
B12	1.4	Mid	23095	707.5	64QAM	1.1047	1.2510	PASS
B12	1.4	High	23173	715.3	QPSK	1.1005	1.2549	PASS
B12	1.4	High	23173	715.3	16QAM	1.1024	1.2519	PASS
B12	1.4	High	23173	715.3	64QAM	1.1038	1.2487	PASS
B12	3	Low	23025	700.5	QPSK	2.7305	2.9899	PASS
B12	3	Low	23025	700.5	16QAM	2.7234	3.0443	PASS
B12	3	Low	23025	700.5	64QAM	2.7085	2.9668	PASS
B12	3	Mid	23095	707.5	QPSK	2.7183	3.0563	PASS
B12	3	Mid	23095	707.5	16QAM	2.7222	3.0482	PASS
B12	3	Mid	23095	707.5	64QAM	2.7092	3.0352	PASS
B12	3	High	23165	714.5	QPSK	2.7194	3.0660	PASS
B12	3	High	23165	714.5	16QAM	2.7151	3.0565	PASS
B12	3	High	23165	714.5	64QAM	2.7107	3.0496	PASS
B12	5	Low	23035	701.5	QPSK	4.4729	4.8550	PASS
B12	5	Low	23035	701.5	16QAM	4.4642	4.9193	PASS
B12	5	Low	23035	701.5	64QAM	4.4831	4.8840	PASS
B12	5	Mid	23095	707.5	QPSK	4.4707	4.8820	PASS
B12	5	Mid	23095	707.5	16QAM	4.4755	4.9301	PASS
B12	5	Mid	23095	707.5	64QAM	4.4798	4.8873	PASS
B12	5	High	23155	713.5	QPSK	4.4746	4.8891	PASS
B12	5	High	23155	713.5	16QAM	4.4700	4.8754	PASS
B12	5	High	23155	713.5	64QAM	4.4703	4.8836	PASS
B12	10	Low	23060	704	QPSK	8.9540	9.7205	PASS
B12	10	Low	23060	704	16QAM	8.9338	9.6796	PASS
B12	10	Low	23060	704	64QAM	8.9605	9.7488	PASS
B12	10	Mid	23095	707.5	QPSK	8.9547	9.6932	PASS
B12	10	Mid	23095	707.5	16QAM	8.9255	9.7058	PASS
B12	10	Mid	23095	707.5	64QAM	8.9532	9.7165	PASS
B12	10	High	23130	711	QPSK	8.9526	9.6330	PASS
B12	10	High	23130	711	16QAM	8.9369	9.7746	PASS



B12	10	High	23130	711	64QAM	8.9676	9.7955	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	4.4713	4.8834	PASS
B13	5	Low	23205	779.5	16QAM	4.4635	4.8646	PASS
B13	5	Low	23205	779.5	64QAM	4.4812	4.9154	PASS
B13	5	Mid	23230	782	QPSK	4.4780	4.8802	PASS
B13	5	Mid	23230	782	16QAM	4.4779	4.9097	PASS
B13	5	Mid	23230	782	64QAM	4.4751	4.9104	PASS
B13	5	High	23255	784.5	QPSK	4.4734	4.8894	PASS
B13	5	High	23255	784.5	16QAM	4.4672	4.8786	PASS
B13	5	High	23255	784.5	64QAM	4.4804	4.9040	PASS
B13	10	Mid	23230	782	QPSK	8.9593	9.7910	PASS
B13	10	Mid	23230	782	16QAM	8.9380	9.6691	PASS
B13	10	Mid	23230	782	64QAM	8.9489	9.7748	PASS



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B17	5	Low	23755	706.5	QPSK	4.4718	4.8645	PASS
B17	5	Low	23755	706.5	16QAM	4.4774	4.9189	PASS
B17	5	Low	23755	706.5	64QAM	4.4767	4.8853	PASS
B17	5	Mid	23790	710	QPSK	4.4727	4.9024	PASS
B17	5	Mid	23790	710	16QAM	4.4724	4.8753	PASS
B17	5	Mid	23790	710	64QAM	4.4767	4.8834	PASS
B17	5	High	23825	713.5	QPSK	4.4711	4.8875	PASS
B17	5	High	23825	713.5	16QAM	4.4705	4.8660	PASS
B17	5	High	23825	713.5	64QAM	4.4772	4.8843	PASS
B17	10	Low	23780	709	QPSK	8.9523	9.7925	PASS
B17	10	Low	23780	709	16QAM	8.9368	9.6871	PASS
B17	10	Low	23780	709	64QAM	8.9507	9.8072	PASS
B17	10	Mid	23790	710	QPSK	8.9459	9.7071	PASS
B17	10	Mid	23790	710	16QAM	8.9419	9.7648	PASS
B17	10	Mid	23790	710	64QAM	8.9588	9.7874	PASS
B17	10	High	23800	711	QPSK	8.9590	9.8145	PASS
B17	10	High	23800	711	16QAM	8.9303	9.6539	PASS
B17	10	High	23800	711	64QAM	8.9715	9.7913	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	4.4729	4.9659	PASS
B38	5	Low	37775	2572.5	16QAM	4.4694	4.9055	PASS
B38	5	Low	37775	2572.5	64QAM	4.4784	4.8584	PASS
B38	5	Mid	38000	2595	QPSK	4.4748	4.9424	PASS
B38	5	Mid	38000	2595	16QAM	4.4673	4.8592	PASS
B38	5	Mid	38000	2595	64QAM	4.4800	4.8942	PASS
B38	5	High	38225	2617.5	QPSK	4.4737	4.9263	PASS
B38	5	High	38225	2617.5	16QAM	4.4664	4.9058	PASS
B38	5	High	38225	2617.5	64QAM	4.4796	4.8614	PASS
B38	10	Low	37800	2575	QPSK	8.9406	9.6824	PASS
B38	10	Low	37800	2575	16QAM	8.9380	9.6665	PASS
B38	10	Low	37800	2575	64QAM	8.9623	9.8154	PASS
B38	10	Mid	38000	2595	QPSK	8.9517	9.7434	PASS
B38	10	Mid	38000	2595	16QAM	8.9387	9.6599	PASS
B38	10	Mid	38000	2595	64QAM	8.9469	9.9538	PASS
B38	10	High	38200	2615	QPSK	8.9399	9.6954	PASS
B38	10	High	38200	2615	16QAM	8.9381	9.6525	PASS
B38	10	High	38200	2615	64QAM	8.9479	9.7470	PASS
B38	15	Low	37825	2577.5	QPSK	13.399	14.573	PASS
B38	15	Low	37825	2577.5	16QAM	13.430	14.450	PASS
B38	15	Low	37825	2577.5	64QAM	13.417	14.624	PASS
B38	15	Mid	38000	2595	QPSK	13.424	14.513	PASS
B38	15	Mid	38000	2595	16QAM	13.417	14.892	PASS
B38	15	Mid	38000	2595	64QAM	13.423	14.703	PASS
B38	15	High	38175	2612.5	QPSK	13.379	14.625	PASS
B38	15	High	38175	2612.5	16QAM	13.420	14.656	PASS
B38	15	High	38175	2612.5	64QAM	13.417	14.652	PASS
B38	20	Low	37850	2580	QPSK	17.893	19.498	PASS
B38	20	Low	37850	2580	16QAM	17.881	19.390	PASS
B38	20	Low	37850	2580	64QAM	17.914	19.242	PASS
B38	20	Mid	38000	2595	QPSK	17.894	19.466	PASS
B38	20	Mid	38000	2595	16QAM	17.882	19.270	PASS
B38	20	Mid	38000	2595	64QAM	17.915	19.362	PASS
B38	20	High	38150	2610	QPSK	17.892	19.877	PASS
B38	20	High	38150	2610	16QAM	17.895	19.350	PASS



B38	20	High	38150	2610	64QAM	17.915	19.283	PASS
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LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B40-1	5	Low	38725	2307.5	QPSK	4.4803	4.8809	PASS
B40-1	5	Low	38725	2307.5	16QAM	4.4750	4.9257	PASS
B40-1	5	Low	38725	2307.5	64QAM	4.4773	4.8539	PASS
B40-1	5	Mid	38750	2310	QPSK	4.4662	4.8696	PASS
B40-1	5	Mid	38750	2310	16QAM	4.4666	4.8930	PASS
B40-1	5	Mid	38750	2310	64QAM	4.4794	4.8458	PASS
B40-1	5	High	38775	2312.5	QPSK	4.4689	4.8252	PASS
B40-1	5	High	38775	2312.5	16QAM	4.4720	4.8642	PASS
B40-1	5	High	38775	2312.5	64QAM	4.4744	4.8394	PASS
B40-1	10	Mid	38750	2310	QPSK	8.9370	9.6823	PASS
B40-1	10	Mid	38750	2310	16QAM	8.9320	9.6700	PASS
B40-1	10	Mid	38750	2310	64QAM	8.9569	9.6690	PASS

LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B40-2	5	Low	39175	2352.5	QPSK	4.4732	4.8651	PASS
B40-2	5	Low	39175	2352.5	16QAM	4.4644	4.8928	PASS
B40-2	5	Low	39175	2352.5	64QAM	4.4797	4.8793	PASS
B40-2	5	Mid	39200	2355	QPSK	4.4745	4.8788	PASS
B40-2	5	Mid	39200	2355	16QAM	4.4701	4.8593	PASS
B40-2	5	Mid	39200	2355	64QAM	4.4744	4.8460	PASS
B40-2	5	High	39225	2357.5	QPSK	4.4718	4.8514	PASS
B40-2	5	High	39225	2357.5	16QAM	4.4712	4.8939	PASS
B40-2	5	High	39225	2357.5	64QAM	4.4850	4.8703	PASS
B40-2	10	Mid	39200	2355	QPSK	8.9496	9.6837	PASS
B40-2	10	Mid	39200	2355	16QAM	8.9386	9.6546	PASS
B40-2	10	Mid	39200	2355	64QAM	8.9615	9.7348	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	1.0966	1.2498	PASS
B66	1.4	Low	131979	1710.7	16QAM	1.1026	1.2452	PASS
B66	1.4	Low	131979	1710.7	64QAM	1.1043	1.2450	PASS
B66	1.4	Mid	132322	1745	QPSK	1.0980	1.2504	PASS
B66	1.4	Mid	132322	1745	16QAM	1.1020	1.2565	PASS
B66	1.4	Mid	132322	1745	64QAM	1.1048	1.2521	PASS
B66	1.4	High	132665	1779.3	QPSK	1.0977	1.2524	PASS
B66	1.4	High	132665	1779.3	16QAM	1.0982	1.2513	PASS
B66	1.4	High	132665	1779.3	64QAM	1.0994	1.2543	PASS
B66	3	Low	131987	1711.5	QPSK	2.7241	3.0426	PASS
B66	3	Low	131987	1711.5	16QAM	2.7193	3.0652	PASS
B66	3	Low	131987	1711.5	64QAM	2.7124	3.0439	PASS
B66	3	Mid	132322	1745	QPSK	2.7157	3.0501	PASS
B66	3	Mid	132322	1745	16QAM	2.7184	3.0667	PASS
B66	3	Mid	132322	1745	64QAM	2.7162	3.0440	PASS
B66	3	High	132657	1778.5	QPSK	2.7112	3.0502	PASS
B66	3	High	132657	1778.5	16QAM	2.7090	3.0569	PASS
B66	3	High	132657	1778.5	64QAM	2.7089	3.0514	PASS
B66	5	Low	131997	1712.5	QPSK	4.4790	4.8897	PASS
B66	5	Low	131997	1712.5	16QAM	4.4792	4.9386	PASS
B66	5	Low	131997	1712.5	64QAM	4.4833	4.8969	PASS
B66	5	Mid	132322	1745	QPSK	4.4751	4.8652	PASS
B66	5	Mid	132322	1745	16QAM	4.4747	4.9313	PASS
B66	5	Mid	132322	1745	64QAM	4.4815	4.8911	PASS
B66	5	High	132647	1777.5	QPSK	4.4623	4.7200	PASS
B66	5	High	132647	1777.5	16QAM	4.4747	4.9048	PASS
B66	5	High	132647	1777.5	64QAM	4.4792	4.8759	PASS
B66	10	Low	132022	1715	QPSK	8.9689	9.8241	PASS
B66	10	Low	132022	1715	16QAM	8.9244	9.5987	PASS
B66	10	Low	132022	1715	64QAM	8.9536	9.8110	PASS
B66	10	Mid	132322	1745	QPSK	8.9669	9.7425	PASS
B66	10	Mid	132322	1745	16QAM	8.9290	9.7744	PASS
B66	10	Mid	132322	1745	64QAM	8.9674	9.8036	PASS
B66	10	High	132622	1775	QPSK	8.9560	9.7828	PASS
B66	10	High	132622	1775	16QAM	8.9469	9.7116	PASS

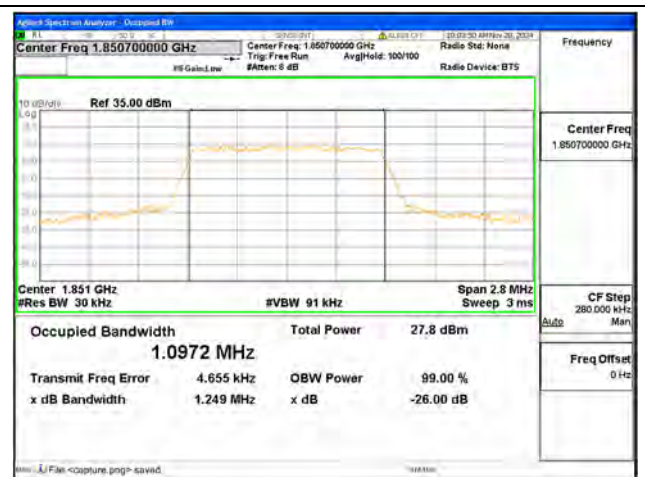


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B66	10	High	132622	1775	64QAM	8.9642	9.7454	PASS
B66	15	Low	132047	1717.5	QPSK	13.427	14.588	PASS
B66	15	Low	132047	1717.5	16QAM	13.428	14.930	PASS
B66	15	Low	132047	1717.5	64QAM	13.388	14.708	PASS
B66	15	Mid	132322	1745	QPSK	13.462	14.624	PASS
B66	15	Mid	132322	1745	16QAM	13.424	14.849	PASS
B66	15	Mid	132322	1745	64QAM	13.414	14.702	PASS
B66	15	High	132597	1772.5	QPSK	13.415	14.646	PASS
B66	15	High	132597	1772.5	16QAM	13.436	14.766	PASS
B66	15	High	132597	1772.5	64QAM	13.429	14.617	PASS
B66	20	Low	132072	1720	QPSK	17.784	18.418	PASS
B66	20	Low	132072	1720	16QAM	17.894	19.416	PASS
B66	20	Low	132072	1720	64QAM	17.900	19.369	PASS
B66	20	Mid	132322	1745	QPSK	17.913	19.577	PASS
B66	20	Mid	132322	1745	16QAM	17.916	19.546	PASS
B66	20	Mid	132322	1745	64QAM	17.913	19.405	PASS
B66	20	High	132572	1770	QPSK	17.826	18.476	PASS
B66	20	High	132572	1770	16QAM	17.911	19.639	PASS
B66	20	High	132572	1770	64QAM	17.923	19.469	PASS



B2 / 1.4MHz / QPSK/ Low CH



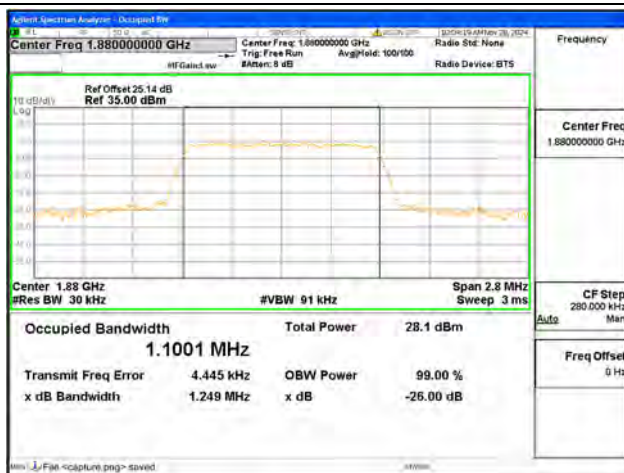
B2 / 1.4MHz / 16QAM/ Low CH



B2 / 1.4MHz / 64QAM/ Low CH



B2 / 1.4MHz / QPSK/ Mid CH



B2 / 1.4MHz / 16QAM/ Mid CH



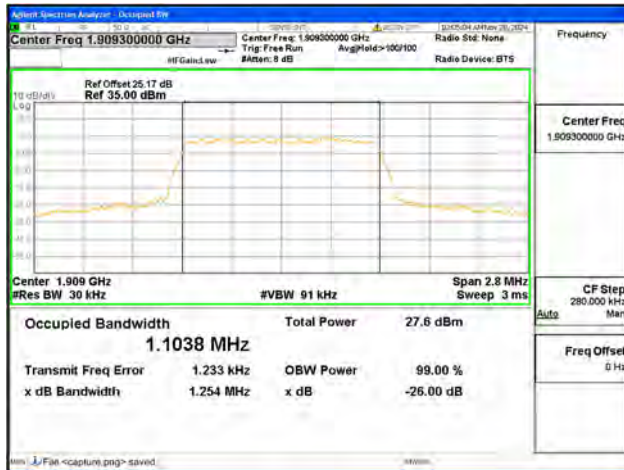
B2 / 1.4MHz / 64QAM/ Mid CH



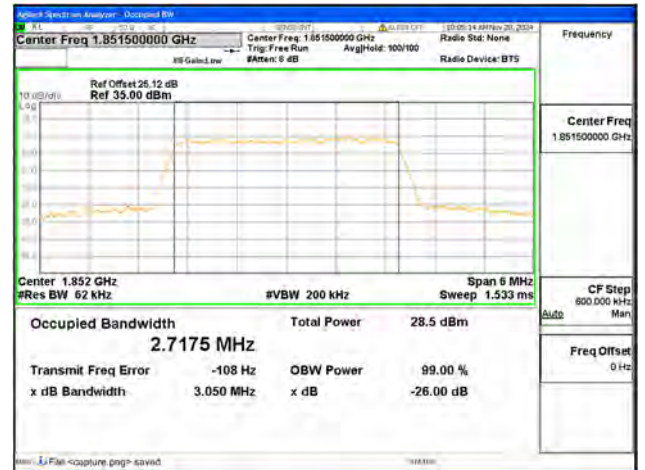
B2 / 1.4MHz / QPSK/ High CH



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



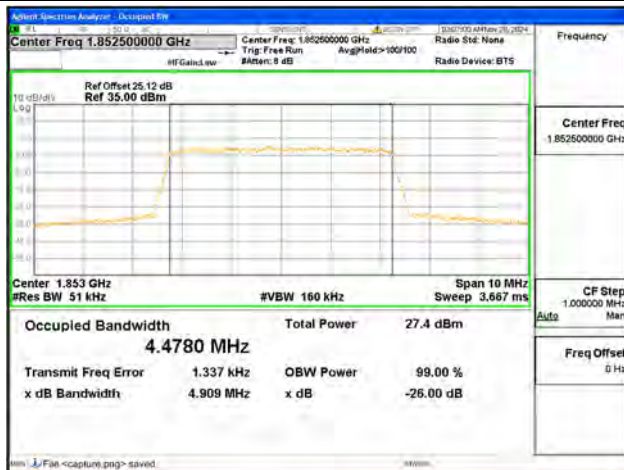
B2 / 3MHz / 64QAM/ High CH



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



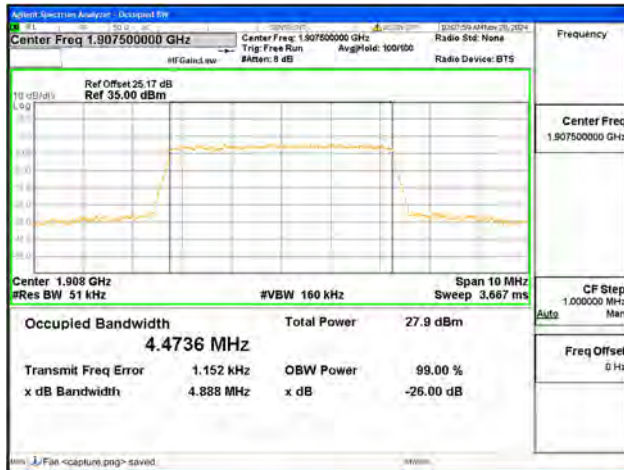
B2 / 5MHz / 64QAM/ Mid CH



B2 / 5MHz / QPSK/ High CH



B2 / 5MHz / 16QAM/ High CH



B2 / 5MHz / 64QAM/ High CH



B2 / 10MHz / QPSK/ Low CH



B2 / 10MHz / 16QAM/ Low CH



B2 / 10MHz / 64QAM/ 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



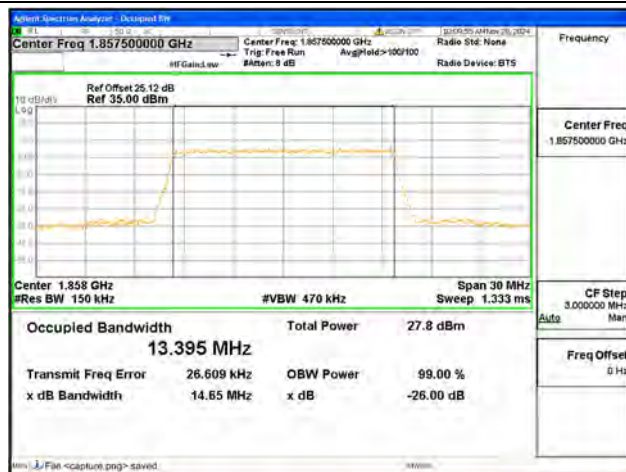
B2 / 10MHz / 64QAM/ High CH



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



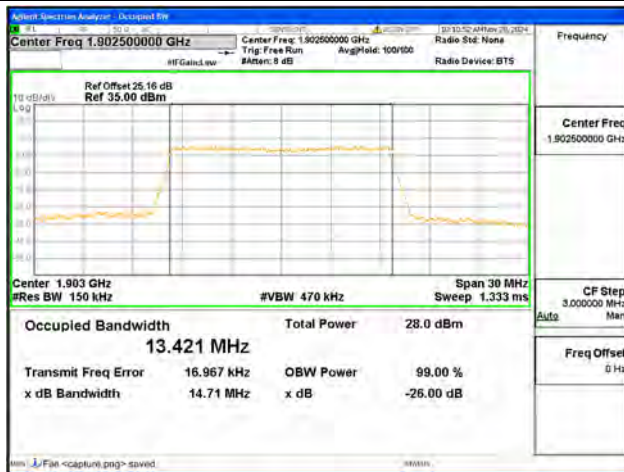
B2 / 15MHz / 64QAM/ Mid CH



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



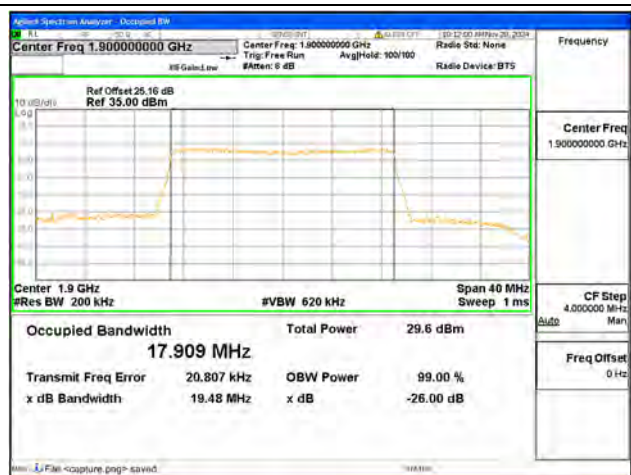
B2 / 20MHz / QPSK/ Mid CH



B2 / 20MHz / 16QAM/ Mid CH



B2 / 20MHz / 64QAM/ Mid CH



B2 / 20MHz / QPSK/ High CH



B2 / 20MHz / 16QAM/ High CH



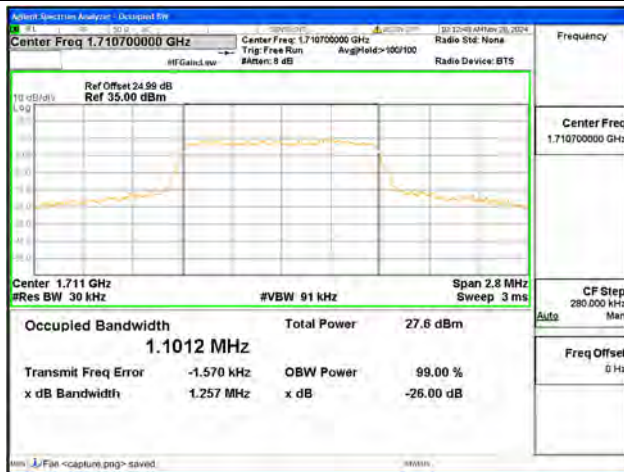
B2 / 20MHz / 64QAM/ High CH



B4 / 1.4MHz / QPSK/ Low CH



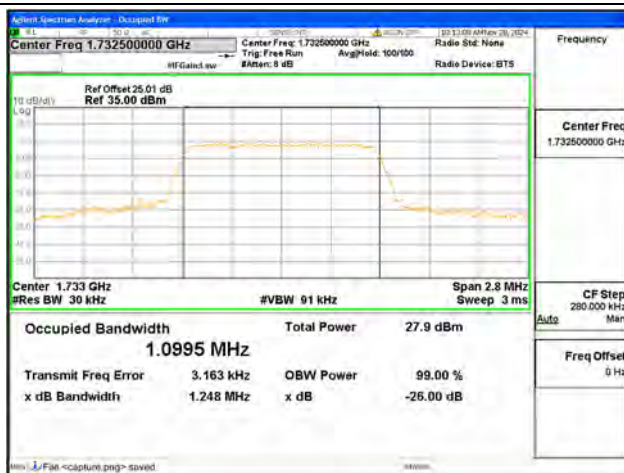
B4 / 1.4MHz / 16QAM/ Low CH



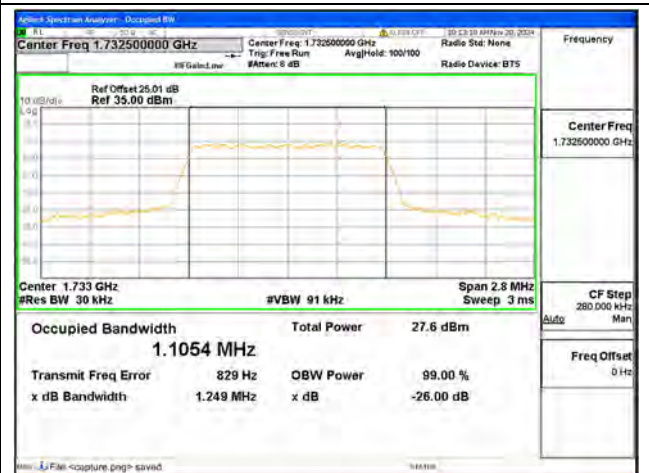
B4 / 1.4MHz / 64QAM/ Low CH



B4 / 1.4MHz / QPSK/ Mid CH



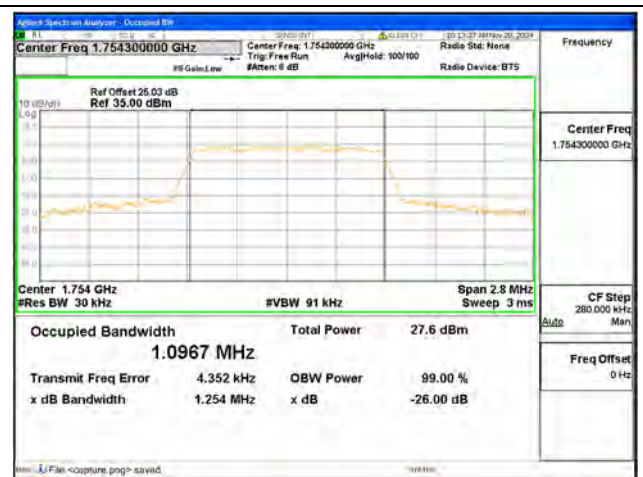
B4 / 1.4MHz / 16QAM/ Mid CH



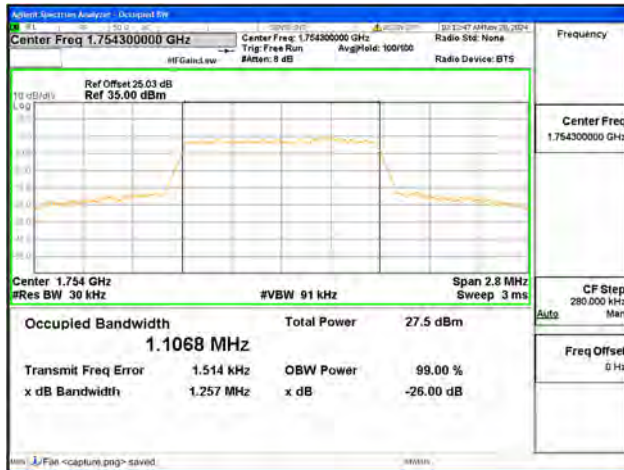
B4 / 1.4MHz / 64QAM/ Mid CH



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



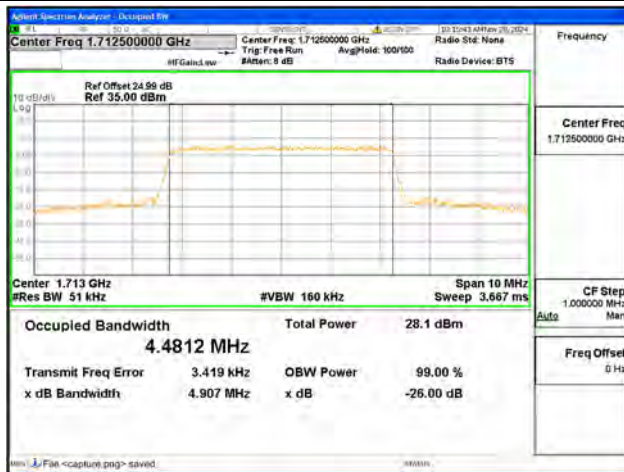
B4 / 3MHz / 64QAM/ High CH



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



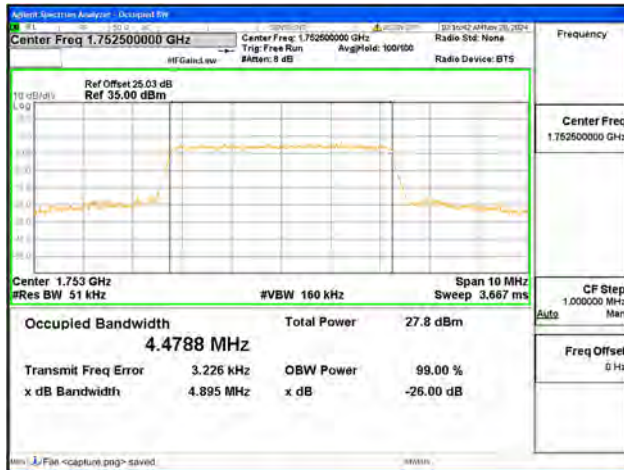
B4 / 5MHz / 64QAM/ Mid CH



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



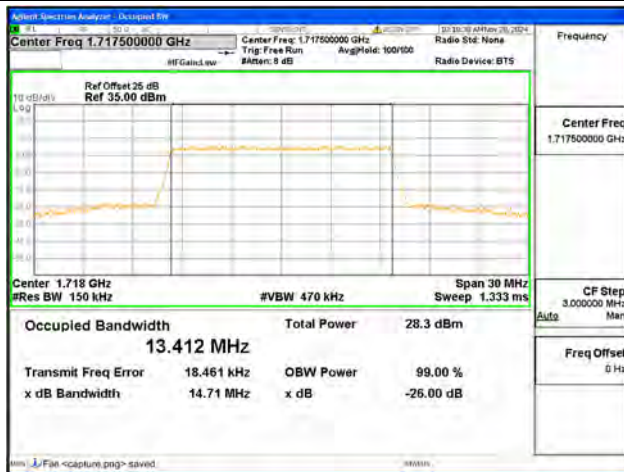
B4 / 10MHz / 64QAM/ High CH



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/ 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 / 16QAM/ High CH



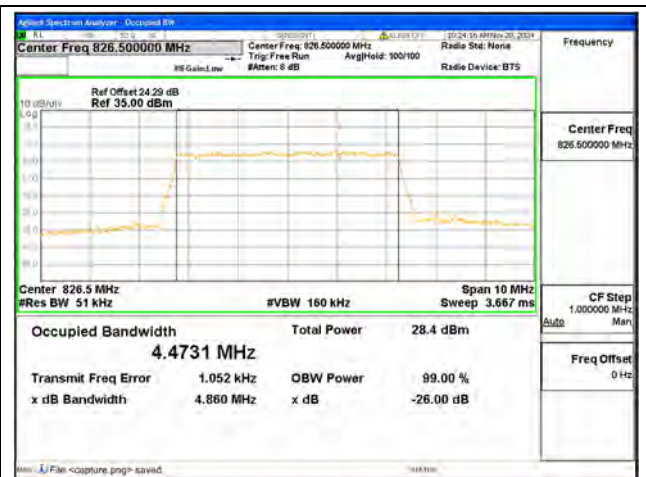
B5 / 3MHz / 64QAM/ High CH



B5 / 3MHz / QPSK/ High CH



B5 / 5MHz / QPSK/ Low CH



B5 / 5MHz / 16QAM/ Low CH



B5 / 5MHz / 64QAM/ Low CH



B5 / 5MHz / QPSK/ Mid CH



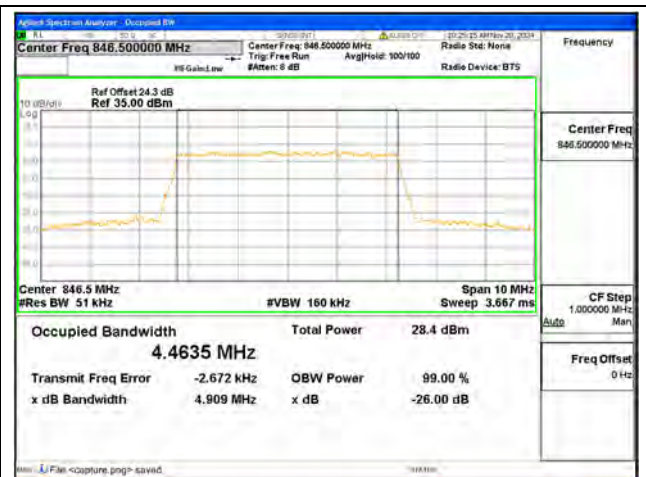
B5 / 5MHz / 16QAM/ Mid CH



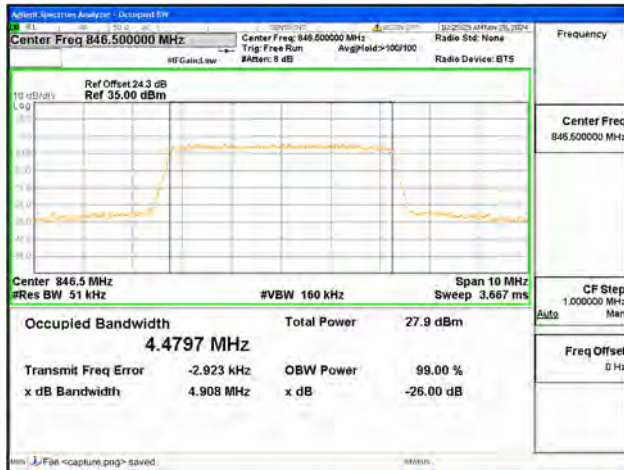
B5 / 5MHz / 64QAM/ Mid CH



B5 / 5MHz / QPSK/ High CH



B5 / 5MHz / 16QAM/ High CH



B5 / 5MHz / 64QAM/ High CH



B5 / 10MHz / QPSK/ Low CH



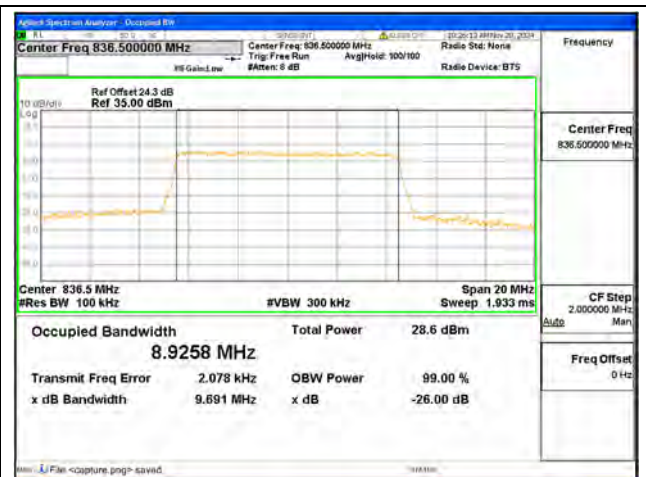
B5 / 10MHz / 16QAM/ Low CH



B5 / 10MHz / 64QAM/ Low CH



B5 / 10MHz / QPSK/ Mid CH



B5 / 10MHz / 16QAM/ Mid CH



B5 / 10MHz / 64QAM/ Mid CH



B5 / 10MHz / QPSK/ High CH



B5 / 10MHz / 16QAM/ High CH



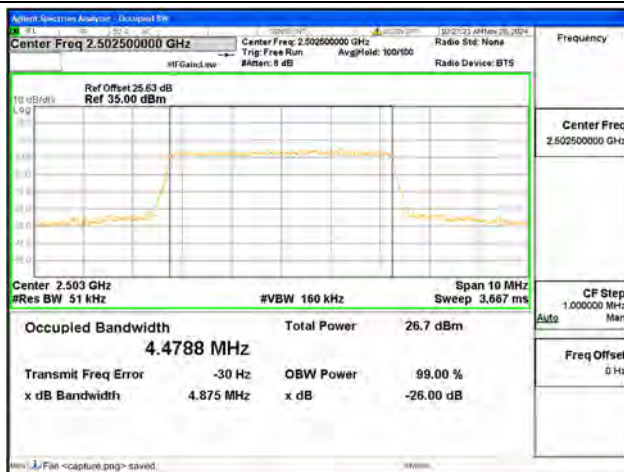
B5 / 10MHz / 64QAM/ High CH



B7 / 5MHz / QPSK/ Low CH



B7 / 5MHz / 16QAM/ Low CH



B7 / 5MHz / 64QAM/ Low CH



B7 / 5MHz / QPSK/ Mid CH



B7 / 5MHz / 16QAM/ Mid CH



B7 / 5MHz / 64QAM/ Mid CH



B7 / 5MHz / QPSK/ High CH



B7 / 5MHz / 16QAM/ High CH



B7 / 5MHz / 64QAM/ High CH



B7 / 10MHz / QPSK/ Low CH



B7 / 10MHz / 16QAM/ Low CH



B7 / 10MHz / 64QAM/ Low CH



B7 / 10MHz / QPSK/ Mid CH



B7 / 10MHz / 16QAM/ Mid CH



B7 / 10MHz / 64QAM/ Mid CH



B7 / 10MHz / QPSK/ High CH



B7 / 10MHz / 16QAM/ High CH



B7 / 10MHz / 64QAM/ High CH



B7 / 15MHz / QPSK/ Low CH



B7 / 15MHz / 16QAM/ Low CH



B7 / 15MHz / 64QAM/ Low CH



B7 / 15MHz / QPSK/ Mid CH



B7 / 15MHz / 16QAM/ Mid CH



B7 / 15MHz / 64QAM/ Mid CH



B7 / 15MHz / QPSK/ High CH



B7 / 15MHz / 16QAM/ High CH



B7 / 15MHz / 64QAM/ High CH



B7 / 20MHz / QPSK/ Low CH



B7 / 20MHz / 16QAM/ Low CH



B7 / 20MHz / 64QAM/ Low CH



B7 / 20MHz / QPSK/ Mid CH



B7 / 20MHz / 16QAM/ Mid CH



B7 / 20MHz / 64QAM/ Mid CH



B7 / 20MHz / QPSK/ High CH



B7 / 20MHz / 16QAM/ High CH



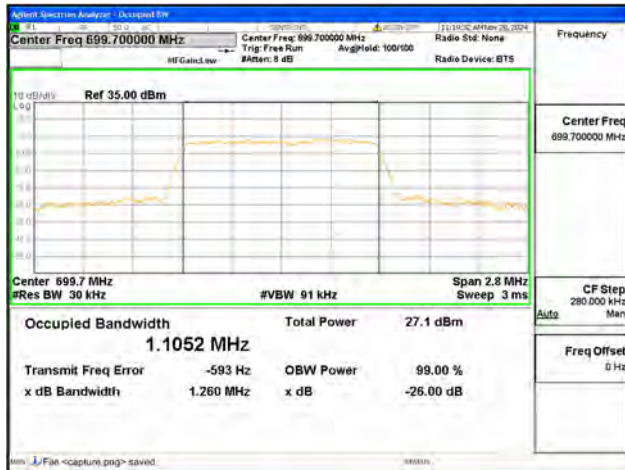
B7 / 20MHz / 64QAM/ High CH



B12 / 1.4MHz / QPSK/ Low CH



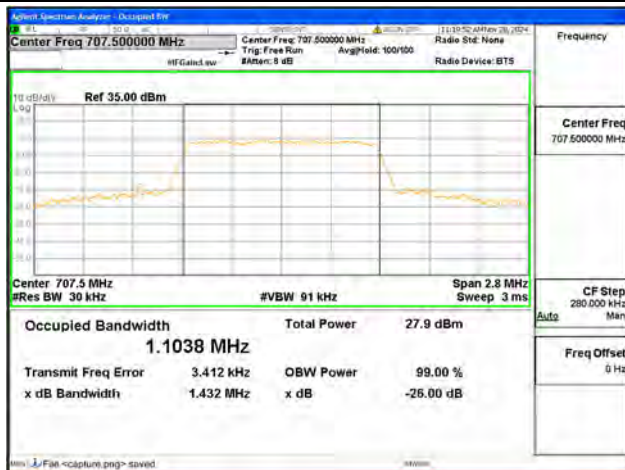
B12 / 1.4MHz / 16QAM/ Low CH



B12 / 1.4MHz / 64QAM/ Low CH



B12 / 1.4MHz / QPSK/ Mid CH



B12 / 1.4MHz / 16QAM/ Mid CH



B12 / 1.4MHz / 64QAM/ Mid CH





B12 / 3MHz / QPSK/ Mid CH



B12 / 3MHz / 16QAM/ Mid CH



B12 / 3MHz / 64QAM/ Mid CH



B12 / 3MHz / QPSK/ High CH



B12 / 3MHz / 16QAM/ High CH



B12 / 3MHz / 64QAM/ High CH



B12 / 5MHz / QPSK/ Low CH



B12 / 5MHz / 16QAM/ Low CH



B12 / 5MHz / 64QAM/ Low CH



B12 / 5MHz / QPSK/ Mid CH



B12 / 5MHz / 16QAM/ Mid CH



B12 / 5MHz / 64QAM/ Mid CH



B12 / 5MHz / QPSK/ High CH



B12 / 5MHz / 16QAM/ High CH



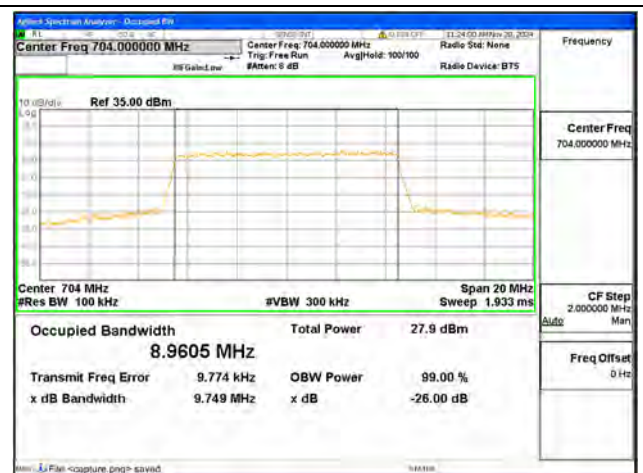
B12 / 5MHz / 64QAM/ High CH



B12 / 10MHz / QPSK/ Low CH



B12 / 10MHz / 16QAM/ Low CH



B12 / 10MHz / 64QAM/ Low CH



B12 / 10MHz / QPSK/ Mid CH



B12 / 10MHz / 16QAM/ Mid CH



B12 / 10MHz / 64QAM/ Mid CH



B12 / 10MHz / QPSK/ High CH



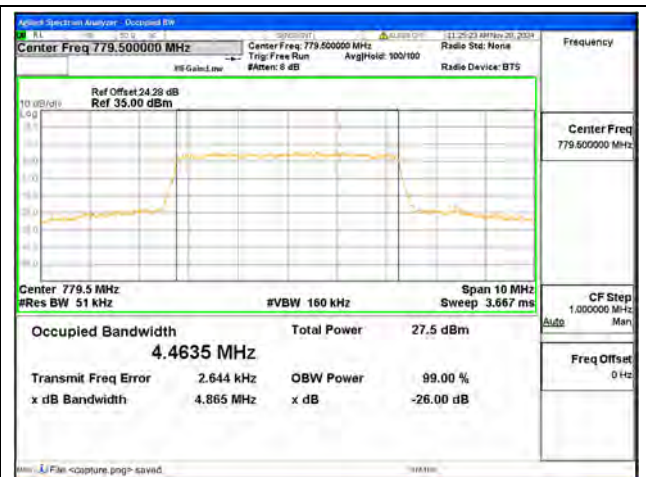
B12 / 10MHz / 16QAM/ High CH



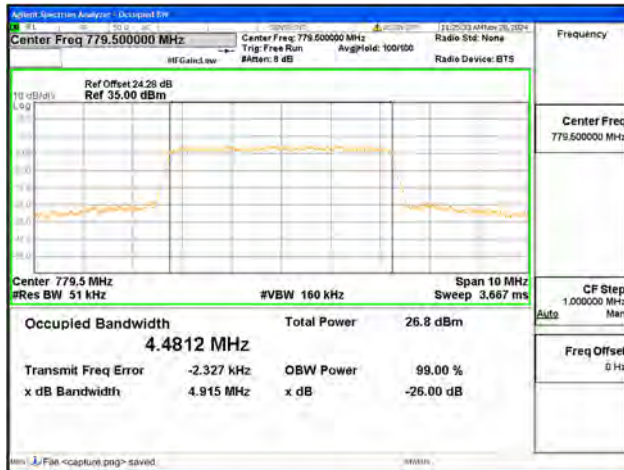
B12 / 10MHz / 64QAM/ High CH



B13 / 5MHz / QPSK/ Low CH



B13 / 5MHz / 16QAM/ Low CH



B13 / 5MHz / 64QAM/ Low CH



B13 / 5MHz / QPSK/ Mid CH



B13 / 5MHz / 16QAM/ Mid CH



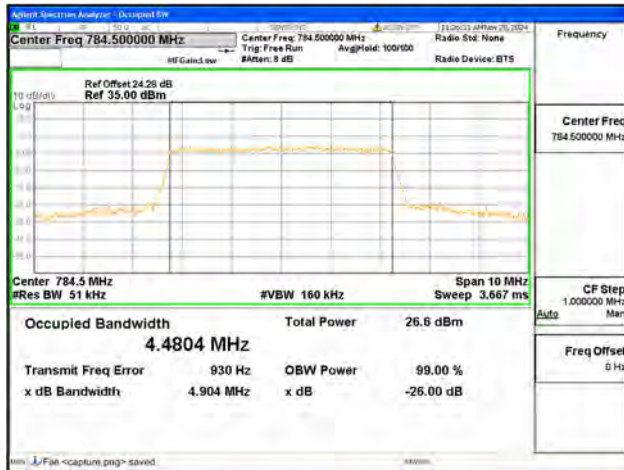
B13 / 5MHz / 64QAM/ Mid CH



B13 / 5MHz / QPSK/ High CH



B13 / 5MHz / 16QAM/ High CH



B13 / 5MHz / 64QAM/ High CH



B13 / 10MHz / QPSK/ Mid CH



B13 / 10MHz / 16QAM/ Mid CH



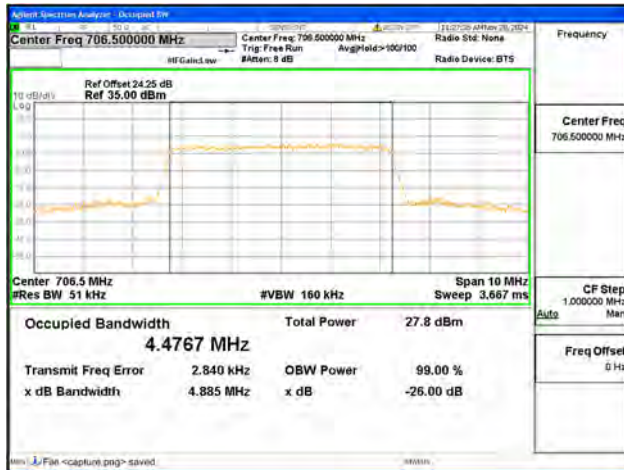
B13 / 10MHz / 64QAM/ Mid CH



B17 / 5MHz / QPSK/ Low CH



B17 / 5MHz / 16QAM/ Low CH



B17 / 5MHz / 64QAM/ Low CH



B17 / 5MHz / QPSK/ Mid CH



B17 / 5MHz / 16QAM/ Mid CH



B17 / 5MHz / 64QAM/ Mid CH



B17 / 5MHz / QPSK/ High CH



B17 / 5MHz / 16QAM/ High CH



B17 / 5MHz / 64QAM/ High CH



B17 / 10MHz / QPSK/ Low CH



B17 / 10MHz / 16QAM/ Low CH



B17 / 10MHz / 64QAM/ Low CH



B17 / 10MHz / QPSK/ Mid CH



B17 / 10MHz / 16QAM/ Mid CH



B17 / 10MHz / 64QAM/ Mid CH



B17 / 10MHz / QPSK/ High CH



B17 / 10MHz / 16QAM/ High CH



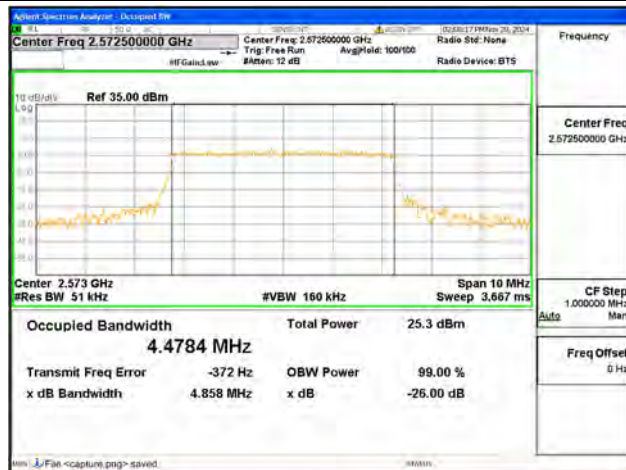
B17 / 10MHz / 64QAM/ High CH



B38 / 5MHz / QPSK/ Low CH



B38 / 5MHz / 16QAM/ Low CH



B38 / 5MHz / 64QAM/ Low CH



B38 / 5MHz / QPSK/ Mid CH



B38 / 5MHz / 16QAM/ Mid CH



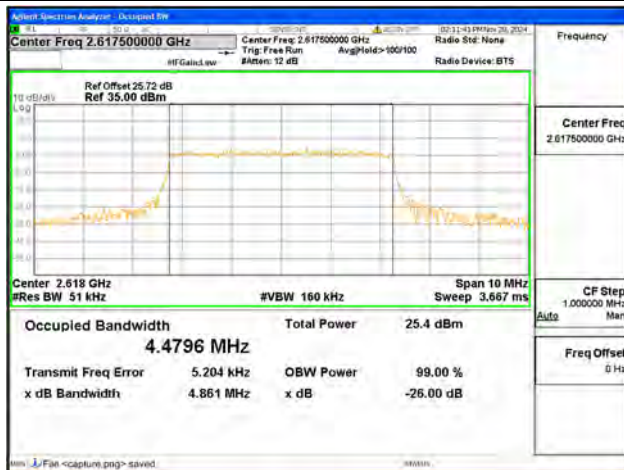
B38 / 5MHz / 64QAM/ Mid CH



B38 / 5MHz / QPSK/ High CH



B38 / 5MHz / 16QAM/ High CH



B38 / 5MHz / 64QAM/ High CH



B38 / 10MHz / QPSK/ Low CH



B38 / 10MHz / 16QAM/ Low CH



B38 / 10MHz / 64QAM/ Low CH



B38 / 10MHz / QPSK/ Mid CH



B38 / 10MHz / 16QAM/ Mid CH



B38 / 10MHz / 64QAM/ Mid CH



B38 / 10MHz / QPSK/ High CH



B38 / 10MHz / 16QAM/ High CH



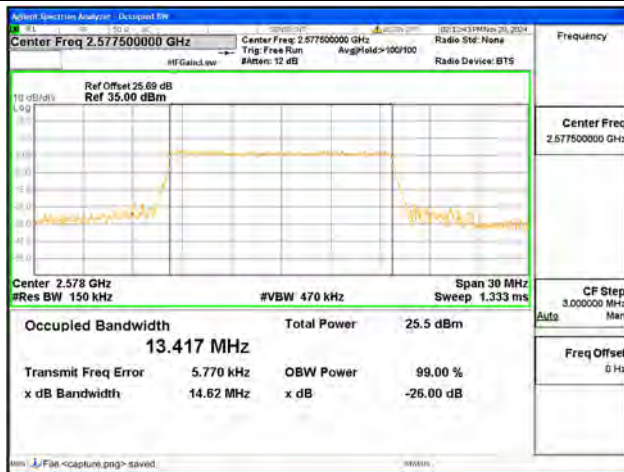
B38 / 10MHz / 64QAM/ High CH



B38 / 15MHz / QPSK/ Low CH



B38 / 15MHz / 16QAM/ Low CH



B38 / 15MHz / 64QAM/ Low CH



B38 / 15MHz / QPSK/ Mid CH



B38 / 15MHz / 16QAM/ Mid CH



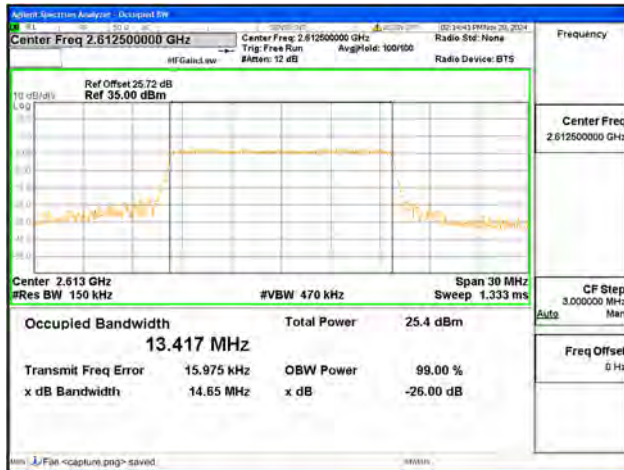
B38 / 15MHz / 64QAM/ Mid CH



B38 / 15MHz / QPSK/ High CH



B38 / 15MHz / 16QAM/ High CH



B38 / 15MHz / 64QAM/ High CH



B38 / 20MHz / QPSK/ Low CH



B38 / 20MHz / 16QAM/ Low CH



B38 / 20MHz / 64QAM/ Low CH



B38 / 20MHz / QPSK/ Mid CH



B38 / 20MHz / 16QAM/ Mid CH



B38 / 20MHz / 64QAM/ Mid CH



B38 / 20MHz / QPSK/ High CH



B38 / 20MHz / 16QAM/ High CH



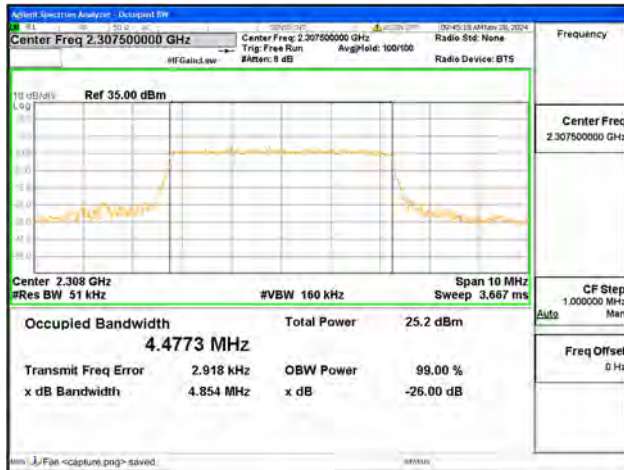
B38 / 20MHz / 64QAM/ High CH



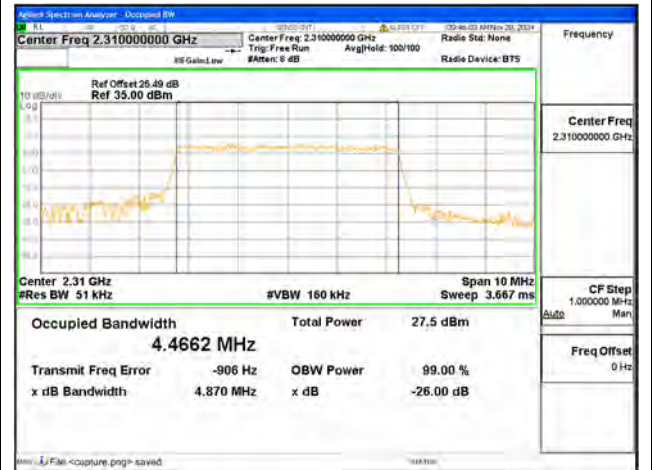
B40-1 / 5MHz / QPSK/ Low CH



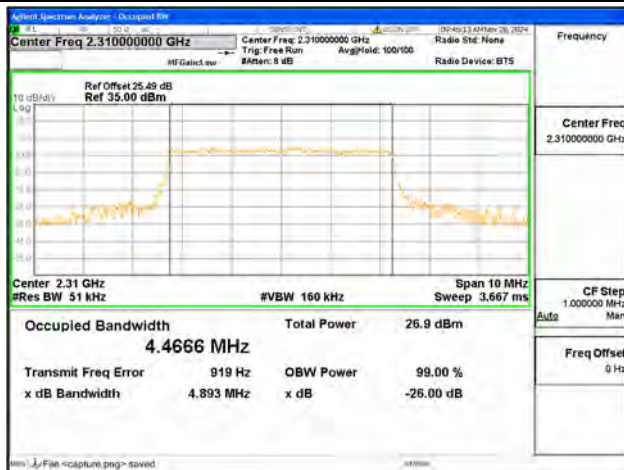
B40-1 / 5MHz / 16QAM/ Low CH



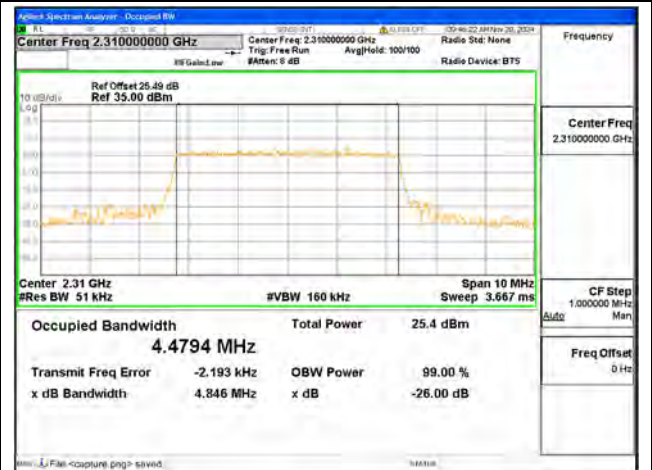
B40-1 / 5MHz / 64QAM/ Low CH



B40-1 / 5MHz / QPSK/ Mid CH



B40-1 / 5MHz / 16QAM/ Mid CH



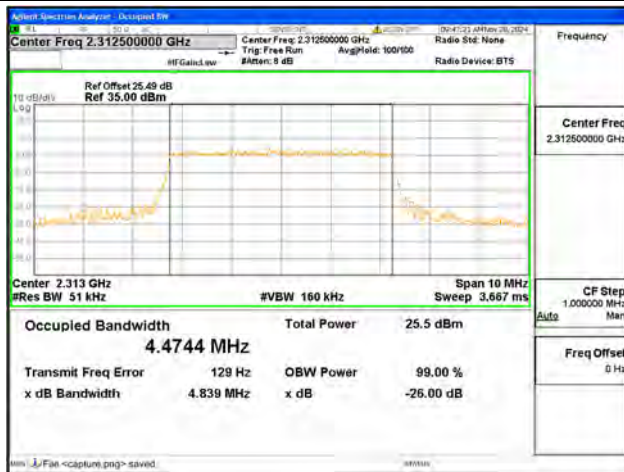
B40-1 / 5MHz / 64QAM/ Mid CH



B40-1 / 5MHz / QPSK/ High CH



B40-1 / 5MHz / 16QAM/ High CH



B40-1 / 5MHz / 64QAM/ High CH



B40-1 / 10MHz / QPSK/ Mid CH



B40-1 / 10MHz / 16QAM/ Mid CH



B40-1 / 10MHz / 64QAM/ Mid CH



B40-2 / 5MHz / QPSK/ Low CH



B40-2 / 5MHz / 16QAM/ Low CH



B40-2 / 5MHz / 64QAM/ Low CH



B40-2 / 5MHz / QPSK/ Mid CH



B40-2 / 5MHz / 16QAM/ Mid CH



B40-2 / 5MHz / 64QAM/ Mid CH



B40-2 / 5MHz / QPSK/ High CH



B40-2 / 5MHz / 16QAM/ High CH



B40-2 / 5MHz / 64QAM/ High CH



B40-2 / 10MHz / QPSK/ Mid CH



B40-2 / 10MHz / 16QAM/ Mid CH



B40-2 / 10MHz / 64QAM/ Mid CH



B66 / 1.4MHz / QPSK/ Low CH



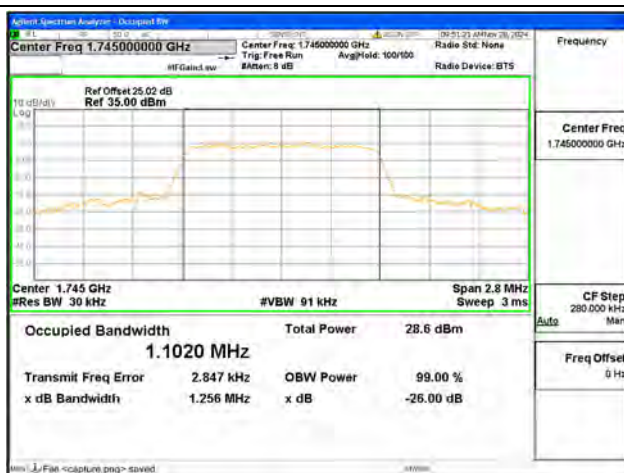
B66 / 1.4MHz / 16QAM/ Low CH



B66 / 1.4MHz / 64QAM/ Low CH



B66 / 1.4MHz / QPSK/ Mid CH



B66 / 1.4MHz / 16QAM/ Mid CH



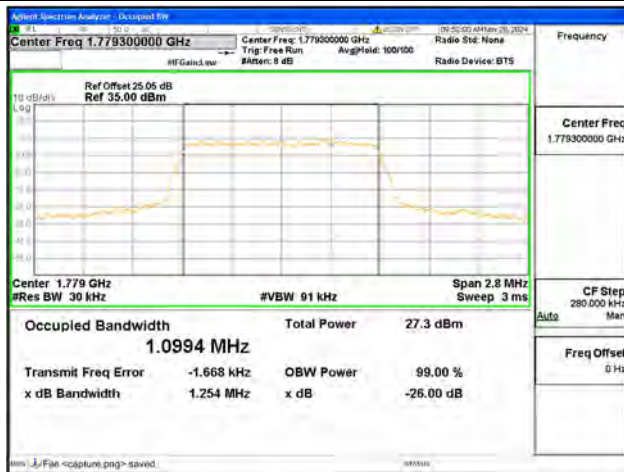
B66 / 1.4MHz / 64QAM/ Mid CH



B66 / 1.4MHz / QPSK/ High CH



B66 / 1.4MHz / 16QAM/ High CH



B66 / 1.4MHz / 64QAM/ High CH



B66 / 3MHz / QPSK/ Low CH



B66 / 3MHz / 16QAM/ Low CH



B66 / 3MHz / 64QAM/ Low CH



B66 / 3MHz / QPSK/ Mid CH



B66 / 3MHz / 16QAM/ Mid CH



B66 / 3MHz / 64QAM/ Mid CH



B66 / 3MHz / QPSK/ High CH



B66 / 3MHz / 16QAM/ High CH



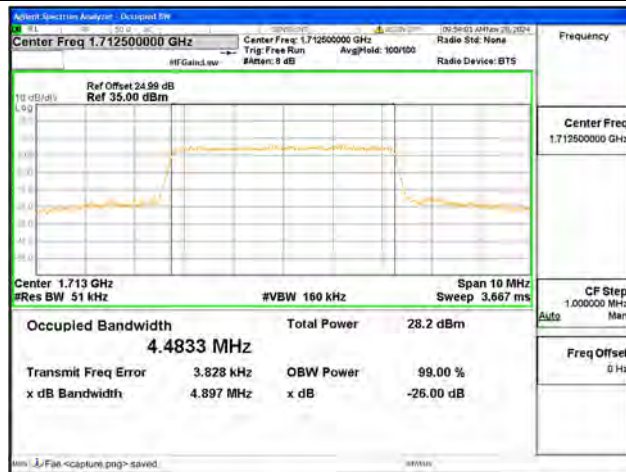
B66 / 3MHz / 64QAM/ High CH



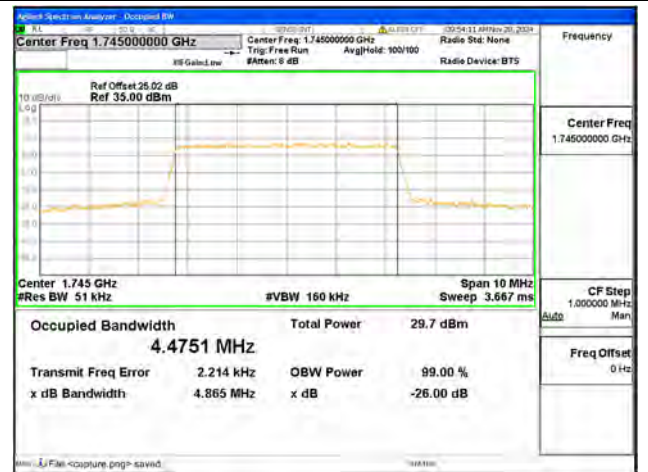
B66 / 5MHz / QPSK/ Low CH



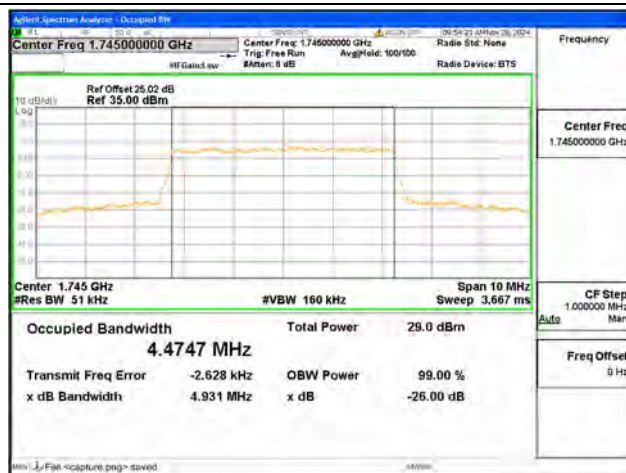
B66 / 5MHz / 16QAM/ Low CH



B66 / 5MHz / 64QAM/ Low CH



B66 / 5MHz / QPSK/ Mid CH



B66 / 5MHz / 16QAM/ Mid CH



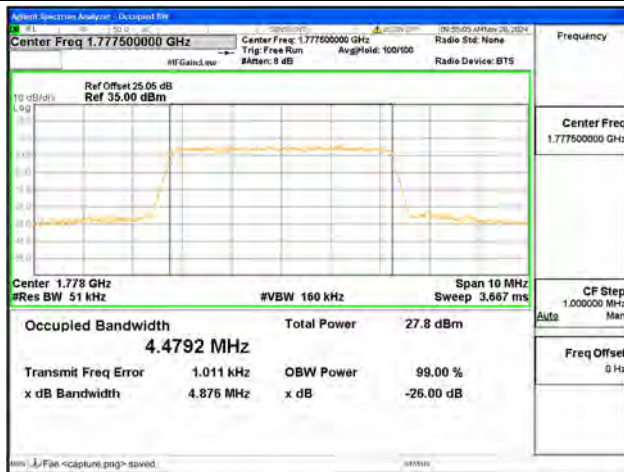
B66 / 5MHz / 64QAM/ Mid CH



B66 / 5MHz / QPSK/ High CH



B66 / 5MHz / 16QAM/ High CH



B66 / 5MHz / 64QAM/ High CH



B66 / 10MHz / QPSK/ Low CH



B66 / 10MHz / 16QAM/ Low CH



B66 / 10MHz / 64QAM/ Low CH



B66 / 10MHz / QPSK/ Mid CH



B66 / 10MHz / 16QAM/ Mid CH



B66 / 10MHz / 64QAM/ Mid CH



B66 / 10MHz / QPSK/ High CH



B66 / 10MHz / 16QAM/ High CH



B66 / 10MHz / 64QAM/ High CH



B66 / 15MHz / QPSK/ Low CH



B66 / 15MHz / 16QAM/ Low CH



B66 / 15MHz / 64QAM/ Low CH



B66 / 15MHz / QPSK/ Mid CH



B66 / 15MHz / 16QAM/ Mid CH



B66 / 15MHz / 64QAM/ Mid CH



B66 / 15MHz / QPSK/ High CH



B66 / 15MHz / 16QAM/ High CH



B66 / 15MHz / 64QAM/ High CH



B66 / 20MHz / QPSK/ Low CH



B66 / 20MHz / 16QAM/ Low CH



B66 / 20MHz / 64QAM/ Low CH



B66 / 20MHz / QPSK/ Mid CH



B66 / 20MHz / 16QAM/ Mid CH



B66 / 20MHz / 64QAM/ Mid CH



B66 / 20MHz / QPSK/ High CH



B66 / 20MHz / 16QAM/ High CH



B66 / 20MHz / 64QAM/ High CH

2.3. Frequency Stability

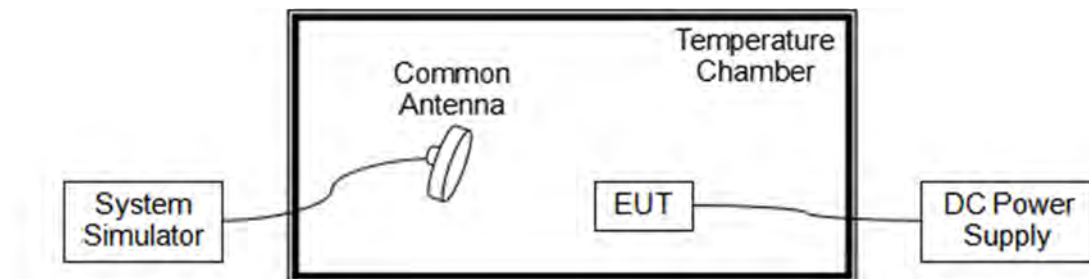
2.3.1. Requirement

According to FCC section 2.1055, 24.235, 27.54, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°C .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

Note: The operating temperature of EUT is from -10°C to 55°C , which are specified by the applicant.

2.3.2. Test Description



The EUT which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power. A call is established between the EUT and the SS via a Common Antenna.

2.3.3. Test Procedure

KDB 971168 D01v03 Section 9.0 and ANSI/TIA-603-E-2016.

**2.3.4. Test Result**

The nominal, highest and lowest extreme voltages are separately 3.85V, 4.40V and 3.40V, which are specified by the applicant; the normal temperature here used is 20°C.

LTE Band 2, 64QAM, Channel 18900, Frequency 1880.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	14	0.007	PASS
Normal		-10	-11	-0.006	
Normal		0	15	0.008	
Normal		+10	14	0.007	
Normal		+20	17	0.009	
Normal		+30	-15	-0.008	
Normal		+40	7	0.004	
Normal		+50	18	0.010	
Normal		+55	13	0.007	
High	4.40	+20	17	0.009	
BATT.ENDPOINT	3.40	+20	-10	-0.005	

LTE Band 4, 64QAM, Channel 20175, Frequency 1732.5MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	17	0.010	PASS
Normal		-10	20	0.012	
Normal		0	15	0.009	
Normal		+10	20	0.012	
Normal		+20	0	0.000	
Normal		+30	13	0.008	
Normal		+40	13	0.008	
Normal		+50	20	0.012	
Normal		+55	-23	-0.013	
High	4.40	+20	-19	-0.011	
BATT.ENDPOINT	3.40	+20	-14	-0.008	



LTE Band 5, 64QAM, Channel 20525, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	18	0.022	PASS
Normal		-10	15	0.018	
Normal		0	19	0.023	
Normal		+10	-21	-0.025	
Normal		+20	19	0.023	
Normal		+30	-5	-0.006	
Normal		+40	14	0.017	
Normal		+50	20	0.024	
Normal		+55	-16	-0.019	
High	4.40	+20	0	0.000	PASS
BATT.ENDPOINT	3.40	+20	18	0.022	

LTE Band 7, 64QAM, Channel 21100, Frequency 2535.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	3	0.001	PASS
Normal		-10	18	0.007	
Normal		0	7	0.003	
Normal		+10	15	0.006	
Normal		+20	19	0.007	
Normal		+30	-6	-0.002	
Normal		+40	20	0.008	
Normal		+50	-1	0.000	
Normal		+55	16	0.006	
High	4.40	+20	18	0.007	PASS
BATT.ENDPOINT	3.40	+20	10	0.004	



LTE Band 12, 64QAM, Channel 23095, Frequency 707.5MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	14	0.020	PASS
Normal		-10	-17	-0.024	
Normal		0	20	0.028	
Normal		+10	-15	-0.021	
Normal		+20	-4	-0.006	
Normal		+30	14	0.020	
Normal		+40	13	0.018	
Normal		+50	11	0.016	
Normal		+55	20	0.028	
High	4.40	+20	18	0.025	
BATT.ENDPOINT	3.40	+20	18	0.025	

LTE Band 13, 64QAM, Channel 23230, Frequency 782MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	14	0.018	PASS
Normal		-10	15	0.019	
Normal		0	14	0.018	
Normal		+10	14	0.018	
Normal		+20	15	0.019	
Normal		+30	-9	-0.012	
Normal		+40	19	0.024	
Normal		+50	-12	-0.015	
Normal		+55	20	0.026	
High	4.40	+20	15	0.019	
BATT.ENDPOINT	3.40	+20	-10	-0.013	



LTE Band 17, 64QAM, Channel 23790, Frequency 710.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	17	0.024	PASS
Normal		-10	4	0.006	
Normal		0	13	0.018	
Normal		+10	15	0.021	
Normal		+20	12	0.017	
Normal		+30	15	0.021	
Normal		+40	20	0.028	
Normal		+50	15	0.021	
Normal		+55	-17	-0.024	
High	4.40	+20	0	0.000	
BATT.ENDPOINT	3.40	+20	15	0.021	

LTE Band 38, 64QAM, Channel 38000, Frequency 2595MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	18	0.007	PASS
Normal		-10	13	0.005	
Normal		0	-1	0.000	
Normal		+10	17	0.007	
Normal		+20	-18	-0.007	
Normal		+30	3	0.001	
Normal		+40	19	0.007	
Normal		+50	18	0.007	
Normal		+55	13	0.005	
High	4.40	+20	11	0.004	
BATT.ENDPOINT	3.40	+20	15	0.006	