



REPORT No.: SZ24080312W05

TEST REPORT

APPLICANT : BLU Products, Inc.

PRODUCT NAME : Smart Phone

MODEL NAME : G35

BRAND NAME : BLU

FCC ID : YHLBLU35W

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 : 2024-09-04

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DIRECTORY

1. Technical Information	3
1.1. Applicant and Manufacturer Information	3
1.2. Equipment Under Test (EUT) Description	3
1.3. Maximum E.R.P./E.I.R.P. and Emission Designator	5
1.4. Test Standards and Results	7
1.5. Environmental Conditions	8
2. 47 CFR Part 2, Part 22H, Part 24E, Part 27 H&L&N Requirements	9
2.1. Transmitter Conducted Output Power and E.R.P./E.I.R.P.	9
2.2. Occupied Bandwidth	74
2.3. Frequency Stability	114
2.4. Peak to Average Ratio	119
2.5. Conducted Spurious Emissions	139
2.6. Band Edge	156
2.7. Radiated Spurious Emissions	181
Annex A Test Uncertainty	205
Annex B Testing Laboratory Information	206

Change History		
Version	Date	Reason for change
1.0	2024-11-01	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 #300 Miami, FL 33166, USA
Manufacturer:	BLU Products, Inc.
Manufacturer Address:	8600 NW 36th Street, Suite #300 Miami, FL 33166, USA

1.2. Equipment Under Test (EUT) Description

Product Name:	Smart Phone	
Sample No.:	4#, 6#	
Hardware Version:	9583-MB-V0.1	
Software Version:	BLU_G1110_V14.0.G.03.00_GENERIC 29-09-2024 21:42	
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
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	-0.64dBi
	LTE Band 4	-0.88dBi
	LTE Band 5	-2.30dBi
	LTE Band 12	-0.28dBi
	LTE Band 17	-0.14dBi
	LTE Band 66	-0.88dBi
	LTE Band 71	-2.36dBi
Accessory Information:	Battery	
	Brand Name:	BLU
	Model No.:	C896351300L
	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-WS-1000
	Serial No.:	N/A
	Rated Output:	5.0V $\pm$ 1000mA
	Rated Input:	100-240V $\sim$ 50/60Hz, 0.15A
	Manufacturer:	Huizhou Wanzhisheng New Energy 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		0.209	0.175	17M9G7D	17M9W7D
15		0.207	0.168	13M5G7D	13M4W7D
10		0.207	0.169	8M97G7D	8M94W7D
5		0.206	0.169	4M47G7D	4M48W7D
3		0.206	0.169	2M72G7D	2M72W7D
1.4		0.205	0.168	1M10G7D	1M10W7D
LTE Band 4		Maximum E.R.P./E.I.R.P. (W)		Emission Designator (99%OBW)	
BW(MHz)		QPSK	16QAM	QPSK	16QAM
20		0.198	0.171	17M9G7D	17M9W7D
15		0.192	0.166	13M4G7D	13M4W7D
10		0.193	0.167	8M97G7D	8M94W7D
5		0.195	0.166	4M47G7D	4M48W7D
3		0.195	0.166	2M72G7D	2M72W7D
1.4		0.192	0.166	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		0.084	0.071	8M97G7D	8M94W7D
5		0.082	0.069	4M47G7D	4M47W7D
3		0.082	0.069	2M72G7D	2M73W7D
1.4		0.083	0.068	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		0.135	0.115	8M96G7D	8M94W7D
5		0.132	0.109	4M48G7D	4M47W7D
3		0.132	0.111	2M72G7D	2M72W7D
1.4		0.132	0.109	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		0.136	0.117	8M95G7D	8M92W7D
5		0.134	0.114	4M47G7D	4M47W7D



REPORT No.: SZ24080312W05

LTE Band 66	Maximum E.R.P./E.I.R.P. (W)		Emission Designator (99%OBW)	
BW(MHz)	QPSK	16QAM	QPSK	16QAM
20	0.199	0.172	17M9G7D	18M0W7D
15	0.196	0.164	13M4G7D	13M4W7D
10	0.195	0.168	8M97G7D	8M94W7D
5	0.193	0.164	4M48G7D	4M48W7D
3	0.196	0.164	2M72G7D	2M72W7D
1.4	0.195	0.167	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	0.084	0.073	17M9G7D	17M9W7D
15	0.082	0.072	13M5G7D	13M4W7D
10	0.082	0.071	8M98G7D	8M95W7D
5	0.082	0.071	4M47G7D	4M48W7D



1.4. Test Standards and Results

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

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

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

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046 22.913(a)(2) 24.232(c) 27.50(c)(10) 27.50(d)(4)	Transmitter Conducted Output Power and E.R.P./E.I.R.P.	Oct. 14, 2024	Tan Xiaowei Gan Jing	PASS	No deviation
2.1049	Occupied Bandwidth	Sep. 11, 2023	Gan Jing	PASS	No deviation
2.1055 22.355 24.235 27.54	Frequency Stability	Oct. 14, 2024	Gan Jing	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Oct. 10, 2023	Gan Jing	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(g) 27.53(h)	Conducted Spurious Emissions	Oct. 09, 2023	Gan Jing	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(g) 27.53(h)	Band Edge	Sep. 10, 2023	Gan Jing	PASS	No deviation
2.1053	Radiated	Sep. 18, 2023	Gao Jianrou	PASS	No deviation



22.917(a) 24.238(a) 27.53(g) 27.53(h)	Spurious Emissions				
Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016. Note 2: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table. Note 3: 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).

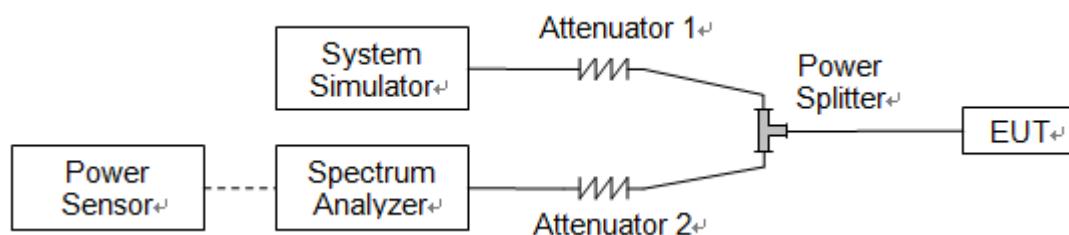
According to FCC section 24.232 (c) for LTE Band 2, Mobile and portable stations are limited to 2 watts E.I.R.P. and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

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

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

2.1.2. Test Description



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



2.1.3. Test Procedure

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

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

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

2.1.4. Result

Conducted Output Power:

LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	23.75	23.84	23.72
20	QPSK	1	49	23.66	23.74	23.64
20	QPSK	1	99	23.57	23.67	23.58
20	QPSK	50	0	22.62	22.89	22.58
20	QPSK	50	24	22.53	22.75	22.47
20	QPSK	50	50	22.47	22.66	22.39
20	QPSK	100	0	22.38	22.59	22.29
20	16QAM	1	0	23.04	23.07	22.95
20	16QAM	1	49	22.92	22.87	22.89
20	16QAM	1	99	22.82	22.89	22.82
20	16QAM	50	0	22.00	22.03	21.91
20	16QAM	50	24	21.86	21.92	21.93
20	16QAM	50	50	21.80	21.89	21.81
20	16QAM	100	0	21.89	21.84	21.86



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	23.69	23.80	23.67
15	QPSK	1	37	23.48	23.57	23.41
15	QPSK	1	74	23.48	23.44	23.48
15	QPSK	36	0	22.43	22.68	22.43
15	QPSK	36	20	22.37	22.53	22.36
15	QPSK	36	39	22.32	22.55	22.25
15	QPSK	75	0	22.18	22.40	22.18
15	16QAM	1	0	22.90	22.88	22.80
15	16QAM	1	37	22.74	22.75	22.68
15	16QAM	1	74	22.63	22.71	22.71
15	16QAM	36	0	21.90	21.91	21.73
15	16QAM	36	20	21.72	21.75	21.82
15	16QAM	36	39	21.59	21.81	21.70
15	16QAM	75	0	21.73	21.75	21.76



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	23.67	23.81	23.65
10	QPSK	1	25	23.54	23.64	23.45
10	QPSK	1	49	23.45	23.51	23.46
10	QPSK	25	0	22.43	22.70	22.50
10	QPSK	25	12	22.37	22.61	22.27
10	QPSK	25	25	22.38	22.53	22.21
10	QPSK	50	0	22.29	22.45	22.17
10	16QAM	1	0	22.90	22.92	22.74
10	16QAM	1	25	22.72	22.73	22.66
10	16QAM	1	49	22.61	22.76	22.72
10	16QAM	25	0	21.91	21.86	21.69
10	16QAM	25	12	21.74	21.83	21.73
10	16QAM	25	25	21.64	21.81	21.65
10	16QAM	50	0	21.70	21.67	21.64



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	23.68	23.77	23.65
5	QPSK	1	12	23.57	23.62	23.42
5	QPSK	1	24	23.49	23.53	23.42
5	QPSK	12	0	22.50	22.66	22.36
5	QPSK	12	7	22.35	22.56	22.38
5	QPSK	12	13	22.37	22.56	22.17
5	QPSK	25	0	22.23	22.47	22.11
5	16QAM	1	0	22.88	22.92	22.81
5	16QAM	1	12	22.72	22.77	22.70
5	16QAM	1	24	22.64	22.76	22.61
5	16QAM	12	0	21.86	21.94	21.77
5	16QAM	12	7	21.73	21.69	21.77
5	16QAM	12	13	21.70	21.71	21.66
5	16QAM	25	0	21.69	21.62	21.74



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	23.71	23.77	23.68
3	QPSK	1	8	23.58	23.58	23.42
3	QPSK	1	14	23.37	23.46	23.43
3	QPSK	8	0	22.49	22.68	22.50
3	QPSK	8	4	22.40	22.55	22.28
3	QPSK	8	7	22.35	22.47	22.20
3	QPSK	15	0	22.21	22.39	22.19
3	16QAM	1	0	22.92	22.92	22.86
3	16QAM	1	8	22.74	22.75	22.71
3	16QAM	1	14	22.68	22.81	22.65
3	16QAM	8	0	21.91	21.91	21.71
3	16QAM	8	4	21.67	21.71	21.71
3	16QAM	8	7	21.72	21.79	21.66
3	16QAM	15	0	21.68	21.67	21.67



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	23.67	23.76	23.65
1.4	QPSK	1	3	23.49	23.63	23.43
1.4	QPSK	1	5	23.45	23.52	23.37
1.4	QPSK	3	0	22.39	22.74	22.50
1.4	QPSK	3	1	22.42	22.59	22.24
1.4	QPSK	3	3	22.31	22.52	22.24
1.4	QPSK	6	0	22.26	22.36	22.20
1.4	16QAM	1	0	22.87	22.90	22.83
1.4	16QAM	1	3	22.71	22.69	22.77
1.4	16QAM	1	5	22.73	22.76	22.65
1.4	16QAM	3	0	21.88	21.85	21.71
1.4	16QAM	3	1	21.68	21.76	21.76
1.4	16QAM	3	3	21.62	21.68	21.58
1.4	16QAM	6	0	21.80	21.65	21.72



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	23.77	23.84	23.77
20	QPSK	1	49	23.66	23.77	23.71
20	QPSK	1	99	23.60	23.69	23.61
20	QPSK	50	0	22.55	22.72	22.70
20	QPSK	50	24	22.46	22.64	22.55
20	QPSK	50	50	22.39	22.56	22.48
20	QPSK	100	0	22.33	22.50	22.38
20	16QAM	1	0	23.06	23.20	23.17
20	16QAM	1	49	22.91	22.92	22.95
20	16QAM	1	99	22.92	22.85	22.96
20	16QAM	50	0	22.07	21.94	21.89
20	16QAM	50	24	21.94	21.99	21.98
20	16QAM	50	50	21.96	21.94	21.90
20	16QAM	100	0	21.96	21.87	21.97



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	23.65	23.71	23.68
15	QPSK	1	37	23.53	23.59	23.61
15	QPSK	1	74	23.41	23.60	23.47
15	QPSK	36	0	22.41	22.63	22.61
15	QPSK	36	20	22.34	22.53	22.33
15	QPSK	36	39	22.27	22.43	22.37
15	QPSK	75	0	22.23	22.32	22.22
15	16QAM	1	0	22.88	23.02	23.08
15	16QAM	1	37	22.80	22.76	22.76
15	16QAM	1	74	22.77	22.77	22.80
15	16QAM	36	0	21.94	21.76	21.69
15	16QAM	36	20	21.77	21.89	21.76
15	16QAM	36	39	21.80	21.72	21.68
15	16QAM	75	0	21.92	21.77	21.92



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	23.63	23.74	23.69
10	QPSK	1	25	23.49	23.64	23.55
10	QPSK	1	49	23.40	23.53	23.48
10	QPSK	25	0	22.37	22.62	22.49
10	QPSK	25	12	22.38	22.52	22.41
10	QPSK	25	25	22.27	22.37	22.31
10	QPSK	50	0	22.23	22.32	22.21
10	16QAM	1	0	22.83	23.12	22.97
10	16QAM	1	25	22.77	22.79	22.86
10	16QAM	1	49	22.82	22.70	22.78
10	16QAM	25	0	21.89	21.82	21.75
10	16QAM	25	12	21.76	21.88	21.89
10	16QAM	25	25	21.86	21.80	21.68
10	16QAM	50	0	21.87	21.66	21.80



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	23.67	23.77	23.68
5	QPSK	1	12	23.45	23.56	23.48
5	QPSK	1	24	23.42	23.56	23.48
5	QPSK	12	0	22.39	22.57	22.59
5	QPSK	12	7	22.30	22.45	22.43
5	QPSK	12	13	22.16	22.35	22.35
5	QPSK	25	0	22.20	22.37	22.16
5	16QAM	1	0	22.98	23.07	23.01
5	16QAM	1	12	22.69	22.75	22.74
5	16QAM	1	24	22.80	22.69	22.82
5	16QAM	12	0	21.91	21.78	21.78
5	16QAM	12	7	21.82	21.82	21.78
5	16QAM	12	13	21.84	21.80	21.72
5	16QAM	25	0	21.77	21.67	21.75



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	23.71	23.77	23.66
3	QPSK	1	8	23.51	23.60	23.62
3	QPSK	1	14	23.40	23.47	23.49
3	QPSK	8	0	22.34	22.63	22.53
3	QPSK	8	4	22.32	22.43	22.33
3	QPSK	8	7	22.28	22.45	22.38
3	QPSK	15	0	22.22	22.41	22.24
3	16QAM	1	0	22.85	23.07	23.03
3	16QAM	1	8	22.74	22.74	22.80
3	16QAM	1	14	22.70	22.63	22.84
3	16QAM	8	0	21.86	21.82	21.78
3	16QAM	8	4	21.78	21.89	21.83
3	16QAM	8	7	21.80	21.84	21.67
3	16QAM	15	0	21.80	21.68	21.76



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	23.64	23.72	23.64
1.4	QPSK	1	3	23.47	23.63	23.51
1.4	QPSK	1	5	23.48	23.48	23.40
1.4	QPSK	3	0	22.35	22.56	22.51
1.4	QPSK	3	1	22.36	22.48	22.36
1.4	QPSK	3	3	22.20	22.38	22.34
1.4	QPSK	6	0	22.23	22.40	22.23
1.4	16QAM	1	0	22.97	23.09	23.08
1.4	16QAM	1	3	22.73	22.80	22.86
1.4	16QAM	1	5	22.78	22.75	22.81
1.4	16QAM	3	0	21.90	21.73	21.72
1.4	16QAM	3	1	21.77	21.84	21.84
1.4	16QAM	3	3	21.86	21.72	21.76
1.4	16QAM	6	0	21.76	21.72	21.78



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	23.63	23.70	23.56
10	QPSK	1	25	23.49	23.58	23.49
10	QPSK	1	49	23.39	23.49	23.41
10	QPSK	25	0	22.37	22.62	22.40
10	QPSK	25	12	22.23	22.48	22.32
10	QPSK	25	25	22.16	22.41	22.24
10	QPSK	50	0	22.10	22.32	22.16
10	16QAM	1	0	22.95	22.92	22.85
10	16QAM	1	25	22.88	22.76	22.78
10	16QAM	1	49	22.74	22.79	22.73
10	16QAM	25	0	21.98	21.73	21.80
10	16QAM	25	12	21.84	21.91	21.86
10	16QAM	25	25	21.79	21.91	21.89
10	16QAM	50	0	21.81	21.80	21.88



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	23.51	23.58	23.51
5	QPSK	1	12	23.33	23.48	23.41
5	QPSK	1	24	23.18	23.37	23.28
5	QPSK	12	0	22.16	22.43	22.22
5	QPSK	12	7	22.13	22.32	22.18
5	QPSK	12	13	22.01	22.29	22.09
5	QPSK	25	0	21.93	22.17	22.04
5	16QAM	1	0	22.80	22.83	22.72
5	16QAM	1	12	22.79	22.67	22.68
5	16QAM	1	24	22.63	22.62	22.65
5	16QAM	12	0	21.75	21.56	21.67
5	16QAM	12	7	21.63	21.76	21.71
5	16QAM	12	13	21.59	21.79	21.76
5	16QAM	25	0	21.69	21.69	21.68



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	23.53	23.61	23.48
3	QPSK	1	8	23.30	23.50	23.33
3	QPSK	1	14	23.18	23.38	23.21
3	QPSK	8	0	22.21	22.42	22.29
3	QPSK	8	4	22.05	22.32	22.13
3	QPSK	8	7	21.97	22.28	22.09
3	QPSK	15	0	22.01	22.21	22.07
3	16QAM	1	0	22.81	22.72	22.71
3	16QAM	1	8	22.69	22.59	22.63
3	16QAM	1	14	22.59	22.65	22.64
3	16QAM	8	0	21.77	21.56	21.71
3	16QAM	8	4	21.66	21.77	21.75
3	16QAM	8	7	21.68	21.75	21.70
3	16QAM	15	0	21.61	21.62	21.73



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	23.53	23.63	23.42
1.4	QPSK	1	3	23.39	23.49	23.27
1.4	QPSK	1	5	23.21	23.31	23.19
1.4	QPSK	3	0	22.23	22.40	22.26
1.4	QPSK	3	1	22.09	22.35	22.21
1.4	QPSK	3	3	21.96	22.29	22.04
1.4	QPSK	6	0	21.88	22.10	22.05
1.4	16QAM	1	0	22.76	22.72	22.73
1.4	16QAM	1	3	22.73	22.55	22.60
1.4	16QAM	1	5	22.54	22.59	22.58
1.4	16QAM	3	0	21.77	21.63	21.66
1.4	16QAM	3	1	21.71	21.75	21.71
1.4	16QAM	3	3	21.66	21.71	21.67
1.4	16QAM	6	0	21.70	21.61	21.80



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23060	23095	23130
Frequency (MHz)				704	707.5	711
10	QPSK	1	0	23.64	23.72	23.64
10	QPSK	1	25	23.53	23.58	23.56
10	QPSK	1	49	23.48	23.48	23.48
10	QPSK	25	0	22.43	22.47	22.70
10	QPSK	25	12	22.37	22.40	22.59
10	QPSK	25	25	22.31	22.34	22.52
10	QPSK	50	0	22.24	22.26	22.44
10	16QAM	1	0	23.00	22.89	23.02
10	16QAM	1	25	22.92	22.92	22.88
10	16QAM	1	49	22.86	22.84	22.83
10	16QAM	25	0	21.78	21.88	21.95
10	16QAM	25	12	21.68	21.71	21.68
10	16QAM	25	25	21.68	21.71	21.64
10	16QAM	50	0	21.58	21.60	21.65



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	23.57	23.63	23.56
5	QPSK	1	12	23.38	23.50	23.36
5	QPSK	1	24	23.30	23.36	23.34
5	QPSK	12	0	22.24	22.32	22.53
5	QPSK	12	7	22.20	22.28	22.40
5	QPSK	12	13	22.21	22.11	22.44
5	QPSK	25	0	22.09	22.13	22.21
5	16QAM	1	0	22.79	22.66	22.81
5	16QAM	1	12	22.79	22.71	22.78
5	16QAM	1	24	22.66	22.73	22.68
5	16QAM	12	0	21.58	21.67	21.83
5	16QAM	12	7	21.50	21.51	21.49
5	16QAM	12	13	21.50	21.53	21.54
5	16QAM	25	0	21.37	21.51	21.43



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5
3	QPSK	1	0	23.54	23.62	23.49
3	QPSK	1	8	23.37	23.47	23.48
3	QPSK	1	14	23.28	23.33	23.37
3	QPSK	8	0	22.28	22.34	22.57
3	QPSK	8	4	22.27	22.28	22.42
3	QPSK	8	7	22.16	22.21	22.43
3	QPSK	15	0	22.14	22.13	22.33
3	16QAM	1	0	22.87	22.79	22.81
3	16QAM	1	8	22.74	22.70	22.75
3	16QAM	1	14	22.65	22.71	22.66
3	16QAM	8	0	21.55	21.66	21.78
3	16QAM	8	4	21.52	21.57	21.46
3	16QAM	8	7	21.51	21.58	21.55
3	16QAM	15	0	21.47	21.52	21.55



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3
1.4	QPSK	1	0	23.55	23.62	23.55
1.4	QPSK	1	3	23.31	23.39	23.42
1.4	QPSK	1	5	23.33	23.30	23.33
1.4	QPSK	3	0	22.34	22.37	22.52
1.4	QPSK	3	1	22.19	22.21	22.49
1.4	QPSK	3	3	22.22	22.15	22.34
1.4	QPSK	6	0	22.02	22.12	22.27
1.4	16QAM	1	0	22.78	22.71	22.82
1.4	16QAM	1	3	22.70	22.78	22.73
1.4	16QAM	1	5	22.71	22.62	22.64
1.4	16QAM	3	0	21.61	21.68	21.77
1.4	16QAM	3	1	21.50	21.52	21.48
1.4	16QAM	3	3	21.49	21.50	21.53
1.4	16QAM	6	0	21.41	21.37	21.45



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23780	23790	23800
Frequency (MHz)				709	710	711
10	QPSK	1	0	23.57	23.64	23.62
10	QPSK	1	25	23.45	23.59	23.54
10	QPSK	1	49	23.40	23.51	23.47
10	QPSK	25	0	22.61	22.71	22.68
10	QPSK	25	12	22.47	22.60	22.61
10	QPSK	25	25	22.39	22.53	22.54
10	QPSK	50	0	22.30	22.46	22.47
10	16QAM	1	0	22.95	22.78	22.96
10	16QAM	1	25	22.79	22.82	22.78
10	16QAM	1	49	22.74	22.73	22.70
10	16QAM	25	0	21.72	21.90	21.67
10	16QAM	25	12	21.60	21.63	21.63
10	16QAM	25	25	21.66	21.60	21.53
10	16QAM	50	0	21.63	21.57	21.59



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23755	23790	23825
Frequency (MHz)				706.5	710	713.5
5	QPSK	1	0	23.50	23.57	23.54
5	QPSK	1	12	23.28	23.37	23.34
5	QPSK	1	24	23.19	23.30	23.35
5	QPSK	12	0	22.48	22.58	22.56
5	QPSK	12	7	22.24	22.52	22.47
5	QPSK	12	13	22.20	22.31	22.41
5	QPSK	25	0	22.19	22.24	22.31
5	16QAM	1	0	22.74	22.58	22.87
5	16QAM	1	12	22.64	22.62	22.56
5	16QAM	1	24	22.52	22.53	22.53
5	16QAM	12	0	21.59	21.78	21.56
5	16QAM	12	7	21.42	21.48	21.49
5	16QAM	12	13	21.47	21.41	21.37
5	16QAM	25	0	21.52	21.40	21.38



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132072	132322	132572
Frequency (MHz)				1720	1745	1770
20	QPSK	1	0	23.86	23.87	23.78
20	QPSK	1	49	23.79	23.80	23.67
20	QPSK	1	99	23.72	23.71	23.58
20	QPSK	50	0	22.73	22.67	22.48
20	QPSK	50	24	22.67	22.59	22.39
20	QPSK	50	50	22.59	22.51	22.32
20	QPSK	100	0	22.51	22.42	22.26
20	16QAM	1	0	23.23	23.12	23.23
20	16QAM	1	49	23.10	23.13	23.12
20	16QAM	1	99	23.02	23.07	23.10
20	16QAM	50	0	21.98	22.20	22.03
20	16QAM	50	24	21.87	21.90	21.91
20	16QAM	50	50	21.78	21.86	21.90
20	16QAM	100	0	21.90	21.79	21.84



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5
15	QPSK	1	0	23.74	23.81	23.64
15	QPSK	1	37	23.71	23.70	23.50
15	QPSK	1	74	23.54	23.53	23.46
15	QPSK	36	0	22.57	22.58	22.36
15	QPSK	36	20	22.48	22.43	22.24
15	QPSK	36	39	22.47	22.40	22.17
15	QPSK	75	0	22.34	22.30	22.10
15	16QAM	1	0	23.03	22.97	23.04
15	16QAM	1	37	22.96	22.95	22.98
15	16QAM	1	74	22.91	22.92	22.91
15	16QAM	36	0	21.84	22.10	21.85
15	16QAM	36	20	21.79	21.68	21.74
15	16QAM	36	39	21.68	21.70	21.79
15	16QAM	75	0	21.71	21.71	21.73



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132022	132322	132622
Frequency (MHz)				1715	1745	1775
10	QPSK	1	0	23.79	23.73	23.63
10	QPSK	1	25	23.60	23.62	23.46
10	QPSK	1	49	23.54	23.62	23.48
10	QPSK	25	0	22.61	22.57	22.39
10	QPSK	25	12	22.48	22.39	22.20
10	QPSK	25	25	22.49	22.33	22.18
10	QPSK	50	0	22.42	22.33	22.07
10	16QAM	1	0	23.14	22.92	23.05
10	16QAM	1	25	22.94	23.02	22.95
10	16QAM	1	49	22.88	22.96	22.88
10	16QAM	25	0	21.81	21.99	21.93
10	16QAM	25	12	21.74	21.67	21.77
10	16QAM	25	25	21.65	21.72	21.69
10	16QAM	50	0	21.71	21.63	21.73



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5
5	QPSK	1	0	23.72	23.74	23.72
5	QPSK	1	12	23.66	23.71	23.48
5	QPSK	1	24	23.51	23.57	23.49
5	QPSK	12	0	22.55	22.52	22.39
5	QPSK	12	7	22.54	22.38	22.27
5	QPSK	12	13	22.48	22.41	22.21
5	QPSK	25	0	22.38	22.24	22.13
5	16QAM	1	0	23.03	22.90	23.00
5	16QAM	1	12	22.93	23.01	22.95
5	16QAM	1	24	22.80	22.88	23.00
5	16QAM	12	0	21.87	22.02	21.88
5	16QAM	12	7	21.73	21.74	21.69
5	16QAM	12	13	21.63	21.71	21.74
5	16QAM	25	0	21.73	21.65	21.66



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5
3	QPSK	1	0	23.76	23.80	23.65
3	QPSK	1	8	23.66	23.71	23.49
3	QPSK	1	14	23.62	23.58	23.48
3	QPSK	8	0	22.62	22.45	22.40
3	QPSK	8	4	22.54	22.38	22.16
3	QPSK	8	7	22.43	22.32	22.19
3	QPSK	15	0	22.42	22.21	22.07
3	16QAM	1	0	23.04	22.97	23.02
3	16QAM	1	8	22.90	22.96	22.91
3	16QAM	1	14	22.80	22.97	22.88
3	16QAM	8	0	21.87	22.09	21.85
3	16QAM	8	4	21.69	21.79	21.74
3	16QAM	8	7	21.60	21.76	21.76
3	16QAM	15	0	21.79	21.60	21.68



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3
1.4	QPSK	1	0	23.79	23.76	23.67
1.4	QPSK	1	3	23.64	23.69	23.49
1.4	QPSK	1	5	23.57	23.59	23.41
1.4	QPSK	3	0	22.55	22.51	22.28
1.4	QPSK	3	1	22.49	22.45	22.20
1.4	QPSK	3	3	22.37	22.42	22.22
1.4	QPSK	6	0	22.36	22.22	22.15
1.4	16QAM	1	0	23.11	22.95	23.08
1.4	16QAM	1	3	23.01	22.95	22.98
1.4	16QAM	1	5	22.89	22.92	22.93
1.4	16QAM	3	0	21.82	22.07	21.87
1.4	16QAM	3	1	21.78	21.77	21.76
1.4	16QAM	3	3	21.59	21.77	21.81
1.4	16QAM	6	0	21.79	21.68	21.69



LTE Band 71						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				133222	133322	133372
Frequency (MHz)				673	683	688
20	QPSK	1	0	23.75	23.77	23.71
20	QPSK	1	49	23.66	23.67	23.56
20	QPSK	1	99	23.57	23.62	23.47
20	QPSK	50	0	22.55	22.79	22.66
20	QPSK	50	24	22.50	22.73	22.60
20	QPSK	50	50	22.44	22.64	22.52
20	QPSK	100	0	22.38	22.55	22.44
20	16QAM	1	0	23.02	23.17	23.02
20	16QAM	1	49	22.84	22.88	22.94
20	16QAM	1	99	22.78	22.89	22.88
20	16QAM	50	0	21.92	22.05	22.04
20	16QAM	50	24	21.85	21.81	21.80
20	16QAM	50	50	21.75	21.77	21.85
20	16QAM	100	0	21.83	21.84	21.73



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	23.62	23.67	23.60
15	QPSK	1	37	23.50	23.48	23.44
15	QPSK	1	74	23.39	23.48	23.26
15	QPSK	36	0	22.43	22.60	22.46
15	QPSK	36	20	22.31	22.64	22.41
15	QPSK	36	39	22.25	22.49	22.29
15	QPSK	75	0	22.26	22.42	22.33
15	16QAM	1	0	22.82	23.07	22.84
15	16QAM	1	37	22.63	22.73	22.82
15	16QAM	1	74	22.67	22.76	22.73
15	16QAM	36	0	21.75	21.88	21.94
15	16QAM	36	20	21.76	21.66	21.61
15	16QAM	36	39	21.55	21.61	21.76
15	16QAM	75	0	21.61	21.67	21.65



LTE Band 71						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				133172	133272	133422
Frequency (MHz)				668	678	693
10	QPSK	1	0	23.67	23.67	23.59
10	QPSK	1	25	23.48	23.46	23.33
10	QPSK	1	49	23.39	23.45	23.33
10	QPSK	25	0	22.46	22.58	22.49
10	QPSK	25	12	22.39	22.62	22.50
10	QPSK	25	25	22.32	22.41	22.34
10	QPSK	50	0	22.24	22.43	22.25
10	16QAM	1	0	22.79	23.00	22.85
10	16QAM	1	25	22.68	22.73	22.81
10	16QAM	1	49	22.58	22.67	22.65
10	16QAM	25	0	21.70	21.92	21.95
10	16QAM	25	12	21.71	21.65	21.65
10	16QAM	25	25	21.54	21.54	21.65
10	16QAM	50	0	21.69	21.62	21.61



LTE Band 71						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				133147	133247	133447
Frequency (MHz)				665.5	675.5	695.5
5	QPSK	1	0	23.66	23.63	23.57
5	QPSK	1	12	23.44	23.48	23.36
5	QPSK	1	24	23.45	23.48	23.27
5	QPSK	12	0	22.44	22.62	22.55
5	QPSK	12	7	22.39	22.60	22.47
5	QPSK	12	13	22.24	22.50	22.38
5	QPSK	25	0	22.19	22.33	22.23
5	16QAM	1	0	22.85	23.03	22.93
5	16QAM	1	12	22.74	22.73	22.84
5	16QAM	1	24	22.69	22.68	22.68
5	16QAM	12	0	21.83	21.85	21.91
5	16QAM	12	7	21.76	21.60	21.59
5	16QAM	12	13	21.65	21.68	21.68
5	16QAM	25	0	21.64	21.72	21.59

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

LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18700		18900		19100	
Frequency (MHz)				1860		1880		1900	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	23.11	0.205	23.20	0.209	23.08	0.203
20	QPSK	1	49	23.02	0.200	23.10	0.204	23.00	0.200
20	QPSK	1	99	22.93	0.196	23.03	0.201	22.94	0.197
20	QPSK	50	0	21.98	0.158	22.25	0.168	21.94	0.156
20	QPSK	50	24	21.89	0.155	22.11	0.163	21.83	0.152
20	QPSK	50	50	21.83	0.152	22.02	0.159	21.75	0.150
20	QPSK	100	0	21.74	0.149	21.95	0.157	21.65	0.146
20	16QAM	1	0	22.40	0.174	22.43	0.175	22.31	0.170
20	16QAM	1	49	22.28	0.169	22.23	0.167	22.25	0.168
20	16QAM	1	99	22.18	0.165	22.25	0.168	22.18	0.165
20	16QAM	50	0	21.36	0.137	21.39	0.138	21.27	0.134
20	16QAM	50	24	21.22	0.132	21.28	0.134	21.29	0.135
20	16QAM	50	50	21.16	0.131	21.25	0.133	21.17	0.131
20	16QAM	100	0	21.25	0.133	21.20	0.132	21.22	0.132



REPORT No.: SZ24080312W05

LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18675		18900		19125	
Frequency (MHz)				1857.5		1880		1902.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	23.05	0.202	23.16	0.207	23.03	0.201
15	QPSK	1	37	22.84	0.192	22.93	0.196	22.77	0.189
15	QPSK	1	74	22.84	0.192	22.80	0.191	22.84	0.192
15	QPSK	36	0	21.79	0.151	22.04	0.160	21.79	0.151
15	QPSK	36	20	21.73	0.149	21.89	0.155	21.72	0.149
15	QPSK	36	39	21.68	0.147	21.91	0.155	21.61	0.145
15	QPSK	75	0	21.54	0.143	21.76	0.150	21.54	0.143
15	16QAM	1	0	22.26	0.168	22.24	0.167	22.16	0.164
15	16QAM	1	37	22.10	0.162	22.11	0.163	22.04	0.160
15	16QAM	1	74	21.99	0.158	22.07	0.161	22.07	0.161
15	16QAM	36	0	21.26	0.134	21.27	0.134	21.09	0.129
15	16QAM	36	20	21.08	0.128	21.11	0.129	21.18	0.131
15	16QAM	36	39	20.95	0.124	21.17	0.131	21.06	0.128
15	16QAM	75	0	21.09	0.129	21.11	0.129	21.12	0.129



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18650		18900		19150	
Frequency (MHz)				1855		1880		1905	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	23.03	0.201	23.17	0.207	23.01	0.200
10	QPSK	1	25	22.90	0.195	23.00	0.200	22.81	0.191
10	QPSK	1	49	22.81	0.191	22.87	0.194	22.82	0.191
10	QPSK	25	0	21.79	0.151	22.06	0.161	21.86	0.153
10	QPSK	25	12	21.73	0.149	21.97	0.157	21.63	0.146
10	QPSK	25	25	21.74	0.149	21.89	0.155	21.57	0.144
10	QPSK	50	0	21.65	0.146	21.81	0.152	21.53	0.142
10	16QAM	1	0	22.26	0.168	22.28	0.169	22.10	0.162
10	16QAM	1	25	22.08	0.161	22.09	0.162	22.02	0.159
10	16QAM	1	49	21.97	0.157	22.12	0.163	22.08	0.161
10	16QAM	25	0	21.27	0.134	21.22	0.132	21.05	0.127
10	16QAM	25	12	21.10	0.129	21.19	0.132	21.09	0.129
10	16QAM	25	25	21.00	0.126	21.17	0.131	21.01	0.126
10	16QAM	50	0	21.06	0.128	21.03	0.127	21.00	0.126



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18625		18900		19175	
Frequency (MHz)				1852.5		1880		1907.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	23.04	0.201	23.13	0.206	23.01	0.200
5	QPSK	1	12	22.93	0.196	22.98	0.199	22.78	0.190
5	QPSK	1	24	22.85	0.193	22.89	0.195	22.78	0.190
5	QPSK	12	0	21.86	0.153	22.02	0.159	21.72	0.149
5	QPSK	12	7	21.71	0.148	21.92	0.156	21.74	0.149
5	QPSK	12	13	21.73	0.149	21.92	0.156	21.53	0.142
5	QPSK	25	0	21.59	0.144	21.83	0.152	21.47	0.140
5	16QAM	1	0	22.24	0.167	22.28	0.169	22.17	0.165
5	16QAM	1	12	22.08	0.161	22.13	0.163	22.06	0.161
5	16QAM	1	24	22.00	0.158	22.12	0.163	21.97	0.157
5	16QAM	12	0	21.22	0.132	21.30	0.135	21.13	0.130
5	16QAM	12	7	21.09	0.129	21.05	0.127	21.13	0.130
5	16QAM	12	13	21.06	0.128	21.07	0.128	21.02	0.126
5	16QAM	25	0	21.05	0.127	20.98	0.125	21.10	0.129



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18615		18900		19185	
Frequency (MHz)				1851.5		1880		1908.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	23.07	0.203	23.13	0.206	23.04	0.201
3	QPSK	1	8	22.94	0.197	22.94	0.197	22.78	0.190
3	QPSK	1	14	22.73	0.187	22.82	0.191	22.79	0.190
3	QPSK	8	0	21.85	0.153	22.04	0.160	21.86	0.153
3	QPSK	8	4	21.76	0.150	21.91	0.155	21.64	0.146
3	QPSK	8	7	21.71	0.148	21.83	0.152	21.56	0.143
3	QPSK	15	0	21.57	0.144	21.75	0.150	21.55	0.143
3	16QAM	1	0	22.28	0.169	22.28	0.169	22.22	0.167
3	16QAM	1	8	22.10	0.162	22.11	0.163	22.07	0.161
3	16QAM	1	14	22.04	0.160	22.17	0.165	22.01	0.159
3	16QAM	8	0	21.27	0.134	21.27	0.134	21.07	0.128
3	16QAM	8	4	21.03	0.127	21.07	0.128	21.07	0.128
3	16QAM	8	7	21.08	0.128	21.15	0.130	21.02	0.126
3	16QAM	15	0	21.04	0.127	21.03	0.127	21.03	0.127



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18607		18900		19193	
Frequency (MHz)				1850.7		1880		1909.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	23.03	0.201	23.12	0.205	23.01	0.200
1.4	QPSK	1	3	22.85	0.193	22.99	0.199	22.79	0.190
1.4	QPSK	1	5	22.81	0.191	22.88	0.194	22.73	0.187
1.4	QPSK	3	0	21.75	0.150	22.10	0.162	21.86	0.153
1.4	QPSK	3	1	21.78	0.151	21.95	0.157	21.60	0.145
1.4	QPSK	3	3	21.67	0.147	21.88	0.154	21.60	0.145
1.4	QPSK	6	0	21.62	0.145	21.72	0.149	21.56	0.143
1.4	16QAM	1	0	22.23	0.167	22.26	0.168	22.19	0.166
1.4	16QAM	1	3	22.07	0.161	22.05	0.160	22.13	0.163
1.4	16QAM	1	5	22.09	0.162	22.12	0.163	22.01	0.159
1.4	16QAM	3	0	21.24	0.133	21.21	0.132	21.07	0.128
1.4	16QAM	3	1	21.04	0.127	21.12	0.129	21.12	0.129
1.4	16QAM	3	3	20.98	0.125	21.04	0.127	20.94	0.124
1.4	16QAM	6	0	21.16	0.131	21.01	0.126	21.08	0.128



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	22.89	0.195	22.96	0.198	22.89	0.195
20	QPSK	1	49	22.78	0.190	22.89	0.195	22.83	0.192
20	QPSK	1	99	22.72	0.187	22.81	0.191	22.73	0.187
20	QPSK	50	0	21.67	0.147	21.84	0.153	21.82	0.152
20	QPSK	50	24	21.58	0.144	21.76	0.150	21.67	0.147
20	QPSK	50	50	21.51	0.142	21.68	0.147	21.60	0.145
20	QPSK	100	0	21.45	0.140	21.62	0.145	21.50	0.141
20	16QAM	1	0	22.18	0.165	22.32	0.171	22.29	0.169
20	16QAM	1	49	22.03	0.160	22.04	0.160	22.07	0.161
20	16QAM	1	99	22.04	0.160	21.97	0.157	22.08	0.161
20	16QAM	50	0	21.19	0.132	21.06	0.128	21.01	0.126
20	16QAM	50	24	21.06	0.128	21.11	0.129	21.10	0.129
20	16QAM	50	50	21.08	0.128	21.06	0.128	21.02	0.126
20	16QAM	100	0	21.08	0.128	20.99	0.126	21.09	0.129



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	22.77	0.189	22.83	0.192	22.80	0.191
15	QPSK	1	37	22.65	0.184	22.71	0.187	22.73	0.187
15	QPSK	1	74	22.53	0.179	22.72	0.187	22.59	0.182
15	QPSK	36	0	21.53	0.142	21.75	0.150	21.73	0.149
15	QPSK	36	20	21.46	0.140	21.65	0.146	21.45	0.140
15	QPSK	36	39	21.39	0.138	21.55	0.143	21.49	0.141
15	QPSK	75	0	21.35	0.136	21.44	0.139	21.34	0.136
15	16QAM	1	0	22.00	0.158	22.14	0.164	22.20	0.166
15	16QAM	1	37	21.92	0.156	21.88	0.154	21.88	0.154
15	16QAM	1	74	21.89	0.155	21.89	0.155	21.92	0.156
15	16QAM	36	0	21.06	0.128	20.88	0.122	20.81	0.121
15	16QAM	36	20	20.89	0.123	21.01	0.126	20.88	0.122
15	16QAM	36	39	20.92	0.124	20.84	0.121	20.80	0.120
15	16QAM	75	0	21.04	0.127	20.89	0.123	21.04	0.127



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	22.75	0.188	22.86	0.193	22.81	0.191
10	QPSK	1	25	22.61	0.182	22.76	0.189	22.67	0.185
10	QPSK	1	49	22.52	0.179	22.65	0.184	22.60	0.182
10	QPSK	25	0	21.49	0.141	21.74	0.149	21.61	0.145
10	QPSK	25	12	21.50	0.141	21.64	0.146	21.53	0.142
10	QPSK	25	25	21.39	0.138	21.49	0.141	21.43	0.139
10	QPSK	50	0	21.35	0.136	21.44	0.139	21.33	0.136
10	16QAM	1	0	21.95	0.157	22.24	0.167	22.09	0.162
10	16QAM	1	25	21.89	0.155	21.91	0.155	21.98	0.158
10	16QAM	1	49	21.94	0.156	21.82	0.152	21.90	0.155
10	16QAM	25	0	21.01	0.126	20.94	0.124	20.87	0.122
10	16QAM	25	12	20.88	0.122	21.00	0.126	21.01	0.126
10	16QAM	25	25	20.98	0.125	20.92	0.124	20.80	0.120
10	16QAM	50	0	20.99	0.126	20.78	0.120	20.92	0.124



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	22.79	0.190	22.89	0.195	22.80	0.191
5	QPSK	1	12	22.57	0.181	22.68	0.185	22.60	0.182
5	QPSK	1	24	22.54	0.179	22.68	0.185	22.60	0.182
5	QPSK	12	0	21.51	0.142	21.69	0.148	21.71	0.148
5	QPSK	12	7	21.42	0.139	21.57	0.144	21.55	0.143
5	QPSK	12	13	21.28	0.134	21.47	0.140	21.47	0.140
5	QPSK	25	0	21.32	0.136	21.49	0.141	21.28	0.134
5	16QAM	1	0	22.10	0.162	22.19	0.166	22.13	0.163
5	16QAM	1	12	21.81	0.152	21.87	0.154	21.86	0.153
5	16QAM	1	24	21.92	0.156	21.81	0.152	21.94	0.156
5	16QAM	12	0	21.03	0.127	20.90	0.123	20.90	0.123
5	16QAM	12	7	20.94	0.124	20.94	0.124	20.90	0.123
5	16QAM	12	13	20.96	0.125	20.92	0.124	20.84	0.121
5	16QAM	25	0	20.89	0.123	20.79	0.120	20.87	0.122



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	22.83	0.192	22.89	0.195	22.78	0.190
3	QPSK	1	8	22.63	0.183	22.72	0.187	22.74	0.188
3	QPSK	1	14	22.52	0.179	22.59	0.182	22.61	0.182
3	QPSK	8	0	21.46	0.140	21.75	0.150	21.65	0.146
3	QPSK	8	4	21.44	0.139	21.55	0.143	21.45	0.140
3	QPSK	8	7	21.40	0.138	21.57	0.144	21.50	0.141
3	QPSK	15	0	21.34	0.136	21.53	0.142	21.36	0.137
3	16QAM	1	0	21.97	0.157	22.19	0.166	22.15	0.164
3	16QAM	1	8	21.86	0.153	21.86	0.153	21.92	0.156
3	16QAM	1	14	21.82	0.152	21.75	0.150	21.96	0.157
3	16QAM	8	0	20.98	0.125	20.94	0.124	20.90	0.123
3	16QAM	8	4	20.90	0.123	21.01	0.126	20.95	0.124
3	16QAM	8	7	20.92	0.124	20.96	0.125	20.79	0.120
3	16QAM	15	0	20.92	0.124	20.80	0.120	20.88	0.122



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	22.76	0.189	22.84	0.192	22.76	0.189
1.4	QPSK	1	3	22.59	0.182	22.75	0.188	22.63	0.183
1.4	QPSK	1	5	22.60	0.182	22.60	0.182	22.52	0.179
1.4	QPSK	3	0	21.47	0.140	21.68	0.147	21.63	0.146
1.4	QPSK	3	1	21.48	0.141	21.60	0.145	21.48	0.141
1.4	QPSK	3	3	21.32	0.136	21.50	0.141	21.46	0.140
1.4	QPSK	6	0	21.35	0.136	21.52	0.142	21.35	0.136
1.4	16QAM	1	0	22.09	0.162	22.21	0.166	22.20	0.166
1.4	16QAM	1	3	21.85	0.153	21.92	0.156	21.98	0.158
1.4	16QAM	1	5	21.90	0.155	21.87	0.154	21.93	0.156
1.4	16QAM	3	0	21.02	0.126	20.85	0.122	20.84	0.121
1.4	16QAM	3	1	20.89	0.123	20.96	0.125	20.96	0.125
1.4	16QAM	3	3	20.98	0.125	20.84	0.121	20.88	0.122
1.4	16QAM	6	0	20.88	0.122	20.84	0.121	20.90	0.123



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	19.18	0.083	19.25	0.084	19.11	0.081
10	QPSK	1	25	19.04	0.080	19.13	0.082	19.04	0.080
10	QPSK	1	49	18.94	0.078	19.04	0.080	18.96	0.079
10	QPSK	25	0	17.92	0.062	18.17	0.066	17.95	0.062
10	QPSK	25	12	17.78	0.060	18.03	0.064	17.87	0.061
10	QPSK	25	25	17.71	0.059	17.96	0.063	17.79	0.060
10	QPSK	50	0	17.65	0.058	17.87	0.061	17.71	0.059
10	16QAM	1	0	18.50	0.071	18.47	0.070	18.40	0.069
10	16QAM	1	25	18.43	0.070	18.31	0.068	18.33	0.068
10	16QAM	1	49	18.29	0.067	18.34	0.068	18.28	0.067
10	16QAM	25	0	17.53	0.057	17.28	0.053	17.35	0.054
10	16QAM	25	12	17.39	0.055	17.46	0.056	17.41	0.055
10	16QAM	25	25	17.34	0.054	17.46	0.056	17.44	0.055
10	16QAM	50	0	17.36	0.054	17.35	0.054	17.43	0.055



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	19.06	0.081	19.13	0.082	19.06	0.081
5	QPSK	1	12	18.88	0.077	19.03	0.080	18.96	0.079
5	QPSK	1	24	18.73	0.075	18.92	0.078	18.83	0.076
5	QPSK	12	0	17.71	0.059	17.98	0.063	17.77	0.060
5	QPSK	12	7	17.68	0.059	17.87	0.061	17.73	0.059
5	QPSK	12	13	17.56	0.057	17.84	0.061	17.64	0.058
5	QPSK	25	0	17.48	0.056	17.72	0.059	17.59	0.057
5	16QAM	1	0	18.35	0.068	18.38	0.069	18.27	0.067
5	16QAM	1	12	18.34	0.068	18.22	0.066	18.23	0.067
5	16QAM	1	24	18.18	0.066	18.17	0.066	18.20	0.066
5	16QAM	12	0	17.30	0.054	17.11	0.051	17.22	0.053
5	16QAM	12	7	17.18	0.052	17.31	0.054	17.26	0.053
5	16QAM	12	13	17.14	0.052	17.34	0.054	17.31	0.054
5	16QAM	25	0	17.24	0.053	17.24	0.053	17.23	0.053



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	19.08	0.081	19.16	0.082	19.03	0.080
3	QPSK	1	8	18.85	0.077	19.05	0.080	18.88	0.077
3	QPSK	1	14	18.73	0.075	18.93	0.078	18.76	0.075
3	QPSK	8	0	17.76	0.060	17.97	0.063	17.84	0.061
3	QPSK	8	4	17.60	0.058	17.87	0.061	17.68	0.059
3	QPSK	8	7	17.52	0.056	17.83	0.061	17.64	0.058
3	QPSK	15	0	17.56	0.057	17.76	0.060	17.62	0.058
3	16QAM	1	0	18.36	0.069	18.27	0.067	18.26	0.067
3	16QAM	1	8	18.24	0.067	18.14	0.065	18.18	0.066
3	16QAM	1	14	18.14	0.065	18.20	0.066	18.19	0.066
3	16QAM	8	0	17.32	0.054	17.11	0.051	17.26	0.053
3	16QAM	8	4	17.21	0.053	17.32	0.054	17.30	0.054
3	16QAM	8	7	17.23	0.053	17.30	0.054	17.25	0.053
3	16QAM	15	0	17.16	0.052	17.17	0.052	17.28	0.053



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	19.08	0.081	19.18	0.083	18.97	0.079
1.4	QPSK	1	3	18.94	0.078	19.04	0.080	18.82	0.076
1.4	QPSK	1	5	18.76	0.075	18.86	0.077	18.74	0.075
1.4	QPSK	3	0	17.78	0.060	17.95	0.062	17.81	0.060
1.4	QPSK	3	1	17.64	0.058	17.90	0.062	17.76	0.060
1.4	QPSK	3	3	17.51	0.056	17.84	0.061	17.59	0.057
1.4	QPSK	6	0	17.43	0.055	17.65	0.058	17.60	0.058
1.4	16QAM	1	0	18.31	0.068	18.27	0.067	18.28	0.067
1.4	16QAM	1	3	18.28	0.067	18.10	0.065	18.15	0.065
1.4	16QAM	1	5	18.09	0.064	18.14	0.065	18.13	0.065
1.4	16QAM	3	0	17.32	0.054	17.18	0.052	17.21	0.053
1.4	16QAM	3	1	17.26	0.053	17.30	0.054	17.26	0.053
1.4	16QAM	3	3	17.21	0.053	17.26	0.053	17.22	0.053
1.4	16QAM	6	0	17.25	0.053	17.16	0.052	17.35	0.054



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23060		23095		23130	
Frequency (MHz)				704		707.5		711	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	21.21	0.132	21.29	0.135	21.21	0.132
10	QPSK	1	25	21.10	0.129	21.15	0.130	21.13	0.130
10	QPSK	1	49	21.05	0.127	21.05	0.127	21.05	0.127
10	QPSK	25	0	20.00	0.100	20.04	0.101	20.27	0.106
10	QPSK	25	12	19.94	0.099	19.97	0.099	20.16	0.104
10	QPSK	25	25	19.88	0.097	19.91	0.098	20.09	0.102
10	QPSK	50	0	19.81	0.096	19.83	0.096	20.01	0.100
10	16QAM	1	0	20.57	0.114	20.46	0.111	20.59	0.115
10	16QAM	1	25	20.49	0.112	20.49	0.112	20.45	0.111
10	16QAM	1	49	20.43	0.110	20.41	0.110	20.40	0.110
10	16QAM	25	0	19.35	0.086	19.45	0.088	19.52	0.090
10	16QAM	25	12	19.25	0.084	19.28	0.085	19.25	0.084
10	16QAM	25	25	19.25	0.084	19.28	0.085	19.21	0.083
10	16QAM	50	0	19.15	0.082	19.17	0.083	19.22	0.084



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23035		23095		23155	
Frequency (MHz)				701.5		707.5		713.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	21.14	0.130	21.20	0.132	21.13	0.130
5	QPSK	1	12	20.95	0.124	21.07	0.128	20.93	0.124
5	QPSK	1	24	20.87	0.122	20.93	0.124	20.91	0.123
5	QPSK	12	0	19.81	0.096	19.89	0.097	20.10	0.102
5	QPSK	12	7	19.77	0.095	19.85	0.097	19.97	0.099
5	QPSK	12	13	19.78	0.095	19.68	0.093	20.01	0.100
5	QPSK	25	0	19.66	0.092	19.70	0.093	19.78	0.095
5	16QAM	1	0	20.36	0.109	20.23	0.105	20.38	0.109
5	16QAM	1	12	20.36	0.109	20.28	0.107	20.35	0.108
5	16QAM	1	24	20.23	0.105	20.30	0.107	20.25	0.106
5	16QAM	12	0	19.15	0.082	19.24	0.084	19.40	0.087
5	16QAM	12	7	19.07	0.081	19.08	0.081	19.06	0.081
5	16QAM	12	13	19.07	0.081	19.10	0.081	19.11	0.081
5	16QAM	25	0	18.94	0.078	19.08	0.081	19.00	0.079



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23025		23095		23165	
Frequency (MHz)				700.5		707.5		714.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	21.11	0.129	21.19	0.132	21.06	0.128
3	QPSK	1	8	20.94	0.124	21.04	0.127	21.05	0.127
3	QPSK	1	14	20.85	0.122	20.90	0.123	20.94	0.124
3	QPSK	8	0	19.85	0.097	19.91	0.098	20.14	0.103
3	QPSK	8	4	19.84	0.096	19.85	0.097	19.99	0.100
3	QPSK	8	7	19.73	0.094	19.78	0.095	20.00	0.100
3	QPSK	15	0	19.71	0.094	19.70	0.093	19.90	0.098
3	16QAM	1	0	20.44	0.111	20.36	0.109	20.38	0.109
3	16QAM	1	8	20.31	0.107	20.27	0.106	20.32	0.108
3	16QAM	1	14	20.22	0.105	20.28	0.107	20.23	0.105
3	16QAM	8	0	19.12	0.082	19.23	0.084	19.35	0.086
3	16QAM	8	4	19.09	0.081	19.14	0.082	19.03	0.080
3	16QAM	8	7	19.08	0.081	19.15	0.082	19.12	0.082
3	16QAM	15	0	19.04	0.080	19.09	0.081	19.12	0.082



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23017		23095		23173	
Frequency (MHz)				699.7		707.5		715.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	21.12	0.129	21.19	0.132	21.12	0.129
1.4	QPSK	1	3	20.88	0.122	20.96	0.125	20.99	0.126
1.4	QPSK	1	5	20.90	0.123	20.87	0.122	20.90	0.123
1.4	QPSK	3	0	19.91	0.098	19.94	0.099	20.09	0.102
1.4	QPSK	3	1	19.76	0.095	19.78	0.095	20.06	0.101
1.4	QPSK	3	3	19.79	0.095	19.72	0.094	19.91	0.098
1.4	QPSK	6	0	19.59	0.091	19.69	0.093	19.84	0.096
1.4	16QAM	1	0	20.35	0.108	20.28	0.107	20.39	0.109
1.4	16QAM	1	3	20.27	0.106	20.35	0.108	20.30	0.107
1.4	16QAM	1	5	20.28	0.107	20.19	0.104	20.21	0.105
1.4	16QAM	3	0	19.18	0.083	19.25	0.084	19.34	0.086
1.4	16QAM	3	1	19.07	0.081	19.09	0.081	19.05	0.080
1.4	16QAM	3	3	19.06	0.081	19.07	0.081	19.10	0.081
1.4	16QAM	6	0	18.98	0.079	18.94	0.078	19.02	0.080



LTE Band 17				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23780		23790		23800	
Frequency (MHz)				709		710		711	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	21.28	0.134	21.35	0.136	21.33	0.136
10	QPSK	1	25	21.16	0.131	21.30	0.135	21.25	0.133
10	QPSK	1	49	21.11	0.129	21.22	0.132	21.18	0.131
10	QPSK	25	0	20.32	0.108	20.42	0.110	20.39	0.109
10	QPSK	25	12	20.18	0.104	20.31	0.107	20.32	0.108
10	QPSK	25	25	20.10	0.102	20.24	0.106	20.25	0.106
10	QPSK	50	0	20.01	0.100	20.17	0.104	20.18	0.104
10	16QAM	1	0	20.66	0.116	20.49	0.112	20.67	0.117
10	16QAM	1	25	20.50	0.112	20.53	0.113	20.49	0.112
10	16QAM	1	49	20.45	0.111	20.44	0.111	20.41	0.110
10	16QAM	25	0	19.43	0.088	19.61	0.091	19.38	0.087
10	16QAM	25	12	19.31	0.085	19.34	0.086	19.34	0.086
10	16QAM	25	25	19.37	0.086	19.31	0.085	19.24	0.084
10	16QAM	50	0	19.34	0.086	19.28	0.085	19.30	0.085



LTE Band 17				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23755		23790		23825	
Frequency (MHz)				706.5		710		713.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	21.21	0.132	21.28	0.134	21.25	0.133
5	QPSK	1	12	20.99	0.126	21.08	0.128	21.05	0.127
5	QPSK	1	24	20.90	0.123	21.01	0.126	21.06	0.128
5	QPSK	12	0	20.19	0.104	20.29	0.107	20.27	0.106
5	QPSK	12	7	19.95	0.099	20.23	0.105	20.18	0.104
5	QPSK	12	13	19.91	0.098	20.02	0.100	20.12	0.103
5	QPSK	25	0	19.90	0.098	19.95	0.099	20.02	0.100
5	16QAM	1	0	20.45	0.111	20.29	0.107	20.58	0.114
5	16QAM	1	12	20.35	0.108	20.33	0.108	20.27	0.106
5	16QAM	1	24	20.23	0.105	20.24	0.106	20.24	0.106
5	16QAM	12	0	19.30	0.085	19.49	0.089	19.27	0.085
5	16QAM	12	7	19.13	0.082	19.19	0.083	19.20	0.083
5	16QAM	12	13	19.18	0.083	19.12	0.082	19.08	0.081
5	16QAM	25	0	19.23	0.084	19.11	0.081	19.09	0.081



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	22.98	0.199	22.99	0.199	22.90	0.195
20	QPSK	1	49	22.91	0.195	22.92	0.196	22.79	0.190
20	QPSK	1	99	22.84	0.192	22.83	0.192	22.70	0.186
20	QPSK	50	0	21.85	0.153	21.79	0.151	21.60	0.145
20	QPSK	50	24	21.79	0.151	21.71	0.148	21.51	0.142
20	QPSK	50	50	21.71	0.148	21.63	0.146	21.44	0.139
20	QPSK	100	0	21.63	0.146	21.54	0.143	21.38	0.137
20	16QAM	1	0	22.35	0.172	22.24	0.167	22.35	0.172
20	16QAM	1	49	22.22	0.167	22.25	0.168	22.24	0.167
20	16QAM	1	99	22.14	0.164	22.19	0.166	22.22	0.167
20	16QAM	50	0	21.10	0.129	21.32	0.136	21.15	0.130
20	16QAM	50	24	20.99	0.126	21.02	0.126	21.03	0.127
20	16QAM	50	50	20.90	0.123	20.98	0.125	21.02	0.126
20	16QAM	100	0	21.02	0.126	20.91	0.123	20.96	0.125



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	22.86	0.193	22.93	0.196	22.76	0.189
15	QPSK	1	37	22.83	0.192	22.82	0.191	22.62	0.183
15	QPSK	1	74	22.66	0.185	22.65	0.184	22.58	0.181
15	QPSK	36	0	21.69	0.148	21.70	0.148	21.48	0.141
15	QPSK	36	20	21.60	0.145	21.55	0.143	21.36	0.137
15	QPSK	36	39	21.59	0.144	21.52	0.142	21.29	0.135
15	QPSK	75	0	21.46	0.140	21.42	0.139	21.22	0.132
15	16QAM	1	0	22.15	0.164	22.09	0.162	22.16	0.164
15	16QAM	1	37	22.08	0.161	22.07	0.161	22.10	0.162
15	16QAM	1	74	22.03	0.160	22.04	0.160	22.03	0.160
15	16QAM	36	0	20.96	0.125	21.22	0.132	20.97	0.125
15	16QAM	36	20	20.91	0.123	20.80	0.120	20.86	0.122
15	16QAM	36	39	20.80	0.120	20.82	0.121	20.91	0.123
15	16QAM	75	0	20.83	0.121	20.83	0.121	20.85	0.122



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	22.91	0.195	22.85	0.193	22.75	0.188
10	QPSK	1	25	22.72	0.187	22.74	0.188	22.58	0.181
10	QPSK	1	49	22.66	0.185	22.74	0.188	22.60	0.182
10	QPSK	25	0	21.73	0.149	21.69	0.148	21.51	0.142
10	QPSK	25	12	21.60	0.145	21.51	0.142	21.32	0.136
10	QPSK	25	25	21.61	0.145	21.45	0.140	21.30	0.135
10	QPSK	50	0	21.54	0.143	21.45	0.140	21.19	0.132
10	16QAM	1	0	22.26	0.168	22.04	0.160	22.17	0.165
10	16QAM	1	25	22.06	0.161	22.14	0.164	22.07	0.161
10	16QAM	1	49	22.00	0.158	22.08	0.161	22.00	0.158
10	16QAM	25	0	20.93	0.124	21.11	0.129	21.05	0.127
10	16QAM	25	12	20.86	0.122	20.79	0.120	20.89	0.123
10	16QAM	25	25	20.77	0.119	20.84	0.121	20.81	0.121
10	16QAM	50	0	20.83	0.121	20.75	0.119	20.85	0.122



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	22.84	0.192	22.86	0.193	22.84	0.192
5	QPSK	1	12	22.78	0.190	22.83	0.192	22.60	0.182
5	QPSK	1	24	22.63	0.183	22.69	0.186	22.61	0.182
5	QPSK	12	0	21.67	0.147	21.64	0.146	21.51	0.142
5	QPSK	12	7	21.66	0.147	21.50	0.141	21.39	0.138
5	QPSK	12	13	21.60	0.145	21.53	0.142	21.33	0.136
5	QPSK	25	0	21.50	0.141	21.36	0.137	21.25	0.133
5	16QAM	1	0	22.15	0.164	22.02	0.159	22.12	0.163
5	16QAM	1	12	22.05	0.160	22.13	0.163	22.07	0.161
5	16QAM	1	24	21.92	0.156	22.00	0.158	22.12	0.163
5	16QAM	12	0	20.99	0.126	21.14	0.130	21.00	0.126
5	16QAM	12	7	20.85	0.122	20.86	0.122	20.81	0.121
5	16QAM	12	13	20.75	0.119	20.83	0.121	20.86	0.122
5	16QAM	25	0	20.85	0.122	20.77	0.119	20.78	0.120



REPORT No.: SZ24080312W05

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	22.88	0.194	22.92	0.196	22.77	0.189
3	QPSK	1	8	22.78	0.190	22.83	0.192	22.61	0.182
3	QPSK	1	14	22.74	0.188	22.70	0.186	22.60	0.182
3	QPSK	8	0	21.74	0.149	21.57	0.144	21.52	0.142
3	QPSK	8	4	21.66	0.147	21.50	0.141	21.28	0.134
3	QPSK	8	7	21.55	0.143	21.44	0.139	21.31	0.135
3	QPSK	15	0	21.54	0.143	21.33	0.136	21.19	0.132
3	16QAM	1	0	22.16	0.164	22.09	0.162	22.14	0.164
3	16QAM	1	8	22.02	0.159	22.08	0.161	22.03	0.160
3	16QAM	1	14	21.92	0.156	22.09	0.162	22.00	0.158
3	16QAM	8	0	20.99	0.126	21.21	0.132	20.97	0.125
3	16QAM	8	4	20.81	0.121	20.91	0.123	20.86	0.122
3	16QAM	8	7	20.72	0.118	20.88	0.122	20.88	0.122
3	16QAM	15	0	20.91	0.123	20.72	0.118	20.80	0.120



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	22.91	0.195	22.88	0.194	22.79	0.190
1.4	QPSK	1	3	22.76	0.189	22.81	0.191	22.61	0.182
1.4	QPSK	1	5	22.69	0.186	22.71	0.187	22.53	0.179
1.4	QPSK	3	0	21.67	0.147	21.63	0.146	21.40	0.138
1.4	QPSK	3	1	21.61	0.145	21.57	0.144	21.32	0.136
1.4	QPSK	3	3	21.49	0.141	21.54	0.143	21.34	0.136
1.4	QPSK	6	0	21.48	0.141	21.34	0.136	21.27	0.134
1.4	16QAM	1	0	22.23	0.167	22.07	0.161	22.20	0.166
1.4	16QAM	1	3	22.13	0.163	22.07	0.161	22.10	0.162
1.4	16QAM	1	5	22.01	0.159	22.04	0.160	22.05	0.160
1.4	16QAM	3	0	20.94	0.124	21.19	0.132	20.99	0.126
1.4	16QAM	3	1	20.90	0.123	20.89	0.123	20.88	0.122
1.4	16QAM	3	3	20.71	0.118	20.89	0.123	20.93	0.124
1.4	16QAM	6	0	20.91	0.123	20.80	0.120	20.81	0.121



REPORT No.: SZ24080312W05

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	19.24	0.084	19.26	0.084	19.20	0.083
20	QPSK	1	49	19.15	0.082	19.16	0.082	19.05	0.080
20	QPSK	1	99	19.06	0.081	19.11	0.081	18.96	0.079
20	QPSK	50	0	18.04	0.064	18.28	0.067	18.15	0.065
20	QPSK	50	24	17.99	0.063	18.22	0.066	18.09	0.064
20	QPSK	50	50	17.93	0.062	18.13	0.065	18.01	0.063
20	QPSK	100	0	17.87	0.061	18.04	0.064	17.93	0.062
20	16QAM	1	0	18.51	0.071	18.66	0.073	18.51	0.071
20	16QAM	1	49	18.33	0.068	18.37	0.069	18.43	0.070
20	16QAM	1	99	18.27	0.067	18.38	0.069	18.37	0.069
20	16QAM	50	0	17.41	0.055	17.54	0.057	17.53	0.057
20	16QAM	50	24	17.34	0.054	17.30	0.054	17.29	0.054
20	16QAM	50	50	17.24	0.053	17.26	0.053	17.34	0.054
20	16QAM	100	0	17.32	0.054	17.33	0.054	17.22	0.053



REPORT No.: SZ24080312W05

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	19.11	0.081	19.16	0.082	19.09	0.081
15	QPSK	1	37	18.99	0.079	18.97	0.079	18.93	0.078
15	QPSK	1	74	18.88	0.077	18.97	0.079	18.75	0.075
15	QPSK	36	0	17.92	0.062	18.09	0.064	17.95	0.062
15	QPSK	36	20	17.80	0.060	18.13	0.065	17.90	0.062
15	QPSK	36	39	17.74	0.059	17.98	0.063	17.78	0.060
15	QPSK	75	0	17.75	0.060	17.91	0.062	17.82	0.061
15	16QAM	1	0	18.31	0.068	18.56	0.072	18.33	0.068
15	16QAM	1	37	18.12	0.065	18.22	0.066	18.31	0.068
15	16QAM	1	74	18.16	0.065	18.25	0.067	18.22	0.066
15	16QAM	36	0	17.24	0.053	17.37	0.055	17.43	0.055
15	16QAM	36	20	17.25	0.053	17.15	0.052	17.10	0.051
15	16QAM	36	39	17.04	0.051	17.10	0.051	17.25	0.053
15	16QAM	75	0	17.10	0.051	17.16	0.052	17.14	0.052



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	19.16	0.082	19.16	0.082	19.08	0.081
10	QPSK	1	25	18.97	0.079	18.95	0.079	18.82	0.076
10	QPSK	1	49	18.88	0.077	18.94	0.078	18.82	0.076
10	QPSK	25	0	17.95	0.062	18.07	0.064	17.98	0.063
10	QPSK	25	12	17.88	0.061	18.11	0.065	17.99	0.063
10	QPSK	25	25	17.81	0.060	17.90	0.062	17.83	0.061
10	QPSK	50	0	17.73	0.059	17.92	0.062	17.74	0.059
10	16QAM	1	0	18.28	0.067	18.49	0.071	18.34	0.068
10	16QAM	1	25	18.17	0.066	18.22	0.066	18.30	0.068
10	16QAM	1	49	18.07	0.064	18.16	0.065	18.14	0.065
10	16QAM	25	0	17.19	0.052	17.41	0.055	17.44	0.055
10	16QAM	25	12	17.20	0.052	17.14	0.052	17.14	0.052
10	16QAM	25	25	17.03	0.050	17.03	0.050	17.14	0.052
10	16QAM	50	0	17.18	0.052	17.11	0.051	17.10	0.051



REPORT No.: SZ24080312W05

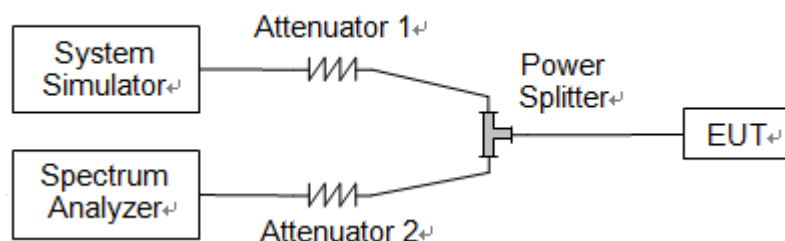
LTE Band 71				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				133147		133247		133447	
Frequency (MHz)				665.5		675.5		695.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	19.15	0.082	19.12	0.082	19.06	0.081
5	QPSK	1	12	18.93	0.078	18.97	0.079	18.85	0.077
5	QPSK	1	24	18.94	0.078	18.97	0.079	18.76	0.075
5	QPSK	12	0	17.93	0.062	18.11	0.065	18.04	0.064
5	QPSK	12	7	17.88	0.061	18.09	0.064	17.96	0.063
5	QPSK	12	13	17.73	0.059	17.99	0.063	17.87	0.061
5	QPSK	25	0	17.68	0.059	17.82	0.061	17.72	0.059
5	16QAM	1	0	18.34	0.068	18.52	0.071	18.42	0.070
5	16QAM	1	12	18.23	0.067	18.22	0.066	18.33	0.068
5	16QAM	1	24	18.18	0.066	18.17	0.066	18.17	0.066
5	16QAM	12	0	17.32	0.054	17.34	0.054	17.40	0.055
5	16QAM	12	7	17.25	0.053	17.09	0.051	17.08	0.051
5	16QAM	12	13	17.14	0.052	17.17	0.052	17.17	0.052
5	16QAM	25	0	17.13	0.052	17.21	0.053	17.08	0.051

2.2. Occupied Bandwidth

2.2.1. Requirement

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

2.2.2. Test Description



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

2.2.3. Test Procedure

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

**2.2.4. Test Result**

LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B2	1.4	Low	18607	1850.7	QPSK	1.0931	1.2430	PASS
B2	1.4	Low	18607	1850.7	16QAM	1.0993	1.2571	PASS
B2	1.4	Mid	18900	1880	QPSK	1.0977	1.2588	PASS
B2	1.4	Mid	18900	1880	16QAM	1.1007	1.2574	PASS
B2	1.4	High	19193	1909.3	QPSK	1.1012	1.2498	PASS
B2	1.4	High	19193	1909.3	16QAM	1.1043	1.2495	PASS
B2	3	Low	18615	1851.5	QPSK	2.7188	3.0496	PASS
B2	3	Low	18615	1851.5	16QAM	2.7053	3.0576	PASS
B2	3	Mid	18900	1880	QPSK	2.7136	3.0661	PASS
B2	3	Mid	18900	1880	16QAM	2.7124	3.0743	PASS
B2	3	High	19185	1908.5	QPSK	2.7209	3.0660	PASS
B2	3	High	19185	1908.5	16QAM	2.7198	3.0681	PASS
B2	5	Low	18625	1852.5	QPSK	4.4745	4.8932	PASS
B2	5	Low	18625	1852.5	16QAM	4.4794	4.9237	PASS
B2	5	Mid	18900	1880	QPSK	4.4732	4.9144	PASS
B2	5	Mid	18900	1880	16QAM	4.4699	4.8938	PASS
B2	5	High	19175	1907.5	QPSK	4.4733	4.8916	PASS
B2	5	High	19175	1907.5	16QAM	4.4766	4.9236	PASS
B2	10	Low	18650	1855	QPSK	8.9473	9.7689	PASS
B2	10	Low	18650	1855	16QAM	8.9336	9.7067	PASS
B2	10	Mid	18900	1880	QPSK	8.9650	9.7841	PASS
B2	10	Mid	18900	1880	16QAM	8.9405	9.7013	PASS
B2	10	High	19150	1905	QPSK	8.9602	9.7755	PASS
B2	10	High	19150	1905	16QAM	8.9302	9.6754	PASS
B2	15	Low	18675	1857.5	QPSK	13.445	14.526	PASS
B2	15	Low	18675	1857.5	16QAM	13.411	14.727	PASS
B2	15	Mid	18900	1880	QPSK	13.453	14.626	PASS
B2	15	Mid	18900	1880	16QAM	13.421	14.860	PASS
B2	15	High	19125	1902.5	QPSK	13.419	14.687	PASS
B2	15	High	19125	1902.5	16QAM	13.415	14.667	PASS
B2	20	Low	18700	1860	QPSK	17.896	19.347	PASS
B2	20	Low	18700	1860	16QAM	17.910	19.430	PASS
B2	20	Mid	18900	1880	QPSK	17.907	19.453	PASS



REPORT No.: SZ24080312W05

B2	20	Mid	18900	1880	16QAM	17.900	19.437	PASS
B2	20	High	19100	1900	QPSK	17.903	19.412	PASS
B2	20	High	19100	1900	16QAM	17.884	19.591	PASS

LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B4	1.4	Low	19957	1710.7	QPSK	1.0986	1.2504	PASS
B4	1.4	Low	19957	1710.7	16QAM	1.0991	1.2528	PASS
B4	1.4	Mid	20175	1732.5	QPSK	1.0955	1.2426	PASS
B4	1.4	Mid	20175	1732.5	16QAM	1.0976	1.2508	PASS
B4	1.4	High	20393	1754.3	QPSK	1.0945	1.2467	PASS
B4	1.4	High	20393	1754.3	16QAM	1.1003	1.2552	PASS
B4	3	Low	19965	1711.5	QPSK	2.7195	3.0628	PASS
B4	3	Low	19965	1711.5	16QAM	2.7228	3.0578	PASS
B4	3	Mid	20175	1732.5	QPSK	2.7163	3.0345	PASS
B4	3	Mid	20175	1732.5	16QAM	2.7202	3.0585	PASS
B4	3	High	20385	1753.5	QPSK	2.7120	3.0412	PASS
B4	3	High	20385	1753.5	16QAM	2.7130	3.0444	PASS
B4	5	Low	19975	1712.5	QPSK	4.4715	4.8941	PASS
B4	5	Low	19975	1712.5	16QAM	4.4626	4.9216	PASS
B4	5	Mid	20175	1732.5	QPSK	4.4715	4.9004	PASS
B4	5	Mid	20175	1732.5	16QAM	4.4756	4.9068	PASS
B4	5	High	20375	1752.5	QPSK	4.4654	4.8819	PASS
B4	5	High	20375	1752.5	16QAM	4.4802	4.8952	PASS
B4	10	Low	20000	1715	QPSK	8.9690	9.7815	PASS
B4	10	Low	20000	1715	16QAM	8.9382	9.6805	PASS
B4	10	Mid	20175	1732.5	QPSK	8.9406	9.6603	PASS
B4	10	Mid	20175	1732.5	16QAM	8.9336	9.6665	PASS
B4	10	High	20350	1750	QPSK	8.9499	9.6440	PASS
B4	10	High	20350	1750	16QAM	8.9338	9.6725	PASS
B4	15	Low	20025	1717.5	QPSK	13.419	14.611	PASS
B4	15	Low	20025	1717.5	16QAM	13.437	14.749	PASS
B4	15	Mid	20175	1732.5	QPSK	13.442	14.672	PASS
B4	15	Mid	20175	1732.5	16QAM	13.426	14.788	PASS
B4	15	High	20325	1747.5	QPSK	13.427	14.577	PASS
B4	15	High	20325	1747.5	16QAM	13.409	14.588	PASS
B4	20	Low	20050	1720	QPSK	17.882	19.396	PASS



B4	20	Low	20050	1720	16QAM	17.925	19.590	PASS
B4	20	Mid	20175	1732.5	QPSK	17.913	19.314	PASS
B4	20	Mid	20175	1732.5	16QAM	17.923	19.437	PASS
B4	20	High	20300	1745	QPSK	17.892	19.472	PASS
B4	20	High	20300	1745	16QAM	17.917	19.480	PASS

LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B5	1.4	Low	20407	824.7	QPSK	1.0971	1.2441	PASS
B5	1.4	Low	20407	824.7	16QAM	1.0987	1.2522	PASS
B5	1.4	Mid	20525	836.5	QPSK	1.0951	1.2414	PASS
B5	1.4	Mid	20525	836.5	16QAM	1.0986	1.2477	PASS
B5	1.4	High	20643	848.3	QPSK	1.0950	1.2362	PASS
B5	1.4	High	20643	848.3	16QAM	1.0970	1.2454	PASS
B5	3	Low	20415	825.5	QPSK	2.7188	3.0636	PASS
B5	3	Low	20415	825.5	16QAM	2.7052	3.0576	PASS
B5	3	Mid	20525	836.5	QPSK	2.7166	3.0501	PASS
B5	3	Mid	20525	836.5	16QAM	2.7158	3.0665	PASS
B5	3	High	20635	847.5	QPSK	2.7130	3.0462	PASS
B5	3	High	20635	847.5	16QAM	2.7304	2.9976	PASS
B5	5	Low	20425	826.5	QPSK	4.4727	4.9042	PASS
B5	5	Low	20425	826.5	16QAM	4.4629	4.9024	PASS
B5	5	Mid	20525	836.5	QPSK	4.4687	4.8794	PASS
B5	5	Mid	20525	836.5	16QAM	4.4679	4.9153	PASS
B5	5	High	20625	846.5	QPSK	4.4709	4.8862	PASS
B5	5	High	20625	846.5	16QAM	4.4649	4.9169	PASS
B5	10	Low	20450	829	QPSK	8.9692	9.7263	PASS
B5	10	Low	20450	829	16QAM	8.9232	9.6946	PASS
B5	10	Mid	20525	836.5	QPSK	8.9495	9.7568	PASS
B5	10	Mid	20525	836.5	16QAM	8.9319	9.6880	PASS
B5	10	High	20600	844	QPSK	8.9449	9.6988	PASS
B5	10	High	20600	844	16QAM	8.9351	9.6585	PASS



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B12	1.4	Low	23017	699.7	QPSK	1.0909	1.2250	PASS
B12	1.4	Low	23017	699.7	16QAM	1.0994	1.2485	PASS
B12	1.4	Mid	23095	707.5	QPSK	1.0992	1.2484	PASS
B12	1.4	Mid	23095	707.5	16QAM	1.0975	1.2512	PASS
B12	1.4	High	23173	715.3	QPSK	1.0997	1.2456	PASS
B12	1.4	High	23173	715.3	16QAM	1.0990	1.2506	PASS
B12	3	Low	23025	700.5	QPSK	2.7142	3.0422	PASS
B12	3	Low	23025	700.5	16QAM	2.7176	3.0544	PASS
B12	3	Mid	23095	707.5	QPSK	2.7090	3.0293	PASS
B12	3	Mid	23095	707.5	16QAM	2.7106	3.0688	PASS
B12	3	High	23165	714.5	QPSK	2.7168	3.0444	PASS
B12	3	High	23165	714.5	16QAM	2.7079	3.0513	PASS
B12	5	Low	23035	701.5	QPSK	4.4697	4.8769	PASS
B12	5	Low	23035	701.5	16QAM	4.4746	4.9186	PASS
B12	5	Mid	23095	707.5	QPSK	4.4756	4.8692	PASS
B12	5	Mid	23095	707.5	16QAM	4.4663	4.9353	PASS
B12	5	High	23155	713.5	QPSK	4.4701	4.8975	PASS
B12	5	High	23155	713.5	16QAM	4.4737	4.9082	PASS
B12	10	Low	23060	704	QPSK	8.9595	9.7843	PASS
B12	10	Low	23060	704	16QAM	8.9414	9.7290	PASS
B12	10	Mid	23095	707.5	QPSK	8.9642	9.7171	PASS
B12	10	Mid	23095	707.5	16QAM	8.9328	9.6529	PASS
B12	10	High	23130	711	QPSK	8.9510	9.7324	PASS
B12	10	High	23130	711	16QAM	8.9076	9.6606	PASS



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B17	5	Low	23755	706.5	QPSK	4.4713	4.7267	PASS
B17	5	Low	23755	706.5	16QAM	4.4639	4.8688	PASS
B17	5	Mid	23790	710	QPSK	4.4706	4.8751	PASS
B17	5	Mid	23790	710	16QAM	4.4651	4.8751	PASS
B17	5	High	23825	713.5	QPSK	4.4662	4.8809	PASS
B17	5	High	23825	713.5	16QAM	4.4623	4.8815	PASS
B17	10	Low	23780	709	QPSK	8.9289	9.7689	PASS
B17	10	Low	23780	709	16QAM	8.9182	9.6686	PASS
B17	10	Mid	23790	710	QPSK	8.9470	9.7587	PASS
B17	10	Mid	23790	710	16QAM	8.9112	9.6624	PASS
B17	10	High	23800	711	QPSK	8.9538	9.7352	PASS
B17	10	High	23800	711	16QAM	8.9093	9.6310	PASS

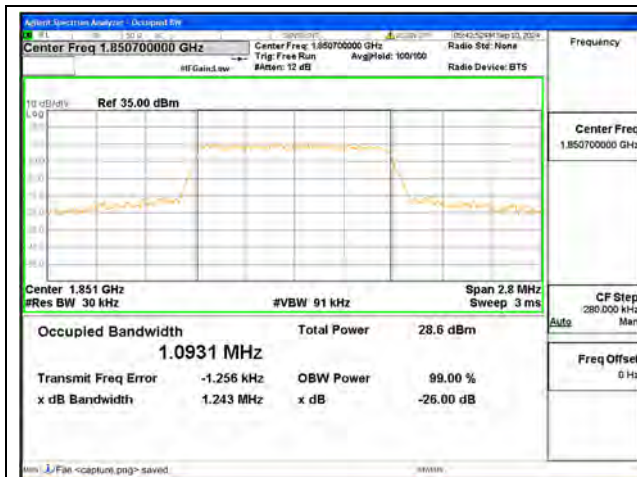


LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B66	1.4	Low	131979	1710.7	QPSK	1.1026	1.2542	PASS
B66	1.4	Low	131979	1710.7	16QAM	1.1007	1.2538	PASS
B66	1.4	Mid	132322	1745	QPSK	1.0997	1.2476	PASS
B66	1.4	Mid	132322	1745	16QAM	1.1025	1.2529	PASS
B66	1.4	High	132665	1779.3	QPSK	1.0989	1.2455	PASS
B66	1.4	High	132665	1779.3	16QAM	1.1005	1.2568	PASS
B66	3	Low	131987	1711.5	QPSK	2.7178	3.0446	PASS
B66	3	Low	131987	1711.5	16QAM	2.7231	3.0619	PASS
B66	3	Mid	132322	1745	QPSK	2.7159	3.0436	PASS
B66	3	Mid	132322	1745	16QAM	2.7128	3.0339	PASS
B66	3	High	132657	1778.5	QPSK	2.7215	3.0200	PASS
B66	3	High	132657	1778.5	16QAM	2.7227	3.0530	PASS
B66	5	Low	131997	1712.5	QPSK	4.4764	4.8838	PASS
B66	5	Low	131997	1712.5	16QAM	4.4772	4.8909	PASS
B66	5	Mid	132322	1745	QPSK	4.4740	4.9001	PASS
B66	5	Mid	132322	1745	16QAM	4.4756	4.9159	PASS
B66	5	High	132647	1777.5	QPSK	4.4730	4.8796	PASS
B66	5	High	132647	1777.5	16QAM	4.4751	4.9120	PASS
B66	10	Low	132022	1715	QPSK	8.9592	9.7582	PASS
B66	10	Low	132022	1715	16QAM	8.9276	9.6643	PASS
B66	10	Mid	132322	1745	QPSK	8.9628	9.7339	PASS
B66	10	Mid	132322	1745	16QAM	8.9354	9.6665	PASS
B66	10	High	132622	1775	QPSK	8.9654	9.7512	PASS
B66	10	High	132622	1775	16QAM	8.9280	9.6914	PASS
B66	15	Low	132047	1717.5	QPSK	13.436	14.646	PASS
B66	15	Low	132047	1717.5	16QAM	13.413	14.849	PASS
B66	15	Mid	132322	1745	QPSK	13.442	14.609	PASS
B66	15	Mid	132322	1745	16QAM	13.441	14.844	PASS
B66	15	High	132597	1772.5	QPSK	13.439	14.630	PASS
B66	15	High	132597	1772.5	16QAM	13.432	14.791	PASS
B66	20	Low	132072	1720	QPSK	17.907	19.454	PASS
B66	20	Low	132072	1720	16QAM	17.937	19.361	PASS
B66	20	Mid	132322	1745	QPSK	17.925	19.428	PASS
B66	20	Mid	132322	1745	16QAM	17.968	19.454	PASS
B66	20	High	132572	1770	QPSK	17.911	19.393	PASS

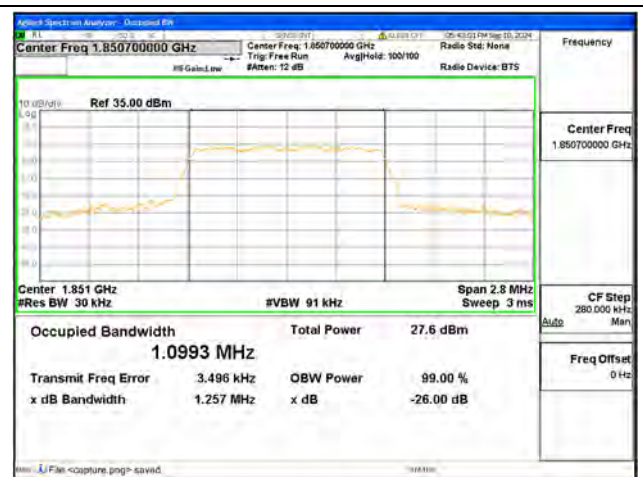


B66	20	High	132572	1770	16QAM	17.942	19.559	PASS
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LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B71	5	Low	133147	665.5	QPSK	4.4645	4.8789	PASS
B71	5	Low	133147	665.5	16QAM	4.4536	4.7586	PASS
B71	5	Mid	133297	680.5	QPSK	4.4745	4.8871	PASS
B71	5	Mid	133297	680.5	16QAM	4.4700	4.8922	PASS
B71	5	High	133447	695.5	QPSK	4.4708	4.8836	PASS
B71	5	High	133447	695.5	16QAM	4.4778	4.8940	PASS
B71	10	Low	133172	668	QPSK	8.9559	9.8047	PASS
B71	10	Low	133172	668	16QAM	8.9398	9.6758	PASS
B71	10	Mid	133297	680.5	QPSK	8.9553	9.7642	PASS
B71	10	Mid	133297	680.5	16QAM	8.9474	9.6888	PASS
B71	10	High	133422	693	QPSK	8.9764	9.7804	PASS
B71	10	High	133422	693	16QAM	8.9410	9.7386	PASS
B71	15	Low	133197	670.5	QPSK	13.433	14.597	PASS
B71	15	Low	133197	670.5	16QAM	13.414	14.637	PASS
B71	15	Mid	133297	680.5	QPSK	13.464	14.661	PASS
B71	15	Mid	133297	680.5	16QAM	13.434	14.678	PASS
B71	15	High	133397	690.5	QPSK	13.445	14.541	PASS
B71	15	High	133397	690.5	16QAM	13.396	14.704	PASS
B71	20	Low	133222	673	QPSK	17.876	19.376	PASS
B71	20	Low	133222	673	16QAM	17.908	19.419	PASS
B71	20	Mid	133322	683	QPSK	17.890	19.517	PASS
B71	20	Mid	133322	683	16QAM	17.919	19.326	PASS
B71	20	High	133372	688	QPSK	17.892	19.407	PASS
B71	20	High	133372	688	16QAM	17.885	19.381	PASS



B2 / 1.4MHz / QPSK/ Low CH



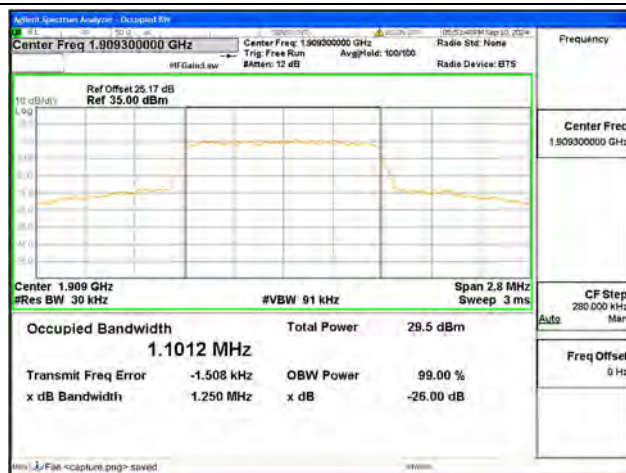
B2 / 1.4MHz / 16QAM/ Low CH



B2 / 1.4MHz / QPSK/ Mid CH



B2 / 1.4MHz / 16QAM/ Mid CH



B2 / 1.4MHz / QPSK/ High CH



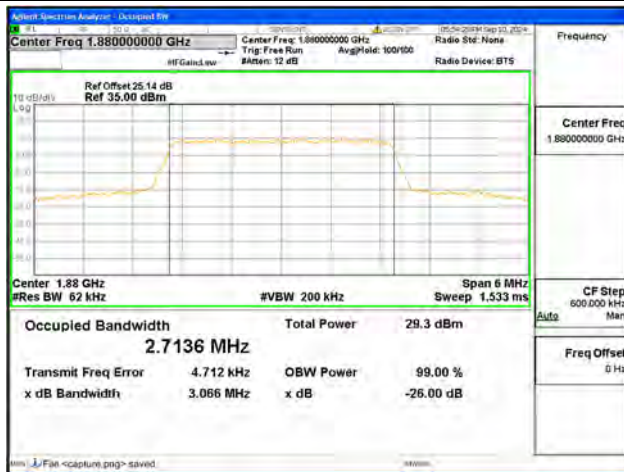
B2 / 1.4MHz / 16QAM/ High CH



B2 / 3MHz / QPSK/ Low CH



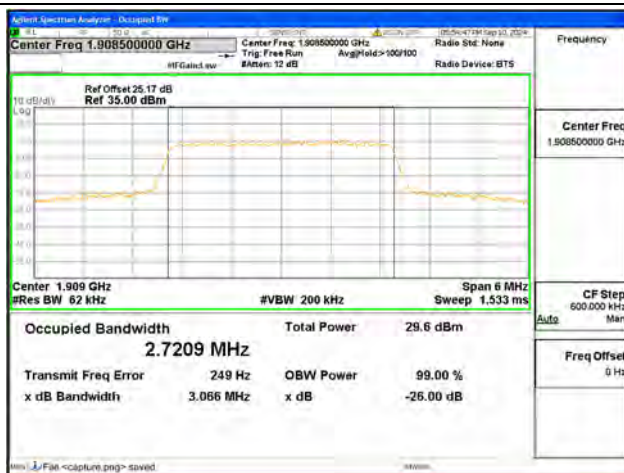
B2 / 3MHz / 16QAM/ Low CH



B2 / 3MHz / QPSK/ Mid CH



B2 / 3MHz / 16QAM/ Mid CH



B2 / 3MHz / QPSK/ High CH



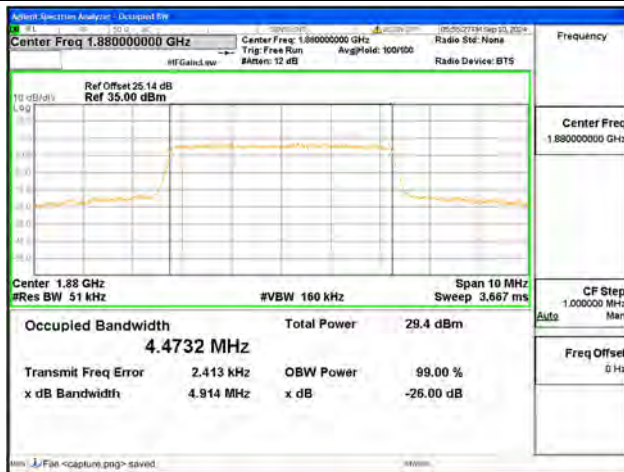
B2 / 3MHz / 16QAM/ High CH



B2 / 5MHz / QPSK/ Low CH



B2 / 5MHz / 16QAM/ Low CH



B2 / 5MHz / QPSK/ Mid CH



B2 / 5MHz / 16QAM/ Mid CH



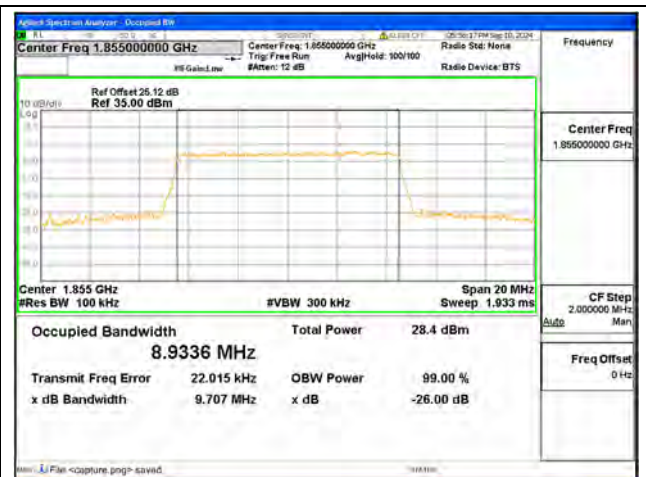
B2 / 5MHz / QPSK/ High CH



B2 / 5MHz / 16QAM/ High CH



B2 / 10MHz / QPSK/ Low CH



B2 / 10MHz / 16QAM/ Low CH



B2 / 10MHz / QPSK/ Mid CH



B2 / 10MHz / 16QAM/ Mid CH



B2 / 10MHz / QPSK/ High CH



B2 / 10MHz / 16QAM/ High CH



B2 / 15MHz / QPSK/ Low CH



B2 / 15MHz / 16QAM/ Low CH



B2 / 15MHz / QPSK/ Mid CH



B2 / 15MHz / 16QAM/ Mid CH



B2 / 15MHz / QPSK/ High CH



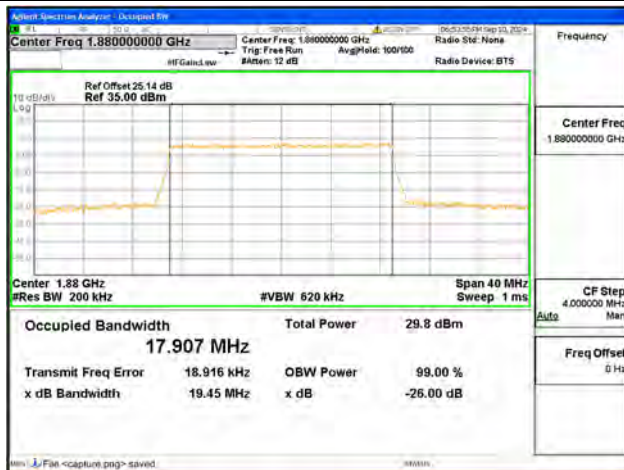
B2 / 15MHz / 16QAM/ High CH



B2 / 20MHz / QPSK/ Low CH



B2 / 20MHz / 16QAM/ Low CH



B2 / 20MHz / QPSK/ Mid CH



B2 / 20MHz / 16QAM/ Mid CH



B2 / 20MHz / QPSK/ High CH



B2 / 20MHz / 16QAM/ High CH



B4 / 1.4MHz / QPSK/ Low CH



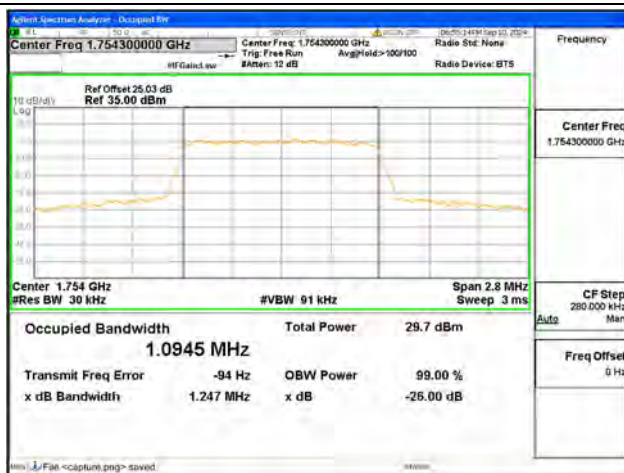
B4 / 1.4MHz / 16QAM/ Low CH



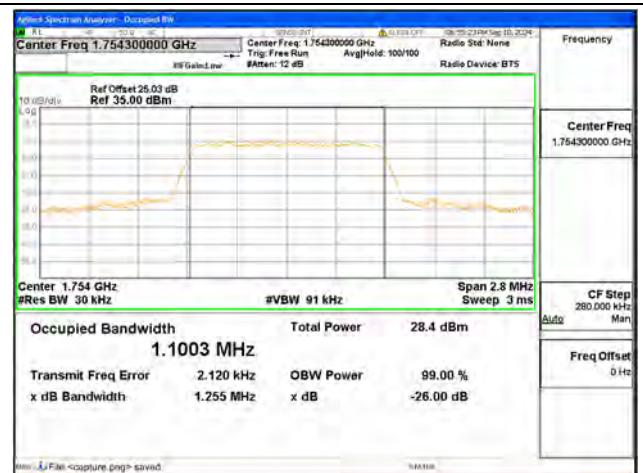
B4 / 1.4MHz / QPSK/ Mid CH



B4 / 1.4MHz / 16QAM/ Mid CH



B4 / 1.4MHz / QPSK/ High CH



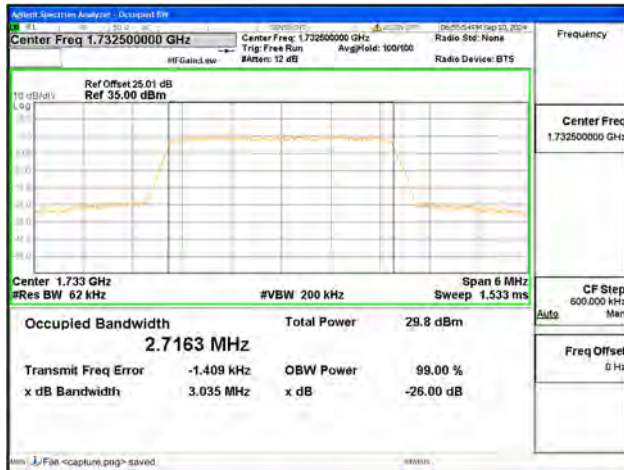
B4 / 1.4MHz / 16QAM/ High CH



B4 / 3MHz / QPSK/ Low CH



B4 / 3MHz / 16QAM/ Low CH



B4 / 3MHz / QPSK/ Mid CH



B4 / 3MHz / 16QAM/ Mid CH



B4 / 3MHz / QPSK/ High CH



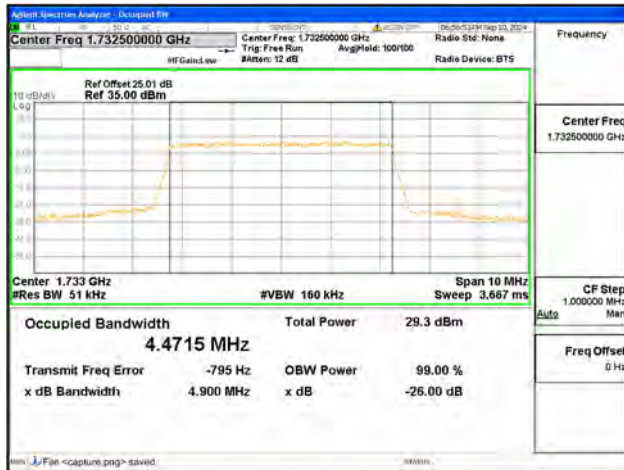
B4 / 3MHz / 16QAM/ High CH



B4 / 5MHz / QPSK/ Low CH



B4 / 5MHz / 16QAM/ Low CH



B4 / 5MHz / QPSK/ Mid CH



B4 / 5MHz / 16QAM/ Mid CH



B4 / 5MHz / QPSK/ High CH



B4 / 5MHz / 16QAM/ High CH



B4 / 10MHz / QPSK/ Low CH



B4 / 10MHz / 16QAM/ Low CH



B4 / 10MHz / QPSK/ Mid CH



B4 / 10MHz / 16QAM/ Mid CH



B4 / 10MHz / QPSK/ High CH



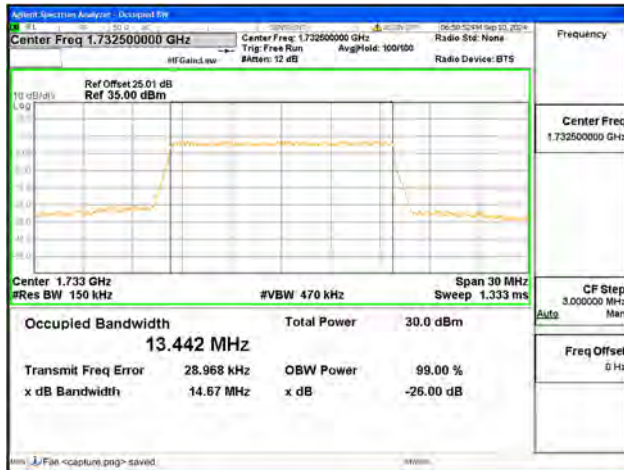
B4 / 10MHz / 16QAM/ High CH



B4 / 15MHz / QPSK/ Low CH



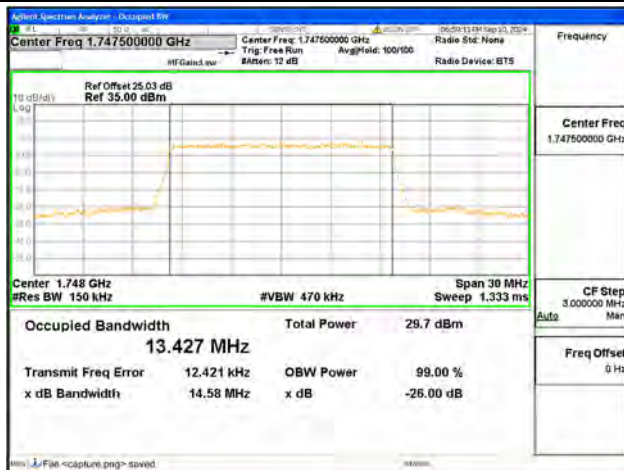
B4 / 15MHz / 16QAM/ Low CH



B4 / 15MHz / QPSK/ Mid CH



B4 / 15MHz / 16QAM/ Mid CH



B4 / 15MHz / QPSK/ High CH



B4 / 15MHz / 16QAM/ High CH



B4 / 20MHz / QPSK/ Low CH



B4 / 20MHz / 16QAM/ Low CH



B4 / 20MHz / QPSK/ Mid CH



B4 / 20MHz / 16QAM/ Mid CH



B4 / 20MHz / QPSK/ High CH



B4 / 20MHz / 16QAM/ High CH



B5 / 1.4MHz / QPSK/ Low CH



B5 / 1.4MHz / 16QAM/ Low CH



B5 / 1.4MHz / QPSK/ Mid CH



B5 / 1.4MHz / 16QAM/ Mid CH



B5 / 1.4MHz / QPSK/ High CH



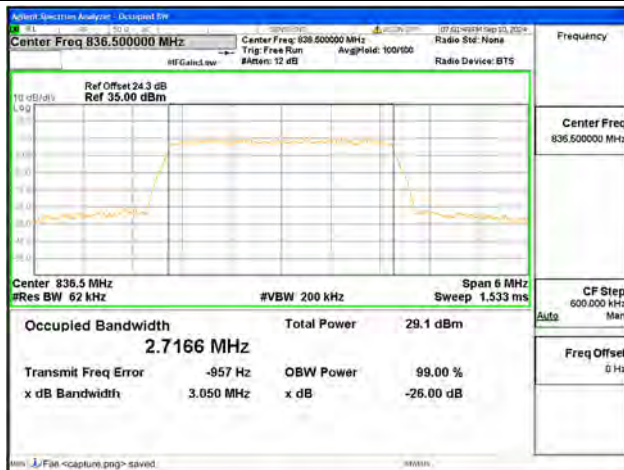
B5 / 1.4MHz / 16QAM/ High CH



B5 / 3MHz / QPSK/ Low CH



B5 / 3MHz / 16QAM/ Low CH



B5 / 3MHz / QPSK/ Mid CH



B5 / 3MHz / 16QAM/ Mid CH



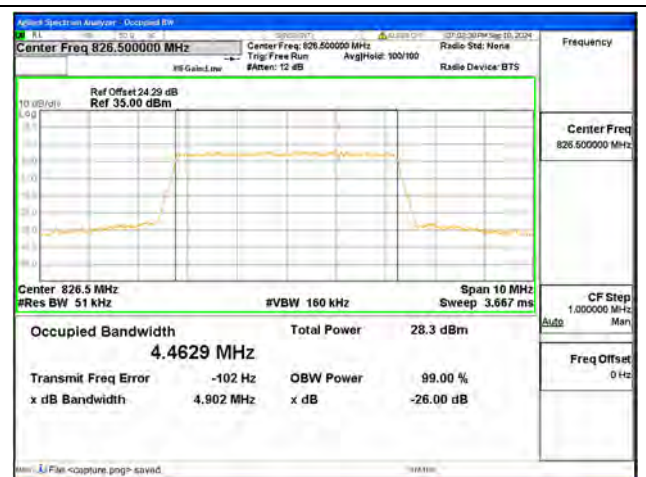
B5 / 3MHz / QPSK/ High CH



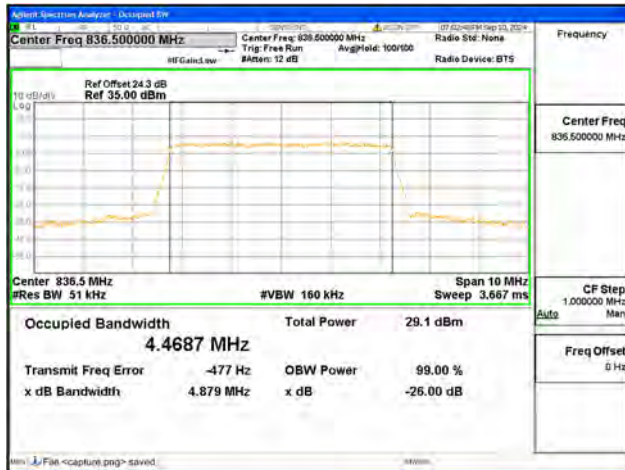
B5 / 3MHz / 16QAM/ High CH



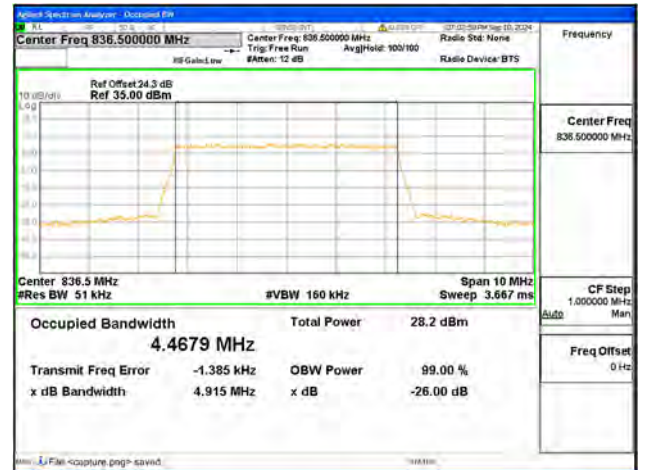
B5 / 5MHz / QPSK/ Low CH



B5 / 5MHz / 16QAM/ Low CH



B5 / 5MHz / QPSK/ Mid CH



B5 / 5MHz / 16QAM/ Mid CH



B5 / 5MHz / QPSK/ High CH



B5 / 5MHz / 16QAM/ High CH



B5 / 10MHz / QPSK/ Low CH



B5 / 10MHz / 16QAM/ Low CH



B5 / 10MHz / QPSK/ Mid CH



B5 / 10MHz / 16QAM/ Mid CH



B5 / 10MHz / QPSK/ High CH



B5 / 10MHz / 16QAM/ High CH



B12 / 1.4MHz / QPSK/ Low CH



B12 / 1.4MHz / 16QAM/ Low CH



B12 / 1.4MHz / QPSK/ Mid CH



B12 / 1.4MHz / 16QAM/ Mid CH



B12 / 1.4MHz / QPSK/ High CH



B12 / 1.4MHz / 16QAM/ High CH



B12 / 3MHz / QPSK/ Low CH



B12 / 3MHz / 16QAM/ Low CH



B12 / 3MHz / QPSK/ Mid CH



B12 / 3MHz / 16QAM/ Mid CH



B12 / 3MHz / QPSK/ High CH



B12 / 3MHz / 16QAM/ High CH



B12 / 5MHz / QPSK/ Low CH



B12 / 5MHz / 16QAM/ Low CH



B12 / 5MHz / QPSK/ Mid CH



B12 / 5MHz / 16QAM/ Mid CH



B12 / 5MHz / QPSK/ High CH



B12 / 5MHz / 16QAM/ High CH



B12 / 10MHz / QPSK/ Low CH



B12 / 10MHz / 16QAM/ Low CH



B12 / 10MHz / QPSK/ Mid CH



B12 / 10MHz / 16QAM/ Mid CH



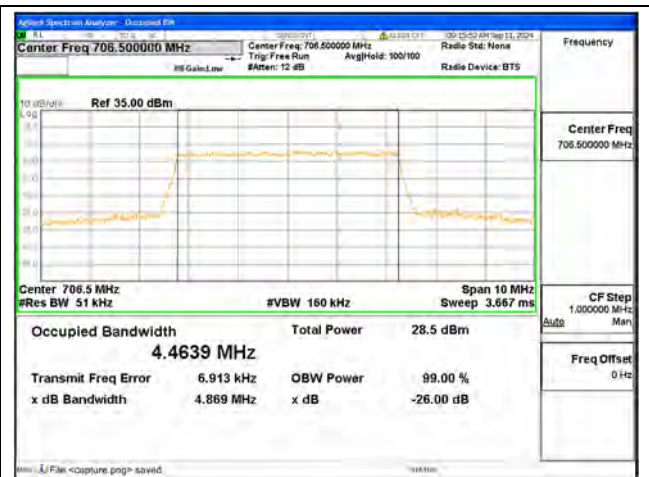
B12 / 10MHz / QPSK/ High CH



B12 / 10MHz / 16QAM/ High CH



B17 / 5MHz / QPSK/ Low CH



B17 / 5MHz / 16QAM/ Low CH



B17 / 5MHz / QPSK/ Mid CH



B17 / 5MHz / 16QAM/ Mid CH



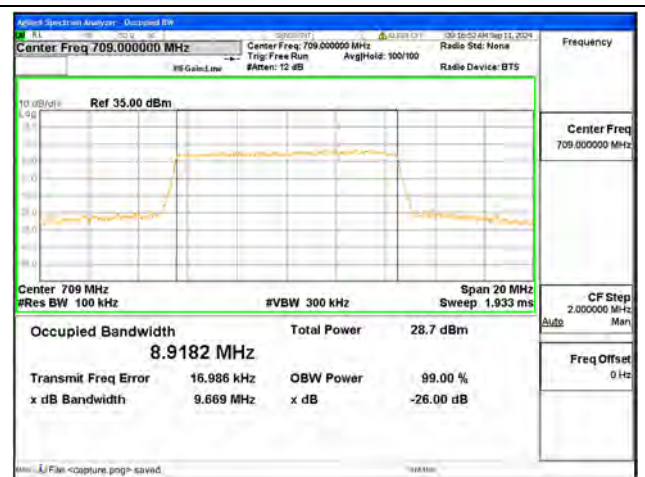
B17 / 5MHz / QPSK/ High CH



B17 / 5MHz / 16QAM/ High CH



B17 / 10MHz / QPSK/ Low CH



B17 / 10MHz / 16QAM/ Low CH



B17 / 10MHz / QPSK/ Mid CH



B17 / 10MHz / 16QAM/ Mid CH



B17 / 10MHz / QPSK/ High CH



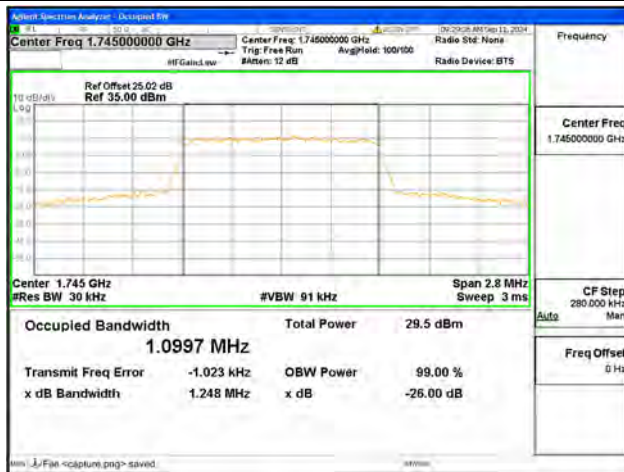
B17 / 10MHz / 16QAM/ High CH



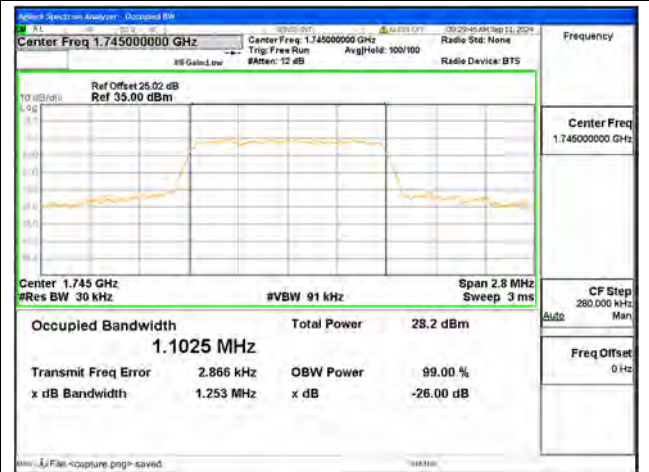
B66 / 1.4MHz / QPSK/ Low CH



B66 / 1.4MHz / 16QAM/ Low CH



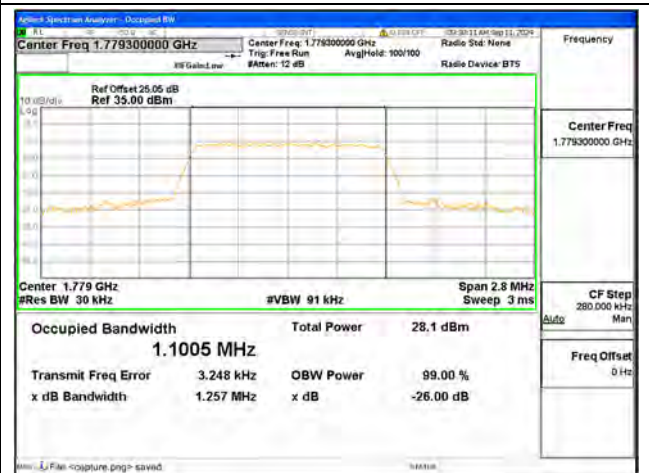
B66 / 1.4MHz / QPSK/ Mid CH



B66 / 1.4MHz / 16QAM/ Mid CH



B66 / 1.4MHz / QPSK/ High CH



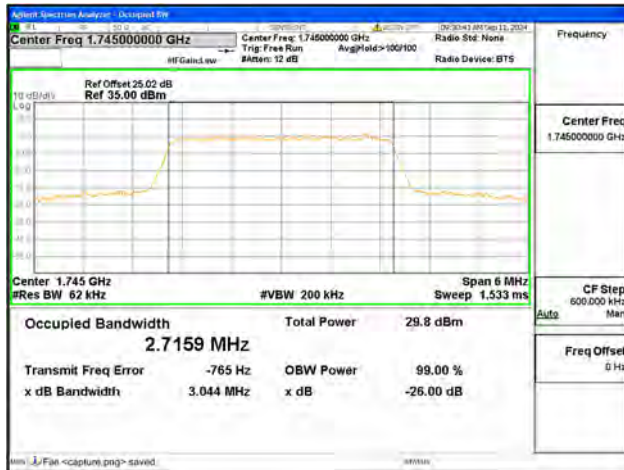
B66 / 1.4MHz / 16QAM/ High CH



B66 / 3MHz / QPSK/ Low CH



B66 / 3MHz / 16QAM/ Low CH



B66 / 3MHz / QPSK/ Mid CH



B66 / 3MHz / 16QAM/ Mid CH



B66 / 3MHz / QPSK/ High CH



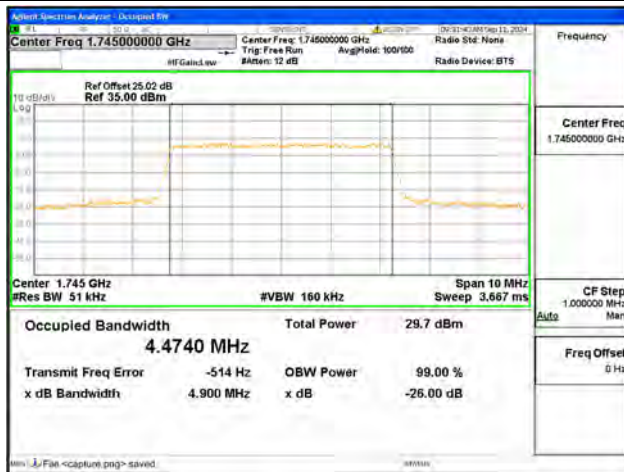
B66 / 3MHz / 16QAM/ High CH



B66 / 5MHz / QPSK/ Low CH



B66 / 5MHz / 16QAM/ Low CH



B66 / 5MHz / QPSK/ Mid CH



B66 / 5MHz / 16QAM/ Mid CH



B66 / 5MHz / QPSK/ High CH



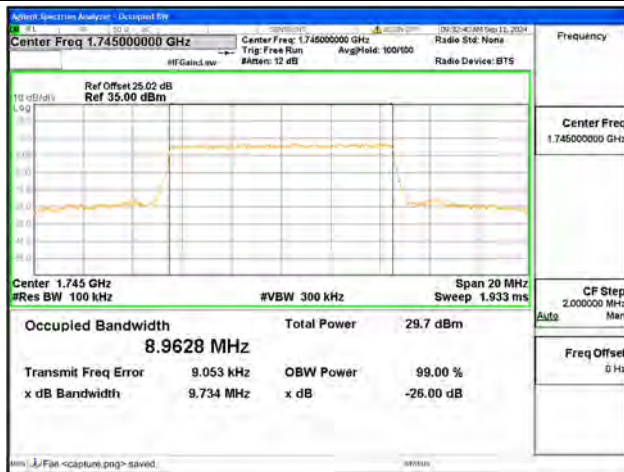
B66 / 5MHz / 16QAM/ High CH



B66 / 10MHz / QPSK/ Low CH



B66 / 10MHz / 16QAM/ Low CH



B66 / 10MHz / QPSK/ Mid CH



B66 / 10MHz / 16QAM/ Mid CH



B66 / 10MHz / QPSK/ High CH



B66 / 10MHz / 16QAM/ High CH



B66 / 15MHz / QPSK/ Low CH



B66 / 15MHz / 16QAM/ Low CH



B66 / 15MHz / QPSK/ Mid CH



B66 / 15MHz / 16QAM/ Mid CH



B66 / 15MHz / QPSK/ High CH



B66 / 15MHz / 16QAM/ High CH



B66 / 20MHz / QPSK/ Low CH



B66 / 20MHz / 16QAM/ Low CH



B66 / 20MHz / QPSK/ Mid CH



B66 / 20MHz / 16QAM/ Mid CH



B66 / 20MHz / QPSK/ High CH



B66 / 20MHz / 16QAM/ High CH



B71 / 5MHz / QPSK/ Low CH



B71 / 5MHz / 16QAM/ Low CH



B71 / 5MHz / QPSK/ Mid CH



B71 / 5MHz / 16QAM/ Mid CH



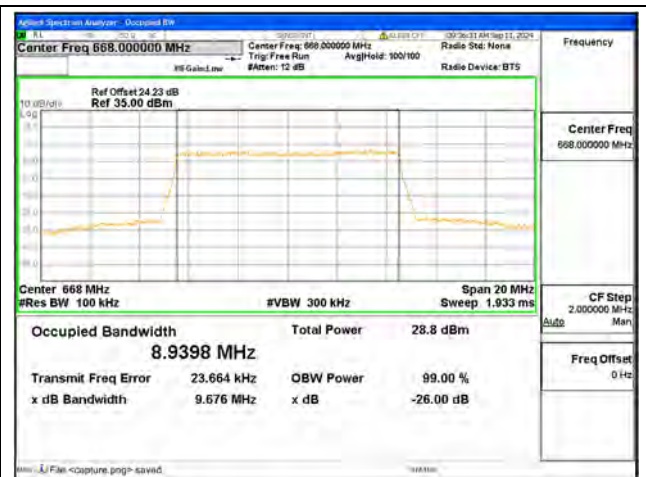
B71 / 5MHz / QPSK/ High CH



B71 / 5MHz / 16QAM/ High CH



B71 / 10MHz / QPSK/ Low CH



B71 / 10MHz / 16QAM/ Low CH



B71 / 10MHz / QPSK/ Mid CH



B71 / 10MHz / 16QAM/ Mid CH



B71 / 10MHz / QPSK/ High CH



B71 / 10MHz / 16QAM/ High CH



B71 / 15MHz / QPSK/ Low CH



B71 / 15MHz / 16QAM/ Low CH



B71 / 15MHz / QPSK/ Mid CH



B71 / 15MHz / 16QAM/ Mid CH



B71 / 15MHz / QPSK/ High CH



B71 / 15MHz / 16QAM/ High CH



B71 / 20MHz / QPSK/ Low CH



B71 / 20MHz / 16QAM/ Low CH



B71 / 20MHz / QPSK/ Mid CH



B71 / 20MHz / 16QAM/ Mid CH



B71 / 20MHz / QPSK/ High CH



B71 / 20MHz / 16QAM/ High CH

2.3. Frequency Stability

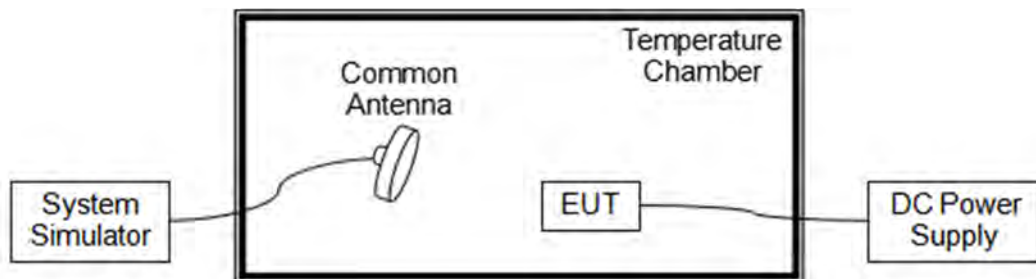
2.3.1. Requirement

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

Note: The operating temperature of EUT is from -10°C to 55°C , which are specified by the applicant.

2.3.2. Test Description



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

2.3.3. Test Procedure

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

**2.3.4. Test Result**

The nominal, highest and lowest extreme voltages are separately 3.80V, 4.35V and 3.50V, 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)	11	0.006	PASS
Normal		-10	19	0.010	
Normal		0	16	0.009	
Normal		+10	-7	-0.004	
Normal		+20	16	0.009	
Normal		+30	6	0.003	
Normal		+40	17	0.009	
Normal		+50	-7	-0.004	
Normal		+55	13	0.007	
High	4.35	+20	17	0.009	
BATT.ENDPOINT	3.50	+20	16	0.009	

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)	10	0.006	PASS
Normal		-10	18	0.010	
Normal		0	-23	-0.013	
Normal		+10	-14	-0.008	
Normal		+20	0	0.000	
Normal		+30	17	0.010	
Normal		+40	-3	-0.002	
Normal		+50	18	0.010	
Normal		+55	16	0.009	
High	4.35	+20	13	0.008	
BATT.ENDPOINT	3.50	+20	16	0.009	



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)	-2	-0.002	PASS
Normal		-10	17	0.020	
Normal		0	15	0.018	
Normal		+10	18	0.022	
Normal		+20	20	0.024	
Normal		+30	17	0.020	
Normal		+40	16	0.019	
Normal		+50	13	0.016	
Normal		+55	-18	-0.022	
High	4.35	+20	-21	-0.025	
BATT.ENDPOINT	3.50	+20	3	0.004	

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)	17	0.024	PASS
Normal		-10	-4	-0.006	
Normal		0	20	0.028	
Normal		+10	-2	-0.003	
Normal		+20	16	0.023	
Normal		+30	-15	-0.021	
Normal		+40	12	0.017	
Normal		+50	17	0.024	
Normal		+55	17	0.024	
High	4.35	+20	15	0.021	
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)	17	0.024	PASS
Normal		-10	19	0.027	
Normal		0	18	0.025	
Normal		+10	-22	-0.031	
Normal		+20	-6	-0.008	
Normal		+30	19	0.027	
Normal		+40	15	0.021	
Normal		+50	-21	-0.030	
Normal		+55	-5	-0.007	
High	4.35	+20	13	0.018	
BATT.ENDPOINT	3.50	+20	18	0.025	

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)	19	0.011	PASS
Normal		-10	-1	-0.001	
Normal		0	17	0.010	
Normal		+10	18	0.010	
Normal		+20	-17	-0.010	
Normal		+30	6	0.003	
Normal		+40	17	0.010	
Normal		+50	-3	-0.002	
Normal		+55	17	0.010	
High	4.35	+20	20	0.011	
BATT.ENDPOINT	3.50	+20	19	0.011	



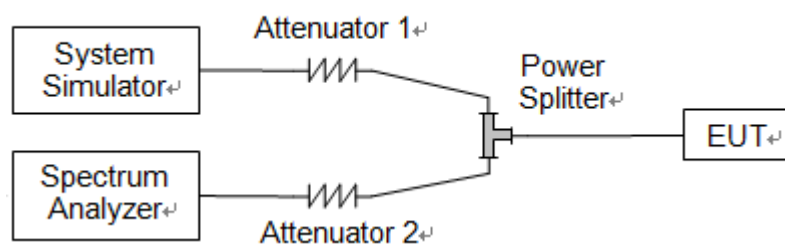
LTE Band 71, 64QAM, Channel 133322, Frequency 683.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.80	+20(Ref)	-19	-0.028	PASS
Normal		-10	1	0.001	
Normal		0	16	0.023	
Normal		+10	-13	-0.019	
Normal		+20	-5	-0.007	
Normal		+30	17	0.025	
Normal		+40	-3	-0.004	
Normal		+50	15	0.022	
Normal		+55	-20	-0.029	
High	4.35	+20	14	0.020	
BATT.ENDPOINT	3.50	+20	18	0.026	

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	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	Peak to Average Radio(dB)	Verdict
B2	1.4	Low	18607	1850.7	QPSK	5.59	PASS
B2	1.4	Low	18607	1850.7	16QAM	4.96	PASS
B2	1.4	Mid	18900	1880	QPSK	5.15	PASS
B2	1.4	Mid	18900	1880	16QAM	4.02	PASS
B2	1.4	High	19193	1909.3	QPSK	5.25	PASS
B2	1.4	High	19193	1909.3	16QAM	4.22	PASS
B2	3	Low	18615	1851.5	QPSK	5.80	PASS
B2	3	Low	18615	1851.5	16QAM	4.95	PASS
B2	3	Mid	18900	1880	QPSK	5.29	PASS
B2	3	Mid	18900	1880	16QAM	4.04	PASS
B2	3	High	19185	1908.5	QPSK	5.48	PASS
B2	3	High	19185	1908.5	16QAM	4.32	PASS
B2	5	Low	18625	1852.5	QPSK	5.79	PASS
B2	5	Low	18625	1852.5	16QAM	5.12	PASS
B2	5	Mid	18900	1880	QPSK	5.52	PASS
B2	5	Mid	18900	1880	16QAM	4.44	PASS
B2	5	High	19175	1907.5	QPSK	5.66	PASS
B2	5	High	19175	1907.5	16QAM	4.91	PASS
B2	10	Low	18650	1855	QPSK	5.87	PASS
B2	10	Low	18650	1855	16QAM	5.35	PASS
B2	10	Mid	18900	1880	QPSK	5.49	PASS
B2	10	Mid	18900	1880	16QAM	4.79	PASS
B2	10	High	19150	1905	QPSK	5.74	PASS
B2	10	High	19150	1905	16QAM	5.25	PASS
B2	15	Low	18675	1857.5	QPSK	5.75	PASS
B2	15	Low	18675	1857.5	16QAM	5.10	PASS
B2	15	Mid	18900	1880	QPSK	5.28	PASS
B2	15	Mid	18900	1880	16QAM	4.32	PASS
B2	15	High	19125	1902.5	QPSK	5.59	PASS
B2	15	High	19125	1902.5	16QAM	4.76	PASS
B2	20	Low	18700	1860	QPSK	5.73	PASS
B2	20	Low	18700	1860	16QAM	5.36	PASS
B2	20	Mid	18900	1880	QPSK	5.51	PASS
B2	20	Mid	18900	1880	16QAM	4.77	PASS
B2	20	High	19100	1900	QPSK	5.61	PASS