



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

Report No.: SZCR250300111204

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# FCC SAR TEST REPORT

Application No.: SZCR2503001112AT

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

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

District, Beijing, 100195 China

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

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

District, Beijing, 100195 China

**EUT Description:** SoundBox Model No.: Q181 mini

Trade Mark: Aisino

FCC ID: OWLQ181-MINI-A Standards: FCC 47CFR §2.1093

**Date of Receipt:** 2025-03-26

Date of Test: 2025-03-31 to 2025-04-04

Date of Issue: 2025-04-14

Test Result: PASS \*

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

Kenv Xu **EMC Laboratory Manager** 

Keny. Ku



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-04-14		Original

Authorized for issue by:		
	Calvin Weng	
	Calvin Weng/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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or email: CN.Doccheck@sgs.com |ku.l1Windstop,k=10,llifeth Section, Science & Technology Part, |kanshan 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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## **TEST SUMMARY**

Frequency Band	Maximum Reported SAR(W/kg)
Frequency Band	Limbs
GSM850	0.73
GSM1900	2.26
LTE Band 2	2.65
LTE Band 4	1.94
LTE Band 5	0.48
LTE Band 7	2.42
LTE Band 38	2.01
LTE Band 41	1.83
LTE Band 66	1.64
WI-FI (2.4GHz)	<0.10
SAR Limited(W/kg)	4.0
Maximum Simulta	neous Transmission SAR (W/kg)
Scenario	Limbs
Sum SAR	2.65
SPLSR	/
SPLSR Limited	0.1



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#### **General Information** 1

# 1.1 General Description of EUT

Product Name:	SoundBox		
Model No.:	Q181 mini		
Trade Mark:	Aisino		
Product Phase:	production unit		
Device Type:	portable device		
Exposure Category:	uncontrolled environment / general population		
IMEI:	00070410556		
Hardware Version:	V1.00		
Software Version:	V1.00		
Antenna Type:	PIFA antenna for LTE, PCB ante	nna for WIFI	
Device Operating Configurations:			
Modulation Mode:	GSM:GMSK; LTE:QPSK, 16QAM; WIFI:DSSS, OFDM		
Device Class:	В		
GPRS Multi-slots Class:	12		
	4, tested with power level 5(GSM850)		
Power Class:	1, tested with power level 0(GSM1900)		
	3, tested with power control "max	, , ,	
	Band	Tx(MHz)	
	GSM850	824~849	
	GSM1900	1850~1910	
	LTE Band 2	1850 ~ 1910	
	LTE Band 4	1710 ~ 1755	
Frequency Bands:	LTE Band 5	824 ~ 849	
	LTE Band 7	2500 ~ 2570	
	LTE Band 38	2570 ~ 2620	
	LTE Band 41	2496 ~ 2690	
	LTE Band 66	1710 ~ 1780	
	WIFI 2.4G	2412 ~ 2462	
RF Cable:	⊠Provided by applicant □Provi	ded by the laboratory	



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	Model:	18650 2000mAh
	Normal Voltage:	DC3.7V
Battery Information:	Rated capacity:	2000mAh
	Battery Type :	Rechargeable Li-ion Battery
	Manufacturer:	MEI ZHOU BO FU NENG TECHNOLOGY CO., LTD

#### Note:

\*Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

## 1.1.1 DUT Antenna Locations (Back View)

The DUT Antenna Locations can be referred to Appendix D





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# 1.2 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D05A	LTE Rel.10 KDB Inquiry Sheet v01r02
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02
KDB 447498 D04	Interim General RF Exposure Guidance v01
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03



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## 1.3 RF exposure limits

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

#### Notes:

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

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



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

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

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



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### 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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#### 2 **Laboratory Environment**

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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#### 3 **SAR Measurements System Configuration**

#### 3.1 The SAR Measurement System

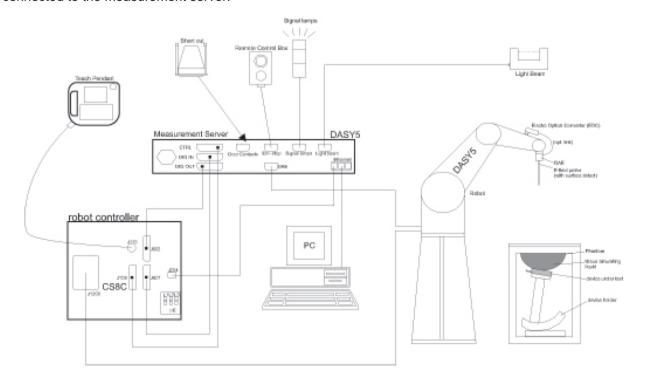
This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR=  $\sigma$  (|Ei|2)/  $\rho$  where  $\sigma$  and  $\rho$  are the conductivity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

The DASY system for performing compliance tests consists of the following items: A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software. An arm extension for accommodation the data acquisition electronics (DAE).

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

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

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



#### F-1. SAR Measurement System Configuration

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



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#### **Isotropic E-field Proble EX3DV4** 3.2

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



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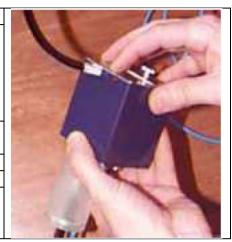
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#### 3.3 **Data Acquisition Electronics (DAE)**

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



### 3.4 SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
Shell Thickness	2 ± 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	pprox 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. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

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



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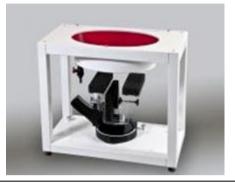
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#### 3.5 **ELI Phantom**

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid 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	pprox 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 IEEE 1528 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.

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





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#### 3.6 **Device Holder for Transmitters**



F-2. Device Holder for Transmitters

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





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

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

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





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			≤ 3 GHz	> 3 GHz	
Maximum distance from			5 ± 1 mm	½·δ·ln(2) ± 0.5 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 resolı	ation: ∆x <sub>Area</sub> , ∆y <sub>Area</sub>	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 <sub>Zoom</sub> , Δy <sub>Zoom</sub>	$\leq$ 2 GHz: $\leq$ 8 mm 2 - 3 GHz: $\leq$ 5 mm <sup>*</sup>	$3 - 4 \text{ GHz: } \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \le 4 \text{ mm}^*$	
	uniform	grid: ∆z <sub>Z∞m</sub> (n)	≤ 5 mm	$3-4 \text{ GHz}: \le 4 \text{ mm}$ $4-5 \text{ GHz}: \le 3 \text{ mm}$ $5-6 \text{ GHz}: \le 2 \text{ mm}$	
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz <sub>Zoom</sub> (1): between 1 <sup>st</sup> two points closest to phantom surface	≤ 4 mm	$3-4$ GHz: $\leq 3$ mm $4-5$ GHz: $\leq 2.5$ mm $5-6$ GHz: $\leq 2$ mm	
surace	grid	Δz <sub>Zoom</sub> (n>1): between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$		
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm	

### **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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### 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 "DAE". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

### 3.7.3 Data Evaluation by SEMCAD

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

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

- Conversion factor ConvFi
- Diode compression point Dcpi

Device parameters: Erequency

Device parameters: - Frequency

Crest factor cf
 Media parameters: - Conductivity

- Density ρ

These parameters must be set correctly in the software. They can be found in the component documents, or they can be imported into the software from the configuration files issued for the 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.

3

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

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

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

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

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:



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

H-field probes:

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

Normi = sensor sensitivity of channel I

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

ConvF = sensitivity enhancement in solution

aij = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

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

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

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

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

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$
  
The primary field data are used to calculate the derived field units.  
 $SAR = (Etot^2 \cdot \sigma) / (\varepsilon \cdot 1000)$ 

SAR = local specific absorption rate in mW/g

Etot = total field strength in V/m

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

ε= equivalent tissue density in g/cm3

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

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

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

Etot = total electric field strength in V/m

Htot = total magnetic field strength in A/m



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# 4 SAR measurement variability and uncertainty

#### 4.1 SAR measurement variability

Per KDB 865664 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 tissueequivalent 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 re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

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

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

#### 4.2 SAR measurement uncertainty

Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.





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#### **Desciption of Test Position** 5

#### 5.1 The Test Position

SAR can test the sides near the antenna, the surface of the device should be tested for SAR compliance with 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.

This product is a SoundBox, it supports the limbs to use, so Extremity SAR is evaluated with 0mm.



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#### **SAR System Verificaion Procedure** 6

#### 6.1 **Tissue Simulate Liquid**

## 6.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients	Frequency (MHz)										
(% by weight)	450	700-1000	1700-2000	2300-2500	2500-2700						
Water	38.56	40.30	55.24	55.00	54.92						
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23						
Sucrose	56.32	57.90	0	0	0						
HEC	0.98	0.24	0	0	0						
Bactericide	0.19	0.18	0	0	0						
Tween	0	0	44.45	44.80	44.85						

Sucrose: 98+% Pure Sucrose HEC: Hydroxyethyl Cellulose

Salt: 99+% Pure Sodium Chloride Water: De-ionized, 16 M $\Omega$ + resistivity

Tween: Polyoxyethylene (20) sorbitan monolaurate

HSL5GHz is composed of the following ingredients: (Manufactured by SPEAG)

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

Table 1: Recipe of Tissue Simulate Liquid



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### 6.1.2 Measurement for Tissue Simulate Liquid

The Conductivity ( $\sigma$ ) and Permittivity ( $\epsilon r$ ) are listed in Table 2. 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												
	Measured Frequency		d Tissue	Target Tis	ssue (±5%)	Devia (Within		Liquid Temp.	Test Date				
	(MHz)	ε <sub>r</sub>	σ(S/m)	٤r	σ(S/m)	٤r	σ(S/m)	(℃)					
835 Head	835	40.002	0.921	41.50	0.90	-3.61%	2.35%	22.8	2025/3/31				
1750 Head	1750	40.359	1.340	40.10	1.37	0.64%	-2.22%	22.1	2025/4/1				
1900 Head	1900	40.460	1.415	40.00	1.40	1.15%	1.05%	22.8	2025/4/2				
2450 Head	2450	38.567	1.808	39.20	1.80	-1.62%	0.43%	22.4	2025/4/3				
2600 Head	2600	38.328	1.892	39.00	1.96	-1.72%	-3.47%	22.3	2025/4/4				

Table 2: Measurement result of Tissue electric parameters





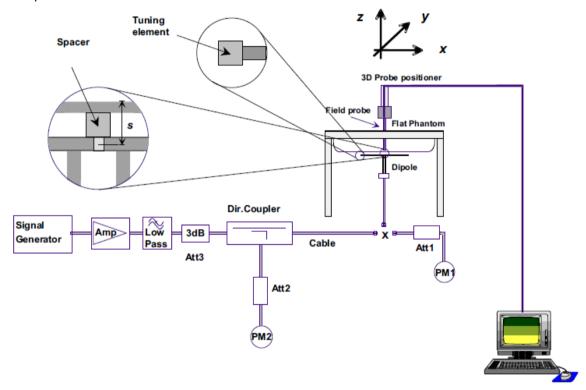
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#### 6.2 **SAR System Check**

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



F-12. The microwave circuit arrangement used for SAR system Check



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### 6.2.1 Justification for Extended SAR Dipole Calibrations

- 1) 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 20% of calibrated measurement;
- d) Impedance is within  $5\Omega$  from the previous measurement.
- 2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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## 6.2.2 Summary System Check Result(s)

	SAR System Validation Result(s)												
Validation Kit		SAR S		Measured Measured SAR SAR SAR 250mW 250mW (r		Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)  Target SAR (normalized to 1W)		Devi	ation ı ±10% )	Liquid Temp.	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg)	10- g(W/kg)	(℃)			
D835V2	Head	2.44	1.63	9.76	6.52	9.53	6.29	2.41%	3.66%	22.8	2025/3/31		
D1750V2	Head	8.95	4.78	35.80	19.12	36.60	19.30	-2.19%	-0.93%	22.1	2025/4/1		
D1900V2	Head	9.36	4.71	37.44	18.84	39.50	20.60	-5.22%	-8.54%	22.8	2025/4/2		
D2450V2	Head	13.00	6.10	52.00	24.40	52.20	24.30	-0.38%	0.41%	22.4	2025/4/3		
D2600V2	Head	14.40	6.58	57.60	26.32	57.70	25.80	-0.17%	2.02%	22.3	2025/4/4		

Table 3: SAR System Check Result

## 6.2.3 Detailed System Check Results

Please see the Appendix A





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#### **Test Configuration** 7

#### 7.1 **Operation Configurations**

## 7.1.1 GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a base station by air link. Using Radio Communication Analyzer, the power lever is set to "5" and "0" in SAR of GSM 850 and GSM 1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS function. Since the GPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5.

SAR test reduction for GPRS modes is determined by the source-based time-averaged output power specified for production units. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power, the higher number time-slot configuration should be tested.



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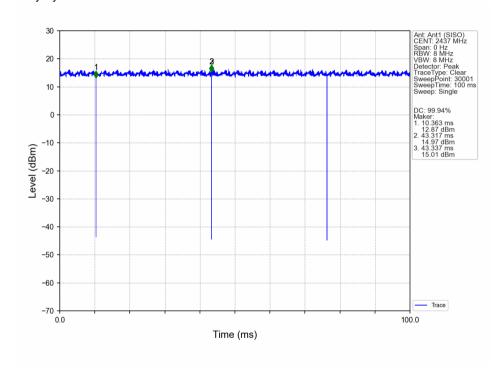
### 7.1.2 WIFI Test Configuration

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

### **7.1.2.1 Duty cycle**

1) Wi-Fi 2.4GHz 802.11b:

Duty cycle=99.94%







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#### 7.1.2.2 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.



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#### 7.1.2.3 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.
- 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" (i.e., subsequent next highest specified maximum output power configuration)
- replace "initial test configuration" with "all tested higher output power configurations"



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#### 7.1.2.4 2.4 GHz WiFi SAR Procedures

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

### 802.11b DSSS SAR Test Requirements

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

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

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

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

#### **SAR Test Requirements for OFDM configurations**

When SAR measurement is required for 802.11 g/n OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.



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### 7.1.3 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 Radio Communication Analyzer was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

#### TDD LTE test consideration

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

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

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

#### Frame structure type 2:

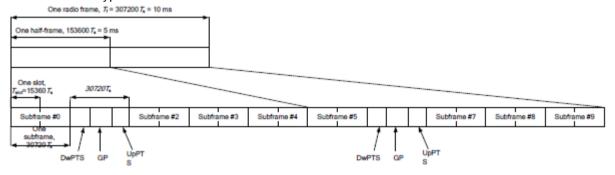


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

14016 4.2-1. 0	Table 4.2-1. Configuration of special subframe (lengths of DWF 13/GF/OpF 13).										
0	Norm	nal cyclic prefix in	downlink	Extended cyclic prefix in downlink							
Special subframe	DwPTS	Up	PTS	DwPTS	UpPTS						
configuration		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink					
0	6592.Ts			7680.Ts							
1	19760.Ts			20480.Ts	0400 To	0500 T					
2	21952.Ts	2192.Ts	2560.Ts	23040.Ts	2192.Ts	2560.Ts					
3	24144.Ts			25600.Ts							
4	26336.Ts			7680.Ts	400 4 T-	5120.Ts					
5	6592.Ts	4384.Ts	5120.Ts	20480.Ts	4384.Ts						

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6	19760.Ts		23040.Ts		
7	21952.Ts		25600.Ts		
8	24144.Ts		-	-	-
9	13168.Ts		-	-	-

### Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink	Downlink-to-				Sı	ubframe	e numb	er			
configuration	Uplink Switch- point periodicity	0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Calculated Duty Cycle=[Extended cyclic prefix in uplink x (Ts) x # of S + # of U1/10ms

	zany cycho [zmic		Subframe Number									
Uplink-										Calculated		
Downlink	Downlink-to- Uplink Switch-											Duty
Configur	point Periodicity	0	1	2	3	4	5	6	7	8	9	Cycle (%)
ation												
0	5 ms	D	S	J	J	U	D	S	J	U	U	63.33
1	5 ms	D	S	J	J	D	D	S	ט	U	D	43.33
2	5 ms	D	S	J	D	D	D	S	ט	D	D	23.33
3	10 ms	D	S	J	J	J	D	D	D	D	D	31.67
4	10 ms	D	S	J	J	D	D	D	D	D	D	21.67
5	10 ms	D	S	J	D	D	D	D	ם	D	D	11.67
6	5 ms	D	S	J	J	J	D	S	J	U	D	53.33

### A) Spectrum Plots for RB Configurations

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



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### B) MPR

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

0.2.0 0.2.0 000 0	J. J										
		Channel bandwidth/Transmission bandwidth									
Modulation	1.4	3	5	10	15	20	MPR				
	MHz	MHz	MHz	MHz	MHz	MHz	(dB)				
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0				
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	1				
16QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	1				
16QAM	> 5	> 4	> 8	> 12	> 16	> 18	2				
64QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2				
64QAM	> 5	> 4	> 8	> 12	> 16	> 18	3				
256QAM		≥1									

#### 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  $\leq 0.8$  W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel. 2) QPSK with 50% RB allocation

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

#### 3) QPSK with 100% RB allocation

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

#### 4) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is > ½ 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  $> \frac{1}{2}$  dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.



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### 8 Test Result

### 8.1 Measurement of RF Conducted Power

#### 8.1.1 Conducted Power of GSM

					GSN	1 850				
Ві	urst Output Po	wer(dBn	า)		Tune up	Division Factors	Frame-Ave	rage Output F	Power(dBm)	Tune up
Chann	el	128	190	251	rune up	DIVISION FACIOIS	128	190	251	rune up
	1 TX Slot	32.97	32.79	32.38	33.50	-9.03	23.94	23.76	23.35	24.47
GPRS/EGPRS	2 TX Slots	31.52	31.36	30.89	32.00	-6.02	25.5	25.34	24.87	25.98
(GMSK)	3 TX Slots	29.37	29.34	29	30.00	-4.26	25.11	25.08	24.74	25.74
	4 TX Slots	27.1	27.2	26.92	28.00	-3.01	24.09	24.19	23.91	24.99

GSM 1900										
Вι	urst Output Po	wer(dBn	า)		Tungun	Division Factors	Frame-Ave	rage Output F	Power(dBm)	T
Chann	Channel 512 661 810				Tune up	DIVISION FACIOIS	512	661	810	Tune up
	1 TX Slot	29.74	29.48	29.31	30.00	-9.03	20.71	20.45	20.28	20.97
GPRS/EGPRS	2 TX Slots	28.18	28.02	27.79	29.00	-6.02	22.16	22	21.77	22.98
(GMSK)	3 TX Slots	26.09	25.97	25.75	27.00	-4.26	21.83	21.71	21.49	22.74
	4 TX Slots	24.06	23.88	23.59	25.00	-3.01	21.05	20.87	20.58	21.99





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### 8.1.2 Conducted Power of LTE

	LTE Band	2			Conduc	ted Power(dBm)	
Danish dalah	Madalatia	DD -:	DD -#1	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	18607	18900	19193	Tune up
		1	0	22.76	22.38	21.80	23.50
		1	2	23.17	22.89	22.02	23.50
		1	5	22.33	21.89	22.03	23.50
	QPSK	3	0	23.08	22.58	21.95	23.50
		3	2	23.30	22.75	22.08	23.50
		3	3	22.86	22.38	21.90	23.50
4 48411-		6	0	21.99	21.40	20.64	22.50
1.4MHz		1	0	21.83	21.45	20.68	22.50
		1	2	22.28	21.90	20.99	22.50
		1	5	21.46	21.93	21.03	22.50
	16QAM	3	0	22.20	21.49	21.10	22.50
		3	2	22.37	21.72	21.22	22.50
		3	3	21.96	21.37	20.52	22.50
		6	0	20.96	20.37	19.55	21.50
5 1			55 " .	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	18615	18900	19185	Tune up
		1	0	22.31	22.00	22.02	23.50
		1	7	23.09	22.63	21.92	23.50
	QPSK	1	14	22.49	21.97	22.11	23.50
		8	0	21.74	21.15	20.54	22.50
		8	4	21.96	21.38	20.67	22.50
		8	7	21.68	21.12	21.33	22.50
28411-		15	0	21.73	21.09	21.40	22.50
3MHz		1	0	21.87	21.09	21.42	22.50
		1	7	22.44	21.78	21.93	22.50
		1	14	20.91	21.14	21.17	22.50
	16QAM	8	0	20.87	21.08	20.59	21.50
		8	4	21.13	21.36	20.72	21.50
		8	7	20.88	21.07	20.38	21.50
		15	0	20.79	20.05	20.46	21.50
Danish dalah	Manada da da co	DD -'	DD ("1	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	18625	18900	19175	Tune up
		1	0	22.30	21.51	21.73	23.50
		1	13	22.30	21.75	22.15	23.50
		1	24	21.92	21.90	22.22	23.50
	QPSK	12	0	21.50	20.64	20.59	22.50
5MHz		12	6	21.50	20.65	21.40	22.50
		12	13	21.44	20.86	21.15	22.50
		25	0	21.45	20.85	21.34	22.50
	16QAM	1	0	21.20	20.64	20.86	22.50
	IOQAW	1	13	21.19	20.94	21.28	22.50



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	1	1 1	24	20.82	20.64	20.55	22.50
		12	0	20.52	19.69	20.56	21.50
		12	6	20.55	19.09	20.42	21.50
		12	13	20.49	19.70	20.42	21.50
		25	0	20.49	19.85	20.38	21.50
		25		Channel	Channel	Channel	21.50
Bandwidth	Modulation	RB size	RB offset				Tune up
		1	0	18650 22.04	18900 21.86	19150 21.53	22.50
		1	0				23.50
		1	25	22.33 21.93	21.71 21.80	21.93 22.20	23.50 23.50
	QPSK	12	49 0	21.95	20.52	20.81	22.50
	QI SIX	25	6	21.21	20.52	20.54	22.50
		25	13	21.21	20.73	21.07	22.50
		50	0	21.36	20.73	21.45	22.50
10MHz		1	0	21.66	20.74	21.46	22.50
		1	25	21.88	20.84	21.47	22.50
		1	49	21.42	20.85	21.31	22.50
	16QAM	12	0	21.22	20.45	20.84	21.50
		12	19	21.10	20.76	20.54	21.50
		12	38	21.07	20.64	19.74	21.50
		27	0	20.25	19.58	20.15	21.50
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	18675	18900	19125	Tune up
		1	0	21.92	21.75	21.60	23.50
		1	38	22.03	21.51	21.88	23.50
		1	74	21.52	21.79	21.66	23.50
	QPSK	36	0	21.16	20.72	21.20	22.50
		36	18	21.12	20.77	20.92	22.50
		36	39	20.86	20.62	20.98	22.50
		75	0	21.13	20.65	21.00	22.50
15MHz							
		1	0	21.46	21.34	20.81	22.50
		1	38	21.60	20.62	20.64	22.50
		1	74	21.13	21.42	20.92	22.50
	16QAM	12	0	21.19	20.43	21.08	21.50
		12	31	21.24	20.55	20.46	21.50
		12	63	21.41	20.70	19.84	21.50
		27	0	20.20	19.75	19.82	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwium	Modulation	KD Size	KD OIISEL	18700	18900	19100	Turie up
		1	0	21.63	21.95	21.72	23.50
		1	50	22.19	21.63	21.57	23.50
		1	99	21.75	21.66	21.51	23.50
	QPSK	50	0	21.32	20.60	22.11	22.50
20MHz		50	25	21.17	20.66	21.79	22.50
		50	50	21.22	21.36	21.35	22.50
		-					
	400444	100	0	20.92	21.50	21.47	22.50
	16QAM	1	0	20.89	20.70	21.14	22.50



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	1	50	21.48	20.92	21.20	22.50
	1	99	20.57	20.95	20.86	22.50
	12	0	20.99	20.48	20.17	21.50
	12	44	21.25	20.66	20.71	21.50
	12	88	20.77	20.91	20.44	21.50
	27	0	20.30	19.94	19.53	21.50

	LTE Band 4				Conduc	ted Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawidin	Modulation	IND SIZE	ND onset	19957	20175	20393	i une up
		1	0	21.65	22.27	21.94	23.00
		1	2	21.74	22.49	21.63	23.00
		1	5	21.69	21.41	21.58	23.00
	QPSK	3	0	21.53	22.28	21.36	23.00
		3	2	21.75	22.48	21.59	23.00
		3	3	21.12	21.92	21.34	23.00
1.4MHz		6	0	20.17	20.98	20.36	22.00
1.4WHZ		1	0	20.76	20.99	20.79	22.00
		1	2	20.92	21.65	20.57	22.00
		1	5	20.72	20.58	20.58	22.00
	16QAM	3	0	20.77	21.28	20.97	22.00
		3	2	20.91	21.52	20.67	22.00
		3	3	20.91	20.97	21.42	22.00
		6	0	20.21	20.01	20.36	21.00
			55 "	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	19965	20175	20385	Tune up
		1	0	21.58	21.25	21.55	23.00
		1	7	22.13	22.61	22.05	23.00
		1	14	21.30	21.70	21.72	23.00
	QPSK	8	0	20.40	21.11	20.55	22.00
		8	4	20.68	21.37	20.80	22.00
		8	7	20.41	21.11	20.50	22.00
		15	0	20.41	21.09	20.51	22.00
3MHz		1	0	21.18	20.35	20.41	22.00
		1	7	21.71	21.77	20.97	22.00
		1	14	20.77	20.85	20.69	22.00
	16QAM	8	0	19.53	20.14	19.64	21.00
		8	4	19.85	20.42	19.86	21.00
		8	7	19.60	20.15	19.55	21.00
		15	0	19.47	20.11	19.57	21.00
			- ·	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	19975	20175	20375	Tune up
		1	0	21.54	22.12	21.66	23.00
		1	13	21.44	21.93	21.42	23.00
		1	24	21.44	21.49	21.37	23.00
5MHz	QPSK	12	0	20.46	21.10	20.62	22.00
		12	6	20.52	21.12	20.56	22.00
		12	13	20.47	21.09	20.93	22.00
		12	ıJ	20.41	21.03	20.50	22.00



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					J		
		25	0	20.44	21.10	20.51	22.00
		1	0	20.34	21.33	20.78	22.00
		1	13	20.24	21.19	20.54	22.00
		1	24	20.23	20.27	20.47	22.00
	16QAM	12	0	19.46	20.18	19.64	21.00
		12	6	19.52	20.20	19.59	21.00
		12	13	19.48	20.19	19.96	21.00
		25	0	19.46	20.12	19.58	21.00
Danish dalah	Madalatas	DD -i	DD - (( )	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	20000	20175	20350	Tune up
		1	0	22.14	22.17	21.06	23.00
		1	25	21.75	22.11	21.69	23.00
		1	49	21.65	21.79	21.38	23.00
	QPSK	12	0	21.20	21.14	20.90	22.00
		25	6	21.27	21.22	20.72	22.00
		25	13	20.69	21.34	21.17	22.00
		50	0	20.68	21.13	20.68	22.00
10MHz		1	0	21.60	21.30	20.28	22.00
		1	25	20.54	21.27	20.63	22.00
		1	49	20.96	20.94	20.38	22.00
	16QAM	12	0	20.01	20.96	20.99	21.00
	TOQAW	12	19	19.84	20.70	20.75	21.00
		12	38	19.70	20.18	20.73	21.00
		27	0	20.01	20.16	20.75	21.00
		21	0	Channel	Channel	Channel	21.00
Bandwidth	Modulation	RB size	RB offset	20025	20175	20325	Tune up
		1	0				22.00
		1	38	22.02	22.02	21.78	23.00 23.00
		1	74	21.65 21.26	22.02 21.35	21.68	23.00
	ODOK		-			21.55	
	QPSK	36	0	20.29	20.39	21.20	22.00
		36	18	20.50	20.73	20.98	22.00
		36	39	20.74	21.05	20.93	22.00
15MHz		75	0	20.70	21.10	20.75	22.00
		1	0	20.56	21.13	21.07	22.00
		1	38	20.25	21.19	21.06	22.00
		1	74	20.56	20.36	20.24	22.00
	16QAM	12	0	19.24	20.12	20.38	21.00
		12	31	19.80	20.20	20.76	21.00
		12	63	19.67	20.67	19.80	21.00
		27	0	20.26	20.37	20.16	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawida	Wiodulation	ND SIZU	TE SHOOL	20050	20175	20300	ranc up
		1	0	22.10	22.08	21.74	23.00
		1	50	21.97	22.23	21.80	23.00
		1	99	21.17	21.50	21.88	23.00
20MH-	QPSK	50	0	21.57	20.74	21.09	22.00
20MHz		50	25	20.85	21.20	20.74	22.00
		50	50	20.69	20.87	20.48	22.00
		100	0	20.63	20.77	20.49	22.00
	16QAM	1	0	20.51	21.30	21.25	22.00
	1	1	· -		1	-	1



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1	50	20.17	21.48	21.35	22.00
1	99	20.39	20.10	21.43	22.00
12	0	19.27	20.08	20.96	21.00
12	44	19.98	20.27	20.86	21.00
12	88	19.52	20.13	20.43	21.00
27	0	20.35	20.50	20.07	21.00

	LTE Band 5				Conduc	ted Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawidii	Wodulation	IND SIZE	NB onset	20407	20525	20643	rune up
		1	0	23.23	22.08	21.83	23.50
		1	2	22.82	22.39	22.03	23.50
		1	5	21.66	22.49	21.88	23.50
	QPSK	3	0	22.93	22.13	21.94	23.50
		3	2	23.18	22.39	22.12	23.50
		3	3	22.01	22.85	22.78	23.50
1.4MHz		6	0	21.02	20.92	20.87	22.50
1.4WITZ		1	0	22.23	20.98	20.55	22.50
		1	2	21.88	21.34	21.20	22.50
		1	5	20.73	21.51	21.06	22.50
	16QAM	3	0	21.90	21.32	21.20	22.50
		3	2	22.20	20.56	21.37	22.50
		3	3	21.03	21.01	21.00	22.50
		6	0	20.04	20.97	20.04	21.50
			55 "	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	20415	20525	20635	Tune up
		1	0	22.66	21.80	21.70	23.50
		1	7	22.78	21.65	21.60	23.50
		1	14	22.90	22.18	21.75	23.50
	QPSK	8	0	21.06	20.98	21.46	22.50
		8	4	21.37	21.33	21.48	22.50
		8	7	21.11	21.17	21.09	22.50
		15	0	21.08	21.04	21.28	22.50
3MHz		1	0	22.30	21.45	20.76	22.50
		1	7	22.38	20.82	20.75	22.50
		1	14	21.45	21.37	20.95	22.50
	16QAM	8	0	21.27	21.03	20.68	21.50
		8	4	20.64	20.92	20.69	21.50
		8	7	20.38	20.88	20.28	21.50
		15	0	20.24	20.11	20.49	21.50
				Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	20425	20525	20625	Tune up
		1	0	22.91	22.01	22.01	23.50
		1	13	21.89	22.08	22.54	23.50
	25	1	24	22.52	22.31	22.35	23.50
5MHz	QPSK	12	0	21.57	20.88	21.69	22.50
		12	6	21.57	20.86	21.11	22.50
		12	13	21.52	20.79	21.03	22.50



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		25	0	20.97	20.97	20.84	22.50
		1	0	21.97	20.72	21.28	22.50
		1	13	20.95	20.77	20.80	22.50
		1	24	20.51	20.81	21.10	22.50
	16QAM	12	0	20.66	20.01	20.85	21.50
		12	6	20.66	20.19	20.28	21.50
		12	13	20.64	20.43	20.20	21.50
		25	0	20.09	20.16	20.03	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tung up
Danuwium	Wodulation	KD SIZE	KD Ollset	20450	20525	20600	Tune up
		1	0	22.82	21.98	22.74	23.50
		1	25	22.44	22.14	21.98	23.50
		1	49	22.26	21.81	22.05	23.50
	QPSK	12	0	21.37	21.14	21.23	22.50
		25	6	21.90	21.39	21.55	22.50
		25	13	21.86	21.70	21.85	22.50
10MHz		50	0	20.57	21.38	20.95	22.50
IUIVINZ		1	0	22.34	21.11	21.75	22.50
		1	25	22.04	21.39	21.11	22.50
		1	49	22.28	21.10	21.22	22.50
	16QAM	12	0	21.48	20.13	20.32	21.50
		12	19	21.27	20.27	20.24	21.50
		12	38	20.51	20.86	20.14	21.50
		27	0	20.37	20.28	20.14	21.50

	LTE Band 7				Conduc	ted Power(dBm)	
Donalis idala	Madulatian	DD -:	DD 0#004	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	20775	21100	21425	Tune up
		1	0	22.81	22.42	22.30	23.50
		1	13	22.62	22.13	22.26	23.50
		1	24	22.57	21.97	22.10	23.50
	QPSK	12	0	21.82	21.53	21.30	22.50
		12	6	21.79	21.35	21.22	22.50
		12	13	21.81	21.07	21.29	22.50
5MHz		25	0	21.78	21.29	21.36	22.50
SIVITZ		1	0	21.71	21.64	21.36	22.50
		1	13	21.71	21.41	21.35	22.50
		1	24	21.49	21.30	21.40	22.50
	16QAM	12	0	20.89	21.62	21.30	22.50
		12	6	20.90	21.46	21.24	22.50
		12	13	20.85	21.18	21.33	22.50
		25	0	20.85	20.37	20.45	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwium	iviodulation	KD SIZE	KD Ollset	20800	21100	21400	rune up
		1	0	22.50	22.03	21.74	23.50
10MHz	QPSK	1	25	22.59	21.76	22.21	23.50
IUIVITIZ	QF3N	1	49	22.72	22.20	21.62	23.50
		25	0	21.58	20.82	21.08	22.50



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	I	25	13	21.65	21.45	21.04	22.50
		25	25	21.63	21.43	21.03	22.50
		50	0	21.58	20.90	21.15	22.50
		1	0	21.92	21.22	20.60	22.50
		1	25	22.06	21.01	21.17	22.50
		1	49	22.11	20.58	21.17	
	16QAM	12	0		20.99		22.50 22.50
	TOQAM	12	19	21.46		21.01 21.27	22.50
				21.62	20.96		
		12	38	21.61	21.15	20.81	22.50
		27	0	20.51	19.96	20.13	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20825	21100	21375	
		1	0	22.28	22.05	22.33	23.50
		1	38	22.50	22.42	21.84	23.50
		1	74	22.90	21.80	21.84	23.50
	QPSK	36	0	21.48	20.81	20.94	22.50
		36	18	21.72	21.37	21.09	22.50
		36	39	21.77	21.20	20.77	22.50
15MHz		75	0	21.61	20.69	20.86	22.50
1 JIVII 12		1	0	21.64	21.32	20.67	22.50
		1	38	22.00	20.72	21.22	22.50
		1	74	22.42	21.16	21.54	22.50
	16QAM	12	0	21.34	21.13	21.09	22.50
		12	31	21.57	20.66	20.87	22.50
		12	63	22.49	21.11	21.01	22.50
		27	0	20.39	20.08	19.69	21.00
Danish dalah	NA - ded - C	DD -:	DD - #1	Channel	Channel	Channel	<b>T</b>
Bandwidth	Modulation	RB size	RB offset	20850	21100	21350	Tune up
		1	0	22.08	22.24	21.93	23.50
		1	50	22.71	22.45	21.86	23.50
		1	99	22.85	22.50	22.46	23.50
	QPSK	50	0	21.29	21.66	20.89	22.50
		50	25	21.70	21.06	21.39	22.50
		50	50	21.71	20.96	21.24	22.50
					1		+
		100	0	21.51	1 21.41	21.78	22.50
20MHz		100	0	21.51 21.23	21.41 21.53	21.78 20.97	22.50 22.50
20MHz		1	0	21.23	21.53	20.97	22.50
20MHz		1	0 50	21.23 21.95	21.53 21.22	20.97 21.53	22.50 22.50
20MHz	160AM	1 1 1	0 50 99	21.23 21.95 22.10	21.53 21.22 20.97	20.97 21.53 21.98	22.50 22.50 22.50
20MHz	16QAM	1 1 1 12	0 50 99 0	21.23 21.95 22.10 21.04	21.53 21.22 20.97 21.15	20.97 21.53 21.98 21.43	22.50 22.50 22.50 22.50
20MHz	16QAM	1 1 1	0 50 99	21.23 21.95 22.10	21.53 21.22 20.97	20.97 21.53 21.98	22.50 22.50 22.50

	LTE Band 38			Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
Danuwium	Modulation	KD SIZE	KD Ollset	37775	38000	38225	rune up	
EMU-	ODCK	1	0	23.34	22.81	22.15	24.00	
5MHz	QPSK	1	2	22.92	22.46	22.65	24.00	



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					. aga.		
		1	5	22.10	22.46	22.49	24.00
		3	0	22.34	22.76	23.06	24.00
		3	2	22.32	22.87	22.92	24.00
		3	3	22.20	22.75	22.81	24.00
		6	0	22.18	21.71	21.88	23.00
		1	0	22.26	21.76	21.11	23.00
		1	2	22.23	21.75	21.92	23.00
		1	5	21.50	21.51	21.82	23.00
	16QAM	3	0	21.35	21.95	21.21	23.00
		3	2	21.52	21.92	21.11	23.00
		3	3	21.23	21.90	21.09	23.00
		6	0	21.45	21.06	21.05	22.00
5 1 1 11			55 "	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	37800	38000	38200	Tune up
		1	0	23.41	22.94	22.91	24.00
		1	7	23.43	22.87	22.96	24.00
		1	14	22.01	22.56	22.82	24.00
	QPSK	8	0	22.69	22.09	22.13	24.00
		8	4	22.46	23.01	22.07	24.00
		8	7	22.33	22.93	22.96	24.00
		15	0	22.51	21.96	22.01	23.00
10MHz		1	0	22.25	21.84	21.82	23.00
		1	25	22.54	21.88	21.62	23.00
		1	49	21.92	21.59	21.79	23.00
	16QAM	12	0	22.66	22.14	22.03	23.00
		12	19	22.48	22.16	21.94	23.00
		12	38	22.22	21.70	21.87	23.00
		27	0	21.74	21.32	21.26	22.00
				Channel	Channel	Channel	22.00
Bandwidth	Modulation	RB size	RB offset	37825	38000	38175	Tune up
		1	0	23.45	22.88	22.76	24.00
		1	13	23.20	22.81	22.81	24.00
		1	24	22.27	22.03	22.65	24.00
	QPSK	12	0	22.76	22.33	22.56	24.00
	Q. O.	12	6	22.66	22.14	22.56	24.00
		12	13	22.22	22.78	22.07	24.00
		25	0	22.50	22.00	22.06	23.00
15MHz		1	0	22.41	21.91	21.71	23.00
		1	38	22.43	21.91	22.15	23.00
		1	74	21.30	21.04	21.66	23.00
	16QAM	12	0	22.78	22.24	21.55	23.00
	TOQAW	12	31	22.40	22.07	22.06	23.00
		12	63	21.90	21.46	22.39	23.00
		27	0	21.77	21.40	21.20	22.00
		21	U			Channel	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel 38000		Tune up
		4	^	37850		38150	24.00
		1	0	23.39	23.15	22.64	24.00
20MHz	QPSK	1	50	23.37	22.98	22.98	24.00
		1 50	99	22.03	22.76	22.59	24.00
		50	0	22.67	22.43	22.20	24.00



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	50	25	22.40	22.34	22.19	24.00
	50	50	22.42	22.53	22.30	24.00
	100	0	22.21	21.93	21.86	23.00
	1	0	22.28	22.37	21.89	23.00
	1	50	22.46	22.03	21.80	23.00
	1	99	21.11	21.78	21.89	23.00
16QAM	12	0	22.59	22.33	22.02	23.00
	12	44	22.41	22.28	22.06	23.00
	12	88	21.17	21.60	22.17	23.00
	27	0	21.75	21.56	21.15	22.00

	LTE Ban	d 41			Condu	ucted Power	r(dBm)		Tune up
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	rune up
Danawiain	Modulation	RD SIZE	RD Ollset	39675	40620	41565	40147	41092	
		1	0	22.83	21.75	22.13	21.64	22.18	23.50
		1	13	22.82	22.02	22.38	21.99	22.32	23.50
		1	24	22.33	22.47	21.98	22.47	21.96	23.50
	QPSK	12	0	21.59	21.71	22.20	21.64	22.08	23.50
		12	6	21.56	21.69	22.21	21.75	22.38	23.50
		12	13	22.14	22.16	21.98	22.25	22.18	23.50
5MHz		25	0	22.13	21.22	20.71	21.15	20.89	22.50
JIVII IZ		1	0	22.10	21.78	21.08	21.83	21.14	22.50
		1	13	22.04	21.51	21.49	21.64	21.37	22.50
		1	24	21.70	21.67	21.25	21.85	21.22	22.50
	16QAM	12	0	21.64	21.66	21.35	21.77	21.20	22.50
		12	6	21.67	21.58	21.29	21.40	21.24	22.50
		12	13	21.27	21.41	21.20	21.37	21.23	22.50
		25	0	21.09	20.40	20.83	20.46	20.83	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
Dariuwiutii	iviodulation	ND SIZE	KD Ollset	39700	40620	41540	40160	41080	rune up
		1	0	22.95	21.94	22.47	22.04	22.51	23.50
		1	25	23.10	22.47	21.93	22.48	22.10	23.50
		1	49	22.73	21.65	22.19	21.57	22.10	23.50
	QPSK	12	0	21.80	21.94	22.14	21.74	21.97	23.50
		25	6	21.72	21.76	22.38	21.70	22.35	23.50
		25	13	22.19	22.33	21.86	22.44	21.80	23.50
10MHz		50	0	22.14	21.48	20.85	21.54	20.79	22.50
TOWINZ		1	0	22.02	20.73	21.25	20.66	21.15	22.50
		1	25	22.17	21.40	20.89	21.23	20.97	22.50
		1	49	21.62	20.64	21.37	20.81	21.32	22.50
	16QAM	12	0	21.89	20.88	21.41	20.86	21.38	22.50
		12	19	22.20	21.54	20.96	21.58	21.02	22.50
		12	38	21.19	21.13	21.70	21.23	21.65	22.50
		27	0	20.79	20.97	20.85	20.92	20.91	21.50
Bandwidth	Modulation	DD size	RB offset	Channel	Channel	Channel	Channel	Channel	Tungun
Danuwiuth	iviodulation	RB size	RD Ullset	39725	40620	41515	40172	41067	Tune up
15MHz	QPSK	1	0	23.12	21.99	21.54	22.02	21.72	23.50



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	1	1	38	22.83	22.21	21.87	22.32	21.93	23.50
		1	74	22.27	21.77	21.51	21.95	21.52	23.50
		36	0	21.95	21.92	22.57	21.80	22.45	23.50
		36	18	21.89	21.94	22.62	21.89	22.57	23.50
		36	39	21.96	22.25	21.78	22.38	21.85	23.50
		75	0	22.10	22.10	21.01	22.29	21.03	22.50
		1	0	22.06	20.84	21.45	20.89	21.26	22.50
		1	38	22.02	21.20	21.19	21.19	21.39	22.50
		1	74	21.42	20.70	20.84	21.50	20.69	22.50
	16QAM	12	0	22.03	21.04	20.61	20.99	20.56	22.50
		12	31	22.07	21.43	21.01	21.36	21.11	22.50
		12	63	22.43	21.28	21.31	21.28	21.17	22.50
		27	0	21.01	20.06	19.89	19.93	19.95	21.50
Dana alvoi altib	Madulatian	DD sins	DD -#+	Channel	Channel	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	39750	40620	41490	40185	41055	Tune up
		1	0	23.21	21.93	22.16	21.83	22.16	23.50
		1	50	23.07	22.43	22.15	22.33	22.02	23.50
		1	99	22.59	21.92	22.43	21.73	22.51	23.50
	QPSK	50	0	22.03	22.08	21.92	22.26	21.73	23.50
		50	25	21.87	22.88	21.69	22.81	21.55	23.50
		50	50	21.66	22.98	21.77	22.96	21.77	23.50
20MHz		100	0	21.93	21.29	21.08	21.48	21.23	22.50
201011 12		1	0	22.47	20.80	20.89	20.98	20.89	22.50
		1	50	22.18	21.40	21.45	21.36	21.44	22.50
		1	99	21.80	20.73	20.61	20.76	20.67	22.50
	16QAM	12	0	22.15	21.09	20.70	20.97	20.56	22.50
		12	44	22.19	21.54	21.29	21.40	21.26	22.50
		12	88	22.49	21.58	20.88	21.68	20.96	22.50
		27	0	21.09	20.07	19.74	19.98	19.65	21.50

	LTE Baı	nd 66		Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun		
Dandwidth	Modulation	RD SIZE	RD Ollset	131979	132322	132665	Tune up		
		1	0	22.97	23.02	22.80	24.00		
		1	2	23.15	23.13	22.40	24.00		
		1	5	22.15	22.91	22.72	24.00		
	QPSK	3	0	23.08	23.02	22.08	24.00		
		3	1	23.25	23.21	22.24	24.00		
		3	3	22.39	22.32	22.91	24.00		
1.4MHz		6	0	21.48	21.32	21.17	23.00		
1.411172		1	0	21.76	21.98	21.71	23.00		
		1	2	21.98	22.11	21.28	23.00		
		1	5	21.88	21.78	21.64	23.00		
	16QAM	3	0	21.90	22.22	21.05	23.00		
		3	1	22.08	22.42	21.12	23.00		
		3	3	21.25	21.24	21.93	23.00		
		6	0	20.43	20.60	20.22	22.00		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		



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				131987	132322	132657	
		1	0	22.97	23.13	22.38	24.00
		1	7	23.38	23.52	22.76	24.00
		1	14	22.51	22.70	22.22	24.00
	QPSK	8	0	22.66	22.90	22.48	24.00
		8	4	22.04	22.94	22.51	24.00
		8	7	22.76	22.80	22.07	24.00
		15	0	21.71	21.85	21.26	23.00
3MHz		1	0	21.99	22.05	21.81	23.00
		1	7	22.42	22.42	22.05	23.00
		1	14	21.55	21.55	21.56	23.00
	16QAM	8	0	21.68	21.79	21.47	23.00
	100,441	8	4	21.96	21.98	21.64	23.00
		8	7	21.77	21.65	21.24	23.00
		15	0	20.70	20.81	20.31	22.00
		10	Ů	Channel	Channel	Channel	22.00
Bandwidth	Modulation	RB size	RB offset	131997	132322	132647	Tune up
		1	0	22.99	23.13	22.79	24.00
		1	13	22.55	22.65	22.36	24.00
		1	24	22.81	22.54	22.57	24.00
	QPSK	12	0	22.85	22.62	22.55	24.00
	Qi Sit	12	6	22.82	22.51	22.32	24.00
		12	13	22.76	22.71	22.53	24.00
		25	0	21.76	21.85	21.22	23.00
5MHz		1	0	22.04	22.53	21.70	23.00
		1	13	21.79	22.04	21.70	23.00
		1	24		+		
	16QAM	12	0	21.93 21.88	21.94	21.24	23.00
	IbQAW		6		21.26	21.64	23.00
		12		21.87	21.16	21.46	23.00
		12 25	13 0	21.80	21.78	21.68	23.00
		25	U	20.78	20.83	20.40	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel 132622	Tune up
		1	0	132022	132322		24.00
		1	_	23.38	23.15	22.26	24.00
		1	25	22.85	22.91 22.31	22.43 22.24	24.00
	QPSK	1 12	49	22.69	ļ		24.00
	QPSK		0	22.30	22.81	22.87	24.00
		25	6	22.38	22.97	22.45	24.00
		25	13	22.92	22.36	22.77	24.00
10MHz		50	0	21.92	21.94	21.38	23.00
		1	0	22.45	22.22	21.45	23.00
		1	25	21.95	21.89	21.67	23.00
	400	1	49	21.78	21.20	21.49	23.00
	16QAM	12	0	22.23	22.19	21.90	23.00
		12	19	21.94	21.99	21.38	23.00
		12	38	21.09	22.14	21.32	23.00
		27	0	21.36	21.23	20.83	22.00
					I Channal	Channal	
Bandwidth	Modulation	RB size	RB offset	Channel 132047	Channel 132322	Channel 132597	Tune up



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				ū			
		1	38	22.73	22.49	22.18	24.00
		1	74	22.30	22.49	22.88	24.00
		36	0	22.36	22.10	22.19	24.00
		36	18	22.54	22.92	22.81	24.00
		36	39	22.78	22.42	22.80	24.00
		75	0	21.75	21.77	21.28	23.00
		1	0	22.16	22.28	21.88	23.00
		1	38	21.71	21.64	21.20	23.00
		1	74	21.30	21.45	21.97	23.00
	16QAM	12	0	22.17	22.22	21.50	23.00
		12	31	21.71	21.78	21.29	23.00
		12	63	21.54	21.15	21.77	23.00
		27	0	21.26	21.28	20.60	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tunaun
Danuwium	iviodulation	KD SIZE	KD Ollset	132072	132322	132572	Tune up
		1	0	23.21	23.03	22.84	24.00
		1	50	22.89	22.73	22.51	24.00
		1	99	22.06	22.99	22.19	24.00
	QPSK	50	0	22.54	22.32	22.70	24.00
		50	25	22.79	22.09	22.26	24.00
		50	50	22.36	22.36	22.36	24.00
20MHz		100	0	21.56	21.54	21.25	23.00
ZUIVITZ		1	0	22.52	22.08	21.86	23.00
		1	50	22.23	21.75	21.59	23.00
		1	99	21.41	21.95	21.37	23.00
	16QAM	12	0	22.13	22.29	21.72	23.00
		12	44	21.84	21.81	21.45	23.00
		12	88	21.74	21.46	21.93	23.00
İ		27	0	21.30	21.40	20.69	22.00



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### 8.1.3 Conducted Power of 2.4G wifi

Mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Average Power (dBm) Main Ant	Tune up
	1	2412		14.76	15.5
802.11b	6	2437	1	14.85	15.5
	11	2462		15.35	15.5
	1	2412		12.33	13
802.11g	6	2437	6	12.45	13
	11	2462		12.93	13
000.44	1	2412		10.15	11
802.11n HT20 SISO	6	2437	6.5	10.24	11
11120 0100	11	2462		10.51	11





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#### 8.2 Measurement of SAR Data

#### Note:

- The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B. 1)
- Per KDB 447498 D04, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
  - ≤ 0.8W/kg for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is ≤ 100MHz.
  - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
  - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz.

#### WiFi 2.4G:

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.

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	Power drift (dB)	Conducted Power(dBm)		Scaled factor		Liquid Temp.(℃)			
				Liı	mbs Test	data( 0m	m)							
Front side	GPRS 2TS	190/836.6	1:4.15	0.093	0.061	0.07	31.36	32.00	1.159	0.071	22.8			
Back side	GPRS 2TS	190/836.6	1:4.15	1.320	0.633	-0.05	31.36	32.00	1.159	0.734	22.8			
Left side	GPRS 2TS	190/836.6	1:4.15	0.670	0.442	0.14	31.36	32.00	1.159	0.512	22.8			
Right side	GPRS 2TS	190/836.6	1:4.15	0.445	0.272	0.05	31.36	32.00	1.159	0.315	22.8			
Top side	GPRS 2TS	190/836.6	1:4.15	0.801	0.477	0.05	31.36	32.00	1.159	0.553	22.8			
Bottom side	GPRS 2TS	190/836.6	1:4.15	0.535	0.318	-0.09	31.36	32.00	1.159	0.368	22.8			





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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)	Conducted Power(dBm)		Scaled factor		Liquid Temp.(℃)		
				Limbs	s Test da	ta( 0mn	n)						
Front side	GPRS 2TS	661/1880	1:4.15	0.446	0.257	0.19	28.02	29.00	1.253	0.322	22.8		
Back side	GPRS 2TS	661/1880	1:4.15	3.830	1.800	-0.12	28.02	29.00	1.253	2.256	22.8		
Left side	GPRS 2TS	661/1880	1:4.15	1.270	0.613	-0.16	28.02	29.00	1.253	0.768	22.8		
Right side	GPRS 2TS	661/1880	1:4.15	0.680	0.309	0.01	28.02	29.00	1.253	0.387	22.8		
Top side	GPRS 2TS	661/1880	1:4.15	0.880	0.489	0.16	28.02	29.00	1.253	0.613	22.8		
Bottom side	GPRS 2TS	661/1880	1:4.15	0.672	0.312	-0.15	28.02	29.00	1.253	0.391	22.8		
Back side	GPRS 2TS	512/1850.2	1:4.15	3.604	1.703	0.13	28.18	29.00	1.208	2.057	22.8		
Back side	GPRS 2TS	810/1909.8	1:4.15	3.550	1.654	0.10	27.79	29.00	1.321	2.185	22.8		





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#### 8.2.3 SAR Result of LTE Band 2

				Ľ	TE Band	2 SAR Te	st Reco	rd				
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)			Scaled SAR 10- g (W/kg)	Liquid Temp.(℃)
					Limbs Te	st data (0r	nm 1RB)					
Front side	Front side 20 QPSK 1_50 18700/1860 1:1 0.293 0.175 0.01 22.19 23.50 1.352 0.237 22.8											
Back side	20	QPSK 1_50	18700/1860	1:1	4.090	1.960	0.05	22.19	23.50	1.352	2.650	22.8
Left side	20	QPSK 1_50	18700/1860	1:1	1.040	0.477	0.05	22.19	23.50	1.352	0.645	22.8
Right side	20	QPSK 1_50	18700/1860	1:1	0.646	0.347	0.07	22.19	23.50	1.352	0.469	22.8
Top side	20	QPSK 1_50	18700/1860	1:1	1.120	0.624	-0.09	22.19	23.50	1.352	0.844	22.8
Bottom side	20	QPSK 1_50	18700/1860	1:1	0.686	0.359	-0.08	22.19	23.50	1.352	0.485	22.8
Back side	20	QPSK 1_0	18900/1880	1:1	3.380	1.590	-0.05	21.95	23.50	1.429	2.272	22.8
Back side	20	QPSK 1_0	19100/1900	1:1	3.390	1.600	-0.12	21.72	23.50	1.507	2.411	22.8
				Li	imbs Test	data (0mi	m 50%RI	В)				
Front side	20	QPSK 50_0	19100/1900	1:1	0.247	0.148	0.01	22.10	22.50	1.096	0.162	22.8
Back side	20	QPSK 50_0	19100/1900	1:1	3.410	1.580	-0.07	22.10	22.50	1.096	1.732	22.8
Left side	20	QPSK 50_0	19100/1900	1:1	0.800	0.379	0.05	22.10	22.50	1.096	0.416	22.8
Right side	20	QPSK 50_0	19100/1900	1:1	0.578	0.312	-0.08	22.10	22.50	1.096	0.342	22.8
Top side	20	QPSK 50_0	19100/1900	1:1	0.886	0.496	-0.02	22.10	22.50	1.096	0.544	22.8
Bottom side	20	QPSK 50_0	18700/1860	1:1	0.501	0.255	-0.09	22.19	23.50	1.352	0.345	22.8
_				Liı	mbs Test	data (0mn	n 100%R	(B)				
Back side	20	QPSK 100_0	18900/1880	1:1	3.301	1.490	-0.09	21.50	22.50	1.259	1.876	22.8





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### 8.2.4 SAR Result of LTE Band 4

	LTE Band 4 SAR Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)			Scaled SAR 10- g (W/kg)	Liquid Temp.(℃)	
					Limbs Te	st data (0r	nm 1RB)						
Front side	20	QPSK 1_50	20175/1732.5	1:1	0.330	0.191	0.18	22.23	23.00	1.194	0.228	22.1	
Back side	20	QPSK 1_50	20175/1732.5	1:1	3.010	1.280	-0.07	22.23	23.00	1.194	1.528	22.1	
Left side	20	QPSK 1_50	20175/1732.5	1:1	0.944	0.458	0.04	22.23	23.00	1.194	0.547	22.1	
Right side	20	QPSK 1_50	20175/1732.5	1:1	0.820	0.425	0.08	22.23	23.00	1.194	0.507	22.1	
Top side	20	QPSK 1_50	20175/1732.5	1:1	0.692	0.401	-0.14	22.23	23.00	1.194	0.479	22.1	
Bottom side	20	QPSK 1_50	20175/1732.5	1:1	0.668	0.341	-0.11	22.23	23.00	1.194	0.407	22.1	
Back side	20	QPSK 1_0	20050/1720	1:1	3.570	1.490	-0.03	22.10	23.00	1.230	1.833	22.1	
Back side	20	QPSK 1_99	20300/1745	1:1	3.190	1.500	-0.19	21.88	23.00	1.294	1.941	22.1	
				Li	imbs Test	data (0m	m 50%RI	3)					
Front side	20	QPSK 50_0	20050/1720	1:1	0.360	0.206	0.15	21.57	22.00	1.104	0.227	22.1	
Back side	20	QPSK 50_0	20050/1720	1:1	3.110	1.370	0.11	21.57	22.00	1.104	1.513	22.1	
Left side	20	QPSK 50_0	20050/1720	1:1	1.090	0.505	-0.05	21.57	22.00	1.104	0.558	22.1	
Right side	20	QPSK 50_0	20050/1720	1:1	1.030	0.526	0.02	21.57	22.00	1.104	0.581	22.1	
Top side	20	QPSK 50_0	20050/1720	1:1	0.777	0.450	-0.05	21.57	22.00	1.104	0.497	22.1	
Bottom side	Bottom side   20   QPSK 50_0   20050/1720   1:1   0.792   0.400   -0.09   22.23   23.00   1.194   0.478   22.1												
				Liı	mbs Test	data (0mn	n 100%R	B)					
Back side	20	QPSK 100_0	20050/1720	1:1	2.980	1.320	0.15	20.77	22.00	1.327	1.752	22.1	





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### 8.2.5 SAR Result of LTE Band 5

	LTE Band 5 SAR Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)			Scaled SAR 10- g (W/kg)	Liquid Temp.(℃)	
				Li	imbs Tes	t data (0r	nm 1RB)						
Front side	10	QPSK 1_0	20450/829	1:1	0.050	0.032	-0.12	22.82	23.50	1.169	0.037	22.8	
Back side	10	QPSK 1_0	20450/829	1:1	0.754	0.381	-0.07	22.82	23.50	1.169	0.446	22.8	
Left side	10	QPSK 1_0	20450/829	1:1	0.598	0.371	0.08	22.82	23.50	1.169	0.434	22.8	
Right side	10	QPSK 1_0	20450/829	1:1	0.478	0.297	0.09	22.82	23.50	1.169	0.347	22.8	
Bottom side	10	QPSK 1_0	20450/829	1:1	0.316	0.183	-0.04	22.82	23.50	1.169	0.214	22.8	
Top side	10	QPSK 1_0	20450/829	1:1	0.394	0.243	0.11	22.82	23.50	1.169	0.284	22.8	
				Lim	bs Test	data (0mr	n 50%RE	3)					
Front side	10	QPSK 25_13	20450/829	1:1	0.046	0.031	0.12	21.90	22.50	1.148	0.036	22.8	
Back side	10	QPSK 25_13	20450/829	1:1	0.849	0.420	0.06	21.90	22.50	1.148	0.482	22.8	
Back side	10	QPSK 25_25	20525/836.5	1:1	0.452	0.227	0.09	21.70	22.50	1.202	0.273	22.8	
Back side	10	QPSK 25_25	20600/844	1:1	0.485	0.239	0.12	21.85	22.50	1.161	0.278	22.8	
Left side	10	QPSK 25_13	20450/829	1:1	0.353	0.231	0.09	21.90	22.50	1.148	0.265	22.8	
Right side	10	QPSK 25_13	20450/829	1:1	0.267	0.171	-0.04	21.90	22.50	1.148	0.196	22.8	
Bottom side	10	QPSK 25_13	20450/829	1:1	0.351	0.203	-0.04	21.90	22.50	1.148	0.233	22.8	
Top side	10	QPSK 25_13	20450/829	1:1	0.448	0.274	0.09	21.90	22.50	1.148	0.315	22.8	





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#### 8.2.6 SAR Result of LTE Band 7

	LTE Band 7 SAR Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)			Scaled SAR 10- g (W/kg)	Liquid Temp.(℃)	
	Limbs Test data (0mm 1RB)												
Front side	20	QPSK 1_99	20850/2510	1:1	0.365	0.162	-0.05	22.85	23.50	1.161	0.188	22.3	
Back side	20	QPSK 1_99	20850/2510	1:1	5.210	2.080	0.05	22.85	23.50	1.161	2.416	22.3	
Back side-Repeat	20	QPSK 1_99	20850/2510	1:1	4.980	1.860	0.05	22.85	23.50	1.161	2.160	22.3	
Left side	20	QPSK 1_99	20850/2510	1:1	1.610	0.767	0.11	22.85	23.50	1.161	0.891	22.3	
Right side	20	QPSK 1_99	20850/2510	1:1	0.587	0.295	-0.04	22.85	23.50	1.161	0.343	22.3	
Bottom side	20	QPSK 1_99	20850/2510	1:1	0.389	0.172	0.15	22.85	23.50	1.161	0.200	22.3	
Top side	20	QPSK 1_99	20850/2510	1:1	0.391	0.172	0.01	22.85	23.50	1.161	0.200	22.3	
Back side	20	QPSK 1_99	21100/2535	1:1	4.200	1.489	0.02	22.50	23.50	1.259	1.875	22.3	
Back side	20	QPSK 1_99	21350/2560	1:1	4.101	1.511	0.08	22.46	23.50	1.271	1.920	22.3	
				Limbs	Test da	ta (0mm	50%RB	)					
Front side	20	QPSK 50_50	20850/2510	1:1	0.188	0.077	-0.07	21.71	22.50	1.199	0.092	22.3	
Back side	20	QPSK 50_50	20850/2510	1:1	4.040	1.391	0.09	21.71	22.50	1.199	1.669	22.3	
Left side	20	QPSK 50_50	20850/2510	1:1	0.847	0.371	-0.04	21.71	22.50	1.199	0.445	22.3	
Right side	20	QPSK 50_50	20850/2510	1:1	0.284	0.136	0.09	21.71	22.50	1.199	0.163	22.3	
Bottom side	20	QPSK 50_50	20850/2510	1:1	1.193	0.515	0.18	21.71	22.50	1.199	0.618	22.3	
Top side	20	QPSK 50_50	20850/2510	1:1	0.240	0.119	-0.02	21.71	22.50	1.199	0.143	22.3	
				Limbs	Test dat	a (0mm	100%RE	3)					
Back side	20	QPSK 100_0	21350/2560	1:1	4.151	1.401	0.09	21.78	22.50	1.180	1.654	22.3	

Test Position	Channel/ Frequency	Measured SAR (10g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)		SAR (10g)		SAR (10g)	SAR (10g)
Back side	20850/2510	2.08	1.86	1.11827957	N/A	N/A

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

- 2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 3) A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
- 5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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#### 8.2.7 SAR Result of LTE Band 38

	LTE Band 38 SAR Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)
				Li	mbs Test	data (0m	m 1RB)					
Front side	20	QPSK 1_0	37850/2580	1:1.58	0.190	0.084	0.02	23.39	24.00	1.151	0.097	22.3
Back side	20	QPSK 1_0	37850/2580	1:1.58	2.850	1.150	0.11	23.39	24.00	1.151	1.323	22.3
Left side	20	QPSK 1_0	37850/2580	1:1.58	0.579	0.278	0.02	23.39	24.00	1.151	0.320	22.3
Right side	20	QPSK 1_0	37850/2580	1:1.58	0.236	0.118	0.19	23.39	24.00	1.151	0.136	22.3
Bottom side	20	QPSK 1_0	37850/2580	1:1.58	0.546	0.258	0.08	23.39	24.00	1.151	0.297	22.3
Top side	20	QPSK 1_0	37850/2580	1:1.58	0.249	0.133	0.15	23.39	24.00	1.151	0.153	22.3
				Lim	bs Test d	lata (0mm	1 50%RB	)				
Front side	20	QPSK 50_0	37850/2580	1:1.58	0.200	0.082	-0.12	22.67	24.00	1.358	0.111	22.3
Back side	20	QPSK 50_0	37850/2580	1:1.58	3.750	1.480	0.09	22.67	24.00	1.358	2.010	22.3
Left side	20	QPSK 50_0	37850/2580	1:1.58	0.474	0.232	0.00	22.67	24.00	1.358	0.315	22.3
Right side	20	QPSK 50_0	37850/2580	1:1.58	0.199	0.101	0.09	22.67	24.00	1.358	0.137	22.3
Bottom side	20	QPSK 50_0	37850/2580	1:1.58	0.447	0.215	-0.04	22.67	24.00	1.358	0.292	22.3
Top side	20	QPSK 50_0	37850/2580	1:1.58	0.227	0.120	0.15	22.67	24.00	1.358	0.163	22.3
Back side	20	QPSK 50_50	38000/2595	1:1.58	2.430	0.962	0.02	22.53	24.00	1.403	1.350	22.3
Back side	Back side   20   QPSK 50_50   38150/2610   1:1.58   2.220   0.882   0.11   22.30   24.00   1.479   1.305   22.3											
_				Limb	os Test da	ata (0mm	100%RE	3)				
Back side	20	QPSK 100_0	37850/2580	1:1.58	3.450	1.312	0.11	22.21	23.00	1.199	1.574	22.3





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### 8.2.8 SAR Result of LTE Band 41

	LTE Band 41 SAR Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor		Liquid Temp.(℃)	
				Lir	nbs Test	data (0m	m 1RB)						
Front side	20	QPSK 1_0	39750/2506	1:1.58	0.126	0.056	0.02	23.21	23.50	1.069	0.060	22.3	
Back side	20	QPSK 1_0	39750/2506	1:1.58	2.930	1.090	0.15	23.21	23.50	1.069	1.165	22.3	
Left side	20	QPSK 1_0	39750/2506	1:1.58	0.639	0.317	0.00	23.21	23.50	1.069	0.339	22.3	
Right side	20	QPSK 1_0	39750/2506	1:1.58	0.221	0.116	0.02	23.21	23.50	1.069	0.124	22.3	
Bottom side	20	QPSK 1_0	39750/2506	1:1.58	1.170	0.551	0.19	23.21	23.50	1.069	0.589	22.3	
Top side	20	QPSK 1_0	39750/2506	1:1.58	0.195	0.103	0.08	23.21	23.50	1.069	0.110	22.3	
Back side	20	QPSK 1_50	40620/2593	1:1.58	2.530	0.960	0.02	22.43	23.50	1.279	1.228	22.3	
Back side	20	QPSK 1_99	41490/2680	1:1.58	2.640	0.998	0.11	22.43	23.50	1.279	1.277	22.3	
Back side	20	QPSK 1_50	40185/2549.5	1:1.58	3.450	1.400	0.09	22.33	23.50	1.309	1.833	22.3	
Back side	20	QPSK 1_99	41055/2636.5	1:1.58	2.110	0.802	0.02	22.51	23.50	1.256	1.007	22.3	
				Liml	os Test d	ata (0mm	50%RB	)					
Top side	20	QPSK 50_50	40620/2593	1:1.58	0.175	0.091	-0.07	22.98	23.50	1.127	0.103	22.3	
Front side	20	QPSK 50_50	40620/2593	1:1.58	0.148	0.062	0.15	22.98	23.50	1.127	0.070	22.3	
Back side	20	QPSK 50_50	40620/2593	1:1.58	1.670	0.648	0.02	22.98	23.50	1.127	0.730	22.3	
Left side	20	QPSK 50_50	40620/2593	1:1.58	0.316	0.158	0.00	22.98	23.50	1.127	0.178	22.3	
Right side	20	QPSK 50_50	40620/2593	1:1.58	0.154	0.077	0.08	22.98	23.50	1.127	0.087	22.3	
Bottom side	20	QPSK 50_50	40620/2593	1:1.58	0.309	0.143	0.18	22.98	23.50	1.127	0.161	22.3	





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#### 8.2.9 SAR Result of LTE Band 66

LTE Band 66 SAR Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)
				Lir	nbs Test	data (0r	nm 1RB	)				
Front side 20 QPSK 1_0 132072/1720 1:1 0.336 0.190 0.15 23.21 24.00 1.199 0.228 22.1												
Back side	20	QPSK 1_0	132072/1720	1:1	2.870	1.370	0.03	23.21	24.00	1.199	1.643	22.1
Left side	20	QPSK 1_0	132072/1720	1:1	1.012	0.476	0.15	23.21	24.00	1.199	0.571	22.1
Right side	20	QPSK 1_0	132072/1720	1:1	0.760	0.408	0.02	23.21	24.00	1.199	0.489	22.1
Bottom side	20	QPSK 1_0	132072/1720	1:1	0.661	0.329	0.11	23.21	24.00	1.199	0.395	22.1
Top side	20	QPSK 1_0	132072/1720	1:1	0.658	0.377	-0.12	23.21	24.00	1.199	0.452	22.1
Back side	20	QPSK 1_0	132322/1745	1:1	2.915	1.218	0.09	23.03	24.00	1.250	1.523	22.1
Back side	20	QPSK 1_0	132572/1770	1:1	2.801	1.180	-0.05	22.84	24.00	1.306	1.541	22.1
				Liml	os Test c	lata (0mi	m 50%R	B)				
Front side	20	QPSK 50_25	132072/1720	1:1	0.298	0.170	-0.05	22.79	24.00	1.321	0.225	22.1
Back side	20	QPSK 50_25	132072/1720	1:1	2.474	1.073	0.02	22.79	24.00	1.321	1.418	22.1
Left side	20	QPSK 50_25	132072/1720	1:1	0.944	0.420	-0.05	22.79	24.00	1.321	0.555	22.1
Right side	20	QPSK 50_25	132072/1720	1:1	0.664	0.358	0.15	22.79	24.00	1.321	0.473	22.1
Bottom side	20	QPSK 50_25	132072/1720	1:1	0.587	0.290	0.02	22.79	24.00	1.321	0.383	22.1
Top side	20	QPSK 50_25	132072/1720	1:1	0.545	0.319	-0.05	22.79	24.00	1.321	0.421	22.1





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#### 8.2.10 SAR Result of WIFI 2.4G

	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 SAR 10-g (W/kg)	Liquid Temp.(℃)	
					Limbs	Test data	(0mm)						
Back side	802.11b	11/2462	99.94%	1.001	0.003	0.002	0.15	15.35	15.5	1.035	0.002	22.4	
Left side	802.11b	11/2462	99.94%	1.001	0.005	0.002	0.00	15.35	15.5	1.035	0.002	22.4	
Right side	802.11b	11/2462	99.94%	1.001	0.007	0.003	0.15	15.35	15.5	1.035	0.003	22.4	
Top side	802.11b	11/2462	99.94%	1.001	0.003	0.002	0.02	15.35	15.5	1.035	0.002	22.4	
Bottom side	802.11b	11/2462	99.94%	1.001	0.014	0.007	0.11	15.35	15.5	1.035	0.007	22.4	
Front side	802.11b	11/2462	99.94%	1.001	0.024	0.011	0.15	15.35	15.5	1.035	0.011	22.4	
Front side	802.11b	6/2437	99.94%	1.001	0.033	0.013	-0.11	15.35	15.5	1.035	0.013	22.4	
Front side	802.11b	1/2412	99.94%	1.001	0.036	0.017	0.04	15.35	15.5	1.035	0.017	22.4	





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#### **Multiple Transmitter Evaluation** 8.3

### 8.3.1 Simultaneous SAR test evaluation

No.	Simultaneous Tx Combination	Limbs (0mm)
1	WWAN + WLAN 2.4GHz	Yes





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### 8.3.2 Simultaneous Transmission SAR Summation Scenario

### Limbs:

		SAF	Rmax (W/kg)	
Test p	position	Main	WiFi 2.4G	Summed SAR
		1	2	1+2
	Front side	0.071	0.017	0.088
	Back side	0.734	0.002	0.736
0014050	Left side	0.512	0.002	0.514
GSM850	Right side	0.315	0.003	0.318
	Top side	0.553	0.002	0.555
	Bottom side	0.368	0.007	0.375
	Front side	0.322	0.017	0.339
	Back side	2.256	0.002	2.258
00144000	Left side	0.768	0.002	0.770
GSM1900	Right side	0.387	0.003	0.390
	Top side	0.613	0.002	0.615
	Bottom side	0.391	0.007	0.398
	Front side	0.237	0.017	0.254
	Back side	2.650	0.002	2.652
LTE B2	Left side	0.645	0.002	0.647
LIE B2	Right side	0.469	0.003	0.472
	Top side	0.844	0.002	0.846
	Bottom side	0.485	0.007	0.492
	Front side	0.228	0.017	0.245
	Back side	1.941	0.002	1.943
LTE D4	Left side	0.558	0.002	0.560
LTE B4	Right side	0.581	0.003	0.584
	Top side	0.497	0.002	0.499
	Bottom side	0.478	0.007	0.485
	Front side	0.037	0.017	0.054
	Back side	0.482	0.002	0.484
LTE B5	Left side	0.434	0.002	0.436
LIE DO	Right side	0.347	0.003	0.350
	Top side	0.315	0.002	0.317
	Bottom side	0.233	0.007	0.240
	Front side	0.188	0.017	0.205
	Back side	2.416	0.002	2.418
LTE B7	Left side	0.891	0.002	0.893
LIE D/	Right side	0.343	0.003	0.346
	Top side	0.200	0.002	0.202
	Bottom side	0.618	0.007	0.625
	Front side	0.111	0.017	0.128
	Back side	2.010	0.002	2.012
LTE B38	Left side	0.320	0.002	0.322
LIL DO	Right side	0.137	0.003	0.140
	Top side	0.163	0.002	0.165
	Bottom side	0.297	0.007	0.304
LTE B41	Front side	0.070	0.017	0.087



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	Back side	1.833	0.002	1.835
	Left side	0.339	0.002	0.341
	Right side	0.124	0.003	0.127
	Top side	0.110	0.002	0.112
	Bottom side	0.589	0.007	0.596
	Front side	0.228	0.017	0.245
	Back side	1.643	0.002	1.645
LTE B66	Left side	0.571	0.002	0.573
LIE BOO	Right side	0.489	0.003	0.492
	Top side	0.452	0.002	0.454
	Bottom side	0.395	0.007	0.402



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	Test Platform SPEAG DASY Professional								
	Description	SAR Test Syste	m						
So	ftware Reference	DASY52 52.10.	4(1527); SEMC	AD X 14.6.14(7483)					
			Hardware Ro	eference					
	Equipment	Manufacturer	Model	Inventory No.	Calibration Date	Due date of calibration			
	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-020	NCR	NCR			
	DAE	SPEAG	DAE4	SZ-WSR-M-081	2024/08/15	2025/08/14			
$\boxtimes$	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-082	2024/09/19	2025/09/18			
$\boxtimes$	Validation Kits	SPEAG	D835V2	SZ-WSR-M-033	2022/11/02	2025/11/01			
	Validation Kits	SPEAG	D1750V2	SZ-WSR-M-035	2022/06/17	2025/06/16			
$\boxtimes$	Validation Kits	SPEAG	D1900V2	SZ-WSR-M-036	2022/11/02	2025/11/01			
$\boxtimes$	Validation Kits	SPEAG	D2450V2	SZ-WSR-M-039	2022/11/02	2025/11/01			
$\boxtimes$	Validation Kits	SPEAG	D2600V2	SZ-WSR-M-040	2022/06/14	2025/06/13			
$\boxtimes$	Dielectric parameter probes	SPEAG	DAKS-3.5	SZ-WSR-M-053	2024/06/26	2025/06/25			
$\boxtimes$	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	SZ-WSR-M-054	2024/06/26	2025/06/25			
$\boxtimes$	RF Bi-Directional Coupler	Agilent	86205- 60001	SZ-WSR-A-004	NCR	NCR			
	Signal Generator	Agilent	N5171B	SZ-WSR-M-006	2025/01/07	2026/01/06			
	Preamplifier	Mini-Circuits	ZHL-42W	SZ-WSR-A-001	NCR	NCR			
$\boxtimes$	Preamplifier	Compliance Directions Systems Inc.	AMP28-3W	SZ-WSR-A-002	NCR	NCR			
$\boxtimes$	Power Meter	Agilent	E4416A	SZ-WSR-M-007	2025/01/07	2026/01/06			
	Power Sensor	Agilent	8481H	SZ-WSR-M-008	2025/01/07	2026/01/06			
$\boxtimes$	Power Sensor	R&S	NRP-Z92	SZ-WSR-M-009	2025/01/08	2026/01/07			
$\boxtimes$	Attenuator	SHX	TS2-3dB	SZ-WSR-A-012	NCR	NCR			
$\boxtimes$	Speed reading thermometer	Zhengzhou Boyang Instrument	TP3001	SZ-WSR-M-014	2024/05/30	2025/05/29			
	Temperature	MingGao	T809	SZ-WSR-M-015	2024/05/30	2025/05/29			
	Temperature	MingGao	T809	SZ-WSR-M-016	2024/05/30	2025/05/29			
$\boxtimes$	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-012	2024/05/28	2025/05/27			

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



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#### 10 Calibration certificate

Please see the Appendix C

#### **Photographs** 11

Please see the Appendix D

**Appendix A: Detailed System Check Results** 

**Appendix B: Detailed Test Results** 

**Appendix C: Calibration certificate** 

**Appendix D: Photographs** 

--- End of report ---



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