

Report No.: SEWM2302000050RG01

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FCC SAR TEST REPORT

Application No.: SEWM2302000050RG

Applicant:Great Talent Technology LimitedManufacturer:Great Talent Technology Limited

Product Name: smart phone
Model No.(EUT): SV55216
Trade Mark: Schok

 FCC ID:
 2ALZM-SV55216

 Standards:
 FCC 47CFR §2.1093

Date of Receipt: 2023-02-22

Date of Test: 2023-02-27 to 2023-03-09

Date of Issue: 2023-03-09
Test conclusion: PASS *

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

Authorized Signature:

Panta Sun Wireless Laboratory Manager



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REVISION HISTORY

Report Number	Revi sion	Description	Issue Date
SEWM2302000050RG01	01	Original	2023-03-09



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TEST SUMMARY

		Maxir	num Reported SAR(W/	(g)
Frequency Band	Head	Body-worn	Hotspot	Product Specific 10-g SAR
GSM850	0.20	0.28	0.38	NA
GSM1900	0.12	<0.10	0.20	NA
WCDMA Band II	0.34	0.35	0.53	NA
WCDMA Band IV	0.38	0.53	0.65	NA
WCDMA Band V	0.50	0.51	0.65	NA
LTE Band 2	0.27	0.31	0.60	NA
LTE Band 4	0.50	0.69	1.41	NA
LTE Band 5	0.47	0.53	0.61	NA
LTE Band 12	0.19	0.42	0.47	NA
LTE Band 41	0.44	0.40	0.72	NA
LTE Band 66	0.65	0.61	1.19	NA
LTE Band 71	<0.10	0.39	0.47	NA
WI-FI (2.4GHz)	0.46	<0.10	0.17	NA
ВТ	NA	NA	NA	NA
SAR Limited(W/kg)		1.6		4
	Maximum Simu	ultaneous Transmissio	n SAR (W/kg)	
Scenario	Head	Dody worn	Lietenet	Product Specific
Scenario	пеац	Body-worn	Hotspot	10-g SAR
Sum SAR	1.11	0.76	1.58	NA
SPLSR	NA	NA	NA	NA
SPLSR Limited		0.04		

Maximum Reported SAR is Select the worst presentation of the original report(report No: ZR/2021/4002803) and this report.

Reviewed by Mell Well Wei

Prepared by

Nick Hu

Nick Hu



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1 General Information

1.1 Details of Client

Applicant:	Great Talent Technology Limited
Address:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China 518110
Manufacturer:	Great Talent Technology Limited
Address:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China 518110

1.2 Test Location

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



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1.3 Test Facility

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

A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327



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1.4 General Description of EUT

1.4 General Descrip	tion of Eor					
Device Type :	portable device	portable device				
Exposure Category:	uncontrolled environme	uncontrolled environment / general population				
Product Name:	smart phone	smart phone				
Model No.(EUT):	SV55216					
FCC ID:	2ALZM-SV55216					
Trade Mark:	Schok					
Product Phase:	Identical Prototype					
IMEI:	356566229915301/350	216450200181				
Hardware Version:	Q5505_V1.0					
Software Version:	SV55216_01.02.02.230)111				
Antenna Type:	Inner Antenna					
Device Operating Configurat	ions :					
	GSM: GMSK, 8PSK; W	CDMA: QPSK;				
Modulation Mode:	LTE: QPSK,16QAM;					
		T: GFSK, π/4DQPSK,8DPSK				
Device Class:	В	1				
GPRS Multi-slots Class:	33	EGPRS Multi-slots Class:	33			
HSDPA UE Category:	14	HSUPA UE Category	6			
		4,tested with power level 5(GSM850)				
Power Class		1,tested with power level 0(GSM1900)				
1 OWC1 Old33		3, tested with power control "all 1"(WCDMA Band)				
	•	ntrol Max Power(LTE Band)				
	Band	Tx (MHz)	Rx (MHz)			
	GSM850	824~849	869~894			
	GSM1900	1850~1910	1930~1990			
	WCDMA Band II	1850~1910	1930~1990			
	WCDMA Band IV	1710~1755	2110~2155			
	WCDMA Band V	824~849	869~894			
	LTE Band 2	1850 ~1910	1930 ~1990			
Frequency Bands:	LTE Band 4	1710~1755	2110~2155			
	LTE Band 5	824~849	869-894			
	LTE Band 12	699~716	729~746			
	LTE Band 41	2496~2690	2496~2690			
	LTE Band 66	1710~1780	2110~2200			
	LTE Band 71	663~698	617~652			
	Bluetooth	2400~2483.5	2400~2483.5			
	Wi-Fi 2.4G	2400~2483.5	2400~2483.5			
	Model:	SB300				
Dettem / Informs = 11 = 12	Normal Voltage:	+3.85V				
Battery Information:	Rated capacity:	3000mAh				
	Manufacturer:	Phenix New Energy (Hui zhou) CO., Ltd.				
Remark:	·	, , , , , , , , , , , , , , , , , , , ,	•			

Remark:

According to the declaration letter from manufacturer, for the variant test at the worst-case SAR of original report ZR/2021/4002803 in this report.



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1.4.1 DUT Antenna Locations

Please see the Appendix D.

Note:

1) The test device is a smart phone. The overall diagonal dimension of this device is 161 mm. Per KDB 648474 D04, because the diagonal distance of this device is ≥160mm, so it is a phablet.

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

EUT Sides for SAR Testing							
Mode	Exposure Condition	Front	Back	Left	Right	Тор	Bottom
Main Ant	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	Yes	No	Yes
WIFI/BT Ant	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No

Table 1: EUT Sides for SAR Testing Note:

1) When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.



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1.5 Test Specification

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



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1.6 RF exposure limits

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.)



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

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

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



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2 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.		

Table 2: The Ambient Conditions



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3 SAR Measurements System Configuration

3.1 The SAR Measurement System

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

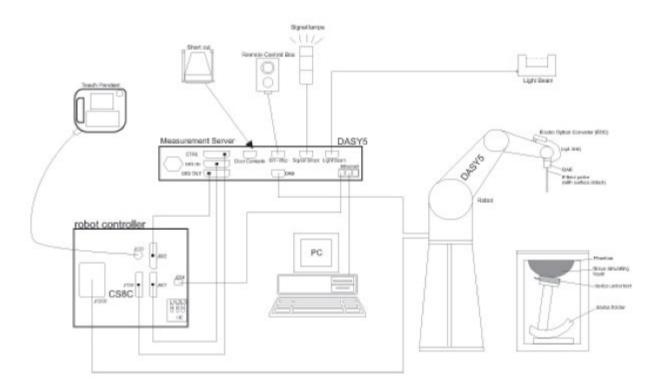
The DASY5 system for performing compliance tests consists of the following items:

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

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

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

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



F-1. SAR Measurement System Configuration



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

3.2 Isotropic E-field Probe EX3DV4

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



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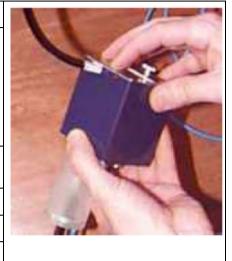


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3.3 Data Acquisition Electronics (DAE)

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



3.4 SAM Twin Phantom

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



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

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



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3.5 ELI Phantom

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



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

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



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3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

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



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3.7 Measurement procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

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

Step 2: Area scan

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

Step 3: Zoom scan

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

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

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



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			≤ 3 GHz	> 3 GHz	
Maximum distance from			5 ± 1 mm	½·δ·ln(2) ± 0.5 mm	
Maximum probe angle from probe axis to phantom surface normal at the measurement location			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 spatial resolution: Δx _{Area} , Δy _{Area}			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.		
Maximum zoom scan s	patial reso	lution: Δx _{Zoom} , Δy _{Zoom}	≤ 2 GHz: ≤ 8 mm 2 - 3 GHz: ≤ 5 mm*	$3 - 4 \text{ GHz} \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz} \le 4 \text{ mm}^*$	
	uniform grid: Δz _{Zoom} (n)		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm	
$\begin{array}{c} \text{Maximum zoom scan} \\ \text{spatial resolution,} \\ \text{normal to phantom} \\ \text{surface} \end{array} \text{graded} \\ \text{grid} \\ \begin{array}{c} \Delta z_{\text{Zoom}}(1) \text{: between} \\ 1^{\text{st}} \text{ two points closest} \\ \text{to phantom surface} \\ \\ \Delta z_{\text{Zoom}}(n \geq 1) \text{:} \\ \text{between subsequent} \\ \text{points} \end{array}$		1st two points closest	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm	
		$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$			
Minimum zoom scan volume	a scan 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. \pm 5 %



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3.7.2 Data Storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DAE4". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.7.3 Data Evaluation by SEMCAD

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

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

Conversion factor
 Diode compression point
 Device parameters: - Frequency

- Crest factor cf
Media parameters: - Conductivity ε

- Density p

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:

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

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:

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



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H-field probes:

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

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

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

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

ConvF = sensitivity enhancement in solution

aij = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

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

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

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

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

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

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

with SAR = local specific absorption rate in mW/g

Etot = total field strength in V/m

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

ε= equivalent tissue density in g/cm3

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

$$P_{pwe} = E_{tot}^2 2 / 3770$$
 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 KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is remounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20. The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

4.2 SAR measurement uncertainty

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



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5 Description of Test Position

5.1 Head Exposure Condition

5.1.1 SAM Phantom Shape

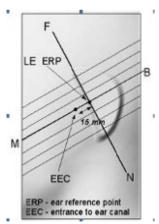


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

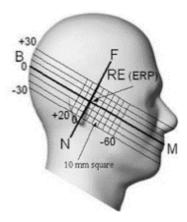
Note: The centre strip including the nose region has a different thickness tolerance.



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



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



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



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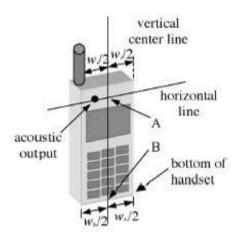
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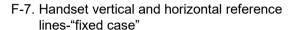


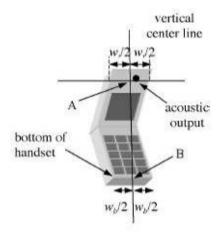
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5.1.2 EUT constructions







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

5.1.3 Definition of the "cheek" position

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



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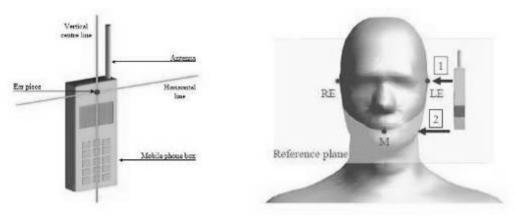
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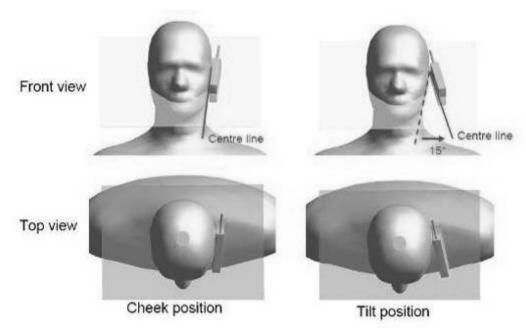
5.1.4 Definition of the "tilted" position

a) Position the device in the "cheek" position described above;

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



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



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



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5.2 Body Exposure Condition

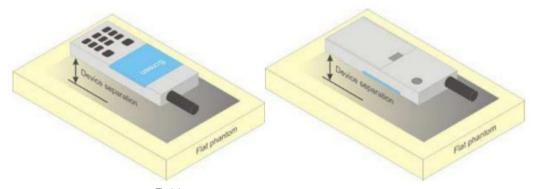
5.2.1 Body-worn accessory exposure conditions

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

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

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

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



F-11. Test positions for body-worn devices



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5.2.2 Wireless Router exposure conditions

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

5.3 Extremity exposure conditions

Per FCC KDB 648474D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the device is marketed as "Phablet". The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for Product Specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

Due to the SAR result, no frequency bands of WWAN need to test with 0mm for the Product Specific 10-g SAR.



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6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

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

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

Tween: Polyoxyethylene (20) sorbitan monolaurate

HSL5GHz is composed of the following ingredients:

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

Table 3: Recipe of Tissue Simulate Liquid



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6.1.2 Measurement for Tissue Simulate Liquid

The dielectric properties for this Tissue Simulate Liquids were measured by using the Agilent Model 85070E Dielectric Probe in conjunction with Agilent E5071C Network Analyzer (300 KHz-8500 MHz). The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was $22\pm2^{\circ}$ C.

Measured		Target Tissue (±5%)		Measured Tissue		Liquid Temp.		
Tissue Type	Frequency (MHz)	Er	σ(S/m)	εr	σ(S/m)	(°C)	Test Date	
750 Head	750	41.9 (39.81~44)	0.89 (0.85~0.94)	42.960	0.866	22.3	2023-02-27	
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	42.662	0.906	22.1	2023-02-28	
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	39.154	1.308	22.2	2023-03-06	
1900 Head	1900	40.0 (38.00~42.00)	1.40 (1.33~1.47)	39.772	1.341	22.3	2023-03-02	
2450 Head	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	38.917	1.837	22.1	2023-03-05	
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	37.900	1.986	21.9	2023-03-04	

Table 4: Measurement result of Tissue electric parameters



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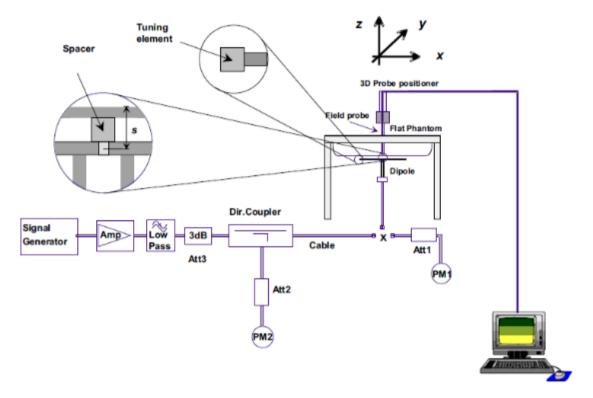


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6.2 SAR System Check

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



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



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6.2.1 Justification for Extended SAR Dipole Calibrations

- 1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.
- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 10% of calibrated measurement;
- d) Impedance is within 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	n 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)	Liquid Temp. (℃)	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D750V3	Head	2.11	1.38	8.44	5.52	8.48	5.56	22.3	2023-02-27
D835V2	Head	2.51	1.64	10.04	6.56	9.52	6.17	22.1	2023-02-28
D1750V2	Head	9.15	4.88	36.60	19.52	35.30	18.70	22.2	2023-03-06
D1900V2	Head	9.36	4.94	37.44	19.76	39.70	20.30	22.3	2023-03-02
D2450V2	Head	13.40	6.20	53.60	24.80	52.20	24.50	22.1	2023-03-05
D2600V2	Head	14.00	6.27	56.00	25.08	57.10	25.40	21.9	2023-03-04

Table 5: SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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7 Test Configuration

7.1 3G SAR Test Reduction Procedure

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

7.2 Operation Configurations

7.2.1 GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a base station by air link. Using CMW500 the power lever is set to "5" and "0" in SAR of GSM 850 and GSM 1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 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, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

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

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



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7.2.2 WCDMA Test Configuration

1) . Output Power Verification

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

2) . Head SAR

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

3). Body SAR

SAR for body configurations is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreaing code or DPDCHn, for the highest reported 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 / DC-HSDPA

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

a) HSDPA

HSDPA is configured according to the applicable UE category of a test device. The number of HS-DSCH/HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms and a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors(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.



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

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

Note2:For the HS-DPCCH power mask requirement test in clause 5.2C,5.7A,and the Error Vector Magnitude(EVM) with HS-DPCCH test in clause 5.13.1.A,and HSDPA EVM with phase discontinuity in clause 5.13.1AA, ΔACK and ΔNACK= 8 (Ahs=30/15) with βhs=30/15*βc,and ΔCQI=

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

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

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

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

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



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

Table 7: HSDPA UE category

b) HSUPA

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



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Sub -test₽	βοσ	βd₽	βd (SF)θ	β₀∕β⋳₽	β _{hs} (1	β _{ec+} 3	$eta_{ m ed} arphi$	β _e _o (SF)+ ³	βed+ ¹ (code	CM(2)+1 (dB)+1	MP R↓ (dB)↓	AG(4)+ ¹ Inde x+ ¹	E- TFC I	4
1₽	11/15(3)+3	15/15(3)	64₽	11/15(3)+3	22/15₽	209/22 5 ₄ 3	1039/225₽	4 0	1₽	1.0₽	0.0	20₽	75₽	
20	6/15₽	15/15₽	64₽	6/15₽	12/15₽	12/15₽	94/75₽	4₽	1₽	3.0₽	2.0₽	12₽	67₽	
3₽	15/150	9/15₽	64₽	15/9₽	30/15₽	30/15₽	β _{ed1} :47/1 5 ₄ β _{ed2:} 47/1 5 ₄	4₽	2₽	2.0₽	1.0₽	150	92₽	4
4₽	2/15₽	15/15₽	64₽	2/15∉	4/15₽	2/150	56/75₽	4₽	1₽	3.0₄	2.0₽	17₽	71₽	,
5₽	15/15(4)43	15/15(4)(3)	64₽	15/15(4)43	30/15₽	24/15₽	134/15₽	4€	1€	1.0∉	0.0₽	210	81₽	4

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

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

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

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

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

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

Table 8: Subtests for UMTS Release 6 HSUPA

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Speading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	4.4500
2	2	4	10	4	14484	1.4592
3	2	4	10	4	14484	1.4592
4	2	8	2	2	5772	2.9185
4	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6	4	8	10	2SF2&2SF	11484	5.76
(No DPDCH)	4	4	2	4	20000	2.00
7	4	8	2	2SF2&2SF	22996	?
(No DPDCH)	4	4	10	4	20000	?

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

Table 9: HSUPA UE category



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c) DC-HSDPA

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

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

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

Table E.5.0: Levels for HSDPA connection setup

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

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

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

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

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

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

Note:

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



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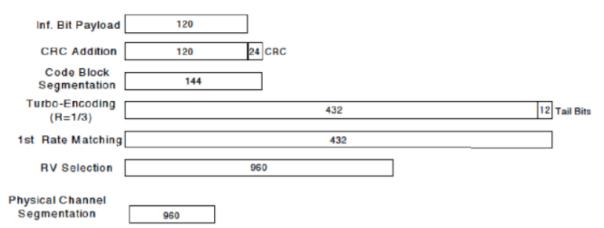


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

Sub-test₽	βe₽	$\beta_{d^{\omega}}$	β _d ·(SF)₽	$\beta_c \cdot / \beta_{d^{e^2}}$	β _{hs} (1)₽	CM(dB)(2)	MPR ·(dB)₀
1₽	2/15₽	15/15₽	64₽	2/15₽	4/15₽	0.0₽	0₽
2₽	12/15(3)	15/15(3)	64₽	12/15(3)	24/15₽	1.0₽	0₽
3₽	15/15₽	8/15₽	64₽	15/8₽	30/15₽	1.5₽	0.5₽
4₽	15/15₽	4/15₽	64₽	15/4₽	30/15₽	1.5₽	0.5₽

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

Note 2: CM=1 for $\beta_c/\beta_d=12/15$, $\beta_{hs}/\beta_c=24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases. Note 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1,TF1) to $\beta_c=11/15$ and $\beta_d=15/15$.

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

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



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d) HSPA+

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

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

- 1	Sub-	β _c ₊∣	βd⁴	βнs⊬	β _{ec} ₊	β _{ed} ₊	β _{ed} ₊	CM₽	MPR√	AG√	E-TFCI	E-TFCI	÷
	test₽	(Note3)₽		(Note1)₽	₽	(2xSF2) ↔		(dB) <i>⊷</i>	1/		(Note 5)	(boost)₽	ı
						(Note 4)₽	(Note 4)₽	(Note 2)⊹	(Note 2)⊹	(Note 4)₽			l
F	1₽	1₽	04□	30/15₽	30/15	βed1: 30/15↔	βed3: 24/15↔	3.5₽	2.5₽	14₽	105₽	105₽	÷
						βed2: 30/15₽	βed4: 24/15₽						

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

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

Note 3: DPDCH is not configured, therefore the β_o is set to 1 and β_d = 0 by default.

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

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



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7.2.3 WiFi Test Configuration

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

7.2.3.1 Duty cycle

1) Wi-Fi 2.4GHz 802.11b:





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7.2.3.2 Initial Test Position SAR Test Reduction Procedure

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

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

7.2.3.3 Initial Test Configuration Procedures

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required. SAR test reduction for subsequent highest output test channels is determined according to *reported* SAR of the initial test configuration. For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode. For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration.

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

7.2.3.4 Subsequent Test Configuration Procedures

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

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.



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2) . When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.

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



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7.2.3.5 2.4 GHz WiFi SAR Procedures

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

• 802.11b DSSS SAR Test Requirements

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

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

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

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

SAR Test Requirements for OFDM configurations

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



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7.2.4 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The Anritsu MT8821C was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

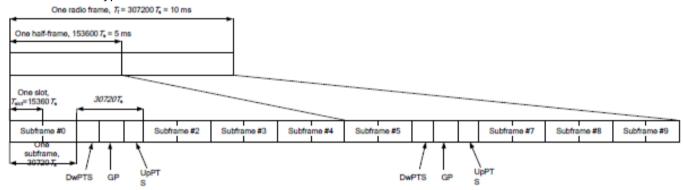
TDD LTE test consideration

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

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

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

Frame structure type 2:





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

Special	•	nal cyclic prefix in	downlink	Extended cyclic prefix in downlink				
subframe	DwPTS	Up	PTS	DwPTS	UpPTS			
configuration		Normal cyclic	Extended cyclic		Normal cyclic	Extended cyclic		
		prefix in uplink	prefix in uplink		prefix in uplink	prefix in uplink		
0	6592.Ts			7680.Ts				
1	19760.Ts			20480.Ts	2192.Ts	2560.Ts		
2	21952.Ts	2192.Ts	2560.Ts	23040.Ts	2192.15			
3	24144.Ts			25600.Ts				
4	26336.Ts			7680.Ts				
5	6592.Ts			20480.Ts	4384.Ts	5120.Ts		
6	19760.Ts			23040.Ts	4304.15	5120.15		
7	21952.Ts	4384.Ts	5120.Ts	25600.Ts				
8	24144.Ts			-	-	-		
9	13168.Ts			-	-	-		

Uplink-downlink configurations.

Uplink-downlink	Downlink-to-				St	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	٥	U	D	S	U	U	D

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

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



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A) Spectrum Plots for RB Configurations

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

B) MPR

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

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

C) A-MPR

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

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

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

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

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

4) Higher order modulations

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

E) Other channel bandwidth standalone SAR test requirements

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



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8 Test Result

8.1 Measurement of RF Conducted Power

8.1.1 Conducted Power of Main Antenna

8.1.1.1 Conducted Power of GSM

					GSN	A 850				
В	urst Output Po	wer(dBm	1)		T	Division Footons	Frame-Ave	rage Output F	Power(dBm)	T
Chanr	iel	128	190	251	Tune up	Division Factors	128	190	251	Tune up
GSM(GMSK)	GSM	32.56	32.61	32.71	33.50	-9.19	23.37	23.42	23.52	24.31
	1 TX Slot	32.52	32.59	32.70	33.50	-9.19	23.33	23.4	23.51	24.31
GPRS/EGPRS	2 TX Slots	30.61	30.53	30.47	31.50	-6.18	24.43	24.35	24.29	25.32
(GMSK)	3 TX Slots	27.81	27.72	27.71	29.50	-4.42	23.39	23.3	23.29	25.08
	4 TX Slots	25.63	25.52	25.82	27.50	-3.17	22.46	22.35	22.65	24.33
	1 TX Slot	25.62	25.65	25.68	28.50	-9.19	16.43	16.46	16.49	19.31
EGPRS(8PSK)	2 TX Slots	24.51	24.52	24.52	28.50	-6.18	18.33	18.34	18.34	22.32
EGFR3(0F3R)	3 TX Slots	21.01	21.11	21.04	24.50	-4.42	16.59	16.69	16.62	20.08
	4 TX Slots	18.92	19.03	19.10	22.50	-3.17	15.75	15.86	15.93	19.33
					GSM	1900				
В	urst Output Po	wer(dBm	1)		Tune up Division Factors		Frame-Ave	Tune up		
Chann	iel	512	661	810	Tune up	Division Factors	512	661	810	Turie up
GSM(GMSK)	GSM	29.01	29.08	29.10	30.50	-9.19	19.82	19.89	19.91	21.31
	1 TX Slot	29.00	29.05	29.01	30.50	-9.19	19.81	19.86	19.82	21.31
GPRS/EGPRS	2 TX Slots	27.16	27.18	26.43	28.50	-6.18	20.98	21.00	20.25	22.32
(GMSK)	3 TX Slots	25.03	25.87	25.04	27.00	-4.42	20.61	21.45	20.62	22.58
	4 TX Slots	23.26	24.25	23.51	25.50	-3.17	20.09	21.08	20.34	22.33
	1 TX Slot	26.11	25.81	25.62	27.00	-9.19	16.92	16.62	16.43	17.81
EGPRS(8PSK)	2 TX Slots	23.62	23.36	23.23	24.00	-6.18	17.44	17.18	17.05	17.82
LGI NO(0F3N)	3 TX Slots	22.03	21.86	21.70	23.50	-4.42	17.61	17.44	17.28	19.08
	4 TX Slots	20.91	20.72	20.55	22.50	-3.17	17.74	17.55	17.38	19.33

Table 11: Conducted Power of GSM Note:

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

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

- 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 > $\frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used



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8.1.1.2 Conducted Power of WCDMA

		WCDMA Band II			
	Averaç	ge Conducted Power	(dBm)		
	Channel	9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	23.05	23.11	22.97	23.70
WCDIVIA	12.2kbps AMR	23.01	23.08	22.95	23.70
	Subtest 1	22.07	22.05	21.96	22.90
HSDPA	Subtest 2	21.95	22.04	21.91	22.90
ПОДРА	Subtest 3	20.91	20.95	20.8	21.90
	Subtest 4	20.76	20.98	20.84	21.90
	Subtest 1	20.41	20.45	20.3	21.40
	Subtest 2	20.26	20.48	20.34	21.40
HSUPA	Subtest 3	20.3	20.32	20.18	21.40
	Subtest 4	20.16	20.34	20.24	21.40
	Subtest 5	21.81	21.68	21.71	22.90

	,	WCDMA Band IV										
	Average Conducted Power(dBm)											
	Channel	1312	1412	1513	Tune up							
WCDMA	12.2kbps RMC	23.65	23.58	23.62	23.70							
WCDIVIA	12.2kbps AMR	23.64	23.56	23.6	23.70							
	Subtest 1	21.92	21.95	21.82	22.90							
HSDPA	Subtest 2	21.84	21.94	21.77	22.90							
ПОДРА	Subtest 3	20.8	20.85	20.7	21.90							
	Subtest 4	20.63	20.83	20.7	21.90							
	Subtest 1	20.29	20.32	20.19	21.40							
	Subtest 2	20.16	20.38	20.22	21.40							
HSUPA	Subtest 3	20.19	20.18	20.04	21.40							
	Subtest 4	20.06	20.21	20.09	21.40							
	Subtest 5	21.7	21.54	21.6	22.90							

		WCDMA Band V										
	Average Conducted Power(dBm)											
	Channel	4132	4182	4233	Tune up							
WCDMA	12.2kbps RMC	23.15	23.25	23.15	23.70							
VVCDIVIA	12.2kbps AMR	23.05	23.15	23.05	23.70							
	Subtest 1	21.81	21.81	21.69	22.90							
HSDPA	Subtest 2	21.69	21.82	21.66	22.90							
ПЭПРА	Subtest 3	20.69	20.73	20.6	21.90							
	Subtest 4	20.51	20.68	20.58	21.90							
	Subtest 1	20.16	20.2	20.08	21.40							
	Subtest 2	20.01	20.25	20.11	21.40							
HSUPA	Subtest 3	20.08	20.08	19.91	21.40							
	Subtest 4	19.95	20.11	19.96	21.40							
	Subtest 5	21.6	21.44	21.46	22.90							

Table 12: Conducted Power of WCDMA



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8.1.1.3 Conducted Power of LTE

	LTE Band	d 2		Conducted Power(dBm)				
D 1 : W			55 " .	Channel	Channel	Channel	-	
Bandwidth	Modulation	RB size	RB offset	18607	18900	19193	Tune up	
		1	0	22.62	23.20	23.28	23.50	
		1	2	23.16	23.40	23.27	23.50	
		1	5	22.94	23.29	23.20	23.50	
	QPSK	3	0	21.95	22.48	22.35	23.50	
		3	2	22.04	22.42	22.27	23.50	
		3	3	21.98	22.40	22.30	23.50	
		6	0	21.98	22.38	22.19	22.50	
1.4MHz		1	0	21.65	22.10	22.23	22.50	
		1	2	22.13	22.42	22.20	22.50	
		1	5	21.86	22.12	21.82	22.50	
	16QAM	3	0	21.06	21.43	21.44	22.50	
		3	2	21.23	21.36	21.47	22.50	
		3	3	21.00	21.24	21.29	22.50	
		6	0	20.98	21.39	21.28	21.50	
				Channel	Channel	Channel	_	
Bandwidth	Modulation	RB size	RB offset	18615	18900	19185	Tune u	
		1	0	22.57	23.14	23.29	23.50	
		1	7	23.16	23.40	23.36	23.50	
		1	14	22.90	23.39	23.21	23.50	
	QPSK	8	0	21.95	22.43	22.32	22.50	
		8	4	21.99	22.47	22.22	22.50	
		8	7	21.97	22.37	22.31	22.50	
0.41.1		15	0	22.00	22.37	22.39	22.50	
3MHz		1	0	21.65	22.11	22.35	22.50	
		1	7	22.09	22.48	22.22	22.50	
		1	14	21.81	22.12	21.88	22.50	
	16QAM	8	0	21.06	21.42	21.47	21.50	
		8	4	21.22	21.40	21.46	21.50	
		8	7	21.03	21.28	21.30	21.50	
		15	0	20.96	21.31	21.25	21.50	
Bandwidth	Modulation	DR size	DR offset	Channel	Channel	Channel	Tuno	
Danuwiulii	Modulation	RB size	RB offset	18625	18900	19175	Tune u	
-		1	0	22.55	23.14	23.28	23.50	
		1	13	23.17	23.39	23.40	23.50	
		1	24	22.95	23.35	23.25	23.50	
	QPSK	12	0	22.02	22.41	22.36	22.50	
		12	6	21.99	22.43	22.18	22.50	
5MHz		12	13	22.01	22.36	22.31	22.50	
JIVII IZ		25	0	22.03	22.40	22.39	22.50	
		1	0	21.67	22.14	22.30	22.50	
		1	13	22.12	22.42	22.24	22.50	
	16QAM	1	24	21.84	22.13	21.86	22.50	
		12	0	21.06	21.41	21.47	21.50	
		12	6	21.26	21.38	21.44	21.50	



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		12	13	21.01	21.21	21.30	21.50
		25	0	21.01	21.35	21.25	21.50
			-	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	18650	18900	19150	Tune up
		1	0	22.55	23.17	23.29	23.50
		1	25	23.19	23.44	23.37	23.50
		1	49	22.88	23.32	23.24	23.50
	QPSK	25	0	21.98	22.44	22.34	22.50
		25	13	22.06	22.48	22.20	22.50
		25	25	22.04	22.36	22.32	22.50
400411-		50	0	21.99	22.41	22.41	22.50
10MHz		1	0	21.63	22.07	22.34	22.50
		1	25	22.09	22.45	22.23	22.50
		1	49	21.84	22.07	21.84	22.50
	16QAM	25	0	21.07	21.42	21.43	21.50
		25	13	21.22	21.31	21.50	21.50
		25	25	21.04	21.29	21.34	21.50
		50	0	21.03	21.33	21.25	21.50
D	Madulatian	DD -:	DD -#+	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	18675	18900	19125	Tune up
		1	0	22.61	23.20	23.27	23.50
		1	38	23.18	23.38	23.38	23.50
		1	74	22.90	23.30	23.19	23.50
	QPSK	36	0	21.98	22.45	22.35	22.50
		36	18	22.03	22.42	22.20	22.50
		36	39	22.00	22.38	22.31	22.50
45MH-		75	0	21.98	22.40	22.36	22.50
15MHz		1	0	21.64	22.10	22.36	22.50
		1	38	22.13	22.45	22.25	22.50
		1	74	21.84	22.08	21.85	22.50
	16QAM	36	0	21.07	21.40	21.43	21.50
		36	18	21.24	21.37	21.49	21.50
		36	39	21.04	21.23	21.36	21.50
		75	0	21.01	21.37	21.27	21.50
Dondusi - Itl-	Moduletien	DD -:	DD c#+	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	18700	18900	19100	Tune up
		1	0	22.65	23.47	23.32	23.50
		1	50	23.26	23.45	23.46	23.50
		1	99	22.98	23.39	23.29	23.50
	QPSK	50	0	22.07	22.45	22.41	22.50
		50	25	22.07	22.42	22.31	22.50
		50	50	22.03	22.40	22.43	22.50
20MLI-		100	0	22.10	22.44	22.41	22.50
20MHz		1	0	21.70	22.16	22.40	22.50
		1	50	22.20	22.47	22.33	22.50
		1	99	21.93	22.19	21.95	22.50
	16QAM	50	0	21.13	21.45	21.42	21.50
		50	25	21.30	21.45	21.41	21.50
		50	50	21.07	21.32	21.38	21.50
		100	0	21.04	21.42	21.32	21.50



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	LTE Ban	d 4			Conducted	Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
Danuwiuiii	Wodulation	RD SIZE	KD Ollset	19957	20175	20393	Tune up
		1	0	22.76	22.55	22.70	24.50
		1	2	22.96	22.93	22.93	24.50
		1	5	22.71	22.62	22.54	24.50
	QPSK	3	0	23.09	22.95	22.86	24.50
		3	2	22.99	22.94	22.86	24.50
		3	3	22.84	22.86	22.82	24.50
4.48411-		6	0	22.05	21.86	21.79	23.50
1.4MHz		1	0	21.59	21.56	21.59	23.50
		1	2	22.13	22.02	21.73	23.50
		1	5	21.53	22.09	21.54	23.50
	16QAM	3	0	22.12	21.85	21.90	23.50
		3	2	22.14	21.74	21.78	23.50
		3	3	21.94	21.92	21.63	23.50
		6	0	21.04	20.90	20.86	22.50
			-	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	19965	20175	20385	Tune up
		1	0	22.73	22.57	22.70	24.50
		1	7	23.03	22.94	22.97	24.50
		1	14	22.75	22.58	22.51	24.50
	QPSK	8	0	21.99	21.90	21.90	23.50
		8	4	21.96	21.96	21.92	23.50
		8	7	21.85	21.86	21.82	23.50
		15	0	22.00	21.93	21.82	23.50
3MHz	16QAM	1	0	21.63	21.56	21.55	23.50
		1	7	22.16	21.99	21.68	23.50
		1	14	21.53	22.12	21.52	23.50
		8	0	21.08	20.83	20.96	22.50
		8	4	21.07	20.75	20.76	22.50
		8	7	20.86	20.73	20.70	22.50
		15	0	20.99	20.87	20.85	22.50
		13	0	Channel	Channel	Channel	22.50
Bandwidth	Modulation	RB size	RB offset	19975	20175	20375	Tune up
		1	0	22.74	22.59	22.64	24.50
		1	13	22.74			24.50
		1	24	22.73	22.89 22.58	22.96 22.54	24.50
	ODCK			ł	†		1
	QPSK	12	0	22.04	21.89	21.90	23.50
		12	6	21.97	21.91	21.90	23.50
		12	13	21.85	21.86	21.80	23.50
5MHz		25	0	22.02	21.93	21.85	23.50
		1	0	21.67	21.54	21.52	23.50
		1	13	22.11	21.98	21.70	23.50
		1	24	21.56	22.12	21.57	23.50
	16QAM	12	0	21.17	20.83	20.90	22.50
		12	6	21.15	20.77	20.79	22.50
		12	13	20.89	20.92	20.65	22.50
		25	0	20.98	20.87	20.83	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up



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	I	I	I	20000	20175	20350	1
		1	0	22.73	22.51	22.66	24.50
		1	25	22.98	22.89	22.97	24.50
	0.001/	1	49	22.74	22.57	22.52	24.50
	QPSK	25	0	22.05	21.94	21.89	23.50
		25	13	22.01	21.94	21.90	23.50
		25	25	21.88	21.88	21.77	23.50
10MHz		50	0	21.97	21.96	21.79	23.50
10111112		1	0	21.68	21.56	21.54	23.50
		1	25	22.11	22.02	21.66	23.50
		1	49	21.52	22.13	21.51	23.50
	16QAM	25	0	21.10	20.82	20.91	22.50
		25	13	21.14	20.78	20.81	22.50
		25	25	20.88	20.88	20.61	22.50
		50	0	20.96	20.82	20.84	22.50
D 1 · · · · ·			DD " 1	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	20025	20175	20325	Tune up
		1	0	22.71	22.55	22.70	24.50
		1	38	22.99	22.89	22.98	24.50
	QPSK 16QAM	1	74	22.67	22.61	22.56	24.50
		36	0	22.07	21.98	21.93	23.50
		36	18	21.98	21.98	21.92	23.50
		36	39	21.88	21.89	21.81	23.50
		75	0	22.04	21.91	21.78	23.50
15MHz		1	0	21.62	21.53	21.55	23.50
		1	38	22.12	22.06	21.64	23.50
		1	74	21.56	22.16	21.50	23.50
			0	21.30	20.80	20.93	23.50
		36					
		36	18	21.12	20.82	20.84	22.50
		36	39	20.86	20.96	20.62	22.50
		75	0	21.05	20.87	20.88	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20050	20175	20300	·
		1	0	22.79	23.05	22.74	24.50
		1	50	23.03	22.96	23.01	24.50
		1	99	22.82	22.69	22.58	24.50
	QPSK	50	0	22.14	22.15	21.95	23.50
		50	25	22.06	22.04	21.97	23.50
		50	50	21.94	21.97	21.91	23.50
20MHz		100	0	22.09	21.98	21.85	23.50
ZUIVIFIZ		1	0	21.72	21.59	21.52	23.50
		1	50	22.21	22.07	21.78	23.50
		1	99	21.55	22.19	21.62	23.50
	16QAM	50	0	21.20	20.89	21.02	22.50
		50	25	21.20	20.87	20.89	22.50
					20.98		
		50	50	20.99	20.90	20.74	22.50



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	LTE Ban	d 5			Conducted	Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Dandwidth	Wodulation	IND SIZE	NB onset	20407	20525	20643	rune up
		1	0	23.56	23.42	23.40	24.50
		1	2	23.97	23.86	23.82	24.50
		1	5	23.41	23.56	23.19	24.50
	QPSK	3	0	22.84	22.71	22.72	24.50
		3	2	22.80	22.70	22.69	24.50
		3	3	22.66	22.62	22.59	24.50
1.4MHz		6	0	22.74	22.71	22.65	23.50
1.4111112		1	0	22.50	22.47	22.44	23.50
		1	2	22.27	22.50	22.66	23.50
		1	5	22.27	22.61	22.37	23.50
	16QAM	3	0	21.80	21.71	21.73	23.50
		3	2	21.66	21.71	21.87	23.50
		3	3	21.54	21.85	21.69	23.50
		6	0	21.82	21.75	21.71	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Dandwidth	Wodulation	ND SIZE	KB onset	20415	20525	20635	rune up
		1	0	23.54	23.44	23.43	24.50
		1	7	23.96	23.86	23.80	24.50
		1	14	23.42	23.55	23.20	24.50
	QPSK	8	0	22.82	22.71	22.77	23.50
		8	4	22.82	22.71	22.66	23.50
		8	7	22.65	22.61	22.57	23.50
3MHz		15	0	22.75	22.70	22.65	23.50
SIVITZ	16QAM	1	0	22.50	22.47	22.43	23.50
		1	7	22.29	22.51	22.68	23.50
		1	14	22.29	22.64	22.35	23.50
		8	0	21.79	21.70	21.72	22.50
		8	4	21.68	21.75	21.82	22.50
		8	7	21.56	21.81	21.65	22.50
		15	0	21.81	21.76	21.72	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwium	Wodulation	KD Size	KD Ollset	20425	20525	20625	Turie up
		1	0	23.55	23.42	23.38	24.50
		1	13	23.96	23.83	23.80	24.50
		1	24	23.44	23.53	23.16	24.50
	QPSK	12	0	22.82	22.72	22.74	23.50
		12	6	22.80	22.70	22.68	23.50
		12	13	22.68	22.65	22.57	23.50
5MHz		25	0	22.72	22.71	22.64	23.50
JIVII IZ		1	0	22.50	22.44	22.45	23.50
		1	13	22.31	22.53	22.64	23.50
		1	24	22.29	22.62	22.36	23.50
	16QAM	12	0	21.78	21.72	21.75	22.50
		12	6	21.67	21.73	21.83	22.50
		12	13	21.59	21.84	21.68	22.50
		25	0	21.79	21.78	21.71	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up



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1				20450	20525	20600	
		1	0	24.06	23.52	23.48	24.50
		1	25	24.05	23.93	23.87	24.50
		1	49	23.51	23.63	23.25	24.50
	QPSK	25	0	22.89	22.77	22.82	23.50
		25	13	22.88	22.77	22.75	23.50
		25	25	22.75	22.70	22.66	23.50
10MHz		50	0	22.80	22.79	22.71	23.50
TOME		1	0	22.55	22.53	22.51	23.50
		1	25	22.37	22.58	22.73	23.50
		1	49	22.36	22.69	22.43	23.50
	16QAM	25	0	21.87	21.77	21.80	22.50
		25	13	21.73	21.81	21.92	22.50
		25	25	21.64	21.91	21.74	22.50
		50	0	21.87	21.84	21.81	22.50

	LTE Band	l 12		Conducted Power(dBm)				
			<i>"</i>	Channel	Channel	Channel	_	
Bandwidth	Modulation	RB size	RB offset	23017	23095	23173	Tune up	
		1	0	22.54	22.50	22.64	24.50	
		1	2	22.91	22.91	23.10	24.50	
		1	5	22.79	22.53	22.68	24.50	
	QPSK	3	0	22.76	22.88	23.08	24.50	
		3	2	22.88	22.99	23.18	24.50	
		3	3	22.96	22.96	22.99	24.50	
1.4MHz		6	0	21.81	21.96	22.09	23.50	
1.4Ⅳ□∠		1	0	21.55	21.55	21.52	23.50	
		1	2	22.41	22.16	22.16	23.50	
	16QAM	1	5	21.54	21.66	21.52	23.50	
		3	0	21.72	21.81	22.12	23.50	
		3	2	21.73	22.14	22.07	23.50	
		3	3	21.63	21.95	21.98	23.50	
		6	0	20.65	20.95	21.03	22.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
Dandwidth	Wodulation	ND Size	ND onset	23025	23095	23165	rune up	
		1	0	22.53	22.54	22.68	24.50	
		1	7	22.93	22.91	23.08	24.50	
		1	14	22.77	22.51	22.69	24.50	
	QPSK	8	0	21.76	21.90	22.08	23.50	
		8	4	21.88	22.01	22.21	23.50	
		8	7	21.93	21.98	22.00	23.50	
3MHz		15	0	21.81	21.93	22.10	23.50	
SIVITZ		1	0	21.56	21.54	21.51	23.50	
		1	7	22.39	22.15	22.14	23.50	
		1	14	21.55	21.67	21.51	23.50	
	16QAM	8	0	20.73	20.79	21.07	22.50	
		8	4	20.75	21.15	21.06	22.50	
		8	7	20.67	20.96	21.00	22.50	
		15	0	20.62	20.92	20.99	22.50	



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D 1 : W	l	RB size RB offset		Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	23035	23095	23155	Tune up
		1	0	22.55	22.59	22.66	24.50
		1	13	22.92	22.92	23.12	24.50
		1	24	22.80	22.51	22.67	24.50
	QPSK	12	0	21.76	21.91	22.12	23.50
		12	6	21.86	21.97	22.18	23.50
		12	13	21.93	21.97	21.99	23.50
CN411-		25	0	21.86	21.95	22.14	23.50
5MHz		1	0	21.51	21.53	21.50	23.50
		1	13	22.38	22.20	22.12	23.50
		1	24	21.52	21.63	21.52	23.50
	16QAM	12	0	20.72	20.76	21.07	22.50
		12	6	20.78	21.14	21.04	22.50
		12	13	20.63	20.98	20.96	22.50
		25	0	20.62	20.94	21.03	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	T
Dandwidth	Wodulation	KD SIZE	Rb oliset	23060	23095	23130	Tune up
		1	0	22.51	23.18	22.73	24.50
		1	25	23.00	23.00	23.17	24.50
		1	49	22.85	22.60	22.77	24.50
	QPSK	25	0	21.84	22.29	22.18	23.50
		25	13	21.96	22.06	22.27	23.50
		25	25	22.01	22.04	22.09	23.50
10MHz		50	0	21.91	22.01	22.19	23.50
TUIVITZ		1	0	21.51	21.52	21.57	23.50
		1	25	22.47	22.25	22.22	23.50
		1	49	21.57	21.72	21.60	23.50
	16QAM	25	0	20.81	20.86	21.17	22.50
		25	13	20.83	21.21	21.12	22.50
		25	25	20.73	21.03	21.05	22.50
		50	0	20.72	21.00	21.09	22.50

	LTE Band 41 Class3				Conducted Power(dBm)						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tungun		
Dandwidth	Modulation	KD SIZE	RB oliset	39675	40148	40620	41093	41565	Tune up		
		1	0	23.44	23.70	23.92	23.67	24.17	24.70		
		1	13	23.60	23.76	24.13	23.73	24.35	24.70		
		1	24	23.39	23.87	23.96	23.74	24.11	24.70		
	QPSK	12	0	22.56	22.98	23.37	22.89	23.44	23.70		
		12	6	22.54	22.94	23.39	22.94	23.47	23.70		
		12	13	22.52	22.79	23.03	22.70	23.34	23.70		
5MHz		25	0	22.51	22.75	23.19	22.67	23.38	23.70		
		1	0	22.24	22.23	22.96	22.15	23.21	23.70		
		1	13	22.39	22.61	22.77	22.51	23.12	23.70		
	16001	1	24	22.21	22.54	22.75	22.40	22.69	23.70		
	16QAM	12	0	21.55	22.03	22.59	21.98	22.66	22.70		
		12	6	21.64	22.11	22.68	22.06	22.68	22.70		
		12	13	21.41	22.04	22.46	21.99	22.56	22.70		



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	I	25	0	21.44	21.91	22.48	21.79	22.37	22.70
				Channel	Channel	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	39700	40160	40620	41080	41540	Tune up
		1	0	23.46	23.74	23.89	23.70	24.16	24.70
		1	25	23.60	23.79	24.13	23.70	24.33	24.70
		1	49	23.39	23.87	23.97	23.75	24.16	24.70
	QPSK	25	0	22.57	22.99	23.37	22.88	23.41	23.70
		25	13	22.56	22.96	23.38	22.94	23.48	23.70
		25	25	22.48	22.79	23.01	22.71	23.34	23.70
		50	0	22.53	22.71	23.18	22.67	23.43	23.70
10MHz		1	0	22.22	22.25	23.00	22.11	23.23	23.70
		1	25	22.39	22.58	22.78	22.49	23.14	23.70
		1	49	22.21	22.56	22.78	22.40	22.65	23.70
	16QAM	25	0	21.51	21.99	22.55	21.99	22.60	22.70
		25	13	21.63	22.11	22.62	22.04	22.63	22.70
		25	25	21.39	22.04	22.46	21.98	22.56	22.70
		50	0	21.44	21.91	22.50	21.81	22.40	22.70
			-	Channel	Channel	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	39725	40173	40620	41068	41515	Tune up
		1	0	23.45	23.74	23.90	23.70	24.15	24.70
		1	38	23.62	23.80	24.12	23.70	24.37	24.70
		1	74	23.40	23.90	23.96	23.77	24.12	24.70
	QPSK	36	0	22.59	23.01	23.35	22.86	23.45	23.70
		36	18	22.54	22.93	23.38	22.97	23.44	23.70
		36	39	22.52	22.78	23.04	22.74	23.34	23.70
		75	0	22.52	22.76	23.19	22.68	23.38	23.70
15MHz		1	0	22.25	22.22	23.01	22.12	23.19	23.70
		1	38	22.39	22.60	22.79	22.47	23.17	23.70
		1	74	22.26	22.52	22.78	22.42	22.64	23.70
	16QAM	36	0	21.54	22.01	22.58	21.96	22.70	22.70
		36	18	21.59	22.12	22.63	22.02	22.65	22.70
		36	39	21.40	22.06	22.51	21.98	22.56	22.70
		75	0	21.49	21.90	22.52	21.83	22.37	22.70
			-	Channel	Channel	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	39750	40185	40620	41055	41490	Tune up
		1	0	23.74	23.99	24.55	23.95	24.22	24.70
		1	50	23.67	23.85	24.19	23.79	24.20	24.70
		1	99	23.45	23.97	24.02	23.82	24.21	24.70
	QPSK	50	0	22.66	23.06	23.60	22.95	23.51	23.70
		50	25	22.61	23.02	23.47	23.02	23.53	23.70
		50	50	22.58	22.88	23.11	22.79	23.40	23.70
		100	0	22.60	22.81	23.24	22.76	23.48	23.70
20MHz		1	0	22.30	22.32	23.06	22.21	23.29	23.70
		1	50	22.44	22.66	22.84	22.57	23.22	23.70
		1	99	22.31	22.62	22.83	22.47	22.74	23.70
	16QAM	50	0	21.61	22.09	22.65	22.04	22.66	22.70
		50	25	21.69	22.20	22.68	22.12	22.61	22.70
		50	50	21.47	22.11	22.56	22.04	22.62	22.70
		100	0	21.54	21.97	22.58	21.89	22.46	22.70



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	LTE Band 41	Class2				Conducted I	Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel 39675	Channel 40148	Channel 40620	Channel 41093	Channel 41565	Tune up
		1	0	24.91	25.09	25.19	25.09	25.42	25.70
		1	13	24.99	25.19	25.40	25.18	25.58	25.70
		1	24	24.84	25.33	25.27	25.23	25.39	25.70
	QPSK	12	0	23.97	24.40	24.65	24.31	24.66	24.70
		12	6	23.98	24.46	24.64	24.31	24.70	24.70
		12	13	23.91	24.24	24.37	24.20	24.58	24.70
		25	0	23.92	24.15	24.50	24.10	24.63	24.70
5MHz		1	0	23.65	23.66	24.26	23.53	24.50	24.70
		1	13	23.81	23.97	24.08	23.94	24.45	24.70
		1	24	23.67	23.97	24.09	23.88	23.94	24.70
	16QAM	12	0	22.92	23.46	23.56	23.41	23.63	23.70
		12	6	23.02	23.54	23.69	23.48	23.66	23.70
		12	13	22.78	23.45	23.47	23.44	23.46	23.70
		25	0	22.92	23.36	23.42	23.20	23.66	23.70
				Channel	Channel	Channel	Channel	Channel	200
Bandwidth	Modulation	RB size	RB offset	39700	40160	40620	41080	41540	Tune up
		1	0	24.92	25.14	25.16	25.04	25.43	25.70
		1	25	25.01	25.25	25.40	25.15	25.55	25.70
		1	49	24.83	25.31	25.26	25.21	25.39	25.70
	QPSK	25	0	24.03	24.43	24.66	24.29	24.67	24.70
	<u> </u>	25	13	24.01	24.40	24.69	24.39	24.67	24.70
		25	25	23.98	24.24	24.31	24.13	24.53	24.70
		50	0	23.95	24.18	24.49	24.09	24.67	24.70
10MHz		1	0	23.64	23.64	24.26	23.58	24.45	24.70
		1	25	23.85	24.00	24.03	23.94	24.41	24.70
		1	49	23.66	23.92	24.08	23.87	23.88	24.70
	16QAM	25	0	22.97	23.44	23.54	23.40	23.62	23.70
		25	13	23.06	23.54	23.67	23.48	23.63	23.70
		25	25	22.82	23.49	23.45	23.44	23.44	23.70
		50	0	22.88	23.34	23.47	23.23	23.68	23.70
				Channel	Channel	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	39725	40173	40620	41068	41515	Tune up
		1	0	24.90	25.13	25.23	25.08	25.40	25.70
		1	38	25.05	25.28	25.42	25.21	25.60	25.70
		1	74	24.79	25.31	25.28	25.17	25.43	25.70
	QPSK	36	0	24.01	24.36	24.68	24.33	24.69	24.70
		36	18	23.99	24.45	24.65	24.33	24.65	24.70
		36	39	23.95	24.29	24.34	24.14	24.51	24.70
		75	0	23.95	24.16	24.45	24.13	24.64	24.70
15MHz		1	0	23.68	23.68	24.30	23.57	24.45	24.70
		1	38	23.79	24.02	24.01	23.97	24.40	24.70
		1	74	23.68	23.91	24.10	23.84	23.93	24.70
	16QAM	36	0	22.95	23.48	23.53	23.39	23.58	23.70
		36	18	23.07	23.50	23.67	23.47	23.64	23.70
		36	39	22.82	23.47	23.47	23.37	23.41	23.70
		75	0	22.89	23.33	23.47	23.29	23.60	23.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
		0.20	3,1000	J	J	J	J	J	o up



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	1			39750	40185	40620	41055	41490	
		1	0	24.96	25.22	25.67	25.15	25.44	25.70
		1	50	25.11	25.33	25.47	25.25	25.66	25.70
		1	99	24.91	25.41	25.33	25.31	25.47	25.70
	QPSK	50	0	24.05	24.48	24.65	24.37	24.62	24.70
		50	25	24.03	24.45	24.58	24.44	24.66	24.70
		50	50	23.99	24.35	24.41	24.26	24.59	24.70
20MHz		100	0	24.03	24.29	24.58	24.22	24.65	24.70
ZUIVITZ		1	0	23.76	23.74	24.34	23.62	24.53	24.70
		1	50	23.92	24.11	24.15	24.02	24.48	24.70
		1	99	23.75	24.06	24.15	23.95	24.00	24.70
	16QAM	50	0	23.05	23.50	23.63	23.50	23.65	23.70
		50	25	23.13	23.64	23.62	23.58	23.62	23.70
		50	50	22.90	23.57	23.55	23.45	23.51	23.70
		100	0	22.99	23.42	23.54	23.36	23.65	23.70

	LTE Band	66			Conducted I	Power(dBm)	
D 1 : W			DD (()	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	131979	132322	132665	Tune up
		1	0	22.84	22.71	22.79	24.50
		1	2	23.11	22.99	23.09	24.50
		1	5	22.83	22.77	22.65	24.50
	QPSK	3	0	23.18	23.04	23.02	24.50
		3	2	23.07	23.13	22.98	24.50
		3	3	23.00	23.02	22.89	24.50
1.4MHz		6	0	22.12	21.99	21.89	23.50
1.4IVITZ		1	0	21.72	21.56	21.53	23.50
		1	2	22.28	22.13	21.79	23.50
	16QAM	1	5	21.59	22.24	21.61	23.50
		3	0	22.29	21.91	22.02	23.50
		3	2	22.21	21.88	21.92	23.50
		3	3	22.02	22.03	21.78	23.50
		6	0	21.14	21.01	20.98	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwiuin	Modulation	RB size	RD Ollset	131987	132322	132657	Turie up
		1	0	22.85	22.71	22.83	24.50
		1	7	23.13	23.00	23.17	24.50
		1	14	22.80	22.81	22.65	24.50
	QPSK	8	0	22.23	22.00	22.05	23.50
		8	4	22.14	22.04	22.02	23.50
		8	7	21.98	21.96	21.92	23.50
3MHz		15	0	22.16	22.00	21.92	23.50
JIVII IZ		1	0	21.76	21.54	21.52	23.50
		1	7	22.26	22.15	21.78	23.50
		1	14	21.58	22.32	21.61	23.50
	16QAM	8	0	21.24	20.91	21.05	22.50
		8	4	21.25	20.88	20.88	22.50
		8	7	21.01	21.02	20.79	22.50
		15	0	21.12	21.04	20.98	22.50



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Dandwidth	Modulation	ND SIZE	KD Oliset	131997	132322	132647	Tune up
		1	0	22.83	22.70	22.82	24.50
		1	13	23.06	23.01	23.10	24.50
		1	24	22.80	22.72	22.68	24.50
	QPSK	12	0	22.15	22.05	22.00	23.50
		12	6	22.11	22.08	22.01	23.50
		12	13	21.98	22.01	21.92	23.50
51411		25	0	22.11	22.00	21.93	23.50
5MHz		1	0	21.75	21.61	21.62	23.50
		1	13	22.21	22.16	21.77	23.50
		1	24	21.53	22.28	21.62	23.50
	16QAM	12	0	21.27	20.89	21.00	22.50
		12	6	21.25	20.89	20.89	22.50
		12	13	20.98	21.03	20.78	22.50
		25	0	21.10	21.04	20.99	22.50
			-	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	132022	132322	132622	Tune up
		1	0	22.84	22.70	22.85	24.50
		1	25	23.10	23.03	23.15	24.50
		1	49	22.85	22.74	22.69	24.50
	QPSK	25	0	22.03	22.74	22.09	23.50
	QPSN	25	13	22.22	22.01	22.02	23.50
10MHz		-	25	22.14	22.10	+	23.50
		25	_			21.96	
		50	0	22.13	22.04	21.89	23.50
		1	0	21.74	21.52	21.55	23.50
		1	25	22.25	22.15	21.80	23.50
		1	49	21.53	22.26	21.63	23.50
	16QAM	25	0	21.23	20.90	20.98	22.50
		25	13	21.28	20.89	20.93	22.50
		25	25	21.02	21.04	20.74	22.50
		50	0	21.09	21.02	20.94	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20		. 12 0.20	. 1.2 0001	132047	132322	132597	
		1	0	22.80	22.65	22.79	24.50
		1	38	23.08	23.00	23.11	24.50
		1	74	22.83	22.71	22.65	24.50
	QPSK	36	0	22.16	22.03	21.98	23.50
		36	18	22.14	22.04	22.00	23.50
		36	39	21.97	22.05	21.89	23.50
15MHz		75	0	22.09	22.03	21.91	23.50
I JIVII 1Z		1	0	21.76	21.51	21.51	23.50
		1	38	22.24	22.12	21.78	23.50
		1	74	21.54	22.30	21.61	23.50
	16QAM	36	0	21.23	20.89	20.98	22.50
		36	18	21.25	20.90	20.91	22.50
		36	39	20.99	21.03	20.73	22.50
		75	0	21.09	20.98	21.01	22.50
			-	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	132072	132322	132572	Tune up
20MHz	QPSK	1	0	22.91	23.21	22.89	24.50



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	1	50	23.20	23.08	23.16	24.50
	1	99	22.90	22.82	22.72	24.50
	50	0	22.29	22.30	22.10	23.50
	50	25	22.17	22.17	22.12	23.50
	50	50	22.09	22.06	22.00	23.50
	100	0	22.19	22.09	22.01	23.50
	1	0	21.83	21.53	21.54	23.50
	1	50	22.32	22.23	21.88	23.50
	1	99	21.53	22.33	21.72	23.50
16QAM	50	0	21.32	20.97	21.10	22.50
	50	25	21.30	20.93	20.96	22.50
	50	50	21.10	21.09	20.83	22.50
	100	0	21.18	21.05	21.05	22.50

	LTE Band	l 71	Conducted Power(dBm)				
Danis alterit altila	Madulatian	DD sins	DD -#+	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	133147	133247	133447	Tune up
		1	0	22.73	22.67	22.61	24.50
		1	13	23.17	23.07	23.00	24.50
		1	24	22.64	22.77	22.56	24.50
	QPSK	12	0	22.01	21.87	21.97	23.50
		12	6	21.99	21.90	21.85	23.50
		12	13	21.87	21.83	21.76	23.50
5MHz		25	0	21.94	21.89	21.86	23.50
SIVIHZ		1	0	21.68	21.68	21.65	23.50
		1	13	21.57	21.68	21.85	23.50
		1	24	21.50	21.80	21.58	23.50
	16QAM	12	0	21.01	20.91	20.92	22.50
		12	6	20.88	20.91	21.05	22.50
		12	13	20.76	21.03	20.84	22.50
		25	0	20.98	20.95	20.95	22.50
Danis alveri alkla	Madulatian	DD -i	DD -#+	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	133172	133272	133422	Tune up
		1	0	22.74	22.67	22.60	24.50
		1	25	23.15	23.08	22.99	24.50
		1	49	22.62	22.74	22.56	24.50
	QPSK	25	0	22.01	21.87	21.92	23.50
		25	13	21.98	21.88	21.87	23.50
		25	25	21.88	21.81	21.77	23.50
10MHz		50	0	21.91	21.93	21.84	23.50
TUNIHZ		1	0	21.67	21.64	21.63	23.50
		1	25	21.57	21.72	21.84	23.50
		1	49	21.56	21.80	21.56	23.50
	16QAM	25	0	20.98	20.91	20.91	22.50
		25	13	20.83	20.93	21.03	22.50
		25	25	20.76	21.01	20.87	22.50
		50	0	21.00	20.97	20.91	22.50
Dana di vi dela	NA - de de 46 - co	DD -i	DD -#+	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	133197	133297	133397	Tune up
15MHz	QPSK	1	0	22.76	22.63	22.62	24.50



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					_	-	
		1	38	23.15	23.07	23.02	24.50
		1	74	22.65	22.78	22.54	24.50
		36	0	22.03	21.92	21.96	23.50
		36	18	21.99	21.90	21.89	23.50
		36	39	21.89	21.83	21.80	23.50
		75	0	21.93	21.92	21.83	23.50
		1	0	21.68	21.68	21.62	23.50
		1	38	21.57	21.73	21.83	23.50
		1	74	21.56	21.82	21.54	23.50
	16QAM	36	0	21.01	20.89	20.93	22.50
		36	18	20.85	20.91	21.02	22.50
		36	39	20.77	21.05	20.88	22.50
		75	0	20.98	20.99	20.95	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tunaun
Danuwium	Modulation	RD SIZE	RD Ollset	133222	133322	133372	Tune up
		1	0	22.75	23.18	22.62	24.50
		1	50	23.17	23.06	23.01	24.50
		1	99	22.64	22.76	22.55	24.50
	QPSK	50	0	22.02	22.03	21.95	23.50
		50	25	22.02	21.87	21.86	23.50
		50	50	21.90	21.82	21.77	23.50
20MHz		100	0	21.93	21.92	21.86	23.50
ZUIVITIZ		1	0	21.66	21.65	21.62	23.50
		1	50	21.50	21.73	21.85	23.50
		1	50 99	21.50 21.57	21.73 21.83	21.85 21.57	23.50 23.50
	16QAM						
	16QAM	1	99	21.57	21.83	21.57	23.50
	16QAM	1 50	99	21.57 21.00	21.83 20.87	21.57 20.93	23.50 22.50

Table 13: Conducted Power of LTE



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8.1.2 Conducted Power of WIFI and BT

Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)
	1	2412		17.00	16.16
802.11b	6	2437	1	17.00	16.58
	11	2462		17.00	16.56
	1	2412		13.00	12.26
802.11g	6	2437	6	13.00	11.43
	11	2462		13.00	12.53
222.4.4	1	2412		11.00	10.18
802.11n HT20	6	2437	6.5	11.00	9.51
11120	11	2462		11.00	10.62
000.44	3	2422		9.00	8.51
802.11n HT40	6	2437	13.5	9.00	7.92
11140	9	2452		9.00	7.04

Table 14: Conducted Power of 2.4G WIFI

	BT		Tune un (dDm)	Average Conducted Dower(dDm)
Modulation	Channel	Frequency(MHz)	Tune up (dBm)	Average Conducted Power(dBm)
	0	2402	3.00	-0.88
GFSK	39	2441	3.00	-0.06
	78	2480	3.00	-1.45
	0	2402	3.00	-2.49
π/4DQPSK	39	2441	3.00	-1.63
	78	2480	3.00	-2.96
	0	2402	3.00	-2.36
8DPSK	39	2441	3.00	-1.62
	78	2480	3.00	-2.95

Table 15: Conducted Power of BT



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8.2 Stand-alone SAR test evaluation

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and Product specific 10g SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

Freq. Band	Frequency	· · Position Power Separation		Exclusion	Exclusion			
(GHz)			dBm	mW	(mm)	Value	Threshold	(Y/N)
		Head	17.0	50.1	0	15.7	3	N
Wi-Fi	2.45	Body-worn	17.0	50.1	15	5.2	3	N
		hotspot	17.0	50.1	10	7.8	3	N
		Head	3.0	2.0	0	0.6	3	Y
Bluetooth	2.48	Body-worn	3.0	2.0	15	0.2	3	Y
		hotspot	3.0	2.0	10	0.3	3	Υ

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Estimated SAR Result:

Freq. Band	Frequency (GHz)	Test Position	max. power(dBm)	Test Separation (mm)	Estimated 1g SAR (W/kg)
		Head	3.0	0	0.084
Bluetooth	2.48	Body-worn	3.0	15	0.028
		hotspot	3.0	10	0.042



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8.3 Measurement of SAR Data

8.3.1 SAR Result of GSM850

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1- g	Power Drift(dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp
					Head Test d	ata				
Left cheek	GSM	190/836.6	1:8.3	0.166	0.07	32.61	33.50	1.227	0.204	22.1
				Body worn	Test data(Se	eparate 15mm)				
Back side	GSM	190/836.6	1:8.3	0.227	0.06	32.61	33.50	1.227	0.279	22.1
	Hotspot Test data(Separate 10mm)									
Back side	GPRS 3TS	190/836.6	1:2.77	0.302	0.03	30.53	31.50	1.250	0.378	22.1

Table 16: SAR of GSM850(variant). Note:

- 1)The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is \leq 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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8.3.2 SAR Result of GSM1900

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1- g	Power Drift(dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp
					Head Test d	ata				
Left cheek	GSM	661/1880	1:8.3	0.087	0.01	29.08	30.50	1.387	0.121	22.3
				Body worn	Test data(Se	parate 15mm)				
Front side	GSM	661/1880	1:8.3	0.067	0.03	29.08	30.50	1.387	0.093	22.3
	Hotspot Test data(Separate 10mm)									
Back side	GPRS 3TS	661/1880	1:2.77	0.150	0.03	25.87	27.00	1.297	0.195	22.3

Table 17: SAR of GSM1900(variant).

Note:

- 1)The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is \leq 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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8.3.3 SAR Result of WCDMA Band II

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1- g	Power Drift(dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp
					Head Test d	ata				
Left cheek	RMC	9400/1880	1:1	0.300	0.09	23.11	23.70	1.146	0.344	22.3
				Body worn	Test data(Se	eparate 15mm)				
Back side	RMC	9400/1880	1:1	0.306	0.05	23.11	23.70	1.146	0.351	22.3
				Hotspot Te	est data(Sep	arate 10mm)				
Back side	RMC	9400/1880	1:1	0.462	0.02	23.11	23.70	1.146	0.529	22.3

Table 18: SAR of WCDMA Band II(variant). Note:

- 1)The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is \leq 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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8.3.4 SAR Result of WCDMA Band IV

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1- g	Power Drift(dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp
					Head Test d	ata				
Left cheek	RMC	1412/1732.4	1:1	0.365	0.07	23.58	23.70	1.028	0.375	22.2
				Body worn	Test data(Se	eparate 15mm)				
Front side	RMC	1412/1732.4	1:1	0.512	0.02	23.58	23.70	1.028	0.526	22.2
				Hotspot To	est data(Sep	arate 10mm)				
Back side	RMC	1412/1732.4	1:1	0.630	0.07	23.58	23.70	1.028	0.648	22.2

Table 19: SAR of WCDMA Band IV(variant). Note:

- 1)The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is \leq 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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8.3.5 SAR Result of WCDMA Band V

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1- g	Power Drift(dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp
					Head Test d	ata				
Right cheek	RMC	4182/836.4	1:1	0.446	0.04	23.25	23.70	1.109	0.495	22.1
				Body worn	Test data(Se	parate 15mm)				
Back side	RMC	4182/836.4	1:1	0.457	0.02	23.25	23.70	1.109	0.507	22.1
			•	Hotspot To	est data(Sep	arate 10mm)		•	•	
Back side	RMC	4182/836.4	1:1	0.589	0.12	23.25	23.70	1.109	0.653	22.1

Table 20: SAR of WCDMA Band V(variant). Note:

- 1)The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is \leq 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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8.3.6 SAR Result of LTE Band 2

Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1- g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
				Hea	ad Test da	ta(1RB)					
Left cheek	20	QPSK 1RB_0	18900/1880	1:1	0.271	0.03	23.47	23.50	1.007	0.273	22.3
			Вос	dy worn Te	st data(Se	parate 15i	mm 1RB)				
Back side	20	QPSK 1RB_0	18900/1880	1:1	0.310	0.14	23.47	23.5	1.007	0.312	22.3
	Hotspot Test data(Separate 10mm 1RB)										
Back side	20	QPSK 1RB_0	18900/1880	1:1	0.599	-0.06	23.47	23.50	1.007	0.603	22.3

Table 21: SAR of LTE Band 2(variant). Note:

- 1)The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is \leq 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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8.3.7 SAR Result of LTE Band 4

Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1- g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
				Head	Test data	(1RB)					
Left cheek	20	QPSK 1RB_0	20175/1732.5	1:1	0.358	0.02	23.05	24.50	1.396	0.500	22.2
			Body w	orn Test	data(Sepa	rate 15mi	m 1RB)				
Back side	20	QPSK 1RB_0	20175/1732.5	1:1	0.492	0.05	23.05	24.50	1.396	0.687	22.2
			Hotsp	ot Test da	ıta(Separa	ate 10mm	1RB)				
Back side	20	QPSK 1RB_0	20175/1732.5	1:1	0.874	0.07	23.05	24.50	1.396	1.220	22.2
Back side	20	QPSK 1RB_0	20050/1720	1:1	0.680	-0.01	22.79	24.50	1.483	1.008	22.2
Back side	20	QPSK 1RB_0	20300/1745	1:1	0.943	0.03	22.74	24.50	1.500	1.414	22.2
Back side-repeated	20	QPSK 1RB_0	20300/1745	1:1	0.937	0.01	22.74	24.50	1.500	1.405	22.2

Table 22: SAR of LTE Band 4(variant).

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(19)	SAR (1g)		SAR (1g)	SAR (1g)
Back side	20300/1745	0.943	0.937	1.006403415	N/A	N/A

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

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is \leq 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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

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



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8.3.8 SAR Result of LTE Band 5

Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1- g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
				Hea	ad Test da	ta(1RB)					
Left cheek	10	QPSK 1RB_0	20450/829	1:1	0.422	0.07	24.06	24.50	1.107	0.467	22.1
			Во	dy worn Te	st data(Se	parate 15	mm 1RB)				
Back side	10	QPSK 1RB_0	20450/829	1:1	0.483	0.02	24.06	24.50	1.107	0.534	22.1
			Н	otspot Test	data(Sepa	arate 10m	m 1RB)				
Back side	10	QPSK 1RB_0	20450/829	1:1	0.548	0.03	24.06	24.50	1.107	0.606	22.1

Table 23: SAR of LTE Band 5(variant). Note:

- 1)The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is \leq 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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8.3.9 SAR Result of LTE Band 12

Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1- g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
				Hea	id Test da	ta(1RB)					
Left cheek	10	QPSK 1RB_0	23095/707.5	1:1	0.141	0.03	23.18	24.50	1.355	0.191	22.1
			Bod	ly worn Te	st data(Se	parate 15r	mm 1RB)				
Back side	10	QPSK 1RB_0	23095/707.5	1:1	0.308	0.06	23.18	24.50	1.355	0.417	22.1
			Ho	tspot Test	data(Sepa	arate 10mi	m 1RB)				
Back side	10	QPSK 1RB_0	23095/707.5	1:1	0.350	-0.02	23.18	24.50	1.355	0.474	22.1

Table 24: SAR of LTE Band 12(variant).

1)The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is \leq 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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8.3.10 SAR Result of LTE Band 41

Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1- g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
				F	lead Test	data					
Left cheek	20	QPSK 1RB_0	40620/2593	1:1.58	0.424	-0.02	24.55	24.70	1.035	0.439	22.1
			В	ody worn T	est data(S	Separate 1	5mm)				
Back side	20	QPSK 1RB_0	40620/2593	1:1.58	0.390	-0.14	24.55	24.70	1.035	0.404	22.1
			ŀ	Hotspot Te	st data(Se	parate 10	mm)				
Back side	20	QPSK 1RB_0	40185/2549.5	1:1.58	0.463	-0.08	23.99	24.70	1.178	0.545	22.1

Table 25: SAR of LTE Band 41(variant).

Note:

- 1)The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is \leq 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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8.3.11 SAR Result of LTE Band 66

Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1- g	Power Drift(dB)	Conducted power(dBm)		Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
				Head	Test data	(1RB)					
Left cheek	20	QPSK 1RB_0	132322/1745	1:1	0.482	0.14	23.21	24.50	1.346	0.649	22.1
			Body w	orn Test	data(Sepa	arate 15mi	m 1RB)				
Back side	20	QPSK 1RB_0	132322/1745	1:1	0.453	0.07	23.21	24.50	1.346	0.610	22.1
			Hotsp	ot Test da	ıta(Separa	ate 10mm	1RB)				
Back side	20	QPSK 1RB_0	132322/1745	1:1	0.750	0.16	23.21	24.50	1.346	1.009	22.1
Back side	20	QPSK 1RB_0	132072/1720	1:1	0.751	-0.02	22.91	24.50	1.442	1.083	22.1
Back side	20	QPSK 1RB_0	132572/1770	1:1	0.818	-0.14	22.89	24.50	1.449	1.185	22.1
Back side- repeated	20	QPSK 1RB_0	132572/1770	1:1	0.806	0.02	22.89	24.50	1.449	1.168	22.1

Table 26: SAR of LTE Band 66(variant).

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(-9)	SAR (1g)		SAR (1g)	SAR (1g)
Back side	132572/1770	0.818	0.806	1.014888337	N/A	N/A

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

Note:

1)The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is \leq 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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

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



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8.3.12 SAR Result of LTE Band 71

Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1- g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.		
	Head Test data(1RB)												
Left cheek	20	QPSK 1RB_0	133322/683	1:1	0.036	0.12	23.18	24.50	1.355	0.049	22.1		
	Body worn Test data(Separate 15mm 1RB)												
Back side	20	QPSK 1RB_0	133322/683	1:1	0.284	-0.02	23.18	24.50	1.355	0.385	22.1		
Hotspot Test data(Separate 10mm 1RB)													
Back side	20	QPSK 1RB_0	133322/683	1:1	0.348	0.11	23.18	24.50	1.355	0.472	22.1		

Table 27: SAR of LTE Band 71(variant).

Note

- 1)The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is \leq 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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8.3.13 SAR Result of WIFI 2.4G

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1- g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.	
	Head Test data											
Left cheek	802.11b	6/2437	97.92%	1.021	0.396	0.13	16.58	17.00	1.102	0.445	22.1	
	Body worn Test data(Separate 15mm)											
Back side	802.11b	6/2437	97.92%	1.021	0.064	-0.01	16.58	17.00	1.102	0.072	22.1	
Hotspot Test data (Separate 10mm)												
Back side	802.11b	6/2437	97.92%	1.021	0.140	0.12	16.58	17.00	1.102	0.157	22.1	

Table 28: SAR of WIFI 2.4G(variant).

Note:

- 1)The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is \leq 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3)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 W/kg, SAR test for the other 802.11 modes are not required.



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8.4 Multiple Transmitter Evaluation

8.4.1 Simultaneous SAR SAR test evaluation

• Simultaneous Transmission Possibilities

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

Note:

1) The device does not support DTM function.

2) The simultaneous SAR is Select the worst SAR of the original report(report No:ZR/2021/4002803) and this report.



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8.4.2 Simultaneous Transmission SAR Summation Scenario

Test position						Main Antenr	na SARma	x (W/kg)						WiFi Antenna SARmax (W/kg)		Summed 1g
		GSM850	GSM1900	WCDMA Band II	WCDMA Band IV	WCDMA Band V	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 12	LTE Band 41	LTE Band 66	LTE Band 71	WLAN 2.4G	ВТ	SARmax (W/kg)
	Left cheek	0.115	0.121	0.344	0.375	0.072	0.273	0.500	0.467	0.191	0.439	0.649	0.057	0.460	0.084	1.109
Head	Left tilted	0.066	0.026	0.040	0.031	0.042	0.054	0.057	0.058	0.046	0.090	0.046	0.034	0.329	0.084	0.419
пеац	Right cheek	0.107	0.039	0.096	0.050	0.495	0.118	0.115	0.073	0.046	0.125	0.122	0.042	0.215	0.084	0.710
	Right tilted	0.063	0.026	0.050	0.054	0.058	0.068	0.036	0.058	0.039	0.144	0.054	0.023	0.152	0.084	0.296
	Front side	0.128	0.093	0.107	0.107	0.099	0.100	0.141	0.100	0.045	0.190	0.120	0.039	0.048	0.028	0.238
Body worn	Back side	0.279	0.055	0.351	0.351	0.507	0.312	0.687	0.534	0.417	0.404	0.610	0.385	0.076	0.028	0.763
	Front side	0.115	0.092	0.191	0.191	0.096	0.186	0.190	0.095	0.046	0.312	0.272	0.052	0.093	0.042	0.405
	Back side	0.378	0.195	0.529	0.529	0.653	0.603	1.414	0.606	0.474	0.716	1.185	0.472	0.166	0.042	1.580
	Left side	0.114	0.082	0.136	0.136	0.080	0.166	0.228	0.078	0.070	0.281	0.236	0.070	1	/	0.281
Hotspot	Right side	0.156	0.036	0.060	0.060	0.080	0.106	0.049	0.082	0.094	0.149	0.069	0.081	0.076	0.042	0.232
	Top side	1	1	1	1	1	1	/	1	1	1	1	/	0.096	0.042	0.096
	Bottom side	0.049	0.061	0.269	0.269	0.038	0.154	0.165	0.029	0.015	0.374	0.176	0.012	1	1	0.374



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Equipment list 9

Hardware Reference					
Software Reference	DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)				
Description	SAR Test System (Frequency range 300MHz-6GHz)				
Test Platform	SPEAG DASY5 Professional				

	Hardware Reference											
	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration						
\boxtimes	Twin Phantom	SPEAG	SAM5	1481	NCR	NCR						
\boxtimes	DAE	SPEAG	DAE4	1324	2022-10-17	2023-10-16						
\boxtimes	E-Field Probe	SPEAG	EX3DV4	3793	2022-09-30	2023-09-29						
\boxtimes	Validation Kits	SPEAG	D750V3	1210	2021-09-08	2024-09-07						
\boxtimes	Validation Kits	SPEAG	D835V2	4d256	2020-04-15	2023-04-14						
\boxtimes	Validation Kits	SPEAG	D1750V2	1105	2020-08-29	2023-08-28						
\boxtimes	Validation Kits	SPEAG	D1900V2	5d114	2020-08-27	2023-08-26						
\boxtimes	Validation Kits	SPEAG	D2450V2	1038	2020-04-08	2023-04-07						
\boxtimes	Validation Kits	SPEAG	D2600V2	1180	2021-05-12	2024-05-11						
\boxtimes	Dielectric parameter probes	SPEAG	DAKS-3.5	1120	2022-05-30	2023-05-29						
\boxtimes	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	0050920	2022-05-23	2023-05-22						
\boxtimes	Universal Radio Communication Tester	R&S	CMW500	111637	2022-09-26	2023-09-26						
\boxtimes	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR						
\boxtimes	Signal Generator	R&S	SMB100A	182393	2023-02-06	2024-02-05						
\boxtimes	Preamplifier	Qiji	YX28980933	202104001	NCR	NCR						
\boxtimes	Power Sensor	Keysight	U2002H	MY5639004	2022-9-16	2023-09-15						
\boxtimes	Power Sensor	Keysight	U2002H	MY48200110	2022-12-23	2023-12-22						
\boxtimes	Attenuator	SHX	TS2-3dB	30704	NCR	NCR						
	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR						
\boxtimes	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR						
\boxtimes	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR						
\boxtimes	Humidity and Temperature Indicator	MingGao	MingGao	NA	2022-09-19	2023-09-18						

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

Calibration certificate 10



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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



