

TEST REPORT FOR SAR TESTING

Report No.: SRTC2020-9004(F)-20101501(H)

Product Name: LTE/WCDMA/GSM(GPRS) Multi-Mode Digital Mobile Phone

Product Model: ZTE A2121L

Applicant: ZTE CORPORATION

Manufacturer: ZTE CORPORATION

Specification: Part 2.1093

IEEE Std 1528

KDB Procedures

FCC ID: SRQ-ZTEA2121L

The State Radio_monitoring_center Testing Center (SRTC)

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Contents

1. GENERAL INFORMATION	2
1.1 NOTES OF THE TEST REPORT.....	2
1.2 INFORMATION ABOUT THE TESTING LABORATORY.....	2
1.3 APPLICANT'S DETAILS	2
1.4 MANUFACTURER'S DETAILS	2
1.5 TEST ENVIRONMENT	3
2. DESCRIPTION OF THE DEVICE UNDER TEST.....	4
2.1 FINAL EQUIPMENT BUILD STATUS	4
2.2 SUPPORT EQUIPMENT.....	5
3. REFERENCE SPECIFICATION.....	6
4. TEST CONDITIONS.....	7
4.1 PICTURE TO DEMONSTRATE THE REQUIRED LIQUID DEPTH	7
4.2 TEST SIGNAL, FREQUENCIES AND OUTPUT POWER.....	7
4.3 SAR MEASUREMENT SET-UP.....	7
4.4 PHANTOMS	8
4.5 TISSUE SIMULANTS	8
4.6 DESCRIPTION OF THE TEST PROCEDURE	9
5 RESULT SUMMAR	11
6 TEST RESULT	13
6.1 MANUFACTURING TOLERANCE.....	13
6.2 GSM MEASUREMENT RESULT.....	33
6.3 WCDMA MEASUREMENT RESULT	36
6.4 LTE MEASUREMENT RESULT	46
6.5 BLUETOOTH MEASUREMENT RESULT	162
6.6 WI-FI MEASUREMENT RESULT	162
6.7 STANDALONE SAR TEST EXCLUSION CONSIDERATIONS	164
6.8 RF EXPOSURE CONDITIONS	166
6.9 SYSTEM CHECKING.....	170
6.10 SAR TEST RESULT	171
6.11 SAR MEASUREMENT VARIABILITY	197
6.12 SIMULTANEOUS TRANSMISSION SAR ANALYSIS	198
7 MEASUREMENT UNCERTAINTY	199
8 TEST EQUIPMENTS	201
ANNEX A – TEST PLOTS	209

1. GENERAL INFORMATION

1.1 Notes of the test report

The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written permission of The State Radio_monitoring_center Testing Center (SRTC).

The test results relate only to individual items of the samples which have been tested.

The certification and accreditation identifiers used in this report shall not be applicable to the tested or calibrated samples thereof. The manufacturer shall not mark the tested samples or items (or a separate part of the item) with the identifiers of certification and accreditation to mislead relevant parties about the tested samples or items.

1.2 Information about the testing laboratory

Company:	The State Radio_monitoring_center Testing Center (SRTC)
Address:	15th Building, No.30 Shixing Street, Shijingshan District, Beijing P.R. China
City:	Beijing
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1.3 Applicant's details

Company:	ZTE CORPORATION
Address:	Electronic Testing Building, No. 43 Shahe Road, Xili street, Nanshan District
City:	Shenzhen
Country or Region:	Guangdong, China
Contacted person:	Ren Shijia
Tel:	13709193069
Email:	---
	ren.shijia@zte.com.cn

1.4 Manufacturer's details

Company:	ZTE CORPORATION
Address:	Electronic Testing Building, No. 43 Shahe Road, Xili street, Nanshan District
City:	Shenzhen
Country or Region:	Guangdong, China
Contacted person:	Ren Shijia
Tel:	13709193069
Email:	---
	ren.shijia@zte.com.cn

1.5 Test Environment

Date of Receipt of test sample at SRTC:	2020.10.15
Testing Start Date:	2020.10.15
Testing End Date:	2020.11.10

Environmental Data:	Temperature (°C)	Humidity (%)
Ambient	20	40

Normal Supply Voltage (Vdc.):	3.80
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2. DESCRIPTION OF THE DEVICE UNDER TEST

2.1 Final Equipment Build Status

Wireless Technology and Frequency Bands	☒ GSM Band: GSM850/GSM1900 ☒ WCDMA Band: FDD II/IV/V ☒ LTE Band: 2/4/5/7(CA_7C)/12/17/26/66 ☒ Wi-Fi Band: 2.4GHz/5GHz (UNII-1)/5GHz (UNII-3) ☒ BT/BLE
Mode	GSM ☒ GPRS (GMSK) ☒ EGPRS (GMSK/8PSK) WCDMA ☒ UMTS Rel. 99 ☒ HSDPA (Rel. 5) ☒ HSUPA (Rel. 6) ☒ HSPA+ (Rel.7) ☒ DC-HSDPA (Rel.8) LTE ☒ QPSK ☒ 16QAM ☒ 64QAM Wi-Fi ☒ 802.11a ☒ 802.11b ☒ 802.11g ☒ 802.11n HT20 ☒ 802.11n HT40 ☒ 802.11ac VHT20 ☒ 802.11ac VHT40 ☒ 802.11ac VHT80 BT ☒ GFSK ☒ $\pi/4$ DQPSK ☒ 8DPSK BLE ☒ GFSK(1Mbps) ☒ GFSK(2Mbps)
Duty Cycle*	GPRS: 12.5% (1 Slot), 25% (2 Slots), 37.5% (3 Slots), 50% (4 Slots) EDGE(GMSK/8PSK) 12.5% (1 Slot), 25% (2 Slots), 37.5% (3 Slots), 50% (4 Slots) WCDMA: 100% LTE(FDD): 100% BT: DH5:77.55% 2DH5:77.28% 3DH5:77.34% BLE: 1M:87.30% 2M:65.84% WIFI2.4GHz: 11b:98.65% 11g:90.86% 11n20:89.46% 11n40:80.50% WIFI5GHz: 11a:90.86% 11n20:89.46% 11n40:80.50% 11ac20:89.50% 11ac40:80.60% 11ac80:66.12%
Multi-Slot Class for GPRS/EDGE	☐ Class 8 - One Up ☐ Class 10 - Two Up ☒ Class 12 - Four Up ☐ Class 33- Four Up

Mobile Phone Capability	☐ Class A - Mobile phones can be connected to both GPRS and GSM services simultaneously. ☒ Class B - Mobile phones can be attached to both GPRS and GSM services, using one service at a time. ☐ Class C - Mobile phones are attached to either GPRS or GSM voice service. You need to switch manually between services
DTM	Not Supported
Note	For licensed cellular network duty cycle is inherent. For unlicensed network WLAN Duty cycle is depending on the data traffic, and the traffic allocation in operating mode could be the most conservative condition which with 100% duty cycle. SAR measurement also use non signalling mode, so the duty factor shall be taken into consideration.

2.2 Support Equipment

The following support equipment was used to exercise the DUT during testing:

State of sample	Normal
H/W Version	zd1B
S/W Version	TEL_MX_ZTE_A2121LV1.0
IMEI	IMEI1:868933050002776 IMEI2:868933050002693
Notes	N/A

3. REFERENCE SPECIFICATION

Specification	Version	Title
Part 2.1093	2019	Radiofrequency radiation exposure evaluation: portable devices.
IEEE Std 1528	2013	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 447498 D01	v06	General RF Exposure Guidance
KDB 447498 D02	v02r01	SAR MEASUREMENT PROCEDURES FOR USB DONGLE TRANSMITTERS
KDB 648474 D04	v01r03	Handset SAR
KDB 941225 D01	v03r01	3G SAR Procedures
KDB 248227 D01	v02r02	SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS
KDB 865664 D01	v01r04	SAR Measurement from 100 MHz to 6 GHz
KDB 865664 D02	v01r02	RF Exposure Reporting
KDB 941225 D05	v02r05	SAR for LTE Devices

4. TEST CONDITIONS

4.1 Picture to demonstrate the required liquid depth

The liquid depth is large than 15cm in the used SAM phantoms in flat section, and the depth of the tissue simulant was 15.0 ± 0.5 cm measured from the ear reference point during system checking and device measurements.



Liquid depth for SAR Measurement

4.2 Test Signal, Frequencies and Output Power

The device was put into operation by using a call tester. Communication between the device and the call tester was established by air link.

The device output power was set to maximum power level for all tests; a fully charged battery was used for every test sequence.

In all operating bands the measurements were performed on middle channel, and few of them were also performed on lowest and highest channels.

4.3 SAR Measurement Set-up

The system is based on a high precision robot (working range greater than 0.9m), which positions the probes with a positional repeatability of better than ± 0.02 mm. Special E-field probes have been developed for measurements close to material discontinuity, the sensors of which are directly loaded with a Schottky diode and connected via highly resistive lines (length =300mm) to the data acquisition unit. A cell controller system contains the power supply, robot controller, teaches pendant (Joystick), and remote control, is used to drive the robot motors.

The PC consists of the Micron Pentium IV computer with Win7 system and SAR Measurement Software DASY5 Professional, A/D interface card, monitor, mouse, and keyboard. The Stäubli Robot is connected to the cell controller to allow software manipulation of the robot.

A data acquisition electronic (DAE) circuit performs the signal amplification; signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card. The DAE consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines.

The mechanical probe mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection

The robot uses its own controller with a built in VME-bus computer.

4.4 Phantoms

The phantom used for all tests i.e. for both system checks and device testing, was the twin headed "SAM Phantom", manufactured by SPEAG. The phantom conforms to the requirements of IEEE 1528.

System checking was performed using the flat section, whilst Head SAR tests used the left and right head profile sections. Body SAR testing also used the flat section between the head profiles.

The SPEAG device holder was used to position the device in all tests whilst a tripod was used to position the validation dipoles against the flat section of phantom.

4.5 Tissue Simulants

Recommended values for the dielectric parameters of the tissue simulants are given in IEEE 1528. All tests were carried out using simulants whose dielectric parameters were within $\pm 10\%$ below 3GHz and $\pm 5\%$ above 3GHz of the recommended values when use DASY system according to KDB865664D01. All tests were carried out within 24 hours of measuring the dielectric parameters.

Tissue Stimulant Recipes	
Name	Broadband tissue-equivalent liquid
Type	HBBL600-6000V6 Simulating Liquid
Note: The stimulant could be the same for head and body.	

4.6 DESCRIPTION OF THE TEST PROCEDURE

4.6.1 Device Holder

The device was placed in the device holder (illustrated below) that is supplied by SPEAG as an integral part of the Dasy system.



Device holder supplied by SPEAG

4.6.2 Test Exposure Conditions

4.6.2.1 Head Configuration

Measurements were made in “cheek” and “tilt” positions on both the left hand and right-hand sides of the phantom.

The positions used in the measurements were according to IEEE 1528 "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques".

4.6.2.2 Body Worn Configuration

The device was placed in the SPEAG holder below the flat section of the phantom. The distance between the device and the phantom was kept at the separation distance using a separate flat spacer that was removed before the start of the measurements. And the distance is normally determined according to the actual scene which might be the worst use condition for general exposure. The device's front and rear were oriented facing the phantom since these orientations give higher results for most regular portable devices.

4.6.2.3 Hotspot Configuration

Hotspot mode SAR is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge; for the data modes, wireless technologies and frequency bands supporting hotspot mode.

4.6.3 Scan Procedure

First, area scans were used for determination of the field distribution and the approximate location of the local peak SAR values. The SAR distribution is scanned along the inside surface, at least for an area larger than the projection of the handset and antenna. The angle between the probe axis and the surface normal line is recommended but not required to be less than 30°. The SAR distribution is first measured on a 2-D coarse grid. The scan region should cover all areas that are exposed and encompassed by the projection of the handset. There are 15 mm × 15 mm (equal or less than 2GHz), 12 mm × 12 mm (from 2GHz~4GHz) and 10mm x 10mm (from 4GHz~6GHz) measurement grid used when two staggered one-dimensional cubic splines are used to estimate the maximum SAR location.

When the reported 1g-SAR estimated by area scan is less than 1.40 w/kg.

Zoom scan was performed by using the configuration mentioned below or more conservative scan area and step to determine the averaged SAR value. Drift was determined by measuring the same point at the start of the area scan and again at the end of the zoom scan.

Below 3GHz: 32mmX32mmX30mm scan area with 8 mm X8 mm X5 mm steps

2GHz-3GHz: 32mmX32mmX30mm scan area with 8 mm X8 mm X5 mm steps

3GHz-4GHz: 28mmX28mmX28mm scan area with 7 mm X7 mm X4 mm steps

4GHz-5GHz: 25mmX25mmX24mm scan area with 5 mm X5 mm X3 mm steps

5GHz-6GHz: 25mmX25mmX22mm scan area with 5 mm X5 mm X2 mm steps

4.6.4 SAR Averaging Methods

The maximum SAR value was averaged over a cube of tissue using interpolation and extrapolation.

The interpolation, extrapolation and maximum search routines within DASY5 are all based on the modified Quadratic Shepard's method (Robert J. Renka, Multivariate Interpolation of Large Sets of Scattered Data", University of North Texas ACM Transactions on Mathematical Software, vol. 14, no. 2, June 1988, pp. 139-148).

The interpolation scheme combines a least-square fitted function method with a weighted average method. A triradiate 3-D / bivariate 2-D quadratic function is computed for each measurement point and fitted to neighboring points by a least-square method. For the zoom scan, inverse distance weighting is incorporated to fit distant points more accurately. The interpolating function is finally calculated as a weighted average of the quadratics.

In the zoom scan, the interpolation function is used to extrapolate the Peak SAR from the deepest measurement points to the inner surface of the phantom.

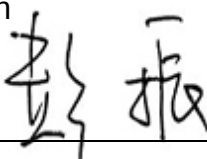
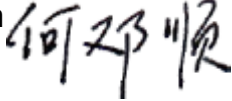
5 RESULT SUMMAR

The maximum reported SAR values for Head/Body-Worn/Hotspot exposure conditions are given as follows. The device conforms to the requirements of the standard(s) when the maximum reported SAR value is less than or equal to the limit.

Standalone Transmission Summary(1g- SAR)						
Exposure Position	Frequency Band	SAR Result(W/kg)	Highest SAR Result(W/kg)		Limit (W/kg)	Result
Head	GSM 850	0.11	0.80			
	GSM 1900	0.80				
	WCDMA Band II	0.56				
	WCDMA Band IV	0.43				
	WCDMA Band V	0.08				
	LTE Band 2	0.59				
	LTE Band 4	0.34				
	LTE Band 5	0.09				
	LTE Band 7	0.66				
	LTE Band 7C	0.67				
	LTE Band 12	0.10				
	LTE Band 17	0.13				
	LTE Band 26	0.12				
	LTE Band 66	0.46				
	BT/BLE	0.07				
	WLAN 2.4GHz	0.36				
	WLAN 5GHz UNII-1	0.45				
	WLAN 5GHz UNII-3	0.17				
Body-Worn (10mm Gap)	GSM 850	0.52	0.90	0.90	1.60	Pass
	GSM 1900	0.30				
	WCDMA Band II	0.84				
	WCDMA Band IV	0.66				
	WCDMA Band V	0.37				
	LTE Band 2	0.49				
	LTE Band 4	0.32				
	LTE Band 5	0.34				
	LTE Band 7	0.90				
	LTE Band 7C	0.48				
	LTE Band 12	0.25				
	LTE Band 17	0.23				
	LTE Band 26	0.30				
	LTE Band 66	0.00				
	BT/BLE	0.04				
	WLAN 2.4GHz	0.25				
	WLAN 5GHz UNII-1	0.15				
	WLAN 5GHz UNII-3	0.03				
Hotspot (10mm Gap)	GSM 850	0.52	0.84			
	GSM 1900	0.30				
	WCDMA Band II	0.84				
	WCDMA Band IV	0.66				

	WCDMA Band V	0.37				
	LTE Band 2	0.49				
	LTE Band 4	0.32				
	LTE Band 5	0.34				
	LTE Band 7	0.48				
	LTE Band 7C	0.48				
	LTE Band 12	0.25				
	LTE Band 17	0.23				
	LTE Band 26	0.30				
	LTE Band 66	0.25				
	BT/BLE	0.04				
	WLAN 2.4GHz	0.25				
	WLAN 5GHz UNII-1	0.15				
	WLAN 5GHz UNII-3	0.04				

Simultaneous Transmission Summary(1g- SAR)						
Exposure Position	Frequency Band	SAR Result(W/kg)	Highest SAR Result(W/kg)	Limit (W/kg)	Result	
Head	WWAN+BT+WLAN	1.08	1.08	1.15	1.60	pass
Body-Worn	WWAN+BT+WLAN	1.15	1.15			
Hotspot	WWAN+BT+WLAN	1.09	1.09			

This Test Report Is Issued by: Mr. Peng Zhen 	Checked by: Mr. Li Bin 
Tested by: Mr. He Dengshun 	Issued date: 20201110

6 TEST RESULT

6.1 Manufacturing Tolerance

GSM

GSM850

Carrier frequency (MHz)	Channel No.	Tolerance (dBm)
824.2	128	29.0~33.0
836.4	189	
848.8	251	

GPRS/EGPRS (GMSK):

Carrier frequency (MHz)	Channel No.	TX Mode	Tolerance (dBm)
824.2	128	4Downlink1uplink	29.0~33.0
836.4	189		
848.8	251		
824.2	128	3Downlink2uplink	27.0~31.0
836.4	189		
848.8	251		
824.2	128	2Downlink3uplink	25.5~29.5
836.4	189		
848.8	251		
824.2	128	1Downlink4uplink	23.0~27.0
836.4	189		
848.8	251		

EGPRS (8PSK):

Carrier frequency (MHz)	Channel No.	TX Mode	Tolerance (dBm)
824.2	128	8PSK 4Downlink1uplink	25.0~29.0
836.4	189		
848.8	251		
824.2	128	8PSK 3Downlink2uplink	22.0~26.0
836.4	189		
848.8	251		
824.2	128	8PSK 2Downlink3uplink	22.0~26.0
836.4	189		
848.8	251		
824.2	128	8PSK 1Downlink4uplink	18.0~24.0
836.4	189		
848.8	251		

PCS1900:

Carrier frequency (MHz)	Channel No.	Tolerance (dBm)
1850.2	512	26.0~30.0
1880.0	661	
1909.8	810	

GPRS/EGPRS (GMSK):

Carrier frequency (MHz)	Channel No.	TX Mode	Tolerance (dBm)
1850.2	512	4Downlink1uplink	26.0~30.0
1880.0	661		
1909.8	810		
1850.2	512	3Downlink2uplink	23.5~27.5
1880.0	661		
1909.8	810		
1850.2	512	2Downlink3uplink	21.5~25.5
1880.0	661		
1909.8	810		
1850.2	512	1Downlink4uplink	19.5~23.5
1880.0	661		
1909.8	810		

EGPRS (8PSK):

Carrier frequency (MHz)	Channel No.	TX Mode	Tolerance (dBm)
1850.2	512	8PSK 4Downlink1uplink	23.0~27.0
1880.0	661		
1909.8	810		
1850.2	512	8PSK 3Downlink2uplink	22.0~26.0
1880.0	661		
1909.8	810		
1850.2	512	8PSK 2Downlink3uplink	21.0~25.0
1880.0	661		
1909.8	810		
1850.2	512	8PSK 1Downlink4uplink	19.0~23.0
1880.0	661		
1909.8	810		

WCDMA

WCDMA band II

Mode		Carrier frequency (MHz)	Channel No.	Tolerance (dBm)
Release 99	RMC,12.2kbps	1852.4	9262	20.0~24.0
		1880.0	9400	
		1907.6	9538	
HSDPA	Subtest 1	1852.4	9262	20.0~24.0
		1880.0	9400	
		1907.6	9538	
	Subtest 2	1852.4	9262	
		1880.0	9400	
		1907.6	9538	
	Subtest 3	1852.4	9262	
		1880.0	9400	
		1907.6	9538	
	Subtest 4	1852.4	9262	
		1880.0	9400	
		1907.6	9538	
HSUPA	Subtest 1	1852.4	9262	20.0~24.0
		1880.0	9400	
		1907.6	9538	
	Subtest 2	1852.4	9262	
		1880.0	9400	
		1907.6	9538	
	Subtest 3	1852.4	9262	
		1880.0	9400	
		1907.6	9538	
	Subtest 4	1852.4	9262	
		1880.0	9400	
		1907.6	9538	
	Subtest 5	1852.4	9262	
		1880.0	9400	
		1907.6	9538	
HSPA+	QPSK	1852.4	9262	20.0~24.0
		1880.0	9400	
		1907.6	9538	
	16QAM	1852.4	9262	
		1880.0	9400	
		1907.6	9538	
DC-HSDPA	Subtest 1	1852.4	9262	20.0~24.0
		1880.0	9400	
		1907.6	9538	
	Subtest 2	1852.4	9262	
		1880.0	9400	
		1907.6	9538	
	Subtest 3	1852.4	9262	
		1880.0	9400	
		1907.6	9538	
	Subtest 4	1852.4	9262	
		1880.0	9400	
		1907.6	9538	

Reduced power with receive on

Mode		Carrier frequency (MHz)	Channel No.	Tolerance (dBm)
Release 99	RMC,12.2kbps	1852.4	9262	16.0~20.0
		1880.0	9400	
		1907.6	9538	
HSDPA	Subtest 1	1852.4	9262	16.0~20.0
		1880.0	9400	
		1907.6	9538	
	Subtest 2	1852.4	9262	
		1880.0	9400	
		1907.6	9538	
	Subtest 3	1852.4	9262	
		1880.0	9400	
		1907.6	9538	
	Subtest 4	1852.4	9262	
		1880.0	9400	
		1907.6	9538	
HSUPA	Subtest 1	1852.4	9262	16.0~20.0
		1880.0	9400	
		1907.6	9538	
	Subtest 2	1852.4	9262	
		1880.0	9400	
		1907.6	9538	
	Subtest 3	1852.4	9262	
		1880.0	9400	
		1907.6	9538	
	Subtest 4	1852.4	9262	
		1880.0	9400	
		1907.6	9538	
	Subtest 5	1852.4	9262	
		1880.0	9400	
		1907.6	9538	
HSPA+	QPSK	1852.4	9262	16.0~20.0
		1880.0	9400	
		1907.6	9538	
	16QAM	1852.4	9262	
		1880.0	9400	
		1907.6	9538	
DC-HSDPA	Subtest 1	1852.4	9262	16.0~20.0
		1880.0	9400	
		1907.6	9538	
	Subtest 2	1852.4	9262	
		1880.0	9400	
		1907.6	9538	
	Subtest 3	1852.4	9262	
		1880.0	9400	
		1907.6	9538	
	Subtest 4	1852.4	9262	
		1880.0	9400	
		1907.6	9538	

WCDMA band IV

Mode		Carrier frequency (MHz)	Channel No.	Tolerance (dBm)
Release 99	RMC,12.2kbps	1712.4	1312	20.0~24.0
		1732.4	1412	
		1752.6	1513	
HSDPA	Subtest 1	1712.4	1312	20.0~24.0
		1732.4	1412	
		1752.6	1513	
	Subtest 2	1712.4	1312	
		1732.4	1412	
		1752.6	1513	
	Subtest 3	1712.4	1312	
		1732.4	1412	
		1752.6	1513	
	Subtest 4	1712.4	1312	
		1732.4	1412	
		1752.6	1513	
HSUPA	Subtest 1	1712.4	1312	20.0~24.0
		1732.4	1412	
		1752.6	1513	
	Subtest 2	1712.4	1312	
		1732.4	1412	
		1752.6	1513	
	Subtest 3	1712.4	1312	
		1732.4	1412	
		1752.6	1513	
	Subtest 4	1712.4	1312	
		1732.4	1412	
		1752.6	1513	
	Subtest 5	1712.4	1312	
		1732.4	1412	
		1752.6	1513	
HSPA+	QPSK	1712.4	1312	20.0~24.0
		1732.4	1412	
		1752.6	1513	
	16QAM	1712.4	1312	
		1732.4	1412	
		1752.6	1513	
DC-HSDPA	Subtest 1	1712.4	1312	20.0~24.0
		1732.4	1412	
		1752.6	1513	
	Subtest 2	1712.4	1312	
		1732.4	1412	
		1752.6	1513	
	Subtest 3	1712.4	1312	
		1732.4	1412	
		1752.6	1513	
	Subtest 4	1712.4	1312	
		1732.4	1412	
		1752.6	1513	

Reduced power with receive on

Mode		Carrier frequency (MHz)	Channel No.	Tolerance (dBm)
Release 99	RMC,12.2kbps	1712.4	1312	16.0~20.0
		1732.4	1412	
		1752.6	1513	
HSDPA	Subtest 1	1712.4	1312	16.0~20.0
		1732.4	1412	
		1752.6	1513	
	Subtest 2	1712.4	1312	
		1732.4	1412	
		1752.6	1513	
	Subtest 3	1712.4	1312	
		1732.4	1412	
		1752.6	1513	
	Subtest 4	1712.4	1312	
		1732.4	1412	
		1752.6	1513	
HSUPA	Subtest 1	1712.4	1312	16.0~20.0
		1732.4	1412	
		1752.6	1513	
	Subtest 2	1712.4	1312	
		1732.4	1412	
		1752.6	1513	
	Subtest 3	1712.4	1312	
		1732.4	1412	
		1752.6	1513	
	Subtest 4	1712.4	1312	
		1732.4	1412	
		1752.6	1513	
	Subtest 5	1712.4	1312	
		1732.4	1412	
		1752.6	1513	
HSPA+	QPSK	1712.4	1312	16.0~20.0
		1732.4	1412	
		1752.6	1513	
	16QAM	1712.4	1312	
		1732.4	1412	
		1752.6	1513	
DC-HSDPA	Subtest 1	1712.4	1312	16.0~20.0
		1732.4	1412	
		1752.6	1513	
	Subtest 2	1712.4	1312	
		1732.4	1412	
		1752.6	1513	
	Subtest 3	1712.4	1312	
		1732.4	1412	
		1752.6	1513	
	Subtest 4	1712.4	1312	
		1732.4	1412	
		1752.6	1513	

WCDMA band V

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
Release 99	RMC,12.2kbps	826.4	4132	20.0~24.0
		836.6	4183	
		846.6	4233	
HSDPA	Subtest 1	826.4	4132	20.0~24.0
		836.6	4183	
		846.6	4233	
	Subtest 2	826.4	4132	
		836.6	4183	
		846.6	4233	
	Subtest 3	826.4	4132	
		836.6	4183	
		846.6	4233	
	Subtest 4	826.4	4132	
		836.6	4183	
		846.6	4233	
HSUPA	Subtest 1	826.4	4132	20.0~24.0
		836.6	4183	
		846.6	4233	
	Subtest 2	826.4	4132	
		836.6	4183	
		846.6	4233	
	Subtest 3	826.4	4132	
		836.6	4183	
		846.6	4233	
	Subtest 4	826.4	4132	
		836.6	4183	
		846.6	4233	
	Subtest 5	826.4	4132	
		836.6	4183	
		846.6	4233	
HSPA+	QPSK	826.4	9262	20.0~24.0
		836.6	9400	
		846.6	9538	
	16QAM	826.4	9262	
		836.6	9400	
		846.6	9538	
DC-HSDPA	Subtest 1	826.4	9262	20.0~24.0
		836.6	9400	
		846.6	9538	
	Subtest 2	826.4	9262	
		836.6	9400	
		846.6	9538	
	Subtest 3	826.4	9262	
		836.6	9400	
		846.6	9538	
	Subtest 4	826.4	9262	
		836.6	9400	
		846.6	9538	

LTE

Note: RB allocation mentioned below is for all Bandwidths, and the Frequency Range are divided to 3 ranges (Low, Mid, High)

Band 2

BW	Modulation	RB allocation with different offset	Frequency range	Tolerance (dBm)
All Bandwidth	QPSK	1	Low	20.5~24.5
			Mid	
			High	
		50%	Low	19.5~23.5
			Mid	
			High	
		100%	Low	19.5~23.5
			Mid	
			High	
	16QAM	1	Low	20.5~24.5
			Mid	
			High	
		50%	Low	19.5~23.5
			Mid	
			High	
		100%	Low	19.5~23.5
			Mid	
			High	
	64QAM	1	Low	20.5~24.5
			Mid	
			High	
		50%	Low	19.5~23.5
			Mid	
			High	
		100%	Low	19.5~23.5
			Mid	
			High	

Reduced power with receive on

BW	Modulation	RB allocation with different offset	Frequency range	Tolerance (dBm)
All Bandwidth	QPSK	1	Low	16.5~20.5
			Mid	
			High	
		50%	Low	15.5~19.5
			Mid	
			High	
		100%	Low	15.5~19.5
			Mid	
			High	
	16QAM	1	Low	16.5~20.5
			Mid	
			High	
		50%	Low	15.5~19.5
			Mid	
			High	
		100%	Low	15.5~19.5
			Mid	
			High	
	64QAM	1	Low	16.5~20.5
			Mid	
			High	
		50%	Low	15.5~19.5
			Mid	
			High	
		100%	Low	15.5~19.5
			Mid	
			High	

Band 4

BW	Modulation	RB allocation with different offset	Frequency range	Tolerance (dBm)
All Bandwidth	QPSK	1	Low	19.5~23.5
			Mid	
			High	
		50%	Low	18.5~22.5
			Mid	
			High	
		100%	Low	18.5~22.5
			Mid	
			High	
	16QAM	1	Low	19.5~23.5
			Mid	
			High	
		50%	Low	18.5~22.5
			Mid	
			High	
		100%	Low	18.5~22.5
			Mid	
			High	
	64QAM	1	Low	19.5~23.5
			Mid	
			High	
		50%	Low	18.5~22.5
			Mid	
			High	
		100%	Low	18.5~22.5
			Mid	
			High	

Reduced power with receive on

BW	Modulation	RB allocation with different offset	Frequency range	Tolerance (dBm)
All Bandwidth	QPSK	1	Low	16.0~20.0
			Mid	
			High	
		50%	Low	14.5~18.5
			Mid	
			High	
		100%	Low	14.5~18.5
			Mid	
			High	
	16QAM	1	Low	16.0~20.0
			Mid	
			High	
		50%	Low	14.5~18.5
			Mid	
			High	
		100%	Low	14.5~18.5
			Mid	
			High	
	64QAM	1	Low	16.0~20.0
			Mid	
			High	
		50%	Low	14.5~18.5
			Mid	
			High	
		100%	Low	14.5~18.5
			Mid	
			High	

Band 5

BW	Modulation	RB allocation with different offset	Frequency range	Tolerance (dBm)
All Bandwidth	QPSK	1	Low	20.0~24.0
			Mid	
			High	
		50%	Low	19.0~23.0
			Mid	
			High	
		100%	Low	19.0~23.0
			Mid	
			High	
	16QAM	1	Low	20.0~24.0
			Mid	
			High	
		50%	Low	19.0~23.0
			Mid	
			High	
		100%	Low	19.0~23.0
			Mid	
			High	
	64QAM	1	Low	20.0~24.0
			Mid	
			High	
		50%	Low	19.0~23.0
			Mid	
			High	
		100%	Low	19.0~23.0
			Mid	
			High	

Band 7

BW	Modulation	RB allocation with different offset	Frequency range	Tolerance (dBm)
All Bandwidth	QPSK	1	Low	19.5~23.5
			Mid	
			High	
		50%	Low	18.5~22.5
			Mid	
			High	
		100%	Low	18.5~22.5
			Mid	
			High	
	16QAM	1	Low	19.5~23.5
			Mid	
			High	
		50%	Low	18.5~22.5
			Mid	
			High	
		100%	Low	18.5~22.5
			Mid	
			High	
	64QAM	1	Low	19.5~23.5
			Mid	
			High	
		50%	Low	18.5~22.5
			Mid	
			High	
		100%	Low	18.5~22.5
			Mid	
			High	

Reduced power with hotspot on or receive on

BW	Modulation	RB allocation with different offset	Frequency range	Tolerance (dBm)
All Bandwidth	QPSK	1	Low	16.5~20.5
			Mid	
			High	
		50%	Low	16.5~20.5
			Mid	
			High	
		100%	Low	16.5~20.5
			Mid	
			High	
	16QAM	1	Low	16.5~20.5
			Mid	
			High	
		50%	Low	16.5~20.5
			Mid	
			High	
		100%	Low	16.5~20.5
			Mid	
			High	
	64QAM	1	Low	16.5~20.5
			Mid	
			High	
		50%	Low	16.5~20.5
			Mid	
			High	
		100%	Low	16.5~20.5
			Mid	
			High	

Band CA_7C

BW	Modulation	RB allocation with different offset	Frequency range	Tolerance (dBm)
All Bandwidth	QPSK	1	Low	15.5~19.5
			Mid	
			High	
		50%	Low	15.5~19.5
			Mid	
			High	
		100%	Low	15.5~19.5
			Mid	
			High	
	16QAM	1	Low	15.5~19.5
			Mid	
			High	
		50%	Low	15.5~19.5
			Mid	
			High	
		100%	Low	15.5~19.5
			Mid	
			High	
	64QAM	1	Low	15.5~19.5
			Mid	
			High	
		50%	Low	15.5~19.5
			Mid	
			High	
		100%	Low	15.5~19.5
			Mid	
			High	

Band 12

BW	Modulation	RB allocation with different offset	Frequency range	Tolerance (dBm)
All Bandwidth	QPSK	1	Low	20.0~24.0
			Mid	
			High	
		50%	Low	19.0~23.0
			Mid	
			High	
		100%	Low	19.0~23.0
			Mid	
			High	
	16QAM	1	Low	20.0~24.0
			Mid	
			High	
		50%	Low	19.0~23.0
			Mid	
			High	
		100%	Low	19.0~23.0
			Mid	
			High	
	64QAM	1	Low	20.0~24.0
			Mid	
			High	
		50%	Low	19.0~23.0
			Mid	
			High	
		100%	Low	19.0~23.0
			Mid	
			High	

Band 17

BW	Modulation	RB allocation with different offset	Frequency range	Tolerance (dBm)
All Bandwidth	QPSK	1	Low	20.0~24.0
			Mid	
			High	
		50%	Low	19.0~23.0
			Mid	
			High	
		100%	Low	19.0~23.0
			Mid	
			High	
	16QAM	1	Low	19.0~23.0
			Mid	
			High	
		50%	Low	19.0~23.0
			Mid	
			High	
		100%	Low	19.0~23.0
			Mid	
			High	
	64QAM	1	Low	19.0~23.0
			Mid	
			High	
		50%	Low	19.0~23.0
			Mid	
			High	
		100%	Low	19.0~23.0
			Mid	
			High	

Band 26

BW	Modulation	RB allocation with different offset	Frequency range	Tolerance (dBm)
All Bandwidth	QPSK	1	Low	20.0~24.0
			Mid	
			High	
		50%	Low	19.0~23.0
			Mid	
			High	
		100%	Low	19.0~23.0
			Mid	
			High	
	16QAM	1	Low	20.0~24.0
			Mid	
			High	
		50%	Low	19.0~23.0
			Mid	
			High	
		100%	Low	19.0~23.0
			Mid	
			High	
	64QAM	1	Low	20.0~24.0
			Mid	
			High	
		50%	Low	19.0~23.0
			Mid	
			High	
		100%	Low	19.0~23.0
			Mid	
			High	

Band 66

BW	Modulation	RB allocation with different offset	Frequency range	Tolerance (dBm)
All Bandwidth	QPSK	1	Low	20.5~24.5
			Mid	
			High	
		50%	Low	19.5~23.5
			Mid	
			High	
		100%	Low	19.5~23.5
			Mid	
			High	
	16QAM	1	Low	20.5~24.5
			Mid	
			High	
		50%	Low	19.5~23.5
			Mid	
			High	
		100%	Low	19.5~23.5
			Mid	
			High	
	64QAM	1	Low	20.5~24.5
			Mid	
			High	
		50%	Low	19.5~23.5
			Mid	
			High	
		100%	Low	19.5~23.5
			Mid	
			High	

Bluetooth

Modulation type	Tolerance (dBm)		
	Low	Mid	High
GFSK	6.0~10.0		
$\pi/4$ DQPSK	6.0~10.0		
8DPSK	6.0~10.0		

Bluetooth (BLE)

Modulation type	Average Power Output (dBm)		
	Low	Mid	High
GFSK (LE 1Mbps)	4.0~8.0		
GFSK (LE 2Mbps)	4.0~8.0		

WLAN 2.4GHz

Modulation type	Tolerance (dBm)		
	Low	Mid	High
11b	11.5~15.5		
11g	11.5~15.5		
11n HT20	11.5~15.5		
11n HT40	11.5~15.5		

WLAN 5GHz UNII-1

Modulation type	Tolerance (dBm)		
	Low	Mid	High
11a	8.0~12.0		
11n HT20	8.0~12.0		
11n HT40	8.0~12.0		
11ac VHT20	8.0~12.0		
11ac VHT40	8.0~12.0		
11ac VHT80	8.0~12.0		

WLAN 5GHz UNII-3

Modulation type	Tolerance (dBm)		
	Low	Mid	High
11a	8.0~12.0		
11n HT20	8.0~12.0		
11n HT40	8.0~12.0		
11ac VHT20	8.0~12.0		
11ac VHT40	8.0~12.0		
11ac VHT80	8.0~12.0		

6.2 GSM Measurement result

Power Reduce

This device uses the receiver to indicate whether the user is making a voice call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. A fixed level power reduction is applied for some frequency bands when the audio receiver is on. A fixed level power reduction is applied for some frequency bands when the hotspot is on.

GSM850

GSM Measured Power:

Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	Frame average power(dBm)
824.2	128	32.67	23.64
836.4	189	32.75	23.72
848.8	251	32.81	23.78

GPRS/EGPRS (GMSK) Measured Power:

Carrier frequency (MHz)	Channel No.	TX Mode	RF Power Output (dBm)	Frame average power(dBm)
824.2	128	4Downlink1uplink	32.68	23.65
836.4	189		32.77	23.74
848.8	251		32.83	23.80
824.2	128	3Downlink2uplink	30.80	24.78
836.4	189		30.86	24.84
848.8	251		30.88	24.86
824.2	128	2Downlink3uplink	29.03	24.77
836.4	189		29.07	24.81
848.8	251		29.11	24.85
824.2	128	1Downlink4uplink	26.84	23.83
836.4	189		26.89	23.88
848.8	251		26.92	23.91

EGPRS (8PSK) Measured Power:

Carrier frequency (MHz)	Channel No.	TX Mode	RF Power Output (dBm)	Frame average power(dBm)
824.2	128	8PSK 4Downlink1uplink	25.67	16.64
836.4	189		25.99	16.96
848.8	251		28.38	19.35
824.2	128	8PSK 3Downlink2uplink	25.51	19.49
836.4	189		25.84	19.82
848.8	251		25.64	19.62
824.2	128	8PSK 2Downlink3uplink	24.17	19.91
836.4	189		24.62	20.36
848.8	251		25.13	20.87
824.2	128	8PSK 1Downlink4uplink	22.85	19.84
836.4	189		23.11	20.10
848.8	251		23.60	20.59

PCS1900

GSM Measured Power:

Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	Frame average power(dBm)
1850.2	512	29.40	20.37
1880.0	661	29.28	20.25
1909.8	810	29.44	20.41

GPRS/EGPRS (GMSK) Measured Power:

Carrier frequency (MHz)	Channel No.	TX Mode	RF Power Output (dBm)	Frame average power(dBm)
1850.2	512	4Downlink1uplink	29.41	20.38
1880.0	661		29.28	20.25
1909.8	810		29.44	20.41
1850.2	512	3Downlink2uplink	26.95	20.93
1880.0	661		26.83	20.81
1909.8	810		27.02	21.00
1850.2	512	2Downlink3uplink	25.36	21.10
1880.0	661		25.24	20.98
1909.8	810		25.43	21.17
1850.2	512	1Downlink4uplink	23.32	20.31
1880.0	661		23.21	20.20
1909.8	810		23.38	20.37

EGPRS (8PSK) Measured Power:

Carrier frequency (MHz)	Channel No.	TX Mode	RF Power Output (dBm)	Frame average power(dBm)
1850.2	512	8PSK 4Downlink1uplink	26.49	17.46
1880.0	661		26.01	16.98
1909.8	810		25.70	16.67
1850.2	512	8PSK 3Downlink2uplink	26.31	20.29
1880.0	661		25.83	19.81
1909.8	810		25.52	19.50
1850.2	512	8PSK 2Downlink3uplink	24.77	20.51
1880.0	661		24.24	19.98
1909.8	810		23.93	19.67
1850.2	512	8PSK 1Downlink4uplink	22.62	19.61
1880.0	661		22.17	19.16
1909.8	810		22.08	19.07

Division Factors (for Measured Power and Frame Average Power):

To average the power, the division factor is as follows:

1TX-slot (1uplink) = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots(2uplink) = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots (3uplink) = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots (4uplink) = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the frame average conducted power, Body-worn SAR measurements are performed with **3Txslots (3uplink)** of GMSK for GPRS850/GPRS1900

6.3 WCDMA Measurement result

Release 99

The following procedures are according to FCC KDB Publication 941225 D01.

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The DUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7).

Mode	Subtest	Rel99
WCDMA General Settings	Loopback Mode	Test Mode 1
	RMC mode AMR mode	12.2kbps RMC 12.2kbps RMC in 3.4 kbps SRB
	Power Control Algorithm	Algorithm2
	β_c/β_d	8/15

Release 5

The following 4 Sub-tests were completed according to Release 5 procedures in section 5.2 of 3GPP TS34.121.

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	CM(dB) ⁽²⁾
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15 ⁽³⁾	15/15 ⁽³⁾	64	12/15 ⁽³⁾	24/15	1.0
3	15/15	8/15	64	15/18	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

Note1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$.

Note2: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$.

Note3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period(TF1,TF0) is achieved by setting the signaled gain factors for the reference TFC(TF1,TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

Release 6

The following 5 Sub-tests were completed according to Release 6 procedures in section 5.2 of 3GPP TS34.121.

Sub-test	β_c	β_d	β_d (S F)	β_c/β_d	$\beta_{hs}^{(1)}$	β_{ec}	β_{ed}	β_{ed} (S F)	β_{ed} (code s)	CM (⁽²⁾ dB)	MP R (d B)	AG ⁽⁴⁾ Index	E-TF CI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/25	1039/25	4	1	1.0	2.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}:47/15$ $\beta_{ed2}:47/15$	4	2	2.0	2.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	15/15 ⁽⁴⁾	30/15	24/15	134/15	4	1	1.0	2.0	21	81

Note1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$.

Note2: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period(TF1,TF0) is achieved by setting the signaled gain factors for the reference TFC(TF1,TF1) to $\beta_c=10/15$ and $\beta_d=15/15$.

Note4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period(TF1,TF0) is achieved by setting the signaled gain factors for the reference TFC(TF1,TF1) to $\beta_c=14/15$ and $\beta_d=15/15$.

NOTE5: Testing UE using E-DPDCH Physical layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.

NOTE6: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Release 7

The following 1 Sub-test was completed according to Release 7 procedures in section 5.2 of 3GPP TS34.121.

Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM

Sub-test	β_c (Note 3)	β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).

Note 3: DPDCH is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ by default.

Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.

Release 8

Table E.5.0: Levels for HSDPA connection setup

Parameter During Connection setup	Unit	Value
P-CPICH_Ec/Ior	dB	-10
P-CCPCH and SCH_Ec/Ior	dB	-12
PICH_Ec/Ior	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/Ior	dB	-5
OCNS_Ec/Ior	dB	-3.1

Table C.8.1.12: Fixed Reference Channel H-Set 12

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	60
Inter-TTI Distance	TTI's	1
Number of HARQ Processes	Processes	6
Information Bit Payload (N_{inf})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK

Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.

Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.

Inf. Bit Payload

CRC Addition CRC

Code Block Segmentation

Turbo-Encoding (R=1/3) Tail Bits

1st Rate Matching

RV Selection

Physical Channel Segmentation

Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

The following 4 Sub-tests for HSDPA were completed according to Release 8 procedures in section 5.2 of 3GPP TS34.121.

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	CM(dB) ⁽²⁾
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15 ⁽³⁾	15/15 ⁽³⁾	64	12/15 ⁽³⁾	24/15	1.0
3	15/15	8/15	64	15/18	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

Note1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$.

Note2: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$.

Note3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period(TF1,TF0) is achieved by setting the signaled gain factors for the reference TFC(TF1,TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

WCDMA band II

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
Release 99	RMC,12.2kbps	1852.4	9262	23.71
		1880.0	9400	23.35
		1907.6	9538	23.44
HSDPA	Subtest 1	1852.4	9262	23.94
		1880.0	9400	23.45
		1907.6	9538	23.54
	Subtest 2	1852.4	9262	23.94
		1880.0	9400	23.45
		1907.6	9538	23.54
	Subtest 3	1852.4	9262	23.94
		1880.0	9400	23.45
		1907.6	9538	23.54
	Subtest 4	1852.4	9262	23.94
		1880.0	9400	23.45
		1907.6	9538	23.54
HSUPA	Subtest 1	1852.4	9262	23.70
		1880.0	9400	23.36
		1907.6	9538	23.45
	Subtest 2	1852.4	9262	23.70
		1880.0	9400	23.36
		1907.6	9538	23.45
	Subtest 3	1852.4	9262	23.70
		1880.0	9400	23.36
		1907.6	9538	23.45
	Subtest 4	1852.4	9262	23.70
		1880.0	9400	23.36
		1907.6	9538	23.45
	Subtest 5	1852.4	9262	23.70
		1880.0	9400	23.36
		1907.6	9538	23.45
HSPA+	QPSK	1852.4	9262	23.65
		1880.0	9400	23.38

	16QAM	1907.6	9538	23.42
		1852.4	9262	23.65
		1880.0	9400	23.38
		1907.6	9538	23.42

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
DC-HSDPA	Subtest 1	1852.4	9262	23.66
		1880.0	9400	23.36
		1907.6	9538	23.45
	Subtest 2	1852.4	9262	23.66
		1880.0	9400	23.36
		1907.6	9538	23.45
	Subtest 3	1852.4	9262	23.66
		1880.0	9400	23.36
		1907.6	9538	23.45
	Subtest 4	1852.4	9262	23.66
		1880.0	9400	23.36
		1907.6	9538	23.45

Reduced power with receive on

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
Release 99	RMC,12.2kbps	1852.4	9262	19.71
		1880.0	9400	19.35
		1907.6	9538	19.44
HSDPA	Subtest 1	1852.4	9262	19.94
		1880.0	9400	19.45
		1907.6	9538	19.54
	Subtest 2	1852.4	9262	19.94
		1880.0	9400	19.45
		1907.6	9538	19.54
	Subtest 3	1852.4	9262	19.94
		1880.0	9400	19.45
		1907.6	9538	19.54
	Subtest 4	1852.4	9262	19.94
		1880.0	9400	19.45
		1907.6	9538	19.54
HSUPA	Subtest 1	1852.4	9262	19.70
		1880.0	9400	19.36
		1907.6	9538	19.45
	Subtest 2	1852.4	9262	19.70
		1880.0	9400	19.36
		1907.6	9538	19.45
	Subtest 3	1852.4	9262	19.70
		1880.0	9400	19.36
		1880.0	9400	19.36

	Subtest 4	1907.6	9538	19.45
		1852.4	9262	19.70
		1880.0	9400	19.36
		1907.6	9538	19.45
	Subtest 5	1852.4	9262	19.70
		1880.0	9400	19.36
		1907.6	9538	19.45
HSPA+	QPSK	1852.4	9262	19.65
		1880.0	9400	19.38
		1907.6	9538	19.42
	16QAM	1852.4	9262	19.65
		1880.0	9400	19.38
		1907.6	9538	19.42

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
DC-HSDPA	Subtest 1	1852.4	9262	19.66
		1880.0	9400	19.36
		1907.6	9538	19.45
	Subtest 2	1852.4	9262	19.66
		1880.0	9400	19.36
		1907.6	9538	19.45
	Subtest 3	1852.4	9262	19.66
		1880.0	9400	19.36
		1907.6	9538	19.45
	Subtest 4	1852.4	9262	19.66
		1880.0	9400	19.36
		1907.6	9538	19.45

WCDMA band IV

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
Release 99	RMC,12.2kbps	1712.4	1312	23.45
		1732.4	1412	23.23
		1752.6	1513	23.23
HSDPA	Subtest 1	1712.4	1312	23.22
		1732.4	1412	23.23
		1752.6	1513	23.66
	Subtest 2	1712.4	1312	23.22
		1732.4	1412	23.23
		1752.6	1513	23.66
	Subtest 3	1712.4	1312	23.22
		1732.4	1412	23.23
		1752.6	1513	23.66
	Subtest 4	1712.4	1312	23.22
		1732.4	1412	23.23
		1752.6	1513	23.66
HSUPA	Subtest 1	1712.4	1312	23.47
		1732.4	1412	23.27
		1752.6	1513	23.22
	Subtest 2	1712.4	1312	23.47
		1732.4	1412	23.27
		1752.6	1513	23.22
	Subtest 3	1712.4	1312	23.47
		1732.4	1412	23.27
		1752.6	1513	23.22
	Subtest 4	1712.4	1312	23.47
		1732.4	1412	23.27
		1752.6	1513	23.22
	Subtest 5	1712.4	1312	23.47
		1732.4	1412	23.27
		1752.6	1513	23.22
HSPA+	QPSK	1712.4	1312	23.46
		1732.4	1412	23.24
		1752.6	1513	23.22
	16QAM	1712.4	1312	23.46
		1732.4	1412	23.24
		1752.6	1513	23.22

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
DC-HSDPA	Subtest 1	1712.4	1312	23.44
		1732.4	1412	23.45
		1752.6	1513	23.24
	Subtest 2	1712.4	1312	23.44
		1732.4	1412	23.45

	Subtest 3	1752.6	1513	23.24
		1712.4	1312	23.44
		1732.4	1412	23.45
	Subtest 4	1752.6	1513	23.24
		1712.4	1312	23.44
		1732.4	1412	23.45
		1752.6	1513	23.24

Reduced power with receive on

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
Release 99	RMC,12.2kbps	1712.4	1312	19.45
		1732.4	1412	19.23
		1752.6	1513	19.23
HSDPA	Subtest 1	1712.4	1312	19.22
		1732.4	1412	19.23
		1752.6	1513	19.66
	Subtest 2	1712.4	1312	19.22
		1732.4	1412	19.23
		1752.6	1513	19.66
	Subtest 3	1712.4	1312	19.22
		1732.4	1412	19.23
		1752.6	1513	19.66
	Subtest 4	1712.4	1312	19.22
		1732.4	1412	19.23
		1752.6	1513	19.66
HSUPA	Subtest 1	1712.4	1312	19.47
		1732.4	1412	19.27
		1752.6	1513	19.22
	Subtest 2	1712.4	1312	19.47
		1732.4	1412	19.27
		1752.6	1513	19.22
	Subtest 3	1712.4	1312	19.47
		1732.4	1412	19.27
		1752.6	1513	19.22
	Subtest 4	1712.4	1312	19.47
		1732.4	1412	19.27
		1752.6	1513	19.22
	Subtest 5	1712.4	1312	19.47
		1732.4	1412	19.27
		1752.6	1513	19.22
HSPA+	QPSK	1712.4	1312	19.46
		1732.4	1412	19.24
		1752.6	1513	19.22
	16QAM	1712.4	1312	19.46
		1732.4	1412	19.24
		1752.6	1513	19.22

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
DC-HSDPA	Subtest 1	1712.4	1312	19.44
		1732.4	1412	19.45
		1752.6	1513	19.24
	Subtest 2	1712.4	1312	19.44
		1732.4	1412	19.45
		1752.6	1513	19.24
	Subtest 3	1712.4	1312	19.44
		1732.4	1412	19.45
		1752.6	1513	19.24
	Subtest 4	1712.4	1312	19.44
		1732.4	1412	19.45
		1752.6	1513	19.24

WCDMA band V

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
Release 99	RMC,12.2kbps	826.4	4132	23.53
		836.6	4183	23.54
		846.6	4233	23.59
HSDPA	Subtest 1	826.4	4132	22.93
		836.6	4183	22.62
		846.6	4233	22.7
	Subtest 2	826.4	4132	22.93
		836.6	4183	22.62
		846.6	4233	22.7
	Subtest 3	826.4	4132	22.93
		836.6	4183	22.62
		846.6	4233	22.7
	Subtest 4	826.4	4132	22.93
		836.6	4183	22.62
		846.6	4233	22.7
HSUPA	Subtest 1	826.4	4132	23.46
		836.6	4183	23.52
		846.6	4233	23.63
	Subtest 2	826.4	4132	23.46
		836.6	4183	23.52
		846.6	4233	23.63
	Subtest 3	826.4	4132	23.46
		836.6	4183	23.52
		846.6	4233	23.63
	Subtest 4	826.4	4132	23.46
		836.6	4183	23.52
		846.6	4233	23.63
	Subtest 5	826.4	4132	23.46

HSPA+		836.6	4183	23.52
		846.6	4233	23.63
	QPSK	826.4	9262	23.47
		836.6	9400	23.51
		846.6	9538	23.57
	16QAM	826.4	9262	23.47
		836.6	9400	23.51
		846.6	9538	23.57

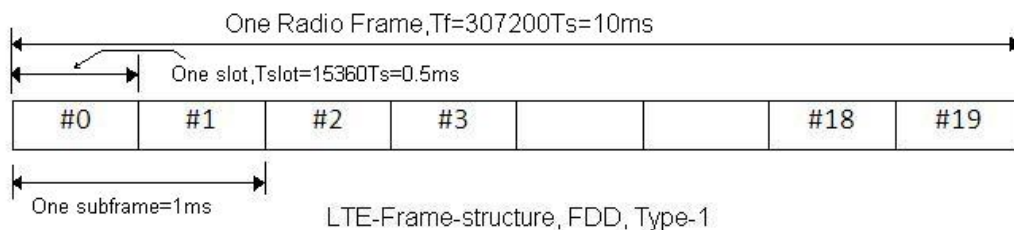
Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
DC-HSDPA	Subtest 1	826.4	9262	23.51
		836.6	9400	23.45
		846.6	9538	23.55
	Subtest 2	826.4	9262	23.51
		836.6	9400	23.45
		846.6	9538	23.55
	Subtest 3	826.4	9262	23.51
		836.6	9400	23.45
		846.6	9538	23.55
	Subtest 4	826.4	9262	23.51
		836.6	9400	23.45
		846.6	9538	23.55

Note: UMTS SAR was tested under Rel.99 RMC 12.2kbps mode per KDB Publication 941225 D01. for other higher release configuration, SAR was not required since any average output power was not more than 0.25 dB higher than the RMC level.

6.4 LTE Measurement result

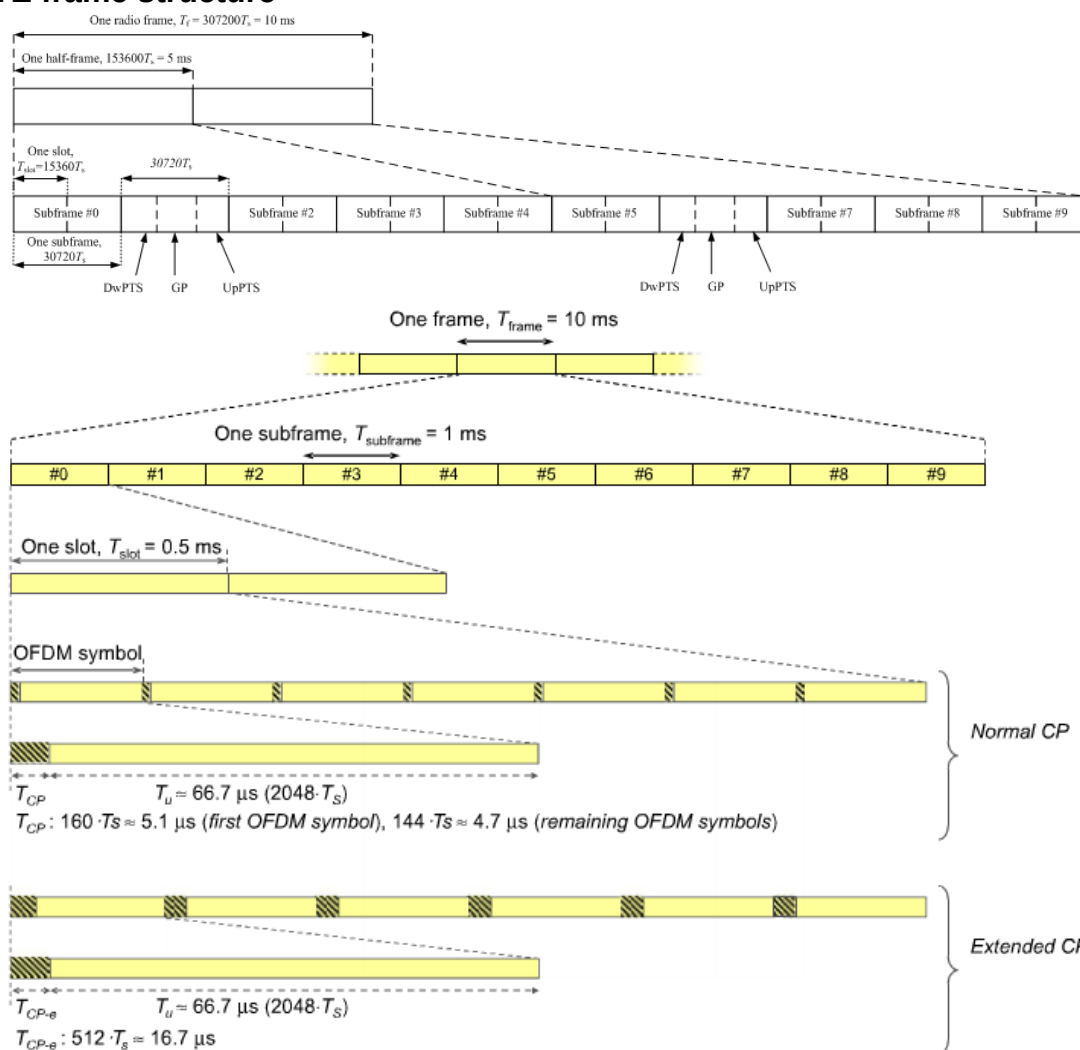
General description:

FDD-LTE frame structure



Type 1 is used as LTE FDD frame structure. As shown in the figure above, an LTE TDD frame is made of total 20 slots, each of 0.5ms. Two consecutive time slots will form one subframe. 10 such subframes form one radio frame. One subframe duration is about 1 ms, and the duty cycle is inherent as 100%

TDD-LTE frame structure



Uplink-downlink configuration

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Special sub-frame configuration

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			-	-	-
8	$24144 \cdot T_s$			-	-	-

Special sub-frame with cyclic prefix uplink

Special sub-frame configuration		Duty factor with normal cyclic prefix in uplink	Duty factor with extended cyclic prefix in uplink
Normal cyclic prefix in downlink	0~4	7.13%	8.33%
	5~9	14.3%	16.7%
Extended cyclic prefix in downlink	0~3	7.13%	8.33%
	4~7	14.3%	16.7%

So we perform SAR test with maximum duty factor equal to 63.3% by using uplink-downlink configuration 0.

Note: One sub-frame is $30720T_s=1\text{ms}$, when UpPTS(uplink) in special sub-frame with extended cyclic prefix, duty factor = $5120/30720=0.167$. There are 5 sub-frames in half frame(3up link),so the final duty factor is $(30720 \times 3 + 5120)/(30720 \times 5)=63.3\%$ which we used to evaluate the SAR compliance (worst case)

LTE Band 2

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1850.7	18607	1.4	1	0	24.2
QPSK	1850.7	18607	1.4	1	3	24.2
QPSK	1850.7	18607	1.4	1	5	24.2
QPSK	1850.7	18607	1.4	3	0	24.3
QPSK	1850.7	18607	1.4	3	1	24.3
QPSK	1850.7	18607	1.4	3	3	24.3
QPSK	1850.7	18607	1.4	6	0	23.2
QPSK	1880	18900	1.4	1	0	23.9
QPSK	1880	18900	1.4	1	3	24.0
QPSK	1880	18900	1.4	1	5	24.0
QPSK	1880	18900	1.4	3	0	24.0
QPSK	1880	18900	1.4	3	1	24.2
QPSK	1880	18900	1.4	3	3	24.0
QPSK	1880	18900	1.4	6	0	22.9
QPSK	1909.3	19193	1.4	1	0	24.2
QPSK	1909.3	19193	1.4	1	3	24.2
QPSK	1909.3	19193	1.4	1	5	24.3
QPSK	1909.3	19193	1.4	3	0	24.3
QPSK	1909.3	19193	1.4	3	1	24.3
QPSK	1909.3	19193	1.4	3	3	24.3
QPSK	1909.3	19193	1.4	6	0	23.2
16QAM	1850.7	18607	1.4	1	0	24.0
16QAM	1850.7	18607	1.4	1	3	23.9
16QAM	1850.7	18607	1.4	1	5	23.9
16QAM	1850.7	18607	1.4	3	0	23.2
16QAM	1850.7	18607	1.4	3	1	23.4
16QAM	1850.7	18607	1.4	3	3	23.4
16QAM	1850.7	18607	1.4	6	0	22.5
16QAM	1880	18900	1.4	1	0	22.8
16QAM	1880	18900	1.4	1	3	23.0
16QAM	1880	18900	1.4	1	5	23.0
16QAM	1880	18900	1.4	3	0	23.3
16QAM	1880	18900	1.4	3	1	23.3
16QAM	1880	18900	1.4	3	3	23.4
16QAM	1880	18900	1.4	6	0	22.3
16QAM	1909.3	19193	1.4	1	0	24.0
16QAM	1909.3	19193	1.4	1	3	24.0
16QAM	1909.3	19193	1.4	1	5	24.0
16QAM	1909.3	19193	1.4	3	0	23.3
16QAM	1909.3	19193	1.4	3	1	23.4
16QAM	1909.3	19193	1.4	3	3	23.4
16QAM	1909.3	19193	1.4	6	0	22.5

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1850.7	18607	1.4	1	0	22.5
64QAM	1850.7	18607	1.4	1	3	22.5
64QAM	1850.7	18607	1.4	1	5	22.5
64QAM	1850.7	18607	1.4	3	0	22.5
64QAM	1880	18900	1.4	1	0	22.1
64QAM	1880	18900	1.4	1	3	22.2
64QAM	1880	18900	1.4	1	5	22.3
64QAM	1880	18900	1.4	3	0	22.3
64QAM	1880	18900	1.4	3	1	22.3
64QAM	1880	18900	1.4	3	3	22.0
64QAM	1880	18900	1.4	6	0	22.0
64QAM	1909.3	19193	1.4	1	0	22.5
64QAM	1909.3	19193	1.4	1	3	22.6
64QAM	1909.3	19193	1.4	1	5	22.5
64QAM	1909.3	19193	1.4	3	0	22.3
64QAM	1909.3	19193	1.4	3	1	22.3
64QAM	1909.3	19193	1.4	3	3	22.3
64QAM	1909.3	19193	1.4	6	0	22.3

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1851.5	18615	3	1	0	24.0
QPSK	1851.5	18615	3	1	8	24.1
QPSK	1851.5	18615	3	1	14	24.1
QPSK	1851.5	18615	3	8	0	23.3
QPSK	1851.5	18615	3	8	4	23.1
QPSK	1851.5	18615	3	8	7	23.2
QPSK	1851.5	18615	3	15	0	23.3
QPSK	1880	18900	3	1	0	24.2
QPSK	1880	18900	3	1	8	24.1
QPSK	1880	18900	3	1	14	24.1
QPSK	1880	18900	3	8	0	23.1
QPSK	1880	18900	3	8	4	23.1
QPSK	1880	18900	3	8	7	23.1
QPSK	1880	18900	3	15	0	23.1
QPSK	1908.5	19185	3	1	0	24.2
QPSK	1908.5	19185	3	1	8	24.4
QPSK	1908.5	19185	3	1	14	24.3
QPSK	1908.5	19185	3	8	0	23.3
QPSK	1908.5	19185	3	8	4	23.3
QPSK	1908.5	19185	3	8	7	23.3
QPSK	1908.5	19185	3	15	0	23.3
16QAM	1851.5	18615	3	1	0	23.5
16QAM	1851.5	18615	3	1	8	23.6
16QAM	1851.5	18615	3	1	14	23.6
16QAM	1851.5	18615	3	8	0	22.6
16QAM	1851.5	18615	3	8	4	22.7
16QAM	1851.5	18615	3	8	7	22.6
16QAM	1851.5	18615	3	15	0	22.4
16QAM	1880	18900	3	1	0	23.6
16QAM	1880	18900	3	1	8	23.7
16QAM	1880	18900	3	1	14	23.7
16QAM	1880	18900	3	8	0	22.2
16QAM	1880	18900	3	8	4	22.3
16QAM	1880	18900	3	8	7	22.3
16QAM	1880	18900	3	15	0	22.3
16QAM	1908.5	19185	3	1	0	22.8
16QAM	1908.5	19185	3	1	8	22.9
16QAM	1908.5	19185	3	1	14	23.3
16QAM	1908.5	19185	3	8	0	22.6
16QAM	1908.5	19185	3	8	4	22.7
16QAM	1908.5	19185	3	8	7	22.7
16QAM	1908.5	19185	3	15	0	22.5

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1851.5	18615	3	1	0	22.4
64QAM	1851.5	18615	3	1	8	22.4
64QAM	1851.5	18615	3	1	14	22.4
64QAM	1851.5	18615	3	8	0	22.4
64QAM	1851.5	18615	3	8	4	22.4
64QAM	1851.5	18615	3	8	7	22.4
64QAM	1851.5	18615	3	15	0	22.4
64QAM	1880	18900	3	1	0	22.3
64QAM	1880	18900	3	1	8	22.3
64QAM	1880	18900	3	1	14	22.3
64QAM	1880	18900	3	8	0	22.3
64QAM	1880	18900	3	8	4	22.3
64QAM	1880	18900	3	8	7	22.3
64QAM	1880	18900	3	15	0	22.3
64QAM	1908.5	19185	3	1	0	22.5
64QAM	1908.5	19185	3	1	8	22.5
64QAM	1908.5	19185	3	1	14	22.5
64QAM	1908.5	19185	3	8	0	22.5
64QAM	1908.5	19185	3	8	4	22.5
64QAM	1908.5	19185	3	8	7	22.6
64QAM	1908.5	19185	3	15	0	22.5

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1852.5	18625	5	1	0	24.1
QPSK	1852.5	18625	5	1	12	24.1
QPSK	1852.5	18625	5	1	24	24.1
QPSK	1852.5	18625	5	12	0	23.2
QPSK	1852.5	18625	5	12	7	23.3
QPSK	1852.5	18625	5	12	13	23.2
QPSK	1852.5	18625	5	25	0	23.1
QPSK	1880	18900	5	1	0	24.1
QPSK	1880	18900	5	1	12	24.2
QPSK	1880	18900	5	1	24	24.2
QPSK	1880	18900	5	12	0	23.1
QPSK	1880	18900	5	12	7	23.2
QPSK	1880	18900	5	12	13	23.1
QPSK	1880	18900	5	25	0	23.1
QPSK	1907.5	19175	5	1	0	24.2
QPSK	1907.5	19175	5	1	12	24.2
QPSK	1907.5	19175	5	1	24	24.2
QPSK	1907.5	19175	5	12	0	23.3
QPSK	1907.5	19175	5	12	7	23.3
QPSK	1907.5	19175	5	12	13	23.3
QPSK	1907.5	19175	5	25	0	23.3
16QAM	1852.5	18625	5	1	0	22.5
16QAM	1852.5	18625	5	1	12	22.6
16QAM	1852.5	18625	5	1	24	22.5
16QAM	1852.5	18625	5	12	0	22.2
16QAM	1852.5	18625	5	12	7	22.2
16QAM	1852.5	18625	5	12	13	22.2
16QAM	1852.5	18625	5	25	0	22.4
16QAM	1880	18900	5	1	0	23.4
16QAM	1880	18900	5	1	12	23.4
16QAM	1880	18900	5	1	24	23.1
16QAM	1880	18900	5	12	0	22.1
16QAM	1880	18900	5	12	7	22.2
16QAM	1880	18900	5	12	13	22.4
16QAM	1880	18900	5	25	0	22.2
16QAM	1907.5	19175	5	1	0	23.4
16QAM	1907.5	19175	5	1	12	23.4
16QAM	1907.5	19175	5	1	24	23.5
16QAM	1907.5	19175	5	12	0	22.3
16QAM	1907.5	19175	5	12	7	22.3
16QAM	1907.5	19175	5	12	13	22.3
16QAM	1907.5	19175	5	25	0	22.3

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1852.5	18625	5	1	0	22.4
64QAM	1852.5	18625	5	1	12	22.4
64QAM	1852.5	18625	5	1	24	22.4
64QAM	1852.5	18625	5	12	0	22.4
64QAM	1852.5	18625	5	12	7	22.4
64QAM	1852.5	18625	5	12	13	22.4
64QAM	1852.5	18625	5	25	0	22.4
64QAM	1880	18900	5	1	0	22.2
64QAM	1880	18900	5	1	12	22.2
64QAM	1880	18900	5	1	24	22.2
64QAM	1880	18900	5	12	0	22.2
64QAM	1880	18900	5	12	7	22.2
64QAM	1880	18900	5	12	13	22.2
64QAM	1880	18900	5	25	0	22.2
64QAM	1907.5	19175	5	1	0	22.3
64QAM	1907.5	19175	5	1	12	22.3
64QAM	1907.5	19175	5	1	24	22.3
64QAM	1907.5	19175	5	12	0	22.3
64QAM	1907.5	19175	5	12	7	22.3
64QAM	1907.5	19175	5	12	13	22.3
64QAM	1907.5	19175	5	25	0	22.3

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1855	18650	10	1	0	24.1
QPSK	1855	18650	10	1	25	24.1
QPSK	1855	18650	10	1	49	24.1
QPSK	1855	18650	10	25	0	23.1
QPSK	1855	18650	10	25	12	23.2
QPSK	1855	18650	10	25	25	23.2
QPSK	1855	18650	10	50	0	23.2
QPSK	1880	18900	10	1	0	24.2
QPSK	1880	18900	10	1	25	24.3
QPSK	1880	18900	10	1	49	24.3
QPSK	1880	18900	10	25	0	23.1
QPSK	1880	18900	10	25	12	23.2
QPSK	1880	18900	10	25	25	23.1
QPSK	1880	18900	10	50	0	23.1
QPSK	1905	19150	10	1	0	24.1
QPSK	1905	19150	10	1	25	24.3
QPSK	1905	19150	10	1	49	24.4
QPSK	1905	19150	10	25	0	23.3
QPSK	1905	19150	10	25	12	23.4
QPSK	1905	19150	10	25	25	23.4
QPSK	1905	19150	10	50	0	23.3
16QAM	1855	18650	10	1	0	23.4
16QAM	1855	18650	10	1	25	23.5
16QAM	1855	18650	10	1	49	23.5
16QAM	1855	18650	10	25	0	22.3
16QAM	1855	18650	10	25	12	22.3
16QAM	1855	18650	10	25	25	22.4
16QAM	1855	18650	10	50	0	22.4
16QAM	1880	18900	10	1	0	23.9
16QAM	1880	18900	10	1	25	24.0
16QAM	1880	18900	10	1	49	24.0
16QAM	1880	18900	10	25	0	22.2
16QAM	1880	18900	10	25	12	22.3
16QAM	1880	18900	10	25	25	22.2
16QAM	1880	18900	10	50	0	22.3
16QAM	1905	19150	10	1	0	23.2
16QAM	1905	19150	10	1	25	23.3
16QAM	1905	19150	10	1	49	23.3
16QAM	1905	19150	10	25	0	22.6
16QAM	1905	19150	10	25	12	22.7
16QAM	1905	19150	10	25	25	22.6
16QAM	1905	19150	10	50	0	22.5

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1855	18650	10	1	0	22.4
64QAM	1855	18650	10	1	25	22.3
64QAM	1855	18650	10	1	49	22.4
64QAM	1855	18650	10	25	0	22.3
64QAM	1855	18650	10	25	12	22.3
64QAM	1855	18650	10	25	25	22.3
64QAM	1855	18650	10	50	0	22.3
64QAM	1880	18900	10	1	0	22.3
64QAM	1880	18900	10	1	25	22.3
64QAM	1880	18900	10	1	49	22.3
64QAM	1880	18900	10	25	0	22.3
64QAM	1880	18900	10	25	12	22.4
64QAM	1880	18900	10	25	25	22.3
64QAM	1880	18900	10	50	0	22.3
64QAM	1905	19150	10	1	0	22.5
64QAM	1905	19150	10	1	25	22.5
64QAM	1905	19150	10	1	49	22.5
64QAM	1905	19150	10	25	0	22.5
64QAM	1905	19150	10	25	12	22.5
64QAM	1905	19150	10	25	25	22.5
64QAM	1905	19150	10	50	0	22.5

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1857.5	18675	15	1	0	24.1
QPSK	1857.5	18675	15	1	37	24.1
QPSK	1857.5	18675	15	1	74	24.1
QPSK	1857.5	18675	15	36	0	23.2
QPSK	1857.5	18675	15	36	29	23.2
QPSK	1857.5	18675	15	36	30	23.2
QPSK	1857.5	18675	15	75	0	23.2
QPSK	1880	18900	15	1	0	24.2
QPSK	1880	18900	15	1	37	24.2
QPSK	1880	18900	15	1	74	24.2
QPSK	1880	18900	15	36	0	23.1
QPSK	1880	18900	15	36	29	23.2
QPSK	1880	18900	15	36	30	23.2
QPSK	1880	18900	15	75	0	23.1
QPSK	1902.5	19125	15	1	0	24.0
QPSK	1902.5	19125	15	1	37	24.2
QPSK	1902.5	19125	15	1	74	24.3
QPSK	1902.5	19125	15	36	0	23.3
QPSK	1902.5	19125	15	36	29	23.5
QPSK	1902.5	19125	15	36	30	23.5
QPSK	1902.5	19125	15	75	0	23.4
16QAM	1857.5	18675	15	1	0	23.7
16QAM	1857.5	18675	15	1	37	23.7
16QAM	1857.5	18675	15	1	74	23.7
16QAM	1857.5	18675	15	36	0	22.3
16QAM	1857.5	18675	15	36	29	22.4
16QAM	1857.5	18675	15	36	30	22.5
16QAM	1857.5	18675	15	75	0	22.3
16QAM	1880	18900	15	1	0	23.9
16QAM	1880	18900	15	1	37	24.1
16QAM	1880	18900	15	1	74	24.1
16QAM	1880	18900	15	36	0	22.2
16QAM	1880	18900	15	36	29	22.2
16QAM	1880	18900	15	36	30	22.2
16QAM	1880	18900	15	75	0	22.2
16QAM	1902.5	19125	15	1	0	23.6
16QAM	1902.5	19125	15	1	37	23.8
16QAM	1902.5	19125	15	1	74	23.8
16QAM	1902.5	19125	15	36	0	22.4
16QAM	1902.5	19125	15	36	29	22.4
16QAM	1902.5	19125	15	36	30	22.4
16QAM	1902.5	19125	15	75	0	22.3

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1857.5	18675	15	1	0	22.3
64QAM	1857.5	18675	15	1	37	22.3
64QAM	1857.5	18675	15	1	74	22.3
64QAM	1857.5	18675	15	36	0	22.3
64QAM	1857.5	18675	15	36	29	22.3
64QAM	1857.5	18675	15	36	30	22.3
64QAM	1857.5	18675	15	75	0	22.4
64QAM	1880	18900	15	1	0	22.2
64QAM	1880	18900	15	1	37	22.2
64QAM	1880	18900	15	1	74	22.2
64QAM	1880	18900	15	36	0	22.2
64QAM	1880	18900	15	36	29	22.2
64QAM	1880	18900	15	36	30	22.2
64QAM	1880	18900	15	75	0	22.2
64QAM	1902.5	19125	15	1	0	22.3
64QAM	1902.5	19125	15	1	37	22.3
64QAM	1902.5	19125	15	1	74	22.3
64QAM	1902.5	19125	15	36	0	22.3
64QAM	1902.5	19125	15	36	29	22.3
64QAM	1902.5	19125	15	36	30	22.3
64QAM	1902.5	19125	15	75	0	22.3

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1860	18700	20	1	0	24.2
QPSK	1860	18700	20	1	49	24.2
QPSK	1860	18700	20	1	99	24.2
QPSK	1860	18700	20	50	0	23.2
QPSK	1860	18700	20	50	24	23.2
QPSK	1860	18700	20	50	50	23.2
QPSK	1860	18700	20	100	0	23.1
QPSK	1880	18900	20	1	0	24.3
QPSK	1880	18900	20	1	49	24.4
QPSK	1880	18900	20	1	99	24.4
QPSK	1880	18900	20	50	0	23.2
QPSK	1880	18900	20	50	24	23.2
QPSK	1880	18900	20	50	50	23.2
QPSK	1880	18900	20	100	0	23.1
QPSK	1900	19100	20	1	0	24.1
QPSK	1900	19100	20	1	49	24.5
QPSK	1900	19100	20	1	99	24.3
QPSK	1900	19100	20	50	0	23.2
QPSK	1900	19100	20	50	24	23.3
QPSK	1900	19100	20	50	50	23.4
QPSK	1900	19100	20	100	0	23.3
16QAM	1860	18700	20	1	0	23.2
16QAM	1860	18700	20	1	49	23.4
16QAM	1860	18700	20	1	99	23.4
16QAM	1860	18700	20	50	0	22.4
16QAM	1860	18700	20	50	24	22.3
16QAM	1860	18700	20	50	50	22.3
16QAM	1860	18700	20	100	0	22.3
16QAM	1880	18900	20	1	0	23.2
16QAM	1880	18900	20	1	49	23.3
16QAM	1880	18900	20	1	99	23.3
16QAM	1880	18900	20	50	0	22.3
16QAM	1880	18900	20	50	24	22.3
16QAM	1880	18900	20	50	50	22.4
16QAM	1880	18900	20	100	0	22.2
16QAM	1900	19100	20	1	0	24.0
16QAM	1900	19100	20	1	49	24.3
16QAM	1900	19100	20	1	99	24.2
16QAM	1900	19100	20	50	0	22.3
16QAM	1900	19100	20	50	24	22.5
16QAM	1900	19100	20	50	50	22.4
16QAM	1900	19100	20	100	0	22.5

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1860	18700	20	1	0	22.3
64QAM	1860	18700	20	1	49	22.3
64QAM	1860	18700	20	1	99	22.3
64QAM	1860	18700	20	50	0	22.3
64QAM	1860	18700	20	50	24	22.3
64QAM	1860	18700	20	50	50	22.3
64QAM	1860	18700	20	100	0	22.3
64QAM	1880	18900	20	1	0	22.2
64QAM	1880	18900	20	1	49	22.2
64QAM	1880	18900	20	1	99	22.2
64QAM	1880	18900	20	50	0	22.2
64QAM	1880	18900	20	50	24	22.2
64QAM	1880	18900	20	50	50	22.2
64QAM	1880	18900	20	100	0	22.2
64QAM	1900	19100	20	1	0	22.5
64QAM	1900	19100	20	1	49	22.5
64QAM	1900	19100	20	1	99	22.5
64QAM	1900	19100	20	50	0	22.5
64QAM	1900	19100	20	50	24	22.5
64QAM	1900	19100	20	50	50	22.5
64QAM	1900	19100	20	100	0	22.4

**Reduced power with receive on
LTE Band 2**

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1850.7	18607	1.4	1	0	20.20
QPSK	1850.7	18607	1.4	1	3	20.20
QPSK	1850.7	18607	1.4	1	5	20.20
QPSK	1850.7	18607	1.4	3	0	20.30
QPSK	1850.7	18607	1.4	3	1	20.30
QPSK	1850.7	18607	1.4	3	3	20.30
QPSK	1850.7	18607	1.4	6	0	19.20
QPSK	1880	18900	1.4	1	0	19.90
QPSK	1880	18900	1.4	1	3	20.00
QPSK	1880	18900	1.4	1	5	20.00
QPSK	1880	18900	1.4	3	0	20.00
QPSK	1880	18900	1.4	3	1	20.20
QPSK	1880	18900	1.4	3	3	20.00
QPSK	1880	18900	1.4	6	0	18.90
QPSK	1909.3	19193	1.4	1	0	20.20
QPSK	1909.3	19193	1.4	1	3	20.20
QPSK	1909.3	19193	1.4	1	5	20.30
QPSK	1909.3	19193	1.4	3	0	20.30
QPSK	1909.3	19193	1.4	3	1	20.30
QPSK	1909.3	19193	1.4	3	3	20.30
QPSK	1909.3	19193	1.4	6	0	19.20
16QAM	1850.7	18607	1.4	1	0	20.00
16QAM	1850.7	18607	1.4	1	3	19.90
16QAM	1850.7	18607	1.4	1	5	19.90
16QAM	1850.7	18607	1.4	3	0	19.20
16QAM	1850.7	18607	1.4	3	1	19.40
16QAM	1850.7	18607	1.4	3	3	19.40
16QAM	1850.7	18607	1.4	6	0	18.50
16QAM	1880	18900	1.4	1	0	18.80
16QAM	1880	18900	1.4	1	3	19.00
16QAM	1880	18900	1.4	1	5	19.00
16QAM	1880	18900	1.4	3	0	19.30
16QAM	1880	18900	1.4	3	1	19.30
16QAM	1880	18900	1.4	3	3	19.40
16QAM	1880	18900	1.4	6	0	18.30
16QAM	1909.3	19193	1.4	1	0	20.00
16QAM	1909.3	19193	1.4	1	3	20.00
16QAM	1909.3	19193	1.4	1	5	20.00
16QAM	1909.3	19193	1.4	3	0	19.30
16QAM	1909.3	19193	1.4	3	1	19.40
16QAM	1909.3	19193	1.4	3	3	19.40
16QAM	1909.3	19193	1.4	6	0	18.50

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1850.7	18607	1.4	1	0	18.50
64QAM	1850.7	18607	1.4	1	3	18.50
64QAM	1850.7	18607	1.4	1	5	18.50
64QAM	1850.7	18607	1.4	3	0	18.50
64QAM	1880	18900	1.4	1	0	18.10
64QAM	1880	18900	1.4	1	3	18.20
64QAM	1880	18900	1.4	1	5	18.30
64QAM	1880	18900	1.4	3	0	18.30
64QAM	1880	18900	1.4	3	1	18.30
64QAM	1880	18900	1.4	3	3	18.00
64QAM	1880	18900	1.4	6	0	18.00
64QAM	1909.3	19193	1.4	1	0	18.50
64QAM	1909.3	19193	1.4	1	3	18.60
64QAM	1909.3	19193	1.4	1	5	18.50
64QAM	1909.3	19193	1.4	3	0	18.30
64QAM	1909.3	19193	1.4	3	1	18.30
64QAM	1909.3	19193	1.4	3	3	18.30
64QAM	1909.3	19193	1.4	6	0	18.30

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1851.5	18615	3	1	0	20.00
QPSK	1851.5	18615	3	1	8	20.10
QPSK	1851.5	18615	3	1	14	20.10
QPSK	1851.5	18615	3	8	0	19.30
QPSK	1851.5	18615	3	8	4	19.10
QPSK	1851.5	18615	3	8	7	19.20
QPSK	1851.5	18615	3	15	0	19.30
QPSK	1880	18900	3	1	0	20.20
QPSK	1880	18900	3	1	8	20.10
QPSK	1880	18900	3	1	14	20.10
QPSK	1880	18900	3	8	0	19.10
QPSK	1880	18900	3	8	4	19.10
QPSK	1880	18900	3	8	7	19.10
QPSK	1880	18900	3	15	0	19.10
QPSK	1908.5	19185	3	1	0	20.20
QPSK	1908.5	19185	3	1	8	20.40
QPSK	1908.5	19185	3	1	14	20.30
QPSK	1908.5	19185	3	8	0	19.30
QPSK	1908.5	19185	3	8	4	19.30
QPSK	1908.5	19185	3	8	7	19.30
QPSK	1908.5	19185	3	15	0	19.30
16QAM	1851.5	18615	3	1	0	19.50
16QAM	1851.5	18615	3	1	8	19.60
16QAM	1851.5	18615	3	1	14	19.60
16QAM	1851.5	18615	3	8	0	18.60
16QAM	1851.5	18615	3	8	4	18.70
16QAM	1851.5	18615	3	8	7	18.60
16QAM	1851.5	18615	3	15	0	18.40
16QAM	1880	18900	3	1	0	19.60
16QAM	1880	18900	3	1	8	19.70
16QAM	1880	18900	3	1	14	19.70
16QAM	1880	18900	3	8	0	18.20
16QAM	1880	18900	3	8	4	18.30
16QAM	1880	18900	3	8	7	18.30
16QAM	1880	18900	3	15	0	18.30
16QAM	1908.5	19185	3	1	0	18.80
16QAM	1908.5	19185	3	1	8	18.90
16QAM	1908.5	19185	3	1	14	19.30
16QAM	1908.5	19185	3	8	0	18.60
16QAM	1908.5	19185	3	8	4	18.70
16QAM	1908.5	19185	3	8	7	18.70
16QAM	1908.5	19185	3	15	0	18.50

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1851.5	18615	3	1	0	18.40
64QAM	1851.5	18615	3	1	8	18.40
64QAM	1851.5	18615	3	1	14	18.40
64QAM	1851.5	18615	3	8	0	18.40
64QAM	1851.5	18615	3	8	4	18.40
64QAM	1851.5	18615	3	8	7	18.40
64QAM	1851.5	18615	3	15	0	18.40
64QAM	1880	18900	3	1	0	18.30
64QAM	1880	18900	3	1	8	18.30
64QAM	1880	18900	3	1	14	18.30
64QAM	1880	18900	3	8	0	18.30
64QAM	1880	18900	3	8	4	18.30
64QAM	1880	18900	3	8	7	18.30
64QAM	1880	18900	3	15	0	18.30
64QAM	1908.5	19185	3	1	0	18.50
64QAM	1908.5	19185	3	1	8	18.50
64QAM	1908.5	19185	3	1	14	18.50
64QAM	1908.5	19185	3	8	0	18.50
64QAM	1908.5	19185	3	8	4	18.50
64QAM	1908.5	19185	3	8	7	18.60
64QAM	1908.5	19185	3	15	0	18.50

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1852.5	18625	5	1	0	20.10
QPSK	1852.5	18625	5	1	12	20.10
QPSK	1852.5	18625	5	1	24	20.10
QPSK	1852.5	18625	5	12	0	19.20
QPSK	1852.5	18625	5	12	7	19.30
QPSK	1852.5	18625	5	12	13	19.20
QPSK	1852.5	18625	5	25	0	19.10
QPSK	1880	18900	5	1	0	20.10
QPSK	1880	18900	5	1	12	20.20
QPSK	1880	18900	5	1	24	20.20
QPSK	1880	18900	5	12	0	19.10
QPSK	1880	18900	5	12	7	19.20
QPSK	1880	18900	5	12	13	19.10
QPSK	1880	18900	5	25	0	19.10
QPSK	1907.5	19175	5	1	0	20.20
QPSK	1907.5	19175	5	1	12	20.20
QPSK	1907.5	19175	5	1	24	20.20
QPSK	1907.5	19175	5	12	0	19.30
QPSK	1907.5	19175	5	12	7	19.30
QPSK	1907.5	19175	5	12	13	19.30
QPSK	1907.5	19175	5	25	0	19.30
16QAM	1852.5	18625	5	1	0	18.50
16QAM	1852.5	18625	5	1	12	18.60
16QAM	1852.5	18625	5	1	24	18.50
16QAM	1852.5	18625	5	12	0	18.20
16QAM	1852.5	18625	5	12	7	18.20
16QAM	1852.5	18625	5	12	13	18.20
16QAM	1852.5	18625	5	25	0	18.40
16QAM	1880	18900	5	1	0	19.40
16QAM	1880	18900	5	1	12	19.40
16QAM	1880	18900	5	1	24	19.10
16QAM	1880	18900	5	12	0	18.10
16QAM	1880	18900	5	12	7	18.20
16QAM	1880	18900	5	12	13	18.40
16QAM	1880	18900	5	25	0	18.20
16QAM	1907.5	19175	5	1	0	19.40
16QAM	1907.5	19175	5	1	12	19.40
16QAM	1907.5	19175	5	1	24	19.50
16QAM	1907.5	19175	5	12	0	18.30
16QAM	1907.5	19175	5	12	7	18.30
16QAM	1907.5	19175	5	12	13	18.30
16QAM	1907.5	19175	5	25	0	18.30

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1852.5	18625	5	1	0	18.40
64QAM	1852.5	18625	5	1	12	18.40
64QAM	1852.5	18625	5	1	24	18.40
64QAM	1852.5	18625	5	12	0	18.40
64QAM	1852.5	18625	5	12	7	18.40
64QAM	1852.5	18625	5	12	13	18.40
64QAM	1852.5	18625	5	25	0	18.40
64QAM	1880	18900	5	1	0	18.20
64QAM	1880	18900	5	1	12	18.20
64QAM	1880	18900	5	1	24	18.20
64QAM	1880	18900	5	12	0	18.20
64QAM	1880	18900	5	12	7	18.20
64QAM	1880	18900	5	12	13	18.20
64QAM	1880	18900	5	25	0	18.20
64QAM	1907.5	19175	5	1	0	18.30
64QAM	1907.5	19175	5	1	12	18.30
64QAM	1907.5	19175	5	1	24	18.30
64QAM	1907.5	19175	5	12	0	18.30
64QAM	1907.5	19175	5	12	7	18.30
64QAM	1907.5	19175	5	12	13	18.30
64QAM	1907.5	19175	5	25	0	18.30

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1855	18650	10	1	0	20.10
QPSK	1855	18650	10	1	25	20.10
QPSK	1855	18650	10	1	49	20.10
QPSK	1855	18650	10	25	0	19.10
QPSK	1855	18650	10	25	12	19.20
QPSK	1855	18650	10	25	25	19.20
QPSK	1855	18650	10	50	0	19.20
QPSK	1880	18900	10	1	0	20.20
QPSK	1880	18900	10	1	25	20.30
QPSK	1880	18900	10	1	49	20.30
QPSK	1880	18900	10	25	0	19.10
QPSK	1880	18900	10	25	12	19.20
QPSK	1880	18900	10	25	25	19.10
QPSK	1880	18900	10	50	0	19.10
QPSK	1905	19150	10	1	0	20.10
QPSK	1905	19150	10	1	25	20.30
QPSK	1905	19150	10	1	49	20.40
QPSK	1905	19150	10	25	0	19.30
QPSK	1905	19150	10	25	12	19.40
QPSK	1905	19150	10	25	25	19.40
QPSK	1905	19150	10	50	0	19.30
16QAM	1855	18650	10	1	0	19.40
16QAM	1855	18650	10	1	25	19.50
16QAM	1855	18650	10	1	49	19.50
16QAM	1855	18650	10	25	0	18.30
16QAM	1855	18650	10	25	12	18.30
16QAM	1855	18650	10	25	25	18.40
16QAM	1855	18650	10	50	0	18.40
16QAM	1880	18900	10	1	0	19.90
16QAM	1880	18900	10	1	25	20.00
16QAM	1880	18900	10	1	49	20.00
16QAM	1880	18900	10	25	0	18.20
16QAM	1880	18900	10	25	12	18.30
16QAM	1880	18900	10	25	25	18.20
16QAM	1880	18900	10	50	0	18.30
16QAM	1905	19150	10	1	0	19.20
16QAM	1905	19150	10	1	25	19.30
16QAM	1905	19150	10	1	49	19.30
16QAM	1905	19150	10	25	0	18.60
16QAM	1905	19150	10	25	12	18.70
16QAM	1905	19150	10	25	25	18.60
16QAM	1905	19150	10	50	0	18.50

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1855	18650	10	1	0	18.40
64QAM	1855	18650	10	1	25	18.30
64QAM	1855	18650	10	1	49	18.40
64QAM	1855	18650	10	25	0	18.30
64QAM	1855	18650	10	25	12	18.30
64QAM	1855	18650	10	25	25	18.30
64QAM	1855	18650	10	50	0	18.30
64QAM	1880	18900	10	1	0	18.30
64QAM	1880	18900	10	1	25	18.30
64QAM	1880	18900	10	1	49	18.30
64QAM	1880	18900	10	25	0	18.30
64QAM	1880	18900	10	25	12	18.40
64QAM	1880	18900	10	25	25	18.30
64QAM	1880	18900	10	50	0	18.30
64QAM	1905	19150	10	1	0	18.50
64QAM	1905	19150	10	1	25	18.50
64QAM	1905	19150	10	1	49	18.50
64QAM	1905	19150	10	25	0	18.50
64QAM	1905	19150	10	25	12	18.50
64QAM	1905	19150	10	25	25	18.50
64QAM	1905	19150	10	50	0	18.50

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1857.5	18675	15	1	0	20.10
QPSK	1857.5	18675	15	1	37	20.10
QPSK	1857.5	18675	15	1	74	20.10
QPSK	1857.5	18675	15	36	0	19.20
QPSK	1857.5	18675	15	36	29	19.20
QPSK	1857.5	18675	15	36	30	19.20
QPSK	1857.5	18675	15	75	0	19.20
QPSK	1880	18900	15	1	0	20.20
QPSK	1880	18900	15	1	37	20.20
QPSK	1880	18900	15	1	74	20.20
QPSK	1880	18900	15	36	0	19.10
QPSK	1880	18900	15	36	29	19.20
QPSK	1880	18900	15	36	30	19.20
QPSK	1880	18900	15	75	0	19.10
QPSK	1902.5	19125	15	1	0	20.00
QPSK	1902.5	19125	15	1	37	20.20
QPSK	1902.5	19125	15	1	74	20.30
QPSK	1902.5	19125	15	36	0	19.30
QPSK	1902.5	19125	15	36	29	19.50
QPSK	1902.5	19125	15	36	30	19.50
QPSK	1902.5	19125	15	75	0	19.40
16QAM	1857.5	18675	15	1	0	19.70
16QAM	1857.5	18675	15	1	37	19.70
16QAM	1857.5	18675	15	1	74	19.70
16QAM	1857.5	18675	15	36	0	18.30
16QAM	1857.5	18675	15	36	29	18.40
16QAM	1857.5	18675	15	36	30	18.50
16QAM	1857.5	18675	15	75	0	18.30
16QAM	1880	18900	15	1	0	19.90
16QAM	1880	18900	15	1	37	20.10
16QAM	1880	18900	15	1	74	20.10
16QAM	1880	18900	15	36	0	18.20
16QAM	1880	18900	15	36	29	18.20
16QAM	1880	18900	15	36	30	18.20
16QAM	1880	18900	15	75	0	18.20
16QAM	1902.5	19125	15	1	0	19.60
16QAM	1902.5	19125	15	1	37	19.80
16QAM	1902.5	19125	15	1	74	19.80
16QAM	1902.5	19125	15	36	0	18.40
16QAM	1902.5	19125	15	36	29	18.40
16QAM	1902.5	19125	15	36	30	18.40
16QAM	1902.5	19125	15	75	0	18.30

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1857.5	18675	15	1	0	18.30
64QAM	1857.5	18675	15	1	37	18.30
64QAM	1857.5	18675	15	1	74	18.30
64QAM	1857.5	18675	15	36	0	18.30
64QAM	1857.5	18675	15	36	29	18.30
64QAM	1857.5	18675	15	36	30	18.30
64QAM	1857.5	18675	15	75	0	18.40
64QAM	1880	18900	15	1	0	18.20
64QAM	1880	18900	15	1	37	18.20
64QAM	1880	18900	15	1	74	18.20
64QAM	1880	18900	15	36	0	18.20
64QAM	1880	18900	15	36	29	18.20
64QAM	1880	18900	15	36	30	18.20
64QAM	1880	18900	15	75	0	18.20
64QAM	1902.5	19125	15	1	0	18.30
64QAM	1902.5	19125	15	1	37	18.30
64QAM	1902.5	19125	15	1	74	18.30
64QAM	1902.5	19125	15	36	0	18.30
64QAM	1902.5	19125	15	36	29	18.30
64QAM	1902.5	19125	15	36	30	18.30
64QAM	1902.5	19125	15	75	0	18.30

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1860	18700	20	1	0	20.20
QPSK	1860	18700	20	1	49	20.20
QPSK	1860	18700	20	1	99	20.20
QPSK	1860	18700	20	50	0	19.20
QPSK	1860	18700	20	50	24	19.20
QPSK	1860	18700	20	50	50	19.20
QPSK	1860	18700	20	100	0	19.10
QPSK	1880	18900	20	1	0	20.30
QPSK	1880	18900	20	1	49	20.40
QPSK	1880	18900	20	1	99	20.40
QPSK	1880	18900	20	50	0	19.20
QPSK	1880	18900	20	50	24	19.20
QPSK	1880	18900	20	50	50	19.20
QPSK	1880	18900	20	100	0	19.10
QPSK	1900	19100	20	1	0	20.10
QPSK	1900	19100	20	1	49	20.50
QPSK	1900	19100	20	1	99	20.30
QPSK	1900	19100	20	50	0	19.20
QPSK	1900	19100	20	50	24	19.30
QPSK	1900	19100	20	50	50	19.40
QPSK	1900	19100	20	100	0	19.30
16QAM	1860	18700	20	1	0	19.20
16QAM	1860	18700	20	1	49	19.40
16QAM	1860	18700	20	1	99	19.40
16QAM	1860	18700	20	50	0	18.40
16QAM	1860	18700	20	50	24	18.30
16QAM	1860	18700	20	50	50	18.30
16QAM	1860	18700	20	100	0	18.30
16QAM	1880	18900	20	1	0	19.20
16QAM	1880	18900	20	1	49	19.30
16QAM	1880	18900	20	1	99	19.30
16QAM	1880	18900	20	50	0	18.30
16QAM	1880	18900	20	50	24	18.30
16QAM	1880	18900	20	50	50	18.40
16QAM	1880	18900	20	100	0	18.20
16QAM	1900	19100	20	1	0	20.00
16QAM	1900	19100	20	1	49	20.30
16QAM	1900	19100	20	1	99	20.20
16QAM	1900	19100	20	50	0	18.30
16QAM	1900	19100	20	50	24	18.50
16QAM	1900	19100	20	50	50	18.40
16QAM	1900	19100	20	100	0	18.50

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1860	18700	20	1	0	18.30
64QAM	1860	18700	20	1	49	18.30
64QAM	1860	18700	20	1	99	18.30
64QAM	1860	18700	20	50	0	18.30
64QAM	1860	18700	20	50	24	18.30
64QAM	1860	18700	20	50	50	18.30
64QAM	1860	18700	20	100	0	18.30
64QAM	1880	18900	20	1	0	18.20
64QAM	1880	18900	20	1	49	18.20
64QAM	1880	18900	20	1	99	18.20
64QAM	1880	18900	20	50	0	18.20
64QAM	1880	18900	20	50	24	18.20
64QAM	1880	18900	20	50	50	18.20
64QAM	1880	18900	20	100	0	18.20
64QAM	1900	19100	20	1	0	18.50
64QAM	1900	19100	20	1	49	18.50
64QAM	1900	19100	20	1	99	18.50
64QAM	1900	19100	20	50	0	18.50
64QAM	1900	19100	20	50	24	18.50
64QAM	1900	19100	20	50	50	18.50
64QAM	1900	19100	20	100	0	18.40

LTE Band 4

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1710.7	19957	1.4	1	0	23.3
QPSK	1710.7	19957	1.4	1	3	23.3
QPSK	1710.7	19957	1.4	1	5	23.2
QPSK	1710.7	19957	1.4	3	0	23.3
QPSK	1710.7	19957	1.4	3	1	23.3
QPSK	1710.7	19957	1.4	3	3	23.3
QPSK	1710.7	19957	1.4	6	0	22.2
QPSK	1732.5	20175	1.4	1	0	22.9
QPSK	1732.5	20175	1.4	1	3	23.0
QPSK	1732.5	20175	1.4	1	5	23.0
QPSK	1732.5	20175	1.4	3	0	23.0
QPSK	1732.5	20175	1.4	3	1	23.0
QPSK	1732.5	20175	1.4	3	3	23.0
QPSK	1732.5	20175	1.4	6	0	21.9
QPSK	1754.3	20393	1.4	1	0	23.0
QPSK	1754.3	20393	1.4	1	3	23.0
QPSK	1754.3	20393	1.4	1	5	23.0
QPSK	1754.3	20393	1.4	3	0	23.0
QPSK	1754.3	20393	1.4	3	1	22.9
QPSK	1754.3	20393	1.4	3	3	22.9
QPSK	1754.3	20393	1.4	6	0	21.8
16QAM	1710.7	19957	1.4	1	0	23.1
16QAM	1710.7	19957	1.4	1	3	23.0
16QAM	1710.7	19957	1.4	1	5	23.1
16QAM	1710.7	19957	1.4	3	0	22.4
16QAM	1710.7	19957	1.4	3	1	22.3
16QAM	1710.7	19957	1.4	3	3	22.3
16QAM	1710.7	19957	1.4	6	0	21.3
16QAM	1732.5	20175	1.4	1	0	22.2
16QAM	1732.5	20175	1.4	1	3	22.8
16QAM	1732.5	20175	1.4	1	5	22.7
16QAM	1732.5	20175	1.4	3	0	21.9
16QAM	1732.5	20175	1.4	3	1	21.8
16QAM	1732.5	20175	1.4	3	3	21.9
16QAM	1732.5	20175	1.4	6	0	21.3
16QAM	1754.3	20393	1.4	1	0	21.7
16QAM	1754.3	20393	1.4	1	3	22.0
16QAM	1754.3	20393	1.4	1	5	22.0
16QAM	1754.3	20393	1.4	3	0	21.9
16QAM	1754.3	20393	1.4	3	1	21.7
16QAM	1754.3	20393	1.4	3	3	21.7
16QAM	1754.3	20393	1.4	6	0	21.1

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1710.7	19957	1.4	1	0	21.4
64QAM	1710.7	19957	1.4	1	3	21.3
64QAM	1710.7	19957	1.4	1	5	21.4
64QAM	1710.7	19957	1.4	3	0	21.4
64QAM	1710.7	19957	1.4	3	1	21.4
64QAM	1710.7	19957	1.4	3	3	21.4
64QAM	1710.7	19957	1.4	6	0	21.4
64QAM	1732.5	20175	1.4	1	0	21.2
64QAM	1732.5	20175	1.4	1	3	21.0
64QAM	1732.5	20175	1.4	1	5	21.0
64QAM	1732.5	20175	1.4	3	0	21.1
64QAM	1732.5	20175	1.4	3	1	21.0
64QAM	1732.5	20175	1.4	3	3	21.3
64QAM	1732.5	20175	1.4	6	0	21.3
64QAM	1754.3	20393	1.4	1	0	21.2
64QAM	1754.3	20393	1.4	1	3	21.2
64QAM	1754.3	20393	1.4	1	5	21.2
64QAM	1754.3	20393	1.4	3	0	21.2
64QAM	1754.3	20393	1.4	3	1	21.2
64QAM	1754.3	20393	1.4	3	3	21.2
64QAM	1754.3	20393	1.4	6	0	21.2

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1711.5	19965	3	1	0	23.2
QPSK	1711.5	19965	3	1	8	23.2
QPSK	1711.5	19965	3	1	14	23.1
QPSK	1711.5	19965	3	8	0	22.3
QPSK	1711.5	19965	3	8	4	22.1
QPSK	1711.5	19965	3	8	7	22.1
QPSK	1711.5	19965	3	15	0	22.2
QPSK	1732.5	20175	3	1	0	22.9
QPSK	1732.5	20175	3	1	8	23.0
QPSK	1732.5	20175	3	1	14	22.9
QPSK	1732.5	20175	3	8	0	21.9
QPSK	1732.5	20175	3	8	4	22.0
QPSK	1732.5	20175	3	8	7	22.0
QPSK	1732.5	20175	3	15	0	21.9
QPSK	1753.5	20385	3	1	0	22.9
QPSK	1753.5	20385	3	1	8	23.0
QPSK	1753.5	20385	3	1	14	22.9
QPSK	1753.5	20385	3	8	0	21.8
QPSK	1753.5	20385	3	8	4	21.9
QPSK	1753.5	20385	3	8	7	21.9
QPSK	1753.5	20385	3	15	0	21.9
16QAM	1711.5	19965	3	1	0	22.5
16QAM	1711.5	19965	3	1	8	22.6
16QAM	1711.5	19965	3	1	14	22.6
16QAM	1711.5	19965	3	8	0	21.7
16QAM	1711.5	19965	3	8	4	21.5
16QAM	1711.5	19965	3	8	7	21.6
16QAM	1711.5	19965	3	15	0	21.4
16QAM	1732.5	20175	3	1	0	22.7
16QAM	1732.5	20175	3	1	8	22.6
16QAM	1732.5	20175	3	1	14	22.8
16QAM	1732.5	20175	3	8	0	20.9
16QAM	1732.5	20175	3	8	4	20.8
16QAM	1732.5	20175	3	8	7	21.0
16QAM	1732.5	20175	3	15	0	20.9
16QAM	1753.5	20385	3	1	0	21.7
16QAM	1753.5	20385	3	1	8	21.7
16QAM	1753.5	20385	3	1	14	22.0
16QAM	1753.5	20385	3	8	0	21.2
16QAM	1753.5	20385	3	8	4	21.1
16QAM	1753.5	20385	3	8	7	21.1
16QAM	1753.5	20385	3	15	0	20.9

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1711.5	19965	3	1	0	21.4
64QAM	1711.5	19965	3	1	8	21.5
64QAM	1711.5	19965	3	1	14	21.5
64QAM	1711.5	19965	3	8	0	21.4
64QAM	1711.5	19965	3	8	4	21.4
64QAM	1711.5	19965	3	8	7	21.4
64QAM	1711.5	19965	3	15	0	21.4
64QAM	1732.5	20175	3	1	0	21.2
64QAM	1732.5	20175	3	1	8	21.0
64QAM	1732.5	20175	3	1	14	21.2
64QAM	1732.5	20175	3	8	0	21.0
64QAM	1732.5	20175	3	8	4	21.2
64QAM	1732.5	20175	3	8	7	21.2
64QAM	1732.5	20175	3	15	0	21.2
64QAM	1753.5	20385	3	1	0	20.9
64QAM	1753.5	20385	3	1	8	21.1
64QAM	1753.5	20385	3	1	14	20.9
64QAM	1753.5	20385	3	8	0	21.1
64QAM	1753.5	20385	3	8	4	21.1
64QAM	1753.5	20385	3	8	7	21.1
64QAM	1753.5	20385	3	15	0	20.9

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1712.5	19975	5	1	0	23.2
QPSK	1712.5	19975	5	1	12	23.0
QPSK	1712.5	19975	5	1	24	23.0
QPSK	1712.5	19975	5	12	0	22.3
QPSK	1712.5	19975	5	12	7	22.2
QPSK	1712.5	19975	5	12	13	22.2
QPSK	1712.5	19975	5	25	0	22.1
QPSK	1732.5	20175	5	1	0	23.1
QPSK	1732.5	20175	5	1	12	23.0
QPSK	1732.5	20175	5	1	24	23.0
QPSK	1732.5	20175	5	12	0	22.0
QPSK	1732.5	20175	5	12	7	22.0
QPSK	1732.5	20175	5	12	13	22.0
QPSK	1732.5	20175	5	25	0	21.9
QPSK	1752.5	20375	5	1	0	22.6
QPSK	1752.5	20375	5	1	12	22.7
QPSK	1752.5	20375	5	1	24	22.6
QPSK	1752.5	20375	5	12	0	21.8
QPSK	1752.5	20375	5	12	7	21.8
QPSK	1752.5	20375	5	12	13	21.8
QPSK	1752.5	20375	5	25	0	21.9
16QAM	1712.5	19975	5	1	0	21.5
16QAM	1712.5	19975	5	1	12	21.3
16QAM	1712.5	19975	5	1	24	21.4
16QAM	1712.5	19975	5	12	0	21.4
16QAM	1712.5	19975	5	12	7	21.2
16QAM	1712.5	19975	5	12	13	21.3
16QAM	1712.5	19975	5	25	0	21.3
16QAM	1732.5	20175	5	1	0	22.2
16QAM	1732.5	20175	5	1	12	21.9
16QAM	1732.5	20175	5	1	24	21.9
16QAM	1732.5	20175	5	12	0	20.9
16QAM	1732.5	20175	5	12	7	21.0
16QAM	1732.5	20175	5	12	13	21.0
16QAM	1732.5	20175	5	25	0	21.0
16QAM	1752.5	20375	5	1	0	21.9
16QAM	1752.5	20375	5	1	12	21.9
16QAM	1752.5	20375	5	1	24	21.9
16QAM	1752.5	20375	5	12	0	20.9
16QAM	1752.5	20375	5	12	7	21.0
16QAM	1752.5	20375	5	12	13	20.9
16QAM	1752.5	20375	5	25	0	21.0

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1712.5	19975	5	1	0	21.3
64QAM	1712.5	19975	5	1	12	21.3
64QAM	1712.5	19975	5	1	24	21.3
64QAM	1712.5	19975	5	12	0	21.3
64QAM	1712.5	19975	5	12	7	21.3
64QAM	1712.5	19975	5	12	13	21.3
64QAM	1712.5	19975	5	25	0	21.3
64QAM	1732.5	20175	5	1	0	21.0
64QAM	1732.5	20175	5	1	12	21.0
64QAM	1732.5	20175	5	1	24	21.0
64QAM	1732.5	20175	5	12	0	21.0
64QAM	1732.5	20175	5	12	7	21.2
64QAM	1732.5	20175	5	12	13	21.2
64QAM	1732.5	20175	5	25	0	21.3
64QAM	1752.5	20375	5	1	0	21.0
64QAM	1752.5	20375	5	1	12	20.8
64QAM	1752.5	20375	5	1	24	20.8
64QAM	1752.5	20375	5	12	0	20.8
64QAM	1752.5	20375	5	12	7	20.8
64QAM	1752.5	20375	5	12	13	20.8
64QAM	1752.5	20375	5	25	0	20.8

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1715	20000	10	1	0	23.2
QPSK	1715	20000	10	1	25	23.0
QPSK	1715	20000	10	1	49	23.0
QPSK	1715	20000	10	25	0	22.2
QPSK	1715	20000	10	25	12	22.1
QPSK	1715	20000	10	25	25	22.1
QPSK	1715	20000	10	50	0	22.1
QPSK	1732.5	20175	10	1	0	23.0
QPSK	1732.5	20175	10	1	25	23.0
QPSK	1732.5	20175	10	1	49	23.0
QPSK	1732.5	20175	10	25	0	21.9
QPSK	1732.5	20175	10	25	12	21.8
QPSK	1732.5	20175	10	25	25	21.8
QPSK	1732.5	20175	10	50	0	22.0
QPSK	1750	20350	10	1	0	22.9
QPSK	1750	20350	10	1	25	23.0
QPSK	1750	20350	10	1	49	23.0
QPSK	1750	20350	10	25	0	21.9
QPSK	1750	20350	10	25	12	21.8
QPSK	1750	20350	10	25	25	21.8
QPSK	1750	20350	10	50	0	21.8
16QAM	1715	20000	10	1	0	22.6
16QAM	1715	20000	10	1	25	22.3
16QAM	1715	20000	10	1	49	22.6
16QAM	1715	20000	10	25	0	21.3
16QAM	1715	20000	10	25	12	21.2
16QAM	1715	20000	10	25	25	21.3
16QAM	1715	20000	10	50	0	21.2
16QAM	1732.5	20175	10	1	0	22.8
16QAM	1732.5	20175	10	1	25	22.7
16QAM	1732.5	20175	10	1	49	22.8
16QAM	1732.5	20175	10	25	0	21.3
16QAM	1732.5	20175	10	25	12	21.0
16QAM	1732.5	20175	10	25	25	21.1
16QAM	1732.5	20175	10	50	0	21.2
16QAM	1750	20350	10	1	0	21.7
16QAM	1750	20350	10	1	25	21.6
16QAM	1750	20350	10	1	49	21.6
16QAM	1750	20350	10	25	0	21.0
16QAM	1750	20350	10	25	12	21.0
16QAM	1750	20350	10	25	25	21.1
16QAM	1750	20350	10	50	0	21.0

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1715	20000	10	1	0	21.2
64QAM	1715	20000	10	1	25	21.2
64QAM	1715	20000	10	1	49	21.2
64QAM	1715	20000	10	25	0	21.2
64QAM	1715	20000	10	25	12	21.2
64QAM	1715	20000	10	25	25	21.2
64QAM	1715	20000	10	50	0	21.2
64QAM	1732.5	20175	10	1	0	21.1
64QAM	1732.5	20175	10	1	25	21.2
64QAM	1732.5	20175	10	1	49	21.1
64QAM	1732.5	20175	10	25	0	21.2
64QAM	1732.5	20175	10	25	12	21.1
64QAM	1732.5	20175	10	25	25	21.2
64QAM	1732.5	20175	10	50	0	21.2
64QAM	1750	20350	10	1	0	21.0
64QAM	1750	20350	10	1	25	21.0
64QAM	1750	20350	10	1	49	21.0
64QAM	1750	20350	10	25	0	21.0
64QAM	1750	20350	10	25	12	21.0
64QAM	1750	20350	10	25	25	21.0
64QAM	1750	20350	10	50	0	21.0

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1717.5	20025	15	1	0	23.2
QPSK	1717.5	20025	15	1	37	22.9
QPSK	1717.5	20025	15	1	74	23.0
QPSK	1717.5	20025	15	36	0	22.1
QPSK	1717.5	20025	15	36	29	22.1
QPSK	1717.5	20025	15	36	30	22.1
QPSK	1717.5	20025	15	75	0	22.1
QPSK	1732.5	20175	15	1	0	23.1
QPSK	1732.5	20175	15	1	37	22.9
QPSK	1732.5	20175	15	1	74	22.9
QPSK	1732.5	20175	15	36	0	21.9
QPSK	1732.5	20175	15	36	29	21.8
QPSK	1732.5	20175	15	36	30	21.8
QPSK	1732.5	20175	15	75	0	22.0
QPSK	1747.5	20325	15	1	0	23.0
QPSK	1747.5	20325	15	1	37	22.9
QPSK	1747.5	20325	15	1	74	22.9
QPSK	1747.5	20325	15	36	0	22.0
QPSK	1747.5	20325	15	36	29	21.9
QPSK	1747.5	20325	15	36	30	21.9
QPSK	1747.5	20325	15	75	0	21.9
16QAM	1717.5	20025	15	1	0	22.7
16QAM	1717.5	20025	15	1	37	22.3
16QAM	1717.5	20025	15	1	74	22.3
16QAM	1717.5	20025	15	36	0	21.2
16QAM	1717.5	20025	15	36	29	21.1
16QAM	1717.5	20025	15	36	30	21.1
16QAM	1717.5	20025	15	75	0	21.1
16QAM	1732.5	20175	15	1	0	22.8
16QAM	1732.5	20175	15	1	37	22.8
16QAM	1732.5	20175	15	1	74	22.7
16QAM	1732.5	20175	15	36	0	21.0
16QAM	1732.5	20175	15	36	29	21.0
16QAM	1732.5	20175	15	36	30	21.1
16QAM	1732.5	20175	15	75	0	21.1
16QAM	1747.5	20325	15	1	0	22.4
16QAM	1747.5	20325	15	1	37	22.4
16QAM	1747.5	20325	15	1	74	22.4
16QAM	1747.5	20325	15	36	0	21.1
16QAM	1747.5	20325	15	36	29	21.0
16QAM	1747.5	20325	15	36	30	21.0
16QAM	1747.5	20325	15	75	0	20.9

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1717.5	20025	15	1	0	21.1
64QAM	1717.5	20025	15	1	37	21.1
64QAM	1717.5	20025	15	1	74	21.1
64QAM	1717.5	20025	15	36	0	21.1
64QAM	1717.5	20025	15	36	29	21.4
64QAM	1717.5	20025	15	36	30	21.4
64QAM	1717.5	20025	15	75	0	21.3
64QAM	1732.5	20175	15	1	0	21.1
64QAM	1732.5	20175	15	1	37	21.1
64QAM	1732.5	20175	15	1	74	21.1
64QAM	1732.5	20175	15	36	0	21.1
64QAM	1732.5	20175	15	36	29	21.1
64QAM	1732.5	20175	15	36	30	21.1
64QAM	1732.5	20175	15	75	0	21.1
64QAM	1747.5	20325	15	1	0	20.9
64QAM	1747.5	20325	15	1	37	20.9
64QAM	1747.5	20325	15	1	74	20.9
64QAM	1747.5	20325	15	36	0	20.9
64QAM	1747.5	20325	15	36	29	21.0
64QAM	1747.5	20325	15	36	30	21.0
64QAM	1747.5	20325	15	75	0	20.9

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1720	20050	20	1	0	23.4
QPSK	1720	20050	20	1	49	23.0
QPSK	1720	20050	20	1	99	23.0
QPSK	1720	20050	20	50	0	22.0
QPSK	1720	20050	20	50	24	21.9
QPSK	1720	20050	20	50	50	21.9
QPSK	1720	20050	20	100	0	22.1
QPSK	1732.5	20175	20	1	0	23.3
QPSK	1732.5	20175	20	1	49	23.1
QPSK	1732.5	20175	20	1	99	23.1
QPSK	1732.5	20175	20	50	0	22.1
QPSK	1732.5	20175	20	50	24	22.0
QPSK	1732.5	20175	20	50	50	22.0
QPSK	1732.5	20175	20	100	0	22.0
QPSK	1745	20300	20	1	0	23.1
QPSK	1745	20300	20	1	49	23.0
QPSK	1745	20300	20	1	99	23.0
QPSK	1745	20300	20	50	0	21.8
QPSK	1745	20300	20	50	24	21.9
QPSK	1745	20300	20	50	50	21.9
QPSK	1745	20300	20	100	0	21.9
16QAM	1720	20050	20	1	0	22.5
16QAM	1720	20050	20	1	49	22.2
16QAM	1720	20050	20	1	99	22.2
16QAM	1720	20050	20	50	0	21.3
16QAM	1720	20050	20	50	24	21.2
16QAM	1720	20050	20	50	50	21.1
16QAM	1720	20050	20	100	0	21.2
16QAM	1732.5	20175	20	1	0	22.6
16QAM	1732.5	20175	20	1	49	22.3
16QAM	1732.5	20175	20	1	99	22.4
16QAM	1732.5	20175	20	50	0	21.1
16QAM	1732.5	20175	20	50	24	21.0
16QAM	1732.5	20175	20	50	50	21.0
16QAM	1732.5	20175	20	100	0	21.1
16QAM	1745	20300	20	1	0	22.5
16QAM	1745	20300	20	1	49	22.8
16QAM	1745	20300	20	1	99	22.8
16QAM	1745	20300	20	50	0	21.0
16QAM	1745	20300	20	50	24	21.0
16QAM	1745	20300	20	50	50	21.0
16QAM	1745	20300	20	100	0	21.1

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1720	20050	20	1	0	21.1
64QAM	1720	20050	20	1	49	21.1
64QAM	1720	20050	20	1	99	21.2
64QAM	1720	20050	20	50	0	21.2
64QAM	1720	20050	20	50	24	21.2
64QAM	1720	20050	20	50	50	21.2
64QAM	1720	20050	20	100	0	21.2
64QAM	1732.5	20175	20	1	0	21.1
64QAM	1732.5	20175	20	1	49	21.1
64QAM	1732.5	20175	20	1	99	21.1
64QAM	1732.5	20175	20	50	0	21.1
64QAM	1732.5	20175	20	50	24	21.1
64QAM	1732.5	20175	20	50	50	21.1
64QAM	1732.5	20175	20	100	0	21.1
64QAM	1745	20300	20	1	0	21.1
64QAM	1745	20300	20	1	49	21.1
64QAM	1745	20300	20	1	99	21.1
64QAM	1745	20300	20	50	0	21.1
64QAM	1745	20300	20	50	24	21.1
64QAM	1745	20300	20	50	50	21.1
64QAM	1745	20300	20	100	0	21.1

Reduced power with receive on LTE Band 4

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1710.7	19957	1.4	1	0	19.30
QPSK	1710.7	19957	1.4	1	3	19.30
QPSK	1710.7	19957	1.4	1	5	19.20
QPSK	1710.7	19957	1.4	3	0	19.30
QPSK	1710.7	19957	1.4	3	1	19.30
QPSK	1710.7	19957	1.4	3	3	19.30
QPSK	1710.7	19957	1.4	6	0	18.20
QPSK	1732.5	20175	1.4	1	0	18.90
QPSK	1732.5	20175	1.4	1	3	19.00
QPSK	1732.5	20175	1.4	1	5	19.00
QPSK	1732.5	20175	1.4	3	0	19.00
QPSK	1732.5	20175	1.4	3	1	19.00
QPSK	1732.5	20175	1.4	3	3	19.00
QPSK	1732.5	20175	1.4	6	0	17.90
QPSK	1754.3	20393	1.4	1	0	19.00
QPSK	1754.3	20393	1.4	1	3	19.00
QPSK	1754.3	20393	1.4	1	5	19.00
QPSK	1754.3	20393	1.4	3	0	19.00
QPSK	1754.3	20393	1.4	3	1	18.90
QPSK	1754.3	20393	1.4	3	3	18.90
QPSK	1754.3	20393	1.4	6	0	17.80
16QAM	1710.7	19957	1.4	1	0	19.10
16QAM	1710.7	19957	1.4	1	3	19.00
16QAM	1710.7	19957	1.4	1	5	19.10
16QAM	1710.7	19957	1.4	3	0	18.40
16QAM	1710.7	19957	1.4	3	1	18.30
16QAM	1710.7	19957	1.4	3	3	18.30
16QAM	1710.7	19957	1.4	6	0	17.30
16QAM	1732.5	20175	1.4	1	0	18.20
16QAM	1732.5	20175	1.4	1	3	18.80
16QAM	1732.5	20175	1.4	1	5	18.70
16QAM	1732.5	20175	1.4	3	0	17.90
16QAM	1732.5	20175	1.4	3	1	17.80
16QAM	1732.5	20175	1.4	3	3	17.90
16QAM	1732.5	20175	1.4	6	0	17.30
16QAM	1754.3	20393	1.4	1	0	17.70
16QAM	1754.3	20393	1.4	1	3	18.00
16QAM	1754.3	20393	1.4	1	5	18.00
16QAM	1754.3	20393	1.4	3	0	17.90
16QAM	1754.3	20393	1.4	3	1	17.70
16QAM	1754.3	20393	1.4	3	3	17.70
16QAM	1754.3	20393	1.4	6	0	17.10

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1710.7	19957	1.4	1	0	17.40
64QAM	1710.7	19957	1.4	1	3	17.30
64QAM	1710.7	19957	1.4	1	5	17.40
64QAM	1710.7	19957	1.4	3	0	17.40
64QAM	1710.7	19957	1.4	3	1	17.40
64QAM	1710.7	19957	1.4	3	3	17.40
64QAM	1710.7	19957	1.4	6	0	17.40
64QAM	1732.5	20175	1.4	1	0	17.20
64QAM	1732.5	20175	1.4	1	3	17.00
64QAM	1732.5	20175	1.4	1	5	17.00
64QAM	1732.5	20175	1.4	3	0	17.10
64QAM	1732.5	20175	1.4	3	1	17.00
64QAM	1732.5	20175	1.4	3	3	17.30
64QAM	1732.5	20175	1.4	6	0	17.30
64QAM	1754.3	20393	1.4	1	0	17.20
64QAM	1754.3	20393	1.4	1	3	17.20
64QAM	1754.3	20393	1.4	1	5	17.20
64QAM	1754.3	20393	1.4	3	0	17.20
64QAM	1754.3	20393	1.4	3	1	17.20
64QAM	1754.3	20393	1.4	3	3	17.20
64QAM	1754.3	20393	1.4	6	0	17.20

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1711.5	19965	3	1	0	19.20
QPSK	1711.5	19965	3	1	8	19.20
QPSK	1711.5	19965	3	1	14	19.10
QPSK	1711.5	19965	3	8	0	18.30
QPSK	1711.5	19965	3	8	4	18.10
QPSK	1711.5	19965	3	8	7	18.10
QPSK	1711.5	19965	3	15	0	18.20
QPSK	1732.5	20175	3	1	0	18.90
QPSK	1732.5	20175	3	1	8	19.00
QPSK	1732.5	20175	3	1	14	18.90
QPSK	1732.5	20175	3	8	0	17.90
QPSK	1732.5	20175	3	8	4	18.00
QPSK	1732.5	20175	3	8	7	18.00
QPSK	1732.5	20175	3	15	0	17.90
QPSK	1753.5	20385	3	1	0	18.90
QPSK	1753.5	20385	3	1	8	19.00
QPSK	1753.5	20385	3	1	14	18.90
QPSK	1753.5	20385	3	8	0	17.80
QPSK	1753.5	20385	3	8	4	17.90
QPSK	1753.5	20385	3	8	7	17.90
QPSK	1753.5	20385	3	15	0	17.90
16QAM	1711.5	19965	3	1	0	18.50
16QAM	1711.5	19965	3	1	8	18.60
16QAM	1711.5	19965	3	1	14	18.60
16QAM	1711.5	19965	3	8	0	17.70
16QAM	1711.5	19965	3	8	4	17.50
16QAM	1711.5	19965	3	8	7	17.60
16QAM	1711.5	19965	3	15	0	17.40
16QAM	1732.5	20175	3	1	0	18.70
16QAM	1732.5	20175	3	1	8	18.60
16QAM	1732.5	20175	3	1	14	18.80
16QAM	1732.5	20175	3	8	0	16.90
16QAM	1732.5	20175	3	8	4	16.80
16QAM	1732.5	20175	3	8	7	17.00
16QAM	1732.5	20175	3	15	0	16.90
16QAM	1753.5	20385	3	1	0	17.70
16QAM	1753.5	20385	3	1	8	17.70
16QAM	1753.5	20385	3	1	14	18.00
16QAM	1753.5	20385	3	8	0	17.20
16QAM	1753.5	20385	3	8	4	17.10
16QAM	1753.5	20385	3	8	7	17.10
16QAM	1753.5	20385	3	15	0	16.90

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1711.5	19965	3	1	0	17.40
64QAM	1711.5	19965	3	1	8	17.50
64QAM	1711.5	19965	3	1	14	17.50
64QAM	1711.5	19965	3	8	0	17.40
64QAM	1711.5	19965	3	8	4	17.40
64QAM	1711.5	19965	3	8	7	17.40
64QAM	1711.5	19965	3	15	0	17.40
64QAM	1732.5	20175	3	1	0	17.20
64QAM	1732.5	20175	3	1	8	17.00
64QAM	1732.5	20175	3	1	14	17.20
64QAM	1732.5	20175	3	8	0	17.00
64QAM	1732.5	20175	3	8	4	17.20
64QAM	1732.5	20175	3	8	7	17.20
64QAM	1732.5	20175	3	15	0	17.20
64QAM	1753.5	20385	3	1	0	16.90
64QAM	1753.5	20385	3	1	8	17.10
64QAM	1753.5	20385	3	1	14	16.90
64QAM	1753.5	20385	3	8	0	17.10
64QAM	1753.5	20385	3	8	4	17.10
64QAM	1753.5	20385	3	8	7	17.10
64QAM	1753.5	20385	3	15	0	16.90

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1712.5	19975	5	1	0	19.20
QPSK	1712.5	19975	5	1	12	19.00
QPSK	1712.5	19975	5	1	24	19.00
QPSK	1712.5	19975	5	12	0	18.30
QPSK	1712.5	19975	5	12	7	18.20
QPSK	1712.5	19975	5	12	13	18.20
QPSK	1712.5	19975	5	25	0	18.10
QPSK	1732.5	20175	5	1	0	19.10
QPSK	1732.5	20175	5	1	12	19.00
QPSK	1732.5	20175	5	1	24	19.00
QPSK	1732.5	20175	5	12	0	18.00
QPSK	1732.5	20175	5	12	7	18.00
QPSK	1732.5	20175	5	12	13	18.00
QPSK	1732.5	20175	5	25	0	17.90
QPSK	1752.5	20375	5	1	0	18.60
QPSK	1752.5	20375	5	1	12	18.70
QPSK	1752.5	20375	5	1	24	18.60
QPSK	1752.5	20375	5	12	0	17.80
QPSK	1752.5	20375	5	12	7	17.80
QPSK	1752.5	20375	5	12	13	17.80
QPSK	1752.5	20375	5	25	0	17.90
16QAM	1712.5	19975	5	1	0	17.50
16QAM	1712.5	19975	5	1	12	17.30
16QAM	1712.5	19975	5	1	24	17.40
16QAM	1712.5	19975	5	12	0	17.40
16QAM	1712.5	19975	5	12	7	17.20
16QAM	1712.5	19975	5	12	13	17.30
16QAM	1712.5	19975	5	25	0	17.30
16QAM	1732.5	20175	5	1	0	18.20
16QAM	1732.5	20175	5	1	12	17.90
16QAM	1732.5	20175	5	1	24	17.90
16QAM	1732.5	20175	5	12	0	16.90
16QAM	1732.5	20175	5	12	7	17.00
16QAM	1732.5	20175	5	12	13	17.00
16QAM	1732.5	20175	5	25	0	17.00
16QAM	1752.5	20375	5	1	0	17.90
16QAM	1752.5	20375	5	1	12	17.90
16QAM	1752.5	20375	5	1	24	17.90
16QAM	1752.5	20375	5	12	0	16.90
16QAM	1752.5	20375	5	12	7	17.00
16QAM	1752.5	20375	5	12	13	16.90
16QAM	1752.5	20375	5	25	0	17.00

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1712.5	19975	5	1	0	17.30
64QAM	1712.5	19975	5	1	12	17.30
64QAM	1712.5	19975	5	1	24	17.30
64QAM	1712.5	19975	5	12	0	17.30
64QAM	1712.5	19975	5	12	7	17.30
64QAM	1712.5	19975	5	12	13	17.30
64QAM	1712.5	19975	5	25	0	17.30
64QAM	1732.5	20175	5	1	0	17.00
64QAM	1732.5	20175	5	1	12	17.00
64QAM	1732.5	20175	5	1	24	17.00
64QAM	1732.5	20175	5	12	0	17.00
64QAM	1732.5	20175	5	12	7	17.20
64QAM	1732.5	20175	5	12	13	17.20
64QAM	1732.5	20175	5	25	0	17.30
64QAM	1752.5	20375	5	1	0	17.00
64QAM	1752.5	20375	5	1	12	16.80
64QAM	1752.5	20375	5	1	24	16.80
64QAM	1752.5	20375	5	12	0	16.80
64QAM	1752.5	20375	5	12	7	16.80
64QAM	1752.5	20375	5	12	13	16.80
64QAM	1752.5	20375	5	25	0	16.80

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1715	20000	10	1	0	19.20
QPSK	1715	20000	10	1	25	19.00
QPSK	1715	20000	10	1	49	19.00
QPSK	1715	20000	10	25	0	18.20
QPSK	1715	20000	10	25	12	18.10
QPSK	1715	20000	10	25	25	18.10
QPSK	1715	20000	10	50	0	18.10
QPSK	1732.5	20175	10	1	0	19.00
QPSK	1732.5	20175	10	1	25	19.00
QPSK	1732.5	20175	10	1	49	19.00
QPSK	1732.5	20175	10	25	0	17.90
QPSK	1732.5	20175	10	25	12	17.80
QPSK	1732.5	20175	10	25	25	17.80
QPSK	1732.5	20175	10	50	0	18.00
QPSK	1750	20350	10	1	0	18.90
QPSK	1750	20350	10	1	25	19.00
QPSK	1750	20350	10	1	49	19.00
QPSK	1750	20350	10	25	0	17.90
QPSK	1750	20350	10	25	12	17.80
QPSK	1750	20350	10	25	25	17.80
QPSK	1750	20350	10	50	0	17.80
16QAM	1715	20000	10	1	0	18.60
16QAM	1715	20000	10	1	25	18.30
16QAM	1715	20000	10	1	49	18.60
16QAM	1715	20000	10	25	0	17.30
16QAM	1715	20000	10	25	12	17.20
16QAM	1715	20000	10	25	25	17.30
16QAM	1715	20000	10	50	0	17.20
16QAM	1732.5	20175	10	1	0	18.80
16QAM	1732.5	20175	10	1	25	18.70
16QAM	1732.5	20175	10	1	49	18.80
16QAM	1732.5	20175	10	25	0	17.30
16QAM	1732.5	20175	10	25	12	17.00
16QAM	1732.5	20175	10	25	25	17.10
16QAM	1732.5	20175	10	50	0	17.20
16QAM	1750	20350	10	1	0	17.70
16QAM	1750	20350	10	1	25	17.60
16QAM	1750	20350	10	1	49	17.60
16QAM	1750	20350	10	25	0	17.00
16QAM	1750	20350	10	25	12	17.00
16QAM	1750	20350	10	25	25	17.10
16QAM	1750	20350	10	50	0	17.00

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1715	20000	10	1	0	17.20
64QAM	1715	20000	10	1	25	17.20
64QAM	1715	20000	10	1	49	17.20
64QAM	1715	20000	10	25	0	17.20
64QAM	1715	20000	10	25	12	17.20
64QAM	1715	20000	10	25	25	17.20
64QAM	1715	20000	10	50	0	17.20
64QAM	1732.5	20175	10	1	0	17.10
64QAM	1732.5	20175	10	1	25	17.20
64QAM	1732.5	20175	10	1	49	17.10
64QAM	1732.5	20175	10	25	0	17.20
64QAM	1732.5	20175	10	25	12	17.10
64QAM	1732.5	20175	10	25	25	17.20
64QAM	1732.5	20175	10	50	0	17.20
64QAM	1750	20350	10	1	0	17.00
64QAM	1750	20350	10	1	25	17.00
64QAM	1750	20350	10	1	49	17.00
64QAM	1750	20350	10	25	0	17.00
64QAM	1750	20350	10	25	12	17.00
64QAM	1750	20350	10	25	25	17.00
64QAM	1750	20350	10	50	0	17.00

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1717.5	20025	15	1	0	19.20
QPSK	1717.5	20025	15	1	37	18.90
QPSK	1717.5	20025	15	1	74	19.00
QPSK	1717.5	20025	15	36	0	18.10
QPSK	1717.5	20025	15	36	29	18.10
QPSK	1717.5	20025	15	36	30	18.10
QPSK	1717.5	20025	15	75	0	18.10
QPSK	1732.5	20175	15	1	0	19.10
QPSK	1732.5	20175	15	1	37	18.90
QPSK	1732.5	20175	15	1	74	18.90
QPSK	1732.5	20175	15	36	0	17.90
QPSK	1732.5	20175	15	36	29	17.80
QPSK	1732.5	20175	15	36	30	17.80
QPSK	1732.5	20175	15	75	0	18.00
QPSK	1747.5	20325	15	1	0	19.00
QPSK	1747.5	20325	15	1	37	18.90
QPSK	1747.5	20325	15	1	74	18.90
QPSK	1747.5	20325	15	36	0	18.00
QPSK	1747.5	20325	15	36	29	17.90
QPSK	1747.5	20325	15	36	30	17.90
QPSK	1747.5	20325	15	75	0	17.90
16QAM	1717.5	20025	15	1	0	18.70
16QAM	1717.5	20025	15	1	37	18.30
16QAM	1717.5	20025	15	1	74	18.30
16QAM	1717.5	20025	15	36	0	17.20
16QAM	1717.5	20025	15	36	29	17.10
16QAM	1717.5	20025	15	36	30	17.10
16QAM	1717.5	20025	15	75	0	17.10
16QAM	1732.5	20175	15	1	0	18.80
16QAM	1732.5	20175	15	1	37	18.80
16QAM	1732.5	20175	15	1	74	18.70
16QAM	1732.5	20175	15	36	0	17.00
16QAM	1732.5	20175	15	36	29	17.00
16QAM	1732.5	20175	15	36	30	17.10
16QAM	1732.5	20175	15	75	0	17.10
16QAM	1747.5	20325	15	1	0	18.40
16QAM	1747.5	20325	15	1	37	18.40
16QAM	1747.5	20325	15	1	74	18.40
16QAM	1747.5	20325	15	36	0	17.10
16QAM	1747.5	20325	15	36	29	17.00
16QAM	1747.5	20325	15	36	30	17.00
16QAM	1747.5	20325	15	75	0	16.90

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1717.5	20025	15	1	0	17.10
64QAM	1717.5	20025	15	1	37	17.10
64QAM	1717.5	20025	15	1	74	17.10
64QAM	1717.5	20025	15	36	0	17.10
64QAM	1717.5	20025	15	36	29	17.40
64QAM	1717.5	20025	15	36	30	17.40
64QAM	1717.5	20025	15	75	0	17.30
64QAM	1732.5	20175	15	1	0	17.10
64QAM	1732.5	20175	15	1	37	17.10
64QAM	1732.5	20175	15	1	74	17.10
64QAM	1732.5	20175	15	36	0	17.10
64QAM	1732.5	20175	15	36	29	17.10
64QAM	1732.5	20175	15	36	30	17.10
64QAM	1732.5	20175	15	75	0	17.10
64QAM	1747.5	20325	15	1	0	16.90
64QAM	1747.5	20325	15	1	37	16.90
64QAM	1747.5	20325	15	1	74	16.90
64QAM	1747.5	20325	15	36	0	16.90
64QAM	1747.5	20325	15	36	29	17.00
64QAM	1747.5	20325	15	36	30	17.00
64QAM	1747.5	20325	15	75	0	16.90

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1720	20050	20	1	0	19.40
QPSK	1720	20050	20	1	49	19.00
QPSK	1720	20050	20	1	99	19.00
QPSK	1720	20050	20	50	0	18.00
QPSK	1720	20050	20	50	24	17.90
QPSK	1720	20050	20	50	50	17.90
QPSK	1720	20050	20	100	0	18.10
QPSK	1732.5	20175	20	1	0	19.30
QPSK	1732.5	20175	20	1	49	19.10
QPSK	1732.5	20175	20	1	99	19.10
QPSK	1732.5	20175	20	50	0	18.10
QPSK	1732.5	20175	20	50	24	18.00
QPSK	1732.5	20175	20	50	50	18.00
QPSK	1732.5	20175	20	100	0	18.00
QPSK	1745	20300	20	1	0	19.10
QPSK	1745	20300	20	1	49	19.00
QPSK	1745	20300	20	1	99	19.00
QPSK	1745	20300	20	50	0	17.80
QPSK	1745	20300	20	50	24	17.90
QPSK	1745	20300	20	50	50	17.90
QPSK	1745	20300	20	100	0	17.90
16QAM	1720	20050	20	1	0	18.50
16QAM	1720	20050	20	1	49	18.20
16QAM	1720	20050	20	1	99	18.20
16QAM	1720	20050	20	50	0	17.30
16QAM	1720	20050	20	50	24	17.20
16QAM	1720	20050	20	50	50	17.10
16QAM	1720	20050	20	100	0	17.20
16QAM	1732.5	20175	20	1	0	18.60
16QAM	1732.5	20175	20	1	49	18.30
16QAM	1732.5	20175	20	1	99	18.40
16QAM	1732.5	20175	20	50	0	17.10
16QAM	1732.5	20175	20	50	24	17.00
16QAM	1732.5	20175	20	50	50	17.00
16QAM	1732.5	20175	20	100	0	17.10
16QAM	1745	20300	20	1	0	18.50
16QAM	1745	20300	20	1	49	18.80
16QAM	1745	20300	20	1	99	18.80
16QAM	1745	20300	20	50	0	17.00
16QAM	1745	20300	20	50	24	17.00
16QAM	1745	20300	20	50	50	17.00
16QAM	1745	20300	20	100	0	17.10

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1720	20050	20	1	0	17.10
64QAM	1720	20050	20	1	49	17.10
64QAM	1720	20050	20	1	99	17.20
64QAM	1720	20050	20	50	0	17.20
64QAM	1720	20050	20	50	24	17.20
64QAM	1720	20050	20	50	50	17.20
64QAM	1720	20050	20	100	0	17.20
64QAM	1732.5	20175	20	1	0	17.10
64QAM	1732.5	20175	20	1	49	17.10
64QAM	1732.5	20175	20	1	99	17.10
64QAM	1732.5	20175	20	50	0	17.10
64QAM	1732.5	20175	20	50	24	17.10
64QAM	1732.5	20175	20	50	50	17.10
64QAM	1732.5	20175	20	100	0	17.10
64QAM	1745	20300	20	1	0	17.10
64QAM	1745	20300	20	1	49	17.10
64QAM	1745	20300	20	1	99	17.10
64QAM	1745	20300	20	50	0	17.10
64QAM	1745	20300	20	50	24	17.10
64QAM	1745	20300	20	50	50	17.10
64QAM	1745	20300	20	100	0	17.10

LTE Band 5

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	824.7	20407	1.4	1	0	23.3
QPSK	824.7	20407	1.4	1	3	23.4
QPSK	824.7	20407	1.4	1	5	23.4
QPSK	824.7	20407	1.4	3	0	23.5
QPSK	824.7	20407	1.4	3	1	23.5
QPSK	824.7	20407	1.4	3	3	23.4
QPSK	824.7	20407	1.4	6	0	22.3
QPSK	836.5	20525	1.4	1	0	23.3
QPSK	836.5	20525	1.4	1	3	23.5
QPSK	836.5	20525	1.4	1	5	23.5
QPSK	836.5	20525	1.4	3	0	23.5
QPSK	836.5	20525	1.4	3	1	23.5
QPSK	836.5	20525	1.4	3	3	23.5
QPSK	836.5	20525	1.4	6	0	22.5
QPSK	848.3	20643	1.4	1	0	23.6
QPSK	848.3	20643	1.4	1	3	23.8
QPSK	848.3	20643	1.4	1	5	23.7
QPSK	848.3	20643	1.4	3	0	23.5
QPSK	848.3	20643	1.4	3	1	23.7
QPSK	848.3	20643	1.4	3	3	23.6
QPSK	848.3	20643	1.4	6	0	22.6
16QAM	824.7	20407	1.4	1	0	22.6
16QAM	824.7	20407	1.4	1	3	22.7
16QAM	824.7	20407	1.4	1	5	22.7
16QAM	824.7	20407	1.4	3	0	22.3
16QAM	824.7	20407	1.4	3	1	22.3
16QAM	824.7	20407	1.4	3	3	22.5
16QAM	824.7	20407	1.4	6	0	21.6
16QAM	836.5	20525	1.4	1	0	23.1
16QAM	836.5	20525	1.4	1	3	23.2
16QAM	836.5	20525	1.4	1	5	23.2
16QAM	836.5	20525	1.4	3	0	22.3
16QAM	836.5	20525	1.4	3	1	22.3
16QAM	836.5	20525	1.4	3	3	22.5
16QAM	836.5	20525	1.4	6	0	21.7
16QAM	848.3	20643	1.4	1	0	22.4
16QAM	848.3	20643	1.4	1	3	22.5
16QAM	848.3	20643	1.4	1	5	22.6
16QAM	848.3	20643	1.4	3	0	22.3
16QAM	848.3	20643	1.4	3	1	22.3
16QAM	848.3	20643	1.4	3	3	22.3
16QAM	848.3	20643	1.4	6	0	21.7

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	824.7	20407	1.4	1	0	21.7
64QAM	824.7	20407	1.4	1	3	21.6
64QAM	824.7	20407	1.4	1	5	21.7
64QAM	824.7	20407	1.4	3	0	21.6
64QAM	824.7	20407	1.4	3	1	21.6
64QAM	824.7	20407	1.4	3	3	21.6
64QAM	824.7	20407	1.4	6	0	21.6
64QAM	836.5	20525	1.4	1	0	21.7
64QAM	836.5	20525	1.4	1	3	21.7
64QAM	836.5	20525	1.4	1	5	21.7
64QAM	836.5	20525	1.4	3	0	21.7
64QAM	836.5	20525	1.4	3	1	21.7
64QAM	836.5	20525	1.4	3	3	21.7
64QAM	836.5	20525	1.4	6	0	21.5
64QAM	848.3	20643	1.4	1	0	21.8
64QAM	848.3	20643	1.4	1	3	21.7
64QAM	848.3	20643	1.4	1	5	21.7
64QAM	848.3	20643	1.4	3	0	21.7
64QAM	848.3	20643	1.4	3	1	21.9
64QAM	848.3	20643	1.4	3	3	21.9
64QAM	848.3	20643	1.4	6	0	21.8

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	23.2
QPSK	825.5	20415	3	1	8	23.2
QPSK	825.5	20415	3	1	14	23.2
QPSK	825.5	20415	3	8	0	22.4
QPSK	825.5	20415	3	8	4	22.4
QPSK	825.5	20415	3	8	7	22.4
QPSK	825.5	20415	3	15	0	22.4
QPSK	836.5	20525	3	1	0	23.4
QPSK	836.5	20525	3	1	8	23.4
QPSK	836.5	20525	3	1	14	23.5
QPSK	836.5	20525	3	8	0	22.3
QPSK	836.5	20525	3	8	4	22.5
QPSK	836.5	20525	3	8	7	22.5
QPSK	836.5	20525	3	15	0	22.4
QPSK	847.5	20635	3	1	0	23.6
QPSK	847.5	20635	3	1	8	23.8
QPSK	847.5	20635	3	1	14	23.7
QPSK	847.5	20635	3	8	0	22.6
QPSK	847.5	20635	3	8	4	22.7
QPSK	847.5	20635	3	8	7	22.7
QPSK	847.5	20635	3	15	0	22.6
16QAM	825.5	20415	3	1	0	22.7
16QAM	825.5	20415	3	1	8	22.6
16QAM	825.5	20415	3	1	14	22.6
16QAM	825.5	20415	3	8	0	21.7
16QAM	825.5	20415	3	8	4	21.7
16QAM	825.5	20415	3	8	7	21.7
16QAM	825.5	20415	3	15	0	21.5
16QAM	836.5	20525	3	1	0	22.6
16QAM	836.5	20525	3	1	8	22.6
16QAM	836.5	20525	3	1	14	22.6
16QAM	836.5	20525	3	8	0	21.5
16QAM	836.5	20525	3	8	4	21.4
16QAM	836.5	20525	3	8	7	21.6
16QAM	836.5	20525	3	15	0	21.5
16QAM	847.5	20635	3	1	0	22.2
16QAM	847.5	20635	3	1	8	22.2
16QAM	847.5	20635	3	1	14	22.3
16QAM	847.5	20635	3	8	0	21.7
16QAM	847.5	20635	3	8	4	21.8
16QAM	847.5	20635	3	8	7	21.8
16QAM	847.5	20635	3	15	0	21.6

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	825.5	20415	3	1	0	21.5
64QAM	825.5	20415	3	1	8	21.5
64QAM	825.5	20415	3	1	14	21.5
64QAM	825.5	20415	3	8	0	21.5
64QAM	825.5	20415	3	8	4	21.5
64QAM	825.5	20415	3	8	7	21.5
64QAM	825.5	20415	3	15	0	21.5
64QAM	836.5	20525	3	1	0	21.5
64QAM	836.5	20525	3	1	8	21.5
64QAM	836.5	20525	3	1	14	21.5
64QAM	836.5	20525	3	8	0	21.5
64QAM	836.5	20525	3	8	4	21.5
64QAM	836.5	20525	3	8	7	21.5
64QAM	836.5	20525	3	15	0	21.5
64QAM	847.5	20635	3	1	0	21.6
64QAM	847.5	20635	3	1	8	21.6
64QAM	847.5	20635	3	1	14	21.6
64QAM	847.5	20635	3	8	0	21.6
64QAM	847.5	20635	3	8	4	21.6
64QAM	847.5	20635	3	8	7	21.6
64QAM	847.5	20635	3	15	0	21.6

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	23.4
QPSK	826.5	20425	5	1	12	23.3
QPSK	826.5	20425	5	1	24	23.3
QPSK	826.5	20425	5	12	0	22.4
QPSK	826.5	20425	5	12	7	22.3
QPSK	826.5	20425	5	12	13	22.3
QPSK	826.5	20425	5	25	0	22.3
QPSK	836.5	20525	5	1	0	23.4
QPSK	836.5	20525	5	1	12	23.5
QPSK	836.5	20525	5	1	24	23.5
QPSK	836.5	20525	5	12	0	22.4
QPSK	836.5	20525	5	12	7	22.4
QPSK	836.5	20525	5	12	13	22.4
QPSK	836.5	20525	5	25	0	22.4
QPSK	846.5	20625	5	1	0	23.3
QPSK	846.5	20625	5	1	12	23.4
QPSK	846.5	20625	5	1	24	23.4
QPSK	846.5	20625	5	12	0	22.6
QPSK	846.5	20625	5	12	7	22.6
QPSK	846.5	20625	5	12	13	22.6
QPSK	846.5	20625	5	25	0	22.6
16QAM	826.5	20425	5	1	0	21.6
16QAM	826.5	20425	5	1	12	21.5
16QAM	826.5	20425	5	1	24	21.5
16QAM	826.5	20425	5	12	0	21.4
16QAM	826.5	20425	5	12	7	21.3
16QAM	826.5	20425	5	12	13	21.3
16QAM	826.5	20425	5	25	0	21.4
16QAM	836.5	20525	5	1	0	22.4
16QAM	836.5	20525	5	1	12	22.5
16QAM	836.5	20525	5	1	24	22.5
16QAM	836.5	20525	5	12	0	21.4
16QAM	836.5	20525	5	12	7	21.5
16QAM	836.5	20525	5	12	13	21.5
16QAM	836.5	20525	5	25	0	21.5
16QAM	846.5	20625	5	1	0	22.2
16QAM	846.5	20625	5	1	12	22.3
16QAM	846.5	20625	5	1	24	22.3
16QAM	846.5	20625	5	12	0	21.5
16QAM	846.5	20625	5	12	7	21.4
16QAM	846.5	20625	5	12	13	21.4
16QAM	846.5	20625	5	25	0	21.5

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	826.5	20425	5	1	0	21.4
64QAM	826.5	20425	5	1	12	21.4
64QAM	826.5	20425	5	1	24	21.4
64QAM	826.5	20425	5	12	0	21.4
64QAM	826.5	20425	5	12	7	21.4
64QAM	826.5	20425	5	12	13	21.4
64QAM	826.5	20425	5	25	0	21.4
64QAM	836.5	20525	5	1	0	21.5
64QAM	836.5	20525	5	1	12	21.5
64QAM	836.5	20525	5	1	24	21.4
64QAM	836.5	20525	5	12	0	21.4
64QAM	836.5	20525	5	12	7	21.4
64QAM	836.5	20525	5	12	13	21.4
64QAM	836.5	20525	5	25	0	21.4
64QAM	846.5	20625	5	1	0	21.7
64QAM	846.5	20625	5	1	12	21.7
64QAM	846.5	20625	5	1	24	21.7
64QAM	846.5	20625	5	12	0	21.7
64QAM	846.5	20625	5	12	7	21.7
64QAM	846.5	20625	5	12	13	21.7
64QAM	846.5	20625	5	25	0	21.5

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	23.2
QPSK	829	20450	10	1	25	23.2
QPSK	829	20450	10	1	49	23.2
QPSK	829	20450	10	25	0	22.3
QPSK	829	20450	10	25	12	22.3
QPSK	829	20450	10	25	25	22.3
QPSK	829	20450	10	50	0	22.2
QPSK	836.5	20525	10	1	0	23.4
QPSK	836.5	20525	10	1	25	23.6
QPSK	836.5	20525	10	1	49	23.6
QPSK	836.5	20525	10	25	0	22.5
QPSK	836.5	20525	10	25	12	22.4
QPSK	836.5	20525	10	25	25	22.5
QPSK	836.5	20525	10	50	0	22.4
QPSK	844	20600	10	1	0	23.6
QPSK	844	20600	10	1	25	23.6
QPSK	844	20600	10	1	49	23.6
QPSK	844	20600	10	25	0	22.5
QPSK	844	20600	10	25	12	22.6
QPSK	844	20600	10	25	25	22.6
QPSK	844	20600	10	50	0	22.6
16QAM	829	20450	10	1	0	22.7
16QAM	829	20450	10	1	25	22.7
16QAM	829	20450	10	1	49	22.7
16QAM	829	20450	10	25	0	21.3
16QAM	829	20450	10	25	12	21.4
16QAM	829	20450	10	25	25	21.3
16QAM	829	20450	10	50	0	21.2
16QAM	836.5	20525	10	1	0	22.5
16QAM	836.5	20525	10	1	25	22.6
16QAM	836.5	20525	10	1	49	22.6
16QAM	836.5	20525	10	25	0	21.4
16QAM	836.5	20525	10	25	12	21.6
16QAM	836.5	20525	10	25	25	21.6
16QAM	836.5	20525	10	50	0	21.5
16QAM	844	20600	10	1	0	22.0
16QAM	844	20600	10	1	25	22.2
16QAM	844	20600	10	1	49	22.2
16QAM	844	20600	10	25	0	21.7
16QAM	844	20600	10	25	12	21.8
16QAM	844	20600	10	25	25	21.8
16QAM	844	20600	10	50	0	21.6

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	829	20450	10	1	0	21.2
64QAM	829	20450	10	1	25	21.3
64QAM	829	20450	10	1	49	21.3
64QAM	829	20450	10	25	0	21.2
64QAM	829	20450	10	25	12	21.3
64QAM	829	20450	10	25	25	21.3
64QAM	829	20450	10	50	0	21.3
64QAM	836.5	20525	10	1	0	21.5
64QAM	836.5	20525	10	1	25	21.5
64QAM	836.5	20525	10	1	49	21.5
64QAM	836.5	20525	10	25	0	21.5
64QAM	836.5	20525	10	25	12	21.5
64QAM	836.5	20525	10	25	25	21.5
64QAM	836.5	20525	10	50	0	21.5
64QAM	844	20600	10	1	0	21.6
64QAM	844	20600	10	1	25	21.6
64QAM	844	20600	10	1	49	21.6
64QAM	844	20600	10	25	0	21.6
64QAM	844	20600	10	25	12	21.6
64QAM	844	20600	10	25	25	21.6
64QAM	844	20600	10	50	0	21.6

LTE Band 7

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2502.5	20775	5	1	0	22.28
QPSK	2502.5	20775	5	1	12	22.31
QPSK	2502.5	20775	5	1	24	22.38
QPSK	2502.5	20775	5	12	0	21.23
QPSK	2502.5	20775	5	12	7	21.28
QPSK	2502.5	20775	5	12	13	21.24
QPSK	2502.5	20775	5	25	0	21.72
QPSK	2535	21100	5	1	0	22.72
QPSK	2535	21100	5	1	12	22.77
QPSK	2535	21100	5	1	24	22.92
QPSK	2535	21100	5	12	0	22.04
QPSK	2535	21100	5	12	7	22.11
QPSK	2535	21100	5	12	13	22.13
QPSK	2535	21100	5	25	0	21.97
QPSK	2567.5	21425	5	1	0	23.15
QPSK	2567.5	21425	5	1	12	23.30
QPSK	2567.5	21425	5	1	24	22.84
QPSK	2567.5	21425	5	12	0	22.29
QPSK	2567.5	21425	5	12	7	22.19
QPSK	2567.5	21425	5	12	13	22.23
QPSK	2567.5	21425	5	25	0	22.29
16QAM	2502.5	20775	5	1	0	21.56
16QAM	2502.5	20775	5	1	12	21.74
16QAM	2502.5	20775	5	1	24	21.71
16QAM	2502.5	20775	5	12	0	20.63
16QAM	2502.5	20775	5	12	7	20.57
16QAM	2502.5	20775	5	12	13	20.67
16QAM	2502.5	20775	5	25	0	21.06
16QAM	2535	21100	5	1	0	21.99
16QAM	2535	21100	5	1	12	22.17
16QAM	2535	21100	5	1	24	22.19
16QAM	2535	21100	5	12	0	21.29
16QAM	2535	21100	5	12	7	21.43
16QAM	2535	21100	5	12	13	21.45
16QAM	2535	21100	5	25	0	21.20
16QAM	2567.5	21425	5	1	0	22.47
16QAM	2567.5	21425	5	1	12	22.74
16QAM	2567.5	21425	5	1	24	22.20
16QAM	2567.5	21425	5	12	0	21.53
16QAM	2567.5	21425	5	12	7	21.48
16QAM	2567.5	21425	5	12	13	21.54
16QAM	2567.5	21425	5	25	0	21.62

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2502.5	20775	5	1	0	21.61
64QAM	2502.5	20775	5	1	12	21.60
64QAM	2502.5	20775	5	1	24	21.57
64QAM	2502.5	20775	5	12	0	20.57
64QAM	2502.5	20775	5	12	7	20.57
64QAM	2502.5	20775	5	12	13	20.55
64QAM	2502.5	20775	5	25	0	20.97
64QAM	2535	21100	5	1	0	21.93
64QAM	2535	21100	5	1	12	22.03
64QAM	2535	21100	5	1	24	22.13
64QAM	2535	21100	5	12	0	21.19
64QAM	2535	21100	5	12	7	21.35
64QAM	2535	21100	5	12	13	21.35
64QAM	2535	21100	5	25	0	21.16
64QAM	2567.5	21425	5	1	0	22.36
64QAM	2567.5	21425	5	1	12	22.65
64QAM	2567.5	21425	5	1	24	22.28
64QAM	2567.5	21425	5	12	0	21.46
64QAM	2567.5	21425	5	12	7	21.41
64QAM	2567.5	21425	5	12	13	21.57
64QAM	2567.5	21425	5	25	0	21.70

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2505	20800	10	1	0	22.17
QPSK	2505	20800	10	1	25	22.34
QPSK	2505	20800	10	1	49	22.37
QPSK	2505	20800	10	25	0	21.29
QPSK	2505	20800	10	25	12	21.23
QPSK	2505	20800	10	25	25	21.22
QPSK	2505	20800	10	50	0	21.79
QPSK	2535	21100	10	1	0	22.71
QPSK	2535	21100	10	1	25	22.85
QPSK	2535	21100	10	1	49	22.78
QPSK	2535	21100	10	25	0	21.97
QPSK	2535	21100	10	25	12	22.09
QPSK	2535	21100	10	25	25	22.16
QPSK	2535	21100	10	50	0	21.88
QPSK	2565	21400	10	1	0	23.23
QPSK	2565	21400	10	1	25	23.34
QPSK	2565	21400	10	1	49	22.99
QPSK	2565	21400	10	25	0	22.33
QPSK	2565	21400	10	25	12	22.26
QPSK	2565	21400	10	25	25	22.27
QPSK	2565	21400	10	50	0	22.35
16QAM	2505	20800	10	1	0	21.62
16QAM	2505	20800	10	1	25	21.76
16QAM	2505	20800	10	1	49	21.75
16QAM	2505	20800	10	25	0	20.67
16QAM	2505	20800	10	25	12	20.66
16QAM	2505	20800	10	25	25	20.64
16QAM	2505	20800	10	50	0	21.12
16QAM	2535	21100	10	1	0	22.01
16QAM	2535	21100	10	1	25	22.12
16QAM	2535	21100	10	1	49	22.25
16QAM	2535	21100	10	25	0	21.30
16QAM	2535	21100	10	25	12	21.33
16QAM	2535	21100	10	25	25	21.48
16QAM	2535	21100	10	50	0	21.28
16QAM	2565	21400	10	1	0	22.57
16QAM	2565	21400	10	1	25	22.66
16QAM	2565	21400	10	1	49	22.29
16QAM	2565	21400	10	25	0	21.66
16QAM	2565	21400	10	25	12	21.48
16QAM	2565	21400	10	25	25	21.53
16QAM	2565	21400	10	50	0	21.69

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2505	20800	10	1	0	21.48
64QAM	2505	20800	10	1	25	21.52
64QAM	2505	20800	10	1	49	21.64
64QAM	2505	20800	10	25	0	20.59
64QAM	2505	20800	10	25	12	20.52
64QAM	2505	20800	10	25	25	20.58
64QAM	2505	20800	10	50	0	20.95
64QAM	2535	21100	10	1	0	21.90
64QAM	2535	21100	10	1	25	22.07
64QAM	2535	21100	10	1	49	22.24
64QAM	2535	21100	10	25	0	21.25
64QAM	2535	21100	10	25	12	21.33
64QAM	2535	21100	10	25	25	21.30
64QAM	2535	21100	10	50	0	21.17
64QAM	2565	21400	10	1	0	22.46
64QAM	2565	21400	10	1	25	22.54
64QAM	2565	21400	10	1	49	22.22
64QAM	2565	21400	10	25	0	21.49
64QAM	2565	21400	10	25	12	21.45
64QAM	2565	21400	10	25	25	21.48
64QAM	2565	21400	10	50	0	21.59

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2507.5	20825	15	1	0	22.18
QPSK	2507.5	20825	15	1	37	22.41
QPSK	2507.5	20825	15	1	74	22.34
QPSK	2507.5	20825	15	36	0	21.25
QPSK	2507.5	20825	15	36	29	21.19
QPSK	2507.5	20825	15	36	30	21.22
QPSK	2507.5	20825	15	75	0	21.68
QPSK	2535	21100	15	1	0	22.74
QPSK	2535	21100	15	1	37	22.82
QPSK	2535	21100	15	1	74	22.78
QPSK	2535	21100	15	36	0	21.96
QPSK	2535	21100	15	36	29	21.98
QPSK	2535	21100	15	36	30	22.06
QPSK	2535	21100	15	75	0	21.91
QPSK	2562.5	21375	15	1	0	23.15
QPSK	2562.5	21375	15	1	37	23.36
QPSK	2562.5	21375	15	1	74	22.89
QPSK	2562.5	21375	15	36	0	22.26
QPSK	2562.5	21375	15	36	29	22.23
QPSK	2562.5	21375	15	36	30	22.26
QPSK	2562.5	21375	15	75	0	22.28
16QAM	2507.5	20825	15	1	0	21.51
16QAM	2507.5	20825	15	1	37	21.70
16QAM	2507.5	20825	15	1	74	21.75
16QAM	2507.5	20825	15	36	0	20.65
16QAM	2507.5	20825	15	36	29	20.56
16QAM	2507.5	20825	15	36	30	20.56
16QAM	2507.5	20825	15	75	0	21.00
16QAM	2535	21100	15	1	0	22.07
16QAM	2535	21100	15	1	37	22.10
16QAM	2535	21100	15	1	74	22.12
16QAM	2535	21100	15	36	0	21.32
16QAM	2535	21100	15	36	29	21.32
16QAM	2535	21100	15	36	30	21.37
16QAM	2535	21100	15	75	0	21.33
16QAM	2562.5	21375	15	1	0	22.48
16QAM	2562.5	21375	15	1	37	22.62
16QAM	2562.5	21375	15	1	74	22.29
16QAM	2562.5	21375	15	36	0	21.67
16QAM	2562.5	21375	15	36	29	21.61
16QAM	2562.5	21375	15	36	30	21.55
16QAM	2562.5	21375	15	75	0	21.67

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2507.5	20825	15	1	0	21.59
64QAM	2507.5	20825	15	1	37	21.49
64QAM	2507.5	20825	15	1	74	21.64
64QAM	2507.5	20825	15	36	0	20.59
64QAM	2507.5	20825	15	36	29	20.61
64QAM	2507.5	20825	15	36	30	20.53
64QAM	2507.5	20825	15	75	0	21.01
64QAM	2535	21100	15	1	0	21.97
64QAM	2535	21100	15	1	37	22.05
64QAM	2535	21100	15	1	74	22.12
64QAM	2535	21100	15	36	0	21.26
64QAM	2535	21100	15	36	29	21.38
64QAM	2535	21100	15	36	30	21.32
64QAM	2535	21100	15	75	0	21.08
64QAM	2562.5	21375	15	1	0	22.37
64QAM	2562.5	21375	15	1	37	22.59
64QAM	2562.5	21375	15	1	74	22.26
64QAM	2562.5	21375	15	36	0	21.50
64QAM	2562.5	21375	15	36	29	21.48
64QAM	2562.5	21375	15	36	30	21.56
64QAM	2562.5	21375	15	75	0	21.58

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2510	20850	20	1	0	22.32
QPSK	2510	20850	20	1	49	22.42
QPSK	2510	20850	20	1	99	22.43
QPSK	2510	20850	20	50	0	21.35
QPSK	2510	20850	20	50	24	21.32
QPSK	2510	20850	20	50	50	21.34
QPSK	2510	20850	20	100	0	21.80
QPSK	2535	21100	20	1	0	22.78
QPSK	2535	21100	20	1	49	22.91
QPSK	2535	21100	20	1	99	22.93
QPSK	2535	21100	20	50	0	22.09
QPSK	2535	21100	20	50	24	22.12
QPSK	2535	21100	20	50	50	22.17
QPSK	2535	21100	20	100	0	21.99
QPSK	2560	21350	20	1	0	23.28
QPSK	2560	21350	20	1	49	23.43
QPSK	2560	21350	20	1	99	22.99
QPSK	2560	21350	20	50	0	22.33
QPSK	2560	21350	20	50	24	22.27
QPSK	2560	21350	20	50	50	22.31
QPSK	2560	21350	20	100	0	22.41
16QAM	2510	20850	20	1	0	21.66
16QAM	2510	20850	20	1	49	21.76
16QAM	2510	20850	20	1	99	21.77
16QAM	2510	20850	20	50	0	20.69
16QAM	2510	20850	20	50	24	20.66
16QAM	2510	20850	20	50	50	20.68
16QAM	2510	20850	20	100	0	21.14
16QAM	2535	21100	20	1	0	22.12
16QAM	2535	21100	20	1	49	22.25
16QAM	2535	21100	20	1	99	22.27
16QAM	2535	21100	20	50	0	21.43
16QAM	2535	21100	20	50	24	21.46
16QAM	2535	21100	20	50	50	21.51
16QAM	2535	21100	20	100	0	21.33
16QAM	2560	21350	20	1	0	22.62
16QAM	2560	21350	20	1	49	22.77
16QAM	2560	21350	20	1	99	22.33
16QAM	2560	21350	20	50	0	21.67
16QAM	2560	21350	20	50	24	21.61
16QAM	2560	21350	20	50	50	21.65
16QAM	2560	21350	20	100	0	21.75

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2510	20850	20	1	0	21.61
64QAM	2510	20850	20	1	49	21.61
64QAM	2510	20850	20	1	99	21.71
64QAM	2510	20850	20	50	0	20.65
64QAM	2510	20850	20	50	24	20.61
64QAM	2510	20850	20	50	50	20.59
64QAM	2510	20850	20	100	0	21.05
64QAM	2535	21100	20	1	0	22.03
64QAM	2535	21100	20	1	49	22.13
64QAM	2535	21100	20	1	99	22.24
64QAM	2535	21100	20	50	0	21.32
64QAM	2535	21100	20	50	24	21.40
64QAM	2535	21100	20	50	50	21.38
64QAM	2535	21100	20	100	0	21.20
64QAM	2560	21350	20	1	0	22.50
64QAM	2560	21350	20	1	49	22.66
64QAM	2560	21350	20	1	99	22.29
64QAM	2560	21350	20	50	0	21.56
64QAM	2560	21350	20	50	24	21.50
64QAM	2560	21350	20	50	50	21.60
64QAM	2560	21350	20	100	0	21.71

Reduced power with receive on or Hotspot on
LTE Band 7

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2502.5	20775	5	1	0	19.28
QPSK	2502.5	20775	5	1	12	19.31
QPSK	2502.5	20775	5	1	24	19.38
QPSK	2502.5	20775	5	12	0	18.23
QPSK	2502.5	20775	5	12	7	18.28
QPSK	2502.5	20775	5	12	13	18.24
QPSK	2502.5	20775	5	25	0	18.72
QPSK	2535	21100	5	1	0	19.72
QPSK	2535	21100	5	1	12	19.77
QPSK	2535	21100	5	1	24	19.92
QPSK	2535	21100	5	12	0	19.04
QPSK	2535	21100	5	12	7	19.11
QPSK	2535	21100	5	12	13	19.13
QPSK	2535	21100	5	25	0	18.97
QPSK	2567.5	21425	5	1	0	20.15
QPSK	2567.5	21425	5	1	12	20.30
QPSK	2567.5	21425	5	1	24	19.84
QPSK	2567.5	21425	5	12	0	19.29
QPSK	2567.5	21425	5	12	7	19.19
QPSK	2567.5	21425	5	12	13	19.23
QPSK	2567.5	21425	5	25	0	19.29
16QAM	2502.5	20775	5	1	0	18.56
16QAM	2502.5	20775	5	1	12	18.74
16QAM	2502.5	20775	5	1	24	18.71
16QAM	2502.5	20775	5	12	0	17.63
16QAM	2502.5	20775	5	12	7	17.57
16QAM	2502.5	20775	5	12	13	17.67
16QAM	2502.5	20775	5	25	0	18.06
16QAM	2535	21100	5	1	0	18.99
16QAM	2535	21100	5	1	12	19.17
16QAM	2535	21100	5	1	24	19.19
16QAM	2535	21100	5	12	0	18.29
16QAM	2535	21100	5	12	7	18.43
16QAM	2535	21100	5	12	13	18.45
16QAM	2535	21100	5	25	0	18.20
16QAM	2567.5	21425	5	1	0	19.47
16QAM	2567.5	21425	5	1	12	19.74
16QAM	2567.5	21425	5	1	24	19.20
16QAM	2567.5	21425	5	12	0	18.53
16QAM	2567.5	21425	5	12	7	18.48
16QAM	2567.5	21425	5	12	13	18.54
16QAM	2567.5	21425	5	25	0	18.62

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2502.5	20775	5	1	0	18.61
64QAM	2502.5	20775	5	1	12	18.60
64QAM	2502.5	20775	5	1	24	18.57
64QAM	2502.5	20775	5	12	0	17.57
64QAM	2502.5	20775	5	12	7	17.57
64QAM	2502.5	20775	5	12	13	17.55
64QAM	2502.5	20775	5	25	0	17.97
64QAM	2535	21100	5	1	0	18.93
64QAM	2535	21100	5	1	12	19.03
64QAM	2535	21100	5	1	24	19.13
64QAM	2535	21100	5	12	0	18.19
64QAM	2535	21100	5	12	7	18.35
64QAM	2535	21100	5	12	13	18.35
64QAM	2535	21100	5	25	0	18.16
64QAM	2567.5	21425	5	1	0	19.36
64QAM	2567.5	21425	5	1	12	19.65
64QAM	2567.5	21425	5	1	24	19.28
64QAM	2567.5	21425	5	12	0	18.46
64QAM	2567.5	21425	5	12	7	18.41
64QAM	2567.5	21425	5	12	13	18.57
64QAM	2567.5	21425	5	25	0	18.70

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2505	20800	10	1	0	19.17
QPSK	2505	20800	10	1	25	19.34
QPSK	2505	20800	10	1	49	19.37
QPSK	2505	20800	10	25	0	18.29
QPSK	2505	20800	10	25	12	18.23
QPSK	2505	20800	10	25	25	18.22
QPSK	2505	20800	10	50	0	18.79
QPSK	2535	21100	10	1	0	19.71
QPSK	2535	21100	10	1	25	19.85
QPSK	2535	21100	10	1	49	19.78
QPSK	2535	21100	10	25	0	18.97
QPSK	2535	21100	10	25	12	19.09
QPSK	2535	21100	10	25	25	19.16
QPSK	2535	21100	10	50	0	18.88
QPSK	2565	21400	10	1	0	20.23
QPSK	2565	21400	10	1	25	20.34
QPSK	2565	21400	10	1	49	19.99
QPSK	2565	21400	10	25	0	19.33
QPSK	2565	21400	10	25	12	19.26
QPSK	2565	21400	10	25	25	19.27
QPSK	2565	21400	10	50	0	19.35
16QAM	2505	20800	10	1	0	18.62
16QAM	2505	20800	10	1	25	18.76
16QAM	2505	20800	10	1	49	18.75
16QAM	2505	20800	10	25	0	17.67
16QAM	2505	20800	10	25	12	17.66
16QAM	2505	20800	10	25	25	17.64
16QAM	2505	20800	10	50	0	18.12
16QAM	2535	21100	10	1	0	19.01
16QAM	2535	21100	10	1	25	19.12
16QAM	2535	21100	10	1	49	19.25
16QAM	2535	21100	10	25	0	18.30
16QAM	2535	21100	10	25	12	18.33
16QAM	2535	21100	10	25	25	18.48
16QAM	2535	21100	10	50	0	18.28
16QAM	2565	21400	10	1	0	19.57
16QAM	2565	21400	10	1	25	19.66
16QAM	2565	21400	10	1	49	19.29
16QAM	2565	21400	10	25	0	18.66
16QAM	2565	21400	10	25	12	18.48
16QAM	2565	21400	10	25	25	18.53
16QAM	2565	21400	10	50	0	18.69

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2505	20800	10	1	0	18.48
64QAM	2505	20800	10	1	25	18.52
64QAM	2505	20800	10	1	49	18.64
64QAM	2505	20800	10	25	0	17.59
64QAM	2505	20800	10	25	12	17.52
64QAM	2505	20800	10	25	25	17.58
64QAM	2505	20800	10	50	0	17.95
64QAM	2535	21100	10	1	0	18.90
64QAM	2535	21100	10	1	25	19.07
64QAM	2535	21100	10	1	49	19.24
64QAM	2535	21100	10	25	0	18.25
64QAM	2535	21100	10	25	12	18.33
64QAM	2535	21100	10	25	25	18.30
64QAM	2535	21100	10	50	0	18.17
64QAM	2565	21400	10	1	0	19.46
64QAM	2565	21400	10	1	25	19.54
64QAM	2565	21400	10	1	49	19.22
64QAM	2565	21400	10	25	0	18.49
64QAM	2565	21400	10	25	12	18.45
64QAM	2565	21400	10	25	25	18.48
64QAM	2565	21400	10	50	0	18.59

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2507.5	20825	15	1	0	19.18
QPSK	2507.5	20825	15	1	37	19.41
QPSK	2507.5	20825	15	1	74	19.34
QPSK	2507.5	20825	15	36	0	18.25
QPSK	2507.5	20825	15	36	29	18.19
QPSK	2507.5	20825	15	36	30	18.22
QPSK	2507.5	20825	15	75	0	18.68
QPSK	2535	21100	15	1	0	19.74
QPSK	2535	21100	15	1	37	19.82
QPSK	2535	21100	15	1	74	19.78
QPSK	2535	21100	15	36	0	18.96
QPSK	2535	21100	15	36	29	18.98
QPSK	2535	21100	15	36	30	19.06
QPSK	2535	21100	15	75	0	18.91
QPSK	2562.5	21375	15	1	0	20.15
QPSK	2562.5	21375	15	1	37	20.36
QPSK	2562.5	21375	15	1	74	19.89
QPSK	2562.5	21375	15	36	0	19.26
QPSK	2562.5	21375	15	36	29	19.23
QPSK	2562.5	21375	15	36	30	19.26
QPSK	2562.5	21375	15	75	0	19.28
16QAM	2507.5	20825	15	1	0	18.51
16QAM	2507.5	20825	15	1	37	18.70
16QAM	2507.5	20825	15	1	74	18.75
16QAM	2507.5	20825	15	36	0	17.65
16QAM	2507.5	20825	15	36	29	17.56
16QAM	2507.5	20825	15	36	30	17.56
16QAM	2507.5	20825	15	75	0	18.00
16QAM	2535	21100	15	1	0	19.07
16QAM	2535	21100	15	1	37	19.10
16QAM	2535	21100	15	1	74	19.12
16QAM	2535	21100	15	36	0	18.32
16QAM	2535	21100	15	36	29	18.32
16QAM	2535	21100	15	36	30	18.37
16QAM	2535	21100	15	75	0	18.33
16QAM	2562.5	21375	15	1	0	19.48
16QAM	2562.5	21375	15	1	37	19.62
16QAM	2562.5	21375	15	1	74	19.29
16QAM	2562.5	21375	15	36	0	18.67
16QAM	2562.5	21375	15	36	29	18.61
16QAM	2562.5	21375	15	36	30	18.55
16QAM	2562.5	21375	15	75	0	18.67

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2507.5	20825	15	1	0	18.59
64QAM	2507.5	20825	15	1	37	18.49
64QAM	2507.5	20825	15	1	74	18.64
64QAM	2507.5	20825	15	36	0	17.59
64QAM	2507.5	20825	15	36	29	17.61
64QAM	2507.5	20825	15	36	30	17.53
64QAM	2507.5	20825	15	75	0	18.01
64QAM	2535	21100	15	1	0	18.97
64QAM	2535	21100	15	1	37	19.05
64QAM	2535	21100	15	1	74	19.12
64QAM	2535	21100	15	36	0	18.26
64QAM	2535	21100	15	36	29	18.38
64QAM	2535	21100	15	36	30	18.32
64QAM	2535	21100	15	75	0	18.08
64QAM	2562.5	21375	15	1	0	19.37
64QAM	2562.5	21375	15	1	37	19.59
64QAM	2562.5	21375	15	1	74	19.26
64QAM	2562.5	21375	15	36	0	18.50
64QAM	2562.5	21375	15	36	29	18.48
64QAM	2562.5	21375	15	36	30	18.56
64QAM	2562.5	21375	15	75	0	18.58

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2510	20850	20	1	0	19.32
QPSK	2510	20850	20	1	49	19.42
QPSK	2510	20850	20	1	99	19.43
QPSK	2510	20850	20	50	0	18.35
QPSK	2510	20850	20	50	24	18.32
QPSK	2510	20850	20	50	50	18.34
QPSK	2510	20850	20	100	0	18.80
QPSK	2535	21100	20	1	0	19.78
QPSK	2535	21100	20	1	49	19.91
QPSK	2535	21100	20	1	99	19.93
QPSK	2535	21100	20	50	0	19.09
QPSK	2535	21100	20	50	24	19.12
QPSK	2535	21100	20	50	50	19.17
QPSK	2535	21100	20	100	0	18.99
QPSK	2560	21350	20	1	0	20.28
QPSK	2560	21350	20	1	49	20.43
QPSK	2560	21350	20	1	99	19.99
QPSK	2560	21350	20	50	0	19.33
QPSK	2560	21350	20	50	24	19.27
QPSK	2560	21350	20	50	50	19.31
QPSK	2560	21350	20	100	0	19.41
16QAM	2510	20850	20	1	0	18.66
16QAM	2510	20850	20	1	49	18.76
16QAM	2510	20850	20	1	99	18.77
16QAM	2510	20850	20	50	0	17.69
16QAM	2510	20850	20	50	24	17.66
16QAM	2510	20850	20	50	50	17.68
16QAM	2510	20850	20	100	0	18.14
16QAM	2535	21100	20	1	0	19.12
16QAM	2535	21100	20	1	49	19.25
16QAM	2535	21100	20	1	99	19.27
16QAM	2535	21100	20	50	0	18.43
16QAM	2535	21100	20	50	24	18.46
16QAM	2535	21100	20	50	50	18.51
16QAM	2535	21100	20	100	0	18.33
16QAM	2560	21350	20	1	0	19.62
16QAM	2560	21350	20	1	49	19.77
16QAM	2560	21350	20	1	99	19.33
16QAM	2560	21350	20	50	0	18.67
16QAM	2560	21350	20	50	24	18.61
16QAM	2560	21350	20	50	50	18.65
16QAM	2560	21350	20	100	0	18.75

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2510	20850	20	1	0	18.61
64QAM	2510	20850	20	1	49	18.61
64QAM	2510	20850	20	1	99	18.71
64QAM	2510	20850	20	50	0	17.65
64QAM	2510	20850	20	50	24	17.61
64QAM	2510	20850	20	50	50	17.59
64QAM	2510	20850	20	100	0	18.05
64QAM	2535	21100	20	1	0	19.03
64QAM	2535	21100	20	1	49	19.13
64QAM	2535	21100	20	1	99	19.24
64QAM	2535	21100	20	50	0	18.32
64QAM	2535	21100	20	50	24	18.40
64QAM	2535	21100	20	50	50	18.38
64QAM	2535	21100	20	100	0	18.20
64QAM	2560	21350	20	1	0	19.50
64QAM	2560	21350	20	1	49	19.66
64QAM	2560	21350	20	1	99	19.29
64QAM	2560	21350	20	50	0	18.56
64QAM	2560	21350	20	50	24	18.50
64QAM	2560	21350	20	50	50	18.60
64QAM	2560	21350	20	100	0	18.71

LTE Band CA_7C

OUTPUT POWER FOR LTE BAND 7 (10MHz + 20.0MHz)

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted power (dBm)
				Size	Offset	Size	Offset	
10MHz /20MHz	2505.5	2519.9	QPSK	1	49	1	0	19.30
				50	0	100	0	16.34
			16QAM	1	49	1	0	17.97
				50	0	100	0	14.80
			64QAM	1	49	1	0	17.86
				50	0	100	0	14.72
	2525.6	2540	QPSK	1	49	1	0	19.27
				50	0	100	0	16.40
			16QAM	1	49	1	0	17.87
				50	0	100	0	14.86
			64QAM	1	49	1	0	17.86
				50	0	100	0	14.79
	2545.6	2560	QPSK	1	49	1	0	18.81
				50	0	100	0	15.17
			16QAM	1	49	1	0	17.37
				50	0	100	0	13.49
			64QAM	1	49	1	0	17.32
				50	0	100	0	13.52

OUTPUT POWER FOR LTE BAND 7 (20MHz + 10MHz)

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted power (dBm)
				Size	Offset	Size	Offset	
20MHz/10MHz	2510	2524.4	QPSK	1	99	1	0	19.24
				100	0	50	0	16.45
			16QAM	1	99	1	0	17.97
				100	0	50	0	14.75
			64QAM	1	99	1	0	17.80
				100	0	50	0	14.71
	2530.1	2544.5	QPSK	1	99	1	0	19.18
				100	0	50	0	16.52
			16QAM	1	99	1	0	18.01
				100	0	50	0	14.83
			64QAM	1	99	1	0	17.91
				100	0	50	0	14.83
	2550.1	2564.5	QPSK	1	99	1	0	18.77
				100	0	50	0	15.13
			16QAM	1	99	1	0	17.43
				100	0	50	0	13.57
			64QAM	1	99	1	0	17.33
				100	0	50	0	13.44

OUTPUT POWER FOR LTE BAND 7 (15MHz + 10MHz)

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted power (dBm)
				Size	Offset	Size	Offset	
15MHz/10MHz	2507.5	2519.5	QPSK	1	49	1	0	19.22
				50	0	75	0	16.38
			16QAM	1	49	1	0	17.97
				50	0	75	0	14.79
			64QAM	1	49	1	0	17.76
				50	0	75	0	14.79
	2530.1	2542.1	QPSK	1	49	1	0	19.17
				50	0	75	0	16.49
			16QAM	1	49	1	0	17.91
				50	0	75	0	14.78
			64QAM	1	49	1	0	17.95
				50	0	75	0	14.77
	2552.7	2564.7	QPSK	1	49	1	0	18.76
				50	0	75	0	15.19
			16QAM	1	49	1	0	17.39
				50	0	75	0	13.48
			64QAM	1	49	1	0	17.42
				50	0	75	0	13.56

OUTPUT POWER FOR LTE BAND 7 (15MHz + 15MHz)

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted power (dBm)
				Size	Offset	Size	Offset	
15MHz/15MHz	2507.5	2522.5	QPSK	1	74	1	0	19.21
				75	0	75	0	16.44
			16QAM	1	74	1	0	17.97
				75	0	75	0	14.78
			64QAM	1	74	1	0	17.78
				75	0	75	0	14.74
	2527.5	2542.5	QPSK	1	74	1	0	19.22
				75	0	75	0	16.44
			16QAM	1	74	1	0	18.00
				75	0	75	0	14.83
			64QAM	1	74	1	0	17.87
				75	0	75	0	14.82
	2547.5	2562.5	QPSK	1	74	1	0	18.80
				75	0	75	0	15.23
			16QAM	1	74	1	0	17.35
				75	0	75	0	13.55
			64QAM	1	74	1	0	17.31
				75	0	75	0	13.52

OUTPUT POWER FOR LTE BAND 7 (15MHz + 20MHz)

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted power (dBm)
				Size	Offset	Size	Offset	
15MHz/20MHz	2507.8	2524.9	QPSK	1	74	1	0	19.19
				75	0	100	0	16.42
			16QAM	1	74	1	0	17.95
				75	0	100	0	14.84
			64QAM	1	74	1	0	17.78
				75	0	100	0	14.76
	2525.3	2542.4	QPSK	1	74	1	0	19.23
				75	0	100	0	16.41
			16QAM	1	74	1	0	17.94
				75	0	100	0	14.79
			64QAM	1	74	1	0	17.93
				75	0	100	0	14.73
	2542.9	2560	QPSK	1	74	1	0	18.83
				75	0	100	0	15.13
			16QAM	1	74	1	0	17.39
				75	0	100	0	13.51
			64QAM	1	74	1	0	17.30
				75	0	100	0	13.54

OUTPUT POWER FOR LTE BAND 7 (20MHz + 15MHz)

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted power (dBm)
				Size	Offset	Size	Offset	
20MHz/15MHz	2510	2527.1	QPSK	1	99	1	0	19.26
				100	0	75	0	16.37
			16QAM	1	99	1	0	17.93
				100	0	75	0	14.77
			64QAM	1	99	1	0	17.82
				100	0	75	0	14.78
	2527.6	2544.7	QPSK	1	99	1	0	19.20
				100	0	75	0	16.38
			16QAM	1	99	1	0	18.00
				100	0	75	0	14.86
			64QAM	1	99	1	0	17.95
				100	0	75	0	14.78
	2545.1	2562.2	QPSK	1	99	1	0	18.85
				100	0	75	0	15.18
			16QAM	1	99	1	0	17.40
				100	0	75	0	13.58
			64QAM	1	99	1	0	17.36
				100	0	75	0	13.51

OUTPUT POWER FOR LTE BAND 7 (20MHz + 20MHz)

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted power (dBm)
				Size	Offset	Size	Offset	
20MHz/20MHz	2510	2529.8	QPSK	1	99	1	0	19.31
				100	0	100	0	16.47
			16QAM	1	99	1	0	17.98
				100	0	100	0	14.86
			64QAM	1	99	1	0	17.87
				100	0	100	0	14.85
	2525.1	2544.9	QPSK	1	99	1	0	19.31
				100	0	100	0	16.53
			16QAM	1	99	1	0	18.01
				100	0	100	0	14.93
			64QAM	1	99	1	0	17.98
				100	0	100	0	14.87
	2540.2	2560	QPSK	1	99	1	0	18.88
				100	0	100	0	15.26
			16QAM	1	99	1	0	17.49
				100	0	100	0	13.63
			64QAM	1	99	1	0	17.42
				100	0	100	0	19.31

LTE Band 12

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	699.7	23017	1.4	1	0	23.4
QPSK	699.7	23017	1.4	1	3	23.4
QPSK	699.7	23017	1.4	1	5	23.3
QPSK	699.7	23017	1.4	3	0	23.5
QPSK	699.7	23017	1.4	3	1	23.5
QPSK	699.7	23017	1.4	3	3	23.4
QPSK	699.7	23017	1.4	6	0	22.3
QPSK	707.5	23095	1.4	1	0	23.4
QPSK	707.5	23095	1.4	1	3	23.4
QPSK	707.5	23095	1.4	1	5	23.4
QPSK	707.5	23095	1.4	3	0	23.5
QPSK	707.5	23095	1.4	3	1	23.6
QPSK	707.5	23095	1.4	3	3	23.6
QPSK	707.5	23095	1.4	6	0	22.5
QPSK	715.3	23173	1.4	1	0	23.7
QPSK	715.3	23173	1.4	1	3	23.7
QPSK	715.3	23173	1.4	1	5	23.7
QPSK	715.3	23173	1.4	3	0	23.6
QPSK	715.3	23173	1.4	3	1	23.6
QPSK	715.3	23173	1.4	3	3	23.6
QPSK	715.3	23173	1.4	6	0	22.5
16QAM	699.7	23017	1.4	1	0	22.9
16QAM	699.7	23017	1.4	1	3	22.9
16QAM	699.7	23017	1.4	1	5	22.9
16QAM	699.7	23017	1.4	3	0	22.6
16QAM	699.7	23017	1.4	3	1	22.6
16QAM	699.7	23017	1.4	3	3	22.7
16QAM	699.7	23017	1.4	6	0	21.6
16QAM	707.5	23095	1.4	1	0	23.0
16QAM	707.5	23095	1.4	1	3	23.2
16QAM	707.5	23095	1.4	1	5	23.1
16QAM	707.5	23095	1.4	3	0	22.4
16QAM	707.5	23095	1.4	3	1	22.4
16QAM	707.5	23095	1.4	3	3	22.4
16QAM	707.5	23095	1.4	6	0	21.6
16QAM	715.3	23173	1.4	1	0	22.4
16QAM	715.3	23173	1.4	1	3	22.3
16QAM	715.3	23173	1.4	1	5	22.3
16QAM	715.3	23173	1.4	3	0	22.3
16QAM	715.3	23173	1.4	3	1	22.3
16QAM	715.3	23173	1.4	3	3	22.3
16QAM	715.3	23173	1.4	6	0	21.6

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	699.7	23017	1.4	1	0	21.6
64QAM	699.7	23017	1.4	1	3	21.5
64QAM	699.7	23017	1.4	1	5	21.5
64QAM	699.7	23017	1.4	3	0	21.5
64QAM	699.7	23017	1.4	3	1	21.5
64QAM	699.7	23017	1.4	3	3	21.5
64QAM	699.7	23017	1.4	6	0	21.4
64QAM	707.5	23095	1.4	1	0	21.6
64QAM	707.5	23095	1.4	1	3	21.6
64QAM	707.5	23095	1.4	1	5	21.5
64QAM	707.5	23095	1.4	3	0	21.6
64QAM	707.5	23095	1.4	3	1	21.6
64QAM	707.5	23095	1.4	3	3	21.6
64QAM	707.5	23095	1.4	6	0	21.6
64QAM	715.3	23173	1.4	1	0	21.6
64QAM	715.3	23173	1.4	1	3	21.6
64QAM	715.3	23173	1.4	1	5	21.6
64QAM	715.3	23173	1.4	3	0	21.6
64QAM	715.3	23173	1.4	3	1	21.6
64QAM	715.3	23173	1.4	3	3	21.6
64QAM	715.3	23173	1.4	6	0	21.6

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	700.5	23025	3	1	0	23.4
QPSK	700.5	23025	3	1	8	23.4
QPSK	700.5	23025	3	1	14	23.4
QPSK	700.5	23025	3	8	0	22.4
QPSK	700.5	23025	3	8	4	22.4
QPSK	700.5	23025	3	8	7	22.4
QPSK	700.5	23025	3	15	0	22.4
QPSK	707.5	23095	3	1	0	23.5
QPSK	707.5	23095	3	1	8	23.5
QPSK	707.5	23095	3	1	14	23.5
QPSK	707.5	23095	3	8	0	22.5
QPSK	707.5	23095	3	8	4	22.6
QPSK	707.5	23095	3	8	7	22.6
QPSK	707.5	23095	3	15	0	22.6
QPSK	714.5	23165	3	1	0	23.8
QPSK	714.5	23165	3	1	8	23.7
QPSK	714.5	23165	3	1	14	23.7
QPSK	714.5	23165	3	8	0	22.6
QPSK	714.5	23165	3	8	4	22.6
QPSK	714.5	23165	3	8	7	22.6
QPSK	714.5	23165	3	15	0	22.6
16QAM	700.5	23025	3	1	0	22.7
16QAM	700.5	23025	3	1	8	22.8
16QAM	700.5	23025	3	1	14	22.7
16QAM	700.5	23025	3	8	0	21.7
16QAM	700.5	23025	3	8	4	21.8
16QAM	700.5	23025	3	8	7	21.8
16QAM	700.5	23025	3	15	0	21.6
16QAM	707.5	23095	3	1	0	22.9
16QAM	707.5	23095	3	1	8	22.8
16QAM	707.5	23095	3	1	14	22.6
16QAM	707.5	23095	3	8	0	21.6
16QAM	707.5	23095	3	8	4	21.7
16QAM	707.5	23095	3	8	7	21.7
16QAM	707.5	23095	3	15	0	21.7
16QAM	714.5	23165	3	1	0	22.2
16QAM	714.5	23165	3	1	8	22.2
16QAM	714.5	23165	3	1	14	22.2
16QAM	714.5	23165	3	8	0	21.6
16QAM	714.5	23165	3	8	4	21.7
16QAM	714.5	23165	3	8	7	21.7
16QAM	714.5	23165	3	15	0	21.6

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	700.5	23025	3	1	0	21.5
64QAM	700.5	23025	3	1	8	21.4
64QAM	700.5	23025	3	1	14	21.6
64QAM	700.5	23025	3	8	0	21.6
64QAM	700.5	23025	3	8	4	21.4
64QAM	700.5	23025	3	8	7	21.6
64QAM	700.5	23025	3	15	0	21.5
64QAM	707.5	23095	3	1	0	21.7
64QAM	707.5	23095	3	1	8	21.6
64QAM	707.5	23095	3	1	14	21.6
64QAM	707.5	23095	3	8	0	21.6
64QAM	707.5	23095	3	8	4	21.6
64QAM	707.5	23095	3	8	7	21.5
64QAM	707.5	23095	3	15	0	21.6
64QAM	714.5	23165	3	1	0	21.6
64QAM	714.5	23165	3	1	8	21.6
64QAM	714.5	23165	3	1	14	21.6
64QAM	714.5	23165	3	8	0	21.6
64QAM	714.5	23165	3	8	4	21.6
64QAM	714.5	23165	3	8	7	21.6
64QAM	714.5	23165	3	15	0	21.6

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	701.5	23035	5	1	0	23.6
QPSK	701.5	23035	5	1	12	23.5
QPSK	701.5	23035	5	1	24	23.5
QPSK	701.5	23035	5	12	0	22.5
QPSK	701.5	23035	5	12	7	22.5
QPSK	701.5	23035	5	12	13	22.5
QPSK	701.5	23035	5	25	0	22.4
QPSK	707.5	23095	5	1	0	23.6
QPSK	707.5	23095	5	1	12	23.5
QPSK	707.5	23095	5	1	24	23.5
QPSK	707.5	23095	5	12	0	22.7
QPSK	707.5	23095	5	12	7	22.6
QPSK	707.5	23095	5	12	13	22.6
QPSK	707.5	23095	5	25	0	22.7
QPSK	713.5	23155	5	1	0	23.5
QPSK	713.5	23155	5	1	12	23.3
QPSK	713.5	23155	5	1	24	23.4
QPSK	713.5	23155	5	12	0	22.6
QPSK	713.5	23155	5	12	7	22.6
QPSK	713.5	23155	5	12	13	22.6
QPSK	713.5	23155	5	25	0	22.6
16QAM	701.5	23035	5	1	0	21.7
16QAM	701.5	23035	5	1	12	21.9
16QAM	701.5	23035	5	1	24	21.9
16QAM	701.5	23035	5	12	0	21.5
16QAM	701.5	23035	5	12	7	21.5
16QAM	701.5	23035	5	12	13	21.5
16QAM	701.5	23035	5	25	0	21.6
16QAM	707.5	23095	5	1	0	22.4
16QAM	707.5	23095	5	1	12	22.3
16QAM	707.5	23095	5	1	24	22.3
16QAM	707.5	23095	5	12	0	21.6
16QAM	707.5	23095	5	12	7	21.5
16QAM	707.5	23095	5	12	13	21.5
16QAM	707.5	23095	5	25	0	21.5
16QAM	713.5	23155	5	1	0	22.1
16QAM	713.5	23155	5	1	12	22.2
16QAM	713.5	23155	5	1	24	22.6
16QAM	713.5	23155	5	12	0	21.6
16QAM	713.5	23155	5	12	7	21.5
16QAM	713.5	23155	5	12	13	21.5
16QAM	713.5	23155	5	25	0	21.7

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	701.5	23035	5	1	0	21.6
64QAM	701.5	23035	5	1	12	21.6
64QAM	701.5	23035	5	1	24	21.6
64QAM	701.5	23035	5	12	0	21.6
64QAM	701.5	23035	5	12	7	21.6
64QAM	701.5	23035	5	12	13	21.6
64QAM	701.5	23035	5	25	0	21.6
64QAM	707.5	23095	5	1	0	21.5
64QAM	707.5	23095	5	1	12	21.5
64QAM	707.5	23095	5	1	24	21.5
64QAM	707.5	23095	5	12	0	21.5
64QAM	707.5	23095	5	12	7	21.5
64QAM	707.5	23095	5	12	13	21.5
64QAM	707.5	23095	5	25	0	21.5
64QAM	713.5	23155	5	1	0	21.7
64QAM	713.5	23155	5	1	12	21.7
64QAM	713.5	23155	5	1	24	21.7
64QAM	713.5	23155	5	12	0	21.5
64QAM	713.5	23155	5	12	7	21.5
64QAM	713.5	23155	5	12	13	21.5
64QAM	713.5	23155	5	25	0	21.5

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	704	23060	10	1	0	23.5
QPSK	704	23060	10	1	25	23.5
QPSK	704	23060	10	1	49	23.5
QPSK	704	23060	10	25	0	22.4
QPSK	704	23060	10	25	12	22.5
QPSK	704	23060	10	25	25	22.5
QPSK	704	23060	10	50	0	22.7
QPSK	707.5	23095	10	1	0	23.5
QPSK	707.5	23095	10	1	25	23.6
QPSK	707.5	23095	10	1	49	23.6
QPSK	707.5	23095	10	25	0	22.7
QPSK	707.5	23095	10	25	12	22.6
QPSK	707.5	23095	10	25	25	22.6
QPSK	707.5	23095	10	50	0	22.5
QPSK	711	23130	10	1	0	23.7
QPSK	711	23130	10	1	25	23.7
QPSK	711	23130	10	1	49	23.7
QPSK	711	23130	10	25	0	22.5
QPSK	711	23130	10	25	12	22.7
QPSK	711	23130	10	25	25	22.7
QPSK	711	23130	10	50	0	22.6
16QAM	704	23060	10	1	0	22.7
16QAM	704	23060	10	1	25	22.8
16QAM	704	23060	10	1	49	22.8
16QAM	704	23060	10	25	0	21.6
16QAM	704	23060	10	25	12	21.6
16QAM	704	23060	10	25	25	21.6
16QAM	704	23060	10	50	0	21.6
16QAM	707.5	23095	10	1	0	23.2
16QAM	707.5	23095	10	1	25	23.3
16QAM	707.5	23095	10	1	49	23.3
16QAM	707.5	23095	10	25	0	21.7
16QAM	707.5	23095	10	25	12	21.7
16QAM	707.5	23095	10	25	25	21.7
16QAM	707.5	23095	10	50	0	21.6
16QAM	711	23130	10	1	0	22.5
16QAM	711	23130	10	1	25	22.5
16QAM	711	23130	10	1	49	22.5
16QAM	711	23130	10	25	0	21.8
16QAM	711	23130	10	25	12	21.7
16QAM	711	23130	10	25	25	21.7
16QAM	711	23130	10	50	0	21.4

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	704	23060	10	1	0	21.6
64QAM	704	23060	10	1	25	21.6
64QAM	704	23060	10	1	49	21.6
64QAM	704	23060	10	25	0	21.6
64QAM	704	23060	10	25	12	21.6
64QAM	704	23060	10	25	25	21.7
64QAM	704	23060	10	50	0	21.6
64QAM	707.5	23095	10	1	0	22.0
64QAM	707.5	23095	10	1	25	21.5
64QAM	707.5	23095	10	1	49	21.7
64QAM	707.5	23095	10	25	0	21.7
64QAM	707.5	23095	10	25	12	21.8
64QAM	707.5	23095	10	25	25	21.8
64QAM	707.5	23095	10	50	0	21.8
64QAM	711	23130	10	1	0	21.4
64QAM	711	23130	10	1	25	21.4
64QAM	711	23130	10	1	49	21.7
64QAM	711	23130	10	25	0	21.7
64QAM	711	23130	10	25	12	21.7
64QAM	711	23130	10	25	25	21.4
64QAM	711	23130	10	50	0	21.8

LTE Band 17

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	706.5	23755	5	1	0	23.7
QPSK	706.5	23755	5	1	12	23.6
QPSK	706.5	23755	5	1	24	23.6
QPSK	706.5	23755	5	12	0	22.7
QPSK	706.5	23755	5	12	7	22.7
QPSK	706.5	23755	5	12	13	22.7
QPSK	706.5	23755	5	25	0	22.5
QPSK	710	23790	5	1	0	23.6
QPSK	710	23790	5	1	12	23.6
QPSK	710	23790	5	1	24	23.6
QPSK	710	23790	5	12	0	22.6
QPSK	710	23790	5	12	7	22.5
QPSK	710	23790	5	12	13	22.5
QPSK	710	23790	5	25	0	22.6
QPSK	713.5	23825	5	1	0	23.4
QPSK	713.5	23825	5	1	12	23.5
QPSK	713.5	23825	5	1	24	23.5
QPSK	713.5	23825	5	12	0	22.6
QPSK	713.5	23825	5	12	7	22.7
QPSK	713.5	23825	5	12	13	22.7
QPSK	713.5	23825	5	25	0	22.7
16QAM	706.5	23755	5	1	0	22.0
16QAM	706.5	23755	5	1	12	21.9
16QAM	706.5	23755	5	1	24	21.9
16QAM	706.5	23755	5	12	0	21.6
16QAM	706.5	23755	5	12	7	21.6
16QAM	706.5	23755	5	12	13	21.6
16QAM	706.5	23755	5	25	0	21.8
16QAM	710	23790	5	1	0	22.4
16QAM	710	23790	5	1	12	22.3
16QAM	710	23790	5	1	24	22.3
16QAM	710	23790	5	12	0	21.6
16QAM	710	23790	5	12	7	21.4
16QAM	710	23790	5	12	13	21.4
16QAM	710	23790	5	25	0	21.5
16QAM	713.5	23825	5	1	0	22.2
16QAM	713.5	23825	5	1	12	22.3
16QAM	713.5	23825	5	1	24	22.3
16QAM	713.5	23825	5	12	0	21.5
16QAM	713.5	23825	5	12	7	21.6
16QAM	713.5	23825	5	12	13	21.5
16QAM	713.5	23825	5	25	0	21.7

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	706.5	23755	5	1	0	21.8
64QAM	706.5	23755	5	1	12	21.8
64QAM	706.5	23755	5	1	24	21.8
64QAM	706.5	23755	5	12	0	21.8
64QAM	706.5	23755	5	12	7	21.8
64QAM	706.5	23755	5	12	13	21.8
64QAM	706.5	23755	5	25	0	21.8
64QAM	710	23790	5	1	0	21.5
64QAM	710	23790	5	1	12	21.8
64QAM	710	23790	5	1	24	21.5
64QAM	710	23790	5	12	0	21.6
64QAM	710	23790	5	12	7	21.5
64QAM	710	23790	5	12	13	21.5
64QAM	710	23790	5	25	0	21.6
64QAM	713.5	23825	5	1	0	21.7
64QAM	713.5	23825	5	1	12	21.7
64QAM	713.5	23825	5	1	24	21.7
64QAM	713.5	23825	5	12	0	21.7
64QAM	713.5	23825	5	12	7	21.7
64QAM	713.5	23825	5	12	13	21.6
64QAM	713.5	23825	5	25	0	21.6

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	709	23780	10	1	0	23.6
QPSK	709	23780	10	1	25	23.5
QPSK	709	23780	10	1	49	23.5
QPSK	709	23780	10	25	0	22.7
QPSK	709	23780	10	25	12	22.5
QPSK	709	23780	10	25	25	22.5
QPSK	709	23780	10	50	0	22.5
QPSK	710	23790	10	1	0	23.6
QPSK	710	23790	10	1	25	23.5
QPSK	710	23790	10	1	49	23.5
QPSK	710	23790	10	25	0	22.5
QPSK	710	23790	10	25	12	22.5
QPSK	710	23790	10	25	25	22.5
QPSK	710	23790	10	50	0	22.7
QPSK	711	23800	10	1	0	23.7
QPSK	711	23800	10	1	25	23.7
QPSK	711	23800	10	1	49	23.8
QPSK	711	23800	10	25	0	22.7
QPSK	711	23800	10	25	12	22.7
QPSK	711	23800	10	25	25	22.7
QPSK	711	23800	10	50	0	22.7
16QAM	709	23780	10	1	0	22.9
16QAM	709	23780	10	1	25	22.8
16QAM	709	23780	10	1	49	22.8
16QAM	709	23780	10	25	0	21.7
16QAM	709	23780	10	25	12	21.5
16QAM	709	23780	10	25	25	21.5
16QAM	709	23780	10	50	0	21.6
16QAM	710	23790	10	1	0	23.2
16QAM	710	23790	10	1	25	23.1
16QAM	710	23790	10	1	49	23.2
16QAM	710	23790	10	25	0	21.6
16QAM	710	23790	10	25	12	21.6
16QAM	710	23790	10	25	25	21.6
16QAM	710	23790	10	50	0	21.7
16QAM	711	23800	10	1	0	22.3
16QAM	711	23800	10	1	25	22.1
16QAM	711	23800	10	1	49	22.5
16QAM	711	23800	10	25	0	21.8
16QAM	711	23800	10	25	12	21.8
16QAM	711	23800	10	25	25	21.8
16QAM	711	23800	10	50	0	21.7

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	709	23780	10	1	0	21.6
64QAM	709	23780	10	1	25	21.6
64QAM	709	23780	10	1	49	21.6
64QAM	709	23780	10	25	0	21.6
64QAM	709	23780	10	25	12	21.6
64QAM	709	23780	10	25	25	21.6
64QAM	709	23780	10	50	0	21.6
64QAM	710	23790	10	1	0	21.7
64QAM	710	23790	10	1	25	21.7
64QAM	710	23790	10	1	49	21.7
64QAM	710	23790	10	25	0	21.7
64QAM	710	23790	10	25	12	21.7
64QAM	710	23790	10	25	25	21.7
64QAM	710	23790	10	50	0	21.7
64QAM	711	23800	10	1	0	21.7
64QAM	711	23800	10	1	25	21.7
64QAM	711	23800	10	1	49	21.7
64QAM	711	23800	10	25	0	21.7
64QAM	711	23800	10	25	12	21.8
64QAM	711	23800	10	25	25	21.6
64QAM	711	23800	10	50	0	21.6

LTE Band 26(824-849)

Modulation	Carrier frequency (MHz)	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	824.7	1.4	1	0	23.5
QPSK	824.7	1.4	1	3	23.5
QPSK	824.7	1.4	1	5	23.6
QPSK	824.7	1.4	3	0	23.7
QPSK	824.7	1.4	3	1	23.7
QPSK	824.7	1.4	3	3	23.7
QPSK	824.7	1.4	6	0	22.4
QPSK	836.5	1.4	1	0	23.6
QPSK	836.5	1.4	1	3	23.6
QPSK	836.5	1.4	1	5	23.6
QPSK	836.5	1.4	3	0	23.6
QPSK	836.5	1.4	3	1	23.7
QPSK	836.5	1.4	3	3	23.7
QPSK	836.5	1.4	6	0	22.6
QPSK	848.3	1.4	1	0	23.7
QPSK	848.3	1.4	1	3	23.8
QPSK	848.3	1.4	1	5	23.8
QPSK	848.3	1.4	3	0	23.7
QPSK	848.3	1.4	3	1	23.7
QPSK	848.3	1.4	3	3	23.6
QPSK	848.3	1.4	6	0	22.7
16QAM	824.7	1.4	1	0	23.1
16QAM	824.7	1.4	1	3	23.1
16QAM	824.7	1.4	1	5	23.1
16QAM	824.7	1.4	3	0	22.6
16QAM	824.7	1.4	3	1	22.7
16QAM	824.7	1.4	3	3	22.8
16QAM	824.7	1.4	6	0	21.7
16QAM	836.5	1.4	1	0	23.3
16QAM	836.5	1.4	1	3	23.1
16QAM	836.5	1.4	1	5	23.1
16QAM	836.5	1.4	3	0	22.5
16QAM	836.5	1.4	3	1	22.4
16QAM	836.5	1.4	3	3	22.4
16QAM	836.5	1.4	6	0	21.8
16QAM	848.3	1.4	1	0	22.2
16QAM	848.3	1.4	1	3	22.2
16QAM	848.3	1.4	1	5	22.5
16QAM	848.3	1.4	3	0	22.8
16QAM	848.3	1.4	3	1	22.7
16QAM	848.3	1.4	3	3	22.7
16QAM	848.3	1.4	6	0	21.8

Modulation	Carrier frequency (MHz)	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	824.7	1.4	1	0	21.8
64QAM	824.7	1.4	1	3	21.7
64QAM	824.7	1.4	1	5	21.8
64QAM	824.7	1.4	3	0	21.8
64QAM	824.7	1.4	3	1	21.7
64QAM	824.7	1.4	3	3	21.5
64QAM	824.7	1.4	6	0	21.6
64QAM	836.5	1.4	1	0	21.7
64QAM	836.5	1.4	1	3	21.8
64QAM	836.5	1.4	1	5	21.7
64QAM	836.5	1.4	3	0	21.7
64QAM	836.5	1.4	3	1	21.7
64QAM	836.5	1.4	3	3	21.7
64QAM	836.5	1.4	6	0	21.7
64QAM	848.3	1.4	1	0	21.8
64QAM	848.3	1.4	1	3	21.8
64QAM	848.3	1.4	1	5	21.8
64QAM	848.3	1.4	3	0	21.8
64QAM	848.3	1.4	3	1	21.8
64QAM	848.3	1.4	3	3	21.8
64QAM	848.3	1.4	6	0	21.6

Modulation	Carrier frequency (MHz)	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	3	1	0	23.5
QPSK	825.5	3	1	8	23.4
QPSK	825.5	3	1	14	23.5
QPSK	825.5	3	8	0	22.5
QPSK	825.5	3	8	4	22.5
QPSK	825.5	3	8	7	22.5
QPSK	825.5	3	15	0	22.5
QPSK	836.5	3	1	0	23.5
QPSK	836.5	3	1	8	23.6
QPSK	836.5	3	1	14	23.6
QPSK	836.5	3	8	0	22.5
QPSK	836.5	3	8	4	22.6
QPSK	836.5	3	8	7	22.6
QPSK	836.5	3	15	0	22.4
QPSK	847.5	3	1	0	23.9
QPSK	847.5	3	1	8	23.7
QPSK	847.5	3	1	14	23.7
QPSK	847.5	3	8	0	22.7
QPSK	847.5	3	8	4	22.7
QPSK	847.5	3	8	7	22.6
QPSK	847.5	3	15	0	22.5
16QAM	825.5	3	1	0	22.8
16QAM	825.5	3	1	8	22.8
16QAM	825.5	3	1	14	22.9
16QAM	825.5	3	8	0	21.9
16QAM	825.5	3	8	4	21.8
16QAM	825.5	3	8	7	21.8
16QAM	825.5	3	15	0	21.5
16QAM	836.5	3	1	0	23.2
16QAM	836.5	3	1	8	23.1
16QAM	836.5	3	1	14	23.2
16QAM	836.5	3	8	0	21.6
16QAM	836.5	3	8	4	21.6
16QAM	836.5	3	8	7	21.6
16QAM	836.5	3	15	0	21.5
16QAM	847.5	3	1	0	22.4
16QAM	847.5	3	1	8	22.4
16QAM	847.5	3	1	14	22.3
16QAM	847.5	3	8	0	21.7
16QAM	847.5	3	8	4	21.8
16QAM	847.5	3	8	7	21.8
16QAM	847.5	3	15	0	21.6

Modulation	BW	Carrier frequency (MHz)	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	3	825.5	3	1	0	21.6
64QAM	0	825.5	3	1	8	21.5
64QAM	0	825.5	3	1	14	21.5
64QAM	0	825.5	3	8	0	21.5
64QAM	0	825.5	3	8	4	21.5
64QAM	0	825.5	3	8	7	21.5
64QAM	0	825.5	3	15	0	21.5
64QAM	0	836.5	3	1	0	21.6
64QAM	0	836.5	3	1	8	21.6
64QAM	0	836.5	3	1	14	21.6
64QAM	0	836.5	3	8	0	21.6
64QAM	0	836.5	3	8	4	21.6
64QAM	0	836.5	3	8	7	21.6
64QAM	0	836.5	3	15	0	21.6
64QAM	0	847.5	3	1	0	21.6
64QAM	0	847.5	3	1	8	21.6
64QAM	0	847.5	3	1	14	21.7
64QAM	0	847.5	3	8	0	21.7
64QAM	0	847.5	3	8	4	21.7
64QAM	0	847.5	3	8	7	21.7
64QAM	0	847.5	3	15	0	21.7

Modulation	Carrier frequency (MHz)	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	5	1	0	23.6
QPSK	826.5	5	1	12	23.5
QPSK	826.5	5	1	24	23.6
QPSK	826.5	5	12	0	22.4
QPSK	826.5	5	12	7	22.4
QPSK	826.5	5	12	13	22.4
QPSK	826.5	5	25	0	22.4
QPSK	836.5	5	1	0	23.6
QPSK	836.5	5	1	12	23.6
QPSK	836.5	5	1	24	23.6
QPSK	836.5	5	12	0	22.6
QPSK	836.5	5	12	7	22.6
QPSK	836.5	5	12	13	22.6
QPSK	836.5	5	25	0	22.5
QPSK	846.5	5	1	0	23.5
QPSK	846.5	5	1	12	23.5
QPSK	846.5	5	1	24	23.5
QPSK	846.5	5	12	0	22.7
QPSK	846.5	5	12	7	22.7
QPSK	846.5	5	12	13	22.7
QPSK	846.5	5	25	0	22.6
16QAM	826.5	5	1	0	21.7
16QAM	826.5	5	1	12	21.7
16QAM	826.5	5	1	24	21.8
16QAM	826.5	5	12	0	21.5
16QAM	826.5	5	12	7	21.5
16QAM	826.5	5	12	13	21.5
16QAM	826.5	5	25	0	21.6
16QAM	836.5	5	1	0	22.6
16QAM	836.5	5	1	12	22.7
16QAM	836.5	5	1	24	22.7
16QAM	836.5	5	12	0	21.6
16QAM	836.5	5	12	7	21.6
16QAM	836.5	5	12	13	21.5
16QAM	836.5	5	25	0	21.5
16QAM	846.5	5	1	0	22.3
16QAM	846.5	5	1	12	22.3
16QAM	846.5	5	1	24	22.4
16QAM	846.5	5	12	0	21.6
16QAM	846.5	5	12	7	21.5
16QAM	846.5	5	12	13	21.6
16QAM	846.5	5	25	0	21.8

Modulation	Carrier frequency (MHz)	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	826.5	5	1	0	21.6
64QAM	826.5	5	1	12	21.6
64QAM	826.5	5	1	24	21.6
64QAM	826.5	5	12	0	21.6
64QAM	826.5	5	12	7	21.6
64QAM	826.5	5	12	13	21.6
64QAM	826.5	5	25	0	21.6
64QAM	836.5	5	1	0	21.5
64QAM	836.5	5	1	12	21.5
64QAM	836.5	5	1	24	21.5
64QAM	836.5	5	12	0	21.5
64QAM	836.5	5	12	7	21.5
64QAM	836.5	5	12	13	21.5
64QAM	836.5	5	25	0	21.5
64QAM	846.5	5	1	0	21.8
64QAM	846.5	5	1	12	21.8
64QAM	846.5	5	1	24	21.8
64QAM	846.5	5	12	0	21.8
64QAM	846.5	5	12	7	21.8
64QAM	846.5	5	12	13	21.8
64QAM	846.5	5	25	0	21.8

Modulation	Carrier frequency (MHz)	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	10	1	0	23.5
QPSK	829	10	1	25	23.6
QPSK	829	10	1	49	23.5
QPSK	829	10	25	0	22.5
QPSK	829	10	25	12	22.4
QPSK	829	10	25	25	22.4
QPSK	829	10	50	0	22.6
QPSK	836.5	10	1	0	23.7
QPSK	836.5	10	1	25	23.7
QPSK	836.5	10	1	49	23.7
QPSK	836.5	10	25	0	22.4
QPSK	836.5	10	25	12	22.5
QPSK	836.5	10	25	25	22.5
QPSK	836.5	10	50	0	22.5
QPSK	844	10	1	0	23.5
QPSK	844	10	1	25	23.5
QPSK	844	10	1	49	23.5
QPSK	844	10	25	0	22.5
QPSK	844	10	25	12	22.6
QPSK	844	10	25	25	22.6
QPSK	844	10	50	0	22.6
16QAM	829	10	1	0	22.7
16QAM	829	10	1	25	22.7
16QAM	829	10	1	49	22.8
16QAM	829	10	25	0	21.5
16QAM	829	10	25	12	21.6
16QAM	829	10	25	25	21.6
16QAM	829	10	50	0	21.5
16QAM	836.5	10	1	0	22.7
16QAM	836.5	10	1	25	22.7
16QAM	836.5	10	1	49	23.3
16QAM	836.5	10	25	0	21.5
16QAM	836.5	10	25	12	21.6
16QAM	836.5	10	25	25	21.5
16QAM	836.5	10	50	0	21.6
16QAM	844	10	1	0	22.1
16QAM	844	10	1	25	22.1
16QAM	844	10	1	49	22.2
16QAM	844	10	25	0	21.7
16QAM	844	10	25	12	21.7
16QAM	844	10	25	25	21.8
16QAM	844	10	50	0	21.7

Modulation	Carrier frequency (MHz)	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	829	10	1	0	21.5
64QAM	829	10	1	25	21.5
64QAM	829	10	1	49	21.5
64QAM	829	10	25	0	21.5
64QAM	829	10	25	12	21.5
64QAM	829	10	25	25	21.5
64QAM	829	10	50	0	21.5
64QAM	836.5	10	1	0	21.6
64QAM	836.5	10	1	25	21.6
64QAM	836.5	10	1	49	21.6
64QAM	836.5	10	25	0	21.6
64QAM	836.5	10	25	12	21.5
64QAM	836.5	10	25	25	21.6
64QAM	836.5	10	50	0	21.6
64QAM	844	10	1	0	21.7
64QAM	844	10	1	25	21.6
64QAM	844	10	1	49	21.7
64QAM	844	10	25	0	21.7
64QAM	844	10	25	12	21.7
64QAM	844	10	25	25	21.7
64QAM	844	10	50	0	21.7

Modulation	Carrier frequency (MHz)	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	831.5	15	1	0	23.5
QPSK	831.5	15	1	37	23.5
QPSK	831.5	15	1	74	23.5
QPSK	831.5	15	36	0	22.5
QPSK	831.5	15	36	29	22.5
QPSK	831.5	15	36	30	22.5
QPSK	831.5	15	75	0	22.5
QPSK	836.5	15	1	0	23.7
QPSK	836.5	15	1	37	23.8
QPSK	836.5	15	1	74	23.8
QPSK	836.5	15	36	0	22.6
QPSK	836.5	15	36	29	22.5
QPSK	836.5	15	36	30	22.5
QPSK	836.5	15	75	0	22.5
QPSK	841.5	15	1	0	23.4
QPSK	841.5	15	1	37	23.5
QPSK	841.5	15	1	74	23.5
QPSK	841.5	15	36	0	22.5
QPSK	841.5	15	36	29	22.6
QPSK	841.5	15	36	30	22.6
QPSK	841.5	15	75	0	22.6
16QAM	831.5	15	1	0	22.7
16QAM	831.5	15	1	37	22.7
16QAM	831.5	15	1	74	22.8
16QAM	831.5	15	36	0	21.6
16QAM	831.5	15	36	29	21.7
16QAM	831.5	15	36	30	21.5
16QAM	831.5	15	75	0	21.6
16QAM	836.5	15	1	0	23.3
16QAM	836.5	15	1	37	23.3
16QAM	836.5	15	1	74	23.3
16QAM	836.5	15	36	0	21.6
16QAM	836.5	15	36	29	21.6
16QAM	836.5	15	36	30	21.7
16QAM	836.5	15	75	0	21.6
16QAM	841.5	15	1	0	22.8
16QAM	841.5	15	1	37	22.9
16QAM	841.5	15	1	74	22.9
16QAM	841.5	15	36	0	21.6
16QAM	841.5	15	36	29	21.6
16QAM	841.5	15	36	30	21.6
16QAM	841.5	15	75	0	21.5

Modulation	Carrier frequency (MHz)	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	831.5	15	1	0	21.6
64QAM	831.5	15	1	37	21.6
64QAM	831.5	15	1	74	21.6
64QAM	831.5	15	36	0	21.6
64QAM	831.5	15	36	29	21.6
64QAM	831.5	15	36	30	21.6
64QAM	831.5	15	75	0	21.6
64QAM	836.5	15	1	0	21.7
64QAM	836.5	15	1	37	21.7
64QAM	836.5	15	1	74	21.7
64QAM	836.5	15	36	0	21.7
64QAM	836.5	15	36	29	21.7
64QAM	836.5	15	36	30	21.7
64QAM	836.5	15	75	0	21.7
64QAM	841.5	15	1	0	21.6
64QAM	841.5	15	1	37	21.6
64QAM	841.5	15	1	74	21.6
64QAM	841.5	15	36	0	21.6
64QAM	841.5	15	36	29	21.6
64QAM	841.5	15	36	30	21.6
64QAM	841.5	15	75	0	21.6

LTE Band 26
RF Power Output

Min Power Output						
Modulation	BW	Carrier frequency (MHz)	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1.4	814.7	1.4	1	0	23.0
				1	3	22.9
				1	5	22.9
				3	0	23.0
				3	1	23.0
				3	3	23.0
		6		0	22.0	
		819		1	0	23.2
				1	3	23.2
				1	5	23.2
				3	0	23.2
				3	1	23.2
				3	3	23.2
		823.3		6	0	22.2
				1	0	21.9
				1	3	21.2
				1	5	21.2
				3	0	21.9
3				1	21.4	
16QAM		814.7		3	3	21.4
				6	0	20.8
				1	0	21.9
				1	3	22.0
				1	5	22.0
	3		0	22.2		
	819	3	1	22.2		
		3	3	22.2		
		6	0	21.0		
		1	0	22.3		
		1	3	22.3		
		1	5	22.3		
	823.3	3	0	22.2		
		3	1	22.3		
		3	3	22.2		
		6	0	21.4		
		1	0	21.1		
		1	3	20.4		
823.3	1	5	20.4			
	3	0	21.1			
	3	1	20.6			
	3	3	20.6			
	6	0	19.8			

Modulation	BW	Carrier frequency (MHz)	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1.4	814.7	1.4	1	0	21.0
				1	3	21.0
				1	5	21.0
				3	0	21.0
				3	1	21.0
				3	3	21.0
				6	0	21.0
		819		1	0	21.4
				1	3	21.4
				1	5	21.4
				3	0	21.4
				3	1	21.4
				3	3	21.4
				6	0	21.4
		823.3		1	0	19.8
				1	3	19.8
				1	5	19.8
				3	0	19.8
				3	1	19.8
				3	3	19.8
				6	0	19.8

Modulation	BW	Carrier frequency (MHz)	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	3	815.5	3	1	0	22.7
				1	8	22.7
				1	14	22.7
				8	0	21.8
				8	4	21.9
				8	7	21.9
				15	0	21.8
		819		1	0	23.0
				1	8	23.2
				1	14	23.1
				8	0	22.2
				8	4	22.3
				8	7	22.3
				15	0	22.2
		822.5		1	0	22.6
				1	8	21.1
				1	14	21.1
				8	0	21.6
8				4	20.9	
8				7	20.9	
15				0	21.3	
16QAM		815.5		1	0	22.3
				1	8	22.4
				1	14	22.4
				8	0	21.1
				8	4	21.1
				8	7	21.1
	15		0	21.0		
	819	1	0	22.1		
		1	8	22.3		
		1	14	22.3		
		8	0	21.2		
		8	4	21.3		
		8	7	21.3		
		15	0	21.2		
	822.5	1	0	21.7		
		1	8	20.3		
		1	14	20.3		
		8	0	20.7		
		8	4	20.1		
		8	7	20.1		
15	0	20.5				

Modulation	BW	Carrier frequency (MHz)	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	3	815.5	3	1	0	21.0
				1	8	21.0
				1	14	21.0
				8	0	21.0
				8	4	21.0
				8	7	21.0
				15	0	21.0
		819		1	0	21.2
				1	8	21.2
				1	14	21.2
				8	0	21.3
				8	4	21.3
				8	7	21.3
				15	0	21.3
		822.5		1	0	20.5
				1	8	20.5
				1	14	20.5
				8	0	20.5
				8	4	20.5
				8	7	20.5
				15	0	20.5

Modulation	BW	Carrier frequency (MHz)	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	5	816.5	5	1	0	22.5
				1	12	22.8
				1	24	22.8
				12	0	21.7
				12	7	21.9
				12	13	21.9
		25		0	21.8	
		819		1	0	22.4
				1	12	22.7
				1	24	22.7
				12	0	22.0
				12	7	22.1
				12	13	22.1
		25		0	22.0	
		816.5		1	0	21.8
				1	12	21.0
				1	24	21.0
				12	0	21.4
				12	7	21.1
12				13	21.1	
25		0		21.3		
16QAM		816.5		1	0	21.4
				1	12	21.8
				1	24	21.8
				12	0	20.8
				12	7	21.0
				12	13	21.0
	25	0	21.0			
	819	1	0	21.7		
		1	12	22.0		
		1	24	22.0		
		12	0	21.1		
		12	7	21.3		
		12	13	21.3		
	25	0	21.1			
	816.5	1	0	20.9		
		1	12	20.1		
		1	24	20.1		
		12	0	20.4		
12		7	20.2			
12		13	20.2			
25		0	20.5			

Modulation	BW	Carrier frequency (MHz)	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	5	816.5	5	1	0	21.0
				1	12	21.0
				1	24	21.0
				12	0	21.0
				12	7	21.0
				12	13	21.0
				25	0	21.0
		819		1	0	21.1
				1	12	21.1
				1	24	21.1
				12	0	21.2
				12	7	21.2
				12	13	21.2
				25	0	21.2
		816.5		1	0	20.5
				1	12	20.5
				1	24	20.5
				12	0	20.5
				12	7	20.5
				12	13	20.5
				25	0	20.5

Modulation	BW	Carrier frequency (MHz)	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	10	819	10	1	0	22.5
				1	25	22.8
				1	49	22.8
				25	0	21.9
				25	12	22.3
				25	25	22.3
				50	0	22.1
16QAM				1	0	22.2
				1	25	22.5
				1	49	22.5
				25	0	21.0
				25	12	21.4
				25	25	21.4
				50	0	21.2
Modulation	BW	Carrier frequency (MHz)	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	10	819	10	1	0	21.2
				1	25	21.2
				1	49	21.2
				25	0	21.2
				25	12	21.2
				25	25	21.2
				50	0	21.2

LTE Band 66

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1710.7	131979	1.4	1	0	23.96
				1	5	23.80
				3	2	22.81
				6	0	22.70
	1745	132322		1	0	23.90
				1	5	23.60
				3	2	22.74
				6	0	22.73
	1779.3	132665		1	0	24.24
				1	5	23.92
				3	2	22.99
				6	0	23.00
16QAM	1710.7	131979	1.4	1	0	23.12
				1	5	23.01
				3	2	21.86
				6	0	21.89
	1745	132322		1	0	23.20
				1	5	22.97
				3	2	21.83
				6	0	21.87
	1779.3	132665		1	0	23.45
				1	5	23.23
				3	2	22.11
				6	0	22.11
64QAM	1710.7	131979	1.4	1	0	23.18
				1	5	22.92
				3	2	21.79
				6	0	21.82
	1745	132322		1	0	23.10
				1	5	22.91
				3	2	21.74
				6	0	21.73
	1779.3	132665		1	0	23.36
				1	5	23.13
				3	2	22.06
				6	0	22.02

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1711.5	131987	3	1	0	23.84
				1	14	23.70
				8	4	22.85
				15	0	22.82
	1745	132322		1	0	23.88
				1	14	23.62
				8	4	22.75
				15	0	22.68
	1778.5	132657		1	0	24.27
				1	14	23.99
				8	4	23.12
				15	0	22.95
16QAM	1711.5	131987	3	1	0	23.21
				1	14	23.01
				8	4	21.93
				15	0	21.78
	1745	132322		1	0	23.18
				1	14	23.06
				8	4	21.92
				15	0	21.91
	1778.5	132657		1	0	23.32
				1	14	23.22
				8	4	22.06
				15	0	22.01
64QAM	1711.5	131987	3	1	0	23.17
				1	14	22.94
				8	4	21.77
				15	0	21.70
	1745	132322		1	0	23.14
				1	14	22.90
				8	4	21.76
				15	0	21.81
	1778.5	132657		1	0	23.40
				1	14	23.16
				8	4	22.11
				15	0	22.06

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1712.5	131997	5	1	0	23.90
				1	24	23.70
				12	6	22.79
				25	0	22.73
	1745	132322		1	0	23.96
				1	24	23.71
				12	6	22.84
				25	0	22.78
	1777.5	132647		1	0	24.20
				1	24	23.92
				12	6	23.04
				25	0	23.04
16QAM	1712.5	131997	5	1	0	23.10
				1	24	23.00
				12	6	21.88
				25	0	21.88
	1745	132322		1	0	23.09
				1	24	23.05
				12	6	21.80
				25	0	21.82
	1777.5	132647		1	0	23.33
				1	24	23.15
				12	6	22.02
				25	0	22.03
64QAM	1712.5	131997	5	1	0	23.16
				1	24	22.89
				12	6	21.91
				25	0	21.79
	1745	132322		1	0	23.16
				1	24	22.98
				12	6	21.79
				25	0	21.84
	1777.5	132647		1	0	23.32
				1	24	23.10
				12	6	22.09
				25	0	22.10

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1715	132022	10	1	0	23.86
				1	49	23.79
				24	12	22.84
				50	0	22.70
	1745	132322		1	0	23.92
				1	49	23.68
				24	12	22.77
				50	0	22.77
	1775	132622		1	0	24.18
				1	49	23.98
				24	12	23.04
				50	0	23.08
16QAM	1715	132022	10	1	0	23.10
				1	49	22.94
				24	12	21.80
				50	0	21.84
	1745	132322		1	0	23.17
				1	49	22.93
				24	12	21.86
				50	0	21.85
	1775	132622		1	0	23.36
				1	49	23.18
				24	12	22.13
				50	0	22.11
64QAM	1715	132022	10	1	0	23.06
				1	49	22.93
				24	12	21.91
				50	0	21.75
	1745	132322		1	0	23.17
				1	49	22.97
				24	12	21.75
				50	0	21.78
	1775	132622		1	0	23.46
				1	49	23.09
				24	12	22.06
				50	0	22.14

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1717.5	132047	15	1	0	23.93
				1	74	23.77
				40	18	22.82
				75	0	22.79
	1745	132322		1	0	23.88
				1	74	23.60
				40	18	22.70
				75	0	22.70
	1772.5	132597		1	0	24.14
				1	74	23.93
				40	18	23.01
				75	0	23.03
16QAM	1717.5	132047	15	1	0	23.24
				1	74	22.95
				40	18	21.91
				75	0	21.83
	1745	132322		1	0	23.21
				1	74	22.97
				40	18	21.85
				75	0	21.83
	1772.5	132597		1	0	23.37
				1	74	23.17
				40	18	22.13
				75	0	22.06
64QAM	1717.5	132047	15	1	0	23.15
				1	74	23.00
				40	18	21.92
				75	0	21.82
	1745	132322		1	0	23.18
				1	74	22.89
				40	18	21.78
				75	0	21.85
	1772.5	132597		1	0	23.42
				1	74	23.13
				40	18	22.13
				75	0	22.00

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1720	132072	20	1	0	23.98
				1	99	23.84
				50	25	22.89
				100	0	22.85
	1745	132322		1	0	23.97
				1	99	23.75
				50	25	22.84
				100	0	22.83
	1770	132572		1	0	24.28
				1	99	24.05
				50	25	23.12
				100	0	23.09
16QAM	1720	132072	20	1	0	23.24
				1	99	23.04
				50	25	21.94
				100	0	21.89
	1745	132322		1	0	23.23
				1	99	23.07
				50	25	21.93
				100	0	21.92
	1770	132572		1	0	23.45
				1	99	23.24
				50	25	22.15
				100	0	22.13
64QAM	1720	132072	20	1	0	23.21
				1	99	23.01
				50	25	21.92
				100	0	21.84
	1745	132322		1	0	23.21
				1	99	23.04
				50	25	21.87
				100	0	21.86
	1770	132572		1	0	23.47
				1	99	23.23
				50	25	22.13
				100	0	22.15

6.5 Bluetooth Measurement result

BT

Modulation type	Average Power Output (dBm)		
	2402MHz (Ch0)	2441MHz (Ch39)	2480MHz (Ch78)
GFSK	9.01	9.72	9.33
$\pi/4$ DQPSK	8.49	9.17	8.66
8DPSK	8.48	9.13	8.74

BLE

Modulation type	Average Power Output (dBm)		
	2402MHz (Ch0)	2440MHz (Ch19)	2480MHz (Ch39)
GFSK (LE 1Mbps)	7.26	7.50	7.28
GFSK (LE 2Mbps)	7.30	7.54	7.25

6.6 Wi-Fi Measurement result

WIFI 2.4GHz

Mode	Frequency (MHz)	Average power output (dBm)
802.11b	2412	13.24
	2437	15.47
	2462	12.82
802.11g	2412	12.60
	2437	14.60
	2462	12.27
802.11n HT20	2412	12.83
	2437	15.21
	2462	12.71
802.11n HT40	2422	13.39
	2437	14.82
	2452	12.38

WIFI 5GHz

UNII-1

Mode	Frequency (MHz)	Average power output(dBm)
802.11a	5180	11.51
	5220	10.28
	5240	10.25
802.11n HT20	5180	11.50
	5220	10.61
	5240	10.44
802.11n HT40	5190	11.09
	5230	10.41
802.11ac VHT20	5180	11.49
	5220	10.53
	5240	10.35
802.11ac VHT40	5190	11.05
	5230	10.36
802.11ac VHT80	5210	10.49

UNII-3

Mode	Frequency (MHz)	Average power output(dBm)
802.11a	5745	11.77
	5785	10.44
	5825	11.11
802.11n HT20	5745	11.72
	5785	10.73
	5825	11.44
802.11n HT40	5755	11.49
	5795	11.17
802.11ac VHT20	5745	11.66
	5785	10.63
	5825	11.31
802.11ac VHT40	5755	11.33
	5795	11.15
802.11ac VHT80	5775	10.47

6.7 Standalone SAR Test Exclusion Considerations

Standalone 1-g head or body SAR evaluation by measurement or numerical simulation is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

Method1:

According to the KDB447498 4.3.1 (1)

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f} \text{ (GHz)}] \leq 3.0$ for 1-g SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

This is equivalent to $[(\text{max. power of channel, including tune-up tolerance, mW}) / (60 / \sqrt{f}(\text{GHz}) \text{ mW})] \cdot [20 \text{ mm} / (\text{min. test separation distance, mm})] \leq 1.0$ for 1-g SAR; also see Appendix A for approximate exclusion threshold values at selected frequencies and distances.

Method2:

According to the KDB447498 appendix A

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

Summary of Transmitters

Band/Mode	Max conducted power adjusted for tune-up tolerance(mW)	Exposure condition	SAR test exclusion threshold (mW)	Standalone SAR Required
BT/BLE	10.00	Head	10	Yes
		Body-worn/Hotspot	19	Yes
Wi-Fi 2.4GHz	35.49	Head	10	Yes
		Body-worn/Hotspot	19	Yes
Wi-Fi 5GHz UNII-1	15.85	Head	7	Yes
		Body-worn/Hotspot	13	Yes
		Body-worn	13	Yes
Wi-Fi 5GHz UNII-3	15.85	Head	6	Yes
		Body-worn/Hotspot	12	Yes

6.8 RF exposure conditions

Refer to the follow picture “Antenna information” for the specific details of the antenna-to-antenna and antenna-to-edge(s) distances.



All of Implementation antenna

B7 main antenna: LTE B7/CA_7C RX&TX

MB main antenna: LTE B2/4/66/WCDMA B2/4/GSM1900 RX&TX;

LB main antenna: LTE B5/12/17/26/WCDMA B5/GSM850 RX&TX;

LB DIV antenna: LTE B5/12/17/26/WCDMA B5/GSM850 RX;

MB+HB DIV antenna: LTE B7/CA_7C/2/4/66/WCDMA B2/4/GSM1900 RX;

2.4WIFI/BT antenna: 2400MHz~2483.5MHz

WIFI 5GHz antenna: 5150MHz~5250MHz/5725MHz~5850MHz

Note: we defined these positions when we face the screen of EUT, the reason why we perform SAR test for these edges is that the structures of antennas is close to our body, and for the other edges do not necessary cause we already consider the worst case.

6.8.1 Head Exposure Conditions For WWAN

Test Configurations	SAR Required	Note
Left Touch	Yes	/
Left Tilt (15°)	Yes	/
Right Touch	Yes	/
Right Tilt (15°)	Yes	/

For WLAN

Test Configurations	SAR Required	Note
Left Touch	Yes	/
Left Tilt (15°)	Yes	/
Right Touch	Yes	/
Right Tilt (15°)	Yes	/

For BT/BLE

Test Configurations	SAR Required	Note
Left Touch	Yes	/
Left Tilt (15°)	Yes	/
Right Touch	Yes	/
Right Tilt (15°)	Yes	/

6.8.2 Body Worn Exposure conditions

For WWAN

Test Configurations	SAR Required	Note
Back	Yes	/
Front	Yes	/

For WLAN

Test Configurations	SAR Required	Note
Back	Yes	/
Front	Yes	/

For BT/BLE

Test Configurations	SAR Required	Note
Back	Yes	/
Front	Yes	/

6.8.3 Hotspot Exposure conditions For WWAN (B7 main antenna)

Test Configurations	SAR Required	Antenna-to-edge(s) distances
Back	Yes	<25mm
Front	Yes	<25mm
Top	Yes	<25mm
Bottom	No	>25mm
Left	Yes	<25mm
Right	Yes	<25mm

For WWAN (MB main antenna)

Test Configurations	SAR Required	Antenna-to-edge(s) distances
Back	Yes	<25mm
Front	Yes	<25mm
Top	Yes	<25mm
Bottom	No	>25mm
Left	Yes	<25mm
Right	Yes	<25mm

For WWAN (LB main antenna)

Test Configurations	SAR Required	Antenna-to-edge(s) distances
Back	Yes	<25mm
Front	Yes	<25mm
Top	No	>25mm
Bottom	Yes	<25mm
Left	Yes	<25mm
Right	Yes	<25mm

For WLAN(WIFI5GHz)

Test Configurations	SAR Required	Antenna-to-edge(s) distances
Back	Yes	<25mm
Front	Yes	<25mm
Top	Yes	<25mm
Bottom	No	>25mm
Left	Yes	<25mm
Right	Yes	<25mm

For 2.4G WIFI/BT/BLE

Test Configurations	SAR Required	Antenna-to-edge(s) distances
Back	Yes	<25mm
Front	Yes	<25mm
Top	Yes	<25mm
Bottom	No	>25mm
Left	Yes	<25mm
Right	Yes	<25mm

6.9 System Checking

The manufacturer calibrates the probes annually. Dielectric parameters of the tissue simulants were measured every day using the dielectric probe kit and the network analyser. For the measurement of the following parameters the SPEAG DAKS-3.5 dielectric parameter probe is used, representing the open-ended coaxial probe measurement procedure.

Date Tested	Freq. (MHz)	Liquid parameters	measured	Target	Delta (%)	Tolerance (%)
2020.10.18	750	ϵ_r	41.352	41.90	-1.31	± 10
		σ [S/m]	0.923	0.89	3.71	± 10
2020.10.20	835	ϵ_r	40.266	41.50	-2.97	± 10
		σ [S/m]	0.911	0.90	1.22	± 10
2020.10.26	1800	ϵ_r	40.688	40.00	1.72	± 10
		σ [S/m]	1.418	1.40	1.29	± 10
2020.10.30	2000	ϵ_r	39.844	40.00	-0.39	± 10
		σ [S/m]	1.427	1.40	1.93	± 10
2020.10.02	2450	ϵ_r	38.343	39.20	-2.19	± 10
		σ [S/m]	1.866	1.80	3.67	± 10
2020.11.04	2600	ϵ_r	39.672	39.00	1.72	± 10
		σ [S/m]	1.951	1.96	-0.46	± 10
2020.11.06	5200	ϵ_r	36.811	36.0	2.25	± 5
		σ [S/m]	4.72	4.66	1.29	± 5
2020.11.09	5800	ϵ_r	36.42	35.3	3.17	± 5
		σ [S/m]	5.15	5.27	-2.28	± 5

Note: For DASY system, the conservative tolerance 5% could expand to 10% when the frequency under 3GHz

A system check measurement was made following once the determination of the dielectric parameters of the simulant, using the dipole validation kit. The system checking results (dielectric parameters and SAR values) are given in the table below.

Date Tested	System dipole	SAR measured (normalized to 1W)		Target (Ref. Value)	Delta (%)	Tolerance (%)
2020.10.18	D750V3	1g	2.12	8.40	0.95	± 10
2020.10.20	D835V2	1g	2.39	9.38	1.92	± 10
2020.10.26	D1800V2	1g	9.49	38.90	-2.42	± 10
2020.10.30	D2000V2	1g	9.82	41.00	-4.20	± 10
2020.11.02	D2450V2	1g	13.5	53.00	1.89	± 10
2020.11.04	D2600V2	1g	14.1	56.50	-0.18	± 10
2020.11.06	D5GHzV3(5200MHz)	1g	0.764	75.90	0.66	± 10
2020.11.09	D5GHzV3(5800MHz)	1g	0.792	78.50	0.89	± 10

6.10 SAR TEST RESULT

In order to determine the largest value of the peak spatial-average SAR of a handset, all device positions, configurations, and operational modes should be tested for each frequency band according to Steps 1 to 3 below.

Step 1: The tests should be performed at the channel that is closest to the center of the transmit frequency band.

a) All device positions (cheek and tilt, for both left and right sides of the SAM phantom),
b) All configurations for each device position in a), e.g., antenna extended and retracted, and
c) All operational modes for each device position in item a) and configuration in item b) in each frequency band, e.g., analog and digital, If more than three frequencies need to be tested (i.e., $N_c > 3$), then all frequencies, configurations and modes shall be tested for all of the above test conditions.

Step 2: For the condition providing the highest peak spatial-average SAR determined in Step 1 for each frequency, perform all tests at all other test frequency channels, e.g., lowest and highest frequencies. In addition, for all other conditions (device position, configuration, and operational mode) where the peak spatial-average SAR value determined in Step 1 is within 3 dB of the applicable SAR limit, it is recommended that all other test frequencies should be tested as well.

Step 3: Examine all data to determine the largest value of the peak.

Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.

Scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.

Duty Factor = 1 / Duty Cycle(%)

For cellular network:

Reported SAR (W/kg) = Measured SAR (W/kg) * Scaling Factor

For WLAN

Reported SAR (W/kg) = Measured SAR (W/kg) * Scaling Factor * Duty factor

2. Per KDB 447498 D01v06, for each exposure position, if the highest output channel reported SAR ≤ 0.8 W/kg, other channels SAR testing are not necessary.

3. The distance between the EUT and the phantom bottom is 10mm.

Mode		Duty cycle	Duty factor	Note
Licensed Frequency	GSM Band	Depends on UP slots	NA	According to the theory, we configured duty cycle with relevant value on the communication tester, so correction factor does not need such as "duty factor"
	WCDMA Band	100%		
	FDD-LTE Band	100%		
Unlicensed Frequency	BT DH5	77.55%	1.29	SRTC perform SAR test with non-signaling mode, and duty factor shall be considered because of the uncertainty of data traffic.
	WIFI 2.4GHz 802.11b	98.65	1.01	
	WIFI 5GHz 802.11a	90.86	1.10	

The measured and reported Head/body SAR values for the test device are tabulated below:

Mode: GSM 850

fL(MHz)=824.2MHz

fM(MHz)=836.5MHz

fH(MHz)= 848.8MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Test case				Meas power(dBm)	Tune-up(dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel				First	Second	First	Second
GPRS/EDGE GMSK 2slot	Head	Left touch	L	29.08	29.50	1.10	---	---	---	---
			M	29.17	29.50	1.08	0.096	---	0.104	---
			H	29.16	29.50	1.08	---	---	---	---
		Left tilt	L	29.08	29.50	1.10	---	---	---	---
			M	29.17	29.50	1.08	0.039	---	0.042	---
			H	29.16	29.50	1.08	---	---	---	---
		Right touch	L	29.08	29.50	1.10	---	---	---	---
			M	29.17	29.50	1.08	0.099	---	0.107	---
			H	29.16	29.50	1.08	---	---	---	---
		Right tilt	L	29.08	29.50	1.10	---	---	---	---
			M	29.17	29.50	1.08	0.058	---	0.063	---
			H	29.16	29.50	1.08	---	---	---	---
	Body-worn	Back	L	29.08	29.50	1.10	---	---	---	---
			M	29.17	29.50	1.08	0.478	---	0.516	---
			H	29.16	29.50	1.08	---	---	---	---
		Front	L	29.08	29.50	1.10	---	---	---	---
			M	29.17	29.50	1.08	0.224	---	0.242	---
			H	29.16	29.50	1.08	---	---	---	---
	Hotspot	Back	L	29.08	29.50	1.10	---	---	---	---
			M	29.17	29.50	1.08	0.478	---	0.516	---
			H	29.16	29.50	1.08	---	---	---	---
		Front	L	29.08	29.50	1.10	---	---	---	---
			M	29.17	29.50	1.08	0.224	---	0.242	---
			H	29.16	29.50	1.08	---	---	---	---
		Top	L	29.08	29.50	1.10	---	---	---	---
			M	29.17	29.50	1.08	---	---	---	---
			H	29.16	29.50	1.08	---	---	---	---
		Bottom	L	29.08	29.50	1.10	---	---	---	---
			M	29.17	29.50	1.08	0.149	---	0.161	---
			H	29.16	29.50	1.08	---	---	---	---
		Left	L	29.08	29.50	1.10	---	---	---	---
			M	29.17	29.50	1.08	0.072	---	0.078	---
			H	29.16	29.50	1.08	---	---	---	---
		Right	L	29.08	29.50	1.10	---	---	---	---
			M	29.17	29.50	1.08	0.096	---	0.104	---
			H	29.16	29.50	1.08	---	---	---	---

Mode: GSM1900

fL (MHz)=1850.2MHz

fM (MHz)=1880.0MHz

fH (MHz)=1909.8MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Test case				Meas power(dBm)	Tune-up(dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel				First	Second	First	Second
GPRS/EDGE GMSK 2slot	Head	Left touch	L	25.36	25.50	1.03	---	---	---	---
			M	25.24	25.50	1.06	0.476	---	0.505	---
			H	25.43	25.50	1.02	---	---	---	---
		Left tilt	L	25.36	25.50	1.03	---	---	---	---
			M	25.24	25.50	1.06	0.455	---	0.482	---
			H	25.43	25.50	1.02	---	---	---	---
		Right touch	L	25.36	25.50	1.03	---	---	---	---
			M	25.24	25.50	1.06	0.751	---	0.796	---
			H	25.43	25.50	1.02	---	---	---	---
		Right tilt	L	25.36	25.50	1.03	---	---	---	---
			M	25.24	25.50	1.06	0.391	---	0.414	---
			H	25.43	25.50	1.02	---	---	---	---
	Body-worn	Back	L	25.36	25.50	1.03	---	---	---	---
			M	25.24	25.50	1.06	0.280	---	0.297	---
			H	25.43	25.50	1.02	---	---	---	---
		Front	L	25.36	25.50	1.03	---	---	---	---
			M	25.24	25.50	1.06	0.212	---	0.225	---
			H	25.43	25.50	1.02	---	---	---	---
	Hotspot	Back	L	25.36	25.50	1.03	---	---	---	---
			M	25.24	25.50	1.06	0.280	---	0.297	---
			H	25.43	25.50	1.02	---	---	---	---
		Front	L	25.36	25.50	1.03	---	---	---	---
			M	25.24	25.50	1.06	0.212	---	0.225	---
			H	25.43	25.50	1.02	---	---	---	---
		Top	L	25.36	25.50	1.03	---	---	---	---
			M	25.24	25.50	1.06	0.182	---	0.193	---
			H	25.43	25.50	1.02	---	---	---	---
		Bottom	L	25.36	25.50	1.03	---	---	---	---
			M	25.24	25.50	1.06	---	---	---	---
			H	25.43	25.50	1.02	---	---	---	---
		Left	L	25.36	25.50	1.03	---	---	---	---
			M	25.24	25.50	1.06	0.167	---	0.177	---
			H	25.43	25.50	1.02	---	---	---	---
		Right	L	25.36	25.50	1.03	---	---	---	---
			M	25.24	25.50	1.06	0.057	---	0.060	---
			H	25.43	25.50	1.02	---	---	---	---

Mode: WCDMA BAND II

fL (MHz)= 1852.4MHz fM (MHz)= 1880.0MHz fH (MHz)= 1907.6MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Test case				Meas power(dBm)	Tune-up(dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel				First	Second	First	Second
Rel.99	Head	Left touch	L	19.71	20.00	1.07	---	---	---	---
			M	19.35	20.00	1.16	0.371	---	0.430	---
			H	19.44	20.00	1.14	---	---	---	---
		Left tilt	L	19.71	20.00	1.07	---	---	---	---
			M	19.35	20.00	1.16	0.334	---	0.387	---
			H	19.44	20.00	1.14	---	---	---	---
		Right touch	L	19.71	20.00	1.07	---	---	---	---
			M	19.35	20.00	1.16	0.483	---	0.560	---
			H	19.44	20.00	1.14	---	---	---	---
		Right tilt	L	19.71	20.00	1.07	---	---	---	---
			M	19.35	20.00	1.16	0.321	---	0.372	---
			H	19.44	20.00	1.14	---	---	---	---
	Body-worn	Back	L	23.71	24.00	1.07	---	---	---	---
			M	23.35	24.00	1.16	0.726	---	0.842	---
			H	23.44	24.00	1.14	---	---	---	---
		Front	L	23.71	24.00	1.07	---	---	---	---
			M	23.35	24.00	1.16	0.485	---	0.563	---
			H	23.44	24.00	1.14	---	---	---	---
	Hotspot	Back	L	23.71	24.00	1.07	---	---	---	---
			M	23.35	24.00	1.16	0.726	---	0.842	---
			H	23.44	24.00	1.14	---	---	---	---
		Front	L	23.71	24.00	1.07	---	---	---	---
			M	23.35	24.00	1.16	0.485	---	0.563	---
			H	23.44	24.00	1.14	---	---	---	---
		Top	L	23.71	24.00	1.07	---	---	---	---
			M	23.35	24.00	1.16	0.349	---	0.405	---
			H	23.44	24.00	1.14	---	---	---	---
		Bottom	L	23.71	24.00	1.07	---	---	---	---
			M	23.35	24.00	1.16	---	---	---	---
			H	23.44	24.00	1.14	---	---	---	---
		Left	L	23.71	24.00	1.07	---	---	---	---
			M	23.35	24.00	1.16	0.351	---	0.407	---
			H	23.44	24.00	1.14	---	---	---	---
		Right	L	23.71	24.00	1.07	---	---	---	---
			M	23.35	24.00	1.16	0.095	---	0.110	---
			H	23.44	24.00	1.14	---	---	---	---

Mode: WCDMA BAND IV

fL (MHz)=1712.4MHz

fM (MHz)=1732.4MHz

fH (MHz)= 1752.6MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Test case				Meas power(dBm)	Tune-up(dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel				First	Second	First	Second
Rel.99	Head	Left touch	L	19.45	20.00	1.14	---	---	---	---
			M	19.23	20.00	1.19	0.217	---	0.258	---
			H	19.23	20.00	1.19	---	---	---	---
		Left tilt	L	19.45	20.00	1.14	---	---	---	---
			M	19.23	20.00	1.19	0.239	---	0.284	---
			H	19.23	20.00	1.19	---	---	---	---
		Right touch	L	19.45	20.00	1.14	---	---	---	---
			M	19.23	20.00	1.19	0.359	---	0.427	---
			H	19.23	20.00	1.19	---	---	---	---
		Right tilt	L	19.45	20.00	1.14	---	---	---	---
			M	19.23	20.00	1.19	0.138	---	0.164	---
			H	19.23	20.00	1.19	---	---	---	---
	Body-worn	Back	L	23.45	24.00	1.14	---	---	---	---
			M	23.23	24.00	1.19	0.558	---	0.664	---
			H	23.23	24.00	1.19	---	---	---	---
		Front	L	23.45	24.00	1.14	---	---	---	---
			M	23.23	24.00	1.19	0.246	---	0.293	---
			H	23.23	24.00	1.19	---	---	---	---
	Hotspot	Back	L	23.45	24.00	1.14	---	---	---	---
			M	23.23	24.00	1.19	0.558	---	0.664	---
			H	23.23	24.00	1.19	---	---	---	---
		Front	L	23.45	24.00	1.14	---	---	---	---
			M	23.23	24.00	1.19	0.246	---	0.293	---
			H	23.23	24.00	1.19	---	---	---	---
		Top	L	23.45	24.00	1.14	---	---	---	---
			M	23.23	24.00	1.19	0.238	---	0.283	---
			H	23.23	24.00	1.19	---	---	---	---
		Bottom	L	23.45	24.00	1.14	---	---	---	---
			M	23.23	24.00	1.19	---	---	---	---
			H	23.23	24.00	1.19	---	---	---	---
		Left	L	23.45	24.00	1.14	---	---	---	---
			M	23.23	24.00	1.19	0.364	---	0.433	---
			H	23.23	24.00	1.19	---	---	---	---
		Right	L	23.45	24.00	1.14	---	---	---	---
			M	23.23	24.00	1.19	0.001	---	0.001	---
			H	23.23	24.00	1.19	---	---	---	---

Mode: WCDMA BAND V

fL (MHz)=826.4MHz

fM (MHz)=836.4MHz

fH (MHz)= 846.6MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Test case				Meas power(dBm)	Tune-up(dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel				First	Second	First	Second
Rel.99	Head	Left touch	L	23.53	24.00	1.11	---	---	---	---
			M	23.54	24.00	1.11	0.071	---	0.079	---
			H	23.59	24.00	1.10	---	---	---	---
		Left tilt	L	23.53	24.00	1.11	---	---	---	---
			M	23.54	24.00	1.11	0.029	---	0.032	---
			H	23.59	24.00	1.10	---	---	---	---
		Right touch	L	23.53	24.00	1.11	---	---	---	---
			M	23.54	24.00	1.11	0.073	---	0.081	---
			H	23.59	24.00	1.10	---	---	---	---
		Right tilt	L	23.53	24.00	1.11	---	---	---	---
			M	23.54	24.00	1.11	0.046	---	0.051	---
			H	23.59	24.00	1.10	---	---	---	---
	Body-worn	Back	L	23.53	24.00	1.11	---	---	---	---
			M	23.54	24.00	1.11	0.334	---	0.371	---
			H	23.59	24.00	1.10	---	---	---	---
		Front	L	23.53	24.00	1.11	---	---	---	---
			M	23.54	24.00	1.11	0.173	---	0.192	---
			H	23.59	24.00	1.10	---	---	---	---
	Hotspot	Back	L	23.53	24.00	1.11	---	---	---	---
			M	23.54	24.00	1.11	0.334	---	0.371	---
			H	23.59	24.00	1.10	---	---	---	---
		Front	L	23.53	24.00	1.11	---	---	---	---
			M	23.54	24.00	1.11	0.173	---	0.192	---
			H	23.59	24.00	1.10	---	---	---	---
		Top	L	23.53	24.00	1.11	---	---	---	---
			M	23.54	24.00	1.11	---	---	---	---
			H	23.59	24.00	1.10	---	---	---	---
		Bottom	L	23.53	24.00	1.11	---	---	---	---
			M	23.54	24.00	1.11	0.086	---	0.095	---
			H	23.59	24.00	1.10	---	---	---	---
		Left	L	23.53	24.00	1.11	---	---	---	---
			M	23.54	24.00	1.11	0.063	---	0.070	---
			H	23.59	24.00	1.10	---	---	---	---
		Right	L	23.53	24.00	1.11	---	---	---	---
			M	23.54	24.00	1.11	0.065	---	0.072	---
			H	23.59	24.00	1.10	---	---	---	---

Mode: LTE Band 2

fL (MHz)= 1860MHz

fM (MHz)= 1880MHz

fH (MHz)= 1900MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Mode	Test case			Meas power(dBm)	Tune-up(dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
	Exposure condition	Position	Channel				First	Second	First	Second
QPSK 1RB	Head	Left touch	L	20.20	20.50	1.07	---	---	---	---
			M	20.40	20.50	1.02	0.308	---	0.314	---
			H	20.50	20.50	1.00	---	---	---	---
		Left tilt	L	20.20	20.50	1.07	---	---	---	---
			M	20.40	20.50	1.02	0.349	---	0.356	---
			H	20.50	20.50	1.00	---	---	---	---
		Right touch	L	20.20	20.50	1.07	---	---	---	---
			M	20.40	20.50	1.02	0.578	---	0.590	---
			H	20.50	20.50	1.00	---	---	---	---
		Right tilt	L	20.20	20.50	1.07	---	---	---	---
			M	20.40	20.50	1.02	0.352	---	0.359	---
			H	20.50	20.50	1.00	---	---	---	---
	Body-worn	Back	L	24.20	24.50	1.07	---	---	---	---
			M	24.40	24.50	1.02	0.477	---	0.487	---
			H	24.50	24.50	1.00	---	---	---	---
		Front	L	24.20	24.50	1.07	---	---	---	---
			M	24.40	24.50	1.02	0.306	---	0.312	---
			H	24.50	24.50	1.00	---	---	---	---
	Hotspot	Back	L	24.20	24.50	1.07	---	---	---	---
			M	24.40	24.50	1.02	0.477	---	0.487	---
			H	24.50	24.50	1.00	---	---	---	---
		Front	L	24.20	24.50	1.07	---	---	---	---
			M	24.40	24.50	1.02	0.306	---	0.312	---
			H	24.50	24.50	1.00	---	---	---	---
		Top	L	24.20	24.50	1.07	---	---	---	---
			M	24.40	24.50	1.02	0.324	---	0.330	---
			H	24.50	24.50	1.00	---	---	---	---
		Bottom	L	24.20	24.50	1.07	---	---	---	---
			M	24.40	24.50	1.02	---	---	---	---
			H	24.50	24.50	1.00	---	---	---	---
		Left	L	24.20	24.50	1.07	---	---	---	---
			M	24.40	24.50	1.02	0.269	---	0.274	---
			H	24.50	24.50	1.00	---	---	---	---
		Right	L	24.20	24.50	1.07	---	---	---	---
			M	24.40	24.50	1.02	0.057	---	0.058	---
			H	24.50	24.50	1.00	---	---	---	---
QPSK 50%RB	Head	Left touch	L	19.20	19.50	1.07	---	---	---	---
			M	19.20	19.50	1.07	0.274	---	0.293	---
			H	19.40	19.50	1.02	---	---	---	---
		Left tilt	L	19.20	19.50	1.07	---	---	---	---
			M	19.20	19.50	1.07	0.281	---	0.301	---
			H	19.40	19.50	1.02	---	---	---	---
		Right touch	L	19.20	19.50	1.07	---	---	---	---
			M	19.20	19.50	1.07	0.496	---	0.531	---
			H	19.40	19.50	1.02	---	---	---	---
		Right tilt	L	19.20	19.50	1.07	---	---	---	---
			M	19.20	19.50	1.07	0.312	---	0.334	---
			H	19.40	19.50	1.02	---	---	---	---
	Body-worn	Back	L	23.20	23.50	1.07	---	---	---	---
			M	23.20	23.50	1.07	0.342	---	0.366	---
			H	23.40	23.50	1.02	---	---	---	---
		Front	L	23.20	23.50	1.07	---	---	---	---
			M	23.20	23.50	1.07	0.228	---	0.244	---
			H	23.40	23.50	1.02	---	---	---	---
	Hotspot	Back	L	23.20	23.50	1.07	---	---	---	---
			M	23.20	23.50	1.07	0.342	---	0.366	---
			H	23.40	23.50	1.02	---	---	---	---
		Front	L	23.20	23.50	1.07	---	---	---	---
			M	23.20	23.50	1.07	0.228	---	0.244	---
			H	23.40	23.50	1.02	---	---	---	---
		Top	L	23.20	23.50	1.07	---	---	---	---
			M	23.20	23.50	1.07	0.214	---	0.229	---
			H	23.40	23.50	1.02	---	---	---	---

		Bottom	L	23.20	23.50	1.07	---	---	---	---
			M	23.20	23.50	1.07	---	---	---	---
			H	23.40	23.50	1.02	---	---	---	---
		Left	L	23.20	23.50	1.07	---	---	---	---
			M	23.20	23.50	1.07	0.213	---	0.228	---
			H	23.40	23.50	1.02	---	---	---	---
		Right	L	23.20	23.50	1.07	---	---	---	---
			M	23.20	23.50	1.07	0.048	---	0.051	---
			H	23.40	23.50	1.02	---	---	---	---

Mode: LTE Band 4

fL (MHz)= 1720MHz

fM (MHz)= 1732.5MHz

fH (MHz)= 1745MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Test case				Meas power(dBm)	Tune-up(dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel				First	Second	First	Second
QPSK 1RB	Head	Left touch	L	19.40	20.00	1.15	---	---	---	---
			M	19.30	20.00	1.17	0.289	---	0.338	---
			H	19.10	20.00	1.23	---	---	---	---
		Left tilt	L	19.40	20.00	1.15	---	---	---	---
			M	19.30	20.00	1.17	0.167	---	0.195	---
			H	19.10	20.00	1.23	---	---	---	---
		Right touch	L	19.40	20.00	1.15	---	---	---	---
			M	19.30	20.00	1.17	0.292	---	0.342	---
			H	19.10	20.00	1.23	---	---	---	---
		Right tilt	L	19.40	20.00	1.15	---	---	---	---
			M	19.30	20.00	1.17	0.196	---	0.229	---
			H	19.10	20.00	1.23	---	---	---	---
	Body-worn	Back	L	23.40	23.50	1.02	---	---	---	---
			M	23.30	23.50	1.05	0.300	---	0.315	---
			H	23.10	23.50	1.10	---	---	---	---
		Front	L	23.40	23.50	1.02	---	---	---	---
			M	23.30	23.50	1.05	0.199	---	0.209	---
			H	23.10	23.50	1.10	---	---	---	---
	Hotspot	Back	L	23.40	23.50	1.02	---	---	---	---
			M	23.30	23.50	1.05	0.300	---	0.315	---
			H	23.10	23.50	1.10	---	---	---	---
		Front	L	23.40	23.50	1.02	---	---	---	---
			M	23.30	23.50	1.05	0.199	---	0.209	---
			H	23.10	23.50	1.10	---	---	---	---
		Top	L	23.40	23.50	1.02	---	---	---	---
			M	23.30	23.50	1.05	0.261	---	0.274	---
			H	23.10	23.50	1.10	---	---	---	---
		Bottom	L	23.40	23.50	1.02	---	---	---	---
			M	23.30	23.50	1.05	---	---	---	---
			H	23.10	23.50	1.10	---	---	---	---
QPSK 50%RB	Head	Left touch	L	18.00	18.50	1.12	---	---	---	---
			M	18.10	18.50	1.10	0.245	---	0.270	---
			H	17.90	18.50	1.15	---	---	---	---
		Left tilt	L	18.00	18.50	1.12	---	---	---	---
			M	18.10	18.50	1.10	0.143	---	0.157	---
			H	17.90	18.50	1.15	---	---	---	---
		Right touch	L	18.00	18.50	1.12	---	---	---	---
			M	18.10	18.50	1.10	0.248	---	0.273	---
			H	17.90	18.50	1.15	---	---	---	---
		Right tilt	L	18.00	18.50	1.12	---	---	---	---
			M	18.10	18.50	1.10	0.181	---	0.199	---
			H	17.90	18.50	1.15	---	---	---	---
	Body-worn	Back	L	22.00	22.50	1.12	---	---	---	---
			M	22.10	22.50	1.10	0.241	---	0.265	---
			H	21.90	22.50	1.15	---	---	---	---
		Front	L	22.00	22.50	1.12	---	---	---	---
			M	22.10	22.50	1.10	0.156	---	0.172	---
			H	21.90	22.50	1.15	---	---	---	---
	Hotspot	Back	L	22.00	22.50	1.12	---	---	---	---
			M	22.10	22.50	1.10	0.241	---	0.265	---
			H	21.90	22.50	1.15	---	---	---	---
		Front	L	22.00	22.50	1.12	---	---	---	---
			M	22.10	22.50	1.10	0.156	---	0.172	---
			H	21.90	22.50	1.15	---	---	---	---
		Top	L	22.00	22.50	1.12	---	---	---	---
			M	22.10	22.50	1.10	0.198	---	0.218	---
			H	21.90	22.50	1.15	---	---	---	---

		Bottom	L	22.00	22.50	1.12	---	---	---	---
			M	22.10	22.50	1.10	---	---	---	---
			H	21.90	22.50	1.15	---	---	---	---
		Left	L	22.00	22.50	1.12	---	---	---	---
			M	22.10	22.50	1.10	0.158	---	0.174	---
			H	21.90	22.50	1.15	---	---	---	---
		Right	L	22.00	22.50	1.12	---	---	---	---
			M	22.10	22.50	1.10	0.017	---	0.019	---
			H	21.90	22.50	1.15	---	---	---	---

Mode: LTE Band 5

fL (MHz)=829 MHz

fM (MHz)=836.5MHz

fH (MHz)= 844MHz

Limit of SAR (W/kg) : <1.6W/kg (1g Average)

Mode	Test case			Meas power(dBm)	Tune-up(dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
	Exposure condition	Position	Channel				First	Second	First	Second
QPSK 1RB	Head	Left touch	L	23.20	24.00	1.20	---	---	---	---
			M	23.60	24.00	1.10	0.079	---	0.087	---
			H	23.60	24.00	1.10	---	---	---	---
		Left tilt	L	23.20	24.00	1.20	---	---	---	---
			M	23.60	24.00	1.10	0.023	---	0.025	---
			H	23.60	24.00	1.10	---	---	---	---
		Right touch	L	23.20	24.00	1.20	---	---	---	---
			M	23.60	24.00	1.10	0.046	---	0.051	---
			H	23.60	24.00	1.10	---	---	---	---
		Right tilt	L	23.20	24.00	1.20	---	---	---	---
			M	23.60	24.00	1.10	0.031	---	0.034	---
			H	23.60	24.00	1.10	---	---	---	---
	Body-worn	Back	L	23.20	24.00	1.20	---	---	---	---
			M	23.60	24.00	1.10	0.312	---	0.343	---
			H	23.60	24.00	1.10	---	---	---	---
		Front	L	23.20	24.00	1.20	---	---	---	---
			M	23.60	24.00	1.10	0.193	---	0.212	---
			H	23.60	24.00	1.10	---	---	---	---
	Hotspot	Back	L	23.20	24.00	1.20	---	---	---	---
			M	23.60	24.00	1.10	0.312	---	0.343	---
			H	23.60	24.00	1.10	---	---	---	---
		Front	L	23.20	24.00	1.20	---	---	---	---
			M	23.60	24.00	1.10	0.193	---	0.212	---
			H	23.60	24.00	1.10	---	---	---	---
		Top	L	23.20	24.00	1.20	---	---	---	---
			M	23.60	24.00	1.10	---	---	---	---
			H	23.60	24.00	1.10	---	---	---	---
		Bottom	L	23.20	24.00	1.20	---	---	---	---
			M	23.60	24.00	1.10	0.111	---	0.122	---
			H	23.60	24.00	1.10	---	---	---	---
		Left	L	23.20	24.00	1.20	---	---	---	---
			M	23.60	24.00	1.10	0.067	---	0.074	---
			H	23.60	24.00	1.10	---	---	---	---
		Right	L	23.20	24.00	1.20	---	---	---	---
			M	23.60	24.00	1.10	0.064	---	0.070	---
			H	23.60	24.00	1.10	---	---	---	---
QPSK 50%RB	Head	Left touch	L	22.30	23.00	1.17	---	---	---	---
			M	22.50	23.00	1.12	0.063	---	0.071	---
			H	22.60	23.00	1.10	---	---	---	---
		Left tilt	L	22.30	23.00	1.17	---	---	---	---
			M	22.50	23.00	1.12	0.018	---	0.020	---
			H	22.60	23.00	1.10	---	---	---	---
		Right touch	L	22.30	23.00	1.17	---	---	---	---
			M	22.50	23.00	1.12	0.037	---	0.041	---
			H	22.60	23.00	1.10	---	---	---	---
		Right tilt	L	22.30	23.00	1.17	---	---	---	---
			M	22.50	23.00	1.12	0.024	---	0.027	---
			H	22.60	23.00	1.10	---	---	---	---
	Body-worn	Back	L	22.30	23.00	1.17	---	---	---	---
			M	22.50	23.00	1.12	0.268	---	0.300	---
			H	22.60	23.00	1.10	---	---	---	---
		Front	L	22.30	23.00	1.17	---	---	---	---
			M	22.50	23.00	1.12	0.142	---	0.159	---
			H	22.60	23.00	1.10	---	---	---	---
	Hotspot	Back	L	22.30	23.00	1.17	---	---	---	---
			M	22.50	23.00	1.12	0.268	---	0.300	---
			H	22.60	23.00	1.10	---	---	---	---
		Front	L	22.30	23.00	1.17	---	---	---	---
			M	22.50	23.00	1.12	0.142	---	0.159	---
			H	22.60	23.00	1.10	---	---	---	---
		Top	L	22.30	23.00	1.17	---	---	---	---
			M	22.50	23.00	1.12	---	---	---	---
			H	22.60	23.00	1.10	---	---	---	---

		Bottom	L	22.30	23.00	1.17	---	---	---	---
			M	22.50	23.00	1.12	0.083	---	0.093	---
			H	22.60	23.00	1.10	---	---	---	---
		Left	L	22.30	23.00	1.17	---	---	---	---
			M	22.50	23.00	1.12	0.052	---	0.058	---
			H	22.60	23.00	1.10	---	---	---	---
		Right	L	22.30	23.00	1.17	---	---	---	---
			M	22.50	23.00	1.12	0.047	---	0.053	---
			H	22.60	23.00	1.10	---	---	---	---

Mode: LTE Band 7

fL (MHz)=2510 MHz

fM (MHz)=2535MHz

fH (MHz)= 2560MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Test case				Meas power(dBm)	Tune-up(dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel				First	Second	First	Second
QPSK 1RB	Head	Left touch	L	19.43	20.50	1.28	---	---	---	---
			M	19.93	20.50	1.14	0.351	---	0.400	---
			H	20.43	20.50	1.02	---	---	---	---
		Left tilt	L	19.43	20.50	1.28	---	---	---	---
			M	19.93	20.50	1.14	0.096	---	0.109	---
			H	20.43	20.50	1.02	---	---	---	---
		Right touch	L	19.43	20.50	1.28	---	---	---	---
			M	19.93	20.50	1.14	0.544	---	0.620	---
			H	20.43	20.50	1.02	---	---	---	---
		Right tilt	L	19.43	20.50	1.28	---	---	---	---
			M	19.93	20.50	1.14	0.148	---	0.169	---
			H	20.43	20.50	1.02	---	---	---	---
	Body-worn	Back	L	22.43	23.50	1.28	0.662	---	0.847	---
			M	22.93	23.50	1.14	0.793	0.789	0.904	0.899
			H	23.43	23.50	1.02	0.760	---	0.775	---
		Front	L	22.43	23.50	1.28	---	---	---	---
			M	22.93	23.50	1.14	0.329	---	0.375	---
			H	23.43	23.50	1.02	---	---	---	---
	Hotspot	Back	L	19.43	20.50	1.28	---	---	---	---
			M	19.93	20.50	1.14	0.425	---	0.485	---
			H	20.43	20.50	1.02	---	---	---	---
		Front	L	19.43	20.50	1.28	---	---	---	---
			M	19.93	20.50	1.14	0.167	---	0.190	---
			H	20.43	20.50	1.02	---	---	---	---
		Top	L	19.43	20.50	1.28	---	---	---	---
			M	19.93	20.50	1.14	0.058	---	0.066	---
			H	20.43	20.50	1.02	---	---	---	---
		Bottom	L	19.43	20.50	1.28	---	---	---	---
			M	19.93	20.50	1.14	---	---	---	---
			H	20.43	20.50	1.02	---	---	---	---
		Left	L	19.43	20.50	1.28	---	---	---	---
			M	19.93	20.50	1.14	0.256	---	0.292	---
			H	20.43	20.50	1.02	---	---	---	---
		Right	L	19.43	20.50	1.28	---	---	---	---
			M	19.93	20.50	1.14	0.031	---	0.035	---
			H	20.43	20.50	1.02	---	---	---	---
QPSK 50%RB	Head	Left touch	L	18.35	20.50	1.64	---	---	---	---
			M	19.17	20.50	1.36	0.328	---	0.446	---
			H	19.33	20.50	1.31	---	---	---	---
		Left tilt	L	18.35	20.50	1.64	---	---	---	---
			M	19.17	20.50	1.36	0.087	---	0.118	---
			H	19.33	20.50	1.31	---	---	---	---
		Right touch	L	18.35	20.50	1.64	---	---	---	---
			M	19.17	20.50	1.36	0.486	---	0.661	---
			H	19.33	20.50	1.31	---	---	---	---
		Right tilt	L	18.35	20.50	1.64	---	---	---	---
			M	19.17	20.50	1.36	0.117	---	0.159	---
			H	19.33	20.50	1.31	---	---	---	---
	Body-worn	Back	L	21.35	22.50	1.30	---	---	---	---
			M	22.17	22.50	1.08	0.632	---	0.683	---
			H	22.33	22.50	1.04	---	---	---	---
		Front	L	21.35	22.50	1.30	---	---	---	---
			M	22.17	22.50	1.08	0.276	---	0.298	---
			H	22.33	22.50	1.04	---	---	---	---
	Hotspot	Back	L	18.35	20.50	1.64	---	---	---	---
			M	19.17	20.50	1.36	0.327	---	0.445	---
			H	19.33	20.50	1.31	---	---	---	---
		Front	L	18.35	20.50	1.64	---	---	---	---
			M	19.17	20.50	1.36	0.147	---	0.200	---
			H	19.33	20.50	1.31	---	---	---	---
		Top	L	18.35	20.50	1.64	---	---	---	---
			M	19.17	20.50	1.36	0.047	---	0.064	---

		Bottom	H	19.33	20.50	1.31	---	---	---	---
			L	18.35	20.50	1.64	---	---	---	---
			M	19.17	20.50	1.36	---	---	---	---
		Left	H	19.33	20.50	1.31	---	---	---	---
			L	18.35	20.50	1.64	---	---	---	---
			M	19.17	20.50	1.36	0.214	---	0.291	---
		Right	H	19.33	20.50	1.31	---	---	---	---
			L	18.35	20.50	1.64	---	---	---	---
			M	19.17	20.50	1.36	0.028	---	0.038	---
QPSK 100%RB	Body-worn	Back	H	19.33	20.50	1.31	---	---	---	---
			L	21.80	22.50	1.17	---	---	---	---
			M	21.99	22.50	1.12	0.546	---	0.612	---
			H	22.41	22.50	1.02	---	---	---	---

Mode: LTE Band CA_7C

fL (MHz)=2510 MHz

fM (MHz)=2535MHz

fH (MHz)= 2560MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Test case				Meas power(dBm)	Tune-up(dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel				First	Second	First	Second
QPSK 1RB PCC 1RB@99 SCC 1RB@0	Head	Left touch	L	19.31	19.50	1.04	---	---	---	---
			M	19.31	19.50	1.04	0.263	---	0.274	---
			H	18.88	19.50	1.15	---	---	---	---
		Left tilt	L	19.31	19.50	1.04	---	---	---	---
			M	19.31	19.50	1.04	0.127	---	0.132	---
			H	18.88	19.50	1.15	---	---	---	---
		Right touch	L	19.31	19.50	1.04	---	---	---	---
			M	19.31	19.50	1.04	0.640	---	0.666	---
			H	18.88	19.50	1.15	---	---	---	---
		Right tilt	L	19.31	19.50	1.04	---	---	---	---
			M	19.31	19.50	1.04	0.149	---	0.155	---
			H	18.88	19.50	1.15	---	---	---	---
	Body-worn	Back	L	19.31	19.50	1.04	---	---	---	---
			M	19.31	19.50	1.04	0.461	---	0.479	---
			H	18.88	19.50	1.15	---	---	---	---
		Front	L	19.31	19.50	1.04	---	---	---	---
			M	19.31	19.50	1.04	0.243	---	0.253	---
			H	18.88	19.50	1.15	---	---	---	---
	Hotspot	Back	L	19.31	19.50	1.04	---	---	---	---
			M	19.31	19.50	1.04	0.461	---	0.479	---
			H	18.88	19.50	1.15	---	---	---	---
		Front	L	19.31	19.50	1.04	---	---	---	---
			M	19.31	19.50	1.04	0.243	---	0.253	---
			H	18.88	19.50	1.15	---	---	---	---
		Top	L	19.31	19.50	1.04	---	---	---	---
			M	19.31	19.50	1.04	0.098	---	0.102	---
			H	18.88	19.50	1.15	---	---	---	---
		Bottom	L	19.31	19.50	1.04	---	---	---	---
			M	19.31	19.50	1.04	---	---	---	---
			H	18.88	19.50	1.15	---	---	---	---
		Left	L	19.31	19.50	1.04	---	---	---	---
			M	19.31	19.50	1.04	0.325	---	0.338	---
			H	18.88	19.50	1.15	---	---	---	---
		Right	L	19.31	19.50	1.04	---	---	---	---
			M	19.31	19.50	1.04	0.049	---	0.051	---
			H	18.88	19.50	1.15	---	---	---	---

Mode: LTE Band 12

fL (MHz)=704 MHz

fM (MHz)=707.5MHz

fH (MHz)= 711MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Mode	Test case			Meas power(dBm)	Tune-up(dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
	Exposure condition	Position	Channel				First	Second	First	Second
QPSK 1RB	Head	Left touch	L	23.50	24.00	1.12	---	---	---	---
			M	23.60	24.00	1.10	0.091	---	0.100	---
			H	23.70	24.00	1.07	---	---	---	---
		Left tilt	L	23.50	24.00	1.12	---	---	---	---
			M	23.60	24.00	1.10	0.032	---	0.035	---
			H	23.70	24.00	1.07	---	---	---	---
		Right touch	L	23.50	24.00	1.12	---	---	---	---
			M	23.60	24.00	1.10	0.094	---	0.103	---
			H	23.70	24.00	1.07	---	---	---	---
		Right tilt	L	23.50	24.00	1.12	---	---	---	---
			M	23.60	24.00	1.10	0.062	---	0.068	---
			H	23.70	24.00	1.07	---	---	---	---
	Body-worn	Back	L	23.50	24.00	1.12	---	---	---	---
			M	23.60	24.00	1.10	0.226	---	0.249	---
			H	23.70	24.00	1.07	---	---	---	---
		Front	L	23.50	24.00	1.12	---	---	---	---
			M	23.60	24.00	1.10	0.097	---	0.107	---
			H	23.70	24.00	1.07	---	---	---	---
	Hotspot	Back	L	23.50	24.00	1.12	---	---	---	---
			M	23.60	24.00	1.10	0.226	---	0.249	---
			H	23.70	24.00	1.07	---	---	---	---
		Front	L	23.50	24.00	1.12	---	---	---	---
			M	23.60	24.00	1.10	0.097	---	0.107	---
			H	23.70	24.00	1.07	---	---	---	---
		Top	L	23.50	24.00	1.12	---	---	---	---
			M	23.60	24.00	1.10	---	---	---	---
			H	23.70	24.00	1.07	---	---	---	---
		Bottom	L	23.50	24.00	1.12	---	---	---	---
			M	23.60	24.00	1.10	0.010	---	0.011	---
			H	23.70	24.00	1.07	---	---	---	---
		Left	L	23.50	24.00	1.12	---	---	---	---
			M	23.60	24.00	1.10	0.067	---	0.074	---
			H	23.70	24.00	1.07	---	---	---	---
		Right	L	23.50	24.00	1.12	---	---	---	---
			M	23.60	24.00	1.10	0.196	---	0.216	---
			H	23.70	24.00	1.07	---	---	---	---
QPSK 50%RB	Head	Left touch	L	22.50	23.00	1.12	---	---	---	---
			M	22.70	23.00	1.07	0.074	---	0.079	---
			H	22.70	23.00	1.07	---	---	---	---
		Left tilt	L	22.50	23.00	1.12	---	---	---	---
			M	22.70	23.00	1.07	0.026	---	0.028	---
			H	22.70	23.00	1.07	---	---	---	---
		Right touch	L	22.50	23.00	1.12	---	---	---	---
			M	22.70	23.00	1.07	0.085	---	0.091	---
			H	22.70	23.00	1.07	---	---	---	---
		Right tilt	L	22.50	23.00	1.12	---	---	---	---
			M	22.70	23.00	1.07	0.046	---	0.049	---
			H	22.70	23.00	1.07	---	---	---	---
	Body-worn	Back	L	22.50	23.00	1.12	---	---	---	---
			M	22.70	23.00	1.07	0.183	---	0.196	---
			H	22.70	23.00	1.07	---	---	---	---
		Front	L	22.50	23.00	1.12	---	---	---	---
			M	22.70	23.00	1.07	0.079	---	0.085	---
			H	22.70	23.00	1.07	---	---	---	---
	Hotspot	Back	L	22.50	23.00	1.12	---	---	---	---
			M	22.70	23.00	1.07	0.183	---	0.196	---
			H	22.70	23.00	1.07	---	---	---	---
		Front	L	22.50	23.00	1.12	---	---	---	---
			M	22.70	23.00	1.07	0.079	---	0.085	---
			H	22.70	23.00	1.07	---	---	---	---
		Top	L	22.50	23.00	1.12	---	---	---	---
			M	22.70	23.00	1.07	---	---	---	---
			H	22.70	23.00	1.07	---	---	---	---

		Bottom	L	22.50	23.00	1.12	---	---	---	---
			M	22.70	23.00	1.07	0.052	---	0.056	---
			H	22.70	23.00	1.07	---	---	---	---
		Left	L	22.50	23.00	1.12	---	---	---	---
			M	22.70	23.00	1.07	0.052	---	0.056	---
			H	22.70	23.00	1.07	---	---	---	---
		Right	L	22.50	23.00	1.12	---	---	---	---
			M	22.70	23.00	1.07	0.147	---	0.157	---
			H	22.70	23.00	1.07	---	---	---	---

Mode: LTE Band 17

fL (MHz)=709 MHz fM (MHz)=710MHz fH (MHz)= 711MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Mode	Test case			Meas power(dBm)	Tune-up(dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
	Exposure condition	Position	Channel				First	Second	First	Second
QPSK 1RB	Head	Left touch	L	23.60	24.00	1.10	---	---	---	---
			M	23.60	24.00	1.10	0.115	---	0.127	---
			H	23.80	24.00	1.05	---	---	---	---
		Left tilt	L	23.60	24.00	1.10	---	---	---	---
			M	23.60	24.00	1.10	0.034	---	0.037	---
			H	23.80	24.00	1.05	---	---	---	---
		Right touch	L	23.60	24.00	1.10	---	---	---	---
			M	23.60	24.00	1.10	0.092	---	0.101	---
			H	23.80	24.00	1.05	---	---	---	---
		Right tilt	L	23.60	24.00	1.10	---	---	---	---
			M	23.60	24.00	1.10	0.047	---	0.052	---
			H	23.80	24.00	1.05	---	---	---	---
	Body-worn	Back	L	23.60	24.00	1.10	---	---	---	---
			M	23.60	24.00	1.10	0.206	---	0.227	---
			H	23.80	24.00	1.05	---	---	---	---
		Front	L	23.60	24.00	1.10	---	---	---	---
			M	23.60	24.00	1.10	0.101	---	0.111	---
			H	23.80	24.00	1.05	---	---	---	---
	Hotspot	Back	L	23.60	24.00	1.10	---	---	---	---
			M	23.60	24.00	1.10	0.206	---	0.227	---
			H	23.80	24.00	1.05	---	---	---	---
		Front	L	23.60	24.00	1.10	---	---	---	---
			M	23.60	24.00	1.10	0.101	---	0.111	---
			H	23.80	24.00	1.05	---	---	---	---
		Top	L	23.60	24.00	1.10	---	---	---	---
			M	23.60	24.00	1.10	---	---	---	---
			H	23.80	24.00	1.05	---	---	---	---
		Bottom	L	23.60	24.00	1.10	---	---	---	---
			M	23.60	24.00	1.10	0.010	---	0.011	---
			H	23.80	24.00	1.05	---	---	---	---
		Left	L	23.60	24.00	1.10	---	---	---	---
			M	23.60	24.00	1.10	0.073	---	0.080	---
			H	23.80	24.00	1.05	---	---	---	---
		Right	L	23.60	24.00	1.10	---	---	---	---
			M	23.60	24.00	1.10	0.203	---	0.223	---
			H	23.80	24.00	1.05	---	---	---	---
QPSK 50%RB	Head	Left touch	L	22.70	23.00	1.07	---	---	---	---
			M	22.50	23.00	1.12	0.098	---	0.110	---
			H	22.70	23.00	1.07	---	---	---	---
		Left tilt	L	22.70	23.00	1.07	---	---	---	---
			M	22.50	23.00	1.12	0.024	---	0.027	---
			H	22.70	23.00	1.07	---	---	---	---
		Right touch	L	22.70	23.00	1.07	---	---	---	---
			M	22.50	23.00	1.12	0.067	---	0.075	---
			H	22.70	23.00	1.07	---	---	---	---
		Right tilt	L	22.70	23.00	1.07	---	---	---	---
			M	22.50	23.00	1.12	0.026	---	0.029	---
			H	22.70	23.00	1.07	---	---	---	---
	Body-worn	Back	L	22.70	23.00	1.07	---	---	---	---
			M	22.50	23.00	1.12	0.191	---	0.214	---
			H	22.70	23.00	1.07	---	---	---	---
		Front	L	22.70	23.00	1.07	---	---	---	---
			M	22.50	23.00	1.12	0.082	---	0.092	---
			H	22.70	23.00	1.07	---	---	---	---
	Hotspot	Back	L	22.70	23.00	1.07	---	---	---	---
			M	22.50	23.00	1.12	0.191	---	0.214	---
			H	22.70	23.00	1.07	---	---	---	---
		Front	L	22.70	23.00	1.07	---	---	---	---
			M	22.50	23.00	1.12	0.082	---	0.092	---
			H	22.70	23.00	1.07	---	---	---	---
		Top	L	22.70	23.00	1.07	---	---	---	---
			M	22.50	23.00	1.12	---	---	---	---
			H	22.70	23.00	1.07	---	---	---	---

		Bottom	L	22.70	23.00	1.07	---	---	---	---
			M	22.50	23.00	1.12	0.010	---	0.011	---
			H	22.70	23.00	1.07	---	---	---	---
		Left	L	22.70	23.00	1.07	---	---	---	---
			M	22.50	23.00	1.12	0.061	---	0.068	---
			H	22.70	23.00	1.07	---	---	---	---
		Right	L	22.70	23.00	1.07	---	---	---	---
			M	22.50	23.00	1.12	0.162	---	0.181	---
			H	22.70	23.00	1.07	---	---	---	---

Mode: LTE Band 26

fL (MHz)= 821.5 MHz

fM (MHz)= 831.5MHz

fH (MHz)= 841.5MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Mode	Test case			Meas power(dBm)	Tune-up(dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
	Exposure condition	Position	Channel				First	Second	First	Second
QPSK 1RB	Head	Left touch	L	---	---	---	---	---	---	---
			M	23.50	24.00	1.12	0.104	---	0.116	---
			H	---	---	---	---	---	---	---
		Left tilt	L	---	---	---	---	---	---	---
			M	23.50	24.00	1.12	0.037	---	0.041	---
			H	---	---	---	---	---	---	---
		Right touch	L	---	---	---	---	---	---	---
			M	23.50	24.00	1.12	0.062	---	0.069	---
			H	---	---	---	---	---	---	---
		Right tilt	L	---	---	---	---	---	---	---
			M	23.50	24.00	1.12	0.040	---	0.045	---
			H	---	---	---	---	---	---	---
	Body-worn	Back	L	---	---	---	---	---	---	---
			M	23.50	24.00	1.12	0.264	---	0.296	---
			H	---	---	---	---	---	---	---
		Front	L	---	---	---	---	---	---	---
			M	23.50	24.00	1.12	0.209	---	0.234	---
			H	---	---	---	---	---	---	---
	Hotspot	Back	L	---	---	---	---	---	---	---
			M	23.50	24.00	1.12	0.264	---	0.296	---
			H	---	---	---	---	---	---	---
		Front	L	---	---	---	---	---	---	---
			M	23.50	24.00	1.12	0.209	---	0.234	---
			H	---	---	---	---	---	---	---
		Top	L	---	---	---	---	---	---	---
			M	23.50	24.00	1.12	---	---	---	---
			H	---	---	---	---	---	---	---
		Bottom	L	---	---	---	---	---	---	---
			M	23.50	24.00	1.12	0.090	---	0.101	---
			H	---	---	---	---	---	---	---
		Left	L	---	---	---	---	---	---	---
			M	23.50	24.00	1.12	0.075	---	0.084	---
			H	---	---	---	---	---	---	---
		Right	L	---	---	---	---	---	---	---
			M	23.50	24.00	1.12	0.073	---	0.082	---
			H	---	---	---	---	---	---	---
QPSK 50%RB	Head	Left touch	L	---	---	---	---	---	---	---
			M	22.50	23.00	1.12	0.085	---	0.095	---
			H	---	---	---	---	---	---	---
		Left tilt	L	---	---	---	---	---	---	---
			M	22.50	23.00	1.12	0.019	---	0.021	---
			H	---	---	---	---	---	---	---
		Right touch	L	---	---	---	---	---	---	---
			M	22.50	23.00	1.12	0.054	---	0.060	---
			H	---	---	---	---	---	---	---
		Right tilt	L	---	---	---	---	---	---	---
			M	22.50	23.00	1.12	0.031	---	0.035	---
			H	---	---	---	---	---	---	---
	Body-worn	Back	L	---	---	---	---	---	---	---
			M	22.50	23.00	1.12	0.204	---	0.228	---
			H	---	---	---	---	---	---	---
		Front	L	---	---	---	---	---	---	---
			M	22.50	23.00	1.12	0.157	---	0.176	---
			H	---	---	---	---	---	---	---
	Hotspot	Back	L	---	---	---	---	---	---	---
			M	22.50	23.00	1.12	0.204	---	0.228	---
			H	---	---	---	---	---	---	---
		Front	L	---	---	---	---	---	---	---
			M	22.50	23.00	1.12	0.157	---	0.176	---
			H	---	---	---	---	---	---	---
		Top	L	---	---	---	---	---	---	---
			M	22.50	23.00	1.12	---	---	---	---
			H	---	---	---	---	---	---	---

		Bottom	L	---	---	---	---	---	---	---
			M	22.50	23.00	1.12	0.074	---	0.083	---
			H	---	---	---	---	---	---	---
		Left	L	---	---	---	---	---	---	---
			M	22.50	23.00	1.12	0.058	---	0.065	---
			H	---	---	---	---	---	---	---
		Right	L	---	---	---	---	---	---	---
			M	22.50	23.00	1.12	0.057	---	0.064	---
			H	---	---	---	---	---	---	---

Mode: LTE Band 66

fL (MHz)= 1720 MHz

fM (MHz)= 1745MHz

fH (MHz)= 1770MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Mode	Test case			Meas power(dBm)	Tune-up(dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
	Exposure condition	Position	Channel				First	Second	First	Second
QPSK 1RB	Head	Left touch	L	23.98	24.50	1.13	---	---	---	---
			M	23.97	24.50	1.13	0.410	---	0.463	---
			H	24.28	24.50	1.05	---	---	---	---
		Left tilt	L	23.98	24.50	1.13	---	---	---	---
			M	23.97	24.50	1.13	0.382	---	0.432	---
			H	24.28	24.50	1.05	---	---	---	---
		Right touch	L	23.98	24.50	1.13	---	---	---	---
			M	23.97	24.50	1.13	0.657	---	0.742	---
			H	24.28	24.50	1.05	---	---	---	---
		Right tilt	L	23.98	24.50	1.13	---	---	---	---
			M	23.97	24.50	1.13	0.353	---	0.399	---
			H	24.28	24.50	1.05	---	---	---	---
	Body-worn	Back	L	23.98	24.50	1.13	---	---	---	---
			M	23.97	24.50	1.13	0.291	---	0.329	---
			H	24.28	24.50	1.05	---	---	---	---
		Front	L	23.98	24.50	1.13	---	---	---	---
			M	23.97	24.50	1.13	0.148	---	0.167	---
			H	24.28	24.50	1.05	---	---	---	---
	Hotspot	Back	L	23.98	24.50	1.13	---	---	---	---
			M	23.97	24.50	1.13	0.291	---	0.329	---
			H	24.28	24.50	1.05	---	---	---	---
		Front	L	23.98	24.50	1.13	---	---	---	---
			M	23.97	24.50	1.13	0.148	---	0.167	---
			H	24.28	24.50	1.05	---	---	---	---
		Top	L	23.98	24.50	1.13	---	---	---	---
			M	23.97	24.50	1.13	0.149	---	0.168	---
			H	24.28	24.50	1.05	---	---	---	---
		Bottom	L	23.98	24.50	1.13	---	---	---	---
			M	23.97	24.50	1.13	---	---	---	---
			H	24.28	24.50	1.05	---	---	---	---
		Left	L	23.98	24.50	1.13	---	---	---	---
			M	23.97	24.50	1.13	0.225	---	0.254	---
			H	24.28	24.50	1.05	---	---	---	---
		Right	L	23.98	24.50	1.13	---	---	---	---
			M	23.97	24.50	1.13	0.022	---	0.025	---
			H	24.28	24.50	1.05	---	---	---	---
QPSK 50%RB	Head	Left touch	L	22.89	23.50	1.15	---	---	---	---
			M	22.84	23.50	1.16	0.354	---	0.411	---
			H	23.12	23.50	1.09	---	---	---	---
		Left tilt	L	22.89	23.50	1.15	---	---	---	---
			M	22.84	23.50	1.16	0.315	---	0.365	---
			H	23.12	23.50	1.09	---	---	---	---
		Right touch	L	22.89	23.50	1.15	---	---	---	---
			M	22.84	23.50	1.16	0.527	---	0.611	---
			H	23.12	23.50	1.09	---	---	---	---
		Right tilt	L	22.89	23.50	1.15	---	---	---	---
			M	22.84	23.50	1.16	0.296	---	0.343	---
			H	23.12	23.50	1.09	---	---	---	---
	Body-worn	Back	L	22.89	23.50	1.15	---	---	---	---
			M	22.84	23.50	1.16	0.225	---	0.261	---
			H	23.12	23.50	1.09	---	---	---	---
		Front	L	22.89	23.50	1.15	---	---	---	---
			M	22.84	23.50	1.16	0.125	---	0.145	---
			H	23.12	23.50	1.09	---	---	---	---
	Hotspot	Back	L	22.89	23.50	1.15	---	---	---	---
			M	22.84	23.50	1.16	0.225	---	0.261	---
			H	23.12	23.50	1.09	---	---	---	---
		Front	L	22.89	23.50	1.15	---	---	---	---
			M	22.84	23.50	1.16	0.125	---	0.145	---
			H	23.12	23.50	1.09	---	---	---	---
		Top	L	22.89	23.50	1.15	---	---	---	---
			M	22.84	23.50	1.16	0.118	---	0.137	---
			H	23.12	23.50	1.09	---	---	---	---

		Bottom	L	22.89	23.50	1.15	---	---	---	---
			M	22.84	23.50	1.16	---	---	---	---
			H	23.12	23.50	1.09	---	---	---	---
		Left	L	22.89	23.50	1.15	---	---	---	---
			M	22.84	23.50	1.16	0.183	---	0.212	---
			H	23.12	23.50	1.09	---	---	---	---
		Right	L	22.89	23.50	1.15	---	---	---	---
			M	22.84	23.50	1.16	0.012	---	0.014	---
			H	23.12	23.50	1.09	---	---	---	---

Mode: BT

fL (MHz)=2402 MHz

fM (MHz)=2441MHz

fH (MHz)= 2480MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Mode	Test case			Meas power(dBm)	Tune-up (dBm)	Scaling factor	Duty factor	Meas SAR(w/kg)		Report SAR(w/kg)	
	Exposure condition	Position	Channel					First	Second	First	Second
BR	Head	Left touch	L	9.01	10.00	1.26	1.29	---	---	---	---
			M	9.72	10.00	1.07	1.29	0.053	---	0.073	---
			H	9.33	10.00	1.17	1.29	---	---	---	---
		Left tilt	L	9.01	10.00	1.26	1.29	---	---	---	---
			M	9.72	10.00	1.07	1.29	0.021	---	0.029	---
			H	9.33	10.00	1.17	1.29	---	---	---	---
		Right touch	L	9.01	10.00	1.26	1.29	---	---	---	---
			M	9.72	10.00	1.07	1.29	0.026	---	0.036	---
			H	9.33	10.00	1.17	1.29	---	---	---	---
		Right tilt	L	9.01	10.00	1.26	1.29	---	---	---	---
			M	9.72	10.00	1.07	1.29	0.017	---	0.023	---
			H	9.33	10.00	1.17	1.29	---	---	---	---
	Body-worn	Back	L	9.01	10.00	1.26	1.29	---	---	---	---
			M	9.72	10.00	1.07	1.29	0.027	---	0.037	---
			H	9.33	10.00	1.17	1.29	---	---	---	---
		Front	L	9.01	10.00	1.26	1.29	---	---	---	---
			M	9.72	10.00	1.07	1.29	0.016	---	0.022	---
			H	9.33	10.00	1.17	1.29	---	---	---	---
	Hotspot	Back	L	9.01	10.00	1.26	1.29	---	---	---	---
			M	9.72	10.00	1.07	1.29	0.027	---	0.037	---
			H	9.33	10.00	1.17	1.29	---	---	---	---
		Front	L	9.01	10.00	1.26	1.29	---	---	---	---
			M	9.72	10.00	1.07	1.29	0.016	---	0.022	---
			H	9.33	10.00	1.17	1.29	---	---	---	---
		Top	L	9.01	10.00	1.26	1.29	---	---	---	---
			M	9.72	10.00	1.07	1.29	0.010	---	0.014	---
			H	9.33	10.00	1.17	1.29	---	---	---	---
		Bottom	L	9.01	10.00	1.26	1.29	---	---	---	---
			M	9.72	10.00	1.07	1.29	---	---	---	---
			H	9.33	10.00	1.17	1.29	---	---	---	---
		Left	L	9.01	10.00	1.26	1.29	---	---	---	---
			M	9.72	10.00	1.07	1.29	0.003	---	0.004	---
			H	9.33	10.00	1.17	1.29	---	---	---	---
		Right	L	9.01	10.00	1.26	1.29	---	---	---	---
			M	9.72	10.00	1.07	1.29	0.022	---	0.030	---
			H	9.33	10.00	1.17	1.29	---	---	---	---

Note: Product support “Bluetooth tethering” sharing internet connection via Bluetooth, that’s a kind of hotspot mode.

Mode: Wi-Fi 2.4GHz

fL (MHz)=2412MHz fM (MHz)=2437MHz fH (MHz)= 2462MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Duty factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel					First	Second	First	Second
802.11b	Head	Left touch	L	---	---	---	---	---	---	---	---
			M	15.47	15.50	1.01	1.01	0.348	---	0.356	---
			H	---	---	---	---	---	---	---	---
		Left tilt	L	---	---	---	---	---	---	---	---
			M	15.47	15.50	1.01	1.01	0.149	---	0.153	---
			H	---	---	---	---	---	---	---	---
		Right touch	L	---	---	---	---	---	---	---	---
			M	15.47	15.50	1.01	1.01	0.184	---	0.188	---
			H	---	---	---	---	---	---	---	---
		Right tilt	L	---	---	---	---	---	---	---	---
			M	15.47	15.50	1.01	1.01	0.122	---	0.125	---
			H	---	---	---	---	---	---	---	---
	Body-worn	Back	L	---	---	---	---	---	---	---	---
			M	15.47	15.50	1.01	1.01	0.243	---	0.249	---
			H	---	---	---	---	---	---	---	---
		Front	L	---	---	---	---	---	---	---	---
			M	15.47	15.50	1.01	1.01	0.146	---	0.149	---
			H	---	---	---	---	---	---	---	---
	Hotspot	Back	L	---	---	---	---	---	---	---	---
			M	15.47	15.50	1.01	1.01	0.243	---	0.249	---
			H	---	---	---	---	---	---	---	---
		Front	L	---	---	---	---	---	---	---	---
			M	15.47	15.50	1.01	1.01	0.146	---	0.149	---
			H	---	---	---	---	---	---	---	---
		Top	L	---	---	---	---	---	---	---	---
			M	15.47	15.50	1.01	1.01	0.093	---	0.095	---
			H	---	---	---	---	---	---	---	---
		Bottom	L	---	---	---	---	---	---	---	---
			M	15.47	15.50	1.01	1.01	---	---	---	---
			H	---	---	---	---	---	---	---	---
		Left	L	---	---	---	---	---	---	---	---
			M	15.47	15.50	1.01	1.01	0.028	---	0.029	---
			H	---	---	---	---	---	---	---	---
		Right	L	---	---	---	---	---	---	---	---
			M	15.47	15.50	1.01	1.01	0.194	---	0.199	---
			H	---	---	---	---	---	---	---	---

Mode: Wi-Fi5GHz UNII-1

fL (MHz)=5180MHz fM (MHz)=5200MHz

fH (MHz)= 5240MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Duty factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel					First	Second	First	Second
802.11a	Head	Left touch	L	11.51	12.00	1.12	1.10	0.344	---	0.424	---
			M	10.28	12.00	1.49	1.10	---	---	---	---
			H	10.25	12.00	1.50	1.10	---	---	---	---
		Left tilt	L	11.51	12.00	1.12	1.10	0.364	---	0.449	---
			M	10.28	12.00	1.49	1.10	---	---	---	---
			H	10.25	12.00	1.50	1.10	---	---	---	---
		Right touch	L	11.51	12.00	1.12	1.10	0.201	---	0.248	---
			M	10.28	12.00	1.49	1.10	---	---	---	---
			H	10.25	12.00	1.50	1.10	---	---	---	---
		Right tilt	L	11.51	12.00	1.12	1.10	0.219	---	0.270	---
			M	10.28	12.00	1.49	1.10	---	---	---	---
			H	10.25	12.00	1.50	1.10	---	---	---	---
	Body-worn	Back	L	11.51	12.00	1.12	1.10	0.120	---	0.148	---
			M	10.28	12.00	1.49	1.10	---	---	---	---
			H	10.25	12.00	1.50	1.10	---	---	---	---
		Front	L	11.51	12.00	1.12	1.10	0.116	---	0.143	---
			M	10.28	12.00	1.49	1.10	---	---	---	---
			H	10.25	12.00	1.50	1.10	---	---	---	---
	Hotspot	Back	L	11.51	12.00	1.12	1.10	0.120	---	0.148	---
			M	10.28	12.00	1.49	1.10	---	---	---	---
			H	10.25	12.00	1.50	1.10	---	---	---	---
		Front	L	11.51	12.00	1.12	1.10	0.116	---	0.143	---
			M	10.28	12.00	1.49	1.10	---	---	---	---
			H	10.25	12.00	1.50	1.10	---	---	---	---
		Top	L	11.51	12.00	1.12	1.10	0.119	---	0.147	---
			M	10.28	12.00	1.49	1.10	---	---	---	---
			H	10.25	12.00	1.50	1.10	---	---	---	---
		Bottom	L	11.51	12.00	1.12	1.10	---	---	---	---
			M	10.28	12.00	1.49	1.10	---	---	---	---
			H	10.25	12.00	1.50	1.10	---	---	---	---
		Left	L	11.51	12.00	1.12	1.10	0.004	---	0.005	---
			M	10.28	12.00	1.49	1.10	---	---	---	---
			H	10.25	12.00	1.50	1.10	---	---	---	---
		Right	L	11.51	12.00	1.12	1.10	0.112	---	0.138	---
			M	10.28	12.00	1.49	1.10	---	---	---	---
			H	10.25	12.00	1.50	1.10	---	---	---	---

Mode: Wi-Fi5GHz UNII-3

fL (MHz)=5745MHz fM (MHz)=5785MHz fH (MHz)= 5825MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Duty factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel					First	Second	First	Second
802.11a	Head	Left touch	L	11.77	12.00	1.05	1.10	0.140	---	0.162	---
			M	10.44	12.00	1.43	1.10	---	---	---	---
			H	11.11	12.00	1.23	1.10	---	---	---	---
		Left tilt	L	11.77	12.00	1.05	1.10	0.143	---	0.165	---
			M	10.44	12.00	1.43	1.10	---	---	---	---
			H	11.11	12.00	1.23	1.10	---	---	---	---
		Right touch	L	11.77	12.00	1.05	1.10	0.079	---	0.091	---
			M	10.44	12.00	1.43	1.10	---	---	---	---
			H	11.11	12.00	1.23	1.10	---	---	---	---
		Right tilt	L	11.77	12.00	1.05	1.10	0.086	---	0.099	---
			M	10.44	12.00	1.43	1.10	---	---	---	---
			H	11.11	12.00	1.23	1.10	---	---	---	---
	Body-worn	Back	L	11.77	12.00	1.05	1.10	0.030	---	0.035	---
			M	10.44	12.00	1.43	1.10	---	---	---	---
			H	11.11	12.00	1.23	1.10	---	---	---	---
		Front	L	11.77	12.00	1.05	1.10	0.029	---	0.034	---
			M	10.44	12.00	1.43	1.10	---	---	---	---
			H	11.11	12.00	1.23	1.10	---	---	---	---
	Hotspot	Back	L	11.77	12.00	1.05	1.10	0.030	---	0.035	---
			M	10.44	12.00	1.43	1.10	---	---	---	---
			H	11.11	12.00	1.23	1.10	---	---	---	---
		Front	L	11.77	12.00	1.05	1.10	0.029	---	0.034	---
			M	10.44	12.00	1.43	1.10	---	---	---	---
			H	11.11	12.00	1.23	1.10	---	---	---	---
		Top	L	11.77	12.00	1.05	1.10	0.034	---	0.039	---
			M	10.44	12.00	1.43	1.10	---	---	---	---
			H	11.11	12.00	1.23	1.10	---	---	---	---
		Bottom	L	11.77	12.00	1.05	1.10	---	---	---	---
			M	10.44	12.00	1.43	1.10	---	---	---	---
			H	11.11	12.00	1.23	1.10	---	---	---	---
		Left	L	11.77	12.00	1.05	1.10	0.018	---	0.021	---
			M	10.44	12.00	1.43	1.10	---	---	---	---
			H	11.11	12.00	1.23	1.10	---	---	---	---
		Right	L	11.77	12.00	1.05	1.10	0.029	---	0.034	---
			M	10.44	12.00	1.43	1.10	---	---	---	---
			H	11.11	12.00	1.23	1.10	---	---	---	---

6.11 SAR Measurement Variability

SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium.

The following procedures are applied to determine if repeated measurements are required.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

6.12 Simultaneous Transmission SAR Analysis

Antenna numbers of Simultaneous Transmission	Antennas of Simultaneous Transmission	Simultaneous Transmission Modes
Two	WWAN ANT+ WLAN/BT	Celluar2/3/4G +WIFI 2.4GHz Celluar2/3/4G +WIFI 5GHz Celluar2/3/4G + BT
Three	WWAN ANT+ BT + WLAN5G	Celluar2/3/4G+BT+WIFI 5GHz

RPOSITION			Cellular+ MAX (BT, WLAN2.4GHz)	Cellular+ WLAN5GHz	Cellular +BT+ WLAN5GHz	MAX simultaneous
Head	LEFT	CHEEK	0.861	0.929	1.002	1.080
		TILT	0.635	0.931	0.960	
	RIGHT	CHEEK	0.984	1.044	1.080	
		TILT	0.539	0.684	0.708	
Body worn	Back		1.153	1.052	1.089	1.153
	Front		0.712	0.706	0.728	
Hotspot	Back		1.091	0.990	1.027	1.091
	Front		0.712	0.706	0.728	
	top		0.500	0.552	0.565	
	bottom		0.161	0.161	0.161	
	Left		0.462	0.454	0.458	
	Right		0.422	0.361	0.392	

According to the above tables, all the exposure condition of SAR values<1.6W/kg.

7 MEASUREMENT UNCERTAINTY

(0.3 - 3 GHz range)								
Error Description	Uncert. value	Prob. Dist.	Div.	(c_i) 1g	(c_i) 10g	Std. Unc. (1g)	Std. Unc. (10g)	(v_i) v_{eff}
Measurement System								
Probe Calibration	±6.0 %	N	1	1	1	±6.0 %	±6.0 %	∞
Axial Isotropy	±4.7 %	R	√3	0.7	0.7	±1.9 %	±1.9 %	∞
Hemispherical Isotropy	±9.6 %	R	√3	0.7	0.7	±3.9 %	±3.9 %	∞
Boundary Effects	±1.0 %	R	√3	1	1	±0.6 %	±0.6 %	∞
Linearity	±4.7 %	R	√3	1	1	±2.7 %	±2.7 %	∞
System Detection Limits	±1.0 %	R	√3	1	1	±0.6 %	±0.6 %	∞
Modulation Response ^m	±2.4 %	R	√3	1	1	±1.4 %	±1.4 %	∞
Readout Electronics	±0.3 %	N	1	1	1	±0.3 %	±0.3 %	∞
Response Time	±0.8 %	R	√3	1	1	±0.5 %	±0.5 %	∞
Integration Time	±2.6 %	R	√3	1	1	±1.5 %	±1.5 %	∞
RF Ambient Noise	±3.0 %	R	√3	1	1	±1.7 %	±1.7 %	∞
RF Ambient Reflections	±3.0 %	R	√3	1	1	±1.7 %	±1.7 %	∞
Probe Positioner	±0.4 %	R	√3	1	1	±0.2 %	±0.2 %	∞
Probe Positioning	±2.9 %	R	√3	1	1	±1.7 %	±1.7 %	∞
Max. SAR Eval.	±2.0 %	R	√3	1	1	±1.2 %	±1.2 %	∞
Test Sample Related								
Device Positioning	±2.9 %	N	1	1	1	±2.9 %	±2.9 %	145
Device Holder	±3.6 %	N	1	1	1	±3.6 %	±3.6 %	5
Power Drift	±5.0 %	R	√3	1	1	±2.9 %	±2.9 %	∞
Power Scaling ^p	±0 %	R	√3	1	1	±0.0 %	±0.0 %	∞
Phantom and Setup								
Phantom Uncertainty	±6.1 %	R	√3	1	1	±3.5 %	±3.5 %	∞
SAR correction	±1.9 %	R	√3	1	0.84	±1.1 %	±0.9 %	∞
Liquid Conductivity (mea.) ^{DAK}	±2.5 %	R	√3	0.78	0.71	±1.1 %	±1.0 %	∞
Liquid Permittivity (mea.) ^{DAK}	±2.5 %	R	√3	0.26	0.26	±0.3 %	±0.4 %	∞
Temp. unc. - Conductivity ^{BB}	±3.4 %	R	√3	0.78	0.71	±1.5 %	±1.4 %	∞
Temp. unc. - Permittivity ^{BB}	±0.4 %	R	√3	0.23	0.26	±0.1 %	±0.1 %	∞
Combined Std. Uncertainty						±11.2 %	±11.1 %	361
Expanded STD Uncertainty						±22.3 %	±22.2 %	

(3 - 6 GHz range)								
Error Description	Uncert. value	Prob. Dist.	Div.	(c_i) 1g	(c_i) 10g	Std. Unc. (1g)	Std. Unc. (10g)	(v_i) v_{eff}
Measurement System								
Probe Calibration	±6.55 %	N	1	1	1	±6.55 %	±6.55 %	∞
Axial Isotropy	±4.7 %	R	$\sqrt{3}$	0.7	0.7	±1.9 %	±1.9 %	∞
Hemispherical Isotropy	±9.6 %	R	$\sqrt{3}$	0.7	0.7	±3.9 %	±3.9 %	∞
Boundary Effects	±2.0 %	R	$\sqrt{3}$	1	1	±1.2 %	±1.2 %	∞
Linearity	±4.7 %	R	$\sqrt{3}$	1	1	±2.7 %	±2.7 %	∞
System Detection Limits	±1.0 %	R	$\sqrt{3}$	1	1	±0.6 %	±0.6 %	∞
Modulation Response ^m	±2.4 %	R	$\sqrt{3}$	1	1	±1.4 %	±1.4 %	∞
Readout Electronics	±0.3 %	N	1	1	1	±0.3 %	±0.3 %	∞
Response Time	±0.8 %	R	$\sqrt{3}$	1	1	±0.5 %	±0.5 %	∞
Integration Time	±2.6 %	R	$\sqrt{3}$	1	1	±1.5 %	±1.5 %	∞
RF Ambient Noise	±3.0 %	R	$\sqrt{3}$	1	1	±1.7 %	±1.7 %	∞
RF Ambient Reflections	±3.0 %	R	$\sqrt{3}$	1	1	±1.7 %	±1.7 %	∞
Probe Positioner	±0.8 %	R	$\sqrt{3}$	1	1	±0.5 %	±0.5 %	∞
Probe Positioning	±6.7 %	R	$\sqrt{3}$	1	1	±3.9 %	±3.9 %	∞
Max. SAR Eval.	±4.0 %	R	$\sqrt{3}$	1	1	±2.3 %	±2.3 %	∞
Test Sample Related								
Device Positioning	±2.9 %	N	1	1	1	±2.9 %	±2.9 %	145
Device Holder	±3.6 %	N	1	1	1	±3.6 %	±3.6 %	5
Power Drift	±5.0 %	R	$\sqrt{3}$	1	1	±2.9 %	±2.9 %	∞
Power Scaling ^p	±0 %	R	$\sqrt{3}$	1	1	±0.0 %	±0.0 %	∞
Phantom and Setup								
Phantom Uncertainty	±6.6 %	R	$\sqrt{3}$	1	1	±3.8 %	±3.8 %	∞
SAR correction	±1.9 %	R	$\sqrt{3}$	1	0.84	±1.1 %	±0.9 %	∞
Liquid Conductivity (mea.) ^{DAK}	±2.5 %	R	$\sqrt{3}$	0.78	0.71	±1.1 %	±1.0 %	∞
Liquid Permittivity (mea.) ^{DAK}	±2.5 %	R	$\sqrt{3}$	0.26	0.26	±0.3 %	±0.4 %	∞
Temp. unc. - Conductivity ^{BB}	±3.4 %	R	$\sqrt{3}$	0.78	0.71	±1.5 %	±1.4 %	∞
Temp. unc. - Permittivity ^{BB}	±0.4 %	R	$\sqrt{3}$	0.23	0.26	±0.1 %	±0.1 %	∞
Combined Std. Uncertainty						±12.3 %	±12.2 %	748
Expanded STD Uncertainty						±24.6 %	±24.5 %	

8 TEST EQUIPMENTS

The measurements were performed using an automated near-field scanning system, DASY5, manufactured by Schmid & Partner Engineering AG (SPEAG) in Switzerland. The SAR extrapolation algorithm used in all measurements was the 'advanced extrapolation' algorithm.

The following table lists calibration dates of SPEAG components:

Test Equipment	Model	Serial Number	Calibration date	Calibration Due data
DAE	DAE4	720	2020.09.30	2021.09.29
Dosimetric E-field Probe	ES3DV3	3127	2020.09.01	2021.08.31
DAE	DAE4	755	2020.05.06	2021.05.05
Dosimetric E-field Probe	EX3DV4	3985	2020.05.20	2020.05.19
Dipole Validation Kit	D750V3	1101	2020.10.16	2023.10.15
Dipole Validation Kit	D835V2	4d023	2020.10.16	2023.10.15
Dipole Validation Kit	D1800V2	2d084	2020.09.18	2023.09.17
Dipole Validation Kit	D2000V2	1009	2020.10.14	2023.10.13
Dipole Validation Kit	D2450V2	738	2020.10.13	2023.10.12
Dipole Validation Kit	D2600V2	1166	2019.11.08	2022.11.07
Dipole Validation Kit	D5GHzV2	1079	2020.10.10	2023.10.09

Additional test equipment used in testing:

Test Equipment	Model	Serial Number	Calibration date	Calibration Due data
Signal Generator	E4428C	MY45280865	2020.08.20	2021.08.19
Signal Generator	SML 03	103514	2020.08.20	2021.08.19
Power meter	E4417A	MY45101182	2020.08.20	2021.08.19
Power Sensor	E4412A	MY41502214	2020.08.20	2021.08.19
Power Sensor	E4412A	MY41502130	2020.08.20	2021.08.19
Power meter	E4417A	MY45101004	2020.08.20	2021.08.19
Power Sensor	E9300B	MY41496001	2020.08.20	2021.08.19
Power Sensor	E9300B	MY41496003	2020.08.20	2021.08.19
Communication Tester	E5515C	MY48367401	2020.08.20	2021.08.19
Communication Tester	CMW500	161702	2020.08.20	2021.08.19
Communication Tester	MT8820C	6201300660	2020.08.20	2021.08.19
Communication Tester	MT8821C	6201547819	2020.08.20	2021.08.19
Vector Network Analyzer	VNA R140	0011213	2020.09.18	2021.09.17
Dielectric Parameter Probe	DAKS-3.5	1042	2020.09.18	2021.09.17

Detailed information of Isotropic E-field Probe Type ES3DV3

Construction	Symmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	Calibration certificate in Appendix C
Frequency	10 MHz to 4 GHz; Linearity: ± 0.2 dB (30 MHz to 4 GHz)
Optical Surface Detection	± 0.2 mm repeatability in air and clear liquids over diffuse reflecting surfaces
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 3.9 mm (Body: 12 mm) Distance from probe tip to dipole centers: 2.0 mm
Dynamic Range	5 μ W/g to > 100 W/kg; Linearity: ± 0.2 dB
Application	General dosimetry up to 4 GHz Dosimetry in strong gradient fields Compliance tests of mobile phones

Detailed information of Isotropic E-field Probe Type EX3DV4

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	Calibration certificate in Appendix C
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Optical Surface Detection	± 0.3 mm repeatability in air and clear liquids over diffuse reflecting surfaces
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Dynamic Range	10 μ W/g to > 100 W/kg Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.

According to KDB 865664 D01 section 3.2.2, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the **SAR target, impedance and return loss** of a dipole have remain stable according to the following requirements.

- 1) The test laboratory must ensure that the required supporting information and documentation are included in the SAR report to qualify for the three-year extended calibration interval; otherwise, the IEEE Std 1528-2013 recommended annual calibration applies.
- 2) Immediate re-calibration is required for the following conditions.
 - a) After a dipole is damaged and properly repaired to meet required specifications.
 - b) When the measured SAR deviates from the calibrated SAR value by more than 10% due to changes in physical, mechanical, electrical or other relevant dipole conditions; i.e., the error is not introduced by incorrect measurement procedures or other issues relating to the SAR measurement system.
 - c) When the most recent return-loss result, measured at least annually, deviates by more than 20% from the previous measurement (i.e. value in dB $\times 0.2$) or not meeting the required 20 dB minimum return-loss requirement.
 - d) When the most recent measurement of the real or imaginary parts of the impedance, measured at least annually, deviates by more than 5 Ω from the previous measurement.

Dipole 750

SAR target

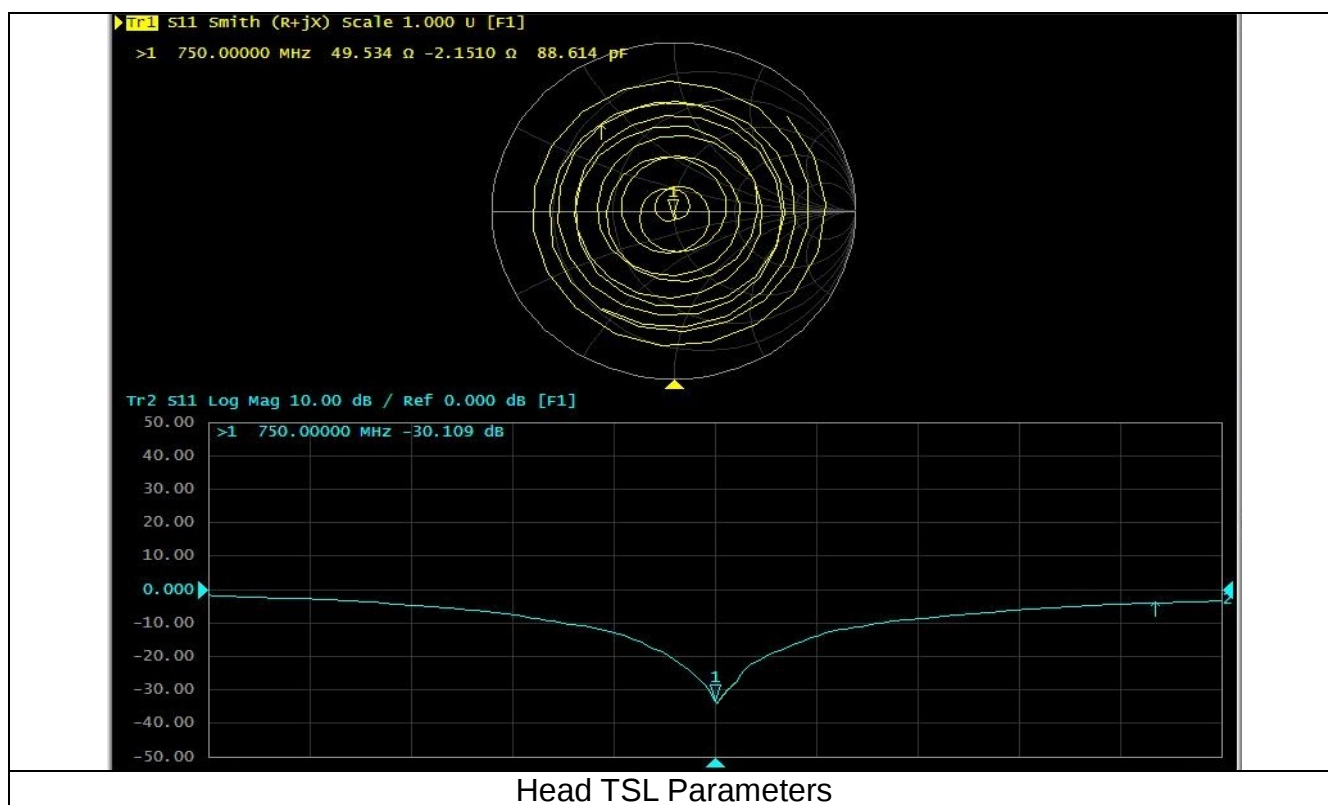
Refers to system check, measured SAR (1g and 10g) deviates from the Target SAR value of calibration report within 10%.

Impedance and Return loss measured by Network analyzer

The most recent measurement of the real or imaginary parts of the impedance, deviates within 5 Ω from the previous measurement. (Data from the last calibration report)

The most recent return-loss result deviates within 20% from the previous measurement. (Data from the last calibration report)

Head TSL Parameters			
Parameters	Target (Ref. Value)	Measured data	Deviation
Impedance	53.7 Ω -1.63j Ω	49.5 Ω -2.15j Ω	<5 Ω
Return loss	-28.2dB	-30.1dB	<20%



Dipole 835

SAR target

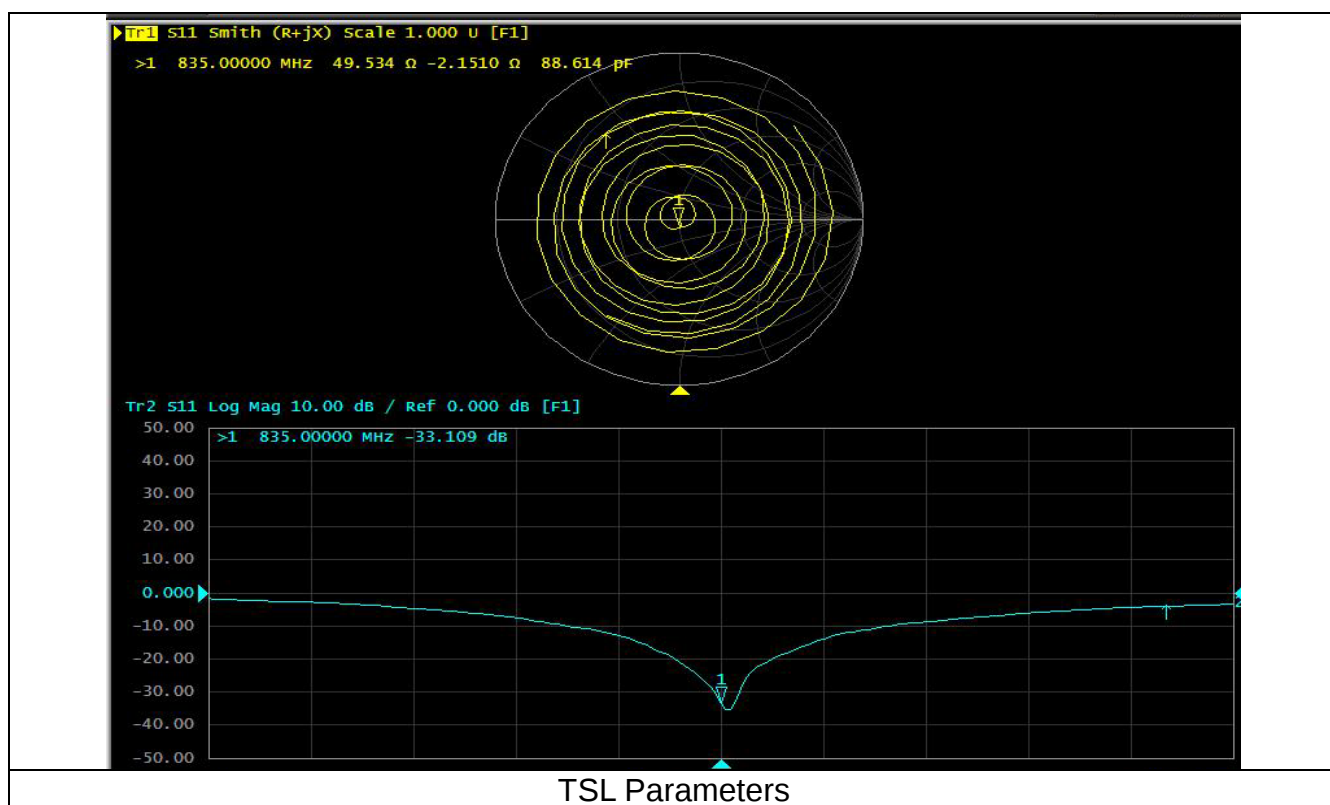
Refers to system check, measured SAR (1g and 10g) deviates from the Target SAR value of calibration report within 10%.

Impedance and Return loss measured by Network analyzer

The most recent measurement of the real or imaginary parts of the impedance, deviates within 5 Ω from the previous measurement. (Data from the last calibration report)

The most recent return-loss result deviates within 20% from the previous measurement. (Data from the last calibration report)

TSL Parameters			
Parameters	Target (Ref. Value)	Measured data	Deviation
Impedance	52.6 Ω -2.37j Ω	49.5 Ω -2.15j Ω	<5 Ω
Return loss	-29.3 dB	-33.1 dB	<20%



Dipole1800

SAR target

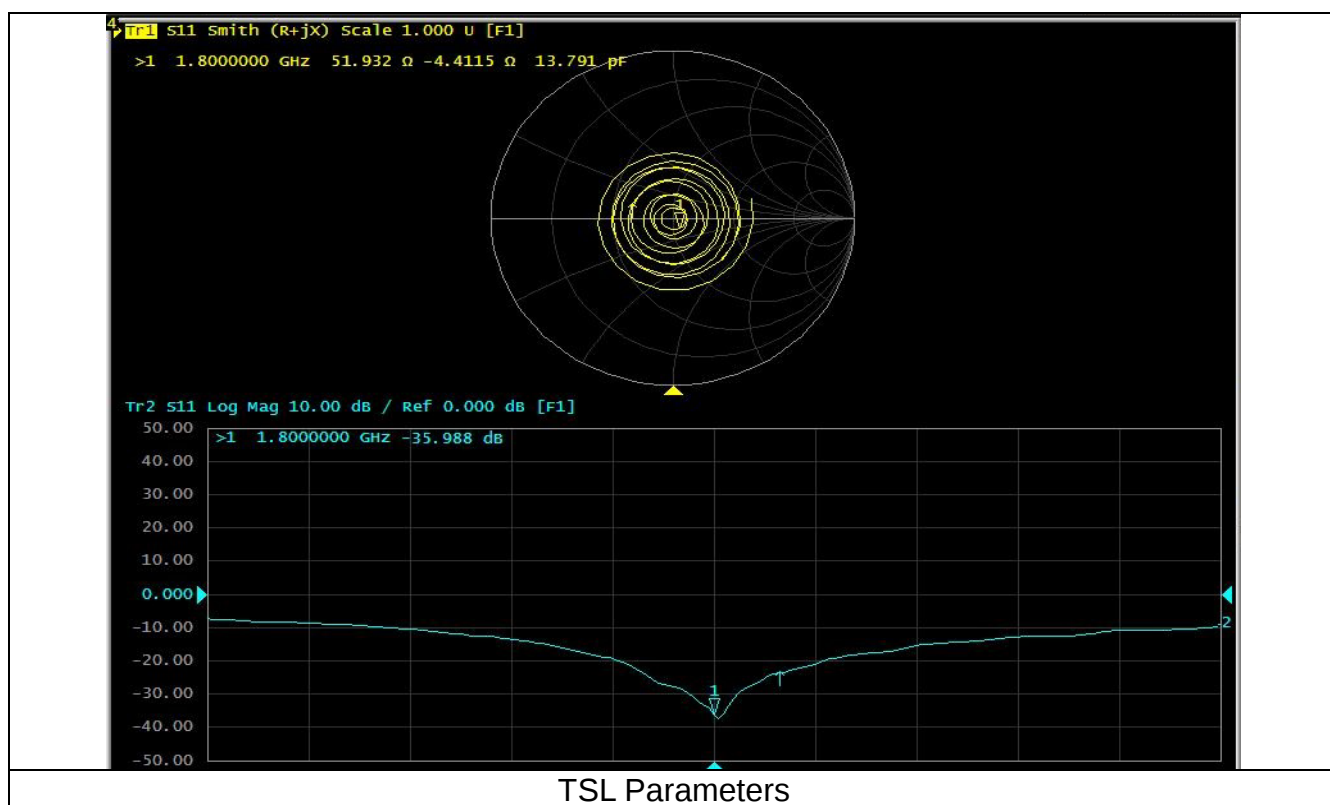
Refers to system check, measured SAR (1g and 10g) deviates from the Target SAR value of calibration report within 10%.

Impedance and Return loss measured by Network analyzer

The most recent measurement of the real or imaginary parts of the impedance, deviates within 5 Ω from the previous measurement. (Data from the last calibration report)

The most recent return-loss result deviates within 20% from the previous measurement. (Data from the last calibration report)

TSL Parameters			
Parameters	Target (Ref. Value)	Measured data	Deviation
Impedance	48.9 Ω -2.71j Ω	51.9 Ω -4.41j Ω	<5 Ω
Return loss	-30.6 dB	-36.0dB	<20%



Dipole2000

SAR target

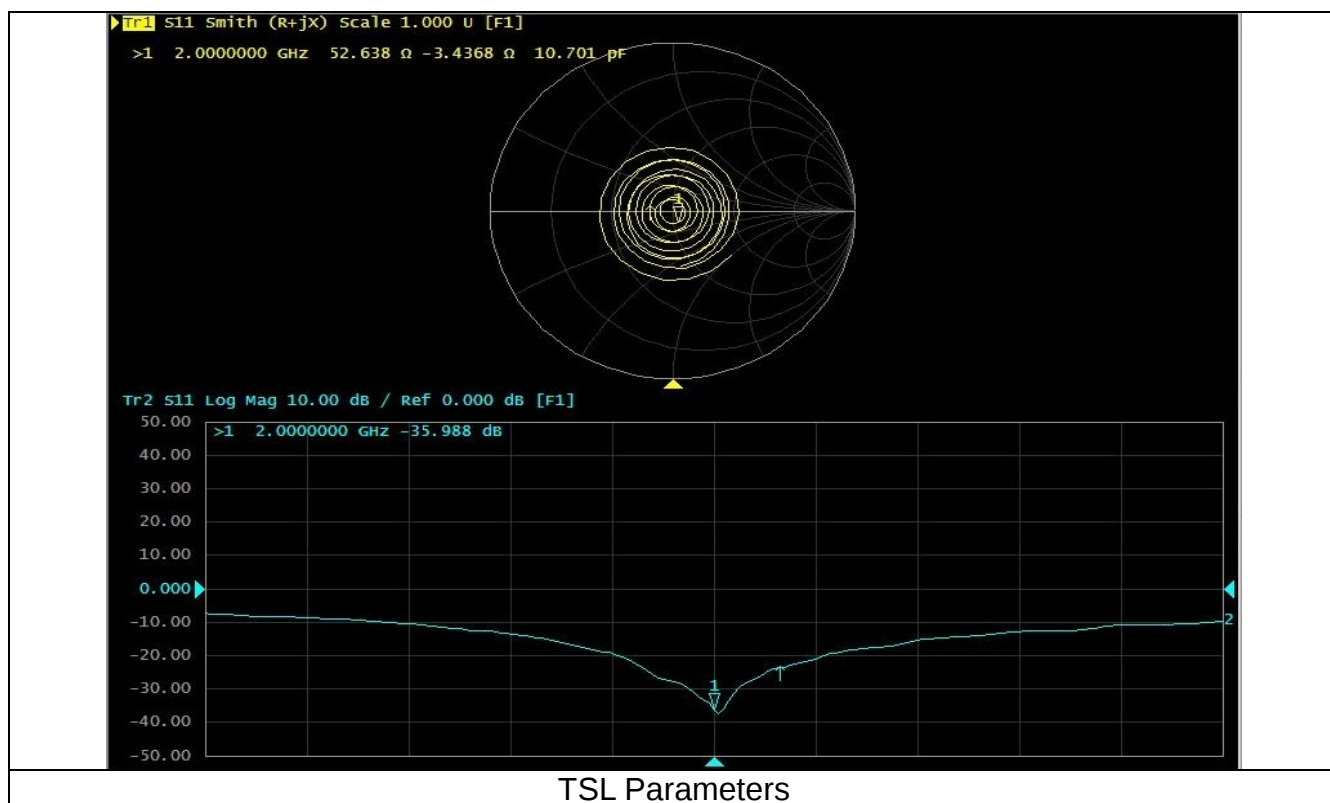
Refers to system check, measured SAR (1g and 10g) deviates from the Target SAR value of calibration report within 10%.

Impedance and Return loss measured by Network analyzer

The most recent measurement of the real or imaginary parts of the impedance, deviates within 5 Ω from the previous measurement. (Data from the last calibration report)

The most recent return-loss result deviates within 20% from the previous measurement. (Data from the last calibration report)

TSL Parameters			
Parameters	Target (Ref. Value)	Measured data	Deviation
Impedance	49.4 Ω -2.46j Ω	52.6 Ω -3.44j Ω	<5 Ω
Return loss	-31.9dB	-36.0dB	<20%



Dipole2450

SAR target

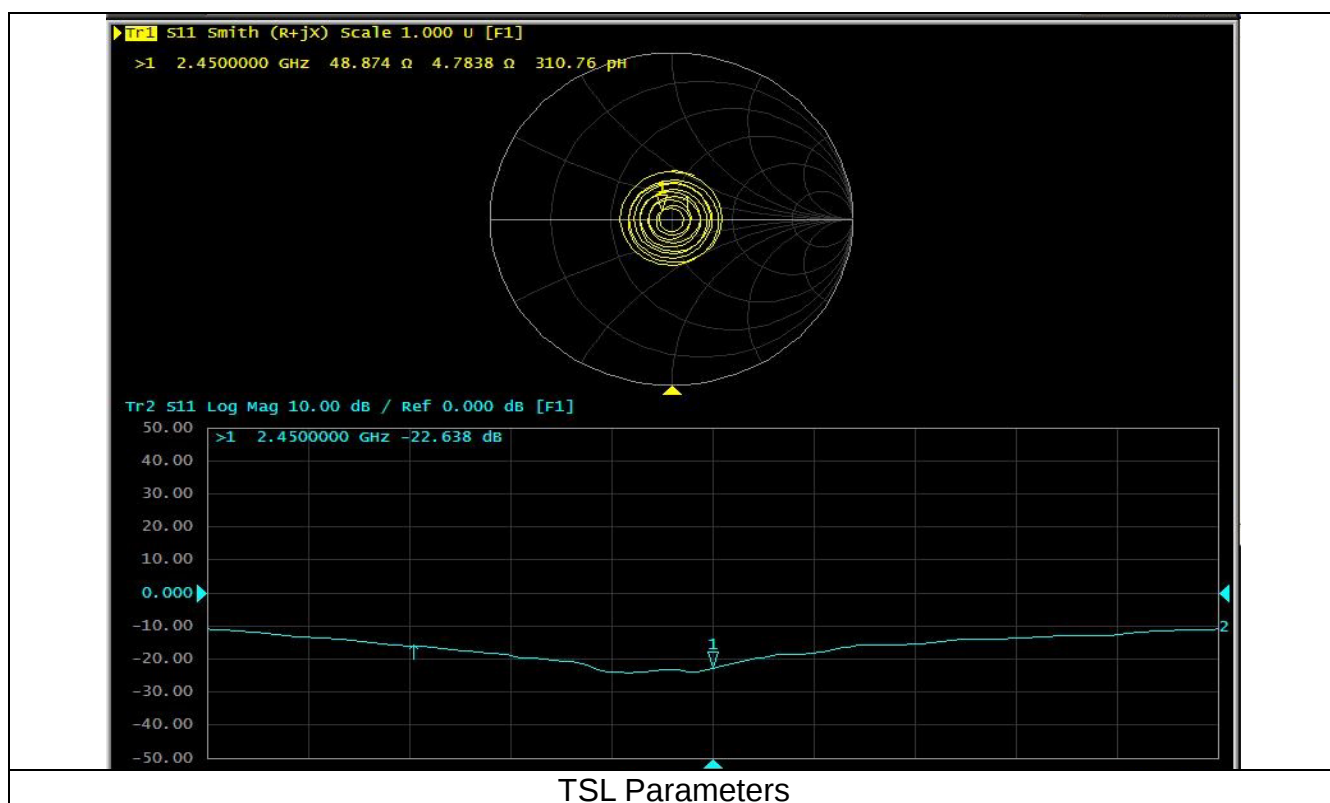
Refers to system check, measured SAR (1g and 10g) deviates from the Target SAR value of calibration report within 10%.

Impedance and Return loss measured by Network analyzer

The most recent measurement of the real or imaginary parts of the impedance deviates within 5 Ω from the previous measurement. (Data from the last calibration report)

The most recent return-loss result deviates within 20% from the previous measurement. (Data from the last calibration report)

TSL Parameters			
Parameters	Target (Ref. Value)	Measured data	Deviation
Impedance	53.3 Ω +6.38j Ω	48.9 Ω +4.78j Ω	<5 Ω
Return loss	-23.1 dB	-22.6dB	<20%



TSL Parameters

Dipole2600

SAR target

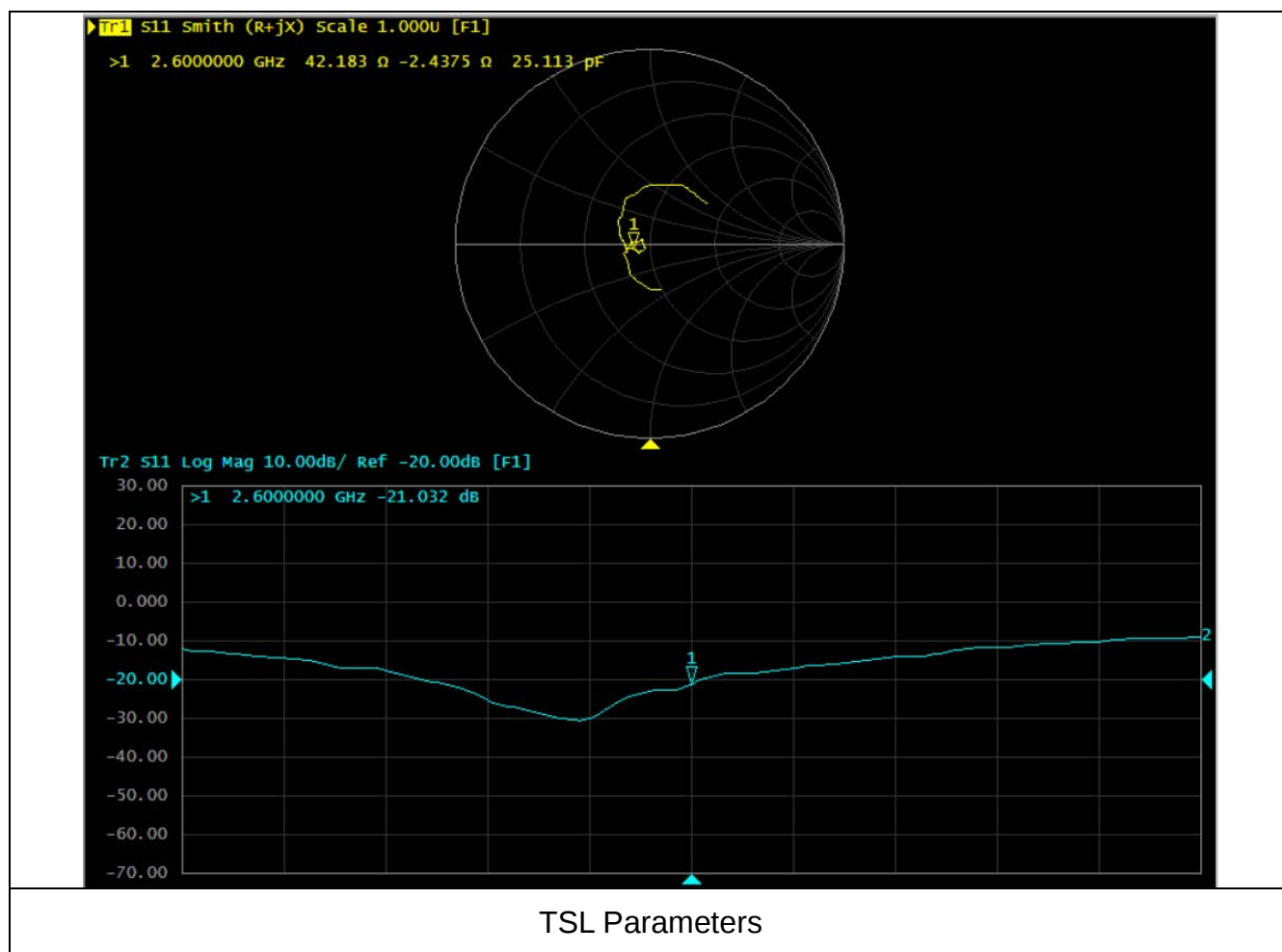
Refers to system check, measured SAR (1g and 10g) deviates from the Target SAR value of calibration report within 10%.

Impedance and Return loss measured by Network analyzer

The most recent measurement of the real or imaginary parts of the impedance, deviates within $5\ \Omega$ from the previous measurement. (Data from the last calibration report)

The most recent return-loss result deviates within 20% from the previous measurement. (Data from the last calibration report)

Head TSL Parameters				
Parameters	Target (Ref. Value)	Measured data	Deviation	Frequency (MHz)
Impedance	$47.9\Omega-7.8j\Omega$	$42.2\Omega-2.44j\Omega$	$<5\Omega$	2600
Return loss	-21.7dB	-21.0dB	$<20\%$	2600



Dipole5GHz

SAR target

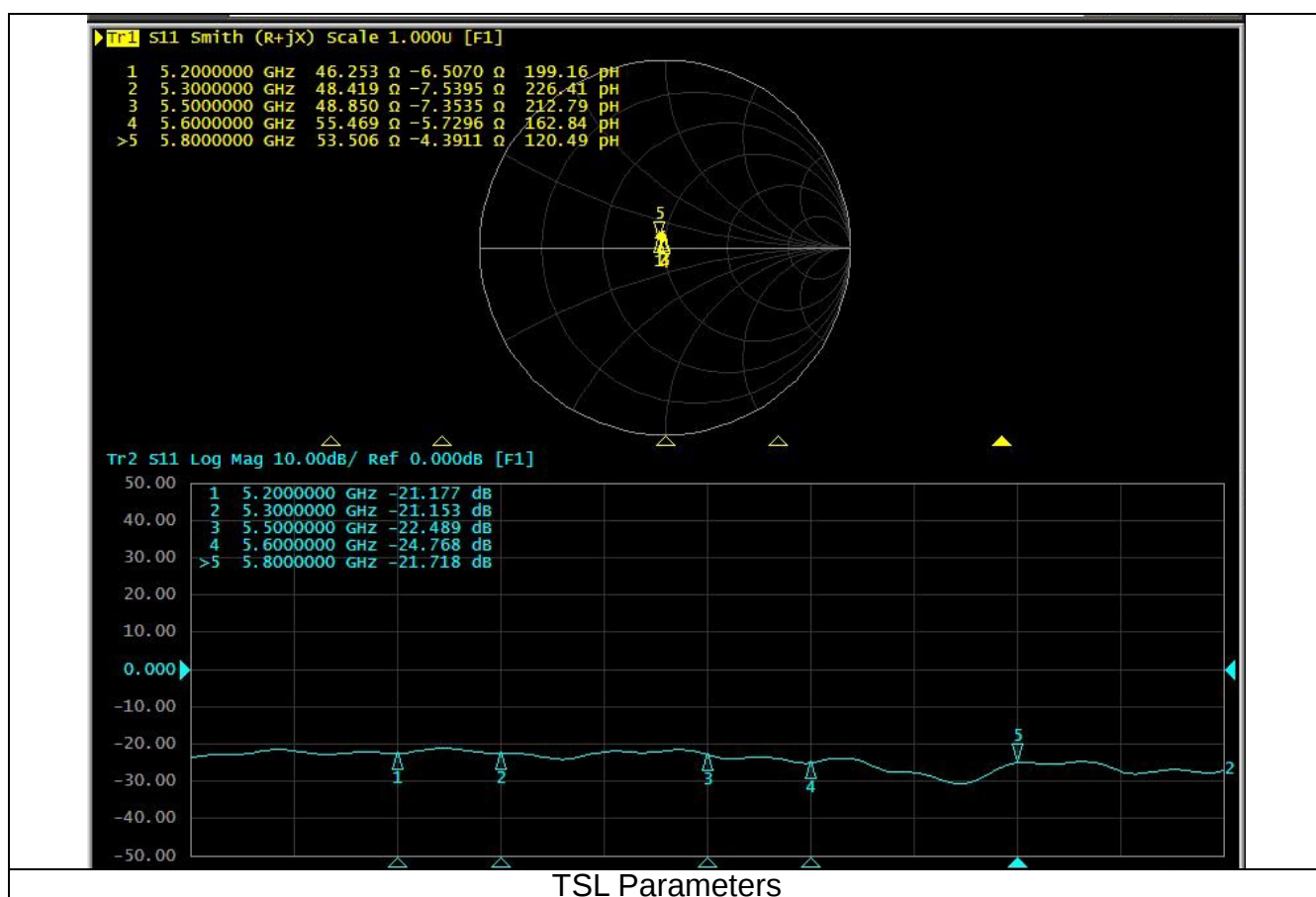
Refers to system check, measured SAR (1g and 10g) deviates from the Target SAR value of calibration report within 10%.

Impedance and Return loss measured by Network analyzer

The most recent measurement of the real or imaginary parts of the impedance, deviates within 5 Ω from the previous measurement. (Data from the last calibration report)

The most recent return-loss result deviates within 20% from the previous measurement. (Data from the last calibration report)

Head TSL Parameters				
Parameters	Target (Ref. Value)	Measured data	Deviation	Frequency (MHz)
Impedance	50.2 Ω -10.0j Ω	46.3 Ω -6.51j Ω	<5 Ω	5200
Return loss	-20.0dB	-21.2dB	<20%	5200
Impedance	47.2 Ω -7.33j Ω	48.4 Ω -7.54j Ω	<5 Ω	5300
Return loss	-21.9dB	-21.2dB	<20%	5300
Impedance	52.0 Ω -7.96j Ω	48.9 Ω -7.35j Ω	<5 Ω	5500
Return loss	-21.9dB	-22.5dB	<20%	5500
Impedance	55.7 Ω -3.78j Ω	55.5 Ω -5.73j Ω	<5 Ω	5600
Return loss	-23.8dB	-24.8dB	<20%	5600
Impedance	53.7 Ω -5.87j Ω	53.5 Ω -4.39j Ω	<5 Ω	5800
Return loss	-23.5dB	-21.7dB	<20%	5800



ANNEX A – TEST PLOTS

Please refer to the attachment.