



Test Report No.: W7L-240618W001RF11



# FCC TEST REPORT (PART 96)

Applicant:	Xiaomi Communications Co., Ltd.
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Manufacturer or Supplier:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Product:	Mobile Phone
Brand Name:	Redmi
Model Name:	24094RAD4G
FCC ID:	2AFZZRAD4G
Date of tests:	Jul. 12, 2024 ~ Aug. 05, 2024

The tests have been carried out according to the requirements of the following standard:

**47 CFR FCC Part 96**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

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Date: Aug. 05, 2024

Date: Aug. 05, 2024

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## RELEASE CONTROL RECORD

ISSUE NO.	DESCRIPTION	DATE ISSUED
W7L-240618W001RF11	Original release	Aug. 05, 2024



# 1 SUMMARY OF TEST RESULTS

47 CFR FCC PART 96		
FCC CLAUSE	TEST ITEM	RESULT
2.1046 96.41(b)	Maximum Peak Output Power and Maximum EIRP	Compliance
2.1051 96.41(e)	Conducted Band Edge	Compliance
2.1049	Occupied Bandwidth	Compliance
2.1055	Frequency Stability	Compliance
2.1051 96.41(e)	Conducted Spurious Emissions	Compliance
2.1053 96.41(e)	Radiated Spurious Emissions	Compliance
96.41(g)	Peak-to-Average Power Ratio	Compliance

**Note :**

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The worst-case scenario for all measurements is based on an engineering evaluation made on different modulations. Then, QPSK and 16QAM were observed as the worst mode to LTE bands respectively and set for all conducted and radiated. Output power measurements were measured on QPSK, 16QAM, and 64QAM modulations, and tests other than output power are performed only in worse-case QPSK and 16QAM modulations.
3. For Band Edge and ACLR: All BW combinations were tested. Combination pairs of the same BW are considered generally equivalent. The RB combinations were selected such that the signal is active closest to the band limit, as this is the worst case.
4. For Out of Band Emissions: All combination was tested. The highest power RB combination was selected as worst case.



## 1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
Maximum Peak Output Power	±2.06dB
Frequency Stability	±76.97Hz
Radiated emissions (9KHz~30MHz)	±2.68dB
Radiated emissions (30MHz~1GHz)	±4.98dB
Radiated emissions (1GHz ~6GHz)	±4.70dB
Radiated emissions (6GHz ~18GHz)	±4.60dB
Radiated emissions (18GHz ~40GHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Band Edge Measurements	±4.70dB
Peak to average ratio	±0.76dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

## 1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 28,24	Mar. 27,25
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.10,24	May.09,25
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.03,23	Sep.02,24
Bilog Antenna	ETS-LINDGRE N	3143B	00161965	Feb. 18,24	Feb. 17,25
Horn Antenna	ETS-LINDGRE N	3117	00168692	Feb. 18,24	Feb. 17,25
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K- SG/QMS-00361	15433	Sep.04, 23	Sep.03, 24
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 14,24	Feb. 13,25
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 06,24	May. 05,25
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.10,24	May.09,25
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 17,24	Feb.16,25
3m Semi-anechoic Chamber	ETS-LINDGRE N	9m*6m*6m	Euroshieldpn- CT0001143-121 6	Nov. 14,23	Nov. 13,26
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120	3.1.36	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	50HF-010-SMA	May. 06,24	May. 05,25
Power Meter	Anritsu	ML2495A	1506002	Feb. 14,24	Feb. 13,25
Power Sensor	Anritsu	MA2411B	1339352	Feb. 14,24	Feb. 13,25
Temperature Chamber	ESPEC	SH-242	93000855	May. 06,24	May. 05,25
MXG Analog Microvave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 14,24	Feb. 13,25
Base station R&S CMW500	Rohde&Schwa rz	CMW500	153085	May.10,24	May.09,25
DC Source	Kikusui/JP	PMX18-5A	N/A	Aug. 11,23	Aug. 10,24

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
  2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
  3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
  4. The FCC Site Registration No. is 525120; The Designation No. is CN1171.



## 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	Mobile Phone	
<b>BRAND NAME</b>	Redmi	
<b>MODEL NAME</b>	24094RAD4G	
<b>NOMINAL VOLTAGE</b>	5/5~11Vdc(adapter or host equipment) 3.91Vdc (Li-ion, battery)	
<b>MODULATION TECHNOLOGY</b>	<b>LTE</b>	QPSK, 16QAM, 64QAM
<b>FREQUENCY RANGE</b>	<b>LTE Band 42 Channel Bandwidth: 5MHz</b>	3552.5 MHz ~ 3597.5MHz
	<b>LTE Band 42 Channel Bandwidth: 10MHz</b>	3555MHz ~ 3595MHz
	<b>LTE Band 42 Channel Bandwidth: 15MHz</b>	3557.5MHz ~ 3592.5MHz
	<b>LTE Band 42 Channel Bandwidth: 20MHz</b>	3560MHz ~ 3590MHz
	<b>LTE Band 48 Channel Bandwidth: 5MHz</b>	3552.5MHz ~ 3697.5MHz
	<b>LTE Band 48 Channel Bandwidth: 10MHz</b>	3555MHz ~ 3695MHz
	<b>LTE Band 48 Channel Bandwidth: 15MHz</b>	3557.5MHz ~ 3692.5MHz
	<b>LTE Band 48 Channel Bandwidth: 20MHz</b>	3560MHz ~ 3690MHz
<b>EMISSION DESIGNATOR</b>	<b>LTE Band 48 Channel Bandwidth: 5MHz</b>	QPSK: 4M52G7D 16QAM: 4M49W7D
	<b>LTE Band 48 Channel Bandwidth: 10MHz</b>	QPSK: 8M99G7D 16QAM: 8M97W7D
	<b>LTE Band 48 Channel Bandwidth: 15MHz</b>	QPSK: 13M5G7D 16QAM: 13M5W7D
	<b>LTE Band 48 Channel Bandwidth: 20MHz</b>	QPSK: 18M0G7D 16QAM: 18M0W7D
<b>MAX. EIRP POWER</b>	<b>LTE Band 42 Channel Bandwidth: 5MHz</b>	246.04mW
	<b>LTE Band 42 Channel Bandwidth: 10MHz</b>	245.47mW
	<b>LTE Band 42 Channel Bandwidth: 15MHz</b>	246.6mW
	<b>LTE Band 42 Channel Bandwidth: 20MHz</b>	254.1mW
	<b>LTE Band 48 Channel Bandwidth: 5MHz</b>	229.61mW





	<b>LTE Band 48 Channel Bandwidth: 10MHz</b>	230.67mW
	<b>LTE Band 48 Channel Bandwidth: 15MHz</b>	231.74mW
	<b>LTE Band 48 Channel Bandwidth: 20MHz</b>	233.88mW
<b>ANTENNA GAIN</b>	ANT 2(UP): PIFA Antenna with -2dBi gain for LTE B42 PIFA Antenna with -2dBi gain for LTE B48 ANT 3(UP): PIFA Antenna with -2.1dBi gain for LTE B42 PIFA Antenna with -5.7dBi gain for LTE B48 ANT 5(UP): PIFA Antenna with -0.2dBi gain for LTE B42 PIFA Antenna with -0.2dBi gain for LTE B48 ANT 7(UP): PIFA Antenna with -0.1dBi gain for LTE B42 PIFA Antenna with -0.1dBi gain for LTE B48	
<b>HW Version</b>	13510017P	
<b>SW Version</b>	Xiaomi HyperOS 1.0	
<b>IMEI</b>	861781070039865	
<b>I/O PORTS</b>	Refer to user's manual	
<b>DATA CABLE</b>	USB cable1: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable2: non-shielded cable, with w/o ferrite core, 1.0 meter	
<b>EXTREME TEMPERATURE</b>	0-40 °C	
<b>EXTREME VOLTAGE</b>	3.7V - 4.3V	

**NOTE:**

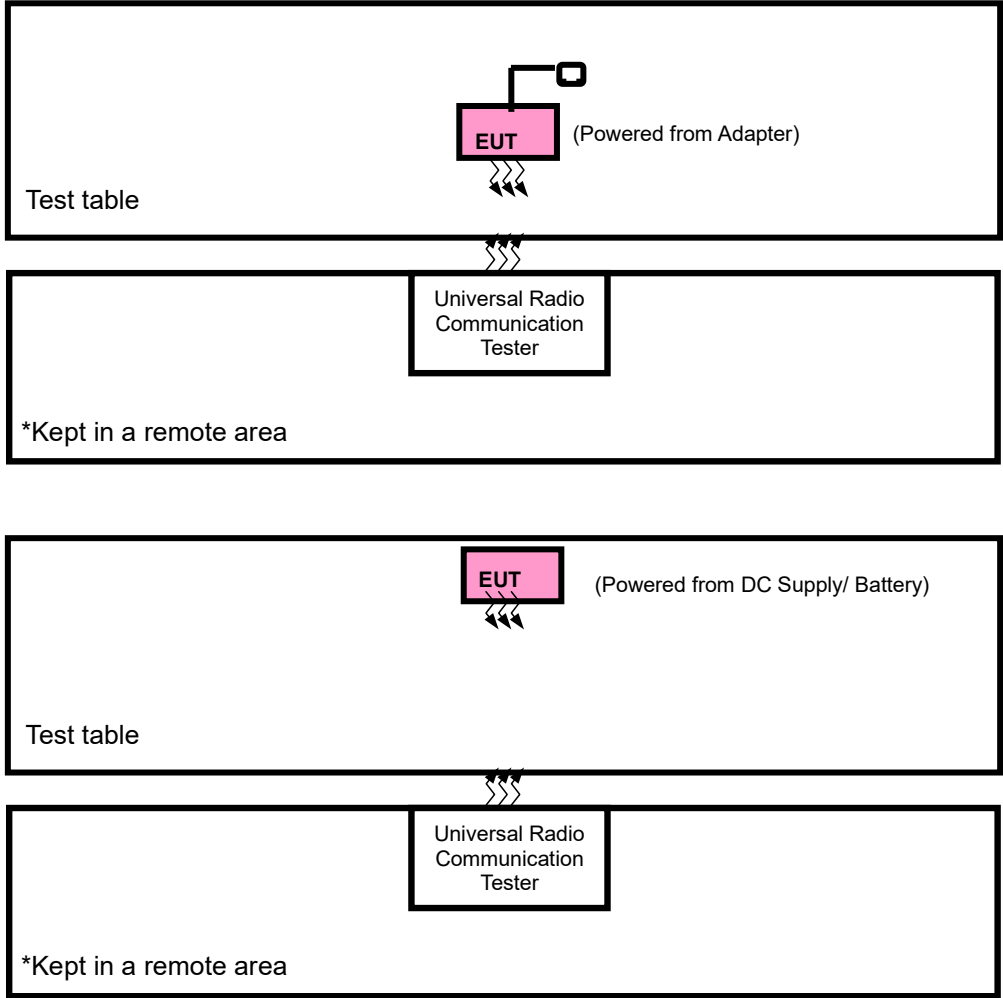
1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. Physically, the EUT provides two completed transmitter and two receiver.

<b>MODULATION MODE</b>	<b>TX FUNCTION</b>
<b>LTE</b>	<b>SISO 2TX</b>

3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
4. Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.



## 2.2 CONFIGURATION OF SYSTEM UNDER TEST FOR RADIATION EMISSION TEST





### 2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC source	LONG WEI	PS-6403D	010934269	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.8m

### 2.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on Y-plane for EIRP and X-axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter with LTE link
B	EUT + DC Supply with LTE link



LTE band 42

EUT CONFIGUR E MODE	TEST ITEM	AVAILABL E CHANNEL	TESTED CHANNEL	CHANNEL BANDWID TH	MODULATION	MODE
A	EIRP	43115 to 43565	43115 (3552.5MHz), 43340 (3575.0MHz), 43565 (3597.5MHz)	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		43140 to 43540	43140 (3555.0MHz), 43340 (3575.0MHz), 43540 (3595.0MHz)	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		43165 to 43515	43165 (3557.50MHz), 43340 (3575.0MHz), 43515 (3592.5MHz)	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		43190 to 43490	43190 (3560.0MHz), 43340 (3575.0MHz), 43490 (3590.0MHz)	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset

**Note:** 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. LTE Band 42 are covered by LTE Band 48, Because it is a subset of LTE Band 48 with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to LTE Band 48



**LTE BAND 48 MODE**

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE		
A	EIRP	55265 to 56715	55265, 55990, 56715	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset		
		55290 to 56690	55290, 55990, 56690	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0RB Offset		
		55315 to 56665	55315, 55990, 56665	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset		
		55340 to 56640	55340, 55990, 56640	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset		
B	FREQUENCY STABILITY	55290 to 56690	55290, 55990, 56690	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset		
A	OCCUPIED BANDWIDTH	55265 to 56715	55265, 55990, 56715	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset		
		55290 to 56690	55290, 55990, 56690	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset		
		55315 to 56665	55315, 55990, 56665	15MHz	QPSK, 16QAM	75 RB / 0 RB Offset		
		55340 to 56640	55340, 55990, 56640	20MHz	QPSK, 16QAM	100 RB / 0 RB Offset		
A	PEAK TO AVERAGE RATIO	55340 to 56640	55340, 55990, 56640	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset 100 RB / 0 RB Offset		
A	BAND EDGE	55265 to 56715	55265	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset		
			56715	5MHz	QPSK, 16QAM	1 RB / 24 RB Offset 25 RB / 0 RB Offset		
		55290 to 56690	55290	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset		
			56690	10MHz	QPSK, 16QAM	1 RB / 49 RB Offset 50 RB / 0 RB Offset		
		55315 to 56665	55315	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset 75 RB / 0 RB Offset		
			56665	15MHz	QPSK, 16QAM	1 RB / 74 RB Offset 75 RB / 0 RB Offset		
		55340 to 56640	55340	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset 100 RB / 0 RB Offset		
			56640	20MHz	QPSK, 16QAM	1 RB / 99 RB Offset 100 RB / 0 RB Offset		
		A	CONDUCTED EMISSION	55265 to 56715	55265, 55990, 56715	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
				55290 to 56690	55290, 55990, 56690	10MHz	QPSK, 16QAM	1 RB / 0RB Offset
				55315 to 56665	55315, 55990, 56665	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset



		55340 to 56640	55340, 55990, 56640	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
<b>A</b>	RADIATED EMISSION	55265 to 56715	55990	5MHz	QPSK	1 RB / 0 RB Offset
		55290 to 56690	55990	10MHz	QPSK	1 RB / 0RB Offset
		55315 to 56665	55990	15MHz	QPSK	1 RB / 0 RB Offset
		55340 to 56640	55340, 55990, 56640	20MHz	QPSK	1 RB / 0 RB Offset
<b>A</b>	ACLR	55265 to 56715	55265	5MHz	QPSK	1 RB / 0 RB Offset 25 RB / 0 RB Offset
			56715	5MHz	QPSK	1 RB / 24 RB Offset 25 RB / 0 RB Offset
		55290 to 56690	55290	10MHz	QPSK	1 RB / 0 RB Offset 50 RB / 0 RB Offset
			56690	10MHz	QPSK	1 RB / 49 RB Offset 50 RB / 0 RB Offset
		55315 to 56665	55315	15MHz	QPSK	1 RB / 0 RB Offset 75 RB / 0 RB Offset
			56665	15MHz	QPSK	1 RB / 74 RB Offset 75 RB / 0 RB Offset
		55340 to 56640	55340	20MHz	QPSK	1 RB / 0 RB Offset 100 RB / 0 RB Offset
			56640	20MHz	QPSK	1 RB / 99 RB Offset 100 RB / 0 RB Offset

**Note:** This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.



**TEST CONDITION:**

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP&EIRP	23deg. C, 70%RH	DC 5/5~11V By Adapter	Jace Hu
FREQUENCY STABILITY	23deg. C, 70%RH	DC 3.7/3.91/4.3 By DC Source	James Fu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC 5/5~11V By Adapter	James Fu
BAND EDGE	23deg. C, 70%RH	DC 5/5~11V By Adapter	James Fu
CONDUCTED EMISSION	23deg. C, 70%RH	DC 5/5~11V By Adapter	James Fu
RADIATED EMISSION	23deg. C, 70%RH	DC 5/5~11V By Adapter	Jace Hu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC 5/5~11V By Adapter	James Fu



## 2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC 47 CFR Part 2**

**FCC 47 CFR Part 96**

**KDB 971168 D02 Power Meas License Digital Systems v02r02**

**ANSI/TIA/EIA-603-E 2016**

**ANSI 63.26-2015**

**NOTE:** All test items have been performed and recorded as per the above standards.





### 3 TEST TYPES AND RESULTS

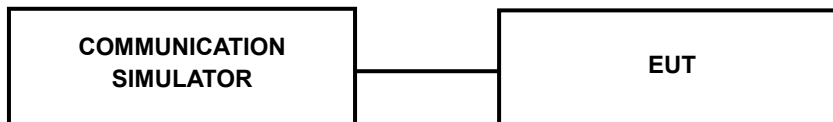
#### 3.1 MAXIMUM EIRP MEASUREMENT

##### 3.1.1 LIMITS OF MAXIMUM EIRP MEASUREMENT

Device	Maximum EIRP (dBm/10 MHz)
End User Device	23
Category A CBSD	30
Category B CBSD	47

##### 3.1.2 TEST SETUP

###### CONDUCTED POWER MEASUREMENT:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 3.1.3 TEST PROCEDURES

#### EIRP MEASUREMENT:

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_{\text{T}} - L_{\text{C}}$$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively  
(expressed in the same units as  $P_{\text{Meas}}$ , typically dBW or dBm);

$P_{\text{Meas}}$  = measured transmitter output power or PSD, in dBm or dBW;

$G_{\text{T}}$  = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

$L_{\text{C}}$  = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

#### CONDUCTED POWER MEASUREMENT:

- a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

### 3.1.4 DEVIATION FROM TEST STANDARD

No deviation.



3.1.5 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

ANT 2(UP):

LTE band 42:

Band/BW	Modulation	RB Size	RB Offset	Low CH (43115)	Mid CH (43340)	High CH (43565)
				Frequency (3552.5)MHz	Frequency (3575)MHz	Frequency (3597.5)MHz
42/ 5	QPSK	1	0	20.84	20.78	20.64
		1	12	20.86	20.91	20.76
		1	24	20.75	20.67	20.58
		12	0	19.93	19.97	19.71
		12	6	19.96	19.95	19.68
		12	13	20.00	19.78	19.70
		25	0	19.89	19.82	19.74
	16QAM	1	0	20.01	20.04	19.77
		1	12	19.90	19.92	19.87
		1	24	19.95	19.75	19.72
		12	0	18.84	18.94	18.73
		12	6	18.94	18.84	18.87
		12	13	18.92	18.80	18.73
		25	0	18.99	18.88	18.73
	64QAM	1	0	18.57	18.46	18.32
		1	12	18.57	18.54	18.33
		1	24	18.39	18.20	18.35
		12	0	17.91	17.97	17.68
		12	6	17.81	17.90	17.60
		12	13	17.93	17.78	17.62
		25	0	17.90	17.78	17.66



Band/BW	Modulation	RB Size	RB Offset	Low CH (43140)	Mid CH (43340)	High CH (43540)
				Frequency (3555)MHz	Frequency (3575)MHz	Frequency (3595)MHz
42/ 10	QPSK	1	0	20.95	20.76	20.73
		1	24	20.97	20.89	20.72
		1	49	20.77	20.64	20.61
		25	0	20.00	19.98	19.68
		25	12	19.93	19.83	19.70
		25	25	19.89	19.74	19.69
		50	0	19.87	19.90	19.67
	16QAM	1	0	19.93	19.93	19.82
		1	24	19.93	19.88	19.81
		1	49	19.86	19.85	19.63
		25	0	18.79	18.90	18.69
		25	12	18.81	18.88	18.75
		25	25	18.91	18.84	18.73
		50	0	18.92	18.87	18.72
	64QAM	1	0	18.58	18.51	18.32
		1	24	18.58	18.56	18.38
		1	49	18.51	18.16	18.39
		25	0	17.93	17.86	17.70
		25	12	17.79	17.81	17.71
		25	25	17.85	17.80	17.58
		50	0	17.81	17.81	17.76



Band/BW	Modulation	RB Size	RB Offset	Low CH (43165)	Mid CH (43340)	High CH (43515)
				Frequency (3557.5)MHz	Frequency (3575)MHz	Frequency (3592.5)MHz
42/ 15	QPSK	1	0	20.87	20.72	20.64
		1	37	20.83	20.79	20.79
		1	74	20.87	20.60	20.49
		36	0	19.98	19.93	19.69
		36	19	19.98	19.91	19.74
		36	39	19.95	19.78	19.65
		75	0	19.84	19.82	19.69
	16QAM	1	0	19.96	19.95	19.84
		1	37	19.97	19.89	19.91
		1	74	19.98	19.85	19.69
		36	0	18.81	18.94	18.69
		36	19	18.84	18.90	18.79
		36	39	19.02	18.84	18.62
		75	0	18.95	18.93	18.70
	64QAM	1	0	18.50	18.43	18.41
		1	37	18.52	18.49	18.39
		1	74	18.40	18.26	18.39
		36	0	17.92	17.90	17.72
		36	19	17.87	17.93	17.59
		36	39	17.82	17.85	17.63
		75	0	17.94	17.80	17.71



Band/BW	Modulation	RB Size	RB Offset	Low CH (43190)	Mid CH (43340)	High CH (43490)
				Frequency (3560)MHz	Frequency (3575)MHz	Frequency (3590)MHz
42/ 20	QPSK	1	0	20.96	20.87	20.77
		1	50	<b>20.98</b>	20.93	20.82
		1	99	20.88	20.74	20.62
		50	0	20.02	19.99	19.82
		50	25	20.00	19.98	19.81
		50	50	20.01	19.88	19.72
		100	0	19.93	19.91	19.77
	16QAM	1	0	20.03	20.05	19.90
		1	50	19.98	19.95	19.96
		1	99	20.00	19.86	19.74
		50	0	18.94	18.96	18.79
		50	25	18.95	18.94	18.88
		50	50	19.05	18.91	18.76
		100	0	19.01	18.94	18.81
	64QAM	1	0	18.60	18.52	18.47
		1	50	18.59	18.59	18.41
		1	99	18.52	18.27	18.41
		50	0	17.94	17.98	17.82
		50	25	17.93	17.94	17.73
		50	50	17.95	17.87	17.73
		100	0	17.96	17.89	17.80



LTE band 48:

Band/BW	Modulation	RB Size	RB Offset	Low CH (55265)	Mid CH (55990)	High CH (56715)
				Frequency (3552.5)MHz	Frequency (3625.0)MHz	Frequency (3697.5)MHz
48/ 5	QPSK	1	0	20.89	20.56	20.21
		1	12	20.88	20.51	20.39
		1	24	20.81	20.41	20.16
		12	0	19.91	19.56	19.41
		12	6	19.89	19.67	19.39
		12	13	19.89	19.66	19.28
		25	0	19.93	19.50	19.22
	16QAM	1	0	19.92	19.68	19.25
		1	12	19.91	19.73	19.21
		1	24	19.86	19.57	19.20
		12	0	18.83	18.54	18.42
		12	6	18.80	18.51	18.40
		12	13	18.88	18.64	18.23
		25	0	18.81	18.61	18.38
	64QAM	1	0	18.41	18.26	18.41
		1	12	18.68	18.30	18.24
		1	24	18.51	18.17	18.11
		12	0	17.95	17.55	17.34
		12	6	17.87	17.58	17.28
		12	13	17.83	17.45	17.23
		25	0	17.86	17.53	17.19



Band/BW	Modulation	RB Size	RB Offset	Low CH (55290)	Mid CH (55990)	High CH (56690)
				Frequency (3555)MHz	Frequency (3625.0)MHz	Frequency (3695)MHz
48/ 10	QPSK	1	0	20.80	20.78	20.31
		1	24	20.85	20.84	20.27
		1	49	20.81	20.86	20.09
		25	0	19.90	19.85	19.36
		25	12	19.84	19.92	19.51
		25	25	19.81	19.82	19.32
		50	0	19.87	19.81	19.29
	16QAM	1	0	19.88	19.98	19.34
		1	24	19.98	19.95	19.34
		1	49	19.88	19.86	19.19
		25	0	18.95	18.90	18.51
		25	12	18.85	18.84	18.34
		25	25	18.87	18.86	18.32
		50	0	18.82	18.83	18.30
	64QAM	1	0	18.46	18.55	18.46
		1	24	18.59	18.60	18.23
		1	49	18.45	18.48	18.14
		25	0	17.94	17.97	17.43
		25	12	18.00	17.87	17.34
		25	25	17.85	17.73	17.21
		50	0	17.86	17.94	17.19





Band/BW	Modulation	RB Size	RB Offset	Low CH (55315)	Mid CH (55990)	High CH (56665)
				Frequency (3557.5)MHz	Frequency (3625.0)MHz	Frequency (3692.5)MHz
48/ 15	QPSK	1	0	20.77	20.57	20.23
		1	37	20.87	20.63	20.30
		1	74	20.86	20.39	20.22
		36	0	19.93	19.48	19.35
		36	19	19.96	19.69	19.47
		36	39	19.89	19.59	19.31
		75	0	19.89	19.51	19.19
	16QAM	1	0	20.02	19.68	19.33
		1	37	19.90	19.68	19.24
		1	74	19.80	19.62	19.25
		36	0	18.94	18.56	18.42
		36	19	18.80	18.51	18.37
		36	39	18.88	18.70	18.27
		75	0	18.89	18.59	18.32
	64QAM	1	0	18.52	18.31	18.37
		1	37	18.66	18.25	18.26
		1	74	18.39	18.17	18.06
		36	0	17.96	17.65	17.36
		36	19	17.95	17.60	17.31
		36	39	17.83	17.45	17.24
		75	0	17.93	17.49	17.16



Band/BW	Modulation	RB Size	RB Offset	Low CH (55340)	Mid CH (55990)	High CH (56640)
				Frequency (3560)MHz	Frequency (3625.0)MHz	Frequency (3690)MHz
48/ 20	QPSK	1	0	20.91	20.77	20.35
		1	50	<b>20.95</b>	20.87	20.42
		1	99	20.89	20.74	20.23
		50	0	19.94	19.89	19.43
		50	25	19.98	19.90	19.53
		50	50	19.91	19.87	19.40
		100	0	19.95	19.91	19.33
	16QAM	1	0	20.03	19.93	19.37
		1	50	20.00	19.94	19.36
		1	99	19.91	19.87	19.27
		50	0	18.98	18.88	18.53
		50	25	18.95	18.85	18.48
		50	50	18.99	18.94	18.37
		100	0	18.90	18.89	18.43
	64QAM	1	0	18.56	18.53	18.49
		1	50	18.69	18.59	18.37
		1	99	18.53	18.38	18.20
		50	0	17.99	17.85	17.47
		50	25	18.02	17.94	17.40
		50	50	17.86	17.77	17.29
		100	0	17.98	17.96	17.29



**ANT 3(UP):**

LTE band 42:

Band/BW	Modulation	RB Size	RB Offset	Low CH (43115)	Mid CH (43340)	High CH (43565)
				Frequency (3552.5)MHz	Frequency (3575)MHz	Frequency (3597.5)MHz
42/ 5	QPSK	1	0	18.20	18.25	18.21
		1	12	18.34	18.29	18.35
		1	24	18.13	18.10	18.35
		12	0	17.47	17.23	17.18
		12	6	17.27	17.24	17.33
		12	13	17.22	17.34	17.19
		25	0	17.31	17.32	17.33
	16QAM	1	0	17.20	17.29	17.24
		1	12	17.38	17.28	17.34
		1	24	17.16	17.27	17.29
		12	0	16.32	16.29	16.15
		12	6	16.46	16.21	16.15
		12	13	16.34	16.22	16.33
		25	0	16.42	16.32	16.44
	64QAM	1	0	16.25	16.20	16.10
		1	12	16.26	16.34	16.33
		1	24	16.20	16.32	16.29
		12	0	15.32	15.25	15.14
		12	6	15.25	15.30	15.21
		12	13	15.24	15.11	15.20
		25	0	15.32	15.21	15.34



Band/BW	Modulation	RB Size	RB Offset	Low CH (43140)	Mid CH (43340)	High CH (43540)
				Frequency (3555)MHz	Frequency (3575)MHz	Frequency (3595)MHz
42/ 10	QPSK	1	0	18.23	18.36	18.24
		1	24	18.40	18.33	18.29
		1	49	18.16	18.14	18.33
		25	0	17.40	17.35	17.20
		25	12	17.38	17.28	17.21
		25	25	17.23	17.34	17.15
		50	0	17.43	17.28	17.33
	16QAM	1	0	17.27	17.31	17.24
		1	24	17.44	17.26	17.39
		1	49	17.24	17.32	17.35
		25	0	16.31	16.31	16.25
		25	12	16.36	16.30	16.25
		25	25	16.28	16.31	16.38
		50	0	16.31	16.34	16.34
	64QAM	1	0	16.25	16.21	16.10
		1	24	16.19	16.36	16.28
		1	49	16.27	16.37	16.16
		25	0	15.29	15.19	15.20
		25	12	15.22	15.29	15.18
		25	25	15.27	15.19	15.14
		50	0	15.32	15.30	15.28



Band/BW	Modulation	RB Size	RB Offset	Low CH (43165)	Mid CH (43340)	High CH (43515)
				Frequency (3557.5)MHz	Frequency (3575)MHz	Frequency (3592.5)MHz
42/ 15	QPSK	1	0	18.34	18.36	18.18
		1	37	18.33	18.23	18.34
		1	74	18.18	18.16	18.35
		36	0	17.48	17.34	17.28
		36	19	17.26	17.19	17.34
		36	39	17.22	17.30	17.23
		75	0	17.32	17.33	17.32
	16QAM	1	0	17.33	17.29	17.19
		1	37	17.40	17.38	17.42
		1	74	17.16	17.27	17.34
		36	0	16.29	16.29	16.24
		36	19	16.45	16.32	16.20
		36	39	16.37	16.30	16.30
		75	0	16.38	16.36	16.36
	64QAM	1	0	16.21	16.28	16.08
		1	37	16.26	16.25	16.21
		1	74	16.19	16.26	16.23
		36	0	15.32	15.15	15.16
		36	19	15.36	15.30	15.30
		36	39	15.35	15.10	15.18
		75	0	15.36	15.24	15.24



Band/BW	Modulation	RB Size	RB Offset	Low CH (43190)	Mid CH (43340)	High CH (43490)
				Frequency (3560)MHz	Frequency (3575)MHz	Frequency (3590)MHz
42/ 20	QPSK	1	0	18.35	18.39	18.25
		1	50	<b>18.46</b>	18.38	18.40
		1	99	18.23	18.23	18.38
		50	0	17.49	17.38	17.33
		50	25	17.41	17.29	17.36
		50	50	17.34	17.37	17.28
		100	0	17.45	17.34	17.37
	16QAM	1	0	17.35	17.42	17.28
		1	50	17.49	17.41	17.43
		1	99	17.29	17.39	17.39
		50	0	16.42	16.41	16.28
		50	25	16.48	16.35	16.27
		50	50	16.42	16.32	16.42
		100	0	16.46	16.37	16.46
	64QAM	1	0	16.35	16.32	16.22
		1	50	16.30	16.38	16.36
		1	99	16.30	16.39	16.31
		50	0	15.42	15.29	15.21
		50	25	15.37	15.35	15.32
		50	50	15.36	15.23	15.26
		100	0	15.40	15.33	15.35



LTE band 48:

Band/BW	Modulation	RB Size	RB Offset	Low CH (55265)	Mid CH (55990)	High CH (56715)
				Frequency (3552.5)MHz	Frequency (3625.0)MHz	Frequency (3697.5)MHz
48/ 5	QPSK	1	0	18.14	18.24	18.16
		1	12	18.23	18.27	18.43
		1	24	18.24	18.21	18.41
		12	0	17.07	17.16	17.22
		12	6	17.19	17.34	17.34
		12	13	17.18	17.19	17.37
		25	0	17.18	17.32	17.23
	16QAM	1	0	17.11	17.09	17.22
		1	12	17.31	17.39	17.44
		1	24	17.15	17.26	17.37
		12	0	16.27	16.35	16.23
		12	6	16.20	16.24	16.43
		12	13	16.17	16.38	16.45
		25	0	16.17	16.28	16.25
	64QAM	1	0	16.14	16.15	16.19
		1	12	16.27	16.39	16.38
		1	24	16.19	16.27	16.32
		12	0	15.22	15.22	15.06
		12	6	15.22	15.16	15.17
		12	13	15.10	15.35	15.26
		25	0	15.11	15.25	15.19



Band/BW	Modulation	RB Size	RB Offset	Low CH (55290)	Mid CH (55990)	High CH (56690)
				Frequency (3555)MHz	Frequency (3625.0)MHz	Frequency (3695)MHz
48/ 10	QPSK	1	0	18.13	18.10	18.13
		1	24	18.31	18.35	18.42
		1	49	18.12	18.32	18.31
		25	0	17.11	17.13	17.15
		25	12	17.20	17.39	17.38
		25	25	17.27	17.27	17.35
		50	0	17.15	17.17	17.16
	16QAM	1	0	17.17	17.14	17.15
		1	24	17.24	17.36	17.44
		1	49	17.04	17.39	17.37
		25	0	16.30	16.28	16.30
		25	12	16.21	16.42	16.42
		25	25	16.26	16.42	16.42
		50	0	16.03	16.15	16.19
	64QAM	1	0	16.14	16.22	16.16
		1	24	16.18	16.40	16.28
		1	49	16.14	16.27	16.26
		25	0	15.15	15.15	15.19
		25	12	15.26	15.21	15.19
		25	25	15.14	15.31	15.25
		50	0	15.20	15.28	15.19





Band/BW	Modulation	RB Size	RB Offset	Low CH (55315)	Mid CH (55990)	High CH (56665)
				Frequency (3557.5)MHz	Frequency (3625.0)MHz	Frequency (3692.5)MHz
48/ 15	QPSK	1	0	18.12	18.34	18.10
		1	37	18.26	18.47	18.42
		1	74	18.21	18.33	18.34
		36	0	17.06	17.42	17.14
		36	19	17.25	17.44	17.41
		36	39	17.23	17.30	17.26
		75	0	17.21	17.37	17.21
	16QAM	1	0	17.21	17.31	17.22
		1	37	17.31	17.42	17.44
		1	74	17.17	17.29	17.43
		36	0	16.26	16.38	16.28
		36	19	16.25	16.48	16.34
		36	39	16.26	16.31	16.40
		75	0	16.04	16.44	16.26
	64QAM	1	0	16.18	16.37	16.15
		1	37	16.29	16.42	16.28
		1	74	16.16	16.34	16.38
		36	0	15.26	15.30	15.14
		36	19	15.31	15.41	15.17
		36	39	15.14	15.43	15.32
		75	0	15.17	15.26	15.21



Band/BW	Modulation	RB Size	RB Offset	Low CH (55340)	Mid CH (55990)	High CH (56640)
				Frequency (3560)MHz	Frequency (3625.0)MHz	Frequency (3690)MHz
48/ 20	QPSK	1	0	18.22	18.28	18.23
		1	50	18.33	<b>18.51</b>	18.47
		1	99	18.27	18.31	18.44
		50	0	17.20	17.31	17.23
		50	25	17.33	17.35	17.44
		50	50	17.28	17.33	17.41
		100	0	17.25	17.42	17.29
	16QAM	1	0	17.22	17.32	17.26
		1	50	17.33	17.42	17.48
		1	99	17.19	17.37	17.47
		50	0	16.34	16.30	16.32
		50	25	16.26	16.37	16.45
		50	50	16.31	16.34	16.51
		100	0	16.18	16.46	16.30
	64QAM	1	0	16.19	16.26	16.23
		1	50	16.32	16.37	16.43
		1	99	16.20	16.30	16.41
		50	0	15.30	15.39	15.21
		50	25	15.32	15.40	15.29
		50	50	15.23	15.47	15.34
		100	0	15.22	15.26	15.32



ANT 5(UP):

LTE band 42:

Band/BW	Modulation	RB Size	RB Offset	Low CH (43115)	Mid CH (43340)	High CH (43565)
				Frequency (3552.5)MHz	Frequency (3575)MHz	Frequency (3597.5)MHz
42/ 5	QPSK	1	0	22.34	22.21	22.38
		1	12	22.29	22.40	22.41
		1	24	22.18	22.26	22.23
		12	0	21.42	21.50	21.50
		12	6	21.43	21.45	21.49
		12	13	21.30	21.19	21.40
		25	0	21.33	21.29	21.41
	16QAM	1	0	21.37	21.43	21.43
		1	12	21.36	21.36	21.35
		1	24	21.29	21.35	21.53
		12	0	20.17	20.37	20.14
		12	6	20.38	20.27	20.32
		12	13	20.33	20.19	20.17
		25	0	20.35	20.24	20.34
	64QAM	1	0	20.04	20.26	20.24
		1	12	20.16	20.06	20.07
		1	24	20.10	20.26	20.35
		12	0	19.87	19.23	19.14
		12	6	19.37	19.39	19.35
		12	13	19.35	19.36	19.28
		25	0	19.31	19.25	19.34



Band/BW	Modulation	RB Size	RB Offset	Low CH (43140)	Mid CH (43340)	High CH (43540)
				Frequency (3555)MHz	Frequency (3575)MHz	Frequency (3595)MHz
42/ 10	QPSK	1	0	22.35	22.24	22.36
		1	24	22.20	22.31	22.40
		1	49	22.24	22.26	22.26
		25	0	21.39	21.48	21.54
		25	12	21.44	21.37	21.37
		25	25	21.22	21.31	21.47
		50	0	21.43	21.40	21.34
	16QAM	1	0	21.34	21.53	21.38
		1	24	21.35	21.29	21.33
		1	49	21.29	21.25	21.58
		25	0	20.17	20.43	20.17
		25	12	20.30	20.28	20.32
		25	25	20.43	20.30	20.20
		50	0	20.31	20.29	20.36
	64QAM	1	0	20.10	20.15	20.28
		1	24	20.28	20.07	20.17
		1	49	20.04	20.23	20.43
		25	0	19.84	19.15	19.20
		25	12	19.29	19.35	19.32
		25	25	19.21	19.29	19.26
		50	0	19.42	19.29	19.36



Band/BW	Modulation	RB Size	RB Offset	Low CH (43165)	Mid CH (43340)	High CH (43515)
				Frequency (3557.5)MHz	Frequency (3575)MHz	Frequency (3592.5)MHz
42/ 15	QPSK	1	0	22.28	22.19	22.42
		1	37	22.28	22.33	22.39
		1	74	22.19	22.35	22.19
		36	0	21.37	21.43	21.56
		36	19	21.48	21.44	21.41
		36	39	21.30	21.20	21.43
		75	0	21.40	21.41	21.37
	16QAM	1	0	21.46	21.46	21.44
		1	37	21.36	21.37	21.24
		1	74	21.40	21.36	21.46
		36	0	20.23	20.32	20.23
		36	19	20.27	20.20	20.45
		36	39	20.42	20.29	20.18
		75	0	20.38	20.19	20.30
	64QAM	1	0	20.08	20.15	20.22
		1	37	20.25	20.13	20.19
		1	74	20.10	20.28	20.44
		36	0	19.85	19.19	19.19
		36	19	19.36	19.34	19.33
		36	39	19.34	19.36	19.27
		75	0	19.35	19.24	19.37



Band/BW	Modulation	RB Size	RB Offset	Low CH (43190)	Mid CH (43340)	High CH (43490)
				Frequency (3560)MHz	Frequency (3575)MHz	Frequency (3590)MHz
42/ 20	QPSK	1	0	22.39	22.34	22.46
		1	50	22.33	22.44	<b>22.55</b>
		1	99	22.29	22.39	22.32
		50	0	21.52	21.51	21.60
		50	25	21.52	21.49	21.52
		50	50	21.37	21.34	21.49
		100	0	21.44	21.44	21.46
	16QAM	1	0	21.48	21.54	21.45
		1	50	21.47	21.43	21.37
		1	99	21.41	21.37	21.60
		50	0	20.30	20.46	20.25
		50	25	20.39	20.31	20.46
		50	50	20.45	20.34	20.31
		100	0	20.40	20.31	20.37
	64QAM	1	0	20.16	20.30	20.30
		1	50	20.31	20.19	20.22
		1	99	20.11	20.31	20.46
		50	0	19.93	19.24	19.27
		50	25	19.44	19.46	19.39
		50	50	19.36	19.40	19.34
		100	0	19.46	19.39	19.43



LTE band 48:

Band/BW	Modulation	RB Size	RB Offset	Low CH (55265)	Mid CH (55990)	High CH (56715)
				Frequency (3552.5)MHz	Frequency (3625.0)MHz	Frequency (3697.5)MHz
48/ 5	QPSK	1	0	22.31	22.41	22.17
		1	12	22.34	22.27	22.30
		1	24	22.28	22.24	22.22
		12	0	21.48	21.47	21.38
		12	6	21.39	21.21	21.18
		12	13	21.47	21.25	21.26
		25	0	21.30	21.35	21.38
	16QAM	1	0	21.36	21.12	21.15
		1	12	21.17	21.29	21.13
		1	24	21.36	21.19	21.32
		12	0	20.51	20.53	20.33
		12	6	20.34	20.12	20.18
		12	13	20.40	20.30	20.15
		25	0	20.17	20.36	20.15
	64QAM	1	0	20.32	20.49	20.12
		1	12	20.24	20.43	20.26
		1	24	20.29	20.32	20.11
		12	0	19.19	19.30	19.31
		12	6	19.25	19.17	19.38
		12	13	19.45	19.43	19.13
		25	0	19.18	19.28	19.34



Band/BW	Modulation	RB Size	RB Offset	Low CH (55290)	Mid CH (55990)	High CH (56690)
				Frequency (3555)MHz	Frequency (3625.0)MHz	Frequency (3695)MHz
48/ 10	QPSK	1	0	22.28	22.15	22.26
		1	24	22.42	22.43	22.39
		1	49	22.23	22.34	22.23
		25	0	21.41	21.31	21.38
		25	12	21.29	21.27	21.25
		25	25	21.47	21.36	21.13
		50	0	21.33	21.15	21.28
	16QAM	1	0	21.32	21.55	21.18
		1	24	21.25	21.42	21.11
		1	49	21.32	21.18	21.38
		25	0	20.53	20.18	20.26
		25	12	20.32	20.23	20.17
		25	25	20.42	20.29	20.16
		50	0	20.17	20.25	20.13
	64QAM	1	0	20.39	20.29	20.13
		1	24	20.14	20.31	20.32
		1	49	20.28	20.37	20.12
		25	0	19.16	19.51	19.28
		25	12	19.13	19.29	19.34
		25	25	19.34	19.38	19.19
		50	0	19.14	19.27	19.25





Band/BW	Modulation	RB Size	RB Offset	Low CH (55315)	Mid CH (55990)	High CH (56665)
				Frequency (3557.5)MHz	Frequency (3625.0)MHz	Frequency (3692.5)MHz
48/ 15	QPSK	1	0	22.38	22.25	22.23
		1	37	22.45	22.40	22.36
		1	74	22.34	22.32	22.25
		36	0	21.41	21.30	21.41
		36	19	21.42	21.25	21.13
		36	39	21.41	21.39	21.19
		75	0	21.38	21.26	21.25
	16QAM	1	0	21.34	21.49	21.25
		1	37	21.24	21.52	21.23
		1	74	21.33	21.23	21.36
		36	0	20.52	20.14	20.34
		36	19	20.27	20.33	20.15
		36	39	20.42	20.39	20.05
		75	0	20.09	20.15	20.23
	64QAM	1	0	20.37	20.34	20.19
		1	37	20.17	20.31	20.22
		1	74	20.22	20.37	20.23
		36	0	19.19	19.52	19.35
		36	19	19.13	19.26	19.36
		36	39	19.41	19.35	19.22
		75	0	19.16	19.30	19.28



Band/BW	Modulation	RB Size	RB Offset	Low CH (55340)	Mid CH (55990)	High CH (56640)
				Frequency (3560)MHz	Frequency (3625.0)MHz	Frequency (3690)MHz
48/ 20	QPSK	1	0	22.40	22.39	22.30
		1	50	<b>22.49</b>	22.23	22.41
		1	99	22.38	22.27	22.28
		50	0	21.53	21.47	21.42
		50	25	21.43	21.21	21.28
		50	50	21.51	21.26	21.28
		100	0	21.42	21.37	21.39
	16QAM	1	0	21.42	21.18	21.29
		1	50	21.31	21.29	21.26
		1	99	21.43	21.25	21.39
		50	0	20.54	20.46	20.36
		50	25	20.38	20.17	20.29
		50	50	20.47	20.30	20.19
		100	0	20.23	20.40	20.24
	64QAM	1	0	20.40	20.46	20.20
		1	50	20.29	20.46	20.33
		1	99	20.31	20.29	20.24
		50	0	19.31	19.34	19.41
		50	25	19.28	19.13	19.43
		50	50	19.46	19.41	19.28
		100	0	19.25	19.24	19.35



ANT 7(UP):

LTE band 42:

Band/BW	Modulation	RB Size	RB Offset	Low CH (43115)	Mid CH (43340)	High CH (43565)
				Frequency (3552.5)MHz	Frequency (3575)MHz	Frequency (3597.5)MHz
42/ 5	QPSK	1	0	20.99	20.92	20.81
		1	12	20.85	20.95	20.64
		1	24	20.81	20.71	20.64
		12	0	19.93	19.82	19.74
		12	6	19.96	19.85	19.73
		12	13	20.05	19.84	19.73
		25	0	19.96	19.80	19.77
	16QAM	1	0	19.99	19.91	19.77
		1	12	20.09	19.95	19.87
		1	24	19.98	19.72	19.84
		12	0	18.95	18.96	18.69
		12	6	19.01	18.84	18.80
		12	13	18.99	18.83	18.75
		25	0	18.84	18.77	18.68
	64QAM	1	0	18.81	18.88	18.65
		1	12	18.92	18.75	18.70
		1	24	18.80	18.60	18.60
		12	0	17.97	17.79	17.66
		12	6	18.04	17.78	17.67
		12	13	17.90	17.80	17.66
		25	0	17.96	17.72	17.76



Band/BW	Modulation	RB Size	RB Offset	Low CH (43140)	Mid CH (43340)	High CH (43540)
				Frequency (3555)MHz	Frequency (3575)MHz	Frequency (3595)MHz
42/ 10	QPSK	1	0	20.97	20.93	20.85
		1	24	20.94	20.92	20.64
		1	49	20.85	20.69	20.57
		25	0	19.95	19.89	19.72
		25	12	19.99	19.92	19.79
		25	25	20.08	19.84	19.80
		50	0	19.92	19.83	19.79
	16QAM	1	0	20.03	19.96	19.88
		1	24	20.14	19.88	19.87
		1	49	20.03	19.77	19.86
		25	0	18.99	18.84	18.68
		25	12	18.95	18.91	18.85
		25	25	18.96	18.74	18.65
		50	0	18.92	18.76	18.78
	64QAM	1	0	18.92	18.94	18.73
		1	24	18.91	18.86	18.66
		1	49	18.82	18.57	18.67
		25	0	18.00	17.75	17.74
		25	12	17.93	17.72	17.67
		25	25	17.83	17.70	17.68
		50	0	17.96	17.75	17.75



Band/BW	Modulation	RB Size	RB Offset	Low CH (43165)	Mid CH (43340)	High CH (43515)
				Frequency (3557.5)MHz	Frequency (3575)MHz	Frequency (3592.5)MHz
42/ 15	QPSK	1	0	21.10	21.01	20.87
		1	37	20.83	20.98	20.69
		1	74	20.79	20.74	20.67
		36	0	19.95	19.87	19.70
		36	19	20.06	19.97	19.75
		36	39	20.03	19.86	19.72
		75	0	19.90	19.81	19.81
	16QAM	1	0	19.97	19.96	19.83
		1	37	20.04	19.94	19.88
		1	74	20.00	19.81	19.72
		36	0	19.02	18.93	18.75
		36	19	18.96	18.89	18.74
		36	39	18.99	18.83	18.72
		75	0	18.87	18.75	18.77
	64QAM	1	0	18.81	19.00	18.62
		1	37	18.92	18.87	18.74
		1	74	18.83	18.55	18.68
		36	0	17.98	17.88	17.64
		36	19	17.95	17.77	17.72
		36	39	17.88	17.70	17.66
		75	0	17.90	17.73	17.84



Band/BW	Modulation	RB Size	RB Offset	Low CH (43190)	Mid CH (43340)	High CH (43490)
				Frequency (3560)MHz	Frequency (3575)MHz	Frequency (3590)MHz
42/ 20	QPSK	1	0	<b>21.11</b>	21.02	20.89
		1	50	20.97	21.00	20.79
		1	99	20.93	20.78	20.69
		50	0	20.00	19.92	19.84
		50	25	20.10	19.98	19.87
		50	50	20.09	19.87	19.82
		100	0	20.01	19.92	19.89
	16QAM	1	0	20.11	20.06	19.90
		1	50	20.16	19.98	19.91
		1	99	20.07	19.85	19.87
		50	0	19.07	18.99	18.82
		50	25	19.04	18.96	18.88
		50	50	19.06	18.88	18.79
		100	0	18.99	18.90	18.81
	64QAM	1	0	18.94	19.02	18.75
		1	50	18.96	18.88	18.77
		1	99	18.84	18.65	18.73
		50	0	18.07	17.89	17.79
		50	25	18.05	17.86	17.75
		50	50	17.96	17.82	17.81
		100	0	18.05	17.87	17.87



LTE band 48:

Band/BW	Modulation	RB Size	RB Offset	Low CH (55265)	Mid CH (55990)	High CH (56715)
				Frequency (3552.5)MHz	Frequency (3625.0)MHz	Frequency (3697.5)MHz
48/ 5	QPSK	1	0	20.73	20.81	20.68
		1	12	20.85	20.78	20.86
		1	24	20.82	20.75	20.66
		12	0	19.96	19.81	19.84
		12	6	20.02	19.94	19.98
		12	13	19.86	20.05	19.76
		25	0	19.88	19.86	19.86
	16QAM	1	0	19.96	19.78	19.81
		1	12	19.93	19.82	19.79
		1	24	19.77	19.72	19.74
		12	0	18.92	18.83	18.83
		12	6	18.97	18.89	18.92
		12	13	18.91	19.00	18.77
		25	0	18.88	18.80	18.88
	64QAM	1	0	18.91	18.71	18.66
		1	12	18.87	18.86	18.77
		1	24	18.70	18.87	18.62
		12	0	17.94	17.82	17.81
		12	6	17.82	17.79	17.82
		12	13	17.86	17.83	17.84
		25	0	17.80	17.97	17.79



Band/BW	Modulation	RB Size	RB Offset	Low CH (55290)	Mid CH (55990)	High CH (56690)
				Frequency (3555)MHz	Frequency (3625.0)MHz	Frequency (3695)MHz
48/ 10	QPSK	1	0	20.81	20.74	20.68
		1	24	20.93	20.82	20.79
		1	49	20.83	20.66	20.66
		25	0	19.98	19.87	19.81
		25	12	20.06	19.92	19.95
		25	25	19.89	19.75	19.76
		50	0	19.91	19.87	19.79
	16QAM	1	0	20.03	19.73	19.83
		1	24	20.04	19.80	19.89
		1	49	19.85	19.73	19.63
		25	0	18.99	18.80	18.74
		25	12	18.98	18.80	18.81
		25	25	18.78	18.74	18.79
		50	0	18.92	18.80	18.82
	64QAM	1	0	18.79	18.61	18.59
		1	24	18.88	18.71	18.79
		1	49	18.75	18.61	18.69
		25	0	17.92	17.79	17.80
		25	12	17.79	17.90	17.88
		25	25	17.97	17.79	17.81
		50	0	17.86	17.88	17.79





Band/BW	Modulation	RB Size	RB Offset	Low CH (55315)	Mid CH (55990)	High CH (56665)
				Frequency (3557.5)MHz	Frequency (3625.0)MHz	Frequency (3692.5)MHz
48/ 15	QPSK	1	0	20.74	20.69	20.74
		1	37	20.86	20.83	20.81
		1	74	20.79	20.65	20.58
		36	0	19.94	19.63	19.89
		36	19	19.99	19.72	19.90
		36	39	19.96	19.68	19.77
		75	0	19.93	19.66	19.92
	16QAM	1	0	20.01	19.57	19.70
		1	37	19.94	19.82	19.87
		1	74	19.77	19.71	19.74
		36	0	18.87	18.71	18.74
		36	19	18.85	18.76	18.90
		36	39	18.88	18.87	18.84
		75	0	18.92	18.60	18.80
	64QAM	1	0	18.81	18.61	18.61
		1	37	18.88	18.71	18.78
		1	74	18.82	18.69	18.65
		36	0	17.98	17.61	17.81
		36	19	17.93	17.76	17.89
		36	39	17.94	17.72	17.79
		75	0	17.79	17.60	17.81



Band/BW	Modulation	RB Size	RB Offset	Low CH (55340)	Mid CH (55990)	High CH (56640)
				Frequency (3560)MHz	Frequency (3625.0)MHz	Frequency (3690)MHz
48/ 20	QPSK	1	0	20.88	20.63	20.83
		1	50	<b>20.99</b>	20.79	20.88
		1	99	20.85	20.72	20.71
		50	0	20.07	19.71	19.91
		50	25	20.07	19.78	20.00
		50	50	19.98	19.75	19.85
		100	0	19.99	19.66	19.94
	16QAM	1	0	20.05	19.65	19.84
		1	50	20.08	19.77	19.94
		1	99	19.92	19.67	19.77
		50	0	19.00	18.74	18.86
		50	25	18.99	18.68	18.93
		50	50	18.93	18.76	18.87
		100	0	18.94	18.70	18.94
	64QAM	1	0	18.92	18.59	18.74
		1	50	18.92	18.74	18.83
		1	99	18.83	18.64	18.70
		50	0	18.00	17.56	17.91
		50	25	17.94	17.75	17.94
		50	50	18.00	17.61	17.87
		100	0	17.94	17.68	17.89