



# TEST REPORT

**APPLICANT** : BLU Products, Inc.

**PRODUCT NAME** : Smart Phone

**MODEL NAME** : G51 PLUS, M7i

**BRAND NAME** : BLU, BOLD

**FCC ID** : YHLBLUG51PS

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

**RECEIPT DATE** : 2021-04-01

**TEST DATE** : 2021-04-08 to 2021-04-30

**ISSUE DATE** : 2021-05-24

Edited by: Peng Mi  
Peng Mi (Rapporteur)

Approved by: Peng Huarui  
Peng Huarui (Supervisor)

**NOTE:** This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.





# DIRECTORY

- 1. Technical Information ..... 3**
- 1.1. Applicant and Manufacturer Information ..... 3**
- 1.2. Equipment Under Test (EUT) Description ..... 3**
- 1.3. Maximum E.R.P./E.I.R.P. and Emission Designator ..... 6**
- 1.4. Test Standards and Results ..... 8**
- 1.5. Environmental Conditions ..... 9**
- 2. 47 CFR Part 2, Part 22H, Part 24E, Part 27 D& H&L&M Requirements ..... 10**
- 2.1. Transmitter Conducted Output Power and E.R.P./E.I.R.P. .... 10**
- 2.2. Occupied Bandwidth ..... 72**
- 2.3. Frequency Stability ..... 127**
- 2.4. Peak to Average Ratio ..... 132**
- 2.5. Conducted Spurious Emissions ..... 155**
- 2.6. Band Edge ..... 213**
- 2.7. Radiated Spurious Emissions ..... 239**
- Annex A Test Uncertainty ..... 263**
- Annex B Testing Laboratory Information ..... 264**

Change History		
Version	Date	Reason for change
1.0	2021-05-11	First edition
2.0	2021-05-24	Add brand name, model name and replaced the test report version 1.0.



# 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>Manufacturer Address:</b>	10814 NW 33rd St # 100 Doral, FL 33172,USA

## 1.2. Equipment Under Test (EUT) Description

<b>Product Name:</b>	Smart Phone	
<b>Serial No.:</b>	(N/A, marked #1 by test site)	
<b>Hardware Version:</b>	V1.0	
<b>Software Version:</b>	BLU_G0510WW_V11.0.02.01_GENERIC(user)	
<b>Modulation Type:</b>	QPSK, 16QAM, 64QAM	
<b>Carrier Aggregation:</b>	Not support	
<b>Operation Band:</b>	Band 2 / 4 / 5 / 7 / 12 / 17 / 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–2570MHz
		Rx: 2620MHz–2690MHz
	LTE Band 12	Tx: 699MHz–716MHz
		Rx: 729MHz–746MHz
	LTE Band 17	Tx: 704MHz–716MHz
		Rx: 734MHz–746MHz
	LTE Band 38	Tx: 2570MHz–2620MHz
		Rx: 2570MHz–2620MHz



<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	5 MHz, 10MHz, 15MHz, 20MHz
	LTE Band 12	1.4MHz, 3 MHz, 5 MHz, 10MHz
	LTE Band 17	5 MHz, 10MHz
	LTE Band 38	5 MHz, 10MHz, 15MHz, 20MHz
<b>Antenna Type:</b>	Fixed Internal Antenna	
<b>Antenna Gain:</b>	LTE Band 2	0.7dBi
	LTE Band 4	0.9dBi
	LTE Band 5	-1.5dBi
	LTE Band 7	1.4dBi
	LTE Band 12	-2.1dBi
	LTE Band 17	-2.0dBi
	LTE Band 38	1.5dBi
<b>Accessory Information:</b>	Battery	
	Brand Name:	BLU
	Model No.:	C926647400P
	Serial No.:	(N/A, marked #1 by test site)
	Capacity:	4000mAh
	Rated Voltage:	3.80V
	Charge Limit:	4.35V
	Manufacturer:	Hunan GaoYuan Battery Co.,LTD
	AC Adapter	
	Brand Name:	BLU
	Model No.:	US-CR-1000
	Serial No.:	(N/A, marked #1 by test site)
	Rated Output:	5.0V=1000mA
	Rated Input:	100-240V~50/60Hz, 0.2A
	Manufacturer:	ShenZhen BaiJunDa Electronic CO., LTD.

**Note 1:** According to the certificate holder, they declared that the models G51 PLUS and M7i bearing the following model numbers are identical in circuitry and electrical, mechanical and physical construction; the only differences are the model number, everything else is the same. The main measuring model is G51 PLUS, only the results for G51 PLUS were recorded in this report.

Production name	Trade Mark	Model No.
Mobile Phone	BLU	G51 PLUS
Mobile Phone	BOLD	M7i



REPORT No. : SZ21010286W05

**Note 2:** SIM 1 and SIM 2 is a chipset unit and tested as a single chipset. The SIM 1 is chosen for test.

**Note 3:** For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



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

<b>LTE Band 2</b>		<b>Maximum E.R.P./E.I.R.P. (W)</b>			<b>Emission Designator (99%OBW)</b>		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
20	0.225	0.169	0.165	18M0G7D	18M1W7D	18M0W7D	
15	0.223	0.174	0.161	13M5G7D	13M5W7D	13M5W7D	
10	0.235	0.168	0.165	9M02G7D	8M99W7D	9M01W7D	
5	0.234	0.152	0.162	4M50G7D	4M50W7D	4M50W7D	
3	0.224	0.167	0.157	2M72G7D	2M72W7D	2M72W7D	
1.4	0.232	0.157	0.160	1M10G7D	1M10W7D	1M10W7D	
<b>LTE Band 4</b>		<b>Maximum E.R.P./E.I.R.P. (W)</b>			<b>Emission Designator (99%OBW)</b>		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
20	0.232	0.183	0.163	20M0G7D	18M0W7D	18M0W7D	
15	0.236	0.175	0.166	13M5G7D	13M5W7D	13M5W7D	
10	0.231	0.179	0.169	8M97G7D	8M96W7D	9M00W7D	
5	0.233	0.158	0.168	4M50G7D	4M50W7D	4M49W7D	
3	0.231	0.206	0.185	2M75G7D	2M77W7D	2M75W7D	
1.4	0.242	0.183	0.171	1M10G7D	1M10W7D	1M10W7D	
<b>LTE Band 5</b>		<b>Maximum E.R.P./E.I.R.P. (W)</b>			<b>Emission Designator (99%OBW)</b>		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
10	0.090	0.067	0.059	9M04G7D	8M97W7D	8M89W7D	
5	0.091	0.064	0.062	4M49G7D	4M45W7D	4M42W7D	
3	0.092	0.067	0.058	2M75G7D	2M79W7D	2M79W7D	
1.4	0.093	0.064	0.064	1M10G7D	1M10W7D	1M10W7D	
<b>LTE Band 7</b>		<b>Maximum E.R.P./E.I.R.P. (W)</b>			<b>Emission Designator (99%OBW)</b>		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
20	0.264	0.213	0.176	18M0G7D	18M1W7D	18M0W7D	
15	0.265	0.211	0.172	13M5G7D	13M5W7D	13M5W7D	
10	0.296	0.219	0.191	9M02G7D	8M98W7D	9M01W7D	
5	0.276	0.181	0.175	4M52G7D	4M51W7D	4M49W7D	
<b>LTE Band 12</b>		<b>Maximum E.R.P./E.I.R.P. (W)</b>			<b>Emission Designator (99%OBW)</b>		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
10	0.077	0.055	0.053	9M02G7D	8M98W7D	9M02W7D	
5	0.079	0.058	0.054	4M51G7D	4M46W7D	4M43W7D	
3	0.081	0.060	0.052	2M78G7D	2M79W7D	2M78W7D	
1.4	0.082	0.056	0.055	1M10G7D	1M10W7D	1M10W7D	



<b>LTE Band 17</b>	<b>Maximum E.R.P./E.I.R.P. (W)</b>			<b>Emission Designator (99%OBW)</b>		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.078	0.056	0.054	9M03G7D	8M97W7D	9M00W7D
5	0.080	0.057	0.056	4M46G7D	4M42W7D	4M44W7D
<b>LTE Band 38</b>	<b>Maximum E.R.P./E.I.R.P. (W)</b>			<b>Emission Designator (99%OBW)</b>		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	0.275	0.167	0.156	18M0G7D	18M0W7D	18M0W7D
15	0.272	0.176	0.159	13M5G7D	13M5W7D	13M5W7D
10	0.271	0.168	0.160	9M01G7D	8M98W7D	8M99W7D
5	0.270	0.167	0.158	4M51G7D	4M51W7D	4M50W7D



## 1.4. Test Standards and Results

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

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

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

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046 22.913(a)(2) 24.232(c) 27.50(a)(3) 27.50(c)(10) 27.50(d)(4) 27.50(h)(2)	Transmitter Conducted Output Power and E.R.P./E.I.R.P.	Apr 28&30, 2021	Chen Hao Huang Zhiye	PASS	No deviation
2.1049	Occupied Bandwidth	Apr 02&07&14, 2020	Ling Keye	PASS	No deviation
2.1055 22.355 24.235 27.54	Frequency Stability	Apr 19, 2021	Ling Keye	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Apr 02, 2021	Ling Keye	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(a)(4) 27.53(g) 27.53(h) 27.53(m)(4)	Conducted Spurious Emissions	Apr 07&14, 2021	Ling Keye	PASS	No deviation
2.1051	Band Edge	Apr 02&07&14,	Ling Keye	PASS	No





22.917(a) 24.238(a) 27.53(a)(4) 27.53(g) 27.53(h) 27.53(m)(4)		2021			deviation
2.1051 22.917(a) 24.238(a) 27.53(a)(4) 27.53(g) 27.53(h) 27.53(m)(4)	Radiated Spurious Emissions	Apr 09, 2021	Ling Keye	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 24.5dB contains two parts that cable loss 14.5dB and Attenuator 10dB.

**Note 3:** Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

**Note 4:** When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% risk level.

### 1.5. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106

## 2.47 CFR Part 2, Part 22H, Part 24E, Part 27 D&H&L&M Requirements

### 2.1. Transmitter Conducted Output Power and E.R.P./E.I.R.P.

#### 2.1.1. Requirement

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

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

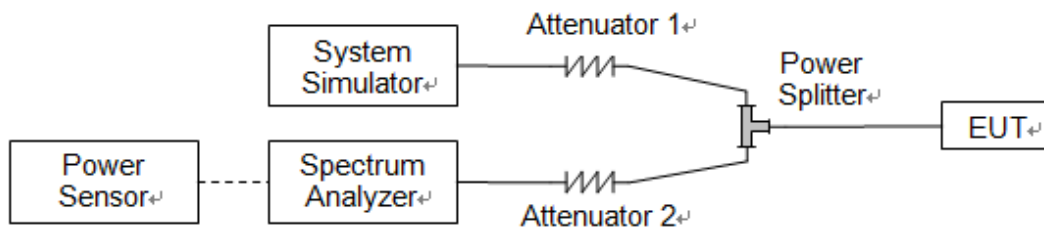
According to FCC section 27.50 (d)(4) for LTE Band 4, Fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat E.I.R.P.

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

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

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

#### 2.1.2. Test Description



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



### 2.1.3. Test Procedure

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

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

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



2.1.4. Result

Conducted Output Power:

LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	22.69	22.82	22.77
20	QPSK	1	49	22.68	22.64	22.74
20	QPSK	1	99	22.7	22.74	22.62
20	QPSK	50	0	21.88	22.01	21.79
20	QPSK	50	24	21.65	21.88	21.8
20	QPSK	50	50	21.7	21.73	21.91
20	QPSK	100	0	21.76	21.72	21.74
20	16QAM	1	0	21.32	20.89	21.25
20	16QAM	1	49	21.58	21.01	21.11
20	16QAM	1	99	21.05	20.72	21.54
20	16QAM	50	0	19.25	19.93	19.84
20	16QAM	50	24	19.37	19.73	19.69
20	16QAM	50	50	20.12	20.21	19.57
20	16QAM	100	0	19.75	20.03	19.71
20	64QAM	1	0	21.37	20.96	21.47
20	64QAM	1	49	20.88	20.7	20.78
20	64QAM	1	99	20.81	20.64	20.93
20	64QAM	50	0	19.45	19.94	19.79
20	64QAM	50	24	19.6	19.71	19.7
20	64QAM	50	50	20.06	20.14	19.57
20	64QAM	100	0	19.72	20.02	19.68



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	22.55	22.58	22.69
15	QPSK	1	37	22.59	22.54	22.79
15	QPSK	1	74	22.57	22.54	22.7
15	QPSK	36	0	21.75	21.69	21.88
15	QPSK	36	20	21.77	21.82	22.01
15	QPSK	36	39	21.82	21.71	21.82
15	QPSK	75	0	21.6	21.73	21.92
15	16QAM	1	0	21.53	21.36	21.35
15	16QAM	1	37	21.05	21.11	21.7
15	16QAM	1	74	21.12	20.92	21.57
15	16QAM	36	0	19.3	19.67	19.92
15	16QAM	36	20	19.21	19.44	19.55
15	16QAM	36	39	19.37	19.58	19.29
15	16QAM	75	0	19.33	19.66	19.58
15	64QAM	1	0	21.13	20.6	21.11
15	64QAM	1	37	20.95	20.75	21.36
15	64QAM	1	74	21.36	20.48	21.06
15	64QAM	36	0	19.32	19.74	19.89
15	64QAM	36	20	19.31	19.49	19.57
15	64QAM	36	39	19.4	19.63	19.28
15	64QAM	75	0	19.37	19.67	19.6



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	22.62	23.01	22.63
10	QPSK	1	25	22.62	22.79	22.87
10	QPSK	1	49	22.65	22.82	22.75
10	QPSK	25	0	21.62	21.65	21.99
10	QPSK	25	12	21.63	21.87	21.85
10	QPSK	25	25	21.77	21.81	21.72
10	QPSK	50	0	21.83	21.83	22
10	16QAM	1	0	21.38	21	21.17
10	16QAM	1	25	21.48	20.92	21.55
10	16QAM	1	49	21.48	20.61	21.36
10	16QAM	25	0	19.28	19.5	19.87
10	16QAM	25	12	19.33	19.48	19.76
10	16QAM	25	25	19.46	19.76	19.67
10	16QAM	50	0	19.32	19.62	19.77
10	64QAM	1	0	20.67	21.35	21.47
10	64QAM	1	25	20.79	20.92	21.14
10	64QAM	1	49	20.48	21.06	21.09
10	64QAM	25	0	19.36	19.61	19.82
10	64QAM	25	12	19.38	19.43	19.75
10	64QAM	25	25	19.59	19.67	19.74
10	64QAM	50	0	19.42	19.74	19.75



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	22.9	22.86	22.99
5	QPSK	1	12	22.74	22.71	22.94
5	QPSK	1	24	22.83	22.74	22.9
5	QPSK	12	0	21.8	21.82	21.86
5	QPSK	12	7	21.71	21.79	21.87
5	QPSK	12	13	21.66	21.74	21.73
5	QPSK	25	0	21.65	21.66	21.96
5	16QAM	1	0	20.92	20.66	20.74
5	16QAM	1	12	20.96	20.63	21.08
5	16QAM	1	24	20.86	20.91	21.12
5	16QAM	12	0	19.32	19.51	19.37
5	16QAM	12	7	19.51	19.57	19.38
5	16QAM	12	13	19.35	19.49	19.16
5	16QAM	25	0	19.37	19.44	19.37
5	64QAM	1	0	21.28	21.34	21.12
5	64QAM	1	12	20.73	21.4	21.18
5	64QAM	1	24	21.13	21.63	21.07
5	64QAM	12	0	19.34	19.35	19.41
5	64QAM	12	7	19.46	19.49	19.44
5	64QAM	12	13	19.35	19.44	19.04
5	64QAM	25	0	19.34	19.43	19.29



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	22.78	22.69	22.69
3	QPSK	1	8	22.77	22.57	22.81
3	QPSK	1	14	22.76	22.69	22.78
3	QPSK	8	0	21.67	21.76	21.95
3	QPSK	8	4	21.71	21.78	21.78
3	QPSK	8	7	21.82	21.83	21.76
3	QPSK	15	0	21.76	21.85	21.84
3	16QAM	1	0	20.48	21.08	21.11
3	16QAM	1	8	20.92	20.74	21.54
3	16QAM	1	14	20.94	20.89	21.25
3	16QAM	8	0	19.27	19.41	19.35
3	16QAM	8	4	19.38	19.3	19.41
3	16QAM	8	7	19.29	19.4	19.2
3	16QAM	15	0	19.51	19.3	19.32
3	64QAM	1	0	21.26	20.97	20.84
3	64QAM	1	8	20.9	20.53	21.07
3	64QAM	1	14	20.85	20.51	20.91
3	64QAM	8	0	19.35	19.37	19.24
3	64QAM	8	4	19.53	19.32	19.39
3	64QAM	8	7	19.46	19.48	19.23
3	64QAM	15	0	19.42	19.27	19.3





LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	22.73	22.77	22.77
1.4	QPSK	1	3	22.75	22.68	22.8
1.4	QPSK	1	5	22.68	22.74	22.77
1.4	QPSK	3	0	22.78	22.81	22.95
1.4	QPSK	3	1	22.7	22.85	22.82
1.4	QPSK	3	3	22.77	22.82	22.9
1.4	QPSK	6	0	21.76	21.75	21.82
1.4	16QAM	1	0	20.73	21.03	20.62
1.4	16QAM	1	3	20.6	20.8	20.78
1.4	16QAM	1	5	20.64	20.8	21.04
1.4	16QAM	3	0	20.97	20.74	21.11
1.4	16QAM	3	1	20.99	20.93	21.25
1.4	16QAM	3	3	21	20.9	21.17
1.4	16QAM	6	0	19.55	19.47	19.13
1.4	64QAM	1	0	21.33	20.65	21.15
1.4	64QAM	1	3	20.73	20.82	20.99
1.4	64QAM	1	5	21.05	20.74	20.74
1.4	64QAM	3	0	21.05	20.72	20.94
1.4	64QAM	3	1	20.98	21.17	21.09
1.4	64QAM	3	3	20.88	20.86	21.06
1.4	64QAM	6	0	19.34	19.45	19.14



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	22.6	22.76	22.67
20	QPSK	1	49	22.53	22.58	22.61
20	QPSK	1	99	22.64	22.62	22.56
20	QPSK	50	0	21.79	21.85	21.65
20	QPSK	50	24	21.72	21.65	21.69
20	QPSK	50	50	21.74	21.62	21.67
20	QPSK	100	0	21.63	21.38	21.65
20	16QAM	1	0	21.64	21.49	21.72
20	16QAM	1	49	21.35	21.21	21.26
20	16QAM	1	99	21.6	20.79	20.92
20	16QAM	50	0	18.48	18.8	19.06
20	16QAM	50	24	18.78	18.97	19.06
20	16QAM	50	50	19.34	19.45	19.31
20	16QAM	100	0	18.9	19.1	19.17
20	64QAM	1	0	21.02	21.04	20.69
20	64QAM	1	49	20.53	20.97	21.21
20	64QAM	1	99	21.14	20.88	20.61
20	64QAM	50	0	18.49	18.79	19.06
20	64QAM	50	24	18.74	19.05	19.06
20	64QAM	50	50	19.32	19.4	19.3
20	64QAM	100	0	18.89	19.13	19.18



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	22.82	22.67	22.65
15	QPSK	1	37	22.58	22.6	22.69
15	QPSK	1	74	22.64	22.6	22.69
15	QPSK	36	0	21.69	21.72	21.75
15	QPSK	36	20	21.72	21.75	21.72
15	QPSK	36	39	21.7	21.63	21.6
15	QPSK	75	0	21.77	21.77	21.66
15	16QAM	1	0	21.01	21.32	21.07
15	16QAM	1	37	20.87	21.53	21.51
15	16QAM	1	74	20.52	20.8	21.13
15	16QAM	36	0	18.68	18.84	19.05
15	16QAM	36	20	18.72	19	19.01
15	16QAM	36	39	18.98	19.01	19
15	16QAM	75	0	18.83	18.97	19.03
15	64QAM	1	0	21.15	21.29	20.55
15	64QAM	1	37	20.78	21.05	20.36
15	64QAM	1	74	20.67	21.2	20.88
15	64QAM	36	0	18.68	18.94	19.07
15	64QAM	36	20	18.74	19.04	18.98
15	64QAM	36	39	19	19.08	18.92
15	64QAM	75	0	18.79	19.09	19.07



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	22.71	22.71	22.65
10	QPSK	1	25	22.68	22.73	22.52
10	QPSK	1	49	22.43	22.68	22.64
10	QPSK	25	0	21.69	21.65	21.68
10	QPSK	25	12	21.67	21.8	21.71
10	QPSK	25	25	21.63	21.75	21.63
10	QPSK	50	0	21.67	21.8	21.86
10	16QAM	1	0	21.64	20.66	20.54
10	16QAM	1	25	21.3	20.53	20.53
10	16QAM	1	49	21.26	20.92	20.59
10	16QAM	25	0	18.53	18.95	19.12
10	16QAM	25	12	18.69	19.12	19.09
10	16QAM	25	25	18.95	19.3	19.22
10	16QAM	50	0	18.76	19.22	19.23
10	64QAM	1	0	20.81	20.97	20.57
10	64QAM	1	25	21.3	21.38	20.37
10	64QAM	1	49	20.9	21.06	20.86
10	64QAM	25	0	18.53	18.95	19.21
10	64QAM	25	12	18.64	19.17	19.16
10	64QAM	25	25	18.96	19.36	19.21
10	64QAM	50	0	18.75	19.12	19.18



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	22.86	22.79	22.77
5	QPSK	1	12	22.75	22.75	22.7
5	QPSK	1	24	22.71	22.74	22.75
5	QPSK	12	0	21.71	21.65	21.8
5	QPSK	12	7	21.62	21.75	21.72
5	QPSK	12	13	21.61	21.7	21.68
5	QPSK	25	0	21.81	21.57	21.79
5	16QAM	1	0	20.56	20.48	21.08
5	16QAM	1	12	20.5	20.5	21.03
5	16QAM	1	24	20.52	20.41	21.05
5	16QAM	12	0	18.67	18.84	18.95
5	16QAM	12	7	18.89	19.07	19.03
5	16QAM	12	13	18.76	18.95	18.74
5	16QAM	25	0	18.63	18.83	18.92
5	64QAM	1	0	20.87	21.35	20.38
5	64QAM	1	12	20.75	21.33	20.42
5	64QAM	1	24	20.65	21.24	20.59
5	64QAM	12	0	18.59	18.71	18.96
5	64QAM	12	7	18.78	19.02	18.97
5	64QAM	12	13	18.71	18.93	18.79
5	64QAM	25	0	18.69	18.85	18.88



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	22.72	22.64	22.52
3	QPSK	1	8	22.65	22.74	22.59
3	QPSK	1	14	22.61	22.67	22.56
3	QPSK	8	0	21.72	21.69	21.8
3	QPSK	8	4	21.8	21.74	21.74
3	QPSK	8	7	21.63	21.7	21.66
3	QPSK	15	0	21.72	21.69	21.71
3	16QAM	1	0	21.58	21.19	21.68
3	16QAM	1	8	21.59	21.57	21.75
3	16QAM	1	14	21.59	21.51	21.28
3	16QAM	8	0	18.84	19.01	18.83
3	16QAM	8	4	18.82	19.05	18.97
3	16QAM	8	7	18.83	19.16	18.89
3	16QAM	15	0	18.8	19.01	18.94
3	64QAM	1	0	20.75	20.77	21.29
3	64QAM	1	8	21	20.67	20.97
3	64QAM	1	14	20.71	21.03	20.86
3	64QAM	8	0	18.74	19.02	18.92
3	64QAM	8	4	18.69	19.05	18.88
3	64QAM	8	7	18.88	18.95	19.01
3	64QAM	15	0	18.64	18.99	18.84



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	22.62	22.51	22.6
1.4	QPSK	1	3	22.66	22.55	22.51
1.4	QPSK	1	5	22.75	22.56	22.51
1.4	QPSK	3	0	22.81	22.7	22.77
1.4	QPSK	3	1	22.94	22.66	22.75
1.4	QPSK	3	3	22.75	22.7	22.79
1.4	QPSK	6	0	21.67	21.62	21.67
1.4	16QAM	1	0	21.05	21.18	21.6
1.4	16QAM	1	3	21.38	20.95	21.72
1.4	16QAM	1	5	21.24	21.16	21.29
1.4	16QAM	3	0	21.15	21	20.99
1.4	16QAM	3	1	21.16	21.07	20.99
1.4	16QAM	3	3	21.13	20.95	20.91
1.4	16QAM	6	0	18.85	19.05	18.77
1.4	64QAM	1	0	20.89	21.03	20.73
1.4	64QAM	1	3	21.17	20.7	20.95
1.4	64QAM	1	5	21.42	21	20.84
1.4	64QAM	3	0	20.9	20.92	21.01
1.4	64QAM	3	1	20.92	21.1	20.78
1.4	64QAM	3	3	21.28	21.03	21.11
1.4	64QAM	6	0	18.52	19.02	18.7



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	23.03	23.21	23.05
10	QPSK	1	25	23.18	23.15	23.02
10	QPSK	1	49	22.96	23.14	22.97
10	QPSK	25	0	22.26	22.27	22.16
10	QPSK	25	12	22.23	22.2	22.3
10	QPSK	25	25	22.12	22.08	22.02
10	QPSK	50	0	22.22	22.04	22.19
10	16QAM	1	0	21.54	21.46	21.9
10	16QAM	1	25	21.82	21.09	21.49
10	16QAM	1	49	21.72	21.65	21.69
10	16QAM	25	0	19.43	18.87	20.05
10	16QAM	25	12	19.46	19.05	19.72
10	16QAM	25	25	19.48	19.27	19.44
10	16QAM	50	0	19.4	19.1	19.76
10	64QAM	1	0	21.14	21.33	21.37
10	64QAM	1	25	20.75	21.07	21.29
10	64QAM	1	49	21.1	21.61	21.06
10	64QAM	25	0	19.4	18.91	20.16
10	64QAM	25	12	19.37	19.1	19.78
10	64QAM	25	25	19.36	19.19	19.38
10	64QAM	50	0	19.4	19.07	19.76





LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	23.14	23.11	23.21
5	QPSK	1	12	23.24	23.15	23.22
5	QPSK	1	24	23.17	23.18	23.2
5	QPSK	12	0	21.96	22.19	22.05
5	QPSK	12	7	22.08	22.08	22.16
5	QPSK	12	13	22.12	22.1	22.21
5	QPSK	25	0	22.14	22.07	22.18
5	16QAM	1	0	20.91	20.95	21.33
5	16QAM	1	12	20.82	21.44	21.11
5	16QAM	1	24	20.93	21.73	21.03
5	16QAM	12	0	19.01	18.85	19.31
5	16QAM	12	7	19.17	19.12	19.29
5	16QAM	12	13	18.96	19.06	18.82
5	16QAM	25	0	18.91	18.97	19.11
5	64QAM	1	0	20.99	21.6	21.3
5	64QAM	1	12	21.54	21.48	21.23
5	64QAM	1	24	21.22	21.47	21.08
5	64QAM	12	0	19	18.94	19.36
5	64QAM	12	7	18.99	19.07	19.2
5	64QAM	12	13	18.9	18.93	18.89
5	64QAM	25	0	18.95	19.03	19.16



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	23.08	23.02	23.21
3	QPSK	1	8	22.96	23.04	23.31
3	QPSK	1	14	22.98	22.95	23.24
3	QPSK	8	0	22.07	22.23	22.36
3	QPSK	8	4	22.11	22.12	22.35
3	QPSK	8	7	22.19	22.1	22.15
3	QPSK	15	0	22.16	22.08	22.22
3	16QAM	1	0	21.91	21.64	21.72
3	16QAM	1	8	21.91	21.87	21.75
3	16QAM	1	14	21.45	21.81	21.18
3	16QAM	8	0	18.94	19.06	19
3	16QAM	8	4	19.14	19.15	19.02
3	16QAM	8	7	19.07	19.2	18.93
3	16QAM	15	0	19.03	19.05	19.04
3	64QAM	1	0	20.97	20.75	21.22
3	64QAM	1	8	21.22	20.75	21.23
3	64QAM	1	14	21.32	21	20.88
3	64QAM	8	0	18.94	19.06	19.1
3	64QAM	8	4	19.07	19.11	19
3	64QAM	8	7	18.98	19.04	18.87
3	64QAM	15	0	18.92	19.01	18.92



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	23.05	23.02	23.2
1.4	QPSK	1	3	23.13	22.96	23.26
1.4	QPSK	1	5	23.04	22.98	23.24
1.4	QPSK	3	0	23.18	23.16	23.3
1.4	QPSK	3	1	23.23	23.19	23.24
1.4	QPSK	3	3	23.19	23.15	23.35
1.4	QPSK	6	0	22.12	22.14	22.16
1.4	16QAM	1	0	21.53	21.77	21.64
1.4	16QAM	1	3	21.65	21.3	21.22
1.4	16QAM	1	5	21.53	21.55	21.53
1.4	16QAM	3	0	21.69	21.48	21.45
1.4	16QAM	3	1	21.71	21.41	21.47
1.4	16QAM	3	3	21.57	21.49	21.4
1.4	16QAM	6	0	19.05	19.12	18.7
1.4	64QAM	1	0	21.04	20.88	20.67
1.4	64QAM	1	3	20.99	20.92	20.96
1.4	64QAM	1	5	21.38	21.17	20.9
1.4	64QAM	3	0	21.64	21.16	21.27
1.4	64QAM	3	1	21.53	21.33	21.36
1.4	64QAM	3	3	21.73	21.33	21.45
1.4	64QAM	6	0	18.81	18.88	18.73



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20850	21100	21350
Frequency (MHz)				2510	2535	2560
20	QPSK	1	0	22.71	22.92	22.67
20	QPSK	1	49	22.71	22.81	22.81
20	QPSK	1	99	22.72	22.79	22.78
20	QPSK	50	0	21.82	21.95	21.87
20	QPSK	50	24	21.93	21.85	21.91
20	QPSK	50	50	21.91	21.93	21.87
20	QPSK	100	0	21.83	21.84	21.87
20	16QAM	1	0	21.62	20.96	21.41
20	16QAM	1	49	21.51	20.82	21.68
20	16QAM	1	99	21.88	21.38	21.47
20	16QAM	50	0	18.95	18.99	19.06
20	16QAM	50	24	19.05	18.88	19.01
20	16QAM	50	50	19.19	19.16	19.36
20	16QAM	100	0	19.1	19.08	19.16
20	64QAM	1	0	20.9	21.08	20.59
20	64QAM	1	49	21.05	20.5	20.43
20	64QAM	1	99	20.75	20.85	20.56
20	64QAM	50	0	19.09	18.96	19.02
20	64QAM	50	24	19.12	18.88	18.99
20	64QAM	50	50	19.29	19.15	19.34
20	64QAM	100	0	19.15	19.03	19.2



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5
15	QPSK	1	0	22.7	22.8	22.73
15	QPSK	1	37	22.75	22.74	22.66
15	QPSK	1	74	22.77	22.83	22.75
15	QPSK	36	0	21.92	21.98	21.77
15	QPSK	36	20	21.8	21.99	21.87
15	QPSK	36	39	21.83	22.06	21.83
15	QPSK	75	0	21.92	21.8	21.79
15	16QAM	1	0	21.81	21.53	21.5
15	16QAM	1	37	21.79	21.39	21.84
15	16QAM	1	74	21.46	21.4	21.57
15	16QAM	36	0	18.9	18.97	19.05
15	16QAM	36	20	18.99	18.92	18.96
15	16QAM	36	39	19.03	19.07	19.09
15	16QAM	75	0	19.09	18.96	19.06
15	64QAM	1	0	20.91	20.52	20.96
15	64QAM	1	37	20.48	20.83	20.46
15	64QAM	1	74	20.81	20.83	20.72
15	64QAM	36	0	19.09	19.08	19.04
15	64QAM	36	20	19.02	19	18.89
15	64QAM	36	39	19.03	19.05	19.09
15	64QAM	75	0	18.99	19.13	19.05



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20800	21100	21400
Frequency (MHz)				2505	2535	2565
10	QPSK	1	0	22.84	22.96	22.62
10	QPSK	1	25	22.88	22.9	22.61
10	QPSK	1	49	22.87	22.89	22.93
10	QPSK	25	0	21.79	21.74	21.88
10	QPSK	25	12	21.88	21.84	21.86
10	QPSK	25	25	21.89	21.96	21.83
10	QPSK	50	0	21.93	21.87	21.83
10	16QAM	1	0	20.76	20.81	20.72
10	16QAM	1	25	20.98	20.91	20.66
10	16QAM	1	49	20.67	21.11	20.72
10	16QAM	25	0	18.75	18.94	18.87
10	16QAM	25	12	18.94	18.93	18.94
10	16QAM	25	25	19.3	19.03	19.21
10	16QAM	50	0	19.08	19.09	19.12
10	64QAM	1	0	20.68	20.94	20.81
10	64QAM	1	25	21.21	20.7	20.59
10	64QAM	1	49	21.14	20.81	21.06
10	64QAM	25	0	18.91	18.99	18.96
10	64QAM	25	12	19.1	19.12	18.93
10	64QAM	25	25	19.2	19.09	19.2
10	64QAM	50	0	19.02	19.07	19.08



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5
5	QPSK	1	0	22.79	22.93	22.74
5	QPSK	1	12	22.96	22.94	22.77
5	QPSK	1	24	23.01	22.96	22.88
5	QPSK	12	0	21.99	21.98	21.91
5	QPSK	12	7	21.89	22.01	21.87
5	QPSK	12	13	21.9	21.89	21.95
5	QPSK	25	0	21.85	21.86	21.83
5	16QAM	1	0	20.62	20.65	21.15
5	16QAM	1	12	20.57	20.62	21.16
5	16QAM	1	24	20.53	20.65	21.17
5	16QAM	12	0	19.13	18.97	18.89
5	16QAM	12	7	19.26	19.11	19.08
5	16QAM	12	13	19.15	18.94	18.95
5	16QAM	25	0	19.13	18.9	18.71
5	64QAM	1	0	20.75	20.72	21.03
5	64QAM	1	12	20.77	20.93	20.96
5	64QAM	1	24	20.82	20.84	20.95
5	64QAM	12	0	18.99	18.94	18.86
5	64QAM	12	7	19.23	19.04	19.08
5	64QAM	12	13	19.22	18.88	18.92
5	64QAM	25	0	19.15	18.94	18.86



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23060	23095	23130
Frequency (MHz)				704	707.5	711
10	QPSK	1	0	23.05	23.12	23.08
10	QPSK	1	25	23.08	23.05	23.03
10	QPSK	1	49	23.04	23.07	23.09
10	QPSK	25	0	22.17	22.46	22.24
10	QPSK	25	12	22.32	22.2	22.27
10	QPSK	25	25	22.26	22.28	22.25
10	QPSK	50	0	22.23	22.27	22.32
10	16QAM	1	0	21.21	21.32	21.6
10	16QAM	1	25	21.19	21.49	21.24
10	16QAM	1	49	21.67	21.39	21.96
10	16QAM	25	0	18.53	18.47	18.55
10	16QAM	25	12	18.66	18.43	18.67
10	16QAM	25	25	18.71	18.5	18.96
10	16QAM	50	0	18.78	18.48	18.77
10	64QAM	1	0	21.37	20.7	21.5
10	64QAM	1	25	21.17	21.46	21.07
10	64QAM	1	49	21.05	21.27	21.07
10	64QAM	25	0	18.67	18.43	18.45
10	64QAM	25	12	18.69	18.35	18.68
10	64QAM	25	25	18.81	18.53	19.11
10	64QAM	50	0	18.68	18.51	18.76





LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	23.21	23.1	23.16
5	QPSK	1	12	23.23	23.08	23.18
5	QPSK	1	24	23.25	23.17	23.22
5	QPSK	12	0	22.16	22.24	22.25
5	QPSK	12	7	22	22.26	22.06
5	QPSK	12	13	22.26	22.34	22.07
5	QPSK	25	0	22.35	22.29	22.06
5	16QAM	1	0	20.89	21.6	21.69
5	16QAM	1	12	20.94	21.89	21.32
5	16QAM	1	24	20.96	21.66	21.25
5	16QAM	12	0	18.5	18.23	18.63
5	16QAM	12	7	18.83	18.25	18.84
5	16QAM	12	13	18.59	18.05	18.69
5	16QAM	25	0	18.58	18.14	18.73
5	64QAM	1	0	20.79	21.09	21.59
5	64QAM	1	12	21.45	21.14	21.19
5	64QAM	1	24	21.43	21.06	21.27
5	64QAM	12	0	18.35	18.24	18.61
5	64QAM	12	7	18.73	18.28	18.84
5	64QAM	12	13	18.65	17.93	18.66
5	64QAM	25	0	18.53	18.17	18.6



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5
3	QPSK	1	0	23.17	23.08	23.21
3	QPSK	1	8	23.12	23.26	23.33
3	QPSK	1	14	23.31	23.03	23.2
3	QPSK	8	0	22.45	22.12	22.31
3	QPSK	8	4	22.29	22.24	22.34
3	QPSK	8	7	22.29	22.43	22.24
3	QPSK	15	0	22.18	22.21	22.31
3	16QAM	1	0	21.5	21.62	21.49
3	16QAM	1	8	22.01	21.68	21.54
3	16QAM	1	14	21.89	21.46	21.88
3	16QAM	8	0	18.51	18.35	18.64
3	16QAM	8	4	18.75	18.35	18.79
3	16QAM	8	7	18.7	18.09	18.7
3	16QAM	15	0	18.62	18.23	18.59
3	64QAM	1	0	21.41	20.99	21.27
3	64QAM	1	8	21.18	20.99	20.86
3	64QAM	1	14	21.26	21.29	20.76
3	64QAM	8	0	18.63	18.22	18.68
3	64QAM	8	4	18.59	18.26	18.67
3	64QAM	8	7	18.58	18.11	18.59
3	64QAM	15	0	18.5	18.31	18.66



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3
1.4	QPSK	1	0	23.28	23.01	23.21
1.4	QPSK	1	3	23.26	23.12	23.34
1.4	QPSK	1	5	23.14	23.1	23.24
1.4	QPSK	3	0	23.36	23.31	23.37
1.4	QPSK	3	1	23.3	23.36	23.36
1.4	QPSK	3	3	23.27	23.24	23.4
1.4	QPSK	6	0	22.29	22.23	22.29
1.4	16QAM	1	0	21.09	21.3	21.09
1.4	16QAM	1	3	21.47	21.57	21.1
1.4	16QAM	1	5	21.71	21.03	21.14
1.4	16QAM	3	0	21.54	21.48	21.29
1.4	16QAM	3	1	21.54	21.35	21.42
1.4	16QAM	3	3	21.49	21.35	21.51
1.4	16QAM	6	0	18.46	18.28	18.71
1.4	64QAM	1	0	21.4	21.06	20.95
1.4	64QAM	1	3	21.12	21.07	21.11
1.4	64QAM	1	5	21.07	21.3	20.75
1.4	64QAM	3	0	21.66	21.37	21.36
1.4	64QAM	3	1	21.58	21.31	21.44
1.4	64QAM	3	3	21.43	21.56	21.56
1.4	64QAM	6	0	18.36	18.14	18.62



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23780	23790	23800
Frequency (MHz)				709	710	711
10	QPSK	1	0	23.02	23.05	23.03
10	QPSK	1	25	23	22.94	22.99
10	QPSK	1	49	22.96	22.95	22.89
10	QPSK	25	0	22.32	22.54	22.33
10	QPSK	25	12	22.13	22.23	22.18
10	QPSK	25	25	22.02	22.21	22.15
10	QPSK	50	0	22.22	21.84	22.07
10	16QAM	1	0	21.43	21.42	21.14
10	16QAM	1	25	21.08	21.64	21.14
10	16QAM	1	49	21.54	21.27	21.51
10	16QAM	25	0	18.61	18.39	18.47
10	16QAM	25	12	18.58	18.61	18.61
10	16QAM	25	25	18.9	18.79	18.89
10	16QAM	50	0	18.79	18.69	18.73
10	64QAM	1	0	20.71	21.06	21.12
10	64QAM	1	25	21.34	21.46	20.86
10	64QAM	1	49	21.31	20.95	21.49
10	64QAM	25	0	18.56	18.46	18.41
10	64QAM	25	12	18.58	18.54	18.63
10	64QAM	25	25	18.86	18.94	18.88
10	64QAM	50	0	18.7	18.69	18.7



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23755	23790	23825
Frequency (MHz)				706.5	710	713.5
5	QPSK	1	0	23.13	22.95	22.98
5	QPSK	1	12	23.03	23.02	22.99
5	QPSK	1	24	23.13	23.18	23.06
5	QPSK	12	0	21.89	22.29	22.02
5	QPSK	12	7	21.91	22.18	22.02
5	QPSK	12	13	21.99	22.13	22.01
5	QPSK	25	0	22.09	22.04	22.03
5	16QAM	1	0	21.44	21.21	21.69
5	16QAM	1	12	21.13	21.29	21.28
5	16QAM	1	24	21.35	21.4	21.38
5	16QAM	12	0	18.41	18.23	18.58
5	16QAM	12	7	18.57	18.54	18.8
5	16QAM	12	13	18.28	18.54	18.55
5	16QAM	25	0	18.44	18.36	18.62
5	64QAM	1	0	21.6	21.11	21.27
5	64QAM	1	12	21.05	21.19	20.87
5	64QAM	1	24	21.12	21.35	21.01
5	64QAM	12	0	18.42	18.26	18.55
5	64QAM	12	7	18.49	18.56	18.75
5	64QAM	12	13	18.31	18.46	18.61
5	64QAM	25	0	18.35	18.38	18.55



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				37850	38000	38150
Frequency (MHz)				2580	2595	2610
20	QPSK	1	0	22.77	22.89	22.72
20	QPSK	1	49	22.84	22.81	22.73
20	QPSK	1	99	22.78	22.84	22.72
20	QPSK	50	0	21.95	22.11	21.96
20	QPSK	50	24	21.93	21.91	22.09
20	QPSK	50	50	21.92	21.97	22.02
20	QPSK	100	0	22.04	21.98	22.08
20	16QAM	1	0	20.61	20.68	20.51
20	16QAM	1	49	20.55	20.5	20.74
20	16QAM	1	99	20.56	20.53	20.59
20	16QAM	50	0	18.95	19.48	19.39
20	16QAM	50	24	18.81	19.33	19.28
20	16QAM	50	50	18.88	19.37	19.42
20	16QAM	100	0	19.17	19.33	19.34
20	64QAM	1	0	20.41	20.2	19.99
20	64QAM	1	49	20.42	20.18	20.27
20	64QAM	1	99	20.39	20.25	20.18
20	64QAM	50	0	19.09	19.35	19.34
20	64QAM	50	24	19	19.21	19.24
20	64QAM	50	50	19.09	19.24	19.37
20	64QAM	100	0	19.15	19.37	19.44



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	22.81	22.84	22.80
15	QPSK	1	37	22.76	22.77	22.76
15	QPSK	1	74	22.74	22.75	22.75
15	QPSK	36	0	22.04	22.12	22.16
15	QPSK	36	20	21.97	22.01	22.05
15	QPSK	36	39	22.07	22.00	21.96
15	QPSK	75	0	22.14	21.92	22.05
15	16QAM	1	0	20.65	20.41	20.57
15	16QAM	1	37	20.60	20.54	20.63
15	16QAM	1	74	20.69	20.63	20.95
15	16QAM	36	0	18.97	19.27	19.13
15	16QAM	36	20	18.80	19.04	18.96
15	16QAM	36	39	18.72	18.93	18.93
15	16QAM	75	0	18.86	19.14	19.07
15	64QAM	1	0	20.52	20.30	20.18
15	64QAM	1	37	20.45	19.99	20.27
15	64QAM	1	74	20.35	20.48	20.18
15	64QAM	36	0	18.94	19.53	19.17
15	64QAM	36	20	18.80	19.29	19.00
15	64QAM	36	39	18.68	19.18	18.95
15	64QAM	75	0	18.80	19.34	19.08



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	22.80	22.83	22.82
10	QPSK	1	25	22.77	22.75	22.75
10	QPSK	1	49	22.71	22.72	22.70
10	QPSK	25	0	22.04	22.03	22.00
10	QPSK	25	12	22.03	22.01	22.01
10	QPSK	25	25	22.07	22.03	22.09
10	QPSK	50	0	22.08	22.26	22.05
10	16QAM	1	0	20.69	20.69	20.76
10	16QAM	1	25	20.64	20.53	20.66
10	16QAM	1	49	20.70	20.52	20.61
10	16QAM	25	0	18.86	19.36	19.31
10	16QAM	25	12	18.95	19.34	19.32
10	16QAM	25	25	18.95	19.35	19.40
10	16QAM	50	0	18.89	19.35	19.35
10	64QAM	1	0	20.35	20.22	20.47
10	64QAM	1	25	20.40	20.23	20.08
10	64QAM	1	49	20.53	20.23	20.18
10	64QAM	25	0	19.04	19.27	19.26
10	64QAM	25	12	19.07	19.26	19.28
10	64QAM	25	25	19.08	19.23	19.18
10	64QAM	50	0	19.00	19.22	19.13





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	22.77	22.81	22.78
5	QPSK	1	12	22.75	22.76	22.76
5	QPSK	1	24	22.74	22.72	22.73
5	QPSK	12	0	22.11	21.99	21.96
5	QPSK	12	7	22.13	22.07	22.04
5	QPSK	12	13	22.02	22.00	21.86
5	QPSK	25	0	22.02	21.98	22.08
5	16QAM	1	0	20.66	20.65	20.73
5	16QAM	1	12	20.62	20.57	20.72
5	16QAM	1	24	20.52	20.70	20.73
5	16QAM	12	0	18.66	19.21	19.09
5	16QAM	12	7	18.76	19.29	19.17
5	16QAM	12	13	18.58	19.11	18.99
5	16QAM	25	0	18.70	19.19	19.08
5	64QAM	1	0	20.49	20.37	20.39
5	64QAM	1	12	20.20	20.27	20.41
5	64QAM	1	24	20.38	20.20	20.45
5	64QAM	12	0	18.88	19.13	19.07
5	64QAM	12	7	18.97	19.23	19.14
5	64QAM	12	13	18.78	19.03	18.96
5	64QAM	25	0	18.76	19.06	19.03



**Effective Radiated Power and Effective Isotropic Radiated Power:**

LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18700		18900		19100	
Frequency (MHz)				1860		1880		1900	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	23.39	0.218	23.52	0.225	23.47	0.222
20	QPSK	1	49	23.38	0.218	23.34	0.216	23.44	0.221
20	QPSK	1	99	23.4	0.219	23.44	0.221	23.32	0.215
20	QPSK	50	0	22.58	0.181	22.71	0.187	22.49	0.177
20	QPSK	50	24	22.35	0.172	22.58	0.181	22.5	0.178
20	QPSK	50	50	22.4	0.174	22.43	0.175	22.61	0.182
20	QPSK	100	0	22.46	0.176	22.42	0.175	22.44	0.175
20	16QAM	1	0	22.02	0.159	21.59	0.144	21.95	0.157
20	16QAM	1	49	22.28	0.169	21.71	0.148	21.81	0.152
20	16QAM	1	99	21.75	0.150	21.42	0.139	22.24	0.167
20	16QAM	50	0	19.95	0.099	20.63	0.116	20.54	0.113
20	16QAM	50	24	20.07	0.102	20.43	0.110	20.39	0.109
20	16QAM	50	50	20.82	0.121	20.91	0.123	20.27	0.106
20	16QAM	100	0	20.45	0.111	20.73	0.118	20.41	0.110
20	64QAM	1	0	22.07	0.161	21.66	0.147	22.17	0.165
20	64QAM	1	49	21.58	0.144	21.4	0.138	21.48	0.141
20	64QAM	1	99	21.51	0.142	21.34	0.136	21.63	0.146
20	64QAM	50	0	20.15	0.104	20.64	0.116	20.49	0.112
20	64QAM	50	24	20.3	0.107	20.41	0.110	20.4	0.110
20	64QAM	50	50	20.76	0.119	20.84	0.121	20.27	0.106
20	64QAM	100	0	20.42	0.110	20.72	0.118	20.38	0.109



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18675		18900		19125	
Frequency (MHz)				1857.5		1880		1902.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	23.25	0.211	23.28	0.213	23.39	0.218
15	QPSK	1	37	23.29	0.213	23.24	0.211	23.49	0.223
15	QPSK	1	74	23.27	0.212	23.24	0.211	23.4	0.219
15	QPSK	36	0	22.45	0.176	22.39	0.173	22.58	0.181
15	QPSK	36	20	22.47	0.177	22.52	0.179	22.71	0.187
15	QPSK	36	39	22.52	0.179	22.41	0.174	22.52	0.179
15	QPSK	75	0	22.3	0.170	22.43	0.175	22.62	0.183
15	16QAM	1	0	22.23	0.167	22.06	0.161	22.05	0.160
15	16QAM	1	37	21.75	0.150	21.81	0.152	22.4	0.174
15	16QAM	1	74	21.82	0.152	21.62	0.145	22.27	0.169
15	16QAM	36	0	20	0.100	20.37	0.109	20.62	0.115
15	16QAM	36	20	19.91	0.098	20.14	0.103	20.25	0.106
15	16QAM	36	39	20.07	0.102	20.28	0.107	19.99	0.100
15	16QAM	75	0	20.03	0.101	20.36	0.109	20.28	0.107
15	64QAM	1	0	21.83	0.152	21.3	0.135	21.81	0.152
15	64QAM	1	37	21.65	0.146	21.45	0.140	22.06	0.161
15	64QAM	1	74	22.06	0.161	21.18	0.131	21.76	0.150
15	64QAM	36	0	20.02	0.100	20.44	0.111	20.59	0.115
15	64QAM	36	20	20.01	0.100	20.19	0.104	20.27	0.106
15	64QAM	36	39	20.1	0.102	20.33	0.108	19.98	0.100
15	64QAM	75	0	20.07	0.102	20.37	0.109	20.3	0.107



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18650		18900		19150	
Frequency (MHz)				1855		1880		1905	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	23.32	0.215	23.71	0.235	23.33	0.215
10	QPSK	1	25	23.32	0.215	23.49	0.223	23.57	0.228
10	QPSK	1	49	23.35	0.216	23.52	0.225	23.45	0.221
10	QPSK	25	0	22.32	0.171	22.35	0.172	22.69	0.186
10	QPSK	25	12	22.33	0.171	22.57	0.181	22.55	0.180
10	QPSK	25	25	22.47	0.177	22.51	0.178	22.42	0.175
10	QPSK	50	0	22.53	0.179	22.53	0.179	22.7	0.186
10	16QAM	1	0	22.08	0.161	21.7	0.148	21.87	0.154
10	16QAM	1	25	22.18	0.165	21.62	0.145	22.25	0.168
10	16QAM	1	49	22.18	0.165	21.31	0.135	22.06	0.161
10	16QAM	25	0	19.98	0.100	20.2	0.105	20.57	0.114
10	16QAM	25	12	20.03	0.101	20.18	0.104	20.46	0.111
10	16QAM	25	25	20.16	0.104	20.46	0.111	20.37	0.109
10	16QAM	50	0	20.02	0.100	20.32	0.108	20.47	0.111
10	64QAM	1	0	21.37	0.137	22.05	0.160	22.17	0.165
10	64QAM	1	25	21.49	0.141	21.62	0.145	21.84	0.153
10	64QAM	1	49	21.18	0.131	21.76	0.150	21.79	0.151
10	64QAM	25	0	20.06	0.101	20.31	0.107	20.52	0.113
10	64QAM	25	12	20.08	0.102	20.13	0.103	20.45	0.111
10	64QAM	25	25	20.29	0.107	20.37	0.109	20.44	0.111
10	64QAM	50	0	20.12	0.103	20.44	0.111	20.45	0.111



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18625		18900		19175	
Frequency (MHz)				1852.5		1880		1907.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	23.6	0.229	23.56	0.227	23.69	0.234
5	QPSK	1	12	23.44	0.221	23.41	0.219	23.64	0.231
5	QPSK	1	24	23.53	0.225	23.44	0.221	23.6	0.229
5	QPSK	12	0	22.5	0.178	22.52	0.179	22.56	0.180
5	QPSK	12	7	22.41	0.174	22.49	0.177	22.57	0.181
5	QPSK	12	13	22.36	0.172	22.44	0.175	22.43	0.175
5	QPSK	25	0	22.35	0.172	22.36	0.172	22.66	0.185
5	16QAM	1	0	21.62	0.145	21.36	0.137	21.44	0.139
5	16QAM	1	12	21.66	0.147	21.33	0.136	21.78	0.151
5	16QAM	1	24	21.56	0.143	21.61	0.145	21.82	0.152
5	16QAM	12	0	20.02	0.100	20.21	0.105	20.07	0.102
5	16QAM	12	7	20.21	0.105	20.27	0.106	20.08	0.102
5	16QAM	12	13	20.05	0.101	20.19	0.104	19.86	0.097
5	16QAM	25	0	20.07	0.102	20.14	0.103	20.07	0.102
5	64QAM	1	0	21.98	0.158	22.04	0.160	21.82	0.152
5	64QAM	1	12	21.43	0.139	22.1	0.162	21.88	0.154
5	64QAM	1	24	21.83	0.152	22.33	0.171	21.77	0.150
5	64QAM	12	0	20.04	0.101	20.05	0.101	20.11	0.103
5	64QAM	12	7	20.16	0.104	20.19	0.104	20.14	0.103
5	64QAM	12	13	20.05	0.101	20.14	0.103	19.74	0.094
5	64QAM	25	0	20.04	0.101	20.13	0.103	19.99	0.100



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18615		18900		19185	
Frequency (MHz)				1851.5		1880		1908.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	23.48	0.223	23.39	0.218	23.39	0.218
3	QPSK	1	8	23.47	0.222	23.27	0.212	23.51	0.224
3	QPSK	1	14	23.46	0.222	23.39	0.218	23.48	0.223
3	QPSK	8	0	22.37	0.173	22.46	0.176	22.65	0.184
3	QPSK	8	4	22.41	0.174	22.48	0.177	22.48	0.177
3	QPSK	8	7	22.52	0.179	22.53	0.179	22.46	0.176
3	QPSK	15	0	22.46	0.176	22.55	0.180	22.54	0.179
3	16QAM	1	0	21.18	0.131	21.78	0.151	21.81	0.152
3	16QAM	1	8	21.62	0.145	21.44	0.139	22.24	0.167
3	16QAM	1	14	21.64	0.146	21.59	0.144	21.95	0.157
3	16QAM	8	0	19.97	0.099	20.11	0.103	20.05	0.101
3	16QAM	8	4	20.08	0.102	20	0.100	20.11	0.103
3	16QAM	8	7	19.99	0.100	20.1	0.102	19.9	0.098
3	16QAM	15	0	20.21	0.105	20	0.100	20.02	0.100
3	64QAM	1	0	21.96	0.157	21.67	0.147	21.54	0.143
3	64QAM	1	8	21.6	0.145	21.23	0.133	21.77	0.150
3	64QAM	1	14	21.55	0.143	21.21	0.132	21.61	0.145
3	64QAM	8	0	20.05	0.101	20.07	0.102	19.94	0.099
3	64QAM	8	4	20.23	0.105	20.02	0.100	20.09	0.102
3	64QAM	8	7	20.16	0.104	20.18	0.104	19.93	0.098
3	64QAM	15	0	20.12	0.103	19.97	0.099	20	0.100



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18607		18900		19193	
Frequency (MHz)				1850.7		1880		1909.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	23.43	0.220	23.47	0.222	23.47	0.222
1.4	QPSK	1	3	23.45	0.221	23.38	0.218	23.5	0.224
1.4	QPSK	1	5	23.38	0.218	23.44	0.221	23.47	0.222
1.4	QPSK	3	0	23.48	0.223	23.51	0.224	23.65	0.232
1.4	QPSK	3	1	23.4	0.219	23.55	0.226	23.52	0.225
1.4	QPSK	3	3	23.47	0.222	23.52	0.225	23.6	0.229
1.4	QPSK	6	0	22.46	0.176	22.45	0.176	22.52	0.179
1.4	16QAM	1	0	21.43	0.139	21.73	0.149	21.32	0.136
1.4	16QAM	1	3	21.3	0.135	21.5	0.141	21.48	0.141
1.4	16QAM	1	5	21.34	0.136	21.5	0.141	21.74	0.149
1.4	16QAM	3	0	21.67	0.147	21.44	0.139	21.81	0.152
1.4	16QAM	3	1	21.69	0.148	21.63	0.146	21.95	0.157
1.4	16QAM	3	3	21.7	0.148	21.6	0.145	21.87	0.154
1.4	16QAM	6	0	20.25	0.106	20.17	0.104	19.83	0.096
1.4	64QAM	1	0	22.03	0.160	21.35	0.136	21.85	0.153
1.4	64QAM	1	3	21.43	0.139	21.52	0.142	21.69	0.148
1.4	64QAM	1	5	21.75	0.150	21.44	0.139	21.44	0.139
1.4	64QAM	3	0	21.75	0.150	21.42	0.139	21.64	0.146
1.4	64QAM	3	1	21.68	0.147	21.87	0.154	21.79	0.151
1.4	64QAM	3	3	21.58	0.144	21.56	0.143	21.76	0.150
1.4	64QAM	6	0	20.04	0.101	20.15	0.104	19.84	0.096



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20050		20175		20300	
Frequency (MHz)				1720		1732.5		1745	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	23.5	0.224	23.66	0.232	23.57	0.228
20	QPSK	1	49	23.43	0.220	23.48	0.223	23.51	0.224
20	QPSK	1	99	23.54	0.226	23.52	0.225	23.46	0.222
20	QPSK	50	0	22.69	0.186	22.75	0.188	22.55	0.180
20	QPSK	50	24	22.62	0.183	22.55	0.180	22.59	0.182
20	QPSK	50	50	22.64	0.184	22.52	0.179	22.57	0.181
20	QPSK	100	0	22.53	0.179	22.28	0.169	22.55	0.180
20	16QAM	1	0	22.54	0.179	22.39	0.173	22.62	0.183
20	16QAM	1	49	22.25	0.168	22.11	0.163	22.16	0.164
20	16QAM	1	99	22.5	0.178	21.69	0.148	21.82	0.152
20	16QAM	50	0	19.38	0.087	19.7	0.093	19.96	0.099
20	16QAM	50	24	19.68	0.093	19.87	0.097	19.96	0.099
20	16QAM	50	50	20.24	0.106	20.35	0.108	20.21	0.105
20	16QAM	100	0	19.8	0.095	20	0.100	20.07	0.102
20	64QAM	1	0	21.92	0.156	21.94	0.156	21.59	0.144
20	64QAM	1	49	21.43	0.139	21.87	0.154	22.11	0.163
20	64QAM	1	99	22.04	0.160	21.78	0.151	21.51	0.142
20	64QAM	50	0	19.39	0.087	19.69	0.093	19.96	0.099
20	64QAM	50	24	19.64	0.092	19.95	0.099	19.96	0.099
20	64QAM	50	50	20.22	0.105	20.3	0.107	20.2	0.105
20	64QAM	100	0	19.79	0.095	20.03	0.101	20.08	0.102





LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20025		20175		20325	
Frequency (MHz)				1717.5		1732.5		1747.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	23.72	0.236	23.57	0.228	23.55	0.226
15	QPSK	1	37	23.48	0.223	23.5	0.224	23.59	0.229
15	QPSK	1	74	23.54	0.226	23.5	0.224	23.59	0.229
15	QPSK	36	0	22.59	0.182	22.62	0.183	22.65	0.184
15	QPSK	36	20	22.62	0.183	22.65	0.184	22.62	0.183
15	QPSK	36	39	22.6	0.182	22.53	0.179	22.5	0.178
15	QPSK	75	0	22.67	0.185	22.67	0.185	22.56	0.180
15	16QAM	1	0	21.91	0.155	22.22	0.167	21.97	0.157
15	16QAM	1	37	21.77	0.150	22.43	0.175	22.41	0.174
15	16QAM	1	74	21.42	0.139	21.7	0.148	22.03	0.160
15	16QAM	36	0	19.58	0.091	19.74	0.094	19.95	0.099
15	16QAM	36	20	19.62	0.092	19.9	0.098	19.91	0.098
15	16QAM	36	39	19.88	0.097	19.91	0.098	19.9	0.098
15	16QAM	75	0	19.73	0.094	19.87	0.097	19.93	0.098
15	64QAM	1	0	22.05	0.160	22.19	0.166	21.45	0.140
15	64QAM	1	37	21.68	0.147	21.95	0.157	21.26	0.134
15	64QAM	1	74	21.57	0.144	22.1	0.162	21.78	0.151
15	64QAM	36	0	19.58	0.091	19.84	0.096	19.97	0.099
15	64QAM	36	20	19.64	0.092	19.94	0.099	19.88	0.097
15	64QAM	36	39	19.9	0.098	19.98	0.100	19.82	0.096
15	64QAM	75	0	19.69	0.093	19.99	0.100	19.97	0.099



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20000		20175		20350	
Frequency (MHz)				1715		1732.5		1750	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	23.61	0.230	23.61	0.230	23.55	0.226
10	QPSK	1	25	23.58	0.228	23.63	0.231	23.42	0.220
10	QPSK	1	49	23.33	0.215	23.58	0.228	23.54	0.226
10	QPSK	25	0	22.59	0.182	22.55	0.180	22.58	0.181
10	QPSK	25	12	22.57	0.181	22.7	0.186	22.61	0.182
10	QPSK	25	25	22.53	0.179	22.65	0.184	22.53	0.179
10	QPSK	50	0	22.57	0.181	22.7	0.186	22.76	0.189
10	16QAM	1	0	22.54	0.179	21.56	0.143	21.44	0.139
10	16QAM	1	25	22.2	0.166	21.43	0.139	21.43	0.139
10	16QAM	1	49	22.16	0.164	21.82	0.152	21.49	0.141
10	16QAM	25	0	19.43	0.088	19.85	0.097	20.02	0.100
10	16QAM	25	12	19.59	0.091	20.02	0.100	19.99	0.100
10	16QAM	25	25	19.85	0.097	20.2	0.105	20.12	0.103
10	16QAM	50	0	19.66	0.092	20.12	0.103	20.13	0.103
10	64QAM	1	0	21.71	0.148	21.87	0.154	21.47	0.140
10	64QAM	1	25	22.2	0.166	22.28	0.169	21.27	0.134
10	64QAM	1	49	21.8	0.151	21.96	0.157	21.76	0.150
10	64QAM	25	0	19.43	0.088	19.85	0.097	20.11	0.103
10	64QAM	25	12	19.54	0.090	20.07	0.102	20.06	0.101
10	64QAM	25	25	19.86	0.097	20.26	0.106	20.11	0.103
10	64QAM	50	0	19.65	0.092	20.02	0.100	20.08	0.102



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19975		20175		20375	
Frequency (MHz)				1712.5		1732.5		1752.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	23.76	0.238	23.69	0.234	23.67	0.233
5	QPSK	1	12	23.65	0.232	23.65	0.232	23.6	0.229
5	QPSK	1	24	23.61	0.230	23.64	0.231	23.65	0.232
5	QPSK	12	0	22.61	0.182	22.55	0.180	22.7	0.186
5	QPSK	12	7	22.52	0.179	22.65	0.184	22.62	0.183
5	QPSK	12	13	22.51	0.178	22.6	0.182	22.58	0.181
5	QPSK	25	0	22.71	0.187	22.47	0.177	22.69	0.186
5	16QAM	1	0	21.46	0.140	21.38	0.137	21.98	0.158
5	16QAM	1	12	21.4	0.138	21.4	0.138	21.93	0.156
5	16QAM	1	24	21.42	0.139	21.31	0.135	21.95	0.157
5	16QAM	12	0	19.57	0.091	19.74	0.094	19.85	0.097
5	16QAM	12	7	19.79	0.095	19.97	0.099	19.93	0.098
5	16QAM	12	13	19.66	0.092	19.85	0.097	19.64	0.092
5	16QAM	25	0	19.53	0.090	19.73	0.094	19.82	0.096
5	64QAM	1	0	21.77	0.150	22.25	0.168	21.28	0.134
5	64QAM	1	12	21.65	0.146	22.23	0.167	21.32	0.136
5	64QAM	1	24	21.55	0.143	22.14	0.164	21.49	0.141
5	64QAM	12	0	19.49	0.089	19.61	0.091	19.86	0.097
5	64QAM	12	7	19.68	0.093	19.92	0.098	19.87	0.097
5	64QAM	12	13	19.61	0.091	19.83	0.096	19.69	0.093
5	64QAM	25	0	19.59	0.091	19.75	0.094	19.78	0.095



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19965		20175		20385	
Frequency (MHz)				1711.5		1732.5		1753.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	23.62	0.230	23.54	0.226	24.29	0.269
3	QPSK	1	8	23.55	0.226	23.64	0.231	24.41	0.276
3	QPSK	1	14	23.51	0.224	23.57	0.228	24.38	0.274
3	QPSK	8	0	22.62	0.183	22.59	0.182	23.55	0.226
3	QPSK	8	4	22.7	0.186	22.64	0.184	23.38	0.218
3	QPSK	8	7	22.53	0.179	22.6	0.182	23.36	0.217
3	QPSK	15	0	22.62	0.183	22.59	0.182	23.44	0.221
3	16QAM	1	0	22.48	0.177	22.09	0.162	22.71	0.187
3	16QAM	1	8	22.49	0.177	22.47	0.177	23.14	0.206
3	16QAM	1	14	22.49	0.177	22.41	0.174	22.85	0.193
3	16QAM	8	0	19.74	0.094	19.91	0.098	20.95	0.124
3	16QAM	8	4	19.72	0.094	19.95	0.099	21.01	0.126
3	16QAM	8	7	19.73	0.094	20.06	0.101	20.8	0.120
3	16QAM	15	0	19.7	0.093	19.91	0.098	20.92	0.124
3	64QAM	1	0	21.65	0.146	21.67	0.147	22.44	0.175
3	64QAM	1	8	21.9	0.155	21.57	0.144	22.67	0.185
3	64QAM	1	14	21.61	0.145	21.93	0.156	22.51	0.178
3	64QAM	8	0	19.64	0.092	19.92	0.098	20.84	0.121
3	64QAM	8	4	19.59	0.091	19.95	0.099	20.99	0.126
3	64QAM	8	7	19.78	0.095	19.85	0.097	20.83	0.121
3	64QAM	15	0	19.54	0.090	19.89	0.097	20.9	0.123



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19957		20175		20393	
Frequency (MHz)				1710.7		1732.5		1754.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	23.52	0.225	23.41	0.219	23.5	0.224
1.4	QPSK	1	3	23.56	0.227	23.45	0.221	23.41	0.219
1.4	QPSK	1	5	23.65	0.232	23.46	0.222	23.41	0.219
1.4	QPSK	3	0	23.71	0.235	23.6	0.229	23.67	0.233
1.4	QPSK	3	1	23.84	0.242	23.56	0.227	23.65	0.232
1.4	QPSK	3	3	23.65	0.232	23.6	0.229	23.69	0.234
1.4	QPSK	6	0	22.57	0.181	22.52	0.179	22.57	0.181
1.4	16QAM	1	0	21.95	0.157	22.08	0.161	22.5	0.178
1.4	16QAM	1	3	22.28	0.169	21.85	0.153	22.62	0.183
1.4	16QAM	1	5	22.14	0.164	22.06	0.161	22.19	0.166
1.4	16QAM	3	0	22.05	0.160	21.9	0.155	21.89	0.155
1.4	16QAM	3	1	22.06	0.161	21.97	0.157	21.89	0.155
1.4	16QAM	3	3	22.03	0.160	21.85	0.153	21.81	0.152
1.4	16QAM	6	0	19.75	0.094	19.95	0.099	19.67	0.093
1.4	64QAM	1	0	21.79	0.151	21.93	0.156	21.63	0.146
1.4	64QAM	1	3	22.07	0.161	21.6	0.145	21.85	0.153
1.4	64QAM	1	5	22.32	0.171	21.9	0.155	21.74	0.149
1.4	64QAM	3	0	21.8	0.151	21.82	0.152	21.91	0.155
1.4	64QAM	3	1	21.82	0.152	22	0.158	21.68	0.147
1.4	64QAM	3	3	22.18	0.165	21.93	0.156	22.01	0.159
1.4	64QAM	6	0	19.42	0.087	19.92	0.098	19.6	0.091



LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20450		20525		20600	
Frequency (MHz)				829		836.5		844	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	19.38	0.087	19.56	0.090	19.4	0.087
10	QPSK	1	25	19.53	0.090	19.5	0.089	19.37	0.086
10	QPSK	1	49	19.31	0.085	19.49	0.089	19.32	0.086
10	QPSK	25	0	18.61	0.073	18.62	0.073	18.51	0.071
10	QPSK	25	12	18.58	0.072	18.55	0.072	18.65	0.073
10	QPSK	25	25	18.47	0.070	18.43	0.070	18.37	0.069
10	QPSK	50	0	18.57	0.072	18.39	0.069	18.54	0.071
10	16QAM	1	0	17.89	0.062	17.81	0.060	18.25	0.067
10	16QAM	1	25	18.17	0.066	17.44	0.055	17.84	0.061
10	16QAM	1	49	18.07	0.064	18	0.063	18.04	0.064
10	16QAM	25	0	15.78	0.038	15.22	0.033	16.4	0.044
10	16QAM	25	12	15.81	0.038	15.4	0.035	16.07	0.040
10	16QAM	25	25	15.83	0.038	15.62	0.036	15.79	0.038
10	16QAM	50	0	15.75	0.038	15.45	0.035	16.11	0.041
10	64QAM	1	0	17.49	0.056	17.68	0.059	17.72	0.059
10	64QAM	1	25	17.1	0.051	17.42	0.055	17.64	0.058
10	64QAM	1	49	17.45	0.056	17.96	0.063	17.41	0.055
10	64QAM	25	0	15.75	0.038	15.26	0.034	16.51	0.045
10	64QAM	25	12	15.72	0.037	15.45	0.035	16.13	0.041
10	64QAM	25	25	15.71	0.037	15.54	0.036	15.73	0.037
10	64QAM	50	0	15.75	0.038	15.42	0.035	16.11	0.041



LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20425		20525		20625	
Frequency (MHz)				826.5		836.5		846.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	19.49	0.089	19.46	0.088	19.56	0.090
5	QPSK	1	12	19.59	0.091	19.5	0.089	19.57	0.091
5	QPSK	1	24	19.52	0.090	19.53	0.090	19.55	0.090
5	QPSK	12	0	18.31	0.068	18.54	0.071	18.4	0.069
5	QPSK	12	7	18.43	0.070	18.43	0.070	18.51	0.071
5	QPSK	12	13	18.47	0.070	18.45	0.070	18.56	0.072
5	QPSK	25	0	18.49	0.071	18.42	0.070	18.53	0.071
5	16QAM	1	0	17.26	0.053	17.3	0.054	17.68	0.059
5	16QAM	1	12	17.17	0.052	17.79	0.060	17.46	0.056
5	16QAM	1	24	17.28	0.053	18.08	0.064	17.38	0.055
5	16QAM	12	0	15.36	0.034	15.2	0.033	15.66	0.037
5	16QAM	12	7	15.52	0.036	15.47	0.035	15.64	0.037
5	16QAM	12	13	15.31	0.034	15.41	0.035	15.17	0.033
5	16QAM	25	0	15.26	0.034	15.32	0.034	15.46	0.035
5	64QAM	1	0	17.34	0.054	17.95	0.062	17.65	0.058
5	64QAM	1	12	17.89	0.062	17.83	0.061	17.58	0.057
5	64QAM	1	24	17.57	0.057	17.82	0.061	17.43	0.055
5	64QAM	12	0	15.35	0.034	15.29	0.034	15.71	0.037
5	64QAM	12	7	15.34	0.034	15.42	0.035	15.55	0.036
5	64QAM	12	13	15.25	0.033	15.28	0.034	15.24	0.033
5	64QAM	25	0	15.3	0.034	15.38	0.035	15.51	0.036



LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20415		20525		20635	
Frequency (MHz)				825.5		836.5		847.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	19.43	0.088	19.37	0.086	19.56	0.090
3	QPSK	1	8	19.31	0.085	19.39	0.087	19.66	0.092
3	QPSK	1	14	19.33	0.086	19.3	0.085	19.59	0.091
3	QPSK	8	0	18.42	0.070	18.58	0.072	18.71	0.074
3	QPSK	8	4	18.46	0.070	18.47	0.070	18.7	0.074
3	QPSK	8	7	18.54	0.071	18.45	0.070	18.5	0.071
3	QPSK	15	0	18.51	0.071	18.43	0.070	18.57	0.072
3	16QAM	1	0	18.26	0.067	17.99	0.063	18.07	0.064
3	16QAM	1	8	18.26	0.067	18.22	0.066	18.1	0.065
3	16QAM	1	14	17.8	0.060	18.16	0.065	17.53	0.057
3	16QAM	8	0	15.29	0.034	15.41	0.035	15.35	0.034
3	16QAM	8	4	15.49	0.035	15.5	0.035	15.37	0.034
3	16QAM	8	7	15.42	0.035	15.55	0.036	15.28	0.034
3	16QAM	15	0	15.38	0.035	15.4	0.035	15.39	0.035
3	64QAM	1	0	17.32	0.054	17.1	0.051	17.57	0.057
3	64QAM	1	8	17.57	0.057	17.1	0.051	17.58	0.057
3	64QAM	1	14	17.67	0.058	17.35	0.054	17.23	0.053
3	64QAM	8	0	15.29	0.034	15.41	0.035	15.45	0.035
3	64QAM	8	4	15.42	0.035	15.46	0.035	15.35	0.034
3	64QAM	8	7	15.33	0.034	15.39	0.035	15.22	0.033
3	64QAM	15	0	15.27	0.034	15.36	0.034	15.27	0.034





LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20407		20525		20643	
Frequency (MHz)				824.7		836.5		848.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	19.4	0.087	19.37	0.086	19.55	0.090
1.4	QPSK	1	3	19.48	0.089	19.31	0.085	19.61	0.091
1.4	QPSK	1	5	19.39	0.087	19.33	0.086	19.59	0.091
1.4	QPSK	3	0	19.53	0.090	19.51	0.089	19.65	0.092
1.4	QPSK	3	1	19.58	0.091	19.54	0.090	19.59	0.091
1.4	QPSK	3	3	19.54	0.090	19.5	0.089	19.7	0.093
1.4	QPSK	6	0	18.47	0.070	18.49	0.071	18.51	0.071
1.4	16QAM	1	0	17.88	0.061	18.12	0.065	17.99	0.063
1.4	16QAM	1	3	18	0.063	17.65	0.058	17.57	0.057
1.4	16QAM	1	5	17.88	0.061	17.9	0.062	17.88	0.061
1.4	16QAM	3	0	18.04	0.064	17.83	0.061	17.8	0.060
1.4	16QAM	3	1	18.06	0.064	17.76	0.060	17.82	0.061
1.4	16QAM	3	3	17.92	0.062	17.84	0.061	17.75	0.060
1.4	16QAM	6	0	15.4	0.035	15.47	0.035	15.05	0.032
1.4	64QAM	1	0	17.39	0.055	17.23	0.053	17.02	0.050
1.4	64QAM	1	3	17.34	0.054	17.27	0.053	17.31	0.054
1.4	64QAM	1	5	17.73	0.059	17.52	0.056	17.25	0.053
1.4	64QAM	3	0	17.99	0.063	17.51	0.056	17.62	0.058
1.4	64QAM	3	1	17.88	0.061	17.68	0.059	17.71	0.059
1.4	64QAM	3	3	18.08	0.064	17.68	0.059	17.8	0.060
1.4	64QAM	6	0	15.16	0.033	15.23	0.033	15.08	0.032



LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20850		21100		21350	
Frequency (MHz)				2510		2535		2560	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	24.11	0.258	20.96	0.125	24.07	0.255
20	QPSK	1	49	24.11	0.258	20.9	0.123	24.21	0.264
20	QPSK	1	99	24.12	0.258	20.89	0.123	24.18	0.262
20	QPSK	50	0	23.22	0.210	20.02	0.100	23.27	0.212
20	QPSK	50	24	23.33	0.215	19.95	0.099	23.31	0.214
20	QPSK	50	50	23.31	0.214	19.83	0.096	23.27	0.212
20	QPSK	100	0	23.23	0.210	19.79	0.095	23.27	0.212
20	16QAM	1	0	23.02	0.200	19.21	0.083	22.81	0.191
20	16QAM	1	49	22.91	0.195	18.84	0.077	23.08	0.203
20	16QAM	1	99	23.28	0.213	19.4	0.087	22.87	0.194
20	16QAM	50	0	20.35	0.108	16.62	0.046	20.46	0.111
20	16QAM	50	24	20.45	0.111	16.8	0.048	20.41	0.110
20	16QAM	50	50	20.59	0.115	17.02	0.050	20.76	0.119
20	16QAM	100	0	20.5	0.112	16.85	0.048	20.56	0.114
20	64QAM	1	0	22.3	0.170	19.08	0.081	21.99	0.158
20	64QAM	1	49	22.45	0.176	18.82	0.076	21.83	0.152
20	64QAM	1	99	22.15	0.164	19.36	0.086	21.96	0.157
20	64QAM	50	0	20.49	0.112	16.66	0.046	20.42	0.110
20	64QAM	50	24	20.52	0.113	16.85	0.048	20.39	0.109
20	64QAM	50	50	20.69	0.117	16.94	0.049	20.74	0.119
20	64QAM	100	0	20.55	0.114	16.82	0.048	20.6	0.115



LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20825		21100		21375	
Frequency (MHz)				2507.5		2535		2562.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	24.1	0.257	24.2	0.263	24.13	0.259
15	QPSK	1	37	24.15	0.260	24.14	0.259	24.06	0.255
15	QPSK	1	74	24.17	0.261	24.23	0.265	24.15	0.260
15	QPSK	36	0	23.32	0.215	23.38	0.218	23.17	0.207
15	QPSK	36	20	23.2	0.209	23.39	0.218	23.27	0.212
15	QPSK	36	39	23.23	0.210	23.46	0.222	23.23	0.210
15	QPSK	75	0	23.32	0.215	23.2	0.209	23.19	0.208
15	16QAM	1	0	23.21	0.209	22.93	0.196	22.9	0.195
15	16QAM	1	37	23.19	0.208	22.79	0.190	23.24	0.211
15	16QAM	1	74	22.86	0.193	22.8	0.191	22.97	0.198
15	16QAM	36	0	20.3	0.107	20.37	0.109	20.45	0.111
15	16QAM	36	20	20.39	0.109	20.32	0.108	20.36	0.109
15	16QAM	36	39	20.43	0.110	20.47	0.111	20.49	0.112
15	16QAM	75	0	20.49	0.112	20.36	0.109	20.46	0.111
15	64QAM	1	0	22.31	0.170	21.92	0.156	22.36	0.172
15	64QAM	1	37	21.88	0.154	22.23	0.167	21.86	0.153
15	64QAM	1	74	22.21	0.166	22.23	0.167	22.12	0.163
15	64QAM	36	0	20.49	0.112	20.48	0.112	20.44	0.111
15	64QAM	36	20	20.42	0.110	20.4	0.110	20.29	0.107
15	64QAM	36	39	20.43	0.110	20.45	0.111	20.49	0.112
15	64QAM	75	0	20.39	0.109	20.53	0.113	20.45	0.111



LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20800		21100		21400	
Frequency (MHz)				2505		2535		2565	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	24.57	0.286	24.36	0.273	24.02	0.252
10	QPSK	1	25	24.52	0.283	24.3	0.269	24.01	0.252
10	QPSK	1	49	24.71	0.296	24.29	0.269	24.33	0.271
10	QPSK	25	0	23.85	0.243	23.14	0.206	23.28	0.213
10	QPSK	25	12	23.69	0.234	23.24	0.211	23.26	0.212
10	QPSK	25	25	23.69	0.234	23.36	0.217	23.23	0.210
10	QPSK	50	0	23.58	0.228	23.27	0.212	23.23	0.210
10	16QAM	1	0	22.9	0.195	22.21	0.166	22.12	0.163
10	16QAM	1	25	23.41	0.219	22.31	0.170	22.06	0.161
10	16QAM	1	49	23.29	0.213	22.51	0.178	22.12	0.163
10	16QAM	25	0	19.91	0.098	20.34	0.108	20.27	0.106
10	16QAM	25	12	20.15	0.104	20.33	0.108	20.34	0.108
10	16QAM	25	25	20.1	0.102	20.43	0.110	20.61	0.115
10	16QAM	50	0	20.02	0.100	20.49	0.112	20.52	0.113
10	64QAM	1	0	22.81	0.191	22.34	0.171	22.21	0.166
10	64QAM	1	25	22.58	0.181	22.1	0.162	21.99	0.158
10	64QAM	1	49	22.66	0.185	22.21	0.166	22.46	0.176
10	64QAM	25	0	20.03	0.101	20.39	0.109	20.36	0.109
10	64QAM	25	12	19.99	0.100	20.52	0.113	20.33	0.108
10	64QAM	25	25	19.98	0.100	20.49	0.112	20.6	0.115
10	64QAM	50	0	19.9	0.098	20.47	0.111	20.48	0.112



LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20775		21100		21425	
Frequency (MHz)				2502.5		2535		2567.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	24.19	0.262	24.33	0.271	24.14	0.259
5	QPSK	1	12	24.36	0.273	24.34	0.272	24.17	0.261
5	QPSK	1	24	24.41	0.276	24.36	0.273	24.28	0.268
5	QPSK	12	0	23.39	0.218	23.38	0.218	23.31	0.214
5	QPSK	12	7	23.29	0.213	23.41	0.219	23.27	0.212
5	QPSK	12	13	23.3	0.214	23.29	0.213	23.35	0.216
5	QPSK	25	0	23.25	0.211	23.26	0.212	23.23	0.210
5	16QAM	1	0	22.02	0.159	22.05	0.160	22.55	0.180
5	16QAM	1	12	21.97	0.157	22.02	0.159	22.56	0.180
5	16QAM	1	24	21.93	0.156	22.05	0.160	22.57	0.181
5	16QAM	12	0	20.53	0.113	20.37	0.109	20.29	0.107
5	16QAM	12	7	20.66	0.116	20.51	0.112	20.48	0.112
5	16QAM	12	13	20.55	0.114	20.34	0.108	20.35	0.108
5	16QAM	25	0	20.53	0.113	20.3	0.107	20.11	0.103
5	64QAM	1	0	22.15	0.164	22.12	0.163	22.43	0.175
5	64QAM	1	12	22.17	0.165	22.33	0.171	22.36	0.172
5	64QAM	1	24	22.22	0.167	22.24	0.167	22.35	0.172
5	64QAM	12	0	20.39	0.109	20.34	0.108	20.26	0.106
5	64QAM	12	7	20.63	0.116	20.44	0.111	20.48	0.112
5	64QAM	12	13	20.62	0.115	20.28	0.107	20.32	0.108
5	64QAM	25	0	20.55	0.114	20.34	0.108	20.26	0.106



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23060		23095		23130	
Frequency (MHz)				704		707.5		711	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	18.8	0.076	18.87	0.077	18.83	0.076
10	QPSK	1	25	18.83	0.076	18.8	0.076	18.78	0.076
10	QPSK	1	49	18.79	0.076	18.82	0.076	18.84	0.077
10	QPSK	25	0	17.92	0.062	18.21	0.066	17.99	0.063
10	QPSK	25	12	18.07	0.064	17.95	0.062	18.02	0.063
10	QPSK	25	25	18.01	0.063	18.03	0.064	18	0.063
10	QPSK	50	0	17.98	0.063	18.02	0.063	18.07	0.064
10	16QAM	1	0	16.96	0.050	17.07	0.051	17.35	0.054
10	16QAM	1	25	16.94	0.049	17.24	0.053	16.99	0.050
10	16QAM	1	49	17.42	0.055	17.14	0.052	17.71	0.059
10	16QAM	25	0	14.28	0.027	14.22	0.026	14.3	0.027
10	16QAM	25	12	14.41	0.028	14.18	0.026	14.42	0.028
10	16QAM	25	25	14.46	0.028	14.25	0.027	14.71	0.030
10	16QAM	50	0	14.53	0.028	14.23	0.026	14.52	0.028
10	64QAM	1	0	17.12	0.052	16.45	0.044	17.25	0.053
10	64QAM	1	25	16.92	0.049	17.21	0.053	16.82	0.048
10	64QAM	1	49	16.8	0.048	17.02	0.050	16.82	0.048
10	64QAM	25	0	14.42	0.028	14.18	0.026	14.2	0.026
10	64QAM	25	12	14.44	0.028	14.1	0.026	14.43	0.028
10	64QAM	25	25	14.56	0.029	14.28	0.027	14.86	0.031
10	64QAM	50	0	14.43	0.028	14.26	0.027	14.51	0.028



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23035		23095		23155	
Frequency (MHz)				701.5		707.5		713.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	18.96	0.079	18.85	0.077	18.91	0.078
5	QPSK	1	12	18.98	0.079	18.83	0.076	18.93	0.078
5	QPSK	1	24	19	0.079	18.92	0.078	18.97	0.079
5	QPSK	12	0	17.91	0.062	17.99	0.063	18	0.063
5	QPSK	12	7	17.75	0.060	18.01	0.063	17.81	0.060
5	QPSK	12	13	18.01	0.063	18.09	0.064	17.82	0.061
5	QPSK	25	0	18.1	0.065	18.04	0.064	17.81	0.060
5	16QAM	1	0	16.64	0.046	17.35	0.054	17.44	0.055
5	16QAM	1	12	16.69	0.047	17.64	0.058	17.07	0.051
5	16QAM	1	24	16.71	0.047	17.41	0.055	17	0.050
5	16QAM	12	0	14.25	0.027	13.98	0.025	14.38	0.027
5	16QAM	12	7	14.58	0.029	14	0.025	14.59	0.029
5	16QAM	12	13	14.34	0.027	13.8	0.024	14.44	0.028
5	16QAM	25	0	14.33	0.027	13.89	0.024	14.48	0.028
5	64QAM	1	0	16.54	0.045	16.84	0.048	17.34	0.054
5	64QAM	1	12	17.2	0.052	16.89	0.049	16.94	0.049
5	64QAM	1	24	17.18	0.052	16.81	0.048	17.02	0.050
5	64QAM	12	0	14.1	0.026	13.99	0.025	14.36	0.027
5	64QAM	12	7	14.48	0.028	14.03	0.025	14.59	0.029
5	64QAM	12	13	14.4	0.028	13.68	0.023	14.41	0.028
5	64QAM	25	0	14.28	0.027	13.92	0.025	14.35	0.027



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23025		23095		23165	
Frequency (MHz)				700.5		707.5		714.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	18.92	0.078	18.83	0.076	18.96	0.079
3	QPSK	1	8	18.87	0.077	19.01	0.080	19.08	0.081
3	QPSK	1	14	19.06	0.081	18.78	0.076	18.95	0.079
3	QPSK	8	0	18.2	0.066	17.87	0.061	18.06	0.064
3	QPSK	8	4	18.04	0.064	17.99	0.063	18.09	0.064
3	QPSK	8	7	18.04	0.064	18.18	0.066	17.99	0.063
3	QPSK	15	0	17.93	0.062	17.96	0.063	18.06	0.064
3	16QAM	1	0	17.25	0.053	17.37	0.055	17.24	0.053
3	16QAM	1	8	17.76	0.060	17.43	0.055	17.29	0.054
3	16QAM	1	14	17.64	0.058	17.21	0.053	17.63	0.058
3	16QAM	8	0	14.26	0.027	14.1	0.026	14.39	0.027
3	16QAM	8	4	14.5	0.028	14.1	0.026	14.54	0.028
3	16QAM	8	7	14.45	0.028	13.84	0.024	14.45	0.028
3	16QAM	15	0	14.37	0.027	13.98	0.025	14.34	0.027
3	64QAM	1	0	17.16	0.052	16.74	0.047	17.02	0.050
3	64QAM	1	8	16.93	0.049	16.74	0.047	16.61	0.046
3	64QAM	1	14	17.01	0.050	17.04	0.051	16.51	0.045
3	64QAM	8	0	14.38	0.027	13.97	0.025	14.43	0.028
3	64QAM	8	4	14.34	0.027	14.01	0.025	14.42	0.028
3	64QAM	8	7	14.33	0.027	13.86	0.024	14.34	0.027
3	64QAM	15	0	14.25	0.027	14.06	0.025	14.41	0.028





LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23017		23095		23173	
Frequency (MHz)				699.7		707.5		715.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	19.03	0.080	18.76	0.075	18.96	0.079
1.4	QPSK	1	3	19.01	0.080	18.87	0.077	19.09	0.081
1.4	QPSK	1	5	18.89	0.077	18.85	0.077	18.99	0.079
1.4	QPSK	3	0	19.11	0.081	19.06	0.081	19.12	0.082
1.4	QPSK	3	1	19.05	0.080	19.11	0.081	19.11	0.081
1.4	QPSK	3	3	19.02	0.080	18.99	0.079	19.15	0.082
1.4	QPSK	6	0	18.04	0.064	17.98	0.063	18.04	0.064
1.4	16QAM	1	0	16.84	0.048	17.05	0.051	16.84	0.048
1.4	16QAM	1	3	17.22	0.053	17.32	0.054	16.85	0.048
1.4	16QAM	1	5	17.46	0.056	16.78	0.048	16.89	0.049
1.4	16QAM	3	0	17.29	0.054	17.23	0.053	17.04	0.051
1.4	16QAM	3	1	17.29	0.054	17.1	0.051	17.17	0.052
1.4	16QAM	3	3	17.24	0.053	17.1	0.051	17.26	0.053
1.4	16QAM	6	0	14.21	0.026	14.03	0.025	14.46	0.028
1.4	64QAM	1	0	17.15	0.052	16.81	0.048	16.7	0.047
1.4	64QAM	1	3	16.87	0.049	16.82	0.048	16.86	0.049
1.4	64QAM	1	5	16.82	0.048	17.05	0.051	16.5	0.045
1.4	64QAM	3	0	17.41	0.055	17.12	0.052	17.11	0.051
1.4	64QAM	3	1	17.33	0.054	17.06	0.051	17.19	0.052
1.4	64QAM	3	3	17.18	0.052	17.31	0.054	17.31	0.054
1.4	64QAM	6	0	14.11	0.026	13.89	0.026	14.37	0.027



LTE Band 17				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23780		23790		23800	
Frequency (MHz)				709		710		711	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	18.87	0.077	18.9	0.078	18.88	0.077
10	QPSK	1	25	18.85	0.077	18.79	0.076	18.84	0.077
10	QPSK	1	49	18.81	0.076	18.8	0.076	18.74	0.075
10	QPSK	25	0	18.17	0.066	18.39	0.069	18.18	0.066
10	QPSK	25	12	17.98	0.063	18.08	0.064	18.03	0.064
10	QPSK	25	25	17.87	0.061	18.06	0.064	18	0.063
10	QPSK	50	0	18.07	0.064	17.69	0.059	17.92	0.062
10	16QAM	1	0	17.28	0.053	17.27	0.053	16.99	0.050
10	16QAM	1	25	16.93	0.049	17.49	0.056	16.99	0.050
10	16QAM	1	49	17.39	0.055	17.12	0.052	17.36	0.054
10	16QAM	25	0	14.46	0.028	14.24	0.027	14.32	0.027
10	16QAM	25	12	14.43	0.028	14.46	0.028	14.46	0.028
10	16QAM	25	25	14.75	0.030	14.64	0.029	14.74	0.030
10	16QAM	50	0	14.64	0.029	14.54	0.028	14.58	0.029
10	64QAM	1	0	16.56	0.045	16.91	0.049	16.97	0.050
10	64QAM	1	25	17.19	0.052	17.31	0.054	16.71	0.047
10	64QAM	1	49	17.16	0.052	16.8	0.048	17.34	0.054
10	64QAM	25	0	14.41	0.028	14.31	0.027	14.26	0.027
10	64QAM	25	12	14.43	0.028	14.39	0.027	14.48	0.028
10	64QAM	25	25	14.71	0.030	14.79	0.030	14.73	0.030
10	64QAM	50	0	14.55	0.029	14.54	0.028	14.55	0.029



LTE Band 17				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23755		23790		23825	
Frequency (MHz)				706.5		710		713.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	18.98	0.079	18.8	0.076	18.83	0.076
5	QPSK	1	12	18.88	0.077	18.87	0.077	18.84	0.077
5	QPSK	1	24	18.98	0.079	19.03	0.080	18.91	0.078
5	QPSK	12	0	17.74	0.059	18.14	0.065	17.87	0.061
5	QPSK	12	7	17.76	0.060	18.03	0.064	17.87	0.061
5	QPSK	12	13	17.84	0.061	17.98	0.063	17.86	0.061
5	QPSK	25	0	17.94	0.062	17.89	0.062	17.88	0.061
5	16QAM	1	0	17.29	0.054	17.06	0.051	17.54	0.057
5	16QAM	1	12	16.98	0.050	17.14	0.052	17.13	0.052
5	16QAM	1	24	17.2	0.052	17.25	0.053	17.23	0.053
5	16QAM	12	0	14.26	0.027	14.08	0.026	14.43	0.028
5	16QAM	12	7	14.42	0.028	14.39	0.027	14.65	0.029
5	16QAM	12	13	14.13	0.026	14.39	0.027	14.4	0.028
5	16QAM	25	0	14.29	0.027	14.21	0.026	14.47	0.028
5	64QAM	1	0	17.45	0.056	16.96	0.050	17.12	0.052
5	64QAM	1	12	16.9	0.049	17.04	0.051	16.72	0.047
5	64QAM	1	24	16.97	0.050	17.2	0.052	16.86	0.049
5	64QAM	12	0	14.27	0.027	14.11	0.026	14.4	0.028
5	64QAM	12	7	14.34	0.027	14.41	0.028	14.6	0.029
5	64QAM	12	13	14.16	0.026	14.31	0.027	14.46	0.028
5	64QAM	25	0	14.2	0.026	14.23	0.026	14.4	0.028



LTE Band 38				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37850		38000		38150	
Frequency (MHz)				2580		2595		2610	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	24.27	0.267	24.39	0.275	24.22	0.264
20	QPSK	1	49	24.34	0.272	24.31	0.270	24.23	0.265
20	QPSK	1	99	24.28	0.268	24.34	0.272	24.22	0.264
20	QPSK	50	0	23.45	0.221	23.61	0.230	23.46	0.222
20	QPSK	50	24	23.43	0.220	23.41	0.219	23.59	0.229
20	QPSK	50	50	23.42	0.220	23.47	0.222	23.52	0.225
20	QPSK	100	0	23.54	0.226	23.48	0.223	23.58	0.228
20	16QAM	1	0	22.11	0.163	22.18	0.165	22.01	0.159
20	16QAM	1	49	22.05	0.160	22	0.158	22.24	0.167
20	16QAM	1	99	22.06	0.161	22.03	0.160	22.09	0.162
20	16QAM	50	0	20.45	0.111	20.98	0.125	20.89	0.123
20	16QAM	50	24	20.31	0.107	20.83	0.121	20.78	0.120
20	16QAM	50	50	20.38	0.109	20.87	0.122	20.92	0.124
20	16QAM	100	0	20.67	0.117	20.83	0.121	20.84	0.121
20	64QAM	1	0	21.91	0.155	21.7	0.148	21.49	0.141
20	64QAM	1	49	21.92	0.156	21.68	0.147	21.77	0.150
20	64QAM	1	99	21.89	0.155	21.75	0.150	21.68	0.147
20	64QAM	50	0	20.59	0.115	20.85	0.122	20.84	0.121
20	64QAM	50	24	20.5	0.112	20.71	0.118	20.74	0.119
20	64QAM	50	50	20.59	0.115	20.74	0.119	20.87	0.122
20	64QAM	100	0	20.65	0.116	20.87	0.122	20.94	0.124



LTE Band 38				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37825		38000		38175	
Frequency (MHz)				2577.5		2595		2612.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	24.31	0.270	24.34	0.272	24.30	0.269
15	QPSK	1	37	24.26	0.267	24.27	0.267	24.26	0.267
15	QPSK	1	74	24.24	0.265	24.25	0.266	24.25	0.266
15	QPSK	36	0	23.54	0.226	23.62	0.230	23.66	0.232
15	QPSK	36	20	23.47	0.222	23.51	0.224	23.55	0.226
15	QPSK	36	39	23.57	0.228	23.50	0.224	23.46	0.222
15	QPSK	75	0	23.64	0.231	23.42	0.220	23.55	0.226
15	16QAM	1	0	22.15	0.164	21.91	0.155	22.07	0.161
15	16QAM	1	37	22.10	0.162	22.04	0.160	22.13	0.163
15	16QAM	1	74	22.19	0.166	22.13	0.163	22.45	0.176
15	16QAM	36	0	20.47	0.111	20.77	0.119	20.63	0.116
15	16QAM	36	20	20.30	0.107	20.54	0.113	20.46	0.111
15	16QAM	36	39	20.22	0.105	20.43	0.110	20.43	0.110
15	16QAM	75	0	20.36	0.109	20.64	0.116	20.57	0.114
15	64QAM	1	0	22.02	0.159	21.80	0.151	21.68	0.147
15	64QAM	1	37	21.95	0.157	21.49	0.141	21.77	0.150
15	64QAM	1	74	21.85	0.153	21.98	0.158	21.68	0.147
15	64QAM	36	0	20.44	0.111	21.03	0.127	20.67	0.117
15	64QAM	36	20	20.30	0.107	20.79	0.120	20.50	0.112
15	64QAM	36	39	20.18	0.104	20.68	0.117	20.45	0.111
15	64QAM	75	0	20.30	0.107	20.84	0.121	20.58	0.114



LTE Band 38				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37800		38000		38200	
Frequency (MHz)				2575		2595		2615	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	24.30	0.269	24.33	0.271	24.32	0.270
10	QPSK	1	25	24.27	0.267	24.25	0.266	24.25	0.266
10	QPSK	1	49	24.21	0.264	24.22	0.264	24.20	0.263
10	QPSK	25	0	23.54	0.226	23.53	0.225	23.50	0.224
10	QPSK	25	12	23.53	0.225	23.51	0.224	23.51	0.224
10	QPSK	25	25	23.57	0.228	23.53	0.225	23.59	0.229
10	QPSK	50	0	23.58	0.228	23.76	0.238	23.55	0.226
10	16QAM	1	0	22.19	0.166	22.19	0.166	22.26	0.168
10	16QAM	1	25	22.14	0.164	22.03	0.160	22.16	0.164
10	16QAM	1	49	22.20	0.166	22.02	0.159	22.11	0.163
10	16QAM	25	0	20.36	0.109	20.86	0.122	20.81	0.121
10	16QAM	25	12	20.45	0.111	20.84	0.121	20.82	0.121
10	16QAM	25	25	20.45	0.111	20.85	0.122	20.90	0.123
10	16QAM	50	0	20.39	0.109	20.85	0.122	20.85	0.122
10	64QAM	1	0	21.85	0.153	21.72	0.149	21.97	0.157
10	64QAM	1	25	21.90	0.155	21.73	0.149	21.58	0.144
10	64QAM	1	49	22.03	0.160	21.73	0.149	21.68	0.147
10	64QAM	25	0	20.54	0.113	20.77	0.119	20.76	0.119
10	64QAM	25	12	20.57	0.114	20.76	0.119	20.78	0.120
10	64QAM	25	25	20.58	0.114	20.73	0.118	20.68	0.117
10	64QAM	50	0	20.50	0.112	20.72	0.118	20.63	0.116



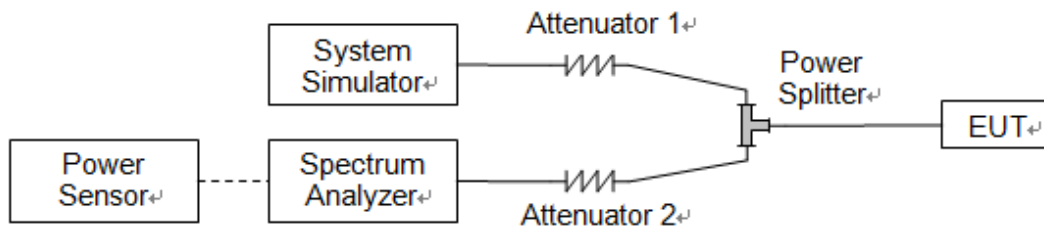
LTE Band 38				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37775		38000		38225	
Frequency (MHz)				2572.5		2595		2617.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	24.27	0.267	24.31	0.270	24.28	0.268
5	QPSK	1	12	24.25	0.266	24.26	0.267	24.26	0.267
5	QPSK	1	24	24.24	0.265	24.22	0.264	24.23	0.265
5	QPSK	12	0	23.61	0.230	23.49	0.223	23.46	0.222
5	QPSK	12	7	23.63	0.231	23.57	0.228	23.54	0.226
5	QPSK	12	13	23.52	0.225	23.50	0.224	23.36	0.217
5	QPSK	25	0	23.52	0.225	23.48	0.223	23.58	0.228
5	16QAM	1	0	22.16	0.164	22.15	0.164	22.23	0.167
5	16QAM	1	12	22.12	0.163	22.07	0.161	22.22	0.167
5	16QAM	1	24	22.02	0.159	22.20	0.166	22.23	0.167
5	16QAM	12	0	20.16	0.104	20.71	0.118	20.59	0.115
5	16QAM	12	7	20.26	0.106	20.79	0.120	20.67	0.117
5	16QAM	12	13	20.08	0.102	20.61	0.115	20.49	0.112
5	16QAM	25	0	20.20	0.105	20.69	0.117	20.58	0.114
5	64QAM	1	0	21.99	0.158	21.87	0.154	21.89	0.155
5	64QAM	1	12	21.70	0.148	21.77	0.150	21.91	0.155
5	64QAM	1	24	21.88	0.154	21.70	0.148	21.95	0.157
5	64QAM	12	0	20.38	0.109	20.63	0.116	20.57	0.114
5	64QAM	12	7	20.47	0.111	20.73	0.118	20.64	0.116
5	64QAM	12	13	20.28	0.107	20.53	0.113	20.46	0.111
5	64QAM	25	0	20.26	0.106	20.56	0.114	20.53	0.113

## 2.2. Occupied Bandwidth

### 2.2.1. Requirement

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

### 2.2.2. Test Description



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

### 2.2.3. Test Procedure

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

### 2.2.4. Test Result





LTE Band 2				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.24
	Low	16QAM	1.10	1.25
	Low	64QAM	1.10	1.25
	Mid	QPSK	1.10	1.24
	Mid	16QAM	1.10	1.25
	Mid	64QAM	1.10	1.25
	High	QPSK	1.10	1.24
	High	16QAM	1.10	1.26
	High	64QAM	1.10	1.25
3	Low	QPSK	2.72	3.05
	Low	16QAM	2.71	3.05
	Low	64QAM	2.72	3.06
	Mid	QPSK	2.72	3.04
	Mid	16QAM	2.72	3.04
	Mid	64QAM	2.72	3.05
	High	QPSK	2.72	3.05
	High	16QAM	2.71	3.06
	High	64QAM	2.72	3.07
5	Low	QPSK	4.45	4.78
	Low	16QAM	4.42	4.70
	Low	64QAM	4.39	4.73
	Mid	QPSK	4.46	4.81
	Mid	16QAM	4.43	4.88
	Mid	64QAM	4.40	4.77
	High	QPSK	4.50	4.97
	High	16QAM	4.50	4.99
	High	64QAM	4.50	4.96
10	Low	QPSK	9.00	9.89
	Low	16QAM	8.82	9.30
	Low	64QAM	9.01	9.73
	Mid	QPSK	9.01	9.86
	Mid	16QAM	8.99	9.86
	Mid	64QAM	9.01	9.89
	High	QPSK	9.02	9.93
	High	16QAM	8.95	9.44
	High	64QAM	8.99	9.89



15	Low	QPSK	13.46	14.58
	Low	16QAM	13.48	14.91
	Low	64QAM	13.50	14.89
	Mid	QPSK	13.37	14.25
	Mid	16QAM	13.44	14.15
	Mid	64QAM	13.48	14.33
	High	QPSK	13.50	14.86
	High	16QAM	13.48	14.95
	High	64QAM	13.46	15.02
20	Low	QPSK	17.99	19.58
	Low	16QAM	18.03	19.76
	Low	64QAM	18.00	19.63
	Mid	QPSK	18.04	19.87
	Mid	16QAM	18.10	19.79
	Mid	64QAM	18.05	19.80
	High	QPSK	17.98	19.84
	High	16QAM	17.98	19.84
	High	64QAM	18.02	19.75



LTE Band 4				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.24
	Low	16QAM	1.10	1.25
	Low	64QAM	1.10	1.25
	Mid	QPSK	1.10	1.24
	Mid	16QAM	1.10	1.25
	Mid	64QAM	1.10	1.25
	High	QPSK	1.10	1.25
	High	16QAM	1.09	1.25
	High	64QAM	1.09	1.22
3	Low	QPSK	2.72	3.05
	Low	16QAM	2.71	3.06
	Low	64QAM	2.72	3.07
	Mid	QPSK	2.75	2.96
	Mid	16QAM	2.77	2.90
	Mid	64QAM	2.75	2.96
	High	QPSK	2.72	3.04
	High	16QAM	2.72	3.06
	High	64QAM	2.72	3.05
5	Low	QPSK	4.47	4.84
	Low	16QAM	4.42	4.69
	Low	64QAM	4.43	4.73
	Mid	QPSK	4.45	4.81
	Mid	16QAM	4.41	4.77
	Mid	64QAM	4.40	4.80
	High	QPSK	4.50	4.97
	High	16QAM	4.50	4.98
	High	64QAM	4.49	4.98
10	Low	QPSK	8.97	9.42
	Low	16QAM	8.91	9.48
	Low	64QAM	8.77	9.39
	Mid	QPSK	8.96	9.68
	Mid	16QAM	8.82	9.35
	Mid	64QAM	9.00	9.86
	High	QPSK	8.97	9.50
	High	16QAM	8.96	9.59
	High	64QAM	8.94	9.45



15	Low	QPSK	13.30	13.97
	Low	16QAM	13.28	14.29
	Low	64QAM	13.50	14.93
	Mid	QPSK	13.49	14.93
	Mid	16QAM	13.48	14.90
	Mid	64QAM	13.47	14.94
	High	QPSK	13.49	14.85
	High	16QAM	13.28	14.13
	High	64QAM	13.29	14.03
20	Low	QPSK	17.97	19.65
	Low	16QAM	17.99	19.31
	Low	64QAM	17.98	19.75
	Mid	QPSK	19.97	19.74
	Mid	16QAM	17.96	19.82
	Mid	64QAM	17.98	19.68
	High	QPSK	17.86	19.08
	High	16QAM	17.95	18.99
	High	64QAM	18.02	19.74



LTE Band 5				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.25
	Low	16QAM	1.10	1.25
	Low	64QAM	1.10	1.24
	Mid	QPSK	1.10	1.24
	Mid	16QAM	1.10	1.25
	Mid	64QAM	1.10	1.25
	High	QPSK	1.10	1.25
	High	16QAM	1.10	1.24
	High	64QAM	1.10	1.25
3	Low	QPSK	2.75	2.94
	Low	16QAM	2.79	2.93
	Low	64QAM	2.79	3.02
	Mid	QPSK	2.71	3.05
	Mid	16QAM	2.72	3.05
	Mid	64QAM	2.72	3.06
	High	QPSK	2.72	3.00
	High	16QAM	2.72	3.05
	High	64QAM	2.72	3.06
5	Low	QPSK	4.45	4.85
	Low	16QAM	4.41	4.69
	Low	64QAM	4.40	4.75
	Mid	QPSK	4.49	4.74
	Mid	16QAM	4.42	4.83
	Mid	64QAM	4.42	4.82
	High	QPSK	4.45	4.82
	High	16QAM	4.45	4.74
	High	64QAM	4.40	4.67
10	Low	QPSK	9.04	9.84
	Low	16QAM	8.97	9.84
	Low	64QAM	8.82	9.43
	Mid	QPSK	9.02	9.82
	Mid	16QAM	8.96	9.81
	Mid	64QAM	8.97	9.83
	High	QPSK	8.99	9.85
	High	16QAM	8.97	9.86
	High	64QAM	8.89	9.29



LTE Band 7				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.52	4.98
	Low	16QAM	4.50	4.99
	Low	64QAM	4.49	4.96
	Mid	QPSK	4.50	4.96
	Mid	16QAM	4.51	4.99
	Mid	64QAM	4.49	4.97
	High	QPSK	4.50	4.97
	High	16QAM	4.50	5.01
	High	64QAM	4.49	4.98
10	Low	QPSK	8.99	9.95
	Low	16QAM	8.98	9.83
	Low	64QAM	9.01	9.85
	Mid	QPSK	9.02	9.96
	Mid	16QAM	8.97	9.91
	Mid	64QAM	8.98	9.88
	High	QPSK	9.01	9.97
	High	16QAM	8.98	9.83
	High	64QAM	9.01	9.90
15	Low	QPSK	13.46	15.01
	Low	16QAM	13.49	14.93
	Low	64QAM	13.49	15.0
	Mid	QPSK	13.49	14.89
	Mid	16QAM	13.48	15.08
	Mid	64QAM	13.50	14.91
	High	QPSK	13.49	14.96
	High	16QAM	13.49	14.97
	High	64QAM	13.51	14.91
20	Low	QPSK	18.02	19.88
	Low	16QAM	18.05	19.69
	Low	64QAM	18.04	19.74
	Mid	QPSK	18.00	19.78
	Mid	16QAM	18.06	19.80
	Mid	64QAM	18.03	19.89
	High	QPSK	17.99	19.71
	High	16QAM	18.00	19.78
	High	64QAM	18.02	19.75



LTE Band 12				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.25
	Low	16QAM	1.10	1.25
	Low	64QAM	1.10	1.25
	Mid	QPSK	1.10	1.25
	Mid	16QAM	1.10	1.25
	Mid	64QAM	1.10	1.25
	High	QPSK	1.10	1.24
	High	16QAM	1.10	1.25
	High	64QAM	1.10	1.25
3	Low	QPSK	2.78	3.04
	Low	16QAM	2.79	3.01
	Low	64QAM	2.76	2.99
	Mid	QPSK	2.72	3.12
	Mid	16QAM	2.72	3.05
	Mid	64QAM	2.76	2.89
	High	QPSK	2.72	3.06
	High	16QAM	2.72	3.13
	High	64QAM	2.78	3.00
5	Low	QPSK	4.45	4.85
	Low	16QAM	4.46	4.83
	Low	64QAM	4.43	4.81
	Mid	QPSK	4.51	4.96
	Mid	16QAM	4.41	4.72
	Mid	64QAM	4.40	4.68
	High	QPSK	4.46	4.82
	High	16QAM	4.41	4.72
	High	64QAM	4.40	4.73
10	Low	QPSK	8.96	9.43
	Low	16QAM	8.94	9.55
	Low	64QAM	8.96	9.44
	Mid	QPSK	9.01	9.64
	Mid	16QAM	8.98	9.87
	Mid	64QAM	8.94	9.41
	High	QPSK	9.02	9.96
	High	16QAM	8.98	9.81
	High	64QAM	9.02	9.94



LTE Band 17				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.46	4.80
	Low	16QAM	4.41	4.80
	Low	64QAM	4.44	4.89
	Mid	QPSK	4.46	4.75
	Mid	16QAM	4.41	4.81
	Mid	64QAM	4.40	4.80
	High	QPSK	4.46	4.81
	High	16QAM	4.42	4.79
	High	64QAM	4.40	4.75
10	Low	QPSK	9.03	9.78
	Low	16QAM	8.97	9.84
	Low	64QAM	8.99	9.88
	Mid	QPSK	8.99	9.59
	Mid	16QAM	8.93	9.40
	Mid	64QAM	9.00	9.87
	High	QPSK	9.03	9.95
	High	16QAM	8.97	9.86
	High	64QAM	8.98	9.60





LTE Band 38				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.51	5.06
	Low	16QAM	4.51	4.96
	Low	64QAM	4.49	4.96
	Mid	QPSK	4.50	4.98
	Mid	16QAM	4.50	4.99
	Mid	64QAM	4.50	4.95
	High	QPSK	4.50	4.98
	High	16QAM	4.50	5.00
	High	64QAM	4.50	4.94
10	Low	QPSK	9.00	10.00
	Low	16QAM	8.98	9.85
	Low	64QAM	8.99	9.86
	Mid	QPSK	9.01	9.96
	Mid	16QAM	8.98	9.90
	Mid	64QAM	8.98	9.80
	High	QPSK	9.00	9.82
	High	16QAM	8.97	9.88
	High	64QAM	8.98	9.84
15	Low	QPSK	13.49	14.94
	Low	16QAM	13.50	14.79
	Low	64QAM	13.46	14.72
	Mid	QPSK	13.52	15.03
	Mid	16QAM	13.49	14.88
	Mid	64QAM	13.46	14.74
	High	QPSK	13.49	14.93
	High	16QAM	13.50	14.77
	High	64QAM	13.47	14.81
20	Low	QPSK	18.04	19.95
	Low	16QAM	17.99	19.74
	Low	64QAM	17.99	19.69
	Mid	QPSK	18.03	19.90
	Mid	16QAM	17.98	19.64
	Mid	64QAM	18.01	19.68
	High	QPSK	18.00	19.88
	High	16QAM	17.98	19.74
	High	64QAM	18.00	19.93



Band2 / 1.4MHz / Low CH / QPSK



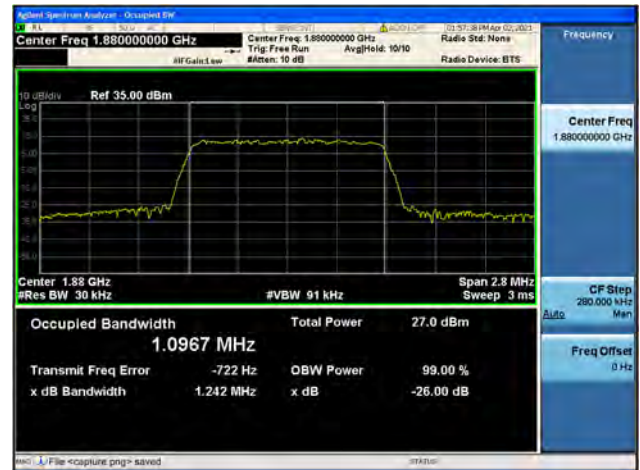
Band2 / 1.4MHz / Low CH / 16QAM



Band2 / 1.4MHz / Low CH / 64QAM



Band2 / 1.4MHz / Mid CH / QPSK



Band2 / 1.4MHz / Mid CH / 16QAM



Band2 / 1.4MHz / Mid CH / 64QAM

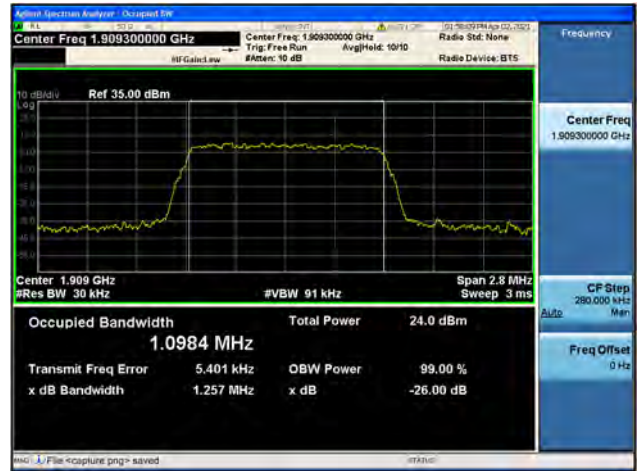




Band2 / 1.4MHz / High CH / QPSK



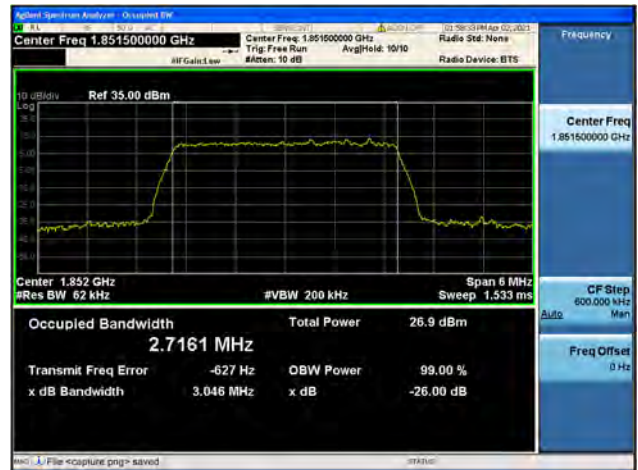
Band2 / 1.4MHz / High CH / 16QAM



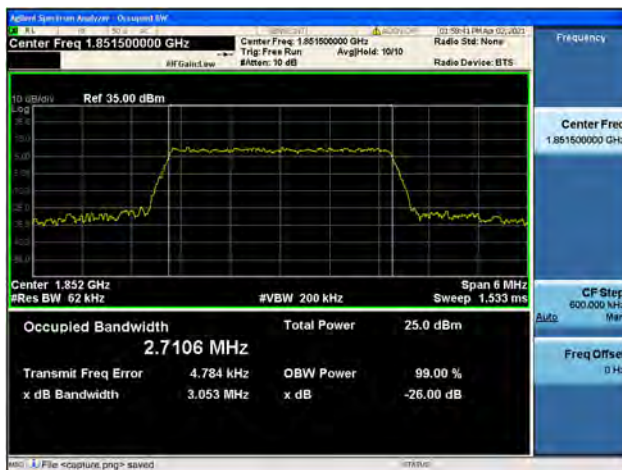
Band2 / 1.4MHz / High CH / 64QAM



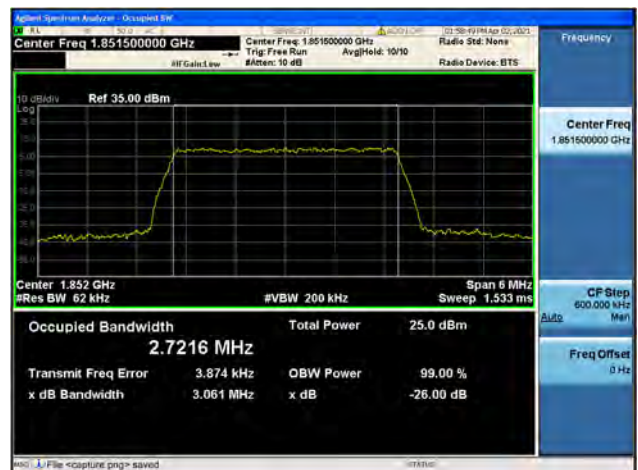
Band2 / 3MHz / Low CH / QPSK

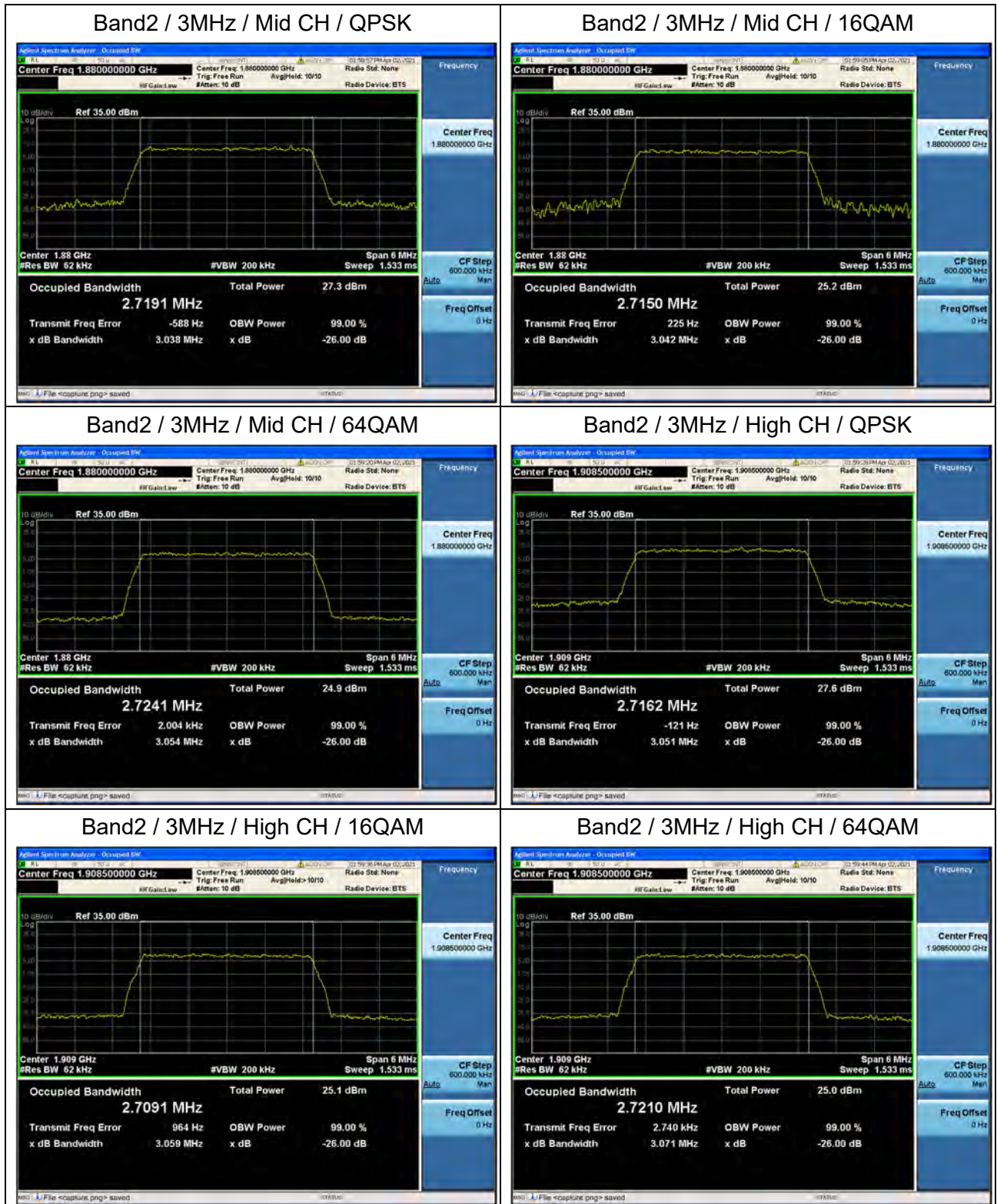


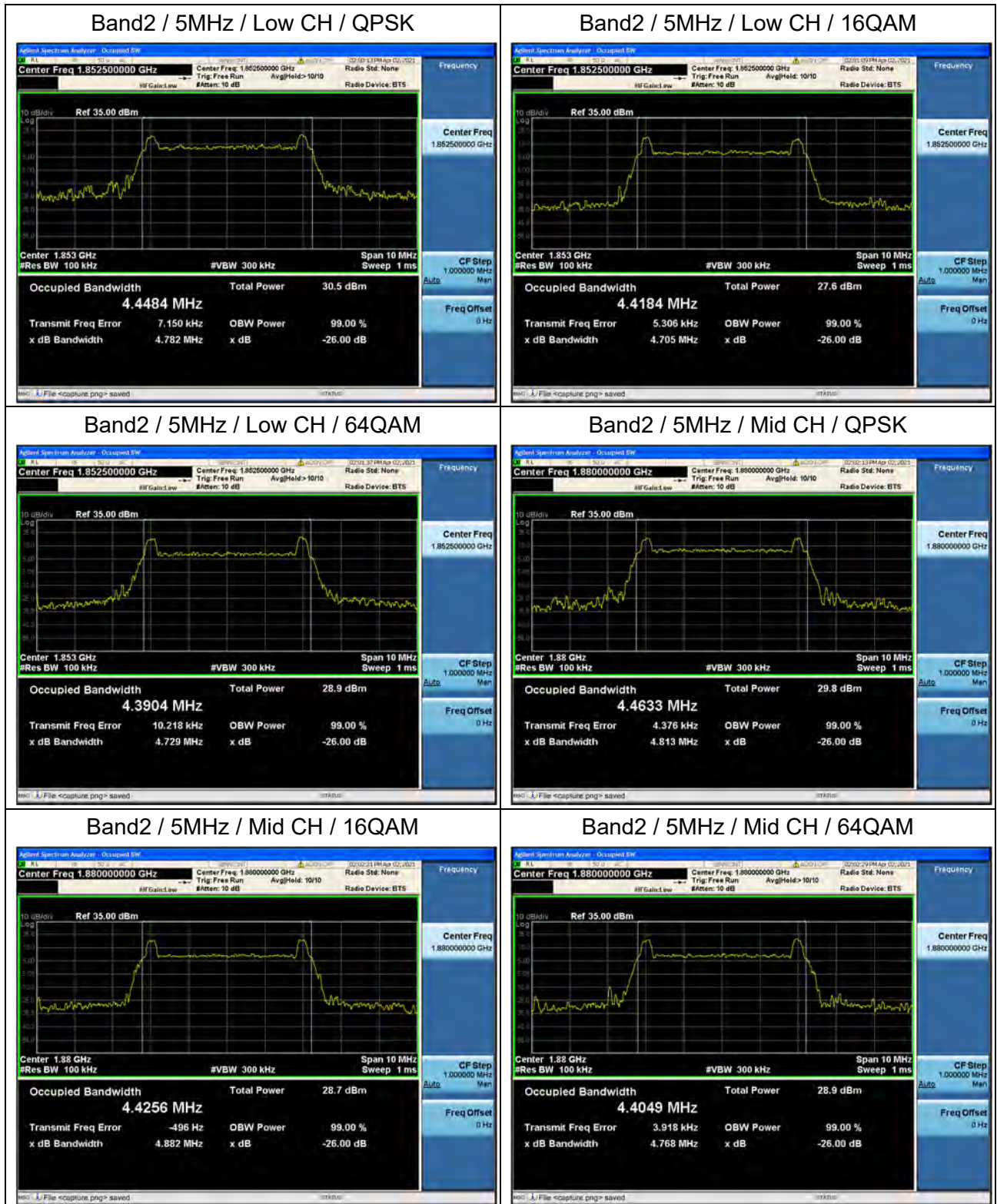
Band2 / 3MHz / Low CH / 16QAM

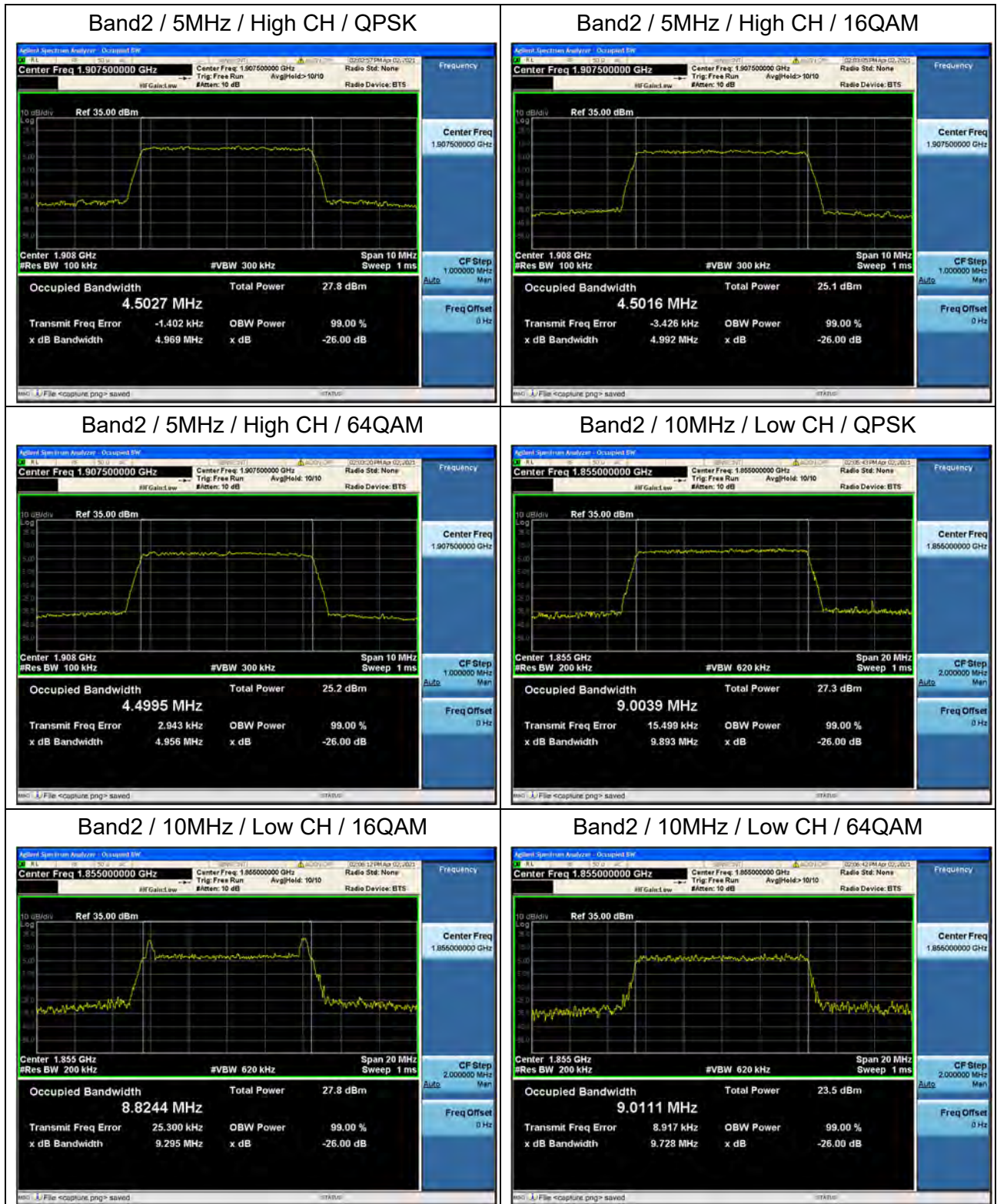


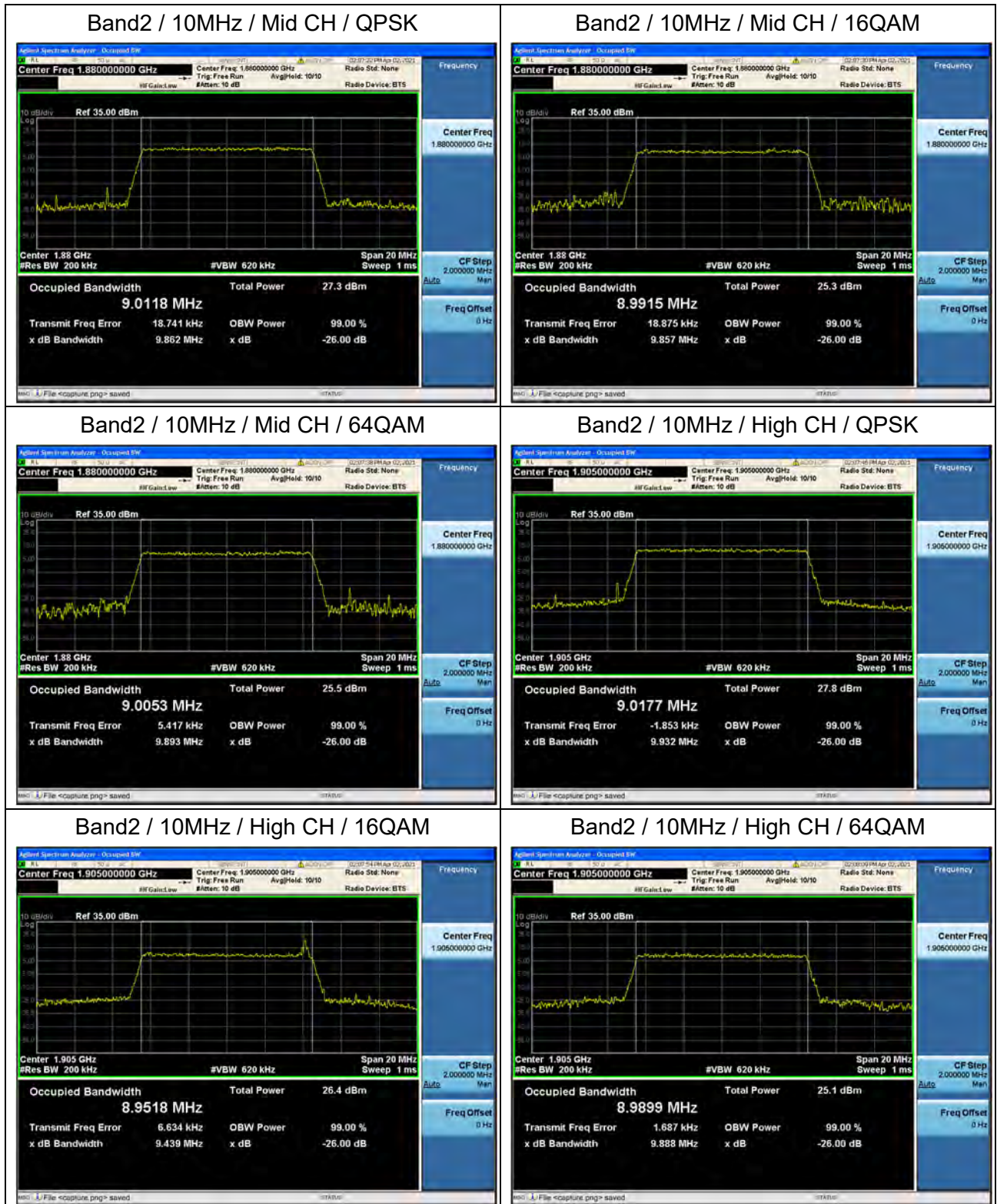
Band2 / 3MHz / Low CH / 64QAM

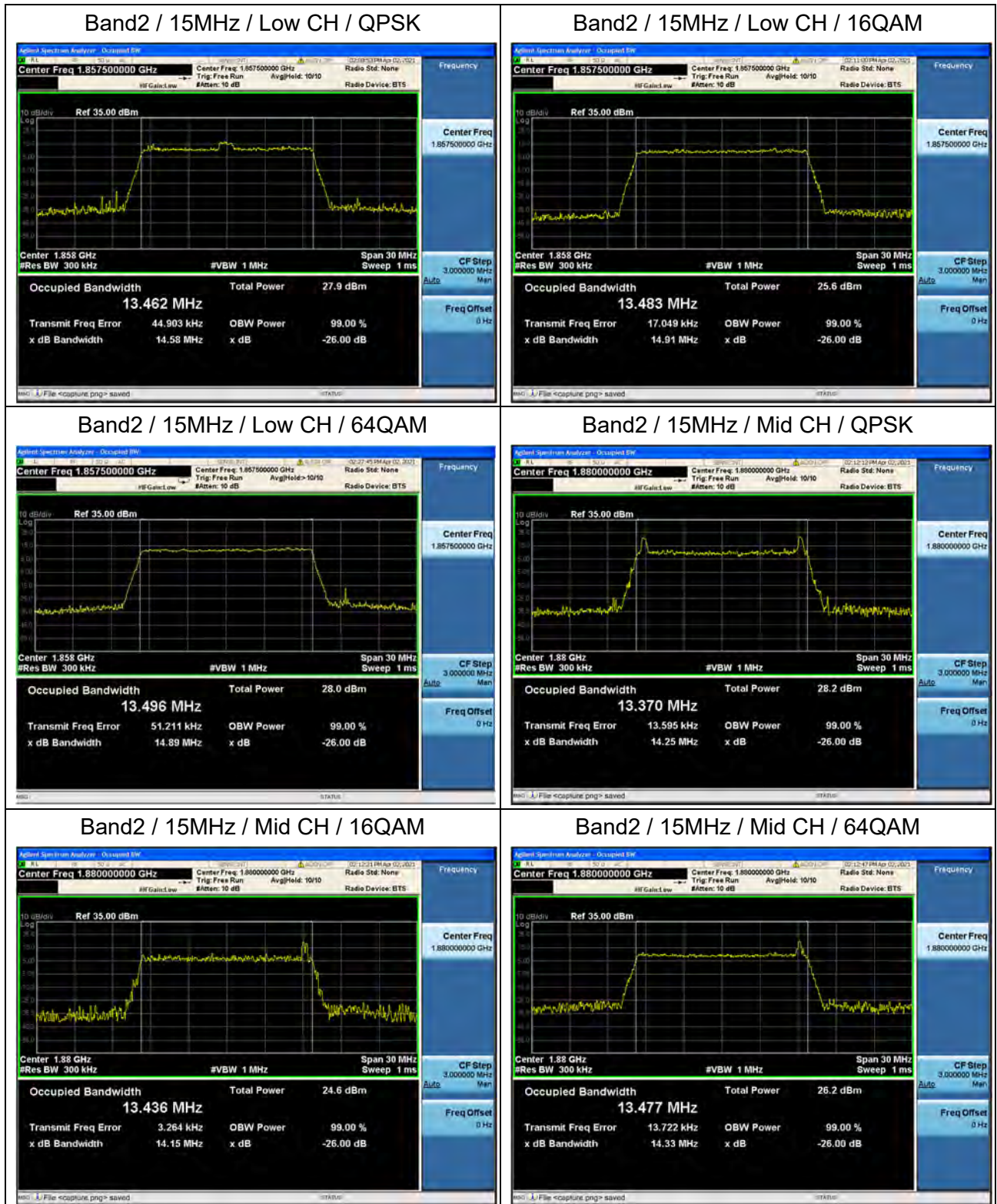




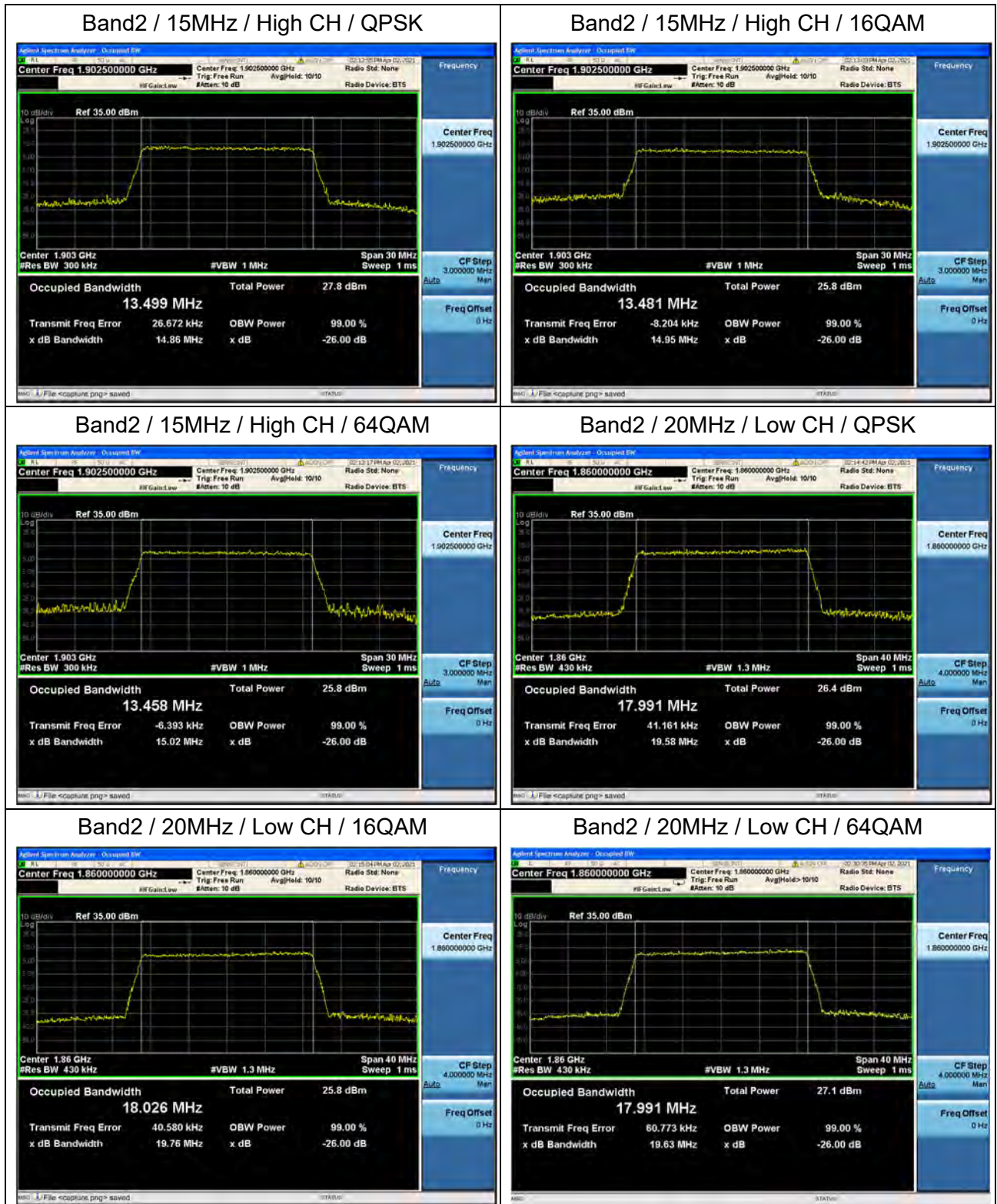


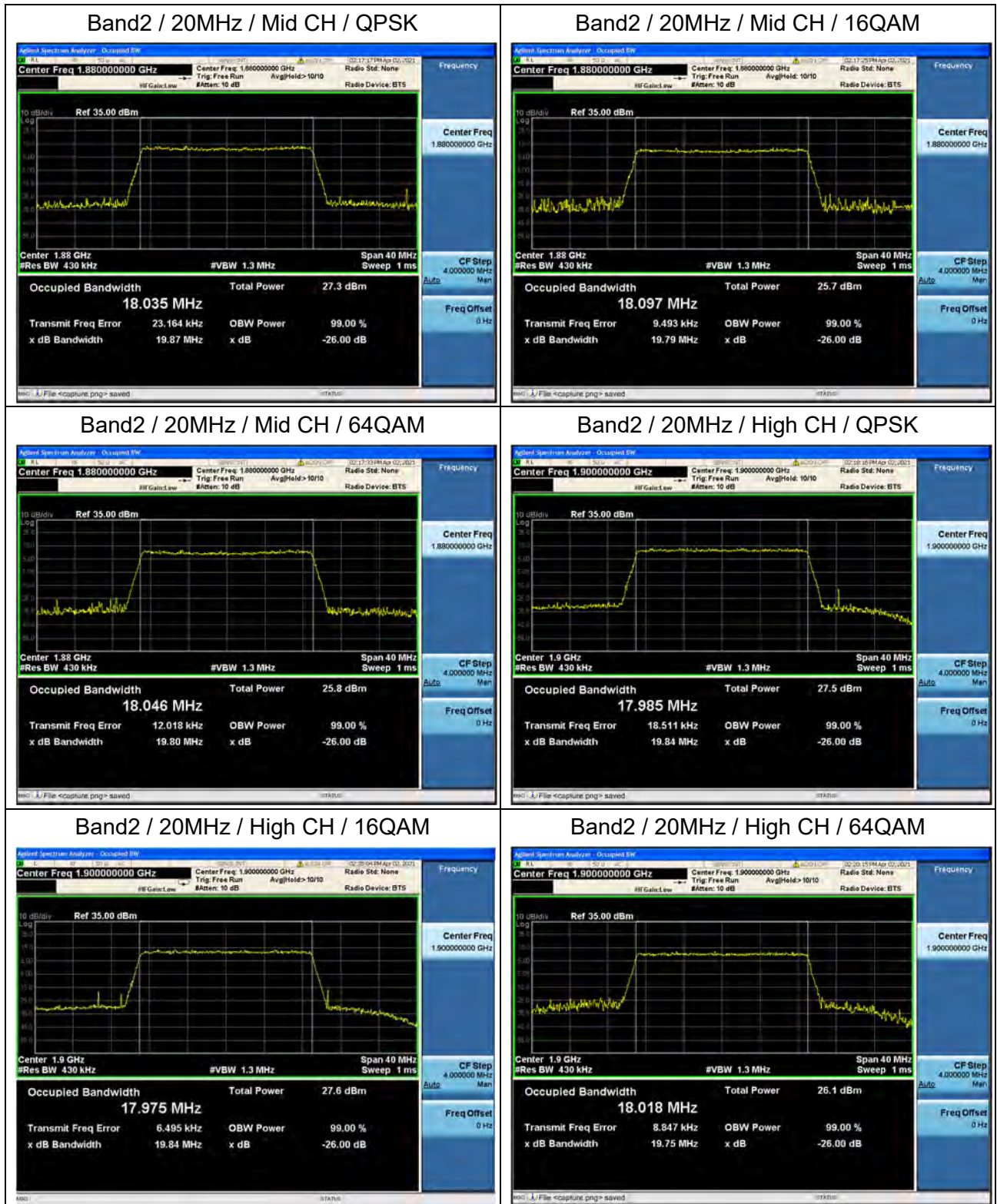






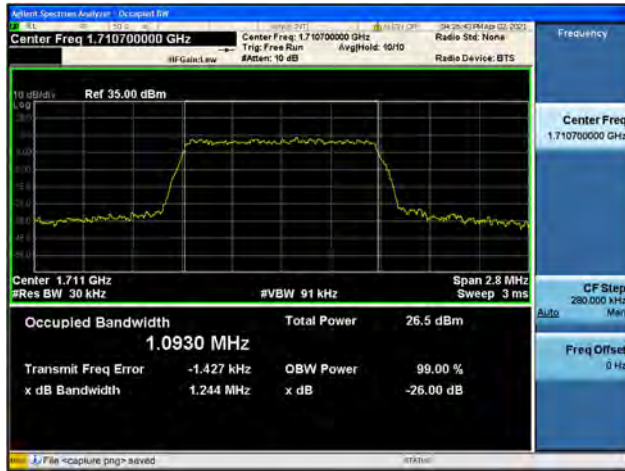








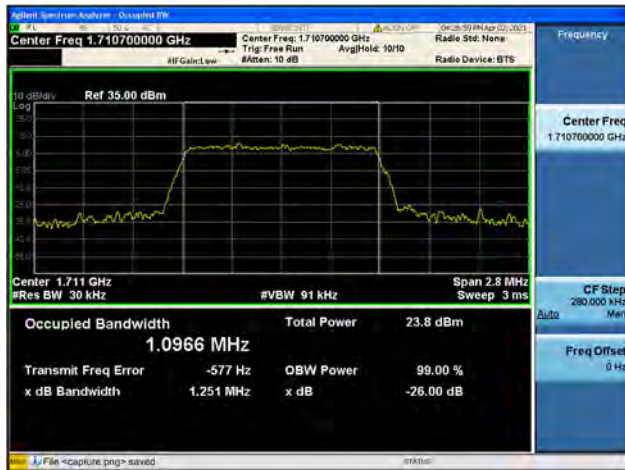
Band4 / 1.4MHz / Low CH / QPSK



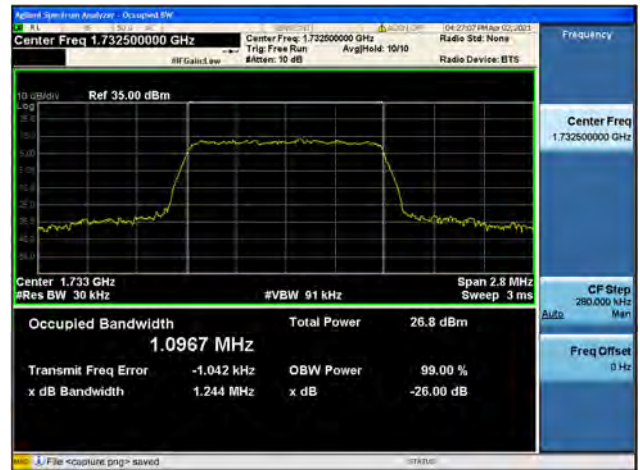
Band4 / 1.4MHz / Low CH / 16QAM



Band4 / 1.4MHz / Low CH / 64QAM



Band4 / 1.4MHz / Mid CH / QPSK



Band4 / 1.4MHz / Mid CH / 16QAM

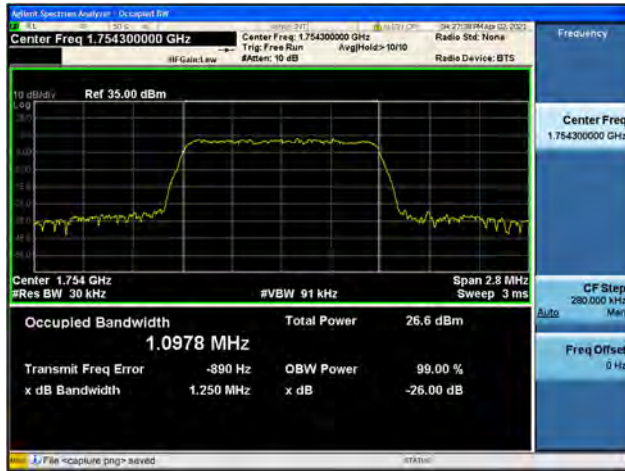


Band4 / 1.4MHz / Mid CH / 64QAM

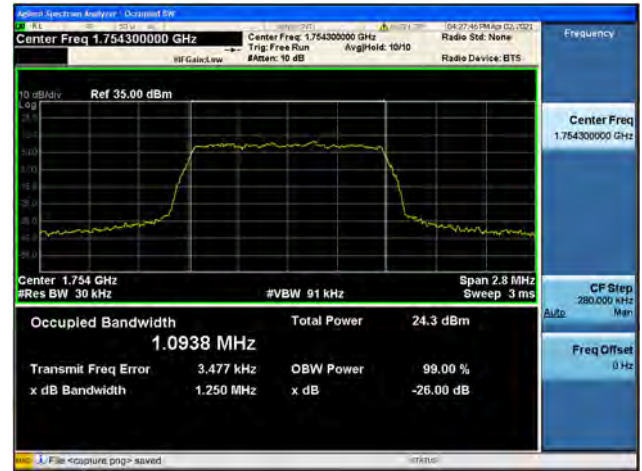




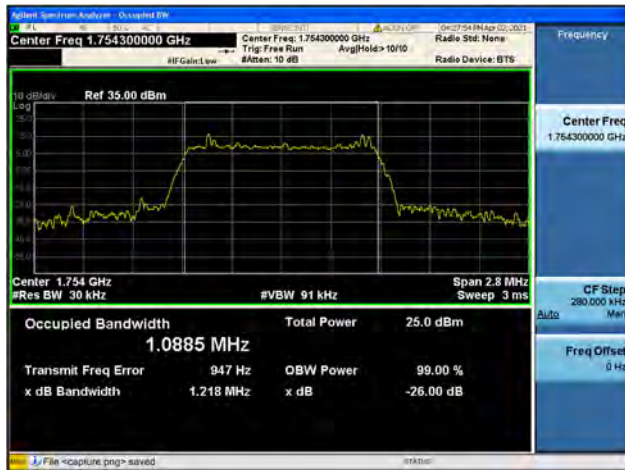
Band4 / 1.4MHz / High CH / QPSK



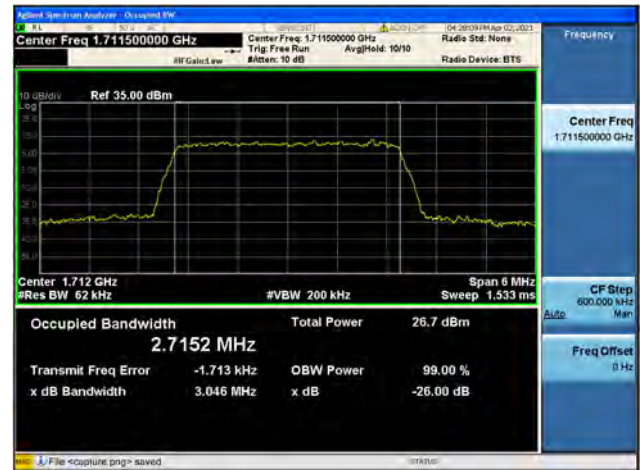
Band4 / 1.4MHz / High CH / 16QAM



Band4 / 1.4MHz / High CH / 64QAM



Band4 / 3MHz / Low CH / QPSK



Band4 / 3MHz / Low CH / 16QAM

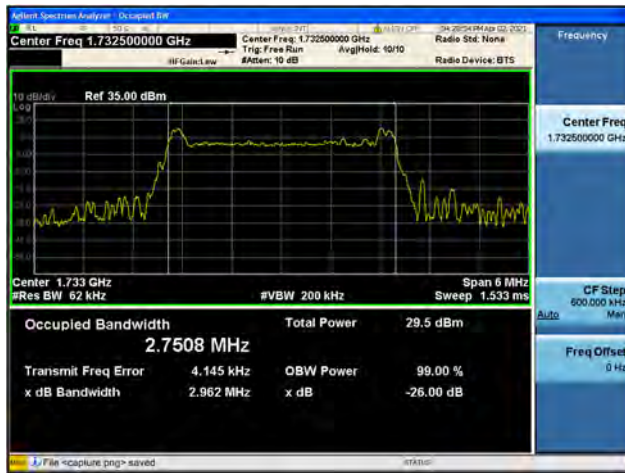


Band4 / 3MHz / Low CH / 64QAM

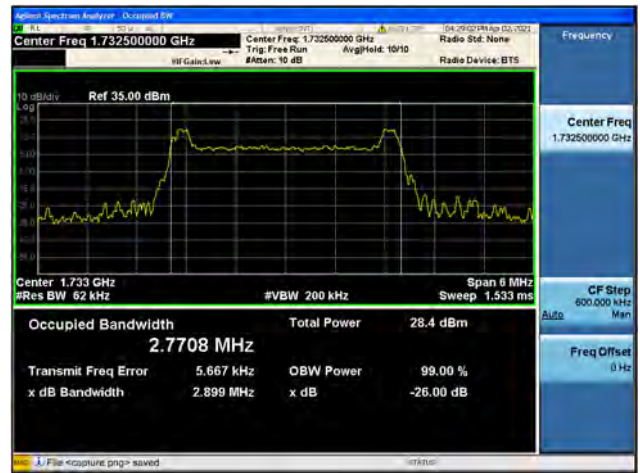




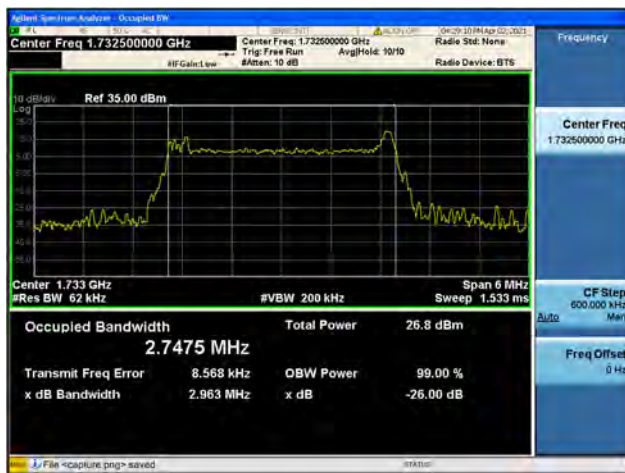
Band4 / 3MHz / Mid CH / QPSK



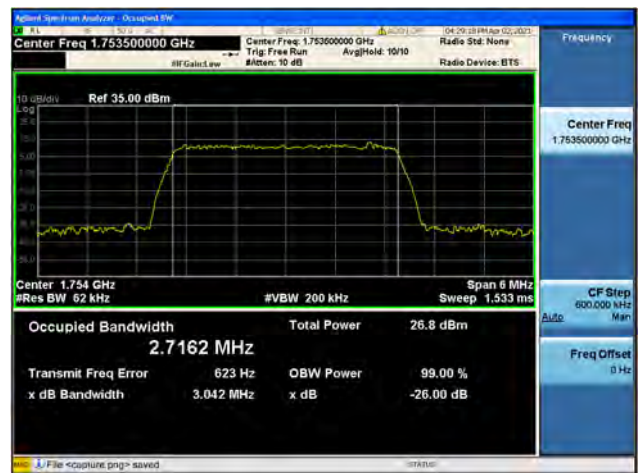
Band4 / 3MHz / Mid CH / 16QAM



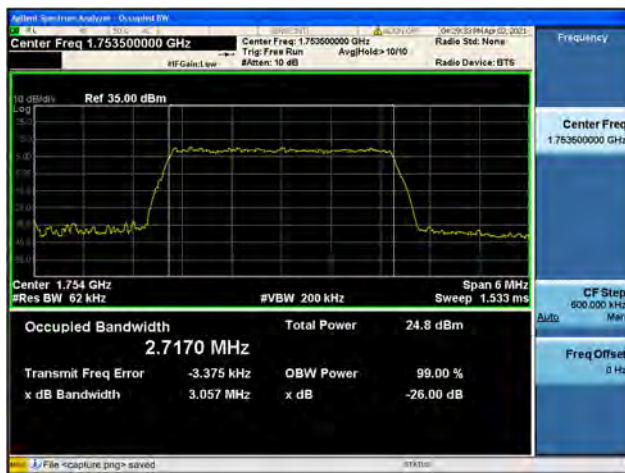
Band4 / 3MHz / Mid CH / 64QAM



Band4 / 3MHz / High CH / QPSK



Band4 / 3MHz / High CH / 16QAM

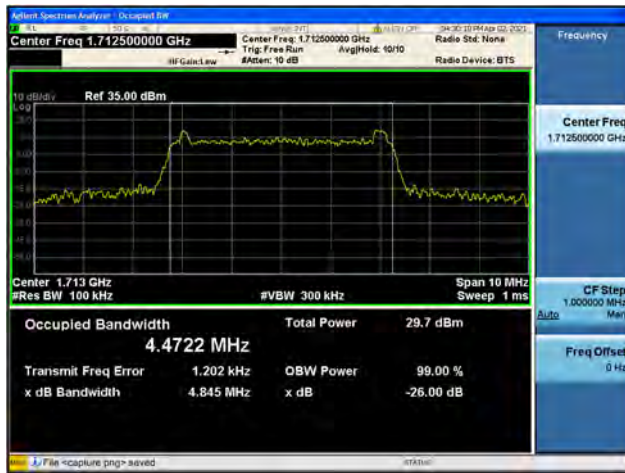


Band4 / 3MHz / High CH / 64QAM

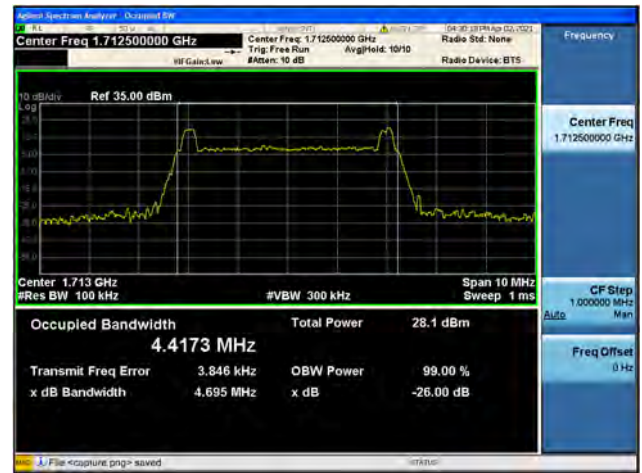




Band4 / 5MHz / Low CH / QPSK



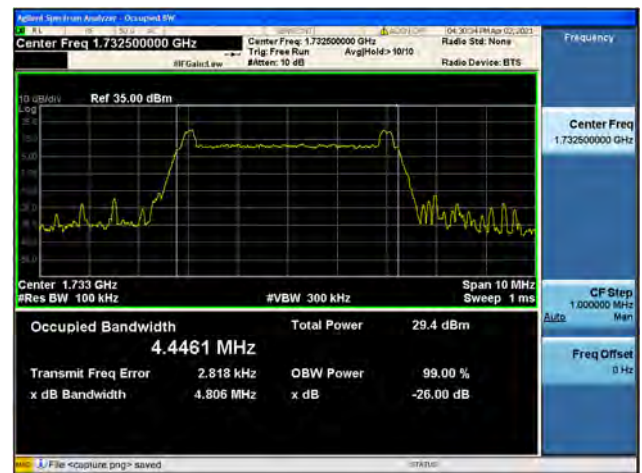
Band4 / 5MHz / Low CH / 16QAM



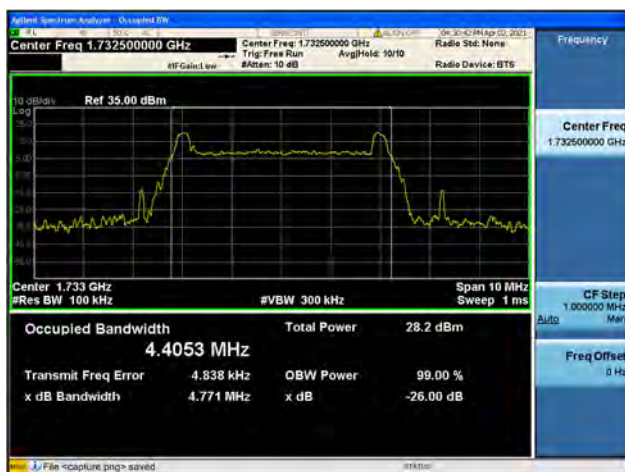
Band4 / 5MHz / Low CH / 64QAM



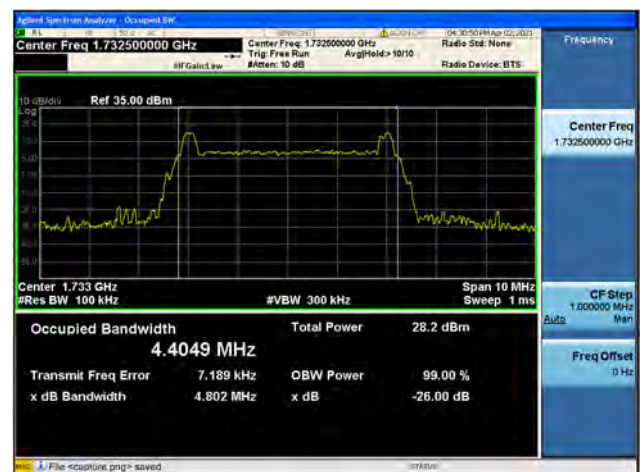
Band4 / 5MHz / Mid CH / QPSK



Band4 / 5MHz / Mid CH / 16QAM

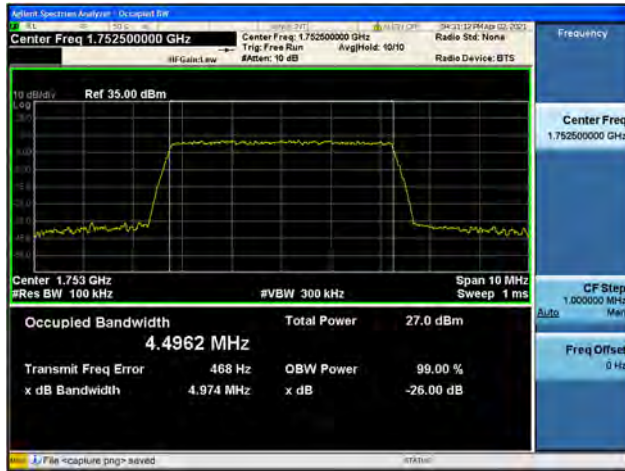


Band4 / 5MHz / Mid CH / 64QAM





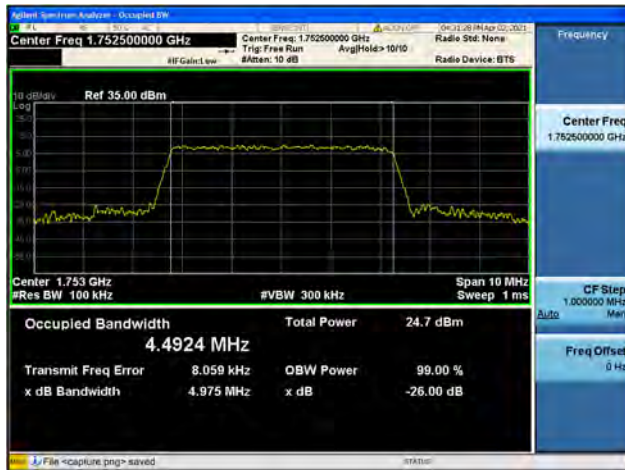
Band4 / 5MHz / High CH / QPSK



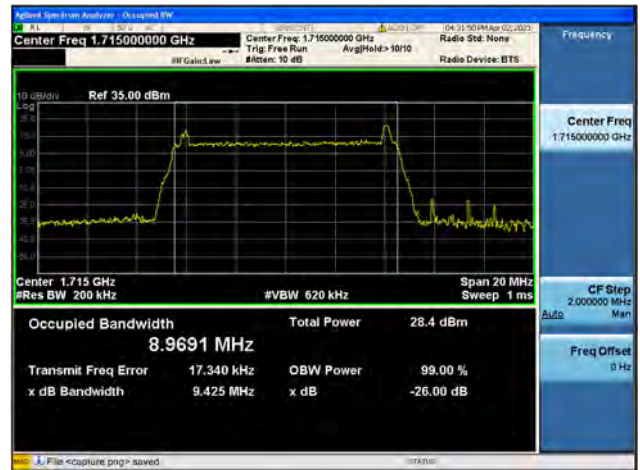
Band4 / 5MHz / High CH / 16QAM



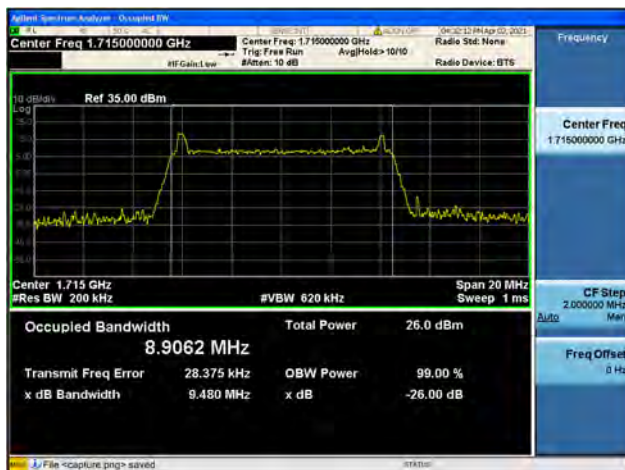
Band4 / 5MHz / High CH / 64QAM



Band4 / 10MHz / Low CH / QPSK



Band4 / 10MHz / Low CH / 16QAM

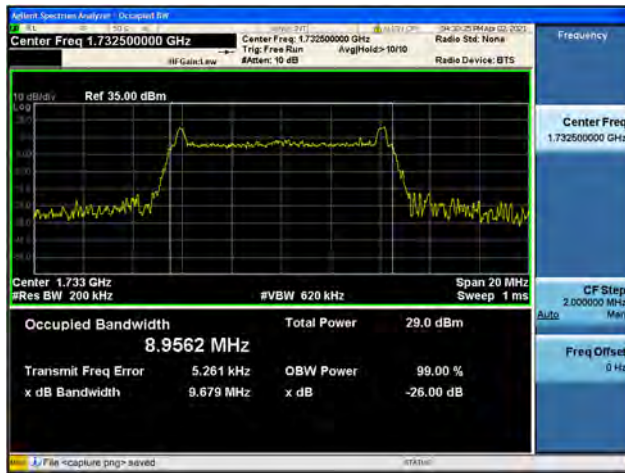


Band4 / 10MHz / Low CH / 64QAM

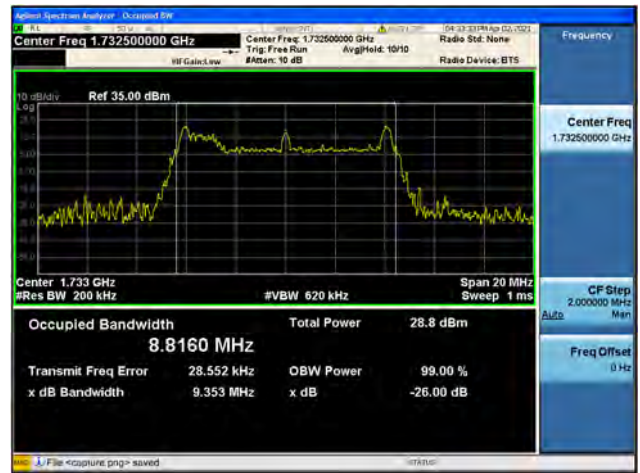




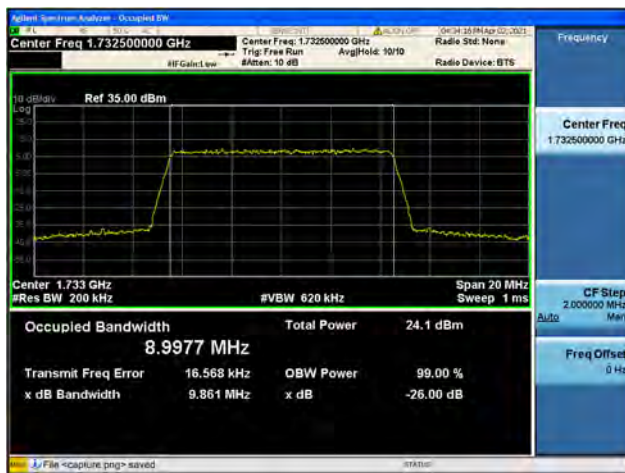
Band4 / 10MHz / Mid CH / QPSK



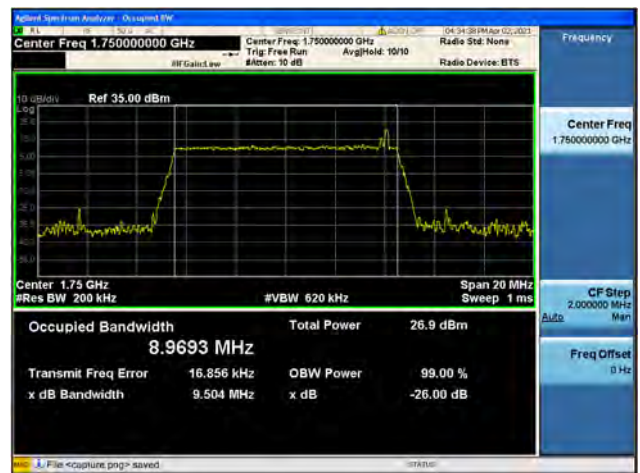
Band4 / 10MHz / Mid CH / 16QAM



Band4 / 10MHz / Mid CH / 64QAM



Band4 / 10MHz / High CH / QPSK



Band4 / 10MHz / High CH / 16QAM



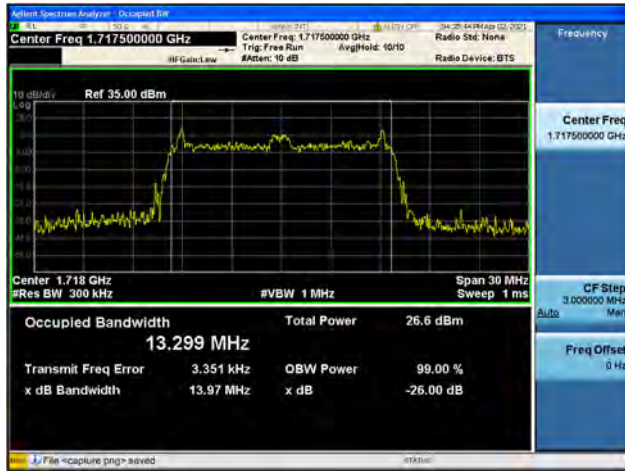
Band4 / 10MHz / High CH / 64QAM



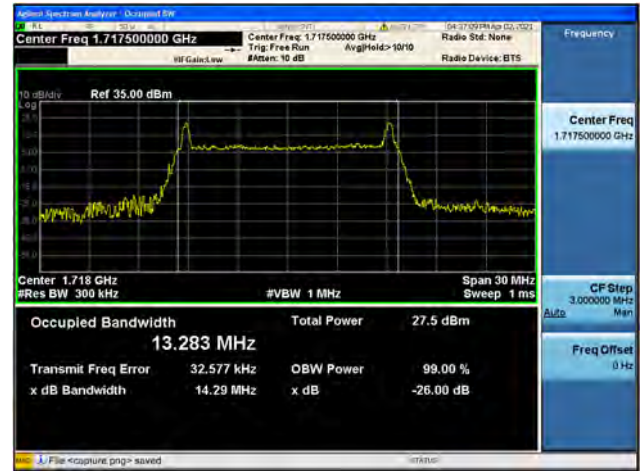




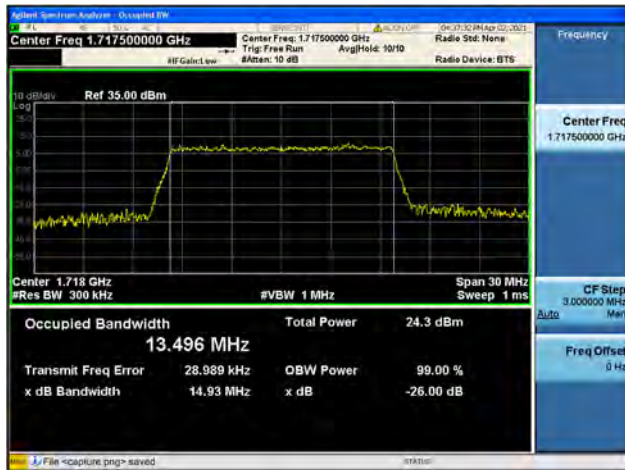
Band4 / 15MHz / Low CH / QPSK



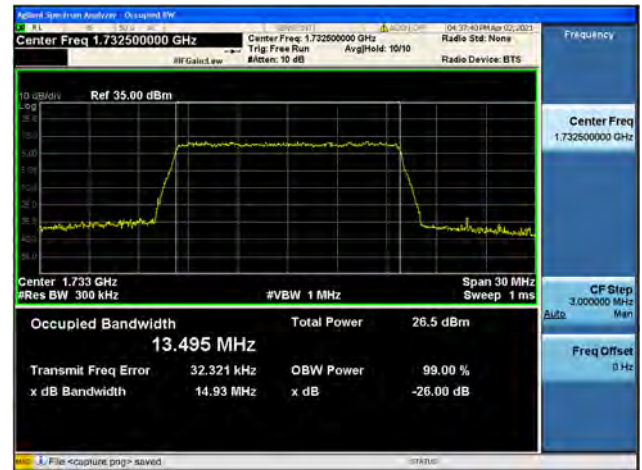
Band4 / 15MHz / Low CH / 16QAM



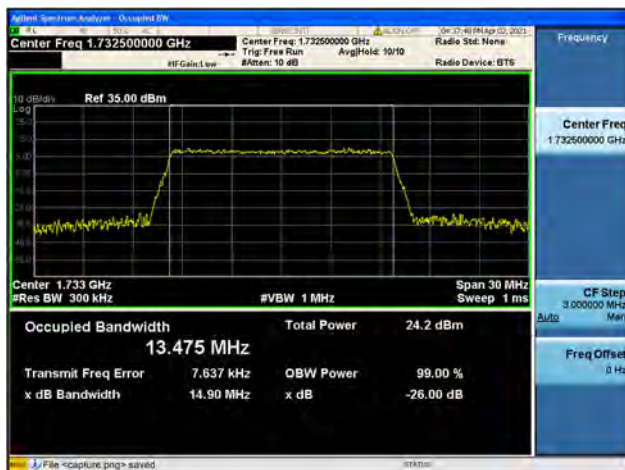
Band4 / 15MHz / Low CH / 64QAM



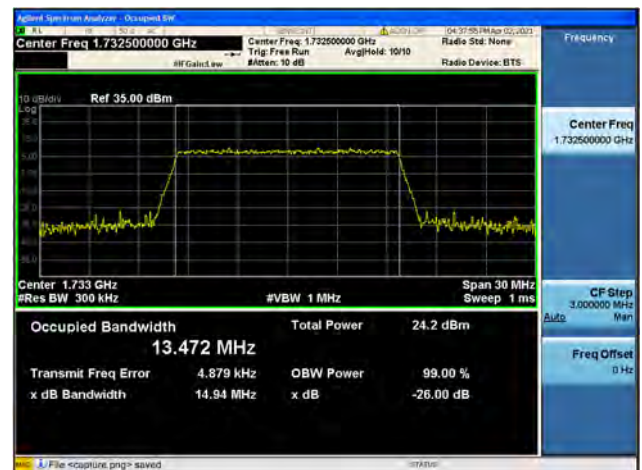
Band4 / 15MHz / Mid CH / QPSK



Band4 / 15MHz / Mid CH / 16QAM

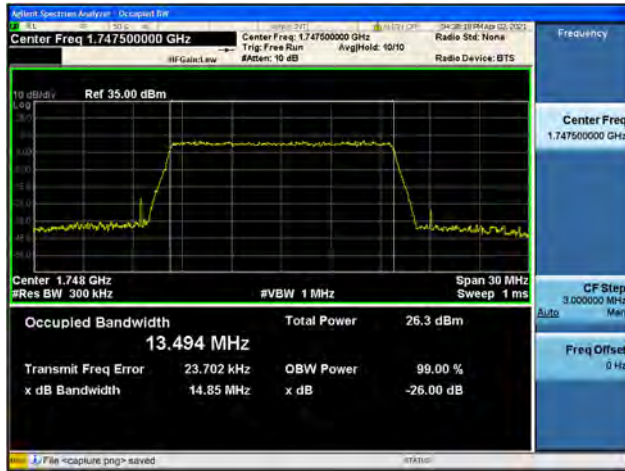


Band4 / 15MHz / Mid CH / 64QAM

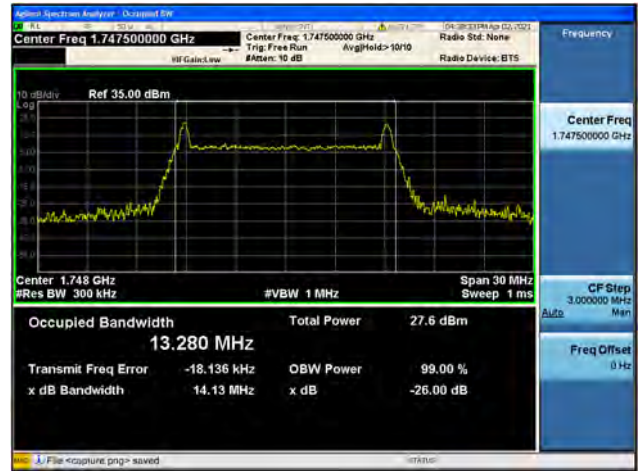




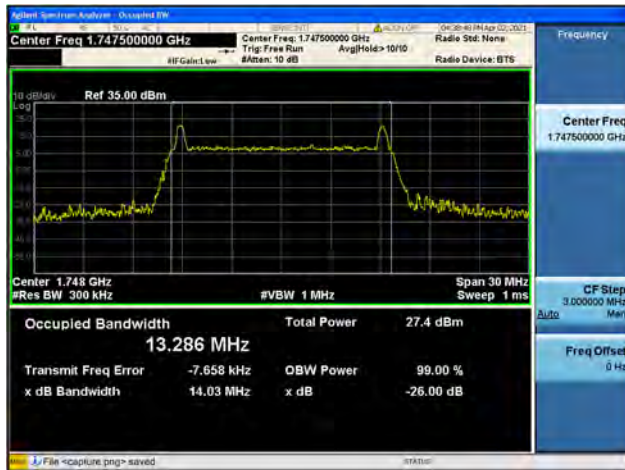
Band4 / 15MHz / High CH / QPSK



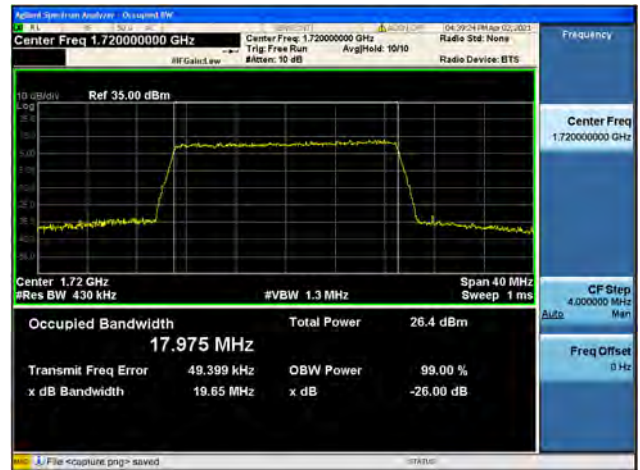
Band4 / 15MHz / High CH / 16QAM



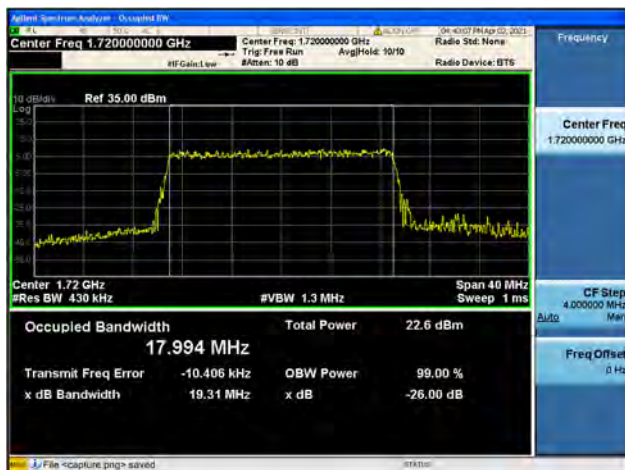
Band4 / 15MHz / High CH / 64QAM



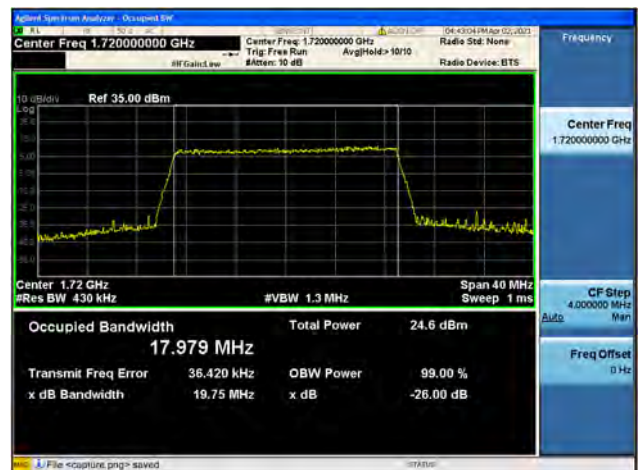
Band4 / 20MHz / Low CH / QPSK



Band4 / 20MHz / Low CH / 16QAM

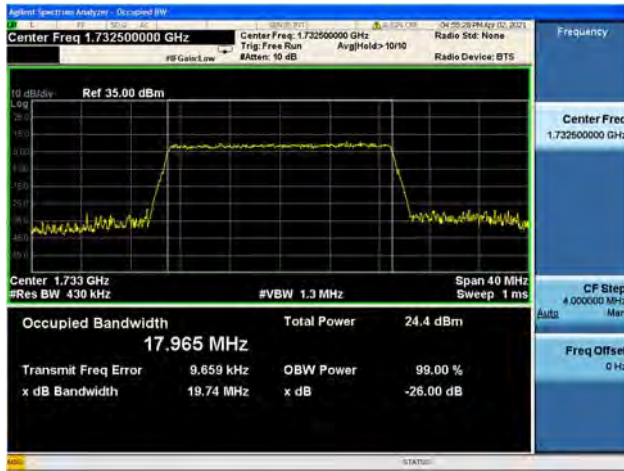


Band4 / 20MHz / Low CH / 64QAM

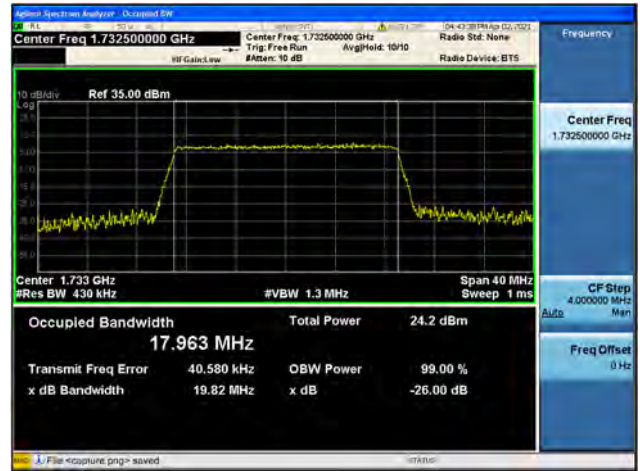




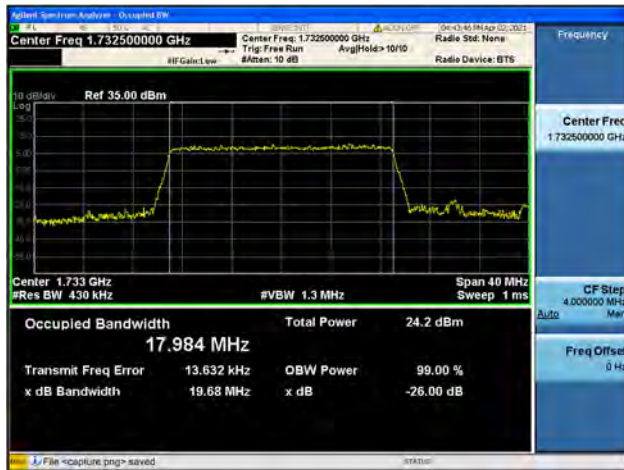
Band4 / 20MHz / Mid CH / QPSK



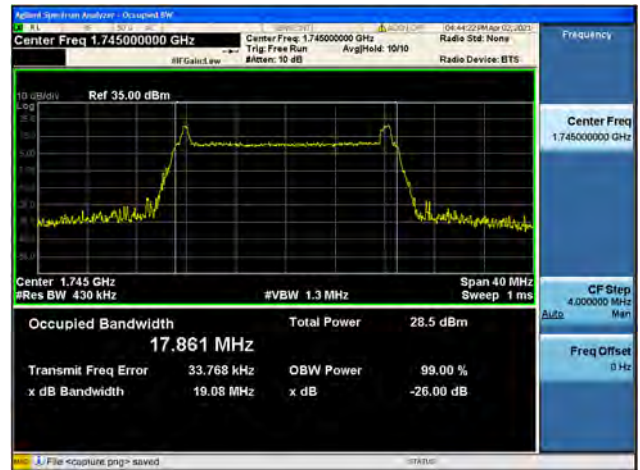
Band4 / 20MHz / Mid CH / 16QAM



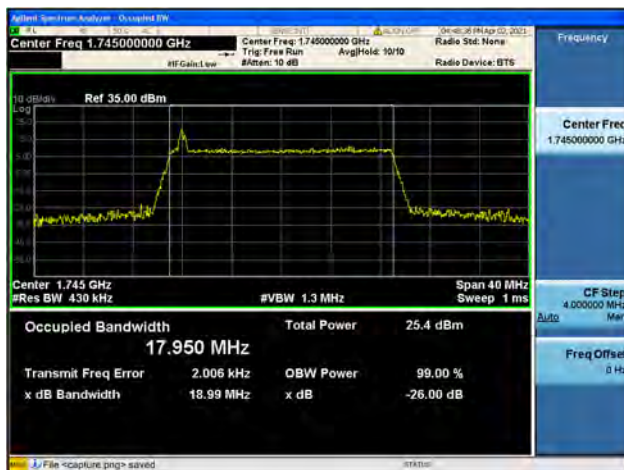
Band4 / 20MHz / Mid CH / 64QAM



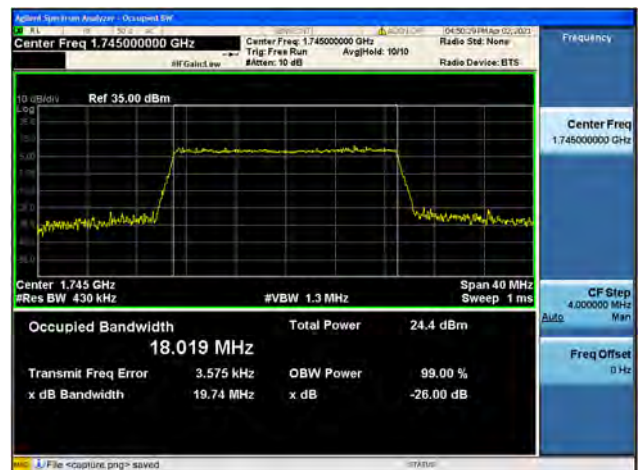
Band4 / 20MHz / High CH / QPSK



Band4 / 20MHz / High CH / 16QAM

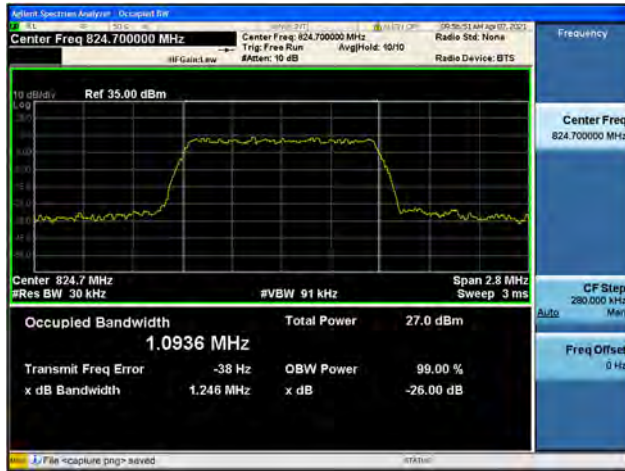


Band4 / 20MHz / High CH / 64QAM

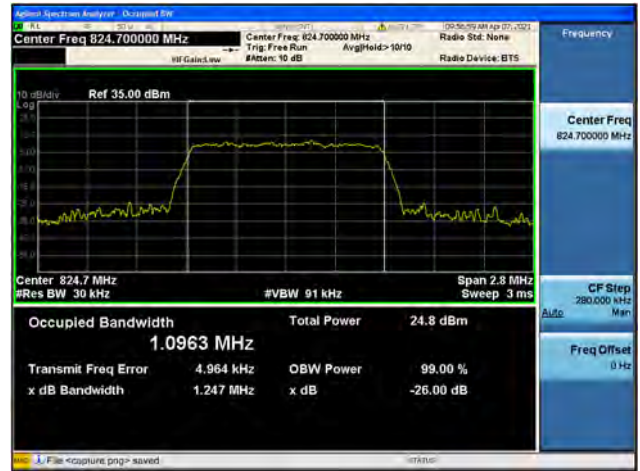




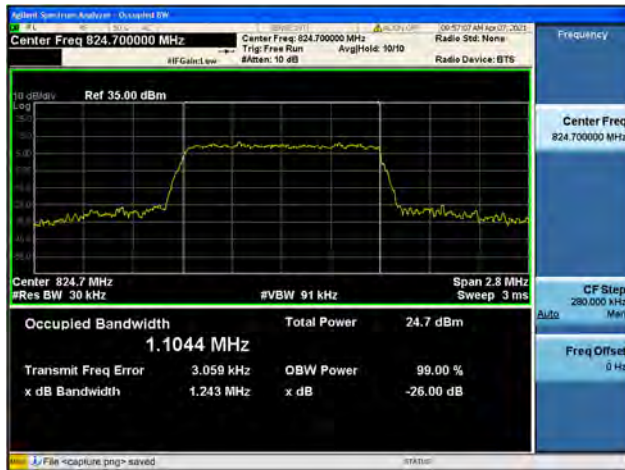
Band5 / 1.4MHz / Low CH / QPSK



Band5 / 1.4MHz / Low CH / 16QAM



Band5 / 1.4MHz / Low CH / 64QAM



Band5 / 1.4MHz / Mid CH / QPSK



Band5 / 1.4MHz / Mid CH / 16QAM

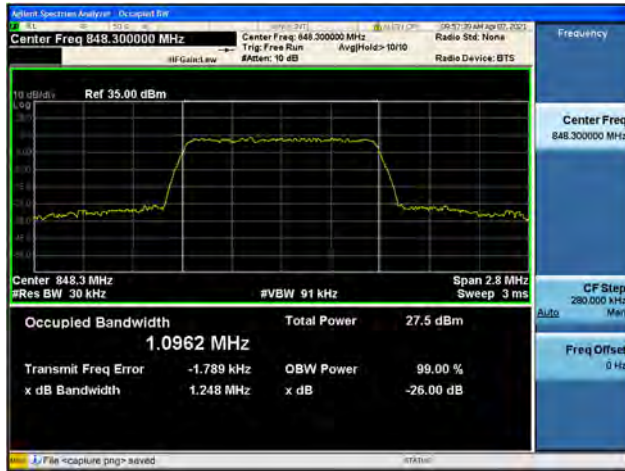


Band5 / 1.4MHz / Mid CH / 64QAM

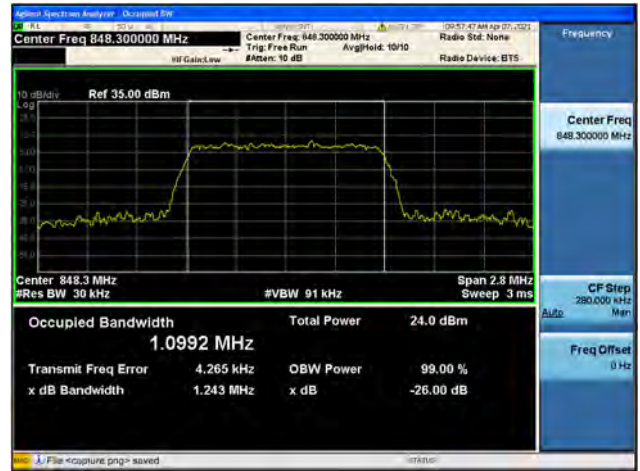




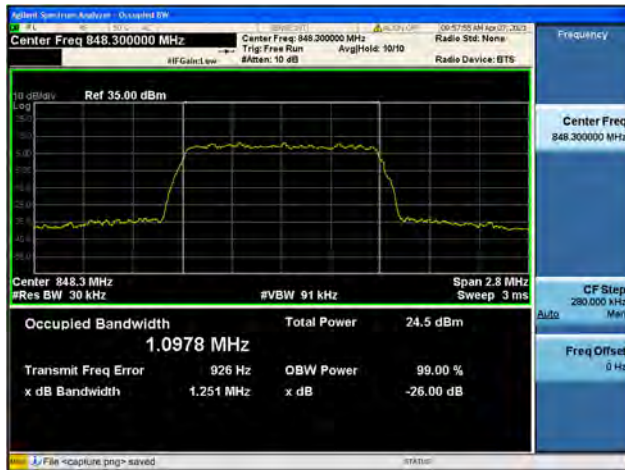
Band5 / 1.4MHz / High CH / QPSK



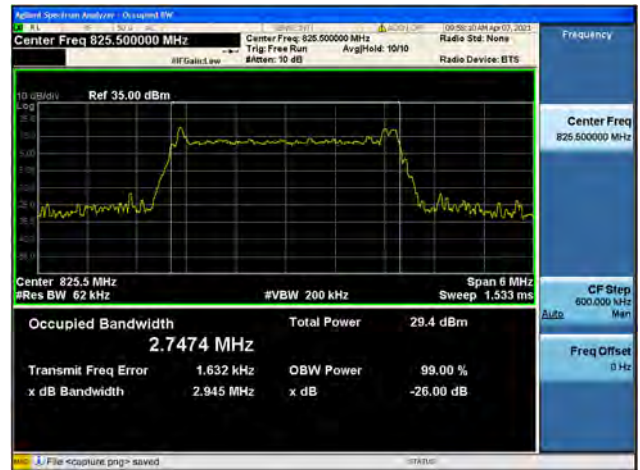
Band5 / 1.4MHz / High CH / 16QAM



Band5 / 1.4MHz / High CH / 64QAM



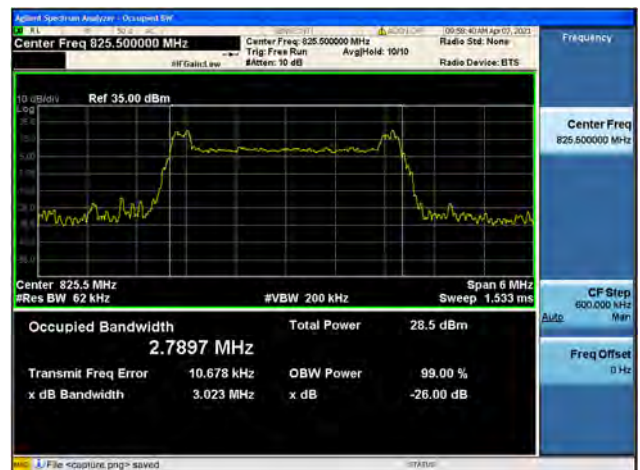
Band5 / 3MHz / Low CH / QPSK



Band5 / 3MHz / Low CH / 16QAM

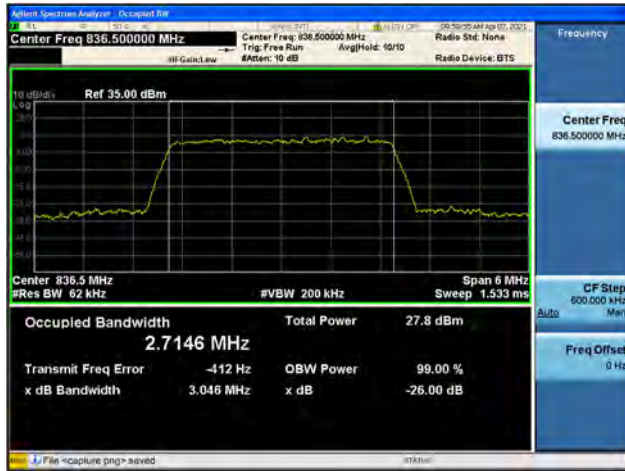


Band5 / 3MHz / Low CH / 64QAM

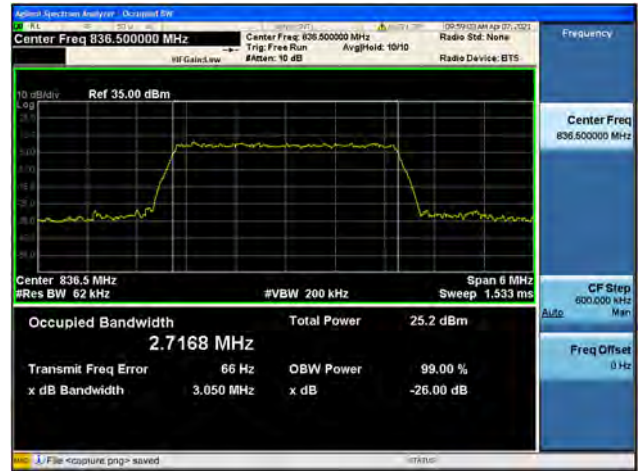




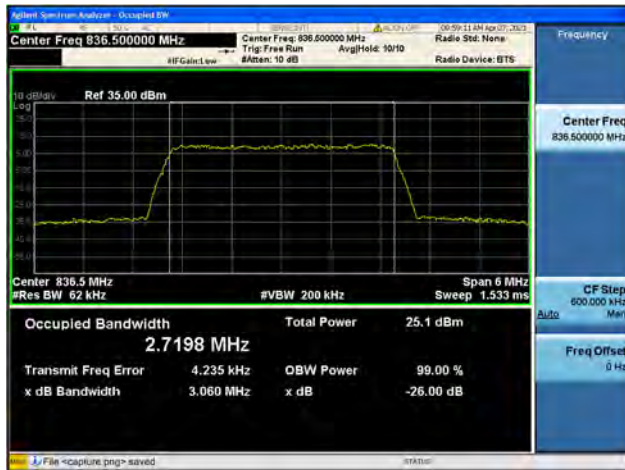
Band5 / 3MHz / Mid CH / QPSK



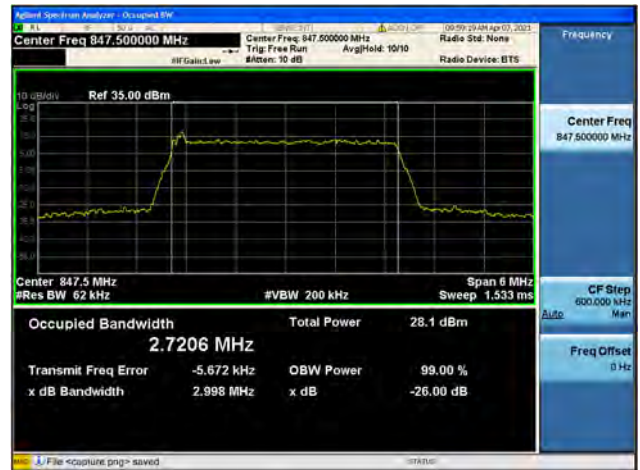
Band5 / 3MHz / Mid CH / 16QAM



Band5 / 3MHz / Mid CH / 64QAM



Band5 / 3MHz / High CH / QPSK



Band5 / 3MHz / High CH / 16QAM

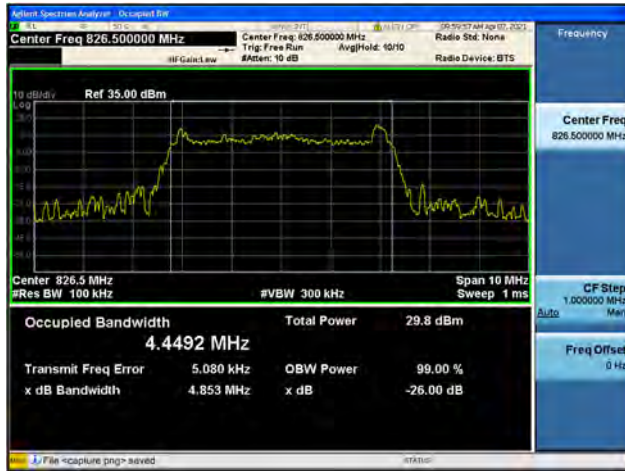


Band5 / 3MHz / High CH / 64QAM

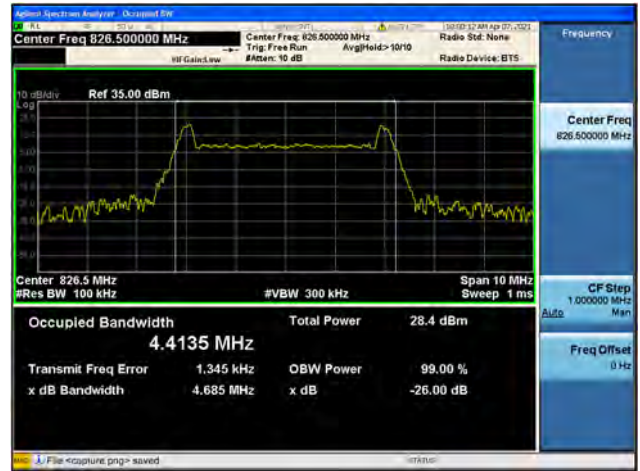




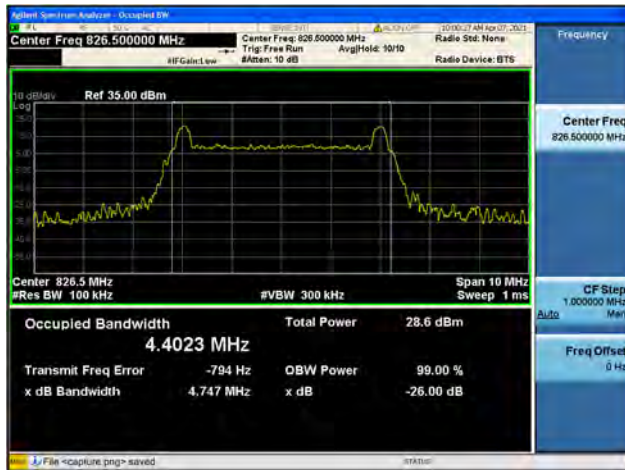
Band5 / 5MHz / Low CH / QPSK



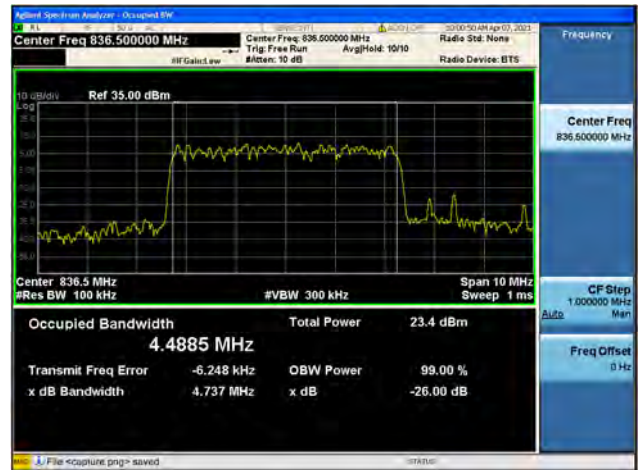
Band5 / 5MHz / Low CH / 16QAM



Band5 / 5MHz / Low CH / 64QAM



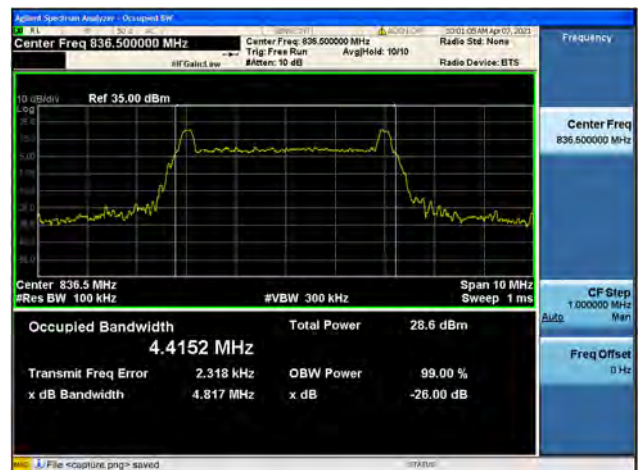
Band5 / 5MHz / Mid CH / QPSK



Band5 / 5MHz / Mid CH / 16QAM



Band5 / 5MHz / Mid CH / 64QAM

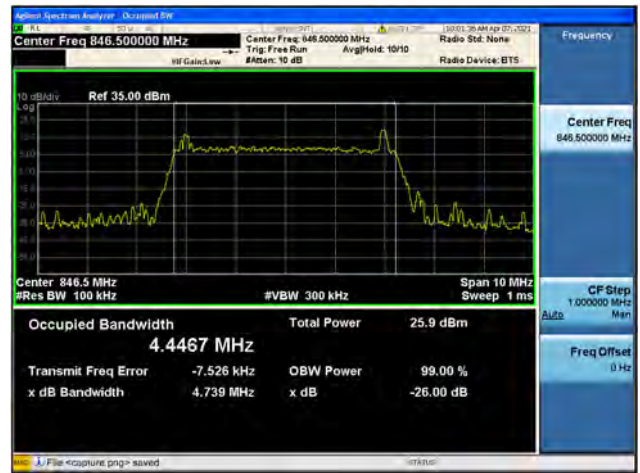




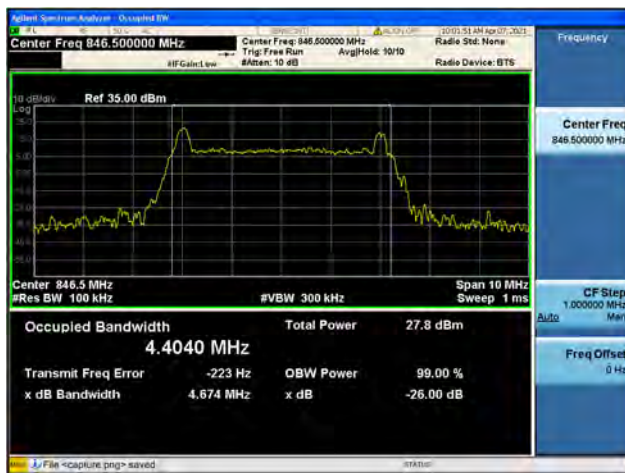
Band5 / 5MHz / High CH / QPSK



Band5 / 5MHz / High CH / 16QAM



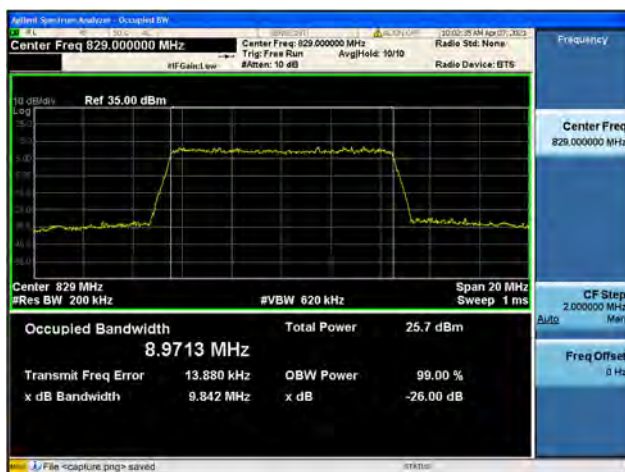
Band5 / 5MHz / High CH / 64QAM



Band5 / 10MHz / Low CH / QPSK



Band5 / 10MHz / Low CH / 16QAM



Band5 / 10MHz / Low CH / 64QAM



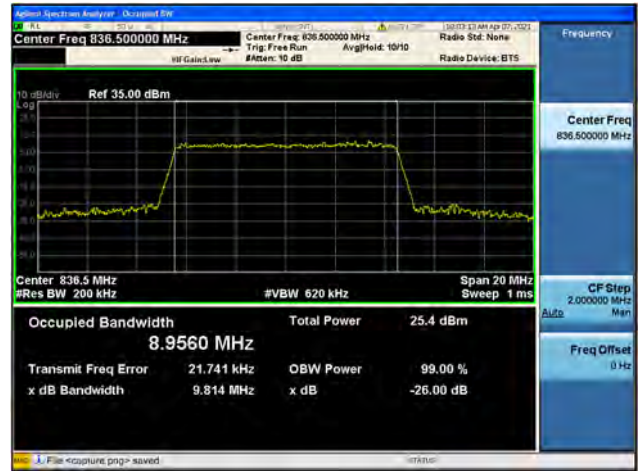




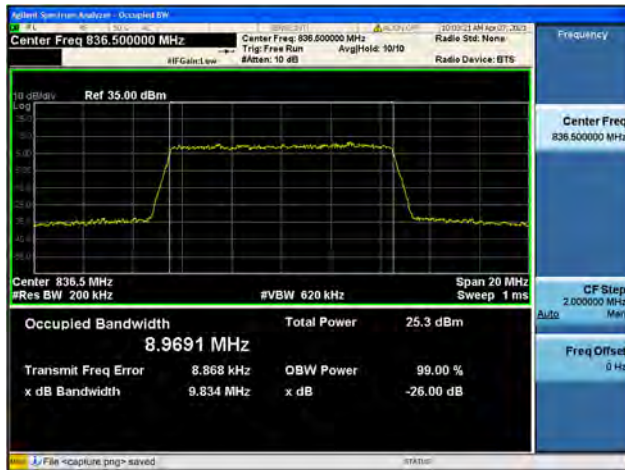
Band5 / 10MHz / Mid CH / QPSK



Band5 / 10MHz / Mid CH / 16QAM



Band5 / 10MHz / Mid CH / 64QAM



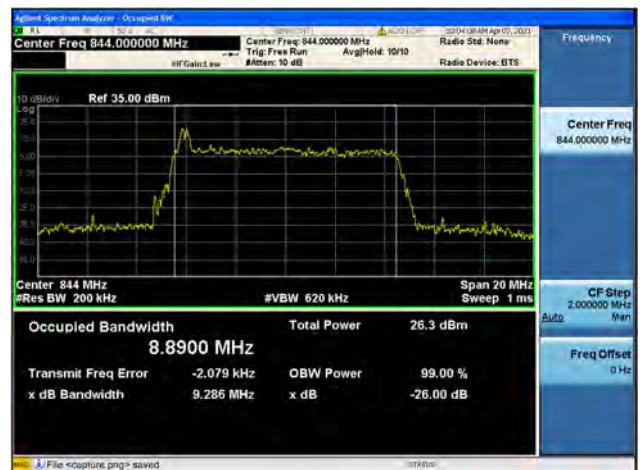
Band5 / 10MHz / High CH / QPSK



Band5 / 10MHz / High CH / 16QAM

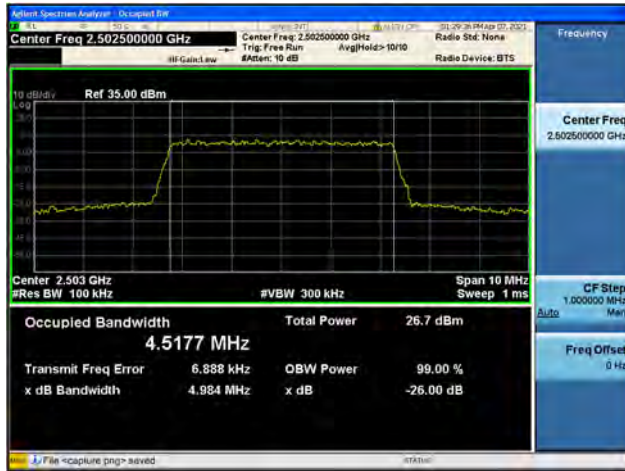


Band5 / 10MHz / High CH / 64QAM

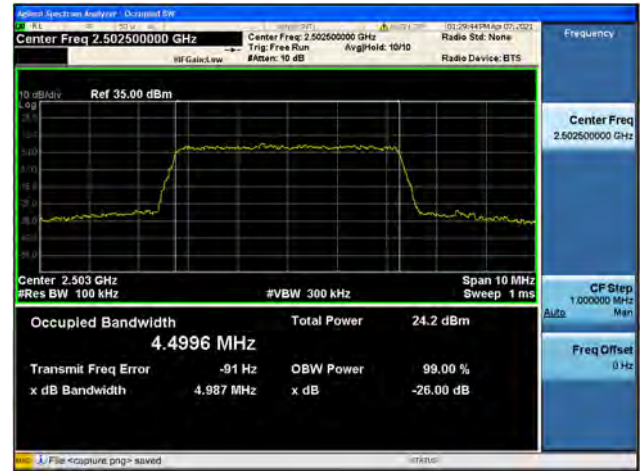




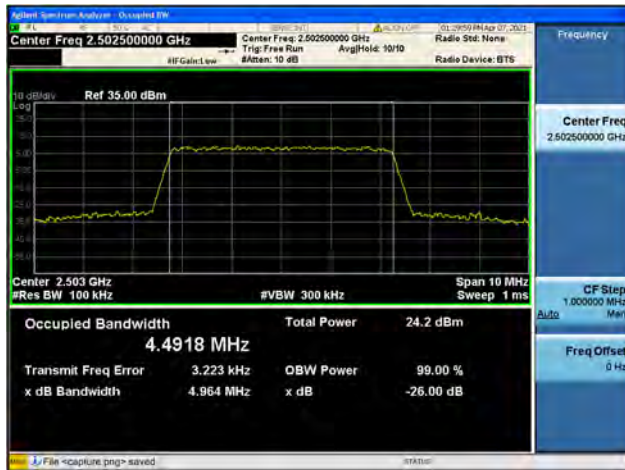
Band7 / 5MHz / Low CH / QPSK



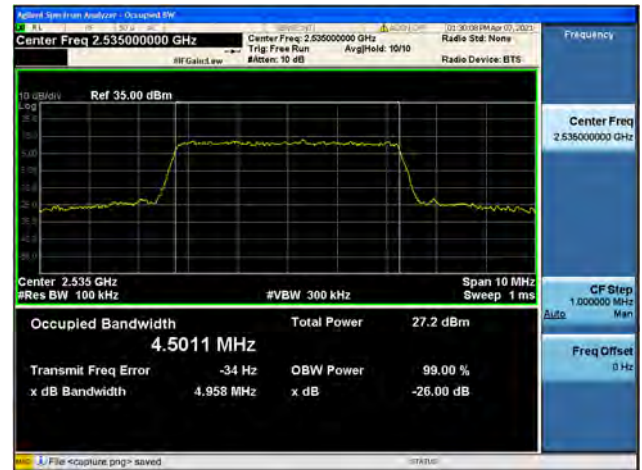
Band7 / 5MHz / Low CH / 16QAM



Band7 / 5MHz / Low CH / 64QAM



Band7 / 5MHz / Mid CH / QPSK



Band7 / 5MHz / Mid CH / 16QAM



Band7 / 5MHz / Mid CH / 64QAM





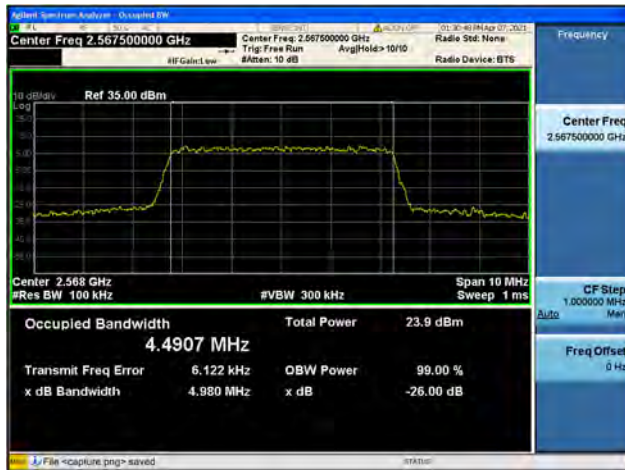
Band7 / 5MHz / High CH / QPSK



Band7 / 5MHz / High CH / 16QAM



Band7 / 5MHz / High CH / 64QAM



Band7 / 10MHz / Low CH / QPSK



Band7 / 10MHz / Low CH / 16QAM



Band7 / 10MHz / Low CH / 64QAM

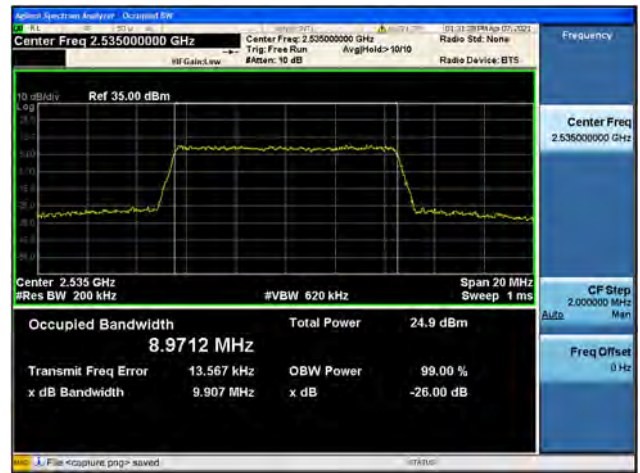




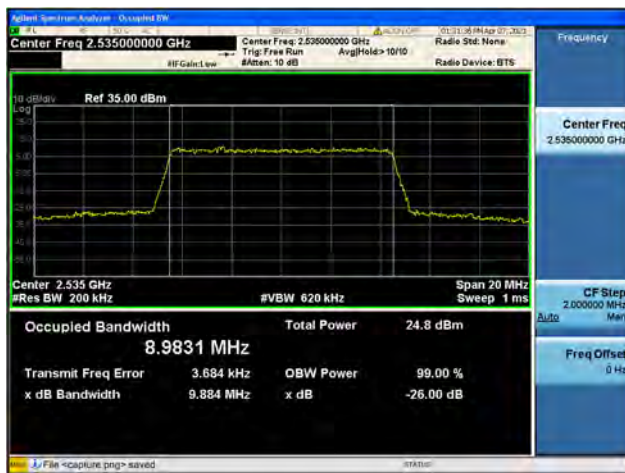
Band7 / 10MHz / Mid CH / QPSK



Band7 / 10MHz / Mid CH / 16QAM



Band7 / 10MHz / Mid CH / 64QAM



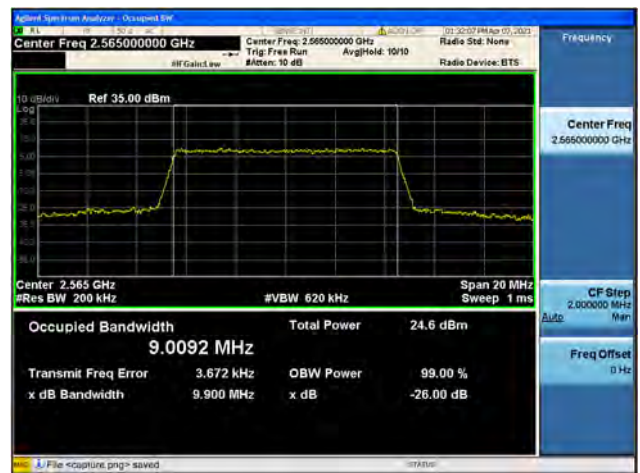
Band7 / 10MHz / High CH / QPSK



Band7 / 10MHz / High CH / 16QAM



Band7 / 10MHz / High CH / 64QAM

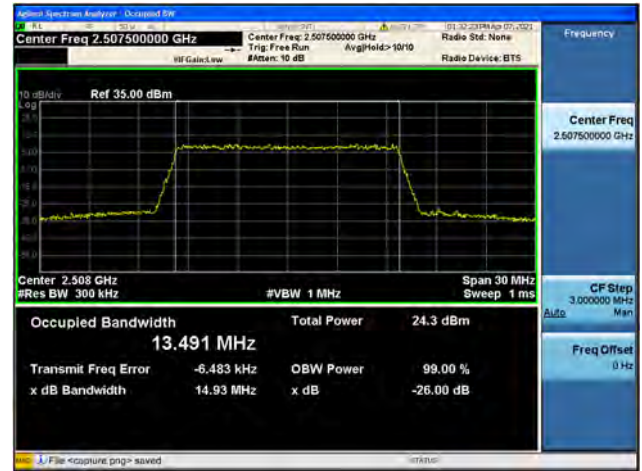




Band7 / 15MHz / Low CH / QPSK



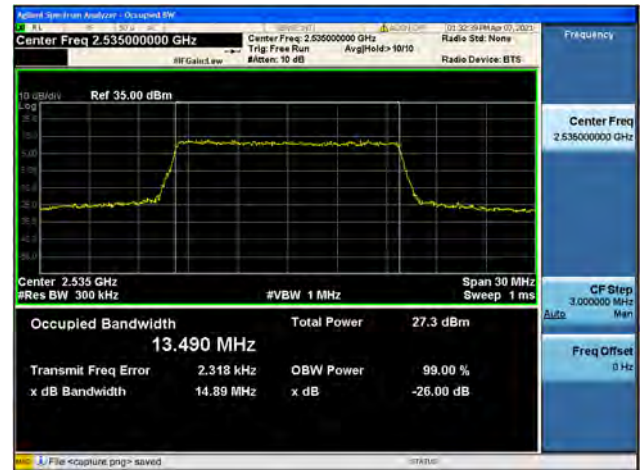
Band7 / 15MHz / Low CH / 16QAM



Band7 / 15MHz / Low CH / 64QAM



Band7 / 15MHz / Mid CH / QPSK



Band7 / 15MHz / Mid CH / 16QAM



Band7 / 15MHz / Mid CH / 64QAM





Band7 / 15MHz / High CH / QPSK



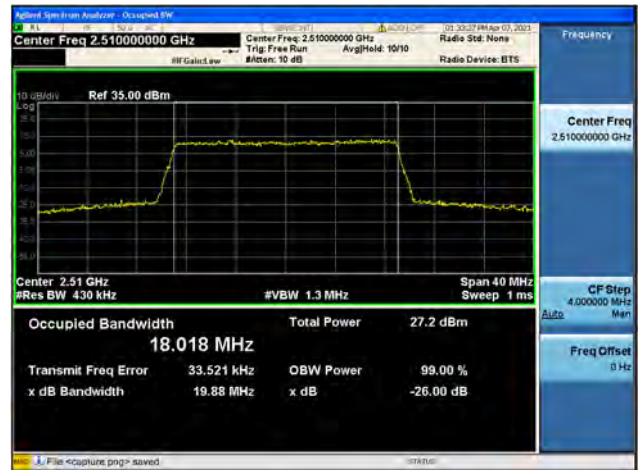
Band7 / 15MHz / High CH / 16QAM



Band7 / 15MHz / High CH / 64QAM



Band7 / 20MHz / Low CH / QPSK



Band7 / 20MHz / Low CH / 16QAM

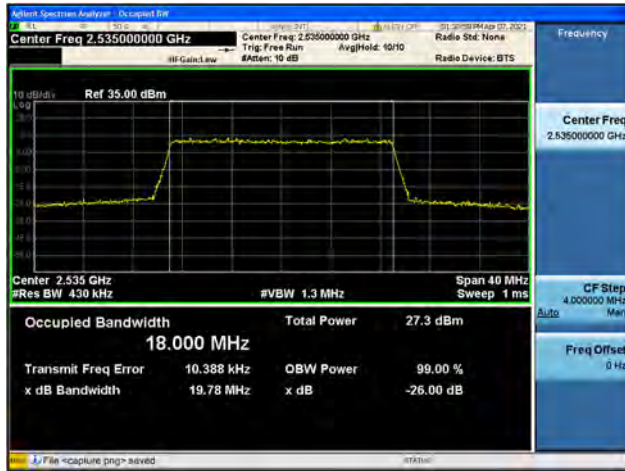


Band7 / 20MHz / Low CH / 64QAM





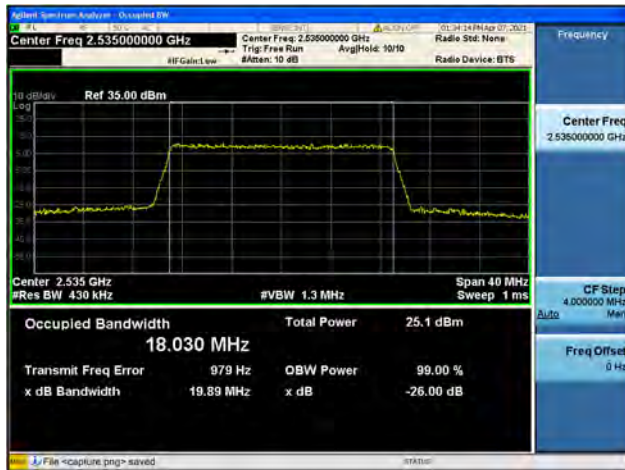
Band7 / 20MHz / Mid CH / QPSK



Band7 / 20MHz / Mid CH / 16QAM



Band7 / 20MHz / Mid CH / 64QAM



Band7 / 20MHz / High CH / QPSK



Band7 / 20MHz / High CH / 16QAM

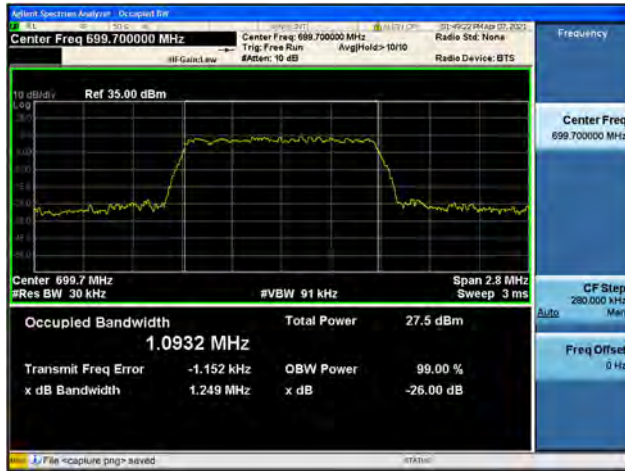


Band7 / 20MHz / High CH / 64QAM





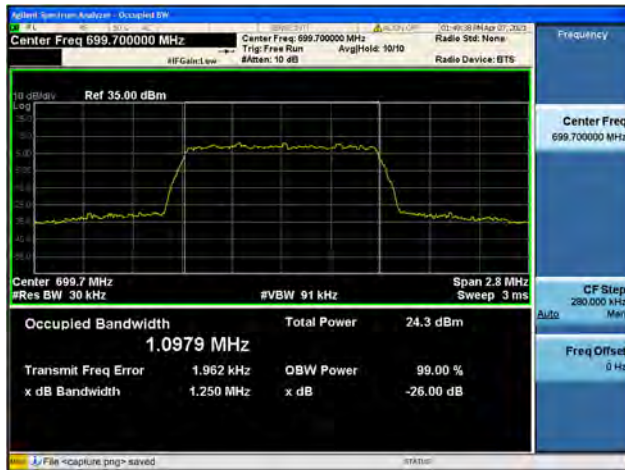
Band12 / 1.4MHz / Low CH / QPSK



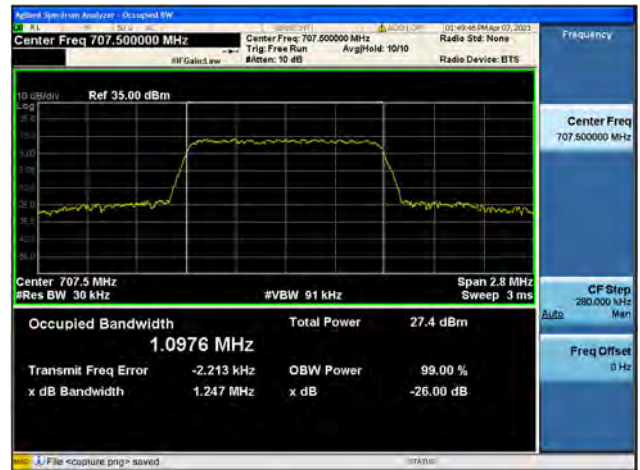
Band12 / 1.4MHz / Low CH / 16QAM



Band12 / 1.4MHz / Low CH / 64QAM



Band12 / 1.4MHz / Mid CH / QPSK



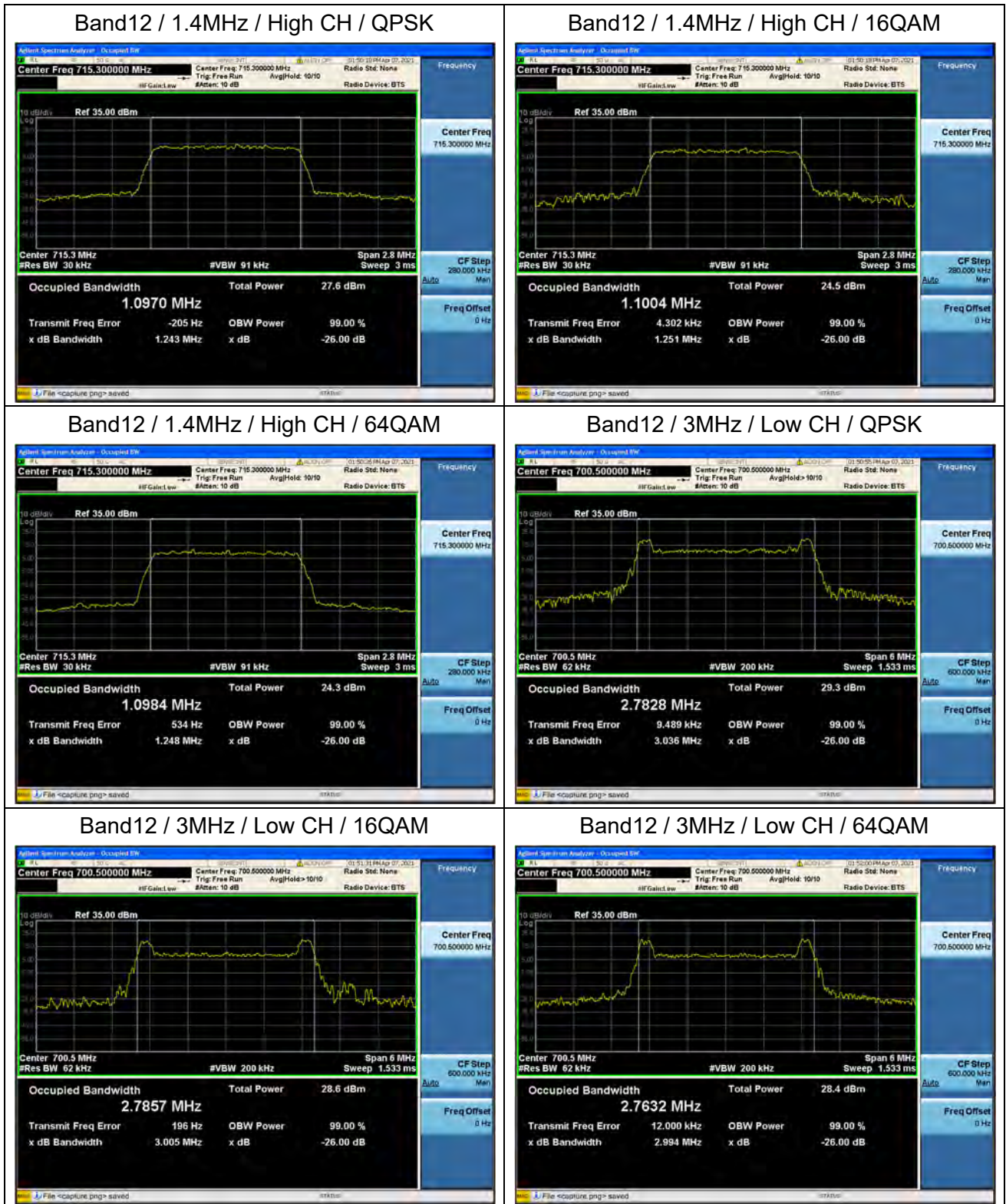
Band12 / 1.4MHz / Mid CH / 16QAM



Band12 / 1.4MHz / Mid CH / 64QAM

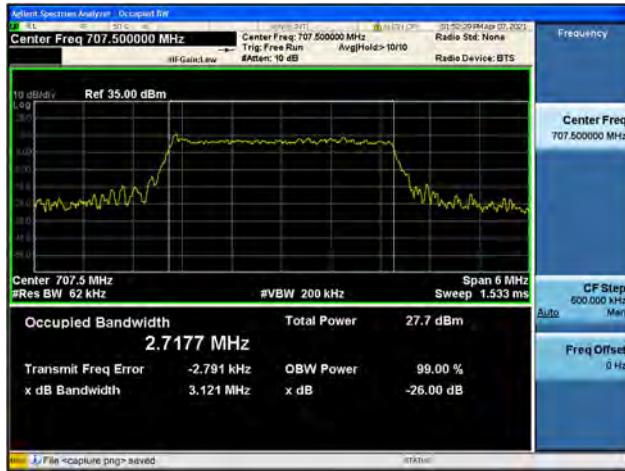




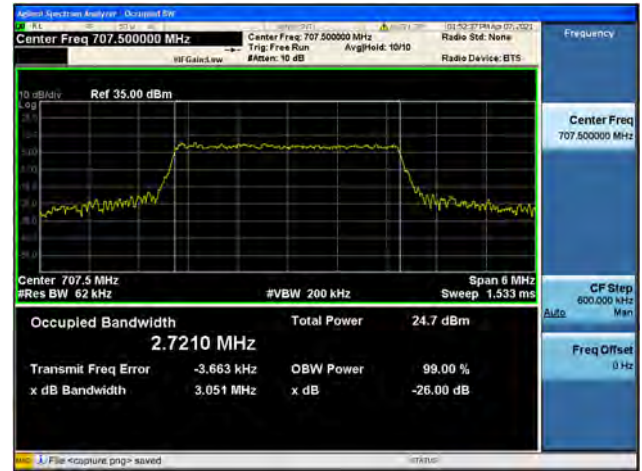




Band12 / 3MHz / Mid CH / QPSK



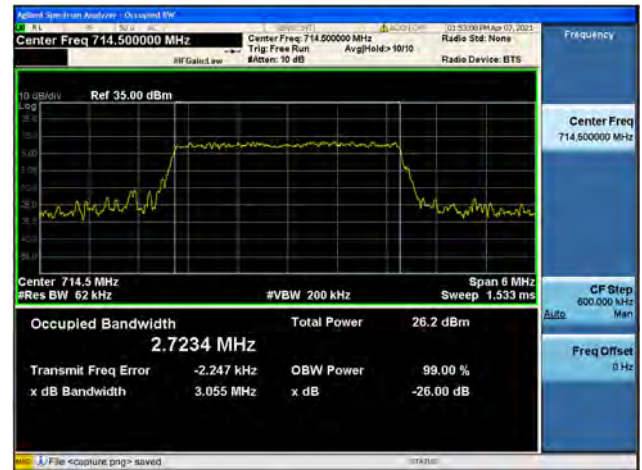
Band12 / 3MHz / Mid CH / 16QAM



Band12 / 3MHz / Mid CH / 64QAM



Band12 / 3MHz / High CH / QPSK



Band12 / 3MHz / High CH / 16QAM

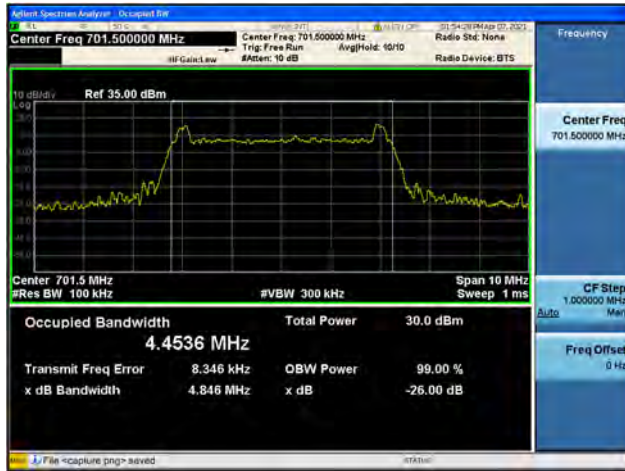


Band12 / 3MHz / High CH / 64QAM

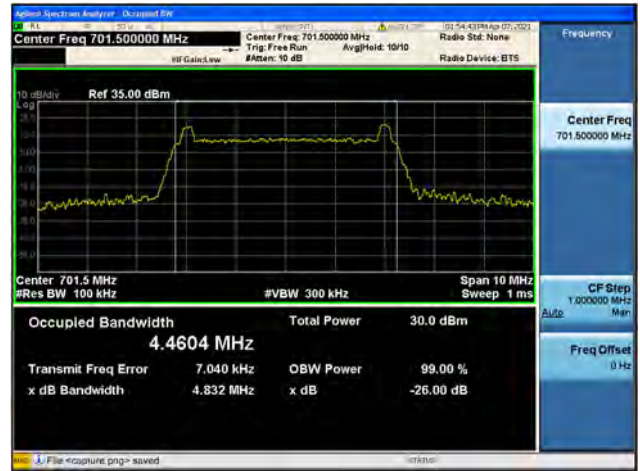




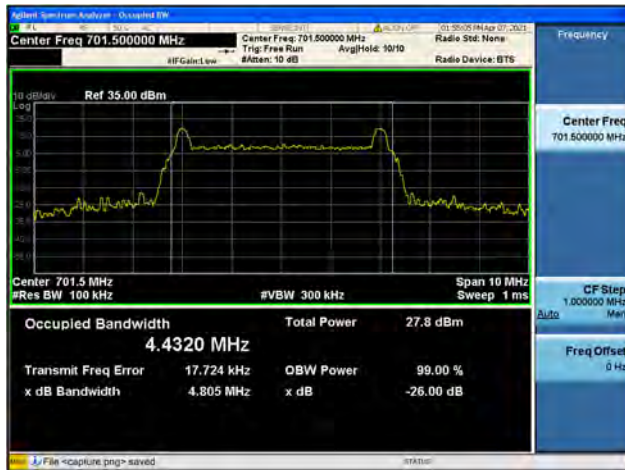
Band12 / 5MHz / Low CH / QPSK



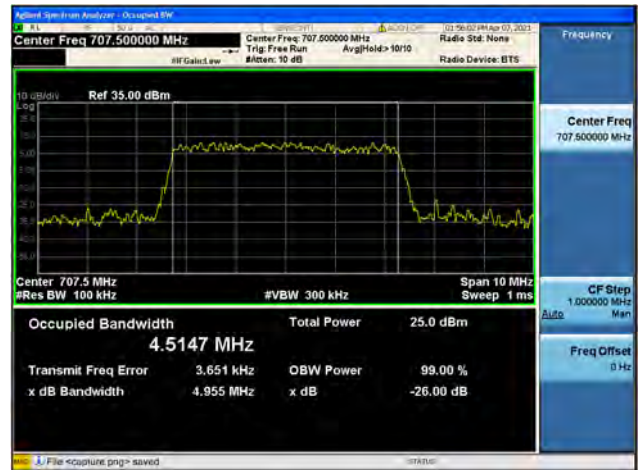
Band12 / 5MHz / Low CH / 16QAM



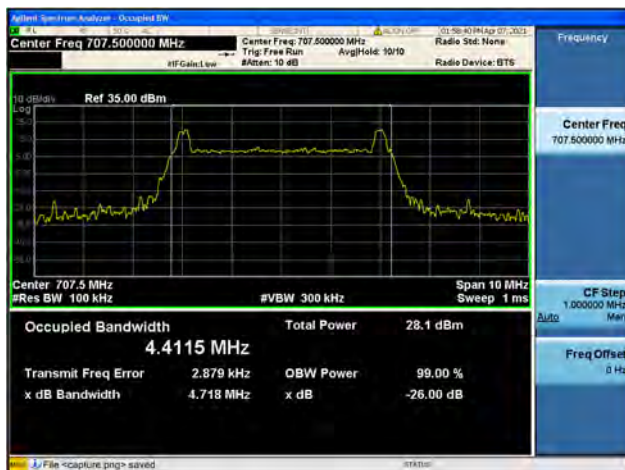
Band12 / 5MHz / Low CH / 64QAM



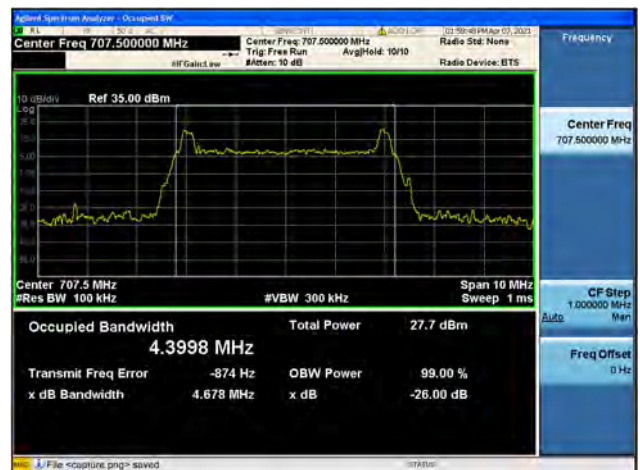
Band12 / 5MHz / Mid CH / QPSK



Band12 / 5MHz / Mid CH / 16QAM

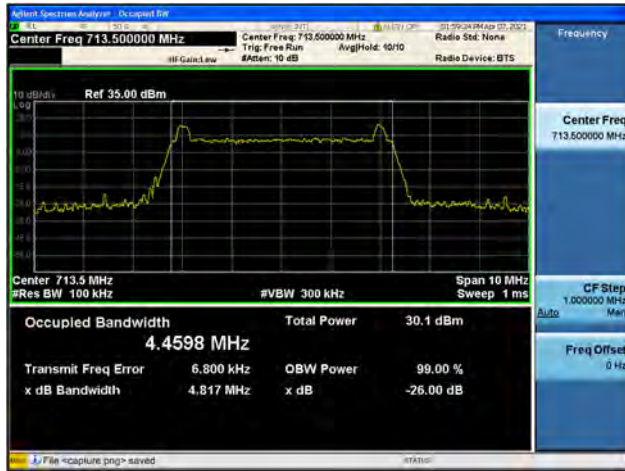


Band12 / 5MHz / Mid CH / 64QAM

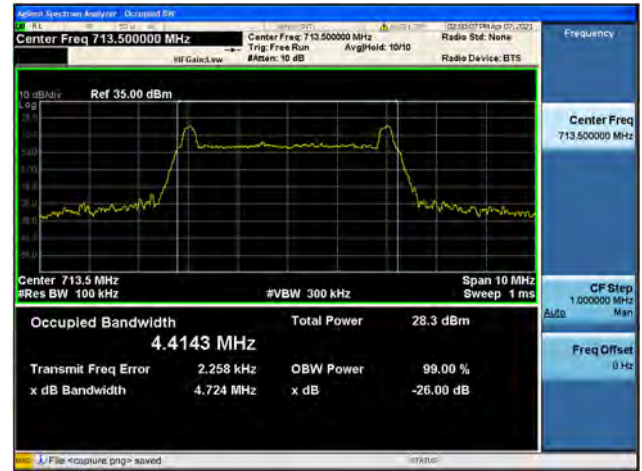




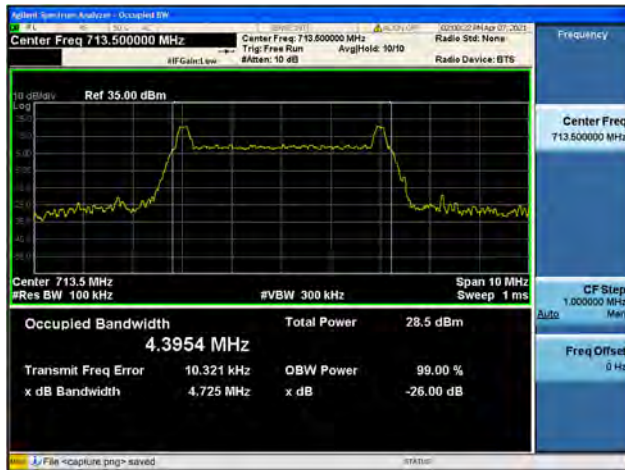
Band12 / 5MHz / High CH / QPSK



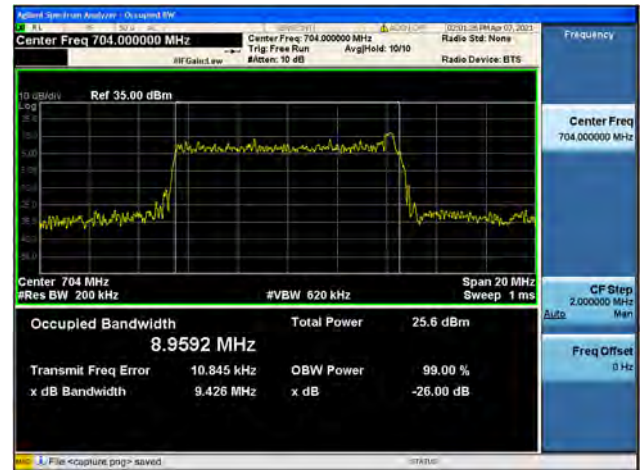
Band12 / 5MHz / High CH / 16QAM



Band12 / 5MHz / High CH / 64QAM



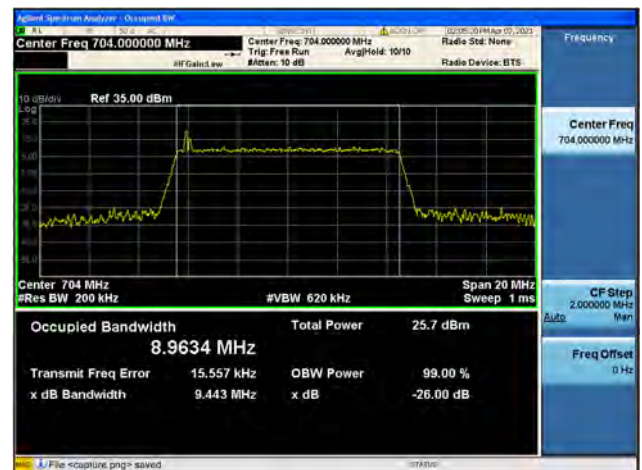
Band12 / 10MHz / Low CH / QPSK



Band12 / 10MHz / Low CH / 16QAM

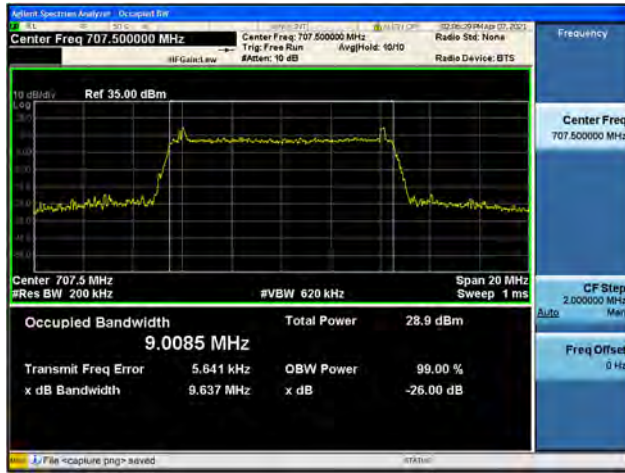


Band12 / 10MHz / Low CH / 64QAM

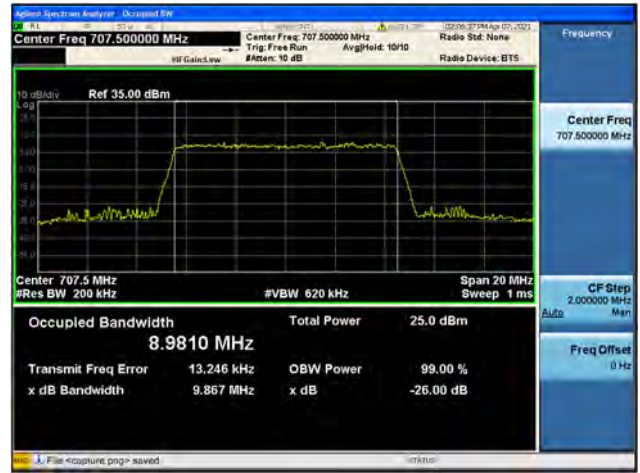




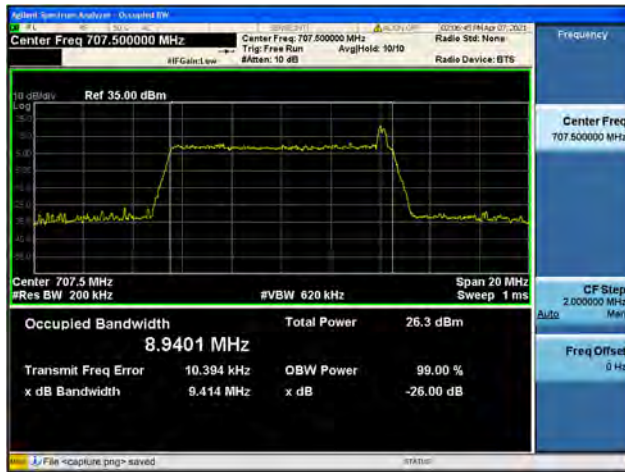
Band12 / 10MHz / Mid CH / QPSK



Band12 / 10MHz / Mid CH / 16QAM



Band12 / 10MHz / Mid CH / 64QAM



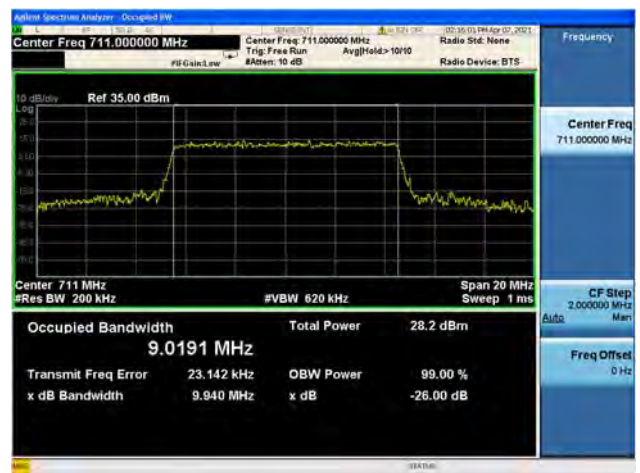
Band12 / 10MHz / High CH / QPSK



Band12 / 10MHz / High CH / 16QAM

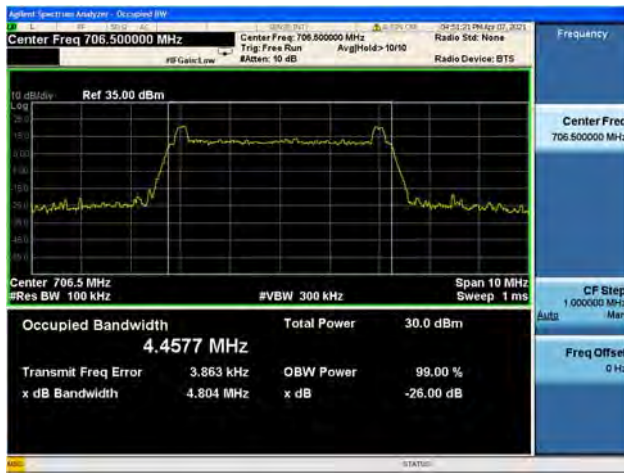


Band12 / 10MHz / High CH / 64QAM

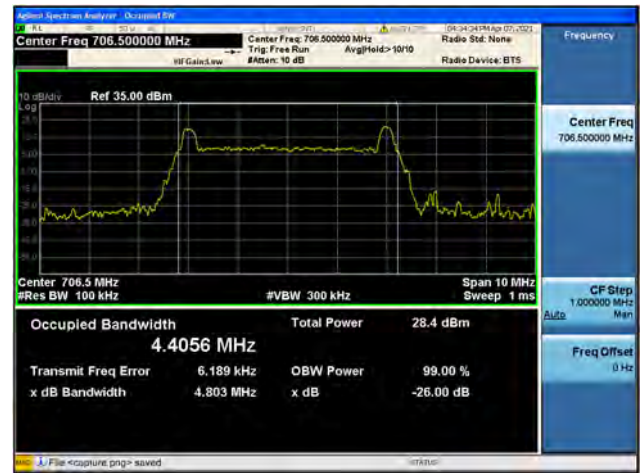




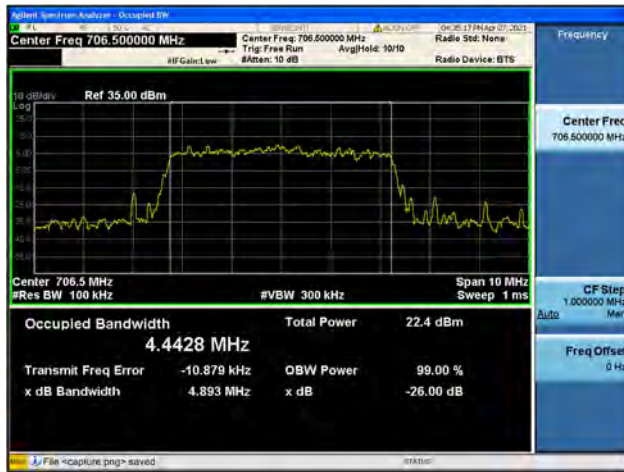
Band17 / 5MHz / Low CH / QPSK



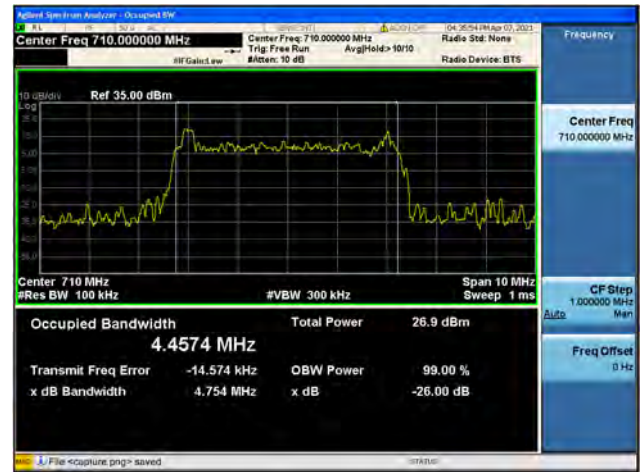
Band17 / 5MHz / Low CH / 16QAM



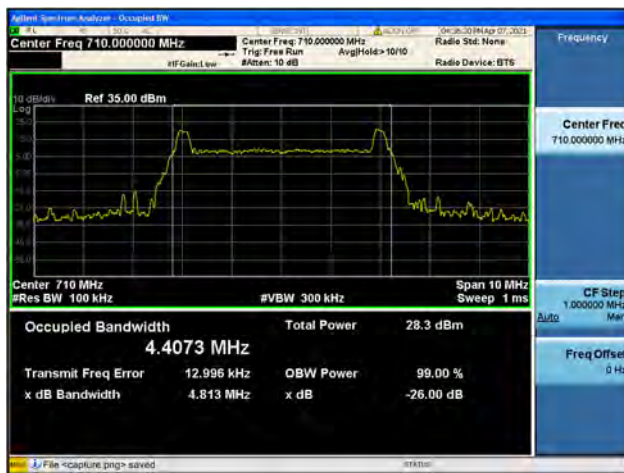
Band17 / 5MHz / Low CH / 64QAM



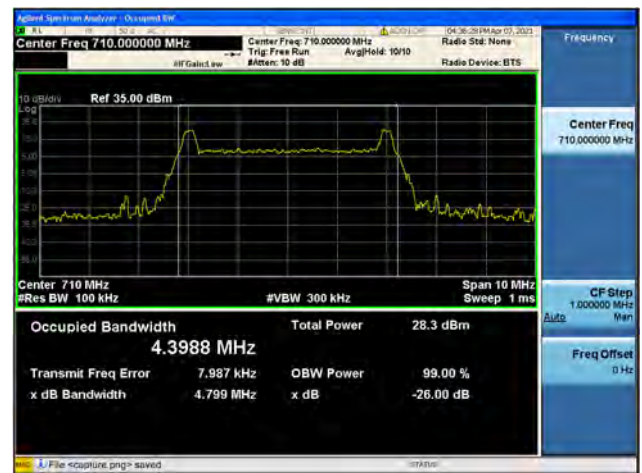
Band17 / 5MHz / Mid CH / QPSK



Band17 / 5MHz / Mid CH / 16QAM



Band17 / 5MHz / Mid CH / 64QAM

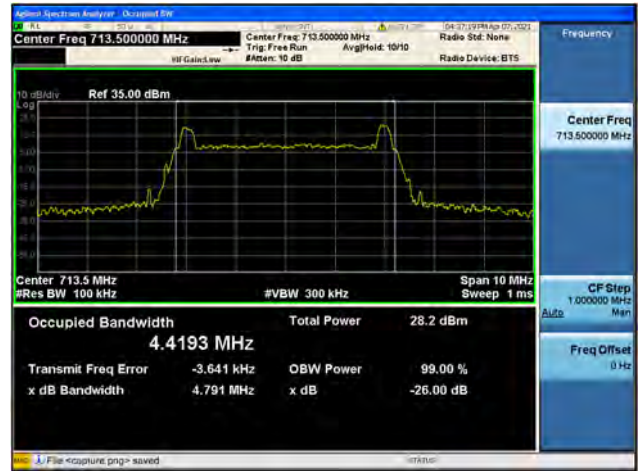




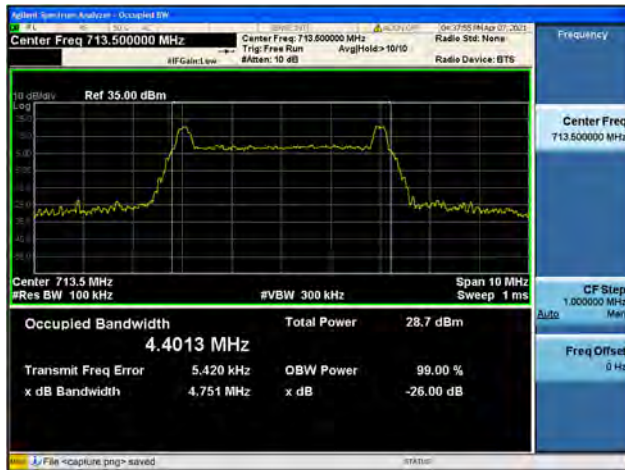
Band17 / 5MHz / High CH / QPSK



Band17 / 5MHz / High CH / 16QAM



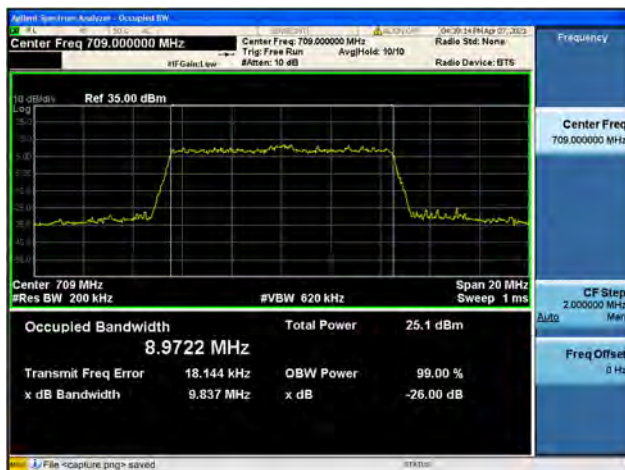
Band17 / 5MHz / High CH / 64QAM



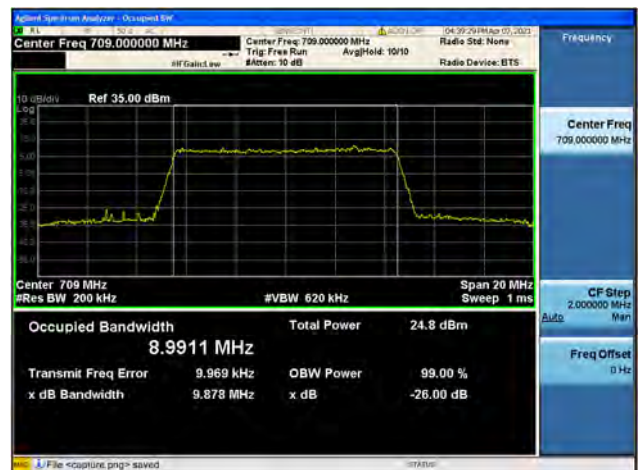
Band17 / 10MHz / Low CH / QPSK



Band17 / 10MHz / Low CH / 16QAM

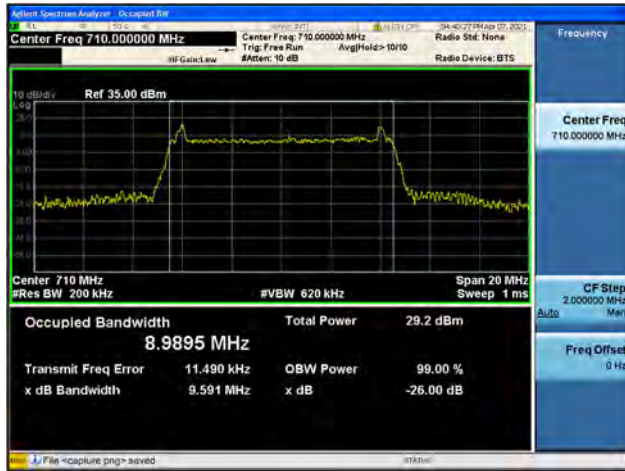


Band17 / 10MHz / Low CH / 64QAM

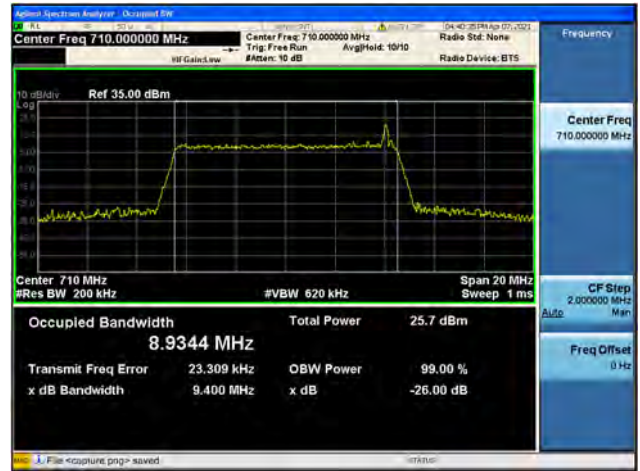




Band17 / 10MHz / Mid CH / QPSK



Band17 / 10MHz / Mid CH / 16QAM



Band17 / 10MHz / Mid CH / 64QAM



Band17 / 10MHz / High CH / QPSK



Band17 / 10MHz / High CH / 16QAM



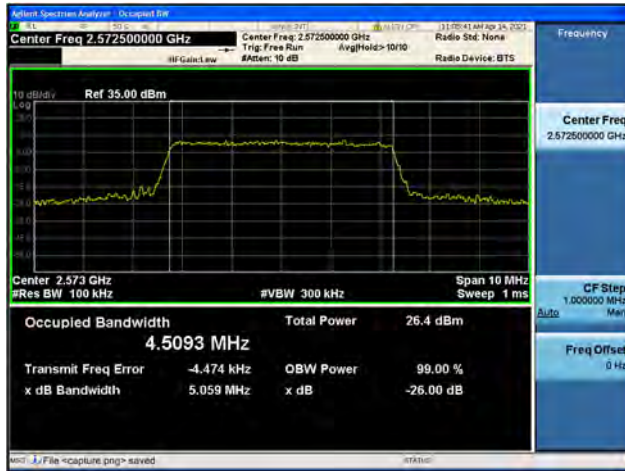
Band17 / 10MHz / High CH / 64QAM



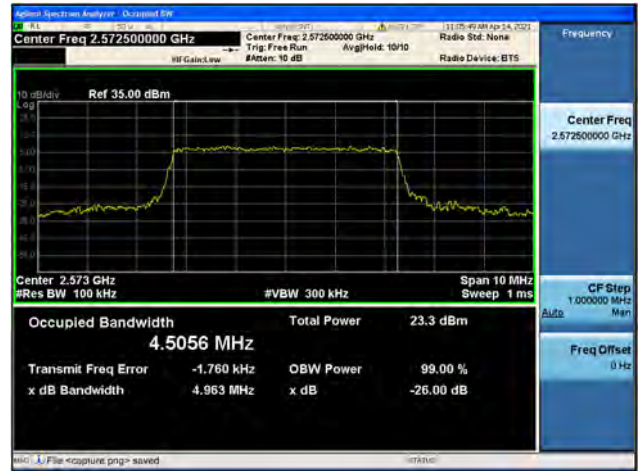




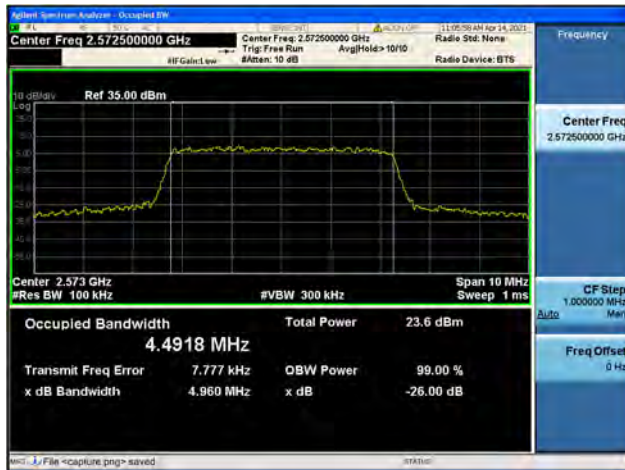
Band38 / 5MHz / Low CH / QPSK



Band38 / 5MHz / Low CH / 16QAM



Band38 / 5MHz / Low CH / 64QAM



Band38 / 5MHz / Mid CH / QPSK



Band38 / 5MHz / Mid CH / 16QAM



Band38 / 5MHz / Mid CH / 64QAM

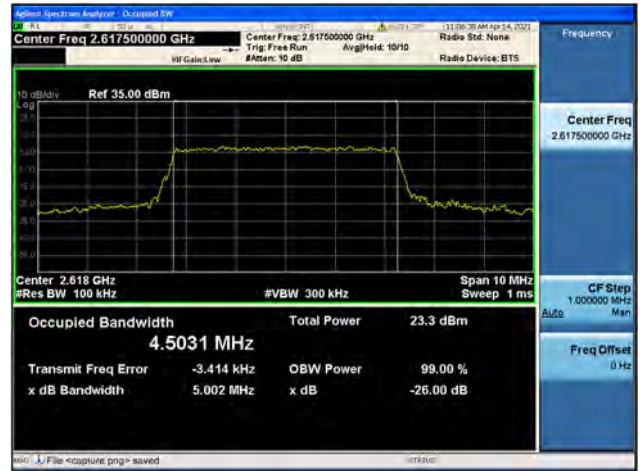




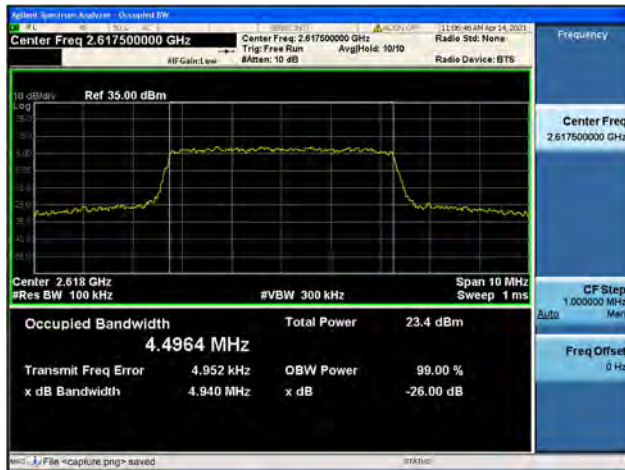
Band38 / 5MHz / High CH / QPSK



Band38 / 5MHz / High CH / 16QAM



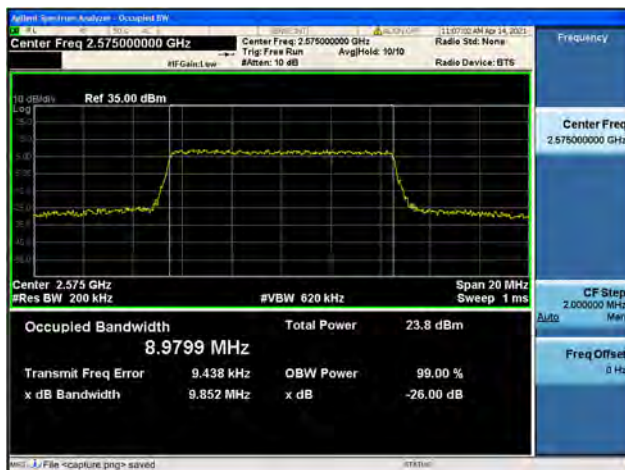
Band38 / 5MHz / High CH / 64QAM



Band38 / 10MHz / Low CH / QPSK



Band38 / 10MHz / Low CH / 16QAM



Band38 / 10MHz / Low CH / 64QAM





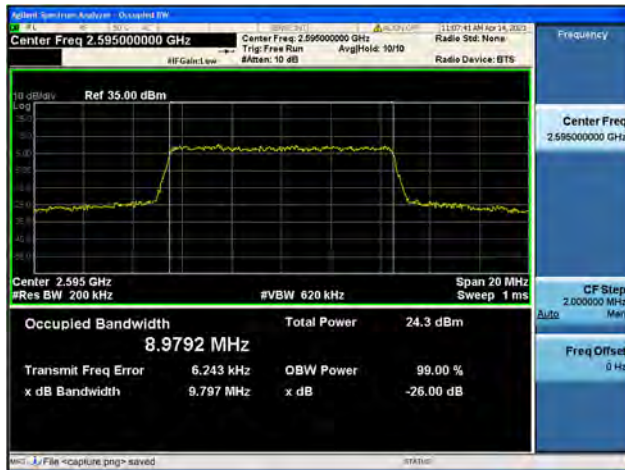
Band38 / 10MHz / Mid CH / QPSK



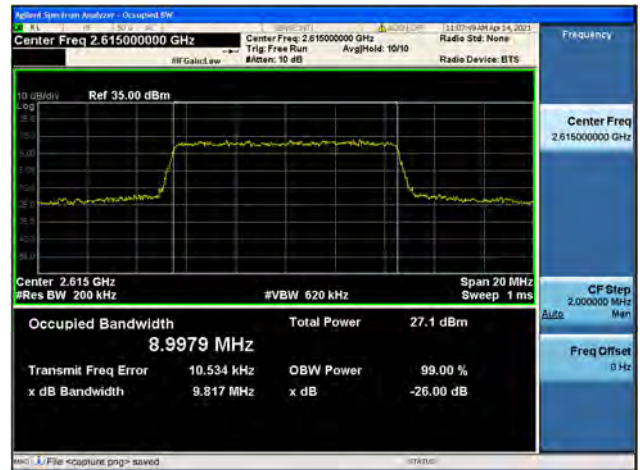
Band38 / 10MHz / Mid CH / 16QAM



Band38 / 10MHz / Mid CH / 64QAM



Band38 / 10MHz / High CH / QPSK



Band38 / 10MHz / High CH / 16QAM

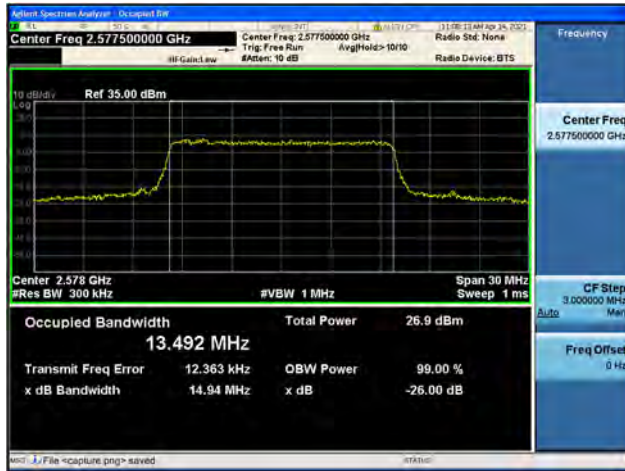


Band38 / 10MHz / High CH / 64QAM

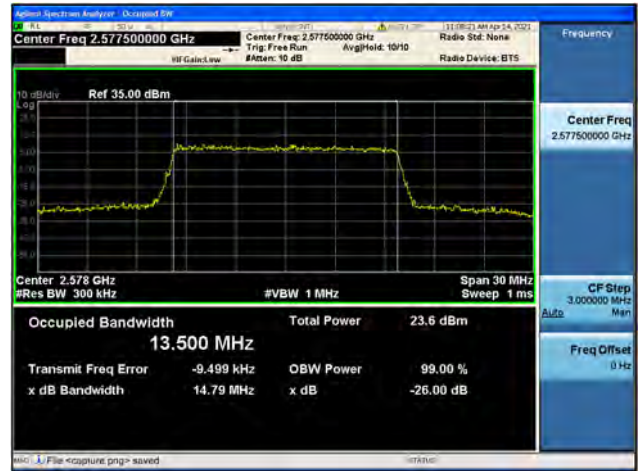




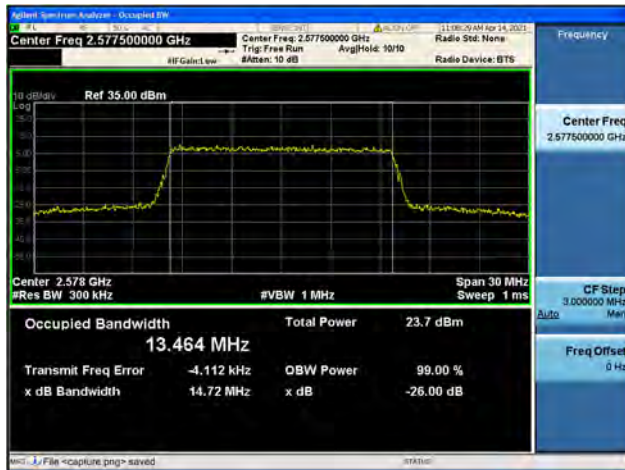
Band38 / 15MHz / Low CH / QPSK



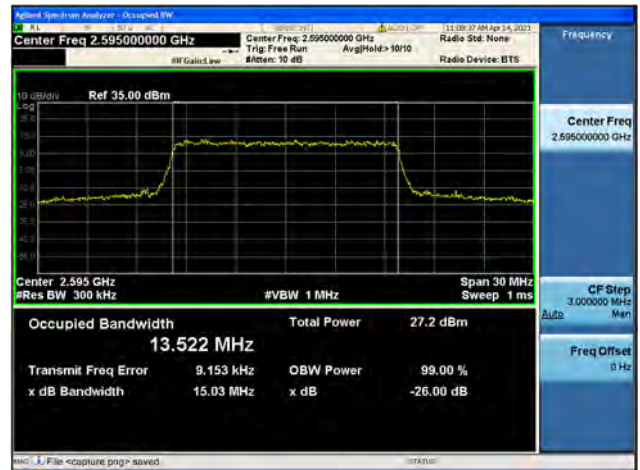
Band38 / 15MHz / Low CH / 16QAM



Band38 / 15MHz / Low CH / 64QAM



Band38 / 15MHz / Mid CH / QPSK



Band38 / 15MHz / Mid CH / 16QAM

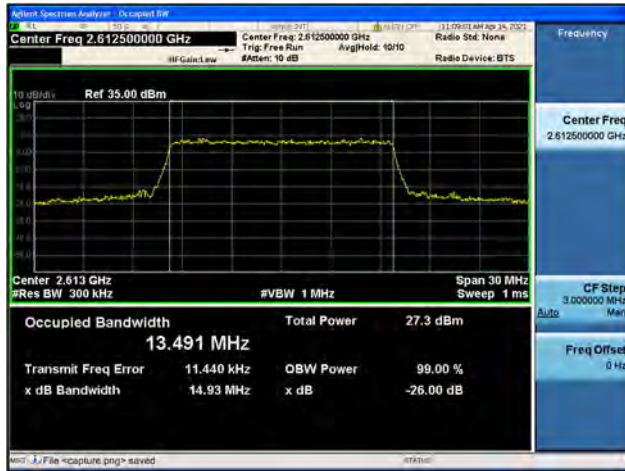


Band38 / 15MHz / Mid CH / 64QAM

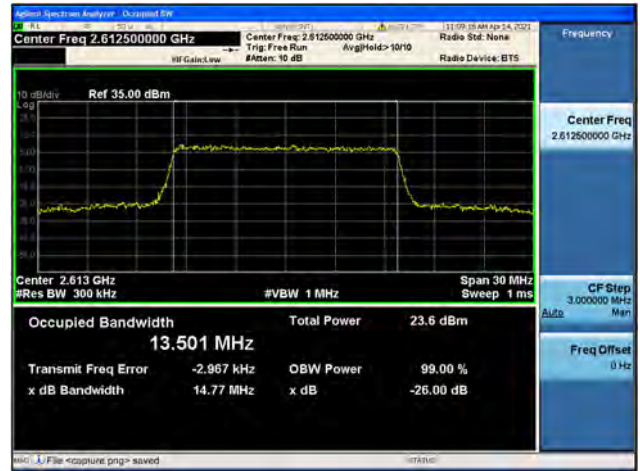




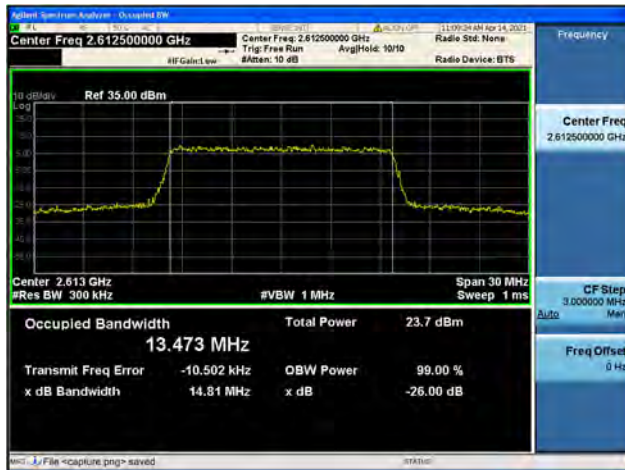
Band38 / 15MHz / High CH / QPSK



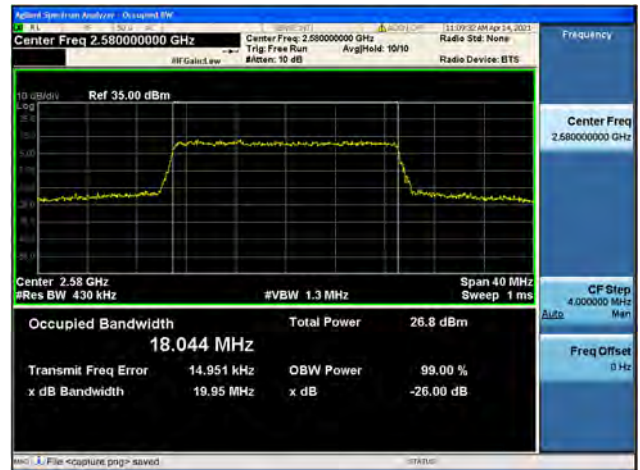
Band38 / 15MHz / High CH / 16QAM



Band38 / 15MHz / High CH / 64QAM



Band38 / 20MHz / Low CH / QPSK



Band38 / 20MHz / Low CH / 16QAM



Band38 / 20MHz / Low CH / 64QAM

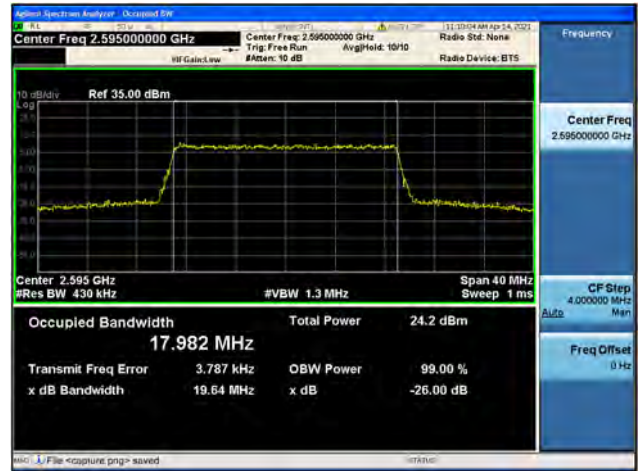




Band38 / 20MHz / Mid CH / QPSK



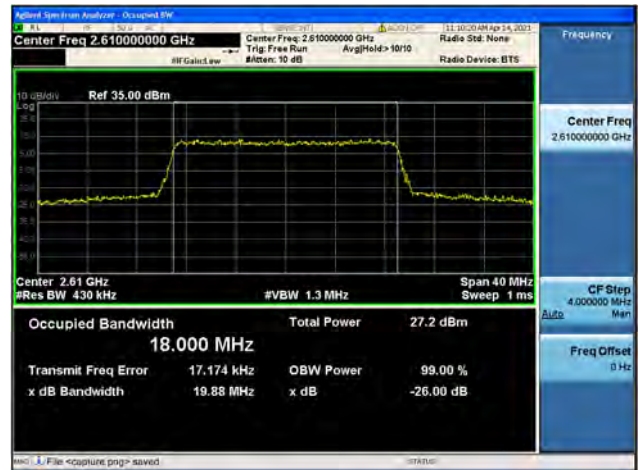
Band38 / 20MHz / Mid CH / 16QAM



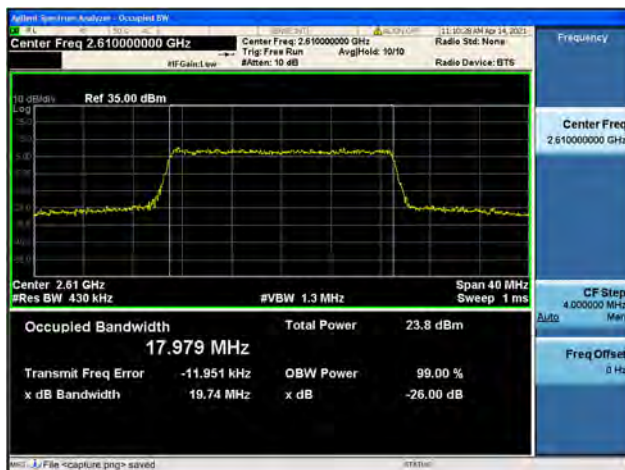
Band38 / 20MHz / Mid CH / 64QAM



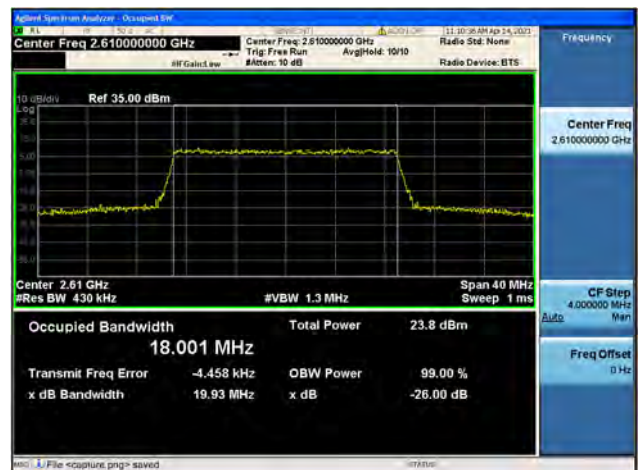
Band38 / 20MHz / High CH / QPSK



Band38 / 20MHz / High CH / 16QAM



Band38 / 20MHz / High CH / 64QAM



## 2.3. Frequency Stability

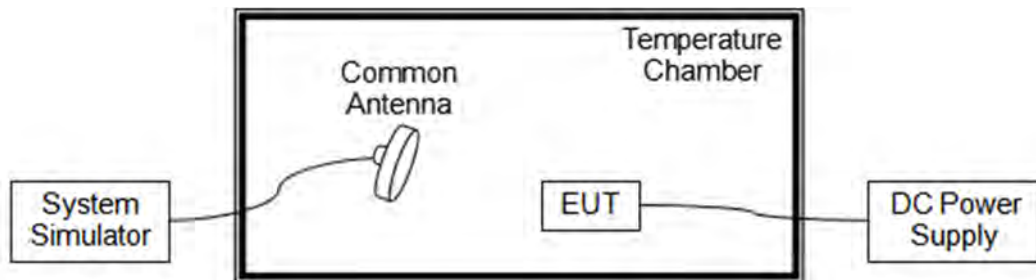
### 2.3.1. Requirement

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

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

**Note:** The operating temperature of EUT is from  $0^{\circ}\text{C}$  to  $55^{\circ}\text{C}$ , which are specified by the applicant.

### 2.3.2. Test Description



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

### 2.3.3. Test Procedure

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