

SZSAR-TRF-01-A01 Rev. A/0 May15.2023

Report No.: SZCR240400123701

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SAR TEST REPORT

SZCR2404001237AT **Application No.:**

Applicant: VINEAST TRADING AND PRODUCTION JOINT STOCK COMPANY

Dinh Vu Cat Hai Economic Zone, Cat Hai Island Cat Hai Town, Cat Hai **Address of Applicant:**

District, Hai Phong City, Vietnam

Manufacturer: VINEAST TRADING AND PRODUCTION JOINT STOCK COMPANY

Dinh Vu - Cat Hai Economic Zone, Cat Hai Island, Cat Hai Town, Cat Hai Address of Manufacturer:

District, Hai Phong City, Vietnam

Equipment Under Test (EUT):

Product Name: Smart Module Unit

Model No.(EUT): VF-EB23U Trade mark: **VINFAST**

FCC ID: 2A6HEVF-EB23U FCC 47CFR §2.1093 Standard(s):

Date of Receipt: 2024-05-08

2024-05-11 to 2024-6-03 **Date of Test:**

2024-06-04 Date of Issue:

Test Result: Pass*

Keny. Ku

EMC Laboratory Manager



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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Revision Record			
Version Description Date Remark			
00	Original	2024-06-04	1

Authorized for issue by:		
	Roman Pan	
	Roman Pan/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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TEST SUMMARY

Test Summary		
Eragueney Bond	Max Reported SAR1g(W/kg)	
Frequency Band	Body	
WCDMA Band II	1.297	
WCDMA Band IV	1.297	
WCDMA Band V	0.137	
LTE Band 2	1.333	
LTE Band 4	1.173	
LTE Band 5	0.184	
LTE Band 12	0.353	
LTE Band 13	0.295	
LTE Band 14	0.248	
LTE Band 66	1.297	
LTE Band 71	0.523	
ВТ	0.020	
Maximum Simultaneous SAR	1.346	
SAR Limited(W/kg)	1.6	



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2 General Information

2.1 General Description of EUT

Product Name:	Smart Module Unit			
Model No.(EUT):	VF-EB23U			
Trade Mark:	VINFAST			
Product Phase:	production unit	production unit		
Device Type:	portable device			
Exposure Category:	uncontrolled enviro	onment / general population		
Hardware Version:	1.0.1			
Software Version:	1.2.9			
IMEI/SN:	008490012			
Antenna Type:	PIFA antenna			
Device Operating Configuration	ns :			
Modulation Mode:	WCDMA: QPSK,1 LTE: QPSK,16QA	M;		
	BT : GFSK, π/4DQ	PSK,8DPSK		
Device Class:	В			
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12	
HSDPA UE Category:	14	HSUPA UE Category:	6	
DC-HSDPA UE Category:				
	Band	Tx (MHz)	Rx (MHz)	
	WCDMA B2	1850-1910	1850-1910	
	WCDMA B4	1710 ~ 1755	2110 ~ 2155	
	WCDMA B5	824-849	824-849	
	LTE Band 2	1850-1910	1850-1910	
	LTE Band 4	1710-1755	1710-1755	
Frequency Bands:	LTE Band 5	824-849	824-849	
	LTE Band 12	2500-2570	2500-2570	
	LTE Band 13	777 – 787	746 – 756	
	LTE Band 14	788 – 798	758 – 768	
	LTE Band 66	1710 – 1780	2110 – 2200	
	LTE Band 71	663 – 698	617 – 652	
	ВТ	2402~2480	2402~2480	
Battery Information1#:	Model:	KM103450		
Battery Information #.	Normal Voltage:	DC 3.7V		



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Rated capacity:	1800mAh
Battery Type :	Rechargeable Li-ion Battery
Manufacturer	Dongguan kang min electronic technology co. ltd



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2.1.1 DUT Antenna Locations

Please see the Appendix D



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2.2 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radio frequency Radiation Exposure Evaluation: Portable Devices
IEEE Std C95.1 – 1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz
IEEE Std 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 447498 D04v01	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
KDB 941225 D05 v02r05	SAR EVALUATION CONSIDERATIONS FOR LTE DEVICES
KDB 865664 D01 v01r04	SAR Measurement Requirements for 100 MHz to 6 GHz
KDB 865664 D01 v01r02	RF Exposure Compliance Reporting and Documentation Considerations



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2.3 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational	
Spatial Peak SAR*	1.60 W/kg	8.00 W/kg	
(Brain*Trunk)	g	0.00 W/Ng	
Spatial Average SAR**	0.08 W/kg	0.40 W/kg	
(Whole Body)	0.00 W/kg		
Spatial Peak SAR***	4.00 W/kg	20.00 \\///.~	
(Hands/Feet/Ankle/Wrist)	4.00 W/kg	20.00 W/kg	

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.)



^{*} 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

^{**} The Spatial Average value of the SAR averaged over the whole body.

^{***} 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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2.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

2.5 Test Facility

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

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



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3 Laboratory Environment

Laboratory Livinoriti		
Temperature	Min. = 18°C, Max. = 25 °C	
Relative humidity	Min. = 30%, Max. = 70%	
Ground system resistance	< 0.5 Ω	
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.		



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4 SAR Measurements System Configuration

4.1 The SAR Measurement System

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

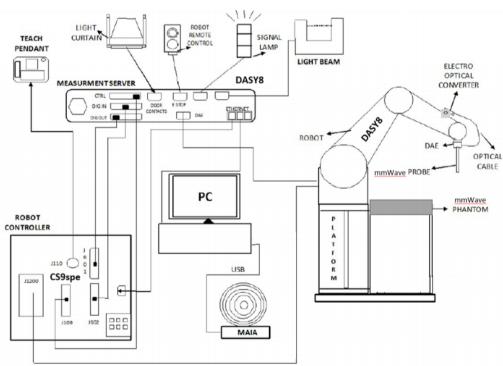
The DASY system for performing compliance tests consists of the following items:

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 system.
- DASY 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 validat the proper functioning of the system.





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4.2 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 calibration service 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	DASY52 SAR and higher, EASY4/MRI



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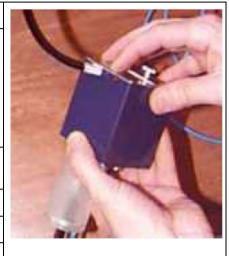
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4.3 Data Acquisition Electronics (DAE)

Model	DAE4					
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					



4.4 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 ± 0.2 mm (6 ± 0.2 mm at ear point)
Dimensions	Length: 1000 mm
(incl. Wooden Support)	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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4.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue 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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4.6 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 ε =3 and loss tangent δ =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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4.7 Measurement procedure

4.7.1 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 30mm*30mm*30mm (fine resolution volume scan, zoom scan) was assessed by measuring 5x5x7 points (≤2GHz) and 7x7x7 points (≥2GHz). 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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		1			
		≤ 3 GHz	> 3 GHz		
	•	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$		
_	_	30° ± 1°	20° ± 1°		
		≤2 GHz: ≤15 mm 2 – 3 GHz: ≤12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm		
atial resolt	ntion: Δx_{Area} , Δy_{Area}	measurement plane orientation, is smaller than the about 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. ≤ 2 GHz: ≤ 8 mm 3 - 4 GHz: ≤ 5 mm			
patial reso	lution: Δx_{Zoom} , Δy_{Zoom}	≤ 2 GHz: ≤ 8 mm 3 – 4 GHz: ≤ 5 mm*			
uniform (grid: Δz _{Zoom} (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm		
graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm		
grid Δz _{Zoom} (n>1):		$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$			
m zoom scan x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm		
	patial resolution graded grid	graded grid 1st two points closest to phantom surface $\Delta z_{Zoom}(n>1):$ between subsequent points	The closest measurement point obe sensors) to phantom surface from probe axis to phantom easurement location		

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details

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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When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz. 3 GHz to 4 GHz and 4 GHz to 6 GHz.



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4.7.2 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 ".DAE3". 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/q], [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.

4.7.3 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 f

- 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:

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

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



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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:

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

H-field probes:

$$H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2)/f$$

Vi = compensated signal of channel i

Normi = sensor sensitivity of channel I (i = x, y, z)

[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.

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

With 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.

$$P_{pwe} = E_{tot}^2 \frac{2}{3770} P_{pwe} = H_{tot}^2 \cdot 37.7$$

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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SAR measurement variability and uncertainty 5.1 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 ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 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.



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5.2 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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Description of Test Position 6

6.1 The Body Test Position

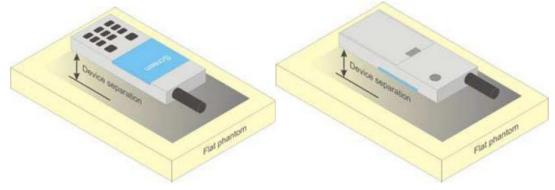
6.1.1 Body-worn accessory exposure conditions

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 D04 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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SAR System Verification Procedure

7.1 Tissue Simulate Liquid

7.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients		<u>'</u>			Frequ (MI	uency Hz)			<u>, </u>	
(% by weight)	450		835		9	15	19	00	2450	
Tissue Type	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body
Water	38.56	51.16	41.45	52.4	41.05	56.0	54.9	40.4	62.7	73.2
Salt (NaCl)	3.95	1.49	1.45	1.4	1.35	0.76	0.18	0.5	0.5	0.04
Sugar	56.32	46.78	56.0	45.0	56.5	41.76	0.0	58.0	0.0	0.0
HEC	0.98	0.52	1.0	1.0	1.0	1.21	0.0	1.0	0.0	0.0
Bactericide	0.19	0.05	0.1	0.1	0.1	0.27	0.0	0.1	0.0	0.0
Triton X-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.8	0.0
DGBE	0.0	0.0	0.0	0.0	0.0	0.0	44.92	0.0	0.0	26.7
Dielectric Constant	43.42	58.0	42.54	56.1	42.0	56.8	39.9	54.0	39.8	52.5
Conductivity (S/m)	0.85	0.83	0.91	0.95	1.0	1.07	1.42	1.45	1.88	1.78

HSL5GHz is composed of the following ingredients:

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

MSL5GHz is composed of the following ingredients:

Water: 64-78% Mineral oil: 11-18% Emulsifiers: 9-15% Sodium salt: 2-3%



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7.1.2 Test Liquids Confirmation

Simulated tissue liquid parameter confirmation

The dielectric parameters were checked prior to assessment using the SPEAG DAK3.5 dielectric probe kit. The dielectric parameters measured are reported in each correspondent section.

IEEE SCC-34/SC-2 P1528 recommended tissue dielectric parameters

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations and extrapolated according to the head parameters specified in P1528

Target Frequency	He	ad	Во	ody	
(MHz)	εr	σ (S/m)	εr	σ (S/m)	
150	52.3	0.76	61.9	0.80	
300	45.3	0.87	58.2	0.92	
450	43.5	0.87	56.7	0.94	
835	41.5	0.90	55.2	0.97	
900	41.5	0.97	55.0	1.05	
915	41.5	0.98	55.0	1.06	
1450	40.5	1.20	54.0	1.30	
1610	40.3	1.29	53.8	1.40	
1800-2000	40.0	1.40	53.3	1.52	
2450	39.2	1.80	52.7	1.95	
3000	38.5	2.40	52.0	2.73	
5800	35.3	5.27	48.2	6.00	

 $(\varepsilon_r = \text{relative permittivity}, \sigma = \text{conductivity and } \rho = 1000 \text{ kg/m}^3)$



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7.1.3 Measurement for Tissue Simulate Liquid

The dielectric properties for this Tissue Simulate Liquids were measured by using the SPEAG DAK3.5 dielectric probe kit in conjunction with Agilent Network Analyzer (300 KHz-8500 MHz). The Conductivity (σ) and Permittivity (ρ) 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.

	Measurement for Tissue Simulate Liquid													
Tissue	Measured Frequency (MHz)		d Tissue	Target Tis	ssue (±5%)	Devia (Within		Liquid Temp.	Test					
Туре		ε _r	σ(S/m)	٤r	σ(S/m)	ε _r	σ(S/m)	(℃)	Date					
750 Head	750	43.900	0.885	41.90	0.89	4.77%	-0.56%	22.3	2025/5/18					
835 Head	835	42.800	0.919	41.50	0.90	3.13%	2.11%	22.2	2024/5/17					
1750 Head	1750	41.900	1.340	40.10	1.37	4.49%	-2.19%	22.2	2024/5/16					
1900 Head	1900	41.700	1.440	40.00	1.40	4.25%	2.86%	22.0	2024/5/15					
2450 Head	2450	41.000	1.820	39.20	1.80	4.59%	1.11%	22.1	2024/5/22					



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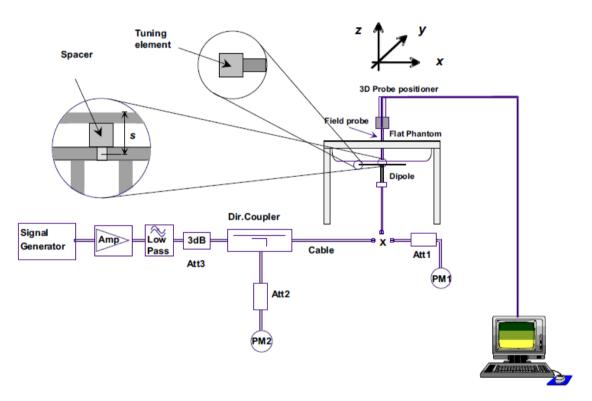
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7.2 SAR System Check

The microwave circuit arrangement for system check is sketched in bellow figure. 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. 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 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-3. the microwave circuit arrangement used for SAR system verification



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7.2.1 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 5Ω 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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7.2.2 Summary System Check Result(s)

	SAR System Validation Result(s)												
Validation Kit				SAR	SAR	(normalized	Target SAR (normalized to 1W)	LIEVISION		Liquid Temp.	Test Date		
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg)	10- g(W/kg)	(℃)			
D750V3	Head	2.15	1.42	8.60	5.68	8.37	5.53	2.75%	2.71%	22.3	2025/5/18		
D835V2	Head	2.43	1.60	9.72	6.40	9.53	6.29	1.99%	1.75%	22.2	2024/5/17		
D1750V2	Head	9.44	4.98	37.76	19.92	36.60	19.30	3.17%	3.21%	22.2	2024/5/16		
D1900V2	Head	9.98	5.32	39.92	21.28	39.50	20.60	1.06%	3.30%	22.0	2024/5/15		
D2450V2	Head	13.30	6.28	53.20	25.12	52.20	24.30	1.92%	3.37%	22.1	2024/5/22		

7.2.3 Detailed System Check Results

Please see the Appendix A



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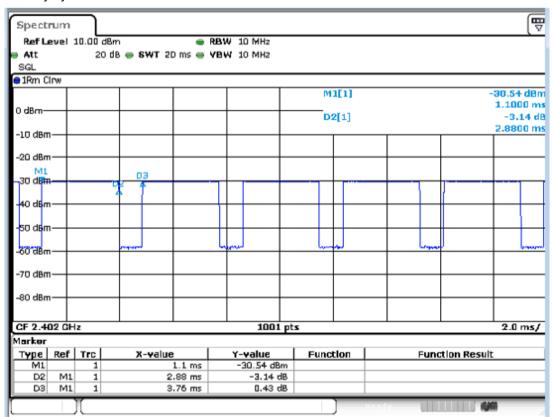
8 Test Configuration

8.1 BluetoothTest Configuration

For the Bluetooth SAR tests, a communication link is set up with the test mode software for BT mode test. Bluetooth USES frequency hopping technology to divide the transmitted data into packets and transmit the packets respectively through 79 designated Bluetooth channels, 1MHz Bandwidth, frequency hops at 1600 hops/second per the Bluetooth standard. The Radio Frequency Channel Number (RFCN) is allocated to 0, 39 and 78 respectively in the case of 2402~2480 MHz during the test at each test frequency channel, the EUT is operated at the RF continuous emission mode.

8.1.1 Duty cycle

BT duty cycle: 5.76%





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8.1.2 LTE Test Configuration

Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR. The R&S CMW500 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:

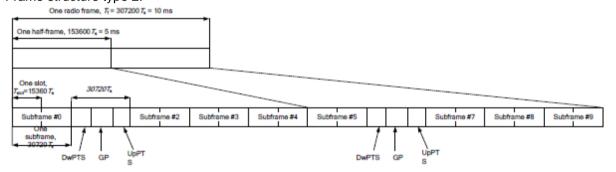


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

	Norm	nal cyclic prefix in	downlink	Extended cyclic prefix in downlink				
Special subframe	DwPTS	Up	PTS	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							
2	21952.Ts	2192.Ts	2560.Ts	23040.Ts	2192.Ts	2560.Ts		
3	24144.Ts	2.020	2000.10	25600.Ts				
4	26336.Ts			7680.Ts				
5	6592.Ts			20480.Ts				
6	19760.Ts			23040.Ts	4384.Ts	5120.Ts		
7	21952.Ts	4384.Ts	5120.Ts	25600.Ts				
8	24144.Ts]	5.23110	-	-	-		
9	13168.Ts			-	-	-		



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Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink	Downlink-to-				Sı	ubframe	e numb	er			
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 U1/10ms

. - a.a.	bulated Buty Gyole-[Extended Gyollo Prenx III apinitik x (13) x # Gr G 1 # Gr G 1 Tollis												
Do	Jplink- ownlink onfigurat	Downlink-to- Uplink Switch- point Periodicity		Subframe Number								Calculated Duty Cycle (%)	
	ion	point i chodicity	0	1	2	3	4	5	6	7	8	9	Cycle (70)
	0	5 ms	D	S	U	U	U	D	S	U	U	U	63.33
	1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
	2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
	3	10 ms	D	S	U	U	J	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

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 _{RB})	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

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



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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 measured SAR is ≤ 1.0 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 measured SAR of a required test channel is > 1.80 W/kg, SAR is required for all three RB offset configurations for that required test channel.

2) QPSK with 50% RB allocation

For QPSK with 50% RB allocation, SAR is only required measure for the worst case of 1RB allocation used the highest maximum output power.

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 measured SAR for 1 RB and 50% RB allocation in 1) and 2) are \leq 1.0 W/kg. Otherwise, SAR is measured for the highest output power channel and if the measured SAR is > 1.80 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 measured SAR for the QPSK configuration is > 1.80 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 $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the measured SAR of a configuration for the largest channel bandwidth is > 1.80 W/kg.



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Measurement RF Conducted Power

9.1 Conducted Power Of Bluebooth

BT			Average Conducted	Tungun
Modulation	Channel	Frequency(MHz)	Average Conducted Power(dBm)	Tune up (dBm)
GFSK	0	2402	6.98	7
	39	2441	6.52	7
	78	2480	6.85	7
π/4DQPSK	0	2402	8.44	9
	39	2441	8	9
	78	2480	8.33	9
8DPSK	0	2402	8.65	9
	39	2441	8.22	9
	78	2480	8.55	9



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9.2 Conducted Power Of WCDMA

9.2 Conducted Fower Of WCDMA											
	WCDMA	A Band II									
	Average Conduc	ted Powe	er(dBm)								
Channel		9262	9400	9538	Tune up						
WCDMA	12.2kbps RMC	23.17	23.22	23.09	23.5						
	Subtest 1	22.13	22.03	21.96	22.5						
HSDPA	Subtest 2	22.12	22.01	21.94	22.5						
ПОДРА	Subtest 3	21.61	21.46	21.43	22.5						
	Subtest 4	21.6	21.57	21.46	22.5						
	Subtest 1	22.19	22.05	21.98	22.5						
	Subtest 2	21.59	21.4	21.4	22.5						
HSUPA	Subtest 3	22.05	21.88	21.89	22.5						
	Subtest 4	21.51	21.37	21.37	22.5						
	Subtest 5	22.12	22.03	21.95	22.5						
	Subtest 1	22.51	22.37	22.36	22.5						
DC-HSDPA	Subtest 2	22.5	22.36	22.35	22.5						
DC-HSDPA	Subtest 3	22.08	21.85	21.86	22.5						
	Subtest 4	22.07	21.84	21.85	22.5						
HSPA+	16QAM	20.08	20.02	20.01	21						

WCDMA Band IV										
Average Conducted Power(dBm)										
Channel		1312	1412	1513	Tune up					
	12.2kbps RMC	23.31	23.34	23.25	23.5					
	Subtest 1	22.36	22.16	22.19	23					
HSDPA	Subtest 2	22.44	22.14	22.26	23					
ПОДРА	Subtest 3	21.83	21.64	21.78	23					
	Subtest 4	21.92	21.69	21.76	23					
	Subtest 1	22.13	22.15	22.07	22.5					
	Subtest 2	21.8	21.73	21.63	22.5					
HSUPA	Subtest 3	22.27	22.21	22.12	22.5					
	Subtest 4	22.37	22.13	22.16	22.5					
	Subtest 5	22.44	22.18	22.19	22.5					
	Subtest 1	22.73	22.7	22.82	23					
DC-HSDPA	Subtest 2	22.72	22.69	22.58	23					
DC-HSDPA	Subtest 3	22.3	22.18	22.09	23					
	Subtest 4	22.29	22.17	22.34	23					
HSPA+	16QAM	20.25	20.14	20.28	21					



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	WCDMA	Band V								
Average Conducted Power(dBm)										
CI	nannel	4132	4182	4233	Tune up					
WCDMA	12.2kbps RMC	23.01	23	22.99	23.5					
	Subtest 1	22.14	22.18	22.16	22.5					
HSDPA	Subtest 2	22.2	22.21	22.15	22.5					
ПОДРА	Subtest 3	21.64	21.6	21.66	22					
	Subtest 4	21.61	21.59	21.65	22					
	Subtest 1	21.39	21.38	21.37	22					
	Subtest 2	19.38	19.37	19.36	20					
HSUPA	Subtest 3	20.36	20.36	20.35	21					
	Subtest 4	19.35	19.35	19.34	20					
	Subtest 5	22.2 22.21 22.1 21.64 21.6 21.6 21.61 21.59 21.6 21.39 21.38 21.3 19.38 19.37 19.3 20.36 20.36 20.3 19.35 19.35 19.3 22.12 22.14 22.1 22.35 22.36 22.3 21.92 21.84 21.84 21.84 21.84 21.8	22.13	22.5						
	Subtest 1	22.35	22.36	22.33	22.5					
DC HCDDA	Subtest 2	22.34	22.35	22.32	22.5					
DC-HSDPA	Subtest 3	21.92	21.84	21.83	22					
	Subtest 4	21.91	21.83	21.82	22					
HSPA+	16QAM	21.17	21.01	21.16	22					



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9.3 Conducted Power Of LTE

	LTE Ban			Conducted Power(dBm)				
	I			Channel		` ′		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
		1	0	18607	18900	19193	0.4	
		1	0	23.37	23.41	23.69	24	
		1	2	23.41	23.79	23.69	24	
	0.0014	1	5	23.33	23.26	23.61	24	
	QPSK	3	0	23.35	23.29	23.12	24	
		3	2	23.18	23.09	23.21	24	
		3	3	23.37	23.26	22.9	24	
1.4MHz		6	0	22.23	22.49	22.07	23	
		1	0	22.36	22.91	22.68	23	
	1	2	22.41	22.94	23	23		
		1	5	22.2	22.95	23.02	23	
	16QAM	3	0	22.33	22.19	22.16	23	
		3	2	22.42	22.16	22.07	23	
		3	3	22.31	22.29	22.06	23	
		6	0	21.36	21.29	21.3	22	
Bandwidth	n Modulation	RB size	RB offset	Channel	Channel	Channel	Tung up	
Danuwium		KD SIZE	KD 011561	18615	18900	19185	Tune up	
		1	0	23.39	23.45	23.72	24	
	QPSK	1	7	23.44	23.84	23.73	24	
		1	14	23.36	23.31	23.65	24	
		8	0	22.45	22.41	22.25	23	
		8	4	22.3	22.19	22.33	23	
		8	7	22.47	22.37	22	23	
2841-		15	0	22.26	22.53	22.1	23	
3MHz		1	0	22.39	22.93	22.71	23	
		1	7	22.44	22.99	23.04	23	
		1	14	22.22	22.99	23.05	23	
	16QAM	8	0	21.44	24.32	21.28	22	
		8	4	21.53	21.29	21.19	22	
		8	7	21.41	21.41	21.19	22	
		15	0	21.39	21.33	21.33	22	
5				Channel	Channel	Channel		
Bandwidth	Modulation	RB size	RB offset	18625	18900	19175	Tune up	
		1	0	23.36	23.43	23.68	24	
5MHz	QPSK	1	13	23.42	23.8	23.7	24	
		1	24	23.33	23.26	23.61	24	



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		12	0	22.42	22.36	22.21	23
		12	6	22.28	22.15	22.28	23
		12	13	22.45	22.35	21.96	23
		25	0	22.24	22.52	22.08	23
		1	0	22.36	22.89	22.68	23
		1	13	22.41	22.97	23.01	23
		1	24	22.19	22.97	23.01	23
	16QAM	12	0	21.42	21.28	21.25	22
		12	6	21.5	21.24	21.15	22
		12	13	21.38	21.36	21.15	22
		25	0	21.37	21.29	21.28	22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawiani	iviodulation	KD SIZE	KD Ollset	18650	18900	19150	Turie up
		1	0	23.38	23.44	23.71	24
		1	25	23.45	23.85	23.74	24
	QPSK	1	49	23.35	23.3	23.64	24
		25	0	22.45	22.41	22.25	23
		25	13	22.31	22.2	22.32	23
		25	25	22.47	22.39	22.01	23
408411-		50	0	22.32	22.54	22.12	23
10MHz		1	0	22.38	22.92	22.7	23
		1	25	22.44	23.01	23.04	23
	16QAM	1	49	22.22	22.99	23.04	23
		25	0	21.45	21.33	21.29	22
		25	13	21.52	21.28	21.18	22
		25	25	21.41	21.41	21.19	22
		50	0	21.4	21.34	21.32	22
Donalusialth	Modulation	DD size	DD offeet	Channel	Channel	Channel	Tungun
Bandwidth	Modulation	RB size	RB offset	18675	18900	19125	Tune up
		1	0	23.37	23.4	23.69	24
		1	38	23.43	23.84	23.71	24
		1	74	23.32	23.25	23.6	24
	QPSK	36	0	22.43	22.37	22.22	23
		36	18	22.28	22.15	22.28	23
		36	39	22.44	22.36	21.97	23
15MHz		75	0	22.3	22.5	22.07	23
		1	0	22.33	22.9	22.68	23
		1	38	22.42	22.98	23.02	23
	16QAM	1	74	22.19	22.95	23.01	23
	TOWAIVI	36	0	21.42	21.31	21.26	22
		36	18	21.49	21.23	21.14	22
		36	39	21.39	21.37	21.16	22



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		75	0	21.37	21.29	21.28	22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwium	iviodulation	KD SIZE	KD Ollset	18700	18900	19100	rune up
		1	0	23.34	23.36	23.66	24
		1	50	23.76	23.8	23.69	24
		1	99	23.59	23.24	23.57	24
	QPSK	50	0	22.4	22.32	22.18	23
		50	25	22.26	22.11	22.25	23
		50	50	22.41	22.31	21.93	23
20MHz		100	0	22.27	22.45	22.03	23
ZUIVITZ		1	0	22.31	22.86	22.63	23
		1	50	22.38	22.96	22.98	23
		1	99	22.17	22.92	22.99	23
	16QAM	50	0	21.39	21.27	21.23	22
		50	25	21.46	21.21	21.11	22
		50	50	21.36	21.32	21.12	22
		100	0	21.35	21.25	21.25	22

	LTE Ban	d 4		Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun	
Bandwidth	iviodulation	RB SIZE	KD 0118et	19957	20175	20393	Tune up	
		1	0	23.55	23.2	23.42	24	
		1	2	23.44	23.53	23.46	24	
		1	5	23.2	23.54	23.68	24	
	QPSK	3	0	23.32	23.22	23.55	24	
		3	2	23.28	23.33	23.4	24	
		3	3	23.31	23.42	23.39	24	
1.4MHz		6	0	22.3	22.4	22.64	23	
1.4111172		1	0	22.45	22.25	23.27	23	
	16QAM	1	2	22.52	22.79	23.15	23	
		1	5	22.38	22.98	23.37	23	
		3	0	22.23	22.32	22.43	23	
		3	2	22.32	22.39	22.26	23	
		3	3	22.39	22.47	22.47	23	
		6	0	21.34	21.48	21.68	22	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tung up	
Danuwium	iviodulation	ND SIZE	KB onset	19965	20175	20385	Tune up	
		1	0	23.57	23.24	23.45	24	
3MHz	QPSK	1	7	23.47	23.58	23.5	24	
SIVITIZ	QF3N	1	14	23.23	23.59	23.72	24	
		8	0	22.42	22.34	22.68	23	



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	1	8	4	22.4	22.43	22.52	23
		8	7	22.41	22.53	22.49	23
		15	0	22.33	22.44	22.67	23
		1	0	22.48	22.27	23.3	23
		1	7	22.55	22.84	23.19	23
		1	14	22.4	23.02	23.4	23
	16QAM	8	0	21.34	21.45	21.55	22
		8	4	21.43	21.52	21.38	22
		8	7	21.49	21.59	21.6	22
		15	0	21.37	21.52	21.71	22
Dan duri dila	Modulation	DD sins	DD offeet	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	19975	20175	20375	Tune up
		1	0	23.54	23.22	23.41	24
		1	13	23.45	23.54	23.47	24
		1	24	23.2	23.54	23.68	24
	QPSK	12	0	22.39	22.29	22.64	23
		12	6	22.38	22.39	22.47	23
		12	13	22.39	22.51	22.45	23
5MHz		25	0	22.31	22.43	22.65	23
SIVITZ		1	0	22.45	22.23	23.27	23
		1	13	22.52	22.82	23.16	23
		1	24	22.37	23	23.36	23
	16QAM	12	0	21.32	21.41	21.52	22
		12	6	21.4	21.47	21.34	22
		12	13	21.46	21.54	21.56	22
		25	0	21.35	21.48	21.66	22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawiatii	Woddiation	ND 3126	IND Offset	20000	20175	20350	Turie up
		1	0	23.56	23.23	23.44	24
		1	25	23.48	23.59	23.51	24
		1	49	23.22	23.58	23.71	24
	QPSK	25	0	22.42	22.34	22.68	23
		25	13	22.41	22.44	22.51	23
		25	25	22.41	22.55	22.5	23
10MHz		50	0	22.39	22.45	22.69	23
10141112		1	0	22.47	22.26	23.29	23
		1	25	22.55	22.86	23.19	23
		1	49	22.4	23.02	23.39	23
	16QAM	25	0	21.35	21.46	21.56	22
		25	13	21.42	21.51	21.37	22
		25	25	21.49	21.59	21.6	22
		50	0	21.38	21.53	21.7	22



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawiatii	Modulation	ND SIZE	ND Oliset	20025	20175	20325	Turie up
		1	0	23.55	23.19	23.42	24
		1	38	23.46	23.58	23.48	24
		1	74	23.19	23.53	23.67	24
	QPSK	36	0	22.4	22.3	22.65	23
		36	18	22.38	22.39	22.47	23
		36	39	22.38	22.52	22.46	23
15MHz		75	0	22.37	22.41	22.64	23
ISIVINZ		1	0	22.42	22.24	23.27	23
		1	38	22.53	22.83	23.17	23
		1	74	22.37	22.98	23.36	23
	16QAM	36	0	21.32	21.44	21.53	22
		36	18	21.39	21.46	21.33	22
		36	39	21.47	21.55	21.57	22
		75	0	21.35	21.48	21.66	22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Dandwidth	Modulation	ND SIZE		20050	20175	20300	Turie up
		1	0	23.52	23.15	23.39	24
		1	50	23.45	23.54	23.46	24
		1	99	23.17	23.52	23.64	24
	QPSK	50	0	22.37	22.25	22.61	23
		50	25	22.36	22.35	22.44	23
		50	50	22.35	22.47	22.42	23
20MHz		100	0	22.34	22 36	22.6	23
ZUIVITIZ		1	0	22.4	22.2	23.22	23
		1	50	22.49	22.81	23.13	23
		1	99	22.35	22.95	23.34	23
	16QAM	50	0	21.29	21.4	21.5	22
		50	25	21.36	21.44	21.3	22
		50	50	21.44	21.5	21.53	22
		100	0	21.33	21.44	21.63	22

	LTE Ban			Conducted	Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
			KD Ollset	20407	20525	20643	Tune up
		1	0	22.98	23.11	23.15	24
1.4MHz	QPSK	1	2	23.07	23.44	23.25	24
		1	5	23.09	23.19	23.17	24



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		3	0	23	23.31	23.15	24
		3	2	23.01	23.26	22.94	24
		3	3	23.14	23.05	23.22	24
		6	0	22.11	22.13	22.14	23
		1	0	22	21.77	21.82	23
		1	2	21.69	21.74	21.69	23
		1	5	21.88	21.72	21.65	23
	16QAM	3	0	22.07	22.31	22.06	23
		3	2	22	22.08	21.92	23
		3	3	22.2	22.22	21.86	23
		6	0	20.91	23.03	20.86	22
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20415	20525	20635	Tune up
		1	0	23.05	23.13	23.24	24
		1	7	22.94	23.46	23.15	24
		1	14	23.18	23.13	23.15	24
	QPSK	8	0	22.08	22.17	22.13	23
	Q. O.	8	4	21.98	22.15	22.04	23
		8	7	22.06	22.06	22.06	23
		15	0	22.06	22.14	22.08	23
3MHz		1	0	21.84	21.65	21.78	23
		1	7	21.79	21.91	21.87	23
	16QAM	1	14	21.91	21.73	21.68	23
		8	0	20.95	21.28	21.15	22
		8	4	20.93	21.07	20.87	22
		8	7	21.17	21.27	20.88	22
		15	0	20.98	23.06	20.98	22
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20425	20525	20625	Tune up
		1	0	22.95	23.01	23.32	24
		1	13	23.01	23.52	23.25	24
		1	24	23.16	23.18	23.23	24
	QPSK	12	0	22.14	22.26	22.06	23
		12	6	21.91	22.29	21.98	23
		12	13	22.12	22.14	22.08	23
5MHz		25	0	21.96	22.15	22.19	23
		1	0	21.94	21.71	21.75	23
		1	13	21.8	21.77	21.86	23
		1	24	21.89	21.76	21.76	23
	16QAM	12	0	21.03	21.29	21.12	22
		12	6	21.03	21.01	20.98	22
		12	13	21.23	21.17	20.93	22



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		25	0	20.81	23.07	20.99	22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
Danawiath	iviodulation	KD SIZE	KD Ollset	20450	20525	20600	Tune up
		1	0	23.13	23.16	23.32	24
		1	25	23.09	23.61	23.35	24
		1	49	23.2	23.23	23.28	24
	QPSK	25	0	22.17	22.31	22.23	23
		25	13	22.07	22.33	22.14	23
		25	25	22.18	22.22	22.22	23
10MHz		50	0	22.16	22.27	22.21	23
TUIVITZ		1	0	22.01	21.85	21.94	23
		1	25	21.85	21.94	21.88	23
		1	49	21.92	21.82	21.83	23
	16QAM	25	0	21.13	21.37	21.21	22
		25	13	21.08	21.2	21.07	22
		25	25	21.27	21.28	21.01	22
		50	0	21	23.14	21.02	22

	LTE FDD Ba	nd 12			Conducted I	Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel 23017	Channel Channel 23095 23173		Tune up
		1	0	23.63	23.64	23.61	24
		1	2	23.67	23.57	23.69	24
QP 1.4 MHz		1	5	23.61	23.5	23.7	24
	QPSK	3	0	23.5	23.54	23.63	24
		3	2	23.45	23.5	23.54	24
		3	3	23.66	23.62	23.63	24
		6	0	22.61	22.57	22.65	23
		1	0	22.95	22.18	22.96	23
		1	2	22.94	22.55	23.2	23
	16QAM	1	5	22.76	22.36	22.86	23
		3	0	22.58	22.6	22.74	23
		3	2	22.52	22.5	22.51	23
		3	3	22.52	22.58	22.46	23
		6	0	21.71	21.63	21.84	22
Bandwidth	Modulation	RB	RB	Channel	Channel	Channel	Tune up
Danawidin	Woddiation	size	offset	23025	23095	23165	Turie up
		1	0	23.65	23.68	23.64	24
3MHz	QPSK	1	7	23.7	23.62	23.73	24
31411 12	Qi Six	1	14	23.64	23.55	23.74	24
		8	0	22.6	22.66	22.76	23



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		8	4	22.57	22.6	22.66	23
		8	7	22.76	22.73	22.73	23
		15	0	22.64	22.61	22.68	23
		1	0	22.98	22.2	22.99	23
		1	7	22.97	22.6	23.24	23
		1	14	22.78	22.4	22.89	23
	16QAM	8	0	21.69	21.73	21.86	22
		8	4	21.63	21.63	21.63	22
		8	7	21.62	21.7	21.59	22
		15	0	21.74	21.67	21.87	22
		RB	RB	Channel	Channel	Channel	
Bandwidth	Modulation	size	offset	23035	23095	23155	Tune up
		1	0	23.63	23.63	23.61	24
		1	13	23.69	23.62	23.71	24
		1	24	23.6	23.49	23.69	24
	QPSK	12	0	22.58	22.62	22.73	23
	·	12	6	22.55	22.56	22.61	23
		12	13	22.73	22.72	22.7	23
		25	0	22.68	22.58	22.65	23
5MHz		1	0	22.92	22.17	22.96	23
		1	13	22.95	22.59	23.22	23
		1	24	22.75	22.36	22.85	23
	16QAM	12	0	21.67	21.72	21.84	22
	·	12	6	21.59	21.57	21.58	22
		12	13	21.6	21.66	21.56	22
		25	0	21.72	21.63	21.82	22
D 1 141	Maril Indian	RB	RB	Channel	Channel	Channel	T
Bandwidth	Modulation	size	offset	23060	23095	23130	Tune up
		1	0	23.6	23.59	23.58	24
		1	25	23.68	23.58	23.69	24
		1	49	23.58	23.48	23.66	24
	QPSK	25	0	22.55	22.57	22.69	23
		25	13	22.53	22.52	22.58	23
		25	25	22.7	22.67	22.66	23
408411-		50	0	22.65	22.53	22.61	23
10MHz		1	0	22.9	22.13	22.91	23
		1	25	22.91	22.57	23.18	23
		1	49	22.73	22.33	22.83	23
	16QAM	25	0	21.64	21.68	21.81	22
		25	13	21.56	21.55	21.55	22
		25	25	21.57	21.61	21.52	22
		50	0	21.7	21.59	21.79	22



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	LTE FDD I	Band 13			Conducted I	Power(dBm)	
Dan duri déla	Madulation	DD ei=e	DD offeet	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	23205	23230	23255	Tune up
		1	0	23.72	23.63	23.78	24
		1	13	23.79	23.68	23.77	24
		1	24	23.58	23.69	23.65	24
	QPSK	12	0	22.87	22.77	22.82	23
		12	6	22.85	22.8	22.86	23
		12	13	22.75	22.82	22.83	23
5MHz		25	0	22.81	22.74	22.8	23
SIVITIZ		1	0	23.06	22.41	22.6	23
		1	13	23.14	22.45	22.35	23
		1	24	23.03	22.16	22.43	23
	16QAM	12	0	21.5	21.52	21.68	22
		12	6	21.63	21.75	21.65	22
		12	13	21.76	21.6	21.57	22
		25	0	21.74	21.96	21.62	22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwium	Modulation	ND SIZE	KD Ollset	/	23230	/	Turie up
		1	0	/	23.76	/	24
		1	25	/	23.85	/	24
		1	49	/	23.71	/	24
	QPSK	25	0	/	22.87	/	23
		25	13	/	22.79	/	23
		25	25	/	22.88	/	23
10MHz		50	0	/	22.74	/	23
IUIVITZ		1	0	/	23.11	/	23
		1	25	/	23.41	/	23
		1	49	/	22.94	/	23
	16QAM	25	0	/	21.78	/	22
		25	13	/	21.83	/	22
		25	25	/	21.88	/	22
		50	0	/	21.82	/	22

	LTE FDD I	Band 14			Conducted I	Power(dBm)	
Bandwidth	Modulation	RB size	DD offeet	Channel	Channel	Channel	Tungun
bandwidth	iviodulation	RD SIZE	RB offset	23305	23330	23355	Tune up
5MHz	QPSK	1	0	23.81	23.59	23.59	24



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	1	1	13	23.64	23.84	23.75	24
		1	24	23.68	23.88	23.9	24
		12	0	22.83	22.83	22.75	23
		12	6	22.77	22.8	22.71	23
		12	13	22.82	22.85	22.77	23
		25	0	22.89	22.76	22.73	23
		1	0	22.5	22.47	22.42	23
		1	13	22.38	22.61	22.54	23
		1	24	22.21	22.57	22.22	23
	16QAM	12	0	21.65	21.68	21.74	22
		12	6	21.84	21.59	21.85	22
		12	13	21.67	21.5	21.65	22
		25	0	21.77	21.73	21.69	22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
Bandwidth	Wodulation	KD Size	KD 011561	/	23330	/	Tune up
		1	0	/	23.73	/	24
		1	25	/	23.85	/	24
		1	49	/	23.53	/	24
	QPSK	25	0	/	22.84	/	23
		25	13	/	22.78	/	23
						,	00
		25	25	/	22.82	/	23
10MU-		25 50	25 0	/	22.82 22.83	/	23
10MHz				/ /		/ /	
10MHz		50	0	/ / /	22.83	/ / /	23
10MHz		50 1	0	/ / / /	22.83 22.7		23 23
10MHz	16QAM	50 1 1	0 0 25	/ / / / /	22.83 22.7 23.38	/ / / / /	23 23 23
10MHz	16QAM	50 1 1 1	0 0 25 49	/ / / / / /	22.83 22.7 23.38 22.85	/ / / / /	23 23 23 23
10MHz	16QAM	50 1 1 1 1 25	0 0 25 49 0	/ / / / / /	22.83 22.7 23.38 22.85 21.64	/ / / / / / /	23 23 23 23 23 22

	LTE Band	d 66		Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
Danawidin	Modulation	ND SIZE	IVD Ollset	131979	132322	132665	rune up	
	1.4MHz	1	0	23.42	23.57	23.56	24	
		1	2	23.3	23.76	23.57	24	
		1	5	23.37	23.64	23.45	24	
1 AMU~		3	0	23.47	23.58	23.26	24	
1.4111172		3	2	23.35	23.75	23.33	24	
		3	3	23.59	23.55	23.36	24	
		6	0	22.51	22.73	22.34	23	
	16QAM	1	0	22.84	22.38	22.2	23	



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		1	2	22.43	22.76	22.57	23
		1	5	22.57	22.42	22.22	23
		3	0	22.53	22.57	22.27	23
		3	2	22.32	22.76	22.43	23
		3	3	22.69	22.62	22.45	23
		6	0	21.65	21.84	21.45	22
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	131987	132322	132657	Tune up
		1	0	23.44	23.61	23.59	24
		1	7	23.33	23.81	23.61	24
		1	14	23.4	23.69	23.49	24
	QPSK	8	0	22.57	22.7	22.39	23
		8	4	22.47	22.85	22.45	23
		8	7	22.69	22.66	22.46	23
08411-		15	0	22.54	22.77	22.37	23
3MHz		1	0	22.87	22.4	22.23	23
		1	7	22.46	22.81	22.61	23
		1	14	22.59	22.46	22.25	23
	16QAM	8	0	21.64	21.7	21.39	22
		8	4	21.43	21.89	21.55	22
		8	7	21.79	21.74	21.58	22
		15	0	21.68	21.88	21.48	22
Don duridth	Modulation	DD size	DD offeet	Channel	Channel	Channel	Tungun
Bandwidth	Modulation	RB size	RB offset	131997	132322	132647	Tune up
		1	0	23.41	23.59	23.55	24
		1	13	23.31	23.77	23.58	24
		1	24	23.37	23.64	23.45	24
	QPSK	12	0	22.54	22.65	22.35	23
		12	6	22.45	22.81	22.4	23
		12	13	22.67	22.64	22.42	23
5MHz		25	0	22.52	22.76	22.35	23
SIVITIZ		1	0	22.84	22.36	22.2	23
		1	13	22.43	22.79	22.58	23
		1	24	22.56	22.44	22.21	23
	16QAM	12	0	21.62	21.66	21.36	22
TOQAIVI		12	6	21.4	21.84	21.51	22
		12	13	21.76	21.69	21.54	22
		25	0	21.66	21.84	21.43	22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwiuli	IVIOGUIALIOIT	LD SIZE	KB oliset	132022	132322	132622	rune up
10MHz	QPSK	1	0 25	23.43 23.34	23.6	23.58 23.62	24 24



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		1	49	23.39	23.68	23.48	24
		25	0	22.57	22.7	22.39	23
		25	13	22.48	22.86	22.44	23
		25	25	22.69	22.68	22.47	23
		50	0	22.6	22.78	22.39	23
		1	0	22.86	22.39	22.22	23
		1	25	22.46	22.83	22.61	23
		1	49	22.59	22.46	22.24	23
	16QAM	25	0	21.65	21.71	21.4	22
		25	13	21.42	21.88	21.54	22
		25	25	21.79	21.74	21.58	22
		50	0	21.69	21.89	21.47	22
Dan desidab	Madulation	DD -:	DD -#+	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	132047	132322	132597	Tune up
		1	0	23.42	23.56	23.56	24
		1	38	23.32	23.81	23.59	24
		1	74	23.36	23.63	23.44	24
	QPSK	36	0	22.55	22.66	22.36	23
		36	18	22.45	22.81	22.4	23
		36	39	22.66	22.65	22.43	23
4 EMI I -		75	0	22.58	22.74	22.34	23
15MHz		1	0	22.81	22.37	22.2	23
		1	38	22.44	22.8	22.59	23
		1	74	22.56	22.42	22.21	23
	16QAM	36	0	21.62	21.69	21.37	22
		36	18	21.39	21.83	21.5	22
		36	39	21.77	21.7	21.55	22
		75	0	21.66	21.84	21.43	22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwium	iviodulation	KD SIZE	KD Ollset	132072	132322	132572	rune up
		1	0	23.39	23.52	23.53	24
		1	50	23.31	23.77	23.57	24
		1	99	23.34	23.62	23.41	24
	QPSK	50	0	22.52	22.61	22.32	23
		50	25	22.43	22.77	22.37	23
20MHz		50	50	22.63	22.6	22.39	23
ZUMII IZ		100	0	22.55	22.69	22.3	23
		1	0	22.79	22.33	22.15	23
		1	50	22.4	22.78	22.55	23
	16QAM	1	99	22.54	22.39	22.19	23
		50	0	21.59	21.65	21.34	22
		50	25	21.36	21.81	21.47	22



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50	50	21.74	21.86	21.51	22
100	0	21.64	21.8	21.4	22

	LTE Ba	nd 71			Conducted	Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Balluwiutii	Modulation	ND SIZE	KB onset	133147	133297	133447	rune up
		1	0	23.15	23.23	22.96	24
		1	13	23.44	23.23	23.08	24
		1	24	23.25	23.06	23.07	24
	QPSK	12	0	22.15	22.33	22.29	23
		12	6	22.2	22.19	22.21	23
		12	13	22.38	22.36	22.33	23
5MHz		25	0	22.17	22.4	22.2	23
SIVITZ		1	0	22.08	22.64	22.9	23
		1	13	22.2	22.85	22.91	23
		1	24	22.22	22.43	22.78	23
	16QAM	12	0	21.29	21.23	21.07	22
		12	6	21.25	21.28	21.26	22
		12	13	21.38	21.23	21.13	22
		25	0	21.32	21.5	21.31	22
Donalis i alth	Modulation	DD circ	DD offeet	Channel	Channel	Channel	Tungun
Bandwidth	Modulation	RB size	RB offset	133172	133297	133422	Tune up
		1	0	23.17	23.24	22.99	24
		1	25	23.47	23.28	23.12	24
		1	49	23.27	23.1	23.1	24
	QPSK	25	0	22.18	22.38	22.33	23
		25	13	22.23	22.24	22.25	23
		25	25	22.4	22.4	22.38	23
10MHz		50	0	22.25	22.42	22.24	23
TOWINZ		1	0	22.1	22.67	22.92	23
		1	25	22.23	22.89	22.94	23
		1	49	22.25	22.45	22.81	23
	16QAM	25	0	21.32	21.28	21.11	22
		25	13	21.27	21.32	21.29	22
		25	25	21.41	21.28	21.17	22
		50	0	21.35	21.55	21.35	22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawiani	Wodulation	IVD SIZE	IVD OIISEL	133197	133297	133397	rune up
		1	0	23.16	23.01	22.97	24
15MHz	QPSK	1	38	23.45	23.11	23.09	24
		1	74	23.24	23.09	23.06	24



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		36	0	22.16	22.25	22.3	23
		36	18	22.2	22.21	22.21	23
		36	39	22.37	22.09	22.34	23
		75	0	22.23	22.11	22.19	23
		1	0	22.05	22.07	22.9	23
		1	38	22.21	22.09	22.92	23
		1	74	22.22	22.22	22.78	23
	16QAM	36	0	21.29	21.25	21.08	22
		36	18	21.24	21.2	21.25	22
		36	39	21.39	21.12	21.14	22
		75	0	21.32	21.11	21.31	22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
Danawiath	iviodulation	RD SIZE	RB offset	133222	133322	133372	Tune up
		1	0	23.13	23.16	22.94	24
		1	50	23.44	23.23	23.07	24
		1	99	23.22	23.04	23.03	24
	QPSK	50	0	22.13	22.29	22.26	23
		50	25	22.18	22.15	22.18	23
		50	50	22.34	22.32	22.3	23
20MHz		100	0	22.2	22.33	22.15	23
ZUIVITZ		1	0	22.03	22.61	22.85	23
		1	50	22.17	22.84	22.88	23
		1	99	22.2	22.38	22.76	23
	16QAM	50	0	21.26	21.22	21.05	22
		50	25	21.21	21.25	21.22	22
		50	50	21.36	21.19	21.1	22
		100	0	21.3	21.46	21.28	22



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9.4 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph Results refer to Appendix B
- 2) Per FCC KDB Publication 447498 D04, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).
- 3) "*" is repeated measurement.



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9.4.1 SAR Result Of WCMDA II

	WB4 SAR Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	•	Scaled factor		Liquid Temp.(℃)	
			Во	ody Test	data(Sep	oarate 10	mm)					
Front side	RMC	9400/1880	1:1	0.404	0.223	-0.02	23.22	23.50	1.067	0.431	22.1	
Back side	RMC	9400/1880	1:1	0.507	0.295	-0.04	23.22	23.50	1.067	0.541	22.1	
Left side	RMC	9400/1880	1:1	1.150	0.646	-0.08	23.22	23.50	1.067	1.227	22.1	
Right side	RMC	9400/1880	1:1	0.005	0.002	0.03	23.22	23.50	1.067	0.005	22.1	
Top side	RMC	9400/1880	1:1	0.273	0.167	-0.07	23.22	23.50	1.067	0.291	22.1	
Bottom side	RMC	9400/1880	1:1	0.156	0.095	0.02	23.22	23.50	1.067	0.166	22.1	
Left side	RMC	9262/1852.4	1:1	1.080	0.788	-0.09	23.17	23.50	1.079	1.165	22.1	
Left side	RMC	9538/1907.6	1:1	1.020	0.759	-0.08	23.09	23.50	1.099	1.121	22.1	
Left side-Repeatd	RMC	9262/1852.4	1:1	1.010	0.768	-0.09	23.22	23.50	1.067	1.077	22.1	
Front side	RMC	9400/1880	1:1	0.404	0.223	-0.02	23.22	23.50	1.067	0.431	22.1	
Back side	RMC	9400/1880	1:1	0.507	0.295	-0.04	23.22	23.50	1.067	0.541	22.1	



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9.4.2 SAR Result Of WCMDA IV

				WB4	SAR Tes	t Record					
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	-	Scaled factor		Liquid Temp.(℃)
				Body Tes	t data(Se	parate 10	mm)				
Front side	RMC	1412/1732.4	1:1	0.453	0.261	-0.01	23.34	23.50	1.038	0.470	22.1
Back side	RMC	1412/1732.4	1:1	0.934	0.575	-0.03	23.34	23.50	1.038	0.969	22.1
Left side	RMC	1412/1732.4	1:1	1.250	0.708	-0.16	23.34	23.50	1.038	1.297	22.1
Right side	RMC	1412/1732.4	1:1	0.004	0.002	0.05	23.34	23.50	1.038	0.004	22.1
Top side	RMC	1412/1732.4	1:1	0.388	0.239	0.09	23.34	23.50	1.038	0.403	22.1
Bottom side	RMC	1412/1732.4	1:1	0.178	0.109	-0.02	23.34	23.50	1.038	0.185	22.1
Back side	RMC	1312/1712.4	1:1	1.090	0.675	0.00	23.31	23.50	1.045	1.139	22.1
Back side	RMC	1513/1752.6	1:1	0.828	0.507	0.03	23.25	23.50	1.059	0.877	22.1
Left side	RMC	1312/1712.4	1:1	1.180	0.721	-0.01	23.31	23.50	1.045	1.233	22.1
Left side	RMC	1513/1752.6	1:1	1.020	0.576	-0.03	23.25	23.50	1.059	1.080	22.1
Left side-Repeated	RMC	1412/1732.4	1:1	1.140	0.695	-0.01	23.34	23.50	1.038	1.183	22.1



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9.4.3 SAR Result Of WCMDA V

				WI	B5 SAR T	est Reco	ord				
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Body T	est data(S	Separate	10mm)				
Front side	RMC	4182/836.4	1:1	0.088	0.062	0.08	23.00	23.50	1.122	0.099	22.3
Back side	RMC	4182/836.4	1:1	0.114	0.068	0.08	23.00	23.50	1.122	0.128	22.3
Left side	RMC	4182/836.4	1:1	0.122	0.067	-0.04	23.00	23.50	1.122	0.137	22.3
Right side	RMC	4182/836.4	1:1	0.002	0.000	0.01	23.00	23.50	1.122	0.002	22.3
Top side	RMC	4182/836.4	1:1	0.027	0.019	0.06	23.00	23.50	1.122	0.030	22.3
Bottom side	RMC	4182/836.4	1:1	0.051	0.035	-0.11	23.00	23.50	1.122	0.057	22.3



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9.4.4 SAR Result Of LTE Band 2

				LTE	Band 2	SAR Test	Record					
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Body T	est data (Separate 1	I0mm 1R	RB)				
Front side	20	QPSK 1_50	18900/1880	1:1	0.373	0.207	0.06	23.80	24.00	1.047	0.391	22
Back side	20	QPSK 1_50	18900/1880	1:1	0.523	0.330	0.04	23.80	24.00	1.047	0.548	22
Left side	20	QPSK 1_50	18900/1880	1:1	1.210	0.765	0.02	23.80	24.00	1.047	1.267	22.1
Right side	20	QPSK 1_50	18900/1880	1:1	0.003	0.002	0.02	23.80	24.00	1.047	0.003	22.1
Top side	20	QPSK 1_50	18900/1880	1:1	0.379	0.227	-0.04	23.80	24.00	1.047	0.397	22.1
Bottom side	20	QPSK 1_50	18900/1880	1:1	0.063	0.039	-0.05	23.80	24.00	1.047	0.066	22.1
Left side	20	QPSK 1_50	18700/1860	1:1	1.180	0.693	-0.01	23.76	24.00	1.057	1.247	22.1
Left side	20	QPSK 1_50	19100/1900	1:1	1.330	0.725	-0.15	23.99	24.00	1.002	1.333	22.1
Left side-Repeated	20	QPSK 1_50	19100/1900	1:1	1.280	0.755	0.02	23.99	24.00	1.002	1.283	22.1
			В	ody Te	st data (Se	eparate 10	mm 50%	RB)				
Front side	20	QPSK 50_50	18700/1860	1:1	0.285	0.160	0.05	22.41	23.00	1.146	0.326	22
Back side	20	QPSK 50_50	18700/1860	1:1	0.390	0.231	0.01	22.41	23.00	1.146	0.447	22
Left side	20	QPSK 50_50	18700/1860	1:1	1.040	0.573	-0.17	22.41	23.00	1.146	1.191	22.1
Right side	20	QPSK 50_50	18700/1860	1:1	0.002	0.001	0.01	22.41	23.00	1.146	0.002	22.1
Top side	20	QPSK 50_50	18700/1860	1:1	0.302	0.182	-0.13	22.41	23.00	1.146	0.346	22.1
Bottom side	20	QPSK 50_50	18700/1860	1:1	0.045	0.027	-0.01	22.41	23.00	1.146	0.052	22.1
Left side	20	QPSK 50_0	18900/1880	1:1	1.030	0.549	-0.07	22.32	23.00	1.169	1.205	22.1
Left side	20	QPSK 50_25	19100/1900	1:1	1.010	0.535	-0.02	22.25	23.00	1.189	1.200	22.1
			Вс	dy Tes	t data (Se	parate 10	mm 100%	6RB)				
Left side	20	QPSK 100_0	18900/1880	1:1	0.978	0.553	-0.12	22.45	23.00	1.135	1.110	22.1

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	2 nd Repeated	3 rd Repeated
	(MHz)	SAIL (19)	SAR (1g)		SAR (1g)	SAR (1g)	SAR (1g)
Left side	19100/1900	1.4	1.36	1.02941176	N/A	N/A	N/A

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

- 3) 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.
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
- 5) 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. The repeated measurement results must be clearly identified in the SAR report.



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²⁾ 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).



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9.4.5 SAR Result Of LTE Band 4

				LTE E	Band 4 S	AR Test	Record					
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
			I	Body Tes	st data (S	eparate 1	0mm 1R	B)				
Front side	20	QPSK 1_99	20300/1745	1:1	0.374	0.234	0.02	23.64	24.00	1.086	0.406	22
Back side	20	QPSK 1_99	20300/1745	1:1	0.739	0.443	0.01	23.64	24.00	1.086	0.803	22
Left side	20	QPSK 1_99	20300/1745	1:1	1.080	0.578	-0.12	23.64	24.00	1.086	1.173	22.1
Right side	20	QPSK 1_99	20300/1745	1:1	0.004	0.002	0.03	23.64	24.00	1.086	0.004	22.1
Top side	20	QPSK 1_99	20300/1745	1:1	0.383	0.238	-0.04	23.64	24.00	1.086	0.416	22
Bottom side	20	QPSK 1_99	20300/1745	1:1	0.142	0.087	-0.04	23.64	24.00	1.086	0.154	22
Back side	20	QPSK 1_0	20050/1720	1:1	0.789	0.484	0.06	23.52	24.00	1.117	0.881	22
Back side	20	QPSK 1_50	20175/1732.5	1:1	0.890	0.539	-0.04	23.54	24.00	1.112	0.989	22
Left side	20	QPSK 1_0	20050/1720	1:1	1.040	0.680	-0.17	23.52	24.00	1.117	1.162	22.1
Left side	20	QPSK 1_50	20175/1732.5	1:1	1.050	0.573	-0.01	23.54	24.00	1.112	1.167	22.1
Left side-Repeated	20	QPSK 1_0	20300/1745	1:1	0.998	0.672	-0.17	23.64	24.00	1.086	1.084	22.1
			Во	ody Test	data (Sep	oarate 10	mm 50%	RB)				
Front side	20	QPSK 50_0	20300/1745	1:1	0.316	0.200	0.04	22.61	23.00	1.094	0.346	22
Back side	20	QPSK 50_0	20300/1745	1:1	0.624	0.378	0.07	22.61	23.00	1.094	0.683	22
Left side	20	QPSK 50_0	20300/1745	1:1	0.806	0.448	0.06	22.61	23.00	1.094	0.882	22.1
Right side	20	QPSK 50_0	20300/1745	1:1	0.003	0.001	0.01	22.61	23.00	1.094	0.003	22.1
Top side	20	QPSK 50_0	20300/1745	1:1	0.281	0.175	-0.08	22.61	23.00	1.094	0.307	22
Bottom side	20	QPSK 50_0	20300/1745	1:1	0.120	0.074	-0.07	22.61	23.00	1.094	0.131	22
Left side	20	QPSK 50_0	20050/1720	1:1	0.908	0.502	-0.03	22.37	23.00	1.156	1.050	22.1
Left side	20	QPSK 50_50	20175/1732.5	1:1	0.842	0.456	-0.02	22.47	23.00	1.130	0.951	22.1
		·	Во	dy Test o	data (Sep	arate 10r	nm 100%	6RB)				
Back side	20	QPSK 100_0	20300/1745	1:1	0.611	0.372	-0.14	22.60	23.00	1.096	0.670	22
Left side	20	QPSK 100_0	20300/1745	1:1	0.850	0.492	-0.15	22.60	23.00	1.096	0.932	22.1

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)	SAR (1g)
Left side	20050/1720	1.24	1.18	1.050847458	N/A	N/A	N/A

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

³⁾ 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 >



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²⁾ 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).



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1.20.

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

5) 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. The repeated measurement results must be clearly identified in the SAR report.



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9.4.6 SAR Result Of LTE Band 5

				LTE E	Band 5	SAR Te	st Rec	ord				
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor		Liquid Temp.(℃)
			Во	dy Tes	st data (Separa	te 10mr	n 1RB)				
Front side	10	QPSK 1_25	20525/836.5	1:1	0.157	0.108	0.04	23.61	24.00	1.094	0.172	22
Back side	10	QPSK 1_25	20525/836.5	1:1	0.168	0.102	0.07	23.61	24.00	1.094	0.184	22
Left side	10	QPSK 1_25	20525/836.5	1:1	0.146	0.078	0.19	23.61	24.00	1.094	0.160	22.1
Right side	10	QPSK 1_25	20525/836.5	1:1	0.002	0.001	0.03	23.61	24.00	1.094	0.002	22.1
Top side	10	QPSK 1_25	20525/836.5	1:1	0.053	0.036	0.01	23.61	24.00	1.094	0.058	22.1
Bottom side	10	QPSK 1_25	20525/836.5	1:1	0.105	0.072	-0.02	23.61	24.00	1.094	0.115	22.1
			Body	/ Test	data (S	eparate	10mm	50%RB)				
Front side	10	QPSK 25_13	20525/836.5	1:1	0.114	0.079	0.02	22.33	23.00	1.167	0.133	22
Back side	10	QPSK 25_13	20525/836.5	1:1	0.129	0.078	-0.04	22.33	23.00	1.167	0.151	22
Left side	10	QPSK 25_13	20525/836.5	1:1	0.113	0.070	-0.05	22.33	23.00	1.167	0.132	22.1
Right side	10	QPSK 25_13	20525/836.5	1:1	0.001	0.000	0.06	22.33	23.00	1.167	0.001	22.1
Top side	10	QPSK 25_13	20525/836.5	1:1	0.041	0.028	-0.15	22.33	23.00	1.167	0.048	22.1
Bottom side	10	QPSK 25_13	20525/836.5	1:1	0.079	0.054	-0.01	22.33	23.00	1.167	0.092	22.1



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9.4.7 SAR Result Of LTE Band 12

				LTE B	and 12	SAR T	est Red	cord				
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor		Liquid Temp.(℃)
			Во	dy Tes	st data (Separa	te 10mr	n 1RB)				
Front side	10	QPSK 1_25	23130/711	1:1	0.241	0.173	0.01	23.69	24.00	1.074	0.259	22
Back side	10	QPSK 1_25	23130/711	1:1	0.312	0.205	0.05	23.69	24.00	1.074	0.335	22
Left side	10	QPSK 1_25	23130/711	1:1	0.246	0.140	0.09	23.69	24.00	1.074	0.264	22.1
Right side	10	QPSK 1_25	23130/711	1:1	0.003	0.001	0.02	23.69	24.00	1.074	0.003	22.1
Top side	10	QPSK 1_25	23130/711	1:1	0.084	0.059	-0.14	23.69	24.00	1.074	0.090	22.1
Bottom side	10	QPSK 1_25	23130/711	1:1	0.124	0.086	-0.08	23.69	24.00	1.074	0.133	22.1
			Body	/ Test	data (S	eparate	10mm	50%RB)				
Front side	10	QPSK 25_25	23060/704	1:1	0.253	0.182	0.04	22.70	23.00	1.072	0.271	22
Back side	10	QPSK 25_25	23060/704	1:1	0.329	0.215	0.07	22.70	23.00	1.072	0.353	22
Left side	10	QPSK 25_25	23060/704	1:1	0.207	0.133	-0.05	22.70	23.00	1.072	0.222	22.1
Right side	10	QPSK 25_25	23060/704	1:1	0.002	0.001	0.03	22.70	23.00	1.072	0.002	22.1
Top side	10	QPSK 25_25	23060/704	1:1	0.080	0.056	0.06	22.70	23.00	1.072	0.086	22.1
Bottom side	10	QPSK 25_25	23060/704	1:1	0.121	0.084	-0.08	22.70	23.00	1.072	0.130	22.1



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9.4.8 SAR Result Of LTE Band 13

				LTE B	and 13	SAR T	est Red	cord				
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor		Liquid Temp.(℃)
			Во	dy Tes	st data (Separa	te 10mr	m 1RB)				
Front side	10	QPSK 1_25	23230/782	1:1	0.231	0.164	0.02	23.85	24.00	1.035	0.239	22
Back side	10	QPSK 1_25	23230/782	1:1	0.285	0.182	0.04	23.85	24.00	1.035	0.295	22
Left side	10	QPSK 1_25	23230/782	1:1	0.187	0.108	-0.06	23.85	24.00	1.035	0.194	22.1
Right side	10	QPSK 1_25	23230/782	1:1	0.003	0.002	0.05	23.85	24.00	1.035	0.003	22.1
Top side	10	QPSK 1_25	23230/782	1:1	0.093	0.064	0.08	23.85	24.00	1.035	0.096	22.1
Bottom side	10	QPSK 1_25	23230/782	1:1	0.098	0.067	-0.06	23.85	24.00	1.035	0.101	22.1
			Body	/ Test	data (S	eparate	10mm	50%RB)				
Front side	10	QPSK 25_25	23230/782	1:1	0.190	0.133	0.04	22.88	23.00	1.028	0.195	22
Back side	10	QPSK 25_25	23230/782	1:1	0.226	0.147	0.01	22.88	23.00	1.028	0.232	22
Left side	10	QPSK 25_25	23230/782	1:1	0.140	0.090	-0.02	22.88	23.00	1.028	0.144	22.1
Right side	10	QPSK 25_25	23230/782	1:1	0.002	0.001	0.02	22.88	23.00	1.028	0.002	22.1
Top side	10	QPSK 25_25	23230/782	1:1	0.077	0.053	0.11	22.88	23.00	1.028	0.079	22.1
Bottom side	10	QPSK 25_25	23230/782	1:1	0.079	0.054	-0.19	22.88	23.00	1.028	0.081	22.1



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9.4.9 SAR Result Of LTE Band 14

		Suit Of ETI		LTE	Band 14	SAR T	est Re	cord				
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)
			В	ody Te	est data	(Separa	ite 10mi	m 1RB)				
Front side	10	QPSK 1_25	23330/793	1:1	0.231	0.157	0.07	23.85	24.00	1.035	0.239	22
Back side	10	QPSK 1_25	23330/793	1:1	0.240	0.170	0.06	23.85	24.00	1.035	0.248	22
Left side	10	QPSK 1_25	23330/793	1:1	0.210	0.119	-0.17	23.85	24.00	1.035	0.217	22.1
Right side	10	QPSK 1_25	23330/793	1:1	0.005	0.002	0.01	23.85	24.00	1.035	0.005	22.1
Top side	10	QPSK 1_25	23330/793	1:1	0.101	0.069	-0.01	23.85	24.00	1.035	0.105	22.1
Bottom side	10	QPSK 1_25	23330/793	1:1	0.105	0.072	-0.10	23.85	24.00	1.035	0.109	22.1
			Bo	dy Tes	t data (S	Separate	10mm	50%RB)				
Front side	10	QPSK 25_0	23330/793	1:1	0.197	0.134	0.04	22.84	23.00	1.038	0.204	22
Back side	10	QPSK 25_0	23330/793	1:1	0.199	0.141	0.06	22.84	23.00	1.038	0.206	22
Left side	10	QPSK 25_0	23330/793	1:1	0.155	0.088	-0.05	22.84	23.00	1.038	0.161	22.1
Right side	10	QPSK 25_0	23330/793	1:1	0.003	0.001	0.02	22.84	23.00	1.038	0.003	22.1
Top side	10	QPSK 25_0	23330/793	1:1	0.083	0.057	-0.08	22.84	23.00	1.038	0.086	22.1
Bottom side	10	QPSK 25_0	23330/793	1:1	0.081	0.056	0.03	22.84	23.00	1.038	0.084	22.1



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9.4.10 SAR Result Of LTE Band 66

				LTE B	and 66 S	SAR Test	Record					
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)		Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Body Tes	st data (S	eparate 1	0mm 1R	RB)				
Front side	20	QPSK 1_50	132322/1745	1:1	0.411	0.247	-0.11	23.77	24.00	1.054	0.433	22.1
Back side	20	QPSK 1_50	132322/1745	1:1	0.930	0.581	-0.15	23.77	24.00	1.054	0.981	22.1
Left side	20	QPSK 1_50	132322/1745	1:1	1.230	0.683	-0.07	23.77	24.00	1.054	1.297	22.1
Right side	20	QPSK 1_50	132322/1745	1:1	0.003	0.002	0.01	23.77	24.00	1.054	0.003	22.1
Top side	20	QPSK 1_50	132322/1745	1:1	0.433	0.261	0.06	23.77	24.00	1.054	0.457	22.1
Bottom side	20	QPSK 1_50	132322/1745	1:1	0.128	0.080	-0.08	23.77	24.00	1.054	0.135	22.1
Back side	20	QPSK 1_0	132072/1720	1:1	0.729	0.439	-0.10	23.39	24.00	1.151	0.839	22.1
Back side	20	QPSK 1_50	132572/1770	1:1	0.594	0.360	-0.14	23.57	24.00	1.104	0.656	22.1
Left side	20	QPSK 1_0	132072/1720	1:1	1.120	0.740	-0.05	23.39	24.00	1.151	1.289	22.1
Left side	20	QPSK 1_50	132572/1770	1:1	1.090	0.678	-0.04	23.57	24.00	1.104	1.203	22.1
Left side-Repeated	20	QPSK 1_50	132322/1745	1:1	1.180	0.721	-0.05	23.77	24.00	1.054	1.244	22.1
			В	ody Test	data (Se _l	parate 10	mm 50%	RB)				
Front side	20	QPSK 50_25	132322/1745	1:1	0.388	0.227	0.16	22.77	23.00	1.054	0.409	22.1
Back side	20	QPSK 50_25	132322/1745	1:1	0.725	0.440	-0.15	22.77	23.00	1.054	0.764	22.1
Left side	20	QPSK 50_25	132322/1745	1:1	1.050	0.586	-0.06	22.77	23.00	1.054	1.107	22.1
Right side	20	QPSK 50_25	132322/1745	1:1	0.002	0.001	0.02	22.77	23.00	1.054	0.002	22.1
Top side	20	QPSK 50_25	132322/1745	1:1	0.347	0.210	-0.10	22.77	23.00	1.054	0.366	22.1
Bottom side	20	QPSK 50_25	132322/1745	1:1	0.098	0.061	-0.06	22.77	23.00	1.054	0.103	22.1
Left side	20	QPSK 50_50	132072/1720	1:1	0.986	0.553	-0.14	22.60	23.00	1.096	1.081	22.1
Left side	20	QPSK 50_50	132572/1770	1:1	0.808	0.450	-0.13	22.39	23.00	1.151	0.930	22.1
			Вс	dy Test	data (Sep	arate 10r	mm 100%	6RB)				
Back side	20	QPSK 100_0	132322/1745	1:1	0.497	0.312	-0.04	22.69	23.00	1.074	0.534	22
Left side	20	QPSK 100_0	132322/1745	1:1	1.040	0.601	-0.04	22.69	23.00	1.074	1.117	22

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)	SAR (1g)
Left side	132322/1745	1.23	1.18	1.042372881	N/A	N/A	N/A

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

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 >



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²⁾ 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).



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1.20.

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

5) 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. The repeated measurement results must be clearly identified in the SAR report.



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9.4.11 SAR Result Of LTE Band 71

LTE Band 71 SAR Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g		Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor		Liquid Temp.(℃)
Body Test data (Separate 10mm 1RB)												
Front side	20	QPSK 1_50	133222/673	1:1	0.344	0.243	-0.07	23.44	24.00	1.138	0.391	22.1
Back side	20	QPSK 1_50	133222/673	1:1	0.460	0.306	-0.13	23.44	24.00	1.138	0.523	22.1
Left side	20	QPSK 1_50	133222/673	1:1	0.301	0.169	-0.06	23.44	24.00	1.138	0.342	22.1
Right side	20	QPSK 1_50	133222/673	1:1	0.004	0.002	0.01	23.44	24.00	1.138	0.005	22.1
Top side	20	QPSK 1_50	133222/673	1:1	0.108	0.077	-0.14	23.44	24.00	1.138	0.123	22.1
Bottom side	20	QPSK 1_50	133222/673	1:1	0.141	0.099	-0.09	23.44	24.00	1.138	0.160	22.1
	Body Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50_50	133222/673	1:1	0.251	0.174	-0.09	22.34	23.00	1.164	0.292	22.1
Back side	20	QPSK 50_50	133222/673	1:1	0.328	0.231	-0.17	22.34	23.00	1.164	0.382	22.1
Left side	20	QPSK 50_50	133222/673	1:1	0.220	0.142	-0.02	22.34	23.00	1.164	0.256	22.1
Right side	20	QPSK 50_50	133222/673	1:1	0.002	0.001	0.05	22.34	23.00	1.164	0.002	22.1
Top side	20	QPSK 50_50	133222/673	1:1	0.085	0.060	-0.17	22.34	23.00	1.164	0.099	22.1
Bottom side	20	QPSK 50_50	133222/673	1:1	0.103	0.072	-0.10	22.34	23.00	1.164	0.120	22.1



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9.4.12 SAR Result Of BT

Bluetooth SAR Test Record ANT4												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor		Liquid Temp.(℃)
Body Test data (Separate 10mm)												
Front side	3DH5	0/2402	76.60%	1.305	0.013	0.007	-0.09	8.65	9.00	1.084	0.014	22.1
Back side	3DH5	0/2402	76.60%	1.305	0.018	0.011	0.04	8.65	9.00	1.084	0.020	22.1
Left side	3DH5	0/2402	76.60%	1.305	0.012	0.006	0.04	8.65	9.00	1.084	0.013	22.1
Right side	3DH5	0/2402	76.60%	1.305	0.000	0.000	0.00	8.65	9.00	1.084	0.000	22.1
Top side	3DH5	0/2402	76.60%	1.305	0.011	0.006	0.09	8.65	9.00	1.084	0.012	22.1
Bottom side	3DH5	0/2402	76.60%	1.305	0.016	0.009	0.06	8.65	9.00	1.084	0.017	22.1
Back side	3DH5	39/2441	76.60%	1.305	0.009	0.006	0.02	8.22	9.00	1.197	0.011	22.1
Back side	3DH5	78/2480	76.60%	1.305	0.012	0.008	-0.04	8.55	9.00	1.109	0.013	22.1



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9.5 Multiple Transmitter Evaluation

9.5.1 Simultaneous SAR SAR test evaluation

Simultaneous Transmission

NO.	Simultaneous Transmission Configuration	Extremity
1	WWAN	Yes
2	WWAN + BT	Yes

Simultaneous Transmission SAR Summation Scenario for Limbs

		SARma	x (W/kg)	0 1040	
Test position		Main	ВТ	Summed SAR	
		1	2	1+2	
	Front side	0.431	0.014	0.445	
	Back side	0.541	0.020	0.561	
WCDMA Band2	Left side	1.227	0.013	1.240	
WCDIVIA Bandz	Right side	0.005	0.000	0.005	
	Top side	0.291	0.012	0.303	
	Bottom side	0.166	0.017	0.183	
	Front side	0.470	0.014	0.484	
	Back side	1.139	0.020	1.159	
\\(\(\O\D\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Left side	1.297	0.013	1.310	
WCDMA Band4	Right side	0.004	0.000	0.004	
	Top side	0.403	0.012	0.415	
	Bottom side	0.185	0.017	0.202	
	Front side	0.099	0.014	0.113	
	Back side	0.128	0.020	0.148	
14/ODA4A B. 15	Left side	0.137	0.013	0.150	
WCDMA Band5	Right side	0.002	0.000	0.002	
	Top side	0.030	0.012	0.042	
	Bottom side	0.057	0.017	0.074	
	Front side	0.391	0.014	0.405	
	Back side	0.548	0.020	0.568	
1.75.0	Left side	1.333	0.013	1.346	
LTE Band2	Right side	0.003	0.000	0.003	
	Top side	0.397	0.012	0.409	
	Bottom side	0.066	0.017	0.083	
	Front side	0.406	0.014	0.420	
	Back side	0.989	0.020	1.009	
1.TE D 14	Left side	1.173	0.013	1.186	
LTE Band4	Right side	0.004	0.000	0.004	
	Top side	0.416	0.012	0.428	
	Bottom side	0.154	0.017	0.171	
	Front side	0.172	0.014	0.186	
	Back side	0.184	0.020	0.204	
LTE Band5	Left side	0.160	0.013	0.173	
ľ	Right side	0.002	0.000	0.002	
	Top side	0.058	0.012	0.070	



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	Bottom side	0.115	0.017	0.132
	Front side	0.271	0.014	0.285
	Back side	0.353	0.020	0.373
LTE Band12	Left side	0.264	0.013	0.277
LIE Band 12	Right side	0.003	0.000	0.003
	Top side	0.090	0.012	0.102
	Bottom side	0.133	0.017	0.150
	Front side	0.239	0.014	0.253
	Back side	0.295	0.020	0.315
LTE Band13	Left side	0.194	0.013	0.207
LIE Bandis	Right side	0.003	0.000	0.003
	Top side	0.096	0.012	0.108
	Bottom side	0.101	0.017	0.118
	Front side	0.239	0.014	0.253
	Back side	0.248	0.020	0.268
LTE Band14	Left side	0.217	0.013	0.230
LIE Band 14	Right side	0.005	0.000	0.005
	Top side	0.105	0.012	0.117
	Bottom side	0.109	0.017	0.126
	Front side	0.433	0.014	0.447
	Back side	0.981	0.020	1.001
LTE Band66	Left side	1.297	0.013	1.310
LIE Ballubo	Right side	0.003	0.000	0.003
	Top side	0.457	0.012	0.469
	Bottom side	0.135	0.017	0.152
	Front side	0.391	0.014	0.405
	Back side	0.523	0.020	0.543
LTE Band71	Left side	0.342	0.013	0.355
LIE Dallu/ I	Right side	0.005	0.000	0.005
	Top side	0.123	0.012	0.135
	Bottom side	0.160	0.017	0.177



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10 Equipment list

	Test Platform	SPEAG DASY Professional								
	Description	SAR Test System (Frequency range 300MHz-6GHz)								
Sc	oftware Reference	DASY8 Module SAR V16.2.4.2524								
	Hardware Reference									
	Equipment	Manufacturer	Model	Inventory no	Calibration Date	Due date of calibration				
\boxtimes	DAE	SPEAG	DAE4ip	SZ-WSR-M-078	2023/9/12	2024/9/11				
\boxtimes	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-075	2023/7/17	2024/07/16				
\boxtimes	Validation Kits	SPEAG	D750V3	SZ-WSR-M-032	2022/06/06	2025/06/05				
\boxtimes	Validation Kits	SPEAG	D835V2	SZ-WSR-M-033	2022/11/02	2025/11/01				
	Validation Kits	SPEAG	D1750V2	SZ-WSR-M-035	2022/06/17	2025/06/16				
\boxtimes	Validation Kits	SPEAG	D1950V2	SZ-WSR-M-037	2022/10/31	2025/10/30				
\boxtimes	Validation Kits	SPEAG	D2450V2	SZ-WSR-M-039	2022/11/02	2025/11/01				
	Test software	SPEAG	DASY8	SZ-WSR-S-006	NCR	NCR				
\boxtimes	Dielectric parameter probes	SPEAG	DAKS-3.5	SZ-WSR-M-053	2023/06/15	2024/06/14				
\boxtimes	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	SZ-WSR-M-054	2023/6/07	2024/6/06				
\boxtimes	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-005	2024/01/30	2025/01/29				
\boxtimes	RF Bi-Directional Coupler	Agilent	86205-60001	SZ-WSR-A-004	NCR	NCR				
	Signal Generator	Agilent	N5171B	SZ-WSR-M-006	2024/1/30	2025/1/29				
	Preamplifier	Mini-Circuits	ZHL-42W	SZ-WSR-A-001	NCR	NCR				
\boxtimes	Preamplifier	Compliance Directions Systems Inc.	AMP28-3W	SZ-WSR-A-002	NCR	NCR				
\boxtimes	Power Meter	Agilent	E4416A	SZ-WSR-M-007	2024/01/30	2025/01/29				
\boxtimes	Power Sensor	Agilent	8481H	SZ-WSR-M-008	2024/01/30	2025/01/29				
\boxtimes	Power Sensor	R&S	NRP-Z92	SZ-WSR-M-009	2024/01/30	2025/01/29				
\boxtimes	Attenuator	SHX	TS2-3dB	SZ-WSR-A-012	NCR	NCR				
\boxtimes	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-001	2024/01/31	2025/01/30				



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11 Calibration certificate

Please see the Appendix C

Photographs 12

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

---END---



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