



TEST REPORT

APPLICANT : Reliance Communications LLC

PRODUCT NAME : Orbic 5G Module

MODEL NAME : Orbic 5G Module

BRAND NAME : Orbic

FCC ID : 2ABGH-R100ML5

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

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Shen Junsheng (Supervisor)

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DIRECTORY

- 1. Technical Information 3**
- 1.1. Applicant and Manufacturer Information 3**
- 1.2. Equipment Under Test (EUT) Description 3**
- 1.3. Maximum E.R.P./E.I.R.P. and Emission Designator 5**
- 1.4. Test Standards and Results 7**
- 1.5. Environmental Conditions 8**
- 2. 47 CFR Part 2, Part 22H, Part 24E, Part 27 F&H&L&M&N Requirements 9**
- 2.1. Transmitter Conducted Output Power and E.R.P./E.I.R.P. 9**
- 2.2. Occupied Bandwidth87**
- 2.3. Frequency Stability 147**
- 2.4. Peak to Average Ratio 152**
- 2.5. Conducted Spurious Emissions 186**
- 2.6. Band Edge 247**
- 2.7. Radiated Spurious Emissions 278**
- Annex A Test Uncertainty 306**
- Annex B Testing Laboratory Information 307**

Change History		
Version	Date	Reason for change
1.0	2021-06-25	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Reliance Communications LLC
Applicant Address:	91 Colin Drive, Unit 1, HOLBROOK, New York 11741, United States
Manufacturer:	Unimaxcomm
Manufacturer Address:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China 518110

1.2. Equipment Under Test (EUT) Description

Product Name:	Orbic 5G Module	
Serial No.:	(N/A, marked #1 by test site)	
Hardware Version:	V1.1	
Software Version:	ORB100ML5_v1.0.9_VZ	
Modulation Type:	QPSK, 16QAM, 64QAM	
Carrier Aggregation:	Support	
Operation Band:	Band 2 / 4 / 5 / 12 / 13 / 41 / 66 / 71	
Frequency Range:	LTE Band 2	Tx: 1850MHz–1910MHz
		Rx: 1930MHz–1990MHz
	LTE Band 4	Tx: 1710MHz–1755MHz
		Rx: 2110MHz–2155MHz
	LTE Band 5	Tx: 824MHz–849MHz
		Rx: 869MHz–894MHz
	LTE Band 12	Tx: 699MHz–716MHz
		Rx: 729MHz–746MHz
	LTE Band 13	Tx: 777MHz–787MHz
		Rx: 746MHz–756MHz
	LTE Band 41	Tx: 2555MHz–2655MHz
		Rx: 2555MHz–2655MHz
	LTE Band 66	Tx: 1710MHz –1780MHz
		Rx: 2110MHz –2200MHz



Frequency Range:	LTE Band 71	Tx: 663MHz –698MHz
		Rx: 617MHz –652MHz
Channel Bandwidth:	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 12	1.4MHz, 3 MHz, 5 MHz, 10MHz
	LTE Band 13	5 MHz, 10MHz
	LTE Band 41	5 MHz, 10MHz, 15MHz, 20MHz
	LTE Band 66	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 71	5 MHz, 10MHz, 15MHz, 20MHz
Antenna Type:	PIFA Antenna	
Antenna Gain:	LTE Band 2	3.80dBi
	LTE Band 4	3.68dBi
	LTE Band 5	-0.10dBi
	LTE Band 12	-0.55dBi
	LTE Band 13	-0.10dBi
	LTE Band 41	2.23dBi
	LTE Band 66	3.68dBi
	LTE Band 71	-3.92dBi

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



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

LTE Band 2	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	0.528	0.470	0.287	18M0G7D	18M0W7D	18M0W7D
15	0.522	0.474	0.278	13M5G7D	13M5W7D	13M5W7D
10	0.537	0.463	0.283	8M99G7D	8M95W7D	8M97W7D
5	0.526	0.458	0.303	4M50G7D	4M51W7D	4M50W7D
3	0.497	0.439	0.275	2M71G7D	2M71W7D	2M71W7D
1.4	0.484	0.420	0.289	1M10G7D	1M10W7D	1M09W7D
LTE Band 4	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	0.505	0.443	0.269	18M5G7D	18M4W7D	18M5W7D
15	0.528	0.472	0.272	13M5G7D	13M5W7D	13M5W7D
10	0.509	0.462	0.280	9M00G7D	8M97W7D	8M98W7D
5	0.506	0.466	0.291	4M50G7D	4M51W7D	4M50W7D
3	0.550	0.453	0.299	2M71G7D	2M70W7D	2M71W7D
1.4	0.530	0.439	0.292	1M10G7D	1M10W7D	1M09W7D
LTE Band 5	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.116	0.100	0.066	8M99G7D	8M97W7D	8M99W7D
5	0.112	0.099	0.058	4M50G7D	4M50W7D	4M50W7D
3	0.112	0.100	0.064	2M70G7D	2M70W7D	2M71W7D
1.4	0.113	0.098	0.061	1M10G7D	1M10W7D	1M09W7D
LTE Band 12	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.102	0.086	0.057	9M00G7D	8M97W7D	8M98W7D
5	0.101	0.091	0.054	4M50G7D	4M50W7D	4M51W7D
3	0.101	0.092	0.055	2M70G7D	2M70W7D	2M71W7D
1.4	0.094	0.079	0.052	1M107D	1M10W7D	1M09W7D
LTE Band 13	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.135	0.124	0.117	8M97G7D	8M93W7D	8M95W7D
5	0.141	0.125	0.117	4M51G7D	4M51W7D	4M50W7D



LTE Band 41	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	0.708	0.589	0.600	18M0G7D	18M0W7D	18M0W7D
15	0.687	0.573	0.575	13M5G7D	13M5W7D	13M5W7D
10	0.682	0.592	0.509	8M96G7D	8M97W7D	8M97W7D
5	0.690	0.578	0.579	4M51G7D	4M51W7D	4M50W7D
LTE Band 66	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	0.516	0.442	0.279	18M0G7D	18M0W7D	18M0W7D
15	0.509	0.461	0.279	13M5G7D	13M5W7D	13M5W7D
10	0.527	0.465	0.274	8M93G7D	8M94W7D	8M93W7D
5	0.512	0.459	0.292	4M49G7D	4M49W7D	4M50W7D
3	0.526	0.463	0.330	2M69G7D	2M69W7D	2M69W7D
1.4	0.533	0.432	0.343	1M09G7D	1M09W7D	1M09W7D
LTE Band 71	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	0.074	0.069	0.039	18M1G7D	18M0W7D	18M0W7D
15	0.068	0.056	0.033	13M6G7D	13M6W7D	13M6W7D
10	0.065	0.061	0.030	9M00G7D	8M97W7D	8M99W7D
5	0.064	0.059	0.030	4M49G7D	4M49W7D	4M50W7D



1.4. Test Standards and Results

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

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

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

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046 22.913(a)(2) 24.232(c) 27.50(b)(10) 27.50(c)(10) 27.50(d)(4) 27.50(h)(2)	Transmitter Conducted Output Power and E.R.P./E.I.R.P.	Jun 10, 2021	Chen Hao Gao Jianrou	PASS	No deviation
2.1049	Occupied Bandwidth	Mar 19 to Apr 01, 2021	Ling Keye	PASS	No deviation
2.1055 22.355 24.235 27.54	Frequency Stability	Jun 16, 2021	Ling Keye	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Mar 19 to Apr 01, 2021	Ling Keye	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(c)(2) 27.53(g) 27.53(h) 27.53(m)(4)	Conducted Spurious Emissions	Mar 29 to Apr 01, 2021	Ling Keye	PASS	No deviation
2.1051 22.917(a)	Band Edge	Mar 19, 2021 to	Ling Keye	PASS	No deviation



24.238(a) 27.53(c)(2) 27.53(g) 27.53(h) 27.53(m)(4)		Apr 01, 2021			
2.1051 22.917(a) 24.238(a) 27.53(c)(2) 27.53(g) 27.53(h) 27.53(m)(4)	Radiated Spurious Emissions	Apr 08&09, 2021	Gao Jianrou	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&N Requirements

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

2.1.1. Requirement

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

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

According to FCC section 27.50 (d)(4) for LTE Band 4/66, Fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat E.I.R.P.

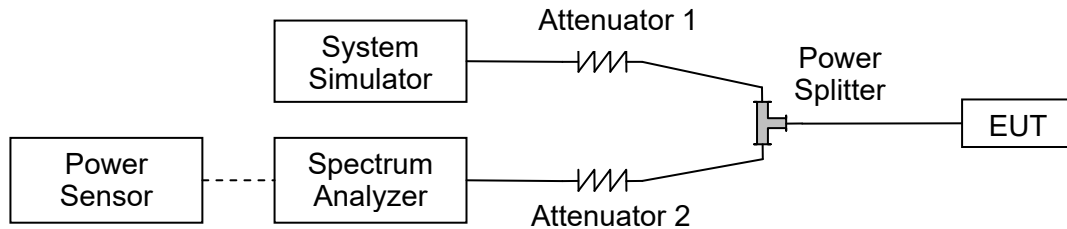
According to FCC section22.913 (a)(2) for LTE Band 5/26, the E.R.P. of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

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.

According to FCC section 27.50 (c)(10) for LTE Band 12/71, Portable stations (hand-held devices) operating in the 704-716MHz band are limited to 3watts E.R.P.

According to FCC section 27.50 (h)(2) for LTE Band 41, 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.

2.1.2. Test Description



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

2.1.3. Test Procedure

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

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

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



2.1.4. Result

Conducted Output Power

LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	23.34	23.43	23.43
20	QPSK	1	49	23.28	23.29	23.26
20	QPSK	1	99	23.24	23.42	23.36
20	QPSK	50	0	22.33	22.39	22.38
20	QPSK	50	24	22.41	22.37	22.41
20	QPSK	50	50	22.4	22.42	22.37
20	QPSK	100	0	22.45	22.42	22.28
20	16QAM	1	0	22.66	22.27	22.66
20	16QAM	1	49	22.33	22.85	22.62
20	16QAM	1	99	22.54	22.92	22.11
20	16QAM	50	0	21.32	21.44	21.37
20	16QAM	50	24	21.52	21.39	21.41
20	16QAM	50	50	21.53	21.41	21.47
20	16QAM	100	0	21.48	21.41	21.28
20	64QAM	1	0	20.58	20.33	20.66
20	64QAM	1	49	20.34	20.39	20.48
20	64QAM	1	99	20.38	20.72	20.78
20	64QAM	50	0	20.38	20.45	20.39
20	64QAM	50	24	20.48	20.34	20.49
20	64QAM	50	50	20.49	20.54	20.47
20	64QAM	100	0	20.55	20.46	20.41



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	23.35	23.38	23.36
15	QPSK	1	37	23.37	23.37	23.37
15	QPSK	1	74	23.31	23.36	23.37
15	QPSK	36	0	22.47	22.46	22.39
15	QPSK	36	20	22.51	22.45	22.51
15	QPSK	36	39	22.47	22.57	22.42
15	QPSK	75	0	22.54	22.36	22.45
15	16QAM	1	0	22.62	22.82	22.96
15	16QAM	1	37	22.75	22.67	22.50
15	16QAM	1	74	22.56	22.87	22.82
15	16QAM	36	0	21.48	21.46	21.37
15	16QAM	36	20	21.58	21.48	21.51
15	16QAM	36	39	21.50	21.46	21.52
15	16QAM	75	0	21.34	21.46	21.46
15	64QAM	1	0	20.09	20.47	20.34
15	64QAM	1	37	20.64	20.49	20.49
15	64QAM	1	74	20.64	20.57	20.58
15	64QAM	36	0	20.42	20.47	20.38
15	64QAM	36	20	20.50	20.46	20.53
15	64QAM	36	39	20.57	20.40	20.51
15	64QAM	75	0	20.41	20.45	20.49



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	23.50	23.50	23.46
10	QPSK	1	25	23.26	23.31	23.30
10	QPSK	1	49	23.14	23.29	23.38
10	QPSK	25	0	22.43	22.30	22.21
10	QPSK	25	12	22.44	22.42	22.36
10	QPSK	25	25	22.38	22.41	22.42
10	QPSK	50	0	22.42	22.41	22.26
10	16QAM	1	0	22.60	22.36	22.67
10	16QAM	1	25	22.69	22.86	22.71
10	16QAM	1	49	22.86	22.54	22.63
10	16QAM	25	0	21.43	21.36	21.28
10	16QAM	25	12	21.35	21.41	21.42
10	16QAM	25	25	21.38	21.42	21.39
10	16QAM	50	0	21.38	21.45	21.39
10	64QAM	1	0	20.23	20.49	20.84
10	64QAM	1	25	20.35	20.72	20.47
10	64QAM	1	49	20.63	20.61	20.83
10	64QAM	25	0	20.57	20.29	20.41
10	64QAM	25	12	20.42	20.45	20.36
10	64QAM	25	25	20.55	20.41	20.46
10	64QAM	50	0	20.51	20.37	20.43



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	23.21	23.41	23.27
5	QPSK	1	12	23.40	23.38	23.26
5	QPSK	1	24	23.37	23.26	23.26
5	QPSK	12	0	22.36	22.37	22.36
5	QPSK	12	7	22.38	22.42	22.44
5	QPSK	12	13	22.39	22.41	22.35
5	QPSK	25	0	22.31	22.30	22.32
5	16QAM	1	0	22.31	22.17	22.34
5	16QAM	1	12	22.28	22.40	22.31
5	16QAM	1	24	22.26	22.81	22.28
5	16QAM	12	0	21.45	21.36	21.40
5	16QAM	12	7	21.41	21.48	21.40
5	16QAM	12	13	21.36	21.48	21.45
5	16QAM	25	0	21.32	21.35	21.38
5	64QAM	1	0	21.01	20.25	20.41
5	64QAM	1	12	20.48	20.63	20.67
5	64QAM	1	24	20.21	20.69	20.42
5	64QAM	12	0	20.48	20.41	20.54
5	64QAM	12	7	20.45	20.34	20.42
5	64QAM	12	13	20.29	20.46	20.45
5	64QAM	25	0	20.44	20.34	20.37



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	23.09	22.95	23.00
3	QPSK	1	8	23.05	23.15	23.16
3	QPSK	1	14	23.00	22.94	23.08
3	QPSK	8	0	22.12	22.08	22.08
3	QPSK	8	4	22.09	22.11	22.14
3	QPSK	8	7	22.06	22.09	22.07
3	QPSK	15	0	22.11	22.03	22.09
3	16QAM	1	0	22.14	22.45	22.62
3	16QAM	1	8	22.44	22.47	22.46
3	16QAM	1	14	22.14	22.15	22.43
3	16QAM	8	0	21.24	21.16	21.12
3	16QAM	8	4	21.15	21.22	21.21
3	16QAM	8	7	21.17	21.26	21.26
3	16QAM	15	0	21.25	21.07	20.98
3	64QAM	1	0	20.19	20.23	20.56
3	64QAM	1	8	20.50	20.51	20.59
3	64QAM	1	14	20.30	20.09	20.52
3	64QAM	8	0	20.15	20.06	20.07
3	64QAM	8	4	20.06	20.30	20.21
3	64QAM	8	7	20.19	20.31	20.08
3	64QAM	15	0	20.12	20.18	20.07



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	22.99	23.05	23.01
1.4	QPSK	1	3	22.98	23.02	22.99
1.4	QPSK	1	5	22.95	22.99	22.95
1.4	QPSK	3	0	22.99	22.96	22.93
1.4	QPSK	3	1	23.03	23.05	22.95
1.4	QPSK	3	3	22.95	22.97	22.94
1.4	QPSK	6	0	21.98	22.14	21.99
1.4	16QAM	1	0	21.97	22.17	22.43
1.4	16QAM	1	3	22.23	22.41	22.09
1.4	16QAM	1	5	22.20	22.26	22.03
1.4	16QAM	3	0	22.02	22.09	22.21
1.4	16QAM	3	1	22.14	22.13	22.15
1.4	16QAM	3	3	22.05	22.01	22.13
1.4	16QAM	6	0	21.07	21.27	21.09
1.4	64QAM	1	0	20.13	20.81	20.14
1.4	64QAM	1	3	20.14	20.21	20.41
1.4	64QAM	1	5	20.74	20.01	20.63
1.4	64QAM	3	0	20.34	20.18	20.12
1.4	64QAM	3	1	20.02	20.05	20.13
1.4	64QAM	3	3	20.24	20.28	19.96
1.4	64QAM	6	0	20.21	20.22	20.02



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	23.05	23.35	23.34
20	QPSK	1	49	22.97	23.31	23.32
20	QPSK	1	99	23.05	23.30	23.33
20	QPSK	50	0	22.04	22.34	22.32
20	QPSK	50	24	22.26	22.25	22.26
20	QPSK	50	50	22.15	22.31	22.27
20	QPSK	100	0	22.22	22.35	22.29
20	16QAM	1	0	22.39	22.42	22.78
20	16QAM	1	49	21.95	22.44	22.67
20	16QAM	1	99	22.57	22.15	22.13
20	16QAM	50	0	21.25	21.33	21.47
20	16QAM	50	24	21.18	21.31	21.31
20	16QAM	50	50	21.12	21.32	21.33
20	16QAM	100	0	21.14	21.30	21.42
20	64QAM	1	0	20.16	20.49	20.62
20	64QAM	1	49	20.37	20.79	20.32
20	64QAM	1	99	20.59	20.49	20.37
20	64QAM	50	0	20.08	20.40	20.35
20	64QAM	50	24	20.29	20.39	20.38
20	64QAM	50	50	20.29	20.25	20.20
20	64QAM	100	0	20.30	20.25	20.38



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				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	23.17	23.55	23.51
15	QPSK	1	37	23.02	23.42	23.51
15	QPSK	1	74	23.27	23.39	23.50
15	QPSK	36	0	22.19	22.44	22.42
15	QPSK	36	20	22.28	22.38	22.35
15	QPSK	36	39	22.27	22.44	22.43
15	QPSK	75	0	22.28	22.46	22.48
15	16QAM	1	0	22.78	22.48	23.06
15	16QAM	1	37	22.28	22.40	22.99
15	16QAM	1	74	22.76	22.55	22.90
15	16QAM	36	0	21.32	21.46	21.44
15	16QAM	36	20	21.34	21.47	21.34
15	16QAM	36	39	21.24	21.46	21.40
15	16QAM	75	0	21.31	21.34	21.55
15	64QAM	1	0	20.44	20.63	20.24
15	64QAM	1	37	20.42	20.33	20.66
15	64QAM	1	74	20.26	20.25	20.99
15	64QAM	36	0	20.29	20.43	20.51
15	64QAM	36	20	20.34	20.43	20.35
15	64QAM	36	39	20.25	20.51	20.38
15	64QAM	75	0	20.38	20.41	20.39



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	23.12	23.39	23.38
10	QPSK	1	25	22.98	23.28	23.37
10	QPSK	1	49	23.09	23.27	23.37
10	QPSK	25	0	22.14	22.24	22.39
10	QPSK	25	12	22.09	22.36	22.44
10	QPSK	25	25	22.21	22.42	22.42
10	QPSK	50	0	22.19	22.36	22.27
10	16QAM	1	0	22.60	22.82	22.61
10	16QAM	1	25	22.42	22.81	22.65
10	16QAM	1	49	22.44	22.97	22.42
10	16QAM	25	0	21.04	21.30	21.33
10	16QAM	25	12	21.16	21.43	21.48
10	16QAM	25	25	21.20	21.54	21.44
10	16QAM	50	0	21.13	21.35	21.45
10	64QAM	1	0	20.32	20.41	20.76
10	64QAM	1	25	20.54	20.57	20.46
10	64QAM	1	49	19.92	20.54	20.79
10	64QAM	25	0	20.11	20.31	20.48
10	64QAM	25	12	20.13	20.29	20.42
10	64QAM	25	25	20.36	20.51	20.40
10	64QAM	50	0	20.28	20.40	20.24



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	23.36	23.35
5	QPSK	1	12	23.27	23.35	23.34
5	QPSK	1	24	23.09	23.32	23.33
5	QPSK	12	0	22.24	22.35	22.47
5	QPSK	12	7	22.27	22.38	22.46
5	QPSK	12	13	22.22	22.46	22.45
5	QPSK	25	0	22.24	22.35	22.42
5	16QAM	1	0	22.42	22.52	23.00
5	16QAM	1	12	22.50	22.63	22.72
5	16QAM	1	24	22.49	22.98	22.71
5	16QAM	12	0	21.27	21.44	21.44
5	16QAM	12	7	21.31	21.51	21.51
5	16QAM	12	13	21.41	21.50	21.51
5	16QAM	25	0	21.21	21.44	21.44
5	64QAM	1	0	20.80	20.43	20.75
5	64QAM	1	12	20.90	20.50	20.44
5	64QAM	1	24	20.64	20.79	20.96
5	64QAM	12	0	20.24	20.56	20.62
5	64QAM	12	7	20.23	20.51	20.44
5	64QAM	12	13	20.20	20.57	20.56
5	64QAM	25	0	20.20	20.36	20.48



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	23.37	23.72	23.70
3	QPSK	1	8	23.50	23.71	23.69
3	QPSK	1	14	23.46	23.65	23.64
3	QPSK	8	0	22.45	22.81	22.80
3	QPSK	8	4	22.42	22.78	22.79
3	QPSK	8	7	22.42	22.76	22.78
3	QPSK	15	0	22.47	22.70	22.76
3	16QAM	1	0	22.75	22.87	22.88
3	16QAM	1	8	22.70	22.80	22.81
3	16QAM	1	14	22.80	22.60	22.54
3	16QAM	8	0	21.47	21.85	21.86
3	16QAM	8	4	21.38	21.84	21.85
3	16QAM	8	7	21.51	21.83	21.83
3	16QAM	15	0	21.51	21.82	21.81
3	64QAM	1	0	20.47	21.08	21.03
3	64QAM	1	8	20.80	20.93	20.95
3	64QAM	1	14	20.65	20.65	20.66
3	64QAM	8	0	20.43	20.51	20.53
3	64QAM	8	4	20.49	20.50	20.49
3	64QAM	8	7	20.52	20.51	20.50
3	64QAM	15	0	20.53	20.67	20.61



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	23.17	23.56	23.52
1.4	QPSK	1	3	23.30	23.45	23.41
1.4	QPSK	1	5	23.25	23.29	23.27
1.4	QPSK	3	0	23.19	23.27	23.26
1.4	QPSK	3	1	23.22	23.24	23.23
1.4	QPSK	3	3	23.17	23.15	23.14
1.4	QPSK	6	0	22.25	22.67	22.62
1.4	16QAM	1	0	22.74	22.64	22.60
1.4	16QAM	1	3	22.48	22.62	22.59
1.4	16QAM	1	5	22.65	22.61	22.54
1.4	16QAM	3	0	22.16	22.51	22.48
1.4	16QAM	3	1	22.40	22.45	22.41
1.4	16QAM	3	3	22.34	22.35	22.34
1.4	16QAM	6	0	21.32	21.67	21.69
1.4	64QAM	1	0	20.98	20.87	20.97
1.4	64QAM	1	3	20.59	20.81	20.85
1.4	64QAM	1	5	20.37	20.77	20.81
1.4	64QAM	3	0	20.50	20.69	20.80
1.4	64QAM	3	1	20.31	20.65	20.77
1.4	64QAM	3	3	20.27	20.63	20.74
1.4	64QAM	6	0	20.37	20.63	20.73



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	22.88	22.89	22.87
10	QPSK	1	25	22.80	22.84	22.79
10	QPSK	1	49	22.88	22.81	22.69
10	QPSK	25	0	21.81	21.74	21.89
10	QPSK	25	12	21.89	21.90	21.85
10	QPSK	25	25	21.80	21.76	21.78
10	QPSK	50	0	21.87	21.88	21.93
10	16QAM	1	0	21.90	21.97	22.23
10	16QAM	1	25	21.82	22.20	22.24
10	16QAM	1	49	21.94	22.22	21.85
10	16QAM	25	0	20.85	20.70	20.83
10	16QAM	25	12	20.81	20.91	20.85
10	16QAM	25	25	20.87	20.85	20.89
10	16QAM	50	0	20.94	20.88	20.85
10	64QAM	1	0	20.42	20.07	20.30
10	64QAM	1	25	19.79	20.06	20.00
10	64QAM	1	49	19.93	20.28	19.49
10	64QAM	25	0	19.85	19.92	19.87
10	64QAM	25	12	19.91	19.95	19.89
10	64QAM	25	25	20.10	19.78	19.80
10	64QAM	50	0	19.85	19.84	19.71



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	22.52	22.74	22.70
5	QPSK	1	12	22.42	22.66	22.69
5	QPSK	1	24	22.50	22.59	22.69
5	QPSK	12	0	21.66	21.67	21.76
5	QPSK	12	7	21.62	21.70	21.71
5	QPSK	12	13	21.49	21.62	21.65
5	QPSK	25	0	21.56	21.68	21.67
5	16QAM	1	0	22.18	21.88	21.69
5	16QAM	1	12	21.90	21.95	22.20
5	16QAM	1	24	21.83	21.94	22.08
5	16QAM	12	0	20.73	20.58	20.84
5	16QAM	12	7	20.53	20.62	20.68
5	16QAM	12	13	20.54	20.56	20.76
5	16QAM	25	0	20.59	20.60	20.70
5	64QAM	1	0	19.66	19.61	19.90
5	64QAM	1	12	19.61	19.59	19.90
5	64QAM	1	24	19.57	19.56	19.90
5	64QAM	12	0	19.53	19.60	19.84
5	64QAM	12	7	19.71	19.47	19.82
5	64QAM	12	13	19.57	19.50	19.61
5	64QAM	25	0	19.71	19.50	19.75



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	22.71	22.73	22.69
3	QPSK	1	8	22.60	22.62	22.67
3	QPSK	1	14	22.59	22.59	22.60
3	QPSK	8	0	21.81	21.67	21.85
3	QPSK	8	4	21.85	21.70	21.88
3	QPSK	8	7	21.79	21.62	21.86
3	QPSK	15	0	21.78	21.68	21.85
3	16QAM	1	0	22.26	21.88	22.04
3	16QAM	1	8	21.97	21.95	22.01
3	16QAM	1	14	21.80	21.77	21.89
3	16QAM	8	0	20.90	20.58	20.89
3	16QAM	8	4	20.81	20.62	20.90
3	16QAM	8	7	20.86	20.56	20.91
3	16QAM	15	0	20.83	20.60	20.86
3	64QAM	1	0	20.26	19.61	20.09
3	64QAM	1	8	20.31	19.47	20.33
3	64QAM	1	14	20.00	19.30	20.03
3	64QAM	8	0	19.92	19.60	19.92
3	64QAM	8	4	19.77	19.47	19.93
3	64QAM	8	7	20.02	19.50	19.92
3	64QAM	15	0	19.78	19.50	19.92



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	22.64	22.77	22.67
1.4	QPSK	1	3	22.76	22.65	22.66
1.4	QPSK	1	5	22.59	22.61	22.58
1.4	QPSK	3	0	22.69	22.59	22.61
1.4	QPSK	3	1	22.75	22.56	22.73
1.4	QPSK	3	3	22.70	22.51	22.69
1.4	QPSK	6	0	21.78	21.69	21.71
1.4	16QAM	1	0	21.98	22.02	22.16
1.4	16QAM	1	3	22.00	22.01	22.00
1.4	16QAM	1	5	21.92	21.93	21.93
1.4	16QAM	3	0	21.75	21.83	21.81
1.4	16QAM	3	1	21.79	21.80	21.78
1.4	16QAM	3	3	21.91	21.92	21.90
1.4	16QAM	6	0	20.93	20.76	20.92
1.4	64QAM	1	0	20.11	19.86	20.03
1.4	64QAM	1	3	19.88	19.84	19.85
1.4	64QAM	1	5	20.18	19.83	19.88
1.4	64QAM	3	0	19.87	19.79	19.83
1.4	64QAM	3	1	19.96	19.80	19.90
1.4	64QAM	3	3	19.90	19.81	19.88
1.4	64QAM	6	0	19.98	19.81	19.87



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23060	23095	23130
Frequency (MHz)				704	707.5	711
10	QPSK	1	0	22.77	22.79	22.76
10	QPSK	1	25	22.50	22.61	22.57
10	QPSK	1	49	22.48	22.49	22.48
10	QPSK	25	0	21.60	21.69	21.62
10	QPSK	25	12	21.77	21.57	21.51
10	QPSK	25	25	21.72	21.52	21.60
10	QPSK	50	0	21.61	21.63	21.64
10	16QAM	1	0	21.80	21.38	21.83
10	16QAM	1	25	21.94	22.00	21.90
10	16QAM	1	49	22.05	21.69	21.94
10	16QAM	25	0	20.68	20.67	20.68
10	16QAM	25	12	20.82	20.56	20.61
10	16QAM	25	25	20.86	20.58	20.72
10	16QAM	50	0	20.67	20.62	20.67
10	64QAM	1	0	20.25	19.65	19.81
10	64QAM	1	25	20.16	19.54	19.87
10	64QAM	1	49	19.80	19.90	19.65
10	64QAM	25	0	19.72	19.70	19.64
10	64QAM	25	12	19.67	19.59	19.63
10	64QAM	25	25	19.67	19.73	19.50
10	64QAM	50	0	19.67	19.67	19.54



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	22.51	22.74	22.61
5	QPSK	1	12	22.63	22.67	22.54
5	QPSK	1	24	22.72	22.51	22.48
5	QPSK	12	0	21.71	21.58	21.54
5	QPSK	12	7	21.65	21.58	21.50
5	QPSK	12	13	21.69	21.52	21.56
5	QPSK	25	0	21.71	21.63	21.49
5	16QAM	1	0	21.97	21.30	21.61
5	16QAM	1	12	21.80	22.27	21.61
5	16QAM	1	24	21.88	22.12	21.28
5	16QAM	12	0	20.72	20.67	20.66
5	16QAM	12	7	20.86	20.68	20.64
5	16QAM	12	13	20.67	20.66	20.52
5	16QAM	25	0	20.61	20.55	20.50
5	64QAM	1	0	20.05	19.60	19.93
5	64QAM	1	12	19.84	19.50	19.83
5	64QAM	1	24	20.02	19.64	19.85
5	64QAM	12	0	19.69	19.70	19.75
5	64QAM	12	7	19.84	19.62	19.50
5	64QAM	12	13	19.62	19.68	19.48
5	64QAM	25	0	19.74	19.62	19.60



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	22.56	22.73	22.63
3	QPSK	1	8	22.68	22.69	22.64
3	QPSK	1	14	22.67	22.64	22.65
3	QPSK	8	0	21.65	21.80	21.78
3	QPSK	8	4	21.69	21.79	21.73
3	QPSK	8	7	21.62	21.78	21.67
3	QPSK	15	0	21.67	21.76	21.65
3	16QAM	1	0	21.89	22.32	22.22
3	16QAM	1	8	21.94	21.95	21.93
3	16QAM	1	14	22.35	22.34	22.36
3	16QAM	8	0	20.84	20.87	20.85
3	16QAM	8	4	20.74	20.76	20.73
3	16QAM	8	7	20.60	20.63	20.61
3	16QAM	15	0	20.74	20.84	20.64
3	64QAM	1	0	20.00	20.14	20.11
3	64QAM	1	8	19.90	19.91	19.93
3	64QAM	1	14	19.67	19.68	19.69
3	64QAM	8	0	19.59	19.62	19.63
3	64QAM	8	4	19.78	19.97	19.81
3	64QAM	8	7	19.74	19.96	19.80
3	64QAM	15	0	19.67	19.95	19.78



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	22.09	22.53	22.43
1.4	QPSK	1	3	22.21	22.23	22.24
1.4	QPSK	1	5	22.07	22.09	22.08
1.4	QPSK	3	0	22.14	22.16	22.15
1.4	QPSK	3	1	22.21	22.23	22.21
1.4	QPSK	3	3	22.17	22.18	22.19
1.4	QPSK	6	0	21.22	21.68	21.62
1.4	16QAM	1	0	21.34	21.67	21.66
1.4	16QAM	1	3	21.53	21.54	21.56
1.4	16QAM	1	5	21.20	21.23	21.24
1.4	16QAM	3	0	21.29	21.30	21.30
1.4	16QAM	3	1	21.30	21.34	21.32
1.4	16QAM	3	3	21.43	21.42	21.40
1.4	16QAM	6	0	20.27	20.70	20.65
1.4	64QAM	1	0	19.35	19.90	19.89
1.4	64QAM	1	3	19.49	19.51	19.50
1.4	64QAM	1	5	19.37	19.42	19.49
1.4	64QAM	3	0	19.46	19.45	19.47
1.4	64QAM	3	1	19.47	19.78	19.61
1.4	64QAM	3	3	19.56	19.75	19.59
1.4	64QAM	6	0	19.38	19.72	19.58



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	/	23.26	/
10	QPSK	1	25	/	23.55	/
10	QPSK	1	49	/	23.52	/
10	QPSK	25	0	/	22.58	/
10	QPSK	25	12	/	22.62	/
10	QPSK	25	25	/	22.72	/
10	QPSK	50	0	/	22.69	/
10	16QAM	1	0	/	22.79	/
10	16QAM	1	25	/	22.77	/
10	16QAM	1	49	/	23.19	/
10	16QAM	25	0	/	21.65	/
10	16QAM	25	12	/	21.68	/
10	16QAM	25	25	/	21.67	/
10	16QAM	50	0	/	21.74	/
10	64QAM	1	0	/	22.95	/
10	64QAM	1	25	/	22.70	/
10	64QAM	1	49	/	22.52	/
10	64QAM	25	0	/	21.48	/
10	64QAM	25	12	/	21.73	/
10	64QAM	25	25	/	21.69	/
10	64QAM	50	0	/	21.72	/



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	23.38	23.46	23.44
5	QPSK	1	12	23.54	23.52	23.57
5	QPSK	1	24	23.69	23.62	23.73
5	QPSK	12	0	22.55	22.56	22.68
5	QPSK	12	7	22.66	22.68	22.73
5	QPSK	12	13	22.70	22.74	22.80
5	QPSK	25	0	22.50	22.62	22.72
5	16QAM	1	0	22.58	22.88	22.72
5	16QAM	1	12	22.74	22.76	22.88
5	16QAM	1	24	23.23	22.78	23.22
5	16QAM	12	0	21.65	21.66	21.79
5	16QAM	12	7	21.65	21.73	21.81
5	16QAM	12	13	21.68	21.67	21.91
5	16QAM	25	0	21.67	21.54	21.78
5	64QAM	1	0	22.74	22.76	22.83
5	64QAM	1	12	22.35	22.63	22.93
5	64QAM	1	24	22.64	22.77	22.60
5	64QAM	12	0	21.51	21.55	21.63
5	64QAM	12	7	21.59	21.66	21.78
5	64QAM	12	13	21.70	21.83	21.85
5	64QAM	25	0	21.72	21.63	21.76



LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39750	40620	41490
Frequency (MHz)				2506	2593	2680
20	QPSK	1	0	25.93	26.27	25.79
20	QPSK	1	49	25.97	25.96	25.64
20	QPSK	1	99	25.90	25.95	25.77
20	QPSK	50	0	25.01	25.18	24.89
20	QPSK	50	24	25.10	25.21	24.97
20	QPSK	50	50	25.07	25.20	24.93
20	QPSK	100	0	25.10	25.21	24.84
20	16QAM	1	0	25.30	25.47	25.09
20	16QAM	1	49	25.40	25.32	24.97
20	16QAM	1	99	25.15	25.46	24.98
20	16QAM	50	0	24.00	24.20	24.00
20	16QAM	50	24	24.07	24.21	23.96
20	16QAM	50	50	24.07	24.22	24.04
20	16QAM	100	0	24.09	24.26	23.94
20	64QAM	1	0	25.18	25.55	24.86
20	64QAM	1	49	25.21	24.96	24.88
20	64QAM	1	99	24.91	24.98	24.83
20	64QAM	50	0	23.97	24.01	23.81
20	64QAM	50	24	24.17	24.26	23.91
20	64QAM	50	50	24.17	24.20	23.99
20	64QAM	100	0	24.16	24.25	23.98



LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39725	40620	41515
Frequency (MHz)				2503.5	2593	2682.5
15	QPSK	1	0	25.77	26.14	25.73
15	QPSK	1	37	25.82	25.81	25.73
15	QPSK	1	74	25.68	25.80	25.66
15	QPSK	36	0	25.01	25.14	24.88
15	QPSK	36	20	24.99	25.14	24.87
15	QPSK	36	39	25.05	25.17	24.93
15	QPSK	75	0	24.99	25.08	24.90
15	16QAM	1	0	25.26	25.35	25.00
15	16QAM	1	37	25.25	25.31	24.93
15	16QAM	1	74	25.06	25.27	24.96
15	16QAM	36	0	24.02	24.21	23.85
15	16QAM	36	20	24.08	24.26	23.85
15	16QAM	36	39	24.03	24.24	23.84
15	16QAM	75	0	23.95	24.20	23.95
15	64QAM	1	0	25.18	25.00	24.88
15	64QAM	1	37	24.83	25.37	24.88
15	64QAM	1	74	24.73	25.29	24.81
15	64QAM	36	0	24.13	24.13	23.98
15	64QAM	36	20	24.07	24.20	23.76
15	64QAM	36	39	23.99	24.19	23.93
15	64QAM	75	0	24.04	24.15	23.89



LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39700	40620	41540
Frequency (MHz)				2501	2593	2685
10	QPSK	1	0	25.98	26.11	25.88
10	QPSK	1	25	25.92	25.99	25.72
10	QPSK	1	49	25.80	25.89	25.84
10	QPSK	25	0	25.04	25.15	24.97
10	QPSK	25	12	25.04	25.22	24.97
10	QPSK	25	25	24.99	25.21	24.95
10	QPSK	50	0	24.96	25.24	24.88
10	16QAM	1	0	25.49	25.42	25.20
10	16QAM	1	25	25.42	25.31	25.13
10	16QAM	1	49	25.19	25.49	25.06
10	16QAM	25	0	24.02	24.10	24.00
10	16QAM	25	12	24.10	24.20	23.99
10	16QAM	25	25	24.16	24.20	23.98
10	16QAM	50	0	23.95	24.24	23.99
10	64QAM	1	0	24.56	24.84	24.24
10	64QAM	1	25	24.59	24.34	24.26
10	64QAM	1	49	24.29	24.36	24.21
10	64QAM	25	0	23.97	24.08	23.65
10	64QAM	25	12	24.08	24.07	23.62
10	64QAM	25	25	24.06	24.06	23.81
10	64QAM	50	0	24.03	24.08	23.93



LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39675	40620	41565
Frequency (MHz)				2498.5	2593	2687.5
5	QPSK	1	0	26.00	26.16	25.91
5	QPSK	1	12	25.99	25.99	25.82
5	QPSK	1	24	25.94	26.00	25.83
5	QPSK	12	0	25.05	25.20	25.03
5	QPSK	12	7	25.04	25.22	24.99
5	QPSK	12	13	25.08	25.27	24.91
5	QPSK	25	0	25.08	25.17	25.02
5	16QAM	1	0	25.39	25.36	25.26
5	16QAM	1	12	25.12	25.39	25.11
5	16QAM	1	24	25.28	25.31	25.11
5	16QAM	12	0	24.03	24.21	24.11
5	16QAM	12	7	24.13	24.34	24.01
5	16QAM	12	13	24.06	24.11	23.91
5	16QAM	25	0	24.07	24.20	24.15
5	64QAM	1	0	25.24	25.37	25.15
5	64QAM	1	12	25.04	25.40	25.19
5	64QAM	1	24	25.16	25.15	25.11
5	64QAM	12	0	24.20	24.14	24.04
5	64QAM	12	7	24.12	24.28	24.06
5	64QAM	12	13	24.20	24.24	23.97
5	64QAM	25	0	23.99	24.21	23.97



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132072	132322	132572
Frequency (MHz)				1720	1745	1770
20	QPSK	1	0	23.21	23.45	23.37
20	QPSK	1	49	23.19	23.43	23.18
20	QPSK	1	99	23.13	23.42	23.09
20	QPSK	50	0	22.19	22.48	22.30
20	QPSK	50	24	22.38	22.33	22.28
20	QPSK	50	50	22.29	22.43	22.12
20	QPSK	100	0	22.35	22.31	22.35
20	16QAM	1	0	22.27	22.81	22.77
20	16QAM	1	49	22.08	22.25	22.51
20	16QAM	1	99	22.62	22.59	22.40
20	16QAM	50	0	21.16	21.43	21.32
20	16QAM	50	24	21.39	21.38	21.40
20	16QAM	50	50	21.41	21.40	21.21
20	16QAM	100	0	21.31	21.37	21.33
20	64QAM	1	0	20.27	20.70	20.40
20	64QAM	1	49	20.78	20.48	20.37
20	64QAM	1	99	20.75	20.49	19.98
20	64QAM	50	0	20.17	20.50	20.30
20	64QAM	50	24	20.34	20.48	20.33
20	64QAM	50	50	20.35	20.33	20.28
20	64QAM	100	0	20.29	20.38	20.25



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5
15	QPSK	1	0	23.03	23.39	23.21
15	QPSK	1	37	23.09	23.38	23.19
15	QPSK	1	74	23.12	23.38	23.14
15	QPSK	36	0	22.15	22.44	22.28
15	QPSK	36	20	22.28	22.34	22.31
15	QPSK	36	39	22.29	22.44	22.13
15	QPSK	75	0	22.17	22.39	22.30
15	16QAM	1	0	22.46	22.96	22.77
15	16QAM	1	37	22.60	22.29	22.36
15	16QAM	1	74	22.52	22.90	22.48
15	16QAM	36	0	21.11	21.36	21.34
15	16QAM	36	20	21.27	21.49	21.30
15	16QAM	36	39	21.29	21.39	21.11
15	16QAM	75	0	21.29	21.43	21.26
15	64QAM	1	0	20.10	20.32	20.40
15	64QAM	1	37	20.68	20.78	20.63
15	64QAM	1	74	20.49	20.63	20.32
15	64QAM	36	0	20.29	20.38	20.38
15	64QAM	36	20	20.34	20.41	20.31
15	64QAM	36	39	20.24	20.42	20.26
15	64QAM	75	0	20.25	20.46	20.24



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132022	132322	132622
Frequency (MHz)				1715	1745	1775
10	QPSK	1	0	23.12	23.53	23.42
10	QPSK	1	25	23.14	23.54	23.24
10	QPSK	1	49	23.03	23.28	23.35
10	QPSK	25	0	22.38	22.44	22.43
10	QPSK	25	12	22.33	22.51	22.32
10	QPSK	25	25	22.31	22.46	22.38
10	QPSK	50	0	22.40	22.52	22.38
10	16QAM	1	0	22.60	22.67	22.74
10	16QAM	1	25	22.55	22.99	22.57
10	16QAM	1	49	22.29	22.64	22.50
10	16QAM	25	0	21.28	21.45	21.31
10	16QAM	25	12	21.50	21.56	21.44
10	16QAM	25	25	21.35	21.48	21.32
10	16QAM	50	0	21.27	21.50	21.29
10	64QAM	1	0	20.38	20.51	20.44
10	64QAM	1	25	20.32	20.67	20.27
10	64QAM	1	49	20.69	20.55	20.41
10	64QAM	25	0	20.44	20.52	20.35
10	64QAM	25	12	20.41	20.59	20.41
10	64QAM	25	25	20.33	20.38	20.39
10	64QAM	50	0	20.28	20.56	20.22



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5
5	QPSK	1	0	23.18	23.41	23.26
5	QPSK	1	12	23.19	23.40	23.25
5	QPSK	1	24	23.22	23.40	23.24
5	QPSK	12	0	22.26	22.51	22.34
5	QPSK	12	7	22.34	22.51	22.35
5	QPSK	12	13	22.29	22.51	22.35
5	QPSK	25	0	22.33	22.48	22.35
5	16QAM	1	0	22.14	22.68	22.65
5	16QAM	1	12	22.33	22.94	22.74
5	16QAM	1	24	22.47	22.60	23.28
5	16QAM	12	0	21.37	21.64	21.33
5	16QAM	12	7	21.42	21.47	21.52
5	16QAM	12	13	21.44	21.51	21.30
5	16QAM	25	0	21.37	21.54	21.46
5	64QAM	1	0	20.33	20.91	20.40
5	64QAM	1	12	20.11	20.98	20.66
5	64QAM	1	24	20.61	21.05	20.53
5	64QAM	12	0	20.34	20.58	20.31
5	64QAM	12	7	20.41	20.58	20.40
5	64QAM	12	13	20.32	20.41	20.43
5	64QAM	25	0	20.34	20.52	20.40



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5
3	QPSK	1	0	23.53	23.53	23.51
3	QPSK	1	8	23.46	23.47	23.45
3	QPSK	1	14	23.31	23.34	23.32
3	QPSK	8	0	22.55	22.56	22.51
3	QPSK	8	4	22.54	22.57	22.53
3	QPSK	8	7	22.56	22.55	22.54
3	QPSK	15	0	22.50	22.51	22.50
3	16QAM	1	0	22.71	22.70	22.71
3	16QAM	1	8	22.41	22.78	22.77
3	16QAM	1	14	22.99	22.98	22.97
3	16QAM	8	0	21.66	21.67	21.66
3	16QAM	8	4	21.55	21.57	21.58
3	16QAM	8	7	21.63	21.62	21.61
3	16QAM	15	0	21.51	21.54	21.50
3	64QAM	1	0	20.41	21.51	21.49
3	64QAM	1	8	20.29	21.45	21.41
3	64QAM	1	14	20.38	21.37	21.38
3	64QAM	8	0	20.57	20.54	20.54
3	64QAM	8	4	20.63	20.62	20.61
3	64QAM	8	7	20.58	20.57	20.59
3	64QAM	15	0	20.49	20.50	20.51



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3
1.4	QPSK	1	0	23.15	23.59	23.27
1.4	QPSK	1	3	23.35	23.58	23.30
1.4	QPSK	1	5	23.29	23.57	23.28
1.4	QPSK	3	0	23.24	23.52	23.26
1.4	QPSK	3	1	23.29	23.53	23.25
1.4	QPSK	3	3	23.27	23.50	23.26
1.4	QPSK	6	0	22.33	22.65	22.35
1.4	16QAM	1	0	22.31	22.67	22.61
1.4	16QAM	1	3	22.55	22.56	22.54
1.4	16QAM	1	5	22.25	22.51	22.27
1.4	16QAM	3	0	22.25	22.48	22.26
1.4	16QAM	3	1	22.40	22.39	22.21
1.4	16QAM	3	3	22.42	22.51	22.20
1.4	16QAM	6	0	21.53	21.68	21.52
1.4	64QAM	1	0	20.00	21.67	21.57
1.4	64QAM	1	3	20.59	21.57	21.51
1.4	64QAM	1	5	20.87	21.51	21.47
1.4	64QAM	3	0	20.54	21.19	21.26
1.4	64QAM	3	1	20.63	21.14	21.18
1.4	64QAM	3	3	20.74	21.04	21.05
1.4	64QAM	6	0	20.45	20.71	20.38



LTE Band 71						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				133222	133322	133372
Frequency (MHz)				673	683	688
20	QPSK	1	0	24.51	24.75	24.01
20	QPSK	1	49	24.30	23.98	23.59
20	QPSK	1	99	23.75	23.62	23.34
20	QPSK	50	0	23.77	23.30	22.92
20	QPSK	50	24	23.53	23.09	22.74
20	QPSK	50	50	23.15	22.73	22.51
20	QPSK	100	0	23.51	23.02	22.71
20	16QAM	1	0	24.44	23.92	23.61
20	16QAM	1	49	23.89	23.61	23.23
20	16QAM	1	99	23.54	23.16	22.77
20	16QAM	50	0	22.80	22.31	21.90
20	16QAM	50	24	22.51	22.04	21.71
20	16QAM	50	50	22.15	21.87	21.53
20	16QAM	100	0	22.52	22.19	21.75
20	64QAM	1	0	21.71	21.95	21.21
20	64QAM	1	49	21.50	21.18	21.16
20	64QAM	1	99	21.43	21.15	21.14
20	64QAM	50	0	20.97	20.50	20.12
20	64QAM	50	24	20.73	20.29	19.94
20	64QAM	50	50	20.35	19.93	19.71
20	64QAM	100	0	20.71	20.22	19.91



LTE Band 71						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				133197	133297	133397
Frequency (MHz)				670.8	680.5	690.5
15	QPSK	1	0	24.21	24.37	23.60
15	QPSK	1	37	23.89	23.57	23.18
15	QPSK	1	74	23.34	23.21	22.93
15	QPSK	36	0	23.36	22.89	22.51
15	QPSK	36	20	23.12	22.68	22.33
15	QPSK	36	39	22.74	22.32	22.10
15	QPSK	75	0	23.10	22.61	22.30
15	16QAM	1	0	23.52	23.51	23.20
15	16QAM	1	37	23.48	23.20	22.82
15	16QAM	1	74	23.13	22.75	22.36
15	16QAM	36	0	22.39	21.90	21.49
15	16QAM	36	20	22.10	21.63	21.30
15	16QAM	36	39	21.74	21.46	21.12
15	16QAM	75	0	22.11	21.78	21.34
15	64QAM	1	0	21.23	20.71	20.40
15	64QAM	1	37	20.68	20.40	20.02
15	64QAM	1	74	20.33	19.95	19.56
15	64QAM	36	0	19.59	19.10	18.69
15	64QAM	36	20	19.30	18.83	18.50
15	64QAM	36	39	18.94	18.66	18.32
15	64QAM	75	0	19.31	18.98	18.54



LTE Band 71						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				133172	133272	133422
Frequency (MHz)				668	678	693
10	QPSK	1	0	23.79	24.23	23.46
10	QPSK	1	25	23.75	23.43	23.04
10	QPSK	1	49	23.20	23.07	22.79
10	QPSK	25	0	23.22	22.75	22.37
10	QPSK	25	12	22.98	22.54	22.19
10	QPSK	25	25	22.60	22.18	21.96
10	QPSK	50	0	22.96	22.47	22.16
10	16QAM	1	0	23.89	23.37	23.06
10	16QAM	1	25	23.34	23.06	22.68
10	16QAM	1	49	22.99	22.61	22.22
10	16QAM	25	0	22.25	21.76	21.35
10	16QAM	25	12	21.96	21.49	21.16
10	16QAM	25	25	21.60	21.32	20.98
10	16QAM	50	0	21.97	21.64	21.20
10	64QAM	1	0	20.79	20.27	19.96
10	64QAM	1	25	20.24	19.96	19.58
10	64QAM	1	49	19.89	19.51	19.12
10	64QAM	25	0	19.15	18.66	18.25
10	64QAM	25	12	18.86	18.39	18.06
10	64QAM	25	25	18.50	18.22	17.88
10	64QAM	50	0	18.87	18.54	18.10



LTE Band 71						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				133147	133247	133447
Frequency (MHz)				665.5	675.5	695.5
5	QPSK	1	0	23.81	24.10	23.33
5	QPSK	1	12	23.62	23.30	22.91
5	QPSK	1	24	23.07	22.94	22.66
5	QPSK	12	0	23.09	22.62	22.24
5	QPSK	12	7	22.85	22.41	22.06
5	QPSK	12	13	22.47	22.05	21.83
5	QPSK	25	0	22.83	22.34	22.03
5	16QAM	1	0	23.76	23.24	22.93
5	16QAM	1	12	23.21	22.93	22.55
5	16QAM	1	24	22.86	22.48	22.09
5	16QAM	12	0	22.12	21.63	21.22
5	16QAM	12	7	21.83	21.36	21.03
5	16QAM	12	13	21.47	21.19	20.85
5	16QAM	25	0	21.84	21.51	21.07
5	64QAM	1	0	20.81	20.29	19.98
5	64QAM	1	12	20.26	19.98	19.60
5	64QAM	1	24	19.91	19.53	19.14
5	64QAM	12	0	19.17	18.68	18.27
5	64QAM	12	7	18.88	18.41	18.08
5	64QAM	12	13	18.52	18.24	17.90
5	64QAM	25	0	18.89	18.56	18.12



LTE Band 71						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				133237	133397	133557
Frequency (MHz)				664.5	680.5	696.5
3	QPSK	1	0	23.71	24.08	23.31
3	QPSK	1	8	23.60	23.28	22.89
3	QPSK	1	14	23.05	22.92	22.64
3	QPSK	8	0	23.07	22.60	22.22
3	QPSK	8	4	22.83	22.39	22.04
3	QPSK	8	7	22.45	22.03	21.81
3	QPSK	15	0	22.81	22.32	22.01
3	16QAM	1	0	23.74	23.22	22.91
3	16QAM	1	8	23.19	22.91	22.53
3	16QAM	1	14	22.84	22.46	22.07
3	16QAM	8	0	22.10	21.61	21.20
3	16QAM	8	4	21.81	21.34	21.01
3	16QAM	8	7	21.45	21.17	20.83
3	16QAM	15	0	21.82	21.49	21.05
3	64QAM	1	0	20.84	20.32	20.01
3	64QAM	1	8	20.29	20.01	19.63
3	64QAM	1	14	19.94	19.56	19.17
3	64QAM	8	0	19.20	18.71	18.30
3	64QAM	8	4	18.91	18.44	18.11
3	64QAM	8	7	18.55	18.27	17.93
3	64QAM	15	0	18.92	18.59	18.15



LTE Band 71						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				133229	133397	133565
Frequency (MHz)				663.7	680.5	697.3
1.4	QPSK	1	0	23.61	23.88	23.11
1.4	QPSK	1	3	23.40	23.08	22.69
1.4	QPSK	1	5	22.85	22.72	22.44
1.4	QPSK	3	0	22.87	22.40	22.02
1.4	QPSK	3	1	22.63	22.19	21.84
1.4	QPSK	3	3	22.25	21.83	21.61
1.4	QPSK	6	0	22.61	22.12	21.81
1.4	16QAM	1	0	23.54	23.02	22.71
1.4	16QAM	1	3	22.99	22.71	22.33
1.4	16QAM	1	5	22.64	22.26	21.87
1.4	16QAM	3	0	21.90	21.41	21.00
1.4	16QAM	3	1	21.61	21.14	20.81
1.4	16QAM	3	3	21.25	20.97	20.63
1.4	16QAM	6	0	21.62	21.29	20.85
1.4	64QAM	1	0	20.64	20.12	19.81
1.4	64QAM	1	3	20.09	19.81	19.43
1.4	64QAM	1	5	19.74	19.36	18.97
1.4	64QAM	3	0	19.00	18.51	18.10
1.4	64QAM	3	1	18.71	18.24	17.91
1.4	64QAM	3	3	18.35	18.07	17.73
1.4	64QAM	6	0	18.72	18.39	17.95



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	27.14	0.518	27.23	0.528	27.23	0.528
20	QPSK	1	49	27.08	0.511	27.09	0.512	27.06	0.508
20	QPSK	1	99	27.04	0.506	27.22	0.527	27.16	0.520
20	QPSK	50	0	26.13	0.410	26.19	0.416	26.18	0.415
20	QPSK	50	24	26.21	0.418	26.17	0.414	26.21	0.418
20	QPSK	50	50	26.2	0.417	26.22	0.419	26.17	0.414
20	QPSK	100	0	26.25	0.422	26.22	0.419	26.08	0.406
20	16QAM	1	0	26.46	0.443	26.07	0.405	26.46	0.443
20	16QAM	1	49	26.13	0.410	26.65	0.462	26.42	0.439
20	16QAM	1	99	26.34	0.431	26.72	0.470	25.91	0.390
20	16QAM	50	0	25.12	0.325	25.24	0.334	25.17	0.329
20	16QAM	50	24	25.32	0.340	25.19	0.330	25.21	0.332
20	16QAM	50	50	25.33	0.341	25.21	0.332	25.27	0.337
20	16QAM	100	0	25.28	0.337	25.21	0.332	25.08	0.322
20	64QAM	1	0	24.38	0.274	24.13	0.259	24.46	0.279
20	64QAM	1	49	24.14	0.259	24.19	0.262	24.28	0.268
20	64QAM	1	99	24.18	0.262	24.52	0.283	24.58	0.287
20	64QAM	50	0	24.18	0.262	24.25	0.266	24.19	0.262
20	64QAM	50	24	24.28	0.268	24.14	0.259	24.29	0.269
20	64QAM	50	50	24.29	0.269	24.34	0.272	24.27	0.267
20	64QAM	100	0	24.35	0.272	24.26	0.267	24.21	0.264



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	27.15	0.519	27.18	0.522	27.16	0.520
15	QPSK	1	37	27.17	0.521	27.17	0.521	27.17	0.521
15	QPSK	1	74	27.11	0.514	27.16	0.520	27.17	0.521
15	QPSK	36	0	26.27	0.424	26.26	0.423	26.19	0.416
15	QPSK	36	20	26.31	0.428	26.25	0.422	26.31	0.428
15	QPSK	36	39	26.27	0.424	26.37	0.434	26.22	0.419
15	QPSK	75	0	26.34	0.431	26.16	0.413	26.25	0.422
15	16QAM	1	0	26.42	0.439	26.62	0.459	26.76	0.474
15	16QAM	1	37	26.55	0.452	26.47	0.444	26.30	0.427
15	16QAM	1	74	26.36	0.433	26.67	0.465	26.62	0.459
15	16QAM	36	0	25.28	0.337	25.26	0.336	25.17	0.329
15	16QAM	36	20	25.38	0.345	25.28	0.337	25.31	0.340
15	16QAM	36	39	25.30	0.339	25.26	0.336	25.32	0.340
15	16QAM	75	0	25.14	0.327	25.26	0.336	25.26	0.336
15	64QAM	1	0	23.89	0.245	24.27	0.267	24.14	0.259
15	64QAM	1	37	24.44	0.278	24.29	0.269	24.29	0.269
15	64QAM	1	74	24.44	0.278	24.37	0.274	24.38	0.274
15	64QAM	36	0	24.22	0.264	24.27	0.267	24.18	0.262
15	64QAM	36	20	24.30	0.269	24.26	0.267	24.33	0.271
15	64QAM	36	39	24.37	0.274	24.20	0.263	24.31	0.270
15	64QAM	75	0	24.21	0.264	24.25	0.266	24.29	0.269



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	27.30	0.537	27.30	0.537	27.26	0.532
10	QPSK	1	25	27.06	0.508	27.11	0.514	27.10	0.513
10	QPSK	1	49	26.94	0.494	27.09	0.512	27.18	0.522
10	QPSK	25	0	26.23	0.420	26.10	0.407	26.01	0.399
10	QPSK	25	12	26.24	0.421	26.22	0.419	26.16	0.413
10	QPSK	25	25	26.18	0.415	26.21	0.418	26.22	0.419
10	QPSK	50	0	26.22	0.419	26.21	0.418	26.06	0.404
10	16QAM	1	0	26.40	0.437	26.16	0.413	26.47	0.444
10	16QAM	1	25	26.49	0.446	26.66	0.463	26.51	0.448
10	16QAM	1	49	26.66	0.463	26.34	0.431	26.43	0.440
10	16QAM	25	0	25.23	0.333	25.16	0.328	25.08	0.322
10	16QAM	25	12	25.15	0.327	25.21	0.332	25.22	0.333
10	16QAM	25	25	25.18	0.330	25.22	0.333	25.19	0.330
10	16QAM	50	0	25.18	0.330	25.25	0.335	25.19	0.330
10	64QAM	1	0	24.03	0.253	24.29	0.269	24.64	0.291
10	64QAM	1	25	24.15	0.260	24.52	0.283	24.27	0.267
10	64QAM	1	49	24.43	0.277	24.41	0.276	24.63	0.290
10	64QAM	25	0	24.37	0.274	24.09	0.256	24.21	0.264
10	64QAM	25	12	24.22	0.264	24.25	0.266	24.16	0.261
10	64QAM	25	25	24.35	0.272	24.21	0.264	24.26	0.267
10	64QAM	50	0	24.31	0.270	24.17	0.261	24.23	0.265



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	27.01	0.502	27.21	0.526	27.07	0.509
5	QPSK	1	12	27.20	0.525	27.18	0.522	27.06	0.508
5	QPSK	1	24	27.17	0.521	27.06	0.508	27.06	0.508
5	QPSK	12	0	26.16	0.413	26.17	0.414	26.16	0.413
5	QPSK	12	7	26.18	0.415	26.22	0.419	26.24	0.421
5	QPSK	12	13	26.19	0.416	26.21	0.418	26.15	0.412
5	QPSK	25	0	26.11	0.408	26.10	0.407	26.12	0.409
5	16QAM	1	0	26.11	0.408	25.97	0.395	26.14	0.411
5	16QAM	1	12	26.08	0.406	26.20	0.417	26.11	0.408
5	16QAM	1	24	26.06	0.404	26.61	0.458	26.08	0.406
5	16QAM	12	0	25.25	0.335	25.16	0.328	25.20	0.331
5	16QAM	12	7	25.21	0.332	25.28	0.337	25.20	0.331
5	16QAM	12	13	25.16	0.328	25.28	0.337	25.25	0.335
5	16QAM	25	0	25.12	0.325	25.15	0.327	25.18	0.330
5	64QAM	1	0	24.81	0.303	24.05	0.254	24.21	0.264
5	64QAM	1	12	24.28	0.268	24.43	0.277	24.47	0.280
5	64QAM	1	24	24.01	0.252	24.49	0.281	24.22	0.264
5	64QAM	12	0	24.28	0.268	24.21	0.264	24.34	0.272
5	64QAM	12	7	24.25	0.266	24.14	0.259	24.22	0.264
5	64QAM	12	13	24.09	0.256	24.26	0.267	24.25	0.266
5	64QAM	25	0	24.24	0.265	24.14	0.259	24.17	0.261



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	26.89	0.489	26.75	0.473	26.80	0.479
3	QPSK	1	8	26.85	0.484	26.95	0.495	26.96	0.497
3	QPSK	1	14	26.80	0.479	26.74	0.472	26.88	0.488
3	QPSK	8	0	25.92	0.391	25.88	0.387	25.88	0.387
3	QPSK	8	4	25.89	0.388	25.91	0.390	25.94	0.393
3	QPSK	8	7	25.86	0.385	25.89	0.388	25.87	0.386
3	QPSK	15	0	25.91	0.390	25.83	0.383	25.89	0.388
3	16QAM	1	0	25.94	0.393	26.25	0.422	26.42	0.439
3	16QAM	1	8	26.24	0.421	26.27	0.424	26.26	0.423
3	16QAM	1	14	25.94	0.393	25.95	0.394	26.23	0.420
3	16QAM	8	0	25.04	0.319	24.96	0.313	24.92	0.310
3	16QAM	8	4	24.95	0.313	25.02	0.318	25.01	0.317
3	16QAM	8	7	24.97	0.314	25.06	0.321	25.06	0.321
3	16QAM	15	0	25.05	0.320	24.87	0.307	24.78	0.301
3	64QAM	1	0	23.99	0.251	24.03	0.253	24.36	0.273
3	64QAM	1	8	24.30	0.269	24.31	0.270	24.39	0.275
3	64QAM	1	14	24.10	0.257	23.89	0.245	24.32	0.270
3	64QAM	8	0	23.95	0.248	23.86	0.243	23.87	0.244
3	64QAM	8	4	23.86	0.243	24.10	0.257	24.01	0.252
3	64QAM	8	7	23.99	0.251	24.11	0.258	23.88	0.244
3	64QAM	15	0	23.92	0.247	23.98	0.250	23.87	0.244



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	26.79	0.478	26.85	0.484	26.81	0.480
1.4	QPSK	1	3	26.78	0.476	26.82	0.481	26.79	0.478
1.4	QPSK	1	5	26.75	0.473	26.79	0.478	26.75	0.473
1.4	QPSK	3	0	26.79	0.478	26.76	0.474	26.73	0.471
1.4	QPSK	3	1	26.83	0.482	26.85	0.484	26.75	0.473
1.4	QPSK	3	3	26.75	0.473	26.77	0.475	26.74	0.472
1.4	QPSK	6	0	25.78	0.378	25.94	0.393	25.79	0.379
1.4	16QAM	1	0	25.77	0.378	25.97	0.395	26.23	0.420
1.4	16QAM	1	3	26.03	0.401	26.21	0.418	25.89	0.388
1.4	16QAM	1	5	26.00	0.398	26.06	0.404	25.83	0.383
1.4	16QAM	3	0	25.82	0.382	25.89	0.388	26.01	0.399
1.4	16QAM	3	1	25.94	0.393	25.93	0.392	25.95	0.394
1.4	16QAM	3	3	25.85	0.385	25.81	0.381	25.93	0.392
1.4	16QAM	6	0	24.87	0.307	25.07	0.321	24.89	0.308
1.4	64QAM	1	0	23.93	0.247	24.61	0.289	23.94	0.248
1.4	64QAM	1	3	23.94	0.248	24.01	0.252	24.21	0.264
1.4	64QAM	1	5	24.54	0.284	23.81	0.240	24.43	0.277
1.4	64QAM	3	0	24.14	0.259	23.98	0.250	23.92	0.247
1.4	64QAM	3	1	23.82	0.241	23.85	0.243	23.93	0.247
1.4	64QAM	3	3	24.04	0.254	24.08	0.256	23.76	0.238
1.4	64QAM	6	0	24.01	0.252	24.02	0.252	23.82	0.241



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	26.73	0.471	27.03	0.505	27.02	0.504
20	QPSK	1	49	26.65	0.462	26.99	0.500	27.00	0.501
20	QPSK	1	99	26.73	0.471	26.98	0.499	27.01	0.502
20	QPSK	50	0	25.72	0.373	26.02	0.400	26.00	0.398
20	QPSK	50	24	25.94	0.393	25.93	0.392	25.94	0.393
20	QPSK	50	50	25.83	0.383	25.99	0.397	25.95	0.394
20	QPSK	100	0	25.90	0.389	26.03	0.401	25.97	0.395
20	16QAM	1	0	26.07	0.405	26.10	0.407	26.46	0.443
20	16QAM	1	49	25.63	0.366	26.12	0.409	26.35	0.432
20	16QAM	1	99	26.25	0.422	25.83	0.383	25.81	0.381
20	16QAM	50	0	24.93	0.311	25.01	0.317	25.15	0.327
20	16QAM	50	24	24.86	0.306	24.99	0.316	24.99	0.316
20	16QAM	50	50	24.80	0.302	25.00	0.316	25.01	0.317
20	16QAM	100	0	24.82	0.303	24.98	0.315	25.10	0.324
20	64QAM	1	0	23.84	0.242	24.17	0.261	24.30	0.269
20	64QAM	1	49	24.05	0.254	24.47	0.280	24.00	0.251
20	64QAM	1	99	24.27	0.267	24.17	0.261	24.05	0.254
20	64QAM	50	0	23.76	0.238	24.08	0.256	24.03	0.253
20	64QAM	50	24	23.97	0.249	24.07	0.255	24.06	0.255
20	64QAM	50	50	23.97	0.249	23.93	0.247	23.88	0.244
20	64QAM	100	0	23.98	0.250	23.93	0.247	24.06	0.255



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	26.85	0.484	27.23	0.528	27.19	0.524
15	QPSK	1	37	26.70	0.468	27.10	0.513	27.19	0.524
15	QPSK	1	74	26.95	0.495	27.07	0.509	27.18	0.522
15	QPSK	36	0	25.87	0.386	26.12	0.409	26.10	0.407
15	QPSK	36	20	25.96	0.394	26.06	0.404	26.03	0.401
15	QPSK	36	39	25.95	0.394	26.12	0.409	26.11	0.408
15	QPSK	75	0	25.96	0.394	26.14	0.411	26.16	0.413
15	16QAM	1	0	26.46	0.443	26.16	0.413	26.74	0.472
15	16QAM	1	37	25.96	0.394	26.08	0.406	26.67	0.465
15	16QAM	1	74	26.44	0.441	26.23	0.420	26.58	0.455
15	16QAM	36	0	25.00	0.316	25.14	0.327	25.12	0.325
15	16QAM	36	20	25.02	0.318	25.15	0.327	25.02	0.318
15	16QAM	36	39	24.92	0.310	25.14	0.327	25.08	0.322
15	16QAM	75	0	24.99	0.316	25.02	0.318	25.23	0.333
15	64QAM	1	0	24.12	0.258	24.31	0.270	23.92	0.247
15	64QAM	1	37	24.10	0.257	24.01	0.252	24.34	0.272
15	64QAM	1	74	23.94	0.248	23.93	0.247	24.67	0.293
15	64QAM	36	0	23.97	0.249	24.11	0.258	24.19	0.262
15	64QAM	36	20	24.02	0.252	24.11	0.258	24.03	0.253
15	64QAM	36	39	23.93	0.247	24.19	0.262	24.06	0.255
15	64QAM	75	0	24.06	0.255	24.09	0.256	24.07	0.255



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	26.80	0.479	27.07	0.509	27.06	0.508
10	QPSK	1	25	26.66	0.463	26.96	0.497	27.05	0.507
10	QPSK	1	49	26.77	0.475	26.95	0.495	27.05	0.507
10	QPSK	25	0	25.82	0.382	25.92	0.391	26.07	0.405
10	QPSK	25	12	25.77	0.378	26.04	0.402	26.12	0.409
10	QPSK	25	25	25.89	0.388	26.10	0.407	26.10	0.407
10	QPSK	50	0	25.87	0.386	26.04	0.402	25.95	0.394
10	16QAM	1	0	26.28	0.425	26.50	0.447	26.29	0.426
10	16QAM	1	25	26.10	0.407	26.49	0.446	26.33	0.430
10	16QAM	1	49	26.12	0.409	26.65	0.462	26.10	0.407
10	16QAM	25	0	24.72	0.296	24.98	0.315	25.01	0.317
10	16QAM	25	12	24.84	0.305	25.11	0.324	25.16	0.328
10	16QAM	25	25	24.88	0.308	25.22	0.333	25.12	0.325
10	16QAM	50	0	24.81	0.303	25.03	0.318	25.13	0.326
10	64QAM	1	0	24.00	0.251	24.09	0.256	24.44	0.278
10	64QAM	1	25	24.22	0.264	24.25	0.266	24.14	0.259
10	64QAM	1	49	23.60	0.229	24.22	0.264	24.47	0.280
10	64QAM	25	0	23.79	0.239	23.99	0.251	24.16	0.261
10	64QAM	25	12	23.81	0.240	23.97	0.249	24.10	0.257
10	64QAM	25	25	24.04	0.254	24.19	0.262	24.08	0.256
10	64QAM	50	0	23.96	0.249	24.08	0.256	23.92	0.247



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	26.67	0.465	27.04	0.506	27.03	0.505
5	QPSK	1	12	26.95	0.495	27.03	0.505	27.02	0.504
5	QPSK	1	24	26.77	0.475	27.00	0.501	27.01	0.502
5	QPSK	12	0	25.92	0.391	26.03	0.401	26.15	0.412
5	QPSK	12	7	25.95	0.394	26.06	0.404	26.14	0.411
5	QPSK	12	13	25.90	0.389	26.14	0.411	26.13	0.410
5	QPSK	25	0	25.92	0.391	26.03	0.401	26.10	0.407
5	16QAM	1	0	26.10	0.407	26.20	0.417	26.68	0.466
5	16QAM	1	12	26.18	0.415	26.31	0.428	26.40	0.437
5	16QAM	1	24	26.17	0.414	26.66	0.463	26.39	0.436
5	16QAM	12	0	24.95	0.313	25.12	0.325	25.12	0.325
5	16QAM	12	7	24.99	0.316	25.19	0.330	25.19	0.330
5	16QAM	12	13	25.09	0.323	25.18	0.330	25.19	0.330
5	16QAM	25	0	24.89	0.308	25.12	0.325	25.12	0.325
5	64QAM	1	0	24.48	0.281	24.11	0.258	24.43	0.277
5	64QAM	1	12	24.58	0.287	24.18	0.262	24.12	0.258
5	64QAM	1	24	24.32	0.270	24.47	0.280	24.64	0.291
5	64QAM	12	0	23.92	0.247	24.24	0.265	24.30	0.269
5	64QAM	12	7	23.91	0.246	24.19	0.262	24.12	0.258
5	64QAM	12	13	23.88	0.244	24.25	0.266	24.24	0.265
5	64QAM	25	0	23.88	0.244	24.04	0.254	24.16	0.261



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	27.05	0.507	27.40	0.550	27.38	0.547
3	QPSK	1	8	27.18	0.522	27.39	0.548	27.37	0.546
3	QPSK	1	14	27.14	0.518	27.33	0.541	27.32	0.540
3	QPSK	8	0	26.13	0.410	26.49	0.446	26.48	0.445
3	QPSK	8	4	26.10	0.407	26.46	0.443	26.47	0.444
3	QPSK	8	7	26.10	0.407	26.44	0.441	26.46	0.443
3	QPSK	15	0	26.15	0.412	26.38	0.435	26.44	0.441
3	16QAM	1	0	26.43	0.440	26.55	0.452	26.56	0.453
3	16QAM	1	8	26.38	0.435	26.48	0.445	26.49	0.446
3	16QAM	1	14	26.48	0.445	26.28	0.425	26.22	0.419
3	16QAM	8	0	25.15	0.327	25.53	0.357	25.54	0.358
3	16QAM	8	4	25.06	0.321	25.52	0.356	25.53	0.357
3	16QAM	8	7	25.19	0.330	25.51	0.356	25.51	0.356
3	16QAM	15	0	25.19	0.330	25.50	0.355	25.49	0.354
3	64QAM	1	0	24.15	0.260	24.76	0.299	24.71	0.296
3	64QAM	1	8	24.48	0.281	24.61	0.289	24.63	0.290
3	64QAM	1	14	24.33	0.271	24.33	0.271	24.34	0.272
3	64QAM	8	0	24.11	0.258	24.19	0.262	24.21	0.264
3	64QAM	8	4	24.17	0.261	24.18	0.262	24.17	0.261
3	64QAM	8	7	24.20	0.263	24.19	0.262	24.18	0.262
3	64QAM	15	0	24.21	0.264	24.35	0.272	24.29	0.269



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	26.85	0.484	27.24	0.530	27.20	0.525
1.4	QPSK	1	3	26.98	0.499	27.13	0.516	27.09	0.512
1.4	QPSK	1	5	26.93	0.493	26.97	0.498	26.95	0.495
1.4	QPSK	3	0	26.87	0.486	26.95	0.495	26.94	0.494
1.4	QPSK	3	1	26.90	0.490	26.92	0.492	26.91	0.491
1.4	QPSK	3	3	26.85	0.484	26.83	0.482	26.82	0.481
1.4	QPSK	6	0	25.93	0.392	26.35	0.432	26.30	0.427
1.4	16QAM	1	0	26.42	0.439	26.32	0.429	26.28	0.425
1.4	16QAM	1	3	26.16	0.413	26.30	0.427	26.27	0.424
1.4	16QAM	1	5	26.33	0.430	26.29	0.426	26.22	0.419
1.4	16QAM	3	0	25.84	0.384	26.19	0.416	26.16	0.413
1.4	16QAM	3	1	26.08	0.406	26.13	0.410	26.09	0.406
1.4	16QAM	3	3	26.02	0.400	26.03	0.401	26.02	0.400
1.4	16QAM	6	0	25.00	0.316	25.35	0.343	25.37	0.344
1.4	64QAM	1	0	24.66	0.292	24.55	0.285	24.65	0.292
1.4	64QAM	1	3	24.27	0.267	24.49	0.281	24.53	0.284
1.4	64QAM	1	5	24.05	0.254	24.45	0.279	24.49	0.281
1.4	64QAM	3	0	24.18	0.262	24.37	0.274	24.48	0.281
1.4	64QAM	3	1	23.99	0.251	24.33	0.271	24.45	0.279
1.4	64QAM	3	3	23.95	0.248	24.31	0.270	24.42	0.277
1.4	64QAM	6	0	24.05	0.254	24.31	0.270	24.41	0.276



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	20.63	0.116	20.64	0.116	20.62	0.115
10	QPSK	1	25	20.55	0.114	20.59	0.115	20.54	0.113
10	QPSK	1	49	20.63	0.116	20.56	0.114	20.44	0.111
10	QPSK	25	0	19.56	0.090	19.49	0.089	19.64	0.092
10	QPSK	25	12	19.64	0.092	19.65	0.092	19.60	0.091
10	QPSK	25	25	19.55	0.090	19.51	0.089	19.53	0.090
10	QPSK	50	0	19.62	0.092	19.63	0.092	19.68	0.093
10	16QAM	1	0	19.65	0.092	19.72	0.094	19.98	0.100
10	16QAM	1	25	19.57	0.091	19.95	0.099	19.99	0.100
10	16QAM	1	49	19.69	0.093	19.97	0.099	19.60	0.091
10	16QAM	25	0	18.60	0.072	18.45	0.070	18.58	0.072
10	16QAM	25	12	18.56	0.072	18.66	0.073	18.60	0.072
10	16QAM	25	25	18.62	0.073	18.60	0.072	18.64	0.073
10	16QAM	50	0	18.69	0.074	18.63	0.073	18.60	0.072
10	64QAM	1	0	18.17	0.066	17.82	0.061	18.05	0.064
10	64QAM	1	25	17.54	0.057	17.81	0.060	17.75	0.060
10	64QAM	1	49	17.68	0.059	18.03	0.064	17.24	0.053
10	64QAM	25	0	17.60	0.058	17.67	0.058	17.62	0.058
10	64QAM	25	12	17.66	0.058	17.70	0.059	17.64	0.058
10	64QAM	25	25	17.85	0.061	17.53	0.057	17.55	0.057
10	64QAM	50	0	17.60	0.058	17.59	0.057	17.46	0.056



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	20.27	0.106	20.49	0.112	20.45	0.111
5	QPSK	1	12	20.17	0.104	20.41	0.110	20.44	0.111
5	QPSK	1	24	20.25	0.106	20.34	0.108	20.44	0.111
5	QPSK	12	0	19.41	0.087	19.42	0.087	19.51	0.089
5	QPSK	12	7	19.37	0.086	19.45	0.088	19.46	0.088
5	QPSK	12	13	19.24	0.084	19.37	0.086	19.40	0.087
5	QPSK	25	0	19.31	0.085	19.43	0.088	19.42	0.087
5	16QAM	1	0	19.93	0.098	19.63	0.092	19.44	0.088
5	16QAM	1	12	19.65	0.092	19.70	0.093	19.95	0.099
5	16QAM	1	24	19.58	0.091	19.69	0.093	19.83	0.096
5	16QAM	12	0	18.48	0.070	18.33	0.068	18.59	0.072
5	16QAM	12	7	18.28	0.067	18.37	0.069	18.43	0.070
5	16QAM	12	13	18.29	0.067	18.31	0.068	18.51	0.071
5	16QAM	25	0	18.34	0.068	18.35	0.068	18.45	0.070
5	64QAM	1	0	17.41	0.055	17.36	0.054	17.65	0.058
5	64QAM	1	12	17.36	0.054	17.34	0.054	17.65	0.058
5	64QAM	1	24	17.32	0.054	17.31	0.054	17.65	0.058
5	64QAM	12	0	17.28	0.053	17.35	0.054	17.59	0.057
5	64QAM	12	7	17.46	0.056	17.22	0.053	17.57	0.057
5	64QAM	12	13	17.32	0.054	17.25	0.053	17.36	0.054
5	64QAM	25	0	17.46	0.056	17.25	0.053	17.50	0.056



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	20.46	0.111	20.48	0.112	20.44	0.111
3	QPSK	1	8	20.35	0.108	20.37	0.109	20.42	0.110
3	QPSK	1	14	20.34	0.108	20.34	0.108	20.35	0.108
3	QPSK	8	0	19.56	0.090	19.42	0.087	19.60	0.091
3	QPSK	8	4	19.60	0.091	19.45	0.088	19.63	0.092
3	QPSK	8	7	19.54	0.090	19.37	0.086	19.61	0.091
3	QPSK	15	0	19.53	0.090	19.43	0.088	19.60	0.091
3	16QAM	1	0	20.01	0.100	19.63	0.092	19.79	0.095
3	16QAM	1	8	19.72	0.094	19.70	0.093	19.76	0.095
3	16QAM	1	14	19.55	0.090	19.52	0.090	19.64	0.092
3	16QAM	8	0	18.65	0.073	18.33	0.068	18.64	0.073
3	16QAM	8	4	18.56	0.072	18.37	0.069	18.65	0.073
3	16QAM	8	7	18.61	0.073	18.31	0.068	18.66	0.073
3	16QAM	15	0	18.58	0.072	18.35	0.068	18.61	0.073
3	64QAM	1	0	18.01	0.063	17.36	0.054	17.84	0.061
3	64QAM	1	8	18.06	0.064	17.22	0.053	18.08	0.064
3	64QAM	1	14	17.75	0.060	17.05	0.051	17.78	0.060
3	64QAM	8	0	17.67	0.058	17.35	0.054	17.67	0.058
3	64QAM	8	4	17.52	0.056	17.22	0.053	17.68	0.059
3	64QAM	8	7	17.77	0.060	17.25	0.053	17.67	0.058
3	64QAM	15	0	17.53	0.057	17.25	0.053	17.67	0.058



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	20.39	0.109	20.52	0.113	20.42	0.110
1.4	QPSK	1	3	20.51	0.112	20.40	0.110	20.41	0.110
1.4	QPSK	1	5	20.34	0.108	20.36	0.109	20.33	0.108
1.4	QPSK	3	0	20.44	0.111	20.34	0.108	20.36	0.109
1.4	QPSK	3	1	20.50	0.112	20.31	0.107	20.48	0.112
1.4	QPSK	3	3	20.45	0.111	20.26	0.106	20.44	0.111
1.4	QPSK	6	0	19.53	0.090	19.44	0.088	19.46	0.088
1.4	16QAM	1	0	19.73	0.094	19.77	0.095	19.91	0.098
1.4	16QAM	1	3	19.75	0.094	19.76	0.095	19.75	0.094
1.4	16QAM	1	5	19.67	0.093	19.68	0.093	19.68	0.093
1.4	16QAM	3	0	19.50	0.089	19.58	0.091	19.56	0.090
1.4	16QAM	3	1	19.54	0.090	19.55	0.090	19.53	0.090
1.4	16QAM	3	3	19.66	0.092	19.67	0.093	19.65	0.092
1.4	16QAM	6	0	18.68	0.074	18.51	0.071	18.67	0.074
1.4	64QAM	1	0	17.86	0.061	17.61	0.058	17.78	0.060
1.4	64QAM	1	3	17.63	0.058	17.59	0.057	17.60	0.058
1.4	64QAM	1	5	17.93	0.062	17.58	0.057	17.63	0.058
1.4	64QAM	3	0	17.62	0.058	17.54	0.057	17.58	0.057
1.4	64QAM	3	1	17.71	0.059	17.55	0.057	17.65	0.058
1.4	64QAM	3	3	17.65	0.058	17.56	0.057	17.63	0.058
1.4	64QAM	6	0	17.73	0.059	17.56	0.057	17.62	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				23060		23095		23130	
Frequency (MHz)				704		707.5		711	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	20.07	0.102	20.09	0.102	20.06	0.101
10	QPSK	1	25	19.80	0.095	19.91	0.098	19.87	0.097
10	QPSK	1	49	19.78	0.095	19.79	0.095	19.78	0.095
10	QPSK	25	0	18.90	0.078	18.99	0.079	18.92	0.078
10	QPSK	25	12	19.07	0.081	18.87	0.077	18.81	0.076
10	QPSK	25	25	19.02	0.080	18.82	0.076	18.90	0.078
10	QPSK	50	0	18.91	0.078	18.93	0.078	18.94	0.078
10	16QAM	1	0	19.10	0.081	18.68	0.074	19.13	0.082
10	16QAM	1	25	19.24	0.084	19.30	0.085	19.20	0.083
10	16QAM	1	49	19.35	0.086	18.99	0.079	19.24	0.084
10	16QAM	25	0	17.98	0.063	17.97	0.063	17.98	0.063
10	16QAM	25	12	18.12	0.065	17.86	0.061	17.91	0.062
10	16QAM	25	25	18.16	0.065	17.88	0.061	18.02	0.063
10	16QAM	50	0	17.97	0.063	17.92	0.062	17.97	0.063
10	64QAM	1	0	17.55	0.057	16.95	0.050	17.11	0.051
10	64QAM	1	25	17.46	0.056	16.84	0.048	17.17	0.052
10	64QAM	1	49	17.10	0.051	17.20	0.052	16.95	0.050
10	64QAM	25	0	17.02	0.050	17.00	0.050	16.94	0.049
10	64QAM	25	12	16.97	0.050	16.89	0.049	16.93	0.049
10	64QAM	25	25	16.97	0.050	17.03	0.050	16.80	0.048
10	64QAM	50	0	16.97	0.050	16.97	0.050	16.84	0.048



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	19.81	0.096	20.04	0.101	19.91	0.098
5	QPSK	1	12	19.93	0.098	19.97	0.099	19.84	0.096
5	QPSK	1	24	20.02	0.100	19.81	0.096	19.78	0.095
5	QPSK	12	0	19.01	0.080	18.88	0.077	18.84	0.077
5	QPSK	12	7	18.95	0.079	18.88	0.077	18.80	0.076
5	QPSK	12	13	18.99	0.079	18.82	0.076	18.86	0.077
5	QPSK	25	0	19.01	0.080	18.93	0.078	18.79	0.076
5	16QAM	1	0	19.27	0.085	18.60	0.072	18.91	0.078
5	16QAM	1	12	19.10	0.081	19.57	0.091	18.91	0.078
5	16QAM	1	24	19.18	0.083	19.42	0.087	18.58	0.072
5	16QAM	12	0	18.02	0.063	17.97	0.063	17.96	0.063
5	16QAM	12	7	18.16	0.065	17.98	0.063	17.94	0.062
5	16QAM	12	13	17.97	0.063	17.96	0.063	17.82	0.061
5	16QAM	25	0	17.91	0.062	17.85	0.061	17.80	0.060
5	64QAM	1	0	17.35	0.054	16.90	0.049	17.23	0.053
5	64QAM	1	12	17.14	0.052	16.80	0.048	17.13	0.052
5	64QAM	1	24	17.32	0.054	16.94	0.049	17.15	0.052
5	64QAM	12	0	16.99	0.050	17.00	0.050	17.05	0.051
5	64QAM	12	7	17.14	0.052	16.92	0.049	16.80	0.048
5	64QAM	12	13	16.92	0.049	16.98	0.050	16.78	0.048
5	64QAM	25	0	17.04	0.051	16.92	0.049	16.90	0.049



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	19.86	0.097	20.03	0.101	19.93	0.098
3	QPSK	1	8	19.98	0.100	19.99	0.100	19.94	0.099
3	QPSK	1	14	19.97	0.099	19.94	0.099	19.95	0.099
3	QPSK	8	0	18.95	0.079	19.10	0.081	19.08	0.081
3	QPSK	8	4	18.99	0.079	19.09	0.081	19.03	0.080
3	QPSK	8	7	18.92	0.078	19.08	0.081	18.97	0.079
3	QPSK	15	0	18.97	0.079	19.06	0.081	18.95	0.079
3	16QAM	1	0	19.19	0.083	19.62	0.092	19.52	0.090
3	16QAM	1	8	19.24	0.084	19.25	0.084	19.23	0.084
3	16QAM	1	14	19.65	0.092	19.64	0.092	19.66	0.092
3	16QAM	8	0	18.14	0.065	18.17	0.066	18.15	0.065
3	16QAM	8	4	18.04	0.064	18.06	0.064	18.03	0.064
3	16QAM	8	7	17.90	0.062	17.93	0.062	17.91	0.062
3	16QAM	15	0	18.04	0.064	18.14	0.065	17.94	0.062
3	64QAM	1	0	17.30	0.054	17.44	0.055	17.41	0.055
3	64QAM	1	8	17.20	0.052	17.21	0.053	17.23	0.053
3	64QAM	1	14	16.97	0.050	16.98	0.050	16.99	0.050
3	64QAM	8	0	16.89	0.049	16.92	0.049	16.93	0.049
3	64QAM	8	4	17.08	0.051	17.27	0.053	17.11	0.051
3	64QAM	8	7	17.04	0.051	17.26	0.053	17.10	0.051
3	64QAM	15	0	16.97	0.050	17.25	0.053	17.08	0.051



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23017		23095		23173	
Frequency (MHz)				699.7		707.5		715.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	19.39	0.087	19.83	0.096	19.73	0.094
1.4	QPSK	1	3	19.51	0.089	19.53	0.090	19.54	0.090
1.4	QPSK	1	5	19.37	0.086	19.39	0.087	19.38	0.087
1.4	QPSK	3	0	19.44	0.088	19.46	0.088	19.45	0.088
1.4	QPSK	3	1	19.51	0.089	19.53	0.090	19.51	0.089
1.4	QPSK	3	3	19.47	0.089	19.48	0.089	19.49	0.089
1.4	QPSK	6	0	18.52	0.071	18.98	0.079	18.92	0.078
1.4	16QAM	1	0	18.64	0.073	18.97	0.079	18.96	0.079
1.4	16QAM	1	3	18.83	0.076	18.84	0.077	18.86	0.077
1.4	16QAM	1	5	18.50	0.071	18.53	0.071	18.54	0.071
1.4	16QAM	3	0	18.59	0.072	18.60	0.072	18.60	0.072
1.4	16QAM	3	1	18.60	0.072	18.64	0.073	18.62	0.073
1.4	16QAM	3	3	18.73	0.075	18.72	0.074	18.70	0.074
1.4	16QAM	6	0	17.57	0.057	18.00	0.063	17.95	0.062
1.4	64QAM	1	0	16.65	0.046	17.20	0.052	17.19	0.052
1.4	64QAM	1	3	16.79	0.048	16.81	0.048	16.80	0.048
1.4	64QAM	1	5	16.67	0.046	16.72	0.047	16.79	0.048
1.4	64QAM	3	0	16.76	0.047	16.75	0.047	16.77	0.048
1.4	64QAM	3	1	16.77	0.048	17.08	0.051	16.91	0.049
1.4	64QAM	3	3	16.86	0.049	17.05	0.051	16.89	0.049
1.4	64QAM	6	0	16.68	0.047	17.02	0.050	16.88	0.049



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	/	/	21.01	0.126	/	/
10	QPSK	1	25	/	/	21.3	0.135	/	/
10	QPSK	1	49	/	/	21.27	0.134	/	/
10	QPSK	25	0	/	/	20.33	0.108	/	/
10	QPSK	25	12	/	/	20.37	0.109	/	/
10	QPSK	25	25	/	/	20.47	0.111	/	/
10	QPSK	50	0	/	/	20.44	0.111	/	/
10	16QAM	1	0	/	/	20.54	0.113	/	/
10	16QAM	1	25	/	/	20.52	0.113	/	/
10	16QAM	1	49	/	/	20.94	0.124	/	/
10	16QAM	25	0	/	/	19.4	0.087	/	/
10	16QAM	25	12	/	/	19.43	0.088	/	/
10	16QAM	25	25	/	/	19.42	0.087	/	/
10	16QAM	50	0	/	/	19.49	0.089	/	/
10	64QAM	1	0	/	/	20.7	0.117	/	/
10	64QAM	1	25	/	/	20.45	0.111	/	/
10	64QAM	1	49	/	/	20.27	0.106	/	/
10	64QAM	25	0	/	/	19.23	0.084	/	/
10	64QAM	25	12	/	/	19.48	0.089	/	/
10	64QAM	25	25	/	/	19.44	0.088	/	/
10	64QAM	50	0	/	/	19.47	0.089	/	/



LTE Band 13				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23205		23230		23255	
Frequency (MHz)				779.5		782		784.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	21.13	0.130	21.21	0.132	21.19	0.132
5	QPSK	1	12	21.29	0.135	21.27	0.134	21.32	0.136
5	QPSK	1	24	21.44	0.139	21.37	0.137	21.48	0.141
5	QPSK	12	0	20.30	0.107	20.31	0.107	20.43	0.110
5	QPSK	12	7	20.41	0.110	20.43	0.110	20.48	0.112
5	QPSK	12	13	20.45	0.111	20.49	0.112	20.55	0.114
5	QPSK	25	0	20.25	0.106	20.37	0.109	20.47	0.111
5	16QAM	1	0	20.33	0.108	20.63	0.116	20.47	0.111
5	16QAM	1	12	20.49	0.112	20.51	0.112	20.63	0.116
5	16QAM	1	24	20.98	0.125	20.53	0.113	20.97	0.125
5	16QAM	12	0	19.40	0.087	19.41	0.087	19.54	0.090
5	16QAM	12	7	19.40	0.087	19.48	0.089	19.56	0.090
5	16QAM	12	13	19.43	0.088	19.42	0.087	19.66	0.092
5	16QAM	25	0	19.42	0.087	19.29	0.085	19.53	0.090
5	64QAM	1	0	20.49	0.112	20.51	0.112	20.58	0.114
5	64QAM	1	12	20.10	0.102	20.38	0.109	20.68	0.117
5	64QAM	1	24	20.39	0.109	20.52	0.113	20.35	0.108
5	64QAM	12	0	19.26	0.084	19.30	0.085	19.38	0.087
5	64QAM	12	7	19.34	0.086	19.41	0.087	19.53	0.090
5	64QAM	12	13	19.45	0.088	19.58	0.091	19.60	0.091
5	64QAM	25	0	19.47	0.089	19.38	0.087	19.51	0.089



LTE Band 41				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39750		40620		41490	
Frequency (MHz)				2506		2593		2680	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	28.16	0.655	28.50	0.708	28.02	0.634
20	QPSK	1	49	28.20	0.661	28.19	0.659	27.87	0.612
20	QPSK	1	99	28.13	0.650	28.18	0.658	28.00	0.631
20	QPSK	50	0	27.24	0.530	27.41	0.551	27.12	0.515
20	QPSK	50	24	27.33	0.541	27.44	0.555	27.20	0.525
20	QPSK	50	50	27.30	0.537	27.43	0.553	27.16	0.520
20	QPSK	100	0	27.33	0.541	27.44	0.555	27.07	0.509
20	16QAM	1	0	27.53	0.566	27.70	0.589	27.32	0.540
20	16QAM	1	49	27.63	0.579	27.55	0.569	27.20	0.525
20	16QAM	1	99	27.38	0.547	27.69	0.587	27.21	0.526
20	16QAM	50	0	26.23	0.420	26.43	0.440	26.23	0.420
20	16QAM	50	24	26.30	0.427	26.44	0.441	26.19	0.416
20	16QAM	50	50	26.30	0.427	26.45	0.442	26.27	0.424
20	16QAM	100	0	26.32	0.429	26.49	0.446	26.17	0.414
20	64QAM	1	0	27.41	0.551	27.78	0.600	27.09	0.512
20	64QAM	1	49	27.44	0.555	27.19	0.524	27.11	0.514
20	64QAM	1	99	27.14	0.518	27.21	0.526	27.06	0.508
20	64QAM	50	0	26.20	0.417	26.24	0.421	26.04	0.402
20	64QAM	50	24	26.40	0.437	26.49	0.446	26.14	0.411
20	64QAM	50	50	26.40	0.437	26.43	0.440	26.22	0.419
20	64QAM	100	0	26.39	0.436	26.48	0.445	26.21	0.418



LTE Band 41				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39725		40620		41515	
Frequency (MHz)				2503.5		2593		2682.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	28.00	0.631	28.37	0.687	27.96	0.625
15	QPSK	1	37	28.05	0.638	28.04	0.637	27.96	0.625
15	QPSK	1	74	27.91	0.618	28.03	0.635	27.89	0.615
15	QPSK	36	0	27.24	0.530	27.37	0.546	27.11	0.514
15	QPSK	36	20	27.22	0.527	27.37	0.546	27.10	0.513
15	QPSK	36	39	27.28	0.535	27.40	0.550	27.16	0.520
15	QPSK	75	0	27.22	0.527	27.31	0.538	27.13	0.516
15	16QAM	1	0	27.49	0.561	27.58	0.573	27.23	0.528
15	16QAM	1	37	27.48	0.560	27.54	0.568	27.16	0.520
15	16QAM	1	74	27.29	0.536	27.50	0.562	27.19	0.524
15	16QAM	36	0	26.25	0.422	26.44	0.441	26.08	0.406
15	16QAM	36	20	26.31	0.428	26.49	0.446	26.08	0.406
15	16QAM	36	39	26.26	0.423	26.47	0.444	26.07	0.405
15	16QAM	75	0	26.18	0.415	26.43	0.440	26.18	0.415
15	64QAM	1	0	27.41	0.551	27.23	0.528	27.11	0.514
15	64QAM	1	37	27.06	0.508	27.60	0.575	27.11	0.514
15	64QAM	1	74	26.96	0.497	27.52	0.565	27.04	0.506
15	64QAM	36	0	26.36	0.433	26.36	0.433	26.21	0.418
15	64QAM	36	20	26.30	0.427	26.43	0.440	25.99	0.397
15	64QAM	36	39	26.22	0.419	26.42	0.439	26.16	0.413
15	64QAM	75	0	26.27	0.424	26.38	0.435	26.12	0.409



LTE Band 41				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39700		40620		41540	
Frequency (MHz)				2501		2593		2685	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	28.21	0.662	28.34	0.682	28.11	0.647
10	QPSK	1	25	28.15	0.653	28.22	0.664	27.95	0.624
10	QPSK	1	49	28.03	0.635	28.12	0.649	28.07	0.641
10	QPSK	25	0	27.27	0.533	27.38	0.547	27.20	0.525
10	QPSK	25	12	27.27	0.533	27.45	0.556	27.20	0.525
10	QPSK	25	25	27.22	0.527	27.44	0.555	27.18	0.522
10	QPSK	50	0	27.19	0.524	27.47	0.558	27.11	0.514
10	16QAM	1	0	27.72	0.592	27.65	0.582	27.43	0.553
10	16QAM	1	25	27.65	0.582	27.54	0.568	27.36	0.545
10	16QAM	1	49	27.42	0.552	27.72	0.592	27.29	0.536
10	16QAM	25	0	26.25	0.422	26.33	0.430	26.23	0.420
10	16QAM	25	12	26.33	0.430	26.43	0.440	26.22	0.419
10	16QAM	25	25	26.39	0.436	26.43	0.440	26.21	0.418
10	16QAM	50	0	26.18	0.415	26.47	0.444	26.22	0.419
10	64QAM	1	0	26.79	0.478	27.07	0.509	26.47	0.444
10	64QAM	1	25	26.82	0.481	26.57	0.454	26.49	0.446
10	64QAM	1	49	26.52	0.449	26.59	0.456	26.44	0.441
10	64QAM	25	0	26.20	0.417	26.31	0.428	25.88	0.387
10	64QAM	25	12	26.31	0.428	26.30	0.427	25.85	0.385
10	64QAM	25	25	26.29	0.426	26.29	0.426	26.04	0.402
10	64QAM	50	0	26.26	0.423	26.31	0.428	26.16	0.413



LTE Band 41				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39675		40620		41565	
Frequency (MHz)				2498.5		2593		2687.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	28.23	0.665	28.39	0.690	28.14	0.652
5	QPSK	1	12	28.22	0.664	28.22	0.664	28.05	0.638
5	QPSK	1	24	28.17	0.656	28.23	0.665	28.06	0.640
5	QPSK	12	0	27.28	0.535	27.43	0.553	27.26	0.532
5	QPSK	12	7	27.27	0.533	27.45	0.556	27.22	0.527
5	QPSK	12	13	27.31	0.538	27.50	0.562	27.14	0.518
5	QPSK	25	0	27.31	0.538	27.40	0.550	27.25	0.531
5	16QAM	1	0	27.62	0.578	27.59	0.574	27.49	0.561
5	16QAM	1	12	27.35	0.543	27.62	0.578	27.34	0.542
5	16QAM	1	24	27.51	0.564	27.54	0.568	27.34	0.542
5	16QAM	12	0	26.26	0.423	26.44	0.441	26.34	0.431
5	16QAM	12	7	26.36	0.433	26.57	0.454	26.24	0.421
5	16QAM	12	13	26.29	0.426	26.34	0.431	26.14	0.411
5	16QAM	25	0	26.30	0.427	26.43	0.440	26.38	0.435
5	64QAM	1	0	27.47	0.558	27.60	0.575	27.38	0.547
5	64QAM	1	12	27.27	0.533	27.63	0.579	27.42	0.552
5	64QAM	1	24	27.39	0.548	27.38	0.547	27.34	0.542
5	64QAM	12	0	26.43	0.440	26.37	0.434	26.27	0.424
5	64QAM	12	7	26.35	0.432	26.51	0.448	26.29	0.426
5	64QAM	12	13	26.43	0.440	26.47	0.444	26.20	0.417
5	64QAM	25	0	26.22	0.419	26.44	0.441	26.20	0.417



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				132072		132322		132572	
Frequency (MHz)				1720		1745		1770	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	26.89	0.489	27.13	0.516	27.05	0.507
20	QPSK	1	49	26.87	0.486	27.11	0.514	26.86	0.485
20	QPSK	1	99	26.81	0.480	27.10	0.513	26.77	0.475
20	QPSK	50	0	25.87	0.386	26.16	0.413	25.98	0.396
20	QPSK	50	24	26.06	0.404	26.01	0.399	25.96	0.394
20	QPSK	50	50	25.97	0.395	26.11	0.408	25.80	0.380
20	QPSK	100	0	26.03	0.401	25.99	0.397	26.03	0.401
20	16QAM	1	0	25.95	0.394	26.49	0.446	26.45	0.442
20	16QAM	1	49	25.76	0.377	25.93	0.392	26.19	0.416
20	16QAM	1	99	26.30	0.427	26.27	0.424	26.08	0.406
20	16QAM	50	0	24.84	0.305	25.11	0.324	25.00	0.316
20	16QAM	50	24	25.07	0.321	25.06	0.321	25.08	0.322
20	16QAM	50	50	25.09	0.323	25.08	0.322	24.89	0.308
20	16QAM	100	0	24.99	0.316	25.05	0.320	25.01	0.317
20	64QAM	1	0	23.95	0.248	24.38	0.274	24.08	0.256
20	64QAM	1	49	24.46	0.279	24.16	0.261	24.05	0.254
20	64QAM	1	99	24.43	0.277	24.17	0.261	23.66	0.232
20	64QAM	50	0	23.85	0.243	24.18	0.262	23.98	0.250
20	64QAM	50	24	24.02	0.252	24.16	0.261	24.01	0.252
20	64QAM	50	50	24.03	0.253	24.01	0.252	23.96	0.249
20	64QAM	100	0	23.97	0.249	24.06	0.255	23.93	0.247



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				132047		132322		132597	
Frequency (MHz)				1717.5		1745		1772.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	26.71	0.469	27.07	0.509	26.89	0.489
15	QPSK	1	37	26.77	0.475	27.06	0.508	26.87	0.486
15	QPSK	1	74	26.80	0.479	27.06	0.508	26.82	0.481
15	QPSK	36	0	25.83	0.383	26.12	0.409	25.96	0.394
15	QPSK	36	20	25.96	0.394	26.02	0.400	25.99	0.397
15	QPSK	36	39	25.97	0.395	26.12	0.409	25.81	0.381
15	QPSK	75	0	25.85	0.385	26.07	0.405	25.98	0.396
15	16QAM	1	0	26.14	0.411	26.64	0.461	26.45	0.442
15	16QAM	1	37	26.28	0.425	25.97	0.395	26.04	0.402
15	16QAM	1	74	26.20	0.417	26.58	0.455	26.16	0.413
15	16QAM	36	0	24.79	0.301	25.04	0.319	25.02	0.318
15	16QAM	36	20	24.95	0.313	25.17	0.329	24.98	0.315
15	16QAM	36	39	24.97	0.314	25.07	0.321	24.79	0.301
15	16QAM	75	0	24.97	0.314	25.11	0.324	24.94	0.312
15	64QAM	1	0	23.78	0.239	24.00	0.251	24.08	0.256
15	64QAM	1	37	24.36	0.273	24.46	0.279	24.31	0.270
15	64QAM	1	74	24.17	0.261	24.31	0.270	24.00	0.251
15	64QAM	36	0	23.97	0.249	24.06	0.255	24.06	0.255
15	64QAM	36	20	24.02	0.252	24.09	0.256	23.99	0.251
15	64QAM	36	39	23.92	0.247	24.10	0.257	23.94	0.248
15	64QAM	75	0	23.93	0.247	24.14	0.259	23.92	0.247



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				132022		132322		132622	
Frequency (MHz)				1715		1745		1775	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	26.80	0.479	27.21	0.526	27.10	0.513
10	QPSK	1	25	26.82	0.481	27.22	0.527	26.92	0.492
10	QPSK	1	49	26.71	0.469	26.96	0.497	27.03	0.505
10	QPSK	25	0	26.06	0.404	26.12	0.409	26.11	0.408
10	QPSK	25	12	26.01	0.399	26.19	0.416	26.00	0.398
10	QPSK	25	25	25.99	0.397	26.14	0.411	26.06	0.404
10	QPSK	50	0	26.08	0.406	26.20	0.417	26.06	0.404
10	16QAM	1	0	26.28	0.425	26.35	0.432	26.42	0.439
10	16QAM	1	25	26.23	0.420	26.67	0.465	26.25	0.422
10	16QAM	1	49	25.97	0.395	26.32	0.429	26.18	0.415
10	16QAM	25	0	24.96	0.313	25.13	0.326	24.99	0.316
10	16QAM	25	12	25.18	0.330	25.24	0.334	25.12	0.325
10	16QAM	25	25	25.03	0.318	25.16	0.328	25.00	0.316
10	16QAM	50	0	24.95	0.313	25.18	0.330	24.97	0.314
10	64QAM	1	0	24.06	0.255	24.19	0.262	24.12	0.258
10	64QAM	1	25	24.00	0.251	24.35	0.272	23.95	0.248
10	64QAM	1	49	24.37	0.274	24.23	0.265	24.09	0.256
10	64QAM	25	0	24.12	0.258	24.20	0.263	24.03	0.253
10	64QAM	25	12	24.09	0.256	24.27	0.267	24.09	0.256
10	64QAM	25	25	24.01	0.252	24.06	0.255	24.07	0.255
10	64QAM	50	0	23.96	0.249	24.24	0.265	23.90	0.245



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131997		132322		132647	
Frequency (MHz)				1712.5		1745		1777.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	26.86	0.485	27.09	0.512	26.94	0.494
5	QPSK	1	12	26.87	0.486	27.08	0.511	26.93	0.493
5	QPSK	1	24	26.90	0.490	27.08	0.511	26.92	0.492
5	QPSK	12	0	25.94	0.393	26.19	0.416	26.02	0.400
5	QPSK	12	7	26.02	0.400	26.19	0.416	26.03	0.401
5	QPSK	12	13	25.97	0.395	26.19	0.416	26.03	0.401
5	QPSK	25	0	26.01	0.399	26.16	0.413	26.03	0.401
5	16QAM	1	0	25.82	0.382	26.36	0.433	26.33	0.430
5	16QAM	1	12	26.01	0.399	26.62	0.459	26.42	0.439
5	16QAM	1	24	26.15	0.412	26.28	0.425	26.96	0.497
5	16QAM	12	0	25.05	0.320	25.32	0.340	25.01	0.317
5	16QAM	12	7	25.10	0.324	25.15	0.327	25.20	0.331
5	16QAM	12	13	25.12	0.325	25.19	0.330	24.98	0.315
5	16QAM	25	0	25.05	0.320	25.22	0.333	25.14	0.327
5	64QAM	1	0	24.01	0.252	24.59	0.288	24.08	0.256
5	64QAM	1	12	23.79	0.239	24.66	0.292	24.34	0.272
5	64QAM	1	24	24.29	0.269	24.73	0.297	24.21	0.264
5	64QAM	12	0	24.02	0.252	24.26	0.267	23.99	0.251
5	64QAM	12	7	24.09	0.256	24.26	0.267	24.08	0.256
5	64QAM	12	13	24.00	0.251	24.09	0.256	24.11	0.258
5	64QAM	25	0	24.02	0.252	24.20	0.263	24.08	0.256



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131987		132322		132657	
Frequency (MHz)				1711.5		1745		1778.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	27.21	0.526	27.21	0.526	27.19	0.524
3	QPSK	1	8	27.14	0.518	27.15	0.519	27.13	0.516
3	QPSK	1	14	26.99	0.500	27.02	0.504	27.00	0.501
3	QPSK	8	0	26.23	0.420	26.24	0.421	26.19	0.416
3	QPSK	8	4	26.22	0.419	26.25	0.422	26.21	0.418
3	QPSK	8	7	26.24	0.421	26.23	0.420	26.22	0.419
3	QPSK	15	0	26.18	0.415	26.19	0.416	26.18	0.415
3	16QAM	1	0	26.39	0.436	26.38	0.435	26.39	0.436
3	16QAM	1	8	26.09	0.406	26.46	0.443	26.45	0.442
3	16QAM	1	14	26.67	0.465	26.66	0.463	26.65	0.462
3	16QAM	8	0	25.34	0.342	25.35	0.343	25.34	0.342
3	16QAM	8	4	25.23	0.333	25.25	0.335	25.26	0.336
3	16QAM	8	7	25.31	0.340	25.30	0.339	25.29	0.338
3	16QAM	15	0	25.19	0.330	25.22	0.333	25.18	0.330
3	64QAM	1	0	24.09	0.256	25.19	0.330	25.17	0.329
3	64QAM	1	8	23.97	0.249	25.13	0.326	25.09	0.323
3	64QAM	1	14	24.06	0.255	25.05	0.320	25.06	0.321
3	64QAM	8	0	24.25	0.266	24.22	0.264	24.22	0.264
3	64QAM	8	4	24.31	0.270	24.30	0.269	24.29	0.269
3	64QAM	8	7	24.26	0.267	24.25	0.266	24.27	0.267
3	64QAM	15	0	24.17	0.261	24.18	0.262	24.19	0.262



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131979		132322		132665	
Frequency (MHz)				1710.7		1745		1779.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	26.83	0.482	27.27	0.533	26.95	0.495
1.4	QPSK	1	3	27.03	0.505	27.26	0.532	26.98	0.499
1.4	QPSK	1	5	26.97	0.498	27.25	0.531	26.96	0.497
1.4	QPSK	3	0	26.92	0.492	27.20	0.525	26.94	0.494
1.4	QPSK	3	1	26.97	0.498	27.21	0.526	26.93	0.493
1.4	QPSK	3	3	26.95	0.495	27.18	0.522	26.94	0.494
1.4	QPSK	6	0	26.01	0.399	26.33	0.430	26.03	0.401
1.4	16QAM	1	0	25.99	0.397	26.35	0.432	26.29	0.426
1.4	16QAM	1	3	26.23	0.420	26.24	0.421	26.22	0.419
1.4	16QAM	1	5	25.93	0.392	26.19	0.416	25.95	0.394
1.4	16QAM	3	0	25.93	0.392	26.16	0.413	25.94	0.393
1.4	16QAM	3	1	26.08	0.406	26.07	0.405	25.89	0.388
1.4	16QAM	3	3	26.10	0.407	26.19	0.416	25.88	0.387
1.4	16QAM	6	0	25.21	0.332	25.36	0.344	25.20	0.331
1.4	64QAM	1	0	23.68	0.233	25.35	0.343	25.25	0.335
1.4	64QAM	1	3	24.27	0.267	25.25	0.335	25.19	0.330
1.4	64QAM	1	5	24.55	0.285	25.19	0.330	25.15	0.327
1.4	64QAM	3	0	24.22	0.264	24.87	0.307	24.94	0.312
1.4	64QAM	3	1	24.31	0.270	24.82	0.303	24.86	0.306
1.4	64QAM	3	3	24.42	0.277	24.72	0.296	24.73	0.297
1.4	64QAM	6	0	24.13	0.259	24.39	0.275	24.06	0.255



LTE Band 71				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				133222		133322		133372	
Frequency (MHz)				673		683		688	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	18.44	0.070	18.68	0.074	17.94	0.062
20	QPSK	1	49	18.23	0.067	17.91	0.062	17.52	0.056
20	QPSK	1	99	17.68	0.059	17.55	0.057	17.27	0.053
20	QPSK	50	0	17.70	0.059	17.23	0.053	16.85	0.048
20	QPSK	50	24	17.46	0.056	17.02	0.050	16.67	0.046
20	QPSK	50	50	17.08	0.051	16.66	0.046	16.44	0.044
20	QPSK	100	0	17.44	0.055	16.95	0.050	16.64	0.046
20	16QAM	1	0	18.37	0.069	17.85	0.061	17.54	0.057
20	16QAM	1	49	17.82	0.061	17.54	0.057	17.16	0.052
20	16QAM	1	99	17.47	0.056	17.09	0.051	16.70	0.047
20	16QAM	50	0	16.73	0.047	16.24	0.042	15.83	0.038
20	16QAM	50	24	16.44	0.044	15.97	0.040	15.64	0.037
20	16QAM	50	50	16.08	0.041	15.80	0.038	15.46	0.035
20	16QAM	100	0	16.45	0.044	16.12	0.041	15.68	0.037
20	64QAM	1	0	15.64	0.037	15.88	0.039	15.14	0.033
20	64QAM	1	49	15.43	0.035	15.11	0.032	15.09	0.032
20	64QAM	1	99	15.36	0.034	15.08	0.032	15.07	0.032
20	64QAM	50	0	14.90	0.031	14.43	0.028	14.05	0.025
20	64QAM	50	24	14.66	0.029	14.22	0.026	13.87	0.024
20	64QAM	50	50	14.28	0.027	13.86	0.024	13.64	0.023
20	64QAM	100	0	14.64	0.029	14.15	0.026	13.84	0.024



LTE Band 71				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				133197		133297		133397	
Frequency (MHz)				670.8		680.5		690.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	18.14	0.065	18.30	0.068	17.53	0.057
15	QPSK	1	37	17.82	0.061	17.50	0.056	17.11	0.051
15	QPSK	1	74	17.27	0.053	17.14	0.052	16.86	0.049
15	QPSK	36	0	17.29	0.054	16.82	0.048	16.44	0.044
15	QPSK	36	20	17.05	0.051	16.61	0.046	16.26	0.042
15	QPSK	36	39	16.67	0.046	16.25	0.042	16.03	0.040
15	QPSK	75	0	17.03	0.050	16.54	0.045	16.23	0.042
15	16QAM	1	0	17.45	0.056	17.44	0.055	17.13	0.052
15	16QAM	1	37	17.41	0.055	17.13	0.052	16.75	0.047
15	16QAM	1	74	17.06	0.051	16.68	0.047	16.29	0.043
15	16QAM	36	0	16.32	0.043	15.83	0.038	15.42	0.035
15	16QAM	36	20	16.03	0.040	15.56	0.036	15.23	0.033
15	16QAM	36	39	15.67	0.037	15.39	0.035	15.05	0.032
15	16QAM	75	0	16.04	0.040	15.71	0.037	15.27	0.034
15	64QAM	1	0	15.16	0.033	14.64	0.029	14.33	0.027
15	64QAM	1	37	14.61	0.029	14.33	0.027	13.95	0.025
15	64QAM	1	74	14.26	0.027	13.88	0.024	13.49	0.022
15	64QAM	36	0	13.52	0.022	13.03	0.020	12.62	0.018
15	64QAM	36	20	13.23	0.021	12.76	0.019	12.43	0.017
15	64QAM	36	39	12.87	0.019	12.59	0.018	12.25	0.017
15	64QAM	75	0	13.24	0.021	12.91	0.020	12.47	0.018



LTE Band 71				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				133172		133272		133422	
Frequency (MHz)				668		678		693	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	17.72	0.059	18.16	0.065	17.39	0.055
10	QPSK	1	25	17.68	0.059	17.36	0.054	16.97	0.050
10	QPSK	1	49	17.13	0.052	17.00	0.050	16.72	0.047
10	QPSK	25	0	17.15	0.052	16.68	0.047	16.30	0.043
10	QPSK	25	12	16.91	0.049	16.47	0.044	16.12	0.041
10	QPSK	25	25	16.53	0.045	16.11	0.041	15.89	0.039
10	QPSK	50	0	16.89	0.049	16.40	0.044	16.09	0.041
10	16QAM	1	0	17.82	0.061	17.30	0.054	16.99	0.050
10	16QAM	1	25	17.27	0.053	16.99	0.050	16.61	0.046
10	16QAM	1	49	16.92	0.049	16.54	0.045	16.15	0.041
10	16QAM	25	0	16.18	0.041	15.69	0.037	15.28	0.034
10	16QAM	25	12	15.89	0.039	15.42	0.035	15.09	0.032
10	16QAM	25	25	15.53	0.036	15.25	0.033	14.91	0.031
10	16QAM	50	0	15.90	0.039	15.57	0.036	15.13	0.033
10	64QAM	1	0	14.72	0.030	14.20	0.026	13.89	0.024
10	64QAM	1	25	14.17	0.026	13.89	0.024	13.51	0.022
10	64QAM	1	49	13.82	0.024	13.44	0.022	13.05	0.020
10	64QAM	25	0	13.08	0.020	12.59	0.018	12.18	0.017
10	64QAM	25	12	12.79	0.019	12.32	0.017	11.99	0.016
10	64QAM	25	25	12.43	0.017	12.15	0.016	11.81	0.015
10	64QAM	50	0	12.80	0.019	12.47	0.018	12.03	0.016



LTE Band 71				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				133147		133247		133447	
Frequency (MHz)				665.5		675.5		695.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	17.74	0.059	18.03	0.064	17.26	0.053
5	QPSK	1	12	17.55	0.057	17.23	0.053	16.84	0.048
5	QPSK	1	24	17.00	0.050	16.87	0.049	16.59	0.046
5	QPSK	12	0	17.02	0.050	16.55	0.045	16.17	0.041
5	QPSK	12	7	16.78	0.048	16.34	0.043	15.99	0.040
5	QPSK	12	13	16.40	0.044	15.98	0.040	15.76	0.038
5	QPSK	25	0	16.76	0.047	16.27	0.042	15.96	0.039
5	16QAM	1	0	17.69	0.059	17.17	0.052	16.86	0.049
5	16QAM	1	12	17.14	0.052	16.86	0.049	16.48	0.044
5	16QAM	1	24	16.79	0.048	16.41	0.044	16.02	0.040
5	16QAM	12	0	16.05	0.040	15.56	0.036	15.15	0.033
5	16QAM	12	7	15.76	0.038	15.29	0.034	14.96	0.031
5	16QAM	12	13	15.40	0.035	15.12	0.033	14.78	0.030
5	16QAM	25	0	15.77	0.038	15.44	0.035	15.00	0.032
5	64QAM	1	0	14.74	0.030	14.22	0.026	13.91	0.025
5	64QAM	1	12	14.19	0.026	13.91	0.025	13.53	0.023
5	64QAM	1	24	13.84	0.024	13.46	0.022	13.07	0.020
5	64QAM	12	0	13.10	0.020	12.61	0.018	12.20	0.017
5	64QAM	12	7	12.81	0.019	12.34	0.017	12.01	0.016
5	64QAM	12	13	12.45	0.018	12.17	0.016	11.83	0.015
5	64QAM	25	0	12.82	0.019	12.49	0.018	12.05	0.016



LTE Band 71				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				133237		133397		133557	
Frequency (MHz)				664.5		680.5		696.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	17.64	0.058	18.01	0.063	17.24	0.053
3	QPSK	1	8	17.53	0.057	17.21	0.053	16.82	0.048
3	QPSK	1	14	16.98	0.050	16.85	0.048	16.57	0.045
3	QPSK	8	0	17.00	0.050	16.53	0.045	16.15	0.041
3	QPSK	8	4	16.76	0.047	16.32	0.043	15.97	0.040
3	QPSK	8	7	16.38	0.043	15.96	0.039	15.74	0.037
3	QPSK	15	0	16.74	0.047	16.25	0.042	15.94	0.039
3	16QAM	1	0	17.67	0.058	17.15	0.052	16.84	0.048
3	16QAM	1	8	17.12	0.052	16.84	0.048	16.46	0.044
3	16QAM	1	14	16.77	0.048	16.39	0.044	16.00	0.040
3	16QAM	8	0	16.03	0.040	15.54	0.036	15.13	0.033
3	16QAM	8	4	15.74	0.037	15.27	0.034	14.94	0.031
3	16QAM	8	7	15.38	0.035	15.10	0.032	14.76	0.030
3	16QAM	15	0	15.75	0.038	15.42	0.035	14.98	0.031
3	64QAM	1	0	14.77	0.030	14.25	0.027	13.94	0.025
3	64QAM	1	8	14.22	0.026	13.94	0.025	13.56	0.023
3	64QAM	1	14	13.87	0.024	13.49	0.022	13.10	0.020
3	64QAM	8	0	13.13	0.021	12.64	0.018	12.23	0.017
3	64QAM	8	4	12.84	0.019	12.37	0.017	12.04	0.016
3	64QAM	8	7	12.48	0.018	12.20	0.017	11.86	0.015
3	64QAM	15	0	12.85	0.019	12.52	0.018	12.08	0.016



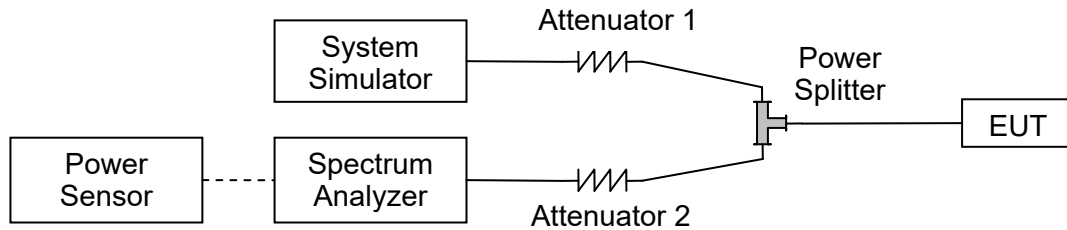
LTE Band 71				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				133229		133397		133565	
Frequency (MHz)				663.7		680.5		697.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	17.54	0.057	17.81	0.060	17.04	0.051
1.4	QPSK	1	3	17.33	0.054	17.01	0.050	16.62	0.046
1.4	QPSK	1	5	16.78	0.048	16.65	0.046	16.37	0.043
1.4	QPSK	3	0	16.80	0.048	16.33	0.043	15.95	0.039
1.4	QPSK	3	1	16.56	0.045	16.12	0.041	15.77	0.038
1.4	QPSK	3	3	16.18	0.041	15.76	0.038	15.54	0.036
1.4	QPSK	6	0	16.54	0.045	16.05	0.040	15.74	0.037
1.4	16QAM	1	0	17.47	0.056	16.95	0.050	16.64	0.046
1.4	16QAM	1	3	16.92	0.049	16.64	0.046	16.26	0.042
1.4	16QAM	1	5	16.57	0.045	16.19	0.042	15.80	0.038
1.4	16QAM	3	0	15.83	0.038	15.34	0.034	14.93	0.031
1.4	16QAM	3	1	15.54	0.036	15.07	0.032	14.74	0.030
1.4	16QAM	3	3	15.18	0.033	14.90	0.031	14.56	0.029
1.4	16QAM	6	0	15.55	0.036	15.22	0.033	14.78	0.030
1.4	64QAM	1	0	14.57	0.029	14.05	0.025	13.74	0.024
1.4	64QAM	1	3	14.02	0.025	13.74	0.024	13.36	0.022
1.4	64QAM	1	5	13.67	0.023	13.29	0.021	12.90	0.019
1.4	64QAM	3	0	12.93	0.020	12.44	0.018	12.03	0.016
1.4	64QAM	3	1	12.64	0.018	12.17	0.016	11.84	0.015
1.4	64QAM	3	3	12.28	0.017	12.00	0.016	11.66	0.015
1.4	64QAM	6	0	12.65	0.018	12.32	0.017	11.88	0.015

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	1.23
	Low	16QAM	1.09	1.24
	Low	64QAM	1.09	1.24
	Mid	QPSK	1.09	1.24
	Mid	16QAM	1.09	1.23
	Mid	64QAM	1.09	1.24
	High	QPSK	1.10	1.24
	High	16QAM	1.10	1.24
	High	64QAM	1.09	1.24
3	Low	QPSK	2.70	2.99
	Low	16QAM	2.70	3.00
	Low	64QAM	2.70	2.94
	Mid	QPSK	2.70	3.00
	Mid	16QAM	2.70	2.99
	Mid	64QAM	2.71	3.00
	High	QPSK	2.71	2.99
	High	16QAM	2.71	3.00
	High	64QAM	2.71	3.01
5	Low	QPSK	4.50	4.98
	Low	16QAM	4.50	4.94
	Low	64QAM	4.50	4.94
	Mid	QPSK	4.50	5.00
	Mid	16QAM	4.50	4.93
	Mid	64QAM	4.50	4.95
	High	QPSK	4.49	4.99
	High	16QAM	4.51	4.95
	High	64QAM	4.50	4.98
10	Low	QPSK	8.99	9.77
	Low	16QAM	8.94	9.74
	Low	64QAM	8.97	9.75
	Mid	QPSK	8.98	9.82
	Mid	16QAM	8.95	9.75
	Mid	64QAM	8.96	9.74
	High	QPSK	8.98	9.78
	High	16QAM	8.94	9.77
	High	64QAM	8.96	9.80



15	Low	QPSK	13.47	14.69
	Low	16QAM	13.45	14.68
	Low	64QAM	13.44	14.61
	Mid	QPSK	13.49	14.73
	Mid	16QAM	13.46	14.66
	Mid	64QAM	13.45	14.5
	High	QPSK	13.47	14.68
	High	16QAM	13.46	15.61
	High	64QAM	13.47	14.77
20	Low	QPSK	17.91	19.41
	Low	16QAM	17.95	19.57
	Low	64QAM	17.91	19.63
	Mid	QPSK	17.91	19.46
	Mid	16QAM	17.93	19.42
	Mid	64QAM	17.95	19.4
	High	QPSK	17.96	19.57
	High	16QAM	17.97	19.54
	High	64QAM	17.98	19.61



LTE Band 4				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.23
	Low	16QAM	1.10	1.23
	Low	64QAM	1.09	1.24
	Mid	QPSK	1.09	1.24
	Mid	16QAM	1.10	1.25
	Mid	64QAM	1.09	1.24
	High	QPSK	1.10	1.25
	High	16QAM	1.09	1.24
	High	64QAM	1.09	1.24
3	Low	QPSK	2.71	3.04
	Low	16QAM	2.70	3.00
	Low	64QAM	2.71	3.01
	Mid	QPSK	2.70	3.00
	Mid	16QAM	2.70	3.00
	Mid	64QAM	2.70	3.00
	High	QPSK	2.70	2.99
	High	16QAM	2.70	3.01
	High	64QAM	2.71	3.01
5	Low	QPSK	4.50	4.98
	Low	16QAM	4.51	4.98
	Low	64QAM	4.50	4.99
	Mid	QPSK	4.49	4.98
	Mid	16QAM	4.50	4.96
	Mid	64QAM	4.49	4.95
	High	QPSK	4.50	4.96
	High	16QAM	4.50	4.96
	High	64QAM	4.50	4.99
10	Low	QPSK	8.99	9.81
	Low	16QAM	8.97	9.72
	Low	64QAM	8.98	9.81
	Mid	QPSK	8.98	9.82
	Mid	16QAM	8.94	9.74
	Mid	64QAM	8.95	9.75
	High	QPSK	9.00	9.8
	High	16QAM	8.95	9.73
	High	64QAM	8.98	9.79



15	Low	QPSK	13.83	22.52
	Low	16QAM	13.85	22.25
	Low	64QAM	13.92	23.68
	Mid	QPSK	13.79	23.05
	Mid	16QAM	13.79	21.79
	Mid	64QAM	13.77	21.05
	High	QPSK	13.93	23.61
	High	16QAM	13.97	23.41
	High	64QAM	13.92	22.6
20	Low	QPSK	18.14	24.65
	Low	16QAM	18.18	24.1
	Low	64QAM	18.18	24.36
	Mid	QPSK	18.17	24.4
	Mid	16QAM	18.19	24.97
	Mid	64QAM	18.19	24.6
	High	QPSK	18.46	24.99
	High	16QAM	18.42	24.86
	High	64QAM	18.48	24.97



LTE Band 5				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.23
	Low	16QAM	1.10	1.25
	Low	64QAM	1.09	1.24
	Mid	QPSK	1.09	1.23
	Mid	16QAM	1.10	1.25
	Mid	64QAM	1.09	1.24
	High	QPSK	1.09	1.23
	High	16QAM	1.09	1.24
	High	64QAM	1.09	1.24
3	Low	QPSK	2.70	2.98
	Low	16QAM	2.70	3.00
	Low	64QAM	2.71	3.00
	Mid	QPSK	2.70	3.00
	Mid	16QAM	2.70	3.01
	Mid	64QAM	2.71	3.01
	High	QPSK	2.70	3.03
	High	16QAM	2.70	3.01
	High	64QAM	2.70	3.00
5	Low	QPSK	4.50	4.99
	Low	16QAM	4.50	4.97
	Low	64QAM	4.50	4.97
	Mid	QPSK	4.49	4.98
	Mid	16QAM	4.50	4.99
	Mid	64QAM	4.49	4.96
	High	QPSK	4.50	5.01
	High	16QAM	4.50	4.96
	High	64QAM	4.50	4.97
10	Low	QPSK	8.99	9.78
	Low	16QAM	8.97	9.75
	Low	64QAM	8.98	9.78
	Mid	QPSK	8.97	9.78
	Mid	16QAM	8.94	9.70
	Mid	64QAM	8.94	9.75
	High	QPSK	8.99	9.85
	High	16QAM	8.97	9.79
	High	64QAM	8.99	9.88



LTE Band 12				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.23
	Low	16QAM	1.09	1.23
	Low	64QAM	1.09	1.24
	Mid	QPSK	1.10	1.24
	Mid	16QAM	1.10	1.24
	Mid	64QAM	1.09	1.24
	High	QPSK	1.09	1.23
	High	16QAM	1.09	1.24
	High	64QAM	1.09	1.24
3	Low	QPSK	2.70	2.98
	Low	16QAM	2.70	3.01
	Low	64QAM	2.70	3.01
	Mid	QPSK	2.70	3.00
	Mid	16QAM	2.70	3.01
	Mid	64QAM	2.71	3.01
	High	QPSK	2.69	2.98
	High	16QAM	2.70	3.00
	High	64QAM	2.71	3.02
5	Low	QPSK	4.50	4.99
	Low	16QAM	4.50	4.96
	Low	64QAM	4.50	4.94
	Mid	QPSK	4.50	4.97
	Mid	16QAM	4.50	5.00
	Mid	64QAM	4.49	4.96
	High	QPSK	4.50	4.99
	High	16QAM	4.50	4.95
	High	64QAM	4.51	4.97
10	Low	QPSK	8.97	9.81
	Low	16QAM	8.95	9.70
	Low	64QAM	8.97	9.75
	Mid	QPSK	8.99	9.81
	Mid	16QAM	8.95	9.77
	Mid	64QAM	8.96	9.78
	High	QPSK	9.00	9.80
	High	16QAM	8.97	9.76
	High	64QAM	8.98	9.80



LTE Band 13				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.50	4.98
	Low	16QAM	4.50	4.95
	Low	64QAM	4.49	4.98
	Mid	QPSK	4.49	4.97
	Mid	16QAM	4.49	4.96
	Mid	64QAM	4.49	4.97
	High	QPSK	4.51	4.98
	High	16QAM	4.51	4.97
	High	64QAM	4.50	4.93
10	Low	QPSK	8.96	9.76
	Low	16QAM	8.93	9.69
	Low	64QAM	8.95	9.76
	Mid	QPSK	8.97	9.77
	Mid	16QAM	8.93	9.70
	Mid	64QAM	8.95	9.79
	High	QPSK	8.97	9.75
	High	16QAM	8.93	9.71
	High	64QAM	8.95	9.81



LTE Band 41				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.49	4.93
	Low	16QAM	4.51	4.94
	Low	64QAM	4.49	4.93
	Mid	QPSK	4.51	5.00
	Mid	16QAM	4.49	4.99
	Mid	64QAM	4.50	4.95
	High	QPSK	4.51	4.98
	High	16QAM	4.51	4.97
	High	64QAM	4.49	4.92
10	Low	QPSK	8.96	9.72
	Low	16QAM	8.97	9.71
	Low	64QAM	8.97	9.78
	Mid	QPSK	8.96	9.71
	Mid	16QAM	8.97	9.79
	Mid	64QAM	8.93	9.52
	High	QPSK	8.96	9.72
	High	16QAM	8.97	9.71
	High	64QAM	8.97	9.78
15	Low	QPSK	13.46	14.58
	Low	16QAM	13.48	14.67
	Low	64QAM	13.46	14.59
	Mid	QPSK	13.46	14.66
	Mid	16QAM	13.45	14.66
	Mid	64QAM	13.49	14.78
	High	QPSK	13.44	14.6
	High	16QAM	13.44	14.68
	High	64QAM	13.44	14.64
20	Low	QPSK	17.93	19.35
	Low	16QAM	17.94	19.51
	Low	64QAM	17.96	19.39
	Mid	QPSK	17.94	19.28
	Mid	16QAM	17.96	19.45
	Mid	64QAM	17.91	19.51
	High	QPSK	17.95	19.31
	High	16QAM	17.93	19.32
	High	64QAM	17.92	19.39



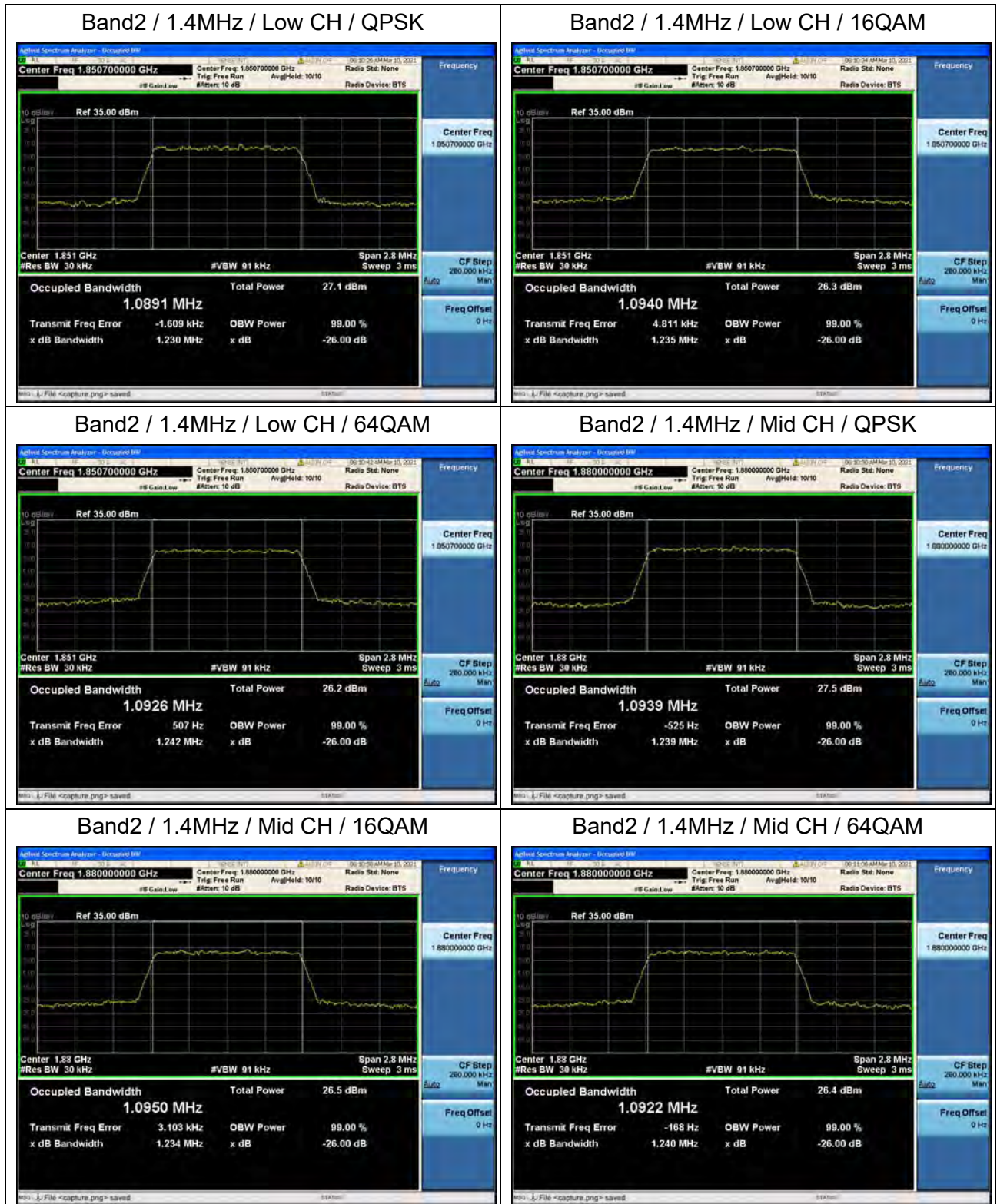
LTE Band 66				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.24
	Low	16QAM	1.09	1.24
	Low	64QAM	1.09	1.23
	Mid	QPSK	1.09	1.23
	Mid	16QAM	1.09	1.23
	Mid	64QAM	1.09	1.23
	High	QPSK	1.09	1.24
	High	16QAM	1.09	1.23
	High	64QAM	1.09	1.23
3	Low	QPSK	2.69	2.99
	Low	16QAM	2.69	2.98
	Low	64QAM	2.69	2.99
	Mid	QPSK	2.69	2.99
	Mid	16QAM	2.69	2.97
	Mid	64QAM	2.69	2.99
	High	QPSK	2.69	2.98
	High	16QAM	2.69	2.97
	High	64QAM	2.69	2.98
5	Low	QPSK	4.49	4.98
	Low	16QAM	4.49	4.96
	Low	64QAM	4.50	4.99
	Mid	QPSK	4.49	4.98
	Mid	16QAM	4.50	4.91
	Mid	64QAM	4.50	4.91
	High	QPSK	4.49	4.97
	High	16QAM	4.49	4.95
	High	64QAM	4.49	4.95
10	Low	QPSK	8.93	9.60
	Low	16QAM	8.94	9.61
	Low	64QAM	8.92	9.58
	Mid	QPSK	8.93	9.60
	Mid	16QAM	8.92	9.57
	Mid	64QAM	8.93	9.59
	High	QPSK	8.93	9.61
	High	16QAM	8.94	9.61
	High	64QAM	8.93	9.60

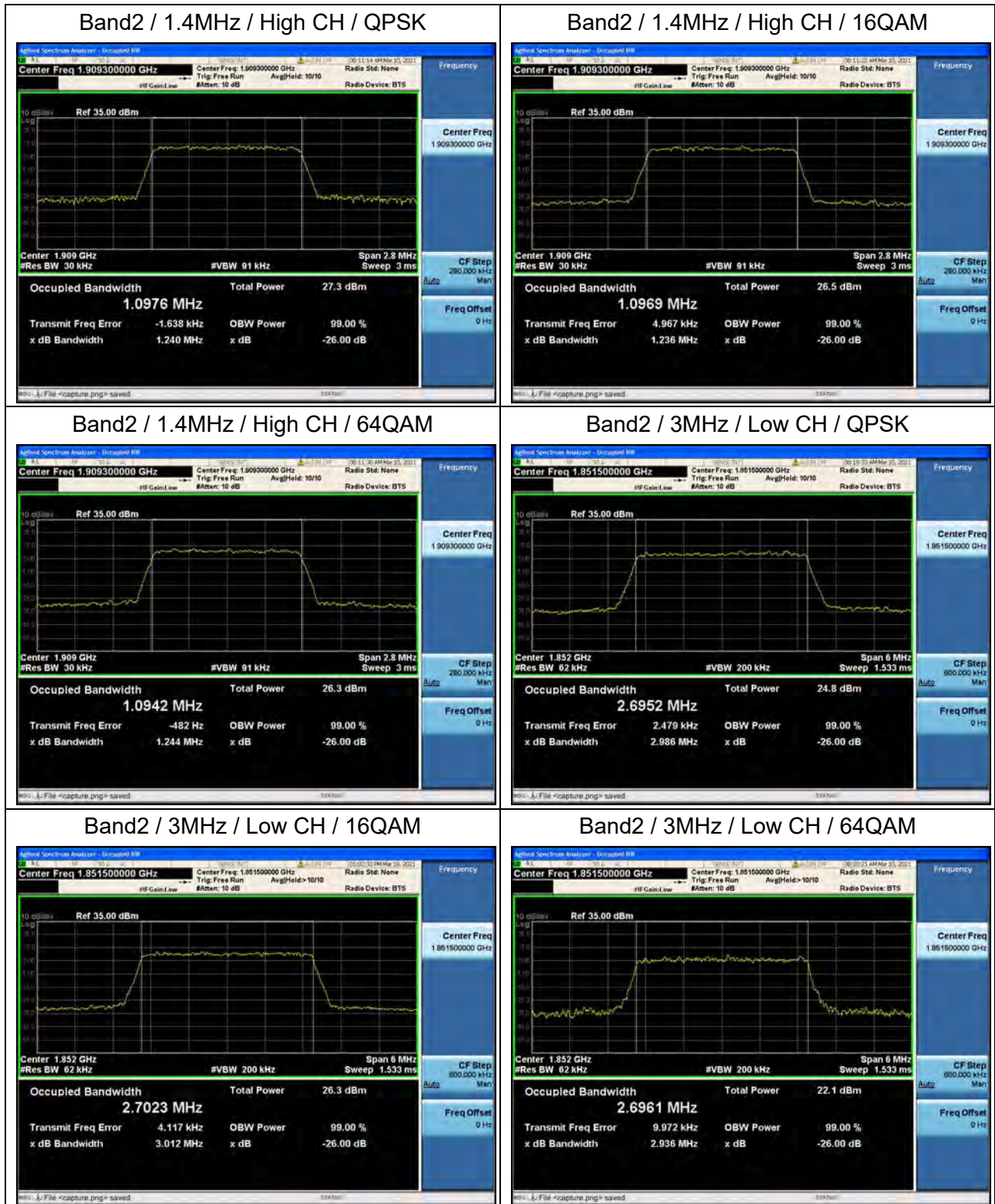


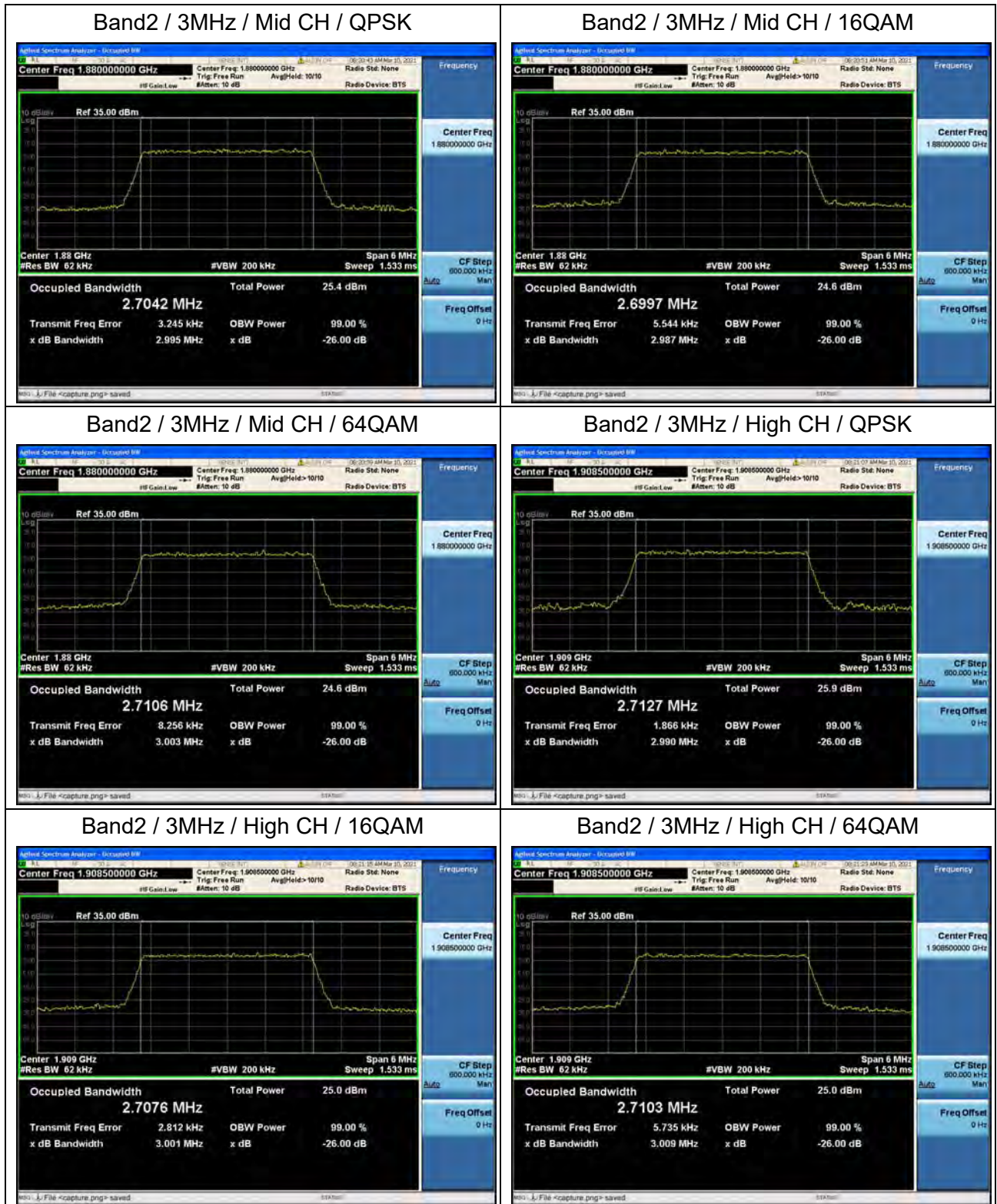
15	Low	QPSK	13.45	14.57
	Low	16QAM	13.47	14.62
	Low	64QAM	13.47	14.53
	Mid	QPSK	13.48	14.64
	Mid	16QAM	13.46	14.58
	Mid	64QAM	13.47	14.59
	High	QPSK	13.51	14.66
	High	16QAM	13.51	14.59
	High	64QAM	13.50	14.59
20	Low	QPSK	17.93	19.36
	Low	16QAM	17.94	19.21
	Low	64QAM	17.94	19.24
	Mid	QPSK	17.98	22.08
	Mid	16QAM	17.99	19.54
	Mid	64QAM	17.97	19.40
	High	QPSK	17.99	19.42
	High	16QAM	17.99	19.39
	High	64QAM	17.97	19.46



LTE Band 71				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.49	4.97
	Low	16QAM	4.48	4.94
	Low	64QAM	4.49	4.95
	Mid	QPSK	4.49	4.97
	Mid	16QAM	4.49	5.00
	Mid	64QAM	4.49	4.96
	High	QPSK	4.49	4.99
	High	16QAM	4.49	4.94
	High	64QAM	4.50	4.98
10	Low	QPSK	9.00	9.81
	Low	16QAM	8.96	9.76
	Low	64QAM	8.98	9.77
	Mid	QPSK	8.97	9.75
	Mid	16QAM	8.97	9.71
	Mid	64QAM	8.98	9.68
	High	QPSK	8.97	9.82
	High	16QAM	8.96	9.81
	High	64QAM	8.99	9.78
15	Low	QPSK	13.47	14.69
	Low	16QAM	13.44	14.66
	Low	64QAM	13.45	14.64
	Mid	QPSK	13.48	14.63
	Mid	16QAM	13.47	14.65
	Mid	64QAM	13.44	14.58
	High	QPSK	13.63	21.71
	High	16QAM	13.56	21.32
	High	64QAM	13.60	22.11
20	Low	QPSK	18.03	23.86
	Low	16QAM	18.03	24.18
	Low	64QAM	18.03	24.24
	Mid	QPSK	18.05	23.94
	Mid	16QAM	18.00	24.33
	Mid	64QAM	18.01	24.69
	High	QPSK	18.05	24.70
	High	16QAM	18.01	24.45
	High	64QAM	18.02	24.15

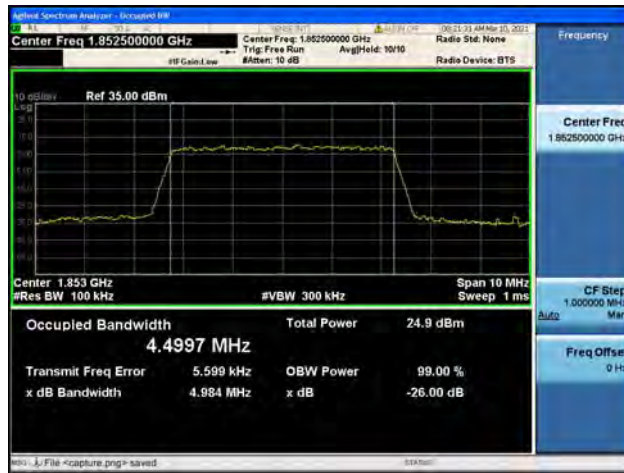




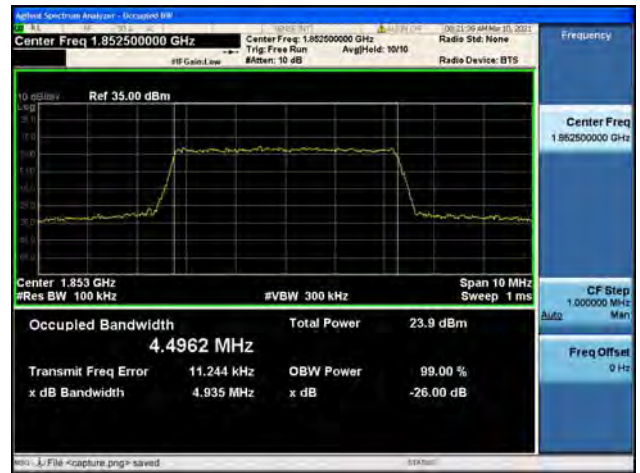




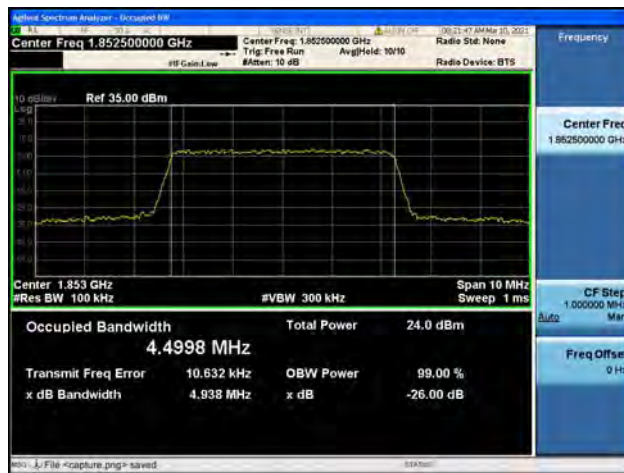
Band2 / 5MHz / Low CH / QPSK



Band2 / 5MHz / Low CH / 16QAM



Band2 / 5MHz / Low CH / 64QAM



Band2 / 5MHz / Mid CH / QPSK



Band2 / 5MHz / Mid CH / 16QAM

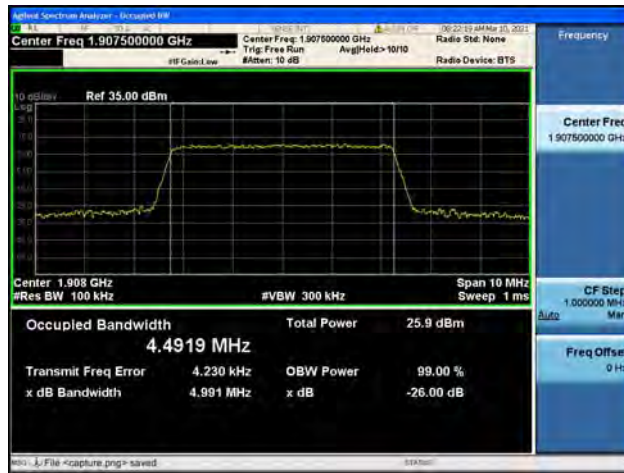


Band2 / 5MHz / Mid CH / 64QAM





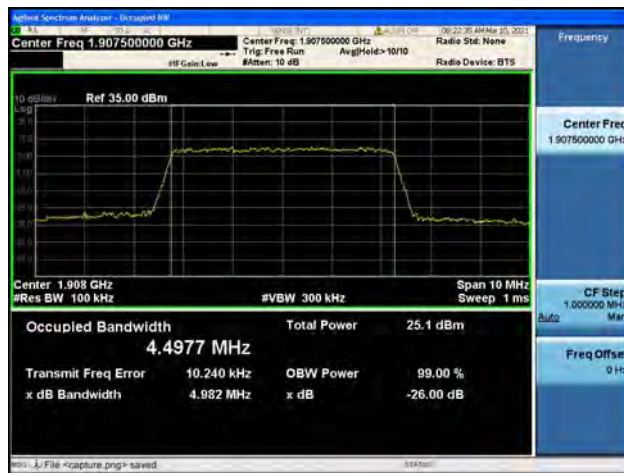
Band2 / 5MHz / High CH / QPSK



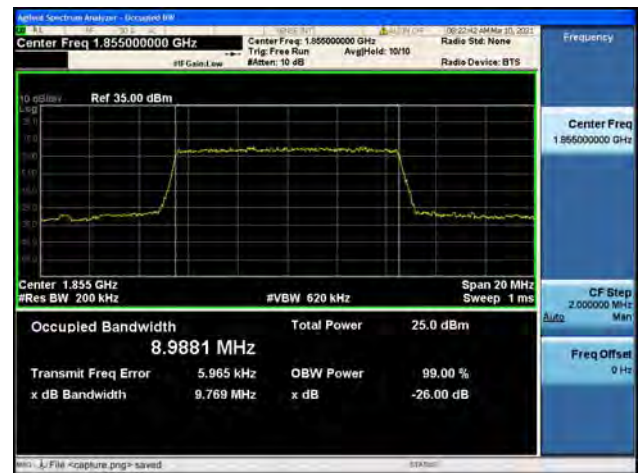
Band2 / 5MHz / High CH / 16QAM



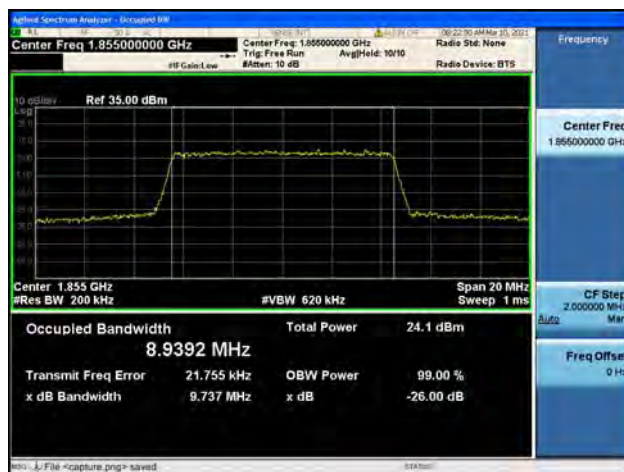
Band2 / 5MHz / High CH / 64QAM



Band2 / 10MHz / Low CH / QPSK



Band2 / 10MHz / Low CH / 16QAM



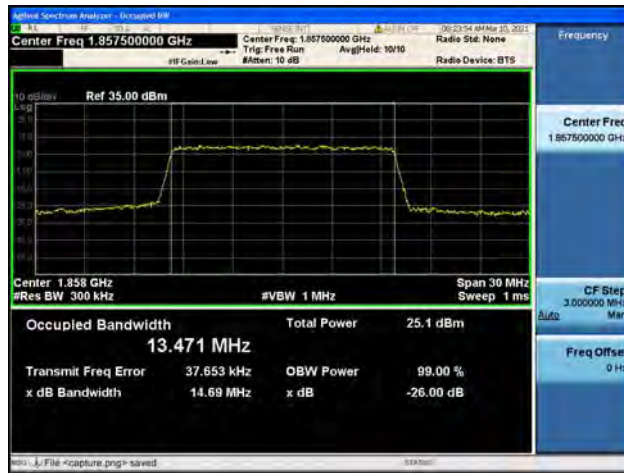
Band2 / 10MHz / Low CH / 64QAM







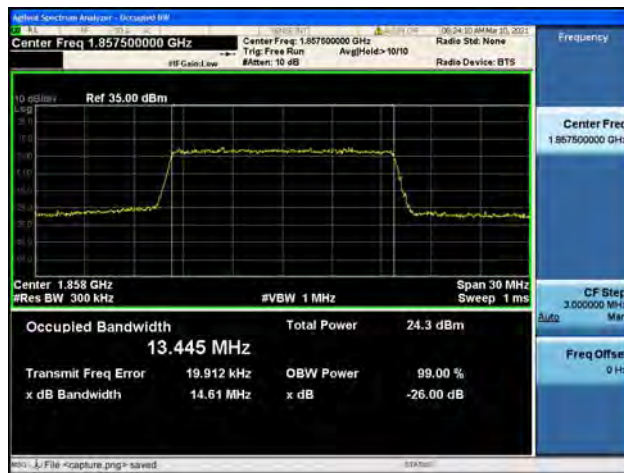
Band2 / 15MHz / Low CH / QPSK



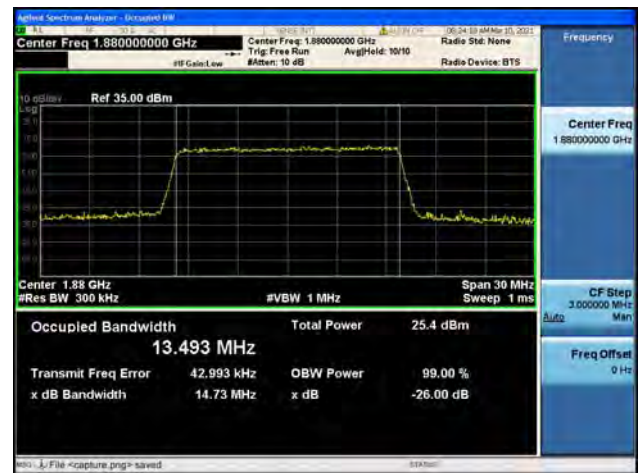
Band2 / 15MHz / Low CH / 16QAM



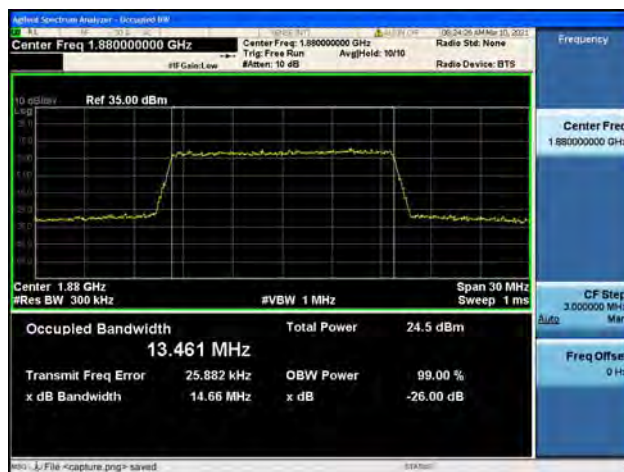
Band2 / 15MHz / Low CH / 64QAM



Band2 / 15MHz / Mid CH / QPSK



Band2 / 15MHz / Mid CH / 16QAM

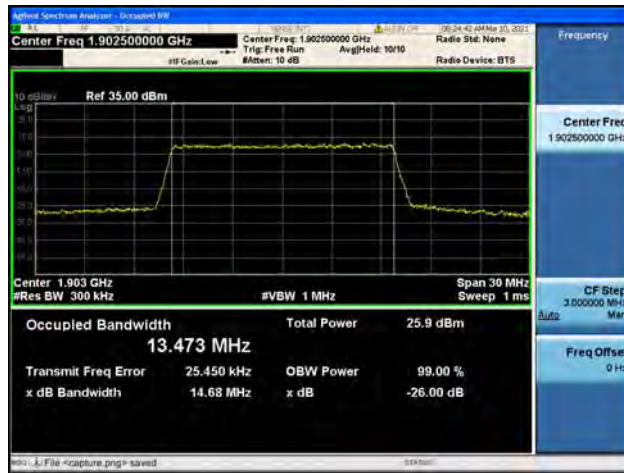


Band2 / 15MHz / Mid CH / 64QAM

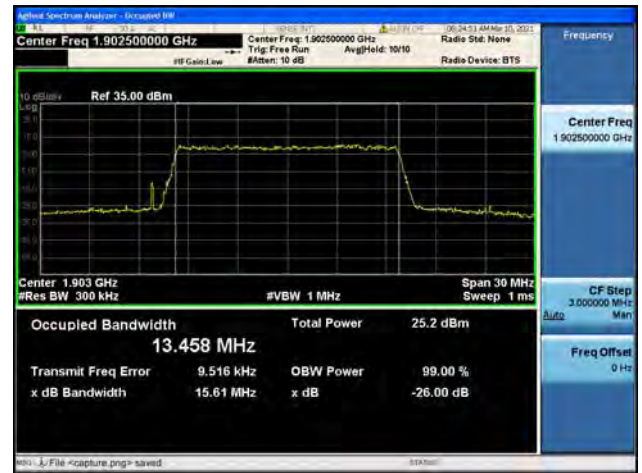




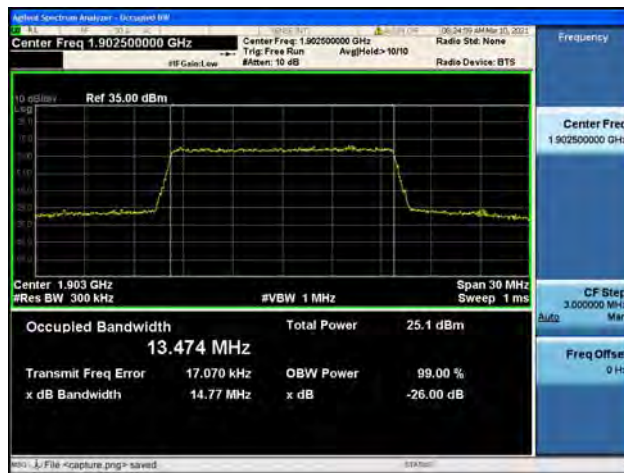
Band2 / 15MHz / High CH / QPSK



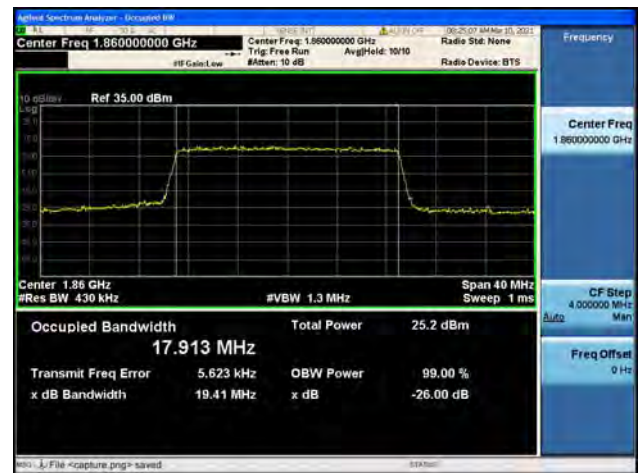
Band2 / 15MHz / High CH / 16QAM



Band2 / 15MHz / High CH / 64QAM



Band2 / 20MHz / Low CH / QPSK

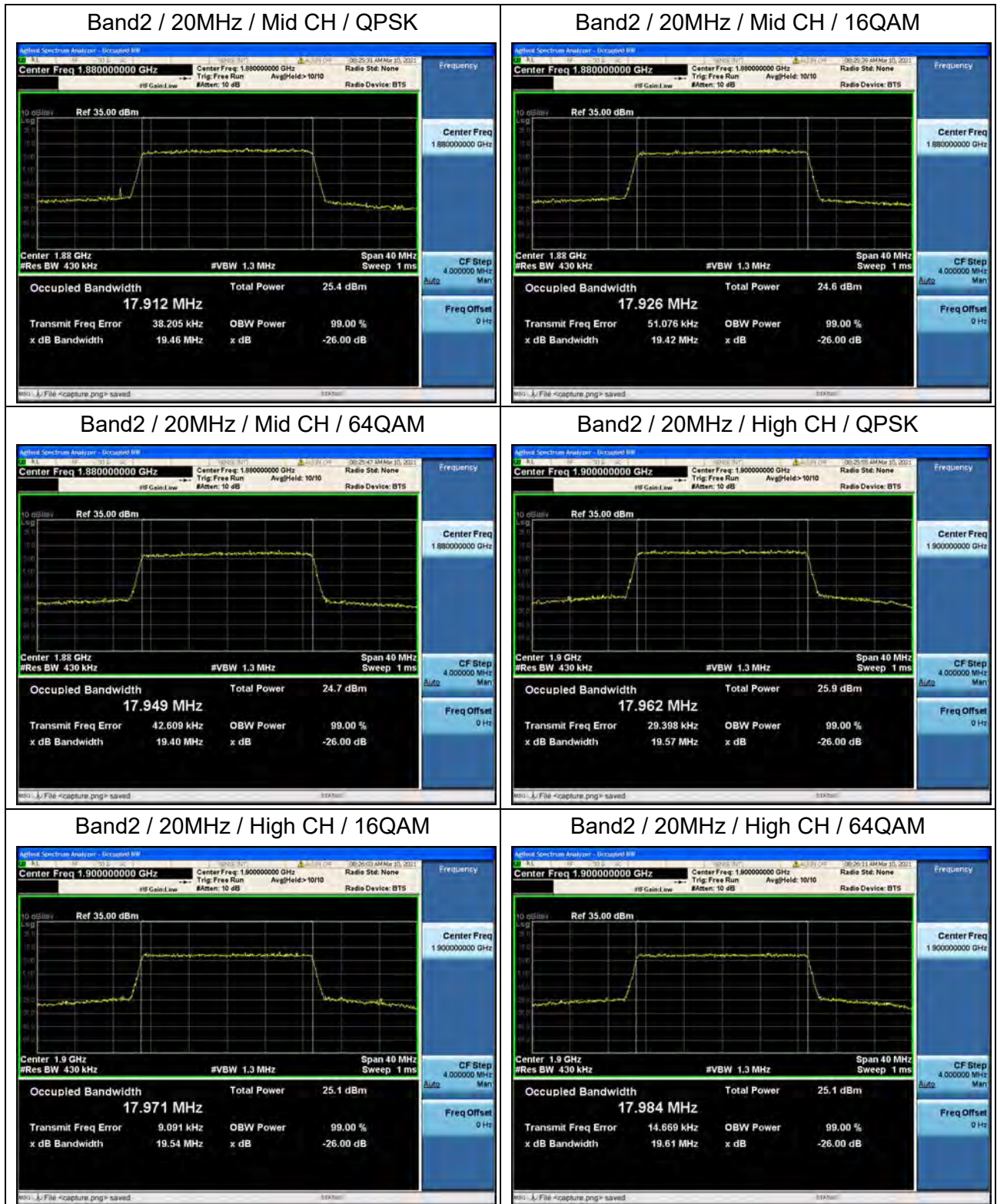


Band2 / 20MHz / Low CH / 16QAM



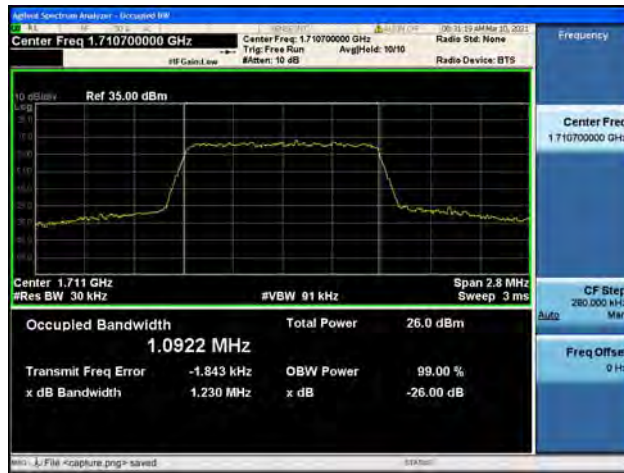
Band2 / 20MHz / Low CH / 64QAM



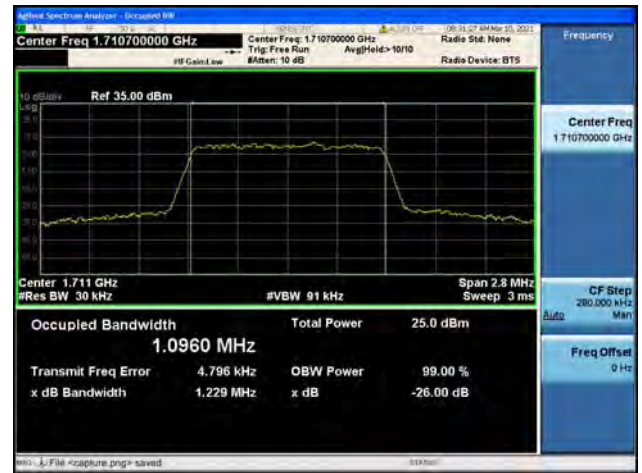




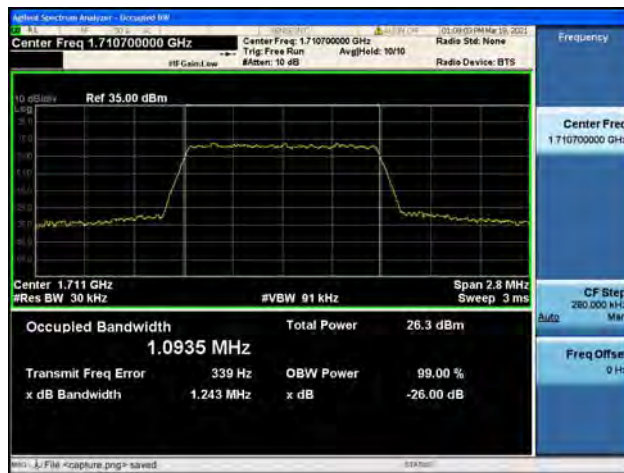
Band4 / 1.4MHz / Low CH / QPSK



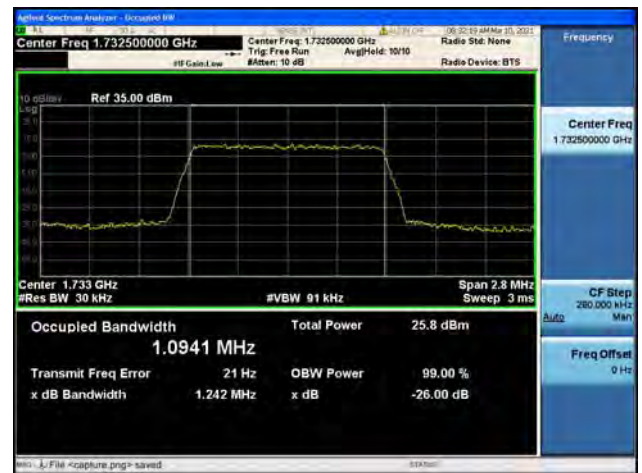
Band4 / 1.4MHz / Low CH / 16QAM



Band4 / 1.4MHz / Low CH / 64QAM



Band4 / 1.4MHz / Mid CH / QPSK



Band4 / 1.4MHz / Mid CH / 16QAM

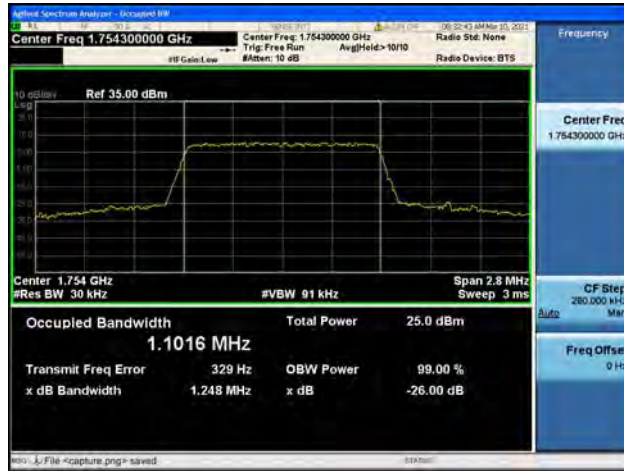


Band4 / 1.4MHz / Mid CH / 64QAM





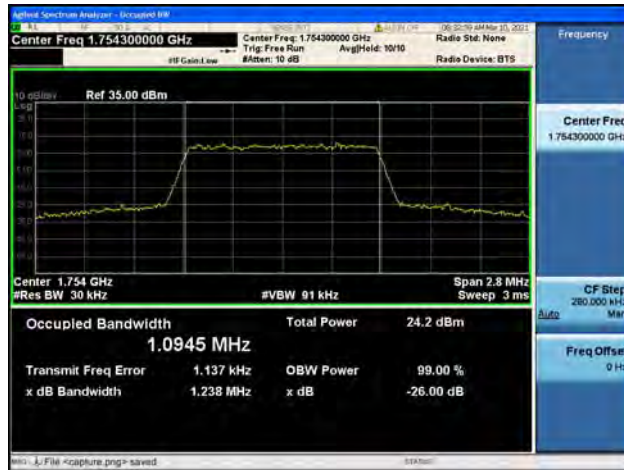
Band4 / 1.4MHz / High CH / QPSK



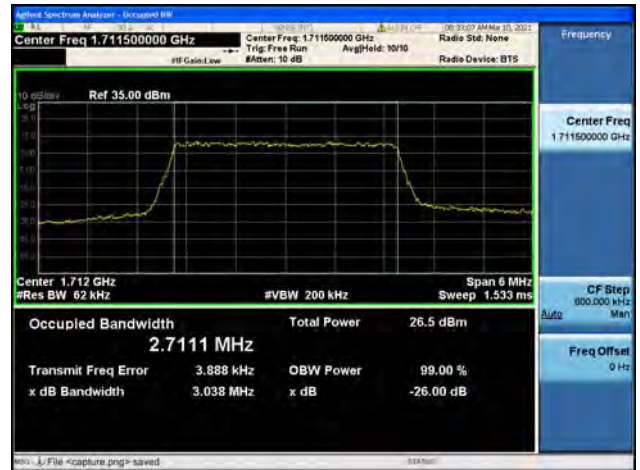
Band4 / 1.4MHz / High CH / 16QAM



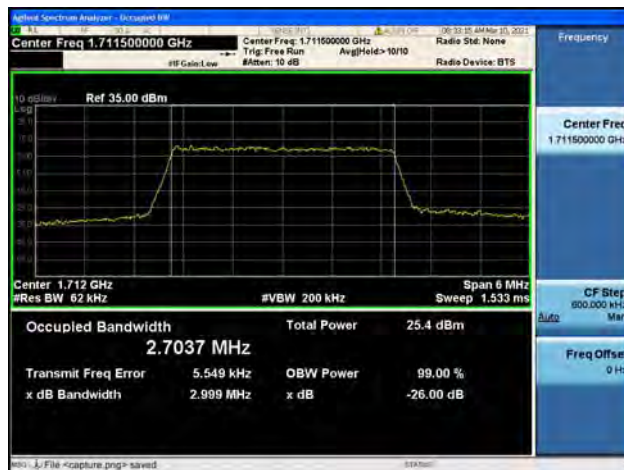
Band4 / 1.4MHz / High CH / 64QAM



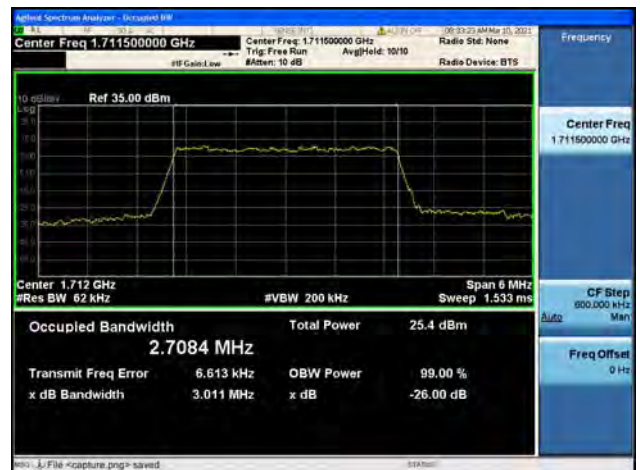
Band4 / 3MHz / Low CH / QPSK



Band4 / 3MHz / Low CH / 16QAM

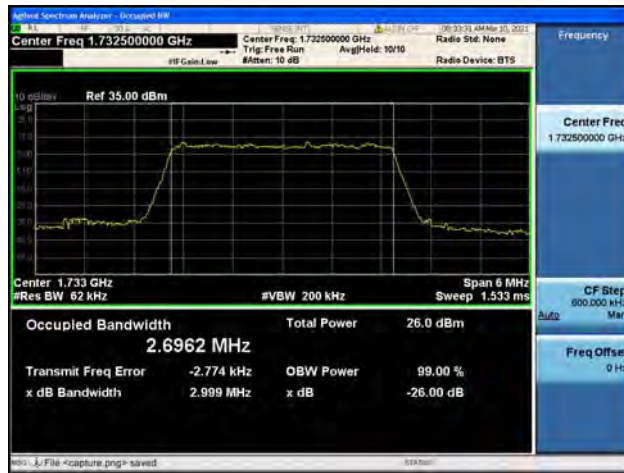


Band4 / 3MHz / Low CH / 64QAM

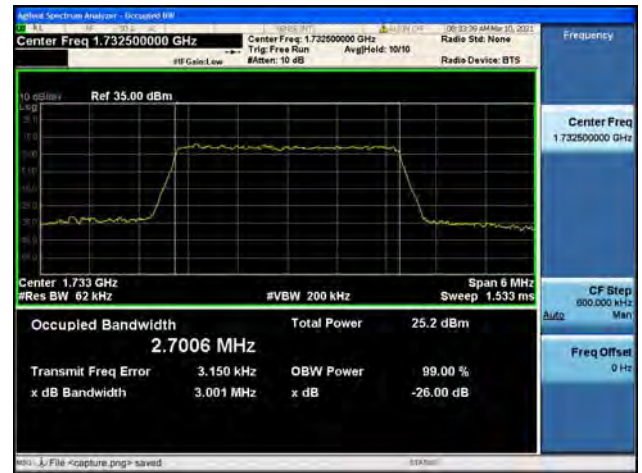




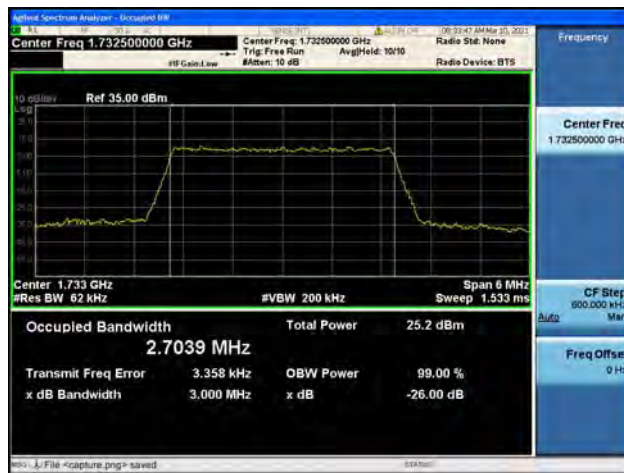
Band4 / 3MHz / Mid CH / QPSK



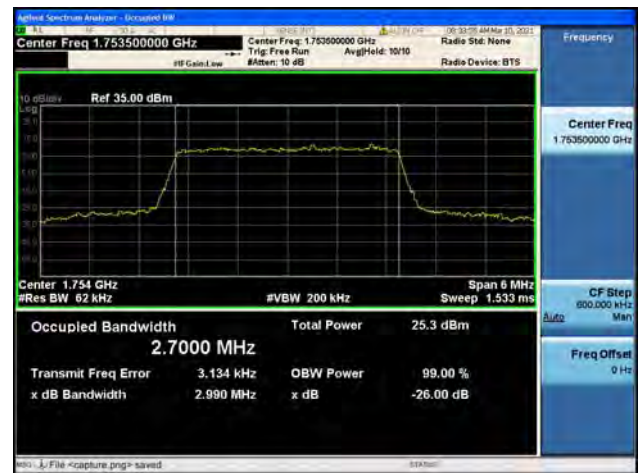
Band4 / 3MHz / Mid CH / 16QAM



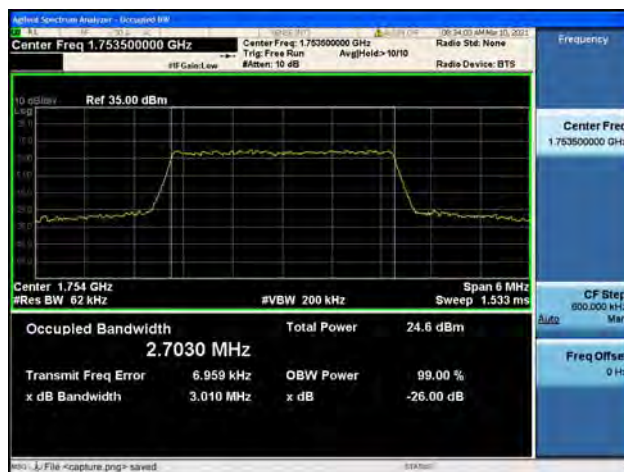
Band4 / 3MHz / Mid CH / 64QAM



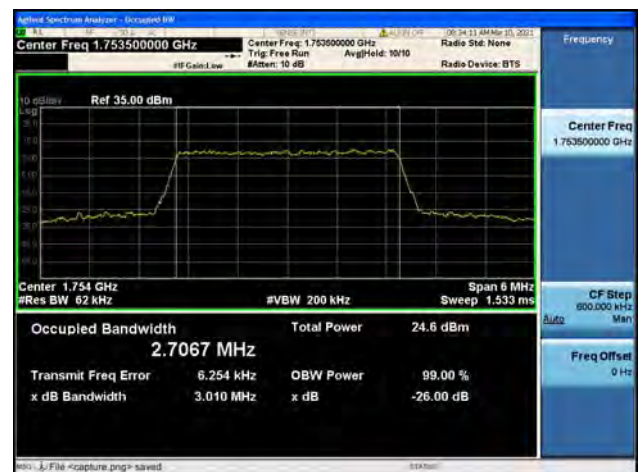
Band4 / 3MHz / High CH / QPSK



Band4 / 3MHz / High CH / 16QAM

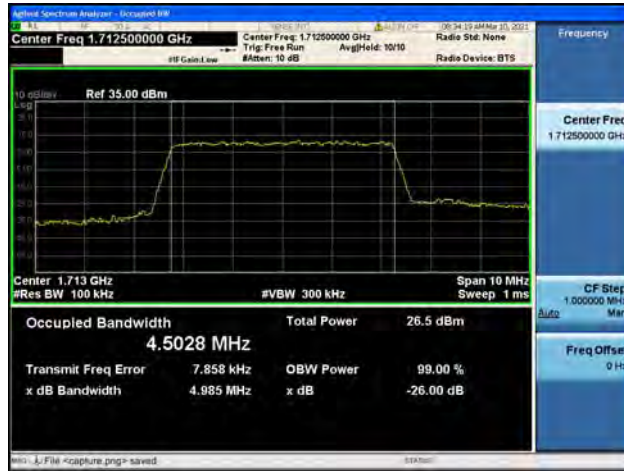


Band4 / 3MHz / High CH / 64QAM

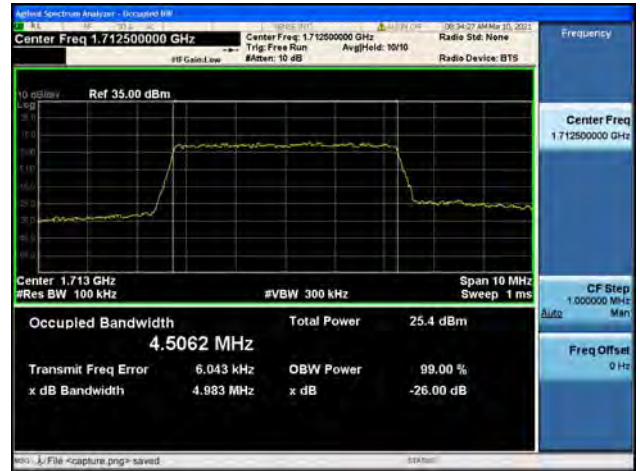




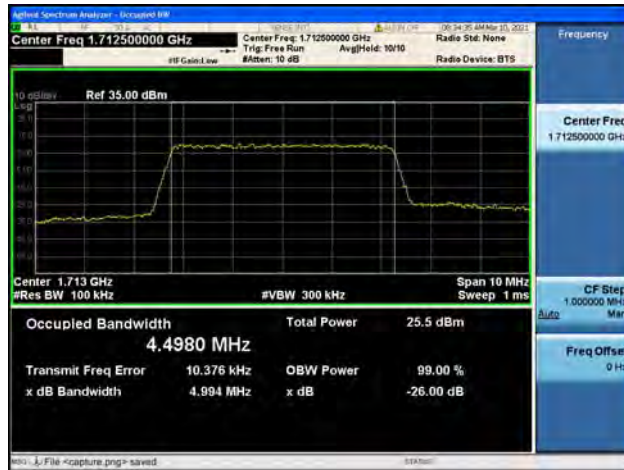
Band4 / 5MHz / Low CH / QPSK



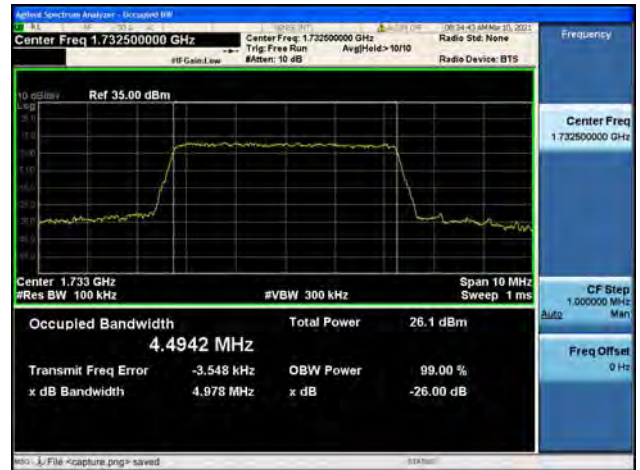
Band4 / 5MHz / Low CH / 16QAM



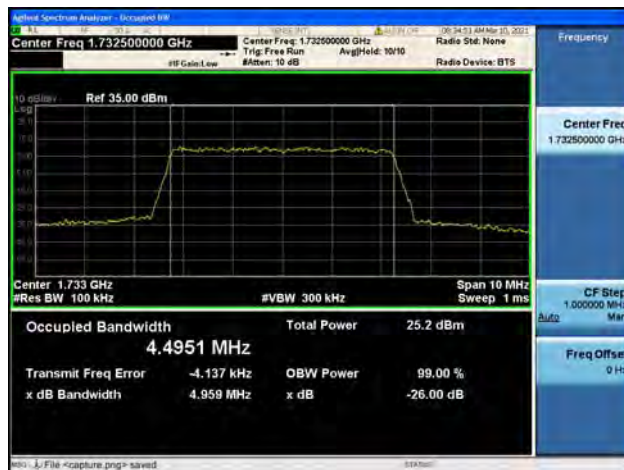
Band4 / 5MHz / Low CH / 64QAM



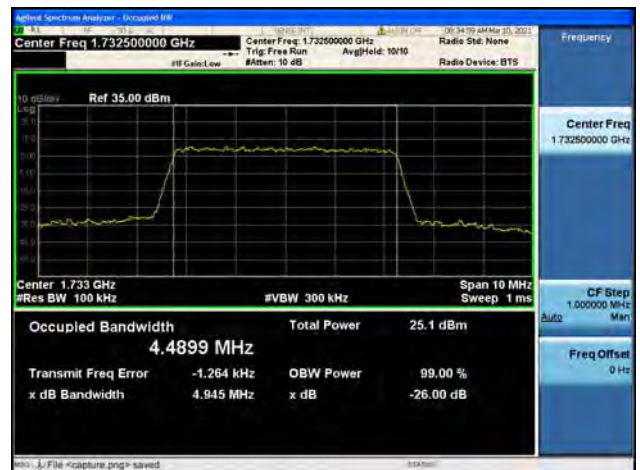
Band4 / 5MHz / Mid CH / QPSK

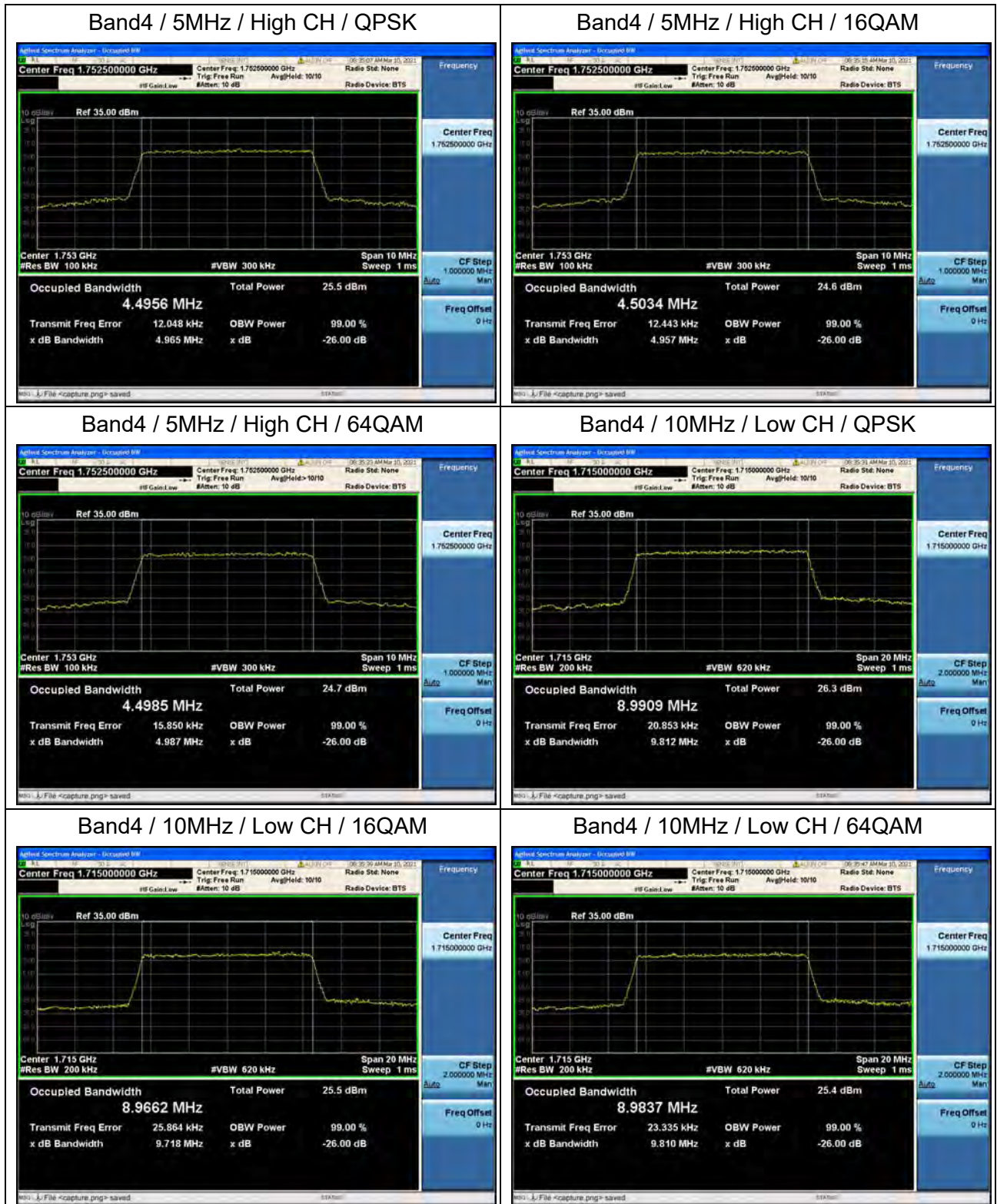


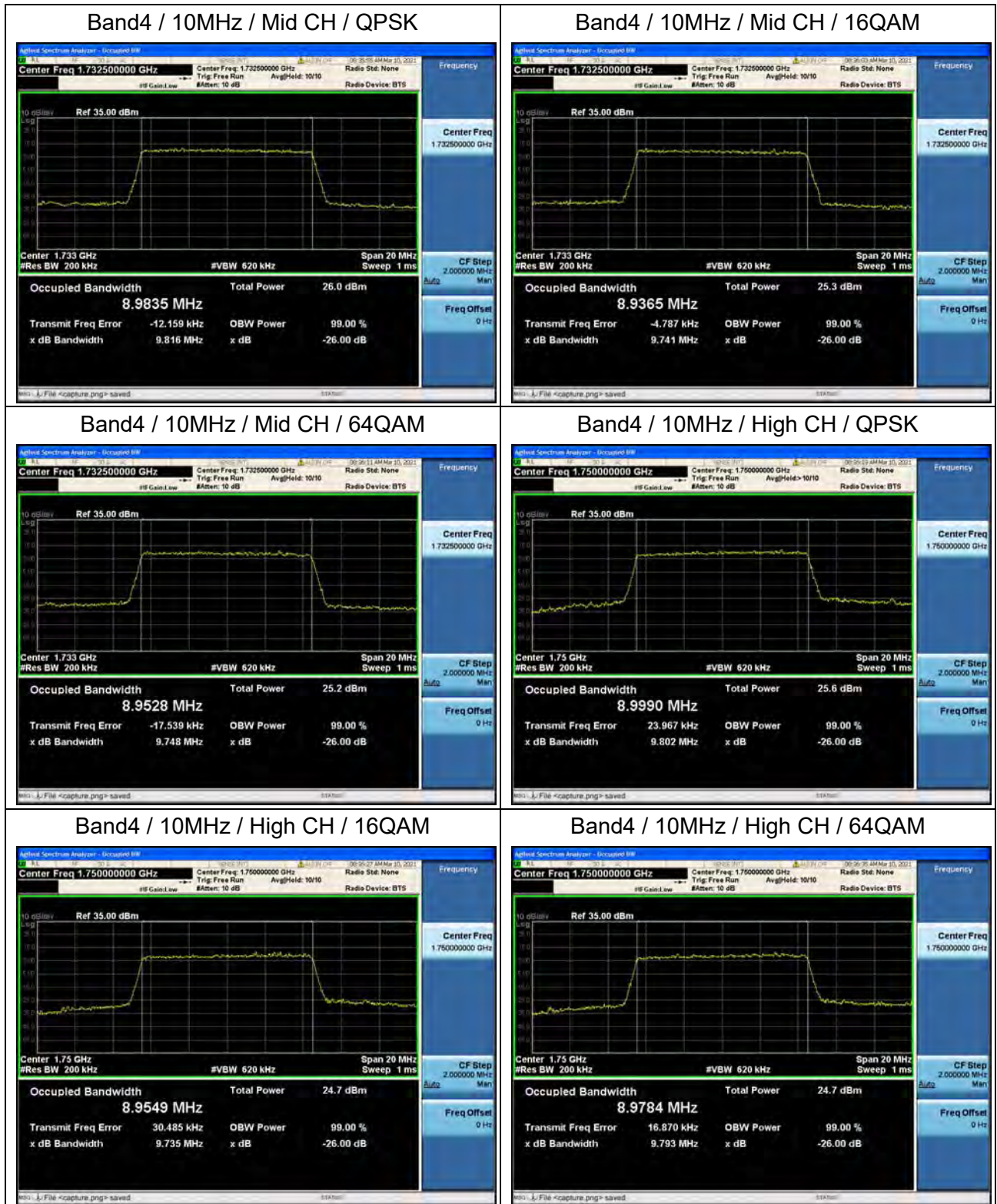
Band4 / 5MHz / Mid CH / 16QAM



Band4 / 5MHz / Mid CH / 64QAM

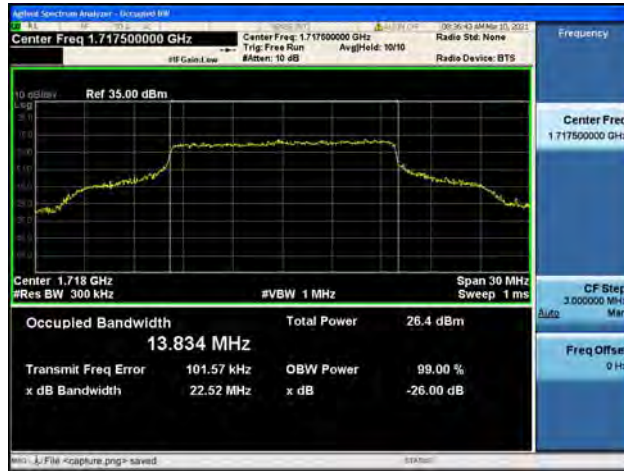




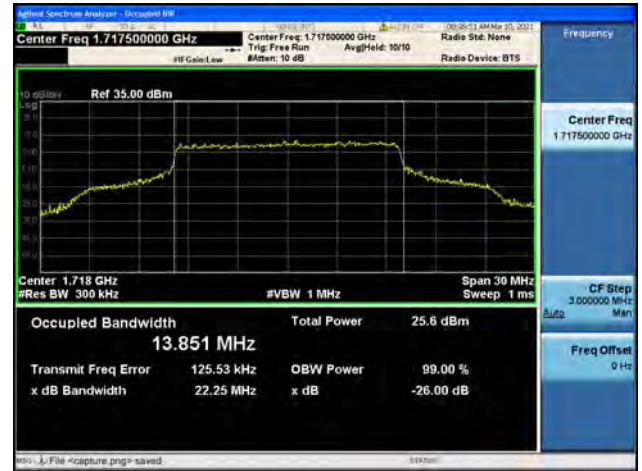




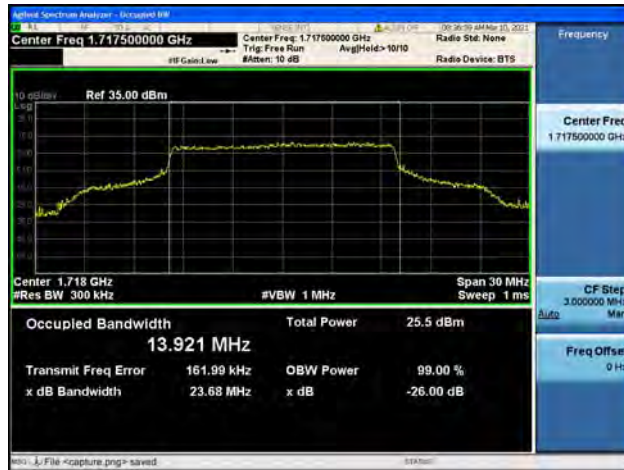
Band4 / 15MHz / Low CH / QPSK



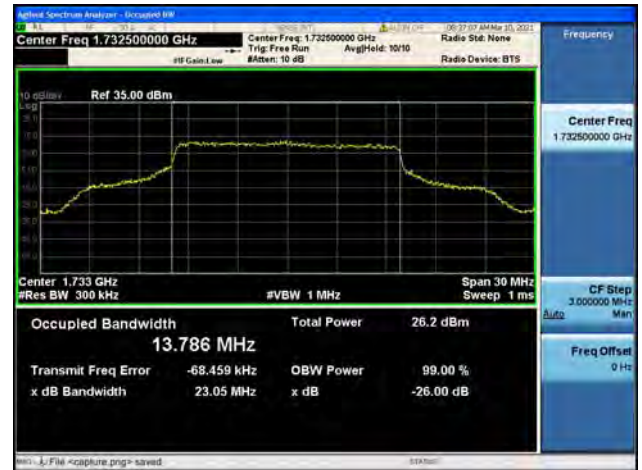
Band4 / 15MHz / Low CH / 16QAM



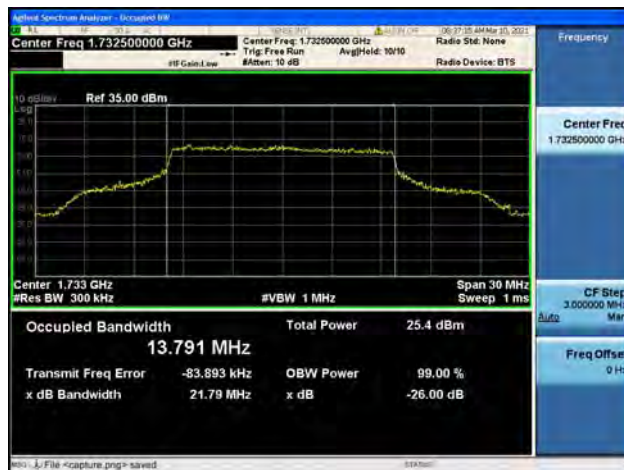
Band4 / 15MHz / Low CH / 64QAM



Band4 / 15MHz / Mid CH / QPSK



Band4 / 15MHz / Mid CH / 16QAM

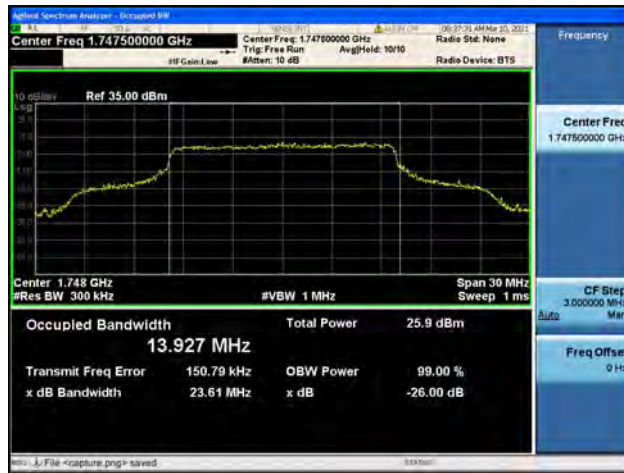


Band4 / 15MHz / Mid CH / 64QAM

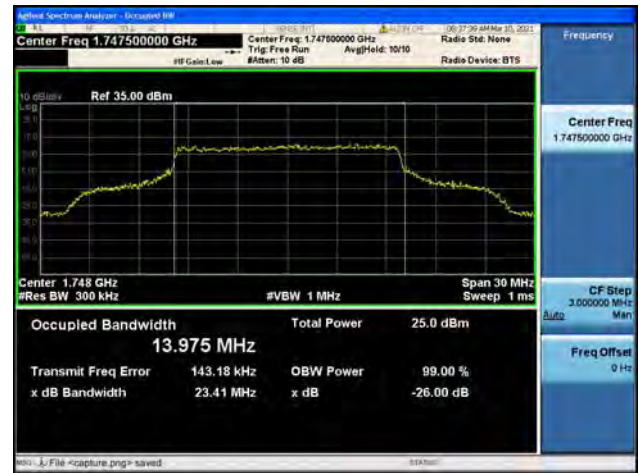




Band4 / 15MHz / High CH / QPSK



Band4 / 15MHz / High CH / 16QAM



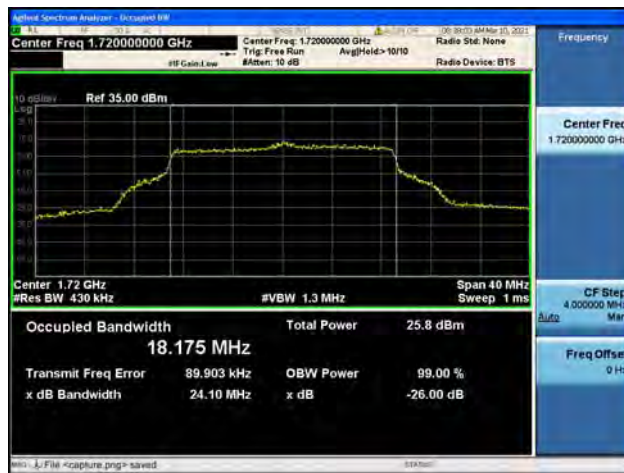
Band4 / 15MHz / High CH / 64QAM



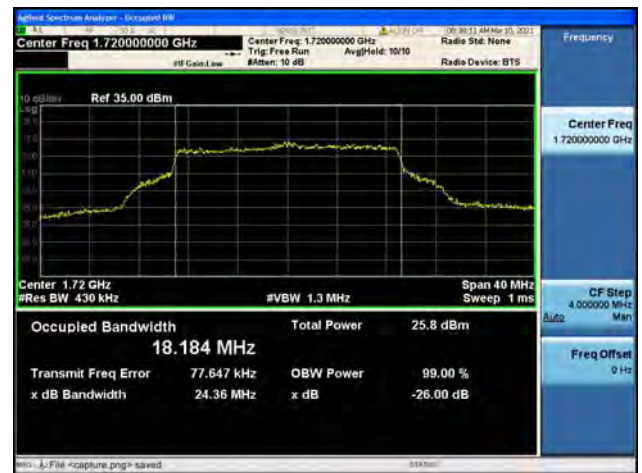
Band4 / 20MHz / Low CH / QPSK

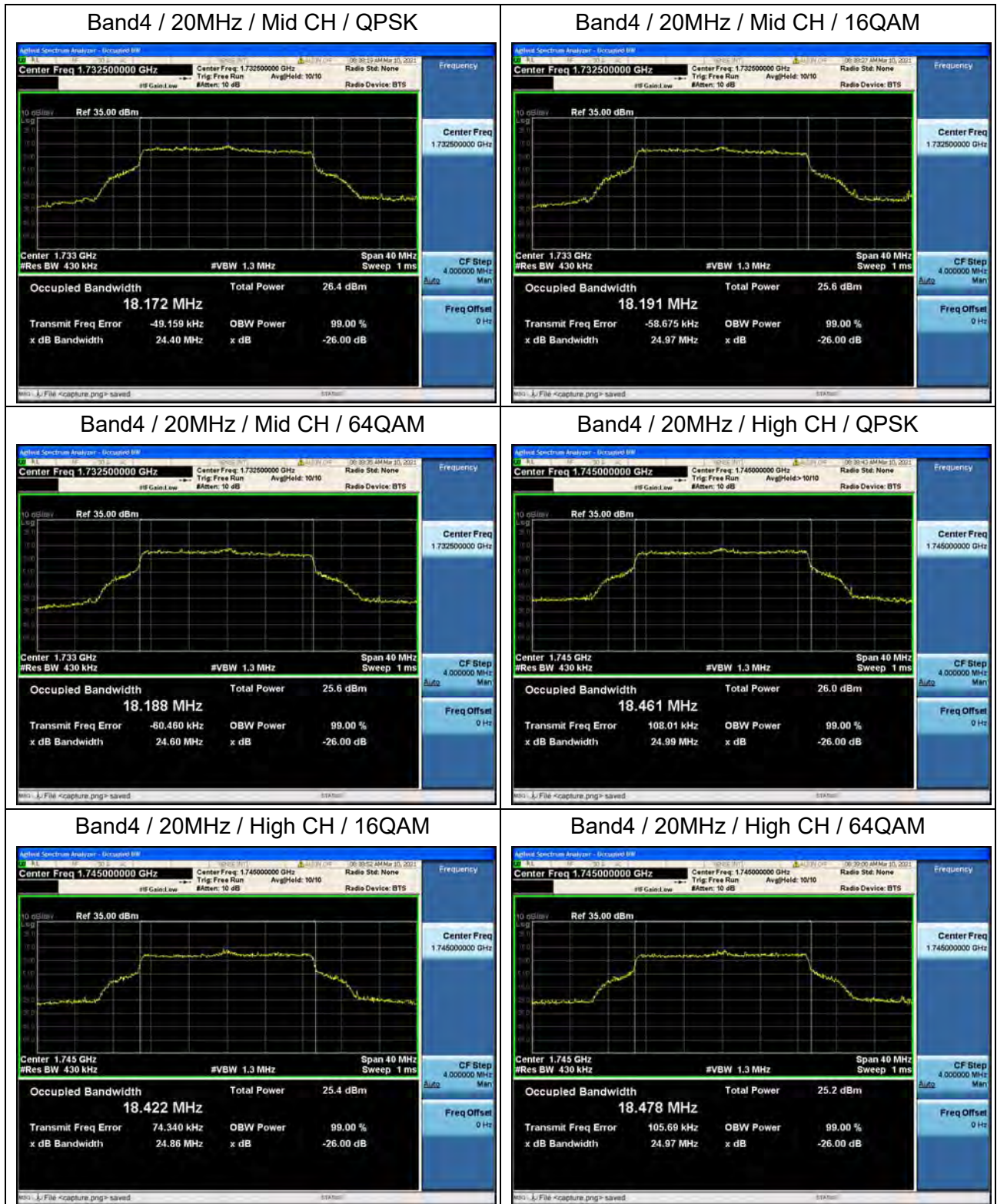


Band4 / 20MHz / Low CH / 16QAM



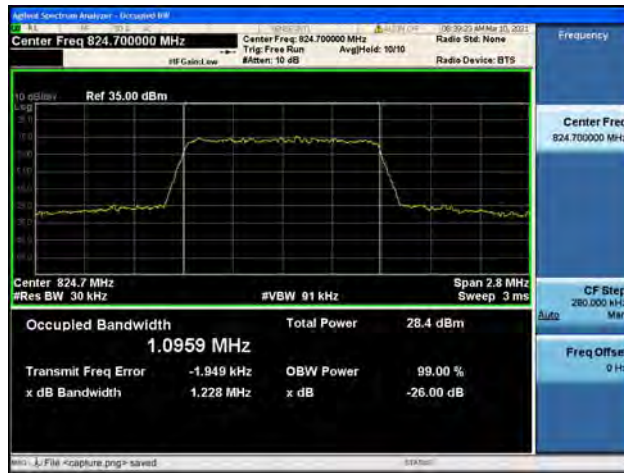
Band4 / 20MHz / Low CH / 64QAM



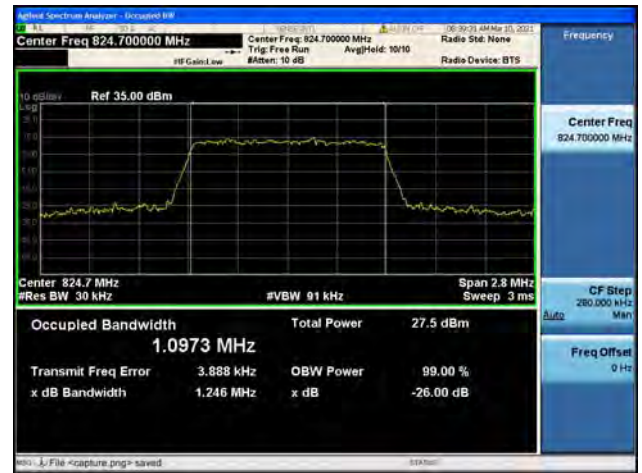




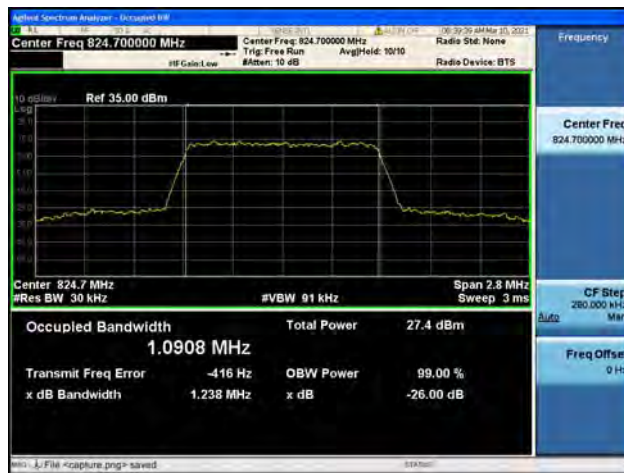
Band5 / 1.4MHz / Low CH / QPSK



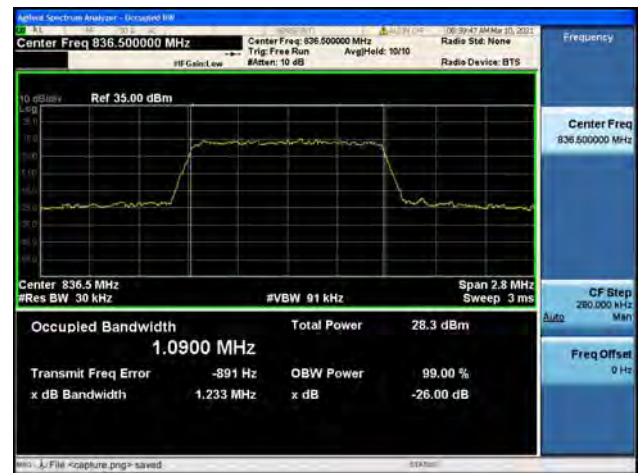
Band5 / 1.4MHz / Low CH / 16QAM



Band5 / 1.4MHz / Low CH / 64QAM



Band5 / 1.4MHz / Mid CH / QPSK



Band5 / 1.4MHz / Mid CH / 16QAM

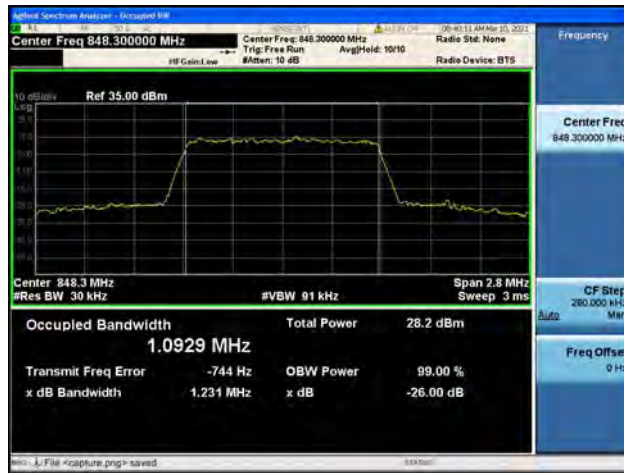


Band5 / 1.4MHz / Mid CH / 64QAM

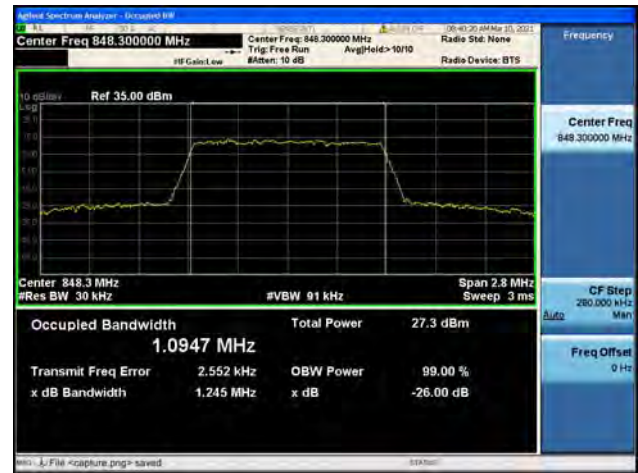




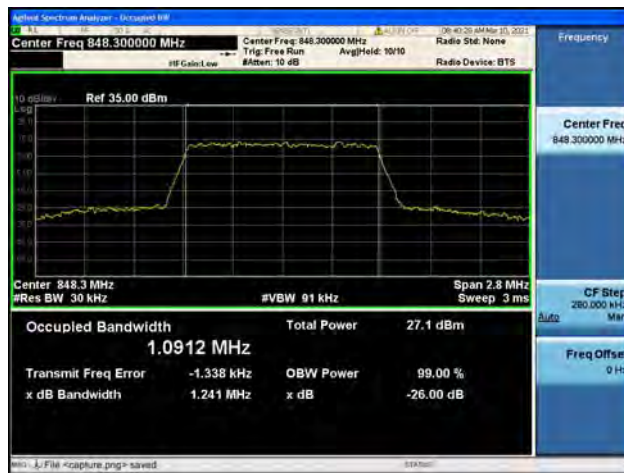
Band5 / 1.4MHz / High CH / QPSK



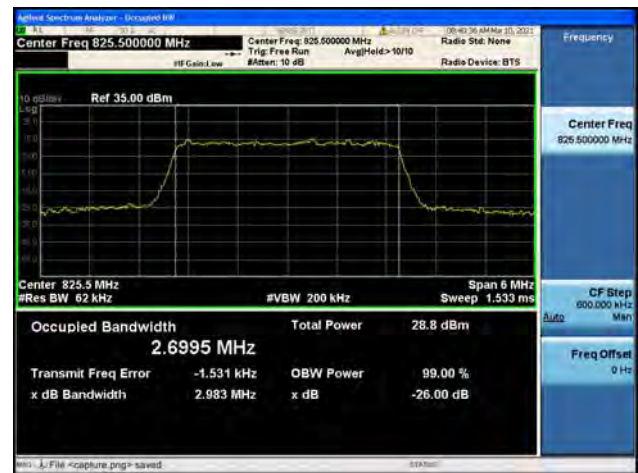
Band5 / 1.4MHz / High CH / 16QAM



Band5 / 1.4MHz / High CH / 64QAM



Band5 / 3MHz / Low CH / QPSK

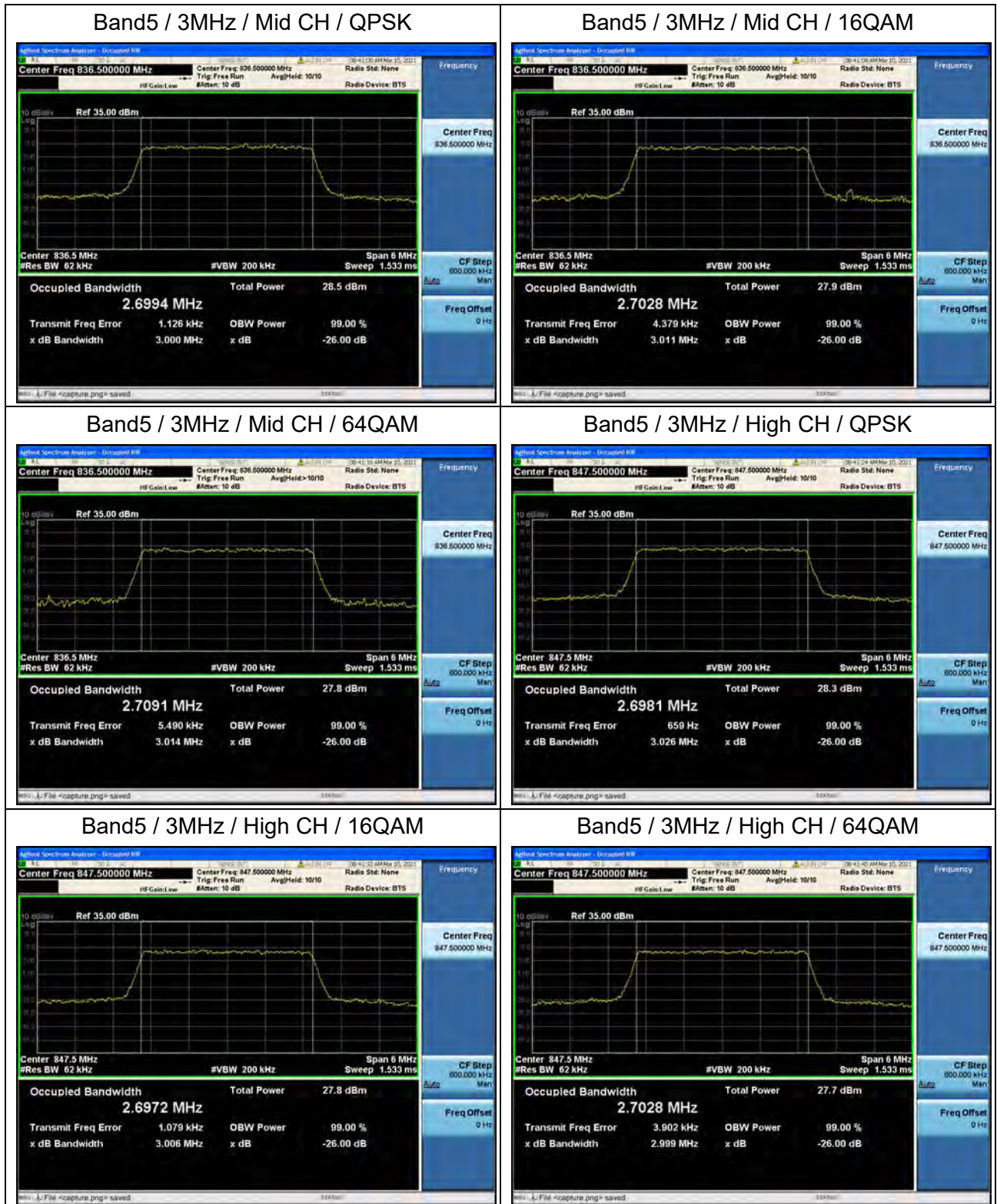


Band5 / 3MHz / Low CH / 16QAM



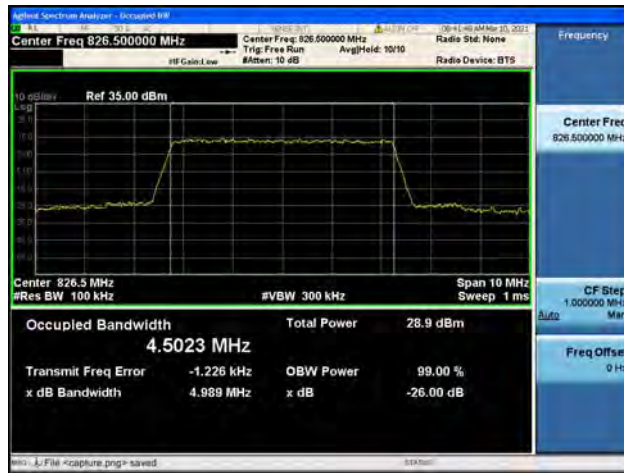
Band5 / 3MHz / Low CH / 64QAM







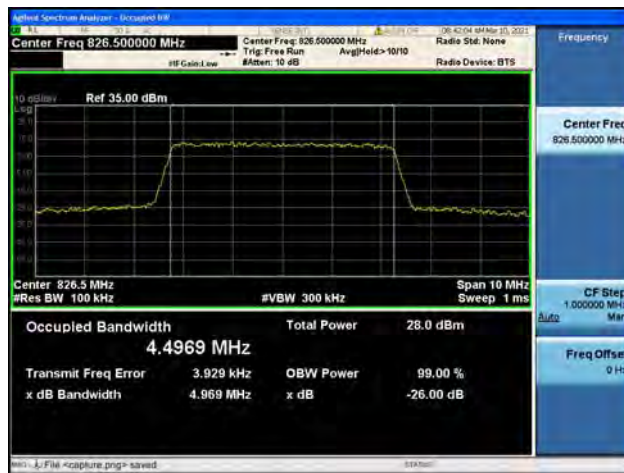
Band5 / 5MHz / Low CH / QPSK



Band5 / 5MHz / Low CH / 16QAM



Band5 / 5MHz / Low CH / 64QAM



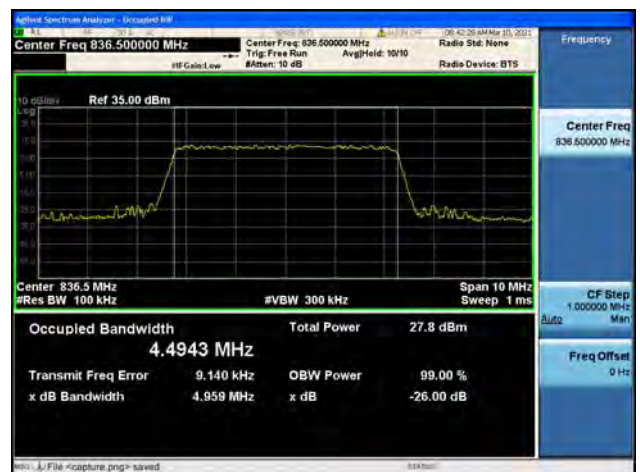
Band5 / 5MHz / Mid CH / QPSK

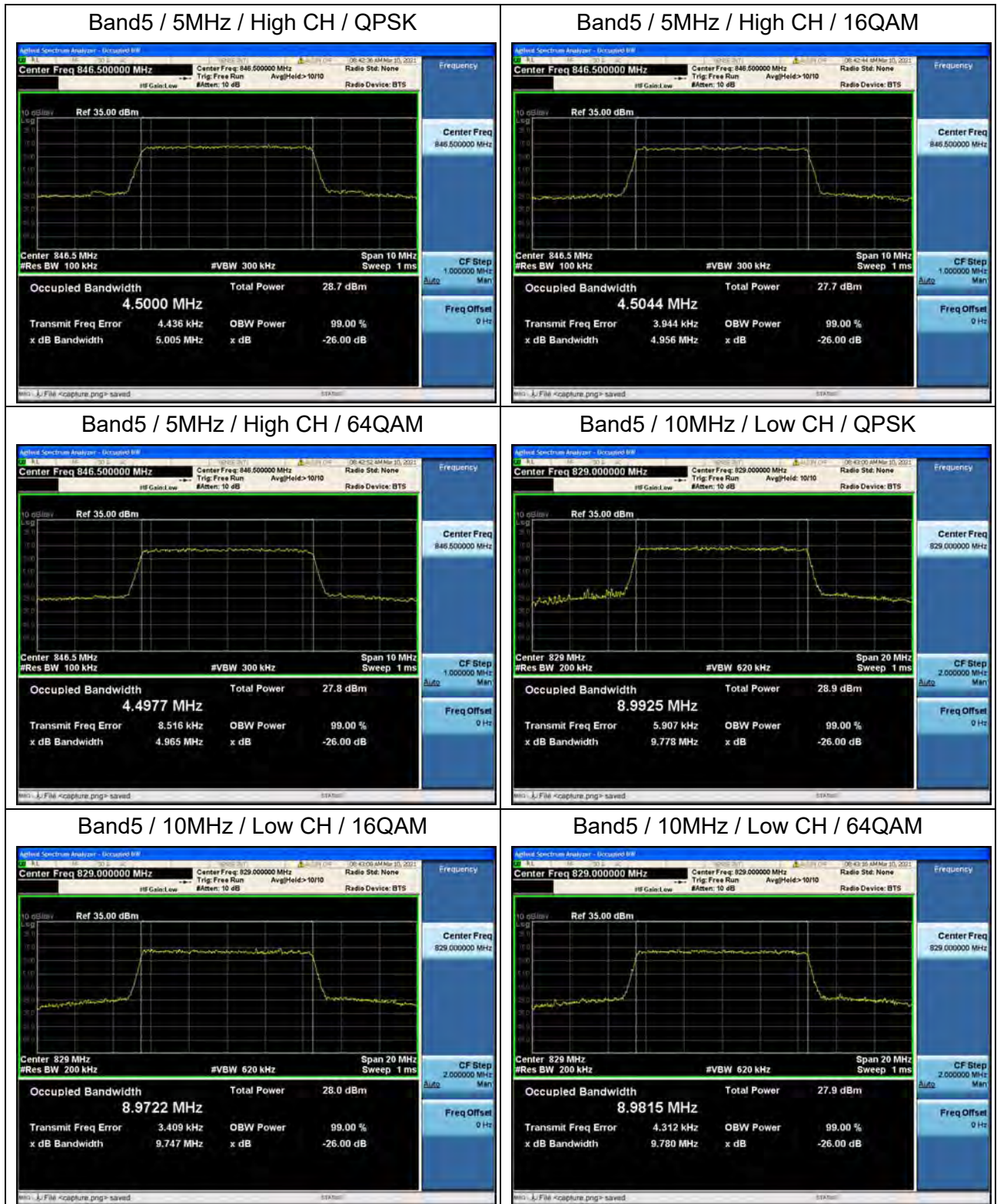


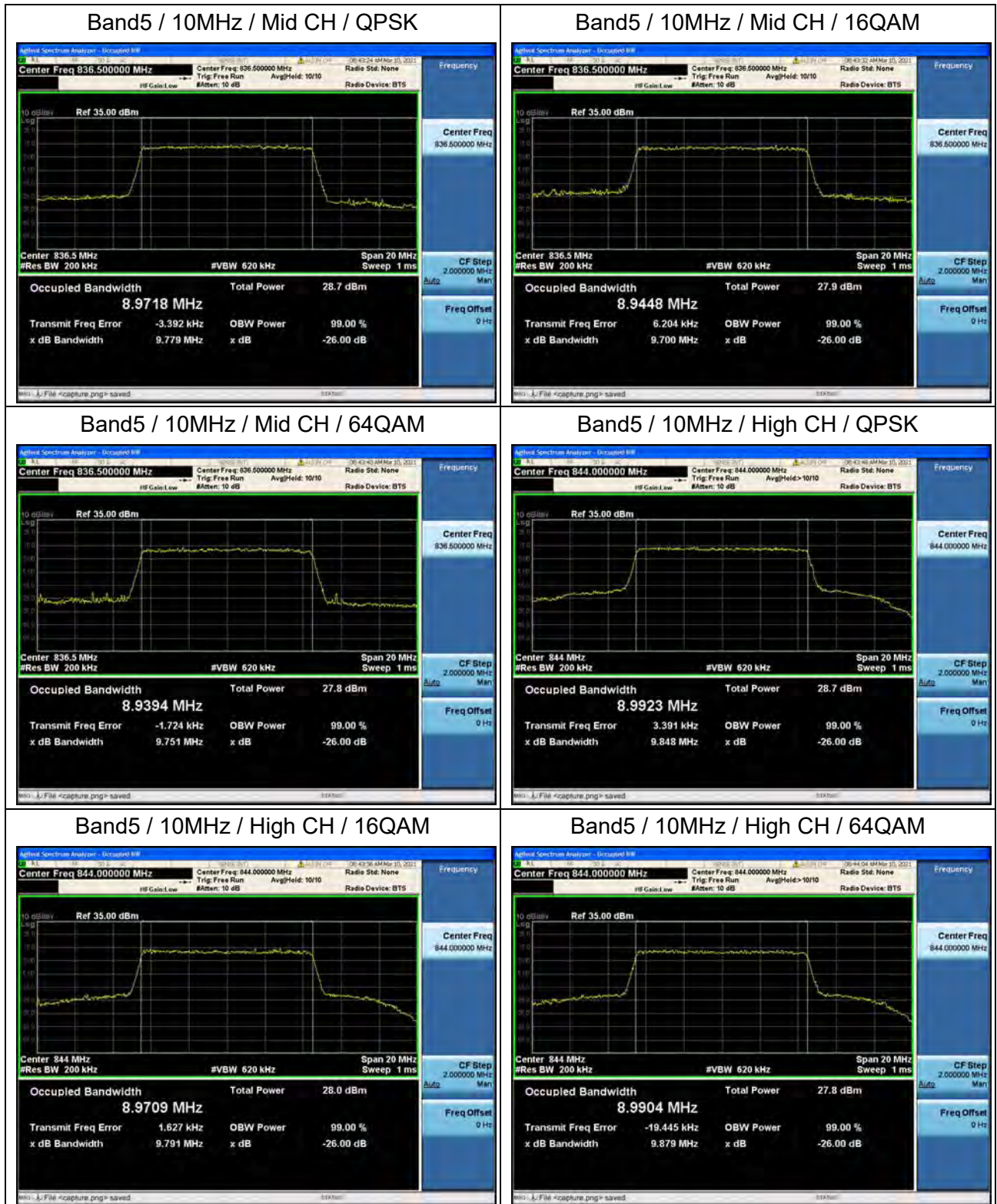
Band5 / 5MHz / Mid CH / 16QAM



Band5 / 5MHz / Mid CH / 64QAM

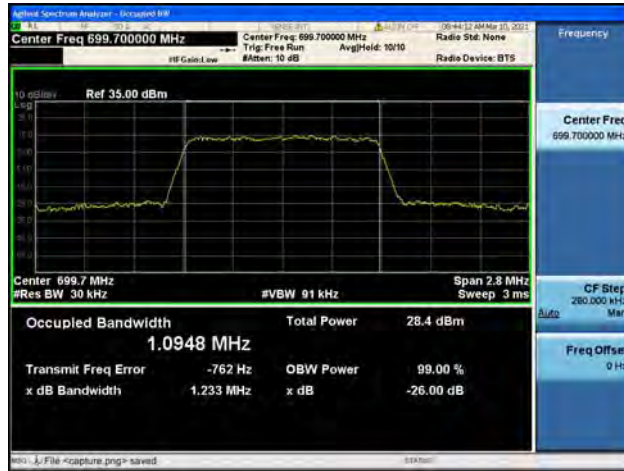




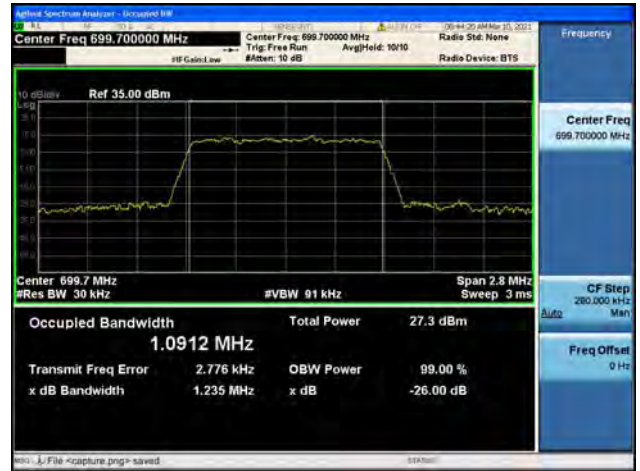




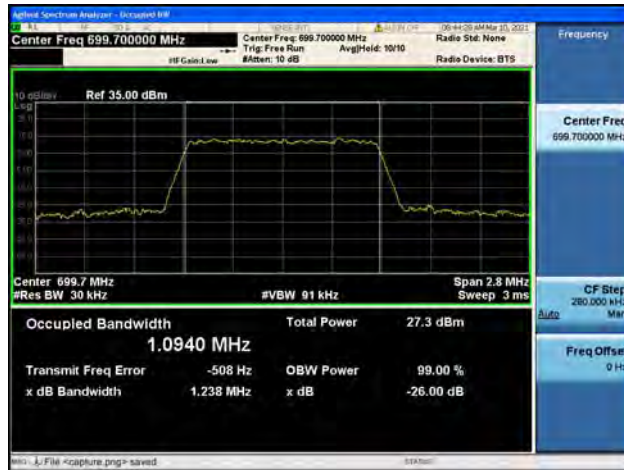
Band12 / 1.4MHz / Low CH / QPSK



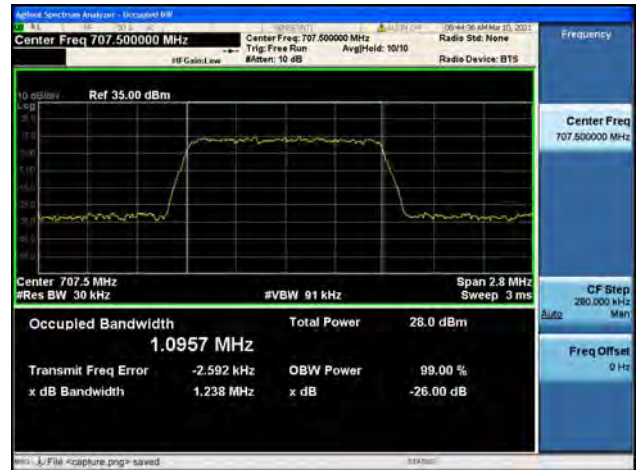
Band12 / 1.4MHz / Low CH / 16QAM



Band12 / 1.4MHz / Low CH / 64QAM



Band12 / 1.4MHz / Mid CH / QPSK

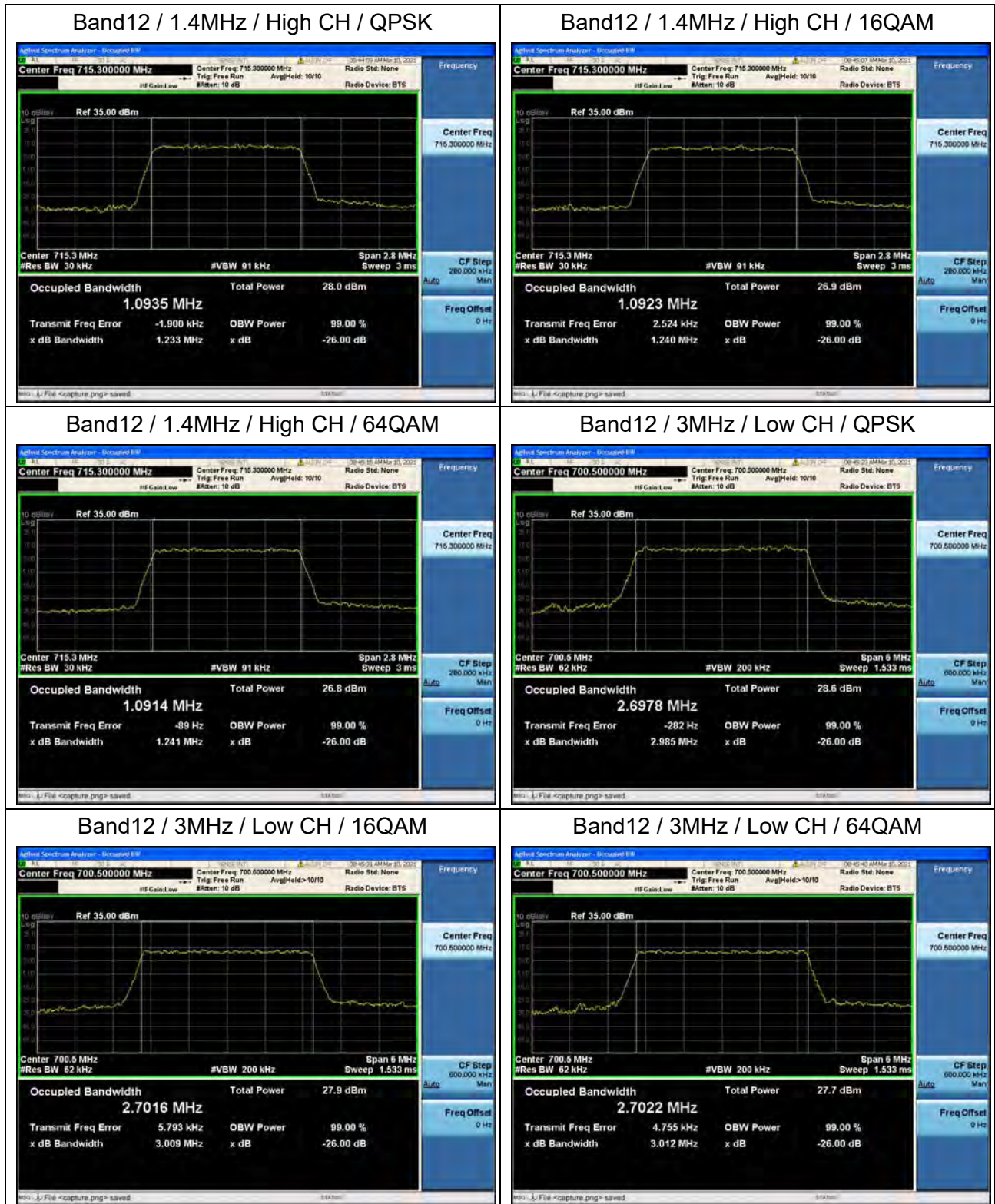


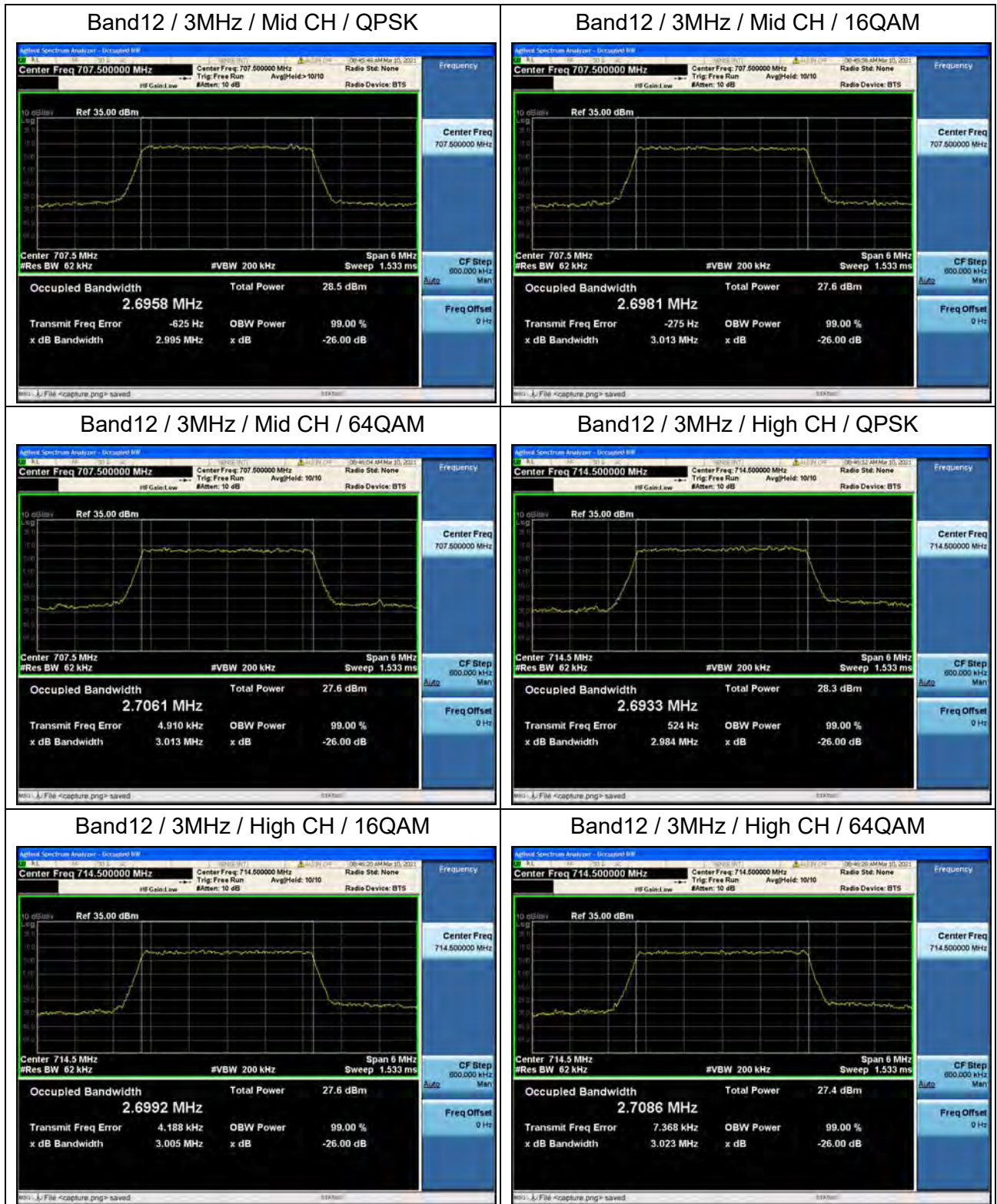
Band12 / 1.4MHz / Mid CH / 16QAM



Band12 / 1.4MHz / Mid CH / 64QAM

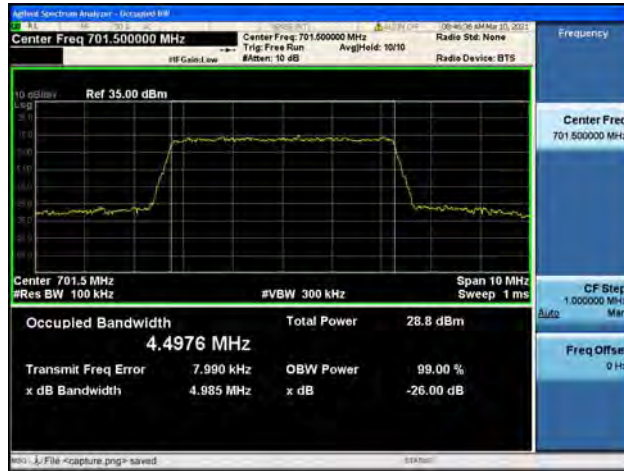




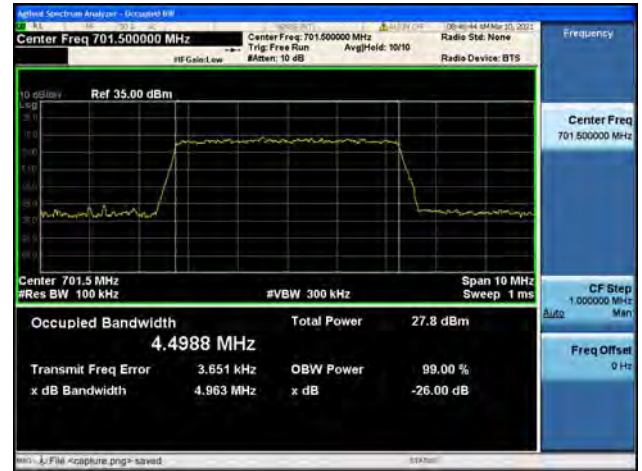




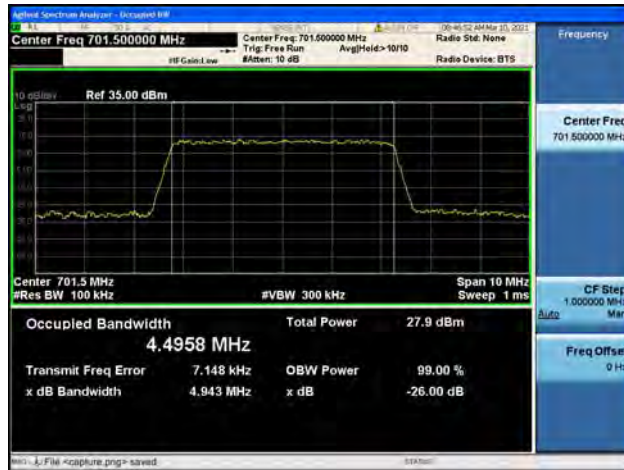
Band12 / 5MHz / Low CH / QPSK



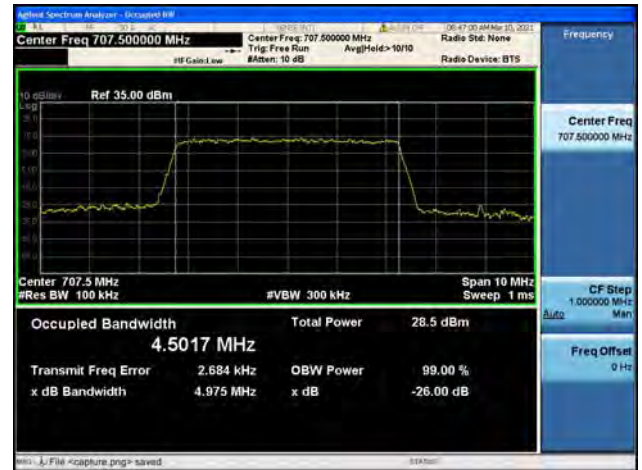
Band12 / 5MHz / Low CH / 16QAM



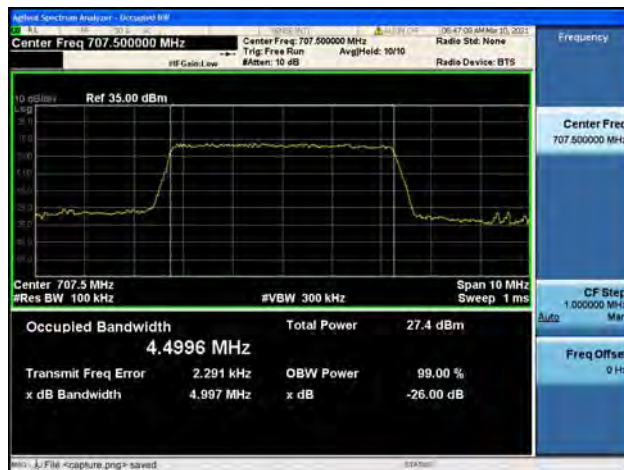
Band12 / 5MHz / Low CH / 64QAM



Band12 / 5MHz / Mid CH / QPSK



Band12 / 5MHz / Mid CH / 16QAM

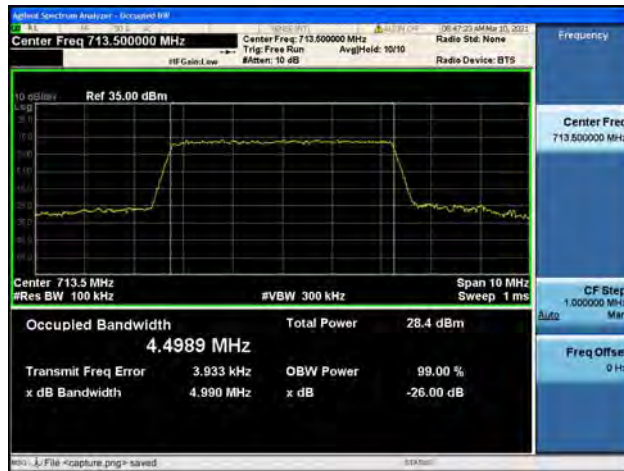


Band12 / 5MHz / Mid CH / 64QAM

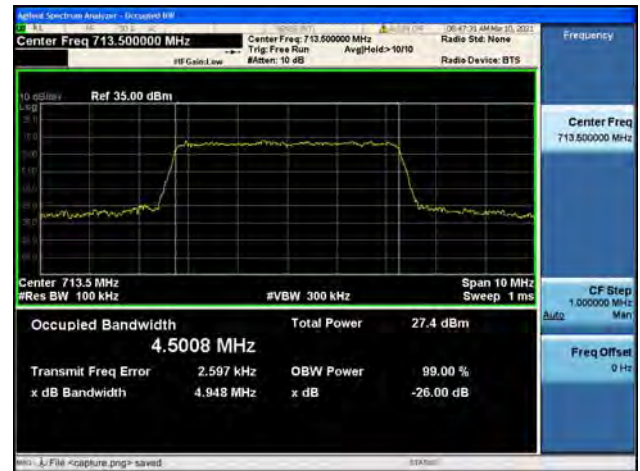




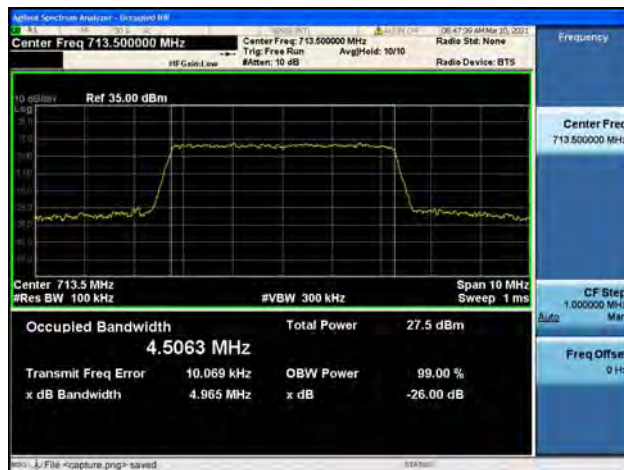
Band12 / 5MHz / High CH / QPSK



Band12 / 5MHz / High CH / 16QAM



Band12 / 5MHz / High CH / 64QAM



Band12 / 10MHz / Low CH / QPSK



Band12 / 10MHz / Low CH / 16QAM

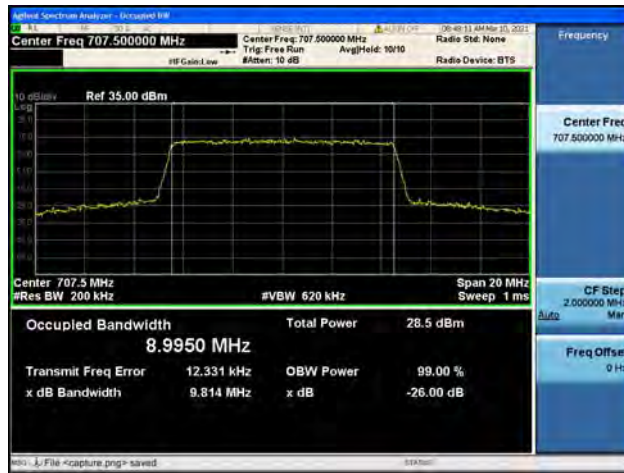


Band12 / 10MHz / Low CH / 64QAM

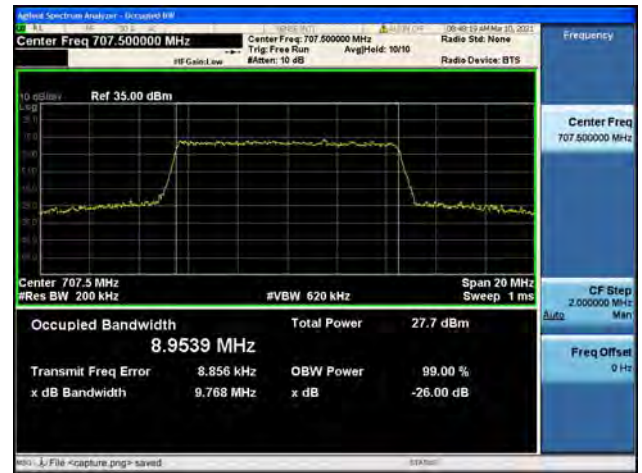




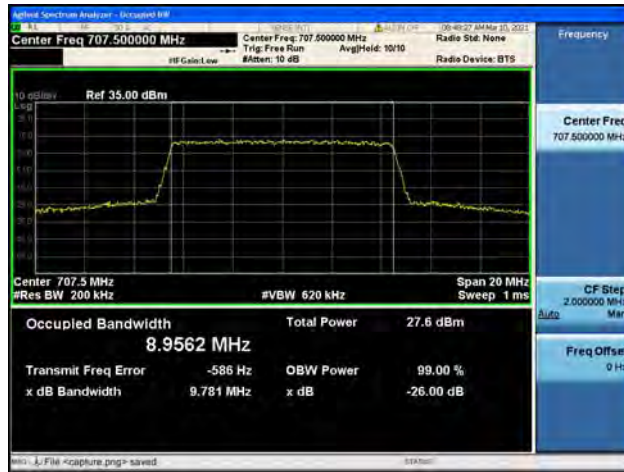
Band12 / 10MHz / Mid CH / QPSK



Band12 / 10MHz / Mid CH / 16QAM



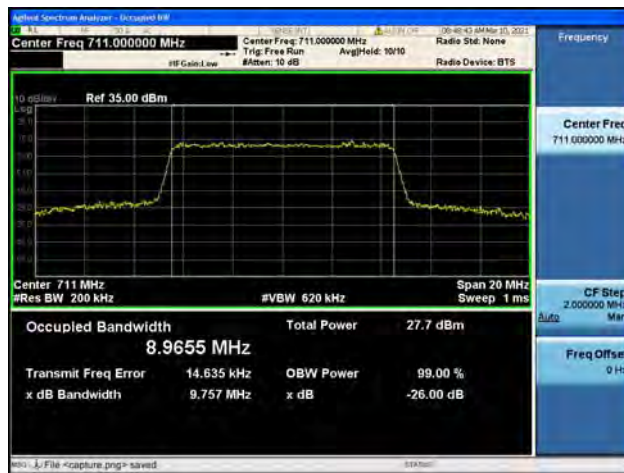
Band12 / 10MHz / Mid CH / 64QAM



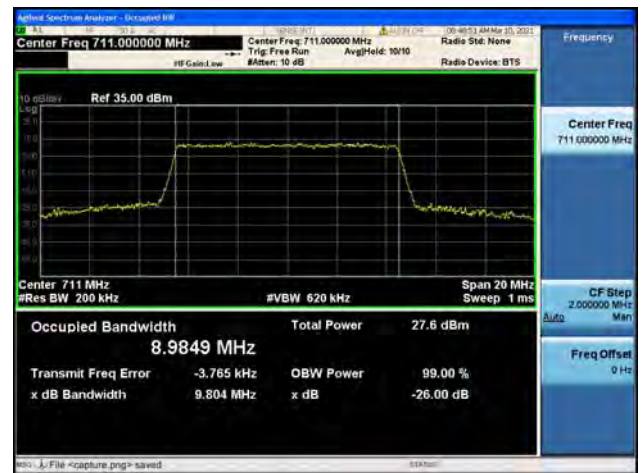
Band12 / 10MHz / High CH / QPSK



Band12 / 10MHz / High CH / 16QAM

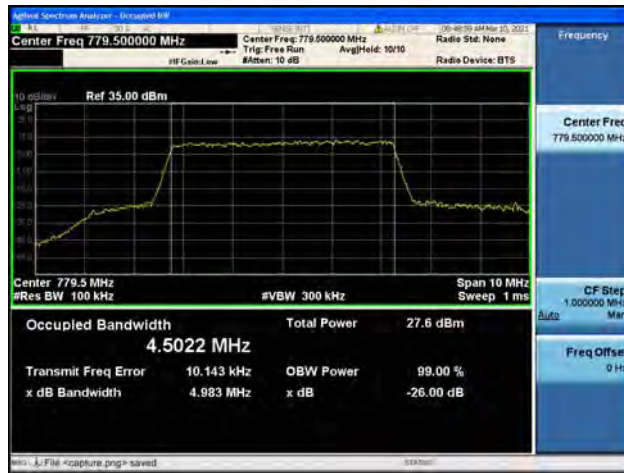


Band12 / 10MHz / High CH / 64QAM

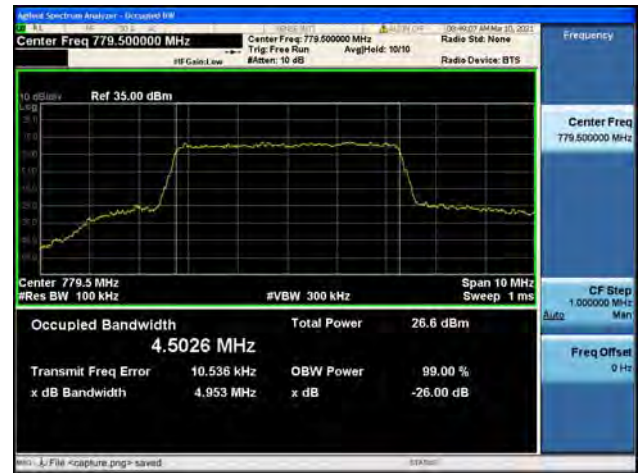




Band13 / 5MHz / Low CH / QPSK



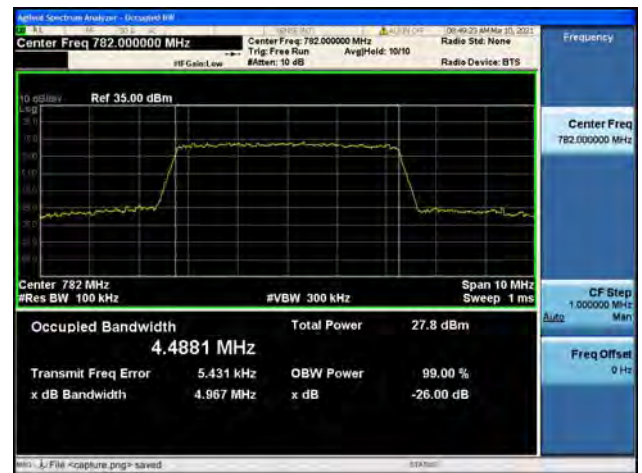
Band13 / 5MHz / Low CH / 16QAM



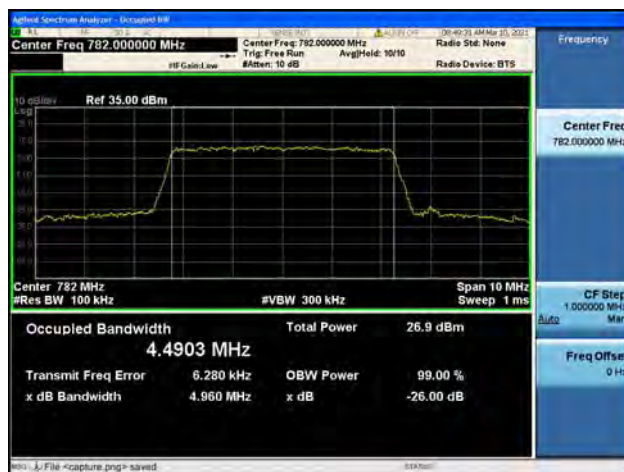
Band13 / 5MHz / Low CH / 64QAM



Band13 / 5MHz / Mid CH / QPSK



Band13 / 5MHz / Mid CH / 16QAM

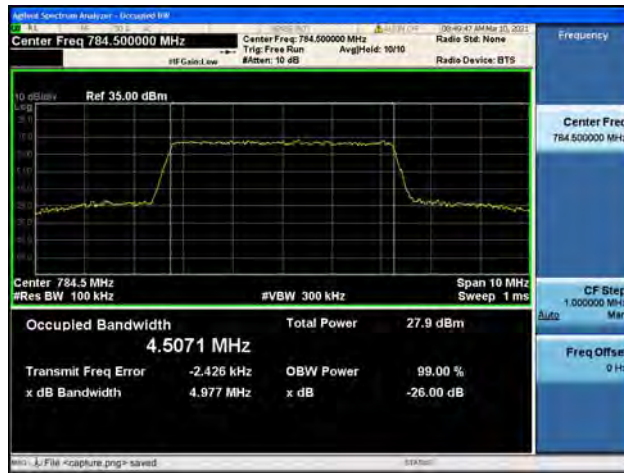


Band13 / 5MHz / Mid CH / 64QAM





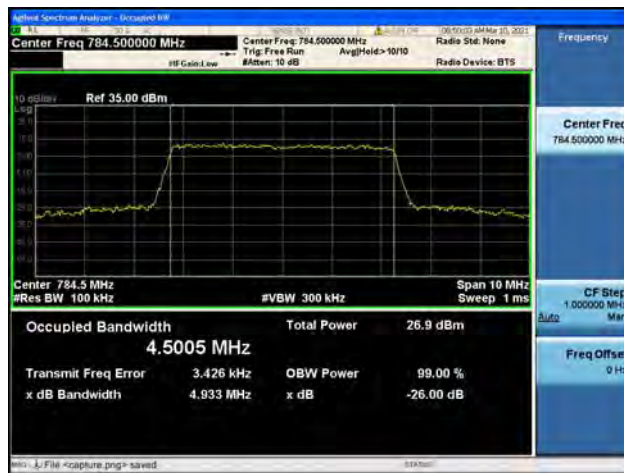
Band13 / 5MHz / High CH / QPSK



Band13 / 5MHz / High CH / 16QAM



Band13 / 5MHz / High CH / 64QAM



Band13 / 10MHz / Low CH / QPSK



Band13 / 10MHz / Low CH / 16QAM

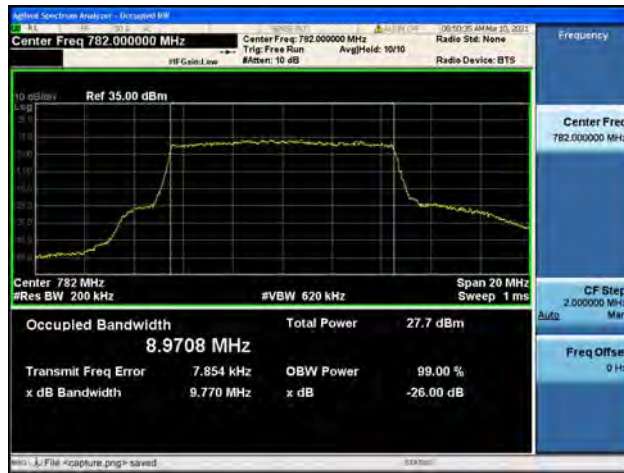


Band13 / 10MHz / Low CH / 64QAM

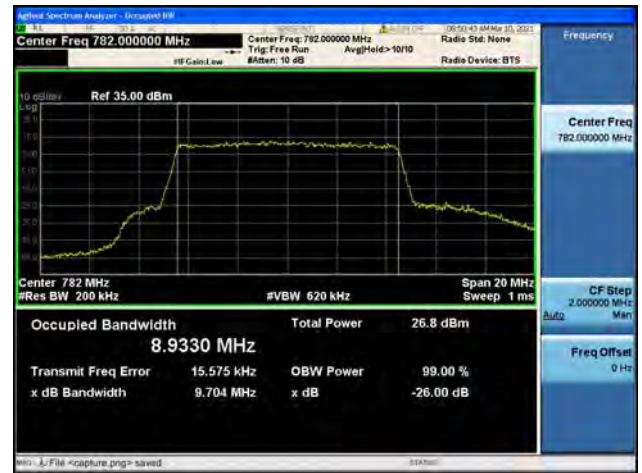




Band13 / 10MHz / Mid CH / QPSK



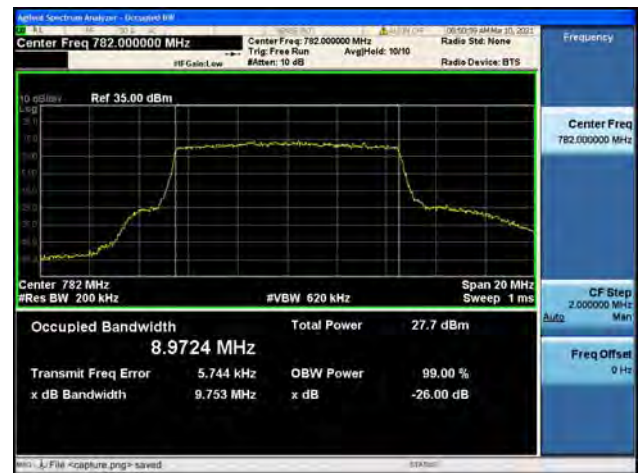
Band13 / 10MHz / Mid CH / 16QAM



Band13 / 10MHz / Mid CH / 64QAM



Band13 / 10MHz / High CH / QPSK



Band13 / 10MHz / High CH / 16QAM

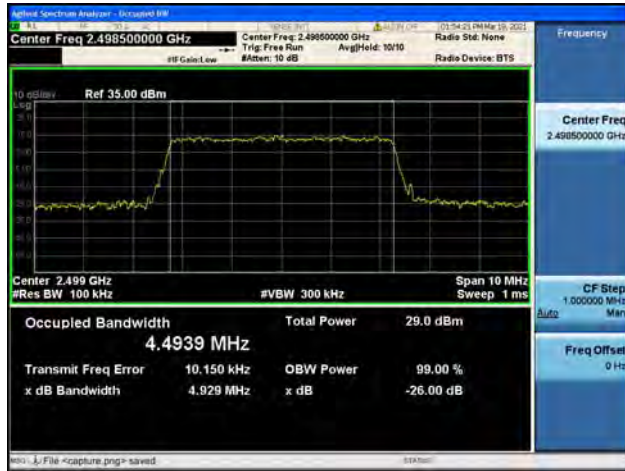


Band13 / 10MHz / High CH / 64QAM

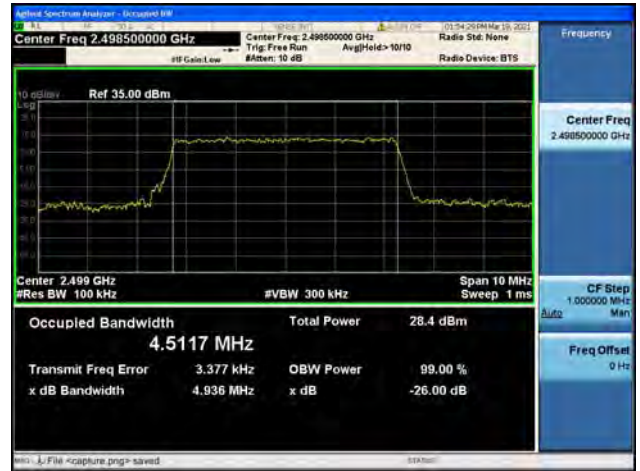




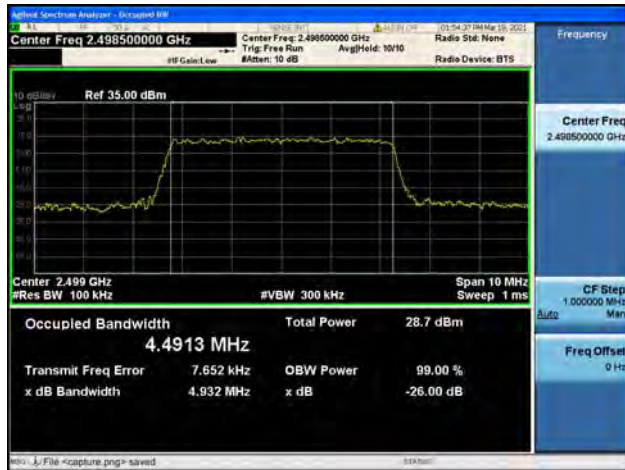
Band41 / 5MHz / Low CH / QPSK



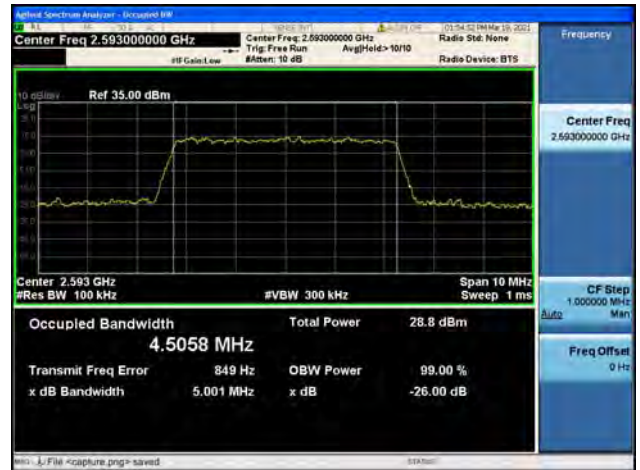
Band41 / 5MHz / Low CH / 16QAM



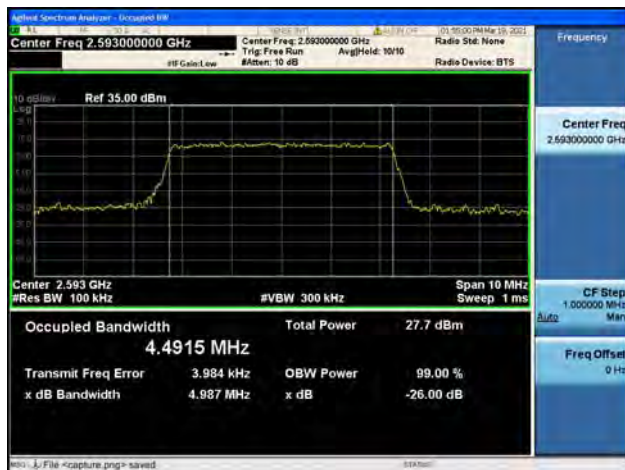
Band41 / 5MHz / Low CH / 64QAM



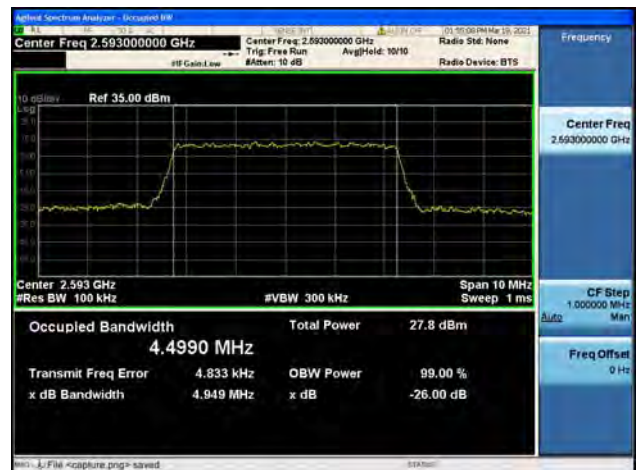
Band41 / 5MHz / Mid CH / QPSK



Band41 / 5MHz / Mid CH / 16QAM

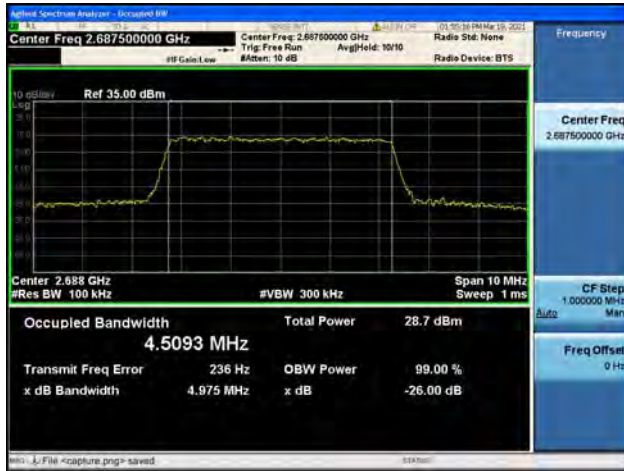


Band41 / 5MHz / Mid CH / 64QAM

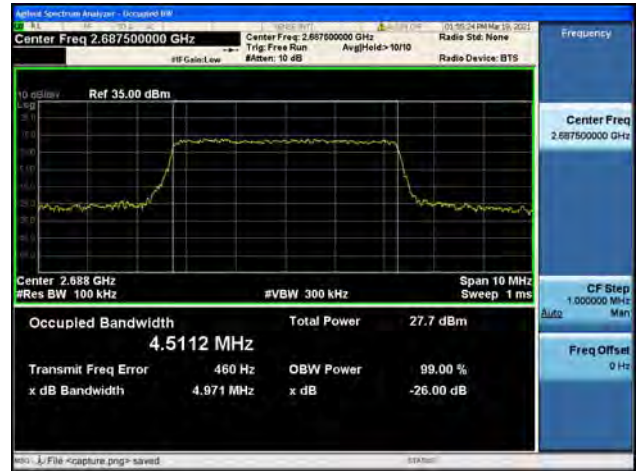




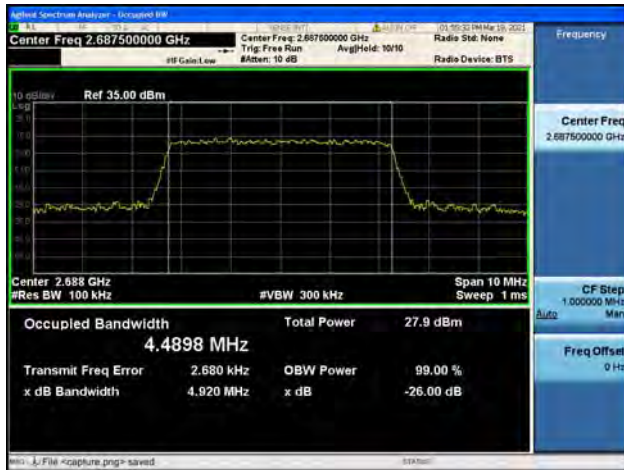
Band41 / 5MHz / High CH / QPSK



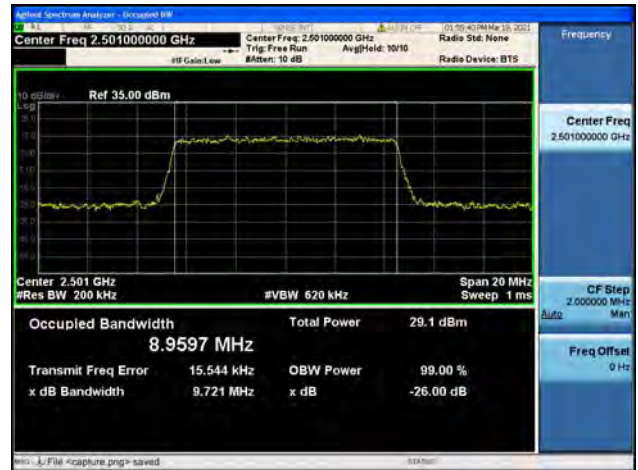
Band41 / 5MHz / High CH / 16QAM



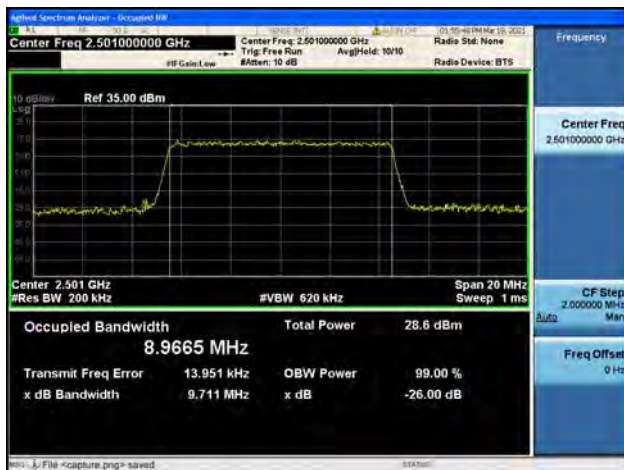
Band41 / 5MHz / High CH / 64QAM



Band41 / 10MHz / Low CH / QPSK



Band41 / 10MHz / Low CH / 16QAM

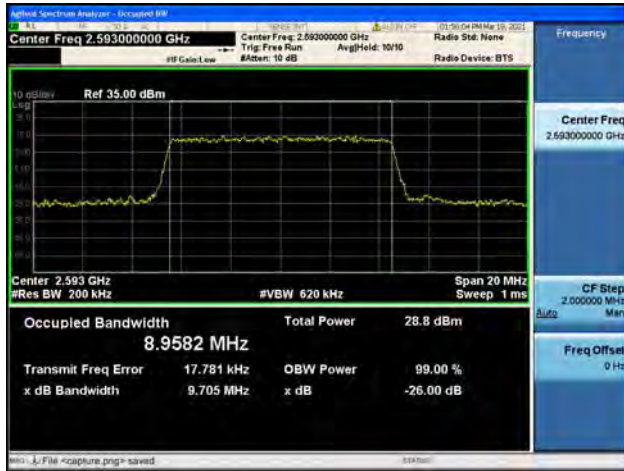


Band41 / 10MHz / Low CH / 64QAM

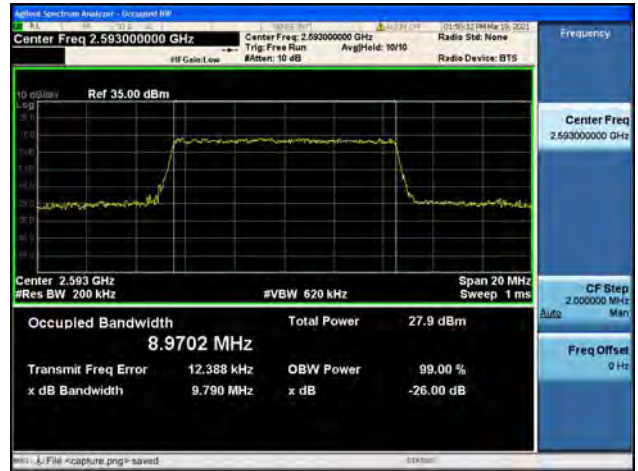




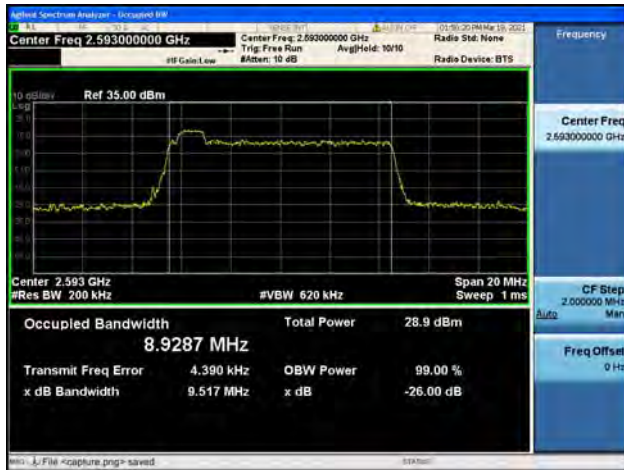
Band41 / 10MHz / Mid CH / QPSK



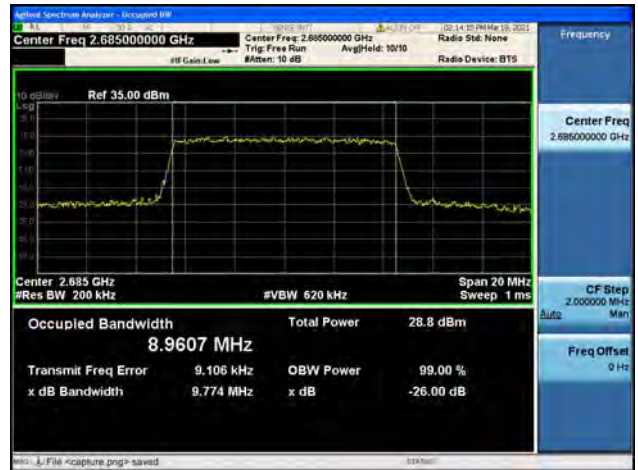
Band41 / 10MHz / Mid CH / 16QAM



Band41 / 10MHz / Mid CH / 64QAM



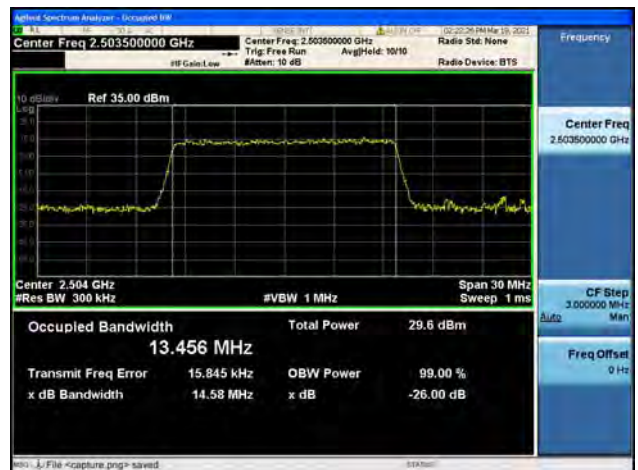
Band41 / 10MHz / High CH / QPSK



Band41 / 10MHz / High CH / 64QAM

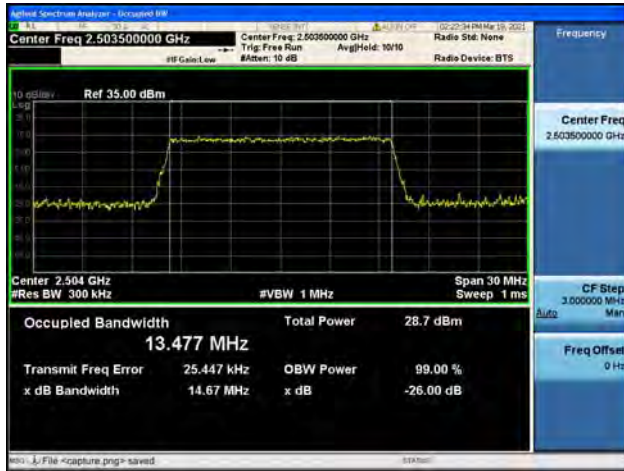


Band41 / 15MHz / Low CH / QPSK

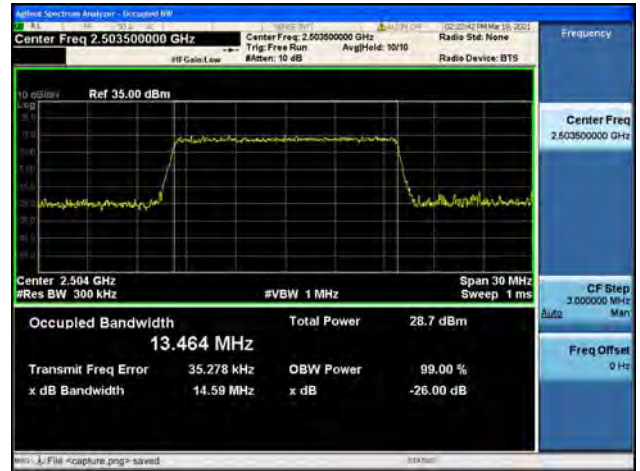




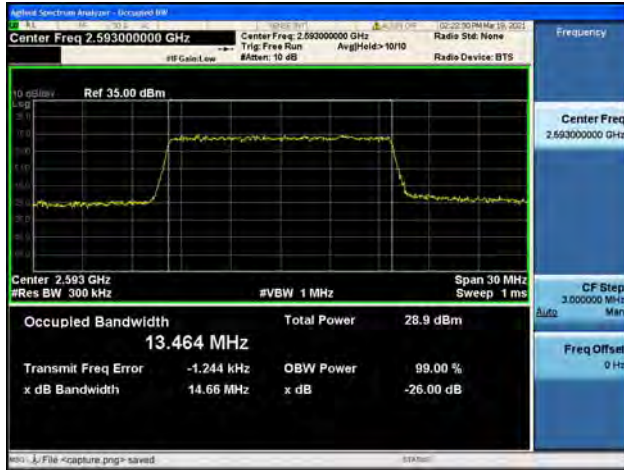
Band41 / 15MHz / Low CH / 16QAM



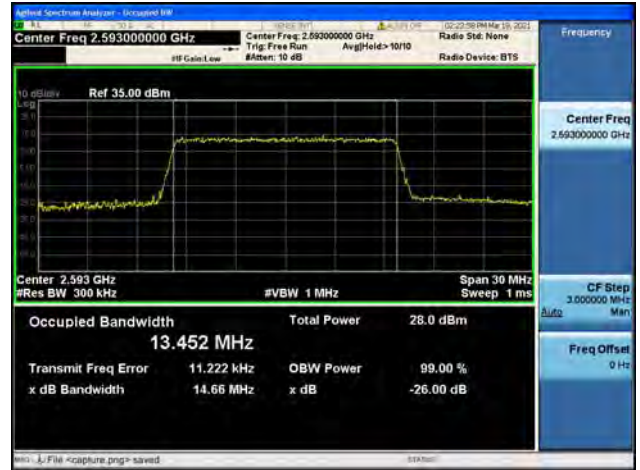
Band41 / 15MHz / Low CH / 64QAM



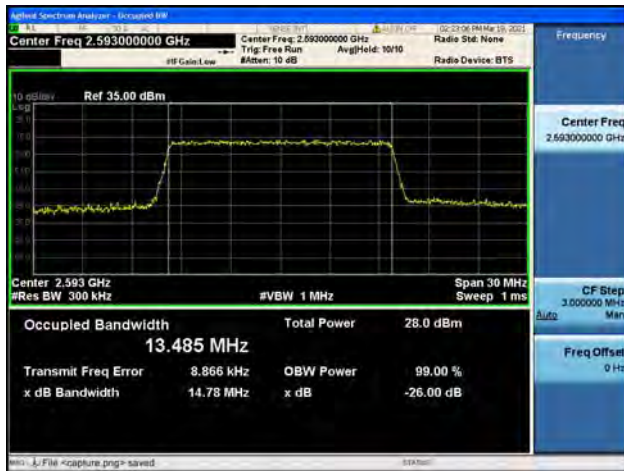
Band41 / 15MHz / Mid CH / QPSK



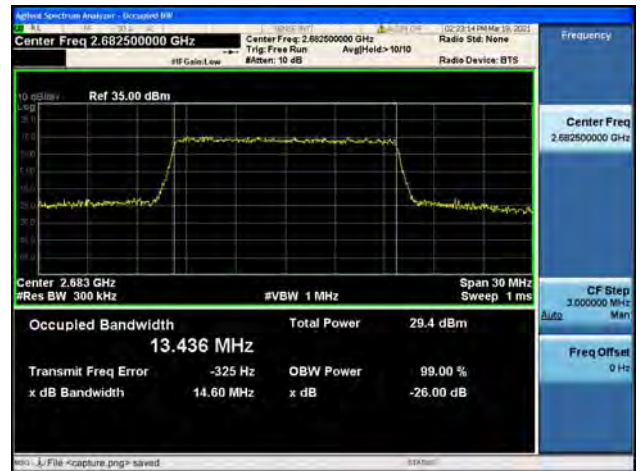
Band41 / 15MHz / Mid CH / 16QAM



Band41 / 15MHz / Mid CH / 64QAM

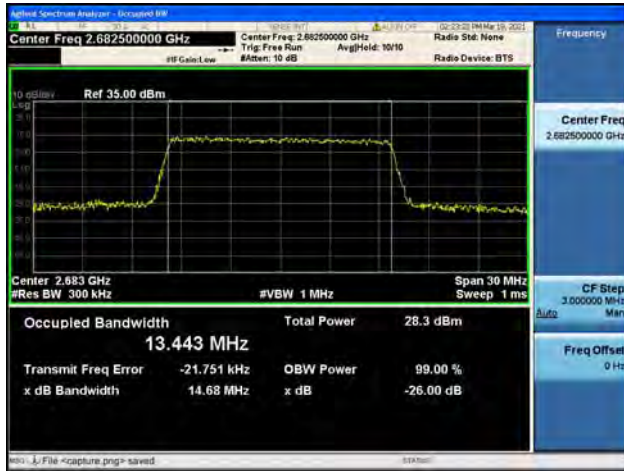


Band41 / 15MHz / High CH / QPSK





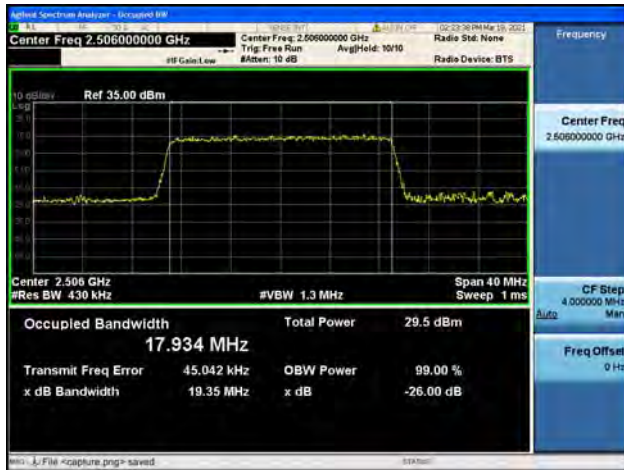
Band41 / 15MHz / High CH / 16QAM



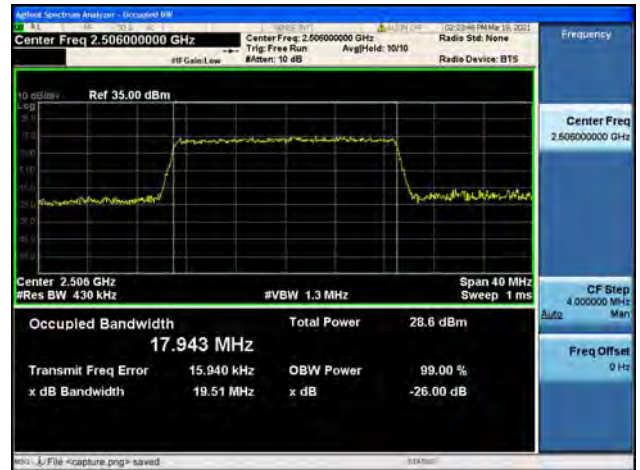
Band41 / 15MHz / High CH / 64QAM



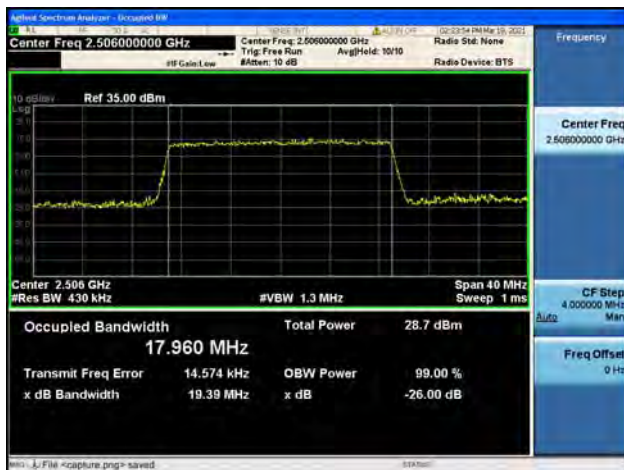
Band41 / 20MHz / Low CH / QPSK



Band41 / 20MHz / Low CH / 16QAM



Band41 / 20MHz / Low CH / 64QAM

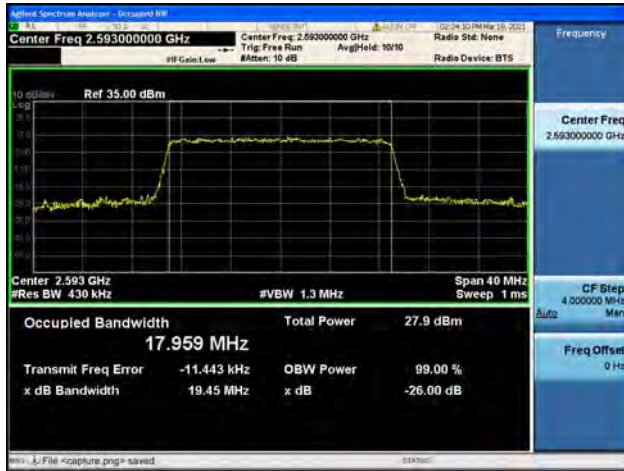


Band41 / 20MHz / Mid CH / QPSK

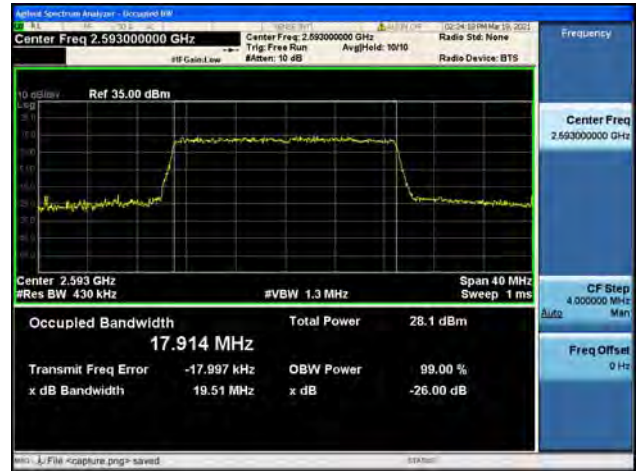




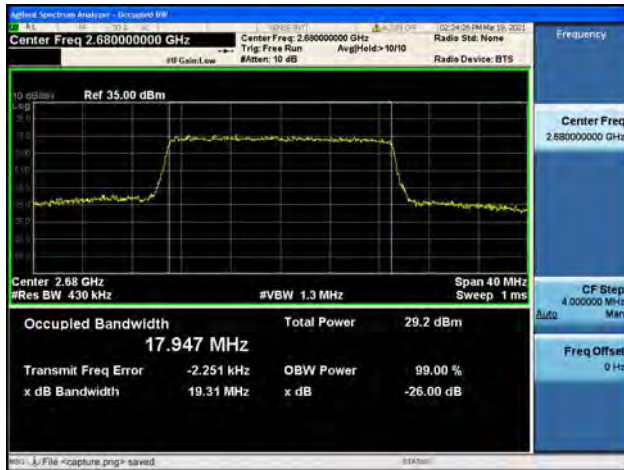
Band41 / 20MHz / Mid CH / 16QAM



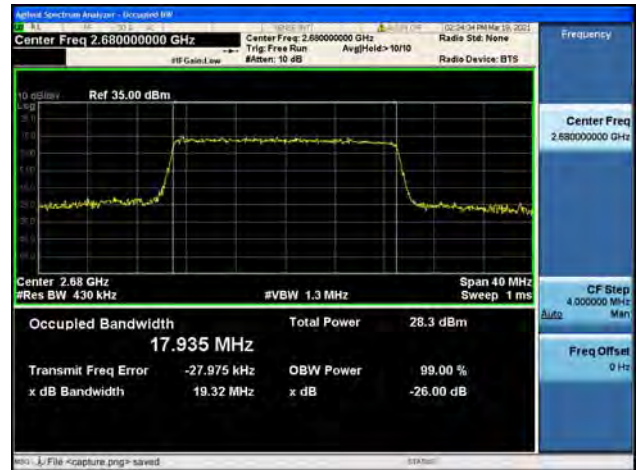
Band41 / 20MHz / Mid CH / 64QAM



Band41 / 20MHz / High CH / QPSK



Band41 / 20MHz / High CH / 16QAM

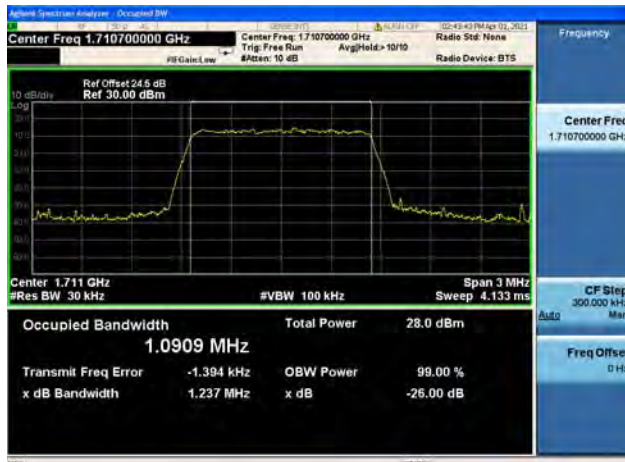


Band41 / 20MHz / High CH / 64QAM

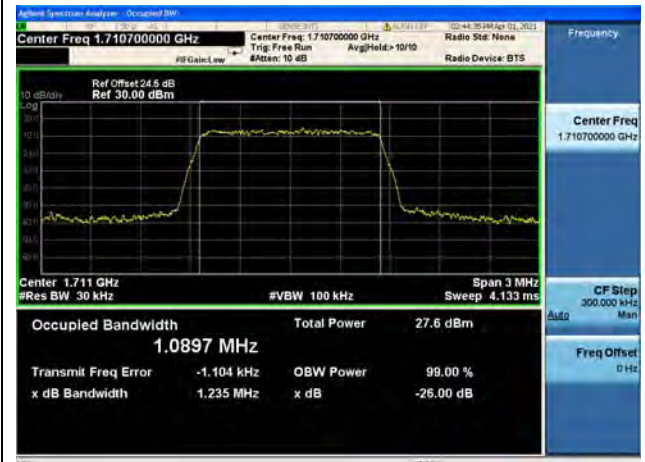




Band66 / 1.4MHz / Low CH / QPSK



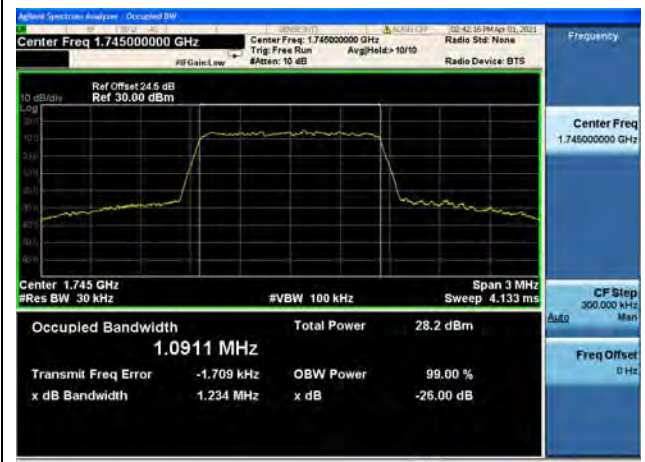
Band66 / 1.4MHz / Low CH / 16QAM



Band66 / 1.4MHz / Low CH / 64QAM



Band66 / 1.4MHz / Mid CH / QPSK



Band66 / 1.4MHz / Mid CH / 16QAM



Band66 / 1.4MHz / Mid CH / 64QAM





Band66 / 1.4MHz / High CH / QPSK



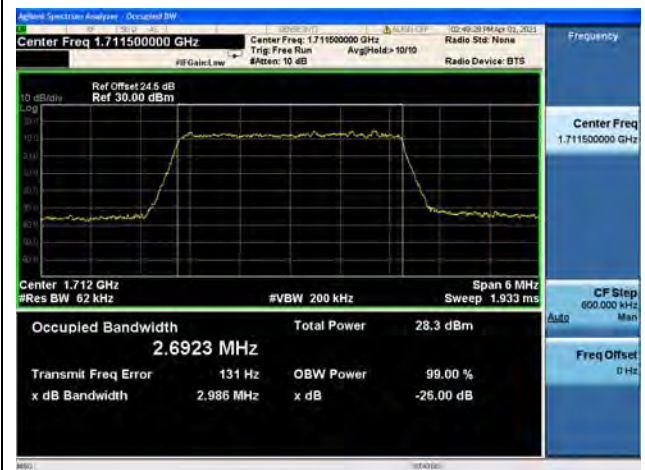
Band66 / 1.4MHz / High CH / 16QAM



Band66 / 1.4MHz / High CH / 64QAM



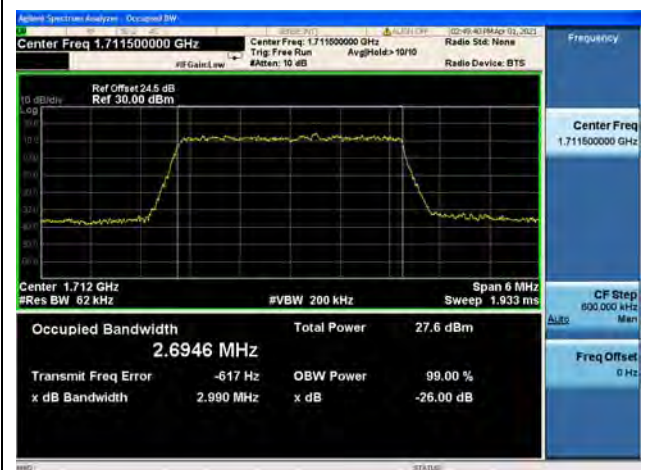
Band66 / 3MHz / Low CH / QPSK



Band66 / 3MHz / Low CH / 16QAM



Band66 / 3MHz / Low CH / 64QAM





Band66 / 3MHz / Mid CH / QPSK



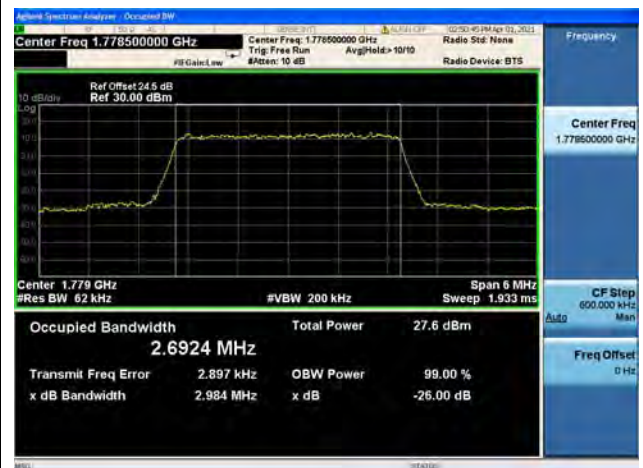
Band66 / 3MHz / Mid CH / 16QAM



Band66 / 3MHz / Mid CH / 64QAM



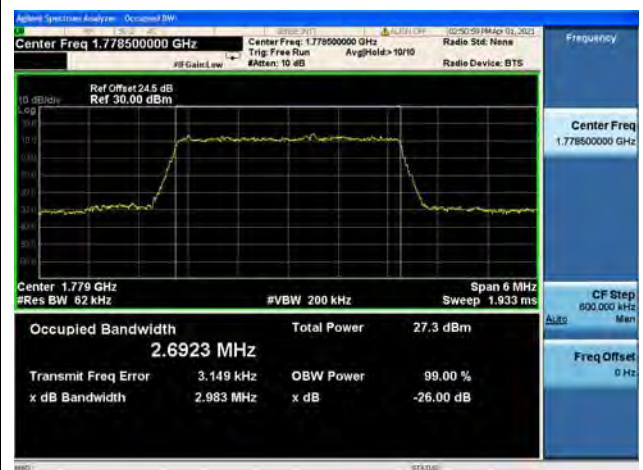
Band66 / 3MHz / High CH / QPSK



Band66 / 3MHz / High CH / 16QAM

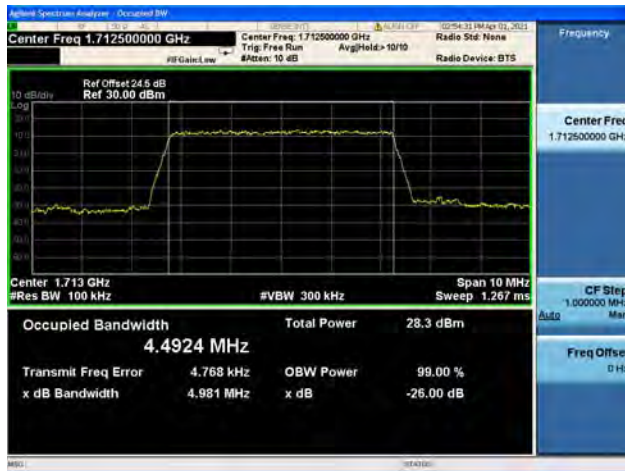


Band66 / 3MHz / High CH / 64QAM

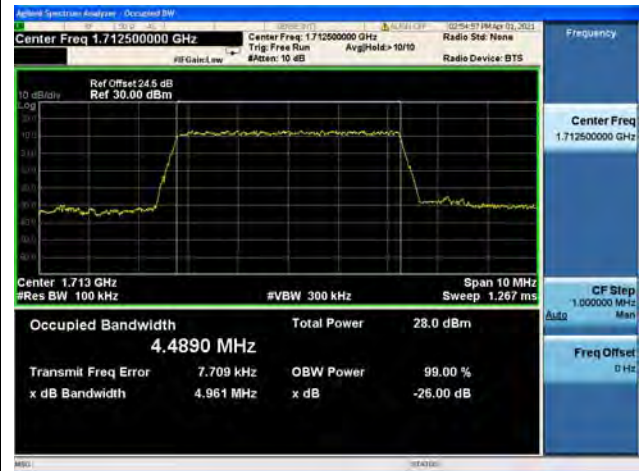




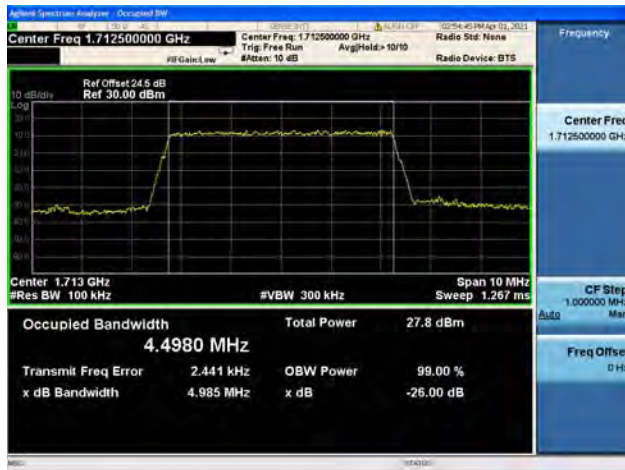
Band66 / 5MHz / Low CH / QPSK



Band66 / 5MHz / Low CH / 16QAM



Band66 / 5MHz / Low CH / 64QAM



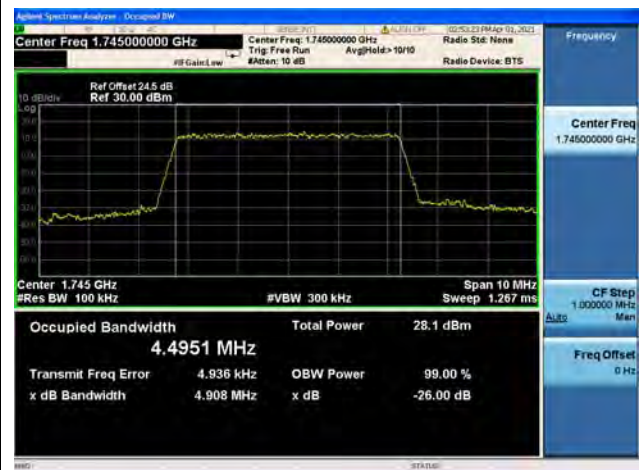
Band66 / 5MHz / Mid CH / QPSK



Band66 / 5MHz / Mid CH / 16QAM



Band66 / 5MHz / Mid CH / 64QAM





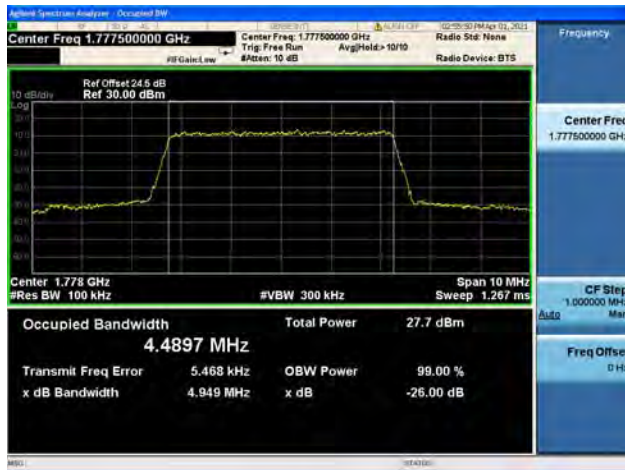
Band66 / 5MHz / High CH / QPSK



Band66 / 5MHz / High CH / 16QAM



Band66 / 5MHz / High CH / 64QAM



Band66 / 10MHz / Low CH / QPSK

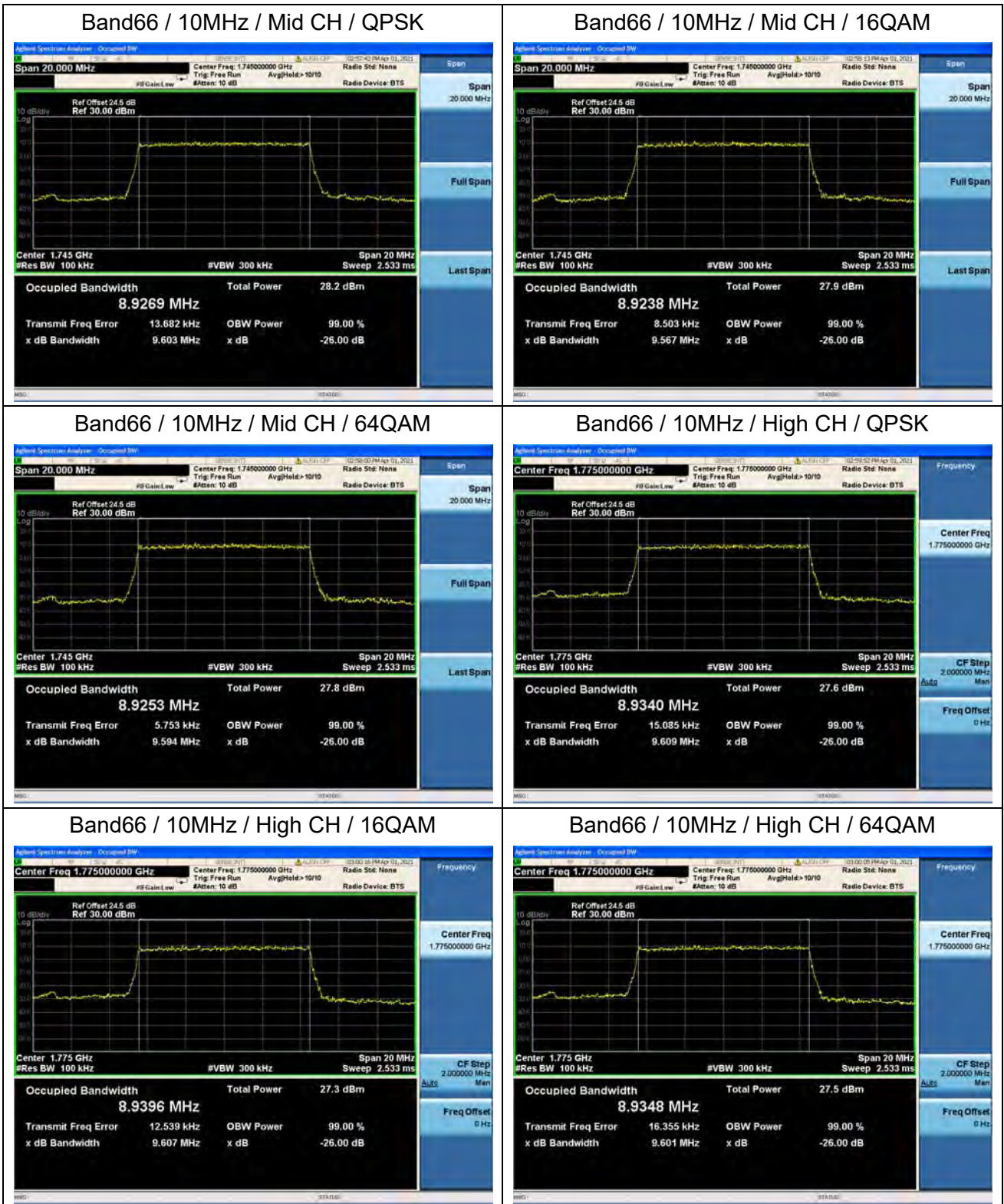


Band66 / 10MHz / Low CH / 16QAM



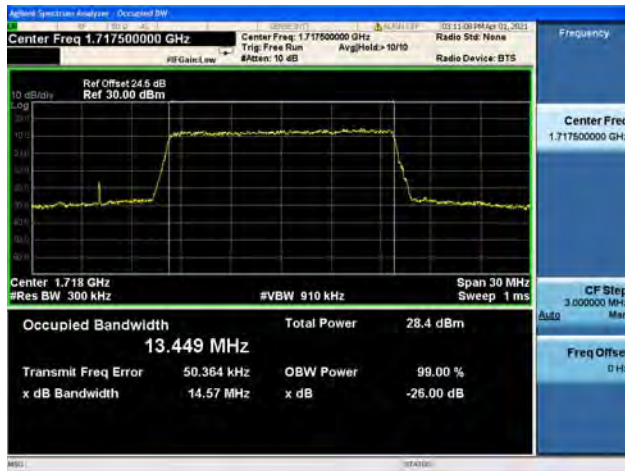
Band66 / 10MHz / Low CH / 64QAM



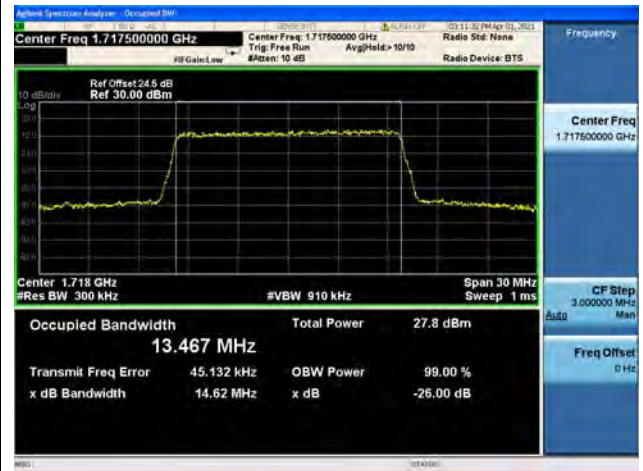




Band66 / 15MHz / Low CH / QPSK



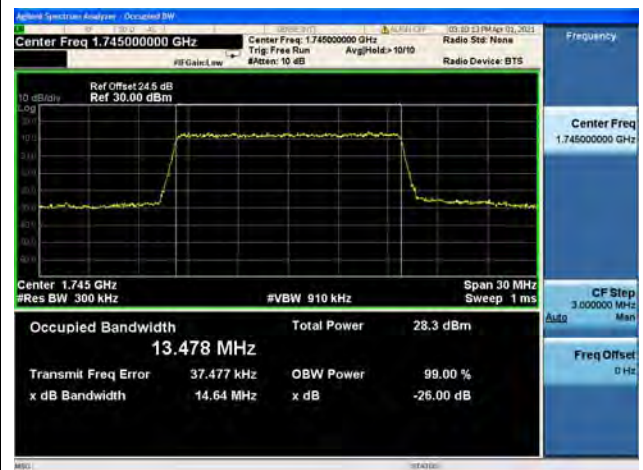
Band66 / 15MHz / Low CH / 16QAM



Band66 / 15MHz / Low CH / 64QAM



Band66 / 15MHz / Mid CH / QPSK



Band66 / 15MHz / Mid CH / 16QAM

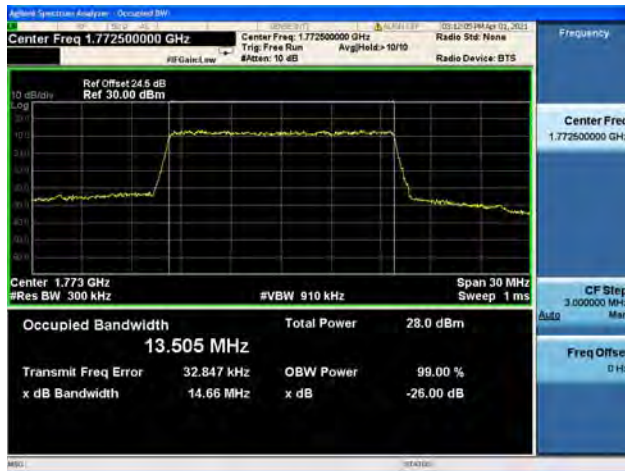


Band66 / 15MHz / Mid CH / 64QAM





Band66 / 15MHz / High CH / QPSK



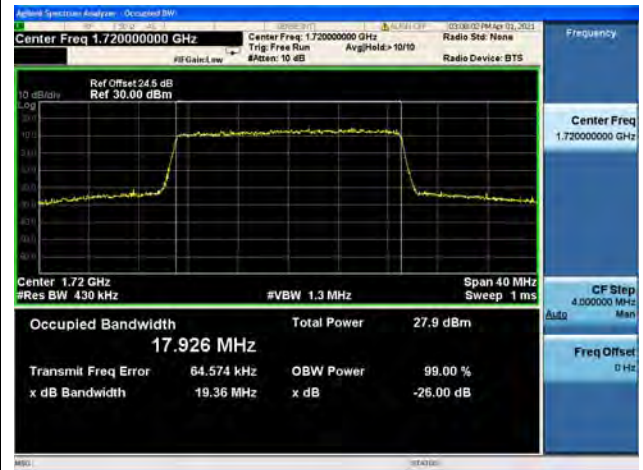
Band66 / 15MHz / High CH / 16QAM



Band66 / 15MHz / High CH / 64QAM



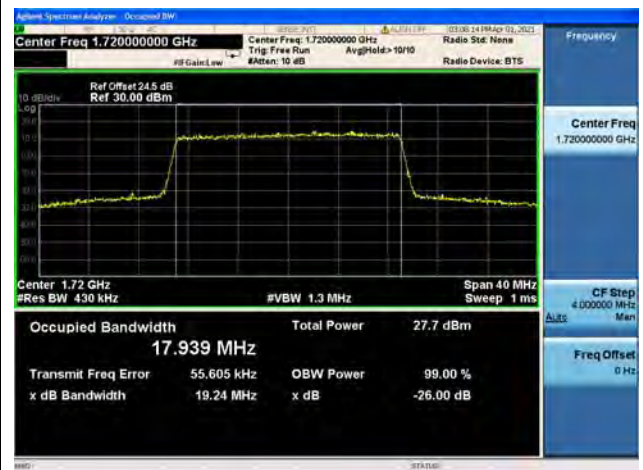
Band66 / 20MHz / Low CH / QPSK



Band66 / 20MHz / Low CH / 16QAM

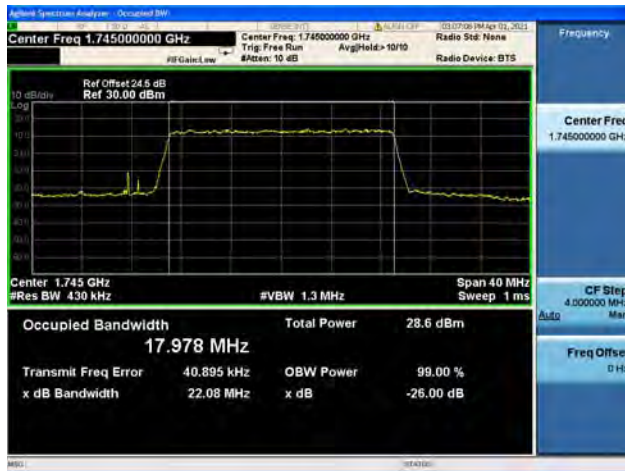


Band66 / 20MHz / Low CH / 64QAM





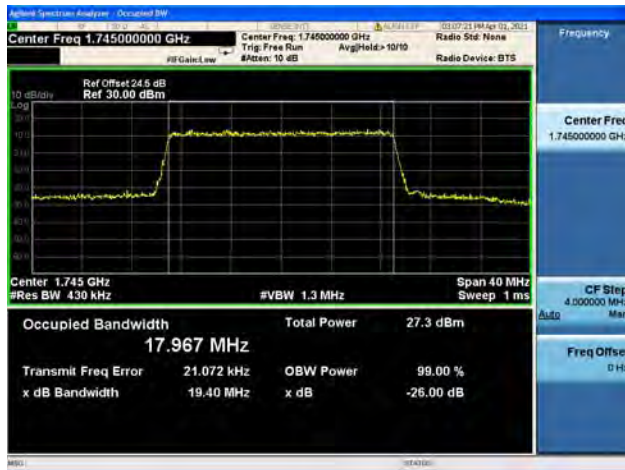
Band66 / 20MHz / Mid CH / QPSK



Band66 / 20MHz / Mid CH / 16QAM



Band66 / 20MHz / Mid CH / 64QAM



Band66 / 20MHz / High CH / QPSK



Band66 / 20MHz / High CH / 16QAM



Band66 / 20MHz / High CH / 64QAM



2.3. Frequency Stability

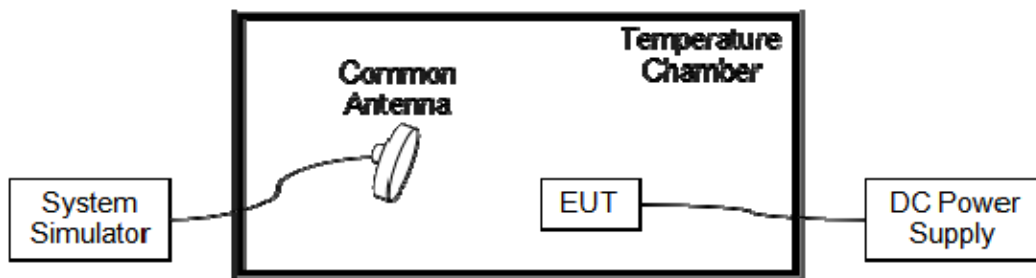
2.3.1. Requirement

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

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

Note: The operating temperature of EUT is from 0°C to 55°C , which are specified by the applicant.

2.3.2. Test Description



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

2.3.3. Test Procedure

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



2.3.4. Test Result

The nominal, highest and lowest extreme voltages are separately 3.80V, 4.20V and 3.60V, which are specified by the applicant; the normal temperature here used is 20°C.

LTE Band 2, QPSK, Channel 18900, Frequency 1880.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.80	+20(Ref)	47	0.025	PASS
100		0	51	0.027	
100		+10	13	0.007	
100		+20	-11	-0.006	
100		+30	-19	-0.010	
100		+40	-16	-0.009	
100		+50	29	0.015	
100		+55	-12	-0.006	
115	4.20	+20	27	0.014	
85	3.60	+20	63	0.034	

LTE Band 4, QPSK, Channel 20175, Frequency 1732.5MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.80	+20(Ref)	47	0.027	PASS
100		0	53	0.031	
100		+10	-22	-0.013	
100		+20	-37	-0.021	
100		+30	25	0.014	
100		+40	40	0.023	
100		+50	-63	-0.036	
100		+55	54	0.031	
115	4.20	+20	28	0.016	
85	3.60	+20	70	0.040	



LTE Band 5, QPSK, Channel 20525, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.80	+20(Ref)	41	0.049	PASS
100		0	12	0.014	
100		+10	42	0.050	
100		+20	-26	-0.031	
100		+30	31	0.037	
100		+40	40	0.048	
100		+50	-19	-0.023	
100		+55	11	0.013	
115	4.20	+20	36	0.043	
85	3.60	+20	-58	-0.069	

LTE Band 12, QPSK, Channel 23095, Frequency 707.5MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.80	+20(Ref)	-12	-0.017	PASS
100		0	-57	-0.081	
100		+10	24	0.034	
100		+20	-12	-0.017	
100		+30	25	0.035	
100		+40	-20	-0.028	
100		+50	-13	-0.018	
100		+55	25	0.035	
115	4.20	+20	-17	-0.024	
85	3.60	+20	-27	-0.038	



LTE Band 13, QPSK, Channel 23230, Frequency 782MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.80	+20(Ref)	41	0.052	PASS
100		0	69	0.088	
100		+10	76	0.097	
100		+20	48	0.061	
100		+30	-19	-0.024	
100		+40	-56	-0.072	
100		+50	31	0.040	
100		+55	-57	-0.073	
115	4.20	+20	75	0.096	
85	3.60	+20	39	0.050	

LTE Band 41, QPSK, Channel 40620, Frequency 2593MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.80	+20(Ref)	53	0.020	PASS
100		0	22	0.008	
100		+10	74	0.029	
100		+20	-48	-0.019	
100		+30	74	0.029	
100		+40	10	0.004	
100		+50	13	0.005	
100		+55	-23	-0.009	
115	4.20	+20	-20	-0.008	
85	3.60	+20	56	0.022	



LTE Band 66, QPSK, Channel 132322, Frequency 1745MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.80	+20(Ref)	16	0.009	PASS
100		0	61	0.035	
100		+10	43	0.025	
100		+20	43	0.025	
100		+30	-58	-0.033	
100		+40	31	0.018	
100		+50	28	0.016	
100		+55	71	0.041	
115	4.20	+20	-49	-0.028	
85	3.60	+20	86	0.049	

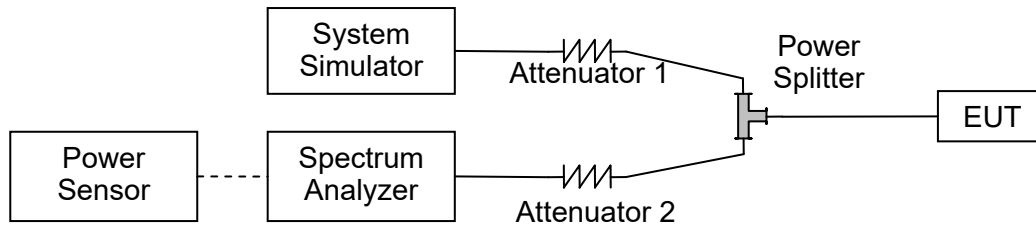
LTE Band 71, QPSK, Channel 133322, Frequency 683MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.80	+20(Ref)	32	0.047	PASS
100		0	16	0.023	
100		+10	-55	-0.081	
100		+20	-27	-0.040	
100		+30	15	0.022	
100		+40	-58	-0.085	
100		+50	63	0.092	
100		+55	70	0.102	
115	4.20	+20	58	0.085	
85	3.60	+20	-37	-0.054	

2.4. Peak to Average Ratio

2.4.1. Requirement

According to FCC section 24.232(d), 27.50(d) and 27.50(j)(4), the peak to average ratio (PAR) of the transmission may not exceed 13dB.

2.4.2. Test Description



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

2.4.3. Test Procedure

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

2.4.4. Test Result

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



LTE Band 2					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	5.53	<=13	PASS
	Low	16QAM	6.11	<=13	PASS
	Low	64QAM	6.07	<=13	PASS
	Mid	QPSK	5.62	<=13	PASS
	Mid	16QAM	6.08	<=13	PASS
	Mid	64QAM	6.08	<=13	PASS
	High	QPSK	5.47	<=13	PASS
	High	16QAM	6.1	<=13	PASS
	High	64QAM	6.05	<=13	PASS
3	Low	QPSK	5.39	<=13	PASS
	Low	16QAM	6.09	<=13	PASS
	Low	64QAM	6.02	<=13	PASS
	Mid	QPSK	5.26	<=13	PASS
	Mid	16QAM	6.18	<=13	PASS
	Mid	64QAM	6.04	<=13	PASS
	High	QPSK	5.25	<=13	PASS
	High	16QAM	6.03	<=13	PASS
	High	64QAM	5.98	<=13	PASS
5	Low	QPSK	5.27	<=13	PASS
	Low	16QAM	5.92	<=13	PASS
	Low	64QAM	5.29	<=13	PASS
	Mid	QPSK	5.29	<=13	PASS
	Mid	16QAM	5.95	<=13	PASS
	Mid	64QAM	5.97	<=13	PASS
	High	QPSK	5.31	<=13	PASS
	High	16QAM	5.94	<=13	PASS
	High	64QAM	6.0	<=13	PASS
10	Low	QPSK	5.32	<=13	PASS
	Low	16QAM	6.01	<=13	PASS
	Low	64QAM	6.0	<=13	PASS
	Mid	QPSK	5.28	<=13	PASS
	Mid	16QAM	6.0	<=13	PASS
	Mid	64QAM	6.03	<=13	PASS
	High	QPSK	5.3	<=13	PASS
	High	16QAM	6.01	<=13	PASS
	High	64QAM	6.03	<=13	PASS



15	Low	QPSK	5.17	<=13	PASS
	Low	16QAM	5.87	<=13	PASS
	Low	64QAM	5.85	<=13	PASS
	Mid	QPSK	5.25	<=13	PASS
	Mid	16QAM	5.96	<=13	PASS
	Mid	64QAM	5.91	<=13	PASS
	High	QPSK	5.32	<=13	PASS
	High	16QAM	6.0	<=13	PASS
	High	64QAM	5.98	<=13	PASS
20	Low	QPSK	5.14	<=13	PASS
	Low	16QAM	5.82	<=13	PASS
	Low	64QAM	5.83	<=13	PASS
	Mid	QPSK	5.21	<=13	PASS
	Mid	16QAM	5.9	<=13	PASS
	Mid	64QAM	5.91	<=13	PASS
	High	QPSK	5.5	<=13	PASS
	High	16QAM	6.11	<=13	PASS
	High	64QAM	6.13	<=13	PASS



LTE Band 4					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	5.26	<=13	PASS
	Low	16QAM	6.05	<=13	PASS
	Low	64QAM	6.12	<=13	PASS
	Mid	QPSK	5.64	<=13	PASS
	Mid	16QAM	6.4	<=13	PASS
	Mid	64QAM	6.31	<=13	PASS
	High	QPSK	4.53	<=13	PASS
	High	16QAM	5.69	<=13	PASS
	High	64QAM	5.65	<=13	PASS
3	Low	QPSK	5.23	<=13	PASS
	Low	16QAM	6.15	<=13	PASS
	Low	64QAM	6.18	<=13	PASS
	Mid	QPSK	5.53	<=13	PASS
	Mid	16QAM	6.37	<=13	PASS
	Mid	64QAM	6.34	<=13	PASS
	High	QPSK	4.77	<=13	PASS
	High	16QAM	5.71	<=13	PASS
	High	64QAM	5.77	<=13	PASS
5	Low	QPSK	5.23	<=13	PASS
	Low	16QAM	6.07	<=13	PASS
	Low	64QAM	6.08	<=13	PASS
	Mid	QPSK	5.46	<=13	PASS
	Mid	16QAM	6.21	<=13	PASS
	Mid	64QAM	6.25	<=13	PASS
	High	QPSK	4.87	<=13	PASS
	High	16QAM	5.79	<=13	PASS
	High	64QAM	5.8	<=13	PASS
10	Low	QPSK	5.3	<=13	PASS
	Low	16QAM	6.01	<=13	PASS
	Low	64QAM	6.16	<=13	PASS
	Mid	QPSK	5.28	<=13	PASS
	Mid	16QAM	6.03	<=13	PASS
	Mid	64QAM	6.03	<=13	PASS
	High	QPSK	5.25	<=13	PASS
	High	16QAM	6.03	<=13	PASS
	High	64QAM	6.03	<=13	PASS



15	Low	QPSK	5.33	<=13	PASS
	Low	16QAM	6.08	<=13	PASS
	Low	64QAM	6.09	<=13	PASS
	Mid	QPSK	5.27	<=13	PASS
	Mid	16QAM	6.05	<=13	PASS
	Mid	64QAM	6.06	<=13	PASS
	High	QPSK	5.31	<=13	PASS
	High	16QAM	6.05	<=13	PASS
	High	64QAM	6.03	<=13	PASS
20	Low	QPSK	5.17	<=13	PASS
	Low	16QAM	6.05	<=13	PASS
	Low	64QAM	6.04	<=13	PASS
	Mid	QPSK	5.19	<=13	PASS
	Mid	16QAM	6.06	<=13	PASS
	Mid	64QAM	6.02	<=13	PASS
	High	QPSK	5.27	<=13	PASS
	High	16QAM	6.13	<=13	PASS
	High	64QAM	6.11	<=13	PASS



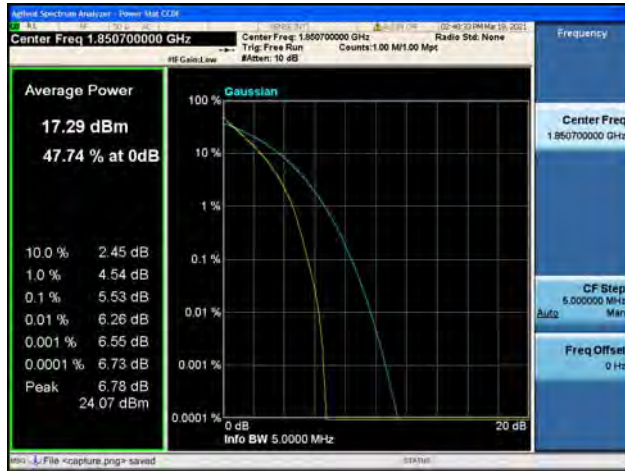
LTE Band 66					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	5.52	<=13	PASS
	Low	16QAM	6.10	<=13	PASS
	Low	64QAM	6.07	<=13	PASS
	Mid	QPSK	5.56	<=13	PASS
	Mid	16QAM	6.24	<=13	PASS
	Mid	64QAM	6.23	<=13	PASS
	High	QPSK	4.66	<=13	PASS
	High	16QAM	5.57	<=13	PASS
	High	64QAM	5.70	<=13	PASS
3	Low	QPSK	5.28	<=13	PASS
	Low	16QAM	6.10	<=13	PASS
	Low	64QAM	6.05	<=13	PASS
	Mid	QPSK	5.36	<=13	PASS
	Mid	16QAM	5.93	<=13	PASS
	Mid	64QAM	6.16	<=13	PASS
	High	QPSK	5.45	<=13	PASS
	High	16QAM	6.31	<=13	PASS
	High	64QAM	6.25	<=13	PASS
5	Low	QPSK	5.30	<=13	PASS
	Low	16QAM	6.01	<=13	PASS
	Low	64QAM	6.01	<=13	PASS
	Mid	QPSK	5.36	<=13	PASS
	Mid	16QAM	5.80	<=13	PASS
	Mid	64QAM	6.07	<=13	PASS
	High	QPSK	5.45	<=13	PASS
	High	16QAM	5.90	<=13	PASS
	High	64QAM	6.15	<=13	PASS
10	Low	QPSK	5.31	<=13	PASS
	Low	16QAM	6.06	<=13	PASS
	Low	64QAM	6.07	<=13	PASS
	Mid	QPSK	5.55	<=13	PASS
	Mid	16QAM	6.10	<=13	PASS
	Mid	64QAM	6.11	<=13	PASS
	High	QPSK	5.43	<=13	PASS
	High	16QAM	6.17	<=13	PASS
	High	64QAM	6.18	<=13	PASS



15	Low	QPSK	5.27	<=13	PASS
	Low	16QAM	5.98	<=13	PASS
	Low	64QAM	6.06	<=13	PASS
	Mid	QPSK	5.38	<=13	PASS
	Mid	16QAM	6.15	<=13	PASS
	Mid	64QAM	6.17	<=13	PASS
	High	QPSK	5.50	<=13	PASS
	High	16QAM	6.17	<=13	PASS
	High	64QAM	6.22	<=13	PASS
20	Low	QPSK	4.69	<=13	PASS
	Low	16QAM	5.61	<=13	PASS
	Low	64QAM	6.56	<=13	PASS
	Mid	QPSK	5.33	<=13	PASS
	Mid	16QAM	6.13	<=13	PASS
	Mid	64QAM	6.14	<=13	PASS
	High	QPSK	5.42	<=13	PASS
	High	16QAM	6.11	<=13	PASS
	High	64QAM	6.77	<=13	PASS



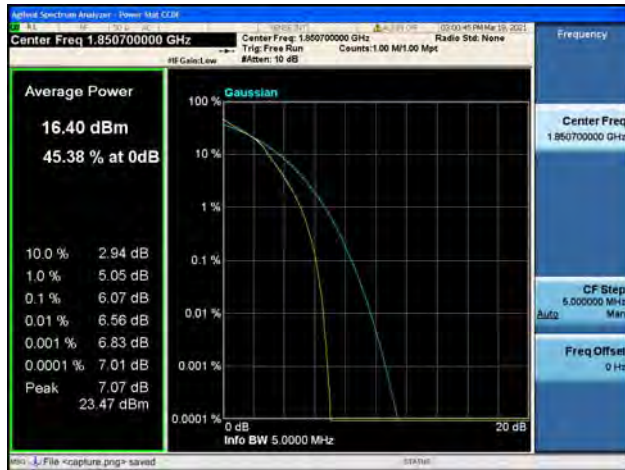
Band2 / 1.4MHz / Low CH / QPSK



Band2 / 1.4MHz / Low CH / 16QAM



Band2 / 1.4MHz / Low CH / 64QAM



Band2 / 1.4MHz / Mid CH / QPSK



Band2 / 1.4MHz / Mid CH / 16QAM



Band2 / 1.4MHz / Mid CH / 64QAM





Band2 / 1.4MHz / High CH / QPSK



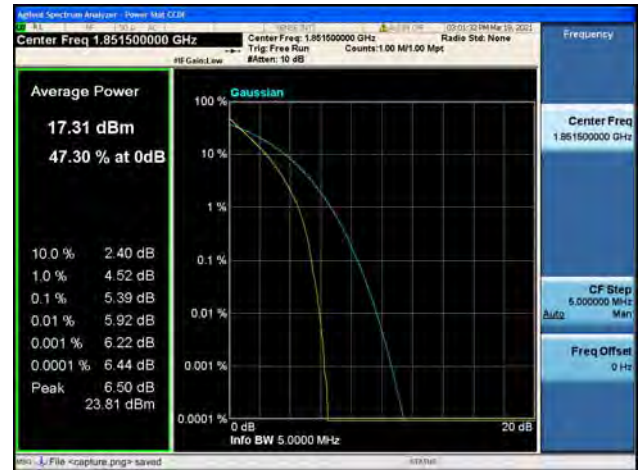
Band2 / 1.4MHz / High CH / 16QAM



Band2 / 1.4MHz / High CH / 64QAM



Band2 / 3MHz / Low CH / QPSK



Band2 / 3MHz / Low CH / 16QAM



Band2 / 3MHz / Low CH / 64QAM

