

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

Report No.: SZCR230400092609

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FCC SAR TEST REPORT

Application No.: SZCR2304000926AT

Applicant: Vanstone Electronic (Beijing) Co., Ltd.

3F No.2 Building, Aisino corporation park 18A, Xingshikou Road, Haidian **Address of Applicant:**

District, Beijing, 100195 China

Manufacturer: Vanstone Electronic (Beijing) Co., Ltd.

3F No.2 Building, Aisino corporation park 18A, Xingshikou Road, Haidian Address of Manufacturer:

District, Beijing, 100195 China

Product Name: MiniPOS Terminal

Model No.(EUT): V66

FCC ID: OWLV66

FCC 47CFR §2.1093 Standard(s):

Date of Receipt: 2023-05-07

2023-05-08 to 2023-05-19 Date of Test:

2023-05-25 Date of Issue:

Pass* **Test Result:**

Keny Xu

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	2023-05-25	/

Authorized for issue by:		
	Owen Xiao	
	Owen xiao/ Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)
Frequency Band	Extremity
GSM850	1.031
GSM1900	2.682
WCDMA Band II	1.955
WCDMA Band IV	2.994
WCDMA Band V	0.499
LTE Band 2	1.571
LTE Band 4	1.16
LTE Band 5	0.528
LTE Band 7	1.582
LTE Band 40a	1.098
LTE Band 40b	1.135
LTE Band 66	1.805
WI-FI (2.4GHz)	0.035
Bluetooth	0.025
SAR Limited(W/kg)	4
Maximum Simultaneous Transmission SAR (W/kg)	
Scenario	Extremity
Sum SAR	3.029
SPLSR	N/A
SPLSR Limited	0.1



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General Information

1.1 General Description of EUT

Product Phase:	Production unit		
Device Type:	e Type: Portable device		
Exposure Category: Uncontrolled environment		ent / general population	
SN:			
Hardware Version:	V1.00		
Software Version:	V1.00		
Antenna Gain:	BLE/2.4G WIFI: 0.76dBi 850:-4.4dBi, 1900:0dBi, 3GB2:0dBi, B4:-3.4dBi, B5: -4.4dBi 4GB2:0dBi, B4: -3.4dBi, B5: -4.4dBi, B7:0dBi;B40:0.7dBi, B66:- 3dBi		
Antenna Type:	PIFA antenna		
Device Operating Configurations:			
Modulation Mode:	GSM:GMSK,8PSK; WCDMA:QPSK, LTE:QPSK,16QAM; WIFI: CCK, DSSS, OFDM;BT: GFSK, π/4DQPSK, 8DPSK		
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12
HSDPA UE Category:	14	HSUPA UE Category	6
DC-HSDPA UE Category:	24	LTE UE Category:	5
	1,tested with power level 5(GSM850)		
	2,tested with power level 0(GSM1900)		
Power Class:	3,tested with power control "all 1"(WCDMA Band II/IV/V)		
	4, tested with power control Max Power(LTE Band 2/4/5/7/40/66)		
	Band	Tx (MHz)	Rx (MHz)
	GSM850	824-849	869-894
	GSM1900	1850-1910	1930-1990
	WCDMA Band II	1850-1910	1930-1990
	WCDMA Band IV	1710-1755	2110- 2155
	WCDMA Band V	824-849	869-894
Frequency Bands:	LTE Band 2	1850-1910	1930-1990
	LTE Band 4	1710-1755	2110- 2155
	LTE Band 5	824-849	869-894
	LTE Band 7	2500-2570	2620- 2690
	LTE Band 40	2305~2315 2350~2360	2305~2315 2350~2360
	LTE Band 66	1710~1780	2110~2180



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	WIFI2.4G	2412-2462	2412-2462
	BT	2402-2480	2402-2480
	Model:	HBT-661	
	Normal Voltage :	DC3.8V	
5 " 16 "	Rated capacity:	2000mAh	
Battery Information:	Battery Type:	Rechargeable Li-ion Battery	
	Manufacturer:	Zhuhai Greaton Electronic Technology Co.,Ltd.	



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1.1.1 DUT Antenna Locations

Please see the Appendix D



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1.2 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 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 447498 D04 v01	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
KDB 248227 D01 v02r02	SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS
KDB 941225 D01 v03r01	3G SAR Measurement Procedures
KDB 941225 D05 v02r05	SAR EVALUATION CONSIDERATIONS FOR LTE DEVICES
KDB 941225 D06 v02r01	SAR EVALUATION PROCEDURES FOR PORTABLE DEVICES WITH WIRELESS ROUTER CAPABILITIES



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1.3 RF exposure limits

Human Exposure	Uncontrolled Environment	Controlled Environment
Human Exposure	General Population	Occupational
Spatial Peak SAR*	1.60 \\\\\\\	9 00 111/1/2
(Brain*Trunk)	1.60 W/kg	8.00 W/kg
Spatial Average SAR**	0.08 W/kg	0.40 W/kg
(Whole Body)		
Spatial Peak SAR***	4.00 \\\\\\\	20.00 W/kg
(Hands/Feet/Ankle/Wrist)	4.00 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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1.4 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.

1.5 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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Laboratory Environment 2

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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SAR Measurements System Configuration

3.1 The SAR Measurement System

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

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

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

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

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

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



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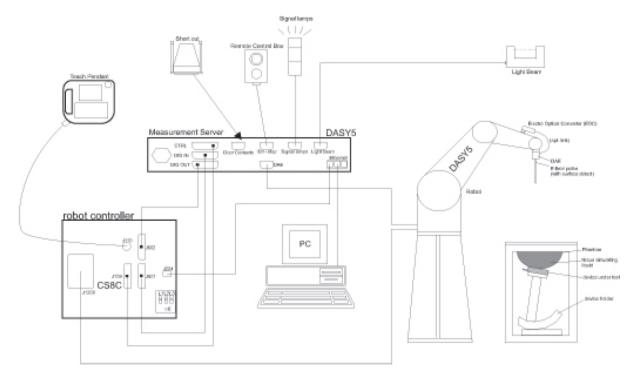
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F-1. SAR Measurement System Configuration

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



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3.2 Isotropic E-field Probe EX3DV4

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 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	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI



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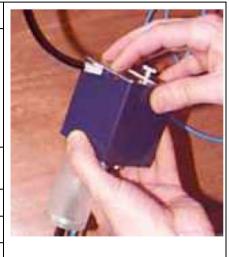
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3.3 Data Acquisition Electronics (DAE)

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



3.4 SAM Twin Phantom

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



The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

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



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3.5 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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3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity 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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3.7 Measurement procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

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

Step 2: Area scan

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

Step 3: Zoom scan

Around this point, a volume of 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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			< 3 GHz	> 3 GHz		
			≥ 3 Unz	/ 3 Unz		
Maximum distance from (geometric center of pro-		-	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$		
Maximum probe angle surface normal at the m	-	•	30° ± 1°	20° ± 1°		
			≤2 GHz: ≤15 mm 2 – 3 GHz: ≤12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm		
Maximum area scan sp	atial resolu	ntion: Δx _{Area} , Δy _{Area}	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.			
Maximum zoom scan s	patial reso	lution: Δx_{Zoom} , Δy_{Zoom}	≤ 2 GHz: ≤ 8 mm 2 - 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*		
	uniform g	grid: Δz _{Zoom} (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm		
Maximum zoom scan spatial resolution, normal to phantom surface	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 $\Delta z_{Zoom}(n>1)$: between subsequent points		$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$			
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm		

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

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. ± 5 %



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



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3.7.2 Data Storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".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.

Data Evaluation by SEMCAD

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

Probe parameters: - Sensitivity Normi, ai0, ai1, ai2

- Conversion factor ConvFi - Diode compression point Dcpi

Device parameters: - Frequency

- Crest factor

Media parameters: - Conductivity

- 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)



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

cf = crest factor of exciting field (DASY parameter)

dcp i = diode compression point (DASY parameter)

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

E-field probes:

$$E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$$

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

[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

4.1 SAR measurement variability

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

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 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-a 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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4.2 SAR measurement uncertainty

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

		Mea	surement uncerta	inty evaluatio	n				
A	b1	С	d	e=f(d,K)	f	g	i=C*g/e	i=C*g/e	k
Uncertainty Component	Section in P1528	Tol (%)	Prob. Dist	Div.	C _{i (1g)}	Ci (10g)	1-g ui(%)	10-g ui(%)	Vi (Veff)
Measurement System									
Probe Calibration (k=1)	E.2.1	6.3	N	1	1	1	6.30	6.30	∞
Axial Isotropy	E.2.2	0.5	R	√3	0.7	0.7	0.20	0.20	∞
Hemispherical Isotropy	E.2.2	2.6	R	√3	0.7	0.7	1.06	1.06	∞
Boundary Effect	E.2.3	1.0	R	√3	1	1	0.58	0.58	∞
Linearity	E.2.4	0.6	R	√3	1	1	0.35	0.35	∞
System Detection LimitS	E.2.4	0.25	R	√3	1	1	0.14	0.14	∞
Modulation Response	E.2.5	2.4	R	√3	1	1	1.39	1.39	∞
Readout Electronics	E.2.6	0.3	N	1	1	1	0.30	0.30	∞
Response Time	E.2.7	0.0	R	√3	1	1	0.00	0.00	∞
Integration Time	E.2.8	2.6	R	√3	1	1	1.50	1.50	∞
RF Ambient Condition-Noise	E.6.1	3.0	R	√3	1	1	1.73	1.73	∞
RF Ambient Condition-Reflections	E.6.1	3.0	R	√3	1	1	1.73	1.73	∞
Probe Positioning-Mechanical Tolerance	E.6.2	1.5	R	√3	1	1	0.87	0.87	80
Probe Positioning-with Respect to Phantom	E.6.3	2.9	R	√3	1	1	1.67	1.67	8
Max. SAR Evaluation	E.5	1.0	R	√3	1	1	0.58	0.58	∞
Test sample Related	•		•	1			•	•	
Test sample Positioning	E.4.2	3.7	N	1	1	1	3.70	3.70	9
Device Holder Uncertainty	E.4.1	3.6	N	1	1	1	3.60	3.60	∞
Output Power Variation-SAR Drift Measurement	E.2.9	5	R	√3	1	1	2.89	2.89	∞
Output Power Variation-SAR Drift Measurement	E.6.5	0	R	√3	1	1	0.00	0.00	∞0
Phantom and Tissue Parameters				•					•
Phantom Uncertainty(Shape and Thickness Tolerances)	E.3.1	4	R	√3	1	1	2.31	2.31	∞0
SAR Correction	E.3.2	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid Conductivity (Measurement Uncertainty)	E.3.3	3.75	N	1	0.78	0.71	2.93	2.663	5
Liquid Permittivity (Measurement Uncertainty)	E.3.3	1.62	N	1	0.23	0.26	0.37	0.421	5
Liquid Conductivity (Temperature Uncertainty)	E.3.4	4.2	R	√3	0.78	0.71	1.89	1.72	∞
Liquid Permittivity ((Temperature Uncertainty)	E.3.4	3.7	R	√3	0.23	0.26	0.49	0.56	8
Combined Standard Uncertainty				RSS			10.58	10.43	430
Expanded Uncertainty (95% Confidence Interval)				<i>k</i> =2			21.16%	20.87%	



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5 **Description of Test Position**

5.1 Extremity exposure conditions

Devices that are designed or intended for use on extremities, or mainly operated in extremity only exposure conditions, i.e., hands, wrists, feet and ankles, may require extremity SAR evaluation. When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. The 1-g body and 10-g extremity SAR Test Exclusion Thresholds in 8.2 should be applied to determine SAR test requirements. When extremity SAR testing is required, a flat phantom must be used if the exposure condition is more conservative than the actual use conditions; otherwise, a KDB inquiry is required to determine the phantom and test requirements. Body SAR compliance is also tested with a flat phantom. For devices with irregular shapes or form factors that do not conform to a flat phantom, and/or unusual operating configurations and exposure conditions, a KDB inquiry is also required to determine the appropriate SAR measurement procedures. Unless it is specified differently in the published RF exposure KDB procedures, when simultaneous transmission applies to extremity exposure, the simultaneous transmission SAR test exclusion provisions should be applied. When simultaneous transmission SAR measurement is required, the enlarged zoom scan and volume scan postprocessing procedures in KDB Publication 865664 D01 should be applied.

SAR can test the sides near the antenna, the surface of the device should be tested for SAR compliance with the device touching the phantom. The SAR Exclusion Threshold in KDB 447498 D04 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent device surface is used to determine if SAR testing is required for the adjacent surfaces, with the adjacent surface positioned against the phantom and the surface containing the antenna positioned perpendicular to the phantom.



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SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients		Frequency (MHz)										
(% by weight)	450		83	835		915		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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6.1.2 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	ead	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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6.1.3 **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 E5071B Network Analyzer (300 KHz-8500 MHz). The Conductivity (σ) and Permittivity (p) 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 Type	Measured Frequency (MHz)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Liquid Temp. (°C)	Date		
835 Head	835	0.916	42.052	0.90	41.50	1.78	1.33	±5	22.1	2023/5/16		
1800 Head	1800	1.383	39.873	1.40	40.00	-1.21	-0.32	±5	22.2	2023/5/12		
1900 Head	1900	1.410	40.089	1.40	40.00	0.71	0.22	±5	22.3	2023/5/10		
2300 Head	2300	1.702	39.558	1.67	39.50	1.92	0.15	±5	22	2023/5/15		
2450 Head	2450	1.817	39.995	1.80	39.20	0.94	2.03	±5	22	2023/5/19		
2600 Head	2600	1.967	39.725	1.96	39.00	0.36	1.86	±5	22.1	2023/5/8		



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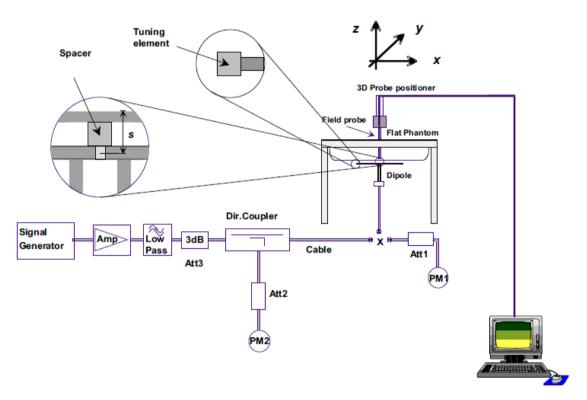
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6.2 SAR System Check

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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6.2.1 Justification for Extended SAR Dipole Calibrations

- 1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.
- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 10% of calibrated measurement;
- d) Impedance is within 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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6.2.2 Summary System Check Result(s)

	SAR System Validation Result(s)											
Validation Kit		Measured SAR SAR 250mW		SAR SAR SAR SAR (normalized (normalized)		Target SAR (normalized to 1w) (±10%) (±10%)		Deviation (Within ±10%)		Liquid Temp. (°C)	Measured Date	
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg)	10- g(W/kg)			
D835V2	Head	2.36	1.58	9.44	6.32	9.41	6.25	0.32%	1.12%	22.1	2023/5/16	
D1800V2	Head	9.88	5.19	39.52	20.76	38.4	20.2	2.92%	2.77%	22.2	2023/5/12	
D1900V2	Head	10.1	5.19	40.4	20.76	39.7	20.5	1.76%	1.27%	22.3	2023/5/10	
D2300V2	Head	11.6	5.61	46.4	22.44	47.4	22.8	-2.11%	-1.58%	22	2023/5/15	
D2450V2	Head	13.1	6.12	52.4	24.48	53	24.6	-1.13%	-0.49%	22	2023/5/19	
D2600V2	Head	14.4	6.33	57.6	25.32	56.2	25	2.49%	1.28%	22.1	2023/5/8	

6.2.3 Detailed System Check Results

Please see the Appendix A



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7 **Test Configuration**

7.1 3G SAR Test Reduction Procedure

According to KDB 941225D01, in the following procedures, the mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode. This is referred to as the 3G SAR test reduction procedure in the following SAR test quidance, where the primary mode is identified in the applicable wireless mode test procedures and the secondary mode is wireless mode being considered for SAR test reduction by that procedure. When the 3G SAR test reduction procedure is not satisfied, it is identified as "otherwise" in the applicable procedures; SAR measurement is required for the secondary mode.

7.2 Operation Configurations

7.2.1 WCDMA Test Configuration

1) . Output Power Verification

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

2) . Head SAR

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

3) . Body SAR

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



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4) . HSDPA / HSUPA / DC-HSDPA

According to KDB 941225 D01v03, RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is ≤ ¼ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA

a) **HSDPA**

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



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Sub-test	βc	Bd	βd(SF)	βc/βd	βhs	CM(dB)	MPR (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0
2	12/15(3)	15/15(3)	64	12/15(3)	24/15	1.0	0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note1: \triangle ACK, \triangle NACK and \triangle CQI= 8 Ahs = β hs/ β c=30/15 β hs=30/15* β c

Note2:For the HS-DPCCH power mask requirement test in clause 5.2C,5.7A,and the Error Vector Magnitude(EVM) with HS-DPCCH test in clause 5.13.1.A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, \triangle ACK and \triangle NACK= 8 (Ahs=30/15) with β hs=30/15* β c,and \triangle CQI=

7 (Ahs=24/15) with βhs=24/15*βc.

Note3: CM=1 forβc/βd =12/15, βhs/βc=24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

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

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



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

b) <u>HSUPA</u>

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



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Sub -test₽	βοσ	βd€	β _d (SF) _e	β₀/β₫₽	β _{hs} (1	β _{ec+}	βede³	β _e _e (SF)+ ³	β _{ed} ↔ (code	CM(2)+1 (dB)+2	MP R↓ (dB)↓	AG ⁽⁴)← Inde x←	E- TFC I
1₽	11/15(3)+3	15/15(3)	64₽	11/15(3)(2)	22/15₽	209/22 5₽	1039/225₽	4€	1₽	1.04	0.0	20₽	75₽
20	6/15₽	15/15∉	64₽	6/15₽	12/15₽	12/15	94/75₽	4₽	1₽	3.0₽	2.0₽	12₽	67₽
3₽	15/15₽	9/15₽	64₽	15/9₽	30/15₽	30/15₽	β _{ad1} :47/1 5 ₄ , β _{ed2:47/1} 5 ₄ ,	4₽	2₽	2.0₽	1.0₽	15₽	92₽
4₽	2/15₽	15/15₽	64₽	2/15₽	4/15₽	2/15₽	56/75₽	4₽	1₽	3.0₽	2.0₽	17₽	71₽
5₽	15/15(4)+3	15/15(4)(3	64₽	15/15(4)43	30/15₽	24/15₽	134/15₽	4₽	1₽	1.0₽	0.0₽	210	81₽

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

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference-

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 10/15 and β_d = 15/15.

Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g₽

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

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

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



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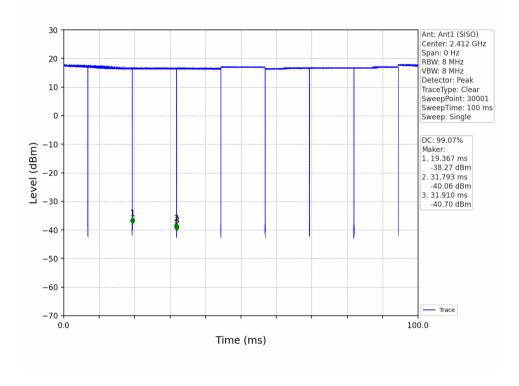
7.2.2 Wi-Fi Test Configuration

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

7.2.2.1 Duty cycle

1) 2.4GHz Wi-Fi:

WI-FI 802.11b: Duty cycle= 99.07%





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7.2.2.2 Initial Test Position SAR Test Reduction Procedure

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

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

7.2.2.3 Initial Test Configuration Procedures

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

For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode. For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration.

When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until reported SAR is ≤ 1.2 W/kg or all required channels are tested.



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7.2.2.4 Subsequent Test Configuration Procedures

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

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

7.2.2.5 2.4 GHz Wi-Fi SAR Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test



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position and initial test position procedure applies to multiple exposure test positions. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in following.

• 802.11b DSSS SAR Test Requirements

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

- 1) . When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) . When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.
 - 2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements

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

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

7.2.2.6 5 GHz Wi-Fi SAR Procedures

U-NII-1 and U-NII-2A Bands

For devices that operate in only one of the U-NII-1 and U-NII-2A bands, the normally required SAR procedures for OFDM configurations are applied. For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following:

- When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, both bands are tested independently for SAR.
- When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, both bands are tested independently for SAR.
- The two U-NII bands may be aggregated to support a 160 MHz channel on channel number 50. Without additional testing, the maximum output power for this is limited to the lower of the maximum output power certified for the two bands. When SAR measurement is required for at least one of the bands and the highest reported SAR adjusted by the ratio of specified maximum output power of aggregated to standalone band is > 1.2 W/kg, SAR is required for the 160 MHz channel. This procedure does not apply to an aggregated band with maximum output higher than the standalone band(s); the aggregated band must be tested independently for SAR. SAR is not required when the 160 MHz channel is operating at a reduced maximum power and also qualifies for SAR test exclusion.



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U-NII-2C and U-NII-3 Bands

The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements, when Terminal Doppler Weather Radar (TDWR) restriction applies, all channels that operate at 5.60 – 5.65 GHz must be included to apply the SAR test reduction and measurement procedures.

When the same transmitter and antenna(s) are used for U-NII-2C band and U-NII-3 band or 5.8 GHz band of §15.247, the bands may be aggregated to enable additional channels with 20, 40 or 80 MHz bandwidth to span across the band gap, as illustrated in Appendix B. The maximum output power for the additional band gap channels is limited to the lower of those certified for the bands. Unless band gap channels are permanently disabled, they must be considered for SAR testing. The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. To maintain SAR measurement accuracy and to facilitate test reduction, the channels in U-NII-2C band above 5.65 GHz may be grouped with the 5.8 GHz channels in U-NII-3 or §15.247 band to enable two SAR probe calibration frequency points to cover the bands, including the band gap channels. When band gap channels are supported and the bands are not aggregated for SAR testing, band gap channels must be considered independently in each band according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

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

- The largest channel bandwidth configuration is selected among the multiple configurations with the same specified maximum output power.
- If multiple configurations have the same specified maximum output power and largest channel bandwidth, 2) the lowest order modulation among the largest channel bandwidth configurations is selected.
- If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
- When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n. After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration and subsequent test configuration(s), with respect to the default power measurement procedures or additional power measurements required for further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection.
 - The channel closest to mid-band frequency is selected for SAR measurement. a)
 - For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.



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· SAR Test Requirements for OFDM configurations

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



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7.2.3 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The 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.

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.

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 V13.5.0 (201609) Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

Modulation	Cha	Channel bandwidth / Transmission bandwidth (N _{RB})									
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 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

1) QPSK with 1 RB allocation

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

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

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



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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 > 1/2 dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

E) Other channel bandwidth standalone SAR test requirements

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



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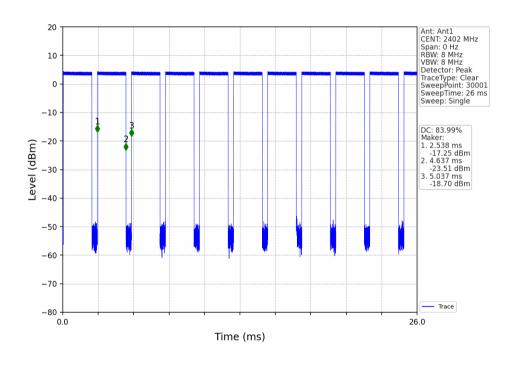
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7.2.4 BluetoothTest Configuration

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.

7.2.4.1 Duty cycle

Bluetooth duty cycle: 83.99%





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8 **Test Result**

8.1 Measurement of RF Conducted Power

8.1.1 Conducted Power Of GSM

	GSM 850												
Burs	t Output Pow	er(dBm)			Tune	Division		-Average ower(dBi	•	Tune			
Channe		128	190	251	up	Factors	128	190	251	up			
	1 TX Slot	33.43	33.20	32.91	34.0	-9.03	24.4	24.17	23.88	24.97			
GPRS/EGPRS	2 TX Slots	33.43	33.21	32.93	34.0	-6.02	27.41	27.19	26.91	27.98			
(GMSK)	3 TX Slots	32.00	31.74	31.52	33.0	-4.26	27.74	27.48	27.26	28.74			
	4 TX Slots	30.17	29.88	29.73	31.0	-3.01	27.16	26.87	26.72	27.99			
	1 TX Slot	27.92	27.98	27.56	29.0	-9.03	18.89	18.95	18.53	19.97			
EGPRS(8PSK)	2 TX Slots	26.27	26.46	26.59	27.0	-6.02	20.25	20.44	20.57	20.98			
	3 TX Slots	24.07	24.11	24.00	25.0	-4.26	19.81	19.85	19.74	20.74			
	4 TX Slots	21.98	22.06	21.99	23.0	-3.01	18.97	19.05	18.98	19.99			
				GSM	1900								
Burs	t Output Pow	er(dBm)			Tune	Division	Frame-Average Output Power(dBm)		Tune				
Channe	l	512	661	810	up	Factors	512	661	810	up			
	1 TX Slot	30.37	30.34	30.21	31.0	-9.03	21.34	21.31	21.18	21.97			
GPRS/EGPRS	2 TX Slots	30.37	30.35	30.23	31.0	-6.02	24.35	24.33	24.21	24.98			
(GMSK)	3 TX Slots	29.29	29.30	29.10	30.0	-4.26	25.03	25.04	24.84	25.74			
(Gillert)	4 TX Slots	27.68	27.63	27.33	28.0	-3.01	24.67	24.62	24.32	24.99			
FGPRS(8PSK)	1 TX Slot	27.22	28.49	27.81	29.0	-9.03	18.19	19.46	18.78	19.97			
	2 TX Slots	27.22	26.58	26.52	28.0	-6.02	21.2	20.56	20.5	21.98			
	3 TX Slots	23.84	24.36	24.50	25.0	-4.26	19.58	20.1	20.24	20.74			
	4 TX Slots	21.47	22.23	22.17	23.0	-3.01	18.46	19.22	19.16	19.99			



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8.1.2 Conducted Power Of WCDMA

Average Conducted Power(dBm) State		WCDMA Band II											
WCDMA													
Subtest 1 22.2 21.63 22.17 23.0		Channel	9262	9400	9538	Tune up							
HSDPA	WCDMA	12.2kbps RMC	23.72	23.18	23.76	24.0							
HSDPA		Subtest 1	22.2	21.63	22.17	23.0							
Subtest 3 22.15 21.6 22.2 23.0	ПСОВУ	Subtest 2	22.17	21.6	22.17	23.0							
Subtest 1	ПОДРА	Subtest 3	22.15	21.6	22.2	23.0							
Subtest 2 21.71 20.89 20.09 22.0		Subtest 4	22.11	21.57	22.15	23.0							
HSUPA Subtest 3 21.67 20.68 21.67 22.0		Subtest 1	20.86	20.96	21.48	22.0							
Subtest 4 21.45 20.93 20.85 22.0		Subtest 2	21.71	20.89	20.09	22.0							
Subtest 5 20.25 21.16 20.75 22.0	HSUPA	Subtest 3	21.67	20.68	21.67	22.0							
WCDMA Band IV		Subtest 4	21.45	20.93	20.85	22.0							
Average Conducted Power(dBm) Channel 1312 1412 1513 Tune up		Subtest 5	20.25	21.16	20.75	22.0							
Channel 1312 1412 1513 Tune up WCDMA 12.2kbps RMC 24.24 23.02 23.48 25.0 HSDPA Subtest 1 22.07 21.46 20.98 22.5 Subtest 2 22.07 21.42 21.02 22.5 Subtest 3 22.05 21.42 20.99 22.5 Subtest 4 22.02 21.42 20.95 22.5 Subtest 1 21.31 20.84 20.14 22.0 Subtest 2 21.32 20.79 20.06 22.0 Subtest 3 21.29 20.79 20.07 22.0 Subtest 4 21.3 20.78 20.23 22.0 Subtest 5 21.49 20.98 20.12 22.0 WCDMA Band V Average Conducted Power(dBm)		WC											
WCDMA 12.2kbps RMC 24.24 23.02 23.48 25.0 HSDPA Subtest 1 22.07 21.46 20.98 22.5 Subtest 2 22.07 21.42 21.02 22.5 Subtest 3 22.05 21.42 20.99 22.5 Subtest 4 22.02 21.42 20.95 22.5 Subtest 1 21.31 20.84 20.14 22.0 Subtest 2 21.32 20.79 20.06 22.0 Subtest 3 21.29 20.79 20.07 22.0 Subtest 4 21.3 20.78 20.23 22.0 Subtest 5 21.49 20.98 20.12 22.0 WCDMA Band V Average Conducted Power(dBm)		Average Con	ducted Power(dBm)									
HSDPA Subtest 1 22.07 21.46 20.98 22.5 Subtest 2 22.07 21.42 21.02 22.5 Subtest 3 22.05 21.42 20.99 22.5 Subtest 4 22.02 21.42 20.95 22.5 Subtest 1 21.31 20.84 20.14 22.0 Subtest 2 21.32 20.79 20.06 22.0 Subtest 3 21.29 20.79 20.07 22.0 Subtest 4 21.3 20.78 20.23 22.0 WCDMA Band V Average Conducted Power(dBm)		Channel	1312	1412	1513	Tune up							
HSDPA Subtest 2 22.07 21.42 21.02 22.5 Subtest 3 22.05 21.42 20.99 22.5 Subtest 4 22.02 21.42 20.95 22.5 Subtest 1 21.31 20.84 20.14 22.0 Subtest 2 21.32 20.79 20.06 22.0 Subtest 3 21.29 20.79 20.07 22.0 Subtest 4 21.3 20.78 20.23 22.0 Subtest 5 21.49 20.98 20.12 22.0 WCDMA Band V Average Conducted Power(dBm)	WCDMA	12.2kbps RMC	24.24	23.02	23.48	25.0							
Subtest 3 22.05 21.42 20.99 22.5		Subtest 1	22.07	21.46	20.98	22.5							
Subtest 3 22.05 21.42 20.99 22.5 Subtest 4 22.02 21.42 20.95 22.5 Subtest 1 21.31 20.84 20.14 22.0 Subtest 2 21.32 20.79 20.06 22.0 Subtest 3 21.29 20.79 20.07 22.0 Subtest 4 21.3 20.78 20.23 22.0 Subtest 5 21.49 20.98 20.12 22.0 WCDMA Band V Average Conducted Power(dBm)	ПСОВУ	Subtest 2	22.07	21.42	21.02	22.5							
Subtest 1 21.31 20.84 20.14 22.0	ПОДРА	Subtest 3	22.05	21.42	20.99	22.5							
HSUPA Subtest 2 21.32 20.79 20.06 22.0 Subtest 3 21.29 20.79 20.07 22.0 Subtest 4 21.3 20.78 20.23 22.0 Subtest 5 21.49 20.98 20.12 22.0 WCDMA Band V Average Conducted Power(dBm)		Subtest 4	22.02	21.42	20.95	22.5							
HSUPA Subtest 3 21.29 20.79 20.07 22.0 Subtest 4 21.3 20.78 20.23 22.0 Subtest 5 21.49 20.98 20.12 22.0 WCDMA Band V Average Conducted Power(dBm)		Subtest 1	21.31	20.84	20.14	22.0							
Subtest 4 21.3 20.78 20.23 22.0 Subtest 5 21.49 20.98 20.12 22.0 WCDMA Band V Average Conducted Power(dBm)		Subtest 2	21.32	20.79	20.06	22.0							
Subtest 5 21.49 20.98 20.12 22.0 WCDMA Band V Average Conducted Power(dBm)	HSUPA	Subtest 3	21.29	20.79	20.07	22.0							
WCDMA Band V Average Conducted Power(dBm)		Subtest 4	21.3	20.78	20.23	22.0							
Average Conducted Power(dBm)		Subtest 5	21.49	20.98	20.12	22.0							
		WCD	MA Band V										
Channel 4132 4182 4233 Tune up		Average Con	ducted Power(dBm)									
7.102 1702 1700 Turio up		Channel	4132	4182	4233	Tune up							
WCDMA 12.2kbps RMC 23.01 23.75 23 24.0	WCDMA	12.2kbps RMC	23.01	23.75	23	24.0							
Subtest 1 21.24 22.05 21.37 23.0		Subtest 1	21.24	22.05	21.37	23.0							
Subtest 2 21.41 22.04 21.39 23.0	НСПВУ	Subtest 2	21.41	22.04	21.39	23.0							
Subtest 3 21.44 22.06 21.38 23.0	HSDPA	Subtest 3	21.44	22.06	21.38	23.0							
Subtest 4 21.4 22 21.29 23.0		Subtest 4	21.4	22	21.29	23.0							
HSUPA Subtest 1 20.67 21.28 20.57 22.0	HQLIDA	Subtest 1	20.67	21.28	20.57	22.0							
Subtest 2 20.67 21.44 20.71 22.0	HOUFA	Subtest 2	20.67	21.44	20.71	22.0							



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Subtest 3	20.67	21.47	20.54	22.0
Subtest 4	20.71	21.28	20.73	22.0
Subtest 5	20.69	21.45	20.55	22.0



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8.1.3 Conducted Power Of LTE

LTE Band 2			Conducted	Power(dBm)			
Dan desidab	Madulatian	DD -:	RB	Channel	Channel	Channel	Tune up
Bandwidth	Modulation	RB size	offset	18607	18900	19193	
		1	0	23.24	23.51	24.08	25
		1	2	24.14	23.41	23.91	25
		1	5	24.28	23.54	24.03	25
	QPSK	3	0	24.11	23.38	23.98	24.5
		3	2	24.18	23.42	23.97	24.5
		3	3	24.19	23.4	23.95	24.5
4 40011-		6	0	23.13	22.41	22.93	24
1.4MHz		1	0	23.31	22.53	23	24
		1	2	23.23	22.44	22.95	24
		1	5	23.44	22.56	23	24
	16QAM	3	0	23.11	22.49	23.21	23.5
		3	2	23.13	22.49	23.21	23.5
		3	3	23.14	22.48	23.19	23.5
		6	0	22.21	21.4	22.07	23
Danduridth	Modulation	DD size	RB	Channel	Channel	Channel	Tune up
Bandwidth	Modulation	RB size	offset	18615	18900	19185	
	QPSK	1	0	24.05	23.29	24	25
		1	7	24.13	23.35	23.92	25
		1	14	24.23	23.38	23.85	25
		8	0	23.14	22.37	22.96	24
		8	4	23.25	22.41	22.97	24
		8	7	23.29	22.39	22.95	24
28411-		15	0	23.21	22.37	22.94	24
3MHz		1	0	23.45	22.44	22.92	24
		1	7	23.66	22.55	22.94	24
		1	14	23.7	22.54	22.89	24
	16QAM	8	0	22.36	21.42	22.04	23
		8	4	22.47	21.46	22.06	23
		8	7	22.52	21.45	22.03	23
		15	0	22.37	21.42	22.03	23
Randwidth	Modulation	RB size	RB	Channel	Channel	Channel	Tune up
Bandwidth	iviodulation	KD SIZE	offset	18625	18900	19175	
5MHz		1	0	24.12	23.32	24.12	25
	OBSK	1	13	24.34	23.38	23.99	25
	QPSK	1	24	24.41	23.53	23.92	25
		12	0	23.17	22.31	22.97	24



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		12	6	23.34	22.39	22.99	24
		12	13	23.36	22.37	22.91	24
		25	0	23.29	22.34	22.93	24
		1	0	22.95	22.48	23.1	24
		1	13	23.26	22.65	23.03	24
		1	24	23.3	22.8	22.91	24
	16QAM	12	0	22.32	21.4	21.98	23
		12	6	22.49	21.49	22	23
		12	13	22.47	21.47	21.93	23
		25	0	22.47	21.4	21.98	23
Barratust Id.	NA - I I - C	DD -: -	RB	Channel	Channel	Channel	Tune up
Bandwidth	Modulation	RB size	offset	18650	18900	19150	
		1	0	23.91	23.03	24.52	25
		1	25	24.32	23.1	23.93	25
		1	49	24.26	23.6	23.67	25
	QPSK	25	0	23.08	23.03	23.05	24
		25	13	23.37	22.13	22.86	24
		25	25	23.29	22.18	22.62	24
10MHz		50	0	23.22	22.06	22.81	24
		1	0	23.31	22.07	23.38	24
		1	25	23.8	22.31	22.86	24
	16QAM	1	49	23.72	22.73	22.57	24
		25	0	22.19	21.07	22.26	23
		25	13	22.48	21.22	21.98	23
		25	25	22.4	21.27	21.74	23
		50	0	22.3	21.14	21.87	23
Dan duri d4h	Modulation	DD oi-o	RB	Channel	Channel	Channel	Tune up
Bandwidth	Modulation	RB size	offset	18675	18900	19125	
		1	0	23.94	23.06	24.87	25
		1	38	24.37	23.08	24.18	25
		1	74	23.84	24.12	23.62	25
	QPSK	36	0	23.19	22.08	23.57	24
		36	18	23.4	22.14	23.28	24
15MHz		36	39	23.21	22.53	22.82	24
I DIVITZ		75	0	23.21	22.21	23.26	24
		1	0	23.42	22.2	23.13	24
		1	38	23.9	22.29	23.5	24
	16QAM	1	74	23.47	23.31	22.92	24
		36	0	22.32	21.15	22.66	23
		36	18	22.53	21.23	22.35	23



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		36	39	22.4	21.61	21.86	23
		75	0	22.34	21.31	22.31	23
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel	Tune up
Danawiani	iviodulation	KD SIZE	offset	18700	18900	19100	
		1	0	23.98	23.88	24.18	25
		1	50	24.28	24.53	24.48	25
		1	99	23.32	23.33	23.68	25
	QPSK	50	0	23.23	23.14	23.25	24
		50	25	23.33	23.38	23.34	24
		50	50	22.83	22.69	22.90	24
20MHz		100	0	23.08	23.43	23.19	24
ZUIVITZ		1	0	23.18	23.33	23.42	24
		1	50	23.57	22.35	23.90	24
		1	99	22.59	23.67	23.02	24
	16QAM	50	0	22.28	22.45	22.71	23
		50	25	22.39	21.77	22.55	23
		50	50	21.89	21.75	21.91	23
		100	0	22.16	21.37	22.44	23

	LTE Band 4	1		Conducted Power(dBm)				
Bandwidth	Modulation	DP oizo	RB	Channel	Channel	Channel	Tung un	
bandwidth	Modulation	RB size	offset	19957	20175	20393	Tune up	
		1	0	22.59	22.73	22.27	23.5	
		1	2	22.68	22.7	22.05	23.5	
	QPSK	1	5	22.22	22.9	22.1	23.5	
		3	0	22.74	22.6	22.09	23	
1.4MHz		3	2	22.81	22.74	21.98	23	
		3	3	22.79	22.75	21.95	23	
		6	0	22.27	21.78	21.04	23	
1. 4 1VITZ		1	0	22.41	21.98	21.29	23	
		1	2	22.23	21.93	21.12	23	
		1	5	22.35	22.09	21.19	23	
	16QAM	3	0	22.48	21.7	21.16	23	
		3	2	22.43	21.79	21.15	23	
		3	3	22.39	21.8	21.12	23	
		6	0	21.24	20.83	20.02	22	
Randwidth	Modulation	RB size	RB	Channel	Channel	Channel	Tune un	
Bandwidth Mo	Modulation	IVD SIZE	offset	19965	20175	20385	Tune up	
3MHz	QPSK	1	0	22.23	22.48	21.9	23.5	
SIVITZ	QP3N	1	7	22.42	22.7	21.62	23.5	



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	[1	14	22.33	22.81	21.99	23.5
		8	0	22.41	21.65	20.73	22.5
		8	4	22.46	21.81	20.61	22.5
		8	7	22.31	21.84	21.86	22.5
		15	0	22.41	21.77	20.58	22.5
		1	0	22.41	21.64	20.85	22.5
		1	7	22.38	21.94	20.66	22.5
		1	14	22.37	22.1	21.98	22.5
	16QAM	8	0	21.37	20.66	19.81	21.5
		8	4	21.33	20.82	19.7	21.5
		8	7	21.28	20.86	19.58	21.5
		15	0	21.21	20.77	19.67	21.5
Dan dood dala	Madulatian	DD -:	RB	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	offset	19975	20175	20375	Tune up
		1	0	23.04	22.28	22.25	23.5
		1	13	23.01	22.77	21.81	23.5
	QPSK	1	24	23.1	22.92	22.31	23.5
		12	0	22.48	21.55	21.02	22.5
		12	6	22.37	21.8	20.86	22.5
		12	13	22.17	21.94	20.52	22.5
ENALL-		25	0	22.28	21.74	20.78	22.5
5MHz		1	0	22.43	21.55	21.28	22.5
		1	13	22.12	22.08	20.97	22.5
	16QAM	1	24	21.89	22.27	22.1	22.5
		12	0	21.43	20.63	20.02	21.5
		12	6	21.37	20.87	19.88	21.5
		12	13	21.17	21.02	19.54	21.5
		25	0	21.36	20.77	19.83	21.5
Bandwidth	Modulation	DR oize	RB	Channel	Channel	Channel	Tungun
Danuwiuth	Modulation	RB size	offset	20000	20175	20350	Tune up
		1	0	22.98	21.89	22.55	23.5
		1	25	23.03	22.56	22.23	23.5
	QPSK	1	49	22.17	22.88	22.45	23.5
		25	0	22.06	21.06	21.25	22.5
10MH-		25	13	21.87	21.6	21.25	22.5
10MHz		25	25	21.42	21.81	20.63	22.5
		50	0	21.73	21.45	21.13	22.5
		1	0	22.35	21.04	21.46	22.5
	16QAM	1	25	22.42	21.79	21.31	22.5
		1	49	21.61	22.13	22.1	22.5



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		25	0	21.1	20.15	20.36	21.5
		25	13	20.96	20.65	20.36	21.5
		25	25	20.56	20.85	19.74	21.5
		50	0	20.78	20.49	20.2	21.5
Bandwidth	Modulation	RB size	RB offset	Channel 20025	Channel 20175	Channel 20325	Tune up
		1	0	23.07	21.88	23.03	23.5
		1	38	22.56	22.57	22.48	23.5
		1	74	22.88	22.99	22.65	23.5
	QPSK	36	0	22	21.1	21.77	22.5
		36	18	21.57	21.54	21.53	22.5
		36	39	21.09	21.97	21.02	22.5
45841-		75	0	21.49	21.48	21.43	22.5
15MHz		1	0	22.31	21.1	22.31	22.5
		1	38	22.08	21.8	21.81	22.5
		1	74	21.47	22.22	20.7	22.5
	16QAM	36	0	21.03	20.14	20.79	21.5
		36	18	20.63	20.58	20.55	21.5
		36	39	20.14	21.01	20.05	21.5
		75	0	20.54	20.54	20.46	21.5
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel	Tune up
		112 0120	offset	20050	20175	20300	
		1	0	23.11	22.89	22.95	23.5
		1	50	22.19	22.59	22.69	23.5
		1	99	22.76	22.85	22.69	23.5
	QPSK	50	0	22.13	21.92	22.01	22.5
		50	25	21.24	21.59	21.75	22.5
		50	50	21.43	21.97	21.86	22.5
20MH-		100	0	21.19	21.38	21.62	22.5
20MHz		1	0	22.47	21.16	22.45	22.5
		1	50	21.53	21.84	22.24	22.5
		1	99	21.17	22.10	20.90	22.5
	16QAM	50	0	20.77	20.02	21.03	21.5
		50	25	20.26	20.62	20.78	21.5
		50	50	19.93	21.00	20.30	21.5
		100	0	20.22	20.42	20.67	21.5

	LTE Band 5					Power(dBm)	
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel	Tune up



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			offset	20407	20525	20643	
		1	0	22.96	23.31	23.2	23.5
	OPSK	1	2	22.82	23.19	23.04	23.5
		1	5	22.93	23.23	23.12	23.5
	QPSK	3	0	22.81	22.88	22.74	23
		3	2	22.83	22.87	22.73	23
		3	3	22.82	22.85	22.73	23
4 48411-		6	0	21.83	22.16	22.06	23
1.4MHz		1	0	22.04	22.31	22.12	22.5
		1	2	22.01	22.2	22.08	22.5
		1	5	22.09	22.3	22.19	22.5
	16QAM	3	0	21.84	21.93	21.98	22
		3	2	21.87	21.93	21.87	22
		3	3	21.87	21.91	21.99	22
		6	0	21.03	21.24	21.17	21.5
Don duridth	Modulation	DD size	RB	Channel	Channel	Channel	Tungun
Bandwidth	Modulation	RB size	offset	20415	20525	20635	Tune up
		1	0	22.81	23.5	23.05	23.5
		1	7	22.99	23.48	23	23.5
		1	14	23	23.34	23.03	23.5
	QPSK	8	0	21.89	21.79	21.98	22.5
		8	4	22.03	21.86	22.06	22.5
		8	7	22.06	22.47	22.05	22.5
3MHz		15	0	22	22.21	22.03	22.5
SIVITIZ		1	0	22.32	22.33	21.99	22.5
		1	7	22.39	22.36	22.06	22.5
		1	14	22.29	22.27	22.1	22.5
	16QAM	8	0	21.19	21.33	21.09	21.5
		8	4	21.3	21.33	21.18	21.5
		8	7	21.34	21.27	21.14	21.5
		15	0	21.19	21.29	21.17	21.5
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel	Tune up
Danawidin	Wioddiation	ND SIZE	offset	20425	20525	20625	
		1	0	22.85	23.4	23.12	23.5
		1	13	23.13	23.48	23.05	23.5
		1	24	23.2	23.3	23.01	23.5
5MHz	QPSK	12	0	21.93	22.49	21.97	22.5
311112		12	6	22.11	22.48	22.06	22.5
		12	13	22.2	22.38	21.99	22.5
		25	0	22.07	22.45	21.98	22.5



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	Í	i .	۱ ۵			00.40	
		1	0	21.63	22.34	22.13	22.5
		1	13	22.03	22.43	22.14	22.5
		1	24	22.07	22.25	22.12	22.5
	16QAM	12	0	21.05	21.34	21.02	21.5
		12	6	21.24	21.38	21.07	21.5
		12	13	21.32	21.24	21.06	21.5
		25	0	21.23	21.26	21.04	21.5
Dan duvi dila	Modulation	Modulation RB size	RB	Channel	Channel	Channel	T
Bandwidth	iviodulation		offset	20450	20525	20600	Tune up
		1	0	23.16	23.17	23.07	23.5
		1	25	22.79	23.03	22.87	23.5
		1	49	23.06	22.94	22.99	23.5
	QPSK	25	0	21.77	22.14	21.82	22.5
		25	13	22.13	22.28	21.88	22.5
		25	25	22.12	22.09	21.65	22.5
400011-		50	0	21.96	22.16	21.77	22.5
10MHz		1	0	22.01	22.32	22.02	22.5
	16QAM	1	25	22.46	22.46	21.93	22.5
		1	49	22.38	22.15	21.78	22.5
		25	0	20.95	21.33	21.03	21.5
		25	13	21.29	21.37	21.05	21.5
		25	25	21.3	21.23	20.82	21.5
		50	0	21.11	21.24	20.89	21.5

LTE Band 7				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel	Tune up
Banawiatii	Modulation	IND SIZE	offset	20775	21100	21425	Turic up
		1	0	23.42	23.4	23.27	23.5
		1	13	23.05	23.22	22.83	23.5
		1	24	22.67	22.9	22.4	23.5
	QPSK	12	0	22.43	22.47	22.17	22.5
		12	6	22.3	22.46	22.07	22.5
EMIL-		12	13	21.97	22.28	21.75	22.5
5MHz		25	0	22.15	22.39	21.98	22.5
		1	0	22.15	22.49	22.28	22.5
		1	13	21.86	22.46	21.91	22.5
	16QAM	1	24	21.5	22	21.49	22.5
		12	0	21.36	21.47	21.26	21.5
		12	6	21.24	21.39	21.14	21.5



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		12	13	20.98	21.46	20.87	21.5
		25	0	21.22	21.33	21.1	21.5
Dan desideb	Madulatian	DD -:	RB	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	offset	20800	21100	21400	Tune up
		1	0	23.08	23.37	23.14	23.5
		1	25	22.25	22.95	23.13	23.5
		1	49	21.62	22.2	22.13	23.5
	QPSK	25	0	21.72	22.28	22.48	22.5
		25	13	21.36	22.17	22.21	22.5
	10MHz 16QAM	25	25	20.94	21.72	21.74	22.5
400411-		50	0	21.34	22.04	22.09	22.5
TUIVIEZ		1	0	22.39	22.43	22.38	22.5
		1	25	21.76	22.26	22.14	22.5
		1	49	21.06	21.42	21.22	22.5
		25	0	20.81	21.42	21.47	21.5
		25	13	20.54	21.32	21.44	21.5
		25	25	20.11	20.99	20.98	21.5
		50	0	20.44	21.23	21.28	21.5
Bandwidth	Modulation	DD size	RB	Channel	Channel	Channel	Tungun
Dandwidth	Modulation	RB size	offset	20825	21100	21375	Tune up
		1	0	22.86	23.38	23.09	23.5
		1	38	21.76	22.77	23.29	23.5
		1	74	22.14	22.02	22.06	23.5
	QPSK	36	0	21.37	22.26	22.31	22.5
		36	18	20.9	22.04	22.47	22.5
		36	39	20.68	21.5	21.85	22.5
15MHz		75	0	20.84	21.93	22.26	22.5
ISWITZ		1	0	22.22	22.31	22.28	22.5
		1	38	21.22	22.09	22.47	22.5
		1	74	21.63	21.3	21.4	22.5
	16QAM	36	0	20.44	21.42	21.39	21.5
		36	18	20.04	21.21	21.47	21.5
		36	39	19.83	20.65	20.97	21.5
		75	0	20.06	21.13	21.42	21.5
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel	Tungun
Danuwiuiii	IVIOUUIALIOI1	VD 2176	offset	20850	21100	21350	Tune up
		1	0	23.24	23.41	23.19	23.5
20MHz	20MH- ODCK	1	50	22.46	22.73	22.45	23.5
ZUIVITZ	QPSK	1	99	22.76	22.79	22.53	23.5
		50	0	21.03	22.21	21.92	22.5



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		50	25	22.32	22.45	22.21	22.5
		50	50	21.2	21.26	21.99	22.5
		100	0	21.68	21.84	22.33	22.5
		1	0	21.9	21.69	21.6	22.5
		1	50	20.79	21.75	21.97	22.5
	16QAM	1	99	21.67	21.06	21.54	22.5
		50	0	20.14	21.41	21.05	21.5
		50	25	20.79	21.1	21.03	21.5
		50	50	20.3	20.4	21.11	21.5
		100	0	20.98	21	21.46	21.5

	LTE Band 40a	ı		Conducted Power(dBm)			
5 1 1 11			DD " .	Channel	Channel	Channel	-
Bandwidth	Modulation	RB size	RB offset	38725	38750	38775	Tune up
		1	0	23.17	22.57	22.90	23.50
		1	13	22.77	22.12	22.48	23.50
		1	24	22.21	21.56	21.84	23.50
	QPSK	12	0	21.89	21.58	20.89	22.00
		12	6	21.98	21.32	20.71	22.00
	SMIL.	12	13	21.58	20.93	20.34	22.00
5MHz		25	0	21.88	21.25	20.65	22.00
SIVINZ		1	0	21.98	21.74	21.15	22.00
		1	13	22.00	21.31	20.68	22.00
		1	24	20.88	20.71	20.08	21.00
	16QAM	12	0	20.76	20.68	19.97	21.00
		12	6	20.98	20.38	19.78	21.00
		12	13	20.71	20.00	19.39	21.00
		25	0	20.95	20.26	19.69	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Balluwidili	Modulation	KD SIZE	KD Ollset	1	38750	/	rune up
		1	0	1	23.00	/	23.50
		1	25	1	22.17	/	23.50
		1	49	1	22.79	/	23.50
	QPSK	25	0	1	21.72	1	22.00
10MHz		25	13	1	21.23	/	22.00
		25	25	1	21.56	/	22.00
		50	0	1	21.11	/	22.00
	16QAM	1	0	1	21.64	/	22.00
	TOQAW	1	25	1	21.19	/	22.00



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	1	49	/	19.96	/	21.00
	25	0	/	20.77	/	21.00
	25	13	/	20.31	/	21.00
	25	25	/	19.53	/	21.00
	50	0	/	20.18	/	21.00

	LTE Band 40	b		Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
	Modulation	110 0120	TID OHOOL	39649	39200	39225	rano ap
		1	0	22.93	22.89	23.08	23.50
		1	13	23.12	23.09	23.22	23.50
		1	24	23.07	23.08	22.99	23.50
	QPSK	12	0	21.94	22.08	22.18	22.50
		12	6	22.06	22.20	22.30	22.50
		12	13	22.07	22.10	22.25	22.50
5MHz		25	0	21.96	22.08	22.25	22.50
SWITZ		1	0	21.79	21.96	22.08	22.50
		1	13	22.09	22.43	22.09	22.50
		1	24	22.00	22.42	22.17	22.50
	16QAM	12	0	21.09	21.19	21.22	21.50
		12	6	21.25	21.30	21.37	21.50
		12	13	21.15	21.19	21.28	21.50
		25	0	21.05	21.13	21.30	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawiani	Modulation		KD Ollset	/	39200	/	Turie up
		1	0	/	22.87	/	23.50
		1	25	1	23.08	/	23.50
		1	49	/	22.93	/	23.50
	QPSK	25	0	/	21.97	/	22.50
		25	13	/	22.23	/	22.50
		25	25	/	22.10	/	22.50
10MHz		50	0	/	22.14	/	22.50
IUWIMZ		1	0	/	21.90	/	22.50
		1	25	/	22.42	/	22.50
		1	49	/	21.94	/	22.50
	16QAM	25	0	/	21.04	/	21.50
		25	13	/	21.30	/	21.50
		25	25	/	21.16	/	21.50
		50	0	/	21.20	/	21.50



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	LTE Band 6	6		Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 131979	Channel 132322	Channel 132665	Tune up
		1	0	23.61	23.62	22.64	24
		1	2	23.37	23.49	22.3	24
		1	5	23.49	23.47	22.31	24
	QPSK	3	0	23.43	23.46	22.41	23.5
		3	1	23.41	23.49	22.32	23.5
		3	3	23.43	23.49	22.26	23.5
4 48411-		6	0	22.94	22.69	21.43	23
1.4MHz		1	0	22.98	22.84	21.79	23
		1	2	22.78	22.73	21.6	23
		1	5	22.9	22.72	21.58	23
	16QAM	3	0	22.72	22.57	21.43	23
		3	1	22.66	22.53	21.34	23
		3	3	22.66	22.5	21.29	23
		6	0	22.06	21.74	20.61	22.5
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel	Tune up
Danuwium		KD SIZE	offset	131987	132322	132657	Tune up
		1	0	23.87	23.63	22.8	24
		1	7	23.81	23.45	22.51	24
		1	14	23.63	23.23	22.08	24
	QPSK	8	0	22.94	22.82	21.81	23
		8	4	22.92	22.68	21.67	23
		8	7	22.91	22.67	21.5	23
3MHz		15	0	22.9	22.75	21.63	23
SIVITIZ		1	0	22.78	22.85	21.93	23
		1	7	22.77	22.76	21.76	23
		1	14	22.49	22.58	21.35	23
	16QAM	8	0	22.07	21.91	21.99	23
		8	4	21.89	21.82	20.87	22
		8	7	21.97	21.73	20.67	22
		15	0	21.88	21.74	20.78	22
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel	Tune un
			offset	131997	132322	132647	Tune up
5MHz	QPSK	1	0	23.83	23.72	23.01	24



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		1	13	23.68	23.55	22.73	24
		1	24	23.44	23.16	22.16	24
		12	0	22.91	22.79	22.02	23
		12	6	22.84	22.75	21.9	23
		12	13	22.69	22.53	21.56	23
		25	0	22.78	22.68	21.83	23
		1	0	22.86	22.89	22.2	23
		1	13	22.77	22.77	21.97	23
		1	24	22.56	22.4	21.38	23
	16QAM	12	0	21.96	21.91	21.15	23
		12	6	21.88	21.87	21.06	22
		12	13	21.73	21.65	20.73	22
		25	0	21.83	21.83	20.94	22
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel	Tungun
Danuwidin	Modulation	KD SIZE	offset	132022	132322	132622	Tune up
		1	0	23.69	23.76	22.75	24
		1	25	23.31	23.33	22.93	24
		1	49	22.63	22.73	22.02	24
	QPSK	25	0	22.56	22.73	21.87	23
		25	13	22.43	22.57	22	23
		25	25	22.02	22.16	21.63	23
10MHz		50	0	22.29	22.46	21.8	23
IUWITZ		1	0	22.83	22.78	21.82	23
		1	25	22.58	22.43	22.14	23
		1	49	21.87	21.69	21.22	23
	16QAM	25	0	21.61	21.87	21.96	23
		25	13	21.47	21.7	21.11	22
		25	25	21.11	21.26	20.77	22
		50	0	21.35	21.59	20.9	22
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel	Tune up
Danawidin	Modulation	IND SIZE	offset	132047	132322	132597	rune up
		1	0	23.68	23.8	22.11	24
		1	38	22.99	23.32	22.95	24
		1	74	22.55	22.55	22.07	24
15MHz	QPSK	36	0	22.49	22.88	21.55	23
		36	18	22.19	22.59	22.02	23
		36	39	21.79	22.08	21.81	23
		75	0	22.06	22.49	21.79	23



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	I	1	0	22.81	22.86	21.48	23
		1	38	22.25	22.41	22.31	23
		1	74	21.85	21.55	21.42	23
	400014	•			1		
	16QAM	36	0	21.53	21.98	21.76	23
		36	18	21.28	21.7	21.19	22
		36	39	20.88	21.13	21.05	22
		75	0	21.09	21.63	20.88	22
Bandwidth	Modulation	DD size	RB	Channel	Channel	Channel	Tungun
Danawiath	Modulation	RB size	offset	132072	132322	132572	Tune up
		1	0	23.62	23.79	23.55	24
		1	50	22.84	23.22	23.23	24
		1	99	22.72	22.78	22.7	24
	QPSK	50	0	22.24	22.89	22.58	23
		50	25	21.89	22.56	22.23	23
		50	50	21.71	21.93	22.34	23
20MHz		100	0	21.8	22.44	21.94	23
ZUIVITZ		1	0	22.89	22.86	21.26	23
		1	50	22.11	22.53	22.4	23
		1	99	21.88	21.25	21.87	23
16QAN	16QAM	50	0	21.3	22.06	21.71	23
		50	25	20.96	21.73	21.37	22
		50	50	20.77	21.05	21.45	22
		100	0	20.91	21.59	21.07	22



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8.1.4 Conducted Power Of Wi-Fi

Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
	1	2412		9.36	10
802.11b	6	2437	1	9.18	10
	11	2462		9.78	10
	1	2412		7.61	8
802.11g	6	2437	6	7.35	8
	11	2462		7.26	8
	1	2412		6.21	7
802.11n HT20 SISO	6	2437	6.5	6.3	7
11120 0100	11	2462		6.46	7
	3	2422		5.3	6
802.11n HT40 SISO	6	2437	13.5	5.29	6
111 10 0100	9	2452		5.5	6

Note:

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



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8.1.5 Conducted Power Of BLE

	BLE_1Mbps			
Modulation	Channel	Frequency(MHz)	Average Conducted Power(dBm)	Tune up (dBm)
	0	2402	4.25	5
GFSK	19	2440	3.34	4
	39	2480	3.01	4

	BLEBLE_2Mb _l	os		
Modulation	Channel	Frequency(MHz)	Average Conducted Power(dBm)	Tune up (dBm)
	0	2402	4.18	5
GFSK	19	2440	3.23	4
	39	2480	3.04	4



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8.2 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph Results refer to Appendix B
- 2) Per 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.

WiFi 2.4G:

1) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.



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8.2.1 SAR Result Of GSM850

	GSM850 SAR Test Record														
Test position	Test mode	Test Ch./Freq	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Powe r Drift (dB)	Conducte d Power (dBm)	Tune up Limit (dBm)	Scale d factor	Scale d SAR (W/kg) 1-g	Scale d SAR (W/kg) 10-g	Liqui d Temp	SAR limit (W/kg		
				E	ctremity Te	est data(S	Separate 0mm)							
Front side	GPRS 3TS	128/824. 2	1:2.77	1.01	0.647	0.01	32.0	33.0	1.259	1.272	0.815	22.1	4		
Back side	GPRS 3TS	128/824. 2	1:2.77	1.36	0.819	-0.09	32.0	33.0	1.259	1.712	1.031	22.1	4		
Left side	GPRS 3TS	128/824. 2	1:2.77	0.144	0.089	0.06	32.0	33.0	1.259	0.181	0.112	22.1	4		
Right side	GPRS 3TS	128/824. 2	1:2.77	0.636	0.393	0.04	32.0	33.0	1.259	0.801	0.495	22.1	4		
Top side	GPRS 3TS	128/824. 2	1:2.77	0.181	0.106	0.08	32.0	33.0	1.259	0.228	0.133	22.1	4		
Bottom side	GPRS 3TS	128/824. 2	1:2.77	0.098	0.045	0.06	32.0	33.0	1.259	0.123	0.057	22.1	4		
			Extrem	nity Test d	ata at the	worst cas	se with SIM2(S	Separate (0mm)						
Back side	GPRS 3TS	128/824. 2	1:2.07 5	1.32	0.803	0.02	32.0	33.0	1.259	1.662	1.011	22.3	4		



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8.2.2 SAR Result Of GSM1900

	GSM1900 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)	Conducte d Power (dBm)	Tune up Limit (dBm)	Scale d factor	Scale d SAR (W/kg) 1-g	Scale d SAR (W/kg) 10-g	Liqui d Temp	SAR limit (W/kg)		
Extremity Test data(Separate 0mm)															
Front side GPRS 3TS 661/1880 1:2.77 0.973 0.507 -0.15 29.3 30.0 1.175 1.143 0.596 22.3 4															
Back side	GPRS 3TS	661/1880	1:2.77	3.87	1.880	-0.07	29.3	30.0	1.175	4.547	2.209	22.3	4		
Left side	GPRS 3TS	661/1880	1:2.77	0.172	0.087	-0.05	29.3	30.0	1.175	0.202	0.102	22.3	4		
Right side	GPRS 3TS	661/1880	1:2.77	1.28	0.644	0.08	29.3	30.0	1.175	1.504	0.757	22.3	4		
Top side	GPRS 3TS	661/1880	1:2.77	0.23	0.126	-0.08	29.3	30.0	1.175	0.270	0.148	22.3	4		
Bottom side	GPRS 3TS	661/1880	1:2.77	0.198	0.107	-0.19	29.3	30.0	1.175	0.233	0.126	22.3	4		
Back side	GPRS 3TS	512/1850. 2	1:2.77	3.99	1.940	-0.09	29.29	30.0	1.178	4.699	2.285	22.3	4		
Back side	GPRS 3TS	810/1909. 8	1:2.77	4.29	2.180	-0.07	29.1	30.0	1.230	5.278	2.682	22.3	4		
		<u>-</u>	Extrer	nity Test o	data at the	worst case	with SIM2(Se	parate 0n	nm)						
Back side	GPRS 3TS	810/1909. 8	1:2.07 5	4.16	2.090	0.03	29.1	30.0	1.230	5.118	2.571	22.3	4		



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8.2.3 SAR Result Of WCDMA Band II

	WCDMA Band II 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)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp	SAR limit (W/kg)		
	Extremity Test data(Separate 0mm)														
Front side	RMC	9538/1907.6	1:1	1.09	0.573	0.17	23.76	24	1.057	1.152	0.606	22.3	4		
Back side	RMC	9538/1907.6	1:1	3.8	1.850	-0.17	23.76	24	1.057	4.016	1.955	22.3	4		
Left side	RMC	9538/1907.6	1:1	0.097	0.054	0.12	23.76	24	1.057	0.103	0.057	22.3	4		
Right side	RMC	9538/1907.6	1:1	1.4	0.734	0.16	23.76	24	1.057	1.480	0.776	22.3	4		
Top side	RMC	9538/1907.6	1:1	0.227	0.123	-0.07	23.76	24	1.057	0.240	0.130	22.3	4		
Bottom side	RMC	9538/1907.6	1:1	0.175	0.098	-0.04	23.76	24	1.057	0.185	0.104	22.3	4		
			E	xtremity T	est data at	the worst	case with SIM2	(Separate	0mm)						
Back side	RMC	9538/1907.6	1:1	3.72	1.790	-0.06	23.76	24	1.057	3.931	1.892	22.3	4		



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8.2.4 SAR Result Of WCDMA Band IV

	WCDMA Band IV 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)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp	SAR limit (W/kg)		
					Extremity T	est data(S	Separate 0mm)								
Front side	RMC	1312/1712.4	1:1	0.512	0.268	-0.16	24.24	25	1.191	0.610	0.319	22.2	4		
Back side	RMC	1312/1712.4	1:1	3.8	1.900	0.06	24.24	25	1.191	4.527	2.263	22.2	4		
Left side	RMC	1312/1712.4	1:1	0.045	0.020	0.11	24.24	25	1.191	0.053	0.024	22.2	4		
Right side	RMC	1312/1712.4	1:1	0.523	0.285	0.14	24.24	25	1.191	0.623	0.340	22.2	4		
Top side	RMC	1312/1712.4	1:1	0.2	0.099	-0.11	24.24	25	1.191	0.238	0.118	22.2	4		
Bottom side	RMC	1312/1712.4	1:1	0.076	0.034	-0.02	24.24	25	1.191	0.091	0.041	22.2	4		
Back side	RMC	1412/1732.4	1:1	2.69	1.440	0.11	23.02	25	1.578	4.244	2.272	22.2	4		
Back side	RMC	1513/1752.6	1:1	4.12	2.110	-0.09	23.48	25	1.419	5.847	2.994	22.2	4		
	Extremity Test data at the worst case with SIM2(Separate 0mm)														
Back side	RMC	1513/1752.6	1:1	4.06	2.030	0.16	23.48	25	1.419	5.761	2.881	22.2	4		



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8.2.5 SAR Result Of WCDMA Band V

	WCDMA Band V 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)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp	SAR limit (W/kg)		
	Extremity Test data(Separate 0mm)														
Front side	RMC	4182/836.4	1:1	0.426	0.275	0.17	23.75	24	1.059	0.451	0.291	22.1	4		
Back side	RMC	4182/836.4	1:1	0.731	0.471	-0.07	23.75	24	1.059	0.774	0.499	22.1	4		
Left side	RMC	4182/836.4	1:1	0.077	0.048	-0.07	23.75	24	1.059	0.081	0.051	22.1	4		
Right side	RMC	4182/836.4	1:1	0.301	0.190	-0.14	23.75	24	1.059	0.319	0.201	22.1	4		
Top side	RMC	4182/836.4	1:1	0.079	0.048	-0.16	23.75	24	1.059	0.083	0.051	22.1	4		
Bottom side	RMC	4182/836.4	1:1	0.035	0.019	-0.04	23.75	24	1.059	0.037	0.020	22.1	4		
				Extremit	y Test data a	t the worst o	case with SIM2((Separate (Omm)						
Back side	RMC	4182/836.4	1:1	0.726	0.462	0.13	23.75	24	1.059	0.769	0.489	22.1	4		



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8.2.6 SAR Result Of LTE Band 2

	LTE Band 2 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)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)	
					Extremity T	est data(S	eparate 0mm)							
Front side	20M_QPSK 1RB_50	18900/1880	1:1	1.16	0.652	0.02	24.53	25	1.114	1.293	0.727	22.3	4	
Front side	20M_QPSK 50RB_25	18900/1880	1:1	0.793	0.444	0.01	23.38	24	1.153	0.915	0.512	22.3	4	
Back side	20M_QPSK 1RB_50	18900/1880	1:1	3.49	1.410	-0.07	24.53	25	1.114	3.889	1.571	22.3	4	
Back side	20M_QPSK 50RB_25	18900/1880	1:1	3.26	1.250	-0.01	23.38	24	1.153	3.760	1.442	22.3	4	
Left side	20M_QPSK 1RB_50	18900/1880	1:1	0.364	0.165	-0.03	24.53	25	1.114	0.406	0.184	22.3	4	
Left side	20M_QPSK 50RB_25	18900/1880	1:1	0.325	0.132	0.1	23.38	24	1.153	0.375	0.152	22.3	4	
Right side	20M_QPSK 1RB_50	18900/1880	1:1	2.42	0.975	0.17	24.53	25	1.114	2.697	1.086	22.3	4	
Right side	20M_QPSK 50RB_25	18900/1880	1:1	2.18	0.774	-0.06	23.38	24	1.153	2.515	0.893	22.3	4	
Top side	20M_QPSK 1RB_50	18900/1880	1:1	0.233	0.107	-0.13	24.53	25	1.114	0.260	0.119	22.3	4	
Top side	20M_QPSK 50RB_25	18900/1880	1:1	0.193	0.095	0.06	23.38	24	1.153	0.223	0.110	22.3	4	
Bottom side	20M_QPSK 1RB_50	18900/1880	1:1	0.106	0.086	-0.12	24.53	25	1.114	0.118	0.096	22.3	4	
Bottom side	20M_QPSK 50RB_25	18900/1880	1:1	0.085	0.057	-0.1	23.38	24	1.153	0.098	0.066	22.3	4	
			Extr	emity Test	data at the	worst cas	e with SIM2(Se	parate 0m	nm)					
Back side	20M_QPSK 1RB_50	18900/1880	1:1	3.36	1.320	-0.07	24.53	25	1.114	3.744	1.471	22.3	4	



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8.2.7 SAR Result Of LTE Band 4

					LTE Bar	nd 4 SAR T	est 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)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
					Extremity T	est data(S	eparate 0mm)						
Front side	20M_QPSK 1RB_0	20050/1720	1:1	0.352	0.188	-0.08	23.11	23.5	1.094	0.385	0.206	22.2	4
Front side	20M_QPSK 50RB_0	20050/1720	1:1	0.269	0.144	0.19	22.13	22.5	1.089	0.293	0.157	22.2	4
Back side	20M_QPSK 1RB_0	20050/1720	1:1	2.29	1.060	-0.09	23.11	23.5	1.094	2.505	1.160	22.2	4
Back side	20M_QPSK 50RB_0	20050/1720	1:1	2.19	1.020	0.09	22.13	22.5	1.089	2.385	1.111	22.2	4
Left side	20M_QPSK 1RB_0	20050/1720	1:1	0.026	0.014	-0.14	23.11	23.5	1.094	0.028	0.016	22.2	4
Left side	20M_QPSK 50RB_0	20050/1720	1:1	0.024	0.014	-0.06	22.13	22.5	1.089	0.026	0.015	22.2	4
Right side	20M_QPSK 1RB_0	20050/1720	1:1	0.431	0.225	-0.09	23.11	23.5	1.094	0.471	0.246	22.2	4
Right side	20M_QPSK 50RB_0	20050/1720	1:1	0.344	0.178	0.06	22.13	22.5	1.089	0.375	0.194	22.2	4
Top side	20M_QPSK 1RB_0	20050/1720	1:1	0.239	0.090	-0.04	23.11	23.5	1.094	0.261	0.099	22.2	4
Top side	20M_QPSK 50RB 0	20050/1720	1:1	0.228	0.087	0.13	22.13	22.5	1.089	0.248	0.095	22.2	4
Bottom side	20M_QPSK 1RB_0	20050/1720	1:1	0.046	0.018	-0.08	23.11	23.5	1.094	0.050	0.020	22.2	4
Bottom side	20M_QPSK 50RB_0	20050/1720	1:1	0.031	0.012	-0.07	22.13	22.5	1.089	0.034	0.013	22.2	4
			Ex	tremity Tes	t data at the	worst case	e with SIM2(Se	parate 0m	m)				
Back side	20M_QPSK 1RB_0	20050/1720	1:1	2.06	0.989	0.02	23.11	23.5	1.094	2.254	1.082	22.2	4



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8.2.8 SAR Result Of LTE Band 5

					LTE Band	5 SAR T	est 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)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
				E	xtremity Te	st data(Se	eparate 0mm)						
Front side	10M_QPSK 1RB_0	20525/836.5	1:1	0.519	0.340	0.19	23.17	23.5	1.079	0.560	0.367	22.1	4
Front side	10M_QPSK 25RB_13	20525/836.5	1:1	0.418	0.266	-0.11	22.28	22.5	1.052	0.440	0.280	22.1	4
Back side	10M_QPSK 1RB_0	20525/836.5	1:1	0.772	0.489	-0.08	23.17	23.5	1.079	0.833	0.528	22.1	4
Back side	10M_QPSK 25RB 13	20525/836.5	1:1	0.574	0.259	-0.06	22.28	22.5	1.052	0.604	0.272	22.1	4
Left side	10M_QPSK 1RB_0	20525/836.5	1:1	0.036	0.012	0.13	23.17	23.5	1.079	0.039	0.013	22.1	4
Left side	10M_QPSK 25RB_13	20525/836.5	1:1	0.029	0.008	-0.1	22.28	22.5	1.052	0.031	0.008	22.1	4
Right side	10M_QPSK 1RB_0	20525/836.5	1:1	0.497	0.280	-0.19	23.17	23.5	1.079	0.536	0.302	22.1	4
Right side	10M_QPSK 25RB_13	20525/836.5	1:1	0.365	0.210	0.18	22.28	22.5	1.052	0.384	0.221	22.1	4
Top side	10M_QPSK 1RB_0	20525/836.5	1:1	0.239	0.090	0.15	23.17	23.5	1.079	0.258	0.097	22.1	4
Top side	10M_QPSK 25RB 13	20525/836.5	1:1	0.124	0.066	0.18	22.28	22.5	1.052	0.130	0.070	22.1	4
Bottom side	10M_QPSK 1RB_0	20525/836.5	1:1	0.028	0.008	-0.03	23.17	23.5	1.079	0.030	0.009	22.1	4
Bottom side	10M_QPSK 25RB_13	20525/836.5	1:1	0.022	0.006	0.09	22.28	22.5	1.052	0.023	0.006	22.1	4
	_	•	Extre	mity Test	data at the	worst case	with SIM2(Sep	parate 0m	m)				
Back side	10M_QPSK 1RB_0	20525/836.5	1:1	0.768	0.482	0.02	23.17	23.5	1.079	0.829	0.520	22.1	4



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8.2.9 SAR Result Of LTE Band 7

	LTE Band 7 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)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
				Ex	tremity Te	st data(Se	parate 0mm)						
Front side	20M_QPSK 1RB_0	21100/2535.5	1:1	2.19	1.110	-0.03	23.41	23.5	1.021	2.236	1.133	22.1	4
Front side	20M_QPSK 50RB_25	21100/2535.5	1:1	2.13	1.080	-0.02	22.45	22.5	1.012	2.155	1.093	22.1	4
Back side	20M_QPSK 1RB_0	21100/2535.5	1:1	3.05	1.550	-0.03	23.41	23.5	1.021	3.114	1.582	22.1	4
Back side	20M_QPSK 50RB_25	21100/2535.5	1:1	3.01	1.530	-0.14	22.45	22.5	1.012	3.045	1.548	22.1	4
Left side	20M_QPSK 1RB_0	21100/2535.5	1:1	0.315	0.149	-0.04	23.41	23.5	1.021	0.322	0.152	22.1	4
Left side	20M_QPSK 50RB_25	21100/2535.5	1:1	0.287	0.122	0.13	22.45	22.5	1.012	0.290	0.123	22.1	4
Right side	20M_QPSK 1RB_0	21100/2535.5	1:1	2.31	0.713	-0.07	23.41	23.5	1.021	2.358	0.728	22.1	4
Right side	20M_QPSK 50RB_25	21100/2535.5	1:1	2.03	0.697	-0.07	22.45	22.5	1.012	2.054	0.705	22.1	4
Top side	20M_QPSK 1RB_0	21100/2535.5	1:1	0.314	0.163	-0.17	23.41	23.5	1.021	0.321	0.166	22.1	4
Top side	20M_QPSK 50RB_25	21100/2535.5	1:1	0.269	0.148	-0.18	22.45	22.5	1.012	0.272	0.150	22.1	4
Bottom side	20M_QPSK 1RB_0	21100/2535.5	1:1	0.101	0.068	0.13	23.41	23.5	1.021	0.103	0.069	22.1	4
Bottom side	20M_QPSK 50RB_25	21100/2535.5	1:1	0.076	0.034	0.08	22.45	22.5	1.012	0.077	0.034	22.1	4
			Extrem	nity Test da	ata at the v	vorst case	with SIM2(Sep	parate 0mr	m)				
Back side	20M_QPSK 1RB_0	21100/2535.5	1:1	2.94	1.460	0.01	23.41	23.5	1.021	3.002	1.491	22.1	1.6



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8.2.10 SAR Result Of LTE Band 40a

	LTE Band 40a 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)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
					Extremity T	est data(S	eparate 0mm)						
Front side	10M_QPSK 1RB_0	38750/2310	1:1	1.24	0.636	0.14	23.00	23.50	1.122	1.391	0.714	22.1	4
Front side	10M_QPSK 25RB_0	38750/2310	1:1	0.948	0.484	0.11	21.72	22.00	1.067	1.011	0.516	22.1	4
Back side	10M_QPSK 1RB_0	38750/2310	1:1	1.77	0.979	0.09	23.00	23.50	1.122	1.986	1.098	22.1	4
Back side	10M_QPSK 25RB_0	38750/2310	1:1	1.45	0.823	-0.04	21.72	22.00	1.067	1.547	0.878	22.1	4
Left side	10M_QPSK 1RB_0	38750/2310	1:1	0.136	0.096	0.15	23.00	23.50	1.122	0.153	0.108	22.1	4
Left side	10M_QPSK 25RB_0	38750/2310	1:1	0.102	0.065	-0.04	21.72	22.00	1.067	0.109	0.069	22.1	4
Right side	10M_QPSK 1RB_0	38750/2310	1:1	1.22	0.579	0.17	23.00	23.50	1.122	1.369	0.650	22.1	4
Right side	10M_QPSK 25RB_0	38750/2310	1:1	0.895	0.441	-0.04	21.72	22.00	1.067	0.955	0.470	22.1	4
Top side	10M_QPSK 1RB_0	38750/2310	1:1	0.167	0.076	0.19	23.00	23.50	1.122	0.187	0.085	22.1	4
Top side	10M_QPSK 25RB_0	38750/2310	1:1	0.11	0.053	-0.02	21.72	22.00	1.067	0.117	0.057	22.1	4
Bottom side	10M_QPSK 1RB_0	38750/2310	1:1	0.086	0.052	-0.05	23.00	23.50	1.122	0.096	0.058	22.1	4
Bottom side	10M_QPSK 25RB_0	38750/2310	1:1	0.071	0.039	0.09	21.72	22.00	1.067	0.076	0.042	22.1	4
			Ex	tremity Tes	t data at the	e worst cas	e with SIM2(Se	parate 0m	ım)				
Back side	10M_QPSK 1RB_0	38750/2310	1:1	1.68	0.968	-0.04	23.00	23.50	1.122	1.885	1.086	22.1	4



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8.2.11 SAR Result Of LTE Band 40b

	LTE Band 40b 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)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
					Extremity T	est data(S	eparate 0mm)						
Front side	10M_QPSK 1RB_25	39200/2355	1:1	1.15	0.593	0.19	23.08	23.5	1.102	1.267	0.653	22.1	4
Front side	10M_QPSK 25RB_13	39200/2355	1:1	1	0.526	-0.08	22.23	22.5	1.064	1.064	0.560	22.1	4
Back side	10M_QPSK 1RB_25	39200/2355	1:1	1.99	1.030	0.05	23.08	23.5	1.102	2.192	1.135	22.1	4
Back side	10M_QPSK 25RB_13	39200/2355	1:1	1.57	0.838	-0.1	22.23	22.5	1.064	1.671	0.892	22.1	4
Left side	10M_QPSK 1RB_25	39200/2355	1:1	0.126	0.083	0.1	23.08	23.5	1.102	0.139	0.091	22.1	4
Left side	10M_QPSK 25RB_13	39200/2355	1:1	0.098	0.064	0.03	22.23	22.5	1.064	0.104	0.068	22.1	4
Right side	10M_QPSK 1RB_25	39200/2355	1:1	1.18	0.580	-0.1	23.08	23.5	1.102	1.300	0.639	22.1	4
Right side	10M_QPSK 25RB_13	39200/2355	1:1	0.896	0.439	-0.12	22.23	22.5	1.064	0.953	0.467	22.1	4
Top side	10M_QPSK 1RB_25	39200/2355	1:1	0.16	0.086	0.15	23.08	23.5	1.102	0.176	0.094	22.1	4
Top side	10M_QPSK 25RB_13	39200/2355	1:1	0.159	0.079	-0.07	22.23	22.5	1.064	0.169	0.084	22.1	4
Bottom side	10M_QPSK 1RB_25	39200/2355	1:1	0.099	0.066	-0.15	23.08	23.5	1.102	0.109	0.073	22.1	4
Bottom side	10M_QPSK 25RB_13	39200/2355	1:1	0.085	0.045	0.17	22.23	22.5	1.064	0.090	0.048	22.1	4
	_		Ex	tremity Tes	t data at the	worst cas	e with SIM2(Se	parate 0m	ım)				
Back side	10M_QPSK 1RB_25	39200/2355	1:1	1.86	0.996	0.03	23.08	23.5	1.102	2.049	1.097	22.1	4



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8.2.12 SAR Result Of LTE Band 66

	LTE Band 66 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)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
				E	Extremity To	est data(Se	eparate 0mm)						
Front side	20M_QPSK 1RB_0	132322/1745	1:1	0.489	0.282	0.05	23.79	24	1.050	0.513	0.296	22.2	4
Front side	20M_QPSK 50RB_0	132322/1745	1:1	0.441	0.255	-0.15	22.89	23	1.026	0.452	0.262	22.2	4
Back side	20M_QPSK 1RB_0	132322/1745	1:1	3.29	1.720	-0.12	23.79	24	1.050	3.453	1.805	22.2	4
Back side	20M_QPSK 50RB_0	132322/1745	1:1	2.96	1.530	0.07	22.89	23	1.026	3.036	1.569	22.2	4
Left side	20M_QPSK 1RB_0	132322/1745	1:1	0.032	0.019	-0.07	23.79	24	1.050	0.034	0.020	22.2	4
Left side	20M_QPSK 50RB_0	132322/1745	1:1	0.028	0.016	0.16	22.89	23	1.026	0.029	0.016	22.2	4
Right side	20M_QPSK 1RB_0	132322/1745	1:1	0.489	0.260	0.01	23.79	24	1.050	0.513	0.273	22.2	4
Right side	20M_QPSK 50RB_0	132322/1745	1:1	0.47	0.250	0.02	22.89	23	1.026	0.482	0.256	22.2	4
Top side	20M_QPSK 1RB_0	132322/1745	1:1	0.171	0.086	0.09	23.79	24	1.050	0.179	0.090	22.2	4
Top side	20M_QPSK 50RB_0	132322/1745	1:1	0.167	0.083	0.15	22.89	23	1.026	0.171	0.086	22.2	4
Bottom side	20M_QPSK 1RB_0	132322/1745	1:1	0.055	0.021	-0.12	23.79	24	1.050	0.058	0.022	22.2	4
Bottom side	20M_QPSK 50RB_0	132322/1745	1:1	0.032	0.016	0.04	22.89	23	1.026	0.033	0.016	22.2	4
			Extre	emity Test	data at the	worst case	e with SIM2(Se	parate 0m	m)				
Back side	20M_QPSK 1RB_0	132322/1745	1:1	3.16	1.650	-0.03	23.79	24	1.050	3.317	1.732	22.2	4



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8.2.13SAR Result Of 2.4GHz Wi-Fi

	Wi-Fi 2.4G SAR Test Record													
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)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.		
					Extrem	nity Test data	(Separate 0r	mm)						
Front side	802.11b	11/2462	99.07%	1.009	0.034	0.017	0.06	9.78	10.00	1.052	0.018	22.0		
Back side	802.11b	11/2462	99.07%	1.009	0.070	0.033	0.03	9.78	10.00	1.052	0.035	22.0		
Left side	802.11b	11/2462	99.07%	1.009	0.026	0.010	0.08	9.78	10.00	1.052	0.011	22.0		
Right side	802.11b	11/2462	99.07%	1.009	0.013	0.007	-0.13	9.78	10.00	1.052	0.007	22.0		
Top side	802.11b	11/2462	99.07%	1.009	0.009	0.001	0.06	9.78	10.00	1.052	0.001	22.0		
Bottom side	802.11b	11/2462	99.07%	1.009	0.048	0.019	0.07	9.78	10.00	1.052	0.020	22.0		



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8.2.14SAR Result Of Bluetooth

	Bluetooth SAR Test Record														
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)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.			
					Extren	nity Test data	(Separate 0	mm)							
Front side	GFSK	0/2402	83.99%	1.191	0.029	0.009	-0.09	4.25	5.00	1.189	0.013	22.0			
Back side	GFSK	0/2402	83.99%	1.191	0.047	0.018	0.02	4.25	5.00	1.189	0.025	22.0			
Left side	GFSK	0/2402	83.99%	1.191	0.009	0.001	0.05	4.25	5.00	1.189	0.001	22.0			
Right side	GFSK	0/2402	83.99%	1.191	0.012	0.006	-0.14	4.25	5.00	1.189	0.008	22.0			
Top side	GFSK	0/2402	83.99%	1.191	0.008	0.001	0.06	4.25	5.00	1.189	0.001	22.0			
Bottom side	GFSK	0/2402	83.99%	1.191	0.035	0.010	0.08	4.25	5.00	1.189	0.014	22.0			



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8.3 Multiple Transmitter Evaluation

8.3.1 Simultaneous SAR SAR test evaluation

Simultaneous Transmission

NO.	Simultaneous Transmission Configuration	Extremity
1	WWAN + WIFI 2.4GHz	Yes
3	WWAN + BT	Yes
4	WIFI + BT (They share the same antenna and cannot transmit at the same time by design.)	No

Simultaneous Transmission SAR Summation Scenario for Extremity

Ominantaricous	11411311113310	II SAK Sullillati	on oochano i	or Extremity			
WWAN Band	Exposure position	①MAX. WWAN SAR (W/kg)	②MAX. WLAN2.4G SAR (W/kg)	③MAX BT SAR (W/kg)	Summed SAR ①+②	Summed SAR ①+③	Volume scan
	Front	0.815	0.018	0.013	0.833	0.828	NO
	Back	1.031	0.035	0.025	1.066	1.056	NO
0014050	Left	0.112	0.011	0.001	0.123	0.113	NO
GSM850	Right	0.495	0.007	0.008	0.502	0.503	NO
	Тор	0.133	0.001	0.001	0.134	0.134	NO
	Bottom	0.057	0.02	0.014	0.077	0.071	NO
	Front	0.596	0.018	0.013	0.614	0.609	NO
	Back	2.682	0.035	0.025	2.717	2.707	NO
00144000	Left	0.102	0.011	0.001	0.113	0.103	NO
GSM1900	Right	0.757	0.007	0.008	0.764	0.765	NO
	Тор	0.148	0.001	0.001	0.149	0.149	NO
	Bottom	0.126	0.02	0.014	0.146	0.140	NO
	Front	0.606	0.018	0.013	0.624	0.619	NO
	Back	1.955	0.035	0.025	1.990	1.980	NO
WCDMA	Left	0.057	0.011	0.001	0.068	0.058	NO
Band II	Right	0.776	0.007	0.008	0.783	0.784	NO
	Тор	0.13	0.001	0.001	0.131	0.131	NO
	Bottom	0.104	0.02	0.014	0.124	0.118	NO
	Front	0.319	0.018	0.013	0.337	0.332	NO
WCDMA	Back	2.994	0.035	0.025	3.029	3.019	NO
Band IV	Left	0.024	0.011	0.001	0.035	0.025	NO
	Right	0.34	0.007	0.008	0.347	0.348	NO



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	Тор	0.118	0.001	0.001	0.119	0.119	NO
	Bottom	0.041	0.02	0.014	0.061	0.055	NO
	Front	0.291	0.018	0.013	0.309	0.304	NO
	Back	0.499	0.035	0.025	0.534	0.524	NO
WCDMA	Left	0.051	0.011	0.001	0.062	0.052	NO
Band V	Right	0.201	0.007	0.008	0.208	0.209	NO
	Тор	0.051	0.001	0.001	0.052	0.052	NO
<u> </u>	Bottom	0.02	0.02	0.014	0.040	0.034	NO
	Front	0.727	0.018	0.013	0.745	0.740	NO
	Back	1.571	0.035	0.025	1.606	1.596	NO
LTE D 4.0	Left	0.184	0.011	0.001	0.195	0.185	NO
LTE Band 2	Right	1.086	0.007	0.008	1.093	1.094	NO
	Тор	0.119	0.001	0.001	0.120	0.120	NO
<u> </u>	Bottom	0.096	0.02	0.014	0.116	0.110	NO
	Front	0.206	0.018	0.013	0.224	0.219	NO
<u> </u>	Back	1.16	0.035	0.025	1.195	1.185	NO
1.75.0	Left	0.016	0.011	0.001	0.027	0.017	NO
LTE Band 4	Right	0.246	0.007	0.008	0.253	0.254	NO
<u> </u>	Тор	0.099	0.001	0.001	0.100	0.100	NO
<u> </u>	Bottom	0.02	0.02	0.014	0.040	0.034	NO
	Front	0.367	0.018	0.013	0.385	0.380	NO
<u> </u>	Back	0.528	0.035	0.025	0.563	0.553	NO
LTE D 4.5	Left	0.013	0.011	0.001	0.024	0.014	NO
LTE Band 5	Right	0.302	0.007	0.008	0.309	0.310	NO
	Тор	0.097	0.001	0.001	0.098	0.098	NO
	Bottom	0.009	0.02	0.014	0.029	0.023	NO
	Front	1.133	0.018	0.013	1.151	1.146	NO
	Back	1.582	0.035	0.025	1.617	1.607	NO
LTE D 4.7	Left	0.152	0.011	0.001	0.163	0.153	NO
LTE Band 7	Right	0.728	0.007	0.008	0.735	0.736	NO
<u> </u>	Тор	0.166	0.001	0.001	0.167	0.167	NO
<u> </u>	Bottom	0.069	0.02	0.014	0.089	0.083	NO
	Front	0.714	0.018	0.013	0.732	0.727	NO
	Back	1.098	0.035	0.025	1.133	1.123	NO
LTC Decid 40-	Left	0.108	0.011	0.001	0.119	0.109	NO
LTE Band 40a	Right	0.65	0.007	0.008	0.657	0.658	NO
	Тор	0.085	0.001	0.001	0.086	0.086	NO
ļ	Bottom	0.058	0.02	0.014	0.078	0.072	NO
LTE D- 140	Front	0.653	0.018	0.013	0.671	0.666	NO
LTE Band 40b	Back	1.135	0.035	0.025	1.170	1.160	NO



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	Left	0.091	0.011	0.001	0.102	0.092	NO
	Right	0.639	0.007	0.008	0.646	0.647	NO
	Тор	0.094	0.001	0.001	0.095	0.095	NO
	Bottom	0.073	0.02	0.014	0.093	0.087	NO
	Front	0.296	0.018	0.013	0.314	0.309	NO
	Back	1.805	0.035	0.025	1.840	1.830	NO
LTE Band 66	Left	0.02	0.011	0.001	0.031	0.021	NO
LIE Ballu 00	Right	0.273	0.007	0.008	0.280	0.281	NO
	Тор	0.09	0.001	0.001	0.091	0.091	NO
	Bottom	0.022	0.02	0.014	0.042	0.036	NO



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9 **Equipment list**

Test Platform	SPEAG DASY5 Professional
Location	SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch
Software Reference	DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

	Hardware Reference											
	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration						
\boxtimes	PC	DELL	Core(TM)i3-6100 3.7GHz	7LLVLG2	N/A	N/A						
\boxtimes	Signal Generator	Agilent	N5173B	MY53270267	2022/07/12	2023/07/11						
\boxtimes	S-Parameter Network Analyzer	Agilent	E5071C	MY46527453	2022/06/21	2023/06/20						
\boxtimes	DAK-3.5 probe	SPEAG	DAK-3.5	1102	N/A	N/A						
\boxtimes	Power sensor	KEYSIGHT	U2021XA	MY57110007	2022/07/12	2023/7/11						
\boxtimes	universal Radio communication tester	R&S	CMW500	154501	2023/03/20	2024/03/19						
\boxtimes	DAE	SPEAG	DAE4	760	2022/06/06	2023/06/05						
\boxtimes	E-field PROBE	SPEAG	EX3DV4	3836	2022/06/27	2023/06/26						
\boxtimes	Dipole	SPEAG	D835V2	4d042	2022/06/8	2025/06/07						
\boxtimes	Dipole	SPEAG	D1800V2	254	2022/06/16	2025/06/15						
\boxtimes	Dipole	SPEAG	D1900V2	5d136	2022/06/07	2025/06/06						
\boxtimes	Dipole	SPEAG	D2300V2	1096	2022/03/31	2025/03/31						
\boxtimes	Dipole	SPEAG	D2450V2	955	2022/06/06	2025/06/05						
\boxtimes	Dipole	SPEAG	D2600V2	1158	2022/03/31	2025/03/30						
\boxtimes	Electro Thermometer	MITIR	N/A	N/A	2022/06/02	2023/06/01						
\boxtimes	Amplifier	Mini-circuits	ZVE-3W-83+	857501833	N/A	N/A						
\boxtimes	Amplifier	Mini-circuits	ZHL-42W	A0950002	N/A	N/A						
\boxtimes	3db ATTENUATOR	SHX	SMA-3dB-6G	12021302	N/A	N/A						
\boxtimes	DUMMY PROBE	SPEAG	DP_2	SPDP2001AA	N/A	N/A						
\boxtimes	Dual Directional Coupler	Agilent	772D	MY46151275	N/A	N/A						
\boxtimes	SAM PHANTOM (ELI4 v4.0)	SPEAG	QDOVA001BB	1102	N/A	N/A						
\boxtimes	ELI V8.0	SPEAG	QDOVA004AA	2062	N/A	N/A						
\boxtimes	Twin SAM Phantom	SPEAG	QD000P40CD	1673	N/A	N/A						
	Twin Phantom	SPEAG	QD000P40CB	1438	N/A	N/A						
\boxtimes	ROBOT KRC	SPEAG	CS8	SP1/D/211/421/00	N/A	N/A						
\boxtimes	LIQUID	ANTENNESSA	41/05 OCP9	00425167	N/A	N/A						



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CALIBRATION KIT

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

All measurement facilities used to collect the measurement data are located at

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10 Calibration certificate

Please see the Appendix C

Photographs 11

Please see the Appendix D



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Appendix A: Detailed System Check Results

The plots of worse case are showing as followings.



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Date: 2023/5/16

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

SystemPerformanceCheck-D835

DUT: Dipole 835 MHz; Type: D835V2; Serial:4d042

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; σ = 0.916 S/m; ε_r = 42.052; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3836; ConvF(8.99, 8.99, 8.99); Calibrated: 2022/6/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn760; Calibrated: 2022/6/6

Phantom: SAM2; Type: QD000P40CD; Serial: TP:1673

Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

System Performance Check at Frequencies Low 1 GHz/d=15mm, Pin=250 mW, dist=3.0mm (EX-Probe)/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

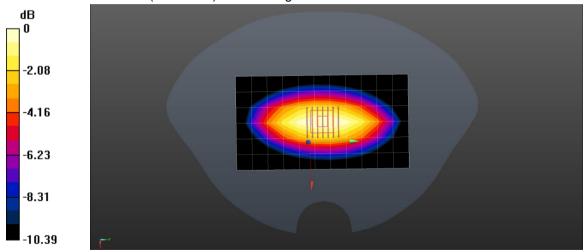
Maximum value of SAR (measured) = 3.35 W/kg

System Performance Check at Frequencies Low 1 GHz/d=15mm, Pin=250 mW, dist=3.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 62.474 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 3.65 W/kg

SAR(1 g) = 2.36 W/kg; SAR(10 g) = 1.58 W/kgMaximum value of SAR (measured) = 3.10 W/kg



0 dB = 3.10 W/kg = 4.91 dBW/kg



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Date: 2023/5/12

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

SystemPerformanceCheck-D1800

DUT: Dipole 1800 MHz; Type: D1800V2; Serial:254

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1800 MHz; σ = 1.383 S/m; ε_r = 39.873; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3836; ConvF(8.02, 8.02, 8.02); Calibrated: 2022/6/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn760; Calibrated: 2022/6/6

Phantom: SAM2; Type: QD000P40CD; Serial: TP:1673

Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (EX-

Probe)/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 11.1 W/kg

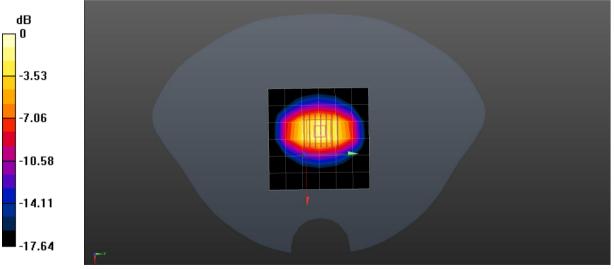
System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (EX-

Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 106.1 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 20.1 W/kg

SAR(1 g) = 9.88 W/kg; SAR(10 g) = 5.19 W/kgMaximum value of SAR (measured) = 15.6 W/kg



0 dB = 15.6 W/kg = 11.93 dBW/kg



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中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



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Date: 2023/5/10

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

System Performance Check 1900 MHz

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d136

Communication System: CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; $\sigma = 1.41 \text{ S/m}$; $\epsilon_r = 40.089$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3836; ConvF(7.65, 7.65, 7.65); Calibrated: 2022/6/27;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn760: Calibrated: 2022/6/6

Phantom: SAM2; Type: QD000P40CD; Serial: TP:1673

Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

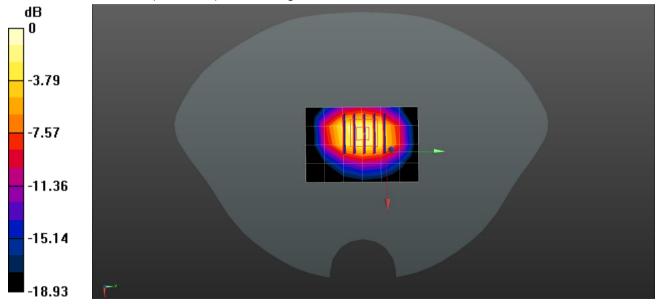
Body/d=10mm, Pin=250mW/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 10.0 W/kg

Body/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 75.458 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 20.1 W/kg

SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.19 W/kgMaximum value of SAR (measured) = 13.5 W/kg



0 dB = 13.5 W/kg = 11.30 dBW/kg



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Date: 2023/5/15

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

System Performance Check- D2300

DUT: Dipole 2300 MHz; Type: D2300V2; Serial: D2300V2 - SN:1096

Communication System: CW (0); Frequency: 2300 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2300 MHz; $\sigma = 1.702 \text{ S/m}$; $\varepsilon_r = 39.558$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3836; ConvF(7.57, 7.57, 7.57); Calibrated: 2022/6/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn760; Calibrated: 2022/6/6

Phantom: SAM2; Type: QD000P40CD; Serial: TP:1673

Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=2.0mm (EX-

Probe)/Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 9.72 W/kg

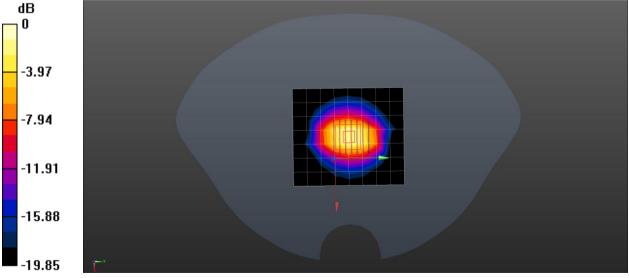
System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=2.0mm (EX-

Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 90.040 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 17.6 W/kg

SAR(1 g) = 11.6 W/kg; SAR(10 g) = 5.61 W/kgMaximum value of SAR (measured) = 13.3 W/kg



0 dB = 13.3 W/kg = 11.24 dBW/kg



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Date: 2023/5/19

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

System Performance Check 2450MHz

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 955

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2450 MHz; $\sigma = 1.817 \text{ S/m}$; $\varepsilon_r = 39.995$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3836; ConvF(7.27, 7.27, 7.27); Calibrated: 2022/6/27;

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn760; Calibrated: 2022/6/6

Phantom: SAM2; Type: QD000P40CD; Serial: TP:1673

Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

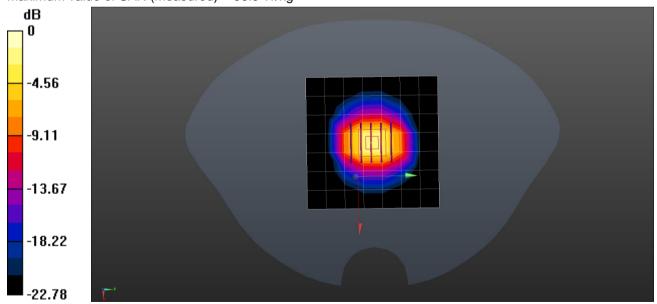
Body/d=10mm, Pin=250mW/Area Scan (8x8x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 19.9 W/kg

Body/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 118.4 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 45.1 W/kg

SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.12 W/kg Maximum value of SAR (measured) = 36.9 W/kg



0 dB = 36.9 W/kg = 15.67 dBW/kg



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Date: 2023/05/08

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

System Performance Check 2600MHz

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1058

Communication System: CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2600 MHz; $\sigma = 1.967$ S/m; $\varepsilon_r = 39.725$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3836; ConvF(6.99, 6.99, 6.99); Calibrated: 2022/6/27;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn760; Calibrated: 2022/6/6

Phantom: SAM2; Type: QD000P40CD; Serial: TP:1673

Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

Body/d=10mm, Pin=250mW/Area Scan (5x8x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 25.4 W/kg

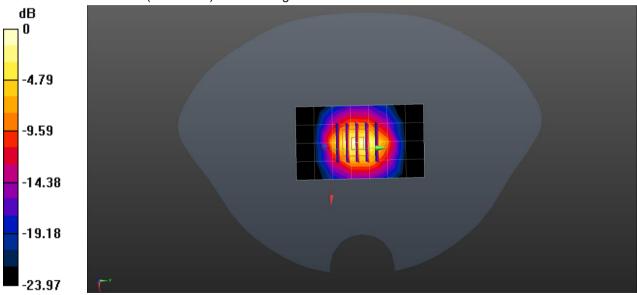
Body/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 97.696 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 36.8 W/kg

SAR(1 g) = 14.4 W/kg; SAR(10 g) = 6.33 W/kg

Maximum value of SAR (measured) = 29.6 W/kg



0 dB = 29.6 W/kg = 14.71 dBW/kg



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Appendix B: Detailed Test Results

The plots of worse case are showing as followings.



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Date: 2023/5/16

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

GSM850 GPRS 3TS Back Side 0mm Ch128

DUT: V66; Type: MiniPOS Terminal;

Communication System: GPRS-3TX; Frequency: 824.2 MHz; Duty Cycle: 1:2.77013 Medium parameters used: f = 824.2 MHz; σ = 0.929 S/m; ϵ_r = 42.255; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3836; ConvF(8.99, 8.99, 8.99); Calibrated: 2022/6/27;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn760; Calibrated: 2022/6/6

Phantom: SAM1; Type: QD000P40CD; Serial: TP:1673

Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

Body/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

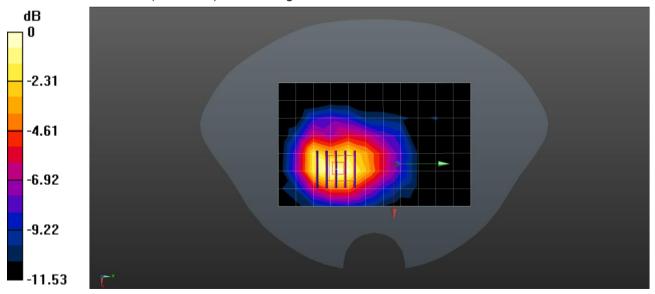
Maximum value of SAR (measured) = 1.70 W/kg

Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.697 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 2.29 W/kg

SAR(1 g) = 1.36 W/kg; SAR(10 g) = 0.819 W/kgMaximum value of SAR (measured) = 1.66 W/kg



0 dB = 1.66 W/kg = 2.20 dBW/kg



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Date: 2023/5/10

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

GSM1900 GPRS 3TS Back Side 0mm Ch810

DUT: V66; Type: MiniPOS Terminal;

Communication System: GPRS-3TX; Frequency: 1909.8 MHz; Duty Cycle: 1:2.77013 Medium parameters used: f = 1909.8 MHz; σ = 1.417 S/m; ϵ_r = 40.154; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3836; ConvF(7.65, 7.65, 7.65); Calibrated: 2022/6/27;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn760; Calibrated: 2022/6/6

Phantom: SAM1; Type: QD000P40CD; Serial: TP:1673

Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

Body/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

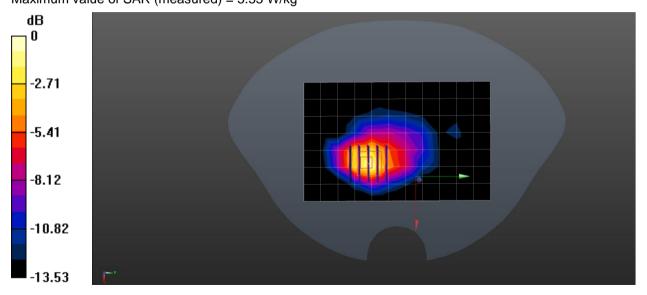
Maximum value of SAR (measured) = 4.65 W/kg

Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.708 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 8.46 W/kg

SAR(1 g) = 4.29 W/kg; SAR(10 g) = 2.18 W/kgMaximum value of SAR (measured) = 5.55 W/kg



0 dB = 5.55 W/kg = 7.44 dBW/kg



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Date: 2023/5/10

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

WCDMA Band 2 RMC Back Side 0mm Ch9538

DUT: V66; Type: MiniPOS Terminal;

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1907.6 MHz; $\sigma = 1.416 \text{ S/m}$; $\epsilon_r = 40.157$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3836; ConvF(7.65, 7.65, 7.65); Calibrated: 2022/6/27;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn760: Calibrated: 2022/6/6

Phantom: SAM1; Type: QD000P40CD; Serial: TP:1673

Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

Body/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 3.95 W/kg

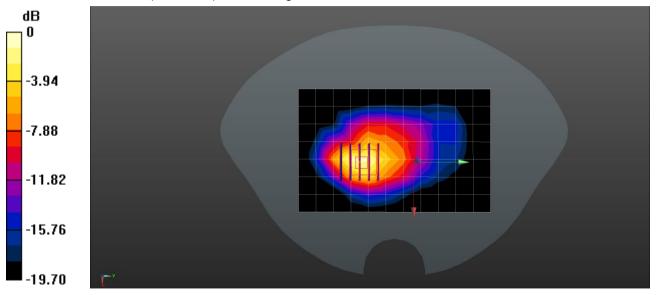
Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.735 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 7.45 W/kg

SAR(1 g) = 3.8 W/kg; SAR(10 g) = 1.85 W/kg

Maximum value of SAR (measured) = 4.78 W/kg



0 dB = 4.78 W/kg = 6.79 dBW/kg



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Date: 2023/5/12

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

WCDMA Band 4 RMC Back Side 0mm Ch1513

DUT: V66; Type: MiniPOS Terminal:

Communication System: WCDMA; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1752.6 MHz; $\sigma = 1.369 \text{ S/m}$; $\epsilon_r = 40.346$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3836; ConvF(8.02, 8.02, 8.02); Calibrated: 2022/6/27;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn760; Calibrated: 2022/6/6

Phantom: SAM1; Type: QD000P40CD; Serial: TP:1673

Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

Body/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

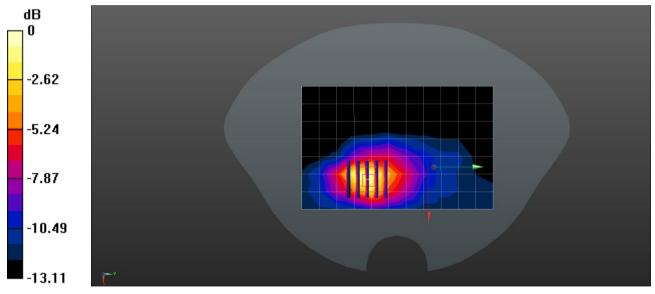
Maximum value of SAR (measured) = 4.42 W/kg

Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.235 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 7.90 W/kg

SAR(1 g) = 4.12 W/kg; SAR(10 g) = 2.11 W/kgMaximum value of SAR (measured) = 5.17 W/kg



0 dB = 5.17 W/kg = 7.13 dBW/kg



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Date: 2023/5/16

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

WCDMA Band 5 RMC Back Side 0mm Ch4182

DUT: V66; Type: MiniPOS Terminal;

Communication System: WCDMA; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.933 S/m; ε_r = 42.213; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3836; ConvF(8.99, 8.99, 8.99); Calibrated: 2022/6/27;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn760; Calibrated: 2022/6/6

Phantom: SAM1; Type: QD000P40CD; Serial: TP:1673

Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

Body/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.769 W/kg

Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.951 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.731 W/kg; SAR(10 g) = 0.471 W/kgMaximum value of SAR (measured) = 0.877 W/kg

dB0 -1.92-3.84-5.76-7.68 -9.60

0 dB = 0.877 W/kg = -0.57 dBW/kg



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Date: 2023/5/10

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

LTE Band 2 20M QPSK 1RB 50 Back Side 0mm Ch18900

DUT: V66; Type: MiniPOS Terminal;

Communication System: Generic LTE; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.417 S/m; ϵ_r = 40.165; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3836; ConvF(7.65, 7.65, 7.65); Calibrated: 2022/6/27;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn760; Calibrated: 2022/6/6

Phantom: SAM1; Type: QD000P40CD; Serial: TP:1673

Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

Body/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

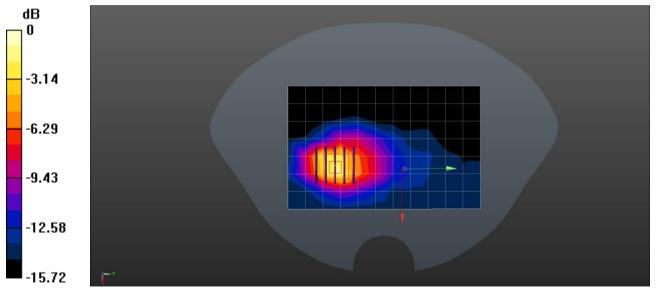
Maximum value of SAR (measured) = 5.23 W/kg

Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.978 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 10.8 W/kg

SAR(1 g) = 3.94 W/kg; SAR(10 g) = 1.41 W/kgMaximum value of SAR (measured) = 4.98 W/kg



0 dB = 4.98 W/kg = 6.97 dBW/kg



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Date: 2023/5/12

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

LTE Band 4 20M QPSK 1RB 0 Back Side 0mm Ch20050

DUT: V66; Type: MiniPOS Terminal;

Communication System: Generic LTE; Frequency: 1720 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1720 MHz; $\sigma = 1.357 \text{ S/m}$; $\epsilon_r = 40.374$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3836; ConvF(8.02, 8.02, 8.02); Calibrated: 2022/6/27;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn760; Calibrated: 2022/6/6

Phantom: SAM1; Type: QD000P40CD; Serial: TP:1673

Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

Body/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

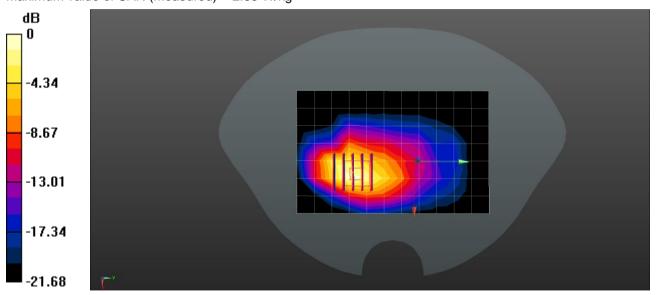
Maximum value of SAR (measured) = 2.50 W/kg

Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.129 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 4.47 W/kg

SAR(1 g) = 2.29 W/kg; SAR(10 g) = 1.06 W/kgMaximum value of SAR (measured) = 2.83 W/kg



0 dB = 2.83 W/kg = 4.52 dBW/kg



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

LTE Band 5 10M QPSK 1RB 0 Back Side 0mm Ch20525

DUT: V66; Type: MiniPOS Terminal;

Communication System: Generic LTE; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.933 S/m; ε_r = 42.213; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3836; ConvF(8.99, 8.99, 8.99); Calibrated: 2022/6/27;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn760; Calibrated: 2022/6/6

Phantom: SAM1; Type: QD000P40CD; Serial: TP:1673

Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

Body/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

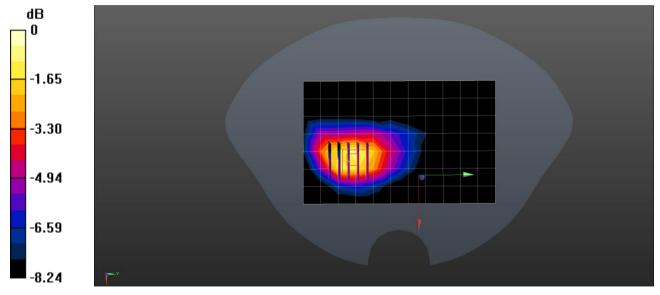
Maximum value of SAR (measured) = 0.739 W/kg

Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.687 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.772 W/kg; SAR(10 g) = 0.489 W/kgMaximum value of SAR (measured) = 0.871 W/kg



0 dB = 0.871 W/kq = -0.60 dBW/kq



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Date: 2023/5/8

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

LTE Band 7 20M QPSK 1RB 0 Back Side 0mm Ch21100

DUT: V66; Type: MiniPOS Terminal;

Communication System: Generic LTE; Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2535 MHz; $\sigma = 1.885$ S/m; $\epsilon_r = 39.214$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3836; ConvF(7.27, 7.27, 7.27); Calibrated: 2022/6/27;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn760; Calibrated: 2022/6/6

Phantom: SAM1; Type: QD000P40CD; Serial: TP:1673

Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

Body/Area Scan (9x14x1): Measurement grid: dx=12mm, dy=12mm

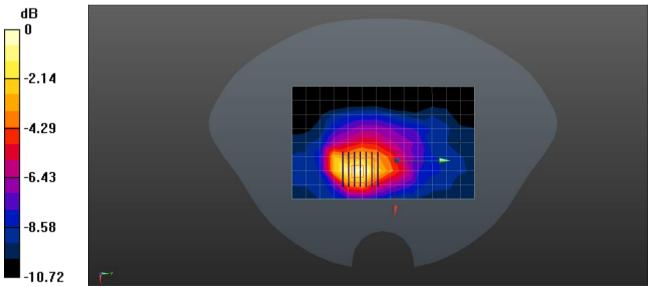
Maximum value of SAR (measured) = 3.62 W/kg

Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.060 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 7.96 W/kg

SAR(1 g) = 3.05 W/kg; SAR(10 g) = 1.55 W/kgMaximum value of SAR (measured) = 3.81 W/kg



0 dB = 3.81 W/kg = 5.81 dBW/kg



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Date: 2023/5/15

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

LTE Band 40a 10M QPSK 1RB 0 Back Side 0mm Ch38750

DUT: V66; Type: MiniPOS Terminal;

Communication System: Generic LTE; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2310 MHz; σ = 1.709 S/m; ε_r = 39.544; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3836; ConvF(7.57, 7.57, 7.57); Calibrated: 2022/6/27;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn760; Calibrated: 2022/6/6

Phantom: SAM1; Type: QD000P40CD; Serial: TP:1673

Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

Body/Area Scan (9x14x1): Measurement grid: dx=12mm, dy=12mm

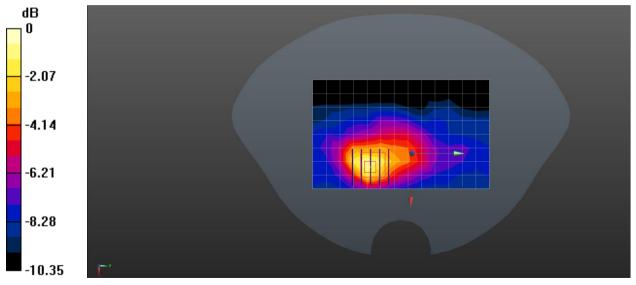
Maximum value of SAR (measured) = 1.99 W/kg

Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.083 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 3.79 W/kg

SAR(1 g) = 1.77 W/kg; SAR(10 g) = 0.979 W/kgMaximum value of SAR (measured) = 2.35 W/kg



0 dB = 2.35 W/kg = 3.71 dBW/kg



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Date: 2023/5/15

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

LTE Band 40b 10M QPSK 1RB 25 Back Side 0mm Ch39200

DUT: V66; Type: MiniPOS Terminal;

Communication System: Generic LTE; Frequency: 2355 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2355 MHz; $\sigma = 1.74 \text{ S/m}$; $\epsilon_r = 39.484$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3836; ConvF(7.57, 7.57, 7.57); Calibrated: 2022/6/27;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn760; Calibrated: 2022/6/6

Phantom: SAM1; Type: QD000P40CD; Serial: TP:1673

Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

Body/Area Scan (9x14x1): Measurement grid: dx=12mm, dy=12mm

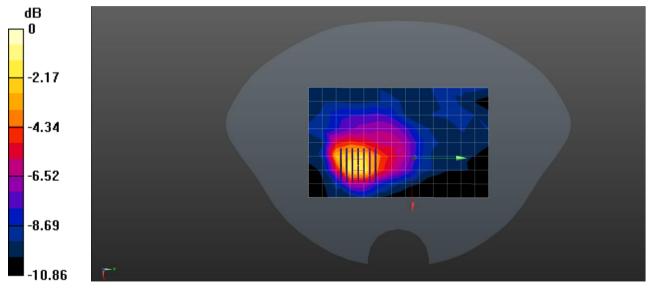
Maximum value of SAR (measured) = 2.01 W/kg

Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.881 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 4.67 W/kg

SAR(1 g) = 1.99 W/kg; SAR(10 g) = 1.03 W/kgMaximum value of SAR (measured) = 2.73 W/kg



0 dB = 2.73 W/kg = 4.36 dBW/kg



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Date: 2023/5/12

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

LTE Band 66 20M QPSK 1RB 0 Back Side 0mm Ch132322

DUT: V66; Type: MiniPOS Terminal;

Communication System: Generic LTE; Frequency: 1745 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1745 MHz; $\sigma = 1.35$ S/m; $\varepsilon_r = 40.39$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3836; ConvF(8.02, 8.02, 8.02); Calibrated: 2022/6/27;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn760; Calibrated: 2022/6/6

Phantom: SAM1; Type: QD000P40CD; Serial: TP:1673

Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

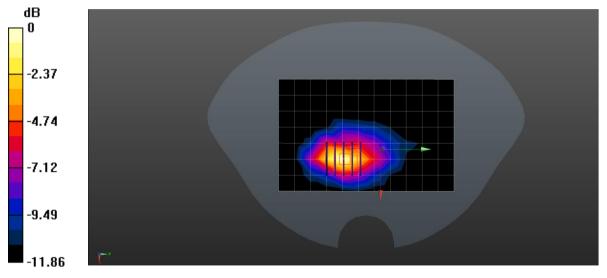
Body/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 4.19 W/kg

Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.650 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 6.17 W/kg

SAR(1 g) = 3.29 W/kg; SAR(10 g) = 1.72 W/kgMaximum value of SAR (measured) = 4.15 W/kg



0 dB = 4.15 W/kg = 6.18 dBW/kg



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Date: 2023/5/19

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

WLAN2.4GHz 802.11b 1Mbps Back side 0mm Ch11

DUT: V66; Type: MiniPOS Terminal;

Communication System: 2.4G WIFI; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2462 MHz; $\sigma = 1.815$ S/m; $\epsilon_r = 39.31$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3836; ConvF(7.27, 7.27, 7.27); Calibrated: 2022/6/27;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn760; Calibrated: 2022/6/6

Phantom: SAM1; Type: QD000P40CD; Serial: TP:1673

Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

Body/Area Scan (9x14x1): Measurement grid: dx=12mm, dy=12mm

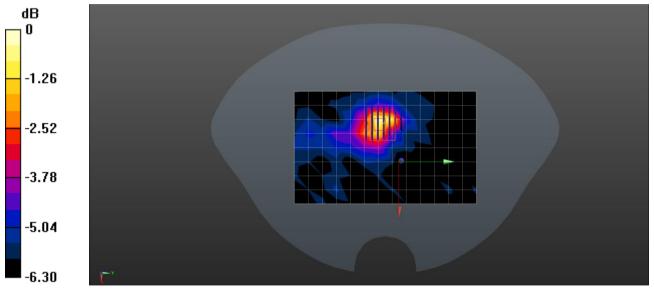
Maximum value of SAR (measured) = 0.0877 W/kg

Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.215 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.289 W/kg

SAR(1 g) = 0.070 W/kg; SAR(10 g) = 0.033 W/kgMaximum value of SAR (measured) = 0.0885 W/kg



0 dB = 0.0885 W/kg = -10.53 dBW/kg



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

Report No.: SZCR230400092609

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Date: 2023/5/19

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

Bluetooth GFSK Back side 0mm Ch0 **DUT: V66; Type: MiniPOS Terminal;**

Communication System: BT; Frequency: 2402 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2402 MHz; $\sigma = 1.774 \text{ S/m}$; $\varepsilon_r = 39.414$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3836; ConvF(7.27, 7.27, 7.27); Calibrated: 2022/6/27;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn760; Calibrated: 2022/6/6

Phantom: SAM1; Type: QD000P40CD; Serial: TP:1673

Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

Body/Area Scan (9x14x1): Measurement grid: dx=12mm, dy=12mm

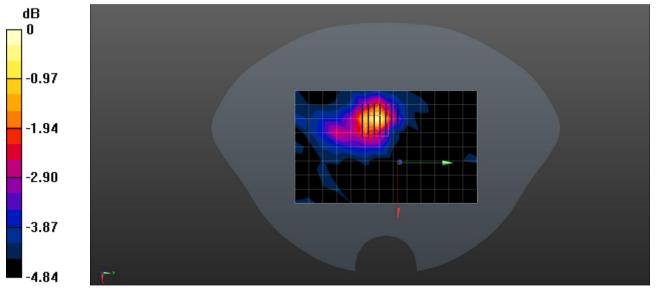
Maximum value of SAR (measured) = 0.0593 W/kg

Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.913 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.268 W/kg

SAR(1 g) = 0.047 W/kg; SAR(10 g) = 0.018 W/kgMaximum value of SAR (measured) = 0.0609 W/kg



0 dB = 0.0609 W/kg = -12.15 dBW/kg



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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



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Appendix C: Calibration certificate

Appendix D: Photographs





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