

Report No.: KSEM210800147001

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FCC SAR TEST REPORT

KSEM2108001470CR(SZCR2106021395AT) **Application No.:**

Applicant: Dspread Technology(Beijing) Inc

Rm.407,B12C,#10(Universal Business Park) Jiuxiangiao Road,Chaoyang **Address of Applicant:**

District, Beijing

Manufacturer: Dspread Technology(Beijing) Inc

Rm.407,B12C,#10(Universal Business Park) Jiuxiangiao Road,Chaoyang Address of Manufacturer:

District, Beijing

Factory: SHENZHEN WINSTAR PRECISION ELECTRONICS CO., LTD.

The East Side of the Floor 6, Floor 5, Building 28, Shancheng Industrial Park, Shixin Community, Langxin Community, Shiyan Street, Bao'an Address of Factory:

District, Shenzhen City, Guangdong Province, P. R. China

Mobile POS **Product Name:** Model No.(EUT): **QPOS Plus** Trade mark: **DSPREAD**

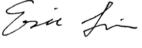
FCC ID: 2AGQ6-QPOS-PLUS FCC 47CFR §2.1093 Standard(s):

Date of Receipt: 2021-08-23

Date of Test: 2021-08-30 to 2021-09-03

Date of Issue: 2021-09-07

Test Result: Pass*



Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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REVISION HISTORY

Revision Record			
Version	Description	Date	Remark
00	Original	2021-09-07	/

Authorized for issue by:		
	Richard. Kong	
	Richard.Kong/ Project Engineer	
	Esia Li	
	Eric.Lin/Reviewer	



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TEST SUMMARY

Maximum Reported SAR(W/kg)	Maximum Reported SAR(W/kg)	
Body	Extremity	
0.469	0.513	
0.374	0.687	
0.443	0.91	
0.391	0.501	
0.573	0.619	
1.019	1.829	
0.24	0.448	
0.209	0.167	
0.017	0.013	
1.6	4	
Maximum Simultaneous Transmission	SAR (W/kg)	
Body	Extremity	
1.245	2.009	
NA	N/A	
0.04	0.1	
	Body 0.469 0.374 0.443 0.391 0.573 1.019 0.24 0.209 0.017 1.6 Maximum Simultaneous Transmission 3 Body 1.245 NA	



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1 General Information

1.1 General Description of EUT

Device Type :	portable device			
Exposure Category:	uncontrolled enviror	nment / general population		
Product Phase:	production unit			
SN:	3030010332103170	0256		
Hardware Version:	2.2.0			
Software Version:	2.2.0			
Antenna Type:	PIFA antenna			
Device Operating Configuration	ns :			
Modulation Mode:	1	< ; LTE: QPSK,16QAM; OFDM; BT: GFSK, π/4DQPSK,	8DPSK	
Antenna Gain:	See Antenna specif	ication		
Device Class:	В			
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12	
	4,tested with power level 5(GSM850)			
Power Class	1,tested with power level 0(GSM1900)			
	3, tested with power control Max Power(LTE Band 2/4/5/7/66)			
	Band	Tx (MHz)	Rx (MHz)	
	GSM 850	824~849	869~894	
	PCS 1900	1850~1910	1930~1990	
	LTE Band 2	1850~1910	1930~1990	
Frequency Bands:	LTE Band 4	1710~1755	2110~2155	
Trequency Bands.	LTE Band 5	824~849	869~894	
	LTE Band 7	2500-2570	2620~2690	
	LTE Band 66	1710~1780	2110~2200	
	WI-FI2.4G	2412~2462	2412~2462	
	Bluetooth	2402~2480	2402~2480	
	Model:	QPOS Plus 1ICP6/60/51		
Battery Information:	Normal Voltage:	DC3.7V		
Dattery information.	Rated capacity:	Rated capacity: 1800mAh		
	Manufacturer	Beijing Guocai Huayang Technology Co., Ltd.		



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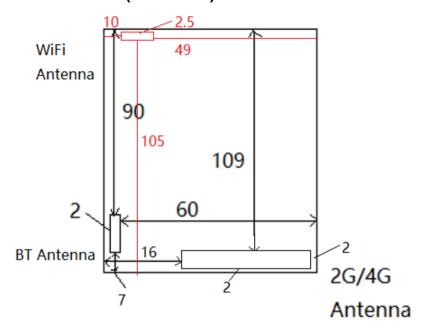
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1.1.1 DUT Antenna Locations(Back View)



The test device is a Mobile POS. The display diagonal dimension is 60mm and the overall diagonal dimension of this device is 127mm.



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1.2 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radio frequency Radiation Exposure Evaluation: Portable Devices
IEEE Std C95.1 – 2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 248227 D01 802.11 Wi-Fi SAR v02r02	SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS
KDB 941225 D05 SAR for LTE Devices v02r05	SAR EVALUATION CONSIDERATIONS FOR LTE DEVICES
KDB447498 D01 General RF Exposure Guidance v06	Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies
KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04	SAR Measurement Requirements for 100 MHz to 6 GHz
KDB 865664 D02 RF Exposure Reporting v01r02	RF Exposure Compliance Reporting and Documentation Considerations



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1.3 RF exposure limits

Human Evnacura	Uncontrolled Environment	Controlled Environment
Human Exposure	General Population	Occupational
Spatial Peak SAR*	4 60 W/km	8.00 W/kg
(Brain*Trunk)	1.60 W/kg	
Spatial Average SAR**	0.08 W/kg	0.40 W/kg
(Whole Body)	0.08 W/kg	
Spatial Peak SAR***	4.00 \\\\\\\	20.00 W/kg
(Hands/Feet/Ankle/Wrist)	4.00 W/kg	

Notes:

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

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



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

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

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



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1.4 Test Location

Company: Compliance Certification Services (Kunshan) Inc.

Address: No.10 Weiye Rd., Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu,

China

Post code: 215300

Telephone: 86-512-57355888 Fax: 86-512-57370818

1.5 Test Facility

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

CNAS (No. CNAS L4354)

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 2541.01)

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

FCC –Designation Number: CN1172

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.ISED (CAB identifier: CN0072)

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory

CAB Identifier: CN0072.

VCCI (Member No.: 1938)

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: : R-20134, R-11600,C-11707, T-11499, G-10216 respectively.



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2 Laboratory Environment

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

Table 1: The Ambient Conditions



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3 SAR Measurements System Configuration

3.1 The SAR Measurement System

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

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

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

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

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

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



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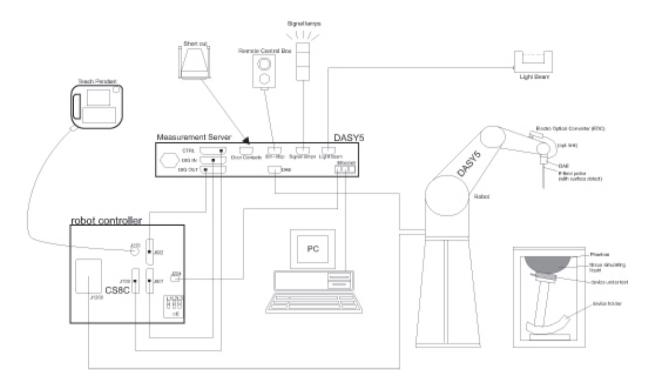
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F-1. SAR Measurement System Configuration

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



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3.2 Isotropic E-field Probe EX3DV4

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



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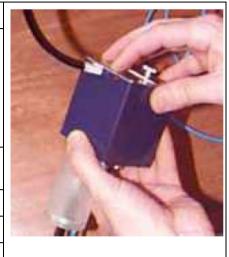


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3.3 Data Acquisition Electronics (DAE)

Model	DAE4
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)
Input Offset Voltage	< 5μV (with auto zero)
Input Bias Current	< 50 f A
Dimensions	60 x 60 x 68 mm



3.4 SAM Twin Phantom

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



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

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



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3.5 ELI Phantom

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



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

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



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3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

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



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3.7 Measurement procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

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

Step 2: Area scan

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

Step 3: Zoom scan

Around this point, a volume of 30mm*30mm*30mm (fine resolution volume scan, zoom scan) was assessed by measuring 5x5x7 points (≤2GHz) and 7x7x7 points (≥2GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

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

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



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			≤3 GHz	> 3 GHz		
Maximum distance from		-	5 ± 1 mm	½·δ·ln(2) ± 0.5 mm		
Maximum probe angle surface normal at the m			30° ± 1°	20° ± 1°		
			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm		
Maximum area scan sp	atial resolt	ntion: Δx_{Area} , Δy_{Area}	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.			
Maximum zoom scan s	patial reso	lution: Δx_{Zoom} , Δy_{Zoom}	≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*		
Maximum zoom scan spatial resolution, normal to phantom surface	uniform	grid: Δz _{Zoom} (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm		
	Δz _{Zoom} (1): between 1 st two points closest to phantom surface		≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm		
	grid	Δz _{Zoom} (n>1): between subsequent points	≤ 1.5·Δz	Zoom(n-1)		
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm		

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

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



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3.7.2 Data Storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DAE3". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/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 ConvFiDiode compression point Dcpi

Device parameters: - Frequency

- Crest factor c

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:

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

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

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

cf = crest factor of exciting field (DASY parameter)

dcp i = diode compression point (DASY parameter)



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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 Vi = compensated signal of channel i

(i = x, y, z)

Normi = sensor sensitivity of channel I

(i = x, y, z)

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

ConvF = sensitivity enhancement in solution

aij = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

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

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

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

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

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

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

With SAR = local specific absorption rate in mW/g

Etot = total field strength in V/m

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

ε= equivalent tissue density in g/cm3

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

$$P_{pwe} = E_{tot}^2 \frac{2}{3770} P_{pwe} = H_{tot}^2 \cdot 37.7$$

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

Etot = total electric field strength in V/m

Htot = total magnetic field strength in A/m



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4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

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

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

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



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4.2 SAR measurement uncertainty

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



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5 Description of Test Position

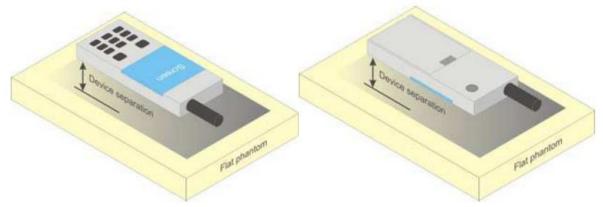
5.1 The Body Test Position

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

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

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



F-1. Test positions for body-worn devices



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5.1.1 Extremity exposure conditions

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

SAR can test the sides near the antenna, the surface of the device should be tested for SAR compliance with the device touching the phantom. The SAR Exclusion Threshold in KDB 447498 D01 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent device surface is used to determine if SAR testing is required for the adjacent surfaces, with the adjacent surface positioned against the phantom and the surface containing the antenna positioned perpendicular to the phantom.

Test Distance for SAR Evaluation

For 10g Extremity SAR the EUT is set directly against the phantom and the test distance is 0mm.

For 1g Body SAR the EUT is set 10mm away from the phantom and the test distance is 10mm.



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6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients	Frequency (MHz)										
(% by weight)	450		835		915		1900		2450		
Tissue Type	Head Body		Head	Body	Head	Body	Head	Body	Head	Body	
Water	38.56	51.16	41.45	52.4	41.05	56.0	54.9	40.4	62.7	73.2	
Salt (NaCl)	3.95	1.49	1.45	1.4	1.35	0.76	0.18	0.5	0.5	0.04	
Sugar	56.32	46.78	56.0	45.0	56.5	41.76	0.0	58.0	0.0	0.0	
HEC	0.98	0.52	1.0	1.0	1.0	1.21	0.0	1.0	0.0	0.0	
Bactericide	0.19	0.05	0.1	0.1	0.1	0.27	0.0	0.1	0.0	0.0	
Triton X-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.8	0.0	
DGBE	0.0	0.0	0.0	0.0	0.0	0.0	44.92	0.0	0.0	26.7	
Dielectric Constant	43.42	58.0	42.54	56.1	42.0	56.8	39.9	54.0	39.8	52.5	
Conductivity (S/m)	0.85	0.83	0.91	0.95	1.0	1.07	1.42	1.45	1.88	1.78	

HSL5GHz is composed of the following ingredients:

Water: 50-65%

Mineral oil: 10-30%

Emulsifiers: 8-25%

Sodium salt: 0-1.5%

MSL5GHz is composed of the following ingredients:

Water: 64-78%
Mineral oil: 11-18%
Emulsifiers: 9-15%
Sodium salt: 2-3%

Table 2: Recipe of Tissue Simulate Liquid



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6.1.2 Test Liquids Confirmation

Simulated tissue liquid parameter confirmation

The dielectric parameters were checked prior to assessment using the SPEAG DAK3.5 dielectric probe kit. The dielectric parameters measured are reported in each correspondent section.

IEEE SCC-34/SC-2 P1528 recommended tissue dielectric parameters

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations and extrapolated according to the head parameters specified in P1528

Target Frequency	He	ad	Body			
(MHz)	εr	σ (S/m)	εr	σ (S/m)		
150	52.3	0.76	61.9	0.80		
300	45.3	0.87	58.2	0.92		
450	43.5	0.87	56.7	0.94		
835	41.5	0.90	55.2	0.97		
900	41.5	0.97	55.0	1.05		
915	41.5	0.98	55.0	1.06		
1450	40.5	1.20	54.0	1.30		
1610	40.3	1.29	53.8	1.40		
1800-2000	40.0	1.40	53.3	1.52		
2450	39.2	1.80	52.7	1.95		
3000	38.5	2.40	52.0	2.73		
5800	35.3	5.27	48.2	6.00		

(ε_r = relative permittivity, σ = conductivity and ρ = 1000 kg/m³)



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6.1.3 Measurement for Tissue Simulate Liquid

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

Tissue Type	Measured Frequency (MHz)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Liquid Temp. (°C)	Date
835 Head	835	0.909	42.04	0.90	41.50	1.00	1.30	±5	22.1	2021/8/30
1800 Head	1800	1.384	40.258	1.40	40.00	-1.14	0.65	±5	22.2	2021/8/31
1900 Head	1900	1.389	40.284	1.40	40.00	-0.79	0.71	±5	22.3	2021/9/1
2600 Head	2600	2.012	39.651	1.96	39.00	2.65	1.67	±5	22.1	2021/9/3

Table 3: Measurement result of Tissue electric parameters



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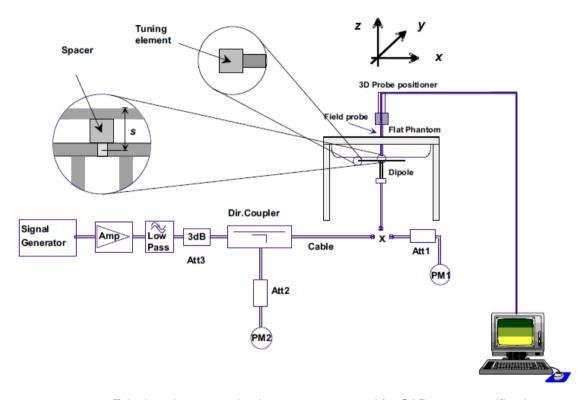


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6.2 SAR System Check

The microwave circuit arrangement for system check is sketched in bellow figure. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table. During the tests, the ambient temperature of the laboratory was in the range 22±2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-2. the microwave circuit arrangement used for SAR system verification



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6.2.1 Justification for Extended SAR Dipole Calibrations

- 1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.
- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 10% of calibrated measurement;
- d) Impedance is within 5Ω from the previous measurement.
- 2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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6.2.2 Summary System Check Result(s)

Validatio	n Kit	Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1w) 1g (W/kg)	Measured SAR (normalized to 1w) 10g (W/kg)	Target SAR (normalized to 1w) (±10%)	Target SAR (normalized to 1w) (±10%) 10-g(W/kg)	Liquid Temp. (℃)	Measured Date
D835V2	Head	2.34	1.52	9.36	6.08	9.41 (8.47~10.35)	6.25 (5.63~6.88)	22.1	2021/8/30
D1800V2	Head	9.51	5.04	38.04	20.16	38.4 (34.56~42.24)	20.2 (18.18~22.22)	22.2	2021/8/31
D1900V2	Head	9.88	5.09	39.52	20.36	39.7 (35.73~43.67)	20.5 (18.45~22.55)	22.3	2021/9/1
D2600V2	Head	13.5	6.23	54	24.92	56.2 (50.58~61.82)	25 (22.50~27.50)	22.1	2021/9/3

Table 4: 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 850 and GSM 1900, a communication link is set up with a base station by air link. Using CMW500 the power lever is set to "5" and "0" in SAR of GSM 850 and GSM 1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5. The EGPRS class is 12 for this EUT, it has at most 4 timeslots in uplink, and at most 4 timeslots in downlink, the maximum total timeslot is 5.

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

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



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7.1.2 Wi-Fi Test Configuration

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

7.1.2.1 Initial Test Position SAR Test Reduction Procedure

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

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

7.1.2.2 Initial Test Configuration Procedures

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

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

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

7.1.2.3 Subsequent Test Configuration Procedures



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

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

7.1.2.4 2.4 GHz Wi-Fi SAR Procedures

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



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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.



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7.1.3 BluetoothTest Configuration

For the Bluetooth SAR tests, a communication link is set up with the test mode software for BT mode test. Bluetooth USES frequency hopping technology to divide the transmitted data into packets and transmit the packets respectively through 79 designated Bluetooth channels, 1MHz Bandwidth, frequency hops at 1600 hops/second per the Bluetooth standard. The Radio Frequency Channel Number (RFCN) is allocated to 0, 39 and 78 respectively in the case of 2402~2480 MHz during the test at each test frequency channel, the EUT is operated at the RF continuous emission mode.



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7.1.4 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

A) Spectrum Plots for RB Configurations

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

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

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

C) A-MPR

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

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

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

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

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

4) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to



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

E) Other channel bandwidth standalone SAR test requirements

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



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8 Test Result

8.1 Measurement of RF Conducted Power

8.1.1 Conducted Power Of GSM

6.1.1 COI	ducted Po	WEI OI	COIVI								
				G	SM 850						
	Burst Output	Power(dl	3m)		Tune	Division		-Average ower(dBr		Tune up	
Cha	nnel	128	190	251	up	Factors	128	190	251		
0000/	1 TX Slot	32.4	32.25	32.05	33	-9.01	23.39	23.24	23.04	23.99	
GPRS/	2 TX Slots	32.28	32.19	31.96	32.5	-6.02	26.26	26.17	25.94	26.48	
EGPRS (GMSK)	3 TX Slots	30.94	30.9	30.67	31.5	-4.26	26.68	26.64	26.41	27.24	
(Olvioit)	4 TX Slots	29.08	28.99	28.63	29.5	-3.01	26.07	25.98	25.62	26.49	
	1 TX Slot	32.42	32.33	32.13	33	-9.01	23.41	23.32	23.12	23.99	
EGPRS	2 TX Slots	32.29	32.24	32.03	32.5	-6.02	26.27	26.22	26.01	26.48	
(8PSK)	3 TX Slots	31.06	31.04	30.8	31.5	-4.26	26.8	26.78	26.54	27.24	
	4 TX Slots	29.17	29.11	28.77	29.5	-3.01	26.16	26.1	25.76	26.49	
				GS	M 1900						
	Burst Output	Power(dl	3m)		Tune	Division		-Average ower(dBr		Tune up	
Cha	nnel	512	661	810	up	Factors	512	661	810		
	1 TX Slot	21.06	20.75	22.27	22.5	-9.01	12.05	11.74	13.26	13.49	
GPRS/	2 TX Slots	20.95	20.75	22.22	22.5	-6.02	14.93	14.73	16.2	16.48	
EGPRS (GMSK)	3 TX Slots	21.3	20.65	22.13	22.5	-4.26	17.04	16.39	17.87	18.24	
(Olvioit)	4 TX Slots	20.32	20.53	22.02	22.5	-3.01	17.31	17.52	19.01	19.49	
	1 TX Slot	21.02	20.97	22.43	22.5	-9.01	12.01	11.96	13.42	13.49	
EGPRS	2 TX Slots	20.87	20.82	22.33	22.5	-6.02	14.85	14.8	16.31	16.48	
(8PSK)	3 TX Slots	20.7	20.69	22.21	22.5	-4.26	16.44	16.43	17.95	18.24	
	4 TX Slots	20.57	20.55	22.05	22.5	-3.01	17.56	17.54	19.04	19.49	

Table 5: Conducted Power Of GSM



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8.1.2 Conducted Power Of LTE

	LTE Ba	nd 2			Conducted	l Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel 18607	Channel 18900	Channel 19193	Tune up
		1	0	23.11	22.89	22.75	24
		1	2	23.09	22.85	22.72	24
		1	5	23.1	22.02	22.86	24
	QPSK	3	0	22.39	21.96	21.67	22.5
		3	2	22.28	22.04	21.85	22.5
		3	3	22.14	22.04	21.91	22.5
4 48411-		6	0	22.06	20.84	20.49	22.5
1.4MHz		1	0	22.18	20.88	20.63	22.5
		1	2	22.14	20.84	20.66	22.5
		1	5	22.21	20.9	20.72	22.5
	16QAM	3	0	21.65	20.97	20.41	22
		3	2	21.62	21.04	20.46	22
		3	3	21.62	21.05	20.51	22
		6	0	20.8	20.25	20.07	22
Dan duri dili	Madulatian	DD sins	DD offeet	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	18615	18900	19185	Tune up
		1	0	23.33	22.29	22.5	24
		1	7	23.27	22.49	22.84	24
		1	14	23.38	22.6	22.9	24
	QPSK	8	0	22.38	21.2	21.14	22.5
	16QAM	8	4	22.29	21.27	21.33	22.5
		8	7	22.28	21.38	21.46	22.5
28411-		15	0	22.36	21.24	21.34	22.5
3MHz		1	0	22.38	21.13	21.51	22.5
		1	7	22.46	21.29	21.79	22.5
		1	14	22.23	21.35	21.93	22.5
		8	0	21.25	20.13	20.11	22
		8	4	21.18	20.23	20.21	22
		8	7	21.17	20.32	20.35	22
		15	0	21.19	20.17	20.17	22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Dandwidth	Modulation	ND SIZE	ND onset	18625	18900	19175	Tune up
		1	0	23.03	22.71	22.5	24
		1	13	23.32	22.74	22.65	24
		1	24	23.21	23.09	23.02	24
	QPSK	12	0	22.25	20.7	20.78	22.5
5MHz		12	6	22.32	20.87	21.04	22.5
		12	13	22.3	21.04	21.3	22.5
		25	0	22.41	20.8	21	22.5
	16QAM	1	0	22.15	20.93	20.66	22.5
	IUQAW	1	13	22.33	20.98	20.81	22.5



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		1	24	22.41	20.55	21.25	22.5
		12	0	21.44	20.09	20.49	22.3
		12	6	21.44	20.09	20.71	22
		12	13	21.46	20.45	20.78	22
		25	0	21.28	20.43	20.63	22
		23	U	Channel	Channel	Channel	22
Bandwidth	Modulation	RB size	RB offset	18650	18900	19150	Tune up
		1	0	23.3	22.78	22.62	24
		1	25				24
		1	49	23.29	22.73	22.33	24
	ODCK			23.34	22.96	22.59	
	QPSK	25	0	22.42	21.26	20.58	22.5
		25	13	22.31	21.57	20.78	22.5
		25	25	21.94	20.88	20.92	22.5
10MHz		50	0	22.18	21.44	20.76	22.5
		1	0	22.09	21.48	21.65	22.5
		1	25	22.45	21.54	21.35	22.5
		1	49	21.99	20.91	22.19	22.5
	16QAM	25	0	21.23	21.15	21.5	22
		25	13	21.21	21.35	21.56	22
		25	25	20.84	20.68	20.6	22
		50	0	20.7	20.68	21.89	22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18675	18900	19125	·
		1	0	23.4	22.47	22.68	24
		1	38	23.1	22.44	22.73	24
	QPSK	1	74	22.85	22.89	22.28	24
		36	0	22.22	21.99	21.02	22.5
		36	18	21.96	21.19	20.81	22.5
		36	39	21.41	21.93	20.57	22.5
15MHz		75	0	21.77	21.26	20.76	22.5
		1	0	22.48	20.8	21.76	22.5
		1	38	21.82	20.72	20.64	22.5
		1	74	21.37	21.01	20.77	22.5
	16QAM	36	0	21.16	21.34	21.56	22
		36	18	21.23	21.3	21.52	22
		36	39	21.15	21.32	21.62	22
		75	0	21.13	20.23	21.58	22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
	,	0.20		18700	18900	19100	·
		1	0	23.5	22.6	22.96	24
		1	50	22.59	22.56	22.16	24
		1	99	22.77	22.47	22.79	24
20MHz	QPSK	50	0	22.01	21.03	21.64	22.5
20MHZ	QPSK _	50	25	21.57	21.08	21.14	22.5
		50	23	21.37	21.00	21.17	22.0
		50	50	20.53	21.04	20.6	22.5



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		1	0	22.46	21.12	21.59	22.5
		1	50	22.01	21.26	21.05	22.5
		1	99	20.75	21.63	20.73	22.5
16	QAM	50	0	20.85	20.89	21.4	22
		50	25	21.55	20.86	21.38	22
		50	50	21.71	20.94	21.38	22
		100	0	21.6	20.92	21.46	22

	LTE Ba	and 4		Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
Danuwium	iviodulation	KD SIZE	KD Ollset	19957	20175	20393	Turie up	
		1	0	22.34	22.22	22.61	23	
		1	2	22.34	22.21	22.53	23	
		1	5	22.44	22.24	22.55	23	
	QPSK	3	0	21.5	21.38	21.86	22	
		3	2	21.55	21.46	21.75	22	
		3	3	21.61	21.43	21.73	22	
1.4MHz		6	0	21.35	20.94	20.88	22	
1.4111112		1	0	21.38	21	21.25	22	
		1	2	21.07	20.68	21.62	22	
		1	5	21.23	20.81	21.58	22	
	16QAM	3	0	20.82	20.26	20.64	21	
		3	2	20.87	20.37	20.55	21	
		3	3	20.91	20.39	20.49	21	
		6	0	20.16	20.27	20.92	21	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun	
Danuwium	iviodulation	KD SIZE	KD Ollset	19965	20175	20385	Tune up	
		1	0	22.5	22.11	22.7	23	
		1	7	22.57	22.3	22.51	23	
		1	14	22.54	22.4	22.51	23	
	QPSK	8	0	21.4	21.06	21.73	22	
		8	4	21.5	21.12	21.62	22	
		8	7	21.53	21.13	21.52	22	
3MHz		15	0	21.49	21.07	21.59	22	
SIVITIZ		1	0	21.48	21.17	21.71	22	
		1	7	21.72	21.36	21.66	22	
		1	14	21.7	21.24	21.63	22	
	16QAM	8	0	20.19	20.22	20.66	21	
		8	4	20.28	20.38	20.58	21	
		8	7	20.35	20.38	20.65	21	
		15	0	20.31	20.3	20.67	21	
Dondwidth	Modulation	DD size	DD offeet	Channel	Channel	Channel	Tungun	
Bandwidth	Modulation	RB size	RB offset	19975	20175	20375	Tune up	
5MHz	QPSK	1	0	22.65	22.36	22.62	23	
ЭІУІПД	QF3N	1	13	22.52	22.56	22.66	23	



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		1	24	22.62	22.4	22.21	23
		12	0	21.55	21.79	21.88	22
		12	6	21.71	21.22	21.93	22
		12	13	21.76	21.38	21.75	22
		25	0	21.65	21.13	21.83	22
		1	0	21.79	21.24	21.82	22
		1	13	21.99	21.38	21.86	22
		1	24	21.31	21.72	21.47	22
	16QAM	12	0	20.38	20.07	20.7	21
		12	6	20.55	20.31	20.74	21
		12	13	20.61	20.27	20.58	21
		25	0	20.44	20.24	20.6	21
Dan desidab	Madulatian	DD ains	DD -#+	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	20000	20175	20350	Tune up
		1	0	22.43	22.16	22.41	23
		1	25	22.65	22.14	22.47	23
		1	49	21.97	22.04	22.47	23
	QPSK	25	0	21.18	21.46	21.29	22
		25	13	21.4	21.21	21.87	22
		25	25	21.24	21.51	21.59	22
405511		50	0	21.15	21.08	21.7	22
10MHz		1	0	21.82	21.38	21.34	22
		1	25	21.87	21.23	21.6	22
		1	49	20.9	21.24	21.37	22
	16QAM	25	0	20.48	19.05	20.01	21
		25	13	20.63	19.41	20.7	21
		25	25	20.21	19.59	20.71	21
		50	0	20.8	20.37	20.93	21
D 1 1/1	NA. I I.C.	DD -: -	DD . (())	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	20025	20175	20325	Tune up
		1	0	22.6	22.26	22.26	23
		1	38	22.46	21.43	22.39	23
		1	74	21.44	21.48	22.36	23
	QPSK	36	0	21.65	20.38	21.24	22
		36	18	21.43	20.36	21.85	22
		36	39	20.42	20.92	21.53	22
455411		75	0	20.86	20.48	21.46	22
15MHz		1	0	21.63	20.52	20.94	22
		1	38	21.89	20.4	20.57	22
		1	74	20.28	20.83	21.03	22
	16QAM	36	0	20.41	20.68	20.43	21
		36	18	20.21	20.73	20.38	21
		36	39	20.04	20.49	20.36	21
		75	0	19.81	20.6	20.44	21
D1-1-11	Market			Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20050	20175	20300	Tune up



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		1	0	22.13	22.16	22.26	23
		1	50	22.62	22.68	22.73	23
		1	99	22.24	22.22	22.35	23
	QPSK	50	0	21.41	21.52	21.63	22
		50	25	21.47	21.57	21.62	22
		50	50	21.47	21.51	21.55	22
20MHz		100	0	21.48	21.52	21.58	22
20141112		1	0	21.47	20.86	21.57	22
		1	50	21.85	20.31	21.6	22
		1	99	20.28	21.01	21.78	22
	16QAM	50	0	20.27	20.53	20.35	21
		50	25	20.39	20.35	20.45	21
		50	50	20.32	20.32	20.72	21
		100	0	20.41	20.31	20.41	21

	LTE Ba	and 5		Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun		
Bandwidth	iviodulation	KD SIZE	KD Ollset	20407	20525	20643	Tune up		
		1	0	23.04	23.17	23.08	23.5		
		1	2	23.14	23.29	23.14	23.5		
		1	5	23.08	23.21	22.74	23.5		
	QPSK	3	0	22.52	22.33	22.36	23		
		3	2	22.61	22.37	22.37	23		
		3	3	22.56	22.38	22.15	23		
1.4MHz		6	0	21.87	22	21.95	23		
1.411172		1	0	21.94	21.91	21.8	23		
		1	2	22	22.01	21.88	23		
		1	5	21.89	21.95	21.8	23		
	16QAM	3	0	21.78	21.42	21.42	22		
		3	2	21.84	21.43	21.51	22		
		3	3	21.81	21.38	21.47	22		
		6	0	20.91	20.31	20.32	22		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tung up		
Danawidin	iviodulation	KD SIZE	KD Ollset	20415	20525	20635	Tune up		
		1	0	23.08	23.27	23.23	23.5		
		1	7	23.31	23.3	23.31	23.5		
		1	14	23.17	23.27	22.79	23.5		
	QPSK	8	0	22.15	22.28	22.22	23		
		8	4	22.21	22.31	22.23	23		
3MHz		8	7	22.18	22.27	22.16	23		
		15	0	22.15	22.25	22.19	23		
		1	0	22.25	22.27	22.67	23		
	16QAM	1	7	22.47	22.48	22.79	23		
	IOQAW	1	14	22.31	22.32	22.62	23		
		8	0	21.15	21.36	21.41	22		



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		8	4	21.22	21.37	21.43	22
		8	7	21.18	21.33	21.35	22
		15	0	21.13	21.3	21.26	22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
Danawidin	Modulation	KD SIZE	KD Ollset	20425	20525	20625	Tune up
		1	0	23.05	23.13	23.11	23.5
		1	13	23.24	23.28	23.25	23.5
		1	24	23.1	23.17	23.07	23.5
	QPSK	12	0	22.09	22.28	22.27	23
		12	6	22.21	22.3	22.25	23
		12	13	22.23	22.26	22.05	23
5MHz		25	0	22.16	22.29	22.15	23
SIVITZ		1	0	22.27	22.23	22.02	23
		1	13	22.46	22.39	22.09	23
		1	24	22.3	22.34	21.93	23
	16QAM	12	0	21.12	21.28	21.22	22
		12	6	21.25	21.32	21.26	22
		12	13	21.29	21.27	21.05	22
		25	0	21.17	21.3	21.24	22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Balluwiutii	width Modulation	KD SIZE	KD 011261	20450	20525	20600	Turie up
		1	0	23.1	23.27	23.31	23.5
		1	25	23.28	23.38	23.37	23.5
		1	49	23.2	23.28	23.2	23.5
	QPSK	25	0	22.09	22.46	22.33	23
		25	13	22.25	22.3	22.27	23
		25	25	22.15	22.34	22.08	23
10M⊔-		50	0	22.13	22.39	22.19	23
10MHz		1	0	22.27	22.21	22.86	23
		1	25	22.48	22.42	22.96	23
		1	49	22.34	22.32	22.69	23
	16QAM	25	0	21.15	21.54	21.33	22
		25	13	21.3	21.41	21.32	22
	16QAM	25	25	21.18	21.42	21.16	22
	16QAM Modulation QPSK	50	0	21.16	21.43	21.22	22

	LTE B			Conducted	Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwidin	Modulation	ND SIZE	IVD Ollser	20775	21100	21425	Turie up
		1	0	22.03	22.18	22.37	23
		1	13	22.28	22.37	22.51	23
5MHz	QPSK	1	24	21.84	22.19	22.31	23
SIVITZ	QPSK	12	0	21.22	21.36	21.54	22
		12	6	21.24	21.43	21.54	22
		12	13	21.28	21.36	21.43	22



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	Τ	0.5		04.04	04.00	04.44	
		25	0	21.24	21.32	21.44	22
		1	0	20.65	21.65	20.99	22
		1	13	20.68	21.81	21.24	22
		1	24	20.6	21.68	20.92	22
	16QAM	12	0	19.94	20.2	20.15	21
		12	6	19.98	20.4	20.28	21
		12	13	20.01	20.33	20.4	21
		25	0	20.27	20.23	20.44	21
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawiatii	Wodulation	IND SIZE	IND Ollset	20800	21100	21400	Turie up
		1	0	22.3	22.19	22.32	23
		1	25	22.27	22.42	22.49	23
		1	49	22.05	22.22	22.36	23
	QPSK	25	0	21.22	21.41	21.57	22
		25	13	21.3	21.45	21.56	22
		25	25	21.23	21.37	21.46	22
408411-		50	0	21.23	21.41	21.51	22
10MHz		1	0	20.86	20.96	21.75	22
		1	25	21.62	21.81	21.89	22
		1	49	21.84	21.26	21.72	22
	16QAM	25	0	20.47	20.34	20.65	21
		25	13	20.41	20.59	20.75	21
		25	25	20.33	20.4	20.66	21
		50	0	20.24	20.37	20.66	21
			DD (()	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	20825	21100	21375	Tune up
		1	0	22.3	22.29	22.41	23
		1	38	22.25	22.28	22.15	23
		1	74	21.82	22.04	22.19	23
	QPSK	36	0	21.18	21.33	21.51	22
		36	18	21.25	21.33	21.5	22
		36	39	21.08	21.35	21.47	22
		75	0	21.13	21.28	21.5	22
15MHz		1	0	20.84	21.21	21.61	22
		1	38	21.46	21.48	21.66	22
		1	74	21.69	21.28	21.13	22
	16QAM	36	0	20.49	20.04	20.38	21
		36	18	20.36	20.39	20.47	21
		36	39	20.14	20.29	20.33	21
	1		0	20.26	20.45	20.44	21
		/5	()				
		75			Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel 21100	Channel 21350	Tune up
Bandwidth	Modulation	RB size	RB offset	Channel 20850	21100	21350	
		RB size	RB offset	Channel 20850 22.2	21100 22.03	21350 22.27	23
Bandwidth 20MHz	Modulation QPSK	RB size	RB offset 0 50	Channel 20850 22.2 22.28	21100 22.03 22.52	21350 22.27 22.58	23 23
		RB size	RB offset	Channel 20850 22.2	21100 22.03	21350 22.27	23



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	50	25	21.17	21.46	21.57	22
	50	50	21.12	21.44	21.46	22
	100	0	21.21	21.4	21.53	22
	1	0	21.23	21.65	21.83	22
	1	50	21.06	21.61	21.1	22
	1	99	20.41	21.58	21.81	22
16QAM	50	0	20.44	20.31	20.67	21
	50	25	20.25	20.45	20.67	21
	50	50	20.09	20.37	20.49	21
	100	0	20.22	20.33	20.47	21

	LTE Band 66	6		Conducted Power(dBm)						
Dan bed 10	Martinga	DD -: -	DD . (()	Channel	Channel	Channel	T			
Bandwidth	Modulation	RB size	RB offset	19957	20175	20393	Tune up			
		1	0	22.59	22.78	22.51	23			
		1	2	22.58	22.72	22.4	23			
		1	5	22.47	22.82	22.38	23			
	QPSK	3	0	21.93	21.87	21.81	22			
		3	2	21.62	21.74	21.85	22			
		3	3	21.64	21.66	21.8	22			
1.4MHz		6	0	21.67	21.85	21.51	22			
1.4111172		1	0	21.65	21.45	21.72	22			
		1	2	21.69	21.81	21.89	22			
		1	5	21.76	21.72	21.74	22			
	16QAM	3	0	20.52	20.72	20.91	21			
	_	3	2	20.57	20.84	20.85	21			
		3	3	20.98	20.12	20.74	21			
		6	0	20.02	20.25	19.96	21			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun			
Danuwium	Modulation	KD SIZE	KD Oliset	19965	20175	20385	Tune up			
		1	0	22.58	22.61	22.54	23			
		1	7	22.68	22.74	22.49	23			
		1	14	22.73	22.66	22.48	23			
	QPSK	8	0	21.47	21.72	21.48	22			
		8	4	21.35	21.8	21.51	22			
		8	7	21.35	21.74	21.57	22			
3MHz		15	0	21.42	21.77	21.48	22			
SIVITIZ		1	0	21.35	21.74	21.66	22			
		1	7	21.74	21.65	21.75	22			
		1	14	21.65	21.61	21.79	22			
	16QAM	8	0	20.81	20.84	20.44	21			
		8	4	20.71	20.94	20.54	21			
		8	7	20.7	20.87	20.5	21			
	15		0	20.44	20.89	20.51	21			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up			



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				10075	20175	20275	
		1	0	19975	20175	20375	22
		1	0	22.28	22.66	22.32	23
		1	13	22.15	22.65	22.53	23
	00014	1	24	22.05	22.7	22.33	23
	QPSK	12	0	21.38	21.8	21.45	22
		12	6	21.25	21.77	21.45	22
		12	13	21.27	21.73	21.38	22
5MHz		25	0	21.31	21.82	21.36	22
		1	0	21.71	21.5	20.66	22
		1	13	21.58	21.36	20.67	22
		1	24	21.46	21.42	20.77	22
	16QAM	12	0	20.28	20.62	20.39	21
		12	6	20	20.61	20.62	21
		12	13	20.02	20.65	20.66	21
		25	0	20.36	20.79	20.59	21
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawidii	iviodulation	IVD SIZE	VD 011961	20000	20175	20350	rune up
		1	0	22.55	22.75	22.52	23
		1	25	22.2	22.81	22.57	23
		1	49	22.38	22.67	22.39	23
	QPSK	25	0	21.37	21.75	21.47	22
		25	13	21.25	21.76	21.43	22
		25	25	21.3	21.6	21.46	22
400011-		50	0	21.21	21.74	21.42	22
10MHz		1	0	21.56	21.57	21.34	22
		1	25	21.65	21.65	21.99	22
		1	49	21.74	21.2	21.78	22
	16QAM	25	0	20.43	20.68	20.27	21
		25	13	20.18	20.7	20.62	21
		25	25	20.42	20.51	20.69	21
		50	0	20.25	20.7	20.43	21
D 1-1141	Madde		DD . "	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20025	20175	20325	Tune up
		1	0	22.28	22.48	22.33	23
		1	38	22.26	22.67	22.44	23
		1	74	22.55	22.54	22.46	23
	QPSK	36	0	21.23	21.76	21.38	22
		36	18	21.25	21.75	21.55	22
		36	39	21.33	21.57	21.47	22
15MHz		75	0	21.24	21.66	21.42	22
		1	0	21.76	21.84	21.56	22
		1	38	21.76	21.84	21.77	22
		1	74				22
	16QAM						
	16QAM	36 36	0 18	21.97 20.19 20.27	21.09 20.69 20.69	21.77 20.38 20.45	21 21
		36	39	20.47	20.59	20.54	21



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		75	0	20.2	20.83	20.5	21			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun			
Danuwium	iviodulation	KD SIZE	KD Oliset	132072	132322	132572	Tune up			
		1	0	22.61	22.63	22.53	23			
		1	50	22.68	22.84	22.59	23			
		1	99	22.65	22.31	22.49	23			
	QPSK	50	0	21.24	21.82	21.35	22			
		50	25	21.34	21.74	21.49	22			
		50	50	21.38	21.6	21.52	22			
20MHz		100	0	21.3	21.76	21.45	22			
20141112		1	0	21.35	20.87	21.9	22			
		1	50	21.27	21.51	21.15	22			
		1		1	1	99	21.36	20.83	21.71	22
	16QAM	50	0	20.17	20.84	20.39	21			
		50	25	20.36	20.7	20.63	21			
		50	50	20.4	20.48	20.58	21			
		100	0	20.24	20.74	20.53	21			

Table 6: Conducted Power Of LTE



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8.1.3 Conducted Power Of Wi-Fi and BT

Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm)	Tune up
	1	2412		9.08	10
802.11b	6	2437	1	9.58	10
	11	2462		9.78	10
	1	2412		9.1	9.5
802.11g	6	2437	MCS0	9.33	9.5
	11	2462		9.48	9.5
000.44	1	2412		8.69	9.5
802.11n HT20 SISO	6	2437	MCS0	9.07	9.5
11120 0100	11	2462		9.23	9.5

Table 7: Conducted Power Of Wi-Fi

Note:

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

	BT		Average Conducted	Tune up (dBm)
Modulation	Channel	Frequency (MHz)	Power(dBm)	Tune up (ubili)
	0	2402	-2.28	-1
GFSK	39	2441	-2.08	-1
	78	2480	-2.49	-1
	BLE		Average Conducted	Tuno un (dPm)
Modulation	Channel	Frequency (MHz)	Power(dBm)	Tune up (dBm)
	0	2402	-1.7	-1
GFSK	19	2440	-1.52	-1
	39	2480	-1.9	-1

Table 8: Conducted Power Of BT



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8.2 Stand-alone SAR test evaluation

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

Freq. Band	Frequency	Position	Average	Power	Test Separation	Calculate	Exclusion	Exclusion
ricq. Band	(GHz)	1 03111011	dBm	mW	(mm)	Value	Threshold	(Y/N)
GSM850	0.848	Extremity	31.5	1412.5	0	260.2	7.5	Ν
GSIVIOSO	0.040	Body	31.5	1412.5	10	130.1	3	Ν
GSM1900	1.909	Extremity	22.5	177.8	0	49.1	7.5	Ν
G3W1900	1.909	Body	22.5	177.8	10	24.6	3	N
LTE Band 2	1.909	Extremity	24	251.2	0	69.4	7.5	N
LIE Ballu Z	1.909	Body	24	251.2	10	34.7	3	N
LTC Bond 4	1 751	Extremity	23	199.5	0	52.8	7.5	N
LTE Band 4	1.754	Body	23	199.5	10	26.4	3	N
LTE Band 5	0.040	Extremity	23.5	223.9	0	41.2	7.5	N
LIE Band 5	0.848	Body	23.5	223.9	10	20.6	3	N
LTE Band 7	2.569	Extremity	23	199.5	0	64	7.5	N
LIE Ballu /	2.569	Body	23	199.5	10	32	3	N
LTE Band 66	1 770	Extremity	23	199.5	0	53.2	7.5	Ν
LIE Band 66	1.779	Body	23	199.5	10	26.6	3	N
Wi-Fi	2.45	Extremity	10	10	0	3.1	7.5	Y
VVI-F1	2.45	Body	10	10	10	1.6	3	Y
Bluetooth	2.48	Extremity	-1	0.8	0	0.3	7.5	Y
Dideloom	2.40	Body	-1	0.8	10	0.1	3	Υ

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

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

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

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



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8.3 Measurement of SAR Data

8.3.1 SAR Result Of GSM 850

Test position	Test mode	Test Ch./Freq.	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Condu cted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp	SAR limit (W/kg)
			Body	Test data	with SIM	1(Separate	e 10mm)					
Front side	GPRS 3TS	128/824.2	0.331	0.174	0.03	30.94	31.5	1.138	0.377	0.198	22.1	1.6
Back side	GPRS 3TS	128/824.2	0.412	0.237	0.08	30.94	31.5	1.138	0.469	0.270	22.1	1.6
Left side	GPRS 3TS	128/824.2	0.357	0.196	-0.14	30.94	31.5	1.138	0.406	0.223	22.1	1.6
Right side	GPRS 3TS	128/824.2	0.024	0.012	0.02	30.94	31.5	1.138	0.027	0.014	22.1	1.6
Top side	GPRS 3TS	128/824.2	0.003	0.001	0.08	30.94	31.5	1.138	0.003	0.001	22.1	1.6
Bottom side	GPRS 3TS	128/824.2	0.345	0.189	-0.13	30.94	31.5	1.138	0.392	0.215	22.1	1.6
			Extren	nity Test d	ata with S	IM1(Sepai	rate 0mm))				
Front side	GPRS 3TS	128/824.2	0.563	0.299	0.05	30.94	31.5	1.138	0.640	0.340	22.1	4.0
Back side	GPRS 3TS	128/824.2	0.819	0.451	0.06	30.94	31.5	1.138	0.932	0.513	22.1	4.0
Left side	GPRS 3TS	128/824.2	0.746	0.378	0.04	30.94	31.5	1.138	0.849	0.430	22.1	4.0
Right side	GPRS 3TS	128/824.2	0.062	0.03	0.09	30.94	31.5	1.138	0.071	0.034	22.1	4.0
Top side	GPRS 3TS	128/824.2	0.014	0.007	0.03	30.94	31.5	1.138	0.016	0.008	22.1	4.0
Bottom side	GPRS 3TS	128/824.2	0.712	0.361	-0.04	30.94	31.5	1.138	0.810	0.411	22.1	4.0

Table 9: SAR Result Of GSM 850 Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph Results refer to Appendix B
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).



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8.3.2 SAR Result Of GSM 1900

Test position	Test mode	Test Ch./Freq.	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift(dB)	Condu cted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp	SAR limit (W/kg)
			Во	dy Test da	ata with SIM	1(Separate	e 10mm)					
Front side	GPRS 4TS	810/1909.8	0.263	0.137	0.03	22.02	22.5	1.117	0.294	0.153	22.3	1.6
Back side	GPRS 4TS	810/1909.8	0.335	0.187	-0.05	22.02	22.5	1.117	0.374	0.209	22.3	1.6
Left side	GPRS 4TS	810/1909.8	0.302	0.166	0.04	22.02	22.5	1.117	0.337	0.185	22.3	1.6
Right side	GPRS 4TS	810/1909.8	0.025	0.012	0.11	22.02	22.5	1.117	0.028	0.013	22.3	1.6
Top side	GPRS 4TS	810/1909.8	0.008	0.004	0.02	22.02	22.5	1.117	0.009	0.004	22.3	1.6
Bottom side	GPRS 4TS	810/1909.8	0.272	0.145	0.04	22.02	22.5	1.117	0.304	0.162	22.3	1.6
			Extr	emity Tes	t data with S	IM1(Sepai	rate 0mm)					
Front side	GPRS 4TS	810/1909.8	0.76	0.355	-0.09	22.02	22.5	1.117	0.849	0.396	22.3	4.0
Back side	GPRS 4TS	810/1909.8	1.32	0.615	0.13	22.02	22.5	1.117	1.474	0.687	22.3	4.0
Left side	GPRS 4TS	810/1909.8	0.97	0.415	0.04	22.02	22.5	1.117	1.083	0.463	22.3	4.0
Right side	GPRS 4TS	810/1909.8	0.061	0.033	0.02	22.02	22.5	1.117	0.068	0.037	22.3	4.0
Top side	GPRS 4TS	810/1909.8	0.011	0.005	0.01	22.02	22.5	1.117	0.012	0.006	22.3	4.0
Bottom side	GPRS 4TS	810/1909.8	0.95	0.409	-0.06	22.02	22.5	1.117	1.061	0.457	22.3	4.0

Table 10: SAR Result Of GSM 1900 Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph Results refer to Appendix B
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).



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8.3.3 SAR Result Of LTE Band 2

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Condu cted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
			Boo	dy Test da	ta with SII	M1(Separ	ate 10mm))					
Front side	20M_QPSK 1RB_0	18700/1860	1:1	0.295	0.168	0.05	23.5	24	1.122	0.331	0.188	22.3	1.6
Front side	20M_QPSK 50RB_0	18700/1860	1:1	0.233	0.131	-0.15	22.01	22.5	1.119	0.261	0.147	22.3	1.6
Back side	20M_QPSK 1RB_0	18700/1860	1:1	0.395	0.23	0.07	23.5	24	1.122	0.443	0.258	22.3	1.6
Back side	20M_QPSK 50RB_0	18700/1860	1:1	0.331	0.194	0.03	22.01	22.5	1.119	0.371	0.217	22.3	1.6
Left side	20M_QPSK 1RB_0	18700/1860	1:1	0.301	0.175	0.07	23.5	24	1.122	0.338	0.196	22.3	1.6
Left side	20M_QPSK 50RB_0	18700/1860	1:1	0.266	0.124	-0.01	22.01	22.5	1.119	0.298	0.139	22.3	1.6
Right side	20M_QPSK 1RB_0	18700/1860	1:1	0.095	0.044	0.08	23.5	24	1.122	0.107	0.049	22.3	1.6
Right side	20M_QPSK 50RB_0	18700/1860	1:1	0.067	0.031	0.06	22.01	22.5	1.119	0.075	0.035	22.3	1.6
Top side	20M_QPSK 1RB_0	18700/1860	1:1	0.005	0.003	0	23.5	24	1.122	0.006	0.003	22.3	1.6
Top side	20M_QPSK 50RB_0	18700/1860	1:1	0.003	0.001	0.05	22.01	22.5	1.119	0.003	0.001	22.3	1.6
Bottom side	20M_QPSK 1RB_0	18700/1860	1:1	0.286	0.166	-0.07	23.5	24	1.122	0.321	0.186	22.3	1.6
Bottom side	20M_QPSK 50RB_0	18700/1860	1:1	0.227	0.126	0.03	22.01	22.5	1.119	0.254	0.141	22.3	1.6
			Extre	emity Test	data with	SIM1(Sep	arate 0mr	n)					
Front side	20M_QPSK 1RB_0	18700/1860	1:1	1.26	0.669	0.08	23.5	24	1.122	1.414	0.751	22.3	4.0
Front side	20M_QPSK 50RB_0	18700/1860	1:1	0.94	0.535	0.04	22.01	22.5	1.119	1.052	0.599	22.3	4.0
Back side	20M_QPSK 1RB_0	18700/1860	1:1	1.87	0.811	-0.13	23.5	24	1.122	2.098	0.910	22.3	4.0
Back side	20M_QPSK 50RB_0	18700/1860	1:1	1.32	0.663	0.05	22.01	22.5	1.119	1.478	0.742	22.3	4.0
Left side	20M_QPSK 1RB_0	18700/1860	1:1	1.4	0.612	0.05	23.5	24	1.122	1.571	0.687	22.3	4.0
Left side	20M_QPSK 50RB_0	18700/1860	1:1	1.05	0.572	0.08	22.01	22.5	1.119	1.175	0.640	22.3	4.0
Right side	20M_QPSK 1RB_0	18700/1860	1:1	0.381	0.21	0.01	23.5	24	1.122	0.427	0.236	22.3	4.0
Right side	20M_QPSK 50RB_0	18700/1860	1:1	0.305	0.163	-0.06	22.01	22.5	1.119	0.341	0.182	22.3	4.0
Top side	20M_QPSK 1RB_0	18700/1860	1:1	0.024	0.012	-0.03	23.5	24	1.122	0.027	0.013	22.3	4.0
Top side	20M_QPSK 50RB_0	18700/1860	1:1	0.015	0.007	0.04	22.01	22.5	1.119	0.017	0.008	22.3	4.0
Bottom side	20M_QPSK 1RB_0	18700/1860	1:1	1.34	0.648	-0.03	23.5	24	1.122	1.504	0.727	22.3	4.0
Bottom side	20M_QPSK 50RB_0	18700/1860	1:1	0.99	0.547	0.08	22.01	22.5	1.119	1.108	0.612	22.3	4.0

Table 11: SAR Result of LTE Band 2 Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
- 2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is \leq 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).



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8.3.4 SAR Result Of LTE Band 4

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	cted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
			Во	dy Test da	ta with SII	M1(Separa	ate 10mm))					
Front side	20M_QPSK 1RB_50	20300/1745	1:1	0.235	0.122	0.06	22.73	23	1.064	0.250	0.130	22.2	1.6
Front side	20M_QPSK 50RB_0	20300/1745	1:1	0.203	0.108	-0.03	21.63	22	1.089	0.221	0.118	22.2	1.6
Back side	20M_QPSK 1RB_50	20300/1745	1:1	0.367	0.21	0.04	22.73	23	1.064	0.391	0.223	22.2	1.6
Back side	20M_QPSK 50RB_0	20300/1745	1:1	0.303	0.153	-0.04	21.63	22	1.089	0.330	0.167	22.2	1.6
Left side	20M_QPSK 1RB_50	20300/1745	1:1	0.335	0.187	0.09	22.73	23	1.064	0.356	0.199	22.2	1.6
Left side	20M_QPSK 50RB_0	20300/1745	1:1	0.284	0.149	0.06	21.63	22	1.089	0.309	0.162	22.2	1.6
Right side	20M_QPSK 1RB_50	20300/1745	1:1	0.089	0.045	-0.12	22.73	23	1.064	0.095	0.048	22.2	1.6
Right side	20M_QPSK 50RB_0	20300/1745	1:1	0.072	0.035	0.05	21.63	22	1.089	0.078	0.038	22.2	1.6
Top side	20M_QPSK 1RB_50	20300/1745	1:1	0.008	0.004	0.04	22.73	23	1.064	0.009	0.004	22.2	1.6
Top side	20M_QPSK 50RB_0	20300/1745	1:1	0.006	0.003	-0.06	21.63	22	1.089	0.007	0.003	22.2	1.6
Bottom side	20M_QPSK 1RB_50	20300/1745	1:1	0.286	0.151	0.08	22.73	23	1.064	0.304	0.161	22.2	1.6
Bottom side	20M_QPSK 50RB_0	20300/1745	1:1	0.231	0.129	-0.15	21.63	22	1.089	0.252	0.140	22.2	1.6
			Extre	emity Test	data with	SIM1(Sep	arate 0mr	n)					
Front side	20M_QPSK 1RB_50	20300/1745	1:1	0.812	0.394	0.03	22.73	23	1.064	0.864	0.419	22.2	4.0
Front side	20M_QPSK 50RB_0	20300/1745	1:1	0.705	0.352	-0.05	21.63	22	1.089	0.768	0.383	22.2	4.0
Back side	20M_QPSK 1RB_50	20300/1745	1:1	1.1	0.471	0.02	22.73	23	1.064	1.171	0.501	22.2	4.0
Back side	20M_QPSK 50RB_0	20300/1745	1:1	0.89	0.391	0.06	21.63	22	1.089	0.969	0.426	22.2	4.0
Left side	20M_QPSK 1RB_50	20300/1745	1:1	0.92	0.423	0.04	22.73	23	1.064	0.979	0.450	22.2	4.0
Left side	20M_QPSK 50RB_0	20300/1745	1:1	0.76	0.355	-0.17	21.63	22	1.089	0.828	0.387	22.2	4.0
Right side	20M_QPSK 1RB_50	20300/1745	1:1	0.275	0.123	0.08	22.73	23	1.064	0.293	0.131	22.2	4.0
Right side	20M_QPSK 50RB_0	20300/1745	1:1	0.231	0.107	0.09	21.63	22	1.089	0.252	0.117	22.2	4.0
Top side	20M_QPSK 1RB_50	20300/1745	1:1	0.041	0.02	0.04	22.73	23	1.064	0.044	0.021	22.2	4.0
Top side	20M_QPSK 50RB_0	20300/1745	1:1	0.029	0.014	0.01	21.63	22	1.089	0.032	0.015	22.2	4.0
Bottom side	20M_QPSK 1RB_50	20300/1745	1:1	0.865	0.415	0.06	22.73	23	1.064	0.920	0.442	22.2	4.0
Bottom side	20M_QPSK 50RB_0	20300/1745	1:1	0.741	0.337	-0.03	21.63	22	1.089	0.807	0.367	22.2	4.0

Table 12: SAR Result of LTE Band 4 Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
- 2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).



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8.3.5 SAR Result Of LTE Band 5

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	cted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
			Boo	dy Test da	ta with SII	M1(Separa	ate 10mm)						
Front side	10M_QPSK 1RB_25	20525/836.5	1:1	0.317	0.189	0.03	23.38	23.5	1.028	0.326	0.194	22.2	1.6
Front side	10M_QPSK 25RB_0	20525/836.5	1:1	0.281	0.163	0.02	22.46	23	1.132	0.318	0.185	22.2	1.6
Back side	10M_QPSK 1RB_25	20525/836.5	1:1	0.557	0.436	0.05	23.38	23.5	1.028	0.573	0.448	22.2	1.6
Back side	10M_QPSK 25RB_0	20525/836.5	1:1	0.483	0.372	-0.01	22.46	23	1.132	0.547	0.421	22.2	1.6
Left side	10M_QPSK 1RB_25	20525/836.5	1:1	0.497	0.325	0.04	23.38	23.5	1.028	0.511	0.334	22.2	1.6
Left side	10M_QPSK 25RB_0	20525/836.5	1:1	0.402	0.275	0.08	22.46	23	1.132	0.455	0.311	22.2	1.6
Right side	10M_QPSK 1RB_25	20525/836.5	1:1	0.032	0.017	0.06	23.38	23.5	1.028	0.033	0.017	22.2	1.6
Right side	10M_QPSK 25RB_0	20525/836.5	1:1	0.024	0.012	-0.07	22.46	23	1.132	0.027	0.014	22.2	1.6
Top side	10M_QPSK 1RB_25	20525/836.5	1:1	0.006	0.003	0.03	23.38	23.5	1.028	0.006	0.003	22.2	1.6
Top side	10M_QPSK 25RB_0	20525/836.5	1:1	0.004	0.002	-0.04	22.46	23	1.132	0.005	0.002	22.2	1.6
Bottom side	10M_QPSK 1RB_25	20525/836.5	1:1	0.412	0.235	-0.09	23.38	23.5	1.028	0.424	0.242	22.2	1.6
Bottom side	10M_QPSK 25RB_0	20525/836.5	1:1	0.349	0.203	0.01	22.46	23	1.132	0.395	0.230	22.2	1.6
			Extre	emity Test	data with	SIM1(Sep	arate 0mn	n)					
Front side	10M_QPSK 1RB_25	20525/836.5	1:1	0.817	0.495	0.03	23.38	23.5	1.028	0.840	0.509	22.2	4.0
Front side	10M_QPSK 25RB_0	20525/836.5	1:1	0.729	0.432	-0.09	22.46	23	1.132	0.826	0.489	22.2	4.0
Back side	10M_QPSK 1RB_25	20525/836.5	1:1	0.994	0.602	0.02	23.38	23.5	1.028	1.022	0.619	22.2	4.0
Back side	10M_QPSK 25RB_0	20525/836.5	1:1	0.862	0.514	-0.12	22.46	23	1.132	0.976	0.582	22.2	4.0
Left side	10M_QPSK 1RB_25	20525/836.5	1:1	0.822	0.503	0.05	23.38	23.5	1.028	0.845	0.517	22.2	4.0
Left side	10M_QPSK 25RB_0	20525/836.5	1:1	0.745	0.455	-0.17	22.46	23	1.132	0.844	0.515	22.2	4.0
Right side	10M_QPSK 1RB_25	20525/836.5	1:1	0.062	0.037	0.06	23.38	23.5	1.028	0.064	0.038	22.2	4.0
Right side	10M_QPSK 25RB_0	20525/836.5	1:1	0.049	0.025	0.05	22.46	23	1.132	0.055	0.028	22.2	4.0
Top side	10M_QPSK 1RB_25	20525/836.5	1:1	0.009	0.004	-0.06	23.38	23.5	1.028	0.009	0.004	22.2	4.0
Top side	10M_QPSK 25RB_0	20525/836.5	1:1	0.006	0.003	0.08	22.46	23	1.132	0.007	0.003	22.2	4.0
Bottom side	10M_QPSK 1RB_25	20525/836.5	1:1	0.914	0.567	0.04	23.38	23.5	1.028	0.940	0.583	22.2	4.0
Bottom side	10M_QPSK 25RB_0	20525/836.5	1:1	0.865	0.524	-0.01	22.46	23	1.132	0.980	0.593	22.2	4.0

Table 13: SAR Result of LTE Band 5 Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
- 2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).



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8.3.6 SAR Result Of LTE Band 7

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	cted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
			Boo	dy Test da	ta with SIN	//1(Separa	ate 10mm)	, , , ,					
Front side	20M_QPSK 1RB_50	21350/2560	1:1	0.682	0.331	0	22.58	23	1.102	0.751	0.365	22.2	1.6
Front side	20M_QPSK 50RB_0	21350/2560	1:1	0.553	0.275	0.03	21.57	22	1.104	0.611	0.304	22.2	1.6
Back side	20M_QPSK 1RB_50	21350/2560	1:1	0.811	0.392	0.08	22.58	23	1.102	0.893	0.432	22.2	1.6
Back side	20M_QPSK 50RB_0	21350/2560	1:1	0.674	0.315	0.06	21.57	22	1.104	0.744	0.348	22.2	1.6
Left side	20M_QPSK 1RB_50	21350/2560	1:1	0.715	0.341	-0.05	22.58	23	1.102	0.788	0.376	22.2	1.6
Left side	20M_QPSK 50RB_0	21350/2560	1:1	0.635	0.297	-0.16	21.57	22	1.104	0.701	0.328	22.2	1.6
Right side	20M_QPSK 1RB_50	21350/2560	1:1	0.051	0.024	0.08	22.58	23	1.102	0.056	0.026	22.2	1.6
Right side	20M_QPSK 50RB_0	21350/2560	1:1	0.039	0.017	0.04	21.57	22	1.104	0.043	0.019	22.2	1.6
Top side	20M_QPSK 1RB_50	21350/2560	1:1	0.015	0.007	-0.03	22.58	23	1.102	0.017	0.008	22.2	1.6
Top side	20M_QPSK 50RB_0	21350/2560	1:1	0.011	0.004	0.11	21.57	22	1.104	0.012	0.004	22.2	1.6
Bottom side	20M_QPSK 1RB_50	21350/2560	1:1	0.703	0.342	0.05	22.58	23	1.102	0.774	0.377	22.2	1.6
Bottom side	20M_QPSK 50RB_0	21350/2560	1:1	0.645	0.301	-0.16	21.57	22	1.104	0.712	0.332	22.2	1.6
Back side	20M_QPSK 1RB_50	20850/2510	1:1	0.863	0.423	-0.02	22.28	23	1.180	1.019	0.499	22.2	1.6
Back side	20M_QPSK 1RB_50	21100/2535.5	1:1	0.575	0.282	0.01	22.52	23	1.117	0.642	0.315	22.2	1.6
Back side	20M_QPSK 100RB_0	21350/2560	1:1	0.662	0.309	0.03	21.53	22	1.114	0.738	0.344	22.2	1.6
			Extre	mity Test	data with	SIM1(Sep	arate 0mn	n)					
Front side	20M_QPSK 1RB_50	21350/2560	1:1	0.325	0.134	-0.18	22.58	23	1.102	0.358	0.148	22.2	4.0
Front side	20M_QPSK 50RB_0	21350/2560	1:1	0.287	0.134	0.03	21.57	22	1.104	0.317	0.148	22.2	4.0
Back side	20M_QPSK 1RB_50	21350/2560	1:1	4.1	1.66	0.02	22.58	23	1.102	4.516	1.829	22.2	4.0
Back side	20M_QPSK 50RB_0	21350/2560	1:1	3.15	1.27	0.08	21.57	22	1.104	3.478	1.402	22.2	4.0
Left side	20M_QPSK 1RB_50	21350/2560	1:1	0.364	0.151	-0.03	22.58	23	1.102	0.401	0.166	22.2	4.0
Left side	20M_QPSK 50RB_0	21350/2560	1:1	0.294	0.122	0.05	21.57	22	1.104	0.325	0.135	22.2	4.0
Right side	20M_QPSK 1RB_50	21350/2560	1:1	0.023	0.012	0.04	22.58	23	1.102	0.025	0.013	22.2	4.0
Right side	20M_QPSK 50RB_0	21350/2560	1:1	0.016	0.008	-0.06	21.57	22	1.104	0.018	0.009	22.2	4.0
Top side	20M_QPSK 1RB_50	21350/2560	1:1	0.005	0.002	0.08	22.58	23	1.102	0.006	0.002	22.2	4.0
Top side	20M_QPSK 50RB_0	21350/2560	1:1	0.003	0.001	0.04	21.57	22	1.104	0.003	0.001	22.2	4.0
Bottom side	20M_QPSK 1RB_50	21350/2560	1:1	0.372	0.157	0.01	22.58	23	1.102	0.410	0.173	22.2	4.0
Bottom side	20M_QPSK 50RB_0	21350/2560	1:1	0.299	0.126	-0.16	21.57	22	1.104	0.330	0.139	22.2	4.0

Table 14: SAR Result of LTE Band 7 Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
- 2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).



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8.3.7 SAR Result Of LTE Band 66

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Condu cted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
	Body Test data with SIM1(Separate 10mm)												
Front side	20M_QPSK 1RB_50	132322/1745	1:1	0.132	0.068	-0.05	22.84	23	1.038	0.137	0.071	22.2	1.6
Front side	20M_QPSK 50RB_0	132322/1745	1:1	0.102	0.053	0.09	21.82	22	1.042	0.106	0.055	22.2	1.6
Back side	20M_QPSK 1RB_50	132322/1745	1:1	0.231	0.133	0.15	22.84	23	1.038	0.240	0.138	22.2	1.6
Back side	20M_QPSK 50RB_0	132322/1745	1:1	0.175	0.092	0.04	21.82	22	1.042	0.182	0.096	22.2	1.6
Left side	20M_QPSK 1RB_50	132322/1745	1:1	0.197	0.102	-0.15	22.84	23	1.038	0.204	0.106	22.2	1.6
Left side	20M_QPSK 50RB_0	132322/1745	1:1	0.145	0.077	0.08	21.82	22	1.042	0.151	0.080	22.2	1.6
Right side	20M_QPSK 1RB_50	132322/1745	1:1	0.01	0.005	0.03	22.84	23	1.038	0.010	0.005	22.2	1.6
Right side	20M_QPSK 50RB_0	132322/1745	1:1	0.008	0.004	-0.18	21.82	22	1.042	0.008	0.004	22.2	1.6
Top side	20M_QPSK 1RB_50	132322/1745	1:1	0.003	0.001	0.04	22.84	23	1.038	0.003	0.001	22.2	1.6
Top side	20M_QPSK 50RB_0	132322/1745	1:1	0.001	0	0	21.82	22	1.042	0.001	0.000	22.2	1.6
Bottom side	20M_QPSK 1RB_50	132322/1745	1:1	0.199	0.109	0.08	22.84	23	1.038	0.206	0.113	22.2	1.6
Bottom side	20M_QPSK 50RB_0	132322/1745	1:1	0.152	0.081	0.03	21.82	22	1.042	0.158	0.084	22.2	1.6
			Extr	emity Test	t data with	SIM1(Sep	parate 0m	m)					
Front side	20M_QPSK 1RB_50	132322/1745	1:1	0.623	0.304	-0.06	22.84	23	1.038	0.646	0.315	22.2	4.0
Front side	20M_QPSK 50RB_0	132322/1745	1:1	0.572	0.265	0.08	21.82	22	1.042	0.596	0.276	22.2	4.0
Back side	20M_QPSK 1RB_50	132322/1745	1:1	1	0.432	0.06	22.84	23	1.038	1.038	0.448	22.2	4.0
Back side	20M_QPSK 50RB_0	132322/1745	1:1	0.798	0.362	-0.17	21.82	22	1.042	0.832	0.377	22.2	4.0
Left side	20M_QPSK 1RB_50	132322/1745	1:1	0.824	0.394	0.06	22.84	23	1.038	0.855	0.409	22.2	4.0
Left side	20M_QPSK 50RB_0	132322/1745	1:1	0.706	0.315	0.02	21.82	22	1.042	0.736	0.328	22.2	4.0
Right side	20M_QPSK 1RB_50	132322/1745	1:1	0.073	0.035	0.03	22.84	23	1.038	0.076	0.036	22.2	4.0
Right side	20M_QPSK 50RB_0	132322/1745	1:1	0.061	0.028	0	21.82	22	1.042	0.064	0.029	22.2	4.0
Top side	20M_QPSK 1RB_50	132322/1745	1:1	0.015	0.007	0.04	22.84	23	1.038	0.016	0.007	22.2	4.0
Top side	20M_QPSK 50RB_0	132322/1745	1:1	0.011	0.004	0.01	21.82	22	1.042	0.011	0.004	22.2	4.0
Bottom side	20M_QPSK 1RB_50	132322/1745	1:1	0.799	0.375	-0.02	22.84	23	1.038	0.829	0.389	22.2	4.0
Bottom side	20M_QPSK 50RB_0	132322/1745	1:1	0.684	0.301	0.08	21.82	22	1.042	0.713	0.314	22.2	4.0

Table 15: SAR Result of LTE Band 66 Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
- 2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is \leq 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).



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8.4 Multiple Transmitter Evaluation

8.4.1 Simultaneous SAR SAR test evaluation

Simultaneous Transmission

	Simulation of Transmission										
NO.	Simultaneous Transmission Configuration	Body	Extremity								
1	GPRS/EDGE(Data) + WiFi	Yes	Yes								
2	GPRS/EDGE(Data) + BT	Yes	Yes								
3	LTE(Data) + Wi-Fi	Yes	Yes								
4	LTE(Data) + BT	Yes	Yes								
5	BT+ Wi-Fi	Yes	Yes								
6	WWAN+WLAN+BT	Yes	Yes								



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8.4.2 Estimated SAR

When the standalone SAR test exclusion is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following to determine simultaneous transmission SAR test exclusion:

• (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f(GHz)/x] W/kg for test separation distances ≤ 50 mm;

Where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.

• 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distances is > 50 mm.

Estimated SAR Result

Freq. Band	Frequency (MHz)	Test Position	Test Separation (mm)	max. power(dBm)	Estimated 1g SAR (W/kg)	Estimated 10g SAR (W/kg)
Wi-Fi	2450	Body	10	10	0.209	NA
Wi-Fi	2450	Extremity	0	10	NA	0.167
Bluetooth	2480	Body	10	-1	0.017	NA
Bluetooth	2480	Extremity	0	-1	NA	0.013



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1) Simultaneous Transmission SAR Summation Scenario for Body

	Exposure position	①MAX. WWAN SAR	②MAX. WLAN 2.4GHz SAR(W/kg)	_	Summed SAR ①+②	Summed SAR ①+③	Summed SAR ②+③	Summed SAR ①+②+③	Case NO.
	Front	0.377	0.209	0.017	0.586	0.394	0.226	0.603	No
	Back	0.469	0.209	0.017	0.678	0.486	0.226	0.695	No
COMOTO	Left	0.406	0.209	0.017	0.615	0.423	0.226	0.632	No
GSM850	Right	0.027	0.209	0.017	0.236	0.044	0.226	0.253	No
	Тор	0.003	0.209	0.017	0.212	0.020	0.226	0.229	No
	Bottom	0.392	0.209	0.017	0.601	0.409	0.226	0.618	No
	Front	0.294	0.209	0.017	0.503	0.311	0.226	0.520	No
	Back	0.374	0.209	0.017	0.583	0.391	0.226	0.600	No
GSM1900	Left	0.337	0.209	0.017	0.546	0.354	0.226	0.563	No
GSM1900	Right	0.028	0.209	0.017	0.237	0.045	0.226	0.254	No
	Тор	0.009	0.209	0.017	0.218	0.026	0.226	0.235	No
	Bottom	0.304	0.209	0.017	0.513	0.321	0.226	0.530	No
	Front	0.331	0.209	0.017	0.540	0.348	0.226	0.557	No
	Back	0.443	0.209	0.017	0.652	0.460	0.226	0.669	No
LTE Band 2	Left	0.338	0.209	0.017	0.547	0.355	0.226	0.564	No
LIE Dallu Z	Right	0.107	0.209	0.017	0.316	0.124	0.226	0.333	No
	Тор	0.006	0.209	0.017	0.215	0.023	0.226	0.232	No
	Bottom	0.321	0.209	0.017	0.530	0.338	0.226	0.547	No
	Front	0.250	0.209	0.017	0.459	0.267	0.226	0.476	No
	Back	0.391	0.209	0.017	0.600	0.408	0.226	0.617	No
LTE Band 4	Left	0.356	0.209	0.017	0.565	0.373	0.226	0.582	No
LIE Danu 4	Right	0.095	0.209	0.017	0.304	0.112	0.226	0.321	No
	Тор	0.009	0.209	0.017	0.218	0.026	0.226	0.235	No
	Bottom	0.304	0.209	0.017	0.513	0.321	0.226	0.530	No
	Front	0.326	0.209	0.017	0.535	0.343	0.226	0.552	No
ITE Dand F	Back	0.573	0.209	0.017	0.782	0.590	0.226	0.799	No
LTE Band 5	Left	0.511	0.209	0.017	0.720	0.528	0.226	0.737	No
	Right	0.033	0.209	0.017	0.242	0.050	0.226	0.259	No



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	Тор	0.006	0.209	0.017	0.215	0.023	0.226	0.232	No
	Bottom	0.424	0.209	0.017	0.633	0.441	0.226	0.650	No
	Front	0.751	0.209	0.017	0.960	0.768	0.226	0.977	No
	Back	1.019	0.209	0.017	1.228	1.036	0.226	1.245	No
LTE Dand 7	Left	0.788	0.209	0.017	0.997	0.805	0.226	1.014	No
LTE Band 7	Right	0.056	0.209	0.017	0.265	0.073	0.226	0.282	No
	Тор	0.017	0.209	0.017	0.226	0.034	0.226	0.243	No
	Bottom	0.774	0.209	0.017	0.983	0.791	0.226	1.000	No
	Front	0.137	0.209	0.017	0.346	0.154	0.226	0.363	No
	Back	0.240	0.209	0.017	0.449	0.257	0.226	0.466	No
LTE Dand CC	Left	0.204	0.209	0.017	0.413	0.221	0.226	0.430	No
LTE Band 66	Right	0.010	0.209	0.017	0.219	0.027	0.226	0.236	No
	Тор	0.003	0.209	0.017	0.212	0.020	0.226	0.229	No
	Bottom	0.206	0.209	0.017	0.415	0.223	0.226	0.432	No



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2) Simultaneous Transmission SAR Summation Scenario for extremity

2) Simultaneous Transmission SAR Summation Scenario for extremity												
WWAN Band	Exposure position	①MAX. WWAN SAR (W/kg)	②MAX. WLAN 2.4GHz SAR(W/kg)	③MAX. BT SAR (W/kg)	Summed SAR ①+②	Summed SAR ①+③	Summed SAR ②+③	Summed SAR ①+②+③	Case NO.			
	Front	0.340	0.167	0.013	0.507	0.353	0.180	0.520	No			
	Back	0.513	0.167	0.013	0.680	0.526	0.180	0.693	No			
GSM850	Left	0.430	0.167	0.013	0.597	0.443	0.180	0.610	No			
GSIVIOSU	Right	0.034	0.167	0.013	0.201	0.047	0.180	0.214	No			
	Тор	0.008	0.167	0.013	0.175	0.021	0.180	0.188	No			
	Bottom	0.411	0.167	0.013	0.578	0.424	0.180	0.591	No			
	Front	0.396	0.167	0.013	0.563	0.409	0.180	0.576	No			
	Back	0.687	0.167	0.013	0.854	0.700	0.180	0.867	No			
GSM1900	Left	0.463	0.167	0.013	0.630	0.476	0.180	0.643	No			
GSWI1900	Right	0.037	0.167	0.013	0.204	0.050	0.180	0.217	No			
	Тор	0.006	0.167	0.013	0.173	0.019	0.180	0.186	No			
	Bottom	0.457	0.167	0.013	0.624	0.470	0.180	0.637	No			
	Front	0.751	0.167	0.013	0.918	0.764	0.180	0.931	No			
	Back	0.910	0.167	0.013	1.077	0.923	0.180	1.090	No			
LTE Band	Left	0.687	0.167	0.013	0.854	0.700	0.180	0.867	No			
2	Right	0.236	0.167	0.013	0.403	0.249	0.180	0.416	No			
	Тор	0.013	0.167	0.013	0.180	0.026	0.180	0.193	No			
	Bottom	0.727	0.167	0.013	0.894	0.740	0.180	0.907	No			
	Front	0.419	0.167	0.013	0.586	0.432	0.180	0.599	No			
	Back	0.501	0.167	0.013	0.668	0.514	0.180	0.681	No			
LTE Band	Left	0.450	0.167	0.013	0.617	0.463	0.180	0.630	No			
4	Right	0.131	0.167	0.013	0.298	0.144	0.180	0.311	No			
	Тор	0.021	0.167	0.013	0.188	0.034	0.180	0.201	No			
	Bottom	0.442	0.167	0.013	0.609	0.455	0.180	0.622	No			
	Front	0.509	0.167	0.013	0.676	0.522	0.180	0.689	No			
LTE Band	Back	0.619	0.167	0.013	0.786	0.632	0.180	0.799	No			
5	Left	0.517	0.167	0.013	0.684	0.530	0.180	0.697	No			
	Right	0.038	0.167	0.013	0.205	0.051	0.180	0.218	No			



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	Тор	0.004	0.167	0.013	0.171	0.017	0.180	0.184	No
	Bottom	0.593	0.167	0.013	0.760	0.606	0.180	0.773	No
	Front	0.148	0.167	0.013	0.315	0.161	0.180	0.328	No
	Back	1.829	0.167	0.013	1.996	1.842	0.180	2.009	No
LTE Band	Left	0.166	0.167	0.013	0.333	0.179	0.180	0.346	No
7	Right	0.013	0.167	0.013	0.180	0.026	0.180	0.193	No
	Тор	0.002	0.167	0.013	0.169	0.015	0.180	0.182	No
	Bottom	0.173	0.167	0.013	0.340	0.186	0.180	0.353	No
	Front	0.315	0.167	0.013	0.482	0.328	0.180	0.495	No
	Back	0.448	0.167	0.013	0.615	0.461	0.180	0.628	No
LTE Band	Left	0.409	0.167	0.013	0.576	0.422	0.180	0.589	No
66	Right	0.036	0.167	0.013	0.203	0.049	0.180	0.216	No
	Тор	0.007	0.167	0.013	0.174	0.020	0.180	0.187	No
	Bottom	0.389	0.167	0.013	0.556	0.402	0.180	0.569	No



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9 Equipment list

Test Platform	SPEAG DASY5 Professional
Location	Compliance Certification Services (Kunshan) Inc.
Software Reference	DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Hardware Reference

	Transmit Noticione											
	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration						
\boxtimes	PC	HP	Core(rm)3.16G	CZCO48171H	N/A	N/A						
\boxtimes	Signal Generator	Agilent	N5182A	MY50142015	2020/09/25	2021/09/24						
\boxtimes	S-Parameter Network Analyzer	Agilent	E5071B	MY42301382	2021/02/01	2022/01/31						
\boxtimes	DAK-3.5 probe	SPEAG	DAK-3.5	1102	N/A	N/A						
	Power meter	Anritsu	ML2495A	1445010	2021/04/15	2022/04/14						
\boxtimes	Power sensor	Anritsu	MA2411B	1339220	2021/04/15	2022/04/14						
\boxtimes	Wireless Communication Test Set	R&S	CMU200	109525	2020/10/19	2021/10/18						
	universal Radio communication tester	R&S	CMW500	159275	2020/10/19	2021/10/18						
\boxtimes	DAE	SPEAG	DAE4	1245	2021/05/19	2022/05/18						
\boxtimes	E-field PROBE	SPEAG	EX3DV4	3798	2021/05/31	2022/05/30						
	Dipole	SPEAG	D835V2	4d114	2019/06/11	2022/06/10						
\boxtimes	Dipole	SPEAG	D1800V2	2d170	2019/06/11	2022/06/10						
\boxtimes	Dipole	SPEAG	D1900V2	5d136	2019/06/11	2022/06/10						
\boxtimes	Dipole	SPEAG	D2600V2	1158	2019/03/08	2022/03/07						
\boxtimes	Electro Thermometer	DTM	DTM3000	3030	2020/10/24	2021/10/23						
	Amplifier	Mini-circuits	ZVE-8G	110405	N/A	N/A						
\boxtimes	Amplifier	Mini-circuits	ZHL-42	QA1331003	N/A	N/A						
\boxtimes	3db ATTENUATOR	MINI	MCL BW-S3W5	0533	N/A	N/A						
\boxtimes	DUMMY PROBE	SPEAG	DP_2	SPDP2001AA	N/A	N/A						
\boxtimes	Dual Directional Coupler	Woken	20W couple	DOM2BHW1A1	N/A	N/A						
\boxtimes	SAM PHANTOM (ELI4 v4.0)	SPEAG	QDOVA001BB	1102	N/A	N/A						
\boxtimes	Twin SAM Phantom	SPEAG	QD000P40CD	1609	N/A	N/A						
\boxtimes	ROBOT	SPEAG	TX60	F10/5E6AA1/A101	N/A	N/A						
\boxtimes	ROBOT KRC	SPEAG	CS8C	F10/5E6AA1/C101	N/A	N/A						
\boxtimes	LIQUID CALIBRATION KIT	ANTENNESSA	41/05 OCP9	00425167	N/A	N/A						

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

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

No.10, Weiye Rd., Innovation Park, Eco & Tec. Development Part, Kunshan City, Jiangsu Province, China.



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10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D



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Appendix A: Detailed System Check Results

The plots are showing as followings.



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Date: 2021/08/30

Test Laboratory: Compliance Certification Services Inc.

System Performance Check-Head 835MHz

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d114

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1 Medium parameters used: f = 835 MHz; σ = 0.909 S/m; ϵ_r = 42.04; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(9.52, 9.52, 9.52); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

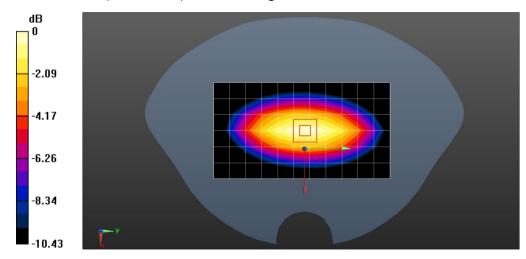
Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

Phantom: Twin SAM Phantom: Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check at Frequencies Low 1 GHz/d=15mm, Pin=250 mW, **dist=3.0mm (EX-Probe)/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 2.36 W/kg

System Performance Check at Frequencies Low 1 GHz/d=15mm, Pin=250 mW, dist=3.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 52.33 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 2.82 W/kg
SAR(1 g) = 2.34 W/kg; SAR(10 g) = 1.52 W/kg
Maximum value of SAR (measured) = 2.38 W/kg



0 dB = 2.38 W/kg = 3.77 dBW/kg



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Date: 2021/08/31

Test Laboratory: Compliance Certification Services Inc.

System Performance Check-Head 1800MHz

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: 2d170

Communication System: UID 10000, CW; Frequency: 1800 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1800 MHz; σ = 1.384 S/m; ϵ_r = 40.258; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(8.22, 8.22, 8.22); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

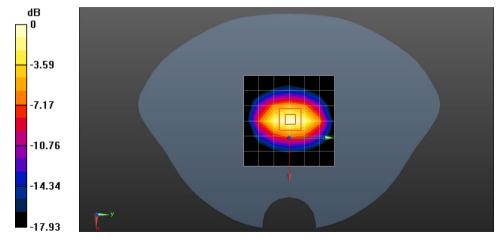
Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe) (23.6 dBm)/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 12.9 W/kg

System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe) (23.6 dBm)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 98.05 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 16.9 W/kg SAR(1 g) = 9.51 W/kg; SAR(10 g) = 5.04 W/kg Maximum value of SAR (measured) = 13.0 W/kg



0 dB = 13.0 W/kg = 11.14 dBW/kg



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Date: 2021/09/01

Test Laboratory: Compliance Certification Services Inc.

System Performance Check-Head 1900MHz

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

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1900 MHz; σ = 1.389 S/m; ϵ_r = 40.284; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(7.89, 7.89, 7.89); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

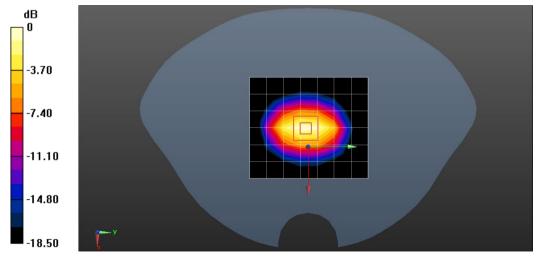
Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check at Frequencies above 1 GHz/Pin=250 mW, dist=10mm (EX-Probe)/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 14.1 W/kg

System Performance Check at Frequencies above 1 GHz/Pin=250 mW, dist=10mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm Reference Value = 103.7 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 18.8 W/kg SAR(1 g) = 9.88 W/kg; SAR(10 g) = 5.09 W/kg Maximum value of SAR (measured) = 14.4 W/kg



0 dB = 14.4 W/kg = 11.58 dBW/kg



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Report No.: KSEM210800147001

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Date: 2021/09/03

Test Laboratory: Compliance Certification Services Inc.

System Performance Check-Head 2600MHz

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1158

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2600 MHz; σ = 2.012 S/m; ϵ_r = 39.651; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(7.13, 7.13, 7.13); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

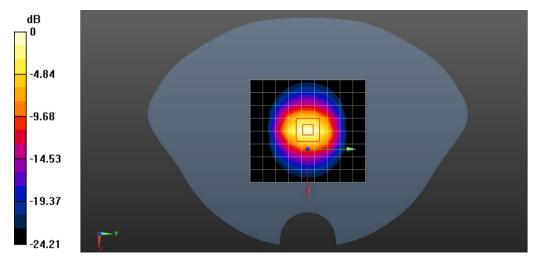
Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check at Frequencies above 1 GHz/Pin=250 mW, dist=10mm (EX-Probe)/Area Scan (9x10x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 19.4 W/kg

System Performance Check at Frequencies above 1 GHz/Pin=250 mW, dist=10mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm Reference Value = 105.1 V/m; Power Drift = 0.11 dB Peak SAR (extrapolated) = 29.7 W/kg SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.23 W/kg Maximum value of SAR (measured) = 21.6 W/kg



0 dB = 21.6 W/kg = 13.34 dBW/kg



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Appendix B: Detailed Test Results

The plots of worse case are showing as followings.



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Report No.: KSEM210800147001

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Date: 2021/08/30

Test Laboratory: Compliance Certification Services Inc.

GSM850 GPRS3TS Back side Ch128 10mm

DUT: Mobile POS: Type: QPOS Plus

Communication System: UID 0, GPRS/EGPRS 3TX Slots (0); Frequency: 824.2 MHz; Duty

Cycle: 1:2.77013

Medium parameters used: f = 824.2 MHz: $\sigma = 0.897 \text{ S/m}$: $\epsilon_r = 42.078$: $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(9.52, 9.52, 9.52); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

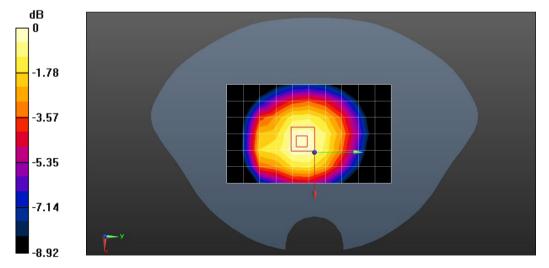
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.646 W/kg

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

dy=8mm, dz=5mm

Reference Value = 26.98 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 0.732 W/kg SAR(1 g) = 0.412 W/kg; SAR(10 g) = 0.237 W/kg Maximum value of SAR (measured) = 0.677 W/kg



0 dB = 0.677 W/kg = -1.69 dBW/kg



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Date: 2021/08/30

Test Laboratory: Compliance Certification Services Inc.

GSM850 GPRS3TS Back side Ch128 0mm

DUT: Mobile POS; Type: QPOS Plus

Communication System: UID 0, GPRS/EGPRS 3TX Slots (0); Frequency: 824.2 MHz;Duty Cycle: 1:2.77013

Medium parameters used: f = 824.2 MHz; $\sigma = 0.897 \text{ S/m}$; $\epsilon_r = 42.078$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(9.52, 9.52, 9.52); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

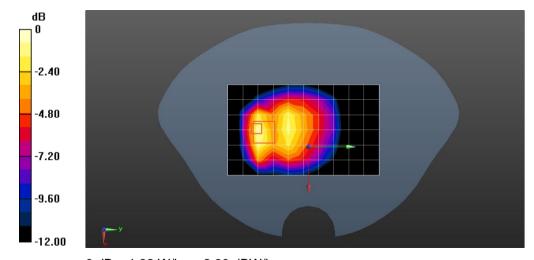
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.60 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm.

dy=8mm, dz=5mm

Reference Value = 28.86 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 2.85 W/kg SAR(1 g) = 0.819 W/kg; SAR(10 g) = 0.451 W/kg Maximum value of SAR (measured) = 1.82 W/kg



0 dB = 1.82 W/kg = 2.60 dBW/kg



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Date: 2021/09/01

Test Laboratory: Compliance Certification Services Inc.

GSM1900 GPRS4TS Back side Ch810 10mm

DUT: Mobile POS; Type: QPOS Plus

Communication System: UID 0, GPRS/EGPRS 4TX Slots (0); Frequency: 1909.8 MHz;Duty Cycle: 1:2.0797

Medium parameters used: f = 1910 MHz; $\sigma = 1.401 \text{ S/m}$; $\epsilon_r = 40.224$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(7.89, 7.89, 7.89); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

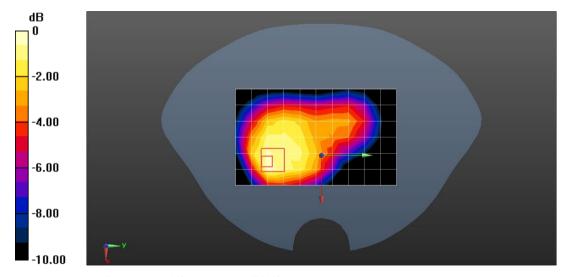
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.593 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm.

dy=8mm, dz=5mm

Reference Value = 15.24 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 0.798 W/kg SAR(1 g) = 0.335 W/kg; SAR(10 g) = 0.187 W/kg Maximum value of SAR (measured) = 0.632 W/kg



0 dB = 0.632 W/kg = -1.99 dBW/kg



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Date: 2021/09/01

Test Laboratory: Compliance Certification Services Inc.

GSM1900 GPRS4TS Back side Ch810 0mm

DUT: Mobile POS; Type: QPOS Plus

Communication System: UID 0, GPRS/EGPRS 4TX Slots (0); Frequency: 1909.8 MHz;Duty Cycle: 1:2.0797

Medium parameters used: f = 1910 MHz; $\sigma = 1.401 \text{ S/m}$; $\epsilon_r = 40.224$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(7.89, 7.89, 7.89); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

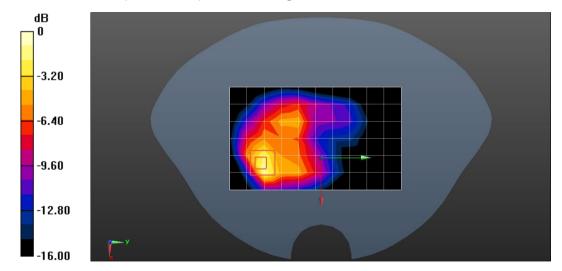
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 2.94 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm.

dy=8mm, dz=5mm

Reference Value = 13.09 V/m; Power Drift = 0.13 dB Peak SAR (extrapolated) = 5.43 W/kg SAR(1 g) = 1.32 W/kg; SAR(10 g) = 0.615 W/kg Maximum value of SAR (measured) = 3.77 W/kg



0 dB = 3.77 W/kg = 5.76 dBW/kg



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Date: 2021/09/01

Test Laboratory: Compliance Certification Services Inc.

LTE Band 2 20M QPSK 1RB0 Back side Ch18700 10mm

DUT: Mobile POS; Type: QPOS Plus

Communication System: UID 0, FDD_LTE (0); Frequency: 1860 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1860 MHz; σ = 1.356 S/m; ϵ_r = 40.419; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(7.89, 7.89, 7.89); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

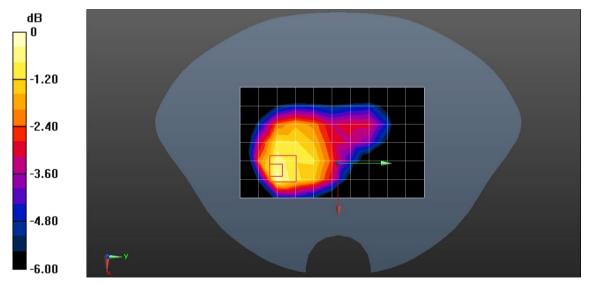
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.560 W/kg

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

dy=8mm, dz=5mm

Reference Value = 15.09 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.750 W/kg SAR(1 g) = 0.395 W/kg; SAR(10 g) = 0.230 W/kg Maximum value of SAR (measured) = 0.594 W/kg



0 dB = 0.594 W/kg = -2.26 dBW/kg



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Date: 2021/09/01

Test Laboratory: Compliance Certification Services Inc.

LTE Band 2 20M QPSK 1RB0 Back side Ch18700 0mm

DUT: Mobile POS; Type: QPOS Plus

Communication System: UID 0, FDD_LTE (0); Frequency: 1860 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1860 MHz; σ = 1.356 S/m; ϵ_r = 40.419; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(7.89, 7.89, 7.89); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

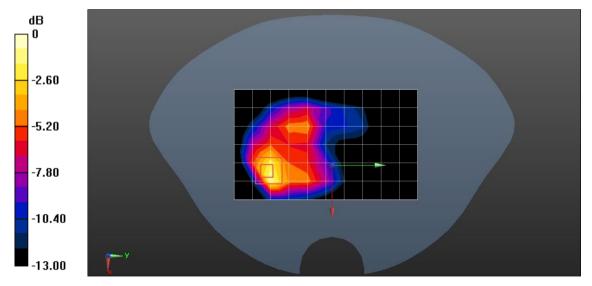
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 2.68 W/kg

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

dy=8mm, dz=5mm

Reference Value = 12.96 V/m; Power Drift = -0.13 dB Peak SAR (extrapolated) = 4.78 W/kg SAR(1 g) = 1.87 W/kg; SAR(10 g) = 0.811 W/kg Maximum value of SAR (measured) = 3.36 W/kg



0 dB = 3.36 W/kg = 5.26 dBW/kg



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Date: 2021/08/31

Test Laboratory: Compliance Certification Services Inc.

LTE Band 4 20M QPSK 1RB50 Back side Ch20300 10mm

DUT: Mobile POS; Type: QPOS Plus

Communication System: UID 0, FDD_LTE (0); Frequency: 1745 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1745 MHz; σ = 1.336 S/m; ϵ_r = 40.697; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(8.22, 8.22, 8.22); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

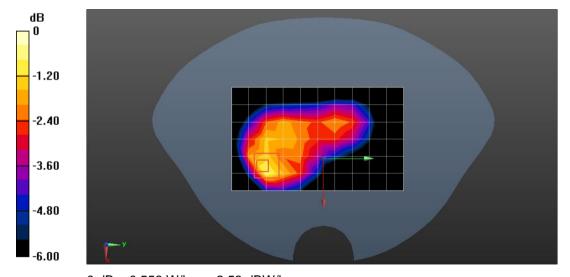
Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.479 W/kg

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

dy=8mm, dz=5mm

Reference Value = 15.07 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.686 W/kg SAR(1 g) = 0.367 W/kg; SAR(10 g) = 0.210 W/kg Maximum value of SAR (measured) = 0.558 W/kg



0 dB = 0.558 W/kg = -2.53 dBW/kg



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Date: 2021/08/31

Test Laboratory: Compliance Certification Services Inc.

LTE Band 4 20M QPSK 1RB50 Back side Ch20300 0mm

DUT: Mobile POS; Type: QPOS Plus

Communication System: UID 0, FDD_LTE (0); Frequency: 1745 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1745 MHz; σ = 1.336 S/m; ϵ_r = 40.697; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(8.22, 8.22, 8.22); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

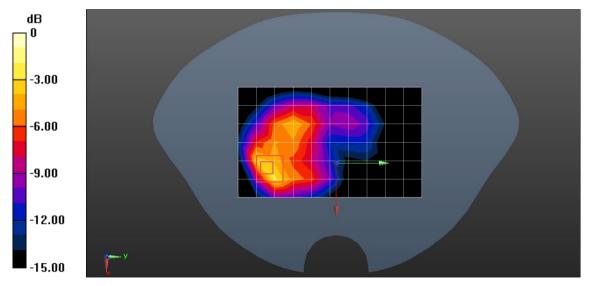
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.28 W/kg

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

dy=8mm, dz=5mm

Reference Value = 10.77 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 3.11 W/kg SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.471 W/kg Maximum value of SAR (measured) = 2.34 W/kg



0 dB = 2.34 W/kg = 3.69 dBW/kg



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Date: 2021/08/30

Test Laboratory: Compliance Certification Services Inc.

LTE Band 5 10M QPSK 1RB25 Back side Ch20525 10mm

DUT: Mobile POS; Type: QPOS Plus

Communication System: UID 0, FDD_LTE (0); Frequency: 836.5 MHz; Duty Cycle: 1:1 Medium parameters used: f = 836.5 MHz; σ = 0.901 S/m; ϵ_r = 42.028; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(9.52, 9.52, 9.52); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

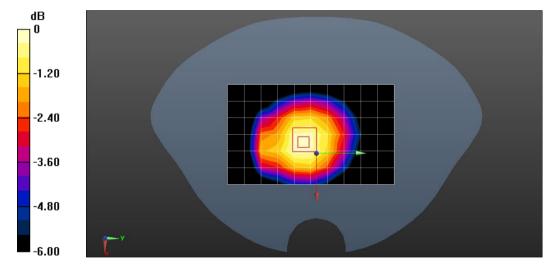
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.629 W/kg

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

dy=8mm, dz=5mm

Reference Value = 26.60 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.710 W/kg SAR(1 g) = 0.557 W/kg; SAR(10 g) = 0.436 W/kg Maximum value of SAR (measured) = 0.658 W/kg



0 dB = 0.658 W/kg = -1.82 dBW/kg



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Date: 2021/08/30

Test Laboratory: Compliance Certification Services Inc.

LTE Band 5 10M QPSK 1RB25 Back side Ch20525 0mm

DUT: Mobile POS; Type: QPOS Plus

Communication System: UID 0, FDD_LTE (0); Frequency: 836.5 MHz; Duty Cycle: 1:1 Medium parameters used: f = 836.5 MHz; σ = 0.901 S/m; ϵ_r = 42.028; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(9.52, 9.52, 9.52); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

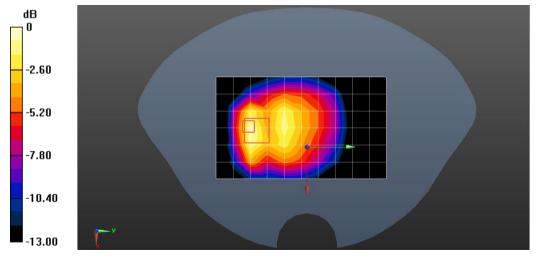
Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.54 W/kg

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

dy=8mm, dz=5mm

Reference Value = 28.29 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.59 W/kg SAR(1 g) = 0.994 W/kg; SAR(10 g) = 0.602 W/kg Maximum value of SAR (measured) = 1.69 W/kg



0 dB = 1.69 W/kg = 2.28 dBW/kg



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Date: 2021/09/03

Test Laboratory: Compliance Certification Services Inc.

LTE Band 7 20M QPSK 1RB50 Back side Ch20850 10mm

DUT: Mobile POS; Type: QPOS Plus

Communication System: UID 0, FDD_LTE (0); Frequency: 2510 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2510 MHz; σ = 1.914 S/m; ϵ_r = 39.995; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(7.13, 7.13, 7.13); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

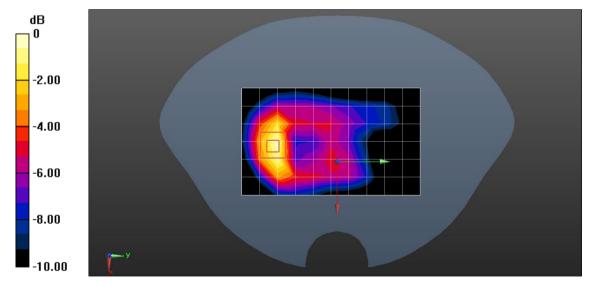
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.35 W/kg

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

dy=8mm, dz=5mm

Reference Value = 15.22 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 1.78 W/kg SAR(1 g) = 0.863 W/kg; SAR(10 g) = 0.423 W/kg Maximum value of SAR (measured) = 1.42 W/kg



0 dB = 1.42 W/kg = 1.52 dBW/kg



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Date: 2021/09/03

Test Laboratory: Compliance Certification Services Inc.

LTE Band 7 20M QPSK 1RB50 Back side Ch21350 0mm

DUT: Mobile POS; Type: QPOS Plus

Communication System: UID 0, FDD_LTE (0); Frequency: 2560 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2560 MHz; σ = 1.962 S/m; ϵ_r = 39.804; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(7.13, 7.13, 7.13); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

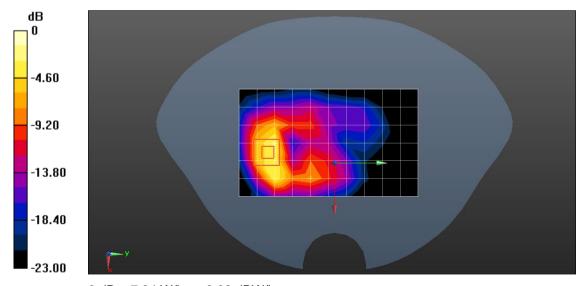
Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 4.34 W/kg

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

dy=8mm, dz=5mm

Reference Value = 11.74 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 10.1 W/kg SAR(1 g) = 4.1 W/kg; SAR(10 g) = 1.66 W/kg Maximum value of SAR (measured) = 7.94 W/kg



0 dB = 7.94 W/kg = 9.00 dBW/kg



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Date: 2021/08/31

Test Laboratory: Compliance Certification Services Inc.

LTE Band 66 20M QPSK 1RB50 Back side Ch132322 10mm

DUT: Mobile POS; Type: QPOS Plus

Communication System: UID 0, FDD_LTE (0); Frequency: 1745 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1745 MHz; σ = 1.336 S/m; ϵ_r = 40.697; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(8.22, 8.22, 8.22); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

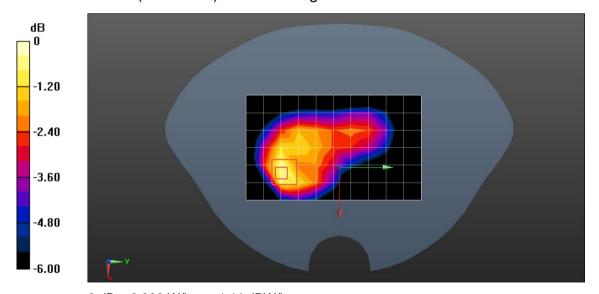
Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.327 W/kg

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

dy=8mm, dz=5mm

Reference Value = 12.57 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.445 W/kg SAR(1 g) = 0.231 W/kg; SAR(10 g) = 0.133 W/kg Maximum value of SAR (measured) = 0.360 W/kg



0 dB = 0.360 W/kg = -4.44 dBW/kg



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Date: 2021/08/31

Test Laboratory: Compliance Certification Services Inc.

LTE Band 66 20M QPSK 1RB50 Back side Ch132322 0mm

DUT: Mobile POS; Type: QPOS Plus

Communication System: UID 0, FDD_LTE (0); Frequency: 1745 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1745 MHz; σ = 1.336 S/m; ϵ_r = 40.697; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(8.22, 8.22, 8.22); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

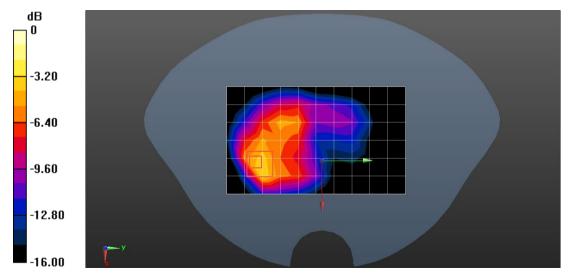
Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.07 W/kg

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

dy=8mm, dz=5mm

Reference Value = 9.250 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 3.04 W/kg SAR(1 g) = 1 W/kg; SAR(10 g) = 0.432 W/kg Maximum value of SAR (measured) = 2.24 W/kg



0 dB = 2.24 W/kg = 3.50 dBW/kg



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Appendix C: Calibration certificate

Appendix D: Photographs

---END---



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