

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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SAR TEST REPORT

Application No.: SUCR2508000787WM
Applicant: Xiaomi Communications Co., Ltd.
Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer: Xiaomi Communications Co., Ltd.
Address of Manufacturer: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
EUT Description: Mobile Phone
Model No.: 25100RA69G
Trade Mark: REDMI
FCC ID: 2AFZZRA69G
Standards: FCC 47CFR §2.1093
Date of Receipt: 2025-08-07
Date of Test: 2025-08-13 to 2025-08-20
Date of Issue: 2025-08-29

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

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Revision Record			
Version	Description	Date	Remark
01	Original	2025-08-29	/

Authorized for issue by:		
Prepared By		<i>Leon Liu</i>
		_____ Leon Liu/ Project Manager
Approved By		<i>Nick Hu</i>
		_____ Nick Hu/ Technical Manager



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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)			
	Head	Body-worn	Hotspot	Product specific 10g SAR
GSM850	0.62	0.22	0.49	/
GSM1900	1.07	0.31	0.98	/
WCDMA Band II	1.09	0.80	0.87	2.30
WCDMA Band IV	1.03	0.65	0.70	2.49
WCDMA Band V	0.86	0.26	0.62	/
LTE Band 2	1.04	0.85	0.86	2.21
LTE Band 7	1.05	0.56	0.62	/
LTE Band 12(17)	0.55	0.21	0.57	/
LTE Band 13	0.96	0.26	0.43	/
LTE Band 26(5)	0.79	0.24	0.59	/
LTE Band 38	0.86	0.31	0.55	/
LTE Band 41	0.79	0.31	0.54	/
LTE Band 66(4)	0.94	0.64	0.61	2.48
WI-FI (2.4GHz)	0.62	0.23	0.50	/
WI-FI (5GHz)	0.32	0.32	0.26	1.26
BT	0.28	0.04	0.14	/
SAR Limited(W/kg)	1.6			4.0
Maximum Simultaneous Transmission SAR (W/kg)				
Scenario	Head	Body-worn	Hotspot	Product specific 10g SAR
Sum SAR	1.57	1.21	1.10	3.76
SPLSR	/	/	/	/
SPLSR Limited	0.04			0.1

Note:

1) The Simultaneous transmission SAR is the same test position of the WWAN Antenna + WiFi/BT Antenna.

2) According to TCB workshop October, 2014 RF Exposure Procedures Update (Overlapping Bands): SAR for LTE Band 4 (Frequency range:1710 - 1755 MHz) / LTE Band 5 (Frequency range: 824 - 849 MHz) /LTE Band 17 (Frequency range:704-716 MHz) is respectively covered by LTE Band 66 (Frequency range:1710 - 1780 MHz) / LTE Band 26 (Frequency range: 814 - 849 MHz) / LTE Band 12 (Frequency range:699-716 MHz) due to similar frequency range, same maximum tune up limit and same channel bandwidth.

Because the frequency range is similar, the maximum tuning limit is the same, and the channel bandwidth and other operating parameters for the smaller band is fully supported by the larger band.

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1 General Information

1.1 General Description of EUT

Product Name:	Mobile Phone		
Model No.:	25100RA69G		
Trade Mark:	REDMI		
Product Phase:	Identical Prototype		
Device Type:	portable device		
Exposure Category:	uncontrolled environment / general population		
IMEI:	Sample 1: 865750080069689/865750080069697 Sample 2: 865750080106481 Sample 3: 865750080103389		
Hardware Version:	1351000P6		
Software Version:	Xiaomi HyperOS 2.0		
Antenna Type:	PIFA Antenna		
Device Operating Configurations:			
Modulation Mode:	GSM :GMSK,8PSK; WCDMA :QPSK,16QAM LTE :QPSK,16QAM,64QAM,256QAM WIFI :DSSS,OFDM; BT :GFSK, π/4DQPSK,8DPSK		
Device Class:	B		
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12
HSDPA UE Category:	24	HSUPA UE Category:	7
DC-HSDPA UE Category:	24		
Power Class:	4, tested with power level 5(GSM850)		
	1, tested with power level 0(GSM1900)		
	3, tested with power control "all 1"(WCDMA Band)		
	3, tested with power control "max power"(LTE Band)		
Frequency Bands:	Band	Tx(MHz)	
	GSM850	824~849	
	GSM1900	1850~1910	
	WCDMA Band II	1850~1910	
	WCDMA Band IV	1710~1755	
	WCDMA Band V	824~849	
	LTE Band 2	1850 ~1910	
	LTE Band 4	1710~1755	
	LTE Band 5	824~849	
	LTE Band 7	2500~2570	
	LTE Band 12	699~716	
	LTE Band 13	777~787	
	LTE Band 17	704-716	
	LTE Band 26	814~849	
	LTE Band 38	2570~2620	
	LTE Band 41	2496~2690	
	LTE Band 66	1710~1780	
WIFI 2.4G	2412~2462		
WIFI 5G	5150~5250		

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		5250~5350
		5470~5725
		5725~5850
	BT	2402~2480
	NFC	13.56
RF Cable:	<input checked="" type="checkbox"/> Provided by applicant <input type="checkbox"/> Provided by the laboratory	
# 1 Battery Information:	Trade Mark:	MI
	Model:	BN6E
	Normal Voltage:	3.87V
	Rated capacity:	6350mAh
	Manufacturer:	Chongqing CosMX
# 2 Battery Information:	Trade Mark:	MI
	Model:	BN6E
	Normal Voltage:	3.87V
	Rated capacity:	6350mAh
	Manufacturer:	Sunwoda
# 3 Battery Information:	Trade Mark:	MI
	Model:	BN6E
	Normal Voltage:	3.87V
	Rated capacity:	6350mAh
	Manufacturer:	NVT

Note:

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

Note: For additional batteries, perform additional testing on the SAR worst case in each frequency band and exposure condition.

Panel No.	Manufacturer:
1	Visionox
2	TIANMA

Note: For the Panel module, it belongs to non-transmitter related components. The introduction of different manufacturers did not significantly affect the RF parameter machine, electrical performance, and current distribution. For SAR evaluation, LAB chose the first manufacturer as the main test configuration.



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1.2 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D05A	LTE Rel.10 KDB Inquiry Sheet v01r02
KDB 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
KDB 616217 D04	SAR for laptop and tablets v01r02



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1.3 RF exposure limits

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

Notes:

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

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

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

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

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



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1.4 Test Location

All tests were performed at:

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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu)
Pilot Free Trade Zone

No tests were sub-contracted.

1.5 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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2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

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3 SAR Measurements System Configuraion

3.1 The SAR Measurement System

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

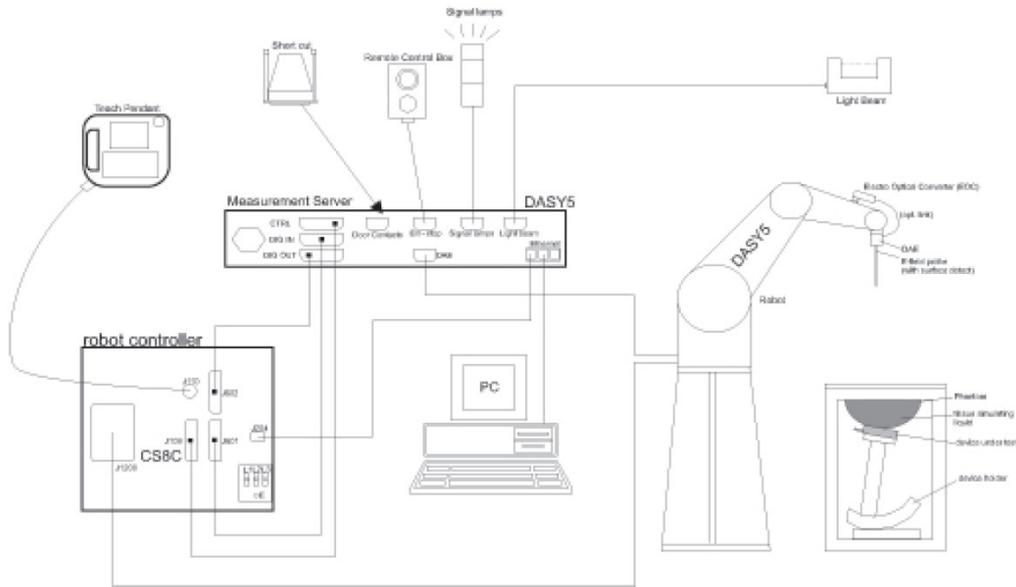
The DASY system for performing compliance tests consists of the following items:

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

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

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

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



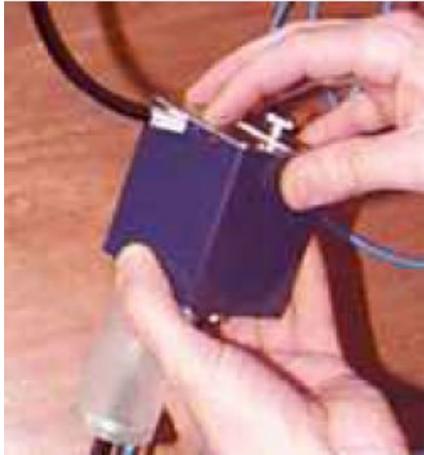
F-1. SAR Measurement System Configuration

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

3.2 Isotropic E-field Probe EX3DV4

	<p>Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)</p>
<p>Calibration</p>	<p>ISO/IEC 17025 calibration service available.</p>
<p>Frequency</p>	<p>10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)</p>
<p>Directivity</p>	<p>± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)</p>
<p>Dynamic Range</p>	<p>10 μW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μW/g)</p>
<p>Dimensions</p>	<p>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</p>
<p>Application</p>	<p>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%.</p>
<p>Compatibility</p>	<p>DASY52 SAR and higher, EASY4/MRI</p>

3.3 Data Acquisition Electronics (DAE)

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

3.4 SAM Twin Phantom

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

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

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

3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)	
Shell Thickness	2.0 ± 0.2 mm(bottom plate)	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	
Filling Volume	pprox.. 30 liters	
Wooden Support	SPEAG standard phantom table	
<p>Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEEE 1528 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.</p> <p>ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4 but has reinforced top structure.</p>		

3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

- The DAS Y 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 DAS Y device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon=3$ and loss tangent $\delta=0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.

3.7 Measurement Procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

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

Step 2: Area scan

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

Step 3: Zoom scan

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

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

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

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

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

3.7.3 Data Evaluation by SEMCAD

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

Probe parameters:	- Sensitivity	Normi, ai0, ai1, ai2
- Conversion factor	ConvFi	
- Diode compression point	Dcpi	
Device parameters:	- Frequency	f
- Crest factor	cf	
Media parameters:	- Conductivity	ε
- Density	ρ	

These parameters must be set correctly in the software. They can be found in the component documents, or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

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

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

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

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

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

cf = crest factor of exciting field (DASY parameter)

dcp I = diode compression point (DASY parameter)

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

E-field probes:

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

H-field probes:

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

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

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

[mV/(V/m)²] for E-field Probes

ConvF = sensitivity enhancement in solution

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

f = carrier frequency [GHz]

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

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

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

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

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

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

with SAR = local specific absorption rate in mW/g

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

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

ϵ = equivalent tissue density in g/cm³

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

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

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

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

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

4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

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

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

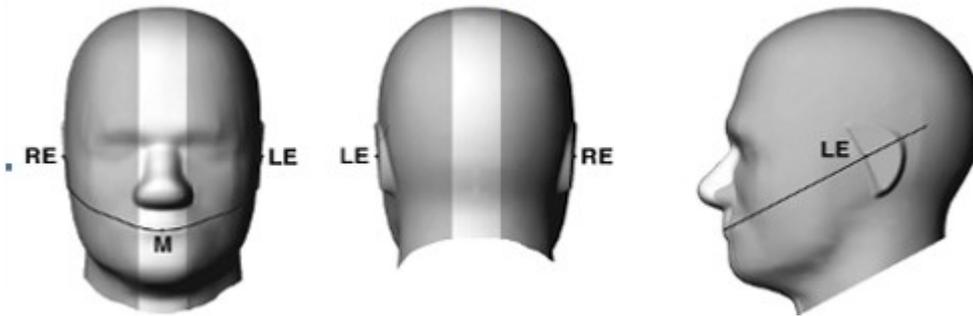
4.2 SAR measurement uncertainty

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

5 Description of Test Position

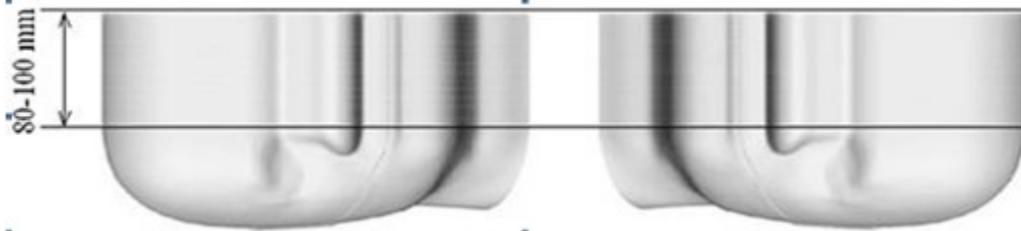
5.1 The Head Test Position

5.1.1 SAM Phantom Shape

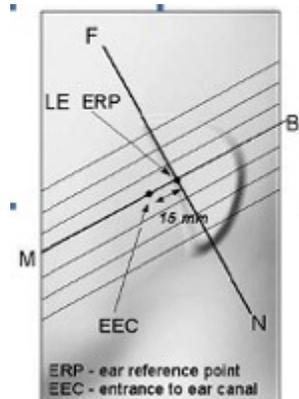


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

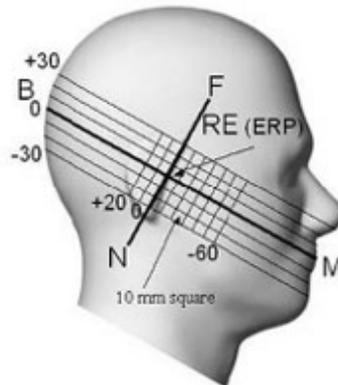
Note: The centre strip including the nose region has a different thickness tolerance.



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

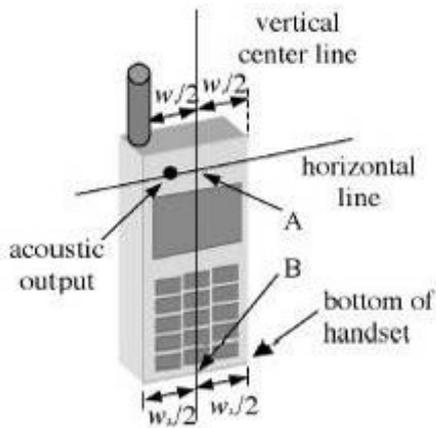


F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

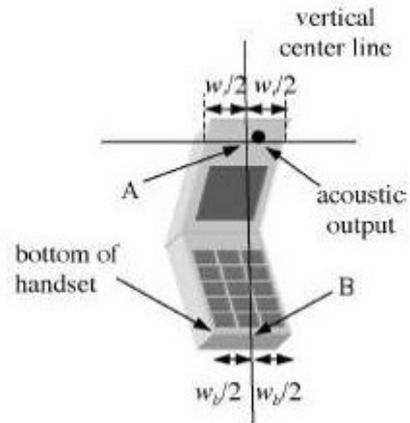


F-6.Side view of the phantom showing relevant markings and seven cross-sectional plane locations

5.1.2 EUT constructions



F-7. Handset vertical and horizontal reference lines-
 "fixed case"



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

5.1.3 Definition of the “check” position

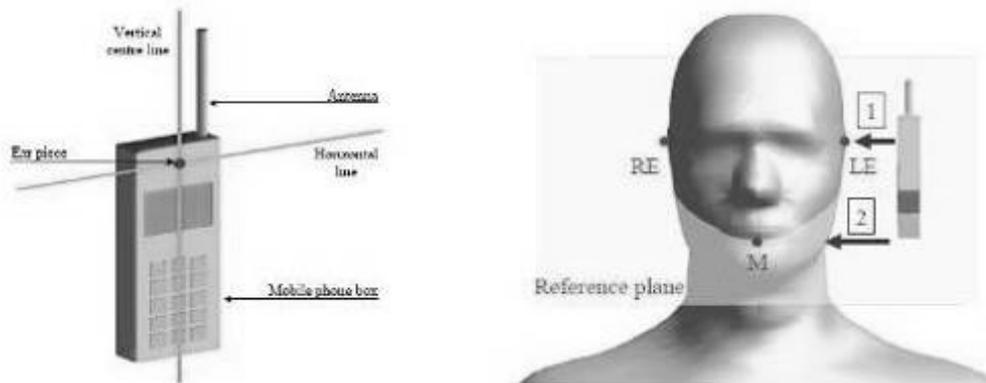
a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom (“initial position”). While maintaining the device in this plane, align the vertical centre line with the 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.

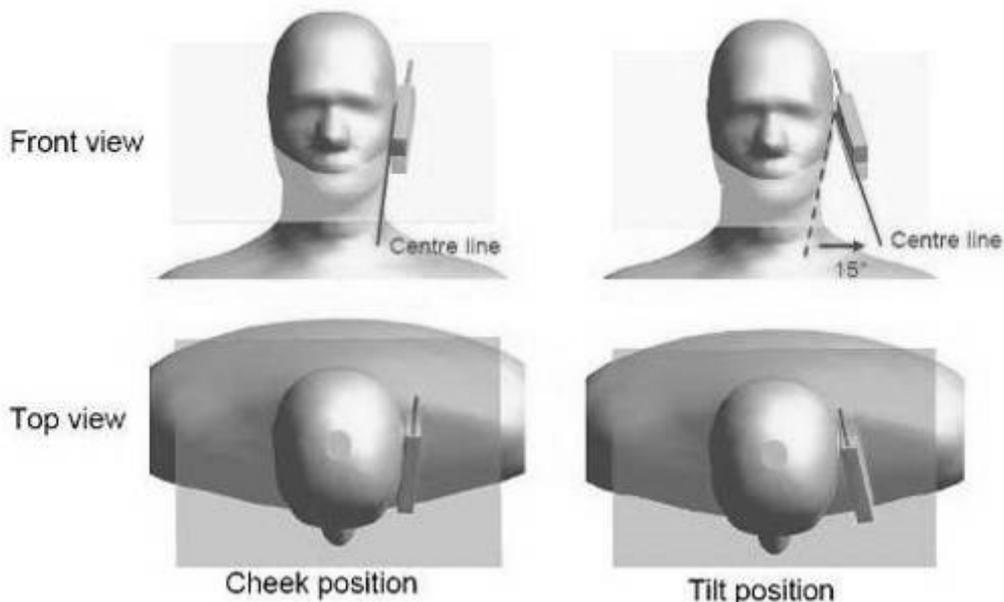
5.1.4 Definition of the “tilted” position

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





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

5.2 The Body Test Position

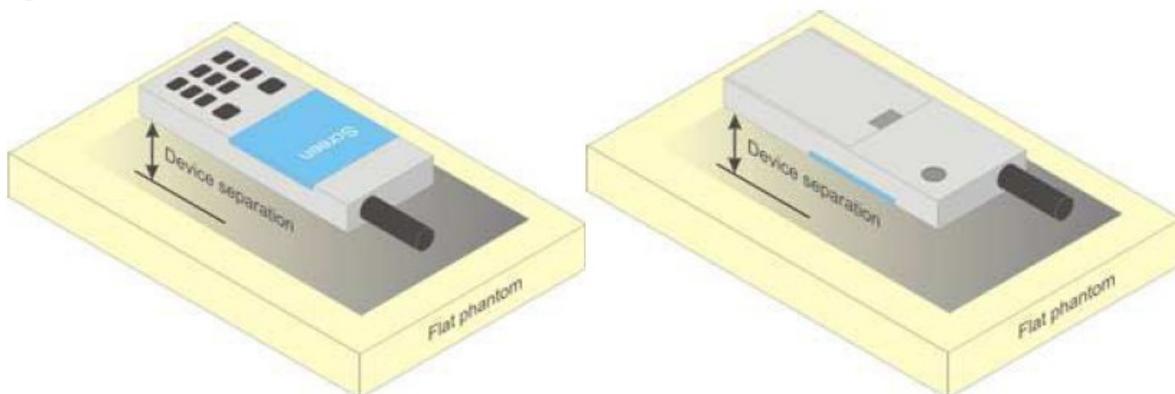
5.2.1 Body-worn exposure conditions

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 $> 1.2 \text{ W/kg}$, 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 ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) 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 $9 \text{ cm} \times 5 \text{ cm}$, a test separation distance of 5 mm is required.

5.3 Extremity exposure conditions

Per FCC KDB 648474 D04, for smart phones with a display diagonal dimension $> 15.0 \text{ cm}$ or an overall diagonal dimension $> 16.0 \text{ cm}$ 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".

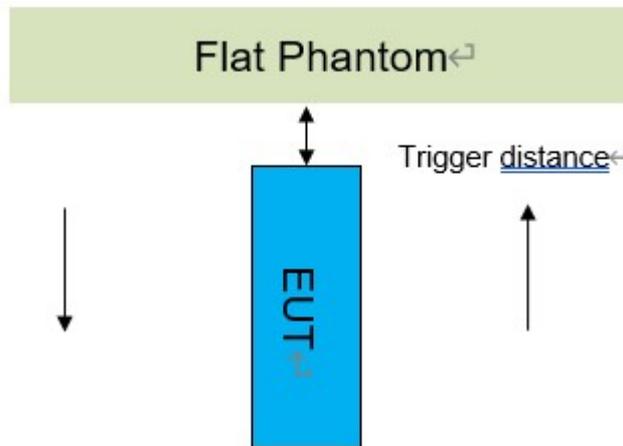
The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at $\leq 25 \text{ mm}$ from that surface or edge, in direct contact with a flat phantom, for Product Specific 10-g SAR according to the body-equivalent tissue dielectric parameters 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 $> 1.2 \text{ W/kg}$; 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, WCDMA Band II/IV, LTE Band 2/66 and WLAN 5G frequency bands need to test with 0mm for the Product Specific 10-g SAR, the others are not required.

5.4 Proximity Sensor Triggering Test

5.4.1 Proximity sensor triggering distances

The Proximity sensor triggering was applied to the below table list antenna. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed.

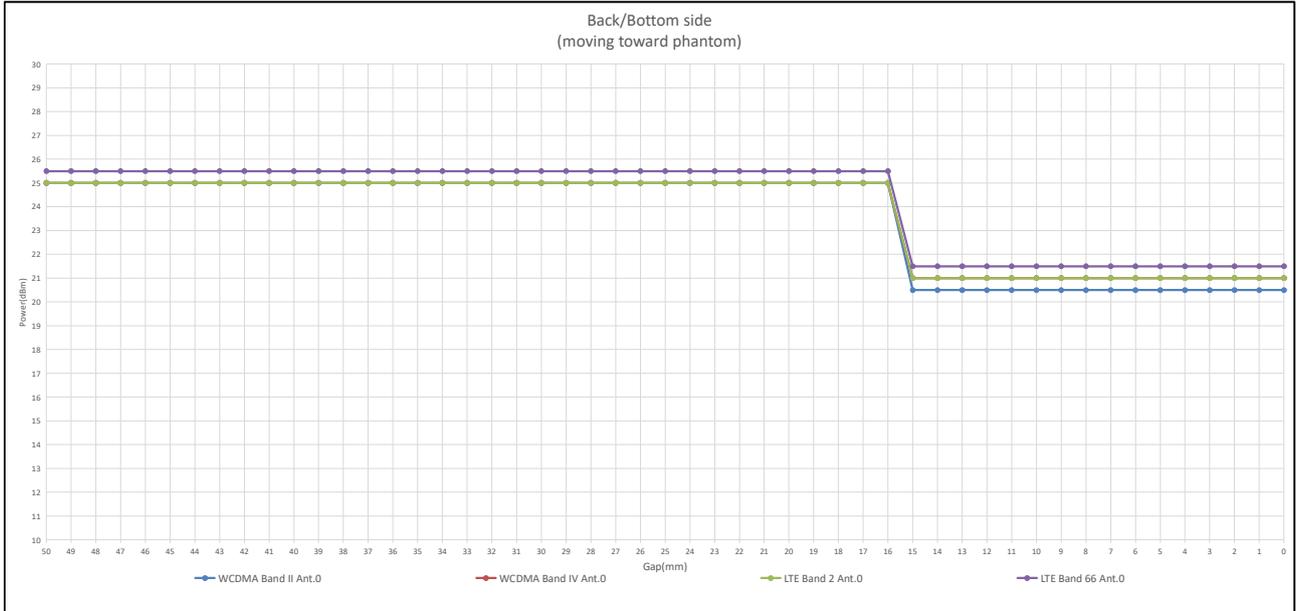


Proximity Sensor Triggering Distance(mm)				
Ant.0				
Position	Back side	Front side	Left side	Bottom side
Minimum	16	16	16	16
An.1				
Position	Back side	Front side	Left side	NA
Minimum	16	16	16	NA
Ant.2				
Position	Back side	Front side	Top side	NA
Minimum	16	10	16	NA

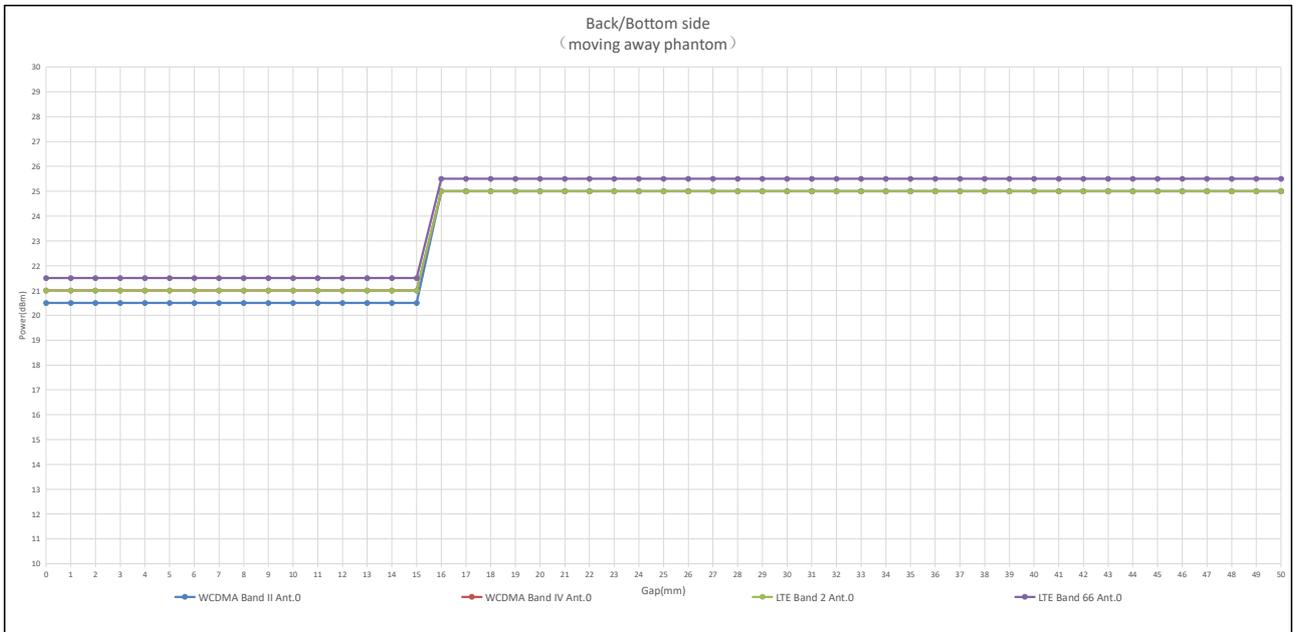
Note:

SAR tests with proximity sensor power reduction are only required for the sides of frequency bands in the table above. For the other sides or other frequency bands of the device, SAR is still tested at the maximum power level with sensor off.

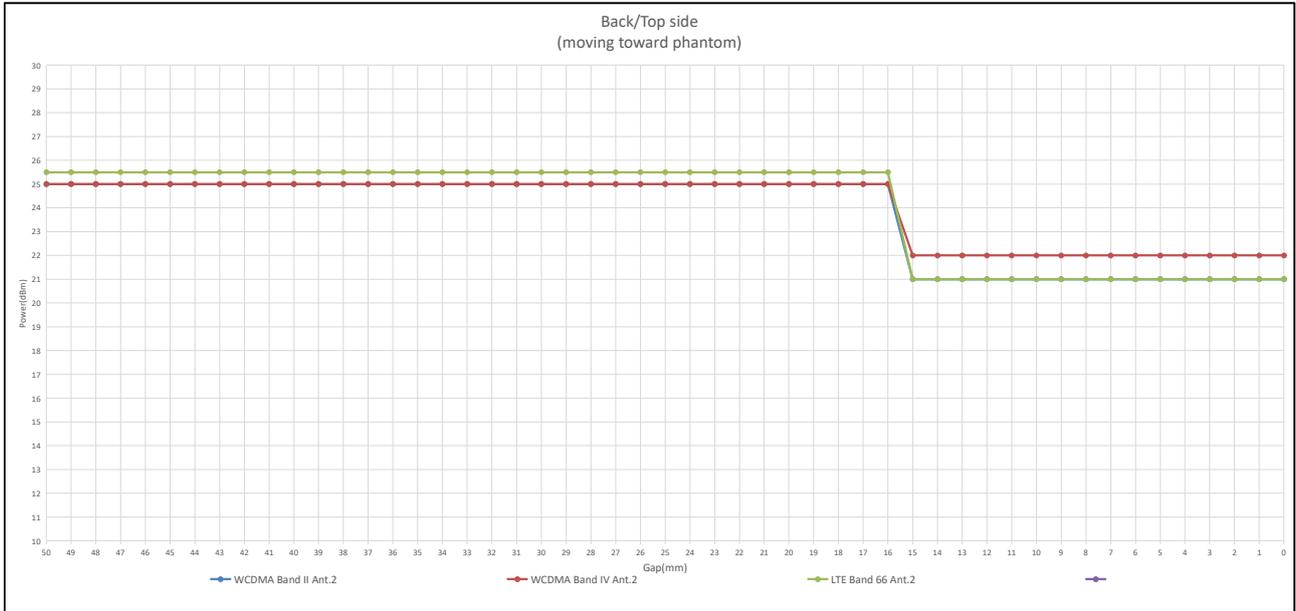
● Ant 0 DUT Moving Toward(Trigger)the Phantom



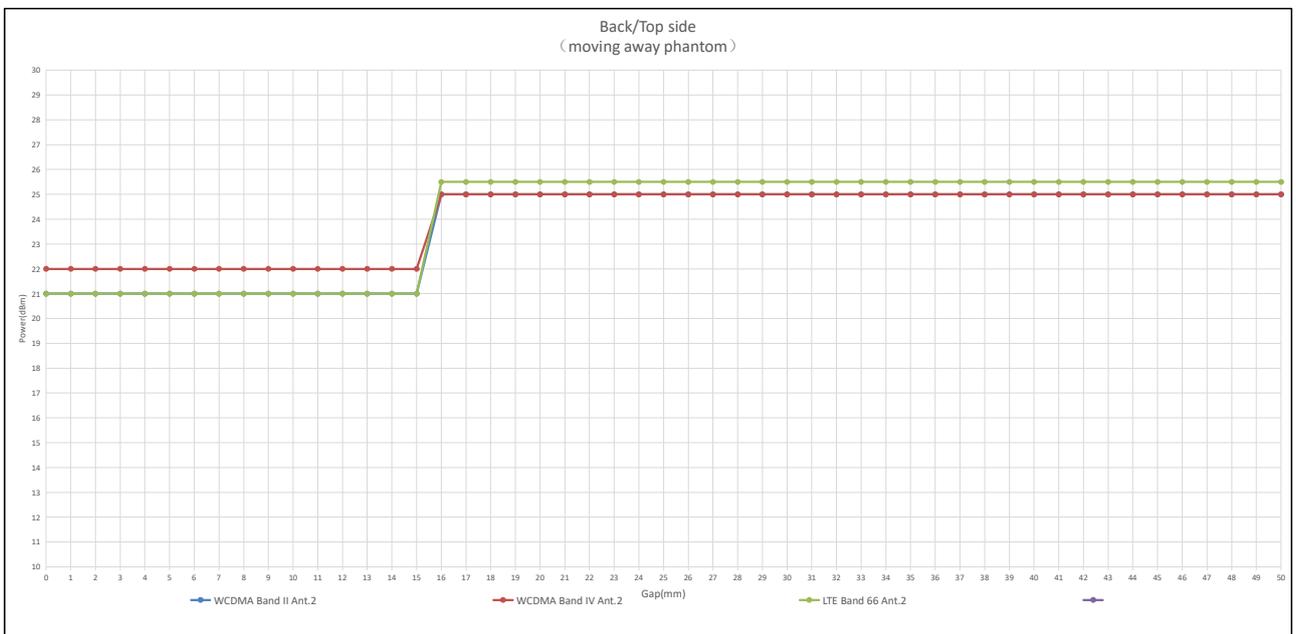
● Ant 0 DUT Moving Away(Release) from the Phantom



● Ant 2 DUT Moving Toward(Trigger)the Phantom



● Ant 2 DUT Moving Away(Release) from the Phantom



6 SAR System Verificaion Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients (% by weight)	Frequency (MHz)				
	450	700-1000	1700-2000	2300-2500	2500-2700
Water	38.56	40.30	55.24	55.00	54.92
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23
Sucrose	56.32	57.90	0	0	0
HEC	0.98	0.24	0	0	0
Bactericide	0.19	0.18	0	0	0
Tween	0	0	44.45	44.80	44.85
Salt: 99+% Pure Sodium Chloride Water: De-ionized, 16 MΩ+ resistivity Tween: Polyoxyethylene (20) sorbitan monolaurate			Sucrose: 98+% Pure Sucrose HEC: Hydroxyethyl Cellulose		
Head Tissue Simulate Liquid (HBBL600-10000V6) is composed of the following ingredients: (Manufactured by SPEAG) Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%					

Table 1 : Recipe of Tissue Simulate Liquid

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6.1.2 Measurement for Tissue Simulate Liquid

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

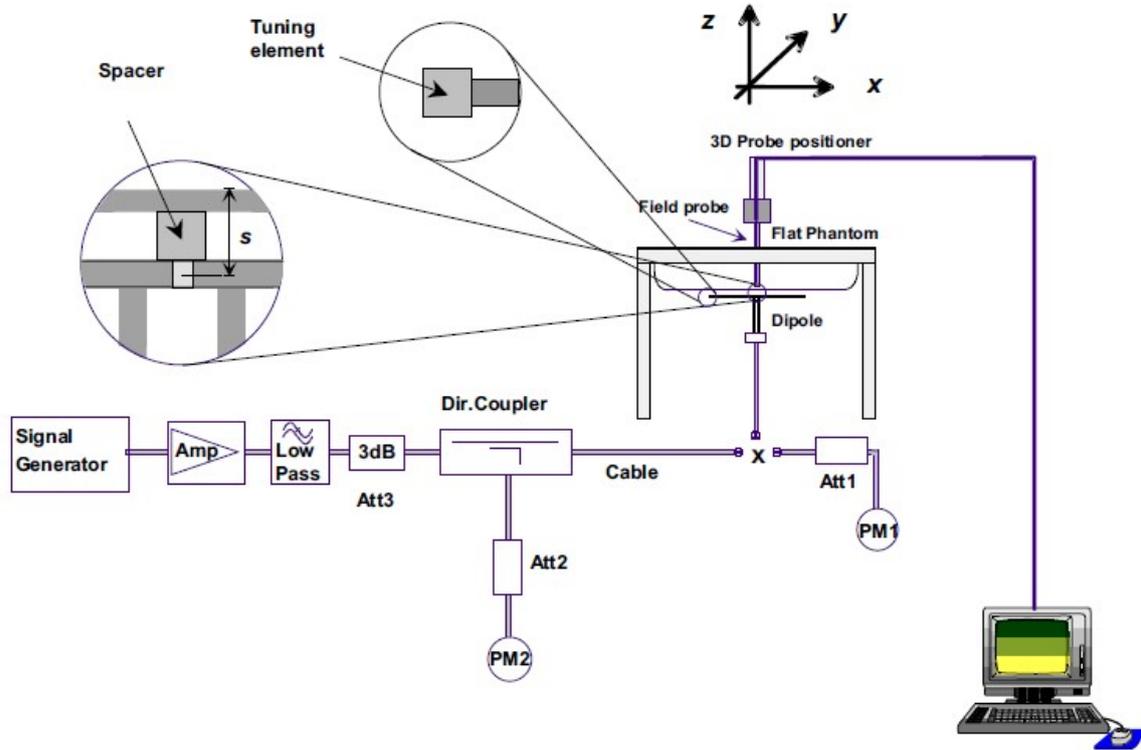
The temperature variation of the Tissue Simulate Liquids was $22 \pm 2^\circ\text{C}$.

Tissue Type	Measured Frequency (MHz)	Measured Tissue		Target Tissue ($\pm 5\%$)		Deviation (Within $\pm 5\%$)		Liquid Temp. ($^\circ\text{C}$)	Test Date
		ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$		
750 Head	750	42.582	0.888	41.90	0.89	1.63%	-0.22%	23.2	2025/8/13
835 Head	835	42.427	0.904	41.50	0.90	2.23%	0.44%	22.9	2025/8/14
1750 Head	1750	39.132	1.322	40.10	1.37	-2.41%	-3.50%	23.1	2025/8/15
1950 Head	1950	39.343	1.389	40.00	1.40	-1.64%	-0.79%	22.8	2025/8/16
2450 Head	2450	39.142	1.779	39.20	1.80	-0.15%	-1.17%	22.9	2025/8/18
2600 Head	2600	38.829	1.973	39.00	1.96	-0.44%	0.66%	23.0	2025/8/19
5250 Head	5250	36.874	4.679	35.90	4.71	2.71%	-0.66%	23.4	2025/8/20
5600 Head	5600	36.006	5.060	35.50	5.07	1.43%	-0.20%	23.4	2025/8/20
5750 Head	5750	35.825	5.252	35.40	5.22	1.20%	0.61%	23.4	2025/8/20

Table 2 : Measurement result of Tissue electric parameters

6.2 SAR System Check

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



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



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6.2.1 Justification for Extended SAR Dipole Calibrations

1) Instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.

- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 20% of calibrated measurement;
- d) Impedance is within 5Ω from the previous measurement.

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

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6.2.2 Summary System Check Result(s)

Validation Kit	Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within $\pm 10\%$)		Liquid Temp. ($^{\circ}\text{C}$)	Test Date
	1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg)	10- g(W/kg)		
D750V3_Head	2.11	1.41	8.44	5.64	8.54	5.80	-1.17%	-2.76%	23.2	2025/8/13
D835V2_Head	2.36	1.53	9.44	6.12	9.60	6.16	-1.67%	-0.65%	22.9	2025/8/14
D1750V2_Head	8.99	4.81	35.96	19.24	36.30	19.30	-0.94%	-0.31%	23.1	2025/8/15
D1950V3_Head	10.30	5.31	41.20	21.24	40.40	20.80	1.98%	2.12%	22.8	2025/8/16
D2450V2_Head	13.30	6.24	53.20	24.96	52.70	24.60	0.95%	1.46%	22.9	2025/8/18
D2600V2_Head	13.50	6.06	54.00	24.24	55.20	24.70	-2.17%	-1.86%	23.0	2025/8/19
Validation Kit	Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within $\pm 10\%$)		Liquid Temp. ($^{\circ}\text{C}$)	Test Date
	1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg)	10- g(W/kg)		
D5GHzV2_5.25G_Head	7.46	2.15	74.60	21.50	77.20	21.90	-3.37%	-1.83%	23.4	2025/8/20
D5GHzV2_5.6G_Head	7.81	2.24	78.10	22.40	81.10	22.80	-3.70%	-1.75%	23.4	2025/8/20
D5GHzV2_5.75G_Head	7.52	2.14	75.20	21.40	77.80	21.70	-3.34%	-1.38%	23.4	2025/8/20

Table 3 : SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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7 Test Configuration

7.1 Operation Configurations

7.1.1 GSM Test Configuration

SAR tests for GSM frequency band, a communication link is set up with a base station by air link. Using Radio Communication Analyzer, the power level is set to “5” or “0” in SAR of GSM frequency band. The tests in the GSM frequency band are performed in the mode of GPRS/EGPRS function.

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

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

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

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

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).

7.1.2 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 spreading code or DPDCHn, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the handset, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC.

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4) HSDPA / HSUPA

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

a) HSDPA

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

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

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

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

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

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

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

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

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HS-DSCH Category	Maximum HS-DSCH Codes Received	Minimum Inter-TTI Interval	Maximum HS-DSCH Transport Block Bits/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 5 : HSDPA UE category

b) HSUPA

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (1)	β_{acc}	β_{ad}	β_c (SF)	β_{ad} (code)	CM(2)	MP R (dB)	AG(4) Index	E-TFC I
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ad1}:47/15$ $\beta_{ad2}:47/15$	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	15/15 ⁽⁴⁾	30/15	24/15	134/15	4	1	1.0	0.0	21	81

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

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-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g

Note 6: β_{ad} can not be set directly; it is set by Absolute Grant Value.

Table 6 : Subtests for UMTS Release 6 HSUPA

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

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

Table 7 : HSUPA UE category

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/Ior	dB	-10
P-CCPCH and SCH_Ec/Ior	dB	-12
PICH_Ec/Ior	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/Ior	dB	-5
OCNS_Ec/Ior	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 8 : settings of required H-Set 12 QPSK acc. To 3GPP 34.121

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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.

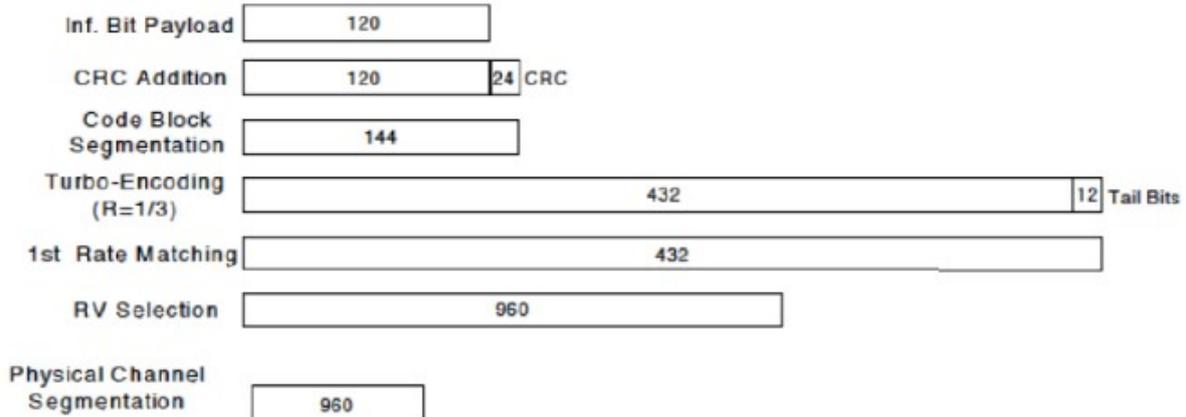


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

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

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

Note 2: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCCH 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.^o

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 $\beta_d = 15/15$ ^o

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

Note:

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+

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

Sub-test	β_{c+} (Note3)	β_{d+}	β_{HS+} (Note1)	β_{ec+}	β_{ed+} (2xSF2) (Note 4)	β_{ed+} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{rs} = 30/15 * \beta_c$.

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_c is set to 1 and $\beta_d = 0$ by default.

Note 4: β_{ed} 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.

5) 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.

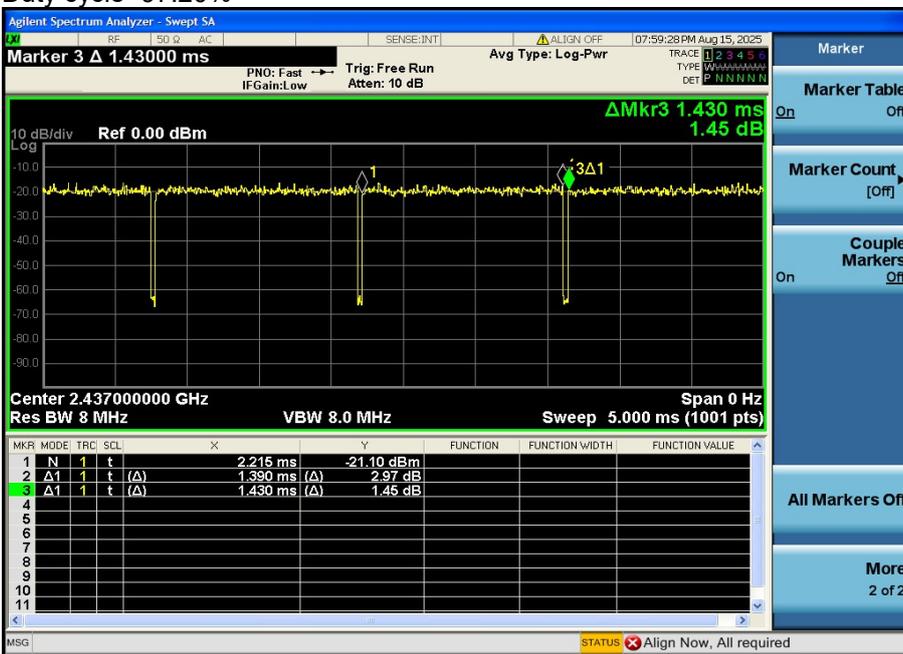
7.1.3 WIFI Test Configuration

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.

7.1.3.1 Duty cycle

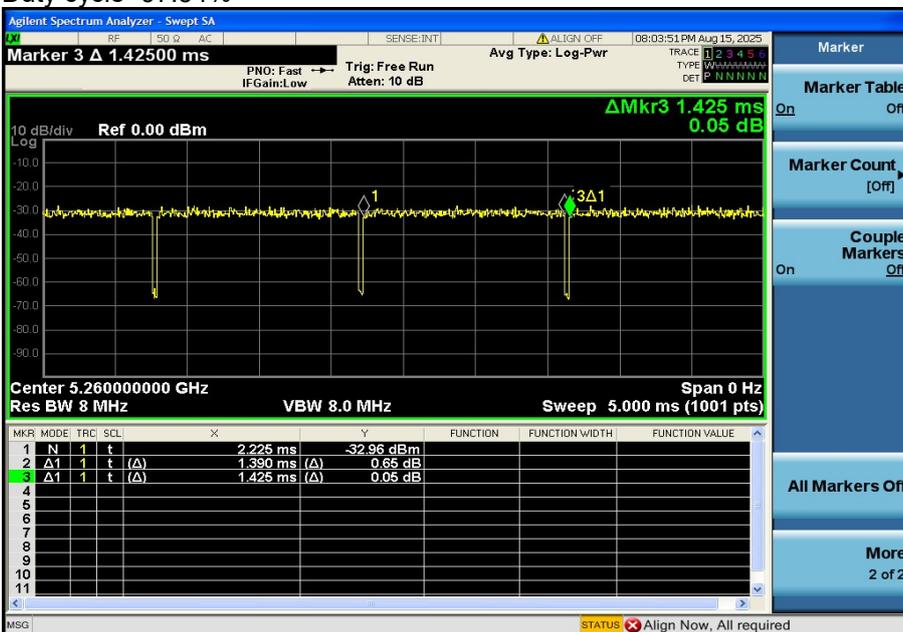
1) Wi-Fi 2.4GHz 802.11g:

Duty cycle=97.20%



2) Wi-Fi 5GHz 802.11a:

Duty cycle=97.54%





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7.1.3.2 Initial Test Position SAR Test Reduction Procedure

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

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

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7.1.3.3 Subsequent Test Configuration Procedures

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

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

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7.1.3.4 2.4 GHz WiFi SAR Procedures

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

- **802.11b DSSS SAR Test Requirements**

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

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

- **2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements**

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

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

- **SAR Test Requirements for OFDM configurations**

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

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7.1.3.5 5 GHz WiFi SAR Procedures

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

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

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

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

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

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

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OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

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

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

- **SAR Test Requirements for OFDM configurations**

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

7.1.5 LTE Test Configuration

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

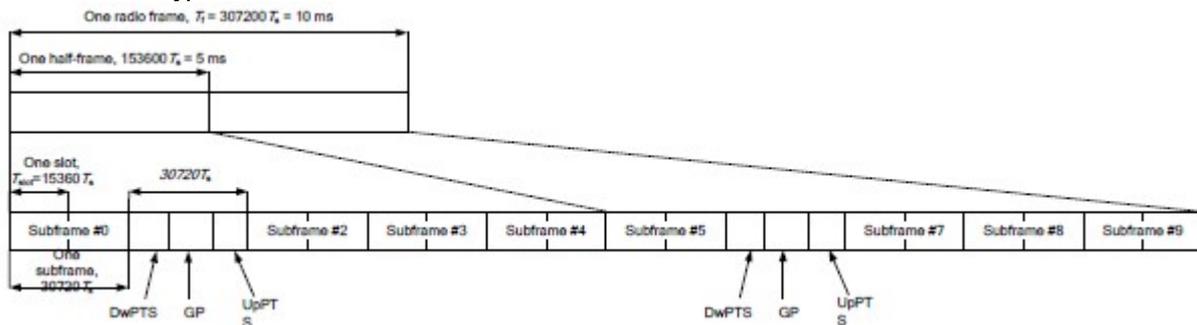
TDD LTE test consideration

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

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

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

Frame structure type



2:

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

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

Table 4.2-2: Uplink-downlink configurations.

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

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

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

A) Spectrum Plots for RB Configurations

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

B) MPR

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

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

C) A-MPR

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

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D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

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

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

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

4) Higher order modulations

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

E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

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F) LTE CA additional specification

The device supports intra-band contiguous and inter-band discontinuous uplink and downlink LTE Carrier Aggregation (CA). When carrier aggregation applies, implementation and measurement details for the following are necessary.

- a) intra-band carrier aggregation requirements for uplink.
- b) intra-band and inter-band carrier aggregation requirements for downlink.

The downlink LTE CA test is not required since the maximum output power for downlink LTE CA was not more than 0.25dB higher than the maximum output power for without downlink LTE CA.

SAR test procedure for intra-band contiguous UL LTE CA as below:

1) Maximum output power is measured for each UL CA configuration for the required test channels described in KDB 941225 D05

- UL PCC configuration is determined by the required test channel
- SCC and subsequent CCs are added alternatively to either side of the PCC or within the transmission band for channels at the ends of a frequency band.

2) SAR for UL CA is required in each exposure condition and frequency band combination

3) For this device, as the maximum output for Intra-band uplink LTE CA is \leq standalone LTE mode (without CA),

- PCC is configured according to the highest standalone SAR configuration tested.
- SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC

4) When the reported SAR for UL CA configuration, described above, is > 1.2 W/kg, UL CA SAR is also required for all required test channels (PCC based)

5) UL CA SAR is also required for standalone SAR configurations > 1.2 W/kg when they are scaled to the UL CA power level.



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8 Test Result

8.1 DUT Antenna Locations (Back View)

The DUT Antenna Locations can be referred to Appendix D

Note:

- 1) The test device is a smart phone, and the diagonal distance of this device is $\geq 160\text{mm}$ but $\leq 200\text{mm}$, so it is a Phablet per KDB 648474 D04.
- 2) The distance between the antennas and the sides of the EUT show as below table, when the antenna-to-edge distance is greater than 25mm, such position does not need to be SAR tested.

EUT Sides for SAR Testing							
Antenna	Exposure Condition	Front	Back	Left	Right	Top	Bottom
Ant0	Hotspot&Product specific 10gSAR Test data	Yes	Yes	Yes	No	No	Yes
Ant1	Hotspot&Product specific 10gSAR Test data	Yes	Yes	Yes	No	No	No
Ant2	Hotspot&Product specific 10gSAR Test data	Yes	Yes	Yes	No	Yes	No
Ant3	Hotspot&Product specific 10gSAR Test data	Yes	Yes	Yes	No	Yes	No
Ant4	Hotspot&Product specific 10gSAR Test data	Yes	Yes	No	Yes	Yes	No
Ant5	Hotspot&Product specific 10gSAR Test data	Yes	Yes	No	Yes	Yes	No

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8.2 Measurement of RF Conducted Power

8.2.1 RF Conducted Power reduction specification

This device uses a single fixed level of power reduction through static table look-up for SAR compliance and it is triggered by a single event or operation

- 1) A fixed level power reduction is applied for some frequency bands when hotspot mode becomes active. When the hotspot is disabled, the power value will be recovered.
- 2) This device uses the receiver to indicate whether the user is making a voice call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. A fixed level power reduction is applied for some frequency bands when the audio receiver is on.
- 3) The proximity sensor is used to indicate when the device is held close to a user's body exposure condition. It utilizes the proximity sensor to reduce the output power in specific wireless and operating modes of main antenna to ensure SAR compliance.

8.2.2 RF Conducted Power Data

The detailed power data can be referred to Appendix E Conducted RF Output Power.

8.3 Measurement of SAR Data

Note:

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

- 2) Per KDB 447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
- 3) The device does not support DTM function.
- 4) For WiFi 5G,U-NII-2A and U-NII-2C band does not support hotspot function.
- 5) For WiFi SAR test, as the highest reported SAR is smaller than 1.2 W/kg , and the tune-up of the other 802.11 modes are not higher than SAR measurement mode, therefore the adjusted SAR is $\leq 1.2\text{ W/kg}$ for other 802.11 modes, SAR test for the other 802.11 modes are not required. For Product specific 10gSAR the highest reported SAR is smaller than 3.0 W/kg , SAR test for the other 802.11 modes are also not required.
- 6) According to TCB workshop (Overlapping LTE Bands): SAR in LTE band 4/5/17 is respectively covered by LTE band 66/26/12. Because the frequency range is similar, the maximum tuning limit is the same, and the channel bandwidth and other operating parameters for the smaller band is fully supported by the larger band.
- 7) According to Appendix C of KDB 447498 D01, NFC SAR is not required if the NFC frequency is less than 100MHz and the power is far below the exemption threshold.

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8.3.1 SAR Result of GSM850

GSM850 SAR Test Record										
Ant 0 Test Record										
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 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI1										
Left cheek	GPRS 2TS	190/836.6	1:4.15	0.134	-0.14	29.99	31.50	1.416	0.190	22.9
Left tilted	GPRS 2TS	190/836.6	1:4.15	0.067	-0.07	29.99	31.50	1.416	0.095	22.9
Right cheek	GPRS 2TS	190/836.6	1:4.15	0.102	0.07	29.99	31.50	1.416	0.144	22.9
Right tilted	GPRS 2TS	190/836.6	1:4.15	0.049	-0.15	29.99	31.50	1.416	0.069	22.9
Body worn Test data(Separate 15mm) DSI4										
Front side	GPRS 2TS	190/836.6	1:4.15	0.101	-0.09	29.99	31.50	1.416	0.143	22.9
Back side	GPRS 2TS	190/836.6	1:4.15	0.129	0.13	29.99	31.50	1.416	0.183	22.9
Hotspot Test data(Separate 10mm) DSI5										
Front side	GPRS 2TS	190/836.6	1:4.15	0.139	0.11	29.99	31.50	1.416	0.197	22.9
Back side	GPRS 2TS	190/836.6	1:4.15	0.265	0.17	29.99	31.50	1.416	0.375	22.9
Left side	GPRS 2TS	190/836.6	1:4.15	0.123	0.01	29.99	31.50	1.416	0.174	22.9
Right side	GPRS 2TS	190/836.6	1:4.15	0.082	0.17	29.99	31.50	1.416	0.116	22.9
Bottom side	GPRS 2TS	190/836.6	1:4.15	0.111	0.13	29.99	31.50	1.416	0.157	22.9
Ant 1 Test Record										
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 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI1										
Left cheek	GPRS 2TS	190/836.6	1:4.15	0.413	0.07	29.76	31.50	1.493	0.617	22.9
Left cheek-Sample2	GPRS 2TS	190/836.6	1:4.15	0.401	-0.09	29.76	31.50	1.493	0.599	22.9
Left cheek-Sample3	GPRS 2TS	190/836.6	1:4.15	0.408	0.02	29.76	31.50	1.493	0.609	22.9
Left tilted	GPRS 2TS	190/836.6	1:4.15	0.071	0.02	29.76	31.50	1.493	0.106	22.9
Right cheek	GPRS 2TS	190/836.6	1:4.15	0.374	0.14	29.76	31.50	1.493	0.558	22.9
Right tilted	GPRS 2TS	190/836.6	1:4.15	0.070	0.17	29.76	31.50	1.493	0.104	22.9
Body worn Test data(Separate 15mm) DSI4										
Front side	GPRS 2TS	190/836.6	1:4.15	0.108	0.11	29.76	31.50	1.493	0.161	22.9
Back side	GPRS 2TS	190/836.6	1:4.15	0.145	-0.02	29.76	31.50	1.493	0.216	22.9
Back side-Sample2	GPRS 2TS	190/836.6	1:4.15	0.138	0.05	29.76	31.50	1.493	0.206	22.9
Back side-Sample3	GPRS 2TS	190/836.6	1:4.15	0.141	0.01	29.76	31.50	1.493	0.210	22.9
Hotspot Test data(Separate 10mm) DSI5										
Front side	GPRS 2TS	190/836.6	1:4.15	0.185	-0.10	29.76	31.50	1.493	0.276	22.9
Back side	GPRS 2TS	190/836.6	1:4.15	0.304	-0.16	29.76	31.50	1.493	0.454	22.9
Left side	GPRS 2TS	190/836.6	1:4.15	0.326	-0.07	29.76	31.50	1.493	0.487	22.9
Left side-Sample2	GPRS 2TS	190/836.6	1:4.15	0.311	0.14	29.76	31.50	1.493	0.464	22.9
Left side-Sample3	GPRS 2TS	190/836.6	1:4.15	0.316	0.09	29.76	31.50	1.493	0.472	22.9

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8.3.2 SAR Result of GSM1900

GSM1900 SAR Test Record										
Ant 0 Test Record										
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 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI1										
Left cheek	GPRS 2TS	661/1880	1:4.15	0.045	0.10	26.90	28.50	1.445	0.065	22.8
Left tilted	GPRS 2TS	661/1880	1:4.15	0.001	-0.12	26.90	28.50	1.445	0.001	22.8
Right cheek	GPRS 2TS	661/1880	1:4.15	0.040	0.08	26.90	28.50	1.445	0.058	22.8
Right tilted	GPRS 2TS	661/1880	1:4.15	0.001	-0.15	26.90	28.50	1.445	0.001	22.8
Body worn Test data(Separate 15mm) DSI4										
Front side	GPRS 2TS	661/1880	1:4.15	0.101	-0.02	26.90	28.50	1.445	0.146	22.8
Back side	GPRS 2TS	661/1880	1:4.15	0.213	-0.03	26.90	28.50	1.445	0.308	22.8
Back side-Sample2	GPRS 2TS	661/1880	1:4.15	0.205	0.09	26.90	28.50	1.445	0.296	22.8
Back side-Sample3	GPRS 2TS	661/1880	1:4.15	0.208	0.14	26.90	28.50	1.445	0.301	22.8
Hotspot Test data(Separate 10mm) DSI5										
Front side	GPRS 2TS	661/1880	1:4.15	0.180	0.17	26.90	28.50	1.445	0.260	22.8
Back side	GPRS 2TS	661/1880	1:4.15	0.439	-0.10	26.90	28.50	1.445	0.635	22.8
Left side	GPRS 2TS	661/1880	1:4.15	0.066	0.18	26.90	28.50	1.445	0.095	22.8
Right side	GPRS 2TS	661/1880	1:4.15	0.055	0.13	26.90	28.50	1.445	0.079	22.8
Bottom side	GPRS 2TS	661/1880	1:4.15	0.676	0.05	26.90	28.50	1.445	0.977	22.8
Bottom side-Sample2	GPRS 2TS	661/1880	1:4.15	0.659	0.09	26.90	28.50	1.445	0.953	22.8
Bottom side-Sample3	GPRS 2TS	661/1880	1:4.15	0.663	-0.17	26.90	28.50	1.445	0.958	22.8
Bottom side	GPRS 2TS	512/1850.2	1:4.15	0.663	-0.08	26.83	28.50	1.469	0.974	22.8
Bottom side	GPRS 2TS	810/1909.8	1:4.15	0.656	-0.05	26.79	28.50	1.483	0.973	22.8
Ant 3 Test Record										
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 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI1										
Left cheek	GPRS 2TS	661/1880	1:4.15	0.265	0.19	27.07	28.50	1.390	0.368	22.8
Left tilted	GPRS 2TS	661/1880	1:4.15	0.229	-0.18	27.07	28.50	1.390	0.318	22.8
Right cheek	GPRS 2TS	661/1880	1:4.15	0.770	0.02	27.07	28.50	1.390	1.070	22.8
Right cheek-Sample2	GPRS 2TS	661/1880	1:4.15	0.761	0.08	27.07	28.50	1.390	1.058	22.8
Right cheek-Sample3	GPRS 2TS	661/1880	1:4.15	0.767	0.02	27.07	28.50	1.390	1.066	22.8
Right cheek	GPRS 2TS	512/1850.2	1:4.15	0.752	-0.09	27.02	28.50	1.406	1.057	22.8
Right cheek	GPRS 2TS	810/1909.8	1:4.15	0.763	-0.02	27.04	28.50	1.400	1.068	22.8
Right tilted	GPRS 2TS	661/1880	1:4.15	0.532	0.16	27.07	28.50	1.390	0.739	22.8
Body worn Test data(Separate 15mm) DSI4										
Front side	GPRS 2TS	661/1880	1:4.15	0.079	0.10	27.07	28.50	1.390	0.110	22.8
Back side	GPRS 2TS	661/1880	1:4.15	0.145	-0.13	27.07	28.50	1.390	0.202	22.8
Hotspot Test data(Separate 10mm) DSI5										
Front side	GPRS 2TS	661/1880	1:4.15	0.168	0.13	27.07	28.50	1.390	0.234	22.8
Back side	GPRS 2TS	661/1880	1:4.15	0.352	-0.14	27.07	28.50	1.390	0.489	22.8
Left side	GPRS 2TS	661/1880	1:4.15	0.217	0.00	27.07	28.50	1.390	0.302	22.8
Top side	GPRS 2TS	661/1880	1:4.15	0.235	-0.07	27.07	28.50	1.390	0.327	22.8

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8.3.3 SAR Result of WCDMA Band II

WCDMA Band II SAR Test Record										
Ant 0 Test Record										
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 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI1										
Left cheek	RMC	9400/1880	1:1	0.156	-0.01	23.98	25.00	1.265	0.197	22.8
Left tilted	RMC	9400/1880	1:1	0.087	-0.08	23.98	25.00	1.265	0.110	22.8
Right cheek	RMC	9400/1880	1:1	0.169	0.01	23.98	25.00	1.265	0.214	22.8
Right tilted	RMC	9400/1880	1:1	0.097	0.18	23.98	25.00	1.265	0.123	22.8
Body worn Test data(Separate 15mm) DSI4										
Front side	RMC	9400/1880	1:1	0.277	0.16	23.98	25.00	1.265	0.350	22.8
Back side	RMC	9400/1880	1:1	0.629	-0.01	23.98	25.00	1.265	0.796	22.8
Back side-Sample2	RMC	9400/1880	1:1	0.614	0.02	23.98	25.00	1.265	0.777	22.8
Back side-Sample3	RMC	9400/1880	1:1	0.618	0.14	23.98	25.00	1.265	0.782	22.8
Hotspot Test data(Separate 10mm) DSI5										
Front side	RMC	9400/1880	1:1	0.218	0.07	19.53	20.50	1.250	0.273	22.8
Back side	RMC	9400/1880	1:1	0.546	0.14	19.53	20.50	1.250	0.683	22.8
Left side	RMC	9400/1880	1:1	0.105	0.04	19.53	20.50	1.250	0.131	22.8
Right side	RMC	9400/1880	1:1	0.083	0.13	19.53	20.50	1.250	0.104	22.8
Bottom side	RMC	9400/1880	1:1	0.694	0.10	19.53	20.50	1.250	0.868	22.8
Bottom side-Sample2	RMC	9400/1880	1:1	0.688	0.02	19.53	20.50	1.250	0.860	22.8
Bottom side-Sample3	RMC	9400/1880	1:1	0.682	0.07	19.53	20.50	1.250	0.853	22.8
Bottom side	RMC	9262/1852.4	1:1	0.676	0.14	19.44	20.50	1.276	0.863	22.8
Bottom side	RMC	9538/1907.6	1:1	0.663	-0.13	19.38	20.50	1.294	0.858	22.8
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data DSI2										
Back side	RMC	9400/1880	1:1	1.390	0.19	19.53	20.50	1.250	1.738	22.8
Bottom side	RMC	9400/1880	1:1	1.840	0.02	19.53	20.50	1.250	2.300	22.8
Bottom side-Sample2	RMC	9400/1880	1:1	1.810	0.05	19.53	20.50	1.250	2.263	22.8
Bottom side-Sample3	RMC	9400/1880	1:1	1.790	0.11	19.53	20.50	1.250	2.238	22.8
Bottom side	RMC	9262/1852.4	1:1	1.770	-0.17	19.44	20.50	1.276	2.259	22.8
Bottom side	RMC	9538/1907.6	1:1	1.710	0.14	19.38	20.50	1.294	2.213	22.8
Product specific 10g SAR Test data DSI4										
Back side-15mm	RMC	9400/1880	1:1	0.389	0.01	23.98	25.00	1.265	0.492	22.8
Bottom side-15mm	RMC	9400/1880	1:1	0.613	0.01	23.98	25.00	1.265	0.775	22.8
Ant 2 Test Record										
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 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI1										
Left cheek	RMC	9400/1880	1:1	0.414	-0.18	19.74	20.50	1.191	0.493	22.8
Left tilted	RMC	9400/1880	1:1	0.489	0.15	19.74	20.50	1.191	0.583	22.8
Right cheek	RMC	9400/1880	1:1	0.770	-0.13	19.74	20.50	1.191	0.917	22.8
Right cheek	RMC	9262/1852.4	1:1	0.749	-0.05	19.56	20.50	1.242	0.930	22.8
Right cheek	RMC	9538/1907.6	1:1	0.736	-0.04	19.69	20.50	1.205	0.887	22.8
Right tilted	RMC	9400/1880	1:1	0.918	0.01	19.74	20.50	1.191	1.094	22.8
Right tilted-Repeat SAR	RMC	9400/1880	1:1	0.905	0.11	19.74	20.50	1.191	1.078	22.8
Right tilted-Sample2	RMC	9400/1880	1:1	0.911	0.02	19.74	20.50	1.191	1.085	22.8

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Right tilted-Sample3	RMC	9400/1880	1:1	0.903	0.01	19.74	20.50	1.191	1.076	22.8
Right tilted	RMC	9262/1852.4	1:1	0.872	-0.15	19.56	20.50	1.242	1.083	22.8
Right tilted	RMC	9538/1907.6	1:1	0.865	-0.11	19.69	20.50	1.205	1.042	22.8
Body worn Test data(Separate 15mm) DS14										
Front side	RMC	9400/1880	1:1	0.217	-0.13	24.21	25.00	1.199	0.260	22.8
Back side	RMC	9400/1880	1:1	0.337	0.15	24.21	25.00	1.199	0.404	22.8
Hotspot Test data(Separate 10mm) DS15										
Front side	RMC	9400/1880	1:1	0.153	-0.07	19.74	20.50	1.191	0.182	22.8
Back side	RMC	9400/1880	1:1	0.263	-0.08	19.74	20.50	1.191	0.313	22.8
Left side	RMC	9400/1880	1:1	0.039	-0.04	19.74	20.50	1.191	0.046	22.8
Top side	RMC	9400/1880	1:1	0.402	0.11	19.74	20.50	1.191	0.479	22.8
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (Separate 0mm 1RB) DS13										
Top side	RMC	9400/1880	1:1	1.570	-0.10	20.23	21.00	1.194	1.875	22.8
Product specific 10g SAR Test data (Separate 0mm 1RB) DS14										
Top side-15mm	RMC	9400/1880	1:1	0.250	0.12	24.21	25.00	1.199	0.300	22.8

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right tilted	9400/1880	0.918	0.905	1.014	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						
5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.						

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8.3.4 SAR Result of WCDMA Band IV

WCDMA Band IV SAR Test Record										
Ant 0 Test Record										
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 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI1										
Left cheek	RMC	1412/1732.4	1:1	0.108	0.13	23.74	25.00	1.337	0.144	23.1
Left tilted	RMC	1412/1732.4	1:1	0.066	0.16	23.74	25.00	1.337	0.088	23.1
Right cheek	RMC	1412/1732.4	1:1	0.098	0.17	23.74	25.00	1.337	0.131	23.1
Right tilted	RMC	1412/1732.4	1:1	0.062	0.16	23.74	25.00	1.337	0.083	23.1
Body worn Test data(Separate 15mm) DSI4										
Front side	RMC	1412/1732.4	1:1	0.212	0.02	23.74	25.00	1.337	0.283	23.1
Back side	RMC	1412/1732.4	1:1	0.489	-0.11	23.74	25.00	1.337	0.654	23.1
Back side-Sample2	RMC	1412/1732.4	1:1	0.483	0.02	23.74	25.00	1.337	0.646	23.1
Back side-Sample3	RMC	1412/1732.4	1:1	0.477	0.01	23.74	25.00	1.337	0.638	23.1
Hotspot Test data(Separate 10mm) DSI5										
Front side	RMC	1412/1732.4	1:1	0.195	-0.10	19.78	21.00	1.324	0.258	23.1
Back side	RMC	1412/1732.4	1:1	0.515	-0.13	19.78	21.00	1.324	0.682	23.1
Left side	RMC	1412/1732.4	1:1	0.107	0.12	19.78	21.00	1.324	0.142	23.1
Right side	RMC	1412/1732.4	1:1	0.085	0.03	19.78	21.00	1.324	0.113	23.1
Bottom side	RMC	1412/1732.4	1:1	0.525	-0.04	19.78	21.00	1.324	0.695	23.1
Bottom side-Sample2	RMC	1412/1732.4	1:1	0.519	0.09	19.78	21.00	1.324	0.687	23.1
Bottom side-Sample3	RMC	1412/1732.4	1:1	0.514	0.02	19.78	21.00	1.324	0.681	23.1
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data DSI2										
Back side	RMC	1412/1732.4	1:1	1.320	0.04	19.78	21.00	1.324	1.748	23.1
Bottom side	RMC	1412/1732.4	1:1	1.730	0.04	19.78	21.00	1.324	2.291	23.1
Bottom side	RMC	1312/1712.4	1:1	1.690	0.06	19.67	21.00	1.358	2.296	23.1
Bottom side	RMC	1513/1752.6	1:1	1.660	-0.18	19.71	21.00	1.346	2.234	23.1
Product specific 10g SAR Test data DSI4										
Back side-15mm	RMC	1412/1732.4	1:1	0.266	-0.09	23.74	25.00	1.337	0.356	23.1
Bottom side-15mm	RMC	1412/1732.4	1:1	0.379	-0.17	23.74	25.00	1.337	0.507	23.1
Ant 2 Test Record										
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 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI1										
Left cheek	RMC	1412/1732.4	1:1	0.418	-0.11	19.51	20.50	1.256	0.525	23.1
Left tilted	RMC	1412/1732.4	1:1	0.501	0.17	19.51	20.50	1.256	0.629	23.1
Right cheek	RMC	1412/1732.4	1:1	0.705	-0.16	19.51	20.50	1.256	0.886	23.1
Right cheek	RMC	1312/1712.4	1:1	0.671	0.17	19.33	20.50	1.309	0.878	23.1
Right cheek	RMC	1513/1752.6	1:1	0.692	0.06	19.43	20.50	1.279	0.885	23.1
Right tilted	RMC	1412/1732.4	1:1	0.818	-0.12	19.51	20.50	1.256	1.027	23.1
Right tilted-Repeat SAR	RMC	1412/1732.4	1:1	0.811	-0.10	19.51	20.50	1.256	1.019	23.1
Right tilted-Sample2	RMC	1412/1732.4	1:1	0.814	0.05	19.51	20.50	1.256	1.022	23.1
Right tilted-Sample3	RMC	1412/1732.4	1:1	0.808	0.03	19.51	20.50	1.256	1.015	23.1
Right tilted	RMC	1312/1712.4	1:1	0.783	-0.11	19.33	20.50	1.309	1.025	23.1
Right tilted	RMC	1513/1752.6	1:1	0.791	-0.13	19.43	20.50	1.279	1.012	23.1
Body worn Test data(Separate 15mm) DSI4										

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Front side	RMC	1412/1732.4	1:1	0.244	0.08	23.88	25.00	1.294	0.316	23.1
Back side	RMC	1412/1732.4	1:1	0.367	-0.11	23.88	25.00	1.294	0.475	23.1
Hotspot Test data(Separate 10mm) DSI5										
Front side	RMC	1412/1732.4	1:1	0.202	0.02	19.51	20.50	1.256	0.254	23.1
Back side	RMC	1412/1732.4	1:1	0.321	0.04	19.51	20.50	1.256	0.403	23.1
Left side	RMC	1412/1732.4	1:1	0.039	0.07	19.51	20.50	1.256	0.049	23.1
Top side	RMC	1412/1732.4	1:1	0.401	0.16	19.51	20.50	1.256	0.504	23.1
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (Separate 0mm 1RB) DSI3										
Back side	RMC	1412/1732.4	1:1	0.531	0.13	21.17	22.00	1.211	0.643	23.1
Top side	RMC	1412/1732.4	1:1	2.060	-0.02	21.17	22.00	1.211	2.494	23.1
Top side-Repeat SAR	RMC	1412/1732.4	1:1	2.030	0.14	21.17	22.00	1.211	2.458	23.1
Top side-Sample2	RMC	1412/1732.4	1:1	2.010	0.09	21.17	22.00	1.211	2.433	23.1
Top side-Sample3	RMC	1412/1732.4	1:1	1.990	-0.11	21.17	22.00	1.211	2.409	23.1
Top side	RMC	1312/1712.4	1:1	1.980	-0.12	21.09	22.00	1.233	2.442	23.1
Top side	RMC	1513/1752.6	1:1	1.920	0.07	21.05	22.00	1.245	2.389	23.1
Product specific 10g SAR Test data (Separate 0mm 1RB) DSI4										
Back side-15mm	RMC	1412/1732.4	1:1	0.224	0.06	23.88	25.00	1.294	0.290	23.1
Top side-15mm	RMC	1412/1732.4	1:1	0.298	0.16	23.88	25.00	1.294	0.386	23.1

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right tilted	1412/1732.4	0.818	0.811	1.009	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						
5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.						

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Front side	1412/1732.4	2.060	2.030	1.015	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 2.0 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 3.75 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 3.0 .						
4) Repeated measurements are not required when the original highest measured SAR is < 2.0 W/kg						
5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.						

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8.3.5 SAR Result of WCDMA Band V

WCDMA Band V SAR Test Record										
Ant 0 Test Record										
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 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI1										
Left cheek	RMC	4182/836.4	1:1	0.172	-0.14	23.77	25.00	1.327	0.228	22.9
Left tilted	RMC	4182/836.4	1:1	0.093	0.11	23.77	25.00	1.327	0.123	22.9
Right cheek	RMC	4182/836.4	1:1	0.141	-0.13	23.77	25.00	1.327	0.187	22.9
Right tilted	RMC	4182/836.4	1:1	0.072	-0.13	23.77	25.00	1.327	0.096	22.9
Body worn Test data(Separate 15mm) DSI4										
Front side	RMC	4182/836.4	1:1	0.096	0.04	23.77	25.00	1.327	0.127	22.9
Back side	RMC	4182/836.4	1:1	0.141	-0.17	23.77	25.00	1.327	0.187	22.9
Hotspot Test data(Separate 10mm) DSI5										
Front side	RMC	4182/836.4	1:1	0.163	-0.03	23.77	25.00	1.327	0.216	22.9
Back side	RMC	4182/836.4	1:1	0.302	0.11	23.77	25.00	1.327	0.401	22.9
Left side	RMC	4182/836.4	1:1	0.186	0.07	23.77	25.00	1.327	0.247	22.9
Right side	RMC	4182/836.4	1:1	0.097	-0.08	23.77	25.00	1.327	0.129	22.9
Bottom side	RMC	4182/836.4	1:1	0.150	0.06	23.77	25.00	1.327	0.199	22.9
Ant 1 Test Record										
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 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI1										
Left cheek	RMC	4182/836.4	1:1	0.717	0.09	24.23	25.00	1.194	0.856	22.9
Left cheek-Sample2	RMC	4182/836.4	1:1	0.712	0.03	24.23	25.00	1.194	0.850	22.9
Left cheek-Sample3	RMC	4182/836.4	1:1	0.709	-0.04	24.23	25.00	1.194	0.847	22.9
Left tilted	RMC	4182/836.4	1:1	0.139	0.07	24.23	25.00	1.194	0.166	22.9
Right cheek	RMC	4182/836.4	1:1	0.710	-0.19	24.23	25.00	1.194	0.848	22.9
Right tilted	RMC	4182/836.4	1:1	0.146	0.05	24.23	25.00	1.194	0.174	22.9
Body worn Test data(Separate 15mm) DSI4										
Front side	RMC	4182/836.4	1:1	0.164	-0.13	24.23	25.00	1.194	0.196	22.9
Back side	RMC	4182/836.4	1:1	0.218	-0.16	24.23	25.00	1.194	0.260	22.9
Back side-Sample2	RMC	4182/836.4	1:1	0.211	0.03	24.23	25.00	1.194	0.252	22.9
Back side-Sample3	RMC	4182/836.4	1:1	0.203	0.09	24.23	25.00	1.194	0.242	22.9
Hotspot Test data(Separate 10mm) DSI5										
Front side	RMC	4182/836.4	1:1	0.304	0.12	24.23	25.00	1.194	0.363	22.9
Back side	RMC	4182/836.4	1:1	0.464	-0.19	24.23	25.00	1.194	0.554	22.9
Left side	RMC	4182/836.4	1:1	0.522	0.05	24.23	25.00	1.194	0.623	22.9
Left side-Sample2	RMC	4182/836.4	1:1	0.511	0.05	24.23	25.00	1.194	0.610	22.9
Left side-Sample3	RMC	4182/836.4	1:1	0.516	-0.14	24.23	25.00	1.194	0.616	22.9

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8.3.6 SAR Result of LTE Band 2

LTE Band 2 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI1											
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.141	0.10	24.61	25.50	1.227	0.173	22.8
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.001	0.08	24.61	25.50	1.227	0.001	22.8
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.048	0.12	24.61	25.50	1.227	0.059	22.8
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.001	-0.12	24.61	25.50	1.227	0.001	22.8
Head Test Data (50%RB) DSI1											
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.113	0.09	23.66	24.50	1.213	0.137	22.8
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.001	0.04	23.66	24.50	1.213	0.001	22.8
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.038	0.11	23.66	24.50	1.213	0.047	22.8
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.001	-0.09	23.66	24.50	1.213	0.001	22.8
Body worn Test data (Separate 15mm 1RB) DSI4											
Front side	20	QPSK 1_0	18900/1880	1:1	0.314	0.07	24.61	25.50	1.227	0.385	22.8
Back side	20	QPSK 1_0	18900/1880	1:1	0.692	-0.01	24.61	25.50	1.227	0.849	22.8
Back side-Sample2	20	QPSK 1_0	18900/1880	1:1	0.685	0.03	24.61	25.50	1.227	0.841	22.8
Back side-Sample3	20	QPSK 1_0	18900/1880	1:1	0.673	0.01	24.61	25.50	1.227	0.826	22.8
Back side	20	QPSK 1_0	18700/1860	1:1	0.683	0.10	24.56	25.50	1.242	0.848	22.8
Back side	20	QPSK 1_0	19100/1900	1:1	0.680	-0.16	24.55	25.50	1.245	0.846	22.8
Body worn Test data (Separate 15mm 50%RB) DSI4											
Front side	20	QPSK 50_0	18900/1880	1:1	0.228	0.02	23.66	24.50	1.213	0.277	22.8
Back side	20	QPSK 50_0	18900/1880	1:1	0.514	0.01	23.66	24.50	1.213	0.624	22.8
Body worn Test data (Separate 15mm 100%RB) DSI4											
Back side	20	QPSK 100_0	18900/1880	1:1	0.505	-0.05	23.39	24.50	1.291	0.652	22.8
Hotspot Test data (Separate 10mm 1RB) DSI5											
Front side	20	QPSK 1_0	18900/1880	1:1	0.215	-0.02	19.88	21.00	1.294	0.278	22.8
Back side	20	QPSK 1_0	18900/1880	1:1	0.517	-0.17	19.88	21.00	1.294	0.669	22.8
Left side	20	QPSK 1_0	18900/1880	1:1	0.127	0.07	19.88	21.00	1.294	0.164	22.8
Right side	20	QPSK 1_0	18900/1880	1:1	0.075	-0.14	19.88	21.00	1.294	0.097	22.8
Bottom side	20	QPSK 1_0	18900/1880	1:1	0.667	0.02	19.88	21.00	1.294	0.863	22.8
Bottom side-Sample2	20	QPSK 1_0	18900/1880	1:1	0.659	0.09	19.88	21.00	1.294	0.853	22.8
Bottom side-Sample3	20	QPSK 1_0	18900/1880	1:1	0.663	0.02	19.88	21.00	1.294	0.858	22.8
Bottom side	20	QPSK 1_0	18700/1860	1:1	0.649	0.18	19.83	21.00	1.309	0.850	22.8
Bottom side	20	QPSK 1_0	19100/1900	1:1	0.632	-0.03	19.75	21.00	1.334	0.843	22.8
Hotspot Test data (Separate 10mm 50%RB) DSI5											
Front side	20	QPSK 50_0	18900/1880	1:1	0.176	0.03	19.84	21.00	1.306	0.230	22.8
Back side	20	QPSK 50_0	18900/1880	1:1	0.403	0.17	19.84	21.00	1.306	0.527	22.8
Left side	20	QPSK 50_0	18900/1880	1:1	0.100	0.17	19.84	21.00	1.306	0.131	22.8
Right side	20	QPSK 50_0	18900/1880	1:1	0.056	-0.13	19.84	21.00	1.306	0.073	22.8
Bottom side	20	QPSK 50_0	18900/1880	1:1	0.540	-0.02	19.84	21.00	1.306	0.706	22.8
Hotspot Test data (Separate 10mm 100%RB) DSI5											
Bottom side	20	QPSK 100_0	18900/1880	1:1	0.532	-0.06	19.62	21.00	1.374	0.731	22.8
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) DSI2											
Back side	20	QPSK 1_0	18900/1880	1:1	1.340	-0.11	19.88	21.00	1.294	1.734	22.8
Bottom side	20	QPSK 1_0	18900/1880	1:1	1.710	0.02	19.88	21.00	1.294	2.213	22.8



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Bottom side-Sample2	20	QPSK 1_0	18900/1880	1:1	1.680	0.04	19.88	21.00	1.294	2.174	22.8
Bottom side-Sample3	20	QPSK 1_0	18900/1880	1:1	1.630	0.14	19.88	21.00	1.294	2.110	22.8
Bottom side	20	QPSK 1_0	18700/1860	1:1	1.660	0.02	19.83	21.00	1.309	2.173	22.8
Bottom side	20	QPSK 1_0	19100/1900	1:1	1.640	0.16	19.75	21.00	1.334	2.187	22.8
Product specific 10g SAR Test data (Separate 0mm 50%RB) DSI2											
Back side	20	QPSK 50_0	18900/1880	1:1	1.280	0.16	19.84	21.00	1.306	1.672	22.8
Bottom side	20	QPSK 50_0	18900/1880	1:1	1.640	0.17	19.84	21.00	1.306	2.142	22.8
Bottom side	20	QPSK 50_0	18700/1860	1:1	1.530	0.04	19.71	21.00	1.346	2.059	22.8
Bottom side	20	QPSK 50_0	19100/1900	1:1	1.550	0.07	19.77	21.00	1.327	2.057	22.8
Product specific 10g SAR Test data (Separate 0mm 100%RB) DSI2											
Bottom side	20	QPSK 100_0	18900/1880	1:1	1.530	0.15	19.62	21.00	1.374	2.102	22.8
Product specific 10g SAR Test data (1RB) DSI4											
Back side-15mm	20	QPSK 1_0	18900/1880	1:1	0.384	0.07	24.31	25.50	1.315	0.505	22.8
Bottom side-15mm	20	QPSK 1_0	18900/1880	1:1	0.544	-0.03	24.31	25.50	1.315	0.715	22.8
Product specific 10g SAR Test data (50%RB) DSI4											
Back side-15mm	20	QPSK 50_0	18900/1880	1:1	0.367	0.17	23.36	24.50	1.300	0.477	22.8
Bottom side-15mm	20	QPSK 50_0	18900/1880	1:1	0.520	-0.18	23.36	24.50	1.300	0.676	22.8
Ant 2 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI1											
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.405	0.14	20.05	21.00	1.245	0.504	22.8
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.487	-0.12	20.05	21.00	1.245	0.606	22.8
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.664	-0.13	20.05	21.00	1.245	0.826	22.8
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.834	-0.02	20.05	21.00	1.245	1.038	22.8
Right tilted-Repeat SAR	20	QPSK 1_0	18900/1880	1:1	0.829	-0.01	20.05	21.00	1.245	1.032	22.8
Right tilted-Sample2	20	QPSK 1_0	18900/1880	1:1	0.826	0.14	20.05	21.00	1.245	1.028	22.8
Right tilted-Sample3	20	QPSK 1_0	18900/1880	1:1	0.814	0.02	20.05	21.00	1.245	1.013	22.8
Right tilted	20	QPSK 1_0	18700/1860	1:1	0.816	0.09	19.98	21.00	1.265	1.032	22.8
Right tilted	20	QPSK 1_0	19100/1900	1:1	0.811	0.17	19.95	21.00	1.274	1.033	22.8
Head Test Data (50%RB) DSI1											
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.332	0.04	19.97	21.00	1.268	0.421	22.8
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.380	0.08	19.97	21.00	1.268	0.482	22.8
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.525	0.04	19.97	21.00	1.268	0.665	22.8
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.626	-0.13	19.97	21.00	1.268	0.793	22.8
Head Test Data (100%RB) DSI1											
Right tilted	20	QPSK 100_0	18900/1880	1:1	0.618	0.07	19.44	21.00	1.432	0.885	22.8
Body worn Test data (Separate 15mm 1RB) DSI4											
Front side	20	QPSK 1_0	18900/1880	1:1	0.237	0.13	24.35	25.50	1.303	0.309	22.8
Back side	20	QPSK 1_0	18900/1880	1:1	0.363	-0.13	24.35	25.50	1.303	0.473	22.8
Body worn Test data (Separate 15mm 50%RB) DSI4											
Front side	20	QPSK 50_0	18900/1880	1:1	0.169	-0.05	23.34	24.50	1.306	0.221	22.8
Back side	20	QPSK 50_0	18900/1880	1:1	0.283	0.03	23.34	24.50	1.306	0.370	22.8
Hotspot Test data (Separate 10mm 1RB) DSI5											
Front side	20	QPSK 1_0	18900/1880	1:1	0.177	-0.12	20.05	21.00	1.245	0.220	22.8
Back side	20	QPSK 1_0	18900/1880	1:1	0.310	-0.14	20.05	21.00	1.245	0.386	22.8
Left side	20	QPSK 1_0	18900/1880	1:1	0.050	-0.03	20.05	21.00	1.245	0.062	22.8
Top side	20	QPSK 1_0	18900/1880	1:1	0.378	0.04	20.05	21.00	1.245	0.470	22.8
Hotspot Test data (Separate 10mm 50%RB) DSI5											
Front side	20	QPSK 50_0	18900/1880	1:1	0.145	0.15	19.97	21.00	1.268	0.184	22.8



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Back side	20	QPSK 50_0	18900/1880	1:1	0.242	-0.06	19.97	21.00	1.268	0.307	22.8
Left side	20	QPSK 50_0	18900/1880	1:1	0.040	0.10	19.97	21.00	1.268	0.050	22.8
Top side	20	QPSK 50_0	18900/1880	1:1	0.284	0.05	19.97	21.00	1.268	0.359	22.8
Ant 3 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI1											
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.450	0.06	19.33	20.00	1.167	0.525	22.8
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.541	0.11	19.33	20.00	1.167	0.631	22.8
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.638	-0.08	19.33	20.00	1.167	0.744	22.8
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.496	0.15	19.33	20.00	1.167	0.579	22.8
Head Test Data (50%RB) DSI1											
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.431	0.03	19.22	20.00	1.197	0.516	22.8
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.505	0.00	19.22	20.00	1.197	0.604	22.8
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.609	-0.17	19.22	20.00	1.197	0.729	22.8
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.476	-0.16	19.22	20.00	1.197	0.570	22.8
Body worn Test data (Separate 15mm 1RB) DSI4											
Front side	20	QPSK 1_0	18900/1880	1:1	0.211	0.05	21.39	22.00	1.151	0.243	22.8
Back side	20	QPSK 1_0	18900/1880	1:1	0.416	0.16	21.39	22.00	1.151	0.479	22.8
Body worn Test data (Separate 15mm 50%RB) DSI4											
Front side	20	QPSK 50_0	18900/1880	1:1	0.199	-0.11	20.44	21.00	1.138	0.226	22.8
Back side	20	QPSK 50_0	18900/1880	1:1	0.403	0.10	20.44	21.00	1.138	0.458	22.8
Hotspot Test data (Separate 10mm 1RB) DSI5											
Front side	20	QPSK 1_0	18900/1880	1:1	0.211	0.05	21.39	22.00	1.151	0.243	22.8
Back side	20	QPSK 1_0	18900/1880	1:1	0.416	0.16	21.39	22.00	1.151	0.479	22.8
Left side	20	QPSK 1_0	18900/1880	1:1	0.398	0.19	21.39	22.00	1.151	0.458	22.8
Top side	20	QPSK 1_0	18900/1880	1:1	0.195	-0.09	21.39	22.00	1.151	0.224	22.8
Hotspot Test data (Separate 10mm 50%RB) DSI5											
Front side	20	QPSK 50_0	18900/1880	1:1	0.199	-0.11	20.44	21.00	1.138	0.226	22.8
Back side	20	QPSK 50_0	18900/1880	1:1	0.403	0.10	20.44	21.00	1.138	0.458	22.8
Left side	20	QPSK 50_0	18900/1880	1:1	0.381	0.01	20.44	21.00	1.138	0.433	22.8
Top side	20	QPSK 50_0	18900/1880	1:1	0.188	-0.17	20.44	21.00	1.138	0.214	22.8

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right tilted	18900/1880	0.834	0.829	1.006	N/A	N/A

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

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

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

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

5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.

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8.3.7 SAR Result of LTE Band 7

LTE Band 7 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI1											
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.169	0.03	24.25	25.50	1.334	0.225	23.0
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.048	0.08	24.25	25.50	1.334	0.064	23.0
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.104	0.16	24.25	25.50	1.334	0.139	23.0
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.078	0.16	24.25	25.50	1.334	0.104	23.0
Left cheek with Intra-band CA	20	QPSK 1_0	21100/2535	1:1	0.155	0.18	24.19	25.50	1.352	0.210	23.0
		QPSK 1_99	20902/2515.2								
Head Test Data (50%RB) DSI1											
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.132	-0.06	23.56	24.50	1.242	0.164	23.0
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.042	0.19	23.56	24.50	1.242	0.052	23.0
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.085	-0.04	23.56	24.50	1.242	0.106	23.0
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.071	0.13	23.56	24.50	1.242	0.088	23.0
Body worn Test data (Separate 15mm 1RB) DSI4											
Front side	20	QPSK 1_0	21100/2535	1:1	0.290	-0.07	24.25	25.50	1.334	0.387	23.0
Back side	20	QPSK 1_0	21100/2535	1:1	0.417	-0.01	24.25	25.50	1.334	0.556	23.0
Back side-Sample2	20	QPSK 1_0	21100/2535	1:1	0.413	0.03	24.25	25.50	1.334	0.551	23.0
Back side-Sample3	20	QPSK 1_0	21100/2535	1:1	0.409	0.02	24.25	25.50	1.334	0.545	23.0
Back side with Intra-band CA	20	QPSK 1_0	21100/2535	1:1	0.405	-0.10	24.19	25.50	1.352	0.548	23.0
		QPSK 1_99	20902/2515.2								
Body worn Test data (Separate 15mm 50%RB) DSI4											
Front side	20	QPSK 50_0	21100/2535	1:1	0.216	0.07	23.56	24.50	1.242	0.268	23.0
Back side	20	QPSK 50_0	21100/2535	1:1	0.338	-0.15	23.56	24.50	1.242	0.420	23.0
Hotspot Test data (Separate 10mm 1RB) DSI5											
Front side	20	QPSK 1_0	21100/2535	1:1	0.284	-0.04	22.53	23.50	1.250	0.355	23.0
Back side	20	QPSK 1_0	21100/2535	1:1	0.497	-0.05	22.53	23.50	1.250	0.621	23.0
Back side-Sample2	20	QPSK 1_0	21100/2535	1:1	0.491	0.02	22.53	23.50	1.250	0.614	23.0
Back side-Sample3	20	QPSK 1_0	21100/2535	1:1	0.488	0.01	22.53	23.50	1.250	0.610	23.0
Left side	20	QPSK 1_0	21100/2535	1:1	0.124	-0.10	22.53	23.50	1.250	0.155	23.0
Right side	20	QPSK 1_0	21100/2535	1:1	0.110	0.14	22.53	23.50	1.250	0.138	23.0
Bottom side	20	QPSK 1_0	21100/2535	1:1	0.412	-0.01	22.53	23.50	1.250	0.515	23.0
Back side with Intra-band CA	20	QPSK 1_0	21100/2535	1:1	0.473	0.10	22.42	23.50	1.282	0.607	23.0
		QPSK 1_99	20902/2515.2								
Hotspot Test data (Separate 10mm 50%RB) DSI5											
Front side	20	QPSK 50_0	21100/2535	1:1	0.227	0.14	22.49	23.50	1.262	0.287	23.0
Back side	20	QPSK 50_0	21100/2535	1:1	0.398	-0.08	22.49	23.50	1.262	0.502	23.0
Left side	20	QPSK 50_0	21100/2535	1:1	0.099	0.16	22.49	23.50	1.262	0.125	23.0
Right side	20	QPSK 50_0	21100/2535	1:1	0.088	-0.07	22.49	23.50	1.262	0.111	23.0
Bottom side	20	QPSK 50_0	21100/2535	1:1	0.330	0.09	22.49	23.50	1.262	0.416	23.0
Ant 2 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI1											
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.410	-0.15	17.37	18.50	1.297	0.532	23.0

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Left tilted	20	QPSK 1_0	21100/2535	1:1	0.491	0.09	17.37	18.50	1.297	0.637	23.0
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.560	0.01	17.37	18.50	1.297	0.726	23.0
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.808	-0.03	17.37	18.50	1.297	1.048	23.0
Right tilted-Repeat SAR	20	QPSK 1_0	21100/2535	1:1	0.794	0.13	17.37	18.50	1.297	1.030	23.0
Right tilted-Sample2	20	QPSK 1_0	21100/2535	1:1	0.791	0.05	17.37	18.50	1.297	1.026	23.0
Right tilted-Sample3	20	QPSK 1_0	21100/2535	1:1	0.784	0.02	17.37	18.50	1.297	1.017	23.0
Right tilted	20	QPSK 1_0	20850/2510	1:1	0.781	-0.08	17.35	18.50	1.303	1.018	23.0
Right tilted	20	QPSK 1_0	21350/2560	1:1	0.792	0.04	17.29	18.50	1.321	1.046	23.0
Right tilted with Intra-band CA	20	QPSK 1_0	21100/2535	1:1	0.776	0.08	17.26	18.50	1.330	1.032	23.0
		QPSK 1_99	20902/2515.2								
Head Test Data (50%RB) DSI1											
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.316	0.10	17.26	18.50	1.330	0.420	23.0
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.388	-0.04	17.26	18.50	1.330	0.516	23.0
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.436	0.02	17.26	18.50	1.330	0.580	23.0
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.629	-0.07	17.26	18.50	1.330	0.837	23.0
Head Test Data (100%RB) DSI1											
Right tilted	20	QPSK 100_0	21100/2535	1:1	0.616	0.13	17.13	18.50	1.371	0.844	23.0
Body worn Test data (Separate 15mm 1RB) DSI4											
Front side	20	QPSK 1_0	21100/2535	1:1	0.217	0.01	24.26	25.50	1.330	0.289	23.0
Back side	20	QPSK 1_0	21100/2535	1:1	0.336	0.16	24.26	25.50	1.330	0.447	23.0
Back side with Intra-band CA	20	QPSK 1_0	21100/2535	1:1	0.328	-0.02	24.22	25.50	1.343	0.440	23.0
		QPSK 1_99	20902/2515.2								
Body worn Test data (Separate 15mm 50%RB) DSI4											
Front side	20	QPSK 50_0	21100/2535	1:1	0.168	-0.10	23.66	24.50	1.213	0.204	23.0
Back side	20	QPSK 50_0	21100/2535	1:1	0.271	0.17	23.66	24.50	1.213	0.329	23.0
Hotspot Test data (Separate 10mm 1RB) DSI5											
Front side	20	QPSK 1_0	21100/2535	1:1	0.117	-0.12	17.37	18.50	1.297	0.152	23.0
Back side	20	QPSK 1_0	21100/2535	1:1	0.197	-0.16	17.37	18.50	1.297	0.256	23.0
Left side	20	QPSK 1_0	21100/2535	1:1	0.050	-0.12	17.37	18.50	1.297	0.065	23.0
Top side	20	QPSK 1_0	21100/2535	1:1	0.236	-0.13	17.37	18.50	1.297	0.306	23.0
Top side with Intra-band CA	20	QPSK 1_0	21100/2535	1:1	0.232	-0.09	17.26	18.50	1.330	0.309	23.0
		QPSK 1_99	20902/2515.2								
Hotspot Test data (Separate 10mm 50%RB) DSI5											
Front side	20	QPSK 50_0	21100/2535	1:1	0.096	-0.06	17.26	18.50	1.330	0.128	23.0
Back side	20	QPSK 50_0	21100/2535	1:1	0.154	0.02	17.26	18.50	1.330	0.204	23.0
Left side	20	QPSK 50_0	21100/2535	1:1	0.040	-0.03	17.26	18.50	1.330	0.053	23.0
Top side	20	QPSK 50_0	21100/2535	1:1	0.215	-0.04	17.26	18.50	1.330	0.285	23.0
Ant 3 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI1											
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.298	0.08	20.68	21.00	1.076	0.321	23.0
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.188	0.11	20.68	21.00	1.076	0.202	23.0
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.704	-0.15	20.68	21.00	1.076	0.758	23.0
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.399	0.09	20.68	21.00	1.076	0.430	23.0
Right cheek with Intra-band CA	20	QPSK 1_0	21100/2535	1:1	0.686	0.01	20.61	21.00	1.094	0.750	23.0
		QPSK 1_99	20902/2515.2								
Head Test Data (50%RB) DSI1											
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.269	0.08	20.66	21.00	1.081	0.291	23.0
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.171	0.04	20.66	21.00	1.081	0.185	23.0

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Right cheek	20	QPSK 50_0	21100/2535	1:1	0.684	0.12	20.66	21.00	1.081	0.740	23.0
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.381	0.03	20.66	21.00	1.081	0.412	23.0
Body worn Test data (Separate 15mm 1RB) DSI4											
Front side	20	QPSK 1_0	21100/2535	1:1	0.181	0.19	21.58	22.00	1.102	0.199	23.0
Back side	20	QPSK 1_0	21100/2535	1:1	0.273	0.18	21.58	22.00	1.102	0.301	23.0
Back side with Intra-band CA	20	QPSK 1_0	21100/2535	1:1	0.261	0.05	21.53	22.00	1.114	0.291	23.0
		QPSK 1_99	20902/2515.2								
Body worn Test data (Separate 15mm 50%RB) DSI4											
Front side	20	QPSK 50_0	21100/2535	1:1	0.142	-0.13	20.63	21.00	1.089	0.155	23.0
Back side	20	QPSK 50_0	21100/2535	1:1	0.232	-0.03	20.63	21.00	1.089	0.253	23.0
Hotspot Test data (Separate 10mm 1RB) DSI5											
Front side	20	QPSK 1_0	21100/2535	1:1	0.181	0.19	21.58	22.00	1.102	0.199	23.0
Back side	20	QPSK 1_0	21100/2535	1:1	0.273	0.18	21.58	22.00	1.102	0.301	23.0
Left side	20	QPSK 1_0	21100/2535	1:1	0.182	-0.17	21.58	22.00	1.102	0.200	23.0
Top side	20	QPSK 1_0	21100/2535	1:1	0.070	0.06	21.58	22.00	1.102	0.077	23.0
Back side with Intra-band CA	20	QPSK 1_0	21100/2535	1:1	0.261	0.05	21.53	22.00	1.114	0.291	23.0
		QPSK 1_99	20902/2515.2								
Hotspot Test data (Separate 10mm 50%RB) DSI5											
Front side	20	QPSK 50_0	21100/2535	1:1	0.142	-0.13	20.63	21.00	1.089	0.155	23.0
Back side	20	QPSK 50_0	21100/2535	1:1	0.232	-0.03	20.63	21.00	1.089	0.253	23.0
Left side	20	QPSK 50_0	21100/2535	1:1	0.139	-0.12	20.63	21.00	1.089	0.151	23.0
Top side	20	QPSK 50_0	21100/2535	1:1	0.044	0.16	20.63	21.00	1.089	0.048	23.0

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right tilted	21100/2535	0.808	0.794	1.018	N/A	N/A
<p>Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.</p> <p>2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).</p> <p>3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.</p> <p>4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg</p> <p>5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.</p>						

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8.3.8 SAR Result of LTE Band 12

LTE Band 12 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI1											
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.101	0.07	24.52	25.50	1.253	0.127	23.2
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.063	-0.17	24.52	25.50	1.253	0.079	23.2
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.084	0.09	24.52	25.50	1.253	0.105	23.2
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.001	0.13	24.52	25.50	1.253	0.001	23.2
Head Test Data (50%RB) DSI1											
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.081	0.17	23.43	24.50	1.279	0.103	23.2
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.050	-0.17	23.43	24.50	1.279	0.064	23.2
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.067	-0.18	23.43	24.50	1.279	0.086	23.2
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.001	0.11	23.43	24.50	1.279	0.001	23.2
Body worn Test data (Separate 15mm 1RB) DSI4											
Front side	10	QPSK 1_0	23095/707.5	1:1	0.129	0.07	24.52	25.50	1.253	0.162	23.2
Back side	10	QPSK 1_0	23095/707.5	1:1	0.168	0.12	24.52	25.50	1.253	0.211	23.2
Body worn Test data (Separate 15mm 50%RB) DSI4											
Front side	10	QPSK 25_0	23095/707.5	1:1	0.093	0.09	23.43	24.50	1.279	0.119	23.2
Back side	10	QPSK 25_0	23095/707.5	1:1	0.135	-0.19	23.43	24.50	1.279	0.173	23.2
Hotspot Test data (Separate 10mm 1RB) DSI5											
Front side	10	QPSK 1_0	23095/707.5	1:1	0.125	-0.08	24.52	25.50	1.253	0.157	23.2
Back side	10	QPSK 1_0	23095/707.5	1:1	0.181	0.02	24.52	25.50	1.253	0.227	23.2
Left side	10	QPSK 1_0	23095/707.5	1:1	0.261	0.06	24.52	25.50	1.253	0.327	23.2
Right side	10	QPSK 1_0	23095/707.5	1:1	0.152	0.08	24.52	25.50	1.253	0.190	23.2
Bottom side	10	QPSK 1_0	23095/707.5	1:1	0.074	0.19	24.52	25.50	1.253	0.093	23.2
Hotspot Test data (Separate 10mm 50%RB) DSI5											
Front side	10	QPSK 25_0	23095/707.5	1:1	0.103	-0.18	23.43	24.50	1.279	0.131	23.2
Back side	10	QPSK 25_0	23095/707.5	1:1	0.141	0.12	23.43	24.50	1.279	0.181	23.2
Left side	10	QPSK 25_0	23095/707.5	1:1	0.206	-0.18	23.43	24.50	1.279	0.264	23.2
Right side	10	QPSK 25_0	23095/707.5	1:1	0.114	-0.18	23.43	24.50	1.279	0.146	23.2
Bottom side	10	QPSK 25_0	23095/707.5	1:1	0.056	0.01	23.43	24.50	1.279	0.071	23.2
Ant 1 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI1											
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.457	-0.01	24.67	25.50	1.211	0.553	23.2
Left cheek-Sample2	10	QPSK 1_0	23095/707.5	1:1	0.449	0.02	24.67	25.50	1.211	0.544	23.2
Left cheek-Sample3	10	QPSK 1_0	23095/707.5	1:1	0.452	0.09	24.67	25.50	1.211	0.547	23.2
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.092	0.00	24.67	25.50	1.211	0.111	23.2
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.444	-0.17	24.67	25.50	1.211	0.538	23.2
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.088	-0.01	24.67	25.50	1.211	0.107	23.2
Head Test Data (50%RB) DSI1											
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.366	0.09	23.53	24.50	1.250	0.457	23.2
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.074	0.19	23.53	24.50	1.250	0.092	23.2
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.355	0.07	23.53	24.50	1.250	0.444	23.2
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.070	0.12	23.53	24.50	1.250	0.088	23.2



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Body worn Test data (Separate 15mm 1RB) DSI4											
Front side	10	QPSK 1_0	23095/707.5	1:1	0.116	0.19	24.67	25.50	1.211	0.140	23.2
Back side	10	QPSK 1_0	23095/707.5	1:1	0.176	-0.03	24.67	25.50	1.211	0.213	23.2
Back side-Sample2	10	QPSK 1_0	23095/707.5	1:1	0.171	0.06	24.67	25.50	1.211	0.207	23.2
Back side-Sample3	10	QPSK 1_0	23095/707.5	1:1	0.164	0.02	24.67	25.50	1.211	0.199	23.2
Body worn Test data (Separate 15mm 50%RB) DSI4											
Front side	10	QPSK 25_0	23095/707.5	1:1	0.101	0.10	23.53	24.50	1.250	0.126	23.2
Back side	10	QPSK 25_0	23095/707.5	1:1	0.142	0.09	23.53	24.50	1.250	0.178	23.2
Hotspot Test data (Separate 10mm 1RB) DSI5											
Front side	10	QPSK 1_0	23095/707.5	1:1	0.216	-0.16	24.67	25.50	1.211	0.261	23.2
Back side	10	QPSK 1_0	23095/707.5	1:1	0.334	-0.15	24.67	25.50	1.211	0.404	23.2
Left side	10	QPSK 1_0	23095/707.5	1:1	0.473	-0.17	24.67	25.50	1.211	0.573	23.2
Left side-Sample2	10	QPSK 1_0	23095/707.5	1:1	0.466	0.02	24.67	25.50	1.211	0.564	23.2
Left side-Sample3	10	QPSK 1_0	23095/707.5	1:1	0.469	0.01	24.67	25.50	1.211	0.568	23.2
Hotspot Test data (Separate 10mm 50%RB) DSI5											
Front side	10	QPSK 25_0	23095/707.5	1:1	0.177	-0.11	23.53	24.50	1.250	0.221	23.2
Back side	10	QPSK 25_0	23095/707.5	1:1	0.261	-0.17	23.53	24.50	1.250	0.326	23.2
Left side	10	QPSK 25_0	23095/707.5	1:1	0.374	-0.11	23.53	24.50	1.250	0.467	23.2

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8.3.9 SAR Result of LTE Band 13

LTE Band 13 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI1											
Left cheek	10	QPSK 1_0	23230/782	1:1	0.114	0.03	24.57	25.50	1.239	0.141	23.2
Left tilted	10	QPSK 1_0	23230/782	1:1	0.075	-0.19	24.57	25.50	1.239	0.093	23.2
Right cheek	10	QPSK 1_0	23230/782	1:1	0.085	-0.03	24.57	25.50	1.239	0.105	23.2
Right tilted	10	QPSK 1_0	23230/782	1:1	0.053	-0.17	24.57	25.50	1.239	0.066	23.2
Head Test Data (50%RB) DSI1											
Left cheek	10	QPSK 25_0	23230/782	1:1	0.091	-0.03	23.49	24.50	1.262	0.115	23.2
Left tilted	10	QPSK 25_0	23230/782	1:1	0.060	0.08	23.49	24.50	1.262	0.076	23.2
Right cheek	10	QPSK 25_0	23230/782	1:1	0.068	0.05	23.49	24.50	1.262	0.086	23.2
Right tilted	10	QPSK 25_0	23230/782	1:1	0.042	0.16	23.49	24.50	1.262	0.054	23.2
Body worn Test data (Separate 15mm 1RB) DSI4											
Front side	10	QPSK 1_0	23230/782	1:1	0.054	0.15	24.57	25.50	1.239	0.067	23.2
Back side	10	QPSK 1_0	23230/782	1:1	0.070	-0.08	24.57	25.50	1.239	0.087	23.2
Body worn Test data (Separate 15mm 50%RB) DSI4											
Front side	10	QPSK 25_0	23230/782	1:1	0.041	-0.10	23.49	24.50	1.262	0.052	23.2
Back side	10	QPSK 25_0	23230/782	1:1	0.058	0.17	23.49	24.50	1.262	0.073	23.2
Hotspot Test data (Separate 10mm 1RB) DSI5											
Front side	10	QPSK 1_0	23230/782	1:1	0.062	-0.08	24.57	25.50	1.239	0.077	23.2
Back side	10	QPSK 1_0	23230/782	1:1	0.129	-0.01	24.57	25.50	1.239	0.160	23.2
Left side	10	QPSK 1_0	23230/782	1:1	0.094	-0.04	24.57	25.50	1.239	0.116	23.2
Right side	10	QPSK 1_0	23230/782	1:1	0.051	0.07	24.57	25.50	1.239	0.063	23.2
Bottom side	10	QPSK 1_0	23230/782	1:1	0.074	0.03	24.57	25.50	1.239	0.092	23.2
Hotspot Test data (Separate 10mm 50%RB) DSI5											
Front side	10	QPSK 25_0	23230/782	1:1	0.051	0.19	23.49	24.50	1.262	0.064	23.2
Back side	10	QPSK 25_0	23230/782	1:1	0.101	0.11	23.49	24.50	1.262	0.127	23.2
Left side	10	QPSK 25_0	23230/782	1:1	0.074	-0.01	23.49	24.50	1.262	0.094	23.2
Right side	10	QPSK 25_0	23230/782	1:1	0.038	-0.14	23.49	24.50	1.262	0.048	23.2
Bottom side	10	QPSK 25_0	23230/782	1:1	0.056	-0.17	23.49	24.50	1.262	0.070	23.2
Ant 1 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI1											
Left cheek	10	QPSK 1_0	23230/782	1:1	0.785	0.01	23.64	24.50	1.219	0.957	23.2
Left cheek-Sample2	10	QPSK 1_0	23230/782	1:1	0.779	0.06	23.64	24.50	1.219	0.950	23.2
Left cheek-Sample3	10	QPSK 1_0	23230/782	1:1	0.781	0.02	23.64	24.50	1.219	0.952	23.2
Left tilted	10	QPSK 1_0	23230/782	1:1	0.158	-0.17	23.64	24.50	1.219	0.193	23.2
Right cheek	10	QPSK 1_0	23230/782	1:1	0.711	-0.17	23.64	24.50	1.219	0.867	23.2
Right tilted	10	QPSK 1_0	23230/782	1:1	0.136	-0.18	23.64	24.50	1.219	0.166	23.2
Head Test Data (50%RB) DSI1											
Left cheek	10	QPSK 25_0	23230/782	1:1	0.628	0.15	23.57	24.50	1.239	0.778	23.2
Left tilted	10	QPSK 25_0	23230/782	1:1	0.126	0.08	23.57	24.50	1.239	0.157	23.2
Right cheek	10	QPSK 25_0	23230/782	1:1	0.569	-0.10	23.57	24.50	1.239	0.705	23.2
Right tilted	10	QPSK 25_0	23230/782	1:1	0.109	0.13	23.57	24.50	1.239	0.135	23.2



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Head Test Data (100%RB) DSI1											
Left cheek	10	QPSK 50_0	23230/782	1:1	0.611	-0.18	23.42	24.50	1.282	0.784	23.2
Right cheek	10	QPSK 50_0	23230/782	1:1	0.574	0.17	23.42	24.50	1.282	0.736	23.2
Body worn Test data (Separate 15mm 1RB) DSI4											
Front side	10	QPSK 1_0	23230/782	1:1	0.140	0.09	24.52	25.50	1.253	0.175	23.2
Back side	10	QPSK 1_0	23230/782	1:1	0.205	0.03	24.52	25.50	1.253	0.257	23.2
Back side-Sample2	10	QPSK 1_0	23230/782	1:1	0.195	0.05	24.52	25.50	1.253	0.244	23.2
Back side-Sample3	10	QPSK 1_0	23230/782	1:1	0.199	-0.14	24.52	25.50	1.253	0.249	23.2
Body worn Test data (Separate 15mm 50%RB) DSI4											
Front side	10	QPSK 25_0	23230/782	1:1	0.103	-0.13	23.52	24.50	1.253	0.129	23.2
Back side	10	QPSK 25_0	23230/782	1:1	0.161	-0.17	23.52	24.50	1.253	0.202	23.2
Hotspot Test data (Separate 10mm 1RB) DSI5											
Front side	10	QPSK 1_0	23230/782	1:1	0.210	0.09	23.64	24.50	1.219	0.256	23.2
Back side	10	QPSK 1_0	23230/782	1:1	0.315	0.18	23.64	24.50	1.219	0.384	23.2
Left side	10	QPSK 1_0	23230/782	1:1	0.352	-0.01	23.64	24.50	1.219	0.429	23.2
Left side-Sample2	10	QPSK 1_0	23230/782	1:1	0.346	0.02	23.64	24.50	1.219	0.422	23.2
Left side-Sample3	10	QPSK 1_0	23230/782	1:1	0.341	0.09	23.64	24.50	1.219	0.416	23.2
Hotspot Test data (Separate 10mm 50%RB) DSI5											
Front side	10	QPSK 25_0	23230/782	1:1	0.172	0.17	23.57	24.50	1.239	0.213	23.2
Back side	10	QPSK 25_0	23230/782	1:1	0.246	-0.07	23.57	24.50	1.239	0.304	23.2
Left side	10	QPSK 25_0	23230/782	1:1	0.278	0.06	23.57	24.50	1.239	0.344	23.2



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8.3.10 SAR Result of LTE Band 26

LTE Band 26 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI1											
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.091	0.06	24.89	25.50	1.151	0.105	22.9
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.086	-0.08	24.89	25.50	1.151	0.099	22.9
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.137	-0.11	24.89	25.50	1.151	0.158	22.9
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.066	-0.10	24.89	25.50	1.151	0.076	22.9
Head Test Data (50%RB) DSI1											
Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.073	0.07	23.87	24.50	1.156	0.084	22.9
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.069	0.19	23.87	24.50	1.156	0.080	22.9
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.110	-0.16	23.87	24.50	1.156	0.127	22.9
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.053	-0.18	23.87	24.50	1.156	0.061	22.9
Body worn Test data (Separate 15mm 1RB) DSI4											
Front side	15	QPSK 1_0	26865/831.5	1:1	0.094	0.09	24.89	25.50	1.151	0.108	22.9
Back side	15	QPSK 1_0	26865/831.5	1:1	0.125	0.06	24.89	25.50	1.151	0.144	22.9
Body worn Test data (Separate 15mm 50%RB) DSI4											
Front side	15	QPSK 36_0	26865/831.5	1:1	0.077	-0.15	23.87	24.50	1.156	0.089	22.9
Back side	15	QPSK 36_0	26865/831.5	1:1	0.089	-0.10	23.87	24.50	1.156	0.103	22.9
Hotspot Test data (Separate 10mm 1RB) DSI5											
Front side	15	QPSK 1_0	26865/831.5	1:1	0.152	-0.07	24.89	25.50	1.151	0.175	22.9
Back side	15	QPSK 1_0	26865/831.5	1:1	0.290	-0.01	24.89	25.50	1.151	0.334	22.9
Left side	15	QPSK 1_0	26865/831.5	1:1	0.178	-0.18	24.89	25.50	1.151	0.205	22.9
Right side	15	QPSK 1_0	26865/831.5	1:1	0.094	0.15	24.89	25.50	1.151	0.108	22.9
Bottom side	15	QPSK 1_0	26865/831.5	1:1	0.146	0.15	24.89	25.50	1.151	0.168	22.9
Hotspot Test data (Separate 10mm 50%RB) DSI5											
Front side	15	QPSK 36_0	26865/831.5	1:1	0.125	-0.19	23.87	24.50	1.156	0.144	22.9
Back side	15	QPSK 36_0	26865/831.5	1:1	0.226	0.12	23.87	24.50	1.156	0.262	22.9
Left side	15	QPSK 36_0	26865/831.5	1:1	0.141	0.07	23.87	24.50	1.156	0.163	22.9
Right side	15	QPSK 36_0	26865/831.5	1:1	0.071	-0.11	23.87	24.50	1.156	0.082	22.9
Bottom side	15	QPSK 36_0	26865/831.5	1:1	0.110	0.09	23.87	24.50	1.156	0.127	22.9
Ant 1 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI1											
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.678	0.16	24.85	25.50	1.161	0.787	22.9
Left cheek-Sample2	15	QPSK 1_0	26865/831.5	1:1	0.674	0.02	24.85	25.50	1.161	0.783	22.9
Left cheek-Sample3	15	QPSK 1_0	26865/831.5	1:1	0.669	0.03	24.85	25.50	1.161	0.777	22.9
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.128	-0.14	24.85	25.50	1.161	0.149	22.9
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.612	0.08	24.85	25.50	1.161	0.711	22.9
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.111	-0.16	24.85	25.50	1.161	0.129	22.9
Head Test Data (50%RB) DSI1											
Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.542	-0.06	23.91	24.50	1.146	0.621	22.9
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.102	-0.19	23.91	24.50	1.146	0.117	22.9
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.490	-0.10	23.91	24.50	1.146	0.561	22.9
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.089	-0.15	23.91	24.50	1.146	0.102	22.9

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Body worn Test data (Separate 15mm 1RB) DSI4											
Front side	15	QPSK 1_0	26865/831.5	1:1	0.137	-0.08	24.85	25.50	1.161	0.159	22.9
Back side	15	QPSK 1_0	26865/831.5	1:1	0.202	-0.15	24.85	25.50	1.161	0.235	22.9
Back side-Sample2	15	QPSK 1_0	26865/831.5	1:1	0.193	0.04	24.85	25.50	1.161	0.224	22.9
Back side-Sample3	15	QPSK 1_0	26865/831.5	1:1	0.186	0.14	24.85	25.50	1.161	0.216	22.9
Body worn Test data (Separate 15mm 50%RB) DSI4											
Front side	15	QPSK 36_0	26865/831.5	1:1	0.096	0.07	23.91	24.50	1.146	0.110	22.9
Back side	15	QPSK 36_0	26865/831.5	1:1	0.171	0.04	23.91	24.50	1.146	0.196	22.9
Hotspot Test data (Separate 10mm 1RB) DSI5											
Front side	15	QPSK 1_0	26865/831.5	1:1	0.272	-0.17	24.85	25.50	1.161	0.316	22.9
Back side	15	QPSK 1_0	26865/831.5	1:1	0.415	-0.19	24.85	25.50	1.161	0.482	22.9
Left side	15	QPSK 1_0	26865/831.5	1:1	0.507	-0.07	24.85	25.50	1.161	0.589	22.9
Left side-Sample2	15	QPSK 1_0	26865/831.5	1:1	0.493	0.02	24.85	25.50	1.161	0.573	22.9
Left side-Sample3	15	QPSK 1_0	26865/831.5	1:1	0.501	-0.03	24.85	25.50	1.161	0.582	22.9
Hotspot Test data (Separate 10mm 50%RB) DSI5											
Front side	15	QPSK 36_0	26865/831.5	1:1	0.223	0.05	23.91	24.50	1.146	0.255	22.9
Back side	15	QPSK 36_0	26865/831.5	1:1	0.324	0.08	23.91	24.50	1.146	0.371	22.9
Left side	15	QPSK 36_0	26865/831.5	1:1	0.401	0.15	23.91	24.50	1.146	0.459	22.9

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8.3.11 SAR Result of LTE Band 38

LTE Band 38 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI1											
Left cheek	20	QPSK 1_0	38000/2595	1:1.58	0.067	0.09	24.37	25.50	1.297	0.087	23.0
Left tilted	20	QPSK 1_0	38000/2595	1:1.58	0.042	-0.07	24.37	25.50	1.297	0.054	23.0
Right cheek	20	QPSK 1_0	38000/2595	1:1.58	0.080	0.09	24.37	25.50	1.297	0.104	23.0
Right tilted	20	QPSK 1_0	38000/2595	1:1.58	0.054	-0.01	24.37	25.50	1.297	0.070	23.0
Right cheek with Intra-band CA	20	QPSK 1_0	38099/2604.9	1:1.58	0.071	-0.12	24.29	25.50	1.321	0.094	23.0
		QPSK 1_99	37901/2585.1								
Head Test Data (50%RB) DSI1											
Left cheek	20	QPSK 50_0	38000/2595	1:1.58	0.054	-0.01	23.58	24.50	1.236	0.066	23.0
Left tilted	20	QPSK 50_0	38000/2595	1:1.58	0.034	0.09	23.58	24.50	1.236	0.042	23.0
Right cheek	20	QPSK 50_0	38000/2595	1:1.58	0.064	0.19	23.58	24.50	1.236	0.079	23.0
Right tilted	20	QPSK 50_0	38000/2595	1:1.58	0.043	0.03	23.58	24.50	1.236	0.053	23.0
Body worn Test data (Separate 15mm 1RB) DSI4											
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.169	0.03	24.37	25.50	1.297	0.219	23.0
Back side	20	QPSK 1_0	38000/2595	1:1.58	0.235	-0.04	24.37	25.50	1.297	0.305	23.0
Back side with Intra-band CA	20	QPSK 1_0	38099/2604.9	1:1.58	0.228	0.10	24.29	25.50	1.321	0.301	23.0
		QPSK 1_99	37901/2585.1								
Body worn Test data (Separate 15mm 50%RB) DSI4											
Front side	20	QPSK 50_0	38000/2595	1:1.58	0.138	-0.04	23.58	24.50	1.236	0.171	23.0
Back side	20	QPSK 50_0	38000/2595	1:1.58	0.176	-0.04	23.58	24.50	1.236	0.218	23.0
Hotspot Test data (Separate 10mm 1RB) DSI5											
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.246	0.16	24.37	25.50	1.297	0.319	23.0
Back side	20	QPSK 1_0	38000/2595	1:1.58	0.420	-0.13	24.37	25.50	1.297	0.545	23.0
Back side-Sample2	20	QPSK 1_0	38000/2595	1:1.58	0.416	0.05	24.37	25.50	1.297	0.540	23.0
Back side-Sample3	20	QPSK 1_0	38000/2595	1:1.58	0.411	0.02	24.37	25.50	1.297	0.533	23.0
Left side	20	QPSK 1_0	38000/2595	1:1.58	0.065	-0.14	24.37	25.50	1.297	0.084	23.0
Right side	20	QPSK 1_0	38000/2595	1:1.58	0.085	0.01	24.37	25.50	1.297	0.110	23.0
Bottom side	20	QPSK 1_0	38000/2595	1:1.58	0.368	-0.09	24.37	25.50	1.297	0.477	23.0
Back side with Intra-band CA	20	QPSK 1_0	38099/2604.9	1:1.58	0.396	-0.15	24.29	25.50	1.321	0.523	23.0
		QPSK 1_99	37901/2585.1								
Hotspot Test data (Separate 10mm 50%RB) DSI5											
Front side	20	QPSK 50_0	38000/2595	1:1.58	0.202	0.11	23.58	24.50	1.236	0.249	23.0
Back side	20	QPSK 50_0	38000/2595	1:1.58	0.328	-0.01	23.58	24.50	1.236	0.405	23.0
Left side	20	QPSK 50_0	38000/2595	1:1.58	0.051	-0.12	23.58	24.50	1.236	0.063	23.0
Right side	20	QPSK 50_0	38000/2595	1:1.58	0.064	-0.15	23.58	24.50	1.236	0.079	23.0
Bottom side	20	QPSK 50_0	38000/2595	1:1.58	0.276	0.03	23.58	24.50	1.236	0.341	23.0
Ant 2 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI1											
Left cheek	20	QPSK 1_0	38000/2595	1:1.58	0.321	0.14	18.93	20.00	1.279	0.411	23.0
Left tilted	20	QPSK 1_0	38000/2595	1:1.58	0.401	-0.17	18.93	20.00	1.279	0.513	23.0
Right cheek	20	QPSK 1_0	38000/2595	1:1.58	0.438	0.17	18.93	20.00	1.279	0.560	23.0
Right tilted	20	QPSK 1_0	38000/2595	1:1.58	0.670	-0.06	18.93	20.00	1.279	0.857	23.0

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Right tilted-Sample2	20	QPSK 1_0	38000/2595	1:1.58	0.662	0.13	18.93	20.00	1.279	0.847	23.0
Right tilted-Sample3	20	QPSK 1_0	38000/2595	1:1.58	0.656	0.02	18.93	20.00	1.279	0.839	23.0
Right tilted with Intra-band CA	20	QPSK 1_0	38099/2604.9	1:1.58	0.653	0.03	18.85	20.00	1.303	0.851	23.0
		QPSK 1_99	37901/2585.1								
Head Test Data (50%RB) DSI1											
Left cheek	20	QPSK 50_0	38000/2595	1:1.58	0.242	0.15	18.78	20.00	1.324	0.320	23.0
Left tilted	20	QPSK 50_0	38000/2595	1:1.58	0.316	-0.04	18.78	20.00	1.324	0.418	23.0
Right cheek	20	QPSK 50_0	38000/2595	1:1.58	0.330	-0.03	18.78	20.00	1.324	0.437	23.0
Right tilted	20	QPSK 50_0	38000/2595	1:1.58	0.528	0.11	18.78	20.00	1.324	0.699	23.0
Head Test Data (100%RB) DSI1											
Right tilted	20	QPSK 100_0	38000/2595	1:1.58	0.535	0.15	18.69	20.00	1.352	0.723	23.0
Body worn Test data (Separate 15mm 1RB) DSI4											
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.154	0.14	24.39	25.50	1.291	0.199	23.0
Back side	20	QPSK 1_0	38000/2595	1:1.58	0.242	-0.04	24.39	25.50	1.291	0.312	23.0
Back side-Sample2	20	QPSK 1_0	38000/2595	1:1.58	0.238	0.01	24.39	25.50	1.291	0.307	23.0
Back side-Sample3	20	QPSK 1_0	38000/2595	1:1.58	0.232	0.02	24.39	25.50	1.291	0.300	23.0
Back side with Intra-band CA	20	QPSK 1_0	38099/2604.9	1:1.58	0.233	-0.19	24.33	25.50	1.309	0.305	23.0
		QPSK 1_99	37901/2585.1								
Body worn Test data (Separate 15mm 50%RB) DSI4											
Front side	20	QPSK 50_0	38000/2595	1:1.58	0.116	-0.09	23.58	24.50	1.236	0.143	23.0
Back side	20	QPSK 50_0	38000/2595	1:1.58	0.191	-0.14	23.58	24.50	1.236	0.236	23.0
Hotspot Test data (Separate 10mm 1RB) DSI5											
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.107	-0.18	18.93	20.00	1.279	0.137	23.0
Back side	20	QPSK 1_0	38000/2595	1:1.58	0.183	-0.16	18.93	20.00	1.279	0.234	23.0
Left side	20	QPSK 1_0	38000/2595	1:1.58	0.055	-0.18	18.93	20.00	1.279	0.070	23.0
Top side	20	QPSK 1_0	38000/2595	1:1.58	0.282	0.06	18.93	20.00	1.279	0.361	23.0
Top side with Intra-band CA	20	QPSK 1_0	38099/2604.9	1:1.58	0.269	0.19	18.85	20.00	1.303	0.351	23.0
		QPSK 1_99	37901/2585.1								
Hotspot Test data (Separate 10mm 50%RB) DSI5											
Front side	20	QPSK 50_0	38000/2595	1:1.58	0.102	-0.02	18.78	20.00	1.324	0.135	23.0
Back side	20	QPSK 50_0	38000/2595	1:1.58	0.174	-0.12	18.78	20.00	1.324	0.230	23.0
Left side	20	QPSK 50_0	38000/2595	1:1.58	0.052	-0.05	18.78	20.00	1.324	0.069	23.0
Top side	20	QPSK 50_0	38000/2595	1:1.58	0.268	0.07	18.78	20.00	1.324	0.355	23.0
Ant 3 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI1											
Left cheek	20	QPSK 1_0	38000/2595	1:1.58	0.241	-0.08	19.62	20.00	1.091	0.263	23.0
Left tilted	20	QPSK 1_0	38000/2595	1:1.58	0.107	-0.01	19.62	20.00	1.091	0.117	23.0
Right cheek	20	QPSK 1_0	38000/2595	1:1.58	0.567	-0.10	19.62	20.00	1.091	0.619	23.0
Right tilted	20	QPSK 1_0	38000/2595	1:1.58	0.290	0.10	19.62	20.00	1.091	0.317	23.0
Right cheek with Intra-band CA	20	QPSK 1_0	38099/2604.9	1:1.58	0.545	-0.05	19.58	20.00	1.102	0.600	23.0
		QPSK 1_99	37901/2585.1								
Head Test Data (50%RB) DSI1											
Left cheek	20	QPSK 50_0	38000/2595	1:1.58	0.224	0.18	19.55	20.00	1.109	0.248	23.0
Left tilted	20	QPSK 50_0	38000/2595	1:1.58	0.084	0.05	19.55	20.00	1.109	0.093	23.0
Right cheek	20	QPSK 50_0	38000/2595	1:1.58	0.549	0.13	19.55	20.00	1.109	0.609	23.0
Right tilted	20	QPSK 50_0	38000/2595	1:1.58	0.276	0.13	19.55	20.00	1.109	0.306	23.0
Body worn Test data (Separate 15mm 1RB) DSI4											
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.198	-0.18	21.45	22.00	1.135	0.225	23.0



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Back side	20	QPSK 1_0	38000/2595	1:1.58	0.260	0.15	21.45	22.00	1.135	0.295	23.0
Back side with Intra-band CA	20	QPSK 1_0	38099/2604.9	1:1.58	0.249	0.04	21.43	22.00	1.140	0.284	23.0
		QPSK 1_99	37901/2585.1								
Body worn Test data (Separate 15mm 50%RB) DS14											
Front side	20	QPSK 50_0	38000/2595	1:1.58	0.174	0.01	20.56	21.00	1.107	0.193	23.0
Back side	20	QPSK 50_0	38000/2595	1:1.58	0.242	-0.14	20.56	21.00	1.107	0.268	23.0
Hotspot Test data (Separate 10mm 1RB) DS15											
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.198	-0.18	21.45	22.00	1.135	0.225	23.0
Back side	20	QPSK 1_0	38000/2595	1:1.58	0.260	0.15	21.45	22.00	1.135	0.295	23.0
Left side	20	QPSK 1_0	38000/2595	1:1.58	0.154	0.11	21.45	22.00	1.135	0.175	23.0
Top side	20	QPSK 1_0	38000/2595	1:1.58	0.091	0.05	21.45	22.00	1.135	0.103	23.0
Top side with Intra-band CA	20	QPSK 1_0	38099/2604.9	1:1.58	0.249	0.04	21.43	22.00	1.140	0.284	23.0
		QPSK 1_99	37901/2585.1								
Hotspot Test data (Separate 10mm 50%RB) DS15											
Front side	20	QPSK 50_0	38000/2595	1:1.58	0.174	0.01	20.56	21.00	1.107	0.193	23.0
Back side	20	QPSK 50_0	38000/2595	1:1.58	0.242	-0.14	20.56	21.00	1.107	0.268	23.0
Left side	20	QPSK 50_0	38000/2595	1:1.58	0.133	-0.13	20.56	21.00	1.107	0.147	23.0
Top side	20	QPSK 50_0	38000/2595	1:1.58	0.074	0.04	20.56	21.00	1.107	0.082	23.0

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8.3.12 SAR Result of LTE Band 41

LTE Band 41 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI1											
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.064	0.17	24.46	25.50	1.271	0.081	23.0
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.038	0.09	24.46	25.50	1.271	0.048	23.0
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.074	0.04	24.46	25.50	1.271	0.094	23.0
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.053	0.17	24.46	25.50	1.271	0.067	23.0
Head Test Data (50%RB) DSI1											
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.051	0.13	23.56	24.50	1.242	0.064	23.0
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.030	-0.15	23.56	24.50	1.242	0.038	23.0
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.059	0.14	23.56	24.50	1.242	0.074	23.0
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.042	0.09	23.56	24.50	1.242	0.053	23.0
Body worn Test data (Separate 15mm 1RB) DSI4											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.165	-0.18	24.46	25.50	1.271	0.210	23.0
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.233	-0.15	24.46	25.50	1.271	0.296	23.0
Body worn Test data (Separate 15mm 50%RB) DSI4											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.131	0.09	23.56	24.50	1.242	0.163	23.0
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.179	-0.09	23.56	24.50	1.242	0.222	23.0
Hotspot Test data (Separate 10mm 1RB) DSI5											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.251	-0.07	24.46	25.50	1.271	0.319	23.0
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.425	-0.07	24.46	25.50	1.271	0.540	23.0
Back side-Sample2	20	QPSK 1_0	40620/2593	1:1.58	0.415	0.03	24.46	25.50	1.271	0.527	23.0
Back side-Sample3	20	QPSK 1_0	40620/2593	1:1.58	0.421	-0.01	24.46	25.50	1.271	0.535	23.0
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.060	0.11	24.46	25.50	1.271	0.076	23.0
Right side	20	QPSK 1_0	40620/2593	1:1.58	0.088	0.09	24.46	25.50	1.271	0.112	23.0
Bottom side	20	QPSK 1_0	40620/2593	1:1.58	0.368	-0.04	24.46	25.50	1.271	0.468	23.0
Hotspot Test data (Separate 10mm 50%RB) DSI5											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.206	0.06	23.56	24.50	1.242	0.256	23.0
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.332	-0.13	23.56	24.50	1.242	0.412	23.0
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.047	0.15	23.56	24.50	1.242	0.059	23.0
Right side	20	QPSK 50_0	40620/2593	1:1.58	0.066	-0.17	23.56	24.50	1.242	0.082	23.0
Bottom side	20	QPSK 50_0	40620/2593	1:1.58	0.276	-0.08	23.56	24.50	1.242	0.343	23.0
Ant 2 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI1											
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.290	-0.09	18.91	20.00	1.285	0.373	23.0
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.361	-0.09	18.91	20.00	1.285	0.464	23.0
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.408	-0.01	18.91	20.00	1.285	0.524	23.0
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.612	-0.10	18.91	20.00	1.285	0.787	23.0
Right tilted-Sample2	20	QPSK 1_0	40620/2593	1:1.58	0.608	0.03	18.91	20.00	1.285	0.781	23.0
Right tilted-Sample3	20	QPSK 1_0	40620/2593	1:1.58	0.603	0.14	18.91	20.00	1.285	0.775	23.0
Head Test Data (50%RB) DSI1											
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.223	0.11	18.81	20.00	1.315	0.293	23.0
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.274	0.15	18.81	20.00	1.315	0.360	23.0
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.335	-0.19	18.81	20.00	1.315	0.441	23.0
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.483	0.18	18.81	20.00	1.315	0.635	23.0
Body worn Test data (Separate 15mm 1RB) DSI4											

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Front side	20	QPSK 1_0	40620/2593	1:1.58	0.150	-0.16	24.35	25.50	1.303	0.195	23.0
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.235	-0.09	24.35	25.50	1.303	0.306	23.0
Back side-Sample2	20	QPSK 1_0	40620/2593	1:1.58	0.229	0.03	24.35	25.50	1.303	0.298	23.0
Back side-Sample3	20	QPSK 1_0	40620/2593	1:1.58	0.231	0.02	24.35	25.50	1.303	0.301	23.0
Body worn Test data (Separate 15mm 50%RB) DSI4											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.123	0.02	23.59	24.50	1.233	0.152	23.0
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.188	0.15	23.59	24.50	1.233	0.232	23.0
Hotspot Test data (Separate 10mm 1RB) DSI5											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.103	-0.03	18.91	20.00	1.285	0.132	23.0
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.183	0.15	18.91	20.00	1.285	0.235	23.0
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.051	0.03	18.91	20.00	1.285	0.066	23.0
Top side	20	QPSK 1_0	40620/2593	1:1.58	0.283	0.10	18.91	20.00	1.285	0.364	23.0
Hotspot Test data (Separate 10mm 50%RB) DSI5											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.084	-0.03	18.81	20.00	1.315	0.111	23.0
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.143	0.15	18.81	20.00	1.315	0.188	23.0
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.040	0.02	18.81	20.00	1.315	0.053	23.0
Top side	20	QPSK 50_0	40620/2593	1:1.58	0.212	0.03	18.81	20.00	1.315	0.279	23.0
Ant 3 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI1											
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.228	-0.07	19.65	20.00	1.084	0.247	23.0
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.118	-0.06	19.65	20.00	1.084	0.128	23.0
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.567	0.14	19.65	20.00	1.084	0.615	23.0
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.279	-0.18	19.65	20.00	1.084	0.302	23.0
Head Test Data (50%RB) DSI1											
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.211	-0.14	19.62	20.00	1.091	0.230	23.0
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.109	0.15	19.62	20.00	1.091	0.119	23.0
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.542	-0.05	19.62	20.00	1.091	0.592	23.0
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.262	-0.13	19.62	20.00	1.091	0.286	23.0
Body worn Test data (Separate 15mm 1RB) DSI4											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.203	-0.19	21.75	22.00	1.059	0.215	23.0
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.268	0.07	21.75	22.00	1.059	0.284	23.0
Body worn Test data (Separate 15mm 50%RB) DSI4											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.169	-0.14	20.83	21.00	1.040	0.176	23.0
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.214	0.03	20.83	21.00	1.040	0.223	23.0
Hotspot Test data (Separate 10mm 1RB) DSI5											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.203	-0.19	21.75	22.00	1.059	0.215	23.0
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.268	0.07	21.75	22.00	1.059	0.284	23.0
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.148	-0.09	21.75	22.00	1.059	0.157	23.0
Top side	20	QPSK 1_0	40620/2593	1:1.58	0.081	0.01	21.75	22.00	1.059	0.086	23.0
Hotspot Test data (Separate 10mm 50%RB) DSI5											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.169	-0.14	20.83	21.00	1.040	0.176	23.0
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.214	0.03	20.83	21.00	1.040	0.223	23.0
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.089	-0.02	20.83	21.00	1.040	0.093	23.0
Top side	20	QPSK 50_0	40620/2593	1:1.58	0.054	-0.13	20.83	21.00	1.040	0.056	23.0

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8.3.13 SAR Result of LTE Band 66

LTE Band 66 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI1											
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.082	0.12	24.56	25.50	1.242	0.102	23.1
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.040	-0.17	24.56	25.50	1.242	0.050	23.1
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.059	0.19	24.56	25.50	1.242	0.073	23.1
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.040	-0.02	24.56	25.50	1.242	0.050	23.1
Head Test Data (50%RB) DSI1											
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.066	-0.02	23.68	24.50	1.208	0.079	23.1
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.032	0.03	23.68	24.50	1.208	0.039	23.1
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.047	-0.08	23.68	24.50	1.208	0.057	23.1
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.032	-0.12	23.68	24.50	1.208	0.039	23.1
Body worn Test data (Separate 15mm 1RB) DSI4											
Front side	20	QPSK 1_0	132322/1745	1:1	0.233	0.14	24.56	25.50	1.242	0.289	23.1
Back side	20	QPSK 1_0	132322/1745	1:1	0.512	-0.13	24.56	25.50	1.242	0.636	23.1
Back side-Sample2	20	QPSK 1_0	132322/1745	1:1	0.508	0.03	24.56	25.50	1.242	0.631	23.1
Back side-Sample3	20	QPSK 1_0	132322/1745	1:1	0.501	0.01	24.56	25.50	1.242	0.622	23.1
Body worn Test data (Separate 15mm 50%RB) DSI4											
Front side	20	QPSK 50_0	132322/1745	1:1	0.174	0.01	23.68	24.50	1.208	0.210	23.1
Back side	20	QPSK 50_0	132322/1745	1:1	0.411	-0.01	23.68	24.50	1.208	0.496	23.1
Hotspot Test data (Separate 10mm 1RB) DSI5											
Front side	20	QPSK 1_0	132322/1745	1:1	0.153	0.08	20.64	21.50	1.219	0.187	23.1
Back side	20	QPSK 1_0	132322/1745	1:1	0.395	0.02	20.64	21.50	1.219	0.482	23.1
Left side	20	QPSK 1_0	132322/1745	1:1	0.079	-0.03	20.64	21.50	1.219	0.096	23.1
Right side	20	QPSK 1_0	132322/1745	1:1	0.070	-0.02	20.64	21.50	1.219	0.085	23.1
Bottom side	20	QPSK 1_0	132322/1745	1:1	0.496	0.02	20.64	21.50	1.219	0.605	23.1
Bottom side-Sample2	20	QPSK 1_0	132322/1745	1:1	0.482	0.16	20.64	21.50	1.219	0.588	23.1
Bottom side-Sample3	20	QPSK 1_0	132322/1745	1:1	0.491	0.02	20.64	21.50	1.219	0.599	23.1
Hotspot Test data (Separate 10mm 50%RB) DSI5											
Front side	20	QPSK 50_0	132322/1745	1:1	0.122	-0.11	20.49	21.50	1.262	0.154	23.1
Back side	20	QPSK 50_0	132322/1745	1:1	0.320	0.09	20.49	21.50	1.262	0.404	23.1
Left side	20	QPSK 50_0	132322/1745	1:1	0.063	-0.10	20.49	21.50	1.262	0.079	23.1
Right side	20	QPSK 50_0	132322/1745	1:1	0.056	-0.03	20.49	21.50	1.262	0.071	23.1
Bottom side	20	QPSK 50_0	132322/1745	1:1	0.402	-0.05	20.49	21.50	1.262	0.507	23.1
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) DSI2											
Back side	20	QPSK 1_0	132322/1745	1:1	1.660	-0.07	20.64	21.50	1.219	2.024	23.1
Bottom side	20	QPSK 1_0	132322/1745	1:1	2.030	0.02	20.64	21.50	1.219	2.475	23.1
Bottom side-Repeat SAR	20	QPSK 1_0	132322/1745	1:1	1.950	0.06	20.64	21.50	1.219	2.377	23.1
Bottom side-Sample2	20	QPSK 1_0	132322/1745	1:1	1.880	0.14	20.64	21.50	1.219	2.292	23.1
Bottom side-Sample3	20	QPSK 1_0	132322/1745	1:1	1.910	0.02	20.64	21.50	1.219	2.328	23.1
Bottom side	20	QPSK 1_0	132072/1720	1:1	1.890	-0.19	20.55	21.50	1.245	2.352	23.1
Bottom side	20	QPSK 1_0	132572/1770	1:1	1.930	0.10	20.57	21.50	1.239	2.391	23.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) DSI2											
Back side	20	QPSK 50_0	132322/1745	1:1	1.590	0.06	20.49	21.50	1.262	2.006	23.1

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Bottom side	20	QPSK 50_0	132322/1745	1:1	1.880	0.16	20.49	21.50	1.262	2.372	23.1
Bottom side	20	QPSK 50_0	132072/1720	1:1	1.840	-0.16	20.34	21.50	1.306	2.403	23.1
Bottom side	20	QPSK 50_0	132572/1770	1:1	1.810	0.15	20.38	21.50	1.294	2.342	23.1
Product specific 10g SAR Test data (Separate 0mm 100%RB) DSII2											
Bottom side	20	QPSK 100_0	132322/1745	1:1	1.850	0.08	20.45	21.50	1.274	2.356	23.1
Product specific 10g SAR Test data (1RB) DSII4											
Back side-15mm	20	QPSK 1_0	132322/1745	1:1	0.247	-0.08	24.56	25.50	1.242	0.307	23.1
Bottom side-15mm	20	QPSK 1_0	132322/1745	1:1	0.336	-0.04	24.56	25.50	1.242	0.417	23.1
Product specific 10g SAR Test data (50%RB) DSII4											
Back side-15mm	20	QPSK 50_0	132322/1745	1:1	0.211	0.05	23.68	24.50	1.208	0.255	23.1
Bottom side-15mm	20	QPSK 50_0	132322/1745	1:1	0.284	0.01	23.68	24.50	1.208	0.343	23.1
Ant 2 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSII1											
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.415	-0.10	20.07	21.00	1.239	0.514	23.1
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.490	0.13	20.07	21.00	1.239	0.607	23.1
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.634	0.01	20.07	21.00	1.239	0.785	23.1
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.758	-0.12	20.07	21.00	1.239	0.939	23.1
Right tilted-Sample2	20	QPSK 1_0	132322/1745	1:1	0.746	0.02	20.07	21.00	1.239	0.924	23.1
Right tilted-Sample3	20	QPSK 1_0	132322/1745	1:1	0.751	-0.03	20.07	21.00	1.239	0.930	23.1
Right tilted-Repeat SAR	20	QPSK 1_0	132322/1745	1:1	0.749	0.04	20.07	21.00	1.239	0.928	23.1
Right tilted	20	QPSK 1_0	132072/1720	1:1	0.732	-0.12	19.93	21.00	1.279	0.937	23.1
Right tilted	20	QPSK 1_0	132572/1770	1:1	0.735	-0.04	19.95	21.00	1.274	0.936	23.1
Head Test Data (50%RB) DSII1											
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.332	0.06	19.89	21.00	1.291	0.429	23.1
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.392	-0.02	19.89	21.00	1.291	0.506	23.1
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.507	-0.02	19.89	21.00	1.291	0.655	23.1
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.606	-0.02	19.89	21.00	1.291	0.783	23.1
Head Test Data (100%RB) DSII1											
Right tilted	20	QPSK 100_0	132322/1745	1:1	0.596	-0.04	19.61	21.00	1.377	0.821	23.1
Body worn Test data (Separate 15mm 1RB) DSII4											
Front side	20	QPSK 1_0	132322/1745	1:1	0.260	0.01	24.38	25.50	1.294	0.336	23.1
Back side	20	QPSK 1_0	132322/1745	1:1	0.405	0.06	24.38	25.50	1.294	0.524	23.1
Body worn Test data (Separate 15mm 50%RB) DSII4											
Front side	20	QPSK 50_0	132322/1745	1:1	0.203	-0.04	23.31	24.50	1.315	0.267	23.1
Back side	20	QPSK 50_0	132322/1745	1:1	0.316	-0.15	23.31	24.50	1.315	0.416	23.1
Hotspot Test data (Separate 10mm 1RB) DSII5											
Front side	20	QPSK 1_0	132322/1745	1:1	0.177	-0.18	20.07	21.00	1.239	0.219	23.1
Back side	20	QPSK 1_0	132322/1745	1:1	0.283	0.02	20.07	21.00	1.239	0.351	23.1
Left side	20	QPSK 1_0	132322/1745	1:1	0.044	0.15	20.07	21.00	1.239	0.055	23.1
Top side	20	QPSK 1_0	132322/1745	1:1	0.411	0.14	20.07	21.00	1.239	0.509	23.1
Hotspot Test data (Separate 10mm 50%RB) DSII5											
Front side	20	QPSK 50_0	132322/1745	1:1	0.142	0.08	19.89	21.00	1.291	0.183	23.1
Back side	20	QPSK 50_0	132322/1745	1:1	0.226	-0.03	19.89	21.00	1.291	0.292	23.1
Left side	20	QPSK 50_0	132322/1745	1:1	0.035	0.04	19.89	21.00	1.291	0.045	23.1
Top side	20	QPSK 50_0	132322/1745	1:1	0.329	0.10	19.89	21.00	1.291	0.425	23.1
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) DSII3											



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Top side	20	QPSK 1_0	132322/1745	1:1	1.520	0.14	19.88	21.00	1.294	1.967	23.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) DSI3											
Top side	20	QPSK 50_0	132322/1745	1:1	1.450	-0.14	19.84	21.00	1.306	1.894	23.1
Product specific 10g SAR Test data (1RB) DSI4											
Top side-15mm	20	QPSK 1_0	132322/1745	1:1	0.271	0.19	24.31	25.50	1.315	0.356	23.1
Product specific 10g SAR Test data (50%RB) DSI4											
Top side-15mm	20	QPSK 50_0	132322/1745	1:1	0.232	0.14	23.36	24.50	1.300	0.302	23.1
Ant 3 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI1											
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.267	-0.13	18.99	20.00	1.262	0.337	23.1
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.201	-0.10	18.99	20.00	1.262	0.254	23.1
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.600	-0.05	18.99	20.00	1.262	0.757	23.1
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.356	0.01	18.99	20.00	1.262	0.449	23.1
Head Test Data (50%RB) DSI1											
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.244	0.11	18.81	20.00	1.315	0.321	23.1
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.184	0.19	18.81	20.00	1.315	0.242	23.1
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.575	0.05	18.81	20.00	1.315	0.756	23.1
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.341	-0.15	18.81	20.00	1.315	0.448	23.1
Body worn Test data (Separate 15mm 1RB) DSI4											
Front side	20	QPSK 1_0	132322/1745	1:1	0.155	0.09	20.88	22.00	1.294	0.201	23.1
Back side	20	QPSK 1_0	132322/1745	1:1	0.233	-0.03	20.88	22.00	1.294	0.302	23.1
Body worn Test data (Separate 15mm 50%RB) DSI4											
Front side	20	QPSK 50_0	132322/1745	1:1	0.114	0.14	19.83	21.00	1.309	0.149	23.1
Back side	20	QPSK 50_0	132322/1745	1:1	0.216	0.02	19.83	21.00	1.309	0.283	23.1
Hotspot Test data (Separate 10mm 1RB) DSI5											
Front side	20	QPSK 1_0	132322/1745	1:1	0.184	-0.08	20.55	21.50	1.245	0.229	23.1
Back side	20	QPSK 1_0	132322/1745	1:1	0.297	0.03	20.55	21.50	1.245	0.370	23.1
Left side	20	QPSK 1_0	132322/1745	1:1	0.219	0.13	20.55	21.50	1.245	0.273	23.1
Top side	20	QPSK 1_0	132322/1745	1:1	0.099	0.02	20.55	21.50	1.245	0.123	23.1
Hotspot Test data (Separate 10mm 50%RB) DSI5											
Front side	20	QPSK 50_0	132322/1745	1:1	0.133	0.10	19.87	21.00	1.297	0.173	23.1
Back side	20	QPSK 50_0	132322/1745	1:1	0.229	0.08	19.87	21.00	1.297	0.297	23.1
Left side	20	QPSK 50_0	132322/1745	1:1	0.184	0.19	19.87	21.00	1.297	0.239	23.1
Top side	20	QPSK 50_0	132322/1745	1:1	0.066	-0.12	19.87	21.00	1.297	0.086	23.1

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Bottom side-Repeat SAR	132322/1745	2.030	1.950	1.041	N/A	N/A

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

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

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

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

5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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8.3.14 SAR Result of WIFI 2.4G

Wi-Fi 2.4G SAR Test Record											
Ant4 Test Record chain0											
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 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI1											
Left cheek	802.11g	6/2437	97.20%	1.029	0.460	-0.03	13.86	15.00	1.300	0.615	22.9
Left cheek-Sample2	802.11g	6/2437	97.20%	1.029	0.453	0.06	13.86	15.00	1.300	0.606	22.9
Left cheek-Sample3	802.11g	6/2437	97.20%	1.029	0.455	0.01	13.86	15.00	1.300	0.609	22.9
Left tilted	802.11g	6/2437	97.20%	1.029	0.294	-0.15	13.86	15.00	1.300	0.393	22.9
Right cheek	802.11g	6/2437	97.20%	1.029	0.116	0.07	13.86	15.00	1.300	0.155	22.9
Right tilted	802.11g	6/2437	97.20%	1.029	0.136	-0.18	13.86	15.00	1.300	0.182	22.9
Body worn Test data (Separate 15mm)											
Front side	802.11g	6/2437	97.20%	1.029	0.096	0.02	16.82	18.00	1.312	0.130	22.9
Back side	802.11g	6/2437	97.20%	1.029	0.167	-0.03	16.82	18.00	1.312	0.225	22.9
Back side-Sample2	802.11g	6/2437	97.20%	1.029	0.151	0.09	16.82	18.00	1.312	0.204	22.9
Back side-Sample3	802.11g	6/2437	97.20%	1.029	0.163	-0.11	16.82	18.00	1.312	0.220	22.9
Hotspot Test data (Separate 10mm)											
Front side	802.11g	6/2437	97.20%	1.029	0.180	-0.12	16.82	18.00	1.312	0.243	22.9
Back side	802.11g	6/2437	97.20%	1.029	0.310	-0.10	16.82	18.00	1.312	0.418	22.9
Right side	802.11g	6/2437	97.20%	1.029	0.370	-0.05	16.82	18.00	1.312	0.499	22.9
Right side-Sample2	802.11g	6/2437	97.20%	1.029	0.363	0.04	16.82	18.00	1.312	0.490	22.9
Right side-Sample3	802.11g	6/2437	97.20%	1.029	0.366	0.01	16.82	18.00	1.312	0.494	22.9
Top side	802.11g	6/2437	97.20%	1.029	0.131	0.14	16.82	18.00	1.312	0.177	22.9

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8.3.15 SAR Result of WIFI 5G

Wi-Fi 5G SAR Test Record												
Ant5 Test Record chain0												
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 1-g (W/kg)	Liquid Temp.(°C)	
Head Test Data of U-NII-2A DSI1												
Left cheek	802.11a	52/5260	97.54%	1.025	0.179	-0.17	11.05	12.50	1.396	0.256	23.4	
Left tilted	802.11a	52/5260	97.54%	1.025	0.119	-0.17	11.05	12.50	1.396	0.170	23.4	
Right cheek	802.11a	52/5260	97.54%	1.025	0.055	-0.06	11.05	12.50	1.396	0.079	23.4	
Right tilted	802.11a	52/5260	97.54%	1.025	0.068	-0.17	11.05	12.50	1.396	0.097	23.4	
Head Test Data of U-NII-2C DSI1												
Left cheek	802.11a	116/5580	97.54%	1.025	0.226	0.08	11.08	12.50	1.387	0.321	23.4	
Left cheek-Sample2	802.11a	116/5580	97.54%	1.025	0.218	0.03	11.08	12.50	1.387	0.310	23.4	
Left cheek-Sample3	802.11a	116/5580	97.54%	1.025	0.209	-0.01	11.08	12.50	1.387	0.297	23.4	
Left tilted	802.11a	116/5580	97.54%	1.025	0.124	0.16	11.08	12.50	1.387	0.176	23.4	
Right cheek	802.11a	116/5580	97.54%	1.025	0.058	-0.10	11.08	12.50	1.387	0.082	23.4	
Right tilted	802.11a	116/5580	97.54%	1.025	0.070	0.15	11.08	12.50	1.387	0.100	23.4	
Head Test Data of U-NII-3 DSI1												
Left cheek	802.11a	157/5785	97.54%	1.025	0.204	-0.01	10.96	12.50	1.426	0.298	23.4	
Left tilted	802.11a	157/5785	97.54%	1.025	0.186	-0.13	10.96	12.50	1.426	0.272	23.4	
Right cheek	802.11a	157/5785	97.54%	1.025	0.092	0.12	10.96	12.50	1.426	0.134	23.4	
Right tilted	802.11a	157/5785	97.54%	1.025	0.042	-0.04	10.96	12.50	1.426	0.061	23.4	
Body worn Test data of U-NII-2A (Separate 15mm)												
Front side	802.11a	52/5260	97.54%	1.025	0.078	-0.12	18.20	19.50	1.349	0.108	23.4	
Back side	802.11a	52/5260	97.54%	1.025	0.205	0.11	18.20	19.50	1.349	0.284	23.4	
Body worn Test data of U-NII-2C (Separate 15mm)												
Front side	802.11a	116/5580	97.54%	1.025	0.183	0.09	17.85	19.50	1.462	0.274	23.4	
Back side	802.11a	116/5580	97.54%	1.025	0.213	-0.03	17.85	19.50	1.462	0.319	23.4	
Back side-Sample2	802.11a	116/5580	97.54%	1.025	0.208	0.06	17.85	19.50	1.462	0.312	23.4	
Back side-Sample3	802.11a	116/5580	97.54%	1.025	0.201	-0.14	17.85	19.50	1.462	0.301	23.4	
Body worn Test data of U-NII-3 (Separate 15mm)												
Front side	802.11a	157/5785	97.54%	1.025	0.113	0.05	15.86	17.50	1.459	0.169	23.4	
Back side	802.11a	157/5785	97.54%	1.025	0.122	0.06	15.86	17.50	1.459	0.182	23.4	
Hotspot Test data of U-NII-1 (Separate 10mm)												
Front side	802.11a	44/5220	97.54%	1.025	0.087	0.11	17.90	19.50	1.445	0.129	23.4	
Back side	802.11a	44/5220	97.54%	1.025	0.174	-0.05	17.90	19.50	1.445	0.258	23.4	
Back side-Sample2	802.11a	44/5220	97.54%	1.025	0.169	0.03	17.90	19.50	1.445	0.250	23.4	
Back side-Sample3	802.11a	44/5220	97.54%	1.025	0.166	-0.01	17.90	19.50	1.445	0.246	23.4	
Right side	802.11a	44/5220	97.54%	1.025	0.100	-0.18	17.90	19.50	1.445	0.148	23.4	
Top side	802.11a	44/5220	97.54%	1.025	0.155	-0.07	17.90	19.50	1.445	0.230	23.4	
Hotspot Test data of U-NII-3 (Separate 10mm)												
Front side	802.11a	157/5785	97.54%	1.025	0.124	0.02	15.86	17.50	1.459	0.185	23.4	
Back side	802.11a	157/5785	97.54%	1.025	0.094	-0.07	15.86	17.50	1.459	0.141	23.4	
Right side	802.11a	157/5785	97.54%	1.025	0.063	0.05	15.86	17.50	1.459	0.094	23.4	
Top side	802.11a	157/5785	97.54%	1.025	0.086	-0.13	15.86	17.50	1.459	0.129	23.4	
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)	
Product specific 10gSAR Test data of U-NII-2A (Separate 0mm)												



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Front side	802.11a	52/5260	97.54%	1.025	0.516	0.04	18.20	19.50	1.349	0.714	23.4
Back side	802.11a	52/5260	97.54%	1.025	0.209	0.13	18.20	19.50	1.349	0.289	23.4
Right side	802.11a	52/5260	97.54%	1.025	0.181	0.14	18.20	19.50	1.349	0.250	23.4
Top side	802.11a	52/5260	97.54%	1.025	0.918	0.05	18.20	19.50	1.349	1.270	23.4
Top side-Sample2	802.11a	52/5260	97.54%	1.025	0.911	-0.04	18.20	19.50	1.349	1.260	23.4
Top side-Sample3	802.11a	52/5260	97.54%	1.025	0.905	0.14	18.20	19.50	1.349	1.252	23.4
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm)											
Front side	802.11a	116/5580	97.54%	1.025	0.709	-0.14	17.85	19.50	1.462	1.063	23.4
Back side	802.11a	116/5580	97.54%	1.025	0.280	-0.09	17.85	19.50	1.462	0.420	23.4
Right side	802.11a	116/5580	97.54%	1.025	0.312	0.06	17.85	19.50	1.462	0.468	23.4
Top side	802.11a	116/5580	97.54%	1.025	0.796	0.02	17.85	19.50	1.462	1.193	23.4



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8.3.16 SAR Result of BT

Bluetooth SAR Test Record											
Ant4 Test Record											
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 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data											
Left cheek	DH5	39/2441	76.40%	1.309	0.165	-0.01	12.92	14.00	1.282	0.277	22.9
Left cheek-Sample2	DH5	39/2441	76.40%	1.309	0.161	0.02	12.92	14.00	1.282	0.270	22.9
Left cheek-Sample3	DH5	39/2441	76.40%	1.309	0.158	0.01	12.92	14.00	1.282	0.265	22.9
Left tilted	DH5	39/2441	76.40%	1.309	0.073	0.13	12.92	14.00	1.282	0.123	22.9
Right cheek	DH5	39/2441	76.40%	1.309	0.027	0.02	12.92	14.00	1.282	0.045	22.9
Right tilted	DH5	39/2441	76.40%	1.309	0.037	0.17	12.92	14.00	1.282	0.062	22.9
Body worn Test data (Separate 15mm)											
Front side	DH5	39/2441	76.40%	1.309	0.001	0.02	12.92	14.00	1.282	0.002	22.9
Back side	DH5	39/2441	76.40%	1.309	0.026	0.17	12.92	14.00	1.282	0.043	22.9
Back side-Sample2	DH5	39/2441	76.40%	1.309	0.024	0.02	12.92	14.00	1.282	0.040	22.9
Back side-Sample3	DH5	39/2441	76.40%	1.309	0.019	-0.01	12.92	14.00	1.282	0.032	22.9
Hotspot Test data (Separate 10mm)											
Front side	DH5	39/2441	76.40%	1.309	0.030	-0.03	12.92	14.00	1.282	0.050	22.9
Back side	DH5	39/2441	76.40%	1.309	0.064	0.11	12.92	14.00	1.282	0.107	22.9
Right side	DH5	39/2441	76.40%	1.309	0.082	-0.07	12.92	14.00	1.282	0.138	22.9
Right side-Sample2	DH5	39/2441	76.40%	1.309	0.078	0.03	12.92	14.00	1.282	0.131	22.9
Right side-Sample3	DH5	39/2441	76.40%	1.309	0.071	-0.01	12.92	14.00	1.282	0.119	22.9
Top side	DH5	39/2441	76.40%	1.309	0.010	0.06	12.92	14.00	1.282	0.017	22.9



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8.4 Multiple Transmitter Evaluation

8.4.1 Simultaneous SAR test evaluation

No.	Simultaneous Tx Combination	Head	Body-worn	Hotspot	Product Specific 10-g (0mm)
1	WWAN + WLAN 2.4GHz	Yes	Yes	Yes	Yes
2	WWAN + WLAN 5GHz	Yes	Yes	Yes	Yes
3	WWAN + WLAN 5GHz + BT	Yes	Yes	Yes	Yes

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8.4.2 Simultaneous Transmission SAR Summation Scenario

Head:

Test position		SAR _{max} (W/kg)				Summed SAR		
		WWAN	WiFi 2.4G	WiFi 5G	BT			
		1	2	3	4	1+2	1+3	1+3+4
GSM850	Left cheek	0.617	0.615	0.321	0.277	1.232	0.938	1.215
	Left tilted	0.106	0.393	0.272	0.123	0.499	0.378	0.501
	Right cheek	0.558	0.155	0.134	0.045	0.713	0.692	0.737
	Right tilted	0.104	0.182	0.100	0.062	0.286	0.204	0.266
GSM1900	Left cheek	0.368	0.615	0.321	0.277	0.983	0.689	0.966
	Left tilted	0.318	0.393	0.272	0.123	0.711	0.590	0.713
	Right cheek	1.070	0.155	0.134	0.045	1.225	1.204	1.249
	Right tilted	0.739	0.182	0.100	0.062	0.921	0.839	0.901
WCDMA B2	Left cheek	0.493	0.615	0.321	0.277	1.108	0.814	1.091
	Left tilted	0.583	0.393	0.272	0.123	0.976	0.855	0.978
	Right cheek	0.930	0.155	0.134	0.045	1.085	1.064	1.109
	Right tilted	1.094	0.182	0.100	0.062	1.276	1.194	1.256
WCDMA B4	Left cheek	0.525	0.615	0.321	0.277	1.140	0.846	1.123
	Left tilted	0.629	0.393	0.272	0.123	1.022	0.901	1.024
	Right cheek	0.886	0.155	0.134	0.045	1.041	1.020	1.065
	Right tilted	1.027	0.182	0.100	0.062	1.209	1.127	1.189
WCDMA B5	Left cheek	0.856	0.615	0.321	0.277	1.471	1.177	1.454
	Left tilted	0.166	0.393	0.272	0.123	0.559	0.438	0.561
	Right cheek	0.848	0.155	0.134	0.045	1.003	0.982	1.027
	Right tilted	0.174	0.182	0.100	0.062	0.356	0.274	0.336
LTE Band 2	Left cheek	0.525	0.615	0.321	0.277	1.140	0.846	1.123
	Left tilted	0.631	0.393	0.272	0.123	1.024	0.903	1.026
	Right cheek	0.826	0.155	0.134	0.045	0.981	0.960	1.005
	Right tilted	1.038	0.182	0.100	0.062	1.220	1.138	1.200
LTE Band 7	Left cheek	0.532	0.615	0.321	0.277	1.147	0.853	1.130
	Left tilted	0.637	0.393	0.272	0.123	1.030	0.909	1.032
	Right cheek	0.758	0.155	0.134	0.045	0.913	0.892	0.937
	Right tilted	1.048	0.182	0.100	0.062	1.230	1.148	1.210
LTE Band 12(17)	Left cheek	0.553	0.615	0.321	0.277	1.168	0.874	1.151
	Left tilted	0.111	0.393	0.272	0.123	0.504	0.383	0.506
	Right cheek	0.538	0.155	0.134	0.045	0.693	0.672	0.717
	Right tilted	0.107	0.182	0.100	0.062	0.289	0.207	0.269
LTE Band 13	Left cheek	0.957	0.615	0.321	0.277	1.572	1.278	1.555
	Left tilted	0.193	0.393	0.272	0.123	0.586	0.465	0.588
	Right cheek	0.867	0.155	0.134	0.045	1.022	1.001	1.046
	Right tilted	0.166	0.182	0.100	0.062	0.348	0.266	0.328
LTE Band 26(5)	Left cheek	0.355	0.615	0.321	0.277	0.970	0.676	0.953
	Left tilted	0.621	0.393	0.272	0.123	1.014	0.893	1.016
	Right cheek	0.200	0.155	0.134	0.045	0.355	0.334	0.379
	Right tilted	0.138	0.182	0.100	0.062	0.320	0.238	0.300
LTE Band 38	Left cheek	0.309	0.615	0.321	0.277	0.924	0.630	0.907
	Left tilted	0.515	0.393	0.272	0.123	0.908	0.787	0.910
	Right cheek	0.619	0.155	0.134	0.045	0.774	0.753	0.798
	Right tilted	0.857	0.182	0.100	0.062	1.039	0.957	1.019



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LTE Band 41	Left cheek	0.373	0.615	0.321	0.277	0.988	0.694	0.971
	Left tilted	0.464	0.393	0.272	0.123	0.857	0.736	0.859
	Right cheek	0.615	0.155	0.134	0.045	0.770	0.749	0.794
	Right tilted	0.787	0.182	0.100	0.062	0.969	0.887	0.949
LTE Band 66(4)	Left cheek	0.514	0.615	0.321	0.277	1.129	0.835	1.112
	Left tilted	0.607	0.393	0.272	0.123	1.000	0.879	1.002
	Right cheek	0.785	0.155	0.134	0.045	0.940	0.919	0.964
	Right tilted	0.939	0.182	0.100	0.062	1.121	1.039	1.101

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Body-worn:

Test position		SARmax (W/kg)				Summed SAR		
		WWAN	WiFi 2.4G	WiFi 5G	BT			
		1	2	3	4	1+2	1+3	1+3+4
GSM850	Front side	0.161	0.130	0.274	0.002	0.291	0.435	0.437
	Back side	0.216	0.225	0.319	0.043	0.441	0.535	0.578
GSM1900	Front side	0.146	0.130	0.274	0.002	0.276	0.420	0.422
	Back side	0.308	0.225	0.319	0.043	0.533	0.627	0.670
WCDMA B2	Front side	0.350	0.130	0.274	0.002	0.480	0.624	0.626
	Back side	0.796	0.225	0.319	0.043	1.021	1.115	1.158
WCDMA B4	Front side	0.316	0.130	0.274	0.002	0.446	0.590	0.592
	Back side	0.654	0.225	0.319	0.043	0.879	0.973	1.016
WCDMA B5	Front side	0.196	0.130	0.274	0.002	0.326	0.470	0.472
	Back side	0.260	0.225	0.319	0.043	0.485	0.579	0.622
LTE Band 2	Front side	0.385	0.130	0.274	0.002	0.515	0.659	0.661
	Back side	0.849	0.225	0.319	0.043	1.074	1.168	1.211
LTE Band 7	Front side	0.387	0.130	0.274	0.002	0.517	0.661	0.663
	Back side	0.556	0.225	0.319	0.043	0.781	0.875	0.918
LTE Band 12(17)	Front side	0.162	0.130	0.274	0.002	0.292	0.436	0.438
	Back side	0.213	0.225	0.319	0.043	0.438	0.532	0.575
LTE Band 13	Front side	0.175	0.130	0.274	0.002	0.305	0.449	0.451
	Back side	0.257	0.225	0.319	0.043	0.482	0.576	0.619
LTE Band 26(5)	Front side	0.159	0.130	0.274	0.002	0.289	0.433	0.435
	Back side	0.235	0.225	0.319	0.043	0.460	0.554	0.597
LTE Band 38	Front side	0.219	0.130	0.274	0.002	0.349	0.493	0.495
	Back side	0.312	0.225	0.319	0.043	0.537	0.631	0.674
LTE Band 41	Front side	0.210	0.130	0.274	0.002	0.340	0.484	0.486
	Back side	0.306	0.225	0.319	0.043	0.531	0.625	0.668
LTE Band 66(4)	Front side	0.336	0.130	0.274	0.002	0.466	0.610	0.612
	Back side	0.636	0.225	0.319	0.043	0.861	0.955	0.998

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Hotspot:

Test position		SARmax (W/kg)				Summed SAR		
		WWAN	WiFi 2.4G	WiFi 5G	BT			
		1	2	3	4	1+2	1+3	1+3+4
GSM850	Front side	0.276	0.243	0.185	0.050	0.519	0.461	0.511
	Back side	0.454	0.418	0.258	0.107	0.872	0.712	0.819
	Left side	0.487	0.000	0.000	0.000	0.487	0.487	0.487
	Right side	0.116	0.499	0.148	0.138	0.615	0.264	0.402
	Top side	0.001	0.177	0.230	0.017	0.178	0.231	0.248
	Bottom side	0.157	0.000	0.000	0.000	0.157	0.157	0.157
GSM1900	Front side	0.260	0.243	0.185	0.050	0.503	0.445	0.495
	Back side	0.635	0.418	0.258	0.107	1.053	0.893	1.000
	Left side	0.302	0.000	0.000	0.000	0.302	0.302	0.302
	Right side	0.079	0.499	0.148	0.138	0.578	0.227	0.365
	Top side	0.327	0.177	0.230	0.017	0.504	0.557	0.574
	Bottom side	0.977	0.000	0.000	0.000	0.977	0.977	0.977
WCDMA B2	Front side	0.273	0.243	0.185	0.050	0.516	0.458	0.508
	Back side	0.683	0.418	0.258	0.107	1.101	0.941	1.048
	Left side	0.131	0.000	0.000	0.000	0.131	0.131	0.131
	Right side	0.104	0.499	0.148	0.138	0.603	0.252	0.390
	Top side	0.479	0.177	0.230	0.017	0.656	0.709	0.726
	Bottom side	0.868	0.000	0.000	0.000	0.868	0.868	0.868
WCDMA B4	Front side	0.258	0.243	0.185	0.050	0.501	0.443	0.493
	Back side	0.682	0.418	0.258	0.107	1.100	0.940	1.047
	Left side	0.142	0.000	0.000	0.000	0.142	0.142	0.142
	Right side	0.113	0.499	0.148	0.138	0.612	0.261	0.399
	Top side	0.504	0.177	0.230	0.017	0.681	0.734	0.751
	Bottom side	0.695	0.000	0.000	0.000	0.695	0.695	0.695
WCDMA B5	Front side	0.363	0.243	0.185	0.050	0.606	0.548	0.598
	Back side	0.554	0.418	0.258	0.107	0.972	0.812	0.919
	Left side	0.623	0.000	0.000	0.000	0.623	0.623	0.623
	Right side	0.129	0.499	0.148	0.138	0.628	0.277	0.415
	Top side	0.001	0.177	0.230	0.017	0.178	0.231	0.248
	Bottom side	0.199	0.000	0.000	0.000	0.199	0.199	0.199
LTE Band 2	Front side	0.278	0.243	0.185	0.050	0.521	0.463	0.513
	Back side	0.669	0.418	0.258	0.107	1.087	0.927	1.034
	Left side	0.398	0.000	0.000	0.000	0.398	0.398	0.398
	Right side	0.097	0.499	0.148	0.138	0.596	0.245	0.383
	Top side	0.470	0.177	0.230	0.017	0.647	0.700	0.717
	Bottom side	0.863	0.000	0.000	0.000	0.863	0.863	0.863
LTE Band 7	Front side	0.355	0.243	0.185	0.050	0.598	0.540	0.590
	Back side	0.621	0.418	0.258	0.107	1.039	0.879	0.986
	Left side	0.200	0.000	0.000	0.000	0.200	0.200	0.200
	Right side	0.138	0.499	0.148	0.138	0.637	0.286	0.424
	Top side	0.309	0.177	0.230	0.017	0.486	0.539	0.556
	Bottom side	0.515	0.000	0.000	0.000	0.515	0.515	0.515
LTE Band 12(17)	Front side	0.261	0.243	0.185	0.050	0.504	0.446	0.496
	Back side	0.404	0.418	0.258	0.107	0.822	0.662	0.769
	Left side	0.573	0.000	0.000	0.000	0.573	0.573	0.573
	Right side	0.190	0.499	0.148	0.138	0.689	0.338	0.476



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	Top side	0.001	0.177	0.230	0.017	0.178	0.231	0.248
	Bottom side	0.093	0.000	0.000	0.000	0.093	0.093	0.093
LTE Band 13	Front side	0.256	0.243	0.185	0.050	0.499	0.441	0.491
	Back side	0.384	0.418	0.258	0.107	0.802	0.642	0.749
	Left side	0.429	0.000	0.000	0.000	0.429	0.429	0.429
	Right side	0.063	0.499	0.148	0.138	0.562	0.211	0.349
	Top side	0.001	0.177	0.230	0.017	0.178	0.231	0.248
	Bottom side	0.092	0.000	0.000	0.000	0.092	0.092	0.092
LTE Band 26(5)	Front side	0.316	0.243	0.185	0.050	0.559	0.501	0.551
	Back side	0.482	0.418	0.258	0.107	0.900	0.740	0.847
	Left side	0.589	0.000	0.000	0.000	0.589	0.589	0.589
	Right side	0.108	0.499	0.148	0.138	0.607	0.256	0.394
	Top side	0.001	0.177	0.230	0.017	0.178	0.231	0.248
	Bottom side	0.168	0.000	0.000	0.000	0.168	0.168	0.168
LTE Band 38	Front side	0.319	0.243	0.185	0.050	0.562	0.504	0.554
	Back side	0.545	0.418	0.258	0.107	0.963	0.803	0.910
	Left side	0.175	0.000	0.000	0.000	0.175	0.175	0.175
	Right side	0.110	0.499	0.148	0.138	0.609	0.258	0.396
	Top side	0.361	0.177	0.230	0.017	0.538	0.591	0.608
	Bottom side	0.477	0.000	0.000	0.000	0.477	0.477	0.477
LTE Band 41	Front side	0.319	0.243	0.185	0.050	0.562	0.504	0.554
	Back side	0.540	0.418	0.258	0.107	0.958	0.798	0.905
	Left side	0.157	0.000	0.000	0.000	0.157	0.157	0.157
	Right side	0.112	0.499	0.148	0.138	0.611	0.260	0.398
	Top side	0.364	0.177	0.230	0.017	0.541	0.594	0.611
	Bottom side	0.468	0.000	0.000	0.000	0.468	0.468	0.468
LTE Band 66(4)	Front side	0.229	0.243	0.185	0.050	0.472	0.414	0.464
	Back side	0.482	0.418	0.258	0.107	0.900	0.740	0.847
	Left side	0.273	0.000	0.000	0.000	0.273	0.273	0.273
	Right side	0.085	0.499	0.148	0.138	0.584	0.233	0.371
	Top side	0.509	0.177	0.230	0.017	0.686	0.739	0.756
	Bottom side	0.605	0.000	0.000	0.000	0.605	0.605	0.605



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Product Specific 10-g (0mm):

Test position		SARmax (W/kg)		Summed SAR
		WWAN	WiFi 5G	
		1	2	
WCDMA B2	Front side	0.000	1.063	1.063
	Back side	1.738	0.420	2.158
	Left side	0.000	0.000	0.000
	Right side	0.000	0.468	0.468
	Top side	1.875	1.270	3.145
	Bottom side	2.300	0.000	2.300
WCDMA B4	Front side	0.000	1.063	1.063
	Back side	1.748	0.420	2.168
	Left side	0.000	0.000	0.000
	Right side	0.000	0.468	0.468
	Top side	2.494	1.270	3.764
	Bottom side	2.296	0.000	2.296
LTE Band 2	Front side	0.000	1.063	1.063
	Back side	1.734	0.420	2.154
	Left side	0.000	0.000	0.000
	Right side	0.000	0.468	0.468
	Top side	0.000	1.270	1.270
	Bottom side	2.213	0.000	2.213
LTE Band 66	Front side	0.000	1.063	1.063
	Back side	2.024	0.420	2.444
	Left side	0.000	0.000	0.000
	Right side	0.000	0.468	0.468
	Top side	1.967	1.270	3.237
	Bottom side	2.475	0.000	2.475

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9 Equipment list

Test Platform		SPEAG DASY5 Professional				
Description		SAR Test System				
Software Reference		DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)				
Hardware Reference						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration	
<input checked="" type="checkbox"/>	Twin Phantom	SPEAG	SAM8	1824	NCR	NCR
<input checked="" type="checkbox"/>	DAE	SPEAG	DAE4	1484	2024-10-15	2025-10-14
<input checked="" type="checkbox"/>	E-Field Probe	SPEAG	EX3DV4	7767	2024-12-31	2025-12-30
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D750V3	1214	2025-04-01	2028-03-31
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D835V2	4d161	2023-08-25	2026-08-24
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D1750V2	1105	2023-11-03	2026-11-02
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D1950V3	1218	2023-05-04	2026-05-03
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2450V2	922	2023-08-28	2026-08-27
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2600V2	1158	2025-03-31	2028-03-30
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D5GHzV2	1174	2023-08-23	2026-08-22
<input checked="" type="checkbox"/>	Dielectric parameter probes	SPEAG	DAK-3.5	1333	2024-11-18	2025-11-17
<input checked="" type="checkbox"/>	Agilent Network Analyzer	Agilent	E5071C	MY46523590	2024-12-19	2025-12-18
<input checked="" type="checkbox"/>	Universal Radio Communication Tester	R&S	CMW500	111637	2024-09-16	2025-09-15
<input checked="" type="checkbox"/>	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR
<input checked="" type="checkbox"/>	Signal Generator	R&S	SMB100A	182393	2025-02-05	2026-02-04
<input checked="" type="checkbox"/>	Preamplifier	Qiji	YX28980933	202104001	NCR	NCR
<input checked="" type="checkbox"/>	USB Average Power Sensor	Keysight	U2002H	MY5639004	2024-09-10	2025-09-09
<input checked="" type="checkbox"/>	USB Average Power Sensor	Agilent	U2002H	MY48200110	2024-11-21	2025-11-20
<input checked="" type="checkbox"/>	Attenuator	SHX	TS2-3dB	30704	NCR	NCR
<input checked="" type="checkbox"/>	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR
<input checked="" type="checkbox"/>	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR
<input checked="" type="checkbox"/>	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR
<input checked="" type="checkbox"/>	Speed reading thermometer	LKM	DTM3000	NA	2024-09-16	2025-09-15
<input checked="" type="checkbox"/>	Humidity and Temperature Indicator	MingGao	MingGao	NA	2024-09-16	2025-09-15

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



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10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

Appendix E: Conducted RF Output Power

--- End of report ---