


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

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

Report No.: SZCR250600239310

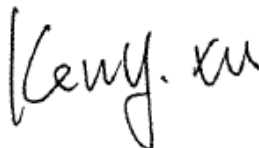
Page: 1 of 60

FCC SAR TEST REPORT

Application No.: SZCR2506002393AT
Applicant: Vanstone Electronic (Beijing) Co., Ltd.
Address of Applicant: 3F No.2 Building, Aisino Corporation Park 18A, Xingshikou Road, Haidian District, Beijing, China 100195
Manufacturer: Vanstone Electronic (Beijing) Co., Ltd.
Address of Manufacturer: 3F No.2 Building, Aisino Corporation Park 18A, Xingshikou Road, Haidian District, Beijing, China 100195
EUT Description: Android POS Terminal
Model No.: A90 Pro
Trade Mark: 
FCC ID: OWLA90-PRO-B
Standards: FCC 47CFR §2.1093
Date of Receipt: 2025-06-09
Date of Test: 2025-06-11 to 2025-06-25
Date of Issue: 2025-06-30

Test Result :	PASS *
----------------------	---------------

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



Keny Xu
EMC Laboratory Manager



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

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-06-30		Original

Authorized for issue by:				
		Calvin Weng		
		Calvin Weng/Project Engineer		
		Roman Pan		
		Roman Pan/Reviewer		



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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)
	Extremity
GSM850	2.30
GSM1900	1.33
WCDMA Band II	2.56
WCDMA Band IV	1.24
WCDMA Band V	1.15
LTE Band 2	2.63
LTE Band 4	1.45
LTE Band 5	1.17
LTE Band 7	3.47
LTE Band 38	3.12
WI-FI (2.4GHz)	0.66
BT	0.12
SAR Limited(W/kg)	4.0
Maximum Simultaneous Transmission SAR (W/kg)	
Scenario	Extremity
Sum SAR	3.59



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1 General Information

1.1 General Description of EUT

Product Name:	Android POS Terminal		
Model No.:	A90 Pro		
Trade Mark:			
Product Phase:	production unit		
Device Type:	portable device		
Exposure Category:	uncontrolled environment / general population		
IMEI:	00082010600		
Hardware Version:	V1.08		
Software Version:	V1.08		
Antenna Type:	PIFA antenna		
Device Operating Configurations:			
Modulation Mode:	GSM: GMSK,8PSK; WCDMA: QPSK LTE: QPSK,16QAM; WIFI: DSSS,OFDM; BT: GFSK, π/4DQPSK,8DPSK		
Device Class:	B		
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12
HSDPA UE Category:	14	HSUPA UE Category:	6
Frequency Bands:	Band	Tx(MHz)	
	GSM850	824~849	
	GSM1900	1850~1910	
	WCDMA Band II	1850~1910	
	WCDMA Band IV	1710~1755	
	WCDMA Band V	824~849	
	LTE Band 2	1850 ~1910	
	LTE Band 4	1710~1755	
	LTE Band 5	824~849	
	LTE Band 7	2500~2570	
	LTE Band 38	2570~2620	
	WIFI 2.4G	2412~2462	
	BT	2402~2480	

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	NFC	13.56
RF Cable:	<input checked="" type="checkbox"/> Provided by applicant <input type="checkbox"/> Provided by the laboratory	
Battery Information:	Model:	BT-901
	Normal Voltage :	DC3.60V
	Rated capacity :	5200mAh
	Battery Type :	Rechargeable Li-polymer Battery
	Manufacturer1	MEI ZHOU BO FU NENG TECHNOLOGY CO.,LTD
<p>Note:</p> <p>*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.</p> <p>Remark:</p> <p>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.</p>		

1.1.1 DUT Antenna Locations

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 D01	3G SAR Measurement Procedures v03r01
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 D01	Interim General RF Exposure Guidance v06
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03



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1.3 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:

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

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

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

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.)



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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- 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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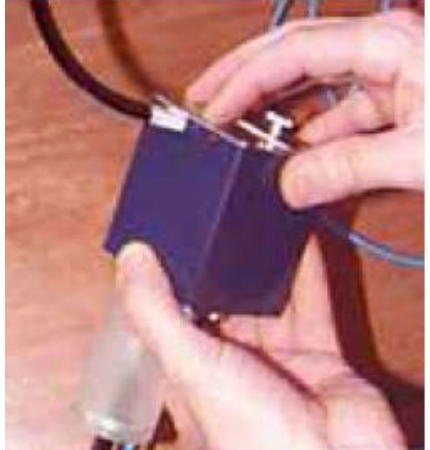
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3.2 Isotropic E-field Probe EX3DV4

	<p>Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)</p>
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 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/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

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.

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.

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 $\epsilon=3$ 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.

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

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

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



		$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location		$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$		$\leq 2 \text{ GHz}: \leq 15 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 12 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 12 \text{ mm}$ $4 - 6 \text{ GHz}: \leq 10 \text{ mm}$
		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$		$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz}: \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz}: \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$	$\leq 5 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	graded grid $\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	$\leq 4 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 3 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z	$\geq 30 \text{ mm}$	$3 - 4 \text{ GHz}: \geq 28 \text{ mm}$ $4 - 5 \text{ GHz}: \geq 25 \text{ mm}$ $5 - 6 \text{ GHz}: \geq 22 \text{ mm}$

Step 4: Power reference measurement (drift)

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

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:	- Frequency	f
- Crest factor	cf	
Media parameters:	- Conductivity	ε
- 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.

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:

$$V_i = U_i + U_i^2 \cdot cf / dcp_i$$

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

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

cf = crest factor of exciting field (DASY parameter)

dcp I = diode compression point (DASY parameter)

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



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

H-field probes:

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

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

$Norm_i$ = sensor sensitivity of channel I (I = x, y, z)

[mV/(V/m)²] for E-field Probes

$ConvF$ = sensitivity enhancement in solution

a_{ij} = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

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

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

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

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

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

$$SAR = (E_{tot}^2 \cdot \sigma) / (\epsilon \cdot 1000)$$

with SAR = local specific absorption rate in mW/g

E_{tot} = total field strength in V/m

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

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.

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

with P_{pwe} = equivalent power density of a plane wave in mW/cm²

E_{tot} = total electric field strength in V/m

H_{tot} = total magnetic field strength in A/m



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 tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is 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 ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

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

4.2 SAR measurement uncertainty

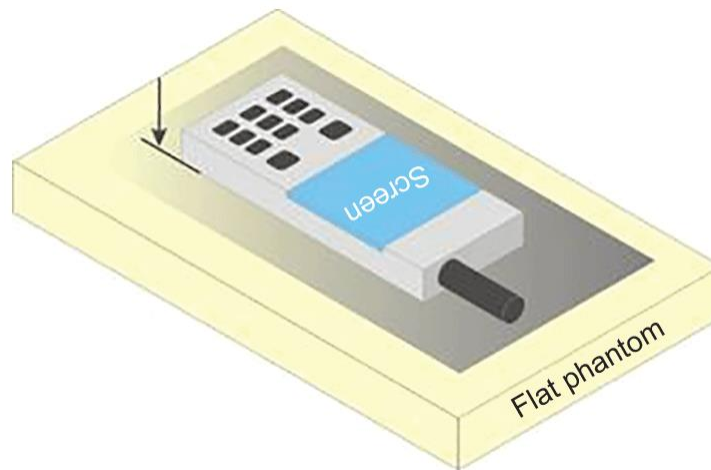
Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6)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



5 Description of Test Position

5.1 Hand-held usage of the device, not at the head or torso

When SAR measurement is necessary for hand-held devices that do not transmit while at the head or torso, a flat phantom may be used. To assess this type of device, the device shall be placed directly against the flat phantom as shown in the below Figure, for the sides of the device that are in contact with the hand for the intended use.



a) Test position for hand-held devices, not used at the head or torso

6 SAR System Verificaion Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients (% by weight)	Frequency (MHz)				
	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
Salt: 99+% Pure Sodium Chloride Water: De-ionized, 16 MQ+ resistivity Tween: Polyoxyethylene (20) sorbitan monolaurate Sucrose: 98+% Pure Sucrose HEC: Hydroxyethyl Cellulose					
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

6.1.2 Measurement for Tissue Simulate Liquid

The Conductivity (σ) and Permittivity (ϵ_r) are listed in Table 2. For the SAR measurement given in this report.

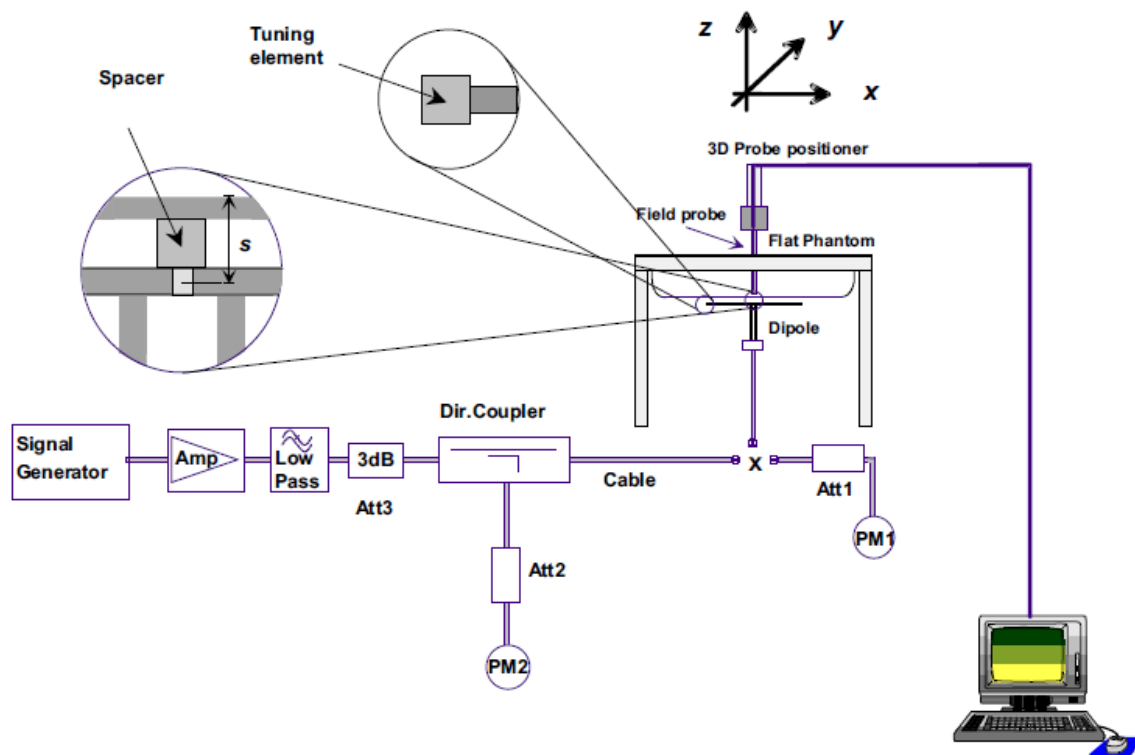
The temperature variation of the Tissue Simulate Liquids was $22 \pm 2^\circ\text{C}$.

Tissue Type	Measured Frequency (MHz)	Measured Tissue		Target Tissue ($\pm 5\%$)		Deviation (Within $\pm 5\%$)		Liquid Temp. ($^\circ\text{C}$)	Test Date
		ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$		
835 Head	835	43.207	0.890	41.50	0.90	4.11%	-1.11%	22.1	2025/6/11
1750 Head	1750	40.419	1.345	40.10	1.37	0.80%	-1.82%	21.9	2025/6/12
1950 Head	1950	40.056	1.438	40.00	1.40	0.14%	2.71%	22	2025/6/13
2450 Head	2450	40.351	1.792	39.20	1.80	2.94%	-0.44%	21.9	2025/6/14
2600 Head	2600	39.830	1.966	39.00	1.96	2.13%	0.31%	21.9	2025/6/25

Table 2 : Measurement result of Tissue electric parameters

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 $\pm 10\%$ 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 $22\pm 2^\circ\text{C}$, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above $15\pm 0.5\text{ cm}$ 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

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 5Ω from the previous measurement.

2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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6.2.2 Summary System Check Result(s)

Validation Kit	Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (°C)	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	2.27	1.48	9.08	5.92	9.53	6.29	-4.72%	-5.88%	22.1	2025/6/11
D1750V2_Head	8.84	4.79	35.36	19.16	36.70	19.60	-3.65%	-2.24%	21.9	2025/6/12
D1950V3_Head	10.5	5.48	42.80	22.48	40.50	20.80	5.68%	8.08%	22	2025/6/13
D2450V2_Head	12.50	5.89	50.00	23.56	52.20	24.30	-4.21%	-3.05%	21.9	2025/6/14
D2600V2_Head	14.60	6.64	58.40	26.56	55.90	25.30	4.47%	4.98%	21.9	2025/6/25

Table 3 : SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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7 Test Configuration

7.1 3G SAR Test Reduction Procedure

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

7.2 Operation Configurations

7.2.1 GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a base station by air link. Using 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/EGPRS 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. The EGPRS class is 12 for this EUT, it has at most 4 timeslots in uplink, and at most 4 timeslots in downlink, the maximum total timeslot is 5.

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units. 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.

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

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

7.2.2 WCDMA Test Configuration

1) . Output Power Verification

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



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2) . Head SAR

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

3) . Body SAR

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

4) . HSDPA / HSUPA

RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power for production units in HSDPA / HSUPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest measured SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.5 W/kg, SAR measurement is not required for HSDPA / HSUPA.

a) HSDPA

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

Sub-test	β_c	Bd	β_d (SF)	β_c/β_d	β_{hs}	CM(dB)	MPR (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0
2	12/15(3)	15/15(3)	64	12/15(3)	24/15	1.0	0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8$ Ahs = $\beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$

Note2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude(EVM) with HS-DPCCH test in clause 5.13.1.A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 8$ (Ahs=30/15) with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 7$ (Ahs=24/15) with $\beta_{hs} = 24/15 * \beta_c$.

Note3: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.



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

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

Table 4 : settings of required H-Set 1 QPSK acc. to 3GPP 34.121

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

Table 5 : HSDPA UE category

b) HSUPA

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



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Sub-test ^o	$\beta_{c\downarrow}$	$\beta_{d\downarrow}$	β_d (SF)) ^o	β_c/β_d	$\beta_{hs}(1)$) ^o	$\beta_{acc\downarrow}$	$\beta_{ed\downarrow}$	$\beta_{c\downarrow}$ (SF)) ^o	$\beta_{ed\downarrow}$ (code)) ^o	CM(2)) ^o	MP R _c (dB)) ^o	AG ⁽⁴⁾) ^o	E- TFC I _c) ^o
1 ^o	11/15 ⁽³⁾	15/15 ⁽³⁾	64 ^o	11/15 ⁽³⁾	22/15 ^o	209/225 ^o	1039/225 ^o	4 ^o	1 ^o	1.0 ^o	0.0 ^o	20 ^o	75 ^o
2 ^o	6/15 ^o	15/15 ^o	64 ^o	6/15 ^o	12/15 ^o	12/15 ^o	94/75 ^o	4 ^o	1 ^o	3.0 ^o	2.0 ^o	12 ^o	67 ^o
3 ^o	15/15 ^o	9/15 ^o	64 ^o	15/9 ^o	30/15 ^o	30/15 ^o	$\beta_{ed1}:47/15o$ $\beta_{ed2}:47/15o$	4 ^o	2 ^o	2.0 ^o	1.0 ^o	15 ^o	92 ^o
4 ^o	2/15 ^o	15/15 ^o	64 ^o	2/15 ^o	4/15 ^o	2/15 ^o	56/75 ^o	4 ^o	1 ^o	3.0 ^o	2.0 ^o	17 ^o	71 ^o
5 ^o	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64 ^o	15/15 ⁽⁴⁾	30/15 ^o	24/15 ^o	134/15 ^o	4 ^o	1 ^o	1.0 ^o	0.0 ^o	21 ^o	81 ^o

Note 1: ΔACK , $\Delta NACK$ and $\Delta CQI = 8$ $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_{c\downarrow}$
 Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference^o
 Note 3 : For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$ ^o
 Note 4 : For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$ ^o
 Note 5 : Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g^o
 Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.^o

Table 6 : Subtests for UMTS Release 6 HSUPA

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

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

Table 7 : HSUPA UE category



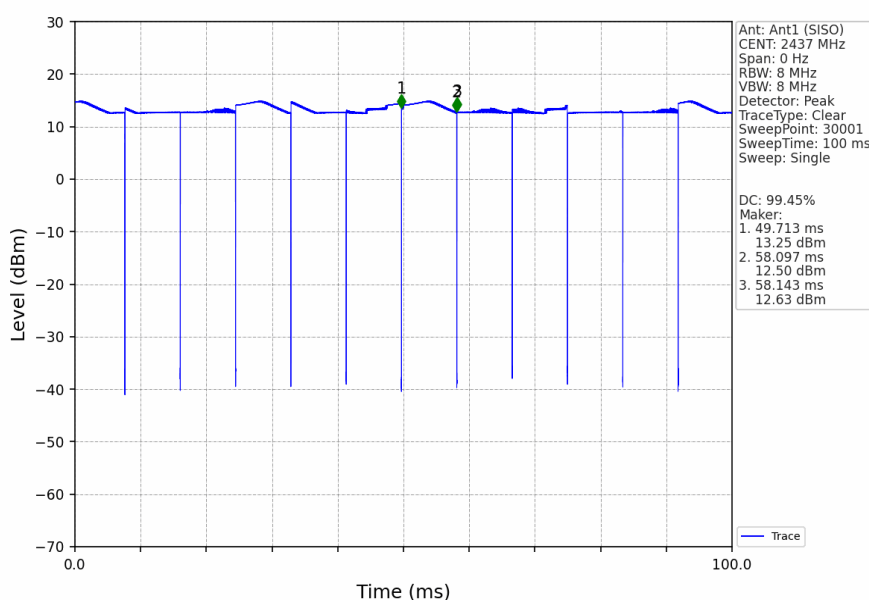
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7.2.3 WIFI Test Configuration

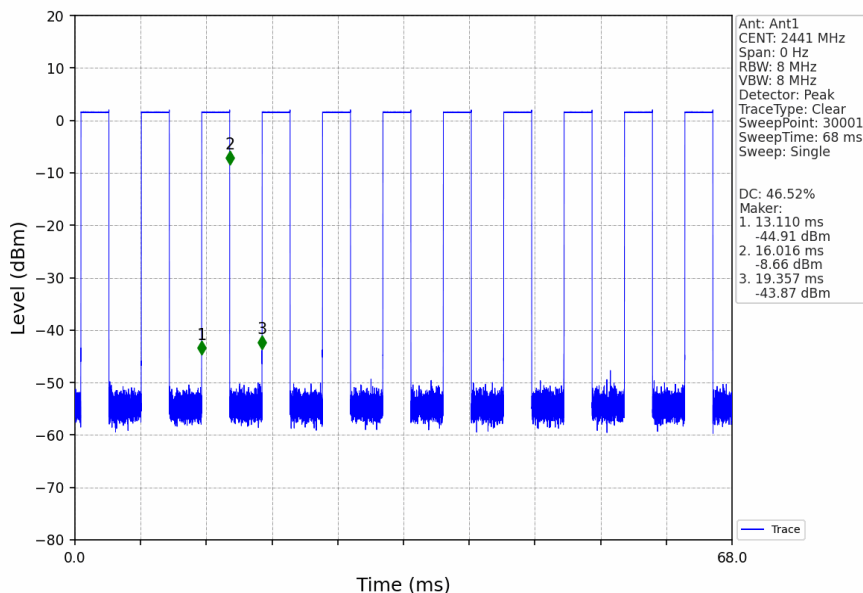
A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

7.2.3.1 Duty cycle

1) Wi-Fi 2.4GHz 802.11b:Duty cycle=99.45%



2) DH5 Duty Cycle=46.52%



7.2.3.2 Initial Test Position SAR Test Reduction Procedure

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

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

7.2.3.3 Subsequent Test Configuration Procedures

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

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

7.2.3.4 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.

7.2.4 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The 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 uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

Frame structure type 2:

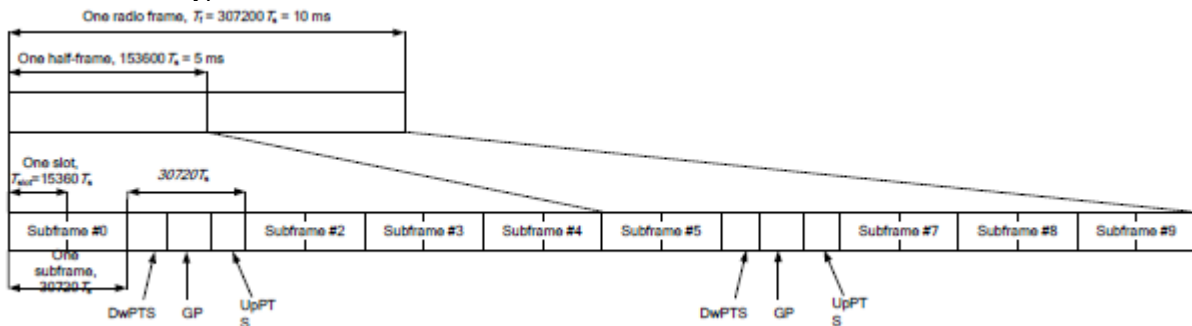


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

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

Table 4.2-2: Uplink-downlink configurations.



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

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

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

A) Spectrum Plots for RB Configurations

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

B) MPR

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

Modulation	Channel bandwidth/Transmission bandwidth						MPR (dB)
	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
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						5



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C) A-MPR

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

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

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

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

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

4) Higher order modulations

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

E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ 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

The detailed conducted power can be referred to Appendix E.

Note:

- 1) . For SAR the time based average power is relevant. The difference in between depends on the duty cycle of the TDMA signal:

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

- 2) . The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:

Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8.

- 3) . When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used.
- 4) . According to FCC guidance, the output power with uplink CA active was measured for the high / middle / low channel configuration with the highest reported SAR for each exposure condition, the power was measured with wideband signal integration over both component carriers.
- 5) . In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs.
- 6) . Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05.
- 7) . Conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A. Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded.

The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The detailed conducted power measurement results of downlink LTE CA are provided in the SAR report per 3GPP TS 36.521-1 V14.4.0. According to KDB 941225 D05A, the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.

The conducted power measurement results of downlink LTE CA Conducted Power are as Appendix E conducted RF output power, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.

- 8) . For conducted power of WIFI must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band. For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured. Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.



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- 1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.
- 2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.



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8.2 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
- 3) For LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing; therefore, the requirement for H, M, and L channels may not fully apply.

WiFi 2.4G:

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



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8.2.1 SAR Result of GSM850

Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Extremity Test data (Separate 0mm)											
Front side	GPRS 2TS	128/824.2	1:4.15	0.123	0.074	-0.15	30.82	31.50	1.169	0.087	22.1
Back side	GPRS 2TS	128/824.2	1:4.15	1.620	0.935	0.06	30.82	31.50	1.169	1.093	22.1
Left side	GPRS 2TS	128/824.2	1:4.15	0.256	0.145	0.16	30.82	31.50	1.169	0.170	22.1
Right side	GPRS 2TS	128/824.2	1:4.15	0.225	0.139	0.11	30.82	31.50	1.169	0.163	22.1
Top side	GPRS 2TS	128/824.2	1:4.15	1.360	0.660	-0.19	30.82	31.50	1.169	0.772	22.1
Bottom side	GPRS 2TS	128/824.2	1:4.15	0.031	0.011	0.00	30.82	31.50	1.169	0.013	22.1
Hand held Back side	GPRS 2TS	128/824.2	1:4.15	3.060	1.770	-0.08	30.82	31.50	1.169	2.070	22.1
Hand held Back side	GPRS 2TS	190/836.6	1:4.15	3.310	1.850	0.09	30.70	31.50	1.202	2.224	22.1
Hand held Back side	GPRS 2TS	251/848.8	1:4.15	3.420	1.800	-0.04	30.43	31.50	1.279	2.303	22.1



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8.2.2 SAR Result of GSM1900

Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Extremity Test data (Separate 0mm)											
Front side	GPRS 2TS	512/1850.2	1:4.15	0.119	0.069	0.09	27.80	28.50	1.175	0.081	22.1
Back side	GPRS 2TS	512/1850.2	1:4.15	1.990	1.130	-0.13	27.80	28.50	1.175	1.328	22.1
Left side	GPRS 2TS	512/1850.2	1:4.15	0.159	0.092	-0.09	27.80	28.50	1.175	0.108	22.1
Right side	GPRS 2TS	512/1850.2	1:4.15	0.417	0.252	-0.16	27.80	28.50	1.175	0.296	22.1
Top side	GPRS 2TS	512/1850.2	1:4.15	0.544	0.299	0.08	27.80	28.50	1.175	0.351	22.1
Bottom side	GPRS 2TS	512/1850.2	1:4.15	0.025	0.010	0.05	27.80	28.50	1.175	0.012	22.1
Hand held Back side	GPRS 2TS	512/1850.2	1:4.15	1.500	0.789	0.09	27.80	28.50	1.175	0.927	22.1



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8.2.3 SAR Result of WCDMA Band II

Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Extremity Test data (Separate 0mm)											
Front side	RMC	9262/1852.4	1:1	0.286	0.163	-0.11	23.58	24.00	1.102	0.180	22.3
Back side	RMC	9262/1852.4	1:1	3.530	1.850	0.18	23.58	24.00	1.102	2.038	22.3
Left side	RMC	9262/1852.4	1:1	0.268	0.155	-0.10	23.58	24.00	1.102	0.171	22.3
Right side	RMC	9262/1852.4	1:1	0.524	0.322	-0.05	23.58	24.00	1.102	0.355	22.3
Top side	RMC	9262/1852.4	1:1	1.050	0.590	0.09	23.58	24.00	1.102	0.650	22.3
Bottom side	RMC	9262/1852.4	1:1	0.047	0.026	-0.11	23.58	24.00	1.102	0.029	22.3
Hand held Back side	RMC	9262/1852.4	1:1	2.800	1.450	-0.05	23.58	24.00	1.102	1.597	22.3
Back side	RMC	9400/1880	1:1	2.960	1.530	-0.15	22.92	24.00	1.282	1.962	22.3
Back side	RMC	9538/1907.6	1:1	3.810	2.050	-0.09	23.03	24.00	1.250	2.563	22.3
Back side-repeated	RMC	9538/1907.6	1:1	3.750	2.020	-0.07	23.03	24.00	1.250	2.526	22.3

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Back side 0mm	9538/1907.6	2.050	2.020	1.015	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 performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
 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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8.2.4 SAR Result of WCDMA Band IV

Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Extremity Test data (Separate 0mm)											
Front side	RMC	1412/1732.4	1:1	0.351	0.204	-0.09	23.33	24.00	1.167	0.238	22.3
Back side	RMC	1412/1732.4	1:1	1.890	1.060	-0.17	23.33	24.00	1.167	1.237	22.3
Left side	RMC	1412/1732.4	1:1	0.417	0.244	-0.05	23.33	24.00	1.167	0.285	22.3
Right side	RMC	1412/1732.4	1:1	0.805	0.398	0.17	23.33	24.00	1.167	0.464	22.3
Top side	RMC	1412/1732.4	1:1	1.270	0.671	-0.07	23.33	24.00	1.167	0.783	22.3
Bottom side	RMC	1412/1732.4	1:1	0.018	0.006	-0.04	23.33	24.00	1.167	0.007	22.3
Hand held Back side	RMC	1412/1732.4	1:1	1.470	0.799	0.17	23.33	24.00	1.167	0.932	22.3



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8.2.5 SAR Result of WCDMA Band V

Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Extremity Test data (Separate 0mm)											
Front side	RMC	4182/836.4	1:1	0.176	0.113	-0.03	22.79	23.50	1.178	0.133	22.3
Back side	RMC	4182/836.4	1:1	1.130	0.683	0.14	22.79	23.50	1.178	0.804	22.3
Left side	RMC	4182/836.4	1:1	0.309	0.182	-0.16	22.79	23.50	1.178	0.214	22.3
Right side	RMC	4182/836.4	1:1	0.300	0.186	-0.15	22.79	23.50	1.178	0.219	22.3
Top side	RMC	4182/836.4	1:1	0.936	0.528	0.10	22.79	23.50	1.178	0.622	22.3
Bottom side	RMC	4182/836.4	1:1	0.024	0.010	0.02	22.79	23.50	1.178	0.012	22.3
Hand held Back side	RMC	4182/836.4	1:1	1.630	0.976	-0.07	22.79	23.50	1.178	1.149	22.3



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8.2.6 SAR Result of LTE Band 2

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.(°C)
Extremity Test data (Separate 0mm 1RB)												
Front side	20	QPSK 1_0	18700/1860	1:1	0.314	0.180	0.05	23.49	24.00	1.125	0.202	22.3
Back side	20	QPSK 1_0	18700/1860	1:1	3.860	1.980	-0.03	23.49	24.00	1.125	2.227	22.3
Left side	20	QPSK 1_0	18700/1860	1:1	0.333	0.191	-0.14	23.49	24.00	1.125	0.215	22.3
Right side	20	QPSK 1_0	18700/1860	1:1	0.625	0.379	-0.02	23.49	24.00	1.125	0.426	22.3
Top side	20	QPSK 1_0	18700/1860	1:1	2.130	1.160	-0.08	23.49	24.00	1.125	1.305	22.3
Bottom side	20	QPSK 1_0	18700/1860	1:1	0.038	0.011	0.18	23.49	24.00	1.125	0.012	22.3
Hand held Back side	20	QPSK 1_0	18700/1860	1:1	2.920	1.530	0.05	23.49	24.00	1.125	1.721	22.3
Back side	20	QPSK 1_0	18900/1880	1:1	3.150	1.720	-0.15	23.25	24.00	1.189	2.044	22.3
Back side	20	QPSK 1_0	19100/1900	1:1	4.260	2.330	-0.01	23.47	24.00	1.130	2.632	22.3
Back side-repeated	20	QPSK 1_0	19100/1900	1:1	4.160	2.210	0.08	23.47	24.00	1.130	2.497	22.3
Extremity Test data (Separate 0mm 50%RB)												
Front side	20	QPSK 50_25	18700/1860	1:1	0.243	0.140	0.06	22.66	23.00	1.081	0.151	22.3
Back side	20	QPSK 50_25	18700/1860	1:1	3.210	1.660	0.10	22.66	23.00	1.081	1.795	22.3
Left side	20	QPSK 50_25	18700/1860	1:1	0.249	0.144	-0.12	22.66	23.00	1.081	0.156	22.3
Right side	20	QPSK 50_25	18700/1860	1:1	0.494	0.299	0.11	22.66	23.00	1.081	0.323	22.3
Top side	20	QPSK 50_25	18700/1860	1:1	1.730	0.927	0.00	22.66	23.00	1.081	1.002	22.3
Bottom side	20	QPSK 50_25	18700/1860	1:1	0.019	0.005	-0.11	22.66	23.00	1.081	0.005	22.3
Hand held Back side	20	QPSK 50_25	18700/1860	1:1	2.720	1.370	0.03	22.66	23.00	1.081	1.482	22.3
Extremity Test data (Separate 0mm 100%RB)												
Back side	20	QPSK 100_0	18700/1860	1:1	3.130	1.690	-0.04	22.58	23.00	1.102	1.862	22.3

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Back side 0mm	19100/1900	2.330	2.210	1.054	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 performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

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

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.

8.2.7 SAR Result of LTE Band 4

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.(°C)
Extremity Test data (Separate 0mm 1RB)												
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.333	0.189	-0.14	23.76	24.50	1.186	0.224	22.3
Back side	20	QPSK 1_0	20175/1732.5	1:1	2.210	1.220	-0.02	23.76	24.50	1.186	1.447	22.3
Left side	20	QPSK 1_0	20175/1732.5	1:1	0.424	0.243	-0.14	23.76	24.50	1.186	0.288	22.3
Right side	20	QPSK 1_0	20175/1732.5	1:1	0.804	0.395	0.07	23.76	24.50	1.186	0.468	22.3
Top side	20	QPSK 1_0	20175/1732.5	1:1	1.370	0.711	-0.07	23.76	24.50	1.186	0.843	22.3
Bottom side	20	QPSK 1_0	20175/1732.5	1:1	0.038	0.013	-0.09	23.76	24.50	1.186	0.015	22.3
Hand held Back side	20	QPSK 1_0	20175/1732.5	1:1	1.690	0.871	-0.14	23.76	24.50	1.186	1.033	22.3
Extremity Test data (Separate 0mm 50%RB)												
Front side	20	QPSK 50_0	20175/1732.5	1:1	0.279	0.155	0.11	22.72	23.50	1.197	0.185	22.3
Back side	20	QPSK 50_0	20175/1732.5	1:1	1.670	0.901	-0.14	22.72	23.50	1.197	1.078	22.3
Left side	20	QPSK 50_0	20175/1732.5	1:1	0.352	0.204	-0.08	22.72	23.50	1.197	0.244	22.3
Right side	20	QPSK 50_0	20175/1732.5	1:1	0.727	0.348	-0.10	22.72	23.50	1.197	0.416	22.3
Top side	20	QPSK 50_0	20175/1732.5	1:1	1.110	0.592	0.01	22.72	23.50	1.197	0.708	22.3
Bottom side	20	QPSK 50_0	20175/1732.5	1:1	0.037	0.011	0.02	22.72	23.50	1.197	0.013	22.3
Hand held Back side	20	QPSK 50_0	20175/1732.5	1:1	1.330	0.687	-0.05	22.72	23.50	1.197	0.822	22.3

8.2.8 SAR Result of LTE Band 5

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.(°C)
Extremity Test data (Separate 0mm 1RB)												
Front side	10	QPSK 1_49	20525/836.5	1:1	0.203	0.132	-0.08	23.71	24.00	1.069	0.141	22.3
Back side	10	QPSK 1_49	20525/836.5	1:1	1.300	0.780	-0.11	23.71	24.00	1.069	0.834	22.3
Left side	10	QPSK 1_49	20525/836.5	1:1	0.362	0.210	-0.10	23.71	24.00	1.069	0.225	22.3
Right side	10	QPSK 1_49	20525/836.5	1:1	0.339	0.211	0.13	23.71	24.00	1.069	0.226	22.3
Top side	10	QPSK 1_49	20525/836.5	1:1	0.948	0.531	-0.02	23.71	24.00	1.069	0.568	22.3
Bottom side	10	QPSK 1_49	20525/836.5	1:1	0.035	0.013	-0.17	23.71	24.00	1.069	0.014	22.3
Hand held Back side	10	QPSK 1_49	20525/836.5	1:1	1.810	1.090	0.06	23.71	24.00	1.069	1.165	22.3
Extremity Test data (Separate 0mm 50%RB)												
Front side	10	QPSK 25_25	20525/836.5	1:1	0.151	0.096	0.09	22.55	23.00	1.109	0.106	22.3
Back side	10	QPSK 25_25	20525/836.5	1:1	1.030	0.612	-0.15	22.55	23.00	1.109	0.679	22.3
Left side	10	QPSK 25_25	20525/836.5	1:1	0.258	0.150	0.17	22.55	23.00	1.109	0.166	22.3
Right side	10	QPSK 25_25	20525/836.5	1:1	0.273	0.170	0.15	22.55	23.00	1.109	0.189	22.3
Top side	10	QPSK 25_25	20525/836.5	1:1	0.787	0.423	-0.06	22.55	23.00	1.109	0.469	22.3
Bottom side	10	QPSK 25_25	20525/836.5	1:1	0.037	0.015	-0.03	22.55	23.00	1.109	0.017	22.3
Hand held Back side	10	QPSK 25_25	20525/836.5	1:1	1.220	0.723	-0.06	22.55	23.00	1.109	0.802	22.3

8.2.9 SAR Result of LTE Band 7

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.(°C)
Extremity Test data (Separate 0mm 1RB)												
Front side	20	QPSK 1_0	21350/2560	1:1	0.113	0.072	0.06	21.98	22.50	1.127	0.081	22.3
Back side	20	QPSK 1_0	21350/2560	1:1	6.440	2.860	-0.02	21.98	22.50	1.127	3.224	22.3
Left side	20	QPSK 1_0	21350/2560	1:1	0.164	0.093	0.13	21.98	22.50	1.127	0.105	22.3
Right side	20	QPSK 1_0	21350/2560	1:1	0.244	0.148	0.06	21.98	22.50	1.127	0.167	22.3
Top side	20	QPSK 1_0	21350/2560	1:1	1.300	0.677	0.12	21.98	22.50	1.127	0.763	22.3
Bottom side	20	QPSK 1_0	21350/2560	1:1	0.021	0.009	0.03	21.98	22.50	1.127	0.010	22.3
Hand held Back side	20	QPSK 1_0	21350/2560	1:1	5.130	2.460	-0.09	21.98	22.50	1.127	2.773	22.3
Back side	20	QPSK 1_0	20850/2510	1:1	6.560	2.920	0.02	21.75	22.50	1.189	3.470	22.3
Back side-Repeated	20	QPSK 1_0	20850/2510	1:1	6.390	2.830	0.05	21.75	22.50	1.189	3.363	22.3
Back side	20	QPSK 1_0	21100/2535	1:1	6.140	2.690	-0.12	21.81	22.50	1.172	3.153	22.3
Hand held Back side	20	QPSK 1_0	20850/2510	1:1	5.230	2.510	-0.05	21.75	22.50	1.189	2.983	22.3
Hand held Back side	20	QPSK 1_0	21100/2535	1:1	4.890	2.310	0.17	21.81	22.50	1.172	2.708	22.3
Extremity Test data (Separate 0mm 50%RB)												
Front side	20	QPSK 50_0	21100/2535	1:1	0.086	0.055	0.07	20.90	21.50	1.148	0.063	22.3
Back side	20	QPSK 50_0	21100/2535	1:1	5.100	2.260	0.13	20.90	21.50	1.148	2.595	22.3
Left side	20	QPSK 50_0	21100/2535	1:1	0.131	0.074	-0.17	20.90	21.50	1.148	0.085	22.3
Right side	20	QPSK 50_0	21100/2535	1:1	0.201	0.118	-0.06	20.90	21.50	1.148	0.135	22.3
Top side	20	QPSK 50_0	21100/2535	1:1	0.729	0.385	-0.16	20.90	21.50	1.148	0.442	22.3
Bottom side	20	QPSK 50_0	21100/2535	1:1	0.019	0.006	0.02	20.90	21.50	1.148	0.007	22.3
Hand held Back side	20	QPSK 50_0	21100/2535	1:1	4.410	2.000	-0.12	20.90	21.50	1.148	2.296	22.3
Back side	20	QPSK 50_0	20850/2510	1:1	4.980	2.220	-0.14	20.63	21.50	1.222	2.712	22.3
Back side	20	QPSK 50_0	21350/2560	1:1	4.770	2.100	0.01	20.86	21.50	1.159	2.433	22.3
Hand held Back side	20	QPSK 50_0	20850/2510	1:1	4.310	1.960	-0.04	20.63	21.50	1.222	2.395	22.3
Hand held Back side	20	QPSK 50_0	21350/2560	1:1	4.120	1.860	-0.17	20.86	21.50	1.159	2.155	22.3
Extremity Test data (Separate 0mm 100%RB)												
Back side	20	QPSK 100_0	21100/2535	1:1	5.270	2.330	0.14	20.72	21.50	1.197	2.788	22.3
Hand held Back side	20	QPSK 100_0	21100/2535	1:1	4.560	2.060	0.01	20.72	21.50	1.197	2.465	22.3

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Back side 0mm	20850/2510	2.920	2.830	1.032	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 performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
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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8.2.10 SAR Result of LTE Band 38

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.(°C)
Extremity Test data (Separate 0mm 1RB)												
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.099	0.059	0.12	23.82	25.00	1.312	0.077	22.3
Back side	20	QPSK 1_0	38000/2595	1:1.58	5.630	2.380	-0.02	23.82	25.00	1.312	3.123	22.3
Back side-repeated	20	QPSK 1_0	38000/2595	1:1.58	5.540	2.340	0.05	23.82	25.00	1.312	3.071	22.3
Left side	20	QPSK 1_0	38000/2595	1:1.58	0.163	0.086	0.10	23.82	25.00	1.312	0.113	22.3
Right side	20	QPSK 1_0	38000/2595	1:1.58	0.216	0.120	-0.04	23.82	25.00	1.312	0.157	22.3
Top side	20	QPSK 1_0	38000/2595	1:1.58	1.300	0.625	0.14	23.82	25.00	1.312	0.820	22.3
Bottom side	20	QPSK 1_0	38000/2595	1:1.58	0.038	0.012	0.02	23.82	25.00	1.312	0.016	22.3
Hand held Back side	20	QPSK 1_0	38000/2595	1:1.58	4.730	2.020	0.10	23.82	25.00	1.312	2.651	22.3
Extremity Test data (Separate 0mm 50%RB)												
Front side	20	QPSK 50_0	38000/2595	1:1.58	0.081	0.048	0.12	22.88	24.00	1.294	0.062	22.3
Back side	20	QPSK 50_0	38000/2595	1:1.58	4.460	1.840	0.17	22.88	24.00	1.294	2.381	22.3
Left side	20	QPSK 50_0	38000/2595	1:1.58	0.128	0.068	0.05	22.88	24.00	1.294	0.088	22.3
Right side	20	QPSK 50_0	38000/2595	1:1.58	0.189	0.103	0.09	22.88	24.00	1.294	0.133	22.3
Top side	20	QPSK 50_0	38000/2595	1:1.58	0.921	0.441	-0.11	22.88	24.00	1.294	0.571	22.3
Bottom side	20	QPSK 50_0	38000/2595	1:1.58	0.032	0.010	-0.14	22.88	24.00	1.294	0.013	22.3
Hand held Back side	20	QPSK 50_0	38000/2595	1:1.58	3.770	1.610	0.00	22.88	24.00	1.294	2.084	22.3
Extremity Test data (Separate 0mm 100%RB)												
Back side	20	QPSK 100_0	38000/2595	1:1.58	4.250	1.750	0.17	22.75	24.00	1.334	2.334	22.3
Hand held Back side	20	QPSK 100_0	38000/2595	1:1.58	3.710	1.550	0.02	22.75	24.00	1.334	2.067	22.3

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Back side 0mm	38000/2595	2.380	2.340	1.017	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 performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

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

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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8.2.11 SAR Result of WIFI 2.4G

Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	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.(°C)
Extremity Test data (Separate 0mm)												
Front side	802.11b	6/2437	99.45%	1.006	0.195	0.093	-0.04	13.45	14.00	1.135	0.106	22.1
Back side	802.11b	6/2437	99.45%	1.006	0.203	0.105	0.15	13.45	14.00	1.135	0.120	22.1
Left side	802.11b	6/2437	99.45%	1.006	0.137	0.071	0.02	13.45	14.00	1.135	0.081	22.1
Right side	802.11b	6/2437	99.45%	1.006	1.410	0.575	0.11	13.45	14.00	1.135	0.656	22.1
Top side	802.11b	6/2437	99.45%	1.006	0.170	0.086	0.13	13.45	14.00	1.135	0.098	22.1
Bottom side	802.11b	6/2437	99.45%	1.006	0.022	0.010	-0.14	13.45	14.00	1.135	0.011	22.1
Hand held Back side	802.11b	6/2437	99.45%	1.006	0.240	0.115	-0.03	13.45	14.00	1.135	0.131	22.1



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8.2.12 SAR Result of BT

Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	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.(°C)
Extremity Test data (Separate 0mm)												
Front side	DH5	0/2402	46.52%	2.150	0.017	0.008	-0.01	1.53	2.00	1.114	0.018	22.1
Back side	DH5	0/2402	46.52%	2.150	0.018	0.009	0.05	1.53	2.00	1.114	0.021	22.1
Left side	DH5	0/2402	46.52%	2.150	0.012	0.006	0.02	1.53	2.00	1.114	0.014	22.1
Right side	DH5	0/2402	46.52%	2.150	0.118	0.049	0.02	1.53	2.00	1.114	0.116	22.1
Top side	DH5	0/2402	46.52%	2.150	0.015	0.007	0.10	1.53	2.00	1.114	0.017	22.1
Bottom side	DH5	0/2402	46.52%	2.150	0.002	0.001	-0.07	1.53	2.00	1.114	0.002	22.1
Hand held Back side	DH5	0/2402	46.52%	2.150	0.021	0.010	0.01	1.53	2.00	1.114	0.023	22.1



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8.3 Multiple Transmitter Evaluation

8.3.1 Simultaneous SAR test evaluation

No.	Simultaneous Tx Combination	Extremity
1	WWAN + WLAN 2.4GHz	Yes
2	WWAN + BT	Yes

Note:

- 1) The device does not support DTM function.



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8.3.2 Simultaneous Transmission SAR Summation Scenario

0mm

Test position		SARmax (W/kg)			Summed SAR	
		WWAN	WiFi 2.4G	BT		
		1	2	3	1+2	1+3
GSM 850	Front side	0.087	0.106	0.018	0.193	0.105
	Back side	1.093	0.120	0.021	1.213	1.114
	Left side	0.170	0.081	0.014	0.251	0.184
	Right side	0.163	0.656	0.116	0.819	0.279
	Top side	0.772	0.098	0.017	0.870	0.789
	Bottom side	0.013	0.011	0.002	0.024	0.015
	Hand held Back side	2.303	0.131	0.023	2.434	2.326
GSM 1900	Front side	0.081	0.106	0.018	0.187	0.099
	Back side	1.328	0.120	0.021	1.448	1.349
	Left side	0.108	0.081	0.014	0.189	0.122
	Right side	0.296	0.656	0.116	0.952	0.412
	Top side	0.351	0.098	0.017	0.449	0.368
	Bottom side	0.012	0.011	0.002	0.023	0.014
	Hand held Back side	0.927	0.131	0.023	1.058	0.950
WCDMA Band II	Front side	0.180	0.106	0.018	0.286	0.198
	Back side	2.563	0.120	0.021	2.683	2.584
	Left side	0.171	0.081	0.014	0.252	0.185
	Right side	0.355	0.656	0.116	1.011	0.471
	Top side	0.650	0.098	0.017	0.748	0.667
	Bottom side	0.029	0.011	0.002	0.040	0.031
	Hand held Back side	1.597	0.131	0.023	1.728	1.620
WCDMA Band IV	Front side	0.238	0.106	0.018	0.344	0.256
	Back side	1.237	0.120	0.021	1.357	1.258
	Left side	0.285	0.081	0.014	0.366	0.299
	Right side	0.464	0.656	0.116	1.120	0.580
	Top side	0.783	0.098	0.017	0.881	0.800
	Bottom side	0.007	0.011	0.002	0.018	0.009
	Hand held Back side	0.932	0.131	0.023	1.063	0.955
WCDMA Band V	Front side	0.133	0.106	0.018	0.239	0.151
	Back side	0.804	0.120	0.021	0.924	0.825
	Left side	0.214	0.081	0.014	0.295	0.228
	Right side	0.219	0.656	0.116	0.875	0.335
	Top side	0.622	0.098	0.017	0.720	0.639
	Bottom side	0.012	0.011	0.002	0.023	0.014
	Hand held Back side	1.149	0.131	0.023	1.280	1.172
LTE Band 2	Front side	0.202	0.106	0.018	0.308	0.220
	Back side	2.632	0.120	0.021	2.752	2.653
	Left side	0.215	0.081	0.014	0.296	0.229
	Right side	0.426	0.656	0.116	1.082	0.542
	Top side	1.305	0.098	0.017	1.403	1.322
	Bottom side	0.012	0.011	0.002	0.023	0.014
	Hand held Back side	1.721	0.131	0.023	1.852	1.744
LTE Band 4	Front side	0.224	0.106	0.018	0.330	0.242
	Back side	1.447	0.120	0.021	1.567	1.468



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	Left side	0.288	0.081	0.014	0.369	0.302
	Right side	0.468	0.656	0.116	1.124	0.584
	Top side	0.843	0.098	0.017	0.941	0.860
	Bottom side	0.015	0.011	0.002	0.026	0.017
	Hand held Back side	1.033	0.131	0.023	1.164	1.056
LTE Band 5	Front side	0.141	0.106	0.018	0.247	0.159
	Back side	0.834	0.120	0.021	0.954	0.855
	Left side	0.225	0.081	0.014	0.306	0.239
	Right side	0.226	0.656	0.116	0.882	0.342
	Top side	0.568	0.098	0.017	0.666	0.585
	Bottom side	0.017	0.011	0.002	0.028	0.019
	Hand held Back side	1.165	0.131	0.023	1.296	1.188
LTE Band 7	Front side	0.081	0.106	0.018	0.187	0.099
	Back side	3.470	0.120	0.021	3.590	3.491
	Left side	0.105	0.081	0.014	0.186	0.119
	Right side	0.167	0.656	0.116	0.823	0.283
	Top side	0.763	0.098	0.017	0.861	0.780
	Bottom side	0.010	0.011	0.002	0.021	0.012
	Hand held Back side	2.983	0.131	0.023	3.114	3.006
LTE Band 38	Front side	0.077	0.106	0.018	0.183	0.095
	Back side	3.123	0.120	0.021	3.243	3.144
	Left side	0.113	0.081	0.014	0.194	0.127
	Right side	0.157	0.656	0.116	0.813	0.273
	Top side	0.820	0.098	0.017	0.918	0.837
	Bottom side	0.016	0.011	0.002	0.027	0.018
	Hand held Back side	2.651	0.131	0.023	2.782	2.674



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9 Equipment list

Test Platform		SPEAG DASY Professional				
Description		SAR Test System				
Software Reference		DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)				
Hardware Reference						
Equipment		Manufacturer	Model	Inventory No.	Calibration Date	Due date of calibration
<input checked="" type="checkbox"/>	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-031	NCR	NCR
<input checked="" type="checkbox"/>	DAE	SPEAG	DAE4	SZ-WSR-M-028	2024/04/16	2025/04/15
<input checked="" type="checkbox"/>	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-027	2024/07/17	2025/07/16
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D835V2	SZ-WSR-M-033	2022/11/02	2025/11/01
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D1750V2	SZ-WSR-R-012	2025/05/08	2028/05/07
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D1950V3	SZ-WSR-M-037	2022/10/31	2025/10/30
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2450V2	SZ-WSR-M-039	2022/11/02	2025/11/01
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2600V2	SZ-WSR-R-014	2024/06/17	2027/06/16
<input checked="" type="checkbox"/>	Dielectric parameter probes	SPEAG	DAKS-3.5	SZ-WSR-M-053	2024/06/26	2025/06/25
<input checked="" type="checkbox"/>	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	SZ-WSR-M-054	2024/06/26	2025/06/25
<input checked="" type="checkbox"/>	RF Bi-Directional Coupler	Agilent	86205-60001	SZ-WSR-A-004	NCR	NCR
<input checked="" type="checkbox"/>	Signal Generator	Agilent	N5171B	SZ-WSR-M-006	2025/01/07	2026/01/06
<input checked="" type="checkbox"/>	Preamplifier	Mini-Circuits	ZHL-42W	SZ-WSR-A-001	NCR	NCR
<input checked="" type="checkbox"/>	Preamplifier	Compliance Directions Systems Inc.	AMP28-3W	SZ-WSR-A-002	NCR	NCR
<input checked="" type="checkbox"/>	Power Meter	Agilent	E4416A	SZ-WSR-M-007	2025/01/07	2026/01/06
<input checked="" type="checkbox"/>	Power Sensor	Agilent	8481H	SZ-WSR-M-008	2025/01/07	2026/01/06
<input checked="" type="checkbox"/>	Power Sensor	R&S	NRP-Z92	SZ-WSR-M-009	2025/01/08	2026/01/07
<input checked="" type="checkbox"/>	Attenuator	SHX	TS2-3dB	SZ-WSR-A-012	NCR	NCR
<input checked="" type="checkbox"/>	Speed reading thermometer	Zhengzhou Boyang Instrument	TP3001	SZ-WSR-M-014	2025/05/19	2026/05/18
<input checked="" type="checkbox"/>	Temperature	MingGao	T809	SZ-WSR-M-015	2025/05/19	2026/05/18
<input checked="" type="checkbox"/>	Temperature	MingGao	T809	SZ-WSR-M-016	2025/05/19	2026/05/18
<input checked="" type="checkbox"/>	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-013	2025/05/16	2026/05/15
<input checked="" type="checkbox"/>	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-011	2025/05/19	2026/05/18

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

11 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

Appendix E: Conducted RF Output Power

--- End of report ---

