



REPORT No.: SZ24060193W05

TEST REPORT

APPLICANT : Reliance Communications, LLC

PRODUCT NAME : Orbic Speed Pro 5G

MODEL NAME : R575L5

BRAND NAME : Orbic

FCC ID : 2ABGH-R575L5

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

RECEIPT DATE : 2024-06-20

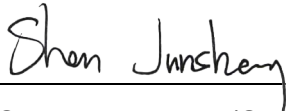
TEST DATE : 2024-06-25 to 2024-08-30

ISSUE DATE : 2025-01-24

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Change History		
Version	Date	Reason for change
1.0	2025-01-24	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Reliance Communications, LLC
Applicant Address:	555 Wireless Blvd. Hauppauge, NY 11788, USA
Manufacturer:	MeiG Smart Technology Co., Ltd
Manufacturer Address:	2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District, Shenzhen

1.2. Equipment Under Test (EUT) Description

Product Name:	Orbic Speed Pro 5G	
Sample No.:	2#	
Hardware Version:	V1.0	
Software Version:	R575L5_v1.0.35_BVZ	
Modulation Type:	QPSK, 16QAM, 64QAM	
Operation Band:	Band 2 / 4 / 5 / 7 / 12 / 13 / 66	
Carrier Aggregation(UL):	13A-66A, 2A-13A, 2A-4A, 2A-5A, 2A-66A, 2A-7A, 48C, 4A-13A, 4A-5A, 5A-66A, 5B, 66B, 66C, 7A-13A, 7A-66A, 7C	
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
Channel Bandwidth:	LTE Band 66	Tx: 1710MHz–1780MHz
		Rx: 2110MHz–2200MHz



	LTE Band 4	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 5	1.4MHz, 3MHz, 5MHz, 10MHz
	LTE Band 7	5 MHz, 10MHz, 15MHz, 20MHz
	LTE Band 12	1.4MHz, 3 MHz, 5 MHz, 10MHz
	LTE Band 13	5 MHz, 10MHz
	LTE Band 66	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
Antenna Type:	PIFA Antenna	
Antenna Gain:	LTE Band 2	ANT0: 1.75dBi; ANT4: 1.72dBi
	LTE Band 4	ANT0: 1.50dBi; ANT4: 1.84dBi
	LTE Band 5	ANT0: 0.86dBi
	LTE Band 7	ANT0: 1.92dBi
	LTE Band 12	ANT0: 0.73dBi
	LTE Band 13	ANT0: 0.80dBi
	LTE Band 66	ANT0: 1.62dBi; ANT4: 1.91dBi
Accessory Information:	Battery	
	Brand Name:	Orbic
	Model No.:	OABA014GL1
	Serial No.:	N/A
	Capacity:	5000mAh
	Rated Voltage:	3.85V
	Charge Limit:	4.4V
	Manufacturer:	Shenzhen Aerospace Electronic Co.,Ltd
	AC Adapter	
	Brand Name:	Orbic
	Model No.:	OACH023US1
	Serial No.:	N/A
	Rated Output:	5V=3A; 9V=2A; 5V=3A; 12V=1.5A
	Rated Input:	100-240V~50/60Hz, 0.5A
	Manufacturer 1:	WATAI ELECTRONICS PRIVATE LIMITED
	Manufacturer 2:	KANGYIN ELECTRONIC TECHNOLOGY CO.,LTD
	USB Cable	
	Model No.:	OAUC023US1
	Manufacturer:	KANGYIN ELECTRONIC TECHNOLOGY CO.,LTD

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



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

LTE Band 2		Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20		0.316	0.275	0.243	17M9G7D	17M9W7D	17M9W7D
15		0.306	0.277	0.251	13M4G7D	13M4W7D	13M4W7D
10		0.311	0.282	0.250	8M97G7D	8M96W7D	8M97W7D
5		0.308	0.281	0.250	4M49G7D	4M49W7D	4M49W7D
3		0.308	0.282	0.254	2M72G7D	2M71W7D	2M71W7D
1.4		0.313	0.279	0.248	1M10G7D	1M11W7D	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		0.328	0.298	0.255	17M9G7D	17M9W7D	17M9W7D
15		0.321	0.289	0.262	13M4G7D	13M4W7D	13M5W7D
10		0.325	0.294	0.264	8M96G7D	8M97W7D	8M96W7D
5		0.324	0.292	0.265	4M49G7D	4M48W7D	4M49W7D
3		0.324	0.295	0.259	2M72G7D	2M72W7D	2M72W7D
1.4		0.324	0.293	0.264	1M10G7D	1M11W7D	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		0.163	0.146	0.118	8M96G7D	8M97W7D	8M96W7D
5		0.160	0.142	0.115	4M49G7D	4M48W7D	4M48W7D
3		0.161	0.142	0.116	2M72G7D	2M73W7D	2M72W7D
1.4		0.160	0.141	0.114	1M10G7D	1M11W7D	1M11W7D
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		0.318	0.274	0.255	17M9G7D	17M9W7D	17M9W7D
15		0.308	0.272	0.248	13M5G7D	13M4W7D	13M4W7D
10		0.310	0.275	0.249	8M96G7D	9M00W7D	8M96W7D
5		0.310	0.276	0.245	4M49G7D	4M49W7D	4M49W7D
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		0.155	0.140	0.125	8M97G7D	8M97W7D	8M97W7D
5		0.151	0.131	0.116	4M48G7D	4M48W7D	4M49W7D
3		0.152	0.132	0.117	2M71G7D	2M72W7D	2M71W7D
1.4		0.150	0.133	0.119	1M10G7D	1M11W7D	1M10W7D
LTE Band 13		Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM



10	0.162	0.142	0.130	8M92G7D	8M94W7D	8M96W7D
5	0.161	0.131	0.116	4M47G7D	4M48W7D	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	0.257	0.225	0.205	17M9G7D	18M0W7D	17M9W7D
15	0.259	0.233	0.210	13M4G7D	13M4W7D	13M5W7D
10	0.258	0.236	0.206	8M96G7D	8M97W7D	8M97W7D
5	0.259	0.232	0.210	4M48G7D	4M48W7D	4M49W7D
3	0.259	0.230	0.209	2M72G7D	2M72W7D	2M72W7D
1.4	0.259	0.229	0.206	1M10G7D	1M11W7D	1M11W7D

1.4. Test Standards and Results

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



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

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

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046 22.913(a)(2) 24.232(c) 27.50(c)(10) 27.50(d)(4) 27.50(h)(2)	Transmitter Conducted Output Power and E.R.P./E.I.R.P.	Jul. 26, 2024	Tan Xiaowei Gan Jing	PASS	No deviation
2.1049	Occupied Bandwidth	Jul. 26, 2024	Gan Jing	PASS	No deviation
2.1055 22.355 24.235 27.54	Frequency Stability	Jul. 26, 2024	Gan Jing	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Jul. 26, 2024	Gan Jing	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(g) 27.53(h) 27.53(m)(4)	Conducted Spurious Emissions	Jul. 26, 2024	Gan Jing	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(g) 27.53(h) 27.53(m)(4)	Band Edge	Jul. 26, 2024	Gan Jing	PASS	No deviation
2.1053 22.917(a)	Radiated Spurious	Aug. 21 to 30, 2024	Li Hanbin	PASS	No deviation



24.238(a) 27.53(g) 27.53(h) 27.53(m)(4)	Emissions	to Jul. 04, 2024			
Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016. Note 2: 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 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.

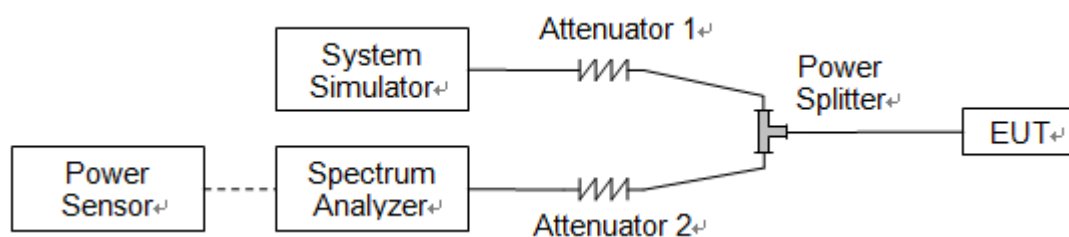
According to FCC section 22.913 (a)(2) for LTE Band 5, the E.R.P. of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 27.50 (h)(2) for LTE Band 7, 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 (c)(10) for LTE Band 12, Portable stations (hand-held devices) operating in the 704-716MHz band are limited to 3watts E.R.P.

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

2.1.2. Test Description



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



2.1.3. Test Procedure

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

E.I.R.P. (dBm) = 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	23.15	23.24	23.10
20	QPSK	1	49	23.09	23.16	23.09
20	QPSK	1	99	23.04	23.12	23.02
20	QPSK	50	0	22.25	22.42	22.40
20	QPSK	50	24	22.24	22.41	22.38



20	QPSK	50	50	22.24	22.40	22.34
20	QPSK	100	0	22.17	22.28	22.22
20	16QAM	1	0	22.56	22.64	22.64
20	16QAM	1	49	22.49	22.53	22.55
20	16QAM	1	99	22.45	22.39	22.50
20	16QAM	50	0	21.69	21.60	21.71
20	16QAM	50	24	21.66	21.58	21.70
20	16QAM	50	50	21.65	21.56	21.69
20	16QAM	100	0	21.54	21.50	21.65
20	64QAM	1	0	22.02	22.03	22.10
20	64QAM	1	49	21.94	22.03	21.98
20	64QAM	1	99	21.80	22.01	21.92
20	64QAM	50	0	20.91	21.11	21.14
20	64QAM	50	24	20.91	21.10	21.12
20	64QAM	50	50	20.90	21.06	21.11
20	64QAM	100	0	20.81	20.94	21.11

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	23.11	23.05	23.09
15	QPSK	1	37	23.03	22.99	22.85
15	QPSK	1	74	23.03	22.94	22.87
15	QPSK	36	0	22.46	22.31	22.30
15	QPSK	36	20	22.37	22.25	22.27
15	QPSK	36	39	22.42	22.19	22.29
15	QPSK	75	0	22.28	22.19	22.20
15	16QAM	1	0	22.64	22.63	22.50



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15	16QAM	1	37	22.68	22.51	22.40
15	16QAM	1	74	22.59	22.40	22.30
15	16QAM	36	0	21.89	21.85	21.63
15	16QAM	36	20	21.84	21.73	21.48
15	16QAM	36	39	21.79	21.71	21.55
15	16QAM	75	0	21.74	21.63	21.50
15	64QAM	1	0	22.19	22.25	21.79
15	64QAM	1	37	22.09	22.17	21.78
15	64QAM	1	74	21.97	22.07	21.84
15	64QAM	36	0	21.30	21.21	20.98
15	64QAM	36	20	21.14	21.23	20.89
15	64QAM	36	39	21.09	21.23	20.93
15	64QAM	75	0	21.10	21.09	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				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	23.18	23.13	23.01
10	QPSK	1	25	23.09	22.97	22.99
10	QPSK	1	49	23.02	22.90	22.93
10	QPSK	25	0	22.33	22.20	22.27
10	QPSK	25	12	22.38	22.31	22.28
10	QPSK	25	25	22.36	22.15	22.23
10	QPSK	50	0	22.27	22.16	22.11
10	16QAM	1	0	22.75	22.65	22.58
10	16QAM	1	25	22.70	22.56	22.47
10	16QAM	1	49	22.63	22.45	22.37
10	16QAM	25	0	21.84	21.80	21.60
10	16QAM	25	12	21.75	21.77	21.60
10	16QAM	25	25	21.83	21.67	21.50
10	16QAM	50	0	21.78	21.70	21.38
10	64QAM	1	0	22.13	22.19	21.82
10	64QAM	1	25	22.12	22.23	21.90
10	64QAM	1	49	21.99	22.09	21.77
10	64QAM	25	0	21.31	21.23	20.97
10	64QAM	25	12	21.13	21.24	20.96
10	64QAM	25	25	21.15	21.12	20.95
10	64QAM	50	0	21.19	21.09	20.85



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	23.13	23.09	23.12
5	QPSK	1	12	23.07	22.95	22.88
5	QPSK	1	24	23.04	22.89	22.85
5	QPSK	12	0	22.32	22.23	22.28
5	QPSK	12	7	22.43	22.17	22.24
5	QPSK	12	13	22.30	22.19	22.20
5	QPSK	25	0	22.30	22.11	22.20
5	16QAM	1	0	22.73	22.68	22.45
5	16QAM	1	12	22.65	22.50	22.42
5	16QAM	1	24	22.67	22.46	22.40
5	16QAM	12	0	21.88	21.82	21.59
5	16QAM	12	7	21.84	21.69	21.56
5	16QAM	12	13	21.75	21.74	21.50
5	16QAM	25	0	21.73	21.72	21.49
5	64QAM	1	0	22.11	22.20	21.87
5	64QAM	1	12	22.09	22.23	21.85
5	64QAM	1	24	21.97	22.04	21.81
5	64QAM	12	0	21.29	21.30	21.04
5	64QAM	12	7	21.17	21.26	21.01
5	64QAM	12	13	21.11	21.20	20.99
5	64QAM	25	0	21.21	21.13	20.94



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	23.14	23.09	23.02
3	QPSK	1	8	23.08	22.91	22.88
3	QPSK	1	14	23.03	22.89	22.96
3	QPSK	8	0	22.34	22.25	22.28
3	QPSK	8	4	22.32	22.27	22.29
3	QPSK	8	7	22.33	22.16	22.26
3	QPSK	15	0	22.27	22.06	22.13
3	16QAM	1	0	22.75	22.63	22.52
3	16QAM	1	8	22.65	22.55	22.52
3	16QAM	1	14	22.63	22.52	22.34
3	16QAM	8	0	21.76	21.76	21.65
3	16QAM	8	4	21.84	21.79	21.57
3	16QAM	8	7	21.84	21.70	21.49
3	16QAM	15	0	21.71	21.67	21.52
3	64QAM	1	0	22.17	22.29	21.92
3	64QAM	1	8	22.01	22.21	21.81
3	64QAM	1	14	21.97	22.09	21.79
3	64QAM	8	0	21.21	21.32	20.93
3	64QAM	8	4	21.19	21.24	21.00
3	64QAM	8	7	21.13	21.23	21.01
3	64QAM	15	0	21.19	21.09	20.91



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	23.20	23.07	22.99
1.4	QPSK	1	3	23.04	22.89	22.86
1.4	QPSK	1	5	23.05	22.92	22.89
1.4	QPSK	3	0	22.55	22.40	22.42
1.4	QPSK	3	1	22.55	22.27	22.28
1.4	QPSK	3	3	22.40	22.27	22.39
1.4	QPSK	6	0	22.34	22.07	22.13
1.4	16QAM	1	0	22.70	22.57	22.57
1.4	16QAM	1	3	22.60	22.56	22.51
1.4	16QAM	1	5	22.67	22.49	22.35
1.4	16QAM	3	0	21.89	21.81	21.55
1.4	16QAM	3	1	21.74	21.69	21.61
1.4	16QAM	3	3	21.76	21.78	21.56
1.4	16QAM	6	0	21.78	21.65	21.37
1.4	64QAM	1	0	22.19	22.18	21.79
1.4	64QAM	1	3	22.01	22.16	21.85
1.4	64QAM	1	5	22.00	22.09	21.83
1.4	64QAM	3	0	21.28	21.25	20.93
1.4	64QAM	3	1	21.25	21.27	20.97
1.4	64QAM	3	3	21.19	21.22	20.98
1.4	64QAM	6	0	21.08	21.19	20.94



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	23.27	23.32	23.28
20	QPSK	1	49	23.19	23.27	23.20
20	QPSK	1	99	23.16	23.19	23.10
20	QPSK	50	0	22.31	22.42	22.35
20	QPSK	50	24	22.27	22.37	22.33
20	QPSK	50	50	22.27	22.33	22.40
20	QPSK	100	0	22.20	22.39	22.29
20	16QAM	1	0	22.58	22.51	22.90
20	16QAM	1	49	22.53	22.41	22.80
20	16QAM	1	99	22.53	22.40	22.68
20	16QAM	50	0	21.87	21.67	21.87
20	16QAM	50	24	21.84	21.65	21.86
20	16QAM	50	50	21.82	21.63	21.83
20	16QAM	100	0	21.68	21.48	21.79
20	64QAM	1	0	22.22	22.03	22.21
20	64QAM	1	49	22.10	21.89	22.12
20	64QAM	1	99	22.05	21.80	21.98
20	64QAM	50	0	21.27	20.99	21.31
20	64QAM	50	24	21.24	20.96	21.27
20	64QAM	50	50	21.21	20.94	21.26
20	64QAM	100	0	21.20	20.90	21.21



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	23.16	23.23	23.23
15	QPSK	1	37	23.03	23.10	22.98
15	QPSK	1	74	23.06	23.13	22.89
15	QPSK	36	0	22.43	22.41	22.38
15	QPSK	36	20	22.42	22.32	22.32
15	QPSK	36	39	22.36	22.42	22.44
15	QPSK	75	0	22.24	22.38	22.23
15	16QAM	1	0	22.65	22.77	22.61
15	16QAM	1	37	22.68	22.76	22.56
15	16QAM	1	74	22.59	22.67	22.53
15	16QAM	36	0	21.84	21.90	21.82
15	16QAM	36	20	21.82	21.92	21.86
15	16QAM	36	39	21.66	21.96	21.84
15	16QAM	75	0	21.67	21.84	21.74
15	64QAM	1	0	22.34	22.32	22.24
15	64QAM	1	37	22.32	22.24	22.23
15	64QAM	1	74	22.12	22.07	22.20
15	64QAM	36	0	21.40	21.33	21.43
15	64QAM	36	20	21.34	21.37	21.33
15	64QAM	36	39	21.31	21.27	21.33
15	64QAM	75	0	21.18	21.22	21.36



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	23.22	23.28	23.17
10	QPSK	1	25	23.03	23.07	22.98
10	QPSK	1	49	22.99	23.14	22.94
10	QPSK	25	0	22.51	22.33	22.45
10	QPSK	25	12	22.44	22.39	22.45
10	QPSK	25	25	22.44	22.39	22.35
10	QPSK	50	0	22.36	22.37	22.24
10	16QAM	1	0	22.75	22.85	22.71
10	16QAM	1	25	22.71	22.73	22.61
10	16QAM	1	49	22.60	22.72	22.51
10	16QAM	25	0	21.73	21.95	21.89
10	16QAM	25	12	21.75	21.87	21.79
10	16QAM	25	25	21.68	21.91	21.80
10	16QAM	50	0	21.71	21.80	21.60
10	64QAM	1	0	22.37	22.35	22.34
10	64QAM	1	25	22.27	22.21	22.21
10	64QAM	1	49	22.16	22.11	22.09
10	64QAM	25	0	21.46	21.32	21.37
10	64QAM	25	12	21.44	21.34	21.37
10	64QAM	25	25	21.35	21.28	21.30
10	64QAM	50	0	21.19	21.14	21.34



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	23.22	23.26	23.22
5	QPSK	1	12	23.13	23.13	22.97
5	QPSK	1	24	23.10	23.01	22.93
5	QPSK	12	0	22.46	22.41	22.45
5	QPSK	12	7	22.39	22.31	22.35
5	QPSK	12	13	22.37	22.42	22.32
5	QPSK	25	0	22.36	22.35	22.20
5	16QAM	1	0	22.76	22.81	22.73
5	16QAM	1	12	22.68	22.72	22.50
5	16QAM	1	24	22.55	22.69	22.46
5	16QAM	12	0	21.79	21.87	21.89
5	16QAM	12	7	21.72	21.87	21.76
5	16QAM	12	13	21.79	21.89	21.72
5	16QAM	25	0	21.73	21.90	21.72
5	64QAM	1	0	22.39	22.30	22.28
5	64QAM	1	12	22.32	22.19	22.15
5	64QAM	1	24	22.25	22.15	22.10
5	64QAM	12	0	21.45	21.31	21.42
5	64QAM	12	7	21.42	21.24	21.34
5	64QAM	12	13	21.27	21.23	21.31
5	64QAM	25	0	21.29	21.29	21.40



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	23.21	23.19	23.26
3	QPSK	1	8	23.14	23.12	23.06
3	QPSK	1	14	23.03	23.07	22.91
3	QPSK	8	0	22.43	22.34	22.48
3	QPSK	8	4	22.48	22.45	22.38
3	QPSK	8	7	22.46	22.37	22.34
3	QPSK	15	0	22.33	22.37	22.20
3	16QAM	1	0	22.70	22.86	22.68
3	16QAM	1	8	22.58	22.78	22.50
3	16QAM	1	14	22.56	22.72	22.40
3	16QAM	8	0	21.76	21.97	21.85
3	16QAM	8	4	21.75	21.86	21.79
3	16QAM	8	7	21.69	21.86	21.77
3	16QAM	15	0	21.66	21.78	21.69
3	64QAM	1	0	22.30	22.26	22.24
3	64QAM	1	8	22.29	22.17	22.25
3	64QAM	1	14	22.14	22.07	22.13
3	64QAM	8	0	21.45	21.29	21.32
3	64QAM	8	4	21.33	21.26	21.42
3	64QAM	8	7	21.30	21.23	21.32
3	64QAM	15	0	21.32	21.24	21.29



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	23.20	23.27	23.16
1.4	QPSK	1	3	23.14	23.16	23.10
1.4	QPSK	1	5	23.10	23.00	22.90
1.4	QPSK	3	0	22.43	22.39	22.41
1.4	QPSK	3	1	22.46	22.45	22.43
1.4	QPSK	3	3	22.44	22.35	22.41
1.4	QPSK	6	0	22.35	22.43	22.21
1.4	16QAM	1	0	22.79	22.83	22.68
1.4	16QAM	1	3	22.58	22.82	22.54
1.4	16QAM	1	5	22.47	22.74	22.41
1.4	16QAM	3	0	21.86	21.96	21.88
1.4	16QAM	3	1	21.70	21.91	21.74
1.4	16QAM	3	3	21.77	21.93	21.80
1.4	16QAM	6	0	21.68	21.77	21.72
1.4	64QAM	1	0	22.37	22.30	22.33
1.4	64QAM	1	3	22.34	22.12	22.20
1.4	64QAM	1	5	22.12	22.07	22.21
1.4	64QAM	3	0	21.43	21.34	21.39
1.4	64QAM	3	1	21.33	21.33	21.36
1.4	64QAM	3	3	21.28	21.32	21.32
1.4	64QAM	6	0	21.27	21.15	21.36



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	23.34	23.40	23.38
10	QPSK	1	25	23.33	23.38	23.35
10	QPSK	1	49	23.19	23.37	23.25
10	QPSK	25	0	22.57	22.59	22.52
10	QPSK	25	12	22.52	22.56	22.51
10	QPSK	25	25	22.49	22.54	22.46
10	QPSK	50	0	22.36	22.51	22.38
10	16QAM	1	0	22.72	22.94	22.88
10	16QAM	1	25	22.71	22.92	22.73
10	16QAM	1	49	22.71	22.88	22.62
10	16QAM	25	0	21.87	22.10	21.79
10	16QAM	25	12	21.85	22.09	21.74
10	16QAM	25	25	21.84	22.09	21.73
10	16QAM	50	0	21.77	22.00	21.73
10	64QAM	1	0	21.68	22.01	21.85
10	64QAM	1	25	21.68	21.89	21.80
10	64QAM	1	49	21.64	21.81	21.69
10	64QAM	25	0	20.92	21.14	20.95
10	64QAM	25	12	20.89	21.10	20.91
10	64QAM	25	25	20.88	21.06	20.86
10	64QAM	50	0	20.78	21.01	20.83



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	23.26	23.34	23.23
5	QPSK	1	12	23.24	23.20	23.20
5	QPSK	1	24	23.10	23.11	23.09
5	QPSK	12	0	22.58	22.28	22.49
5	QPSK	12	7	22.44	22.25	22.37
5	QPSK	12	13	22.41	22.31	22.40
5	QPSK	25	0	22.40	22.24	22.27
5	16QAM	1	0	22.79	22.60	22.66
5	16QAM	1	12	22.81	22.56	22.50
5	16QAM	1	24	22.67	22.41	22.37
5	16QAM	12	0	21.86	21.83	21.77
5	16QAM	12	7	21.89	21.82	21.76
5	16QAM	12	13	21.89	21.74	21.73
5	16QAM	25	0	21.80	21.74	21.51
5	64QAM	1	0	21.84	21.88	21.60
5	64QAM	1	12	21.77	21.82	21.55
5	64QAM	1	24	21.70	21.81	21.50
5	64QAM	12	0	20.92	21.09	20.65
5	64QAM	12	7	20.97	21.05	20.72
5	64QAM	12	13	20.82	20.99	20.60
5	64QAM	25	0	20.83	20.89	20.59



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	23.35	23.31	23.21
3	QPSK	1	8	23.20	23.27	23.24
3	QPSK	1	14	23.12	23.08	23.15
3	QPSK	8	0	22.47	22.35	22.37
3	QPSK	8	4	22.45	22.22	22.45
3	QPSK	8	7	22.43	22.32	22.43
3	QPSK	15	0	22.37	22.25	22.28
3	16QAM	1	0	22.82	22.65	22.52
3	16QAM	1	8	22.77	22.59	22.45
3	16QAM	1	14	22.71	22.48	22.42
3	16QAM	8	0	21.99	21.79	21.78
3	16QAM	8	4	21.94	21.73	21.66
3	16QAM	8	7	21.85	21.81	21.62
3	16QAM	15	0	21.80	21.69	21.63
3	64QAM	1	0	21.95	21.89	21.60
3	64QAM	1	8	21.78	21.76	21.56
3	64QAM	1	14	21.66	21.80	21.51
3	64QAM	8	0	20.97	21.15	20.68
3	64QAM	8	4	20.96	21.13	20.69
3	64QAM	8	7	20.88	20.99	20.68
3	64QAM	15	0	20.93	21.02	20.48



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	23.34	23.23	23.28
1.4	QPSK	1	3	23.26	23.24	23.22
1.4	QPSK	1	5	23.06	23.13	23.16
1.4	QPSK	3	0	22.56	22.27	22.42
1.4	QPSK	3	1	22.51	22.33	22.43
1.4	QPSK	3	3	22.39	22.28	22.41
1.4	QPSK	6	0	22.41	22.26	22.26
1.4	16QAM	1	0	22.79	22.62	22.52
1.4	16QAM	1	3	22.75	22.60	22.46
1.4	16QAM	1	5	22.68	22.51	22.42
1.4	16QAM	3	0	21.94	21.75	21.79
1.4	16QAM	3	1	21.90	21.75	21.75
1.4	16QAM	3	3	21.81	21.80	21.69
1.4	16QAM	6	0	21.80	21.69	21.57
1.4	64QAM	1	0	21.86	21.86	21.55
1.4	64QAM	1	3	21.80	21.84	21.51
1.4	64QAM	1	5	21.72	21.70	21.53
1.4	64QAM	3	0	20.94	21.02	20.75
1.4	64QAM	3	1	20.91	21.10	20.62
1.4	64QAM	3	3	20.83	21.11	20.63
1.4	64QAM	6	0	20.95	20.90	20.51



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20850	21100	21350
Frequency (MHz)				2510	2535	2560
20	QPSK	1	0	23.06	23.10	23.03
20	QPSK	1	49	22.93	23.09	23.00
20	QPSK	1	99	22.91	23.01	22.89
20	QPSK	50	0	22.07	22.22	22.17
20	QPSK	50	24	22.06	22.19	22.17
20	QPSK	50	50	22.03	22.16	22.12
20	QPSK	100	0	21.93	22.02	22.00
20	16QAM	1	0	22.37	22.40	22.46
20	16QAM	1	49	22.37	22.30	22.32
20	16QAM	1	99	22.27	22.23	22.25
20	16QAM	50	0	21.42	21.60	21.65
20	16QAM	50	24	21.37	21.58	21.61
20	16QAM	50	50	21.32	21.55	21.58
20	16QAM	100	0	21.21	21.43	21.55
20	64QAM	1	0	21.62	21.84	22.15
20	64QAM	1	49	21.58	21.80	22.10
20	64QAM	1	99	21.47	21.70	22.07
20	64QAM	50	0	20.67	20.80	21.28
20	64QAM	50	24	20.63	20.77	21.26
20	64QAM	50	50	20.62	20.75	21.22
20	64QAM	100	0	20.49	20.66	21.14



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5
15	QPSK	1	0	22.96	22.95	22.85
15	QPSK	1	37	22.80	22.92	22.88
15	QPSK	1	74	22.86	22.83	22.79
15	QPSK	36	0	22.10	21.88	22.22
15	QPSK	36	20	22.00	21.96	22.07
15	QPSK	36	39	22.01	21.83	22.09
15	QPSK	75	0	22.07	21.74	22.06
15	16QAM	1	0	22.39	22.36	22.36
15	16QAM	1	37	22.43	22.21	22.39
15	16QAM	1	74	22.22	22.12	22.26
15	16QAM	36	0	21.53	21.40	21.53
15	16QAM	36	20	21.51	21.39	21.57
15	16QAM	36	39	21.39	21.33	21.55
15	16QAM	75	0	21.35	21.25	21.49
15	64QAM	1	0	21.83	21.64	22.03
15	64QAM	1	37	21.71	21.61	21.83
15	64QAM	1	74	21.61	21.53	21.82
15	64QAM	36	0	20.80	20.82	20.95
15	64QAM	36	20	20.89	20.75	20.96
15	64QAM	36	39	20.83	20.66	20.94
15	64QAM	75	0	20.67	20.64	20.96



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20800	21100	21400
Frequency (MHz)				2505	2535	2565
10	QPSK	1	0	22.96	22.99	22.97
10	QPSK	1	25	22.85	22.95	22.84
10	QPSK	1	49	22.81	22.73	22.74
10	QPSK	25	0	22.06	21.96	22.24
10	QPSK	25	12	22.10	21.95	22.17
10	QPSK	25	25	21.99	21.96	22.09
10	QPSK	50	0	22.08	21.83	22.16
10	16QAM	1	0	22.44	22.27	22.42
10	16QAM	1	25	22.48	22.13	22.42
10	16QAM	1	49	22.26	22.17	22.27
10	16QAM	25	0	21.41	21.42	21.53
10	16QAM	25	12	21.42	21.38	21.54
10	16QAM	25	25	21.37	21.42	21.53
10	16QAM	50	0	21.30	21.32	21.55
10	64QAM	1	0	21.83	21.76	22.04
10	64QAM	1	25	21.79	21.70	21.86
10	64QAM	1	49	21.58	21.63	21.92
10	64QAM	25	0	20.84	20.76	20.94
10	64QAM	25	12	20.86	20.79	20.97
10	64QAM	25	25	20.87	20.77	20.91
10	64QAM	50	0	20.76	20.67	20.89



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	23.00	22.94	22.86
5	QPSK	1	12	22.91	22.86	22.90
5	QPSK	1	24	22.81	22.71	22.81
5	QPSK	12	0	22.06	22.01	22.17
5	QPSK	12	7	21.98	21.93	22.09
5	QPSK	12	13	22.07	21.94	22.10
5	QPSK	25	0	22.08	21.80	22.13
5	16QAM	1	0	22.47	22.23	22.36
5	16QAM	1	12	22.49	22.24	22.38
5	16QAM	1	24	22.23	22.11	22.31
5	16QAM	12	0	21.52	21.41	21.57
5	16QAM	12	7	21.43	21.35	21.62
5	16QAM	12	13	21.36	21.43	21.60
5	16QAM	25	0	21.34	21.31	21.56
5	64QAM	1	0	21.80	21.72	21.98
5	64QAM	1	12	21.70	21.71	21.87
5	64QAM	1	24	21.64	21.56	21.89
5	64QAM	12	0	20.84	20.78	20.98
5	64QAM	12	7	20.81	20.73	21.01
5	64QAM	12	13	20.86	20.66	20.89
5	64QAM	25	0	20.69	20.62	20.87



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23060	23095	23130
Frequency (MHz)				704	707.5	711
10	QPSK	1	0	23.26	23.31	23.18
10	QPSK	1	25	23.14	23.27	23.05
10	QPSK	1	49	23.13	23.24	23.00
10	QPSK	25	0	22.40	22.43	22.35
10	QPSK	25	12	22.37	22.40	22.33
10	QPSK	25	25	22.33	22.38	22.28
10	QPSK	50	0	22.38	22.34	22.19
10	16QAM	1	0	22.89	22.78	22.64
10	16QAM	1	25	22.76	22.74	22.60
10	16QAM	1	49	22.73	22.69	22.54
10	16QAM	25	0	21.91	21.93	21.77
10	16QAM	25	12	21.90	21.92	21.74
10	16QAM	25	25	21.86	21.88	21.71
10	16QAM	50	0	21.78	21.81	21.58
10	64QAM	1	0	22.26	22.38	22.06
10	64QAM	1	25	22.23	22.36	22.00
10	64QAM	1	49	22.09	22.25	21.95
10	64QAM	25	0	21.38	21.34	21.06
10	64QAM	25	12	21.38	21.33	21.04
10	64QAM	25	25	21.35	21.33	21.00
10	64QAM	50	0	21.34	21.22	20.87



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	23.20	23.18	23.18
5	QPSK	1	12	23.09	23.14	23.15
5	QPSK	1	24	23.03	23.06	23.06
5	QPSK	12	0	22.27	22.33	22.44
5	QPSK	12	7	22.32	22.37	22.29
5	QPSK	12	13	22.25	22.24	22.27
5	QPSK	25	0	22.07	22.22	22.15
5	16QAM	1	0	22.56	22.49	22.59
5	16QAM	1	12	22.59	22.44	22.45
5	16QAM	1	24	22.54	22.24	22.37
5	16QAM	12	0	21.82	21.64	21.55
5	16QAM	12	7	21.76	21.58	21.56
5	16QAM	12	13	21.76	21.65	21.53
5	16QAM	25	0	21.72	21.43	21.39
5	64QAM	1	0	22.06	22.01	22.07
5	64QAM	1	12	21.91	21.89	21.98
5	64QAM	1	24	21.99	21.80	21.88
5	64QAM	12	0	21.19	21.01	21.20
5	64QAM	12	7	21.08	20.95	21.13
5	64QAM	12	13	21.18	20.92	20.97
5	64QAM	25	0	21.05	20.92	20.94



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	23.25	23.12	23.16
3	QPSK	1	8	23.00	23.15	23.17
3	QPSK	1	14	23.00	23.00	23.02
3	QPSK	8	0	22.26	22.38	22.38
3	QPSK	8	4	22.23	22.24	22.37
3	QPSK	8	7	22.21	22.32	22.34
3	QPSK	15	0	22.12	22.25	22.13
3	16QAM	1	0	22.58	22.45	22.55
3	16QAM	1	8	22.55	22.47	22.43
3	16QAM	1	14	22.63	22.31	22.34
3	16QAM	8	0	21.87	21.64	21.58
3	16QAM	8	4	21.75	21.61	21.55
3	16QAM	8	7	21.78	21.64	21.47
3	16QAM	15	0	21.65	21.41	21.46
3	64QAM	1	0	22.11	22.01	22.04
3	64QAM	1	8	22.02	21.89	21.94
3	64QAM	1	14	21.98	21.76	21.90
3	64QAM	8	0	21.14	21.08	21.06
3	64QAM	8	4	21.10	21.01	21.05
3	64QAM	8	7	21.18	20.93	20.99
3	64QAM	15	0	21.17	20.93	20.89



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	23.17	23.07	23.11
1.4	QPSK	1	3	22.98	23.10	23.09
1.4	QPSK	1	5	22.96	23.08	23.03
1.4	QPSK	3	0	22.25	22.37	22.33
1.4	QPSK	3	1	22.24	22.24	22.38
1.4	QPSK	3	3	22.16	22.29	22.33
1.4	QPSK	6	0	22.02	22.11	22.14
1.4	16QAM	1	0	22.61	22.44	22.55
1.4	16QAM	1	3	22.65	22.39	22.52
1.4	16QAM	1	5	22.53	22.32	22.43
1.4	16QAM	3	0	21.90	21.55	21.53
1.4	16QAM	3	1	21.82	21.63	21.62
1.4	16QAM	3	3	21.76	21.62	21.48
1.4	16QAM	6	0	21.65	21.37	21.35
1.4	64QAM	1	0	22.16	22.07	22.10
1.4	64QAM	1	3	21.92	21.91	22.02
1.4	64QAM	1	5	21.92	21.80	21.87
1.4	64QAM	3	0	21.24	21.03	21.16
1.4	64QAM	3	1	21.15	21.03	21.10
1.4	64QAM	3	3	21.14	21.00	21.06
1.4	64QAM	6	0	21.06	20.93	20.93



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	/	23.44	/
10	QPSK	1	25	/	23.42	/
10	QPSK	1	49	/	23.39	/
10	QPSK	25	0	/	22.58	/
10	QPSK	25	12	/	22.57	/
10	QPSK	25	25	/	22.54	/
10	QPSK	50	0	/	22.52	/
10	16QAM	1	0	/	22.86	/
10	16QAM	1	25	/	22.77	/
10	16QAM	1	49	/	22.67	/
10	16QAM	25	0	/	22.03	/
10	16QAM	25	12	/	22.00	/
10	16QAM	25	25	/	21.96	/
10	16QAM	50	0	/	21.88	/
10	64QAM	1	0	/	22.50	/
10	64QAM	1	25	/	22.47	/
10	64QAM	1	49	/	22.34	/
10	64QAM	25	0	/	21.12	/
10	64QAM	25	12	/	21.07	/
10	64QAM	25	25	/	20.92	/
10	64QAM	50	0	/	21.00	/



LTE Band 13						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23205	23230	23255
Frequency (MHz)				779.5	782	784.5
5	QPSK	1	0	23.43	23.35	23.32
5	QPSK	1	12	23.31	23.34	23.37
5	QPSK	1	24	23.19	23.21	23.27
5	QPSK	12	0	22.23	22.17	22.35
5	QPSK	12	7	22.17	22.21	22.20
5	QPSK	12	13	22.12	22.19	22.29
5	QPSK	25	0	22.01	22.08	22.01
5	16QAM	1	0	22.50	22.48	22.51
5	16QAM	1	12	22.48	22.24	22.31
5	16QAM	1	24	22.47	22.20	22.37
5	16QAM	12	0	21.72	21.49	21.42
5	16QAM	12	7	21.78	21.51	21.39
5	16QAM	12	13	21.73	21.49	21.49
5	16QAM	25	0	21.60	21.27	21.28
5	64QAM	1	0	22.00	21.89	21.88
5	64QAM	1	12	21.95	21.76	21.87
5	64QAM	1	24	21.79	21.80	21.82
5	64QAM	12	0	21.09	20.99	20.98
5	64QAM	12	7	21.01	20.88	20.99
5	64QAM	12	13	21.05	20.91	20.94
5	64QAM	25	0	20.94	20.91	20.80



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	23.12	23.19	23.14
20	QPSK	1	49	23.00	23.06	23.05
20	QPSK	1	99	22.89	22.99	22.91
20	QPSK	50	0	22.16	22.40	22.31
20	QPSK	50	24	22.05	22.27	22.35
20	QPSK	50	50	22.05	22.26	22.31
20	QPSK	100	0	22.11	22.31	22.27
20	16QAM	1	0	22.52	22.52	22.61
20	16QAM	1	49	22.51	22.50	22.55
20	16QAM	1	99	22.50	22.48	22.42
20	16QAM	50	0	21.79	21.80	21.73
20	16QAM	50	24	21.77	21.76	21.73
20	16QAM	50	50	21.76	21.74	21.70
20	16QAM	100	0	21.72	21.70	21.60
20	64QAM	1	0	22.12	22.18	22.21
20	64QAM	1	49	22.04	22.08	22.18
20	64QAM	1	99	21.97	21.94	22.10
20	64QAM	50	0	21.28	21.03	21.22
20	64QAM	50	24	21.28	21.02	21.22
20	64QAM	50	50	21.27	21.02	21.21
20	64QAM	100	0	21.14	20.91	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				132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5
15	QPSK	1	0	23.04	23.09	23.21
15	QPSK	1	37	23.00	22.90	23.22
15	QPSK	1	74	22.80	22.84	23.10
15	QPSK	36	0	22.26	22.18	22.54
15	QPSK	36	20	22.08	22.17	22.51
15	QPSK	36	39	22.08	22.04	22.33
15	QPSK	75	0	22.09	21.98	22.36
15	16QAM	1	0	22.44	22.46	22.75
15	16QAM	1	37	22.25	22.40	22.77
15	16QAM	1	74	22.26	22.31	22.68
15	16QAM	36	0	21.43	21.68	21.89
15	16QAM	36	20	21.51	21.53	21.81
15	16QAM	36	39	21.39	21.58	21.84
15	16QAM	75	0	21.19	21.57	21.77
15	64QAM	1	0	21.92	22.11	22.31
15	64QAM	1	37	21.76	22.00	22.18
15	64QAM	1	74	21.59	21.89	22.12
15	64QAM	36	0	20.92	21.21	21.32
15	64QAM	36	20	20.92	21.21	21.31
15	64QAM	36	39	20.88	21.23	21.28
15	64QAM	75	0	20.92	21.27	21.19



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	23.00	23.10	23.17
10	QPSK	1	25	22.96	22.90	23.21
10	QPSK	1	49	22.93	22.88	23.00
10	QPSK	25	0	22.15	22.11	22.54
10	QPSK	25	12	22.14	22.08	22.46
10	QPSK	25	25	22.11	22.00	22.43
10	QPSK	50	0	22.09	22.00	22.47
10	16QAM	1	0	22.39	22.43	22.82
10	16QAM	1	25	22.24	22.29	22.73
10	16QAM	1	49	22.28	22.39	22.72
10	16QAM	25	0	21.50	21.59	21.82
10	16QAM	25	12	21.37	21.63	21.75
10	16QAM	25	25	21.34	21.61	21.83
10	16QAM	50	0	21.30	21.56	21.81
10	64QAM	1	0	21.82	22.03	22.23
10	64QAM	1	25	21.82	22.01	22.22
10	64QAM	1	49	21.69	21.88	22.08
10	64QAM	25	0	20.92	21.31	21.32
10	64QAM	25	12	20.94	21.32	21.32
10	64QAM	25	25	20.89	21.29	21.37
10	64QAM	50	0	20.97	21.31	21.22



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	23.11	23.06	23.20
5	QPSK	1	12	22.97	22.99	23.22
5	QPSK	1	24	22.95	22.87	23.07
5	QPSK	12	0	22.20	22.14	22.50
5	QPSK	12	7	22.08	22.12	22.44
5	QPSK	12	13	22.13	22.09	22.40
5	QPSK	25	0	21.95	22.07	22.40
5	16QAM	1	0	22.32	22.46	22.75
5	16QAM	1	12	22.19	22.35	22.69
5	16QAM	1	24	22.22	22.30	22.70
5	16QAM	12	0	21.46	21.56	21.87
5	16QAM	12	7	21.40	21.60	21.87
5	16QAM	12	13	21.43	21.61	21.74
5	16QAM	25	0	21.31	21.61	21.78
5	64QAM	1	0	21.94	22.13	22.32
5	64QAM	1	12	21.79	22.08	22.19
5	64QAM	1	24	21.65	22.02	22.16
5	64QAM	12	0	21.00	21.26	21.32
5	64QAM	12	7	20.87	21.30	21.33
5	64QAM	12	13	20.88	21.33	21.34
5	64QAM	25	0	20.98	21.24	21.23



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	23.11	23.04	23.22
3	QPSK	1	8	22.92	22.96	23.10
3	QPSK	1	14	22.93	22.82	23.01
3	QPSK	8	0	22.20	22.11	22.51
3	QPSK	8	4	22.17	22.15	22.45
3	QPSK	8	7	22.10	22.01	22.36
3	QPSK	15	0	22.05	22.06	22.35
3	16QAM	1	0	22.36	22.42	22.70
3	16QAM	1	8	22.22	22.39	22.71
3	16QAM	1	14	22.23	22.40	22.68
3	16QAM	8	0	21.48	21.62	21.87
3	16QAM	8	4	21.49	21.57	21.89
3	16QAM	8	7	21.44	21.55	21.86
3	16QAM	15	0	21.31	21.47	21.76
3	64QAM	1	0	21.95	22.06	22.30
3	64QAM	1	8	21.75	22.06	22.10
3	64QAM	1	14	21.71	21.97	22.12
3	64QAM	8	0	21.00	21.21	21.40
3	64QAM	8	4	20.92	21.24	21.36
3	64QAM	8	7	20.84	21.30	21.30
3	64QAM	15	0	20.89	21.20	21.13



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	23.08	23.01	23.22
1.4	QPSK	1	3	22.95	22.93	23.21
1.4	QPSK	1	5	22.90	22.91	23.05
1.4	QPSK	3	0	22.19	22.10	22.53
1.4	QPSK	3	1	22.20	22.09	22.42
1.4	QPSK	3	3	22.12	22.00	22.40
1.4	QPSK	6	0	21.96	21.98	22.37
1.4	16QAM	1	0	22.42	22.47	22.68
1.4	16QAM	1	3	22.23	22.38	22.67
1.4	16QAM	1	5	22.20	22.29	22.63
1.4	16QAM	3	0	21.45	21.60	21.87
1.4	16QAM	3	1	21.37	21.63	21.89
1.4	16QAM	3	3	21.40	21.66	21.86
1.4	16QAM	6	0	21.24	21.56	21.74
1.4	64QAM	1	0	21.95	22.09	22.23
1.4	64QAM	1	3	21.74	22.01	22.18
1.4	64QAM	1	5	21.66	21.98	22.13
1.4	64QAM	3	0	20.92	21.36	21.33
1.4	64QAM	3	1	20.91	21.27	21.38
1.4	64QAM	3	3	20.94	21.21	21.30
1.4	64QAM	6	0	20.95	21.30	21.17

**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	24.90	0.309	24.99	0.316	24.85	0.305
20	QPSK	1	49	24.84	0.305	24.91	0.310	24.84	0.305
20	QPSK	1	99	24.79	0.301	24.87	0.307	24.77	0.300
20	QPSK	50	0	24.00	0.251	24.17	0.261	24.15	0.260
20	QPSK	50	24	23.99	0.251	24.16	0.261	24.13	0.259
20	QPSK	50	50	23.99	0.251	24.15	0.260	24.09	0.256
20	QPSK	100	0	23.92	0.247	24.03	0.253	23.97	0.249
20	16QAM	1	0	24.31	0.270	24.39	0.275	24.39	0.275
20	16QAM	1	49	24.24	0.265	24.28	0.268	24.30	0.269
20	16QAM	1	99	24.20	0.263	24.14	0.259	24.25	0.266
20	16QAM	50	0	23.44	0.221	23.35	0.216	23.46	0.222
20	16QAM	50	24	23.41	0.219	23.33	0.215	23.45	0.221
20	16QAM	50	50	23.40	0.219	23.31	0.214	23.44	0.221
20	16QAM	100	0	23.29	0.213	23.25	0.211	23.40	0.219
20	64QAM	1	0	23.77	0.238	23.78	0.239	23.85	0.243
20	64QAM	1	49	23.69	0.234	23.78	0.239	23.73	0.236
20	64QAM	1	99	23.55	0.226	23.76	0.238	23.67	0.233
20	64QAM	50	0	22.66	0.185	22.86	0.193	22.89	0.195
20	64QAM	50	24	22.66	0.185	22.85	0.193	22.87	0.194
20	64QAM	50	50	22.65	0.184	22.81	0.191	22.86	0.193
20	64QAM	100	0	22.56	0.180	22.69	0.186	22.86	0.193



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	24.86	0.306	24.80	0.302	24.84	0.305
15	QPSK	1	37	24.78	0.301	24.74	0.298	24.60	0.288
15	QPSK	1	74	24.78	0.301	24.69	0.294	24.62	0.290
15	QPSK	36	0	24.21	0.264	24.06	0.255	24.05	0.254
15	QPSK	36	20	24.12	0.258	24.00	0.251	24.02	0.252
15	QPSK	36	39	24.17	0.261	23.94	0.248	24.04	0.254
15	QPSK	75	0	24.03	0.253	23.94	0.248	23.95	0.248
15	16QAM	1	0	24.39	0.275	24.38	0.274	24.25	0.266
15	16QAM	1	37	24.43	0.277	24.26	0.267	24.15	0.260
15	16QAM	1	74	24.34	0.272	24.15	0.260	24.05	0.254
15	16QAM	36	0	23.64	0.231	23.60	0.229	23.38	0.218
15	16QAM	36	20	23.59	0.229	23.48	0.223	23.23	0.210
15	16QAM	36	39	23.54	0.226	23.46	0.222	23.30	0.214
15	16QAM	75	0	23.49	0.223	23.38	0.218	23.25	0.211
15	64QAM	1	0	23.94	0.248	24.00	0.251	23.54	0.226
15	64QAM	1	37	23.84	0.242	23.92	0.247	23.53	0.225
15	64QAM	1	74	23.72	0.236	23.82	0.241	23.59	0.229
15	64QAM	36	0	23.05	0.202	22.96	0.198	22.73	0.187
15	64QAM	36	20	22.89	0.195	22.98	0.199	22.64	0.184
15	64QAM	36	39	22.84	0.192	22.98	0.199	22.68	0.185
15	64QAM	75	0	22.85	0.193	22.84	0.192	22.64	0.184



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	24.93	0.311	24.88	0.308	24.76	0.299
10	QPSK	1	25	24.84	0.305	24.72	0.296	24.74	0.298
10	QPSK	1	49	24.77	0.300	24.65	0.292	24.68	0.294
10	QPSK	25	0	24.08	0.256	23.95	0.248	24.02	0.252
10	QPSK	25	12	24.13	0.259	24.06	0.255	24.03	0.253
10	QPSK	25	25	24.11	0.258	23.90	0.245	23.98	0.250
10	QPSK	50	0	24.02	0.252	23.91	0.246	23.86	0.243
10	16QAM	1	0	24.50	0.282	24.40	0.275	24.33	0.271
10	16QAM	1	25	24.45	0.279	24.31	0.270	24.22	0.264
10	16QAM	1	49	24.38	0.274	24.20	0.263	24.12	0.258
10	16QAM	25	0	23.59	0.229	23.55	0.226	23.35	0.216
10	16QAM	25	12	23.50	0.224	23.52	0.225	23.35	0.216
10	16QAM	25	25	23.58	0.228	23.42	0.220	23.25	0.211
10	16QAM	50	0	23.53	0.225	23.45	0.221	23.13	0.206
10	64QAM	1	0	23.88	0.244	23.94	0.248	23.57	0.228
10	64QAM	1	25	23.87	0.244	23.98	0.250	23.65	0.232
10	64QAM	1	49	23.74	0.237	23.84	0.242	23.52	0.225
10	64QAM	25	0	23.06	0.202	22.98	0.199	22.72	0.187
10	64QAM	25	12	22.88	0.194	22.99	0.199	22.71	0.187
10	64QAM	25	25	22.90	0.195	22.87	0.194	22.70	0.186
10	64QAM	50	0	22.94	0.197	22.84	0.192	22.60	0.182



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	24.88	0.308	24.84	0.305	24.87	0.307
5	QPSK	1	12	24.82	0.303	24.70	0.295	24.63	0.290
5	QPSK	1	24	24.79	0.301	24.64	0.291	24.60	0.288
5	QPSK	12	0	24.07	0.255	23.98	0.250	24.03	0.253
5	QPSK	12	7	24.18	0.262	23.92	0.247	23.99	0.251
5	QPSK	12	13	24.05	0.254	23.94	0.248	23.95	0.248
5	QPSK	25	0	24.05	0.254	23.86	0.243	23.95	0.248
5	16QAM	1	0	24.48	0.281	24.43	0.277	24.20	0.263
5	16QAM	1	12	24.40	0.275	24.25	0.266	24.17	0.261
5	16QAM	1	24	24.42	0.277	24.21	0.264	24.15	0.260
5	16QAM	12	0	23.63	0.231	23.57	0.228	23.34	0.216
5	16QAM	12	7	23.59	0.229	23.44	0.221	23.31	0.214
5	16QAM	12	13	23.50	0.224	23.49	0.223	23.25	0.211
5	16QAM	25	0	23.48	0.223	23.47	0.222	23.24	0.211
5	64QAM	1	0	23.86	0.243	23.95	0.248	23.62	0.230
5	64QAM	1	12	23.84	0.242	23.98	0.250	23.60	0.229
5	64QAM	1	24	23.72	0.236	23.79	0.239	23.56	0.227
5	64QAM	12	0	23.04	0.201	23.05	0.202	22.79	0.190
5	64QAM	12	7	22.92	0.196	23.01	0.200	22.76	0.189
5	64QAM	12	13	22.86	0.193	22.95	0.197	22.74	0.188
5	64QAM	25	0	22.96	0.198	22.88	0.194	22.69	0.186



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	24.89	0.308	24.84	0.305	24.77	0.300
3	QPSK	1	8	24.83	0.304	24.66	0.292	24.63	0.290
3	QPSK	1	14	24.78	0.301	24.64	0.291	24.71	0.296
3	QPSK	8	0	24.09	0.256	24.00	0.251	24.03	0.253
3	QPSK	8	4	24.07	0.255	24.02	0.252	24.04	0.254
3	QPSK	8	7	24.08	0.256	23.91	0.246	24.01	0.252
3	QPSK	15	0	24.02	0.252	23.81	0.240	23.88	0.244
3	16QAM	1	0	24.50	0.282	24.38	0.274	24.27	0.267
3	16QAM	1	8	24.40	0.275	24.30	0.269	24.27	0.267
3	16QAM	1	14	24.38	0.274	24.27	0.267	24.09	0.256
3	16QAM	8	0	23.51	0.224	23.51	0.224	23.40	0.219
3	16QAM	8	4	23.59	0.229	23.54	0.226	23.32	0.215
3	16QAM	8	7	23.59	0.229	23.45	0.221	23.24	0.211
3	16QAM	15	0	23.46	0.222	23.42	0.220	23.27	0.212
3	64QAM	1	0	23.92	0.247	24.04	0.254	23.67	0.233
3	64QAM	1	8	23.76	0.238	23.96	0.249	23.56	0.227
3	64QAM	1	14	23.72	0.236	23.84	0.242	23.54	0.226
3	64QAM	8	0	22.96	0.198	23.07	0.203	22.68	0.185
3	64QAM	8	4	22.94	0.197	22.99	0.199	22.75	0.188
3	64QAM	8	7	22.88	0.194	22.98	0.199	22.76	0.189
3	64QAM	15	0	22.94	0.197	22.84	0.192	22.66	0.185



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	24.95	0.313	24.82	0.303	24.74	0.298
1.4	QPSK	1	3	24.79	0.301	24.64	0.291	24.61	0.289
1.4	QPSK	1	5	24.80	0.302	24.67	0.293	24.64	0.291
1.4	QPSK	3	0	24.30	0.269	24.15	0.260	24.17	0.261
1.4	QPSK	3	1	24.30	0.269	24.02	0.252	24.03	0.253
1.4	QPSK	3	3	24.15	0.260	24.02	0.252	24.14	0.259
1.4	QPSK	6	0	24.09	0.256	23.82	0.241	23.88	0.244
1.4	16QAM	1	0	24.45	0.279	24.32	0.270	24.32	0.270
1.4	16QAM	1	3	24.35	0.272	24.31	0.270	24.26	0.267
1.4	16QAM	1	5	24.42	0.277	24.24	0.265	24.10	0.257
1.4	16QAM	3	0	23.64	0.231	23.56	0.227	23.30	0.214
1.4	16QAM	3	1	23.49	0.223	23.44	0.221	23.36	0.217
1.4	16QAM	3	3	23.51	0.224	23.53	0.225	23.31	0.214
1.4	16QAM	6	0	23.53	0.225	23.40	0.219	23.12	0.205
1.4	64QAM	1	0	23.94	0.248	23.93	0.247	23.54	0.226
1.4	64QAM	1	3	23.76	0.238	23.91	0.246	23.60	0.229
1.4	64QAM	1	5	23.75	0.237	23.84	0.242	23.58	0.228
1.4	64QAM	3	0	23.03	0.201	23.00	0.200	22.68	0.185
1.4	64QAM	3	1	23.00	0.200	23.02	0.200	22.72	0.187
1.4	64QAM	3	3	22.94	0.197	22.97	0.198	22.73	0.187
1.4	64QAM	6	0	22.83	0.192	22.94	0.197	22.69	0.186



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	25.11	0.324	25.16	0.328	25.12	0.325
20	QPSK	1	49	25.03	0.318	25.11	0.324	25.04	0.319
20	QPSK	1	99	25.00	0.316	25.03	0.318	24.94	0.312
20	QPSK	50	0	24.15	0.260	24.26	0.267	24.19	0.262
20	QPSK	50	24	24.11	0.258	24.21	0.264	24.17	0.261
20	QPSK	50	50	24.11	0.258	24.17	0.261	24.24	0.265
20	QPSK	100	0	24.04	0.254	24.23	0.265	24.13	0.259
20	16QAM	1	0	24.42	0.277	24.35	0.272	24.74	0.298
20	16QAM	1	49	24.37	0.274	24.25	0.266	24.64	0.291
20	16QAM	1	99	24.37	0.274	24.24	0.265	24.52	0.283
20	16QAM	50	0	23.71	0.235	23.51	0.224	23.71	0.235
20	16QAM	50	24	23.68	0.233	23.49	0.223	23.70	0.234
20	16QAM	50	50	23.66	0.232	23.47	0.222	23.67	0.233
20	16QAM	100	0	23.52	0.225	23.32	0.215	23.63	0.231
20	64QAM	1	0	24.06	0.255	23.87	0.244	24.05	0.254
20	64QAM	1	49	23.94	0.248	23.73	0.236	23.96	0.249
20	64QAM	1	99	23.89	0.245	23.64	0.231	23.82	0.241
20	64QAM	50	0	23.11	0.205	22.83	0.192	23.15	0.207
20	64QAM	50	24	23.08	0.203	22.80	0.191	23.11	0.205
20	64QAM	50	50	23.05	0.202	22.78	0.190	23.10	0.204
20	64QAM	100	0	23.04	0.201	22.74	0.188	23.05	0.202



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	25.00	0.316	25.07	0.321	25.07	0.321
15	QPSK	1	37	24.87	0.307	24.94	0.312	24.82	0.303
15	QPSK	1	74	24.90	0.309	24.97	0.314	24.73	0.297
15	QPSK	36	0	24.27	0.267	24.25	0.266	24.22	0.264
15	QPSK	36	20	24.26	0.267	24.16	0.261	24.16	0.261
15	QPSK	36	39	24.20	0.263	24.26	0.267	24.28	0.268
15	QPSK	75	0	24.08	0.256	24.22	0.264	24.07	0.255
15	16QAM	1	0	24.49	0.281	24.61	0.289	24.45	0.279
15	16QAM	1	37	24.52	0.283	24.60	0.288	24.40	0.275
15	16QAM	1	74	24.43	0.277	24.51	0.282	24.37	0.274
15	16QAM	36	0	23.68	0.233	23.74	0.237	23.66	0.232
15	16QAM	36	20	23.66	0.232	23.76	0.238	23.70	0.234
15	16QAM	36	39	23.50	0.224	23.80	0.240	23.68	0.233
15	16QAM	75	0	23.51	0.224	23.68	0.233	23.58	0.228
15	64QAM	1	0	24.18	0.262	24.16	0.261	24.08	0.256
15	64QAM	1	37	24.16	0.261	24.08	0.256	24.07	0.255
15	64QAM	1	74	23.96	0.249	23.91	0.246	24.04	0.254
15	64QAM	36	0	23.24	0.211	23.17	0.207	23.27	0.212
15	64QAM	36	20	23.18	0.208	23.21	0.209	23.17	0.207
15	64QAM	36	39	23.15	0.207	23.11	0.205	23.17	0.207
15	64QAM	75	0	23.02	0.200	23.06	0.202	23.20	0.209



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	25.06	0.321	25.12	0.325	25.01	0.317
10	QPSK	1	25	24.87	0.307	24.91	0.310	24.82	0.303
10	QPSK	1	49	24.83	0.304	24.98	0.315	24.78	0.301
10	QPSK	25	0	24.35	0.272	24.17	0.261	24.29	0.269
10	QPSK	25	12	24.28	0.268	24.23	0.265	24.29	0.269
10	QPSK	25	25	24.28	0.268	24.23	0.265	24.19	0.262
10	QPSK	50	0	24.20	0.263	24.21	0.264	24.08	0.256
10	16QAM	1	0	24.59	0.288	24.69	0.294	24.55	0.285
10	16QAM	1	25	24.55	0.285	24.57	0.286	24.45	0.279
10	16QAM	1	49	24.44	0.278	24.56	0.286	24.35	0.272
10	16QAM	25	0	23.57	0.228	23.79	0.239	23.73	0.236
10	16QAM	25	12	23.59	0.229	23.71	0.235	23.63	0.231
10	16QAM	25	25	23.52	0.225	23.75	0.237	23.64	0.231
10	16QAM	50	0	23.55	0.226	23.64	0.231	23.44	0.221
10	64QAM	1	0	24.21	0.264	24.19	0.262	24.18	0.262
10	64QAM	1	25	24.11	0.258	24.05	0.254	24.05	0.254
10	64QAM	1	49	24.00	0.251	23.95	0.248	23.93	0.247
10	64QAM	25	0	23.30	0.214	23.16	0.207	23.21	0.209
10	64QAM	25	12	23.28	0.213	23.18	0.208	23.21	0.209
10	64QAM	25	25	23.19	0.208	23.12	0.205	23.14	0.206
10	64QAM	50	0	23.03	0.201	22.98	0.199	23.18	0.208



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	25.06	0.321	25.10	0.324	25.06	0.321
5	QPSK	1	12	24.97	0.314	24.97	0.314	24.81	0.303
5	QPSK	1	24	24.94	0.312	24.85	0.305	24.77	0.300
5	QPSK	12	0	24.30	0.269	24.25	0.266	24.29	0.269
5	QPSK	12	7	24.23	0.265	24.15	0.260	24.19	0.262
5	QPSK	12	13	24.21	0.264	24.26	0.267	24.16	0.261
5	QPSK	25	0	24.20	0.263	24.19	0.262	24.04	0.254
5	16QAM	1	0	24.60	0.288	24.65	0.292	24.57	0.286
5	16QAM	1	12	24.52	0.283	24.56	0.286	24.34	0.272
5	16QAM	1	24	24.39	0.275	24.53	0.284	24.30	0.269
5	16QAM	12	0	23.63	0.231	23.71	0.235	23.73	0.236
5	16QAM	12	7	23.56	0.227	23.71	0.235	23.60	0.229
5	16QAM	12	13	23.63	0.231	23.73	0.236	23.56	0.227
5	16QAM	25	0	23.57	0.228	23.74	0.237	23.56	0.227
5	64QAM	1	0	24.23	0.265	24.14	0.259	24.12	0.258
5	64QAM	1	12	24.16	0.261	24.03	0.253	23.99	0.251
5	64QAM	1	24	24.09	0.256	23.99	0.251	23.94	0.248
5	64QAM	12	0	23.29	0.213	23.15	0.207	23.26	0.212
5	64QAM	12	7	23.26	0.212	23.08	0.203	23.18	0.208
5	64QAM	12	13	23.11	0.205	23.07	0.203	23.15	0.207
5	64QAM	25	0	23.13	0.206	23.13	0.206	23.24	0.211



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	25.05	0.320	25.03	0.318	25.10	0.324
3	QPSK	1	8	24.98	0.315	24.96	0.313	24.90	0.309
3	QPSK	1	14	24.87	0.307	24.91	0.310	24.75	0.299
3	QPSK	8	0	24.27	0.267	24.18	0.262	24.32	0.270
3	QPSK	8	4	24.32	0.270	24.29	0.269	24.22	0.264
3	QPSK	8	7	24.30	0.269	24.21	0.264	24.18	0.262
3	QPSK	15	0	24.17	0.261	24.21	0.264	24.04	0.254
3	16QAM	1	0	24.54	0.284	24.70	0.295	24.52	0.283
3	16QAM	1	8	24.42	0.277	24.62	0.290	24.34	0.272
3	16QAM	1	14	24.40	0.275	24.56	0.286	24.24	0.265
3	16QAM	8	0	23.60	0.229	23.81	0.240	23.69	0.234
3	16QAM	8	4	23.59	0.229	23.70	0.234	23.63	0.231
3	16QAM	8	7	23.53	0.225	23.70	0.234	23.61	0.230
3	16QAM	15	0	23.50	0.224	23.62	0.230	23.53	0.225
3	64QAM	1	0	24.14	0.259	24.10	0.257	24.08	0.256
3	64QAM	1	8	24.13	0.259	24.01	0.252	24.09	0.256
3	64QAM	1	14	23.98	0.250	23.91	0.246	23.97	0.249
3	64QAM	8	0	23.29	0.213	23.13	0.206	23.16	0.207
3	64QAM	8	4	23.17	0.207	23.10	0.204	23.26	0.212
3	64QAM	8	7	23.14	0.206	23.07	0.203	23.16	0.207
3	64QAM	15	0	23.16	0.207	23.08	0.203	23.13	0.206



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	25.04	0.319	25.11	0.324	25.00	0.316
1.4	QPSK	1	3	24.98	0.315	25.00	0.316	24.94	0.312
1.4	QPSK	1	5	24.94	0.312	24.84	0.305	24.74	0.298
1.4	QPSK	3	0	24.27	0.267	24.23	0.265	24.25	0.266
1.4	QPSK	3	1	24.30	0.269	24.29	0.269	24.27	0.267
1.4	QPSK	3	3	24.28	0.268	24.19	0.262	24.25	0.266
1.4	QPSK	6	0	24.19	0.262	24.27	0.267	24.05	0.254
1.4	16QAM	1	0	24.63	0.290	24.67	0.293	24.52	0.283
1.4	16QAM	1	3	24.42	0.277	24.66	0.292	24.38	0.274
1.4	16QAM	1	5	24.31	0.270	24.58	0.287	24.25	0.266
1.4	16QAM	3	0	23.70	0.234	23.80	0.240	23.72	0.236
1.4	16QAM	3	1	23.54	0.226	23.75	0.237	23.58	0.228
1.4	16QAM	3	3	23.61	0.230	23.77	0.238	23.64	0.231
1.4	16QAM	6	0	23.52	0.225	23.61	0.230	23.56	0.227
1.4	64QAM	1	0	24.21	0.264	24.14	0.259	24.17	0.261
1.4	64QAM	1	3	24.18	0.262	23.96	0.249	24.04	0.254
1.4	64QAM	1	5	23.96	0.249	23.91	0.246	24.05	0.254
1.4	64QAM	3	0	23.27	0.212	23.18	0.208	23.23	0.210
1.4	64QAM	3	1	23.17	0.207	23.17	0.207	23.20	0.209
1.4	64QAM	3	3	23.12	0.205	23.16	0.207	23.16	0.207
1.4	64QAM	6	0	23.11	0.205	22.99	0.199	23.20	0.209



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	22.05	0.160	22.11	0.163	22.09	0.162
10	QPSK	1	25	22.04	0.160	22.09	0.162	22.06	0.161
10	QPSK	1	49	21.90	0.155	22.08	0.161	21.96	0.157
10	QPSK	25	0	21.28	0.134	21.30	0.135	21.23	0.133
10	QPSK	25	12	21.23	0.133	21.27	0.134	21.22	0.132
10	QPSK	25	25	21.20	0.132	21.25	0.133	21.17	0.131
10	QPSK	50	0	21.07	0.128	21.22	0.132	21.09	0.129
10	16QAM	1	0	21.43	0.139	21.65	0.146	21.59	0.144
10	16QAM	1	25	21.42	0.139	21.63	0.146	21.44	0.139
10	16QAM	1	49	21.42	0.139	21.59	0.144	21.33	0.136
10	16QAM	25	0	20.58	0.114	20.81	0.121	20.50	0.112
10	16QAM	25	12	20.56	0.114	20.80	0.120	20.45	0.111
10	16QAM	25	25	20.55	0.114	20.80	0.120	20.44	0.111
10	16QAM	50	0	20.48	0.112	20.71	0.118	20.44	0.111
10	64QAM	1	0	20.39	0.109	20.72	0.118	20.56	0.114
10	64QAM	1	25	20.39	0.109	20.60	0.115	20.51	0.112
10	64QAM	1	49	20.35	0.108	20.52	0.113	20.40	0.110
10	64QAM	25	0	19.63	0.092	19.85	0.097	19.66	0.092
10	64QAM	25	12	19.60	0.091	19.81	0.096	19.62	0.092
10	64QAM	25	25	19.59	0.091	19.77	0.095	19.57	0.091
10	64QAM	50	0	19.49	0.089	19.72	0.094	19.54	0.090



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	21.97	0.157	22.05	0.160	21.94	0.156
5	QPSK	1	12	21.95	0.157	21.91	0.155	21.91	0.155
5	QPSK	1	24	21.81	0.152	21.82	0.152	21.80	0.151
5	QPSK	12	0	21.29	0.135	20.99	0.126	21.20	0.132
5	QPSK	12	7	21.15	0.130	20.96	0.125	21.08	0.128
5	QPSK	12	13	21.12	0.129	21.02	0.126	21.11	0.129
5	QPSK	25	0	21.11	0.129	20.95	0.124	20.98	0.125
5	16QAM	1	0	21.50	0.141	21.31	0.135	21.37	0.137
5	16QAM	1	12	21.52	0.142	21.27	0.134	21.21	0.132
5	16QAM	1	24	21.38	0.137	21.12	0.129	21.08	0.128
5	16QAM	12	0	20.57	0.114	20.54	0.113	20.48	0.112
5	16QAM	12	7	20.60	0.115	20.53	0.113	20.47	0.111
5	16QAM	12	13	20.60	0.115	20.45	0.111	20.44	0.111
5	16QAM	25	0	20.51	0.112	20.45	0.111	20.22	0.105
5	64QAM	1	0	20.55	0.114	20.59	0.115	20.31	0.107
5	64QAM	1	12	20.48	0.112	20.53	0.113	20.26	0.106
5	64QAM	1	24	20.41	0.110	20.52	0.113	20.21	0.105
5	64QAM	12	0	19.63	0.092	19.80	0.095	19.36	0.086
5	64QAM	12	7	19.68	0.093	19.76	0.095	19.43	0.088
5	64QAM	12	13	19.53	0.090	19.70	0.093	19.31	0.085
5	64QAM	25	0	19.54	0.090	19.60	0.091	19.30	0.085



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	22.06	0.161	22.02	0.159	21.92	0.156
3	QPSK	1	8	21.91	0.155	21.98	0.158	21.95	0.157
3	QPSK	1	14	21.83	0.152	21.79	0.151	21.86	0.153
3	QPSK	8	0	21.18	0.131	21.06	0.128	21.08	0.128
3	QPSK	8	4	21.16	0.131	20.93	0.124	21.16	0.131
3	QPSK	8	7	21.14	0.130	21.03	0.127	21.14	0.130
3	QPSK	15	0	21.08	0.128	20.96	0.125	20.99	0.126
3	16QAM	1	0	21.53	0.142	21.36	0.137	21.23	0.133
3	16QAM	1	8	21.48	0.141	21.30	0.135	21.16	0.131
3	16QAM	1	14	21.42	0.139	21.19	0.132	21.13	0.130
3	16QAM	8	0	20.70	0.117	20.50	0.112	20.49	0.112
3	16QAM	8	4	20.65	0.116	20.44	0.111	20.37	0.109
3	16QAM	8	7	20.56	0.114	20.52	0.113	20.33	0.108
3	16QAM	15	0	20.51	0.112	20.40	0.110	20.34	0.108
3	64QAM	1	0	20.66	0.116	20.60	0.115	20.31	0.107
3	64QAM	1	8	20.49	0.112	20.47	0.111	20.27	0.106
3	64QAM	1	14	20.37	0.109	20.51	0.112	20.22	0.105
3	64QAM	8	0	19.68	0.093	19.86	0.097	19.39	0.087
3	64QAM	8	4	19.67	0.093	19.84	0.096	19.40	0.087
3	64QAM	8	7	19.59	0.091	19.70	0.093	19.39	0.087
3	64QAM	15	0	19.64	0.092	19.73	0.094	19.19	0.083



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	22.05	0.160	21.94	0.156	21.99	0.158
1.4	QPSK	1	3	21.97	0.157	21.95	0.157	21.93	0.156
1.4	QPSK	1	5	21.77	0.150	21.84	0.153	21.87	0.154
1.4	QPSK	3	0	21.27	0.134	20.98	0.125	21.13	0.130
1.4	QPSK	3	1	21.22	0.132	21.04	0.127	21.14	0.130
1.4	QPSK	3	3	21.10	0.129	20.99	0.126	21.12	0.129
1.4	QPSK	6	0	21.12	0.129	20.97	0.125	20.97	0.125
1.4	16QAM	1	0	21.50	0.141	21.33	0.136	21.23	0.133
1.4	16QAM	1	3	21.46	0.140	21.31	0.135	21.17	0.131
1.4	16QAM	1	5	21.39	0.138	21.22	0.132	21.13	0.130
1.4	16QAM	3	0	20.65	0.116	20.46	0.111	20.50	0.112
1.4	16QAM	3	1	20.61	0.115	20.46	0.111	20.46	0.111
1.4	16QAM	3	3	20.52	0.113	20.51	0.112	20.40	0.110
1.4	16QAM	6	0	20.51	0.112	20.40	0.110	20.28	0.107
1.4	64QAM	1	0	20.57	0.114	20.57	0.114	20.26	0.106
1.4	64QAM	1	3	20.51	0.112	20.55	0.114	20.22	0.105
1.4	64QAM	1	5	20.43	0.110	20.41	0.110	20.24	0.106
1.4	64QAM	3	0	19.65	0.092	19.73	0.094	19.46	0.088
1.4	64QAM	3	1	19.62	0.092	19.81	0.096	19.33	0.086
1.4	64QAM	3	3	19.54	0.090	19.82	0.096	19.34	0.086
1.4	64QAM	6	0	19.66	0.092	19.61	0.091	19.22	0.084



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	24.98	0.315	25.02	0.318	24.95	0.313
20	QPSK	1	49	24.85	0.305	25.01	0.317	24.92	0.310
20	QPSK	1	99	24.83	0.304	24.93	0.311	24.81	0.303
20	QPSK	50	0	23.99	0.251	24.14	0.259	24.09	0.256
20	QPSK	50	24	23.98	0.250	24.11	0.258	24.09	0.256
20	QPSK	50	50	23.95	0.248	24.08	0.256	24.04	0.254
20	QPSK	100	0	23.85	0.243	23.94	0.248	23.92	0.247
20	16QAM	1	0	24.29	0.269	24.32	0.270	24.38	0.274
20	16QAM	1	49	24.29	0.269	24.22	0.264	24.24	0.265
20	16QAM	1	99	24.19	0.262	24.15	0.260	24.17	0.261
20	16QAM	50	0	23.34	0.216	23.52	0.225	23.57	0.228
20	16QAM	50	24	23.29	0.213	23.50	0.224	23.53	0.225
20	16QAM	50	50	23.24	0.211	23.47	0.222	23.50	0.224
20	16QAM	100	0	23.13	0.206	23.35	0.216	23.47	0.222
20	64QAM	1	0	23.54	0.226	23.76	0.238	24.07	0.255
20	64QAM	1	49	23.50	0.224	23.72	0.236	24.02	0.252
20	64QAM	1	99	23.39	0.218	23.62	0.230	23.99	0.251
20	64QAM	50	0	22.59	0.182	22.72	0.187	23.20	0.209
20	64QAM	50	24	22.55	0.180	22.69	0.186	23.18	0.208
20	64QAM	50	50	22.54	0.179	22.67	0.185	23.14	0.206
20	64QAM	100	0	22.41	0.174	22.58	0.181	23.06	0.202



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	24.88	0.308	24.87	0.307	24.77	0.300
15	QPSK	1	37	24.72	0.296	24.84	0.305	24.80	0.302
15	QPSK	1	74	24.78	0.301	24.75	0.299	24.71	0.296
15	QPSK	36	0	24.02	0.252	23.80	0.240	24.14	0.259
15	QPSK	36	20	23.92	0.247	23.88	0.244	23.99	0.251
15	QPSK	36	39	23.93	0.247	23.75	0.237	24.01	0.252
15	QPSK	75	0	23.99	0.251	23.66	0.232	23.98	0.250
15	16QAM	1	0	24.31	0.270	24.28	0.268	24.28	0.268
15	16QAM	1	37	24.35	0.272	24.13	0.259	24.31	0.270
15	16QAM	1	74	24.14	0.259	24.04	0.254	24.18	0.262
15	16QAM	36	0	23.45	0.221	23.32	0.215	23.45	0.221
15	16QAM	36	20	23.43	0.220	23.31	0.214	23.49	0.223
15	16QAM	36	39	23.31	0.214	23.25	0.211	23.47	0.222
15	16QAM	75	0	23.27	0.212	23.17	0.207	23.41	0.219
15	64QAM	1	0	23.75	0.237	23.56	0.227	23.95	0.248
15	64QAM	1	37	23.63	0.231	23.53	0.225	23.75	0.237
15	64QAM	1	74	23.53	0.225	23.45	0.221	23.74	0.237
15	64QAM	36	0	22.72	0.187	22.74	0.188	22.87	0.194
15	64QAM	36	20	22.81	0.191	22.67	0.185	22.88	0.194
15	64QAM	36	39	22.75	0.188	22.58	0.181	22.86	0.193
15	64QAM	75	0	22.59	0.182	22.56	0.180	22.88	0.194



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	24.88	0.308	24.91	0.310	24.89	0.308
10	QPSK	1	25	24.77	0.300	24.87	0.307	24.76	0.299
10	QPSK	1	49	24.73	0.297	24.65	0.292	24.66	0.292
10	QPSK	25	0	23.98	0.250	23.88	0.244	24.16	0.261
10	QPSK	25	12	24.02	0.252	23.87	0.244	24.09	0.256
10	QPSK	25	25	23.91	0.246	23.88	0.244	24.01	0.252
10	QPSK	50	0	24.00	0.251	23.75	0.237	24.08	0.256
10	16QAM	1	0	24.36	0.273	24.19	0.262	24.34	0.272
10	16QAM	1	25	24.40	0.275	24.05	0.254	24.34	0.272
10	16QAM	1	49	24.18	0.262	24.09	0.256	24.19	0.262
10	16QAM	25	0	23.33	0.215	23.34	0.216	23.45	0.221
10	16QAM	25	12	23.34	0.216	23.30	0.214	23.46	0.222
10	16QAM	25	25	23.29	0.213	23.34	0.216	23.45	0.221
10	16QAM	50	0	23.22	0.210	23.24	0.211	23.47	0.222
10	64QAM	1	0	23.75	0.237	23.68	0.233	23.96	0.249
10	64QAM	1	25	23.71	0.235	23.62	0.230	23.78	0.239
10	64QAM	1	49	23.50	0.224	23.55	0.226	23.84	0.242
10	64QAM	25	0	22.76	0.189	22.68	0.185	22.86	0.193
10	64QAM	25	12	22.78	0.190	22.71	0.187	22.89	0.195
10	64QAM	25	25	22.79	0.190	22.69	0.186	22.83	0.192
10	64QAM	50	0	22.68	0.185	22.59	0.182	22.81	0.191



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	24.92	0.310	24.86	0.306	24.78	0.301
5	QPSK	1	12	24.83	0.304	24.78	0.301	24.82	0.303
5	QPSK	1	24	24.73	0.297	24.63	0.290	24.73	0.297
5	QPSK	12	0	23.98	0.250	23.93	0.247	24.09	0.256
5	QPSK	12	7	23.90	0.245	23.85	0.243	24.01	0.252
5	QPSK	12	13	23.99	0.251	23.86	0.243	24.02	0.252
5	QPSK	25	0	24.00	0.251	23.72	0.236	24.05	0.254
5	16QAM	1	0	24.39	0.275	24.15	0.260	24.28	0.268
5	16QAM	1	12	24.41	0.276	24.16	0.261	24.30	0.269
5	16QAM	1	24	24.15	0.260	24.03	0.253	24.23	0.265
5	16QAM	12	0	23.44	0.221	23.33	0.215	23.49	0.223
5	16QAM	12	7	23.35	0.216	23.27	0.212	23.54	0.226
5	16QAM	12	13	23.28	0.213	23.35	0.216	23.52	0.225
5	16QAM	25	0	23.26	0.212	23.23	0.210	23.48	0.223
5	64QAM	1	0	23.72	0.236	23.64	0.231	23.90	0.245
5	64QAM	1	12	23.62	0.230	23.63	0.231	23.79	0.239
5	64QAM	1	24	23.56	0.227	23.48	0.223	23.81	0.240
5	64QAM	12	0	22.76	0.189	22.70	0.186	22.90	0.195
5	64QAM	12	7	22.73	0.187	22.65	0.184	22.93	0.196
5	64QAM	12	13	22.78	0.190	22.58	0.181	22.81	0.191
5	64QAM	25	0	22.61	0.182	22.54	0.179	22.79	0.190



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	21.84	0.153	21.89	0.155	21.76	0.150
10	QPSK	1	25	21.72	0.149	21.85	0.153	21.63	0.146
10	QPSK	1	49	21.71	0.148	21.82	0.152	21.58	0.144
10	QPSK	25	0	20.98	0.125	21.01	0.126	20.93	0.124
10	QPSK	25	12	20.95	0.124	20.98	0.125	20.91	0.123
10	QPSK	25	25	20.91	0.123	20.96	0.125	20.86	0.122
10	QPSK	50	0	20.96	0.125	20.92	0.124	20.77	0.119
10	16QAM	1	0	21.47	0.140	21.36	0.137	21.22	0.132
10	16QAM	1	25	21.34	0.136	21.32	0.136	21.18	0.131
10	16QAM	1	49	21.31	0.135	21.27	0.134	21.12	0.129
10	16QAM	25	0	20.49	0.112	20.51	0.112	20.35	0.108
10	16QAM	25	12	20.48	0.112	20.50	0.112	20.32	0.108
10	16QAM	25	25	20.44	0.111	20.46	0.111	20.29	0.107
10	16QAM	50	0	20.36	0.109	20.39	0.109	20.16	0.104
10	64QAM	1	0	20.84	0.121	20.96	0.125	20.64	0.116
10	64QAM	1	25	20.81	0.121	20.94	0.124	20.58	0.114
10	64QAM	1	49	20.67	0.117	20.83	0.121	20.53	0.113
10	64QAM	25	0	19.96	0.099	19.92	0.098	19.64	0.092
10	64QAM	25	12	19.96	0.099	19.91	0.098	19.62	0.092
10	64QAM	25	25	19.93	0.098	19.91	0.098	19.58	0.091
10	64QAM	50	0	19.92	0.098	19.80	0.095	19.45	0.088



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	21.78	0.151	21.76	0.150	21.76	0.150
5	QPSK	1	12	21.67	0.147	21.72	0.149	21.73	0.149
5	QPSK	1	24	21.61	0.145	21.64	0.146	21.64	0.146
5	QPSK	12	0	20.85	0.122	20.91	0.123	21.02	0.126
5	QPSK	12	7	20.90	0.123	20.95	0.124	20.87	0.122
5	QPSK	12	13	20.83	0.121	20.82	0.121	20.85	0.122
5	QPSK	25	0	20.65	0.116	20.80	0.120	20.73	0.118
5	16QAM	1	0	21.14	0.130	21.07	0.128	21.17	0.131
5	16QAM	1	12	21.17	0.131	21.02	0.126	21.03	0.127
5	16QAM	1	24	21.12	0.129	20.82	0.121	20.95	0.124
5	16QAM	12	0	20.40	0.110	20.22	0.105	20.13	0.103
5	16QAM	12	7	20.34	0.108	20.16	0.104	20.14	0.103
5	16QAM	12	13	20.34	0.108	20.23	0.105	20.11	0.103
5	16QAM	25	0	20.30	0.107	20.01	0.100	19.97	0.099
5	64QAM	1	0	20.64	0.116	20.59	0.115	20.65	0.116
5	64QAM	1	12	20.49	0.112	20.47	0.111	20.56	0.114
5	64QAM	1	24	20.57	0.114	20.38	0.109	20.46	0.111
5	64QAM	12	0	19.77	0.095	19.59	0.091	19.78	0.095
5	64QAM	12	7	19.66	0.092	19.53	0.090	19.71	0.094
5	64QAM	12	13	19.76	0.095	19.50	0.089	19.55	0.090
5	64QAM	25	0	19.63	0.092	19.50	0.089	19.52	0.090



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	21.83	0.152	21.70	0.148	21.74	0.149
3	QPSK	1	8	21.58	0.144	21.73	0.149	21.75	0.150
3	QPSK	1	14	21.58	0.144	21.58	0.144	21.60	0.145
3	QPSK	8	0	20.84	0.121	20.96	0.125	20.96	0.125
3	QPSK	8	4	20.81	0.121	20.82	0.121	20.95	0.124
3	QPSK	8	7	20.79	0.120	20.90	0.123	20.92	0.124
3	QPSK	15	0	20.70	0.117	20.83	0.121	20.71	0.118
3	16QAM	1	0	21.16	0.131	21.03	0.127	21.13	0.130
3	16QAM	1	8	21.13	0.130	21.05	0.127	21.01	0.126
3	16QAM	1	14	21.21	0.132	20.89	0.123	20.92	0.124
3	16QAM	8	0	20.45	0.111	20.22	0.105	20.16	0.104
3	16QAM	8	4	20.33	0.108	20.19	0.104	20.13	0.103
3	16QAM	8	7	20.36	0.109	20.22	0.105	20.05	0.101
3	16QAM	15	0	20.23	0.105	19.99	0.100	20.04	0.101
3	64QAM	1	0	20.69	0.117	20.59	0.115	20.62	0.115
3	64QAM	1	8	20.60	0.115	20.47	0.111	20.52	0.113
3	64QAM	1	14	20.56	0.114	20.34	0.108	20.48	0.112
3	64QAM	8	0	19.72	0.094	19.66	0.092	19.64	0.092
3	64QAM	8	4	19.68	0.093	19.59	0.091	19.63	0.092
3	64QAM	8	7	19.76	0.095	19.51	0.089	19.57	0.091
3	64QAM	15	0	19.75	0.094	19.51	0.089	19.47	0.089



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	21.75	0.150	21.65	0.146	21.69	0.148
1.4	QPSK	1	3	21.56	0.143	21.68	0.147	21.67	0.147
1.4	QPSK	1	5	21.54	0.143	21.66	0.147	21.61	0.145
1.4	QPSK	3	0	20.83	0.121	20.95	0.124	20.91	0.123
1.4	QPSK	3	1	20.82	0.121	20.82	0.121	20.96	0.125
1.4	QPSK	3	3	20.74	0.119	20.87	0.122	20.91	0.123
1.4	QPSK	6	0	20.60	0.115	20.69	0.117	20.72	0.118
1.4	16QAM	1	0	21.19	0.132	21.02	0.126	21.13	0.130
1.4	16QAM	1	3	21.23	0.133	20.97	0.125	21.10	0.129
1.4	16QAM	1	5	21.11	0.129	20.90	0.123	21.01	0.126
1.4	16QAM	3	0	20.48	0.112	20.13	0.103	20.11	0.103
1.4	16QAM	3	1	20.40	0.110	20.21	0.105	20.20	0.105
1.4	16QAM	3	3	20.34	0.108	20.20	0.105	20.06	0.101
1.4	16QAM	6	0	20.23	0.105	19.95	0.099	19.93	0.098
1.4	64QAM	1	0	20.74	0.119	20.65	0.116	20.68	0.117
1.4	64QAM	1	3	20.50	0.112	20.49	0.112	20.60	0.115
1.4	64QAM	1	5	20.50	0.112	20.38	0.109	20.45	0.111
1.4	64QAM	3	0	19.82	0.096	19.61	0.091	19.74	0.094
1.4	64QAM	3	1	19.73	0.094	19.61	0.091	19.68	0.093
1.4	64QAM	3	3	19.72	0.094	19.58	0.091	19.64	0.092
1.4	64QAM	6	0	19.64	0.092	19.51	0.089	19.51	0.089



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	/	/	22.09	0.162	/	/
10	QPSK	1	25	/	/	22.07	0.161	/	/
10	QPSK	1	49	/	/	22.04	0.160	/	/
10	QPSK	25	0	/	/	21.23	0.133	/	/
10	QPSK	25	12	/	/	21.22	0.132	/	/
10	QPSK	25	25	/	/	21.19	0.132	/	/
10	QPSK	50	0	/	/	21.17	0.131	/	/
10	16QAM	1	0	/	/	21.51	0.142	/	/
10	16QAM	1	25	/	/	21.42	0.139	/	/
10	16QAM	1	49	/	/	21.32	0.136	/	/
10	16QAM	25	0	/	/	20.68	0.117	/	/
10	16QAM	25	12	/	/	20.65	0.116	/	/
10	16QAM	25	25	/	/	20.61	0.115	/	/
10	16QAM	50	0	/	/	20.53	0.113	/	/
10	64QAM	1	0	/	/	21.15	0.130	/	/
10	64QAM	1	25	/	/	21.12	0.129	/	/
10	64QAM	1	49	/	/	20.99	0.126	/	/
10	64QAM	25	0	/	/	19.77	0.095	/	/
10	64QAM	25	12	/	/	19.72	0.094	/	/
10	64QAM	25	25	/	/	19.57	0.091	/	/
10	64QAM	50	0	/	/	19.65	0.092	/	/



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	22.08	0.161	22.00	0.158	21.97	0.157
5	QPSK	1	12	21.96	0.157	21.99	0.158	22.02	0.159
5	QPSK	1	24	21.84	0.153	21.86	0.153	21.92	0.156
5	QPSK	12	0	20.88	0.122	20.82	0.121	21.00	0.126
5	QPSK	12	7	20.82	0.121	20.86	0.122	20.85	0.122
5	QPSK	12	13	20.77	0.119	20.84	0.121	20.94	0.124
5	QPSK	25	0	20.66	0.116	20.73	0.118	20.66	0.116
5	16QAM	1	0	21.15	0.130	21.13	0.130	21.16	0.131
5	16QAM	1	12	21.13	0.130	20.89	0.123	20.96	0.125
5	16QAM	1	24	21.12	0.129	20.85	0.122	21.02	0.126
5	16QAM	12	0	20.37	0.109	20.14	0.103	20.07	0.102
5	16QAM	12	7	20.43	0.110	20.16	0.104	20.04	0.101
5	16QAM	12	13	20.38	0.109	20.14	0.103	20.14	0.103
5	16QAM	25	0	20.25	0.106	19.92	0.098	19.93	0.098
5	64QAM	1	0	20.65	0.116	20.54	0.113	20.53	0.113
5	64QAM	1	12	20.60	0.115	20.41	0.110	20.52	0.113
5	64QAM	1	24	20.44	0.111	20.45	0.111	20.47	0.111
5	64QAM	12	0	19.74	0.094	19.64	0.092	19.63	0.092
5	64QAM	12	7	19.66	0.092	19.53	0.090	19.64	0.092
5	64QAM	12	13	19.70	0.093	19.56	0.090	19.59	0.091
5	64QAM	25	0	19.59	0.091	19.56	0.090	19.45	0.088



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	24.03	0.253	24.10	0.257	24.05	0.254
20	QPSK	1	49	23.91	0.246	23.97	0.249	23.96	0.249
20	QPSK	1	99	23.80	0.240	23.90	0.245	23.82	0.241
20	QPSK	50	0	23.07	0.203	23.31	0.214	23.22	0.210
20	QPSK	50	24	22.96	0.198	23.18	0.208	23.26	0.212
20	QPSK	50	50	22.96	0.198	23.17	0.207	23.22	0.210
20	QPSK	100	0	23.02	0.200	23.22	0.210	23.18	0.208
20	16QAM	1	0	23.43	0.220	23.43	0.220	23.52	0.225
20	16QAM	1	49	23.42	0.220	23.41	0.219	23.46	0.222
20	16QAM	1	99	23.41	0.219	23.39	0.218	23.33	0.215
20	16QAM	50	0	22.70	0.186	22.71	0.187	22.64	0.184
20	16QAM	50	24	22.68	0.185	22.67	0.185	22.64	0.184
20	16QAM	50	50	22.67	0.185	22.65	0.184	22.61	0.182
20	16QAM	100	0	22.63	0.183	22.61	0.182	22.51	0.178
20	64QAM	1	0	23.03	0.201	23.09	0.204	23.12	0.205
20	64QAM	1	49	22.95	0.197	22.99	0.199	23.09	0.204
20	64QAM	1	99	22.88	0.194	22.85	0.193	23.01	0.200
20	64QAM	50	0	22.19	0.166	21.94	0.156	22.13	0.163
20	64QAM	50	24	22.19	0.166	21.93	0.156	22.13	0.163
20	64QAM	50	50	22.18	0.165	21.93	0.156	22.12	0.163
20	64QAM	100	0	22.05	0.160	21.82	0.152	22.00	0.158



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				132047		132322		132597	
Frequency (MHz)				1717.5		1745		1772.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	23.95	0.248	24.00	0.251	24.12	0.258
15	QPSK	1	37	23.91	0.246	23.81	0.240	24.13	0.259
15	QPSK	1	74	23.71	0.235	23.75	0.237	24.01	0.252
15	QPSK	36	0	23.17	0.207	23.09	0.204	23.45	0.221
15	QPSK	36	20	22.99	0.199	23.08	0.203	23.42	0.220
15	QPSK	36	39	22.99	0.199	22.95	0.197	23.24	0.211
15	QPSK	75	0	23.00	0.200	22.89	0.195	23.27	0.212
15	16QAM	1	0	23.35	0.216	23.37	0.217	23.66	0.232
15	16QAM	1	37	23.16	0.207	23.31	0.214	23.68	0.233
15	16QAM	1	74	23.17	0.207	23.22	0.210	23.59	0.229
15	16QAM	36	0	22.34	0.171	22.59	0.182	22.80	0.191
15	16QAM	36	20	22.42	0.175	22.44	0.175	22.72	0.187
15	16QAM	36	39	22.30	0.170	22.49	0.177	22.75	0.188
15	16QAM	75	0	22.10	0.162	22.48	0.177	22.68	0.185
15	64QAM	1	0	22.83	0.192	23.02	0.200	23.22	0.210
15	64QAM	1	37	22.67	0.185	22.91	0.195	23.09	0.204
15	64QAM	1	74	22.50	0.178	22.80	0.191	23.03	0.201
15	64QAM	36	0	21.83	0.152	22.12	0.163	22.23	0.167
15	64QAM	36	20	21.83	0.152	22.12	0.163	22.22	0.167
15	64QAM	36	39	21.79	0.151	22.14	0.164	22.19	0.166
15	64QAM	75	0	21.83	0.152	22.18	0.165	22.10	0.162



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				132022		132322		132622	
Frequency (MHz)				1715		1745		1775	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	23.91	0.246	24.01	0.252	24.08	0.256
10	QPSK	1	25	23.87	0.244	23.81	0.240	24.12	0.258
10	QPSK	1	49	23.84	0.242	23.79	0.239	23.91	0.246
10	QPSK	25	0	23.06	0.202	23.02	0.200	23.45	0.221
10	QPSK	25	12	23.05	0.202	22.99	0.199	23.37	0.217
10	QPSK	25	25	23.02	0.200	22.91	0.195	23.34	0.216
10	QPSK	50	0	23.00	0.200	22.91	0.195	23.38	0.218
10	16QAM	1	0	23.30	0.214	23.34	0.216	23.73	0.236
10	16QAM	1	25	23.15	0.207	23.20	0.209	23.64	0.231
10	16QAM	1	49	23.19	0.208	23.30	0.214	23.63	0.231
10	16QAM	25	0	22.41	0.174	22.50	0.178	22.73	0.187
10	16QAM	25	12	22.28	0.169	22.54	0.179	22.66	0.185
10	16QAM	25	25	22.25	0.168	22.52	0.179	22.74	0.188
10	16QAM	50	0	22.21	0.166	22.47	0.177	22.72	0.187
10	64QAM	1	0	22.73	0.187	22.94	0.197	23.14	0.206
10	64QAM	1	25	22.73	0.187	22.92	0.196	23.13	0.206
10	64QAM	1	49	22.60	0.182	22.79	0.190	22.99	0.199
10	64QAM	25	0	21.83	0.152	22.22	0.167	22.23	0.167
10	64QAM	25	12	21.85	0.153	22.23	0.167	22.23	0.167
10	64QAM	25	25	21.80	0.151	22.20	0.166	22.28	0.169
10	64QAM	50	0	21.88	0.154	22.22	0.167	22.13	0.163



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	24.02	0.252	23.97	0.249	24.11	0.258
5	QPSK	1	12	23.88	0.244	23.90	0.245	24.13	0.259
5	QPSK	1	24	23.86	0.243	23.78	0.239	23.98	0.250
5	QPSK	12	0	23.11	0.205	23.05	0.202	23.41	0.219
5	QPSK	12	7	22.99	0.199	23.03	0.201	23.35	0.216
5	QPSK	12	13	23.04	0.201	23.00	0.200	23.31	0.214
5	QPSK	25	0	22.86	0.193	22.98	0.199	23.31	0.214
5	16QAM	1	0	23.23	0.210	23.37	0.217	23.66	0.232
5	16QAM	1	12	23.10	0.204	23.26	0.212	23.60	0.229
5	16QAM	1	24	23.13	0.206	23.21	0.209	23.61	0.230
5	16QAM	12	0	22.37	0.173	22.47	0.177	22.78	0.190
5	16QAM	12	7	22.31	0.170	22.51	0.178	22.78	0.190
5	16QAM	12	13	22.34	0.171	22.52	0.179	22.65	0.184
5	16QAM	25	0	22.22	0.167	22.52	0.179	22.69	0.186
5	64QAM	1	0	22.85	0.193	23.04	0.201	23.23	0.210
5	64QAM	1	12	22.70	0.186	22.99	0.199	23.10	0.204
5	64QAM	1	24	22.56	0.180	22.93	0.196	23.07	0.203
5	64QAM	12	0	21.91	0.155	22.17	0.165	22.23	0.167
5	64QAM	12	7	21.78	0.151	22.21	0.166	22.24	0.167
5	64QAM	12	13	21.79	0.151	22.24	0.167	22.25	0.168
5	64QAM	25	0	21.89	0.155	22.15	0.164	22.14	0.164



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	24.02	0.252	23.95	0.248	24.13	0.259
3	QPSK	1	8	23.83	0.242	23.87	0.244	24.01	0.252
3	QPSK	1	14	23.84	0.242	23.73	0.236	23.92	0.247
3	QPSK	8	0	23.11	0.205	23.02	0.200	23.42	0.220
3	QPSK	8	4	23.08	0.203	23.06	0.202	23.36	0.217
3	QPSK	8	7	23.01	0.200	22.92	0.196	23.27	0.212
3	QPSK	15	0	22.96	0.198	22.97	0.198	23.26	0.212
3	16QAM	1	0	23.27	0.212	23.33	0.215	23.61	0.230
3	16QAM	1	8	23.13	0.206	23.30	0.214	23.62	0.230
3	16QAM	1	14	23.14	0.206	23.31	0.214	23.59	0.229
3	16QAM	8	0	22.39	0.173	22.53	0.179	22.78	0.190
3	16QAM	8	4	22.40	0.174	22.48	0.177	22.80	0.191
3	16QAM	8	7	22.35	0.172	22.46	0.176	22.77	0.189
3	16QAM	15	0	22.22	0.167	22.38	0.173	22.67	0.185
3	64QAM	1	0	22.86	0.193	22.97	0.198	23.21	0.209
3	64QAM	1	8	22.66	0.185	22.97	0.198	23.01	0.200
3	64QAM	1	14	22.62	0.183	22.88	0.194	23.03	0.201
3	64QAM	8	0	21.91	0.155	22.12	0.163	22.31	0.170
3	64QAM	8	4	21.83	0.152	22.15	0.164	22.27	0.169
3	64QAM	8	7	21.75	0.150	22.21	0.166	22.21	0.166
3	64QAM	15	0	21.80	0.151	22.11	0.163	22.04	0.160



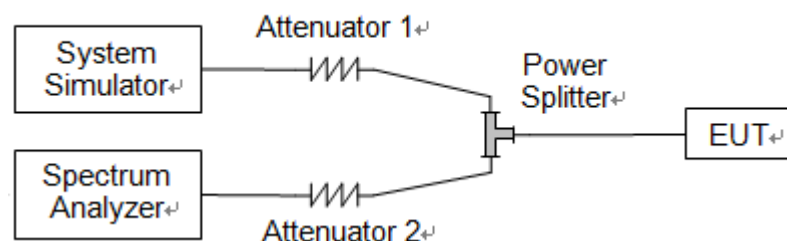
LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131979		132322		132665	
Frequency (MHz)				1710.7		1745		1779.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	23.99	0.251	23.92	0.247	24.13	0.259
1.4	QPSK	1	3	23.86	0.243	23.84	0.242	24.12	0.258
1.4	QPSK	1	5	23.81	0.240	23.82	0.241	23.96	0.249
1.4	QPSK	3	0	23.10	0.204	23.01	0.200	23.44	0.221
1.4	QPSK	3	1	23.11	0.205	23.00	0.200	23.33	0.215
1.4	QPSK	3	3	23.03	0.201	22.91	0.195	23.31	0.214
1.4	QPSK	6	0	22.87	0.194	22.89	0.195	23.28	0.213
1.4	16QAM	1	0	23.33	0.215	23.38	0.218	23.59	0.229
1.4	16QAM	1	3	23.14	0.206	23.29	0.213	23.58	0.228
1.4	16QAM	1	5	23.11	0.205	23.20	0.209	23.54	0.226
1.4	16QAM	3	0	22.36	0.172	22.51	0.178	22.78	0.190
1.4	16QAM	3	1	22.28	0.169	22.54	0.179	22.80	0.191
1.4	16QAM	3	3	22.31	0.170	22.57	0.181	22.77	0.189
1.4	16QAM	6	0	22.15	0.164	22.47	0.177	22.65	0.184
1.4	64QAM	1	0	22.86	0.193	23.00	0.200	23.14	0.206
1.4	64QAM	1	3	22.65	0.184	22.92	0.196	23.09	0.204
1.4	64QAM	1	5	22.57	0.181	22.89	0.195	23.04	0.201
1.4	64QAM	3	0	21.83	0.152	22.27	0.169	22.24	0.167
1.4	64QAM	3	1	21.82	0.152	22.18	0.165	22.29	0.169
1.4	64QAM	3	3	21.85	0.153	22.12	0.163	22.21	0.166
1.4	64QAM	6	0	21.86	0.153	22.21	0.166	22.08	0.161

2.2. Occupied Bandwidth

2.2.1. Requirement

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

2.2.2. Test Description



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

2.2.3. Test Procedure

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

2.2.4. Test Result



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B2	1.4	Low	18607	1850.7	QPSK	1.1019	1.3514	PASS
B2	1.4	Low	18607	1850.7	16QAM	1.1046	1.3800	PASS
B2	1.4	Low	18607	1850.7	64QAM	1.0978	1.3541	PASS
B2	1.4	Mid	18900	1880	QPSK	1.1040	1.3714	PASS
B2	1.4	Mid	18900	1880	16QAM	1.1139	1.3514	PASS
B2	1.4	Mid	18900	1880	64QAM	1.1021	1.3585	PASS
B2	1.4	High	19193	1909.3	QPSK	1.1018	1.3610	PASS
B2	1.4	High	19193	1909.3	16QAM	1.1024	1.3572	PASS
B2	1.4	High	19193	1909.3	64QAM	1.1056	1.3644	PASS
B2	3	Low	18615	1851.5	QPSK	2.7082	3.0711	PASS
B2	3	Low	18615	1851.5	16QAM	2.7110	3.0635	PASS
B2	3	Low	18615	1851.5	64QAM	2.7137	3.0427	PASS
B2	3	Mid	18900	1880	QPSK	2.7172	3.1177	PASS
B2	3	Mid	18900	1880	16QAM	2.7107	3.0658	PASS
B2	3	Mid	18900	1880	64QAM	2.7129	3.0413	PASS
B2	3	High	19185	1908.5	QPSK	2.7152	3.0721	PASS
B2	3	High	19185	1908.5	16QAM	2.7109	3.0487	PASS
B2	3	High	19185	1908.5	64QAM	2.7128	3.0638	PASS
B2	5	Low	18625	1852.5	QPSK	4.4839	4.9117	PASS
B2	5	Low	18625	1852.5	16QAM	4.4787	5.0377	PASS
B2	5	Low	18625	1852.5	64QAM	4.4788	4.9297	PASS
B2	5	Mid	18900	1880	QPSK	4.4903	5.0042	PASS
B2	5	Mid	18900	1880	16QAM	4.4824	5.0417	PASS
B2	5	Mid	18900	1880	64QAM	4.4890	4.9881	PASS
B2	5	High	19175	1907.5	QPSK	4.4850	4.9949	PASS
B2	5	High	19175	1907.5	16QAM	4.4858	5.0264	PASS
B2	5	High	19175	1907.5	64QAM	4.4700	5.0093	PASS
B2	10	Low	18650	1855	QPSK	8.9678	9.8022	PASS
B2	10	Low	18650	1855	16QAM	8.9550	9.7746	PASS
B2	10	Low	18650	1855	64QAM	8.9735	9.7722	PASS
B2	10	Mid	18900	1880	QPSK	8.9501	9.8211	PASS
B2	10	Mid	18900	1880	16QAM	8.9452	9.8620	PASS
B2	10	Mid	18900	1880	64QAM	8.9549	9.8365	PASS
B2	10	High	19150	1905	QPSK	8.9659	9.7425	PASS
B2	10	High	19150	1905	16QAM	8.9476	9.9140	PASS



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B2	10	High	19150	1905	64QAM	8.9393	9.8195	PASS
B2	15	Low	18675	1857.5	QPSK	13.440	14.577	PASS
B2	15	Low	18675	1857.5	16QAM	13.430	14.605	PASS
B2	15	Low	18675	1857.5	64QAM	13.419	14.636	PASS
B2	15	Mid	18900	1880	QPSK	13.413	14.657	PASS
B2	15	Mid	18900	1880	16QAM	13.387	14.488	PASS
B2	15	Mid	18900	1880	64QAM	13.405	14.530	PASS
B2	15	High	19125	1902.5	QPSK	13.395	14.528	PASS
B2	15	High	19125	1902.5	16QAM	13.380	14.517	PASS
B2	15	High	19125	1902.5	64QAM	13.354	14.527	PASS
B2	20	Low	18700	1860	QPSK	17.929	19.434	PASS
B2	20	Low	18700	1860	16QAM	17.915	19.328	PASS
B2	20	Low	18700	1860	64QAM	17.897	19.418	PASS
B2	20	Mid	18900	1880	QPSK	17.876	19.184	PASS
B2	20	Mid	18900	1880	16QAM	17.860	19.369	PASS
B2	20	Mid	18900	1880	64QAM	17.856	19.119	PASS
B2	20	High	19100	1900	QPSK	17.820	19.217	PASS
B2	20	High	19100	1900	16QAM	17.843	19.269	PASS
B2	20	High	19100	1900	64QAM	17.822	19.139	PASS
B4	1.4	Low	19957	1710.7	QPSK	1.0987	1.3500	PASS
B4	1.4	Low	19957	1710.7	16QAM	1.1031	1.3601	PASS
B4	1.4	Low	19957	1710.7	64QAM	1.1058	1.3613	PASS
B4	1.4	Mid	20175	1732.5	QPSK	1.1026	1.3807	PASS
B4	1.4	Mid	20175	1732.5	16QAM	1.1098	1.3715	PASS
B4	1.4	Mid	20175	1732.5	64QAM	1.1036	1.3640	PASS
B4	1.4	High	20393	1754.3	QPSK	1.1023	1.3597	PASS
B4	1.4	High	20393	1754.3	16QAM	1.1099	1.3775	PASS
B4	1.4	High	20393	1754.3	64QAM	1.1073	1.3601	PASS
B4	3	Low	19965	1711.5	QPSK	2.7057	3.1044	PASS
B4	3	Low	19965	1711.5	16QAM	2.7188	3.0532	PASS
B4	3	Low	19965	1711.5	64QAM	2.7156	3.0653	PASS
B4	3	Mid	20175	1732.5	QPSK	2.7175	3.0707	PASS
B4	3	Mid	20175	1732.5	16QAM	2.7167	3.0804	PASS
B4	3	Mid	20175	1732.5	64QAM	2.7143	3.1006	PASS
B4	3	High	20385	1753.5	QPSK	2.7057	3.0378	PASS
B4	3	High	20385	1753.5	16QAM	2.7135	3.0874	PASS
B4	3	High	20385	1753.5	64QAM	2.7100	3.0596	PASS
B4	5	Low	19975	1712.5	QPSK	4.4769	4.9612	PASS



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B4	5	Low	19975	1712.5	16QAM	4.4792	4.9749	PASS
B4	5	Low	19975	1712.5	64QAM	4.4843	4.9944	PASS
B4	5	Mid	20175	1732.5	QPSK	4.4860	4.9966	PASS
B4	5	Mid	20175	1732.5	16QAM	4.4798	5.0016	PASS
B4	5	Mid	20175	1732.5	64QAM	4.4852	5.0382	PASS
B4	5	High	20375	1752.5	QPSK	4.4774	4.9370	PASS
B4	5	High	20375	1752.5	16QAM	4.4786	4.9664	PASS
B4	5	High	20375	1752.5	64QAM	4.4769	4.9460	PASS
B4	10	Low	20000	1715	QPSK	8.9511	9.7345	PASS
B4	10	Low	20000	1715	16QAM	8.9749	9.8470	PASS
B4	10	Low	20000	1715	64QAM	8.9584	9.8575	PASS
B4	10	Mid	20175	1732.5	QPSK	8.9414	9.8134	PASS
B4	10	Mid	20175	1732.5	16QAM	8.9707	9.7758	PASS
B4	10	Mid	20175	1732.5	64QAM	8.9492	9.7757	PASS
B4	10	High	20350	1750	QPSK	8.9643	9.8461	PASS
B4	10	High	20350	1750	16QAM	8.9714	9.8546	PASS
B4	10	High	20350	1750	64QAM	8.9554	9.8489	PASS
B4	15	Low	20025	1717.5	QPSK	13.441	14.872	PASS
B4	15	Low	20025	1717.5	16QAM	13.431	14.472	PASS
B4	15	Low	20025	1717.5	64QAM	13.447	14.646	PASS
B4	15	Mid	20175	1732.5	QPSK	13.412	14.583	PASS
B4	15	Mid	20175	1732.5	16QAM	13.411	14.590	PASS
B4	15	Mid	20175	1732.5	64QAM	13.446	14.548	PASS
B4	15	High	20325	1747.5	QPSK	13.443	14.829	PASS
B4	15	High	20325	1747.5	16QAM	13.434	14.669	PASS
B4	15	High	20325	1747.5	64QAM	13.453	14.630	PASS
B4	20	Low	20050	1720	QPSK	17.918	19.273	PASS
B4	20	Low	20050	1720	16QAM	17.870	19.537	PASS
B4	20	Low	20050	1720	64QAM	17.900	19.403	PASS
B4	20	Mid	20175	1732.5	QPSK	17.882	19.154	PASS
B4	20	Mid	20175	1732.5	16QAM	17.878	19.285	PASS
B4	20	Mid	20175	1732.5	64QAM	17.876	19.332	PASS
B4	20	High	20300	1745	QPSK	17.893	19.510	PASS
B4	20	High	20300	1745	16QAM	17.899	19.324	PASS
B4	20	High	20300	1745	64QAM	17.915	19.302	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	1.0979	1.3219	PASS
B5	1.4	Low	20407	824.7	16QAM	1.1072	1.3805	PASS
B5	1.4	Low	20407	824.7	64QAM	1.1112	1.3606	PASS
B5	1.4	Mid	20525	836.5	QPSK	1.1037	1.3778	PASS
B5	1.4	Mid	20525	836.5	16QAM	1.1046	1.3771	PASS
B5	1.4	Mid	20525	836.5	64QAM	1.1053	1.3417	PASS
B5	1.4	High	20643	848.3	QPSK	1.1038	1.3403	PASS
B5	1.4	High	20643	848.3	16QAM	1.1149	1.3814	PASS
B5	1.4	High	20643	848.3	64QAM	1.1085	1.3534	PASS
B5	3	Low	20415	825.5	QPSK	2.7159	3.0669	PASS
B5	3	Low	20415	825.5	16QAM	2.7166	3.0501	PASS
B5	3	Low	20415	825.5	64QAM	2.7150	3.0651	PASS
B5	3	Mid	20525	836.5	QPSK	2.7139	3.0595	PASS
B5	3	Mid	20525	836.5	16QAM	2.7129	3.0708	PASS
B5	3	Mid	20525	836.5	64QAM	2.7214	3.0573	PASS
B5	3	High	20635	847.5	QPSK	2.7139	3.0315	PASS
B5	3	High	20635	847.5	16QAM	2.7250	3.0713	PASS
B5	3	High	20635	847.5	64QAM	2.7176	3.0479	PASS
B5	5	Low	20425	826.5	QPSK	4.4805	4.9915	PASS
B5	5	Low	20425	826.5	16QAM	4.4785	5.0619	PASS
B5	5	Low	20425	826.5	64QAM	4.4729	5.0062	PASS
B5	5	Mid	20525	836.5	QPSK	4.4778	5.0826	PASS
B5	5	Mid	20525	836.5	16QAM	4.4847	5.0190	PASS
B5	5	Mid	20525	836.5	64QAM	4.4783	5.0259	PASS
B5	5	High	20625	846.5	QPSK	4.4921	4.9831	PASS
B5	5	High	20625	846.5	16QAM	4.4772	4.9418	PASS
B5	5	High	20625	846.5	64QAM	4.4717	4.9974	PASS
B5	10	Low	20450	829	QPSK	8.9586	9.8982	PASS
B5	10	Low	20450	829	16QAM	8.9565	9.7581	PASS
B5	10	Low	20450	829	64QAM	8.9638	9.7915	PASS
B5	10	Mid	20525	836.5	QPSK	8.9595	9.7544	PASS
B5	10	Mid	20525	836.5	16QAM	8.9553	9.8318	PASS
B5	10	Mid	20525	836.5	64QAM	8.9545	9.7330	PASS
B5	10	High	20600	844	QPSK	8.9521	9.8891	PASS
B5	10	High	20600	844	16QAM	8.9662	9.8098	PASS



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B5	10	High	20600	844	64QAM	8.9623	9.8514	PASS
B7	5	Low	20775	2502.5	QPSK	4.4850	5.0101	PASS
B7	5	Low	20775	2502.5	16QAM	4.4762	5.0723	PASS
B7	5	Low	20775	2502.5	64QAM	4.4877	4.9391	PASS
B7	5	Mid	21100	2535	QPSK	4.4841	5.1022	PASS
B7	5	Mid	21100	2535	16QAM	4.4761	4.9615	PASS
B7	5	Mid	21100	2535	64QAM	4.4928	4.9453	PASS
B7	5	High	21425	2567.5	QPSK	4.4852	4.9750	PASS
B7	5	High	21425	2567.5	16QAM	4.4851	4.9861	PASS
B7	5	High	21425	2567.5	64QAM	4.4829	5.0151	PASS
B7	10	Low	20800	2505	QPSK	8.9625	9.8922	PASS
B7	10	Low	20800	2505	16QAM	8.9976	9.8878	PASS
B7	10	Low	20800	2505	64QAM	8.9591	9.8459	PASS
B7	10	Mid	21100	2535	QPSK	8.9564	9.9166	PASS
B7	10	Mid	21100	2535	16QAM	8.9649	9.7288	PASS
B7	10	Mid	21100	2535	64QAM	8.9565	9.8174	PASS
B7	10	High	21400	2565	QPSK	8.9519	9.8981	PASS
B7	10	High	21400	2565	16QAM	8.9551	9.7855	PASS
B7	10	High	21400	2565	64QAM	8.9642	9.9159	PASS
B7	15	Low	20825	2507.5	QPSK	13.451	14.582	PASS
B7	15	Low	20825	2507.5	16QAM	13.420	14.596	PASS
B7	15	Low	20825	2507.5	64QAM	13.426	14.693	PASS
B7	15	Mid	21100	2535	QPSK	13.436	14.646	PASS
B7	15	Mid	21100	2535	16QAM	13.439	14.596	PASS
B7	15	Mid	21100	2535	64QAM	13.431	14.704	PASS
B7	15	High	21375	2562.5	QPSK	13.449	14.595	PASS
B7	15	High	21375	2562.5	16QAM	13.441	14.452	PASS
B7	15	High	21375	2562.5	64QAM	13.424	14.679	PASS
B7	20	Low	20850	2510	QPSK	17.894	19.314	PASS
B7	20	Low	20850	2510	16QAM	17.882	19.294	PASS
B7	20	Low	20850	2510	64QAM	17.893	19.223	PASS
B7	20	Mid	21100	2535	QPSK	17.901	19.112	PASS
B7	20	Mid	21100	2535	16QAM	17.916	19.251	PASS
B7	20	Mid	21100	2535	64QAM	17.900	19.371	PASS
B7	20	High	21350	2560	QPSK	17.908	19.504	PASS
B7	20	High	21350	2560	16QAM	17.891	19.380	PASS
B7	20	High	21350	2560	64QAM	17.898	19.346	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	1.1002	1.3471	PASS
B12	1.4	Low	23017	699.7	16QAM	1.1027	1.3681	PASS
B12	1.4	Low	23017	699.7	64QAM	1.1026	1.3430	PASS
B12	1.4	Mid	23095	707.5	QPSK	1.1000	1.3395	PASS
B12	1.4	Mid	23095	707.5	16QAM	1.1055	1.4004	PASS
B12	1.4	Mid	23095	707.5	64QAM	1.1034	1.3599	PASS
B12	1.4	High	23173	715.3	QPSK	1.1005	1.3551	PASS
B12	1.4	High	23173	715.3	16QAM	1.1055	1.3629	PASS
B12	1.4	High	23173	715.3	64QAM	1.1045	1.3675	PASS
B12	3	Low	23025	700.5	QPSK	2.7108	3.0428	PASS
B12	3	Low	23025	700.5	16QAM	2.7180	3.0418	PASS
B12	3	Low	23025	700.5	64QAM	2.7086	3.0118	PASS
B12	3	Mid	23095	707.5	QPSK	2.7086	3.0646	PASS
B12	3	Mid	23095	707.5	16QAM	2.7143	3.0757	PASS
B12	3	Mid	23095	707.5	64QAM	2.7142	3.0847	PASS
B12	3	High	23165	714.5	QPSK	2.7011	3.0297	PASS
B12	3	High	23165	714.5	16QAM	2.7222	3.0562	PASS
B12	3	High	23165	714.5	64QAM	2.7116	3.0652	PASS
B12	5	Low	23035	701.5	QPSK	4.4758	4.9600	PASS
B12	5	Low	23035	701.5	16QAM	4.4755	4.9627	PASS
B12	5	Low	23035	701.5	64QAM	4.4876	5.0099	PASS
B12	5	Mid	23095	707.5	QPSK	4.4808	5.0091	PASS
B12	5	Mid	23095	707.5	16QAM	4.4805	4.9575	PASS
B12	5	Mid	23095	707.5	64QAM	4.4795	4.9355	PASS
B12	5	High	23155	713.5	QPSK	4.4805	5.0002	PASS
B12	5	High	23155	713.5	16QAM	4.4743	4.9110	PASS
B12	5	High	23155	713.5	64QAM	4.4748	5.0119	PASS
B12	10	Low	23060	704	QPSK	8.9323	9.7042	PASS
B12	10	Low	23060	704	16QAM	8.9467	9.6773	PASS
B12	10	Low	23060	704	64QAM	8.9283	9.7093	PASS
B12	10	Mid	23095	707.5	QPSK	8.9612	9.8897	PASS
B12	10	Mid	23095	707.5	16QAM	8.9616	9.8426	PASS
B12	10	Mid	23095	707.5	64QAM	8.9542	9.8473	PASS
B12	10	High	23130	711	QPSK	8.9735	9.8664	PASS
B12	10	High	23130	711	16QAM	8.9652	9.7791	PASS



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B12	10	High	23130	711	64QAM	8.9694	9.7808	PASS
B13	5	Low	23205	779.5	QPSK	4.4617	5.0126	PASS
B13	5	Low	23205	779.5	16QAM	4.4648	4.9380	PASS
B13	5	Low	23205	779.5	64QAM	4.4689	4.9667	PASS
B13	5	Mid	23230	782	QPSK	4.4728	4.9806	PASS
B13	5	Mid	23230	782	16QAM	4.4707	4.9881	PASS
B13	5	Mid	23230	782	64QAM	4.4857	5.0090	PASS
B13	5	High	23255	784.5	QPSK	4.4673	4.9265	PASS
B13	5	High	23255	784.5	16QAM	4.4816	5.0282	PASS
B13	5	High	23255	784.5	64QAM	4.4748	5.0476	PASS
B13	10	Mid	23230	782	QPSK	8.9242	9.7871	PASS
B13	10	Mid	23230	782	16QAM	8.9419	9.7441	PASS
B13	10	Mid	23230	782	64QAM	8.9573	9.7798	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	1.1012	1.3380	PASS
B66	1.4	Low	131979	1710.7	16QAM	1.1068	1.3534	PASS
B66	1.4	Low	131979	1710.7	64QAM	1.0988	1.3660	PASS
B66	1.4	Mid	132322	1745	QPSK	1.1011	1.3475	PASS
B66	1.4	Mid	132322	1745	16QAM	1.1046	1.3586	PASS
B66	1.4	Mid	132322	1745	64QAM	1.1069	1.3338	PASS
B66	1.4	High	132665	1779.3	QPSK	1.1000	1.3447	PASS
B66	1.4	High	132665	1779.3	16QAM	1.1106	1.3730	PASS
B66	1.4	High	132665	1779.3	64QAM	1.1053	1.3633	PASS
B66	3	Low	131987	1711.5	QPSK	2.7142	3.0436	PASS
B66	3	Low	131987	1711.5	16QAM	2.7141	3.0814	PASS
B66	3	Low	131987	1711.5	64QAM	2.7131	3.0744	PASS
B66	3	Mid	132322	1745	QPSK	2.7088	3.0460	PASS
B66	3	Mid	132322	1745	16QAM	2.7126	3.0793	PASS
B66	3	Mid	132322	1745	64QAM	2.7177	3.0722	PASS
B66	3	High	132657	1778.5	QPSK	2.7193	3.0685	PASS
B66	3	High	132657	1778.5	16QAM	2.7173	3.0628	PASS
B66	3	High	132657	1778.5	64QAM	2.7152	3.0866	PASS
B66	5	Low	131997	1712.5	QPSK	4.4745	5.0428	PASS
B66	5	Low	131997	1712.5	16QAM	4.4823	4.9570	PASS
B66	5	Low	131997	1712.5	64QAM	4.4711	4.9359	PASS
B66	5	Mid	132322	1745	QPSK	4.4835	5.0070	PASS
B66	5	Mid	132322	1745	16QAM	4.4835	5.0351	PASS
B66	5	Mid	132322	1745	64QAM	4.4869	4.9717	PASS
B66	5	High	132647	1777.5	QPSK	4.4841	5.0051	PASS
B66	5	High	132647	1777.5	16QAM	4.4777	4.9766	PASS
B66	5	High	132647	1777.5	64QAM	4.4809	4.9944	PASS
B66	10	Low	132022	1715	QPSK	8.9557	9.8197	PASS
B66	10	Low	132022	1715	16QAM	8.9665	9.9034	PASS
B66	10	Low	132022	1715	64QAM	8.9435	9.7368	PASS
B66	10	Mid	132322	1745	QPSK	8.9549	9.9374	PASS
B66	10	Mid	132322	1745	16QAM	8.9645	9.7566	PASS
B66	10	Mid	132322	1745	64QAM	8.9582	9.7751	PASS
B66	10	High	132622	1775	QPSK	8.9543	9.9444	PASS
B66	10	High	132622	1775	16QAM	8.9610	9.7886	PASS



REPORT No.: SZ24060193W05

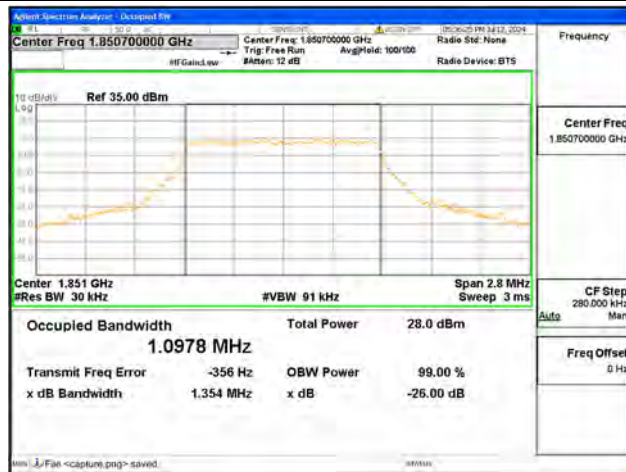
B66	10	High	132622	1775	64QAM	8.9707	9.9132	PASS
B66	15	Low	132047	1717.5	QPSK	13.426	14.659	PASS
B66	15	Low	132047	1717.5	16QAM	13.415	14.605	PASS
B66	15	Low	132047	1717.5	64QAM	13.457	14.669	PASS
B66	15	Mid	132322	1745	QPSK	13.431	14.727	PASS
B66	15	Mid	132322	1745	16QAM	13.429	14.597	PASS
B66	15	Mid	132322	1745	64QAM	13.405	14.462	PASS
B66	15	High	132597	1772.5	QPSK	13.431	14.684	PASS
B66	15	High	132597	1772.5	16QAM	13.426	14.540	PASS
B66	15	High	132597	1772.5	64QAM	13.429	14.467	PASS
B66	20	Low	132072	1720	QPSK	17.922	19.439	PASS
B66	20	Low	132072	1720	16QAM	17.957	19.283	PASS
B66	20	Low	132072	1720	64QAM	17.912	19.546	PASS
B66	20	Mid	132322	1745	QPSK	17.907	19.535	PASS
B66	20	Mid	132322	1745	16QAM	17.882	19.251	PASS
B66	20	Mid	132322	1745	64QAM	17.883	19.511	PASS
B66	20	High	132572	1770	QPSK	17.918	19.522	PASS
B66	20	High	132572	1770	16QAM	17.866	19.339	PASS
B66	20	High	132572	1770	64QAM	17.924	19.203	PASS



B2 / 1.4MHz / QPSK / Low CH



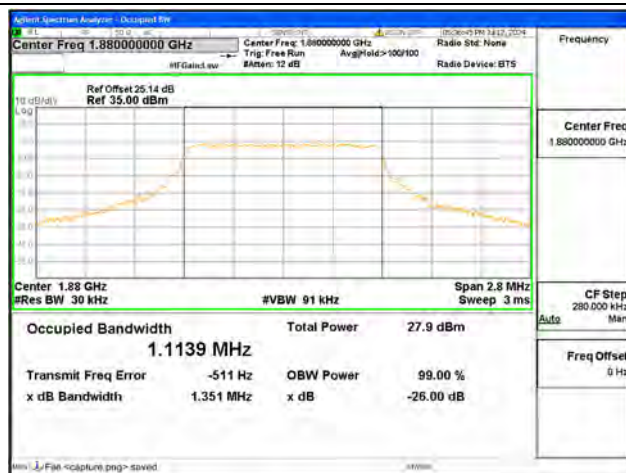
B2 / 1.4MHz / 16QAM / Low CH



B2 / 1.4MHz / 64QAM / Low CH



B2 / 1.4MHz / QPSK / Mid CH



B2 / 1.4MHz / 16QAM / Mid CH



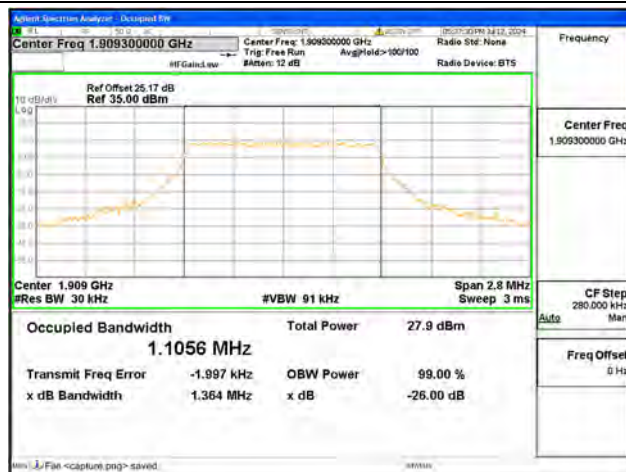
B2 / 1.4MHz / 64QAM / Mid CH



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



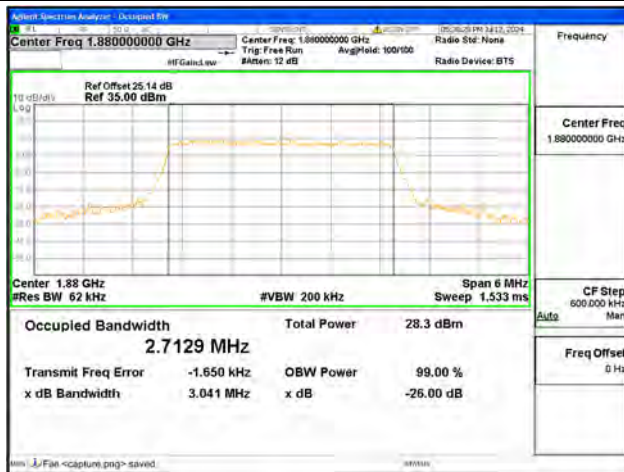
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B2 / 3MHz / QPSK/ Mid CH



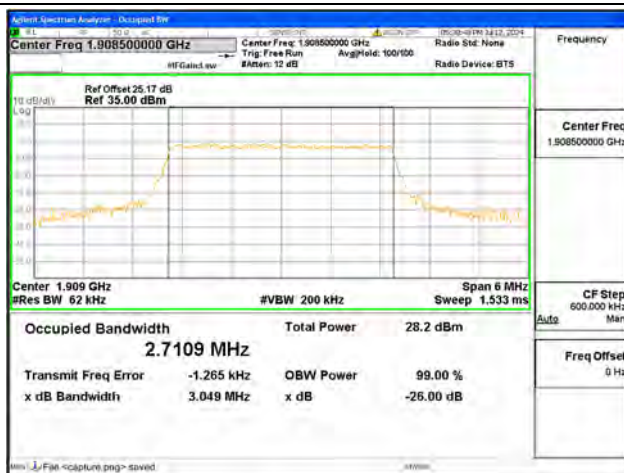
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B2 / 3MHz / 64QAM/ Mid CH



B2 / 3MHz / QPSK/ High CH



B2 / 3MHz / 16QAM/ High CH



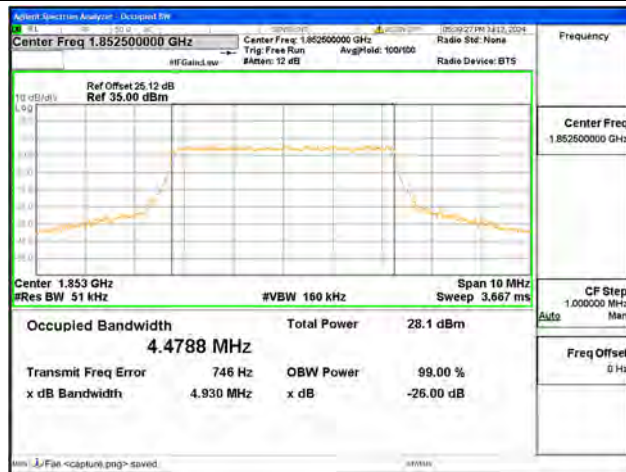
B2 / 3MHz / 64QAM/ High CH



B2 / 5MHz / QPSK/ Low CH



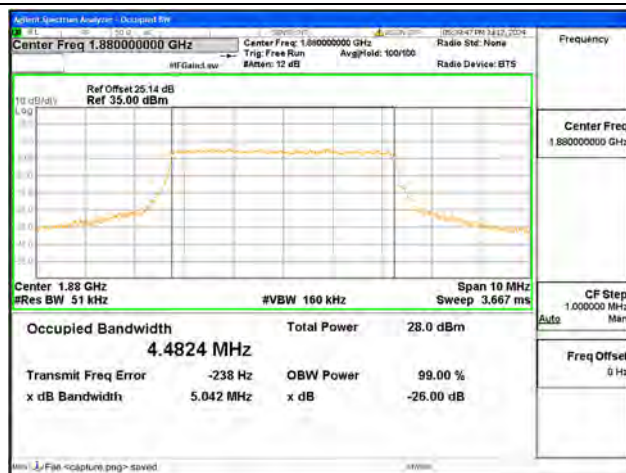
B2 / 5MHz / 16QAM/ Low CH



B2 / 5MHz / 64QAM/ Low CH



B2 / 5MHz / QPSK/ Mid CH



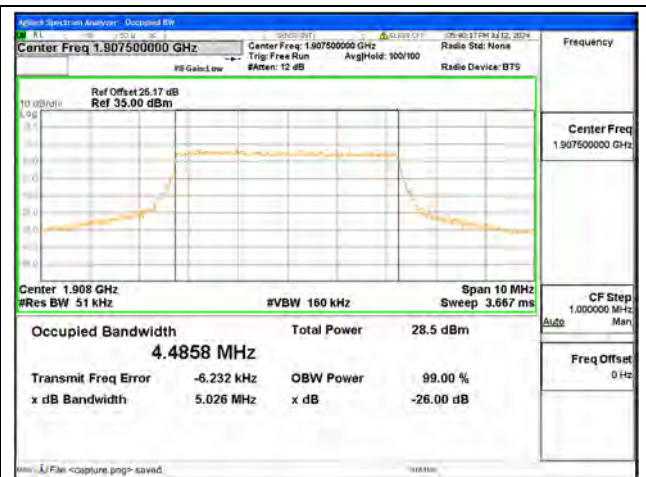
B2 / 5MHz / 16QAM/ Mid CH



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



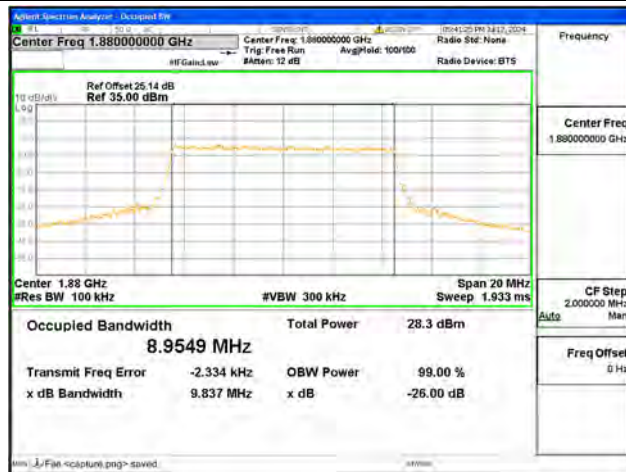
B2 / 10MHz / 64QAM/ Low CH



B2 / 10MHz / QPSK/ Mid CH



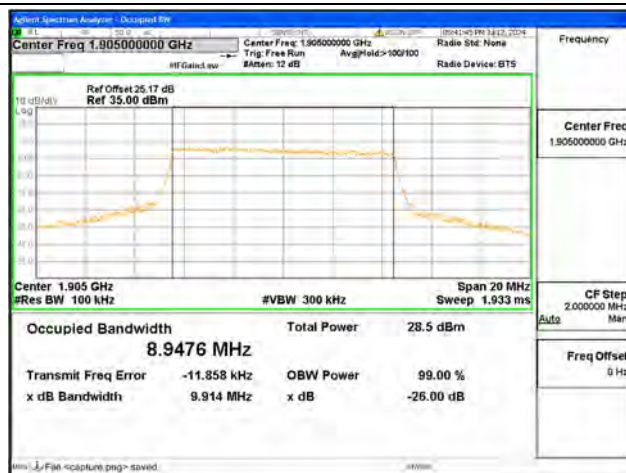
B2 / 10MHz / 16QAM/ Mid CH



B2 / 10MHz / 64QAM/ Mid CH



B2 / 10MHz / QPSK/ High CH



B2 / 10MHz / 16QAM/ High CH



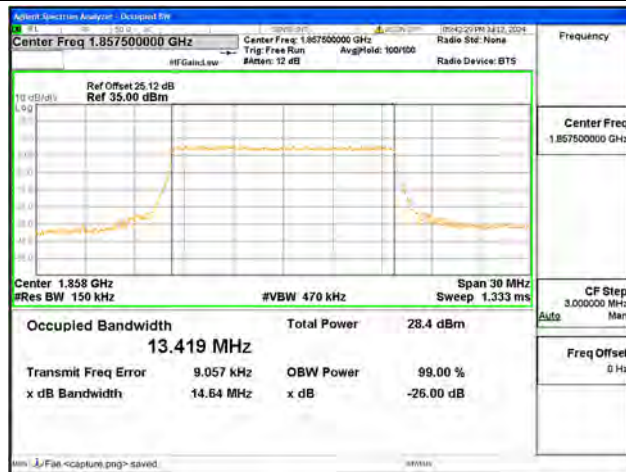
B2 / 10MHz / 64QAM/ High CH



B2 / 15MHz / QPSK/ Low CH



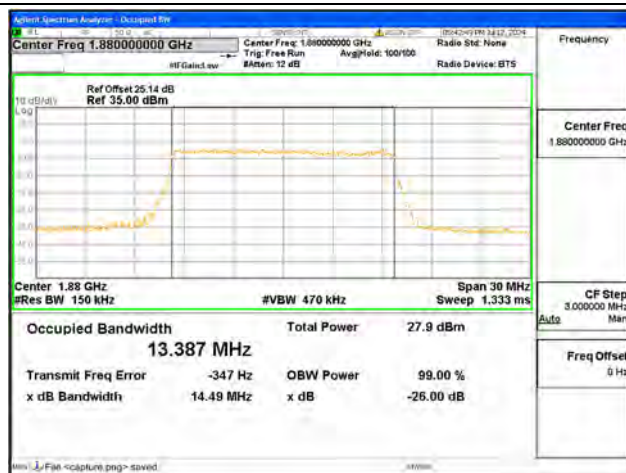
B2 / 15MHz / 16QAM/ Low CH



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



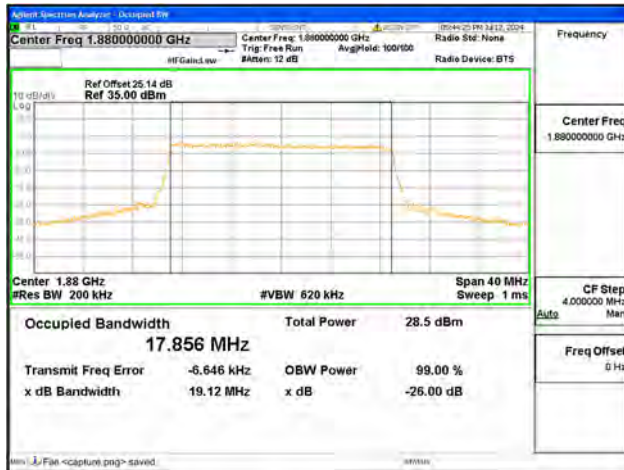
B2 / 20MHz / 64QAM/ Low CH



B2 / 20MHz / QPSK/ Mid CH



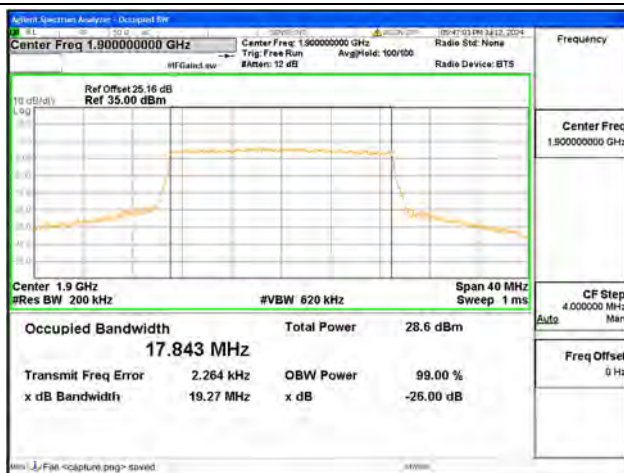
B2 / 20MHz / 16QAM/ Mid CH



B2 / 20MHz / 64QAM/ Mid CH



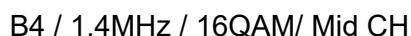
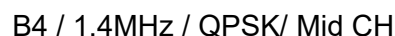
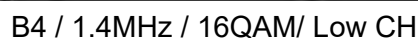
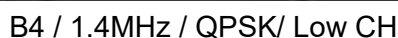
B2 / 20MHz / QPSK/ High CH

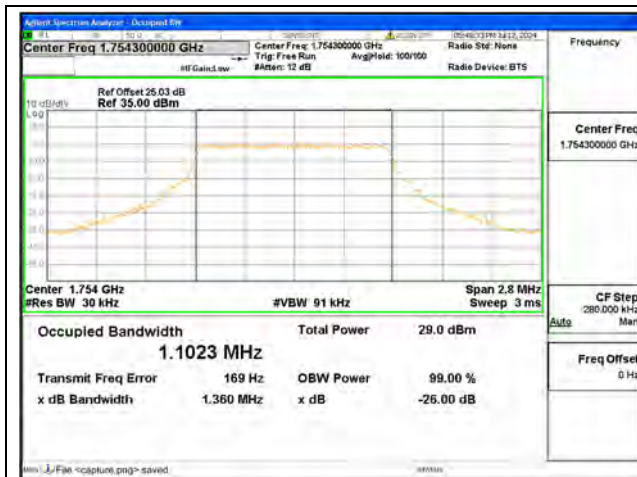


B2 / 20MHz / 16QAM/ High CH



B2 / 20MHz / 64QAM/ High CH

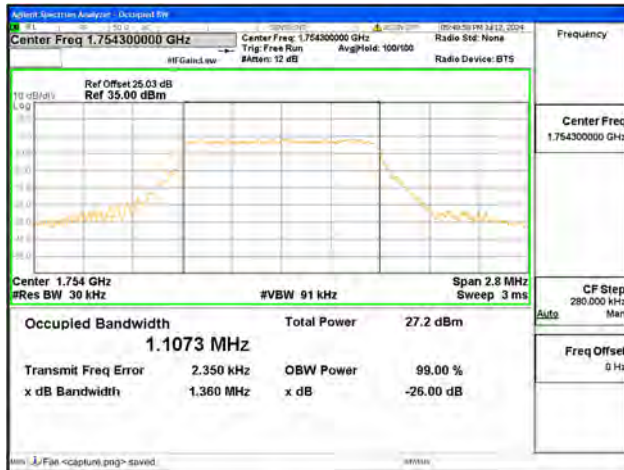




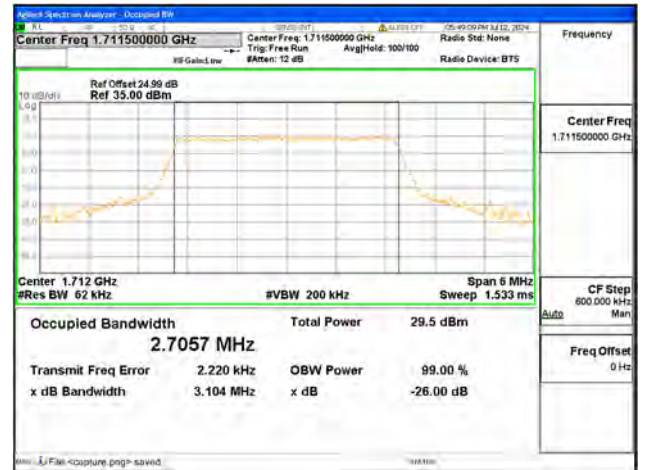
B4 / 1.4MHz / QPSK/ High CH



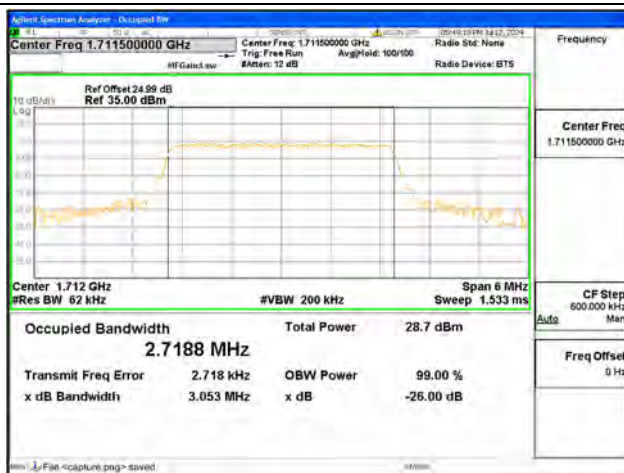
B4 / 1.4MHz / 16QAM/ High CH



B4 / 1.4MHz / 64QAM/ High CH



B4 / 3MHz / QPSK/ Low CH



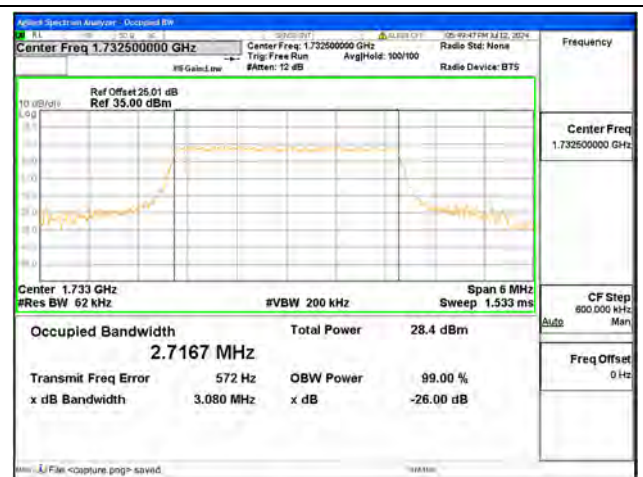
B4 / 3MHz / 16QAM/ Low CH



B4 / 3MHz / 64QAM/ Low CH



B4 / 3MHz / QPSK/ Mid CH



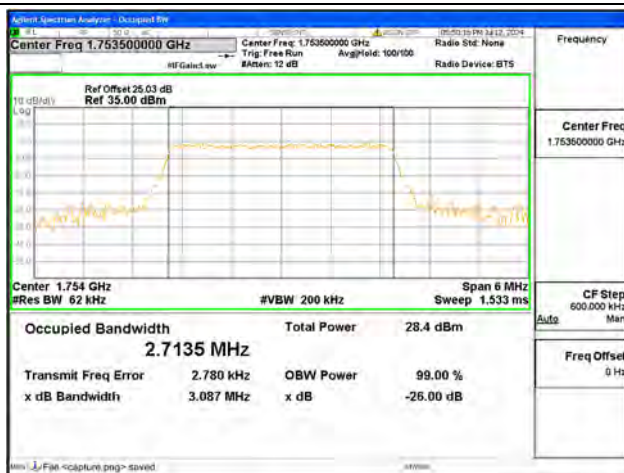
B4 / 3MHz / 16QAM/ Mid CH



B4 / 3MHz / 64QAM/ Mid CH



B4 / 3MHz / QPSK/ High CH



B4 / 3MHz / 16QAM/ High CH



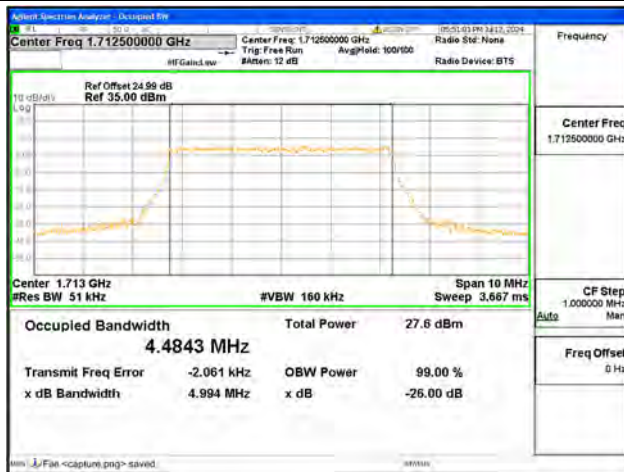
B4 / 3MHz / 64QAM/ High CH



B4 / 5MHz / QPSK/ Low CH



B4 / 5MHz / 16QAM/ Low CH



B4 / 5MHz / 64QAM/ Low CH



B4 / 5MHz / QPSK/ Mid CH



B4 / 5MHz / 16QAM/ Mid CH



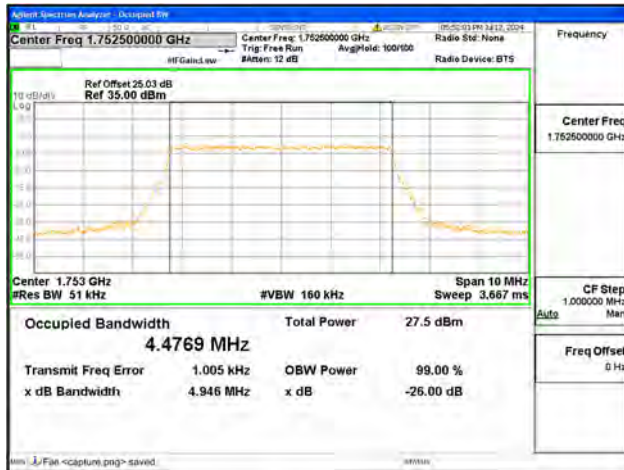
B4 / 5MHz / 64QAM/ Mid CH



B4 / 5MHz / QPSK/ High CH



B4 / 5MHz / 16QAM/ High CH



B4 / 5MHz / 64QAM/ High CH



B4 / 10MHz / QPSK/ Low CH



B4 / 10MHz / 16QAM/ Low CH



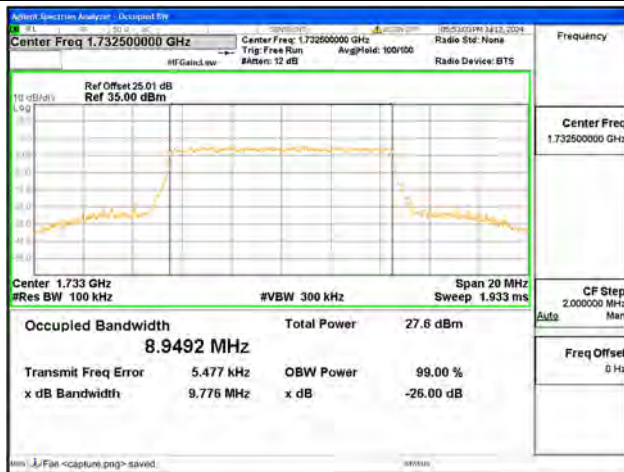
B4 / 10MHz / 64QAM/ Low CH



B4 / 10MHz / QPSK/ Mid CH



B4 / 10MHz / 16QAM/ Mid CH



B4 / 10MHz / 64QAM/ Mid CH



B4 / 10MHz / QPSK/ High CH



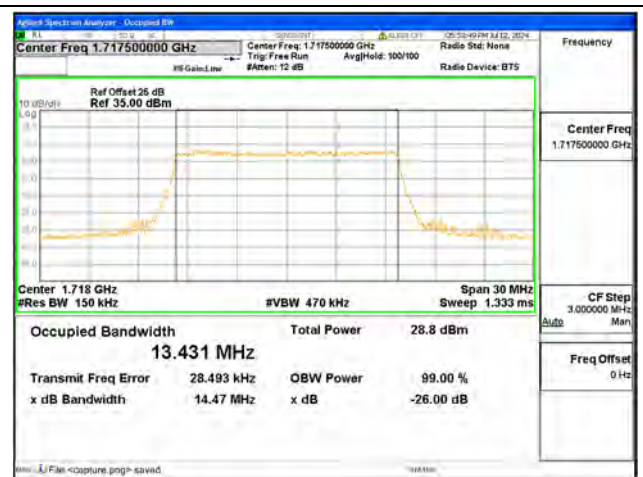
B4 / 10MHz / 16QAM/ High CH



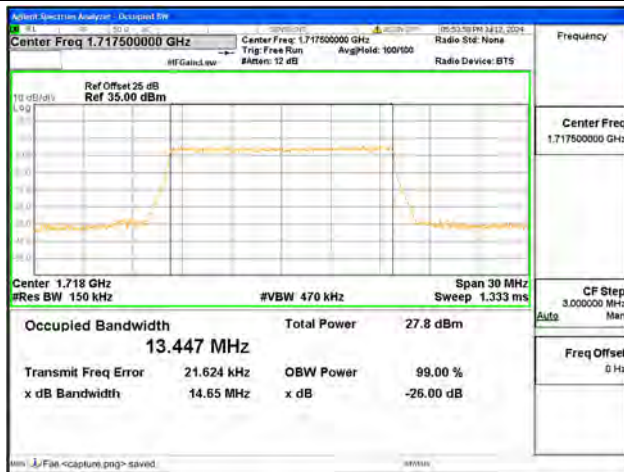
B4 / 10MHz / 64QAM/ High CH



B4 / 15MHz / QPSK/ Low CH



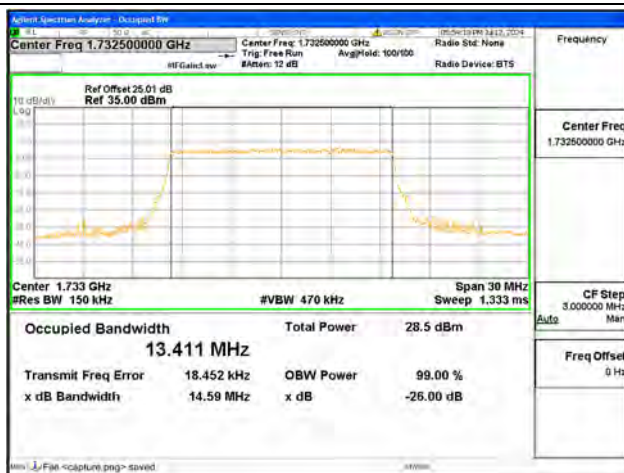
B4 / 15MHz / 16QAM/ Low CH



B4 / 15MHz / 64QAM/ Low CH



B4 / 15MHz / QPSK/ Mid CH



B4 / 15MHz / 16QAM/ Mid CH



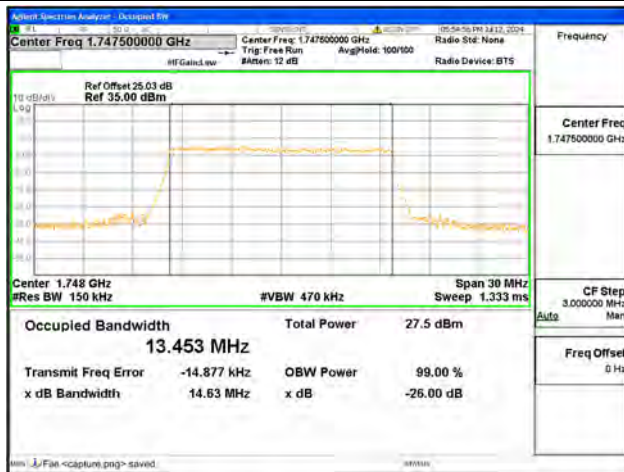
B4 / 15MHz / 64QAM/ Mid CH



B4 / 15MHz / QPSK/ High CH



B4 / 15MHz / 16QAM/ High CH



B4 / 15MHz / 64QAM/ High CH



B4 / 20MHz / QPSK/ Low CH



B4 / 20MHz / 16QAM/ Low CH



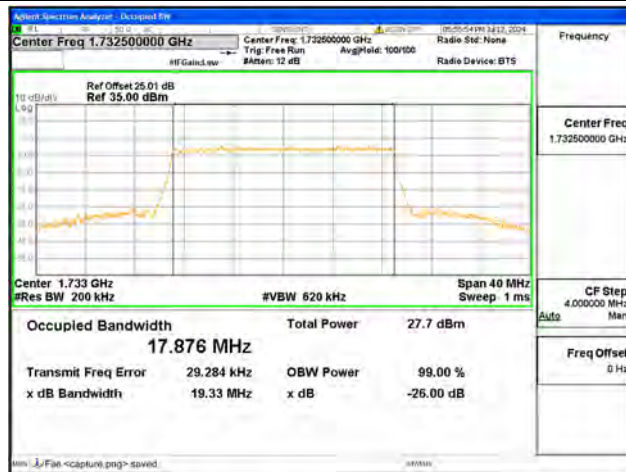
B4 / 20MHz / 64QAM/ Low CH



B4 / 20MHz / QPSK/ Mid CH



B4 / 20MHz / 16QAM/ Mid CH



B4 / 20MHz / 64QAM/ Mid CH



B4 / 20MHz / QPSK/ High CH



B4 / 20MHz / 16QAM/ High CH



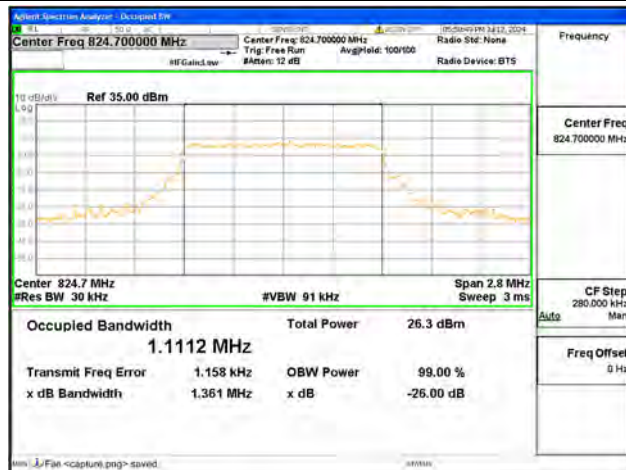
B4 / 20MHz / 64QAM/ High CH



B5 / 1.4MHz / QPSK/ Low CH



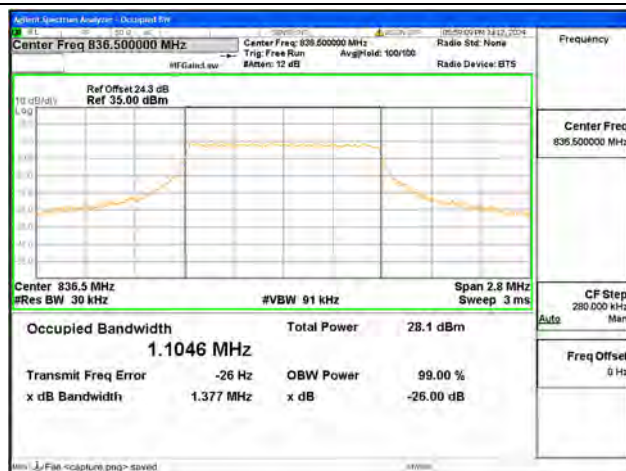
B5 / 1.4MHz / 16QAM/ Low CH



B5 / 1.4MHz / 64QAM/ Low CH



B5 / 1.4MHz / QPSK/ Mid CH



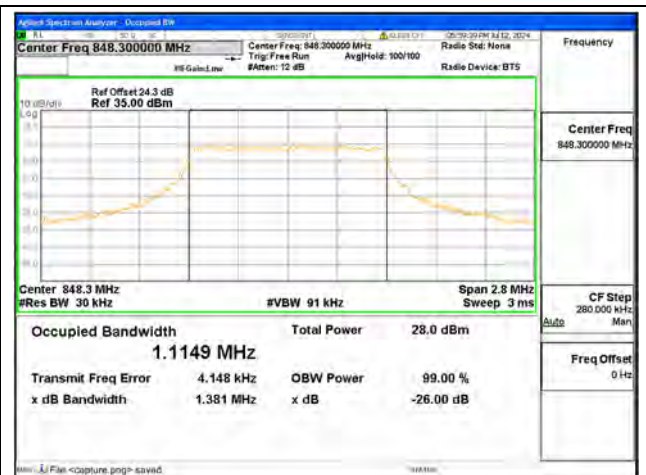
B5 / 1.4MHz / 16QAM/ Mid CH



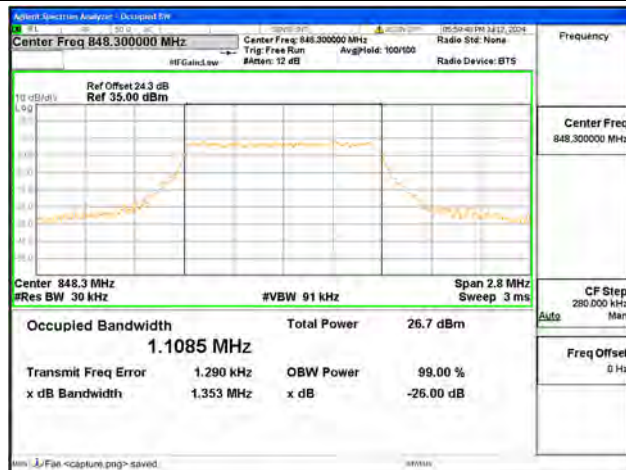
B5 / 1.4MHz / 64QAM/ Mid CH



B5 / 1.4MHz / QPSK/ High CH



B5 / 1.4MHz / 16QAM/ High CH



B5 / 1.4MHz / 64QAM/ High CH



B5 / 3MHz / QPSK/ Low CH



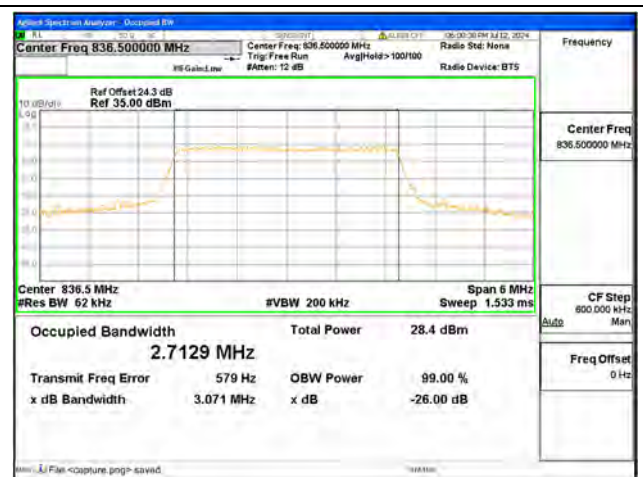
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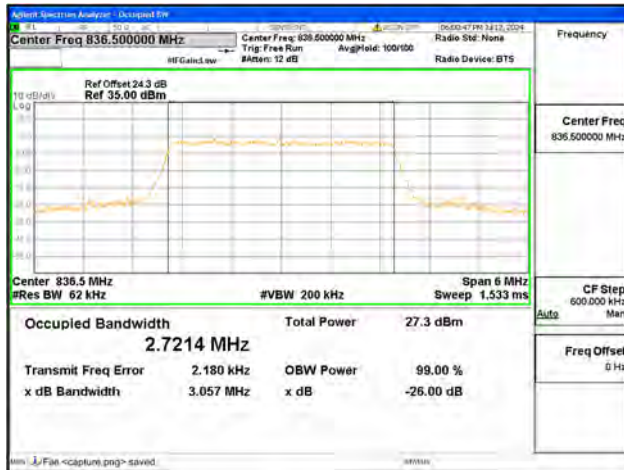
B5 / 3MHz / 64QAM/ Low CH



B5 / 3MHz / QPSK/ Mid CH



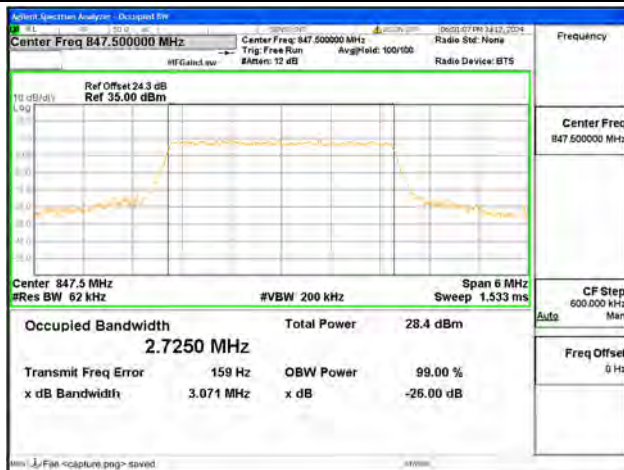
B5 / 3MHz / 16QAM/ Mid CH



B5 / 3MHz / 64QAM/ Mid CH



B5 / 3MHz / QPSK/ High CH



B5 / 3MHz / 16QAM/ High CH



B5 / 3MHz / 64QAM/ High CH



B5 / 5MHz / QPSK/ Low CH



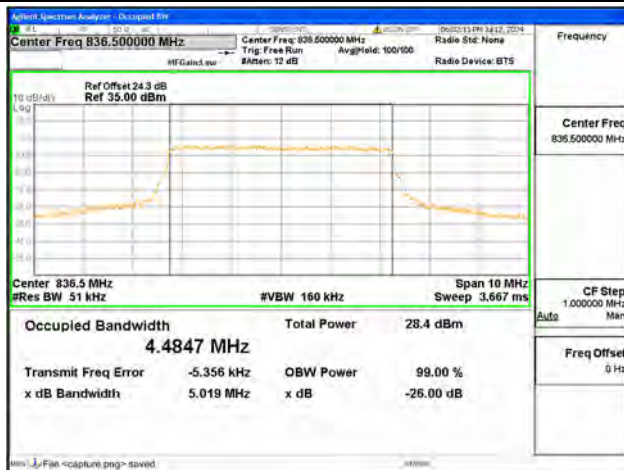
B5 / 5MHz / 16QAM/ Low CH



B5 / 5MHz / 64QAM/ Low CH



B5 / 5MHz / QPSK/ Mid CH



B5 / 5MHz / 16QAM/ Mid CH



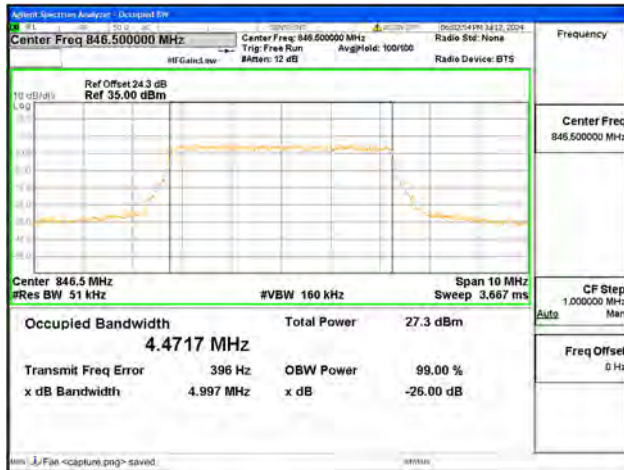
B5 / 5MHz / 64QAM/ Mid CH



B5 / 5MHz / QPSK/ High CH



B5 / 5MHz / 16QAM/ High CH



B5 / 5MHz / 64QAM/ High CH



B5 / 10MHz / QPSK/ Low CH



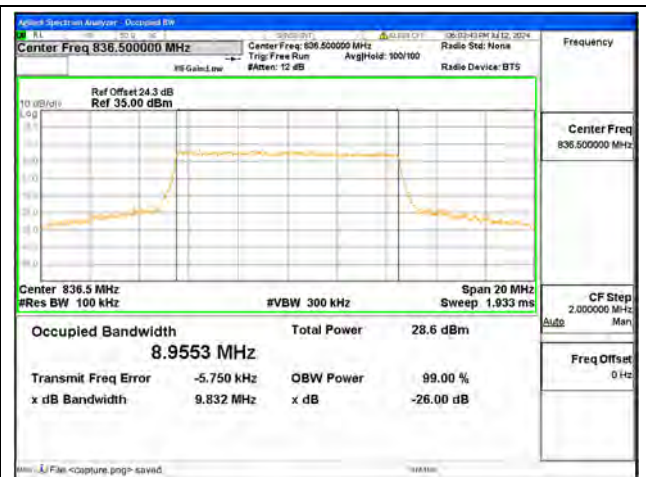
B5 / 10MHz / 16QAM/ Low CH



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



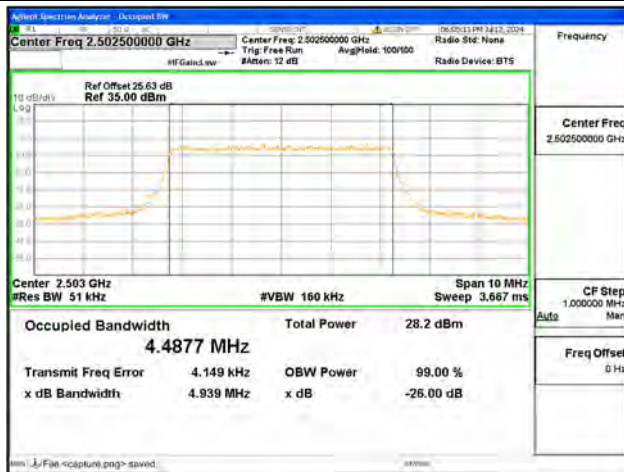
B5 / 10MHz / 64QAM/ High CH



B7 / 5MHz / QPSK/ Low CH



B7 / 5MHz / 16QAM/ Low CH



B7 / 5MHz / 64QAM/ Low CH



B7 / 5MHz / QPSK/ Mid CH



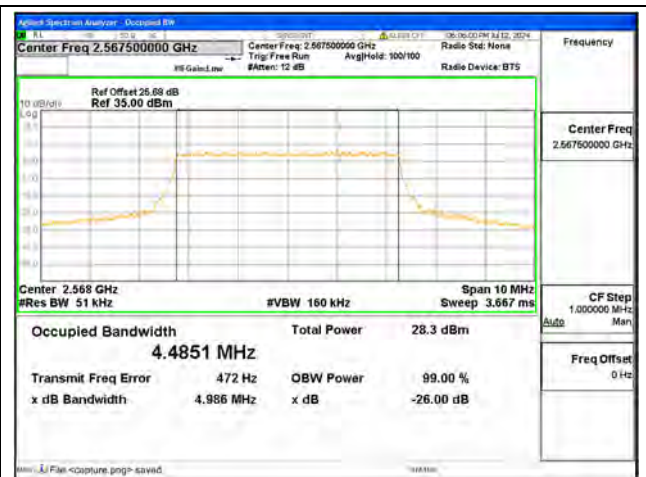
B7 / 5MHz / 16QAM/ Mid CH



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



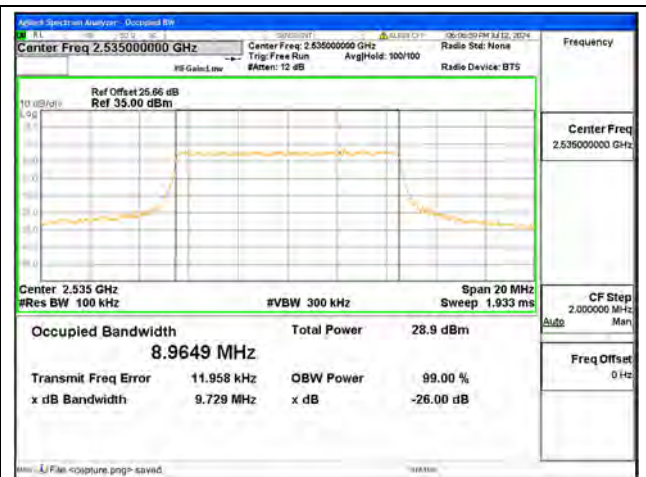
B7 / 10MHz / 16QAM/ Low CH



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



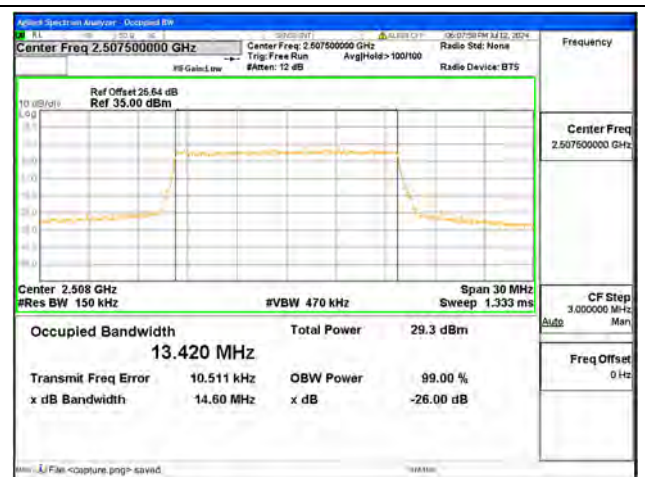
B7 / 10MHz / 16QAM/ High CH



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



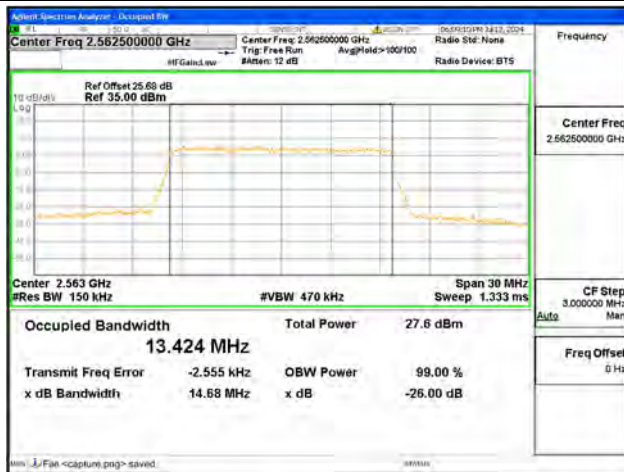
B7 / 15MHz / 64QAM/ Mid CH



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



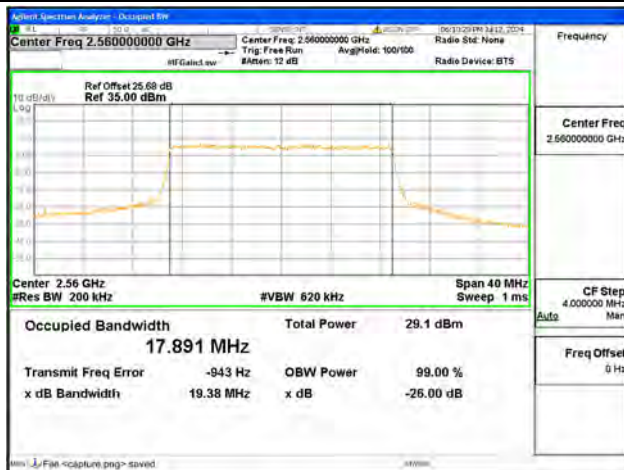
B7 / 20MHz / 16QAM/ Mid CH



B7 / 20MHz / 64QAM/ Mid CH



B7 / 20MHz / QPSK/ High CH



B7 / 20MHz / 16QAM/ High CH



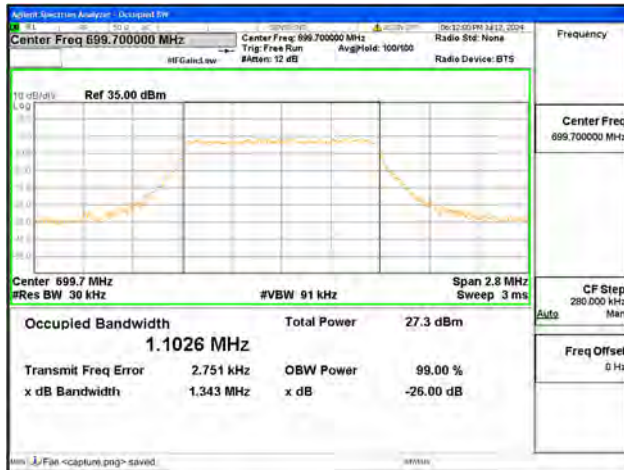
B7 / 20MHz / 64QAM/ High CH



B12 / 1.4MHz / QPSK/ Low CH



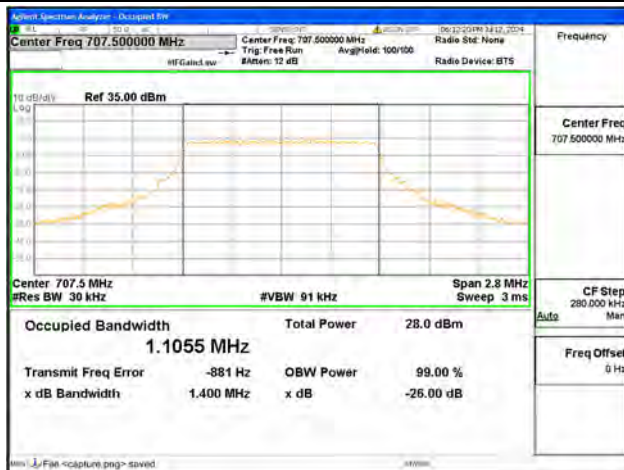
B12 / 1.4MHz / 16QAM/ Low CH



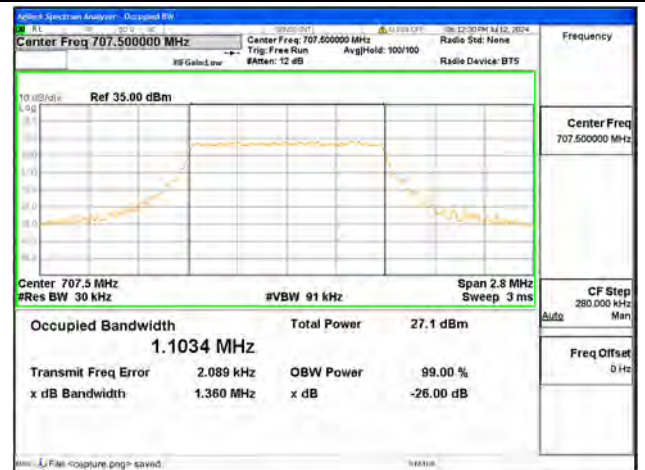
B12 / 1.4MHz / 64QAM/ Low CH



B12 / 1.4MHz / QPSK/ Mid CH



B12 / 1.4MHz / 16QAM/ Mid CH



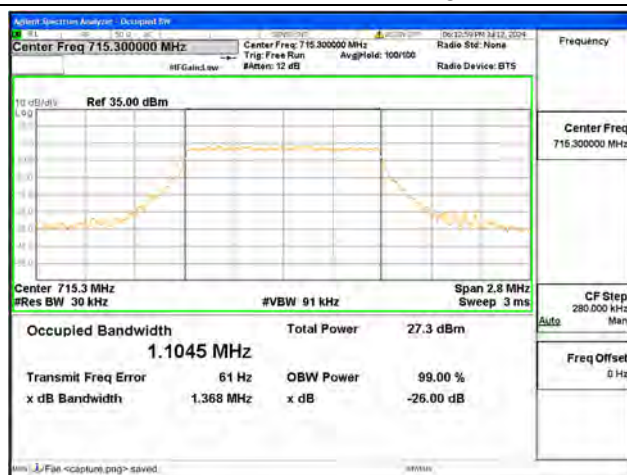
B12 / 1.4MHz / 64QAM/ Mid CH



B12 / 1.4MHz / QPSK/ High CH



B12 / 1.4MHz / 16QAM/ High CH



B12 / 1.4MHz / 64QAM/ High CH



B12 / 3MHz / QPSK/ Low CH



B12 / 3MHz / 16QAM/ Low CH



B12 / 3MHz / 64QAM/ Low CH



B12 / 3MHz / QPSK/ Mid CH



B12 / 3MHz / 16QAM/ Mid CH



B12 / 3MHz / 64QAM/ Mid CH



B12 / 3MHz / QPSK/ High CH



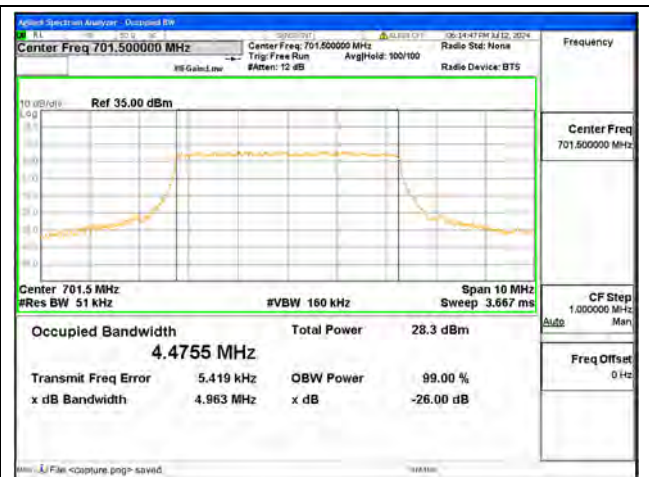
B12 / 3MHz / 16QAM/ High CH



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



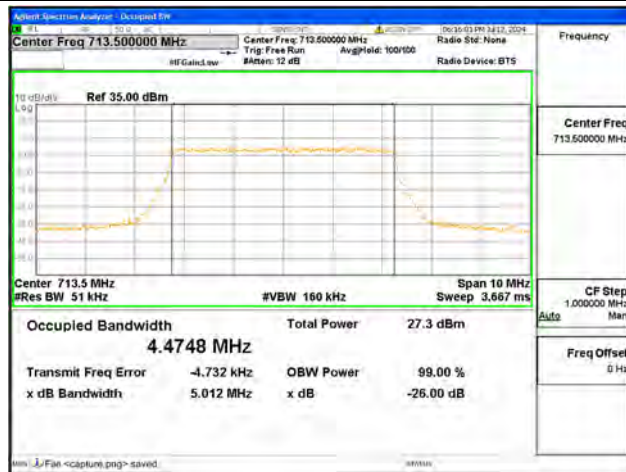
B12 / 5MHz / 64QAM/ Mid CH



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



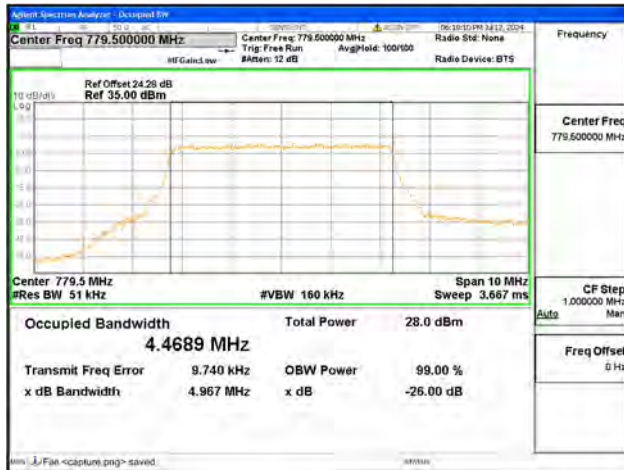
B12 / 10MHz / 64QAM/ High CH



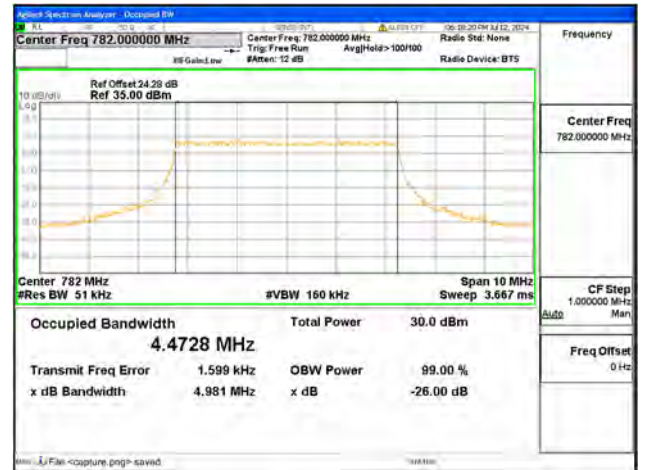
B13 / 5MHz / QPSK/ Low CH



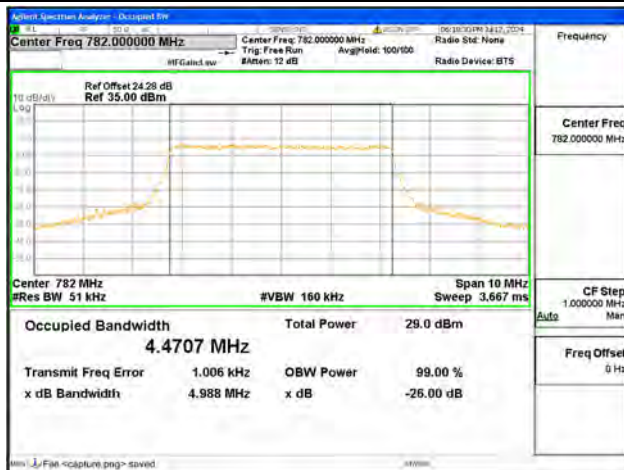
B13 / 5MHz / 16QAM/ Low CH



B13 / 5MHz / 64QAM/ Low CH



B13 / 5MHz / QPSK/ Mid CH



B13 / 5MHz / 16QAM/ Mid CH



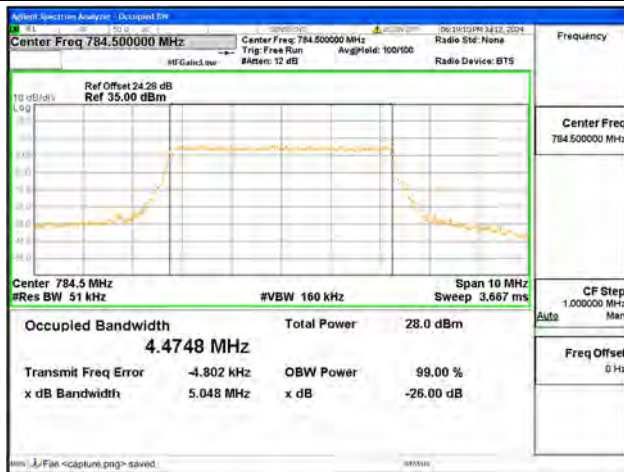
B13 / 5MHz / 64QAM/ Mid CH



B13 / 5MHz / QPSK/ High CH



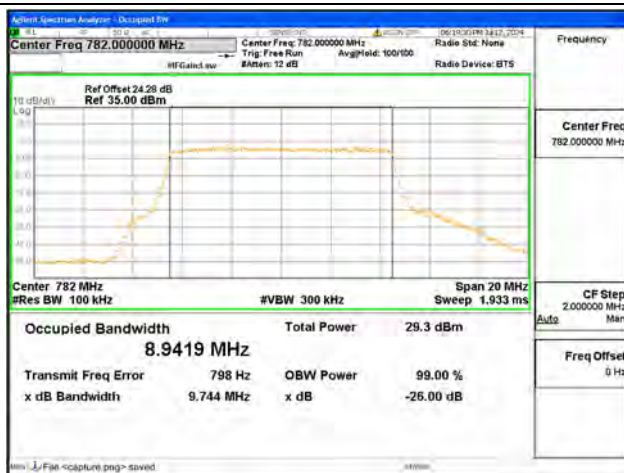
B13 / 5MHz / 16QAM/ High CH



B13 / 5MHz / 64QAM/ High CH



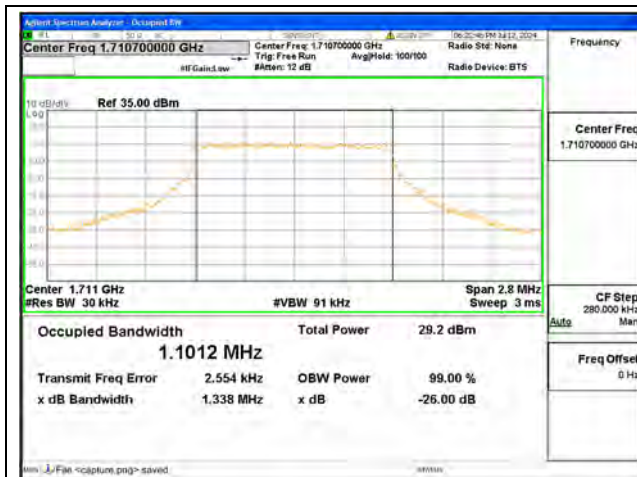
B13 / 10MHz / QPSK/ Mid CH



B13 / 10MHz / 16QAM/ Mid CH



B13 / 10MHz / 64QAM/ Mid CH



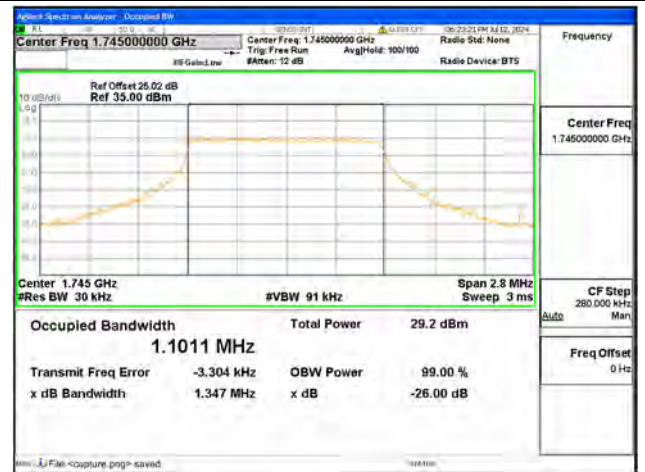
B66 / 1.4MHz / QPSK/ Low CH



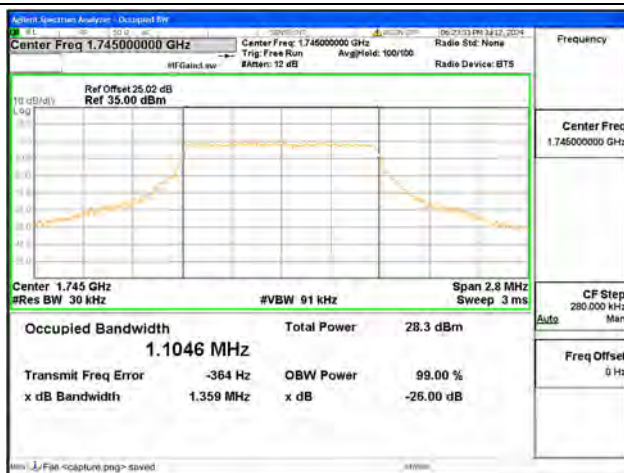
B66 / 1.4MHz / 16QAM/ Low CH



B66 / 1.4MHz / 64QAM/ Low CH



B66 / 1.4MHz / QPSK/ Mid CH



B66 / 1.4MHz / 16QAM/ Mid CH



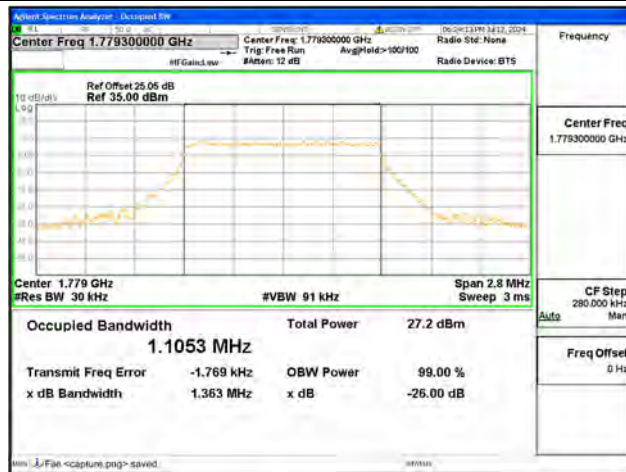
B66 / 1.4MHz / 64QAM/ Mid CH



B66 / 1.4MHz / QPSK/ High CH



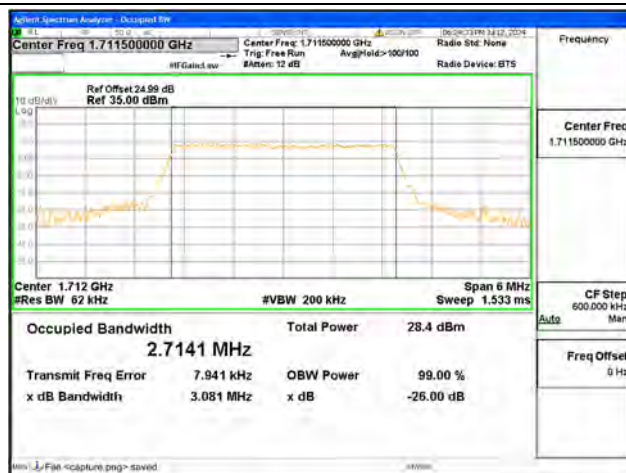
B66 / 1.4MHz / 16QAM/ High CH



B66 / 1.4MHz / 64QAM/ High CH



B66 / 3MHz / QPSK/ Low CH



B66 / 3MHz / 16QAM/ Low CH



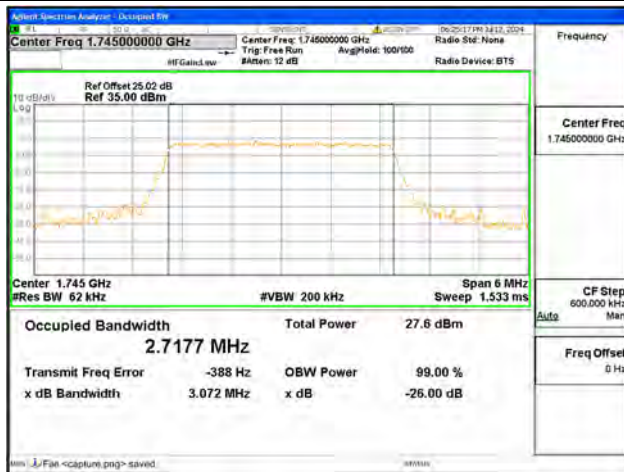
B66 / 3MHz / 64QAM/ Low CH



B66 / 3MHz / QPSK/ Mid CH



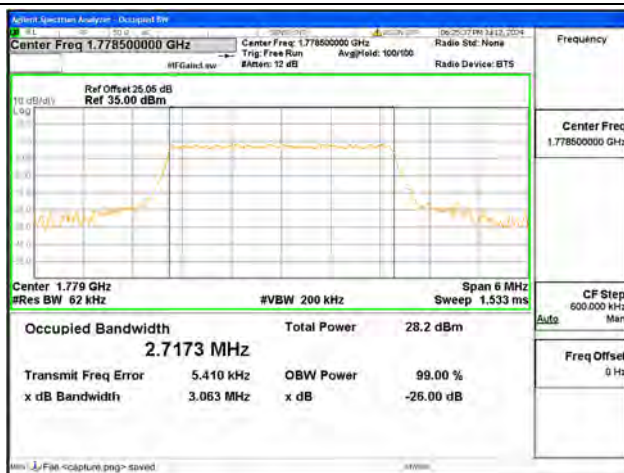
B66 / 3MHz / 16QAM/ Mid CH



B66 / 3MHz / 64QAM/ Mid CH



B66 / 3MHz / QPSK/ High CH



B66 / 3MHz / 16QAM/ High CH



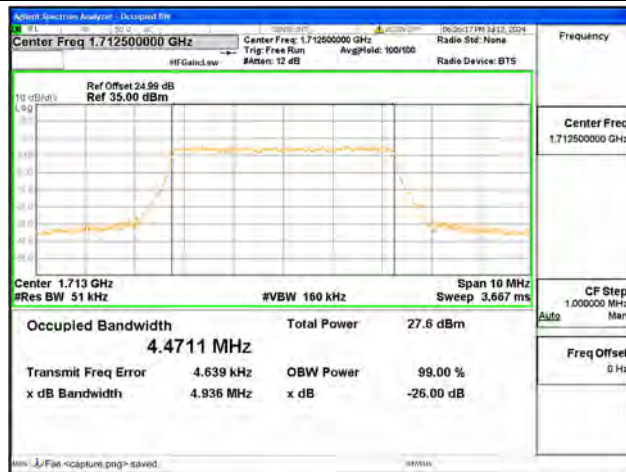
B66 / 3MHz / 64QAM/ High CH



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



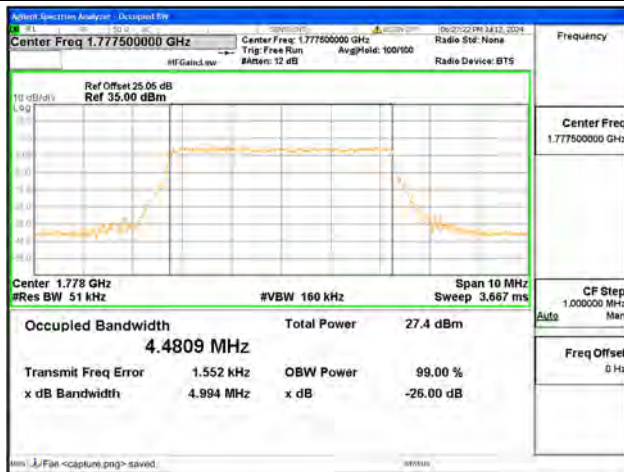
B66 / 5MHz / 64QAM/ Mid CH



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



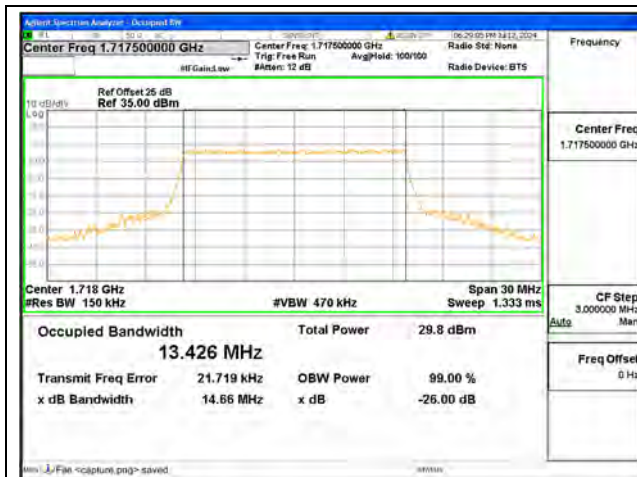
B66 / 10MHz / QPSK/ High CH



B66 / 10MHz / 16QAM/ High CH



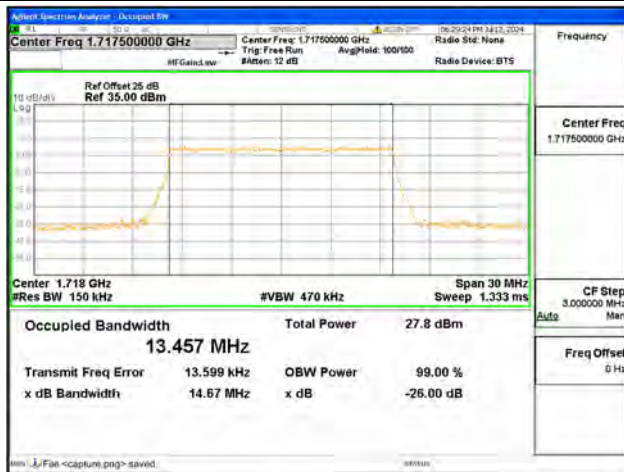
B66 / 10MHz / 64QAM/ High CH



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



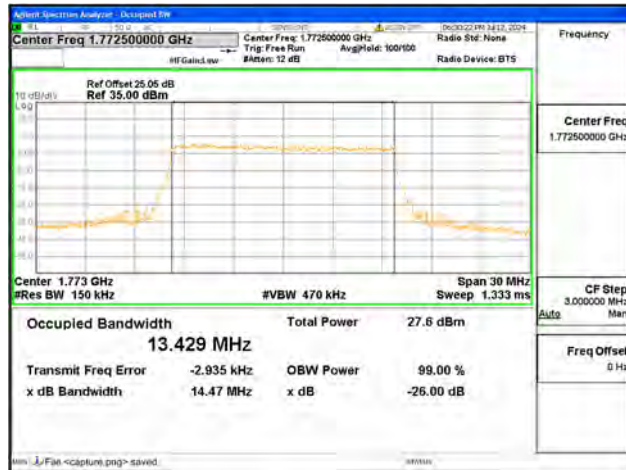
B66 / 15MHz / 64QAM/ Mid CH



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



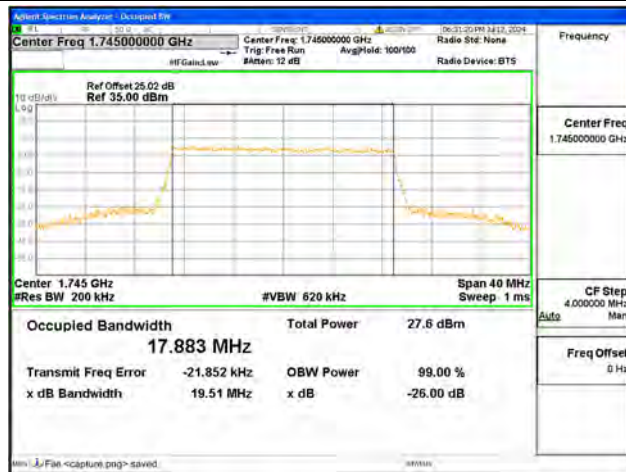
B66 / 20MHz / 64QAM/ Low CH



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

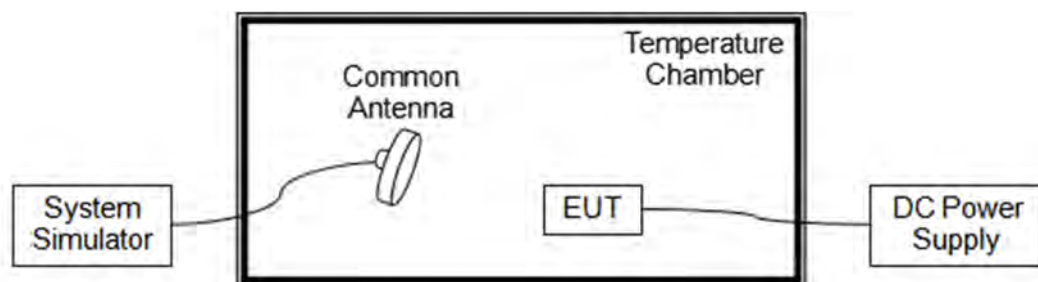
2.3.1. Requirement

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 0°C to 40°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 3.60V, 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		0	15	0.008	
Normal		+10	-1	-0.001	
Normal		+20	19	0.010	
Normal		+30	-9	-0.005	
Normal		+40	16	0.009	
High	4.40	+20	19	0.010	
BATT.ENDPOINT	3.60	+20	19	0.010	

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)	14	0.008	PASS
Normal		0	-2	-0.001	
Normal		+10	19	0.011	
Normal		+20	19	0.011	
Normal		+30	10	0.006	
Normal		+40	14	0.008	
High	4.40	+20	-18	-0.010	
BATT.ENDPOINT	3.60	+20	5	0.003	



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)	16	0.019	PASS
Normal		0	14	0.017	
Normal		+10	16	0.019	
Normal		+20	15	0.018	
Normal		+30	7	0.008	
Normal		+40	20	0.024	
High	4.40	+20	-17	-0.020	
BATT.ENDPOINT	3.60	+20	10	0.012	

LTE Band 7, 64QAM, Channel 21100, Frequency 2535MHz Limit= Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	13	0.005	PASS
Normal		0	1	0.000	
Normal		+10	16	0.006	
Normal		+20	13	0.005	
Normal		+30	-10	-0.004	
Normal		+40	16	0.006	
High	4.40	+20	8	0.003	
BATT.ENDPOINT	3.60	+20	19	0.007	



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)	19	0.027	PASS
Normal		0	-8	-0.011	
Normal		+10	16	0.023	
Normal		+20	16	0.023	
Normal		+30	2	0.003	
Normal		+40	16	0.023	
High	4.40	+20	-8	-0.011	
BATT.ENDPOINT	3.60	+20	19	0.027	

LTE Band 13, 64QAM, Channel 23230, Frequency 782.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	-15	-0.019	PASS
Normal		0	18	0.023	
Normal		+10	-9	-0.012	
Normal		+20	14	0.018	
Normal		+30	-12	-0.015	
Normal		+40	16	0.020	
High	4.40	+20	-14	-0.018	
BATT.ENDPOINT	3.60	+20	-14	-0.018	



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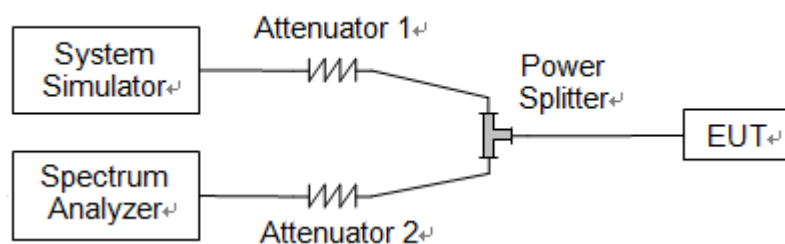
LTE Band 66, 64QAM, Channel 132322, Frequency 1745MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	16	0.009	PASS
Normal		0	-12	-0.007	
Normal		+10	14	0.008	
Normal		+20	-20	-0.011	
Normal		+30	20	0.011	
Normal		+40	-16	-0.009	
High	4.40	+20	1	0.001	
BATT.ENDPOINT	3.60	+20	15	0.009	

2.4. Peak to Average Ratio

2.4.1. Requirement

According to FCC section 24.232(d) and 27.50(d), the peak to average ratio (PAR) of the transmission may not exceed 13dB.

2.4.2. 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.

2.4.3. Test Procedure

KDB 971168 D01v03 Section 5.7 and ANSI/TIA-603-E-2016.

2.4.4. Test Result

Record the maximum PAPR level associated with a probability of 0.1%.



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	Peak to Average Radio(dB)	Verdict
B2	1.4	Low	18607	1850.7	QPSK	4.69	PASS
B2	1.4	Low	18607	1850.7	16QAM	6.13	PASS
B2	1.4	Low	18607	1850.7	64QAM	6.68	PASS
B2	1.4	Mid	18900	1880	QPSK	4.61	PASS
B2	1.4	Mid	18900	1880	16QAM	6.02	PASS
B2	1.4	Mid	18900	1880	64QAM	6.62	PASS
B2	1.4	High	19193	1909.3	QPSK	4.69	PASS
B2	1.4	High	19193	1909.3	16QAM	6.16	PASS
B2	1.4	High	19193	1909.3	64QAM	6.62	PASS
B2	3	Low	18615	1851.5	QPSK	4.62	PASS
B2	3	Low	18615	1851.5	16QAM	6.11	PASS
B2	3	Low	18615	1851.5	64QAM	6.59	PASS
B2	3	Mid	18900	1880	QPSK	4.61	PASS
B2	3	Mid	18900	1880	16QAM	5.95	PASS
B2	3	Mid	18900	1880	64QAM	6.52	PASS
B2	3	High	19185	1908.5	QPSK	4.64	PASS
B2	3	High	19185	1908.5	16QAM	6.11	PASS
B2	3	High	19185	1908.5	64QAM	6.59	PASS
B2	5	Low	18625	1852.5	QPSK	4.80	PASS
B2	5	Low	18625	1852.5	16QAM	5.90	PASS
B2	5	Low	18625	1852.5	64QAM	6.59	PASS
B2	5	Mid	18900	1880	QPSK	4.77	PASS
B2	5	Mid	18900	1880	16QAM	5.82	PASS
B2	5	Mid	18900	1880	64QAM	6.49	PASS
B2	5	High	19175	1907.5	QPSK	4.81	PASS
B2	5	High	19175	1907.5	16QAM	5.95	PASS
B2	5	High	19175	1907.5	64QAM	6.55	PASS
B2	10	Low	18650	1855	QPSK	4.85	PASS
B2	10	Low	18650	1855	16QAM	5.89	PASS
B2	10	Low	18650	1855	64QAM	6.48	PASS
B2	10	Mid	18900	1880	QPSK	4.83	PASS
B2	10	Mid	18900	1880	16QAM	5.86	PASS
B2	10	Mid	18900	1880	64QAM	6.43	PASS
B2	10	High	19150	1905	QPSK	4.84	PASS
B2	10	High	19150	1905	16QAM	5.92	PASS



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B2	10	High	19150	1905	64QAM	6.47	PASS
B2	15	Low	18675	1857.5	QPSK	4.78	PASS
B2	15	Low	18675	1857.5	16QAM	6.06	PASS
B2	15	Low	18675	1857.5	64QAM	6.58	PASS
B2	15	Mid	18900	1880	QPSK	4.75	PASS
B2	15	Mid	18900	1880	16QAM	5.93	PASS
B2	15	Mid	18900	1880	64QAM	6.45	PASS
B2	15	High	19125	1902.5	QPSK	4.68	PASS
B2	15	High	19125	1902.5	16QAM	5.88	PASS
B2	15	High	19125	1902.5	64QAM	6.46	PASS
B2	20	Low	18700	1860	QPSK	4.87	PASS
B2	20	Low	18700	1860	16QAM	5.97	PASS
B2	20	Low	18700	1860	64QAM	6.51	PASS
B2	20	Mid	18900	1880	QPSK	4.76	PASS
B2	20	Mid	18900	1880	16QAM	5.81	PASS
B2	20	Mid	18900	1880	64QAM	6.41	PASS
B2	20	High	19100	1900	QPSK	4.71	PASS
B2	20	High	19100	1900	16QAM	5.74	PASS
B2	20	High	19100	1900	64QAM	6.35	PASS
B4	1.4	Low	19957	1710.7	QPSK	4.79	PASS
B4	1.4	Low	19957	1710.7	16QAM	6.10	PASS
B4	1.4	Low	19957	1710.7	64QAM	6.65	PASS
B4	1.4	Mid	20175	1732.5	QPSK	4.65	PASS
B4	1.4	Mid	20175	1732.5	16QAM	6.05	PASS
B4	1.4	Mid	20175	1732.5	64QAM	6.60	PASS
B4	1.4	High	20393	1754.3	QPSK	4.74	PASS
B4	1.4	High	20393	1754.3	16QAM	6.24	PASS
B4	1.4	High	20393	1754.3	64QAM	6.77	PASS
B4	3	Low	19965	1711.5	QPSK	4.70	PASS
B4	3	Low	19965	1711.5	16QAM	6.26	PASS
B4	3	Low	19965	1711.5	64QAM	6.67	PASS
B4	3	Mid	20175	1732.5	QPSK	4.74	PASS
B4	3	Mid	20175	1732.5	16QAM	6.07	PASS
B4	3	Mid	20175	1732.5	64QAM	6.54	PASS
B4	3	High	20385	1753.5	QPSK	4.69	PASS
B4	3	High	20385	1753.5	16QAM	6.21	PASS
B4	3	High	20385	1753.5	64QAM	6.68	PASS
B4	5	Low	19975	1712.5	QPSK	4.83	PASS



B4	5	Low	19975	1712.5	16QAM	5.96	PASS
B4	5	Low	19975	1712.5	64QAM	6.65	PASS
B4	5	Mid	20175	1732.5	QPSK	4.79	PASS
B4	5	Mid	20175	1732.5	16QAM	5.87	PASS
B4	5	Mid	20175	1732.5	64QAM	6.52	PASS
B4	5	High	20375	1752.5	QPSK	4.88	PASS
B4	5	High	20375	1752.5	16QAM	6.05	PASS
B4	5	High	20375	1752.5	64QAM	6.64	PASS
B4	10	Low	20000	1715	QPSK	4.87	PASS
B4	10	Low	20000	1715	16QAM	6.03	PASS
B4	10	Low	20000	1715	64QAM	6.71	PASS
B4	10	Mid	20175	1732.5	QPSK	5.01	PASS
B4	10	Mid	20175	1732.5	16QAM	6.04	PASS
B4	10	Mid	20175	1732.5	64QAM	6.52	PASS
B4	10	High	20350	1750	QPSK	4.94	PASS
B4	10	High	20350	1750	16QAM	6.23	PASS
B4	10	High	20350	1750	64QAM	6.62	PASS
B4	15	Low	20025	1717.5	QPSK	4.92	PASS
B4	15	Low	20025	1717.5	16QAM	6.11	PASS
B4	15	Low	20025	1717.5	64QAM	6.64	PASS
B4	15	Mid	20175	1732.5	QPSK	4.72	PASS
B4	15	Mid	20175	1732.5	16QAM	6.02	PASS
B4	15	Mid	20175	1732.5	64QAM	6.58	PASS
B4	15	High	20325	1747.5	QPSK	4.86	PASS
B4	15	High	20325	1747.5	16QAM	6.13	PASS
B4	15	High	20325	1747.5	64QAM	6.65	PASS
B4	20	Low	20050	1720	QPSK	4.91	PASS
B4	20	Low	20050	1720	16QAM	6.16	PASS
B4	20	Low	20050	1720	64QAM	6.69	PASS
B4	20	Mid	20175	1732.5	QPSK	4.81	PASS
B4	20	Mid	20175	1732.5	16QAM	5.89	PASS
B4	20	Mid	20175	1732.5	64QAM	6.50	PASS
B4	20	High	20300	1745	QPSK	4.88	PASS
B4	20	High	20300	1745	16QAM	5.94	PASS
B4	20	High	20300	1745	64QAM	6.52	PASS



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	Peak to Average Radio(dB)	Verdict
B5	1.4	Low	20407	824.7	QPSK	4.55	PASS
B5	1.4	Low	20407	824.7	16QAM	5.81	PASS
B5	1.4	Low	20407	824.7	64QAM	5.89	PASS
B5	1.4	Mid	20525	836.5	QPSK	3.98	PASS
B5	1.4	Mid	20525	836.5	16QAM	5.25	PASS
B5	1.4	Mid	20525	836.5	64QAM	5.23	PASS
B5	1.4	High	20643	848.3	QPSK	4.31	PASS
B5	1.4	High	20643	848.3	16QAM	5.57	PASS
B5	1.4	High	20643	848.3	64QAM	5.68	PASS
B5	3	Low	20415	825.5	QPSK	4.59	PASS
B5	3	Low	20415	825.5	16QAM	7.89	PASS
B5	3	Low	20415	825.5	64QAM	6.37	PASS
B5	3	Mid	20525	836.5	QPSK	8.29	PASS
B5	3	Mid	20525	836.5	16QAM	6.16	PASS
B5	3	Mid	20525	836.5	64QAM	6.16	PASS
B5	3	High	20635	847.5	QPSK	4.85	PASS
B5	3	High	20635	847.5	16QAM	6.33	PASS
B5	3	High	20635	847.5	64QAM	5.80	PASS
B5	5	Low	20425	826.5	QPSK	4.84	PASS
B5	5	Low	20425	826.5	16QAM	5.83	PASS
B5	5	Low	20425	826.5	64QAM	5.83	PASS
B5	5	Mid	20525	836.5	QPSK	4.65	PASS
B5	5	Mid	20525	836.5	16QAM	5.57	PASS
B5	5	Mid	20525	836.5	64QAM	5.58	PASS
B5	5	High	20625	846.5	QPSK	4.84	PASS
B5	5	High	20625	846.5	16QAM	5.83	PASS
B5	5	High	20625	846.5	64QAM	7.34	PASS
B5	10	Low	20450	829	QPSK	4.78	PASS
B5	10	Low	20450	829	16QAM	6.08	PASS
B5	10	Low	20450	829	64QAM	6.09	PASS
B5	10	Mid	20525	836.5	QPSK	5.02	PASS
B5	10	Mid	20525	836.5	16QAM	6.06	PASS
B5	10	Mid	20525	836.5	64QAM	7.37	PASS
B5	10	High	20600	844	QPSK	5.11	PASS
B5	10	High	20600	844	16QAM	6.12	PASS



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B5	10	High	20600	844	64QAM	6.76	PASS
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LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	Peak to Average Radio(dB)	Verdict
B66	1.4	Low	131979	1710.7	QPSK	4.71	PASS
B66	1.4	Low	131979	1710.7	16QAM	6.03	PASS
B66	1.4	Low	131979	1710.7	64QAM	6.59	PASS
B66	1.4	Mid	132322	1745	QPSK	4.82	PASS
B66	1.4	Mid	132322	1745	16QAM	6.20	PASS
B66	1.4	Mid	132322	1745	64QAM	6.80	PASS
B66	1.4	High	132665	1779.3	QPSK	4.70	PASS
B66	1.4	High	132665	1779.3	16QAM	6.16	PASS
B66	1.4	High	132665	1779.3	64QAM	6.68	PASS
B66	3	Low	131987	1711.5	QPSK	4.76	PASS
B66	3	Low	131987	1711.5	16QAM	6.11	PASS
B66	3	Low	131987	1711.5	64QAM	6.67	PASS
B66	3	Mid	132322	1745	QPSK	4.74	PASS
B66	3	Mid	132322	1745	16QAM	6.25	PASS
B66	3	Mid	132322	1745	64QAM	6.71	PASS
B66	3	High	132657	1778.5	QPSK	4.67	PASS
B66	3	High	132657	1778.5	16QAM	6.10	PASS
B66	3	High	132657	1778.5	64QAM	6.62	PASS
B66	5	Low	131997	1712.5	QPSK	4.89	PASS
B66	5	Low	131997	1712.5	16QAM	6.06	PASS
B66	5	Low	131997	1712.5	64QAM	6.65	PASS
B66	5	Mid	132322	1745	QPSK	4.95	PASS
B66	5	Mid	132322	1745	16QAM	6.02	PASS
B66	5	Mid	132322	1745	64QAM	6.64	PASS
B66	5	High	132647	1777.5	QPSK	4.87	PASS
B66	5	High	132647	1777.5	16QAM	5.91	PASS
B66	5	High	132647	1777.5	64QAM	6.61	PASS
B66	10	Low	132022	1715	QPSK	4.85	PASS
B66	10	Low	132022	1715	16QAM	5.99	PASS
B66	10	Low	132022	1715	64QAM	6.57	PASS
B66	10	Mid	132322	1745	QPSK	4.92	PASS
B66	10	Mid	132322	1745	16QAM	6.09	PASS



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B66	10	Mid	132322	1745	64QAM	6.63	PASS
B66	10	High	132622	1775	QPSK	4.94	PASS
B66	10	High	132622	1775	16QAM	5.94	PASS
B66	10	High	132622	1775	64QAM	6.57	PASS
B66	15	Low	132047	1717.5	QPSK	4.92	PASS
B66	15	Low	132047	1717.5	16QAM	6.23	PASS
B66	15	Low	132047	1717.5	64QAM	6.60	PASS
B66	15	Mid	132322	1745	QPSK	4.85	PASS
B66	15	Mid	132322	1745	16QAM	6.07	PASS
B66	15	Mid	132322	1745	64QAM	6.61	PASS
B66	15	High	132597	1772.5	QPSK	4.84	PASS
B66	15	High	132597	1772.5	16QAM	6.02	PASS
B66	15	High	132597	1772.5	64QAM	6.57	PASS
B66	20	Low	132072	1720	QPSK	4.84	PASS
B66	20	Low	132072	1720	16QAM	5.94	PASS
B66	20	Low	132072	1720	64QAM	6.52	PASS
B66	20	Mid	132322	1745	QPSK	4.87	PASS
B66	20	Mid	132322	1745	16QAM	5.95	PASS
B66	20	Mid	132322	1745	64QAM	6.55	PASS
B66	20	High	132572	1770	QPSK	4.79	PASS
B66	20	High	132572	1770	16QAM	5.82	PASS
B66	20	High	132572	1770	64QAM	6.47	PASS



B2 / 1.4MHz / Low CH / QPSK



B2 / 1.4MHz / Low CH / 16QAM



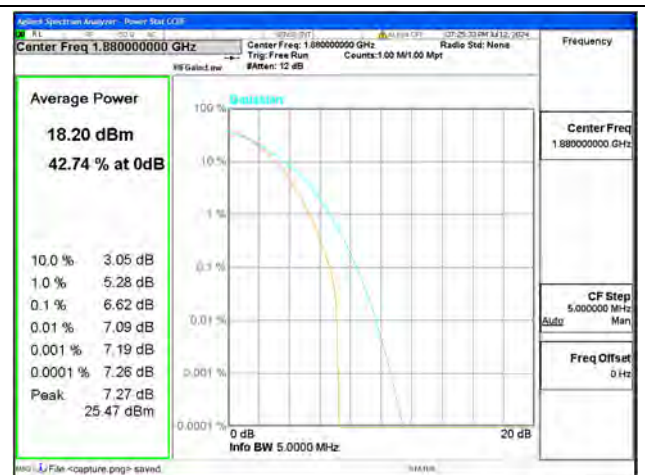
B2 / 1.4MHz / Low CH / 64QAM



B2 / 1.4MHz / Mid CH / QPSK



B2 / 1.4MHz / Mid CH / 16QAM



B2 / 1.4MHz / Mid CH / 64QAM



B2 / 1.4MHz / High CH / QPSK



B2 / 1.4MHz / High CH / 16QAM



B2 / 1.4MHz / High CH / 64QAM



B2 / 3MHz / Low CH / QPSK



B2 / 3MHz / Low CH / 16QAM



B2 / 3MHz / Low CH / 64QAM



B2 / 3MHz / Mid CH / QPSK



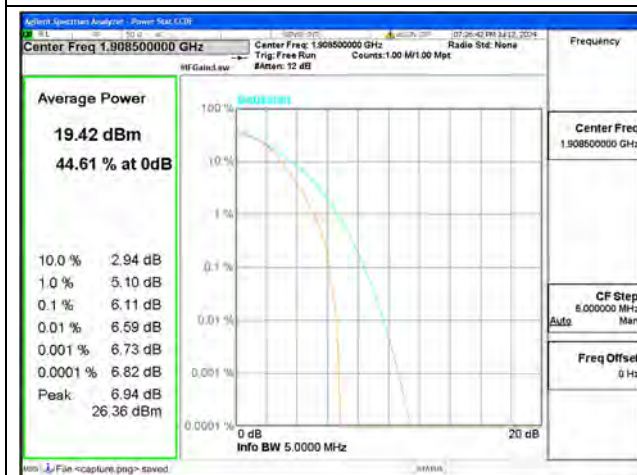
B2 / 3MHz / Mid CH / 16QAM



B2 / 3MHz / Mid CH / 64QAM



B2 / 3MHz / High CH / QPSK



B2 / 3MHz / High CH / 16QAM



B2 / 3MHz / High CH / 64QAM



B2 / 5MHz / Low CH / QPSK



B2 / 5MHz / Low CH / 16QAM



B2 / 5MHz / Low CH / 64QAM



B2 / 5MHz / Mid CH / QPSK



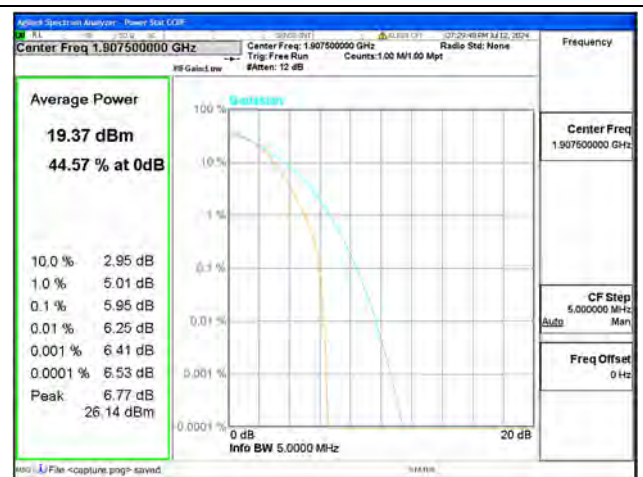
B2 / 5MHz / Mid CH / 16QAM



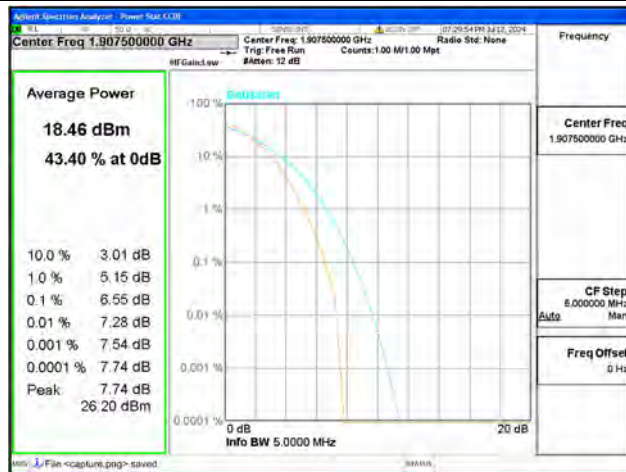
B2 / 5MHz / Mid CH / 64QAM



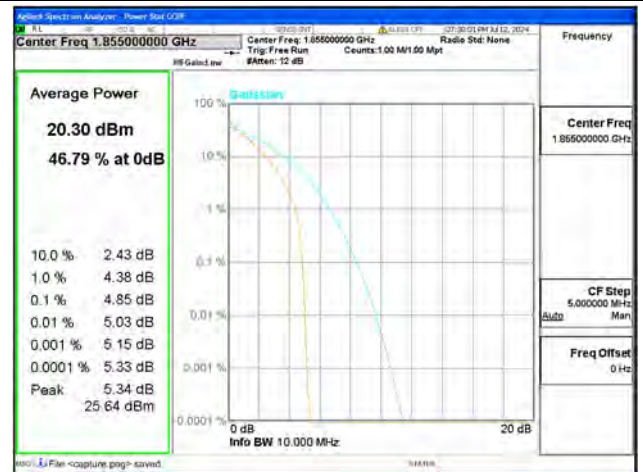
B2 / 5MHz / High CH / QPSK



B2 / 5MHz / High CH / 16QAM



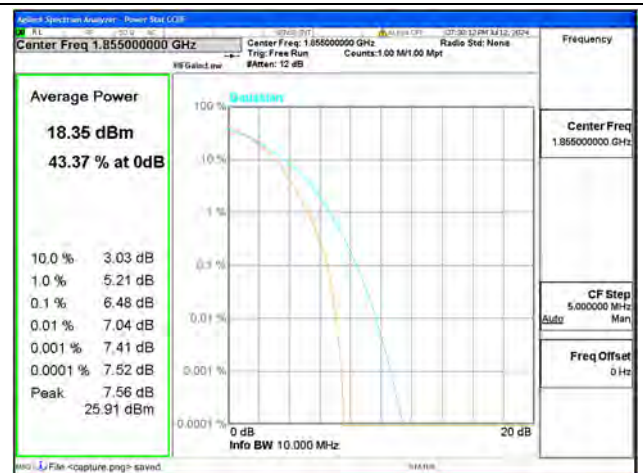
B2 / 5MHz / High CH / 64QAM



B2 / 10MHz / Low CH / QPSK



B2 / 10MHz / Low CH / 16QAM



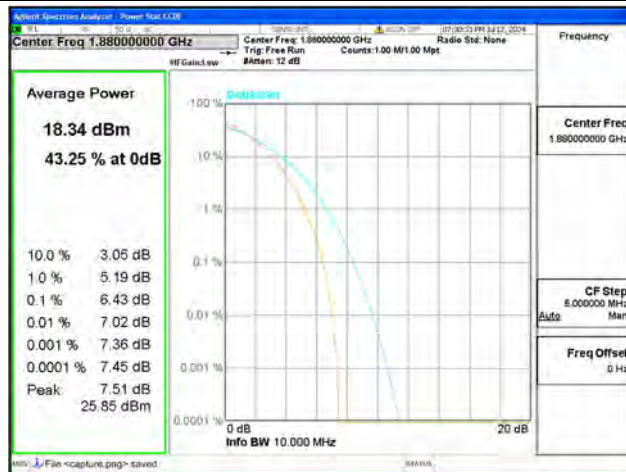
B2 / 10MHz / Low CH / 64QAM



B2 / 10MHz / Mid CH / QPSK



B2 / 10MHz / Mid CH / 16QAM



B2 / 10MHz / Mid CH / 64QAM



B2 / 10MHz / High CH / QPSK



B2 / 10MHz / High CH / 16QAM



B2 / 10MHz / High CH / 64QAM



B2 / 15MHz / Low CH / QPSK



B2 / 15MHz / Low CH / 16QAM



B2 / 15MHz / Low CH / 64QAM



B2 / 15MHz / Mid CH / QPSK



B2 / 15MHz / Mid CH / 16QAM



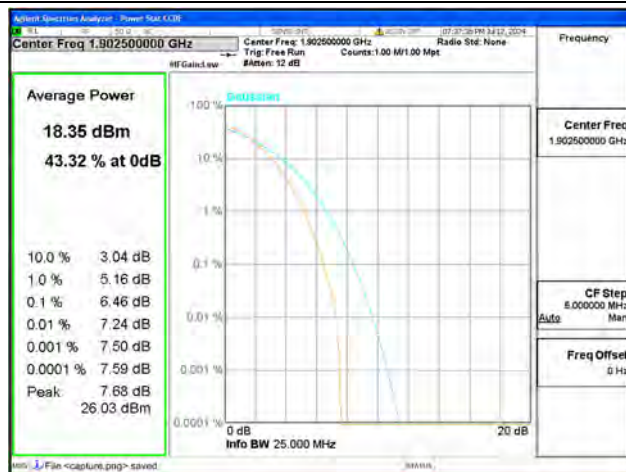
B2 / 15MHz / Mid CH / 64QAM



B2 / 15MHz / High CH / QPSK



B2 / 15MHz / High CH / 16QAM



B2 / 15MHz / High CH / 64QAM



B2 / 20MHz / Low CH / QPSK



B2 / 20MHz / Low CH / 16QAM



B2 / 20MHz / Low CH / 64QAM