



# TEST REPORT

**APPLICANT** : BLU Products, Inc.

**PRODUCT NAME** : Smart Phone

**MODEL NAME** : M6

**BRAND NAME** : BOLD

**FCC ID** : YHLBOLDM6

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

**RECEIPT DATE** : 2020-01-15

**TEST DATE** : 2020-02-21 to 2020-03-26

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<b>Change History</b>		
<b>Version</b>	<b>Date</b>	<b>Reason for change</b>
1.0	2020-03-30	First edition



# 1. Technical Information

Note: Provide by applicant.

## 1.1. Applicant and Manufacturer Information

<b>Applicant:</b>	BLU Products, Inc.
<b>Applicant Address:</b>	10814 NW 33rd St # 100 Doral, FL 33172,USA
<b>Manufacturer:</b>	BLU Products, Inc.
<b>ManufacturerAddress:</b>	10814 NW 33rd St # 100 Doral, FL 33172,USA

## 1.2. Equipment Under Test (EUT) Description

<b>Product Name:</b>	Smart Phone	
<b>Hardware Version:</b>	FS170-MB-V0.3	
<b>Software Version:</b>	BLU_M0030TT_V9.0.05.03_TIGO_4X2_GPS_PLS_1SIM_20200304-1025	
<b>Modulation Type:</b>	QPSK, 16QAM,64QAM	
<b>Operation Band:</b>	Band 2 / 4 / 5 / 7 / 38	
<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 – 2670MHz
		Rx:2620MHz – 2690MHz
	LTE Band 38	Tx: 2570MHz - 2620MHz
		Tx: 2570MHz - 2620MHz
<b>Channel Bandwidth</b>	LTE Band 2	1.4MHz, 3 MHz, 5 MHz, 10MHz, 15 MHz, 20 MHz
	LTE Band 4	1.4MHz, 3 MHz, 5 MHz, 10MHz, 15 MHz, 20 MHz
	LTE Band 5	1.4MHz, 3 MHz, 5 MHz, 10MHz
	LTE Band 7	5MHz,10MHz,15MHz,20MHz
	LTE Band 38	5MHz,10MHz,15MHz,20MHz



<b>Antenna Type:</b>	Fixed Internal	
<b>Antenna Gain:</b>	LTE Band 2	-1.20 dBi
	LTE Band 4	-1.00 dBi
	LTE Band 5	-2.00 dBi
	LTE Band 7	-1.60 dBi
	LTE Band 38	-1.60 dBi
<b>Accessory Information:</b>	Battery	
	Brand Name:	BOLD
	Model No.:	C905803400P
	Capacity:	4000 mAH
	Rated Voltage:	3.85V
	Charge Limit:	4.35V
	AC Adapter 1	
	Brand Name:	BOLD
	Model No.:	US-NB-1504
	Rated Input:	100-240V~50/60Hz 0.3A
	Rated Output:	5V---1.5A

**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	0.053	0.051	0.051	18M0G7D	18M0W7D	18M1D7W	
15	0.051	0.053	0.051	13M5G7D	13M5W7D	13M5D7W	
10	0.052	0.052	0.050	9M03G7D	8M99W7D	9M01D7W	
5	0.052	0.052	0.051	4M52G7D	4M52W7D	4M52D7W	
3	0.051	0.052	0.050	2M72G7D	2M72W7D	2M73D7W	
1.4	0.053	0.052	0.050	1M10G7D	1M10W7D	1M10D7W	
LTE Band4		Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
20	0.045	0.043	0.035	18M0G7D	18M1W7D	18M0D7W	
15	0.043	0.042	0.035	13M5G7D	13M5W7D	13M5D7W	
10	0.042	0.041	0.034	9M05G7D	8M99W7D	9M00D7W	
5	0.042	0.040	0.035	4M52G7D	4M52W7D	4M51D7W	
3	0.043	0.043	0.035	2M72G7D	2M72W7D	2M73D7W	
1.4	0.041	0.041	0.034	1M10G7D	1M10W7D	1M10D7W	
LTE Band5		Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
10	0.111	0.099	0.079	9M01G7D	8M98W7D	9M00D7W	
5	0.106	0.096	0.078	4M52G7D	4M52W7D	4M50D7W	
3	0.110	0.098	0.076	2M72G7D	2M72W7D	2M73D7W	
1.4	0.108	0.099	0.078	1M10G7D	1M10W7D	1M10D7W	
LTE Band7		Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
20	0.081	0.063	0.066	18M0G7D	18M1W7D	18M0D7W	
15	0.077	0.066	0.065	13M5G7D	13M5W7D	13M5D7W	
10	0.128	0.108	0.101	9M03G7D	8M98W7D	9M00D7W	
5	0.078	0.066	0.062	4M52G7D	4M52W7D	4M51D7W	
LTE Band38		Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
20	0.126	0.103	0.096	18M0G7D	18M0W7D	18M0D7W	
15	0.124	0.104	0.097	13M5G7D	13M5W7D	13M5D7W	
10	0.125	0.106	0.096	9M01G7D	8M97W7D	8M99D7W	
5	0.126	0.103	0.094	4M51G7D	4M51W7D	4M50D7W	



## 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(c)(10) 27.50(d)(4), 27.50(h)(2) ) 27.50(a)(3)	Transmitter Conducted Output Power and ERP/EIRP	Feb 22 to 26, 2020	Gao Mingzhou Peng Xuewei	PASS	No deviation
2.1049	Occupied Bandwidth	Feb 21 to 26, 2020	Gao Mingzhou	PASS	No deviation
2.1055, 22.355, 24.235, 27.54	Frequency Stability	Feb 22 to 26, 2020	Gao Mingzhou	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Feb 22, 2020	Gao Mingzhou	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53(g)(h) 27.53(m)(4)(a)(4)	Conducted Spurious Emissions	Feb 22 to 29, 2020	Gao Mingzhou	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53(g)(h) 27.53(m)(4)(a)(4)	Band Edge	Feb 22 to 26, 2020	Gao Mingzhou	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53(g)(h) 27.53(m)(4)(a)(4)	Radiated Spurious Emissions	Mar 03 to 15, 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 26.5dB contains two parts that cable loss 16.5dB 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, Part 22H, Part 24E and 27D&H&L&M Requirements

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

#### 2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

According to FCC section 24.232 (c) for LTE Band 2/25, Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

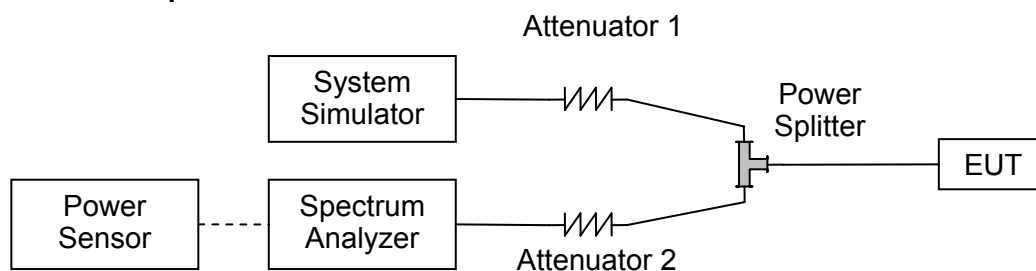
According to FCC section 27.50 (d) for LTE Band 4, fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat EIRP.

According to FCC section 22.913 (a.2) for LTE Band 5/26, the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 27.50 (h) for LTE Band 7/41, 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.

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

#### 2.1.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 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:**

<b>LTE Band2</b>						
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	20.40	20.56	20.55
20	QPSK	1	49	20.30	20.33	20.55
20	QPSK	1	99	20.29	20.40	20.45
20	QPSK	50	0	19.96	20.01	19.91
20	QPSK	50	24	19.94	19.94	19.87
20	QPSK	50	50	19.86	20.05	19.99
20	QPSK	100	0	20.00	19.86	19.98
20	16QAM	1	0	20.43	19.99	20.06
20	16QAM	1	49	20.46	19.74	20.18
20	16QAM	1	99	20.10	20.14	19.92
20	16QAM	50	0	18.97	19.22	18.96
20	16QAM	50	24	19.03	19.01	19.35
20	16QAM	50	50	18.95	19.45	19.25
20	16QAM	100	0	19.03	19.08	19.29
20	64QAM	1	0	20.14	19.61	19.93
20	64QAM	1	49	20.01	19.77	19.94
20	64QAM	1	99	19.82	19.75	20.43
20	64QAM	50	0	19.09	19.47	19.07
20	64QAM	50	24	19.03	19.02	19.39
20	64QAM	50	50	19.06	19.39	19.41
20	64QAM	100	0	19.14	19.01	19.31



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	20.33	20.27	20.33
15	QPSK	1	37	20.41	20.25	20.30
15	QPSK	1	74	20.26	20.27	20.37
15	QPSK	36	0	19.86	19.96	19.90
15	QPSK	36	20	19.99	19.97	20.05
15	QPSK	36	39	19.99	19.95	19.87
15	QPSK	75	0	20.00	19.83	20.04
15	16QAM	1	0	20.21	20.52	20.56
15	16QAM	1	37	20.55	20.00	20.52
15	16QAM	1	74	20.53	20.50	20.19
15	16QAM	36	0	19.01	18.78	19.34
15	16QAM	36	20	18.98	18.93	19.08
15	16QAM	36	39	18.90	19.01	19.13
15	16QAM	75	0	18.95	19.03	19.16
15	64QAM	1	0	20.17	19.82	20.24
15	64QAM	1	37	20.42	20.43	20.09
15	64QAM	1	74	20.16	20.06	20.12
15	64QAM	36	0	19.16	19.05	19.31
15	64QAM	36	20	19.14	18.98	19.13
15	64QAM	36	39	19.11	18.98	19.11
15	64QAM	75	0	19.01	19.00	19.14



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	20.46	20.34	20.49
10	QPSK	1	25	20.37	20.29	20.38
10	QPSK	1	49	20.37	20.31	20.44
10	QPSK	25	0	19.89	20.00	20.07
10	QPSK	25	12	19.99	19.85	20.04
10	QPSK	25	25	19.97	19.85	19.86
10	QPSK	50	0	19.98	19.91	20.04
10	16QAM	1	0	20.33	20.53	20.10
10	16QAM	1	25	20.27	20.50	20.54
10	16QAM	1	49	20.52	20.27	20.51
10	16QAM	25	0	18.90	19.04	19.27
10	16QAM	25	12	18.96	19.05	19.16
10	16QAM	25	25	18.87	18.98	19.19
10	16QAM	50	0	19.03	18.98	19.30
10	64QAM	1	0	20.35	19.74	20.05
10	64QAM	1	25	19.90	19.73	20.33
10	64QAM	1	49	19.78	20.08	19.99
10	64QAM	25	0	19.04	19.22	18.92
10	64QAM	25	12	19.05	19.09	19.45
10	64QAM	25	25	19.01	18.98	19.24
10	64QAM	50	0	19.15	19.04	19.28



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	20.40	20.45	20.45
5	QPSK	1	12	20.52	20.39	20.47
5	QPSK	1	24	20.54	20.48	20.54
5	QPSK	12	0	19.95	19.88	19.90
5	QPSK	12	7	19.89	19.91	19.95
5	QPSK	12	13	19.99	19.91	19.95
5	QPSK	25	0	19.99	19.77	20.08
5	16QAM	1	0	20.52	20.10	20.55
5	16QAM	1	12	20.50	20.01	20.43
5	16QAM	1	24	20.17	20.10	20.53
5	16QAM	12	0	19.29	19.05	19.13
5	16QAM	12	7	19.06	18.96	19.13
5	16QAM	12	13	19.02	19.05	19.02
5	16QAM	25	0	19.14	19.23	19.27
5	64QAM	1	0	20.33	20.02	20.43
5	64QAM	1	12	19.99	19.89	20.11
5	64QAM	1	24	20.19	19.89	20.19
5	64QAM	12	0	19.20	18.94	19.23
5	64QAM	12	7	18.88	19.20	19.37
5	64QAM	12	13	18.89	19.15	19.28
5	64QAM	25	0	18.93	19.20	19.23



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	20.44	20.33	20.34
3	QPSK	1	8	20.35	20.42	20.26
3	QPSK	1	14	20.38	20.33	20.31
3	QPSK	8	0	19.89	19.89	19.83
3	QPSK	8	4	19.91	20.01	19.89
3	QPSK	8	7	20.11	20.01	19.89
3	QPSK	15	0	19.94	19.97	19.80
3	16QAM	1	0	20.17	20.06	20.22
3	16QAM	1	8	20.51	20.03	20.53
3	16QAM	1	14	20.12	19.93	20.35
3	16QAM	8	0	19.32	19.11	19.12
3	16QAM	8	4	19.31	18.94	19.31
3	16QAM	8	7	18.93	19.08	19.19
3	16QAM	15	0	19.30	19.02	19.23
3	64QAM	1	0	20.31	19.61	19.93
3	64QAM	1	8	20.19	19.97	20.16
3	64QAM	1	14	20.38	19.83	19.87
3	64QAM	8	0	19.54	19.10	19.04
3	64QAM	8	4	19.25	19.03	18.80
3	64QAM	8	7	18.89	18.91	18.86
3	64QAM	15	0	19.33	19.01	19.14





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	20.36	20.22	20.42
1.4	QPSK	1	3	20.44	20.40	20.36
1.4	QPSK	1	5	20.35	20.34	20.37
1.4	QPSK	3	0	20.44	20.47	20.53
1.4	QPSK	3	1	20.52	20.48	20.58
1.4	QPSK	3	3	20.45	20.44	20.42
1.4	QPSK	6	0	19.96	19.96	20.04
1.4	16QAM	1	0	20.14	19.85	20.33
1.4	16QAM	1	3	20.52	19.93	20.27
1.4	16QAM	1	5	20.18	19.96	20.55
1.4	16QAM	3	0	20.19	19.86	20.31
1.4	16QAM	3	1	20.25	19.84	20.37
1.4	16QAM	3	3	20.22	19.86	20.35
1.4	16QAM	6	0	19.12	18.83	18.84
1.4	64QAM	1	0	20.22	19.86	20.06
1.4	64QAM	1	3	20.25	19.65	19.80
1.4	64QAM	1	5	20.13	19.63	20.00
1.4	64QAM	3	0	20.22	20.03	19.94
1.4	64QAM	3	1	20.26	20.09	20.07
1.4	64QAM	3	3	20.32	20.00	20.06
1.4	64QAM	6	0	19.33	19.06	19.08



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	19.51	19.65	19.64
20	QPSK	1	49	19.24	19.62	19.42
20	QPSK	1	99	19.22	19.34	19.22
20	QPSK	50	0	19.23	19.22	19.24
20	QPSK	50	24	19.22	19.21	19.22
20	QPSK	50	50	19.16	19.32	19.22
20	QPSK	100	0	19.43	19.18	19.27
20	16QAM	1	0	19.22	19.11	19.31
20	16QAM	1	49	19.44	19.22	19.21
20	16QAM	1	99	19.12	19.42	19.14
20	16QAM	50	0	18.41	18.48	18.22
20	16QAM	50	24	18.39	18.37	18.38
20	16QAM	50	50	18.42	18.22	18.27
20	16QAM	100	0	18.46	18.45	18.41
20	64QAM	1	0	18.21	18.54	18.44
20	64QAM	1	49	18.51	18.29	18.34
20	64QAM	1	99	18.21	18.12	18.22
20	64QAM	50	0	18.47	18.45	18.21
20	64QAM	50	24	18.48	18.44	18.42
20	64QAM	50	50	18.44	18.12	18.24
20	64QAM	100	0	18.41	18.29	18.48



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	19.46	19.34	19.22
15	QPSK	1	37	19.31	19.24	19.44
15	QPSK	1	74	19.22	19.34	19.42
15	QPSK	36	0	19.27	19.28	19.31
15	QPSK	36	20	19.31	19.28	19.27
15	QPSK	36	39	19.04	19.21	19.21
15	QPSK	75	0	19.42	19.36	19.31
15	16QAM	1	0	19.42	19.12	19.11
15	16QAM	1	37	19.22	19.42	19.31
15	16QAM	1	74	19.11	19.31	19.11
15	16QAM	36	0	18.37	18.36	18.54
15	16QAM	36	20	18.17	18.31	18.13
15	16QAM	36	39	18.35	18.12	18.41
15	16QAM	75	0	18.42	18.41	18.78
15	64QAM	1	0	18.37	18.42	18.21
15	64QAM	1	37	18.37	18.25	18.25
15	64QAM	1	74	18.33	18.44	18.52
15	64QAM	36	0	18.38	18.37	18.62
15	64QAM	36	20	18.34	18.22	18.48
15	64QAM	36	39	18.41	18.35	18.21
15	64QAM	75	0	18.12	18.22	18.25



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	19.24	19.22	19.24
10	QPSK	1	25	19.25	19.42	19.22
10	QPSK	1	49	19.23	19.21	19.21
10	QPSK	25	0	19.21	19.34	19.12
10	QPSK	25	12	19.23	19.31	19.31
10	QPSK	25	25	19.27	19.34	19.31
10	QPSK	50	0	19.25	19.39	19.35
10	16QAM	1	0	19.33	19.31	19.22
10	16QAM	1	25	19.28	19.21	19.12
10	16QAM	1	49	19.31	19.31	19.24
10	16QAM	25	0	18.37	18.49	18.34
10	16QAM	25	12	18.74	18.43	18.36
10	16QAM	25	25	18.66	18.33	18.33
10	16QAM	50	0	18.11	18.59	18.39
10	64QAM	1	0	18.12	18.25	18.36
10	64QAM	1	25	18.21	18.34	18.31
10	64QAM	1	49	18.35	18.14	18.32
10	64QAM	25	0	18.51	18.41	18.18
10	64QAM	25	12	18.12	18.46	18.21
10	64QAM	25	25	18.22	18.47	18.19
10	64QAM	50	0	18.12	18.37	18.32



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	19.24	19.42	19.34
5	QPSK	1	12	19.14	19.24	19.26
5	QPSK	1	24	19.31	19.42	19.24
5	QPSK	12	0	19.25	19.39	19.24
5	QPSK	12	7	19.24	19.21	19.24
5	QPSK	12	13	19.22	19.34	19.35
5	QPSK	25	0	19.24	19.35	19.38
5	16QAM	1	0	19.21	19.22	19.22
5	16QAM	1	12	19.16	19.22	19.22
5	16QAM	1	24	19.12	19.22	19.14
5	16QAM	12	0	18.49	18.29	18.54
5	16QAM	12	7	18.46	18.36	18.51
5	16QAM	12	13	18.21	18.47	18.49
5	16QAM	25	0	18.49	18.47	18.53
5	64QAM	1	0	18.21	18.17	18.21
5	64QAM	1	12	18.42	18.22	18.21
5	64QAM	1	24	18.24	18.12	18.21
5	64QAM	12	0	18.35	18.33	18.11
5	64QAM	12	7	18.19	18.32	18.23
5	64QAM	12	13	18.55	18.27	18.29
5	64QAM	25	0	18.41	18.53	18.39



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	19.51	19.25	19.21
3	QPSK	1	8	19.37	19.26	19.12
3	QPSK	1	14	19.11	19.24	19.21
3	QPSK	8	0	19.11	19.21	19.42
3	QPSK	8	4	19.21	19.11	19.13
3	QPSK	8	7	19.21	19.21	19.21
3	QPSK	15	0	19.37	19.35	19.12
3	16QAM	1	0	19.42	19.28	19.41
3	16QAM	1	8	19.11	19.21	19.12
3	16QAM	1	14	19.21	19.46	19.22
3	16QAM	8	0	18.46	18.21	18.61
3	16QAM	8	4	18.31	18.24	18.22
3	16QAM	8	7	18.32	18.14	18.31
3	16QAM	15	0	18.33	18.24	18.22
3	64QAM	1	0	18.24	18.22	18.31
3	64QAM	1	8	18.34	18.22	18.22
3	64QAM	1	14	18.56	18.62	18.24
3	64QAM	8	0	18.46	18.45	18.33
3	64QAM	8	4	18.44	18.17	18.21
3	64QAM	8	7	18.17	18.22	18.24
3	64QAM	15	0	18.42	18.45	18.42



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	19.32	19.31	19.22
1.4	QPSK	1	3	19.22	19.14	19.22
1.4	QPSK	1	5	19.14	19.21	19.11
1.4	QPSK	3	0	19.22	19.31	19.25
1.4	QPSK	3	1	19.12	19.13	19.22
1.4	QPSK	3	3	19.12	19.16	19.14
1.4	QPSK	6	0	19.14	19.31	19.22
1.4	16QAM	1	0	19.24	19.21	19.22
1.4	16QAM	1	3	19.12	19.22	19.21
1.4	16QAM	1	5	19.15	19.24	19.22
1.4	16QAM	3	0	19.12	19.13	19.24
1.4	16QAM	3	1	19.14	19.24	19.31
1.4	16QAM	3	3	19.12	19.22	19.25
1.4	16QAM	6	0	19.17	19.13	19.12
1.4	64QAM	1	0	18.12	18.32	18.32
1.4	64QAM	1	3	18.22	18.12	18.32
1.4	64QAM	1	5	18.34	18.14	18.44
1.4	64QAM	3	0	18.22	18.26	18.22
1.4	64QAM	3	1	18.44	18.41	18.34
1.4	64QAM	3	3	18.47	18.45	18.42
1.4	64QAM	6	0	18.39	18.51	18.37



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	22.12	22.45	22.03
10	QPSK	1	25	22.07	22.11	22.16
10	QPSK	1	49	22.16	22.05	22.09
10	QPSK	25	0	21.57	21.47	21.58
10	QPSK	25	12	21.54	21.61	21.53
10	QPSK	25	25	21.65	21.67	21.66
10	QPSK	50	0	21.50	21.53	21.49
10	16QAM	1	0	21.94	21.55	21.89
10	16QAM	1	25	21.94	21.62	21.62
10	16QAM	1	49	21.80	21.52	21.55
10	16QAM	25	0	20.66	20.88	20.74
10	16QAM	25	12	20.52	20.86	20.66
10	16QAM	25	25	20.69	20.77	20.87
10	16QAM	50	0	20.66	20.83	20.58
10	64QAM	1	0	20.66	20.59	20.81
10	64QAM	1	25	20.56	20.65	20.66
10	64QAM	1	49	20.66	20.55	20.66
10	64QAM	25	0	20.69	20.54	20.91
10	64QAM	25	12	20.63	20.81	20.62
10	64QAM	25	25	20.66	20.97	20.91
10	64QAM	50	0	20.61	20.97	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				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	22.00	21.98	22.07
5	QPSK	1	12	22.17	21.99	22.19
5	QPSK	1	24	22.09	22.02	22.25
5	QPSK	12	0	21.59	21.61	21.54
5	QPSK	12	7	21.76	21.68	21.65
5	QPSK	12	13	21.64	21.61	21.56
5	QPSK	25	0	21.63	21.67	21.56
5	16QAM	1	0	21.66	21.58	21.82
5	16QAM	1	12	21.68	21.62	21.72
5	16QAM	1	24	21.66	21.72	21.77
5	16QAM	12	0	20.95	20.66	20.58
5	16QAM	12	7	20.63	20.83	20.97
5	16QAM	12	13	20.71	20.84	20.95
5	16QAM	25	0	20.85	20.78	20.93
5	64QAM	1	0	20.77	20.57	20.81
5	64QAM	1	12	20.75	20.84	20.66
5	64QAM	1	24	20.64	20.51	20.56
5	64QAM	12	0	20.74	20.66	20.43
5	64QAM	12	7	20.54	20.71	20.65
5	64QAM	12	13	20.49	20.79	20.77
5	64QAM	25	0	20.63	20.91	20.66



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	22.03	22.42	22.17
3	QPSK	1	8	22.08	22.23	22.16
3	QPSK	1	14	22.36	22.42	22.15
3	QPSK	8	0	21.62	21.71	21.69
3	QPSK	8	4	21.63	21.59	21.69
3	QPSK	8	7	21.46	21.61	21.68
3	QPSK	15	0	21.62	21.93	21.56
3	16QAM	1	0	21.55	21.91	21.53
3	16QAM	1	8	21.66	21.59	21.55
3	16QAM	1	14	21.86	21.52	21.62
3	16QAM	8	0	20.92	20.83	20.76
3	16QAM	8	4	20.88	20.78	20.81
3	16QAM	8	7	20.91	20.69	20.72
3	16QAM	15	0	20.55	20.62	20.53
3	64QAM	1	0	20.55	20.55	20.64
3	64QAM	1	8	20.51	20.59	20.56
3	64QAM	1	14	20.62	20.54	20.72
3	64QAM	8	0	20.65	20.69	20.76
3	64QAM	8	4	20.62	20.68	20.77
3	64QAM	8	7	20.66	20.66	20.78
3	64QAM	15	0	20.72	20.75	20.52



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	22.32	22.24	22.22
1.4	QPSK	1	3	22.25	22.16	22.24
1.4	QPSK	1	5	22.28	22.16	22.13
1.4	QPSK	3	0	22.26	22.23	22.16
1.4	QPSK	3	1	22.18	22.18	22.22
1.4	QPSK	3	3	22.26	22.14	22.26
1.4	QPSK	6	0	21.53	21.63	21.39
1.4	16QAM	1	0	21.55	21.55	21.66
1.4	16QAM	1	3	21.62	21.62	21.53
1.4	16QAM	1	5	21.55	21.75	21.66
1.4	16QAM	3	0	21.74	21.97	21.78
1.4	16QAM	3	1	21.66	21.81	21.55
1.4	16QAM	3	3	21.65	21.93	21.77
1.4	16QAM	6	0	20.52	20.54	20.59
1.4	64QAM	1	0	20.72	20.54	20.56
1.4	64QAM	1	3	20.66	20.69	20.75
1.4	64QAM	1	5	20.81	20.56	20.55
1.4	64QAM	3	0	20.64	20.71	20.65
1.4	64QAM	3	1	20.76	20.64	20.52
1.4	64QAM	3	3	20.85	20.67	20.62
1.4	64QAM	6	0	20.93	20.55	20.58



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	22.66	22.83	22.72
20	QPSK	1	49	22.58	22.71	22.62
20	QPSK	1	99	22.61	22.59	22.55
20	QPSK	50	0	21.74	21.77	21.76
20	QPSK	50	24	21.69	21.66	21.59
20	QPSK	50	50	21.73	21.57	21.56
20	QPSK	100	0	21.95	21.99	21.87
20	16QAM	1	0	21.58	21.55	21.66
20	16QAM	1	49	21.53	21.62	21.53
20	16QAM	1	99	21.36	21.66	21.62
20	16QAM	50	0	21.55	21.75	21.55
20	16QAM	50	24	21.62	21.66	21.62
20	16QAM	50	50	21.62	21.71	21.72
20	16QAM	100	0	21.62	21.58	21.52
20	64QAM	1	0	21.56	21.91	21.66
20	64QAM	1	49	21.56	21.89	21.75
20	64QAM	1	99	21.66	21.93	21.62
20	64QAM	50	0	20.68	20.77	20.68
20	64QAM	50	24	20.88	20.73	20.65
20	64QAM	50	50	20.69	20.62	20.75
20	64QAM	100	0	20.66	20.56	20.64



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	22.56	22.62	22.59
15	QPSK	1	37	22.63	22.54	22.59
15	QPSK	1	74	22.54	22.51	22.61
15	QPSK	36	0	21.86	21.91	21.87
15	QPSK	36	20	21.82	21.55	21.56
15	QPSK	36	39	21.92	21.89	21.97
15	QPSK	75	0	21.95	21.93	21.66
15	16QAM	1	0	21.62	21.62	21.63
15	16QAM	1	37	21.64	21.52	21.66
15	16QAM	1	74	21.56	21.51	21.57
15	16QAM	36	0	21.58	21.66	21.72
15	16QAM	36	20	21.65	21.56	21.55
15	16QAM	36	39	21.92	21.65	21.62
15	16QAM	75	0	21.65	21.55	21.75
15	64QAM	1	0	21.85	21.66	21.78
15	64QAM	1	37	21.62	21.63	21.58
15	64QAM	1	74	21.55	21.62	21.77
15	64QAM	36	0	20.58	20.66	20.62
15	64QAM	36	20	20.62	20.85	20.56
15	64QAM	36	39	20.56	20.62	20.88
15	64QAM	75	0	20.55	20.61	20.66



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	22.56	22.56	22.59
10	QPSK	1	25	22.55	22.58	22.44
10	QPSK	1	49	22.32	22.66	22.36
10	QPSK	25	0	21.75	21.93	21.88
10	QPSK	25	12	21.77	21.69	21.95
10	QPSK	25	25	21.82	21.96	21.91
10	QPSK	50	0	21.93	21.91	21.84
10	16QAM	1	0	21.66	21.62	21.66
10	16QAM	1	25	21.62	21.55	21.57
10	16QAM	1	49	21.55	21.85	21.62
10	16QAM	25	0	21.85	21.55	21.55
10	16QAM	25	12	21.93	21.55	21.62
10	16QAM	25	25	21.63	21.92	21.54
10	16QAM	50	0	21.62	21.66	21.62
10	64QAM	1	0	21.55	21.62	21.66
10	64QAM	1	25	21.56	21.62	21.57
10	64QAM	1	49	21.58	21.62	21.62
10	64QAM	25	0	20.85	20.85	20.88
10	64QAM	25	12	20.62	20.62	20.72
10	64QAM	25	25	20.62	20.55	20.69
10	64QAM	50	0	20.77	20.66	20.74



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	22.58	22.52	22.36
5	QPSK	1	12	22.61	22.56	22.52
5	QPSK	1	24	22.52	22.46	22.58
5	QPSK	12	0	21.86	21.83	21.55
5	QPSK	12	7	21.66	21.56	21.88
5	QPSK	12	13	21.88	21.66	21.66
5	QPSK	25	0	21.76	21.85	21.86
5	16QAM	1	0	21.62	21.59	21.62
5	16QAM	1	12	21.56	21.62	21.73
5	16QAM	1	24	21.56	21.52	21.73
5	16QAM	12	0	21.53	21.62	21.62
5	16QAM	12	7	21.52	21.55	21.55
5	16QAM	12	13	21.55	21.53	21.62
5	16QAM	25	0	21.62	21.56	21.66
5	64QAM	1	0	21.56	21.63	21.52
5	64QAM	1	12	21.66	21.61	21.63
5	64QAM	1	24	21.68	21.62	21.62
5	64QAM	12	0	20.85	20.89	20.82
5	64QAM	12	7	20.79	20.55	20.62
5	64QAM	12	13	20.89	20.66	20.72
5	64QAM	25	0	20.94	20.54	20.76



<b>LTE Band 38</b>						
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	22.56	22.61	22.51
20	QPSK	1	49	22.53	22.52	22.56
20	QPSK	1	99	22.55	22.52	22.52
20	QPSK	50	0	21.72	21.88	21.79
20	QPSK	50	24	21.83	21.82	21.68
20	QPSK	50	50	21.79	21.62	21.75
20	QPSK	100	0	21.76	21.68	21.66
20	16QAM	1	0	21.73	21.58	21.61
20	16QAM	1	49	21.63	21.68	21.58
20	16QAM	1	99	21.61	21.61	21.69
20	16QAM	50	0	21.22	21.26	21.16
20	16QAM	50	24	21.17	21.31	21.26
20	16QAM	50	50	21.16	21.18	21.21
20	16QAM	100	0	21.16	21.16	21.16
20	64QAM	1	0	21.42	21.23	21.12
20	64QAM	1	49	21.41	21.13	21.22
20	64QAM	1	99	21.35	21.21	21.11
20	64QAM	50	0	21.14	21.21	21.26
20	64QAM	50	24	21.12	21.24	21.21
20	64QAM	50	50	21.22	21.23	21.17
20	64QAM	100	0	21.08	21.21	21.19





LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37825	38000	38175
Frequency (MHz)				2577.5	2595	2612.5
15	QPSK	1	0	22.52	22.36	22.47
15	QPSK	1	37	22.51	22.47	22.53
15	QPSK	1	74	22.45	22.41	22.51
15	QPSK	36	0	21.66	21.73	21.79
15	QPSK	36	20	21.86	21.66	21.68
15	QPSK	36	39	21.67	21.59	21.85
15	QPSK	75	0	21.66	21.66	21.62
15	16QAM	1	0	21.55	21.67	21.62
15	16QAM	1	37	21.62	21.56	21.75
15	16QAM	1	74	21.62	21.57	21.63
15	16QAM	36	0	21.13	21.18	21.12
15	16QAM	36	20	21.09	21.13	21.15
15	16QAM	36	39	21.09	21.11	21.13
15	16QAM	75	0	21.19	21.23	21.26
15	64QAM	1	0	21.16	21.17	21.19
15	64QAM	1	37	21.47	21.15	21.29
15	64QAM	1	74	21.27	21.22	21.24
15	64QAM	36	0	21.11	21.23	21.29
15	64QAM	36	20	21.11	21.27	21.27
15	64QAM	36	39	21.18	21.24	21.26
15	64QAM	75	0	21.11	21.22	21.16



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	22.52	22.57	22.32
10	QPSK	1	25	22.25	22.56	22.32
10	QPSK	1	49	22.18	22.38	22.27
10	QPSK	25	0	21.88	21.88	21.86
10	QPSK	25	12	21.72	21.66	21.59
10	QPSK	25	25	21.66	21.57	21.72
10	QPSK	50	0	21.56	21.66	21.86
10	16QAM	1	0	21.69	21.67	21.85
10	16QAM	1	25	21.69	21.69	21.74
10	16QAM	1	49	21.63	21.58	21.67
10	16QAM	25	0	21.07	21.22	21.27
10	16QAM	25	12	21.09	21.21	21.31
10	16QAM	25	25	21.03	21.16	21.16
10	16QAM	50	0	21.11	21.23	21.21
10	64QAM	1	0	21.42	21.23	21.21
10	64QAM	1	25	21.31	21.26	21.25
10	64QAM	1	49	21.33	21.21	21.25
10	64QAM	25	0	21.26	21.15	21.32
10	64QAM	25	12	21.27	21.25	21.24
10	64QAM	25	25	21.26	21.31	21.21
10	64QAM	50	0	21.17	21.27	21.29



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37775	38000	38225
Frequency (MHz)				2572.5	2595	2617.5
5	QPSK	1	0	22.19	22.55	22.57
5	QPSK	1	12	22.25	22.41	22.26
5	QPSK	1	24	22.27	22.59	22.28
5	QPSK	12	0	21.66	21.76	21.81
5	QPSK	12	7	21.65	21.66	21.62
5	QPSK	12	13	21.75	21.55	21.66
5	QPSK	25	0	21.78	21.62	21.86
5	16QAM	1	0	21.66	21.53	21.67
5	16QAM	1	12	21.58	21.58	21.73
5	16QAM	1	24	21.56	21.55	21.64
5	16QAM	12	0	21.18	21.16	21.25
5	16QAM	12	7	21.15	21.18	21.29
5	16QAM	12	13	21.08	21.15	21.03
5	16QAM	25	0	21.13	21.17	21.16
5	64QAM	1	0	21.22	21.18	21.18
5	64QAM	1	12	21.31	21.21	21.32
5	64QAM	1	24	21.17	21.19	21.18
5	64QAM	12	0	21.12	21.11	21.19
5	64QAM	12	7	21.21	21.23	21.09
5	64QAM	12	13	21.14	21.09	21.15
5	64QAM	25	0	21.29	21.21	21.25



**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	17.05	0.051	17.21	0.053	17.20	0.052
20	QPSK	1	49	16.95	0.050	16.98	0.050	17.20	0.052
20	QPSK	1	99	16.94	0.049	17.05	0.051	17.10	0.051
20	QPSK	50	0	16.61	0.046	16.66	0.046	16.56	0.045
20	QPSK	50	24	16.59	0.046	16.59	0.046	16.52	0.045
20	QPSK	50	50	16.51	0.045	16.70	0.047	16.64	0.046
20	QPSK	100	0	16.65	0.046	16.51	0.045	16.63	0.046
20	16QAM	1	0	17.08	0.051	16.64	0.046	16.71	0.047
20	16QAM	1	49	17.11	0.051	16.39	0.044	16.83	0.048
20	16QAM	1	99	16.75	0.047	16.79	0.048	16.57	0.045
20	16QAM	50	0	15.62	0.036	15.87	0.039	15.61	0.036
20	16QAM	50	24	15.68	0.037	15.66	0.037	16.00	0.040
20	16QAM	50	50	15.60	0.036	16.10	0.041	15.90	0.039
20	16QAM	100	0	15.68	0.037	15.73	0.037	15.94	0.039
20	64QAM	1	0	16.79	0.048	16.26	0.042	16.58	0.045
20	64QAM	1	49	16.66	0.046	16.42	0.044	16.59	0.046
20	64QAM	1	99	16.47	0.044	16.40	0.044	17.08	0.051
20	64QAM	50	0	15.74	0.037	16.12	0.041	15.72	0.037
20	64QAM	50	24	15.68	0.037	15.67	0.037	16.04	0.040
20	64QAM	50	50	15.71	0.037	16.04	0.040	16.06	0.040
20	64QAM	100	0	15.79	0.038	15.66	0.037	15.96	0.039



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	16.98	0.050	16.92	0.049	16.98	0.050
15	QPSK	1	37	17.06	0.051	16.90	0.049	16.95	0.050
15	QPSK	1	74	16.91	0.049	16.92	0.049	17.02	0.050
15	QPSK	36	0	16.51	0.045	16.61	0.046	16.55	0.045
15	QPSK	36	20	16.64	0.046	16.62	0.046	16.70	0.047
15	QPSK	36	39	16.64	0.046	16.60	0.046	16.52	0.045
15	QPSK	75	0	16.65	0.046	16.48	0.044	16.69	0.047
15	16QAM	1	0	16.86	0.049	17.17	0.052	17.21	0.053
15	16QAM	1	37	17.20	0.052	16.65	0.046	17.17	0.052
15	16QAM	1	74	17.18	0.052	17.15	0.052	16.84	0.048
15	16QAM	36	0	15.66	0.037	15.43	0.035	15.99	0.040
15	16QAM	36	20	15.63	0.037	15.58	0.036	15.73	0.037
15	16QAM	36	39	15.55	0.036	15.66	0.037	15.78	0.038
15	16QAM	75	0	15.60	0.036	15.68	0.037	15.81	0.038
15	64QAM	1	0	16.82	0.048	16.47	0.044	16.89	0.049
15	64QAM	1	37	17.07	0.051	17.08	0.051	16.74	0.047
15	64QAM	1	74	16.81	0.048	16.71	0.047	16.77	0.048
15	64QAM	36	0	15.81	0.038	15.70	0.037	15.96	0.039
15	64QAM	36	20	15.79	0.038	15.63	0.037	15.78	0.038
15	64QAM	36	39	15.76	0.038	15.63	0.037	15.76	0.038
15	64QAM	75	0	15.66	0.037	15.65	0.037	15.79	0.038



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	17.11	0.051	16.99	0.050	17.14	0.052
10	QPSK	1	25	17.02	0.050	16.94	0.049	17.03	0.050
10	QPSK	1	49	17.02	0.050	16.96	0.050	17.09	0.051
10	QPSK	25	0	16.54	0.045	16.65	0.046	16.72	0.047
10	QPSK	25	12	16.64	0.046	16.50	0.045	16.69	0.047
10	QPSK	25	25	16.62	0.046	16.50	0.045	16.51	0.045
10	QPSK	50	0	16.63	0.046	16.56	0.045	16.69	0.047
10	16QAM	1	0	16.98	0.050	17.18	0.052	16.75	0.047
10	16QAM	1	25	16.92	0.049	17.15	0.052	17.19	0.052
10	16QAM	1	49	17.17	0.052	16.92	0.049	17.16	0.052
10	16QAM	25	0	15.55	0.036	15.69	0.037	15.92	0.039
10	16QAM	25	12	15.61	0.036	15.70	0.037	15.81	0.038
10	16QAM	25	25	15.52	0.036	15.63	0.037	15.84	0.038
10	16QAM	50	0	15.68	0.037	15.63	0.037	15.95	0.039
10	64QAM	1	0	17.00	0.050	16.39	0.044	16.70	0.047
10	64QAM	1	25	16.55	0.045	16.38	0.043	16.98	0.050
10	64QAM	1	49	16.43	0.044	16.73	0.047	16.64	0.046
10	64QAM	25	0	15.69	0.037	15.87	0.039	15.57	0.036
10	64QAM	25	12	15.70	0.037	15.74	0.037	16.10	0.041
10	64QAM	25	25	15.66	0.037	15.63	0.037	15.89	0.039
10	64QAM	50	0	15.80	0.038	15.69	0.037	15.93	0.039



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	17.05	0.051	17.10	0.051	17.10	0.051
5	QPSK	1	12	17.17	0.052	17.04	0.051	17.12	0.052
5	QPSK	1	24	17.19	0.052	17.13	0.052	17.19	0.052
5	QPSK	12	0	16.60	0.046	16.53	0.045	16.55	0.045
5	QPSK	12	7	16.54	0.045	16.56	0.045	16.60	0.046
5	QPSK	12	13	16.64	0.046	16.56	0.045	16.60	0.046
5	QPSK	25	0	16.64	0.046	16.42	0.044	16.73	0.047
5	16QAM	1	0	17.17	0.052	16.75	0.047	17.20	0.052
5	16QAM	1	12	17.15	0.052	16.66	0.046	17.08	0.051
5	16QAM	1	24	16.82	0.048	16.75	0.047	17.18	0.052
5	16QAM	12	0	15.94	0.039	15.70	0.037	15.78	0.038
5	16QAM	12	7	15.71	0.037	15.61	0.036	15.78	0.038
5	16QAM	12	13	15.67	0.037	15.70	0.037	15.67	0.037
5	16QAM	25	0	15.79	0.038	15.88	0.039	15.92	0.039
5	64QAM	1	0	16.98	0.050	16.67	0.046	17.08	0.051
5	64QAM	1	12	16.64	0.046	16.54	0.045	16.76	0.047
5	64QAM	1	24	16.84	0.048	16.54	0.045	16.84	0.048
5	64QAM	12	0	15.85	0.038	15.59	0.036	15.88	0.039
5	64QAM	12	7	15.53	0.036	15.85	0.038	16.02	0.040
5	64QAM	12	13	15.54	0.036	15.80	0.038	15.93	0.039
5	64QAM	25	0	15.58	0.036	15.85	0.038	15.88	0.039



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	17.09	0.051	16.98	0.050	16.99	0.050
3	QPSK	1	8	17.00	0.050	17.07	0.051	16.91	0.049
3	QPSK	1	14	17.03	0.050	16.98	0.050	16.96	0.050
3	QPSK	8	0	16.54	0.045	16.54	0.045	16.48	0.044
3	QPSK	8	4	16.56	0.045	16.66	0.046	16.54	0.045
3	QPSK	8	7	16.76	0.047	16.66	0.046	16.54	0.045
3	QPSK	15	0	16.59	0.046	16.62	0.046	16.45	0.044
3	16QAM	1	0	16.82	0.048	16.71	0.047	16.87	0.049
3	16QAM	1	8	17.16	0.052	16.68	0.047	17.18	0.052
3	16QAM	1	14	16.77	0.048	16.58	0.045	17.00	0.050
3	16QAM	8	0	15.97	0.040	15.76	0.038	15.77	0.038
3	16QAM	8	4	15.96	0.039	15.59	0.036	15.96	0.039
3	16QAM	8	7	15.58	0.036	15.73	0.037	15.84	0.038
3	16QAM	15	0	15.95	0.039	15.67	0.037	15.88	0.039
3	64QAM	1	0	16.96	0.050	16.26	0.042	16.58	0.045
3	64QAM	1	8	16.84	0.048	16.62	0.046	16.81	0.048
3	64QAM	1	14	17.03	0.050	16.48	0.044	16.52	0.045
3	64QAM	8	0	16.19	0.042	15.75	0.038	15.69	0.037
3	64QAM	8	4	15.90	0.039	15.68	0.037	15.45	0.035
3	64QAM	8	7	15.54	0.036	15.56	0.036	15.51	0.036
3	64QAM	15	0	15.98	0.040	15.66	0.037	15.79	0.038





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	17.01	0.050	16.87	0.049	17.07	0.051
1.4	QPSK	1	3	17.09	0.051	17.05	0.051	17.01	0.050
1.4	QPSK	1	5	17.00	0.050	16.99	0.050	17.02	0.050
1.4	QPSK	3	0	17.09	0.051	17.12	0.052	17.18	0.052
1.4	QPSK	3	1	17.17	0.052	17.13	0.052	17.23	0.053
1.4	QPSK	3	3	17.10	0.051	17.09	0.051	17.07	0.051
1.4	QPSK	6	0	16.61	0.046	16.61	0.046	16.69	0.047
1.4	16QAM	1	0	16.79	0.048	16.50	0.045	16.98	0.050
1.4	16QAM	1	3	17.17	0.052	16.58	0.045	16.92	0.049
1.4	16QAM	1	5	16.83	0.048	16.61	0.046	17.20	0.052
1.4	16QAM	3	0	16.84	0.048	16.51	0.045	16.96	0.050
1.4	16QAM	3	1	16.90	0.049	16.49	0.045	17.02	0.050
1.4	16QAM	3	3	16.87	0.049	16.51	0.045	17.00	0.050
1.4	16QAM	6	0	15.77	0.038	15.48	0.035	15.49	0.035
1.4	64QAM	1	0	16.87	0.049	16.51	0.045	16.71	0.047
1.4	64QAM	1	3	16.90	0.049	16.30	0.043	16.45	0.044
1.4	64QAM	1	5	16.78	0.048	16.28	0.042	16.65	0.046
1.4	64QAM	3	0	16.87	0.049	16.68	0.047	16.59	0.046
1.4	64QAM	3	1	16.91	0.049	16.74	0.047	16.72	0.047
1.4	64QAM	3	3	16.97	0.050	16.65	0.046	16.71	0.047
1.4	64QAM	6	0	15.98	0.040	15.71	0.037	15.73	0.037



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	16.36	0.043	16.50	0.045	16.49	0.045
20	QPSK	1	49	16.09	0.041	16.47	0.044	16.27	0.042
20	QPSK	1	99	16.07	0.040	16.19	0.042	16.07	0.040
20	QPSK	50	0	16.08	0.041	16.07	0.040	16.09	0.041
20	QPSK	50	24	16.07	0.040	16.06	0.040	16.07	0.040
20	QPSK	50	50	16.01	0.040	16.17	0.041	16.07	0.040
20	QPSK	100	0	16.28	0.042	16.03	0.040	16.12	0.041
20	16QAM	1	0	16.07	0.040	15.96	0.039	16.16	0.041
20	16QAM	1	49	16.29	0.043	16.07	0.040	16.06	0.040
20	16QAM	1	99	15.97	0.040	16.27	0.042	15.99	0.040
20	16QAM	50	0	15.26	0.034	15.33	0.034	15.07	0.032
20	16QAM	50	24	15.24	0.033	15.22	0.033	15.23	0.033
20	16QAM	50	50	15.27	0.034	15.07	0.032	15.12	0.033
20	16QAM	100	0	15.31	0.034	15.30	0.034	15.26	0.034
20	64QAM	1	0	15.06	0.032	15.39	0.035	15.29	0.034
20	64QAM	1	49	15.36	0.034	15.14	0.033	15.19	0.033
20	64QAM	1	99	15.06	0.032	14.97	0.031	15.07	0.032
20	64QAM	50	0	15.32	0.034	15.30	0.034	15.06	0.032
20	64QAM	50	24	15.33	0.034	15.29	0.034	15.27	0.034
20	64QAM	50	50	15.29	0.034	14.97	0.031	15.09	0.032
20	64QAM	100	0	15.26	0.034	15.14	0.033	15.33	0.034



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	16.31	0.043	16.19	0.042	16.07	0.040
15	QPSK	1	37	16.16	0.041	16.09	0.041	16.29	0.043
15	QPSK	1	74	16.07	0.040	16.19	0.042	16.27	0.042
15	QPSK	36	0	16.12	0.041	16.13	0.041	16.16	0.041
15	QPSK	36	20	16.16	0.041	16.13	0.041	16.12	0.041
15	QPSK	36	39	15.89	0.039	16.06	0.040	16.06	0.040
15	QPSK	75	0	16.27	0.042	16.21	0.042	16.16	0.041
15	16QAM	1	0	16.27	0.042	15.97	0.040	15.96	0.039
15	16QAM	1	37	16.07	0.040	16.27	0.042	16.16	0.041
15	16QAM	1	74	15.96	0.039	16.16	0.041	15.96	0.039
15	16QAM	36	0	15.22	0.033	15.21	0.033	15.39	0.035
15	16QAM	36	20	15.02	0.032	15.16	0.033	14.98	0.031
15	16QAM	36	39	15.20	0.033	14.97	0.031	15.26	0.034
15	16QAM	75	0	15.27	0.034	15.26	0.034	15.63	0.037
15	64QAM	1	0	15.22	0.033	15.27	0.034	15.06	0.032
15	64QAM	1	37	15.22	0.033	15.10	0.032	15.10	0.032
15	64QAM	1	74	15.18	0.033	15.29	0.034	15.37	0.034
15	64QAM	36	0	15.23	0.033	15.22	0.033	15.47	0.035
15	64QAM	36	20	15.19	0.033	15.07	0.032	15.33	0.034
15	64QAM	36	39	15.26	0.034	15.20	0.033	15.06	0.032
15	64QAM	75	0	14.97	0.031	15.07	0.032	15.10	0.032



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	16.09	0.041	16.07	0.040	16.09	0.041
10	QPSK	1	25	16.10	0.041	16.27	0.042	16.07	0.040
10	QPSK	1	49	16.08	0.041	16.06	0.040	16.06	0.040
10	QPSK	25	0	16.06	0.040	16.19	0.042	15.97	0.040
10	QPSK	25	12	16.08	0.041	16.16	0.041	16.16	0.041
10	QPSK	25	25	16.12	0.041	16.19	0.042	16.16	0.041
10	QPSK	50	0	16.10	0.041	16.24	0.042	16.20	0.042
10	16QAM	1	0	16.18	0.041	16.16	0.041	16.07	0.040
10	16QAM	1	25	16.13	0.041	16.06	0.040	15.97	0.040
10	16QAM	1	49	16.16	0.041	16.16	0.041	16.09	0.041
10	16QAM	25	0	15.22	0.033	15.34	0.034	15.19	0.033
10	16QAM	25	12	15.59	0.036	15.28	0.034	15.21	0.033
10	16QAM	25	25	15.51	0.036	15.18	0.033	15.18	0.033
10	16QAM	50	0	14.96	0.031	15.44	0.035	15.24	0.033
10	64QAM	1	0	14.97	0.031	15.10	0.032	15.21	0.033
10	64QAM	1	25	15.06	0.032	15.19	0.033	15.16	0.033
10	64QAM	1	49	15.20	0.033	14.99	0.032	15.17	0.033
10	64QAM	25	0	15.36	0.034	15.26	0.034	15.03	0.032
10	64QAM	25	12	14.97	0.031	15.31	0.034	15.06	0.032
10	64QAM	25	25	15.07	0.032	15.32	0.034	15.04	0.032
10	64QAM	50	0	14.97	0.031	15.22	0.033	15.17	0.033



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	16.09	0.041	16.27	0.042	16.19	0.042
5	QPSK	1	12	15.99	0.040	16.09	0.041	16.11	0.041
5	QPSK	1	24	16.16	0.041	16.27	0.042	16.09	0.041
5	QPSK	12	0	16.10	0.041	16.24	0.042	16.09	0.041
5	QPSK	12	7	16.09	0.041	16.06	0.040	16.09	0.041
5	QPSK	12	13	16.07	0.040	16.19	0.042	16.20	0.042
5	QPSK	25	0	16.09	0.041	16.20	0.042	16.23	0.042
5	16QAM	1	0	16.06	0.040	16.07	0.040	16.07	0.040
5	16QAM	1	12	16.01	0.040	16.07	0.040	16.07	0.040
5	16QAM	1	24	15.97	0.040	16.07	0.040	15.99	0.040
5	16QAM	12	0	15.34	0.034	15.14	0.033	15.39	0.035
5	16QAM	12	7	15.31	0.034	15.21	0.033	15.36	0.034
5	16QAM	12	13	15.06	0.032	15.32	0.034	15.34	0.034
5	16QAM	25	0	15.34	0.034	15.32	0.034	15.38	0.035
5	64QAM	1	0	15.06	0.032	15.02	0.032	15.06	0.032
5	64QAM	1	12	15.27	0.034	15.07	0.032	15.06	0.032
5	64QAM	1	24	15.09	0.032	14.97	0.031	15.06	0.032
5	64QAM	12	0	15.20	0.033	15.18	0.033	14.96	0.031
5	64QAM	12	7	15.04	0.032	15.17	0.033	15.08	0.032
5	64QAM	12	13	15.40	0.035	15.12	0.033	15.14	0.033
5	64QAM	25	0	15.26	0.034	15.38	0.035	15.24	0.033



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	16.36	0.043	16.10	0.041	16.06	0.040
3	QPSK	1	8	16.22	0.042	16.11	0.041	15.97	0.040
3	QPSK	1	14	15.96	0.039	16.09	0.041	16.06	0.040
3	QPSK	8	0	15.96	0.039	16.06	0.040	16.27	0.042
3	QPSK	8	4	16.06	0.040	15.96	0.039	15.98	0.040
3	QPSK	8	7	16.06	0.040	16.06	0.040	16.06	0.040
3	QPSK	15	0	16.22	0.042	16.20	0.042	15.97	0.040
3	16QAM	1	0	16.27	0.042	16.13	0.041	16.26	0.042
3	16QAM	1	8	15.96	0.039	16.06	0.040	15.97	0.040
3	16QAM	1	14	16.06	0.040	16.31	0.043	16.07	0.040
3	16QAM	8	0	15.31	0.034	15.06	0.032	15.46	0.035
3	16QAM	8	4	15.16	0.033	15.09	0.032	15.07	0.032
3	16QAM	8	7	15.17	0.033	14.99	0.032	15.16	0.033
3	16QAM	15	0	15.18	0.033	15.09	0.032	15.07	0.032
3	64QAM	1	0	15.09	0.032	15.07	0.032	15.16	0.033
3	64QAM	1	8	15.19	0.033	15.07	0.032	15.07	0.032
3	64QAM	1	14	15.41	0.035	15.47	0.035	15.09	0.032
3	64QAM	8	0	15.31	0.034	15.30	0.034	15.18	0.033
3	64QAM	8	4	15.29	0.034	15.02	0.032	15.06	0.032
3	64QAM	8	7	15.02	0.032	15.07	0.032	15.09	0.032
3	64QAM	15	0	15.27	0.034	15.30	0.034	15.27	0.034



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	16.17	0.041	16.16	0.041	16.07	0.040
1.4	QPSK	1	3	16.07	0.040	15.99	0.040	16.07	0.040
1.4	QPSK	1	5	15.99	0.040	16.06	0.040	15.96	0.039
1.4	QPSK	3	0	16.07	0.040	16.16	0.041	16.10	0.041
1.4	QPSK	3	1	15.97	0.040	15.98	0.040	16.07	0.040
1.4	QPSK	3	3	15.97	0.040	16.01	0.040	15.99	0.040
1.4	QPSK	6	0	15.99	0.040	16.16	0.041	16.07	0.040
1.4	16QAM	1	0	16.09	0.041	16.06	0.040	16.07	0.040
1.4	16QAM	1	3	15.97	0.040	16.07	0.040	16.06	0.040
1.4	16QAM	1	5	16.00	0.040	16.09	0.041	16.07	0.040
1.4	16QAM	3	0	15.97	0.040	15.98	0.040	16.09	0.041
1.4	16QAM	3	1	15.99	0.040	16.09	0.041	16.16	0.041
1.4	16QAM	3	3	15.97	0.040	16.07	0.040	16.10	0.041
1.4	16QAM	6	0	16.02	0.040	15.98	0.040	15.97	0.040
1.4	64QAM	1	0	14.97	0.031	15.17	0.033	15.17	0.033
1.4	64QAM	1	3	15.07	0.032	14.97	0.031	15.17	0.033
1.4	64QAM	1	5	15.19	0.033	14.99	0.032	15.29	0.034
1.4	64QAM	3	0	15.07	0.032	15.11	0.032	15.07	0.032
1.4	64QAM	3	1	15.29	0.034	15.26	0.034	15.19	0.033
1.4	64QAM	3	3	15.32	0.034	15.30	0.034	15.27	0.034
1.4	64QAM	6	0	15.24	0.033	15.36	0.034	15.22	0.033



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	20.12	0.103	20.45	0.111	20.03	0.101
10	QPSK	1	25	20.07	0.102	20.11	0.103	20.16	0.104
10	QPSK	1	49	20.16	0.104	20.05	0.101	20.09	0.102
10	QPSK	25	0	19.57	0.091	19.47	0.089	19.58	0.091
10	QPSK	25	12	19.54	0.090	19.61	0.091	19.53	0.090
10	QPSK	25	25	19.65	0.092	19.67	0.093	19.66	0.092
10	QPSK	50	0	19.50	0.089	19.53	0.090	19.49	0.089
10	16QAM	1	0	19.94	0.099	19.55	0.090	19.89	0.097
10	16QAM	1	25	19.94	0.099	19.62	0.092	19.62	0.092
10	16QAM	1	49	19.80	0.095	19.52	0.090	19.55	0.090
10	16QAM	25	0	18.66	0.073	18.88	0.077	18.74	0.075
10	16QAM	25	12	18.52	0.071	18.86	0.077	18.66	0.073
10	16QAM	25	25	18.69	0.074	18.77	0.075	18.87	0.077
10	16QAM	50	0	18.66	0.073	18.83	0.076	18.58	0.072
10	64QAM	1	0	18.66	0.073	18.59	0.072	18.81	0.076
10	64QAM	1	25	18.56	0.072	18.65	0.073	18.66	0.073
10	64QAM	1	49	18.66	0.073	18.55	0.072	18.66	0.073
10	64QAM	25	0	18.69	0.074	18.54	0.071	18.91	0.078
10	64QAM	25	12	18.63	0.073	18.81	0.076	18.62	0.073
10	64QAM	25	25	18.66	0.073	18.97	0.079	18.91	0.078
10	64QAM	50	0	18.61	0.073	18.97	0.079	18.72	0.074





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	20.00	0.100	19.98	0.100	20.07	0.102
5	QPSK	1	12	20.17	0.104	19.99	0.100	20.19	0.104
5	QPSK	1	24	20.09	0.102	20.02	0.100	20.25	0.106
5	QPSK	12	0	19.59	0.091	19.61	0.091	19.54	0.090
5	QPSK	12	7	19.76	0.095	19.68	0.093	19.65	0.092
5	QPSK	12	13	19.64	0.092	19.61	0.091	19.56	0.090
5	QPSK	25	0	19.63	0.092	19.67	0.093	19.56	0.090
5	16QAM	1	0	19.66	0.092	19.58	0.091	19.82	0.096
5	16QAM	1	12	19.68	0.093	19.62	0.092	19.72	0.094
5	16QAM	1	24	19.66	0.092	19.72	0.094	19.77	0.095
5	16QAM	12	0	18.95	0.079	18.66	0.073	18.58	0.072
5	16QAM	12	7	18.63	0.073	18.83	0.076	18.97	0.079
5	16QAM	12	13	18.71	0.074	18.84	0.077	18.95	0.079
5	16QAM	25	0	18.85	0.077	18.78	0.076	18.93	0.078
5	64QAM	1	0	18.77	0.075	18.57	0.072	18.81	0.076
5	64QAM	1	12	18.75	0.075	18.84	0.077	18.66	0.073
5	64QAM	1	24	18.64	0.073	18.51	0.071	18.56	0.072
5	64QAM	12	0	18.74	0.075	18.66	0.073	18.43	0.070
5	64QAM	12	7	18.54	0.071	18.71	0.074	18.65	0.073
5	64QAM	12	13	18.49	0.071	18.79	0.076	18.77	0.075
5	64QAM	25	0	18.63	0.073	18.91	0.078	18.66	0.073



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	20.03	0.101	20.42	0.110	20.17	0.104
3	QPSK	1	8	20.08	0.102	20.23	0.105	20.16	0.104
3	QPSK	1	14	20.36	0.109	20.42	0.110	20.15	0.104
3	QPSK	8	0	19.62	0.092	19.71	0.094	19.69	0.093
3	QPSK	8	4	19.63	0.092	19.59	0.091	19.69	0.093
3	QPSK	8	7	19.46	0.088	19.61	0.091	19.68	0.093
3	QPSK	15	0	19.62	0.092	19.93	0.098	19.56	0.090
3	16QAM	1	0	19.55	0.090	19.91	0.098	19.53	0.090
3	16QAM	1	8	19.66	0.092	19.59	0.091	19.55	0.090
3	16QAM	1	14	19.86	0.097	19.52	0.090	19.62	0.092
3	16QAM	8	0	18.92	0.078	18.83	0.076	18.76	0.075
3	16QAM	8	4	18.88	0.077	18.78	0.076	18.81	0.076
3	16QAM	8	7	18.91	0.078	18.69	0.074	18.72	0.074
3	16QAM	15	0	18.55	0.072	18.62	0.073	18.53	0.071
3	64QAM	1	0	18.55	0.072	18.55	0.072	18.64	0.073
3	64QAM	1	8	18.51	0.071	18.59	0.072	18.56	0.072
3	64QAM	1	14	18.62	0.073	18.54	0.071	18.72	0.074
3	64QAM	8	0	18.65	0.073	18.69	0.074	18.76	0.075
3	64QAM	8	4	18.62	0.073	18.68	0.074	18.77	0.075
3	64QAM	8	7	18.66	0.073	18.66	0.073	18.78	0.076
3	64QAM	15	0	18.72	0.074	18.75	0.075	18.52	0.071



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	20.32	0.108	20.24	0.106	20.22	0.105
1.4	QPSK	1	3	20.25	0.106	20.16	0.104	20.24	0.106
1.4	QPSK	1	5	20.28	0.107	20.16	0.104	20.13	0.103
1.4	QPSK	3	0	20.26	0.106	20.23	0.105	20.16	0.104
1.4	QPSK	3	1	20.18	0.104	20.18	0.104	20.22	0.105
1.4	QPSK	3	3	20.26	0.106	20.14	0.103	20.26	0.106
1.4	QPSK	6	0	19.53	0.090	19.63	0.092	19.39	0.087
1.4	16QAM	1	0	19.55	0.090	19.55	0.090	19.66	0.092
1.4	16QAM	1	3	19.62	0.092	19.62	0.092	19.53	0.090
1.4	16QAM	1	5	19.55	0.090	19.75	0.094	19.66	0.092
1.4	16QAM	3	0	19.74	0.094	19.97	0.099	19.78	0.095
1.4	16QAM	3	1	19.66	0.092	19.81	0.096	19.55	0.090
1.4	16QAM	3	3	19.65	0.092	19.93	0.098	19.77	0.095
1.4	16QAM	6	0	18.52	0.071	18.54	0.071	18.59	0.072
1.4	64QAM	1	0	18.72	0.074	18.54	0.071	18.56	0.072
1.4	64QAM	1	3	18.66	0.073	18.69	0.074	18.75	0.075
1.4	64QAM	1	5	18.81	0.076	18.56	0.072	18.55	0.072
1.4	64QAM	3	0	18.64	0.073	18.71	0.074	18.65	0.073
1.4	64QAM	3	1	18.76	0.075	18.64	0.073	18.52	0.071
1.4	64QAM	3	3	18.85	0.077	18.67	0.074	18.62	0.073
1.4	64QAM	6	0	18.93	0.078	18.55	0.072	18.58	0.072



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	18.91	0.078	19.08	0.081	18.97	0.079
20	QPSK	1	49	18.83	0.076	18.96	0.079	18.87	0.077
20	QPSK	1	99	18.86	0.077	18.84	0.077	18.80	0.076
20	QPSK	50	0	17.99	0.063	18.02	0.063	18.01	0.063
20	QPSK	50	24	17.94	0.062	17.91	0.062	17.84	0.061
20	QPSK	50	50	17.98	0.063	17.82	0.061	17.81	0.060
20	QPSK	100	0	18.20	0.066	18.24	0.067	18.12	0.065
20	16QAM	1	0	17.83	0.061	17.80	0.060	17.91	0.062
20	16QAM	1	49	17.78	0.060	17.87	0.061	17.78	0.060
20	16QAM	1	99	17.61	0.058	17.91	0.062	17.87	0.061
20	16QAM	50	0	17.80	0.060	18.00	0.063	17.80	0.060
20	16QAM	50	24	17.87	0.061	17.91	0.062	17.87	0.061
20	16QAM	50	50	17.87	0.061	17.96	0.063	17.97	0.063
20	16QAM	100	0	17.87	0.061	17.83	0.061	17.77	0.060
20	64QAM	1	0	17.81	0.060	18.16	0.065	17.91	0.062
20	64QAM	1	49	17.81	0.060	18.14	0.065	18.00	0.063
20	64QAM	1	99	17.91	0.062	18.18	0.066	17.87	0.061
20	64QAM	50	0	16.93	0.049	17.02	0.050	16.93	0.049
20	64QAM	50	24	17.13	0.052	16.98	0.050	16.90	0.049
20	64QAM	50	50	16.94	0.049	16.87	0.049	17.00	0.050
20	64QAM	100	0	16.91	0.049	16.81	0.048	16.89	0.049



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	18.81	0.076	18.87	0.077	18.84	0.077
15	QPSK	1	37	18.88	0.077	18.79	0.076	18.84	0.077
15	QPSK	1	74	18.79	0.076	18.76	0.075	18.86	0.077
15	QPSK	36	0	18.11	0.065	18.16	0.065	18.12	0.065
15	QPSK	36	20	18.07	0.064	17.80	0.060	17.81	0.060
15	QPSK	36	39	18.17	0.066	18.14	0.065	18.22	0.066
15	QPSK	75	0	18.20	0.066	18.18	0.066	17.91	0.062
15	16QAM	1	0	17.87	0.061	17.87	0.061	17.88	0.061
15	16QAM	1	37	17.89	0.062	17.77	0.060	17.91	0.062
15	16QAM	1	74	17.81	0.060	17.76	0.060	17.82	0.061
15	16QAM	36	0	17.83	0.061	17.91	0.062	17.97	0.063
15	16QAM	36	20	17.90	0.062	17.81	0.060	17.80	0.060
15	16QAM	36	39	18.17	0.066	17.90	0.062	17.87	0.061
15	16QAM	75	0	17.90	0.062	17.80	0.060	18.00	0.063
15	64QAM	1	0	18.10	0.065	17.91	0.062	18.03	0.064
15	64QAM	1	37	17.87	0.061	17.88	0.061	17.83	0.061
15	64QAM	1	74	17.80	0.060	17.87	0.061	18.02	0.063
15	64QAM	36	0	16.83	0.048	16.91	0.049	16.87	0.049
15	64QAM	36	20	16.87	0.049	17.10	0.051	16.81	0.048
15	64QAM	36	39	16.81	0.048	16.87	0.049	17.13	0.052
15	64QAM	75	0	16.80	0.048	16.86	0.049	16.91	0.049



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	20.96	0.125	20.96	0.125	20.99	0.126
10	QPSK	1	25	20.95	0.124	20.98	0.125	20.84	0.121
10	QPSK	1	49	20.72	0.118	21.06	0.128	20.76	0.119
10	QPSK	25	0	20.15	0.104	20.33	0.108	20.28	0.107
10	QPSK	25	12	20.17	0.104	20.09	0.102	20.35	0.108
10	QPSK	25	25	20.22	0.105	20.36	0.109	20.31	0.107
10	QPSK	50	0	20.33	0.108	20.31	0.107	20.24	0.106
10	16QAM	1	0	20.06	0.101	20.02	0.100	20.06	0.101
10	16QAM	1	25	20.02	0.100	19.95	0.099	19.97	0.099
10	16QAM	1	49	19.95	0.099	20.25	0.106	20.02	0.100
10	16QAM	25	0	20.25	0.106	19.95	0.099	19.95	0.099
10	16QAM	25	12	20.33	0.108	19.95	0.099	20.02	0.100
10	16QAM	25	25	20.03	0.101	20.32	0.108	19.94	0.099
10	16QAM	50	0	20.02	0.100	20.06	0.101	20.02	0.100
10	64QAM	1	0	19.95	0.099	20.02	0.100	20.06	0.101
10	64QAM	1	25	19.96	0.099	20.02	0.100	19.97	0.099
10	64QAM	1	49	19.98	0.100	20.02	0.100	20.02	0.100
10	64QAM	25	0	19.25	0.084	19.25	0.084	19.28	0.085
10	64QAM	25	12	19.02	0.080	19.02	0.080	19.12	0.082
10	64QAM	25	25	19.02	0.080	18.95	0.079	19.09	0.081
10	64QAM	50	0	19.17	0.083	19.06	0.081	19.14	0.082



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	18.81	0.076	18.81	0.076	18.84	0.077
5	QPSK	1	12	18.80	0.076	18.83	0.076	18.69	0.074
5	QPSK	1	24	18.57	0.072	18.91	0.078	18.61	0.073
5	QPSK	12	0	18.00	0.063	18.18	0.066	18.13	0.065
5	QPSK	12	7	18.02	0.063	17.94	0.062	18.20	0.066
5	QPSK	12	13	18.07	0.064	18.21	0.066	18.16	0.065
5	QPSK	25	0	18.18	0.066	18.16	0.065	18.09	0.064
5	16QAM	1	0	17.91	0.062	17.87	0.061	17.91	0.062
5	16QAM	1	12	17.87	0.061	17.80	0.060	17.82	0.061
5	16QAM	1	24	17.80	0.060	18.10	0.065	17.87	0.061
5	16QAM	12	0	18.10	0.065	17.80	0.060	17.80	0.060
5	16QAM	12	7	18.18	0.066	17.80	0.060	17.87	0.061
5	16QAM	12	13	17.88	0.061	18.17	0.066	17.79	0.060
5	16QAM	25	0	17.87	0.061	17.91	0.062	17.87	0.061
5	64QAM	1	0	17.80	0.060	17.87	0.061	17.91	0.062
5	64QAM	1	12	17.81	0.060	17.87	0.061	17.82	0.061
5	64QAM	1	24	17.83	0.061	17.87	0.061	17.87	0.061
5	64QAM	12	0	17.10	0.051	17.10	0.051	17.13	0.052
5	64QAM	12	7	16.87	0.049	16.87	0.049	16.97	0.050
5	64QAM	12	13	16.87	0.049	16.80	0.048	16.94	0.049
5	64QAM	25	0	17.02	0.050	16.91	0.049	16.99	0.050



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	20.96	0.125	21.01	0.126	20.91	0.123
20	QPSK	1	49	20.93	0.124	20.92	0.124	20.96	0.125
20	QPSK	1	99	20.95	0.124	20.92	0.124	20.92	0.124
20	QPSK	50	0	20.12	0.103	20.28	0.107	20.19	0.104
20	QPSK	50	24	20.23	0.105	20.22	0.105	20.08	0.102
20	QPSK	50	50	20.19	0.104	20.02	0.100	20.15	0.104
20	QPSK	100	0	20.16	0.104	20.08	0.102	20.06	0.101
20	16QAM	1	0	20.13	0.103	19.98	0.100	20.01	0.100
20	16QAM	1	49	20.03	0.101	20.08	0.102	19.98	0.100
20	16QAM	1	99	20.01	0.100	20.01	0.100	20.09	0.102
20	16QAM	50	0	19.62	0.092	19.66	0.092	19.56	0.090
20	16QAM	50	24	19.57	0.091	19.71	0.094	19.66	0.092
20	16QAM	50	50	19.56	0.090	19.58	0.091	19.61	0.091
20	16QAM	100	0	19.56	0.090	19.56	0.090	19.56	0.090
20	64QAM	1	0	19.82	0.096	19.63	0.092	19.52	0.090
20	64QAM	1	49	19.81	0.096	19.53	0.090	19.62	0.092
20	64QAM	1	99	19.75	0.094	19.61	0.091	19.51	0.089
20	64QAM	50	0	19.54	0.090	19.61	0.091	19.66	0.092
20	64QAM	50	24	19.52	0.090	19.64	0.092	19.61	0.091
20	64QAM	50	50	19.62	0.092	19.63	0.092	19.57	0.091
20	64QAM	100	0	19.48	0.089	19.61	0.091	19.59	0.091





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	20.92	0.124	20.76	0.119	20.87	0.122
15	QPSK	1	37	20.91	0.123	20.87	0.122	20.93	0.124
15	QPSK	1	74	20.85	0.122	20.81	0.121	20.91	0.123
15	QPSK	36	0	20.06	0.101	20.13	0.103	20.19	0.104
15	QPSK	36	20	20.26	0.106	20.06	0.101	20.08	0.102
15	QPSK	36	39	20.07	0.102	19.99	0.100	20.25	0.106
15	QPSK	75	0	20.06	0.101	20.06	0.101	20.02	0.100
15	16QAM	1	0	19.95	0.099	20.07	0.102	20.02	0.100
15	16QAM	1	37	20.02	0.100	19.96	0.099	20.15	0.104
15	16QAM	1	74	20.02	0.100	19.97	0.099	20.03	0.101
15	16QAM	36	0	19.53	0.090	19.58	0.091	19.52	0.090
15	16QAM	36	20	19.49	0.089	19.53	0.090	19.55	0.090
15	16QAM	36	39	19.49	0.089	19.51	0.089	19.53	0.090
15	16QAM	75	0	19.59	0.091	19.63	0.092	19.66	0.092
15	64QAM	1	0	19.56	0.090	19.57	0.091	19.59	0.091
15	64QAM	1	37	19.87	0.097	19.55	0.090	19.69	0.093
15	64QAM	1	74	19.67	0.093	19.62	0.092	19.64	0.092
15	64QAM	36	0	19.51	0.089	19.63	0.092	19.69	0.093
15	64QAM	36	20	19.51	0.089	19.67	0.093	19.67	0.093
15	64QAM	36	39	19.58	0.091	19.64	0.092	19.66	0.092
15	64QAM	75	0	19.51	0.089	19.62	0.092	19.56	0.090



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	20.92	0.124	20.97	0.125	20.72	0.118
10	QPSK	1	25	20.65	0.116	20.96	0.125	20.72	0.118
10	QPSK	1	49	20.58	0.114	20.78	0.120	20.67	0.117
10	QPSK	25	0	20.28	0.107	20.28	0.107	20.26	0.106
10	QPSK	25	12	20.12	0.103	20.06	0.101	19.99	0.100
10	QPSK	25	25	20.06	0.101	19.97	0.099	20.12	0.103
10	QPSK	50	0	19.96	0.099	20.06	0.101	20.26	0.106
10	16QAM	1	0	20.09	0.102	20.07	0.102	20.25	0.106
10	16QAM	1	25	20.09	0.102	20.09	0.102	20.14	0.103
10	16QAM	1	49	20.03	0.101	19.98	0.100	20.07	0.102
10	16QAM	25	0	19.47	0.089	19.62	0.092	19.67	0.093
10	16QAM	25	12	19.49	0.089	19.61	0.091	19.71	0.094
10	16QAM	25	25	19.43	0.088	19.56	0.090	19.56	0.090
10	16QAM	50	0	19.51	0.089	19.63	0.092	19.61	0.091
10	64QAM	1	0	19.82	0.096	19.63	0.092	19.61	0.091
10	64QAM	1	25	19.71	0.094	19.66	0.092	19.65	0.092
10	64QAM	1	49	19.73	0.094	19.61	0.091	19.65	0.092
10	64QAM	25	0	19.66	0.092	19.55	0.090	19.72	0.094
10	64QAM	25	12	19.67	0.093	19.65	0.092	19.64	0.092
10	64QAM	25	25	19.66	0.092	19.71	0.094	19.61	0.091
10	64QAM	50	0	19.57	0.091	19.67	0.093	19.69	0.093



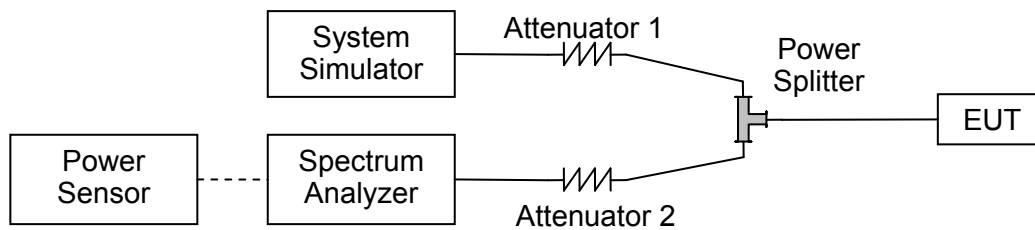
LTE Band38				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37775		38000		38225	
Frequency (MHz)				2572.5		2595		2617.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	20.59	0.115	20.95	0.124	20.97	0.125
5	QPSK	1	12	20.65	0.116	20.81	0.121	20.66	0.116
5	QPSK	1	24	20.67	0.117	20.99	0.126	20.68	0.117
5	QPSK	12	0	20.06	0.101	20.16	0.104	20.21	0.105
5	QPSK	12	7	20.05	0.101	20.06	0.101	20.02	0.100
5	QPSK	12	13	20.15	0.104	19.95	0.099	20.06	0.101
5	QPSK	25	0	20.18	0.104	20.02	0.100	20.26	0.106
5	16QAM	1	0	20.06	0.101	19.93	0.098	20.07	0.102
5	16QAM	1	12	19.98	0.100	19.98	0.100	20.13	0.103
5	16QAM	1	24	19.96	0.099	19.95	0.099	20.04	0.101
5	16QAM	12	0	19.58	0.091	19.56	0.090	19.65	0.092
5	16QAM	12	7	19.55	0.090	19.58	0.091	19.69	0.093
5	16QAM	12	13	19.48	0.089	19.55	0.090	19.43	0.088
5	16QAM	25	0	19.53	0.090	19.57	0.091	19.56	0.090
5	64QAM	1	0	19.62	0.092	19.58	0.091	19.58	0.091
5	64QAM	1	12	19.71	0.094	19.61	0.091	19.72	0.094
5	64QAM	1	24	19.57	0.091	19.59	0.091	19.58	0.091
5	64QAM	12	0	19.52	0.090	19.51	0.089	19.59	0.091
5	64QAM	12	7	19.61	0.091	19.63	0.092	19.49	0.089
5	64QAM	12	13	19.54	0.090	19.49	0.089	19.55	0.090
5	64QAM	25	0	19.69	0.093	19.61	0.091	19.65	0.092

## 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	1.09	1.33
	Low	16QAM	1.10	1.29
	Low	64QAM	1.10	1.29
	Mid	QPSK	1.10	1.29
	Mid	16QAM	1.10	1.28
	Mid	64QAM	1.10	1.27
	High	QPSK	1.10	1.31
	High	16QAM	1.10	1.28
	High	64QAM	1.10	1.28
3	Low	QPSK	2.72	3.04
	Low	16QAM	2.72	3.12
	Low	64QAM	2.73	3.12
	Mid	QPSK	2.72	3.06
	Mid	16QAM	2.72	3.10
	Mid	64QAM	2.72	3.05
	High	QPSK	2.71	3.06
	High	16QAM	2.72	3.16
	High	64QAM	2.73	3.12
5	Low	QPSK	4.51	5.22
	Low	16QAM	4.52	5.45
	Low	64QAM	4.51	5.43
	Mid	QPSK	4.52	5.29
	Mid	16QAM	4.52	5.41
	Mid	64QAM	4.51	5.41
	High	QPSK	4.52	5.55
	High	16QAM	4.51	5.36
	High	64QAM	4.52	5.35



10	Low	QPSK	9.03	10.14
	Low	16QAM	8.98	10.04
	Low	64QAM	9.01	9.98
	Mid	QPSK	9.01	10.21
	Mid	16QAM	8.97	10.04
	Mid	64QAM	9.00	9.96
	High	QPSK	9.01	10.18
	High	16QAM	8.99	10.05
	High	64QAM	9.00	10.05
15	Low	QPSK	13.49	15.32
	Low	16QAM	13.52	15.37
	Low	64QAM	13.50	15.18
	Mid	QPSK	13.51	15.44
	Mid	16QAM	13.52	15.62
	Mid	64QAM	13.50	15.45
	High	QPSK	13.48	15.23
	High	16QAM	13.52	15.64
	High	64QAM	13.51	15.70
20	Low	QPSK	18.00	20.34
	Low	16QAM	17.98	20.19
	Low	64QAM	18.00	20.30
	Mid	QPSK	18.03	20.30
	Mid	16QAM	18.03	20.30
	Mid	64QAM	18.05	19.99
	High	QPSK	18.02	19.98
	High	16QAM	17.98	19.64
	High	64QAM	18.00	20.14



LTE Band 4				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.31
	Low	16QAM	1.10	1.29
	Low	64QAM	1.10	1.27
	Mid	QPSK	1.10	1.30
	Mid	16QAM	1.10	1.31
	Mid	64QAM	1.10	1.28
	High	QPSK	1.10	1.29
	High	16QAM	1.10	1.30
	High	64QAM	1.10	1.28
3	Low	QPSK	2.72	3.08
	Low	16QAM	2.71	3.12
	Low	64QAM	2.73	3.16
	Mid	QPSK	2.71	3.04
	Mid	16QAM	2.71	3.10
	Mid	64QAM	2.73	3.16
	High	QPSK	2.71	3.06
	High	16QAM	2.72	3.16
	High	64QAM	2.73	3.09
5	Low	QPSK	4.52	5.34
	Low	16QAM	4.51	5.34
	Low	64QAM	4.51	5.35
	Mid	QPSK	4.51	5.42
	Mid	16QAM	4.51	5.26
	Mid	64QAM	4.50	5.35
	High	QPSK	4.51	5.42
	High	16QAM	4.52	5.40
	High	64QAM	4.51	5.37



10	Low	QPSK	8.99	10.07
	Low	16QAM	8.99	9.96
	Low	64QAM	8.99	9.90
	Mid	QPSK	9.02	10.20
	Mid	16QAM	8.98	10.11
	Mid	64QAM	9.00	9.89
	High	QPSK	9.05	10.13
	High	16QAM	8.99	9.90
	High	64QAM	9.00	9.99
15	Low	QPSK	13.44	14.83
	Low	16QAM	13.50	15.31
	Low	64QAM	13.48	15.32
	Mid	QPSK	13.52	15.39
	Mid	16QAM	13.51	15.51
	Mid	64QAM	13.52	15.51
	High	QPSK	13.49	15.46
	High	16QAM	13.50	15.08
	High	64QAM	13.48	15.62
20	Low	QPSK	17.98	19.89
	Low	16QAM	18.02	20.23
	Low	64QAM	17.99	20.35
	Mid	QPSK	18.00	20.33
	Mid	16QAM	18.02	20.36
	Mid	64QAM	18.01	20.32
	High	QPSK	18.03	20.44
	High	16QAM	18.05	20.15
	High	64QAM	18.01	20.43





LTE Band 5				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.29
	Low	16QAM	1.10	1.26
	Low	64QAM	1.10	1.29
	Mid	QPSK	1.10	1.31
	Mid	16QAM	1.10	1.29
	Mid	64QAM	1.10	1.28
	High	QPSK	1.10	1.30
	High	16QAM	1.10	1.29
	High	64QAM	1.10	1.29
3	Low	QPSK	2.71	3.05
	Low	16QAM	2.71	3.15
	Low	64QAM	2.71	3.08
	Mid	QPSK	2.71	3.06
	Mid	16QAM	2.72	3.15
	Mid	64QAM	2.72	3.11
	High	QPSK	2.72	3.06
	High	16QAM	2.71	3.10
	High	64QAM	2.73	3.09
5	Low	QPSK	4.51	5.24
	Low	16QAM	4.51	5.39
	Low	64QAM	4.50	5.26
	Mid	QPSK	4.50	5.23
	Mid	16QAM	4.52	5.56
	Mid	64QAM	4.50	5.41
	High	QPSK	4.52	5.35
	High	16QAM	4.52	5.42
	High	64QAM	4.50	5.27
10	Low	QPSK	9.01	10.14
	Low	16QAM	8.96	9.95
	Low	64QAM	8.99	9.94
	Mid	QPSK	8.97	10.07
	Mid	16QAM	8.98	10.10
	Mid	64QAM	9.00	9.93
	High	QPSK	9.01	10.13
	High	16QAM	8.96	10.02
	High	64QAM	8.99	9.98



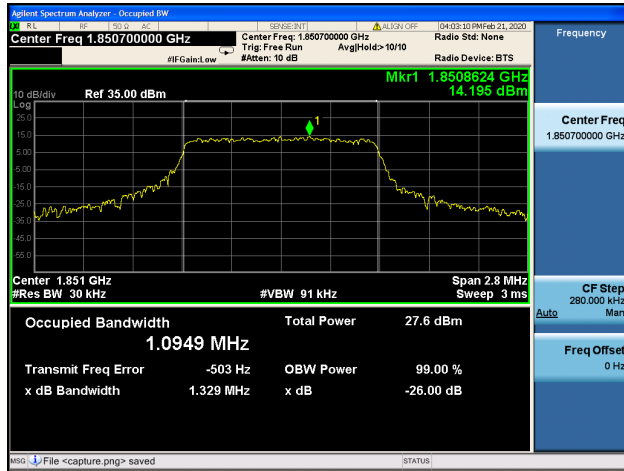
LTE Band 7				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.51	5.43
	Low	16QAM	4.51	5.43
	Low	64QAM	4.51	5.49
	Mid	QPSK	4.52	5.32
	Mid	16QAM	4.51	5.37
	Mid	64QAM	4.51	5.36
	High	QPSK	4.52	5.37
	High	16QAM	4.52	5.46
	High	64QAM	4.51	5.43
10	Low	QPSK	9.02	10.15
	Low	16QAM	8.98	10.02
	Low	64QAM	9.00	9.92
	Mid	QPSK	9.03	10.15
	Mid	16QAM	8.98	10.02
	Mid	64QAM	9.00	10.01
	High	QPSK	9.03	10.20
	High	16QAM	8.98	10.08
	High	64QAM	9.00	9.97
15	Low	QPSK	13.51	15.46
	Low	16QAM	13.52	15.47
	Low	64QAM	13.52	15.65
	Mid	QPSK	13.49	14.86
	Mid	16QAM	13.51	15.33
	Mid	64QAM	13.50	15.34
	High	QPSK	13.49	15.31
	High	16QAM	13.51	15.81
	High	64QAM	13.52	15.47
20	Low	QPSK	17.96	19.64
	Low	16QAM	18.03	20.11
	Low	64QAM	18.02	20.49
	Mid	QPSK	18.01	20.27
	Mid	16QAM	17.98	20.00
	Mid	64QAM	18.02	20.36
	High	QPSK	18.00	20.01
	High	16QAM	18.06	20.33
	High	64QAM	18.03	20.57



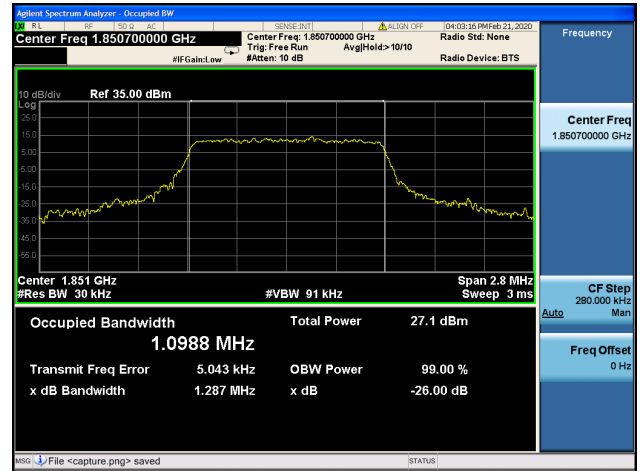
LTE Band 38				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.46	4.74
	Low	16QAM	4.51	5.32
	Low	64QAM	4.50	5.35
	Mid	QPSK	4.51	5.00
	Mid	16QAM	4.50	5.32
	Mid	64QAM	4.50	5.26
	High	QPSK	4.50	5.11
	High	16QAM	4.50	5.23
	High	64QAM	4.50	5.32
10	Low	QPSK	9.00	10.23
	Low	16QAM	8.97	9.65
	Low	64QAM	8.98	9.96
	Mid	QPSK	9.01	10.05
	Mid	16QAM	8.97	9.83
	Mid	64QAM	8.98	9.95
	High	QPSK	8.98	10.08
	High	16QAM	8.97	9.90
	High	64QAM	8.99	9.90
15	Low	QPSK	13.50	14.85
	Low	16QAM	13.47	15.00
	Low	64QAM	13.49	14.83
	Mid	QPSK	13.51	14.87
	Mid	16QAM	13.47	14.87
	Mid	64QAM	13.48	15.03
	High	QPSK	13.46	14.99
	High	16QAM	13.52	15.15
	High	64QAM	13.49	14.86
20	Low	QPSK	18.00	19.90
	Low	16QAM	17.96	20.18
	Low	64QAM	17.98	19.87
	Mid	QPSK	17.98	19.82
	Mid	16QAM	18.00	20.13
	Mid	64QAM	18.02	20.08
	High	QPSK	17.98	19.64
	High	16QAM	18.00	20.13
	High	64QAM	18.00	20.20



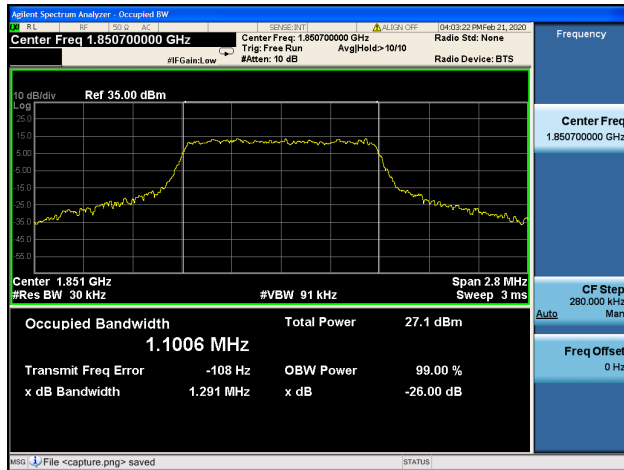
**Band2 / 1.4MHz / Low CH / QPSK**



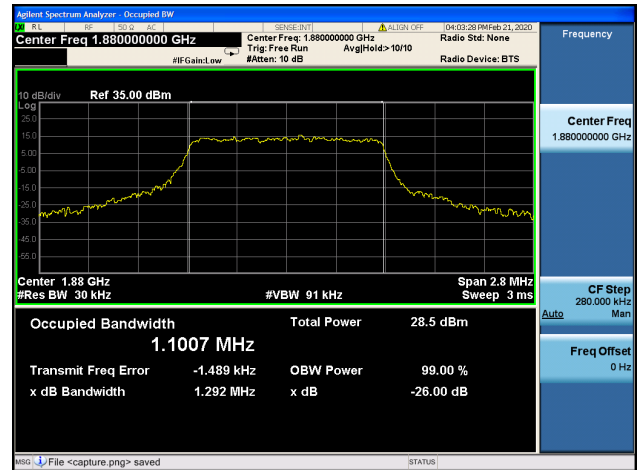
**Band2 / 1.4MHz / Low CH / 16QAM**



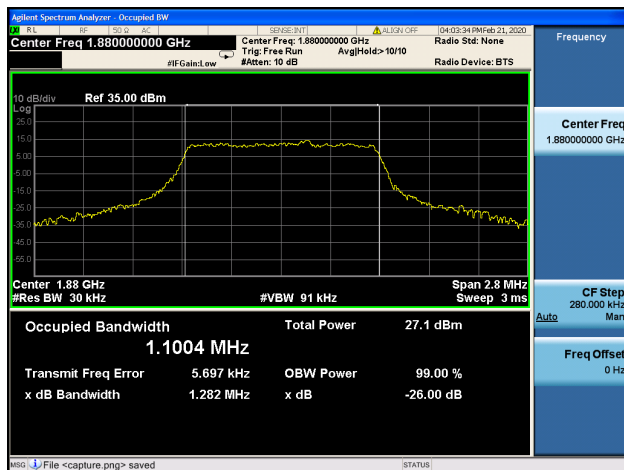
**Band2 / 1.4MHz / Low CH / 64QAM**



**Band2 / 1.4MHz / Mid CH / QPSK**



**Band2 / 1.4MHz / Mid CH / 16QAM**

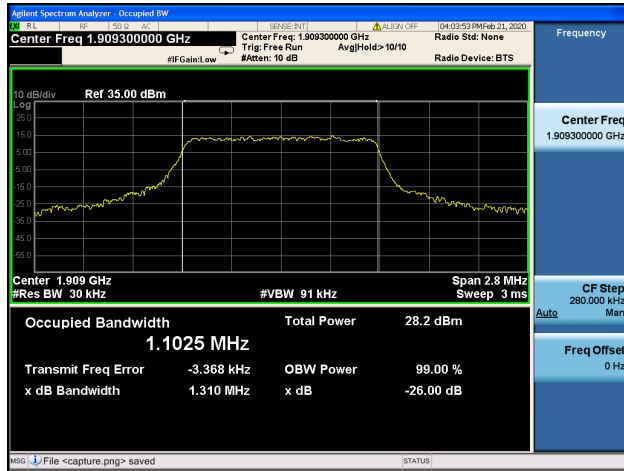


**Band2 / 1.4MHz / Mid CH / 64QAM**

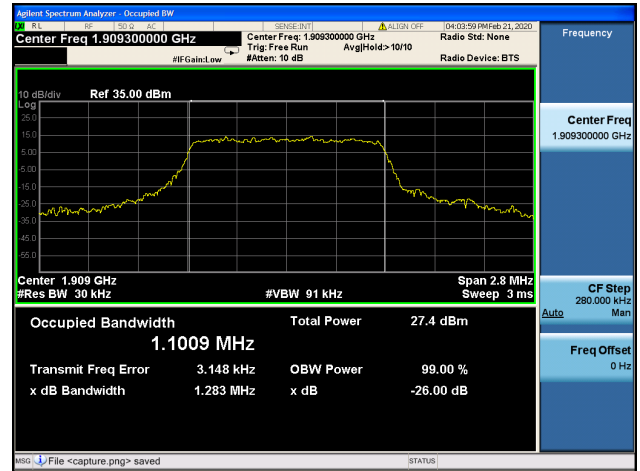




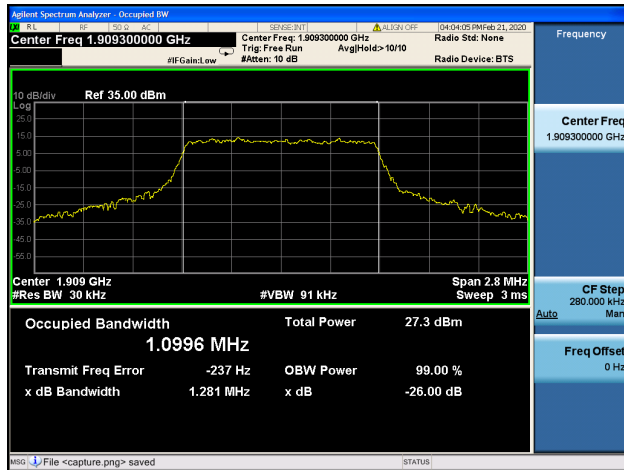
**Band2 / 1.4MHz / High CH / QPSK**



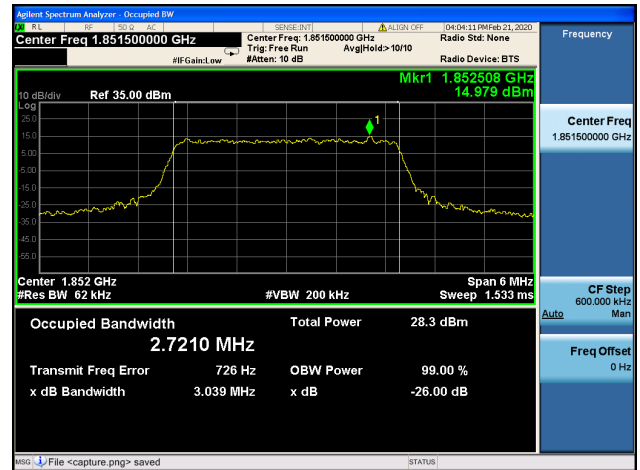
**Band2 / 1.4MHz / High CH / 16QAM**



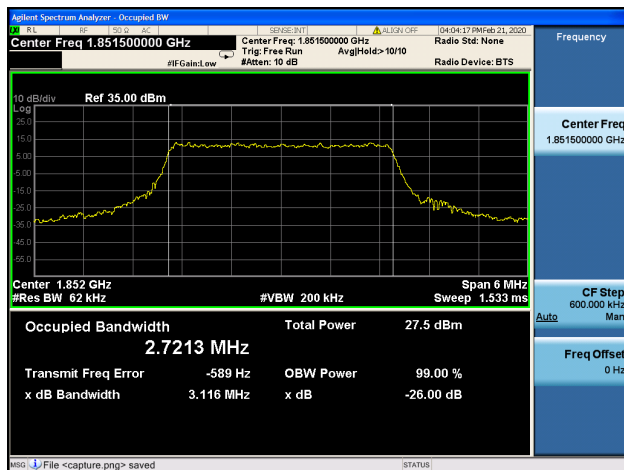
**Band2 / 1.4MHz / High CH / 64QAM**



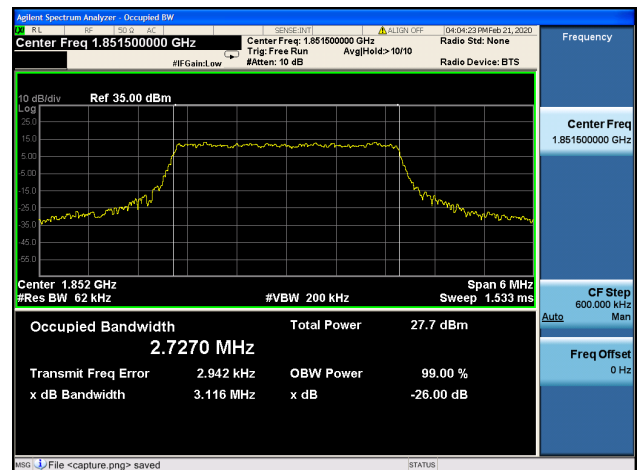
**Band2 / 3MHz / Low CH / QPSK**



**Band2 / 3MHz / Low CH / 16QAM**

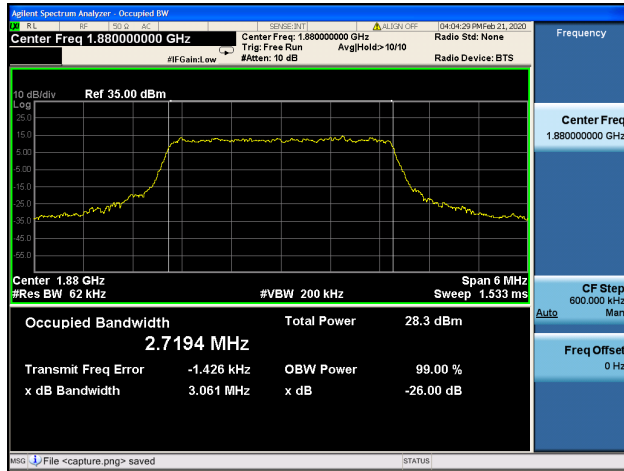


**Band2 / 3MHz / Low CH / 64QAM**

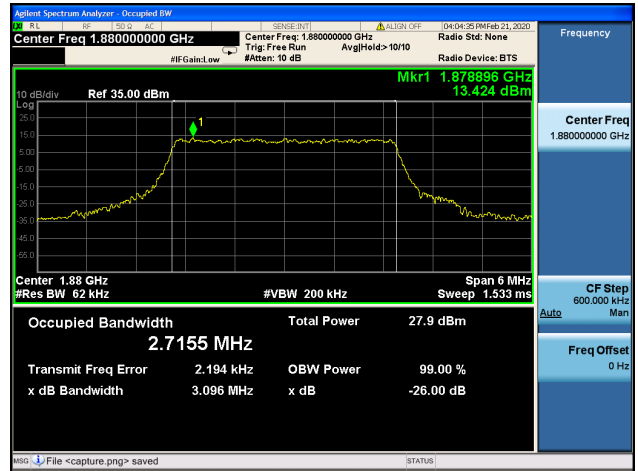




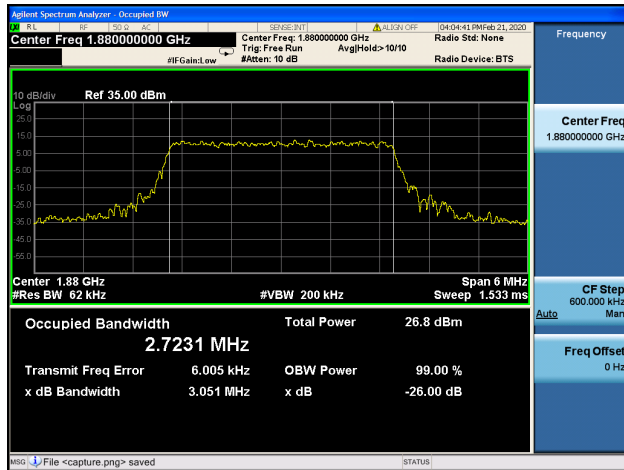
**Band2 / 3MHz / Mid CH / QPSK**



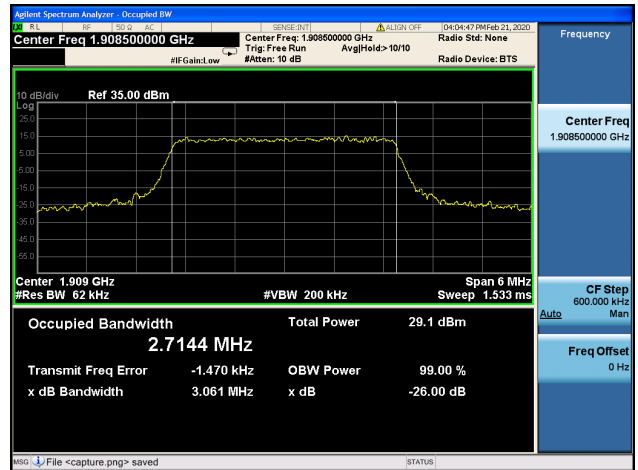
**Band2 / 3MHz / Mid CH / 16QAM**



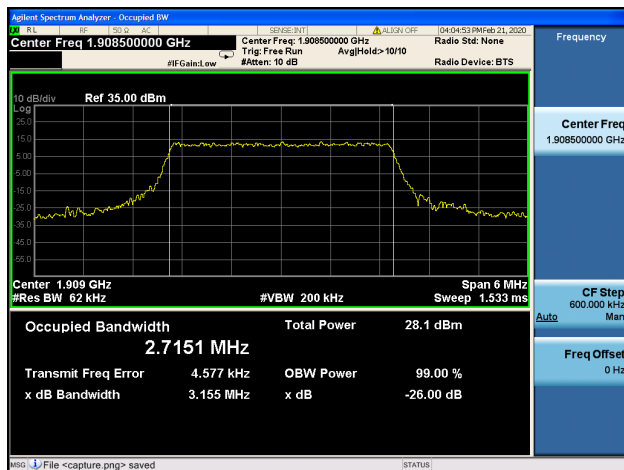
**Band2 / 3MHz / Mid CH / 64QAM**



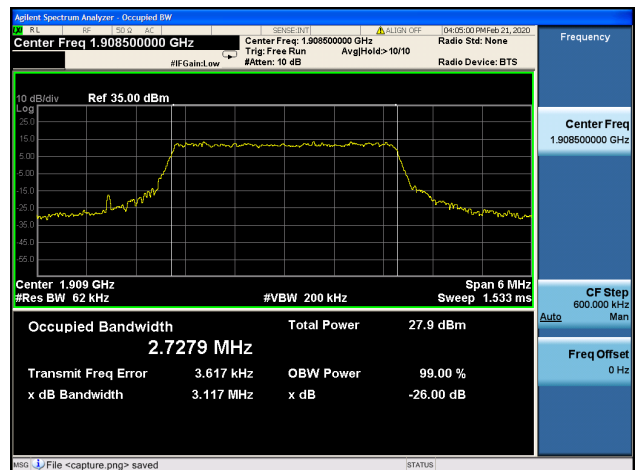
**Band2 / 3MHz / High CH / QPSK**

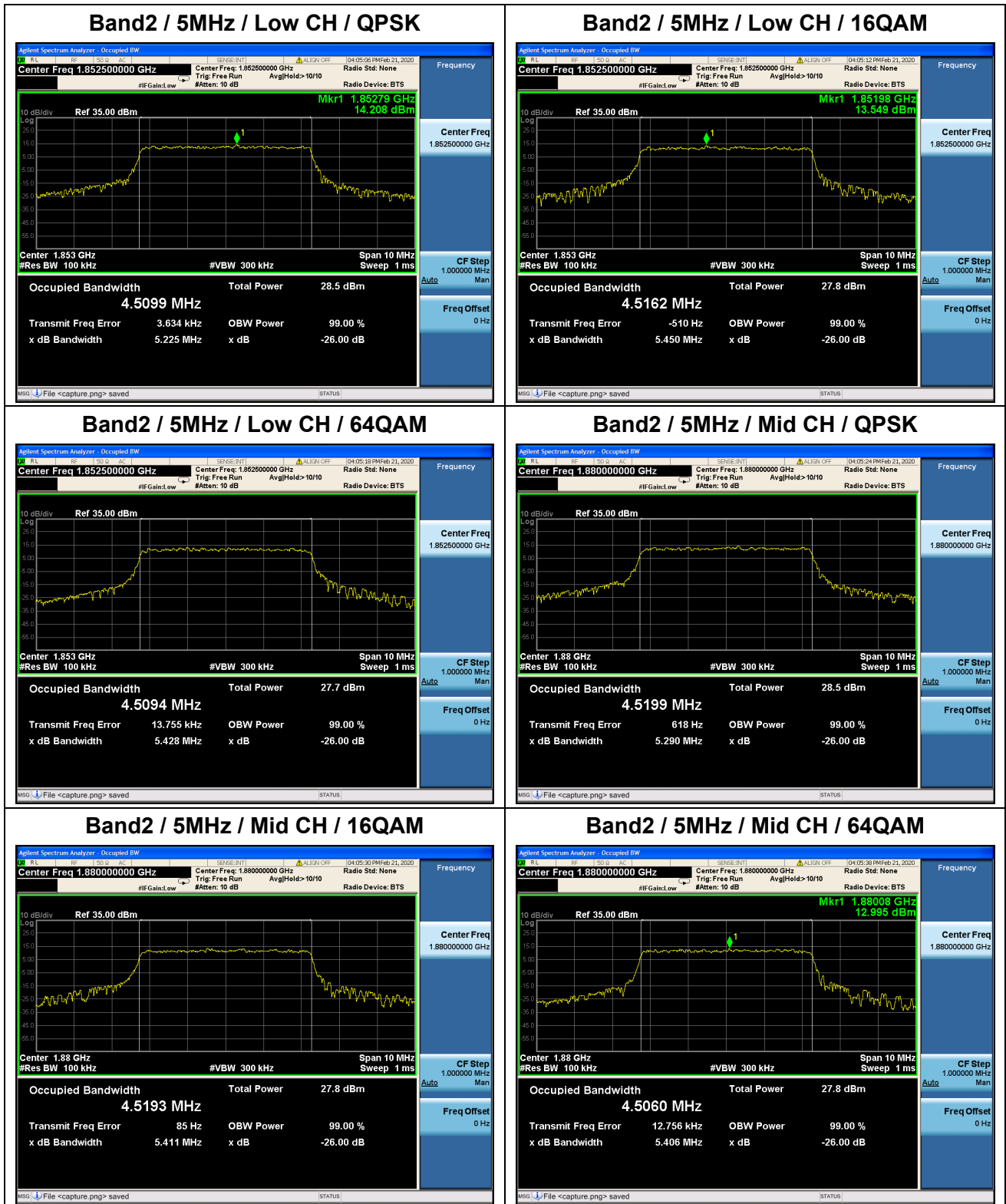


**Band2 / 3MHz / High CH / 16QAM**



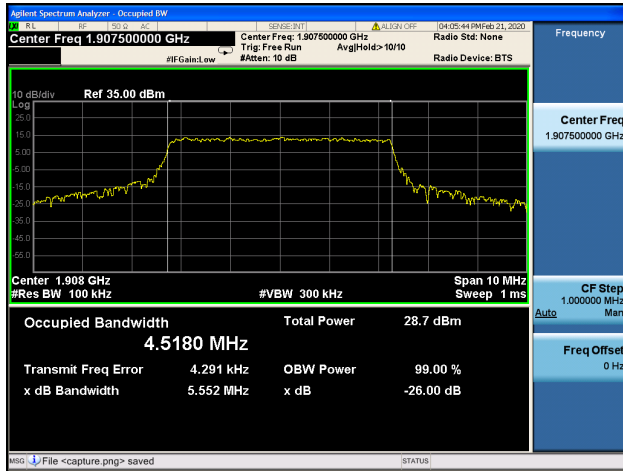
**Band2 / 3MHz / High CH / 64QAM**



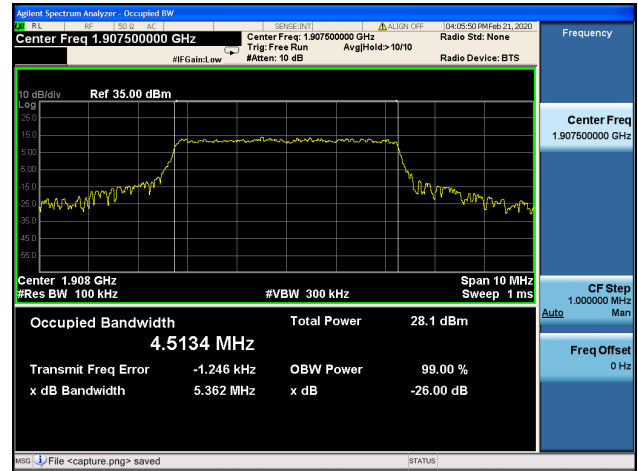




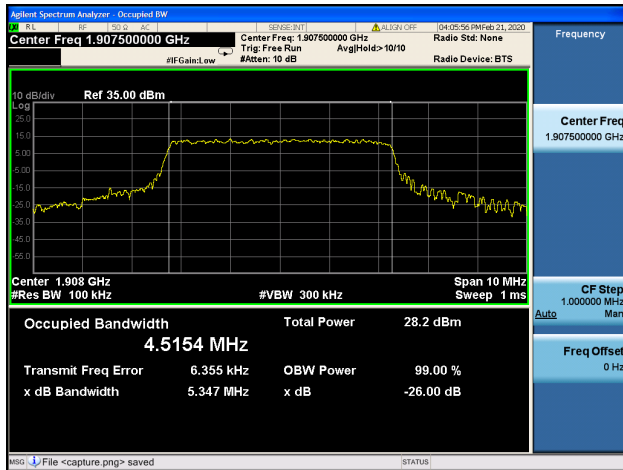
**Band2 / 5MHz / High CH / QPSK**



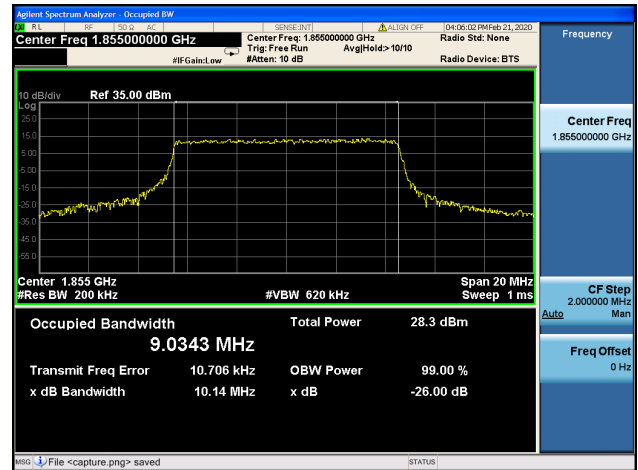
**Band2 / 5MHz / High CH / 16QAM**



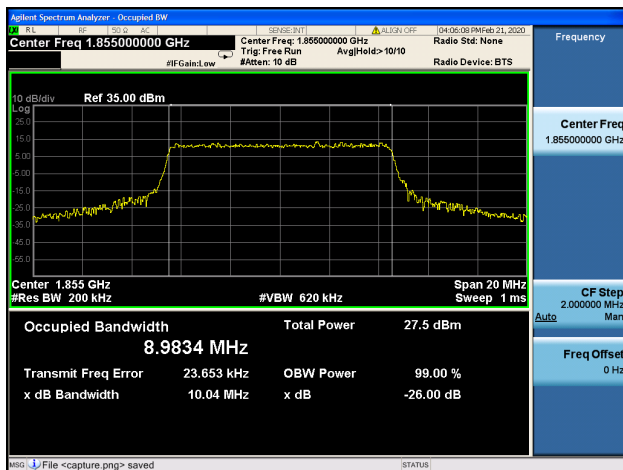
**Band2 / 5MHz / High CH / 64QAM**



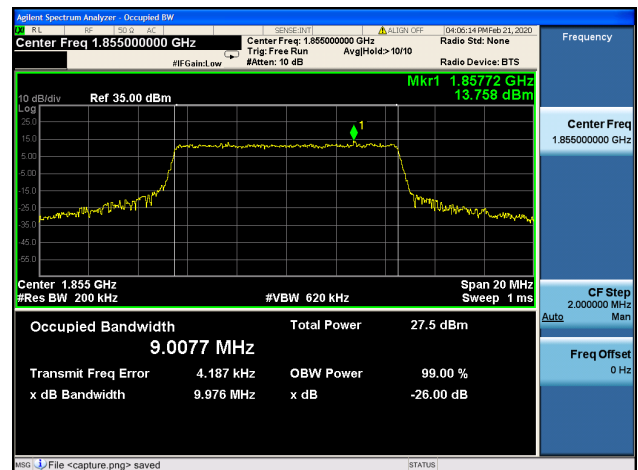
**Band2 / 10MHz / Low CH / QPSK**



**Band2 / 10MHz / Low CH / 16QAM**



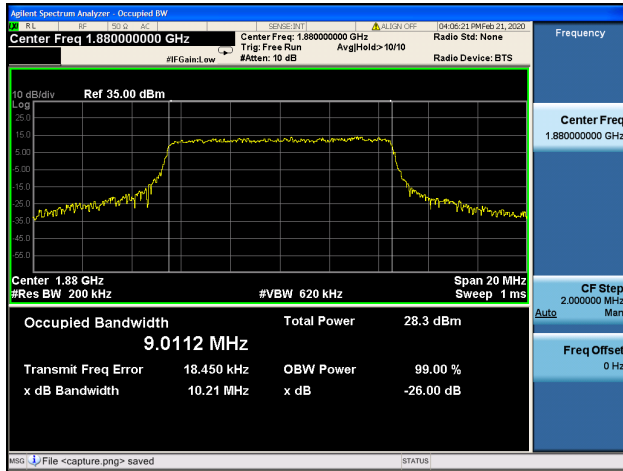
**Band2 / 10MHz / Low CH / 64QAM**



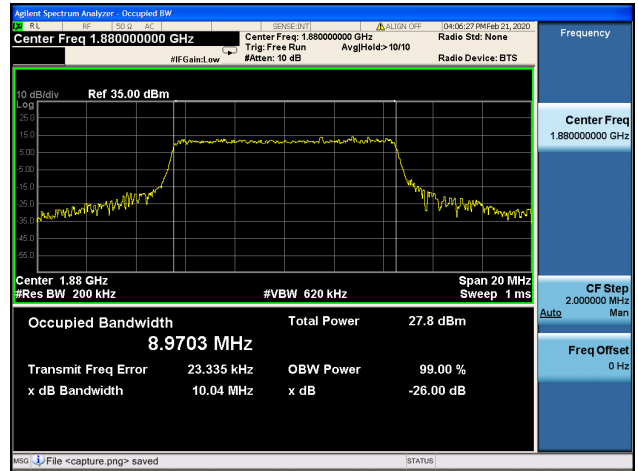




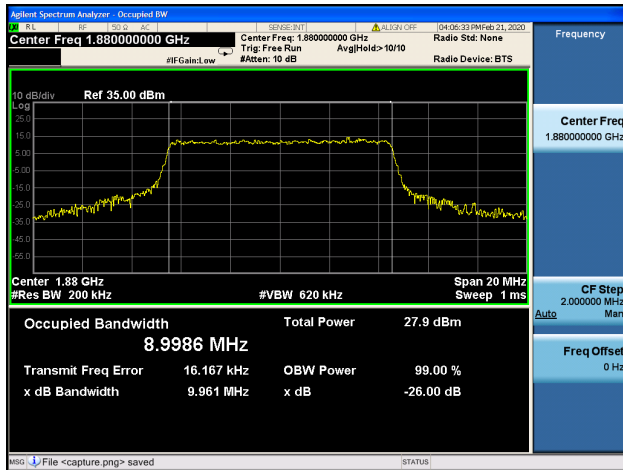
**Band2 / 10MHz / Mid CH / QPSK**



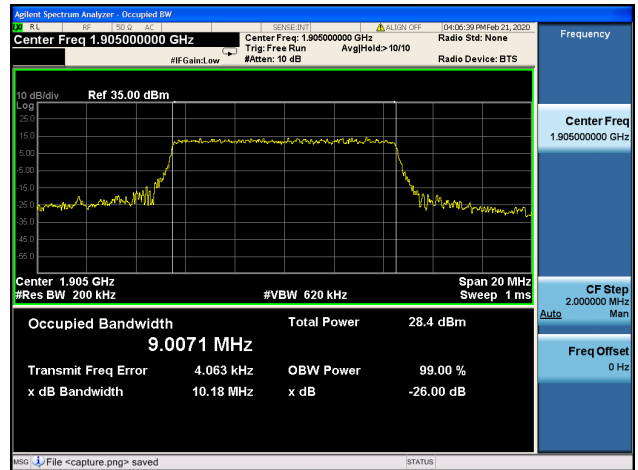
**Band2 / 10MHz / Mid CH / 16QAM**



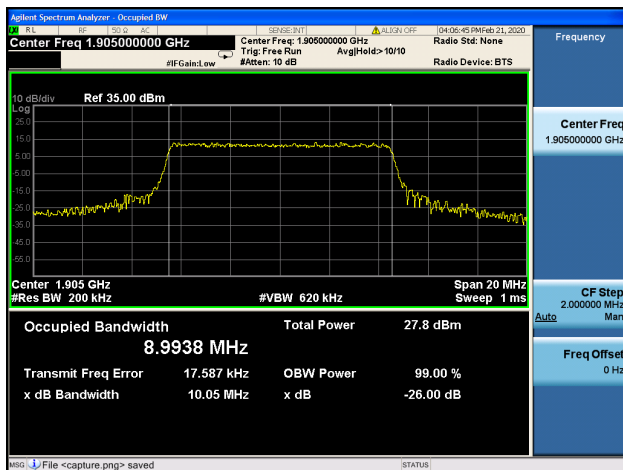
**Band2 / 10MHz / Mid CH / 64QAM**



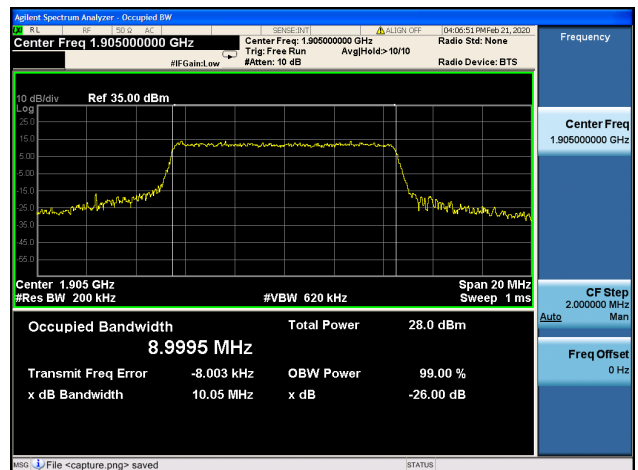
**Band2 / 10MHz / High CH / QPSK**



**Band2 / 10MHz / High CH / 16QAM**

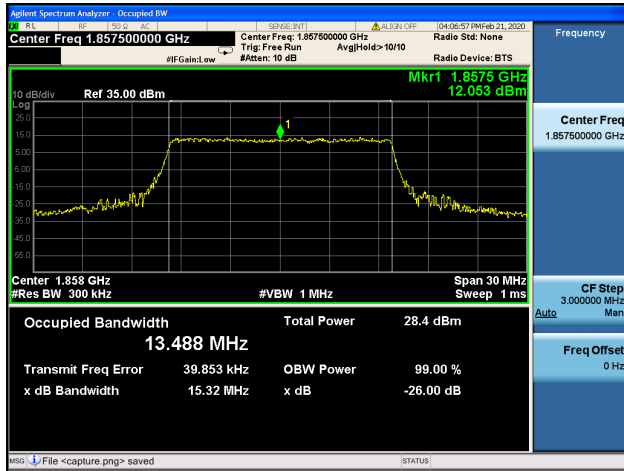


**Band2 / 10MHz / High CH / 64QAM**

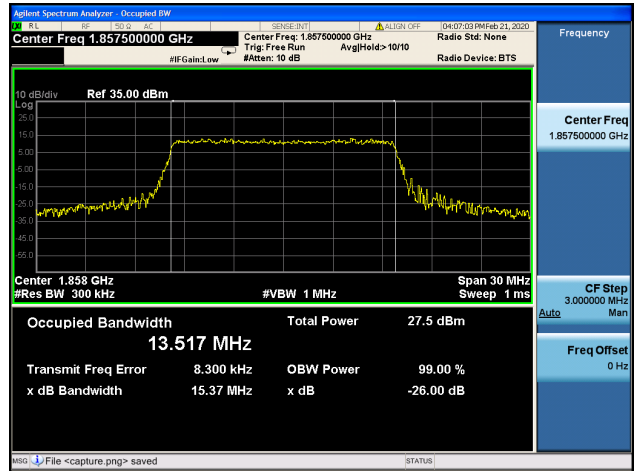




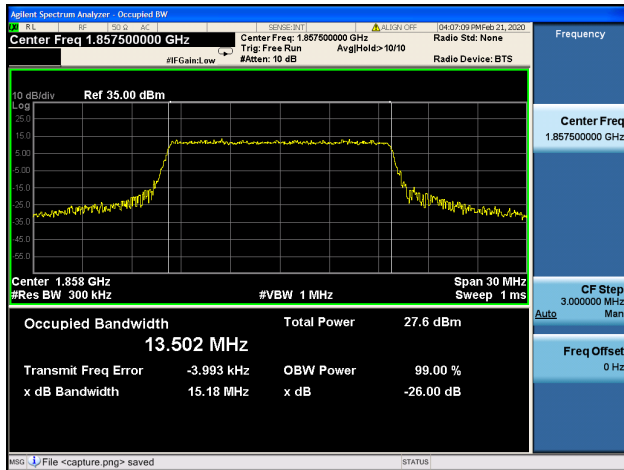
**Band2 / 15MHz / Low CH / QPSK**



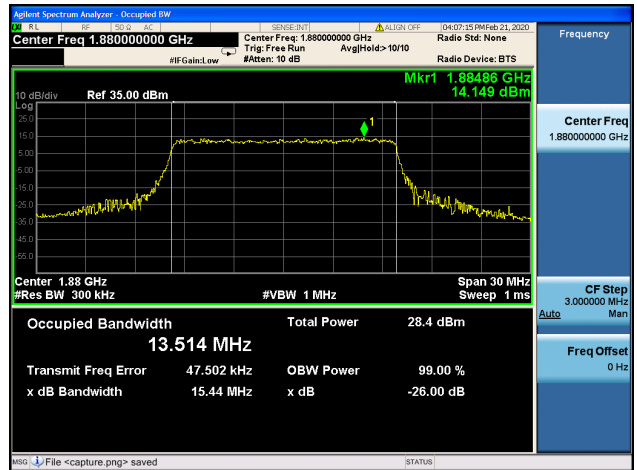
**Band2 / 15MHz / Low CH / 16QAM**



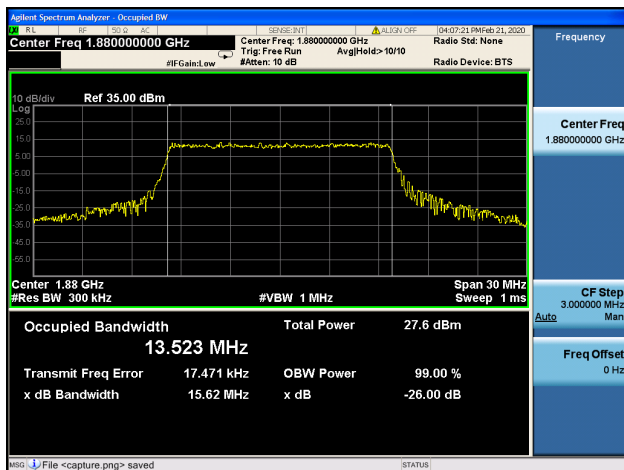
**Band2 / 15MHz / Low CH / 64QAM**



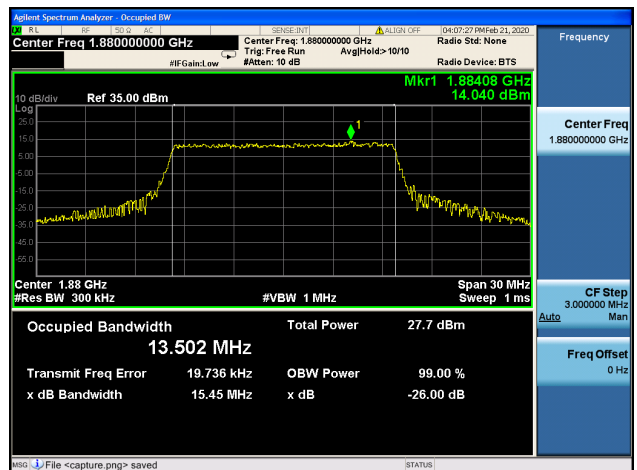
**Band2 / 15MHz / Mid CH / QPSK**



**Band2 / 15MHz / Mid CH / 16QAM**

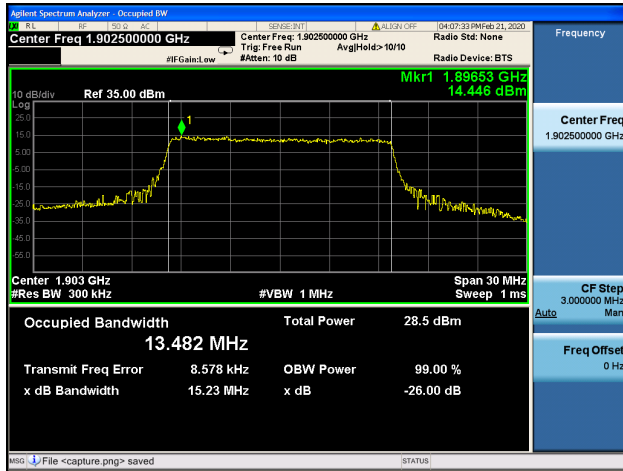


**Band2 / 15MHz / Mid CH / 64QAM**

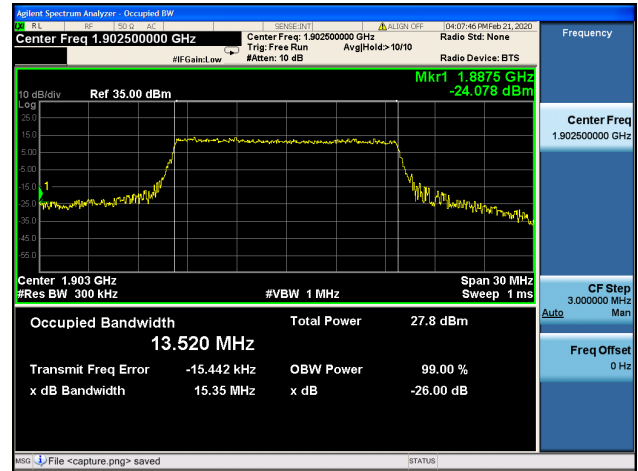




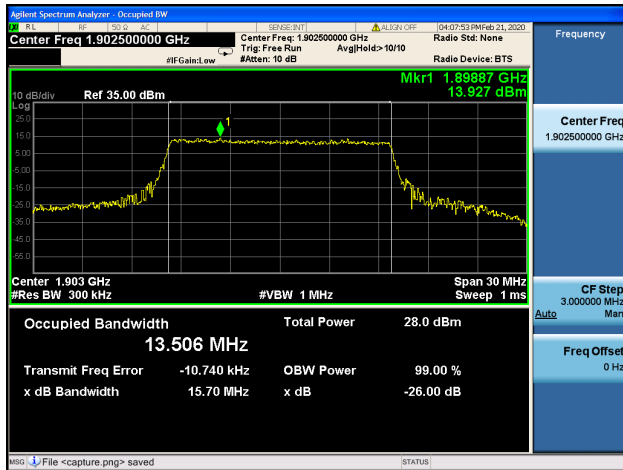
**Band2 / 15MHz / High CH / QPSK**



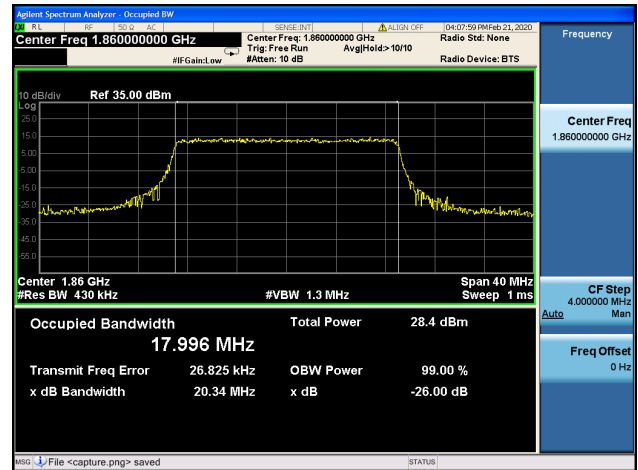
**Band2 / 15MHz / High CH / 16QAM**



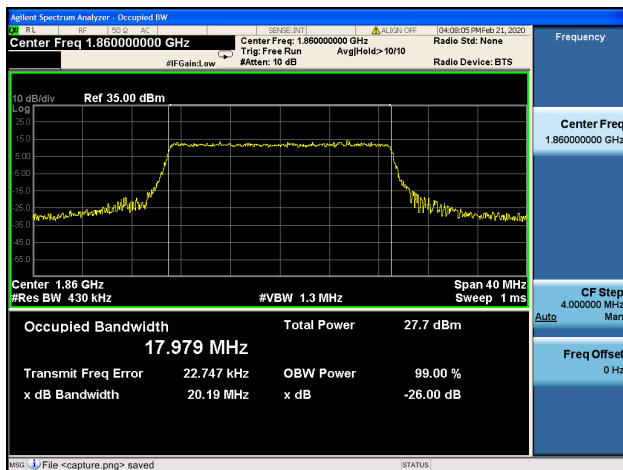
**Band2 / 15MHz / High CH / 64QAM**



**Band2 / 20MHz / Low CH / QPSK**



**Band2 / 20MHz / Low CH / 16QAM**



**Band2 / 20MHz / Low CH / 64QAM**

