

Report No.: SUZR/2021/8005306

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# FCC SAR TEST REPORT

Application No.: ZR/2021/80053

Applicant:Great Talent Technology LimitedManufacturer:Great Talent Technology Limited

Product Name: feature phone

Model No.(EUT): SC3218T

Trade Mark: SCHOK

 FCC ID:
 2ALZM-SC3218T

 Standards:
 FCC 47CFR §2.1093

**Date of Receipt:** 2021-11-09

**Date of Test:** 2021-11-17 to 2021-12-24

Date of Issue: 2022-01-04
Test conclusion: PASS \*

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Panta Sun

Wireless Laboratory Manager



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### **REVISION HISTORY**

Report Number	Revision	Description	Issue Date
SUZR/2021/8005306	01	Original	2022-01-04



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### **TEST SUMMARY**

Frequency Band	Maximum Reported SAR(W/kg)		
Frequency Band	Head	Body-worn	Hotspot
GSM850	0.14	0.67	1.11
GSM1900	0.11	0.47	1.24
WCDMA Band II	0.12	0.88	1.27
WCDMA Band IV	0.17	0.60	1.29
LTE Band 12	<0.10	0.50	0.70
LTE Band 2/25	<0.10	0.54	1.03
LTE Band 5/26	<b>0.26</b> 0.53 0		0.65
LTE Band 41	<0.10	0.10 0.68 1.36	
LTE Band 4/66	0.10 0.63 1.2		1.27
LTE Band 71	<0.10 0.28 0.43		0.43
WI-FI (2.4GHz)	0.10 0.14 0.35		0.35
BT	<0.10	<0.10	<0.10
SAR Limited(W/kg)	1.6		
Maximum Simultaneous Transmission SAR (W/kg)			
Scenario	Head Body-worn Hotsp		Hotspot
Sum SAR	0.36	1.02	1.59
SPLSR	N/A	N/A	N/A
SPLSR Limited	0.04		

#### Note:

1) The Simultaneous transmission SAR is the same test position of the WWAN antenna + WiFi/BT antenna.
2) According to TCB workshop October,2014 RF Exposure Procedures Update(Overlapping LTE Bands), When the supported frequency range of an LTE Band falls completely within an LTE band with a larger transmission frequency range, both LTE bands have the same target power (or the band with the larger transmission frequency range has a higher target power), and both LTE bands share the same transmission path and signal characteristics, SAR was only assessed for the band with the larger transmission frequency range. For This device, LTE band 2/4/5 SAR test was covered by Band 25/66/26.

Reviewed by

Nature Shen

**Nature Shen** 

Prepared by





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## 1 General Information

#### 1.1 Details of Client

Applicant:	Great Talent Technology Limited
Address:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China
Manufacturer:	Great Talent Technology Limited
Address:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China

#### 1.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test Engineer:	Nature Shen, KING-P li





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### 1.3 Test Facility

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

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the

American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.



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### 1.4 General Description of EUT

Device Type :	portable device				
Exposure Category:	uncontrolled environment / general population				
Product Name:	feature phone				
Model No.(EUT):	SC3218T				
FCC ID:	2ALZM-SC3218T				
Trade Mark:	SCHOK				
Product Phase:	Identical Prototype				
IMEI:	358476180003964/3584	476180003824			
Hardware Version:	Q3203_V1.0				
Software Version:	SC3218T_V1.0.0				
Antenna Type:	Integrated				
Device Operating Configuration	ns :				
Modulation Mode:	GSM: GMSK, 8PSK; W LTE: QPSK,16QAM	CDMA: QPSK, 16QAM(HSPA+); Γ: GFSK, π/4DQPSK,8DPSK			
Device Class:	В				
GPRS Multi-slots Class:	33	EGPRS Multi-slots Class:	33		
HSDPA UE Category:	24	HSUPA UE Category	7		
DC-HSDPA UE Category:	24				
Power Class	4,tested with power level 5(GSM850)  1,tested with power level 0(GSM1900)  3, tested with power control "all 1"(WCDMA Band)  3, tested with power control Max Power(LTE Band)				
	Band	Tx (MHz)	Rx (MHz)		
	GSM850	824~849	869~894		
	GSM1900	1850~1910	1930~1990		
	WCDMA Band II	1850~1910	1930~1990		
	WCDMA Band IV	1710~1755	2110~2155		
	LTE Band 2	1850 ~1910	1930 ~1990		
	LTE Band 4	1710~1755	2110~2155		
	LTE Band 5	824~849	869-894		
Frequency Bands:	LTE Band 12	699~716	729~746		
	LTE Band 25	1850~1915	1930~1995		
	LTE Band 26	814~849	859~894		
	LTE Band 41 (Class 2/3)	2496~2690	2496~2690		
	LTE Band 66	1710~1780	2110~2200		
	LTE Band 71	663~698	617~652		
	Bluetooth	2402~2480	2402~2480		
	Wi-Fi 2.4G	2412~2462	2412~2462		
RF Cable:	□ Provided by the aplicant □ Provided by the laboratory				



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	Model:	SB2000
Battery Information:	Normal Voltage:	3.8V
Battery information.	Rated capacity:	3000mAh
	Manufacturer:	Phenix New Energy (Huizhou) Co., Ltd.



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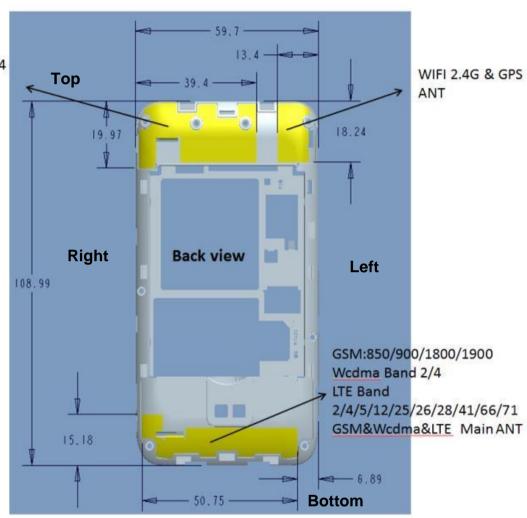
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### 1.4.1 DUT Antenna Locations(Back View)

Wcdma Band 2/4 LTE Band 2/4/5/12/25/26/28/4 1/66/71 Wcdma&LTE DRX ANT



#### Note:

1) DRX Antenna does not support transmitter function.



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According to the distance between LTE/WCDMA/GSM&WIFI&BT antennas and the sides of the EUT we can draw the conclusion that:

EUT Sides for SAR Testing (cover closed)							
Mode	Exposure Condition	Front	Back	Left	Right	Тор	Bottom
Main Ant	Ant Hotspot		Yes	Yes	Yes	No	Yes
WIFI 2.4G/BT	IG/BT Hotspot		Yes	Yes	No	Yes	No
EUT Sides for SAR Testing (cover opened)							
Mode	Exposure Condition	Front	Back	Left	Right	Тор	Bottom
Main Ant	Hotspot	Yes	Yes	Yes	Yes	No	Yes
WIFI 2.4G/BT	Hotspot	Yes	Yes	Yes	No	No	No

Table 1: EUT Sides for SAR Testing Note:

1) When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested. For Hotspot exposure of cover opened, the test case was considered each half of surface separately due to fold angle. And only keypad part was considered about SAR test because Display part has not any antennas.



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## 1.5 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
KDB 447498 D01	General RF Exposure Guidance v06
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03



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### 1.6 RF exposure limits

uman Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain*Trunk)	1.60 mW/g	8.00 mW/g
Spatial Average SAR** (Whole Body)	0.08 mW/g	0.40 mW/g
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g

#### Notes:

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

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



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<sup>\*</sup> The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time

<sup>\*\*</sup> The Spatial Average value of the SAR averaged over the whole body.

<sup>\*\*\*</sup> The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.



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# 2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C		
Relative humidity	Min. = 30%, Max. = 70%		
Ambient noise is checked and found very low and in compliance with requirement of standards.			
Reflection of surrounding objects is minimized and in compliance with requirement of standards.			

Table 2: The Ambient Conditions



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## 3 SAR Measurements System Configuration

### 3.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR=  $\sigma$  (|Ei|2)/  $\rho$  where  $\sigma$  and  $\rho$  are the conductivity and mass density of the tissue-Simulate.

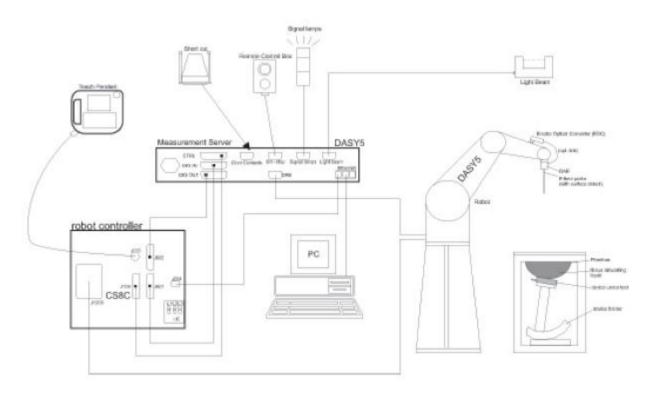
The DASY5 system for performing compliance tests consists of the following items:

A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software .An arm extension for accommodation the data acquisition electronics (DAE).

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.

A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



F-1. SAR Measurement System Configuration



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• The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.

- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.

### 3.2 Isotropic E-field Probe EX3DV4

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 <u>calibration service</u> available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μW/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI



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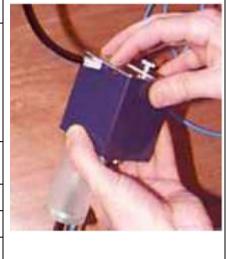
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## 3.3 Data Acquisition Electronics (DAE)

Model	DAE		
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.		
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)		
Input Offset Voltage	< 5μV (with auto zero)		
Input Bias Current	< 50 f A		
Dimensions	60 x 60 x 68 mm		



### 3.4 SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)		
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)		
Shell Thickness	$2 \pm 0.2$ mm (6 $\pm 0.2$ mm at ear point)		
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet		
Filling Volume	approx. 25 liters		
Wooden Support	SPEAG standard phantom table		



The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It 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 evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.



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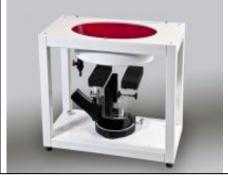
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#### 3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)			
Liquid	Compatible with all SPEAG tissue			
Compatibility	simulating liquids (incl. DGBE type)			
Shell Thickness	2.0 ± 0.2 mm (bottom plate)			
Dimensions	Major axis: 600 mm			
	Minor axis: 400 mm			
Filling Volume	approx. 30 liters			
Wooden Support	SPEAG standard phantom table			



Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.

ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4, but has reinforced top structure.



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### 3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity  $\varepsilon$ =3 and loss tangent  $\delta$ =0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



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### Measurement procedure

### 3.7.1 Scanning procedure

#### **Step 1: Power reference measurement**

The "reference" and "drift" measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure.

#### Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm\*15mm or 12mm\*12mm or 10mm\*10mm.Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

#### Step 3: Zoom scan

Around this point, a volume of 32mm\*32mm\*30mm (f≤2GHz), 30mm\*30mm\*30mm (f for 2-3GHz) and 24mm\*24mm\*22mm (f for 5-6GHz) was assessed by measuring 5x5x7 points (f≤2GHz), 7x7x7 points (f for 2-3GHz) and 7x7x12 points (f for 5-6GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification). The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points were interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std. 1528-2013.



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			≤ 3 GHz	> 3 GHz	
Maximum distance from			5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$	
Maximum probe angle surface normal at the n			30° ± 1° 20° ± 1°		
			≤ 2 GHz: ≤ 15 mm 3 – 4 GHz: ≤ 12 mm 2 – 3 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm		
Maximum area scan spatial resolution: $\Delta x_{Area}$ , $\Delta y_{Area}$			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 ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.		
Maximum zoom scan spatial resolution: $\Delta x_{Zoom}$ , $\Delta y_{Zoom}$			≤ 2 GHz: ≤ 8 mm 2 - 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*	
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	$3 - 4 \text{ GHz} \le 4 \text{ mm}$ $4 - 5 \text{ GHz} \le 3 \text{ mm}$ $5 - 6 \text{ GHz} \le 2 \text{ mm}$	
	graded	Δz <sub>Zoom</sub> (1): between 1 <sup>st</sup> two points closest to phantom surface	≤ 4 mm	$3-4$ GHz: $\leq 3$ mm $4-5$ GHz: $\leq 2.5$ mm $5-6$ GHz: $\leq 2$ mm	
	grid $\Delta z_{Z_{00m}}(n>1)$ : between subsequent points		$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$		
Minimum zoom scan volume	x, y, z		3 - 4 GHz: ≥ 28 m ≥ 30 mm 4 - 5 GHz: ≥ 25 m 5 - 6 GHz: ≥ 22 m		

### Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max.  $\pm$  5 %



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#### 3.7.2 Data Storage

The DASY 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 with the extension ".DAE4". 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 reevaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/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.

#### 3.7.3 Data Evaluation by SEMCAD

The SEMCAD 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

- Crest factor

Media parameters: - Conductivity ε

- Density

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 DASY 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 DCtransmission 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:

$$V_i = U_i + U_i^2 \cdot c f / d c p_i$$

Vi = compensated signal of channel i (i = x, y, z)

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

cf = crest factor of exciting field (DASY parameter)

dcp i = diode compression point (DASY parameter)

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

E-field probes:

$$E_{i} = (V_{i} / Norm_{i} \cdot ConvF)^{1/2}$$



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H-field probes:

$$H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2)/f$$
  
With Vi = compensated signal of channel i (i = x, y, z)

Normi = sensor sensitivity of channel I

[mV/(V/m)2] for E-field Probes

ConvF = sensitivity enhancement in solution

aij = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

Ei = electric field strength of channel i in V/m

Hi = magnetic field strength of channel i in A/m

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

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

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

$$SAR = (Etot^2 \cdot \sigma) / (\varepsilon \cdot 1000)$$

SAR = local specific absorption rate in mW/g

Etot = total field strength in V/m

σ= conductivity in [mho/m] or [Siemens/m]

ε= 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. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = E_{tot}^2 2 / 3770_{or} P_{pwe} = H_{tot}^2 \cdot 37.7$$

Ppwe = equivalent power density of a plane wave in mW/cm2

Etot = total electric field strength in V/m

Htot = total magnetic field strength in A/m



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# 4 SAR measurement variability and uncertainty

### 4.1 SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is remounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

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

## 4.2 SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.



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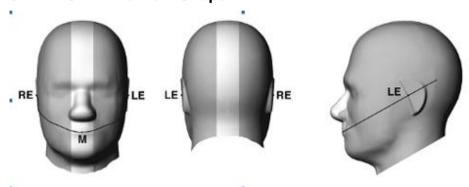
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## 5 Description of Test Position

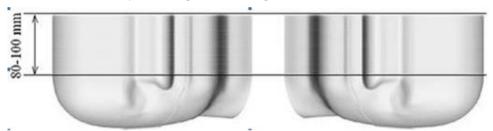
### 5.1 Head Exposure Condition

#### 5.1.1 SAM Phantom Shape

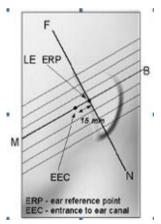


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

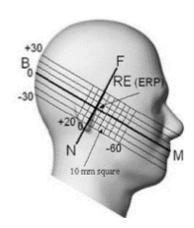
Note: The centre strip including the nose region has a different thickness tolerance.



F-4. Sagittally bisected phantom with extended perimeter (shown placed on its side as used for SAR measurements)



F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations



F-6. Side view of the phantom showing relevant markings and seven cross-sectional plane locations



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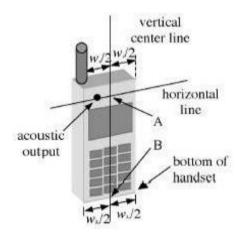


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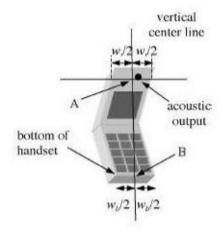
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#### 5.1.2 EUT constructions



F-7. Handset vertical and horizontal reference lines-"fixed case"



F-8. Handset vertical and horizontal reference lines-"clam-shell case"

### 5.1.3 Definition of the "cheek" position

- a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom ("initial position"). While maintaining the device in this plane, align the vertical centre line with the reference plane containing the three ear and mouth reference points (M, RE and LE) and align the centre of the ear piece with the line RE-LE.
- b) Translate the mobile phone box towards the phantom with the ear piece aligned with the line LE-RE until telephone touches the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the box until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.



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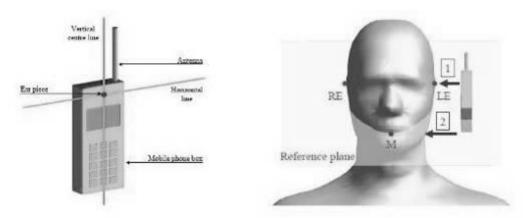
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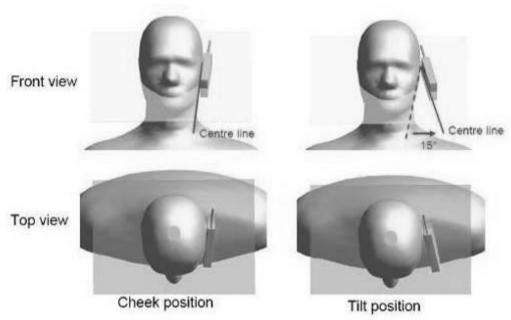
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### 5.1.4 Definition of the "tilted" position

- a) Position the device in the "cheek" position described above;
- b) While maintaining the device in the reference plane described above and pivoting against the ear, move it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.



F-9. Definition of the reference lines and points, on the phone and on the phantom and initial position



F-10. "Cheek" and "tilt" positions of the mobile phone on the left side



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### **5.2 Body Exposure Condition**

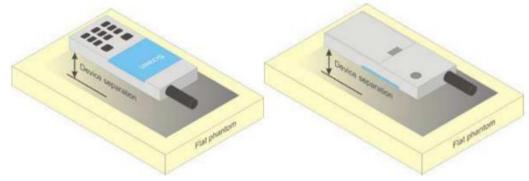
#### 5.2.1 Body-worn accessory exposure conditions

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations.

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration. Per FCC KDB Publication 648474 D04, Bodyworn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented. Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.



F-11. Test positions for body-worn devices



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#### 5.2.2 Wireless Router exposure conditions

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 where SAR test considerations for handsets (L x W  $\geq$  9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front, back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed use conditions for this type of devices. For devices with form factors smaller than 9 cm x 5 cm, a test separation distance of 5 mm is required.



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Sucrose: 98+% Pure Sucrose

HEC: Hydroxyethyl Cellulose

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## 6 SAR System Verification Procedure

## 6.1 Tissue Simulate Liquid

### 6.1.1 Recipes for Tissue Simulate Liquid

The bellowing tables give the recipes for tissue simulating liquids to be used in different frequency bands:

Ingredients	Frequency (MHz)						
(% by weight)	450	700-900	1750-2000	2300-2500	2500-2700		
Water 38.56		40.30	55.24	55.00	54.92		
Salt (NaCl) 3.95		1.38	0.31	0.2	0.23		
Sucrose	56.32	57.90	0	0	0		
HEC	0.98	0.24	0	0	0		
Bactericide	tericide 0.19		0	0	0		
Tween	0	0	44.45	44.80	44.85		

Salt: 99\*% Pure Sodium Chloride
Water: De-ionized, 16 MΩ\* resistivity

Tween: Polyoxyethylene (20) sorbitan monolaurate

HSL5GHz is composed of the following ingredients:

Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%

Table 3: Recipe of Tissue Simulate Liquid



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#### 6.1.2 Measurement for Tissue Simulate Liquid

The Conductivity ( $\sigma$ ) and Permittivity ( $\rho$ ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was 22±2°C.

	Measured	Target Tissue (±5%)		Measured Tissue		Liquid		
Tissue Type	Frequency (MHz)	ε <sub>r</sub>	$\epsilon_{r}$ $\sigma(S/m)$		σ(S/m)	Temp.(°C)	Measured Date	
750 Head	750	41.9 (39.81~44)	0.89 (0.85~0.94)	41.540	0.881	22.1	2021/11/30	
750 Head	750	41.9 (39.81~44)	0.89 (0.85~0.94)	42.683	0.883	22.1	2021/12/2	
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	42.397	0.924	22.1	2021/11/17	
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	39.179 1.372		22.2	2021/12/21	
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	39.371	1.349	22.2	2021/12/24	
1900 Head	1900	40.0 (38.00~42.00)	1.40 (1.33~1.47)	40.117	1.404	22.3	2021/11/19	
1900 Head	1900	40.0 (38.00~42.00)	1.40 (1.33~1.47)	38.946	1.446	22.3	2021/12/22	
2450 Head	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	38.177	1.813	22.0	2021/11/20	
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	37.771	2.022	22.1	2021/12/23	

Table 4: Measurement result of Tissue electric parameters



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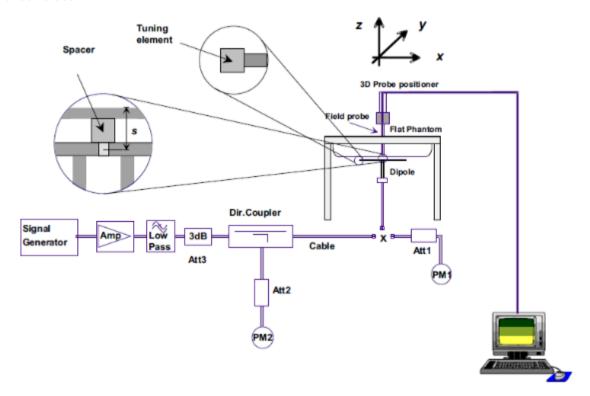
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## 6.2 SAR System Check

The microwave circuit arrangement for system Check is sketched in F-12. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table (A power level of 250mW (below 3GHz) or 100mW (3-6GHz) was input to the dipole antenna). During the tests, the ambient temperature of the laboratory was in the range 22±2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15±0.5 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-12. the microwave circuit arrangement used for SAR system check



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### 6.2.1 Justification for Extended SAR Dipole Calibrations

1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.

- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 10% of calibrated measurement;
- d) Impedance is within  $5\Omega$  from the previous measurement.
- 2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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### 6.2.2 Summary System Check Result(s)

Validation Kit		Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W) (±10%)	Target SAR (normalized to 1W) (±10%)	Liquid Temp. (°C)	Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	` ′	
D750V3	Head	2.30	1.52	9.20	6.08	8.48 (7.63~9.33)	5.56 (5.00~6.12)	22.1	2021/11/30
D750V3	Head	1.96	1.29	7.84	5.16	8.48 (7.63~9.33)	5.56 (5.00~6.12)	22.1	2021/12/2
D835V2	Head	2.27	1.47	9.08	5.88	9.52 (8.57~10.47)	6.17 (5.55~6.79)	22.1	2021/11/17
D1750V2	Head	8.38	4.42	33.52	17.68	35.3 (31.77~38.83)	18.7 (16.83~20.57)	22.2	2021/12/21
D1750V2	Head	8.25	4.35	33.00	17.40	35.3 (31.77~38.83)	18.7 (16.83~20.57)	22.2	2021/12/24
D1900V2	Head	9.63	4.92	38.52	19.68	39.7 (35.73~43.67)	20.3 (18.27~22.33)	22.3	2021/11/19
D1900V2	Head	9.91	5.07	39.64	20.28	39.7 (35.73~43.67)	20.3 (18.27~22.33)	22.3	2021/12/22
D2450V2	Head	12.60	5.82	50.40	23.28	52.2 (46.98~57.42)	24.5 (22.05~26.95)	22.0	2021/11/20
D2600V2	Head	13.90	6.15	55.60	24.60	57.1 (51.39~62.81)	25.4 (22.86~27.94)	22.1	2021/12/23

Table 5: SAR System Check Result

#### 6.2.3 Detailed System Check Results

Please see the Appendix A



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## 7 Test Configuration

### 7.1 3G SAR Test Reduction Procedure

According to KDB 941225D01, 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  $\leq 1.2$  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.

### 7.2 Operation Configurations

#### 7.2.1 GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a base station by air link. Using CMW500 the power lever is set to "5" and "0" in SAR of GSM 850 and GSM 1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 33 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5. The EGPRS class is 33 for this EUT, it has at most 4 timeslots in uplink, and at most 4 timeslots in downlink, the maximum total timeslot 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.

When SAR tests for EGPRS mode is necessary, GMSK modulation should be used to minimize SAR measurement error due to higher peak-to-average power (PAR) ratios inherent in 8-PSK.

The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode



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#### 7.2.2 WCDMA Test Configuration

#### 1) . 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, DPDCHn 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.

#### 2) . 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

#### 3) . Body SAR

SAR for body 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 spreaing code or DPDCHn, for the highest reported bodyworn 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.

#### 4) . HSDPA / HSUPA / DC-HSDPA

According to KDB 941225 D01v03, RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is  $\leq \frac{1}{4}$  dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is  $\leq$  1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA

#### a) HSDPA

HSDPA is configured according to the applicable UE category of a test device. The number of HS-DSCH/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 and a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors( $\beta$ c,  $\beta$ d), and HS-DPCCH power offset parameters ( $\Delta$ ACK,  $\Delta$ NACK,  $\Delta$ CQI) are set according to values indicated in the following table. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.



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Sub-test	βς	Bd	βd(SF)	βc/βd	βhs	CM(dB)	MPR (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0
2	12/15(3)	15/15(3)	64	12/15(3)	24/15	1.0	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:  $\triangle$ ACK,  $\triangle$ NACK and  $\triangle$ CQI= 8 Ahs =  $\beta$ hs/ $\beta$ c=30/15  $\beta$ hs=30/15\* $\beta$ c

Note2: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 5.13.1.A,and HSDPA EVM with phase discontinuity in clause 5.13.1AA,  $\triangle$ ACK and  $\triangle$ NACK= 8 ( Ahs=30/15) with  $\beta$ hs=30/15\* $\beta$ c,and  $\triangle$ CQI=

7 (Ahs=24/15) with  $\beta$ hs=24/15\* $\beta$ c.

Note3: CM=1 for $\beta$ c/ $\beta$ d =12/15,  $\beta$ hs/ $\beta$ c=24/15. For all other combinations of DPDCH, 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.

The measurements were performed with a Fixed Reference Channel (FRC) and H-Set 1 QPSK.

Parameter	Value
Nominal average inf. bit rate	534 kbit/s
Inter-TTI Distance	3 TTI"s
Number of HARQ Processes	2 Processes
Information Bit Payload	3202 Bits
MAC-d PDU size	336 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	4800 Bits
Total Available SMLs in UE	
	19200 SMLs
Number of SMLs per HARQ Process	9600 SMLs
Coding Rate	0.67
Number of Physical Channel Codes	5

Table 6: settings of required H-Set 1 QPSK acc. to 3GPP 34.121



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			rage. 30 01 10	
HS-DSCH Category	Maximum HS-DSCH Codes Received	Minimum Inter- TTI Interval	MaximumH S-DSCH Transport BlockBits/HS- DSCH TTI	Total Soft Channel Bits
1	5	3	7298	19200
2	5	3	7298	28800
3	5	2	7298	28800
4	5	2	7298	38400
5	5	1	7298	57600
6	5	1	7298	67200
7	10	1	14411	115200
8	10	1	14411	134400
9	15	1	25251	172800
10	15	1	27952	172800
11	5	2	3630	14400
12	5	1	3630	28800
13	15	1	34800	259200
14	15	1	42196	259200
15	15	1	23370	345600
16	15	1	27952	345600

Table 7: HSDPA UE category

### b) HSUPA

Due to inner loop power control requirements in HSUPA, a commercial communication test set should be used for the output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSUPA should be configured according to the values indicated below as well as other applicable procedures described in the WCDMA Handset and Release 5 HSUPA Data Device sections of 3G device.



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Sub -test₽	βοσ	βd€	β <sub>d</sub> (SF ) <sub>e</sub>	β₀∕β⋴ℴ	β <sub>hs</sub> (1	βec⁴³	$eta_{ ext{ed}}$	β <sub>e</sub> <sub>o+</sub> (SF  )+	β <sub>ed</sub> ↔ (code	CM <sup>(</sup> 2)↔ (dB )↔	MP R↓ (dB)↓	AG(4 )+1 Inde X+1	E- TFC I&
1₽	11/15(3)+3	15/15(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(	64₽	11/15(3)43	22/15₽	209/22 5↔	1039/225	<b>4</b> 0	1₽	1.0₽	0.0₽	20₽	75₽
2₽	6/15₽	15/15₽	64₽	6/15₽	12/15₽	12/15₽	94/75₽	4₽	1₽	3.0₄	2.0₽	12	67₽
3₽	15/15₽	9/15₽	64₽	15/9₽	30/15₽	30/15₽	β <sub>ed1</sub> :47/1 5 <sub>4</sub> β <sub>ed2:</sub> 47/1 5 <sub>4</sub>	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)43	15/15(4)(3	64₽	15/15(4)43	30/15₽	24/15₽	134/15₽	4₽	1₽	1.0₽	0.0₽	21₽	81₽

Note 1:  $\triangle$  ACK,  $\triangle$  NACK and  $\triangle$  CQI = 8  $A_{hs} = \beta_{hs}/\beta_e = 30/15$   $\beta_{hs} = 30/15 * \beta_{e4}$ 

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  $\beta_c/\beta_d$  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  $\beta_c/\beta_d$  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: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g<sub>e</sub>.

Note 6: Bed can not be set directly; it is set by Absolute Grant Value.

Table 8: Subtests for UMTS Release 6 HSUPA

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Speading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	1.4592
2	2	4	10	4	14484	1.4592
3	2	4	10	4	14484	1.4592
4	2	8	2	2	5772	2.9185
4	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6	4	8	10	2SF2&2SF	11484	5.76
(No DPDCH)	4	4	2	4	20000	2.00
7	4	8	2	2SF2&2SF	22996	?
(No DPDCH)	4	4	10	4	20000	?

NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4.UE categories 1 to 6 support QPSK only. UE category 7 supports QPSK and 16QAM.(TS25.306-7.3.0).

Table 9: HSUPA UE category



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#### c) DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a Second serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these settings are illustrated below:

Downlink Physical Channels are set as per 3GPP TS34.121-1 v9.0.0 E.5.0

Table E.5.0: Levels for HSDPA connection setup

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

Call is set up as per 3GPP TS34.108 v9.5.0 sub clause 7.3.13.

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122.

The measurements were performed with a Fixed Reference Channel (FRC) H-Set 12 with QPSK.

Parameter	Value
Nominal average inf. bit rate	60 kbit/s
Inter-TTI Distance	1 TTI's
Number of HARQ Processes	6 Processes
Information Bit Payload	120 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	960 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	3200 SMLs
Coding Rate	0.15
Number of Physical Channel Codes	1

Table 10: settings of required H-Set 12 QPSK acc. to 3GPP 34.121

#### Note:

- 1. The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table above.
- 2. Maximum number of transmission is limited to 1,i.e.,retransmission is not allowed. The redundancy and constellation version 0 shall be used.



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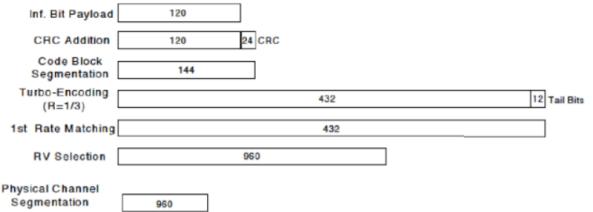


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

The following 4 Sub-tests for HSDPA were completed according to Release 5 procedures. A summary of subtest settings are illustrated below:

Sub-test₽	βc₽	$eta_{\mathbf{d}^\wp}$	β <sub>d</sub> ·(SF)₽	$\beta_c \cdot / \beta_{d^{\omega}}$	β <sub>hs</sub> (1)	CM(dB)(2)	MPR (dB)
1₽	2/15₽	15/15₽	64₽	2/15₽	4/15₽	0.0₽	0₽
2₽	12/15(3)	15/15(3)	64₽	12/15(3)₽	24/15₽	1.0₽	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:  $\triangle$  ACK,  $\triangle$  NACK and  $\triangle$  CQI=8  $A_{hs} = \beta_{hs}/\beta_c = 30/15$   $\beta_{hs} = 30/15 * \beta_c = 30/15$ 

Note 2: CM=1 for  $\beta_c/\beta_{d=}$  12/15,  $\beta_{hs}/\beta_c=$  24/15. For all other combinations of DPDCH, 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 3: For subtest 2 the  $\beta_c/\beta_d$  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  $\beta_d=15/15$ .

Up commands are set continuously to set the UE to Max power. Note:

- 1. The Dual Carriers transmission only applies to HSDPA physical channels
- 2. The Dual Carriers belong to the same Node and are on adjacent carriers.
- 3. The Dual Carriers do not support MIMO to serve UEs configured for dual cell operation
- 4. The Dual Carriers operate in the same frequency band.
- 5. The device doesn't support the modulation of 16QAM in uplink but 64QAM in downlink for DC-HSDPA mode.
- 6. The device doesn't support carrier aggregation for it just can operate in Release 8.



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### d) HSPA+

Per KDB941225D01, SAR is required for Rel. 7 HSPA+ when SAR is required for Rel. 6 HSPA; otherwise, the 3G SAR test reduction procedure is applied to (uplink) HSPA+ with 12.2 kbps RMC as the primary mode. Power is measured for HSPA+ that supports uplink 16 QAM according to configurations in Table C.11.1.4 of 3GPP TS 34.121-1 to determine SAR test reduction.

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

• Sub- test∂	β <sub>c</sub> ↓ (Note3)↓	βd∜	β <sub>HS</sub> (Note1)∂	β <sub>ec</sub> ₊/	β <sub>ed</sub> ↓ (2xSF2) ↓		CM- (dB)-	MPR- (dB)-	Index⊍	(Note 5)	E-TFCI (boost)↔
					(Note 4)₽	1		(Note 2)⊹	(Note 4)₽		
• 1₽	1₽	0↔	30/15₽	30/15	βed1: 30/15↔	βed3: 24/15↔	3.5₽	2.5₽	14₽	105₽	105₽
					βed2: 30/15₽	βed4: 24/15₽					

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

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

Note 3: DPDCH is not configured, therefore the  $\beta_0$  is set to 1 and  $\beta_0 = 0$  by default.

Note 4: βed can not be set directly; it is set by Absolute Grant Value. ₽

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



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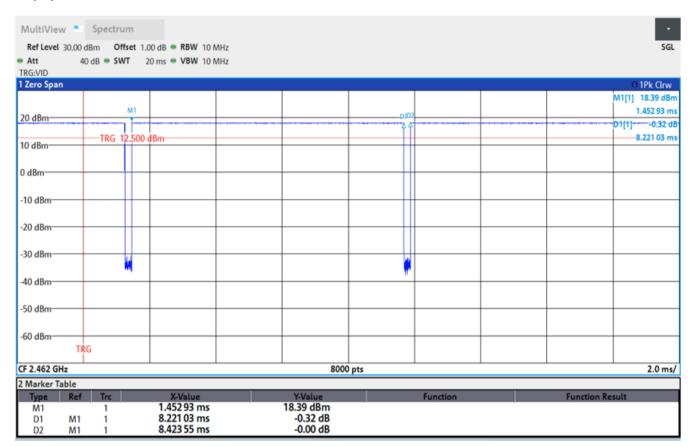
### 7.2.3 WiFi Test Configuration

A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

#### 7.2.3.1 Duty cycle

Wi-Fi 2.4GHz 802.11b:

Duty cycle=8.22103/8.42355 =97.60%





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#### 7.2.3.2 Initial Test Position SAR Test Reduction Procedure

DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. The initial test position procedure is described in the following:

- 1) . When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other (remaining) test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band. SAR is also not required for that exposure configuration in the subsequent test configuration(s).
- 2) . When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-g SAR conditions determined by area scans or next closest/smallest test separation distance and maximum RF coupling test positions based on manufacturer justification, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions (left, right, touch, tilt or subsequent surfaces and edges) are tested.
- 3) . For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. a) Additional power measurements may be required for this step, which should be limited to those necessary for identifying the subsequent highest output power channels.

### 7.2.3.3 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. SAR test reduction for subsequent highest output test channels is determined according to *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. 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 subsequent next highest measured output power channel(s) in the initial test configuration until reported SAR is  $\leq$  1.2 W/kg or all required channels are tested.

### 7.2.3.4 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, 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.

 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.



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2) . 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.

- 3) . 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.
  - SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.
  - b) 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. i) 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.
- 4) . 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 recursively applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:
  - a) replace "subsequent test configuration" with "next subsequent test configuration" (i.e., subsequent next highest specified maximum output power configuration)
  - b) replace "initial test configuration" with "all tested higher output power configurations"



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#### 7.2.3.5 2.4 GHz WiFi 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 following.

#### • 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:

- 1) . When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) . 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.
- 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, including sub-sections). SAR is not required for the following 2.4 GHz OFDM conditions.

- 1) . When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
- 2) . 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.

### SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 g/n OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. 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.



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### 7.2.4 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The Anritsu MT8820C was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

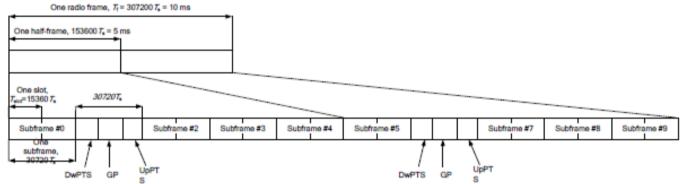
#### **TDD LTE test consideration**

For Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7.

LTE TDD Band support 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

### Frame structure type 2:





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Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special	'	nal cyclic prefix in do	'	Extended cyclic prefix in downlink				
subframe	DwPTS	UpPTS	3	DwPTS	Up	PTS		
configuration		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		
0	6592.Ts			7680.Ts				
1	19760.Ts			20480.Ts	2192.Ts	2560.Ts		
2	21952.Ts	2192.Ts	2560.Ts	23040.Ts	2192.15			
3	24144.Ts			25600.Ts				
4	26336.Ts			7680.Ts				
5	6592.Ts			20480.Ts	4204 To	5400 To		
6	19760.Ts			23040.Ts	4384.Ts	5120.Ts		
7	21952.Ts	4384.Ts	5120.Ts	25600.Ts				
8	24144.Ts			-	-	-		
9	13168.Ts			-	-	-		

### Uplink-downlink configurations.

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

### Calculated Duty Cycle=[Extended cyclic prefix in uplink x (Ts) x # of S + # of U]/10ms

Uplink- Downlink	Downlink-to- Uplink Switch-point		Subframe Number								Calculated	
Configuration	Periodicity	0	1	2	3	4	5	6	7	8	9	Duty Cycle (%)
0	5 ms	D	S	U	U	U	D	S	כ	U	J	63.33
1	5 ms	D	S	U	U	D	D	S	כ	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	כ	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.33



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### A) Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

#### B) MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

Modulation	Cha	nnel bandw	idth / Tra	ansmission	bandwidth (	(N <sub>RB</sub> )	MPR (dB)
	1.4	3.0	5	10	15	20	
	MHz	MHz	MHz	MHz	MHz	MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3

#### C) A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

### D) Largest channel bandwidth standalone SAR test requirements

### 1) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

#### 2) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.

### 3) QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 1) and 2) are  $\leq$  0.8 W/kg. Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

### 4) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is  $> \frac{1}{2}$  dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

### E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.



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### 8 Test Result

### 8.1 Measurement of RF conducted Power

### 8.1.1 Conducted Power of GSM

J.I.I Oolida	ctca i ow			(	SSM 850					
В	urst Output I	Power(d	Bm)		Tune up	Division Factors		rame-Avera put Power(c		Tune
Chani	nel	128	190	251		raciois	128	190	251	up
GSM(GMSK)	GSM	32.42	32.43	32.52	33.50	-9.19	23.23	23.24	23.33	24.31
CDDC/	1 TX Slot	32.39	32.34	32.36	33.50	-9.19	23.20	23.15	23.17	24.31
GPRS/ EGPRS	2 TX Slots	30.23	30.21	30.15	31.50	-6.18	24.05	24.03	23.97	25.32
(GMSK)	3 TX Slots	27.83	27.86	27.84	29.50	-4.42	23.41	23.44	23.42	25.08
(Gillort)	4 TX Slots	25.68	25.64	25.62	27.50	-3.17	22.51	22.47	22.45	24.33
	1 TX Slot	26.16	26.02	26.06	28.50	-9.19	16.97	16.83	16.87	19.31
EGPRS	2 TX Slots	23.93	23.83	23.81	25.50	-6.18	17.75	17.65	17.63	19.32
(8PSK)	3 TX Slots	22.12	21.92	21.90	24.50	-4.42	17.70	17.50	17.48	20.08
	4 TX Slots	19.68	19.86	19.82	22.50	-3.17	16.51	16.69	16.65	19.33
				G	SM 1900					
В	urst Output I	Power(d	Bm)		Tune up	Division		rame-Average put Power(d		Tune
Chani	nel	512	661	810	·	Factors	512	661	810	up
GSM(GMSK)	GSM	30.19	30.28	30.17	30.50	-9.19	21.00	21.09	20.98	21.31
0000/	1 TX Slot	30.13	30.24	30.16	30.50	-9.19	20.94	21.05	20.97	21.31
GPRS/ EGPRS	2 TX Slots	26.73	26.76	26.78	28.50	-6.18	20.55	20.58	20.60	22.32
(GMSK)	3 TX Slots	25.05	25.12	25.10	27.00	-4.42	20.63	20.70	20.68	22.58
(Giviort)	4 TX Slots	23.54	23.71	23.59	25.50	-3.17	20.37	20.54	20.42	22.33
	1 TX Slot	26.02	25.93	25.87	27.00	-9.19	16.83	16.74	16.68	17.81
EGPRS	2 TX Slots	23.43	23.31	23.13	24.00	-6.18	17.25	17.13	16.95	17.82
(8PSK)	3 TX Slots	21.82	21.65	21.63	23.50	-4.42	17.40	17.23	17.21	19.08
	4 TX Slots	20.72	20.66	20.55	22.50	-3.17	17.55	17.49	17.38	19.33

#### Note:

1) . CMW500 measures GSM peak and average output power for active timeslots. For SAR the time based average power is relevant. The difference in between depends on the duty cycle of the TDMA signal:

No. of timeslots	1	2	3	4
Duty Cycle	1:8.3	1:4.15	1:2.77	1:2.075
Time based avg. power compared to slotted avg. power	-9.19	-6.18	-4.42	-3.17

- The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below: Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8
- 3) . 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



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### 8.1.2 Conducted Power of WCDMA

o.i.z oonaactea i	Power of WCDMA	VCDMA Band II			
		Conducted Power	er(dBm)		
Channel	7.11.0.0.90	9262	9400	9538	Tune up
	12.2kbps RMC	22.65	22.56	22.51	23.70
WCDMA	12.2kbps AMR	22.63	22.55	22.50	23.70
	Subtest 1	21.90	21.81	21.76	22.90
	Subtest 2	21.86	21.80	21.73	22.90
HSDPA	Subtest 3	20.88	20.80	20.74	21.90
	Subtest 4	20.89	20.77	20.72	21.90
	Subtest 1	20.37	20.30	20.23	21.40
	Subtest 2	20.37	20.29	20.25	21.40
HSUPA	Subtest 3	20.35	20.29	20.23	21.40
	Subtest 4	20.37	20.31	20.25	21.40
	Subtest 5	21.85	21.79	21.75	22.90
	Subtest 1	21.87	21.78	21.74	22.90
DO HODDA	Subtest 2	21.85	21.77	21.74	22.90
DC-HSDPA	Subtest 3	20.88	20.78	20.72	21.90
	Subtest 4	20.90	20.80	20.73	21.90
HSPA+	16QAM	21.85	21.73	21.79	22.90
	W	/CDMA Band IV			
	Average	Conducted Powe	er(dBm)		
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	23.00	22.93	23.18	23.70
VVODIVIA	12.2kbps AMR	22.95	22.90	23.12	23.70
	Subtest 1	22.25	22.18	22.38	22.90
HSDPA	Subtest 2	22.20	22.17	22.42	22.90
HODEA	Subtest 3	21.22	21.15	21.43	21.90
	Subtest 4	21.24	21.13	21.43	21.90
	Subtest 1	20.74	20.65	20.88	21.40
	Subtest 2	20.72	20.66	20.89	21.40
HSUPA	Subtest 3	20.72	20.68	20.89	21.40
	Subtest 4	20.73	20.66	20.91	21.40
	Subtest 5	22.25	22.13	22.38	22.90
	Subtest 1	22.24	22.17	22.39	22.90
DC-HSDPA	Subtest 2	22.22	22.16	22.35	22.90
DO-HODI A	Subtest 3	21.25	21.18	21.41	21.90
	Subtest 4	21.24	21.18	21.41	21.90
HSPA+	16QAM	22.28	22.19	22.08	22.90

#### Note:

1) 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.



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### 8.1.3 Conducted Power of LTE

8.1.3 Condu	cted Power c						
	LTE Band	12			Conducted	Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
Dandwidth	Modulation	RD SIZE	RD Ollset	18607	18900	19193	Tune up
		1	0	20.66	20.40	20.38	21.50
		1	2	20.89	20.46	20.62	21.50
		1	5	20.74	20.24	20.53	21.50
	QPSK	3	0	20.61	20.40	20.39	21.50
		3	2	20.89	20.44	20.66	21.50
		3	3	20.74	20.24	20.56	21.50
1.4MHz		6	0	19.88	19.70	19.66	20.50
1.7111112		1	0	19.82	19.58	19.73	20.50
		1	2	19.74	19.51	19.67	20.50
		1	5	19.84	19.58	19.65	20.50
	16QAM	3	0	19.81	19.58	19.77	20.50
		3	2	19.74	19.48	19.64	20.50
		3	3	19.86	19.56	19.65	20.50
		6	0	18.92	18.38	18.77	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawidin	Modulation	IND SIZE	ND Ollset	18615	18900	19185	rune up
		1	0	20.63	20.41	20.40	21.50
		1	7	20.90	20.42	20.64	21.50
		1	14	20.72	20.24	20.55	21.50
	QPSK	8	0	19.92	19.66	19.63	20.50
		8	4	19.84	19.62	19.73	20.50
		8	7	19.76	19.53	19.67	20.50
3MHz		15	0	19.88	19.58	19.66	20.50
JIVII IZ		1	0	19.24	19.67	19.29	20.50
		1	7	19.98	19.16	20.00	20.50
		1	14	19.62	19.24	19.61	20.50
	16QAM	8	0	18.92	18.70	18.67	19.50
		8	4	19.01	18.72	18.87	19.50
		8	7	18.87	18.40	18.78	19.50
		15	0	18.81	18.61	18.65	19.50



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
24.14.11411	modulation	112 0120	7.5 311000	18625	18900	19175	·
		1	0	20.64	20.39	20.40	21.50
		1	13	20.91	20.45	20.62	21.50
		1	24	20.76	20.26	20.52	21.50
	QPSK	12	0	19.93	19.68	19.68	20.50
		12	6	19.84	19.62	19.77	20.50
		12	13	19.75	19.49	19.66	20.50
5MHz		25	0	19.84	19.53	19.67	20.50
JIVII 12		1	0	19.24	19.65	19.33	20.50
		1	13	20.02	19.15	19.98	20.50
		1	24	19.62	19.21	19.59	20.50
	16QAM	12	0	18.90	18.68	18.67	19.50
		12	6	19.05	18.73	18.86	19.50
		12	13	18.88	18.39	18.76	19.50
		25	0	18.80	18.63	18.65	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Ballawiatii	Modulation	IVD SIZE	IVD 011361	18650	18900	19150	Turie up
		1	0	20.62	20.42	20.41	21.50
		1	25	20.90	20.46	20.63	21.50
		1	25 49	20.90 20.73	20.46 20.23	20.63 20.55	21.50 21.50
	QPSK						
	QPSK	1	49	20.73	20.23	20.55	21.50
	QPSK	1 25	49 0	20.73 19.92	20.23 19.71	20.55 19.66	21.50 20.50
10MU-	QPSK	1 25 25	49 0 13	20.73 19.92 19.84	20.23 19.71 19.63	20.55 19.66 19.77	21.50 20.50 20.50
10MHz	QPSK	1 25 25 25	49 0 13 25	20.73 19.92 19.84 19.73	20.23 19.71 19.63 19.52	20.55 19.66 19.77 19.68	21.50 20.50 20.50 20.50
10MHz	QPSK	1 25 25 25 25 50	49 0 13 25 0	20.73 19.92 19.84 19.73 19.86	20.23 19.71 19.63 19.52 19.55	20.55 19.66 19.77 19.68 19.70	21.50 20.50 20.50 20.50 20.50
10MHz	QPSK	1 25 25 25 25 50 1	49 0 13 25 0	20.73 19.92 19.84 19.73 19.86 19.22	20.23 19.71 19.63 19.52 19.55 19.66	20.55 19.66 19.77 19.68 19.70 19.29	21.50 20.50 20.50 20.50 20.50 20.50
10MHz	QPSK 16QAM	1 25 25 25 50 1	49 0 13 25 0 0 25	20.73 19.92 19.84 19.73 19.86 19.22 20.00	20.23 19.71 19.63 19.52 19.55 19.66 19.16	20.55 19.66 19.77 19.68 19.70 19.29 20.01	21.50 20.50 20.50 20.50 20.50 20.50 20.50
10MHz		1 25 25 25 50 1 1	49 0 13 25 0 0 25 49	20.73 19.92 19.84 19.73 19.86 19.22 20.00 19.65	20.23 19.71 19.63 19.52 19.55 19.66 19.16	20.55 19.66 19.77 19.68 19.70 19.29 20.01 19.64	21.50 20.50 20.50 20.50 20.50 20.50 20.50 20.50
10MHz		1 25 25 25 50 1 1 1 25	49 0 13 25 0 0 25 49	20.73 19.92 19.84 19.73 19.86 19.22 20.00 19.65 18.88	20.23 19.71 19.63 19.52 19.55 19.66 19.16 19.21 18.67	20.55 19.66 19.77 19.68 19.70 19.29 20.01 19.64 18.62	21.50 20.50 20.50 20.50 20.50 20.50 20.50 20.50 19.50



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				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	18675	18900	19125	Tune up
		4	0				24.50
		1	0	20.64	20.40	20.38	21.50
		1	38	20.93	20.46	20.66	21.50
		1	74	20.75	20.26	20.52	21.50
	QPSK	36	0	19.88	19.68	19.67	20.50
		36	18	19.83	19.61	19.76	20.50
		36	39	19.76	19.50	19.67	20.50
15MHz		75	0	19.83	19.56	19.69	20.50
1311112		1	0	19.23	19.65	19.31	20.50
		1	38	20.02	19.18	19.99	20.50
		1	74	19.64	19.21	19.63	20.50
	16QAM	36	0	18.93	18.66	18.67	19.50
		36	18	19.02	18.74	18.86	19.50
		36	39	18.87	18.38	18.74	19.50
		75	0	18.83	18.61	18.65	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Balluwiutii	Modulation	ND SIZE	KB onset	18700	18900	19100	rune up
		1	0	20.71	20.47	20.46	21.50
			•	20.71	20.47	20.70	21.00
		1	50	20.99	20.47	20.72	21.50
		1	_				
	QPSK		50	20.99	20.52	20.72	21.50
	QPSK	1	50 99	20.99 20.81	20.52 20.31	20.72 20.62	21.50 21.50
	QPSK	1 50	50 99 0	20.99 20.81 19.98	20.52 20.31 19.76	20.72 20.62 19.73	21.50 21.50 20.50
2014	QPSK	1 50 50	50 99 0 25	20.99 20.81 19.98 19.91	20.52 20.31 19.76 19.68	20.72 20.62 19.73 19.83	21.50 21.50 20.50 20.50
20MHz	QPSK	1 50 50 50	50 99 0 25 50	20.99 20.81 19.98 19.91 19.81	20.52 20.31 19.76 19.68 19.58	20.72 20.62 19.73 19.83 19.74	21.50 21.50 20.50 20.50 20.50
20MHz	QPSK	1 50 50 50 100	50 99 0 25 50	20.99 20.81 19.98 19.91 19.81 19.93	20.52 20.31 19.76 19.68 19.58 19.63	20.72 20.62 19.73 19.83 19.74 19.75	21.50 21.50 20.50 20.50 20.50 20.50
20MHz	QPSK	1 50 50 50 100	50 99 0 25 50 0	20.99 20.81 19.98 19.91 19.81 19.93 19.31	20.52 20.31 19.76 19.68 19.58 19.63 19.73	20.72 20.62 19.73 19.83 19.74 19.75 19.38	21.50 21.50 20.50 20.50 20.50 20.50 20.50
20MHz	QPSK 16QAM	1 50 50 50 100 1	50 99 0 25 50 0	20.99 20.81 19.98 19.91 19.81 19.93 19.31 20.08	20.52 20.31 19.76 19.68 19.58 19.63 19.73 19.24	20.72 20.62 19.73 19.83 19.74 19.75 19.38 20.07	21.50 21.50 20.50 20.50 20.50 20.50 20.50
20MHz		1 50 50 50 100 1 1	50 99 0 25 50 0 0 50 99	20.99 20.81 19.98 19.91 19.81 19.93 19.31 20.08 19.70	20.52 20.31 19.76 19.68 19.58 19.63 19.73 19.24 19.30	20.72 20.62 19.73 19.83 19.74 19.75 19.38 20.07 19.69	21.50 21.50 20.50 20.50 20.50 20.50 20.50 20.50
20MHz		1 50 50 50 100 1 1 1 1 50	50 99 0 25 50 0 0 50 99	20.99 20.81 19.98 19.91 19.81 19.93 19.31 20.08 19.70 18.98	20.52 20.31 19.76 19.68 19.58 19.63 19.73 19.24 19.30 18.75	20.72 20.62 19.73 19.83 19.74 19.75 19.38 20.07 19.69 18.72	21.50 21.50 20.50 20.50 20.50 20.50 20.50 20.50 20.50 19.50



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				1 6	age: 5	5 01 100	
	LTE Band	4			Conducted	Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Bandwidth	Modulation	IND SIZE	IVD Olloet	19957	20175	20393	Turie up
		1	0	21.39	21.44	21.67	22.50
		1	2	21.55	21.78	21.87	22.50
		1	5	21.17	21.29	21.16	22.50
	QPSK	3	0	21.35	21.47	21.64	22.50
		3	2	21.57	21.80	21.83	22.50
		3	3	21.22	21.29	21.14	22.50
1.4MHz		6	0	20.70	20.66	20.74	21.50
1.4111112		1	0	20.59	20.58	20.74	21.50
		1	2	20.66	20.59	20.62	21.50
		1	5	20.74	20.61	20.60	21.50
	16QAM	3	0	20.61	20.60	20.71	21.50
		3	2	20.65	20.57	20.61	21.50
		3	3	20.76	20.62	20.59	21.50
		6	0	19.77	19.63	19.77	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Balluwidili	Modulation	ND SIZE	ND Ollset	19965	20175	20385	rune up
		1	0	21.37	21.46	21.68	22.50
		1	7	21.59	21.78	21.82	22.50
		1	14	21.18	21.29	21.14	22.50
	QPSK	8	0	20.67	20.70	20.72	21.50
		8	4	20.59	20.57	20.72	21.50
		8	7	20.69	20.61	20.60	21.50
3MHz		15	0	20.75	20.59	20.61	21.50
JIVITZ		1	0	20.20	20.09	20.78	21.50
		1	7	20.32	20.47	21.18	21.50
		1	14	19.89	19.73	19.89	21.50
	16QAM	8	0	19.77	19.67	19.77	20.50
		8	4	19.68	19.66	19.74	20.50
		8	7	19.64	19.65	19.65	20.50
		15	0	19.65	19.60	19.57	20.50



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				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	19975	20175	20375	Tune up
		1	0	21.37	21.48	21.64	22.50
		1	13	21.59	21.46	21.85	22.50
		1					
	ODCK		24	21.20	21.29	21.12	22.50
	QPSK	12	0	20.70	20.71	20.76	21.50
		12	6	20.59	20.57	20.73	21.50
		12	13	20.66	20.58	20.58	21.50
5MHz		25	0	20.78	20.60	20.60	21.50
		1	0	20.22	20.11	20.82	21.50
		1	13	20.29	20.47	21.20	21.50
		1	24	19.85	19.77	19.86	21.50
	16QAM	12	0	19.80	19.66	19.77	20.50
		12	6	19.72	19.68	19.72	20.50
		12	13	19.65	19.64	19.66	20.50
		25	0	19.68	19.57	19.57	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawiath	Modulation	IND SIZE	ND 01136t	20000	20175	20350	rune up
		1	0	21.36	21.48	21.64	22.50
		1	25	21.56	21.82	21.83	22.50
		1	25 49	21.56 21.21	21.82 21.29	21.83 21.15	22.50 22.50
	QPSK						
	QPSK	1	49	21.21	21.29	21.15	22.50
	QPSK	1 25	49 0	21.21 20.69	21.29 20.66	21.15 20.72	22.50 21.50
40141	QPSK	1 25 25	49 0 13	21.21 20.69 20.62	21.29 20.66 20.56	21.15 20.72 20.69	22.50 21.50 21.50
10MHz	QPSK	1 25 25 25 25	49 0 13 25	21.21 20.69 20.62 20.66	21.29 20.66 20.56 20.61	21.15 20.72 20.69 20.63	22.50 21.50 21.50 21.50
10MHz	QPSK	1 25 25 25 25 50	49 0 13 25 0	21.21 20.69 20.62 20.66 20.73	21.29 20.66 20.56 20.61 20.62	21.15 20.72 20.69 20.63 20.62	22.50 21.50 21.50 21.50 21.50
10MHz	QPSK	1 25 25 25 25 50 1	49 0 13 25 0	21.21 20.69 20.62 20.66 20.73 20.18	21.29 20.66 20.56 20.61 20.62 20.10	21.15 20.72 20.69 20.63 20.62 20.81	22.50 21.50 21.50 21.50 21.50 21.50
10MHz	QPSK 16QAM	1 25 25 25 50 1	49 0 13 25 0 0 25	21.21 20.69 20.62 20.66 20.73 20.18 20.30	21.29 20.66 20.56 20.61 20.62 20.10 20.48	21.15 20.72 20.69 20.63 20.62 20.81 21.21	22.50 21.50 21.50 21.50 21.50 21.50 21.50
10MHz		1 25 25 25 50 1 1	49 0 13 25 0 0 25 49	21.21 20.69 20.62 20.66 20.73 20.18 20.30 19.89	21.29 20.66 20.56 20.61 20.62 20.10 20.48 19.76	21.15 20.72 20.69 20.63 20.62 20.81 21.21 19.87	22.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50
10MHz		1 25 25 25 50 1 1 1 25	49 0 13 25 0 0 25 49	21.21 20.69 20.62 20.66 20.73 20.18 20.30 19.89 19.75	21.29 20.66 20.56 20.61 20.62 20.10 20.48 19.76 19.66	21.15 20.72 20.69 20.63 20.62 20.81 21.21 19.87 19.77	22.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 20.50



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						7 OT 100	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
			. 15 011001	20025	20175	20325	·
		1	0	21.36	21.46	21.67	22.50
		1	38	21.58	21.77	21.82	22.50
		1	74	21.19	21.30	21.13	22.50
	QPSK	36	0	20.69	20.70	20.73	21.50
		36	18	20.58	20.57	20.74	21.50
		36	39	20.65	20.61	20.63	21.50
15MHz		75	0	20.76	20.57	20.61	21.50
13141112		1	0	20.18	20.13	20.77	21.50
		1	38	20.29	20.46	21.18	21.50
		1	74	19.84	19.72	19.88	21.50
	16QAM	36	0	19.75	19.67	19.77	20.50
		36	18	19.72	19.69	19.72	20.50
		36	39	19.65	19.64	19.63	20.50
		75	0	19.67	19.56	19.57	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawidin	Modulation	IVD SIZE	IVD 011961	20050	20175	20300	rune up
		1	0	21.45	21.53	21.73	22.50
		1	0 50	21.45 21.64	21.53 21.87	21.73 21.82	22.50 22.50
			_				
	QPSK	1	50	21.64	21.87	21.82	22.50
	QPSK	1	50 99	21.64 21.27	21.87 21.38	21.82 21.22	22.50 22.50
	QPSK	1 1 50	50 99 0	21.64 21.27 20.76	21.87 21.38 20.76	21.82 21.22 20.82	22.50 22.50 21.50
20MH~	QPSK	1 1 50 50	50 99 0 25	21.64 21.27 20.76 20.67	21.87 21.38 20.76 20.66	21.82 21.22 20.82 20.79	22.50 22.50 21.50 21.50
20MHz	QPSK	1 1 50 50 50	50 99 0 25 50	21.64 21.27 20.76 20.67 20.74	21.87 21.38 20.76 20.66 20.67	21.82 21.22 20.82 20.79 20.68	22.50 22.50 21.50 21.50 21.50
20MHz	QPSK	1 1 50 50 50 100	50 99 0 25 50	21.64 21.27 20.76 20.67 20.74 20.83	21.87 21.38 20.76 20.66 20.67 20.67	21.82 21.22 20.82 20.79 20.68 20.68	22.50 22.50 21.50 21.50 21.50 21.50
20MHz	QPSK	1 1 50 50 50 100	50 99 0 25 50 0	21.64 21.27 20.76 20.67 20.74 20.83 20.27	21.87 21.38 20.76 20.66 20.67 20.67 20.19	21.82 21.22 20.82 20.79 20.68 20.68 20.87	22.50 22.50 21.50 21.50 21.50 21.50 21.50
20MHz	QPSK 16QAM	1 1 50 50 50 100 1	50 99 0 25 50 0	21.64 21.27 20.76 20.67 20.74 20.83 20.27 20.39	21.87 21.38 20.76 20.66 20.67 20.67 20.19 20.55	21.82 21.22 20.82 20.79 20.68 20.68 20.87 21.26	22.50 22.50 21.50 21.50 21.50 21.50 21.50 21.50
20MHz		1 1 50 50 50 100 1 1	50 99 0 25 50 0 0 50 99	21.64 21.27 20.76 20.67 20.74 20.83 20.27 20.39 19.94	21.87 21.38 20.76 20.66 20.67 20.67 20.19 20.55 19.82	21.82 21.22 20.82 20.79 20.68 20.68 20.87 21.26 19.96	22.50 22.50 21.50 21.50 21.50 21.50 21.50 21.50
20MHz		1 50 50 50 100 1 1 1 50	50 99 0 25 50 0 0 50 99	21.64 21.27 20.76 20.67 20.74 20.83 20.27 20.39 19.94 19.85	21.87 21.38 20.76 20.66 20.67 20.67 20.19 20.55 19.82 19.73	21.82 21.22 20.82 20.79 20.68 20.68 20.87 21.26 19.96 19.84	22.50 22.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 20.50



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				, ,		- / >	
	LTE Band	15			Conducted	Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tupo up
Danawiani	Modulation	KD SIZE	KD Ollset	20407	20525	20643	Tune up
		1	0	22.83	22.99	23.29	23.50
		1	2	23.06	23.17	23.33	23.50
		1	5	22.84	23.08	23.24	23.50
	QPSK	3	0	23.10	23.21	23.40	23.50
		3	2	23.16	23.23	23.32	23.50
		3	3	23.12	23.27	23.36	23.50
1.4MHz		6	0	22.07	22.16	22.26	22.50
1.4111712		1	0	21.65	21.66	22.23	22.50
		1	2	21.92	21.59	21.86	22.50
		1	5	21.61	21.51	21.88	22.50
	16QAM	3	0	21.96	22.10	22.45	22.50
		3	2	22.16	22.07	22.39	22.50
		3	3	22.02	22.09	22.21	22.50
		6	0	20.98	20.92	21.38	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawidin	Modulation	KD SIZE	KD Ollset	20415	20525	20635	rune up
		1	0	23.18	22.83	23.10	23.50
		1	7	23.24	23.16	23.16	23.50
		1	14	23.12	23.33	22.99	23.50
	QPSK	8	0	22.07	22.10	22.11	22.50
		8	4	22.13	22.09	22.23	22.50
		8	7	22.10	22.02	22.21	22.50
3MHz		15	0	22.08	22.16	22.19	22.50
ЭІУІП		1	0	21.92	21.72	21.72	22.50
		1	7	21.79	21.79	22.07	22.50
		1	14	21.90	22.13	22.11	22.50
	16QAM	8	0	20.83	21.14	21.28	21.50
		8	4	20.91	21.23	21.33	21.50
		8	7	21.08	21.42	21.41	21.50
		15	0	21.21	21.28	21.26	21.50



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				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20425	20525	20625	Tune up
		1	0	22.91	22.55	23.14	23.50
		1	13	22.80	22.96	23.02	23.50
		1	24	22.50	23.08	23.06	23.50
	QPSK	12	0	22.00	22.12	22.33	22.50
		12	6	22.09	22.14	22.22	22.50
		12	13	22.00	22.19	22.26	22.50
		25	0	22.09	22.16	22.24	22.50
5MHz		1	0	21.72	22.48	21.80	22.50
		1	13	21.53	21.97	21.89	22.50
		1	24	21.97	22.32	22.21	22.50
	16QAM	12	0	20.89	20.99	21.26	21.50
		12	6	21.07	21.09	21.08	21.50
		12	13	20.96	20.96	21.15	21.50
		25	0	21.12	21.13	21.31	21.50
		_~	ŭ				=
Randwidth	Modulation			Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset				Tune up
Bandwidth	Modulation			Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	Channel 20450	Channel 20525	Channel 20600	Tune up
Bandwidth	Modulation	RB size	RB offset	Channel 20450 23.06	Channel 20525 23.00	Channel 20600 22.96	Tune up 23.50
Bandwidth	Modulation QPSK	RB size	RB offset  0 25	Channel 20450 23.06 23.38	Channel 20525 23.00 23.20	Channel 20600 22.96 23.30	Tune up 23.50 23.50
Bandwidth		RB size  1  1  1	RB offset 0 25 49	Channel 20450 23.06 23.38 23.31	Channel 20525 23.00 23.20 23.09	Channel 20600 22.96 23.30 23.13	23.50 23.50 23.50 23.50
Bandwidth		RB size  1 1 1 25	RB offset  0 25 49 0	Channel 20450 23.06 23.38 23.31 22.15	Channel 20525 23.00 23.20 23.09 22.20	Channel 20600 22.96 23.30 23.13 22.29	23.50 23.50 23.50 23.50 22.50
		RB size  1 1 1 25 25	RB offset  0 25 49 0 13	Channel 20450 23.06 23.38 23.31 22.15 22.26	Channel 20525 23.00 23.20 23.09 22.20 22.15	Channel 20600 22.96 23.30 23.13 22.29 22.28	Tune up  23.50  23.50  23.50  23.50  22.50
Bandwidth  10MHz		RB size  1 1 1 25 25 25	RB offset  0 25 49 0 13 25	Channel 20450 23.06 23.38 23.31 22.15 22.26 22.21	Channel 20525 23.00 23.20 23.09 22.20 22.15 22.42	Channel 20600 22.96 23.30 23.13 22.29 22.28 22.15	23.50 23.50 23.50 23.50 22.50 22.50 22.50
		RB size  1 1 1 25 25 25 50 1	RB offset  0 25 49 0 13 25 0	Channel 20450 23.06 23.38 23.31 22.15 22.26 22.21 22.24 22.10 21.76	Channel 20525 23.00 23.20 23.09 22.20 22.15 22.42 22.15 21.20 21.92	Channel 20600 22.96 23.30 23.13 22.29 22.28 22.15 22.23 21.47 21.87	Tune up  23.50 23.50 23.50 22.50 22.50 22.50 22.50 22.50 22.50 22.50
	QPSK	RB size  1 1 1 25 25 25 50 1 1 1	RB offset  0 25 49 0 13 25 0 0 25 49	Channel 20450 23.06 23.38 23.31 22.15 22.26 22.21 22.24 22.10 21.76 21.71	Channel 20525 23.00 23.20 23.09 22.20 22.15 22.42 22.15 21.20 21.92 21.78	Channel 20600 22.96 23.30 23.13 22.29 22.28 22.15 22.23 21.47 21.87 22.00	Tune up  23.50 23.50 23.50 22.50 22.50 22.50 22.50 22.50 22.50 22.50
		RB size  1 1 1 1 25 25 25 50 1 1 1 25	RB offset  0 25 49 0 13 25 0 0 25	Channel 20450 23.06 23.38 23.31 22.15 22.26 22.21 22.24 22.10 21.76	Channel 20525 23.00 23.20 23.09 22.20 22.15 22.42 22.15 21.20 21.92 21.78 21.25	Channel 20600 22.96 23.30 23.13 22.29 22.28 22.15 22.23 21.47 21.87	Tune up  23.50 23.50 23.50 22.50 22.50 22.50 22.50 22.50 22.50 22.50
	QPSK	RB size  1 1 1 25 25 25 50 1 1 1 25 25	RB offset  0 25 49 0 13 25 0 0 25 49 0 13 13 15 15 16 17 18	Channel 20450 23.06 23.38 23.31 22.15 22.26 22.21 22.24 22.10 21.76 21.71 21.20 21.15	Channel 20525 23.00 23.20 23.09 22.20 22.15 22.42 22.15 21.20 21.92 21.78 21.25 21.23	Channel 20600 22.96 23.30 23.13 22.29 22.28 22.15 22.23 21.47 21.87 22.00 21.19 21.26	Tune up  23.50 23.50 23.50 22.50 22.50 22.50 22.50 22.50 22.50 22.50 21.50 21.50
	QPSK	RB size  1 1 1 1 25 25 25 50 1 1 1 25	RB offset  0 25 49 0 13 25 0 0 25 49 0	Channel 20450 23.06 23.38 23.31 22.15 22.26 22.21 22.24 22.10 21.76 21.71 21.20	Channel 20525 23.00 23.20 23.09 22.20 22.15 22.42 22.15 21.20 21.92 21.78 21.25	Channel 20600 22.96 23.30 23.13 22.29 22.28 22.15 22.23 21.47 21.87 22.00 21.19	Tune up  23.50 23.50 23.50 22.50 22.50 22.50 22.50 22.50 22.50 22.50 22.50 22.50 21.50



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	LTE Band	12			Conducted	Power(dBm)	
Donduidth	Modulation	DD size	RB offset	Channel	Channel	Channel	Tungun
Bandwidth	Modulation	RB size	RB Ollset	23017	23095	23173	Tune up
		1	0	23.47	23.38	23.27	24.00
		1	2	23.52	23.40	23.42	24.00
		1	5	23.47	23.54	23.28	24.00
	QPSK	3	0	23.48	23.55	23.63	24.00
		3	2	23.75	23.61	23.60	24.00
		3	3	23.65	23.61	23.60	24.00
1 AMU-	1.4MHz	6	0	22.45	22.67	22.60	23.00
1.411172		1	0	21.95	22.41	22.36	23.00
		1	2	21.84	22.36	22.91	23.00
		1	5	22.58	22.13	22.86	23.00
	16QAM	3	0	22.43	22.49	22.50	23.00
		3	2	22.34	22.61	22.61	23.00
		3	3	22.60	22.53	22.59	23.00 23.00 23.00
		6	0	21.42	21.42	21.49	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
Danuwium	Modulation	KD SIZE	KD Ollset	23025	23095	23165	Tune up
		1	0	22.66	22.63	22.59	24.00
		1	7	22.34	22.76	22.71	24.00
		1	14	22.78	22.20	22.56	24.00
	QPSK	8	0	22.26	22.83	22.41	23.00
		8	4	22.19	22.61	22.49	23.00
		8	7	22.32	22.49	22.51	23.00
3MHz		15	0	21.76	21.70	21.56	23.00
SIVITIZ		1	0	21.80	21.67	21.00	23.00
		1	7	22.51	22.29	22.48	23.00
		1	14	22.44	22.48	22.57	23.00
	16QAM	8	0	21.30	21.37	21.28	22.00
		8	4	21.50	21.53	21.51	22.00
		8	7	21.53	21.65	21.57	22.00
		15	0	21.54	21.49	21.60	22.00



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						1 01 100	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
	modulation	112 0.20	112 011001	23035	23095	23155	rano ap
		1	0	23.34	23.49	23.47	24.00
		1	13	23.60	23.54	23.50	24.00
		1	24	23.36	23.49	23.37	24.00
	QPSK	12	0	22.53	22.61	22.58	23.00
		12	6	22.64	22.69	22.47	23.00
		12	13	22.52	22.64	22.44	23.00
5MHz		25	0	22.54	22.62	22.51	23.00
SIVITIZ		1	0	22.39	22.40	22.37	23.00
		1	13	22.29	22.58	22.09	23.00
		1	24	22.83	22.10	22.20	23.00
	16QAM	12	0	21.61	21.49	21.45	22.00
		12	6	21.66	21.45	21.32	22.00
		12	13	21.61	21.54	21.36	23.00 22.00
		25	0	21.54	21.80	21.49	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tupo up
Dandwidth	Modulation	IVD SIZE	IVD Ollset	23060	23095	23130	Turie up
		1	0	23.09	23.36	23.43	24.00
		1	25	23.68	23.75	23.74	24.00
		1	25 49	23.68 23.46	<b>23.75</b> 23.42	23.74 23.41	24.00 24.00
	QPSK						
	QPSK	1	49	23.46	23.42	23.41	24.00
	QPSK	1 25	49 0	23.46 22.56	23.42 <b>22.78</b>	23.41 22.77	24.00 23.00
10M⊔ <del>-</del>	QPSK	1 25 25	49 0 13	23.46 22.56 22.65	23.42 22.78 22.69	23.41 22.77 22.73	24.00 23.00 23.00
10MHz	QPSK	1 25 25 25 25	49 0 13 25	23.46 22.56 22.65 22.50	23.42 22.78 22.69 22.70	23.41 22.77 22.73 22.66	24.00 23.00 23.00 23.00
10MHz	QPSK	1 25 25 25 25 50	49 0 13 25 0	23.46 22.56 22.65 22.50 22.55	23.42 22.78 22.69 22.70 22.71	23.41 22.77 22.73 22.66 22.81	24.00 23.00 23.00 23.00 23.00
10MHz	QPSK	1 25 25 25 25 50 1	49 0 13 25 0	23.46 22.56 22.65 22.50 22.55 21.77	23.42 22.78 22.69 22.70 22.71 22.19	23.41 22.77 22.73 22.66 22.81 21.88	24.00 23.00 23.00 23.00 23.00 23.00
10MHz	QPSK 16QAM	1 25 25 25 25 50 1	49 0 13 25 0 0 25	23.46 22.56 22.65 22.50 22.55 21.77 22.14	23.42 22.78 22.69 22.70 22.71 22.19 22.68	23.41 22.77 22.73 22.66 22.81 21.88 22.77	24.00 23.00 23.00 23.00 23.00 23.00 23.00
10MHz		1 25 25 25 50 1 1	49 0 13 25 0 0 25 49	23.46 22.56 22.65 22.50 22.55 21.77 22.14 21.90	23.42 22.78 22.69 22.70 22.71 22.19 22.68 22.21	23.41 22.77 22.73 22.66 22.81 21.88 22.77 22.14	24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00
10MHz		1 25 25 25 50 1 1 1 25	49 0 13 25 0 0 25 49	23.46 22.56 22.65 22.50 22.55 21.77 22.14 21.90 21.53	23.42 22.78 22.69 22.70 22.71 22.19 22.68 22.21 21.44	23.41 22.77 22.73 22.66 22.81 21.88 22.77 22.14 21.73	24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00



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LTE Band 25 Conducted Power(dBm) Channel Channel Channel Bandwidth Modulation RB size **RB** offset Tune up 26047 26365 26683 1 20.47 20.49 20.60 21.50 1 2 20.71 20.91 21.05 21.50 1 5 20.19 20.84 20.52 21.50 3 0 20.45 20.45 21.50 **QPSK** 20.60 3 2 20.72 20.88 21.02 21.50 3 3 20.14 20.84 20.51 21.50 6 0 19.78 19.77 19.81 20.50 1.4MHz 0 19.70 19.76 20.50 1 19.88 1 2 19.64 19.84 19.79 20.50 1 5 19.51 19.08 19.39 20.50 3 0 19.69 19.75 19.85 20.50 16QAM 3 2 19.69 19.88 19.76 20.50 3 3 19.51 19.06 19.39 20.50 6 0 18.82 18.85 18.81 19.50 Channel Channel Channel **Bandwidth** Modulation RB size **RB** offset Tune up 26055 26365 26675 1 0 20.48 20.49 20.57 21.50 1 7 20.71 20.92 21.02 21.50 1 14 20.18 20.81 20.53 21.50 19.78 19.71 **QPSK** 8 0 19.78 20.50 8 4 19.78 19.76 19.78 20.50 8 7 19.68 19.75 19.86 20.50 15 0 19.66 19.89 19.79 20.50 3MHz 1 0 19.49 19.05 19.40 20.50 1 7 20.32 20.01 20.04 20.50 14 19.29 19.48 1 18.96 20.50 16QAM 8 0 18.80 18.84 18.77 19.50 4 8 18.86 18.86 18.93 19.50



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Banawiatii	Modulation	TO SIZO	NB onset	26052	26365	26665	Turic up
		1	0	20.44	20.45	20.60	21.50
		1	13	20.68	20.88	21.04	21.50
		1	24	20.19	20.83	20.53	21.50
	QPSK	12	0	19.78	19.68	19.77	20.50
		12	6	19.81	19.75	19.80	20.50
		12	13	19.68	19.74	19.84	20.50
5MHz		25	0	19.69	19.89	19.79	20.50
SIVITIZ		1	0	19.49	19.05	19.42	20.50
		1	13	20.30	20.05	20.06	20.50
		1	24	18.97	19.31	19.48	20.50
	16QAM	12	0	18.75	18.83	18.75	19.50
		12	6	18.87	18.86	18.90	19.50
		12	13	18.72	18.80	18.84	19.50
		25	0	18.83	18.88	18.79	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune un
Danawidin		IND SIZE	ND onset	26090	26365	26640	Turie up
		1	0	20.46	20.45	20.60	21.50
		1	0 25	20.46 20.72	20.45 20.89	20.60 21.06	21.50 21.50
	QPSK	1	25	20.72	20.89	21.06	21.50
	QPSK	1	25 49	20.72 20.17	20.89 20.83	21.06 20.54	21.50 21.50
	QPSK	1 1 25	25 49 0	20.72 20.17 19.74	20.89 20.83 19.68	21.06 20.54 19.77	21.50 21.50 20.50
10MH <del>2</del>	QPSK	1 1 25 25	25 49 0 13	20.72 20.17 19.74 19.79	20.89 20.83 19.68 19.77	21.06 20.54 19.77 19.79	21.50 21.50 20.50 20.50
10MHz	QPSK	1 1 25 25 25 25	25 49 0 13 25	20.72 20.17 19.74 19.79 19.67	20.89 20.83 19.68 19.77 19.77	21.06 20.54 19.77 19.79 19.84	21.50 21.50 20.50 20.50 20.50
10MHz	QPSK	1 1 25 25 25 25 50	25 49 0 13 25 0	20.72 20.17 19.74 19.79 19.67 19.69	20.89 20.83 19.68 19.77 19.77	21.06 20.54 19.77 19.79 19.84 19.79	20.50 20.50 20.50 20.50 20.50 19.50 19.50 19.50 Tune up 21.50 21.50 20.50 20.50 20.50
10MHz	QPSK	1 1 25 25 25 25 50 1	25 49 0 13 25 0	20.72 20.17 19.74 19.79 19.67 19.69 19.50	20.89 20.83 19.68 19.77 19.77 19.85 19.08	21.06 20.54 19.77 19.79 19.84 19.79 19.40	21.50 21.50 20.50 20.50 20.50 20.50 20.50
10MHz	QPSK 16QAM	1 1 25 25 25 25 50 1	25 49 0 13 25 0 0 25	20.72 20.17 19.74 19.79 19.67 19.69 19.50 20.32	20.89 20.83 19.68 19.77 19.77 19.85 19.08 20.02	21.06 20.54 19.77 19.79 19.84 19.79 19.40 20.06	21.50 21.50 20.50 20.50 20.50 20.50 20.50 20.50
10MHz		1 1 25 25 25 25 50 1 1	25 49 0 13 25 0 0 25 49	20.72 20.17 19.74 19.79 19.67 19.69 19.50 20.32 19.00	20.89 20.83 19.68 19.77 19.77 19.85 19.08 20.02 19.31	21.06 20.54 19.77 19.79 19.84 19.79 19.40 20.06 19.44	21.50 21.50 20.50 20.50 20.50 20.50 20.50 20.50 20.50 19.50
10MHz		1 1 25 25 25 50 1 1 1 25	25 49 0 13 25 0 0 25 49	20.72 20.17 19.74 19.79 19.67 19.69 19.50 20.32 19.00 18.76	20.89 20.83 19.68 19.77 19.77 19.85 19.08 20.02 19.31 18.85	21.06 20.54 19.77 19.79 19.84 19.79 19.40 20.06 19.44 18.80	21.50 21.50 20.50 20.50 20.50 20.50 20.50 20.50 20.50 19.50



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
20.10.110.11	THOUGH AND THE	112 0120		26115	26365	26615	•	
		1	0	20.44	20.46	20.59	21.50	
		1	38	20.69	20.89	21.06	21.50	
		1	74	20.18	20.82	20.50	21.50	
	QPSK	36	0	19.78	19.66	19.79	20.50	
		36	18	19.77	19.77	19.80	20.50	
		36	39	19.72	19.75	19.86	20.50	
15MHz		75	0	19.68	19.85	19.76	20.50	
ISWINZ		1	0	19.52	19.07	19.43	20.50	
		1	38	20.33	20.02	20.04	20.50	
		1	74	18.98	19.28	19.46	20.50	
	16QAM	36	0	18.77	18.84	18.76	19.50	
		36	18	18.86	18.86	18.93	19.50	
		36	39	18.67	18.83	18.84	19.50	
		75	0	18.80	18.87	18.82	19.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
Danawidin	Modulation	IVD SIZE	ND onset	26140	26365	26590	Turie up	
		1	0	20.54	20.55	20.65	21.50	
		1	50	20.78	20.98	21.11	21.50	
		1	50 99	<b>20.78</b> 20.24	<b>20.98</b> 20.91	<b>21.11</b> 20.60	21.50 21.50	
	QPSK							
	QPSK	1	99	20.24	20.91	20.60	21.50	
	QPSK	1 50	99 0	20.24 <b>19.95</b>	20.91 19.76	20.60 19.87	21.50 20.50	
20MH~	QPSK	1 50 50	99 0 25	20.24 <b>19.95</b> 19.87	20.91 19.76 19.83	20.60 19.87 19.87	21.50 20.50 20.50	
20MHz	QPSK	1 50 50 50	99 0 25 50	20.24 <b>19.95</b> 19.87 19.77	20.91 19.76 19.83 19.83	20.60 19.87 19.87 19.94	21.50 20.50 20.50 20.50	
20MHz	QPSK	1 50 50 50 100	99 0 25 50 0	20.24 <b>19.95</b> 19.87 19.77 <b>19.96</b>	20.91 19.76 19.83 19.83 19.94	20.60 19.87 19.87 19.94 19.86	21.50 20.50 20.50 20.50 20.50	
20MHz	QPSK	1 50 50 50 100	99 0 25 50 0	20.24 19.95 19.87 19.77 19.96 19.57	20.91 19.76 19.83 19.83 19.94 19.14	20.60 19.87 19.87 19.94 19.86 19.48	21.50 20.50 20.50 20.50 20.50 20.50	
20MHz	QPSK 16QAM	1 50 50 50 100 1	99 0 25 50 0 0 50	20.24 19.95 19.87 19.77 19.96 19.57 20.39	20.91 19.76 19.83 19.83 19.94 19.14 20.10	20.60 19.87 19.87 19.94 19.86 19.48 20.11	21.50 20.50 20.50 20.50 20.50 20.50 20.50	
20MHz		1 50 50 50 100 1 1	99 0 25 50 0 0 50 99	20.24 19.95 19.87 19.77 19.96 19.57 20.39 19.05	20.91 19.76 19.83 19.83 19.94 19.14 20.10 19.38	20.60 19.87 19.87 19.94 19.86 19.48 20.11 19.53	21.50 20.50 20.50 20.50 20.50 20.50 20.50	
20MHz		1 50 50 50 100 1 1 1 1 50	99 0 25 50 0 0 50 99	20.24 19.95 19.87 19.77 19.96 19.57 20.39 19.05 18.85	20.91 19.76 19.83 19.83 19.94 19.14 20.10 19.38 18.90	20.60 19.87 19.87 19.94 19.86 19.48 20.11 19.53 18.85	21.50 20.50 20.50 20.50 20.50 20.50 20.50 20.50 19.50	



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	LTE Band	26			Conducted	Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel 26697	Channel 26865	Channel 27033	Tune up	
		1	0	23.00	23.04	23.23	23.50	
		1	2	23.29	23.18	23.19	23.50	
		1	5	23.16	23.04	23.30	23.50 23.50 23.50 23.50 23.50 23.50 22.50 22.50 22.50 22.50 22.50 21.50 Tune up 23.50 23.50 23.50 23.50 23.50	
	QPSK	3	0	23.36	23.27	23.30	23.50	
		3	2	23.26	23.47	23.23	23.50	
		3	3	23.37	23.32	23.44	23.50	
1.4MHz		6	0	22.17	22.36	22.27	22.50	
1.4111112		1	0	21.82	22.35	21.90	22.50	
		1	2	22.10	22.40	22.15	22.50	
		1	5	22.01	22.50	21.89	22.50 22.50	
	16QAM	3	0	22.16	22.33	22.14	22.50	
		3	2	22.06	22.34	22.17	22.50 22.50 22.50 22.50 22.50 22.50 21.50 Tune up 23.50 23.50	
		3	3	22.01	22.27	22.00		
		6	0	21.27	21.34	21.30	21.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune un	
Barrawiatii	Modulation	110 3120	NB onoct	26705	26865	27025	•	
		1	0	23.47	23.26	23.13		
		1	7	23.36	23.42	23.13		
	QPSK	1	14	23.43	23.22	23.09		
		8	0	22.18	22.27	22.35		
		8	4	22.24	22.36	22.21		
		8	7	22.25	22.34	22.21	23.50 23.50 23.50 22.50 22.50 22.50 22.50	
3MHz		15	0	22.27	22.40	22.26		
····-		1	0	22.41	22.42	22.13		
		1	7	22.04	22.41	21.95		
	400414	1	14	21.89	22.07	21.74		
	16QAM	8	0	21.17	21.42	21.34		
		8	4	21.30	21.31	21.23		
		8	7	21.38	21.41	21.31		
		15	0	21.32	21.41	21.33	21.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
		4	0	26715	26865	27015	,	
		<u> </u>	13	23.18	23.33	22.92		
		1	24	23.20	23.43	23.33		
	QPSK	1 12		23.31 22.18	23.41	23.08 22.35		
	<b>U</b> F3N	12	0 6	22.18	22.33 22.34	22.35		
		12	13	22.15	22.34	22.20	23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 22.50 22.50 22.50 22.50 21.50  Tune up 23.50 23.50 23.50 22.50 22.50 22.50 23.50 23.50 22.50 21.50 21.50 21.50	
		25	0	22.36	22.42	22.20		
5MHz		1	0	21.62	21.66	22.19		
		1	13	22.08	22.35	21.85		
		1	24	22.39	21.87	21.46		
	16QAM	12	0	21.11	21.33	21.00		
	100/1111	12	6	21.02	21.24	21.16		
		12	13	21.23	21.20	21.05		
		25	0	21.19	21.35	21.25		



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						Chararal	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26750	26865	26990	
		1	0	23.21	23.10	23.27	23.50
		1	25	23.39	23.21	23.25	23.50
		1	49	23.40	22.98	23.06	23.50
	QPSK	25	0	22.23	22.33	22.43	22.50
		25	13	22.32	22.26	22.22	22.50
		25	25	22.42	22.25	22.20	22.50
10MHz		50	0	22.34	22.23	22.25	22.50
TOWINZ		1	0	22.32	22.44	21.67	22.50
		1	25	22.35	22.31	22.39	22.50
		1	49	22.42	22.10	22.11	22.50
	16QAM	25	0	21.29	21.33	21.17	21.50
		25	13	21.38	21.35	21.26	21.50
		25	25	21.39	21.30	21.07	21.50
		50	0	21.38	21.30	21.34	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwium	IVIOGUIALIOTI	RD SIZE	KD Ollset	26775	26865	26965	Turie up
		1	0	23.25	23.39	23.35	23.50
		1	38	23.21	23.29	23.30	23.50
		1	74	23.23	23.35	23.15	23.50
	QPSK	36	0	22.31	22.49	22.44	22.50
		36	18	22.39	22.31	22.31	22.50
		36	39	22.47	22.35	22.25	22.50
15MHz		75	0	22.35	22.37	22.32	22.50
ISIVITZ		1	0	21.97	22.25	21.90	22.50
		1	38	21.99	21.64	22.22	22.50
	1	-	7.4	22.12	21.28	21.60	22.50
		1	74	22.12	21.20	21.00	22.00
	16QAM	36	0	21.31	21.41	21.35	21.50
	16QAM						
	16QAM	36	0	21.31	21.41	21.35	21.50



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	LTE Band	66			Conducted	Power(dBm)		
Dan duri déla	Madulation	DD oi-o	DD offeet	Channel	Channel	Channel	T	
Bandwidth	Modulation	RB size	RB offset	131979	132322	132665	Tune up	
		1	0	21.63	21.64	21.59	22.50	
		1	2	21.98	21.89	21.86	22.50	
		1	5	21.53	21.50	21.46	22.50	
	QPSK	3	0	21.64	21.59	21.60	22.50	
		3	1	22.00	21.87	21.89	22.50 22.50 22.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50	
		3	3	21.54	21.54	21.44	22.50	
1 AMU-	1.4MHz	6	0	20.80	20.78	20.80	21.50	
1.411172		1	0	20.85	20.89	20.86	21.50	
		1	2	20.97	20.95	20.96	21.50	
		1	5	20.90	21.02	20.88	21.50	
	16QAM	3	0	20.84	20.49	20.72	21.50	
		3	1	20.83	20.82	20.98	21.50	
		3	3	20.66	20.11	20.15	21.50 21.50	
		6	0	19.81	19.64	19.71	20.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
Balluwidili	Modulation	ND SIZE	VD 011961	131987	132322	132657	rune up	
		1	0	21.63	21.61	21.59	22.50	
		1	7	22.02	21.86	21.86	22.50	
		1	14	21.53	21.52	21.45	22.50	
	QPSK	8	0	20.76	20.79	20.75	21.50	
		8	4	20.86	20.86	20.85	21.50	
		8	7	20.96	20.98	20.97	21.50	
3MHz		15	0	20.90	21.00	20.85	21.50	
JIVII IZ		1	0	20.84	20.46	20.72	21.50	
		1	7	20.81	20.80	21.50	21.50	
		1	14	20.69	20.09	20.14	21.50	
	16QAM	8	0	19.80	19.68	19.71	20.50	
		8	4	19.93	19.86	19.94	20.50	
		8	7	20.02	20.00	19.94	20.50	
		15	0	19.89	19.88	19.86	20.50	



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				Channel	Channel	Channel		
Bandwidth	Modulation	RB size	RB offset	131997	132322	132647	Tune up	
		1	0				20.50	
		1	0	21.63	21.59	21.60	22.50	
		1	13	22.01	21.90	21.87	22.50	
		1	24	21.53	21.50	21.46	22.50	
	QPSK	12	0	20.80	20.79	20.79	21.50	
		12	6	20.85	20.88	20.88	21.50	
		12	13	20.95	20.97	20.93	21.50	
5MHz		25	0	20.86	21.02	20.88	21.50	
JIVII IZ		1	0	20.87	20.47	20.73	21.50	
		1	13	20.83	20.81	20.88	21.50	
		1	24	20.69	20.07	20.14	21.50	
	16QAM	12	0	19.82	19.65	19.71	20.50	
		12	6	19.94	19.84	19.96	20.50	
		12	13	20.03	20.00	19.97	20.50 20.50	
		25	0	19.87	19.85	19.89	20.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun	
Danuwium	Modulation	KD SIZE	KD 011561	132022	132322	132622	Tune up	
		1	0	21.63	21.63	21.57	22.50	
		1	25	22.02	21.88	21.86	22.50	
		1	49	21.52	21.51	21.47	22.50	
	QPSK	25	0	20.77	20.75	20.79	21.50	
		25	13	20.90	20.90	20.85	21.50	
		25	25	20.96	20.99	20.98	21.50	
403411		25 50	25 0	20.96 20.85	20.99 21.02	20.98 20.85	21.50 21.50	
10MHz		-						
10MHz		50	0	20.85	21.02	20.85	21.50	
10MHz		50 1	0	20.85 20.87	21.02 20.49	20.85 20.71	21.50 21.50	
10MHz	16QAM	50 1 1	0 0 25	20.85 20.87 20.81	21.02 20.49 20.78	20.85 20.71 21.49	21.50 21.50 21.50	
10MHz	16QAM	50 1 1 1	0 0 25 49	20.85 20.87 20.81 20.65	21.02 20.49 20.78 20.08	20.85 20.71 21.49 20.13	21.50 21.50 21.50 21.50	
10MHz	16QAM	50 1 1 1 1 25	0 0 25 49 0	20.85 20.87 20.81 20.65 19.80	21.02 20.49 20.78 20.08 19.69	20.85 20.71 21.49 20.13 19.71	21.50 21.50 21.50 21.50 20.50	



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				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	132047	132322	132597	Tune up
		1	0				22.50
		1	0	21.62	21.59	21.58	22.50
		1	38	22.00	21.91	21.84	22.50
		1	74	21.51	21.53	21.45	22.50
	QPSK	36	0	20.79	20.78	20.78	21.50
		36	18	20.85	20.86	20.86	21.50
		36	39	20.96	20.95	20.97	21.50
15MHz		75	0	20.87	21.00	20.88	21.50
13141112		1	0	20.87	20.47	20.70	21.50
		1	38	20.79	20.82	21.48	21.50
		1	74	20.68	20.10	20.11	21.50
	16QAM	36	0	19.81	19.69	19.72	20.50
		36	18	19.93	19.83	19.96	20.50
		36	39	20.03	19.98	19.96	20.50
		75	0	19.85	19.84	19.90	20.50
Bandwidth	Modulation	DD size	RB offset	Channel	Channel	Channel	Tungun
Danuwium	Modulation	RB size	KB onset	132072	132322	132572	Tune up
		1	0	21.71	22.19	21.65	22.50
		1	50	22.09	21.96	21.94	22.50
		1	99	21.59	21.59	22.17	22.50
	QPSK	50	0	21.05	21.04	21.04	21.50
		50	25	20.97	20.92	20.95	21.50
		50	50	21.02	21.04	21.03	21.50
001411		100	0	21.08	21.07	20.95	21.50
20MHz		1	0	20.93	20.54	20.80	21.50
		1	50	20.88	20.88	20.83	21.50
			00	20.75	20.17	20.20	21.50
		1	99	20.73	20.17	20.20	
	16QAM	50	0	19.90	19.74	19.78	20.50
	16QAM		-				
	16QAM	50	0	19.90	19.74	19.78	20.50



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				, ,		0 01 100	
	LTE Band	71			Conducted	Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tupo up
Danuwium	Modulation	KD SIZE	KD 0115et	133147	133322	133447	Tune up
		1	0	24.18	23.86	23.96	24.50
		1	13	24.32	24.09	24.08	24.50
		1	24	23.76	23.48	23.56	24.50
	QPSK	12	0	23.04	23.01	23.15	23.50
		12	6	23.08	23.12	23.12	24.50 24.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 22.50 22.50 22.50 Tune up 24.50 24.50 24.50 23.50 23.50
		12	13	23.08	23.06	22.89	23.50
EMU-		25	0	22.95	22.84	22.93	23.50
SIVITZ	5MHz	1	0	22.74	22.59	22.42	23.50
		1	13	22.74	22.60	22.63	23.50
		1	24	22.53	22.48	22.54	23.50
	16QAM	12	0	22.11	22.04	22.25	22.50
		12	6	22.43	22.22	22.23	22.50
		12	13	22.31	21.97	22.00	22.50 22.50
		25	0	22.21	21.97	22.28	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tung un
Danawidin	Modulation	KD SIZE	KD 011561	133172	133322	133422	rune up
		1	0	24.18	23.85	23.79	24.50
		1	25	24.40	24.22	24.13	24.50
		1	49	23.88	23.54	23.86	24.50
	QPSK	25	0	23.25	23.16	23.18	23.50
		25	13	23.23	23.14	23.09	23.50
		25	25	22.94	22.89	23.11	23.50
10MHz		50	0	23.20	23.01	23.09	23.50
IUIVITIZ		1	0	22.78	22.45	22.63	23.50
		1	25	22.54	22.53	22.58	23.50
		1	49	22.60	22.44	22.45	23.50
	16QAM	25	0	22.11	22.13	22.04	22.50
		25	13	22.23	22.09	22.36	22.50
		25	25	22.14	22.10	22.18	22.50
		50	0	22.23	22.09	22.02	22.50



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				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	133197	133322	133397	Tune up
		1	0	23.90	23.66	23.73	24.50
		1	38	24.21	24.12	24.28	24.50
		1	74	23.82		23.69	24.50
	ODCK				23.67	-	
	QPSK	36	0	23.26	23.21	23.17	23.50
		36	18	23.04	22.98	23.13	23.50
		36	39	22.94	23.01	23.01	23.50
15MHz		75	0	22.96	23.08	23.06	23.50
		1	0	22.56	22.62	22.61	23.50
	16QAM	1	38	22.57	22.40	22.60	23.50
		1	74	22.40	22.32	22.56	23.50
		36	0	22.34	22.16	22.18	22.50
		36	18	22.24	22.13	22.21	22.50
		36	39	22.17	22.15	22.06	22.50
		75	0	22.25	22.19	22.02	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawidin	Modulation	IND SIZE	ND onset	133222	133322	133372	rune up
		1	0	24.09	23.82	23.93	24.50
		1	50	24.32	24.17	24.25	24.50
		1	99	23.79	23.66	23.76	24.50
	QPSK	50	0	23.24	23.14	23.21	23.50
		50	25	23.22	23.10	23.22	23.50
		50	50	23.12	23.00	23.09	23.50
20141-		100	0	23.14	23.02	23.13	23.50
20MHz		1	0	22.75	22.56	22.62	23.50
		1	50	22.64	22.52	22.58	23.50
							+
		1	99	22.60	22.48	22.56	23.50
	16QAM		99 0	22.60 22.31	22.48 22.11	22.56 22.18	23.50 22.50
	16QAM	1					
	16QAM	1 50	0	22.31	22.11	22.18	22.50



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LT	E Band 41 (C	class 2)			С	onducted	Power(dBn	n)	
Dondwidth	Modulation	RB	RB	Channel	Channel	Channel	Channel	Channel	Tungun
Bandwidth	iviodulation	size	offset	39675	40148	40620	41093	41565	Tune up
		1	0	22.03	22.11	22.00	22.40	22.52	23.00
		1	13	22.42	22.60	22.64	22.72	22.55	23.00
		1	24	22.18	22.29	22.41	22.27	22.23	23.00
	QPSK	12	0	21.47	21.70	21.54	21.40	21.58	22.00
		12	6	21.49	21.67	21.61	21.62	21.53	22.00
		12	13	21.58	21.61	21.57	21.74	21.50	22.00
5MHz		25	0	21.39	21.66	21.69	21.50	21.52	22.00
SIVITIZ		1	0	20.95	21.14	21.12	21.29	21.12	22.00
		1	13	21.16	21.43	21.27	21.49	21.31	22.00
		1	24	20.88	21.11	21.12	21.19	21.04	22.00
	16QAM	12	0	20.16	20.57	20.38	20.71	20.47	21.00
	·	12	6	20.33	20.45	20.38	20.58	20.55	21.00
		12	13	20.46	20.49	20.32	20.62	20.39	21.00
		25	0	20.28	20.50	20.47	20.66	20.41	21.00
Bandwidth	Modulation	RB	RB	Channel	Channel	Channel	Channel	Channel	Tune up
Baridwidtii	Modulation	size	offset	39700	40160	40620	41080	41540	Turie up
		1	0	22.01	22.15	22.01	22.38	22.50	23.00
		1	25	22.44	22.60	22.60	22.72	22.52	23.00
		1	49	22.15	22.32	22.39	22.28	22.24	23.00
	QPSK	25	0	21.46	21.68	21.54	21.42	21.58	22.00
		25	13	21.48	21.68	21.59	21.62	21.50	22.00
		25	25	21.59	21.62	21.55	21.69	21.47	22.00
10MHz		50	0	21.39	21.64	21.69	21.48	21.55	22.00
TOWITIE		1	0	20.94	21.18	21.15	21.27	21.17	22.00
		1	25	21.17	21.44	21.22	21.52	21.33	22.00
		1	49	20.89	21.13	21.13	21.17	21.03	22.00
	16QAM	25	0	20.18	20.55	20.39	20.72	20.49	21.00
		25	13	20.35	20.40	20.33	20.60	20.54	21.00
		25	25	20.48	20.47	20.33	20.63	20.39	21.00
		50	0	20.24	20.52	20.45	20.68	20.45	21.00



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				0.1	rage.	73 01 1		
Bandwidth Modulation	RB	RB	Channel	Channel	Channel	Channel	Channel	Tune up
	size	offset	39725	40173	40620	41068	41515	
	1	0	21.98	22.11	22.02	22.37	22.52	23.00
	1	38	22.40	22.60	22.64	22.76	22.54	23.00
	1	74	22.20	22.34	22.42	22.26	22.24	23.00
QPSK	36	0	21.42	21.68	21.53	21.40	21.59	22.00
	36	18	21.50	21.67	21.59	21.60	21.49	22.00
	36	39	21.58	21.62	21.55	21.71	21.46	22.00
15MHz	75	0	21.38	21.65	21.67	21.47	21.51	22.00
ТЭМП2	1	0	20.91	21.15	21.14	21.31	21.14	22.00
	1	38	21.13	21.40	21.27	21.54	21.31	22.00
	1	74	20.88	21.13	21.13	21.18	21.02	22.00
16QAM	36	0	20.20	20.59	20.38	20.69	20.50	21.00
	36	18	20.35	20.41	20.37	20.61	20.57	21.00
	36	39	20.44	20.51	20.33	20.61	20.40	21.00
	75	0	20.25	20.53	20.50	20.67	20.42	21.00
Bandwidth Modulation	RB	RB	Channel	Channel	Channel	Channel	Channel	Tune up
<b>Dandwidth</b> Wodulation	size	offset	39750	40185	40620	41055	41490	Turie up
	1	0	22.08	22.20	22.08	22.47	22.60	23.00
	1							
	ı ı	50	22.82	22.67	22.79	22.83	22.61	23.00
	1	99	22.82 22.25	22.67 22.39	22.79 22.47	22.83 22.33	22.61 22.30	23.00 23.00
QPSK								
QPSK	1	99	22.25	22.39	22.47	22.33	22.30	23.00
QPSK	1 50	99 0	22.25 21.52	22.39 21.78	22.47 21.61	22.33 21.47	22.30 21.66	23.00 22.00
	1 50 50	99 0 25	22.25 21.52 21.55	22.39 21.78 21.73	22.47 21.61 21.66	22.33 21.47 21.67	22.30 21.66 21.59	23.00 22.00 22.00
QPSK 20MHz	1 50 50 50	99 0 25 50	22.25 21.52 21.55 21.68	22.39 21.78 21.73 21.67	22.47 21.61 21.66 21.62	22.33 21.47 21.67 21.79	22.30 21.66 21.59 21.55	23.00 22.00 22.00 22.00
	1 50 50 50 100	99 0 25 50 0	22.25 21.52 21.55 21.68 21.48	22.39 21.78 21.73 21.67 21.72	22.47 21.61 21.66 21.62 21.77	22.33 21.47 21.67 21.79 21.57	22.30 21.66 21.59 21.55 21.61	23.00 22.00 22.00 22.00 22.00
	1 50 50 50 100	99 0 25 50 0	22.25 21.52 21.55 21.68 21.48 21.01	22.39 21.78 21.73 21.67 21.72 21.23	22.47 21.61 21.66 21.62 21.77 21.22	22.33 21.47 21.67 21.79 21.57 21.37	22.30 21.66 21.59 21.55 21.61 21.22	23.00 22.00 22.00 22.00 22.00 22.00
	1 50 50 50 100 1	99 0 25 50 0 0 50	22.25 21.52 21.55 21.68 21.48 21.01 21.22	22.39 21.78 21.73 21.67 21.72 21.23 21.49	22.47 21.61 21.66 21.62 21.77 21.22 21.32	22.33 21.47 21.67 21.79 21.57 21.37 21.59	22.30 21.66 21.59 21.55 21.61 21.22 21.38	23.00 22.00 22.00 22.00 22.00 22.00 22.00
20MHz	1 50 50 50 100 1 1	99 0 25 50 0 0 50 99	22.25 21.52 21.55 21.68 21.48 21.01 21.22 20.96	22.39 21.78 21.73 21.67 21.72 21.23 21.49 21.19	22.47 21.61 21.66 21.62 21.77 21.22 21.32 21.18	22.33 21.47 21.67 21.79 21.57 21.37 21.59 21.25	22.30 21.66 21.59 21.55 21.61 21.22 21.38 21.10	23.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00
20MHz	1 50 50 50 100 1 1 1 50	99 0 25 50 0 0 50 99	22.25 21.52 21.55 21.68 21.48 21.01 21.22 20.96 20.26	22.39 21.78 21.73 21.67 21.72 21.23 21.49 21.19 20.64	22.47 21.61 21.66 21.62 21.77 21.22 21.32 21.18 20.47	22.33 21.47 21.67 21.79 21.57 21.37 21.59 21.25 20.78	22.30 21.66 21.59 21.55 21.61 21.22 21.38 21.10 20.56	23.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 21.00



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				Conducted Power(dBm)							
LT	E Band 41 (C	class 3)			С	onducted	Power(dBn	n)			
Pandwidth	Modulation	RB	RB	Channel	Channel	Channel	Channel	Channel	Tungun		
Bandwidth	Modulation	size	offset	39675	40148	40620	41093	41565	Tune up		
		1	0	19.52	19.70	19.46	19.73	19.77	20.70		
		1	13	19.85	20.11	20.05	20.28	20.01	20.70		
		1	24	19.54	19.65	19.86	19.75	19.72	20.70		
	QPSK	12	0	18.78	19.11	18.95	19.18	19.08	19.70		
		12	6	18.77	19.02	19.04	19.11	18.91	19.70		
		12	13	18.86	19.00	19.00	19.00	18.85	19.70		
5MHz		25	0	18.83	19.08	19.03	19.12	18.95	19.70		
SIVITZ		1	0	18.18	18.51	18.39	18.68	18.91	19.70		
		1	13	18.65	18.59	18.53	19.11	18.56	19.70		
		1	24	18.22	18.82	18.44	18.57	18.16	19.70		
	16QAM	12	0	17.62	18.06	17.81	18.01	18.02	18.70		
		12	6	17.73	17.90	17.76	18.08	17.96	18.70		
		12	13	18.07	18.01	17.97	18.01	17.85	18.70		
		25	0	17.80	18.02	18.05	18.13	17.90	18.70		
Bandwidth	Modulation	RB	RB	Channel	Channel	Channel	Channel	Channel	Tune up		
Bandwidth	Woddiation	size	offset	39700	40160	40620	41080	41540	Turie up		
		1	0	19.48	19.67	19.45	19.72	19.78	20.70		
		1	25	19.83	20.14	20.07	20.28	20.00	20.70		
		1	49	19.53	19.63	19.88	19.72	19.71	20.70		
	QPSK	25	0	18.74	19.10	18.99	19.18	19.12	19.70		
		25	13	18.80	19.04	19.01	19.09	18.90	19.70		
		25	25	18.86	19.04	18.99	18.98	18.81	19.70		
10MHz		50	0	18.83	19.03	19.05	19.17	18.99	19.70		
I OIVII IZ		1	0	18.15	18.50	18.39	18.71	18.96	19.70		
		1	25	18.67	18.61	18.57	19.16	18.56	19.70		
		1	49	18.19	18.79	18.45	18.60	18.17	19.70		
	16QAM	25	0	17.61	18.10	17.86	18.01	17.99	18.70		
		25	13	17.73	17.92	17.77	18.08	17.96	18.70		
		25	25	18.07	17.97	18.02	18.01	17.82	18.70		
		50	0	17.76	18.02	18.03	18.11	17.85	18.70		



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						raye.	75 01 1		
Bandwidth	Modulation	RB	RB	Channel	Channel	Channel	Channel	Channel	Tune up
	oadiation	size	offset	39725	40173	40620	41068	41515	rano ap
		1	0	19.48	19.71	19.50	19.74	19.78	20.70
		1	38	19.84	20.14	20.07	20.27	20.02	20.70
		1	74	19.53	19.62	19.89	19.75	19.70	20.70
	QPSK	36	0	18.76	19.11	18.97	19.20	19.10	19.70
		36	18	18.77	19.02	19.02	19.07	18.95	19.70
		36	39	18.89	19.01	18.99	19.01	18.83	19.70
15MHz		75	0	18.82	19.03	19.02	19.17	18.96	19.70
13141112		1	0	18.14	18.49	18.41	18.68	18.93	19.70
		1	38	18.63	18.57	18.58	19.15	18.57	19.70
		1	74	18.20	18.79	18.48	18.59	18.20	19.70
	16QAM	36	0	17.58	18.05	17.84	18.00	18.02	18.70
		36	18	17.74	17.92	17.78	18.08	17.94	18.70
		36	39	18.07	17.97	18.01	17.96	17.85	18.70
		75	0	17.78	18.03	18.04	18.11	17.88	18.70
Bandwidth	Modulation	RB	RB	Channel	Channel	Channel	Channel	Channel	Tungun
Bandwidth	Modulation	size	offset	39750	40185	40620	41055	41490	Tune up
		1	0	19.57	19.77	19.55	19.82	19.83	20.70
									00 -0
		1	50	19.93	20.21	20.13	20.44	20.08	20.70
		1	50 99	<b>19.93</b> 19.62	<b>20.21</b> 19.72	<b>20.13</b> 19.94	<b>20.44</b> 19.81	<b>20.08</b> 19.77	20.70
	QPSK								
	QPSK	1	99	19.62	19.72	19.94	19.81	19.77	20.70
	QPSK	1 50	99 0	19.62 18.84	19.72 <b>19.20</b>	19.94 19.05	19.81 <b>19.25</b>	19.77 <b>19.17</b>	20.70 19.70
20MH~	QPSK	1 50 50	99 0 25	19.62 18.84 <b>18.86</b>	19.72 <b>19.20</b> 19.12	19.94 19.05 19.09	19.81 <b>19.25</b> 19.17	19.77 <b>19.17</b> 19.00	20.70 19.70 19.70
20MHz	QPSK	1 50 50 50	99 0 25 50	19.62 18.84 <b>18.86</b> 18.96	19.72 19.20 19.12 19.09	19.94 19.05 19.09 <b>19.09</b>	19.81 <b>19.25</b> 19.17 19.06	19.77 <b>19.17</b> 19.00 18.91	20.70 19.70 19.70 19.70
20MHz	QPSK	1 50 50 50 100	99 0 25 50 0	19.62 18.84 <b>18.86</b> 18.96 18.90	19.72 19.20 19.12 19.09 19.13	19.94 19.05 19.09 <b>19.09</b> 19.11	19.81 19.25 19.17 19.06 19.22	19.77 19.17 19.00 18.91 19.05	20.70 19.70 19.70 19.70 19.70
20MHz	QPSK	1 50 50 50 100	99 0 25 50 0	19.62 18.84 <b>18.86</b> 18.96 18.90 18.23	19.72 19.20 19.12 19.09 19.13 18.58	19.94 19.05 19.09 <b>19.09</b> 19.11 18.47	19.81 19.25 19.17 19.06 19.22 18.76	19.77 19.17 19.00 18.91 19.05 19.01	20.70 19.70 19.70 19.70 19.70 19.70
20MHz	QPSK 16QAM	1 50 50 50 100 1	99 0 25 50 0 0 50	19.62 18.84 18.86 18.96 18.90 18.23 18.72	19.72 19.20 19.12 19.09 19.13 18.58 18.66	19.94 19.05 19.09 <b>19.09</b> 19.11 18.47 18.63	19.81 19.25 19.17 19.06 19.22 18.76 19.21	19.77 19.17 19.00 18.91 19.05 19.01 18.65	20.70 19.70 19.70 19.70 19.70 19.70
20MHz		1 50 50 50 100 1 1	99 0 25 50 0 0 50 99	19.62 18.84 18.86 18.96 18.90 18.23 18.72 18.27	19.72 19.20 19.12 19.09 19.13 18.58 18.66 18.88	19.94 19.05 19.09 <b>19.09</b> 19.11 18.47 18.63 18.54	19.81 19.25 19.17 19.06 19.22 18.76 19.21 18.66	19.77 19.17 19.00 18.91 19.05 19.01 18.65 18.26	20.70 19.70 19.70 19.70 19.70 19.70 19.70
20MHz		1 50 50 50 100 1 1 1 50	99 0 25 50 0 0 50 99	19.62 18.84 18.86 18.96 18.90 18.23 18.72 18.27 17.67	19.72 19.20 19.12 19.09 19.13 18.58 18.66 18.88 18.15	19.94 19.05 19.09 19.09 19.11 18.47 18.63 18.54 17.91	19.81 19.25 19.17 19.06 19.22 18.76 19.21 18.66 18.10	19.77 19.17 19.00 18.91 19.05 19.01 18.65 18.26 18.08	20.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 18.70



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#### 8.1.4 Conducted Power of WIFI

Wi-Fi	Average Pow	Rates (Mbps)		
2450MHz	Channel	1	Tune up	SAR Test
	1	16.36	17.00	No
802.11b	6	16.07	17.00	No
	11	16.86	17.00	Yes
	Channel	6	Tune up	SAR Test
000 44~	1	12.66	13.00	No
802.11g	6	11.79	13.00	No
	11	12.87	13.00	No
	Channel	6.5	Tune up	SAR Test
802.11n	1	12.63	13.00	No
HT20	6	11.77	13.00	No
	11	12.92	13.00	No
	Channel	13.5	Tune up	SAR Test
802.11n	3	12.67	13.00	No
HT40	6	12.52	13.00	No
	9	12.49	13.00	No

#### Note:

- a) Power must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band.
- b) Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.
- 1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.
- 2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.
- c) For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured.



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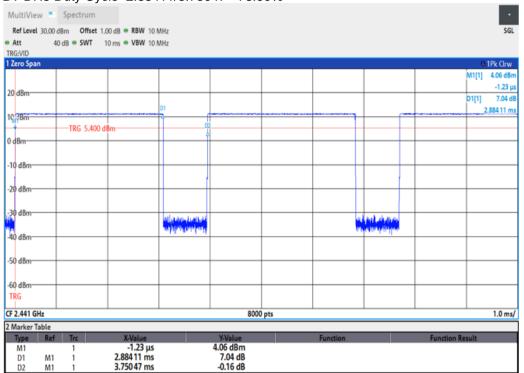
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#### 8.1.5 Conducted Power of BT

BT DH5 Duty Cycle=2.88411/3.75047 =76.90%



	BT		Tuno un (dDm)	Average Conducted
Modulation	Channel	Frequency(MHz)	Tune up (dBm)	Power(dBm)
	0	2402	11.00	10.25
GFSK	39	2441	11.00	10.72
	78	2480	11.00	9.53
	0	2402	10.00	8.37
π/4DQPSK	39	2441	10.00	9.44
	78	2480	10.00	8.63
	0	2402	10.00	8.72
8DPSK	39	2441	10.00	9.56
	78	2480	10.00	8.31
	0	2402	1.50	-0.41
BLE	19	2440	1.50	-0.14
	39	2441	1.50	-0.31

Note:

1)The conducted power of BT is measured with RMS detector.



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### 8.2 Measurement of SAR Data

#### Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 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:
  - ≤ 0.8W/kg for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is ≤ 100MHz.
  - $\bullet$  ≤ 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.

#### WiFi 2.4G:

1) When the highest reported SAR for the initial test configuration 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 test for the other 802.11 modes are not required.





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#### 8.2.1 SAR Result of GSM850

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp
					est data Co	ver Open	, , ,		, , ,	•
Left cheek	GSM	190/836.6	1:8.3	0.143	-0.15	32.43	33.50	1.000	0.143	22.1
Left tilted	GSM	190/836.6	1:8.3	0.066	0.11	32.43	33.50	1.279	0.084	22.1
Right cheek	GSM	190/836.6	1:8.3	0.102	0.13	32.43	33.50	1.279	0.130	22.1
Right tilted	GSM	190/836.6	1:8.3	0.060	0.13	32.43	33.50	1.279	0.077	22.1
			Body v	vorn Test da	ita(Separate	15mm) Cover	Open			
Front side	GSM	190/836.6	1:8.3	0.221	0.07	32.43	33.50	1.279	0.283	22.1
Back side	GSM	190/836.6	1:8.3	0.310	0.01	32.43	33.50	1.279	0.397	22.1
			Hots	oot Test data	a(Separate 1	0mm) Cover O	pen			
Front side	GPRS 2TS	190/836.6	1:4.15	0.509	0.13	30.21	31.50	1.346	0.685	22.1
Back side	GPRS 2TS	190/836.6	1:4.15	0.828	-0.18	30.21	31.50	1.346	1.114	22.1
Back side -Repeat	GPRS 2TS	190/836.6	1:4.15	0.795	0.04	30.21	31.50	1.346	1.070	22.1
Back side	GPRS 2TS	128/824.2	1:4.15	0.438	0.17	30.23	31.50	1.340	0.587	22.1
Back side	GPRS 2TS	251/848.8	1:4.15	0.572	0.01	30.15	31.50	1.365	0.781	22.1
Left side	GPRS 2TS	190/836.6	1:4.15	0.218	0.01	30.21	31.50	1.346	0.293	22.1
Right side	GPRS 2TS	190/836.6	1:4.15	0.279	0.08	30.21	31.50	1.346	0.375	22.1
Bottom side	GPRS 2TS	190/836.6	1:4.15	0.193	0.17	30.21	31.50	1.346	0.260	22.1
			Body v	vorn Test da	ta(Separate	15mm) Cover	Close			
Front side	GSM	190/836.6	1:8.3	0.239	0.02	32.43	33.50	1.279	0.306	22.1
Back side	GSM	190/836.6	1:8.3	0.521	0.05	32.43	33.50	1.279	0.667	22.1
			Hotsp	oot Test data	(Separate 1	0mm) Cover Cl	ose			
Front side	GPRS 2TS	190/836.6	1:4.15	0.376	0.04	30.21	31.50	1.346	0.506	22.1
Back side	GPRS 2TS	190/836.6	1:4.15	0.789	-0.08	30.21	31.50	1.346	1.062	22.1
Back side	GPRS 2TS	128/824.2	1:4.15	0.647	0.10	30.23	31.50	1.340	0.867	22.1
Back side	GPRS 2TS	251/848.8	1:4.15	0.636	0.18	30.15	31.50	1.365	0.868	22.1
Left side	GPRS 2TS	190/836.6	1:4.15	0.476	0.05	30.21	31.50	1.346	0.641	22.1
Right side	GPRS 2TS	190/836.6	1:4.15	0.500	0.02	30.21	31.50	1.346	0.673	22.1
Bottom side	GPRS 2TS	190/836.6	1:4.15	0.167	0.12	30.21	31.50	1.346	0.225	22.1

Table 11: SAR of GSM850 for Head and Body

Test Position	Channel/ Frequency	Measured SAR (1g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Back side	190/836.6	0.828	0.795	1.042	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.



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<sup>2)</sup> A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

<sup>3)</sup> A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

<sup>4)</sup> Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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#### 8.2.2 SAR Result of GSM1900

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp
			Н	ead Test da	ta Cover O	pen				•
Left cheek	GSM	661/1880	1:8.3	0.061	0.02	30.28	30.50	1.052	0.064	22.3
Left tilted	GSM	661/1880	1:8.3	0.038	0.06	30.28	30.50	1.052	0.040	22.3
Right cheek	GSM	661/1880	1:8.3	0.101	0.05	30.28	30.50	1.052	0.106	22.3
Right tilted	GSM	661/1880	1:8.3	0.041	-0.04	30.28	30.50	1.052	0.043	22.3
		В	ody worn T	est data(Se <sub>l</sub>	parate 15m	m) Cover Ope	n			
Front side	GSM	661/1880	1:8.3	0.265	0.03	30.28	30.50	1.052	0.279	22.3
Back side	GSM	661/1880	1:8.3	0.250	0.13	30.28	30.50	1.052	0.263	22.3
		ŀ	Hotspot Tes	st data(Sepa	rate 10mm	) Cover Open				
Front side	GPRS 3TS	661/1880	1:2.77	0.402	0.12	25.12	27.00	1.542	0.620	22.3
Back side	GPRS 3TS	661/1880	1:2.77	0.394	-0.05	25.12	27.00	1.542	0.607	22.3
Left side	GPRS 3TS	661/1880	1:2.77	0.095	0.04	25.12	27.00	1.542	0.146	22.3
Right side	GPRS 3TS	661/1880	1:2.77	0.162	0.02	25.12	27.00	1.542	0.250	22.3
Bottom side	GPRS 3TS	661/1880	1:2.77	0.313	0.10	25.12	27.00	1.542	0.483	22.3
		В	ody worn To	est data(Ser	oarate 15m	m) Cover Clos	е			
Front side	GSM	661/1880	1:8.3	0.091	0.07	30.28	30.50	1.052	0.096	22.3
Back side	GSM	661/1880	1:8.3	0.442	0.02	30.28	30.50	1.052	0.465	22.3
		ŀ	Hotspot Tes	t data(Sepa	rate 10mm	) Cover Close				
Front side	GPRS 3TS	661/1880	1:2.77	0.120	-0.18	25.12	27.00	1.542	0.185	22.3
Back side	GPRS 3TS	661/1880	1:2.77	0.589	0.13	25.12	27.00	1.542	0.908	22.3
Left side	GPRS 3TS	661/1880	1:2.77	0.068	0.13	25.12	27.00	1.542	0.104	22.3
Right side	GPRS 3TS	661/1880	1:2.77	0.153	0.15	25.12	27.00	1.542	0.236	22.3
Bottom side	GPRS 3TS	661/1880	1:2.77	0.321	0.19	25.12	27.00	1.542	0.495	22.3
Back side	GPRS 3TS	512/1850.2	1:2.77	0.790	0.09	25.05	27.00	1.567	1.238	22.3
Back side	GPRS 3TS	810/1909.8	1:2.77	0.568	-0.06	25.10	27.00	1.549	0.880	22.3

Table 12: SAR of GSM1900 for Head and Body.



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### 8.2.3 SAR Result of WCDMA Band II

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted Power(dBm)	Tune up	Scaled factor	Scaled SAR(W/kg)	Liquid Temp
		•		est data Cover O			<u>,</u>	10.000	J (	
Left cheek	RMC	9400/1880	1:1	0.039	0.06	22.56	23.70	1.300	0.050	22.3
Left tilted	RMC	9400/1880	1:1	0.060	0.01	22.56	23.70	1.300	0.078	22.3
Right cheek	RMC	9400/1880	1:1	0.047	-0.07	22.56	23.70	1.300	0.061	22.3
Right tilted	RMC	9400/1880	1:1	0.090	0.02	22.56	23.70	1.300	0.117	22.3
		Bod	ly worn T	est data(Separat	e 15mm) C	over Open	•			•
Front side	RMC	9400/1880	1:1	0.216	-0.03	22.56	23.70	1.300	0.281	22.3
Back side	RMC	9400/1880	1:1	0.502	0.02	22.56	23.70	1.300	0.653	22.3
		Ho	tspot Tes	t data(Separate	10mm) Cov	er Open				
Front side	RMC	9400/1880	1:1	0.895	-0.19	22.56	23.70	1.300	1.164	22.3
Back side	RMC	9400/1880	1:1	0.886	0.02	22.56	23.70	1.300	1.152	22.3
Left side	RMC	9400/1880	1:1	0.109	0.02	22.56	23.70	1.300	0.142	22.3
Right side	RMC	9400/1880	1:1	0.254	0.19	22.56	23.70	1.300	0.330	22.3
Bottom side	RMC	9400/1880	1:1	0.475	-0.14	22.56	23.70	1.300	0.618	22.3
Front side	RMC	9262/1852.4	1:1	0.926	-0.09	22.65	23.70	1.274	1.179	22.3
Front side-Repeat	RMC	9262/1852.4	1:1	0.848	0.11	22.65	23.70	1.274	1.080	22.3
Front side	RMC	9538/1907.6	1:1	0.817	0.02	22.51	23.70	1.315	1.075	22.3
Back side	RMC	9262/1852.4	1:1	0.870	0.08	22.65	23.70	1.274	1.108	22.3
Back side	RMC	9538/1907.6	1:1	0.627	0.02	22.51	23.70	1.315	0.825	22.3
		Bod	y worn T	est data(Separat	e 15mm) C	over Close				
Front side	RMC	9400/1880	1:1	0.168	0.08	22.56	23.70	1.300	0.218	22.3
Back side	RMC	9400/1880	1:1	0.678	0.09	22.56	23.70	1.300	0.882	22.3
Back side	RMC	9262/1852.4	1:1	0.643	0.02	22.65	23.70	1.274	0.819	22.3
Back side	RMC	9538/1907.6	1:1	0.649	0.05	22.51	23.70	1.315	0.854	22.3
		Но	tspot Tes	t data(Separate	10mm) Cov	er Close				
Front side	RMC	9400/1880	1:1	0.261	0.03	22.56	23.70	1.300	0.339	22.3
Back side	RMC	9400/1880	1:1	0.971	0.08	22.56	23.70	1.300	1.262	22.3
Left side	RMC	9400/1880	1:1	0.096	-0.04	22.56	23.70	1.300	0.125	22.3
Right side	RMC	9400/1880	1:1	0.200	0.03	22.56	23.70	1.300	0.260	22.3
Bottom side	RMC	9400/1880	1:1	0.506	0.10	22.56	23.70	1.300	0.658	22.3
Back side	RMC	9262/1852.4	1:1	0.996	0.14	22.65	23.70	1.274	1.268	22.3
Back side-Repeat	RMC	9262/1852.4	1:1	0.987	0.17	22.65	23.70	1.274	1.257	22.3
Back side	RMC	9538/1907.6	1:1	0.943	0.09	22.51	23.70	1.315	1.240	22.3

Table 13: SAR of WCDMA Band II for Head and Body.

Test Position	Channel/ Frequency	Measured SAR	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Front side	9262/1852.4	0.926	0.848	1.092	N/A	N/A
Back side	9262/1852.4	0.996	0.987	1.009	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

<sup>4)</sup> Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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<sup>2)</sup> A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

<sup>3)</sup> A third repeated measurement was preformed only if the original, first or second repeated measurement was  $\geq$  1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.



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#### 8.2.4 SAR Result of WCDMA Band IV

Test position	Test mode	Test Ch./Freq.	Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
-			Cycle Head	(W/kg)1-g Test data Cove	Drift(dB)	Power(dBm)	Limit(dBm)	Tactor	SAR(W/kg)	Temp
Left cheek	RMC	1412/1732.4	1:1	0.078	0.05	22.93	23.70	1.194	0.093	22.2
Left tilted	RMC	1412/1732.4	1:1	0.067	0.03	22.93	23.70	1.194	0.030	22.2
Right cheek	RMC	1412/1732.4	1:1	0.142	0.02	22.93	23.70	1.194	0.170	22.2
Right tilted	RMC	1412/1732.4	1:1	0.088	0.15	22.93	23.70	1.194	0.105	22.2
ragin anod	Tuno			n Test data(Sep		l	20.70	11101	0.100	
Front side	RMC	1412/1732.4	1:1	0.313	0.07	22.93	23.70	1.194	0.374	22.2
Back side	RMC	1412/1732.4	1:1	0.322	0.04	22.93	23.70	1.194	0.384	22.2
			Hotspot	Test data(Sepa	ate 10mm)	Cover Open	1		1	
Front side	RMC	1412/1732.4	1:1	0.562	0.04	22.93	23.70	1.194	0.671	22.2
Back side	RMC	1412/1732.4	1:1	0.700	-0.01	22.93	23.70	1.194	0.836	22.2
Left side	RMC	1412/1732.4	1:1	0.169	0.09	22.93	23.70	1.194	0.202	22.2
Right side	RMC	1412/1732.4	1:1	0.355	0.14	22.93	23.70	1.194	0.424	22.2
Bottom side	RMC	1412/1732.4	1:1	0.322	-0.01	22.93	23.70	1.194	0.384	22.2
Back side	RMC	1312/1712.4	1:1	0.669	0.19	23.00	23.70	1.175	0.786	22.2
Back side	RMC	1513/1752.6	1:1	0.766	0.07	23.18	23.70	1.127	0.863	22.2
		I	Body wor	n Test data(Sep	arate 15mm	) Cover Close				
Front side	RMC	1412/1732.4	1:1	0.145	0.05	22.93	23.70	1.194	0.173	22.2
Back side	RMC	1412/1732.4	1:1	0.499	0.04	22.93	23.70	1.194	0.596	22.2
			Hotspot 7	Test data(Sepai	ate 10mm) (	Cover Close				
Front side	RMC	1412/1732.4	1:1	0.226	0.11	22.93	23.70	1.194	0.270	22.2
Back side	RMC	1412/1732.4	1:1	0.989	0.17	22.93	23.70	1.194	1.181	22.2
Left side	RMC	1412/1732.4	1:1	0.126	0.05	22.93	23.70	1.194	0.150	22.2
Right side	RMC	1412/1732.4	1:1	0.323	0.05	22.93	23.70	1.194	0.386	22.2
Bottom side	RMC	1412/1732.4	1:1	0.493	0.06	22.93	23.70	1.194	0.589	22.2
Back side	RMC	1312/1712.4	1:1	0.812	0.19	23.00	23.70	1.175	0.954	22.2
Back side	RMC	1513/1752.6	1:1	1.140	0.08	23.18	23.70	1.127	1.285	22.2
Back side-Repeat	RMC	1513/1752.6	1:1	1.130	0.09	23.18	23.70	1.127	1.274	22.2

Table 14: SAR of WCDMA Band IV for Head and Body.

Test Position	Channel/ Frequency	Measured SAR	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Back side	1513/1752.6	1.140	1.130	1.009	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.



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<sup>2)</sup> A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

<sup>3)</sup> A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

<sup>4)</sup> Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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#### 8.2.5 SAR Result of LTE Band 12

				Duty	CAD	Dawar	Canduated	Tuna	Cooled	Cooled	ا استا
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g		Conducted power(dBm)		Scaled factor		Liquid Temp.
		•	Н		t data(1RB)			, ,	•		
Left cheek	10	QPSK 1RB_25	23095/707.5	1:1	0.039	0.05	23.75	24.00	1.059	0.041	22.1
Left tilted	10	QPSK 1RB_25	23095/707.5	1:1	0.017	0.18	23.75	24.00	1.059	0.018	22.1
Right cheek	10	QPSK 1RB_25	23095/707.5	1:1	0.039	0.17	23.75	24.00	1.059	0.041	22.1
Right tilted	10	QPSK 1RB_25	23095/707.5	1:1	0.024	0.05	23.75	24.00	1.059	0.025	22.1
			Hea	ad Test o	data(50%RE	B) Cover C	)pen				
Left cheek	10	QPSK 25RB_0	23095/707.5	1:1	0.026	0.08	22.78	23.00	1.052	0.027	22.1
Left tilted	10	QPSK 25RB_0	23095/707.5	1:1	0.015	0.18	22.78	23.00	1.052	0.016	22.1
Right cheek	10	QPSK 25RB_0	23095/707.5	1:1	0.023	0.03	22.78	23.00	1.052	0.025	22.1
Right tilted	10	QPSK 25RB_0	23095/707.5	1:1	0.015	0.04	22.78	23.00	1.052	0.016	22.1
			Body Worn T	est data	(Separate 1		Cover Oper	1			
Front side	10	QPSK 1RB_25	23095/707.5	1:1	0.271	0.10	23.75	24.00	1.059	0.287	22.1
Back side	10	QPSK 1RB_25	23095/707.5	1:1	0.391	0.13	23.75	24.00	1.059	0.414	22.1
			Body Worn Te	st data(S	Separate 15	mm 50%F	(B) Cover Op	en			1
Front side	10	QPSK 25RB_0	23095/707.5	1:1	0.226	0.12	22.78	23.00	1.052	0.238	22.1
Back side	10	QPSK 25RB_0	23095/707.5	1:1	0.376	0.14	22.78	23.00	1.052	0.396	22.1
		1	Hotspot Te	st data(S	Separate 10	mm 1RB)	Cover Open	T	·	1	
Front side	10	QPSK 1RB_25	23095/707.5	1:1	0.162	0.20	23.75	24.00	1.059	0.172	22.1
Back side	10	QPSK 1RB_25	23095/707.5	1:1	0.496	0.18	23.75	24.00	1.059	0.525	22.1
Left side	10	QPSK 1RB_25	23095/707.5	1:1	0.098	-0.06	23.75	24.00	1.059	0.104	22.1
Right side	10	QPSK 1RB_25	23095/707.5	1:1	0.130	0.16	23.75	24.00	1.059	0.138	22.1
Bottom side	10	QPSK 1RB_25	23095/707.5	1:1	0.085	0.08	23.75	24.00	1.059	0.090	22.1
		ı		data (Se			3) Cover Oper		1	1	
Front side	10	QPSK 25RB_0	23095/707.5	1:1	0.158	0.19	22.78	23.00	1.052	0.166	22.1
Back side	10	QPSK 25RB_0	23095/707.5	1:1	0.516	0.18	22.78	23.00	1.052	0.543	22.1
Left side	10	QPSK 25RB_0	23095/707.5	1:1	0.097	0.12	22.78	23.00	1.052	0.102	22.1
Right side	10	QPSK 25RB_0	23095/707.5	1:1	0.015	0.06	22.78	23.00	1.052	0.015	22.1
Bottom side	10	QPSK 25RB_0	23095/707.5	1:1	0.086	0.03	22.78	23.00	1.052	0.091	22.1
		lana					) Cover Close			1 2 1	
Front side	10	QPSK 1RB_25	23095/707.5	1:1	0.104	0.13	23.75	24.00	1.059	0.110	22.1
Back side	10	QPSK 1RB_25	23095/707.5	1:1	0.472	0.12	23.75	24.00	1.059	0.500	22.1
Face of 11	40	0001/0500	Body Worn Te				1		4.050	0.400	00.4
Front side	10	QPSK 25RB_0	23095/707.5	1:1	0.103	0.13	22.78	23.00	1.052	0.108	22.1
Back side	10	QPSK 25RB_0	23095/707.5	1:1	0.441	0.12	22.78	23.00	1.052	0.464	22.1
En araida	40	0001/400 05	· · · · · · · · · · · · · · · · · · ·				Cover Close	04.00	1.050	0.400	00.4
Front side	10	QPSK 1RB_25		1:1	0.154	0.19	23.75	24.00	1.059	0.163	22.1
Back side	10	QPSK 1RB_25	23095/707.5	1:1	0.662	0.12	23.75	24.00	1.059	0.701	22.1
Left side	10	QPSK 1RB_25	23095/707.5	1:1	0.183	0.15	23.75	24.00	1.059	0.194	22.1
Right side	10	QPSK 1RB_25	23095/707.5	1:1	0.278	0.18	23.75	24.00	1.059	0.294	22.1
Bottom side	10	QPSK 1RB_25	23095/707.5	1:1	0.101	0.02	23.75	24.00	1.059	0.107	22.1
Eront side	10	ODEK SEDD. S	Hotspot Test	· ·	•		<u> </u>		1.050	0.150	22.4
Front side	10	QPSK 25RB_0	23095/707.5	1:1	0.150	0.13	22.78	23.00	1.052	0.158	22.1
Back side	10	QPSK 25RB_0	23095/707.5	1:1	0.597	0.00	22.78	23.00	1.052	0.628	22.1
Left side	10	QPSK 25RB_0	23095/707.5	1:1	0.175	0.08	22.78	23.00	1.052	0.184	22.1
Right side	10	QPSK 25RB_0	23095/707.5	1:1	0.261	0.09	22.78	23.00	1.052	0.275	22.1
Bottom side	10	QPSK 25RB_0	23095/707.5	1:1	0.100	0.03	22.78	23.00	1.052	0.105	22.1

Table 15: SAR of LTE Band 12 for Head and Body.



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### 8.2.6 SAR Result of LTE Band 25

Test position	BW.	Test mode	Test	Duty	SAR	Power	Conducted	Tune up			Liquid
			Ch./Freq.				power(dBm)	Limit(dBm	tactor	SAR(W/kg)	Temp.
l aft ab a d	00	ODOK 4DD 50			data(1RB) C			04.50	1 004	0.040	00.0
Left cheek	20	QPSK 1RB_50	26590/1905	1:1	0.045	0.05	21.11	21.50	1.094	0.049	22.3
Left tilted	20	QPSK 1RB_50	26590/1905	1:1	0.044	-0.05	21.11	21.50	1.094	0.048	22.3
Right cheek	20	QPSK 1RB_50	26590/1905	1:1	0.045	0.15	21.11	21.50	1.094	0.050	22.3
Right tilted	20	QPSK 1RB_50	26590/1905	1:1	0.032	0.04	21.11	21.50	1.094	0.034	22.3
		T		1	ta(50%RB)	1			1		
Left cheek	20	QPSK 50RB_0	26140/1860	1:1	0.025	0.15	19.95	20.50	1.135	0.028	22.3
Left tilted	20	QPSK 50RB_0	26140/1860	1:1	0.032	0.05	19.95	20.50	1.135	0.036	22.3
Right cheek	20	QPSK 50RB_0	26140/1860	1:1	0.050	0.13	19.95	20.50	1.135	0.057	22.3
Right tilted	20	QPSK 50RB_0	26140/1860	1:1	0.038	0.15	19.95	20.50	1.135	0.043	22.3
			Body worn Tes	t data(S	Separate 15	mm 1RB) (	Cover Open			1	
Front side	20	QPSK 1RB_50	26590/1905	1:1	0.283	-0.01	21.11	21.50	1.094	0.310	22.3
Back side	20	QPSK 1RB_50	26590/1905	1:1	0.363	0.12	21.11	21.50	1.094	0.397	22.3
			ody worn Test o	data (Se	parate 15m	m 50%RB)	Cover Open		,		
Front side	20	QPSK 50RB_0	26140/1860	1:1	0.258	0.05	19.95	20.50	1.135	0.293	22.3
Back side	20	QPSK 50RB_0	26140/1860	1:1	0.343	0.09	19.95	20.50	1.135	0.389	22.3
			Hotspot Test	data(Se	parate 10m	m 1RB) Co	ver Open				
Front side	20	QPSK 1RB_50	26590/1905	1:1	0.498	0.12	21.11	21.50	1.094	0.545	22.3
Back side	20	QPSK 1RB_50	26590/1905	1:1	0.533	0.19	21.11	21.50	1.094	0.583	22.3
Left side	20	QPSK 1RB_50	26590/1905	1:1	0.123	0.18	21.11	21.50	1.094	0.135	22.3
Right side	20	QPSK 1RB_50	26590/1905	1:1	0.173	-0.05	21.11	21.50	1.094	0.189	22.3
Bottom side	20	QPSK 1RB_50	26590/1905	1:1	0.463	-0.09	21.11	21.50	1.094	0.507	22.3
		ŀ	Hotspot Test da	ta (Sep	arate 10mm	50%RB) (	Cover Open				
Front side	20	QPSK 50RB_0	26140/1860	1:1	0.476	0.12	19.95	20.50	1.135	0.540	22.3
Back side	20	QPSK 50RB_0	26140/1860	1:1	0.510	0.16	19.95	20.50	1.135	0.579	22.3
Left side	20	QPSK 50RB_0	26140/1860	1:1	0.174	0.10	19.95	20.50	1.135	0.197	22.3
Right side	20	QPSK 50RB_0	26140/1860	1:1	0.287	0.10	19.95	20.50	1.135	0.326	22.3
Bottom side	20	QPSK 50RB_0	26140/1860	1:1	0.354	-0.06	19.95	20.50	1.135	0.402	22.3
			Body worn Tes	t data(S	eparate 15	mm 1RB) C	Cover Close				
Front side	20	QPSK 1RB_50	26590/1905	1:1	0.103	0.08	21.11	21.50	1.094	0.113	22.3
Back side	20	QPSK 1RB_50	26590/1905	1:1	0.489	0.11	21.11	21.50	1.094	0.535	22.3
		Вс	dy worn Test o	lata (Se	parate 15m	m 50%RB)	Cover Close		1		
Front side	20	QPSK 50RB_0	26140/1860	1:1	0.113	0.02	19.95	20.50	1.135	0.128	22.3
Back side	20	QPSK 50RB 0	26140/1860	1:1	0.398	0.18	19.95	20.50	1.135	0.452	22.3
		_	Hotspot Test						ı		
Front side	20	QPSK 1RB_50	26590/1905			0.11	21.11	21.50	1.094	0.171	22.3
Back side	20	QPSK 1RB_50	26590/1905	1:1	0.828	0.07	21.11	21.50	1.094	0.906	22.3
Left side	20	QPSK 1RB_50	26590/1905	1:1	0.081	0.05	21.11	21.50	1.094	0.089	22.3
Right side	20	QPSK 1RB_50	26590/1905	1:1	0.156	0.15	21.11	21.50	1.094	0.171	22.3
Bottom side	20	QPSK 1RB_50	26590/1905	1:1	0.479	0.02	21.11	21.50	1.094	0.524	22.3
Back side	20	QPSK 1RB_50	26140/1860	1:1	0.870	0.16	20.78	21.50	1.180	1.027	22.3
Back side -repeat	20	QPSK 1RB_50	26140/1860	1:1	0.850	-0.06	20.78	21.50	1.180	1.003	22.3
Back side	20	QPSK 1RB_50	26365/1992 5	1:1	0.783	0.12	20.98	21.50	1.127	0.883	22.3



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	Hotspot Test data (Separate 10mm 50%RB) Cover Close													
Front side	20	QPSK 50RB_0	26140/1860	1:1	0.148	0.09	19.95	20.50	1.135	0.168	22.3			
Back side	20	QPSK 50RB_0	26140/1860	1:1	0.699	0.06	19.95	20.50	1.135	0.793	22.3			
Left side	Left side         20         QPSK 50RB_0         26140/1860         1:1         0.079         0.14         19.95         20.50         1.135         0.090         22.3													
Right side	20	QPSK 50RB_0	26140/1860	1:1	0.170	0.16	19.95	20.50	1.135	0.193	22.3			
Bottom side	20	QPSK 50RB_0	26140/1860	1:1	0.431	0.18	19.95	20.50	1.135	0.489	22.3			
	Hotspot Test data (Separate 10mm 100%RB) Cover Close													
Back side	20	QPSK 100RB_0	26140/1860	1:1	0.661	0.01	19.96	20.50	1.132	0.749	22.3			

Table 16: SAR of LTE Band 25 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Back side	26140/1860	0.870	0.850	1.024	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.



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<sup>2)</sup> A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was  $\geq$  1.45 W/kg ( $\sim$  10% from the 1-g SAR limit).

<sup>3)</sup> A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

<sup>4)</sup> Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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#### 8.2.7 SAR Result of LTE Band 26

Test position	BW.	Test mode	Test Ch./Freq.	Duty	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up	Scaled		Liquid Temp.
-						B) Cover Op		Liiiii(ubiii)	Tactor	SAK(W/kg)	remp.
Left cheek	15	QPSK 1RB_0	26865/831.5	1:1	0.255	-0.02	23.39	23.50	1.026	0.262	22.1
Left tilted	15	QPSK 1RB_0	26865/831.5	1:1	0.134	-0.11	23.39	23.50	1.026	0.137	22.1
Right cheek	15	QPSK 1RB_0	26865/831.5	1:1	0.209	0.13	23.39	23.50	1.026	0.214	22.1
Right tilted	15	QPSK 1RB_0	26865/831.5	1:1	0.134	0.00	23.39	23.50	1.026	0.137	22.1
rtigrit tillou		Q. O. H.D_o				RB) Cover C		20.00	1.020	0.107	
Left cheek	15	QPSK 36RB_0	26865/831.5	1:1	0.200	0.02	22.49	22.50	1.002	0.200	22.1
Left tilted	15	QPSK 36RB_0	26865/831.5	1:1	0.100	0.07	22.49	22.50	1.002	0.100	22.1
Right cheek	15	QPSK 36RB_0	26865/831.5	1:1	0.168	0.14	22.49	22.50	1.002	0.168	22.1
Right tilted	15	QPSK 36RB 0	26865/831.5	1:1	0.102	0.04	22.49	22.50	1.002	0.102	22.1
J			Body worn	Test dat		15mm 1RE	3) Cover Open		I	1	
Front side	15	QPSK 1RB_0	26865/831.5	1:1	0.253	0.00	23.39	23.50	1.026	0.259	22.1
Back side	15	QPSK 1RB_0	26865/831.5	1:1	0.358	0.12	23.39	23.50	1.026	0.367	22.1
			Body worn Te	est data (		15mm 50%F	RB) Cover Ope		I		
Front side	15	QPSK 36RB_0	26865/831.5	1:1	0.191	0.03	22.49	22.50	1.002	0.191	22.1
Back side	15	QPSK 36RB_0	26865/831.5	1:1	0.296	0.16	22.49	22.50	1.002	0.297	22.1
	•		Hotspot To	est data(	Separate 1	0mm 1RB)	Cover Open		•		
Front side	15	QPSK 1RB_0	26865/831.5	1:1	0.372	0.01	23.39	23.50	1.026	0.382	22.1
Back side	15	QPSK 1RB_0	26865/831.5	1:1	0.634	0.02	23.39	23.50	1.026	0.650	22.1
Left side	15	QPSK 1RB_0	26865/831.5	1:1	0.165	0.06	23.39	23.50	1.026	0.169	22.1
Right side	15	QPSK 1RB_0	26865/831.5	1:1	0.155	0.05	23.39	23.50	1.026	0.159	22.1
Bottom side	15	QPSK 1RB_0	26865/831.5	1:1	0.181	0.19	23.39	23.50	1.026	0.186	22.1
			Hotspot Tes	t data (S	eparate 10	mm 50%RE	B) Cover Open				
Front side	15	QPSK 36RB_0	26865/831.5	1:1	0.279	0.09	22.49	22.50	1.002	0.280	22.1
Back side	15	QPSK 36RB_0	26865/831.5	1:1	0.499	0.12	22.49	22.50	1.002	0.500	22.1
Left side	15	QPSK 36RB_0	26865/831.5	1:1	0.125	0.08	22.49	22.50	1.002	0.125	22.1
Right side	15	QPSK 36RB_0	26865/831.5	1:1	0.117	0.04	22.49	22.50	1.002	0.117	22.1
Bottom side	15	QPSK 36RB_0	26865/831.5	1:1	0.132	0.02	22.49	22.50	1.002	0.132	22.1
			Body worn	Test data	a(Separate	15mm 1RE	B) Cover Close				
Front side	15	QPSK 1RB_0	26865/831.5	1:1	0.196	-0.07	23.39	23.50	1.026	0.201	22.1
Back side	15	QPSK 1RB_0	26865/831.5	1:1	0.514	0.08	23.39	23.50	1.026	0.527	22.1
	•		Body worn Te	st data (	Separate 1	5mm 50%F	(B) Cover Clos	se			
Front side	15	QPSK 36RB_0	26865/831.5	1:1	0.141	0.08	22.49	22.50	1.002	0.141	22.1
Back side	15	QPSK 36RB_0	26865/831.5	1:1	0.375	0.03	22.49	22.50	1.002	0.376	22.1
							Cover Close				
Front side	15		26865/831.5	1:1	0.245	0.04	23.39	23.50	1.026	0.251	22.1
Back side	15	QPSK 1RB_0	26865/831.5	1:1	0.561	0.05	23.39	23.50	1.026	0.575	22.1
Left side	15	QPSK 1RB_0	26865/831.5	1:1	0.365	0.02	23.39	23.50	1.026	0.374	22.1
Right side	15	QPSK 1RB_0	26865/831.5	1:1	0.446	0.12	23.39	23.50	1.026	0.457	22.1
Bottom side	15	QPSK 1RB_0	26865/831.5	1:1	0.144	0.10	23.39	23.50	1.026	0.148	22.1
							3) Cover Close	!	1	,	
Front side	15	QPSK 36RB_0	26865/831.5	1:1	0.177	0.04	22.49	22.50	1.002	0.177	22.1
Back side	15	QPSK 36RB_0	26865/831.5	1:1	0.514	0.05	22.49	22.50	1.002	0.515	22.1
Left side	15	QPSK 36RB_0	26865/831.5	1:1	0.272	0.03	22.49	22.50	1.002	0.273	22.1
Right side	15	QPSK 36RB_0	26865/831.5	1:1	0.309	0.03	22.49	22.50	1.002	0.310	22.1
Bottom side	15	QPSK 36RB_0	26865/831.5	1:1	0.119	0.20	22.49	22.50	1.002	0.119	22.1

Table 17: SAR of LTE Band 26 for Head and Body.



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### 8.2.8 SAR Result of LTE Band 41

				ANT1	Test Record	d					
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power	Conducted power(dBm)				Liquid Temp
			Head		ta(1RB) Cov		power (abin)	Lillin (aBill)	idotoi	OAR(W/Rg)	i cinp.
Left cheek class3	20	QPSK 1RB_50	41055/2636.5	1:1.58	0.021	0.12	20.44	20.70	1.062	0.023	22.1
Left tilted class3	20	QPSK 1RB_50	41055/2636.5	1:1.58	0.010	0.01	20.44	20.70	1.062	0.010	22.1
Right cheek class3	20	QPSK 1RB_50	41055/2636.5	1:1.58	0.024	-0.09	20.44	20.70	1.062	0.026	22.1
Right cheek-class2	20	QPSK 1RB_50	41055/2636.5	1:2.31	0.026	-0.10	22.83	23.00	1.040	0.027	22.1
Right tilted class3	20	QPSK 1RB 50	41055/2636.5	1:1.58	0.018	0.15	20.44	20.70	1.062	0.019	22.1
			Head T	est data	(50%RB) Co	ver Oper	1				
Left cheek class3	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.018	-0.19	19.25	19.70	1.109	0.020	22.1
Left tilted class3	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.021	0.11	19.25	19.70	1.109	0.023	22.1
Right cheek class3	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.013	0.12	19.25	19.70	1.109	0.015	22.1
Right tilted class3	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.014	0.00	19.25	19.70	1.109	0.016	22.1
			Body Worn Test	data(Se	parate 15mn	n 1RB) C	over Open		l		
Front side class3	20	QPSK 1RB_50	41055/2636.5	1:1.58	0.036	0.03	20.44	20.70	1.062	0.038	22.1
Back side class3	20	QPSK 1RB_50	41055/2636.5	1:1.58	0.497	-0.13	20.44	20.70	1.062	0.528	22.1
Back side -class2	20	QPSK 1RB_50	41055/2636.5	1:2.31	0.647	0.05	22.83	23.00	1.040	0.673	22.1
Back side -class2	20	QPSK 1RB_50	39750/2506	1:2.31	0.613	0.06	22.82	23.00	1.042	0.639	22.1
Back side -class2	20	QPSK 1RB_50	40185/2549.5	1:2.31	0.604	0.12	22.67	23.00	1.079	0.652	22.1
Back side -class2	20	QPSK 1RB_50	40620/2593	1:2.31	0.632	0.15	22.79	23.00	1.050	0.663	22.1
Back side -class2	20	QPSK 1RB_50	41490/2680	1:2.31	0.613	0.01	22.61	23.00	1.094	0.671	22.1
		В	ody Worn Test da	ata(Sepa	arate 15mm	50%RB) (	Cover Open		•		
Front side class3	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.029	0.02	19.25	19.70	1.109	0.032	22.1
Back side class3	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.414	0.06	19.25	19.70	1.109	0.459	22.1
			Hotspot Test da	ata(Sepa	arate 10mm	1RB) Cov	er Open				•
Front side class3	20	QPSK 1RB_50	41055/2636.5	1:1.58	0.249	0.07	20.44	20.70	1.062	0.264	22.1
Back side class3	20	QPSK 1RB_50	41055/2636.5	1:1.58	1.030	-0.60	20.44	20.70	1.062	1.094	22.1
Back side class3	20	QPSK 1RB_50	39750/2506	1:1.58	1.080	0.01	19.93	20.70	1.194	1.290	22.1
Back side-class2	20	QPSK 1RB_50	39750/2506	1:2.31	1.300	0.17	22.82	23.00	1.042	1.355	22.1
Back side- class2 repeat	20	QPSK 1RB_50	39750/2506	1:2.31	1.260	0.11	22.82	23.00	1.042	1.313	22.1
Back side class3	20	QPSK 1RB_50	40185/2549.5	1:1.58	1.090	-0.16	20.21	20.70	1.119	1.220	22.1
Back side class3	20	QPSK 1RB_50	40620/2593	1:1.58	1.040	0.14	20.13	20.70	1.140	1.186	22.1
Back side class3	20	QPSK 1RB_50	41490/2680	1:1.58	0.979	-0.17	20.08	20.70	1.153	1.129	22.1
Left side class3	20	QPSK 1RB_50	41055/2636.5	1:1.58	0.038	0.00	20.44	20.70	1.062	0.040	22.1
Right side class3	20	QPSK 1RB_50	41055/2636.5	1:1.58	0.187	0.05	20.44	20.70	1.062	0.199	22.1
Bottom side class3	20	QPSK 1RB_50	41055/2636.5	1:1.58	0.534	-0.13	20.44	20.70	1.062	0.567	22.1
			Hotspot Test data	a (Separ	ate 10mm 5	0%RB) C	over Open				•
Front side class3	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.171	0.09	19.25	19.70	1.109	0.190	22.1
Back side class3	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.868	0.00	19.25	19.70	1.109	0.963	22.1
Back side class3	20	QPSK 50RB_50	39750/2506	1:1.58	0.941	-0.15	18.96	19.70	1.186	1.116	22.1
Back side class3	20	QPSK 50RB_0	40185/2549.5	1:1.58	0.965	0.03	19.20	19.70	1.122	1.083	22.1
Back side class3	20	QPSK 50RB_50	40620/2593	1:1.58	0.838	0.10	19.09	19.70	1.151	0.964	22.1
Back side class3	20	QPSK 50RB_0	41490/2680	1:1.58	0.797	0.06	19.17	19.70	1.130	0.900	22.1
Left side class3	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.040	0.00	19.25	19.70	1.109	0.045	22.1
Right side class3	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.152	0.14	19.25	19.70	1.109	0.169	22.1
Bottom side class3	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.474	-0.02	19.25	19.70	1.109	0.526	22.1



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						га		00 01 10	,,					
			Hotspot Test data			0%RB) C	over Open							
Back side class3	20	QPSK 100RB_0		1:1.58	0.781	0.07	19.22	19.70	1.117	0.872	22.1			
			Body Worn Test	data(Sep	arate 15mn	1RB) Co	ver Close							
Front side class3	20	QPSK 1RB_50	41055/2636.5	1:1.58	0.037	0.05	20.44	20.70	1.062	0.039	22.1			
Back side class3	20	QPSK 1RB_50	41055/2636.5	1:1.58	0.516	-0.04	20.44	20.70	1.062	0.548	22.1			
Back side -class2	20	QPSK 1RB_50	41055/2636.5	1:2.31	0.653	0.17	22.83	23.00	1.040	0.679	22.1			
Back side -class2	20	QPSK 1RB_50	39750/2506	1:2.31	0.611	0.13	22.82	23.00	1.042	0.637	22.1			
Back side -class2	20	QPSK 1RB_50	40185/2549.5	1:2.31	0.619	0.01	22.67	23.00	1.079	0.668	22.1			
Back side -class2	20	QPSK 1RB_50	40620/2593	1:2.31	0.624	0.11	22.79	23.00	1.050	0.655	22.1			
Back side -class2	20	QPSK 1RB_50	41490/2680	1:2.31	0.613	0.06	22.61	23.00	1.094	0.671	22.1			
		В	ody Worn Test da	ata(Sepa	rate 15mm	50%RB) (	Cover Close							
Front side class3 20 QPSK 50RB_0 41055/2636.5 1:1.58 0.030 -0.13 19.25 19.70 1.109 0.034 22.1														
Back side class3	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.474	-0.15	19.25	19.70	1.109	0.526	22.1			
			Hotspot Test da	ata(Sepa	rate 10mm	1RB) Cov	er Close							
Front side class3	20	QPSK 1RB_50	41055/2636.5	1:1.58	0.054	0.13	20.44	20.70	1.062	0.057	22.1			
Back side class3	20	QPSK 1RB_50	41055/2636.5	1:1.58	1.050	0.09	20.44	20.70	1.062	1.115	22.1			
Back side class3	20	QPSK 1RB_50	39750/2506	1:1.58	1.040	-0.02	19.93	20.70	1.194	1.242	22.1			
Back side class3	20	QPSK 1RB_50	40185/2549.5	1:1.58	1.140	0.00	20.21	20.70	1.119	1.276	22.1			
Back side class3	20	QPSK 1RB_50	40620/2593	1:1.58	1.120	-0.02	20.13	20.70	1.140	1.277	22.1			
Back side-class2	20	QPSK 1RB_50	40620/2593	1:2.31	1.280	0.03	22.79	23.00	1.050	1.343	22.1			
Back side- class2 repeat	20	QPSK 1RB_50	40620/2593	1:2.31	1.220	0.05	22.79	23.00	1.050	1.280	22.1			
Back side class3	20	QPSK 1RB_50	41490/2680	1:1.58	1.060	-0.07	20.08	20.70	1.153	1.223	22.1			
Left side class3	20	QPSK 1RB_50	41055/2636.5	1:1.58	0.034	0.00	20.44	20.70	1.062	0.036	22.1			
Right side class3	20	QPSK 1RB_50	41055/2636.5	1:1.58	0.157	-0.04	20.44	20.70	1.062	0.167	22.1			
Bottom side class3	20	QPSK 1RB_50	41055/2636.5	1:1.58	0.521	0.12	20.44	20.70	1.062	0.553	22.1			
			Hotspot Test data	a (Separa	ate 10mm 50	0%RB) Co	over Close							
Front side class3	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.045	0.00	19.25	19.70	1.109	0.050	22.1			
Back side class3	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.866	0.14	19.25	19.70	1.109	0.961	22.1			
Back side class3	20	QPSK 50RB_50	39750/2506	1:1.58	0.879	-0.19	18.96	19.70	1.186	1.042	22.1			
Back side class3	20	QPSK 50RB_0	40185/2549.5	1:1.58	1.020	0.08	19.20	19.70	1.122	1.144	22.1			
Back side class3	20	QPSK 50RB_50	40620/2593	1:1.58	0.939	-0.08	19.09	19.70	1.151	1.081	22.1			
Back side class3	20	QPSK 50RB_0	41490/2680	1:1.58	0.952	0.14	19.17	19.70	1.130	1.076	22.1			
Left side class3	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.032	0.00	19.25	19.70	1.109	0.036	22.1			
Right side class3	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.117	0.05	19.25	19.70	1.109	0.130	22.1			
Bottom side class3	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.480	-0.12	19.25	19.70	1.109	0.532	22.1			
		I	Hotspot Test data	(Separat	te 10mm 10	0%RB) C	over Close		,					
Back side class3	20	QPSK 100RB_0	41055/2636.5	1:1.58	0.728	0.05	19.22	19.70	1.117	0.813	22.1			
Toble 19 CAD	- ( )	TE D 1 44 (												

Table 18: SAR of LTE Band 41 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)	( 0,	SAR (1g)		SAR (1g)	SAR (1g)
Back side-class2	39750/2506	1.300	1.260	1.032	N/A	N/A
Back side-class2	40620/2593	1.280	1.220	1.049	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

<sup>4)</sup> Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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<sup>2)</sup> A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was  $\ge 1.45$  W/kg ( $\sim 10\%$  from the 1-g SAR limit).

<sup>3)</sup> A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.



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### 8.2.9 SAR Result of LTE Band 66

Head Test data (TRS)   Cover Open	Tost position	BW.	Toot made	Test Ch./Freq.	Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Left cheek   20	Test position	DVV.	Test mode						Limit(dBm)	factor	SAR(W/kg)	Temp.
Left titled   20 QPSK 1RB_0   1323221745   1:1   0.081   0.06   22.19   22.50   1.074   0.096   22.2   Right titled   20 QPSK 1RB_0   1323221745   1:1   0.094   -0.05   22.19   22.50   1.074   0.096   22.2   Head Test data(SPSKRB) Cover Open			I				· '		Т	1	1	г
Right cheek   20												
Right tilled   20												
Head Test data(50%RB)   Cover Open	Right cheek						-0.05				0.097	
Left cheek	Right tilted	20	QPSK 1RB_0						22.50	1.074	0.090	22.2
Left tilted			T		d Test o	`	) Cover C	·	T		1	T
Right cheek   20	Left cheek	20	QPSK 50RB_0	132072/1720	1:1	0.070	-0.05	21.05	21.50	1.109	0.078	22.2
Right tilted	Left tilted	20	QPSK 50RB_0	132072/1720		0.063	0.05	21.05	21.50	1.109	0.070	22.2
Body Worn Test data(Separate 15mm 1RB) Cover Open	Right cheek	20	QPSK 50RB_0	132072/1720	1:1	0.059	0.09	21.05	21.50	1.109	0.066	22.2
Front side   20	Right tilted	20	QPSK 50RB_0	132072/1720	1:1	0.060	-0.02	21.05	21.50	1.109	0.067	22.2
Back side   20				Body Worn T	est data	(Separate 1	5mm 1RB	) Cover Open	<u> </u>			
Body Worn Test data(Separate 15mm 50%RB) Cover Open	Front side	20		132322/1745	1:1	0.290	0.07	22.19	22.50	1.074	0.311	22.2
Front side 20 QPSK 50RB_0 132072/1720 1:1 0.233 0.09 21.05 21.50 1.109 0.258 22.2  Back side 20 QPSK 50RB_0 132072/1720 1:1 0.293 0.02 21.05 21.50 1.109 0.325 22.2  Hotspot Test data(Separate 10mm 1RB) Cover Open  Front side 20 QPSK 1RB_0 132322/1745 1:1 0.293 0.02 21.09 22.50 1.074 0.726 22.2  Back side 20 QPSK 1RB_0 132322/1745 1:1 0.964 0.10 22.09 22.50 1.074 1.002 22.2  Back side 20 QPSK 1RB_9 132572/1770 1:1 0.964 0.10 22.09 22.50 1.079 1.062 22.2  Back side 20 QPSK 1RB_9 132572/1770 1:1 0.984 0.10 22.09 22.50 1.079 1.099 1.059 22.2  Back side repeat 20 QPSK 1RB_9 132572/1770 1:1 0.984 0.10 22.09 22.50 1.079 1.099 1.029 22.2  Back side 20 QPSK 1RB_9 132572/1770 1:1 0.984 0.10 22.17 22.50 1.079 1.062 22.2  Back side 20 QPSK 1RB_0 132322/1745 1:1 0.984 0.10 22.17 22.50 1.079 1.029 22.2  Back side 20 QPSK 1RB_0 132322/1745 1:1 0.984 0.02 22.19 22.50 1.074 0.180 22.2  Bottom side 20 QPSK 1RB_0 132322/1745 1:1 0.176 0.01 22.19 22.50 1.074 0.180 22.2  Bottom side 20 QPSK 50RB_0 132072/1720 1:1 0.497 0.05 22.19 22.50 1.074 0.180 22.2  Back side 20 QPSK 50RB_0 132072/1720 1:1 0.497 0.05 22.19 22.50 1.074 0.180 22.2  Front side 20 QPSK 50RB_0 132072/1720 1:1 0.401 -0.18 21.05 21.50 1.109 0.485 22.2  Back side 20 QPSK 50RB_0 132072/1720 1:1 0.401 -0.18 21.05 21.50 1.109 0.788 22.2  Left side 20 QPSK 50RB_0 132072/1720 1:1 0.401 0.10 2.19 2.105 21.50 1.109 0.160 22.2  Back side 20 QPSK 50RB_0 132072/1720 1:1 0.401 0.10 2.105 21.50 1.109 0.160 22.2  Back side 20 QPSK 50RB_0 132072/1720 1:1 0.401 0.100 2.105 21.50 1.109 0.160 22.2  Back side 20 QPSK 50RB_0 132072/1720 1:1 0.140 0.06 21.05 21.50 1.109 0.407 22.2  Back side 20 QPSK 50RB_0 132072/1720 1:1 0.140 0.12 21.05 21.50 1.109 0.407 22.2  Back side 20 QPSK 50RB_0 132072/1720 1:1 0.168 0.04 22.19 22.50 1.074 0.180 22.2  Back side 20 QPSK 50RB_0 132072/1720 1:1 0.168 0.04 22.19 22.50 1.074 0.180 22.2  Back side 20 QPSK 50RB_0 132072/1720 1:1 0.168 0.06 22.19 22.50 1.074 0.180 22.2  Back side 20 QPSK 1RB_0 132322/1745 1:1 0.168 0.00 22.19 22.50 1.074 0.20 0.20 22.2  B	Back side	20	QPSK 1RB_0	132322/1745	1:1	0.396	0.19	22.19	22.50	1.074	0.425	22.2
Back side   20				Body Worn Tes	st data(S	Separate 15r	nm 50%R	B) Cover Ope	en			
Hotspot Test data(Separate 10mm 1RB) Cover Open	Front side	20	QPSK 50RB_0	132072/1720	1:1	0.233	0.09	21.05	21.50	1.109	0.258	22.2
Front side   20	Back side	20	QPSK 50RB_0	132072/1720	1:1	0.293	0.02	21.05	21.50	1.109	0.325	22.2
Back side				Hotspot Tes	st data(S	Separate 10r	nm 1RB)	Cover Open				
Back side	Front side	20	QPSK 1RB_0	132322/1745	1:1	0.676	-0.19	22.19	22.50	1.074	0.726	22.2
Back side	Back side	20	QPSK 1RB_0	132322/1745	1:1	0.933	0.13	22.19	22.50	1.074	1.002	22.2
Back side -repeat	Back side	20	QPSK 1RB_50	132072/1720	1:1	0.964	0.10	22.09	22.50	1.099	1.059	22.2
Left side 20 QPSK 1RB_0 132322/1745 1:1 0.168 0.02 22.19 22.50 1.074 0.180 22.2 Right side 20 QPSK 1RB_0 132322/1745 1:1 0.176 0.01 22.19 22.50 1.074 0.189 22.2 Bottom side 20 QPSK 1RB_0 132322/1745 1:1 0.497 0.05 22.19 22.50 1.074 0.534 22.2 Hotspot Test data (Separate 10mm 50%RB) Cover Open  Front side 20 QPSK 50RB_0 132072/1720 1:1 0.401 0.18 21.05 21.50 1.109 0.445 22.2 Back side 20 QPSK 50RB_0 132072/1720 1:1 0.710 0.06 21.05 21.50 1.109 0.788 22.2 Left side 20 QPSK 50RB_0 132072/1720 1:1 0.117 0.2 21.05 21.50 1.109 0.788 22.2 Right side 20 QPSK 50RB_0 132072/1720 1:1 0.117 0.2 21.05 21.50 1.109 0.130 22.2 Back side 20 QPSK 50RB_0 132072/1720 1:1 0.117 0.2 21.05 21.50 1.109 0.130 22.2 Back side 20 QPSK 50RB_0 132072/1720 1:1 0.144 0.12 21.05 21.50 1.109 0.160 22.2 Bottom side 20 QPSK 50RB_0 132072/1720 1:1 0.367 0.05 21.05 21.50 1.109 0.407 22.2 Back side 20 QPSK 50RB_0 132072/1720 1:1 0.367 0.05 21.05 21.50 1.109 0.407 22.2 Back side 20 QPSK 100RB_0 132072/1720 1:1 0.618 0.09 21.08 21.50 1.102 0.682 22.2 Back side 20 QPSK 1RB_0 132322/1745 1:1 0.688 0.04 22.19 22.50 1.074 0.680 22.2 Back side 20 QPSK 1RB_0 132322/1745 1:1 0.168 0.04 22.19 22.50 1.074 0.626 22.2 Back side 20 QPSK 50RB_0 132072/1720 1:1 0.329 0.04 22.19 22.50 1.074 0.626 22.2 Back side 20 QPSK 50RB_0 132072/1720 1:1 0.329 0.04 22.19 22.50 1.074 0.626 22.2 Back side 20 QPSK 50RB_0 132072/1720 1:1 0.329 0.04 22.19 22.50 1.074 0.266 22.2 Back side 20 QPSK 50RB_0 132072/1720 1:1 0.329 0.04 21.05 21.50 1.109 0.365 22.2 Back side 20 QPSK 50RB_0 132072/1720 1:1 0.329 0.04 22.19 22.50 1.074 0.227 22.2 Back side 20 QPSK 1RB_0 132322/1745 1:1 0.211 0.11 22.19 22.50 1.074 0.227 22.2 Back side 20 QPSK 1RB_0 132322/1745 1:1 0.077 0.08 22.19 22.50 1.074 0.227 22.2 Back side 20 QPSK 1RB_0 132322/1745 1:1 0.978 0.09 22.09 22.50 1.074 0.074 1.203 22.2 Back side 20 QPSK 1RB_50 132322/1745 1:1 1.120 0.03 22.17 22.50 1.079 1.203 22.2 Back side 20 QPSK 1RB_9 132572/1770 1:1 1.180 0.06 22.17 22.50 1.079 1.075 1.208 22.2 Back side 20 QPSK 1RB_9 132572/1770 1:1 1	Back side	20	QPSK 1RB_99	132572/1770	1:1	0.984	0.10	22.17	22.50	1.079	1.062	22.2
Right side   20	Back side -repeat	20	QPSK 1RB_99	132572/1770	1:1	0.954	0.14	22.17	22.50	1.079	1.029	22.2
Bottom side   20	Left side	20	QPSK 1RB_0	132322/1745	1:1	0.168	0.02	22.19	22.50	1.074	0.180	22.2
Hotspot Test data (Separate 10mm 50%RB) Cover Open	Right side	20	QPSK 1RB_0	132322/1745	1:1	0.176	0.01	22.19	22.50	1.074	0.189	22.2
Front side 20 QPSK 50RB_0 132072/1720 1:1 0.401 -0.18 21.05 21.50 1.109 0.445 22.2  Back side 20 QPSK 50RB_0 132072/1720 1:1 0.710 0.06 21.05 21.50 1.109 0.788 22.2  Left side 20 QPSK 50RB_0 132072/1720 1:1 0.117 0.2 21.05 21.50 1.109 0.130 22.2  Right side 20 QPSK 50RB_0 132072/1720 1:1 0.144 0.12 21.05 21.50 1.109 0.160 22.2  Bottom side 20 QPSK 50RB_0 132072/1720 1:1 0.367 0.05 21.05 21.50 1.109 0.407 22.2  Back side 20 QPSK 50RB_0 132072/1720 1:1 0.367 0.05 21.05 21.50 1.109 0.407 22.2  Hotspot Test data (Separate 10mm 100%RB) Cover Open  Back side 20 QPSK 100RB_0 132072/1720 1:1 0.619 0.19 21.08 21.50 1.102 0.682 22.2  Body Worn Test data (Separate 15mm 1RB) Cover Close  Front side 20 QPSK 1RB_0 132322/1745 1:1 0.168 0.04 22.19 22.50 1.074 0.180 22.2  Back side 20 QPSK 50RB_0 132072/1720 1:1 0.583 0.02 22.19 22.50 1.074 0.626 22.2  Back side 20 QPSK 50RB_0 132072/1720 1:1 0.107 0.05 21.05 21.50 1.109 0.365 22.2  Front side 20 QPSK 50RB_0 132072/1720 1:1 0.107 0.05 21.05 21.50 1.109 0.365 22.2  Back side 20 QPSK 1RB_0 132072/1720 1:1 0.107 0.05 21.05 21.50 1.109 0.365 22.2  Back side 20 QPSK 1RB_0 132072/1720 1:1 0.107 0.05 21.05 21.50 1.109 0.365 22.2  Back side 20 QPSK 1RB_0 132072/1720 1:1 0.107 0.05 21.05 21.50 1.074 0.227 22.2  Back side 20 QPSK 1RB_0 132322/1745 1:1 0.211 0.11 22.19 22.50 1.074 1.203 22.2  Back side 20 QPSK 1RB_0 132322/1745 1:1 0.211 0.11 22.19 22.50 1.074 1.203 22.2  Back side 20 QPSK 1RB_0 132322/1745 1:1 0.978 0.09 22.09 22.50 1.074 1.203 22.2  Back side 20 QPSK 1RB_9 132572/1770 1:1 1.180 0.06 22.17 22.50 1.079 1.273 22.2  Back side 20 QPSK 1RB_9 132572/1770 1:1 1.100.077 0.12 22.19 22.50 1.074 0.083 22.2  Left side 20 QPSK 1RB_0 132322/1745 1:1 0.077 0.12 22.19 22.50 1.074 0.083 22.2  Left side 20 QPSK 1RB_0 132322/1745 1:1 0.077 0.12 22.19 22.50 1.074 0.083 22.2	Bottom side	20	QPSK 1RB_0	132322/1745	1:1	0.497	0.05	22.19	22.50	1.074	0.534	22.2
Back side   20	•			Hotspot Test	data (Se	parate 10m	m 50%RE	3) Cover Oper	)			
Left side         20         QPSK 50RB_0         132072/1720         1:1         0.117         0.2         21.55         1.109         0.130         22.2           Right side         20         QPSK 50RB_0         132072/1720         1:1         0.144         0.12         21.05         21.50         1.109         0.160         22.2           Bottom side         20         QPSK 50RB_0         132072/1720         1:1         0.367         0.05         21.05         21.50         1.109         0.407         22.2           Hotspot Test data (Separate 10mm 100%RB) Cover Open           Back side         20         QPSK 100RB_0         132072/1720         1:1         0.619         0.19         21.08         21.50         1.102         0.682         22.2           Back side         20         QPSK 1RB_0         132322/1745         1:1         0.168         0.04         22.19         22.50         1.074         0.180         22.2           Back side         20         QPSK 1RB_0         132322/1745         1:1         0.583         0.02         22.19         22.50         1.074         0.626         22.2           Back side         20         QPSK 50RB_0	Front side	20	QPSK 50RB_0	132072/1720	1:1	0.401	-0.18	21.05	21.50	1.109	0.445	22.2
Right side	Back side	20	QPSK 50RB_0	132072/1720	1:1	0.710	0.06	21.05	21.50	1.109	0.788	22.2
Bottom side         20         QPSK 50RB_0         132072/1720         1:1         0.367         0.05         21.05         21.50         1.109         0.407         22.2           Hotspot Test data (Separate 10mm 100%RB) Cover Open           Back side         20         QPSK 100RB_0         132072/1720         1:1         0.619         0.19         21.08         21.50         1.102         0.682         22.2           Body Worn Test data(Separate 15mm 1RB) Cover Close           Front side         20         QPSK 1RB_0         132322/1745         1:1         0.168         0.04         22.19         22.50         1.074         0.180         22.2           Back side         20         QPSK 1RB_0         132322/1745         1:1         0.168         0.04         22.19         22.50         1.074         0.180         22.2           Back side         20         QPSK 1RB_0         132072/1720         1:1         0.583         0.02         22.19         22.50         1.074         0.626         22.2           Back side         20         QPSK 50RB_0         132072/1720         1:1         0.107         0.05         21.05         21.50         1.109         0.365	Left side	20	QPSK 50RB_0	132072/1720	1:1	0.117	0.2	21.05	21.50	1.109	0.130	22.2
Hotspot Test data (Separate 10mm 100%RB) Cover Open  Back side	Right side	20	QPSK 50RB_0	132072/1720	1:1	0.144	0.12	21.05	21.50	1.109	0.160	22.2
Back side         20         QPSK 100RB_0         132072/1720         1:1         0.619         0.19         21.08         21.50         1.102         0.682         22.2           Body Worn Test data(Separate 15mm 1RB) Cover Close           Front side         20         QPSK 1RB_0         132322/1745         1:1         0.168         0.04         22.19         22.50         1.074         0.180         22.2           Body Worn Test data(Separate 15mm 50%RB) Cover Close           Front side         20         QPSK 50RB_0         132072/1720         1:1         0.107         0.05         21.05         21.50         1.109         0.119         22.2           Back side         20         QPSK 50RB_0         132072/1720         1:1         0.107         0.05         21.05         21.50         1.109         0.365         22.2           Hotspot Test data(Separate 10mm 1RB) Cover Close           Front side         20         QPSK 1RB_0         132322/1745         1:1         0.211         0.11         22.19         22.50         1.074         0.227         22.2           Back side         20         QPSK 1RB_0         132322/1745         1:1         0.211	Bottom side	20	QPSK 50RB_0	132072/1720	1:1	0.367	0.05	21.05	21.50	1.109	0.407	22.2
Back side         20         QPSK 100RB_0         132072/1720         1:1         0.619         0.19         21.08         21.50         1.102         0.682         22.2           Body Worn Test data(Separate 15mm 1RB) Cover Close           Front side         20         QPSK 1RB_0         132322/1745         1:1         0.168         0.04         22.19         22.50         1.074         0.180         22.2           Body Worn Test data(Separate 15mm 50%RB) Cover Close           Front side         20         QPSK 50RB_0         132072/1720         1:1         0.107         0.05         21.05         21.50         1.109         0.119         22.2           Back side         20         QPSK 50RB_0         132072/1720         1:1         0.107         0.05         21.05         21.50         1.109         0.365         22.2           Hotspot Test data(Separate 10mm 1RB) Cover Close           Front side         20         QPSK 1RB_0         132322/1745         1:1         0.211         0.11         22.19         22.50         1.074         0.227         22.2           Back side         20         QPSK 1RB_0         132322/1745         1:1         0.211				Hotspot Test of	data (Se	parate 10mn	n 100%R	B) Cover Ope	n			
Front side         20         QPSK 1RB_0         132322/1745         1:1         0.168         0.04         22.19         22.50         1.074         0.180         22.2           Back side         20         QPSK 1RB_0         132322/1745         1:1         0.583         0.02         22.19         22.50         1.074 <b>0.626</b> 22.2           Back side         20         QPSK 50RB_0         132072/1720         1:1         0.107         0.05         21.05         21.50         1.109         0.119         22.2           Back side         20         QPSK 50RB_0         132072/1720         1:1         0.329         0.04         21.05         21.50         1.109         0.365         22.2           Hotspot Test data(Separate 10mm 1RB) Cover Close           Front side         20         QPSK 1RB_0         132322/1745         1:1         0.211         0.11         22.19         22.50         1.074         0.227         22.2           Back side         20         QPSK 1RB_0         132322/1745         1:1         1.120         -0.08         22.19         22.50         1.074         1.203         22.2           Back side         20	Back side	20	QPSK 100RB_0							1.102	0.682	22.2
Back side         20         QPSK 1RB_0         132322/1745         1:1         0.583         0.02         22.19         22.50         1.074         0.626         22.2           Body Worn Test data(Separate 15mm 50%RB) Cover Close           Front side         20         QPSK 50RB_0         132072/1720         1:1         0.107         0.05         21.05         21.50         1.109         0.119         22.2           Back side         20         QPSK 50RB_0         132072/1720         1:1         0.329         0.04         21.05         21.50         1.109         0.365         22.2           Hotspot Test data(Separate 10mm 1RB) Cover Close           Front side         20         QPSK 1RB_0         132322/1745         1:1         0.211         0.11         22.19         22.50         1.074         0.227         22.2           Back side         20         QPSK 1RB_0         132322/1745         1:1         1.120         -0.08         22.19         22.50         1.074         0.227         22.2           Back side         20         QPSK 1RB_50         132072/1720         1:1         0.978         0.09         22.09         22.50         1.079         1.273         22.2 </td <td>•</td> <td></td> <td></td> <td>Body Worn T</td> <td>est data</td> <td>(Separate 15</td> <td>mm 1RB</td> <td>) Cover Close</td> <td><del>,</del></td> <td></td> <td></td> <td></td>	•			Body Worn T	est data	(Separate 15	mm 1RB	) Cover Close	<del>,</del>			
Body Worn Test data(Separate 15mm 50%RB) Cover Close  Front side 20 QPSK 50RB_0 132072/1720 1:1 0.107 0.05 21.05 21.50 1.109 0.119 22.2  Back side 20 QPSK 50RB_0 132072/1720 1:1 0.329 0.04 21.05 21.50 1.109 0.365 22.2  Hotspot Test data(Separate 10mm 1RB) Cover Close  Front side 20 QPSK 1RB_0 132322/1745 1:1 0.211 0.11 22.19 22.50 1.074 0.227 22.2  Back side 20 QPSK 1RB_0 132322/1745 1:1 1.120 -0.08 22.19 22.50 1.074 1.203 22.2  Back side 20 QPSK 1RB_5 132072/1720 1:1 0.978 0.09 22.09 22.50 1.099 1.075 22.2  Back side 20 QPSK 1RB_9 132572/1770 1:1 1.180 0.06 22.17 22.50 1.079 1.273 22.2  Back side-repeat 20 QPSK 1RB_9 132572/1770 1:1 1.120 0.03 22.17 22.50 1.079 1.208 22.2  Left side 20 QPSK 1RB_0 132322/1745 1:1 0.077 0.12 22.19 22.50 1.074 0.083 22.2	Front side	20	QPSK 1RB_0	132322/1745	1:1	0.168	0.04	22.19	22.50	1.074	0.180	22.2
Front side 20 QPSK 50RB_0 132072/1720 1:1 0.107 0.05 21.05 21.50 1.109 0.119 22.2  Back side 20 QPSK 50RB_0 132072/1720 1:1 0.329 0.04 21.05 21.50 1.109 0.365 22.2  Hotspot Test data(Separate 10mm 1RB) Cover Close  Front side 20 QPSK 1RB_0 132322/1745 1:1 0.211 0.11 22.19 22.50 1.074 0.227 22.2  Back side 20 QPSK 1RB_0 132322/1745 1:1 1.120 -0.08 22.19 22.50 1.074 1.203 22.2  Back side 20 QPSK 1RB_5 132072/1720 1:1 0.978 0.09 22.09 22.50 1.099 1.075 22.2  Back side 20 QPSK 1RB_9 132572/1770 1:1 1.180 0.06 22.17 22.50 1.079 1.273 22.2  Back side-repeat 20 QPSK 1RB_99 132572/1770 1:1 1.120 0.03 22.17 22.50 1.079 1.208 22.2  Left side 20 QPSK 1RB_0 132322/1745 1:1 0.077 0.12 22.19 22.50 1.074 0.083 22.2	Back side	20	QPSK 1RB_0	132322/1745	1:1	0.583	0.02	22.19	22.50	1.074	0.626	22.2
Back side         20         QPSK 50RB_0         132072/1720         1:1         0.329         0.04         21.05         21.50         1.109         0.365         22.2           Hotspot Test data(Separate 10mm 1RB) Cover Close           Front side         20         QPSK 1RB_0         132322/1745         1:1         0.211         0.11         22.19         22.50         1.074         0.227         22.2           Back side         20         QPSK 1RB_0         132322/1745         1:1         1.120         -0.08         22.19         22.50         1.074         1.203         22.2           Back side         20         QPSK 1RB_50         132072/1720         1:1         0.978         0.09         22.09         22.50         1.099         1.075         22.2           Back side         20         QPSK 1RB_99         132572/1770         1:1         1.180         0.06         22.17         22.50         1.079         1.273         22.2           Back side-repeat         20         QPSK 1RB_99         132572/1770         1:1         1.120         0.03         22.17         22.50         1.079         1.208         22.2           Left side         20         QPSK 1RB_0         132322/1				Body Worn Tes	st data(S	Separate 15r	nm 50%R	B) Cover Clos	se			
Back side         20         QPSK 50RB_0         132072/1720         1:1         0.329         0.04         21.05         21.50         1.109         0.365         22.2           Hotspot Test data(Separate 10mm 1RB) Cover Close           Front side         20         QPSK 1RB_0         132322/1745         1:1         0.211         0.11         22.19         22.50         1.074         0.227         22.2           Back side         20         QPSK 1RB_0         132322/1745         1:1         1.120         -0.08         22.19         22.50         1.074         1.203         22.2           Back side         20         QPSK 1RB_50         132072/1720         1:1         0.978         0.09         22.09         22.50         1.099         1.075         22.2           Back side         20         QPSK 1RB_99         132572/1770         1:1         1.180         0.06         22.17         22.50         1.079         1.273         22.2           Back side-repeat         20         QPSK 1RB_99         132572/1770         1:1         1.120         0.03         22.17         22.50         1.079         1.208         22.2           Left side         20         QPSK 1RB_0         132322/1	Front side	20	QPSK 50RB_0	132072/1720	1:1	0.107	0.05	21.05	21.50	1.109	0.119	22.2
Hotspot Test data(Separate 10mm 1RB) Cover Close  Front side 20 QPSK 1RB_0 132322/1745 1:1 0.211 0.11 22.19 22.50 1.074 0.227 22.2  Back side 20 QPSK 1RB_0 132322/1745 1:1 1.120 -0.08 22.19 22.50 1.074 1.203 22.2  Back side 20 QPSK 1RB_50 132072/1720 1:1 0.978 0.09 22.09 22.50 1.099 1.075 22.2  Back side 20 QPSK 1RB_99 132572/1770 1:1 1.180 0.06 22.17 22.50 1.079 1.273 22.2  Back side-repeat 20 QPSK 1RB_99 132572/1770 1:1 1.120 0.03 22.17 22.50 1.079 1.208 22.2  Left side 20 QPSK 1RB_0 132322/1745 1:1 0.077 0.12 22.19 22.50 1.074 0.083 22.2		20	QPSK 50RB_0		1:1	0.329	0.04	21.05	21.50	1.109	0.365	22.2
Front side         20         QPSK 1RB_0         132322/1745         1:1         0.211         0.11         22.19         22.50         1.074         0.227         22.2           Back side         20         QPSK 1RB_0         132322/1745         1:1         1.120         -0.08         22.19         22.50         1.074         1.203         22.2           Back side         20         QPSK 1RB_50         132072/1720         1:1         0.978         0.09         22.09         22.50         1.099         1.075         22.2           Back side         20         QPSK 1RB_99         132572/1770         1:1         1.180         0.06         22.17         22.50         1.079         1.273         22.2           Back side-repeat         20         QPSK 1RB_99         132572/1770         1:1         1.120         0.03         22.17         22.50         1.079         1.208         22.2           Left side         20         QPSK 1RB_0         132322/1745         1:1         0.077         0.12         22.19         22.50         1.074         0.083         22.2		•		Hotspot Tes	st data(S	Separate 10n	nm 1RB)	Cover Close				
Back side         20         QPSK 1RB_0         132322/1745         1:1         1.120         -0.08         22.19         22.50         1.074         1.203         22.2           Back side         20         QPSK 1RB_50         132072/1720         1:1         0.978         0.09         22.09         22.50         1.099         1.075         22.2           Back side         20         QPSK 1RB_99         132572/1770         1:1         1.180         0.06         22.17         22.50         1.079         1.273         22.2           Back side-repeat         20         QPSK 1RB_99         132572/1770         1:1         1.120         0.03         22.17         22.50         1.079         1.208         22.2           Left side         20         QPSK 1RB_0         132322/1745         1:1         0.077         0.12         22.19         22.50         1.074         0.083         22.2	Front side	20	QPSK 1RB_0						22.50	1.074	0.227	22.2
Back side         20         QPSK 1RB_50         132072/1720         1:1         0.978         0.09         22.09         22.50         1.099         1.075         22.2           Back side         20         QPSK 1RB_99         132572/1770         1:1         1.180         0.06         22.17         22.50         1.079         1.273         22.2           Back side-repeat         20         QPSK 1RB_99         132572/1770         1:1         1.120         0.03         22.17         22.50         1.079         1.208         22.2           Left side         20         QPSK 1RB_0         132322/1745         1:1         0.077         0.12         22.19         22.50         1.074         0.083         22.2	Back side	20	QPSK 1RB_0	132322/1745	1:1	1.120	-0.08	22.19	22.50	1.074	1.203	22.2
Back side         20         QPSK 1RB_99         132572/1770         1:1         1.180         0.06         22.17         22.50         1.079         1.273         22.2           Back side-repeat         20         QPSK 1RB_99         132572/1770         1:1         1.120         0.03         22.17         22.50         1.079         1.208         22.2           Left side         20         QPSK 1RB_0         132322/1745         1:1         0.077         0.12         22.19         22.50         1.074         0.083         22.2		20										
Back side-repeat         20         QPSK 1RB_99         132572/1770         1:1         1.120         0.03         22.17         22.50         1.079         1.208         22.2           Left side         20         QPSK 1RB_0         132322/1745         1:1         0.077         0.12         22.19         22.50         1.074         0.083         22.2												
Left side 20 QPSK 1RB_0 132322/1745 1:1 0.077 0.12 22.19 22.50 1.074 0.083 22.2												
Right side   20   QPSK 1RB_0   132322/1745   1:1   0.087   0.15   22.19   22.50   1.074   0.093   22.2			QPSK 1RB_0	132322/1745					22.50			



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Bottom side	20	QPSK 1RB_0	132322/1745	1:1	0.414	0.11	22.19	22.50	1.074	0.445	22.2		
			Hotspot Test	data (Se	parate 10mi	m 50%RB	) Cover Close	)					
Front side	20	QPSK 50RB_0	132072/1720	1:1	0.144	0.03	21.05	21.50	1.109	0.160	22.2		
Back side	20	QPSK 50RB_0	132072/1720	1:1	0.709	0.16	21.05	21.50	1.109	0.786	22.2		
Left side	20	QPSK 50RB_0	132072/1720	1:1	0.0461	0.14	21.05	21.50	1.109	0.051	22.2		
Right side	20	QPSK 50RB_0	132072/1720	1:1	0.067	0.11	21.05	21.50	1.109	0.074	22.2		
Bottom side	20	QPSK 50RB_0	132072/1720	1:1	0.325	0.10	21.05	21.50	1.109	0.360	22.2		
	Hotspot Test data (Separate 10mm 100%RB) Cover Close												
Back side	Back side 20 QPSK 100RB_0 132072/1720 1:1 0.751 -0.02 21.08 21.50 1.102 0.827 22.2												

Table 19: SAR of LTE Band 66 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)	, 5,	SAR (1g)		SAR (1g)	SAR (1g)
Back side	132572/1770	0.984	0.954	1.031	N/A	N/A
Back side	132572/1770	1.180	1.120	1.054	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.



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<sup>2)</sup> A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

<sup>3)</sup> A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

<sup>4)</sup> Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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### 8.2.10 SAR Result of LTE Band 71

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g		Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g(W/kg)	Liquid Temp.(°C)
		•		H	ead Test Data	(1RB) Cover	Open	·			
Left cheek	20	QPSK 1_50	133222/673	1:1	0.057	-0.10	24.32	24.50	1.042	0.060	22.1
Left tilted	20	QPSK 1_50	133222/673	1:1	0.009	-0.02	24.32	24.50	1.042	0.010	22.1
Right cheek	20	QPSK 1_50	133222/673	1:1	0.040	0.00	24.32	24.50	1.042	0.042	22.1
Right tilted	20	QPSK 1_50	133222/673	1:1	0.009	0.19	24.32	24.50	1.042	0.009	22.1
				Hea	ad Test Data(5	0%RB) Cov	er Open				
Left cheek	20	QPSK 50_0	133222/673	1:1	0.045	0.08	23.24	23.50	1.062	0.048	22.1
Left tilted	20	QPSK 50_0	133222/673	1:1	0.006	-0.05	23.24	23.50	1.062	0.006	22.1
Right cheek	20	QPSK 50_0	133222/673	1:1	0.027	0.00	23.24	23.50	1.062	0.028	22.1
Right tilted	20	QPSK 50_0	133222/673	1:1	0.005	0.13	23.24	23.50	1.062	0.005	22.1
			Body	worn T	est data(Sepa	rate 15mm 1	1RB) Cover O <sub>l</sub>	oen			
Front side	20	QPSK 1_50	133222/673	1:1	0.126	0.00	24.32	24.50	1.042	0.131	22.1
Back side	20	QPSK 1_50	133222/673	1:1	0.251	-0.13	24.32	24.50	1.042	0.262	22.1
			Body v	vorn Te	st data(Separa	te 15mm 50	%RB) Cover (	Open			
Front side	20	QPSK 50_0	133222/673	1:1	0.109	0.00	23.24	23.50	1.062	0.116	22.1
Back side	20	QPSK 50_0	133222/673	1:1	0.192	0.07	23.24	23.50	1.062	0.204	22.1
			Hots	spot Te	st data(Separa	ite 10mm 1F	RB) Cover Ope	en			
Front side	20	QPSK 1_50	133222/673	1:1	0.159	0.00	24.32	24.50	1.042	0.166	22.1
Back side	20	QPSK 1_50	133222/673	1:1	0.340	0.07	24.32	24.50	1.042	0.354	22.1
Left side	20	QPSK 1_50	133222/673	1:1	0.076	0.16	24.32	24.50	1.042	0.079	22.1
Rightt side	20	QPSK 1_50	133222/673	1:1	0.162	0.19	24.32	24.50	1.042	0.169	22.1
Bottomside	20	QPSK 1_50	133222/673	1:1	0.077	-0.01	24.32	24.50	1.042	0.080	22.1
			Hotsp	ot Test	data(Separate	10mm 50%	RB) Cover Op	oen			
Front side	20	QPSK 50_0	133222/673	1:1	0.127	0.06	23.24	23.50	1.062	0.135	22.1
Back side	20	QPSK 50_0	133222/673	1:1	0.282	0.11	23.24	23.50	1.062	0.299	22.1
Left side	20	QPSK 50_0	133222/673	1:1	0.056	0.11	23.24	23.50	1.062	0.059	22.1
Rightt side	20	QPSK 50_0	133222/673	1:1	0.118	0.02	23.24	23.50	1.062	0.125	22.1
Bottom side	20	QPSK 50_0	133222/673	1:1	0.060	0.15	23.24	23.50	1.062	0.064	22.1
			Body	worn T	est data(Sepa	rate 15mm 1	IRB) Cover Cl	ose			
Front side	20	QPSK 1_50	133222/673	1:1	0.066	0.09	24.32	24.50	1.042	0.069	22.1
Back side	20	QPSK 1_50	133222/673	1:1	0.270	0.09	24.32	24.50	1.042	0.281	22.1
			Body v	orn Te	st data(Separa	ite 15mm 50	%RB) Cover (	Close			
Front side	20	QPSK 50_0	133222/673	1:1	0.051	0.19	23.24	23.50	1.062	0.054	22.1
Back side	20	QPSK 50_0	133222/673	1:1	0.217	0.12	23.24	23.50	1.062	0.230	22.1
					st data(Separa	ite 10mm 1R	B) Cover Clos	se			
Front side	20	QPSK 1_50	133222/673	1:1	0.083	0.12	24.32	24.50	1.042	0.086	22.1
Back side	20	QPSK 1_50	133222/673	1:1	0.411	-0.02	24.32	24.50	1.042	0.428	22.1
Left side	20	QPSK 1_50	133222/673	1:1	0.110	0.15	24.32	24.50	1.042	0.115	22.1
Rightt side	20	QPSK 1_50	133222/673	1:1	0.176	0.08	24.32	24.50	1.042	0.183	22.1
Bottomside	20	QPSK 1_50	133222/673	1:1	0.087	0.15	24.32	24.50	1.042	0.090	22.1
			Hotsp	ot Test	data(Separate	10mm 50%	RB) Cover Cl	ose			
Front side	20	QPSK 50_0	133222/673	1:1	0.067	0.02	23.24	23.50	1.062	0.071	22.1
Back side	20	QPSK 50_0	133222/673	1:1	0.341	0.07	23.24	23.50	1.062	0.362	22.1
Left side	20	QPSK 50_0	133222/673	1:1	0.085	0.15	23.24	23.50	1.062	0.090	22.1
Rightt side	20	QPSK 50_0	133222/673	1:1	0.138	0.12	23.24	23.50	1.062	0.147	22.1
Bottom side	20	QPSK 50_0	133222/673	1:1	0.071	0.00	23.24	23.50	1.062	0.075	22.1

Table 20: SAR of LTE Band 71 for Head and Body.



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### 8.2.11 SAR Result of WIFI 2.4G

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
	Head Test data Cover Open										
Left cheek	802.11b	11/2462	97.60%	1.025	0.092	0.03	16.86	17.00	1.033	0.097	22.0
Left tilted	802.11b	11/2462	97.60%	1.025	0.015	0.00	16.86	17.00	1.033	0.016	22.0
Right cheek	802.11b	11/2462	97.60%	1.025	0.078	0.09	16.86	17.00	1.033	0.083	22.0
Right tilted	802.11b	11/2462	97.60%	1.025	0.021	-0.08	16.86	17.00	1.033	0.022	22.0
			Body w	orn Test data	(Separate	15mm) C	over Open				
Front side	802.11b	11/2462	97.60%	1.025	0.037	0.15	16.86	17.00	1.318	0.050	22.0
Back side	802.11b	11/2462	97.60%	1.025	0.097	-0.04	16.86	17.00	1.318	0.131	22.0
	Hotspot Test data (Separate 10mm) Cover Open										
Front side	802.11b	11/2462	97.60%	1.025	0.082	-0.06	16.86	17.00	1.318	0.111	22.0
Back side	802.11b	11/2462	97.60%	1.025	0.156	-0.06	16.86	17.00	1.318	0.211	22.0
Left side	802.11b	11/2462	97.60%	1.025	0.260	0.07	16.86	17.00	1.318	0.351	22.0
Right side	802.11b	11/2462	97.60%	1.025	0.050	0.05	16.86	17.00	1.318	0.068	22.0
Bottom side	802.11b	11/2462	97.60%	1.025	0.101	-0.03	16.86	17.00	1.318	0.136	22.0
			Body w	orn Test data	(Separate	15mm) C	over Close				
Front side	802.11b	11/2462	97.60%	1.025	0.049	0.07	16.86	17.00	1.318	0.066	22.0
Back side	802.11b	11/2462	97.60%	1.025	0.104	-0.19	16.86	17.00	1.318	0.140	22.0
			Hotsp	ot Test data (	Separate 1	0mm) Co	ver Close				
Front side	802.11b	11/2462	97.60%	1.025	0.069	-0.01	16.86	17.00	1.318	0.093	22.0
Back side	802.11b	11/2462	97.60%	1.025	0.174	-0.05	16.86	17.00	1.318	0.235	22.0
Left side	802.11b	11/2462	97.60%	1.025	0.167	0.05	16.86	17.00	1.318	0.226	22.0
Right side	802.11b	11/2462	97.60%	1.025	0.037	0.15	16.86	17.00	1.318	0.050	22.0
Top side	802.11b	11/2462	97.60%	1.025	0.072	0.02	16.86	17.00	1.318	0.097	22.0

Table 21: SAR of WIFI 2.4G for Head and Body. Note:

1) When the highest reported SAR for the initial test configuration 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 test for the other 802.11 modes are not required.

Mode	Tune-up (dBm)	Tune-up (mw)	Hightest Reported SAR1-g(W/kg)	Adjusted SAR1-g(W/kg)	SAR test			
		Hea	nd					
802.11b	17.00	50.12	0.097	/	Yes			
802.11g	13.00	19.95	/	0.039	No			
802.1n 20M	13.00	19.95	/	0.039	No			
802.1n 40M	13.00	19.95	/	0.039	No			
	Body worn Test data(Separate 15mm)							
802.11b	17.00	50.12	0.140	/	Yes			
802.11g	13.00	19.95	/	0.056	No			
802.1n 20M	13.00	19.95	/	0.056	No			
802.1n 40M	13.00	19.95	/	0.056	No			
		Hotspot Test data (	Separate 10mm)					
802.11b	17.00	50.12	0.351	1	Yes			
802.11g	13.00	19.95	/	0.140	No			
802.1n 20M	13.00	19.95	/	0.140	No			
802.1n 40M	13.00	19.95	/	0.140	No			



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### 8.2.12 SAR Result of BT

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
	Head Test data Cover Open										
Left cheek	DH5	39/2441	76.90%	1.300	0.024	-0.02	10.72	11.00	1.067	0.034	22.0
Left tilted	DH5	39/2441	76.90%	1.300	0.001	-0.04	10.72	11.00	1.067	0.001	22.0
Right cheek	DH5	39/2441	76.90%	1.300	0.011	0.09	10.72	11.00	1.067	0.015	22.0
Right tilted	DH5	39/2441	76.90%	1.300	0.001	0.03	10.72	11.00	1.067	0.001	22.0
			Во	dy worn Test	data (Separ	ate 15mm	n) Cover Open				
Front side	DH5	39/2441	76.90%	1.300	0.014	0.10	10.72	11.00	1.067	0.020	22.0
Back side	DH5	39/2441	76.90%	1.300	0.024	0.07	10.72	11.00	1.067	0.033	22.0
	Hotspot Test data (Separate 10mm) Cover Open										
Front side	DH5	39/2441	76.90%	1.300	0.020	0.09	10.72	11.00	1.067	0.027	22.0
Back side	DH5	39/2441	76.90%	1.300	0.044	-0.04	10.72	11.00	1.067	0.060	22.0
Left side	DH5	39/2441	76.90%	1.300	0.047	-0.05	10.72	11.00	1.067	0.065	22.0
Right side	DH5	39/2441	76.90%	1.300	0.045	0.12	10.72	11.00	1.067	0.062	22.0
Bottom side	DH5	39/2441	76.90%	1.300	0.045	0.08	10.72	11.00	1.067	0.062	22.0
			Во	dy worn Test o	data (Separa	ate 15mm	) Cover Close	)			
Front side	DH5	39/2441	76.90%	1.300	0.009	0.03	10.72	11.00	1.067	0.013	22.0
Back side	DH5	39/2441	76.90%	1.300	0.014	0.05	10.72	11.00	1.067	0.020	22.0
			Н	lotspot Test da	ata (Separat	e 10mm)	Cover Close				
Front side	DH5	39/2441	76.90%	1.300	0.012	0.05	10.72	11.00	1.067	0.017	22.0
Back side	DH5	39/2441	76.90%	1.300	0.026	0.09	10.72	11.00	1.067	0.036	22.0
Left side	DH5	39/2441	76.90%	1.300	0.025	0.09	10.72	11.00	1.067	0.035	22.0
Right side	DH5	39/2441	76.90%	1.300	0.025	0.15	10.72	11.00	1.067	0.035	22.0
Top side	DH5	39/2441	76.90%	1.300	0.015	0.04	10.72	11.00	1.067	0.021	22.0

Table 22: SAR of BT for Head and Body.



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### 8.3 LTE Band 41 Power Class 2 and Power Class 3 Linearity

This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the highest power and available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR for each exposure condition. The linearity between the Power Class 2 and Power Class 3 SAR results and the respective frame averaged powers was calculated to determine that the results were linear.

Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes was < 10% and all reported SAR values were < 1.4 W/kg for 1g and < 3.5 W/kg for 10g.

LTE Band 41 SAR testing with power class 2 at the highest power and available duty factor was additionally performed for the power class 3 configuration with the highest SAR for each exposure condition.

LTF Band 41 Head Linearity Data:

	Power Class 3	Power Class 2
Tune-up(dBm)	20.70	23.00
Measured power(dBm)	20.44	22.83
Measured SAR(W/kg)	0.024	0.026
Measured power(mw)	110.66	191.87
Duty Cycle	63.3%	43.3%
Frame Average power(mw)	70.05	83.08
% deviation from expected linearity		-9.71%

LTE Band 41 Body-Worn Linearity Data:

	Cover	Open	Cover Close		
	Power Class 3	Power Class 2	Power Class 3	Power Class 2	
Tune-up(dBm)	20.70	23.00	20.70	23.00	
Measured power(dBm)	20.44	22.83	20.44	22.83	
Measured SAR(W/kg)	0.497	0.647	0.516	0.653	
Measured power(mw)	110.66	191.87	110.66	191.87	
Duty Cycle	63.3%	43.3%	63.3%	43.3%	
Frame Average power(mw)	70.05	83.08	70.05	83.08	
% deviation from expected linearity		9.76%		6.70%	

LTE Band 41 Hotsnot Linearity Data:

	Cover	Open .	Cover Close		
	Power Class 3	Power Class 2	Power Class 3	Power Class 2	
Tune-up(dBm)	20.70	23.00	20.70	23.00	
Measured power(dBm)	19.93	22.82	20.13	22.79	
Measured SAR(W/kg)	1.08	1.3	1.12	1.28	
Measured power(mw)	98.40	191.43	103.04	190.11	
Duty Cycle	63.3%	43.3%	63.3%	43.3%	
Frame Average power(mw)	62.29	82.89	65.22	82.32	
% deviation from expected linearity		-9.54%		-9.45%	



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## 8.4 Multiple Transmitter Evaluation

### 8.4.1 Simultaneous SAR SAR test evaluation

#### Simultaneous Transmission Possibilities

NO	Simultaneous TX Combination	Head	Body- worn	Hotspot
1	WWAN+BT	Υ	Υ	Υ
2	WWAN+WIFI 2.4G	Y	Y	Υ
3	BT+WIFI 2.4G	N	N	N

#### Note:

1) The device does not support DTM function.





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### 8.4.2 Simultaneous Transmission SAR Summation Scenario

Simultaneous Transmission SAR Summation Scenario for WLAN Head:

	I ransmission SAR		SARmax (W/kg)		0		
Test	position	Main	WiFi 2.4G	BT	Summed SAR		
•		1	2	3	1+2	1+3	
	Left cheek	0.143	0.097	0.034	0.240	0.177	
CCMOTO	Left tilted	0.084	0.016	0.001	0.100	0.085	
GSM850	Right cheek	0.130	0.083	0.015	0.213	0.145	
	Right tilted	0.077	0.022	0.001	0.099	0.078	
	Left cheek	0.064	0.097	0.034	0.161	0.098	
GSM1900	Left tilted	0.040	0.016	0.001	0.056	0.041	
GSW1900	Right cheek	0.106	0.083	0.015	0.189	0.121	
	Right tilted	0.043	0.022	0.001	0.065	0.044	
	Left cheek	0.050	0.097	0.034	0.147	0.084	
WDO	Left tilted	0.078	0.016	0.001	0.094	0.079	
WB2	Right cheek	0.061	0.083	0.015	0.144	0.076	
	Right tilted	0.117	0.022	0.001	0.139	0.118	
	Left cheek	0.093	0.097	0.034	0.190	0.127	
\A/D.4	Left tilted	0.080	0.016	0.001	0.096	0.081	
WB4	Right cheek	0.170	0.083	0.015	0.253	0.185	
	Right tilted	0.105	0.022	0.001	0.127	0.106	
	Left cheek	0.041	0.097	0.034	0.138	0.075	
LTE D40	Left tilted	0.018	0.016	0.001	0.034	0.019	
LTE B12	Right cheek	0.041	0.083	0.015	0.124	0.056	
	Right tilted	0.025	0.022	0.001	0.047	0.026	
	Left cheek	0.049	0.097	0.034	0.146	0.083	
LTE DOE	Left tilted	0.048	0.016	0.001	0.064	0.049	
LTE B25	Right cheek	0.057	0.083	0.015	0.140	0.072	
	Right tilted	0.043	0.022	0.001	0.065	0.044	
	Left cheek	0.262	0.097	0.034	0.359	0.296	
LTE B26	Left tilted	0.137	0.016	0.001	0.153	0.138	
LIE DZ0	Right cheek	0.214	0.083	0.015	0.297	0.229	
	Right tilted	0.137	0.022	0.001	0.159	0.138	
	Left cheek	0.023	0.097	0.034	0.120	0.057	
LTE B41	Left tilted	0.023	0.016	0.001	0.039	0.024	
LIE D41	Right cheek	0.027	0.083	0.015	0.110	0.042	
	Right tilted	0.019	0.022	0.001	0.041	0.020	
	Left cheek	0.102	0.097	0.034	0.199	0.136	
LTE DES	Left tilted	0.086	0.016	0.001	0.102	0.087	
LTE B66	Right cheek	0.097	0.083	0.015	0.180	0.112	
	Right tilted	0.090	0.022	0.001	0.112	0.091	
	Left cheek	0.060	0.097	0.034	0.157	0.094	
LTE D74	Left tilted	0.010	0.016	0.001	0.026	0.011	
LTE B71	Right cheek	0.042	0.083	0.015	0.125	0.057	
	Right tilted	0.009	0.022	0.001	0.031	0.010	



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### Simultaneous Transmission SAR Summation Scenario for WLAN Body:

**Body-worn:** 

Body Worm.			SARmax (W/kg)	Summed SAR		
Test	position	Main	WiFi 2.4G	BT	Summe	eu SAR
		1	2	3	1+2	1+3
GSM850	Front side	0.306	0.066	0.020	0.372	0.326
GSIVIOSU	Back side	0.667	0.140	0.033	0.807	0.700
GSM1900	Front side	0.279	0.066	0.020	0.345	0.299
G3W1900	Back side	0.465	0.140	0.033	0.605	0.498
WB2	Front side	0.281	0.066	0.020	0.347	0.301
WDZ	Back side	0.882	0.140	0.033	1.022	0.915
WB4	Front side	0.374	0.066	0.020	0.440	0.394
VVD4	Back side	0.596	0.140	0.033	0.736	0.629
LTE B12	Front side	0.287	0.066	0.020	0.353	0.307
LIEDIZ	Back side	0.500	0.140	0.033	0.640	0.533
LTC DOE	Front side	0.310	0.066	0.020	0.376	0.330
LTE B25	Back side	0.535	0.140	0.033	0.675	0.568
LTE B26	Front side	0.259	0.066	0.020	0.325	0.279
LIE BZ0	Back side	0.527	0.140	0.033	0.667	0.560
LTE B41	Front side	0.039	0.066	0.020	0.105	0.059
LIE D41	Back side	0.679	0.140	0.033	0.819	0.712
LTE B66	Front side	0.311	0.066	0.020	0.377	0.331
LIE DOO	Back side	0.626	0.140	0.033	0.766	0.659
LTE B71	Front side	0.131	0.066	0.020	0.197	0.151
LIEDII	Back side	0.281	0.140	0.033	0.421	0.314

Hotenot:

Hotspot:									
			SARmax (W/kg)	Summed SAR					
Test	position	Main	WiFi 2.4G	BT	Summe	eu SAN			
		1	2	3	1+2	1+3			
	Front side	0.685	0.111	0.027	0.796	0.712			
	Back side	1.114	0.235	0.060	1.349	1.174			
CCMOEO	Left side	0.641	0.351	0.065	0.992	0.706			
GSM850	Right side	0.673	/	0.062	0.673	0.735			
	Top side	/	0.097	0.021	0.097	0.021			
	Bottom side	0.260	/	0.062	0.260	0.322			
	Front side	0.620	0.111	0.027	0.731	0.647			
	Back side	1.238	0.235	0.060	1.473	1.298			
GSM1900	Left side	0.146	0.351	0.065	0.497	0.211			
GSW1900	Right side	0.250	/	0.062	0.250	0.312			
	Top side	/	0.097	0.021	0.097	0.021			
	Bottom side	0.495	/	0.062	0.495	0.557			
	Front side	1.179	0.111	0.027	1.290	1.206			
WB2	Back side	1.268	0.235	0.060	1.503	1.328			
VVDZ	Left side	0.142	0.351	0.065	0.493	0.207			
	Right side	0.330	/	0.062	0.330	0.392			



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	Top side	/	0.097	0.021	0.097	0.021
	Bottom side	0.658	/	0.062	0.658	0.720
	Front side	0.671	0.111	0.027	0.782	0.698
	Back side	1.285	0.235	0.060	1.520	1.345
WD4	Left side	0.202	0.351	0.065	0.553	0.267
WB4	Right side	0.424	/	0.062	0.424	0.486
	Top side	/	0.097	0.021	0.097	0.021
	Bottom side	0.589	/	0.062	0.589	0.651
	Front side	0.172	0.111	0.027	0.283	0.199
	Back side	0.701	0.235	0.060	0.936	0.761
LTE DAO	Left side	0.194	0.351	0.065	0.545	0.259
LTE B12	Right side	0.294	/	0.062	0.294	0.356
	Top side	/	0.097	0.021	0.097	0.021
	Bottom side	0.107	/	0.062	0.107	0.169
	Front side	0.545	0.111	0.027	0.656	0.572
	Back side	1.027	0.235	0.060	1.262	1.087
LTE DOE	Left side	0.197	0.351	0.065	0.548	0.262
LTE B25	Right side	0.326	/	0.062	0.326	0.388
	Top side	1	0.097	0.021	0.097	0.021
	Bottom side	0.524	/	0.062	0.524	0.586
	Front side	0.382	0.111	0.027	0.493	0.409
	Back side	0.650	0.235	0.060	0.885	0.710
LTE DOG	Left side	0.374	0.351	0.065	0.725	0.439
LTE B26	Right side	0.457	/	0.062	0.457	0.519
	Top side	/	0.097	0.021	0.097	0.021
	Bottom side	0.186	/	0.062	0.186	0.248
	Front side	0.264	0.111	0.027	0.375	0.291
	Back side	1.355	0.235	0.060	1.590	1.415
	Left side	0.045	0.351	0.065	0.396	0.110
LTE B41	Right side	0.199	/	0.062	0.199	0.261
	Top side	/	0.097	0.021	0.097	0.021
	Bottom side	0.567	/	0.062	0.567	0.629
	Front side	0.726	0.111	0.027	0.837	0.753
	Back side	1.273	0.235	0.060	1.508	1.333
. TE Doo	Left side	0.180	0.351	0.065	0.531	0.245
LTE B66	Right side	0.189	/	0.062	0.189	0.251
	Top side	/	0.097	0.021	0.097	0.021
	Bottom side	0.534	/	0.062	0.534	0.596
	Front side	0.166	0.111	0.027	0.277	0.193
	Back side	0.428	0.235	0.060	0.663	0.488
. TE 5-4	Left side	0.115	0.351	0.065	0.466	0.180
LTE B71	Right side	0.183	/	0.062	0.183	0.245
	Top side	/	0.097	0.021	0.097	0.021
	Bottom side	0.090	/	0.062	0.090	0.152



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# 9 Equipment list

	Test Platform	SPEAG DASY5 Professional							
	Description	SAR Test System (Frequency range 300MHz-6GHz)							
	Software Reference	DASY52 52.10.4	(1527); SEMCAD	X 14.6.14(7483)					
		Н	ardware Referen	ice					
	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration			
$\boxtimes$	Twin Phantom	SPEAG	SAM 5	1481	NCR	NCR			
$\boxtimes$	Twin Phantom	SPEAG	SAM 6	1824	NCR	NCR			
$\boxtimes$	DAE	SPEAG	DAE3	414	2020-12-30	2021-12-29			
$\boxtimes$	DAE	SPEAG	DAE4	1327	2021-11-05	2022-11-04			
$\boxtimes$	E-Field Probe	SPEAG	EX3DV4	3789	2021-08-12	2022-08-11			
$\boxtimes$	E-Field Probe	SPEAG	EX3DV4	7620	2021-08-24	2022-08-23			
$\boxtimes$	Validation Kits	SPEAG	D750V3	1210	2021-09-08	2024-09-07			
	Validation Kits	SPEAG	D835V2	4d256	2020-04-15	2023-04-14			
$\boxtimes$	Validation Kits	SPEAG	D1750V2	1105	2020-08-29	2023-08-28			
$\boxtimes$	Validation Kits	SPEAG	D1900V2	5d114	2020-08-27	2023-08-26			
$\boxtimes$	Validation Kits	SPEAG	D2450V2	1038	2020-04-08	2023-04-07			
$\boxtimes$	Validation Kits	SPEAG	D2600V2	1180	2021-05-12	2024-05-11			
$\boxtimes$	Dielectric parameter probes	SPEAG	DAKS-3.5	1120	2021-02-24	2022-02-23			
$\boxtimes$	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	0050920	2021-03-02	2022-03-01			
	Universal Radio Communication Tester	R&S	CMW500	111637	2021-09-29	2022-09-28			
$\boxtimes$	Radio Communication Analyzer	Anritsu	MT8820C	6201010267	2021-04-01	2022-03-31			
$\boxtimes$	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR			
$\boxtimes$	Signal Generator	R&S	SMB100A	182393	2021-02-20	2022-02-19			
	Preamplifier	Qiji	YX28980933	202104001	NCR	NCR			
$\boxtimes$	Power Meter	Aglient	E4419B	6843318103	2021-06-08	2022-06-07			
$\boxtimes$	Power Sensor	Aglient	E9301A	MY41496508	2021-09-09	2022-09-08			
$\boxtimes$	Power Sensor	Aglient	E9301H	MY41495605	2021-06-08	2022-06-07			
$\boxtimes$	Attenuator	SHX	TS2-3dB	30704	NCR	NCR			
$\boxtimes$	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR			
$\boxtimes$	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR			
$\boxtimes$	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR			



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$\boxtimes$	Speed reading thermometer	LKM	DTM3000	SUW201-30-01	2021-10-09	2022-10-08
$\boxtimes$	Humidity and Temperature Indicator	MingGao	MingGao	NA	2021-06-16	2022-06-15

Note: All the equipments are within the valid period when the tests are performed.

### 10 Calibration certificate

Please see the Appendix C

### 11 Photographs

Please see the Appendix D

**Appendix A: Detailed System Check Results** 

**Appendix B: Detailed Test Results** 

**Appendix C: Calibration certificate** 

**Appendix D: Photographs** 





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