



# TEST REPORT

**APPLICANT** : BLU Products, Inc.

**PRODUCT NAME** : Smart Phone

**MODEL NAME** : J8L

**BRAND NAME** : BLU

**FCC ID** : YHLBLUJ8LUU

**STANDARD(S)** : 47 CFR Part 2  
47 CFR Part 22  
47 CFR Part 24  
47 CFR Part 27

**RECEIPT DATE** : 2023-07-13

**TEST DATE** : 2023-07-18 to 2023-07-30

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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 ..... 6
  - 1.5. Environmental Conditions ..... 10
- 2. Summary Test Results And Description ..... 11
  - 2.1. Transmitter Conducted Output Power and E.R.P./E.I.R.P. .... 11
  - 2.2. Occupied Bandwidth ..... 76
  - 2.3. Frequency Stability ..... 115
  - 2.4. Peak to Average Ratio ..... 120
  - 2.5. Conducted Spurious Emissions ..... 142
  - 2.6. Band Edge ..... 160
  - 2.7. Radiated Spurious Emissions ..... 184
- Annex A Test Uncertainty ..... 208
- Annex B Testing Laboratory Information ..... 209

Change History		
Version	Date	Reason for change
1.0	2023-08-22	First edition



# 1. Technical Information

Note: Provide by applicant.

## 1.1. Applicant and Manufacturer Information

<b>Applicant:</b>	BLU Products, Inc.
<b>Applicant Address:</b>	8600 NW 36th Street, Suite #200 Doral, FL 33166, USA
<b>Manufacturer:</b>	BLU Products, Inc.
<b>Manufacturer Address:</b>	8600 NW 36th Street, Suite #200 Doral, FL 33166, USA

## 1.2. Equipment Under Test (EUT) Description

<b>Product Name:</b>	Smart Phone	
<b>Sample No.:</b>	6#,7#	
<b>Hardware Version:</b>	H612A_MB_V1	
<b>Software Version:</b>	BLU_J0170_V13.0.G.01.00_GENERIC_28-06-2023023	
<b>Modulation Type:</b>	QPSK, 16QAM	
<b>Operation Band:</b>	Band 2 / 4 / 5 / 12 / 17 / 66 / 71	
<b>Frequency Range:</b>	Band 2	Tx: 1850MHz–1910MHz
		Rx: 1930MHz–1990MHz
	Band 4	Tx: 1710MHz–1755MHz
		Rx: 2110MHz–2155MHz
	Band 5	Tx: 824MHz–849MHz
		Rx: 869MHz–894MHz
	Band 12	Tx: 699MHz–716MHz
		Rx: 729MHz–746MHz
	Band 17	Tx: 704MHz–716MHz
		Rx: 734MHz–746MHz
	Band 66	Tx: 1710MHz –1780MHz
		Rx: 2110MHz–2200MHz
	Band 71	Tx: 663MHz–698MHz
		Rx: 617MHz–652MHz
<b>Channel Bandwidth:</b>	Band 2	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	Band 4	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	Band 5	1.4MHz, 3MHz, 5MHz, 10MHz



	Band 12	1.4MHz, 3 MHz, 5 MHz, 10MHz
	Band 17	5 MHz, 10MHz
	Band 66	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	Band 71	5MHz, 10MHz, 15MHz, 20MHz
<b>Antenna Type:</b>	PIFA Antenna	
<b>Antenna Gain:</b>	Band 2	0.65dBi
	Band 4	0.55dBi
	Band 5	0.35dBi
	Band 12	0.25dBi
	Band 17	0.25dBi
	Band 66	0.50dBi
	Band 71	0.20dBi
<b>Accessory Information:</b>	Battery	
	Brand Name:	BLU
	Model No.:	C876445200L
	Serial No.:	N/A
	Capacity:	2000mAh
	Rated Voltage:	3.7V
	Charge Limit:	4.2V
	Manufacturer:	Shenzhen Aerospace Electronic Co.,Ltd.
	AC Adapter	
	Brand Name:	BLU
	Model No.:	US-HY-1000
	Serial No.:	N/A
	Rated Output:	5.0V $\pm$ 1000mA
	Rated Input:	100-240V $\sim$ 50/60Hz, 0.3A
	Manufacturer:	Shenzhen Zhongfu core Technology Co., LTD

**Note1:** For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



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

<b>Band 2</b>		<b>Maximum E.R.P./E.I.R.P. (W)</b>		<b>Emission Designator (99%OBW)</b>	
BW(MHz)		QPSK	16QAM	QPSK	16QAM
20		0.221	0.209	18M0G7D	18M0W7D
15		0.217	0.208	13M5G7D	13M5W7D
10		0.217	0.203	9M00G7D	8M97W7D
5		0.218	0.207	4M50G7D	4M51W7D
3		0.216	0.201	2M70G7D	2M70W7D
1.4		0.214	0.200	1M10G7D	1M10W7D
<b>Band 4</b>		<b>Maximum E.R.P./E.I.R.P. (W)</b>		<b>Emission Designator (99%OBW)</b>	
BW(MHz)		QPSK	16QAM	QPSK	16QAM
20		0.229	0.199	18M0G7D	18M0W7D
15		0.222	0.195	13M5G7D	13M5W7D
10		0.224	0.193	9M00G7D	8M98W7D
5		0.222	0.191	4M51G7D	4M52W7D
3		0.223	0.192	2M70G7D	2M70W7D
1.4		0.223	0.192	1M10G7D	1M10W7D
<b>Band 5</b>		<b>Maximum E.R.P./E.I.R.P. (W)</b>		<b>Emission Designator (99%OBW)</b>	
BW(MHz)		QPSK	16QAM	QPSK	16QAM
10		0.156	0.130	9M02G7D	8M99W7D
5		0.152	0.127	4M51G7D	4M51W7D
3		0.153	0.129	2M70G7D	2M70W7D
1.4		0.153	0.127	1M10G7D	1M11W7D
<b>Band 12</b>		<b>Maximum E.R.P./E.I.R.P. (W)</b>		<b>Emission Designator (99%OBW)</b>	
BW(MHz)		QPSK	16QAM	QPSK	16QAM
10		0.151	0.126	9M00G7D	8M98W7D
5		0.149	0.125	4M51G7D	4M51W7D
3		0.148	0.124	2M71G7D	2M70W7D
1.4		0.146	0.123	1M10G7D	1M10W7D
<b>Band 17</b>		<b>Maximum E.R.P./E.I.R.P. (W)</b>		<b>Emission Designator (99%OBW)</b>	
BW(MHz)		QPSK	16QAM	QPSK	16QAM
10		0.148	0.124	9M03G7D	8M98W7D
5		0.146	0.123	4M52G7D	4M51W7D
<b>Band 66</b>		<b>Maximum E.R.P./E.I.R.P. (W)</b>		<b>Emission Designator (99%OBW)</b>	
BW(MHz)		QPSK	16QAM	QPSK	16QAM
20		0.228	0.200	17M9G7D	18M0W7D
15		0.222	0.197	13M5G7D	13M5W7D



10	0.225	0.199	8M99G7D	8M98W7D
5	0.224	0.194	4M51G7D	4M51W7D
3	0.221	0.197	2M70G7D	2M70W7D
1.4	0.223	0.195	1M10G7D	1M10W7D
<b>Band 71</b>	<b>Maximum E.R.P./E.I.R.P. (W)</b>		<b>Emission Designator (99%OBW)</b>	
BW(MHz)	QPSK	16QAM	QPSK	16QAM
20	0.147	0.118	17M9G7D	17M9W7D
15	0.146	0.117	13M5G7D	13M5W7D
10	0.146	0.115	9M01G7D	8M98W7D
5	0.144	0.118	4M52G7D	4M51W7D

## 1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 24, Part 27, Part 90 and Part 96 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



B2			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	EIRP ≤ 2 W	PASS
Peak-Average Ratio	§24.232(d)	Limit≤13 dB	PASS
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §24.238(a)(b)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)(b)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §24.235	No limit	N/A

B4 & B66			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)(4)	EIRP ≤1 W	PASS
Peak-Average Ratio	§27.50(d) (5)	Limit≤13 dB	PASS
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	PASS
Band Edges Compliance	§2.1051, §27.53(h)(1) §27.53(h)(3)(i)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)(1)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(h)(1)	≤ -13 dBm/1MHz.	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A



B5			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	ERP ≤ 7W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §22.917(a)(b)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §22.917(a)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §22.355	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §22.355	≤ ±2.5ppm	PASS

B12&B17			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(c)(10)	ERP ≤3W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §27.53(g)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A





B71			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(c)(10)	EIRP $\leq$ 3 W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	PASS
Band Edges Compliance	§2.1051, §27.53(g)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	$\leq$ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	$\leq$ -13 dBm/1MHz.	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A



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

Test Item	Test Date	Test Engineer	Result	Method Determination /Remark
Transmitter Conducted Output Power and E.R.P./E.I.R.P.	2023/07/19	Chen Hao Li Huaijie	PASS	No deviation
Occupied Bandwidth	2023/07/19- 2023/07/24	Li Huaijie	PASS	No deviation
Frequency Stability	2023/07/25	Li Huaijie	PASS	No deviation
Peak to Average Ratio	2023/07/25	Li Huaijie	PASS	No deviation
Conducted Spurious Emissions	2023/07/24	Li Huaijie	PASS	No deviation
Band Edge	2023/07/19- 2023/07/24	Li Huaijie	PASS	No deviation
Radiated Spurious Emissions	2023/07/30	Li Hanbin	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:** 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 3:** The declared of product specification for EUT presented in the report are provided by manufacturer and the test laboratory is not responsible for the accuracy of the information.

**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. Summary Test Results And Description

### 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).

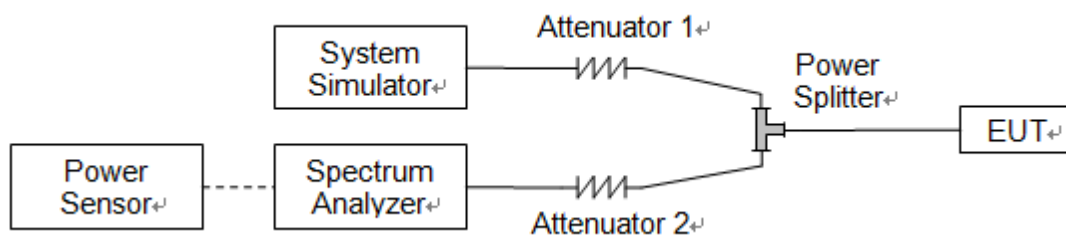
According to FCC section 24.232 (c) for LTE Band 2, Mobile and portable stations are limited to 2 watts E.I.R.P. and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

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

According to FCC section 27.50 (c)(10) for LTE Band 12/17/71, Portable stations (hand-held devices) operating in the 704-716MHz band are limited to 3watts E.R.P.

#### 2.1.2. Test Description



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



### 2.1.3. Test Procedure

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

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

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

### 2.1.4. Result

#### Conducted Output Power

LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	22.65	22.79	22.76
20	QPSK	1	49	22.59	22.74	22.71
20	QPSK	1	99	22.45	22.56	22.53
20	QPSK	50	0	22.36	22.49	22.42
20	QPSK	50	24	22.30	22.46	22.29
20	QPSK	50	50	22.20	22.31	22.18
20	QPSK	100	0	22.07	22.26	22.09
20	16QAM	1	0	22.44	22.55	22.45
20	16QAM	1	49	22.36	22.48	22.41
20	16QAM	1	99	22.22	22.36	22.28
20	16QAM	50	0	21.74	21.77	21.65
20	16QAM	50	24	21.58	21.62	21.50
20	16QAM	50	50	21.50	21.52	21.44
20	16QAM	100	0	21.37	21.39	21.34



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	22.63	22.72	22.72
15	QPSK	1	37	22.56	22.69	22.67
15	QPSK	1	74	22.44	22.52	22.49
15	QPSK	36	0	22.33	22.33	22.40
15	QPSK	36	20	22.27	22.38	22.26
15	QPSK	36	39	22.17	22.27	22.15
15	QPSK	75	0	22.03	22.21	22.07
15	16QAM	1	0	22.38	22.54	22.42
15	16QAM	1	37	22.34	22.41	22.38
15	16QAM	1	74	22.18	22.30	22.25
15	16QAM	36	0	21.69	21.65	21.62
15	16QAM	36	20	21.52	21.57	21.47
15	16QAM	36	39	21.48	21.50	21.40
15	16QAM	75	0	21.33	21.36	21.30



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	22.64	22.64	22.71
10	QPSK	1	25	22.58	22.65	22.69
10	QPSK	1	49	22.42	22.50	22.48
10	QPSK	25	0	22.33	22.35	22.39
10	QPSK	25	12	22.24	22.35	22.27
10	QPSK	25	25	22.18	22.24	22.16
10	QPSK	50	0	22.02	22.22	22.07
10	16QAM	1	0	22.38	22.40	22.43
10	16QAM	1	25	22.32	22.37	22.35
10	16QAM	1	49	22.21	22.34	22.26
10	16QAM	25	0	21.71	21.68	21.59
10	16QAM	25	12	21.54	21.54	21.44
10	16QAM	25	25	21.45	21.44	21.42
10	16QAM	50	0	21.32	21.33	21.30



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	22.59	22.73	22.71
5	QPSK	1	12	22.57	22.67	22.68
5	QPSK	1	24	22.43	22.43	22.48
5	QPSK	12	0	22.33	22.42	22.36
5	QPSK	12	7	22.26	22.41	22.25
5	QPSK	12	13	22.16	22.25	22.13
5	QPSK	25	0	22.05	22.18	22.05
5	16QAM	1	0	22.43	22.51	22.42
5	16QAM	1	12	22.30	22.36	22.38
5	16QAM	1	24	22.17	22.31	22.27
5	16QAM	12	0	21.71	21.73	21.60
5	16QAM	12	7	21.55	21.60	21.45
5	16QAM	12	13	21.47	21.47	21.43
5	16QAM	25	0	21.33	21.37	21.28



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	22.57	22.61	22.69
3	QPSK	1	8	22.55	22.66	22.66
3	QPSK	1	14	22.41	22.38	22.44
3	QPSK	8	0	22.27	22.41	22.32
3	QPSK	8	4	22.20	22.22	22.20
3	QPSK	8	7	22.12	22.10	22.12
3	QPSK	15	0	22.02	21.95	22.02
3	16QAM	1	0	22.37	22.35	22.34
3	16QAM	1	8	22.28	22.23	22.38
3	16QAM	1	14	22.16	22.29	22.21
3	16QAM	8	0	21.66	21.63	21.54
3	16QAM	8	4	21.50	21.41	21.44
3	16QAM	8	7	21.45	21.26	21.40
3	16QAM	15	0	21.29	21.23	21.27





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	22.60	22.66	22.66
1.4	QPSK	1	3	22.54	22.57	22.66
1.4	QPSK	1	5	22.38	22.37	22.46
1.4	QPSK	3	0	22.28	22.39	22.34
1.4	QPSK	3	1	22.21	22.27	22.19
1.4	QPSK	3	3	22.09	22.09	22.12
1.4	QPSK	6	0	22.01	22.03	22.02
1.4	16QAM	1	0	22.34	22.31	22.35
1.4	16QAM	1	3	22.32	22.27	22.37
1.4	16QAM	1	5	22.14	22.21	22.22
1.4	16QAM	3	0	21.65	21.61	21.54
1.4	16QAM	3	1	21.53	21.46	21.45
1.4	16QAM	3	3	21.45	21.32	21.39
1.4	16QAM	6	0	21.32	21.25	21.23



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	22.97	23.04	22.97
20	QPSK	1	49	22.87	22.88	22.89
20	QPSK	1	99	22.82	22.71	22.79
20	QPSK	50	0	22.31	22.40	22.26
20	QPSK	50	24	22.19	22.35	22.12
20	QPSK	50	50	22.15	22.19	21.97
20	QPSK	100	0	22.09	22.15	21.80
20	16QAM	1	0	22.35	22.44	22.33
20	16QAM	1	49	22.17	22.31	22.24
20	16QAM	1	99	22.14	22.26	22.17
20	16QAM	50	0	21.27	21.38	21.29
20	16QAM	50	24	21.23	21.31	21.11
20	16QAM	50	50	21.18	21.23	20.94
20	16QAM	100	0	21.07	21.12	20.88



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	22.91	22.92	22.91
15	QPSK	1	37	22.84	22.80	22.85
15	QPSK	1	74	22.78	22.57	22.78
15	QPSK	36	0	22.25	22.26	22.23
15	QPSK	36	20	22.17	22.31	22.08
15	QPSK	36	39	22.12	22.04	21.92
15	QPSK	75	0	22.06	22.04	21.77
15	16QAM	1	0	22.34	22.30	22.28
15	16QAM	1	37	22.14	22.25	22.21
15	16QAM	1	74	22.11	22.12	22.13
15	16QAM	36	0	21.24	21.22	21.26
15	16QAM	36	20	21.20	21.26	21.09
15	16QAM	36	39	21.15	21.12	20.93
15	16QAM	75	0	21.01	20.97	20.83



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	22.93	22.95	22.91
10	QPSK	1	25	22.82	22.73	22.83
10	QPSK	1	49	22.80	22.61	22.78
10	QPSK	25	0	22.28	22.26	22.20
10	QPSK	25	12	22.14	22.25	22.09
10	QPSK	25	25	22.09	22.09	21.95
10	QPSK	50	0	22.05	22.03	21.77
10	16QAM	1	0	22.31	22.28	22.31
10	16QAM	1	25	22.16	22.19	22.21
10	16QAM	1	49	22.08	22.12	22.12
10	16QAM	25	0	21.24	21.31	21.23
10	16QAM	25	12	21.21	21.26	21.09
10	16QAM	25	25	21.14	21.11	20.88
10	16QAM	50	0	21.04	20.99	20.84



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	22.89	22.92	22.87
5	QPSK	1	12	22.76	22.71	22.79
5	QPSK	1	24	22.74	22.45	22.77
5	QPSK	12	0	22.24	22.14	22.18
5	QPSK	12	7	22.08	22.15	22.05
5	QPSK	12	13	22.06	22.01	21.94
5	QPSK	25	0	22.00	21.98	21.72
5	16QAM	1	0	22.26	22.13	22.27
5	16QAM	1	12	22.15	22.14	22.19
5	16QAM	1	24	22.04	21.99	22.07
5	16QAM	12	0	21.22	21.27	21.20
5	16QAM	12	7	21.19	21.21	21.08
5	16QAM	12	13	21.10	21.09	20.86
5	16QAM	25	0	21.02	20.96	20.80



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	22.88	22.93	22.89
3	QPSK	1	8	22.76	22.61	22.80
3	QPSK	1	14	22.77	22.57	22.74
3	QPSK	8	0	22.26	22.11	22.14
3	QPSK	8	4	22.11	22.13	22.07
3	QPSK	8	7	22.04	22.00	21.92
3	QPSK	15	0	21.99	22.02	21.72
3	16QAM	1	0	22.29	22.14	22.29
3	16QAM	1	8	22.13	22.07	22.16
3	16QAM	1	14	22.07	22.05	22.10
3	16QAM	8	0	21.21	21.16	21.21
3	16QAM	8	4	21.18	21.14	21.07
3	16QAM	8	7	21.12	21.08	20.86
3	16QAM	15	0	21.00	20.87	20.80



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	22.87	22.93	22.90
1.4	QPSK	1	3	22.80	22.64	22.79
1.4	QPSK	1	5	22.77	22.49	22.76
1.4	QPSK	3	0	22.26	22.16	22.16
1.4	QPSK	3	1	22.11	22.10	22.08
1.4	QPSK	3	3	22.06	22.03	22.00
1.4	QPSK	6	0	22.01	21.98	21.74
1.4	16QAM	1	0	22.28	22.24	22.29
1.4	16QAM	1	3	22.12	22.04	22.16
1.4	16QAM	1	5	22.04	22.04	22.08
1.4	16QAM	3	0	21.20	21.28	21.21
1.4	16QAM	3	1	21.19	21.19	21.07
1.4	16QAM	3	3	21.13	21.06	21.00
1.4	16QAM	6	0	20.99	20.87	20.82



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	23.62	23.72	23.65
10	QPSK	1	25	23.45	23.61	23.57
10	QPSK	1	49	23.35	23.44	23.53
10	QPSK	25	0	22.78	22.84	22.77
10	QPSK	25	12	22.75	22.72	22.65
10	QPSK	25	25	22.59	22.55	22.62
10	QPSK	50	0	22.44	22.52	22.51
10	16QAM	1	0	22.80	22.94	22.80
10	16QAM	1	25	22.65	22.84	22.68
10	16QAM	1	49	22.58	22.69	22.53
10	16QAM	25	0	21.63	21.76	21.69
10	16QAM	25	12	21.50	21.70	21.61
10	16QAM	25	25	21.37	21.65	21.55
10	16QAM	50	0	21.21	21.61	21.40





LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	23.57	23.63	23.60
5	QPSK	1	12	23.41	23.58	23.54
5	QPSK	1	24	23.32	23.29	23.52
5	QPSK	12	0	22.75	22.73	22.72
5	QPSK	12	7	22.72	22.61	22.64
5	QPSK	12	13	22.54	22.42	22.60
5	QPSK	25	0	22.39	22.42	22.45
5	16QAM	1	0	22.76	22.83	22.76
5	16QAM	1	12	22.60	22.72	22.63
5	16QAM	1	24	22.53	22.65	22.48
5	16QAM	12	0	21.60	21.66	21.65
5	16QAM	12	7	21.47	21.55	21.57
5	16QAM	12	13	21.31	21.63	21.53
5	16QAM	25	0	21.18	21.46	21.35



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	23.60	23.65	23.59
3	QPSK	1	8	23.42	23.60	23.55
3	QPSK	1	14	23.32	23.29	23.50
3	QPSK	8	0	22.76	22.74	22.73
3	QPSK	8	4	22.70	22.57	22.61
3	QPSK	8	7	22.55	22.48	22.56
3	QPSK	15	0	22.41	22.32	22.47
3	16QAM	1	0	22.75	22.89	22.77
3	16QAM	1	8	22.64	22.77	22.63
3	16QAM	1	14	22.52	22.66	22.52
3	16QAM	8	0	21.57	21.72	21.68
3	16QAM	8	4	21.45	21.60	21.56
3	16QAM	8	7	21.34	21.61	21.53
3	16QAM	15	0	21.16	21.46	21.38



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	23.56	23.64	23.55
1.4	QPSK	1	3	23.38	23.52	23.52
1.4	QPSK	1	5	23.28	23.23	23.46
1.4	QPSK	3	0	22.72	22.66	22.70
1.4	QPSK	3	1	22.65	22.55	22.58
1.4	QPSK	3	3	22.53	22.53	22.53
1.4	QPSK	6	0	22.39	22.22	22.44
1.4	16QAM	1	0	22.71	22.85	22.75
1.4	16QAM	1	3	22.62	22.68	22.59
1.4	16QAM	1	5	22.51	22.60	22.46
1.4	16QAM	3	0	21.54	21.59	21.64
1.4	16QAM	3	1	21.54	21.58	21.54
1.4	16QAM	3	3	21.50	21.58	21.58
1.4	16QAM	6	0	21.12	21.33	21.36



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23060	23095	23130
Frequency (MHz)				704	707.5	711
10	QPSK	1	0	23.57	23.69	23.56
10	QPSK	1	25	23.45	23.60	23.46
10	QPSK	1	49	23.39	23.44	23.29
10	QPSK	25	0	22.74	22.85	22.68
10	QPSK	25	12	22.70	22.76	22.53
10	QPSK	25	25	22.58	22.63	22.41
10	QPSK	50	0	22.47	22.48	22.38
10	16QAM	1	0	22.86	22.91	22.82
10	16QAM	1	25	22.74	22.87	22.64
10	16QAM	1	49	22.57	22.74	22.48
10	16QAM	25	0	21.73	21.84	21.69
10	16QAM	25	12	21.61	21.69	21.66
10	16QAM	25	25	21.48	21.61	21.55
10	16QAM	50	0	21.42	21.47	21.40



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	23.54	23.64	23.54
5	QPSK	1	12	23.42	23.55	23.44
5	QPSK	1	24	23.36	23.36	23.27
5	QPSK	12	0	22.71	22.76	22.65
5	QPSK	12	7	22.64	22.62	22.47
5	QPSK	12	13	22.52	22.59	22.39
5	QPSK	25	0	22.46	22.47	22.33
5	16QAM	1	0	22.83	22.87	22.79
5	16QAM	1	12	22.72	22.80	22.59
5	16QAM	1	24	22.51	22.62	22.45
5	16QAM	12	0	21.71	21.76	21.66
5	16QAM	12	7	21.58	21.63	21.63
5	16QAM	12	13	21.45	21.49	21.50
5	16QAM	25	0	21.38	21.44	21.39



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5
3	QPSK	1	0	23.52	23.61	23.50
3	QPSK	1	8	23.39	23.48	23.40
3	QPSK	1	14	23.35	23.35	23.23
3	QPSK	8	0	22.69	22.71	22.67
3	QPSK	8	4	22.66	22.60	22.49
3	QPSK	8	7	22.57	22.55	22.39
3	QPSK	15	0	22.41	22.45	22.35
3	16QAM	1	0	22.84	22.77	22.81
3	16QAM	1	8	22.72	22.78	22.59
3	16QAM	1	14	22.55	22.73	22.45
3	16QAM	8	0	21.68	21.79	21.64
3	16QAM	8	4	21.57	21.54	21.63
3	16QAM	8	7	21.46	21.56	21.51
3	16QAM	15	0	21.39	21.36	21.34



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3
1.4	QPSK	1	0	23.49	23.55	23.45
1.4	QPSK	1	3	23.36	23.35	23.37
1.4	QPSK	1	5	23.30	23.21	23.21
1.4	QPSK	3	0	22.65	22.61	22.65
1.4	QPSK	3	1	22.63	22.52	22.58
1.4	QPSK	3	3	22.53	22.52	22.54
1.4	QPSK	6	0	22.38	22.31	22.31
1.4	16QAM	1	0	22.80	22.72	22.79
1.4	16QAM	1	3	22.69	22.63	22.53
1.4	16QAM	1	5	22.52	22.71	22.41
1.4	16QAM	3	0	21.62	21.66	21.62
1.4	16QAM	3	1	21.54	21.59	21.58
1.4	16QAM	3	3	21.51	21.54	21.56
1.4	16QAM	6	0	21.38	21.21	21.32



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23780	23790	23800
Frequency (MHz)				709	710	711
10	QPSK	1	0	23.52	23.61	23.50
10	QPSK	1	25	23.36	23.42	23.41
10	QPSK	1	49	23.34	23.29	23.24
10	QPSK	25	0	22.65	22.66	22.62
10	QPSK	25	12	22.68	22.57	22.47
10	QPSK	25	25	22.49	22.55	22.32
10	QPSK	50	0	22.42	22.43	22.39
10	16QAM	1	0	22.78	22.84	22.74
10	16QAM	1	25	22.70	22.80	22.56
10	16QAM	1	49	22.52	22.65	22.44
10	16QAM	25	0	21.67	21.61	21.65
10	16QAM	25	12	21.52	21.64	21.59
10	16QAM	25	25	21.44	21.40	21.48
10	16QAM	50	0	21.34	21.38	21.35





LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23755	23790	23825
Frequency (MHz)				706.5	710	713.5
5	QPSK	1	0	23.47	23.53	23.49
5	QPSK	1	12	23.35	23.39	23.38
5	QPSK	1	24	23.30	23.28	23.20
5	QPSK	12	0	22.63	22.53	22.60
5	QPSK	12	7	22.65	22.48	22.42
5	QPSK	12	13	22.48	22.52	22.29
5	QPSK	25	0	22.41	22.12	22.24
5	16QAM	1	0	22.75	22.80	22.71
5	16QAM	1	12	22.67	22.74	22.51
5	16QAM	1	24	22.49	22.58	22.39
5	16QAM	12	0	21.63	21.51	21.63
5	16QAM	12	7	21.50	21.61	21.56
5	16QAM	12	13	21.38	21.39	21.42
5	16QAM	25	0	21.29	21.24	21.29



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	23.00	23.08	22.99
20	QPSK	1	49	22.88	22.97	22.91
20	QPSK	1	99	22.71	22.84	22.77
20	QPSK	50	0	22.31	22.42	22.38
20	QPSK	50	24	22.17	22.34	22.20
20	QPSK	50	50	22.06	22.24	22.03
20	QPSK	100	0	21.90	22.13	21.93
20	16QAM	1	0	22.44	22.50	22.44
20	16QAM	1	49	22.38	22.38	22.41
20	16QAM	1	99	22.29	22.35	22.25
20	16QAM	50	0	21.35	21.39	21.35
20	16QAM	50	24	21.27	21.24	21.27
20	16QAM	50	50	21.13	21.21	21.15
20	16QAM	100	0	20.95	21.11	21.02



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	22.96	22.94	22.96
15	QPSK	1	37	22.82	22.84	22.87
15	QPSK	1	74	22.66	22.78	22.75
15	QPSK	36	0	22.26	22.36	22.34
15	QPSK	36	20	22.14	22.23	22.14
15	QPSK	36	39	22.03	22.15	21.98
15	QPSK	75	0	21.84	22.03	21.89
15	16QAM	1	0	22.43	22.45	22.41
15	16QAM	1	37	22.34	22.33	22.40
15	16QAM	1	74	22.24	22.20	22.23
15	16QAM	36	0	21.30	21.31	21.30
15	16QAM	36	20	21.26	21.19	21.24
15	16QAM	36	39	21.07	21.11	21.13
15	16QAM	75	0	20.90	21.08	20.97



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				132022	132322	132622
Frequency (MHz)				1715	1745	1775
10	QPSK	1	0	22.96	23.03	22.96
10	QPSK	1	25	22.84	22.95	22.85
10	QPSK	1	49	22.66	22.74	22.71
10	QPSK	25	0	22.26	22.35	22.34
10	QPSK	25	12	22.15	22.26	22.18
10	QPSK	25	25	22.02	22.14	22.01
10	QPSK	50	0	21.88	22.06	21.91
10	16QAM	1	0	22.41	22.49	22.40
10	16QAM	1	25	22.34	22.27	22.36
10	16QAM	1	49	22.25	22.27	22.23
10	16QAM	25	0	21.34	21.27	21.31
10	16QAM	25	12	21.23	21.12	21.21
10	16QAM	25	25	21.12	21.10	21.12
10	16QAM	50	0	20.89	21.00	21.00



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	22.93	23.00	22.92
5	QPSK	1	12	22.79	22.86	22.84
5	QPSK	1	24	22.64	22.60	22.68
5	QPSK	12	0	22.22	22.30	22.31
5	QPSK	12	7	22.10	22.12	22.12
5	QPSK	12	13	21.98	22.07	21.99
5	QPSK	25	0	21.86	21.93	21.87
5	16QAM	1	0	22.38	22.36	22.34
5	16QAM	1	12	22.30	22.12	22.33
5	16QAM	1	24	22.21	22.11	22.22
5	16QAM	12	0	21.29	21.16	21.27
5	16QAM	12	7	21.20	21.02	21.19
5	16QAM	12	13	21.06	20.99	21.10
5	16QAM	25	0	20.85	20.88	20.99



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	22.92	22.94	22.93
3	QPSK	1	8	22.82	22.81	22.79
3	QPSK	1	14	22.65	22.70	22.66
3	QPSK	8	0	22.24	22.33	22.32
3	QPSK	8	4	22.13	22.11	22.14
3	QPSK	8	7	21.99	22.01	21.96
3	QPSK	15	0	21.82	21.95	21.89
3	16QAM	1	0	22.40	22.44	22.36
3	16QAM	1	8	22.33	22.24	22.33
3	16QAM	1	14	22.19	22.22	22.18
3	16QAM	8	0	21.32	21.14	21.30
3	16QAM	8	4	21.21	21.03	21.20
3	16QAM	8	7	21.10	21.03	21.09
3	16QAM	15	0	20.85	20.90	20.97



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				131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3
1.4	QPSK	1	0	22.95	22.99	22.91
1.4	QPSK	1	3	22.80	22.93	22.80
1.4	QPSK	1	5	22.65	22.66	22.68
1.4	QPSK	3	0	22.22	22.20	22.32
1.4	QPSK	3	1	22.11	22.24	22.12
1.4	QPSK	3	3	22.01	22.03	22.00
1.4	QPSK	6	0	21.84	21.98	21.89
1.4	16QAM	1	0	22.39	22.34	22.38
1.4	16QAM	1	3	22.31	22.12	22.32
1.4	16QAM	1	5	22.24	22.19	22.19
1.4	16QAM	3	0	21.29	21.24	21.26
1.4	16QAM	3	1	21.17	21.04	21.19
1.4	16QAM	3	3	21.10	21.05	21.07
1.4	16QAM	6	0	20.87	20.84	20.99



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	23.60	23.63	23.59
20	QPSK	1	49	23.46	23.53	23.45
20	QPSK	1	99	23.33	23.42	23.41
20	QPSK	50	0	22.73	22.84	22.74
20	QPSK	50	24	22.64	22.71	22.65
20	QPSK	50	50	22.56	22.58	22.48
20	QPSK	100	0	22.41	22.44	22.43
20	16QAM	1	0	22.60	22.68	22.62
20	16QAM	1	49	22.49	22.55	22.53
20	16QAM	1	99	22.35	22.39	22.37
20	16QAM	50	0	21.81	21.85	21.75
20	16QAM	50	24	21.65	21.73	21.67
20	16QAM	50	50	21.62	21.64	21.61
20	16QAM	100	0	21.52	21.54	21.55





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)				670.5	680.5	690.5
15	QPSK	1	0	23.57	23.58	23.54
15	QPSK	1	37	23.44	23.46	23.40
15	QPSK	1	74	23.28	23.36	23.35
15	QPSK	36	0	22.69	22.77	22.69
15	QPSK	36	20	22.60	22.66	22.60
15	QPSK	36	39	22.54	22.50	22.42
15	QPSK	75	0	22.35	22.37	22.37
15	16QAM	1	0	22.54	22.64	22.60
15	16QAM	1	37	22.45	22.40	22.50
15	16QAM	1	74	22.32	22.23	22.32
15	16QAM	36	0	21.78	21.71	21.72
15	16QAM	36	20	21.63	21.63	21.64
15	16QAM	36	39	21.56	21.63	21.55
15	16QAM	75	0	21.50	21.46	21.52



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	23.58	23.59	23.53
10	QPSK	1	25	23.38	23.43	23.40
10	QPSK	1	49	23.25	23.33	23.32
10	QPSK	25	0	22.66	22.77	22.66
10	QPSK	25	12	22.53	22.62	22.56
10	QPSK	25	25	22.46	22.43	22.41
10	QPSK	50	0	22.36	22.30	22.35
10	16QAM	1	0	22.54	22.57	22.57
10	16QAM	1	25	22.44	22.33	22.49
10	16QAM	1	49	22.28	22.12	22.31
10	16QAM	25	0	21.76	21.69	21.68
10	16QAM	25	12	21.59	21.57	21.58
10	16QAM	25	25	21.57	21.52	21.55
10	16QAM	50	0	21.46	21.24	21.45



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	23.49	23.54	23.53
5	QPSK	1	12	23.38	23.44	23.37
5	QPSK	1	24	23.27	23.23	23.33
5	QPSK	12	0	22.65	22.73	22.65
5	QPSK	12	7	22.55	22.57	22.58
5	QPSK	12	13	22.47	22.37	22.42
5	QPSK	25	0	22.37	22.22	22.35
5	16QAM	1	0	22.55	22.66	22.54
5	16QAM	1	12	22.43	22.31	22.47
5	16QAM	1	24	22.30	22.20	22.27
5	16QAM	12	0	21.73	21.74	21.68
5	16QAM	12	7	21.56	21.61	21.58
5	16QAM	12	13	21.56	21.43	21.58
5	16QAM	25	0	21.43	21.35	21.47



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

LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18700		18900		19100	
Frequency (MHz)				1860		1880		1900	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	23.30	0.214	23.44	0.221	23.41	0.219
20	QPSK	1	49	23.24	0.211	23.39	0.218	23.36	0.217
20	QPSK	1	99	23.10	0.204	23.21	0.209	23.18	0.208
20	QPSK	50	0	23.01	0.200	23.14	0.206	23.07	0.203
20	QPSK	50	24	22.95	0.197	23.11	0.205	22.94	0.197
20	QPSK	50	50	22.85	0.193	22.96	0.198	22.83	0.192
20	QPSK	100	0	22.72	0.187	22.91	0.195	22.74	0.188
20	16QAM	1	0	23.09	0.204	23.20	0.209	23.10	0.204
20	16QAM	1	49	23.01	0.200	23.13	0.206	23.06	0.202
20	16QAM	1	99	22.87	0.194	23.01	0.200	22.93	0.196
20	16QAM	50	0	22.39	0.173	22.42	0.175	22.30	0.170
20	16QAM	50	24	22.23	0.167	22.27	0.169	22.15	0.164
20	16QAM	50	50	22.15	0.164	22.17	0.165	22.09	0.162
20	16QAM	100	0	22.02	0.159	22.04	0.160	21.99	0.158



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18675		18900		19125	
Frequency (MHz)				1857.5		1880		1902.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	23.28	0.213	23.37	0.217	23.37	0.217
15	QPSK	1	37	23.21	0.209	23.34	0.216	23.32	0.215
15	QPSK	1	74	23.09	0.204	23.17	0.207	23.14	0.206
15	QPSK	36	0	22.98	0.199	22.98	0.199	23.05	0.202
15	QPSK	36	20	22.92	0.196	23.03	0.201	22.91	0.195
15	QPSK	36	39	22.82	0.191	22.92	0.196	22.80	0.191
15	QPSK	75	0	22.68	0.185	22.86	0.193	22.72	0.187
15	16QAM	1	0	23.03	0.201	23.19	0.208	23.07	0.203
15	16QAM	1	37	22.99	0.199	23.06	0.202	23.03	0.201
15	16QAM	1	74	22.83	0.192	22.95	0.197	22.90	0.195
15	16QAM	36	0	22.34	0.171	22.30	0.170	22.27	0.169
15	16QAM	36	20	22.17	0.165	22.22	0.167	22.12	0.163
15	16QAM	36	39	22.13	0.163	22.15	0.164	22.05	0.160
15	16QAM	75	0	21.98	0.158	22.01	0.159	21.95	0.157



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18650		18900		19150	
Frequency (MHz)				1855		1880		1905	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	23.29	0.213	23.29	0.213	23.36	0.217
10	QPSK	1	25	23.23	0.210	23.30	0.214	23.34	0.216
10	QPSK	1	49	23.07	0.203	23.15	0.207	23.13	0.206
10	QPSK	25	0	22.98	0.199	23.00	0.200	23.04	0.201
10	QPSK	25	12	22.89	0.195	23.00	0.200	22.92	0.196
10	QPSK	25	25	22.83	0.192	22.89	0.195	22.81	0.191
10	QPSK	50	0	22.67	0.185	22.87	0.194	22.72	0.187
10	16QAM	1	0	23.03	0.201	23.05	0.202	23.08	0.203
10	16QAM	1	25	22.97	0.198	23.02	0.200	23.00	0.200
10	16QAM	1	49	22.86	0.193	22.99	0.199	22.91	0.195
10	16QAM	25	0	22.36	0.172	22.33	0.171	22.24	0.167
10	16QAM	25	12	22.19	0.166	22.19	0.166	22.09	0.162
10	16QAM	25	25	22.10	0.162	22.09	0.162	22.07	0.161
10	16QAM	50	0	21.97	0.157	21.98	0.158	21.95	0.157



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18625		18900		19175	
Frequency (MHz)				1852.5		1880		1907.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	23.24	0.211	23.38	0.218	23.36	0.217
5	QPSK	1	12	23.22	0.210	23.32	0.215	23.33	0.215
5	QPSK	1	24	23.08	0.203	23.08	0.203	23.13	0.206
5	QPSK	12	0	22.98	0.199	23.07	0.203	23.01	0.200
5	QPSK	12	7	22.91	0.195	23.06	0.202	22.90	0.195
5	QPSK	12	13	22.81	0.191	22.90	0.195	22.78	0.190
5	QPSK	25	0	22.70	0.186	22.83	0.192	22.70	0.186
5	16QAM	1	0	23.08	0.203	23.16	0.207	23.07	0.203
5	16QAM	1	12	22.95	0.197	23.01	0.200	23.03	0.201
5	16QAM	1	24	22.82	0.191	22.96	0.198	22.92	0.196
5	16QAM	12	0	22.36	0.172	22.38	0.173	22.25	0.168
5	16QAM	12	7	22.20	0.166	22.25	0.168	22.10	0.162
5	16QAM	12	13	22.12	0.163	22.12	0.163	22.08	0.161
5	16QAM	25	0	21.98	0.158	22.02	0.159	21.93	0.156



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18615		18900		19185	
Frequency (MHz)				1851.5		1880		1908.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	23.22	0.210	23.26	0.212	23.34	0.216
3	QPSK	1	8	23.20	0.209	23.31	0.214	23.31	0.214
3	QPSK	1	14	23.06	0.202	23.03	0.201	23.09	0.204
3	QPSK	8	0	22.92	0.196	23.06	0.202	22.97	0.198
3	QPSK	8	4	22.85	0.193	22.87	0.194	22.85	0.193
3	QPSK	8	7	22.77	0.189	22.75	0.188	22.77	0.189
3	QPSK	15	0	22.67	0.185	22.60	0.182	22.67	0.185
3	16QAM	1	0	23.02	0.200	23.00	0.200	22.99	0.199
3	16QAM	1	8	22.93	0.196	22.88	0.194	23.03	0.201
3	16QAM	1	14	22.81	0.191	22.94	0.197	22.86	0.193
3	16QAM	8	0	22.31	0.170	22.28	0.169	22.19	0.166
3	16QAM	8	4	22.15	0.164	22.06	0.161	22.09	0.162
3	16QAM	8	7	22.10	0.162	21.91	0.155	22.05	0.160
3	16QAM	15	0	21.94	0.156	21.88	0.154	21.92	0.156





LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18607		18900		19193	
Frequency (MHz)				1850.7		1880		1909.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	23.25	0.211	23.31	0.214	23.31	0.214
1.4	QPSK	1	3	23.19	0.208	23.22	0.210	23.31	0.214
1.4	QPSK	1	5	23.03	0.201	23.02	0.200	23.11	0.205
1.4	QPSK	3	0	22.93	0.196	23.04	0.201	22.99	0.199
1.4	QPSK	3	1	22.86	0.193	22.92	0.196	22.84	0.192
1.4	QPSK	3	3	22.74	0.188	22.74	0.188	22.77	0.189
1.4	QPSK	6	0	22.66	0.185	22.68	0.185	22.67	0.185
1.4	16QAM	1	0	22.99	0.199	22.96	0.198	23.00	0.200
1.4	16QAM	1	3	22.97	0.198	22.92	0.196	23.02	0.200
1.4	16QAM	1	5	22.79	0.190	22.86	0.193	22.87	0.194
1.4	16QAM	3	0	22.30	0.170	22.26	0.168	22.19	0.166
1.4	16QAM	3	1	22.18	0.165	22.11	0.163	22.10	0.162
1.4	16QAM	3	3	22.10	0.162	21.97	0.157	22.04	0.160
1.4	16QAM	6	0	21.97	0.157	21.90	0.155	21.88	0.154



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20050		20175		20300	
Frequency (MHz)				1720		1732.5		1745	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	23.52	0.225	23.59	0.229	23.52	0.225
20	QPSK	1	49	23.42	0.220	23.43	0.220	23.44	0.221
20	QPSK	1	99	23.37	0.217	23.26	0.212	23.34	0.216
20	QPSK	50	0	22.86	0.193	22.95	0.197	22.81	0.191
20	QPSK	50	24	22.74	0.188	22.90	0.195	22.67	0.185
20	QPSK	50	50	22.70	0.186	22.74	0.188	22.52	0.179
20	QPSK	100	0	22.64	0.184	22.70	0.186	22.35	0.172
20	16QAM	1	0	22.90	0.195	22.99	0.199	22.88	0.194
20	16QAM	1	49	22.72	0.187	22.86	0.193	22.79	0.190
20	16QAM	1	99	22.69	0.186	22.81	0.191	22.72	0.187
20	16QAM	50	0	21.82	0.152	21.93	0.156	21.84	0.153
20	16QAM	50	24	21.78	0.151	21.86	0.153	21.66	0.147
20	16QAM	50	50	21.73	0.149	21.78	0.151	21.49	0.141
20	16QAM	100	0	21.62	0.145	21.67	0.147	21.43	0.139



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20025		20175		20325	
Frequency (MHz)				1717.5		1732.5		1747.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	23.46	0.222	23.47	0.222	23.46	0.222
15	QPSK	1	37	23.39	0.218	23.35	0.216	23.40	0.219
15	QPSK	1	74	23.33	0.215	23.12	0.205	23.33	0.215
15	QPSK	36	0	22.80	0.191	22.81	0.191	22.78	0.190
15	QPSK	36	20	22.72	0.187	22.86	0.193	22.63	0.183
15	QPSK	36	39	22.67	0.185	22.59	0.182	22.47	0.177
15	QPSK	75	0	22.61	0.182	22.59	0.182	22.32	0.171
15	16QAM	1	0	22.89	0.195	22.85	0.193	22.83	0.192
15	16QAM	1	37	22.69	0.186	22.80	0.191	22.76	0.189
15	16QAM	1	74	22.66	0.185	22.67	0.185	22.68	0.185
15	16QAM	36	0	21.79	0.151	21.77	0.150	21.81	0.152
15	16QAM	36	20	21.75	0.150	21.81	0.152	21.64	0.146
15	16QAM	36	39	21.70	0.148	21.67	0.147	21.48	0.141
15	16QAM	75	0	21.56	0.143	21.52	0.142	21.38	0.137



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20000		20175		20350	
Frequency (MHz)				1715		1732.5		1750	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	23.48	0.223	23.50	0.224	23.46	0.222
10	QPSK	1	25	23.37	0.217	23.28	0.213	23.38	0.218
10	QPSK	1	49	23.35	0.216	23.16	0.207	23.33	0.215
10	QPSK	25	0	22.83	0.192	22.81	0.191	22.75	0.188
10	QPSK	25	12	22.69	0.186	22.80	0.191	22.64	0.184
10	QPSK	25	25	22.64	0.184	22.64	0.184	22.50	0.178
10	QPSK	50	0	22.60	0.182	22.58	0.181	22.32	0.171
10	16QAM	1	0	22.86	0.193	22.83	0.192	22.86	0.193
10	16QAM	1	25	22.71	0.187	22.74	0.188	22.76	0.189
10	16QAM	1	49	22.63	0.183	22.67	0.185	22.67	0.185
10	16QAM	25	0	21.79	0.151	21.86	0.153	21.78	0.151
10	16QAM	25	12	21.76	0.150	21.81	0.152	21.64	0.146
10	16QAM	25	25	21.69	0.148	21.66	0.147	21.43	0.139
10	16QAM	50	0	21.59	0.144	21.54	0.143	21.39	0.138



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19975		20175		20375	
Frequency (MHz)				1712.5		1732.5		1752.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	23.44	0.221	23.47	0.222	23.42	0.220
5	QPSK	1	12	23.31	0.214	23.26	0.212	23.34	0.216
5	QPSK	1	24	23.29	0.213	23.00	0.200	23.32	0.215
5	QPSK	12	0	22.79	0.190	22.69	0.186	22.73	0.187
5	QPSK	12	7	22.63	0.183	22.70	0.186	22.60	0.182
5	QPSK	12	13	22.61	0.182	22.56	0.180	22.49	0.177
5	QPSK	25	0	22.55	0.180	22.53	0.179	22.27	0.169
5	16QAM	1	0	22.81	0.191	22.68	0.185	22.82	0.191
5	16QAM	1	12	22.70	0.186	22.69	0.186	22.74	0.188
5	16QAM	1	24	22.59	0.182	22.54	0.179	22.62	0.183
5	16QAM	12	0	21.77	0.150	21.82	0.152	21.75	0.150
5	16QAM	12	7	21.74	0.149	21.76	0.150	21.63	0.146
5	16QAM	12	13	21.65	0.146	21.64	0.146	21.41	0.138
5	16QAM	25	0	21.57	0.144	21.51	0.142	21.35	0.136



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19965		20175		20385	
Frequency (MHz)				1711.5		1732.5		1753.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	23.43	0.220	23.48	0.223	23.44	0.221
3	QPSK	1	8	23.31	0.214	23.16	0.207	23.35	0.216
3	QPSK	1	14	23.32	0.215	23.12	0.205	23.29	0.213
3	QPSK	8	0	22.81	0.191	22.66	0.185	22.69	0.186
3	QPSK	8	4	22.66	0.185	22.68	0.185	22.62	0.183
3	QPSK	8	7	22.59	0.182	22.55	0.180	22.47	0.177
3	QPSK	15	0	22.54	0.179	22.57	0.181	22.27	0.169
3	16QAM	1	0	22.84	0.192	22.69	0.186	22.84	0.192
3	16QAM	1	8	22.68	0.185	22.62	0.183	22.71	0.187
3	16QAM	1	14	22.62	0.183	22.60	0.182	22.65	0.184
3	16QAM	8	0	21.76	0.150	21.71	0.148	21.76	0.150
3	16QAM	8	4	21.73	0.149	21.69	0.148	21.62	0.145
3	16QAM	8	7	21.67	0.147	21.63	0.146	21.41	0.138
3	16QAM	15	0	21.55	0.143	21.42	0.139	21.35	0.136



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19957		20175		20393	
Frequency (MHz)				1710.7		1732.5		1754.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	23.42	0.220	23.48	0.223	23.45	0.221
1.4	QPSK	1	3	23.35	0.216	23.19	0.208	23.34	0.216
1.4	QPSK	1	5	23.32	0.215	23.04	0.201	23.31	0.214
1.4	QPSK	3	0	22.81	0.191	22.71	0.187	22.71	0.187
1.4	QPSK	3	1	22.66	0.185	22.65	0.184	22.63	0.183
1.4	QPSK	3	3	22.61	0.182	22.58	0.181	22.55	0.180
1.4	QPSK	6	0	22.56	0.180	22.53	0.179	22.29	0.169
1.4	16QAM	1	0	22.83	0.192	22.79	0.190	22.84	0.192
1.4	16QAM	1	3	22.67	0.185	22.59	0.182	22.71	0.187
1.4	16QAM	1	5	22.59	0.182	22.59	0.182	22.63	0.183
1.4	16QAM	3	0	21.75	0.150	21.83	0.152	21.76	0.150
1.4	16QAM	3	1	21.74	0.149	21.74	0.149	21.62	0.145
1.4	16QAM	3	3	21.68	0.147	21.61	0.145	21.55	0.143
1.4	16QAM	6	0	21.54	0.143	21.42	0.139	21.37	0.137



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	21.82	0.152	21.92	0.156	21.85	0.153
10	QPSK	1	25	21.65	0.146	21.81	0.152	21.77	0.150
10	QPSK	1	49	21.55	0.143	21.64	0.146	21.73	0.149
10	QPSK	25	0	20.98	0.125	21.04	0.127	20.97	0.125
10	QPSK	25	12	20.95	0.124	20.92	0.124	20.85	0.122
10	QPSK	25	25	20.79	0.120	20.75	0.119	20.82	0.121
10	QPSK	50	0	20.64	0.116	20.72	0.118	20.71	0.118
10	16QAM	1	0	21.00	0.126	21.14	0.130	21.00	0.126
10	16QAM	1	25	20.85	0.122	21.04	0.127	20.88	0.122
10	16QAM	1	49	20.78	0.120	20.89	0.123	20.73	0.118
10	16QAM	25	0	19.83	0.096	19.96	0.099	19.89	0.097
10	16QAM	25	12	19.70	0.093	19.90	0.098	19.81	0.096
10	16QAM	25	25	19.57	0.091	19.85	0.097	19.75	0.094
10	16QAM	50	0	19.41	0.087	19.81	0.096	19.60	0.091





LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20425		20525		20625	
Frequency (MHz)				826.5		836.5		846.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	21.77	0.150	21.83	0.152	21.80	0.151
5	QPSK	1	12	21.61	0.145	21.78	0.151	21.74	0.149
5	QPSK	1	24	21.52	0.142	21.49	0.141	21.72	0.149
5	QPSK	12	0	20.95	0.124	20.93	0.124	20.92	0.124
5	QPSK	12	7	20.92	0.124	20.81	0.121	20.84	0.121
5	QPSK	12	13	20.74	0.119	20.62	0.115	20.80	0.120
5	QPSK	25	0	20.59	0.115	20.62	0.115	20.65	0.116
5	16QAM	1	0	20.96	0.125	21.03	0.127	20.96	0.125
5	16QAM	1	12	20.80	0.120	20.92	0.124	20.83	0.121
5	16QAM	1	24	20.73	0.118	20.85	0.122	20.68	0.117
5	16QAM	12	0	19.80	0.095	19.86	0.097	19.85	0.097
5	16QAM	12	7	19.67	0.093	19.75	0.094	19.77	0.095
5	16QAM	12	13	19.51	0.089	19.83	0.096	19.73	0.094
5	16QAM	25	0	19.38	0.087	19.66	0.092	19.55	0.090



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	21.80	0.151	21.85	0.153	21.79	0.151
3	QPSK	1	8	21.62	0.145	21.80	0.151	21.75	0.150
3	QPSK	1	14	21.52	0.142	21.49	0.141	21.70	0.148
3	QPSK	8	0	20.96	0.125	20.94	0.124	20.93	0.124
3	QPSK	8	4	20.90	0.123	20.77	0.119	20.81	0.121
3	QPSK	8	7	20.75	0.119	20.68	0.117	20.76	0.119
3	QPSK	15	0	20.61	0.115	20.52	0.113	20.67	0.117
3	16QAM	1	0	20.95	0.124	21.09	0.129	20.97	0.125
3	16QAM	1	8	20.84	0.121	20.97	0.125	20.83	0.121
3	16QAM	1	14	20.72	0.118	20.86	0.122	20.72	0.118
3	16QAM	8	0	19.77	0.095	19.92	0.098	19.88	0.097
3	16QAM	8	4	19.65	0.092	19.80	0.095	19.76	0.095
3	16QAM	8	7	19.54	0.090	19.81	0.096	19.73	0.094
3	16QAM	15	0	19.36	0.086	19.66	0.092	19.58	0.091



LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20407		20525		20643	
Frequency (MHz)				824.7		836.5		848.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	21.76	0.150	21.84	0.153	21.75	0.150
1.4	QPSK	1	3	21.58	0.144	21.72	0.149	21.72	0.149
1.4	QPSK	1	5	21.48	0.141	21.43	0.139	21.66	0.147
1.4	QPSK	3	0	20.92	0.124	20.86	0.122	20.90	0.123
1.4	QPSK	3	1	20.85	0.122	20.75	0.119	20.78	0.120
1.4	QPSK	3	3	20.73	0.118	20.73	0.118	20.73	0.118
1.4	QPSK	6	0	20.59	0.115	20.42	0.110	20.64	0.116
1.4	16QAM	1	0	20.91	0.123	21.05	0.127	20.95	0.124
1.4	16QAM	1	3	20.82	0.121	20.88	0.122	20.79	0.120
1.4	16QAM	1	5	20.71	0.118	20.80	0.120	20.66	0.116
1.4	16QAM	3	0	19.74	0.094	19.79	0.095	19.84	0.096
1.4	16QAM	3	1	19.74	0.094	19.78	0.095	19.74	0.094
1.4	16QAM	3	3	19.70	0.093	19.78	0.095	19.78	0.095
1.4	16QAM	6	0	19.32	0.086	19.53	0.090	19.56	0.090



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	21.67	0.147	21.79	0.151	21.66	0.147
10	QPSK	1	25	21.55	0.143	21.70	0.148	21.56	0.143
10	QPSK	1	49	21.49	0.141	21.54	0.143	21.39	0.138
10	QPSK	25	0	20.84	0.121	20.95	0.124	20.78	0.120
10	QPSK	25	12	20.80	0.120	20.86	0.122	20.63	0.116
10	QPSK	25	25	20.68	0.117	20.73	0.118	20.51	0.112
10	QPSK	50	0	20.57	0.114	20.58	0.114	20.48	0.112
10	16QAM	1	0	20.96	0.125	21.01	0.126	20.92	0.124
10	16QAM	1	25	20.84	0.121	20.97	0.125	20.74	0.119
10	16QAM	1	49	20.67	0.117	20.84	0.121	20.58	0.114
10	16QAM	25	0	19.83	0.096	19.94	0.099	19.79	0.095
10	16QAM	25	12	19.71	0.094	19.79	0.095	19.76	0.095
10	16QAM	25	25	19.58	0.091	19.71	0.094	19.65	0.092
10	16QAM	50	0	19.52	0.090	19.57	0.091	19.50	0.089



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	21.64	0.146	21.74	0.149	21.64	0.146
5	QPSK	1	12	21.52	0.142	21.65	0.146	21.54	0.143
5	QPSK	1	24	21.46	0.140	21.46	0.140	21.37	0.137
5	QPSK	12	0	20.81	0.121	20.86	0.122	20.75	0.119
5	QPSK	12	7	20.74	0.119	20.72	0.118	20.57	0.114
5	QPSK	12	13	20.62	0.115	20.69	0.117	20.49	0.112
5	QPSK	25	0	20.56	0.114	20.57	0.114	20.43	0.110
5	16QAM	1	0	20.93	0.124	20.97	0.125	20.89	0.123
5	16QAM	1	12	20.82	0.121	20.90	0.123	20.69	0.117
5	16QAM	1	24	20.61	0.115	20.72	0.118	20.55	0.114
5	16QAM	12	0	19.81	0.096	19.86	0.097	19.76	0.095
5	16QAM	12	7	19.68	0.093	19.73	0.094	19.73	0.094
5	16QAM	12	13	19.55	0.090	19.59	0.091	19.60	0.091
5	16QAM	25	0	19.48	0.089	19.54	0.090	19.49	0.089



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	21.62	0.145	21.71	0.148	21.60	0.145
3	QPSK	1	8	21.49	0.141	21.58	0.144	21.50	0.141
3	QPSK	1	14	21.45	0.140	21.45	0.140	21.33	0.136
3	QPSK	8	0	20.79	0.120	20.81	0.121	20.77	0.119
3	QPSK	8	4	20.76	0.119	20.70	0.117	20.59	0.115
3	QPSK	8	7	20.67	0.117	20.65	0.116	20.49	0.112
3	QPSK	15	0	20.51	0.112	20.55	0.114	20.45	0.111
3	16QAM	1	0	20.94	0.124	20.87	0.122	20.91	0.123
3	16QAM	1	8	20.82	0.121	20.88	0.122	20.69	0.117
3	16QAM	1	14	20.65	0.116	20.83	0.121	20.55	0.114
3	16QAM	8	0	19.78	0.095	19.89	0.097	19.74	0.094
3	16QAM	8	4	19.67	0.093	19.64	0.092	19.73	0.094
3	16QAM	8	7	19.56	0.090	19.66	0.092	19.61	0.091
3	16QAM	15	0	19.49	0.089	19.46	0.088	19.44	0.088



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	21.59	0.144	21.65	0.146	21.55	0.143
1.4	QPSK	1	3	21.46	0.140	21.45	0.140	21.47	0.140
1.4	QPSK	1	5	21.40	0.138	21.31	0.135	21.31	0.135
1.4	QPSK	3	0	20.75	0.119	20.71	0.118	20.75	0.119
1.4	QPSK	3	1	20.73	0.118	20.62	0.115	20.68	0.117
1.4	QPSK	3	3	20.63	0.116	20.62	0.115	20.64	0.116
1.4	QPSK	6	0	20.48	0.112	20.41	0.110	20.41	0.110
1.4	16QAM	1	0	20.90	0.123	20.82	0.121	20.89	0.123
1.4	16QAM	1	3	20.79	0.120	20.73	0.118	20.63	0.116
1.4	16QAM	1	5	20.62	0.115	20.81	0.121	20.51	0.112
1.4	16QAM	3	0	19.72	0.094	19.76	0.095	19.72	0.094
1.4	16QAM	3	1	19.64	0.092	19.69	0.093	19.68	0.093
1.4	16QAM	3	3	19.61	0.091	19.64	0.092	19.66	0.092
1.4	16QAM	6	0	19.48	0.089	19.31	0.085	19.42	0.087



LTE Band 17				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23780		23790		23800	
Frequency (MHz)				709		710		711	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	21.62	0.145	21.71	0.148	21.60	0.145
10	QPSK	1	25	21.46	0.140	21.52	0.142	21.51	0.142
10	QPSK	1	49	21.44	0.139	21.39	0.138	21.34	0.136
10	QPSK	25	0	20.75	0.119	20.76	0.119	20.72	0.118
10	QPSK	25	12	20.78	0.120	20.67	0.117	20.57	0.114
10	QPSK	25	25	20.59	0.115	20.65	0.116	20.42	0.110
10	QPSK	50	0	20.52	0.113	20.53	0.113	20.49	0.112
10	16QAM	1	0	20.88	0.122	20.94	0.124	20.84	0.121
10	16QAM	1	25	20.80	0.120	20.90	0.123	20.66	0.116
10	16QAM	1	49	20.62	0.115	20.75	0.119	20.54	0.113
10	16QAM	25	0	19.77	0.095	19.71	0.094	19.75	0.094
10	16QAM	25	12	19.62	0.092	19.74	0.094	19.69	0.093
10	16QAM	25	25	19.54	0.090	19.50	0.089	19.58	0.091
10	16QAM	50	0	19.44	0.088	19.48	0.089	19.45	0.088





LTE Band 17				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23755		23790		23825	
Frequency (MHz)				706.5		710		713.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	21.57	0.144	21.63	0.146	21.59	0.144
5	QPSK	1	12	21.45	0.140	21.49	0.141	21.48	0.141
5	QPSK	1	24	21.40	0.138	21.38	0.137	21.30	0.135
5	QPSK	12	0	20.73	0.118	20.63	0.116	20.70	0.117
5	QPSK	12	7	20.75	0.119	20.58	0.114	20.52	0.113
5	QPSK	12	13	20.58	0.114	20.62	0.115	20.39	0.109
5	QPSK	25	0	20.51	0.112	20.22	0.105	20.34	0.108
5	16QAM	1	0	20.85	0.122	20.90	0.123	20.81	0.121
5	16QAM	1	12	20.77	0.119	20.84	0.121	20.61	0.115
5	16QAM	1	24	20.59	0.115	20.68	0.117	20.49	0.112
5	16QAM	12	0	19.73	0.094	19.61	0.091	19.73	0.094
5	16QAM	12	7	19.60	0.091	19.71	0.094	19.66	0.092
5	16QAM	12	13	19.48	0.089	19.49	0.089	19.52	0.090
5	16QAM	25	0	19.39	0.087	19.34	0.086	19.39	0.087



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	23.50	0.224	23.58	0.228	23.49	0.223
20	QPSK	1	49	23.38	0.218	23.47	0.222	23.41	0.219
20	QPSK	1	99	23.21	0.209	23.34	0.216	23.27	0.212
20	QPSK	50	0	22.81	0.191	22.92	0.196	22.88	0.194
20	QPSK	50	24	22.67	0.185	22.84	0.192	22.70	0.186
20	QPSK	50	50	22.56	0.180	22.74	0.188	22.53	0.179
20	QPSK	100	0	22.40	0.174	22.63	0.183	22.43	0.175
20	16QAM	1	0	22.94	0.197	23.00	0.200	22.94	0.197
20	16QAM	1	49	22.88	0.194	22.88	0.194	22.91	0.195
20	16QAM	1	99	22.79	0.190	22.85	0.193	22.75	0.188
20	16QAM	50	0	21.85	0.153	21.89	0.155	21.85	0.153
20	16QAM	50	24	21.77	0.150	21.74	0.149	21.77	0.150
20	16QAM	50	50	21.63	0.146	21.71	0.148	21.65	0.146
20	16QAM	100	0	21.45	0.140	21.61	0.145	21.52	0.142



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	23.46	0.222	23.44	0.221	23.46	0.222
15	QPSK	1	37	23.32	0.215	23.34	0.216	23.37	0.217
15	QPSK	1	74	23.16	0.207	23.28	0.213	23.25	0.211
15	QPSK	36	0	22.76	0.189	22.86	0.193	22.84	0.192
15	QPSK	36	20	22.64	0.184	22.73	0.187	22.64	0.184
15	QPSK	36	39	22.53	0.179	22.65	0.184	22.48	0.177
15	QPSK	75	0	22.34	0.171	22.53	0.179	22.39	0.173
15	16QAM	1	0	22.93	0.196	22.95	0.197	22.91	0.195
15	16QAM	1	37	22.84	0.192	22.83	0.192	22.90	0.195
15	16QAM	1	74	22.74	0.188	22.70	0.186	22.73	0.187
15	16QAM	36	0	21.80	0.151	21.81	0.152	21.80	0.151
15	16QAM	36	20	21.76	0.150	21.69	0.148	21.74	0.149
15	16QAM	36	39	21.57	0.144	21.61	0.145	21.63	0.146
15	16QAM	75	0	21.40	0.138	21.58	0.144	21.47	0.140



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	23.46	0.222	23.53	0.225	23.46	0.222
10	QPSK	1	25	23.34	0.216	23.45	0.221	23.35	0.216
10	QPSK	1	49	23.16	0.207	23.24	0.211	23.21	0.209
10	QPSK	25	0	22.76	0.189	22.85	0.193	22.84	0.192
10	QPSK	25	12	22.65	0.184	22.76	0.189	22.68	0.185
10	QPSK	25	25	22.52	0.179	22.64	0.184	22.51	0.178
10	QPSK	50	0	22.38	0.173	22.56	0.180	22.41	0.174
10	16QAM	1	0	22.91	0.195	22.99	0.199	22.90	0.195
10	16QAM	1	25	22.84	0.192	22.77	0.189	22.86	0.193
10	16QAM	1	49	22.75	0.188	22.77	0.189	22.73	0.187
10	16QAM	25	0	21.84	0.153	21.77	0.150	21.81	0.152
10	16QAM	25	12	21.73	0.149	21.62	0.145	21.71	0.148
10	16QAM	25	25	21.62	0.145	21.60	0.145	21.62	0.145
10	16QAM	50	0	21.39	0.138	21.50	0.141	21.50	0.141



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	23.43	0.220	23.50	0.224	23.42	0.220
5	QPSK	1	12	23.29	0.213	23.36	0.217	23.34	0.216
5	QPSK	1	24	23.14	0.206	23.10	0.204	23.18	0.208
5	QPSK	12	0	22.72	0.187	22.80	0.191	22.81	0.191
5	QPSK	12	7	22.60	0.182	22.62	0.183	22.62	0.183
5	QPSK	12	13	22.48	0.177	22.57	0.181	22.49	0.177
5	QPSK	25	0	22.36	0.172	22.43	0.175	22.37	0.173
5	16QAM	1	0	22.88	0.194	22.86	0.193	22.84	0.192
5	16QAM	1	12	22.80	0.191	22.62	0.183	22.83	0.192
5	16QAM	1	24	22.71	0.187	22.61	0.182	22.72	0.187
5	16QAM	12	0	21.79	0.151	21.66	0.147	21.77	0.150
5	16QAM	12	7	21.70	0.148	21.52	0.142	21.69	0.148
5	16QAM	12	13	21.56	0.143	21.49	0.141	21.60	0.145
5	16QAM	25	0	21.35	0.136	21.38	0.137	21.49	0.141



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	23.42	0.220	23.44	0.221	23.43	0.220
3	QPSK	1	8	23.32	0.215	23.31	0.214	23.29	0.213
3	QPSK	1	14	23.15	0.207	23.20	0.209	23.16	0.207
3	QPSK	8	0	22.74	0.188	22.83	0.192	22.82	0.191
3	QPSK	8	4	22.63	0.183	22.61	0.182	22.64	0.184
3	QPSK	8	7	22.49	0.177	22.51	0.178	22.46	0.176
3	QPSK	15	0	22.32	0.171	22.45	0.176	22.39	0.173
3	16QAM	1	0	22.90	0.195	22.94	0.197	22.86	0.193
3	16QAM	1	8	22.83	0.192	22.74	0.188	22.83	0.192
3	16QAM	1	14	22.69	0.186	22.72	0.187	22.68	0.185
3	16QAM	8	0	21.82	0.152	21.64	0.146	21.80	0.151
3	16QAM	8	4	21.71	0.148	21.53	0.142	21.70	0.148
3	16QAM	8	7	21.60	0.145	21.53	0.142	21.59	0.144
3	16QAM	15	0	21.35	0.136	21.40	0.138	21.47	0.140



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	23.45	0.221	23.49	0.223	23.41	0.219
1.4	QPSK	1	3	23.30	0.214	23.43	0.220	23.30	0.214
1.4	QPSK	1	5	23.15	0.207	23.16	0.207	23.18	0.208
1.4	QPSK	3	0	22.72	0.187	22.70	0.186	22.82	0.191
1.4	QPSK	3	1	22.61	0.182	22.74	0.188	22.62	0.183
1.4	QPSK	3	3	22.51	0.178	22.53	0.179	22.50	0.178
1.4	QPSK	6	0	22.34	0.171	22.48	0.177	22.39	0.173
1.4	16QAM	1	0	22.89	0.195	22.84	0.192	22.88	0.194
1.4	16QAM	1	3	22.81	0.191	22.62	0.183	22.82	0.191
1.4	16QAM	1	5	22.74	0.188	22.69	0.186	22.69	0.186
1.4	16QAM	3	0	21.79	0.151	21.74	0.149	21.76	0.150
1.4	16QAM	3	1	21.67	0.147	21.54	0.143	21.69	0.148
1.4	16QAM	3	3	21.60	0.145	21.55	0.143	21.57	0.144
1.4	16QAM	6	0	21.37	0.137	21.34	0.136	21.49	0.141



LTE Band 71				Measured E.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	21.65	0.146	21.68	0.147	21.64	0.146
20	QPSK	1	49	21.51	0.142	21.58	0.144	21.50	0.141
20	QPSK	1	99	21.38	0.137	21.47	0.140	21.46	0.140
20	QPSK	50	0	20.78	0.120	20.89	0.123	20.79	0.120
20	QPSK	50	24	20.69	0.117	20.76	0.119	20.70	0.117
20	QPSK	50	50	20.61	0.115	20.63	0.116	20.53	0.113
20	QPSK	100	0	20.46	0.111	20.49	0.112	20.48	0.112
20	16QAM	1	0	20.65	0.116	20.73	0.118	20.67	0.117
20	16QAM	1	49	20.54	0.113	20.60	0.115	20.58	0.114
20	16QAM	1	99	20.40	0.110	20.44	0.111	20.42	0.110
20	16QAM	50	0	19.86	0.097	19.90	0.098	19.80	0.095
20	16QAM	50	24	19.70	0.093	19.78	0.095	19.72	0.094
20	16QAM	50	50	19.67	0.093	19.69	0.093	19.66	0.092
20	16QAM	100	0	19.57	0.091	19.59	0.091	19.60	0.091





LTE Band 71				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				133197		133297		133397	
Frequency (MHz)				670.5		680.5		690.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	21.62	0.145	21.63	0.146	21.59	0.144
15	QPSK	1	37	21.49	0.141	21.51	0.142	21.45	0.140
15	QPSK	1	74	21.33	0.136	21.41	0.138	21.40	0.138
15	QPSK	36	0	20.74	0.119	20.82	0.121	20.74	0.119
15	QPSK	36	20	20.65	0.116	20.71	0.118	20.65	0.116
15	QPSK	36	39	20.59	0.115	20.55	0.114	20.47	0.111
15	QPSK	75	0	20.40	0.110	20.42	0.110	20.42	0.110
15	16QAM	1	0	20.59	0.115	20.69	0.117	20.65	0.116
15	16QAM	1	37	20.50	0.112	20.45	0.111	20.55	0.114
15	16QAM	1	74	20.37	0.109	20.28	0.107	20.37	0.109
15	16QAM	36	0	19.83	0.096	19.76	0.095	19.77	0.095
15	16QAM	36	20	19.68	0.093	19.68	0.093	19.69	0.093
15	16QAM	36	39	19.61	0.091	19.68	0.093	19.60	0.091
15	16QAM	75	0	19.55	0.090	19.51	0.089	19.57	0.091



LTE Band 71				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				133172		133297		133422	
Frequency (MHz)				668		680.5		693	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	21.63	0.146	21.64	0.146	21.58	0.144
10	QPSK	1	25	21.43	0.139	21.48	0.141	21.45	0.140
10	QPSK	1	49	21.30	0.135	21.38	0.137	21.37	0.137
10	QPSK	25	0	20.71	0.118	20.82	0.121	20.71	0.118
10	QPSK	25	12	20.58	0.114	20.67	0.117	20.61	0.115
10	QPSK	25	25	20.51	0.112	20.48	0.112	20.46	0.111
10	QPSK	50	0	20.41	0.110	20.35	0.108	20.40	0.110
10	16QAM	1	0	20.59	0.115	20.62	0.115	20.62	0.115
10	16QAM	1	25	20.49	0.112	20.38	0.109	20.54	0.113
10	16QAM	1	49	20.33	0.108	20.17	0.104	20.36	0.109
10	16QAM	25	0	19.81	0.096	19.74	0.094	19.73	0.094
10	16QAM	25	12	19.64	0.092	19.62	0.092	19.63	0.092
10	16QAM	25	25	19.62	0.092	19.57	0.091	19.60	0.091
10	16QAM	50	0	19.51	0.089	19.29	0.085	19.50	0.089



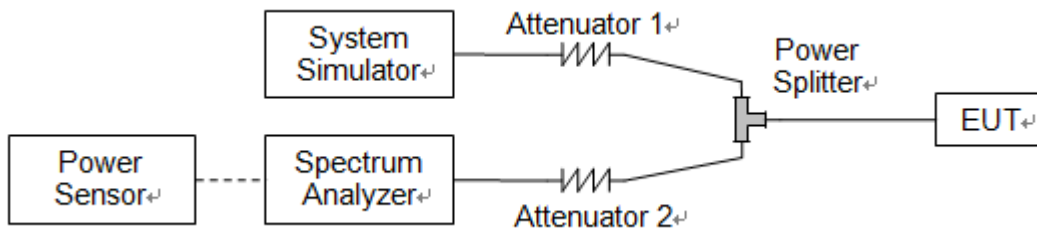
LTE Band 71				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				133147		133297		133447	
Frequency (MHz)				665.5		680.5		695.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	21.54	0.143	21.59	0.144	21.58	0.144
5	QPSK	1	12	21.43	0.139	21.49	0.141	21.42	0.139
5	QPSK	1	24	21.32	0.136	21.28	0.134	21.38	0.137
5	QPSK	12	0	20.70	0.117	20.78	0.120	20.70	0.117
5	QPSK	12	7	20.60	0.115	20.62	0.115	20.63	0.116
5	QPSK	12	13	20.52	0.113	20.42	0.110	20.47	0.111
5	QPSK	25	0	20.42	0.110	20.27	0.106	20.40	0.110
5	16QAM	1	0	20.60	0.115	20.71	0.118	20.59	0.115
5	16QAM	1	12	20.48	0.112	20.36	0.109	20.52	0.113
5	16QAM	1	24	20.35	0.108	20.25	0.106	20.32	0.108
5	16QAM	12	0	19.78	0.095	19.79	0.095	19.73	0.094
5	16QAM	12	7	19.61	0.091	19.66	0.092	19.63	0.092
5	16QAM	12	13	19.61	0.091	19.48	0.089	19.63	0.092
5	16QAM	25	0	19.48	0.089	19.40	0.087	19.52	0.090

## 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	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B2	1.4	Low	18607	1850.7	QPSK	1.09	1.28	PASS
B2	1.4	Low	18607	1850.7	16QAM	1.10	1.30	PASS
B2	1.4	Mid	18900	1880	QPSK	1.10	1.27	PASS
B2	1.4	Mid	18900	1880	16QAM	1.10	1.31	PASS
B2	1.4	High	19193	1909.3	QPSK	1.09	1.26	PASS
B2	1.4	High	19193	1909.3	16QAM	1.10	1.30	PASS
B2	3	Low	18615	1851.5	QPSK	2.69	2.92	PASS
B2	3	Low	18615	1851.5	16QAM	2.69	2.93	PASS
B2	3	Mid	18900	1880	QPSK	2.70	2.99	PASS
B2	3	Mid	18900	1880	16QAM	2.69	2.91	PASS
B2	3	High	19185	1908.5	QPSK	2.69	2.93	PASS
B2	3	High	19185	1908.5	16QAM	2.69	2.93	PASS
B2	5	Low	18625	1852.5	QPSK	4.50	4.97	PASS
B2	5	Low	18625	1852.5	16QAM	4.52	4.88	PASS
B2	5	Mid	18900	1880	QPSK	4.50	4.91	PASS
B2	5	Mid	18900	1880	16QAM	4.50	4.88	PASS
B2	5	High	19175	1907.5	QPSK	4.50	4.96	PASS
B2	5	High	19175	1907.5	16QAM	4.50	4.94	PASS
B2	10	Low	18650	1855	QPSK	9.00	9.70	PASS
B2	10	Low	18650	1855	16QAM	8.96	9.72	PASS
B2	10	Mid	18900	1880	QPSK	9.00	9.69	PASS
B2	10	Mid	18900	1880	16QAM	8.99	9.74	PASS
B2	10	High	19150	1905	QPSK	9.00	9.89	PASS
B2	10	High	19150	1905	16QAM	8.96	9.75	PASS
B2	15	Low	18675	1857.5	QPSK	13.50	14.59	PASS
B2	15	Low	18675	1857.5	16QAM	13.47	15.28	PASS
B2	15	Mid	18900	1880	QPSK	13.48	14.90	PASS
B2	15	Mid	18900	1880	16QAM	13.49	14.93	PASS
B2	15	High	19125	1902.5	QPSK	13.46	14.59	PASS
B2	15	High	19125	1902.5	16QAM	13.44	14.62	PASS
B2	20	Low	18700	1860	QPSK	17.98	19.34	PASS
B2	20	Low	18700	1860	16QAM	18.02	19.38	PASS
B2	20	Mid	18900	1880	QPSK	18.03	29.85	PASS
B2	20	Mid	18900	1880	16QAM	18.01	30.86	PASS
B2	20	High	19100	1900	QPSK	17.96	19.33	PASS



B2	20	High	19100	1900	16QAM	17.97	19.27	PASS
B4	1.4	Low	19957	1710.7	QPSK	1.10	1.26	PASS
B4	1.4	Low	19957	1710.7	16QAM	1.10	1.28	PASS
B4	1.4	Mid	20175	1732.5	QPSK	1.09	1.27	PASS
B4	1.4	Mid	20175	1732.5	16QAM	1.10	1.28	PASS
B4	1.4	High	20393	1754.3	QPSK	1.09	1.27	PASS
B4	1.4	High	20393	1754.3	16QAM	1.10	1.29	PASS
B4	3	Low	19965	1711.5	QPSK	2.69	2.92	PASS
B4	3	Low	19965	1711.5	16QAM	2.69	2.92	PASS
B4	3	Mid	20175	1732.5	QPSK	2.69	2.92	PASS
B4	3	Mid	20175	1732.5	16QAM	2.69	2.93	PASS
B4	3	High	20385	1753.5	QPSK	2.70	2.92	PASS
B4	3	High	20385	1753.5	16QAM	2.69	3.17	PASS
B4	5	Low	19975	1712.5	QPSK	4.49	4.94	PASS
B4	5	Low	19975	1712.5	16QAM	4.49	4.94	PASS
B4	5	Mid	20175	1732.5	QPSK	4.50	5.64	PASS
B4	5	Mid	20175	1732.5	16QAM	4.51	4.95	PASS
B4	5	High	20375	1752.5	QPSK	4.50	4.94	PASS
B4	5	High	20375	1752.5	16QAM	4.50	4.91	PASS
B4	10	Low	20000	1715	QPSK	9.00	9.74	PASS
B4	10	Low	20000	1715	16QAM	8.97	9.69	PASS
B4	10	Mid	20175	1732.5	QPSK	8.99	9.78	PASS
B4	10	Mid	20175	1732.5	16QAM	8.97	9.68	PASS
B4	10	High	20350	1750	QPSK	9.00	9.80	PASS
B4	10	High	20350	1750	16QAM	8.97	9.67	PASS
B4	15	Low	20025	1717.5	QPSK	13.50	14.60	PASS
B4	15	Low	20025	1717.5	16QAM	13.47	14.64	PASS
B4	15	Mid	20175	1732.5	QPSK	13.51	15.99	PASS
B4	15	Mid	20175	1732.5	16QAM	13.49	16.51	PASS
B4	15	High	20325	1747.5	QPSK	13.48	14.58	PASS
B4	15	High	20325	1747.5	16QAM	13.47	14.58	PASS
B4	20	Low	20050	1720	QPSK	17.99	19.35	PASS
B4	20	Low	20050	1720	16QAM	17.99	19.46	PASS
B4	20	Mid	20175	1732.5	QPSK	18.00	19.28	PASS
B4	20	Mid	20175	1732.5	16QAM	18.01	24.36	PASS
B4	20	High	20300	1745	QPSK	17.99	19.46	PASS
B4	20	High	20300	1745	16QAM	18.03	19.40	PASS
B5	1.4	Low	20407	824.7	QPSK	1.09	1.26	PASS



B5	1.4	Low	20407	824.7	16QAM	1.10	1.28	PASS
B5	1.4	Mid	20525	836.5	QPSK	1.09	1.27	PASS
B5	1.4	Mid	20525	836.5	16QAM	1.09	1.30	PASS
B5	1.4	High	20643	848.3	QPSK	1.09	1.27	PASS
B5	1.4	High	20643	848.3	16QAM	1.10	1.31	PASS
B5	3	Low	20415	825.5	QPSK	2.69	2.92	PASS
B5	3	Low	20415	825.5	16QAM	2.69	2.91	PASS
B5	3	Mid	20525	836.5	QPSK	2.69	2.92	PASS
B5	3	Mid	20525	836.5	16QAM	2.69	2.93	PASS
B5	3	High	20635	847.5	QPSK	2.69	2.90	PASS
B5	3	High	20635	847.5	16QAM	2.69	2.94	PASS
B5	5	Low	20425	826.5	QPSK	4.50	4.93	PASS
B5	5	Low	20425	826.5	16QAM	4.50	4.90	PASS
B5	5	Mid	20525	836.5	QPSK	4.50	4.92	PASS
B5	5	Mid	20525	836.5	16QAM	4.49	4.92	PASS
B5	5	High	20625	846.5	QPSK	4.49	4.93	PASS
B5	5	High	20625	846.5	16QAM	4.51	4.92	PASS
B5	10	Low	20450	829	QPSK	9.02	9.78	PASS
B5	10	Low	20450	829	16QAM	8.98	9.67	PASS
B5	10	Mid	20525	836.5	QPSK	9.00	9.73	PASS
B5	10	Mid	20525	836.5	16QAM	8.96	9.72	PASS
B5	10	High	20600	844	QPSK	9.01	9.73	PASS
B5	10	High	20600	844	16QAM	8.97	9.69	PASS
B12	1.4	Low	23017	699.7	QPSK	1.09	1.26	PASS
B12	1.4	Low	23017	699.7	16QAM	1.10	1.28	PASS
B12	1.4	Mid	23095	707.5	QPSK	1.10	1.26	PASS
B12	1.4	Mid	23095	707.5	16QAM	1.10	1.28	PASS
B12	1.4	High	23173	715.3	QPSK	1.10	1.29	PASS
B12	1.4	High	23173	715.3	16QAM	1.10	1.30	PASS
B12	3	Low	23025	700.5	QPSK	2.69	2.91	PASS
B12	3	Low	23025	700.5	16QAM	2.69	2.92	PASS
B12	3	Mid	23095	707.5	QPSK	2.69	2.91	PASS
B12	3	Mid	23095	707.5	16QAM	2.69	2.91	PASS
B12	3	High	23165	714.5	QPSK	2.69	2.92	PASS
B12	3	High	23165	714.5	16QAM	2.69	2.94	PASS
B12	5	Low	23035	701.5	QPSK	4.51	5.15	PASS
B12	5	Low	23035	701.5	16QAM	4.51	5.12	PASS
B12	5	Mid	23095	707.5	QPSK	4.51	5.15	PASS



B12	5	Mid	23095	707.5	16QAM	4.51	5.17	PASS
B12	5	High	23155	713.5	QPSK	4.52	5.23	PASS
B12	5	High	23155	713.5	16QAM	4.51	5.11	PASS
B12	10	Low	23060	704	QPSK	9.01	10.03	PASS
B12	10	Low	23060	704	16QAM	8.98	10.03	PASS
B12	10	Mid	23095	707.5	QPSK	9.00	10.08	PASS
B12	10	Mid	23095	707.5	16QAM	8.99	10.00	PASS
B12	10	High	23130	711	QPSK	9.02	9.98	PASS
B12	10	High	23130	711	16QAM	8.99	9.85	PASS
B17	5	Low	23755	706.5	QPSK	4.51	5.21	PASS
B17	5	Low	23755	706.5	16QAM	4.52	5.12	PASS
B17	5	Mid	23790	710	QPSK	4.52	5.23	PASS
B17	5	Mid	23790	710	16QAM	4.51	5.16	PASS
B17	5	High	23825	713.5	QPSK	4.52	5.18	PASS
B17	5	High	23825	713.5	16QAM	4.51	5.12	PASS
B17	10	Low	23780	709	QPSK	9.00	10.02	PASS
B17	10	Low	23780	709	16QAM	8.99	9.96	PASS
B17	10	Mid	23790	710	QPSK	9.02	10.15	PASS
B17	10	Mid	23790	710	16QAM	8.99	9.85	PASS
B17	10	High	23800	711	QPSK	9.01	10.08	PASS
B17	10	High	23800	711	16QAM	8.99	9.97	PASS
B66	1.4	Low	131979	1710.7	QPSK	1.09	1.29	PASS
B66	1.4	Low	131979	1710.7	16QAM	1.09	1.30	PASS
B66	1.4	Mid	132322	1745	QPSK	1.09	1.29	PASS
B66	1.4	Mid	132322	1745	16QAM	1.10	1.30	PASS
B66	1.4	High	132665	1779.3	QPSK	1.09	1.28	PASS
B66	1.4	High	132665	1779.3	16QAM	1.10	1.29	PASS
B66	3	Low	131987	1711.5	QPSK	2.69	2.90	PASS
B66	3	Low	131987	1711.5	16QAM	2.69	2.92	PASS
B66	3	Mid	132322	1745	QPSK	2.69	2.91	PASS
B66	3	Mid	132322	1745	16QAM	2.69	2.92	PASS
B66	3	High	132657	1778.5	QPSK	2.69	2.91	PASS
B66	3	High	132657	1778.5	16QAM	2.69	2.93	PASS
B66	5	Low	131997	1712.5	QPSK	4.52	5.28	PASS
B66	5	Low	131997	1712.5	16QAM	4.51	5.10	PASS
B66	5	Mid	132322	1745	QPSK	4.51	5.17	PASS
B66	5	Mid	132322	1745	16QAM	4.52	5.20	PASS
B66	5	High	132647	1777.5	QPSK	4.51	5.16	PASS

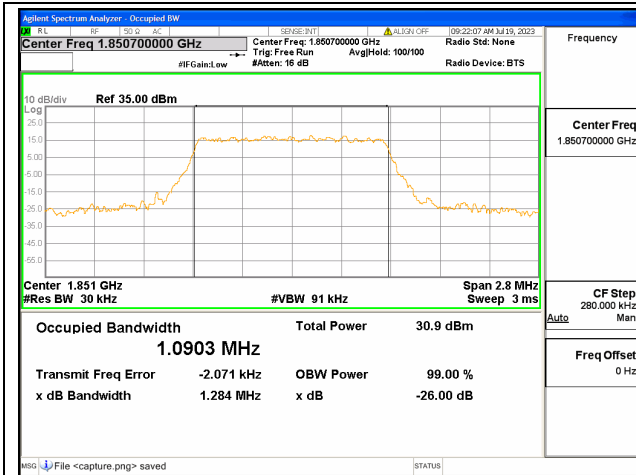




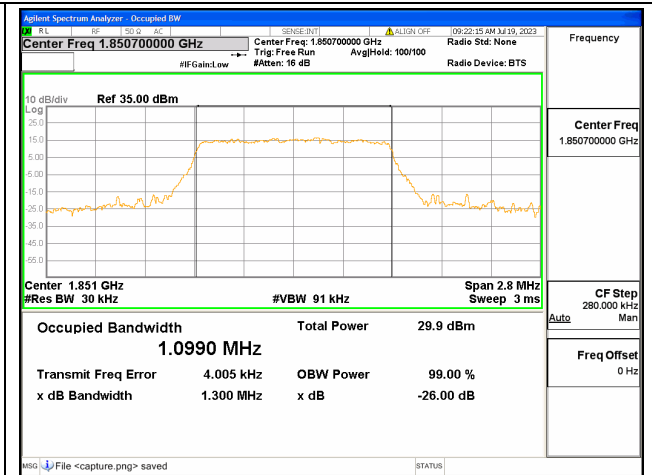
B66	5	High	132647	1777.5	16QAM	4.51	5.14	PASS
B66	10	Low	132022	1715	QPSK	9.01	10.06	PASS
B66	10	Low	132022	1715	16QAM	8.99	9.98	PASS
B66	10	Mid	132322	1745	QPSK	8.98	9.99	PASS
B66	10	Mid	132322	1745	16QAM	8.98	9.94	PASS
B66	10	High	132622	1775	QPSK	9.01	10.05	PASS
B66	10	High	132622	1775	16QAM	8.99	9.90	PASS
B66	15	Low	132047	1717.5	QPSK	13.52	15.10	PASS
B66	15	Low	132047	1717.5	16QAM	13.50	14.96	PASS
B66	15	Mid	132322	1745	QPSK	13.50	15.00	PASS
B66	15	Mid	132322	1745	16QAM	13.49	14.99	PASS
B66	15	High	132597	1772.5	QPSK	13.50	15.07	PASS
B66	15	High	132597	1772.5	16QAM	13.50	15.02	PASS
B66	20	Low	132072	1720	QPSK	18.02	20.47	PASS
B66	20	Low	132072	1720	16QAM	18.06	19.82	PASS
B66	20	Mid	132322	1745	QPSK	18.01	19.68	PASS
B66	20	Mid	132322	1745	16QAM	18.00	19.79	PASS
B66	20	High	132572	1770	QPSK	18.03	19.81	PASS
B66	20	High	132572	1770	16QAM	17.96	19.76	PASS
B71	5	Low	133147	665.5	QPSK	4.51	5.13	PASS
B71	5	Low	133147	665.5	16QAM	4.50	5.12	PASS
B71	5	Mid	133297	680.5	QPSK	4.52	5.21	PASS
B71	5	Mid	133297	680.5	16QAM	4.52	5.16	PASS
B71	5	High	133447	695.5	QPSK	4.54	5.17	PASS
B71	5	High	133447	695.5	16QAM	4.52	5.17	PASS
B71	10	Low	133172	668	QPSK	9.02	10.05	PASS
B71	10	Low	133172	668	16QAM	9.00	10.07	PASS
B71	10	Mid	133297	680.5	QPSK	9.04	10.10	PASS
B71	10	Mid	133297	680.5	16QAM	9.01	10.07	PASS
B71	10	High	133422	693	QPSK	9.01	10.12	PASS
B71	10	High	133422	693	16QAM	8.99	10.02	PASS
B71	15	Low	133197	670.5	QPSK	13.44	14.91	PASS
B71	15	Low	133197	670.5	16QAM	13.49	14.75	PASS
B71	15	Mid	133297	680.5	QPSK	13.55	15.02	PASS
B71	15	Mid	133297	680.5	16QAM	13.54	15.06	PASS
B71	15	High	133397	690.5	QPSK	13.46	15.02	PASS
B71	15	High	133397	690.5	16QAM	13.46	14.94	PASS
B71	20	Low	133222	673	QPSK	17.98	19.66	PASS



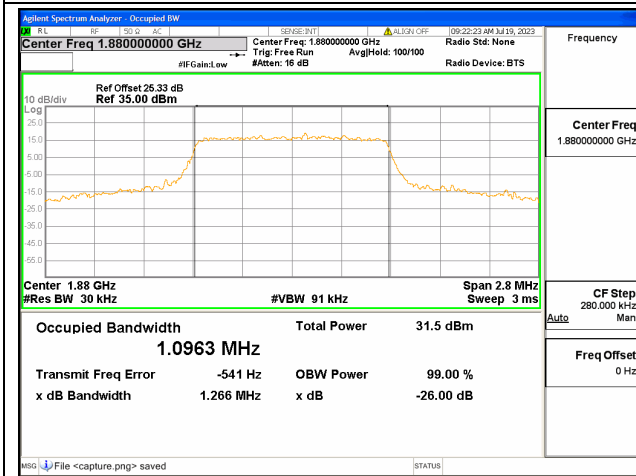
B71	20	Low	133222	673	16QAM	17.97	19.65	PASS
B71	20	Mid	133322	683	QPSK	18.00	19.94	PASS
B71	20	Mid	133322	683	16QAM	18.02	19.90	PASS
B71	20	High	133372	688	QPSK	17.98	19.72	PASS
B71	20	High	133372	688	16QAM	17.96	19.75	PASS



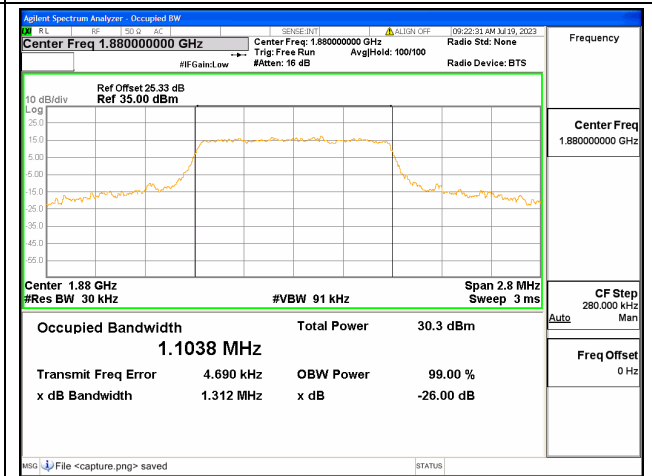
B2 / 1.4MHz / QPSK/ Low CH



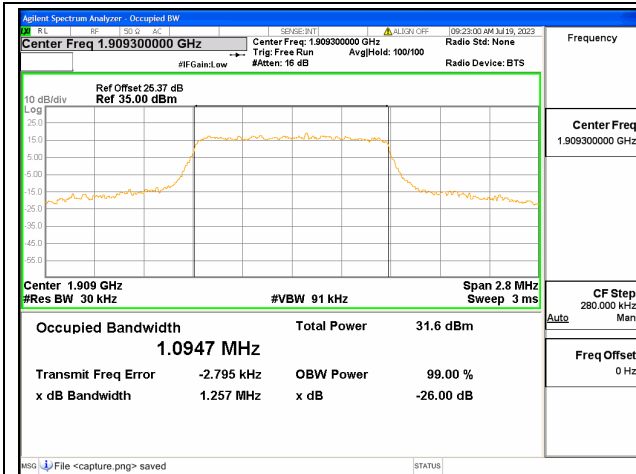
B2 / 1.4MHz / 16QAM/ Low CH



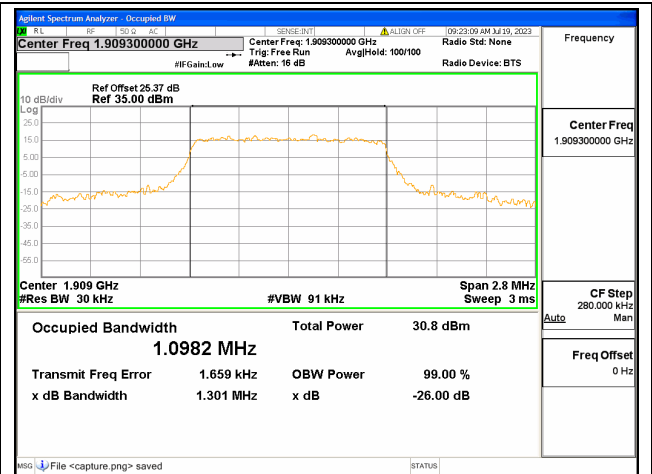
B2 / 1.4MHz / QPSK/ Mid CH



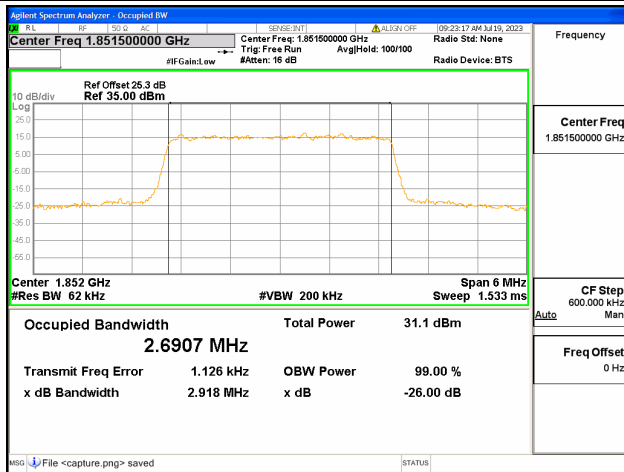
B2 / 1.4MHz / 16QAM/ Mid CH



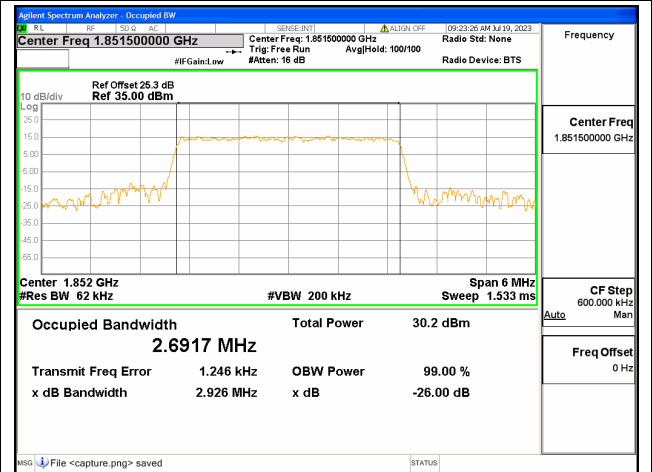
B2 / 1.4MHz / QPSK/ High CH



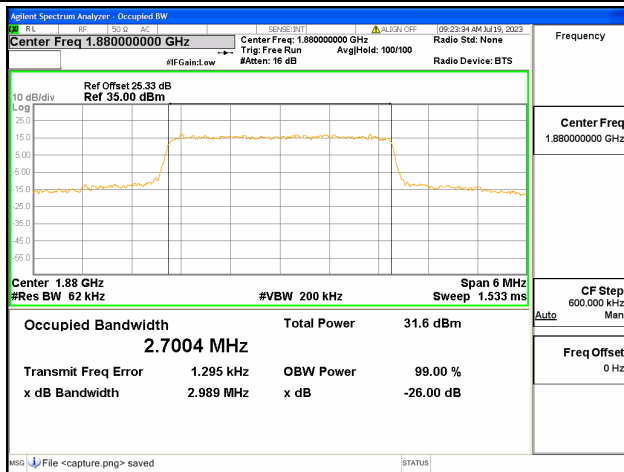
B2 / 1.4MHz / 16QAM/ High CH



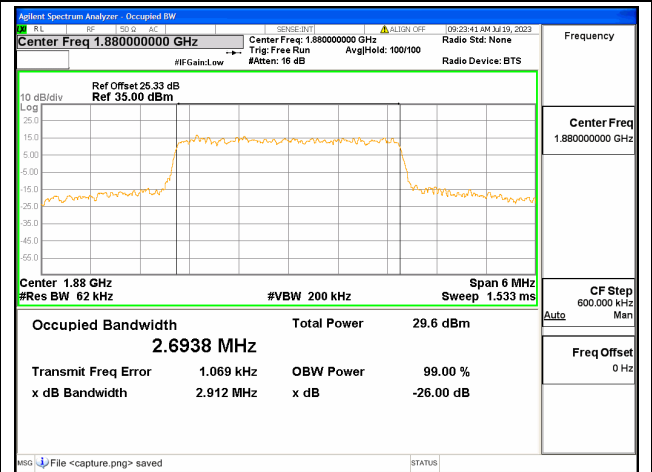
B2 / 3MHz / QPSK/ Low CH



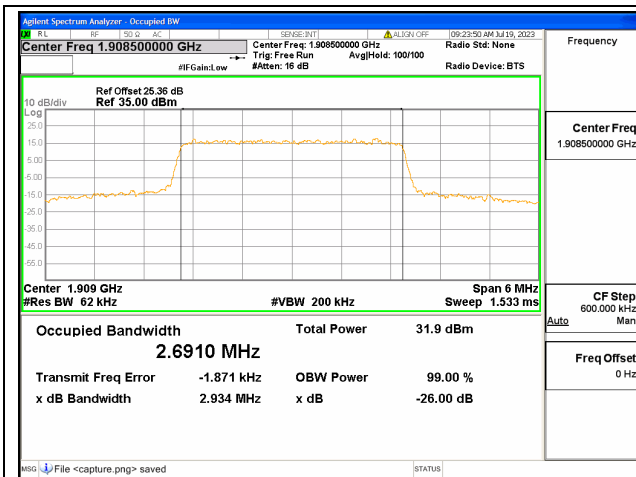
B2 / 3MHz / 16QAM/ Low CH



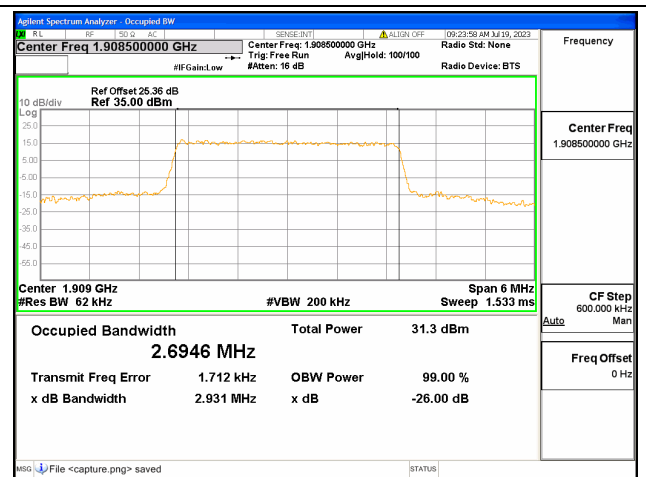
B2 / 3MHz / QPSK/ Mid CH



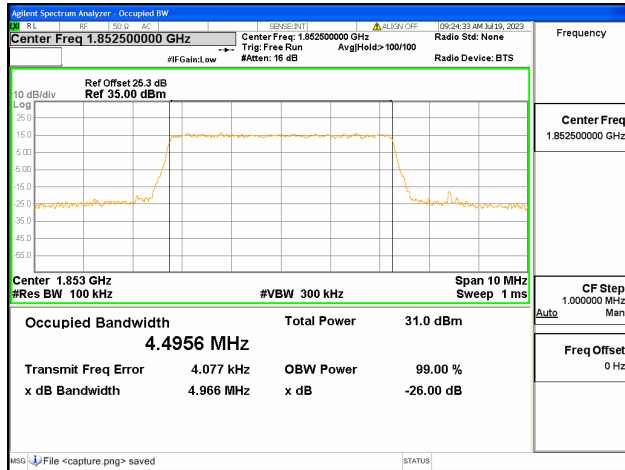
B2 / 3MHz / 16QAM/ Mid CH



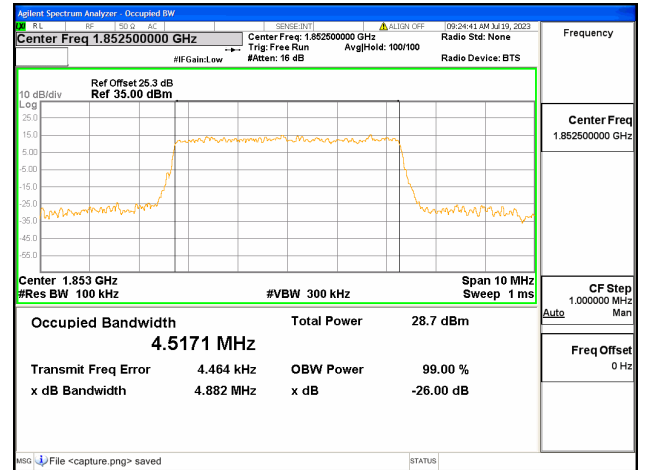
B2 / 3MHz / QPSK/ High CH



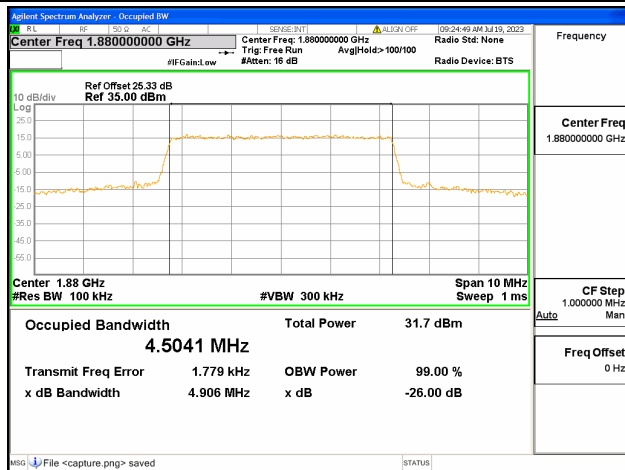
B2 / 3MHz / 16QAM/ High CH



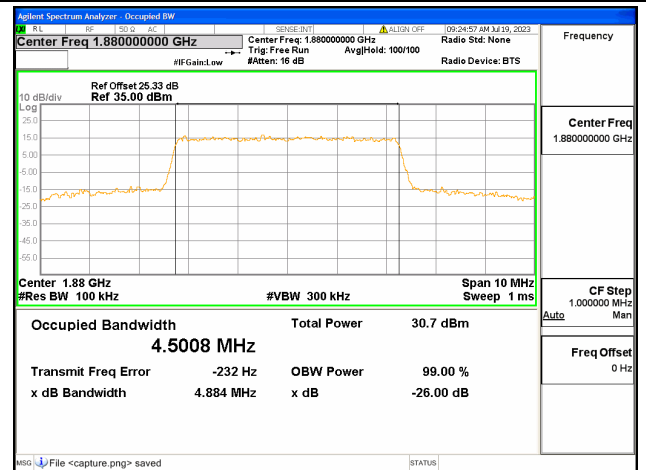
B2 / 5MHz / QPSK/ Low CH



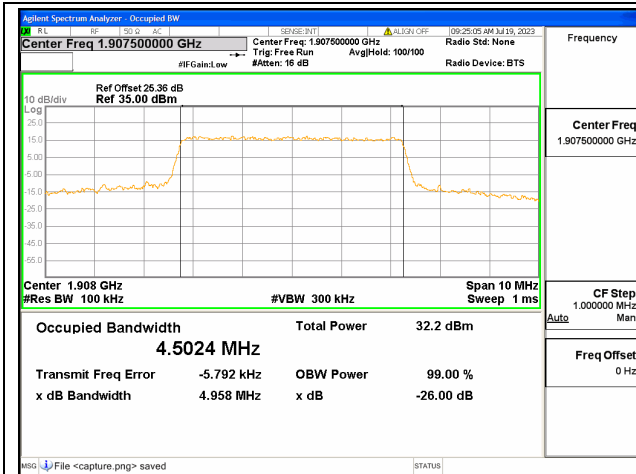
B2 / 5MHz / 16QAM/ Low CH



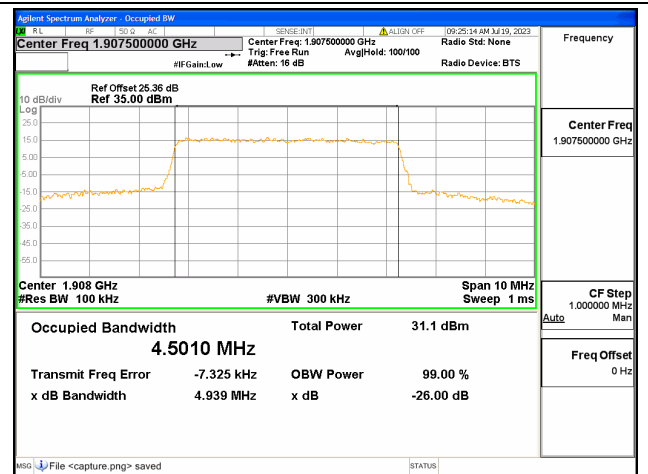
B2 / 5MHz / QPSK/ Mid CH



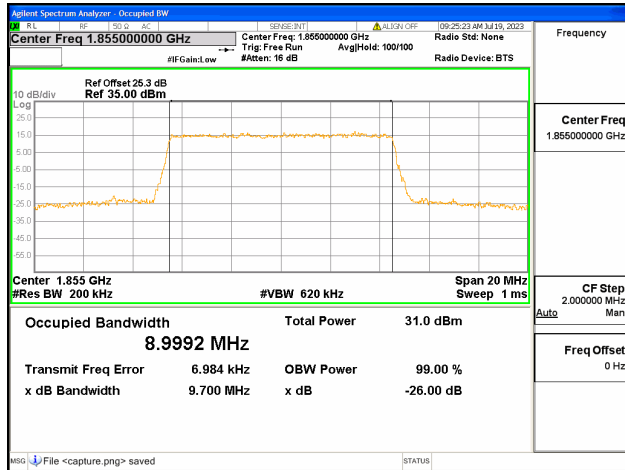
B2 / 5MHz / 16QAM/ Mid CH



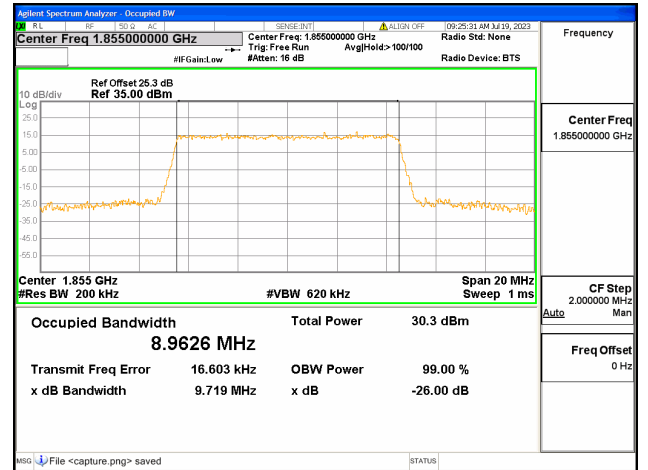
B2 / 5MHz / QPSK/ High CH



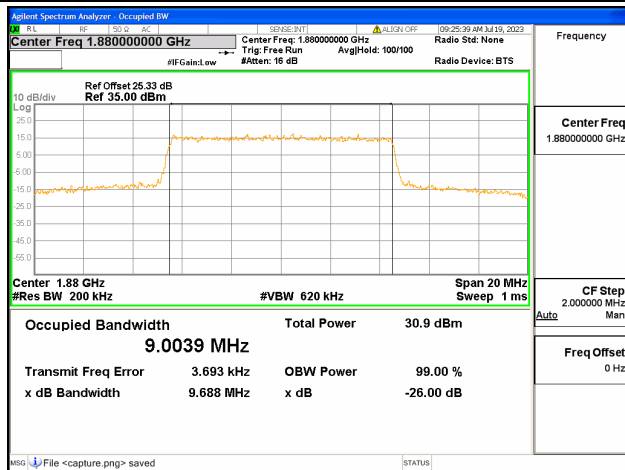
B2 / 5MHz / 16QAM/ High CH



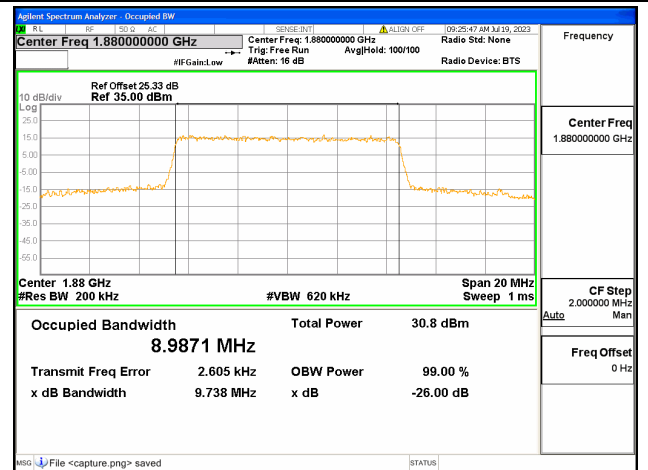
B2 / 10MHz / QPSK/ Low CH



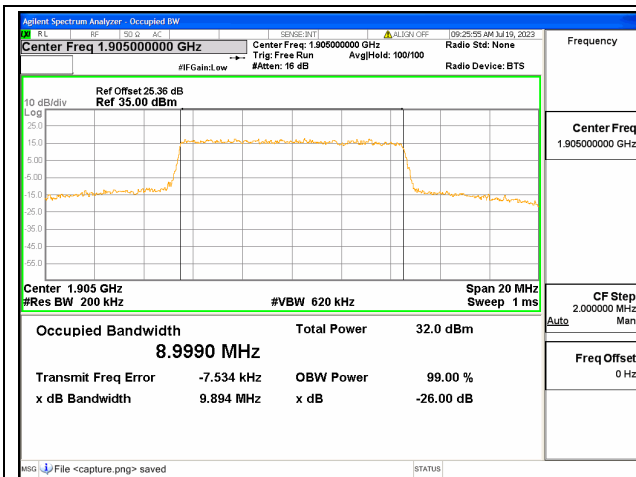
B2 / 10MHz / 16QAM/ Low CH



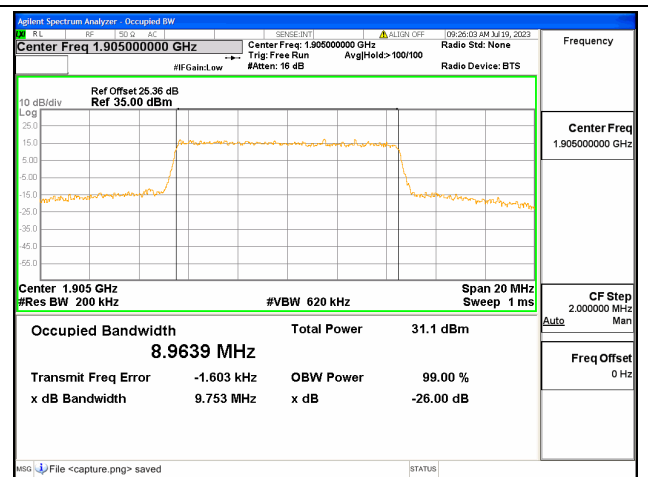
B2 / 10MHz / QPSK/ Mid CH



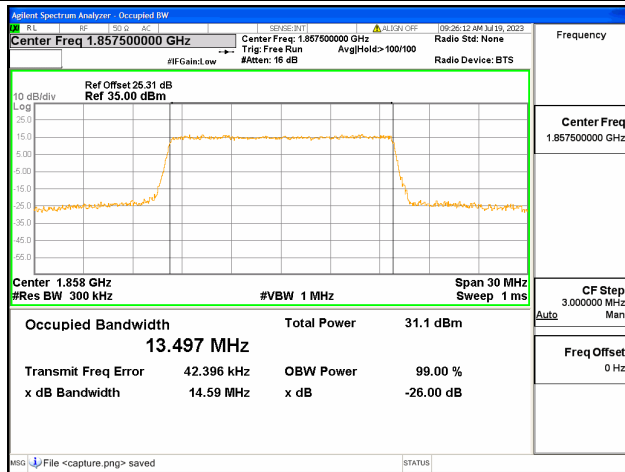
B2 / 10MHz / 16QAM/ Mid CH



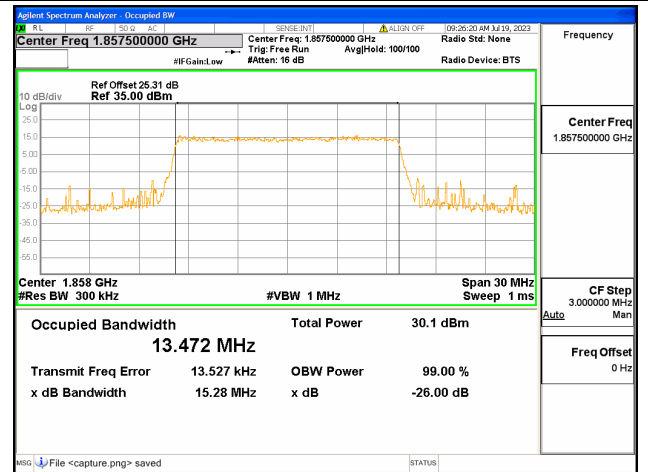
B2 / 10MHz / QPSK/ High CH



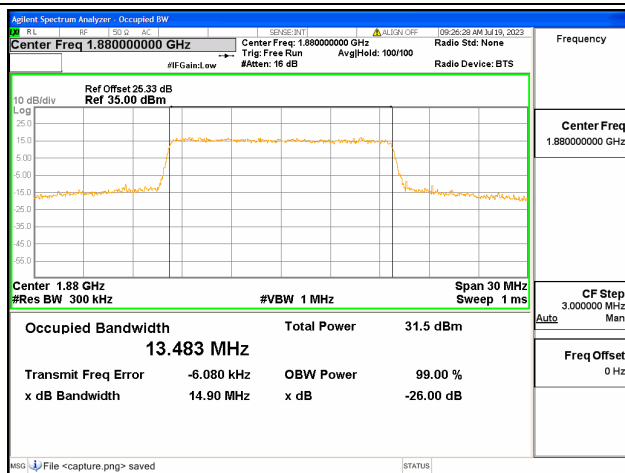
B2 / 10MHz / 16QAM/ High CH



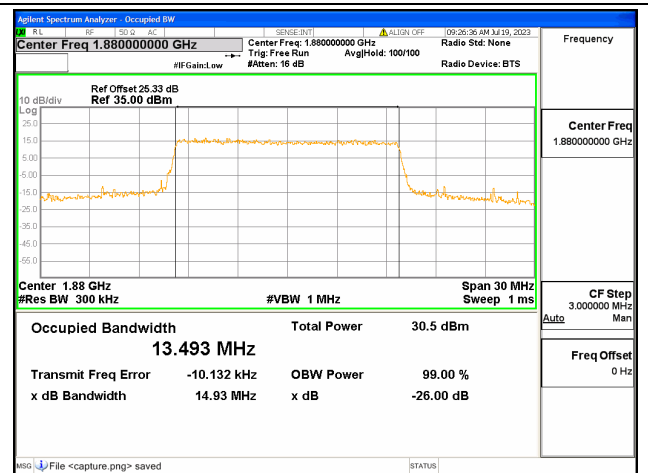
B2 / 15MHz / QPSK/ Low CH



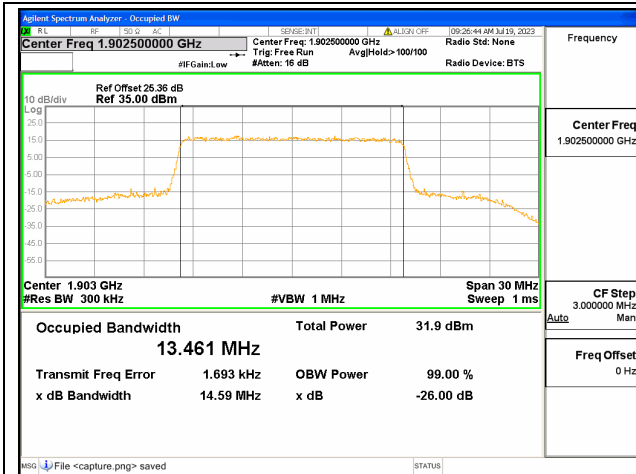
B2 / 15MHz / 16QAM/ Low CH



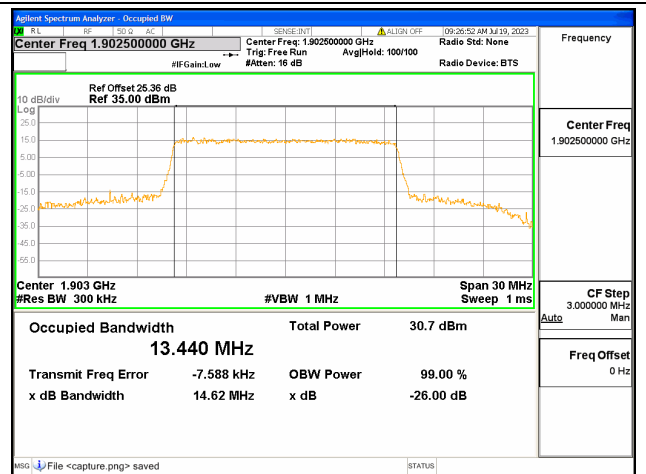
B2 / 15MHz / QPSK/ Mid CH



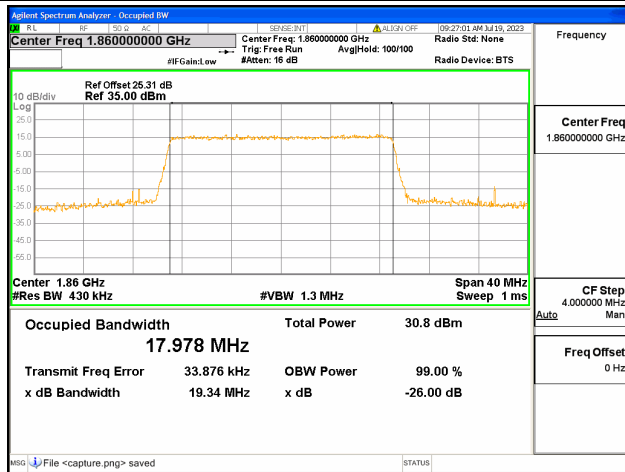
B2 / 15MHz / 16QAM/ Mid CH



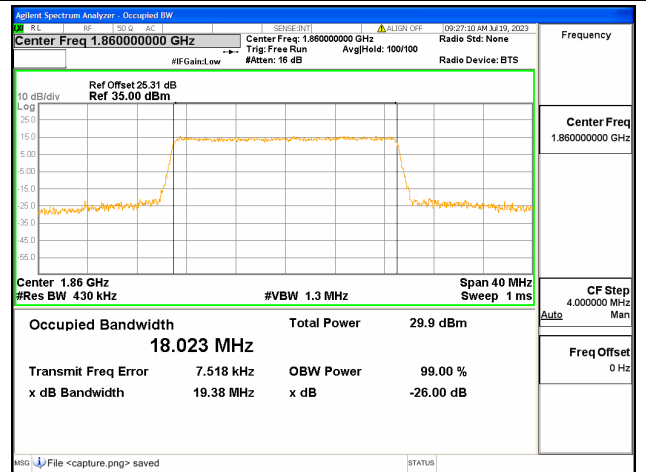
B2 / 15MHz / QPSK/ High CH



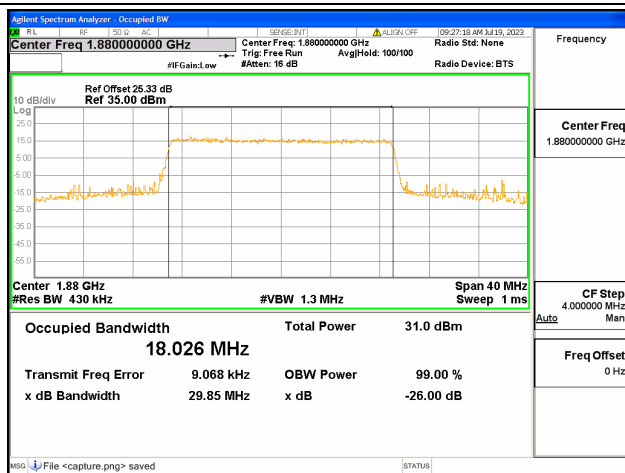
B2 / 15MHz / 16QAM/ High CH



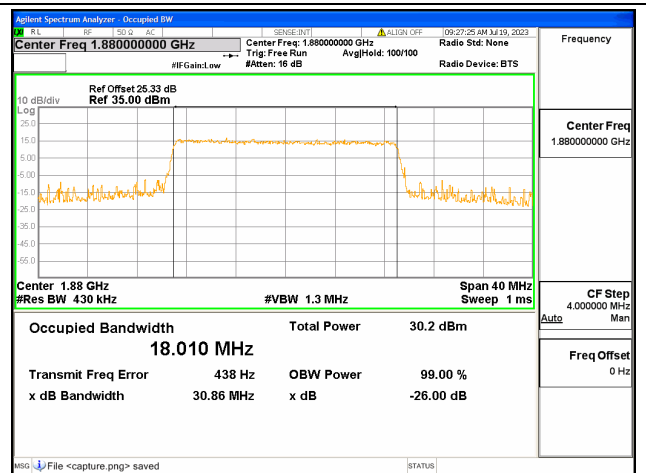
B2 / 20MHz / QPSK/ Low CH



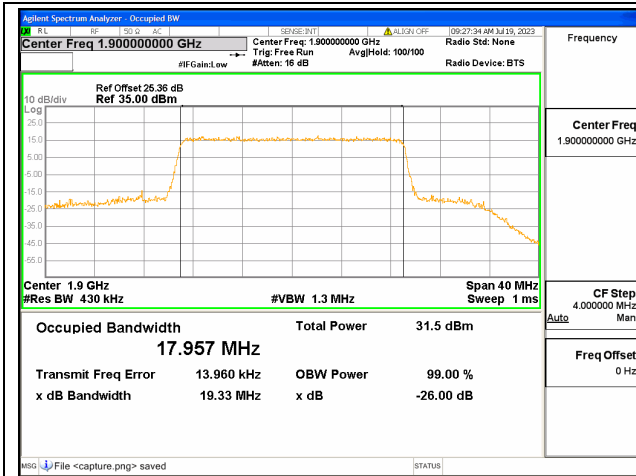
B2 / 20MHz / 16QAM/ Low CH



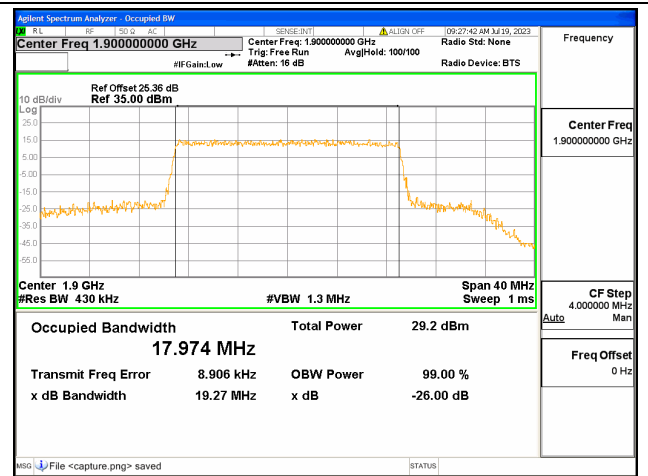
B2 / 20MHz / QPSK/ Mid CH



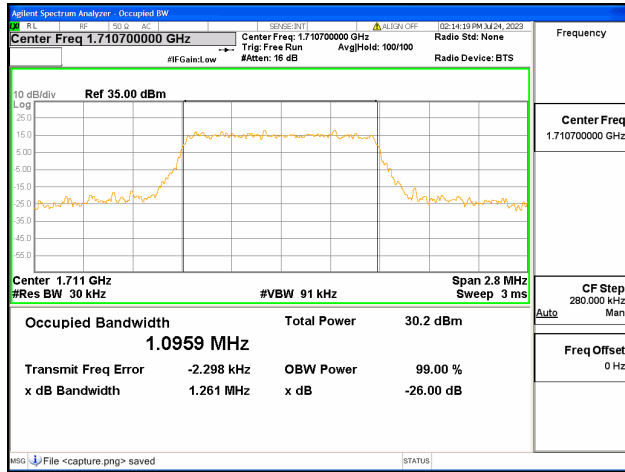
B2 / 20MHz / 16QAM/ Mid CH



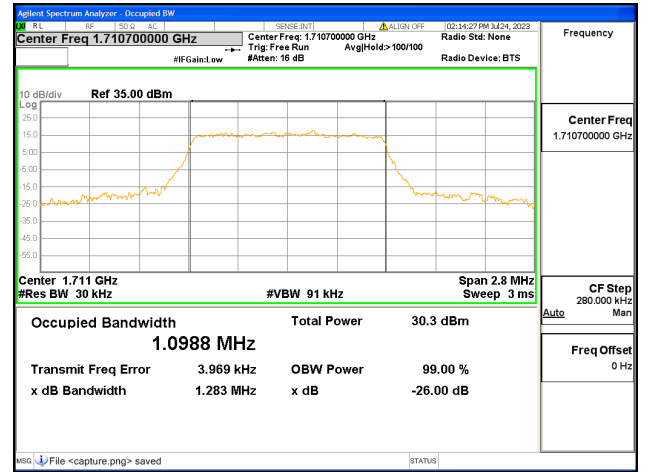
B2 / 20MHz / QPSK/ High CH



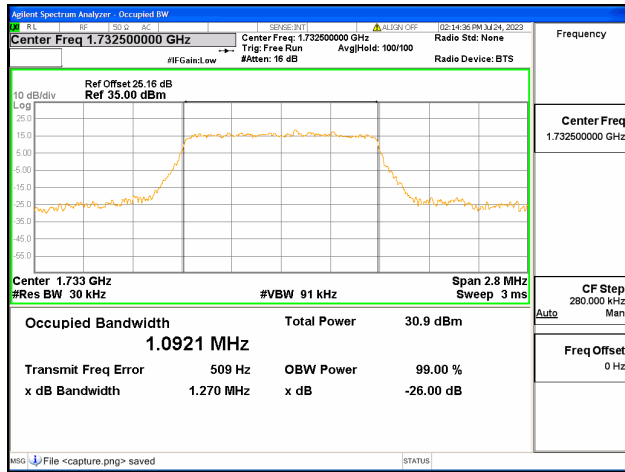
B2 / 20MHz / 16QAM/ High CH



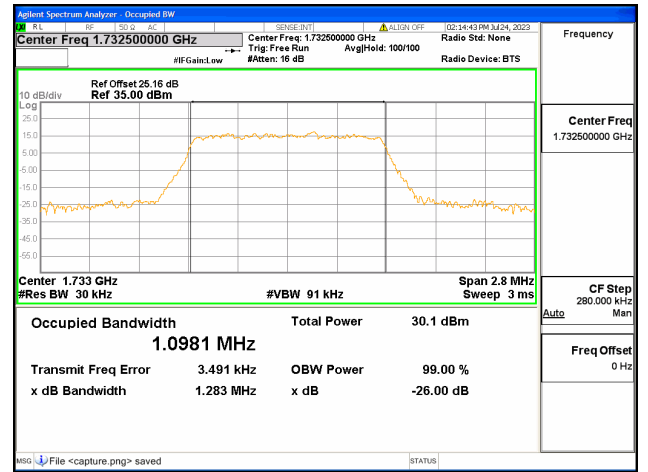
B4 / 1.4MHz / QPSK/ Low CH



B4 / 1.4MHz / 16QAM/ Low CH

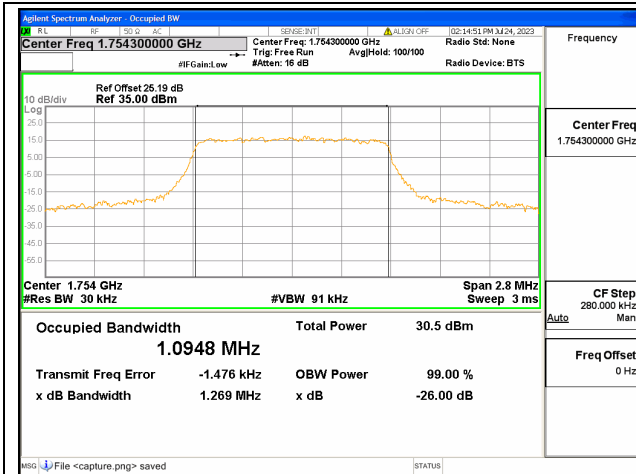


B4 / 1.4MHz / QPSK/ Mid CH

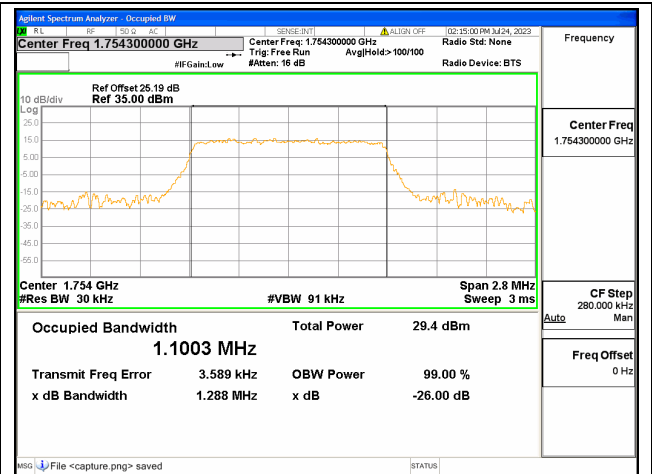


B4 / 1.4MHz / 16QAM/ Mid CH

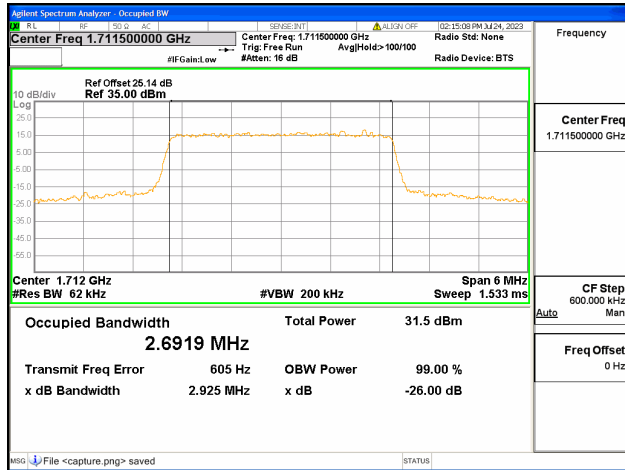




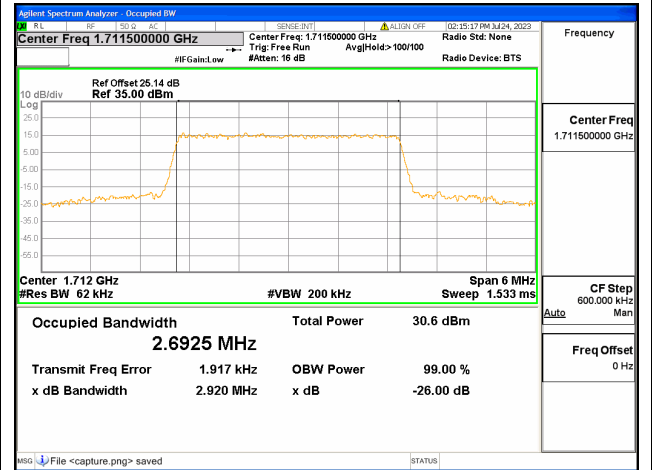
B4 / 1.4MHz / QPSK/ High CH



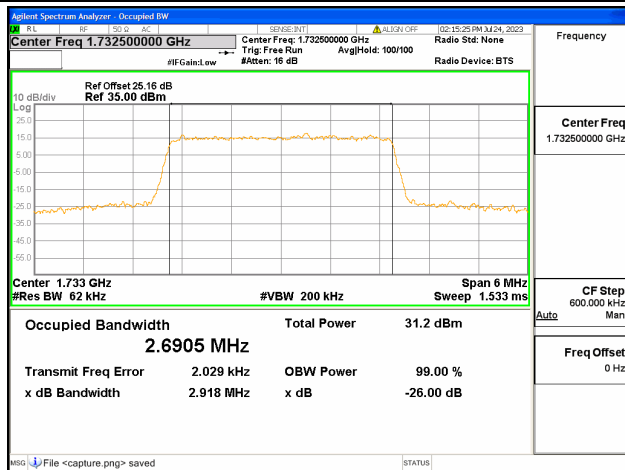
B4 / 1.4MHz / 16QAM/ High CH



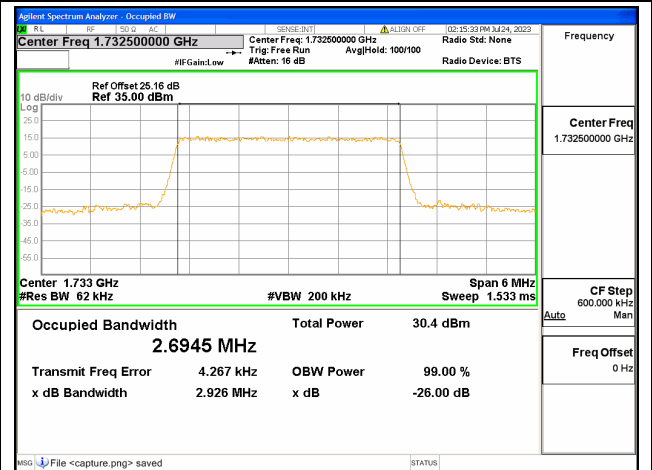
B4 / 3MHz / QPSK/ Low CH



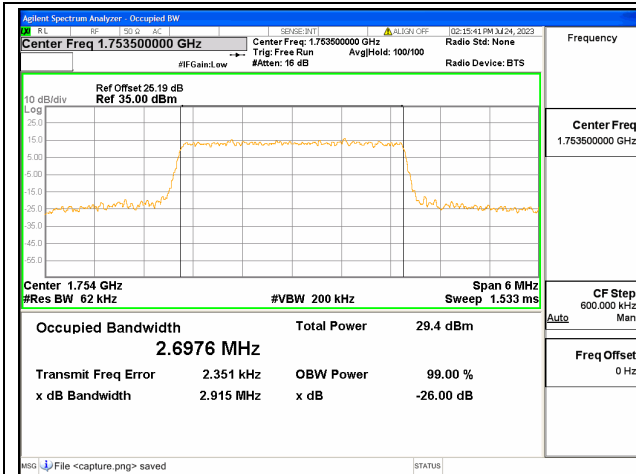
B4 / 3MHz / 16QAM/ Low CH



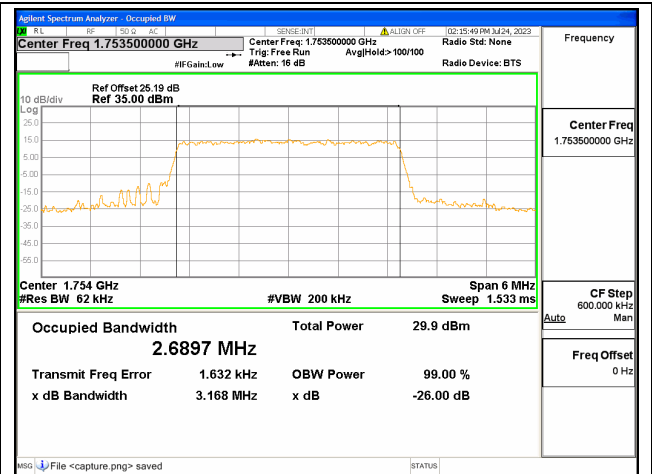
B4 / 3MHz / QPSK/ Mid CH



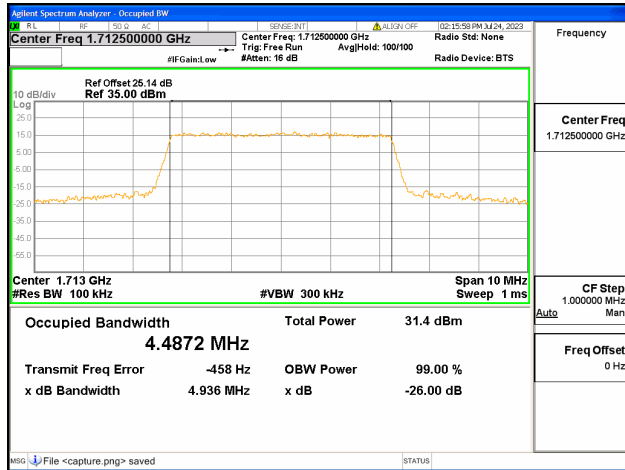
B4 / 3MHz / 16QAM/ Mid CH



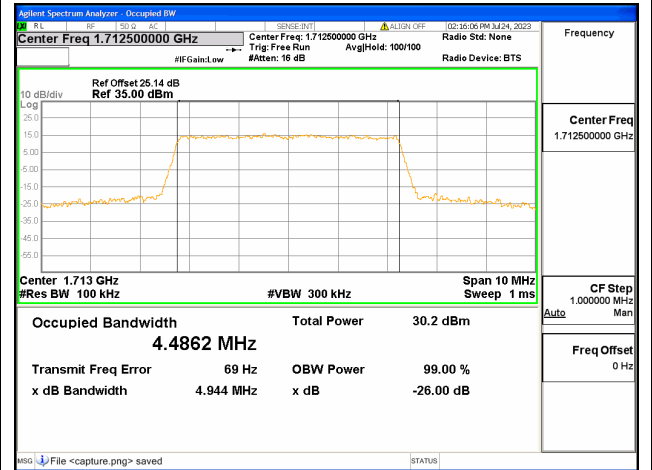
B4 / 3MHz / QPSK/ High CH



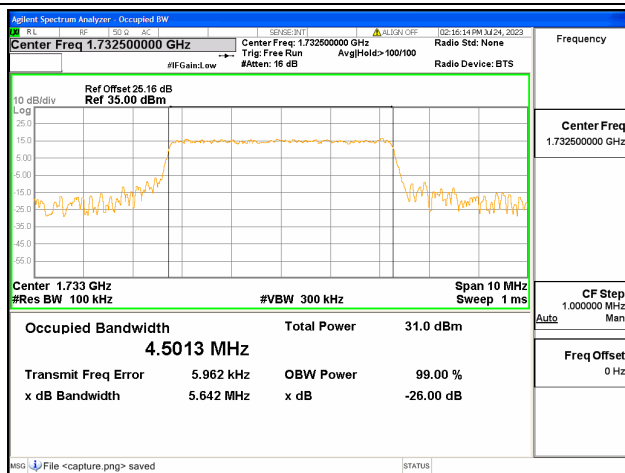
B4 / 3MHz / 16QAM/ High CH



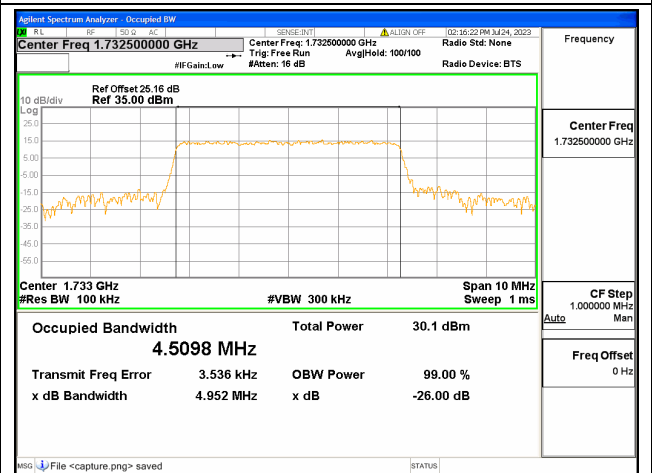
B4 / 5MHz / QPSK/ Low CH



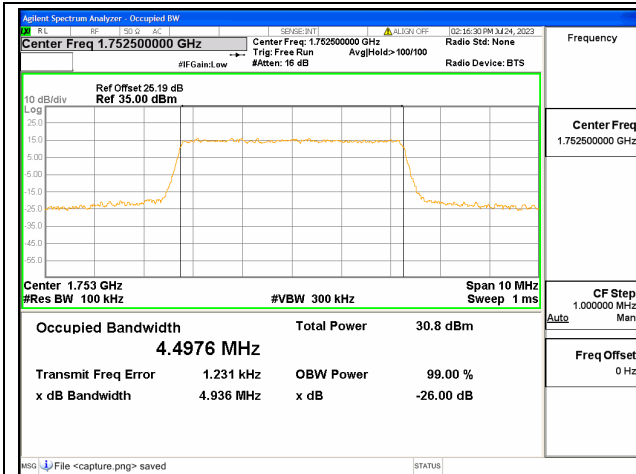
B4 / 5MHz / 16QAM/ Low CH



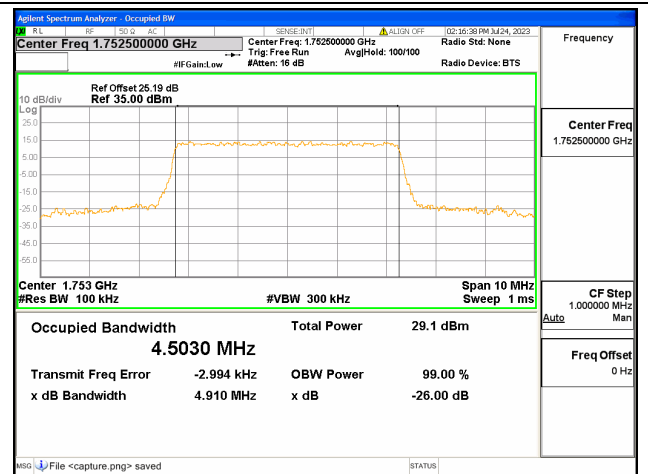
B4 / 5MHz / QPSK/ Mid CH



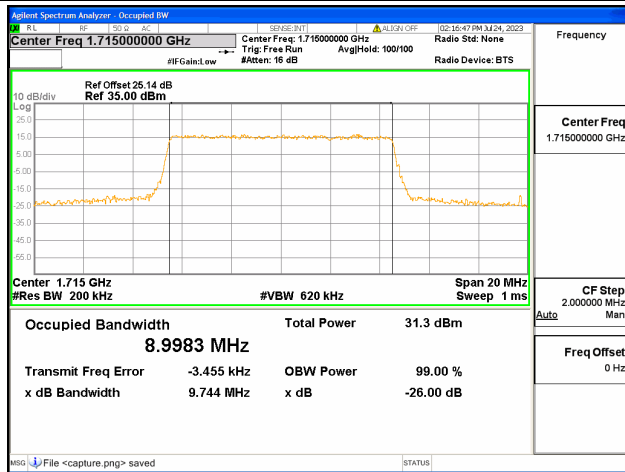
B4 / 5MHz / 16QAM/ Mid CH



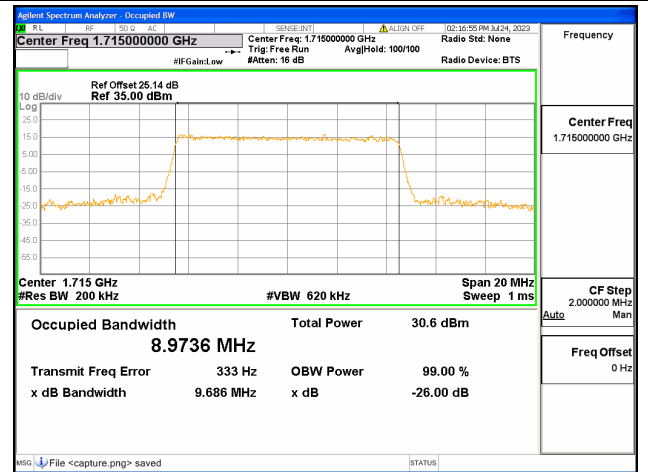
B4 / 5MHz / QPSK/ High CH



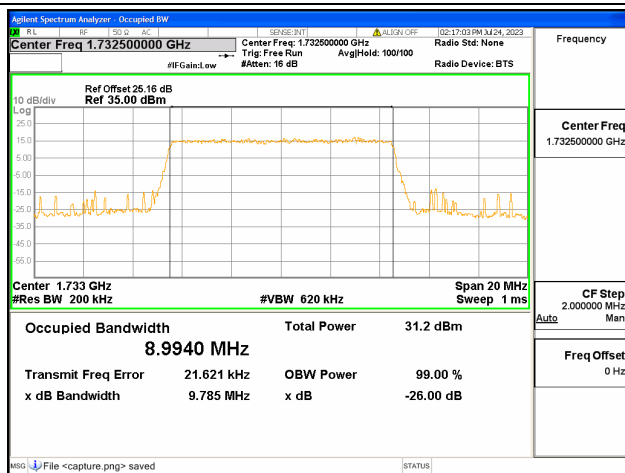
B4 / 5MHz / 16QAM/ High CH



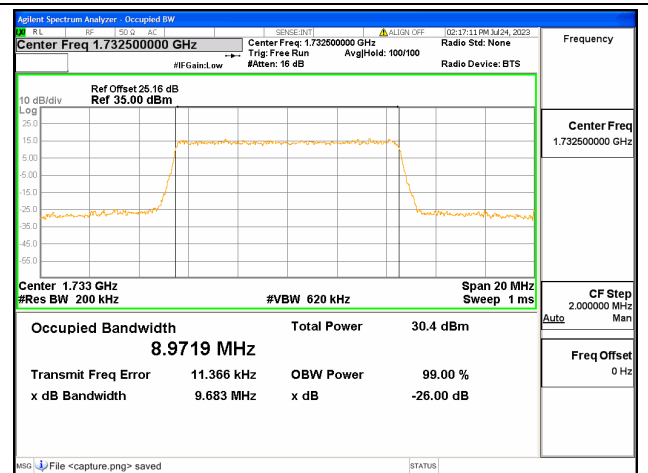
B4 / 10MHz / QPSK/ Low CH



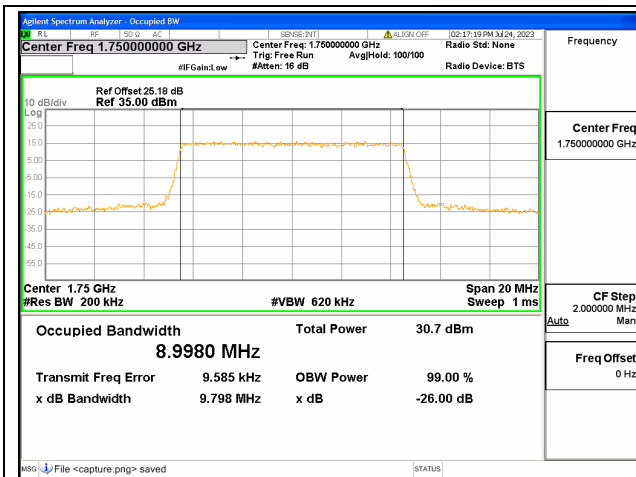
B4 / 10MHz / 16QAM/ Low CH



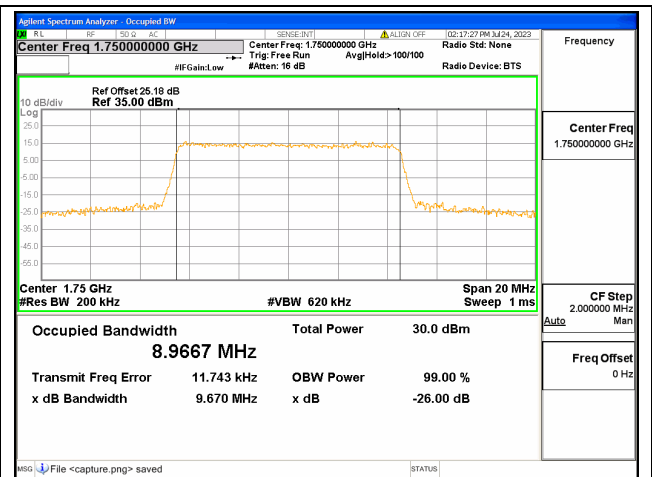
B4 / 10MHz / QPSK/ Mid CH



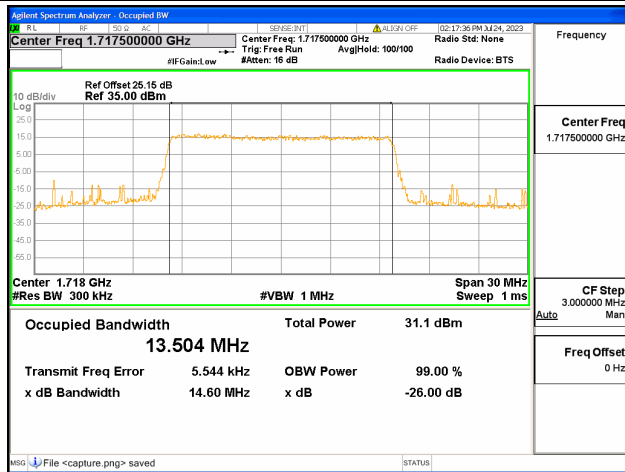
B4 / 10MHz / 16QAM/ Mid CH



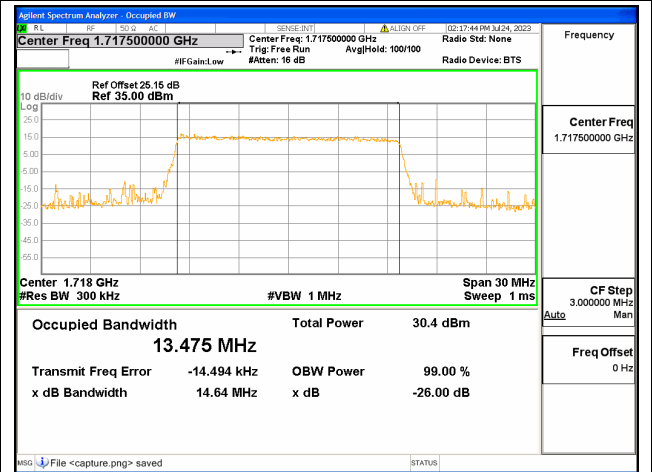
B4 / 10MHz / QPSK/ High CH



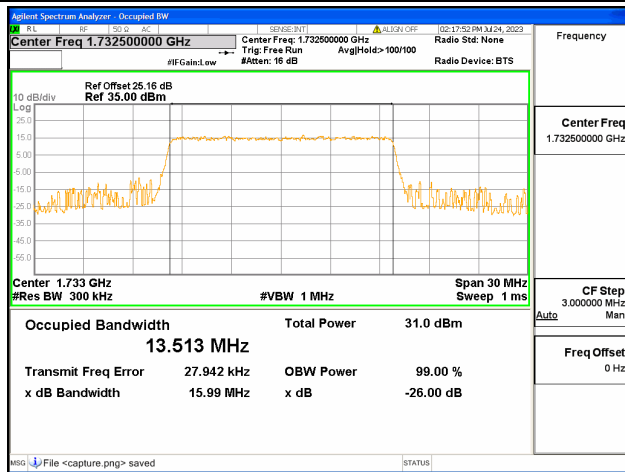
B4 / 10MHz / 16QAM/ High CH



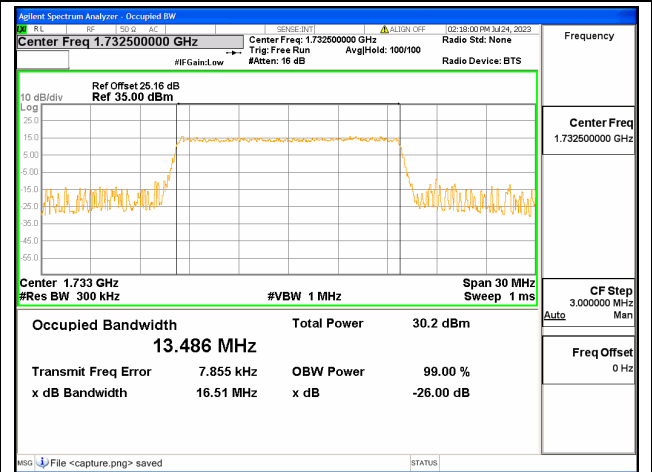
B4 / 15MHz / QPSK/ Low CH



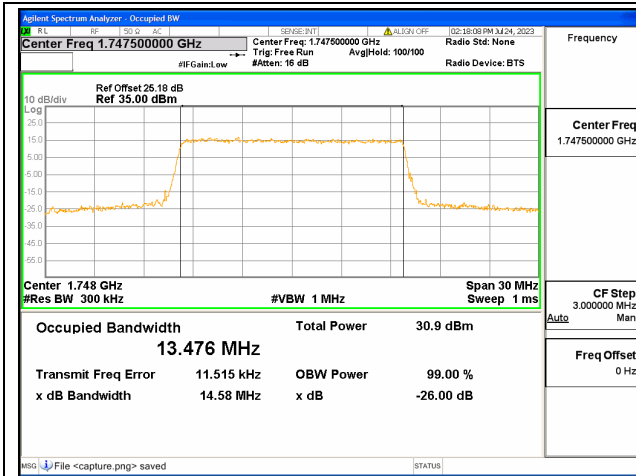
B4 / 15MHz / 16QAM/ Low CH



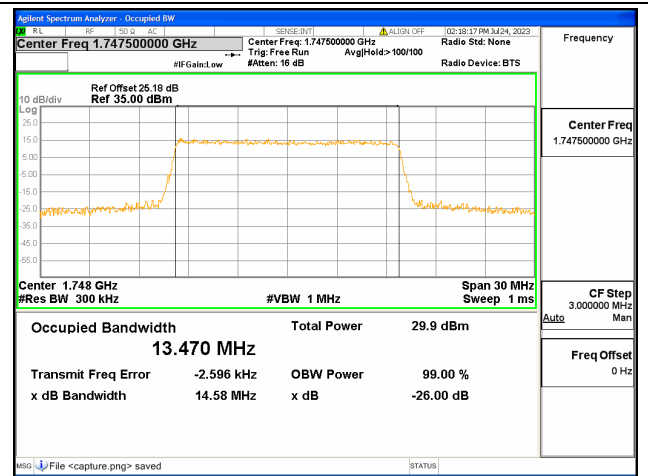
B4 / 15MHz / QPSK/ Mid CH



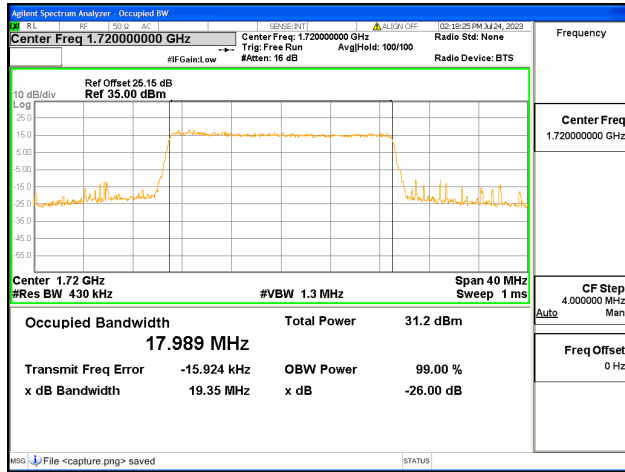
B4 / 15MHz / 16QAM/ Mid CH



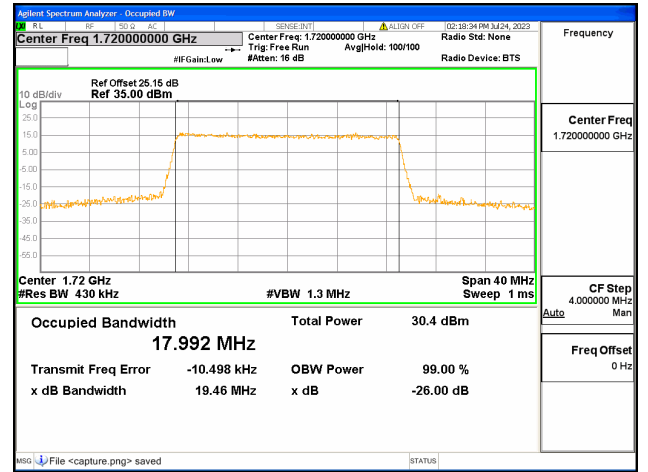
B4 / 15MHz / QPSK/ High CH



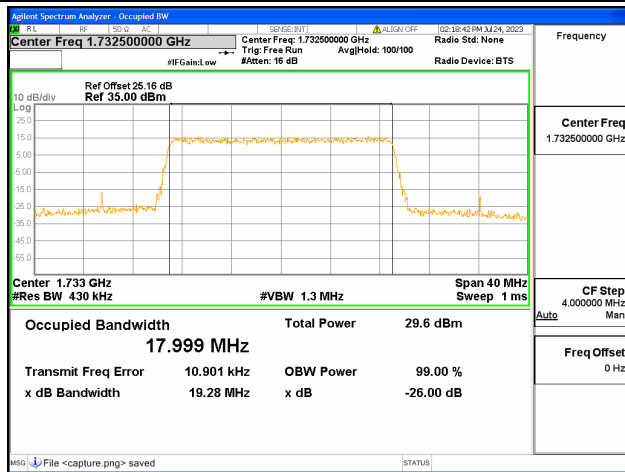
B4 / 15MHz / 16QAM/ High CH



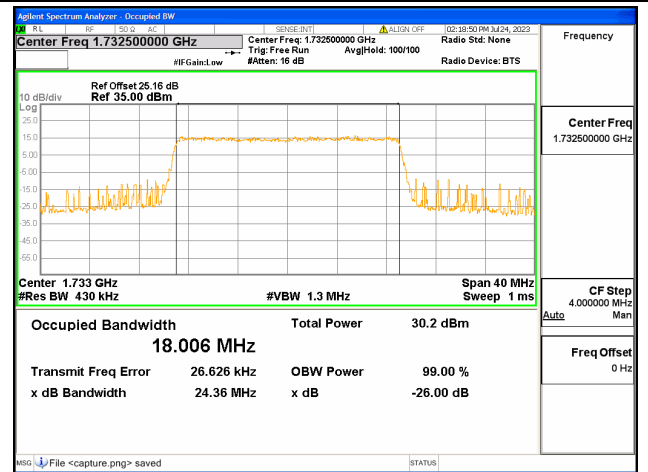
B4 / 20MHz / QPSK/ Low CH



B4 / 20MHz / 16QAM/ Low CH



B4 / 20MHz / QPSK/ Mid CH



B4 / 20MHz / 16QAM/ Mid CH