



# TEST REPORT

**APPLICANT** : Realme Chongqing Mobile  
Telecommunications Corp., Ltd.

**PRODUCT NAME** : Mobile Phone

**MODEL NAME** : RMX2103

**BRAND NAME** : realme

**FCC ID** : 2AUYFRMX2103

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

**RECEIPT DATE** : 2020-08-03

**TEST DATE** : 2020-08-03 to 2020-08-25

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<b>Change History</b>		
<b>Version</b>	<b>Date</b>	<b>Reason for change</b>
1.0	2020-08-31	First edition



# 1. Technical Information

**Note:** Provide by applicant.

## 1.1. Applicant and Manufacturer Information

<b>Applicant:</b>	Realme Chongqing Mobile Telecommunications Corp., Ltd
<b>Applicant Address:</b>	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing,China
<b>Manufacturer:</b>	Realme Chongqing Mobile Telecommunications Corp., Ltd.
<b>ManufacturerAddress:</b>	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing,China

## 1.2. Equipment Under Test (EUT) Description

<b>Product Name:</b>	Mobile Phone	
<b>Hardware Version:</b>	11	
<b>Software Version:</b>	realme UI V1.0	
<b>Modulation Type:</b>	QPSK,16QAM,64QAM	
<b>Operation Band:</b>	Band 2 / 4 / 5 / 7 / 38 / 40 / 41	
<b>Carrier Aggregation:</b>	B2C, B7C, B38C, B41C(only downlink carrier Aggregation)	
<b>Frequency Range:</b>	LTE Band 2	Tx: 1850MHz – 1910MHz
		Rx: 1930MHz – 1990MHz
	LTE Band 4	Tx: 1710MHz – 1755MHz
		Rx: 2110MHz – 2155MHz
	LTE Band 5	Tx:824MHz - 849MHz
		Rx:869MHz - 894MHz
	LTE Band 7	Tx:2500MHz – 2570MHz
		Rx:2620MHz – 2690MHz
	LTE Band 38	Tx:2570MHz - 2620MHz
		Rx:2570MHz - 2620MHz
	LTE Band 40	Tx: 2305MHz– 2315MHz
		Rx:2305MHz– 2315MHz
Tx: 2350MHz– 2360MHz		
Rx: 2350MHz– 2360MHz		
LTE Band 41	Tx:2535MHz-2655MHz	
	Rx:2535MHz-2655MHz	



<b>Channel Bandwidth</b>	LTE Band 2	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 4	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 5	1.4MHz, 3MHz, 5MHz, 10MHz
	LTE Band 7	5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 38	5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 40	5MHz, 10MHz
	LTE Band 41	5MHz, 10MHz, 15MHz, 20MHz
<b>Antenna Type:</b>	PIFA Antenna	
<b>Antenna Gain:</b>	LTE Band 2	1.10 dBi
	LTE Band 4	1.10 dBi
	LTE Band 5	0.50 dBi
	LTE Band 7	1.10 dBi
	LTE Band 38	1.10 dBi
	LTE Band 40	1.10 dBi
	LTE Band 41	1.10 dBi
<b>Accessory Information:</b>	<b>Battery 1</b>	
	Brand Name:	realme
	Model No.:	BLP803
	Capacity:	4890.00mAh
	Rated Voltage:	3.87V
	Charge Limit:	4.45V
	Manufacturer	SUNWODA Electronic Co., Ltd.
	<b>Battery 2</b>	
	Brand Name:	realme
	Model No.:	BLP803
	Capacity:	4890.00mAh
	Rated Voltage:	3.87V
	Charge Limit:	4.45V
	Manufacturer	Huizhou Desay Battery Co., Ltd.
	<b>Battery 3</b>	
	Brand Name:	realme
	Model No.:	BLP803
	Capacity:	4890.00mAh
	Rated Voltage:	3.87V
	Charge Limit:	4.45V
	Manufacturer	TWS TECHNOLOGY (GUANGZHOU) LIMITED



	<b>AC Adapter 1</b>	
	Brand Name:	realme
	Model No.:	OP92KAUH
	Rated Input:	100-240V ~ 50/60Hz 0.5A
	Rated Output:	9V=2.0A or 5V=2.0A
	Manufacturer	ShenZhen KunXing Technology Co., Ltd
	<b>AC Adapter 2</b>	
	Brand Name:	realme
	Model No.:	OP92KAUH
	Rated Input:	100-240V ~ 50/60Hz 0.5A
	Rated Output:	9V=2.0A or 5V=2.0A
	Manufacturer	Huizhou Golden Lake Industrial 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 ERP/EIRP and Emission Designator

LTE Band2	Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	0.245	0.212	0.200	18M0G7D	18M0W7D	18M0D7W
15	0.244	0.213	0.202	13M5G7D	13M5W7D	13M5D7W
10	0.239	0.211	0.195	9M01G7D	8M95W7D	8M98D7W
5	0.247	0.213	0.205	4M51G7D	4M51W7D	4M50D7W
3	0.244	0.211	0.145	2M70G7D	2M70W7D	2M71D7W
1.4	0.251	0.207	0.138	1M10G7D	1M10W7D	1M10D7W
LTE Band4	Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	0.244	0.210	0.195	18M0G7D	18M0W7D	18M0D7W
15	0.240	0.207	0.192	13M5G7D	13M5W7D	13M5D7W
10	0.237	0.204	0.189	9M00G7D	8M96W7D	8M98D7W
5	0.235	0.202	0.188	4M51G7D	4M51W7D	4M50D7W
3	0.233	0.201	0.096	2M70G7D	2M70W7D	2M71D7W
1.4	0.233	0.200	0.097	1M10G7D	1M10W7D	1M10D7W
LTE Band5	Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.151	0.128	0.120	9M01G7D	8M96W7D	8M99D7W
5	0.151	0.128	0.120	4M51G7D	4M51W7D	4M51D7W
3	0.150	0.127	0.119	2M70G7D	2M70W7D	2M71D7W
1.4	0.151	0.128	0.120	1M10G7D	1M10W7D	1M10D7W
LTE Band7	Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	0.216	0.175	0.177	18M0G7D	18M0W7D	18M0D7W
15	0.205	0.175	0.163	13M5G7D	13M5W7D	13M5D7W
10	0.211	0.194	0.184	9M01G7D	8M97W7D	8M98D7W
5	0.203	0.183	0.166	4M51G7D	4M51W7D	4M50D7W
LTE Band38	Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	0.238	0.204	0.192	18M0G7D	18M0W7D	18M0D7W
15	0.235	0.202	0.199	13M5G7D	13M5W7D	13M5D7W
10	0.233	0.213	0.182	8M99G7D	8M97W7D	8M99D7W
5	0.226	0.189	0.187	4M51G7D	4M52W7D	4M5D7W



LTEBand40 2305MHz   2315MHz	Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.234	0.206	0.195	8M93G7D	8M92W7D	8M92D7W
5	0.232	0.200	0.195	4M49G7D	4M49W7D	4M49D7W
LTE Band40 2350MHz   2360MHz	Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.239	0.213	0.197	8M95G7D	8M93W7D	8M91D7W
5	0.232	0.208	0.197	4M49G7D	4M49W7D	4M50D7W
LTE Band41	Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	0.233	0.208	0.199	18M0G7D	18M0W7D	18M0D7W
15	0.225	0.186	0.181	13M4G7D	13M4W7D	13M4D7W
10	0.230	0.206	0.208	8M93G7D	8M94W7D	8M92D7W
5	0.231	0.212	0.196	4M52G7D	4M52W7D	4M53D7W





## 1.4. Test Standards and Results

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

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



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

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046, 22.913(a)(2), 24.232(c),27.50	Transmitter Conducted Output Power and ERP/EIRP	Aug9	Chen Hao	PASS	No deviation
2.1049	Occupied Bandwidth	Aug 8 to 10, 2020	Zhou xiaolong	PASS	No deviation
2.1055, 22.355, 24.235, 27.54	Frequency Stability	Aug 13 to 15, 2020	Zhou xiaolong	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Aug 6 to 8, 2020	Zhou xiaolong	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53	Conducted Spurious Emissions	Aug 16 to 21, 2020	Zhou xiaolong	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53	Band Edge	Aug 22 to 25 2020	Zhou xiaolong	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53	Radiated Spurious Emissions	Aug 4, 2020	Peng Xuewei	PASS	No deviation

**Note 1:** The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016.

**Note 2:** The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 23.5dB contains two parts that cable loss 13.5dB and Attenuator 10dB.



## 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, 22H, 24E and 27D&L&M Requirements

### 2.1. Transmitter Conducted Output Power And ERP/EIPR

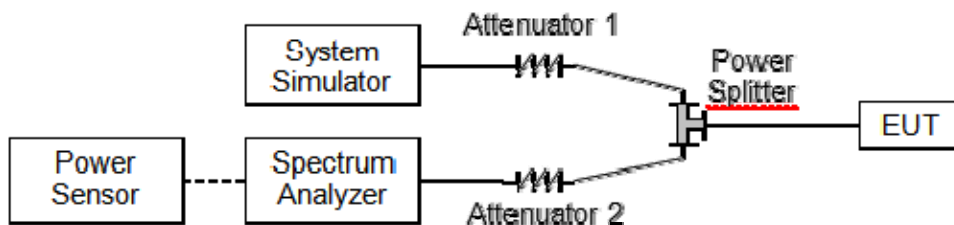
#### 2.1.1. Requirement

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 22.913 (a.2) for LTE Band 5, the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 27.50 (h) for LTE Band 41, Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

#### 2.1.2. Test Descrip



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

#### 2.1.3. Test procedure

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

$EIRP \text{ (dBm)} = \text{Conducted Output Power (dBm)} + \text{Antenna Gain (dBi)}$

$ERP \text{ (dBm)} = EIPR \text{ (dBm)} - 2.15$



2.1.4. Result

Conducted Output Power  
Top Antenna

LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	22.59	22.60	22.43
20	QPSK	1	49	22.80	22.47	22.67
20	QPSK	1	99	22.48	22.41	22.41
20	QPSK	50	0	21.79	21.61	21.53
20	QPSK	50	24	21.62	21.54	21.70
20	QPSK	50	50	21.62	21.47	21.53
20	QPSK	100	0	21.71	21.66	21.59
20	16QAM	1	0	22.04	21.78	21.83
20	16QAM	1	49	21.92	21.76	22.16
20	16QAM	1	99	21.99	21.89	21.72
20	16QAM	50	0	20.79	20.59	20.54
20	16QAM	50	24	20.57	20.59	20.57
20	16QAM	50	50	20.52	20.49	20.39
20	16QAM	100	0	20.66	20.58	20.57
20	64QAM	1	0	21.69	21.57	21.74
20	64QAM	1	49	21.34	21.60	21.90
20	64QAM	1	99	21.59	21.57	21.61
20	64QAM	50	0	20.68	20.64	20.47
20	64QAM	50	24	20.60	20.55	20.56
20	64QAM	50	50	20.54	20.45	20.41
20	64QAM	100	0	20.77	20.65	20.69



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	22.71	22.78	22.74
15	QPSK	1	37	22.72	22.67	22.73
15	QPSK	1	74	22.58	22.73	22.43
15	QPSK	36	0	21.68	21.56	21.57
15	QPSK	36	20	21.73	21.56	21.53
15	QPSK	36	39	21.68	21.47	21.35
15	QPSK	75	0	21.66	21.64	21.60
15	16QAM	1	0	22.04	22.15	21.77
15	16QAM	1	37	22.18	21.84	22.12
15	16QAM	1	74	22.06	22.14	21.70
15	16QAM	36	0	20.78	20.59	20.53
15	16QAM	36	20	20.79	20.50	20.51
15	16QAM	36	39	20.57	20.47	20.31
15	16QAM	75	0	20.70	20.54	20.57
15	64QAM	1	0	21.60	21.59	21.72
15	64QAM	1	37	21.96	21.93	21.65
15	64QAM	1	74	21.54	21.60	21.69
15	64QAM	36	0	20.61	20.55	20.58
15	64QAM	36	20	20.76	20.55	20.55
15	64QAM	36	39	20.68	20.42	20.39
15	64QAM	75	0	20.69	20.50	20.38



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	22.48	22.63	22.44
10	QPSK	1	25	22.67	22.52	22.67
10	QPSK	1	49	22.68	22.41	22.46
10	QPSK	25	0	21.68	21.66	21.51
10	QPSK	25	12	21.65	21.47	21.44
10	QPSK	25	25	21.73	21.56	21.75
10	QPSK	50	0	21.64	21.51	21.45
10	16QAM	1	0	22.09	21.94	22.14
10	16QAM	1	25	21.92	21.71	21.65
10	16QAM	1	49	21.95	21.84	21.67
10	16QAM	25	0	20.36	20.60	20.43
10	16QAM	25	12	20.69	20.48	20.44
10	16QAM	25	25	20.70	20.61	20.54
10	16QAM	50	0	20.79	20.61	20.65
10	64QAM	1	0	21.44	21.75	21.80
10	64QAM	1	25	21.79	21.61	21.32
10	64QAM	1	49	21.78	21.38	21.34
10	64QAM	25	0	20.29	20.66	20.56
10	64QAM	25	12	20.66	20.48	20.39
10	64QAM	25	25	20.72	20.55	20.53
10	64QAM	50	0	20.62	20.58	20.56



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	22.82	22.66	22.66
5	QPSK	1	12	22.74	22.57	22.63
5	QPSK	1	24	22.83	22.70	22.76
5	QPSK	12	0	21.73	21.60	21.59
5	QPSK	12	7	21.76	21.60	21.53
5	QPSK	12	13	21.66	21.55	21.62
5	QPSK	25	0	21.89	21.54	21.60
5	16QAM	1	0	21.95	22.10	22.16
5	16QAM	1	12	21.74	21.71	22.06
5	16QAM	1	24	21.95	22.18	21.71
5	16QAM	12	0	20.75	20.65	20.61
5	16QAM	12	7	20.74	20.67	20.55
5	16QAM	12	13	20.76	20.54	20.33
5	16QAM	25	0	20.70	20.59	20.50
5	64QAM	1	0	21.88	21.71	21.89
5	64QAM	1	12	21.97	22.02	21.80
5	64QAM	1	24	21.97	21.84	21.59
5	64QAM	12	0	20.63	20.47	20.71
5	64QAM	12	7	20.81	20.49	20.42
5	64QAM	12	13	20.78	20.66	20.35
5	64QAM	25	0	20.84	20.51	20.52





LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	22.77	22.47	22.50
3	QPSK	1	8	22.73	22.52	22.50
3	QPSK	1	14	22.72	22.54	22.32
3	QPSK	8	0	21.75	21.62	21.73
3	QPSK	8	4	21.82	21.50	21.75
3	QPSK	8	7	21.80	21.45	21.50
3	QPSK	15	0	21.74	21.48	21.59
3	16QAM	1	0	22.13	22.04	21.82
3	16QAM	1	8	21.91	21.93	21.77
3	16QAM	1	14	22.14	21.75	21.89
3	16QAM	8	0	20.53	20.49	20.56
3	16QAM	8	4	20.82	20.60	20.53
3	16QAM	8	7	20.65	20.55	20.62
3	16QAM	15	0	20.69	20.65	20.67
3	64QAM	1	0	20.38	20.21	20.39
3	64QAM	1	8	20.47	20.52	20.30
3	64QAM	1	14	20.47	20.34	20.09
3	64QAM	8	0	19.13	18.97	19.21
3	64QAM	8	4	19.31	18.99	18.92
3	64QAM	8	7	19.28	19.16	18.85
3	64QAM	15	0	19.34	19.01	19.02



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	22.72	22.53	22.54
1.4	QPSK	1	3	22.56	22.70	22.78
1.4	QPSK	1	5	22.61	22.46	22.67
1.4	QPSK	3	0	22.64	22.45	22.89
1.4	QPSK	3	1	22.69	22.69	22.57
1.4	QPSK	3	3	22.83	22.56	22.57
1.4	QPSK	6	0	21.69	21.42	21.53
1.4	16QAM	1	0	22.03	21.67	21.96
1.4	16QAM	1	3	21.70	22.06	21.64
1.4	16QAM	1	5	21.84	21.96	21.87
1.4	16QAM	3	0	21.72	21.60	21.61
1.4	16QAM	3	1	21.73	21.63	21.47
1.4	16QAM	3	3	21.82	21.37	21.81
1.4	16QAM	6	0	20.60	20.50	20.67
1.4	64QAM	1	0	19.94	20.25	20.30
1.4	64QAM	1	3	20.29	20.11	19.82
1.4	64QAM	1	5	20.28	19.88	19.84
1.4	64QAM	3	0	18.79	19.16	19.06
1.4	64QAM	3	1	19.16	18.98	18.89
1.4	64QAM	3	3	19.22	19.05	19.03
1.4	64QAM	6	0	19.12	19.08	19.06



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	22.42	22.45	22.52
20	QPSK	1	49	22.36	22.39	22.39
20	QPSK	1	99	22.56	22.78	22.74
20	QPSK	50	0	21.46	21.47	21.67
20	QPSK	50	24	21.49	21.47	21.47
20	QPSK	50	50	21.49	21.56	21.47
20	QPSK	100	0	21.57	21.50	21.57
20	16QAM	1	0	21.67	21.75	21.64
20	16QAM	1	49	21.67	21.84	21.69
20	16QAM	1	99	22.03	21.66	22.13
20	16QAM	50	0	20.55	20.40	20.49
20	16QAM	50	24	20.48	20.43	20.43
20	16QAM	50	50	20.51	20.48	20.52
20	16QAM	100	0	20.51	20.44	20.47
20	64QAM	1	0	21.69	21.70	21.50
20	64QAM	1	49	21.41	21.33	21.36
20	64QAM	1	99	21.70	21.81	21.72
20	64QAM	50	0	20.51	20.37	20.51
20	64QAM	50	24	20.40	20.41	20.47
20	64QAM	50	50	20.62	20.48	20.61
20	64QAM	100	0	20.53	20.44	20.54



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	22.35	22.38	22.45
15	QPSK	1	37	22.29	22.32	22.32
15	QPSK	1	74	22.49	22.71	22.67
15	QPSK	36	0	21.39	21.40	21.60
15	QPSK	36	20	21.42	21.40	21.40
15	QPSK	36	39	21.42	21.49	21.40
15	QPSK	75	0	21.50	21.43	21.50
15	16QAM	1	0	21.60	21.68	21.57
15	16QAM	1	37	21.60	21.77	21.62
15	16QAM	1	74	21.96	21.59	22.06
15	16QAM	36	0	20.48	20.33	20.42
15	16QAM	36	20	20.41	20.36	20.36
15	16QAM	36	39	20.44	20.41	20.45
15	16QAM	75	0	20.44	20.37	20.40
15	64QAM	1	0	21.62	21.63	21.43
15	64QAM	1	37	21.34	21.26	21.29
15	64QAM	1	74	21.63	21.74	21.65
15	64QAM	36	0	20.44	20.30	20.44
15	64QAM	36	20	20.33	20.34	20.40
15	64QAM	36	39	20.55	20.41	20.54
15	64QAM	75	0	20.46	20.37	20.47



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	22.28	22.31	22.38
10	QPSK	1	25	22.22	22.25	22.25
10	QPSK	1	49	22.42	22.64	22.60
10	QPSK	25	0	21.32	21.33	21.53
10	QPSK	25	12	21.35	21.33	21.33
10	QPSK	25	25	21.35	21.42	21.33
10	QPSK	50	0	21.43	21.36	21.43
10	16QAM	1	0	21.53	21.61	21.50
10	16QAM	1	25	21.53	21.70	21.55
10	16QAM	1	49	21.89	21.52	21.99
10	16QAM	25	0	20.41	20.26	20.35
10	16QAM	25	12	20.34	20.29	20.29
10	16QAM	25	25	20.37	20.34	20.38
10	16QAM	50	0	20.37	20.30	20.33
10	64QAM	1	0	21.55	21.56	21.36
10	64QAM	1	25	21.27	21.19	21.22
10	64QAM	1	49	21.56	21.67	21.58
10	64QAM	25	0	20.37	20.23	20.37
10	64QAM	25	12	20.26	20.27	20.33
10	64QAM	25	25	20.48	20.34	20.47
10	64QAM	50	0	20.39	20.30	20.40



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	22.25	22.28	22.35
5	QPSK	1	12	22.19	22.22	22.22
5	QPSK	1	24	22.39	22.61	22.57
5	QPSK	12	0	21.29	21.30	21.50
5	QPSK	12	7	21.32	21.30	21.30
5	QPSK	12	13	21.32	21.39	21.30
5	QPSK	25	0	21.40	21.33	21.40
5	16QAM	1	0	21.50	21.58	21.47
5	16QAM	1	12	21.50	21.67	21.52
5	16QAM	1	24	21.86	21.49	21.96
5	16QAM	12	0	20.38	20.23	20.32
5	16QAM	12	7	20.31	20.26	20.26
5	16QAM	12	13	20.34	20.31	20.35
5	16QAM	25	0	20.34	20.27	20.30
5	64QAM	1	0	21.52	21.53	21.33
5	64QAM	1	12	21.24	21.16	21.19
5	64QAM	1	24	21.53	21.64	21.55
5	64QAM	12	0	20.34	20.20	20.34
5	64QAM	12	7	20.23	20.24	20.30
5	64QAM	12	13	20.45	20.31	20.44
5	64QAM	25	0	20.36	20.27	20.37



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	22.22	22.25	22.32
3	QPSK	1	8	22.16	22.19	22.19
3	QPSK	1	14	22.36	22.58	22.54
3	QPSK	8	0	21.26	21.27	21.47
3	QPSK	8	4	21.29	21.27	21.27
3	QPSK	8	7	21.29	21.36	21.27
3	QPSK	15	0	21.37	21.30	21.37
3	16QAM	1	0	21.47	21.55	21.44
3	16QAM	1	8	21.47	21.64	21.49
3	16QAM	1	14	21.83	21.46	21.93
3	16QAM	8	0	20.35	20.20	20.29
3	16QAM	8	4	20.28	20.23	20.23
3	16QAM	8	7	20.31	20.28	20.32
3	16QAM	15	0	20.31	20.24	20.27
3	64QAM	1	0	18.74	18.02	17.73
3	64QAM	1	8	18.71	18.18	17.89
3	64QAM	1	14	18.71	18.24	17.81
3	64QAM	8	0	17.72	17.36	16.82
3	64QAM	8	4	17.72	17.15	16.83
3	64QAM	8	7	17.58	16.99	16.77
3	64QAM	15	0	17.74	17.16	16.83



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	22.21	22.24	22.31
1.4	QPSK	1	3	22.15	22.18	22.18
1.4	QPSK	1	5	22.35	22.57	22.53
1.4	QPSK	3	0	21.25	21.26	21.46
1.4	QPSK	3	1	21.28	21.26	21.26
1.4	QPSK	3	3	21.28	21.35	21.26
1.4	QPSK	6	0	21.36	21.29	21.36
1.4	16QAM	1	0	21.46	21.54	21.43
1.4	16QAM	1	3	21.46	21.63	21.48
1.4	16QAM	1	5	21.82	21.45	21.92
1.4	16QAM	3	0	20.34	20.19	20.28
1.4	16QAM	3	1	20.27	20.22	20.22
1.4	16QAM	3	3	20.30	20.27	20.31
1.4	16QAM	6	0	20.30	20.23	20.26
1.4	64QAM	1	0	18.67	18.18	17.82
1.4	64QAM	1	3	18.76	18.24	17.78
1.4	64QAM	1	5	18.65	18.08	17.66
1.4	64QAM	3	0	18.57	18.07	17.70
1.4	64QAM	3	1	18.76	17.95	17.57
1.4	64QAM	3	3	18.65	18.10	17.91
1.4	64QAM	6	0	17.57	17.15	16.61





LTE Band5						
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	23.01	23.09	22.97
10	QPSK	1	25	23.03	23.10	22.96
10	QPSK	1	49	23.45	23.38	23.17
10	QPSK	25	0	22.02	22.04	22.34
10	QPSK	25	12	22.01	21.97	21.85
10	QPSK	25	25	22.13	21.96	21.94
10	QPSK	50	0	21.96	22.05	22.01
10	16QAM	1	0	22.73	22.72	22.64
10	16QAM	1	25	22.63	22.68	22.57
10	16QAM	1	49	22.61	22.40	22.24
10	16QAM	25	0	20.91	21.01	21.00
10	16QAM	25	12	21.05	20.94	20.85
10	16QAM	25	25	21.01	21.02	20.85
10	16QAM	50	0	20.99	21.03	20.96
10	64QAM	1	0	22.31	22.43	22.30
10	64QAM	1	25	22.26	22.06	22.45
10	64QAM	1	49	22.06	22.34	22.15
10	64QAM	25	0	20.97	20.94	20.97
10	64QAM	25	12	21.03	20.93	20.91
10	64QAM	25	25	20.95	20.94	20.82
10	64QAM	50	0	20.90	20.97	20.96



LTE Band5						
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	22.99	23.07	22.95
5	QPSK	1	12	23.01	23.08	22.94
5	QPSK	1	24	23.43	23.36	23.15
5	QPSK	12	0	22.00	22.02	22.32
5	QPSK	12	7	21.99	21.95	21.83
5	QPSK	12	13	22.11	21.94	21.92
5	QPSK	25	0	21.94	22.03	21.99
5	16QAM	1	0	22.71	22.70	22.62
5	16QAM	1	12	22.61	22.66	22.55
5	16QAM	1	24	22.59	22.38	22.22
5	16QAM	12	0	20.89	20.99	20.98
5	16QAM	12	7	21.03	20.92	20.83
5	16QAM	12	13	20.99	21.00	20.83
5	16QAM	25	0	20.97	21.01	20.94
5	64QAM	1	0	22.29	22.41	22.28
5	64QAM	1	12	22.24	22.04	22.43
5	64QAM	1	24	22.04	22.32	22.13
5	64QAM	12	0	20.95	20.92	20.95
5	64QAM	12	7	21.01	20.91	20.89
5	64QAM	12	13	20.93	20.92	20.80
5	64QAM	25	0	20.88	20.95	20.94



LTE Band5						
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	22.98	23.06	22.94
3	QPSK	1	8	23.00	23.07	22.93
3	QPSK	1	14	23.42	23.35	23.14
3	QPSK	8	0	21.99	22.01	22.31
3	QPSK	8	4	21.98	21.94	21.82
3	QPSK	8	7	22.10	21.93	21.91
3	QPSK	15	0	21.93	22.02	21.98
3	16QAM	1	0	22.70	22.69	22.61
3	16QAM	1	8	22.60	22.65	22.54
3	16QAM	1	14	22.58	22.37	22.21
3	16QAM	8	0	20.88	20.98	20.97
3	16QAM	8	4	21.02	20.91	20.82
3	16QAM	8	7	20.98	20.99	20.82
3	16QAM	15	0	20.96	21.00	20.93
3	64QAM	1	0	22.28	22.40	22.27
3	64QAM	1	8	22.23	22.03	22.42
3	64QAM	1	14	22.03	22.31	22.12
3	64QAM	8	0	20.94	20.91	20.94
3	64QAM	8	4	21.00	20.90	20.88
3	64QAM	8	7	20.92	20.91	20.79
3	64QAM	15	0	20.87	20.94	20.93



LTE Band5						
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	23.00	23.08	22.96
1.4	QPSK	1	3	23.02	23.09	22.95
1.4	QPSK	1	5	23.44	23.37	23.16
1.4	QPSK	3	0	22.01	22.03	22.33
1.4	QPSK	3	1	22.00	21.96	21.84
1.4	QPSK	3	3	22.12	21.95	21.93
1.4	QPSK	6	0	21.95	22.04	22.00
1.4	16QAM	1	0	22.72	22.71	22.63
1.4	16QAM	1	3	22.62	22.67	22.56
1.4	16QAM	1	5	22.60	22.39	22.23
1.4	16QAM	3	0	20.90	21.00	20.99
1.4	16QAM	3	1	21.04	20.93	20.84
1.4	16QAM	3	3	21.00	21.01	20.84
1.4	16QAM	6	0	20.98	21.02	20.95
1.4	64QAM	1	0	22.30	22.42	22.29
1.4	64QAM	1	3	22.25	22.05	22.44
1.4	64QAM	1	5	22.05	22.33	22.14
1.4	64QAM	3	0	20.96	20.93	20.96
1.4	64QAM	3	1	21.02	20.92	20.90
1.4	64QAM	3	3	20.94	20.93	20.81
1.4	64QAM	6	0	20.89	20.96	20.95



LTE Band7						
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	21.82	22.00	21.97
20	QPSK	1	49	21.97	21.81	21.79
20	QPSK	1	99	22.24	21.75	21.84
20	QPSK	50	0	20.93	20.87	20.94
20	QPSK	50	24	21.08	21.06	20.94
20	QPSK	50	50	21.02	20.88	20.87
20	QPSK	100	0	21.00	20.98	20.93
20	16QAM	1	0	21.06	21.01	20.89
20	16QAM	1	49	21.28	21.02	21.33
20	16QAM	1	99	21.14	20.90	21.25
20	16QAM	50	0	19.94	19.93	19.86
20	16QAM	50	24	19.95	19.96	19.95
20	16QAM	50	50	19.99	19.74	19.89
20	16QAM	100	0	19.99	20.05	19.92
20	64QAM	1	0	21.04	21.12	21.28
20	64QAM	1	49	20.97	21.28	21.06
20	64QAM	1	99	21.37	20.99	20.99
20	64QAM	50	0	19.88	19.89	19.91
20	64QAM	50	24	19.98	19.98	19.95
20	64QAM	50	50	19.99	19.90	19.85
20	64QAM	100	0	19.95	19.90	19.95



LTE Band7						
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	21.85	21.80	21.87
15	QPSK	1	37	21.77	21.96	21.89
15	QPSK	1	74	22.01	21.81	21.80
15	QPSK	36	0	20.98	20.94	20.88
15	QPSK	36	20	21.00	20.98	20.94
15	QPSK	36	39	20.98	20.70	20.89
15	QPSK	75	0	20.95	20.91	20.97
15	16QAM	1	0	20.89	21.02	21.05
15	16QAM	1	37	21.30	21.15	20.88
15	16QAM	1	74	21.32	20.98	21.31
15	16QAM	36	0	19.96	19.88	19.80
15	16QAM	36	20	20.00	19.91	19.93
15	16QAM	36	39	19.97	19.94	19.83
15	16QAM	75	0	19.94	19.97	19.94
15	64QAM	1	0	20.97	20.94	20.99
15	64QAM	1	37	20.72	20.94	21.01
15	64QAM	1	74	20.75	20.84	20.91
15	64QAM	36	0	19.95	19.86	19.71
15	64QAM	36	20	19.88	19.87	19.90
15	64QAM	36	39	19.99	19.89	19.83
15	64QAM	75	0	19.94	19.95	19.95



LTE Band7						
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	22.04	22.11	22.12
10	QPSK	1	25	22.15	22.09	22.01
10	QPSK	1	49	22.02	22.14	22.12
10	QPSK	25	0	21.21	21.15	21.10
10	QPSK	25	12	21.13	21.12	21.05
10	QPSK	25	25	21.04	21.19	21.03
10	QPSK	50	0	21.20	21.17	21.12
10	16QAM	1	0	21.74	21.78	21.48
10	16QAM	1	25	21.62	21.64	21.48
10	16QAM	1	49	21.40	21.40	21.59
10	16QAM	25	0	20.18	20.17	20.20
10	16QAM	25	12	20.11	20.04	20.03
10	16QAM	25	25	20.08	20.22	19.98
10	16QAM	50	0	20.19	20.05	20.12
10	64QAM	1	0	21.21	21.55	21.53
10	64QAM	1	25	21.27	21.35	21.15
10	64QAM	1	49	21.29	21.12	21.18
10	64QAM	25	0	20.10	20.06	20.10
10	64QAM	25	12	20.17	20.18	20.15
10	64QAM	25	25	20.10	20.16	20.00
10	64QAM	50	0	20.15	20.22	20.06



LTE Band7						
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	21.95	21.72	21.98
5	QPSK	1	12	21.92	21.76	21.83
5	QPSK	1	24	21.78	21.91	21.76
5	QPSK	12	0	20.85	20.83	20.81
5	QPSK	12	7	20.82	20.86	20.83
5	QPSK	12	13	20.81	20.89	20.82
5	QPSK	25	0	20.85	20.82	20.78
5	16QAM	1	0	21.15	21.05	21.53
5	16QAM	1	12	21.04	21.34	21.28
5	16QAM	1	24	21.24	21.12	21.49
5	16QAM	12	0	19.85	19.86	19.91
5	16QAM	12	7	19.84	19.77	19.73
5	16QAM	12	13	19.83	19.82	19.83
5	16QAM	25	0	19.94	19.88	19.84
5	64QAM	1	0	20.77	21.09	20.81
5	64QAM	1	12	20.81	21.01	20.80
5	64QAM	1	24	21.09	21.08	20.75
5	64QAM	12	0	19.82	19.87	19.77
5	64QAM	12	7	19.82	19.99	19.77
5	64QAM	12	13	19.78	19.81	19.85
5	64QAM	25	0	19.78	19.85	19.83





LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37850	38000	38150
Frequency (MHz)				2580	2595	2610
20	QPSK	1	0	22.18	22.67	22.21
20	QPSK	1	49	22.37	22.21	22.18
20	QPSK	1	99	22.42	22.36	22.45
20	QPSK	50	0	21.45	21.38	21.48
20	QPSK	50	24	21.32	21.46	21.21
20	QPSK	50	50	21.47	21.51	21.34
20	QPSK	100	0	21.41	21.43	21.36
20	16QAM	1	0	21.62	21.74	21.53
20	16QAM	1	49	21.56	21.66	21.55
20	16QAM	1	99	22.00	21.60	21.68
20	16QAM	50	0	20.52	20.44	20.46
20	16QAM	50	24	20.52	20.43	20.37
20	16QAM	50	50	20.59	20.48	20.52
20	16QAM	100	0	20.52	20.51	20.44
20	64QAM	1	0	21.36	21.61	21.52
20	64QAM	1	49	21.73	21.65	21.73
20	64QAM	1	99	21.60	21.54	21.45
20	64QAM	50	0	20.34	20.34	20.29
20	64QAM	50	24	20.23	20.45	20.21
20	64QAM	50	50	20.41	20.53	20.26
20	64QAM	100	0	20.54	20.33	20.55



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37825	38000	38175
Frequency (MHz)				2577.5	2595	2612.5
15	QPSK	1	0	22.36	22.43	22.60
15	QPSK	1	37	22.44	22.31	22.30
15	QPSK	1	74	22.59	22.61	22.33
15	QPSK	36	0	21.31	21.46	21.34
15	QPSK	36	20	21.55	21.23	21.23
15	QPSK	36	39	21.61	21.48	21.39
15	QPSK	75	0	21.36	21.28	21.32
15	16QAM	1	0	21.96	21.83	21.68
15	16QAM	1	37	21.66	21.53	21.72
15	16QAM	1	74	21.80	21.67	21.94
15	16QAM	36	0	20.34	20.39	20.37
15	16QAM	36	20	20.42	20.27	20.26
15	16QAM	36	39	20.45	20.42	20.42
15	16QAM	75	0	20.37	20.45	20.30
15	64QAM	1	0	21.41	21.72	21.78
15	64QAM	1	37	21.84	21.88	21.42
15	64QAM	1	74	21.56	21.54	21.59
15	64QAM	36	0	20.37	20.40	20.40
15	64QAM	36	20	20.44	20.19	20.28
15	64QAM	36	39	20.60	20.34	20.45
15	64QAM	75	0	20.35	20.42	20.29



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37800	38000	38200
Frequency (MHz)				2575	2595	2615
10	QPSK	1	0	22.41	22.27	22.42
10	QPSK	1	25	22.45	22.53	22.49
10	QPSK	1	49	22.57	22.58	22.52
10	QPSK	25	0	21.62	21.58	21.53
10	QPSK	25	12	21.67	21.66	21.55
10	QPSK	25	25	21.61	21.64	21.63
10	QPSK	50	0	21.61	21.53	21.53
10	16QAM	1	0	22.08	22.03	22.06
10	16QAM	1	25	22.01	21.72	21.72
10	16QAM	1	49	22.19	21.73	22.13
10	16QAM	25	0	20.63	20.74	20.72
10	16QAM	25	12	20.68	20.67	20.45
10	16QAM	25	25	20.77	20.74	20.72
10	16QAM	50	0	20.74	20.43	20.62
10	64QAM	1	0	21.13	21.50	21.09
10	64QAM	1	25	21.22	21.41	21.16
10	64QAM	1	49	21.06	21.15	21.10
10	64QAM	25	0	20.11	20.53	20.18
10	64QAM	25	12	20.14	20.46	20.21
10	64QAM	25	25	20.07	20.36	20.12
10	64QAM	50	0	20.07	20.41	20.19



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37775	38000	38225
Frequency (MHz)				2572.5	2595	2617.5
5	QPSK	1	0	22.13	22.45	22.11
5	QPSK	1	12	22.25	22.38	22.10
5	QPSK	1	24	22.06	22.08	22.01
5	QPSK	12	0	21.30	21.56	21.28
5	QPSK	12	7	21.31	21.58	21.32
5	QPSK	12	13	21.25	21.47	21.23
5	QPSK	25	0	21.23	21.51	21.29
5	16QAM	1	0	21.32	21.63	21.32
5	16QAM	1	12	21.47	21.67	21.40
5	16QAM	1	24	21.30	21.39	21.34
5	16QAM	12	0	20.29	20.71	20.36
5	16QAM	12	7	20.32	20.64	20.39
5	16QAM	12	13	20.26	20.54	20.30
5	16QAM	25	0	20.26	20.61	20.38
5	64QAM	1	0	21.25	21.62	21.21
5	64QAM	1	12	21.34	21.53	21.28
5	64QAM	1	24	21.18	21.27	21.22
5	64QAM	12	0	20.23	20.65	20.30
5	64QAM	12	7	20.26	20.58	20.33
5	64QAM	12	13	20.19	20.48	20.24
5	64QAM	25	0	20.19	20.53	20.31



LTE Band 40 (2305MHz ~ 2315MHz)						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	38750	/
Frequency (MHz)				/	2310	/
10	QPSK	1	0	/	22.48	/
10	QPSK	1	25	/	22.51	/
10	QPSK	1	49	/	22.59	/
10	QPSK	25	0	/	21.53	/
10	QPSK	25	12	/	21.48	/
10	QPSK	25	25	/	21.42	/
10	QPSK	50	0	/	21.64	/
10	16QAM	1	0	/	21.90	/
10	16QAM	1	25	/	22.01	/
10	16QAM	1	49	/	22.04	/
10	16QAM	25	0	/	20.61	/
10	16QAM	25	12	/	20.68	/
10	16QAM	25	25	/	20.52	/
10	16QAM	50	0	/	20.56	/
10	64QAM	1	0	/	21.32	/
10	64QAM	1	25	/	21.61	/
10	64QAM	1	49	/	21.79	/
10	64QAM	25	0	/	20.53	/
10	64QAM	25	12	/	20.60	/
10	64QAM	25	25	/	20.45	/
10	64QAM	50	0	/	20.49	/



LTE Band 40 (2305MHz ~ 2315MHz)						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				38725	38750	38775
Frequency (MHz)				2307.5	2310	2312.5
5	QPSK	1	0	22.35	22.56	22.29
5	QPSK	1	12	22.46	22.44	22.43
5	QPSK	1	24	22.40	22.42	22.39
5	QPSK	12	0	21.53	21.59	21.60
5	QPSK	12	7	21.48	21.60	21.50
5	QPSK	12	13	21.42	21.57	21.36
5	QPSK	25	0	21.50	21.43	21.43
5	16QAM	1	0	21.79	21.69	21.78
5	16QAM	1	12	21.86	21.91	21.47
5	16QAM	1	24	21.64	21.89	21.69
5	16QAM	12	0	20.52	20.64	20.54
5	16QAM	12	7	20.48	20.53	20.44
5	16QAM	12	13	20.54	20.51	20.41
5	16QAM	25	0	20.53	20.49	20.50
5	64QAM	1	0	21.38	21.79	21.68
5	64QAM	1	12	21.56	21.59	21.60
5	64QAM	1	24	21.70	21.59	21.58
5	64QAM	12	0	20.54	20.48	20.48
5	64QAM	12	7	20.52	20.48	20.40
5	64QAM	12	13	20.46	20.43	20.35
5	64QAM	25	0	20.46	20.52	20.43



LTE Band 40 (2350MHz ~ 2360MHz)						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	39200	/
Frequency (MHz)				/	2355	/
10	QPSK	1	0	/	22.38	/
10	QPSK	1	25	/	22.57	/
10	QPSK	1	49	/	22.69	/
10	QPSK	25	0	/	21.59	/
10	QPSK	25	12	/	21.57	/
10	QPSK	25	25	/	21.68	/
10	QPSK	50	0	/	21.53	/
10	16QAM	1	0	/	22.16	/
10	16QAM	1	25	/	21.87	/
10	16QAM	1	49	/	22.19	/
10	16QAM	25	0	/	20.58	/
10	16QAM	25	12	/	20.56	/
10	16QAM	25	25	/	20.71	/
10	16QAM	50	0	/	20.53	/
10	64QAM	1	0	/	21.35	/
10	64QAM	1	25	/	21.63	/
10	64QAM	1	49	/	21.85	/
10	64QAM	25	0	/	20.61	/
10	64QAM	25	12	/	20.57	/
10	64QAM	25	25	/	20.63	/
10	64QAM	50	0	/	20.65	/



LTE Band 40 (2350MHz ~ 2360MHz)						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39175	39200	39225
Frequency (MHz)				2352.5	2355	2357.5
5	QPSK	1	0	22.44	22.34	22.56
5	QPSK	1	12	22.43	22.46	22.54
5	QPSK	1	24	22.45	22.45	22.52
5	QPSK	12	0	21.53	21.60	21.65
5	QPSK	12	7	21.50	21.53	21.63
5	QPSK	12	13	21.45	21.56	21.56
5	QPSK	25	0	21.56	21.47	21.56
5	16QAM	1	0	22.08	21.88	21.96
5	16QAM	1	12	22.05	21.74	21.83
5	16QAM	1	24	21.59	21.64	22.00
5	16QAM	12	0	20.61	20.63	20.80
5	16QAM	12	7	20.54	20.68	20.56
5	16QAM	12	13	20.55	20.60	20.61
5	16QAM	25	0	20.69	20.52	20.62
5	64QAM	1	0	21.39	21.68	21.85
5	64QAM	1	12	21.50	21.79	21.59
5	64QAM	1	24	21.66	21.69	21.70
5	64QAM	12	0	20.63	20.56	20.54
5	64QAM	12	7	20.48	20.62	20.51
5	64QAM	12	13	20.47	20.62	20.55
5	64QAM	25	0	20.50	20.56	20.56





LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				40140	40640	41140
Frequency (MHz)				2545	2595	2645
20	QPSK	1	0	22.54	22.29	22.28
20	QPSK	1	49	22.53	22.23	22.19
20	QPSK	1	99	22.58	22.40	22.15
20	QPSK	50	0	21.47	21.55	21.35
20	QPSK	50	24	21.65	21.56	21.32
20	QPSK	50	50	21.54	21.51	21.27
20	QPSK	100	0	21.47	21.47	21.54
20	16QAM	1	0	22.09	21.75	21.63
20	16QAM	1	49	21.75	21.85	21.62
20	16QAM	1	99	21.98	21.62	21.60
20	16QAM	50	0	20.55	20.52	20.49
20	16QAM	50	24	20.63	20.48	20.39
20	16QAM	50	50	20.45	20.61	20.35
20	16QAM	100	0	20.68	20.63	20.59
20	64QAM	1	0	21.47	21.73	21.52
20	64QAM	1	49	21.88	21.81	21.38
20	64QAM	1	99	21.84	21.56	21.45
20	64QAM	50	0	20.57	20.53	20.42
20	64QAM	50	24	20.65	20.58	20.32
20	64QAM	50	50	20.58	20.32	20.28
20	64QAM	100	0	20.71	20.58	20.28



LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				40115	40640	41165
Frequency (MHz)				2542.5	2595	2647.5
15	QPSK	1	0	22.43	22.29	22.13
15	QPSK	1	37	22.41	22.41	22.11
15	QPSK	1	74	21.97	22.03	22.11
15	QPSK	36	0	21.52	21.62	21.37
15	QPSK	36	20	21.57	21.32	21.14
15	QPSK	36	39	21.13	21.21	21.18
15	QPSK	75	0	21.41	21.20	21.04
15	16QAM	1	0	21.59	21.27	21.14
15	16QAM	1	37	21.58	21.19	21.11
15	16QAM	1	74	21.45	21.17	21.48
15	16QAM	36	0	20.49	20.54	20.38
15	16QAM	36	20	20.54	20.35	20.22
15	16QAM	36	39	20.11	20.15	20.09
15	16QAM	75	0	20.43	20.19	20.18
15	64QAM	1	0	21.39	21.41	21.20
15	64QAM	1	37	21.47	21.41	21.18
15	64QAM	1	74	21.23	21.43	21.34
15	64QAM	36	0	20.57	20.53	20.42
15	64QAM	36	20	20.45	20.36	20.24
15	64QAM	36	39	20.23	20.16	20.11
15	64QAM	75	0	20.31	20.26	20.18



LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				40090	40640	41190
Frequency (MHz)				2540	2595	2650
10	QPSK	1	0	22.47	22.38	22.40
10	QPSK	1	25	22.42	22.44	22.40
10	QPSK	1	49	22.35	22.51	22.31
10	QPSK	25	0	21.76	21.58	21.28
10	QPSK	25	12	21.69	21.59	21.48
10	QPSK	25	25	21.58	21.45	21.39
10	QPSK	50	0	21.71	21.52	21.46
10	16QAM	1	0	22.01	22.02	21.93
10	16QAM	1	25	21.97	21.63	21.64
10	16QAM	1	49	22.04	21.82	21.69
10	16QAM	25	0	20.67	20.58	20.69
10	16QAM	25	12	20.64	20.58	20.57
10	16QAM	25	25	20.73	20.67	20.59
10	16QAM	50	0	20.55	20.52	20.55
10	64QAM	1	0	21.48	22.08	21.83
10	64QAM	1	25	21.67	21.49	21.61
10	64QAM	1	49	21.97	21.76	21.10
10	64QAM	25	0	20.72	20.57	20.61
10	64QAM	25	12	20.63	20.52	20.41
10	64QAM	25	25	20.53	20.73	20.51
10	64QAM	50	0	20.47	20.54	20.47



LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				40065	40640	41215
Frequency (MHz)				2537.5	2595	2652.5
5	QPSK	1	0	22.26	22.48	22.33
5	QPSK	1	12	22.48	22.47	22.49
5	QPSK	1	24	22.40	22.43	22.54
5	QPSK	12	0	22.04	21.88	21.79
5	QPSK	12	7	22.01	21.85	21.84
5	QPSK	12	13	21.99	21.71	21.69
5	QPSK	25	0	21.75	21.50	21.55
5	16QAM	1	0	22.16	21.91	21.78
5	16QAM	1	12	22.10	21.89	21.89
5	16QAM	1	24	21.98	21.82	21.69
5	16QAM	12	0	21.09	20.59	20.71
5	16QAM	12	7	21.03	20.76	20.76
5	16QAM	12	13	20.69	20.59	20.59
5	16QAM	25	0	20.67	20.61	20.60
5	64QAM	1	0	21.74	21.81	21.79
5	64QAM	1	12	21.82	21.66	21.79
5	64QAM	1	24	21.72	21.77	21.80
5	64QAM	12	0	20.59	20.52	20.60
5	64QAM	12	7	20.66	20.50	20.59
5	64QAM	12	13	20.65	20.53	20.64
5	64QAM	25	0	20.73	20.54	20.67



**Bottom Antenna**

LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	22.42	22.42	22.22
20	QPSK	1	49	22.61	22.27	22.49
20	QPSK	1	99	22.32	22.24	22.23
20	QPSK	50	0	21.61	21.43	21.35
20	QPSK	50	24	21.44	21.34	21.51
20	QPSK	50	50	21.43	21.29	21.32
20	QPSK	100	0	21.52	21.46	21.41
20	16QAM	1	0	21.86	21.58	21.65
20	16QAM	1	49	21.74	21.58	21.97
20	16QAM	1	99	21.82	21.71	21.54
20	16QAM	50	0	20.61	20.43	20.36
20	16QAM	50	24	20.39	20.40	20.39
20	16QAM	50	50	20.34	20.31	20.22
20	16QAM	100	0	20.47	20.40	20.39
20	64QAM	1	0	21.51	21.35	21.56
20	64QAM	1	49	21.16	21.42	21.72
20	64QAM	1	99	21.41	21.39	21.43
20	64QAM	50	0	20.48	20.46	20.29
20	64QAM	50	24	20.41	20.35	20.38
20	64QAM	50	50	20.38	20.28	20.23
20	64QAM	100	0	20.56	20.49	20.50



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	22.22	22.21	22.08
15	QPSK	1	37	22.43	22.11	22.31
15	QPSK	1	74	22.11	22.04	22.05
15	QPSK	36	0	21.43	21.24	21.17
15	QPSK	36	20	21.25	21.47	21.33
15	QPSK	36	39	21.28	21.09	21.17
15	QPSK	75	0	21.35	21.3	21.23
15	16QAM	1	0	21.65	21.42	21.47
15	16QAM	1	37	21.56	21.41	21.80
15	16QAM	1	74	21.64	21.53	21.36
15	16QAM	36	0	20.41	20.24	20.17
15	16QAM	36	20	20.21	20.22	20.21
15	16QAM	36	39	20.15	20.13	20.04
15	16QAM	75	0	20.31	20.22	20.21
15	64QAM	1	0	21.33	21.22	21.38
15	64QAM	1	37	20.97	21.24	21.54
15	64QAM	1	74	21.23	21.21	21.25
15	64QAM	36	0	20.32	20.27	20.11
15	64QAM	36	20	20.24	20.18	20.21
15	64QAM	36	39	20.23	20.09	20.05
15	64QAM	75	0	20.41	20.32	20.30



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	22.28	22.41	22.26
10	QPSK	1	25	22.49	22.34	22.49
10	QPSK	1	49	22.52	22.21	22.25
10	QPSK	25	0	21.47	21.47	21.33
10	QPSK	25	12	21.47	21.27	21.23
10	QPSK	25	25	21.55	21.38	21.57
10	QPSK	50	0	21.46	21.33	21.27
10	16QAM	1	0	21.90	21.76	21.95
10	16QAM	1	25	21.74	21.53	21.47
10	16QAM	1	49	21.77	21.63	21.49
10	16QAM	25	0	20.16	20.41	20.25
10	16QAM	25	12	20.51	20.32	20.24
10	16QAM	25	25	20.52	20.43	20.36
10	16QAM	50	0	20.56	20.41	20.47
10	64QAM	1	0	21.26	21.54	21.62
10	64QAM	1	25	21.60	21.41	21.14
10	64QAM	1	49	21.55	21.21	21.16
10	64QAM	25	0	20.11	20.48	20.38
10	64QAM	25	12	20.48	20.31	20.21
10	64QAM	25	25	20.54	20.33	20.34
10	64QAM	50	0	20.43	20.4	20.38



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	22.61	22.47	22.48
5	QPSK	1	12	22.56	22.38	22.45
5	QPSK	1	24	22.63	22.52	22.58
5	QPSK	12	0	21.55	21.41	21.40
5	QPSK	12	7	21.58	21.42	21.35
5	QPSK	12	13	21.48	21.37	21.44
5	QPSK	25	0	21.71	21.34	21.41
5	16QAM	1	0	21.77	21.92	21.98
5	16QAM	1	12	21.53	21.51	21.88
5	16QAM	1	24	21.77	21.97	21.53
5	16QAM	12	0	20.55	20.47	20.43
5	16QAM	12	7	20.56	20.49	20.33
5	16QAM	12	13	20.57	20.36	20.15
5	16QAM	25	0	20.52	20.41	20.32
5	64QAM	1	0	21.72	21.53	21.71
5	64QAM	1	12	21.79	21.80	21.61
5	64QAM	1	24	21.79	21.66	21.41
5	64QAM	12	0	20.46	20.29	20.53
5	64QAM	12	7	20.63	20.24	20.25
5	64QAM	12	13	20.62	20.47	20.17
5	64QAM	25	0	20.66	20.30	20.34





LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	22.59	22.29	22.32
3	QPSK	1	8	22.57	22.34	22.32
3	QPSK	1	14	22.52	22.33	22.14
3	QPSK	8	0	21.57	21.43	21.55
3	QPSK	8	4	21.64	21.32	21.57
3	QPSK	8	7	21.62	21.26	21.32
3	QPSK	15	0	21.59	21.31	21.40
3	16QAM	1	0	21.95	21.86	21.64
3	16QAM	1	8	21.73	21.72	21.56
3	16QAM	1	14	21.96	21.57	21.71
3	16QAM	8	0	20.32	20.31	20.38
3	16QAM	8	4	20.64	20.42	20.35
3	16QAM	8	7	20.45	20.37	20.44
3	16QAM	15	0	20.51	20.47	20.49
3	64QAM	1	0	20.23	20.02	20.22
3	64QAM	1	8	20.29	20.34	20.12
3	64QAM	1	14	20.26	20.14	19.91
3	64QAM	8	0	18.95	18.75	19.01
3	64QAM	8	4	19.12	18.81	18.74
3	64QAM	8	7	19.15	18.98	18.67
3	64QAM	15	0	19.17	18.83	18.84



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	22.52	22.33	22.34
1.4	QPSK	1	3	22.38	22.47	22.61
1.4	QPSK	1	5	22.45	22.28	22.49
1.4	QPSK	3	0	22.46	22.26	22.72
1.4	QPSK	3	1	22.48	22.51	22.39
1.4	QPSK	3	3	22.65	22.38	22.39
1.4	QPSK	6	0	21.50	21.24	21.35
1.4	16QAM	1	0	21.85	21.49	21.78
1.4	16QAM	1	3	21.52	21.87	21.46
1.4	16QAM	1	5	21.66	21.78	21.69
1.4	16QAM	3	0	21.54	21.42	21.43
1.4	16QAM	3	1	21.54	21.45	21.29
1.4	16QAM	3	3	21.64	21.19	21.63
1.4	16QAM	6	0	20.42	20.32	20.49
1.4	64QAM	1	0	19.76	20.07	20.12
1.4	64QAM	1	3	20.11	19.93	19.64
1.4	64QAM	1	5	20.07	19.72	19.66
1.4	64QAM	3	0	18.59	18.65	18.88
1.4	64QAM	3	1	18.92	18.81	18.71
1.4	64QAM	3	3	19.01	18.81	18.81
1.4	64QAM	6	0	18.90	18.88	18.88



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	22.23	22.25	22.34
20	QPSK	1	49	22.1	22.21	22.21
20	QPSK	1	99	22.38	22.58	22.56
20	QPSK	50	0	21.28	21.29	21.49
20	QPSK	50	24	21.31	21.29	21.29
20	QPSK	50	50	21.37	21.38	21.26
20	QPSK	100	0	21.36	21.31	21.39
20	16QAM	1	0	21.48	21.57	21.46
20	16QAM	1	49	21.49	21.65	21.51
20	16QAM	1	99	21.81	21.48	21.95
20	16QAM	50	0	20.35	20.22	20.31
20	16QAM	50	24	20.32	20.25	20.21
20	16QAM	50	50	20.33	20.28	20.34
20	16QAM	100	0	20.33	20.26	20.29
20	64QAM	1	0	21.50	21.52	21.32
20	64QAM	1	49	21.23	21.15	21.18
20	64QAM	1	99	21.52	21.62	21.53
20	64QAM	50	0	20.33	20.17	20.33
20	64QAM	50	24	20.22	20.23	20.29
20	64QAM	50	50	20.43	20.29	20.43
20	64QAM	100	0	20.35	20.26	20.36



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	22.15	22.20	22.27
15	QPSK	1	37	22.11	22.12	22.14
15	QPSK	1	74	22.31	22.51	22.49
15	QPSK	36	0	21.21	21.22	21.42
15	QPSK	36	20	21.23	21.22	21.22
15	QPSK	36	39	21.24	21.30	21.21
15	QPSK	75	0	21.32	21.25	21.32
15	16QAM	1	0	21.42	21.47	21.39
15	16QAM	1	37	21.41	21.59	21.42
15	16QAM	1	74	21.78	21.40	21.88
15	16QAM	36	0	20.25	20.15	20.24
15	16QAM	36	20	20.23	20.18	20.18
15	16QAM	36	39	20.26	20.23	20.27
15	16QAM	75	0	20.26	20.19	20.22
15	64QAM	1	0	21.41	21.45	21.25
15	64QAM	1	37	21.16	21.08	21.11
15	64QAM	1	74	21.42	21.56	21.47
15	64QAM	36	0	20.26	20.12	20.26
15	64QAM	36	20	20.15	20.16	20.22
15	64QAM	36	39	20.35	20.21	20.36
15	64QAM	75	0	20.28	20.16	20.29



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	22.1	22.13	22.2
10	QPSK	1	25	22.04	22.03	22.07
10	QPSK	1	49	22.22	22.46	22.42
10	QPSK	25	0	21.14	21.15	21.35
10	QPSK	25	12	21.17	21.15	21.15
10	QPSK	25	25	21.17	21.22	21.15
10	QPSK	50	0	21.22	21.18	21.25
10	16QAM	1	0	21.34	21.43	21.32
10	16QAM	1	25	21.35	21.52	21.37
10	16QAM	1	49	21.71	21.33	21.81
10	16QAM	25	0	20.23	20.08	20.17
10	16QAM	25	12	20.16	20.11	20.11
10	16QAM	25	25	20.18	20.16	20.15
10	16QAM	50	0	20.19	20.11	20.15
10	64QAM	1	0	21.37	21.38	21.18
10	64QAM	1	25	21.05	21.01	21.04
10	64QAM	1	49	21.38	21.49	21.41
10	64QAM	25	0	20.19	20.05	20.19
10	64QAM	25	12	20.08	20.08	20.15
10	64QAM	25	25	20.26	20.16	20.29
10	64QAM	50	0	20.21	20.12	20.22



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	22.25	22.28	22.35
5	QPSK	1	12	22.16	22.21	22.22
5	QPSK	1	24	22.38	22.61	22.56
5	QPSK	12	0	21.26	21.27	21.50
5	QPSK	12	7	21.32	21.30	21.30
5	QPSK	12	13	21.32	21.38	21.29
5	QPSK	25	0	21.40	21.33	21.40
5	16QAM	1	0	21.50	21.58	21.47
5	16QAM	1	12	21.51	21.67	21.52
5	16QAM	1	24	21.86	21.49	21.96
5	16QAM	12	0	20.38	20.23	20.32
5	16QAM	12	7	20.31	20.26	20.24
5	16QAM	12	13	20.32	20.30	20.35
5	16QAM	25	0	20.31	20.27	20.30
5	64QAM	1	0	21.52	21.53	21.33
5	64QAM	1	12	21.24	21.15	21.19
5	64QAM	1	24	21.51	21.64	21.55
5	64QAM	12	0	20.34	20.20	20.34
5	64QAM	12	7	20.23	20.24	20.30
5	64QAM	12	13	20.43	20.31	20.43
5	64QAM	25	0	20.36	20.25	20.37



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	22.04	22.02	22.14
3	QPSK	1	8	21.98	22.01	22.01
3	QPSK	1	14	22.16	22.40	22.36
3	QPSK	8	0	21.08	21.05	21.29
3	QPSK	8	4	21.11	21.09	21.09
3	QPSK	8	7	21.11	21.18	21.09
3	QPSK	15	0	21.18	21.12	21.19
3	16QAM	1	0	21.29	21.37	21.26
3	16QAM	1	8	21.29	21.44	21.31
3	16QAM	1	14	21.65	21.28	21.75
3	16QAM	8	0	20.17	20.02	20.11
3	16QAM	8	4	20.05	20.05	20.04
3	16QAM	8	7	20.13	20.12	20.14
3	16QAM	15	0	20.13	20.06	20.09
3	64QAM	1	0	18.54	17.84	17.55
3	64QAM	1	8	18.53	17.96	17.71
3	64QAM	1	14	18.52	18.06	17.63
3	64QAM	8	0	17.54	17.18	16.64
3	64QAM	8	4	17.54	16.97	16.65
3	64QAM	8	7	17.36	16.81	16.59
3	64QAM	15	0	17.56	16.98	16.66



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	22.03	22.05	22.13
1.4	QPSK	1	3	21.97	22.00	21.88
1.4	QPSK	1	5	22.14	22.39	22.35
1.4	QPSK	3	0	21.07	21.08	21.28
1.4	QPSK	3	1	21.10	21.06	21.08
1.4	QPSK	3	3	21.10	21.15	21.08
1.4	QPSK	6	0	21.18	21.11	21.18
1.4	16QAM	1	0	21.28	21.36	21.25
1.4	16QAM	1	3	21.28	21.45	21.36
1.4	16QAM	1	5	21.64	21.27	21.74
1.4	16QAM	3	0	20.16	20.01	20.10
1.4	16QAM	3	1	20.09	20.04	20.04
1.4	16QAM	3	3	20.12	20.09	20.13
1.4	16QAM	6	0	20.12	20.05	20.08
1.4	64QAM	1	0	18.49	17.94	17.64
1.4	64QAM	1	3	18.58	18.06	17.53
1.4	64QAM	1	5	18.45	17.88	17.48
1.4	64QAM	3	0	18.39	17.89	17.52
1.4	64QAM	3	1	18.58	17.76	17.37
1.4	64QAM	3	3	18.47	17.91	17.73
1.4	64QAM	6	0	17.36	16.96	16.43





LTE Band5						
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	22.81	22.91	22.79
10	QPSK	1	25	22.85	22.92	22.78
10	QPSK	1	49	23.27	23.2	22.99
10	QPSK	25	0	21.82	21.86	22.16
10	QPSK	25	12	21.83	21.79	21.67
10	QPSK	25	25	21.95	21.78	21.76
10	QPSK	50	0	21.78	21.87	21.83
10	16QAM	1	0	22.55	22.54	22.46
10	16QAM	1	25	22.45	22.50	22.39
10	16QAM	1	49	22.43	22.22	22.06
10	16QAM	25	0	20.73	20.83	20.82
10	16QAM	25	12	20.87	20.76	20.67
10	16QAM	25	25	20.83	20.84	20.67
10	16QAM	50	0	20.81	20.85	20.78
10	64QAM	1	0	22.13	22.25	22.12
10	64QAM	1	25	22.08	21.88	22.27
10	64QAM	1	49	21.88	22.16	21.97
10	64QAM	25	0	20.79	20.76	20.79
10	64QAM	25	12	20.85	20.75	20.73
10	64QAM	25	25	20.77	20.76	20.64
10	64QAM	50	0	20.72	20.79	20.78



LTE Band5						
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	22.81	22.89	22.77
5	QPSK	1	12	22.83	22.87	22.73
5	QPSK	1	24	23.25	23.18	22.97
5	QPSK	12	0	21.82	21.84	22.14
5	QPSK	12	7	21.81	21.77	21.65
5	QPSK	12	13	21.93	21.76	21.74
5	QPSK	25	0	21.74	21.85	21.81
5	16QAM	1	0	22.53	22.52	22.44
5	16QAM	1	12	22.43	22.48	22.37
5	16QAM	1	24	22.41	22.21	22.04
5	16QAM	12	0	20.71	20.81	20.81
5	16QAM	12	7	20.85	20.74	20.65
5	16QAM	12	13	20.81	20.75	20.65
5	16QAM	25	0	20.79	20.81	20.76
5	64QAM	1	0	22.10	22.23	22.08
5	64QAM	1	12	22.06	21.86	22.23
5	64QAM	1	24	21.87	22.14	21.95
5	64QAM	12	0	20.77	20.74	20.77
5	64QAM	12	7	20.83	20.71	20.71
5	64QAM	12	13	20.72	20.74	20.62
5	64QAM	25	0	20.70	20.77	20.72



LTE Band5						
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	22.77	22.88	22.76
3	QPSK	1	8	22.82	22.85	22.73
3	QPSK	1	14	23.24	23.17	22.96
3	QPSK	8	0	21.81	21.83	22.13
3	QPSK	8	4	21.76	21.74	21.64
3	QPSK	8	7	21.92	21.75	21.71
3	QPSK	15	0	21.75	21.84	21.81
3	16QAM	1	0	22.52	22.51	22.43
3	16QAM	1	8	22.42	22.45	22.36
3	16QAM	1	14	22.38	22.19	22.03
3	16QAM	8	0	20.66	20.81	20.78
3	16QAM	8	4	20.84	20.73	20.64
3	16QAM	8	7	20.76	20.81	20.64
3	16QAM	15	0	20.78	20.81	20.73
3	64QAM	1	0	22.08	22.22	22.07
3	64QAM	1	8	22.05	21.85	22.24
3	64QAM	1	14	21.85	22.11	21.94
3	64QAM	8	0	20.76	20.73	20.76
3	64QAM	8	4	20.82	20.72	20.66
3	64QAM	8	7	20.74	20.71	20.61
3	64QAM	15	0	20.69	20.72	20.75



LTE Band5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	22.82	22.87	22.78
1.4	QPSK	1	3	22.82	22.91	22.77
1.4	QPSK	1	5	23.26	23.19	22.98
1.4	QPSK	3	0	21.81	21.85	22.15
1.4	QPSK	3	1	21.82	21.72	21.65
1.4	QPSK	3	3	21.94	21.77	21.75
1.4	QPSK	6	0	21.77	21.86	21.82
1.4	16QAM	1	0	22.54	22.53	22.45
1.4	16QAM	1	3	22.44	22.47	22.38
1.4	16QAM	1	5	22.42	22.21	22.05
1.4	16QAM	3	0	20.72	20.82	20.81
1.4	16QAM	3	1	20.86	20.75	20.66
1.4	16QAM	3	3	20.81	20.83	20.66
1.4	16QAM	6	0	20.77	20.81	20.72
1.4	64QAM	1	0	22.12	22.21	22.11
1.4	64QAM	1	3	22.07	21.87	22.26
1.4	64QAM	1	5	21.87	22.15	21.92
1.4	64QAM	3	0	20.78	20.75	20.78
1.4	64QAM	3	1	20.81	20.75	20.70
1.4	64QAM	3	3	20.76	20.75	20.63
1.4	64QAM	6	0	20.70	20.75	20.77



LTE Band7						
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	21.62	21.82	21.79
20	QPSK	1	49	21.79	21.61	21.61
20	QPSK	1	99	22.03	21.57	21.66
20	QPSK	50	0	20.75	20.69	20.76
20	QPSK	50	24	20.88	20.88	20.72
20	QPSK	50	50	20.84	20.65	20.69
20	QPSK	100	0	20.82	20.80	20.75
20	16QAM	1	0	20.88	20.83	20.71
20	16QAM	1	49	21.08	20.84	21.15
20	16QAM	1	99	20.96	20.71	21.07
20	16QAM	50	0	19.76	19.75	19.68
20	16QAM	50	24	19.77	19.78	19.76
20	16QAM	50	50	19.81	19.56	19.71
20	16QAM	100	0	19.81	19.87	19.74
20	64QAM	1	0	20.86	20.94	21.05
20	64QAM	1	49	20.79	21.10	20.88
20	64QAM	1	99	21.19	20.81	20.81
20	64QAM	50	0	19.81	19.71	19.73
20	64QAM	50	24	19.82	19.79	19.77
20	64QAM	50	50	19.81	19.72	19.67
20	64QAM	100	0	19.76	19.72	19.77



LTE Band7						
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	21.64	21.62	21.69
15	QPSK	1	37	21.59	21.78	21.71
15	QPSK	1	74	21.83	21.63	21.62
15	QPSK	36	0	20.78	20.76	20.65
15	QPSK	36	20	20.82	20.77	20.76
15	QPSK	36	39	20.80	20.52	20.70
15	QPSK	75	0	20.77	20.73	20.79
15	16QAM	1	0	20.71	20.84	20.87
15	16QAM	1	37	21.12	20.97	20.69
15	16QAM	1	74	21.11	20.80	21.13
15	16QAM	36	0	19.77	19.67	19.62
15	16QAM	36	20	19.82	19.73	19.75
15	16QAM	36	39	19.79	19.76	19.65
15	16QAM	75	0	19.76	19.78	19.76
15	64QAM	1	0	20.79	20.76	20.81
15	64QAM	1	37	20.54	20.76	20.83
15	64QAM	1	74	20.55	20.66	20.73
15	64QAM	36	0	19.77	19.67	19.53
15	64QAM	36	20	19.66	19.69	19.72
15	64QAM	36	39	19.81	19.71	19.65
15	64QAM	75	0	19.74	19.77	19.76



LTE Band7						
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	21.84	21.93	21.94
10	QPSK	1	25	21.97	21.91	21.82
10	QPSK	1	49	21.84	21.96	21.94
10	QPSK	25	0	21.03	20.97	20.92
10	QPSK	25	12	20.95	20.93	20.87
10	QPSK	25	25	20.83	21.01	20.85
10	QPSK	50	0	21.00	20.99	20.94
10	16QAM	1	0	21.56	21.68	21.30
10	16QAM	1	25	21.44	21.46	21.31
10	16QAM	1	49	21.22	21.22	21.41
10	16QAM	25	0	20.31	19.98	20.02
10	16QAM	25	12	19.93	19.86	19.85
10	16QAM	25	25	19.87	20.04	19.78
10	16QAM	50	0	20.01	19.87	19.92
10	64QAM	1	0	21.03	21.37	21.35
10	64QAM	1	25	21.09	21.17	20.97
10	64QAM	1	49	21.11	20.94	21.01
10	64QAM	25	0	19.91	19.88	19.92
10	64QAM	25	12	19.98	20.00	19.97
10	64QAM	25	25	19.92	19.98	19.82
10	64QAM	50	0	19.96	20.04	19.88



LTE Band7						
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	21.77	21.51	21.80
5	QPSK	1	12	21.74	21.58	21.65
5	QPSK	1	24	21.55	21.71	21.58
5	QPSK	12	0	20.67	20.65	20.63
5	QPSK	12	7	20.64	20.68	20.62
5	QPSK	12	13	20.63	20.71	20.64
5	QPSK	25	0	20.67	20.64	20.45
5	16QAM	1	0	20.97	20.87	21.35
5	16QAM	1	12	20.86	21.16	21.10
5	16QAM	1	24	21.02	20.94	21.31
5	16QAM	12	0	19.67	19.68	19.73
5	16QAM	12	7	19.66	19.59	19.55
5	16QAM	12	13	19.65	19.64	19.65
5	16QAM	25	0	19.76	19.71	19.66
5	64QAM	1	0	20.56	20.91	20.63
5	64QAM	1	12	20.63	20.83	20.62
5	64QAM	1	24	20.90	20.88	20.57
5	64QAM	12	0	19.64	19.69	19.59
5	64QAM	12	7	19.64	19.81	19.55
5	64QAM	12	13	19.65	19.63	19.67
5	64QAM	25	0	19.59	19.67	19.62





LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37850	38000	38150
Frequency (MHz)				2580	2595	2610
20	QPSK	1	0	21.90	22.49	22.02
20	QPSK	1	49	22.19	22.01	22.02
20	QPSK	1	99	22.24	22.18	22.27
20	QPSK	50	0	21.24	21.18	21.19
20	QPSK	50	24	21.14	21.28	21.03
20	QPSK	50	50	21.29	21.33	21.16
20	QPSK	100	0	21.23	21.25	21.18
20	16QAM	1	0	21.44	21.56	21.35
20	16QAM	1	49	21.35	21.48	21.37
20	16QAM	1	99	21.82	21.42	21.48
20	16QAM	50	0	20.34	20.26	20.28
20	16QAM	50	24	20.34	20.24	20.19
20	16QAM	50	50	20.41	20.29	20.34
20	16QAM	100	0	20.34	20.33	20.26
20	64QAM	1	0	21.16	21.43	21.34
20	64QAM	1	49	21.55	21.47	21.55
20	64QAM	1	99	21.42	21.33	21.27
20	64QAM	50	0	20.15	20.16	20.11
20	64QAM	50	24	20.05	20.27	20.03
20	64QAM	50	50	20.24	20.36	20.08
20	64QAM	100	0	20.36	20.15	20.37



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37825	38000	38175
Frequency (MHz)				2577.5	2595	2612.5
15	QPSK	1	0	22.16	22.25	22.42
15	QPSK	1	37	22.26	22.10	22.12
15	QPSK	1	74	22.41	22.33	22.15
15	QPSK	36	0	21.16	21.28	21.16
15	QPSK	36	20	21.37	21.05	21.05
15	QPSK	36	39	21.36	21.28	21.21
15	QPSK	75	0	21.18	21.08	21.14
15	16QAM	1	0	21.78	21.65	21.46
15	16QAM	1	37	21.48	21.35	21.54
15	16QAM	1	74	21.62	21.49	21.76
15	16QAM	36	0	20.15	20.21	20.19
15	16QAM	36	20	20.24	20.07	20.08
15	16QAM	36	39	20.27	20.24	20.24
15	16QAM	75	0	20.18	20.27	20.12
15	64QAM	1	0	21.23	21.54	21.61
15	64QAM	1	37	21.66	21.70	21.24
15	64QAM	1	74	21.38	21.36	21.41
15	64QAM	36	0	20.19	20.22	20.22
15	64QAM	36	20	20.26	20.01	20.09
15	64QAM	36	39	20.41	20.16	20.27
15	64QAM	75	0	20.17	20.23	20.11



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37800	38000	38200
Frequency (MHz)				2575	2595	2615
10	QPSK	1	0	22.21	22.09	22.24
10	QPSK	1	25	22.27	22.35	22.31
10	QPSK	1	49	22.39	22.38	22.33
10	QPSK	25	0	21.41	21.32	21.35
10	QPSK	25	12	21.49	21.48	21.37
10	QPSK	25	25	21.43	21.46	21.45
10	QPSK	50	0	21.42	21.35	21.35
10	16QAM	1	0	21.87	21.82	21.88
10	16QAM	1	25	21.83	21.54	21.53
10	16QAM	1	49	22.01	21.55	21.95
10	16QAM	25	0	20.45	20.56	20.54
10	16QAM	25	12	20.50	20.49	20.27
10	16QAM	25	25	20.59	20.53	20.51
10	16QAM	50	0	20.56	20.25	20.44
10	64QAM	1	0	20.95	21.32	20.91
10	64QAM	1	25	21.02	21.23	20.98
10	64QAM	1	49	20.88	20.96	20.92
10	64QAM	25	0	19.93	20.35	20.03
10	64QAM	25	12	19.96	20.26	19.99
10	64QAM	25	25	19.87	20.18	19.94
10	64QAM	50	0	19.89	20.21	20.01



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37775	38000	38225
Frequency (MHz)				2572.5	2595	2617.5
5	QPSK	1	0	21.92	22.27	21.93
5	QPSK	1	12	22.07	22.18	21.92
5	QPSK	1	24	21.88	21.92	21.83
5	QPSK	12	0	21.12	21.38	21.10
5	QPSK	12	7	21.13	21.38	21.14
5	QPSK	12	13	21.06	21.29	21.05
5	QPSK	25	0	21.05	21.33	21.11
5	16QAM	1	0	21.14	21.45	21.14
5	16QAM	1	12	21.26	21.49	21.22
5	16QAM	1	24	21.12	21.20	21.16
5	16QAM	12	0	20.11	20.53	20.17
5	16QAM	12	7	20.14	20.46	20.21
5	16QAM	12	13	20.08	20.36	20.12
5	16QAM	25	0	20.06	20.43	20.21
5	64QAM	1	0	21.07	21.44	21.03
5	64QAM	1	12	21.16	21.35	21.05
5	64QAM	1	24	21.01	21.09	21.04
5	64QAM	12	0	20.05	20.47	20.12
5	64QAM	12	7	20.08	20.41	20.13
5	64QAM	12	13	20.01	20.32	20.06
5	64QAM	25	0	20.01	20.34	20.13



LTE Band 40 (2305MHz ~ 2315MHz)						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	38750	/
Frequency (MHz)				/	2310	/
10	QPSK	1	0	/	22.30	/
10	QPSK	1	25	/	22.33	/
10	QPSK	1	49	/	22.41	/
10	QPSK	25	0	/	21.31	/
10	QPSK	25	12	/	21.31	/
10	QPSK	25	25	/	21.24	/
10	QPSK	50	0	/	21.46	/
10	16QAM	1	0	/	21.72	/
10	16QAM	1	25	/	21.81	/
10	16QAM	1	49	/	21.86	/
10	16QAM	25	0	/	20.40	/
10	16QAM	25	12	/	20.46	/
10	16QAM	25	25	/	20.34	/
10	16QAM	50	0	/	20.33	/
10	64QAM	1	0	/	21.14	/
10	64QAM	1	25	/	21.43	/
10	64QAM	1	49	/	21.60	/
10	64QAM	25	0	/	20.35	/
10	64QAM	25	12	/	20.41	/
10	64QAM	25	25	/	20.27	/
10	64QAM	50	0	/	20.31	/



LTE Band 40 (2305MHz ~ 2315MHz)						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				38725	38750	38775
Frequency (MHz)				2307.5	2310	2312.5
5	QPSK	1	0	22.16	22.38	22.10
5	QPSK	1	12	22.28	22.25	22.25
5	QPSK	1	24	22.22	22.24	22.21
5	QPSK	12	0	21.33	21.41	21.42
5	QPSK	12	7	21.31	21.41	21.32
5	QPSK	12	13	21.24	21.39	21.17
5	QPSK	25	0	21.32	21.25	21.25
5	16QAM	1	0	21.60	21.51	21.57
5	16QAM	1	12	21.68	21.73	21.29
5	16QAM	1	24	21.46	21.71	21.51
5	16QAM	12	0	20.32	20.46	20.36
5	16QAM	12	7	20.31	20.34	20.26
5	16QAM	12	13	20.36	20.33	20.23
5	16QAM	25	0	20.35	20.31	20.32
5	64QAM	1	0	21.18	21.61	21.46
5	64QAM	1	12	21.38	21.40	21.42
5	64QAM	1	24	21.52	21.41	21.39
5	64QAM	12	0	20.36	20.28	20.27
5	64QAM	12	7	20.33	20.26	20.21
5	64QAM	12	13	20.28	20.25	20.17
5	64QAM	25	0	20.27	20.34	20.25



LTE Band 40 (2350MHz ~ 2360MHz)						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	39200	/
Frequency (MHz)				/	2355	/
10	QPSK	1	0	/	22.20	/
10	QPSK	1	25	/	22.39	/
10	QPSK	1	49	/	22.50	/
10	QPSK	25	0	/	21.38	/
10	QPSK	25	12	/	21.39	/
10	QPSK	25	25	/	21.47	/
10	QPSK	50	0	/	21.33	/
10	16QAM	1	0	/	21.98	/
10	16QAM	1	25	/	21.68	/
10	16QAM	1	49	/	22.00	/
10	16QAM	25	0	/	20.37	/
10	16QAM	25	12	/	20.38	/
10	16QAM	25	25	/	20.53	/
10	16QAM	50	0	/	20.34	/
10	64QAM	1	0	/	21.12	/
10	64QAM	1	25	/	21.45	/
10	64QAM	1	49	/	21.67	/
10	64QAM	25	0	/	20.43	/
10	64QAM	25	12	/	20.38	/
10	64QAM	25	25	/	20.45	/
10	64QAM	50	0	/	20.46	/



LTE Band 40 (2350MHz ~ 2360MHz)						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39175	39200	39225
Frequency (MHz)				2352.5	2355	2357.5
5	QPSK	1	0	22.24	22.16	22.38
5	QPSK	1	12	22.25	22.26	22.36
5	QPSK	1	24	22.27	22.24	22.34
5	QPSK	12	0	21.36	21.42	21.47
5	QPSK	12	7	21.30	21.35	21.45
5	QPSK	12	13	21.27	21.38	21.38
5	QPSK	25	0	21.38	21.29	21.34
5	16QAM	1	0	21.88	21.67	21.78
5	16QAM	1	12	21.87	21.56	21.65
5	16QAM	1	24	21.41	21.46	21.82
5	16QAM	12	0	20.43	20.45	20.62
5	16QAM	12	7	20.36	20.46	20.38
5	16QAM	12	13	20.37	20.42	20.43
5	16QAM	25	0	20.50	20.34	20.42
5	64QAM	1	0	21.21	21.49	21.67
5	64QAM	1	12	21.31	21.61	21.41
5	64QAM	1	24	21.47	21.51	21.50
5	64QAM	12	0	20.45	20.38	20.36
5	64QAM	12	7	20.27	20.44	20.33
5	64QAM	12	13	20.29	20.43	20.37
5	64QAM	25	0	20.32	20.37	20.36





LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				40140	40640	41140
Frequency (MHz)				2545	2595	2645
20	QPSK	1	0	22.35	22.11	22.11
20	QPSK	1	49	22.35	22.03	22.00
20	QPSK	1	99	22.36	22.22	21.97
20	QPSK	50	0	21.29	21.37	21.17
20	QPSK	50	24	21.47	21.38	21.14
20	QPSK	50	50	21.34	21.33	21.09
20	QPSK	100	0	21.29	21.29	21.33
20	16QAM	1	0	21.91	21.56	21.45
20	16QAM	1	49	21.57	21.67	21.44
20	16QAM	1	99	21.77	21.44	21.42
20	16QAM	50	0	20.37	20.34	20.31
20	16QAM	50	24	20.42	20.27	20.21
20	16QAM	50	50	20.27	20.43	20.15
20	16QAM	100	0	20.50	20.45	20.41
20	64QAM	1	0	21.29	21.55	21.34
20	64QAM	1	49	21.76	21.63	21.21
20	64QAM	1	99	21.66	21.38	21.27
20	64QAM	50	0	20.39	20.35	20.24
20	64QAM	50	24	20.47	20.39	20.14
20	64QAM	50	50	20.36	20.14	20.11
20	64QAM	100	0	20.51	20.30	20.12



LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				40115	40640	41165
Frequency (MHz)				2542.5	2595	2647.5
15	QPSK	1	0	22.24	22.11	21.95
15	QPSK	1	37	22.23	22.22	21.93
15	QPSK	1	74	21.78	21.85	21.93
15	QPSK	36	0	21.34	21.44	21.14
15	QPSK	36	20	21.39	21.14	20.96
15	QPSK	36	39	20.95	21.03	20.79
15	QPSK	75	0	21.22	21.02	20.86
15	16QAM	1	0	21.41	21.08	20.96
15	16QAM	1	37	21.38	21.01	20.93
15	16QAM	1	74	21.27	20.99	21.28
15	16QAM	36	0	20.31	20.36	20.20
15	16QAM	36	20	20.36	20.14	20.04
15	16QAM	36	39	19.93	19.97	19.91
15	16QAM	75	0	20.22	20.01	20.46
15	64QAM	1	0	21.21	21.23	21.02
15	64QAM	1	37	21.29	21.23	21.00
15	64QAM	1	74	21.05	21.22	21.16
15	64QAM	36	0	20.37	20.35	20.24
15	64QAM	36	20	20.26	20.17	20.06
15	64QAM	36	39	20.05	19.98	19.93
15	64QAM	75	0	20.12	20.08	20.01



LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				40090	40640	41190
Frequency (MHz)				2540	2595	2650
10	QPSK	1	0	22.29	22.21	22.22
10	QPSK	1	25	22.24	22.26	22.22
10	QPSK	1	49	22.17	22.33	22.13
10	QPSK	25	0	21.58	21.37	21.10
10	QPSK	25	12	21.51	21.41	21.31
10	QPSK	25	25	21.34	21.27	21.21
10	QPSK	50	0	21.53	21.34	21.28
10	16QAM	1	0	21.82	21.84	21.75
10	16QAM	1	25	21.78	21.41	21.43
10	16QAM	1	49	21.86	21.64	21.51
10	16QAM	25	0	20.49	20.37	20.51
10	16QAM	25	12	20.45	20.40	20.37
10	16QAM	25	25	20.55	20.49	20.41
10	16QAM	50	0	20.37	20.34	20.37
10	64QAM	1	0	21.27	21.87	21.65
10	64QAM	1	25	21.49	21.31	21.43
10	64QAM	1	49	21.79	21.58	20.92
10	64QAM	25	0	20.52	20.39	20.43
10	64QAM	25	12	20.45	20.34	20.23
10	64QAM	25	25	20.35	20.55	20.33
10	64QAM	50	0	20.29	20.33	20.29



LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				40065	40640	41215
Frequency (MHz)				2537.5	2595	2652.5
5	QPSK	1	0	22.08	22.30	22.15
5	QPSK	1	12	22.27	22.29	22.31
5	QPSK	1	24	22.22	22.25	22.36
5	QPSK	12	0	21.86	21.68	21.60
5	QPSK	12	7	21.83	21.67	21.66
5	QPSK	12	13	21.81	21.53	21.51
5	QPSK	25	0	21.55	21.32	21.37
5	16QAM	1	0	21.98	21.73	21.58
5	16QAM	1	12	21.92	21.70	21.71
5	16QAM	1	24	21.78	21.64	21.51
5	16QAM	12	0	20.91	20.41	20.53
5	16QAM	12	7	20.85	20.57	20.58
5	16QAM	12	13	20.51	20.41	20.41
5	16QAM	25	0	20.47	20.43	20.42
5	64QAM	1	0	21.56	21.63	21.61
5	64QAM	1	12	21.64	21.46	21.61
5	64QAM	1	24	21.54	21.59	21.62
5	64QAM	12	0	20.41	20.32	20.42
5	64QAM	12	7	20.48	20.32	20.41
5	64QAM	12	13	20.47	20.30	20.46
5	64QAM	25	0	20.54	20.36	20.47

**Note:** The measured power value of the upper antenna is larger than that of the lower antenna, and the test results are all from the upper antenna



Effective Radiated Power and Effective Isotropic Radiated Power

LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18700		18900		19100	
Frequency (MHz)				1860		1880		1900	
				dbm	W	dbm	W	dbm	W
20	QPSK	1	0	23.69	0.234	23.70	0.234	23.53	0.225
20	QPSK	1	49	23.90	0.245	23.57	0.228	23.77	0.238
20	QPSK	1	99	23.58	0.228	23.51	0.224	23.51	0.224
20	QPSK	50	0	22.89	0.195	22.71	0.187	22.63	0.183
20	QPSK	50	24	22.72	0.187	22.64	0.184	22.80	0.191
20	QPSK	50	50	22.72	0.187	22.57	0.181	22.63	0.183
20	QPSK	100	0	22.81	0.191	22.76	0.189	22.69	0.186
20	16QAM	1	0	23.14	0.206	22.88	0.194	22.93	0.196
20	16QAM	1	49	23.02	0.200	22.86	0.193	23.26	0.212
20	16QAM	1	99	23.09	0.204	22.99	0.199	22.82	0.191
20	16QAM	50	0	21.89	0.155	21.69	0.148	21.64	0.146
20	16QAM	50	24	21.67	0.147	21.69	0.148	21.67	0.147
20	16QAM	50	50	21.62	0.145	21.59	0.144	21.49	0.141
20	16QAM	100	0	21.76	0.150	21.68	0.147	21.67	0.147
20	64QAM	1	0	22.79	0.190	22.67	0.185	22.84	0.192
20	64QAM	1	49	22.44	0.175	22.70	0.186	23.00	0.200
20	64QAM	1	99	22.69	0.186	22.67	0.185	22.71	0.187
20	64QAM	50	0	21.78	0.151	21.74	0.149	21.57	0.144
20	64QAM	50	24	21.70	0.148	21.65	0.146	21.66	0.147
20	64QAM	50	50	21.64	0.146	21.55	0.143	21.51	0.142
20	64QAM	100	0	21.87	0.154	21.75	0.150	21.79	0.151



LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18675		18900		19125	
Frequency (MHz)				1857.5		1880		1902.5	
				dbm	W	dbm	W	dbm	W
15	QPSK	1	0	23.81	0.240	23.88	0.244	23.84	0.242
15	QPSK	1	37	23.82	0.241	23.77	0.238	23.83	0.242
15	QPSK	1	74	23.68	0.233	23.83	0.242	23.53	0.225
15	QPSK	36	0	22.78	0.190	22.66	0.185	22.67	0.185
15	QPSK	36	20	22.83	0.192	22.66	0.185	22.63	0.183
15	QPSK	36	39	22.78	0.190	22.57	0.181	22.45	0.176
15	QPSK	75	0	22.76	0.189	22.74	0.188	22.70	0.186
15	16QAM	1	0	23.14	0.206	23.25	0.211	22.87	0.194
15	16QAM	1	37	23.28	0.213	22.94	0.197	23.22	0.210
15	16QAM	1	74	23.16	0.207	23.24	0.211	22.80	0.191
15	16QAM	36	0	21.88	0.154	21.69	0.148	21.63	0.146
15	16QAM	36	20	21.89	0.155	21.60	0.145	21.61	0.145
15	16QAM	36	39	21.67	0.147	21.57	0.144	21.41	0.138
15	16QAM	75	0	21.80	0.151	21.64	0.146	21.67	0.147
15	64QAM	1	0	22.70	0.186	22.69	0.186	22.82	0.191
15	64QAM	1	37	23.06	0.202	23.03	0.201	22.75	0.188
15	64QAM	1	74	22.64	0.184	22.70	0.186	22.79	0.190
15	64QAM	36	0	21.71	0.148	21.65	0.146	21.68	0.147
15	64QAM	36	20	21.86	0.153	21.65	0.146	21.65	0.146
15	64QAM	36	39	21.78	0.151	21.52	0.142	21.49	0.141
15	64QAM	75	0	21.79	0.151	21.60	0.145	21.48	0.141



LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18650		18900		19150	
Frequency (MHz)				1855		1880		1905	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	23.58	0.228	23.73	0.236	23.54	0.226
10	QPSK	1	25	23.77	0.238	23.62	0.230	23.77	0.238
10	QPSK	1	49	23.78	0.239	23.51	0.224	23.56	0.227
10	QPSK	25	0	22.78	0.190	22.76	0.189	22.61	0.182
10	QPSK	25	12	22.75	0.188	22.57	0.181	22.54	0.179
10	QPSK	25	25	22.83	0.192	22.66	0.185	22.85	0.193
10	QPSK	50	0	22.74	0.188	22.61	0.182	22.55	0.180
10	16QAM	1	0	23.19	0.208	23.04	0.201	23.24	0.211
10	16QAM	1	25	23.02	0.200	22.81	0.191	22.75	0.188
10	16QAM	1	49	23.05	0.202	22.94	0.197	22.77	0.189
10	16QAM	25	0	21.46	0.140	21.70	0.148	21.53	0.142
10	16QAM	25	12	21.79	0.151	21.58	0.144	21.54	0.143
10	16QAM	25	25	21.80	0.151	21.71	0.148	21.64	0.146
10	16QAM	50	0	21.89	0.155	21.71	0.148	21.75	0.150
10	64QAM	1	0	22.54	0.179	22.85	0.193	22.90	0.195
10	64QAM	1	25	22.89	0.195	22.71	0.187	22.42	0.175
10	64QAM	1	49	22.88	0.194	22.48	0.177	22.44	0.175
10	64QAM	25	0	21.39	0.138	21.76	0.150	21.66	0.147
10	64QAM	25	12	21.76	0.150	21.58	0.144	21.49	0.141
10	64QAM	25	25	21.82	0.152	21.65	0.146	21.63	0.146
10	64QAM	50	0	21.72	0.149	21.68	0.147	21.66	0.147



LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18625		18900		19175	
Frequency (MHz)				1852.5		1880		1907.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	23.92	0.247	23.76	0.238	23.76	0.238
5	QPSK	1	12	23.84	0.242	23.67	0.233	23.73	0.236
5	QPSK	1	24	23.93	0.247	23.80	0.240	23.86	0.243
5	QPSK	12	0	22.83	0.192	22.70	0.186	22.69	0.186
5	QPSK	12	7	22.86	0.193	22.70	0.186	22.63	0.183
5	QPSK	12	13	22.76	0.189	22.65	0.184	22.72	0.187
5	QPSK	25	0	22.99	0.199	22.64	0.184	22.70	0.186
5	16QAM	1	0	23.05	0.202	23.20	0.209	23.26	0.212
5	16QAM	1	12	22.84	0.192	22.81	0.191	23.16	0.207
5	16QAM	1	24	23.05	0.202	23.28	0.213	22.81	0.191
5	16QAM	12	0	21.85	0.153	21.75	0.150	21.71	0.148
5	16QAM	12	7	21.84	0.153	21.77	0.150	21.65	0.146
5	16QAM	12	13	21.86	0.153	21.64	0.146	21.43	0.139
5	16QAM	25	0	21.80	0.151	21.69	0.148	21.60	0.145
5	64QAM	1	0	22.98	0.199	22.81	0.191	22.99	0.199
5	64QAM	1	12	23.07	0.203	23.12	0.205	22.90	0.195
5	64QAM	1	24	23.07	0.203	22.94	0.197	22.69	0.186
5	64QAM	12	0	21.73	0.149	21.57	0.144	21.81	0.152
5	64QAM	12	7	21.91	0.155	21.59	0.144	21.52	0.142
5	64QAM	12	13	21.88	0.154	21.76	0.150	21.45	0.140
5	64QAM	25	0	21.94	0.156	21.61	0.145	21.62	0.145





LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18615		18900		19185	
Frequency (MHz)				1851.5		1880		1908.5	
				dbm	W	dbm	W	dbm	W
3	QPSK	1	0	23.87	0.244	23.57	0.228	23.60	0.229
3	QPSK	1	8	23.83	0.242	23.62	0.230	23.60	0.229
3	QPSK	1	14	23.82	0.241	23.64	0.231	23.42	0.220
3	QPSK	8	0	22.85	0.193	22.72	0.187	22.83	0.192
3	QPSK	8	4	22.92	0.196	22.60	0.182	22.85	0.193
3	QPSK	8	7	22.90	0.195	22.55	0.180	22.60	0.182
3	QPSK	15	0	22.84	0.192	22.58	0.181	22.69	0.186
3	16QAM	1	0	23.23	0.210	23.14	0.206	22.92	0.196
3	16QAM	1	8	23.01	0.200	23.03	0.201	22.87	0.194
3	16QAM	1	14	23.24	0.211	22.85	0.193	22.99	0.199
3	16QAM	8	0	21.63	0.146	21.59	0.144	21.66	0.147
3	16QAM	8	4	21.92	0.156	21.70	0.148	21.63	0.146
3	16QAM	8	7	21.75	0.150	21.65	0.146	21.72	0.149
3	16QAM	15	0	21.79	0.151	21.75	0.150	21.77	0.150
3	64QAM	1	0	21.48	0.141	21.31	0.135	21.49	0.141
3	64QAM	1	8	21.57	0.144	21.62	0.145	21.4	0.138
3	64QAM	1	14	21.57	0.144	21.44	0.139	21.19	0.132
3	64QAM	8	0	20.23	0.105	20.07	0.102	20.31	0.107
3	64QAM	8	4	20.41	0.110	20.09	0.102	20.02	0.100
3	64QAM	8	7	20.38	0.109	20.26	0.106	19.95	0.099
3	64QAM	15	0	20.44	0.111	20.11	0.103	20.12	0.103



LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18607		18900		19193	
Frequency (MHz)				1850.7		1880		1909.3	
				dbm	W	dbm	W	dbm	W
1.4	QPSK	1	0	23.82	0.241	23.63	0.231	23.64	0.231
1.4	QPSK	1	3	23.66	0.232	23.80	0.240	23.88	0.244
1.4	QPSK	1	5	23.71	0.235	23.56	0.227	23.77	0.238
1.4	QPSK	3	0	23.74	0.237	23.55	0.226	23.99	0.251
1.4	QPSK	3	1	23.79	0.239	23.79	0.239	23.67	0.233
1.4	QPSK	3	3	23.93	0.247	23.66	0.232	23.67	0.233
1.4	QPSK	6	0	22.79	0.190	22.52	0.179	22.63	0.183
1.4	16QAM	1	0	23.13	0.206	22.77	0.189	23.06	0.202
1.4	16QAM	1	3	22.80	0.191	23.16	0.207	22.74	0.188
1.4	16QAM	1	5	22.94	0.197	23.06	0.202	22.97	0.198
1.4	16QAM	3	0	22.82	0.191	22.70	0.186	22.71	0.187
1.4	16QAM	3	1	22.83	0.192	22.73	0.187	22.57	0.181
1.4	16QAM	3	3	22.92	0.196	22.47	0.177	22.91	0.195
1.4	16QAM	6	0	21.70	0.148	21.60	0.145	21.77	0.150
1.4	64QAM	1	0	21.04	0.127	21.35	0.136	21.4	0.199
1.4	64QAM	1	3	21.39	0.138	21.21	0.132	20.92	0.181
1.4	64QAM	1	5	21.38	0.137	20.98	0.125	20.94	0.208
1.4	64QAM	3	0	19.89	0.097	20.26	0.106	20.16	0.196
1.4	64QAM	3	1	20.26	0.106	20.08	0.102	19.99	0.199
1.4	64QAM	3	3	20.32	0.108	20.15	0.104	20.13	0.181
1.4	64QAM	6	0	20.22	0.105	20.18	0.104	20.16	0.208



LTE Band4				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20050		20175		20300	
Frequency (MHz)				1720		1732.5		1745	
				dbm	W	dbm	W	dbm	W
20	QPSK	1	0	23.52	0.225	23.55	0.226	23.62	0.230
20	QPSK	1	49	23.46	0.222	23.49	0.223	23.49	0.223
20	QPSK	1	99	23.66	0.232	23.84	0.242	23.88	0.244
20	QPSK	50	0	22.70	0.186	22.57	0.181	22.57	0.181
20	QPSK	50	24	22.59	0.182	22.57	0.181	22.57	0.181
20	QPSK	50	50	22.59	0.182	22.66	0.185	22.57	0.181
20	QPSK	100	0	22.67	0.185	22.60	0.182	22.67	0.185
20	16QAM	1	0	22.77	0.189	22.85	0.193	22.74	0.188
20	16QAM	1	49	22.77	0.189	22.94	0.197	22.79	0.190
20	16QAM	1	99	23.13	0.206	22.76	0.189	23.23	0.210
20	16QAM	50	0	21.65	0.146	21.50	0.141	21.59	0.144
20	16QAM	50	24	21.58	0.144	21.53	0.142	21.53	0.142
20	16QAM	50	50	21.61	0.145	21.58	0.144	21.62	0.145
20	16QAM	100	0	21.61	0.145	21.54	0.143	21.57	0.144
20	64QAM	1	0	22.79	0.190	22.80	0.191	22.60	0.182
20	64QAM	1	49	22.51	0.178	22.43	0.175	22.46	0.176
20	64QAM	1	99	22.80	0.191	22.91	0.195	22.82	0.191
20	64QAM	50	0	21.61	0.145	21.47	0.140	21.61	0.145
20	64QAM	50	24	21.50	0.141	21.51	0.142	21.57	0.144
20	64QAM	50	50	21.72	0.149	21.58	0.144	21.71	0.148
20	64QAM	100	0	21.63	0.146	21.54	0.143	21.64	0.146



LTE Band4				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20025		20175		20325	
Frequency (MHz)				1717.5		1732.5		1747.5	
				dbm	W	dbm	W	dbm	W
15	QPSK	1	0	23.45	0.221	23.48	0.223	23.55	0.226
15	QPSK	1	37	23.39	0.218	23.42	0.220	23.42	0.220
15	QPSK	1	74	23.59	0.229	23.81	0.240	23.77	0.238
15	QPSK	36	0	22.49	0.177	22.50	0.178	22.70	0.186
15	QPSK	36	20	22.52	0.179	22.50	0.178	22.50	0.178
15	QPSK	36	39	22.52	0.179	22.59	0.182	22.50	0.178
15	QPSK	75	0	22.60	0.182	22.53	0.179	22.60	0.182
15	16QAM	1	0	22.70	0.186	22.78	0.190	22.67	0.185
15	16QAM	1	37	22.70	0.186	22.87	0.194	22.72	0.187
15	16QAM	1	74	23.06	0.202	22.69	0.186	23.16	0.207
15	16QAM	36	0	21.58	0.144	21.43	0.139	21.52	0.142
15	16QAM	36	20	21.51	0.142	21.46	0.140	21.46	0.140
15	16QAM	36	39	21.54	0.143	21.51	0.142	21.55	0.143
15	16QAM	75	0	21.54	0.143	21.47	0.140	21.50	0.141
15	64QAM	1	0	22.72	0.187	22.73	0.187	22.53	0.179
15	64QAM	1	37	22.44	0.175	22.36	0.172	22.39	0.173
15	64QAM	1	74	22.73	0.187	22.84	0.192	22.75	0.188
15	64QAM	36	0	21.54	0.143	21.40	0.138	21.54	0.143
15	64QAM	36	20	21.43	0.139	21.44	0.139	21.50	0.141
15	64QAM	36	39	21.65	0.146	21.51	0.142	21.64	0.146
15	64QAM	75	0	21.56	0.143	21.47	0.140	21.57	0.144



LTE Band4				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20000		20175		20350	
Frequency (MHz)				1715		1732.5		1750	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	23.38	0.218	23.41	0.219	23.48	0.223
10	QPSK	1	25	23.32	0.215	23.35	0.216	23.35	0.216
10	QPSK	1	49	23.52	0.225	23.74	0.237	23.70	0.234
10	QPSK	25	0	22.42	0.175	22.43	0.175	22.63	0.183
10	QPSK	25	12	22.45	0.176	22.43	0.175	22.43	0.175
10	QPSK	25	25	22.45	0.176	22.52	0.179	22.43	0.175
10	QPSK	50	0	22.53	0.179	22.46	0.176	22.53	0.179
10	16QAM	1	0	22.63	0.183	22.71	0.187	22.60	0.182
10	16QAM	1	25	22.63	0.183	22.80	0.191	22.65	0.184
10	16QAM	1	49	22.99	0.199	22.62	0.183	23.09	0.204
10	16QAM	25	0	21.51	0.142	21.36	0.137	21.45	0.140
10	16QAM	25	12	21.44	0.139	21.39	0.138	21.39	0.138
10	16QAM	25	25	21.47	0.140	21.44	0.139	21.48	0.141
10	16QAM	50	0	21.47	0.140	21.40	0.138	21.43	0.139
10	64QAM	1	0	22.65	0.184	22.66	0.185	22.46	0.176
10	64QAM	1	25	22.37	0.173	22.29	0.169	22.32	0.171
10	64QAM	1	49	22.66	0.185	22.77	0.189	22.68	0.185
10	64QAM	25	0	21.47	0.140	21.33	0.136	21.47	0.140
10	64QAM	25	12	21.36	0.137	21.37	0.137	21.43	0.139
10	64QAM	25	25	21.58	0.144	21.44	0.139	21.57	0.144
10	64QAM	50	0	21.49	0.141	21.40	0.138	21.50	0.141



LTE Band4				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19975		20175		20375	
Frequency (MHz)				1712.5		1732.5		1752.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	23.35	0.216	23.38	0.218	23.45	0.221
5	QPSK	1	12	23.29	0.213	23.32	0.215	23.32	0.215
5	QPSK	1	24	23.49	0.223	23.71	0.235	23.67	0.233
5	QPSK	12	0	22.39	0.173	22.40	0.174	22.60	0.182
5	QPSK	12	7	22.42	0.175	22.40	0.174	22.40	0.174
5	QPSK	12	13	22.42	0.175	22.49	0.177	22.40	0.174
5	QPSK	25	0	22.50	0.178	22.43	0.175	22.50	0.178
5	16QAM	1	0	22.60	0.182	22.68	0.185	22.57	0.181
5	16QAM	1	12	22.60	0.182	22.77	0.189	22.62	0.183
5	16QAM	1	24	22.96	0.198	22.59	0.182	23.06	0.202
5	16QAM	12	0	21.48	0.141	21.33	0.136	21.42	0.139
5	16QAM	12	7	21.41	0.138	21.36	0.137	21.36	0.137
5	16QAM	12	13	21.44	0.139	21.41	0.138	21.45	0.140
5	16QAM	25	0	21.44	0.139	21.37	0.137	21.40	0.138
5	64QAM	1	0	22.62	0.183	22.63	0.183	22.43	0.175
5	64QAM	1	12	22.34	0.171	22.26	0.168	22.29	0.169
5	64QAM	1	24	22.63	0.183	22.74	0.188	22.65	0.184
5	64QAM	12	0	21.44	0.139	21.30	0.135	21.44	0.139
5	64QAM	12	7	21.33	0.136	21.34	0.136	21.40	0.138
5	64QAM	12	13	21.55	0.143	21.41	0.138	21.54	0.143
5	64QAM	25	0	21.46	0.140	21.37	0.137	21.47	0.140



LTE Band4				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19965		20175		20385	
Frequency (MHz)				1711.5		1732.5		1753.5	
				dbm	W	dbm	W	dbm	W
3	QPSK	1	0	23.32	0.215	23.35	0.216	23.42	0.220
3	QPSK	1	8	23.26	0.212	23.29	0.213	23.29	0.213
3	QPSK	1	14	23.46	0.222	23.68	0.233	23.64	0.231
3	QPSK	8	0	22.36	0.172	22.37	0.173	22.57	0.181
3	QPSK	8	4	22.39	0.173	22.37	0.173	22.37	0.173
3	QPSK	8	7	22.39	0.173	22.46	0.176	22.37	0.173
3	QPSK	15	0	22.47	0.177	22.40	0.174	22.47	0.177
3	16QAM	1	0	22.57	0.181	22.65	0.184	22.54	0.179
3	16QAM	1	8	22.57	0.181	22.74	0.188	22.59	0.182
3	16QAM	1	14	22.93	0.196	22.56	0.180	23.03	0.201
3	16QAM	8	0	21.45	0.140	21.30	0.135	21.39	0.138
3	16QAM	8	4	21.38	0.137	21.33	0.136	21.33	0.136
3	16QAM	8	7	21.41	0.138	21.38	0.137	21.42	0.139
3	16QAM	15	0	21.41	0.138	21.34	0.136	21.37	0.137
3	64QAM	1	0	21.48	0.141	21.31	0.135	21.49	0.141
3	64QAM	1	8	21.57	0.144	21.62	0.145	21.4	0.138
3	64QAM	1	14	21.57	0.144	21.44	0.139	21.19	0.132
3	64QAM	8	0	20.23	0.105	20.07	0.102	20.31	0.107
3	64QAM	8	4	20.41	0.110	20.09	0.102	20.02	0.100
3	64QAM	8	7	20.38	0.109	20.26	0.106	19.95	0.099
3	64QAM	15	0	20.44	0.111	20.11	0.103	20.12	0.103



LTE Band4				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19957		20175		20393	
Frequency (MHz)				1710.7		1732.5		1754.3	
				dbm	W	dbm	W	dbm	W
1.4	QPSK	1	0	23.31	0.214	23.34	0.216	23.41	0.219
1.4	QPSK	1	3	23.25	0.211	23.28	0.213	23.28	0.213
1.4	QPSK	1	5	23.45	0.221	23.67	0.233	23.63	0.231
1.4	QPSK	3	0	22.35	0.172	22.36	0.172	22.56	0.180
1.4	QPSK	3	1	22.38	0.173	22.36	0.172	22.36	0.172
1.4	QPSK	3	3	22.38	0.173	22.45	0.176	22.36	0.172
1.4	QPSK	6	0	22.46	0.176	22.39	0.173	22.46	0.176
1.4	16QAM	1	0	22.56	0.180	22.64	0.184	22.53	0.179
1.4	16QAM	1	3	22.56	0.180	22.73	0.187	22.58	0.181
1.4	16QAM	1	5	22.92	0.196	22.55	0.180	23.02	0.200
1.4	16QAM	3	0	21.44	0.139	21.29	0.135	21.38	0.137
1.4	16QAM	3	1	21.37	0.137	21.32	0.136	21.32	0.136
1.4	16QAM	3	3	21.40	0.138	21.37	0.137	21.41	0.138
1.4	16QAM	6	0	21.40	0.138	21.33	0.136	21.36	0.137
1.4	64QAM	1	0	21.04	0.127	21.35	0.136	21.4	0.138
1.4	64QAM	1	3	21.39	0.138	21.21	0.132	20.92	0.124
1.4	64QAM	1	5	21.38	0.137	20.98	0.125	20.94	0.124
1.4	64QAM	3	0	19.89	0.097	20.26	0.106	20.16	0.104
1.4	64QAM	3	1	20.26	0.106	20.08	0.102	19.99	0.100
1.4	64QAM	3	3	20.32	0.108	20.15	0.104	20.13	0.103
1.4	64QAM	6	0	20.22	0.105	20.18	0.104	20.16	0.104





LTE Band5				Measured ERP					
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	21.36	0.137	21.44	0.139	21.32	0.136
10	QPSK	1	25	21.38	0.137	21.45	0.140	21.31	0.135
10	QPSK	1	49	21.80	0.151	21.73	0.149	21.52	0.142
10	QPSK	25	0	20.37	0.109	20.39	0.109	20.69	0.117
10	QPSK	25	12	20.36	0.109	20.32	0.108	20.20	0.105
10	QPSK	25	25	20.48	0.112	20.31	0.107	20.29	0.107
10	QPSK	50	0	20.31	0.107	20.40	0.110	20.36	0.109
10	16QAM	1	0	21.08	0.128	21.07	0.128	20.99	0.126
10	16QAM	1	25	20.98	0.125	21.03	0.127	20.92	0.124
10	16QAM	1	49	20.96	0.125	20.75	0.119	20.59	0.115
10	16QAM	25	0	19.26	0.084	19.36	0.086	19.35	0.086
10	16QAM	25	12	19.40	0.087	19.29	0.085	19.20	0.083
10	16QAM	25	25	19.36	0.086	19.37	0.086	19.20	0.083
10	16QAM	50	0	19.34	0.086	19.38	0.087	19.31	0.085
10	64QAM	1	0	20.66	0.116	20.78	0.120	20.65	0.116
10	64QAM	1	25	20.61	0.115	20.41	0.110	20.80	0.120
10	64QAM	1	49	20.41	0.110	20.69	0.117	20.50	0.112
10	64QAM	25	0	19.32	0.086	19.29	0.085	19.32	0.086
10	64QAM	25	12	19.38	0.087	19.28	0.085	19.26	0.084
10	64QAM	25	25	19.30	0.085	19.29	0.085	19.17	0.083
10	64QAM	50	0	19.25	0.084	19.32	0.086	19.31	0.085



LTE Band5				Measured ERP					
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	21.34	0.136	21.42	0.139	21.30	0.135
5	QPSK	1	12	21.36	0.137	21.43	0.139	21.29	0.135
5	QPSK	1	24	21.78	0.151	21.71	0.148	21.50	0.141
5	QPSK	12	0	20.35	0.108	20.37	0.109	20.67	0.117
5	QPSK	12	7	20.34	0.108	20.30	0.107	20.18	0.104
5	QPSK	12	13	20.46	0.111	20.29	0.107	20.27	0.106
5	QPSK	25	0	20.29	0.107	20.38	0.109	20.34	0.108
5	16QAM	1	0	21.06	0.128	21.05	0.127	20.97	0.125
5	16QAM	1	12	20.96	0.125	21.01	0.126	20.90	0.123
5	16QAM	1	24	20.94	0.124	20.73	0.118	20.57	0.114
5	16QAM	12	0	19.24	0.084	19.34	0.086	19.33	0.086
5	16QAM	12	7	19.38	0.087	19.27	0.085	19.18	0.083
5	16QAM	12	13	19.34	0.086	19.35	0.086	19.18	0.083
5	16QAM	25	0	19.32	0.086	19.36	0.086	19.29	0.085
5	64QAM	1	0	20.64	0.116	20.76	0.119	20.63	0.116
5	64QAM	1	12	20.59	0.115	20.39	0.109	20.78	0.120
5	64QAM	1	24	20.39	0.109	20.67	0.117	20.48	0.112
5	64QAM	12	0	19.30	0.085	19.27	0.085	19.30	0.085
5	64QAM	12	7	19.36	0.086	19.26	0.084	19.24	0.084
5	64QAM	12	13	19.28	0.085	19.27	0.085	19.15	0.082
5	64QAM	25	0	19.23	0.084	19.30	0.085	19.29	0.085



LTE Band5				Measured ERP					
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	21.33	0.136	21.41	0.138	21.29	0.135
3	QPSK	1	8	21.35	0.136	21.42	0.139	21.28	0.134
3	QPSK	1	14	21.77	0.150	21.70	0.148	21.49	0.141
3	QPSK	8	0	20.34	0.108	20.36	0.109	20.66	0.116
3	QPSK	8	4	20.33	0.108	20.29	0.107	20.17	0.104
3	QPSK	8	7	20.45	0.111	20.28	0.107	20.26	0.106
3	QPSK	15	0	20.28	0.107	20.37	0.109	20.33	0.108
3	16QAM	1	0	21.05	0.127	21.04	0.127	20.96	0.125
3	16QAM	1	8	20.95	0.124	21.00	0.126	20.89	0.123
3	16QAM	1	14	20.93	0.124	20.72	0.118	20.56	0.114
3	16QAM	8	0	19.23	0.084	19.33	0.086	19.32	0.086
3	16QAM	8	4	19.37	0.086	19.26	0.084	19.17	0.083
3	16QAM	8	7	19.33	0.086	19.34	0.086	19.17	0.083
3	16QAM	15	0	19.31	0.085	19.35	0.086	19.28	0.085
3	64QAM	1	0	20.63	0.116	20.75	0.119	20.62	0.115
3	64QAM	1	8	20.58	0.114	20.38	0.109	20.77	0.119
3	64QAM	1	14	20.38	0.109	20.66	0.116	20.47	0.111
3	64QAM	8	0	19.29	0.085	19.26	0.084	19.29	0.085
3	64QAM	8	4	19.35	0.086	19.25	0.084	19.23	0.084
3	64QAM	8	7	19.27	0.085	19.26	0.084	19.14	0.082
3	64QAM	15	0	19.22	0.084	19.29	0.085	19.28	0.085



LTE Band5				Measured ERP					
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	21.35	0.136	21.43	0.139	21.31	0.135
1.4	QPSK	1	3	21.37	0.137	21.44	0.139	21.30	0.135
1.4	QPSK	1	5	21.79	0.151	21.72	0.148	21.51	0.141
1.4	QPSK	3	0	20.36	0.109	20.38	0.109	20.68	0.117
1.4	QPSK	3	1	20.35	0.108	20.31	0.107	20.19	0.104
1.4	QPSK	3	3	20.47	0.111	20.30	0.107	20.28	0.107
1.4	QPSK	6	0	20.30	0.107	20.39	0.109	20.35	0.108
1.4	16QAM	1	0	21.07	0.128	21.06	0.127	20.98	0.125
1.4	16QAM	1	3	20.97	0.125	21.02	0.126	20.91	0.123
1.4	16QAM	1	5	20.95	0.124	20.74	0.118	20.58	0.114
1.4	16QAM	3	0	19.25	0.084	19.35	0.086	19.34	0.086
1.4	16QAM	3	1	19.39	0.087	19.28	0.085	19.19	0.083
1.4	16QAM	3	3	19.35	0.086	19.36	0.086	19.19	0.083
1.4	16QAM	6	0	19.33	0.086	19.37	0.086	19.30	0.085
1.4	64QAM	1	0	20.65	0.116	20.77	0.119	20.64	0.116
1.4	64QAM	1	3	20.60	0.115	20.40	0.110	20.79	0.120
1.4	64QAM	1	5	20.40	0.110	20.68	0.117	20.49	0.112
1.4	64QAM	3	0	19.31	0.085	19.28	0.085	19.31	0.085
1.4	64QAM	3	1	19.37	0.086	19.27	0.084	19.25	0.084
1.4	64QAM	3	3	19.29	0.085	19.28	0.085	19.16	0.082
1.4	64QAM	6	0	19.24	0.084	19.31	0.085	19.30	0.085



LTE Band7				Measured EIRP					
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	22.92	0.196	23.10	0.204	23.07	0.203
20	QPSK	1	49	23.07	0.203	22.91	0.195	22.89	0.195
20	QPSK	1	99	23.34	0.216	22.85	0.193	22.94	0.197
20	QPSK	50	0	22.03	0.160	21.97	0.157	22.04	0.160
20	QPSK	50	24	22.10	0.162	22.16	0.164	22.04	0.160
20	QPSK	50	50	22.12	0.163	21.98	0.158	21.97	0.157
20	QPSK	100	0	22.10	0.162	22.08	0.161	22.03	0.160
20	16QAM	1	0	22.16	0.164	22.11	0.163	21.99	0.158
20	16QAM	1	49	22.38	0.173	22.12	0.163	22.43	0.175
20	16QAM	1	99	22.24	0.167	22.00	0.158	22.35	0.172
20	16QAM	50	0	21.04	0.127	21.03	0.127	20.96	0.125
20	16QAM	50	24	21.05	0.127	21.06	0.128	21.05	0.127
20	16QAM	50	50	21.09	0.129	20.84	0.121	20.99	0.126
20	16QAM	100	0	21.09	0.129	21.15	0.130	21.02	0.126
20	64QAM	1	0	22.14	0.164	22.22	0.167	22.38	0.173
20	64QAM	1	49	22.07	0.161	22.38	0.173	22.16	0.164
20	64QAM	1	99	22.47	0.177	22.09	0.162	22.09	0.162
20	64QAM	50	0	20.98	0.125	20.99	0.126	21.01	0.126
20	64QAM	50	24	21.08	0.128	21.08	0.128	21.05	0.127
20	64QAM	50	50	21.09	0.129	21.00	0.126	20.95	0.124
20	64QAM	100	0	21.05	0.127	21.00	0.126	21.05	0.127



LTE Band7				Measured EIRP					
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	22.95	0.197	22.90	0.195	22.97	0.198
15	QPSK	1	37	22.87	0.194	23.06	0.202	22.99	0.199
15	QPSK	1	74	23.11	0.205	22.91	0.195	22.90	0.195
15	QPSK	36	0	22.08	0.161	22.04	0.160	21.98	0.158
15	QPSK	36	20	22.10	0.162	22.08	0.161	22.04	0.160
15	QPSK	36	39	22.08	0.161	21.80	0.151	21.99	0.158
15	QPSK	75	0	22.05	0.160	22.01	0.159	22.07	0.161
15	16QAM	1	0	21.99	0.158	22.12	0.163	22.15	0.164
15	16QAM	1	37	22.40	0.174	22.25	0.168	21.98	0.158
15	16QAM	1	74	22.42	0.175	22.08	0.161	22.41	0.174
15	16QAM	36	0	21.06	0.128	20.98	0.125	20.90	0.123
15	16QAM	36	20	21.10	0.129	21.01	0.126	21.03	0.127
15	16QAM	36	39	21.07	0.128	21.04	0.127	20.93	0.124
15	16QAM	75	0	21.04	0.127	21.07	0.128	21.04	0.127
15	64QAM	1	0	22.07	0.161	22.04	0.160	22.09	0.162
15	64QAM	1	37	21.82	0.152	22.04	0.160	22.11	0.163
15	64QAM	1	74	21.85	0.153	21.94	0.156	22.01	0.159
15	64QAM	36	0	21.05	0.127	20.96	0.125	20.81	0.121
15	64QAM	36	20	20.98	0.125	20.97	0.125	21.00	0.126
15	64QAM	36	39	21.09	0.129	20.99	0.126	20.93	0.124
15	64QAM	75	0	21.04	0.127	21.05	0.127	21.05	0.127



LTE Band7				Measured EIRP					
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	23.14	0.206	23.21	0.209	23.22	0.210
10	QPSK	1	25	23.25	0.211	23.19	0.208	23.11	0.205
10	QPSK	1	49	23.12	0.205	23.24	0.211	23.22	0.210
10	QPSK	25	0	22.31	0.170	22.25	0.168	22.20	0.166
10	QPSK	25	12	22.23	0.167	22.22	0.167	22.15	0.164
10	QPSK	25	25	22.14	0.164	22.29	0.169	22.13	0.163
10	QPSK	50	0	22.30	0.170	22.27	0.169	22.22	0.167
10	16QAM	1	0	22.84	0.192	22.88	0.194	22.58	0.181
10	16QAM	1	25	22.72	0.187	22.74	0.188	22.58	0.181
10	16QAM	1	49	22.50	0.178	22.50	0.178	22.69	0.186
10	16QAM	25	0	21.28	0.134	21.27	0.134	21.30	0.135
10	16QAM	25	12	21.21	0.132	21.14	0.130	21.13	0.130
10	16QAM	25	25	21.18	0.131	21.32	0.136	21.08	0.128
10	16QAM	50	0	21.29	0.135	21.15	0.130	21.22	0.132
10	64QAM	1	0	22.31	0.170	22.65	0.184	22.63	0.183
10	64QAM	1	25	22.37	0.173	22.45	0.176	22.25	0.168
10	64QAM	1	49	22.39	0.173	22.22	0.167	22.28	0.169
10	64QAM	25	0	21.20	0.132	21.16	0.131	21.20	0.132
10	64QAM	25	12	21.27	0.134	21.28	0.134	21.25	0.133
10	64QAM	25	25	21.20	0.132	21.26	0.134	21.10	0.129
10	64QAM	50	0	21.25	0.133	21.32	0.136	21.16	0.131



LTE Band7				Measured EIRP					
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	23.05	0.202	22.82	0.191	23.08	0.203
5	QPSK	1	12	23.02	0.200	22.86	0.193	22.93	0.196
5	QPSK	1	24	22.88	0.194	23.01	0.200	22.86	0.193
5	QPSK	12	0	21.95	0.157	21.93	0.156	21.91	0.155
5	QPSK	12	7	21.92	0.156	21.96	0.157	21.93	0.156
5	QPSK	12	13	21.91	0.155	21.99	0.158	21.92	0.156
5	QPSK	25	0	21.95	0.157	21.92	0.156	21.88	0.154
5	16QAM	1	0	22.25	0.168	22.15	0.164	22.63	0.183
5	16QAM	1	12	22.14	0.164	22.44	0.175	22.38	0.173
5	16QAM	1	24	22.34	0.171	22.22	0.167	22.59	0.182
5	16QAM	12	0	20.95	0.124	20.96	0.125	21.01	0.126
5	16QAM	12	7	20.94	0.124	20.87	0.122	20.83	0.121
5	16QAM	12	13	20.93	0.124	20.92	0.124	20.93	0.124
5	16QAM	25	0	21.04	0.127	20.98	0.125	20.94	0.124
5	64QAM	1	0	21.87	0.154	22.19	0.166	21.91	0.155
5	64QAM	1	12	21.91	0.155	22.11	0.163	21.90	0.155
5	64QAM	1	24	22.19	0.166	22.18	0.165	21.85	0.153
5	64QAM	12	0	20.92	0.124	20.97	0.125	20.87	0.122
5	64QAM	12	7	20.92	0.124	21.09	0.129	20.87	0.122
5	64QAM	12	13	20.88	0.122	20.91	0.123	20.95	0.124
5	64QAM	25	0	20.88	0.122	20.95	0.124	20.93	0.124





LTE Band38				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37850		38000		38150	
Frequency (MHz)				2580		2595		2610	
				dbm	W	dbm	W	dbm	W
20	QPSK	1	0	23.28	0.213	23.77	0.238	23.31	0.214
20	QPSK	1	49	23.47	0.222	23.31	0.214	23.28	0.213
20	QPSK	1	99	23.52	0.225	23.46	0.222	23.55	0.226
20	QPSK	50	0	22.55	0.180	22.48	0.177	22.58	0.181
20	QPSK	50	24	22.42	0.175	22.56	0.180	22.31	0.170
20	QPSK	50	50	22.57	0.181	22.61	0.182	22.44	0.175
20	QPSK	100	0	22.51	0.178	22.53	0.179	22.46	0.176
20	16QAM	1	0	22.72	0.187	22.84	0.192	22.63	0.183
20	16QAM	1	49	22.66	0.185	22.76	0.189	22.65	0.184
20	16QAM	1	99	23.10	0.204	22.70	0.186	22.78	0.190
20	16QAM	50	0	21.62	0.145	21.54	0.143	21.56	0.143
20	16QAM	50	24	21.62	0.145	21.53	0.142	21.47	0.140
20	16QAM	50	50	21.69	0.148	21.58	0.144	21.62	0.145
20	16QAM	100	0	21.62	0.145	21.61	0.145	21.54	0.143
20	64QAM	1	0	22.46	0.176	22.71	0.187	22.62	0.183
20	64QAM	1	49	22.83	0.192	22.75	0.188	22.83	0.192
20	64QAM	1	99	22.70	0.186	22.64	0.184	22.55	0.180
20	64QAM	50	0	21.44	0.139	21.44	0.139	21.39	0.138
20	64QAM	50	24	21.33	0.136	21.55	0.143	21.31	0.135
20	64QAM	50	50	21.51	0.142	21.63	0.146	21.36	0.137
20	64QAM	100	0	21.64	0.146	21.43	0.139	21.65	0.146



LTE Band38				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37825		38000		38175	
Frequency (MHz)				2577.5		2595		2612.5	
				dbm	W	dbm	W	dbm	W
15	QPSK	1	0	23.46	0.222	23.53	0.225	23.70	0.234
15	QPSK	1	37	23.54	0.226	23.41	0.219	23.40	0.219
15	QPSK	1	74	23.69	0.234	23.71	0.235	23.43	0.220
15	QPSK	36	0	22.41	0.174	22.56	0.180	22.44	0.175
15	QPSK	36	20	22.65	0.184	22.33	0.171	22.33	0.171
15	QPSK	36	39	22.71	0.187	22.58	0.181	22.49	0.177
15	QPSK	75	0	22.46	0.176	22.38	0.173	22.42	0.175
15	16QAM	1	0	23.06	0.202	22.93	0.196	22.78	0.190
15	16QAM	1	37	22.76	0.189	22.63	0.183	22.82	0.191
15	16QAM	1	74	22.90	0.195	22.77	0.189	23.04	0.201
15	16QAM	36	0	21.44	0.139	21.49	0.141	21.47	0.140
15	16QAM	36	20	21.52	0.142	21.37	0.137	21.36	0.137
15	16QAM	36	39	21.55	0.143	21.52	0.142	21.52	0.142
15	16QAM	75	0	21.47	0.140	21.55	0.143	21.40	0.138
15	64QAM	1	0	22.51	0.178	22.82	0.191	22.88	0.194
15	64QAM	1	37	22.94	0.197	22.98	0.199	22.52	0.179
15	64QAM	1	74	22.66	0.185	22.64	0.184	22.69	0.186
15	64QAM	36	0	21.47	0.140	21.50	0.141	21.50	0.141
15	64QAM	36	20	21.54	0.143	21.29	0.135	21.38	0.137
15	64QAM	36	39	21.70	0.148	21.44	0.139	21.55	0.143
15	64QAM	75	0	21.45	0.140	21.52	0.142	21.39	0.138



LTE Band38				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37800		38000		38200	
Frequency (MHz)				2575		2595		2615	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	23.51	0.224	23.37	0.217	23.52	0.225
10	QPSK	1	25	23.55	0.226	23.63	0.231	23.59	0.229
10	QPSK	1	49	23.67	0.233	23.68	0.233	23.62	0.230
10	QPSK	25	0	22.72	0.187	22.68	0.185	22.63	0.183
10	QPSK	25	12	22.77	0.189	22.76	0.189	22.65	0.184
10	QPSK	25	25	22.71	0.187	22.74	0.188	22.73	0.187
10	QPSK	50	0	22.71	0.187	22.63	0.183	22.63	0.183
10	16QAM	1	0	23.18	0.208	23.13	0.206	23.16	0.207
10	16QAM	1	25	23.11	0.205	22.82	0.191	22.82	0.191
10	16QAM	1	49	23.29	0.213	22.83	0.192	23.23	0.210
10	16QAM	25	0	21.73	0.149	21.84	0.153	21.82	0.152
10	16QAM	25	12	21.78	0.151	21.77	0.150	21.55	0.143
10	16QAM	25	25	21.87	0.154	21.84	0.153	21.82	0.152
10	16QAM	50	0	21.84	0.153	21.53	0.142	21.72	0.149
10	64QAM	1	0	22.23	0.167	22.60	0.182	22.19	0.166
10	64QAM	1	25	22.32	0.171	22.51	0.178	22.26	0.168
10	64QAM	1	49	22.16	0.164	22.25	0.168	22.20	0.166
10	64QAM	25	0	21.21	0.132	21.63	0.146	21.28	0.134
10	64QAM	25	12	21.24	0.133	21.56	0.143	21.31	0.135
10	64QAM	25	25	21.17	0.131	21.46	0.140	21.22	0.132
10	64QAM	50	0	21.17	0.131	21.51	0.142	21.29	0.135



LTE Band38				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37775		38000		38225	
Frequency (MHz)				2572.5		2595		2617.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	23.23	0.210	23.55	0.226	23.21	0.209
5	QPSK	1	12	23.35	0.216	23.48	0.223	23.20	0.209
5	QPSK	1	24	23.16	0.207	23.18	0.208	23.11	0.205
5	QPSK	12	0	22.40	0.174	22.66	0.185	22.38	0.173
5	QPSK	12	7	22.41	0.174	22.68	0.185	22.42	0.175
5	QPSK	12	13	22.35	0.172	22.57	0.181	22.33	0.171
5	QPSK	25	0	22.33	0.171	22.61	0.182	22.39	0.173
5	16QAM	1	0	22.42	0.175	22.73	0.187	22.42	0.175
5	16QAM	1	12	22.57	0.181	22.77	0.189	22.50	0.178
5	16QAM	1	24	22.40	0.174	22.49	0.177	22.44	0.175
5	16QAM	12	0	21.39	0.138	21.81	0.152	21.46	0.140
5	16QAM	12	7	21.42	0.139	21.74	0.149	21.49	0.141
5	16QAM	12	13	21.36	0.137	21.64	0.146	21.40	0.138
5	16QAM	25	0	21.36	0.137	21.71	0.148	21.48	0.141
5	64QAM	1	0	22.35	0.172	22.72	0.187	22.31	0.170
5	64QAM	1	12	22.44	0.175	22.63	0.183	22.38	0.173
5	64QAM	1	24	22.28	0.169	22.37	0.173	22.32	0.171
5	64QAM	12	0	21.33	0.136	21.75	0.150	21.40	0.138
5	64QAM	12	7	21.36	0.137	21.68	0.147	21.43	0.139
5	64QAM	12	13	21.29	0.135	21.58	0.144	21.34	0.136
5	64QAM	25	0	21.29	0.135	21.63	0.146	21.41	0.138



LTE Band 40 (2305MHz ~ 2315MHz)				Measured EIRP			
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.	
Channel				/	38750	/	
Frequency (MHz)				/	2310	/	
				/	dbm	W	/
10	QPSK	1	0	/	23.58	0.228	/
10	QPSK	1	25	/	23.61	0.230	/
10	QPSK	1	49	/	23.69	0.234	/
10	QPSK	25	0	/	22.63	0.183	/
10	QPSK	25	12	/	22.58	0.181	/
10	QPSK	25	25	/	22.52	0.179	/
10	QPSK	50	0	/	22.74	0.188	/
10	16QAM	1	0	/	23.00	0.200	/
10	16QAM	1	25	/	23.11	0.205	/
10	16QAM	1	49	/	23.14	0.206	/
10	16QAM	25	0	/	21.71	0.148	/
10	16QAM	25	12	/	21.78	0.151	/
10	16QAM	25	25	/	21.62	0.145	/
10	16QAM	50	0	/	21.66	0.147	/
10	64QAM	1	0	/	22.42	0.175	/
10	64QAM	1	25	/	22.71	0.187	/
10	64QAM	1	49	/	22.89	0.195	/
10	64QAM	25	0	/	21.63	0.146	/
10	64QAM	25	12	/	21.70	0.148	/
10	64QAM	25	25	/	21.55	0.143	/
10	64QAM	50	0	/	21.59	0.144	/



LTE Band 40 (2305MHz ~ 2315MHz)				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				38725		38750		38775	
Frequency (MHz)				2307.5		2310		2312.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	23.45	0.221	23.66	0.232	23.39	0.218
5	QPSK	1	12	23.56	0.227	23.54	0.226	23.53	0.225
5	QPSK	1	24	23.50	0.224	23.52	0.225	23.49	0.223
5	QPSK	12	0	22.63	0.183	22.69	0.186	22.70	0.186
5	QPSK	12	7	22.58	0.181	22.70	0.186	22.60	0.182
5	QPSK	12	13	22.52	0.179	22.67	0.185	22.46	0.176
5	QPSK	25	0	22.60	0.182	22.53	0.179	22.53	0.179
5	16QAM	1	0	22.89	0.195	22.79	0.190	22.88	0.194
5	16QAM	1	12	22.96	0.198	23.01	0.200	22.57	0.181
5	16QAM	1	24	22.74	0.188	22.99	0.199	22.79	0.190
5	16QAM	12	0	21.62	0.145	21.74	0.149	21.64	0.146
5	16QAM	12	7	21.58	0.144	21.63	0.146	21.54	0.143
5	16QAM	12	13	21.64	0.146	21.61	0.145	21.51	0.142
5	16QAM	25	0	21.63	0.146	21.59	0.144	21.60	0.145
5	64QAM	1	0	22.48	0.177	22.89	0.195	22.78	0.190
5	64QAM	1	12	22.66	0.185	22.69	0.186	22.70	0.186
5	64QAM	1	24	22.80	0.191	22.69	0.186	22.68	0.185
5	64QAM	12	0	21.64	0.146	21.58	0.144	21.58	0.144
5	64QAM	12	7	21.62	0.145	21.58	0.144	21.50	0.141
5	64QAM	12	13	21.56	0.143	21.53	0.142	21.45	0.140
5	64QAM	25	0	21.56	0.143	21.62	0.145	21.53	0.142



LTE Band 40 (2350MHz ~ 2360MHz)				Measured EIRP			
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.	
Channel				/	39200	/	
Frequency (MHz)				/	2355	/	
				/	dbm	W	
10	QPSK	1	0	/	23.48	0.223	
10	QPSK	1	25	/	23.67	0.233	
10	QPSK	1	49	/	23.79	0.239	
10	QPSK	25	0	/	22.69	0.186	
10	QPSK	25	12	/	22.67	0.185	
10	QPSK	25	25	/	22.78	0.190	
10	QPSK	50	0	/	22.63	0.183	
10	16QAM	1	0	/	23.26	0.212	
10	16QAM	1	25	/	22.97	0.198	
10	16QAM	1	49	/	23.29	0.213	
10	16QAM	25	0	/	21.68	0.147	
10	16QAM	25	12	/	21.66	0.147	
10	16QAM	25	25	/	21.81	0.152	
10	16QAM	50	0	/	21.63	0.146	
10	64QAM	1	0	/	22.45	0.176	
10	64QAM	1	25	/	22.73	0.187	
10	64QAM	1	49	/	22.95	0.197	
10	64QAM	25	0	/	21.71	0.148	
10	64QAM	25	12	/	21.67	0.147	
10	64QAM	25	25	/	21.73	0.149	
10	64QAM	50	0	/	21.75	0.150	



LTE Band 40 (2350MHz ~ 2360MHz)				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39175		39200		39225	
Frequency (MHz)				2352.5		2355		2357.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	23.54	0.226	23.44	0.221	23.66	0.232
5	QPSK	1	12	23.53	0.225	23.56	0.227	23.64	0.231
5	QPSK	1	24	23.55	0.226	23.55	0.226	23.62	0.230
5	QPSK	12	0	22.63	0.183	22.70	0.186	22.75	0.188
5	QPSK	12	7	22.60	0.182	22.63	0.183	22.73	0.187
5	QPSK	12	13	22.55	0.180	22.66	0.185	22.66	0.185
5	QPSK	25	0	22.66	0.185	22.57	0.181	22.66	0.185
5	16QAM	1	0	23.18	0.208	22.98	0.199	23.06	0.202
5	16QAM	1	12	23.15	0.207	22.84	0.192	22.93	0.196
5	16QAM	1	24	22.69	0.186	22.74	0.188	23.10	0.204
5	16QAM	12	0	21.71	0.148	21.73	0.149	21.90	0.155
5	16QAM	12	7	21.64	0.146	21.78	0.151	21.66	0.147
5	16QAM	12	13	21.65	0.146	21.70	0.148	21.71	0.148
5	16QAM	25	0	21.79	0.151	21.62	0.145	21.72	0.149
5	64QAM	1	0	22.49	0.177	22.78	0.190	22.95	0.197
5	64QAM	1	12	22.60	0.182	22.89	0.195	22.69	0.186
5	64QAM	1	24	22.76	0.189	22.79	0.190	22.80	0.191
5	64QAM	12	0	21.73	0.149	21.66	0.147	21.64	0.146
5	64QAM	12	7	21.58	0.144	21.72	0.149	21.61	0.145
5	64QAM	12	13	21.57	0.144	21.72	0.149	21.65	0.146
5	64QAM	25	0	21.60	0.145	21.66	0.147	21.66	0.147





LTE Band 41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				40140		40640		41140	
Frequency (MHz)				2565		2595		2645	
				dbm	W	dbm	W	dbm	W
20	QPSK	1	0	23.64	0.231	23.39	0.218	23.38	0.218
20	QPSK	1	49	23.63	0.231	23.33	0.215	23.29	0.213
20	QPSK	1	99	23.68	0.233	23.5	0.224	23.25	0.211
20	QPSK	50	0	22.57	0.181	22.65	0.184	22.45	0.176
20	QPSK	50	24	22.71	0.187	22.66	0.185	22.42	0.175
20	QPSK	50	50	22.64	0.184	22.61	0.182	22.37	0.173
20	QPSK	100	0	22.57	0.181	22.57	0.181	22.64	0.184
20	16QAM	1	0	23.19	0.208	22.85	0.193	22.73	0.187
20	16QAM	1	49	22.85	0.193	22.95	0.197	22.72	0.187
20	16QAM	1	99	23.08	0.203	22.72	0.187	22.70	0.186
20	16QAM	50	0	21.65	0.146	21.62	0.145	21.59	0.144
20	16QAM	50	24	21.73	0.149	21.58	0.144	21.49	0.141
20	16QAM	50	50	21.55	0.143	21.71	0.148	21.45	0.140
20	16QAM	100	0	21.78	0.151	21.73	0.149	21.69	0.148
20	64QAM	1	0	22.57	0.181	22.83	0.192	22.62	0.183
20	64QAM	1	49	22.98	0.199	22.91	0.195	22.48	0.177
20	64QAM	1	99	22.94	0.197	22.66	0.185	22.55	0.180
20	64QAM	50	0	21.67	0.147	21.63	0.146	21.52	0.142
20	64QAM	50	24	21.75	0.150	21.68	0.147	21.42	0.139
20	64QAM	50	50	21.68	0.147	21.42	0.139	21.38	0.137
20	64QAM	100	0	21.81	0.152	21.68	0.147	21.38	0.137



LTE Band 41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				40315		40640		41165	
Frequency (MHz)				2562.5		2595		2647.5	
				dbm	W	dbm	W	dbm	W
15	QPSK	1	0	23.53	0.225	23.39	0.218	23.23	0.210
15	QPSK	1	37	23.51	0.224	23.51	0.224	23.21	0.209
15	QPSK	1	74	23.07	0.203	23.13	0.206	23.21	0.209
15	QPSK	36	0	22.62	0.183	22.72	0.187	22.47	0.177
15	QPSK	36	20	22.67	0.185	22.42	0.175	22.24	0.167
15	QPSK	36	39	22.23	0.167	22.31	0.170	22.28	0.169
15	QPSK	75	0	22.51	0.178	22.3	0.170	22.14	0.164
15	16QAM	1	0	22.69	0.186	22.37	0.173	22.24	0.167
15	16QAM	1	37	22.68	0.185	22.29	0.169	22.21	0.166
15	16QAM	1	74	22.55	0.180	22.27	0.169	22.58	0.181
15	16QAM	36	0	21.59	0.144	21.64	0.146	21.48	0.141
15	16QAM	36	20	21.64	0.146	21.45	0.140	21.32	0.136
15	16QAM	36	39	21.21	0.132	21.25	0.133	21.19	0.132
15	16QAM	75	0	21.53	0.142	21.29	0.135	21.28	0.134
15	64QAM	1	0	22.49	0.177	22.51	0.178	22.30	0.170
15	64QAM	1	37	22.57	0.181	22.51	0.178	22.28	0.169
15	64QAM	1	74	22.33	0.171	22.53	0.179	22.44	0.175
15	64QAM	36	0	21.67	0.147	21.63	0.146	21.52	0.142
15	64QAM	36	20	21.55	0.143	21.46	0.140	21.34	0.136
15	64QAM	36	39	21.33	0.136	21.26	0.134	21.21	0.132
15	64QAM	75	0	21.41	0.138	21.36	0.137	21.28	0.134



LTE Band 41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				40290		40640		41190	
Frequency (MHz)				2550		2595		2650	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	23.57	0.228	23.48	0.223	23.50	0.224
10	QPSK	1	25	23.52	0.225	23.54	0.226	23.50	0.224
10	QPSK	1	49	23.45	0.221	23.61	0.230	23.41	0.219
10	QPSK	25	0	22.86	0.193	22.68	0.185	22.38	0.173
10	QPSK	25	12	22.79	0.190	22.69	0.186	22.58	0.181
10	QPSK	25	25	22.68	0.185	22.55	0.180	22.49	0.177
10	QPSK	50	0	22.81	0.191	22.62	0.183	22.56	0.180
10	16QAM	1	0	23.11	0.205	23.12	0.205	23.03	0.201
10	16QAM	1	25	23.07	0.203	22.73	0.187	22.74	0.188
10	16QAM	1	49	23.14	0.206	22.92	0.196	22.79	0.190
10	16QAM	25	0	21.77	0.150	21.68	0.147	21.79	0.151
10	16QAM	25	12	21.74	0.149	21.68	0.147	21.67	0.147
10	16QAM	25	25	21.83	0.152	21.77	0.150	21.69	0.148
10	16QAM	50	0	21.65	0.146	21.62	0.145	21.65	0.146
10	64QAM	1	0	23.57	0.228	23.18	0.208	23.50	0.224
10	64QAM	1	25	23.52	0.225	22.59	0.182	23.50	0.224
10	64QAM	1	49	23.45	0.221	22.86	0.193	23.41	0.219
10	64QAM	25	0	22.86	0.193	21.67	0.147	22.38	0.173
10	64QAM	25	12	22.79	0.190	21.62	0.145	22.58	0.181
10	64QAM	25	25	22.68	0.185	21.83	0.152	22.49	0.177
10	64QAM	50	0	22.81	0.191	21.64	0.146	22.56	0.180



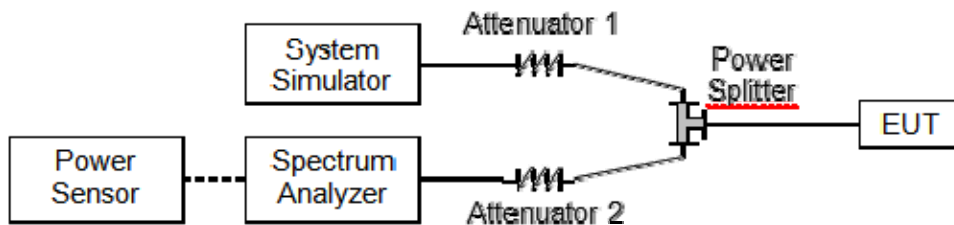
LTE Band 41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				40265		40640		41215	
Frequency (MHz)				2557.5		2595		2652.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	23.36	0.217	23.58	0.228	23.43	0.220
5	QPSK	1	12	23.58	0.228	23.57	0.228	23.59	0.229
5	QPSK	1	24	23.50	0.224	23.53	0.225	23.64	0.231
5	QPSK	12	0	23.14	0.206	22.98	0.199	22.89	0.195
5	QPSK	12	7	23.11	0.205	22.95	0.197	22.94	0.197
5	QPSK	12	13	23.09	0.204	22.81	0.191	22.79	0.190
5	QPSK	25	0	22.85	0.193	22.6	0.182	22.65	0.184
5	16QAM	1	0	23.26	0.212	23.01	0.200	22.88	0.194
5	16QAM	1	12	23.20	0.209	22.99	0.199	22.99	0.199
5	16QAM	1	24	23.08	0.203	22.92	0.196	22.79	0.190
5	16QAM	12	0	22.19	0.166	21.69	0.148	21.81	0.152
5	16QAM	12	7	22.13	0.163	21.86	0.153	21.86	0.153
5	16QAM	12	13	21.79	0.151	21.69	0.148	21.69	0.148
5	16QAM	25	0	21.77	0.150	21.71	0.148	21.70	0.148
5	64QAM	1	0	22.84	0.192	22.91	0.195	22.89	0.195
5	64QAM	1	12	22.92	0.196	22.76	0.189	22.89	0.195
5	64QAM	1	24	22.82	0.191	22.87	0.194	22.90	0.195
5	64QAM	12	0	21.69	0.148	21.62	0.145	21.70	0.148
5	64QAM	12	7	21.76	0.150	21.6	0.145	21.69	0.148
5	64QAM	12	13	21.75	0.150	21.63	0.146	21.74	0.149
5	64QAM	25	0	21.83	0.152	21.64	0.146	21.77	0.150

## 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 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

### 2.2.3. Test procedure

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

### 2.2.4. Test Result



LTE Band 2				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.28
	Low	16QAM	1.10	1.29
	Low	64QAM	1.10	1.31
	Mid	QPSK	1.10	1.27
	Mid	16QAM	1.10	1.29
	Mid	64QAM	1.10	1.31
	High	QPSK	1.10	1.28
	High	16QAM	1.10	1.31
	High	64QAM	1.10	1.32
3	Low	QPSK	2.70	2.99
	Low	16QAM	2.70	3.00
	Low	64QAM	2.71	2.98
	Mid	QPSK	2.70	2.96
	Mid	16QAM	2.70	2.98
	Mid	64QAM	2.71	3.02
	High	QPSK	2.70	3.00
	High	16QAM	2.70	2.99
	High	64QAM	2.71	3.00
5	Low	QPSK	4.50	5.00
	Low	16QAM	4.51	5.00
	Low	64QAM	4.50	5.01
	Mid	QPSK	4.51	4.99
	Mid	16QAM	4.51	4.99
	Mid	64QAM	4.50	5.01
	High	QPSK	4.50	4.99
	High	16QAM	4.50	4.97
	High	64QAM	4.50	4.99
10	Low	QPSK	8.99	9.83
	Low	16QAM	8.95	9.84
	Low	64QAM	8.98	9.87
	Mid	QPSK	9.01	9.85
	Mid	16QAM	8.95	9.86
	Mid	64QAM	8.98	9.90
	High	QPSK	8.97	9.84
	High	16QAM	8.93	9.80
	High	64QAM	8.96	9.79



15	Low	QPSK	13.44	14.69
	Low	16QAM	13.47	14.74
	Low	64QAM	13.47	14.74
	Mid	QPSK	13.46	14.65
	Mid	16QAM	13.46	14.63
	Mid	64QAM	13.46	14.79
	High	QPSK	13.43	14.67
	High	16QAM	13.43	14.78
	High	64QAM	13.43	14.65
20	Low	QPSK	17.94	19.41
	Low	16QAM	17.95	19.48
	Low	64QAM	17.96	19.47
	Mid	QPSK	17.92	19.52
	Mid	16QAM	17.97	19.41
	Mid	64QAM	17.92	19.45
	High	QPSK	17.92	19.49
	High	16QAM	17.93	19.42
	High	64QAM	17.92	19.39



LTE Band 4				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.27
	Low	16QAM	1.10	1.31
	Low	64QAM	1.10	1.30
	Mid	QPSK	1.10	1.28
	Mid	16QAM	1.10	1.29
	Mid	64QAM	1.10	1.30
	High	QPSK	1.10	1.27
	High	16QAM	1.10	1.30
	High	64QAM	1.10	1.29
3	Low	QPSK	2.70	2.98
	Low	16QAM	2.70	2.99
	Low	64QAM	2.71	2.99
	Mid	QPSK	2.70	2.98
	Mid	16QAM	2.70	3.01
	Mid	64QAM	2.71	3.00
	High	QPSK	2.70	2.98
	High	16QAM	2.70	2.99
	High	64QAM	2.71	2.99
5	Low	QPSK	4.50	5.03
	Low	16QAM	4.50	4.98
	Low	64QAM	4.49	4.99
	Mid	QPSK	4.51	5.02
	Mid	16QAM	4.51	5.00
	Mid	64QAM	4.50	5.00
	High	QPSK	4.51	5.01
	High	16QAM	4.50	5.00
	High	64QAM	4.50	4.96
10	Low	QPSK	8.99	9.86
	Low	16QAM	8.95	9.83
	Low	64QAM	8.98	9.88
	Mid	QPSK	9.00	9.90
	Mid	16QAM	8.96	9.80
	Mid	64QAM	8.98	9.83
	High	QPSK	8.98	9.87
	High	16QAM	8.96	9.79
	High	64QAM	8.96	9.91





15	Low	QPSK	13.48	14.68
	Low	16QAM	13.44	14.69
	Low	64QAM	13.46	14.59
	Mid	QPSK	13.45	14.77
	Mid	16QAM	13.48	14.69
	Mid	64QAM	13.47	14.75
	High	QPSK	13.44	14.70
	High	16QAM	13.44	14.69
	High	64QAM	13.45	14.75
20	Low	QPSK	17.91	19.50
	Low	16QAM	17.93	19.48
	Low	64QAM	17.94	19.35
	Mid	QPSK	17.98	19.57
	Mid	16QAM	17.99	19.60
	Mid	64QAM	17.99	19.53
	High	QPSK	17.92	19.53
	High	16QAM	17.94	19.47
	High	64QAM	17.93	19.46



LTE Band 5				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.29
	Low	16QAM	1.09	1.29
	Low	64QAM	1.10	1.30
	Mid	QPSK	1.10	1.29
	Mid	16QAM	1.10	1.28
	Mid	64QAM	1.10	1.30
	High	QPSK	1.10	1.28
	High	16QAM	1.10	1.29
	High	64QAM	1.10	1.30
3	Low	QPSK	2.70	2.96
	Low	16QAM	2.70	3.01
	Low	64QAM	2.71	3.00
	Mid	QPSK	2.70	2.98
	Mid	16QAM	2.70	3.00
	Mid	64QAM	2.71	3.01
	High	QPSK	2.70	2.99
	High	16QAM	2.70	3.00
	High	64QAM	2.71	3.00
5	Low	QPSK	4.51	5.03
	Low	16QAM	4.51	5.05
	Low	64QAM	4.50	5.01
	Mid	QPSK	4.50	5.02
	Mid	16QAM	4.5	5.05
	Mid	64QAM	4.51	4.97
	High	QPSK	4.50	5.02
	High	16QAM	4.51	5.01
	High	64QAM	4.50	5.00
10	Low	QPSK	8.98	9.87
	Low	16QAM	8.96	9.75
	Low	64QAM	8.99	9.87
	Mid	QPSK	8.98	9.84
	Mid	16QAM	8.95	9.81
	Mid	64QAM	8.98	9.85
	High	QPSK	9.01	9.86
	High	16QAM	8.95	9.8
	High	64QAM	8.98	9.86



LTE Band7				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.51	5.02
	Low	16QAM	4.51	4.97
	Low	64QAM	4.50	4.96
	Mid	QPSK	4.51	5.03
	Mid	16QAM	4.50	5.00
	Mid	64QAM	4.50	5.00
	High	QPSK	4.51	5.02
	High	16QAM	4.50	5.01
	High	64QAM	4.49	4.99
10	Low	QPSK	9.01	9.87
	Low	16QAM	8.97	9.79
	Low	64QAM	8.98	9.85
	Mid	QPSK	9.00	9.86
	Mid	16QAM	8.96	9.83
	Mid	64QAM	8.98	9.94
	High	QPSK	9.01	9.89
	High	16QAM	8.96	9.85
	High	64QAM	8.98	9.84
15	Low	QPSK	13.49	14.67
	Low	16QAM	13.47	14.72
	Low	64QAM	13.50	14.79
	Mid	QPSK	13.47	14.70
	Mid	16QAM	13.48	14.72
	Mid	64QAM	13.47	14.67
	High	QPSK	13.48	14.75
	High	16QAM	13.45	14.79
	High	64QAM	13.48	14.70
20	Low	QPSK	17.95	19.51
	Low	16QAM	17.98	19.62
	Low	64QAM	17.98	19.57
	Mid	QPSK	17.95	19.52
	Mid	16QAM	17.96	19.52
	Mid	64QAM	17.97	19.52
	High	QPSK	17.97	19.49
	High	16QAM	17.96	19.51
	High	64QAM	17.97	19.53



LTE Band 38				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.50	5.05
	Low	16QAM	4.50	5.00
	Low	64QAM	4.49	4.94
	Mid	QPSK	4.51	5.05
	Mid	16QAM	4.49	5.06
	Mid	64QAM	4.50	4.97
	High	QPSK	4.51	5.09
	High	16QAM	4.52	5.01
	High	64QAM	4.49	4.90
10	Low	QPSK	8.99	9.99
	Low	16QAM	8.95	10.12
	Low	64QAM	8.95	9.80
	Mid	QPSK	8.99	9.83
	Mid	16QAM	8.97	10.31
	Mid	64QAM	8.98	10.06
	High	QPSK	8.98	9.89
	High	16QAM	8.96	10.18
	High	64QAM	8.99	10.26
15	Low	QPSK	13.50	14.46
	Low	16QAM	13.45	14.65
	Low	64QAM	13.47	14.82
	Mid	QPSK	13.49	14.86
	Mid	16QAM	13.48	14.77
	Mid	64QAM	13.48	14.83
	High	QPSK	13.45	14.73
	High	16QAM	13.46	14.76
	High	64QAM	13.49	14.68
20	Low	QPSK	17.95	19.94
	Low	16QAM	17.89	20.81
	Low	64QAM	17.92	20.53
	Mid	QPSK	17.94	19.54
	Mid	16QAM	17.97	21.53
	Mid	64QAM	17.94	19.52
	High	QPSK	17.98	20.52
	High	16QAM	17.93	20.64
	High	64QAM	17.98	20.49



LTE Band 40 (2305MHz ~ 2315MHz)				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.49	4.98
	Low	16QAM	4.48	4.94
	Low	64QAM	4.48	4.94
	Mid	QPSK	4.49	5.02
	Mid	16QAM	4.49	5.00
	Mid	64QAM	4.49	4.98
	High	QPSK	4.49	4.95
	High	16QAM	4.48	4.91
	High	64QAM	4.49	4.93
10	Mid	QPSK	8.93	9.56
	Mid	16QAM	8.92	9.61
	Mid	64QAM	8.92	9.78

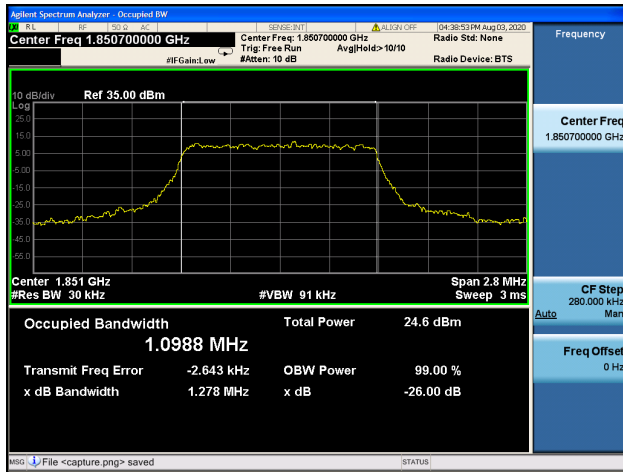
LTE Band 40(2350MHz ~ 2360MHz)				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.48	4.98
	Low	16QAM	4.49	4.91
	Low	64QAM	4.48	4.96
	Mid	QPSK	4.49	5.02
	Mid	16QAM	4.49	5.01
	Mid	64QAM	4.49	4.91
	High	QPSK	4.49	4.98
	High	16QAM	4.48	4.93
	High	64QAM	4.50	4.99
10	Mid	QPSK	8.93	9.68
	Mid	16QAM	8.93	9.71
	Mid	64QAM	8.92	9.82



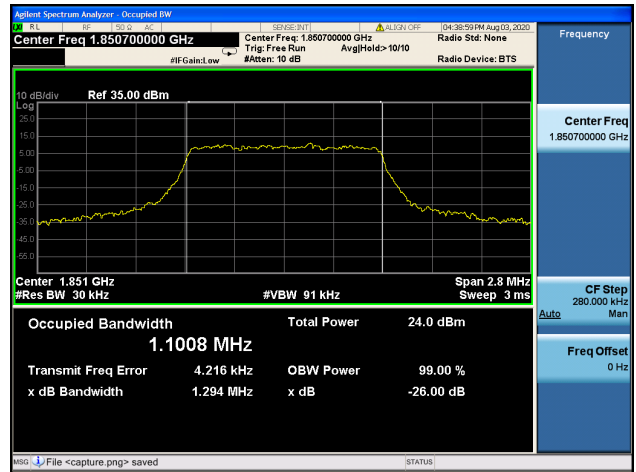
LTE Band41				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.50	5.02
	Low	16QAM	4.49	5.12
	Low	64QAM	4.49	5.10
	Mid	QPSK	4.50	5.08
	Mid	16QAM	4.50	4.98
	Mid	64QAM	4.50	4.99
	High	QPSK	4.52	5.67
	High	16QAM	4.52	5.39
	High	64QAM	4.53	5.39
10	Low	QPSK	8.93	9.55
	Low	16QAM	8.92	9.56
	Low	64QAM	8.92	9.54
	Mid	QPSK	8.93	9.58
	Mid	16QAM	8.94	9.57
	Mid	64QAM	8.92	9.51
	High	QPSK	8.92	9.60
	High	16QAM	8.94	9.57
	High	64QAM	8.92	9.51
15	Low	QPSK	13.34	14.17
	Low	16QAM	13.33	14.12
	Low	64QAM	13.38	14.12
	Mid	QPSK	13.41	14.07
	Mid	16QAM	13.37	14.06
	Mid	64QAM	13.36	14.20
	High	QPSK	13.36	14.13
	High	16QAM	13.35	14.13
	High	64QAM	13.35	14.12
20	Low	QPSK	17.81	18.74
	Low	16QAM	17.84	18.64
	Low	64QAM	17.84	18.78
	Mid	QPSK	17.82	18.81
	Mid	16QAM	17.84	18.78
	Mid	64QAM	17.82	18.59
	High	QPSK	17.79	18.59
	High	16QAM	17.84	18.72
	High	64QAM	17.84	18.78



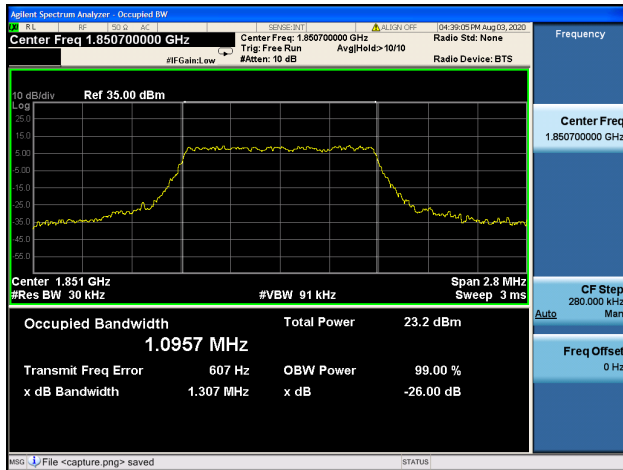
Band2 / 1.4MHz / Low CH / QPSK



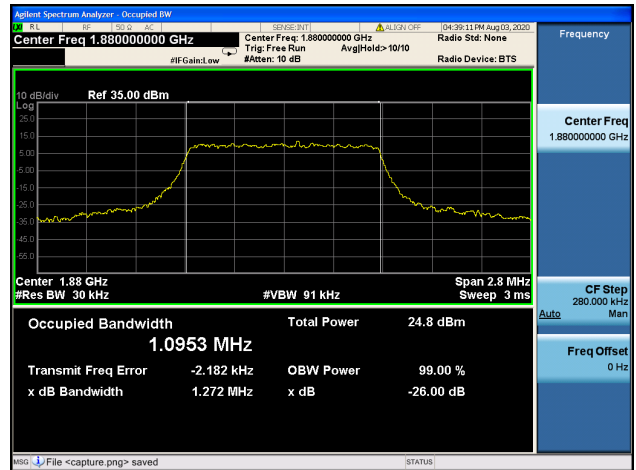
Band2 / 1.4MHz / Low CH / 16QAM



Band2 / 1.4MHz / Low CH / 64QAM



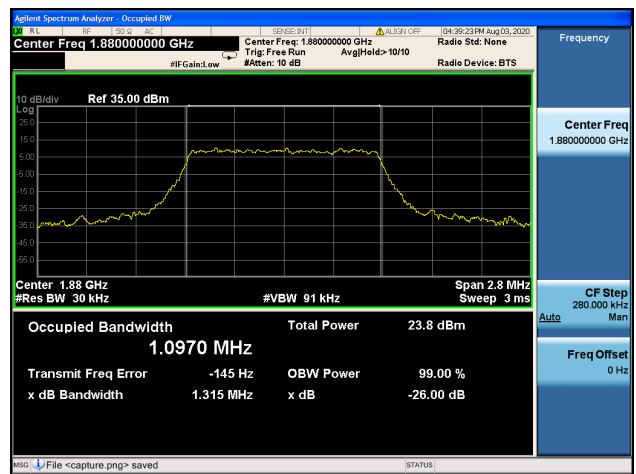
Band2 / 1.4MHz / Mid CH / QPSK



Band2 / 1.4MHz / Mid CH / 16QAM

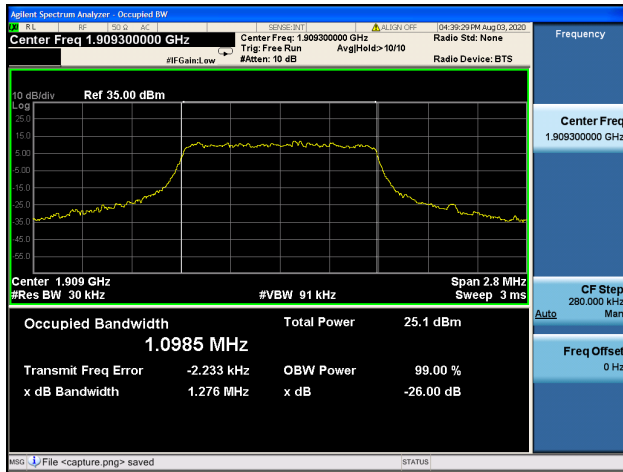


Band2 / 1.4MHz / Mid CH / 64QAM

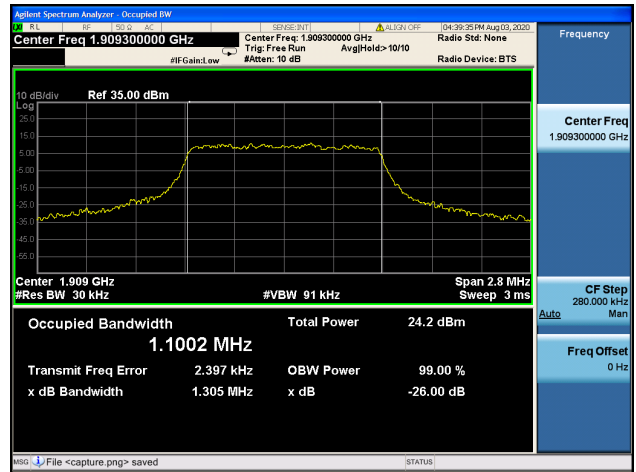




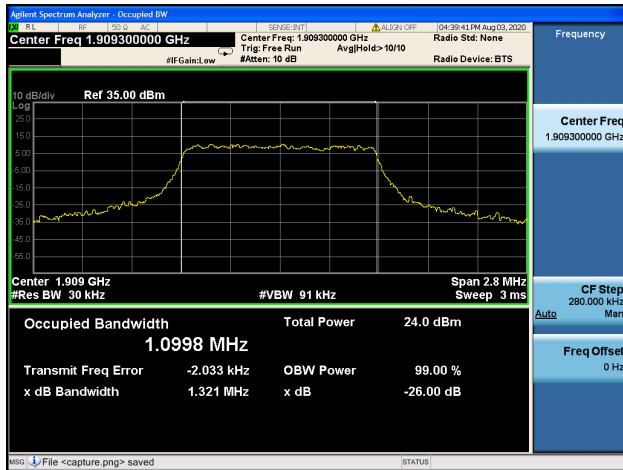
Band2 / 1.4MHz / High CH / QPSK



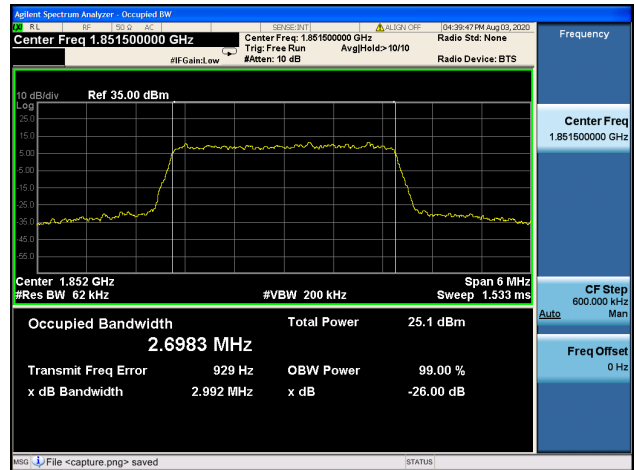
Band2 / 1.4MHz / High CH / 16QAM



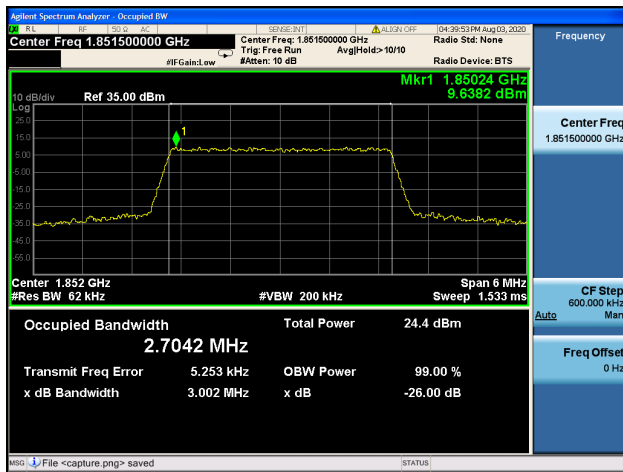
Band2 / 1.4MHz / High CH / 64QAM



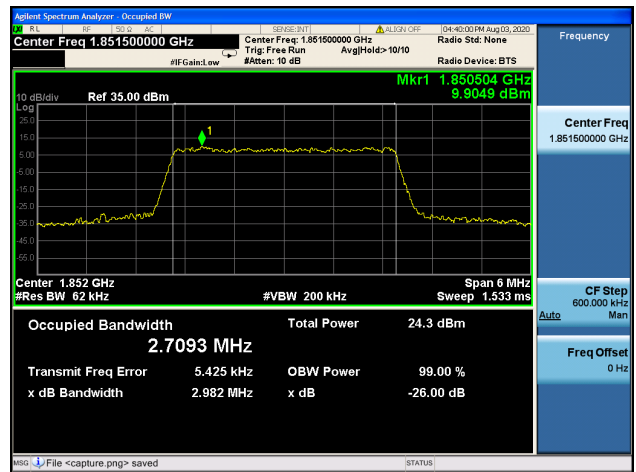
Band2 / 3MHz / Low CH / QPSK



Band2 / 3MHz / Low CH / 16QAM



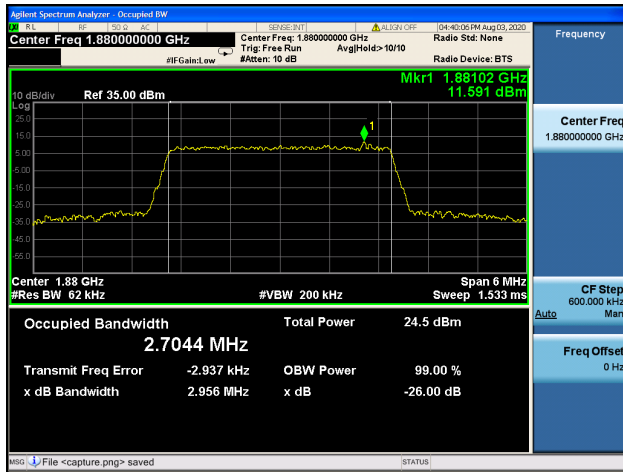
Band2 / 3MHz / Low CH / 64QAM



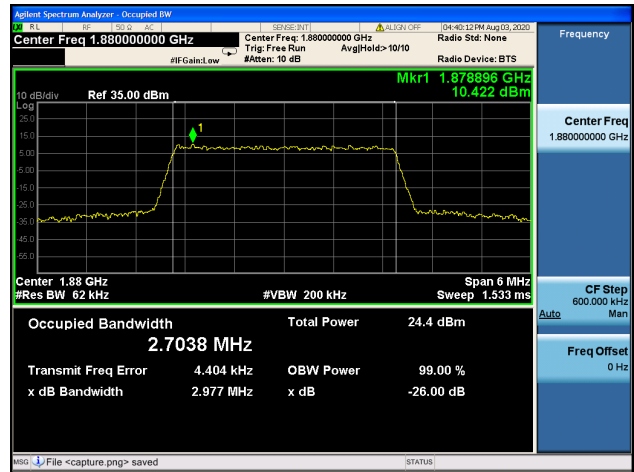




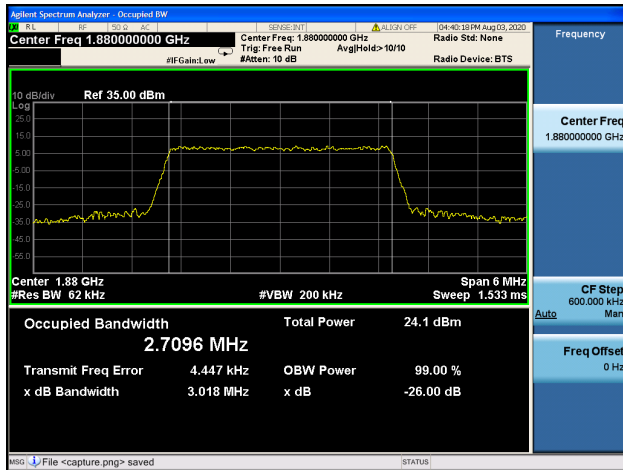
Band2 / 3MHz / Mid CH /  
QPSK



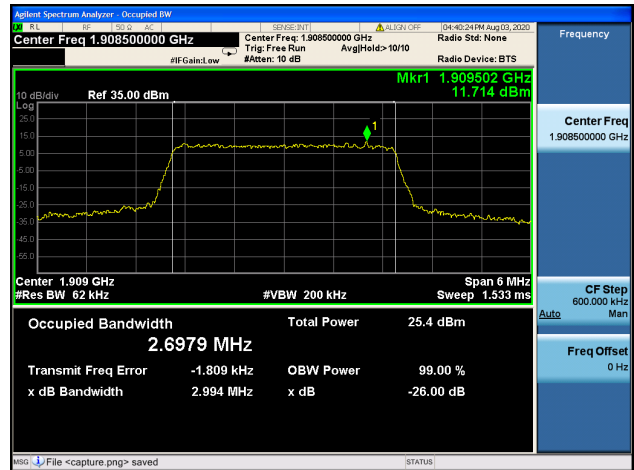
Band2 / 3MHz / Mid CH /  
16QAM



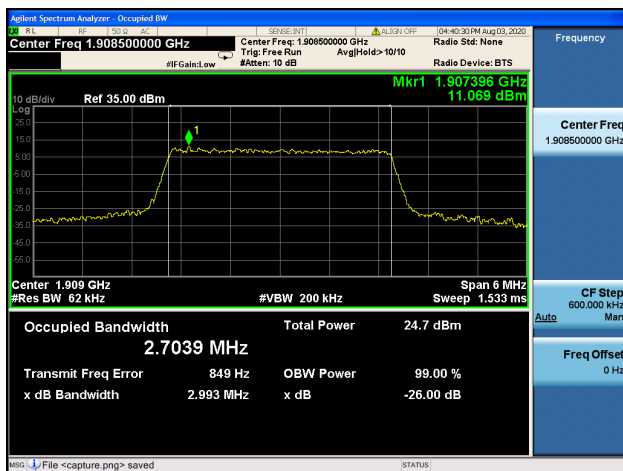
Band2 / 3MHz / Mid CH /  
64QAM



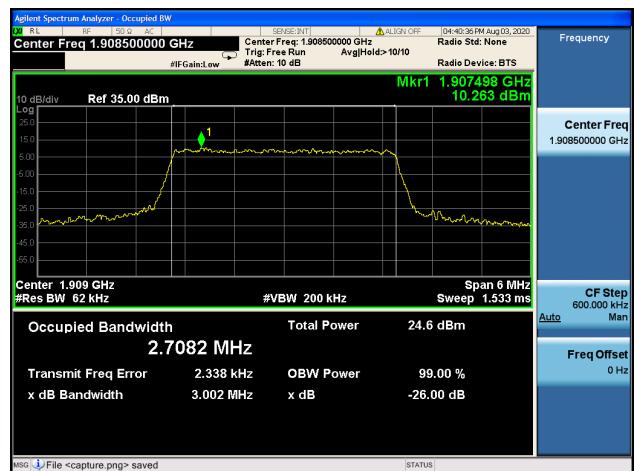
Band2 / 3MHz / High CH /  
QPSK



Band2 / 3MHz / High CH /  
16QAM

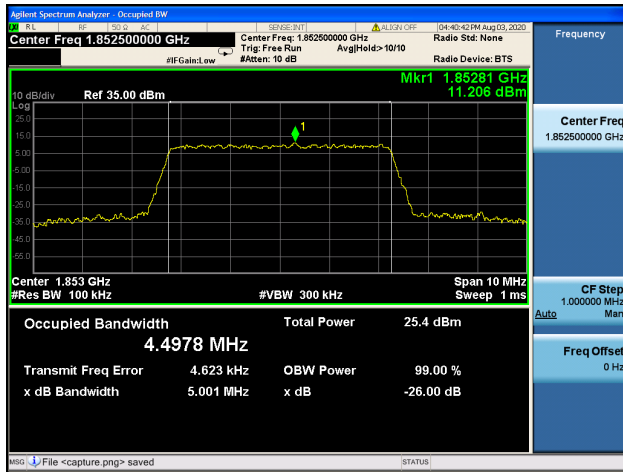


Band2 / 3MHz / High CH /  
64QAM

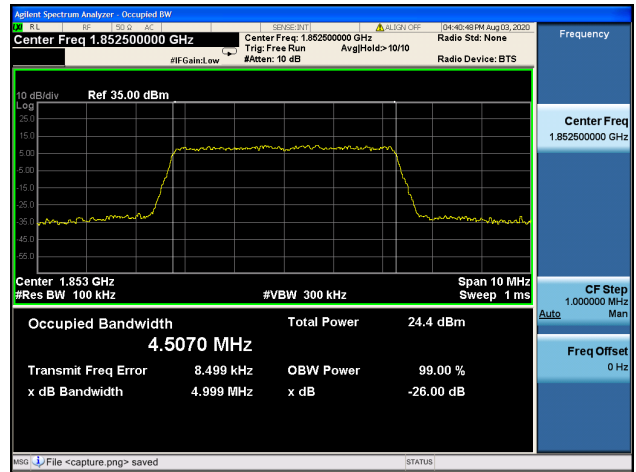




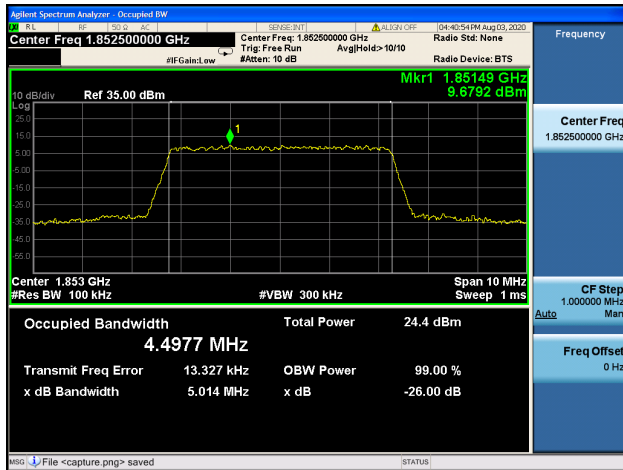
Band2 / 5MHz / Low CH /  
QPSK



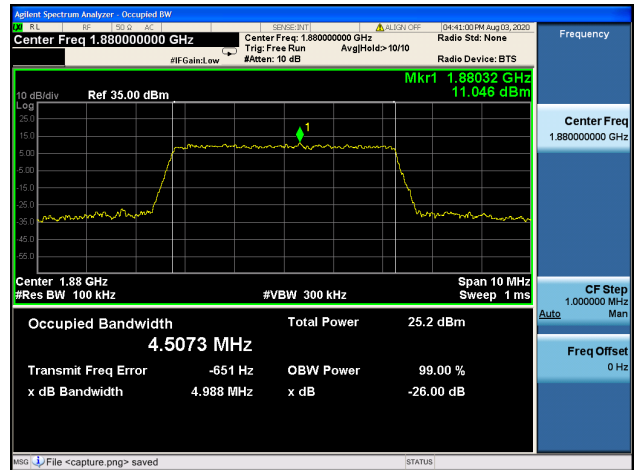
Band2 / 5MHz / Low CH /  
16QAM



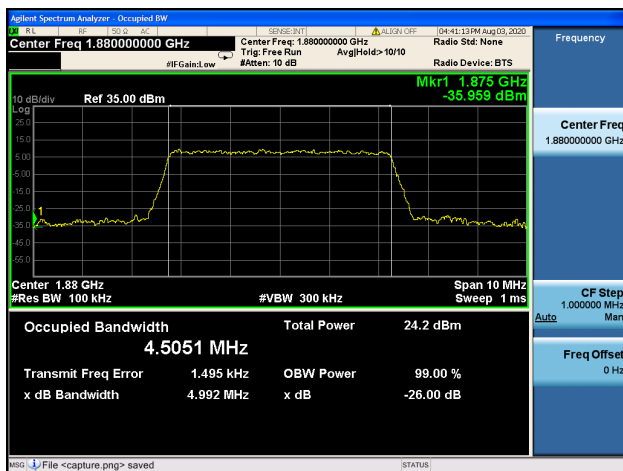
Band2 / 5MHz / Low CH /  
64QAM



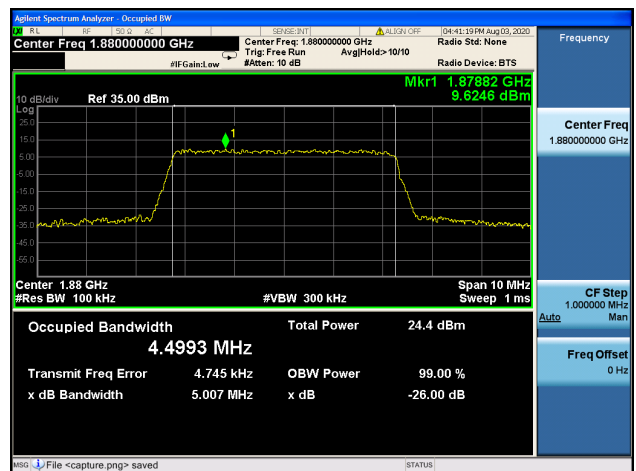
Band2 / 5MHz / Mid CH /  
QPSK



Band2 / 5MHz / Mid CH /  
16QAM

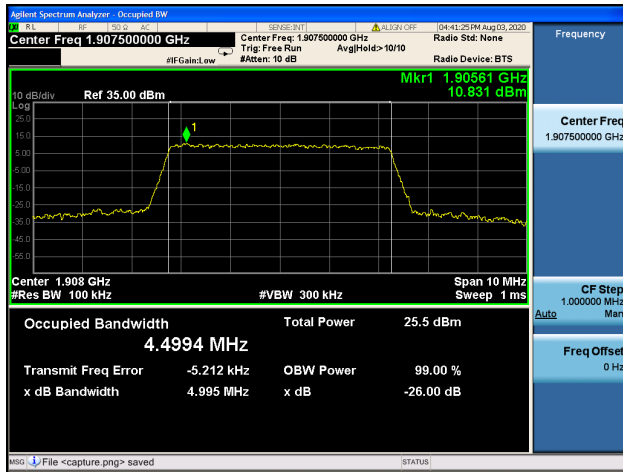


Band2 / 5MHz / Mid CH /  
64QAM

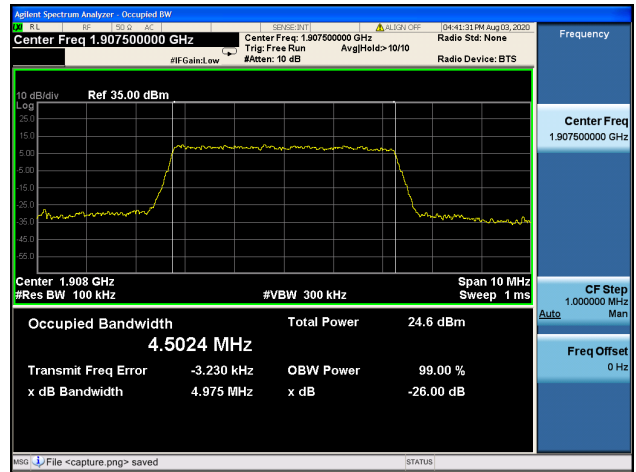




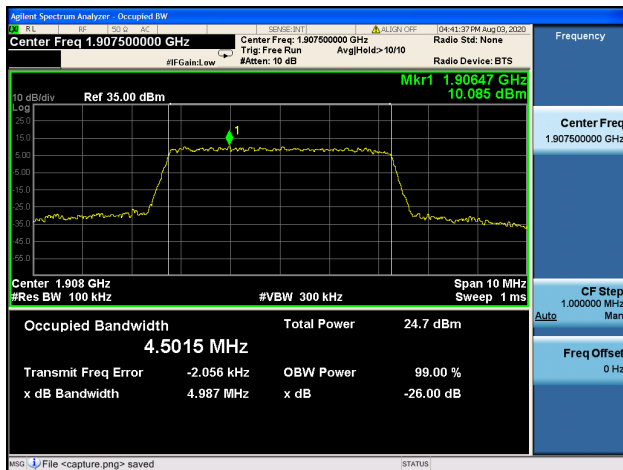
Band2 / 5MHz / High CH /  
QPSK



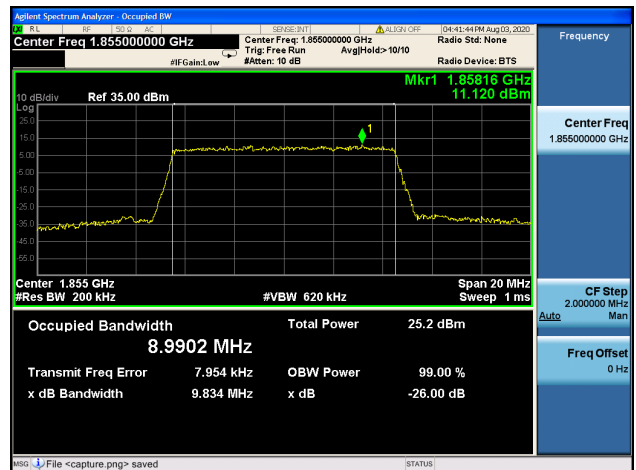
Band2 / 5MHz / High CH /  
16QAM



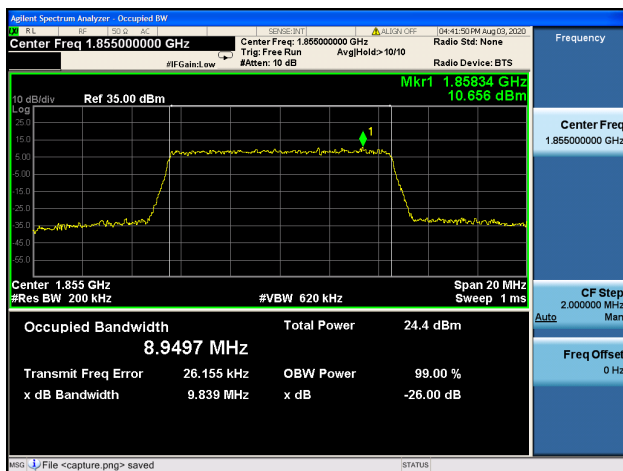
Band2 / 5MHz / High CH /  
64QAM



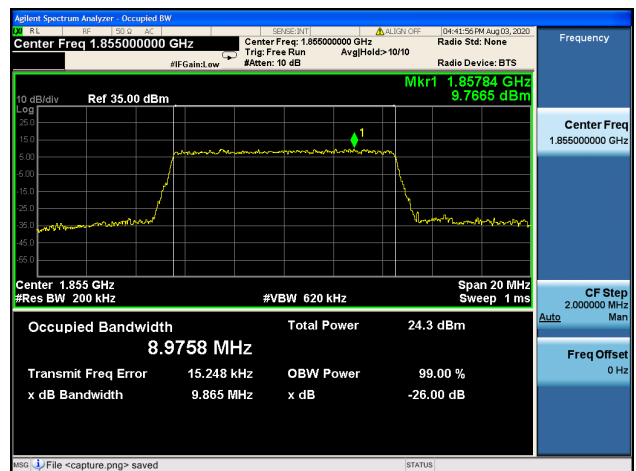
Band2 / 10MHz / Low CH /  
QPSK



Band2 / 10MHz / Low CH /  
16QAM

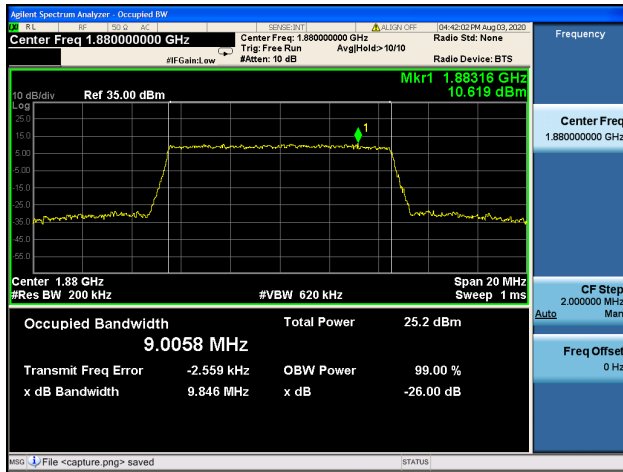


Band2 / 10MHz / Low CH /  
64QAM

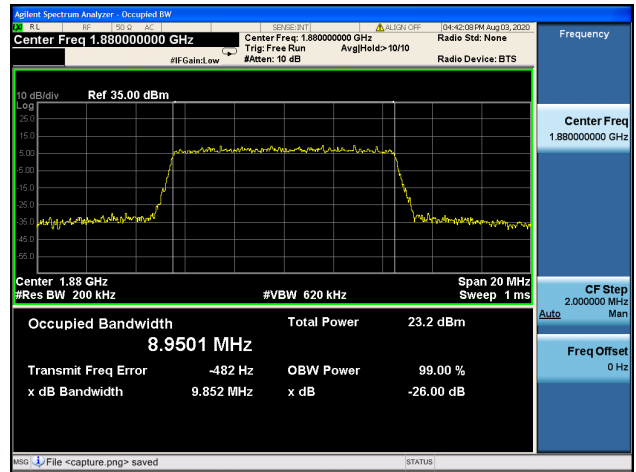




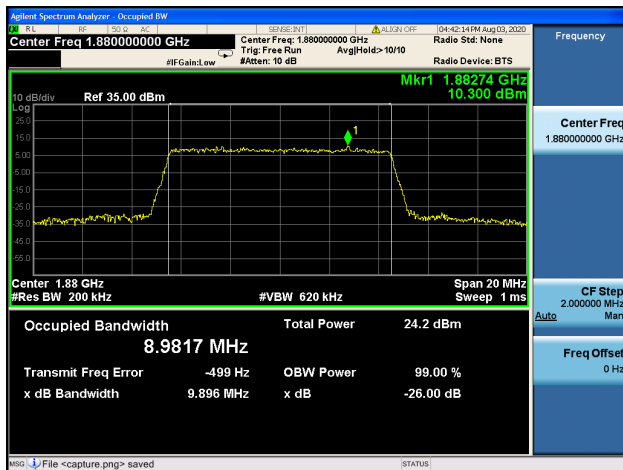
Band2 / 10MHz / Mid CH / QPSK



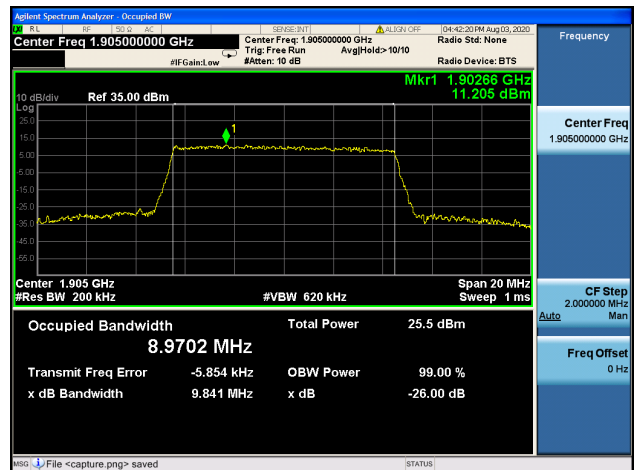
Band2 / 10MHz / Mid CH / 16QAM



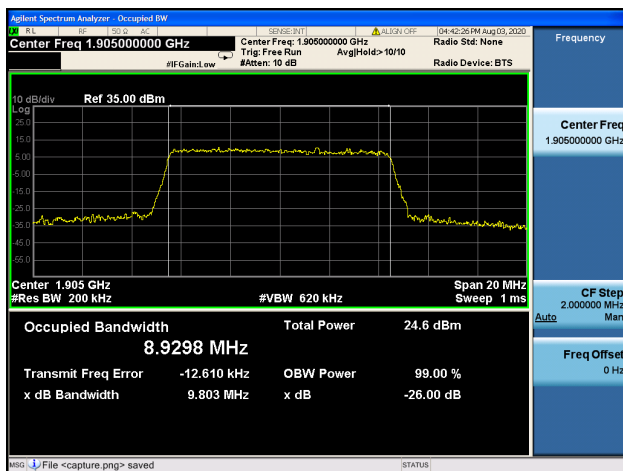
Band2 / 10MHz / Mid CH / 64QAM



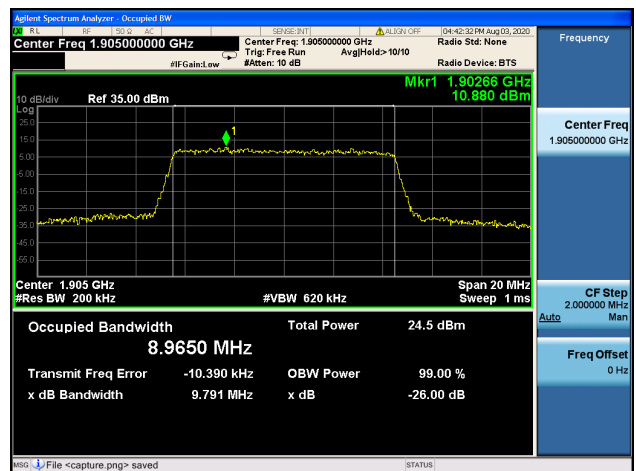
Band2 / 10MHz / High CH / QPSK



Band2 / 10MHz / High CH / 16QAM

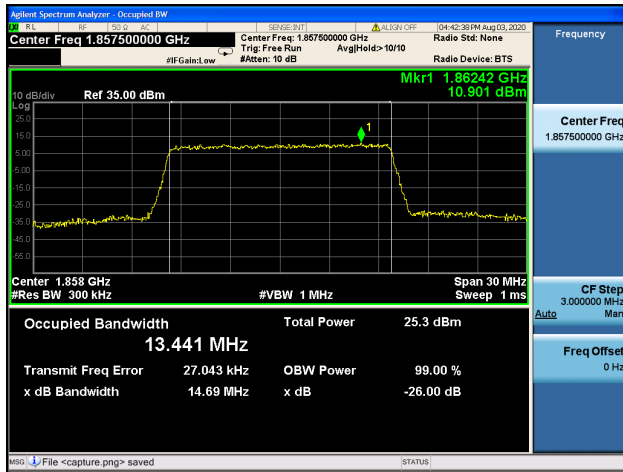


Band2 / 10MHz / High CH / 64QAM

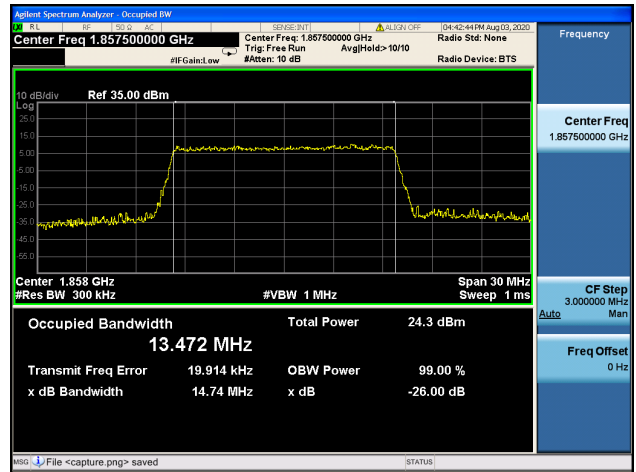




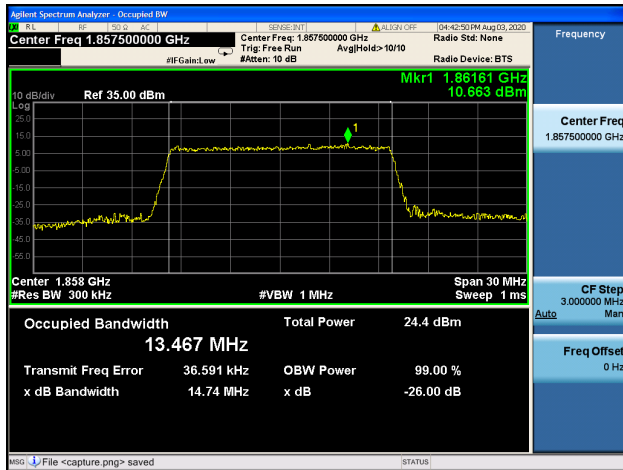
Band2 / 15MHz / Low CH / QPSK



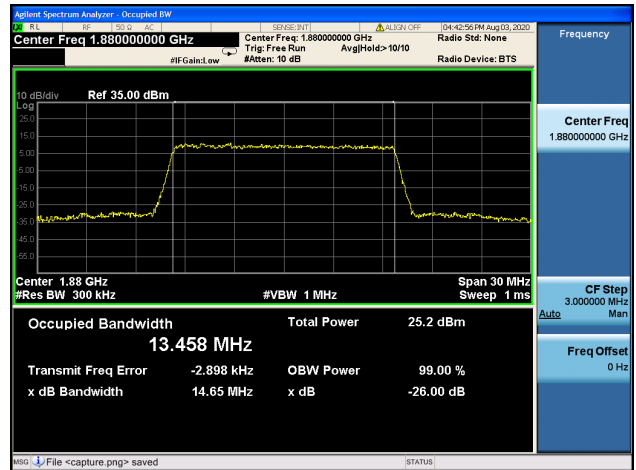
Band2 / 15MHz / Low CH / 16QAM



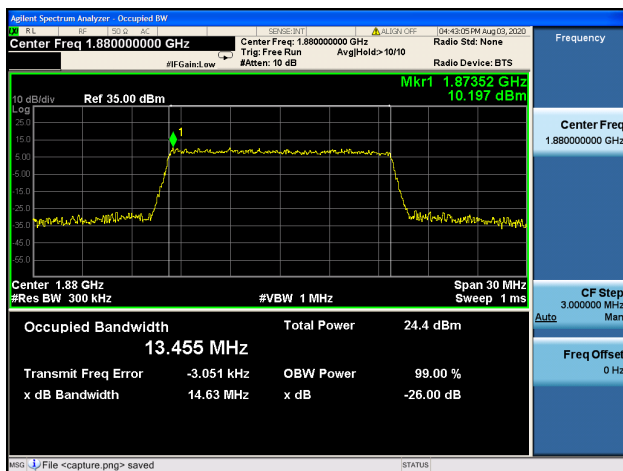
Band2 / 15MHz / Low CH / 64QAM



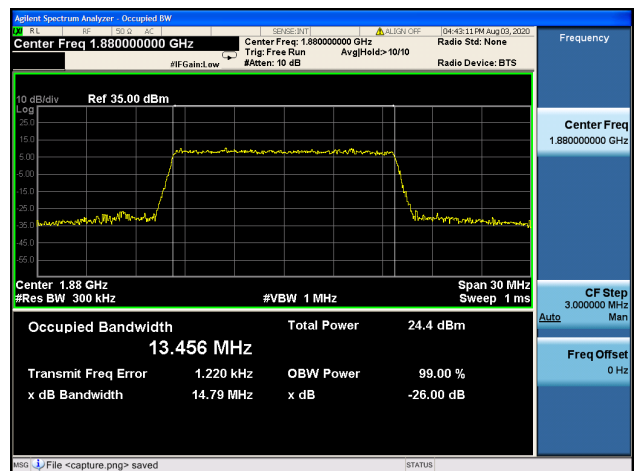
Band2 / 15MHz / Mid CH / QPSK



Band2 / 15MHz / Mid CH / 16QAM

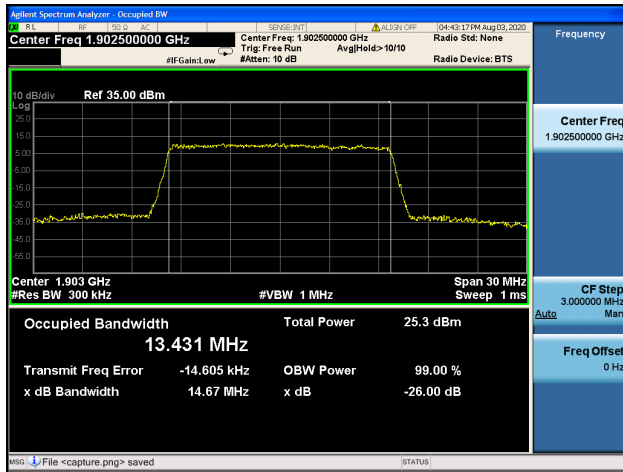


Band2 / 15MHz / Mid CH / 64QAM

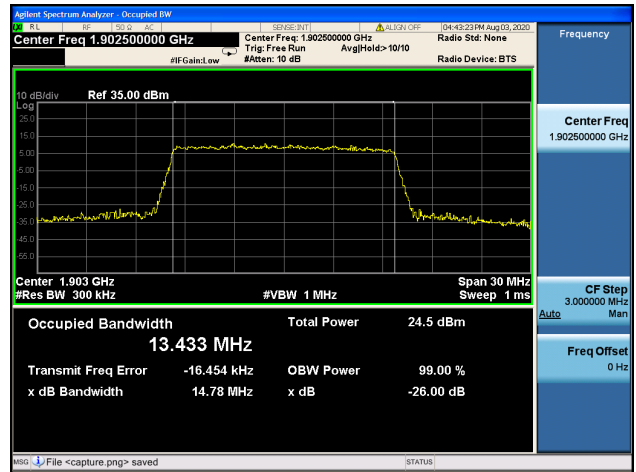




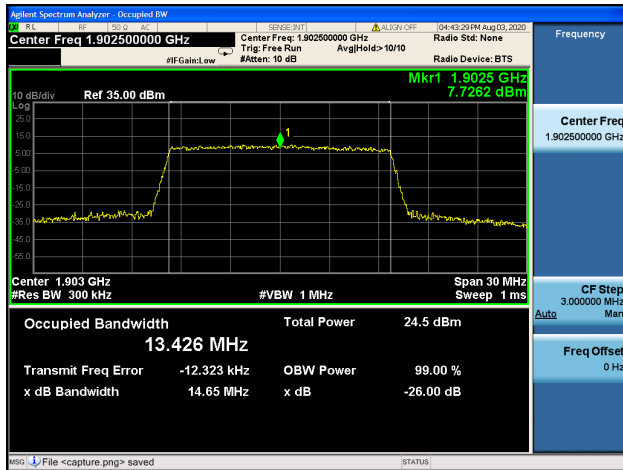
Band2 / 15MHz / High CH / QPSK



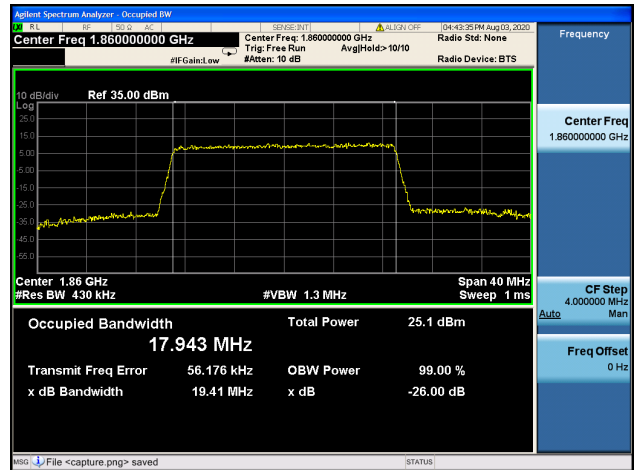
Band2 / 15MHz / High CH / 16QAM



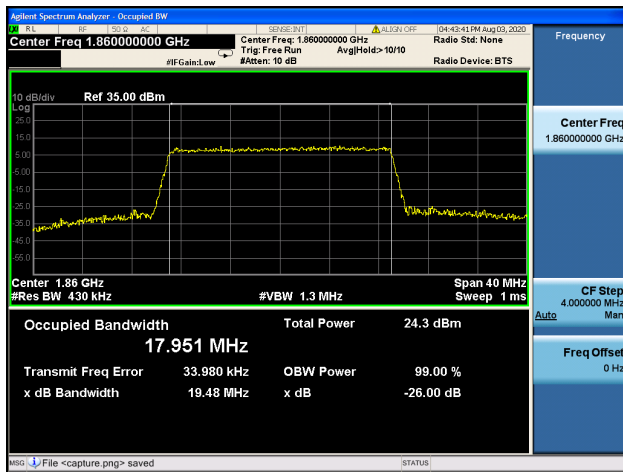
Band2 / 15MHz / High CH / 64QAM



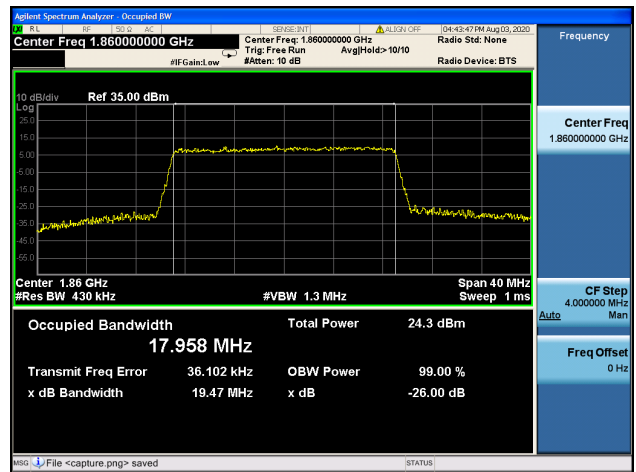
Band2 / 20MHz / Low CH / QPSK



Band2 / 20MHz / Low CH / 16QAM

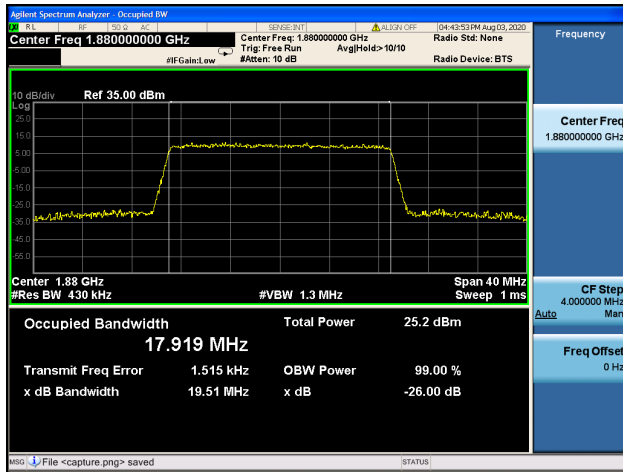


Band2 / 20MHz / Low CH / 64QAM

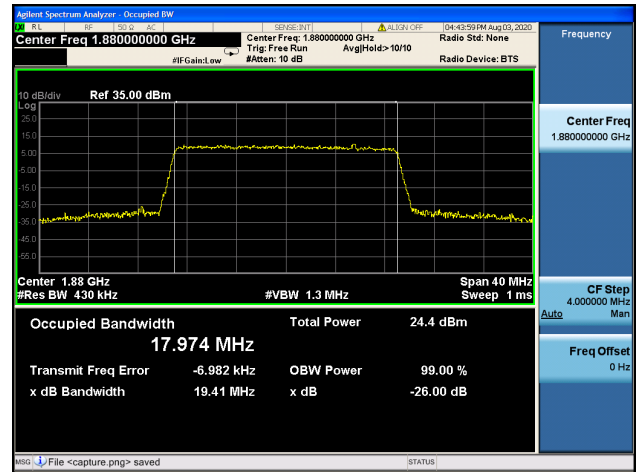




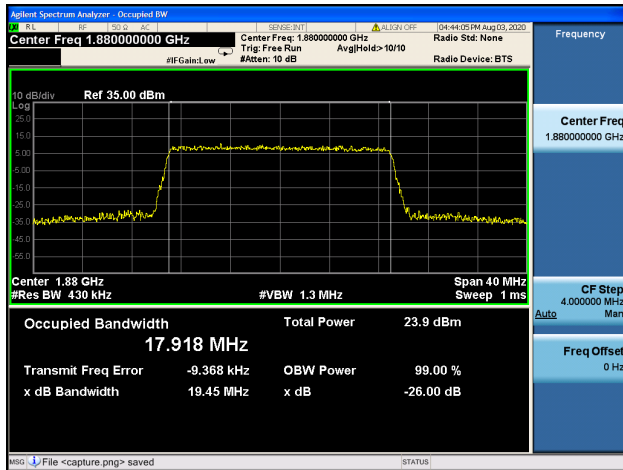
Band2 / 20MHz / Mid CH / QPSK



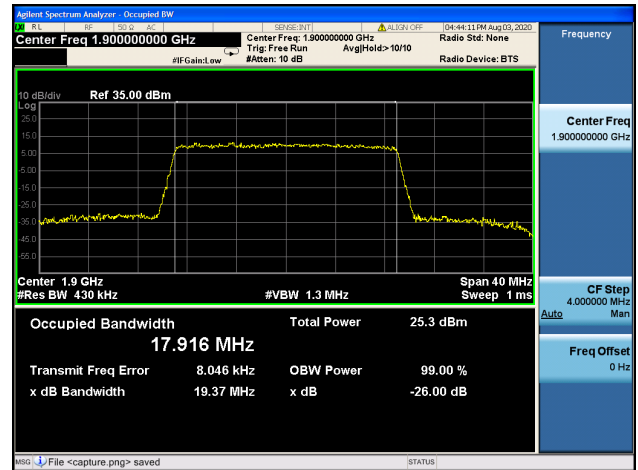
Band2 / 20MHz / Mid CH / 16QAM



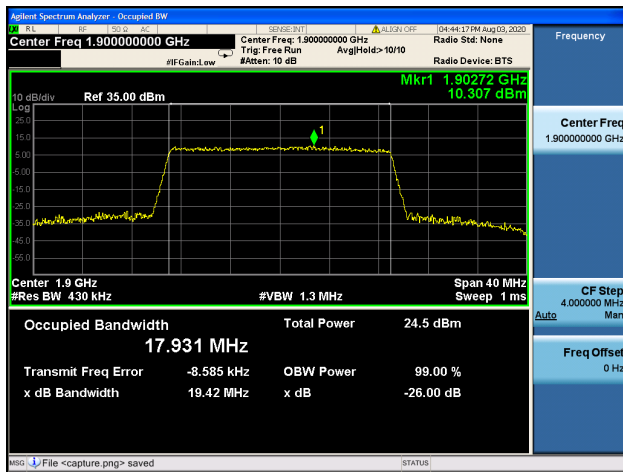
Band2 / 20MHz / Mid CH / 64QAM



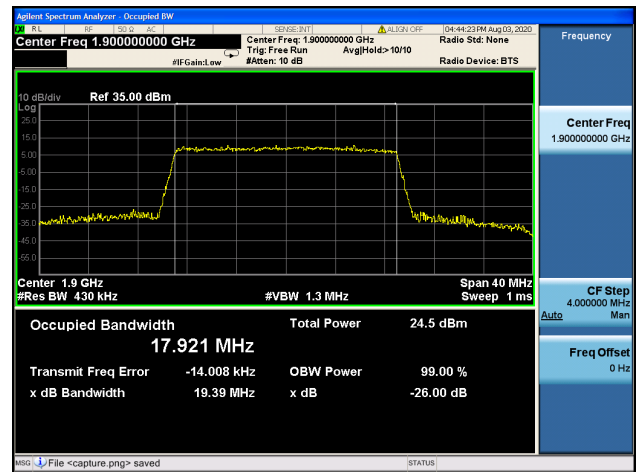
Band2 / 20MHz / High CH / QPSK



Band2 / 20MHz / High CH / 16QAM

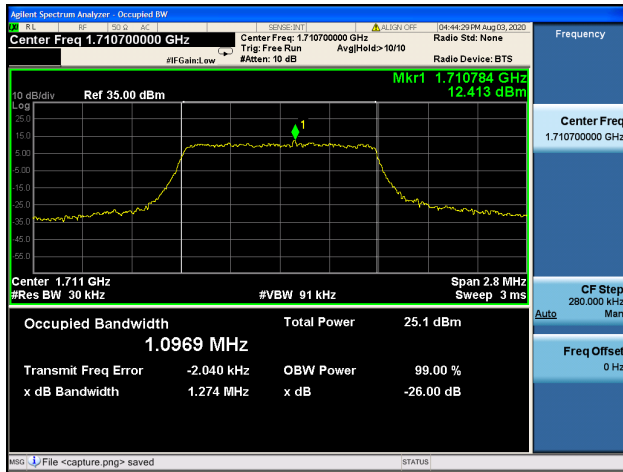


Band2 / 20MHz / High CH / 64QAM

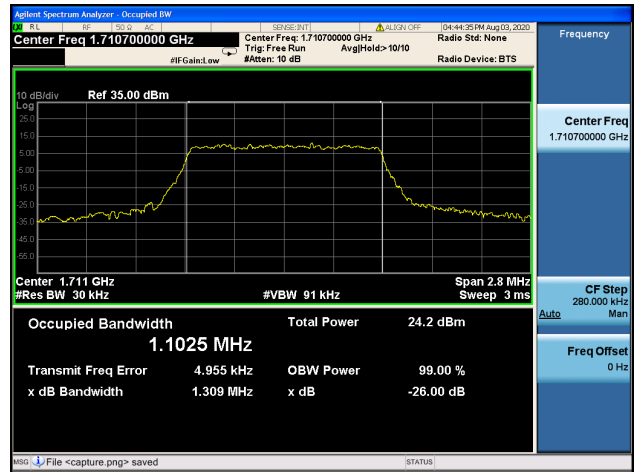




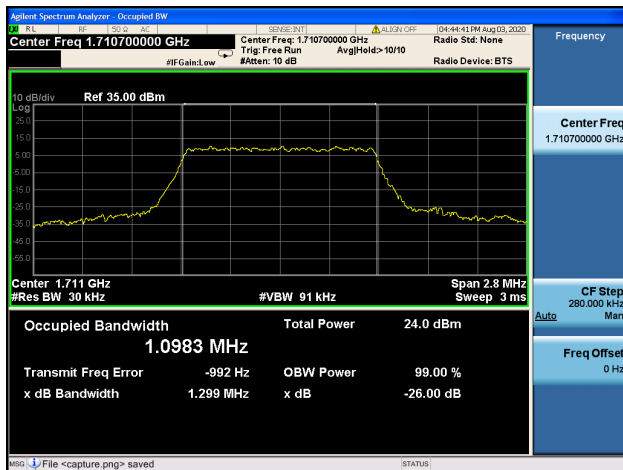
Band4 / 1.4MHz / Low CH / QPSK



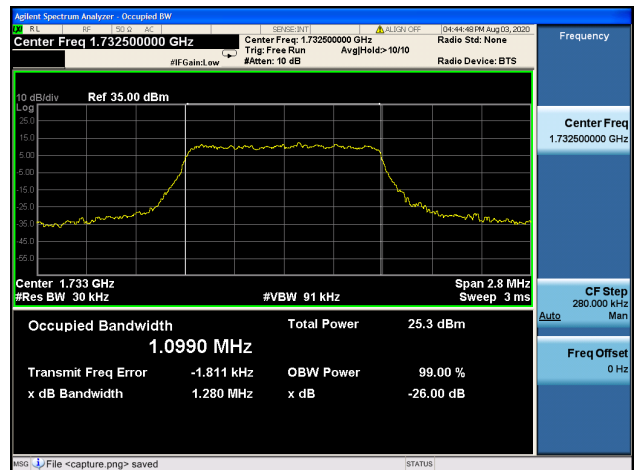
Band4 / 1.4MHz / Low CH / 16QAM



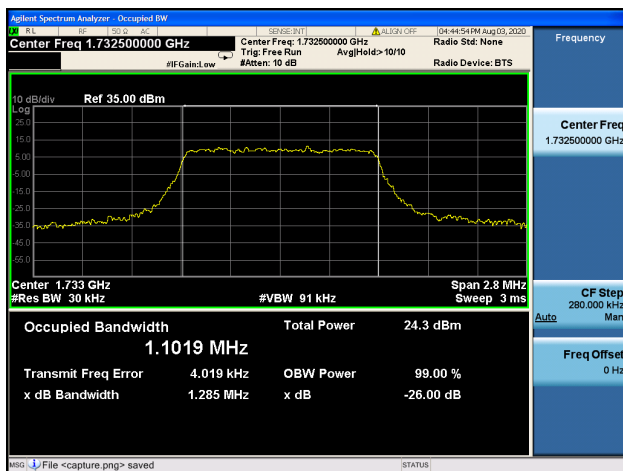
Band4 / 1.4MHz / Low CH / 64QAM



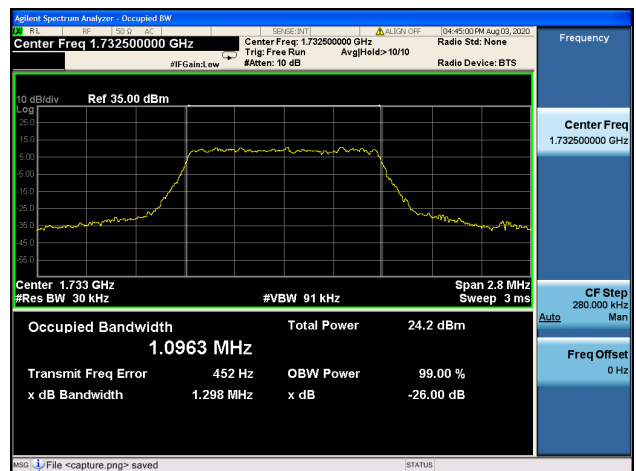
Band4 / 1.4MHz / Mid CH / QPSK



Band4 / 1.4MHz / Mid CH / 16QAM



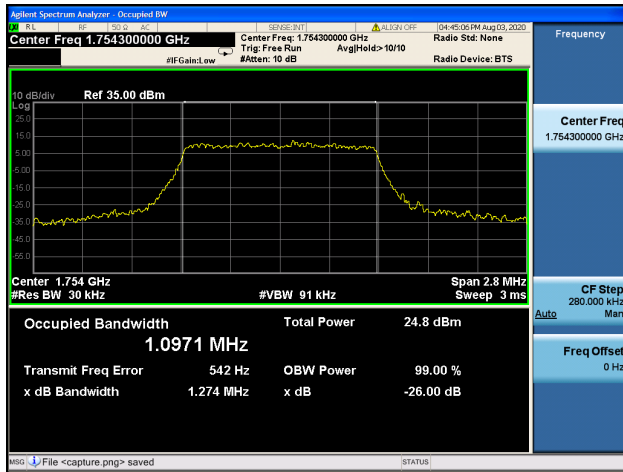
Band4 / 1.4MHz / Mid CH / 64QAM



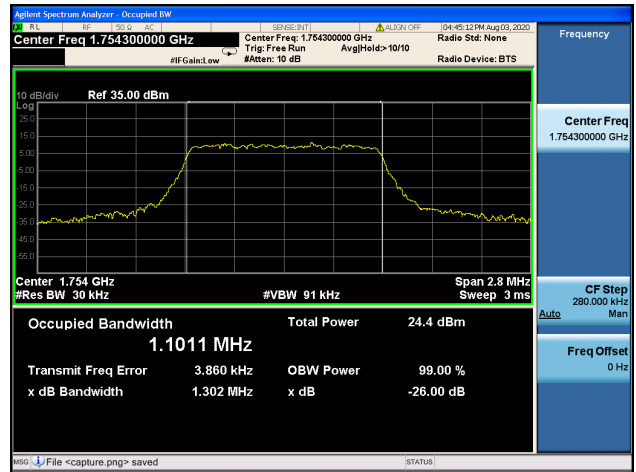




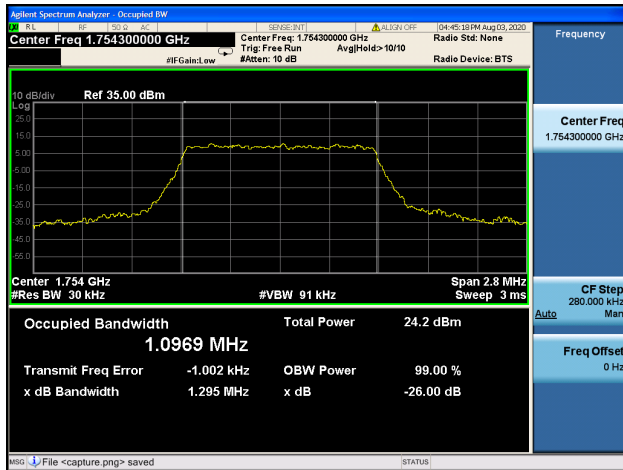
Band4 / 1.4MHz / High CH / QPSK



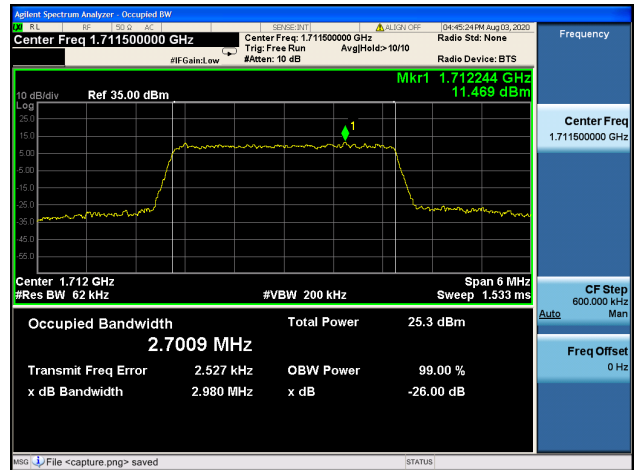
Band4 / 1.4MHz / High CH / 16QAM



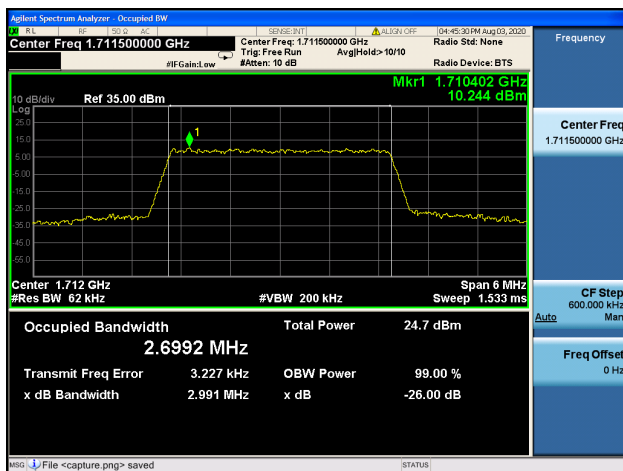
Band4 / 1.4MHz / High CH / 64QAM



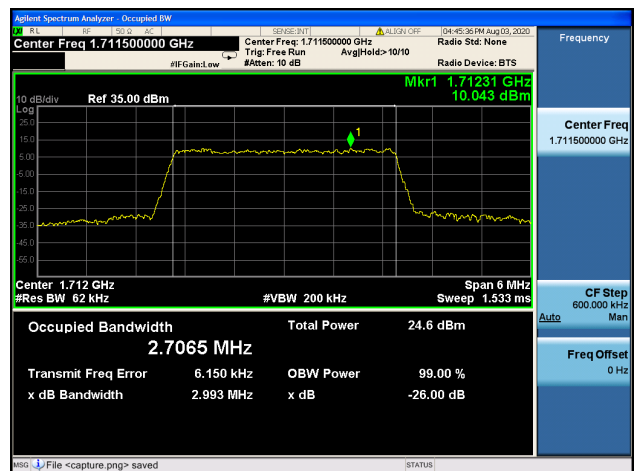
Band4 / 3MHz / Low CH / QPSK



Band4 / 3MHz / Low CH / 16QAM

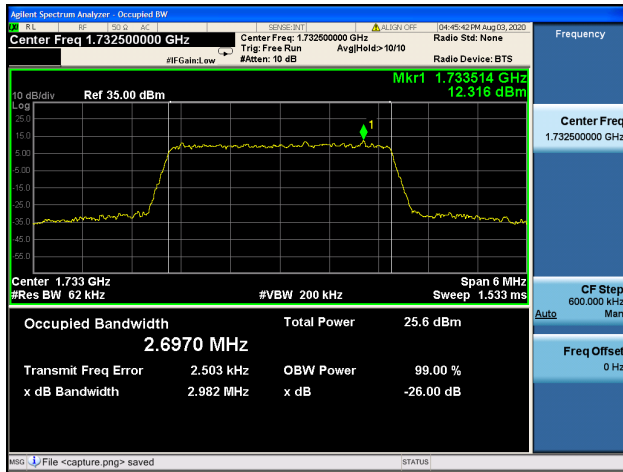


Band4 / 3MHz / Low CH / 64QAM

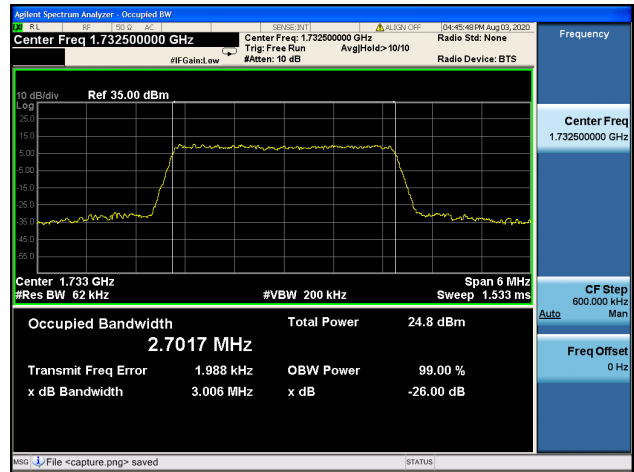




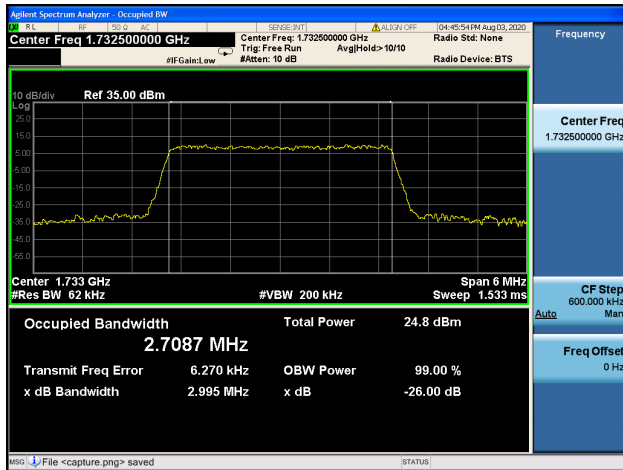
Band4 / 3MHz / Mid CH /  
QPSK



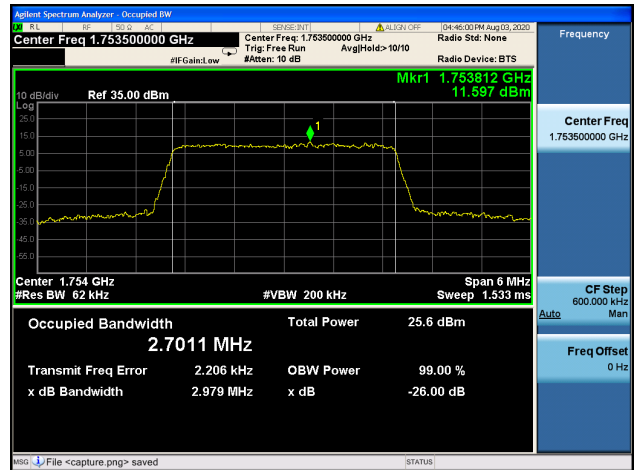
Band4 / 3MHz / Mid CH /  
16QAM



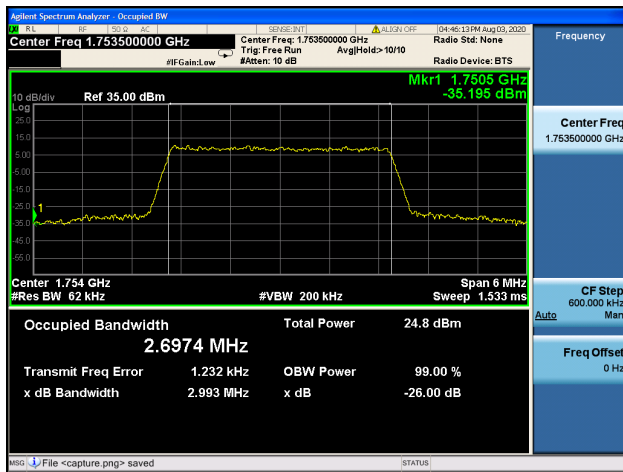
Band4 / 3MHz / Mid CH /  
64QAM



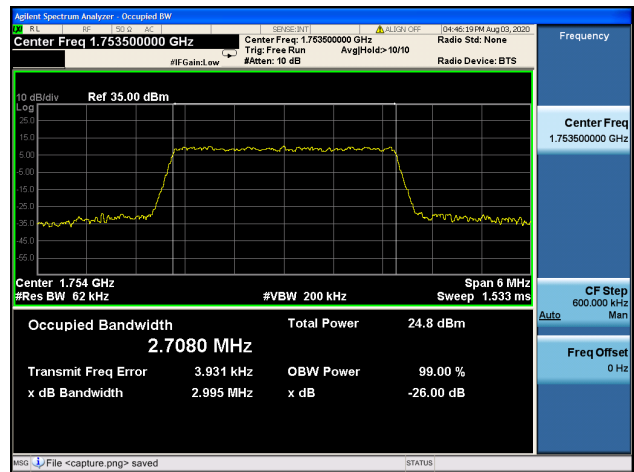
Band4 / 3MHz / High CH /  
QPSK



Band4 / 3MHz / High CH /  
16QAM

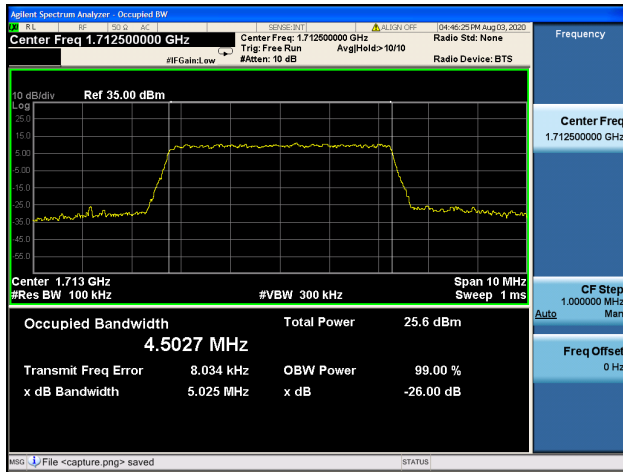


Band4 / 3MHz / High CH /  
64QAM

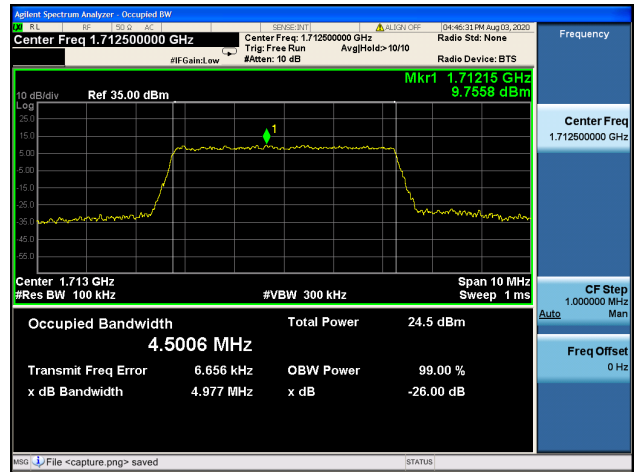




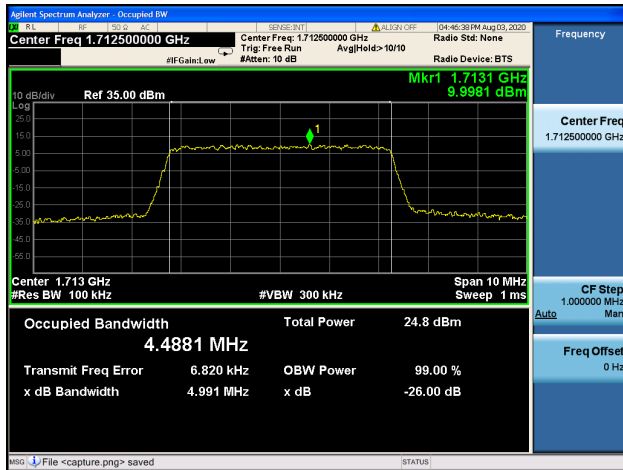
Band4 / 5MHz / Low CH /  
QPSK



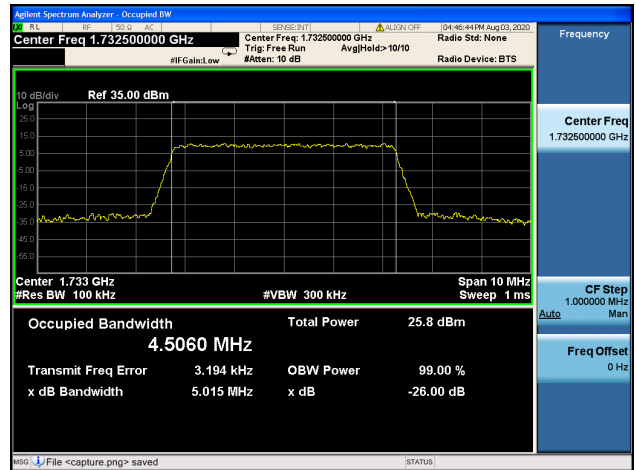
Band4 / 5MHz / Low CH /  
16QAM



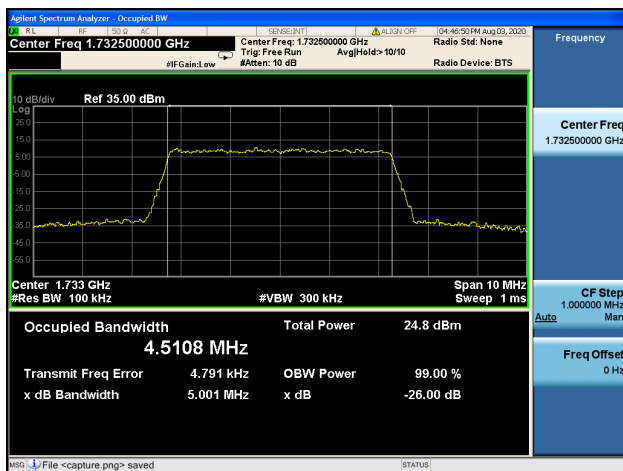
Band4 / 5MHz / Low CH /  
64QAM



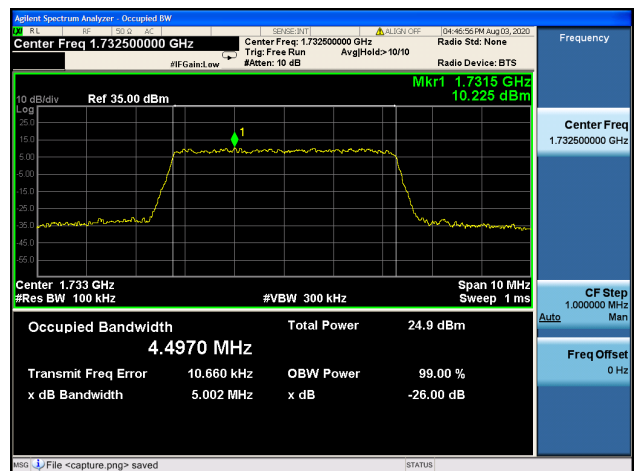
Band4 / 5MHz / Mid CH /  
QPSK



Band4 / 5MHz / Mid CH /  
16QAM

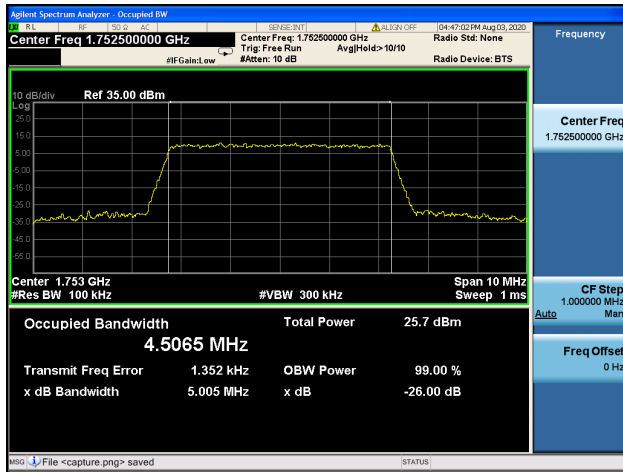


Band4 / 5MHz / Mid CH /  
64QAM

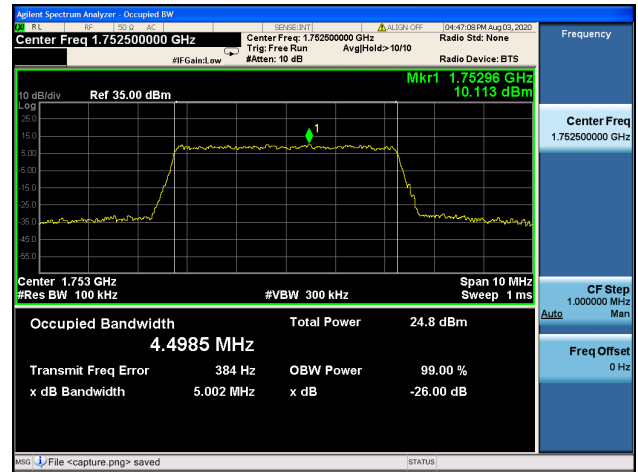




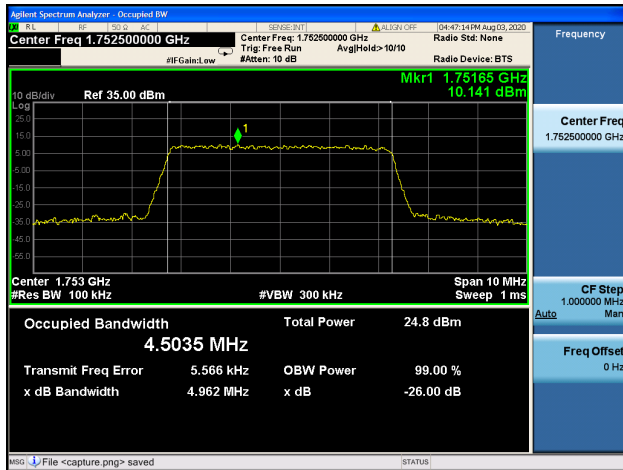
Band4 / 5MHz / High CH /  
QPSK



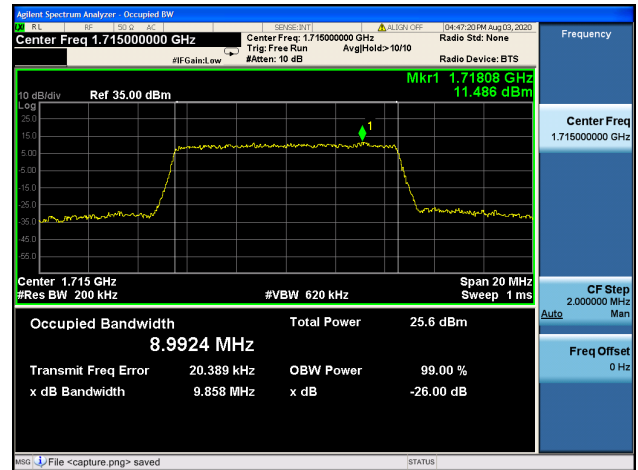
Band4 / 5MHz / High CH /  
16QAM



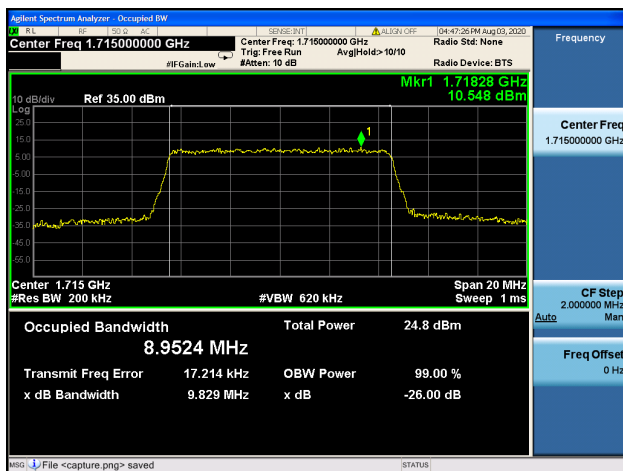
Band4 / 5MHz / High CH /  
64QAM



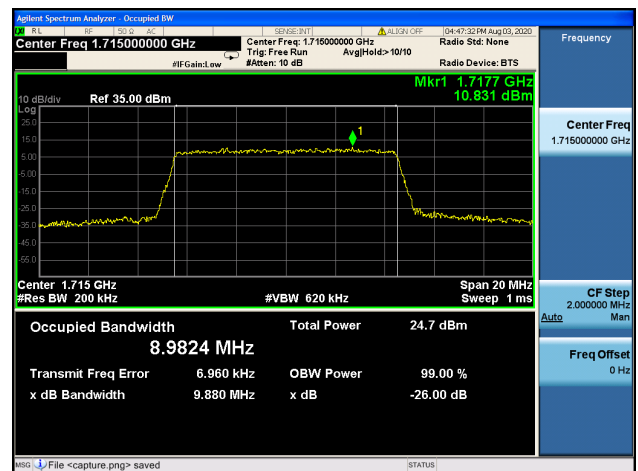
Band4 / 10MHz / Low CH /  
QPSK



Band4 / 10MHz / Low CH /  
16QAM

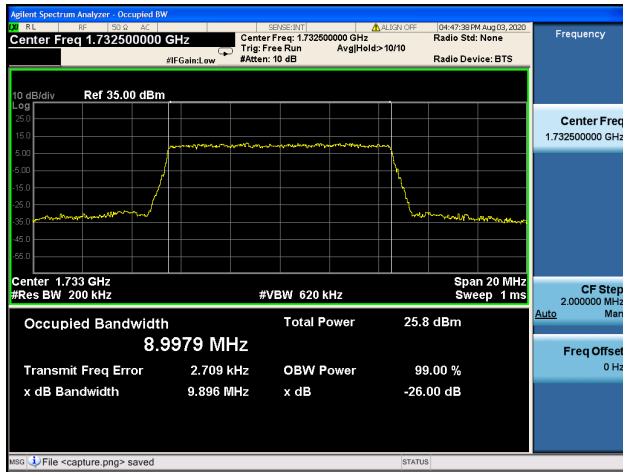


Band4 / 10MHz / Low CH /  
64QAM

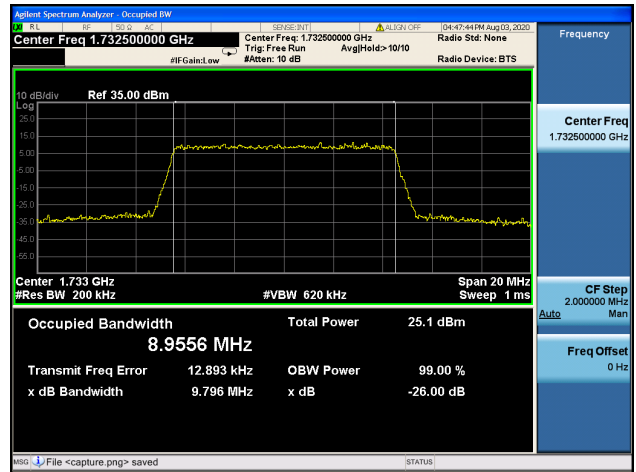




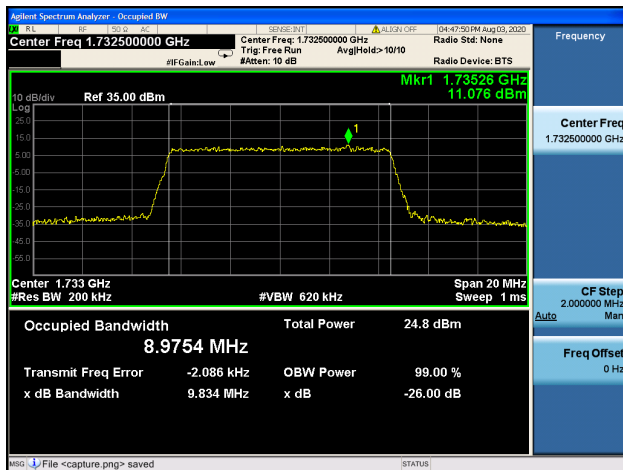
Band4 / 10MHz / Mid CH / QPSK



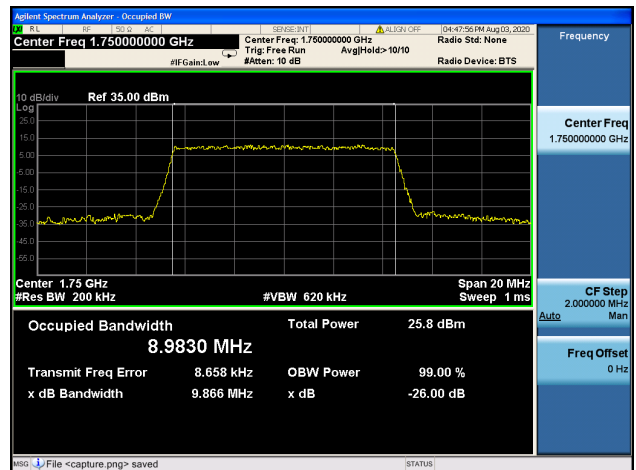
Band4 / 10MHz / Mid CH / 16QAM



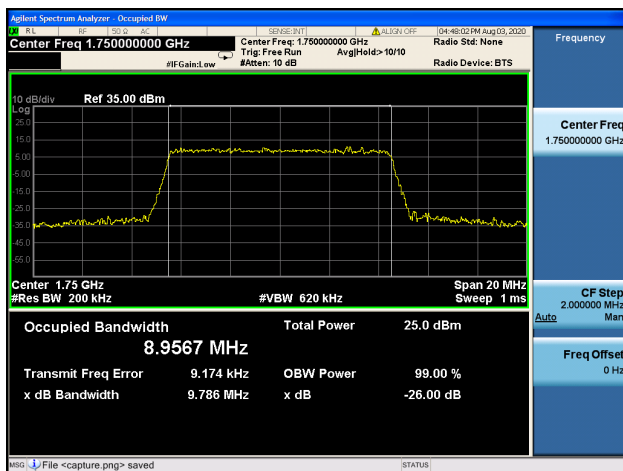
Band4 / 10MHz / Mid CH / 64QAM



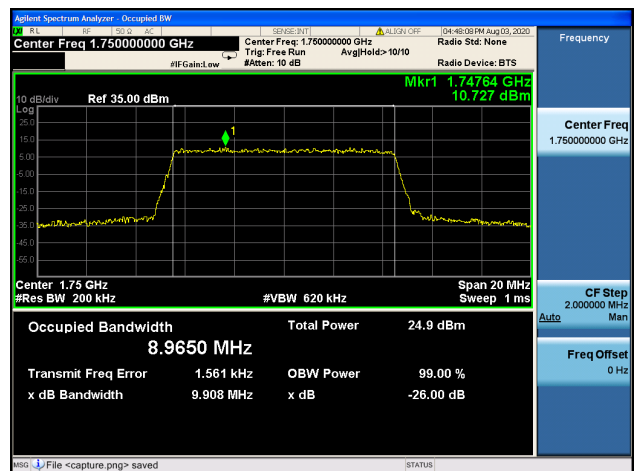
Band4 / 10MHz / High CH / QPSK



Band4 / 10MHz / High CH / 16QAM

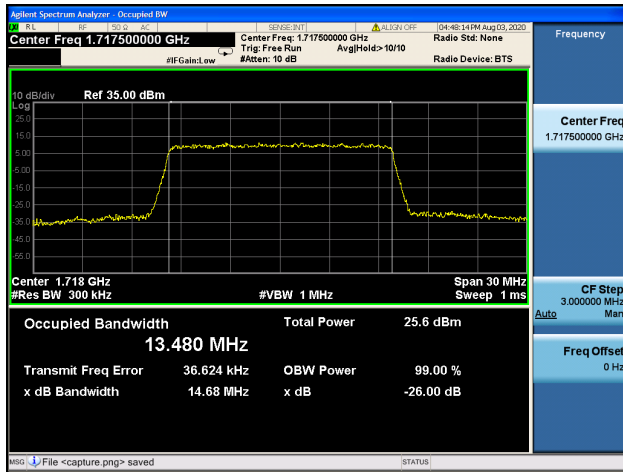


Band4 / 10MHz / High CH / 64QAM

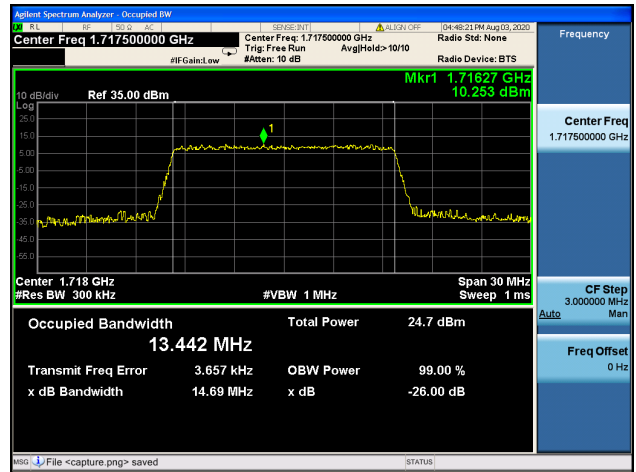




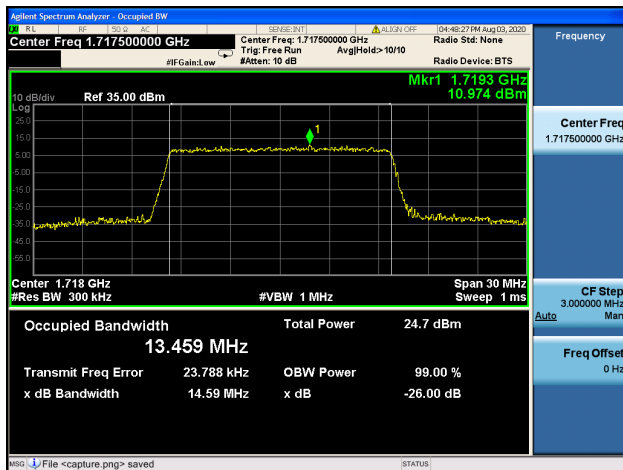
Band4 / 15MHz / Low CH / QPSK



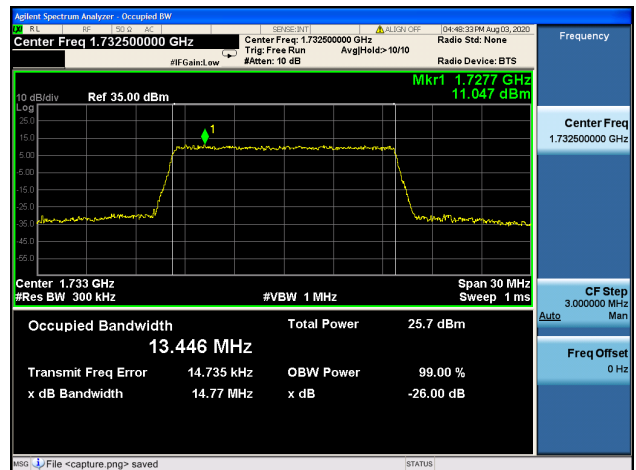
Band4 / 15MHz / Low CH / 16QAM



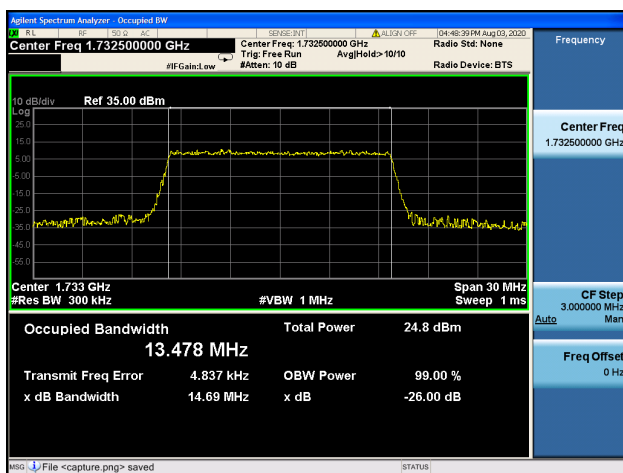
Band4 / 15MHz / Low CH / 64QAM



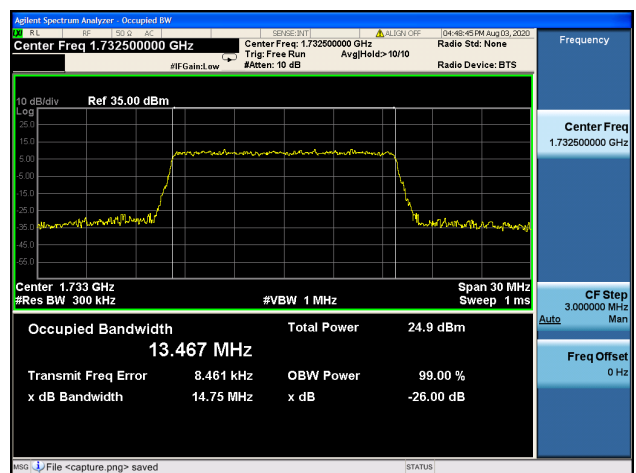
Band4 / 15MHz / Mid CH / QPSK



Band4 / 15MHz / Mid CH / 16QAM

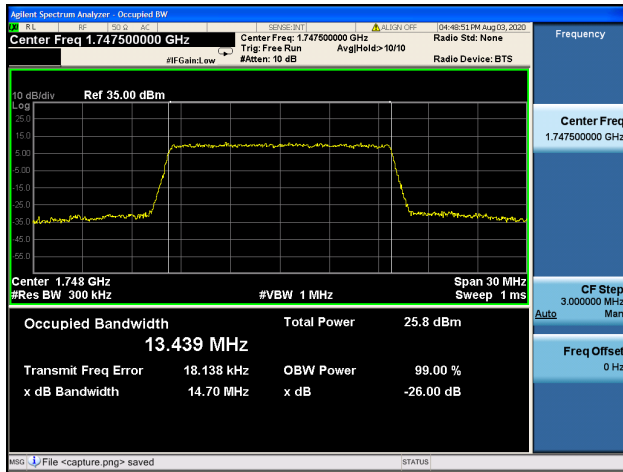


Band4 / 15MHz / Mid CH / 64QAM

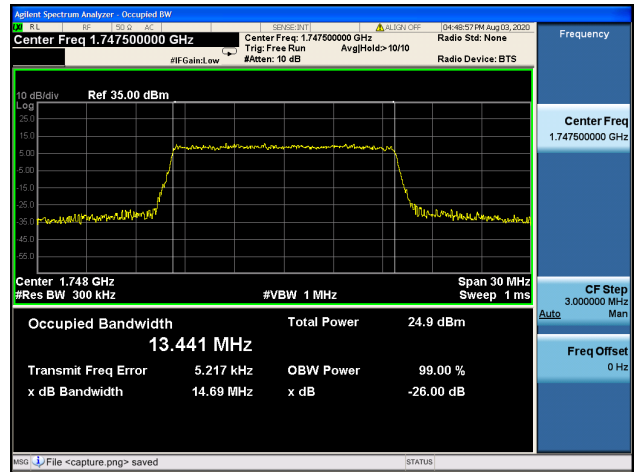




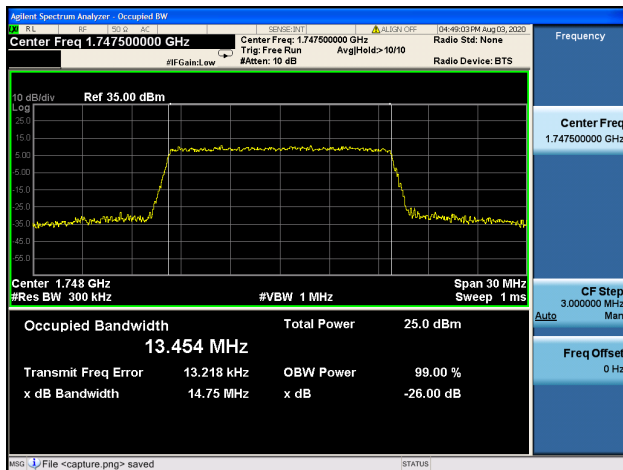
Band4 / 15MHz / High CH / QPSK



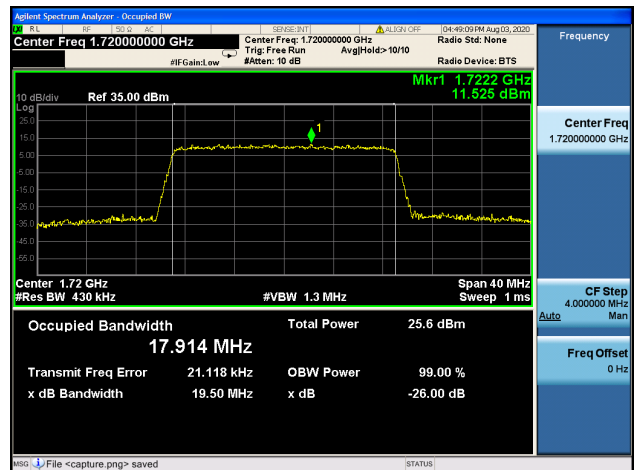
Band4 / 15MHz / High CH / 16QAM



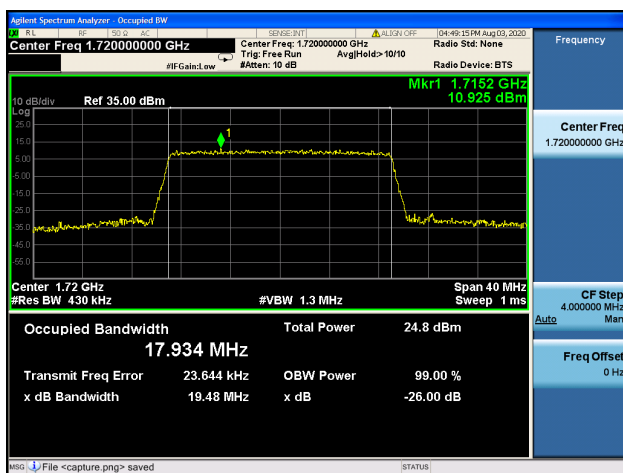
Band4 / 15MHz / High CH / 64QAM



Band4 / 20MHz / Low CH / QPSK



Band4 / 20MHz / Low CH / 16QAM



Band4 / 20MHz / Low CH / 64QAM

