



# TEST REPORT

**APPLICANT** : BLU Products, Inc.

**PRODUCT NAME** : Smart Phone

**MODEL NAME** : G91 MAX

**BRAND NAME** : BLU

**FCC ID** : YHLBLUG91MX

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

**RECEIPT DATE** : 2021-10-20

**TEST DATE** : 2021-10-21 to 2021-11-22

**ISSUE DATE** : 2021-11-29

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Change History		
Version	Date	Reason for change
1.0	2021-11-29	First edition



# 1. Technical Information

**Note:** Provide by applicant.

## 1.1. Applicant and Manufacturer Information

<b>Applicant:</b>	BLU Products, Inc.
<b>Applicant Address:</b>	10814 NW 33rd St # 100 Doral, FL 33172,USA
<b>Manufacturer:</b>	BLU Products, Inc.
<b>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>Sample No.:</b>	15#	
<b>Hardware Version:</b>	KF7F2A	
<b>Software Version:</b>	BLU_G0690WW_V11.0.02.01_GENERIC_20211115_1050	
<b>Modulation Type:</b>	QPSK, 16QAM, 64QAM	
<b>Carrier Aggregation:</b>	CA_5B, CA_7C, CA_38C	
<b>Operation Band:</b>	Band 2 / 4 / 5 / 7 / 12 / 13 / 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 13	Tx: 777MHz–787MHz
		Rx: 746MHz–756MHz
	LTE Band 17	Tx: 704MHz - 716MHz
		Rx: 734MHz – 746MHz
LTE Band 38	Tx: 2570MHz–2620MHz	
	Rx: 2570MHz–2620MHz	



<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 13	5 MHz, 10MHz
	LTE Band 17	5 MHz, 10MHz
	LTE Band 38	5 MHz, 10MHz, 15MHz, 20MHz
<b>Antenna Type:</b>	PIFA Antenna	
<b>Antenna Gain:</b>	LTE Band 2	0.30dBi
	LTE Band 4	1.47dBi
	LTE Band 5	-2.10dBi
	LTE Band 7	0.80dBi
	LTE Band 12	-2.40dBi
	LTE Band 13	-2.40dBi
	LTE Band 17	-2.40dBi
	LTE Band 38	0.80dBi
<b>Accessory Information:</b>	Battery	
	Brand Name:	BLU
	Model No.:	C906249490P
	Serial No.:	N/A
	Capacity:	4900mAh
	Rated Voltage:	3.87V
	Charge Limit:	4.45V
	Manufacturer:	Shenzhen shi jiu li yuan electronic technology Co.,Ltd
	AC Adapter	
	Brand Name:	BLU
	Model No.:	US-KB-2000
	Serial No.:	N/A
	Rated Output:	3.6-6V=3000mA 6-9V=2000mA 9-12V=1500mA
	Rated Input:	100-240V~50/60Hz, 0.6A
	Manufacturer:	Shenzhen Tianyin Electronics Co.,Ltd

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



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

<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	0.228	0.200	0.197	18M0G7D	18M0W7D	18M0W7D	
15	0.218	0.191	0.195	13M5G7D	13M5W7D	13M5W7D	
10	0.226	0.203	0.187	9M02G7D	8M97W7D	8M99W7D	
5	0.225	0.203	0.199	4M50G7D	4M51W7D	4M50W7D	
3	0.226	0.206	0.198	2M69G7D	2M69W7D	2M69W7D	
1.4	0.224	0.183	0.189	1M09G7D	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	0.305	0.263	0.261	18M0G7D	18M0W7D	18M0W7D	
15	0.302	0.251	0.259	13M5G7D	13M5W7D	13M5W7D	
10	0.299	0.253	0.262	9M01G7D	8M96W7D	9M00W7D	
5	0.297	0.253	0.259	4M50G7D	4M51W7D	4M51W7D	
3	0.303	0.259	0.246	2M69G7D	2M70W7D	2M69W7D	
1.4	0.296	0.259	0.247	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	0.085	0.070	0.067	8M99G7D	8M97W7D	9M00W7D	
5	0.084	0.069	0.067	4M50G7D	4M50W7D	4M50W7D	
3	0.084	0.072	0.070	2M69G7D	2M69W7D	2M70W7D	
1.4	0.084	0.072	0.067	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	0.279	0.212	0.208	18M0G7D	18M0W7D	18M0W7D	
15	0.245	0.217	0.210	13M5G7D	13M5W7D	13M5W7D	
10	0.240	0.215	0.211	9M01G7D	8M97W7D	8M99W7D	
5	0.240	0.206	0.207	4M51G7D	4M50W7D	4M51W7D	
<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	0.080	0.064	0.065	9M00G7D	8M96W7D	8M97W7D	
5	0.078	0.064	0.064	4M50G7D	4M50W7D	4M50W7D	
3	0.079	0.067	0.063	2M69G7D	2M69W7D	2M70W7D	
1.4	0.077	0.065	0.061	1M10G7D	1M10W7D	1M10W7D	



<b>LTE Band 13</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	0.079	0.065	0.066	9M00G7D	8M97W7D	8M98W7D
5	0.078	0.065	0.065	4M50G7D	4M51W7D	4M51W7D
<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	0.066	0.064	9M01G7D	8M96W7D	8M98W7D
5	0.076	0.065	0.064	4M51G7D	4M51W7D	4M51W7D
<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	0.262	0.218	0.218	17M9G7D	18M0W7D	17M9W7D
15	0.258	0.222	0.222	13M5G7D	13M5W7D	13M5W7D
10	0.258	0.216	0.215	8M99G7D	8M98W7D	8M99W7D
5	0.254	0.224	0.223	4M50G7D	4M51W7D	4M52W7D



## 1.4. Test Standards and Results

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

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

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

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046 22.913(a)(2) 24.232(c) 27.50(c)(10) 27.50(d)(4) 27.50(h)(2)	Transmitter Conducted Output Power and E.R.P./E.I.R.P.	Nov 19&22, 2021	Chen Hao Lin Jiayong	PASS	No deviation
2.1049	Occupied Bandwidth	Oct 21&25, 2021	Li Huaijie	PASS	No deviation
2.1055 22.355 24.235 27.54	Frequency Stability	Oct 25, 2021	Li Huaijie	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Oct 21, 2021	Li Huaijie	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(g) 27.53(h) 27.53(m)(4)	Conducted Spurious Emissions	Oct 25&26, 2021	Li Huaijie	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(g)	Band Edge	Oct 21&25, 2021	Li Huaijie	PASS	No deviation



27.53(h) 27.53(m)(4)					
2.1051 22.917(a) 24.238(a) 27.53(g) 27.53(h) 27.53(m)(4)	Radiated Spurious Emissions	Oct 24, 2021	Huang Zhiye	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% confidence intervals.

## 1.5. Environmental Conditions

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

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





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

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

#### **2.1.1. Requirement**

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

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

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

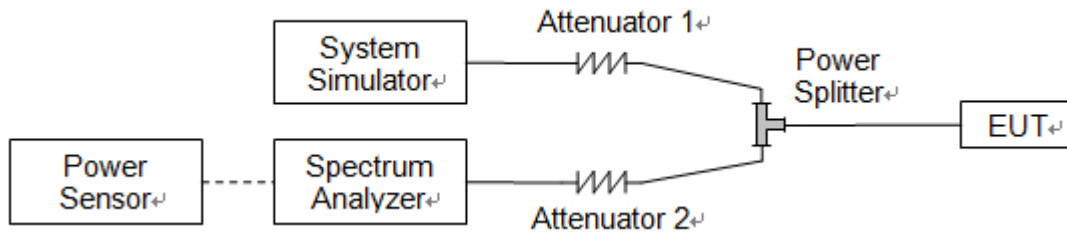
According to FCC section 22.913 (a)(2) for LTE Band 5, the E.R.P. of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

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.

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

### 2.1.2. Test Description



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

### 2.1.3. Test Procedure

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

E.I.R.P. (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

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



2.1.4. Result

Conducted Output Power:

LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	23.25	23.28	23.22
20	QPSK	1	49	23.23	23.17	23.10
20	QPSK	1	99	23.17	23.13	23.11
20	QPSK	50	0	22.33	22.42	22.35
20	QPSK	50	24	22.34	22.39	22.39
20	QPSK	50	50	22.39	22.35	22.41
20	QPSK	100	0	22.32	22.41	22.37
20	16QAM	1	0	22.38	22.38	22.40
20	16QAM	1	49	22.22	22.52	22.48
20	16QAM	1	99	22.47	22.32	22.72
20	16QAM	50	0	22.40	22.37	22.35
20	16QAM	50	24	22.36	22.41	22.42
20	16QAM	50	50	22.44	22.41	22.48
20	16QAM	100	0	22.47	22.48	22.35
20	64QAM	1	0	22.42	22.61	22.35
20	64QAM	1	49	22.37	22.55	22.46
20	64QAM	1	99	22.32	22.65	22.65
20	64QAM	50	0	22.42	22.34	22.39
20	64QAM	50	24	22.45	22.39	22.44
20	64QAM	50	50	22.44	22.45	22.39
20	64QAM	100	0	22.32	22.29	22.30



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	23.06	23.09	23.00
15	QPSK	1	37	22.85	23.21	23.09
15	QPSK	1	74	23.22	23.14	23.22
15	QPSK	36	0	22.19	22.28	22.27
15	QPSK	36	20	22.18	22.37	22.34
15	QPSK	36	39	22.30	22.31	22.28
15	QPSK	75	0	22.22	22.28	22.24
15	16QAM	1	0	22.31	22.39	22.33
15	16QAM	1	37	22.44	22.47	22.33
15	16QAM	1	74	22.39	22.51	22.51
15	16QAM	36	0	22.18	22.23	22.26
15	16QAM	36	20	22.27	22.20	22.33
15	16QAM	36	39	22.32	22.41	22.38
15	16QAM	75	0	22.19	22.21	22.30
15	64QAM	1	0	22.39	22.15	22.21
15	64QAM	1	37	22.38	22.19	22.61
15	64QAM	1	74	22.27	22.31	22.46
15	64QAM	36	0	22.12	22.29	22.17
15	64QAM	36	20	22.32	22.34	22.24
15	64QAM	36	39	22.20	22.25	22.34
15	64QAM	75	0	22.19	22.26	22.25



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	23.03	23.02	23.12
10	QPSK	1	25	23.14	23.24	23.12
10	QPSK	1	49	23.03	23.11	23.03
10	QPSK	25	0	22.30	22.31	22.27
10	QPSK	25	12	22.26	22.38	22.31
10	QPSK	25	25	22.17	22.30	22.26
10	QPSK	50	0	22.23	22.32	22.30
10	16QAM	1	0	22.71	22.64	22.63
10	16QAM	1	25	22.40	22.36	22.43
10	16QAM	1	49	22.35	22.43	22.22
10	16QAM	25	0	22.25	22.24	22.21
10	16QAM	25	12	22.41	22.21	22.21
10	16QAM	25	25	22.21	22.41	22.51
10	16QAM	50	0	22.78	22.71	22.75
10	64QAM	1	0	22.29	22.34	22.34
10	64QAM	1	25	22.32	22.37	22.41
10	64QAM	1	49	21.99	22.12	22.09
10	64QAM	25	0	22.29	22.33	22.34
10	64QAM	25	12	22.32	22.30	22.31
10	64QAM	25	25	22.25	22.03	22.25
10	64QAM	50	0	22.26	22.26	22.23



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	23.17	23.22	23.16
5	QPSK	1	12	23.16	23.11	23.14
5	QPSK	1	24	23.12	23.20	23.21
5	QPSK	12	0	22.29	22.20	22.27
5	QPSK	12	7	22.30	22.35	22.27
5	QPSK	12	13	22.29	22.28	22.31
5	QPSK	25	0	22.28	22.26	22.28
5	16QAM	1	0	22.41	22.31	22.69
5	16QAM	1	12	22.39	22.32	22.69
5	16QAM	1	24	22.42	22.29	22.68
5	16QAM	12	0	22.51	22.65	22.51
5	16QAM	12	7	22.41	22.41	22.21
5	16QAM	12	13	22.21	22.54	22.31
5	16QAM	25	0	22.31	22.77	22.75
5	64QAM	1	0	22.51	22.23	22.28
5	64QAM	1	12	22.67	22.33	22.44
5	64QAM	1	24	22.68	22.32	22.34
5	64QAM	12	0	22.33	22.26	22.25
5	64QAM	12	7	22.39	22.23	22.23
5	64QAM	12	13	22.36	22.32	22.30
5	64QAM	25	0	22.43	22.23	22.30



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	23.11	23.18	23.10
3	QPSK	1	8	23.21	23.24	23.07
3	QPSK	1	14	23.22	23.09	23.09
3	QPSK	8	0	22.17	22.12	22.14
3	QPSK	8	4	22.23	22.17	22.18
3	QPSK	8	7	22.23	22.17	22.13
3	QPSK	15	0	22.15	22.23	22.16
3	16QAM	1	0	22.31	22.22	22.16
3	16QAM	1	8	22.35	22.29	22.25
3	16QAM	1	14	22.28	22.25	22.13
3	16QAM	8	0	22.71	22.84	22.76
3	16QAM	8	4	22.78	22.75	22.81
3	16QAM	8	7	22.68	22.73	22.76
3	16QAM	15	0	22.71	22.75	22.70
3	64QAM	1	0	22.24	22.17	22.20
3	64QAM	1	8	22.66	22.65	22.25
3	64QAM	1	14	22.27	22.63	22.27
3	64QAM	8	0	22.19	22.21	22.05
3	64QAM	8	4	22.29	22.19	22.19
3	64QAM	8	7	22.39	22.28	22.14
3	64QAM	15	0	22.24	22.24	22.22



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	23.17	23.20	23.15
1.4	QPSK	1	3	23.07	23.05	23.04
1.4	QPSK	1	5	23.04	23.02	23.00
1.4	QPSK	3	0	23.04	23.04	23.00
1.4	QPSK	3	1	23.08	23.05	23.03
1.4	QPSK	3	3	23.10	23.14	23.03
1.4	QPSK	6	0	22.13	22.11	22.10
1.4	16QAM	1	0	22.16	22.16	22.10
1.4	16QAM	1	3	22.12	22.32	22.30
1.4	16QAM	1	5	22.00	22.20	21.88
1.4	16QAM	3	0	22.02	22.07	22.04
1.4	16QAM	3	1	22.20	22.02	22.07
1.4	16QAM	3	3	22.22	22.19	21.93
1.4	16QAM	6	0	22.23	22.16	22.11
1.4	64QAM	1	0	22.11	22.03	22.06
1.4	64QAM	1	3	22.13	22.34	22.22
1.4	64QAM	1	5	22.11	22.46	22.05
1.4	64QAM	3	0	22.14	22.20	22.21
1.4	64QAM	3	1	22.23	22.20	22.41
1.4	64QAM	3	3	22.15	22.29	22.06
1.4	64QAM	6	0	22.20	22.23	22.12





LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	23.30	23.38	23.37
20	QPSK	1	49	23.16	23.24	23.23
20	QPSK	1	99	23.08	23.21	23.33
20	QPSK	50	0	22.37	22.50	22.47
20	QPSK	50	24	22.37	22.45	22.45
20	QPSK	50	50	22.26	22.37	22.38
20	QPSK	100	0	22.36	22.40	22.47
20	16QAM	1	0	22.23	22.53	22.40
20	16QAM	1	49	22.38	22.15	22.29
20	16QAM	1	99	22.17	22.39	22.23
20	16QAM	50	0	22.36	22.29	22.43
20	16QAM	50	24	22.62	22.73	22.62
20	16QAM	50	50	22.58	22.59	22.59
20	16QAM	100	0	22.60	22.68	22.69
20	64QAM	1	0	22.34	22.45	22.67
20	64QAM	1	49	22.38	22.31	22.19
20	64QAM	1	99	22.65	22.22	22.69
20	64QAM	50	0	22.35	22.44	22.39
20	64QAM	50	24	22.37	22.48	22.42
20	64QAM	50	50	22.41	22.36	22.38
20	64QAM	100	0	22.44	22.42	22.51



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	23.17	23.21	23.31
15	QPSK	1	37	23.21	23.30	23.22
15	QPSK	1	74	23.08	23.30	23.33
15	QPSK	36	0	22.31	22.38	22.41
15	QPSK	36	20	22.35	22.48	22.44
15	QPSK	36	39	22.40	22.39	22.48
15	QPSK	75	0	22.35	22.37	22.38
15	16QAM	1	0	22.29	22.51	22.23
15	16QAM	1	37	22.37	22.37	22.21
15	16QAM	1	74	22.23	22.53	22.32
15	16QAM	36	0	22.24	22.26	22.45
15	16QAM	36	20	22.19	22.26	22.32
15	16QAM	36	39	22.15	22.24	22.30
15	16QAM	75	0	22.26	22.27	22.36
15	64QAM	1	0	22.21	22.52	22.57
15	64QAM	1	37	22.63	22.39	22.45
15	64QAM	1	74	22.67	22.38	22.42
15	64QAM	36	0	22.32	22.39	22.43
15	64QAM	36	20	22.38	22.40	22.42
15	64QAM	36	39	22.41	22.37	22.39
15	64QAM	75	0	22.34	22.45	22.38



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	23.09	23.28	23.11
10	QPSK	1	25	23.07	23.20	23.21
10	QPSK	1	49	23.15	22.98	23.21
10	QPSK	25	0	22.14	22.36	22.38
10	QPSK	25	12	22.26	22.32	22.36
10	QPSK	25	25	22.15	22.26	22.33
10	QPSK	50	0	22.21	22.31	22.23
10	16QAM	1	0	22.20	22.35	22.11
10	16QAM	1	25	22.47	22.21	22.53
10	16QAM	1	49	22.54	22.44	22.43
10	16QAM	25	0	22.20	22.19	22.18
10	16QAM	25	12	22.12	22.22	22.19
10	16QAM	25	25	22.46	22.37	22.46
10	16QAM	50	0	22.40	22.44	22.56
10	64QAM	1	0	22.26	22.34	22.24
10	64QAM	1	25	22.33	22.62	22.71
10	64QAM	1	49	22.31	22.35	22.30
10	64QAM	25	0	22.15	22.29	22.28
10	64QAM	25	12	22.24	22.35	22.39
10	64QAM	25	25	22.12	22.24	22.26
10	64QAM	50	0	22.18	22.25	22.24



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	22.99	23.21	23.26
5	QPSK	1	12	23.05	23.20	23.17
5	QPSK	1	24	23.00	23.12	23.11
5	QPSK	12	0	22.22	22.22	22.26
5	QPSK	12	7	22.22	22.33	22.30
5	QPSK	12	13	22.17	22.34	22.26
5	QPSK	25	0	22.20	22.24	22.30
5	16QAM	1	0	22.10	22.51	22.19
5	16QAM	1	12	22.21	22.56	22.15
5	16QAM	1	24	22.15	22.50	22.10
5	16QAM	12	0	22.14	22.08	22.11
5	16QAM	12	7	22.17	22.21	22.19
5	16QAM	12	13	22.44	22.51	22.55
5	16QAM	25	0	22.45	22.56	22.49
5	64QAM	1	0	22.22	22.66	22.64
5	64QAM	1	12	22.60	22.36	22.63
5	64QAM	1	24	22.56	22.26	22.33
5	64QAM	12	0	22.23	22.30	22.32
5	64QAM	12	7	22.22	22.31	22.37
5	64QAM	12	13	22.23	22.29	22.28
5	64QAM	25	0	22.18	22.32	22.23



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	23.11	23.12	23.24
3	QPSK	1	8	23.20	23.34	23.28
3	QPSK	1	14	23.00	23.19	23.19
3	QPSK	8	0	22.20	22.26	22.27
3	QPSK	8	4	22.26	22.34	22.36
3	QPSK	8	7	22.22	22.32	22.32
3	QPSK	15	0	22.22	22.28	22.22
3	16QAM	1	0	22.30	22.39	22.43
3	16QAM	1	8	22.52	22.52	22.26
3	16QAM	1	14	22.43	22.21	22.29
3	16QAM	8	0	22.22	22.23	22.32
3	16QAM	8	4	22.32	22.32	22.33
3	16QAM	8	7	22.54	22.62	22.66
3	16QAM	15	0	22.54	22.52	22.59
3	64QAM	1	0	22.21	22.30	22.28
3	64QAM	1	8	22.40	22.28	22.44
3	64QAM	1	14	22.21	22.28	22.11
3	64QAM	8	0	22.19	22.23	22.17
3	64QAM	8	4	22.31	22.29	22.33
3	64QAM	8	7	22.25	22.32	22.44
3	64QAM	15	0	22.21	22.29	22.20



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	22.86	23.07	23.08
1.4	QPSK	1	3	23.20	23.20	23.24
1.4	QPSK	1	5	23.06	23.15	23.17
1.4	QPSK	3	0	23.14	23.11	23.10
1.4	QPSK	3	1	23.10	23.20	23.25
1.4	QPSK	3	3	23.09	23.16	23.15
1.4	QPSK	6	0	22.25	22.27	22.23
1.4	16QAM	1	0	22.19	22.66	22.32
1.4	16QAM	1	3	22.32	22.40	22.44
1.4	16QAM	1	5	22.38	22.54	22.34
1.4	16QAM	3	0	22.41	22.45	22.36
1.4	16QAM	3	1	22.42	22.45	22.47
1.4	16QAM	3	3	22.41	22.53	22.42
1.4	16QAM	6	0	22.32	22.33	22.24
1.4	64QAM	1	0	22.10	22.04	22.18
1.4	64QAM	1	3	22.36	22.34	22.46
1.4	64QAM	1	5	22.27	22.23	22.07
1.4	64QAM	3	0	22.18	22.16	22.35
1.4	64QAM	3	1	22.09	22.24	22.21
1.4	64QAM	3	3	22.15	22.32	22.20
1.4	64QAM	6	0	22.14	22.15	22.22



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	23.53	23.54	23.46
10	QPSK	1	25	23.39	23.42	23.22
10	QPSK	1	49	23.31	23.43	23.11
10	QPSK	25	0	22.63	22.65	22.46
10	QPSK	25	12	22.39	22.41	22.46
10	QPSK	25	25	22.39	22.50	22.55
10	QPSK	50	0	22.45	22.33	22.47
10	16QAM	1	0	22.49	22.68	22.39
10	16QAM	1	25	22.51	22.54	22.22
10	16QAM	1	49	22.34	22.40	22.47
10	16QAM	25	0	22.43	22.44	22.26
10	16QAM	25	12	22.37	22.45	22.23
10	16QAM	25	25	22.40	22.33	22.36
10	16QAM	50	0	22.41	22.32	22.22
10	64QAM	1	0	22.37	22.47	22.35
10	64QAM	1	25	22.34	22.54	22.34
10	64QAM	1	49	22.23	22.45	22.36
10	64QAM	25	0	22.34	22.45	22.12
10	64QAM	25	12	22.33	22.50	22.21
10	64QAM	25	25	22.45	22.34	22.04
10	64QAM	50	0	22.41	22.37	22.23



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	23.48	23.44	23.42
5	QPSK	1	12	23.38	23.49	23.33
5	QPSK	1	24	23.38	23.33	23.33
5	QPSK	12	0	22.33	22.38	22.24
5	QPSK	12	7	22.40	22.41	22.33
5	QPSK	12	13	22.45	22.29	22.24
5	QPSK	25	0	22.36	22.32	22.24
5	16QAM	1	0	22.65	22.58	22.34
5	16QAM	1	12	22.35	22.57	22.33
5	16QAM	1	24	22.22	22.57	22.40
5	16QAM	12	0	22.31	22.40	22.39
5	16QAM	12	7	22.38	22.41	22.23
5	16QAM	12	13	22.38	22.29	22.34
5	16QAM	25	0	22.39	22.44	22.39
5	64QAM	1	0	22.46	22.34	22.45
5	64QAM	1	12	22.34	22.28	22.42
5	64QAM	1	24	22.48	22.32	22.26
5	64QAM	12	0	22.20	22.34	22.14
5	64QAM	12	7	22.24	22.40	22.18
5	64QAM	12	13	22.42	22.37	21.94
5	64QAM	25	0	22.30	22.37	21.98





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	23.17	23.48	23.33
3	QPSK	1	8	23.43	23.44	23.35
3	QPSK	1	14	23.44	23.42	23.16
3	QPSK	8	0	22.47	22.60	22.58
3	QPSK	8	4	22.61	22.67	22.64
3	QPSK	8	7	22.56	22.58	22.45
3	QPSK	15	0	22.54	22.60	22.59
3	16QAM	1	0	22.56	22.67	22.74
3	16QAM	1	8	22.49	22.75	22.59
3	16QAM	1	14	22.54	22.80	22.55
3	16QAM	8	0	22.50	22.59	22.33
3	16QAM	8	4	22.66	22.77	22.34
3	16QAM	8	7	22.58	22.64	22.38
3	16QAM	15	0	22.52	22.54	22.09
3	64QAM	1	0	22.47	22.35	22.56
3	64QAM	1	8	22.35	22.59	22.35
3	64QAM	1	14	22.37	22.55	22.36
3	64QAM	8	0	22.47	22.57	22.55
3	64QAM	8	4	22.69	22.53	22.47
3	64QAM	8	7	22.64	22.56	22.53
3	64QAM	15	0	22.53	22.63	22.43



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	23.38	23.45	23.49
1.4	QPSK	1	3	23.51	23.44	23.51
1.4	QPSK	1	5	23.40	23.34	23.35
1.4	QPSK	3	0	23.41	23.47	23.43
1.4	QPSK	3	1	23.47	23.34	23.44
1.4	QPSK	3	3	23.48	23.40	23.40
1.4	QPSK	6	0	22.52	22.51	22.50
1.4	16QAM	1	0	22.65	22.46	22.63
1.4	16QAM	1	3	22.45	22.69	22.58
1.4	16QAM	1	5	22.84	22.52	22.58
1.4	16QAM	3	0	22.37	22.35	22.49
1.4	16QAM	3	1	22.40	22.67	22.53
1.4	16QAM	3	3	22.48	22.59	22.47
1.4	16QAM	6	0	22.67	22.54	22.58
1.4	64QAM	1	0	22.20	22.37	22.39
1.4	64QAM	1	3	22.51	22.52	22.47
1.4	64QAM	1	5	22.46	22.45	22.33
1.4	64QAM	3	0	22.12	22.39	22.40
1.4	64QAM	3	1	22.40	22.34	22.35
1.4	64QAM	3	3	22.30	22.47	22.51
1.4	64QAM	6	0	22.51	22.63	22.52



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20850	21100	21350
Frequency (MHz)				2510	2535	2560
20	QPSK	1	0	23.64	23.66	23.62
20	QPSK	1	49	23.51	23.44	23.53
20	QPSK	1	99	23.35	23.39	23.45
20	QPSK	50	0	22.33	22.40	22.37
20	QPSK	50	24	22.09	22.06	21.96
20	QPSK	50	50	22.19	22.22	22.19
20	QPSK	100	0	22.14	22.16	22.13
20	16QAM	1	0	22.07	22.17	22.35
20	16QAM	1	49	22.22	22.08	22.36
20	16QAM	1	99	22.16	22.47	22.12
20	16QAM	50	0	22.01	22.11	22.04
20	16QAM	50	24	22.06	21.98	22.09
20	16QAM	50	50	22.14	22.19	22.02
20	16QAM	100	0	21.90	22.02	22.00
20	64QAM	1	0	22.38	22.22	21.95
20	64QAM	1	49	22.32	22.29	22.34
20	64QAM	1	99	22.30	22.35	22.26
20	64QAM	50	0	22.04	22.05	22.10
20	64QAM	50	24	22.09	22.10	22.10
20	64QAM	50	50	22.13	22.20	22.05
20	64QAM	100	0	22.06	22.03	22.15



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	22.98	23.07	23.07
15	QPSK	1	37	23.08	23.05	23.09
15	QPSK	1	74	23.02	23.09	23.09
15	QPSK	36	0	22.12	22.21	22.23
15	QPSK	36	20	22.20	22.27	22.22
15	QPSK	36	39	22.23	22.26	22.30
15	QPSK	75	0	22.29	22.22	22.24
15	16QAM	1	0	22.45	22.56	22.63
15	16QAM	1	37	22.27	22.38	22.36
15	16QAM	1	74	22.31	22.31	22.53
15	16QAM	36	0	22.02	22.13	22.15
15	16QAM	36	20	22.09	22.12	22.11
15	16QAM	36	39	22.15	22.13	22.02
15	16QAM	75	0	21.98	22.06	21.98
15	64QAM	1	0	22.28	22.25	22.13
15	64QAM	1	37	22.18	22.33	22.42
15	64QAM	1	74	22.17	22.29	22.35
15	64QAM	36	0	22.02	22.10	22.09
15	64QAM	36	20	22.13	22.12	22.19
15	64QAM	36	39	22.17	22.08	22.10
15	64QAM	75	0	22.02	22.12	22.07



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	22.97	22.84	22.87
10	QPSK	1	25	23.00	22.90	22.92
10	QPSK	1	49	22.93	22.90	22.92
10	QPSK	25	0	22.04	22.04	22.03
10	QPSK	25	12	22.00	22.12	22.17
10	QPSK	25	25	21.93	22.11	22.11
10	QPSK	50	0	22.02	22.14	22.13
10	16QAM	1	0	22.07	22.25	22.10
10	16QAM	1	25	22.06	22.08	22.13
10	16QAM	1	49	22.53	22.43	22.34
10	16QAM	25	0	22.08	21.96	22.04
10	16QAM	25	12	21.90	22.07	22.00
10	16QAM	25	25	21.95	21.98	21.90
10	16QAM	50	0	21.98	22.07	21.92
10	64QAM	1	0	22.40	22.36	22.34
10	64QAM	1	25	22.09	22.34	22.17
10	64QAM	1	49	22.20	22.44	22.25
10	64QAM	25	0	22.06	22.04	22.08
10	64QAM	25	12	22.08	22.19	22.12
10	64QAM	25	25	22.01	21.91	21.90
10	64QAM	50	0	21.95	22.01	21.93



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5
5	QPSK	1	0	23.01	22.92	22.82
5	QPSK	1	12	22.88	22.81	22.89
5	QPSK	1	24	22.82	22.88	22.92
5	QPSK	12	0	21.96	22.04	21.96
5	QPSK	12	7	22.03	22.18	22.10
5	QPSK	12	13	22.05	22.21	22.06
5	QPSK	25	0	22.06	22.07	22.02
5	16QAM	1	0	22.04	22.02	22.08
5	16QAM	1	12	22.09	22.31	22.21
5	16QAM	1	24	22.15	22.34	22.16
5	16QAM	12	0	22.06	22.12	22.03
5	16QAM	12	7	22.07	22.09	22.05
5	16QAM	12	13	22.07	22.13	22.26
5	16QAM	25	0	22.04	22.09	22.11
5	64QAM	1	0	22.16	22.21	22.17
5	64QAM	1	12	22.21	22.33	22.21
5	64QAM	1	24	22.25	22.35	22.31
5	64QAM	12	0	22.08	22.05	22.10
5	64QAM	12	7	22.17	22.22	22.01
5	64QAM	12	13	22.12	22.21	22.07
5	64QAM	25	0	22.07	22.06	22.11



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	23.40	23.56	23.45
10	QPSK	1	25	23.26	23.39	23.42
10	QPSK	1	49	23.36	23.37	23.36
10	QPSK	25	0	22.65	22.75	22.66
10	QPSK	25	12	22.62	22.56	22.35
10	QPSK	25	25	22.67	22.73	22.66
10	QPSK	50	0	22.68	22.70	22.61
10	16QAM	1	0	22.61	22.16	22.29
10	16QAM	1	25	22.36	22.31	22.45
10	16QAM	1	49	22.45	22.50	22.39
10	16QAM	25	0	22.34	22.36	22.30
10	16QAM	25	12	22.38	22.42	22.31
10	16QAM	25	25	22.43	22.44	22.38
10	16QAM	50	0	22.33	22.41	22.46
10	64QAM	1	0	22.18	22.30	22.64
10	64QAM	1	25	22.62	22.68	22.27
10	64QAM	1	49	22.64	22.32	22.25
10	64QAM	25	0	22.15	22.09	22.06
10	64QAM	25	12	22.20	22.23	22.15
10	64QAM	25	25	22.25	22.22	22.22
10	64QAM	50	0	22.17	22.10	22.21



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	23.15	23.48	23.26
5	QPSK	1	12	23.31	23.47	23.31
5	QPSK	1	24	23.27	23.46	23.32
5	QPSK	12	0	22.38	22.45	22.44
5	QPSK	12	7	22.49	22.51	22.48
5	QPSK	12	13	22.44	22.47	22.44
5	QPSK	25	0	22.40	22.52	22.48
5	16QAM	1	0	22.41	22.43	22.45
5	16QAM	1	12	22.58	22.53	22.54
5	16QAM	1	24	22.54	22.52	22.48
5	16QAM	12	0	22.28	22.25	22.28
5	16QAM	12	7	22.42	22.47	22.31
5	16QAM	12	13	22.37	22.34	22.39
5	16QAM	25	0	22.38	22.34	22.36
5	64QAM	1	0	22.16	22.17	22.22
5	64QAM	1	12	22.61	22.31	22.24
5	64QAM	1	24	22.59	22.28	22.33
5	64QAM	12	0	22.13	22.15	22.10
5	64QAM	12	7	22.23	22.11	22.17
5	64QAM	12	13	22.10	22.20	22.25
5	64QAM	25	0	22.25	22.21	22.18





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	23.23	23.50	23.17
3	QPSK	1	8	23.41	23.40	23.30
3	QPSK	1	14	23.35	23.46	23.41
3	QPSK	8	0	22.46	22.44	22.44
3	QPSK	8	4	22.49	22.52	22.53
3	QPSK	8	7	22.44	22.52	22.46
3	QPSK	15	0	22.43	22.51	22.37
3	16QAM	1	0	22.44	22.80	22.39
3	16QAM	1	8	22.64	22.62	22.57
3	16QAM	1	14	22.47	22.52	22.38
3	16QAM	8	0	22.44	22.33	22.36
3	16QAM	8	4	22.49	22.46	22.57
3	16QAM	8	7	22.33	22.36	22.42
3	16QAM	15	0	22.31	22.24	22.23
3	64QAM	1	0	22.17	22.51	22.50
3	64QAM	1	8	22.46	22.36	22.37
3	64QAM	1	14	22.39	22.24	22.35
3	64QAM	8	0	22.06	22.14	22.05
3	64QAM	8	4	22.15	22.19	22.18
3	64QAM	8	7	22.14	22.06	22.21
3	64QAM	15	0	22.13	22.15	22.07



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	23.26	23.43	23.23
1.4	QPSK	1	3	23.37	23.36	23.38
1.4	QPSK	1	5	23.26	23.31	23.27
1.4	QPSK	3	0	23.21	23.34	23.32
1.4	QPSK	3	1	23.42	23.42	23.09
1.4	QPSK	3	3	23.37	23.39	23.35
1.4	QPSK	6	0	22.43	22.40	22.38
1.4	16QAM	1	0	22.47	22.41	22.26
1.4	16QAM	1	3	22.28	22.71	22.38
1.4	16QAM	1	5	22.40	22.41	22.40
1.4	16QAM	3	0	22.24	22.27	22.28
1.4	16QAM	3	1	22.40	22.48	22.32
1.4	16QAM	3	3	22.23	22.37	22.37
1.4	16QAM	6	0	22.16	22.36	22.26
1.4	64QAM	1	0	22.01	22.16	22.00
1.4	64QAM	1	3	22.13	22.06	22.11
1.4	64QAM	1	5	22.29	22.32	22.28
1.4	64QAM	3	0	22.19	22.20	22.03
1.4	64QAM	3	1	22.17	22.41	22.26
1.4	64QAM	3	3	22.19	22.03	22.19
1.4	64QAM	6	0	22.15	22.16	22.03



LTE Band 13						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	23230	/
Frequency (MHz)				/	782	/
10	QPSK	1	0	/	23.55	/
10	QPSK	1	25	/	23.47	/
10	QPSK	1	49	/	23.52	/
10	QPSK	25	0	/	22.64	/
10	QPSK	25	12	/	22.45	/
10	QPSK	25	25	/	22.39	/
10	QPSK	50	0	/	22.42	/
10	16QAM	1	0	/	22.54	/
10	16QAM	1	25	/	22.46	/
10	16QAM	1	49	/	22.76	/
10	16QAM	25	0	/	22.57	/
10	16QAM	25	12	/	22.52	/
10	16QAM	25	25	/	22.65	/
10	16QAM	50	0	/	22.42	/
10	64QAM	1	0	/	22.72	/
10	64QAM	1	25	/	22.54	/
10	64QAM	1	49	/	22.51	/
10	64QAM	25	0	/	22.44	/
10	64QAM	25	12	/	22.37	/
10	64QAM	25	25	/	22.43	/
10	64QAM	50	0	/	22.50	/



LTE Band 13						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23205	23230	23255
Frequency (MHz)				779.5	782	784.5
5	QPSK	1	0	23.44	23.47	23.45
5	QPSK	1	12	23.44	23.46	23.42
5	QPSK	1	24	23.43	23.41	23.34
5	QPSK	12	0	22.35	22.43	22.52
5	QPSK	12	7	22.42	22.41	22.50
5	QPSK	12	13	22.34	22.50	22.48
5	QPSK	25	0	22.41	22.38	22.48
5	16QAM	1	0	22.06	22.42	22.21
5	16QAM	1	12	22.12	22.27	22.15
5	16QAM	1	24	22.22	22.04	22.05
5	16QAM	12	0	22.65	22.62	22.55
5	16QAM	12	7	22.66	22.55	22.67
5	16QAM	12	13	22.63	22.62	22.66
5	16QAM	25	0	22.42	22.46	22.48
5	64QAM	1	0	22.68	22.66	22.58
5	64QAM	1	12	22.64	22.54	22.67
5	64QAM	1	24	22.65	22.64	22.64
5	64QAM	12	0	22.47	22.53	22.60
5	64QAM	12	7	22.64	22.43	22.53
5	64QAM	12	13	22.43	22.54	22.44
5	64QAM	25	0	22.34	22.45	22.45



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	23.44	23.47	23.44
10	QPSK	1	25	23.32	23.28	23.34
10	QPSK	1	49	23.25	23.28	23.23
10	QPSK	25	0	22.55	22.61	22.53
10	QPSK	25	12	22.40	22.34	22.48
10	QPSK	25	25	22.38	22.38	22.47
10	QPSK	50	0	22.51	22.38	22.39
10	16QAM	1	0	22.24	22.43	22.57
10	16QAM	1	25	22.45	22.74	22.58
10	16QAM	1	49	22.41	22.66	22.71
10	16QAM	25	0	22.35	22.59	22.58
10	16QAM	25	12	22.41	22.56	22.54
10	16QAM	25	25	22.24	22.50	22.55
10	16QAM	50	0	22.28	22.57	22.54
10	64QAM	1	0	22.25	22.58	22.26
10	64QAM	1	25	22.48	22.38	22.28
10	64QAM	1	49	22.22	22.25	22.25
10	64QAM	25	0	22.40	22.57	22.55
10	64QAM	25	12	22.32	22.40	22.57
10	64QAM	25	25	22.26	22.47	22.63
10	64QAM	50	0	22.33	22.56	22.57



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	23.38	23.34	23.30
5	QPSK	1	12	23.37	23.33	23.32
5	QPSK	1	24	23.29	23.35	23.34
5	QPSK	12	0	22.45	22.63	22.52
5	QPSK	12	7	22.57	22.66	22.22
5	QPSK	12	13	22.36	22.24	22.30
5	QPSK	25	0	22.36	22.16	22.29
5	16QAM	1	0	22.47	22.52	22.24
5	16QAM	1	12	22.64	22.20	22.57
5	16QAM	1	24	22.48	22.53	22.69
5	16QAM	12	0	22.36	22.39	22.60
5	16QAM	12	7	22.36	22.43	22.55
5	16QAM	12	13	22.27	22.52	22.55
5	16QAM	25	0	22.37	22.49	22.53
5	64QAM	1	0	22.17	22.18	22.18
5	64QAM	1	12	22.21	22.18	22.26
5	64QAM	1	24	22.26	22.26	22.18
5	64QAM	12	0	22.32	22.37	22.61
5	64QAM	12	7	22.45	22.53	22.47
5	64QAM	12	13	22.30	22.48	22.50
5	64QAM	25	0	22.27	22.46	22.62



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37850	38000	38150
Frequency (MHz)				2580	2595	2610
20	QPSK	1	0	23.36	23.38	23.31
20	QPSK	1	49	23.31	23.31	23.32
20	QPSK	1	99	23.32	23.27	23.37
20	QPSK	50	0	22.47	22.48	22.46
20	QPSK	50	24	22.32	22.25	22.22
20	QPSK	50	50	22.46	22.26	22.25
20	QPSK	100	0	22.25	22.32	22.26
20	16QAM	1	0	22.42	22.25	22.32
20	16QAM	1	49	22.30	22.25	22.20
20	16QAM	1	99	22.22	22.32	22.30
20	16QAM	50	0	22.32	22.25	22.55
20	16QAM	50	24	22.53	22.22	22.32
20	16QAM	50	50	22.59	22.68	22.29
20	16QAM	100	0	22.52	22.67	22.36
20	64QAM	1	0	22.27	22.47	22.30
20	64QAM	1	49	22.39	22.29	22.58
20	64QAM	1	99	22.34	22.25	22.34
20	64QAM	50	0	22.31	22.28	22.23
20	64QAM	50	24	22.47	22.35	22.32
20	64QAM	50	50	22.46	22.49	22.38
20	64QAM	100	0	22.56	22.52	22.20



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	23.08	23.28	23.15
15	QPSK	1	37	23.26	23.32	23.15
15	QPSK	1	74	23.24	23.25	23.08
15	QPSK	36	0	22.42	22.27	22.47
15	QPSK	36	20	22.47	22.23	22.43
15	QPSK	36	39	22.50	22.22	22.46
15	QPSK	75	0	22.52	22.25	22.49
15	16QAM	1	0	22.33	22.62	22.27
15	16QAM	1	37	22.50	22.19	22.33
15	16QAM	1	74	22.42	22.26	22.17
15	16QAM	36	0	22.49	22.16	22.36
15	16QAM	36	20	22.43	22.12	22.32
15	16QAM	36	39	22.56	22.66	22.36
15	16QAM	75	0	22.57	22.14	22.36
15	64QAM	1	0	22.28	22.52	22.16
15	64QAM	1	37	22.42	22.66	22.29
15	64QAM	1	74	22.35	22.45	22.63
15	64QAM	36	0	22.41	22.23	22.37
15	64QAM	36	20	22.52	22.67	22.30
15	64QAM	36	39	22.51	22.64	22.36
15	64QAM	75	0	22.52	22.64	22.40





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	23.17	23.25	23.13
10	QPSK	1	25	23.22	23.12	23.08
10	QPSK	1	49	23.09	23.32	23.32
10	QPSK	25	0	22.47	22.35	22.31
10	QPSK	25	12	22.46	22.24	22.31
10	QPSK	25	25	22.55	22.19	22.35
10	QPSK	50	0	22.59	22.27	22.33
10	16QAM	1	0	21.94	22.09	22.34
10	16QAM	1	25	22.03	22.24	22.17
10	16QAM	1	49	21.99	22.16	22.30
10	16QAM	25	0	22.02	22.30	22.48
10	16QAM	25	12	21.99	22.16	22.42
10	16QAM	25	25	22.06	22.28	22.55
10	16QAM	50	0	22.02	22.26	22.44
10	64QAM	1	0	22.37	21.97	22.31
10	64QAM	1	25	22.49	22.14	22.36
10	64QAM	1	49	22.38	22.01	22.27
10	64QAM	25	0	22.52	22.22	22.40
10	64QAM	25	12	22.49	22.11	22.40
10	64QAM	25	25	22.53	22.20	22.37
10	64QAM	50	0	22.50	22.25	22.46



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	23.02	23.25	23.22
5	QPSK	1	12	23.17	23.12	23.25
5	QPSK	1	24	23.08	23.22	22.95
5	QPSK	12	0	22.40	22.44	22.53
5	QPSK	12	7	22.53	22.29	22.59
5	QPSK	12	13	22.53	22.51	22.65
5	QPSK	25	0	22.54	22.52	22.67
5	16QAM	1	0	22.37	22.53	22.22
5	16QAM	1	12	22.54	22.70	22.38
5	16QAM	1	24	22.40	22.51	22.23
5	16QAM	12	0	22.17	22.17	22.35
5	16QAM	12	7	22.12	22.27	22.46
5	16QAM	12	13	22.25	22.17	22.39
5	16QAM	25	0	22.13	22.25	22.46
5	64QAM	1	0	22.44	22.49	22.24
5	64QAM	1	12	22.65	22.62	22.33
5	64QAM	1	24	22.50	22.55	22.19
5	64QAM	12	0	22.68	22.15	22.27
5	64QAM	12	7	22.16	22.23	22.45
5	64QAM	12	13	22.15	22.02	22.33
5	64QAM	25	0	22.15	22.08	22.42



**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	23.55	0.226	23.58	0.228	23.52	0.225
20	QPSK	1	49	23.53	0.225	23.47	0.222	23.40	0.219
20	QPSK	1	99	23.47	0.222	23.43	0.220	23.41	0.219
20	QPSK	50	0	22.63	0.183	22.72	0.187	22.65	0.184
20	QPSK	50	24	22.64	0.184	22.69	0.186	22.69	0.186
20	QPSK	50	50	22.69	0.186	22.65	0.184	22.71	0.187
20	QPSK	100	0	22.62	0.183	22.71	0.187	22.67	0.185
20	16QAM	1	0	22.68	0.185	22.68	0.185	22.70	0.186
20	16QAM	1	49	22.52	0.179	22.82	0.191	22.78	0.190
20	16QAM	1	99	22.77	0.189	22.62	0.183	23.02	0.200
20	16QAM	50	0	22.70	0.186	22.67	0.185	22.65	0.184
20	16QAM	50	24	22.66	0.185	22.71	0.187	22.72	0.187
20	16QAM	50	50	22.74	0.188	22.71	0.187	22.78	0.190
20	16QAM	100	0	22.77	0.189	22.78	0.190	22.65	0.184
20	64QAM	1	0	22.72	0.187	22.91	0.195	22.65	0.184
20	64QAM	1	49	22.67	0.185	22.85	0.193	22.76	0.189
20	64QAM	1	99	22.62	0.183	22.95	0.197	22.95	0.197
20	64QAM	50	0	22.72	0.187	22.64	0.184	22.69	0.186
20	64QAM	50	24	22.75	0.188	22.69	0.186	22.74	0.188
20	64QAM	50	50	22.74	0.188	22.75	0.188	22.69	0.186
20	64QAM	100	0	22.62	0.183	22.59	0.182	22.60	0.182



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18675		18900		19125	
Frequency (MHz)				1857.5		1880		1902.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	23.36	0.217	23.39	0.218	23.30	0.214
15	QPSK	1	37	23.15	0.207	23.51	0.224	23.39	0.218
15	QPSK	1	74	23.52	0.225	23.44	0.221	23.52	0.225
15	QPSK	36	0	22.49	0.177	22.58	0.181	22.57	0.181
15	QPSK	36	20	22.48	0.177	22.67	0.185	22.64	0.184
15	QPSK	36	39	22.60	0.182	22.61	0.182	22.58	0.181
15	QPSK	75	0	22.52	0.179	22.58	0.181	22.54	0.179
15	16QAM	1	0	22.61	0.182	22.69	0.186	22.63	0.183
15	16QAM	1	37	22.74	0.188	22.77	0.189	22.63	0.183
15	16QAM	1	74	22.69	0.186	22.81	0.191	22.81	0.191
15	16QAM	36	0	22.48	0.177	22.53	0.179	22.56	0.180
15	16QAM	36	20	22.57	0.181	22.50	0.178	22.63	0.183
15	16QAM	36	39	22.62	0.183	22.71	0.187	22.68	0.185
15	16QAM	75	0	22.49	0.177	22.51	0.178	22.60	0.182
15	64QAM	1	0	22.69	0.186	22.45	0.176	22.51	0.178
15	64QAM	1	37	22.68	0.185	22.49	0.177	22.91	0.195
15	64QAM	1	74	22.57	0.181	22.61	0.182	22.76	0.189
15	64QAM	36	0	22.42	0.175	22.59	0.182	22.47	0.177
15	64QAM	36	20	22.62	0.183	22.64	0.184	22.54	0.179
15	64QAM	36	39	22.50	0.178	22.55	0.180	22.64	0.184
15	64QAM	75	0	22.49	0.177	22.56	0.180	22.55	0.180



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	23.33	0.215	23.32	0.215	23.42	0.220
10	QPSK	1	25	23.44	0.221	23.54	0.226	23.42	0.220
10	QPSK	1	49	23.33	0.215	23.41	0.219	23.33	0.215
10	QPSK	25	0	22.60	0.182	22.61	0.182	22.57	0.181
10	QPSK	25	12	22.56	0.180	22.68	0.185	22.61	0.182
10	QPSK	25	25	22.47	0.177	22.60	0.182	22.56	0.180
10	QPSK	50	0	22.53	0.179	22.62	0.183	22.60	0.182
10	16QAM	1	0	23.01	0.200	22.94	0.197	22.93	0.196
10	16QAM	1	25	22.70	0.186	22.66	0.185	22.73	0.187
10	16QAM	1	49	22.65	0.184	22.73	0.187	22.52	0.179
10	16QAM	25	0	22.55	0.180	22.54	0.179	22.51	0.178
10	16QAM	25	12	22.71	0.187	22.51	0.178	22.51	0.178
10	16QAM	25	25	22.51	0.178	22.71	0.187	22.81	0.191
10	16QAM	50	0	23.08	0.203	23.01	0.200	23.05	0.202
10	64QAM	1	0	22.59	0.182	22.64	0.184	22.64	0.184
10	64QAM	1	25	22.62	0.183	22.67	0.185	22.71	0.187
10	64QAM	1	49	22.29	0.169	22.42	0.175	22.39	0.173
10	64QAM	25	0	22.59	0.182	22.63	0.183	22.64	0.184
10	64QAM	25	12	22.62	0.183	22.60	0.182	22.61	0.182
10	64QAM	25	25	22.55	0.180	22.33	0.171	22.55	0.180
10	64QAM	50	0	22.56	0.180	22.56	0.180	22.53	0.179



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	23.47	0.222	23.52	0.225	23.46	0.222
5	QPSK	1	12	23.46	0.222	23.41	0.219	23.44	0.221
5	QPSK	1	24	23.42	0.220	23.50	0.224	23.51	0.224
5	QPSK	12	0	22.59	0.182	22.50	0.178	22.57	0.181
5	QPSK	12	7	22.60	0.182	22.65	0.184	22.57	0.181
5	QPSK	12	13	22.59	0.182	22.58	0.181	22.61	0.182
5	QPSK	25	0	22.58	0.181	22.56	0.180	22.58	0.181
5	16QAM	1	0	22.71	0.187	22.61	0.182	22.99	0.199
5	16QAM	1	12	22.69	0.186	22.62	0.183	22.99	0.199
5	16QAM	1	24	22.72	0.187	22.59	0.182	22.98	0.199
5	16QAM	12	0	22.81	0.191	22.95	0.197	22.81	0.191
5	16QAM	12	7	22.71	0.187	22.71	0.187	22.51	0.178
5	16QAM	12	13	22.51	0.178	22.84	0.192	22.61	0.182
5	16QAM	25	0	22.61	0.182	23.07	0.203	23.05	0.202
5	64QAM	1	0	22.81	0.191	22.53	0.179	22.58	0.181
5	64QAM	1	12	22.97	0.198	22.63	0.183	22.74	0.188
5	64QAM	1	24	22.98	0.199	22.62	0.183	22.64	0.184
5	64QAM	12	0	22.63	0.183	22.56	0.180	22.55	0.180
5	64QAM	12	7	22.69	0.186	22.53	0.179	22.53	0.179
5	64QAM	12	13	22.66	0.185	22.62	0.183	22.60	0.182
5	64QAM	25	0	22.73	0.187	22.53	0.179	22.60	0.182



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18615		18900		19185	
Frequency (MHz)				1851.5		1880		1908.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	23.41	0.219	23.48	0.223	23.40	0.219
3	QPSK	1	8	23.51	0.224	23.54	0.226	23.37	0.217
3	QPSK	1	14	23.52	0.225	23.39	0.218	23.39	0.218
3	QPSK	8	0	22.47	0.177	22.42	0.175	22.44	0.175
3	QPSK	8	4	22.53	0.179	22.47	0.177	22.48	0.177
3	QPSK	8	7	22.53	0.179	22.47	0.177	22.43	0.175
3	QPSK	15	0	22.45	0.176	22.53	0.179	22.46	0.176
3	16QAM	1	0	22.61	0.182	22.52	0.179	22.46	0.176
3	16QAM	1	8	22.65	0.184	22.59	0.182	22.55	0.180
3	16QAM	1	14	22.58	0.181	22.55	0.180	22.43	0.175
3	16QAM	8	0	23.01	0.200	23.14	0.206	23.06	0.202
3	16QAM	8	4	23.08	0.203	23.05	0.202	23.11	0.205
3	16QAM	8	7	22.98	0.199	23.03	0.201	23.06	0.202
3	16QAM	15	0	23.01	0.200	23.05	0.202	23.00	0.200
3	64QAM	1	0	22.54	0.179	22.47	0.177	22.50	0.178
3	64QAM	1	8	22.96	0.198	22.95	0.197	22.55	0.180
3	64QAM	1	14	22.57	0.181	22.93	0.196	22.57	0.181
3	64QAM	8	0	22.49	0.177	22.51	0.178	22.35	0.172
3	64QAM	8	4	22.59	0.182	22.49	0.177	22.49	0.177
3	64QAM	8	7	22.69	0.186	22.58	0.181	22.44	0.175
3	64QAM	15	0	22.54	0.179	22.54	0.179	22.52	0.179



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	23.47	0.222	23.50	0.224	23.45	0.221
1.4	QPSK	1	3	23.37	0.217	23.35	0.216	23.34	0.216
1.4	QPSK	1	5	23.34	0.216	23.32	0.215	23.30	0.214
1.4	QPSK	3	0	23.34	0.216	23.34	0.216	23.30	0.214
1.4	QPSK	3	1	23.38	0.218	23.35	0.216	23.33	0.215
1.4	QPSK	3	3	23.40	0.219	23.44	0.221	23.33	0.215
1.4	QPSK	6	0	22.43	0.175	22.41	0.174	22.40	0.174
1.4	16QAM	1	0	22.46	0.176	22.46	0.176	22.40	0.174
1.4	16QAM	1	3	22.42	0.175	22.62	0.183	22.60	0.182
1.4	16QAM	1	5	22.30	0.170	22.50	0.178	22.18	0.165
1.4	16QAM	3	0	22.32	0.171	22.37	0.173	22.34	0.171
1.4	16QAM	3	1	22.50	0.178	22.32	0.171	22.37	0.173
1.4	16QAM	3	3	22.52	0.179	22.49	0.177	22.23	0.167
1.4	16QAM	6	0	22.53	0.179	22.46	0.176	22.41	0.174
1.4	64QAM	1	0	22.41	0.174	22.33	0.171	22.36	0.172
1.4	64QAM	1	3	22.43	0.175	22.64	0.184	22.52	0.179
1.4	64QAM	1	5	22.41	0.174	22.76	0.189	22.35	0.172
1.4	64QAM	3	0	22.44	0.175	22.50	0.178	22.51	0.178
1.4	64QAM	3	1	22.53	0.179	22.50	0.178	22.71	0.187
1.4	64QAM	3	3	22.45	0.176	22.59	0.182	22.36	0.172
1.4	64QAM	6	0	22.50	0.178	22.53	0.179	22.42	0.175





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	24.77	0.300	24.85	0.305	24.84	0.305
20	QPSK	1	49	24.63	0.290	24.71	0.296	24.70	0.295
20	QPSK	1	99	24.55	0.285	24.68	0.294	24.80	0.302
20	QPSK	50	0	23.84	0.242	23.97	0.249	23.94	0.248
20	QPSK	50	24	23.84	0.242	23.92	0.247	23.92	0.247
20	QPSK	50	50	23.73	0.236	23.84	0.242	23.85	0.243
20	QPSK	100	0	23.83	0.242	23.87	0.244	23.94	0.248
20	16QAM	1	0	23.70	0.234	24.00	0.251	23.87	0.244
20	16QAM	1	49	23.85	0.243	23.62	0.230	23.76	0.238
20	16QAM	1	99	23.64	0.231	23.86	0.243	23.70	0.234
20	16QAM	50	0	23.83	0.242	23.76	0.238	23.90	0.245
20	16QAM	50	24	24.09	0.256	24.20	0.263	24.09	0.256
20	16QAM	50	50	24.05	0.254	24.06	0.255	24.06	0.255
20	16QAM	100	0	24.07	0.255	24.15	0.260	24.16	0.261
20	64QAM	1	0	23.81	0.240	23.92	0.247	24.14	0.259
20	64QAM	1	49	23.85	0.243	23.78	0.239	23.66	0.232
20	64QAM	1	99	24.12	0.258	23.69	0.234	24.16	0.261
20	64QAM	50	0	23.82	0.241	23.91	0.246	23.86	0.243
20	64QAM	50	24	23.84	0.242	23.95	0.248	23.89	0.245
20	64QAM	50	50	23.88	0.244	23.83	0.242	23.85	0.243
20	64QAM	100	0	23.91	0.246	23.89	0.245	23.98	0.250



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	24.64	0.291	24.68	0.294	24.78	0.301
15	QPSK	1	37	24.68	0.294	24.77	0.300	24.69	0.294
15	QPSK	1	74	24.55	0.285	24.77	0.300	24.80	0.302
15	QPSK	36	0	23.78	0.239	23.85	0.243	23.88	0.244
15	QPSK	36	20	23.82	0.241	23.95	0.248	23.91	0.246
15	QPSK	36	39	23.87	0.244	23.86	0.243	23.95	0.248
15	QPSK	75	0	23.82	0.241	23.84	0.242	23.85	0.243
15	16QAM	1	0	23.76	0.238	23.98	0.250	23.70	0.234
15	16QAM	1	37	23.84	0.242	23.84	0.242	23.68	0.233
15	16QAM	1	74	23.70	0.234	24.00	0.251	23.79	0.239
15	16QAM	36	0	23.71	0.235	23.73	0.236	23.92	0.247
15	16QAM	36	20	23.66	0.232	23.73	0.236	23.79	0.239
15	16QAM	36	39	23.62	0.230	23.71	0.235	23.77	0.238
15	16QAM	75	0	23.73	0.236	23.74	0.237	23.83	0.242
15	64QAM	1	0	23.68	0.233	23.99	0.251	24.04	0.254
15	64QAM	1	37	24.10	0.257	23.86	0.243	23.92	0.247
15	64QAM	1	74	24.14	0.259	23.85	0.243	23.89	0.245
15	64QAM	36	0	23.79	0.239	23.86	0.243	23.90	0.245
15	64QAM	36	20	23.85	0.243	23.87	0.244	23.89	0.245
15	64QAM	36	39	23.88	0.244	23.84	0.242	23.86	0.243
15	64QAM	75	0	23.81	0.240	23.92	0.247	23.85	0.243



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	24.56	0.286	24.75	0.299	24.58	0.287
10	QPSK	1	25	24.54	0.284	24.67	0.293	24.68	0.294
10	QPSK	1	49	24.62	0.290	24.45	0.279	24.68	0.294
10	QPSK	25	0	23.61	0.230	23.83	0.242	23.85	0.243
10	QPSK	25	12	23.73	0.236	23.79	0.239	23.83	0.242
10	QPSK	25	25	23.62	0.230	23.73	0.236	23.80	0.240
10	QPSK	50	0	23.68	0.233	23.78	0.239	23.70	0.234
10	16QAM	1	0	23.67	0.233	23.82	0.241	23.58	0.228
10	16QAM	1	25	23.94	0.248	23.68	0.233	24.00	0.251
10	16QAM	1	49	24.01	0.252	23.91	0.246	23.90	0.245
10	16QAM	25	0	23.67	0.233	23.66	0.232	23.65	0.232
10	16QAM	25	12	23.59	0.229	23.69	0.234	23.66	0.232
10	16QAM	25	25	23.93	0.247	23.84	0.242	23.93	0.247
10	16QAM	50	0	23.87	0.244	23.91	0.246	24.03	0.253
10	64QAM	1	0	23.73	0.236	23.81	0.240	23.71	0.235
10	64QAM	1	25	23.80	0.240	24.09	0.256	24.18	0.262
10	64QAM	1	49	23.78	0.239	23.82	0.241	23.77	0.238
10	64QAM	25	0	23.62	0.230	23.76	0.238	23.75	0.237
10	64QAM	25	12	23.71	0.235	23.82	0.241	23.86	0.243
10	64QAM	25	25	23.59	0.229	23.71	0.235	23.73	0.236
10	64QAM	50	0	23.65	0.232	23.72	0.236	23.71	0.235



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	24.46	0.279	24.68	0.294	24.73	0.297
5	QPSK	1	12	24.52	0.283	24.67	0.293	24.64	0.291
5	QPSK	1	24	24.47	0.280	24.59	0.288	24.58	0.287
5	QPSK	12	0	23.69	0.234	23.69	0.234	23.73	0.236
5	QPSK	12	7	23.69	0.234	23.80	0.240	23.77	0.238
5	QPSK	12	13	23.64	0.231	23.81	0.240	23.73	0.236
5	QPSK	25	0	23.67	0.233	23.71	0.235	23.77	0.238
5	16QAM	1	0	23.57	0.228	23.98	0.250	23.66	0.232
5	16QAM	1	12	23.68	0.233	24.03	0.253	23.62	0.230
5	16QAM	1	24	23.62	0.230	23.97	0.249	23.57	0.228
5	16QAM	12	0	23.61	0.230	23.55	0.226	23.58	0.228
5	16QAM	12	7	23.64	0.231	23.68	0.233	23.66	0.232
5	16QAM	12	13	23.91	0.246	23.98	0.250	24.02	0.252
5	16QAM	25	0	23.92	0.247	24.03	0.253	23.96	0.249
5	64QAM	1	0	23.69	0.234	24.13	0.259	24.11	0.258
5	64QAM	1	12	24.07	0.255	23.83	0.242	24.10	0.257
5	64QAM	1	24	24.03	0.253	23.73	0.236	23.80	0.240
5	64QAM	12	0	23.70	0.234	23.77	0.238	23.79	0.239
5	64QAM	12	7	23.69	0.234	23.78	0.239	23.84	0.242
5	64QAM	12	13	23.70	0.234	23.76	0.238	23.75	0.237
5	64QAM	25	0	23.65	0.232	23.79	0.239	23.70	0.234



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	24.58	0.287	24.59	0.288	24.71	0.296
3	QPSK	1	8	24.67	0.293	24.81	0.303	24.75	0.299
3	QPSK	1	14	24.47	0.280	24.66	0.292	24.66	0.292
3	QPSK	8	0	23.67	0.233	23.73	0.236	23.74	0.237
3	QPSK	8	4	23.73	0.236	23.81	0.240	23.83	0.242
3	QPSK	8	7	23.69	0.234	23.79	0.239	23.79	0.239
3	QPSK	15	0	23.69	0.234	23.75	0.237	23.69	0.234
3	16QAM	1	0	23.77	0.238	23.86	0.243	23.90	0.245
3	16QAM	1	8	23.99	0.251	23.99	0.251	23.73	0.236
3	16QAM	1	14	23.90	0.245	23.68	0.233	23.76	0.238
3	16QAM	8	0	23.69	0.234	23.70	0.234	23.79	0.239
3	16QAM	8	4	23.79	0.239	23.79	0.239	23.80	0.240
3	16QAM	8	7	24.01	0.252	24.09	0.256	24.13	0.259
3	16QAM	15	0	24.01	0.252	23.99	0.251	24.06	0.255
3	64QAM	1	0	23.68	0.233	23.77	0.238	23.75	0.237
3	64QAM	1	8	23.87	0.244	23.75	0.237	23.91	0.246
3	64QAM	1	14	23.68	0.233	23.75	0.237	23.58	0.228
3	64QAM	8	0	23.66	0.232	23.70	0.234	23.64	0.231
3	64QAM	8	4	23.78	0.239	23.76	0.238	23.80	0.240
3	64QAM	8	7	23.72	0.236	23.79	0.239	23.91	0.246
3	64QAM	15	0	23.68	0.233	23.76	0.238	23.67	0.233



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	24.33	0.271	24.54	0.284	24.55	0.285
1.4	QPSK	1	3	24.67	0.293	24.67	0.293	24.71	0.296
1.4	QPSK	1	5	24.53	0.284	24.62	0.290	24.64	0.291
1.4	QPSK	3	0	24.61	0.289	24.58	0.287	24.57	0.286
1.4	QPSK	3	1	24.57	0.286	24.67	0.293	24.72	0.296
1.4	QPSK	3	3	24.56	0.286	24.63	0.290	24.62	0.290
1.4	QPSK	6	0	23.72	0.236	23.74	0.237	23.70	0.234
1.4	16QAM	1	0	23.66	0.232	24.13	0.259	23.79	0.239
1.4	16QAM	1	3	23.79	0.239	23.87	0.244	23.91	0.246
1.4	16QAM	1	5	23.85	0.243	24.01	0.252	23.81	0.240
1.4	16QAM	3	0	23.88	0.244	23.92	0.247	23.83	0.242
1.4	16QAM	3	1	23.89	0.245	23.92	0.247	23.94	0.248
1.4	16QAM	3	3	23.88	0.244	24.00	0.251	23.89	0.245
1.4	16QAM	6	0	23.79	0.239	23.80	0.240	23.71	0.235
1.4	64QAM	1	0	23.57	0.228	23.51	0.224	23.65	0.232
1.4	64QAM	1	3	23.83	0.242	23.81	0.240	23.93	0.247
1.4	64QAM	1	5	23.74	0.237	23.70	0.234	23.54	0.226
1.4	64QAM	3	0	23.65	0.232	23.63	0.231	23.82	0.241
1.4	64QAM	3	1	23.56	0.227	23.71	0.235	23.68	0.233
1.4	64QAM	3	3	23.62	0.230	23.79	0.239	23.67	0.233
1.4	64QAM	6	0	23.61	0.230	23.62	0.230	23.69	0.234



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	19.28	0.085	19.29	0.085	19.21	0.083
10	QPSK	1	25	19.14	0.082	19.17	0.083	18.97	0.079
10	QPSK	1	49	19.06	0.081	19.18	0.083	18.86	0.077
10	QPSK	25	0	18.38	0.069	18.40	0.069	18.21	0.066
10	QPSK	25	12	18.14	0.065	18.16	0.065	18.21	0.066
10	QPSK	25	25	18.14	0.065	18.25	0.067	18.30	0.068
10	QPSK	50	0	18.20	0.066	18.08	0.064	18.22	0.066
10	16QAM	1	0	18.24	0.067	18.43	0.070	18.14	0.065
10	16QAM	1	25	18.26	0.067	18.29	0.067	17.97	0.063
10	16QAM	1	49	18.09	0.064	18.15	0.065	18.22	0.066
10	16QAM	25	0	18.18	0.066	18.19	0.066	18.01	0.063
10	16QAM	25	12	18.12	0.065	18.20	0.066	17.98	0.063
10	16QAM	25	25	18.15	0.065	18.08	0.064	18.11	0.065
10	16QAM	50	0	18.16	0.065	18.07	0.064	17.97	0.063
10	64QAM	1	0	18.12	0.065	18.22	0.066	18.10	0.065
10	64QAM	1	25	18.09	0.064	18.29	0.067	18.09	0.064
10	64QAM	1	49	17.98	0.063	18.20	0.066	18.11	0.065
10	64QAM	25	0	18.09	0.064	18.20	0.066	17.87	0.061
10	64QAM	25	12	18.08	0.064	18.25	0.067	17.96	0.063
10	64QAM	25	25	18.20	0.066	18.09	0.064	17.79	0.060
10	64QAM	50	0	18.16	0.065	18.12	0.065	17.98	0.063



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	19.23	0.084	19.19	0.083	19.17	0.083
5	QPSK	1	12	19.13	0.082	19.24	0.084	19.08	0.081
5	QPSK	1	24	19.13	0.082	19.08	0.081	19.08	0.081
5	QPSK	12	0	18.08	0.064	18.13	0.065	17.99	0.063
5	QPSK	12	7	18.15	0.065	18.16	0.065	18.08	0.064
5	QPSK	12	13	18.20	0.066	18.04	0.064	17.99	0.063
5	QPSK	25	0	18.11	0.065	18.07	0.064	17.99	0.063
5	16QAM	1	0	18.40	0.069	18.33	0.068	18.09	0.064
5	16QAM	1	12	18.10	0.065	18.32	0.068	18.08	0.064
5	16QAM	1	24	17.97	0.063	18.32	0.068	18.15	0.065
5	16QAM	12	0	18.06	0.064	18.15	0.065	18.14	0.065
5	16QAM	12	7	18.13	0.065	18.16	0.065	17.98	0.063
5	16QAM	12	13	18.13	0.065	18.04	0.064	18.09	0.064
5	16QAM	25	0	18.14	0.065	18.19	0.066	18.14	0.065
5	64QAM	1	0	18.21	0.066	18.09	0.064	18.20	0.066
5	64QAM	1	12	18.09	0.064	18.03	0.064	18.17	0.066
5	64QAM	1	24	18.23	0.067	18.07	0.064	18.01	0.063
5	64QAM	12	0	17.95	0.062	18.09	0.064	17.89	0.062
5	64QAM	12	7	17.99	0.063	18.15	0.065	17.93	0.062
5	64QAM	12	13	18.17	0.066	18.12	0.065	17.69	0.059
5	64QAM	25	0	18.05	0.064	18.12	0.065	17.73	0.059





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	18.92	0.078	19.23	0.084	19.08	0.081
3	QPSK	1	8	19.18	0.083	19.19	0.083	19.10	0.081
3	QPSK	1	14	19.19	0.083	19.17	0.083	18.91	0.078
3	QPSK	8	0	18.22	0.066	18.35	0.068	18.33	0.068
3	QPSK	8	4	18.36	0.069	18.42	0.070	18.39	0.069
3	QPSK	8	7	18.31	0.068	18.33	0.068	18.20	0.066
3	QPSK	15	0	18.29	0.067	18.35	0.068	18.34	0.068
3	16QAM	1	0	18.31	0.068	18.42	0.070	18.49	0.071
3	16QAM	1	8	18.24	0.067	18.50	0.071	18.34	0.068
3	16QAM	1	14	18.29	0.067	18.55	0.072	18.30	0.068
3	16QAM	8	0	18.25	0.067	18.34	0.068	18.08	0.064
3	16QAM	8	4	18.41	0.069	18.52	0.071	18.09	0.064
3	16QAM	8	7	18.33	0.068	18.39	0.069	18.13	0.065
3	16QAM	15	0	18.27	0.067	18.29	0.067	17.84	0.061
3	64QAM	1	0	18.22	0.066	18.10	0.065	18.31	0.068
3	64QAM	1	8	18.10	0.065	18.34	0.068	18.10	0.065
3	64QAM	1	14	18.12	0.065	18.30	0.068	18.11	0.065
3	64QAM	8	0	18.22	0.066	18.32	0.068	18.30	0.068
3	64QAM	8	4	18.44	0.070	18.28	0.067	18.22	0.066
3	64QAM	8	7	18.39	0.069	18.31	0.068	18.28	0.067
3	64QAM	15	0	18.28	0.067	18.38	0.069	18.18	0.066



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	19.13	0.082	19.20	0.083	19.24	0.084
1.4	QPSK	1	3	19.26	0.084	19.19	0.083	19.26	0.084
1.4	QPSK	1	5	19.15	0.082	19.09	0.081	19.10	0.081
1.4	QPSK	3	0	19.16	0.082	19.22	0.084	19.18	0.083
1.4	QPSK	3	1	19.22	0.084	19.09	0.081	19.19	0.083
1.4	QPSK	3	3	19.23	0.084	19.15	0.082	19.15	0.082
1.4	QPSK	6	0	18.27	0.067	18.26	0.067	18.25	0.067
1.4	16QAM	1	0	18.40	0.069	18.21	0.066	18.38	0.069
1.4	16QAM	1	3	18.20	0.066	18.44	0.070	18.33	0.068
1.4	16QAM	1	5	18.59	0.072	18.27	0.067	18.33	0.068
1.4	16QAM	3	0	18.12	0.065	18.10	0.065	18.24	0.067
1.4	16QAM	3	1	18.15	0.065	18.42	0.070	18.28	0.067
1.4	16QAM	3	3	18.23	0.067	18.34	0.068	18.22	0.066
1.4	16QAM	6	0	18.42	0.070	18.29	0.067	18.33	0.068
1.4	64QAM	1	0	17.95	0.062	18.12	0.065	18.14	0.065
1.4	64QAM	1	3	18.26	0.067	18.27	0.067	18.22	0.066
1.4	64QAM	1	5	18.21	0.066	18.20	0.066	18.08	0.064
1.4	64QAM	3	0	17.87	0.061	18.14	0.065	18.15	0.065
1.4	64QAM	3	1	18.15	0.065	18.09	0.064	18.10	0.065
1.4	64QAM	3	3	18.05	0.064	18.22	0.066	18.26	0.067
1.4	64QAM	6	0	18.26	0.067	18.38	0.069	18.27	0.067



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	24.44	0.278	24.46	0.279	24.42	0.277
20	QPSK	1	49	24.31	0.270	24.24	0.265	24.33	0.271
20	QPSK	1	99	24.15	0.260	24.19	0.262	24.25	0.266
20	QPSK	50	0	23.13	0.206	23.20	0.209	23.17	0.207
20	QPSK	50	24	22.89	0.195	22.86	0.193	22.76	0.189
20	QPSK	50	50	22.99	0.199	23.02	0.200	22.99	0.199
20	QPSK	100	0	22.94	0.197	22.96	0.198	22.93	0.196
20	16QAM	1	0	22.87	0.194	22.97	0.198	23.15	0.207
20	16QAM	1	49	23.02	0.200	22.88	0.194	23.16	0.207
20	16QAM	1	99	22.96	0.198	23.27	0.212	22.92	0.196
20	16QAM	50	0	22.81	0.191	22.91	0.195	22.84	0.192
20	16QAM	50	24	22.86	0.193	22.78	0.190	22.89	0.195
20	16QAM	50	50	22.94	0.197	22.99	0.199	22.82	0.191
20	16QAM	100	0	22.70	0.186	22.82	0.191	22.80	0.191
20	64QAM	1	0	23.18	0.208	23.02	0.200	22.75	0.188
20	64QAM	1	49	23.12	0.205	23.09	0.204	23.14	0.206
20	64QAM	1	99	23.10	0.204	23.15	0.207	23.06	0.202
20	64QAM	50	0	22.84	0.192	22.85	0.193	22.90	0.195
20	64QAM	50	24	22.89	0.195	22.90	0.195	22.90	0.195
20	64QAM	50	50	22.93	0.196	23.00	0.200	22.85	0.193
20	64QAM	100	0	22.86	0.193	22.83	0.192	22.95	0.197



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	23.78	0.239	23.87	0.244	23.87	0.244
15	QPSK	1	37	23.88	0.244	23.85	0.243	23.89	0.245
15	QPSK	1	74	23.82	0.241	23.89	0.245	23.89	0.245
15	QPSK	36	0	22.92	0.196	23.01	0.200	23.03	0.201
15	QPSK	36	20	23.00	0.200	23.07	0.203	23.02	0.200
15	QPSK	36	39	23.03	0.201	23.06	0.202	23.10	0.204
15	QPSK	75	0	23.09	0.204	23.02	0.200	23.04	0.201
15	16QAM	1	0	23.25	0.211	23.36	0.217	23.43	0.220
15	16QAM	1	37	23.07	0.203	23.18	0.208	23.16	0.207
15	16QAM	1	74	23.11	0.205	23.11	0.205	23.33	0.215
15	16QAM	36	0	22.82	0.191	22.93	0.196	22.95	0.197
15	16QAM	36	20	22.89	0.195	22.92	0.196	22.91	0.195
15	16QAM	36	39	22.95	0.197	22.93	0.196	22.82	0.191
15	16QAM	75	0	22.78	0.190	22.86	0.193	22.78	0.190
15	64QAM	1	0	23.08	0.203	23.05	0.202	22.93	0.196
15	64QAM	1	37	22.98	0.199	23.13	0.206	23.22	0.210
15	64QAM	1	74	22.97	0.198	23.09	0.204	23.15	0.207
15	64QAM	36	0	22.82	0.191	22.90	0.195	22.89	0.195
15	64QAM	36	20	22.93	0.196	22.92	0.196	22.99	0.199
15	64QAM	36	39	22.97	0.198	22.88	0.194	22.90	0.195
15	64QAM	75	0	22.82	0.191	22.92	0.196	22.87	0.194



LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20800		21100		21400	
Frequency (MHz)				2505		2535		2565	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	23.77	0.238	23.64	0.231	23.67	0.233
10	QPSK	1	25	23.80	0.240	23.70	0.234	23.72	0.236
10	QPSK	1	49	23.73	0.236	23.70	0.234	23.72	0.236
10	QPSK	25	0	22.84	0.192	22.84	0.192	22.83	0.192
10	QPSK	25	12	22.80	0.191	22.92	0.196	22.97	0.198
10	QPSK	25	25	22.73	0.187	22.91	0.195	22.91	0.195
10	QPSK	50	0	22.82	0.191	22.94	0.197	22.93	0.196
10	16QAM	1	0	22.87	0.194	23.05	0.202	22.90	0.195
10	16QAM	1	25	22.86	0.193	22.88	0.194	22.93	0.196
10	16QAM	1	49	23.33	0.215	23.23	0.210	23.14	0.206
10	16QAM	25	0	22.88	0.194	22.76	0.189	22.84	0.192
10	16QAM	25	12	22.70	0.186	22.87	0.194	22.80	0.191
10	16QAM	25	25	22.75	0.188	22.78	0.190	22.70	0.186
10	16QAM	50	0	22.78	0.190	22.87	0.194	22.72	0.187
10	64QAM	1	0	23.20	0.209	23.16	0.207	23.14	0.206
10	64QAM	1	25	22.89	0.195	23.14	0.206	22.97	0.198
10	64QAM	1	49	23.00	0.200	23.24	0.211	23.05	0.202
10	64QAM	25	0	22.86	0.193	22.84	0.192	22.88	0.194
10	64QAM	25	12	22.88	0.194	22.99	0.199	22.92	0.196
10	64QAM	25	25	22.81	0.191	22.71	0.187	22.70	0.186
10	64QAM	50	0	22.75	0.188	22.81	0.191	22.73	0.187



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	23.81	0.240	23.72	0.236	23.62	0.230
5	QPSK	1	12	23.68	0.233	23.61	0.230	23.69	0.234
5	QPSK	1	24	23.62	0.230	23.68	0.233	23.72	0.236
5	QPSK	12	0	22.76	0.189	22.84	0.192	22.76	0.189
5	QPSK	12	7	22.83	0.192	22.98	0.199	22.90	0.195
5	QPSK	12	13	22.85	0.193	23.01	0.200	22.86	0.193
5	QPSK	25	0	22.86	0.193	22.87	0.194	22.82	0.191
5	16QAM	1	0	22.84	0.192	22.82	0.191	22.88	0.194
5	16QAM	1	12	22.89	0.195	23.11	0.205	23.01	0.200
5	16QAM	1	24	22.95	0.197	23.14	0.206	22.96	0.198
5	16QAM	12	0	22.86	0.193	22.92	0.196	22.83	0.192
5	16QAM	12	7	22.87	0.194	22.89	0.195	22.85	0.193
5	16QAM	12	13	22.87	0.194	22.93	0.196	23.06	0.202
5	16QAM	25	0	22.84	0.192	22.89	0.195	22.91	0.195
5	64QAM	1	0	22.96	0.198	23.01	0.200	22.97	0.198
5	64QAM	1	12	23.01	0.200	23.13	0.206	23.01	0.200
5	64QAM	1	24	23.05	0.202	23.15	0.207	23.11	0.205
5	64QAM	12	0	22.88	0.194	22.85	0.193	22.90	0.195
5	64QAM	12	7	22.97	0.198	23.02	0.200	22.81	0.191
5	64QAM	12	13	22.92	0.196	23.01	0.200	22.87	0.194
5	64QAM	25	0	22.87	0.194	22.86	0.193	22.91	0.195



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	18.85	0.077	19.01	0.080	18.90	0.078
10	QPSK	1	25	18.71	0.074	18.84	0.077	18.87	0.077
10	QPSK	1	49	18.81	0.076	18.82	0.076	18.81	0.076
10	QPSK	25	0	18.10	0.065	18.20	0.066	18.11	0.065
10	QPSK	25	12	18.07	0.064	18.01	0.063	17.80	0.060
10	QPSK	25	25	18.12	0.065	18.18	0.066	18.11	0.065
10	QPSK	50	0	18.13	0.065	18.15	0.065	18.06	0.064
10	16QAM	1	0	18.06	0.064	17.61	0.058	17.74	0.059
10	16QAM	1	25	17.81	0.060	17.76	0.060	17.90	0.062
10	16QAM	1	49	17.90	0.062	17.95	0.062	17.84	0.061
10	16QAM	25	0	17.79	0.060	17.81	0.060	17.75	0.060
10	16QAM	25	12	17.83	0.061	17.87	0.061	17.76	0.060
10	16QAM	25	25	17.88	0.061	17.89	0.062	17.83	0.061
10	16QAM	50	0	17.78	0.060	17.86	0.061	17.91	0.062
10	64QAM	1	0	17.63	0.058	17.75	0.060	18.09	0.064
10	64QAM	1	25	18.07	0.064	18.13	0.065	17.72	0.059
10	64QAM	1	49	18.09	0.064	17.77	0.060	17.70	0.059
10	64QAM	25	0	17.60	0.058	17.54	0.057	17.51	0.056
10	64QAM	25	12	17.65	0.058	17.68	0.059	17.60	0.058
10	64QAM	25	25	17.70	0.059	17.67	0.058	17.67	0.058
10	64QAM	50	0	17.62	0.058	17.55	0.057	17.66	0.058



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	18.60	0.072	18.93	0.078	18.71	0.074
5	QPSK	1	12	18.76	0.075	18.92	0.078	18.76	0.075
5	QPSK	1	24	18.72	0.074	18.91	0.078	18.77	0.075
5	QPSK	12	0	17.83	0.061	17.90	0.062	17.89	0.062
5	QPSK	12	7	17.94	0.062	17.96	0.063	17.93	0.062
5	QPSK	12	13	17.89	0.062	17.92	0.062	17.89	0.062
5	QPSK	25	0	17.85	0.061	17.97	0.063	17.93	0.062
5	16QAM	1	0	17.86	0.061	17.88	0.061	17.90	0.062
5	16QAM	1	12	18.03	0.064	17.98	0.063	17.99	0.063
5	16QAM	1	24	17.99	0.063	17.97	0.063	17.93	0.062
5	16QAM	12	0	17.73	0.059	17.70	0.059	17.73	0.059
5	16QAM	12	7	17.87	0.061	17.92	0.062	17.76	0.060
5	16QAM	12	13	17.82	0.061	17.79	0.060	17.84	0.061
5	16QAM	25	0	17.83	0.061	17.79	0.060	17.81	0.060
5	64QAM	1	0	17.61	0.058	17.62	0.058	17.67	0.058
5	64QAM	1	12	18.06	0.064	17.76	0.060	17.69	0.059
5	64QAM	1	24	18.04	0.064	17.73	0.059	17.78	0.060
5	64QAM	12	0	17.58	0.057	17.60	0.058	17.55	0.057
5	64QAM	12	7	17.68	0.059	17.56	0.057	17.62	0.058
5	64QAM	12	13	17.55	0.057	17.65	0.058	17.70	0.059
5	64QAM	25	0	17.70	0.059	17.66	0.058	17.63	0.058





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	18.68	0.074	18.95	0.079	18.62	0.073
3	QPSK	1	8	18.86	0.077	18.85	0.077	18.75	0.075
3	QPSK	1	14	18.80	0.076	18.91	0.078	18.86	0.077
3	QPSK	8	0	17.91	0.062	17.89	0.062	17.89	0.062
3	QPSK	8	4	17.94	0.062	17.97	0.063	17.98	0.063
3	QPSK	8	7	17.89	0.062	17.97	0.063	17.91	0.062
3	QPSK	15	0	17.88	0.061	17.96	0.063	17.82	0.061
3	16QAM	1	0	17.89	0.062	18.25	0.067	17.84	0.061
3	16QAM	1	8	18.09	0.064	18.07	0.064	18.02	0.063
3	16QAM	1	14	17.92	0.062	17.97	0.063	17.83	0.061
3	16QAM	8	0	17.89	0.062	17.78	0.060	17.81	0.060
3	16QAM	8	4	17.94	0.062	17.91	0.062	18.02	0.063
3	16QAM	8	7	17.78	0.060	17.81	0.060	17.87	0.061
3	16QAM	15	0	17.76	0.060	17.69	0.059	17.68	0.059
3	64QAM	1	0	17.62	0.058	17.96	0.063	17.95	0.062
3	64QAM	1	8	17.91	0.062	17.81	0.060	17.82	0.061
3	64QAM	1	14	17.84	0.061	17.69	0.059	17.80	0.060
3	64QAM	8	0	17.51	0.056	17.59	0.057	17.50	0.056
3	64QAM	8	4	17.60	0.058	17.64	0.058	17.63	0.058
3	64QAM	8	7	17.59	0.057	17.51	0.056	17.66	0.058
3	64QAM	15	0	17.58	0.057	17.60	0.058	17.52	0.056



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	18.71	0.074	18.88	0.077	18.68	0.074
1.4	QPSK	1	3	18.82	0.076	18.81	0.076	18.83	0.076
1.4	QPSK	1	5	18.71	0.074	18.76	0.075	18.72	0.074
1.4	QPSK	3	0	18.66	0.073	18.79	0.076	18.77	0.075
1.4	QPSK	3	1	18.87	0.077	18.87	0.077	18.54	0.071
1.4	QPSK	3	3	18.82	0.076	18.84	0.077	18.80	0.076
1.4	QPSK	6	0	17.88	0.061	17.85	0.061	17.83	0.061
1.4	16QAM	1	0	17.92	0.062	17.86	0.061	17.71	0.059
1.4	16QAM	1	3	17.73	0.059	18.16	0.065	17.83	0.061
1.4	16QAM	1	5	17.85	0.061	17.86	0.061	17.85	0.061
1.4	16QAM	3	0	17.69	0.059	17.72	0.059	17.73	0.059
1.4	16QAM	3	1	17.85	0.061	17.93	0.062	17.77	0.060
1.4	16QAM	3	3	17.68	0.059	17.82	0.061	17.82	0.061
1.4	16QAM	6	0	17.61	0.058	17.81	0.060	17.71	0.059
1.4	64QAM	1	0	17.46	0.056	17.61	0.058	17.45	0.056
1.4	64QAM	1	3	17.58	0.057	17.51	0.056	17.56	0.057
1.4	64QAM	1	5	17.74	0.059	17.77	0.060	17.73	0.059
1.4	64QAM	3	0	17.64	0.058	17.65	0.058	17.48	0.056
1.4	64QAM	3	1	17.62	0.058	17.86	0.061	17.71	0.059
1.4	64QAM	3	3	17.64	0.058	17.48	0.056	17.64	0.058
1.4	64QAM	6	0	17.60	0.058	17.61	0.058	17.48	0.056



LTE Band 13				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				/		23230		/	
Frequency (MHz)				/		782		/	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	/	/	19.00	0.079	/	/
10	QPSK	1	25	/	/	18.92	0.078	/	/
10	QPSK	1	49	/	/	18.97	0.079	/	/
10	QPSK	25	0	/	/	18.09	0.064	/	/
10	QPSK	25	12	/	/	17.90	0.062	/	/
10	QPSK	25	25	/	/	17.84	0.061	/	/
10	QPSK	50	0	/	/	17.87	0.061	/	/
10	16QAM	1	0	/	/	17.99	0.063	/	/
10	16QAM	1	25	/	/	17.91	0.062	/	/
10	16QAM	1	49	/	/	18.21	0.066	/	/
10	16QAM	25	0	/	/	18.02	0.063	/	/
10	16QAM	25	12	/	/	17.97	0.063	/	/
10	16QAM	25	25	/	/	18.10	0.065	/	/
10	16QAM	50	0	/	/	17.87	0.061	/	/
10	64QAM	1	0	/	/	18.17	0.066	/	/
10	64QAM	1	25	/	/	17.99	0.063	/	/
10	64QAM	1	49	/	/	17.96	0.063	/	/
10	64QAM	25	0	/	/	17.89	0.062	/	/
10	64QAM	25	12	/	/	17.82	0.061	/	/
10	64QAM	25	25	/	/	17.88	0.061	/	/
10	64QAM	50	0	/	/	17.95	0.062	/	/



LTE Band 13				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23205		23230		23255	
Frequency (MHz)				779.5		782		784.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	18.89	0.077	18.92	0.078	18.90	0.078
5	QPSK	1	12	18.89	0.077	18.91	0.078	18.87	0.077
5	QPSK	1	24	18.88	0.077	18.86	0.077	18.79	0.076
5	QPSK	12	0	17.80	0.060	17.88	0.061	17.97	0.063
5	QPSK	12	7	17.87	0.061	17.86	0.061	17.95	0.062
5	QPSK	12	13	17.79	0.060	17.95	0.062	17.93	0.062
5	QPSK	25	0	17.86	0.061	17.83	0.061	17.93	0.062
5	16QAM	1	0	17.51	0.056	17.87	0.061	17.66	0.058
5	16QAM	1	12	17.57	0.057	17.72	0.059	17.60	0.058
5	16QAM	1	24	17.67	0.058	17.49	0.056	17.50	0.056
5	16QAM	12	0	18.10	0.065	18.07	0.064	18.00	0.063
5	16QAM	12	7	18.11	0.065	18.00	0.063	18.12	0.065
5	16QAM	12	13	18.08	0.064	18.07	0.064	18.11	0.065
5	16QAM	25	0	17.87	0.061	17.91	0.062	17.93	0.062
5	64QAM	1	0	18.13	0.065	18.11	0.065	18.03	0.064
5	64QAM	1	12	18.09	0.064	17.99	0.063	18.12	0.065
5	64QAM	1	24	18.10	0.065	18.09	0.064	18.09	0.064
5	64QAM	12	0	17.92	0.062	17.98	0.063	18.05	0.064
5	64QAM	12	7	18.09	0.064	17.88	0.061	17.98	0.063
5	64QAM	12	13	17.88	0.061	17.99	0.063	17.89	0.062
5	64QAM	25	0	17.79	0.060	17.90	0.062	17.90	0.062



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	18.89	0.077	18.92	0.078	18.89	0.077
10	QPSK	1	25	18.77	0.075	18.73	0.075	18.79	0.076
10	QPSK	1	49	18.70	0.074	18.73	0.075	18.68	0.074
10	QPSK	25	0	18.00	0.063	18.06	0.064	17.98	0.063
10	QPSK	25	12	17.85	0.061	17.79	0.060	17.93	0.062
10	QPSK	25	25	17.83	0.061	17.83	0.061	17.92	0.062
10	QPSK	50	0	17.96	0.063	17.83	0.061	17.84	0.061
10	16QAM	1	0	17.69	0.059	17.88	0.061	18.02	0.063
10	16QAM	1	25	17.90	0.062	18.19	0.066	18.03	0.064
10	16QAM	1	49	17.86	0.061	18.11	0.065	18.16	0.065
10	16QAM	25	0	17.80	0.060	18.04	0.064	18.03	0.064
10	16QAM	25	12	17.86	0.061	18.01	0.063	17.99	0.063
10	16QAM	25	25	17.69	0.059	17.95	0.062	18.00	0.063
10	16QAM	50	0	17.73	0.059	18.02	0.063	17.99	0.063
10	64QAM	1	0	17.70	0.059	18.03	0.064	17.71	0.059
10	64QAM	1	25	17.93	0.062	17.83	0.061	17.73	0.059
10	64QAM	1	49	17.67	0.058	17.70	0.059	17.70	0.059
10	64QAM	25	0	17.85	0.061	18.02	0.063	18.00	0.063
10	64QAM	25	12	17.77	0.060	17.85	0.061	18.02	0.063
10	64QAM	25	25	17.71	0.059	17.92	0.062	18.08	0.064
10	64QAM	50	0	17.78	0.060	18.01	0.063	18.02	0.063



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	18.83	0.076	18.79	0.076	18.75	0.075
5	QPSK	1	12	18.82	0.076	18.78	0.076	18.77	0.075
5	QPSK	1	24	18.74	0.075	18.80	0.076	18.79	0.076
5	QPSK	12	0	17.90	0.062	18.08	0.064	17.97	0.063
5	QPSK	12	7	18.02	0.063	18.11	0.065	17.67	0.058
5	QPSK	12	13	17.81	0.060	17.69	0.059	17.75	0.060
5	QPSK	25	0	17.81	0.060	17.61	0.058	17.74	0.059
5	16QAM	1	0	17.92	0.062	17.97	0.063	17.69	0.059
5	16QAM	1	12	18.09	0.064	17.65	0.058	18.02	0.063
5	16QAM	1	24	17.93	0.062	17.98	0.063	18.14	0.065
5	16QAM	12	0	17.81	0.060	17.84	0.061	18.05	0.064
5	16QAM	12	7	17.81	0.060	17.88	0.061	18.00	0.063
5	16QAM	12	13	17.72	0.059	17.97	0.063	18.00	0.063
5	16QAM	25	0	17.82	0.061	17.94	0.062	17.98	0.063
5	64QAM	1	0	17.62	0.058	17.63	0.058	17.63	0.058
5	64QAM	1	12	17.66	0.058	17.63	0.058	17.71	0.059
5	64QAM	1	24	17.71	0.059	17.71	0.059	17.63	0.058
5	64QAM	12	0	17.77	0.060	17.82	0.061	18.06	0.064
5	64QAM	12	7	17.90	0.062	17.98	0.063	17.92	0.062
5	64QAM	12	13	17.75	0.060	17.93	0.062	17.95	0.062
5	64QAM	25	0	17.72	0.059	17.91	0.062	18.07	0.064



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	24.16	0.261	24.18	0.262	24.11	0.258
20	QPSK	1	49	24.11	0.258	24.11	0.258	24.12	0.258
20	QPSK	1	99	24.12	0.258	24.07	0.255	24.17	0.261
20	QPSK	50	0	23.27	0.212	23.28	0.213	23.26	0.212
20	QPSK	50	24	23.12	0.205	23.05	0.202	23.02	0.200
20	QPSK	50	50	23.26	0.212	23.06	0.202	23.05	0.202
20	QPSK	100	0	23.05	0.202	23.12	0.205	23.06	0.202
20	16QAM	1	0	23.22	0.210	23.05	0.202	23.12	0.205
20	16QAM	1	49	23.10	0.204	23.05	0.202	23.00	0.200
20	16QAM	1	99	23.02	0.200	23.12	0.205	23.10	0.204
20	16QAM	50	0	23.12	0.205	23.05	0.202	23.35	0.216
20	16QAM	50	24	23.33	0.215	23.02	0.200	23.12	0.205
20	16QAM	50	50	23.39	0.218	23.48	0.223	23.09	0.204
20	16QAM	100	0	23.32	0.215	23.47	0.222	23.16	0.207
20	64QAM	1	0	23.07	0.203	23.27	0.212	23.10	0.204
20	64QAM	1	49	23.19	0.208	23.09	0.204	23.38	0.218
20	64QAM	1	99	23.14	0.206	23.05	0.202	23.14	0.206
20	64QAM	50	0	23.11	0.205	23.08	0.203	23.03	0.201
20	64QAM	50	24	23.27	0.212	23.15	0.207	23.12	0.205
20	64QAM	50	50	23.26	0.212	23.29	0.213	23.18	0.208
20	64QAM	100	0	23.36	0.217	23.32	0.215	23.00	0.200



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	23.88	0.244	24.08	0.256	23.95	0.248
15	QPSK	1	37	24.06	0.255	24.12	0.258	23.95	0.248
15	QPSK	1	74	24.04	0.254	24.05	0.254	23.88	0.244
15	QPSK	36	0	23.22	0.210	23.07	0.203	23.27	0.212
15	QPSK	36	20	23.27	0.212	23.03	0.201	23.23	0.210
15	QPSK	36	39	23.30	0.214	23.02	0.200	23.26	0.212
15	QPSK	75	0	23.32	0.215	23.05	0.202	23.29	0.213
15	16QAM	1	0	23.13	0.206	23.42	0.220	23.07	0.203
15	16QAM	1	37	23.30	0.214	22.99	0.199	23.13	0.206
15	16QAM	1	74	23.22	0.210	23.06	0.202	22.97	0.198
15	16QAM	36	0	23.29	0.213	22.96	0.198	23.16	0.207
15	16QAM	36	20	23.23	0.210	22.92	0.196	23.12	0.205
15	16QAM	36	39	23.36	0.217	23.46	0.222	23.16	0.207
15	16QAM	75	0	23.37	0.217	22.94	0.197	23.16	0.207
15	64QAM	1	0	23.08	0.203	23.32	0.215	22.96	0.198
15	64QAM	1	37	23.22	0.210	23.46	0.222	23.09	0.204
15	64QAM	1	74	23.15	0.207	23.25	0.211	23.43	0.220
15	64QAM	36	0	23.21	0.209	23.03	0.201	23.17	0.207
15	64QAM	36	20	23.32	0.215	23.47	0.222	23.10	0.204
15	64QAM	36	39	23.31	0.214	23.44	0.221	23.16	0.207
15	64QAM	75	0	23.32	0.215	23.44	0.221	23.20	0.209





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	23.97	0.249	24.05	0.254	23.93	0.247
10	QPSK	1	25	24.02	0.252	23.92	0.247	23.88	0.244
10	QPSK	1	49	23.89	0.245	24.12	0.258	24.12	0.258
10	QPSK	25	0	23.27	0.212	23.15	0.207	23.11	0.205
10	QPSK	25	12	23.26	0.212	23.04	0.201	23.11	0.205
10	QPSK	25	25	23.35	0.216	22.99	0.199	23.15	0.207
10	QPSK	50	0	23.39	0.218	23.07	0.203	23.13	0.206
10	16QAM	1	0	22.74	0.188	22.89	0.195	23.14	0.206
10	16QAM	1	25	22.83	0.192	23.04	0.201	22.97	0.198
10	16QAM	1	49	22.79	0.190	22.96	0.198	23.10	0.204
10	16QAM	25	0	22.82	0.191	23.10	0.204	23.28	0.213
10	16QAM	25	12	22.79	0.190	22.96	0.198	23.22	0.210
10	16QAM	25	25	22.86	0.193	23.08	0.203	23.35	0.216
10	16QAM	50	0	22.82	0.191	23.06	0.202	23.24	0.211
10	64QAM	1	0	23.17	0.207	22.77	0.189	23.11	0.205
10	64QAM	1	25	23.29	0.213	22.94	0.197	23.16	0.207
10	64QAM	1	49	23.18	0.208	22.81	0.191	23.07	0.203
10	64QAM	25	0	23.32	0.215	23.02	0.200	23.20	0.209
10	64QAM	25	12	23.29	0.213	22.91	0.195	23.20	0.209
10	64QAM	25	25	23.33	0.215	23.00	0.200	23.17	0.207
10	64QAM	50	0	23.30	0.214	23.05	0.202	23.26	0.212



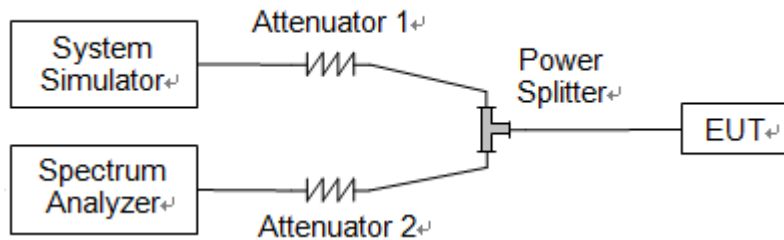
LTE Band 38				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37775		38000		38225	
Frequency (MHz)				2572.5		2595		2617.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	23.82	0.241	24.05	0.254	24.02	0.252
5	QPSK	1	12	23.97	0.249	23.92	0.247	24.05	0.254
5	QPSK	1	24	23.88	0.244	24.02	0.252	23.75	0.237
5	QPSK	12	0	23.20	0.209	23.24	0.211	23.33	0.215
5	QPSK	12	7	23.33	0.215	23.09	0.204	23.39	0.218
5	QPSK	12	13	23.33	0.215	23.31	0.214	23.45	0.221
5	QPSK	25	0	23.34	0.216	23.32	0.215	23.47	0.222
5	16QAM	1	0	23.17	0.207	23.33	0.215	23.02	0.200
5	16QAM	1	12	23.34	0.216	23.50	0.224	23.18	0.208
5	16QAM	1	24	23.20	0.209	23.31	0.214	23.03	0.201
5	16QAM	12	0	22.97	0.198	22.97	0.198	23.15	0.207
5	16QAM	12	7	22.92	0.196	23.07	0.203	23.26	0.212
5	16QAM	12	13	23.05	0.202	22.97	0.198	23.19	0.208
5	16QAM	25	0	22.93	0.196	23.05	0.202	23.26	0.212
5	64QAM	1	0	23.24	0.211	23.29	0.213	23.04	0.201
5	64QAM	1	12	23.45	0.221	23.42	0.220	23.13	0.206
5	64QAM	1	24	23.30	0.214	23.35	0.216	22.99	0.199
5	64QAM	12	0	23.48	0.223	22.95	0.197	23.07	0.203
5	64QAM	12	7	22.96	0.198	23.03	0.201	23.25	0.211
5	64QAM	12	13	22.95	0.197	22.82	0.191	23.13	0.206
5	64QAM	25	0	22.95	0.197	22.88	0.194	23.22	0.210

## 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	1.26
	Low	16QAM	1.10	1.28
	Low	64QAM	1.10	1.28
	Mid	QPSK	1.09	1.26
	Mid	16QAM	1.10	1.28
	Mid	64QAM	1.10	1.28
	High	QPSK	1.09	1.26
	High	16QAM	1.10	1.29
	High	64QAM	1.10	1.28
3	Low	QPSK	2.69	2.96
	Low	16QAM	2.69	2.98
	Low	64QAM	2.69	2.96
	Mid	QPSK	2.69	2.96
	Mid	16QAM	2.69	2.98
	Mid	64QAM	2.69	2.97
	High	QPSK	2.69	2.95
	High	16QAM	2.69	2.97
	High	64QAM	2.69	2.97
5	Low	QPSK	4.50	4.92
	Low	16QAM	4.51	4.87
	Low	64QAM	4.50	4.91
	Mid	QPSK	4.50	4.93
	Mid	16QAM	4.51	4.91
	Mid	64QAM	4.50	4.91
	High	QPSK	4.50	4.94
	High	16QAM	4.50	4.91
	High	64QAM	4.50	4.93
10	Low	QPSK	9.01	9.74
	Low	16QAM	8.96	9.68
	Low	64QAM	8.99	9.73
	Mid	QPSK	9.00	9.76
	Mid	16QAM	8.97	9.72
	Mid	64QAM	8.97	9.74
	High	QPSK	9.02	9.74
	High	16QAM	8.96	9.69
	High	64QAM	8.98	9.77



15	Low	QPSK	13.44	14.6
	Low	16QAM	13.47	16.13
	Low	64QAM	13.44	14.61
	Mid	QPSK	13.46	14.59
	Mid	16QAM	13.47	14.57
	Mid	64QAM	13.44	14.63
	High	QPSK	13.50	14.62
	High	16QAM	13.46	14.58
	High	64QAM	13.45	14.59
20	Low	QPSK	17.92	19.39
	Low	16QAM	17.99	20.13
	Low	64QAM	17.94	19.36
	Mid	QPSK	17.95	24.65
	Mid	16QAM	17.99	19.81
	Mid	64QAM	17.97	19.41
	High	QPSK	17.95	19.4
	High	16QAM	17.94	19.44
	High	64QAM	17.93	19.41



LTE Band 4				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.28
	Low	16QAM	1.10	1.28
	Low	64QAM	1.10	1.27
	Mid	QPSK	1.10	1.28
	Mid	16QAM	1.10	1.28
	Mid	64QAM	1.10	1.28
	High	QPSK	1.10	1.27
	High	16QAM	1.10	1.28
	High	64QAM	1.09	1.27
3	Low	QPSK	2.69	2.96
	Low	16QAM	2.69	2.98
	Low	64QAM	2.69	2.96
	Mid	QPSK	2.69	2.95
	Mid	16QAM	2.69	2.98
	Mid	64QAM	2.70	2.97
	High	QPSK	2.66	2.91
	High	16QAM	2.69	2.97
	High	64QAM	2.69	2.96
5	Low	QPSK	4.50	4.93
	Low	16QAM	4.50	4.94
	Low	64QAM	4.50	4.94
	Mid	QPSK	4.50	4.94
	Mid	16QAM	4.51	4.92
	Mid	64QAM	4.51	4.94
	High	QPSK	4.50	4.93
	High	16QAM	4.50	4.93
	High	64QAM	4.51	4.91
10	Low	QPSK	8.99	9.71
	Low	16QAM	8.96	9.66
	Low	64QAM	8.95	9.73
	Mid	QPSK	9.01	9.76
	Mid	16QAM	8.96	9.72
	Mid	64QAM	9.00	9.74
	High	QPSK	8.98	9.74
	High	16QAM	8.96	9.65
	High	64QAM	8.97	9.75



15	Low	QPSK	13.45	14.63
	Low	16QAM	13.45	14.61
	Low	64QAM	13.43	14.51
	Mid	QPSK	13.46	14.61
	Mid	16QAM	13.48	14.62
	Mid	64QAM	13.46	14.52
	High	QPSK	13.46	14.56
	High	16QAM	13.44	14.56
	High	64QAM	13.43	14.62
20	Low	QPSK	17.93	19.43
	Low	16QAM	17.93	19.33
	Low	64QAM	17.92	19.39
	Mid	QPSK	17.95	19.39
	Mid	16QAM	17.98	19.46
	Mid	64QAM	17.96	19.54
	High	QPSK	17.91	19.3
	High	16QAM	17.96	19.38
	High	64QAM	17.93	19.51



LTE Band 5				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.28
	Low	16QAM	1.10	1.27
	Low	64QAM	1.10	1.28
	Mid	QPSK	1.10	1.28
	Mid	16QAM	1.10	1.28
	Mid	64QAM	1.10	1.28
	High	QPSK	1.10	1.27
	High	16QAM	1.10	1.28
	High	64QAM	1.10	1.27
3	Low	QPSK	2.69	2.99
	Low	16QAM	2.69	2.99
	Low	64QAM	2.70	2.97
	Mid	QPSK	2.69	2.97
	Mid	16QAM	2.69	2.97
	Mid	64QAM	2.69	2.97
	High	QPSK	2.69	2.99
	High	16QAM	2.69	2.98
	High	64QAM	2.70	2.97
5	Low	QPSK	4.50	4.93
	Low	16QAM	4.50	4.92
	Low	64QAM	4.50	4.91
	Mid	QPSK	4.50	4.92
	Mid	16QAM	4.50	4.90
	Mid	64QAM	4.50	4.91
	High	QPSK	4.49	4.91
	High	16QAM	4.49	4.91
	High	64QAM	4.50	4.90
10	Low	QPSK	8.97	9.72
	Low	16QAM	8.95	9.64
	Low	64QAM	8.97	9.77
	Mid	QPSK	8.98	9.76
	Mid	16QAM	8.97	9.74
	Mid	64QAM	9.00	10.51
	High	QPSK	8.99	9.71
	High	16QAM	8.94	9.64
	High	64QAM	8.96	9.69





LTE Band 7				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.51	4.92
	Low	16QAM	4.50	4.91
	Low	64QAM	4.50	4.92
	Mid	QPSK	4.50	4.93
	Mid	16QAM	4.50	4.93
	Mid	64QAM	4.51	4.92
	High	QPSK	4.50	4.94
	High	16QAM	4.50	4.92
	High	64QAM	4.51	4.93
10	Low	QPSK	9.01	9.76
	Low	16QAM	8.96	9.67
	Low	64QAM	8.98	9.76
	Mid	QPSK	9.00	9.76
	Mid	16QAM	8.97	9.69
	Mid	64QAM	8.98	9.77
	High	QPSK	9.00	9.73
	High	16QAM	8.97	9.72
	High	64QAM	8.99	9.75
15	Low	QPSK	13.47	14.54
	Low	16QAM	13.45	14.56
	Low	64QAM	13.43	14.63
	Mid	QPSK	13.49	14.55
	Mid	16QAM	13.47	14.59
	Mid	64QAM	13.45	14.62
	High	QPSK	13.48	14.51
	High	16QAM	13.46	14.57
	High	64QAM	13.43	14.64
20	Low	QPSK	17.89	19.42
	Low	16QAM	17.93	19.32
	Low	64QAM	17.88	19.44
	Mid	QPSK	17.95	19.41
	Mid	16QAM	17.95	19.33
	Mid	64QAM	17.95	19.32
	High	QPSK	17.92	19.33
	High	16QAM	17.96	19.3
	High	64QAM	17.92	19.3



LTE Band 12				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.27
	Low	16QAM	1.10	1.29
	Low	64QAM	1.10	1.3
	Mid	QPSK	1.10	1.27
	Mid	16QAM	1.10	1.28
	Mid	64QAM	1.10	1.29
	High	QPSK	1.09	1.26
	High	16QAM	1.10	1.27
	High	64QAM	1.10	1.28
3	Low	QPSK	2.69	3.00
	Low	16QAM	2.69	2.98
	Low	64QAM	2.69	2.99
	Mid	QPSK	2.69	2.97
	Mid	16QAM	2.69	2.99
	Mid	64QAM	2.70	3.00
	High	QPSK	2.69	2.98
	High	16QAM	2.69	2.97
	High	64QAM	2.70	2.98
5	Low	QPSK	4.50	4.95
	Low	16QAM	4.50	4.90
	Low	64QAM	4.50	4.91
	Mid	QPSK	4.50	4.93
	Mid	16QAM	4.50	4.89
	Mid	64QAM	4.50	4.91
	High	QPSK	4.50	4.91
	High	16QAM	4.50	4.93
	High	64QAM	4.50	4.91
10	Low	QPSK	9.00	9.71
	Low	16QAM	8.96	9.67
	Low	64QAM	8.97	9.77
	Mid	QPSK	8.97	9.75
	Mid	16QAM	8.94	9.67
	Mid	64QAM	8.96	9.72
	High	QPSK	9.00	9.76
	High	16QAM	8.96	9.74
	High	64QAM	8.96	9.78



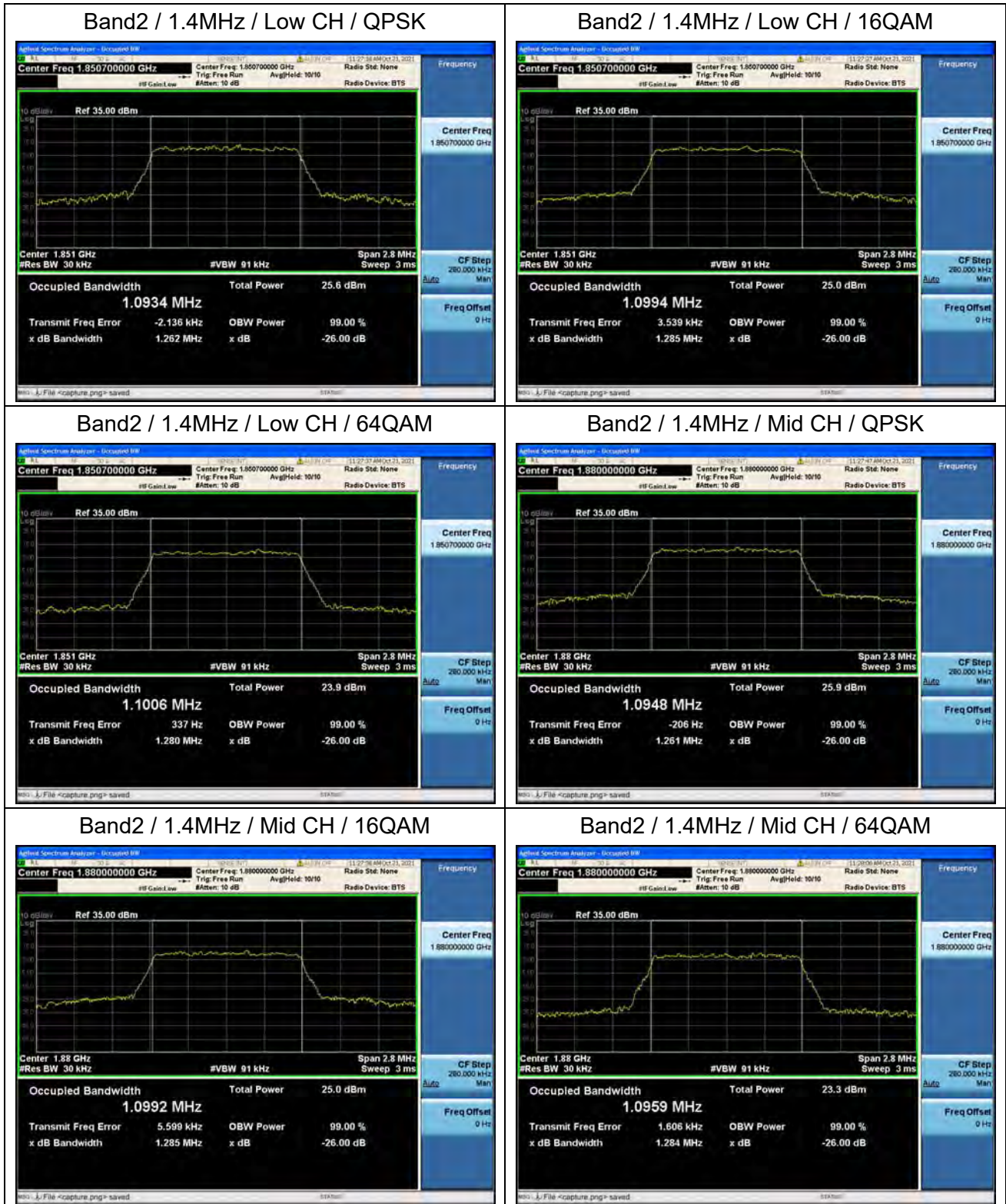
LTE Band 13				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.48	4.78
	Low	16QAM	4.50	4.91
	Low	64QAM	4.50	4.92
	Mid	QPSK	4.50	4.91
	Mid	16QAM	4.51	4.93
	Mid	64QAM	4.51	5.01
	High	QPSK	4.49	4.91
	High	16QAM	4.49	4.92
	High	64QAM	4.50	4.90
10	Mid	QPSK	9.00	9.91
	Mid	16QAM	8.97	10.77
	Mid	64QAM	8.98	13.51



LTE Band 17				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.50	4.91
	Low	16QAM	4.50	4.88
	Low	64QAM	4.50	4.89
	Mid	QPSK	4.50	4.94
	Mid	16QAM	4.51	4.91
	Mid	64QAM	4.50	4.91
	High	QPSK	4.51	4.91
	High	16QAM	4.51	4.88
	High	64QAM	4.51	4.91
10	Low	QPSK	8.99	9.74
	Low	16QAM	8.95	9.64
	Low	64QAM	8.98	9.77
	Mid	QPSK	8.98	9.76
	Mid	16QAM	8.95	9.71
	Mid	64QAM	8.97	9.71
	High	QPSK	9.01	9.73
	High	16QAM	8.96	9.65
	High	64QAM	8.98	9.80



LTE Band 38				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.50	4.91
	Low	16QAM	4.51	5.05
	Low	64QAM	4.52	4.88
	Mid	QPSK	4.50	4.92
	Mid	16QAM	4.50	5.01
	Mid	64QAM	4.51	4.86
	High	QPSK	4.50	4.92
	High	16QAM	4.50	4.86
	High	64QAM	4.52	4.94
10	Low	QPSK	8.99	9.73
	Low	16QAM	8.98	9.92
	Low	64QAM	8.99	9.89
	Mid	QPSK	8.98	9.78
	Mid	16QAM	8.97	10.01
	Mid	64QAM	8.99	9.82
	High	QPSK	8.97	9.70
	High	16QAM	8.97	9.89
	High	64QAM	8.98	9.94
15	Low	QPSK	13.48	14.53
	Low	16QAM	13.45	14.51
	Low	64QAM	13.43	14.45
	Mid	QPSK	13.48	14.53
	Mid	16QAM	13.46	14.64
	Mid	64QAM	13.44	16.20
	High	QPSK	13.46	14.51
	High	16QAM	13.46	14.69
	High	64QAM	13.43	14.57
20	Low	QPSK	17.92	19.38
	Low	16QAM	17.94	19.40
	Low	64QAM	17.91	19.27
	Mid	QPSK	17.94	19.20
	Mid	16QAM	17.95	20.10
	Mid	64QAM	17.92	19.89
	High	QPSK	17.93	19.39
	High	16QAM	17.91	19.41
	High	64QAM	17.89	19.31

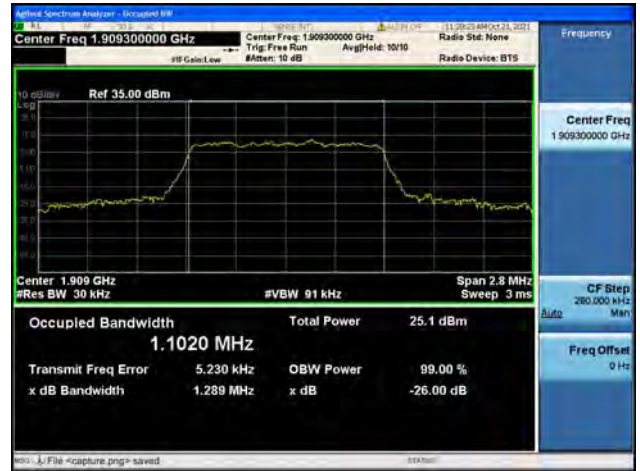




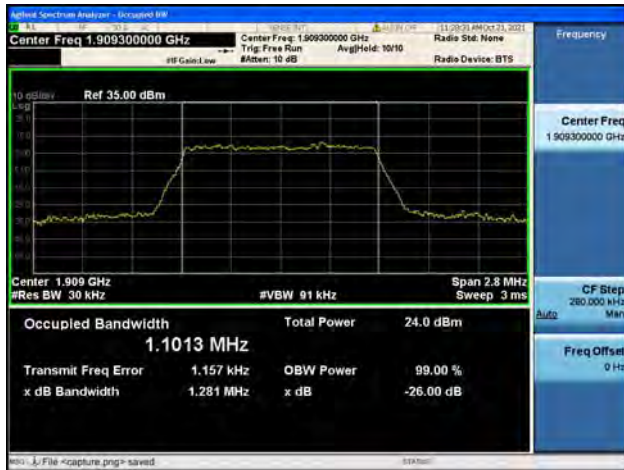
Band2 / 1.4MHz / High CH / QPSK



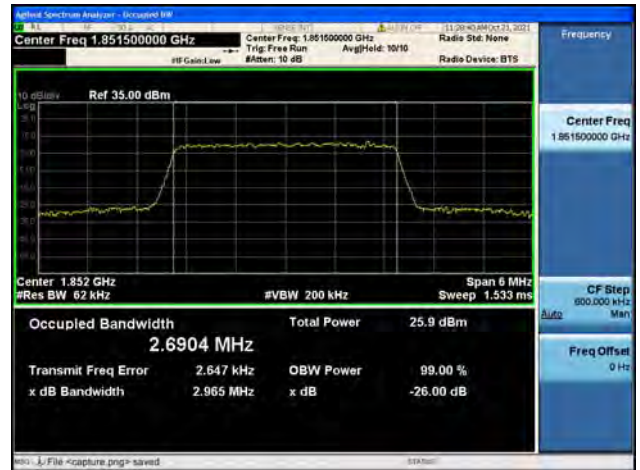
Band2 / 1.4MHz / High CH / 16QAM



Band2 / 1.4MHz / High CH / 64QAM



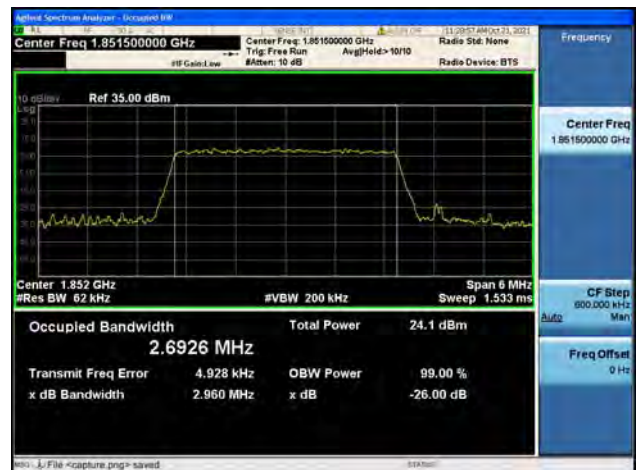
Band2 / 3MHz / Low CH / QPSK

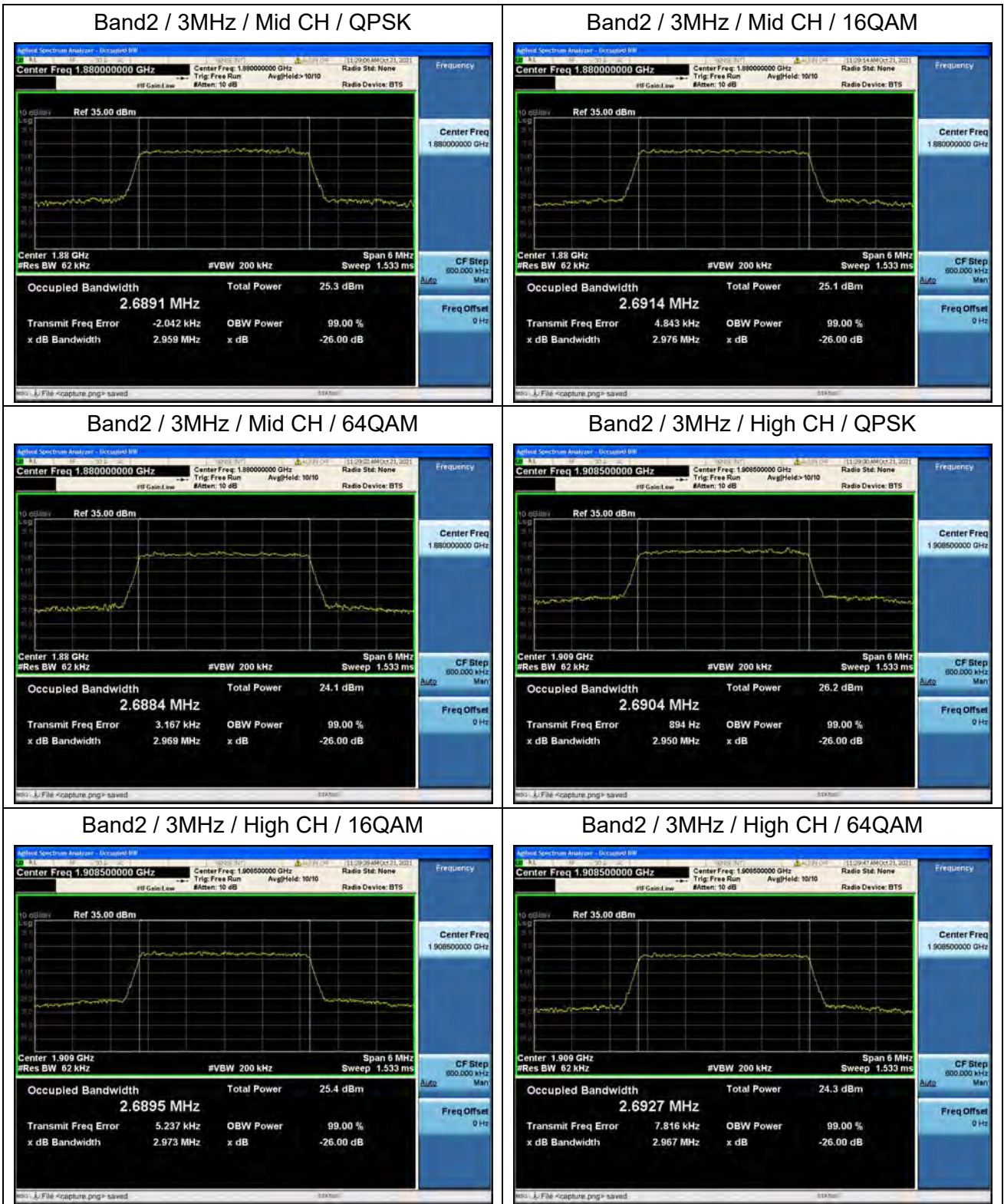


Band2 / 3MHz / Low CH / 16QAM



Band2 / 3MHz / Low CH / 64QAM

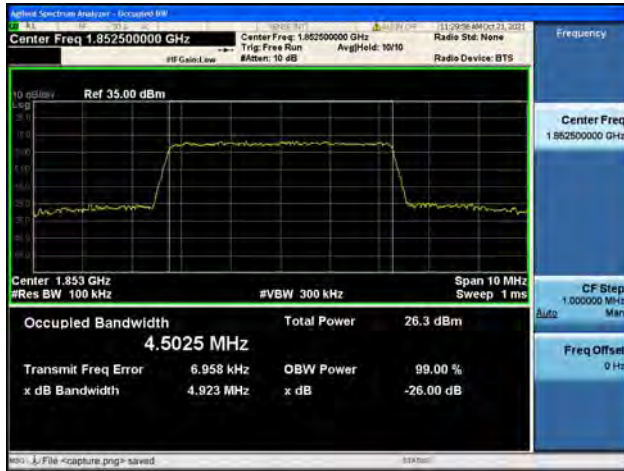




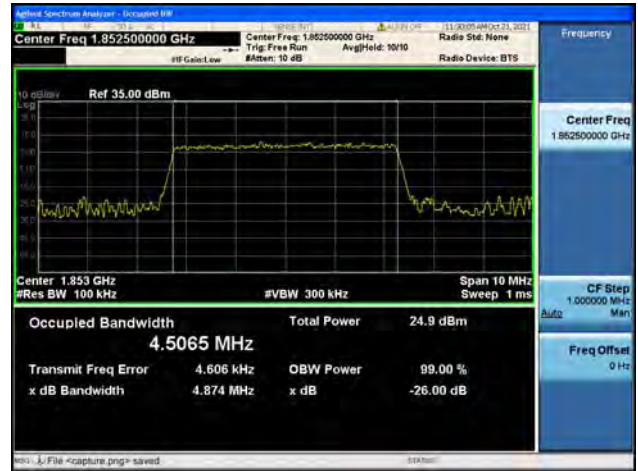




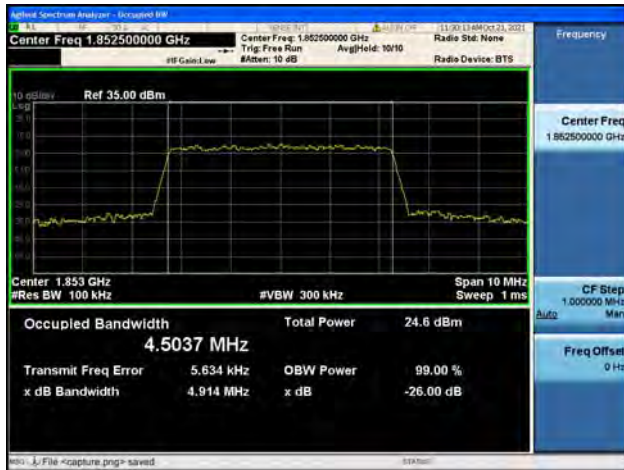
Band2 / 5MHz / Low CH / QPSK



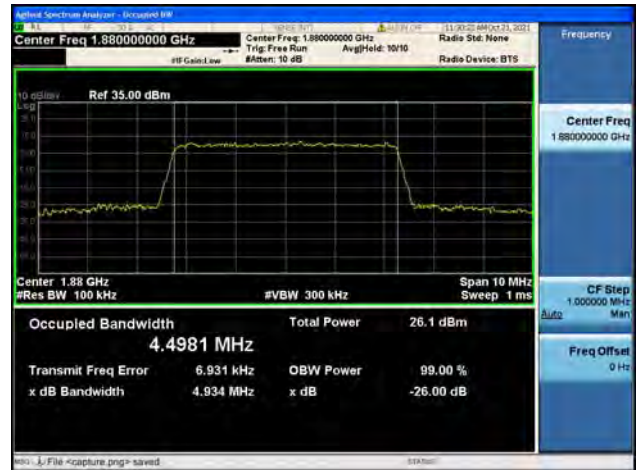
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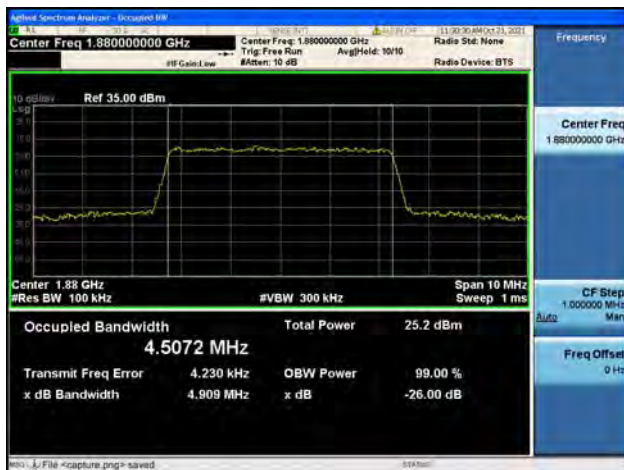
Band2 / 5MHz / Low CH / 64QAM



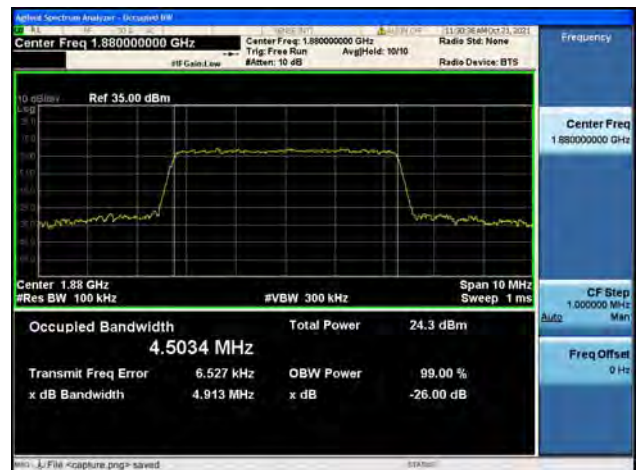
Band2 / 5MHz / Mid CH / QPSK



Band2 / 5MHz / Mid CH / 16QAM

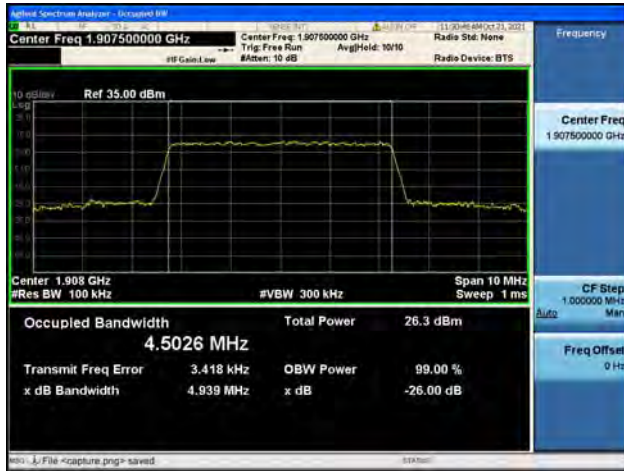


Band2 / 5MHz / Mid CH / 64QAM





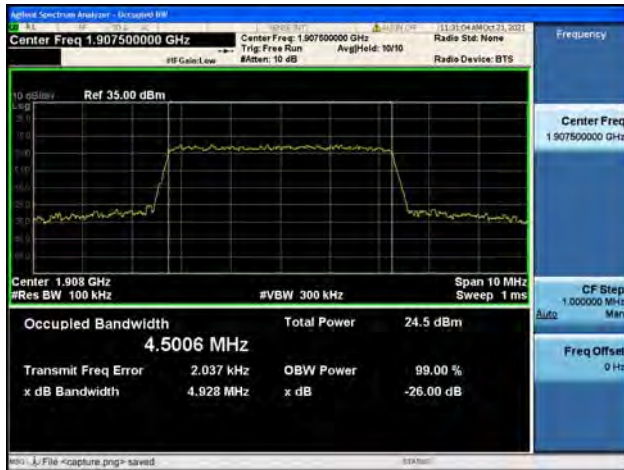
Band2 / 5MHz / High CH / QPSK



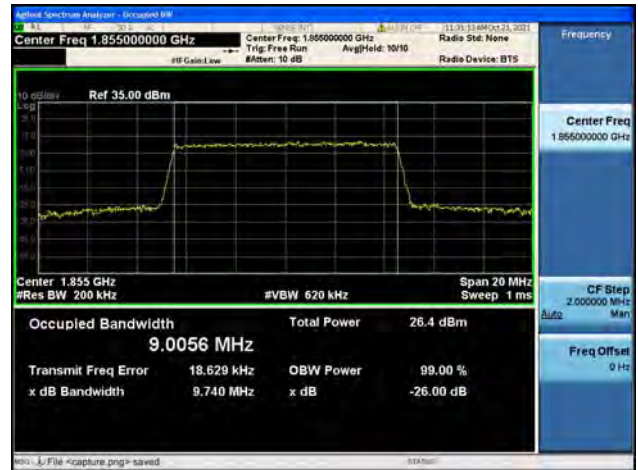
Band2 / 5MHz / High CH / 16QAM



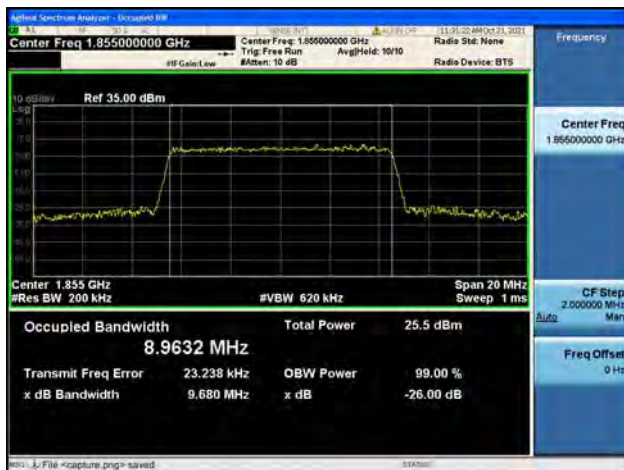
Band2 / 5MHz / High CH / 64QAM



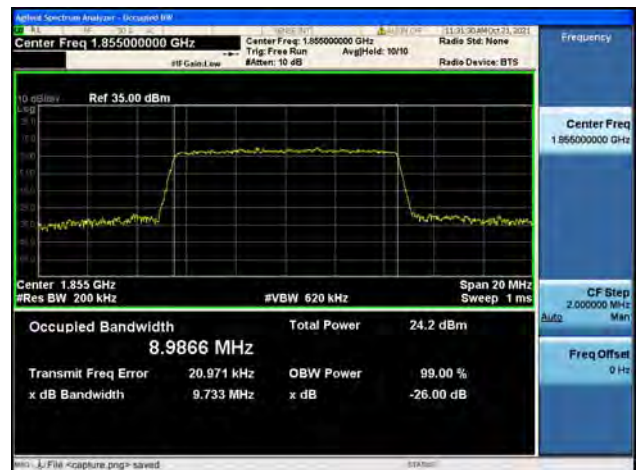
Band2 / 10MHz / Low CH / QPSK



Band2 / 10MHz / Low CH / 16QAM



Band2 / 10MHz / Low CH / 64QAM

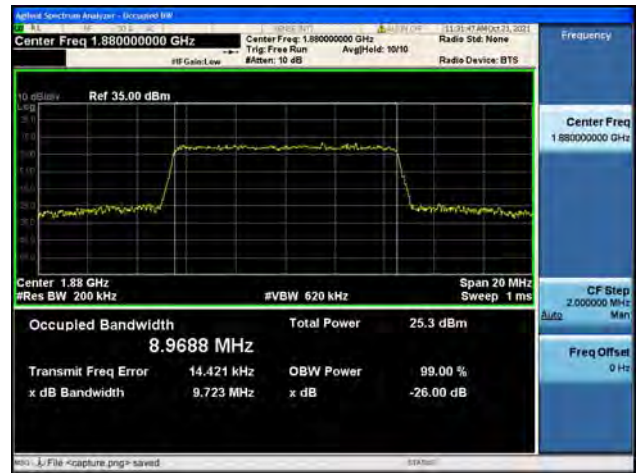




Band2 / 10MHz / Mid CH / QPSK



Band2 / 10MHz / Mid CH / 16QAM



Band2 / 10MHz / Mid CH / 64QAM



Band2 / 10MHz / High CH / QPSK



Band2 / 10MHz / High CH / 16QAM

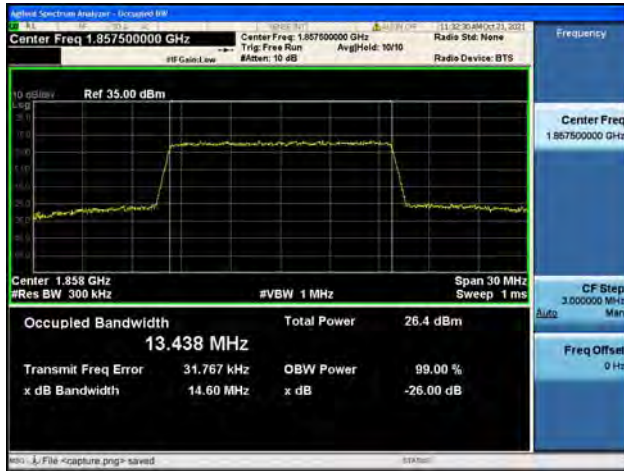


Band2 / 10MHz / High CH / 64QAM

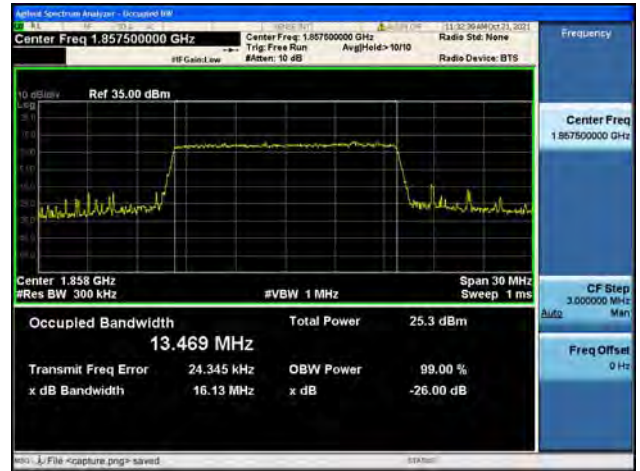




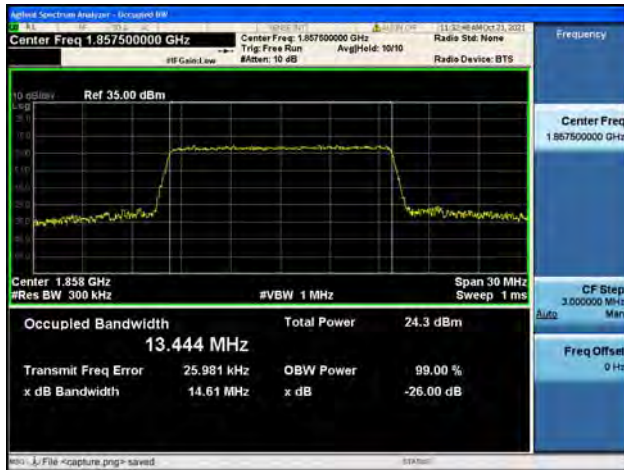
Band2 / 15MHz / Low CH / QPSK



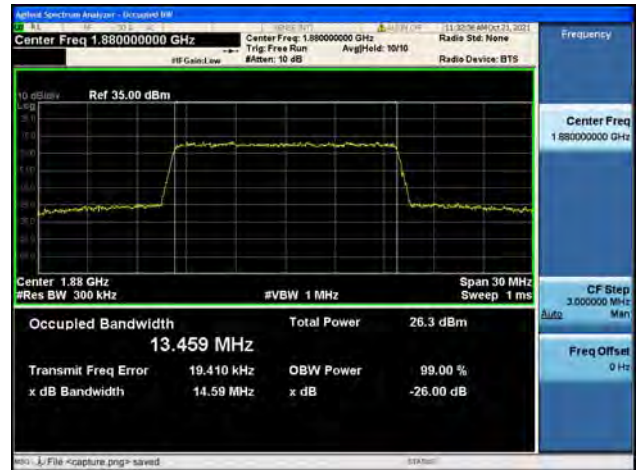
Band2 / 15MHz / Low CH / 16QAM



Band2 / 15MHz / Low CH / 64QAM



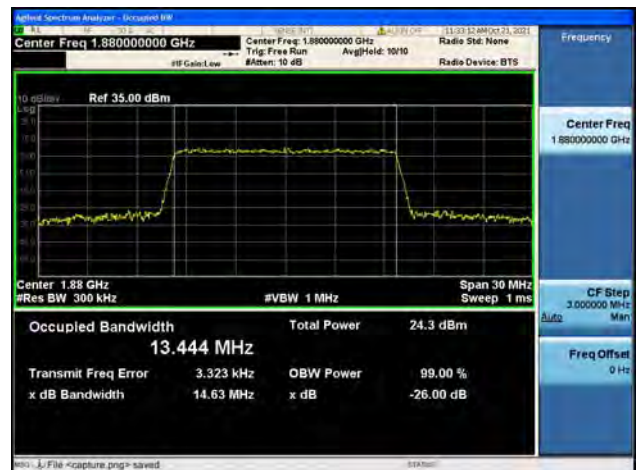
Band2 / 15MHz / Mid CH / QPSK



Band2 / 15MHz / Mid CH / 16QAM

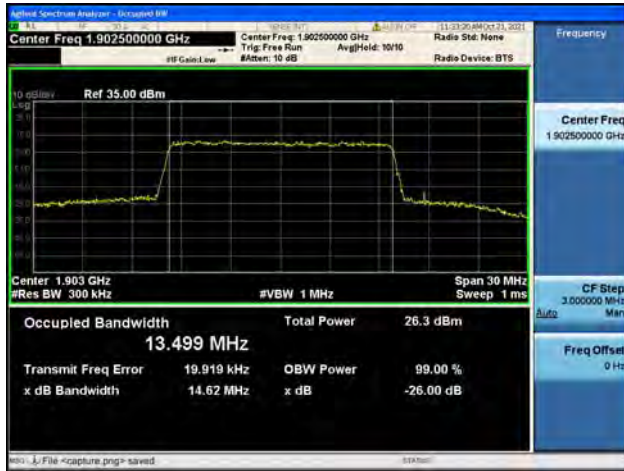


Band2 / 15MHz / Mid CH / 64QAM

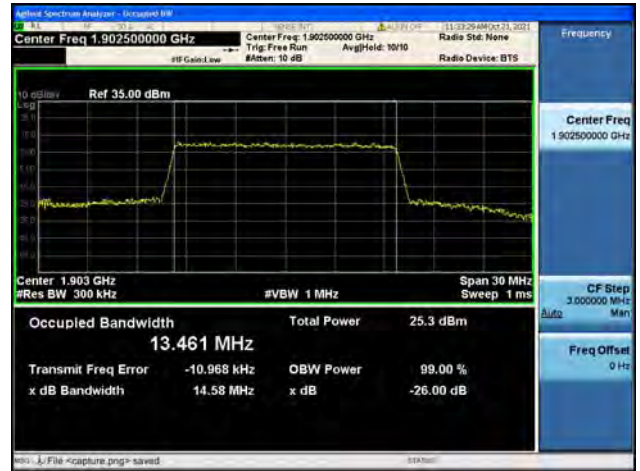




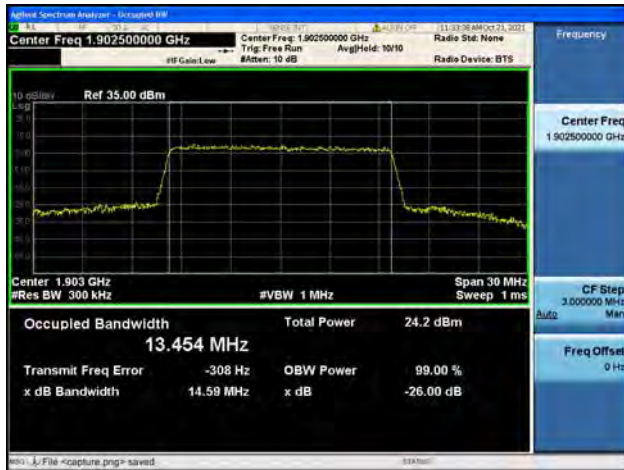
Band2 / 15MHz / High CH / QPSK



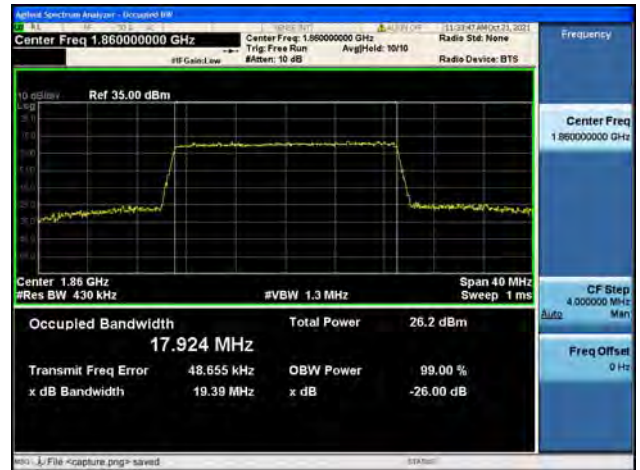
Band2 / 15MHz / High CH / 16QAM



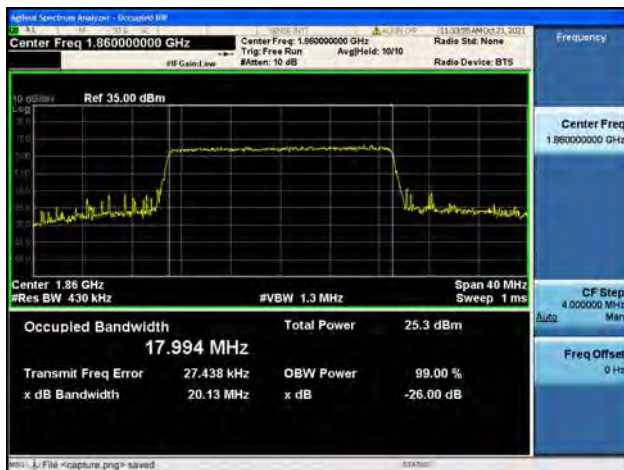
Band2 / 15MHz / High CH / 64QAM



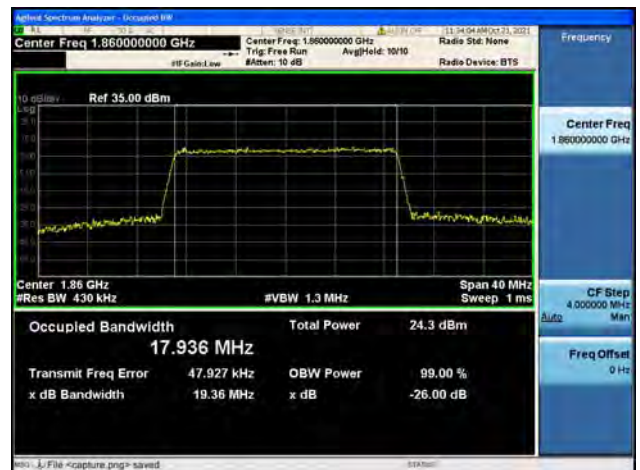
Band2 / 20MHz / Low CH / QPSK



Band2 / 20MHz / Low CH / 16QAM

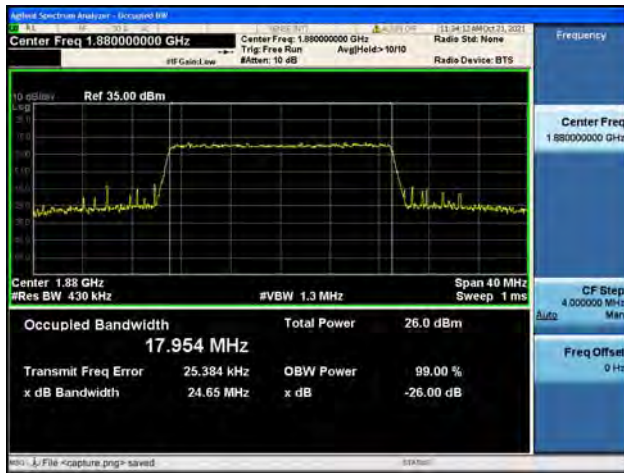


Band2 / 20MHz / Low CH / 64QAM

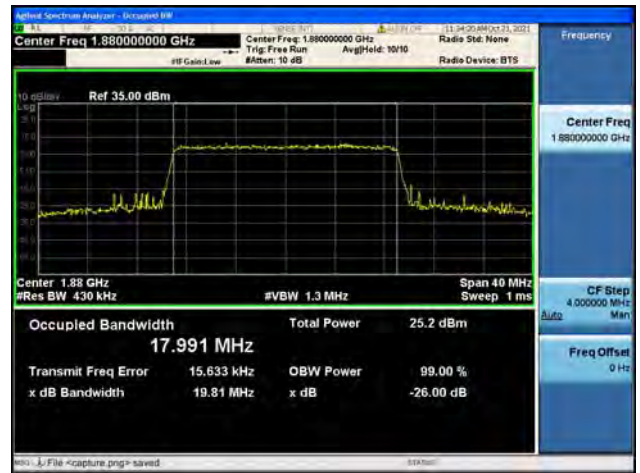




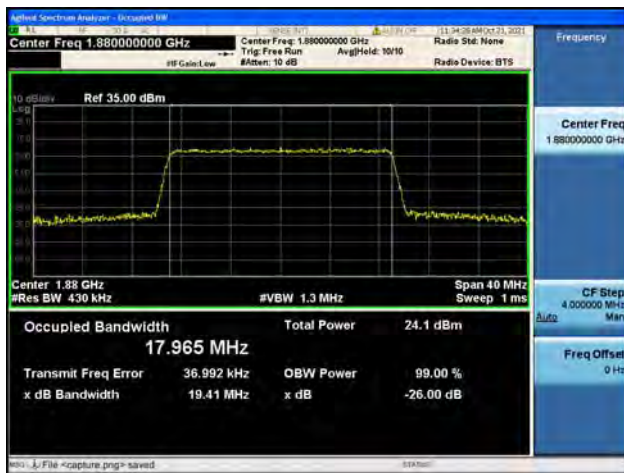
Band2 / 20MHz / Mid CH / QPSK



Band2 / 20MHz / Mid CH / 16QAM



Band2 / 20MHz / Mid CH / 64QAM



Band2 / 20MHz / High CH / QPSK

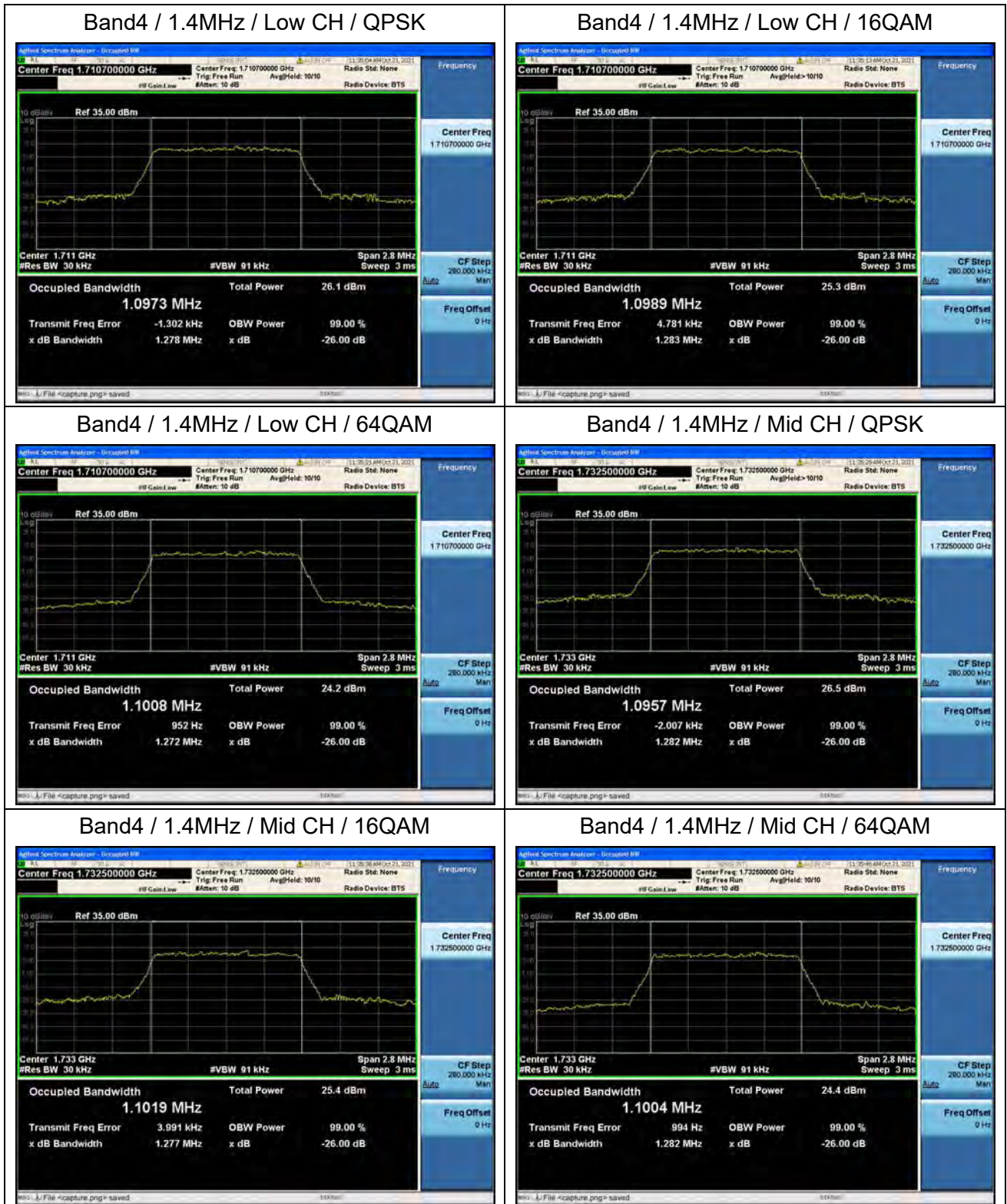


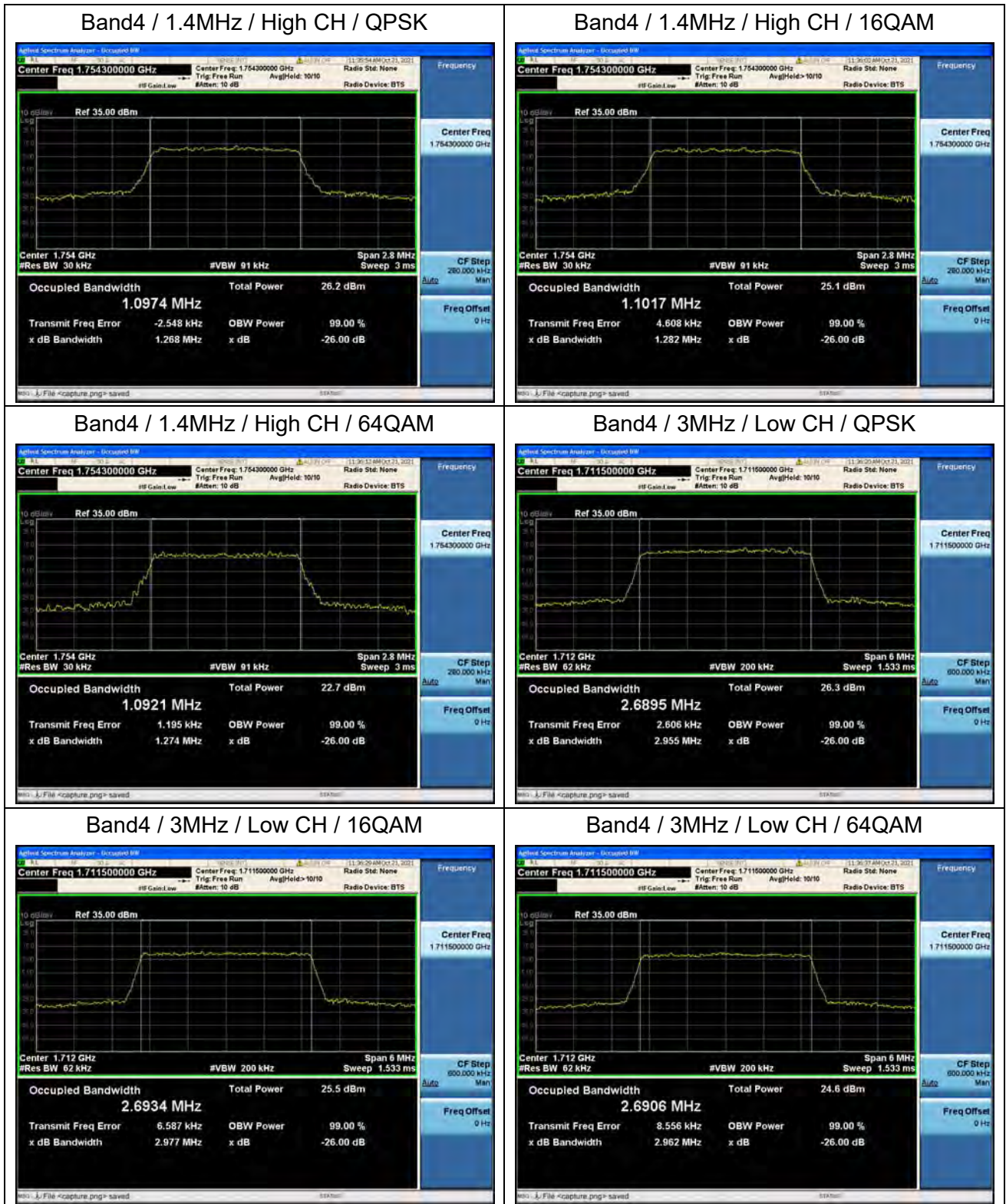
Band2 / 20MHz / High CH / 16QAM



Band2 / 20MHz / High CH / 64QAM







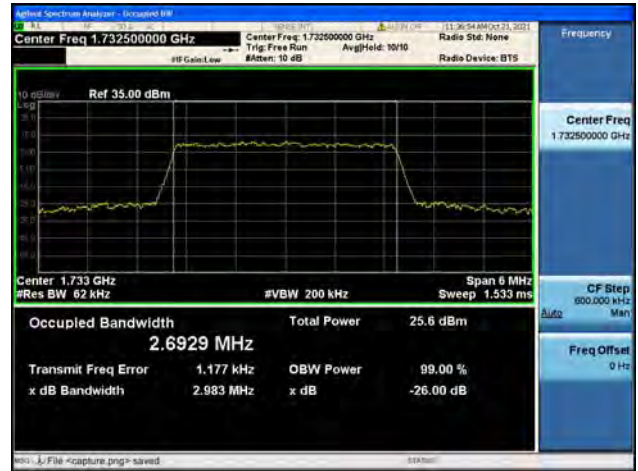




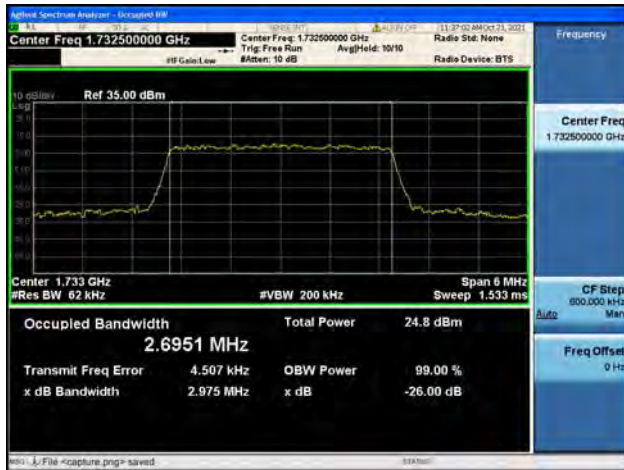
Band4 / 3MHz / Mid CH / QPSK



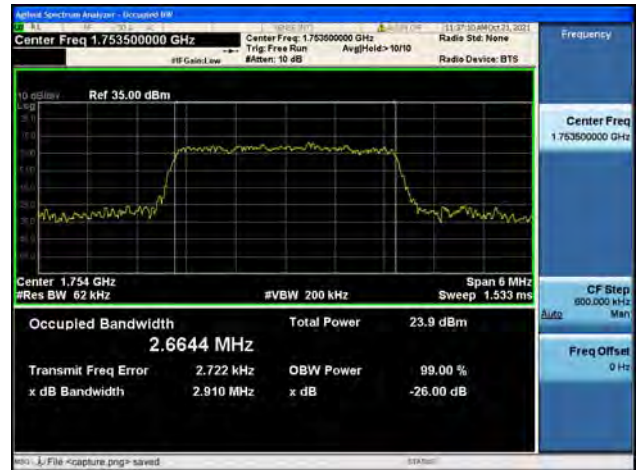
Band4 / 3MHz / Mid CH / 16QAM



Band4 / 3MHz / Mid CH / 64QAM



Band4 / 3MHz / High CH / QPSK



Band4 / 3MHz / High CH / 16QAM

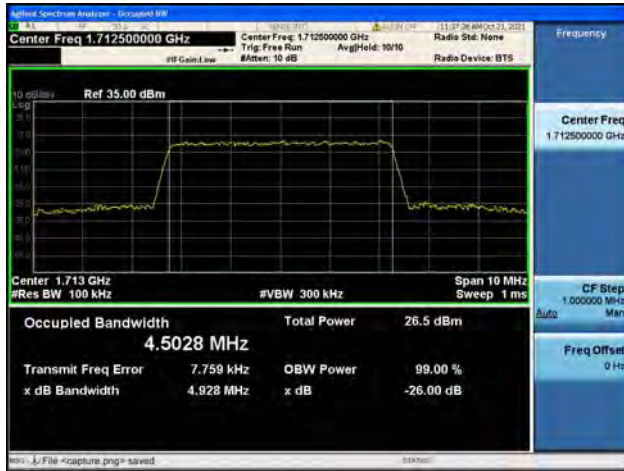


Band4 / 3MHz / High CH / 64QAM

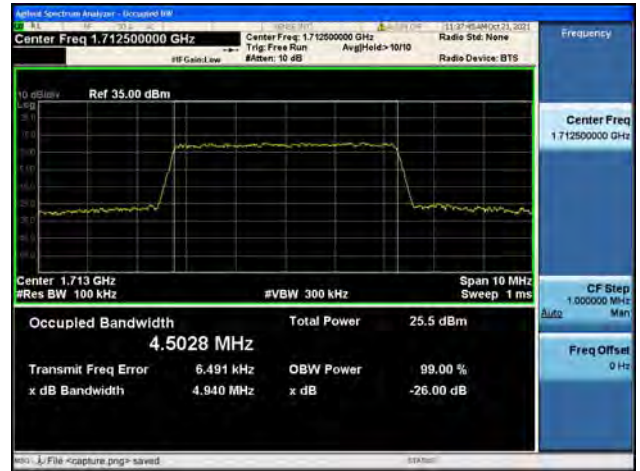




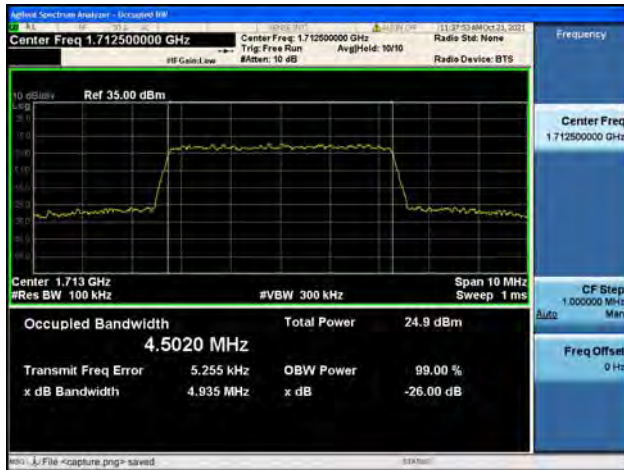
Band4 / 5MHz / Low CH / QPSK



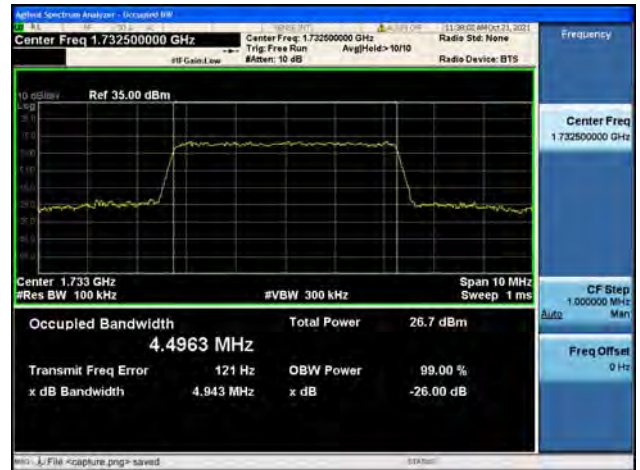
Band4 / 5MHz / Low CH / 16QAM



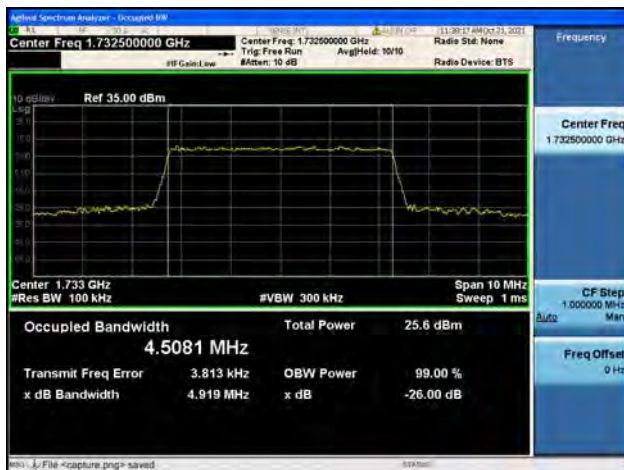
Band4 / 5MHz / Low CH / 64QAM



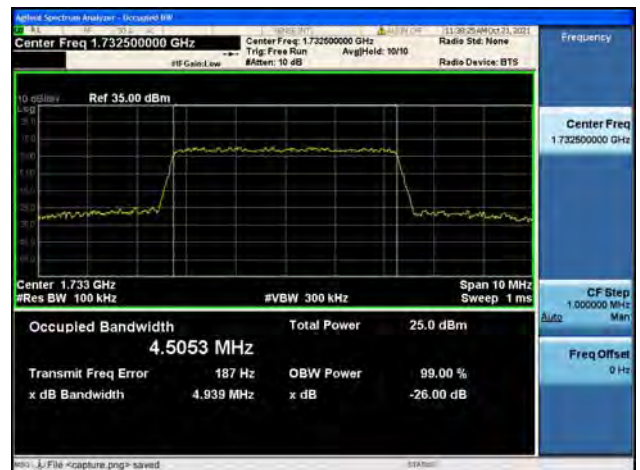
Band4 / 5MHz / Mid CH / QPSK



Band4 / 5MHz / Mid CH / 16QAM

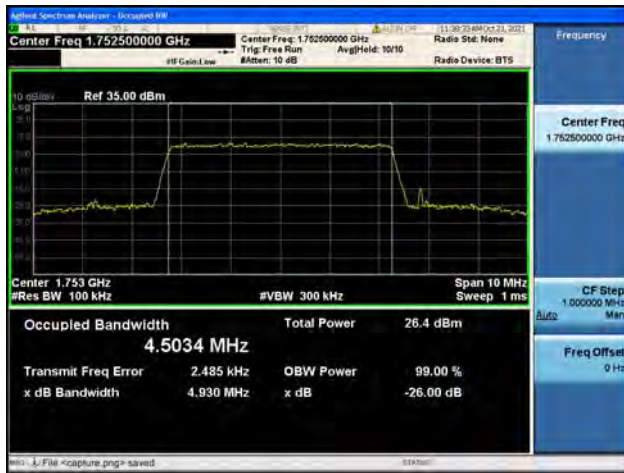


Band4 / 5MHz / Mid CH / 64QAM

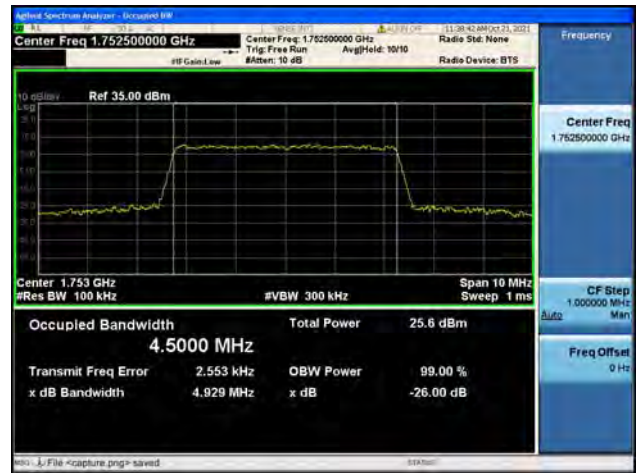




Band4 / 5MHz / High CH / QPSK



Band4 / 5MHz / High CH / 16QAM



Band4 / 5MHz / High CH / 64QAM



Band4 / 10MHz / Low CH / QPSK



Band4 / 10MHz / Low CH / 16QAM

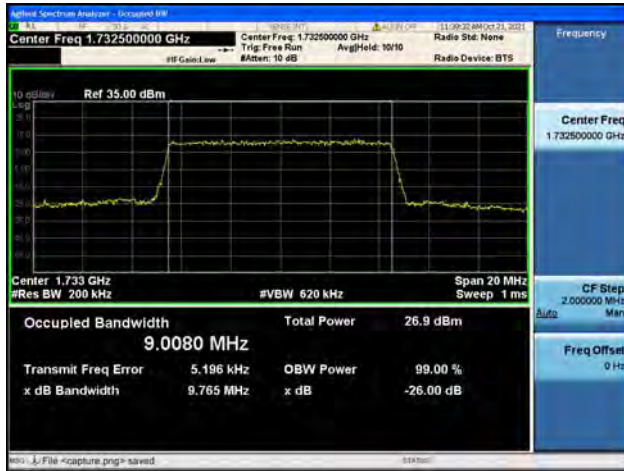


Band4 / 10MHz / Low CH / 64QAM

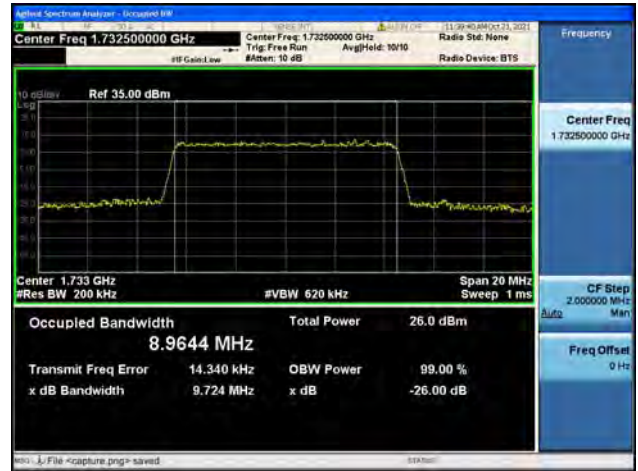




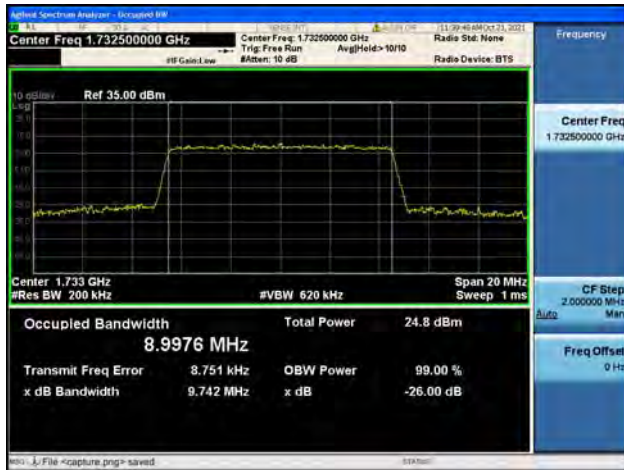
Band4 / 10MHz / Mid CH / QPSK



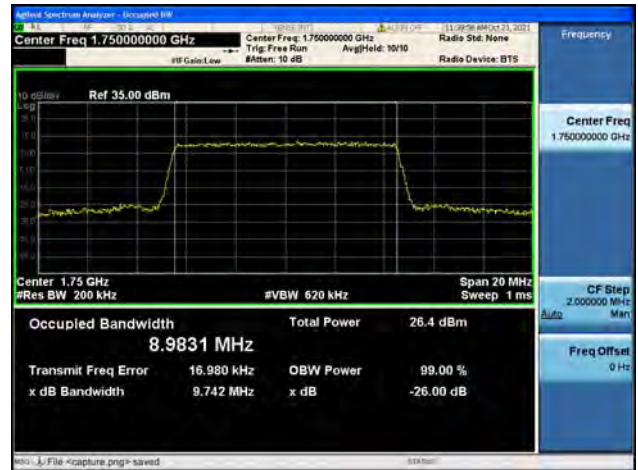
Band4 / 10MHz / Mid CH / 16QAM



Band4 / 10MHz / Mid CH / 64QAM



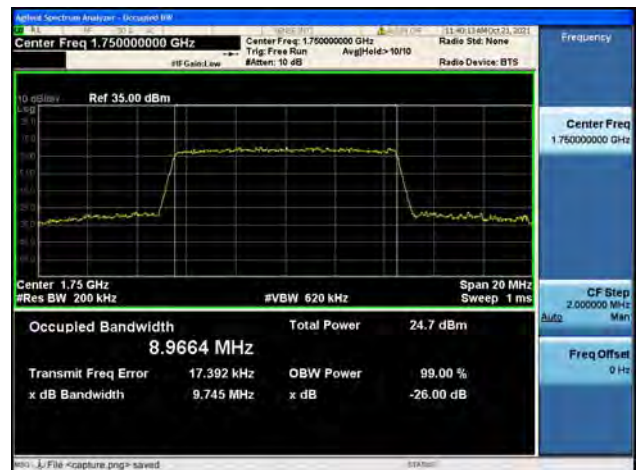
Band4 / 10MHz / High CH / QPSK



Band4 / 10MHz / High CH / 16QAM

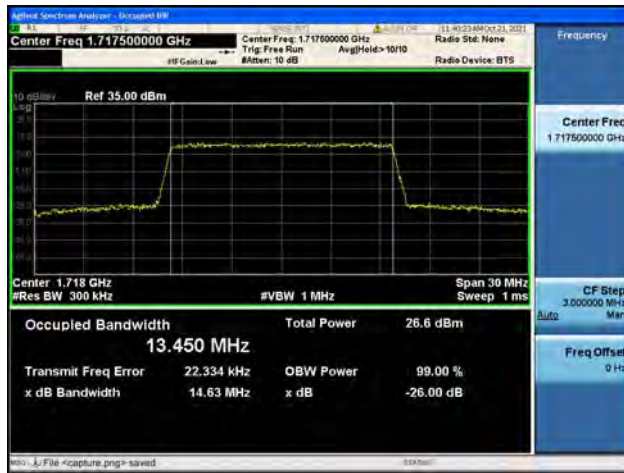


Band4 / 10MHz / High CH / 64QAM

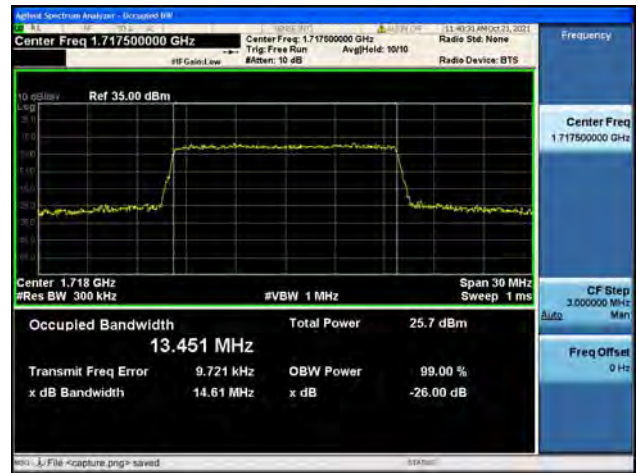




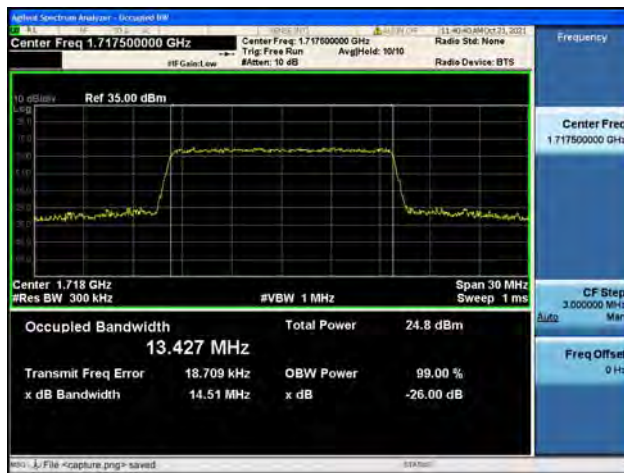
Band4 / 15MHz / Low CH / QPSK



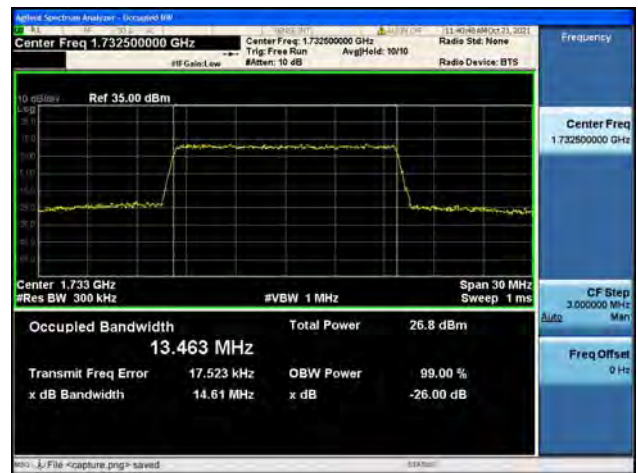
Band4 / 15MHz / Low CH / 16QAM



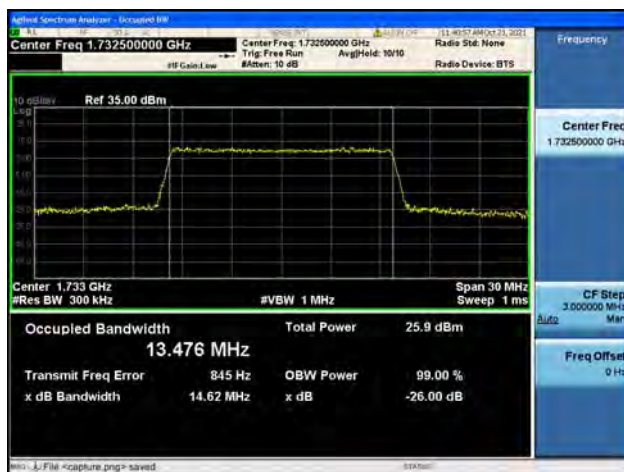
Band4 / 15MHz / Low CH / 64QAM



Band4 / 15MHz / Mid CH / QPSK



Band4 / 15MHz / Mid CH / 16QAM

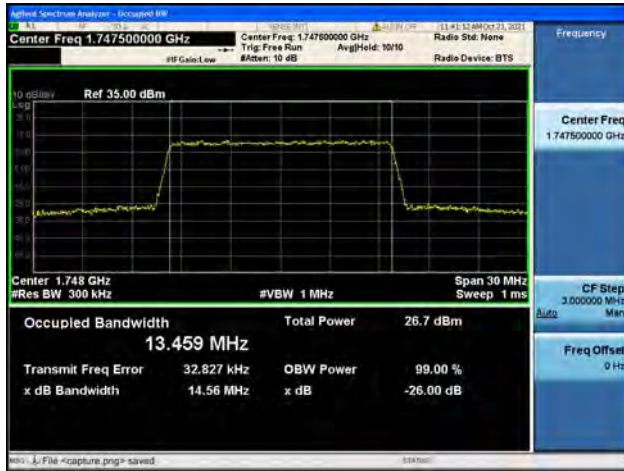


Band4 / 15MHz / Mid CH / 64QAM

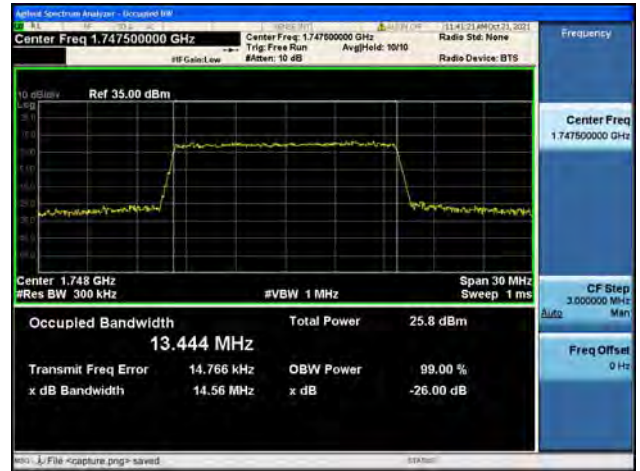




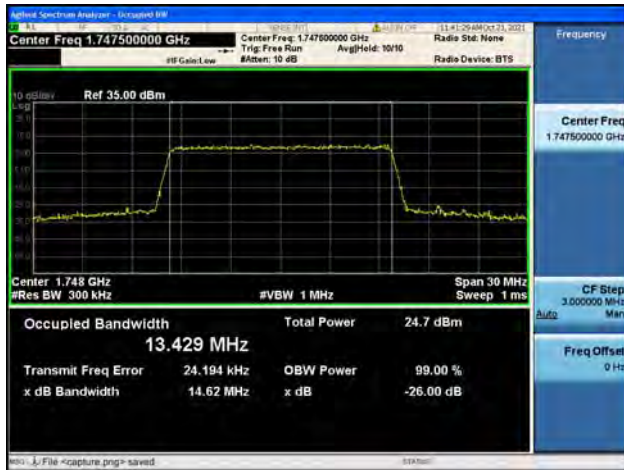
Band4 / 15MHz / High CH / QPSK



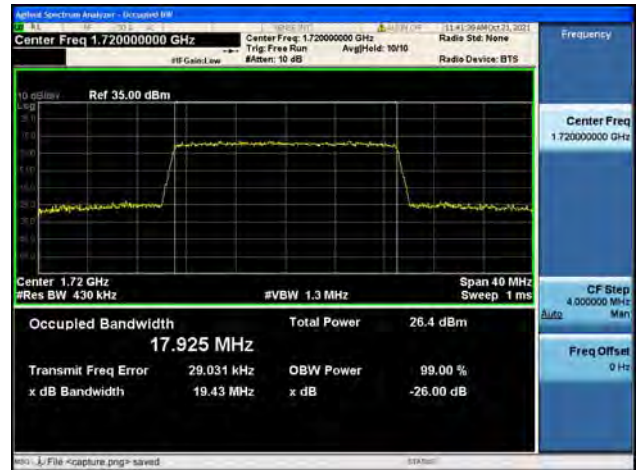
Band4 / 15MHz / High CH / 16QAM



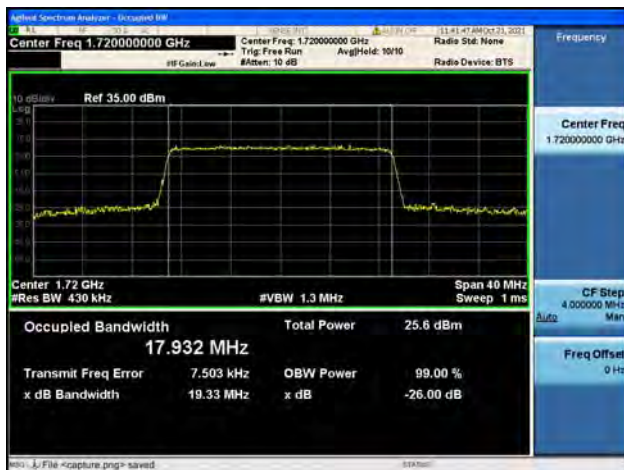
Band4 / 15MHz / High CH / 64QAM



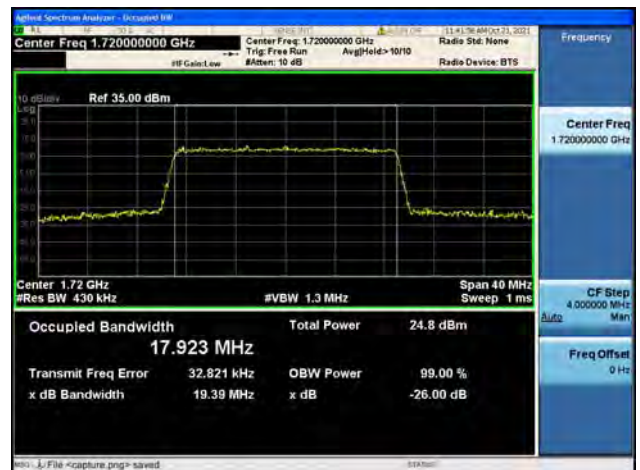
Band4 / 20MHz / Low CH / QPSK



Band4 / 20MHz / Low CH / 16QAM

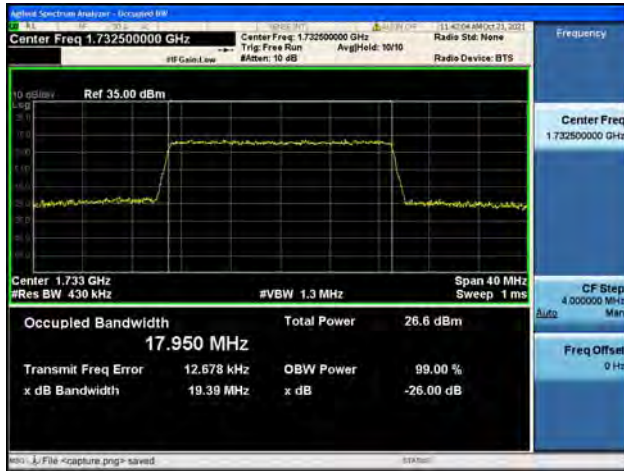


Band4 / 20MHz / Low CH / 64QAM

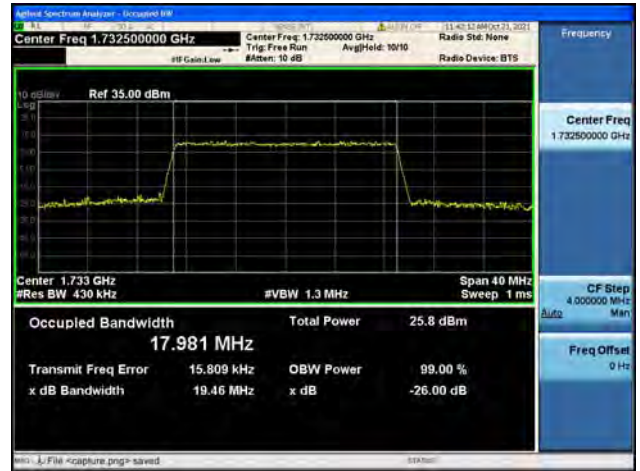




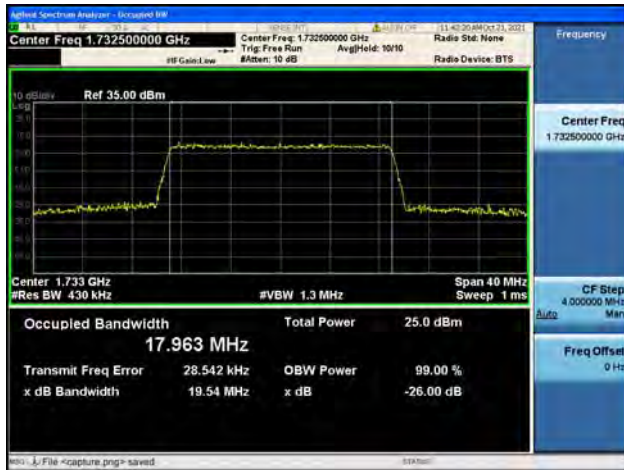
Band4 / 20MHz / Mid CH / QPSK



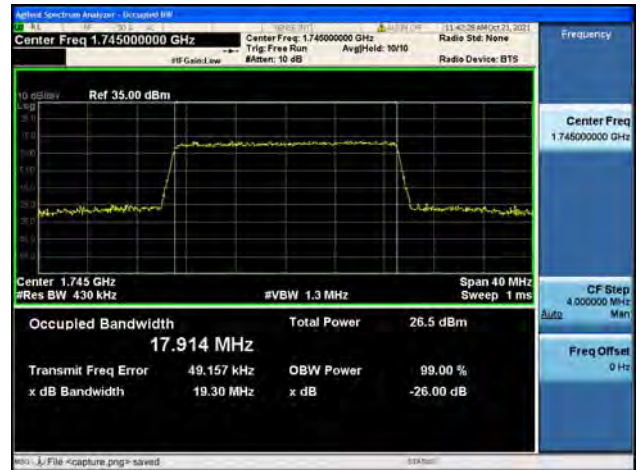
Band4 / 20MHz / Mid CH / 16QAM



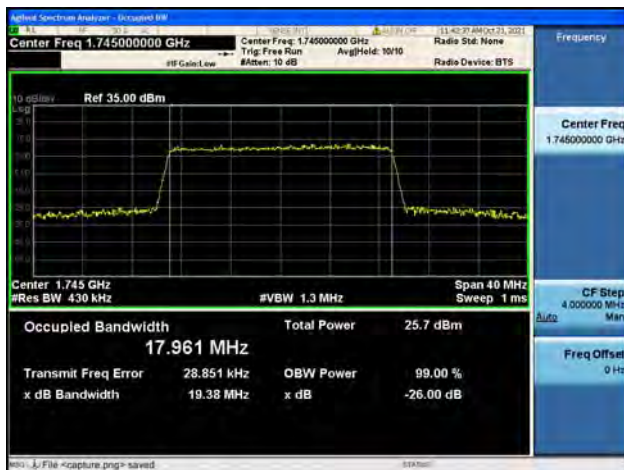
Band4 / 20MHz / Mid CH / 64QAM



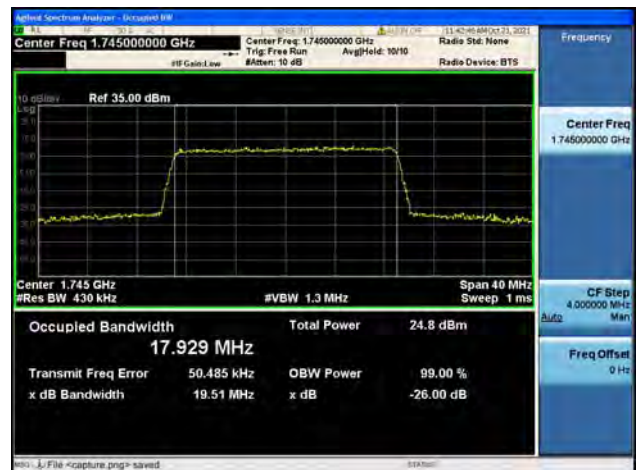
Band4 / 20MHz / High CH / QPSK



Band4 / 20MHz / High CH / 16QAM

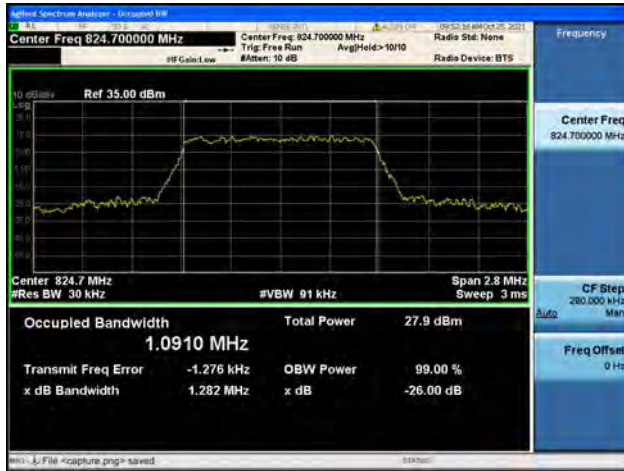


Band4 / 20MHz / High CH / 64QAM

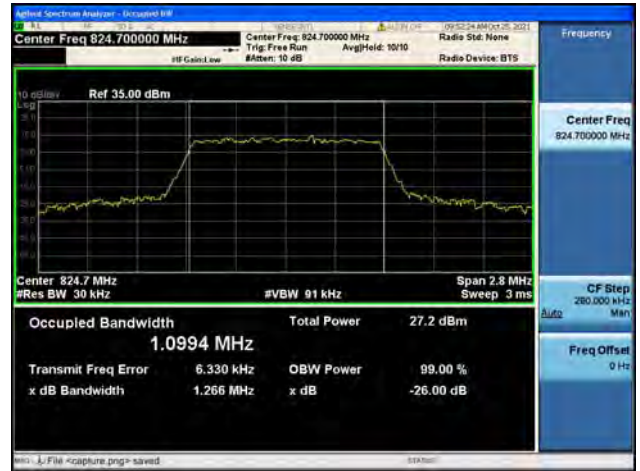




Band5 / 1.4MHz / Low CH / QPSK



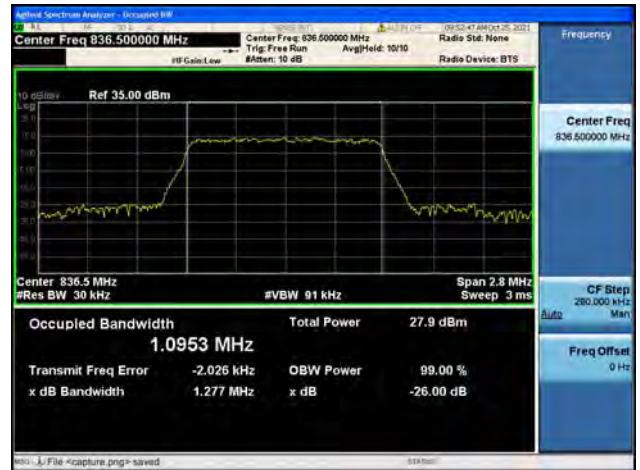
Band5 / 1.4MHz / Low CH / 16QAM



Band5 / 1.4MHz / Low CH / 64QAM



Band5 / 1.4MHz / Mid CH / QPSK



Band5 / 1.4MHz / Mid CH / 16QAM



Band5 / 1.4MHz / Mid CH / 64QAM



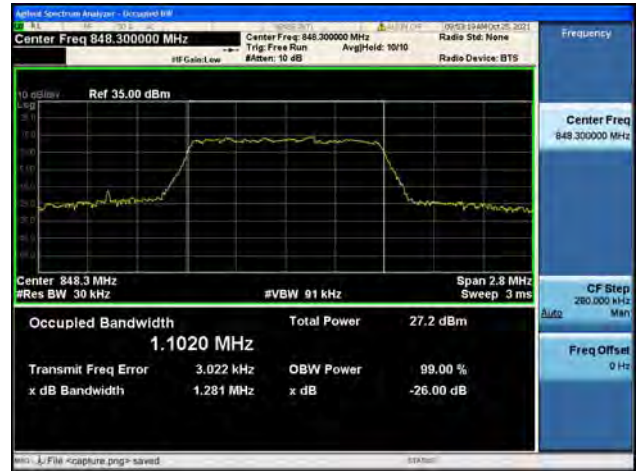




Band5 / 1.4MHz / High CH / QPSK



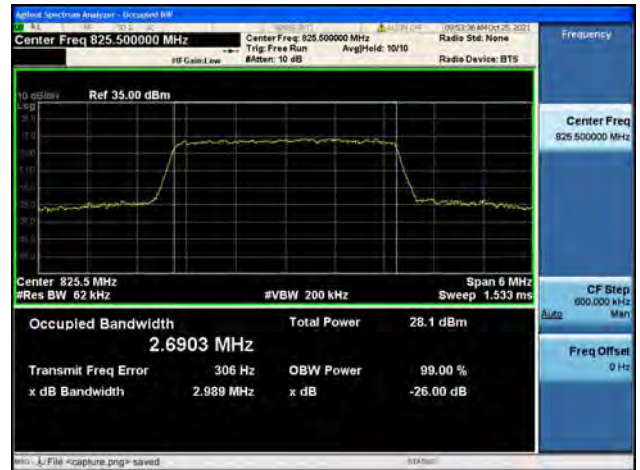
Band5 / 1.4MHz / High CH / 16QAM



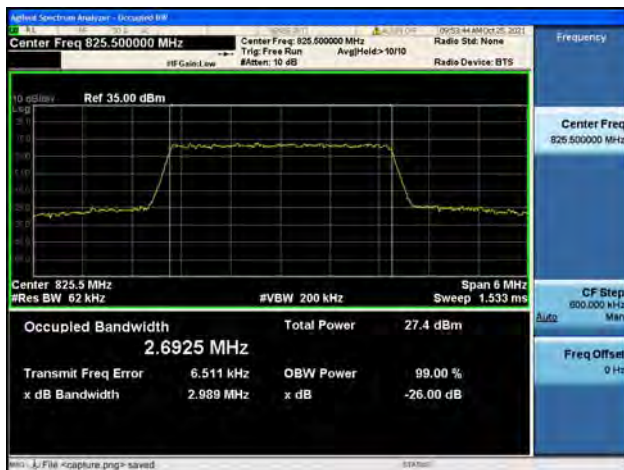
Band5 / 1.4MHz / High CH / 64QAM



Band5 / 3MHz / Low CH / QPSK



Band5 / 3MHz / Low CH / 16QAM

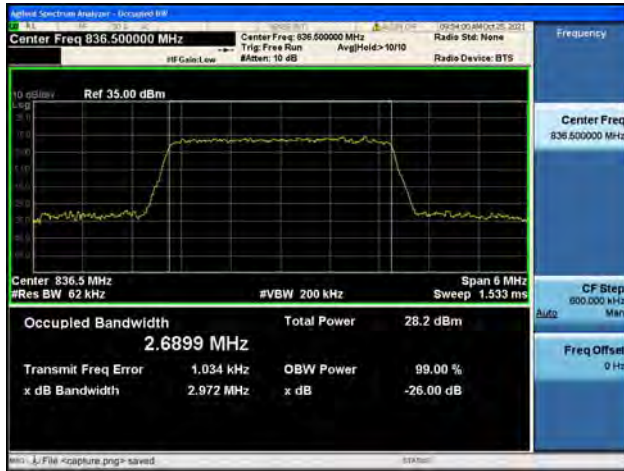


Band5 / 3MHz / Low CH / 64QAM

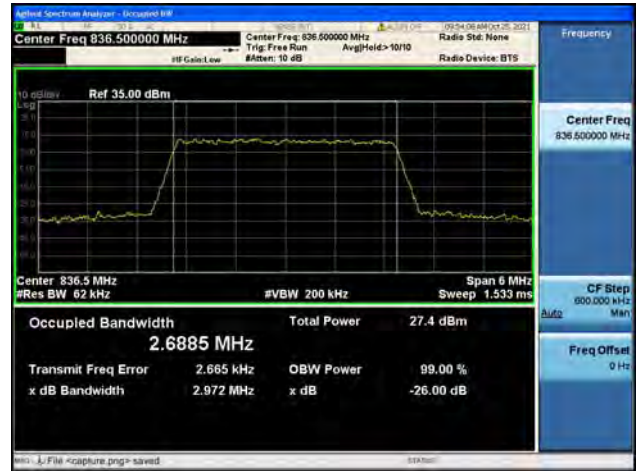




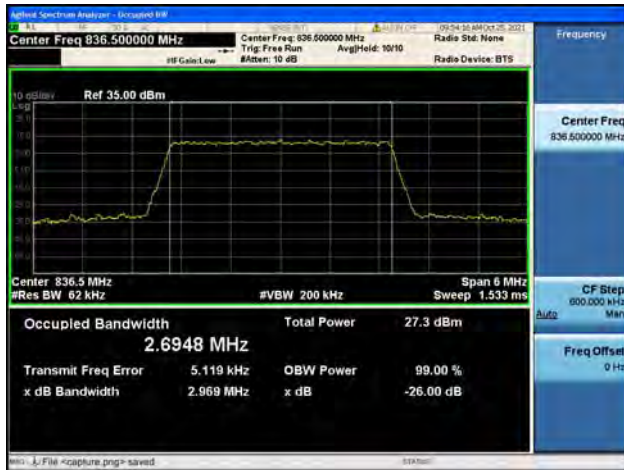
Band5 / 3MHz / Mid CH / QPSK



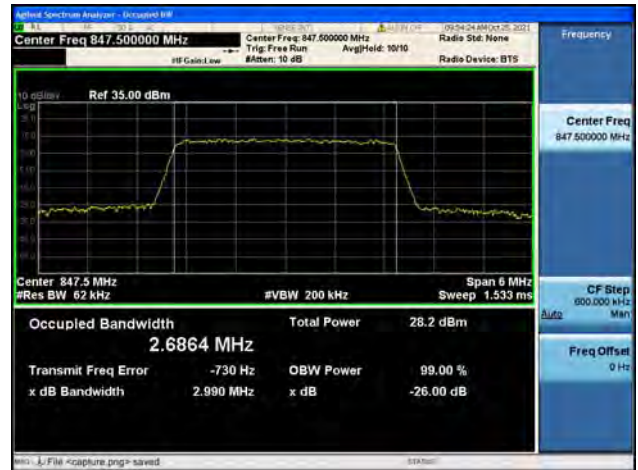
Band5 / 3MHz / Mid CH / 16QAM



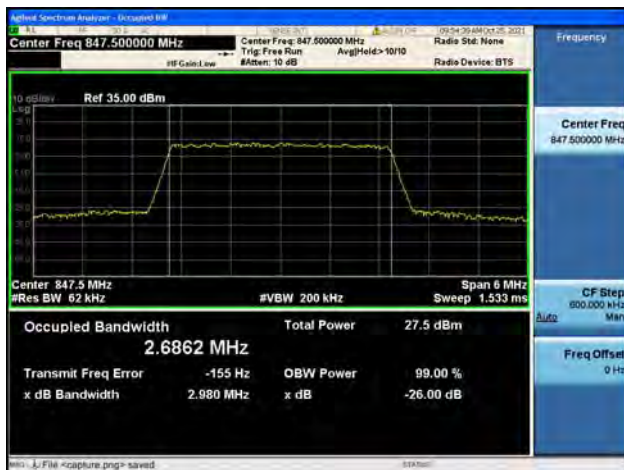
Band5 / 3MHz / Mid CH / 64QAM



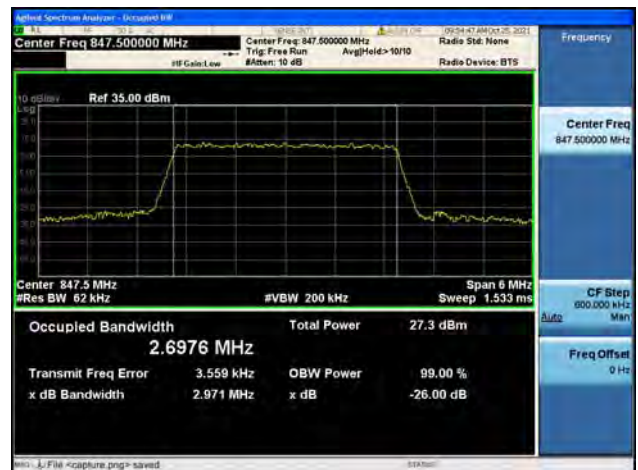
Band5 / 3MHz / High CH / QPSK



Band5 / 3MHz / High CH / 16QAM



Band5 / 3MHz / High CH / 64QAM





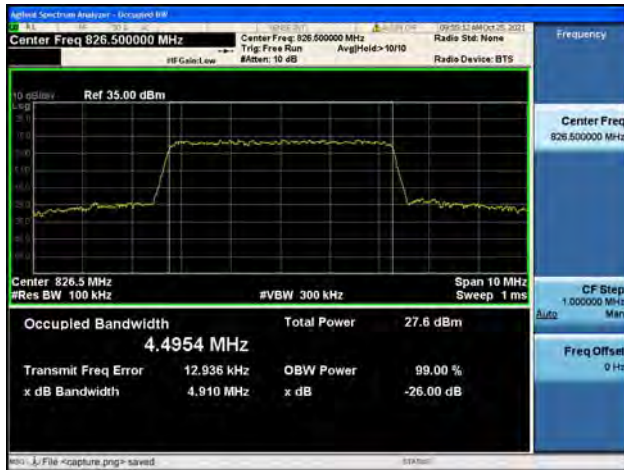
Band5 / 5MHz / Low CH / QPSK



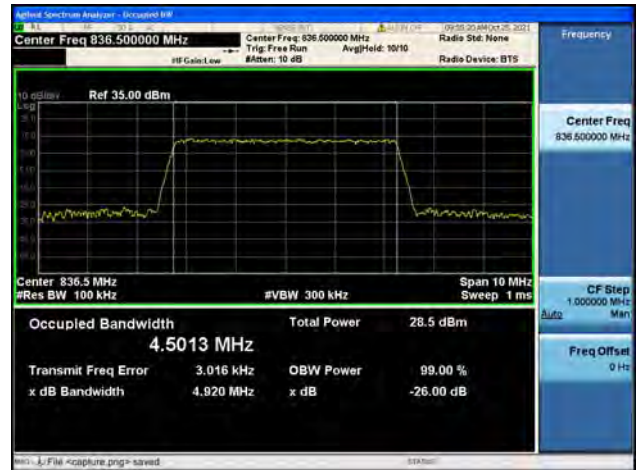
Band5 / 5MHz / Low CH / 16QAM



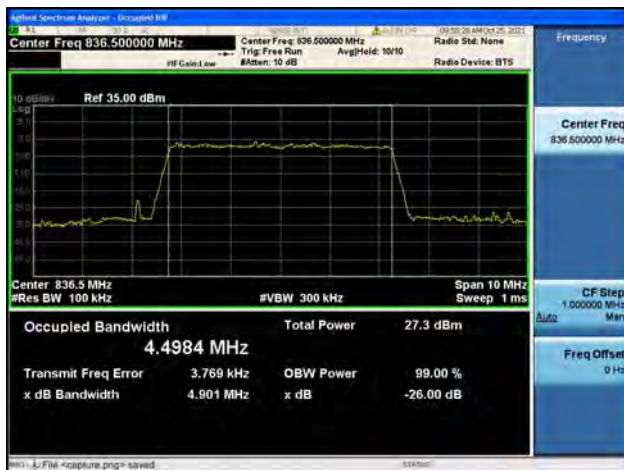
Band5 / 5MHz / Low CH / 64QAM



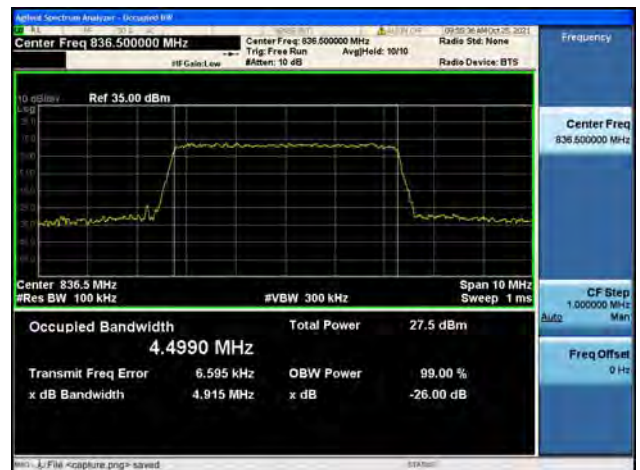
Band5 / 5MHz / Mid CH / QPSK



Band5 / 5MHz / Mid CH / 16QAM

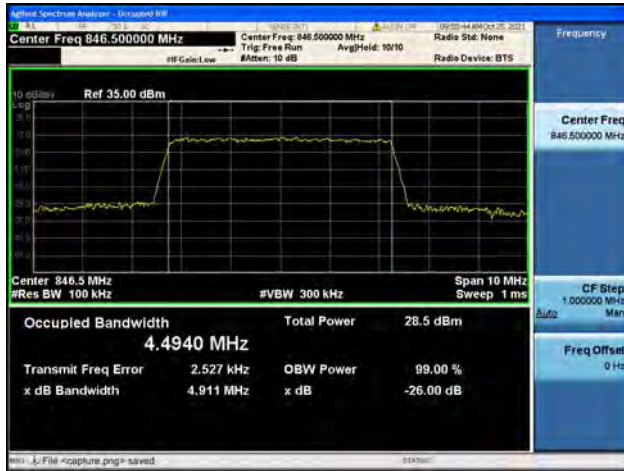


Band5 / 5MHz / Mid CH / 64QAM

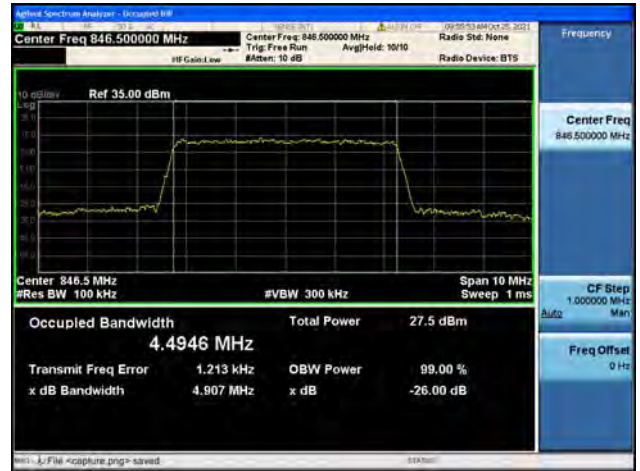




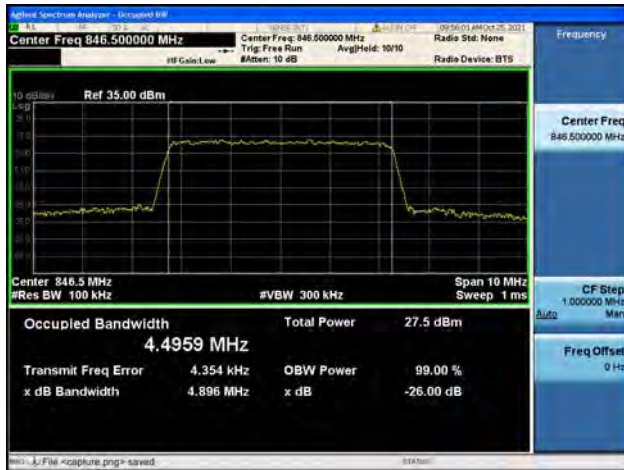
Band5 / 5MHz / High CH / QPSK



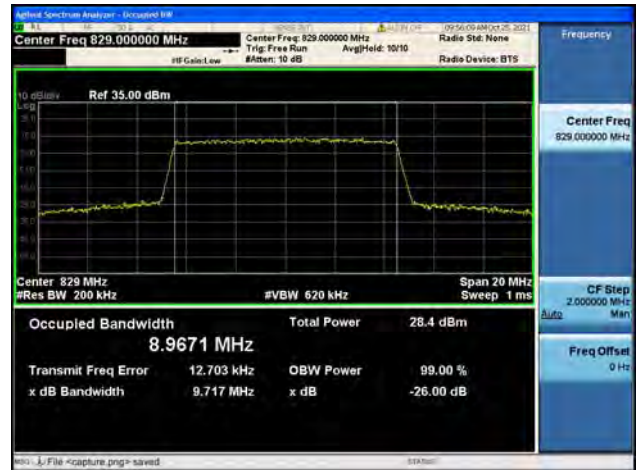
Band5 / 5MHz / High CH / 16QAM



Band5 / 5MHz / High CH / 64QAM



Band5 / 10MHz / Low CH / QPSK



Band5 / 10MHz / Low CH / 16QAM

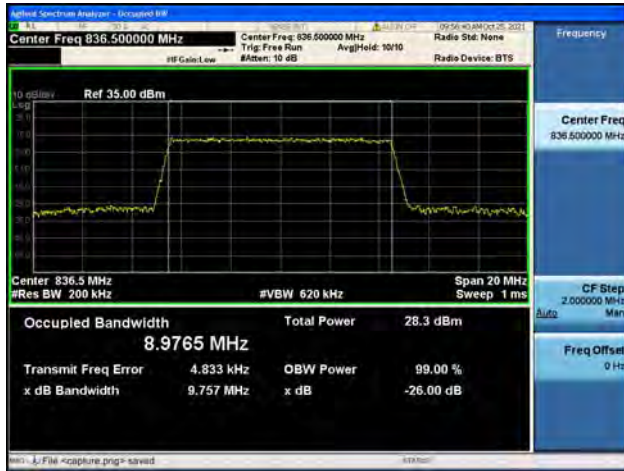


Band5 / 10MHz / Low CH / 64QAM

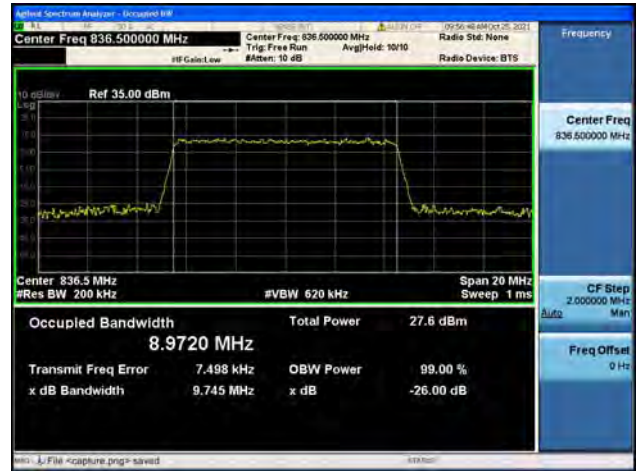




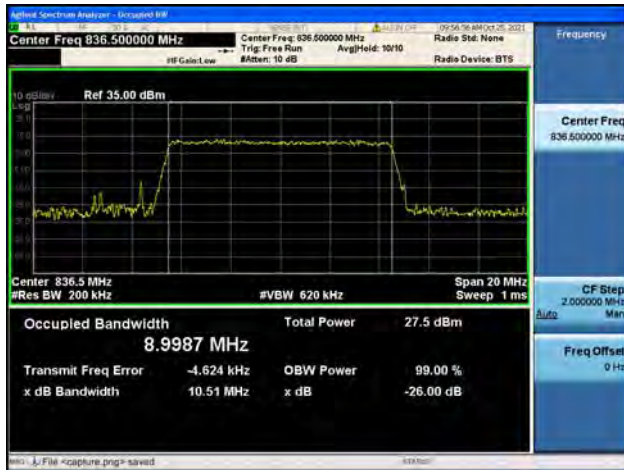
Band5 / 10MHz / Mid CH / QPSK



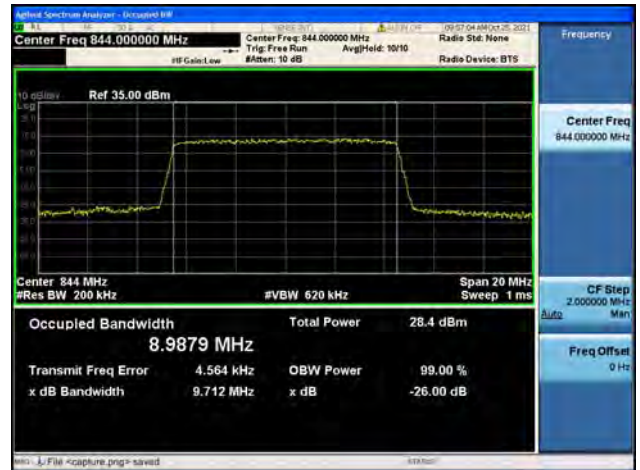
Band5 / 10MHz / Mid CH / 16QAM



Band5 / 10MHz / Mid CH / 64QAM



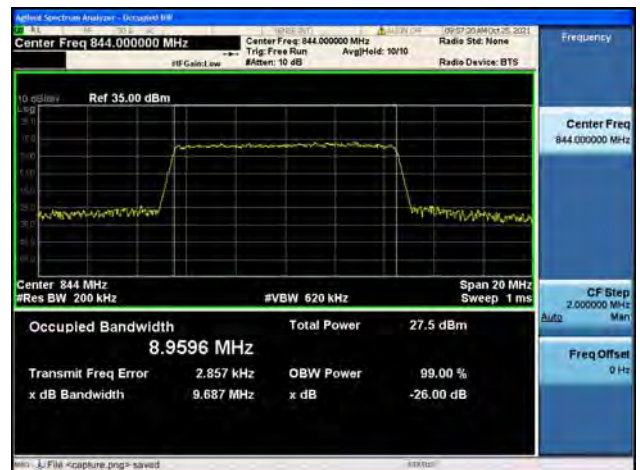
Band5 / 10MHz / High CH / QPSK

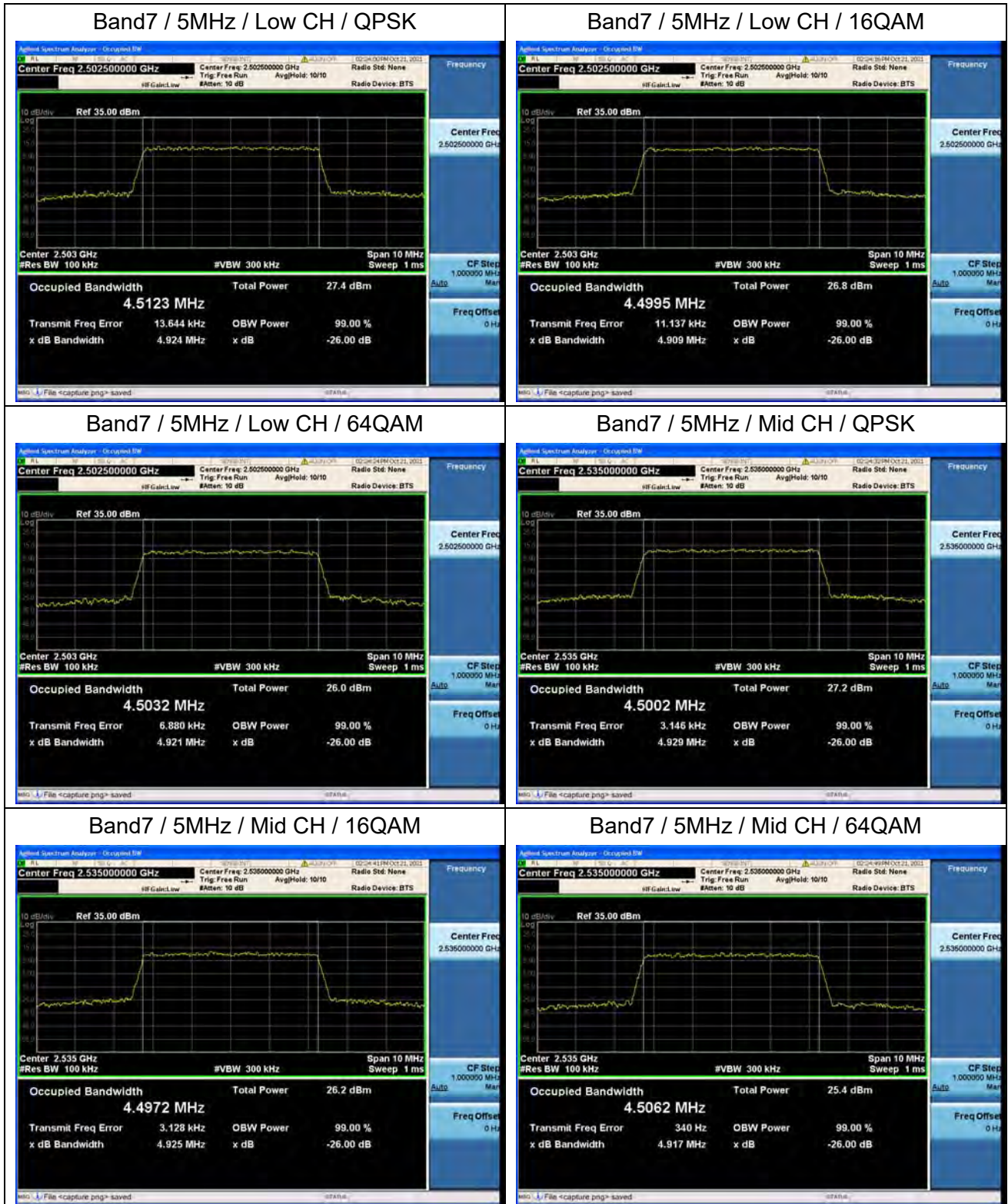


Band5 / 10MHz / High CH / 16QAM



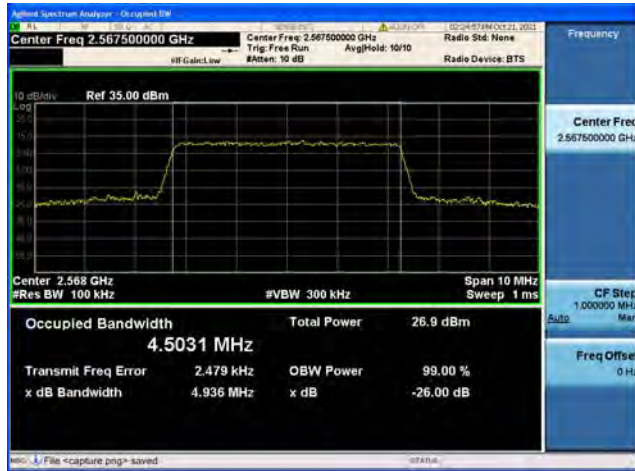
Band5 / 10MHz / High CH / 64QAM



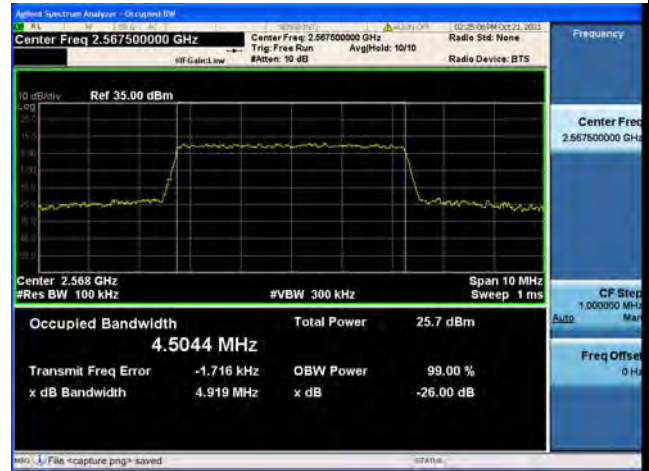




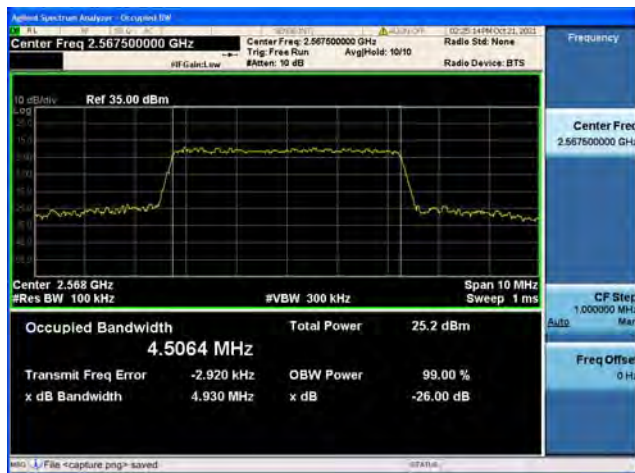
Band7 / 5MHz / High CH / QPSK



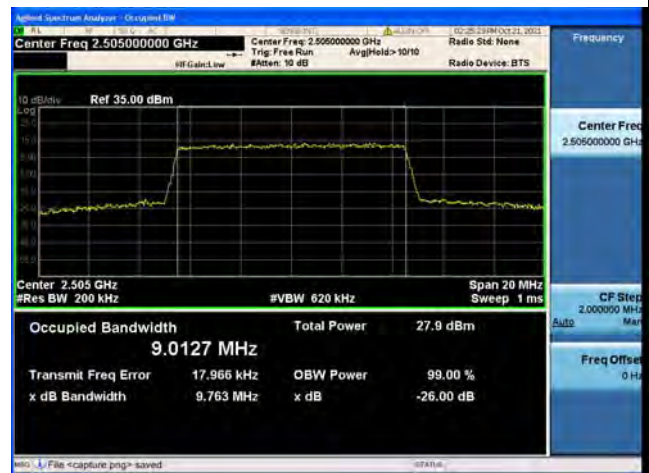
Band7 / 5MHz / High CH / 16QAM



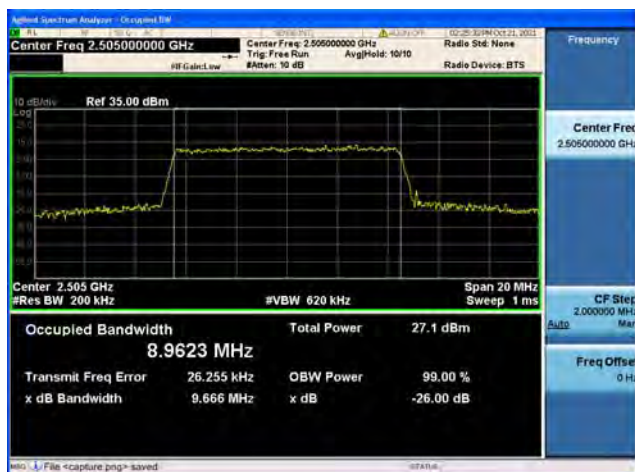
Band7 / 5MHz / High CH / 64QAM



Band7 / 10MHz / Low CH / QPSK



Band7 / 10MHz / Low CH / 16QAM

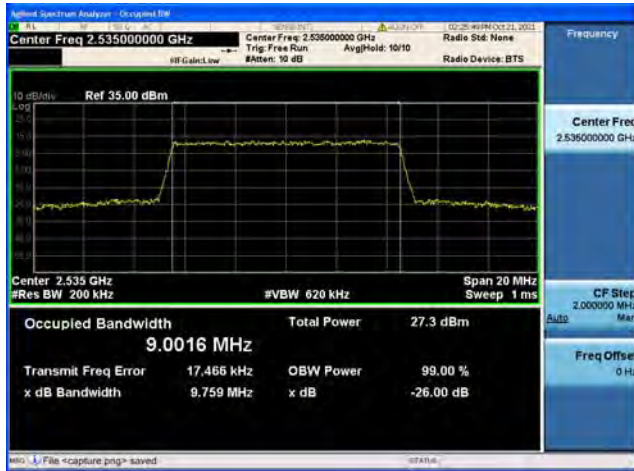


Band7 / 10MHz / Low CH / 64QAM





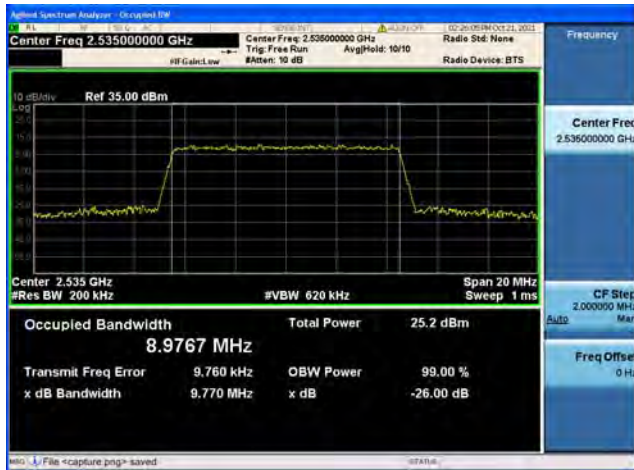
Band7 / 10MHz / Mid CH / QPSK



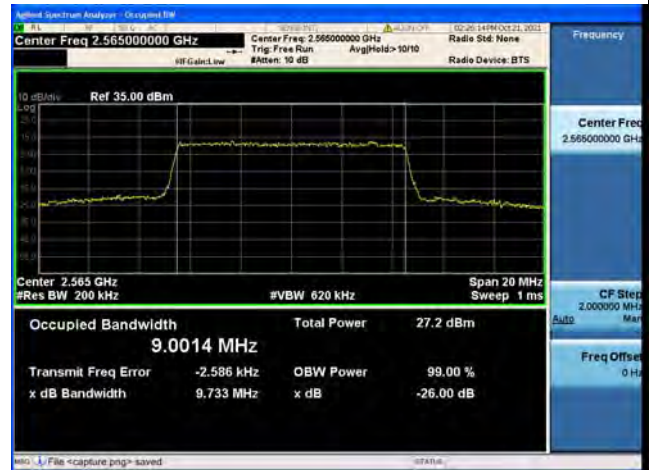
Band7 / 10MHz / Mid CH / 16QAM



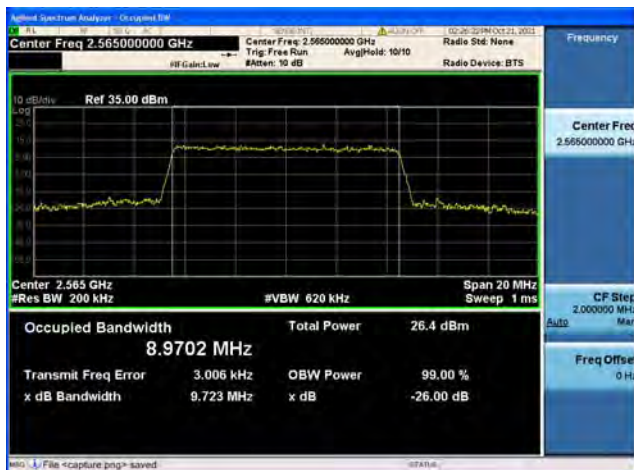
Band7 / 10MHz / Mid CH / 64QAM



Band7 / 10MHz / High CH / QPSK



Band7 / 10MHz / High CH / 16QAM



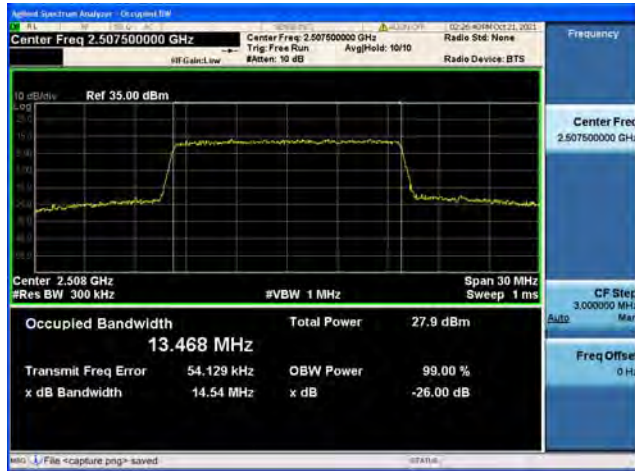
Band7 / 10MHz / High CH / 64QAM



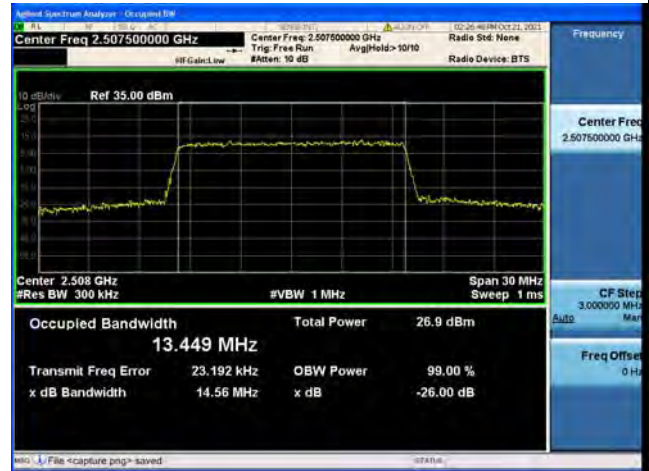




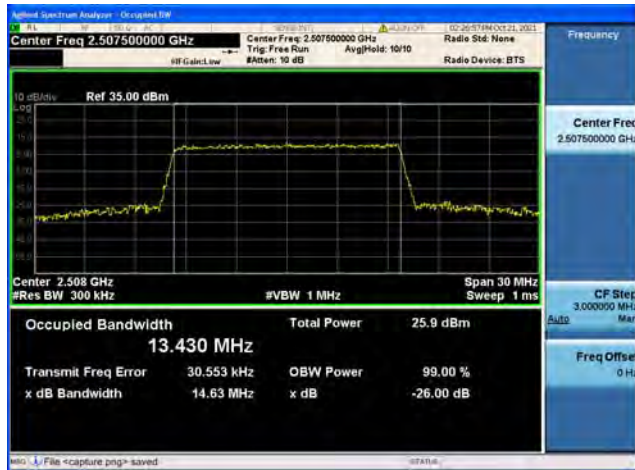
Band7 / 15MHz / Low CH / QPSK



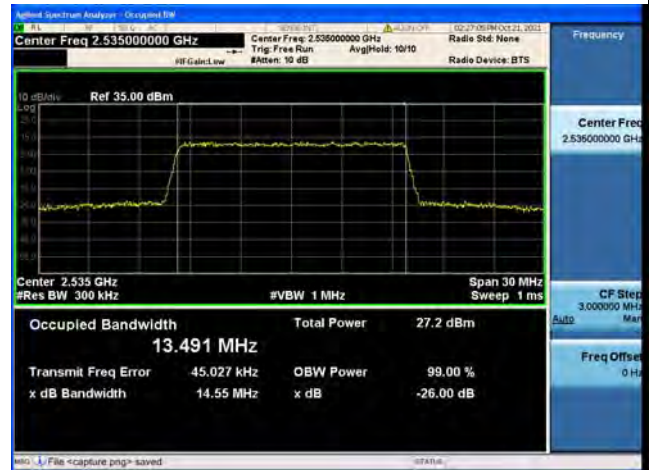
Band7 / 15MHz / Low CH / 16QAM



Band7 / 15MHz / Low CH / 64QAM



Band7 / 15MHz / Mid CH / QPSK



Band7 / 15MHz / Mid CH / 16QAM

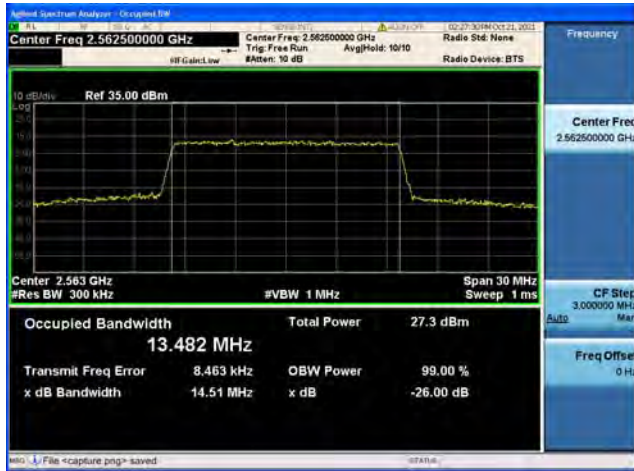


Band7 / 15MHz / Mid CH / 64QAM

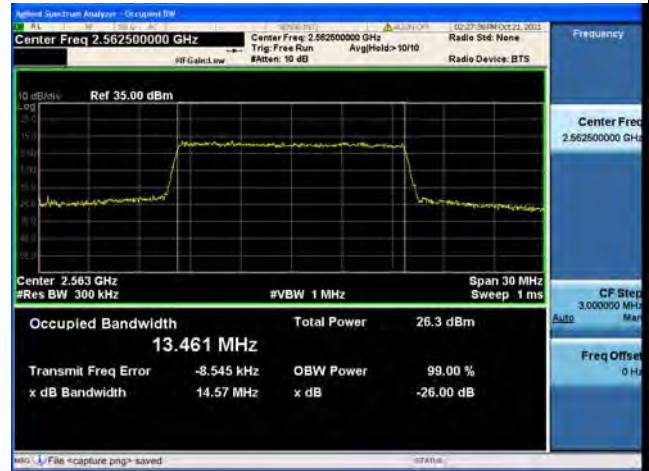




Band7 / 15MHz / High CH / QPSK



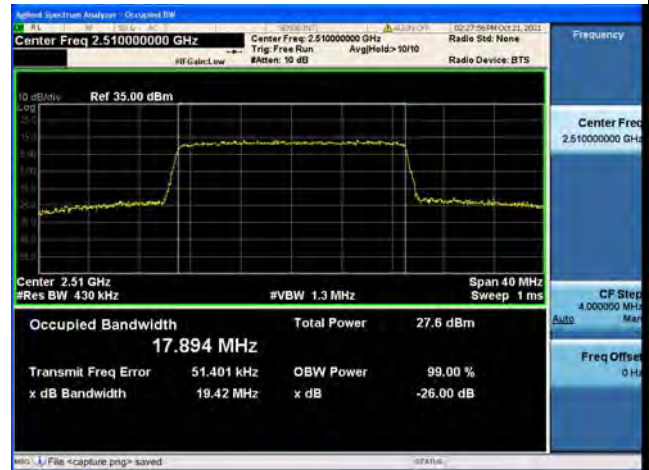
Band7 / 15MHz / High CH / 16QAM



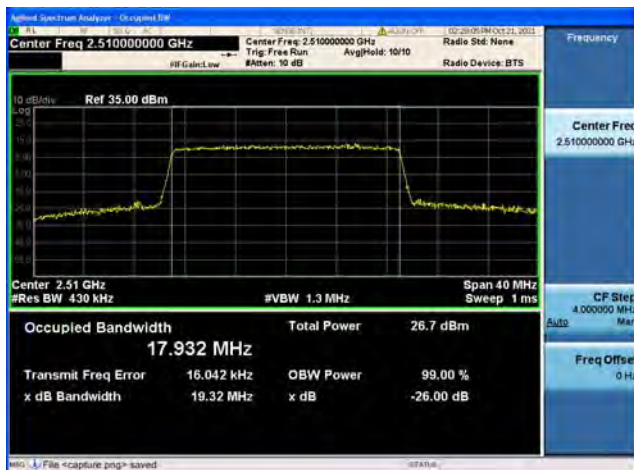
Band7 / 15MHz / High CH / 64QAM



Band7 / 20MHz / Low CH / QPSK



Band7 / 20MHz / Low CH / 16QAM

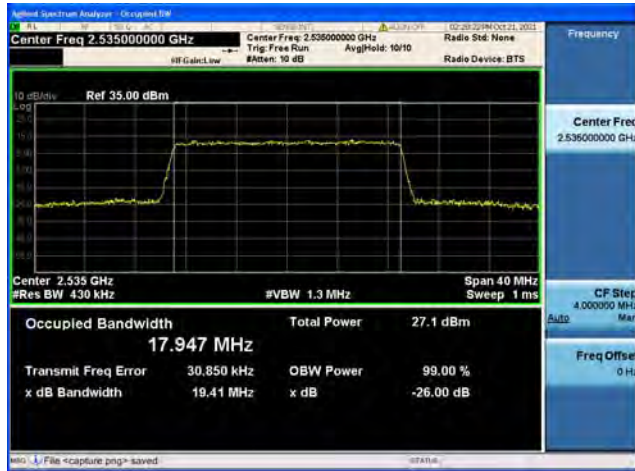


Band7 / 20MHz / Low CH / 64QAM

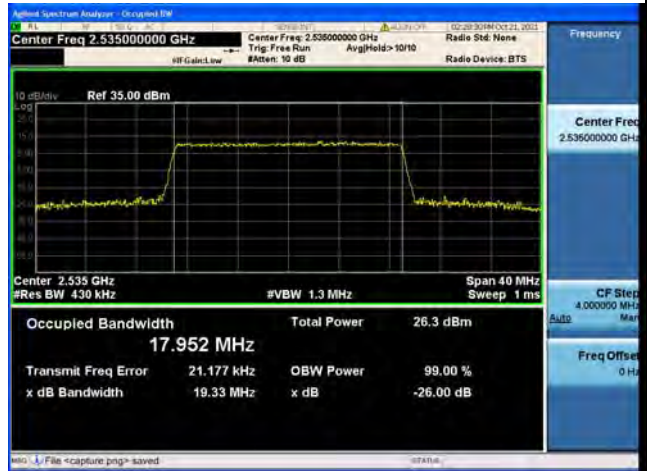




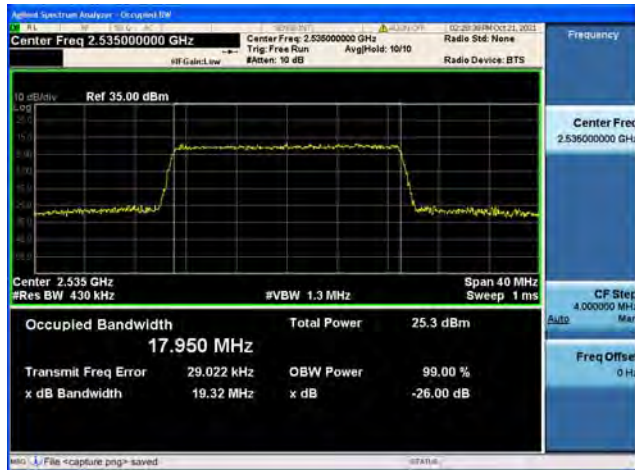
Band7 / 20MHz / Mid CH / QPSK



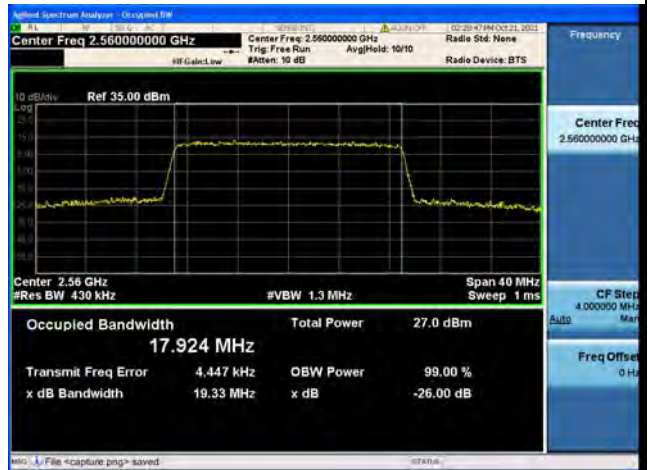
Band7 / 20MHz / Mid CH / 16QAM



Band7 / 20MHz / Mid CH / 64QAM



Band7 / 20MHz / High CH / QPSK



Band7 / 20MHz / High CH / 16QAM

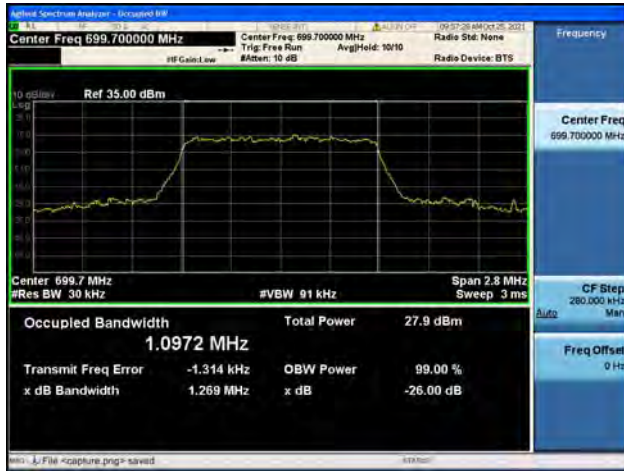


Band7 / 20MHz / High CH / 64QAM





Band12 / 1.4MHz / Low CH / QPSK



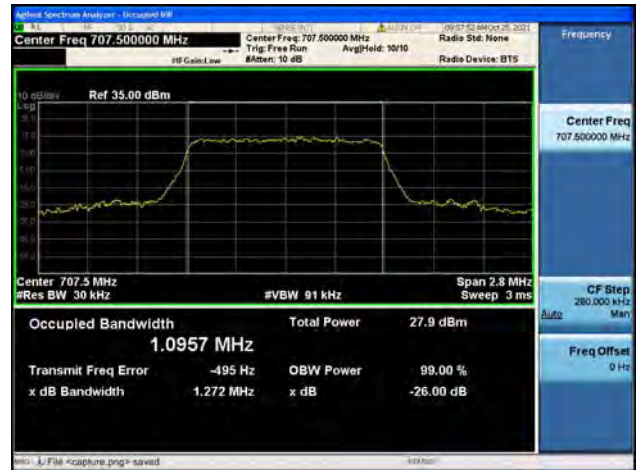
Band12 / 1.4MHz / Low CH / 16QAM



Band12 / 1.4MHz / Low CH / 64QAM



Band12 / 1.4MHz / Mid CH / QPSK



Band12 / 1.4MHz / Mid CH / 16QAM

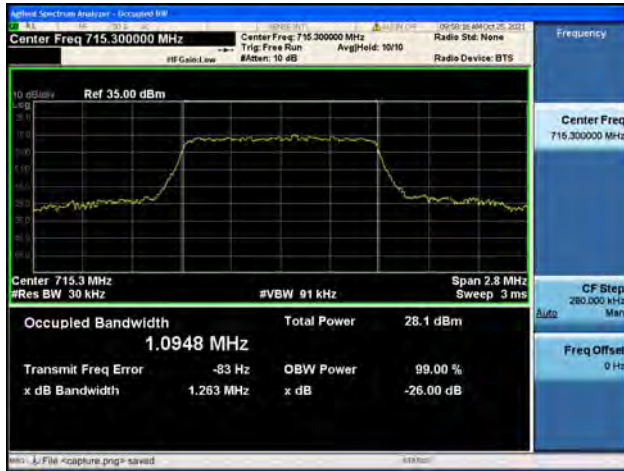


Band12 / 1.4MHz / Mid CH / 64QAM

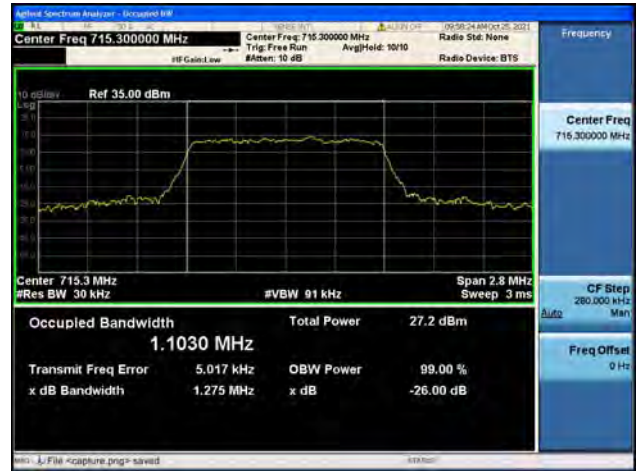




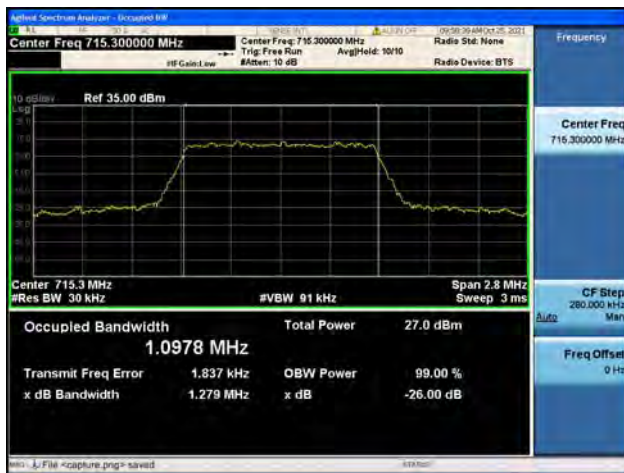
Band12 / 1.4MHz / High CH / QPSK



Band12 / 1.4MHz / High CH / 16QAM



Band12 / 1.4MHz / High CH / 64QAM



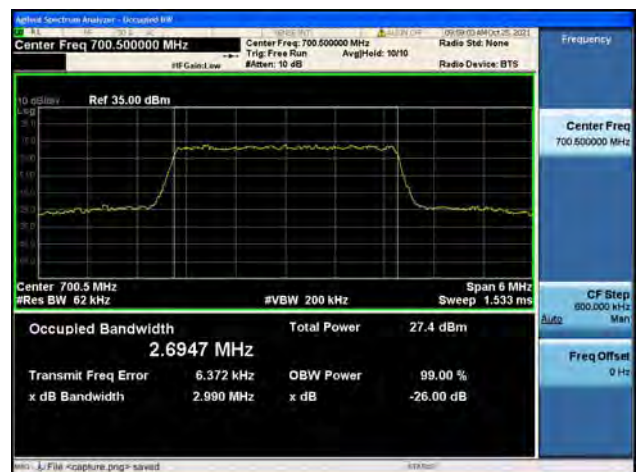
Band12 / 3MHz / Low CH / QPSK



Band12 / 3MHz / Low CH / 16QAM



Band12 / 3MHz / Low CH / 64QAM

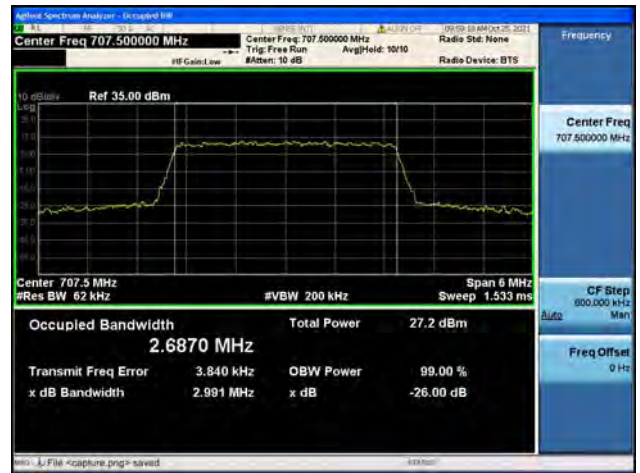




Band12 / 3MHz / Mid CH / QPSK



Band12 / 3MHz / Mid CH / 16QAM



Band12 / 3MHz / Mid CH / 64QAM



Band12 / 3MHz / High CH / QPSK



Band12 / 3MHz / High CH / 16QAM

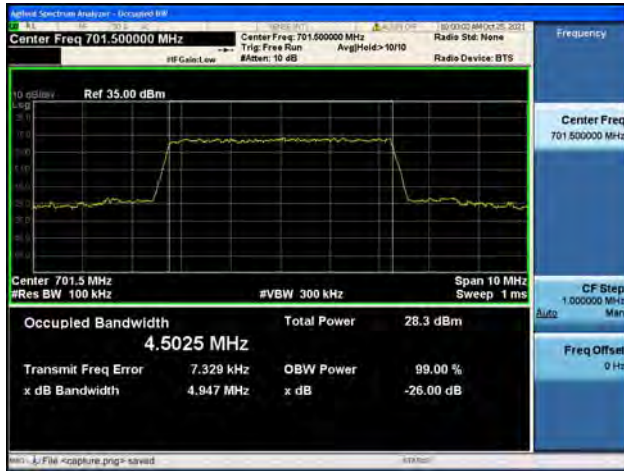


Band12 / 3MHz / High CH / 64QAM





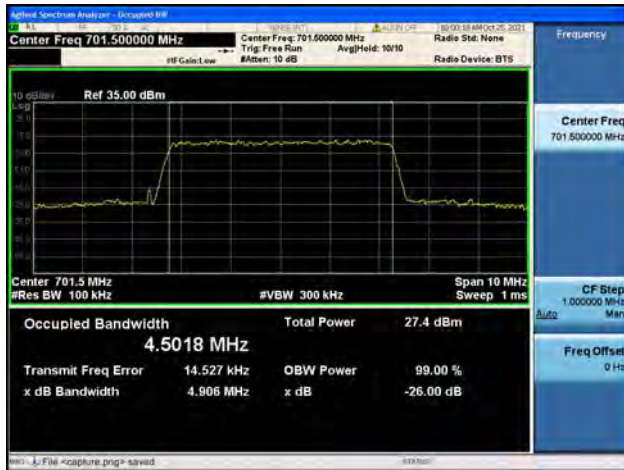
Band12 / 5MHz / Low CH / QPSK



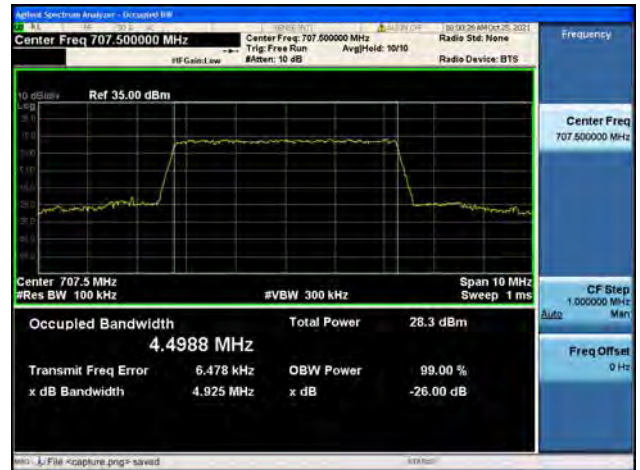
Band12 / 5MHz / Low CH / 16QAM



Band12 / 5MHz / Low CH / 64QAM



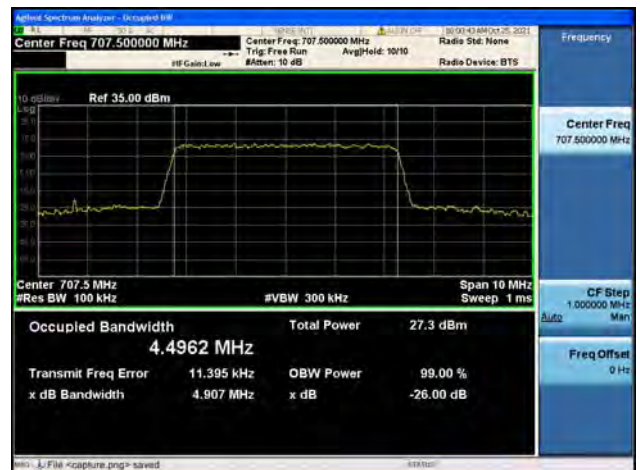
Band12 / 5MHz / Mid CH / QPSK



Band12 / 5MHz / Mid CH / 16QAM

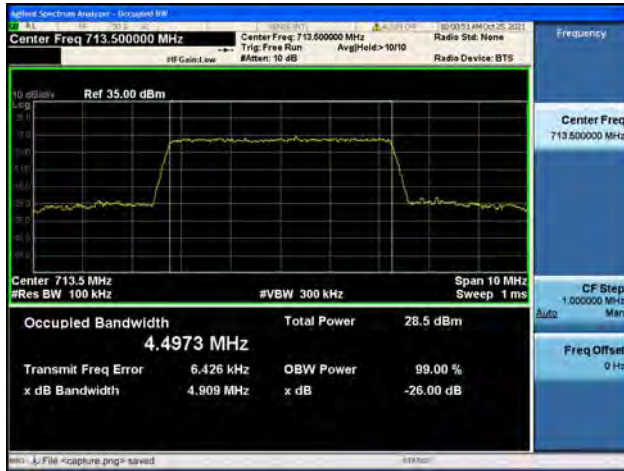


Band12 / 5MHz / Mid CH / 64QAM

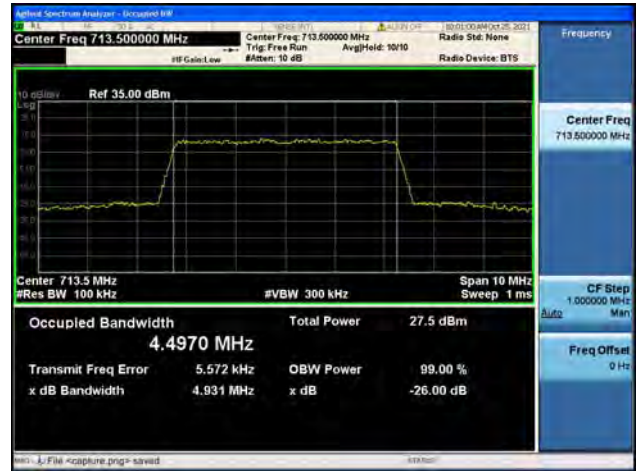




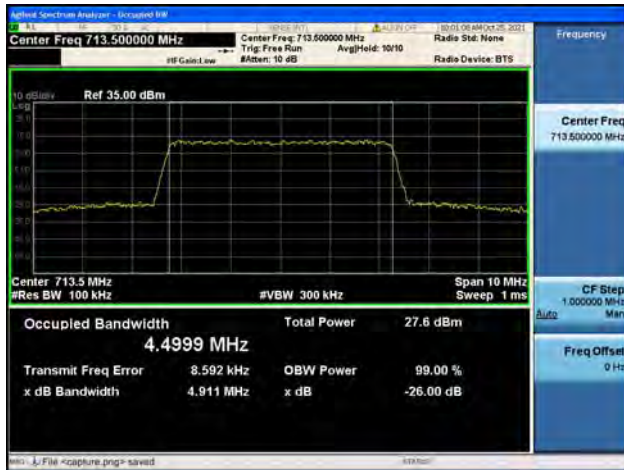
Band12 / 5MHz / High CH / QPSK



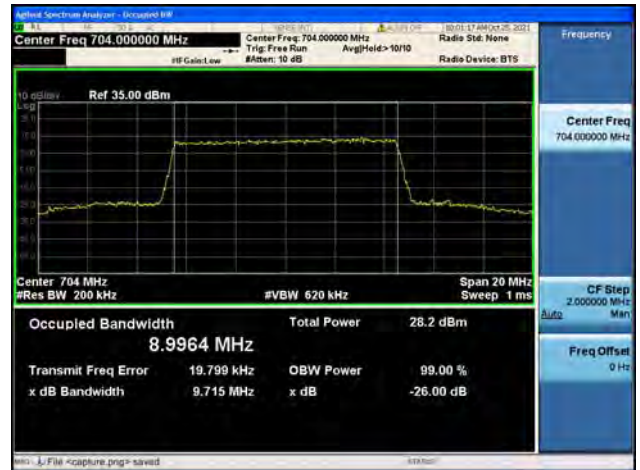
Band12 / 5MHz / High CH / 16QAM



Band12 / 5MHz / High CH / 64QAM



Band12 / 10MHz / Low CH / QPSK



Band12 / 10MHz / Low CH / 16QAM



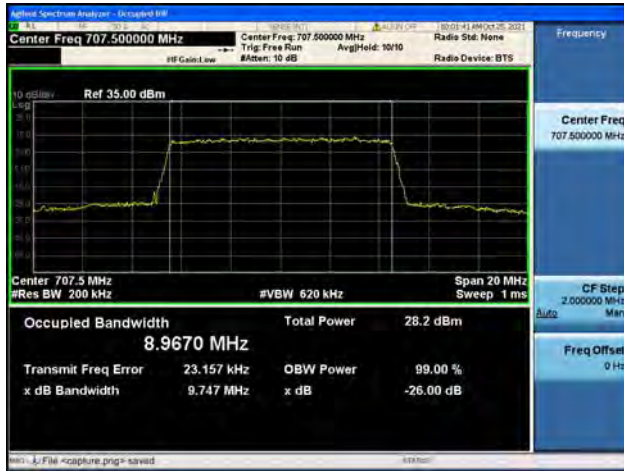
Band12 / 10MHz / Low CH / 64QAM







Band12 / 10MHz / Mid CH / QPSK



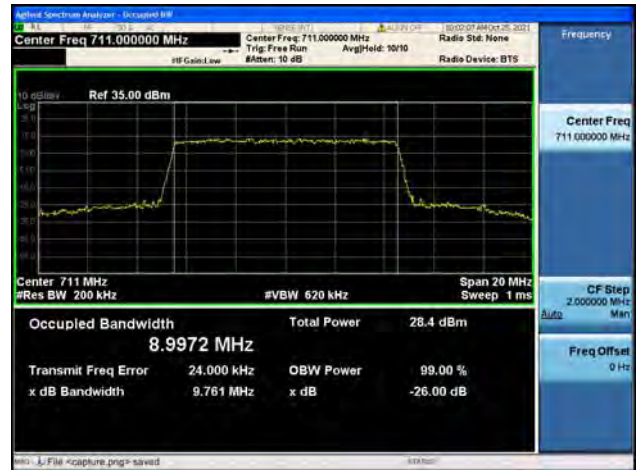
Band12 / 10MHz / Mid CH / 16QAM



Band12 / 10MHz / Mid CH / 64QAM



Band12 / 10MHz / High CH / QPSK



Band12 / 10MHz / High CH / 16QAM

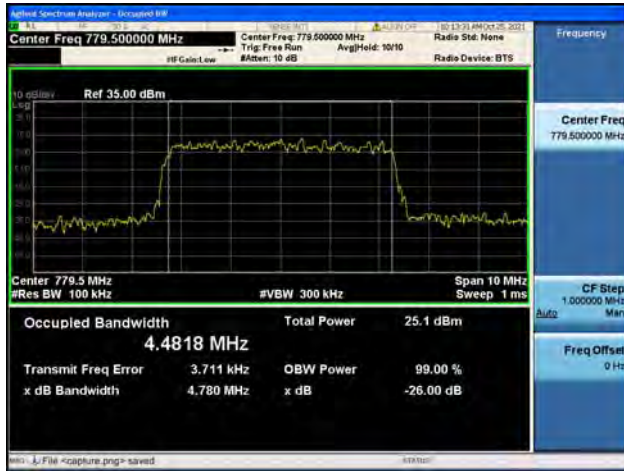


Band12 / 10MHz / High CH / 64QAM

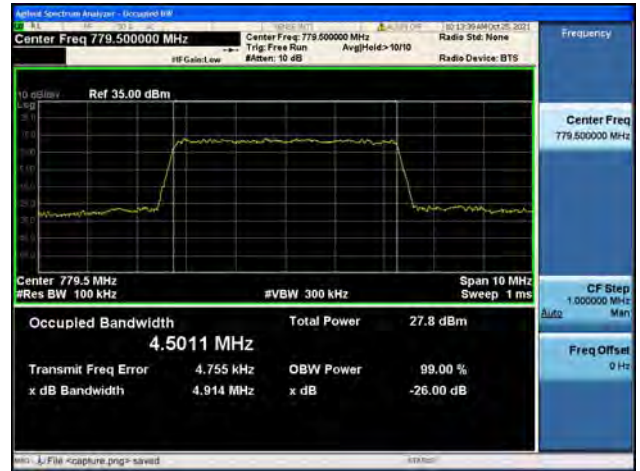




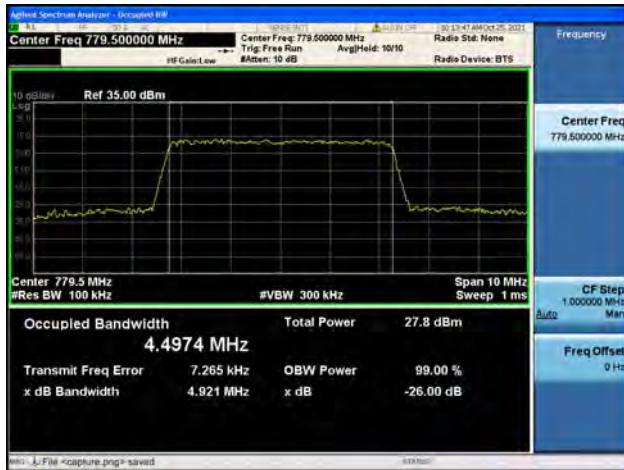
Band13 / 5MHz / Low CH / QPSK



Band13 / 5MHz / Low CH / 16QAM



Band13 / 5MHz / Low CH / 64QAM



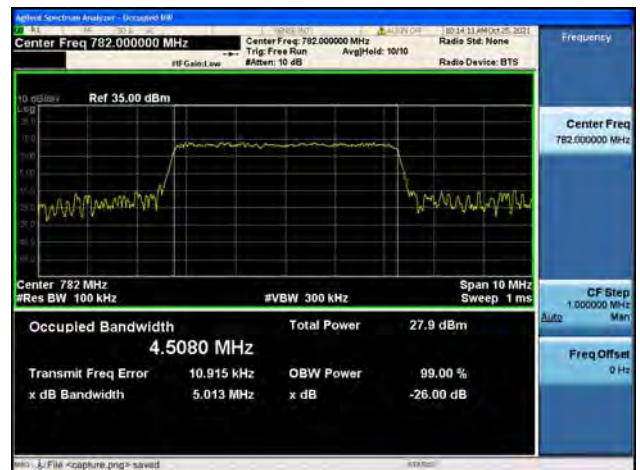
Band13 / 5MHz / Mid CH / QPSK



Band13 / 5MHz / Mid CH / 16QAM



Band13 / 5MHz / Mid CH / 64QAM

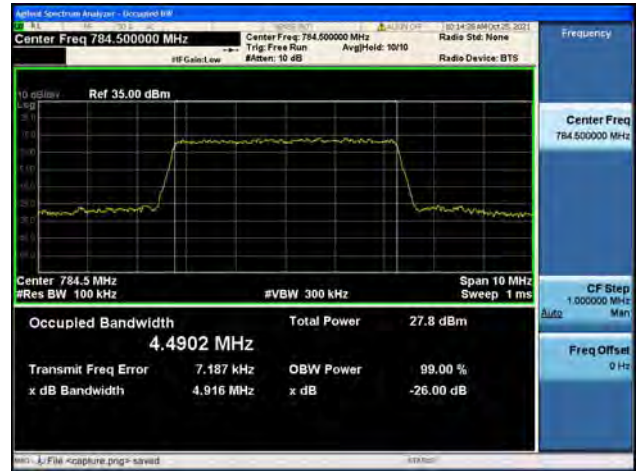




Band13 / 5MHz / High CH / QPSK



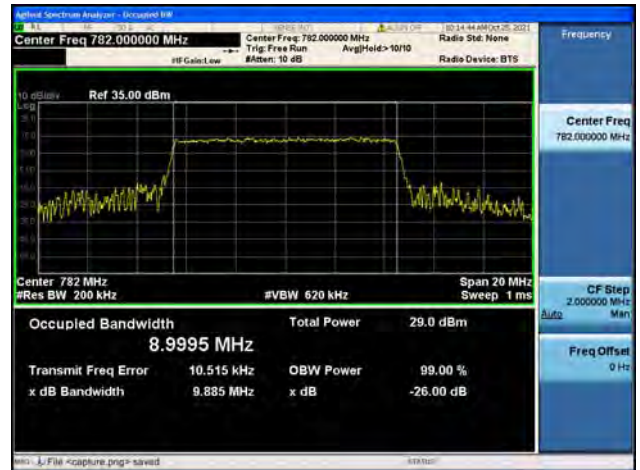
Band13 / 5MHz / High CH / 16QAM



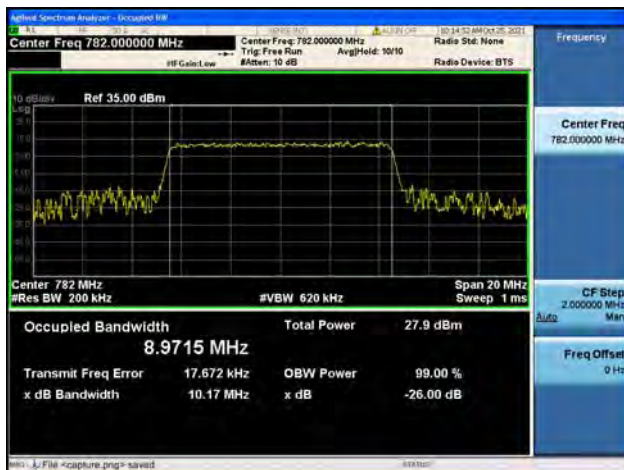
Band13 / 5MHz / High CH / 64QAM



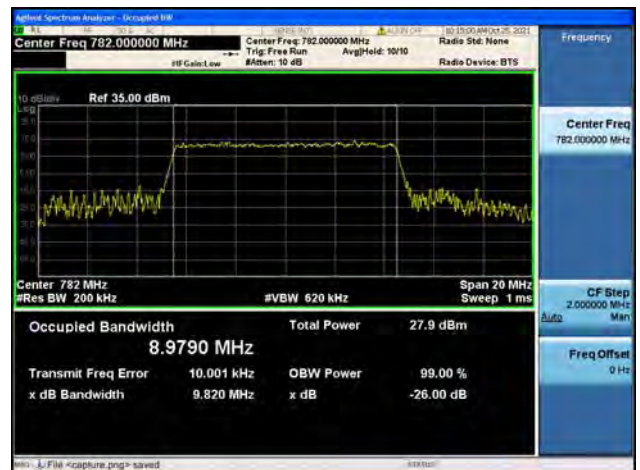
Band13 / 10MHz / Low CH / QPSK



Band13 / 10MHz / Low CH / 16QAM

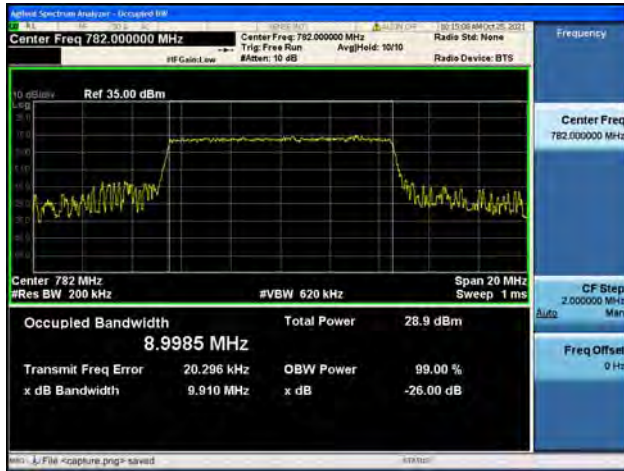


Band13 / 10MHz / Low CH / 64QAM

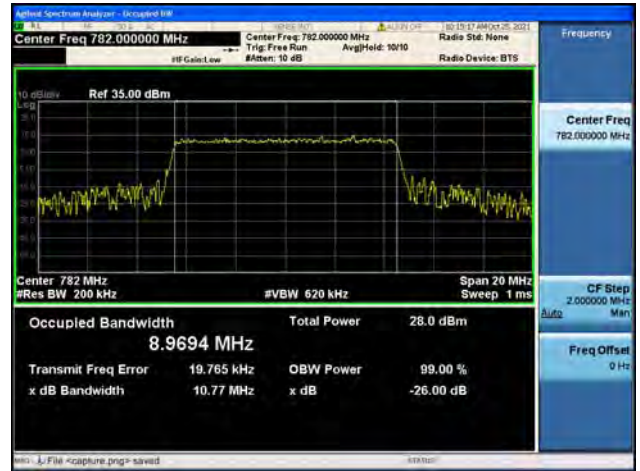




Band13 / 10MHz / Mid CH / QPSK



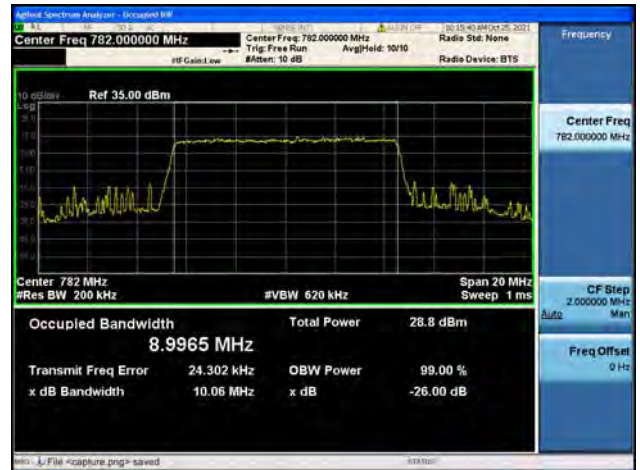
Band13 / 10MHz / Mid CH / 16QAM



Band13 / 10MHz / Mid CH / 64QAM



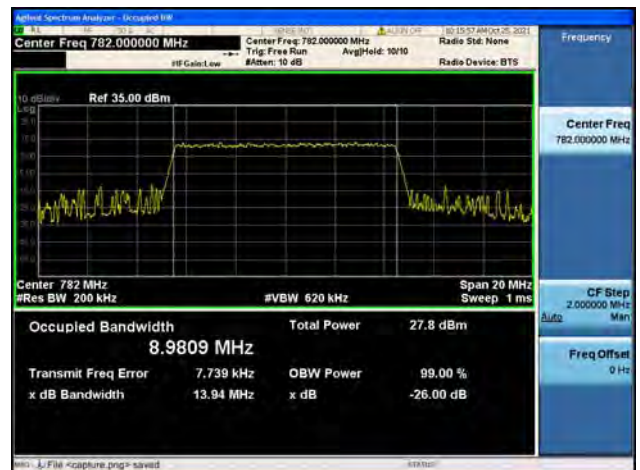
Band13 / 10MHz / High CH / QPSK



Band13 / 10MHz / High CH / 16QAM



Band13 / 10MHz / High CH / 64QAM





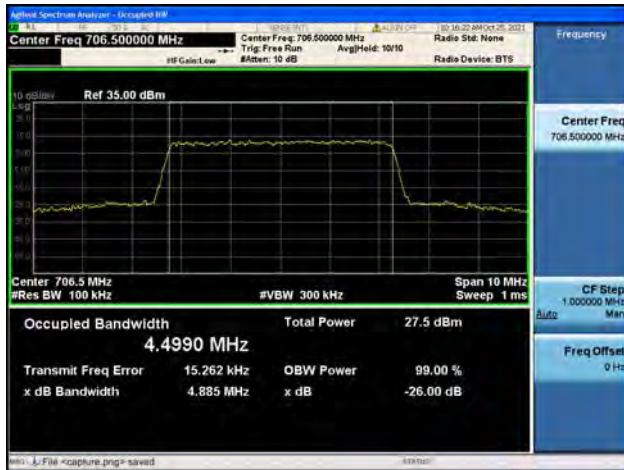
Band17 / 5MHz / Low CH / QPSK



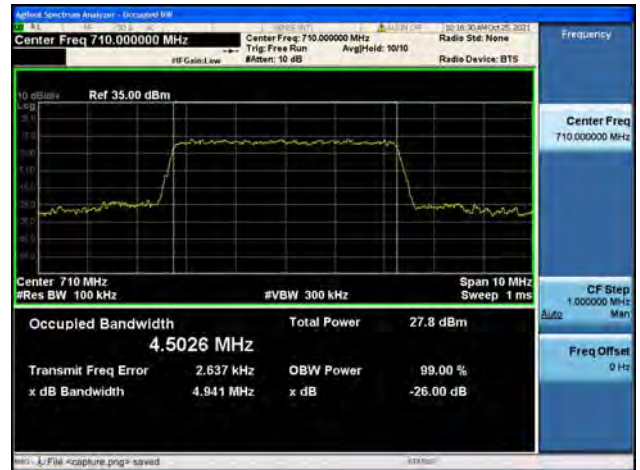
Band17 / 5MHz / Low CH / 16QAM



Band17 / 5MHz / Low CH / 64QAM



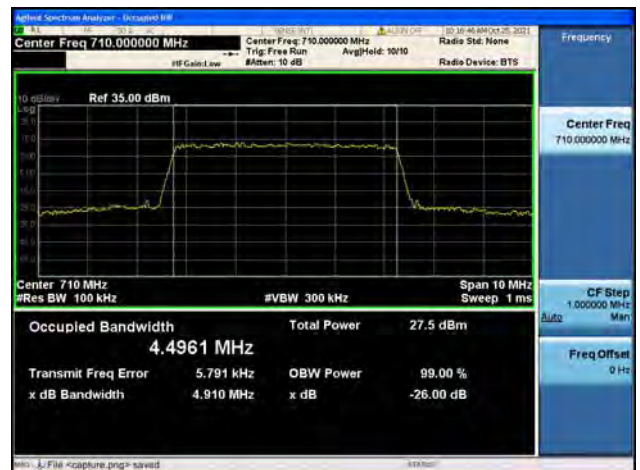
Band17 / 5MHz / Mid CH / QPSK



Band17 / 5MHz / Mid CH / 16QAM

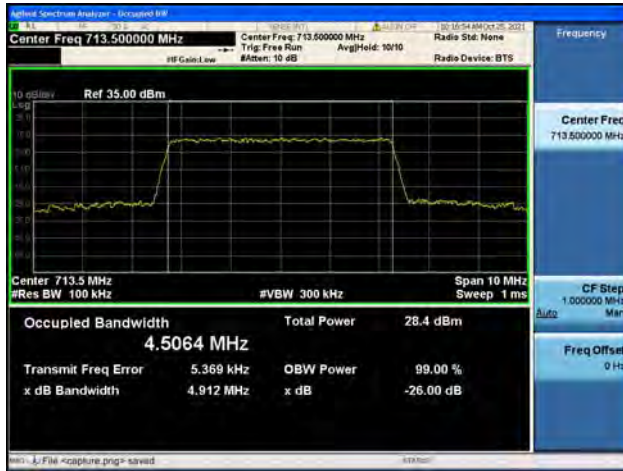


Band17 / 5MHz / Mid CH / 64QAM





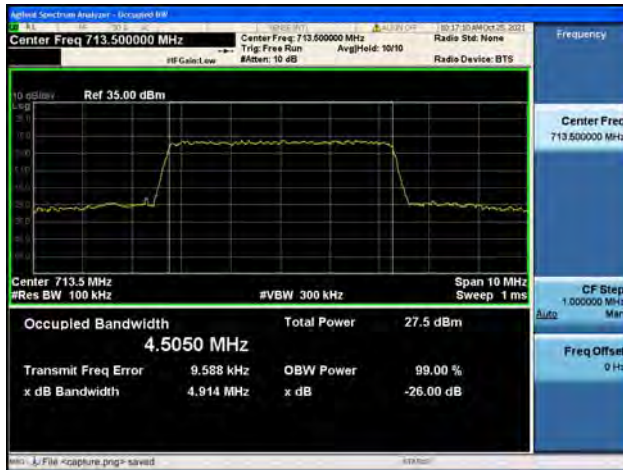
Band17 / 5MHz / High CH / QPSK



Band17 / 5MHz / High CH / 16QAM



Band17 / 5MHz / High CH / 64QAM



Band17 / 10MHz / Low CH / QPSK



Band17 / 10MHz / Low CH / 16QAM

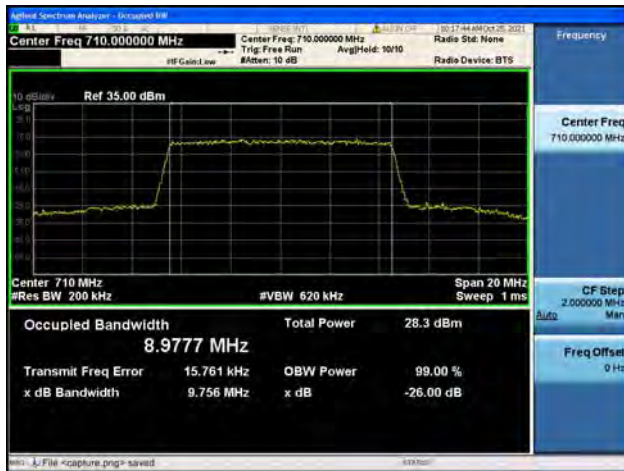


Band17 / 10MHz / Low CH / 64QAM

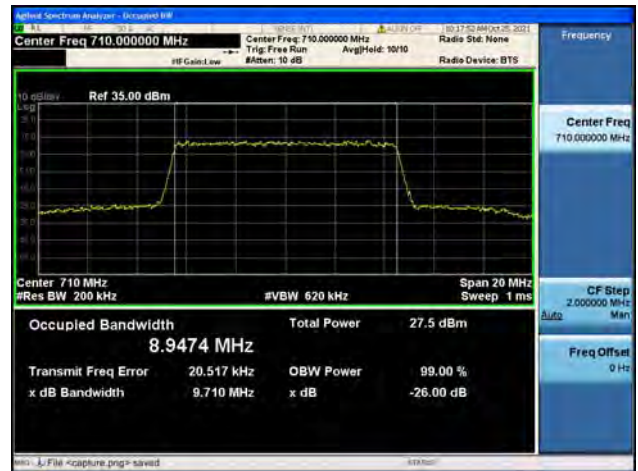




Band17 / 10MHz / Mid CH / QPSK



Band17 / 10MHz / Mid CH / 16QAM



Band17 / 10MHz / Mid CH / 64QAM



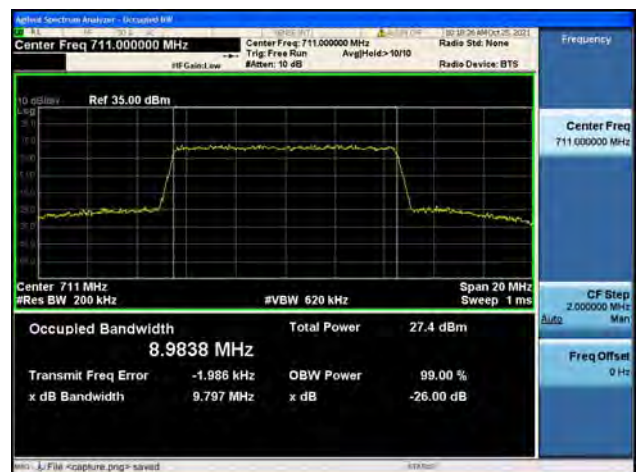
Band17 / 10MHz / High CH / QPSK



Band17 / 10MHz / High CH / 16QAM

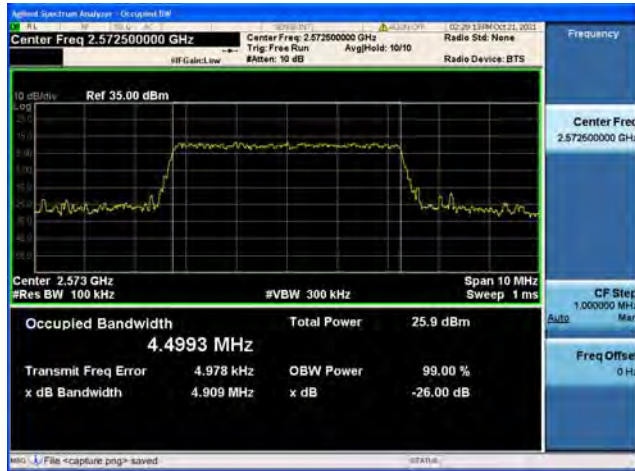


Band17 / 10MHz / High CH / 64QAM





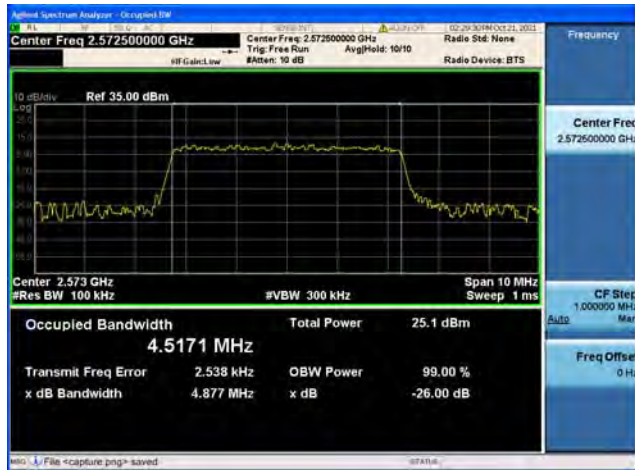
Band38 / 5MHz / Low CH / QPSK



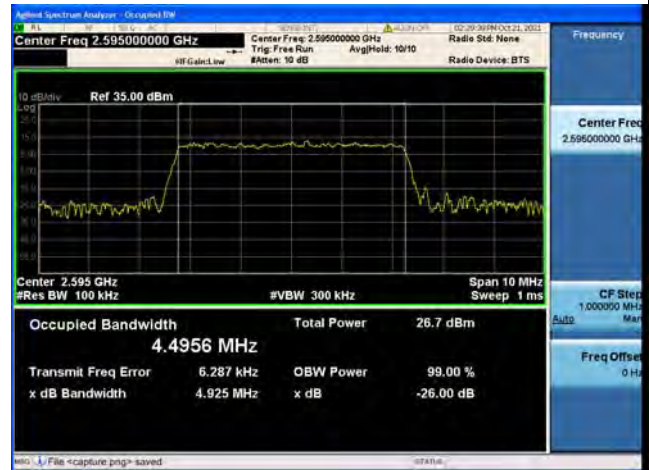
Band38 / 5MHz / Low CH / 16QAM



Band38 / 5MHz / Low CH / 64QAM



Band38 / 5MHz / Mid CH / QPSK



Band38 / 5MHz / Mid CH / 16QAM



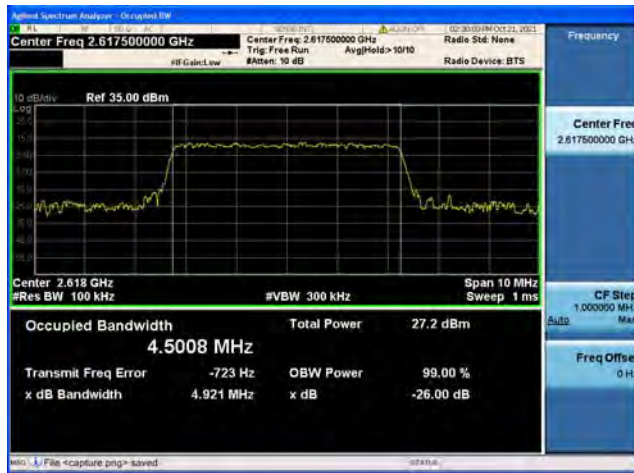
Band38 / 5MHz / Mid CH / 64QAM



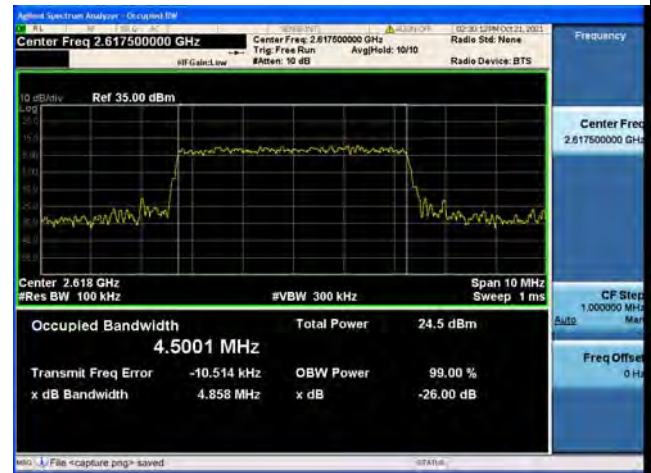




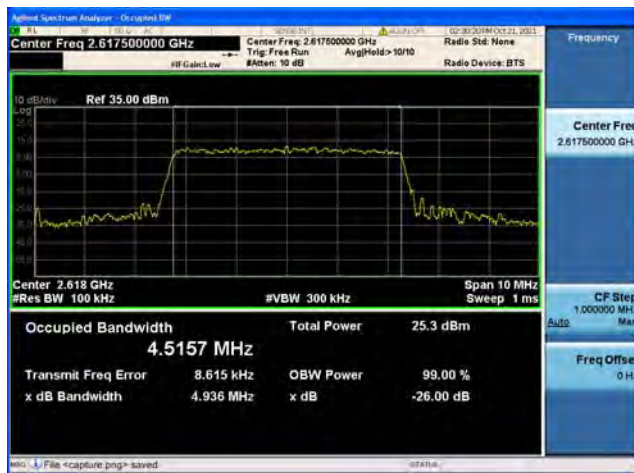
Band38 / 5MHz / High CH / QPSK



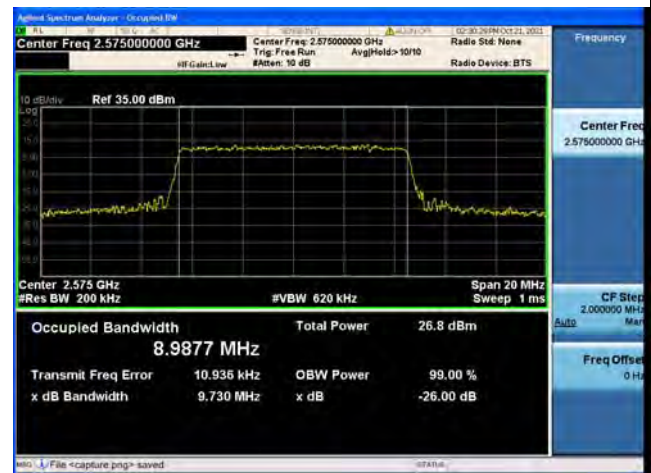
Band38 / 5MHz / High CH / 16QAM



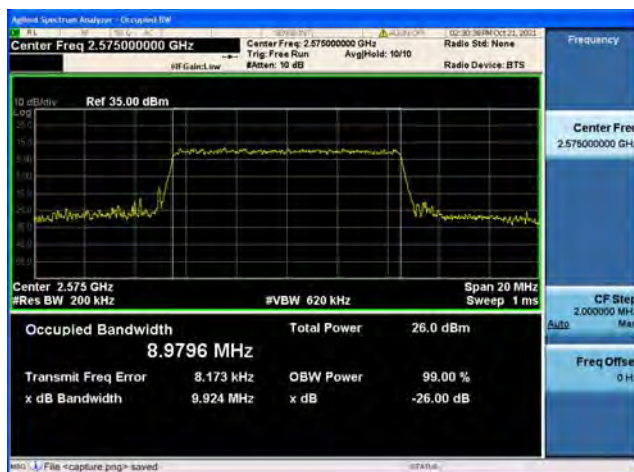
Band38 / 5MHz / High CH / 64QAM



Band38 / 10MHz / Low CH / QPSK



Band38 / 10MHz / Low CH / 16QAM

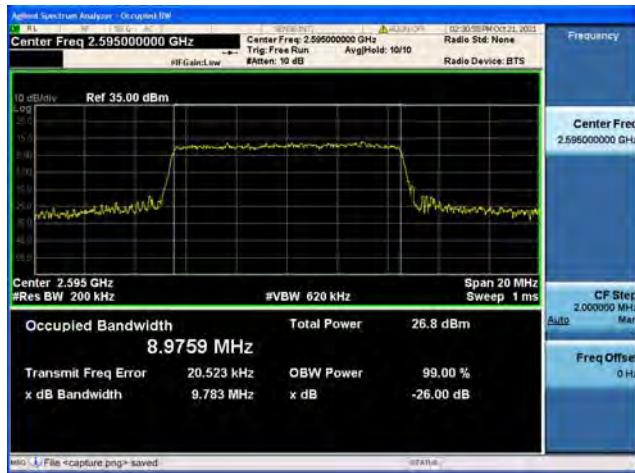


Band38 / 10MHz / Low CH / 64QAM

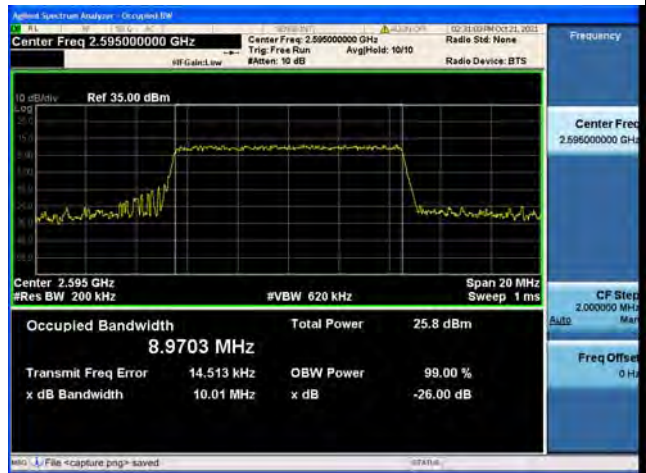




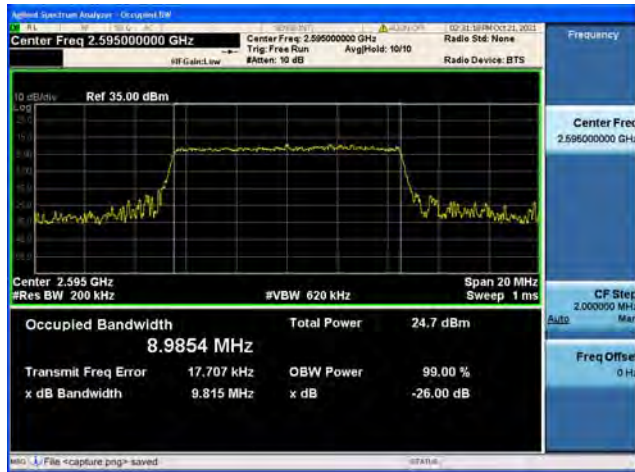
Band38 / 10MHz / Mid CH / QPSK



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

