REPORT No.: SZ23020308W05

TEST REPORT

APPLICANT	:	BLU Products, Inc.
PRODUCT NAME	:	Smart Phone
MODEL NAME	:	G33
BRAND NAME	:	BLU
FCC ID	:	YHLBLUG33
STANDARD(S)	:	47 CFR Part 2 47 CFR Part 22, Subpart H 47 CFR Part 24, Subpart E 47 CFR Part 27, Subpart H&L&N
RECEIPT DATE	:	2023-03-27
TEST DATE	:	2023-03-29 to 2023-05-08
ISSUE DATE	:	2023-05-09

Edited by: Zeng Xiaoying (Rapporteur)

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DIRECTORY

Change History		
Version	Date	Reason for change
1.0	2023-05-09	First edition

1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

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

1.2. Equipment Under Test (EUT) Description

Product Name:	Smart Phone	
Sample No.:	6#	
Hardware Version:	A507-MB-V3.6D	
Software Version:	A507_29C_WS621A_SC9863A1_BLU_G0890_V13.0.G.01.00_GENERIC_16-03-2023	
Modulation Type:	QPSK, 16QAM	
Carrier Aggregation:	Not Support	
Operation Band:	Band 2 / 4 / 5 / 12 / 17 / 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 17	Tx: 704MHz - 716MHz
		Rx: 734MHz – 746MHz
	LTE Band 66	Tx: 1710MHz –1780MHz
		Rx: 2110MHz –2200MHz
	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 17	5 MHz, 10MHz
	LTE Band 66	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 71	5MHz, 10MHz, 15MHz, 20MHz
Antenna Type:	PIFA Antenna	
Antenna Gain:	LTE Band 2	-0.54dBi
	LTE Band 4	-0.53dBi
	LTE Band 5	-0.68dBi
	LTE Band 12	-0.45dBi
	LTE Band 17	-0.46dBi
	LTE Band 66	-0.53dBi
	LTE Band 71	-0.83dBi
Accessory Information:	Battery	
	Brand Name:	BLU
	Model No.:	C876540300L
	Serial No.:	N/A
	Capacity:	3000mAh
	Rated Voltage:	3.8V
	Charge Limit:	4.35V
	Manufacturer:	PHENIX NEW ENERGY(HUIZHOU)CO.,LTD.
	AC Adapter	
	Brand Name:	BLU
	Model No.:	US-JY-1000
	Serial No.:	N/A
	Rated Output:	5V⎓1000mA
	Rated Input:	100-240V~50/60Hz, 0.3A
	Manufacturer:	Dongguan Jieyuan Electronic Technology Co., Ltd.

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

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

LTE Band 2	Maximum E.R.P./E.I.R.P. (W)		Emission Designator (99%OBW)	
BW(MHz)	QPSK	16QAM	QPSK	16QAM
20	0.167	0.128	18M0G7D	18M1W7D
15	0.166	0.129	13M5G7D	13M5W7D
10	0.167	0.130	9M03G7D	8M98W7D
5	0.166	0.131	4M50G7D	4M51W7D
3	0.167	0.130	2M72G7D	2M72W7D
1.4	0.166	0.128	1M11G7D	1M10W7D
LTE Band 4	**Maximum E.R.P./E.I.R.P. (W)**		**Emission Designator (99%OBW)**	
BW(MHz)	QPSK	16QAM	QPSK	16QAM
20	0.164	0.132	18M1G7D	18M1W7D
15	0.163	0.131	13M5G7D	13M5W7D
10	0.163	0.128	9M02G7D	9M01W7D
5	0.163	0.128	4M50G7D	4M51W7D
3	0.162	0.131	2M72G7D	2M71W7D
1.4	0.161	0.130	1M10G7D	1M10W7D
LTE Band 5	**Maximum E.R.P./E.I.R.P. (W)**		**Emission Designator (99%OBW)**	
BW(MHz)	QPSK	16QAM	QPSK	16QAM
10	0.100	0.079	9M02G7D	8M98W7D
5	0.100	0.080	4M50G7D	4M51W7D
3	0.100	0.079	2M72G7D	2M73W7D
1.4	0.098	0.080	1M10G7D	1M10W7D
LTE Band 12	**Maximum E.R.P./E.I.R.P. (W)**		**Emission Designator (99%OBW)**	
BW(MHz)	QPSK	16QAM	QPSK	16QAM
10	0.105	0.083	9M03G7D	9M00W7D
5	0.104	0.085	4M50G7D	4M50W7D
3	0.104	0.083	2M73G7D	2M72W7D
1.4	0.104	0.083	1M10G7D	1M10W7D
LTE Band 17	**Maximum E.R.P./E.I.R.P. (W)**		**Emission Designator (99%OBW)**	
BW(MHz)	QPSK	16QAM	QPSK	16QAM
10	0.104	0.083	9M00G7D	8M96W7D
5	0.102	0.083	4M51G7D	4M51W7D

LTE Band 66	Maximum E.R.P./E.I.R.P. (W)		Emission Designator (99%OBW)	
BW(MHz)	QPSK	16QAM	QPSK	16QAM
20	0.168	0.130	18M0G7D	18M1W7D
15	0.167	0.131	13M5G7D	13M5W7D
10	0.167	0.130	9M02G7D	8M99W7D
5	0.166	0.131	4M51G7D	4M50W7D
3	0.166	0.131	2M72G7D	2M71W7D
1.4	0.167	0.131	1M10G7D	1M10W7D
LTE Band 71	**Maximum E.R.P./E.I.R.P. (W)**		**Emission Designator (99%OBW)**	
BW(MHz)	QPSK	16QAM	QPSK	16QAM
20	0.097	0.077	18M1G7D	18M0W7D
15	0.096	0.077	13M6G7D	13M6W7D
10	0.096	0.076	9M02G7D	8M98W7D
5	0.096	0.077	4M50G7D	4M50W7D

1.4. Test Standards and Results

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

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

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

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046 22.913(a)(2) 24.232(c) 27.50(b)(10) 27.50(c)(10) 27.50(d)(4)	Transmitter Conducted Output Power and E.R.P./E.I.R.P.	May 06, 2023	Shen Biaohong Li Huaijie	PASS	No deviation
2.1049	Occupied Bandwidth	Mar. 30, 2023	Li Huaijie	PASS	No deviation
2.1055 22.355 24.235 27.54	Frequency Stability	Apr. 10, 2023	Li Huaijie	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Mar. 30, 2023 Apr. 03, 2023	Li Huaijie	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(c)(2) 27.53(g) 27.53(h)	Conducted Spurious Emissions	Mar. 29, 2023	Li Huaijie	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(g)	Band Edge	Mar. 29, 2023	Li Huaijie	PASS	No deviation

27.53(h)					
2.1053 22.917(a) 24.238(a) 27.53(g) 27.53(h)	Radiated Spurious Emissions	Apr. 06, 2023	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 H&L&N Requirements

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

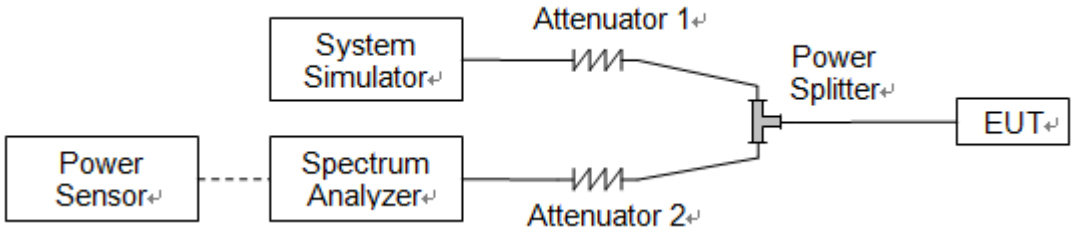
2.1.1. Requirement

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, 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	22.73	22.78	22.69
20	QPSK	1	49	22.61	22.71	22.58
20	QPSK	1	99	22.64	22.73	22.70
20	QPSK	50	0	21.51	21.58	21.53
20	QPSK	50	24	21.55	21.56	21.49
20	QPSK	50	50	21.48	21.52	21.53
20	QPSK	100	0	21.51	21.53	21.50
20	16QAM	1	0	21.58	21.61	21.53
20	16QAM	1	49	21.55	21.53	21.56
20	16QAM	1	99	21.21	21.56	21.52
20	16QAM	50	0	20.66	20.69	20.63
20	16QAM	50	24	20.64	20.63	20.59
20	16QAM	50	50	20.67	20.54	20.52
20	16QAM	100	0	20.59	20.58	20.55

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	22.73	22.75	22.67
15	QPSK	1	37	22.63	22.70	22.44
15	QPSK	1	74	22.60	22.64	22.58
15	QPSK	36	0	21.40	21.69	21.47
15	QPSK	36	20	21.68	21.37	21.44
15	QPSK	36	39	21.38	21.45	21.53
15	QPSK	75	0	21.43	21.49	21.44
15	16QAM	1	0	21.51	21.61	21.52
15	16QAM	1	37	21.56	21.49	21.60
15	16QAM	1	74	21.58	21.64	21.63
15	16QAM	36	0	20.55	20.83	20.77
15	16QAM	36	20	20.49	20.69	20.72
15	16QAM	36	39	20.68	20.69	20.52
15	16QAM	75	0	20.41	20.68	20.54

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	22.72	22.76	22.55
10	QPSK	1	25	22.61	22.72	22.51
10	QPSK	1	49	22.61	22.54	22.60
10	QPSK	25	0	21.64	21.63	21.41
10	QPSK	25	12	21.54	21.71	21.58
10	QPSK	25	25	21.60	21.50	21.59
10	QPSK	50	0	21.58	21.47	21.43
10	16QAM	1	0	21.54	21.65	21.66
10	16QAM	1	25	21.59	21.52	21.57
10	16QAM	1	49	21.53	21.69	21.41
10	16QAM	25	0	20.58	20.60	20.71
10	16QAM	25	12	20.65	20.56	20.49
10	16QAM	25	25	20.77	20.40	20.58
10	16QAM	50	0	20.56	20.71	20.51

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	22.58	22.72	22.61
5	QPSK	1	12	22.74	22.61	22.48
5	QPSK	1	24	22.46	22.56	22.64
5	QPSK	12	0	21.61	21.64	21.55
5	QPSK	12	7	21.67	21.69	21.63
5	QPSK	12	13	21.59	21.65	21.45
5	QPSK	25	0	21.42	21.34	21.55
5	16QAM	1	0	21.72	21.56	21.64
5	16QAM	1	12	21.52	21.49	21.55
5	16QAM	1	24	21.57	21.67	21.45
5	16QAM	12	0	20.60	20.54	20.53
5	16QAM	12	7	20.49	20.48	20.59
5	16QAM	12	13	20.70	20.48	20.66
5	16QAM	25	0	20.43	20.53	20.46

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	22.56	22.76	22.72
3	QPSK	1	8	22.57	22.59	22.59
3	QPSK	1	14	22.67	22.71	22.72
3	QPSK	8	0	21.40	21.48	21.46
3	QPSK	8	4	21.49	21.56	21.59
3	QPSK	8	7	21.58	21.41	21.42
3	QPSK	15	0	21.44	21.55	21.53
3	16QAM	1	0	21.69	21.68	21.59
3	16QAM	1	8	21.56	21.55	21.65
3	16QAM	1	14	21.60	21.41	21.51
3	16QAM	8	0	20.59	20.76	20.59
3	16QAM	8	4	20.54	20.55	20.56
3	16QAM	8	7	20.60	20.45	20.51
3	16QAM	15	0	20.60	20.64	20.45

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	22.74	22.75	22.62
1.4	QPSK	1	3	22.69	22.53	22.53
1.4	QPSK	1	5	22.68	22.60	22.70
1.4	QPSK	3	0	21.66	21.64	21.59
1.4	QPSK	3	1	21.60	21.57	21.51
1.4	QPSK	3	3	21.56	21.61	21.54
1.4	QPSK	6	0	21.31	21.53	21.44
1.4	16QAM	1	0	21.51	21.61	21.59
1.4	16QAM	1	3	21.36	21.41	21.54
1.4	16QAM	1	5	21.33	21.47	21.55
1.4	16QAM	3	0	20.73	20.55	20.70
1.4	16QAM	3	1	20.60	20.78	20.50
1.4	16QAM	3	3	20.71	20.68	20.50
1.4	16QAM	6	0	20.60	20.43	20.58

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	22.66	22.68	22.59
20	QPSK	1	49	22.51	22.65	22.39
20	QPSK	1	99	22.61	22.55	22.59
20	QPSK	50	0	21.53	21.73	21.46
20	QPSK	50	24	21.64	21.68	21.46
20	QPSK	50	50	21.58	21.49	21.54
20	QPSK	100	0	21.48	21.68	21.64
20	16QAM	1	0	21.73	21.74	21.52
20	16QAM	1	49	21.64	21.47	21.55
20	16QAM	1	99	21.49	21.44	21.55
20	16QAM	50	0	20.56	20.72	20.46
20	16QAM	50	24	20.50	20.77	20.67
20	16QAM	50	50	20.53	20.54	20.44
20	16QAM	100	0	20.68	20.67	20.68

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	22.65	22.65	22.53
15	QPSK	1	37	22.58	22.64	22.48
15	QPSK	1	74	22.59	22.57	22.56
15	QPSK	36	0	21.61	21.59	21.53
15	QPSK	36	20	21.36	21.64	21.64
15	QPSK	36	39	21.61	21.47	21.55
15	QPSK	75	0	21.34	21.33	21.46
15	16QAM	1	0	21.59	21.55	21.59
15	16QAM	1	37	21.58	21.43	21.39
15	16QAM	1	74	21.32	21.69	21.36
15	16QAM	36	0	20.63	20.80	20.52
15	16QAM	36	20	20.72	20.60	20.71
15	16QAM	36	39	20.79	20.54	20.50
15	16QAM	75	0	20.49	20.52	20.60

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	22.60	22.66	22.61
10	QPSK	1	25	22.65	22.64	22.66
10	QPSK	1	49	22.57	22.62	22.58
10	QPSK	25	0	21.32	21.57	21.33
10	QPSK	25	12	21.45	21.53	21.29
10	QPSK	25	25	21.50	21.37	21.60
10	QPSK	50	0	21.37	21.39	21.50
10	16QAM	1	0	21.59	21.41	21.35
10	16QAM	1	25	21.36	21.49	21.41
10	16QAM	1	49	21.33	21.36	21.42
10	16QAM	25	0	20.49	20.69	20.57
10	16QAM	25	12	20.55	20.69	20.56
10	16QAM	25	25	20.53	20.53	20.45
10	16QAM	50	0	20.53	20.68	20.68

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	22.55	22.64	22.53
5	QPSK	1	12	22.55	22.56	22.52
5	QPSK	1	24	22.59	22.62	22.58
5	QPSK	12	0	21.36	21.54	21.41
5	QPSK	12	7	21.68	21.40	21.60
5	QPSK	12	13	21.62	21.50	21.65
5	QPSK	25	0	21.62	21.64	21.50
5	16QAM	1	0	21.51	21.57	21.36
5	16QAM	1	12	21.40	21.42	21.59
5	16QAM	1	24	21.34	21.41	21.42
5	16QAM	12	0	20.75	20.61	20.69
5	16QAM	12	7	20.78	20.75	20.46
5	16QAM	12	13	20.57	20.51	20.55
5	16QAM	25	0	20.66	20.58	20.64

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	22.54	22.63	22.60
3	QPSK	1	8	22.62	22.54	22.43
3	QPSK	1	14	22.58	22.55	22.57
3	QPSK	8	0	21.40	21.72	21.65
3	QPSK	8	4	21.70	21.44	21.59
3	QPSK	8	7	21.41	21.33	21.54
3	QPSK	15	0	21.41	21.42	21.40
3	16QAM	1	0	21.44	21.68	21.34
3	16QAM	1	8	21.61	21.56	21.71
3	16QAM	1	14	21.52	21.61	21.49
3	16QAM	8	0	20.55	20.54	20.69
3	16QAM	8	4	20.46	20.72	20.40
3	16QAM	8	7	20.51	20.51	20.43
3	16QAM	15	0	20.48	20.71	20.66

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	22.57	22.61	22.56
1.4	QPSK	1	3	22.53	22.54	22.51
1.4	QPSK	1	5	22.56	22.55	22.56
1.4	QPSK	3	0	21.56	21.58	21.56
1.4	QPSK	3	1	21.55	21.65	21.60
1.4	QPSK	3	3	21.56	21.62	21.53
1.4	QPSK	6	0	21.53	21.68	21.35
1.4	16QAM	1	0	21.54	21.58	21.46
1.4	16QAM	1	3	21.66	21.65	21.67
1.4	16QAM	1	5	21.28	21.38	21.48
1.4	16QAM	3	0	20.56	20.52	20.58
1.4	16QAM	3	1	20.65	20.53	20.59
1.4	16QAM	3	3	20.78	20.63	20.63
1.4	16QAM	6	0	20.53	20.71	20.48

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	22.79	22.83	22.64
10	QPSK	1	25	22.64	22.69	22.65
10	QPSK	1	49	22.57	22.71	22.58
10	QPSK	25	0	21.71	21.84	21.72
10	QPSK	25	12	21.64	21.80	21.70
10	QPSK	25	25	21.61	21.77	21.60
10	QPSK	50	0	21.57	21.73	21.61
10	16QAM	1	0	21.80	21.66	21.78
10	16QAM	1	25	21.74	21.64	21.64
10	16QAM	1	49	21.59	21.55	21.52
10	16QAM	25	0	20.85	20.83	20.92
10	16QAM	25	12	20.72	20.60	20.81
10	16QAM	25	25	20.75	20.65	20.64
10	16QAM	50	0	20.85	20.82	20.77

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	22.79	22.80	22.78
5	QPSK	1	12	22.81	22.66	22.57
5	QPSK	1	24	22.61	22.68	22.70
5	QPSK	12	0	21.53	21.69	21.59
5	QPSK	12	7	21.76	21.86	21.78
5	QPSK	12	13	21.73	21.71	21.48
5	QPSK	25	0	21.65	21.74	21.71
5	16QAM	1	0	21.61	21.62	21.82
5	16QAM	1	12	21.81	21.57	21.63
5	16QAM	1	24	21.57	21.84	21.57
5	16QAM	12	0	20.79	20.86	20.70
5	16QAM	12	7	20.73	20.74	20.63
5	16QAM	12	13	20.76	20.73	20.74
5	16QAM	25	0	20.77	20.70	20.58

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	22.76	22.81	22.77
3	QPSK	1	8	22.80	22.60	22.81
3	QPSK	1	14	22.74	22.78	22.67
3	QPSK	8	0	21.65	21.88	21.76
3	QPSK	8	4	21.74	21.68	21.68
3	QPSK	8	7	21.60	21.50	21.83
3	QPSK	15	0	21.71	21.67	21.49
3	16QAM	1	0	21.69	21.60	21.54
3	16QAM	1	8	21.71	21.83	21.82
3	16QAM	1	14	21.47	21.59	21.80
3	16QAM	8	0	20.96	20.81	20.73
3	16QAM	8	4	20.91	20.92	20.59
3	16QAM	8	7	20.94	20.56	20.68
3	16QAM	15	0	20.65	20.69	20.61

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	22.73	22.76	22.68
1.4	QPSK	1	3	22.72	22.75	22.74
1.4	QPSK	1	5	22.66	22.62	22.57
1.4	QPSK	3	0	21.59	21.84	21.81
1.4	QPSK	3	1	21.75	21.69	21.70
1.4	QPSK	3	3	21.70	21.81	21.59
1.4	QPSK	6	0	21.70	21.52	21.50
1.4	16QAM	1	0	21.55	21.85	21.61
1.4	16QAM	1	3	21.59	21.53	21.55
1.4	16QAM	1	5	21.48	21.69	21.49
1.4	16QAM	3	0	20.91	20.91	20.61
1.4	16QAM	3	1	20.88	20.80	20.84
1.4	16QAM	3	3	20.92	20.78	20.54
1.4	16QAM	6	0	20.85	20.59	20.53

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	22.75	22.80	22.68
10	QPSK	1	25	22.68	22.71	22.53
10	QPSK	1	49	22.72	22.75	22.75
10	QPSK	25	0	21.74	21.55	21.51
10	QPSK	25	12	21.74	21.59	21.70
10	QPSK	25	25	21.61	21.64	21.68
10	QPSK	50	0	21.66	21.48	21.79
10	16QAM	1	0	21.68	21.63	21.77
10	16QAM	1	25	21.61	21.57	21.61
10	16QAM	1	49	21.54	21.64	21.50
10	16QAM	25	0	20.81	20.83	20.81
10	16QAM	25	12	20.73	20.84	20.86
10	16QAM	25	25	20.63	20.80	20.48
10	16QAM	50	0	20.88	20.56	20.70

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	22.57	22.77	22.70
5	QPSK	1	12	22.71	22.67	22.73
5	QPSK	1	24	22.66	22.61	22.64
5	QPSK	12	0	21.66	21.85	21.74
5	QPSK	12	7	21.68	21.52	21.61
5	QPSK	12	13	21.73	21.77	21.59
5	QPSK	25	0	21.81	21.82	21.52
5	16QAM	1	0	21.87	21.81	21.81
5	16QAM	1	12	21.60	21.77	21.77
5	16QAM	1	24	21.56	21.70	21.77
5	16QAM	12	0	20.66	20.97	20.62
5	16QAM	12	7	20.87	20.65	20.72
5	16QAM	12	13	20.91	20.70	20.64
5	16QAM	25	0	20.56	20.72	20.58

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	22.63	22.79	22.65
3	QPSK	1	8	22.68	22.64	22.75
3	QPSK	1	14	22.74	22.65	22.79
3	QPSK	8	0	21.52	21.65	21.57
3	QPSK	8	4	21.77	21.78	21.66
3	QPSK	8	7	21.66	21.82	21.71
3	QPSK	15	0	21.70	21.77	21.45
3	16QAM	1	0	21.80	21.80	21.68
3	16QAM	1	8	21.78	21.68	21.75
3	16QAM	1	14	21.61	21.69	21.63
3	16QAM	8	0	20.92	20.94	20.90
3	16QAM	8	4	20.60	20.79	20.67
3	16QAM	8	7	20.73	20.82	20.47
3	16QAM	15	0	20.56	20.58	20.63

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	22.74	22.76	22.74
1.4	QPSK	1	3	22.58	22.72	22.64
1.4	QPSK	1	5	22.66	22.62	22.61
1.4	QPSK	3	0	21.52	21.77	21.69
1.4	QPSK	3	1	21.56	21.69	21.66
1.4	QPSK	3	3	21.59	21.60	21.57
1.4	QPSK	6	0	21.58	21.52	21.64
1.4	16QAM	1	0	21.56	21.63	21.63
1.4	16QAM	1	3	21.76	21.79	21.78
1.4	16QAM	1	5	21.59	21.77	21.64
1.4	16QAM	3	0	20.62	20.72	20.71
1.4	16QAM	3	1	20.60	20.68	20.87
1.4	16QAM	3	3	20.85	20.65	20.59
1.4	16QAM	6	0	20.62	20.85	20.67

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	22.73	22.76	22.58
10	QPSK	1	25	22.64	22.60	22.65
10	QPSK	1	49	22.64	22.59	22.74
10	QPSK	25	0	21.70	21.79	21.54
10	QPSK	25	12	21.77	21.72	21.44
10	QPSK	25	25	21.67	21.59	21.65
10	QPSK	50	0	21.54	21.64	21.56
10	16QAM	1	0	21.70	21.77	21.74
10	16QAM	1	25	21.59	21.80	21.73
10	16QAM	1	49	21.53	21.51	21.53
10	16QAM	25	0	20.96	20.68	20.82
10	16QAM	25	12	20.77	20.60	20.71
10	16QAM	25	25	20.75	20.53	20.54
10	16QAM	50	0	20.77	20.87	20.77

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	22.62	22.70	22.66
5	QPSK	1	12	22.68	22.67	22.67
5	QPSK	1	24	22.62	22.58	22.70
5	QPSK	12	0	21.70	21.54	21.63
5	QPSK	12	7	21.75	21.57	21.45
5	QPSK	12	13	21.62	21.57	21.54
5	QPSK	25	0	21.67	21.54	21.54
5	16QAM	1	0	21.78	21.80	21.71
5	16QAM	1	12	21.65	21.49	21.66
5	16QAM	1	24	21.65	21.67	21.74
5	16QAM	12	0	20.76	20.71	20.63
5	16QAM	12	7	20.87	20.62	20.64
5	16QAM	12	13	20.73	20.84	20.52
5	16QAM	25	0	20.76	20.78	20.69

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	22.70	22.79	22.61
20	QPSK	1	49	22.49	22.73	22.71
20	QPSK	1	99	22.64	22.60	22.60
20	QPSK	50	0	21.59	21.84	21.53
20	QPSK	50	24	21.60	21.62	21.60
20	QPSK	50	50	21.53	21.51	21.39
20	QPSK	100	0	21.54	21.65	21.55
20	16QAM	1	0	21.68	21.63	21.63
20	16QAM	1	49	21.39	21.51	21.64
20	16QAM	1	99	21.29	21.43	21.66
20	16QAM	50	0	20.80	20.80	20.74
20	16QAM	50	24	20.58	20.61	20.49
20	16QAM	50	50	20.54	20.55	20.57
20	16QAM	100	0	20.68	20.56	20.59

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	22.56	22.75	22.56
15	QPSK	1	37	22.53	22.74	22.66
15	QPSK	1	74	22.62	22.57	22.63
15	QPSK	36	0	21.35	21.74	21.57
15	QPSK	36	20	21.45	21.49	21.51
15	QPSK	36	39	21.35	21.67	21.50
15	QPSK	75	0	21.49	21.49	21.35
15	16QAM	1	0	21.70	21.45	21.51
15	16QAM	1	37	21.45	21.59	21.48
15	16QAM	1	74	21.34	21.71	21.47
15	16QAM	36	0	20.77	20.77	20.59
15	16QAM	36	20	20.74	20.73	20.41
15	16QAM	36	39	20.59	20.61	20.37
15	16QAM	75	0	20.56	20.43	20.55

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	22.60	22.76	22.59
10	QPSK	1	25	22.59	22.76	22.49
10	QPSK	1	49	22.49	22.67	22.68
10	QPSK	25	0	21.43	21.50	21.52
10	QPSK	25	12	21.35	21.65	21.59
10	QPSK	25	25	21.57	21.51	21.53
10	QPSK	50	0	21.50	21.50	21.57
10	16QAM	1	0	21.56	21.66	21.60
10	16QAM	1	25	21.57	21.43	21.66
10	16QAM	1	49	21.53	21.56	21.37
10	16QAM	25	0	20.47	20.59	20.49
10	16QAM	25	12	20.57	20.44	20.51
10	16QAM	25	25	20.76	20.69	20.59
10	16QAM	50	0	20.54	20.57	20.49

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	22.69	22.73	22.68
5	QPSK	1	12	22.55	22.62	22.72
5	QPSK	1	24	22.65	22.72	22.53
5	QPSK	12	0	21.54	21.43	21.55
5	QPSK	12	7	21.44	21.66	21.49
5	QPSK	12	13	21.51	21.55	21.39
5	QPSK	25	0	21.60	21.34	21.52
5	16QAM	1	0	21.66	21.70	21.46
5	16QAM	1	12	21.70	21.54	21.43
5	16QAM	1	24	21.61	21.55	21.44
5	16QAM	12	0	20.56	20.73	20.52
5	16QAM	12	7	20.75	20.48	20.63
5	16QAM	12	13	20.75	20.66	20.44
5	16QAM	25	0	20.64	20.63	20.39

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	22.56	22.74	22.54
3	QPSK	1	8	22.48	22.60	22.65
3	QPSK	1	14	22.69	22.66	22.63
3	QPSK	8	0	21.48	21.54	21.55
3	QPSK	8	4	21.45	21.38	21.30
3	QPSK	8	7	21.52	21.38	21.49
3	QPSK	15	0	21.42	21.66	21.46
3	16QAM	1	0	21.58	21.70	21.56
3	16QAM	1	8	21.42	21.66	21.54
3	16QAM	1	14	21.32	21.66	21.55
3	16QAM	8	0	20.68	20.62	20.60
3	16QAM	8	4	20.51	20.72	20.66
3	16QAM	8	7	20.59	20.58	20.34
3	16QAM	15	0	20.59	20.73	20.41

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	22.65	22.75	22.66
1.4	QPSK	1	3	22.41	22.54	22.67
1.4	QPSK	1	5	22.71	22.63	22.66
1.4	QPSK	3	0	21.59	21.65	21.56
1.4	QPSK	3	1	21.70	21.55	21.55
1.4	QPSK	3	3	21.58	21.66	21.66
1.4	QPSK	6	0	21.65	21.61	21.43
1.4	16QAM	1	0	21.71	21.61	21.64
1.4	16QAM	1	3	21.35	21.40	21.69
1.4	16QAM	1	5	21.36	21.68	21.48
1.4	16QAM	3	0	20.71	20.68	20.60
1.4	16QAM	3	1	20.53	20.75	20.73
1.4	16QAM	3	3	20.53	20.59	20.51
1.4	16QAM	6	0	20.49	20.45	20.52

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				133222	133322	133372
Frequency (MHz)				673	683	688
20	QPSK	1	0	22.75	22.86	22.67
20	QPSK	1	49	22.66	22.72	22.53
20	QPSK	1	99	22.61	22.81	22.78
20	QPSK	50	0	21.67	21.88	21.82
20	QPSK	50	24	21.69	21.77	21.78
20	QPSK	50	50	21.47	21.82	21.50
20	QPSK	100	0	21.81	21.56	21.58
20	16QAM	1	0	21.71	21.67	21.61
20	16QAM	1	49	21.50	21.83	21.74
20	16QAM	1	99	21.61	21.53	21.49
20	16QAM	50	0	20.65	20.74	20.88
20	16QAM	50	24	20.82	20.86	20.63
20	16QAM	50	50	20.63	20.53	20.50
20	16QAM	100	0	20.59	20.58	20.74

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	22.79	22.82	22.68
15	QPSK	1	37	22.79	22.75	22.55
15	QPSK	1	74	22.78	22.73	22.81
15	QPSK	36	0	21.77	21.79	21.82
15	QPSK	36	20	21.66	21.65	21.75
15	QPSK	36	39	21.70	21.81	21.56
15	QPSK	75	0	21.50	21.83	21.74
15	16QAM	1	0	21.84	21.71	21.74
15	16QAM	1	37	21.50	21.61	21.75
15	16QAM	1	74	21.62	21.71	21.50
15	16QAM	36	0	20.94	20.95	20.79
15	16QAM	36	20	20.85	20.91	20.63
15	16QAM	36	39	20.85	20.80	20.68
15	16QAM	75	0	20.56	20.62	20.77

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	22.74	22.79	22.68
10	QPSK	1	25	22.79	22.60	22.56
10	QPSK	1	49	22.64	22.71	22.59
10	QPSK	25	0	21.55	21.64	21.59
10	QPSK	25	12	21.53	21.70	21.68
10	QPSK	25	25	21.47	21.59	21.62
10	QPSK	50	0	21.75	21.83	21.46
10	16QAM	1	0	21.56	21.76	21.66
10	16QAM	1	25	21.57	21.61	21.78
10	16QAM	1	49	21.35	21.60	21.63
10	16QAM	25	0	20.71	20.72	20.65
10	16QAM	25	12	20.71	20.60	20.73
10	16QAM	25	25	20.91	20.82	20.78
10	16QAM	50	0	20.86	20.54	20.53

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	22.75	22.81	22.67
5	QPSK	1	12	22.66	22.67	22.54
5	QPSK	1	24	22.71	22.63	22.68
5	QPSK	12	0	21.75	21.53	21.53
5	QPSK	12	7	21.72	21.85	21.55
5	QPSK	12	13	21.60	21.59	21.78
5	QPSK	25	0	21.50	21.67	21.62
5	16QAM	1	0	21.83	21.83	21.64
5	16QAM	1	12	21.62	21.83	21.80
5	16QAM	1	24	21.43	21.54	21.57
5	16QAM	12	0	20.78	20.98	20.79
5	16QAM	12	7	20.68	20.60	20.55
5	16QAM	12	13	20.97	20.53	20.67
5	16QAM	25	0	20.56	20.79	20.60

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	22.19	0.166	22.24	0.167	22.15	0.164
20	QPSK	1	49	22.07	0.161	22.17	0.165	22.04	0.160
20	QPSK	1	99	22.10	0.162	22.19	0.166	22.16	0.164
20	QPSK	50	0	20.97	0.125	21.04	0.127	20.99	0.126
20	QPSK	50	24	21.01	0.126	21.02	0.126	20.95	0.124
20	QPSK	50	50	20.94	0.124	20.98	0.125	20.99	0.126
20	QPSK	100	0	20.97	0.125	20.99	0.126	20.96	0.125
20	16QAM	1	0	21.04	0.127	21.07	0.128	20.99	0.126
20	16QAM	1	49	21.01	0.126	20.99	0.126	21.02	0.126
20	16QAM	1	99	20.67	0.117	21.02	0.126	20.98	0.125
20	16QAM	50	0	20.12	0.103	20.15	0.104	20.09	0.102
20	16QAM	50	24	20.10	0.102	20.09	0.102	20.05	0.101
20	16QAM	50	50	20.13	0.103	20.00	0.100	19.98	0.100
20	16QAM	100	0	20.05	0.101	20.04	0.101	20.01	0.100

LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18675		18900		19125	
Frequency (MHz)				1857.5		1880		1902.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	22.19	0.166	22.21	0.166	22.13	0.163
15	QPSK	1	37	22.09	0.162	22.16	0.164	21.90	0.155
15	QPSK	1	74	22.06	0.161	22.10	0.162	22.04	0.160
15	QPSK	36	0	20.86	0.122	21.15	0.130	20.93	0.124
15	QPSK	36	20	21.14	0.130	20.83	0.121	20.90	0.123
15	QPSK	36	39	20.84	0.121	20.91	0.123	20.99	0.126
15	QPSK	75	0	20.89	0.123	20.95	0.124	20.90	0.123
15	16QAM	1	0	20.97	0.125	21.07	0.128	20.98	0.125
15	16QAM	1	37	21.02	0.126	20.95	0.124	21.06	0.128
15	16QAM	1	74	21.04	0.127	21.10	0.129	21.09	0.129
15	16QAM	36	0	20.01	0.100	20.29	0.107	20.23	0.105
15	16QAM	36	20	19.95	0.099	20.15	0.104	20.18	0.104
15	16QAM	36	39	20.14	0.103	20.15	0.104	19.98	0.100
15	16QAM	75	0	19.87	0.097	20.14	0.103	20.00	0.100

LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18650		18900		19150	
Frequency (MHz)				1855		1880		1905	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	22.18	0.165	22.22	0.167	22.01	0.159
10	QPSK	1	25	22.07	0.161	22.18	0.165	21.97	0.157
10	QPSK	1	49	22.07	0.161	22.00	0.158	22.06	0.161
10	QPSK	25	0	21.10	0.129	21.09	0.129	20.87	0.122
10	QPSK	25	12	21.00	0.126	21.17	0.131	21.04	0.127
10	QPSK	25	25	21.06	0.128	20.96	0.125	21.05	0.127
10	QPSK	50	0	21.04	0.127	20.93	0.124	20.89	0.123
10	16QAM	1	0	21.00	0.126	21.11	0.129	21.12	0.129
10	16QAM	1	25	21.05	0.127	20.98	0.125	21.03	0.127
10	16QAM	1	49	20.99	0.126	21.15	0.130	20.87	0.122
10	16QAM	25	0	20.04	0.101	20.06	0.101	20.17	0.104
10	16QAM	25	12	20.11	0.103	20.02	0.100	19.95	0.099
10	16QAM	25	25	20.23	0.105	19.86	0.097	20.04	0.101
10	16QAM	50	0	20.02	0.100	20.17	0.104	19.97	0.099

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	22.04	0.160	22.18	0.165	22.07	0.161
5	QPSK	1	12	22.20	0.166	22.07	0.161	21.94	0.156
5	QPSK	1	24	21.92	0.156	22.02	0.159	22.10	0.162
5	QPSK	12	0	21.07	0.128	21.10	0.129	21.01	0.126
5	QPSK	12	7	21.13	0.130	21.15	0.130	21.09	0.129
5	QPSK	12	13	21.05	0.127	21.11	0.129	20.91	0.123
5	QPSK	25	0	20.88	0.122	20.80	0.120	21.01	0.126
5	16QAM	1	0	21.18	0.131	21.02	0.126	21.10	0.129
5	16QAM	1	12	20.98	0.125	20.95	0.124	21.01	0.126
5	16QAM	1	24	21.03	0.127	21.13	0.130	20.91	0.123
5	16QAM	12	0	20.06	0.101	20.00	0.100	19.99	0.100
5	16QAM	12	7	19.95	0.099	19.94	0.099	20.05	0.101
5	16QAM	12	13	20.16	0.104	19.94	0.099	20.12	0.103
5	16QAM	25	0	19.89	0.097	19.99	0.100	19.92	0.098

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	22.02	0.159	22.22	0.167	22.18	0.165
3	QPSK	1	8	22.03	0.160	22.05	0.160	22.05	0.160
3	QPSK	1	14	22.13	0.163	22.17	0.165	22.18	0.165
3	QPSK	8	0	20.86	0.122	20.94	0.124	20.92	0.124
3	QPSK	8	4	20.95	0.124	21.02	0.126	21.05	0.127
3	QPSK	8	7	21.04	0.127	20.87	0.122	20.88	0.122
3	QPSK	15	0	20.90	0.123	21.01	0.126	20.99	0.126
3	16QAM	1	0	21.15	0.130	21.14	0.130	21.05	0.127
3	16QAM	1	8	21.02	0.126	21.01	0.126	21.11	0.129
3	16QAM	1	14	21.06	0.128	20.87	0.122	20.97	0.125
3	16QAM	8	0	20.05	0.101	20.22	0.105	20.05	0.101
3	16QAM	8	4	20.00	0.100	20.01	0.100	20.02	0.100
3	16QAM	8	7	20.06	0.101	19.91	0.098	19.97	0.099
3	16QAM	15	0	20.06	0.101	20.10	0.102	19.91	0.098

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	22.20	0.166	22.21	0.166	22.08	0.161
1.4	QPSK	1	3	22.15	0.164	21.99	0.158	21.99	0.158
1.4	QPSK	1	5	22.14	0.164	22.06	0.161	22.16	0.164
1.4	QPSK	3	0	21.12	0.129	21.10	0.129	21.05	0.127
1.4	QPSK	3	1	21.06	0.128	21.03	0.127	20.97	0.125
1.4	QPSK	3	3	21.02	0.126	21.07	0.128	21.00	0.126
1.4	QPSK	6	0	20.77	0.119	20.99	0.126	20.90	0.123
1.4	16QAM	1	0	20.97	0.125	21.07	0.128	21.05	0.127
1.4	16QAM	1	3	20.82	0.121	20.87	0.122	21.00	0.126
1.4	16QAM	1	5	20.79	0.120	20.93	0.124	21.01	0.126
1.4	16QAM	3	0	20.19	0.104	20.01	0.100	20.16	0.104
1.4	16QAM	3	1	20.06	0.101	20.24	0.106	19.96	0.099
1.4	16QAM	3	3	20.17	0.104	20.14	0.103	19.96	0.099
1.4	16QAM	6	0	20.06	0.101	19.89	0.097	20.04	0.101

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	22.13	0.163	22.15	0.164	22.06	0.161
20	QPSK	1	49	21.98	0.158	22.12	0.163	21.86	0.153
20	QPSK	1	99	22.08	0.161	22.02	0.159	22.06	0.161
20	QPSK	50	0	21.00	0.126	21.20	0.132	20.93	0.124
20	QPSK	50	24	21.11	0.129	21.15	0.130	20.93	0.124
20	QPSK	50	50	21.05	0.127	20.96	0.125	21.01	0.126
20	QPSK	100	0	20.95	0.124	21.15	0.130	21.11	0.129
20	16QAM	1	0	21.20	0.132	21.21	0.132	20.99	0.126
20	16QAM	1	49	21.11	0.129	20.94	0.124	21.02	0.126
20	16QAM	1	99	20.96	0.125	20.91	0.123	21.02	0.126
20	16QAM	50	0	20.03	0.101	20.19	0.104	19.93	0.098
20	16QAM	50	24	19.97	0.099	20.24	0.106	20.14	0.103
20	16QAM	50	50	20.00	0.100	20.01	0.100	19.91	0.098
20	16QAM	100	0	20.15	0.104	20.14	0.103	20.15	0.104

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	22.12	0.163	22.12	0.163	22.00	0.158
15	QPSK	1	37	22.05	0.160	22.11	0.163	21.95	0.157
15	QPSK	1	74	22.06	0.161	22.04	0.160	22.03	0.160
15	QPSK	36	0	21.08	0.128	21.06	0.128	21.00	0.126
15	QPSK	36	20	20.83	0.121	21.11	0.129	21.11	0.129
15	QPSK	36	39	21.08	0.128	20.94	0.124	21.02	0.126
15	QPSK	75	0	20.81	0.121	20.80	0.120	20.93	0.124
15	16QAM	1	0	21.06	0.128	21.02	0.126	21.06	0.128
15	16QAM	1	37	21.05	0.127	20.90	0.123	20.86	0.122
15	16QAM	1	74	20.79	0.120	21.16	0.131	20.83	0.121
15	16QAM	36	0	20.10	0.102	20.27	0.106	19.99	0.100
15	16QAM	36	20	20.19	0.104	20.07	0.102	20.18	0.104
15	16QAM	36	39	20.26	0.106	20.01	0.100	19.97	0.099
15	16QAM	75	0	19.96	0.099	19.99	0.100	20.07	0.102

LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20000		20175		20350	
Frequency (MHz)				1715		1732.5		1750	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	22.07	0.161	22.13	0.163	22.08	0.161
10	QPSK	1	25	22.12	0.163	22.11	0.163	22.13	0.163
10	QPSK	1	49	22.04	0.160	22.09	0.162	22.05	0.160
10	QPSK	25	0	20.79	0.120	21.04	0.127	20.80	0.120
10	QPSK	25	12	20.92	0.124	21.00	0.126	20.76	0.119
10	QPSK	25	25	20.97	0.125	20.84	0.121	21.07	0.128
10	QPSK	50	0	20.84	0.121	20.86	0.122	20.97	0.125
10	16QAM	1	0	21.06	0.128	20.88	0.122	20.82	0.121
10	16QAM	1	25	20.83	0.121	20.96	0.125	20.88	0.122
10	16QAM	1	49	20.80	0.120	20.83	0.121	20.89	0.123
10	16QAM	25	0	19.96	0.099	20.16	0.104	20.04	0.101
10	16QAM	25	12	20.02	0.100	20.16	0.104	20.03	0.101
10	16QAM	25	25	20.00	0.100	20.00	0.100	19.92	0.098
10	16QAM	50	0	20.00	0.100	20.15	0.104	20.15	0.104

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	22.02	0.159	22.11	0.163	22.00	0.158
5	QPSK	1	12	22.02	0.159	22.03	0.160	21.99	0.158
5	QPSK	1	24	22.06	0.161	22.09	0.162	22.05	0.160
5	QPSK	12	0	20.83	0.121	21.01	0.126	20.88	0.122
5	QPSK	12	7	21.15	0.130	20.87	0.122	21.07	0.128
5	QPSK	12	13	21.09	0.129	20.97	0.125	21.12	0.129
5	QPSK	25	0	21.09	0.129	21.11	0.129	20.97	0.125
5	16QAM	1	0	20.98	0.125	21.04	0.127	20.83	0.121
5	16QAM	1	12	20.87	0.122	20.89	0.123	21.06	0.128
5	16QAM	1	24	20.81	0.121	20.88	0.122	20.89	0.123
5	16QAM	12	0	20.22	0.105	20.08	0.102	20.16	0.104
5	16QAM	12	7	20.25	0.106	20.22	0.105	19.93	0.098
5	16QAM	12	13	20.04	0.101	19.98	0.100	20.02	0.100
5	16QAM	25	0	20.13	0.103	20.05	0.101	20.11	0.103

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	22.01	0.159	22.10	0.162	22.07	0.161
3	QPSK	1	8	22.09	0.162	22.01	0.159	21.90	0.155
3	QPSK	1	14	22.05	0.160	22.02	0.159	22.04	0.160
3	QPSK	8	0	20.87	0.122	21.19	0.132	21.12	0.129
3	QPSK	8	4	21.17	0.131	20.91	0.123	21.06	0.128
3	QPSK	8	7	20.88	0.122	20.80	0.120	21.01	0.126
3	QPSK	15	0	20.88	0.122	20.89	0.123	20.87	0.122
3	16QAM	1	0	20.91	0.123	21.15	0.130	20.81	0.121
3	16QAM	1	8	21.08	0.128	21.03	0.127	21.18	0.131
3	16QAM	1	14	20.99	0.126	21.08	0.128	20.96	0.125
3	16QAM	8	0	20.02	0.100	20.01	0.100	20.16	0.104
3	16QAM	8	4	19.93	0.098	20.19	0.104	19.87	0.097
3	16QAM	8	7	19.98	0.100	19.98	0.100	19.90	0.098
3	16QAM	15	0	19.95	0.099	20.18	0.104	20.13	0.103

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	22.04	0.160	22.08	0.161	22.03	0.160
1.4	QPSK	1	3	22.00	0.158	22.01	0.159	21.98	0.158
1.4	QPSK	1	5	22.03	0.160	22.02	0.159	22.03	0.160
1.4	QPSK	3	0	21.03	0.127	21.05	0.127	21.03	0.127
1.4	QPSK	3	1	21.02	0.126	21.12	0.129	21.07	0.128
1.4	QPSK	3	3	21.03	0.127	21.09	0.129	21.00	0.126
1.4	QPSK	6	0	21.00	0.126	21.15	0.130	20.82	0.121
1.4	16QAM	1	0	21.01	0.126	21.05	0.127	20.93	0.124
1.4	16QAM	1	3	21.13	0.130	21.12	0.129	21.14	0.130
1.4	16QAM	1	5	20.75	0.119	20.85	0.122	20.95	0.124
1.4	16QAM	3	0	20.03	0.101	19.99	0.100	20.05	0.101
1.4	16QAM	3	1	20.12	0.103	20.00	0.100	20.06	0.101
1.4	16QAM	3	3	20.25	0.106	20.10	0.102	20.10	0.102
1.4	16QAM	6	0	20.00	0.100	20.18	0.104	19.95	0.099

LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20450		20525		20600	
Frequency (MHz)				829		836.5		844	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	19.96	0.099	20.00	0.100	19.81	0.096
10	QPSK	1	25	19.81	0.096	19.86	0.097	19.82	0.096
10	QPSK	1	49	19.74	0.094	19.88	0.097	19.75	0.094
10	QPSK	25	0	18.88	0.077	19.01	0.080	18.89	0.077
10	QPSK	25	12	18.81	0.076	18.97	0.079	18.87	0.077
10	QPSK	25	25	18.78	0.076	18.94	0.078	18.77	0.075
10	QPSK	50	0	18.74	0.075	18.90	0.078	18.78	0.076
10	16QAM	1	0	18.97	0.079	18.83	0.076	18.95	0.079
10	16QAM	1	25	18.91	0.078	18.81	0.076	18.81	0.076
10	16QAM	1	49	18.76	0.075	18.72	0.074	18.69	0.074
10	16QAM	25	0	18.02	0.063	18.00	0.063	18.09	0.064
10	16QAM	25	12	17.89	0.062	17.77	0.060	17.98	0.063
10	16QAM	25	25	17.92	0.062	17.82	0.061	17.81	0.060
10	16QAM	50	0	18.02	0.063	17.99	0.063	17.94	0.062

LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20425		20525		20625	
Frequency (MHz)				826.5		836.5		846.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	19.96	0.099	19.97	0.099	19.95	0.099
5	QPSK	1	12	19.98	0.100	19.83	0.096	19.74	0.094
5	QPSK	1	24	19.78	0.095	19.85	0.097	19.87	0.097
5	QPSK	12	0	18.70	0.074	18.86	0.077	18.76	0.075
5	QPSK	12	7	18.93	0.078	19.03	0.080	18.95	0.079
5	QPSK	12	13	18.90	0.078	18.88	0.077	18.65	0.073
5	QPSK	25	0	18.82	0.076	18.91	0.078	18.88	0.077
5	16QAM	1	0	18.78	0.076	18.79	0.076	18.99	0.079
5	16QAM	1	12	18.98	0.079	18.74	0.075	18.80	0.076
5	16QAM	1	24	18.74	0.075	19.01	0.080	18.74	0.075
5	16QAM	12	0	17.96	0.063	18.03	0.064	17.87	0.061
5	16QAM	12	7	17.90	0.062	17.91	0.062	17.80	0.060
5	16QAM	12	13	17.93	0.062	17.90	0.062	17.91	0.062
5	16QAM	25	0	17.94	0.062	17.87	0.061	17.75	0.060

LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20415		20525		20635	
Frequency (MHz)				825.5		836.5		847.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	19.93	0.098	19.98	0.100	19.94	0.099
3	QPSK	1	8	19.97	0.099	19.77	0.095	19.98	0.100
3	QPSK	1	14	19.91	0.098	19.95	0.099	19.84	0.096
3	QPSK	8	0	18.82	0.076	19.05	0.080	18.93	0.078
3	QPSK	8	4	18.91	0.078	18.85	0.077	18.85	0.077
3	QPSK	8	7	18.77	0.075	18.67	0.074	19.00	0.079
3	QPSK	15	0	18.88	0.077	18.84	0.077	18.66	0.073
3	16QAM	1	0	18.86	0.077	18.77	0.075	18.71	0.074
3	16QAM	1	8	18.88	0.077	19.00	0.079	18.99	0.079
3	16QAM	1	14	18.64	0.073	18.76	0.075	18.97	0.079
3	16QAM	8	0	18.13	0.065	17.98	0.063	17.90	0.062
3	16QAM	8	4	18.08	0.064	18.09	0.064	17.76	0.060
3	16QAM	8	7	18.11	0.065	17.73	0.059	17.85	0.061
3	16QAM	15	0	17.82	0.061	17.86	0.061	17.78	0.060

LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20407		20525		20643	
Frequency (MHz)				824.7		836.5		848.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	19.90	0.098	19.93	0.098	19.85	0.097
1.4	QPSK	1	3	19.89	0.097	19.92	0.098	19.91	0.098
1.4	QPSK	1	5	19.83	0.096	19.79	0.095	19.74	0.094
1.4	QPSK	3	0	18.76	0.075	19.01	0.080	18.98	0.079
1.4	QPSK	3	1	18.92	0.078	18.86	0.077	18.87	0.077
1.4	QPSK	3	3	18.87	0.077	18.98	0.079	18.76	0.075
1.4	QPSK	6	0	18.87	0.077	18.69	0.074	18.67	0.074
1.4	16QAM	1	0	18.72	0.074	19.02	0.080	18.78	0.076
1.4	16QAM	1	3	18.76	0.075	18.70	0.074	18.72	0.074
1.4	16QAM	1	5	18.65	0.073	18.86	0.077	18.66	0.073
1.4	16QAM	3	0	18.08	0.064	18.08	0.064	17.78	0.060
1.4	16QAM	3	1	18.05	0.064	17.97	0.063	18.01	0.063
1.4	16QAM	3	3	18.09	0.064	17.95	0.062	17.71	0.059
1.4	16QAM	6	0	18.02	0.063	17.76	0.060	17.70	0.059

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	20.15	0.104	20.20	0.105	20.08	0.102
10	QPSK	1	25	20.08	0.102	20.11	0.103	19.93	0.098
10	QPSK	1	49	20.12	0.103	20.15	0.104	20.15	0.104
10	QPSK	25	0	19.14	0.082	18.95	0.079	18.91	0.078
10	QPSK	25	12	19.14	0.082	18.99	0.079	19.10	0.081
10	QPSK	25	25	19.01	0.080	19.04	0.080	19.08	0.081
10	QPSK	50	0	19.06	0.081	18.88	0.077	19.19	0.083
10	16QAM	1	0	19.08	0.081	19.03	0.080	19.17	0.083
10	16QAM	1	25	19.01	0.080	18.97	0.079	19.01	0.080
10	16QAM	1	49	18.94	0.078	19.04	0.080	18.90	0.078
10	16QAM	25	0	18.21	0.066	18.23	0.067	18.21	0.066
10	16QAM	25	12	18.13	0.065	18.24	0.067	18.26	0.067
10	16QAM	25	25	18.03	0.064	18.20	0.066	17.88	0.061
10	16QAM	50	0	18.28	0.067	17.96	0.063	18.10	0.065

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	19.97	0.099	20.17	0.104	20.10	0.102
5	QPSK	1	12	20.11	0.103	20.07	0.102	20.13	0.103
5	QPSK	1	24	20.06	0.101	20.01	0.100	20.04	0.101
5	QPSK	12	0	19.06	0.081	19.25	0.084	19.14	0.082
5	QPSK	12	7	19.08	0.081	18.92	0.078	19.01	0.080
5	QPSK	12	13	19.13	0.082	19.17	0.083	18.99	0.079
5	QPSK	25	0	19.21	0.083	19.22	0.084	18.92	0.078
5	16QAM	1	0	19.27	0.085	19.21	0.083	19.21	0.083
5	16QAM	1	12	19.00	0.079	19.17	0.083	19.17	0.083
5	16QAM	1	24	18.96	0.079	19.10	0.081	19.17	0.083
5	16QAM	12	0	18.06	0.064	18.37	0.069	18.02	0.063
5	16QAM	12	7	18.27	0.067	18.05	0.064	18.12	0.065
5	16QAM	12	13	18.31	0.068	18.10	0.065	18.04	0.064
5	16QAM	25	0	17.96	0.063	18.12	0.065	17.98	0.063

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	20.03	0.101	20.19	0.104	20.05	0.101
3	QPSK	1	8	20.08	0.102	20.04	0.101	20.15	0.104
3	QPSK	1	14	20.14	0.103	20.05	0.101	20.19	0.104
3	QPSK	8	0	18.92	0.078	19.05	0.080	18.97	0.079
3	QPSK	8	4	19.17	0.083	19.18	0.083	19.06	0.081
3	QPSK	8	7	19.06	0.081	19.22	0.084	19.11	0.081
3	QPSK	15	0	19.10	0.081	19.17	0.083	18.85	0.077
3	16QAM	1	0	19.20	0.083	19.20	0.083	19.08	0.081
3	16QAM	1	8	19.18	0.083	19.08	0.081	19.15	0.082
3	16QAM	1	14	19.01	0.080	19.09	0.081	19.03	0.080
3	16QAM	8	0	18.32	0.068	18.34	0.068	18.30	0.068
3	16QAM	8	4	18.00	0.063	18.19	0.066	18.07	0.064
3	16QAM	8	7	18.13	0.065	18.22	0.066	17.87	0.061
3	16QAM	15	0	17.96	0.063	17.98	0.063	18.03	0.064

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	20.14	0.103	20.16	0.104	20.14	0.103
1.4	QPSK	1	3	19.98	0.100	20.12	0.103	20.04	0.101
1.4	QPSK	1	5	20.06	0.101	20.02	0.100	20.01	0.100
1.4	QPSK	3	0	18.92	0.078	19.17	0.083	19.09	0.081
1.4	QPSK	3	1	18.96	0.079	19.09	0.081	19.06	0.081
1.4	QPSK	3	3	18.99	0.079	19.00	0.079	18.97	0.079
1.4	QPSK	6	0	18.98	0.079	18.92	0.078	19.04	0.080
1.4	16QAM	1	0	18.96	0.079	19.03	0.080	19.03	0.080
1.4	16QAM	1	3	19.16	0.082	19.19	0.083	19.18	0.083
1.4	16QAM	1	5	18.99	0.079	19.17	0.083	19.04	0.080
1.4	16QAM	3	0	18.02	0.063	18.12	0.065	18.11	0.065
1.4	16QAM	3	1	18.00	0.063	18.08	0.064	18.27	0.067
1.4	16QAM	3	3	18.25	0.067	18.05	0.064	17.99	0.063
1.4	16QAM	6	0	18.02	0.063	18.25	0.067	18.07	0.064

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	20.12	0.103	20.15	0.104	19.97	0.099
10	QPSK	1	25	20.03	0.101	19.99	0.100	20.04	0.101
10	QPSK	1	49	20.03	0.101	19.98	0.100	20.13	0.103
10	QPSK	25	0	19.09	0.081	19.18	0.083	18.93	0.078
10	QPSK	25	12	19.16	0.082	19.11	0.081	18.83	0.076
10	QPSK	25	25	19.06	0.081	18.98	0.079	19.04	0.080
10	QPSK	50	0	18.93	0.078	19.03	0.080	18.95	0.079
10	16QAM	1	0	19.09	0.081	19.16	0.082	19.13	0.082
10	16QAM	1	25	18.98	0.079	19.19	0.083	19.12	0.082
10	16QAM	1	49	18.92	0.078	18.90	0.078	18.92	0.078
10	16QAM	25	0	18.35	0.068	18.07	0.064	18.21	0.066
10	16QAM	25	12	18.16	0.065	17.99	0.063	18.10	0.065
10	16QAM	25	25	18.14	0.065	17.92	0.062	17.93	0.062
10	16QAM	50	0	18.16	0.065	18.26	0.067	18.16	0.065

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	20.01	0.100	20.09	0.102	20.05	0.101
5	QPSK	1	12	20.07	0.102	20.06	0.101	20.06	0.101
5	QPSK	1	24	20.01	0.100	19.97	0.099	20.09	0.102
5	QPSK	12	0	19.09	0.081	18.93	0.078	19.02	0.080
5	QPSK	12	7	19.14	0.082	18.96	0.079	18.84	0.077
5	QPSK	12	13	19.01	0.080	18.96	0.079	18.93	0.078
5	QPSK	25	0	19.06	0.081	18.93	0.078	18.93	0.078
5	16QAM	1	0	19.17	0.083	19.19	0.083	19.10	0.081
5	16QAM	1	12	19.04	0.080	18.88	0.077	19.05	0.080
5	16QAM	1	24	19.04	0.080	19.06	0.081	19.13	0.082
5	16QAM	12	0	18.15	0.065	18.10	0.065	18.02	0.063
5	16QAM	12	7	18.26	0.067	18.01	0.063	18.03	0.064
5	16QAM	12	13	18.12	0.065	18.23	0.067	17.91	0.062
5	16QAM	25	0	18.15	0.065	18.17	0.066	18.08	0.064

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	22.17	0.165	22.26	0.168	22.08	0.161
20	QPSK	1	49	21.96	0.157	22.20	0.166	22.18	0.165
20	QPSK	1	99	22.11	0.163	22.07	0.161	22.07	0.161
20	QPSK	50	0	21.06	0.128	21.31	0.135	21.00	0.126
20	QPSK	50	24	21.07	0.128	21.09	0.129	21.07	0.128
20	QPSK	50	50	21.00	0.126	20.98	0.125	20.86	0.122
20	QPSK	100	0	21.01	0.126	21.12	0.129	21.02	0.126
20	16QAM	1	0	21.15	0.130	21.10	0.129	21.10	0.129
20	16QAM	1	49	20.86	0.122	20.98	0.125	21.11	0.129
20	16QAM	1	99	20.76	0.119	20.90	0.123	21.13	0.130
20	16QAM	50	0	20.27	0.106	20.27	0.106	20.21	0.105
20	16QAM	50	24	20.05	0.101	20.08	0.102	19.96	0.099
20	16QAM	50	50	20.01	0.100	20.02	0.100	20.04	0.101
20	16QAM	100	0	20.15	0.104	20.03	0.101	20.06	0.101

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	22.03	0.160	22.22	0.167	22.03	0.160
15	QPSK	1	37	22.00	0.158	22.21	0.166	22.13	0.163
15	QPSK	1	74	22.09	0.162	22.04	0.160	22.10	0.162
15	QPSK	36	0	20.82	0.121	21.21	0.132	21.04	0.127
15	QPSK	36	20	20.92	0.124	20.96	0.125	20.98	0.125
15	QPSK	36	39	20.82	0.121	21.14	0.130	20.97	0.125
15	QPSK	75	0	20.96	0.125	20.96	0.125	20.82	0.121
15	16QAM	1	0	21.17	0.131	20.92	0.124	20.98	0.125
15	16QAM	1	37	20.92	0.124	21.06	0.128	20.95	0.124
15	16QAM	1	74	20.81	0.121	21.18	0.131	20.94	0.124
15	16QAM	36	0	20.24	0.106	20.24	0.106	20.06	0.101
15	16QAM	36	20	20.21	0.105	20.20	0.105	19.88	0.097
15	16QAM	36	39	20.06	0.101	20.08	0.102	19.84	0.096
15	16QAM	75	0	20.03	0.101	19.90	0.098	20.02	0.100

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	22.07	0.161	22.23	0.167	22.06	0.161
10	QPSK	1	25	22.06	0.161	22.23	0.167	21.96	0.157
10	QPSK	1	49	21.96	0.157	22.14	0.164	22.15	0.164
10	QPSK	25	0	20.90	0.123	20.97	0.125	20.99	0.126
10	QPSK	25	12	20.82	0.121	21.12	0.129	21.06	0.128
10	QPSK	25	25	21.04	0.127	20.98	0.125	21.00	0.126
10	QPSK	50	0	20.97	0.125	20.97	0.125	21.04	0.127
10	16QAM	1	0	21.03	0.127	21.13	0.130	21.07	0.128
10	16QAM	1	25	21.04	0.127	20.90	0.123	21.13	0.130
10	16QAM	1	49	21.00	0.126	21.03	0.127	20.84	0.121
10	16QAM	25	0	19.94	0.099	20.06	0.101	19.96	0.099
10	16QAM	25	12	20.04	0.101	19.91	0.098	19.98	0.100
10	16QAM	25	25	20.23	0.105	20.16	0.104	20.06	0.101
10	16QAM	50	0	20.01	0.100	20.04	0.101	19.96	0.099

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	22.16	0.164	22.20	0.166	22.15	0.164
5	QPSK	1	12	22.02	0.159	22.09	0.162	22.19	0.166
5	QPSK	1	24	22.12	0.163	22.19	0.166	22.00	0.158
5	QPSK	12	0	21.01	0.126	20.90	0.123	21.02	0.126
5	QPSK	12	7	20.91	0.123	21.13	0.130	20.96	0.125
5	QPSK	12	13	20.98	0.125	21.02	0.126	20.86	0.122
5	QPSK	25	0	21.07	0.128	20.81	0.121	20.99	0.126
5	16QAM	1	0	21.13	0.130	21.17	0.131	20.93	0.124
5	16QAM	1	12	21.17	0.131	21.01	0.126	20.90	0.123
5	16QAM	1	24	21.08	0.128	21.02	0.126	20.91	0.123
5	16QAM	12	0	20.03	0.101	20.20	0.105	19.99	0.100
5	16QAM	12	7	20.22	0.105	19.95	0.099	20.10	0.102
5	16QAM	12	13	20.22	0.105	20.13	0.103	19.91	0.098
5	16QAM	25	0	20.11	0.103	20.10	0.102	19.86	0.097

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	22.03	0.160	22.21	0.166	22.01	0.159
3	QPSK	1	8	21.95	0.157	22.07	0.161	22.12	0.163
3	QPSK	1	14	22.16	0.164	22.13	0.163	22.10	0.162
3	QPSK	8	0	20.95	0.124	21.01	0.126	21.02	0.126
3	QPSK	8	4	20.92	0.124	20.85	0.122	20.77	0.119
3	QPSK	8	7	20.99	0.126	20.85	0.122	20.96	0.125
3	QPSK	15	0	20.89	0.123	21.13	0.130	20.93	0.124
3	16QAM	1	0	21.05	0.127	21.17	0.131	21.03	0.127
3	16QAM	1	8	20.89	0.123	21.13	0.130	21.01	0.126
3	16QAM	1	14	20.79	0.120	21.13	0.130	21.02	0.126
3	16QAM	8	0	20.15	0.104	20.09	0.102	20.07	0.102
3	16QAM	8	4	19.98	0.100	20.19	0.104	20.13	0.103
3	16QAM	8	7	20.06	0.101	20.05	0.101	19.81	0.096
3	16QAM	15	0	20.06	0.101	20.20	0.105	19.88	0.097

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	22.12	0.163	22.22	0.167	22.13	0.163
1.4	QPSK	1	3	21.88	0.154	22.01	0.159	22.14	0.164
1.4	QPSK	1	5	22.18	0.165	22.10	0.162	22.13	0.163
1.4	QPSK	3	0	21.06	0.128	21.12	0.129	21.03	0.127
1.4	QPSK	3	1	21.17	0.131	21.02	0.126	21.02	0.126
1.4	QPSK	3	3	21.05	0.127	21.13	0.130	21.13	0.130
1.4	QPSK	6	0	21.12	0.129	21.08	0.128	20.90	0.123
1.4	16QAM	1	0	21.18	0.131	21.08	0.128	21.11	0.129
1.4	16QAM	1	3	20.82	0.121	20.87	0.122	21.16	0.131
1.4	16QAM	1	5	20.83	0.121	21.15	0.130	20.95	0.124
1.4	16QAM	3	0	20.18	0.104	20.15	0.104	20.07	0.102
1.4	16QAM	3	1	20.00	0.100	20.22	0.105	20.20	0.105
1.4	16QAM	3	3	20.00	0.100	20.06	0.101	19.98	0.100
1.4	16QAM	6	0	19.96	0.099	19.92	0.098	19.99	0.100

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	19.77	0.095	19.88	0.097	19.69	0.093
20	QPSK	1	49	19.68	0.093	19.74	0.094	19.55	0.090
20	QPSK	1	99	19.63	0.092	19.83	0.096	19.80	0.095
20	QPSK	50	0	18.69	0.074	18.90	0.078	18.84	0.077
20	QPSK	50	24	18.71	0.074	18.79	0.076	18.80	0.076
20	QPSK	50	50	18.49	0.071	18.84	0.077	18.52	0.071
20	QPSK	100	0	18.83	0.076	18.58	0.072	18.60	0.072
20	16QAM	1	0	18.73	0.075	18.69	0.074	18.63	0.073
20	16QAM	1	49	18.52	0.071	18.85	0.077	18.76	0.075
20	16QAM	1	99	18.63	0.073	18.55	0.072	18.51	0.071
20	16QAM	50	0	17.67	0.058	17.76	0.060	17.90	0.062
20	16QAM	50	24	17.84	0.061	17.88	0.061	17.65	0.058
20	16QAM	50	50	17.65	0.058	17.55	0.057	17.52	0.056
20	16QAM	100	0	17.61	0.058	17.60	0.058	17.76	0.060

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	19.81	0.096	19.84	0.096	19.70	0.093
15	QPSK	1	37	19.81	0.096	19.77	0.095	19.57	0.091
15	QPSK	1	74	19.80	0.095	19.75	0.094	19.83	0.096
15	QPSK	36	0	18.79	0.076	18.81	0.076	18.84	0.077
15	QPSK	36	20	18.68	0.074	18.67	0.074	18.77	0.075
15	QPSK	36	39	18.72	0.074	18.83	0.076	18.58	0.072
15	QPSK	75	0	18.52	0.071	18.85	0.077	18.76	0.075
15	16QAM	1	0	18.86	0.077	18.73	0.075	18.76	0.075
15	16QAM	1	37	18.52	0.071	18.63	0.073	18.77	0.075
15	16QAM	1	74	18.64	0.073	18.73	0.075	18.52	0.071
15	16QAM	36	0	17.96	0.063	17.97	0.063	17.81	0.060
15	16QAM	36	20	17.87	0.061	17.93	0.062	17.65	0.058
15	16QAM	36	39	17.87	0.061	17.82	0.061	17.70	0.059
15	16QAM	75	0	17.58	0.057	17.64	0.058	17.79	0.060

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	19.76	0.095	19.81	0.096	19.70	0.093
10	QPSK	1	25	19.81	0.096	19.62	0.092	19.58	0.091
10	QPSK	1	49	19.66	0.092	19.73	0.094	19.61	0.091
10	QPSK	25	0	18.57	0.072	18.66	0.073	18.61	0.073
10	QPSK	25	12	18.55	0.072	18.72	0.074	18.70	0.074
10	QPSK	25	25	18.49	0.071	18.61	0.073	18.64	0.073
10	QPSK	50	0	18.77	0.075	18.85	0.077	18.48	0.070
10	16QAM	1	0	18.58	0.072	18.78	0.076	18.68	0.074
10	16QAM	1	25	18.59	0.072	18.63	0.073	18.80	0.076
10	16QAM	1	49	18.37	0.069	18.62	0.073	18.65	0.073
10	16QAM	25	0	17.73	0.059	17.74	0.059	17.67	0.058
10	16QAM	25	12	17.73	0.059	17.62	0.058	17.75	0.060
10	16QAM	25	25	17.93	0.062	17.84	0.061	17.80	0.060
10	16QAM	50	0	17.88	0.061	17.56	0.057	17.55	0.057

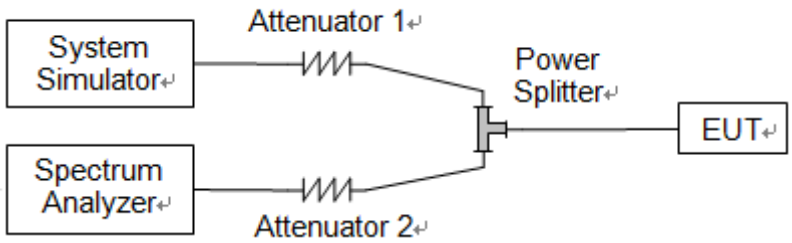
LTE Band 71				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				133147		133247		133447	
Frequency (MHz)				665.5		675.5		695.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	19.77	0.095	19.83	0.096	19.69	0.093
5	QPSK	1	12	19.68	0.093	19.69	0.093	19.56	0.090
5	QPSK	1	24	19.73	0.094	19.65	0.092	19.70	0.093
5	QPSK	12	0	18.77	0.075	18.55	0.072	18.55	0.072
5	QPSK	12	7	18.74	0.075	18.87	0.077	18.57	0.072
5	QPSK	12	13	18.62	0.073	18.61	0.073	18.80	0.076
5	QPSK	25	0	18.52	0.071	18.69	0.074	18.64	0.073
5	16QAM	1	0	18.85	0.077	18.85	0.077	18.66	0.073
5	16QAM	1	12	18.64	0.073	18.85	0.077	18.82	0.076
5	16QAM	1	24	18.45	0.070	18.56	0.072	18.59	0.072
5	16QAM	12	0	17.80	0.060	18.00	0.063	17.81	0.060
5	16QAM	12	7	17.70	0.059	17.62	0.058	17.57	0.057
5	16QAM	12	13	17.99	0.063	17.55	0.057	17.69	0.059
5	16QAM	25	0	17.58	0.057	17.81	0.060	17.62	0.058

2.2. Occupied Bandwidth

2.2.1. Requirement

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

2.2.2. Test Description



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

2.2.3. Test Procedure

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

2.2.4. Test Result

LTE Band 2				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.24
	Low	16QAM	1.10	1.25
	Mid	QPSK	1.11	1.23
	Mid	16QAM	1.10	1.24
	High	QPSK	1.10	1.34
	High	16QAM	1.10	1.26
3	Low	QPSK	2.72	3.05
	Low	16QAM	2.71	3.03
	Mid	QPSK	2.71	3.03
	Mid	16QAM	2.71	3.09
	High	QPSK	2.71	3.06
	High	16QAM	2.72	3.34
5	Low	QPSK	4.50	4.99
	Low	16QAM	4.50	4.95
	Mid	QPSK	4.50	4.97
	Mid	16QAM	4.51	4.99
	High	QPSK	4.50	4.95
	High	16QAM	4.50	4.96
10	Low	QPSK	9.02	9.84
	Low	16QAM	8.98	9.89
	Mid	QPSK	9.03	9.90
	Mid	16QAM	8.98	9.79
	High	QPSK	8.99	9.90
	High	16QAM	8.98	9.86
15	Low	QPSK	13.50	14.92
	Low	16QAM	13.51	14.92
	Mid	QPSK	13.45	14.82
	Mid	16QAM	13.50	14.86
	High	QPSK	13.47	14.93
	High	16QAM	13.51	14.99
20	Low	QPSK	18.01	19.79
	Low	16QAM	18.06	19.98
	Mid	QPSK	17.99	19.74
	Mid	16QAM	18.03	19.72
	High	QPSK	18.02	19.82
	High	16QAM	17.95	19.14

LTE Band 4				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.24
	Low	16QAM	1.10	1.46
	Mid	QPSK	1.10	1.25
	Mid	16QAM	1.10	1.25
	High	QPSK	1.10	1.24
	High	16QAM	1.10	1.24
3	Low	QPSK	2.72	3.05
	Low	16QAM	2.71	3.06
	Mid	QPSK	2.71	3.04
	Mid	16QAM	2.71	3.04
	High	QPSK	2.72	3.04
	High	16QAM	2.71	3.03
5	Low	QPSK	4.49	4.96
	Low	16QAM	4.50	4.98
	Mid	QPSK	4.49	4.98
	Mid	16QAM	4.50	4.98
	High	QPSK	4.50	4.96
	High	16QAM	4.51	4.99
10	Low	QPSK	9.01	9.88
	Low	16QAM	9.01	9.82
	Mid	QPSK	9.00	9.85
	Mid	16QAM	8.97	9.78
	High	QPSK	9.02	9.79
	High	16QAM	8.98	9.86
15	Low	QPSK	13.50	14.92
	Low	16QAM	13.49	14.87
	Mid	QPSK	13.49	14.84
	Mid	16QAM	13.48	14.91
	High	QPSK	13.49	14.93
	High	16QAM	13.49	14.95
20	Low	QPSK	18.06	19.74
	Low	16QAM	18.05	19.72
	Mid	QPSK	17.95	19.74
	Mid	16QAM	17.99	19.80
	High	QPSK	18.01	19.79
	High	16QAM	18.05	19.87

LTE Band 5				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.25
	Low	16QAM	1.10	1.25
	Mid	QPSK	1.10	1.25
	Mid	16QAM	1.10	1.25
	High	QPSK	1.10	1.25
	High	16QAM	1.10	1.25
3	Low	QPSK	2.72	3.06
	Low	16QAM	2.73	3.01
	Mid	QPSK	2.71	3.05
	Mid	16QAM	2.71	3.05
	High	QPSK	2.71	3.04
	High	16QAM	2.72	3.02
5	Low	QPSK	4.50	4.98
	Low	16QAM	4.50	4.99
	Mid	QPSK	4.50	4.96
	Mid	16QAM	4.51	4.98
	High	QPSK	4.50	4.99
	High	16QAM	4.51	5.02
10	Low	QPSK	9.02	9.85
	Low	16QAM	8.98	9.76
	Mid	QPSK	9.00	9.88
	Mid	16QAM	8.96	9.85
	High	QPSK	9.02	9.86
	High	16QAM	8.98	9.88

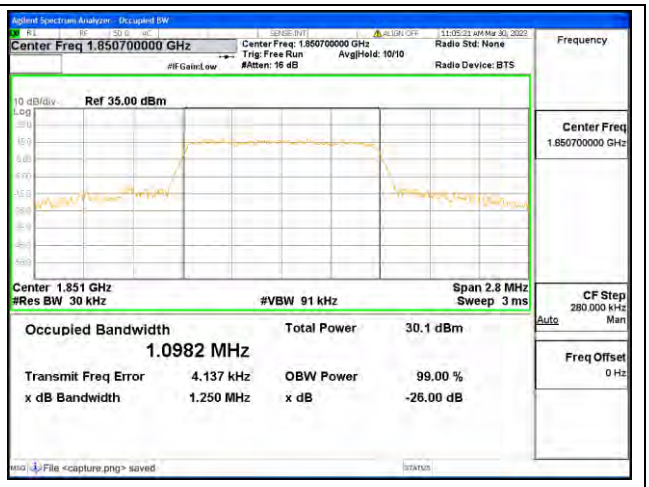
LTE Band 12				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.24
	Low	16QAM	1.10	1.25
	Mid	QPSK	1.10	1.24
	Mid	16QAM	1.10	1.24
	High	QPSK	1.10	1.24
	High	16QAM	1.10	1.25
3	Low	QPSK	2.71	3.05
	Low	16QAM	2.71	3.05
	Mid	QPSK	2.72	3.05
	Mid	16QAM	2.71	2.97
	High	QPSK	2.73	3.92
	High	16QAM	2.72	3.05
5	Low	QPSK	4.50	4.97
	Low	16QAM	4.50	5.00
	Mid	QPSK	4.50	4.97
	Mid	16QAM	4.50	5.00
	High	QPSK	4.50	4.97
	High	16QAM	4.50	4.97
10	Low	QPSK	9.03	9.88
	Low	16QAM	9.00	9.86
	Mid	QPSK	9.00	9.86
	Mid	16QAM	8.98	9.78
	High	QPSK	9.02	9.84
	High	16QAM	8.96	9.82

LTE Band 17				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.50	4.97
	Low	16QAM	4.51	4.96
	Mid	QPSK	4.49	4.96
	Mid	16QAM	4.49	4.94
	High	QPSK	4.51	4.99
	High	16QAM	4.50	4.98
10	Low	QPSK	8.98	9.80
	Low	16QAM	8.96	9.80
	Mid	QPSK	8.96	9.83
	Mid	16QAM	8.94	9.74
	High	QPSK	9.00	9.81
	High	16QAM	8.92	9.41

LTE Band 66				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.25
	Low	16QAM	1.09	1.25
	Mid	QPSK	1.10	1.24
	Mid	16QAM	1.09	1.25
	High	QPSK	1.09	1.24
	High	16QAM	1.10	1.25
3	Low	QPSK	2.72	3.04
	Low	16QAM	2.71	3.04
	Mid	QPSK	2.72	3.05
	Mid	16QAM	2.71	3.04
	High	QPSK	2.72	3.05
	High	16QAM	2.71	3.04
5	Low	QPSK	4.50	4.95
	Low	16QAM	4.50	4.96
	Mid	QPSK	4.50	4.98
	Mid	16QAM	4.50	4.98
	High	QPSK	4.51	4.99
	High	16QAM	4.49	4.98
10	Low	QPSK	9.02	9.89
	Low	16QAM	8.97	9.89
	Mid	QPSK	9.01	9.84
	Mid	16QAM	8.98	9.87
	High	QPSK	8.99	9.91
	High	16QAM	8.99	9.85
15	Low	QPSK	13.50	14.79
	Low	16QAM	13.50	14.96
	Mid	QPSK	13.49	14.87
	Mid	16QAM	13.48	14.91
	High	QPSK	13.47	14.86
	High	16QAM	13.48	14.99
20	Low	QPSK	18.03	19.75
	Low	16QAM	18.05	19.83
	Mid	QPSK	17.99	19.81
	Mid	16QAM	17.99	19.76
	High	QPSK	17.97	19.70
	High	16QAM	17.99	19.80

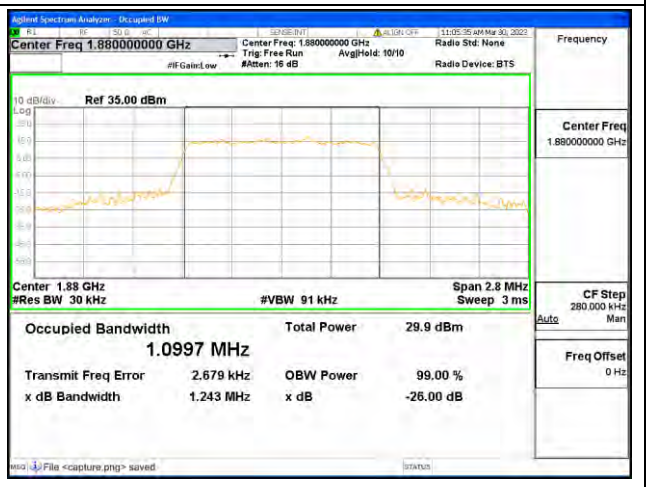
LTE Band 71				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.49	4.96
	Low	16QAM	4.49	4.86
	Mid	QPSK	4.50	4.95
	Mid	16QAM	4.50	5.01
	High	QPSK	4.50	4.96
	High	16QAM	4.49	4.98
10	Low	QPSK	9.02	9.98
	Low	16QAM	8.98	9.85
	Mid	QPSK	9.00	9.85
	Mid	16QAM	8.97	9.85
	High	QPSK	9.01	9.86
	High	16QAM	8.96	9.85
15	Low	QPSK	13.58	14.88
	Low	16QAM	13.56	14.91
	Mid	QPSK	13.49	14.84
	Mid	16QAM	13.45	14.80
	High	QPSK	13.49	14.84
	High	16QAM	13.50	14.89
20	Low	QPSK	18.05	19.76
	Low	16QAM	18.11	19.76
	Mid	QPSK	17.97	19.73
	Mid	16QAM	17.96	19.69
	High	QPSK	18.02	19.75
	High	16QAM	18.02	19.71

Band2 / 1.4MHz / QPSK/ Low CH

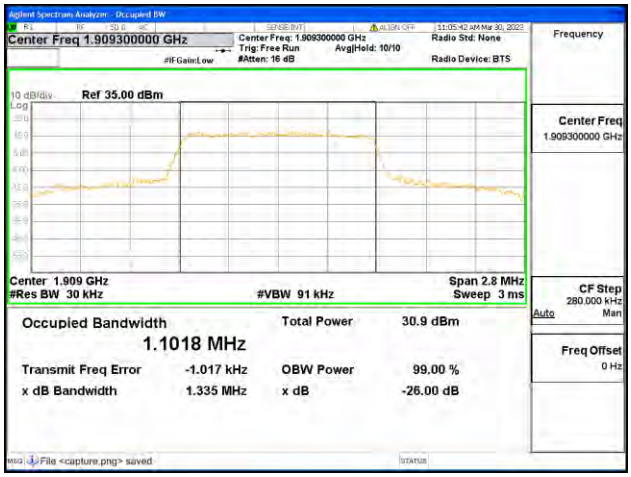


Band2 / 1.4MHz / 16QAM/ Low CH

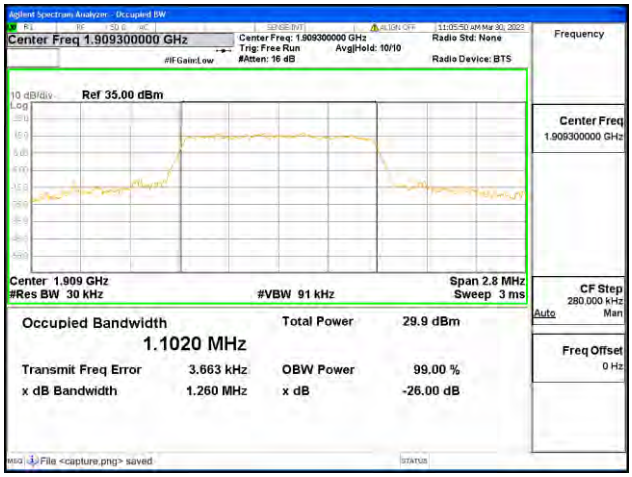
Band2 / 1.4MHz / QPSK/ Mid CH



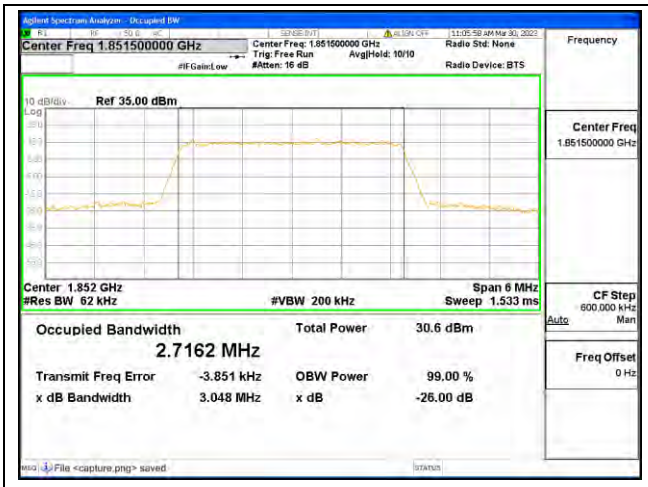
Band2 / 1.4MHz / 16QAM/ Mid CH



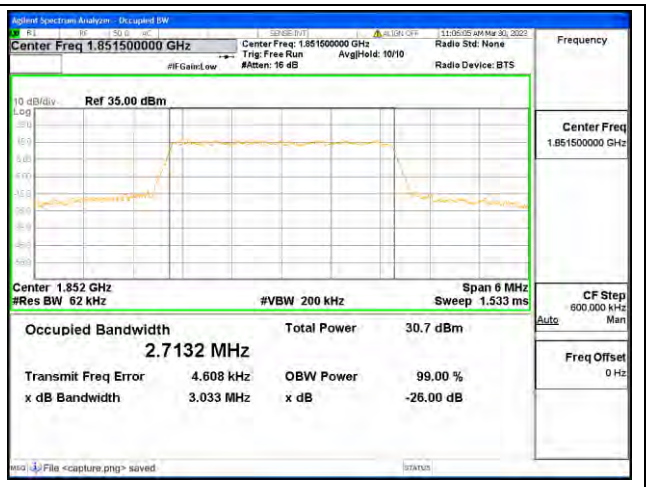
Band2 / 1.4MHz / QPSK/ High CH



Band2 / 1.4MHz / 16QAM/ High CH



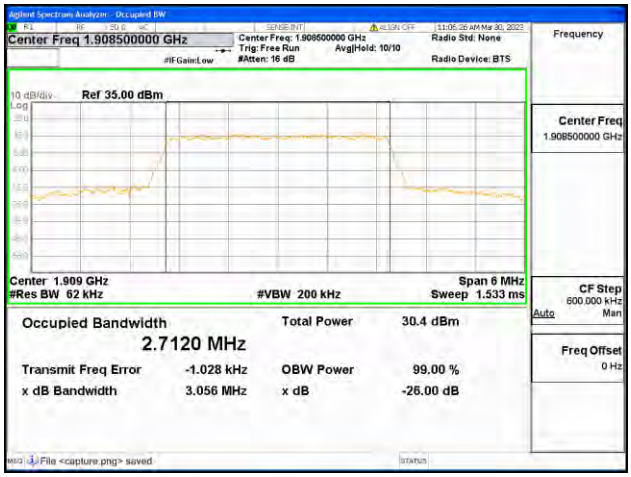
Band2 / 3MHz / QPSK/ Low CH



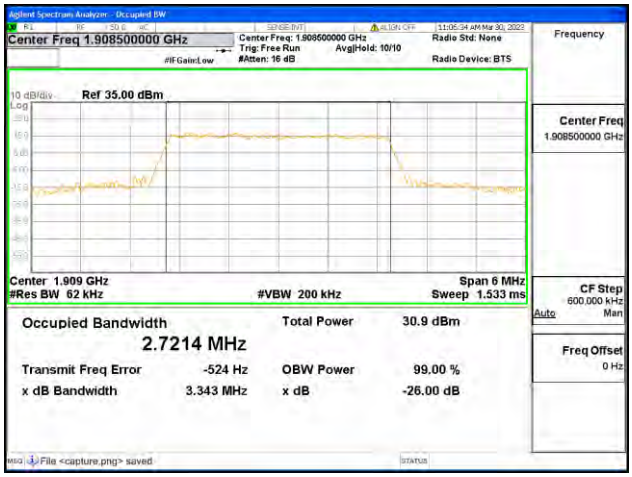
Band2 / 3MHz / 16QAM/ Low CH

Band2 / 3MHz / QPSK/ Mid CH

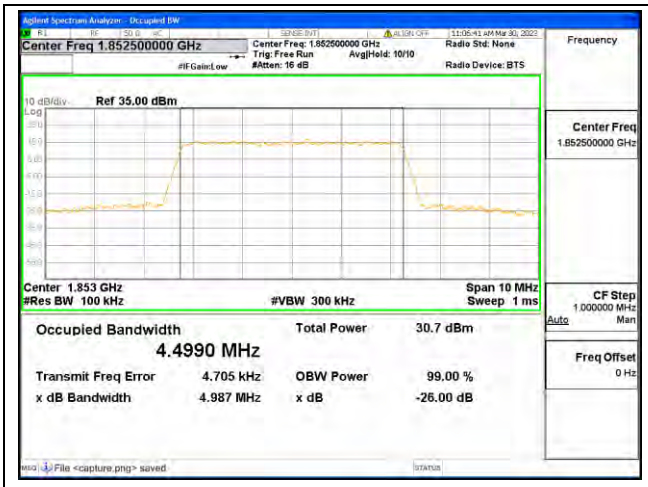
Band2 / 3MHz / 16QAM/ Mid CH



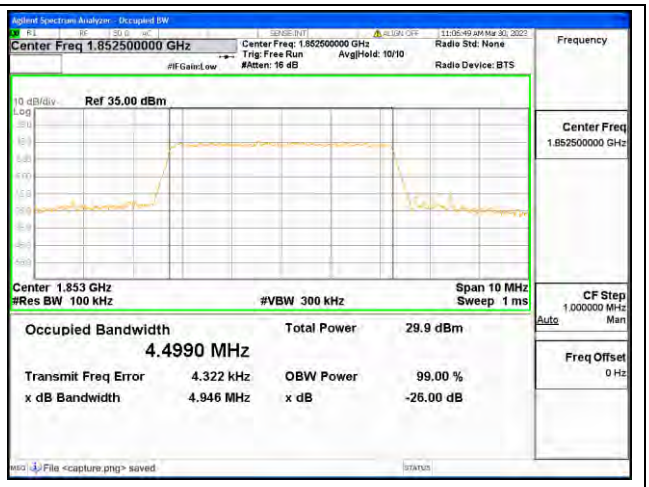
Band2 / 3MHz / QPSK/ High CH



Band2 / 3MHz / 16QAM/ High CH



Band2 / 5MHz / QPSK/ Low CH

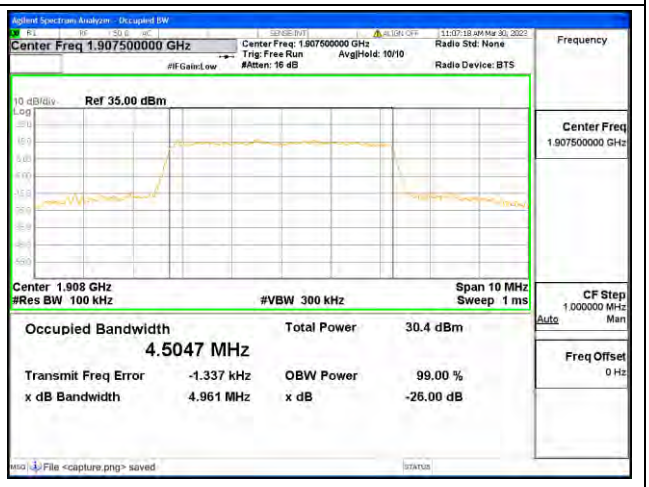


Band2 / 5MHz / 16QAM/ Low CH

Band2 / 5MHz / QPSK/ Mid CH

Band2 / 5MHz / 16QAM/ Mid CH

Band2 / 5MHz / QPSK/ High CH

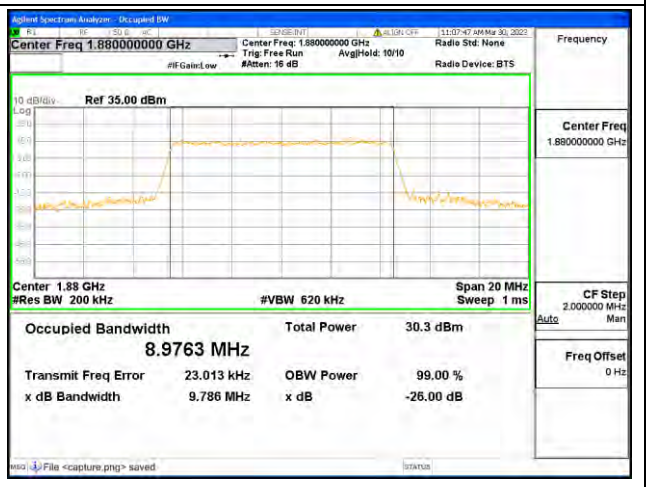


Band2 / 5MHz / 16QAM/ High CH

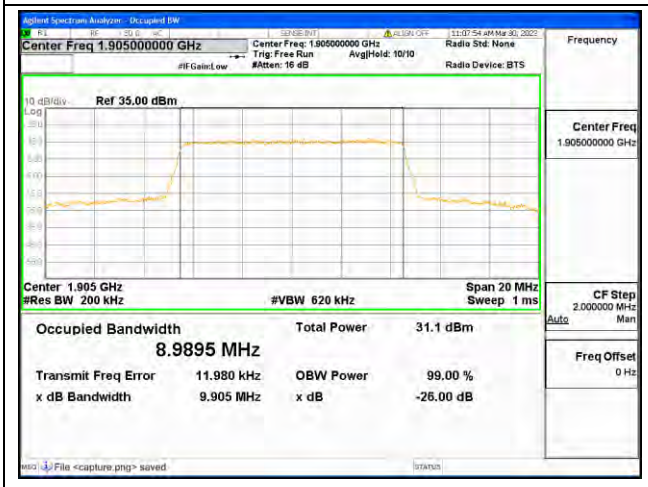
Band2 / 10MHz / QPSK/ Low CH

Band2 / 10MHz / 16QAM/ Low CH

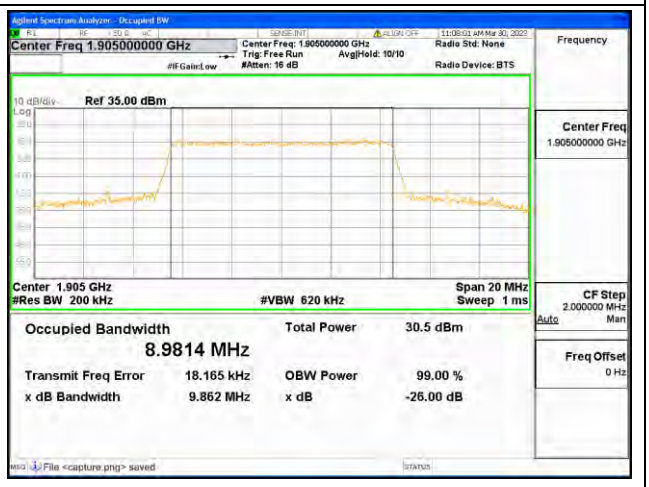
Band2 / 10MHz / QPSK/ Mid CH



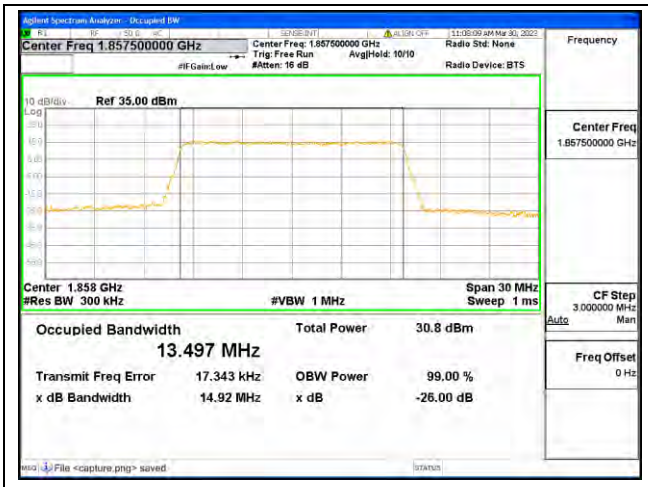
Band2 / 10MHz / 16QAM/ Mid CH



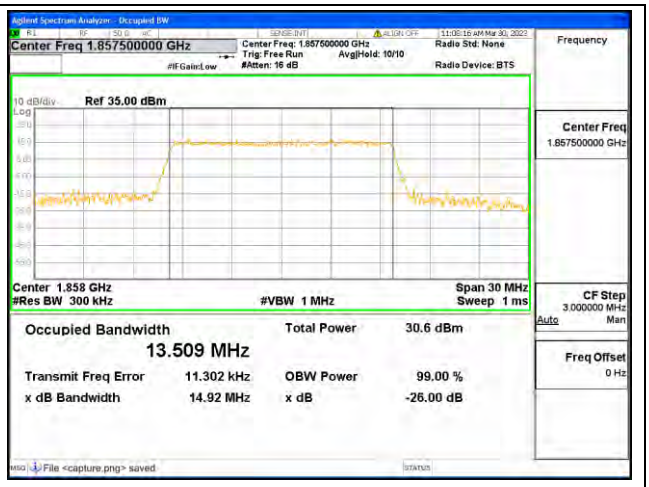
Band2 / 10MHz / QPSK/ High CH



Band2 / 10MHz / 16QAM/ High CH



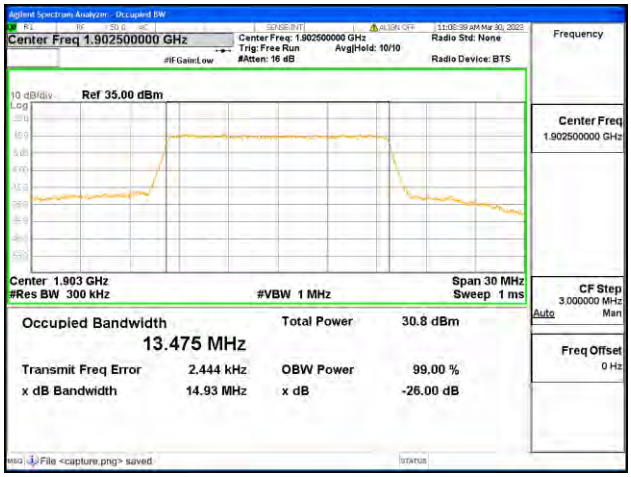
Band2 / 15MHz / QPSK/ Low CH



Band2 / 15MHz / 16QAM/ Low CH

Band2 / 15MHz / QPSK/ Mid CH

Band2 / 15MHz / 16QAM/ Mid CH



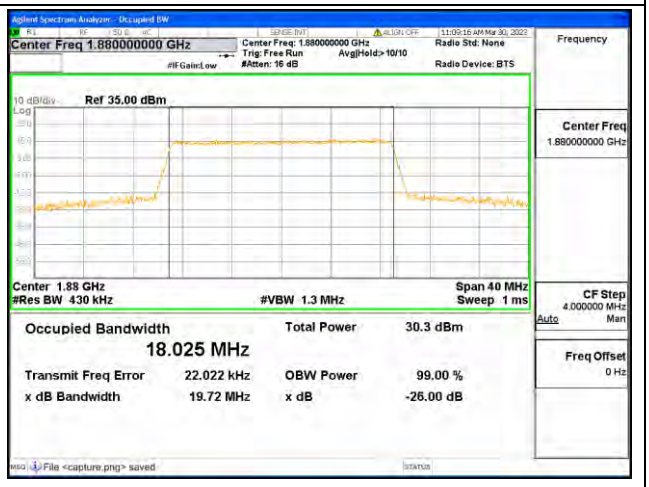
Band2 / 15MHz / QPSK/ High CH

Band2 / 15MHz / 16QAM/ High CH

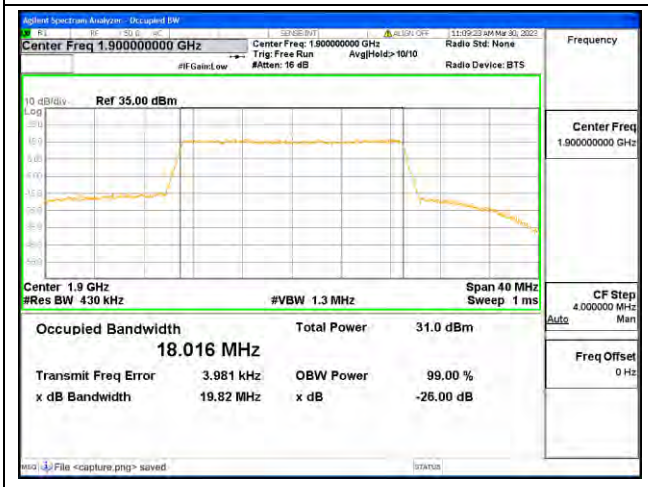
Band2 / 20MHz / QPSK/ Low CH

Band2 / 20MHz / 16QAM/ Low CH

Band2 / 20MHz / QPSK/ Mid CH



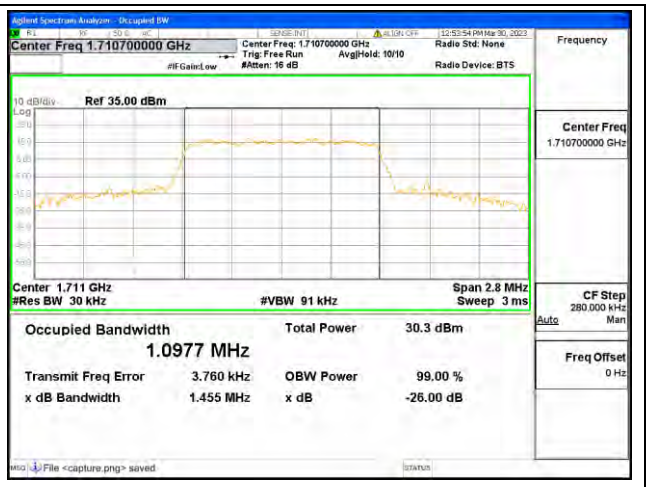
Band2 / 20MHz / 16QAM/ Mid CH



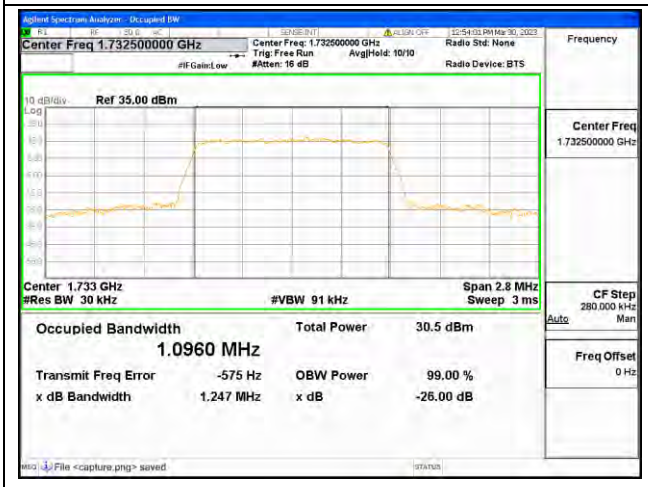
Band2 / 20MHz / QPSK/ High CH

Band2 / 20MHz / 16QAM/ High CH

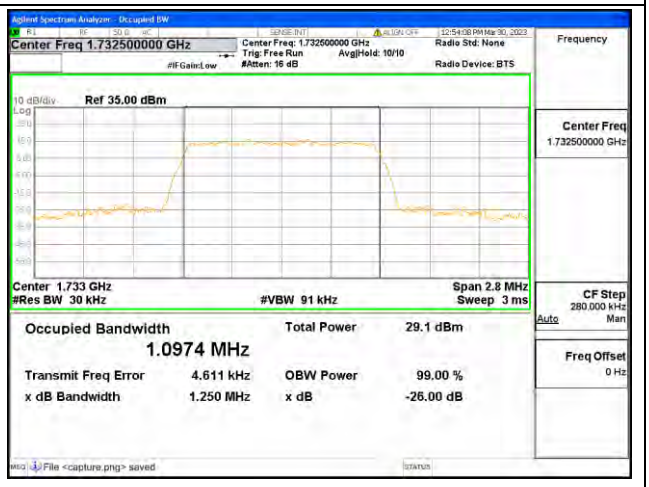
Band4 / 1.4MHz / QPSK/ Low CH



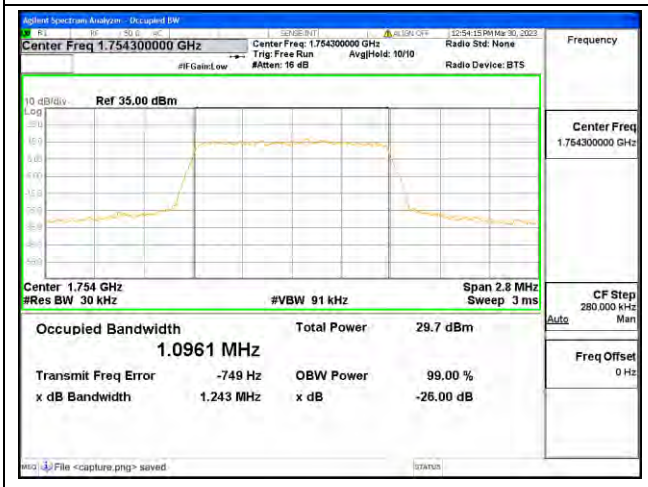
Band4 / 1.4MHz / 16QAM/ Low CH



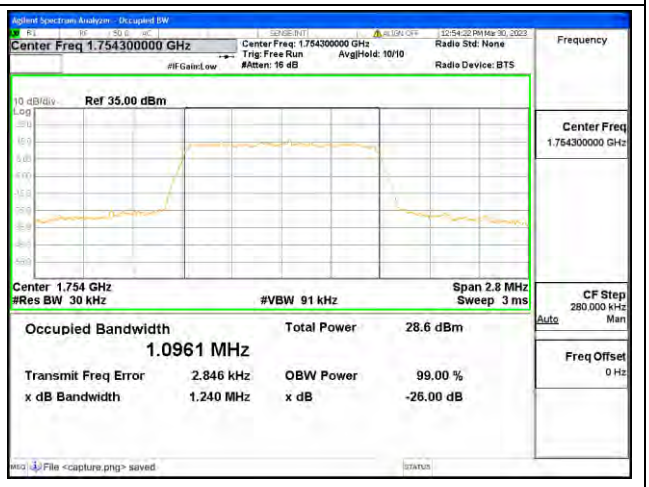
Band4 / 1.4MHz / QPSK/ Mid CH



Band4 / 1.4MHz / 16QAM/ Mid CH

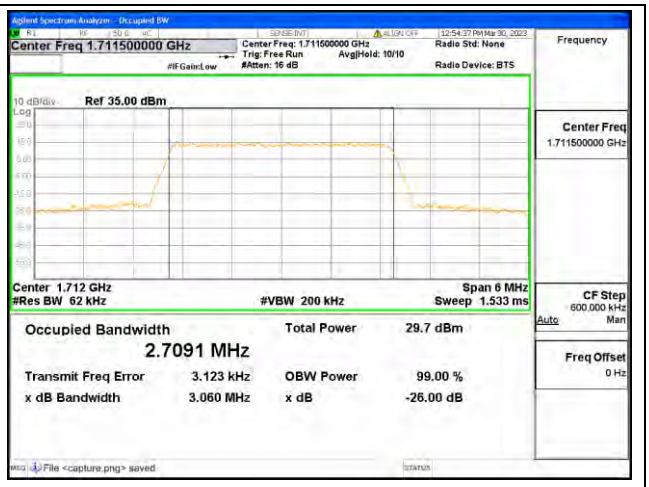


Band4 / 1.4MHz / QPSK/ High CH



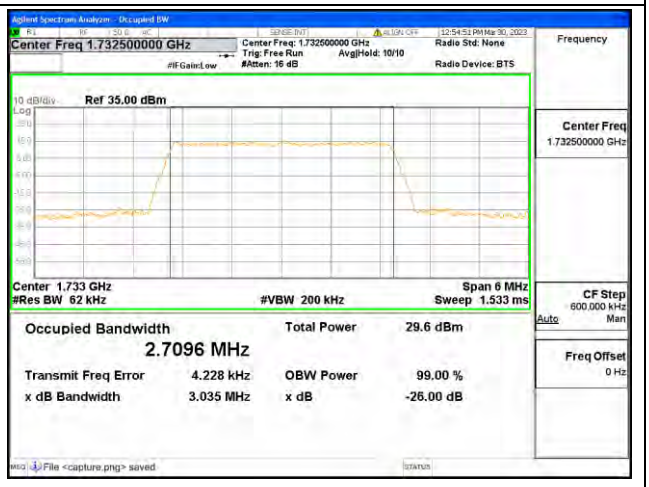
Band4 / 1.4MHz / 16QAM/ High CH

Band4 / 3MHz / QPSK/ Low CH

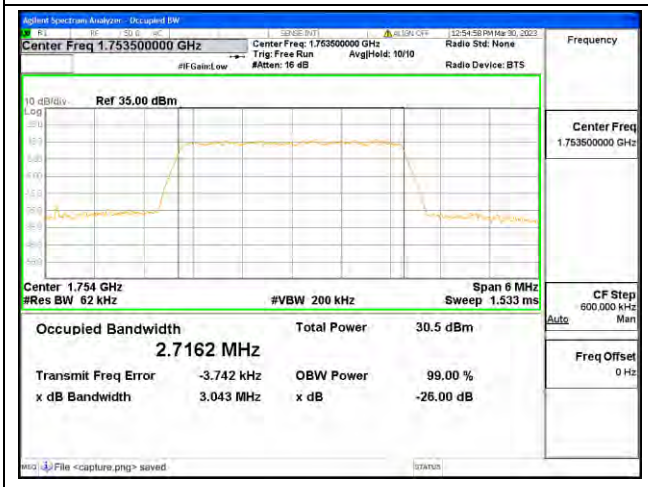


Band4 / 3MHz / 16QAM/ Low CH

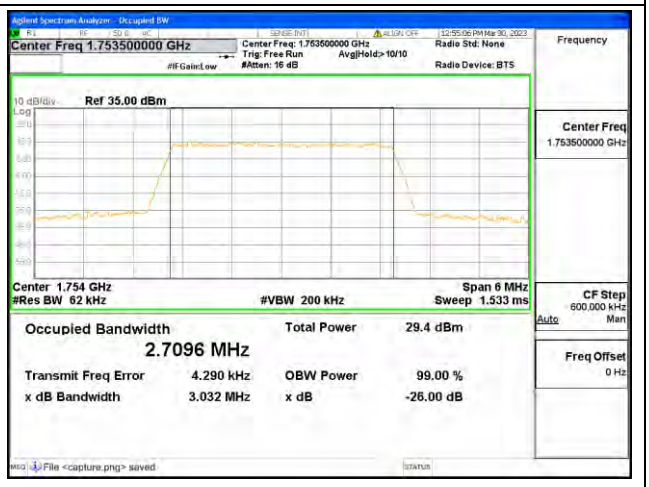
Band4 / 3MHz / QPSK/ Mid CH



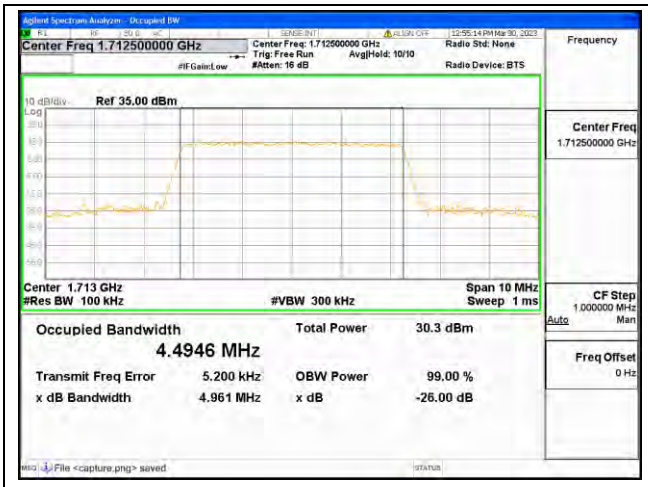
Band4 / 3MHz / 16QAM/ Mid CH



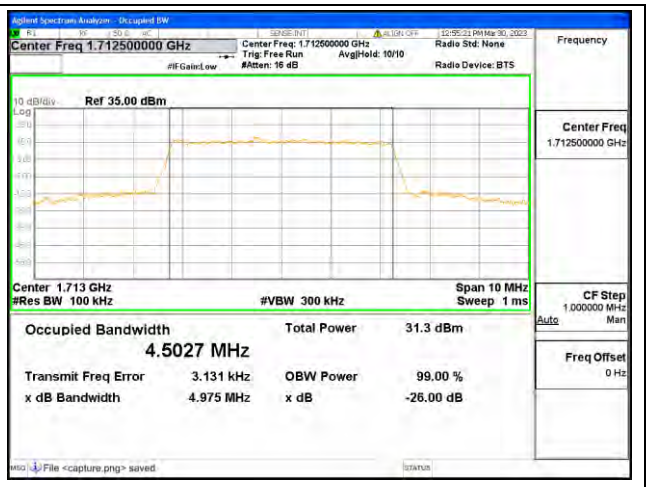
Band4 / 3MHz / QPSK/ High CH



Band4 / 3MHz / 16QAM/ High CH



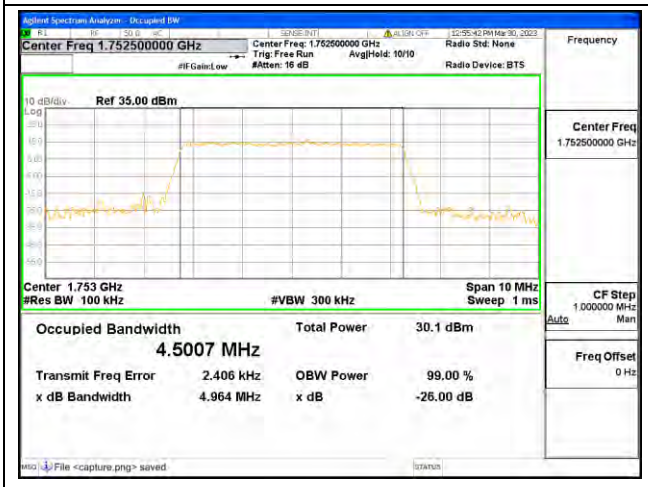
Band4 / 5MHz / QPSK/ Low CH



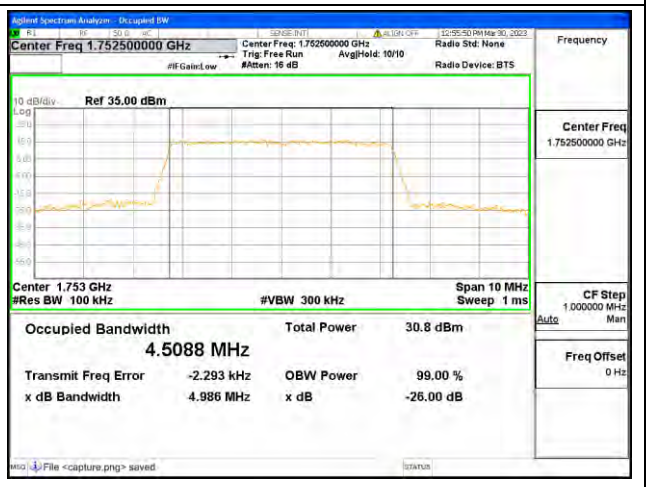
Band4 / 5MHz / 16QAM/ Low CH

Band4 / 5MHz / QPSK/ Mid CH

Band4 / 5MHz / 16QAM/ Mid CH

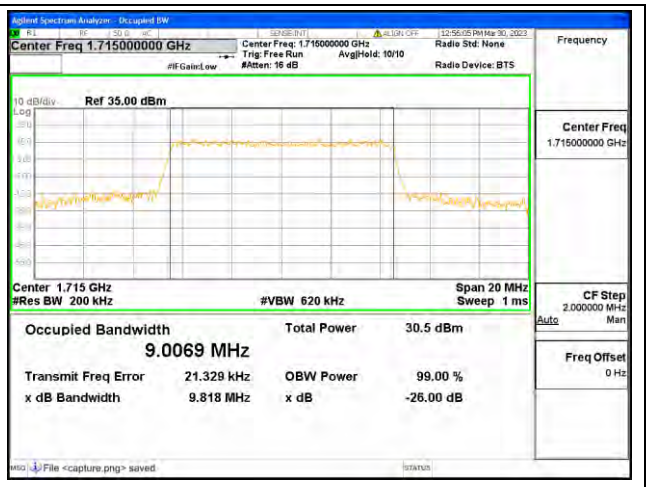


Band4 / 5MHz / QPSK/ High CH

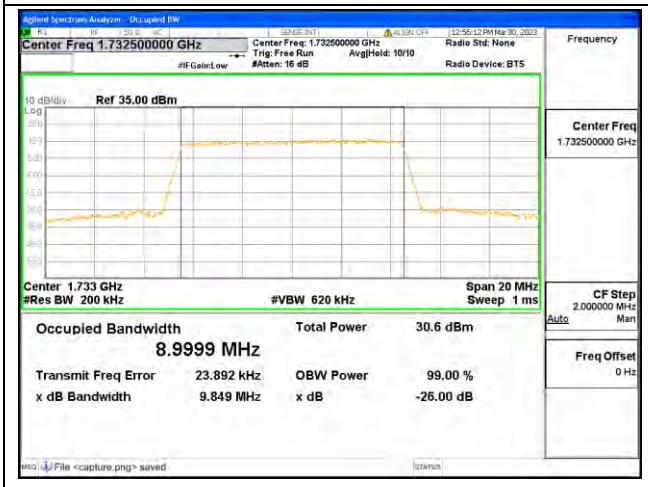


Band4 / 5MHz / 16QAM/ High CH

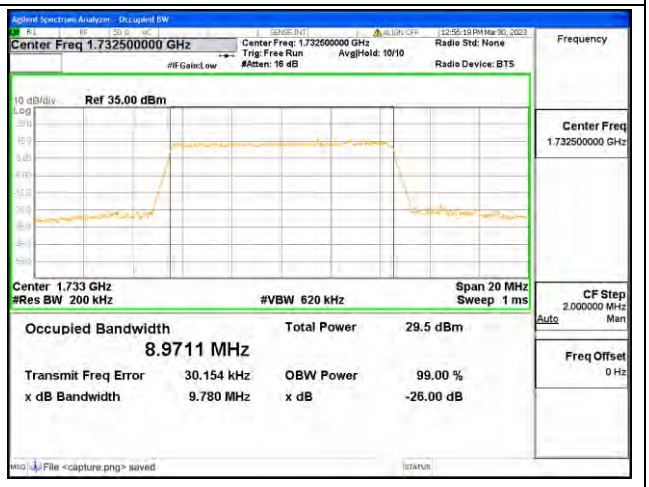
Band4 / 10MHz / QPSK/ Low CH



Band4 / 10MHz / 16QAM/ Low CH

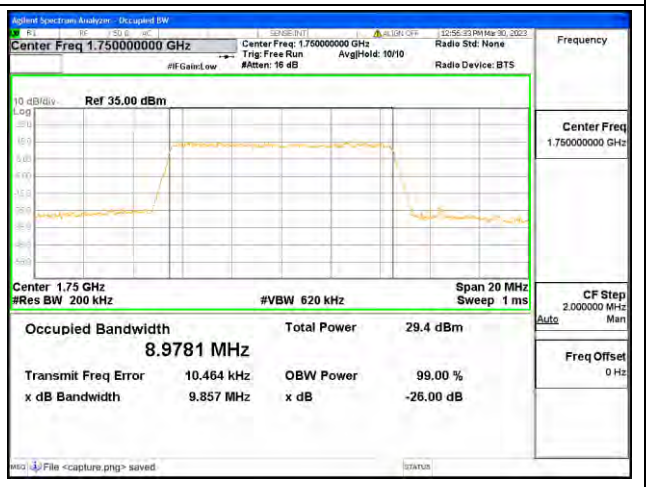


Band4 / 10MHz / QPSK/ Mid CH



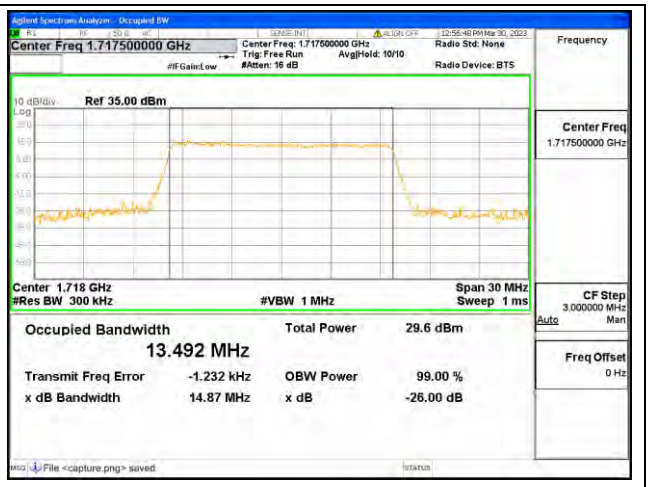
Band4 / 10MHz / 16QAM/ Mid CH

Band4 / 10MHz / QPSK/ High CH



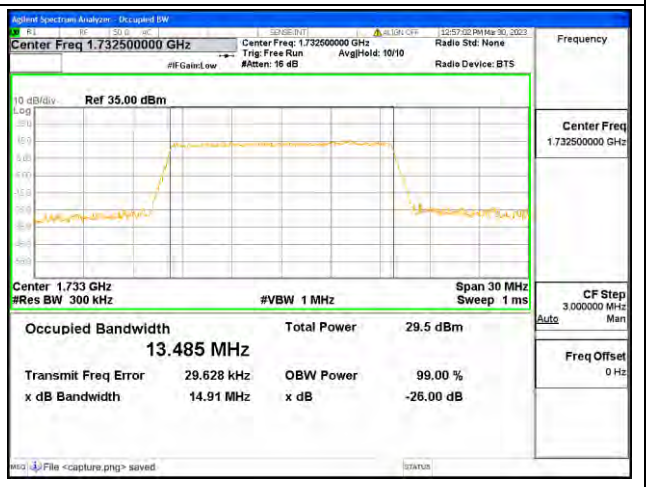
Band4 / 10MHz / 16QAM/ High CH

Band4 / 15MHz / QPSK/ Low CH

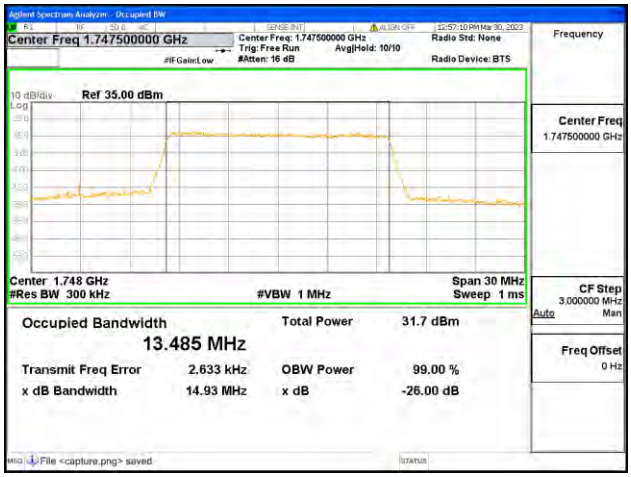


Band4 / 15MHz / 16QAM/ Low CH

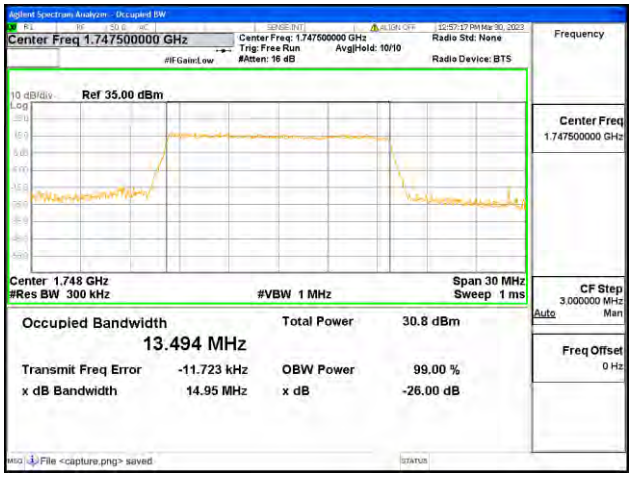
Band4 / 15MHz / QPSK/ Mid CH



Band4 / 15MHz / 16QAM/ Mid CH



Band4 / 15MHz / QPSK/ High CH

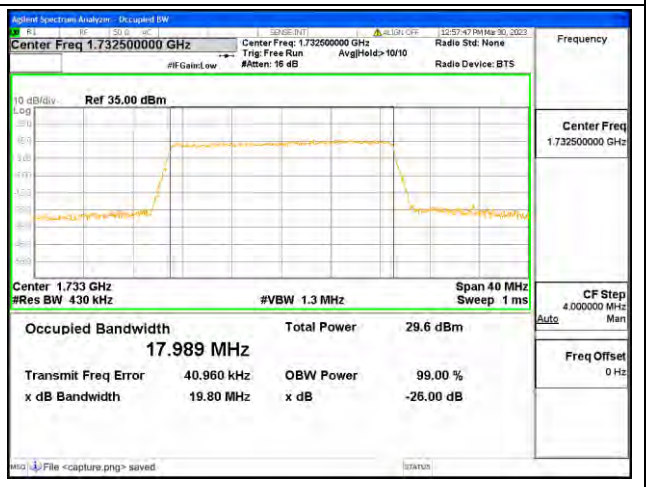


Band4 / 15MHz / 16QAM/ High CH

Band4 / 20MHz / QPSK/ Low CH

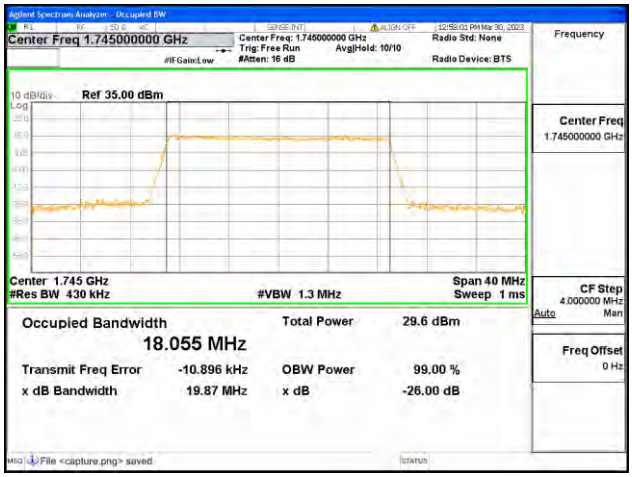
Band4 / 20MHz / 16QAM/ Low CH

Band4 / 20MHz / QPSK/ Mid CH



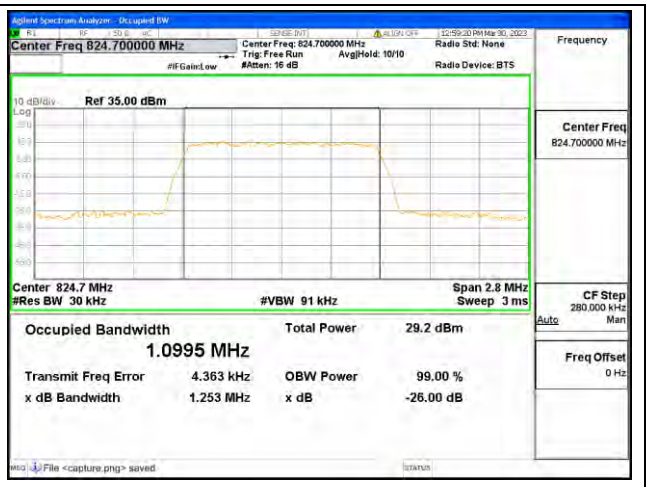
Band4 / 20MHz / 16QAM/ Mid CH

Band4 / 20MHz / QPSK/ High CH



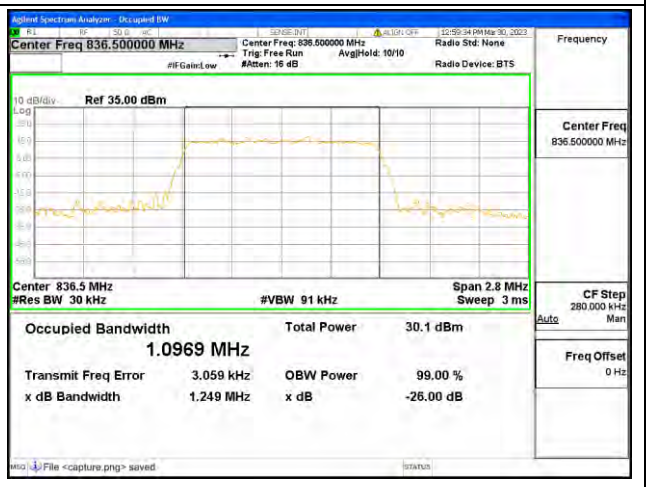
Band4 / 20MHz / 16QAM/ High CH

Band5 / 1.4MHz / QPSK/ Low CH

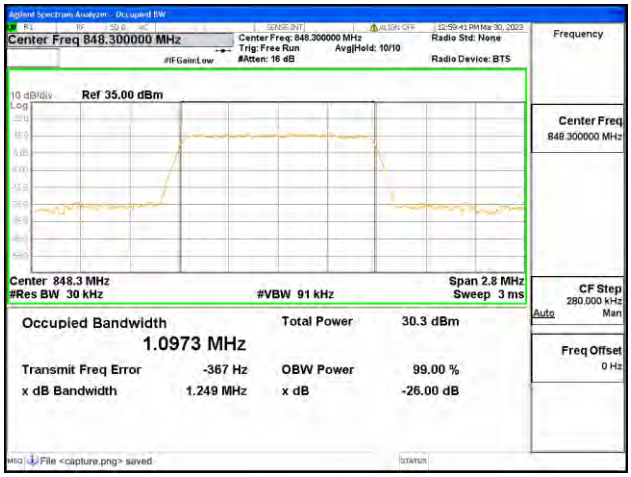


Band5 / 1.4MHz / 16QAM/ Low CH

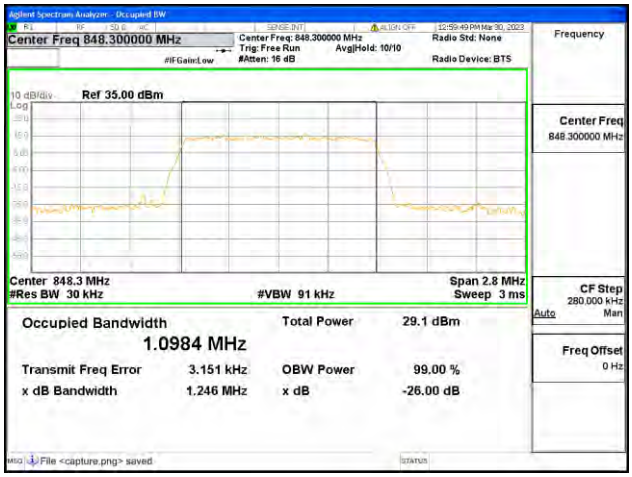
Band5 / 1.4MHz / QPSK/ Mid CH



Band5 / 1.4MHz / 16QAM/ Mid CH

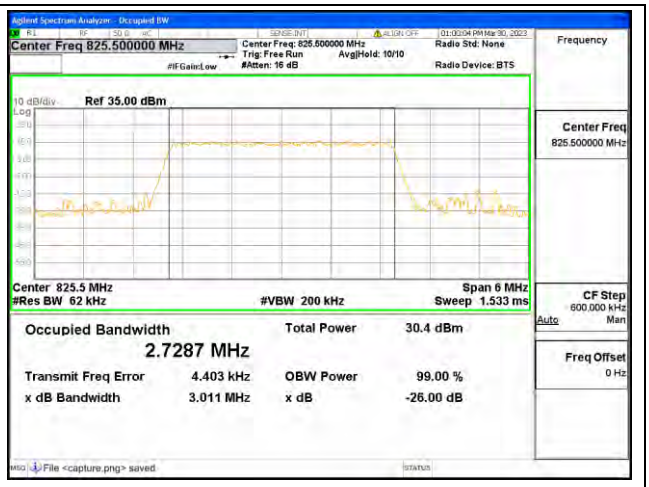


Band5 / 1.4MHz / QPSK/ High CH

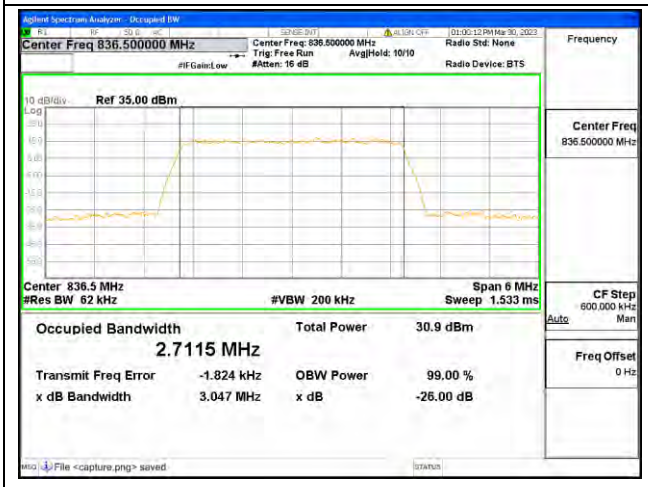


Band5 / 1.4MHz / 16QAM/ High CH

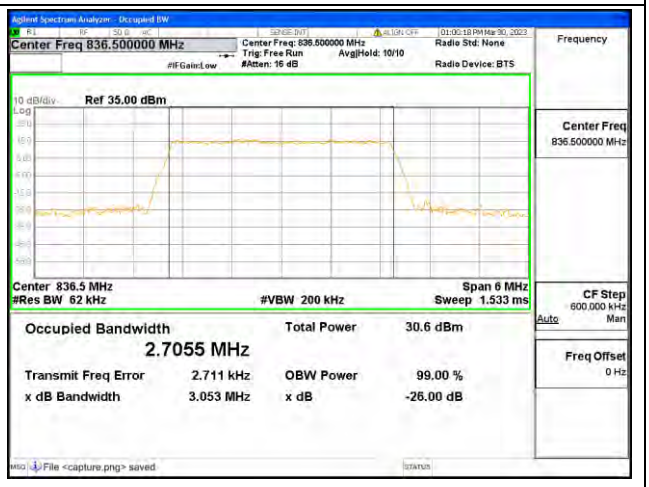
Band5 / 3MHz / QPSK/ Low CH



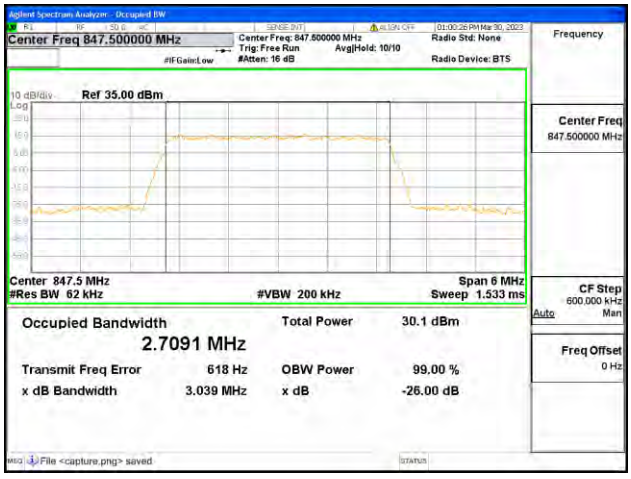
Band5 / 3MHz / 16QAM/ Low CH



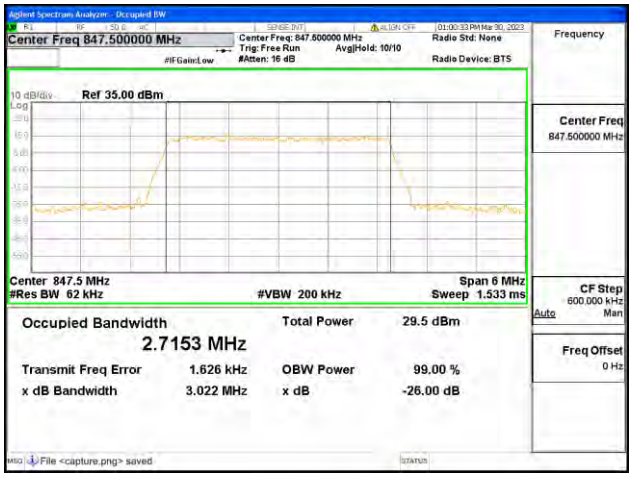
Band5 / 3MHz / QPSK/ Mid CH



Band5 / 3MHz / 16QAM/ Mid CH

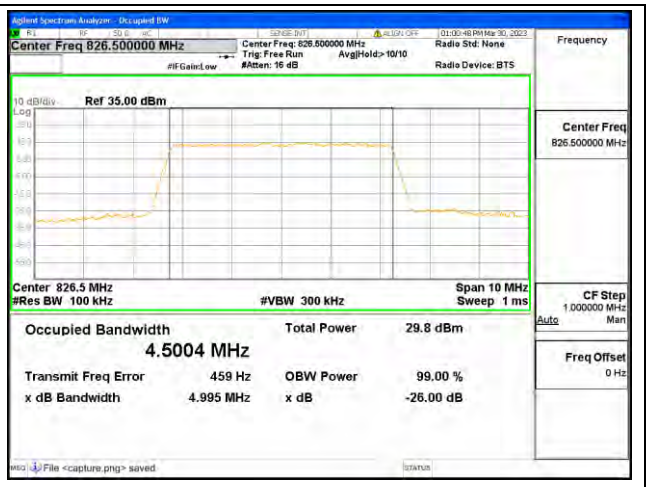


Band5 / 3MHz / QPSK/ High CH



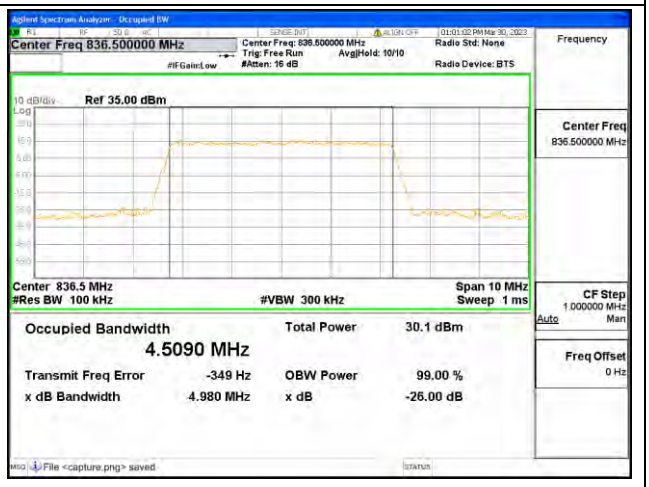
Band5 / 3MHz / 16QAM/ High CH

Band5 / 5MHz / QPSK/ Low CH



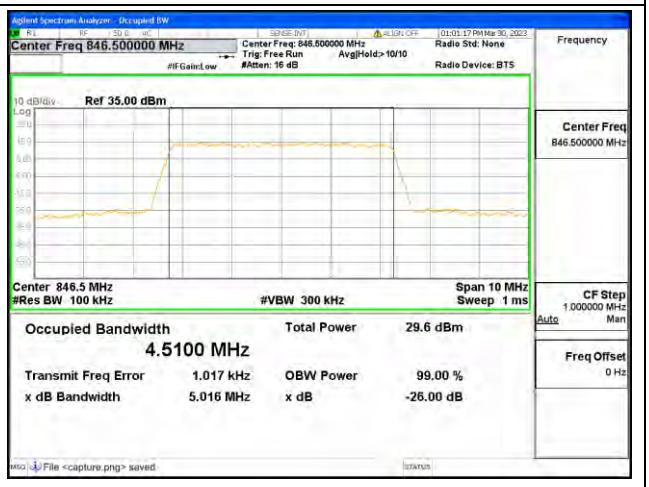
Band5 / 5MHz / 16QAM/ Low CH

Band5 / 5MHz / QPSK/ Mid CH



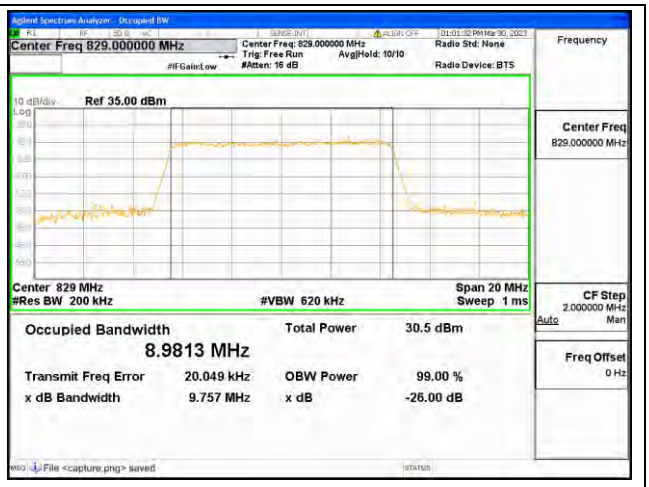
Band5 / 5MHz / 16QAM/ Mid CH

Band5 / 5MHz / QPSK/ High CH



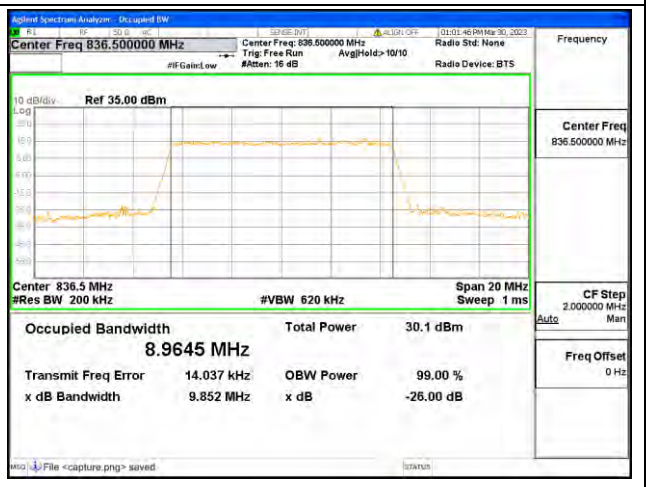
Band5 / 5MHz / 16QAM/ High CH

Band5 / 10MHz / QPSK/ Low CH



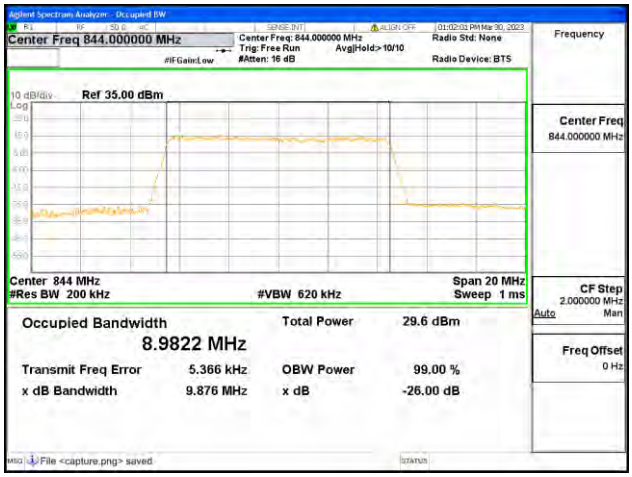
Band5 / 10MHz / 16QAM/ Low CH

Band5 / 10MHz / QPSK/ Mid CH



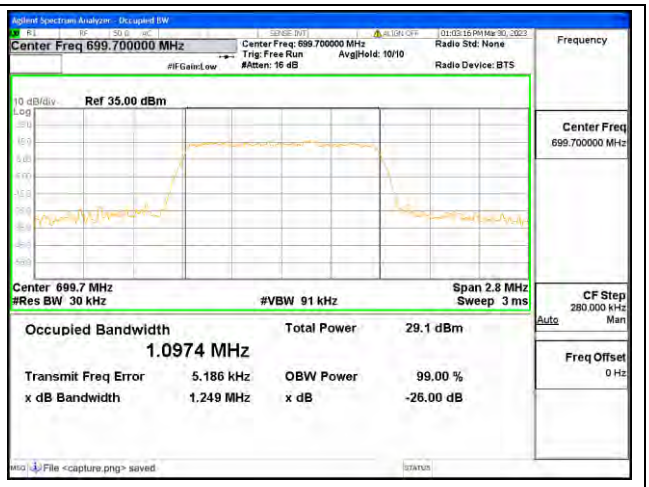
Band5 / 10MHz / 16QAM/ Mid CH

Band5 / 10MHz / QPSK/ High CH

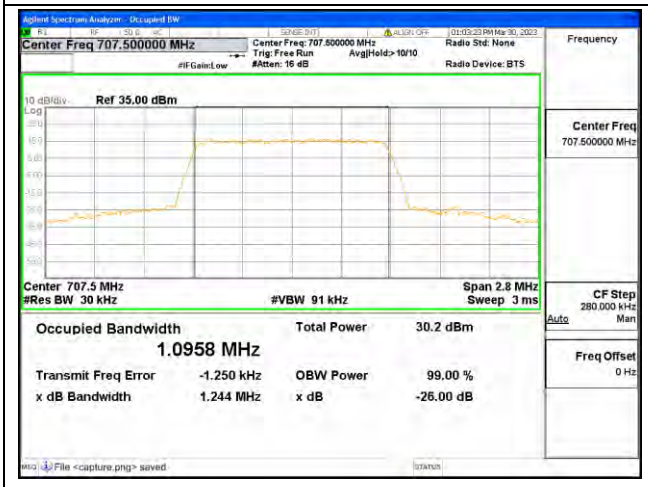


Band5 / 10MHz / 16QAM/ High CH

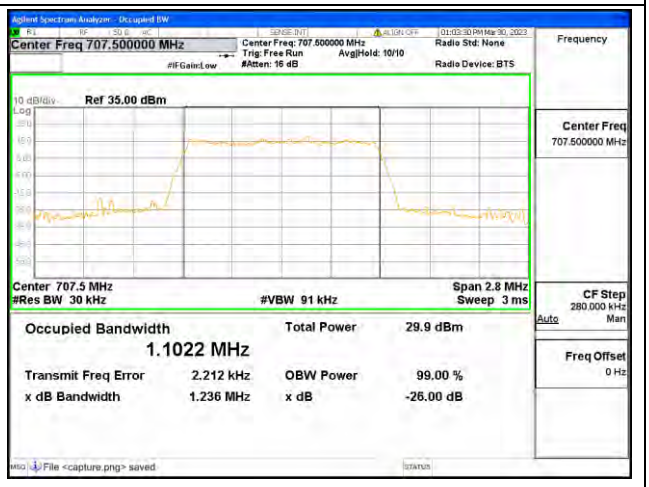
Band12 / 1.4MHz / QPSK/ Low CH



Band12 / 1.4MHz / 16QAM/ Low CH

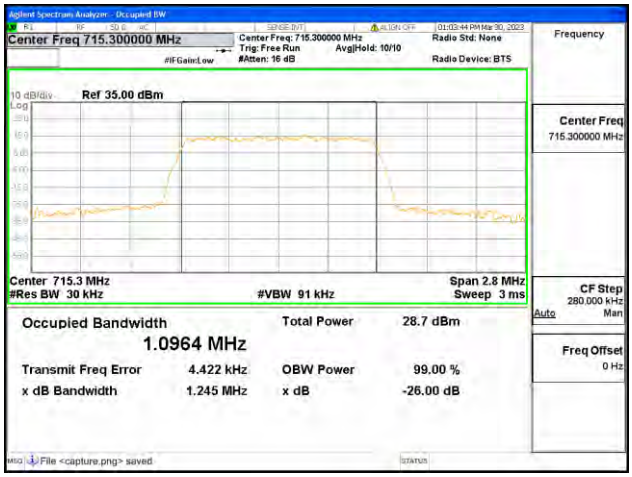


Band12 / 1.4MHz / QPSK/ Mid CH



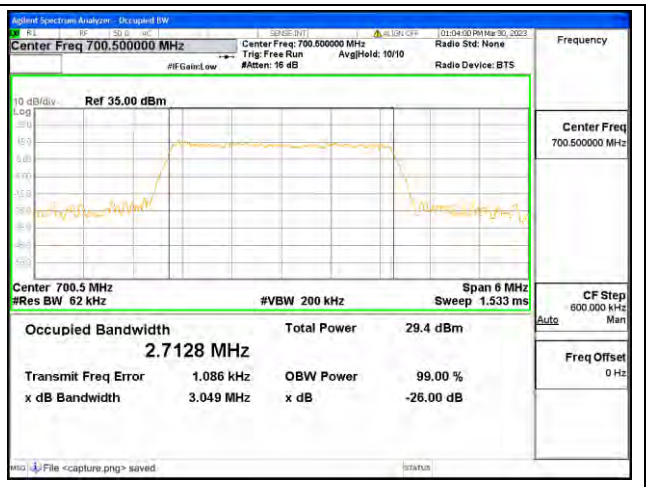
Band12 / 1.4MHz / 16QAM/ Mid CH

Band12 / 1.4MHz / QPSK/ High CH

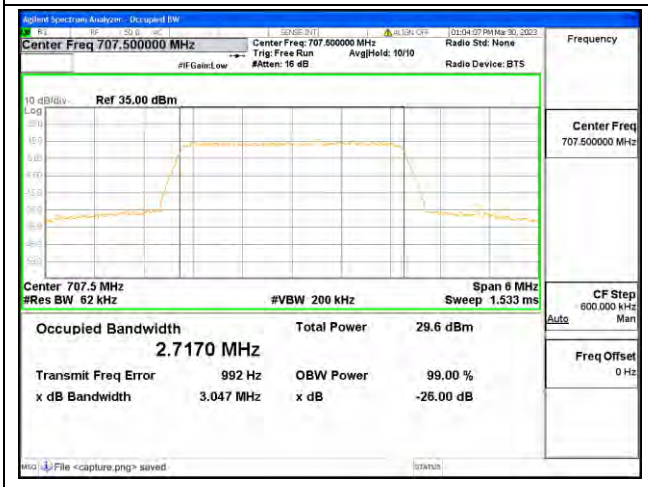


Band12 / 1.4MHz / 16QAM/ High CH

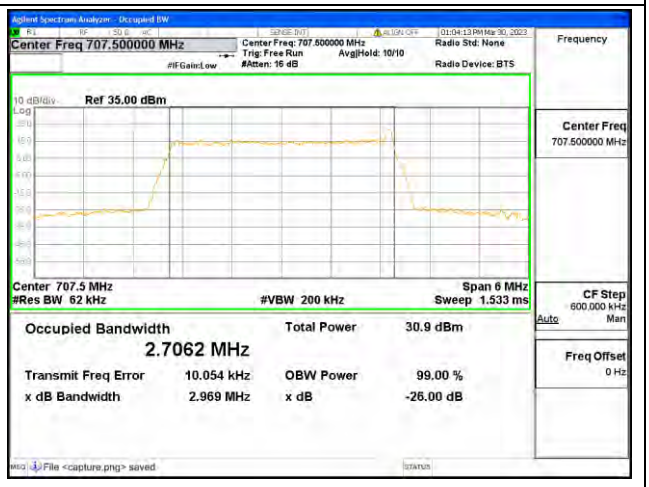
Band12 / 3MHz / QPSK/ Low CH



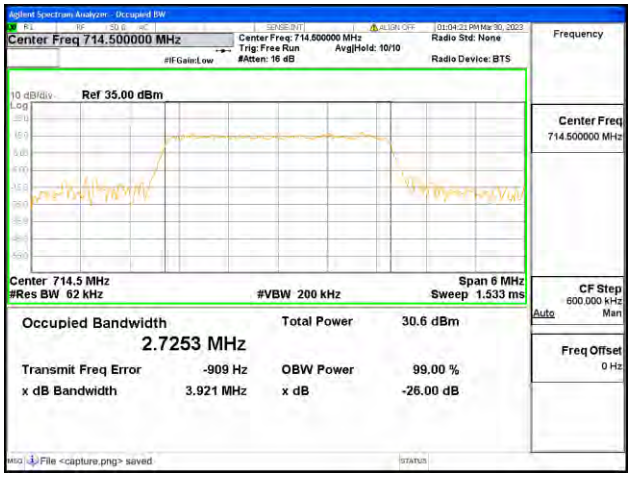
Band12 / 3MHz / 16QAM/ Low CH



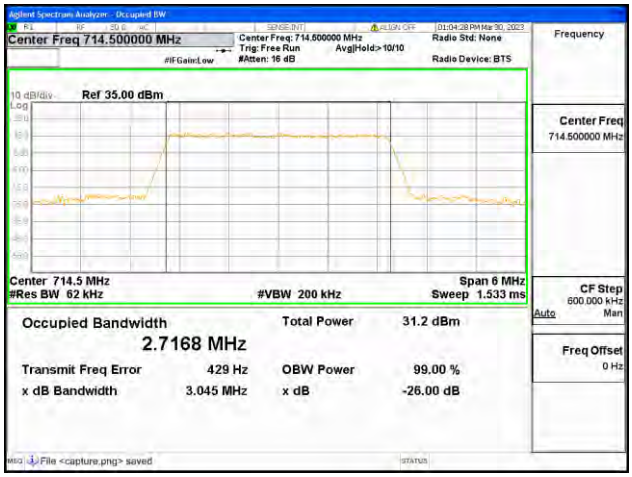
Band12 / 3MHz / QPSK/ Mid CH



Band12 / 3MHz / 16QAM/ Mid CH



Band12 / 3MHz / QPSK/ High CH



Band12 / 3MHz / 16QAM/ High CH

Band12 / 5MHz / QPSK/ Low CH

Band12 / 5MHz / 16QAM/ Low CH

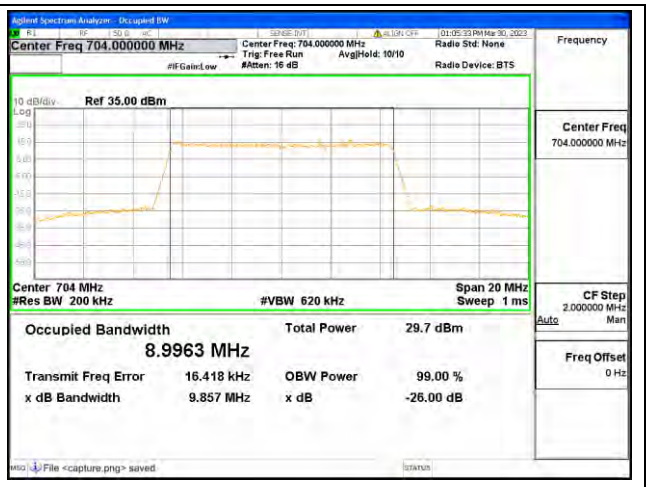
Band12 / 5MHz / QPSK/ Mid CH

Band12 / 5MHz / 16QAM/ Mid CH

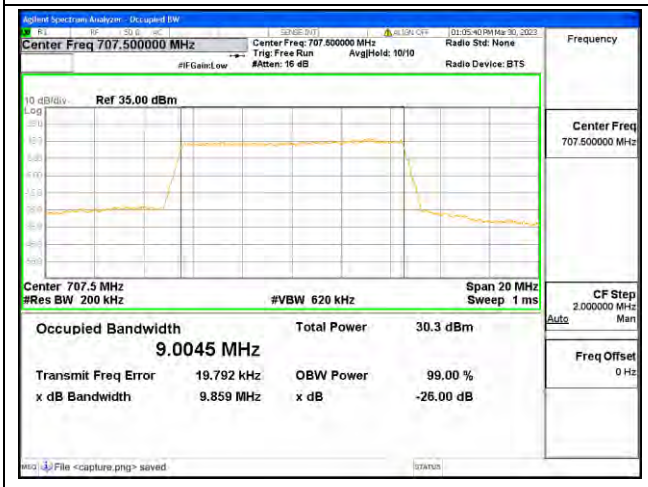
Band12 / 5MHz / QPSK/ High CH

Band12 / 5MHz / 16QAM/ High CH

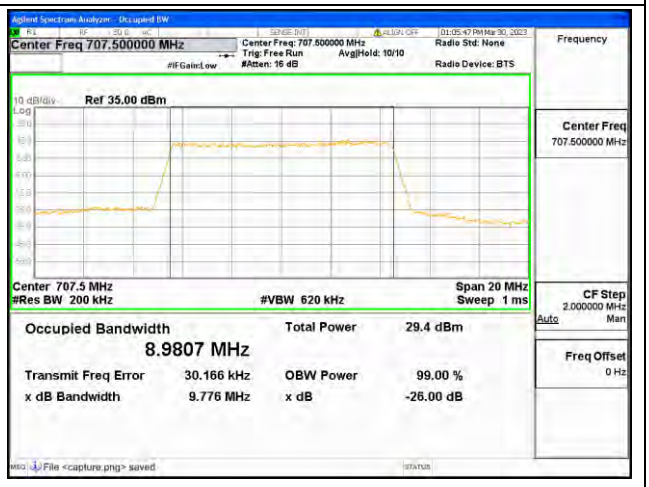
Band12 / 10MHz / QPSK/ Low CH



Band12 / 10MHz / 16QAM/ Low CH

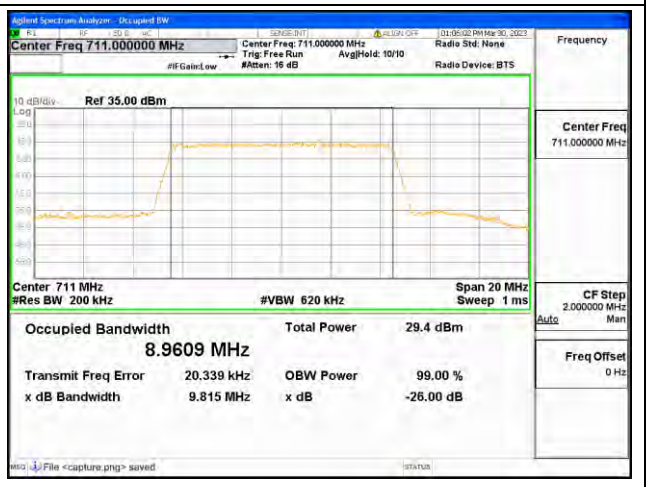


Band12 / 10MHz / QPSK/ Mid CH

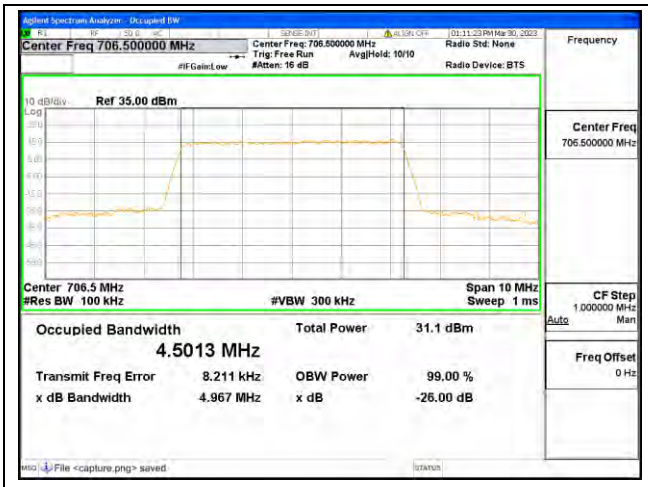


Band12 / 10MHz / 16QAM/ Mid CH

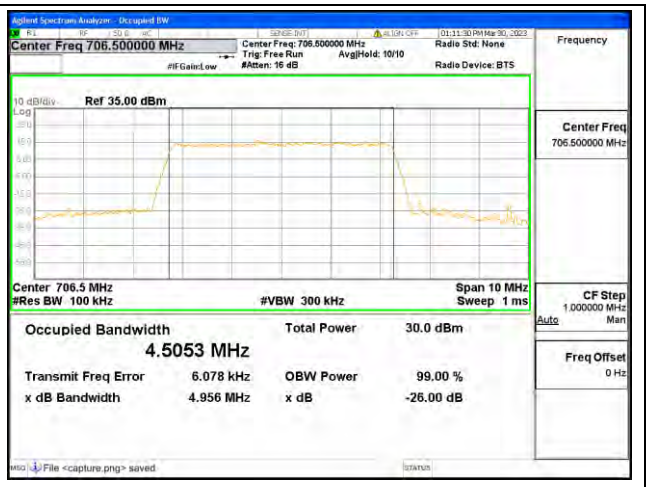
Band12 / 10MHz / QPSK/ High CH



Band12 / 10MHz / 16QAM/ High CH



Band17 / 5MHz / QPSK/ Low CH



Band17 / 5MHz / 16QAM/ Low CH

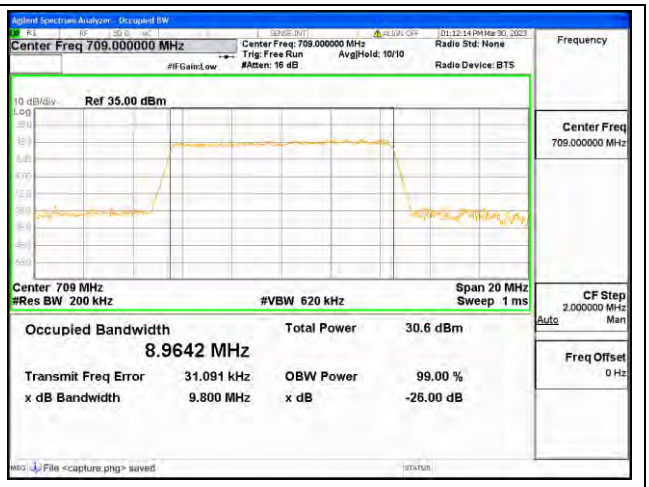
Band17 / 5MHz / QPSK/ Mid CH

Band17 / 5MHz / 16QAM/ Mid CH

Band17 / 5MHz / QPSK/ High CH

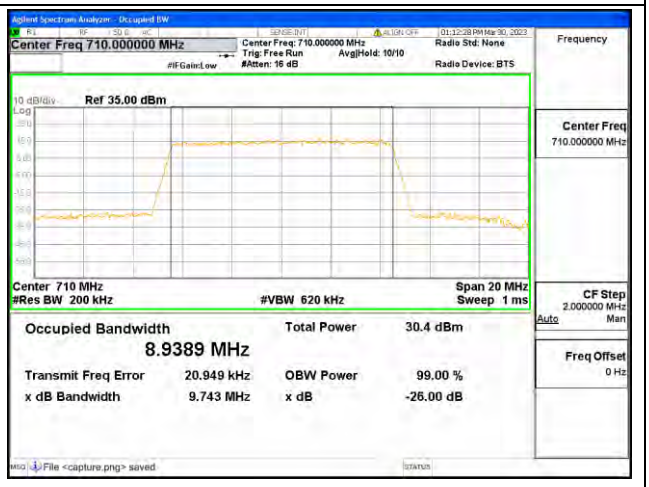
Band17 / 5MHz / 16QAM/ High CH

Band17 / 10MHz / QPSK/ Low CH



Band17 / 10MHz / 16QAM/ Low CH

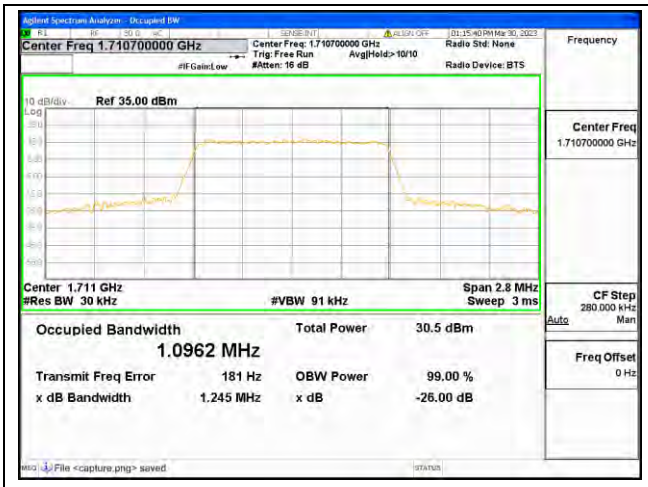
Band17 / 10MHz / QPSK/ Mid CH



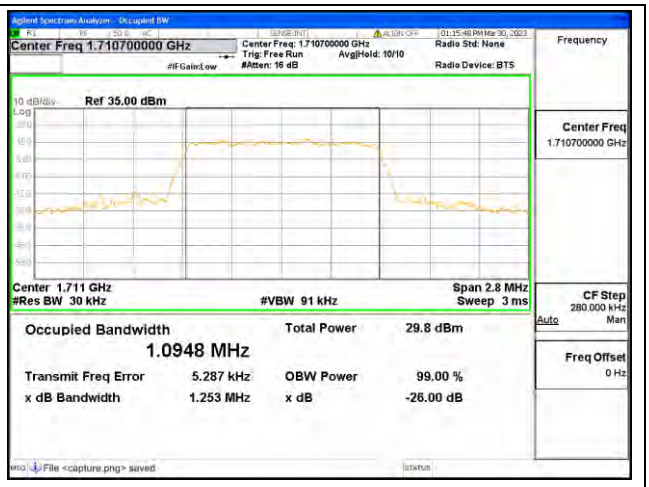
Band17 / 10MHz / 16QAM/ Mid CH

Band17 / 10MHz / QPSK/ High CH

Band17 / 10MHz / 16QAM/ High CH

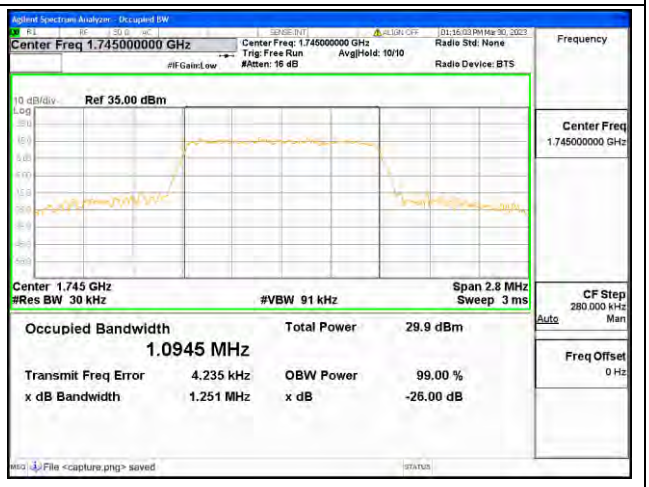


Band66 / 1.4MHz / QPSK/ Low CH

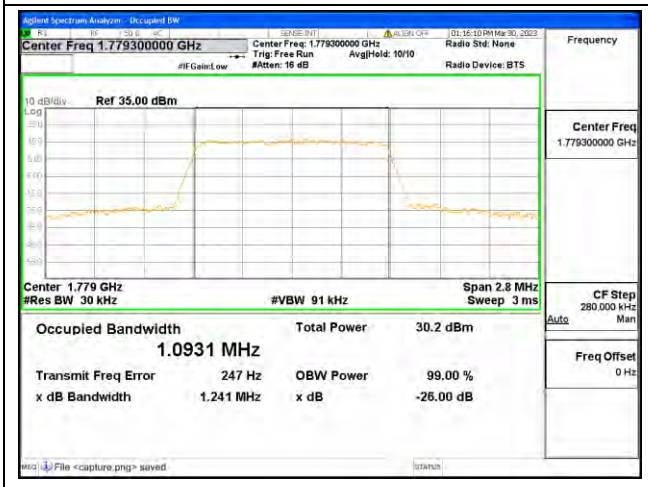


Band66 / 1.4MHz / 16QAM/ Low CH

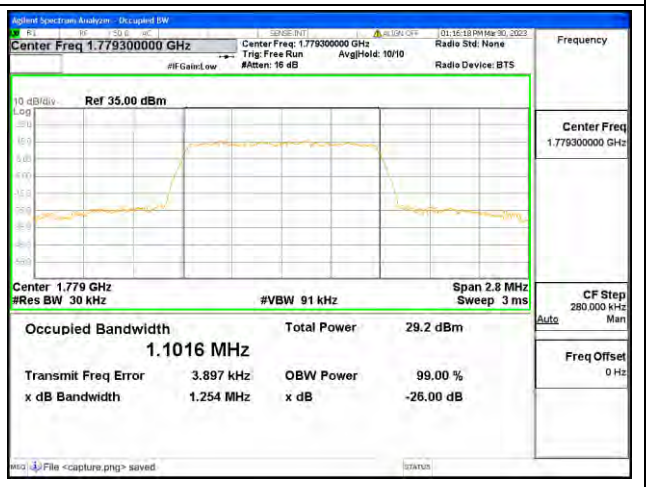
Band66 / 1.4MHz / QPSK/ Mid CH



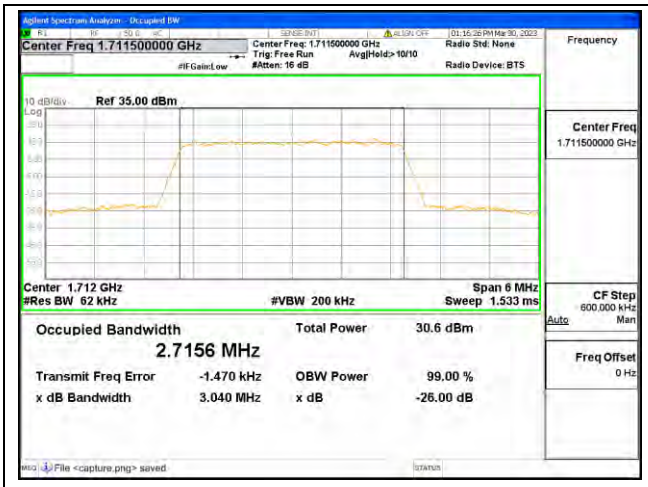
Band66 / 1.4MHz / 16QAM/ Mid CH



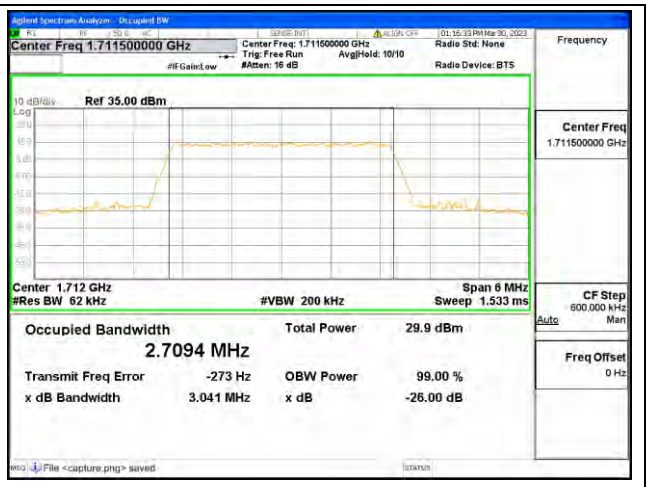
Band66 / 1.4MHz / QPSK/ High CH



Band66 / 1.4MHz / 16QAM/ High CH

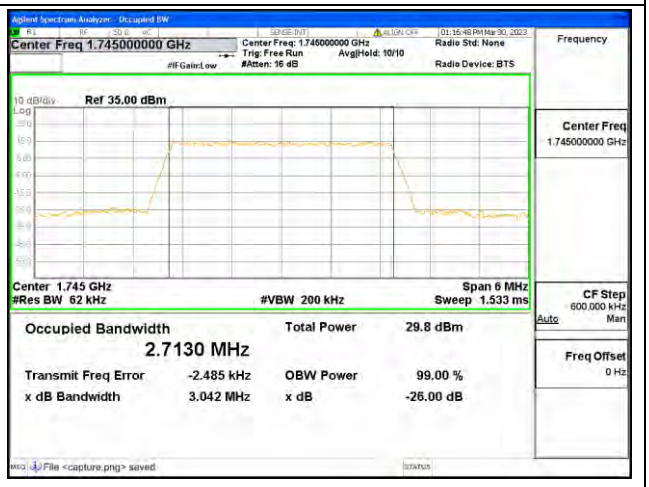


Band66 / 3MHz / QPSK/ Low CH

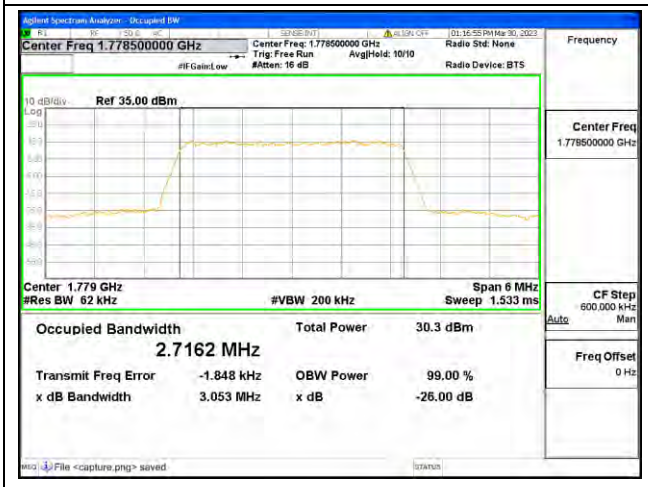


Band66 / 3MHz / 16QAM/ Low CH

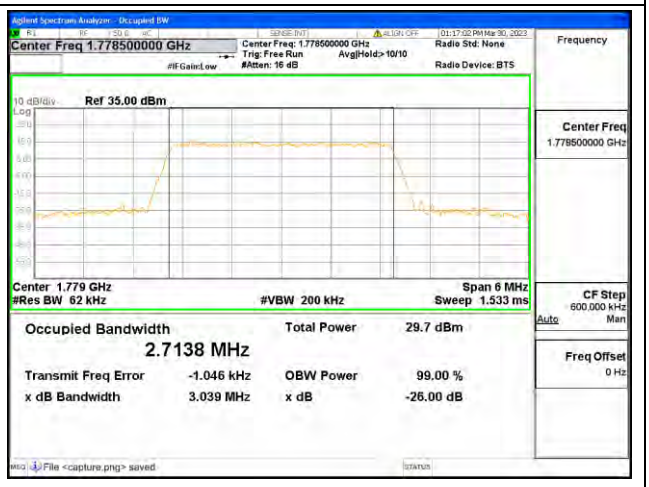
Band66 / 3MHz / QPSK/ Mid CH



Band66 / 3MHz / 16QAM/ Mid CH

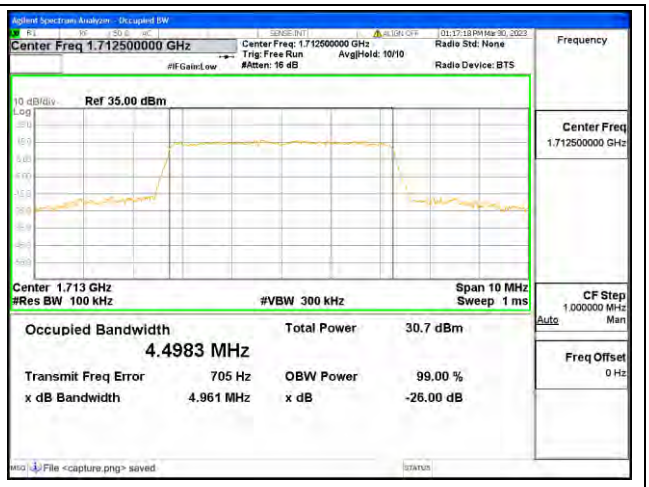


Band66 / 3MHz / QPSK/ High CH

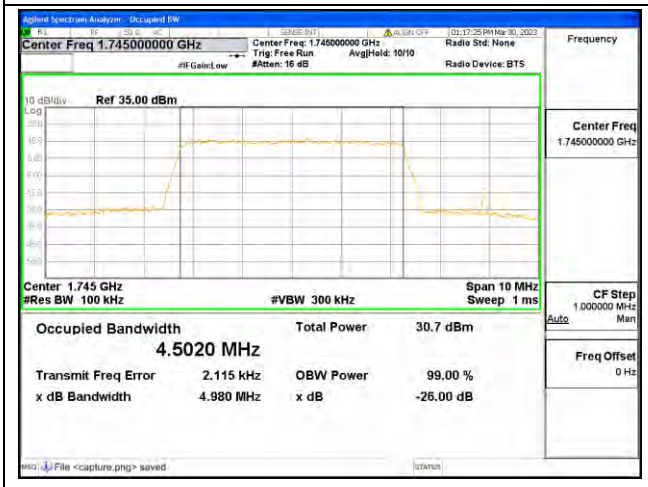


Band66 / 3MHz / 16QAM/ High CH

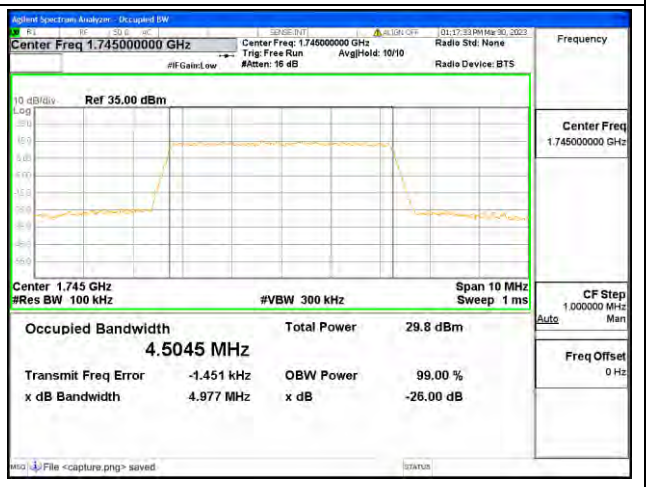
Band66 / 5MHz / QPSK/ Low CH



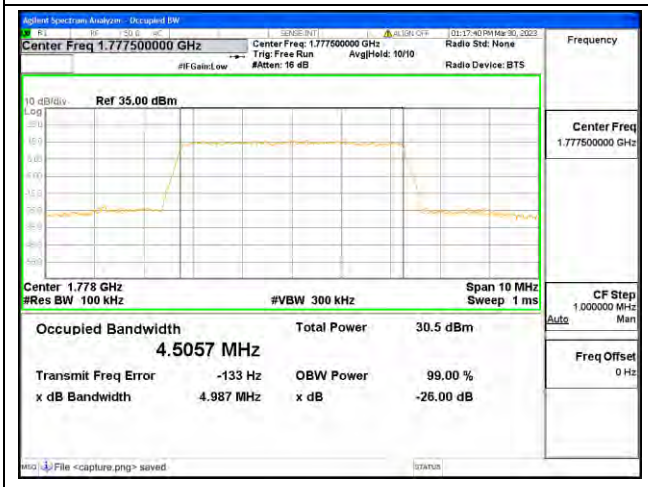
Band66 / 5MHz / 16QAM/ Low CH



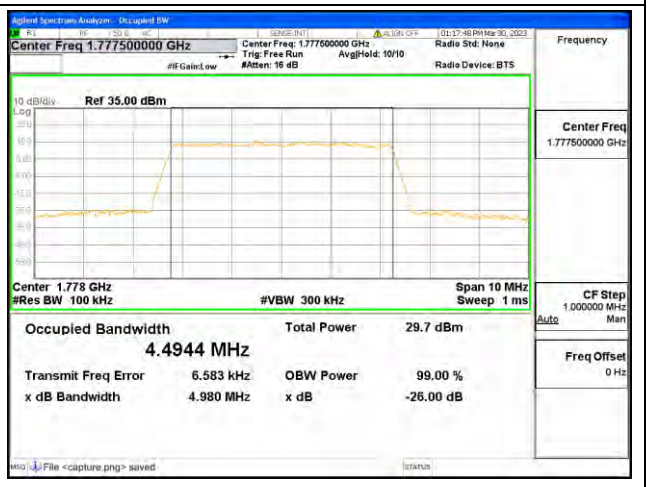
Band66 / 5MHz / QPSK/ Mid CH



Band66 / 5MHz / 16QAM/ Mid CH

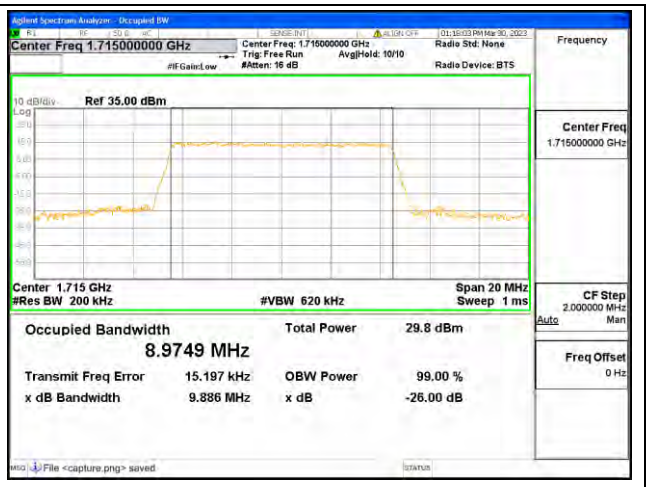


Band66 / 5MHz / QPSK/ High CH

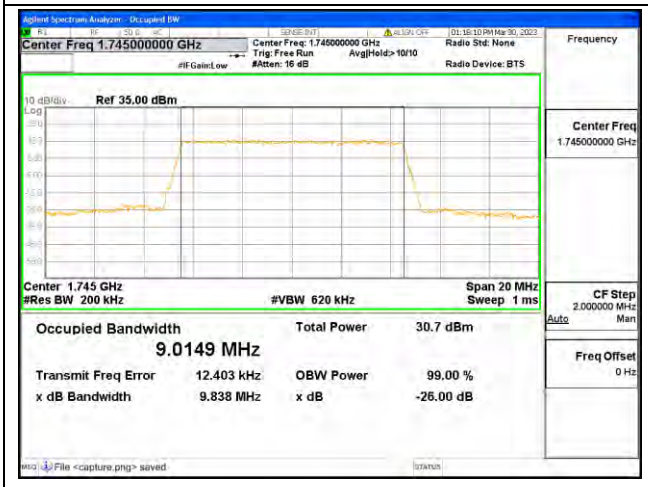


Band66 / 5MHz / 16QAM/ High CH

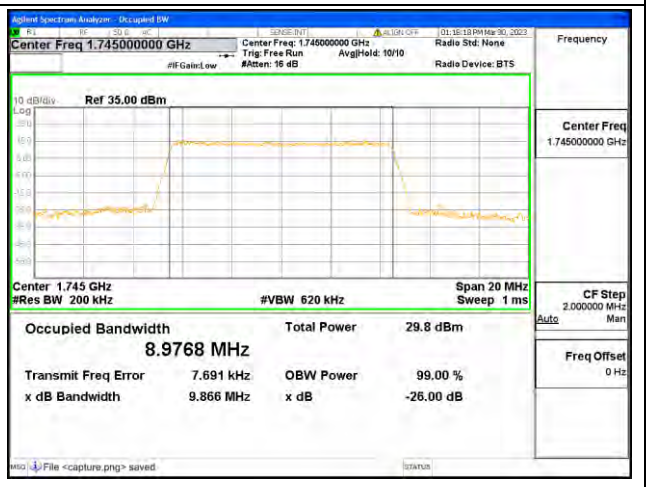
Band66 / 10MHz / QPSK/ Low CH



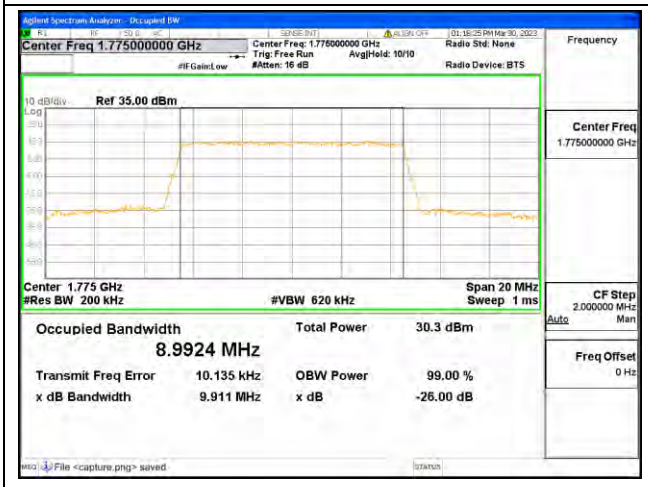
Band66 / 10MHz / 16QAM/ Low CH



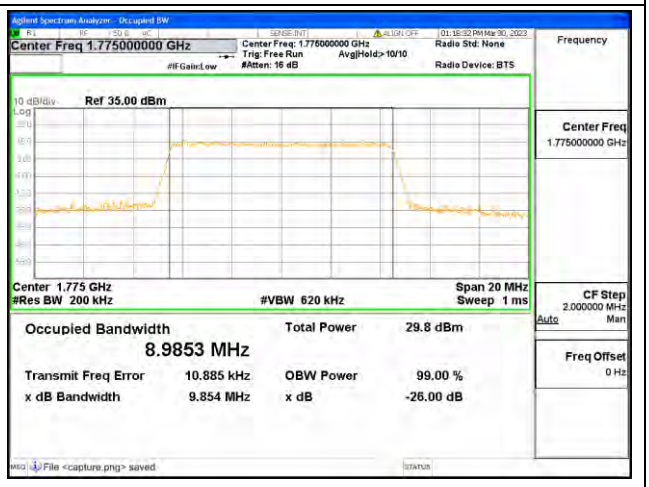
Band66 / 10MHz / QPSK/ Mid CH



Band66 / 10MHz / 16QAM/ Mid CH

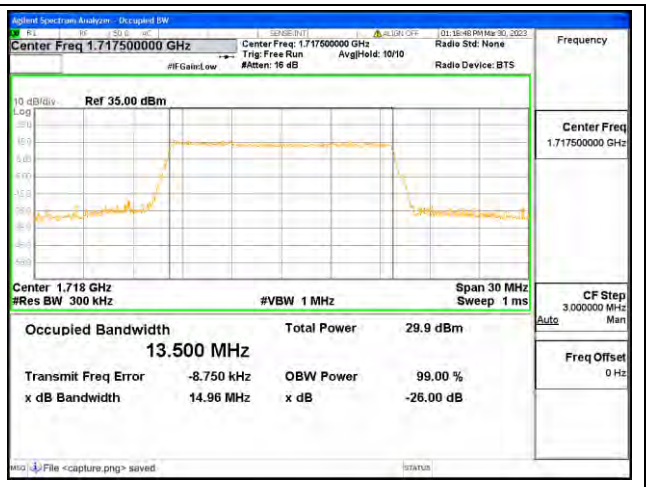


Band66 / 10MHz / QPSK/ High CH



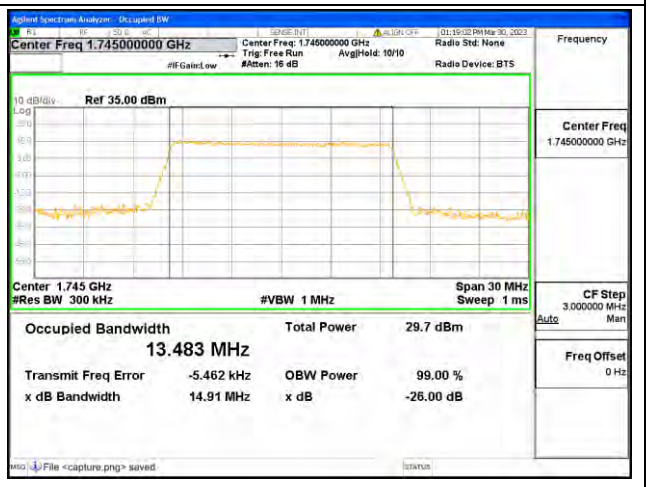
Band66 / 10MHz / 16QAM/ High CH

Band66 / 15MHz / QPSK/ Low CH

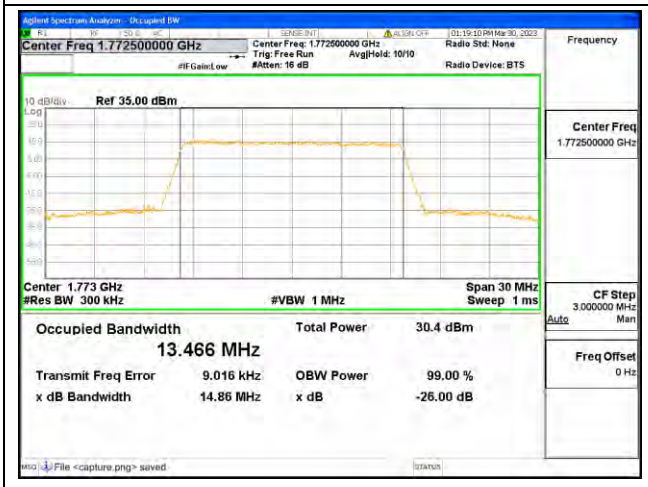


Band66 / 15MHz / 16QAM/ Low CH

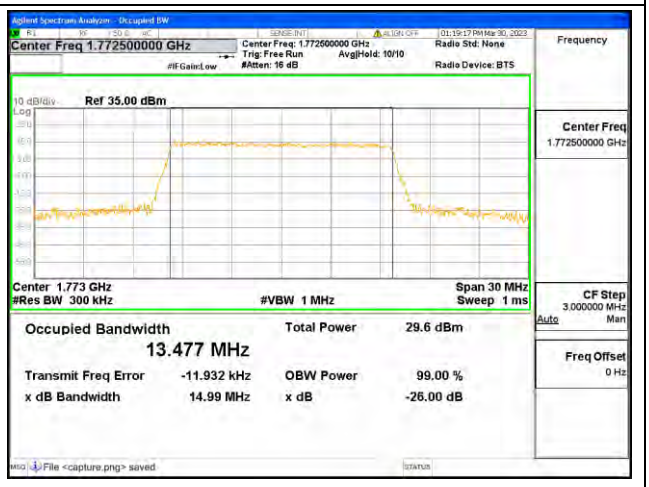
Band66 / 15MHz / QPSK/ Mid CH



Band66 / 15MHz / 16QAM/ Mid CH

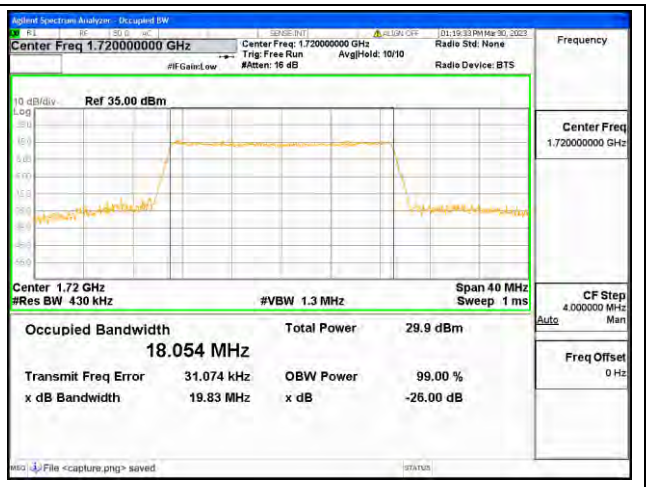


Band66 / 15MHz / QPSK/ High CH



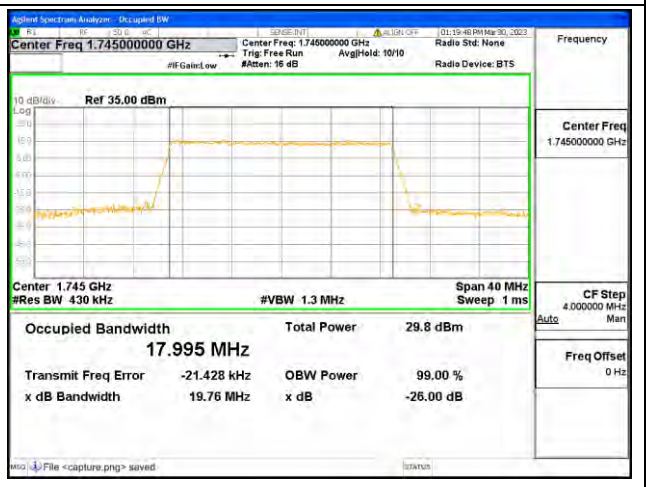
Band66 / 15MHz / 16QAM/ High CH

Band66 / 20MHz / QPSK/ Low CH



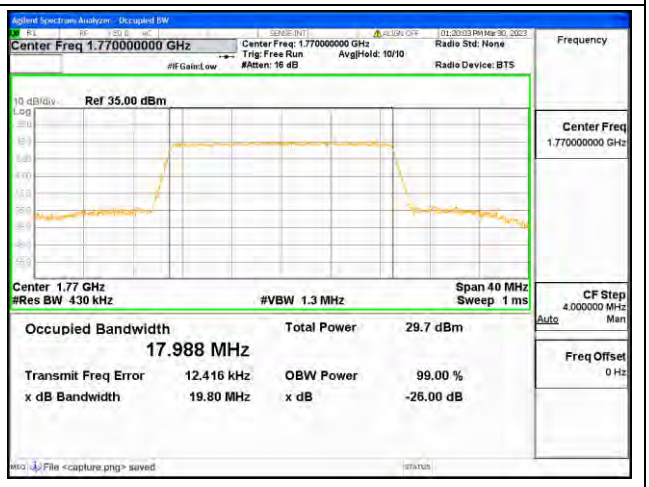
Band66 / 20MHz / 16QAM/ Low CH

Band66 / 20MHz / QPSK/ Mid CH



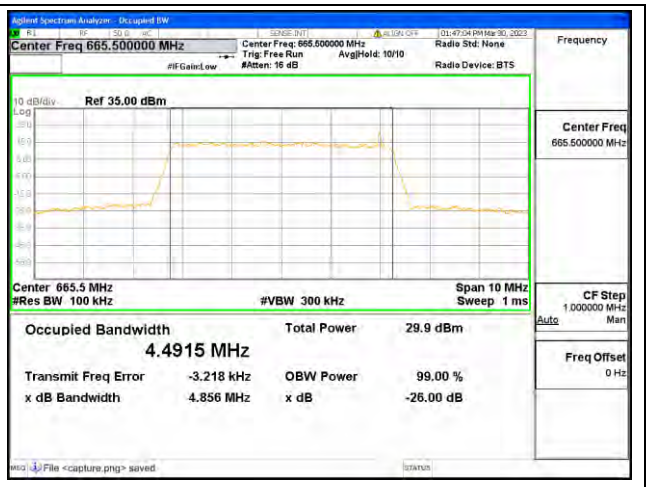
Band66 / 20MHz / 16QAM/ Mid CH

Band66 / 20MHz / QPSK/ High CH



Band66 / 20MHz / 16QAM/ High CH

Band71 / 5MHz / QPSK/ Low CH

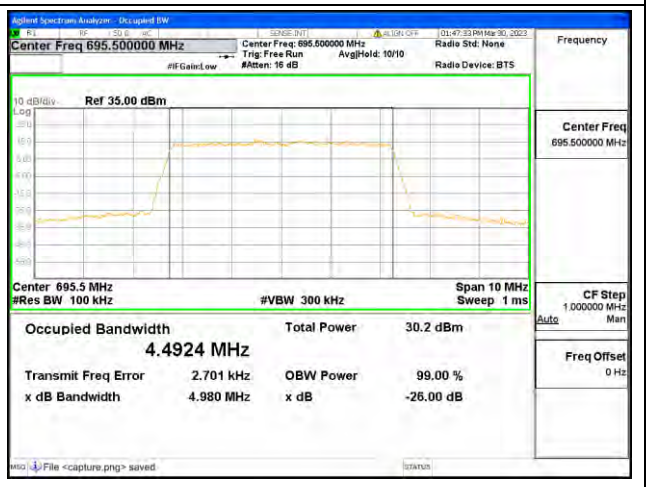


Band71 / 5MHz / 16QAM/ Low CH

Band71 / 5MHz / QPSK/ Mid CH

Band71 / 5MHz / 16QAM/ Mid CH

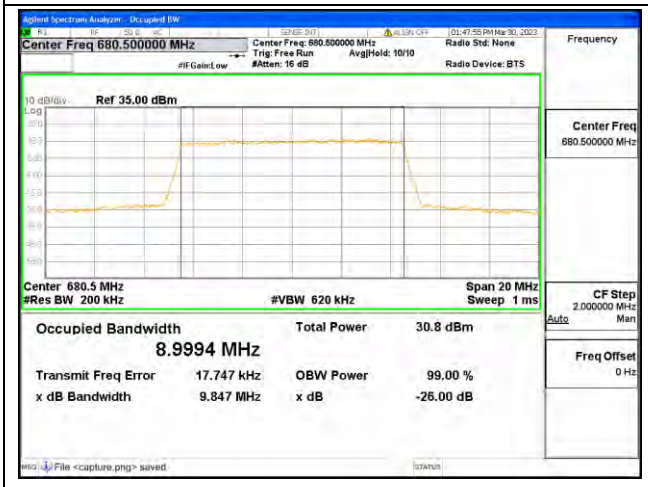
Band71 / 5MHz / QPSK/ High CH



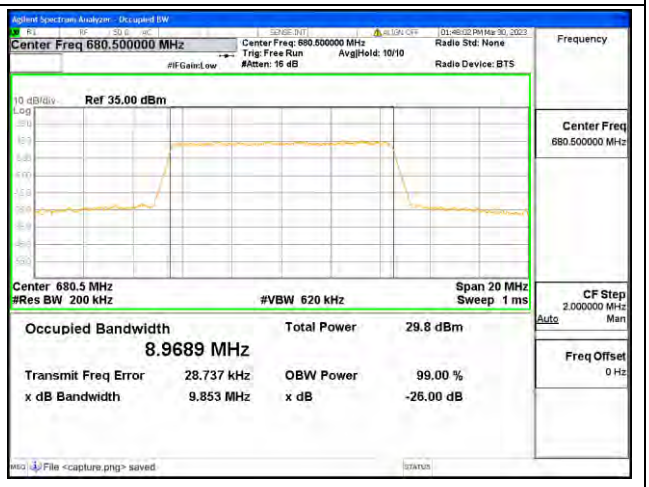
Band71 / 5MHz / 16QAM/ High CH

Band71 / 10MHz / QPSK/ Low CH

Band71 / 10MHz / 16QAM/ Low CH

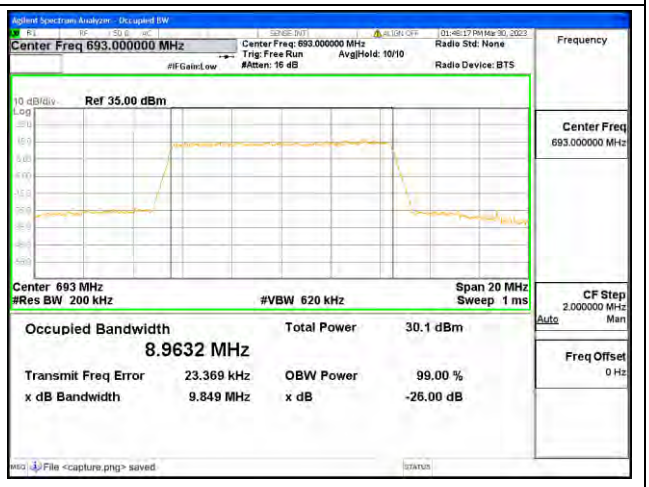


Band71 / 10MHz / QPSK/ Mid CH



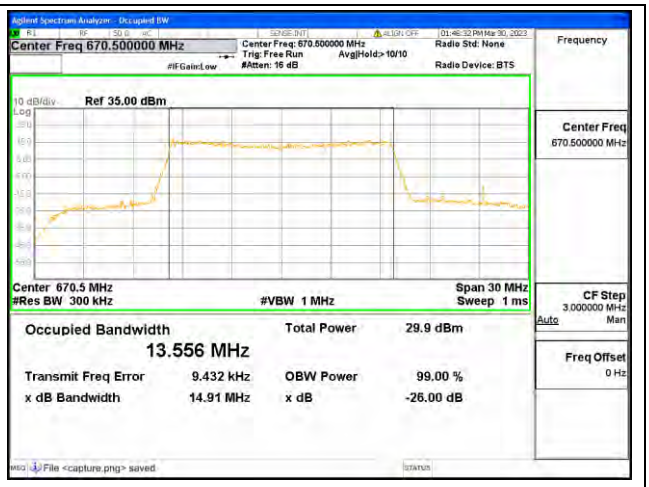
Band71 / 10MHz / 16QAM/ Mid CH

Band71 / 10MHz / QPSK/ High CH



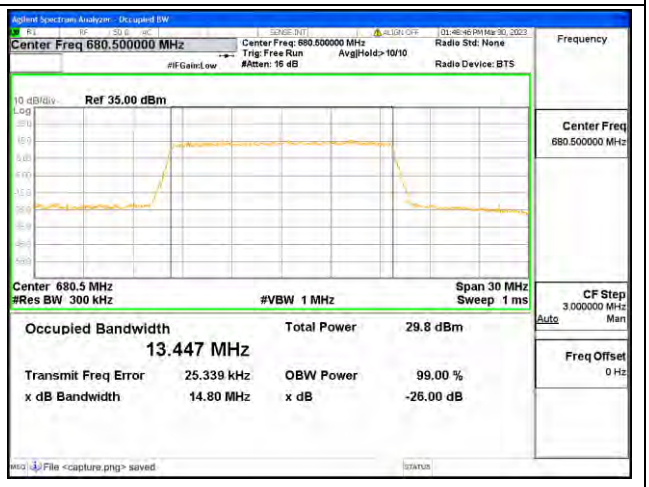
Band71 / 10MHz / 16QAM/ High CH

Band71 / 15MHz / QPSK/ Low CH



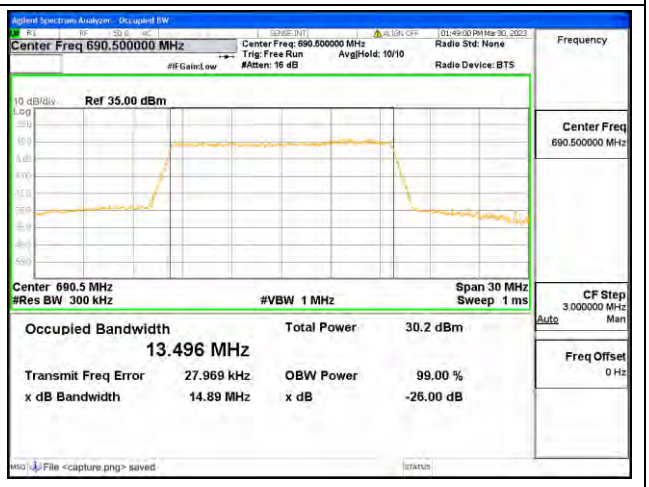
Band71 / 15MHz / 16QAM/ Low CH

Band71 / 15MHz / QPSK/ Mid CH



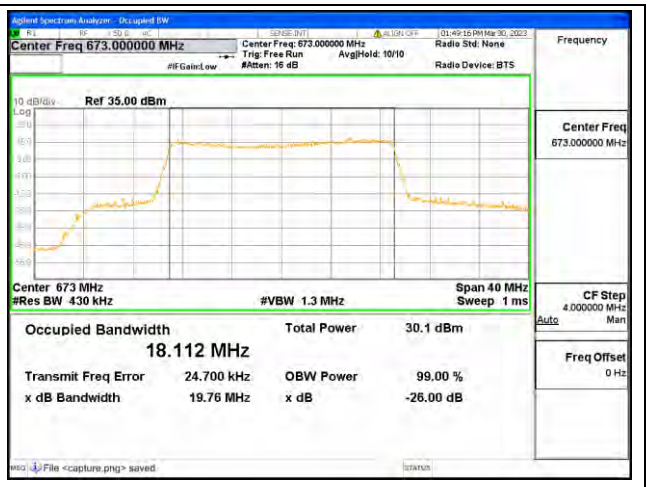
Band71 / 15MHz / 16QAM/ Mid CH

Band71 / 15MHz / QPSK/ High CH



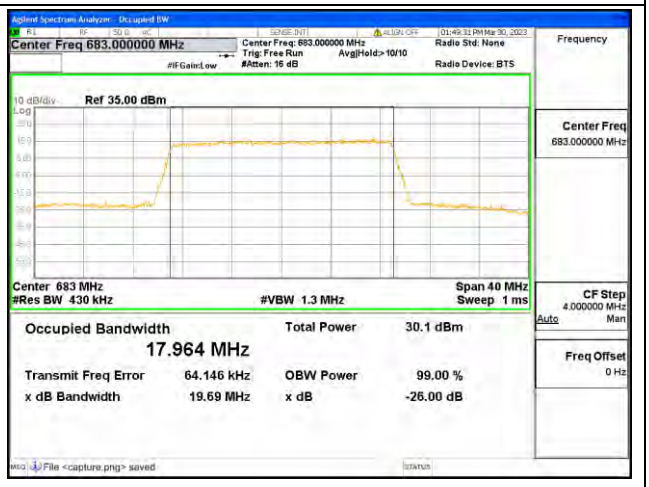
Band71 / 15MHz / 16QAM/ High CH

Band71 / 20MHz / QPSK/ Low CH

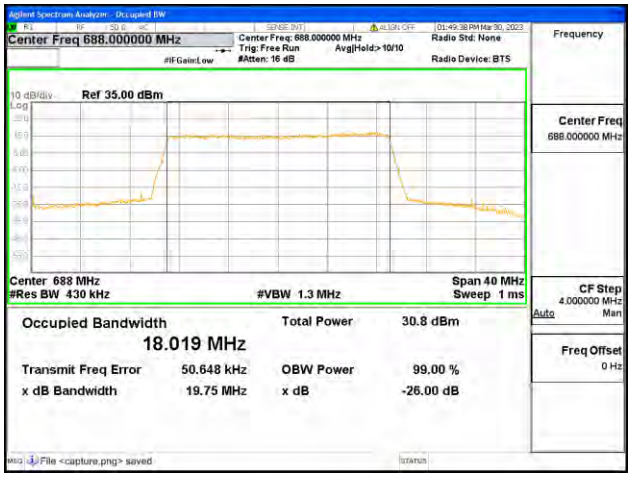


Band71 / 20MHz / 16QAM/ Low CH

Band71 / 20MHz / QPSK/ Mid CH



Band71 / 20MHz / 16QAM/ Mid CH



Band71 / 20MHz / QPSK/ High CH

Band71 / 20MHz / 16QAM/ High CH

2.3. Frequency Stability

2.3.1. Requirement

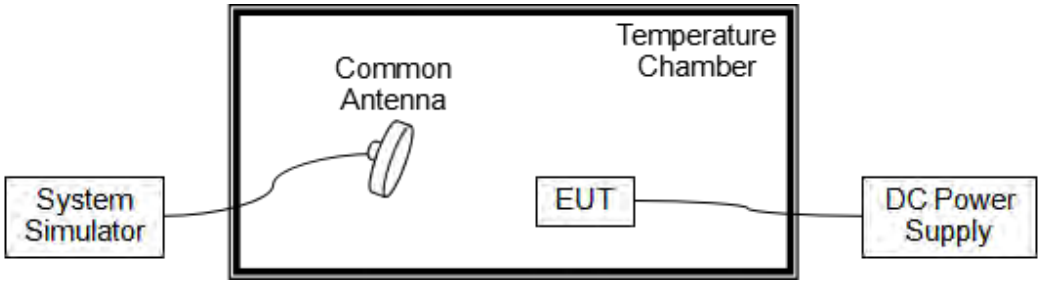
According to FCC section 2.1055, 24.235, 27.54, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

(a) The temperature is varied from -30°C to +50°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 -10°C to 55℃ , 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, 4.35V and 3.55V, 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**
Normal	3.80	+20(Ref)	-2	-0.001	PASS
Normal		-10	20	**0.011**	
Normal		0	-22	-0.012	
Normal		+10	18	0.010	
Normal		+20	-16	-0.009	
Normal		+30	-18	-0.010	
Normal		+40	17	0.009	
Normal		+50	5	0.003	
Normal		+55	17	0.009	
High	4.35	+20	15	0.008	
BATT.ENDPOINT	3.50	+20	19	0.010	

LTE Band 4, QPSK, Channel 20175, Frequency 1732.5MHz Limit =Within Authorized Band					
Voltage (%)	**Power (VDC)**	**Temp(°C)**	**Fre. Dev. (Hz)**	**Deviation (ppm)**	**Result**
Normal	3.80	+20(Ref)	-20	-0.012	PASS
Normal		-10	21	**0.012**	
Normal		0	1	0.001	
Normal		+10	20	0.012	
Normal		+20	-9	-0.005	
Normal		+30	18	0.010	
Normal		+40	-22	-0.013	
Normal		+50	-5	-0.003	
Normal		+55	17	0.010	
High	4.35	+20	20	0.012	
BATT.ENDPOINT	3.50	+20	17	0.010	

LTE Band 5, QPSK, Channel 20525, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	**Power (VDC)**	**Temp(°C)**	**Fre. Dev. (Hz)**	**Deviation (ppm)**	**Result**
Normal	3.80	+20(Ref)	13	0.016	PASS
Normal		-10	-2	-0.002	
Normal		0	19	**0.023**	
Normal		+10	14	0.017	
Normal		+20	6	0.007	
Normal		+30	15	0.018	
Normal		+40	15	0.018	
Normal		+50	19	**0.023**	
Normal		+55	7	0.008	
High	4.35	+20	13	0.016	
BATT.ENDPOINT	3.50	+20	17	0.020	

LTE Band 12, QPSK, Channel 23095, Frequency 707.5MHz Limit =Within Authorized Band					
Voltage (%)	**Power (VDC)**	**Temp(°C)**	**Fre. Dev. (Hz)**	**Deviation (ppm)**	**Result**
Normal	3.80	+20(Ref)	4	0.006	PASS
Normal		-10	16	0.023	
Normal		0	14	0.020	
Normal		+10	19	**0.027**	
Normal		+20	4	0.006	
Normal		+30	17	0.024	
Normal		+40	15	0.021	
Normal		+50	16	0.023	
Normal		+55	6	0.008	
High	4.35	+20	18	0.025	
BATT.ENDPOINT	3.50	+20	14	0.020	

LTE Band 17, QPSK, Channel 23790, Frequency 710MHz Limit =Within Authorized Band					
Voltage (%)	**Power (VDC)**	**Temp(°C)**	**Fre. Dev. (Hz)**	**Deviation (ppm)**	**Result**
Normal	3.80	+20(Ref)	11	0.015	PASS
Normal		-10	16	0.023	
Normal		0	20	**0.028**	
Normal		+10	19	0.027	
Normal		+20	5	0.007	
Normal		+30	13	0.018	
Normal		+40	18	0.025	
Normal		+50	13	0.018	
Normal		+55	13	0.018	
High	4.35	+20	-23	-0.032	
BATT.ENDPOINT	3.50	+20	-21	-0.030	

LTE Band 66, QPSK, Channel 132322, Frequency 1745.0MHz Limit =Within Authorized Band					
Voltage (%)	**Power (VDC)**	**Temp (°C)**	**Fre. Dev. (Hz)**	**Deviation (ppm)**	**Result**
Normal	3.80	+20(Ref)	13	0.007	PASS
Normal		-10	13	0.007	
Normal		0	20	**0.011**	
Normal		+10	-7	-0.004	
Normal		+20	17	0.010	
Normal		+30	17	0.010	
Normal		+40	-13	-0.007	
Normal		+50	-5	-0.003	
Normal		+55	15	0.009	
High	4.35	+20	15	0.009	
BATT.ENDPOINT	3.50	+20	18	0.010	

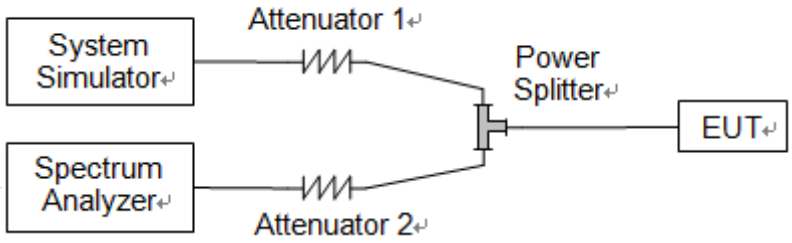
LTE Band 71, 64QAM, Channel 133322, Frequency 683.0MHz Limit =Within Authorized Band					
Voltage (%)	**Power (VDC)**	**Temp (°C)**	**Fre. Dev. (Hz)**	**Deviation (ppm)**	**Result**
Normal	3.80	+20(Ref)	-13	-0.019	PASS
Normal		-10	-13	-0.019	
Normal		0	-14	-0.020	
Normal		+10	-10	-0.015	
Normal		+20	18	0.026	
Normal		+30	15	0.022	
Normal		+40	19	0.028	
Normal		+50	20	**0.029**	
Normal		+55	-9	-0.013	
High	4.35	+20	13	0.019	
BATT.ENDPOINT	3.50	+20	-3	-0.004	

2.4. Peak to Average Radio

2.4.1. Requirement

According to FCC section 24.232(d) and 27.50(d), 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	5.31	<=13	PASS
	Low	16QAM	5.80	<=13	PASS
	Mid	QPSK	4.79	<=13	PASS
	Mid	16QAM	5.55	<=13	PASS
	High	QPSK	5.05	<=13	PASS
	High	16QAM	4.61	<=13	PASS
3	Low	QPSK	5.15	<=13	PASS
	Low	16QAM	5.88	<=13	PASS
	Mid	QPSK	4.73	<=13	PASS
	Mid	16QAM	5.31	<=13	PASS
	High	QPSK	4.21	<=13	PASS
	High	16QAM	4.92	<=13	PASS
5	Low	QPSK	5.36	<=13	PASS
	Low	16QAM	6.07	<=13	PASS
	Mid	QPSK	5.04	<=13	PASS
	Mid	16QAM	5.64	<=13	PASS
	High	QPSK	4.77	<=13	PASS
	High	16QAM	5.35	<=13	PASS
10	Low	QPSK	5.57	<=13	PASS
	Low	16QAM	6.17	<=13	PASS
	Mid	QPSK	5.10	<=13	PASS
	Mid	16QAM	5.97	<=13	PASS
	High	QPSK	5.08	<=13	PASS
	High	16QAM	5.85	<=13	PASS
15	Low	QPSK	5.40	<=13	PASS
	Low	16QAM	6.02	<=13	PASS
	Mid	QPSK	4.93	<=13	PASS
	Mid	16QAM	5.61	<=13	PASS
	High	QPSK	4.94	<=13	PASS
	High	16QAM	5.51	<=13	PASS
20	Low	QPSK	5.52	<=13	PASS
	Low	16QAM	6.21	<=13	PASS
	Mid	QPSK	5.10	<=13	PASS
	Mid	16QAM	5.75	<=13	PASS
	High	QPSK	5.06	<=13	PASS
	High	16QAM	5.80	<=13	PASS

LTE Band 4					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	4.85	<=13	PASS
	Low	16QAM	5.82	<=13	PASS
	Mid	QPSK	5.66	<=13	PASS
	Mid	16QAM	6.42	<=13	PASS
	High	QPSK	6.00	<=13	PASS
	High	16QAM	6.55	<=13	PASS
3	Low	QPSK	5.15	<=13	PASS
	Low	16QAM	5.91	<=13	PASS
	Mid	QPSK	5.65	<=13	PASS
	Mid	16QAM	6.44	<=13	PASS
	High	QPSK	5.75	<=13	PASS
	High	16QAM	6.56	<=13	PASS
5	Low	QPSK	5.32	<=13	PASS
	Low	16QAM	5.03	<=13	PASS
	Mid	QPSK	5.63	<=13	PASS
	Mid	16QAM	6.28	<=13	PASS
	High	QPSK	5.72	<=13	PASS
	High	16QAM	6.46	<=13	PASS
10	Low	QPSK	5.17	<=13	PASS
	Low	16QAM	6.15	<=13	PASS
	Mid	QPSK	5.76	<=13	PASS
	Mid	16QAM	6.57	<=13	PASS
	High	QPSK	5.78	<=13	PASS
	High	16QAM	6.34	<=13	PASS
15	Low	QPSK	5.51	<=13	PASS
	Low	16QAM	6.25	<=13	PASS
	Mid	QPSK	5.60	<=13	PASS
	Mid	16QAM	6.25	<=13	PASS
	High	QPSK	5.51	<=13	PASS
	High	16QAM	6.29	<=13	PASS
20	Low	QPSK	5.68	<=13	PASS
	Low	16QAM	6.41	<=13	PASS
	Mid	QPSK	5.60	<=13	PASS
	Mid	16QAM	6.42	<=13	PASS
	High	QPSK	5.65	<=13	PASS
	High	16QAM	6.30	<=13	PASS

LTE Band 66					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	5.08	<=13	PASS
	Low	16QAM	5.26	<=13	PASS
	Mid	QPSK	5.61	<=13	PASS
	Mid	16QAM	5.80	<=13	PASS
	High	QPSK	5.53	<=13	PASS
	High	16QAM	6.22	<=13	PASS
3	Low	QPSK	5.22	<=13	PASS
	Low	16QAM	5.48	<=13	PASS
	Mid	QPSK	5.32	<=13	PASS
	Mid	16QAM	6.34	<=13	PASS
	High	QPSK	5.48	<=13	PASS
	High	16QAM	6.20	<=13	PASS
5	Low	QPSK	5.42	<=13	PASS
	Low	16QAM	6.06	<=13	PASS
	Mid	QPSK	5.58	<=13	PASS
	Mid	16QAM	6.37	<=13	PASS
	High	QPSK	5.54	<=13	PASS
	High	16QAM	6.22	<=13	PASS
10	Low	QPSK	5.66	<=13	PASS
	Low	16QAM	6.33	<=13	PASS
	Mid	QPSK	5.66	<=13	PASS
	Mid	16QAM	6.37	<=13	PASS
	High	QPSK	5.60	<=13	PASS
	High	16QAM	6.41	<=13	PASS
15	Low	QPSK	5.65	<=13	PASS
	Low	16QAM	6.34	<=13	PASS
	Mid	QPSK	5.61	<=13	PASS
	Mid	16QAM	5.92	<=13	PASS
	High	QPSK	5.39	<=13	PASS
	High	16QAM	6.11	<=13	PASS
20	Low	QPSK	5.96	<=13	PASS
	Low	16QAM	6.42	<=13	PASS
	Mid	QPSK	5.74	<=13	PASS
	Mid	16QAM	6.36	<=13	PASS
	High	QPSK	5.44	<=13	PASS
	High	16QAM	6.29	<=13	PASS