



SAR TEST REPORT

For

GL Technologies (Hong Kong) Limited

Portable 4G LTE Router

Test Model: GL-E750V2C4

Prepared for : GL Technologies (Hong Kong) Limited
Address : Unit 601, Building 5W, Hong Kong Science Park, Shatin, N.T.,
Hong Kong

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park
Yabianxueziwei, Shajing Street, Baoan District, Shenzhen,
518000, China
Tel : (86)755-82591330
Fax : (86)755-82591332
Web : www.LCS-cert.com
Mail : webmaster@LCS-cert.com

Date of receipt of test sample : July 25, 2023
Number of tested samples : 1
Sample number : A071923006-1
Serial number : Prototype
Date of Test : July 25, 2023~ August 13, 2023
Date of Report : August 15, 2023



**SAR TEST REPORT****Report Reference No.**.....: **LCSA071923006EB****Date Of Issue**.....: August 15, 2023**Testing Laboratory Name**.....: **Shenzhen LCS Compliance Testing Laboratory Ltd.****Address**.....: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China**Testing Location/ Procedure**.....: Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □**Applicant's Name**.....: **GL Technologies (Hong Kong) Limited****Address**.....: Unit 601, Building 5W, Hong Kong Science Park, Shatin, N.T., Hong Kong**Test Specification:****Standard**.....: IEEE Std C95.1, 2019/IEC-IEEE 62209-1528-2020 /FCC Part 2.1093**Test Report Form No.**.....: LCSEMC-1.0**TRF Originator**.....: Shenzhen LCS Compliance Testing Laboratory Ltd.**Master TRF**.....: Dated 2011-03**Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved.**

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Test Item Description.....: **Portable 4G LTE Router****Trade Mark**.....: GL.iNET**Model/Type Reference**.....: GL-E750V2C4**Operation Frequency**.....: WCDMA II,IV;V;LTE2,4,5,7,12,13,14,25,26,38,41,66,71;
WLAN2.4G,WLAN5.2G,WLAN5.8G.**Ratings**.....: Input: 5.0V~2.0A
For AC Adapter Input: 100-240V~, 50/60Hz, 0.3A
Adapter Output: 5.0V~2.0A, 10.0W
DC 3.7V by Rechargeable Li-ion Battery, 7000mAh**Result**: **Positive****Compiled by:**

Jay Zhan

Jay Zhan/ File administrators

Supervised by:

Cary Luo

Cary Luo/ Technique principal

Approved by:

Gavin Liang

Gavin Liang/ Manager



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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**SAR -- TEST REPORT****Test Report No. :****LCSA071923006EB**August 15, 2023Date of issue

Type / Model..... : GL-E750V2C4

EUT..... : Portable 4G LTE Router

Applicant..... : GL Technologies (Hong Kong) LimitedAddress..... : Unit 601, Building 5W, Hong Kong Science Park, Shatin, N.T.,
Hong Kong

Telephone..... : /

Fax..... : /

Manufacturer..... : Shenzhen Guanglian Zhitong Technology Co., LTDAddress..... : Room 305-306, Skyworth Digital Building, Shiyan Street,
Baoan District, Shenzhen, China

Telephone..... : /

Fax..... : /

Factory..... : Shenzhen Guanglian Zhitong Technology Co., LTDAddress..... : Room 305-306, Skyworth Digital Building, Shiyan Street,
Baoan District, Shenzhen, China

Telephone..... : /

Fax..... : /

Test Result**Positive**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen,
518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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Revision History

Revision	Issue Date	Revision Content	Revised By
000	August 15, 2023	Initial Issue	---





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1. TEST STANDARDS AND TEST DESCRIPTION

1.1. Test Standards

[IEEE Std C95.1-2019](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz. It specifies the maximum exposure limit of 1.6 W/kg as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.

[IEC-IEEE 62209-1528-2020: Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices –Part 1528: Human models, instrumentation, and procedures\(Frequency range of 4 MHz to 10 GHz\)](#)

[FCC Part 2.1093](#): Radiofrequency Radiation Exposure Evaluation Portable Devices

[KDB447498 D01 General RF Exposure Guidance v06](#): Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies

[KDB447498 D02 SAR Procedures for Dongle Xmtr v02r01](#): SAR Measurement Procedures For USB Dongle Transmitters.

[KDB865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04](#): SAR Measurement Requirements for 100 MHz to 6 GHz

[KDB865664 D02 RF Exposure Reporting v01r02](#): RF Exposure Compliance Reporting and Documentation Considerations

[KDB 248227 D01 802.11 Wi-Fi SAR v02r02](#): SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS

[KDB941225 D01 3G SAR Procedures](#): 3G SAR MEAUREMENT PROCEDURES

[KDB 941225 D05 SAR for LTE Devices](#): SAR Evaluation Considerations For LTE Devices

1.2. Test Description

The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power. And Test device is identical prototype.

1.3. General Remarks

Date of receipt of test sample	:	July 25, 2023
Testing commenced on	:	July 25, 2023
Testing concluded on	:	August 13, 2023

1.4. Product Description

The GL Technologies (Hong Kong) Limited's Model: GL-E750V2C4 or the "EUT" as referred to in this report; more general information as follows, for more details, refer to the user's manual of the EUT.

General Description	
EUT :	Portable 4G LTE Router
Model/Type reference:	GL-E750V2C4
Additional Model No.:	/
FCC ID:	2AFIW-E750V2C4
Contains FCC ID :	XMR2021EM05G
Model Declaration:	/
Hardware Version	/
Firmware Version:	/
Power supply:	Input: 5.0V $\pm$ 2.0A For AC Adapter Input: 100-240V~, 50/60Hz, 0.3A Adapter Output: 5.0V $\pm$ 2.0A, 10.0W DC 3.7V by Rechargeable Li-ion Battery, 7000mAh
The EUT is Portable 4G LTE Router. the Portable 4G LTE Router is intended for WLAN transmission. It	





is equipped with WCDMA Band II, Band I V, Band V; LTE 2,4,5,7,12,13,14,25,26,38,41,66,71 and WiFi2.4G, WiFi5.2G, WiFi5.8G; For more information see the following datasheet

Technical Characteristics

LTE	
Operation Band:	☒ E-UTRA Band 2(U.S.-Band) ☒ E-UTRA Band 4(U.S.-Band) ☒ E-UTRA Band 5(U.S.-Band) ☒ E-UTRA Band 7(U.S.-Band) ☒ E-UTRA Band 12(U.S.-Band) ☒ E-UTRA Band 13(U.S.-Band) ☒ E-UTRA Band 14(U.S.-Band) ☒ E-UTRA Band 25(U.S.-Band) ☒ E-UTRA Band 26(U.S.-Band) ☒ E-UTRA Band 38(U.S.-Band) ☒ E-UTRA Band 41(U.S.-Band) ☒ E-UTRA Band 66(U.S.-Band) ☒ E-UTRA Band 71(U.S.-Band)
Modulation Type:	QPSK/16QAM
Release Version:	R12
Power Class:	Class 3
Antenna Type:	PIFA Antenna
Antenna Gain:	LTE Band 2 : 3.07dBi; LTE Band 4 : 3.38dBi; LTE Band 5 : 3.96dBi; LTE Band 7 : 3.15dBi; LTE Band 12 : 3.6dBi; LTE Band 13 : 3.55dBi; LTE Band 14 : 3.55dBi; LTE Band 25 : 3.07dBi; LTE Band 26 : 3.96dBi; LTE Band 38: 3.22dBi; LTE Band 41 : 3.31dBi; LTE Band 66 : 3.7dBi; LTE Band 71 : 3.07dBi;
UMTS	
Operation Band:	☒ WCDMA Band II (U.S.-Band) ☒ WCDMA Band IV (U.S.-Band) ☒ WCDMA Band V (U.S.-Band)
FrequencyRange:	WCDMA Band II: 1852.4~1907.6MHz WCDMA Band IV: 1710~1755MHz WCDMA Band V: 826.4~846.6MHz
Modulation Type:	QPSK,16QAM
WCDMA Release Version:	R99
Antenna Type:	PIFA Antenna
Antenna Gain:	WCDMA Band II: 3.07dBi; WCDMA Band IV: 3.38dBi; WCDMA Band V: 3.96dBi;
WIFI(2.4G Band)	
Frequency Range:	2412MHz~2462MHz
Channel Spacing:	5MHz
Channel Number:	11 Channels for 20MHz bandwidth (2412~2462MHz) 7 Channels for 40MHz bandwidth (2422~2452MHz)
Modulation Type:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description:	Antenna0: Internal Antenna, 1.48dBi(Max.)



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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	Antenna1: Internal Antenna, 1.57dBi(Max.)
5.2G WLAN	
Frequency Range:	5180MHz~5240MHz
Channel Number:	4 Channels for 20MHz bandwidth(5180MHz~5240MHz) 2 channels for 40MHz bandwidth(5190MHz~5230MHz) 1 channels for 80MHz bandwidth(5210MHz)
Modulation Type:	IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description:	Internal Antenna, 0.82dBi(Max.)
5.8G WLAN	
Frequency Range	5745MHz~5825MHz
Channel Number	5 channels for 20MHz bandwidth(5745MHz~5825MHz) 2 channels for 40MHz bandwidth(5755MHz~5795MHz) 1 channels for 80MHz bandwidth(5775MHz)
Modulation Type	IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	Internal Antenna, 0.95dBi(Max.)





1.5. Statement of Compliance

The maximum of results of SAR found during testing for GL-E750V2C4 are follows:

<Highest Reported standalone SAR Summary>

Classment Class	Frequency Band	Body-worn/Hotspot (Report SAR _{1-g} (W/kg) (Separation Distance 0mm)
PCB	WCDMA Band II	0.673
	WCDMA Band IV	0.508
	WCDMA Band V	0.332
	LTE band 2	0.623
	LTE band 4	1.334
	LTE band 5	0.348
	LTE band 7	0.902
	LTE band 12	0.530
	LTE band 13	0.541
	LTE band 14	0.415
	LTE band 25	0.553
	LTE band 26	0.254
	LTE band 38	0.408
	LTE band 41	0.380
	LTE band 66	0.217
	LTE band 71	0.251
DTS	WIFI2.4G Ant0	0.120
	WIFI2.4G Ant1	0.106
NII	WIFI 5.2G Ant1	0.009
	WIFI 5.8G Ant1	0.003

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-2019, and had been tested in accordance with the measurement methods and procedures specified in IEC-IEEE 62209-1528-2020.

<Highest Reported simultaneous SAR Summary>

Exposure Position	Classment Class	Body (Report SAR _{1-g} (W/kg)	Highest Reported Simultaneous Transmission SAR _{1-g} (W/kg)
Body (hotspot open)	PCB	1.334	1.560
	DTS (Ant0)	0.120	
	DTS (Ant1)	0.106	





2. TEST ENVIRONMENT

2.1. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

Site Description

Sar Lab.

: NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

2.2. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	18-25 ° C
Humidity:	40-65 %
Atmospheric pressure:	950-1050mbar

2.3. SAR Limits

FCC Limit (1g Tissue)

EXPOSURE LIMITS	SAR (W/kg)	
	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)
Spatial Average(averaged over the whole body)	0.08	0.4
Spatial Peak(averaged over any 1 g of tissue)	1.6	8.0
Spatial Peak(hands/wrists/ feet/anklesaveraged over 10 g)	4.0	20.0

Population/Uncontrolled Environments are defined as locations where there is the exposure of individual who have no knowledge or control of their exposure.

Occupational/Controlled Environments are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure (i.e. as a result of employment or occupation).



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2.4. Equipments Used during the Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	PC	Lenovo	G5005	MY42081102	N/A	N/A
2	SAR Measurement system	SATIMO	4014_01	SAR_4014_01	N/A	N/A
3	Signal Generator	Agilent	E4438C	MY49072627	2023-06-09	2024-06-08
4	S-parameter Network Analyzer	Agilent	8753ES	US38432944	2023-06-09	2024-06-08
5	Wideband Radio Communication Tester	R&S	CMW500	103818-1	2022-10-29	2023-10-28
6	E-Field PROBE	MVG	SSE2	SN 25/22 EPG0376	2023-06-22	2024-06-21
7	DIPOLE 750	SATIMO	SID 750	SN 07/14 DIP 0G750-302	2021-09-29	2024-09-28
8	DIPOLE 835	SATIMO	SID 835	SN 07/14 DIP 0G835-303	2021-09-29	2024-09-28
9	DIPOLE 1800	SATIMO	SID 1800	SN 07/14 DIP 1G800-301	2021-09-29	2024-09-28
10	DIPOLE 1900	SATIMO	SID 1900	SN 38/18 DIP 1G900-466	2021-09-22	2024-09-21
11	DIPOLE 2450	SATIMO	SID 2450	SN 07/14 DIP 2G450-306	2021-09-29	2024-09-28
12	DIPOLE 2600	SATIMO	SID 2600	SN 38/18 DIP 2G600-468	2021-09-22	2024-09-21
13	DIPOLE 5000-6000	SATIMO	SWG5500	SN 49/16 WGA 43	2021-09-22	2024-09-21
14	COMOSAR OPENCoaxial Probe	SATIMO	OCPG 68	SN 40/14 OCPG68	2022-10-29	2023-10-28
15	SAR Locator	SATIMO	VPS51	SN 40/14 VPS51	2022-10-29	2023-10-28
16	Communication Antenna	SATIMO	ANTA57	SN 39/14 ANTA57	2022-10-29	2023-10-28
17	FEATURE PHONEPOSITIONING DEVICE	SATIMO	MSH98	SN 40/14 MSH98	N/A	N/A
18	DUMMY PROBE	SATIMO	DP60	SN 03/14 DP60	N/A	N/A
19	SAM PHANTOM	SATIMO	SAM117	SN 40/14 SAM117	N/A	N/A
20	Liquid measurement Kit	HP	85033D	3423A03482	N/A	N/A
21	Power meter	Agilent	E4419B	MY45104493	2022-10-29	2023-10-28
22	Power meter	Agilent	E4419B	MY45100308	2022-10-29	2023-10-28
23	Power sensor	Agilent	E9301H	MY41495616	2022-10-29	2023-10-28
24	Power sensor	Agilent	E9301H	MY41495234	2022-10-29	2023-10-28
25	Directional Coupler	MCLI/USA	4426-20	03746	2023-06-09	2024-06-08

Note:

- Per KDB865664D01 requirements for dipole calibration, the test laboratory has adopted three year extended calibration interval. Each measured dipole is expected to evaluate with following criteria at least on annual interval.
 - There is no physical damage on the dipole;
 - System check with specific dipole is within 10% of calibrated values;
 - The most recent return-loss results,measured at least annually,deviates by no more than 20% from the previous measurement;
 - The most recent measurement of the real or imaginary parts of the impedance, measured at least annually is within 5Ω from the previous measurement.
- Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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3. SAR MEASUREMENTS SYSTEM CONFIGURATION

3.1. SARMeasurement Set-up

The OPENSAR system for performing compliance tests consist of the following items:

A standard high precision 6-axis robot (KUKA) with controller and software.

KUKA Control Panel (KCP)

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with a Video Positioning System(VPS).

The stress sensor is composed with mechanical and electronic when the electronic part detects a change on the electro-mechanical switch,It sends an "Emergency signal" to the robot controller that to stop robot's moves

A computer operating Windows XP.

OPENSAR software

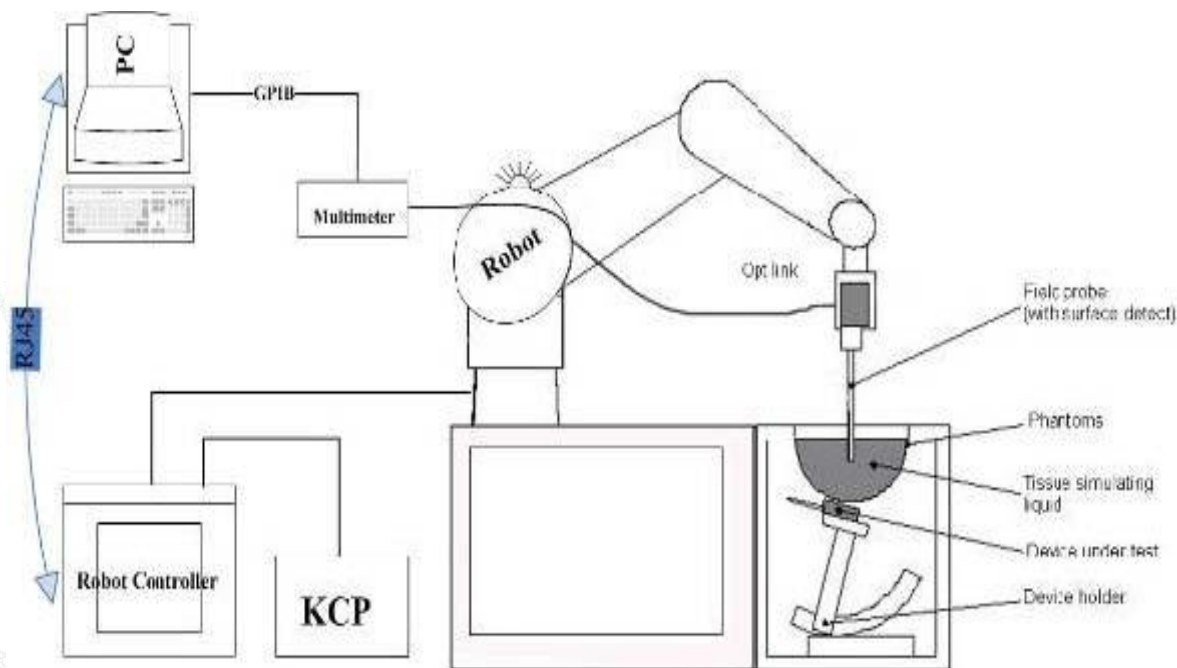
Remote control with teaches pendant and additional circuitry for robot safety such as warning lamps, etc.

The SAM phantom enabling testing left-hand right-hand and body usage.

The Position device for handheld EUT

Tissue simulating liquid mixed according to the given recipes .

System validation dipoles to validate the proper functioning of the system.





3.2. OPENSAR E-field Probe System

The SAR measurements were conducted with the dosimetric probe EPGO376 (manufactured by MVG), designed in the classical triangular configuration and optimized for dosimetric evaluation.

Probe Specification

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 ISO/IEC 17025 calibration service available.

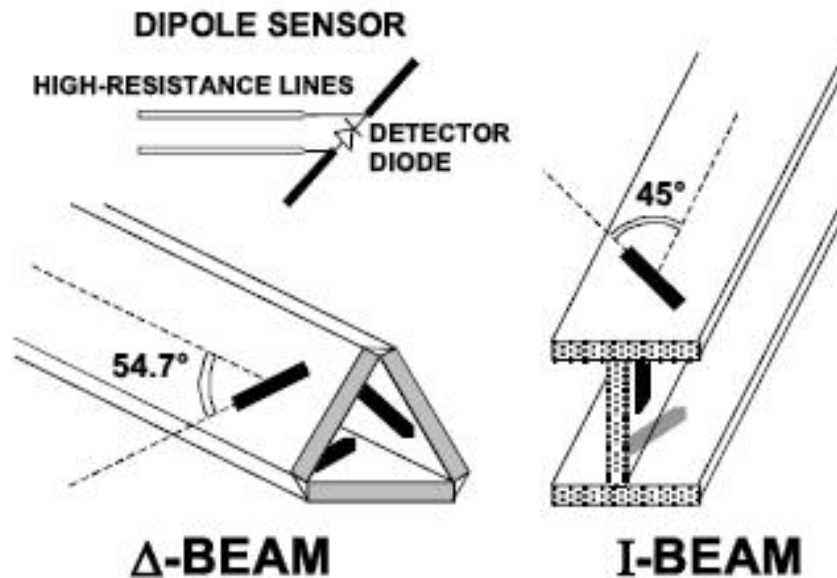
Frequency	450 MHz to 6 GHz; Linearity: 0.25 dB (450 MHz to 6 GHz)
Directivity	0.25 dB in HSL (rotation around probe axis) 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	0.01 W/kg to > 100 W/kg; Linearity: 0.25 dB
Dimensions	Overall length: 330 mm (Tip: 16 mm) Tip diameter: 5 mm (Body: 8 mm) Distance from probe tip to sensor centers: 2.5 mm
Application	General dosimetry up to 6 GHz Dosimetry in strong gradient fields Compliance tests of Mobile Phones

Isotropic E-Field Probe

The isotropic E-Field probe has been fully calibrated and assessed for isotropicity, and boundary effect within a controlled environment. Depending on the frequency for which the probe is calibrated the method utilized for calibration will change.

The E-Field probe utilizes a triangular sensor arrangement as detailed in the diagram below:

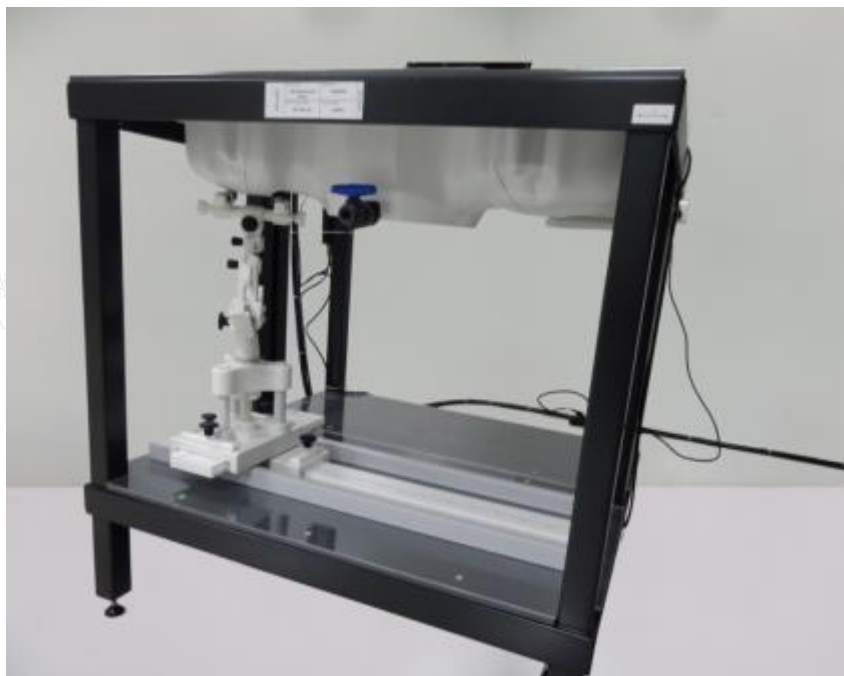




3.3. Phantoms

The SAM Phantom SAM117 is constructed of a fiberglass shell integrated in a wooden table. The shape of the shell is in compliance with the specification set in IEEE 1528 and EN62209-1, EN62209-2. The phantom enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents the evaporation of the liquid. Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot.

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.



SAM Twin Phantom

3.4. Device Holder

In combination with the Generic Twin Phantom SAM117, the Mounting Device enables the rotation of the





mounted transmitter in spherical coordinates whereby the rotation points is the ear opening. The devices can be easily, accurately, and repeatedly positioned according to the FCC specifications. The device holder can be locked at different phantom locations (left head, right head, flat phantom).



Device holder supplied by SATIMO

3.5. Scanning Procedure

The procedure for assessing the peak spatial-average SAR value consists of the following steps

Power Reference Measurement

The reference and drift jobs are useful jobs for monitoring the power drift of the device under test in the batch process. Both jobs measure the field at a specified reference position, at a selectable distance from the phantom surface. The reference position can be either the selected section's grid reference point or a user point in this section. The reference job projects the selected point onto the phantom surface, orients the probe perpendicularly to the surface, and approaches the surface using the selected detection method.

Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values before running a detailed measurement around the hot spot. Before starting the area scan a grid spacing of 15 mm x 15 mm is set. During the scan the distance of the probe to the phantom remains unchanged. After finishing area scan, the field maxima within a range of 2 dB will be ascertained.

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 mm $\pm$ 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2)$ mm $\pm$ 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° $\pm$ 1°	20° $\pm$ 1°
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

Zoom Scan

Zoom Scans are used to estimate the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. The default Zoom Scan is done by 7x7x7 points within a cube whose base is centered around the maxima found in the preceding area scan.





Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz}: \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz}: \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		$\leq 5 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	$\leq 4 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 3 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1) \text{ mm}$	
Minimum zoom scan volume	x, y, z		$\geq 30 \text{ mm}$	$3 - 4 \text{ GHz}: \geq 28 \text{ mm}$ $4 - 5 \text{ GHz}: \geq 25 \text{ mm}$ $5 - 6 \text{ GHz}: \geq 22 \text{ mm}$

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std 1528-2013 for details.

* When zoom scan is required and the *reported* SAR from the *area scan based 1-g SAR estimation* procedures of KDB Publication 447498 is $\leq 1.4 \text{ W/kg}$, $\leq 8 \text{ mm}$, $\leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.





Power Drift measurement

The drift job measures the field at the same location as the most recent reference job within the same procedure, and with the same settings. The drift measurement gives the field difference in dB from the reading conducted within the last reference measurement. Several drift measurements are possible for one reference measurement. This allows a user to monitor the power drift of the device under test within a batch process. In the properties of the Drift job, the user can specify a limit for the drift and have OPENSAR software stop the measurements if this limit is exceeded.

3.6. Data Storage and Evaluation

Data Storage

The OPENSAR software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files. The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [mW/g], [mW/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

Data Evaluation

The OPENSAR software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters:	- Sensitivity	Normi, ai0, ai1, ai2
	- Conversion factor	ConvFi
	- Diode compression point	Dcpi
Device parameters:	- Frequency	f
	- Crest factor	cf
Media parameters:	- Conductivity	σ
	- Density	ρ

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the OPENSAR components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$$

With V_i = compensated signal of channel i ($i = x, y, z$)

U_i = input signal of channel i ($i = x, y, z$)

cf = crest factor of exciting field

dcp_i = diode compression point

From the compensated input signals the primary field data for each channel can be evaluated:





$$\text{E - field probes : } E_i = \sqrt{\frac{V_i}{\text{Norm}_i \cdot \text{ConvF}}}$$

$$\text{H - field probes : } H_i = \sqrt{V_i} \cdot \frac{a_{i0} + a_{i1}f + a_{i2}f^2}{f}$$

With V_i = compensated signal of channel i ($i = x, y, z$)
 Norm_i = sensor sensitivity of channel i ($i = x, y, z$)
[mV/(V/m)²] for E-field Probes
 ConvF = sensitivity enhancement in solution
 a_{ij} = sensor sensitivity factors for H-field probes
 f = carrier frequency [GHz]
 E_i = electric field strength of channel i in V/m
 H_i = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{\text{tot}} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$

The primary field data are used to calculate the derived field units.

$$\text{SAR} = E_{\text{tot}}^2 \cdot \frac{\sigma}{\rho \cdot 1'000}$$

with SAR = local specific absorption rate in mW/g
 E_{tot} = total field strength in V/m
 σ = conductivity in [mho/m] or [Siemens/m]
 ρ = equivalent tissue density in g/cm³

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid.





3.7. Tissue Dielectric Parameters for Head and Body Phantoms

The liquid is consisted of water,salt,Glycol,Sugar,Preventol and Cellulose.The liquid has previously been proven to be suited for worst-case.It's satisfying the latest tissue dielectric parameters requirements proposed by the KDB865664.

The composition of the tissue simulating liquid

Ingredient (% Weight)	750MHz		835MHz		1800 MHz		1900 MHz		2450MHz		2600MHz		5000MHz	
	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body
Water	39.28	51.3	41.45	52.5	54.5	40.2	54.9	40.4	62.7	73.2	60.3	71.4	65.5	78.6
Preventol	0.10	0.10	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEC	1.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DGBE	0.00	0.00	0.00	0.00	45.33	59.31	44.92	59.10	36.80	26.70	39.10	28.40	0.00	0.00
Triton X-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.2	10.7

Target Frequency (MHz)	Head	
	ϵ_r	σ (S/m)
450	43.5	0.87
750	41.9	0.89
835	41.5	0.90
900	41.5	0.97
1450	40.5	1.20
1640	40.2	1.31
1800	40.0	1.40
1900	40.0	1.40
2000	40.0	1.40
2450	39.2	1.80
2600	39.0	1.96
3000	38.5	2.40
5200	36.0	4.66
5800	35.3	5.27

3.8. Tissue equivalent liquid properties

Dielectric Performance of Head Tissue Simulating Liquid

Test Engineer: bob.yang									
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue				Liquid Temp.	Test Data
		σ	ϵ_r	σ	Dev.	ϵ_r	Dev.		
750H	750	0.89	41.90	0.87	-2.25%	43.56	3.96%	21.3	07/25/2023
835H	835	0.90	41.50	0.89	-1.11%	42.98	3.57%	20.2	07/26/2023
1800H	1800	1.40	40.00	1.43	2.14%	39.42	-1.45%	22.3	07/28/2023
1900H	1900	1.40	40.00	1.42	1.43%	39.63	-0.92%	21.3	07/31/2023
2450H	2450	1.80	39.20	1.77	-1.67%	40.63	3.65%	23.3	08/02/2023
2600H	2600	1.96	39.00	1.98	1.02%	38.52	-1.23%	22.4	08/04/2023
5200H	5200	4.66	36.00	4.69	0.64%	35.74	-0.72%	23.2	08/08/2023
5800H	5800	5.27	35.30	5.25	-0.38%	36.42	3.17%	22.5	08/13/2023

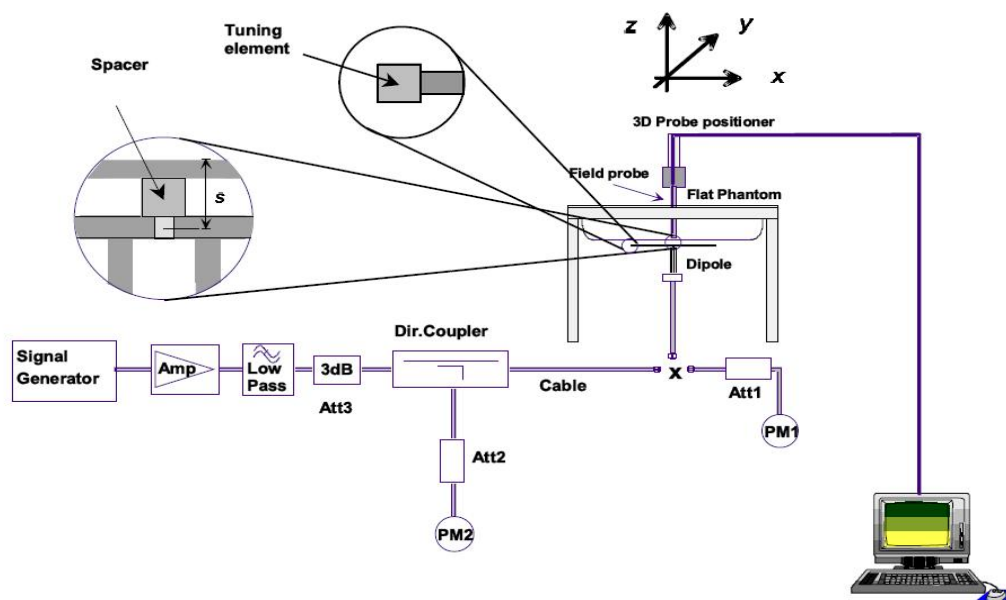




3.9. System Check

The purpose of the system check is to verify that the system operates within its specifications at the device test frequency. The system check is simple check of repeatability to make sure that the system works correctly at the time of the compliance test;

System check results have to be equal or near the values determined during dipole calibration with the relevant liquids and test system ($\pm 10\%$).



The output power on dipole port must be calibrated to 20 dBm (100mW) before dipole is connected.



Photo of Dipole Setup



**Justification for Extended SAR Dipole Calibrations**

Referring to KDB 865664D01V01r04, if dipoles are verified in return loss (<-20dB, within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended. While calibration intervals not exceed 3 years.

SID750 SN 07/14 DIP 0G750-302 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2021-09-29	-34.80		50.7		1.6	
2022-09-29	-34.35	-1.29	51.2	0.5	1.5	-0.1

SID835 SN 07/14 DIP 0G835-303 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2021-09-29	-24.49		54.9		2.8	
2022-09-29	-24.17	-1.31	54.5	-0.4	2.6	-0.2

SID1800 SN 30/14 DIP 1G800-301 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2021-09-29	-20.26		43.1		6.9	
2022-09-29	-20.13	-0.64	42.9	-0.2	6.7	-0.2

SID1900 SN 38/18 DIP 1G900-466 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2021-09-22	-26.43		50.5		4.7	
2022-09-22	-26.33	-0.38	50.2	-0.3	4.5	-0.2

SID2450 SN 07/14 DIP 2G450-306 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2021-09-29	-25.59		44.7		-1.1	
2022-09-29	-25.68	0.35	44.8	0.1	-1.0	0.1

SID2600 SN 38/18 DIP 2G600-468 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2021-09-22	-29.14		49.2		3.4	
2022-09-22	-29.12	-0.07	49.1	-0.1	3.2	-0.1

SID5200 SN 49/16 DIP WGA43 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2021-09-22	-8.59		19.38		13.50	
2022-09-22	-8.62	0.35	19.25	-0.13	13.47	-0.03

SID5800 SN 49/16 DIP WGA43 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2021-09-22	-11.37		54.79		25.47	
2022-09-22	-11.42	0.44	54.68	-0.11	25.26	-0.21



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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Mixture Type	Frequency (MHz)	Power	SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	Drift (%)	1W Target		Difference percentage		Liquid Temp	Date
						SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	1g	10g		
Head	750	100 mW	0.827	0.560	-4.52	8.38	5.53	-1.31%	1.27%	21.3	07/25/2023
		Normalize to 1 Watt	8.27	5.60							
Head	835	100 mW	0.951	0.638	0.33	9.60	6.20	-0.94%	2.90%	20.2	07/26/2023
		Normalize to 1 Watt	9.51	6.38							
Head	1800	100 mW	3.833	2.042	1.74	38.13	20.20	0.52%	1.09%	22.3	07/28/2023
		Normalize to 1 Watt	38.33	20.42							
Head	1900	100 mW	3.974	2.090	-2.20	40.03	20.55	-0.72%	1.70%	21.3	07/31/2023
		Normalize to 1 Watt	39.74	20.90							
Head	2450	100 mW	5.435	2.557	4.85	53.89	24.15	0.85%	5.88%	22.3	08/02/2023
		Normalize to 1 Watt	54.35	25.57							
Head	2600	100 mW	5.733	2.274	0.03	56.91	24.69	0.74%	-7.90%	22.4	08/04/2023
		Normalize to 1 Watt	57.33	22.74							
Head	5200	100 mW	17.218	5.900	-3.69	165.77	57.20	3.87%	3.15%	23.2	08/08/2023
		Normalize to 1 Watt	172.18	59.00							
Head	5800	100 mW	18.249	6.152	0.85	186.77	62.84	-2.29%	-2.10%	22.5	08/13/2023
		Normalize to 1 Watt	182.49	61.52							





3.10. SAR measurement procedure

The measurement procedures are as follows:

3.10.1 Conducted power measurement

- For WWAN power measurement, use base station simulator connection with RF cable, at maximum power in each supported wireless interface and frequency band.
- Read the WWAN RF power level from the base station simulator.
- For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously Transmission, at maximum RF power in each supported wireless interface and frequency band.
- Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power.

3.10.2 GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a System Simulator (SS) by air link. Using CMU200 the power level is set to "5" for GSM 850, set to "0" for GSM 1900. Since the GPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslots is 5. the EGPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslots is 5.

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. GSM voice and GPRS data use GMSK, which is a constant amplitude modulation with minimal peak to average power difference within the time-slot burst. For EDGE, GMSK is used for MCS 1 – MCS 4 and 8-PSK is used for MCS 5 – MCS 9; where 8-PSK has an inherently higher peak-to-average power ratio. The GMSK and 8-PSK EDGE configurations are considered separately for SAR compliance. The GMSK EDGE configurations are grouped with GPRS and considered with respect to time-averaged maximum output power to determine compliance. The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode.

3.10.3 UMTS Test Configuration

3G SAR Test Reduction Procedure

In the following procedures, the mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode. This is referred to as the 3G SAR test reduction procedure in the following SAR test guidance, where the primary mode is identified in the applicable wireless mode test procedures and the secondary mode is wireless mode being considered for SAR test reduction by that procedure. When the 3G SAR test reduction procedure is not satisfied, it is identified as "otherwise" in the applicable procedures; SAR measurement is required for the secondary mode.

Output power Verification

Maximum output power is verified on the high, middle and low channels according to procedures described in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC (transmit power control) set to all "1's" for WCDMA/HSDPA or by applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCH and spreading codes, HSDPA, HSPA) are required in the SAR report. All configurations that are not supported by the handset or cannot be measured due to technical or equipment limitations must be clearly identified.

Head SAR

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure.





1) Body-Worn Accessory SAR

SAR for body-worn accessory configurations is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCHn, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the handset, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC.

2) Handsets with Release 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body-worn accessory configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSDPA using the HSDPA body SAR procedures in the "Release 5 HSDPA Data Devices" section of this document, for the highest reported SAR body-worn accessory exposure configuration in 12.2 kbps RMC. Handsets with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

HSDPA should be configured according to the UE category of a test device. The number of HSDSCH/HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms with a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors (β_c , β_d), and HS-DPCCH power offset parameters (Δ_{ACK} , Δ_{NACK} , Δ_{CQI}) should be set according to values indicated in the Table below. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.

Table 2: Subtests for UMTS Release 5 HSDPA

Sub-set	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (note 1, note 2)	CM(dB) (note 3)	MPR(dB)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (note 4)	15/15 (note 4)	64	12/15 (note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8$ $\hookrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \hookrightarrow \beta_{hs} = 30/15 * \beta_c$
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 (TFC1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

HSUPA Test Configuration

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body-worn accessory configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSPA using the HSPA body SAR procedures in the "Release 6 HSPA Data Devices" section of this document, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When VOIP is applicable for next to the ear head exposure in HSPA, the 3G SAR test reduction procedure is applied to HSPA with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body-worn accessory measurements is tested for next to the ear head exposure.

Due to inner loop power control requirements in HSPA, a communication test set is required for output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSPA are configured according to the β values indicated in Table 2 and other applicable procedures described in the 'WCDMA Handset' and 'Release 5 HSDPA Data Devices' sections of this document.

Table 3: Sub-Test 5 Setup for Release 6 HSUPA

Sub-set	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM ⁽²⁾ (dB)	MPR (dB)	AG ⁽⁴⁾ Index	E- TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}:47/15$ $\beta_{ed2}:47/15$	4	2	2.0	1.0	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	0.0	21	81

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$.

Note 2: 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.

Note 3: 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 $\beta_d = 15/15$.

Note 4: 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 $\beta_d = 15/15$.

Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306

Figure 5.1g.

Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.

3.10.4 WIFI Test Configuration

The SAR measurement and test reduction procedures are structured according to either the DSSS or OFDM transmission mode configurations used in each standalone frequency band and aggregated band. For devices that operate in exposure configurations that require multiple test positions, additional SAR test reduction may be applied. The maximum output power specified for production units, including tune-up tolerance, are used to determine initial SAR test requirements for the 802.11 transmission modes in a frequency band. SAR is measured using the highest measured maximum output power channel for the initial test configuration. SAR measurement and test reduction for the remaining 802.11 modes and test channels are determined according to measured or specified maximum output power and reported SAR of the initial measurements. The general test reduction and SAR measurement approaches are summarized in the following:

1. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures.
2. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, an "initial test configuration" is first determined for each standalone and aggregated frequency band according to the maximum output power and tune-up tolerance specified for production units.
 - a. When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band.
 - b. SAR is measured for OFDM configurations using the initial test configuration procedures. Additional frequency band specific SAR test reduction may be considered for individual frequency bands
 - c. Depending on the reported SAR of the highest maximum output power channel tested in the initial test configuration, SAR test reduction may apply to subsequent highest output channels in the initial test configuration to reduce the number of SAR measurements.
3. The Initial test configuration does not apply to DSSS. The 2.4 GHz band SAR test requirements and 802.11b DSSS procedures are used to establish the transmission configurations required for SAR measurement.
4. An "initial test position" is applied to further reduce the number of SAR tests for devices operating in next to the ear, UMPC mini-tablet or hotspot mode exposure configurations that require multiple test positions.
 - a. SAR is measured for 802.11b according to the 2.4 GHz DSSS procedure using the exposure condition established by the initial test position.
 - b. SAR is measured for 2.4 GHz and 5 GHz OFDM configurations using the initial test configuration. 802.11b/g/n operating modes are tested independently according to the service requirements in each frequency band. 802.11b/g/n modes are tested on the maximum average output channel.
5. The Initial test position does not apply to devices that require a fixed exposure test position. SAR is measured in a fixed exposure test position for these devices in 802.11b according to the 2.4 GHz DSSS procedure or in 2.4 GHz and 5 GHz OFDM configurations using the initial test configuration procedures.
6. The "subsequent test configuration" procedures are applied to determine if additional SAR measurements are required for the remaining OFDM transmission modes that have not been tested in the initial test





configuration. SAR test exclusion is determined according to reported SAR in the initial test configuration and maximum output power specified or measured for these other OFDM configurations.

2.4 GHz and 5GHz SAR Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in section 5.2.2.

1. 802.11b DSSS SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- a. When the reported SAR of the highest measured maximum output power channel (section 3.1) for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- b. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

1. 2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3). SAR is not required for the following 2.4 GHz OFDM conditions.

- a. When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration
- b. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

2. SAR Test Requirements for OFDM Configurations

When SAR measurement is required for 802.11 a/g/n/ac OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. When the same transmitter and antenna(s) are used for U-NII-1 and U-NII-2A bands, additional SAR test reduction applies. When band gap channels between U-NII-2C band and 5.8 GHz U-NII-3 or §15.247 band are supported, the highest maximum output power transmission mode configuration and maximum output power channel across the bands must be used to determine SAR test reduction, according to the initial test configuration and subsequent test configuration requirements.²⁰ In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.

3. OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

The initial test configuration for 2.4 GHz and 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures (section 4). When multiple configurations in a frequency band have the same specified maximum output power, the initial test configuration is determined according to the following steps applied sequentially.

- a. The largest channel bandwidth configuration is selected among the multiple configurations with the same specified maximum output power.
- b. If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest order modulation among the largest channel bandwidth configurations is selected.
- c. If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
- d. When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n.

After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration and subsequent test configuration(s), with respect to the default power measurement procedures or additional power measurements required for





further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection.

- a. Channels with measured maximum output power within $\frac{1}{4}$ dB of each other are considered to have the same maximum output.
- b. When there are multiple test channels with the same measured maximum output power, the channel closest to mid-band frequency is selected for SAR measurement.
- c. When there are multiple test channels with the same measured maximum output power and equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

Initial Test Configuration Procedures

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required (see section 5.3.2). SAR test reduction of subsequent highest output test channels is based on the reported SAR of the initial test configuration.

For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode.²³ For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration. When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

4. Subsequent Test Configuration Procedures

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, the procedures in section 5.3.2 are applied to determine the test configuration. Additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

- a. When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
- b. When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.
- c. The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.
 - 1). SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.
 - 2). SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the reported SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested.
 - a) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.





- d. SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:
- 1) replace "subsequent test configuration" with "next subsequent test configuration" (i.e., subsequent next highest specified maximum output power configuration)
 - 2) replace "initial test configuration" with "all tested higher output power configurations."

3.11. Power Reduction

The product without any power reduction.

3.12. Power Drift

To control the output power stability during the SAR test, SAR system calculates the power drift by measuring the E-field at the same location at the beginning and at the end of the measurement for each test position. This ensures that the power drift during one measurement is within 5%.



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4. TEST CONDITIONS AND RESULTS

4.1. Conducted Power Results

According KDB 447498D01 General RF Exposure Guidance v06 Section 4.1 2) states that “Unless it is specified differently in the published RF exposure KDB procedures, these requirements also apply to test reduction and test exclusion considerations. Time-averaged maximum conducted output power applies to SAR and, as required by § 2.1091(c), time-averaged ERP applies to MPE. When an antenna port is not available on the device to support conducted power measurement, such as FRS and certain Part 15 transmitters with built-in integral antennas, the maximum output power allowed for production units should be used to determine RF exposure test exclusion and compliance.”

<UMTS Conducted Power>

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

HSDPA Setup Configuration:

- The EUT was connected to Base Station E5515C referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting:
 - Set Gain Factors (β_c and β_d) and parameters were set according to each
 - Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - Set RMC 12.2Kbps + HSDPA mode.
 - Set Cell Power = -86 dBm
 - Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - Select HSDPA Uplink Parameters
 - Set Delta ACK, Delta NACK and Delta CQI = 8
 - Set Ack-Nack Repetition Factor to 3
 - Set CQI Feedback Cycle (k) to 4 ms
 - Set CQI Repetition Factor to 2
 - Power Ctrl Mode = All Up bits
- The transmitted maximum output power was recorded.

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

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

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{hs} = 24/15 * \beta_c$.

Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: 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 signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

Setup Configuration

HSUPA Setup Configuration:

- The EUT was connected to Base Station R&S CMU200 referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting *:
 - Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK



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- ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
- iii. Set Cell Power = -86 dBm
- iv. Set Channel Type = 12.2k + HSPA
- v. Set UE Target Power
- vi. Power Ctrl Mode= Alternating bits
- vii. Set and observe the E-TFCl
- viii. Confirm that E-TFCl is equal to the target E-TFCl of 75 for sub-test 1, and other subtest's E-TFCl
- d. The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (Note 5) (Note 6)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 6)	E-TFCl
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/25	1309/225	4	1	1.0	0.0	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	1.0	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 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81

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

Note 2: 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.

Note 3: 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 signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: 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 signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

Note 5: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 6: β_{ed} can not be set directly, it is set by Absolute Grant Value.

General Note

- Per KDB 941225 D01, RMC 12.2kbps setting is used to evaluate SAR. If AMR 12.2kbps power is < 0.25dB higher than RMC 12.2kbps, SAR tests with AMR 12.2kbps can be excluded.
- By design, AMR and HSDPA/HSUPA RF power will not be larger than RMC 12.2kbps, detailed information is included in Tune-up Procure exhibit.
- It is expected by the manufacturer that MPR for some HSDPA/HSUPA subtests may differ from the specification of 3GPP, according to the chipset implementation in this model. The implementation and expected deviation are detailed in tune-up procedure exhibit.

Conducted Power Measurement Results(WCDMA Band II/IV/V)

Item	Band	FDD Band V result (dBm)			FDD Band II result (dBm)			FDD Band IV result (dBm)		
		Test Channel			Test Channel			Test Channel		
		4132/ 826.4	4183/ 836.6	4233/ 846.6	9262/ 1852.4	9400/ 1880	9538/ 1907.6	1312/ 1712.4	1413/ 1732.6	1513/ 1752.6
RMC	12.2kbps	24.83	24.59	24.73	25.16	25.13	25.19	24.83	25.02	25.04
HSDPA	Subtest 1	24.31	24.09	24.02	24.35	24.36	24.45	24.04	24.09	24.26
	Subtest 2	24.08	23.94	24.04	24.34	24.27	24.71	24.04	23.94	24.50
	Subtest 3	24.17	23.96	24.17	24.24	24.23	24.48	23.92	23.90	24.27
	Subtest 4	24.28	23.99	23.94	24.27	24.43	24.41	23.99	24.11	24.18
HSUPA	Subtest 1	24.23	23.91	24.06	24.39	24.45	24.44	24.04	24.13	24.23
	Subtest 2	24.09	23.92	23.81	24.18	24.21	24.40	23.90	23.89	24.19
	Subtest 3	23.92	23.93	24.07	24.34	24.48	24.43	24.04	24.14	24.24
	Subtest 4	23.94	23.88	24.02	24.17	24.15	24.31	23.82	23.83	24.08
	Subtest 5	23.07	22.92	22.83	23.24	23.46	23.49	22.94	23.17	23.26

Note:1. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/2$ dB higher than the primary mode (RMC12.2kbps) or when the highest reported SAR of the primary



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mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.



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**LTE Band2**

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)
Band2	1.4MHz	QPSK	18607	1RB#0	24.45
Band2	1.4MHz	QPSK	18607	1RB#2	24.42
Band2	1.4MHz	QPSK	18607	1RB#5	24.65
Band2	1.4MHz	QPSK	18607	3RB#1	24.80
Band2	1.4MHz	QPSK	18607	3RB#0	24.67
Band2	1.4MHz	QPSK	18607	3RB#3	24.75
Band2	1.4MHz	QPSK	18607	6RB#0	23.56
Band2	1.4MHz	QPSK	18900	1RB#5	24.56
Band2	1.4MHz	QPSK	18900	1RB#0	24.56
Band2	1.4MHz	QPSK	18900	1RB#2	24.52
Band2	1.4MHz	QPSK	18900	3RB#0	24.66
Band2	1.4MHz	QPSK	18900	3RB#1	24.69
Band2	1.4MHz	QPSK	18900	3RB#3	24.68
Band2	1.4MHz	QPSK	18900	6RB#0	23.54
Band2	1.4MHz	QPSK	19193	1RB#2	24.50
Band2	1.4MHz	QPSK	19193	1RB#5	24.23
Band2	1.4MHz	QPSK	19193	1RB#0	24.38
Band2	1.4MHz	QPSK	19193	3RB#0	24.67
Band2	1.4MHz	QPSK	19193	3RB#3	24.55
Band2	1.4MHz	QPSK	19193	3RB#1	24.58
Band2	1.4MHz	QPSK	19193	6RB#0	23.52
Band2	1.4MHz	16QAM	18607	1RB#2	23.16
Band2	1.4MHz	16QAM	18607	1RB#5	23.10
Band2	1.4MHz	16QAM	18607	1RB#0	23.06
Band2	1.4MHz	16QAM	18607	3RB#0	23.70
Band2	1.4MHz	16QAM	18607	3RB#1	23.75
Band2	1.4MHz	16QAM	18607	3RB#3	23.74
Band2	1.4MHz	16QAM	18607	6RB#0	22.69
Band2	1.4MHz	16QAM	18900	1RB#5	22.92
Band2	1.4MHz	16QAM	18900	1RB#0	23.19
Band2	1.4MHz	16QAM	18900	1RB#2	23.18
Band2	1.4MHz	16QAM	18900	3RB#3	23.71
Band2	1.4MHz	16QAM	18900	3RB#1	23.77
Band2	1.4MHz	16QAM	18900	3RB#0	23.67
Band2	1.4MHz	16QAM	18900	6RB#0	22.29
Band2	1.4MHz	16QAM	19193	1RB#2	23.30
Band2	1.4MHz	16QAM	19193	1RB#5	23.28
Band2	1.4MHz	16QAM	19193	1RB#0	23.19
Band2	1.4MHz	16QAM	19193	3RB#3	23.72
Band2	1.4MHz	16QAM	19193	3RB#1	23.60
Band2	1.4MHz	16QAM	19193	3RB#0	23.83
Band2	1.4MHz	16QAM	19193	6RB#0	22.81
Band2	3MHz	QPSK	18615	1RB#1	24.33
Band2	3MHz	QPSK	18615	1RB#0	24.62
Band2	3MHz	QPSK	18615	1RB#8	24.59
Band2	3MHz	QPSK	18615	8RB#7	23.52
Band2	3MHz	QPSK	18615	8RB#4	23.57
Band2	3MHz	QPSK	18615	8RB#0	23.54
Band2	3MHz	QPSK	18615	15RB#	23.54
Band2	3MHz	QPSK	18900	1RB#1	24.47
Band2	3MHz	QPSK	18900	1RB#8	24.60



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Band2	3MHz	QPSK	18900	1RB#0	24.53
Band2	3MHz	QPSK	18900	8RB#7	23.55
Band2	3MHz	QPSK	18900	8RB#0	23.62
Band2	3MHz	QPSK	18900	8RB#4	23.62
Band2	3MHz	QPSK	18900	15RB#	23.52
Band2	3MHz	QPSK	19185	1RB#1	24.27
Band2	3MHz	QPSK	19185	1RB#8	24.37
Band2	3MHz	QPSK	19185	1RB#0	24.61
Band2	3MHz	QPSK	19185	8RB#4	23.52
Band2	3MHz	QPSK	19185	8RB#0	23.75
Band2	3MHz	QPSK	19185	8RB#7	23.58
Band2	3MHz	QPSK	19185	15RB#0	23.64
Band2	3MHz	16QAM	18615	1RB#8	22.95
Band2	3MHz	16QAM	18615	1RB#14	23.00
Band2	3MHz	16QAM	18615	1RB#0	23.28
Band2	3MHz	16QAM	18615	8RB#0	22.43
Band2	3MHz	16QAM	18615	8RB#7	22.40
Band2	3MHz	16QAM	18615	8RB#4	22.44
Band2	3MHz	16QAM	18615	15RB#0	22.60
Band2	3MHz	16QAM	18900	1RB#8	23.17
Band2	3MHz	16QAM	18900	1RB#14	23.14
Band2	3MHz	16QAM	18900	1RB#0	23.16
Band2	3MHz	16QAM	18900	8RB#4	22.43
Band2	3MHz	16QAM	18900	8RB#0	22.54
Band2	3MHz	16QAM	18900	8RB#7	22.54
Band2	3MHz	16QAM	18900	15RB#0	22.78
Band2	3MHz	16QAM	19185	1RB#14	23.11
Band2	3MHz	16QAM	19185	1RB#0	23.15
Band2	3MHz	16QAM	19185	1RB#8	23.25
Band2	3MHz	16QAM	19185	8RB#0	22.50
Band2	3MHz	16QAM	19185	8RB#7	22.56
Band2	3MHz	16QAM	19185	8RB#4	22.48
Band2	3MHz	16QAM	19185	15RB#0	22.64
Band2	5MHz	QPSK	18625	1RB#24	24.48
Band2	5MHz	QPSK	18625	1RB#12	24.73
Band2	5MHz	QPSK	18625	1RB#0	24.54
Band2	5MHz	QPSK	18625	12RB#6	23.53
Band2	5MHz	QPSK	18625	12RB#0	23.51
Band2	5MHz	QPSK	18625	12RB#13	23.40
Band2	5MHz	QPSK	18625	25RB#0	23.45
Band2	5MHz	QPSK	18900	1RB#24	24.44
Band2	5MHz	QPSK	18900	1RB#0	24.43
Band2	5MHz	QPSK	18900	1RB#12	24.53
Band2	5MHz	QPSK	18900	12RB#6	23.61
Band2	5MHz	QPSK	18900	12RB#0	23.57
Band2	5MHz	QPSK	18900	12RB#13	23.60
Band2	5MHz	QPSK	18900	25RB#0	23.54
Band2	5MHz	QPSK	19175	1RB#0	24.58
Band2	5MHz	QPSK	19175	1RB#12	24.48
Band2	5MHz	QPSK	19175	1RB#24	24.35
Band2	5MHz	QPSK	19175	12RB#0	23.75
Band2	5MHz	QPSK	19175	12RB#6	23.60
Band2	5MHz	QPSK	19175	12RB#13	23.46



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Band2	5MHz	QPSK	19175	25RB#0	23.61
Band2	5MHz	16QAM	18625	1RB#0	23.20
Band2	5MHz	16QAM	18625	1RB#12	23.42
Band2	5MHz	16QAM	18625	1RB#24	22.75
Band2	5MHz	16QAM	18625	12RB#13	22.39
Band2	5MHz	16QAM	18625	12RB#0	22.64
Band2	5MHz	16QAM	18625	12RB#6	22.46
Band2	5MHz	16QAM	18625	25RB#0	22.51
Band2	5MHz	16QAM	18900	1RB#0	23.18
Band2	5MHz	16QAM	18900	1RB#12	23.61
Band2	5MHz	16QAM	18900	1RB#24	23.10
Band2	5MHz	16QAM	18900	12RB#0	22.57
Band2	5MHz	16QAM	18900	12RB#13	22.58
Band2	5MHz	16QAM	18900	12RB#6	22.40
Band2	5MHz	16QAM	18900	25RB#0	22.66
Band2	5MHz	16QAM	19175	1RB#0	23.27
Band2	5MHz	16QAM	19175	1RB#24	23.02
Band2	5MHz	16QAM	19175	1RB#12	23.48
Band2	5MHz	16QAM	19175	12RB#0	22.57
Band2	5MHz	16QAM	19175	12RB#6	22.50
Band2	5MHz	16QAM	19175	12RB#13	22.67
Band2	5MHz	16QAM	19175	25RB#0	22.60
Band2	10MHz	QPSK	18650	1RB#0	24.52
Band2	10MHz	QPSK	18650	1RB#24	25.01
Band2	10MHz	QPSK	18650	1RB#49	24.13
Band2	10MHz	QPSK	18650	25RB#12	23.57
Band2	10MHz	QPSK	18650	25RB#0	23.64
Band2	10MHz	QPSK	18650	25RB#25	23.31
Band2	10MHz	QPSK	18650	50RB#0	23.51
Band2	10MHz	QPSK	18900	1RB#49	24.06
Band2	10MHz	QPSK	18900	1RB#0	24.47
Band2	10MHz	QPSK	18900	1RB#24	25.03
Band2	10MHz	QPSK	18900	25RB#0	23.78
Band2	10MHz	QPSK	18900	25RB#12	23.63
Band2	10MHz	QPSK	18900	25RB#25	23.48
Band2	10MHz	QPSK	18900	50RB#0	23.56
Band2	10MHz	QPSK	19150	1RB#24	24.92
Band2	10MHz	QPSK	19150	1RB#49	24.05
Band2	10MHz	QPSK	19150	1RB#0	24.25
Band2	10MHz	QPSK	19150	25RB#0	23.71
Band2	10MHz	QPSK	19150	25RB#25	23.45
Band2	10MHz	QPSK	19150	25RB#12	23.74
Band2	10MHz	QPSK	19150	50RB#0	23.59
Band2	10MHz	16QAM	18650	1RB#24	23.13
Band2	10MHz	16QAM	18650	1RB#49	23.18
Band2	10MHz	16QAM	18650	1RB#0	23.33
Band2	10MHz	16QAM	18650	25RB#0	22.62
Band2	10MHz	16QAM	18650	25RB#12	22.60
Band2	10MHz	16QAM	18650	25RB#25	22.66
Band2	10MHz	16QAM	18650	50RB#0	22.48
Band2	10MHz	16QAM	18900	1RB#49	23.17
Band2	10MHz	16QAM	18900	1RB#0	23.26
Band2	10MHz	16QAM	18900	1RB#24	23.34



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Band2	10MHz	16QAM	18900	25RB#25	22.52
Band2	10MHz	16QAM	18900	25RB#12	22.71
Band2	10MHz	16QAM	18900	25RB#0	22.81
Band2	10MHz	16QAM	18900	50RB#0	22.75
Band2	10MHz	16QAM	19150	1RB#24	23.38
Band2	10MHz	16QAM	19150	1RB#49	23.24
Band2	10MHz	16QAM	19150	1RB#0	23.08
Band2	10MHz	16QAM	19150	25RB#25	22.55
Band2	10MHz	16QAM	19150	25RB#12	22.73
Band2	10MHz	16QAM	19150	25RB#0	22.75
Band2	10MHz	16QAM	19150	50RB#0	22.67
Band2	15MHz	QPSK	18675	1RB#74	24.15
Band2	15MHz	QPSK	18675	1RB#0	24.51
Band2	15MHz	QPSK	18675	1RB#38	25.00
Band2	15MHz	QPSK	18675	36RB#39	23.43
Band2	15MHz	QPSK	18675	36RB#18	23.57
Band2	15MHz	QPSK	18675	36RB#0	23.64
Band2	15MHz	QPSK	18675	75RB#0	23.53
Band2	15MHz	QPSK	18900	1RB#74	24.12
Band2	15MHz	QPSK	18900	1RB#38	24.82
Band2	15MHz	QPSK	18900	1RB#0	24.39
Band2	15MHz	QPSK	18900	36RB#0	23.78
Band2	15MHz	QPSK	18900	36RB#39	23.49
Band2	15MHz	QPSK	18900	36RB#18	23.61
Band2	15MHz	QPSK	18900	75RB#0	23.52
Band2	15MHz	QPSK	19125	1RB#74	24.10
Band2	15MHz	QPSK	19125	1RB#38	25.02
Band2	15MHz	QPSK	19125	1RB#0	24.27
Band2	15MHz	QPSK	19125	36RB#18	23.66
Band2	15MHz	QPSK	19125	36RB#0	23.58
Band2	15MHz	QPSK	19125	36RB#39	23.48
Band2	15MHz	QPSK	19125	75RB#0	23.56
Band2	15MHz	16QAM	18675	1RB#0	23.29
Band2	15MHz	16QAM	18675	1RB#74	23.01
Band2	15MHz	16QAM	18675	1RB#38	23.06
Band2	15MHz	16QAM	18675	36RB#0	22.55
Band2	15MHz	16QAM	18675	36RB#39	22.54
Band2	15MHz	16QAM	18675	36RB#18	22.52
Band2	15MHz	16QAM	18675	75RB#0	22.60
Band2	15MHz	16QAM	18900	1RB#38	23.17
Band2	15MHz	16QAM	18900	1RB#74	22.93
Band2	15MHz	16QAM	18900	1RB#0	22.99
Band2	15MHz	16QAM	18900	36RB#18	22.69
Band2	15MHz	16QAM	18900	36RB#0	22.56
Band2	15MHz	16QAM	18900	36RB#39	22.49
Band2	15MHz	16QAM	18900	75RB#0	22.70
Band2	15MHz	16QAM	19125	1RB#74	23.18
Band2	15MHz	16QAM	19125	1RB#0	23.17
Band2	15MHz	16QAM	19125	1RB#38	23.31
Band2	15MHz	16QAM	19125	36RB#0	22.51
Band2	15MHz	16QAM	19125	36RB#39	22.61
Band2	15MHz	16QAM	19125	36RB#18	22.63
Band2	15MHz	16QAM	19125	75RB#0	22.50



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Band2	20MHz	QPSK	18700	1RB#99	23.99
Band2	20MHz	QPSK	18700	1RB#49	24.87
Band2	20MHz	QPSK	18700	1RB#0	24.52
Band2	20MHz	QPSK	18700	50RB#25	23.71
Band2	20MHz	QPSK	18700	50RB#0	23.62
Band2	20MHz	QPSK	18700	50RB#50	23.48
Band2	20MHz	QPSK	18700	100RB#0	23.56
Band2	20MHz	QPSK	18900	1RB#99	24.23
Band2	20MHz	QPSK	18900	1RB#0	24.37
Band2	20MHz	QPSK	18900	1RB#49	24.95
Band2	20MHz	QPSK	18900	50RB#25	23.73
Band2	20MHz	QPSK	18900	50RB#0	23.76
Band2	20MHz	QPSK	18900	50RB#50	23.40
Band2	20MHz	QPSK	18900	100RB#0	23.60
Band2	20MHz	QPSK	19100	1RB#0	24.17
Band2	20MHz	QPSK	19100	1RB#49	25.11
Band2	20MHz	QPSK	19100	1RB#99	23.93
Band2	20MHz	QPSK	19100	50RB#0	23.54
Band2	20MHz	QPSK	19100	50RB#25	23.75
Band2	20MHz	QPSK	19100	50RB#50	23.55
Band2	20MHz	QPSK	19100	100RB#0	23.47
Band2	20MHz	16QAM	18700	1RB#0	23.31
Band2	20MHz	16QAM	18700	1RB#49	23.19
Band2	20MHz	16QAM	18700	1RB#99	23.18
Band2	20MHz	16QAM	18700	50RB#50	22.65
Band2	20MHz	16QAM	18700	50RB#0	22.52
Band2	20MHz	16QAM	18700	50RB#25	22.58
Band2	20MHz	16QAM	18700	100RB#0	22.63
Band2	20MHz	16QAM	18900	1RB#0	23.16
Band2	20MHz	16QAM	18900	1RB#49	23.26
Band2	20MHz	16QAM	18900	1RB#99	23.14
Band2	20MHz	16QAM	18900	50RB#0	22.56
Band2	20MHz	16QAM	18900	50RB#50	22.61
Band2	20MHz	16QAM	18900	50RB#25	22.63
Band2	20MHz	16QAM	18900	100RB#0	22.68
Band2	20MHz	16QAM	19100	1RB#0	23.21
Band2	20MHz	16QAM	19100	1RB#99	23.18
Band2	20MHz	16QAM	19100	1RB#49	23.19
Band2	20MHz	16QAM	19100	50RB#0	22.62
Band2	20MHz	16QAM	19100	50RB#25	22.56
Band2	20MHz	16QAM	19100	50RB#50	22.53
Band2	20MHz	16QAM	19100	100RB#0	22.51



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**LTE Band4**

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)
Band4	1.4MHz	QPSK	19957	1RB#0	24.37
Band4	1.4MHz	QPSK	19957	1RB#2	24.48
Band4	1.4MHz	QPSK	19957	1RB#5	24.46
Band4	1.4MHz	QPSK	19957	3RB#1	24.73
Band4	1.4MHz	QPSK	19957	3RB#0	24.57
Band4	1.4MHz	QPSK	19957	3RB#3	24.72
Band4	1.4MHz	QPSK	19957	6RB#0	23.51
Band4	1.4MHz	QPSK	20175	1RB#5	24.64
Band4	1.4MHz	QPSK	20175	1RB#0	24.52
Band4	1.4MHz	QPSK	20175	1RB#2	24.68
Band4	1.4MHz	QPSK	20175	3RB#0	24.75
Band4	1.4MHz	QPSK	20175	3RB#1	24.95
Band4	1.4MHz	QPSK	20175	3RB#3	24.72
Band4	1.4MHz	QPSK	20175	6RB#0	23.70
Band4	1.4MHz	QPSK	20393	1RB#2	24.73
Band4	1.4MHz	QPSK	20393	1RB#5	24.67
Band4	1.4MHz	QPSK	20393	1RB#0	24.59
Band4	1.4MHz	QPSK	20393	3RB#0	24.68
Band4	1.4MHz	QPSK	20393	3RB#3	24.86
Band4	1.4MHz	QPSK	20393	3RB#1	24.82
Band4	1.4MHz	QPSK	20393	6RB#0	23.76
Band4	1.4MHz	16QAM	19957	1RB#2	23.04
Band4	1.4MHz	16QAM	19957	1RB#5	23.16
Band4	1.4MHz	16QAM	19957	1RB#0	22.89
Band4	1.4MHz	16QAM	19957	3RB#0	23.69
Band4	1.4MHz	16QAM	19957	3RB#1	23.74
Band4	1.4MHz	16QAM	19957	3RB#3	23.48
Band4	1.4MHz	16QAM	19957	6RB#0	22.49
Band4	1.4MHz	16QAM	20175	1RB#5	23.40
Band4	1.4MHz	16QAM	20175	1RB#0	23.49
Band4	1.4MHz	16QAM	20175	1RB#2	23.49
Band4	1.4MHz	16QAM	20175	3RB#3	23.81
Band4	1.4MHz	16QAM	20175	3RB#1	23.66
Band4	1.4MHz	16QAM	20175	3RB#0	23.77
Band4	1.4MHz	16QAM	20175	6RB#0	22.63
Band4	1.4MHz	16QAM	20393	1RB#2	23.47
Band4	1.4MHz	16QAM	20393	1RB#5	23.47
Band4	1.4MHz	16QAM	20393	1RB#0	23.32
Band4	1.4MHz	16QAM	20393	3RB#3	23.81
Band4	1.4MHz	16QAM	20393	3RB#1	23.94
Band4	1.4MHz	16QAM	20393	3RB#0	23.90
Band4	1.4MHz	16QAM	20393	6RB#0	22.93
Band4	3MHz	QPSK	19965	1RB#14	24.53
Band4	3MHz	QPSK	19965	1RB#0	24.76
Band4	3MHz	QPSK	19965	1RB#8	24.65
Band4	3MHz	QPSK	19965	8RB#7	23.56
Band4	3MHz	QPSK	19965	8RB#4	23.68
Band4	3MHz	QPSK	19965	8RB#0	23.65
Band4	3MHz	QPSK	19965	15RB#0	23.51
Band4	3MHz	QPSK	20175	1RB#14	24.69
Band4	3MHz	QPSK	20175	1RB#8	24.66
Band4	3MHz	QPSK	20175	1RB#0	24.67
Band4	3MHz	QPSK	20175	8RB#7	23.67



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Band4	3MHz	QPSK	20175	8RB#0	23.84
Band4	3MHz	QPSK	20175	8RB#4	23.79
Band4	3MHz	QPSK	20175	15RB#0	23.76
Band4	3MHz	QPSK	20385	1RB#14	24.70
Band4	3MHz	QPSK	20385	1RB#8	24.64
Band4	3MHz	QPSK	20385	1RB#0	24.60
Band4	3MHz	QPSK	20385	8RB#4	23.75
Band4	3MHz	QPSK	20385	8RB#0	23.70
Band4	3MHz	QPSK	20385	8RB#7	23.72
Band4	3MHz	QPSK	20385	15RB#0	23.72
Band4	3MHz	16QAM	19965	1RB#8	22.92
Band4	3MHz	16QAM	19965	1RB#14	23.31
Band4	3MHz	16QAM	19965	1RB#0	23.26
Band4	3MHz	16QAM	19965	8RB#0	22.52
Band4	3MHz	16QAM	19965	8RB#7	22.50
Band4	3MHz	16QAM	19965	8RB#4	22.86
Band4	3MHz	16QAM	19965	15RB#0	22.55
Band4	3MHz	16QAM	20175	1RB#8	23.31
Band4	3MHz	16QAM	20175	1RB#14	23.34
Band4	3MHz	16QAM	20175	1RB#0	23.50
Band4	3MHz	16QAM	20175	8RB#4	22.74
Band4	3MHz	16QAM	20175	8RB#0	22.53
Band4	3MHz	16QAM	20175	8RB#7	22.70
Band4	3MHz	16QAM	20175	15RB#0	22.95
Band4	3MHz	16QAM	20385	1RB#14	23.57
Band4	3MHz	16QAM	20385	1RB#0	23.26
Band4	3MHz	16QAM	20385	1RB#8	23.39
Band4	3MHz	16QAM	20385	8RB#0	22.62
Band4	3MHz	16QAM	20385	8RB#7	22.61
Band4	3MHz	16QAM	20385	8RB#4	22.60
Band4	3MHz	16QAM	20385	15RB#0	22.80
Band4	5MHz	QPSK	19975	1RB#24	24.17
Band4	5MHz	QPSK	19975	1RB#12	24.35
Band4	5MHz	QPSK	19975	1RB#0	24.60
Band4	5MHz	QPSK	19975	12RB#6	23.57
Band4	5MHz	QPSK	19975	12RB#0	23.57
Band4	5MHz	QPSK	19975	12RB#13	23.52
Band4	5MHz	QPSK	19975	25RB#0	23.52
Band4	5MHz	QPSK	20175	1RB#24	24.62
Band4	5MHz	QPSK	20175	1RB#0	24.72
Band4	5MHz	QPSK	20175	1RB#12	24.56
Band4	5MHz	QPSK	20175	12RB#6	23.74
Band4	5MHz	QPSK	20175	12RB#0	23.85
Band4	5MHz	QPSK	20175	12RB#13	23.62
Band4	5MHz	QPSK	20175	25RB#0	23.70
Band4	5MHz	QPSK	20375	1RB#0	24.54
Band4	5MHz	QPSK	20375	1RB#12	24.93
Band4	5MHz	QPSK	20375	1RB#24	24.64
Band4	5MHz	QPSK	20375	12RB#0	23.74
Band4	5MHz	QPSK	20375	12RB#6	23.70
Band4	5MHz	QPSK	20375	12RB#13	23.74
Band4	5MHz	QPSK	20375	25RB#0	23.67
Band4	5MHz	16QAM	19975	1RB#0	23.05
Band4	5MHz	16QAM	19975	1RB#12	23.75
Band4	5MHz	16QAM	19975	1RB#24	23.13
Band4	5MHz	16QAM	19975	12RB#13	22.39



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Band4	5MHz	16QAM	19975	12RB#0	22.33
Band4	5MHz	16QAM	19975	12RB#6	22.69
Band4	5MHz	16QAM	19975	25RB#0	22.60
Band4	5MHz	16QAM	20175	1RB#0	23.37
Band4	5MHz	16QAM	20175	1RB#12	23.42
Band4	5MHz	16QAM	20175	1RB#24	23.31
Band4	5MHz	16QAM	20175	12RB#0	22.65
Band4	5MHz	16QAM	20175	12RB#13	22.73
Band4	5MHz	16QAM	20175	12RB#6	22.73
Band4	5MHz	16QAM	20175	25RB#0	22.86
Band4	5MHz	16QAM	20375	1RB#0	23.27
Band4	5MHz	16QAM	20375	1RB#24	23.37
Band4	5MHz	16QAM	20375	1RB#12	23.84
Band4	5MHz	16QAM	20375	12RB#0	22.65
Band4	5MHz	16QAM	20375	12RB#6	22.68
Band4	5MHz	16QAM	20375	12RB#13	22.76
Band4	5MHz	16QAM	20375	25RB#0	22.75
Band4	10MHz	QPSK	20000	1RB#0	24.58
Band4	10MHz	QPSK	20000	1RB#24	24.87
Band4	10MHz	QPSK	20000	1RB#49	24.39
Band4	10MHz	QPSK	20000	25RB#12	23.67
Band4	10MHz	QPSK	20000	25RB#0	23.66
Band4	10MHz	QPSK	20000	25RB#25	23.40
Band4	10MHz	QPSK	20000	50RB#0	23.55
Band4	10MHz	QPSK	20175	1RB#49	24.44
Band4	10MHz	QPSK	20175	1RB#0	24.53
Band4	10MHz	QPSK	20175	1RB#24	25.16
Band4	10MHz	QPSK	20175	25RB#	23.90
Band4	10MHz	QPSK	20175	25RB#12	23.91
Band4	10MHz	QPSK	20175	25RB#25	23.64
Band4	10MHz	QPSK	20175	50RB#0	23.66
Band4	10MHz	QPSK	20350	1RB#24	25.10
Band4	10MHz	QPSK	20350	1RB#49	24.64
Band4	10MHz	QPSK	20350	1RB#0	24.67
Band4	10MHz	QPSK	20350	25RB#0	23.77
Band4	10MHz	QPSK	20350	25RB#25	23.59
Band4	10MHz	QPSK	20350	25RB#12	23.83
Band4	10MHz	QPSK	20350	50RB#0	23.69
Band4	10MHz	16QAM	20000	1RB#24	23.17
Band4	10MHz	16QAM	20000	1RB#49	23.26
Band4	10MHz	16QAM	20000	1RB#0	23.30
Band4	10MHz	16QAM	20000	25RB#0	22.66
Band4	10MHz	16QAM	20000	25RB#12	22.61
Band4	10MHz	16QAM	20000	25RB#25	22.49
Band4	10MHz	16QAM	20000	50RB#0	22.61
Band4	10MHz	16QAM	20175	1RB#49	23.41
Band4	10MHz	16QAM	20175	1RB#0	23.37
Band4	10MHz	16QAM	20175	1RB#24	23.57
Band4	10MHz	16QAM	20175	25RB#25	22.61
Band4	10MHz	16QAM	20175	25RB#12	22.70
Band4	10MHz	16QAM	20175	25RB#0	22.86
Band4	10MHz	16QAM	20175	50RB#0	22.84
Band4	10MHz	16QAM	20350	1RB#24	23.60
Band4	10MHz	16QAM	20350	1RB#49	23.56
Band4	10MHz	16QAM	20350	1RB#0	23.55
Band4	10MHz	16QAM	20350	25RB#25	22.63





Band4	10MHz	16QAM	20350	25RB#12	22.92
Band4	10MHz	16QAM	20350	25RB#0	22.72
Band4	10MHz	16QAM	20350	50RB#0	22.78
Band4	15MHz	QPSK	20025	1RB#74	24.31
Band4	15MHz	QPSK	20025	1RB#0	24.49
Band4	15MHz	QPSK	20025	1RB#38	24.80
Band4	15MHz	QPSK	20025	36RB#39	23.45
Band4	15MHz	QPSK	20025	36RB#18	23.62
Band4	15MHz	QPSK	20025	36RB#0	23.62
Band4	15MHz	QPSK	20025	75RB#0	23.53
Band4	15MHz	QPSK	20175	1RB#74	24.58
Band4	15MHz	QPSK	20175	1RB#38	24.87
Band4	15MHz	QPSK	20175	1RB#0	24.43
Band4	15MHz	QPSK	20175	36RB#0	23.75
Band4	15MHz	QPSK	20175	36RB#39	23.62
Band4	15MHz	QPSK	20175	36RB#18	23.86
Band4	15MHz	QPSK	20175	75RB#0	23.61
Band4	15MHz	QPSK	20325	1RB#74	24.45
Band4	15MHz	QPSK	20325	1RB#38	24.94
Band4	15MHz	QPSK	20325	1RB#0	24.51
Band4	15MHz	QPSK	20325	36RB#18	23.87
Band4	15MHz	QPSK	20325	36RB#0	23.71
Band4	15MHz	QPSK	20325	36RB#39	23.54
Band4	15MHz	QPSK	20325	75RB#0	23.71
Band4	15MHz	16QAM	20025	1RB#0	23.23
Band4	15MHz	16QAM	20025	1RB#74	23.41
Band4	15MHz	16QAM	20025	1RB#38	23.20
Band4	15MHz	16QAM	20025	36RB#0	22.33
Band4	15MHz	16QAM	20025	36RB#39	22.64
Band4	15MHz	16QAM	20025	36RB#18	22.49
Band4	15MHz	16QAM	20025	75RB#0	22.51
Band4	15MHz	16QAM	20175	1RB#38	23.29
Band4	15MHz	16QAM	20175	1RB#74	23.30
Band4	15MHz	16QAM	20175	1RB#0	23.04
Band4	15MHz	16QAM	20175	36RB#18	22.74
Band4	15MHz	16QAM	20175	36RB#0	22.82
Band4	15MHz	16QAM	20175	36RB#39	22.70
Band4	15MHz	16QAM	20175	75RB#0	22.77
Band4	15MHz	16QAM	20325	1RB#74	23.41
Band4	15MHz	16QAM	20325	1RB#0	23.44
Band4	15MHz	16QAM	20325	1RB#38	23.35
Band4	15MHz	16QAM	20325	36RB#0	22.63
Band4	15MHz	16QAM	20325	36RB#39	22.73
Band4	15MHz	16QAM	20325	36RB#18	22.63
Band4	15MHz	16QAM	20325	75RB#0	22.79
Band4	20MHz	QPSK	20050	1RB#99	24.21
Band4	20MHz	QPSK	20050	1RB#49	24.98
Band4	20MHz	QPSK	20050	1RB#0	24.45
Band4	20MHz	QPSK	20050	50RB#25	23.76
Band4	20MHz	QPSK	20050	50RB#0	23.55
Band4	20MHz	QPSK	20050	50RB#50	23.54
Band4	20MHz	QPSK	20050	100RB#0	23.70
Band4	20MHz	QPSK	20175	1RB#99	24.48
Band4	20MHz	QPSK	20175	1RB#0	24.56
Band4	20MHz	QPSK	20175	1RB#49	25.10
Band4	20MHz	QPSK	20175	50RB#25	24.02



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band4	20MHz	QPSK	20175	50RB#0	23.90
Band4	20MHz	QPSK	20175	50RB#50	23.73
Band4	20MHz	QPSK	20175	100RB#0	23.77
Band4	20MHz	QPSK	20300	1RB#0	24.76
Band4	20MHz	QPSK	20300	1RB#49	25.08
Band4	20MHz	QPSK	20300	1RB#99	24.42
Band4	20MHz	QPSK	20300	50RB#0	23.97
Band4	20MHz	QPSK	20300	50RB#25	23.87
Band4	20MHz	QPSK	20300	50RB#50	23.64
Band4	20MHz	QPSK	20300	100RB#0	23.76
Band4	20MHz	16QAM	20050	1RB#0	22.92
Band4	20MHz	16QAM	20050	1RB#49	23.10
Band4	20MHz	16QAM	20050	1RB#99	23.06
Band4	20MHz	16QAM	20050	50RB#50	22.89
Band4	20MHz	16QAM	20050	50RB#0	22.55
Band4	20MHz	16QAM	20050	50RB#25	22.52
Band4	20MHz	16QAM	20050	100RB#0	22.77
Band4	20MHz	16QAM	20175	1RB#0	23.24
Band4	20MHz	16QAM	20175	1RB#49	23.50
Band4	20MHz	16QAM	20175	1RB#99	23.44
Band4	20MHz	16QAM	20175	50RB#0	22.82
Band4	20MHz	16QAM	20175	50RB#50	22.91
Band4	20MHz	16QAM	20175	50RB#25	22.93
Band4	20MHz	16QAM	20175	100RB#0	22.83
Band4	20MHz	16QAM	20300	1RB#0	23.51
Band4	20MHz	16QAM	20300	1RB#99	23.50
Band4	20MHz	16QAM	20300	1RB#49	23.64
Band4	20MHz	16QAM	20300	50RB#0	22.87
Band4	20MHz	16QAM	20300	50RB#25	22.62
Band4	20MHz	16QAM	20300	50RB#50	22.71
Band4	20MHz	16QAM	20300	100RB#0	22.75





LTE Band5

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)
Band5	1.4MHz	QPSK	20407	1RB#0	24.50
Band5	1.4MHz	QPSK	20407	1RB#2	24.50
Band5	1.4MHz	QPSK	20407	1RB#5	24.63
Band5	1.4MHz	QPSK	20407	3RB#0	24.72
Band5	1.4MHz	QPSK	20407	3RB#1	24.91
Band5	1.4MHz	QPSK	20407	3RB#3	24.87
Band5	1.4MHz	QPSK	20407	6RB#0	23.73
Band5	1.4MHz	QPSK	20525	1RB#0	24.31
Band5	1.4MHz	QPSK	20525	1RB#5	24.56
Band5	1.4MHz	QPSK	20525	1RB#2	24.42
Band5	1.4MHz	QPSK	20525	3RB#0	24.58
Band5	1.4MHz	QPSK	20525	3RB#1	24.88
Band5	1.4MHz	QPSK	20525	3RB#3	24.65
Band5	1.4MHz	QPSK	20525	6RB#0	23.55
Band5	1.4MHz	QPSK	20643	1RB#5	24.18
Band5	1.4MHz	QPSK	20643	1RB#0	24.40
Band5	1.4MHz	QPSK	20643	1RB#2	24.23
Band5	1.4MHz	QPSK	20643	3RB#0	24.47
Band5	1.4MHz	QPSK	20643	3RB#1	24.45
Band5	1.4MHz	QPSK	20643	3RB#3	24.40
Band5	1.4MHz	QPSK	20643	6RB#0	23.35
Band5	1.4MHz	16QAM	20407	1RB#0	23.26
Band5	1.4MHz	16QAM	20407	1RB#2	23.35
Band5	1.4MHz	16QAM	20407	1RB#5	22.99
Band5	1.4MHz	16QAM	20407	3RB#1	24.27
Band5	1.4MHz	16QAM	20407	3RB#0	24.26
Band5	1.4MHz	16QAM	20407	3RB#3	23.81
Band5	1.4MHz	16QAM	20407	6RB#0	22.86
Band5	1.4MHz	16QAM	20525	1RB#0	23.08
Band5	1.4MHz	16QAM	20525	1RB#2	23.26
Band5	1.4MHz	16QAM	20525	1RB#5	22.88
Band5	1.4MHz	16QAM	20525	3RB#3	23.98
Band5	1.4MHz	16QAM	20525	3RB#0	23.66
Band5	1.4MHz	16QAM	20525	3RB#1	23.76
Band5	1.4MHz	16QAM	20525	6RB#0	22.71
Band5	1.4MHz	16QAM	20643	1RB#2	23.07
Band5	1.4MHz	16QAM	20643	1RB#0	23.10
Band5	1.4MHz	16QAM	20643	1RB#5	22.98
Band5	1.4MHz	16QAM	20643	3RB#0	23.40
Band5	1.4MHz	16QAM	20643	3RB#1	23.89
Band5	1.4MHz	16QAM	20643	3RB#3	23.92
Band5	1.4MHz	16QAM	20643	6RB#0	22.36
Band5	3MHz	QPSK	20415	1RB#8	24.58
Band5	3MHz	QPSK	20415	1RB#14	24.33
Band5	3MHz	QPSK	20415	1RB#0	24.53
Band5	3MHz	QPSK	20415	8RB#0	23.70
Band5	3MHz	QPSK	20415	8RB#4	23.61
Band5	3MHz	QPSK	20415	8RB#7	23.57
Band5	3MHz	QPSK	20415	15RB#0	23.57
Band5	3MHz	QPSK	20525	1RB#0	24.37
Band5	3MHz	QPSK	20525	1RB#14	24.45
Band5	3MHz	QPSK	20525	1RB#8	24.56
Band5	3MHz	QPSK	20525	8RB#7	23.54
Band5	3MHz	QPSK	20525	8RB#0	23.49



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Band5	3MHz	QPSK	20525	8RB#4	23.59
Band5	3MHz	QPSK	20525	15RB#0	23.54
Band5	3MHz	QPSK	20635	1RB#8	24.45
Band5	3MHz	QPSK	20635	1RB#0	24.44
Band5	3MHz	QPSK	20635	1RB#14	24.22
Band5	3MHz	QPSK	20635	8RB#0	23.53
Band5	3MHz	QPSK	20635	8RB#7	23.26
Band5	3MHz	QPSK	20635	8RB#4	23.40
Band5	3MHz	QPSK	20635	15RB#0	23.36
Band5	3MHz	16QAM	20415	1RB#14	23.22
Band5	3MHz	16QAM	20415	1RB#0	22.82
Band5	3MHz	16QAM	20415	1RB#8	22.97
Band5	3MHz	16QAM	20415	8RB#7	22.64
Band5	3MHz	16QAM	20415	8RB#4	22.50
Band5	3MHz	16QAM	20415	8RB#0	22.56
Band5	3MHz	16QAM	20415	15RB#0	22.60
Band5	3MHz	16QAM	20525	1RB#14	22.85
Band5	3MHz	16QAM	20525	1RB#0	22.87
Band5	3MHz	16QAM	20525	1RB#8	23.20
Band5	3MHz	16QAM	20525	8RB#7	22.63
Band5	3MHz	16QAM	20525	8RB#0	22.46
Band5	3MHz	16QAM	20525	8RB#4	22.48
Band5	3MHz	16QAM	20525	15RB#0	22.48
Band5	3MHz	16QAM	20635	1RB#8	22.80
Band5	3MHz	16QAM	20635	1RB#0	22.83
Band5	3MHz	16QAM	20635	1RB#14	22.73
Band5	3MHz	16QAM	20635	8RB#0	22.39
Band5	3MHz	16QAM	20635	8RB#4	22.41
Band5	3MHz	16QAM	20635	8RB#7	22.18
Band5	3MHz	16QAM	20635	15RB#0	22.43
Band5	5MHz	QPSK	20425	1RB#0	24.61
Band5	5MHz	QPSK	20425	1RB#12	24.71
Band5	5MHz	QPSK	20425	1RB#24	24.46
Band5	5MHz	QPSK	20425	12RB#0	23.69
Band5	5MHz	QPSK	20425	12RB#6	23.61
Band5	5MHz	QPSK	20425	12RB#13	23.57
Band5	5MHz	QPSK	20425	25RB#0	23.64
Band5	5MHz	QPSK	20525	1RB#0	24.47
Band5	5MHz	QPSK	20525	1RB#24	24.34
Band5	5MHz	QPSK	20525	1RB#12	24.76
Band5	5MHz	QPSK	20525	12RB#0	23.44
Band5	5MHz	QPSK	20525	12RB#6	23.56
Band5	5MHz	QPSK	20525	12RB#13	23.46
Band5	5MHz	QPSK	20525	25RB#0	23.47
Band5	5MHz	QPSK	20625	1RB#24	24.31
Band5	5MHz	QPSK	20625	1RB#0	24.30
Band5	5MHz	QPSK	20625	1RB#12	24.67
Band5	5MHz	QPSK	20625	12RB#0	23.44
Band5	5MHz	QPSK	20625	12RB#6	23.47
Band5	5MHz	QPSK	20625	12RB#13	23.41
Band5	5MHz	QPSK	20625	25RB#0	23.48
Band5	5MHz	16QAM	20425	1RB#0	23.08
Band5	5MHz	16QAM	20425	1RB#12	23.64
Band5	5MHz	16QAM	20425	1RB#24	22.78
Band5	5MHz	16QAM	20425	12RB#6	22.75
Band5	5MHz	16QAM	20425	12RB#0	22.62



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Band5	5MHz	16QAM	20425	12RB#13	22.56
Band5	5MHz	16QAM	20425	25RB#0	22.83
Band5	5MHz	16QAM	20525	1RB#0	23.04
Band5	5MHz	16QAM	20525	1RB#12	23.33
Band5	5MHz	16QAM	20525	1RB#24	22.73
Band5	5MHz	16QAM	20525	12RB#13	22.64
Band5	5MHz	16QAM	20525	12RB#0	22.39
Band5	5MHz	16QAM	20525	12RB#6	22.73
Band5	5MHz	16QAM	20525	25RB#0	22.50
Band5	5MHz	16QAM	20625	1RB#12	23.52
Band5	5MHz	16QAM	20625	1RB#0	22.71
Band5	5MHz	16QAM	20625	1RB#24	22.94
Band5	5MHz	16QAM	20625	12RB#0	22.54
Band5	5MHz	16QAM	20625	12RB#6	22.73
Band5	5MHz	16QAM	20625	12RB#13	22.52
Band5	5MHz	16QAM	20625	25RB#0	22.58
Band5	10MHz	QPSK	20450	1RB#49	24.29
Band5	10MHz	QPSK	20450	1RB#24	24.97
Band5	10MHz	QPSK	20450	1RB#0	24.55
Band5	10MHz	QPSK	20450	25RB#0	23.80
Band5	10MHz	QPSK	20450	25RB#12	23.79
Band5	10MHz	QPSK	20450	25RB#25	23.52
Band5	10MHz	QPSK	20450	50RB#0	23.66
Band5	10MHz	QPSK	20525	1RB#0	24.35
Band5	10MHz	QPSK	20525	1RB#49	24.20
Band5	10MHz	QPSK	20525	1RB#24	25.04
Band5	10MHz	QPSK	20525	25RB#25	23.44
Band5	10MHz	QPSK	20525	25RB#0	23.64
Band5	10MHz	QPSK	20525	25RB#12	23.55
Band5	10MHz	QPSK	20525	50RB#0	23.56
Band5	10MHz	QPSK	20600	1RB#24	24.73
Band5	10MHz	QPSK	20600	1RB#0	24.41
Band5	10MHz	QPSK	20600	1RB#49	24.11
Band5	10MHz	QPSK	20600	25RB#0	23.69
Band5	10MHz	QPSK	20600	25RB#25	23.29
Band5	10MHz	QPSK	20600	25RB#12	23.51
Band5	10MHz	QPSK	20600	50RB#0	23.47
Band5	10MHz	16QAM	20450	1RB#49	23.19
Band5	10MHz	16QAM	20450	1RB#0	23.33
Band5	10MHz	16QAM	20450	1RB#24	23.37
Band5	10MHz	16QAM	20450	25RB#25	22.81
Band5	10MHz	16QAM	20450	25RB#12	22.90
Band5	10MHz	16QAM	20450	25RB#0	22.81
Band5	10MHz	16QAM	20450	50RB#0	22.80
Band5	10MHz	16QAM	20525	1RB#49	22.86
Band5	10MHz	16QAM	20525	1RB#0	22.96
Band5	10MHz	16QAM	20525	1RB#24	23.11
Band5	10MHz	16QAM	20525	25RB#25	22.60
Band5	10MHz	16QAM	20525	25RB#0	22.65
Band5	10MHz	16QAM	20525	25RB#12	22.67
Band5	10MHz	16QAM	20525	50RB#0	22.72
Band5	10MHz	16QAM	20600	1RB#24	23.12
Band5	10MHz	16QAM	20600	1RB#0	23.16
Band5	10MHz	16QAM	20600	1RB#49	23.10
Band5	10MHz	16QAM	20600	25RB#0	22.48
Band5	10MHz	16QAM	20600	25RB#12	22.55



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Band5	10MHz	16QAM	20600	25RB#25	22.42
Band5	10MHz	16QAM	20600	50RB#0	22.51





LTE Band7

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)
Band7	5MHz	QPSK	20775	1RB#0	24.85
Band7	5MHz	QPSK	20775	1RB#12	24.47
Band7	5MHz	QPSK	20775	1RB#24	24.53
Band7	5MHz	QPSK	20775	12RB#0	23.53
Band7	5MHz	QPSK	20775	12RB#6	23.57
Band7	5MHz	QPSK	20775	12RB#13	23.65
Band7	5MHz	QPSK	20775	25RB#0	23.57
Band7	5MHz	QPSK	21100	1RB#0	24.70
Band7	5MHz	QPSK	21100	1RB#24	24.68
Band7	5MHz	QPSK	21100	1RB#12	24.60
Band7	5MHz	QPSK	21100	12RB#0	23.70
Band7	5MHz	QPSK	21100	12RB#6	23.75
Band7	5MHz	QPSK	21100	12RB#13	23.87
Band7	5MHz	QPSK	21100	25RB#0	23.69
Band7	5MHz	QPSK	21425	1RB#24	24.65
Band7	5MHz	QPSK	21425	1RB#0	24.61
Band7	5MHz	QPSK	21425	1RB#12	24.52
Band7	5MHz	QPSK	21425	12RB#0	23.63
Band7	5MHz	QPSK	21425	12RB#6	23.66
Band7	5MHz	QPSK	21425	12RB#13	23.62
Band7	5MHz	QPSK	21425	25RB#0	23.46
Band7	5MHz	16QAM	20775	1RB#0	23.62
Band7	5MHz	16QAM	20775	1RB#12	23.00
Band7	5MHz	16QAM	20775	1RB#24	22.86
Band7	5MHz	16QAM	20775	12RB#6	22.67
Band7	5MHz	16QAM	20775	12RB#0	22.46
Band7	5MHz	16QAM	20775	12RB#13	22.58
Band7	5MHz	16QAM	20775	25RB#0	22.73
Band7	5MHz	16QAM	21100	1RB#0	23.27
Band7	5MHz	16QAM	21100	1RB#12	23.84
Band7	5MHz	16QAM	21100	1RB#24	23.14
Band7	5MHz	16QAM	21100	12RB#13	22.66
Band7	5MHz	16QAM	21100	12RB#0	22.47
Band7	5MHz	16QAM	21100	12RB#6	22.64
Band7	5MHz	16QAM	21100	25RB#0	22.58
Band7	5MHz	16QAM	21425	1RB#12	23.29
Band7	5MHz	16QAM	21425	1RB#0	23.24
Band7	5MHz	16QAM	21425	1RB#24	23.65
Band7	5MHz	16QAM	21425	12RB#0	22.25
Band7	5MHz	16QAM	21425	12RB#6	22.36
Band7	5MHz	16QAM	21425	12RB#13	22.32
Band7	5MHz	16QAM	21425	25RB#0	22.70
Band7	10MHz	QPSK	20800	1RB#24	24.55
Band7	10MHz	QPSK	20800	1RB#49	24.98
Band7	10MHz	QPSK	20800	1RB#0	24.59
Band7	10MHz	QPSK	20800	25RB#0	23.70
Band7	10MHz	QPSK	20800	25RB#12	23.84
Band7	10MHz	QPSK	20800	25RB#25	24.05
Band7	10MHz	QPSK	20800	50RB#0	23.83
Band7	10MHz	QPSK	21100	1RB#0	24.76
Band7	10MHz	QPSK	21100	1RB#49	24.90
Band7	10MHz	QPSK	21100	1RB#24	24.80
Band7	10MHz	QPSK	21100	25RB#25	23.74
Band7	10MHz	QPSK	21100	25RB#0	23.56



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Band7	10MHz	QPSK	21100	25RB#12	23.82
Band7	10MHz	QPSK	21100	50RB#0	23.72
Band7	10MHz	QPSK	21400	1RB#24	24.70
Band7	10MHz	QPSK	21400	1RB#0	24.99
Band7	10MHz	QPSK	21400	1RB#49	24.79
Band7	10MHz	QPSK	21400	25RB#0	23.72
Band7	10MHz	QPSK	21400	25RB#25	23.68
Band7	10MHz	QPSK	21400	25RB#12	23.60
Band7	10MHz	QPSK	21400	50RB#0	23.69
Band7	10MHz	16QAM	20800	1RB#49	23.34
Band7	10MHz	16QAM	20800	1RB#0	23.14
Band7	10MHz	16QAM	20800	1RB#24	23.40
Band7	10MHz	16QAM	20800	25RB#25	22.77
Band7	10MHz	16QAM	20800	25RB#12	22.70
Band7	10MHz	16QAM	20800	25RB#0	22.69
Band7	10MHz	16QAM	20800	50RB#0	22.71
Band7	10MHz	16QAM	21100	1RB#49	23.11
Band7	10MHz	16QAM	21100	1RB#0	23.26
Band7	10MHz	16QAM	21100	1RB#24	23.12
Band7	10MHz	16QAM	21100	25RB#25	22.82
Band7	10MHz	16QAM	21100	25RB#0	22.90
Band7	10MHz	16QAM	21100	25RB#12	22.73
Band7	10MHz	16QAM	21100	50RB#0	22.83
Band7	10MHz	16QAM	21400	1RB#24	23.37
Band7	10MHz	16QAM	21400	1RB#0	23.45
Band7	10MHz	16QAM	21400	1RB#49	23.26
Band7	10MHz	16QAM	21400	25RB#0	22.73
Band7	10MHz	16QAM	21400	25RB#12	22.78
Band7	10MHz	16QAM	21400	25RB#25	22.76
Band7	10MHz	16QAM	21400	50RB#0	22.86
Band7	15MHz	QPSK	20825	1RB#0	24.71
Band7	15MHz	QPSK	20825	1RB#38	24.82
Band7	15MHz	QPSK	20825	1RB#74	24.53
Band7	15MHz	QPSK	20825	36RB#0	23.77
Band7	15MHz	QPSK	20825	36RB#18	23.69
Band7	15MHz	QPSK	20825	36RB#39	23.68
Band7	15MHz	QPSK	20825	75RB#0	23.82
Band7	15MHz	QPSK	21100	1RB#0	24.85
Band7	15MHz	QPSK	21100	1RB#74	24.82
Band7	15MHz	QPSK	21100	1RB#38	24.92
Band7	15MHz	QPSK	21100	36RB#0	23.59
Band7	15MHz	QPSK	21100	36RB#18	23.77
Band7	15MHz	QPSK	21100	36RB#39	23.70
Band7	15MHz	QPSK	21100	75RB#0	23.73
Band7	15MHz	QPSK	21375	1RB#74	24.66
Band7	15MHz	QPSK	21375	1RB#O	24.57
Band7	15MHz	QPSK	21375	1RB#38	24.70
Band7	15MHz	QPSK	21375	36RB#0	23.60
Band7	15MHz	QPSK	21375	36RB#18	23.66
Band7	15MHz	QPSK	21375	36RB#39	23.65
Band7	15MHz	QPSK	21375	75RB#0	23.40
Band7	15MHz	16QAM	20825	1RB#0	23.02
Band7	15MHz	16QAM	20825	1RB#38	23.25
Band7	15MHz	16QAM	20825	1RB#74	23.53
Band7	15MHz	16QAM	20825	36RB#18	22.71
Band7	15MHz	16QAM	20825	36RB#0	22.60



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Band7	15MHz	16QAM	20825	36RB#39	22.78
Band7	15MHz	16QAM	20825	75RB#0	22.69
Band7	15MHz	16QAM	21100	1RB#0	23.38
Band7	15MHz	16QAM	21100	1RB#38	23.11
Band7	15MHz	16QAM	21100	1RB#74	23.09
Band7	15MHz	16QAM	21100	36RB#39	22.86
Band7	15MHz	16QAM	21100	36RB#0	22.70
Band7	15MHz	16QAM	21100	36RB#18	22.67
Band7	15MHz	16QAM	21100	75RB#0	22.76
Band7	15MHz	16QAM	21375	1RB#38	23.44
Band7	15MHz	16QAM	21375	1RB#0	22.93
Band7	15MHz	16QAM	21375	1RB#74	23.19
Band7	15MHz	16QAM	21375	36RB#0	22.64
Band7	15MHz	16QAM	21375	36RB#18	22.79
Band7	15MHz	16QAM	21375	36RB#39	22.57
Band7	15MHz	16QAM	21375	75RB#0	22.61
Band7	20MHz	QPSK	20850	1RB#99	24.78
Band7	20MHz	QPSK	20850	1RB#49	24.88
Band7	20MHz	QPSK	20850	1RB#0	24.93
Band7	20MHz	QPSK	20850	50RB#0	23.64
Band7	20MHz	QPSK	20850	50RB#25	23.94
Band7	20MHz	QPSK	20850	50RB#50	23.73
Band7	20MHz	QPSK	20850	100RB#0	23.63
Band7	20MHz	QPSK	21100	1RB#0	24.60
Band7	20MHz	QPSK	21100	1RB#99	24.90
Band7	20MHz	QPSK	21100	1RB#49	24.65
Band7	20MHz	QPSK	21100	50RB#50	23.58
Band7	20MHz	QPSK	21100	50RB#0	23.70
Band7	20MHz	QPSK	21100	50RB#25	23.81
Band7	20MHz	QPSK	21100	100RB#0	23.73
Band7	20MHz	QPSK	21350	1RB#49	24.53
Band7	20MHz	QPSK	21350	1RB#0	24.79
Band7	20MHz	QPSK	21350	1RB#99	24.75
Band7	20MHz	QPSK	21350	50RB#0	23.68
Band7	20MHz	QPSK	21350	50RB#50	23.77
Band7	20MHz	QPSK	21350	50RB#25	23.57
Band7	20MHz	QPSK	21350	100RB#0	23.67
Band7	20MHz	16QAM	20850	1RB#99	23.25
Band7	20MHz	16QAM	20850	1RB#0	23.46
Band7	20MHz	16QAM	20850	1RB#49	23.34
Band7	20MHz	16QAM	20850	50RB#50	22.87
Band7	20MHz	16QAM	20850	50RB#25	22.77
Band7	20MHz	16QAM	20850	50RB#0	23.07
Band7	20MHz	16QAM	20850	100RB#0	22.52
Band7	20MHz	16QAM	21100	1RB#99	23.18
Band7	20MHz	16QAM	21100	1RB#0	23.16
Band7	20MHz	16QAM	21100	1RB#49	23.31
Band7	20MHz	16QAM	21100	50RB#50	22.80
Band7	20MHz	16QAM	21100	50RB#0	22.84
Band7	20MHz	16QAM	21100	50RB#25	22.68
Band7	20MHz	16QAM	21100	100RB#0	22.74
Band7	20MHz	16QAM	21350	1RB#49	23.15
Band7	20MHz	16QAM	21350	1RB#0	23.08
Band7	20MHz	16QAM	21350	1RB#99	23.68
Band7	20MHz	16QAM	21350	50RB#0	22.81
Band7	20MHz	16QAM	21350	50RB#25	22.41



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Band7	20MHz	16QAM	21350	50RB#50	22.77
Band7	20MHz	16QAM	21350	100RB#0	22.59





LTE Band12

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)
Band12	1.4MHz	QPSK	23017	1RB#0	24.57
Band12	1.4MHz	QPSK	23017	1RB#2	24.77
Band12	1.4MHz	QPSK	23017	1RB#5	24.65
Band12	1.4MHz	QPSK	23017	3RB#0	24.65
Band12	1.4MHz	QPSK	23017	3RB#1	24.92
Band12	1.4MHz	QPSK	23017	3RB#3	24.82
Band12	1.4MHz	QPSK	23017	6RB#0	23.54
Band12	1.4MHz	QPSK	23095	1RB#0	24.60
Band12	1.4MHz	QPSK	23095	1RB#5	24.63
Band12	1.4MHz	QPSK	23095	1RB#2	24.54
Band12	1.4MHz	QPSK	23095	3RB#0	24.75
Band12	1.4MHz	QPSK	23095	3RB#1	24.96
Band12	1.4MHz	QPSK	23095	3RB#3	24.68
Band12	1.4MHz	QPSK	23095	6RB#0	23.63
Band12	1.4MHz	QPSK	23173	1RB#5	24.58
Band12	1.4MHz	QPSK	23173	1RB#0	24.58
Band12	1.4MHz	QPSK	23173	1RB#2	24.55
Band12	1.4MHz	QPSK	23173	3RB#0	24.60
Band12	1.4MHz	QPSK	23173	3RB#1	24.74
Band12	1.4MHz	QPSK	23173	3RB#3	24.74
Band12	1.4MHz	QPSK	23173	6RB#0	23.66
Band12	1.4MHz	16QAM	23017	1RB#0	23.14
Band12	1.4MHz	16QAM	23017	1RB#2	23.43
Band12	1.4MHz	16QAM	23017	1RB#5	23.22
Band12	1.4MHz	16QAM	23017	3RB#1	23.80
Band12	1.4MHz	16QAM	23017	3RB#0	23.97
Band12	1.4MHz	16QAM	23017	3RB#3	23.80
Band12	1.4MHz	16QAM	23017	6RB#0	22.66
Band12	1.4MHz	16QAM	23095	1RB#0	23.35
Band12	1.4MHz	16QAM	23095	1RB#2	23.32
Band12	1.4MHz	16QAM	23095	1RB#5	23.13
Band12	1.4MHz	16QAM	23095	3RB#3	23.77
Band12	1.4MHz	16QAM	23095	3RB#0	23.86
Band12	1.4MHz	16QAM	23095	3RB#1	24.10
Band12	1.4MHz	16QAM	23095	6RB#0	22.77
Band12	1.4MHz	16QAM	23173	1RB#2	23.32
Band12	1.4MHz	16QAM	23173	1RB#0	23.21
Band12	1.4MHz	16QAM	23173	1RB#5	23.09
Band12	1.4MHz	16QAM	23173	3RB#0	23.78
Band12	1.4MHz	16QAM	23173	3RB#1	23.89
Band12	1.4MHz	16QAM	23173	3RB#3	24.05
Band12	1.4MHz	16QAM	23173	6RB#0	22.73
Band12	3MHz	QPSK	23025	1RB#8	24.62
Band12	3MHz	QPSK	23025	1RB#14	24.54
Band12	3MHz	QPSK	23025	1RB#0	24.66
Band12	3MHz	QPSK	23025	8RB#0	23.59
Band12	3MHz	QPSK	23025	8RB#4	23.61
Band12	3MHz	QPSK	23025	8RB#7	23.75
Band12	3MHz	QPSK	23025	15RB#0	23.65
Band12	3MHz	QPSK	23095	1RB#0	24.68
Band12	3MHz	QPSK	23095	1RB#14	24.40
Band12	3MHz	QPSK	23095	1RB#8	24.74
Band12	3MHz	QPSK	23095	8RB#7	23.54
Band12	3MHz	QPSK	23095	8RB#0	23.71



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Band12	3MHz	QPSK	23095	8RB#4	23.63
Band12	3MHz	QPSK	23095	15RB#0	23.68
Band12	3MHz	QPSK	23165	1RB#8	24.63
Band12	3MHz	QPSK	23165	1RB#0	24.78
Band12	3MHz	QPSK	23165	1RB#14	24.54
Band12	3MHz	QPSK	23165	8RB#0	23.58
Band12	3MHz	QPSK	23165	8RB#7	23.61
Band12	3MHz	QPSK	23165	8RB#4	23.72
Band12	3MHz	QPSK	23165	15RB#0	23.62
Band12	3MHz	16QAM	23025	1RB#14	23.21
Band12	3MHz	16QAM	23025	1RB#0	23.31
Band12	3MHz	16QAM	23025	1RB#8	23.02
Band12	3MHz	16QAM	23025	8RB#7	22.82
Band12	3MHz	16QAM	23025	8RB#4	22.71
Band12	3MHz	16QAM	23025	8RB#0	22.51
Band12	3MHz	16QAM	23025	15RB#0	22.77
Band12	3MHz	16QAM	23095	1RB#14	23.02
Band12	3MHz	16QAM	23095	1RB#0	23.16
Band12	3MHz	16QAM	23095	1RB#8	23.12
Band12	3MHz	16QAM	23095	8RB#7	22.69
Band12	3MHz	16QAM	23095	8RB#0	22.66
Band12	3MHz	16QAM	23095	8RB#4	22.62
Band12	3MHz	16QAM	23095	15RB#0	22.89
Band12	3MHz	16QAM	23165	1RB#8	23.25
Band12	3MHz	16QAM	23165	1RB#0	23.13
Band12	3MHz	16QAM	23165	1RB#14	23.17
Band12	3MHz	16QAM	23165	8RB#0	22.63
Band12	3MHz	16QAM	23165	8RB#4	22.67
Band12	3MHz	16QAM	23165	8RB#7	22.62
Band12	3MHz	16QAM	23165	15RB#0	22.93
Band12	5MHz	QPSK	23035	1RB#0	24.53
Band12	5MHz	QPSK	23035	1RB#12	24.96
Band12	5MHz	QPSK	23035	1RB#24	24.65
Band12	5MHz	QPSK	23035	12RB#0	23.71
Band12	5MHz	QPSK	23035	12RB#6	23.73
Band12	5MHz	QPSK	23035	12RB#13	23.59
Band12	5MHz	QPSK	23035	25RB#0	23.51
Band12	5MHz	QPSK	23095	1RB#0	24.57
Band12	5MHz	QPSK	23095	1RB#24	24.22
Band12	5MHz	QPSK	23095	1RB#12	24.80
Band12	5MHz	QPSK	23095	12RB#0	23.66
Band12	5MHz	QPSK	23095	12RB#6	23.69
Band12	5MHz	QPSK	23095	12RB#13	23.51
Band12	5MHz	QPSK	23095	25RB#0	23.67
Band12	5MHz	QPSK	23155	1RB#24	24.33
Band12	5MHz	QPSK	23155	1RB#0	24.40
Band12	5MHz	QPSK	23155	1RB#12	24.75
Band12	5MHz	QPSK	23155	12RB#0	23.49
Band12	5MHz	QPSK	23155	12RB#6	23.57
Band12	5MHz	QPSK	23155	12RB#13	23.50
Band12	5MHz	QPSK	23155	25RB#0	23.52
Band12	5MHz	16QAM	23035	1RB#0	23.30
Band12	5MHz	16QAM	23035	1RB#12	23.83
Band12	5MHz	16QAM	23035	1RB#24	22.93
Band12	5MHz	16QAM	23035	12RB#6	22.91
Band12	5MHz	16QAM	23035	12RB#0	22.65



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Band12	5MHz	16QAM	23035	12RB#13	22.67
Band12	5MHz	16QAM	23035	25RB#0	22.80
Band12	5MHz	16QAM	23095	1RB#0	23.23
Band12	5MHz	16QAM	23095	1RB#12	23.61
Band12	5MHz	16QAM	23095	1RB#24	23.01
Band12	5MHz	16QAM	23095	12RB#13	22.58
Band12	5MHz	16QAM	23095	12RB#0	22.69
Band12	5MHz	16QAM	23095	12RB#6	22.76
Band12	5MHz	16QAM	23095	25RB#0	22.61
Band12	5MHz	16QAM	23155	1RB#12	23.64
Band12	5MHz	16QAM	23155	1RB#0	23.06
Band12	5MHz	16QAM	23155	1RB#24	23.04
Band12	5MHz	16QAM	23155	12RB#0	22.60
Band12	5MHz	16QAM	23155	12RB#6	22.82
Band12	5MHz	16QAM	23155	12RB#13	22.56
Band12	5MHz	16QAM	23155	25RB#0	22.56
Band12	10MHz	QPSK	23060	1RB#49	24.28
Band12	10MHz	QPSK	23060	1RB#24	25.03
Band12	10MHz	QPSK	23060	1RB#0	24.37
Band12	10MHz	QPSK	23060	25RB#0	23.81
Band12	10MHz	QPSK	23060	25RB#12	23.66
Band12	10MHz	QPSK	23060	25RB#25	23.52
Band12	10MHz	QPSK	23060	50RB#0	23.62
Band12	10MHz	QPSK	23095	1RB#0	24.43
Band12	10MHz	QPSK	23095	1RB#49	24.32
Band12	10MHz	QPSK	23095	1RB#24	24.89
Band12	10MHz	QPSK	23095	25RB#25	23.46
Band12	10MHz	QPSK	23095	25RB#0	23.75
Band12	10MHz	QPSK	23095	25RB#12	23.64
Band12	10MHz	QPSK	23095	50RB#0	23.60
Band12	10MHz	QPSK	23130	1RB#24	24.88
Band12	10MHz	QPSK	23130	1RB#0	24.54
Band12	10MHz	QPSK	23130	1RB#49	24.36
Band12	10MHz	QPSK	23130	25RB#0	23.73
Band12	10MHz	QPSK	23130	25RB#25	23.51
Band12	10MHz	QPSK	23130	25RB#12	23.86
Band12	10MHz	QPSK	23130	50RB#0	23.55
Band12	10MHz	16QAM	23060	1RB#49	23.31
Band12	10MHz	16QAM	23060	1RB#0	23.25
Band12	10MHz	16QAM	23060	1RB#24	23.00
Band12	10MHz	16QAM	23060	25RB#25	22.80
Band12	10MHz	16QAM	23060	25RB#12	22.83
Band12	10MHz	16QAM	23060	25RB#0	22.51
Band12	10MHz	16QAM	23060	50RB#0	22.81
Band12	10MHz	16QAM	23095	1RB#49	23.10
Band12	10MHz	16QAM	23095	1RB#0	23.24
Band12	10MHz	16QAM	23095	1RB#24	23.40
Band12	10MHz	16QAM	23095	25RB#25	22.62
Band12	10MHz	16QAM	23095	25RB#0	22.73
Band12	10MHz	16QAM	23095	25RB#12	22.69
Band12	10MHz	16QAM	23095	50RB#0	22.64
Band12	10MHz	16QAM	23130	1RB#24	23.23
Band12	10MHz	16QAM	23130	1RB#0	23.33
Band12	10MHz	16QAM	23130	1RB#49	23.13
Band12	10MHz	16QAM	23130	25RB#0	22.76
Band12	10MHz	16QAM	23130	25RB#12	22.85



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Band12	10MHz	16QAM	23130	25RB#25	22.73
Band12	10MHz	16QAM	23130	50RB#0	22.60



**LTE Band13**

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)
Band13	5MHz	QPSK	23205	1RB#12	24.53
Band13	5MHz	QPSK	23205	1RB#24	24.95
Band13	5MHz	QPSK	23205	1RB#0	24.96
Band13	5MHz	QPSK	23205	12RB#0	23.63
Band13	5MHz	QPSK	23205	12RB#6	23.69
Band13	5MHz	QPSK	23205	12RB#13	23.65
Band13	5MHz	QPSK	23205	25RB#0	23.58
Band13	5MHz	QPSK	23230	1RB#0	24.62
Band13	5MHz	QPSK	23230	1RB#12	24.80
Band13	5MHz	QPSK	23230	1RB#24	24.56
Band13	5MHz	QPSK	23230	12RB#0	23.62
Band13	5MHz	QPSK	23230	12RB#6	23.72
Band13	5MHz	QPSK	23230	12RB#13	23.57
Band13	5MHz	QPSK	23230	25RB#0	23.65
Band13	5MHz	QPSK	23255	1RB#24	24.63
Band13	5MHz	QPSK	23255	1RB#0	24.43
Band13	5MHz	QPSK	23255	1RB#12	24.59
Band13	5MHz	QPSK	23255	12RB#6	23.57
Band13	5MHz	QPSK	23255	12RB#0	23.64
Band13	5MHz	QPSK	23255	12RB#13	23.56
Band13	5MHz	QPSK	23255	25RB#0	23.59
Band13	5MHz	16QAM	23205	1RB#12	23.73
Band13	5MHz	16QAM	23205	1RB#0	23.24
Band13	5MHz	16QAM	23205	1RB#24	23.13
Band13	5MHz	16QAM	23205	12RB#13	22.57
Band13	5MHz	16QAM	23205	12RB#6	22.53
Band13	5MHz	16QAM	23205	12RB#0	22.77
Band13	5MHz	16QAM	23205	25RB#0	22.73
Band13	5MHz	16QAM	23230	1RB#0	23.38
Band13	5MHz	16QAM	23230	1RB#12	23.65
Band13	5MHz	16QAM	23230	1RB#24	23.14
Band13	5MHz	16QAM	23230	12RB#0	22.60
Band13	5MHz	16QAM	23230	12RB#6	22.66
Band13	5MHz	16QAM	23230	12RB#13	22.60
Band13	5MHz	16QAM	23230	25RB#0	22.64
Band13	5MHz	16QAM	23255	1RB#0	23.24
Band13	5MHz	16QAM	23255	1RB#12	23.73
Band13	5MHz	16QAM	23255	1RB#24	23.10
Band13	5MHz	16QAM	23255	12RB#13	22.71
Band13	5MHz	16QAM	23255	12RB#0	22.58
Band13	5MHz	16QAM	23255	12RB#6	22.60
Band13	5MHz	16QAM	23255	25RB#0	22.77
Band13	10MHz	QPSK	23230	1RB#49	24.47
Band13	10MHz	QPSK	23230	1RB#24	24.58
Band13	10MHz	QPSK	23230	1RB#0	24.70
Band13	10MHz	QPSK	23230	25RB#0	23.63
Band13	10MHz	QPSK	23230	25RB#12	23.68
Band13	10MHz	QPSK	23230	25RB#25	23.51
Band13	10MHz	QPSK	23230	50RB#0	23.52
Band13	10MHz	16QAM	23230	1RB#49	23.35
Band13	10MHz	16QAM	23230	1RB#0	23.41
Band13	10MHz	16QAM	23230	1RB#24	23.28
Band13	10MHz	16QAM	23230	25RB#0	22.61



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Band13	10MHz	16QAM	23230	25RB#12	22.63
Band13	10MHz	16QAM	23230	25RB#25	22.60
Band13	10MHz	16QAM	23230	50RB#0	22.70





LTE Band14

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)
Band14	5MHz	QPSK	23305	1RB#12	24.97
Band14	5MHz	QPSK	23305	1RB#24	24.76
Band14	5MHz	QPSK	23305	1RB#0	24.50
Band14	5MHz	QPSK	23305	12RB#0	23.85
Band14	5MHz	QPSK	23305	12RB#6	23.88
Band14	5MHz	QPSK	23305	12RB#13	23.63
Band14	5MHz	QPSK	23305	25RB#0	23.75
Band14	5MHz	QPSK	23330	1RB#0	24.77
Band14	5MHz	QPSK	23330	1RB#12	24.78
Band14	5MHz	QPSK	23330	1RB#24	24.81
Band14	5MHz	QPSK	23330	12RB#0	23.64
Band14	5MHz	QPSK	23330	12RB#6	23.88
Band14	5MHz	QPSK	23330	12RB#13	23.55
Band14	5MHz	QPSK	23330	25RB#0	23.72
Band14	5MHz	QPSK	23355	1RB#24	24.76
Band14	5MHz	QPSK	23355	1RB#0	24.70
Band14	5MHz	QPSK	23355	1RB#12	24.69
Band14	5MHz	QPSK	23355	12RB#6	23.80
Band14	5MHz	QPSK	23355	12RB#0	23.91
Band14	5MHz	QPSK	23355	12RB#13	23.56
Band14	5MHz	QPSK	23355	25RB#0	23.66
Band14	5MHz	16QAM	23305	1RB#12	23.81
Band14	5MHz	16QAM	23305	1RB#0	23.27
Band14	5MHz	16QAM	23305	1RB#24	23.41
Band14	5MHz	16QAM	23305	12RB#13	22.64
Band14	5MHz	16QAM	23305	12RB#6	22.76
Band14	5MHz	16QAM	23305	12RB#0	22.81
Band14	5MHz	16QAM	23305	25RB#0	22.87
Band14	5MHz	16QAM	23330	1RB#0	23.30
Band14	5MHz	16QAM	23330	1RB#12	23.74
Band14	5MHz	16QAM	23330	1RB#24	23.37
Band14	5MHz	16QAM	23330	12RB#0	22.70
Band14	5MHz	16QAM	23330	12RB#6	22.84
Band14	5MHz	16QAM	23330	12RB#13	22.60
Band14	5MHz	16QAM	23330	25RB#0	22.73
Band14	5MHz	16QAM	23355	1RB#0	23.33
Band14	5MHz	16QAM	23355	1RB#12	23.78
Band14	5MHz	16QAM	23355	1RB#24	23.33
Band14	5MHz	16QAM	23355	12RB#13	22.73
Band14	5MHz	16QAM	23355	12RB#0	22.63
Band14	5MHz	16QAM	23355	12RB#6	22.65
Band14	5MHz	16QAM	23355	25RB#0	22.75
Band14	10MHz	QPSK	23330	1RB#49	24.25
Band14	10MHz	QPSK	23330	1RB#24	24.81
Band14	10MHz	QPSK	23330	1RB#0	24.67
Band14	10MHz	QPSK	23330	25RB#0	25.29
Band14	10MHz	QPSK	23330	25RB#12	23.87
Band14	10MHz	QPSK	23330	25RB#25	23.57
Band14	10MHz	QPSK	23330	50RB#0	23.66
Band14	10MHz	16QAM	23330	1RB#49	23.43
Band14	10MHz	16QAM	23330	1RB#0	23.22
Band14	10MHz	16QAM	23330	1RB#24	23.34
Band14	10MHz	16QAM	23330	25RB#0	22.96
Band14	10MHz	16QAM	23330	25RB#12	22.86



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Band14	10MHz	16QAM	23330	25RB#25	22.64
Band14	10MHz	16QAM	23330	50RB#0	22.86





LTE Band25

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)
Band25	1.4MHz	QPSK	26047	1RB#0	24.53
Band25	1.4MHz	QPSK	26047	1RB#2	24.67
Band25	1.4MHz	QPSK	26047	1RB#5	24.30
Band25	1.4MHz	QPSK	26047	3RB#1	24.76
Band25	1.4MHz	QPSK	26047	3RB#0	24.62
Band25	1.4MHz	QPSK	26047	3RB#3	24.71
Band25	1.4MHz	QPSK	26047	6RB#0	23.51
Band25	1.4MHz	QPSK	26365	1RB#5	24.30
Band25	1.4MHz	QPSK	26365	1RB#0	24.28
Band25	1.4MHz	QPSK	26365	1RB#2	24.56
Band25	1.4MHz	QPSK	26365	3RB#0	24.51
Band25	1.4MHz	QPSK	26365	3RB#1	24.58
Band25	1.4MHz	QPSK	26365	3RB#3	24.53
Band25	1.4MHz	QPSK	26365	6RB#0	23.47
Band25	1.4MHz	QPSK	26683	1RB#2	24.35
Band25	1.4MHz	QPSK	26683	1RB#5	24.36
Band25	1.4MHz	QPSK	26683	1RB#0	24.36
Band25	1.4MHz	QPSK	26683	3RB#0	24.28
Band25	1.4MHz	QPSK	26683	3RB#3	24.36
Band25	1.4MHz	QPSK	26683	3RB#1	24.63
Band25	1.4MHz	QPSK	26683	6RB#0	23.30
Band25	1.4MHz	16QAM	26047	1RB#2	23.30
Band25	1.4MHz	16QAM	26047	1RB#5	23.19
Band25	1.4MHz	16QAM	26047	1RB#0	23.30
Band25	1.4MHz	16QAM	26047	3RB#0	23.70
Band25	1.4MHz	16QAM	26047	3RB#1	23.31
Band25	1.4MHz	16QAM	26047	3RB#3	23.63
Band25	1.4MHz	16QAM	26047	6RB#0	22.51
Band25	1.4MHz	16QAM	26365	1RB#5	23.00
Band25	1.4MHz	16QAM	26365	1RB#0	23.06
Band25	1.4MHz	16QAM	26365	1RB#2	23.27
Band25	1.4MHz	16QAM	26365	3RB#3	23.62
Band25	1.4MHz	16QAM	26365	3RB#1	23.25
Band25	1.4MHz	16QAM	26365	3RB#0	23.47
Band25	1.4MHz	16QAM	26365	6RB#0	22.46
Band25	1.4MHz	16QAM	26683	1RB#2	22.96
Band25	1.4MHz	16QAM	26683	1RB#5	22.72
Band25	1.4MHz	16QAM	26683	1RB#0	22.99
Band25	1.4MHz	16QAM	26683	3RB#3	23.41
Band25	1.4MHz	16QAM	26683	3RB#1	23.90
Band25	1.4MHz	16QAM	26683	3RB#0	23.47
Band25	1.4MHz	16QAM	26683	6RB#0	22.44
Band25	3MHz	QPSK	26055	1RB#14	24.49
Band25	3MHz	QPSK	26055	1RB#0	24.55
Band25	3MHz	QPSK	26055	1RB#8	24.41
Band25	3MHz	QPSK	26055	8RB#7	23.48
Band25	3MHz	QPSK	26055	8RB#4	23.44
Band25	3MHz	QPSK	26055	8RB#0	23.38
Band25	3MHz	QPSK	26055	15RB#0	23.41
Band25	3MHz	QPSK	26365	1RB#14	24.45
Band25	3MHz	QPSK	26365	1RB#8	24.32
Band25	3MHz	QPSK	26365	1RB#0	24.40
Band25	3MHz	QPSK	26365	8RB#7	23.45
Band25	3MHz	QPSK	26365	8RB#0	23.36



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Band25	3MHz	QPSK	26365	8RB#4	23.37
Band25	3MHz	QPSK	26365	15RB#0	23.44
Band25	3MHz	QPSK	26675	1RB#14	24.50
Band25	3MHz	QPSK	26675	1RB#8	24.34
Band25	3MHz	QPSK	26675	1RB#0	24.56
Band25	3MHz	QPSK	26675	8RB#4	23.45
Band25	3MHz	QPSK	26675	8RB#0	23.49
Band25	3MHz	QPSK	26675	8RB#7	23.38
Band25	3MHz	QPSK	26675	15RB#0	23.42
Band25	3MHz	16QAM	26055	1RB#8	22.84
Band25	3MHz	16QAM	26055	1RB#14	23.00
Band25	3MHz	16QAM	26055	1RB#0	22.95
Band25	3MHz	16QAM	26055	8RB#0	22.38
Band25	3MHz	16QAM	26055	8RB#7	22.36
Band25	3MHz	16QAM	26055	8RB#4	22.51
Band25	3MHz	16QAM	26055	15RB#0	22.55
Band25	3MHz	16QAM	26365	1RB#8	22.78
Band25	3MHz	16QAM	26365	1RB#14	23.09
Band25	3MHz	16QAM	26365	1RB#0	23.05
Band25	3MHz	16QAM	26365	8RB#4	22.21
Band25	3MHz	16QAM	26365	8RB#0	22.24
Band25	3MHz	16QAM	26365	8RB#7	22.29
Band25	3MHz	16QAM	26365	15RB#0	22.66
Band25	3MHz	16QAM	26675	1RB#14	22.93
Band25	3MHz	16QAM	26675	1RB#0	22.97
Band25	3MHz	16QAM	26675	1RB#8	23.15
Band25	3MHz	16QAM	26675	8RB#0	22.45
Band25	3MHz	16QAM	26675	8RB#7	22.35
Band25	3MHz	16QAM	26675	8RB#4	22.44
Band25	3MHz	16QAM	26675	15RB#0	22.59
Band25	5MHz	QPSK	26065	1RB#24	24.52
Band25	5MHz	QPSK	26065	1RB#12	24.40
Band25	5MHz	QPSK	26065	1RB#0	24.43
Band25	5MHz	QPSK	26065	12RB#6	23.41
Band25	5MHz	QPSK	26065	12RB#0	23.42
Band25	5MHz	QPSK	26065	12RB#13	23.57
Band25	5MHz	QPSK	26065	25RB#0	23.42
Band25	5MHz	QPSK	26365	1RB#24	24.38
Band25	5MHz	QPSK	26365	1RB#0	24.46
Band25	5MHz	QPSK	26365	1RB#12	24.27
Band25	5MHz	QPSK	26365	12RB#6	23.43
Band25	5MHz	QPSK	26365	12RB#0	23.38
Band25	5MHz	QPSK	26365	12RB#13	23.49
Band25	5MHz	QPSK	26365	25RB#0	23.37
Band25	5MHz	QPSK	26665	1RB#0	24.54
Band25	5MHz	QPSK	26665	1RB#12	24.34
Band25	5MHz	QPSK	26665	1RB#24	24.50
Band25	5MHz	QPSK	26665	12RB#	23.41
Band25	5MHz	QPSK	26665	12RB#6	23.55
Band25	5MHz	QPSK	26665	12RB#13	23.50
Band25	5MHz	QPSK	26665	25RB#0	23.42
Band25	5MHz	16QAM	26065	1RB#0	23.02
Band25	5MHz	16QAM	26065	1RB#12	23.38
Band25	5MHz	16QAM	26065	1RB#24	23.19
Band25	5MHz	16QAM	26065	12RB#13	22.56
Band25	5MHz	16QAM	26065	12RB#0	22.56



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Band25	5MHz	16QAM	26065	12RB#6	22.40
Band25	5MHz	16QAM	26065	25RB#0	22.58
Band25	5MHz	16QAM	26365	1RB#0	22.90
Band25	5MHz	16QAM	26365	1RB#12	23.41
Band25	5MHz	16QAM	26365	1RB#24	22.94
Band25	5MHz	16QAM	26365	12RB#0	22.34
Band25	5MHz	16QAM	26365	12RB#13	22.43
Band25	5MHz	16QAM	26365	12RB#6	22.37
Band25	5MHz	16QAM	26365	25RB#0	22.46
Band25	5MHz	16QAM	26665	1RB#0	23.12
Band25	5MHz	16QAM	26665	1RB#24	22.94
Band25	5MHz	16QAM	26665	1RB#12	23.25
Band25	5MHz	16QAM	26665	12RB#0	22.57
Band25	5MHz	16QAM	26665	12RB#6	22.49
Band25	5MHz	16QAM	26665	12RB#13	22.54
Band25	5MHz	16QAM	26665	25RB#0	22.41
Band25	10MHz	QPSK	26090	1RB#0	24.40
Band25	10MHz	QPSK	26090	1RB#24	24.77
Band25	10MHz	QPSK	26090	1RB#49	24.44
Band25	10MHz	QPSK	26090	25RB#12	23.52
Band25	10MHz	QPSK	26090	25RB#0	23.53
Band25	10MHz	QPSK	26090	25RB#25	23.49
Band25	10MHz	QPSK	26090	50RB#0	23.51
Band25	10MHz	QPSK	26365	1RB#49	24.32
Band25	10MHz	QPSK	26365	1RB#0	24.50
Band25	10MHz	QPSK	26365	1RB#24	24.73
Band25	10MHz	QPSK	26365	25RB#0	23.56
Band25	10MHz	QPSK	26365	25RB#12	23.58
Band25	10MHz	QPSK	26365	25RB#25	23.32
Band25	10MHz	QPSK	26365	50RB#0	23.45
Band25	10MHz	QPSK	26640	1RB#24	24.63
Band25	10MHz	QPSK	26640	1RB#49	24.28
Band25	10MHz	QPSK	26640	1RB#0	24.55
Band25	10MHz	QPSK	26640	25RB#0	23.55
Band25	10MHz	QPSK	26640	25RB#25	23.28
Band25	10MHz	QPSK	26640	25RB#12	23.33
Band25	10MHz	QPSK	26640	50RB#0	23.41
Band25	10MHz	16QAM	26090	1RB#24	23.27
Band25	10MHz	16QAM	26090	1RB#49	23.11
Band25	10MHz	16QAM	26090	1RB#0	23.09
Band25	10MHz	16QAM	26090	25RB#0	22.63
Band25	10MHz	16QAM	26090	25RB#12	22.68
Band25	10MHz	16QAM	26090	25RB#25	22.54
Band25	10MHz	16QAM	26090	50RB#0	22.79
Band25	10MHz	16QAM	26365	1RB#49	23.17
Band25	10MHz	16QAM	26365	1RB#0	23.15
Band25	10MHz	16QAM	26365	1RB#24	23.11
Band25	10MHz	16QAM	26365	25RB#25	22.50
Band25	10MHz	16QAM	26365	25RB#12	22.51
Band25	10MHz	16QAM	26365	25RB#0	22.55
Band25	10MHz	16QAM	26365	50RB#0	22.63
Band25	10MHz	16QAM	26640	1RB#24	23.26
Band25	10MHz	16QAM	26640	1RB#49	23.19
Band25	10MHz	16QAM	26640	1RB#0	23.22
Band25	10MHz	16QAM	26640	25RB#25	22.54
Band25	10MHz	16QAM	26640	25RB#12	22.49



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Band25	10MHz	16QAM	26640	25RB#0	22.59
Band25	10MHz	16QAM	26640	50RB#0	22.46
Band25	15MHz	QPSK	26115	1RB#74	24.39
Band25	15MHz	QPSK	26115	1RB#0	24.58
Band25	15MHz	QPSK	26115	1RB#38	24.49
Band25	15MHz	QPSK	26115	36RB#39	23.35
Band25	15MHz	QPSK	26115	36RB#18	23.37
Band25	15MHz	QPSK	26115	36RB#0	23.53
Band25	15MHz	QPSK	26115	75RB#0	23.50
Band25	15MHz	QPSK	26365	1RB#74	24.23
Band25	15MHz	QPSK	26365	1RB#38	24.21
Band25	15MHz	QPSK	26365	1RB#0	24.36
Band25	15MHz	QPSK	26365	36RB#0	23.35
Band25	15MHz	QPSK	26365	36RB#39	23.34
Band25	15MHz	QPSK	26365	36RB#18	23.45
Band25	15MHz	QPSK	26365	75RB#0	23.40
Band25	15MHz	QPSK	26615	1RB#74	24.16
Band25	15MHz	QPSK	26615	1RB#38	24.22
Band25	15MHz	QPSK	26615	1RB#0	24.41
Band25	15MHz	QPSK	26615	36RB#18	23.27
Band25	15MHz	QPSK	26615	36RB#0	23.45
Band25	15MHz	QPSK	26615	36RB#39	23.23
Band25	15MHz	QPSK	26615	75RB#0	23.47
Band25	15MHz	16QAM	26115	1RB#0	23.17
Band25	15MHz	16QAM	26115	1RB#74	22.98
Band25	15MHz	16QAM	26115	1RB#38	23.08
Band25	15MHz	16QAM	26115	36RB#0	22.52
Band25	15MHz	16QAM	26115	36RB#39	22.53
Band25	15MHz	16QAM	26115	36RB#18	22.58
Band25	15MHz	16QAM	26115	75RB#0	22.49
Band25	15MHz	16QAM	26365	1RB#38	22.92
Band25	15MHz	16QAM	26365	1RB#74	22.90
Band25	15MHz	16QAM	26365	1RB#0	23.05
Band25	15MHz	16QAM	26365	36RB#18	22.43
Band25	15MHz	16QAM	26365	36RB#0	22.35
Band25	15MHz	16QAM	26365	36RB#39	22.45
Band25	15MHz	16QAM	26365	75RB#0	22.48
Band25	15MHz	16QAM	26615	1RB#74	23.02
Band25	15MHz	16QAM	26615	1RB#0	23.06
Band25	15MHz	16QAM	26615	1RB#38	23.15
Band25	15MHz	16QAM	26615	36RB#0	22.36
Band25	15MHz	16QAM	26615	36RB#39	22.29
Band25	15MHz	16QAM	26615	36RB#18	22.30
Band25	15MHz	16QAM	26615	75RB#0	22.48
Band25	20MHz	QPSK	26140	1RB#99	24.22
Band25	20MHz	QPSK	26140	1RB#49	24.53
Band25	20MHz	QPSK	26140	1RB#0	24.54
Band25	20MHz	QPSK	26140	50RB#25	23.46
Band25	20MHz	QPSK	26140	50RB#0	23.49
Band25	20MHz	QPSK	26140	50RB#50	23.44
Band25	20MHz	QPSK	26140	100RB#0	23.52
Band25	20MHz	QPSK	26365	1RB#99	24.25
Band25	20MHz	QPSK	26365	1RB#0	24.44
Band25	20MHz	QPSK	26365	1RB#49	24.50
Band25	20MHz	QPSK	26365	50RB#25	23.47
Band25	20MHz	QPSK	26365	50RB#0	23.45



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Band25	20MHz	QPSK	26365	50RB#50	23.31
Band25	20MHz	QPSK	26365	100RB#0	23.40
Band25	20MHz	QPSK	26590	1RB#0	24.38
Band25	20MHz	QPSK	26590	1RB#49	24.59
Band25	20MHz	QPSK	26590	1RB#99	24.09
Band25	20MHz	QPSK	26590	50RB#0	23.58
Band25	20MHz	QPSK	26590	50RB#25	23.45
Band25	20MHz	QPSK	26590	50RB#50	23.30
Band25	20MHz	QPSK	26590	100RB#0	23.47
Band25	20MHz	16QAM	26140	1RB#0	23.06
Band25	20MHz	16QAM	26140	1RB#49	23.09
Band25	20MHz	16QAM	26140	1RB#99	23.04
Band25	20MHz	16QAM	26140	50RB#50	22.63
Band25	20MHz	16QAM	26140	50RB#0	22.58
Band25	20MHz	16QAM	26140	50RB#25	22.64
Band25	20MHz	16QAM	26140	100RB#0	22.60
Band25	20MHz	16QAM	26365	1RB#0	22.88
Band25	20MHz	16QAM	26365	1RB#49	22.94
Band25	20MHz	16QAM	26365	1RB#99	22.78
Band25	20MHz	16QAM	26365	50RB#0	22.36
Band25	20MHz	16QAM	26365	50RB#50	22.50
Band25	20MHz	16QAM	26365	50RB#25	22.43
Band25	20MHz	16QAM	26365	100RB#0	22.39
Band25	20MHz	16QAM	26590	1RB#0	22.99
Band25	20MHz	16QAM	26590	1RB#99	23.08
Band25	20MHz	16QAM	26590	1RB#49	23.10
Band25	20MHz	16QAM	26590	50RB#0	22.60
Band25	20MHz	16QAM	26590	50RB#25	22.46
Band25	20MHz	16QAM	26590	50RB#50	22.40
Band25	20MHz	16QAM	26590	100RB#0	22.55



**LTE Band 26(814-824)**

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)
Band26	1.4MHz	QPSK	26697	1RB#0	24.76
Band26	1.4MHz	QPSK	26697	1RB#2	24.74
Band26	1.4MHz	QPSK	26697	1RB#5	24.77
Band26	1.4MHz	QPSK	26697	3RB#1	24.82
Band26	1.4MHz	QPSK	26697	3RB#0	24.74
Band26	1.4MHz	QPSK	26697	3RB#3	24.85
Band26	1.4MHz	QPSK	26697	6RB#0	23.67
Band26	1.4MHz	QPSK	26740	1RB#5	24.67
Band26	1.4MHz	QPSK	26740	1RB#0	24.65
Band26	1.4MHz	QPSK	26740	1RB#2	24.62
Band26	1.4MHz	QPSK	26740	3RB#0	24.85
Band26	1.4MHz	QPSK	26740	3RB#1	24.91
Band26	1.4MHz	QPSK	26740	3RB#3	24.87
Band26	1.4MHz	QPSK	26740	6RB#0	23.72
Band26	1.4MHz	QPSK	26783	1RB#0	24.81
Band26	1.4MHz	QPSK	26783	1RB#2	24.84
Band26	1.4MHz	QPSK	26783	1RB#5	24.78
Band26	1.4MHz	QPSK	26783	3RB#1	25.02
Band26	1.4MHz	QPSK	26783	3RB#0	24.90
Band26	1.4MHz	QPSK	26783	3RB#3	24.81
Band26	1.4MHz	QPSK	26783	6RB#0	23.66
Band26	1.4MHz	16QAM	26697	1RB#0	23.11
Band26	1.4MHz	16QAM	26697	1RB#2	23.22
Band26	1.4MHz	16QAM	26697	1RB#5	23.11
Band26	1.4MHz	16QAM	26697	3RB#0	23.76
Band26	1.4MHz	16QAM	26697	3RB#1	24.24
Band26	1.4MHz	16QAM	26697	3RB#3	24.30
Band26	1.4MHz	16QAM	26697	6RB#0	22.82
Band26	1.4MHz	16QAM	26740	1RB#2	23.60
Band26	1.4MHz	16QAM	26740	1RB#5	23.31
Band26	1.4MHz	16QAM	26740	1RB#0	23.48
Band26	1.4MHz	16QAM	26740	3RB#3	23.72
Band26	1.4MHz	16QAM	26740	3RB#1	23.90
Band26	1.4MHz	16QAM	26740	3RB#0	23.86
Band26	1.4MHz	16QAM	26740	6RB#0	22.58
Band26	1.4MHz	16QAM	26783	1RB#2	23.55
Band26	1.4MHz	16QAM	26783	1RB#5	23.23
Band26	1.4MHz	16QAM	26783	1RB#0	23.15
Band26	1.4MHz	16QAM	26783	3RB#0	23.99
Band26	1.4MHz	16QAM	26783	3RB#3	23.73
Band26	1.4MHz	16QAM	26783	3RB#1	23.87
Band26	1.4MHz	16QAM	26783	6RB#0	22.70
Band26	3MHz	QPSK	26705	1RB#0	24.67
Band26	3MHz	QPSK	26705	1RB#8	24.88
Band26	3MHz	QPSK	26705	1RB#14	24.75
Band26	3MHz	QPSK	26705	8RB#7	23.89
Band26	3MHz	QPSK	26705	8RB#0	23.75
Band26	3MHz	QPSK	26705	8RB#4	23.86
Band26	3MHz	QPSK	26705	15RB#0	23.80
Band26	3MHz	QPSK	26740	1RB#8	25.03
Band26	3MHz	QPSK	26740	1RB#14	24.56
Band26	3MHz	QPSK	26740	1RB#0	24.74
Band26	3MHz	QPSK	26740	8RB#0	23.70
Band26	3MHz	QPSK	26740	8RB#4	23.86



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Band26	3MHz	QPSK	26740	8RB#7	23.67
Band26	3MHz	QPSK	26740	15RB#0	23.79
Band26	3MHz	QPSK	26775	1RB#14	24.72
Band26	3MHz	QPSK	26775	1RB#0	24.88
Band26	3MHz	QPSK	26775	1RB#8	24.57
Band26	3MHz	QPSK	26775	8RB#4	23.95
Band26	3MHz	QPSK	26775	8RB#7	23.83
Band26	3MHz	QPSK	26775	8RB#0	23.84
Band26	3MHz	QPSK	26775	15RB#0	23.81
Band26	3MHz	16QAM	26705	1RB#0	23.32
Band26	3MHz	16QAM	26705	1RB#8	23.27
Band26	3MHz	16QAM	26705	1RB#14	23.24
Band26	3MHz	16QAM	26705	8RB#0	22.76
Band26	3MHz	16QAM	26705	8RB#7	22.95
Band26	3MHz	16QAM	26705	8RB#4	22.72
Band26	3MHz	16QAM	26705	15RB#0	22.90
Band26	3MHz	16QAM	26740	1RB#0	23.29
Band26	3MHz	16QAM	26740	1RB#8	23.42
Band26	3MHz	16QAM	26740	1RB#14	23.31
Band26	3MHz	16QAM	26740	8RB#4	22.71
Band26	3MHz	16QAM	26740	8RB#7	22.82
Band26	3MHz	16QAM	26740	8RB#0	22.78
Band26	3MHz	16QAM	26740	15RB#0	22.99
Band26	3MHz	16QAM	26775	1RB#0	23.38
Band26	3MHz	16QAM	26775	1RB#8	23.31
Band26	3MHz	16QAM	26775	1RB#14	23.20
Band26	3MHz	16QAM	26775	8RB#7	22.91
Band26	3MHz	16QAM	26775	8RB#0	22.84
Band26	3MHz	16QAM	26775	8RB#4	22.92
Band26	3MHz	16QAM	26775	15RB#0	23.07
Band26	5MHz	QPSK	26715	1RB#24	24.60
Band26	5MHz	QPSK	26715	1RB#12	24.84
Band26	5MHz	QPSK	26715	1RB#0	24.62
Band26	5MHz	QPSK	26715	12RB#0	23.69
Band26	5MHz	QPSK	26715	12RB#6	23.85
Band26	5MHz	QPSK	26715	12RB#13	23.78
Band26	5MHz	QPSK	26715	25RB#0	23.76
Band26	5MHz	QPSK	26740	1RB#0	24.74
Band26	5MHz	QPSK	26740	1RB#24	24.52
Band26	5MHz	QPSK	26740	1RB#12	24.99
Band26	5MHz	QPSK	26740	12RB#13	23.60
Band26	5MHz	QPSK	26740	12RB#6	23.78
Band26	5MHz	QPSK	26740	12RB#0	23.69
Band26	5MHz	QPSK	26740	25RB#0	23.62
Band26	5MHz	QPSK	26765	1RB#24	24.52
Band26	5MHz	QPSK	26765	1RB#12	24.82
Band26	5MHz	QPSK	26765	1RB#0	24.54
Band26	5MHz	QPSK	26765	12RB#13	23.65
Band26	5MHz	QPSK	26765	12RB#6	23.76
Band26	5MHz	QPSK	26765	12RB#0	23.75
Band26	5MHz	QPSK	26765	25RB#0	23.67
Band26	5MHz	16QAM	26715	1RB#12	23.86
Band26	5MHz	16QAM	26715	1RB#24	23.34
Band26	5MHz	16QAM	26715	1RB#0	23.35
Band26	5MHz	16QAM	26715	12RB#6	22.90
Band26	5MHz	16QAM	26715	12RB#13	22.76



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Band26	5MHz	16QAM	26715	12RB#0	22.60
Band26	5MHz	16QAM	26715	25RB#0	22.76
Band26	5MHz	16QAM	26740	1RB#12	23.78
Band26	5MHz	16QAM	26740	1RB#24	23.29
Band26	5MHz	16QAM	26740	1RB#D	23.26
Band26	5MHz	16QAM	26740	12RB#13	22.65
Band26	5MHz	16QAM	26740	12RB#6	22.66
Band26	5MHz	16QAM	26740	12RB#0	22.87
Band26	5MHz	16QAM	26740	25RB#0	22.75
Band26	5MHz	16QAM	26765	1RB#12	23.82
Band26	5MHz	16QAM	26765	1RB#24	23.09
Band26	5MHz	16QAM	26765	1RB#0	23.30
Band26	5MHz	16QAM	26765	12RB#0	22.57
Band26	5MHz	16QAM	26765	12RB#13	22.77
Band26	5MHz	16QAM	26765	12RB#6	22.71
Band26	5MHz	16QAM	26765	25RB#0	22.78
Band26	10MHz	QPSK	26740	1RB#49	24.40
Band26	10MHz	QPSK	26740	1RB#0	24.62
Band26	10MHz	QPSK	26740	1RB#24	25.30
Band26	10MHz	QPSK	26740	25RB#25	23.54
Band26	10MHz	QPSK	26740	25RB#12	23.89
Band26	10MHz	QPSK	26740	25RB#0	23.83
Band26	10MHz	QPSK	26740	50RB#0	23.67
Band26	10MHz	16QAM	26740	1RB#24	23.53
Band26	10MHz	16QAM	26740	1RB#0	23.50
Band26	10MHz	16QAM	26740	1RB#49	23.46
Band26	10MHz	16QAM	26740	25RB#0	22.87
Band26	10MHz	16QAM	26740	25RB#12	22.93
Band26	10MHz	16QAM	26740	25RB#25	22.65
Band26	10MHz	16QAM	26740	50RB#0	22.78





LTE Band 26(824-849)

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)
Band26	1.4MHz	QPSK	26797	1RB#0	24.67
Band26	1.4MHz	QPSK	26797	1RB#2	24.80
Band26	1.4MHz	QPSK	26797	1RB#5	24.74
Band26	1.4MHz	QPSK	26797	3RB#0	24.83
Band26	1.4MHz	QPSK	26797	3RB#1	24.82
Band26	1.4MHz	QPSK	26797	3RB#3	24.88
Band26	1.4MHz	QPSK	26797	6RB#0	23.80
Band26	1.4MHz	QPSK	26915	1RB#2	24.79
Band26	1.4MHz	QPSK	26915	1RB#5	24.74
Band26	1.4MHz	QPSK	26915	1RB#0	24.70
Band26	1.4MHz	QPSK	26915	3RB#0	24.77
Band26	1.4MHz	QPSK	26915	3RB#1	24.88
Band26	1.4MHz	QPSK	26915	3RB#3	24.91
Band26	1.4MHz	QPSK	26915	6RB#0	23.88
Band26	1.4MHz	QPSK	27033	1RB#0	24.68
Band26	1.4MHz	QPSK	27033	1RB#5	24.32
Band26	1.4MHz	QPSK	27033	1RB#2	24.52
Band26	1.4MHz	QPSK	27033	3RB#0	24.72
Band26	1.4MHz	QPSK	27033	3RB#1	24.57
Band26	1.4MHz	QPSK	27033	3RB#3	24.51
Band26	1.4MHz	QPSK	27033	6RB#0	23.49
Band26	1.4MHz	16QAM	26797	1RB#0	23.29
Band26	1.4MHz	16QAM	26797	1RB#5	23.26
Band26	1.4MHz	16QAM	26797	1RB#2	23.48
Band26	1.4MHz	16QAM	26797	3RB#1	23.89
Band26	1.4MHz	16QAM	26797	3RB#0	23.82
Band26	1.4MHz	16QAM	26797	3RB#3	23.87
Band26	1.4MHz	16QAM	26797	6RB#0	23.10
Band26	1.4MHz	16QAM	26915	1RB#2	23.29
Band26	1.4MHz	16QAM	26915	1RB#0	23.46
Band26	1.4MHz	16QAM	26915	1RB#5	23.26
Band26	1.4MHz	16QAM	26915	3RB#3	24.07
Band26	1.4MHz	16QAM	26915	3RB#0	23.97
Band26	1.4MHz	16QAM	26915	3RB#1	24.08
Band26	1.4MHz	16QAM	26915	6RB#0	22.75
Band26	1.4MHz	16QAM	27033	1RB#5	23.12
Band26	1.4MHz	16QAM	27033	1RB#2	23.22
Band26	1.4MHz	16QAM	27033	1RB#0	23.30
Band26	1.4MHz	16QAM	27033	3RB#1	23.67
Band26	1.4MHz	16QAM	27033	3RB#0	23.65
Band26	1.4MHz	16QAM	27033	3RB#3	23.57
Band26	1.4MHz	16QAM	27033	6RB#0	22.57
Band26	3MHz	QPSK	26805	1RB#8	24.63
Band26	3MHz	QPSK	26805	1RB#14	24.67
Band26	3MHz	QPSK	26805	1RB#0	24.67
Band26	3MHz	QPSK	26805	8RB#4	23.65
Band26	3MHz	QPSK	26805	8RB#0	23.73
Band26	3MHz	QPSK	26805	8RB#7	23.59
Band26	3MHz	QPSK	26805	15RB#0	23.71
Band26	3MHz	QPSK	26915	1RB#14	24.64
Band26	3MHz	QPSK	26915	1RB#8	24.80
Band26	3MHz	QPSK	26915	1RB#0	24.65
Band26	3MHz	QPSK	26915	8RB#4	23.75
Band26	3MHz	QPSK	26915	8RB#7	23.69



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Band26	3MHz	QPSK	26915	8RB#0	23.77
Band26	3MHz	QPSK	26915	15RB#0	23.82
Band26	3MHz	QPSK	27025	1RB#8	24.38
Band26	3MHz	QPSK	27025	1RB#14	24.15
Band26	3MHz	QPSK	27025	1RB#0	24.76
Band26	3MHz	QPSK	27025	8RB#7	23.35
Band26	3MHz	QPSK	27025	8RB#4	23.36
Band26	3MHz	QPSK	27025	8RB#0	23.69
Band26	3MHz	QPSK	27025	15RB#0	23.48
Band26	3MHz	16QAM	26805	1RB#14	23.35
Band26	3MHz	16QAM	26805	1RB#8	23.30
Band26	3MHz	16QAM	26805	1RB#0	23.09
Band26	3MHz	16QAM	26805	8RB#4	22.63
Band26	3MHz	16QAM	26805	8RB#0	22.61
Band26	3MHz	16QAM	26805	8RB#7	22.59
Band26	3MHz	16QAM	26805	15RB#0	22.82
Band26	3MHz	16QAM	26915	1RB#8	23.47
Band26	3MHz	16QAM	26915	1RB#14	23.42
Band26	3MHz	16QAM	26915	1RB#0	23.19
Band26	3MHz	16QAM	26915	8RB#7	22.80
Band26	3MHz	16QAM	26915	8RB#4	22.66
Band26	3MHz	16QAM	26915	8RB#0	22.74
Band26	3MHz	16QAM	26915	15RB#0	22.84
Band26	3MHz	16QAM	27025	1RB#0	23.23
Band26	3MHz	16QAM	27025	1RB#8	23.15
Band26	3MHz	16QAM	27025	1RB#14	23.10
Band26	3MHz	16QAM	27025	8RB#7	22.43
Band26	3MHz	16QAM	27025	8RB#4	22.35
Band26	3MHz	16QAM	27025	8RB#0	22.79
Band26	3MHz	16QAM	27025	15RB#0	22.66
Band26	5MHz	QPSK	26815	1RB#0	24.50
Band26	5MHz	QPSK	26815	1RB#24	24.47
Band26	5MHz	QPSK	26815	1RB#12	24.66
Band26	5MHz	QPSK	26815	12RB#0	23.63
Band26	5MHz	QPSK	26815	12RB#13	23.62
Band26	5MHz	QPSK	26815	12RB#6	23.57
Band26	5MHz	QPSK	26815	25RB#0	23.68
Band26	5MHz	QPSK	26915	1RB#24	24.45
Band26	5MHz	QPSK	26915	1RB#0	24.51
Band26	5MHz	QPSK	26915	1RB#12	25.01
Band26	5MHz	QPSK	26915	12RB#0	23.71
Band26	5MHz	QPSK	26915	12RB#13	23.72
Band26	5MHz	QPSK	26915	12RB#6	23.85
Band26	5MHz	QPSK	26915	25RB#0	23.75
Band26	5MHz	QPSK	27015	1RB#24	24.15
Band26	5MHz	QPSK	27015	1RB#12	24.52
Band26	5MHz	QPSK	27015	1RB#0	24.57
Band26	5MHz	QPSK	27015	12RB#6	23.55
Band26	5MHz	QPSK	27015	12RB#0	23.81
Band26	5MHz	QPSK	27015	12RB#13	23.29
Band26	5MHz	QPSK	27015	25RB#0	23.66
Band26	5MHz	16QAM	26815	1RB#24	23.27
Band26	5MHz	16QAM	26815	1RB#0	23.14
Band26	5MHz	16QAM	26815	1RB#12	23.59
Band26	5MHz	16QAM	26815	12RB#6	22.74
Band26	5MHz	16QAM	26815	12RB#0	22.56



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Band26	5MHz	16QAM	26815	25RB#0	22.79
Band26	5MHz	16QAM	26915	1RB#12	23.54
Band26	5MHz	16QAM	26915	1RB#24	23.26
Band26	5MHz	16QAM	26915	1RB#0	23.28
Band26	5MHz	16QAM	26915	12RB#6	22.99
Band26	5MHz	16QAM	26915	12RB#13	22.82
Band26	5MHz	16QAM	26915	12RB#0	22.89
Band26	5MHz	16QAM	26915	25RB#0	22.90
Band26	5MHz	16QAM	27015	1RB#0	23.30
Band26	5MHz	16QAM	27015	1RB#12	23.75
Band26	5MHz	16QAM	27015	1RB#24	23.00
Band26	5MHz	16QAM	27015	12RB#0	22.56
Band26	5MHz	16QAM	27015	12RB#6	22.68
Band26	5MHz	16QAM	27015	12RB#13	22.67
Band26	5MHz	16QAM	27015	25RB#0	22.57
Band26	10MHz	QPSK	26840	1RB#24	24.94
Band26	10MHz	QPSK	26840	1RB#49	24.39
Band26	10MHz	QPSK	26840	1RB#0	24.61
Band26	10MHz	QPSK	26840	25RB#25	23.56
Band26	10MHz	QPSK	26840	25RB#12	23.71
Band26	10MHz	QPSK	26840	25RB#0	23.84
Band26	10MHz	QPSK	26840	50RB#0	23.60
Band26	10MHz	QPSK	26915	1RB#0	24.66
Band26	10MHz	QPSK	26915	1RB#24	25.00
Band26	10MHz	QPSK	26915	1RB#49	24.45
Band26	10MHz	QPSK	26915	25RB#0	23.80
Band26	10MHz	QPSK	26915	25RB#25	23.58
Band26	10MHz	QPSK	26915	25RB#12	23.79
Band26	10MHz	QPSK	26915	50RB#0	23.71
Band26	10MHz	QPSK	26990	1RB#49	23.97
Band26	10MHz	QPSK	26990	1RB#24	24.92
Band26	10MHz	QPSK	26990	1RB#0	24.57
Band26	10MHz	QPSK	26990	25RB#25	23.42
Band26	10MHz	QPSK	26990	25RB#0	23.87
Band26	10MHz	QPSK	26990	25RB#12	23.62
Band26	10MHz	QPSK	26990	50RB#0	23.60
Band26	10MHz	16QAM	26840	1RB#0	23.30
Band26	10MHz	16QAM	26840	1RB#24	23.25
Band26	10MHz	16QAM	26840	1RB#49	23.34
Band26	10MHz	16QAM	26840	25RB#0	22.77
Band26	10MHz	16QAM	26840	25RB#25	22.75
Band26	10MHz	16QAM	26840	25RB#12	22.60
Band26	10MHz	16QAM	26840	50RB#0	22.72
Band26	10MHz	16QAM	26915	1RB#24	23.49
Band26	10MHz	16QAM	26915	1RB#0	23.50
Band26	10MHz	16QAM	26915	1RB#49	23.37
Band26	10MHz	16QAM	26915	25RB#0	22.75
Band26	10MHz	16QAM	26915	25RB#12	22.83
Band26	10MHz	16QAM	26915	25RB#25	22.82
Band26	10MHz	16QAM	26915	50RB#0	22.75
Band26	10MHz	16QAM	26990	1RB#24	22.97
Band26	10MHz	16QAM	26990	1RB#0	23.29
Band26	10MHz	16QAM	26990	1RB#49	23.16
Band26	10MHz	16QAM	26990	25RB#12	22.79
Band26	10MHz	16QAM	26990	25RB#0	22.62



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Band26	10MHz	16QAM	26990	25RB#25	22.65
Band26	10MHz	16QAM	26990	50RB#0	22.75
Band26	15MHz	QPSK	26865	1RB#74	24.17
Band26	15MHz	QPSK	26865	1RB#0	24.61
Band26	15MHz	QPSK	26865	1RB#38	24.75
Band26	15MHz	QPSK	26865	36RB#0	23.69
Band26	15MHz	QPSK	26865	36RB#18	23.68
Band26	15MHz	QPSK	26865	36RB#39	23.60
Band26	15MHz	QPSK	26865	75RB#0	23.52
Band26	15MHz	QPSK	26915	1RB#74	24.22
Band26	15MHz	QPSK	26915	1RB#38	24.94
Band26	15MHz	QPSK	26915	1RB#0	24.48
Band26	15MHz	QPSK	26915	36RB#39	23.51
Band26	15MHz	QPSK	26915	36RB#0	23.60
Band26	15MHz	QPSK	26915	36RB#18	23.69
Band26	15MHz	QPSK	26915	75RB#0	23.62
Band26	15MHz	QPSK	26615	1RB#74	23.46
Band26	15MHz	QPSK	26615	1RB#38	24.73
Band26	15MHz	QPSK	26615	1RB#0	24.44
Band26	15MHz	QPSK	26615	36RB#18	23.60
Band26	15MHz	QPSK	26615	36RB#39	23.49
Band26	15MHz	QPSK	26615	36RB#0	23.85
Band26	15MHz	QPSK	26615	75RB#0	23.48
Band26	15MHz	16QAM	26865	1RB#0	23.30
Band26	15MHz	16QAM	26865	1RB#74	23.19
Band26	15MHz	16QAM	26865	1RB#38	23.29
Band26	15MHz	16QAM	26865	36RB#0	22.71
Band26	15MHz	16QAM	26865	36RB#18	22.63
Band26	15MHz	16QAM	26865	36RB#39	22.68
Band26	15MHz	16QAM	26865	75RB#0	22.77
Band26	15MHz	16QAM	26915	1RB#0	22.92
Band26	15MHz	16QAM	26915	1RB#38	23.09
Band26	15MHz	16QAM	26915	1RB#74	23.14
Band26	15MHz	16QAM	26915	36RB#18	22.62
Band26	15MHz	16QAM	26915	36RB#0	22.59
Band26	15MHz	16QAM	26915	36RB#39	22.64
Band26	15MHz	16QAM	26915	75RB#0	22.61
Band26	15MHz	16QAM	26615	1RB#0	22.99
Band26	15MHz	16QAM	26615	1RB#38	23.00
Band26	15MHz	16QAM	26615	1RB#74	22.86
Band26	15MHz	16QAM	26615	36RB#0	22.62
Band26	15MHz	16QAM	26615	36RB#18	22.76
Band26	15MHz	16QAM	26615	36RB#39	22.63
Band26	15MHz	16QAM	26615	75RB#0	22.64



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**LTE Band38**

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)
Band38	5MHz	QPSK	37775	1RB#0	24.16
Band38	5MHz	QPSK	37775	1RB#12	24.30
Band38	5MHz	QPSK	37775	1RB#24	24.60
Band38	5MHz	QPSK	37775	12RB#0	23.32
Band38	5MHz	QPSK	37775	12RB#6	23.21
Band38	5MHz	QPSK	37775	12RB#13	23.24
Band38	5MHz	QPSK	37775	25RB#0	23.24
Band38	5MHz	QPSK	38000	1RB#0	24.07
Band38	5MHz	QPSK	38000	1RB#24	24.41
Band38	5MHz	QPSK	38000	1RB#12	24.25
Band38	5MHz	QPSK	38000	12RB#0	23.24
Band38	5MHz	QPSK	38000	12RB#6	23.21
Band38	5MHz	QPSK	38000	12RB#13	23.22
Band38	5MHz	QPSK	38000	25RB#0	23.15
Band38	5MHz	QPSK	38225	1RB#24	24.09
Band38	5MHz	QPSK	38225	1RB#0	24.29
Band38	5MHz	QPSK	38225	1RB#12	24.61
Band38	5MHz	QPSK	38225	12RB#0	23.23
Band38	5MHz	QPSK	38225	12RB#6	23.28
Band38	5MHz	QPSK	38225	12RB#13	23.25
Band38	5MHz	QPSK	38225	25RB#0	23.27
Band38	5MHz	16QAM	37775	1RB#0	22.72
Band38	5MHz	16QAM	37775	1RB#12	22.82
Band38	5MHz	16QAM	37775	1RB#24	22.60
Band38	5MHz	16QAM	37775	12RB#6	22.22
Band38	5MHz	16QAM	37775	12RB#0	22.17
Band38	5MHz	16QAM	37775	12RB#13	22.21
Band38	5MHz	16QAM	37775	25RB#0	22.36
Band38	5MHz	16QAM	38000	1RB#0	22.68
Band38	5MHz	16QAM	38000	1RB#12	22.91
Band38	5MHz	16QAM	38000	1RB#24	22.62
Band38	5MHz	16QAM	38000	12RB#13	22.13
Band38	5MHz	16QAM	38000	12RB#0	22.14
Band38	5MHz	16QAM	38000	12RB#6	22.15
Band38	5MHz	16QAM	38000	25RB#0	22.23
Band38	5MHz	16QAM	38225	1RB#12	23.04
Band38	5MHz	16QAM	38225	1RB#0	22.70
Band38	5MHz	16QAM	38225	1RB#24	22.71
Band38	5MHz	16QAM	38225	12RB#0	22.26
Band38	5MHz	16QAM	38225	12RB#6	22.05
Band38	5MHz	16QAM	38225	12RB#13	22.20
Band38	5MHz	16QAM	38225	25RB#0	22.27
Band38	10MHz	QPSK	37800	1RB#24	24.03
Band38	10MHz	QPSK	37800	1RB#49	24.22
Band38	10MHz	QPSK	37800	1RB#0	24.62
Band38	10MHz	QPSK	37800	25RB#0	23.03
Band38	10MHz	QPSK	37800	25RB#12	23.34
Band38	10MHz	QPSK	37800	25RB#25	23.24
Band38	10MHz	QPSK	37800	50RB#0	23.18
Band38	10MHz	QPSK	38000	1RB#0	24.02
Band38	10MHz	QPSK	38000	1RB#49	24.25
Band38	10MHz	QPSK	38000	1RB#24	24.52
Band38	10MHz	QPSK	38000	25RB#25	23.24
Band38	10MHz	QPSK	38000	25RB#0	23.25



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Band38	10MHz	QPSK	38000	25RB#12	23.16
Band38	10MHz	QPSK	38000	50RB#0	23.20
Band38	10MHz	QPSK	38200	1RB#24	24.12
Band38	10MHz	QPSK	38200	1RB#0	24.55
Band38	10MHz	QPSK	38200	1RB#49	24.23
Band38	10MHz	QPSK	38200	25RB#0	23.34
Band38	10MHz	QPSK	38200	25RB#25	23.21
Band38	10MHz	QPSK	38200	25RB#12	23.34
Band38	10MHz	QPSK	38200	50RB#0	23.36
Band38	10MHz	16QAM	37800	1RB#49	22.75
Band38	10MHz	16QAM	37800	1RB#0	22.91
Band38	10MHz	16QAM	37800	1RB#24	22.87
Band38	10MHz	16QAM	37800	25RB#25	22.32
Band38	10MHz	16QAM	37800	25RB#12	22.22
Band38	10MHz	16QAM	37800	25RB#0	22.18
Band38	10MHz	16QAM	37800	50RB#0	22.14
Band38	10MHz	16QAM	38000	1RB#49	22.61
Band38	10MHz	16QAM	38000	1RB#0	22.86
Band38	10MHz	16QAM	38000	1RB#24	22.90
Band38	10MHz	16QAM	38000	25RB#25	22.24
Band38	10MHz	16QAM	38000	25RB#0	22.25
Band38	10MHz	16QAM	38000	25RB#12	22.31
Band38	10MHz	16QAM	38000	50RB#0	22.28
Band38	10MHz	16QAM	38200	1RB#24	22.67
Band38	10MHz	16QAM	38200	1RB#0	22.75
Band38	10MHz	16QAM	38200	1RB#49	22.91
Band38	10MHz	16QAM	38200	25RB#0	22.32
Band38	10MHz	16QAM	38200	25RB#12	22.28
Band38	10MHz	16QAM	38200	25RB#25	22.30
Band38	10MHz	16QAM	38200	50RB#0	22.25
Band38	15MHz	QPSK	37825	1RB#0	24.04
Band38	15MHz	QPSK	37825	1RB#38	24.36
Band38	15MHz	QPSK	37825	1RB#74	24.02
Band38	15MHz	QPSK	37825	36RB#0	23.25
Band38	15MHz	QPSK	37825	36RB#18	23.04
Band38	15MHz	QPSK	37825	36RB#39	23.23
Band38	15MHz	QPSK	37825	75RB#0	23.19
Band38	15MHz	QPSK	38000	1RB#0	24.02
Band38	15MHz	QPSK	38000	1RB#74	24.38
Band38	15MHz	QPSK	38000	1RB#38	24.11
Band38	15MHz	QPSK	38000	36RB#0	23.27
Band38	15MHz	QPSK	38000	36RB#18	23.18
Band38	15MHz	QPSK	38000	36RB#39	23.22
Band38	15MHz	QPSK	38000	75RB#0	23.27
Band38	15MHz	QPSK	38175	1RB#74	24.30
Band38	15MHz	QPSK	38175	1RB#0	24.20
Band38	15MHz	QPSK	38175	1RB#38	24.14
Band38	15MHz	QPSK	38175	36RB#0	23.38
Band38	15MHz	QPSK	38175	36RB#18	23.33
Band38	15MHz	QPSK	38175	36RB#39	23.27
Band38	15MHz	QPSK	38175	75RB#0	23.37
Band38	15MHz	16QAM	37825	1RB#0	22.74
Band38	15MHz	16QAM	37825	1RB#38	22.88
Band38	15MHz	16QAM	37825	1RB#74	22.54
Band38	15MHz	16QAM	37825	36RB#18	22.24
Band38	15MHz	16QAM	37825	36RB#0	22.09



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Band38	15MHz	16QAM	37825	36RB#39	22.25
Band38	15MHz	16QAM	37825	75RB#0	22.13
Band38	15MHz	16QAM	38000	1RB#0	22.52
Band38	15MHz	16QAM	38000	1RB#38	22.60
Band38	15MHz	16QAM	38000	1RB#74	22.63
Band38	15MHz	16QAM	38000	36RB#39	22.14
Band38	15MHz	16QAM	38000	36RB#0	22.26
Band38	15MHz	16QAM	38000	36RB#18	22.17
Band38	15MHz	16QAM	38000	75RB#0	22.33
Band38	15MHz	16QAM	38175	1RB#38	22.69
Band38	15MHz	16QAM	38175	1RB#0	22.66
Band38	15MHz	16QAM	38175	1RB#74	22.72
Band38	15MHz	16QAM	38175	36RB#0	22.26
Band38	15MHz	16QAM	38175	36RB#18	22.20
Band38	15MHz	16QAM	38175	36RB#39	22.25
Band38	15MHz	16QAM	38175	75RB#0	22.24
Band38	20MHz	QPSK	37850	1RB#99	24.12
Band38	20MHz	QPSK	37850	1RB#49	24.54
Band38	20MHz	QPSK	37850	1RB#0	23.95
Band38	20MHz	QPSK	37850	50RB#0	23.25
Band38	20MHz	QPSK	37850	50RB#25	23.11
Band38	20MHz	QPSK	37850	50RB#50	23.24
Band38	20MHz	QPSK	37850	100RB#0	23.14
Band38	20MHz	QPSK	38000	1RB#0	24.04
Band38	20MHz	QPSK	38000	1RB#99	23.86
Band38	20MHz	QPSK	38000	1RB#49	24.58
Band38	20MHz	QPSK	38000	50RB#50	23.25
Band38	20MHz	QPSK	38000	50RB#0	23.16
Band38	20MHz	QPSK	38000	50RB#25	23.26
Band38	20MHz	QPSK	38000	100RB#0	23.26
Band38	20MHz	QPSK	38150	1RB#49	24.56
Band38	20MHz	QPSK	38150	1RB#0	23.94
Band38	20MHz	QPSK	38150	1RB#99	24.03
Band38	20MHz	QPSK	38150	50RB#0	23.31
Band38	20MHz	QPSK	38150	50RB#50	23.21
Band38	20MHz	QPSK	38150	50RB#25	23.31
Band38	20MHz	QPSK	38150	100RB#0	23.22
Band38	20MHz	16QAM	37850	1RB#99	22.62
Band38	20MHz	16QAM	37850	1RB#0	22.89
Band38	20MHz	16QAM	37850	1RB#49	22.53
Band38	20MHz	16QAM	37850	50RB#50	22.11
Band38	20MHz	16QAM	37850	50RB#25	22.15
Band38	20MHz	16QAM	37850	50RB#0	22.10
Band38	20MHz	16QAM	37850	100RB#0	22.14
Band38	20MHz	16QAM	38000	1RB#99	22.63
Band38	20MHz	16QAM	38000	1RB#0	23.00
Band38	20MHz	16QAM	38000	1RB#49	22.72
Band38	20MHz	16QAM	38000	50RB#50	22.28
Band38	20MHz	16QAM	38000	50RB#0	22.16
Band38	20MHz	16QAM	38000	50RB#25	22.22
Band38	20MHz	16QAM	38000	100RB#0	22.27
Band38	20MHz	16QAM	38150	1RB#49	22.97
Band38	20MHz	16QAM	38150	1RB#0	22.60
Band38	20MHz	16QAM	38150	1RB#99	22.53
Band38	20MHz	16QAM	38150	50RB#0	22.18
Band38	20MHz	16QAM	38150	50RB#25	22.17



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Band38	20MHz	16QAM	38150	50RB#50	22.21
Band38	20MHz	16QAM	38150	100RB#0	22.21



**LTE Band41**

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)
Band41	5MHz	QPSK	37775	1RB#0	24.45
Band41	5MHz	QPSK	37775	1RB#12	24.81
Band41	5MHz	QPSK	37775	1RB#24	24.68
Band41	5MHz	QPSK	37775	12RB#0	23.56
Band41	5MHz	QPSK	37775	12RB#6	23.71
Band41	5MHz	QPSK	37775	12RB#13	23.64
Band41	5MHz	QPSK	37775	25RB#0	23.61
Band41	5MHz	QPSK	38000	1RB#0	24.36
Band41	5MHz	QPSK	38000	1RB#24	24.13
Band41	5MHz	QPSK	38000	1RB#12	24.64
Band41	5MHz	QPSK	38000	12RB#0	23.35
Band41	5MHz	QPSK	38000	12RB#6	23.31
Band41	5MHz	QPSK	38000	12RB#13	23.34
Band41	5MHz	QPSK	38000	25RB#0	23.27
Band41	5MHz	QPSK	38225	1RB#24	24.32
Band41	5MHz	QPSK	38225	1RB#0	24.52
Band41	5MHz	QPSK	38225	1RB#12	24.52
Band41	5MHz	QPSK	38225	12RB#0	23.61
Band41	5MHz	QPSK	38225	12RB#6	23.69
Band41	5MHz	QPSK	38225	12RB#13	23.58
Band41	5MHz	QPSK	38225	25RB#0	23.62
Band41	5MHz	16QAM	37775	1RB#0	23.34
Band41	5MHz	16QAM	37775	1RB#12	23.40
Band41	5MHz	16QAM	37775	1RB#24	23.22
Band41	5MHz	16QAM	37775	12RB#6	22.64
Band41	5MHz	16QAM	37775	12RB#0	22.58
Band41	5MHz	16QAM	37775	12RB#13	22.63
Band41	5MHz	16QAM	37775	25RB#0	22.69
Band41	5MHz	16QAM	38000	1RB#0	22.76
Band41	5MHz	16QAM	38000	1RB#12	23.09
Band41	5MHz	16QAM	38000	1RB#24	22.80
Band41	5MHz	16QAM	38000	12RB#13	22.35
Band41	5MHz	16QAM	38000	12RB#0	22.37
Band41	5MHz	16QAM	38000	12RB#6	22.34
Band41	5MHz	16QAM	38000	25RB#0	22.38
Band41	5MHz	16QAM	38225	1RB#12	23.26
Band41	5MHz	16QAM	38225	1RB#0	23.38
Band41	5MHz	16QAM	38225	1RB#24	23.10
Band41	5MHz	16QAM	38225	12RB#0	22.72
Band41	5MHz	16QAM	38225	12RB#6	22.80
Band41	5MHz	16QAM	38225	12RB#13	22.50
Band41	5MHz	16QAM	38225	25RB#0	22.62
Band41	10MHz	QPSK	37800	1RB#24	24.86
Band41	10MHz	QPSK	37800	1RB#49	24.42
Band41	10MHz	QPSK	37800	1RB#0	24.57
Band41	10MHz	QPSK	37800	25RB#0	23.58
Band41	10MHz	QPSK	37800	25RB#12	23.69
Band41	10MHz	QPSK	37800	25RB#25	23.51
Band41	10MHz	QPSK	37800	50RB#0	23.54
Band41	10MHz	QPSK	38000	1RB#0	24.17
Band41	10MHz	QPSK	38000	1RB#49	24.15
Band41	10MHz	QPSK	38000	1RB#24	24.58
Band41	10MHz	QPSK	38000	25RB#25	23.22
Band41	10MHz	QPSK	38000	25RB#0	23.38



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Band41	10MHz	QPSK	38000	25RB#12	23.30
Band41	10MHz	QPSK	38000	50RB#0	23.36
Band41	10MHz	QPSK	38200	1RB#24	24.79
Band41	10MHz	QPSK	38200	1RB#0	24.52
Band41	10MHz	QPSK	38200	1RB#49	24.30
Band41	10MHz	QPSK	38200	25RB#0	23.68
Band41	10MHz	QPSK	38200	25RB#25	23.52
Band41	10MHz	QPSK	38200	25RB#12	23.59
Band41	10MHz	QPSK	38200	50RB#0	23.63
Band41	10MHz	16QAM	37800	1RB#49	23.26
Band41	10MHz	16QAM	37800	1RB#0	23.22
Band41	10MHz	16QAM	37800	1RB#24	23.34
Band41	10MHz	16QAM	37800	25RB#25	22.70
Band41	10MHz	16QAM	37800	25RB#12	22.76
Band41	10MHz	16QAM	37800	25RB#0	22.63
Band41	10MHz	16QAM	37800	50RB#0	22.71
Band41	10MHz	16QAM	38000	1RB#49	22.82
Band41	10MHz	16QAM	38000	1RB#0	22.88
Band41	10MHz	16QAM	38000	1RB#24	23.05
Band41	10MHz	16QAM	38000	25RB#25	22.40
Band41	10MHz	16QAM	38000	25RB#0	22.38
Band41	10MHz	16QAM	38000	25RB#12	22.28
Band41	10MHz	16QAM	38000	50RB#0	22.41
Band41	10MHz	16QAM	38200	1RB#24	23.42
Band41	10MHz	16QAM	38200	1RB#0	23.17
Band41	10MHz	16QAM	38200	1RB#49	23.19
Band41	10MHz	16QAM	38200	25RB#0	22.61
Band41	10MHz	16QAM	38200	25RB#12	22.57
Band41	10MHz	16QAM	38200	25RB#25	22.63
Band41	10MHz	16QAM	38200	50RB#0	22.43
Band41	15MHz	QPSK	37825	1RB#0	24.17
Band41	15MHz	QPSK	37825	1RB#38	24.74
Band41	15MHz	QPSK	37825	1RB#74	24.33
Band41	15MHz	QPSK	37825	36RB#0	23.57
Band41	15MHz	QPSK	37825	36RB#18	23.55
Band41	15MHz	QPSK	37825	36RB#39	23.54
Band41	15MHz	QPSK	37825	75RB#0	23.53
Band41	15MHz	QPSK	38000	1RB#0	24.27
Band41	15MHz	QPSK	38000	1RB#74	24.14
Band41	15MHz	QPSK	38000	1RB#38	24.36
Band41	15MHz	QPSK	38000	36RB#0	23.35
Band41	15MHz	QPSK	38000	36RB#18	23.32
Band41	15MHz	QPSK	38000	36RB#39	23.21
Band41	15MHz	QPSK	38000	75RB#0	23.31
Band41	15MHz	QPSK	38175	1RB#74	24.33
Band41	15MHz	QPSK	38175	1RB#0	24.50
Band41	15MHz	QPSK	38175	1RB#38	24.59
Band41	15MHz	QPSK	38175	36RB#0	23.73
Band41	15MHz	QPSK	38175	36RB#18	23.68
Band41	15MHz	QPSK	38175	36RB#39	23.50
Band41	15MHz	QPSK	38175	75RB#0	23.64
Band41	15MHz	16QAM	37825	1RB#0	22.99
Band41	15MHz	16QAM	37825	1RB#38	23.03
Band41	15MHz	16QAM	37825	1RB#74	22.99
Band41	15MHz	16QAM	37825	36RB#18	22.55
Band41	15MHz	16QAM	37825	36RB#	22.61





Band41	15MHz	16QAM	37825	36RB#39	22.82
Band41	15MHz	16QAM	37825	75RB#0	22.62
Band41	15MHz	16QAM	38000	1RB#0	22.88
Band41	15MHz	16QAM	38000	1RB#38	22.92
Band41	15MHz	16QAM	38000	1RB#74	22.93
Band41	15MHz	16QAM	38000	36RB#39	22.29
Band41	15MHz	16QAM	38000	36RB#0	22.43
Band41	15MHz	16QAM	38000	36RB#18	22.29
Band41	15MHz	16QAM	38000	75RB#0	22.37
Band41	15MHz	16QAM	38175	1RB#38	23.01
Band41	15MHz	16QAM	38175	1RB#0	23.38
Band41	15MHz	16QAM	38175	1RB#74	23.12
Band41	15MHz	16QAM	38175	36RB#0	22.63
Band41	15MHz	16QAM	38175	36RB#18	22.63
Band41	15MHz	16QAM	38175	36RB#39	22.56
Band41	15MHz	16QAM	38175	75RB#0	22.53
Band41	20MHz	QPSK	37850	1RB#99	24.30
Band41	20MHz	QPSK	37850	1RB#49	24.92
Band41	20MHz	QPSK	37850	1RB#0	24.16
Band41	20MHz	QPSK	37850	50RB#0	23.55
Band41	20MHz	QPSK	37850	50RB#25	23.65
Band41	20MHz	QPSK	37850	50RB#50	23.46
Band41	20MHz	QPSK	37850	100RB#0	23.44
Band41	20MHz	QPSK	38000	1RB#0	24.08
Band41	20MHz	QPSK	38000	1RB#99	23.96
Band41	20MHz	QPSK	38000	1RB#49	24.54
Band41	20MHz	QPSK	38000	50RB#50	23.32
Band41	20MHz	QPSK	38000	50RB#0	23.36
Band41	20MHz	QPSK	38000	50RB#25	23.39
Band41	20MHz	QPSK	38000	100RB#0	23.31
Band41	20MHz	QPSK	38150	1RB#49	24.90
Band41	20MHz	QPSK	38150	1RB#0	24.50
Band41	20MHz	QPSK	38150	1RB#99	24.22
Band41	20MHz	QPSK	38150	50RB#0	23.75
Band41	20MHz	QPSK	38150	50RB#50	23.49
Band41	20MHz	QPSK	38150	50RB#25	23.73
Band41	20MHz	QPSK	38150	100RB#0	23.63
Band41	20MHz	16QAM	37850	1RB#99	23.10
Band41	20MHz	16QAM	37850	1RB#0	22.86
Band41	20MHz	16QAM	37850	1RB#49	23.30
Band41	20MHz	16QAM	37850	50RB#50	22.53
Band41	20MHz	16QAM	37850	50RB#25	22.80
Band41	20MHz	16QAM	37850	50RB#0	22.69
Band41	20MHz	16QAM	37850	100RB#0	22.53
Band41	20MHz	16QAM	38000	1RB#99	22.65
Band41	20MHz	16QAM	38000	1RB#0	22.58
Band41	20MHz	16QAM	38000	1RB#49	22.94
Band41	20MHz	16QAM	38000	50RB#50	22.40
Band41	20MHz	16QAM	38000	50RB#0	22.27
Band41	20MHz	16QAM	38000	50RB#25	22.46
Band41	20MHz	16QAM	38000	100RB#0	22.32
Band41	20MHz	16QAM	38150	1RB#49	23.28
Band41	20MHz	16QAM	38150	1RB#0	23.20
Band41	20MHz	16QAM	38150	1RB#99	23.13
Band41	20MHz	16QAM	38150	50RB#0	22.65
Band41	20MHz	16QAM	38150	50RB#25	22.60



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Band41	20MHz	16QAM	38150	50RB#50	22.56
Band41	20MHz	16QAM	38150	100RB#0	22.54





LTE Band66

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)
Band66	1.4MHz	QPSK	131979	1RB#0	24.36
Band66	1.4MHz	QPSK	131979	1RB#2	24.04
Band66	1.4MHz	QPSK	131979	1RB#5	24.46
Band66	1.4MHz	QPSK	131979	3RB#1	24.59
Band66	1.4MHz	QPSK	131979	3RB#0	24.53
Band66	1.4MHz	QPSK	131979	3RB#3	24.70
Band66	1.4MHz	QPSK	131979	6RB#0	23.56
Band66	1.4MHz	QPSK	132322	1RB#5	24.57
Band66	1.4MHz	QPSK	132322	1RB#0	24.59
Band66	1.4MHz	QPSK	132322	1RB#2	24.92
Band66	1.4MHz	QPSK	132322	3RB#0	24.81
Band66	1.4MHz	QPSK	132322	3RB#1	25.01
Band66	1.4MHz	QPSK	132322	3RB#3	24.91
Band66	1.4MHz	QPSK	132322	6RB#0	23.73
Band66	1.4MHz	QPSK	132665	1RB#2	24.66
Band66	1.4MHz	QPSK	132665	1RB#5	24.59
Band66	1.4MHz	QPSK	132665	1RB#0	24.64
Band66	1.4MHz	QPSK	132665	3RB#0	24.87
Band66	1.4MHz	QPSK	132665	3RB#3	24.74
Band66	1.4MHz	QPSK	132665	3RB#1	24.94
Band66	1.4MHz	QPSK	132665	6RB#0	23.68
Band66	1.4MHz	16QAM	131979	1RB#2	23.17
Band66	1.4MHz	16QAM	131979	1RB#5	23.01
Band66	1.4MHz	16QAM	131979	1RB#0	23.10
Band66	1.4MHz	16QAM	131979	3RB#0	23.69
Band66	1.4MHz	16QAM	131979	3RB#1	23.67
Band66	1.4MHz	16QAM	131979	3RB#3	23.93
Band66	1.4MHz	16QAM	131979	6RB#0	22.70
Band66	1.4MHz	16QAM	132322	1RB#5	23.43
Band66	1.4MHz	16QAM	132322	1RB#0	23.51
Band66	1.4MHz	16QAM	132322	1RB#2	23.54
Band66	1.4MHz	16QAM	132322	3RB#3	24.33
Band66	1.4MHz	16QAM	132322	3RB#1	23.84
Band66	1.4MHz	16QAM	132322	3RB#0	23.97
Band66	1.4MHz	16QAM	132322	6RB#0	22.75
Band66	1.4MHz	16QAM	132665	1RB#2	24.25
Band66	1.4MHz	16QAM	132665	1RB#5	23.41
Band66	1.4MHz	16QAM	132665	1RB#0	23.40
Band66	1.4MHz	16QAM	132665	3RB#3	23.82
Band66	1.4MHz	16QAM	132665	3RB#1	23.89
Band66	1.4MHz	16QAM	132665	3RB#0	23.91
Band66	1.4MHz	16QAM	132665	6RB#0	22.71
Band66	3MHz	QPSK	131987	1RB#14	24.53
Band66	3MHz	QPSK	131987	1RB#0	24.39
Band66	3MHz	QPSK	131987	1RB#8	24.60
Band66	3MHz	QPSK	131987	8RB#7	23.51
Band66	3MHz	QPSK	131987	8RB#4	23.60
Band66	3MHz	QPSK	131987	8RB#0	23.60
Band66	3MHz	QPSK	131987	15RB#0	23.55
Band66	3MHz	QPSK	132322	1RB#14	24.56
Band66	3MHz	QPSK	132322	1RB#8	24.95
Band66	3MHz	QPSK	132322	1RB#0	24.77
Band66	3MHz	QPSK	132322	8RB#7	23.73
Band66	3MHz	QPSK	132322	8RB#0	23.73



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Band66	3MHz	QPSK	132322	8RB#4	23.88
Band66	3MHz	QPSK	132322	15RB#0	23.72
Band66	3MHz	QPSK	132657	1RB#14	24.57
Band66	3MHz	QPSK	132657	1RB#8	24.67
Band66	3MHz	QPSK	132657	1RB#0	24.71
Band66	3MHz	QPSK	132657	8RB#4	23.57
Band66	3MHz	QPSK	132657	8RB#0	23.71
Band66	3MHz	QPSK	132657	8RB#7	23.62
Band66	3MHz	QPSK	132657	15RB#0	23.71
Band66	3MHz	16QAM	131987	1RB#8	23.25
Band66	3MHz	16QAM	131987	1RB#14	23.21
Band66	3MHz	16QAM	131987	1RB#0	23.28
Band66	3MHz	16QAM	131987	8RB#0	22.51
Band66	3MHz	16QAM	131987	8RB#7	22.84
Band66	3MHz	16QAM	131987	8RB#4	22.43
Band66	3MHz	16QAM	131987	15RB#0	22.50
Band66	3MHz	16QAM	132322	1RB#8	23.40
Band66	3MHz	16QAM	132322	1RB#14	23.36
Band66	3MHz	16QAM	132322	1RB#0	23.52
Band66	3MHz	16QAM	132322	8RB#4	22.75
Band66	3MHz	16QAM	132322	8RB#0	22.64
Band66	3MHz	16QAM	132322	8RB#7	22.74
Band66	3MHz	16QAM	132322	15RB#0	22.81
Band66	3MHz	16QAM	132657	1RB#14	23.34
Band66	3MHz	16QAM	132657	1RB#0	23.47
Band66	3MHz	16QAM	132657	1RB#8	23.16
Band66	3MHz	16QAM	132657	8RB#0	22.57
Band66	3MHz	16QAM	132657	8RB#7	22.41
Band66	3MHz	16QAM	132657	8RB#4	22.54
Band66	3MHz	16QAM	132657	15RB#0	22.66
Band66	5MHz	QPSK	131997	1RB#24	24.36
Band66	5MHz	QPSK	131997	1RB#12	24.56
Band66	5MHz	QPSK	131997	1RB#0	24.66
Band66	5MHz	QPSK	131997	12RB#6	23.65
Band66	5MHz	QPSK	131997	12RB#	23.64
Band66	5MHz	QPSK	131997	12RB#13	23.55
Band66	5MHz	QPSK	131997	25RB#0	23.59
Band66	5MHz	QPSK	132322	1RB#24	24.72
Band66	5MHz	QPSK	132322	1RB#0	24.58
Band66	5MHz	QPSK	132322	1RB#12	24.88
Band66	5MHz	QPSK	132322	12RB#6	23.79
Band66	5MHz	QPSK	132322	12RB#0	23.83
Band66	5MHz	QPSK	132322	12RB#13	23.62
Band66	5MHz	QPSK	132322	25RB#0	23.62
Band66	5MHz	QPSK	132647	1RB#0	24.62
Band66	5MHz	QPSK	132647	1RB#12	24.54
Band66	5MHz	QPSK	132647	1RB#24	24.68
Band66	5MHz	QPSK	132647	12RB#0	23.80
Band66	5MHz	QPSK	132647	12RB#6	23.68
Band66	5MHz	QPSK	132647	12RB#13	23.62
Band66	5MHz	QPSK	132647	25RB#0	23.75
Band66	5MHz	16QAM	131997	1RB#0	23.31
Band66	5MHz	16QAM	131997	1RB#12	23.66
Band66	5MHz	16QAM	131997	1RB#24	22.97
Band66	5MHz	16QAM	131997	12RB#13	22.50
Band66	5MHz	16QAM	131997	12RB#0	22.62



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Band66	5MHz	16QAM	131997	12RB#6	22.66
Band66	5MHz	16QAM	131997	25RB#0	22.56
Band66	5MHz	16QAM	132322	1RB#0	23.50
Band66	5MHz	16QAM	132322	1RB#12	23.77
Band66	5MHz	16QAM	132322	1RB#24	23.30
Band66	5MHz	16QAM	132322	12RB#0	22.73
Band66	5MHz	16QAM	132322	12RB#13	22.64
Band66	5MHz	16QAM	132322	12RB#6	22.66
Band66	5MHz	16QAM	132322	25RB#0	22.69
Band66	5MHz	16QAM	132647	1RB#0	23.28
Band66	5MHz	16QAM	132647	1RB#24	23.40
Band66	5MHz	16QAM	132647	1RB#12	23.77
Band66	5MHz	16QAM	132647	12RB#0	22.66
Band66	5MHz	16QAM	132647	12RB#6	22.61
Band66	5MHz	16QAM	132647	12RB#13	22.65
Band66	5MHz	16QAM	132647	25RB#0	22.76
Band66	10MHz	QPSK	132022	1RB#0	24.46
Band66	10MHz	QPSK	132022	1RB#24	24.97
Band66	10MHz	QPSK	132022	1RB#49	24.18
Band66	10MHz	QPSK	132022	25RB#12	23.72
Band66	10MHz	QPSK	132022	25RB#0	23.61
Band66	10MHz	QPSK	132022	25RB#25	23.48
Band66	10MHz	QPSK	132022	50RB#	23.58
Band66	10MHz	QPSK	132322	1RB#49	24.33
Band66	10MHz	QPSK	132322	1RB#0	24.86
Band66	10MHz	QPSK	132322	1RB#24	25.01
Band66	10MHz	QPSK	132322	25RB#0	23.92
Band66	10MHz	QPSK	132322	25RB#12	23.92
Band66	10MHz	QPSK	132322	25RB#25	23.73
Band66	10MHz	QPSK	132322	50RB#0	23.82
Band66	10MHz	QPSK	132622	1RB#24	24.84
Band66	10MHz	QPSK	132622	1RB#49	24.28
Band66	10MHz	QPSK	132622	1RB#0	24.67
Band66	10MHz	QPSK	132622	25RB#0	23.92
Band66	10MHz	QPSK	132622	25RB#25	23.45
Band66	10MHz	QPSK	132622	25RB#12	23.66
Band66	10MHz	QPSK	132622	50RB#0	23.63
Band66	10MHz	16QAM	132022	1RB#24	23.27
Band66	10MHz	16QAM	132022	1RB#49	23.19
Band66	10MHz	16QAM	132022	1RB#0	23.24
Band66	10MHz	16QAM	132022	25RB#0	22.60
Band66	10MHz	16QAM	132022	25RB#12	22.68
Band66	10MHz	16QAM	132022	25RB#25	22.44
Band66	10MHz	16QAM	132022	50RB#0	22.65
Band66	10MHz	16QAM	132322	1RB#49	23.31
Band66	10MHz	16QAM	132322	1RB#0	23.49
Band66	10MHz	16QAM	132322	1RB#24	23.42
Band66	10MHz	16QAM	132322	25RB#25	22.80
Band66	10MHz	16QAM	132322	25RB#12	22.76
Band66	10MHz	16QAM	132322	25RB#0	22.83
Band66	10MHz	16QAM	132322	50RB#0	22.82
Band66	10MHz	16QAM	132622	1RB#24	23.46
Band66	10MHz	16QAM	132622	1RB#49	23.28
Band66	10MHz	16QAM	132622	1RB#0	23.32
Band66	10MHz	16QAM	132622	25RB#25	22.75
Band66	10MHz	16QAM	132622	25RB#12	22.78



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Band66	10MHz	16QAM	132622	25RB#0	22.72
Band66	10MHz	16QAM	132622	50RB#0	22.63
Band66	15MHz	QPSK	132047	1RB#74	24.26
Band66	15MHz	QPSK	132047	1RB#0	24.50
Band66	15MHz	QPSK	132047	1RB#38	24.76
Band66	15MHz	QPSK	132047	36RB#39	23.42
Band66	15MHz	QPSK	132047	36RB#18	23.71
Band66	15MHz	QPSK	132047	36RB#0	23.68
Band66	15MHz	QPSK	132047	75RB#0	23.50
Band66	15MHz	QPSK	132322	1RB#74	24.51
Band66	15MHz	QPSK	132322	1RB#38	24.94
Band66	15MHz	QPSK	132322	1RB#0	24.68
Band66	15MHz	QPSK	132322	36RB#0	23.77
Band66	15MHz	QPSK	132322	36RB#39	23.64
Band66	15MHz	QPSK	132322	36RB#18	23.95
Band66	15MHz	QPSK	132322	75RB#0	23.69
Band66	15MHz	QPSK	132597	1RB#74	23.92
Band66	15MHz	QPSK	132597	1RB#38	24.98
Band66	15MHz	QPSK	132597	1RB#0	24.59
Band66	15MHz	QPSK	132597	36RB#18	23.82
Band66	15MHz	QPSK	132597	36RB#0	23.92
Band66	15MHz	QPSK	132597	36RB#39	23.46
Band66	15MHz	QPSK	132597	75RB#0	23.73
Band66	15MHz	16QAM	132047	1RB#0	23.09
Band66	15MHz	16QAM	132047	1RB#74	23.43
Band66	15MHz	16QAM	132047	1RB#38	23.16
Band66	15MHz	16QAM	132047	36RB#0	22.66
Band66	15MHz	16QAM	132047	36RB#39	22.64
Band66	15MHz	16QAM	132047	36RB#18	22.70
Band66	15MHz	16QAM	132047	75RB#0	22.66
Band66	15MHz	16QAM	132322	1RB#38	23.41
Band66	15MHz	16QAM	132322	1RB#74	23.08
Band66	15MHz	16QAM	132322	1RB#0	23.44
Band66	15MHz	16QAM	132322	36RB#18	22.84
Band66	15MHz	16QAM	132322	36RB#0	22.88
Band66	15MHz	16QAM	132322	36RB#39	22.72
Band66	15MHz	16QAM	132322	75RB#0	22.86
Band66	15MHz	16QAM	132597	1RB#74	23.24
Band66	15MHz	16QAM	132597	1RB#0	23.25
Band66	15MHz	16QAM	132597	1RB#38	23.30
Band66	15MHz	16QAM	132597	36RB#0	22.76
Band66	15MHz	16QAM	132597	36RB#39	22.60
Band66	15MHz	16QAM	132597	36RB#18	22.76
Band66	15MHz	16QAM	132597	75RB#0	22.77
Band66	20MHz	QPSK	132072	1RB#99	24.38
Band66	20MHz	QPSK	132072	1RB#49	25.08
Band66	20MHz	QPSK	132072	1RB#0	24.40
Band66	20MHz	QPSK	132072	50RB#25	23.71
Band66	20MHz	QPSK	132072	50RB#0	23.65
Band66	20MHz	QPSK	132072	50RB#50	23.50
Band66	20MHz	QPSK	132072	100RB#0	23.66
Band66	20MHz	QPSK	132322	1RB#99	24.59
Band66	20MHz	QPSK	132322	1RB#0	24.63
Band66	20MHz	QPSK	132322	1RB#49	25.17
Band66	20MHz	QPSK	132322	50RB#25	24.02
Band66	20MHz	QPSK	132322	50RB#0	23.93



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Band66	20MHz	QPSK	132322	50RB#50	23.69
Band66	20MHz	QPSK	132322	100RB#0	23.83
Band66	20MHz	QPSK	132572	1RB#0	24.69
Band66	20MHz	QPSK	132572	1RB#49	25.03
Band66	20MHz	QPSK	132572	1RB#99	24.36
Band66	20MHz	QPSK	132572	50RB#	24.03
Band66	20MHz	QPSK	132572	50RB#25	23.93
Band66	20MHz	QPSK	132572	50RB#50	23.54
Band66	20MHz	QPSK	132572	100RB#0	23.74
Band66	20MHz	16QAM	132072	1RB#0	23.14
Band66	20MHz	16QAM	132072	1RB#49	23.29
Band66	20MHz	16QAM	132072	1RB#99	23.45
Band66	20MHz	16QAM	132072	50RB#50	22.60
Band66	20MHz	16QAM	132072	50RB#0	22.58
Band66	20MHz	16QAM	132072	50RB#25	22.48
Band66	20MHz	16QAM	132072	100RB#0	22.54
Band66	20MHz	16QAM	132322	1RB#0	23.47
Band66	20MHz	16QAM	132322	1RB#49	23.48
Band66	20MHz	16QAM	132322	1RB#99	23.44
Band66	20MHz	16QAM	132322	50RB#0	22.83
Band66	20MHz	16QAM	132322	50RB#50	22.77
Band66	20MHz	16QAM	132322	50RB#25	22.83
Band66	20MHz	16QAM	132322	100RB#0	22.80
Band66	20MHz	16QAM	132572	1RB#0	23.36
Band66	20MHz	16QAM	132572	1RB#99	23.32
Band66	20MHz	16QAM	132572	1RB#49	23.52
Band66	20MHz	16QAM	132572	50RB#0	22.76
Band66	20MHz	16QAM	132572	50RB#25	22.85
Band66	20MHz	16QAM	132572	50RB#50	22.73
Band66	20MHz	16QAM	132572	100RB#0	22.95





LTE Band71

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)
Band71	5MHz	QPSK	133147	1RB#0	24.23
Band71	5MHz	QPSK	133147	1RB#12	24.51
Band71	5MHz	QPSK	133147	1RB#24	24.38
Band71	5MHz	QPSK	133147	12RB#0	23.10
Band71	5MHz	QPSK	133147	12RB#6	23.41
Band71	5MHz	QPSK	133147	12RB#13	23.25
Band71	5MHz	QPSK	133147	25RB#0	23.25
Band71	5MHz	QPSK	133297	1RB#0	24.13
Band71	5MHz	QPSK	133297	1RB#24	24.12
Band71	5MHz	QPSK	133297	1RB#12	24.29
Band71	5MHz	QPSK	133297	12RB#0	23.12
Band71	5MHz	QPSK	133297	12RB#6	23.27
Band71	5MHz	QPSK	133297	12RB#13	23.28
Band71	5MHz	QPSK	133297	25RB#0	23.28
Band71	5MHz	QPSK	133447	1RB#24	24.33
Band71	5MHz	QPSK	133447	1RB#0	24.16
Band71	5MHz	QPSK	133447	1RB#12	24.07
Band71	5MHz	QPSK	133447	12RB#0	23.24
Band71	5MHz	QPSK	133447	12RB#6	23.34
Band71	5MHz	QPSK	133447	12RB#13	23.22
Band71	5MHz	QPSK	133447	25RB#0	23.30
Band71	5MHz	16QAM	133147	1RB#0	22.97
Band71	5MHz	16QAM	133147	1RB#12	23.40
Band71	5MHz	16QAM	133147	1RB#24	22.46
Band71	5MHz	16QAM	133147	12RB#6	22.31
Band71	5MHz	16QAM	133147	12RB#0	22.26
Band71	5MHz	16QAM	133147	12RB#13	21.97
Band71	5MHz	16QAM	133147	25RB#0	22.18
Band71	5MHz	16QAM	133297	1RB#0	22.89
Band71	5MHz	16QAM	133297	1RB#12	23.03
Band71	5MHz	16QAM	133297	1RB#24	22.95
Band71	5MHz	16QAM	133297	12RB#13	22.26
Band71	5MHz	16QAM	133297	12RB#0	22.20
Band71	5MHz	16QAM	133297	12RB#6	22.26
Band71	5MHz	16QAM	133297	25RB#0	22.46
Band71	5MHz	16QAM	133447	1RB#12	23.26
Band71	5MHz	16QAM	133447	1RB#0	22.81
Band71	5MHz	16QAM	133447	1RB#24	22.85
Band71	5MHz	16QAM	133447	12RB#0	22.33
Band71	5MHz	16QAM	133447	12RB#6	22.31
Band71	5MHz	16QAM	133447	12RB#13	22.18
Band71	5MHz	16QAM	133447	25RB#0	22.34
Band71	10MHz	QPSK	133172	1RB#24	24.40
Band71	10MHz	QPSK	133172	1RB#49	24.12
Band71	10MHz	QPSK	133172	1RB#0	24.18
Band71	10MHz	QPSK	133172	25RB#0	23.34
Band71	10MHz	QPSK	133172	25RB#12	23.33
Band71	10MHz	QPSK	133172	25RB#25	23.08
Band71	10MHz	QPSK	133172	50RB#0	23.19
Band71	10MHz	QPSK	133297	1RB#0	23.94
Band71	10MHz	QPSK	133297	1RB#49	24.08
Band71	10MHz	QPSK	133297	1RB#24	24.39
Band71	10MHz	QPSK	133297	25RB#25	23.23
Band71	10MHz	QPSK	133297	25RB#0	23.34



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Band71	10MHz	QPSK	133297	25RB#12	23.33
Band71	10MHz	QPSK	133297	50RB#0	23.24
Band71	10MHz	QPSK	133422	1RB#24	24.37
Band71	10MHz	QPSK	133422	1RB#0	24.32
Band71	10MHz	QPSK	133422	1RB#49	24.38
Band71	10MHz	QPSK	133422	25RB#0	23.34
Band71	10MHz	QPSK	133422	25RB#25	23.35
Band71	10MHz	QPSK	133422	25RB#12	23.27
Band71	10MHz	QPSK	133422	50RB#0	23.37
Band71	10MHz	16QAM	133172	1RB#49	22.76
Band71	10MHz	16QAM	133172	1RB#0	22.94
Band71	10MHz	16QAM	133172	1RB#24	22.89
Band71	10MHz	16QAM	133172	25RB#25	22.02
Band71	10MHz	16QAM	133172	25RB#12	22.16
Band71	10MHz	16QAM	133172	25RB#0	22.24
Band71	10MHz	16QAM	133172	50RB#0	22.32
Band71	10MHz	16QAM	133297	1RB#49	23.00
Band71	10MHz	16QAM	133297	1RB#0	22.82
Band71	10MHz	16QAM	133297	1RB#24	23.00
Band71	10MHz	16QAM	133297	25RB#25	22.38
Band71	10MHz	16QAM	133297	25RB#0	22.38
Band71	10MHz	16QAM	133297	25RB#12	22.38
Band71	10MHz	16QAM	133297	50RB#0	22.23
Band71	10MHz	16QAM	133422	1RB#24	22.99
Band71	10MHz	16QAM	133422	1RB#0	22.97
Band71	10MHz	16QAM	133422	1RB#49	23.01
Band71	10MHz	16QAM	133422	25RB#0	22.42
Band71	10MHz	16QAM	133422	25RB#12	22.51
Band71	10MHz	16QAM	133422	25RB#25	22.37
Band71	10MHz	16QAM	133422	50RB#0	22.50
Band71	15MHz	QPSK	133197	1RB#0	24.18
Band71	15MHz	QPSK	133197	1RB#38	24.35
Band71	15MHz	QPSK	133197	1RB#74	24.10
Band71	15MHz	QPSK	133197	36RB#0	23.17
Band71	15MHz	QPSK	133197	36RB#18	23.27
Band71	15MHz	QPSK	133197	36RB#39	23.09
Band71	15MHz	QPSK	133197	75RB#0	23.23
Band71	15MHz	QPSK	133297	1RB#0	23.96
Band71	15MHz	QPSK	133297	1RB#74	23.92
Band71	15MHz	QPSK	133297	1RB#38	24.31
Band71	15MHz	QPSK	133297	36RB#0	23.18
Band71	15MHz	QPSK	133297	36RB#18	23.22
Band71	15MHz	QPSK	133297	36RB#39	23.24
Band71	15MHz	QPSK	133297	75RB#0	23.21
Band71	15MHz	QPSK	133397	1RB#74	24.15
Band71	15MHz	QPSK	133397	1RB#0	24.22
Band71	15MHz	QPSK	133397	1RB#38	24.01
Band71	15MHz	QPSK	133397	36RB#0	23.26
Band71	15MHz	QPSK	133397	36RB#18	23.30
Band71	15MHz	QPSK	133397	36RB#39	23.25
Band71	15MHz	QPSK	133397	75RB#0	23.34
Band71	15MHz	16QAM	133197	1RB#0	22.97
Band71	15MHz	16QAM	133197	1RB#38	22.89
Band71	15MHz	16QAM	133197	1RB#74	22.82
Band71	15MHz	16QAM	133197	36RB#18	22.33
Band71	15MHz	16QAM	133197	36RB#0	22.11



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Band71	15MHz	16QAM	133197	36RB#39	22.21
Band71	15MHz	16QAM	133197	75RB#0	22.18
Band71	15MHz	16QAM	133297	1RB#0	22.77
Band71	15MHz	16QAM	133297	1RB#38	22.67
Band71	15MHz	16QAM	133297	1RB#74	22.95
Band71	15MHz	16QAM	133297	36RB#39	22.14
Band71	15MHz	16QAM	133297	36RB#0	22.24
Band71	15MHz	16QAM	133297	36RB#18	22.18
Band71	15MHz	16QAM	133297	75RB#0	22.29
Band71	15MHz	16QAM	133397	1RB#38	23.02
Band71	15MHz	16QAM	133397	1RB#0	23.04
Band71	15MHz	16QAM	133397	1RB#74	22.96
Band71	15MHz	16QAM	133397	36RB#0	22.32
Band71	15MHz	16QAM	133397	36RB#18	22.32
Band71	15MHz	16QAM	133397	36RB#39	22.34
Band71	15MHz	16QAM	133397	75RB#0	22.27
Band71	20MHz	QPSK	133222	1RB#99	24.10
Band71	20MHz	QPSK	133222	1RB#49	26.06
Band71	20MHz	QPSK	133222	1RB#0	24.03
Band71	20MHz	QPSK	133222	50RB#0	23.15
Band71	20MHz	QPSK	133222	50RB#25	23.34
Band71	20MHz	QPSK	133222	50RB#50	23.11
Band71	20MHz	QPSK	133222	100RB#0	23.09
Band71	20MHz	QPSK	133322	1RB#0	23.91
Band71	20MHz	QPSK	133322	1RB#99	23.74
Band71	20MHz	QPSK	133322	1RB#49	24.43
Band71	20MHz	QPSK	133322	50RB#50	23.09
Band71	20MHz	QPSK	133322	50RB#0	23.30
Band71	20MHz	QPSK	133322	50RB#25	23.30
Band71	20MHz	QPSK	133322	100RB#0	23.18
Band71	20MHz	QPSK	133372	1RB#49	24.48
Band71	20MHz	QPSK	133372	1RB#0	23.90
Band71	20MHz	QPSK	133372	1RB#99	23.80
Band71	20MHz	QPSK	133372	50RB#0	23.25
Band71	20MHz	QPSK	133372	50RB#50	23.16
Band71	20MHz	QPSK	133372	50RB#25	23.30
Band71	20MHz	QPSK	133372	100RB#0	23.34
Band71	20MHz	16QAM	133222	1RB#99	22.61
Band71	20MHz	16QAM	133222	1RB#0	22.88
Band71	20MHz	16QAM	133222	1RB#49	22.88
Band71	20MHz	16QAM	133222	50RB#50	22.12
Band71	20MHz	16QAM	133222	50RB#25	22.11
Band71	20MHz	16QAM	133222	50RB#0	22.25
Band71	20MHz	16QAM	133222	100RB#0	22.02
Band71	20MHz	16QAM	133322	1RB#99	22.67
Band71	20MHz	16QAM	133322	1RB#0	22.65
Band71	20MHz	16QAM	133322	1RB#49	22.93
Band71	20MHz	16QAM	133322	50RB#50	22.29
Band71	20MHz	16QAM	133322	50RB#0	22.26
Band71	20MHz	16QAM	133322	50RB#25	22.20
Band71	20MHz	16QAM	133322	100RB#0	22.07
Band71	20MHz	16QAM	133372	1RB#49	23.12
Band71	20MHz	16QAM	133372	1RB#0	22.83
Band71	20MHz	16QAM	133372	1RB#99	22.78
Band71	20MHz	16QAM	133372	50RB#0	22.22
Band71	20MHz	16QAM	133372	50RB#25	22.25



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Band71	20MHz	16QAM	133372	50RB#50	22.33
Band71	20MHz	16QAM	133372	100RB#0	22.25





<WLAN 2.4GHz Conducted Power>

Mode	Channel	Frequency (MHz)	Average Output Power (dBm) Ant0	Average Output Power (dBm) Ant1
IEEE 802.11b	1	2412	16.73	13.57
	6	2437	15.93	14.05
	11	2462	15.66	13.41
IEEE 802.11g	1	2412	15.95	11.30
	6	2437	15.03	11.83
	11	2462	14.92	11.52
IEEE 802.11n HT20	1	2412	15.70	12.26
	6	2437	14.81	10.79
	11	2462	16.24	12.23
IEEE 802.11n HT40	3	2422	14.33	12.38
	6	2437	13.76	11.30
	9	2452	12.95	10.52

<WLAN 5.2G Conducted Power>

Mode	Channel	Frequency (MHz)	Average Conducted Output Power(dBm)	Worst Case Test Rate Data
IEEE 802.11a	36	5180	14.51	MCS0
	40	5200	14.47	MCS0
	48	5240	11.72	MCS0
IEEE 802.11n HT20	36	5180	14.34	MCS0
	40	5200	14.15	MCS0
	48	5240	11.79	MCS0
IEEE 802.11n HT40	38	5190	13.89	MCS0
	46	5230	12.28	MCS0
IEEE 802.11ac VHT20	36	5180	14.37	MCS0
	40	5200	14.23	MCS0
	48	5240	11.55	MCS0
IEEE 802.11ac VHT40	38	5190	14.00	MCS0
	46	5230	12.10	MCS0
IEEE 802.11ac VHT80	42	5210	10.68	MCS0



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<WLAN 5.8GHz Conducted Power>

Mode	Channel	Frequency (MHz)	Conducted AVG output power (dBm)
802.11a	149	5745	11.21
	157	5785	10.66
	165	5825	9.58
802.11n(20MHz)	149	5745	10.52
	157	5785	10.40
	165	5825	9.51
802.11n(40MHz)	151	5755	10.22
	159	5795	9.85
802.11ac(20MHz)	149	5745	10.55
	157	5785	10.38
	165	5825	9.66
802.11ac(40MHz)	151	5755	10.26
	159	5795	9.91
802.11ac(80MHz)	155	5775	8.48



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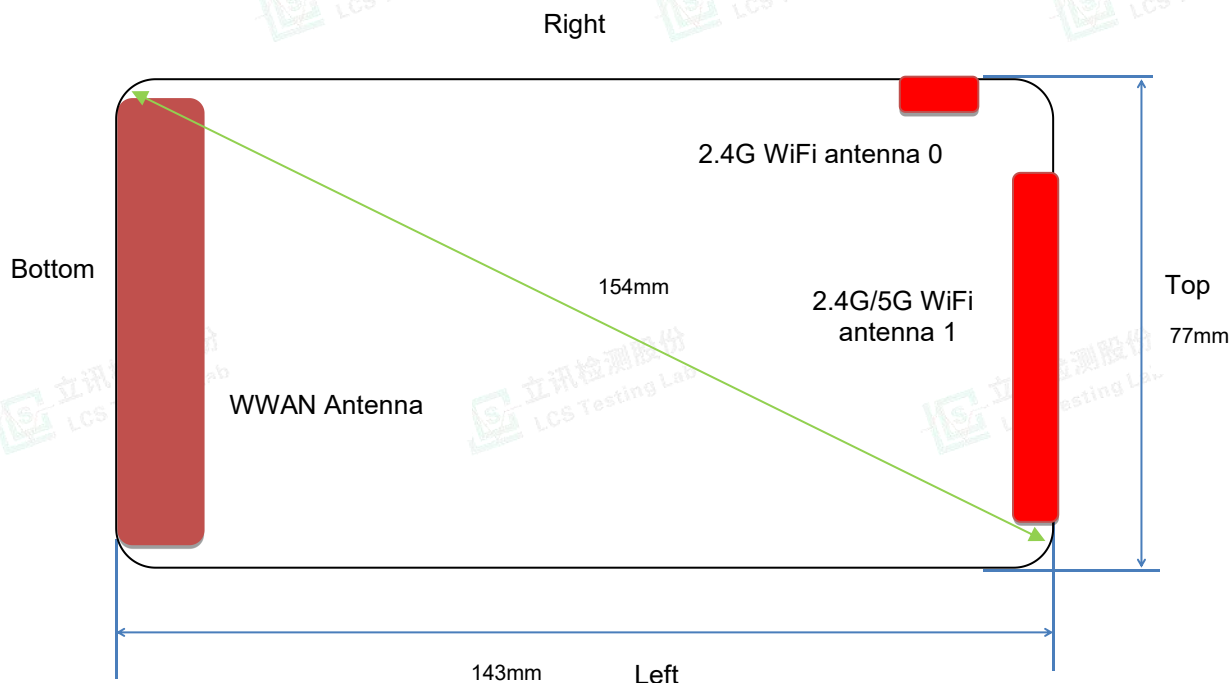
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4.2. Transmit Antennas and SAR Measurement Position



Rear View

Antenna information:

WWAN Antenna	UMTS/LTE TX/RX
WLAN Antenna	WLAN TX/RX

Note:

- 1). Per KDB648474 D04, 10-g extremity SAR is not required when Body-Worn mode 1-g reported SAR < 1.2 W/Kg.
- 2). According to the KDB941225 D06 Hot Spot SAR v02, the edges with less than 25 mm distance to the antennas need to be tested for SAR.
- 3). Per KDB 616217 D04, The antennas in tablets are typically located near the back (bottom) surface and/or along the edges of the devices; therefore, SAR evaluation is required for these configurations. Exposures from antennas through the front (top) surface of the displaysection of a full-size tablet, away from the edges, are generally limited to the user's hands.

Distance of The Antenna to the EUT surface and edge (mm)

Antennas	Front	Back	Top Side	Bottom Side	Left Side	Right Side
WWAN	<5	<5	124	<5	<5	<5
WLAN ANT0	<5	<5	<5	109	74	<5
WLAN Ant1	<5	<5	<5	131	<5	<5

Positions for SAR tests; Hotspot mode

Antennas	Front	Back	Top Side	Bottom Side	Left Side	Right Side
WWAN	Yes	Yes	No	Yes	Yes	Yes
WLAN ANT0	Yes	Yes	Yes	No	No	Yes
WLAN Ant1	Yes	Yes	Yes	No	Yes	Yes

General Note: Referring to KDB 941225 D06 v02, When the overall device length and width are $\geq 9\text{cm} \times 5\text{cm}$, the test distance is 0mm, SAR must be measured for all sides and surfaces with a transmitting antenna located with 25mm from that surface or edge.





4.3. SAR Measurement Results

The calculated SAR is obtained by the following formula:

$$\text{Reported SAR} = \text{Measured SAR} * 10^{(P_{\text{target}} - P_{\text{measured}})/10}$$

$$\text{Scaling factor} = 10^{(P_{\text{target}} - P_{\text{measured}})/10}$$

$$\text{Reported SAR} = \text{Measured SAR} * \text{Scaling factor}$$

Where

P_{target} is the power of manufacturing upper limit;

P_{measured} is the measured power;

Measured SAR is measured SAR at measured power which including power drift)

Reported SAR which including Power Drift and Scaling factor

Duty Cycle

Test Mode	Duty Cycle
UMTS	1:1
LTE	1:1
WLAN2450	1:1
WLAN5200	1:1
WLAN5800	1:1

4.3.1 SAR Results

SAR Values [WCDMA Band II]

SAR Values [WCDMA Band II]										
Ch.	Freq. (MHz)	Channel Type	Test Position	Conducte d Power (dBm)	Maximum Allowed Power (dBm)	PowerDrift(%)	ScalingFact or	SAR _{1-g} results(W/kg)		Graph
								Measure d	Reporte d	Result s
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
9538	1907.6	RMC	Front	25.19	25.50	0.29	1.074	0.537	0.577	
9538	1907.6	RMC	Rear	25.19	25.50	0.15	1.074	0.627	0.673	Plot 1
9538	1907.6	RMC	Left	25.19	25.50	-2.53	1.074	0.115	0.124	
9538	1907.6	RMC	Right	25.19	25.50	-0.44	1.074	0.106	0.114	
9538	1907.6	RMC	Bottom	25.19	25.50	0.16	1.074	0.123	0.132	

SAR Values [WCDMA Band IV]

SAR Values [WCDMA Band IV]										
Ch.	Freq. (MHz)	Channe l Type	Test Position	Conducte d Power (dBm)	Maximum Allowed Power (dBm)	PowerDrift(%)	ScalingFact or	SAR _{1-g} results(W/kg)		Graph
								Measure d	Reporte d	Result s
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
1513	1752.6	RMC	Front	25.04	25.50	-0.10	1.112	0.367	0.408	
1513	1752.6	RMC	Rear	25.04	25.50	0.75	1.112	0.457	0.508	Plot 2
1513	1752.6	RMC	Left	25.04	25.50	-2.08	1.112	0.085	0.094	
1513	1752.6	RMC	Right	25.04	25.50	0.48	1.112	0.079	0.088	
1513	1752.6	RMC	Bottom	25.04	25.50	0.11	1.112	0.095	0.106	



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**SAR Values [WCDMA Band V]**

Ch.	Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	PowerDrift(%)	ScalingFactor	SAR _{1-g} results(W/kg)		Graph
								Measured	Reported	Results
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
4132	826.4	RMC	Front	24.83	25.00	-0.54	1.040	0.209	0.217	
4132	826.4	RMC	Rear	24.83	25.00	0.05	1.040	0.319	0.332	Plot 3
4132	826.4	RMC	Left	24.83	25.00	-2.05	1.040	0.079	0.082	
4132	826.4	RMC	Right	24.83	25.00	-0.27	1.040	0.056	0.058	
4132	826.4	RMC	Bottom	24.83	25.00	-0.38	1.040	0.086	0.089	

Remark:

1. The value with blue color is the maximum SAR Value of each test band.
2. Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is optional for such test configuration(s).
3. RMC* - RMC 12.2kbps mode;

SAR Values [LTE Band 2]

Ch.	Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift(%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph
								Measured	Reported	Results
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
18700	1860.0	1RB	Front	24.52	25.00	0.21	1.117	0.458	0.512	
18700	1860.0	1RB	Rear	24.52	25.00	-1.33	1.117	0.558	0.623	Plot 4
18700	1860.0	1RB	Left	24.52	25.00	-4.52	1.117	0.269	0.300	
18700	1860.0	1RB	Right	24.52	25.00	0.48	1.117	0.278	0.310	
18700	1860.0	1RB	Bottom	24.52	25.00	0.11	1.117	0.199	0.222	
18900	1880.0	50%RB	Front	23.76	24.00	0.30	1.057	0.452	0.478	
18900	1880.0	50%RB	Rear	23.76	24.00	-0.22	1.057	0.551	0.582	
18900	1880.0	50%RB	Left	23.76	24.00	3.02	1.057	0.263	0.278	
18900	1880.0	50%RB	Right	23.76	24.00	-0.12	1.057	0.274	0.290	
18900	1880.0	50%RB	Bottom	23.76	24.00	0.40	1.057	0.196	0.207	

SAR Values [LTE Band 4]

Ch.	Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift(%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph
								Measured	Reported	Results
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
20300	1745.0	1RB	Front	24.76	25.00	0.49	1.057	0.763	0.806	Plot 5
20050	1720.0	1RB	Rear	24.76	25.00	-0.39	1.057	1.262	1.334	
20175	1732.5	1RB	Rear	25.10	25.50	-0.39	1.096	1.129	1.238	
20300	1745.0	1RB	Rear	24.98	25.50	0.31	1.127	1.105	1.246	
20300	1745.0	1RB	Left	24.76	25.00	-0.34	1.057	0.515	0.544	
20300	1745.0	1RB	Right	24.76	25.00	-0.55	1.057	0.522	0.552	
20300	1745.0	1RB	Bottom	24.76	25.00	-0.11	1.057	0.501	0.529	
20300	1745.0	50%RB	Front	23.97	24.00	0.45	1.007	0.758	0.763	
20300	1745.0	50%RB	Rear	23.97	24.00	-0.08	1.007	1.255	1.264	
20300	1745.0	50%RB	Left	23.97	24.00	-3.65	1.007	0.507	0.511	
20300	1745.0	50%RB	Right	23.97	24.00	-0.45	1.007	0.514	0.518	
20300	1745.0	50%RB	Bottom	23.97	24.00	0.02	1.007	0.496	0.499	



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**SAR Values [LTE Band 5]**

Ch.	Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift(%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph
								Measured	Reported	Results
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
20450	829.0	1RB	Front	24.55	25.00	0.51	1.109	0.254	0.282	
20450	829.0	1RB	Rear	24.55	25.00	0.00	1.109	0.314	0.348	Plot 6
20450	829.0	1RB	Left	24.55	25.00	0.02	1.109	0.018	0.020	
20450	829.0	1RB	Right	24.55	25.00	0.33	1.109	0.021	0.023	
20450	829.0	1RB	Bottom	24.55	25.00	0.33	1.109	0.011	0.012	
20450	829.0	50%RB	Front	23.66	24.00	0.35	1.081	0.247	0.267	
20450	829.0	50%RB	Rear	23.66	24.00	0.38	1.081	0.305	0.330	
20450	829.0	50%RB	Left	23.66	24.00	-4.52	1.081	0.014	0.015	
20450	829.0	50%RB	Right	23.66	24.00	0.12	1.081	0.015	0.016	
20450	829.0	50%RB	Bottom	23.66	24.00	-0.52	1.081	0.008	0.009	

SAR Values [LTE Band 7]

Ch.	Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift(%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph
								Measured	Reported	Results
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
20850	2510.0	1RB	Front	24.93	25.00	0.40	1.016	0.631	0.641	
20850	2510.0	1RB	Rear	24.93	25.00	-0.53	1.016	0.888	0.902	Plot 7
20850	2510.0	1RB	Rear	24.93	25.00	-0.53	1.016	0.855	0.869	
20850	2510.0	1RB	Rear	24.93	25.00	0.05	1.016	0.785	0.798	
20850	2510.0	1RB	Left	24.93	25.00	-0.05	1.016	0.465	0.473	
20850	2510.0	1RB	Right	24.93	25.00	0.50	1.016	0.488	0.496	
20850	2510.0	1RB	Bottom	24.93	25.00	0.52	1.016	0.344	0.350	
21100	2535.0	50%RB	Front	23.70	24.00	0.18	1.072	0.627	0.672	
21100	2535.0	50%RB	Rear	23.70	24.00	-0.24	1.072	0.879	0.942	
21100	2535.0	50%RB	Left	23.70	24.00	-0.03	1.072	0.460	0.493	
21100	2535.0	50%RB	Right	23.70	24.00	-0.16	1.072	0.481	0.515	
21100	2535.0	50%RB	Bottom	23.70	24.00	0.55	1.072	0.339	0.363	

SAR Values [LTE Band 12]

Ch.	Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift(%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph
								Measured	Reported	Results
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
23130	711.0	1RB	Front	24.54	25.00	0.26	1.112	0.427	0.475	
23130	711.0	1RB	Rear	24.54	25.00	-0.54	1.112	0.477	0.530	Plot 8
23130	711.0	1RB	Left	24.54	25.00	0.52	1.112	0.162	0.180	
23130	711.0	1RB	Right	24.54	25.00	-0.12	1.112	0.177	0.197	
23130	711.0	1RB	Bottom	24.54	25.00	0.36	1.112	0.150	0.167	
23060	704.0	50%RB	Front	23.62	24.00	-0.29	1.091	0.422	0.461	
23060	704.0	50%RB	Rear	23.62	24.00	-0.43	1.091	0.470	0.513	
23060	704.0	50%RB	Left	23.62	24.00	-4.44	1.091	0.157	0.171	
23060	704.0	50%RB	Right	23.62	24.00	0.37	1.091	0.176	0.192	
23060	704.0	50%RB	Bottom	23.62	24.00	0.08	1.091	0.144	0.157	



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**SAR Values [LTE Band 13]**

Ch.	Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift(%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph
								Measured	Reported	Results
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
23230	782.0	1RB	Front	24.70	25.50	-0.05	1.202	0.370	0.445	
23230	782.0	1RB	Rear	24.70	25.50	-0.40	1.202	0.450	0.541	Plot 9
23230	782.0	1RB	Left	24.70	25.50	0.08	1.202	0.126	0.151	
23230	782.0	1RB	Right	24.70	25.50	-0.16	1.202	0.132	0.159	
23230	782.0	1RB	Bottom	24.70	25.50	0.13	1.202	0.101	0.121	
23230	782.0	50%RB	Front	23.52	24.00	-0.06	1.117	0.359	0.401	
23230	782.0	50%RB	Rear	23.52	24.00	0.07	1.117	0.446	0.498	
23230	782.0	50%RB	Left	23.52	24.00	-4.71	1.117	0.121	0.135	
23230	782.0	50%RB	Right	23.52	24.00	0.26	1.117	0.127	0.142	
23230	782.0	50%RB	Bottom	23.52	24.00	-0.17	1.117	0.098	0.109	

SAR Values [LTE Band 14]

Ch.	Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift(%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph
								Measured	Reported	Results
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
23330	793.0	1RB	Front	24.67	25.00	0.32	1.079	0.325	0.351	
23330	793.0	1RB	Rear	24.67	25.00	-0.34	1.079	0.385	0.415	Plot 10
23330	793.0	1RB	Left	24.67	25.00	3.65	1.079	0.041	0.044	
23330	793.0	1RB	Right	24.67	25.00	0.16	1.079	0.045	0.049	
23330	793.0	1RB	Bottom	24.67	25.00	0.13	1.079	0.038	0.041	
23330	793.0	50%RB	Front	23.66	24.00	0.06	1.081	0.321	0.347	
23330	793.0	50%RB	Rear	23.66	24.00	0.41	1.081	0.378	0.409	
23330	793.0	50%RB	Left	23.66	24.00	-2.98	1.081	0.038	0.041	
23330	793.0	50%RB	Right	23.66	24.00	0.04	1.081	0.040	0.043	
23330	793.0	50%RB	Bottom	23.66	24.00	0.27	1.081	0.035	0.038	

SAR Values [LTE Band 25]

Ch.	Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift(%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph
								Measured	Reported	Results
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
26140	1850.7	1RB	Front	24.54	25.00	0.00	1.112	0.427	0.475	
26140	1850.7	1RB	Rear	24.54	25.00	-0.26	1.112	0.497	0.553	Plot 11
26140	1850.7	1RB	Left	24.54	25.00	-3.65	1.112	0.110	0.122	
26140	1850.7	1RB	Right	24.54	25.00	-0.03	1.112	0.117	0.130	
26140	1850.7	1RB	Bottom	24.54	25.00	0.44	1.112	0.100	0.111	
26590	1914.3	50%RB	Front	23.58	24.00	-0.25	1.102	0.423	0.466	
26590	1914.3	50%RB	Rear	23.58	24.00	0.55	1.102	0.492	0.542	
26590	1914.3	50%RB	Left	23.58	24.00	1.16	1.102	0.107	0.118	
26590	1914.3	50%RB	Right	23.58	24.00	-0.19	1.102	0.112	0.123	
26590	1914.3	50%RB	Bottom	23.58	24.00	-0.25	1.102	0.089	0.098	



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Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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**SAR Values [LTE Band 26] (814-824)**

Ch.	Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift(%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph
								Measured	Reported	Results
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
26740	819.0	1RB	Front	24.62	25.00	-0.30	1.091	0.214	0.234	
26740	819.0	1RB	Rear	24.62	25.00	1.12	1.091	0.233	0.254	Plot 12
26740	819.0	1RB	Left	24.62	25.00	-3.32	1.091	0.143	0.156	
26740	819.0	1RB	Right	24.62	25.00	0.21	1.091	0.152	0.166	
26740	819.0	1RB	Bottom	24.62	25.00	-0.49	1.091	0.122	0.133	
26740	819.0	50%RB	Front	23.67	24.00	0.01	1.079	0.207	0.223	
26740	819.0	50%RB	Rear	23.67	24.00	-0.27	1.079	0.228	0.246	
26740	819.0	50%RB	Left	23.67	24.00	0.01	1.079	0.140	0.151	
26740	819.0	50%RB	Right	23.67	24.00	-0.08	1.079	0.147	0.159	
26740	819.0	50%RB	Bottom	23.67	24.00	0.50	1.079	0.116	0.125	

SAR Values [LTE Band 26] (824-849)

Ch.	Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift(%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph
								Measured	Reported	Results
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
26865	831.5	1RB	Front	24.61	25.00	0.28	1.094	0.196	0.214	
26865	831.5	1RB	Rear	24.61	25.00	-1.03	1.094	0.212	0.232	
26865	831.5	1RB	Left	24.61	25.00	3.62	1.094	0.124	0.136	
26865	831.5	1RB	Right	24.61	25.00	-0.09	1.094	0.132	0.144	
26865	831.5	1RB	Bottom	24.61	25.00	0.36	1.094	0.101	0.110	
26615	814.7	50%RB	Front	23.85	24.00	0.10	1.035	0.183	0.189	
26615	814.7	50%RB	Rear	23.85	24.00	0.45	1.035	0.203	0.210	
26615	814.7	50%RB	Left	23.85	24.00	-4.85	1.035	0.112	0.116	
26615	814.7	50%RB	Right	23.85	24.00	0.21	1.035	0.126	0.130	
26615	814.7	50%RB	Bottom	23.85	24.00	-0.47	1.035	0.096	0.099	

SAR Values [LTE Band 38]

Ch.	Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift(%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph
								Measured	Reported	Results
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
38000	2595.0	1RB	Front	24.04	24.50	0.31	1.112	0.267	0.297	
38000	2595.0	1RB	Rear	24.04	24.50	-0.32	1.112	0.367	0.408	Plot 13
38000	2595.0	1RB	Left	24.04	24.50	-4.78	1.112	0.227	0.252	
38000	2595.0	1RB	Right	24.04	24.50	0.18	1.112	0.231	0.257	
38150	2610.0	1RB	Bottom	24.04	24.50	-0.55	1.112	0.205	0.228	
38150	2610.0	50%RB	Front	23.31	23.50	-0.49	1.045	0.264	0.276	
38150	2610.0	50%RB	Rear	23.31	23.50	-0.55	1.045	0.363	0.379	
38150	2610.0	50%RB	Left	23.31	23.50	0.20	1.045	0.214	0.224	
38150	2610.0	50%RB	Right	23.31	23.50	0.41	1.045	0.218	0.228	
38150	2610.0	50%RB	Bottom	23.31	23.50	0.52	1.045	0.200	0.209	



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Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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**SAR Values [LTE Band 41]**

Ch.	Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift(%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph
								Measured	Reported	Results
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
38150	2680.0	1RB	Front	24.50	24.50	0.51	1.000	0.300	0.300	
38150	2680.0	1RB	Rear	24.50	24.50	-1.28	1.000	0.380	0.380	Plot 14
38150	2680.0	1RB	Left	24.50	24.50	-3.52	1.000	0.255	0.255	
38150	2680.0	1RB	Right	24.50	24.50	-0.08	1.000	0.264	0.264	
38150	2680.0	1RB	Bottom	24.50	24.50	0.09	1.000	0.233	0.233	
38150	2680.0	50%RB	Front	23.75	24.00	0.19	1.059	0.292	0.309	
38150	2680.0	50%RB	Rear	23.75	24.00	0.25	1.059	0.374	0.396	
38150	2680.0	50%RB	Left	23.75	24.00	4.52	1.059	0.250	0.265	
38150	2680.0	50%RB	Right	23.75	24.00	-0.18	1.059	0.259	0.274	
38150	2680.0	50%RB	Bottom	23.75	24.00	-0.27	1.059	0.227	0.240	

SAR Values [LTE Band 66]

Ch.	Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift(%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph
								Measured	Reported	Results
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
132572	1770.0	1RB	Front	24.69	25.00	0.26	1.074	0.092	0.099	
132572	1770.0	1RB	Rear	24.69	25.00	-1.85	1.074	0.202	0.217	Plot 15
132572	1770.0	1RB	Left	24.69	25.00	2.05	1.074	0.086	0.092	
132572	1770.0	1RB	Right	24.69	25.00	0.47	1.074	0.095	0.102	
132572	1770.0	1RB	Bottom	24.69	25.00	-0.47	1.074	0.075	0.081	
132572	1770.0	50%RB	Front	24.03	24.50	0.35	1.114	0.089	0.099	
132572	1770.0	50%RB	Rear	24.03	24.50	-0.46	1.114	0.197	0.220	
132572	1770.0	50%RB	Left	24.03	24.50	-3.65	1.114	0.084	0.094	
132572	1770.0	50%RB	Right	24.03	24.50	-0.14	1.114	0.091	0.101	
132572	1770.0	50%RB	Bottom	24.03	24.50	-0.01	1.114	0.072	0.080	

SAR Values [LTE Band 71]

Ch.	Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift(%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph
								Measured	Reported	Results
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
133222	673.0	1RB	Front	24.03	24.50	0.48	1.114	0.125	0.139	
133222	673.0	1RB	Rear	24.03	24.50	-0.14	1.114	0.225	0.251	Plot 16
133222	673.0	1RB	Left	24.03	24.50	-3.95	1.114	0.011	0.012	
133222	673.0	1RB	Right	24.03	24.50	0.53	1.114	0.015	0.017	
133222	673.0	1RB	Bottom	24.03	24.50	-0.24	1.114	0.007	0.008	
133222	673.0	50%RB	Front	23.30	23.50	0.04	1.047	0.120	0.126	
133222	673.0	50%RB	Rear	23.30	23.50	0.43	1.047	0.216	0.226	
133222	673.0	50%RB	Left	23.30	23.50	0.05	1.047	0.008	0.008	
133222	673.0	50%RB	Right	23.30	23.50	0.23	1.047	0.012	0.013	
133222	673.0	50%RB	Bottom	23.30	23.50	0.12	1.047	0.005	0.005	



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**SAR Values [WIFI 2.4G] Ant0**

Ch.	Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift(%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph
								Measured	Reported	Results
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
1	2412	802.11b	Front	16.73	17.00	-0.14	1.064	0.154	0.164	Plot 17
1	2412	802.11b	Rear	16.73	17.00	0.02	1.064	0.113	0.120	
1	2412	802.11b	Right	16.73	17.00	0.11	1.064	0.102	0.109	
1	2412	802.11b	Top	16.73	17.00	-0.16	1.064	0.099	0.105	

SAR Values [WIFI 2.4G] Ant1

Ch.	Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift(%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph
								Measured	Reported	Results
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
6	2437	802.11b	Front	14.05	14.50	-0.56	1.109	0.112	0.124	
6	2437	802.11b	Rear	14.05	14.50	0.26	1.109	0.096	0.106	
6	2437	802.11b	Left	14.05	14.50	-4.52	1.109	0.056	0.062	
6	2437	802.11b	Right	14.05	14.50	0.36	1.109	0.079	0.088	
6	2437	802.11b	Top	14.05	14.50	-0.02	1.109	0.082	0.091	

SAR Values [WIFI 5.2G] Ant1

Ch.	Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift(%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph
								Measured	Reported	Results
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
36	5180	802.11a	Front	14.51	15.00	1.79	1.119	0.012	0.013	Plot 18
36	5180	802.11a	Rear	14.51	15.00	0.03	1.119	0.008	0.009	
36	5180	802.11a	Left	14.51	15.00	-0.63	1.119	0.002	0.002	
36	5180	802.11a	Right	14.51	15.00	0.02	1.119	0.004	0.004	
36	5180	802.11a	Top	14.51	15.00	-0.11	1.119	0.006	0.007	

SAR Values [WIFI 5.8G] Ant1

Ch.	Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift(%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph
								Measured	Reported	Results
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
149	5745	802.11a	Front	11.21	11.50	-1.30	1.069	0.005	0.005	Plot 19
149	5745	802.11a	Rear	11.21	11.50	0.12	1.069	0.003	0.003	
149	5745	802.11a	Left	11.21	11.50	3.52	1.069	0.001	0.001	
149	5745	802.11a	Right	11.21	11.50	-0.09	1.069	0.001	0.001	
149	5745	802.11a	Top	11.21	11.50	0.02	1.069	0.002	0.002	

Remark:

1. The value with blue color is the maximum SAR Value of each test band.
2. Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is optional for such test configuration(s).
3. When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. 19 If the highest reported SAR for a test configuration is $\leq$



Shenzhen LCS Compliance Testing Laboratory Ltd.

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1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

4. When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, each band is tested independently for SAR.



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4.4. Simultaneous TX SAR Considerations

4.4.1 Introduction

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. The device has 4 antennas, WWAN main antenna, WWAN diversity antenna(RX only), NFC antenna(RX only) and WiFi/BT antenna supports 2.4Wi-Fi. The 2 TX antennas can always transmit simultaneously. The work mode combination is showed as below table.;

Application Simultaneous Transmission information:

Combination No.	Mode
1	WWAN+WIFI

4.4.2 Evaluation of Simultaneous SAR

Body Hotspot Exposure Conditions

Simultaneous transmission SAR for WiFi and UMTS

Test Position	UMTS Band II Reported SAR1-g (W/kg)	UMTS Band IV Reported SAR1-g (W/kg)	UMTS Band V Reported SAR1-g (W/kg)	WiFi2.4G Reported SAR1-g (W/kg) Ant0	WiFi2.4G Reported SAR1-g (W/kg) Ant1	WiFi5.2G Reported SAR1-g (W/kg) Ant1	WiFi5.8G Reported SAR1-g (W/kg) Ant1	MAX. Σ SAR1-g (W/kg)	SAR1-g Limit (W/kg)	Peak location separation ratio	Simut Meas. Required
Front	0.577	0.408	0.217	0.164	0.124	0.013	0.005	0.865	1.600	no	no
Rear	0.673	0.508	0.332	0.120	0.106	0.009	0.003	0.899	1.600	no	no
Left	0.124	0.094	0.082	/	0.062	0.002	0.001	0.186	1.600	no	no
Right	0.114	0.088	0.058	0.109	0.088	0.004	0.001	0.311	1.600	no	no
Bottom	0.132	0.106	0.089	/	/	/	/	0.132	1.600	no	no
Top	/	/	/	0.105	0.091	0.007	0.002	0.196	1.600	no	no





SAR for WiFi and LTE

Reported SAR1-g(W/kg)	Test Position					
	Front	Rear	Left	Right	Bottom	Top
LTE Band2	0.512	0.623	0.300	0.310	0.222	/
LTE Band4	0.806	1.334	0.544	0.552	0.529	/
LTE Band5	0.282	0.348	0.020	0.023	0.012	/
LTE Band7	0.641	0.902	0.473	0.496	0.350	/
LTE Band12	0.475	0.530	0.180	0.197	0.167	/
LTE Band13	0.445	0.541	0.151	0.159	0.121	/
LTE Band14	0.351	0.415	0.044	0.049	0.041	/
LTE Band25	0.475	0.553	0.122	0.130	0.111	/
LTE Band26	0.234	0.254	0.156	0.166	0.133	/
LTE Band38	0.297	0.408	0.252	0.257	0.228	/
LTE Band41	0.300	0.380	0.255	0.264	0.233	/
LTE Band66	0.099	0.217	0.092	0.102	0.081	/
LTE Band71	0.139	0.251	0.012	0.017	0.008	/
WiFi2.4G Ant0	0.164	0.120	/	0.109	/	0.105
WiFi2.4G Ant1	0.124	0.106	0.062	0.088	/	0.091
WiFi5.2G Ant1	0.013	0.009	0.002	0.004	/	0.007
WiFi5.8G Ant1	0.005	0.003	0.001	0.001	/	0.002
MAX. Σ SAR1-g (W/kg)	1.094	1.560	0.606	0.749	0.529	0.196
SAR1-g Limit (W/kg)	1.600	1.600	1.600	1.600	1.600	1.600
Peak location separation ratio	no	no	no	no	no	no
Simut Meas. Required	no	no	no	no	no	no

Note:

1. The value with **block** color is the maximum values of standalone
2. The value with blue color is the maximum values of Σ SAR1-g





4.5. SAR Measurement Variability

According to KDB865664, Repeated measurements are required only when the measured SAR is ≥ 0.80 W/kg. If the measured SAR value of the initial repeated measurement is < 1.45 W/kg with $\leq 20\%$ variation, only one repeated measurement is required to reaffirm that the results are not expected to have substantial variations, which may introduce significant compliance concerns. A second repeated measurement is required only if the measured result for the initial repeated measurement is within 10% of the SAR limit and vary by more than 20%, which are often related to device and measurement setup difficulties. The following procedures are applied to determine if repeated measurements are required. The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.¹⁹ The repeated measurement results must be clearly identified in the SAR report. All measured SAR, including the repeated results, must be considered to determine compliance and for reporting according to KDB 690783. Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.

- 3) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 4) 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).
- 5) 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) 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 .

Frequency Band (MHz)	Air Interface	RF Exposure Configuration	Test Position	Repeated SAR (yes/no)	Highest Measured SAR _{1-g} (W/Kg)	First Repeated	
						Measured	Largest to Smallest SAR Ratio
						SAR _{1-g} (W/Kg)	
750	LTE Band 12	Standalone	Body-Rear	no	0.477	n/a	n/a
	LTE Band 13	Standalone	Body-Rear	no	0.450	n/a	n/a
	LTE Band 14	Standalone	Body-Rear	no	0.385	n/a	n/a
	LTE Band 71	Standalone	Body-Rear	no	0.225	n/a	n/a
850	WCDMA Band V	Standalone	Body-Rear	no	0.319	n/a	n/a
	LTE Band 5	Standalone	Body-Rear	no	0.314	n/a	n/a
	LTE Band 26	Standalone	Body-Rear	no	0.233	n/a	n/a
1800	WCDMA Band IV	Standalone	Body-Rear	no	0.457	n/a	n/a
	LTE Band 4	Standalone	Body-Rear	no	1.262	1.160	1.088
	LTE Band 66	Standalone	Body-Rear	no	0.202	n/a	n/a
1900	WCDMA Band II	Standalone	Body-Rear	no	0.627	n/a	n/a
	LTE Band 2	Standalone	Body-Front	no	0.558	n/a	n/a
	LTE Band 25	Standalone	Body-Rear	no	0.497	n/a	n/a
2450	WIFI2.4G	Standalone	Body-Front	no	0.154	n/a	n/a
2600	LTE Band 7	Standalone	Body-Rear	no	0.888	0.855	1.039
	LTE Band 38	Standalone	Body-Rear	no	0.367	n/a	n/a
	LTE Band 41	Standalone	Body-Rear	no	0.380	n/a	n/a
5200	WIFI5.2G	Standalone	Body-Front	no	0.012	n/a	n/a
5800	WIFI5.8G	Standalone	Body-Front	no	0.005	n/a	n/a

Remark:

1. Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is not > 1.20 or 3 (1-g or 10-g respectively)



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4.6. General description of test procedures

1. Test positions as described in the tables above are in accordance with the specified test standard.
2. Tests in body position were performed in that configuration, which generates the highest time based averaged output power (see conducted power results).
3. According to IEEE 1528 the SAR test shall be performed at middle channel. Testing of top and bottom channel is optional.
4. According to KDB 447498 D01 testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
5. IEEE 1528-2003 require the middle channel to be tested first. This generally applies to wireless devices that are designed to operate in technologies with tight tolerances for maximum output power variations across channels in the band. When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.
6. When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements.¹⁹ If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.
7. When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, each band is tested independently for SAR.

4.7. Measurement Uncertainty (450MHz-6GHz)

Not required as SAR measurement uncertainty analysis is required in SAR reports only when the highest measured SAR in a frequency band is ≥ 1.5 W/kg for 1-g SAR according to KDB865664D01.



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4.8. System Check Results

Test mode:750MHz(Head)

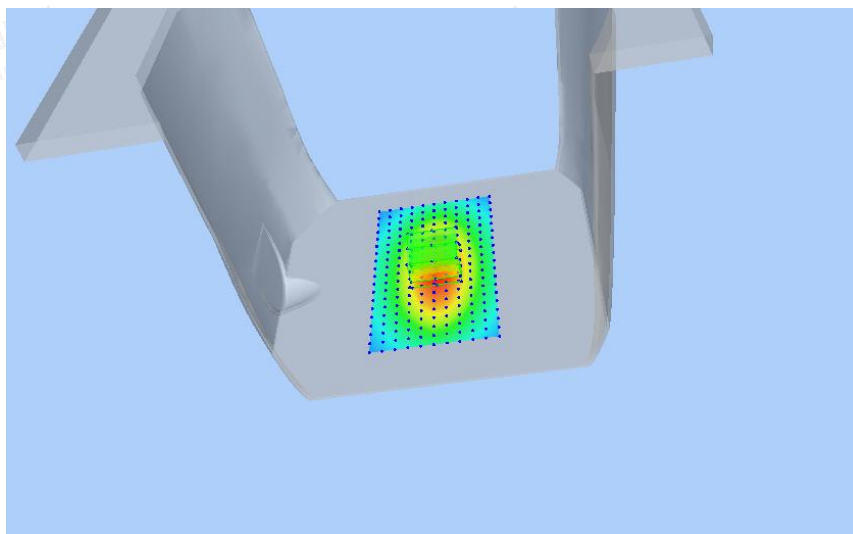
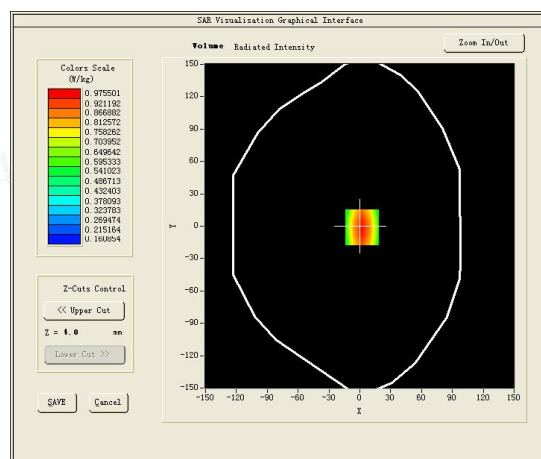
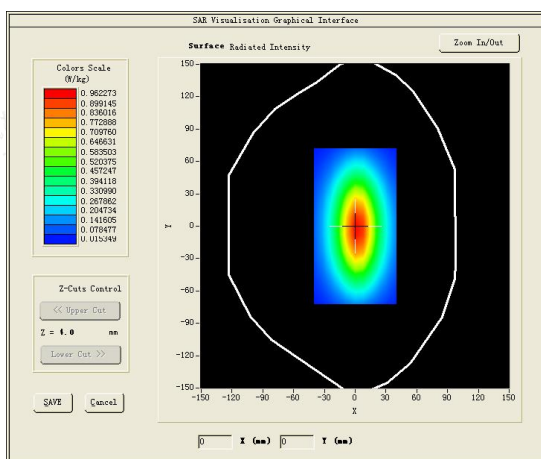
Product Description:Validation

Model:Dipole SID750

E-Field Probe: SSE2(SN 25/22 EPGO376)

Test Date: July 25, 2023

Medium(liquid type)	HSL_750
Frequency (MHz)	750.0000
Relative permittivity (real part)	43.56
Conductivity (S/m)	0.87
Input power	100mW
Crest Factor	1.0
Conversion Factor	1.69
Variation (%)	-4.520000
SAR 10g (W/Kg)	0.560452
SAR 1g (W/Kg)	0.827413
SURFACE SAR	VOLUME SAR



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Test mode:835MHz(Head)

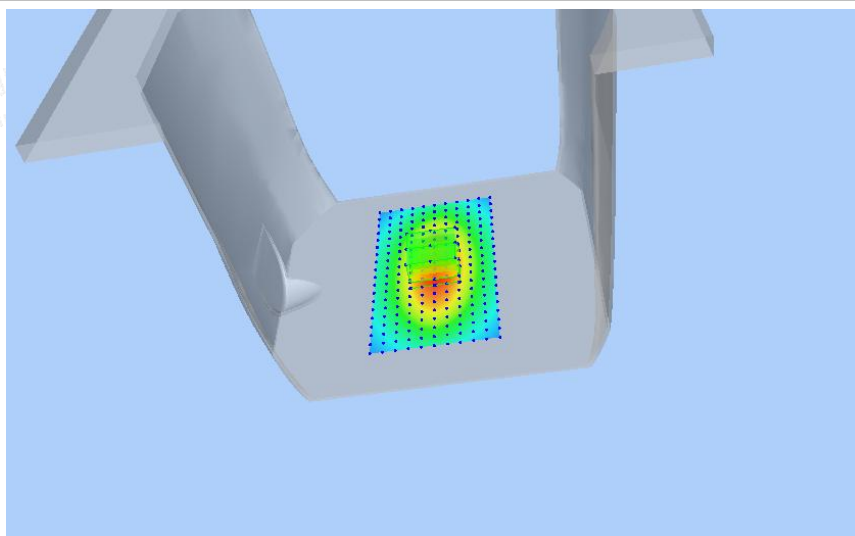
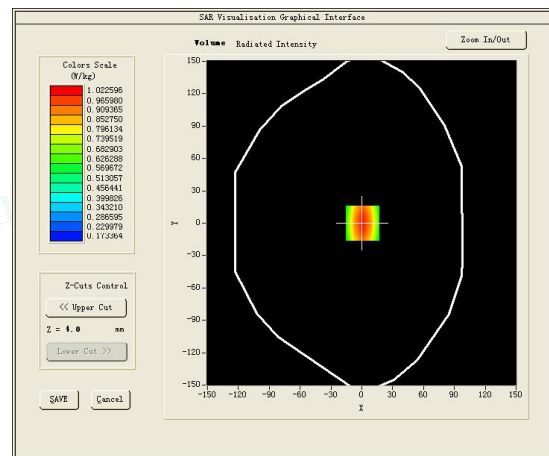
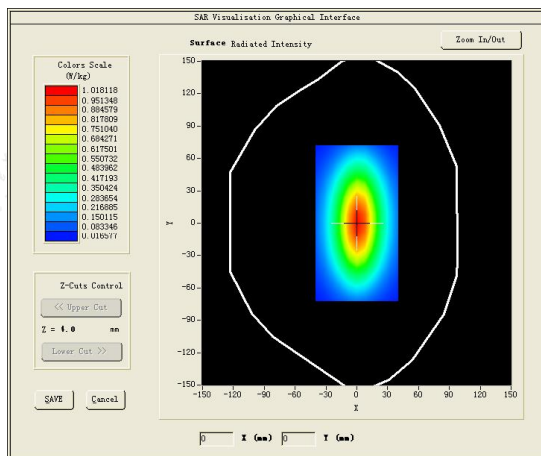
Product Description:Validation

Model:Dipole SID835

E-Field Probe:SSE2(SN 25/22 EPGO376)

Test Date: July 26, 2023

Medium(liquid type)	HSL 835
Frequency (MHz)	835.0000
Relative permittivity (real part)	42.98
Conductivity (S/m)	0.89
Input power	100mW
Crest Factor	1.0
Conversion Factor	1.75
Variation (%)	0.330000
SAR 10g (W/Kg)	0.638132
SAR 1g (W/Kg)	0.951488
SURFACE SAR	VOLUME SAR



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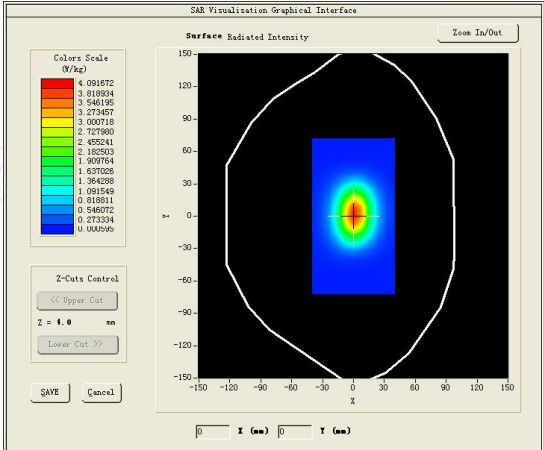
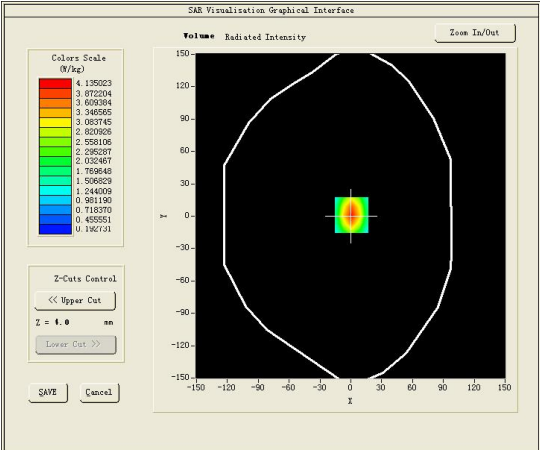
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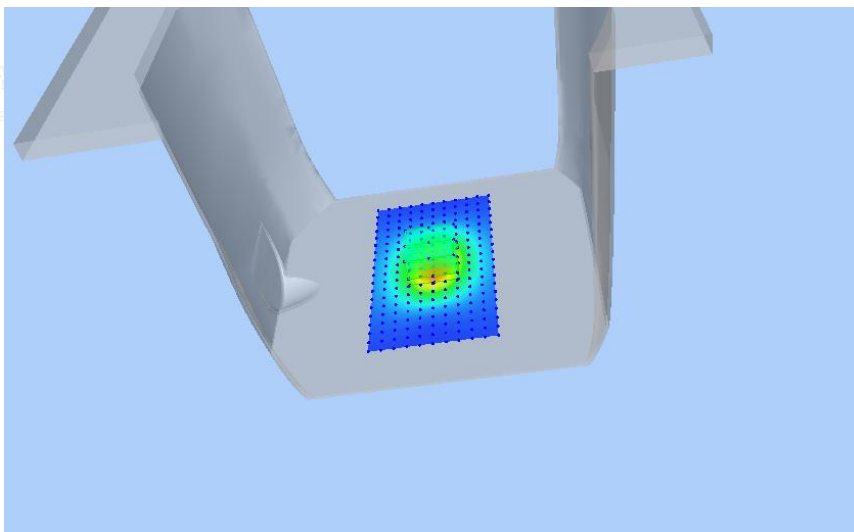
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Test mode:1800MHz(Head)
Product Description:Validation
Model :Dipole SID1800
E-Field Probe:SSE2(SN 25/22 EPGO376)
Test Date: July 28, 2023

Medium(liquid type)	HSL_1800
Frequency (MHz)	1800.0000
Relative permittivity (real part)	39.42
Conductivity (S/m)	1.43
Input power	100mW
Crest Factor	1.0
Conversion Factor	2.09
Variation (%)	1.740000
SAR 10g (W/Kg)	2.042283
SAR 1g (W/Kg)	3.833085
SURFACE SAR	VOLUME SAR
	





Test mode:1900MHz(Head)

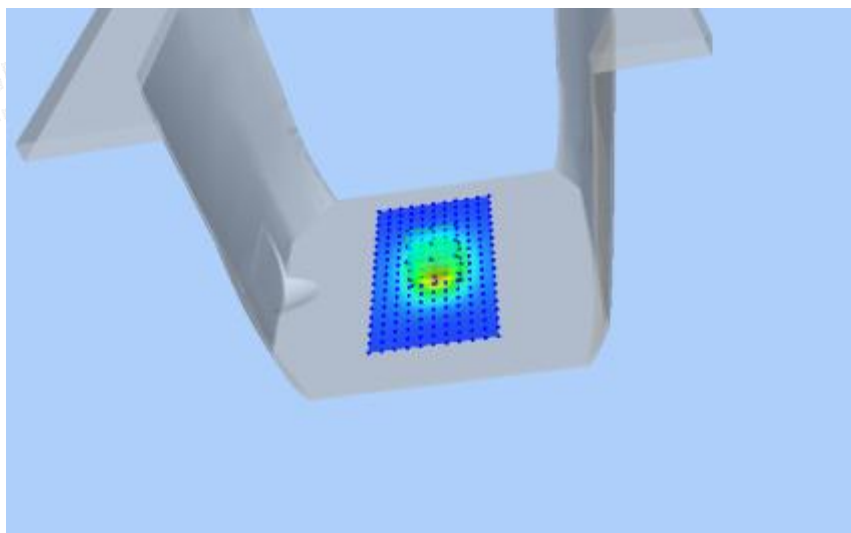
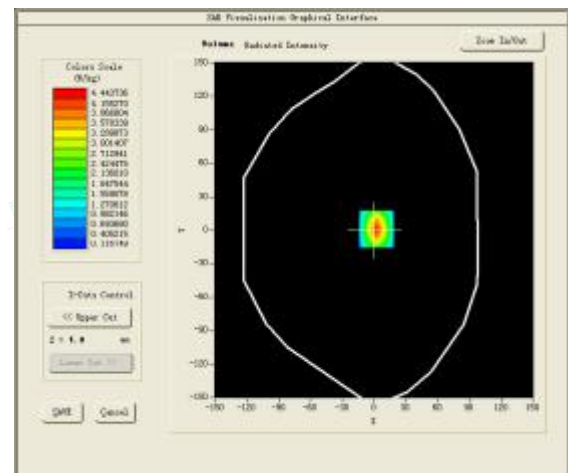
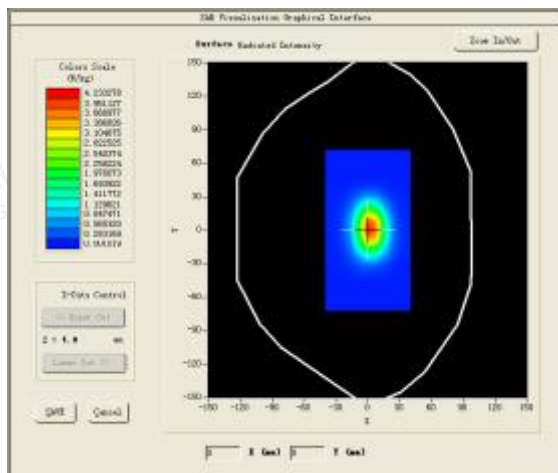
Product Description:Validation

Model :Dipole SID1900

E-Field Probe:SSE2(SN 25/22 EPGO376)

Test Date: July 31, 2023

Medium(liquid type)	HSL_1900
Frequency (MHz)	1900.0000
Relative permittivity (real part)	39.63
Conductivity (S/m)	1.42
Input power	100mW
Crest Factor	1.0
Conversion Factor	2.14
Variation (%)	-2.200000
SAR 10g (W/Kg)	2.090260
SAR 1g (W/Kg)	3.974162
SURFACE SAR	VOLUME SAR



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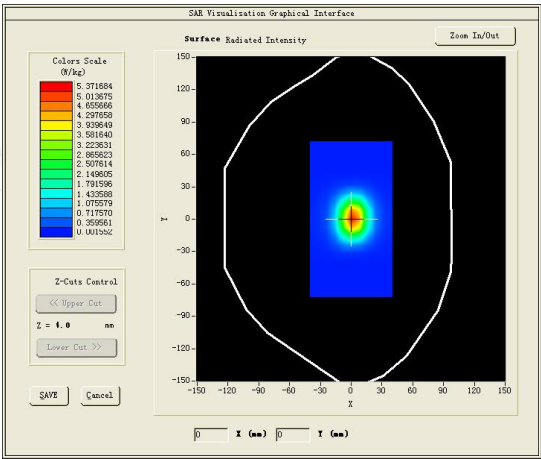
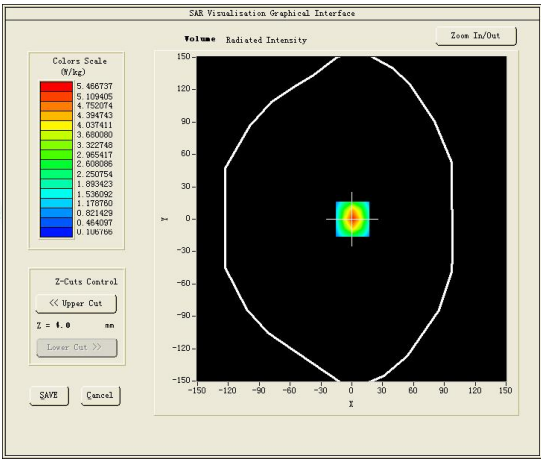
Test mode:2450MHz(Head)

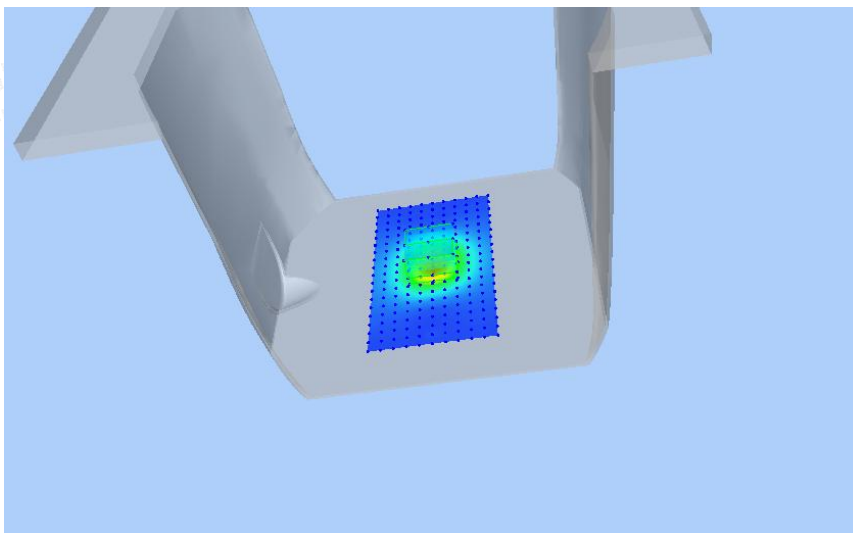
Product Description:Validation

Model:Dipole SID2450

E-Field Probe:SSE2(SN 25/22 EPGO376)

Test Date: August 02, 2023

Medium(liquid type)	HSL_2450
Frequency (MHz)	2450.0000
Relative permittivity (real part)	40.63
Conductivity (S/m)	1.77
Input power	100mW
Crest Factor	1.0
Conversion Factor	2.60
Variation (%)	4.850000
SAR 10g (W/Kg)	2.557150
SAR 1g (W/Kg)	5.435144
SURFACE SAR	VOLUME SAR
	



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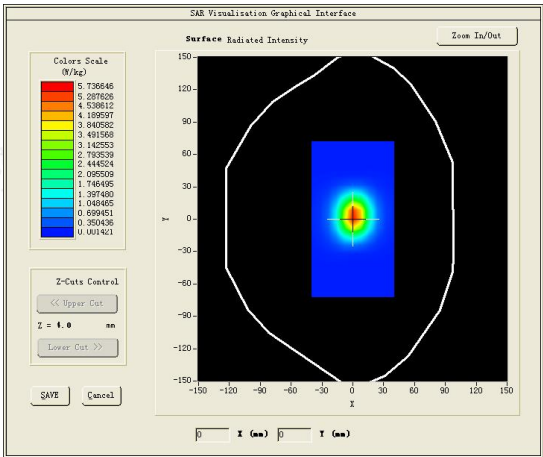
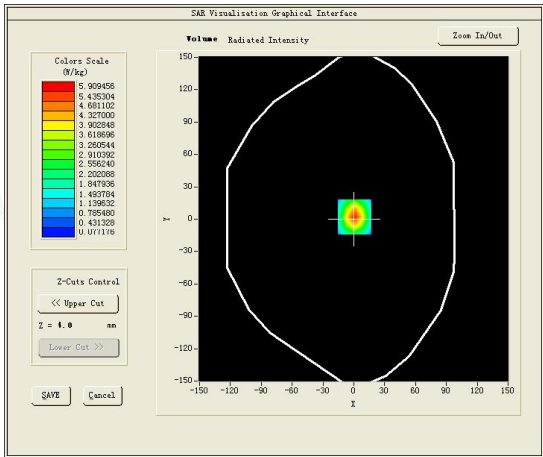
Test mode:2600MHz

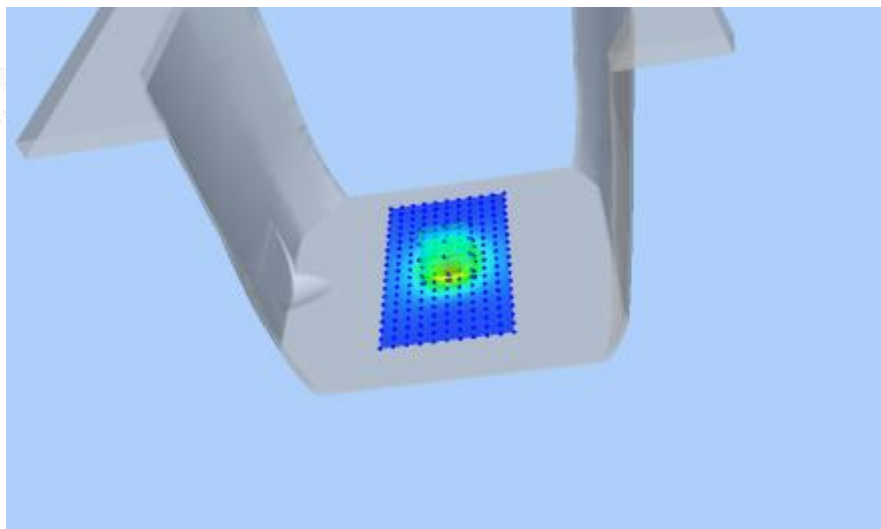
Product Description:Validation

Model:Dipole SID2600

E-Field Probe: SSE2(SN 25/22 EPGO376)

Test Date: August 04, 2023

Medium(liquid type)	HSL_2600
Frequency (MHz)	2600.0000
Relative permittivity (real part)	38.52
Conductivity (S/m)	1.98
Input power	100mW
Crest Factor	1.0
Conversion Factor	2.39
Variation (%)	0.030000
SAR 10g (W/Kg)	2.274235
SAR 1g (W/Kg)	5.733023
SURFACE SAR	VOLUME SAR
	



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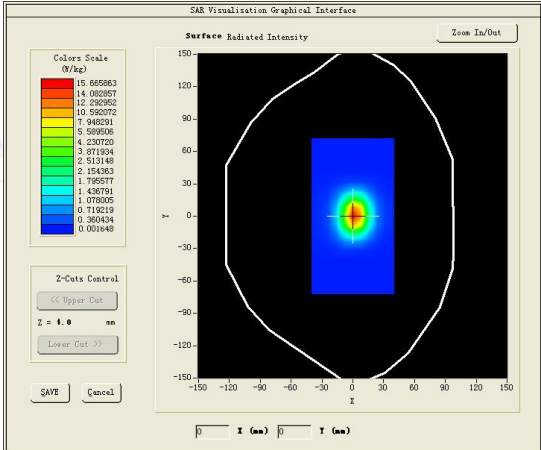
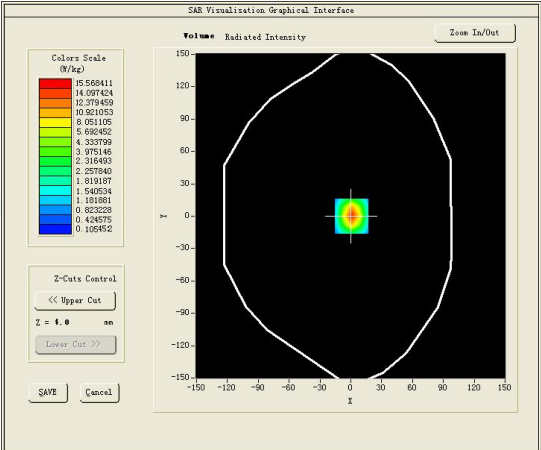
Test mode:5200MHz(Head)

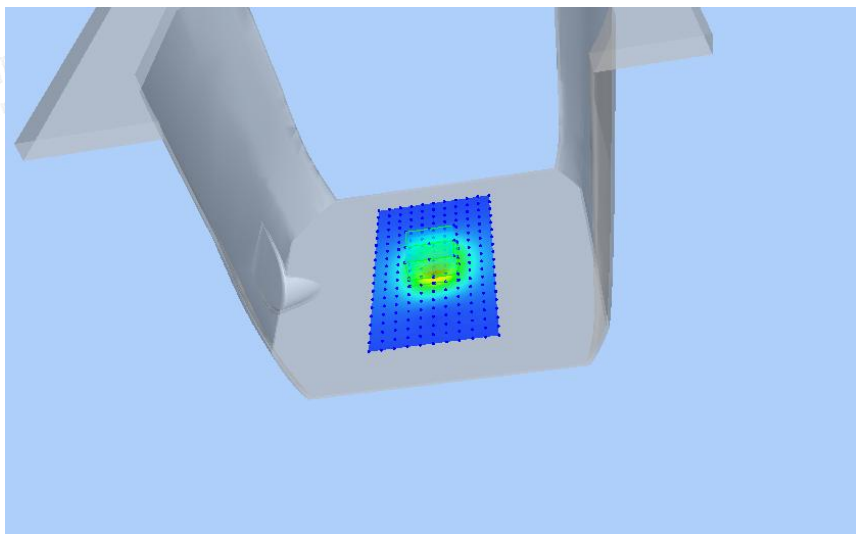
Product Description:Validation

Model:Dipole SWG5500

E-Field Probe: SSE2(SN 25/22 EPG0376)

Test Date: August 08, 2023

Medium(liquid type)	HSL_5000
Frequency (MHz)	5200.0000
Relative permittivity (real part)	35.74
Conductivity (S/m)	4.69
Input power	100mW
Crest Factor	1.0
Conversion Factor	1.85
Variation (%)	-3.690000
SAR 10g (W/Kg)	5.900210
SAR 1g (W/Kg)	17.218034
SURFACE SAR	VOLUME SAR
	



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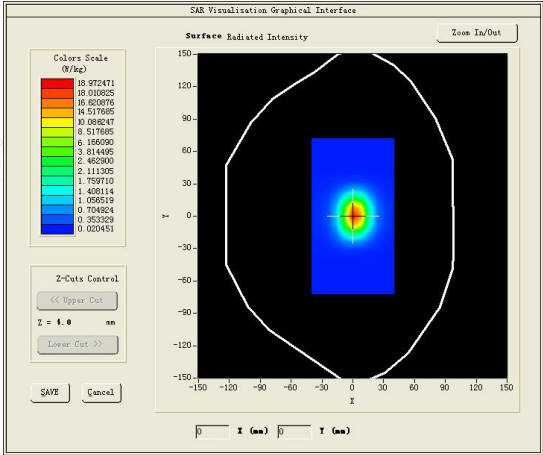
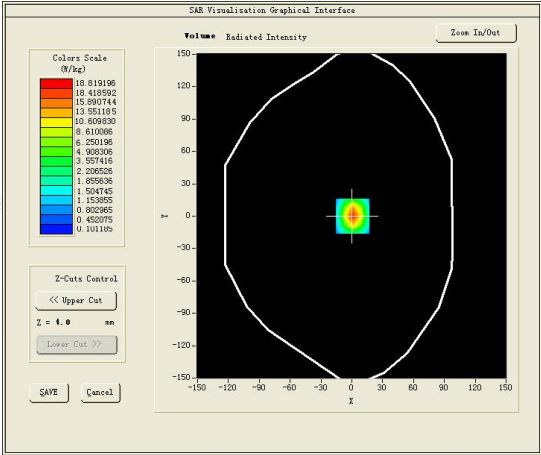
Test mode:5800MHz(Head)

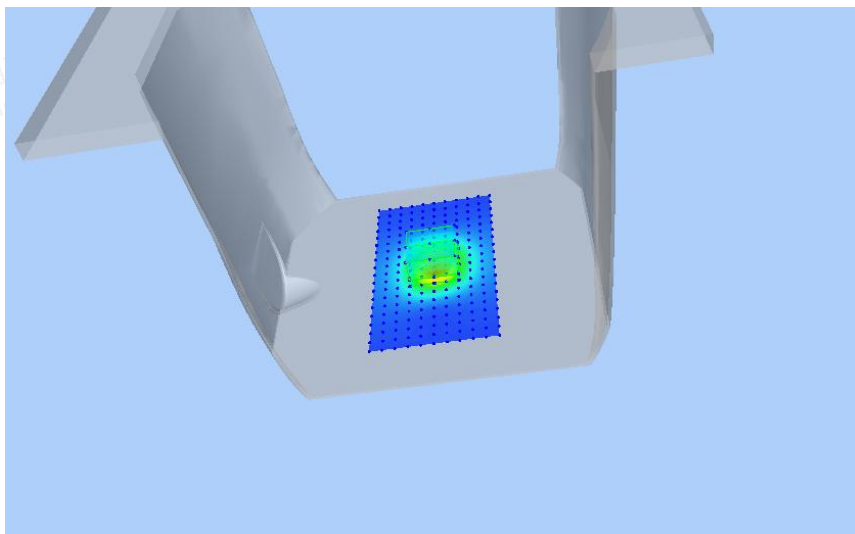
Product Description:Validation

Model:Dipole SWG5500

E-Field Probe: SSE2(SN 25/22 EPG0376)

Test Date: August 13, 2023

Medium(liquid type)	HSL_5000
Frequency (MHz)	5800.0000
Relative permittivity (real part)	36.42
Conductivity (S/m)	5.25
Input power	100mW
Crest Factor	1.0
Conversion Factor	2.01
Variation (%)	0.850000
SAR 10g (W/Kg)	6.152085
SAR 1g (W/Kg)	18.249250
SURFACE SAR	VOLUME SAR
	



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4.9. SAR Test Graph Results

SAR plots for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination

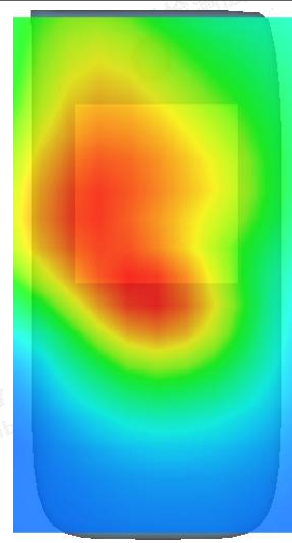
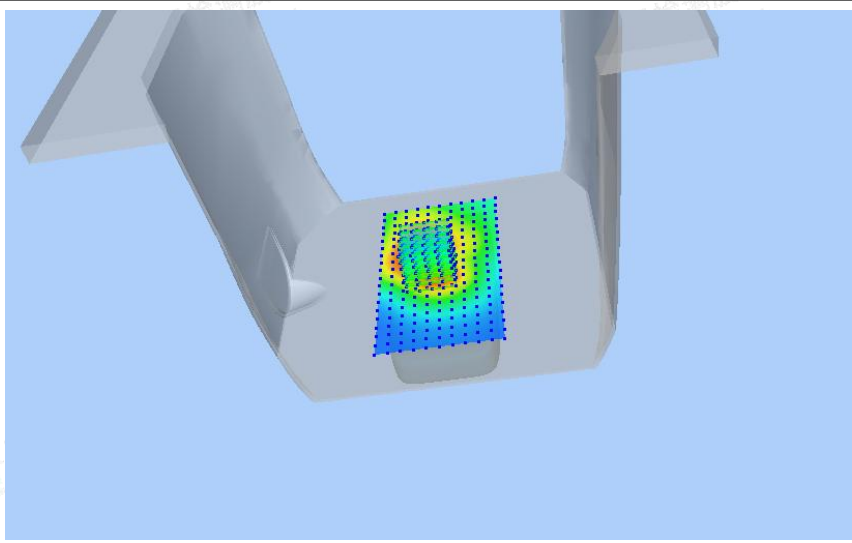
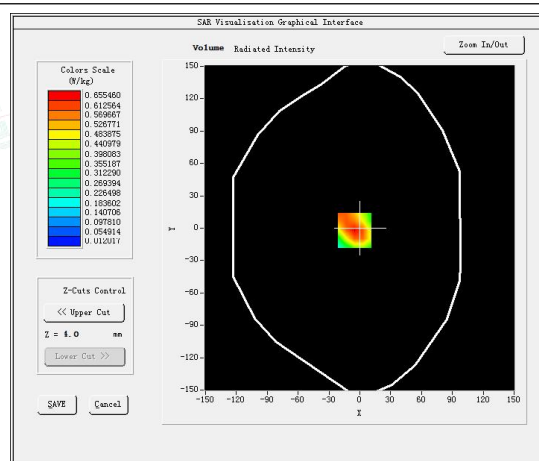
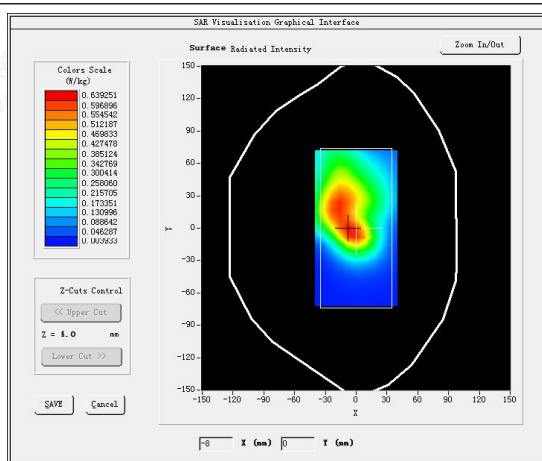
#1 Test Mode: WCDMA Band II, High channel(Body Rear Side)

Product Description: Portable 4G LTE Router

Model: GL-E750V2C4

Test Date: July 31, 2023

Medium(liquid type)	HSL 1900
Frequency (MHz)	1907.6000
Relative permittivity (real part)	40.24
Conductivity (S/m)	1.40
E-Field Probe	SN 25/22 EPG0376
Crest Factor	2.0
Conversion Factor	2.14
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	0.150000
SAR 10g (W/Kg)	0.336751
SAR 1g (W/Kg)	0.627076
SURFACE SAR	VOLUME SAR



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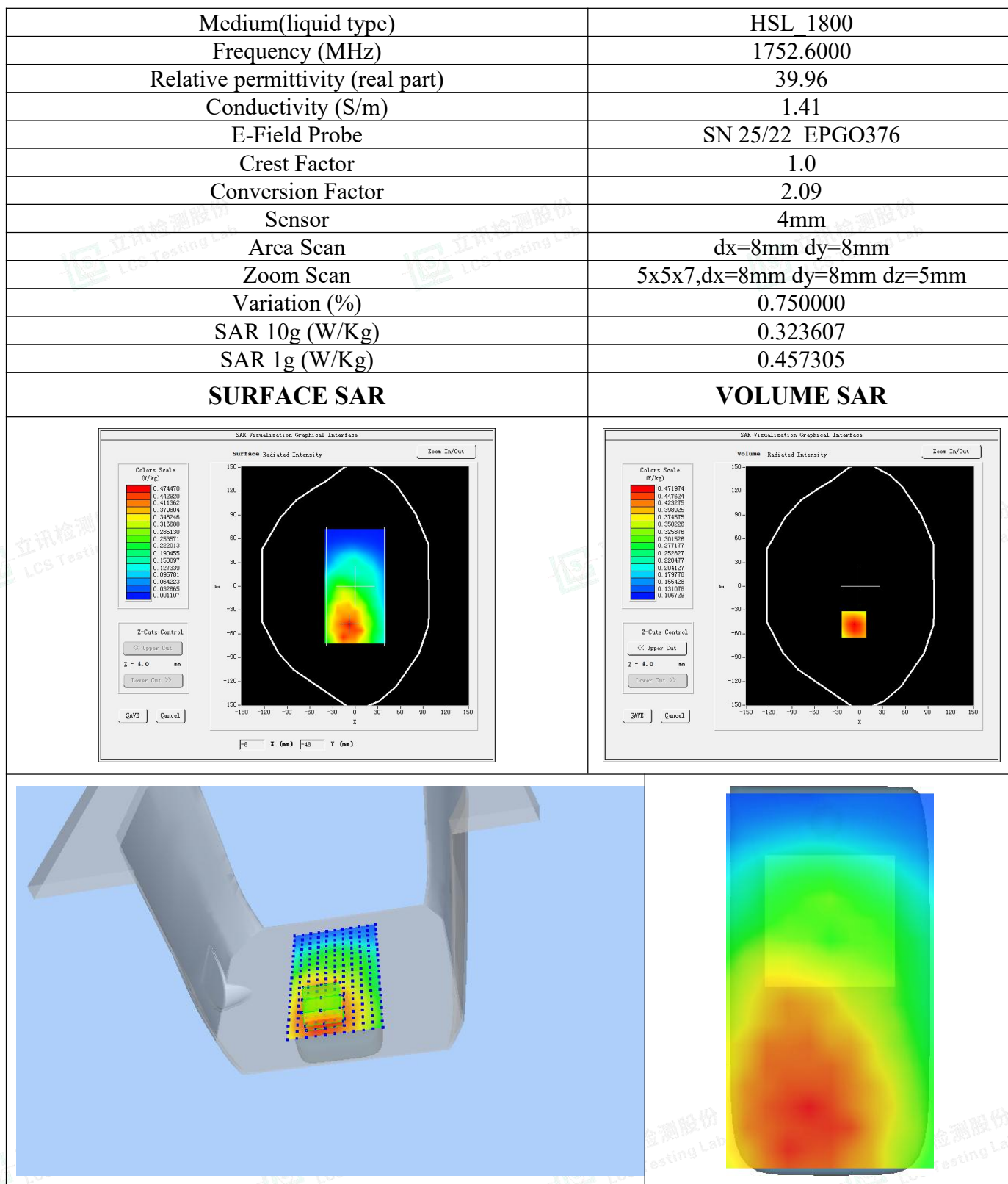
#2

Test Mode: WCDMA Band IV, High channel (Body Rear Side)

Product Description: Portable 4G LTE Router

Model: GL-E750V2C4

Test Date: July 28, 2023



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#3

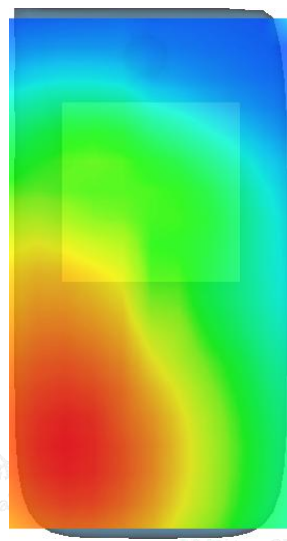
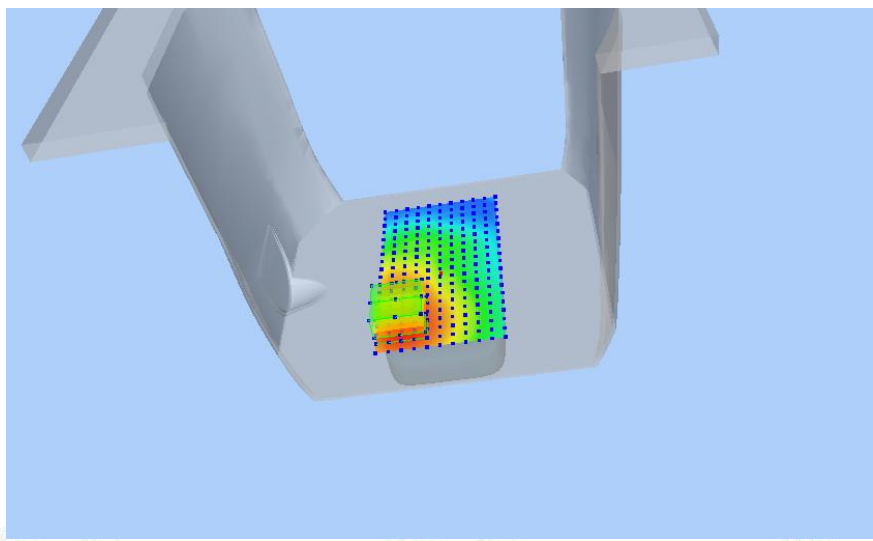
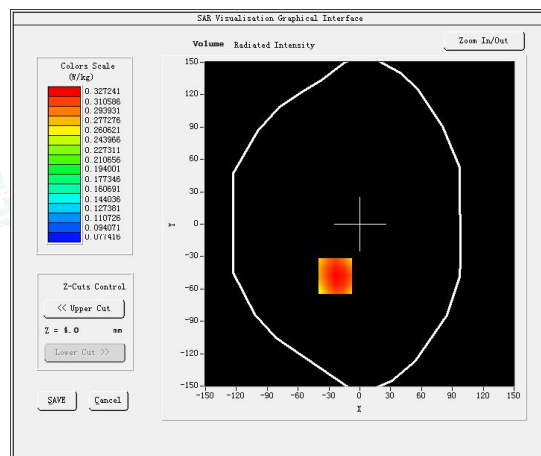
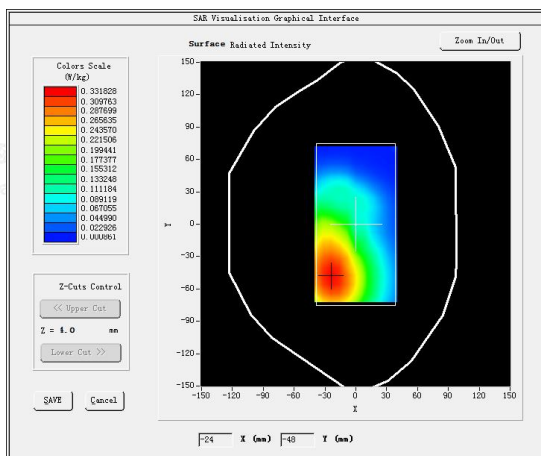
Test Mode: WCDMA Band V, Low channel(Body Rear Side)

Product Description: Portable 4G LTE Router

Model: GL-E750V2C4

Test Date: July 26, 2023

Medium(liquid type)	HSL_835
Frequency (MHz)	826.4000
Relative permittivity (real part)	43.22
Conductivity (S/m)	0.88
E-Field Probe	SN 25/22 EPG0376
Crest Factor	1.0
Conversion Factor	1.75
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	0.050000
SAR 10g (W/Kg)	0.236671
SAR 1g (W/Kg)	0.318686
SURFACE SAR	VOLUME SAR



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#4

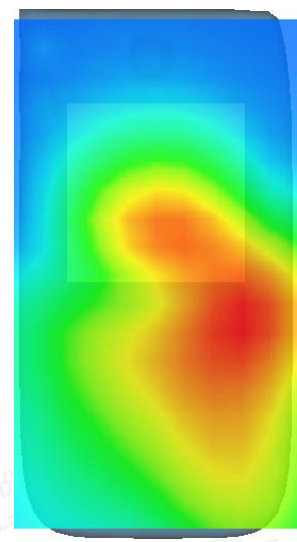
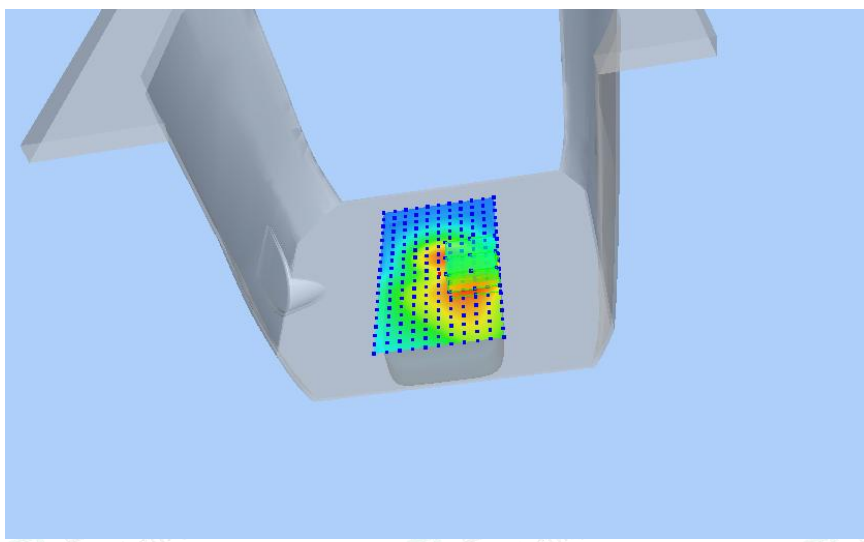
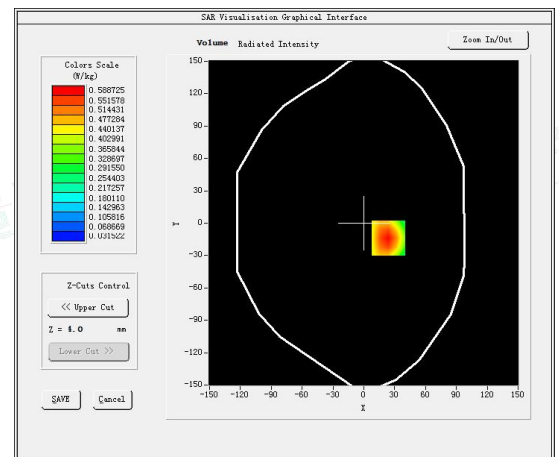
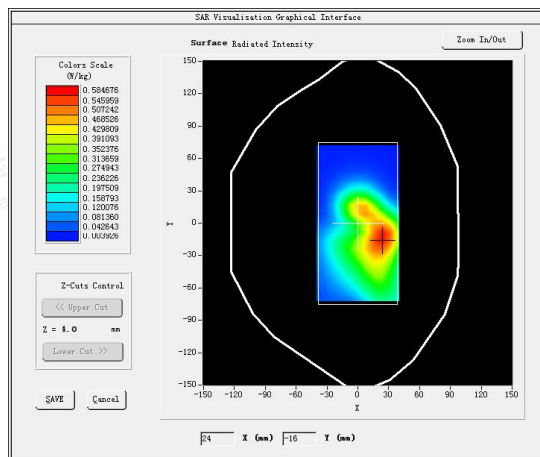
Test Mode: LTE Band 2, 1RB, Low channel (Body Rear Side)

Product Description: Portable 4G LTE Router

Model: GL-E750V2C4

Test Date: July 31, 2023

Medium (liquid type)	HSL 1900
Frequency (MHz)	1860.0000
Relative permittivity (real part)	40.24
Conductivity (S/m)	1.40
E-Field Probe	SN 25/22 EPGO376
Crest Factor	2.0
Conversion Factor	2.14
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	-1.330000
SAR 10g (W/Kg)	0.325483
SAR 1g (W/Kg)	0.558324
SURFACE SAR	VOLUME SAR



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#5

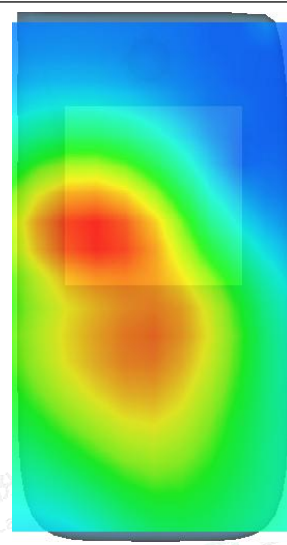
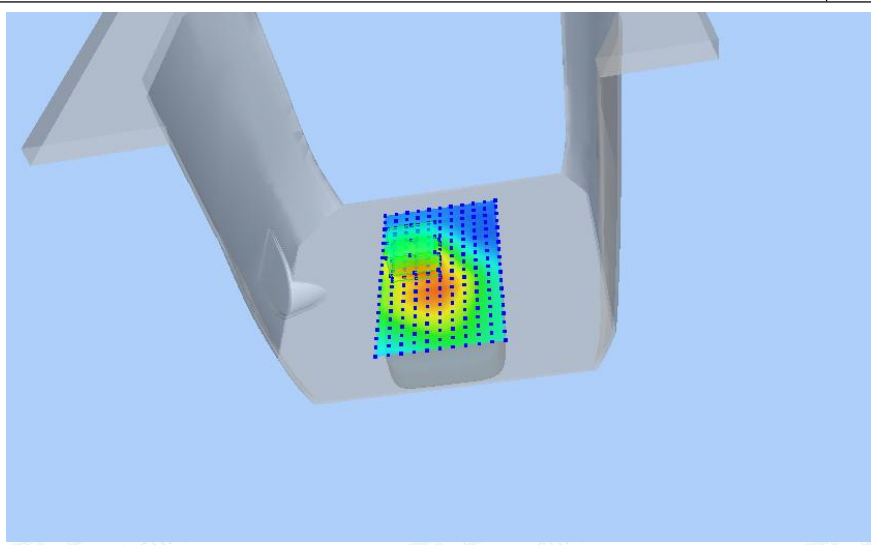
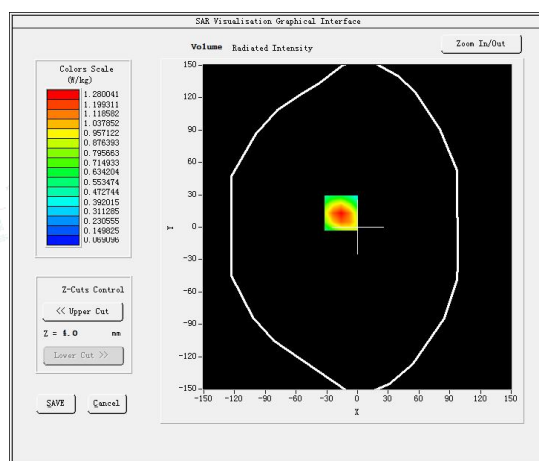
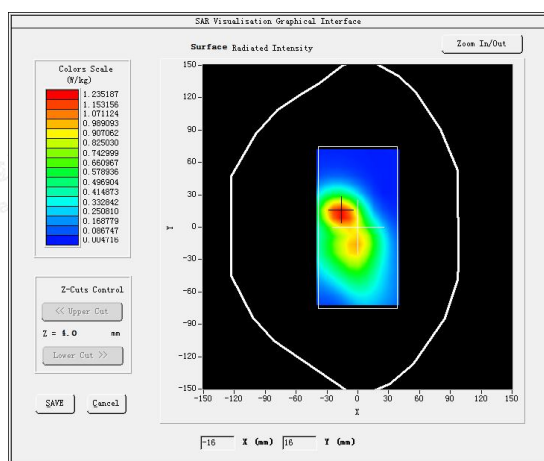
Test Mode: LTE Band 4, 1RB, High channel (Body Rear Side)

Product Description: Portable 4G LTE Router

Model: GL-E750V2C4

Test Date: July 28, 2023

Medium (liquid type)	HSL 1800
Frequency (MHz)	1745.0000
Relative permittivity (real part)	39.96
Conductivity (S/m)	1.41
E-Field Probe	SN 25/22 EPGO376
Crest Factor	1.0
Conversion Factor	2.09
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	-0.390000
SAR 10g (W/Kg)	0.691644
SAR 1g (W/Kg)	1.262298
SURFACE SAR	VOLUME SAR



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#6

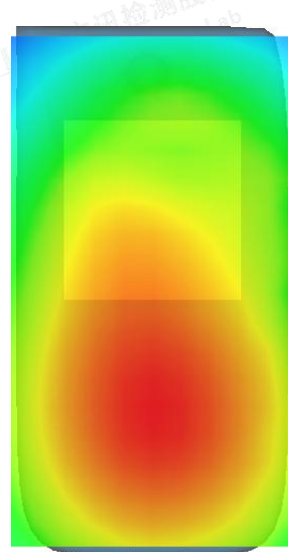
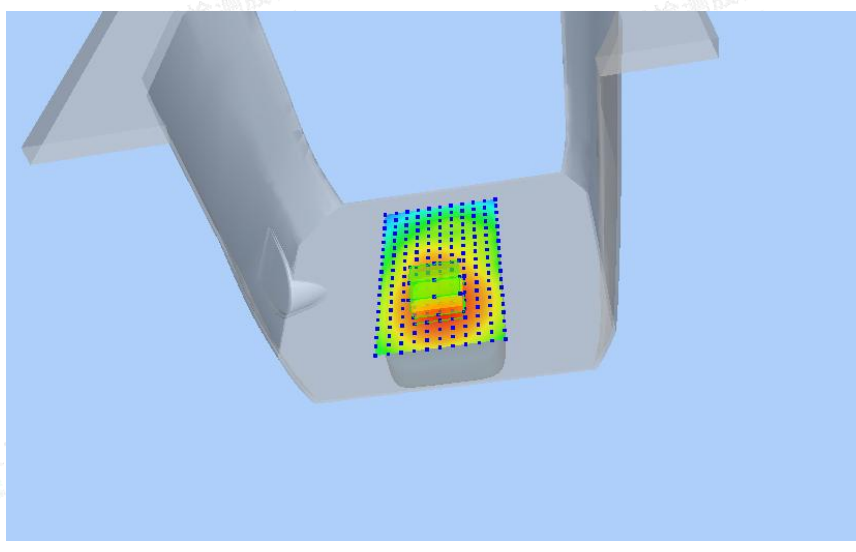
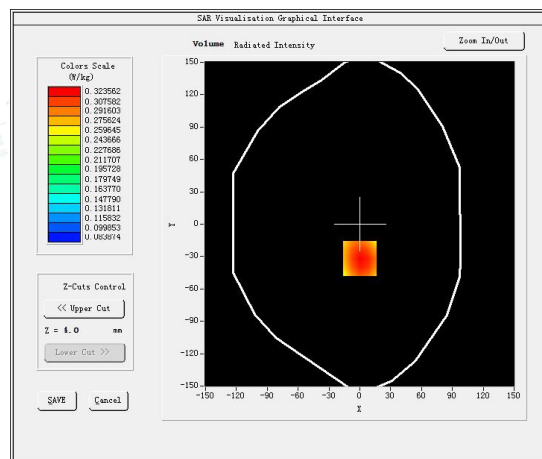
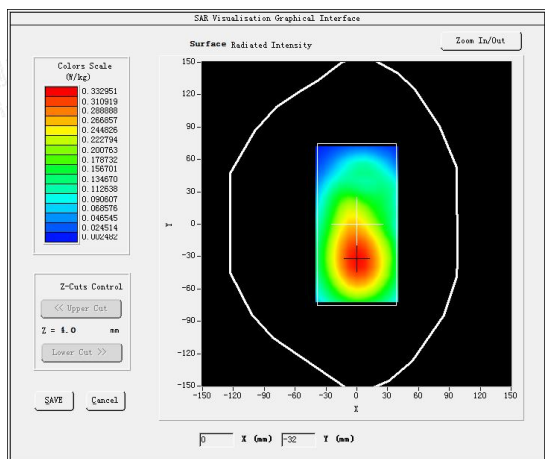
Test Mode: LTE Band 5, 1RB, Low channel (Body Rear Side)

Product Description: Portable 4G LTE Router

Model: GL-E750V2C4

Test Date: July 26, 2023

Medium (liquid type)	HSL_835
Frequency (MHz)	829.0000
Relative permittivity (real part)	43.22
Conductivity (S/m)	0.88
E-Field Probe	SN 25/22 EPGO376
Crest Factor	1.0
Conversion Factor	1.75
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	0.000000
SAR 10g (W/Kg)	0.230583
SAR 1g (W/Kg)	0.314255
SURFACE SAR	VOLUME SAR



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#7

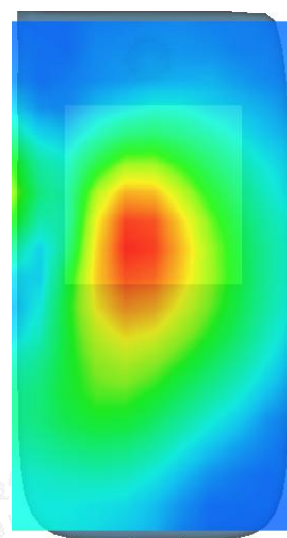
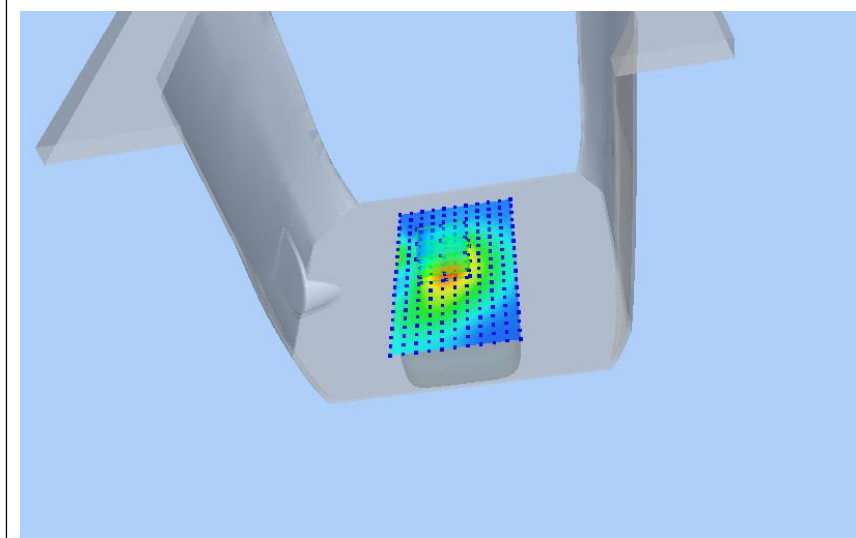
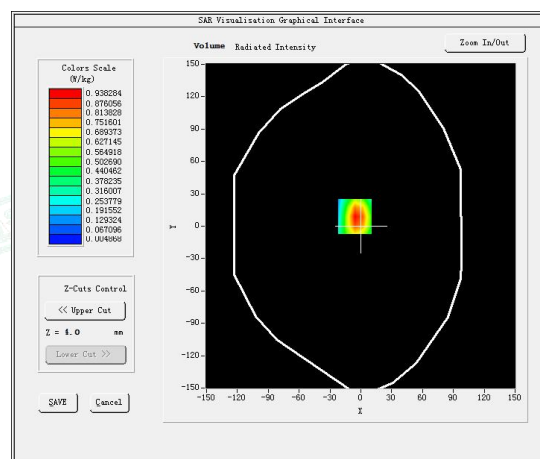
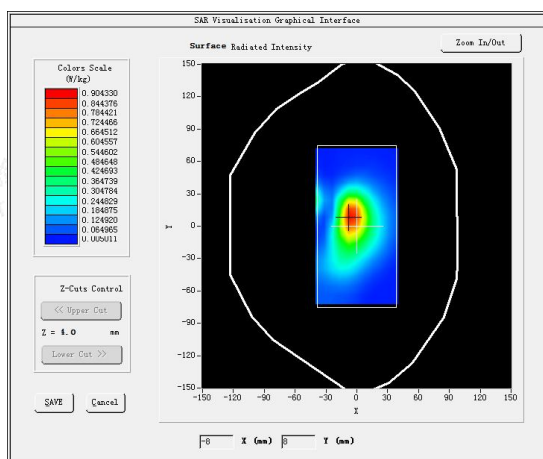
Test Mode: LTE Band 7, 1RB, Low channel (Body Rear Side)

Product Description: Portable 4G LTE Router

Model: GL-E750V2C4

Test Date: August 04, 2023

Medium (liquid type)	HSL 2600
Frequency (MHz)	2510.0000
Relative permittivity (real part)	39.68
Conductivity (S/m)	1.97
E-Field Probe	SN 25/22 EPG0376
Crest Factor	1.0
Conversion Factor	2.39
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	-0.530000
SAR 10g (W/Kg)	0.432429
SAR 1g (W/Kg)	0.888154
SURFACE SAR	VOLUME SAR



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#8

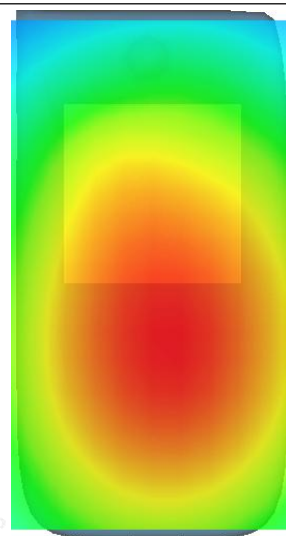
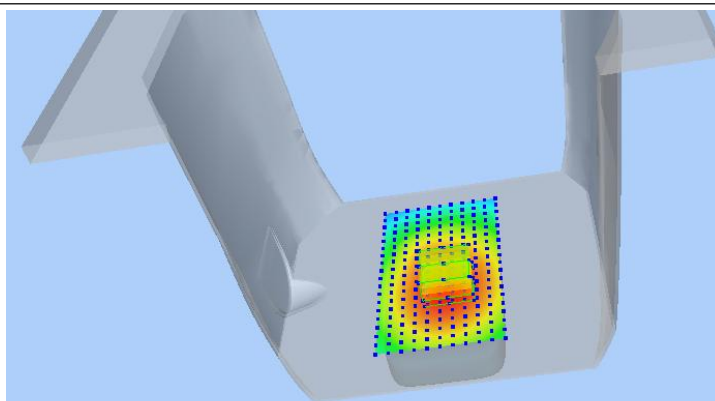
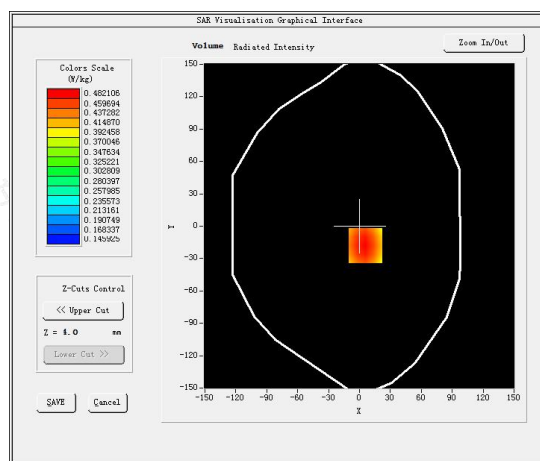
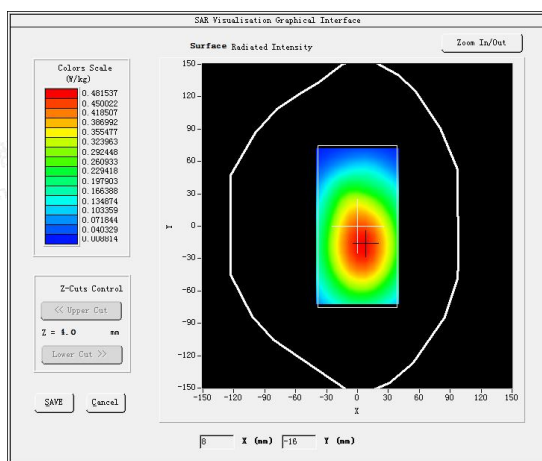
Test Mode: LTE Band 12, 1RB, High channel (Body Rear Side)

Product Description: Portable 4G LTE Router

Model: GL-E750V2C4

Test Date: July 25, 2023

Medium(liquid type)	HSL 750
Frequency (MHz)	711.0000
Relative permittivity (real part)	42.46
Conductivity (S/m)	0.90
E-Field Probe	SN 25/22 EPGO376
Crest Factor	1.0
Conversion Factor	1.69
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-0.540000
SAR 10g (W/Kg)	0.364617
SAR 1g (W/Kg)	0.477110
SURFACE SAR	VOLUME SAR



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#9

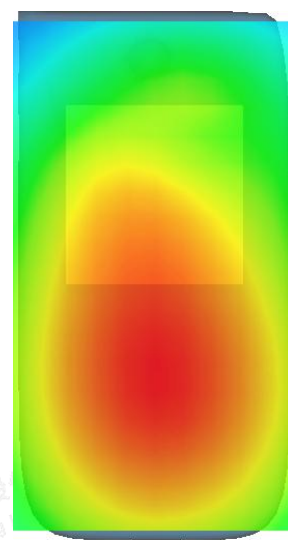
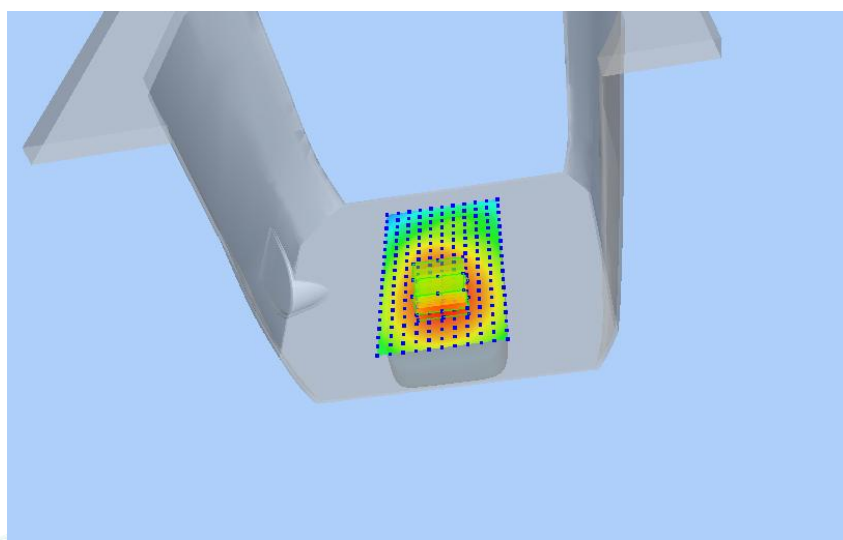
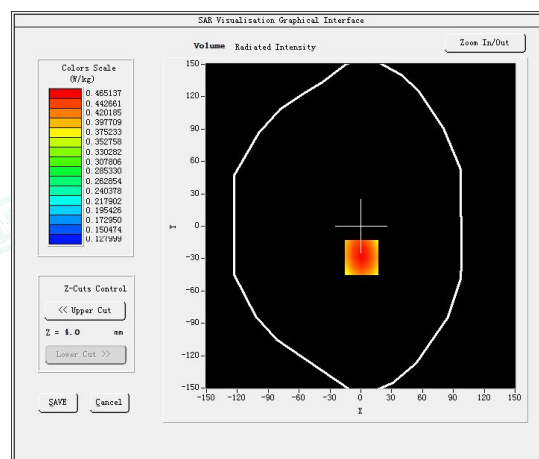
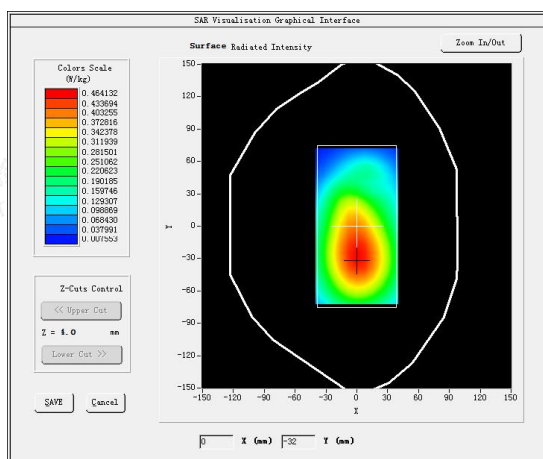
Test Mode: LTE Band 13, 1RB, Middle channel(Body Rear Side)

Product Description: Portable 4G LTE Router

Model: GL-E750V2C4

Test Date: July 25, 2023

Medium(liquid type)	HSL 750
Frequency (MHz)	782.0000
Relative permittivity (real part)	42.46
Conductivity (S/m)	0.90
E-Field Probe	SN 25/22 EPGO376
Crest Factor	1.0
Conversion Factor	1.69
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-0.400000
SAR 10g (W/Kg)	0.335154
SAR 1g (W/Kg)	0.449718
SURFACE SAR	VOLUME SAR



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#10

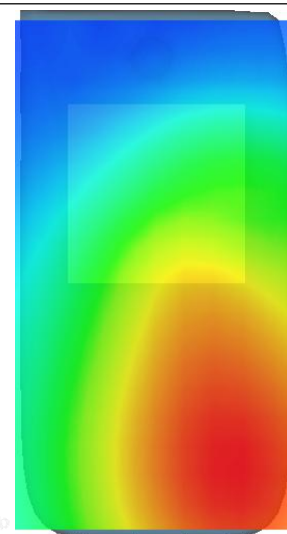
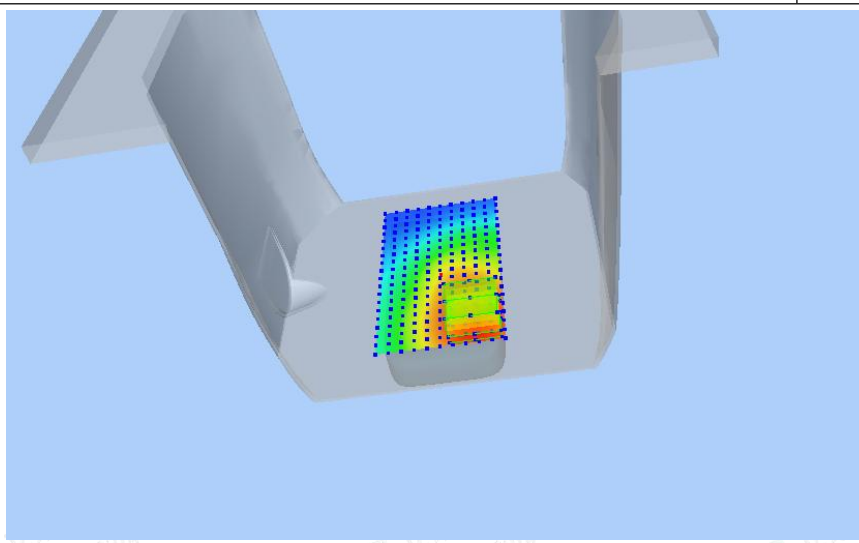
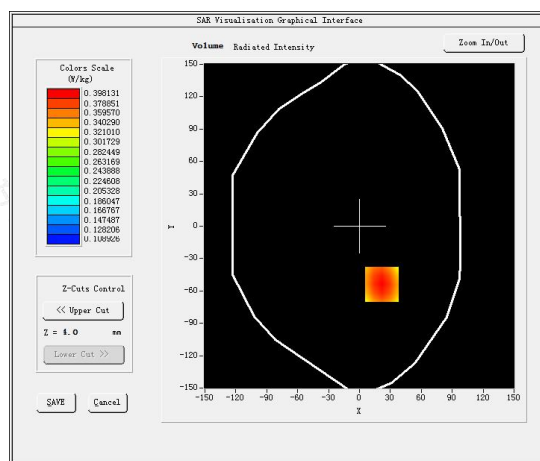
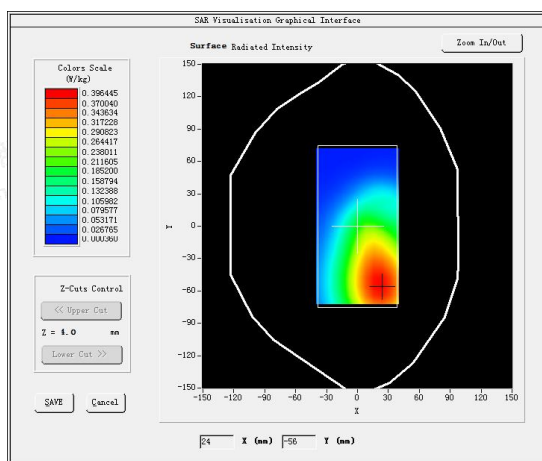
Test Mode: LTE Band 14, 1RB, Middle channel(Body Rear Side)

Product Description: Portable 4G LTE Router

Model: GL-E750V2C4

Test Date: July 25, 2023

Medium(liquid type)	HSL 750
Frequency (MHz)	793.0000
Relative permittivity (real part)	42.46
Conductivity (S/m)	0.90
E-Field Probe	SN 25/22 EPGO376
Crest Factor	1.0
Conversion Factor	1.69
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-0.340000
SAR 10g (W/Kg)	0.287082
SAR 1g (W/Kg)	0.384777
SURFACE SAR	VOLUME SAR



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#11

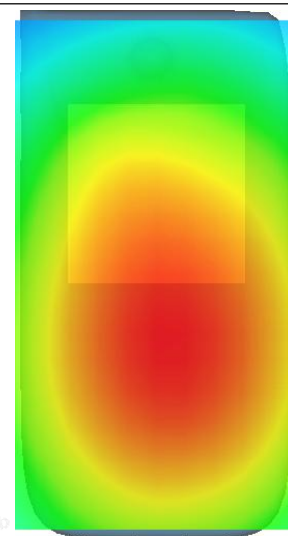
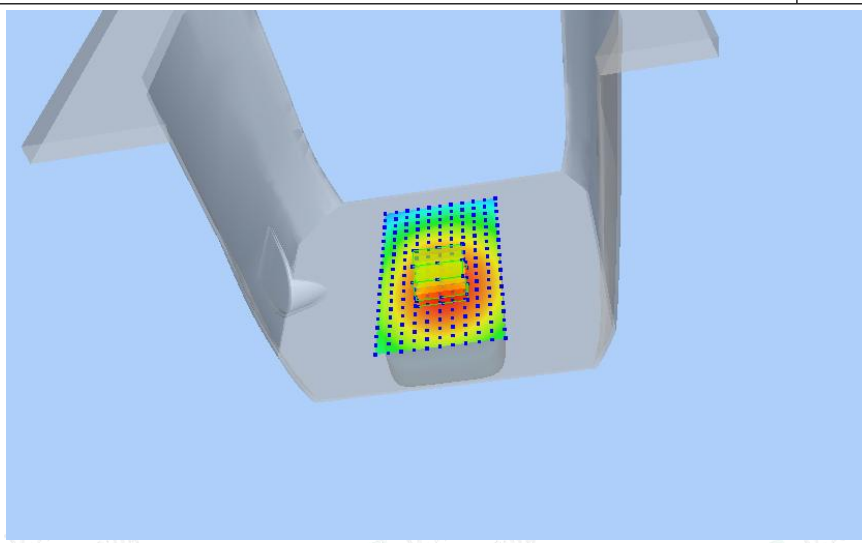
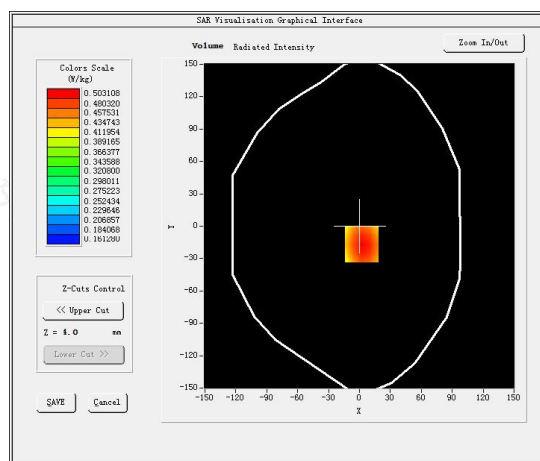
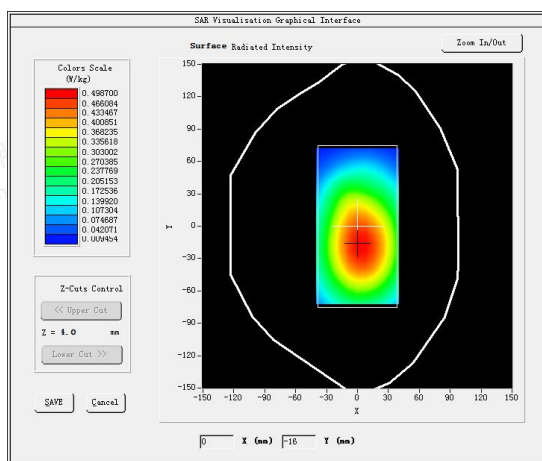
Test Mode: LTE Band 25, 1RB, Low channel (Body Rear Side)

Product Description: Portable 4G LTE Router

Model: GL-E750V2C4

Test Date: July 28, 2023

Medium(liquid type)	HSL 1800
Frequency (MHz)	1850.7000
Relative permittivity (real part)	39.96
Conductivity (S/m)	1.41
E-Field Probe	SN 25/22 EPGO376
Crest Factor	1.0
Conversion Factor	2.09
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-0.260000
SAR 10g (W/Kg)	0.381134
SAR 1g (W/Kg)	0.497277
SURFACE SAR	VOLUME SAR



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#12

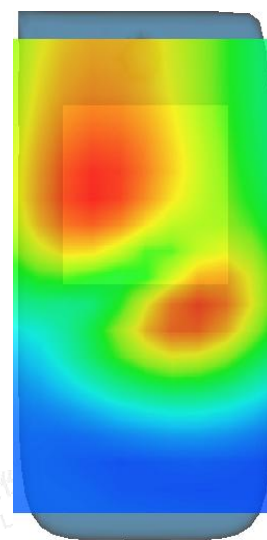
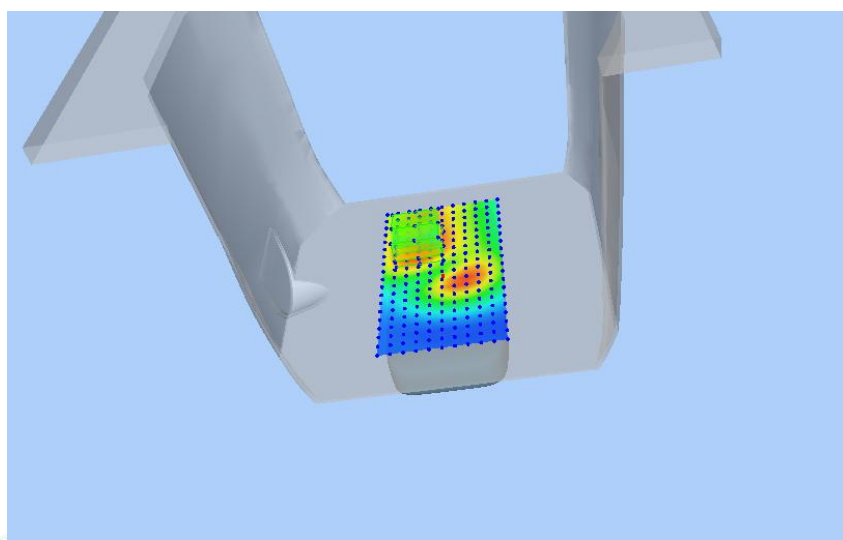
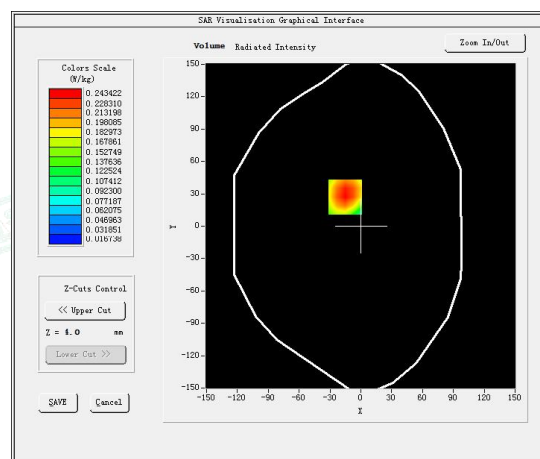
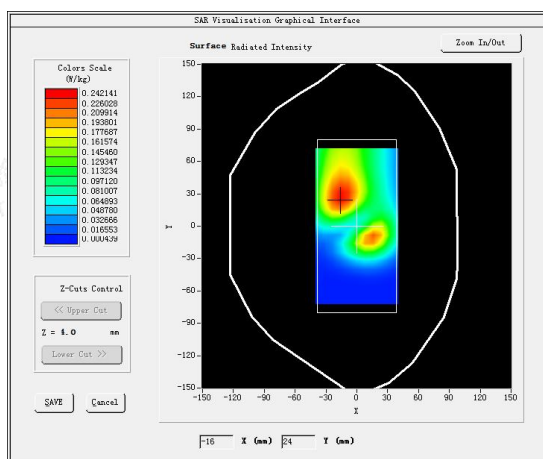
Test Mode: LTE Band 26, 1RB, Middle channel(Body Rear Side)

Product Description: Portable 4G LTE Router

Model: GL-E750V2C4

Test Date: July 26, 2023

Medium(liquid type)	HSL 835
Frequency (MHz)	819.0000
Relative permittivity (real part)	43.22
Conductivity (S/m)	0.88
E-Field Probe	SN 25/22 EPGO376
Crest Factor	1.0
Conversion Factor	1.75
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	1.120000
SAR 10g (W/Kg)	0.162816
SAR 1g (W/Kg)	0.233743
SURFACE SAR	VOLUME SAR



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