

Report No.: KSEM210700107001

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FCC SAR TEST REPORT

Application No.: KSEM2107001070CR(SZCR2106021812AT)

Applicant: PAX TECHNOLOGY LIMITED

Address of Applicant: Room 2416, 24/F, Sun Hung Kai Centre, 30 Harbour Road, Wanchai,

Hong Kong

Manufacturer: PAX Computer Technology(Shenzhen) Co., Ltd.

Address of Manufacturer: 4/F, No.3 Building, Software Park, Second Central Science Tech Road,

High Tech industrial Park, Shenzhen, Guangdong, P.R.C.

Factory: Guangzhou PAX Computer Technology Co., Ltd

Address of Factory:

No.2 Bldg, No.113 Jinyang Road, Hualong Town, Panyu, Guangzhou,

Guangdong, China

Product Name: Mobile Payment Terminal

Model No.(EUT): D190
Trade mark: PAX

 FCC ID:
 V5PD190LTEBW

 Standard(s):
 FCC 47CFR §2.1093

Date of Receipt: 2021-07-08

Date of Test: 2021-07-30 to 2021-08-06

Date of Issue: 2021-08-11

Test Result: Pass*

Eric Lin

Enia fri

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	2021-08-11	1

Authorized for issue by:		
	Richard. Kong	
	Richard.Kong/ Project Engineer	
	Eni fri	
	Eric.Lin/Reviewer	



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TEST SUMMARY

1201 0011111111111			
Frequency Band	Maximum Reported SAR(W/kg)	Maximum Reported SAR(W/kg)	
Frequency Band	Body	Extremity	
GSM 850	0.423	0.241	
PCS 1900	0.671	0.323	
LTE Band 2	1.172	0.624	
LTE Band 4	0.767	0.373	
LTE Band 5	0.494	0.258	
LTE Band 7	0.564	0.237	
LTE Band 66	0.686	0.331	
WI-FI (2.4GHz)	0.534	0.281	
Bluetooth	0.407	0.163	
SAR Limited(W/kg)	1.6	4	
Maximum Simultaneous Transmission SAR (W/kg)			
Scenario	Body	Extremity	
Sum SAR	1.706	0.905	
SPLSR	0.037	N/A	
SPLSR Limited	0.04	0.1	



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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:	1260263902		
Hardware Version:	D190-xxx-Rx5-0xxx		
Software Version:	15.00.xx.xxxx		
Antenna Type:	PIFA antenna		
Device Operating Configuratio	ns:		
Modulation Mode:		< ; LTE: QPSK,16QAM; OFDM; BT: GFSK, π/4DQPSK	.8DPSK
Antenna Gain:	See Antenna specif		,
Device Class:	В		
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	: 12
	4,tested with powe	r 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:	IS057-E	
	Normal Voltage :	DC3.7V	
Battery Information:	Rated capacity :	1900mAh	
	Battery Type :	Rechargeable Li-ion Battery	
	Manufacturer	ICON ENERGY SYSTEM (SHENZHEN) CO.,LTD.	



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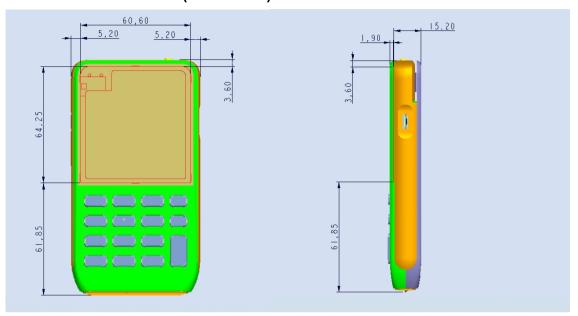
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1.1.1 DUT Antenna Locations(Back View)



Length unit: mm

WiFi Antenna



The test device is a Mobile Payment Terminal. The display diagonal dimension is 62mm and the overall diagonal dimension of this device is 140mm.



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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 Evnocuro	Uncontrolled Environment	Controlled Environment	
Human Exposure	General Population	Occupational	
Spatial Peak SAR*	1.60 \\///	8.00 W/kg	
(Brain*Trunk)	1.60 W/kg		
Spatial Average SAR**	0.08 \\/\/kg	0.40 W/kg	
(Whole Body)	0.08 W/kg		
Spatial Peak SAR***	4.00 W/ka	20 00 W/kg	
(Hands/Feet/Ankle/Wrist)	4.00 W/kg	20.00 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-1600, C-1707, T-1499, 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 2: The Ambient Conditions



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3 SAR Measurements System Configuration

3.1 The SAR Measurement System

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

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

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

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

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

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



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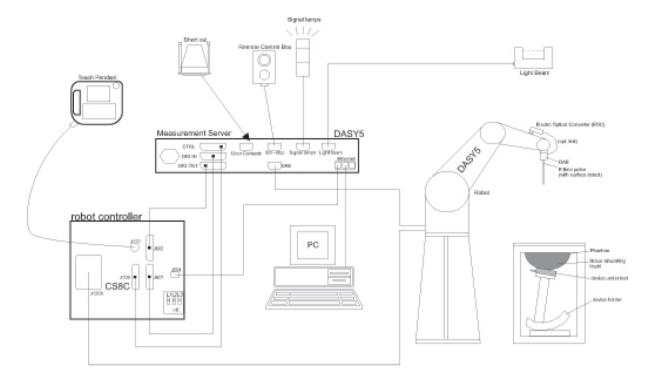
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F-1. SAR Measurement System Configuration

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



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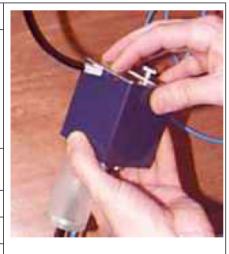


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3.3 Data Acquisition Electronics (DAE)

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 abo 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*		
	uniform	grid: Δz _{Zoom} (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm		
Maximum zoom scan spatial resolution, normal to phantom surface	graded	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 f

- Crest factor c

Media parameters: - Conductivity

- Density ρ

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

3

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

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

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

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

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

cf = crest factor of exciting field (DASY parameter)

dcp i = diode compression point (DASY parameter)



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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

5.1.1 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.



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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 3: 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)	ϵ_{r}	σ (S/m)	ε _r	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	2021/7/30
1800 Head	1800	1.385	40.197	1.40	40.00	-1.07	0.49	±5	22.2	2021/8/3
1900 Head	1900	1.373	40.580	1.40	40.00	-1.93	1.45	±5	22.3	2021/8/2
2450 Head	2450	1.806	38.232	1.80	39.20	0.33	-2.47	±5	22	2021/8/6
2600 Head	2600	1.969	37.735	1.96	39.00	0.46	-3.24	±5	22	2021/8/5

Table 4: Measurement result of Tissue electric parameters



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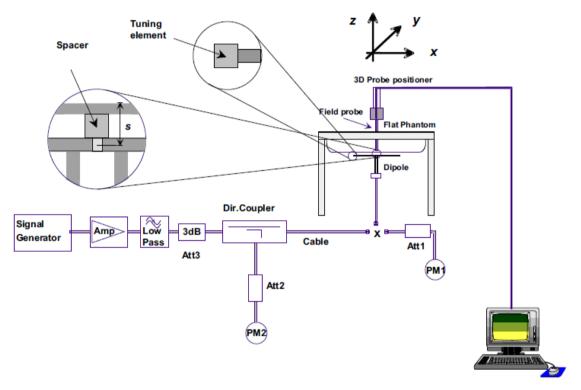


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6.2 SAR System Check

The microwave circuit arrangement for system check is sketched in 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-3. 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)

Validation Kit		Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1w)	Measured SAR (normalized to 1w)	Target SAR (normalized to 1w) (±10%)	Target SAR (normalized to 1w) (±10%)	Liquid Temp. (°C)	Measured Date	
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)			
D835V2	Head	2.38	1.56	9.52	6.24	9.41 (8.47~10.35)	6.25 (5.63~6.88)	22.1	2021/7/30	
D1800V2	Head	9.5	5.11	38	20.44	38.4 (34.56~42.24)	20.2 (18.18~22.22)	22.2	2021/8/3	
D1900V2	Head	9.91	5.23	39.64	20.92	39.7 (35.73~43.67)	20.5 (18.45~22.55)	22.3	2021/8/2	
D2450V2	Head	12.9	5.8	51.6	23.2	53 (47.70~58.30)	24.6 (22.14~27.60)	22	2021/8/6	
D2600V2	Head	13.9	6.2	55.6	24.8	56.2 (50.58~61.82)	25 (22.50~27.50)	22	2021/8/5	

Table 5: SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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7 Test Configuration

7.1 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.

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



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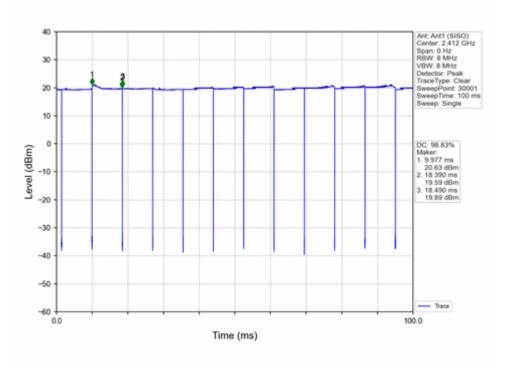
7.1.2 Wi-Fi Test Configuration

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 Duty cycle

1) 2.4GHz Wi-Fi 802.11b:

WI-FI1 802.11b 1M: Duty cycle=98.83%



7.1.2.2 Initial Test Position SAR Test Reduction Procedure

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

- 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



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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.

7.1.2.3 Initial Test Configuration Procedures

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

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

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

7.1.2.4 Subsequent Test Configuration Procedures

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

- 1) . When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration. SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
- 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



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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"

7.1.2.5 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:

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

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

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



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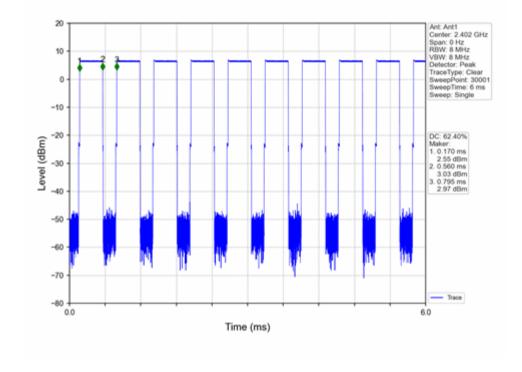
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7.1.3 BluetoothTest Configuration

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.

Duty Cycle=62.40%





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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	Channel bandwidth / Transmission bandwidth (N _{RB})									
	1.4	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 \leq 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

4) Higher order modulations

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



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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

8.1.1 Cond	ucted Po	WCI O	COIVI							
					GSM 8	50				
В	Burst Output Po	wer(dBm)			Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Chann	el	128	190	251	Turie up	DIVISION LACTORS	128	190	251	Turie up
	1 TX Slot	32.36	32.61	32.78	33	-9.19	23.17	23.42	23.59	23.81
GPRS/EGPRS	2 TX Slots	28.26	28.42	28.48	29	-6.18	22.08	22.24	22.3	22.82
(GMSK)	3 TX Slots	26.65	26.8	26.86	27.5	-4.42	22.23	22.38	22.44	23.08
	4 TX Slots	25.41	25.63	25.67	26	-3.17	22.24	22.46	22.5	22.83
	1 TX Slot	32.76	32.5	32.65	33	-9.19	23.57	23.31	23.46	23.81
ECDDS(0DSK)	2 TX Slots	28.21	28.32	28.43	29	-6.18	22.03	22.14	22.25	22.82
EGPRS(8PSK)	3 TX Slots	26.58	26.68	26.78	27	-4.42	22.16	22.26	22.36	22.58
	4 TX Slots	25.41	25.57	25.6	26	-3.17	22.24	22.4	22.43	22.83
					GSM 19	00				
В	Burst Output Po	wer(dBm))		Tune up	Division Factors	Frame-Ave	rage Output F	Power(dBm)	Tune up
Chann	el	512	661	810	Turie up	DIVISION I actors	512	661	810	Turie up
	1 TX Slot	30.1	30.02	30.02	30.5	-9.19	20.91	20.83	20.83	21.31
GPRS/EGPRS	2 TX Slots	24.88	24.54	23.97	25.5	-6.18	18.7	18.36	17.79	19.32
(GMSK)	3 TX Slots	21.72	21.28	20.51	22	-4.42	17.3	16.86	16.09	17.58
	4 TX Slots	20.43	20.06	19.53	21	-3.17	17.26	16.89	16.36	17.83
	1 TX Slot	30.75	30.34	30.9	31.5	-9.19	21.56	21.15	21.71	22.31
ECDDS/0DSIA	2 TX Slots	25.33	24.47	24.02	25.5	-6.18	19.15	18.29	17.84	19.32
EGPRS(8PSK)	3 TX Slots	20.76	20.38	20.84	21	-4.42	16.34	15.96	16.42	16.58
	4 TX Slots	20.35	20.04	19.51	21	-3.17	17.18	16.87	16.34	17.83

Table 6: Conducted Power Of GSM



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8.1.2 Conducted Power Of LTE

	LTE Ban	d 2			Conducted	Power(dBm)
Bandwidth	Modulation	RB size	RB offset	Channel 18607	Channel 18900	Channel 19193	Tune up
		1	0	21.94	21.75	21.72	22.5
		1	2	22.13	21.95	21.72	22.5
		1	5	22.05	21.75	21.61	22.5
	QPSK	3	0	22.24	21.67	21.79	22.5
		3	2	22.43	21.81	21.7	22.5
		3	3	22.28	21.66	21.66	22.5
4 48411-		6	0	21.15	20.7	20.6	22
1.4MHz		1	0	21.66	20.76	20.88	22
		1	2	21.98	20.85	20.86	22
		1	5	21.57	20.68	20.63	22
	16QAM	3	0	21.23	20.85	20.75	22
		3	2	21.42	20.86	20.84	22
		3	3	21.39	20.81	20.8	22
		6	0	20.42	19.85	19.63	21
Bandwidth	Modulation	DP size	RB offset	Channel	Channel	Channel	Tungun
Danuwiutii	Modulation	RB size	KD Ullset	18615	18900	19185	Tune up
		1	0	22.33	21.59	21.82	22.5
		1	7	22.36	21.57	21.61	22.5
		1	14	22.33	21.85	21.76	22.5
	QPSK	8	0	21.13	20.6	20.63	22.5
		8	4	21.26	20.61	20.63	22.5
		8	7	21.29	20.58	20.59	22.5
3MHz		15	0	21.24	20.6	20.74	22
SIVITIZ		1	0	21	20.64	20.68	22
		1	7	22.17	20.48	20.96	22
		1	14	22.27	20.41	20.79	22
	16QAM	8	0	20.39	19.81	19.67	22
		8	4	20.43	19.73	19.77	22
		8	7	20.45	19.68	20.02	22
		15	0	20.49	19.79	19.85	21
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawidin	Wodalation	TO SIZE		18625	18900	19175	•
		1	0	22.04	21.95	21.65	22.5
		1	13	22.22	21.74	21.63	22.5
5MHz	QPSK	1	24	22.09	21.74	21.65	22.5
J.VII 12	QI OIX	12	0	21.14	20.75	20.76	22.5
		12	6	21.35	20.7	20.6	22.5
		12	13	21.2	20.83	20.53	22.5



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		25	0	21.09	20.84	20.74	22
-		1	0	21.09	20.53	20.74	22
		1	13	21.19	20.55	19.84	21.5
		1	24	1	20.46	1	21.5
	16QAM	12	0	21.51		19.6	21
	IOQAIVI	12	6	19.98	19.64	19.74	
		12	+	19.86	19.62	19.67	21 21
			13	20.13	19.73	19.59	
		25	0	20.05	19.86	19.94	21
Bandwidth	Modulation	RB size	RB offset	Channel 18650	Channel	Channel	Tune up
		4			18900	19150	22.5
		1	0	22.3	22.05	21.91	22.5
		1	25	22.55	21.61	21.5	22.5
		1	49	22.38	21.73	21.45	22.5
	QPSK	25	0	21.18	20.96	20.9	22.5
		25	13	21.31	20.81	20.61	22.5
		25	25	21.22	20.79	20.61	22.5
10MHz		50	0	21.11	20.88	20.81	22
TOWITIZ		1	0	21.72	21.47	21.16	22
		1	25	22.12	20.36	20.84	22
		1	49	22.14	20.35	20.76	22
	16QAM	25	0	20.1	20.07	19.94	21
		25	13	20.38	20	19.71	21
		25	25	20.39	19.96	19.69	21
		50	0	20.32	20.02	19.77	21
		·	55 %	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	18675	18900	19125	Tune up
		1	0	22.07	21.92	22.03	22.5
		1	38	22.36	21.53	21.75	22.5
		1	74	21.84	21.69	21.43	22.5
	QPSK	36	0	21.14	20.9	20.92	22.5
		36	18	21.21	20.74	20.69	22.5
		36	39	21.02	20.67	20.58	22.5
15MHz		75	0	21.15	20.83	20.86	22
ISIVITIZ		1	0	21.73	20.72	20.82	22
		1	38	22.48	20.03	20.62	22
		1	74	21.46	20.06	20.8	22
	16QAM	36	0	20.09	19.96	19.88	21
		36	18	20.42	19.67	19.83	21
		36	39	20.37	19.61	19.61	21
		75	0	20.17	19.75	19.93	21
Bandwidth	Modulation	RB size	RB offset	Channel 18700	Channel 18900	Channel 19100	Tune up
0014::	OPOL	1	0	22.42	22.21	21.48	23
20MHz	QPSK	1	50	22.67	21.76	22.01	23



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	1	99	22.07	22.01	21.19	22.5
	50	0	21.23	20.87	20.74	22
	50	25	21.14	20.62	20.8	22
	50	50	21.03	20.59	20.5	22
	100	0	21.28	20.72	20.76	22
	1	0	21.33	20.93	20.47	22
	1	50	21.34	21.42	21.63	22
	1	99	21.08	21.79	20.34	22
16QAM	50	0	20.39	20.05	19.97	21
	50	25	20.34	19.82	19.95	21
	50	50	20.04	19.68	19.66	21
	100	0	20.28	19.95	19.82	21

	LTE Bai	nd 4			Conducted P	ower(dBm)		
Dan desidable	Madulation	DD -:	DD offeet	Channel	Channel	Channel	T	
Bandwidth	Modulation	RB size	RB offset	19957	20175	20393	Tune up	
		1	0	22.46	22.46	22.69	23	
		1	2	22.46	22.63	22.85	23	
	QPSK	1	5	22.34	22.34	22.58	23	
		3	0	22.36	22.26	22.29	23	
		3	2	22.41	22.4	22.43	23	
		3	3	22.47	22.37	22.26	23	
1.4MHz		6	0	21.08	21.28	21.27	22	
1.4WITZ			1	0	21.61	21.13	21.54	22
			1	2	21.86	21.15	21.51	22
		1	5	21.61	21.14	21.36	22	
	16QAM	3	0	21.22	21.5	21.42	22	
		3	2	21.24	21.53	21.5	22	
		3	3	21.25	21.63	21.45	22	
		6	0	20.01	20.4	20.3	21	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
Balluwiutii	Modulation	ND SIZE	KB Oliset	19965	20175	20385	rune up	
		1	0	22.63	22.53	22.35	23	
		1	7	22.57	22.45	22.38	23	
		1	14	22.52	22.55	22.56	23	
	QPSK	8	0	21.19	21.46	21.42	23	
3MHz		8	4	21.17	21.38	21.44	23	
		8	7	21.27	21.48	21.38	23	
		15	0	21.26	21.48	21.57	22	
	16QAM	1	0	21.95	21.09	21.23	22	
	IOQAM	1	7	21.93	21.12	21.74	22	



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	<u> </u>	1	14	24.42	04.44	24.0	22
		•		21.43	21.44	21.6	22
		8	0	20.17	20.38	21.04	
		8	7	20.06	20.32	20.41	22
		8		20.05	20.4	20.38	22
		15	0	20.01	20.6	20.4	21
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
		4	0	19975	20175	20375	
		1	0	22.24	22.44	22.51	23
		1	13	22.12	22.57	22.24	23
	O DOL	1	24	22.5	22.69	22.51	23
	QPSK	12	0	21.38	21.42	21.46	23
		12	6	21.13	21.53	21.36	23
		12	13	21.35	21.64	21.59	23
5MHz		25	0	21.42	21.53	21.53	22
_		1	0	21.31	21.1	21.05	22
		1	13	20.99	21.21	20.54	22
		1	24	21.58	21.31	20.51	22
	16QAM	12	0	20.31	20.26	20.52	22
		12	6	20.19	20.26	20.43	22
		12	13	20.3	20.59	20.53	22
		25	0	20.42	20.51	20.71	21
		,	-		_0.0.		
Randwidth	Modulation			Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset				Tune up
Bandwidth	Modulation			Channel	Channel	Channel	Tune up
Bandwidth	Modulation	RB size	RB offset	Channel 20000	Channel 20175	Channel 20350	Tune up
Bandwidth	Modulation	RB size	RB offset	Channel 20000 22.22	Channel 20175 22.75	Channel 20350 22.58	Tune up
Bandwidth	Modulation	RB size	RB offset 0 25	Channel 20000 22.22 22.22	Channel 20175 22.75 22.67	Channel 20350 22.58 22.19	Tune up 23 23
Bandwidth		RB size 1 1 1	RB offset 0 25 49	Channel 20000 22.22 22.22 22.54	Channel 20175 22.75 22.67 22.31	Channel 20350 22.58 22.19 22.44	Tune up 23 23 23
Bandwidth		RB size 1 1 1 25	RB offset 0 25 49 0	Channel 20000 22.22 22.22 22.54 21.39	Channel 20175 22.75 22.67 22.31 21.41	Channel 20350 22.58 22.19 22.44 21.47	Tune up 23 23 23 23 23
		RB size 1 1 1 25 25	RB offset 0 25 49 0 13	Channel 20000 22.22 22.22 22.54 21.39 21.26	Channel 20175 22.75 22.67 22.31 21.41 21.53	Channel 20350 22.58 22.19 22.44 21.47 21.38	Tune up 23 23 23 23 23 23
Bandwidth 10MHz		RB size 1 1 1 25 25 25	RB offset 0 25 49 0 13 25	Channel 20000 22.22 22.22 22.54 21.39 21.26 21.42	Channel 20175 22.75 22.67 22.31 21.41 21.53 21.54	Channel 20350 22.58 22.19 22.44 21.47 21.38 21.37	Tune up 23 23 23 23 23 23 23 23
		RB size 1 1 1 25 25 25 50	RB offset 0 25 49 0 13 25 0	Channel 20000 22.22 22.22 22.54 21.39 21.26 21.42 21.36	Channel 20175 22.75 22.67 22.31 21.41 21.53 21.54 21.43	Channel 20350 22.58 22.19 22.44 21.47 21.38 21.37 21.48	Tune up 23 23 23 23 23 23 23 22 22
		RB size 1 1 1 25 25 25 50 1	RB offset 0 25 49 0 13 25 0 0	Channel 20000 22.22 22.22 22.54 21.39 21.26 21.42 21.36 21.88	Channel 20175 22.75 22.67 22.31 21.41 21.53 21.54 21.43 21.3	Channel 20350 22.58 22.19 22.44 21.47 21.38 21.37 21.48 21.88	Tune up 23 23 23 23 23 23 23 22 22 2
		RB size 1 1 1 25 25 25 50 1	RB offset 0 25 49 0 13 25 0 0 25	Channel 20000 22.22 22.22 22.54 21.39 21.26 21.42 21.36 21.88 21.53	Channel 20175 22.75 22.67 22.31 21.41 21.53 21.54 21.43 21.3 22.2	Channel 20350 22.58 22.19 22.44 21.47 21.38 21.37 21.48 21.88 21.1	Tune up 23 23 23 23 23 23 23 22 22 22 22
	QPSK	RB size 1 1 1 25 25 25 50 1 1 1	RB offset 0 25 49 0 13 25 0 0 25 49	Channel 20000 22.22 22.24 21.39 21.26 21.42 21.36 21.88 21.53 21.81	Channel 20175 22.75 22.67 22.31 21.41 21.53 21.54 21.43 21.3 22.2 22.07	Channel 20350 22.58 22.19 22.44 21.47 21.38 21.37 21.48 21.88 21.1 21.55	Tune up 23 23 23 23 23 23 22 22 22 22 22
	QPSK	RB size 1 1 1 25 25 25 50 1 1 1 25	RB offset 0 25 49 0 13 25 0 0 25 49 0	Channel 20000 22.22 22.24 21.39 21.26 21.42 21.36 21.88 21.53 21.81 20.52	Channel 20175 22.75 22.67 22.31 21.41 21.53 21.54 21.43 21.3 22.2 22.07 20.43	Channel 20350 22.58 22.19 22.44 21.47 21.38 21.37 21.48 21.88 21.1 21.55 20.64	Tune up 23 23 23 23 23 23 22 22 22 2
	QPSK	RB size 1 1 1 25 25 25 50 1 1 1 25 25 25	RB offset 0 25 49 0 13 25 0 0 25 49 0 13 13 13	Channel 20000 22.22 22.22 22.54 21.39 21.26 21.42 21.36 21.88 21.53 21.81 20.52 20.15	Channel 20175 22.75 22.67 22.31 21.41 21.53 21.54 21.43 21.3 22.2 22.07 20.43 20.47	Channel 20350 22.58 22.19 22.44 21.47 21.38 21.37 21.48 21.88 21.1 21.55 20.64 20.46	Tune up 23 23 23 23 23 23 22 22 22 2
10MHz	QPSK 16QAM	RB size 1 1 1 25 25 25 50 1 1 1 25 25 25 50 50	RB offset 0 25 49 0 13 25 0 0 25 49 0 13 25 0 0 25 49 0	Channel 20000 22.22 22.24 21.39 21.26 21.42 21.36 21.88 21.53 21.81 20.52 20.15 20.51	Channel 20175 22.75 22.67 22.31 21.41 21.53 21.54 21.43 21.3 22.2 22.07 20.43 20.47 20.58	Channel 20350 22.58 22.19 22.44 21.47 21.38 21.37 21.48 21.88 21.1 21.55 20.64 20.46 20.34	Tune up 23 23 23 23 23 23 22 22 22 22 21 21 21 21
	QPSK	RB size 1 1 1 25 25 25 50 1 1 1 25 25 25 25	RB offset 0 25 49 0 13 25 0 0 25 49 0 13 25 13 25	Channel 20000 22.22 22.22 22.54 21.39 21.26 21.42 21.36 21.88 21.53 21.81 20.52 20.15 20.51 20.35	Channel 20175 22.75 22.67 22.31 21.41 21.53 21.54 21.43 21.3 22.2 22.07 20.43 20.47 20.58 20.42	Channel 20350 22.58 22.19 22.44 21.47 21.38 21.37 21.48 21.88 21.1 21.55 20.64 20.46 20.34 20.62	Tune up 23 23 23 23 23 23 22 22 22 22 21 21 21
10MHz	QPSK 16QAM	RB size 1 1 1 25 25 25 50 1 1 1 25 25 25 50 50	RB offset 0 25 49 0 13 25 0 0 25 49 0 13 25 0 0 25 49 0	Channel 20000 22.22 22.24 22.54 21.39 21.26 21.42 21.36 21.88 21.53 21.81 20.52 20.15 20.51 20.35 Channel	Channel 20175 22.75 22.67 22.31 21.41 21.53 21.54 21.43 21.3 22.2 22.07 20.43 20.47 20.58 20.42 Channel	Channel 20350 22.58 22.19 22.44 21.47 21.38 21.37 21.48 21.88 21.1 21.55 20.64 20.46 20.34 20.62 Channel	Tune up 23 23 23 23 23 23 22 22 22 22 21 21 21 21
10MHz Bandwidth	QPSK 16QAM Modulation	RB size 1 1 1 25 25 25 50 1 1 1 25 25 50 RB size	RB offset 0 25 49 0 13 25 0 0 25 49 0 RB offset	Channel 20000 22.22 22.24 21.39 21.26 21.42 21.36 21.88 21.53 21.81 20.52 20.15 20.51 20.35 Channel 20025	Channel 20175 22.75 22.67 22.31 21.41 21.53 21.54 21.43 21.3 22.2 22.07 20.43 20.47 20.58 20.42 Channel 20175	Channel 20350 22.58 22.19 22.44 21.47 21.38 21.37 21.48 21.88 21.1 21.55 20.64 20.46 20.34 20.62 Channel 20325	Tune up 23 23 23 23 23 23 22 22 22 21 21 21 21 Tune up
10MHz	QPSK 16QAM	RB size 1 1 1 25 25 25 50 1 1 1 25 25 50 RB size 1	RB offset 0 25 49 0 13 25 0 0 25 49 0 RB offset	Channel 20000 22.22 22.24 21.39 21.26 21.42 21.36 21.88 21.53 21.81 20.52 20.15 20.51 20.35 Channel 20025 22.25	Channel 20175 22.75 22.67 22.31 21.41 21.53 21.54 21.43 21.3 22.2 22.07 20.43 20.47 20.58 20.42 Channel 20175 22.25	Channel 20350 22.58 22.19 22.44 21.47 21.38 21.37 21.48 21.88 21.1 21.55 20.64 20.46 20.34 20.62 Channel 20325 22.55	Tune up 23 23 23 23 23 23 22 22 22 21 21 21 21 Tune up 23



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		20	40	04.40	04.05	04.00	00
		36	18	21.12	21.35	21.28	23
		36	39	21.28	21.48	21.3	23
		75	0	21.17	21.26	21.31	22
		1	0	21.9	21.56	21.65	22
		1	38	21.47	21.44	21.59	22
		1	74	21.94	21.4	21.73	22
	16QAM	36	0	20.17	20.32	20.61	21
		36	18	20.13	20.45	20.27	21
		36	39	20.29	20.49	20.41	21
		75	0	20.31	20.35	20.49	21
Dan desidile	NA - de de tiere	DD sins	DD -#+	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	20050	20175	20300	Tune up
		1	0	22.61	22.42	22.66	23
		1	50	22.47	22.83	22.73	23
		1	99	22.65	22.52	22.15	23
	QPSK	50	0	21.2	21.39	21.5	22
		50	25	21.23	21.38	21.41	22
		50	50	21.37	21.26	21.32	22
20MHz		100	0	21.22	21.36	21.43	22
ZUIVINZ		1	0	21.26	21.81	22.25	22.5
		1	50	21.34	22.6	22.15	23
		1	99	21.38	22.5	21.96	23
	16QAM	50	0	20.21	20.4	20.59	21
				-			
	100,	50	25	20.25	20.39	20.42	21
	100,71111	50 50	25 50	20.25 20.35	20.39 20.32	20.42	21 21

	LTE E		Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
Danuwium	iviodulation	ND SIZE	KD Ollset	20407	20525	20643	Tune up
		1	0	23.01	23.02	23	23.5
		1	2	23.08	23.05	23.22	23.5
		1	5	22.96	23.02	23.04	23.5
	QPSK	3	0	23.01	23.05	23.16	23.5
		3	2	23.11	23.11	23.14	23.5
1.4MHz		3	3	22.98	23.08	23.04	23.5
1.411172		6	0	21.92	22.07	22.09	23
		1	0	22.03	22.35	21.82	23
		1	2	22.1	22.98	21.91	23
	16QAM	1	5	22.01	22.88	21.77	23
		3	0	21.77	22.22	22.14	23
		3	2	21.9	22.29	22.17	23



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		3	3	21.54	22.29	22.29	23
		6	0	21.08	21.2	20.96	22
		-		Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20415	20525	20635	Tune up
		1	0	22.97	23.19	23.08	23.5
		1	7	23.17	23.3	23.3	23.5
		1	14	23	23.35	23.09	23.5
	QPSK	8	0	21.91	22.12	22.2	23
		8	4	21.8	22.1	22.22	23
		8	7	21.84	22.26	22.18	23
		15	0	22.04	22.19	22.18	23
3MHz		1	0	22.59	21.82	21.86	23
		1	7	22.13	22.82	21.55	23
		1	14	21.96	22.88	21.7	23
	16QAM	8	0	21.37	20.88	21.03	22
		8	4	21.24	20.86	21.15	22
		8	7	21	20.88	21.31	22
		15	0	21.06	20.82	21.3	22
Do so also si altila	Mandadatina	DD sins	DD -#	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	20425	20525	20625	Tune up
		1	0	22.91	23.27	23.17	23.5
		1	13	22.92	23.34	23.14	23.5
		1	24	22.99	23.3	23.29	23.5
	QPSK	12	0	22.03	22.13	22.34	23
		12	6	21.82	22.16	22.16	23
		12	13	21.82	22.25	22.21	23
5MHz		25	0	21.91	22.12	22.22	23
SIVITZ		1	0	21.57	22.09	21.47	23
		1	13	22.02	22.16	21.24	23
		1	24	22.07	22.17	21.48	23
	16QAM	12	0	21.07	20.79	21.18	22
		12	6	20.78	21	21.12	22
		12	13	20.87	20.95	21.16	22
		25	0	21.01	21.06	21.3	22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawiani	Wiodulation	IND SIZE	IND Ollset	20450	20525	20600	rune up
		1	0	23.19	23.06	23.21	24
		1	25	23.03	23.4	23.28	24
		1	49	23.06	23.21	23.13	24
10MHz	QPSK	25	0	21.89	22.17	22.24	23
		25	13	21.95	22.22	22.2	23
		25	25	22.18	22.24	22.27	23
		50	0	22.08	22.15	22.38	23



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	1	0	22.43	21.67	22.42	23
	1	25	22.53	21.99	22.28	23
	1	49	22.39	21.93	22.1	23
16QAM	25	0	21.2	21.27	21.33	22
	25	13	20.97	21.32	21.33	22
	25	25	21.33	21.31	21.32	22
	50	0	21.1	20.97	21.42	22

	LTE Ba	nd 7		Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel 20775	Channel 21100	Channel 21425	Tune up		
		1	0	21.67	21.94	22.06	22.5		
		1	13	21.69	22.02	22.11	22.5		
		1	24	21.63	21.93	22.13	22.5		
	QPSK	12	0	20.83	21.02	21.06	22		
		12	6	20.93	21.18	21.13	22		
		12	13	20.84	21.16	20.96	22		
ENALL-		25	0	20.84	21.09	21.02	22		
5MHz		1	0	20.53	21.21	20.79	22		
		1	13	20.79	21.54	20.81	22		
		1	24	20.78	21.47	20.63	22		
	16QAM	12	0	19.62	19.96	19.81	20.5		
		12	6	19.83	19.9	19.82	20.5		
		12	13	19.83	19.8	19.76	20.5		
		25	0	19.84	19.97	19.99	20.5		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
Ballawiatii	Modulation	IND SIZE	IND Offset	20800	21100	21400	rune up		
		1	0	21.95	21.99	21.91	22.5		
		1	25	22.08	22.35	21.91	22.5		
		1	49	21.73	21.86	21.89	22.5		
	QPSK	25	0	20.86	21.07	21.17	22		
		25	13	20.78	21.06	21.12	22		
		25	25	20.85	20.97	20.98	22		
10MHz		50	0	20.93	21.04	21.1	22		
1011112		1	0	21.22	20.61	21.32	22		
		1	25	21.83	21.69	21.75	22		
		1	49	21.14	20.87	21.28	22		
	16QAM	25	0	20.02	20.16	20.01	20.5		
		25	13	20.05	20.36	20.22	20.5		
		25	25	19.84	20.35	20.18	20.5		
		50	0	19.87	20.04	20.23	20.5		



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwiutii	IVIOGUIATION	ND SIZE	KD Ollset	20825	21100	21375	Turie up
		1	0	21.6	21.76	22.03	22.5
		1	38	21.88	21.85	22.12	22.5
		1	74	21.54	21.8	21.87	22.5
	QPSK	36	0	20.81	21	21.12	22
		36	18	20.87	21.1	21.09	22
		36	39	20.66	21.04	21.01	22
15MHz		75	0	20.72	21.01	21.06	22
ISWITZ		1	0	21.32	20.93	21.3	22
		1	38	21.3	21.17	21.3	22
		1	74	21.09	21.05	21.19	22
	16QAM	36	0	20.03	20.01	20	20.5
		36	18	20.13	20.11	19.99	20.5
		36	39	19.8	20.06	19.95	20.5
		75	0	19.78	19.94	20.03	20.5
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tupo up
Danuwium	iviodulation	KD SIZE	RD Ollset	20850	21100	21350	Tune up
		1	0	21.63	21.96	21.92	22.5
		1	50	22.13	22.24	22.24	22.5
		1	99	21.79	22.19	21.68	22.5
	QPSK	50	0	20.92	21.05	21.13	22
		50	25	20.82	21.13	21.12	22
		50	50	20.68	21.06	20.95	22
20MHz		100	0	20.76	21.06	21.06	22
ZUIVITZ		1	0	20.59	21.67	21.37	22
		1	50	20.87	22.2	21.8	22.5
		1	99	20.11	22.03	20.76	22.5
	16QAM	50	0	19.98	19.91	20.15	21
		50	25	19.86	20.11	20.12	21
		50	50	19.7	20.07	20.06	21
		100	0	19.79	19.98	20.21	21

	LTE Bar	nd 66		Conducted Power(dBm)						
				Channel	Channel	Channel				
Bandwidth	Modulation	RB size	RB offset	131979/	132322/	132665/	Tune up			
				1710.7	1745	1779.3				
		1	0	22.33	22.56	22.51	23			
		1	2	22.42	22.8	22.53	23			
1.4MHz	ODCK	1	5	22.21	22.58	22.42	23			
1.4111172	QPSK	3	0	22.55	22.61	22.62	23			
		3	2	22.41	22.83	22.67	23			
		3	3	22.35	22.68	22.35	23			



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		6	0	21.51	21.65	21.31	22
		1	0	22.14	21.69	21.43	22
		1	2	22.04	21.46	21.63	22
		1	5	21.8	21.6	21.53	22
	16QAM	3	0	21.57	21.75	21.36	22
	1000/11/1	3	2	21.75	21.88	21.33	22
		3	3	21.75	21.85	21.33	22
		6	0	20.53	20.8	20.51	21
		0	0	Channel	Channel	Channel	Z 1
Bandwidth	Modulation	RB size	RB offset	131987/	132322/	132657/	Tune up
				1711.5	1745	1778.5	
		1	0	22.51	22.84	22.49	23
		1	7	22.58	22.64	22.42	23
		1	14	22.65	22.58	22.47	23
	QPSK	8	0	21.43	21.7	21.35	22
		8	4	21.31	21.69	21.44	22
		8	7	21.3	21.61	21.52	22
08411-		15	0	21.28	21.65	21.47	22
3MHz		1	0	21.86	21.42	21.26	22
		1	7	22.3	21.48	21.08	22
		1	14	22.03	21.18	21.25	22
	16QAM	8	0	20.73	20.54	20.74	22
		8	4	20.64	20.89	20.76	22
		8	7	20.62	20.82	20.82	22
		15	0	20.38	20.61	20.52	21
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	131997/ 1712.5	132322/ 1745	132647/ 1777.5	Tune up
		1	0	22.4	22.76	22.36	23
		1	13	22.08	22.69	22.21	23
		1	24	22.03	22.71	22.3	23
	QPSK	12	0	21.41	21.72	21.43	22
		12	6	21.28	21.61	21.56	22
		12	13	21.27	21.67	21.46	22
EMU-		25	0	21.24	21.76	21.46	22
5MHz		1	0	21.69	21.23	20.67	22
		1	13	21.48	21.29	20.73	22
		1	24	21.33	21.74	20.71	22
	16QAM	12	0	20.38	20.75	20.41	21
		12	6	20.15	20.65	20.59	21
		12	13	20.27	20.81	20.61	21
		25	0	20.18	20.7	20.41	21
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up



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				132022/	132322/	132622/	
				1715	1745	1775	
		1	0	22.64	22.72	22.36	23
		1	25	22.1	22.66	22.45	23
		1	49	22.41	22.45	22.43	23
	QPSK	25	0	21.4	21.61	21.38	22
	QI OIX	25	13	21.26	21.72	21.51	22
		25	25				22
		50	0	21.28	21.53	21.58	22
10MHz			0	21.23	21.57	21.45	
		1		22.22	21.63	21.66	22
		1	25	21.64	22.03	21.99	22
	400444	1	49	21.69	21.51	21.75	22
	16QAM	25	0	20.59	20.76	20.4	21
		25	13	20.32	20.86	20.63	21
		25	25	20.42	20.78	20.53	21
		50	0	20.48	20.87	20.44	21
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	132047/	132322/	132597/	Tune up
				1717.5	1745	1772.5	
		1	0	22.44	22.44	22.26	23
		1	38	22.07	22.5	22.39	23
	QPSK	1	74	22.44	22.35	22.35	23
		36	0	21.24	21.64	21.32	22
		36	18	21.23	21.7	21.39	22
		36	39 0	21.28	21.49	21.35	22 22
15MHz		75 1	0	21.23 22.24	21.6 21.72	21.36 21.58	22
		1	38	21.74	21.82	21.73	22
		1	74	21.74	20.99	21.75	22
	16QAM	36	0	20.25	20.58	20.33	21
	TOQAW	36	18	20.23	20.58	20.4	21
		36	39	20.34	20.46	20.46	21
		75	0	20.33	20.57	20.31	21
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	131972/	132322/	132572/	Tune up
				1710	1745	1770	·
		1	0	22.52	22.37	22.1	23
		1	50	22.56	22.82	22.12	23
		1	99	22.58	22.26	22.36	23
	QPSK	50	0	21.16	21.67	21.27	22
20MHz		50	25	21.31	21.59	21.34	22
		50	50	21.3	21.51	21.38	22
		100	0	21.27	21.62	21.31	22
	160014	1	0	21.24	22.34	21.79	23
	16QAM	1	50	21.15	22.91	22	23



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1	99	21.18	22.3	21.97	23
50	0	20.13	20.55	20.21	21
50	25	20.26	20.57	20.41	21
50	50	20.22	20.53	20.52	21
100	0	20.23	20.59	20.36	21

Table 7: 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		16.35	17
802.11b	6	2437	1	16.45	17
	11	2462		16.64	17
	1	2412		14.61	15
802.11g	6	2437	6	14.92	15.5
	11	2462		15.1	15.5
	1	2412		14.16	15
802.11n-HT20	6	2437	MCS0	14.33	15
	11	2462		14.58	15

Table 8: 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.

	ВТ		Average Conducted	Tuna un
Modulation	Channel	Frequency (MHz)	Average Conducted Power(dBm)	Tune up (dBm)
	0	2402	-1.75	-1
GFSK	39	2441	-1.52	-1
	78	2480	-2.22	-1
	0	2402	-1.95	-1.5
π/4DQPSK	39	2441	-2.21	-1.5
	78	2480	-2.64	-2
	0	2402	-1.69	-1
8DPSK	39	2441	-1.95	-1.5
	78	2480	-2.39	-1.5
	BLE_1M		Average Conducted	Tungun
Modulation	Channel	Frequency(MHz)	Average Conducted Power(dBm)	Tune up (dBm)



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	0	2402	6.84	7.5
GFSK	19	2440	7.21	7.5
	39	2480	7.07	7.5

Table 9: Conducted Power Of BT



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8.2 Measurement of SAR Data

8.2.1 SAR Result Of GSM 850

Test position	Test mode	Test Ch./Freq	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift(dB)	Conducte d Power (dBm)	Tune up Limit (dBm	Scale d factor	Scale d SAR (W/kg) 1-g	Scale d SAR (W/kg) 10-g	Liqui d Temp	Body SAR limit (W/kg) 1-g	Limbs SAR limit (W/kg) 10-g
					Т	est data SIM	l1(Separate 0m	nm)						
Front side	GPRS 1TS	251/ 848.8	1:2.07 5	0.071	0.049	0.18	32.78	33	1.052	0.075	0.052	22.1	1.6	4.0
Back side	GPRS 1TS	251/ 848.8	1:2.07 5	0.402	0.229	0.12	32.78	33	1.052	0.423	0.241	22.1	1.6	4.0
Left side	GPRS 1TS	251/ 848.8	1:2.07 5	0.107	0.072	0.17	32.78	33	1.052	0.113	0.076	22.1	1.6	4.0
Right side	GPRS 1TS	251/ 848.8	1:2.07 5	0.251	0.133	-0.02	32.78	33	1.052	0.264	0.140	22.1	1.6	4.0
Top side	GPRS 1TS	251/ 848.8	1:2.07 5	0.028	0.014	0.06	32.78	33	1.052	0.029	0.015	22.1	1.6	4.0
Bottom side	GPRS 1TS	251/ 848.8	1:2.07 5	0.305	0.167	-0.12	32.78	33	1.052	0.321	0.176	22.1	1.6	4.0
Back side	EGPR S 1TS	251/ 848.8	1:2.07 5	0.314	0.171	0.05	32.65	33	1.084	0.340	0.185	22.1	1.6	4.0
					Т	est data SIM	2(Separate 0m	nm)						
Back side	GPRS 1TS	251/ 848.8	1:2.07 5	0.395	0.217	-0.04	32.78	33	1.052	0.416	0.228	22.1	1.6	4.0

Table 10: SAR Result Of GSM 850 Note:

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



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8.2.2 SAR Result Of GSM 1900

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift(dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp	Body SAR limit (W/kg) 1-g	Limbs SAR limit (W/kg) 10-g
					Te	est data SIM	1(Separate 0mi	m)						
Front side	GPRS 1TS	512/ 1850.2	1:2.075	0.108	0.063	-0.15	30.1	30.5	1.096	0.118	0.069	22.3	1.6	4.0
Back side	GPRS 1TS	512/ 1850.2	1:2.075	0.612	0.295	-0.07	30.1	30.5	1.096	0.671	0.323	22.3	1.6	4.0
Left side	GPRS 1TS	512/ 1850.2	1:2.075	0.163	0.091	0.02	30.1	30.5	1.096	0.179	0.100	22.3	1.6	4.0
Right side	GPRS 1TS	512/ 1850.2	1:2.075	0.382	0.171	0.07	30.1	30.5	1.096	0.419	0.187	22.3	1.6	4.0
Top side	GPRS 1TS	512/ 1850.2	1:2.075	0.043	0.018	-0.06	30.1	30.5	1.096	0.047	0.020	22.3	1.6	4.0
Bottom side	GPRS 1TS	512/ 1850.2	1:2.075	0.464	0.223	0.11	30.1	30.5	1.096	0.509	0.245	22.3	1.6	4.0
Back side	EGPRS 1TS	512/ 1850.2	1:2.075	0.499	0.238	0.04	30.75	31.5	1.189	0.593	0.283	22.3	1.6	4.0
					Te	est data SIM	2(Separate 0mi	m)						
Back side	GPRS 1TS	512/ 1850.2	1:2.075	0.604	0.287	-0.11	30.1	30.5	1.096	0.662	0.315	22.3	1.6	4.0

Table 11: SAR Result Of GSM 1900

- 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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8.2.3 SAR Result Of LTE Band 2

Test positio n	Test mode	Test Ch./Freq	Duty Cycl e	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Powe r Drift (dB)	Conducte d power (dBm)	Tune up Limit (dBm	Scale d factor	Scale d SAR (W/kg) 1-g	Scale d SAR (W/kg) 10-g	Liqui d Temp.	Body SAR limit (W/kg)	Limbs SAR limit (W/kg) 10-g
						Test data	With SIM1(0mi	m)						
Front side	20M_QPS K 1RB_50	18700/ 1860	1:1	0.168	0.093	-0.03	22.67	23	1.079	0.181	0.100	22.3	1.6	4.0
Back side	20M_QPS K 1RB_50	18700/ 1860	1:1	0.879	0.451	0.08	22.67	23	1.079	0.948	0.487	22.3	1.6	4.0
Left side	20M_QPS K 1RB_50	18700/ 1860	1:1	0.247	0.142	0.14	22.67	23	1.079	0.266	0.153	22.3	1.6	4.0
Right side	20M_QPS K 1RB_50	18700/ 1860	1:1	0.58	0.262	-0.1	22.67	23	1.079	0.626	0.283	22.3	1.6	4.0
Top side	20M_QPS K 1RB_50	18700/ 1860	1:1	0.065	0.028	0.05	22.67	23	1.079	0.070	0.030	22.3	1.6	4.0
Bottom side	20M_QPS K 1RB_50	18700/ 1860	1:1	0.706	0.329	0.11	22.67	23	1.079	0.762	0.355	22.3	1.6	4.0
Back side	20M_QPS K 1RB_50	18900/ 1880	1:1	0.881	0.469	-0.12	21.76	23	1.330	1.172	0.624	22.3	1.6	4.0
Back side	20M_QPS K 1RB_50	19100/ 1900	1:1	0.873	0.494	0.03	22.01	23	1.256	1.097	0.620	22.3	1.6	4.0
						Test data	With SIM2(0mi	m)						
Back side	20M_QPS K 1RB_50	18900/ 1880	1:1	0.875	0.453	0.08	21.76	23	1.330	1.164	0.603	22.3	1.6	4.0

Table 12: SAR Result of LTE Band 2

- 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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8.2.4 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)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	Body SAR limit (W/kg) 1-g	Limbs SAR limit (W/kg) 10-g
					-	Test data \	With SIM1(0mm	1)						
Front side	20M_QPSK 1RB_50	20175/ 1732.5	1:1	0.13	0.077	0.07	22.83	23	1.040	0.135	0.080	22.2	1.6	4.0
Back side	20M_QPSK 1RB_50	20175/ 1732.5	1:1	0.738	0.359	0.05	22.83	23	1.040	0.767	0.373	22.2	1.6	4.0
Left side	20M_QPSK 1RB_50	20175/ 1732.5	1:1	0.196	0.113	-0.13	22.83	23	1.040	0.204	0.118	22.2	1.6	4.0
Right side	20M_QPSK 1RB_50	20175/ 1732.5	1:1	0.461	0.208	0.06	22.83	23	1.040	0.479	0.216	22.2	1.6	4.0
Top side	20M_QPSK 1RB_50	20175/ 1732.5	1:1	0.051	0.022	0.03	22.83	23	1.040	0.053	0.023	22.2	1.6	4.0
Bottom side	20M_QPSK 1RB_50	20175/ 1732.5	1:1	0.559	0.262	0.08	22.83	23	1.040	0.581	0.272	22.2	1.6	4.0
						Test data \	With SIM2(0mm	۱)						
Back side	20M_QPSK 1RB_50	20175/ 1732.5	1:1	0.714	0.341	-0.04	22.83	23	1.040	0.743	0.355	22.2	1.6	4.0

Table 13: 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 \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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8.2.5 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)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	Body SAR limit (W/kg) 1-g	Limbs SAR limit (W/kg) 10-g
						Test data \	With SIM1(0mm	1)						
Front side	10M_QPSK 1RB_25	20525/ 836.5	1:1	0.078	0.046	-0.11	23.4	24	1.148	0.090	0.053	22.1	1.6	4.0
Back side	10M_QPSK 1RB_25	20525/ 836.5	1:1	0.43	0.225	0.02	23.4	24	1.148	0.494	0.258	22.1	1.6	4.0
Left side	10M_QPSK 1RB_25	20525/ 836.5	1:1	0.114	0.071	0.09	23.4	24	1.148	0.131	0.082	22.1	1.6	4.0
Right side	10M_QPSK 1RB_25	20525/ 836.5	1:1	0.268	0.132	-0.04	23.4	24	1.148	0.308	0.152	22.1	1.6	4.0
Top side	10M_QPSK 1RB_25	20525/ 836.5	1:1	0.031	0.013	0.13	23.4	24	1.148	0.036	0.015	22.1	1.6	4.0
Bottom side	10M_QPSK 1RB_25	20525/ 836.5	1:1	0.326	0.164	0.07	23.4	24	1.148	0.374	0.188	22.1	1.6	4.0
			•	•	-	Test data \	With SIM2(0mm	1)	•			•		
Back side	10M_QPSK 1RB_25	20525/ 836.5	1:1	0.416	0.205	0.06	23.4	24	1.148	0.478	0.235	22.1	1.6	4.0

Table 14: 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 \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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8.2.6 SAR Result Of LTE Band 7

Test position	Test mode	Test Ch./Freq	Duty Cycl e	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Powe r Drift (dB)	Conducte d power (dBm)	Tune up Limit (dBm	Scale d factor	Scale d SAR (W/kg) 1-g	Scale d SAR (W/kg) 10-g	Liqui d Temp	Body SAR limit (W/kg) 1-g	Limbs SAR limit (W/kg) 10-g
	Test data With SIM1(0mm)													
Front side	20M_QPS K 1RB_50	21100/ 2535	1:1	0.094	0.048	-0.05	22.24	22.5	1.062	0.100	0.051	22.1	1.6	4.0
Back side	20M_QPS K 1RB_50	21100/ 2535	1:1	0.531	0.223	0.01	22.24	22.5	1.062	0.564	0.237	22.1	1.6	4.0
Left side	20M_QPS K 1RB_50	21100/ 2535	1:1	0.141	0.07	0.06	22.24	22.5	1.062	0.150	0.074	22.1	1.6	4.0
Right side	20M_QPS K 1RB_50	21100/ 2535	1:1	0.332	0.13	0.07	22.24	22.5	1.062	0.352	0.138	22.1	1.6	4.0
Top side	20M_QPS K 1RB_50	21100/ 2535	1:1	0.037	0.014	-0.01	22.24	22.5	1.062	0.039	0.015	22.1	1.6	4.0
Bottom side	20M_QPS K 1RB_50	21100/ 2535	1:1	0.403	0.163	0.12	22.24	22.5	1.062	0.428	0.173	22.1	1.6	4.0
Test data With SIM2(0mm)														
Back side	20M_QPS K 1RB_50	21100/ 2535	1:1	0.522	0.216	0.14	22.24	22.5	1.062	0.554	0.229	22.1	1.6	4.0

Table 15: SAR Result of LTE Band 7

- 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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8.2.7 SAR Result Of LTE Band 66

Test position	Test mode	Test Ch./Freq	Duty Cycl e	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Powe r Drift (dB)	Conducte d power (dBm)	Tune up Limit (dBm	Scale d factor	Scale d SAR (W/kg) 1-g	Scale d SAR (W/kg) 10-g	Liqui d Temp	Body SAR limit (W/kg) 1-g	Limbs SAR limit (W/kg) 10-g
	Test data With SIM1(0mm)													
Front side	20M_QPS K 1RB_50	132322/ 1745	1:1	0.116	0.069	-0.1	22.82	23	1.042	0.121	0.072	22.1	1.6	4.0
Back side	20M_QPS K 1RB_50	132322/ 1745	1:1	0.658	0.318	0.0	22.82	23	1.042	0.686	0.331	22.1	1.6	4.0
Left side	20M_QPS K 1RB_50	132322/ 1745	1:1	0.179	0.092	0.13	22.82	23	1.042	0.187	0.096	22.1	1.6	4.0
Right side	20M_QPS K 1RB_50	132322/ 1745	1:1	0.412	0.186	0.05	22.82	23	1.042	0.429	0.194	22.1	1.6	4.0
Top side	20M_QPS K 1RB_50	132322/ 1745	1:1	0.046	0.021	0.16	22.82	23	1.042	0.048	0.022	22.1	1.6	4.0
Bottom side	20M_QPS K 1RB_50	132322/ 1745	1:1	0.499	0.232	-0.06	22.82	23	1.042	0.520	0.242	22.1	1.6	4.0
Test data With SIM2(0mm)														
Back side	20M_QPS K 1RB_50	132322/ 1745	1:1	0.646	0.299	0.02	22.82	23	1.042	0.673	0.312	22.1	1.6	4.0

Table 16: SAR Result of LTE Band 66

- 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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8.2.8 SAR Result Of 2.4GHz Wi-Fi

Test positio n	Test mode	Test Ch./Freq	Duty Cycle	Duty Cycle Scale d factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Powe r drift (dB)	Conducte d power (dBm)	Tune up Limit (dBm	Scale d factor	Scale d SAR (W/kg) 1g	Scale d SAR (W/kg) 10g	Liqui d Temp.	Body SAR limit (W/kg) 1-g	Limbs SAR limit (W/kg) 10-g
							Test data	a(0mm)							
Front side	802.11 b	11/ 2462	98.83 %	1.012	0.128	0.063	0.06	16.64	17.00	1.086	0.141	0.069	22.0	1.6	4.0
Back side	802.11 b	11/ 2462	98.83 %	1.012	0.486	0.256	0.13	16.64	17.00	1.086	0.534	0.281	22.0	1.6	4.0
Left side	802.11 b	11/ 2462	98.83 %	1.012	0.192	0.093	0.01	16.64	17.00	1.086	0.211	0.102	22.0	1.6	4.0
Right side	802.11 b	11/ 2462	98.83 %	1.012	0.351	0.172	-0.06	16.64	17.00	1.086	0.386	0.189	22.0	1.6	4.0
Top side	802.11 b	11/ 2462	98.83 %	1.012	0.051	0.018	0.12	16.64	17.00	1.086	0.056	0.020	22.0	1.6	4.0
Bottom side	802.11 b	11/ 2462	98.83 %	1.012	0.348	0.216	-0.08	16.64	17.00	1.086	0.383	0.237	22.0	1.6	4.0

Table 17: SAR Result Of 2.4GHz Wi-Fi

- 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 ≤ 2.0 W/kg then testing at the other channels is not required for such test configuration(s). Per Kdb248227 D01, When the reported SAR is > 2.0W/kg, SAR is required for that exposure configuration using the next highest measured output power channel.
- 3) Each channel was tested at the lowest data rate.
- 4) Per KDB248227 D01, for Body SAR test of Wi-Fi2.4G, SAR is measured for 2.4 GHz 802.11b DSSS using the initial test position procedure. The highest reported SAR for DSSS is adjusted by the ratio of OFDM 802.11g/n to DSSS specified maximum output power and the adjusted SAR is < 3.0 W/kg, so SAR for 802.11g/n is not required.



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8.2.9 SAR Result Of Bluetooth

Test position	Test mode	Test Ch./ Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1g	Scaled SAR (W/kg) 10g	Liquid Temp.	Body SAR limit (W/kg) 1-g	Limbs SAR limit (W/kg) 10-g
	Limbs Test data(0mm)														
Front side	GFSK	19/ 2440	62.40%	1.603	0.039	0.011	0.01	7.21	7.50	1.069	0.067	0.019	22.0	1.6	4.0
Back side	GFSK	19/ 2440	62.40%	1.603	0.238	0.095	-0.06	7.21	7.50	1.069	0.407	0.163	22.0	1.6	4.0
Left side	GFSK	19/ 2440	62.40%	1.603	0.064	0.023	-0.07	7.21	7.50	1.069	0.110	0.040	22.0	1.6	4.0
Right side	GFSK	19/ 2440	62.40%	1.603	0.145	0.058	-0.15	7.21	7.50	1.069	0.249	0.100	22.0	1.6	4.0
Top side	GFSK	19/ 2440	62.40%	1.603	0.013	0.005	0.10	7.21	7.50	1.069	0.023	0.008	22.0	1.6	4.0
Bottom side	GFSK	19/ 2440	62.40%	1.603	0.185	0.064	0.03	7.21	7.50	1.069	0.316	0.110	22.0	1.6	4.0

Table 18: SAR Result Of BT Note:

- 5) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
- 6) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 2.0 W/kg then testing at the other channels is not required for such test configuration(s). Per Kdb248227 D01, When the reported SAR is > 2.0W/kg, SAR is required for that exposure configuration using the next highest measured output power channel.



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8.3 Multiple Transmitter Evaluation

8.3.1 Simultaneous SAR SAR test evaluation

Simultaneous Transmission

NO.	Simultaneous Transmission Configuration	Extremity
1	GSM(Data) + Wi-Fi	Yes
2	GSM(Data) + BT	Yes
3	LTE(Data) + Wi-Fi	Yes
4	LTE(Data) + BT	Yes
5	BT+ Wi-Fi	No

Note:

1) Wi-Fi and Bluetooth share the same Tx antenna and can't transmit simultaneously.



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8.3.1 Simultaneous Transmission SAR Summation Scenario for Body

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	Case NO.
	Front	0.075	0.141	0.067	0.216	0.142	No
	Back	0.423	0.534	0.407	0.957	0.830	No
GSM 850	Left	0.113	0.211	0.110	0.324	0.223	No
G3W 630	Right	0.264	0.386	0.249	0.650	0.513	No
	Тор	0.029	0.056	0.023	0.085	0.052	No
	Bottom	0.321	0.383	0.316	0.704	0.637	No
	Front	0.118	0.141	0.067	0.259	0.185	No
	Back	0.671	0.534	0.407	1.205	1.078	No
GSM	Left	0.179	0.211	0.110	0.390	0.289	No
1900	Right	0.419	0.386	0.249	0.805	0.668	No
	Тор	0.047	0.056	0.023	0.103	0.070	No
	Bottom	0.509	0.383	0.316	0.892	0.825	No
	Front	0.181	0.141	0.067	0.322	0.248	No
	Back	1.172	0.534	0.407	1.706	1.579	No
LTE Band	Left	0.266	0.211	0.110	0.477	0.376	No
2	Right	0.626	0.386	0.249	1.012	0.875	No
	Тор	0.070	0.056	0.023	0.126	0.093	No
	Bottom	0.762	0.383	0.316	1.145	1.078	No
	Front	0.135	0.141	0.067	0.276	0.202	No
	Back	0.767	0.534	0.407	1.301	1.174	No
LTE Band	Left	0.204	0.211	0.110	0.415	0.314	No
4	Right	0.479	0.386	0.249	0.865	0.728	No
	Тор	0.053	0.056	0.023	0.109	0.076	No
	Bottom	0.581	0.383	0.316	0.964	0.897	No
	Front	0.090	0.141	0.067	0.231	0.157	No
	Back	0.494	0.534	0.407	1.028	0.901	No
LTE Band 5	Left	0.131	0.211	0.110	0.342	0.241	No
	Right	0.308	0.386	0.249	0.694	0.557	No
	Тор	0.036	0.056	0.023	0.092	0.059	No



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	Bottom	0.374	0.383	0.316	0.757	0.690	No
	Front	0.100	0.141	0.067	0.241	0.167	No
	Back	0.564	0.534	0.407	1.098	0.971	No
LTE Band	Left	0.150	0.211	0.110	0.361	0.260	No
7	Right	0.352	0.386	0.249	0.738	0.601	No
	Тор	0.039	0.056	0.023	0.095	0.062	No
	Bottom	0.428	0.383	0.316	0.811	0.744	No
	Front	0.121	0.141	0.067	0.262	0.188	No
	Back	0.686	0.534	0.407	1.220	1.093	No
LTE Band	Left	0.187	0.211	0.110	0.398	0.297	No
66	Right	0.429	0.386	0.249	0.815	0.678	No
	Тор	0.048	0.056	0.023	0.104	0.071	No
	Bottom	0.520	0.383	0.316	0.903	0.836	No



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8.3.2 Simultaneous Transmission SAR Summation Scenario for Extremity

WWAN Band	Exposure position	②MAX. WLAN 2.4GHz SAR(W/kg)	②MAX. WLAN 2.4GHz SAR(W/kg)	③MAX. BT SAR(W/kg)	Summed SAR ①+②	Summed SAR ①+③	Case NO.
	Front	0.052	0.069	0.019	0.121	0.071	No
	Back	0.241	0.281	0.163	0.522	0.404	No
GSM 850	Left	0.076	0.102	0.040	0.178	0.116	No
G2101 030	Right	0.140	0.189	0.100	0.329	0.240	No
	Тор	0.015	0.020	0.008	0.035	0.023	No
	Bottom	0.176	0.237	0.110	0.413	0.286	No
	Front	0.069	0.069	0.019	0.138	0.088	No
	Back	0.323	0.281	0.163	0.604	0.486	No
GSM	Left	0.100	0.102	0.040	0.202	0.140	No
1900	Right	0.187	0.189	0.100	0.376	0.287	No
	Тор	0.020	0.020	0.008	0.040	0.028	No
	Bottom	0.245	0.237	0.110	0.482	0.355	No
	Front	0.100	0.069	0.019	0.169	0.119	No
	Back	0.624	0.281	0.163	0.905	0.787	No
LTE Band	Left	0.153	0.102	0.040	0.255	0.193	No
2	Right	0.283	0.189	0.100	0.472	0.383	No
	Тор	0.030	0.020	0.008	0.050	0.038	No
	Bottom	0.355	0.237	0.110	0.592	0.465	No
	Front	0.080	0.069	0.019	0.149	0.099	No
	Back	0.373	0.281	0.163	0.654	0.536	No
LTE Band	Left	0.118	0.102	0.040	0.220	0.158	No
4	Right	0.216	0.189	0.100	0.405	0.316	No
	Тор	0.023	0.020	0.008	0.043	0.031	No
	Bottom	0.272	0.237	0.110	0.509	0.382	No
	Front	0.053	0.069	0.019	0.122	0.072	No
	Back	0.258	0.281	0.163	0.539	0.421	No
LTE Band 5	Left	0.082	0.102	0.040	0.184	0.122	No
5	Right	0.152	0.189	0.100	0.341	0.252	No
	Тор	0.015	0.020	0.008	0.035	0.023	No



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	Bottom	0.188	0.237	0.110	0.425	0.298	No
	Front	0.051	0.069	0.019	0.120	0.070	No
	Back	0.237	0.281	0.163	0.518	0.400	No
LTE Band	Left	0.074	0.102	0.040	0.176	0.114	No
7	Right	0.138	0.189	0.100	0.327	0.238	No
	Тор	0.015	0.020	0.008	0.035	0.023	No
	Bottom	0.173	0.237	0.110	0.410	0.283	No
	Front	0.072	0.069	0.019	0.141	0.091	No
	Back	0.331	0.281	0.163	0.612	0.494	No
LTE Band	Left	0.096	0.102	0.040	0.198	0.136	No
66	Right	0.194	0.189	0.100	0.383	0.294	No
	Тор	0.022	0.020	0.008	0.042	0.030	No
	Bottom	0.242	0.237	0.110	0.479	0.352	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

	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration
	PC	HP	Core(rm)3.16G	CZCO48171H	N/A	N/A
\boxtimes	Signal Generator	Agilent	N5182A	MY50142015	2020/09/25	2021/09/24
	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
	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
\boxtimes	universal Radio communication tester	R&S	CMW500	159275	2020/10/19	2021/10/18
	DAE	SPEAG	DAE4	1245	2021/05/19	2022/05/18
	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
	Dipole	SPEAG	D1900V2	5d136	2019/06/11	2022/06/10
	Dipole	SPEAG	D2450V2	817	2019/06/10	2022/06/09
\boxtimes	Dipole	SPEAG	D2600V2	1158	2019/03/08	2022/03/07
	Electro Thermometer	DTM	DTM3000	3030	2020/10/24	2021/10/23
	Amplifier	Mini-circuits	ZVE-8G	110405	N/A	N/A
	Amplifier	Mini-circuits	ZHL-42	QA1331003	N/A	N/A
	3db ATTENUATOR	MINI	MCL BW-S3W5	0533	N/A	N/A
	DUMMY PROBE	SPEAG	DP_2	SPDP2001AA	N/A	N/A
	Dual Directional Coupler	Woken	20W couple	DOM2BHW1A1	N/A	N/A
	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
	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

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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: 2021/07/30

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; $\sigma = 0.909 \text{ S/m}$; $\varepsilon_r = 42.04$; $\rho = 1000 \text{ kg/m}^3$

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)

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

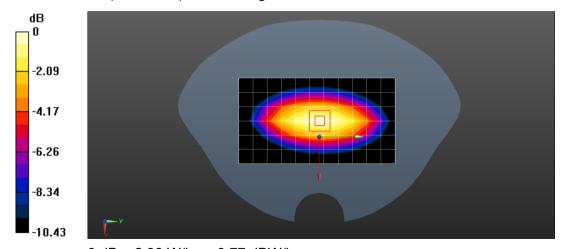
Maximum value of SAR (measured) = 2.66 W/kg

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 q) = 2.38 W/kq; SAR(10 q) = 1.56 W/kqMaximum value of SAR (measured) = 2.38 W/kg



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

Date: 2021/08/03



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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 = 1.385 S/m; ε_r = 40.197; 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

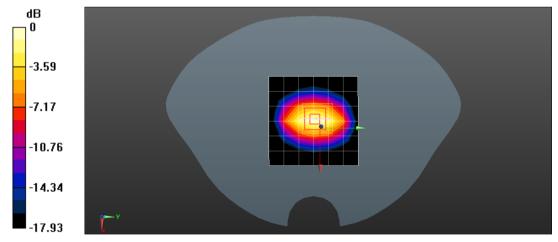
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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) = 9.5 W/kg; SAR(10 g) = 5.11 W/kgMaximum value of SAR (measured) = 13.0 W/kg



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

Date: 2021/08/02



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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; $\sigma = 1.373 \text{ S/m}$; $\epsilon_r = 40.58$; $\rho = 1000 \text{ kg/m}^3$

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)

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) = 13.9 W/kg

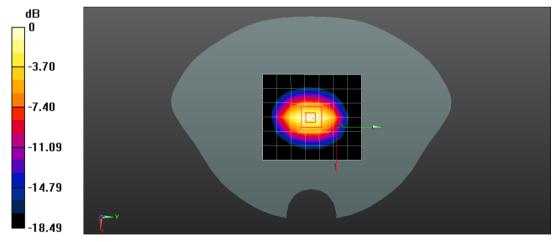
System Performance Check at Frequencies above 1 GHz/Pin=250 mW, dist=10mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 103.7 V/m: Power Drift = -0.01 dB

Peak SAR (extrapolated) = 18.6 W/kg

SAR(1 g) = 9.91 W/kg; SAR(10 g) = 5.23 W/kg

Maximum value of SAR (measured) = 14.2 W/kg



0 dB = 14.2 W/kg = 11.52 dBW/kg

Date: 2021/08/06



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Test Laboratory: Compliance Certification Services Inc.

System Performance Check-Head 2450MHz

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 817

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2450 MHz; σ = 1.806 S/m; ε_r = 38.232; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(7.33, 7.33, 7.33); 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)

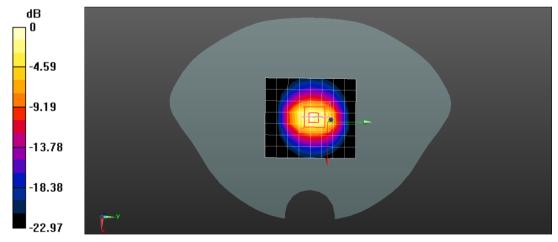
System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 15.2 W/kg

System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 106.8 V/m; Power Drift = -0.24 dB

Peak SAR (extrapolated) = 26.7 W/kg

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 5.8 W/kgMaximum value of SAR (measured) = 19.5 W/kg



0 dB = 19.5 W/kg = 12.90 dBW/kg

Date: 2021/08/05



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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 = 1.969 S/m; ε_r = 37.735; 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

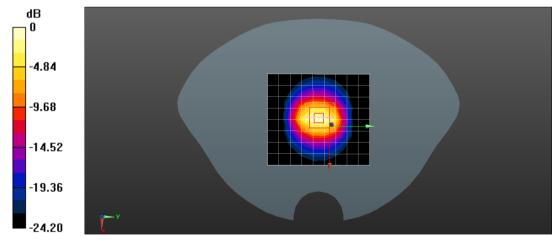
Maximum value of SAR (measured) = 19.0 W/kg

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) = 29.1 W/kg

SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.2 W/kgMaximum value of SAR (measured) = 21.1 W/kg



0 dB = 21.1 W/kg = 13.24 dBW/kg



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Appendix B: Detailed Test Results

The plots of worse case are showing as followings.



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Date: 2021/07/30

Test Laboratory: Compliance Certification Services Inc.

GSM850 GPRS1TS Back side 0mm Ch251

DUT: Mobile Payment Terminal; Type: D190

Communication System: UID 0, Generic GSM (0); Frequency: 848.8 MHz; Duty Cycle: 1:8.30042

Medium parameters used: f = 849 MHz; $\sigma = 0.911$ S/m; $\varepsilon_r = 41.76$; $\rho = 1000$ 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)

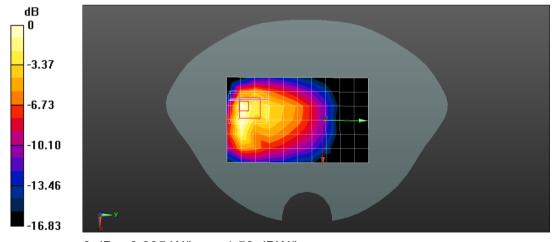
Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.735 W/kg

Configuration/Body/Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.15 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.402 W/kg; SAR(10 g) = 0.229 W/kgMaximum value of SAR (measured) = 0.695 W/kg



0 dB = 0.695 W/kg = -1.58 dBW/kg



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Date: 2021/08/02

Test Laboratory: Compliance Certification Services Inc.

GSM1900 GPRS1TS Back side 0mm Ch512

DUT: Mobile Payment Terminal; Type: D190

Communication System: UID 0, Generic GSM (0); Frequency: 1850.2 MHz; Duty Cycle: 1:8.30042 Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.35 S/m; ε_r = 40.784; 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

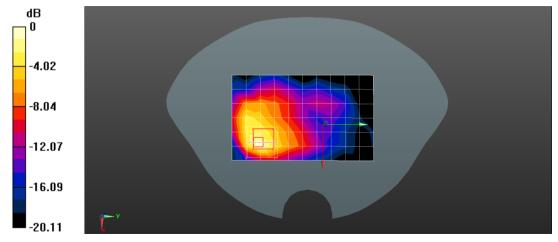
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.06 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 5.873 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 0.612 W/kg; SAR(10 g) = 0.295 W/kg

Maximum value of SAR (measured) = 1.10 W/kg



0 dB = 1.10 W/kg = 0.41 dBW/kg



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Report No.: KSEM210700107001

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Date: 2021/08/02

Test Laboratory: Compliance Certification Services Inc.

LTE Band 2 20M 1RB50 Back side 0mm Ch18900

DUT: Mobile Payment Terminal; Type: D190

Communication System: UID 0, FDD LTE (0); Frequency: 1880 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; σ = 1.368 S/m; ε_r = 40.662; 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

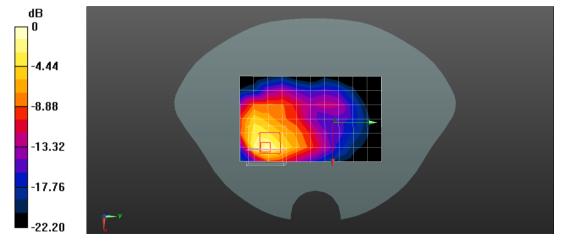
Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

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) = 1.09 W/kg

Configuration/Body/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 6.900 V/m; Power Drift = -0.12 dB Peak SAR (extrapolated) = 3.16 W/kg

SAR(1 g) = 0.881 W/kg; SAR(10 g) = 0.469 W/kgMaximum value of SAR (measured) = 2.05 W/kg



0 dB = 2.05 W/kg = 3.12 dBW/kg



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Report No.: KSEM210700107001

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Date: 2021/08/03

Test Laboratory: Compliance Certification Services Inc.

LTE Band 4 20M 1RB50 Back side 0mm Ch20175 -

DUT: Mobile Payment Terminal; Type: D190

Communication System: UID 0, FDD LTE (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.32 S/m; ε_r = 40.656; 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

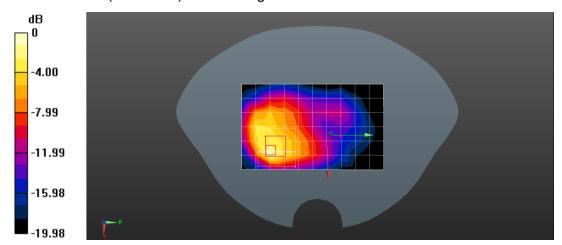
Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

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) = 1.21 W/kg

Configuration/Body/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 7.365 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 2.17 W/kg

SAR(1 g) = 0.738 W/kg; SAR(10 g) = 0.359 W/kgMaximum value of SAR (measured) = 1.38 W/kg



0 dB = 1.38 W/kg = 1.40 dBW/kg



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Date: 2021/07/30

Test Laboratory: Compliance Certification Services Inc.

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

DUT: Mobile Payment Terminal; Type: D190

Communication System: UID 0, FDD LTE (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): 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

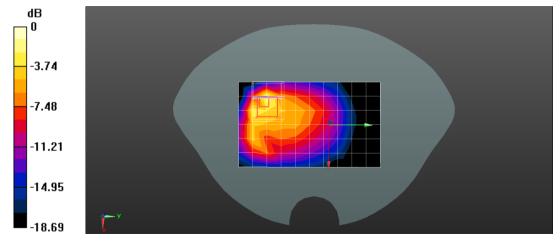
Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

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) = 0.646 W/kg

Configuration/Body/Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 12.80 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.430 W/kg; SAR(10 g) = 0.225 W/kgMaximum value of SAR (measured) = 0.902 W/kg



0 dB = 0.902 W/kg = -0.45 dBW/kg



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Date: 2021/08/05

Test Laboratory: Compliance Certification Services Inc.

LTE Band 7 20M 1RB50 Back side 0mm Ch21100

DUT: Mobile Payment Terminal; Type: D190

Communication System: UID 0, FDD LTE (0); Frequency: 2535.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2535.5 MHz; $\sigma = 1.902 \text{ S/m}$; $\varepsilon_r = 37.924$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

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

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

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

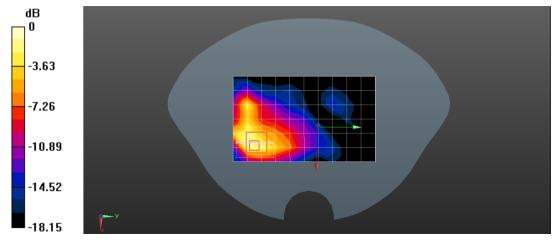
Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

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) = 0.737 W/kg

Configuration/Body/Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 4.846 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.531 W/kg; SAR(10 g) = 0.223 W/kgMaximum value of SAR (measured) = 0.943 W/kg



0 dB = 0.943 W/kg = -0.25 dBW/kg



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Date: 2021/08/03

Test Laboratory: Compliance Certification Services Inc.

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

DUT: Mobile Payment Terminal; Type: D190

Communication System: UID 0, TDD LTE (0); Frequency: 1745 MHz; Duty Cycle: 1:1.57943

Medium parameters used: f = 1745 MHz; $\sigma = 1.342 \text{ S/m}$; $\epsilon_r = 40.78$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

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

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

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

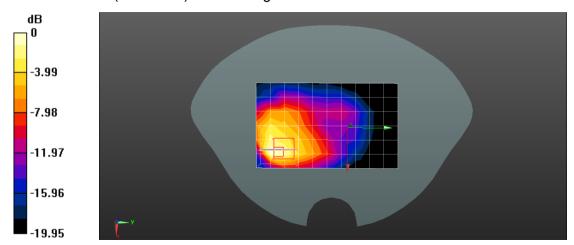
Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

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 (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 6.567 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 1.71 W/kg

SAR(1 g) = 0.658 W/kg; SAR(10 g) = 0.318 W/kgMaximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.12 W/kg = 0.49 dBW/kg



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Date: 2021/08/06

Test Laboratory: Compliance Certification Services Inc.

WLAN 2.4GHz 802.11b Back side 0mm Ch11

DUT: Mobile Payment Terminal; Type: D190

Communication System: UID 0, WiFi (0); Frequency: 2462 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2462 MHz; σ = 1.81 S/m; ϵ_r = 38.28; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(7.33, 7.33, 7.33); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

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

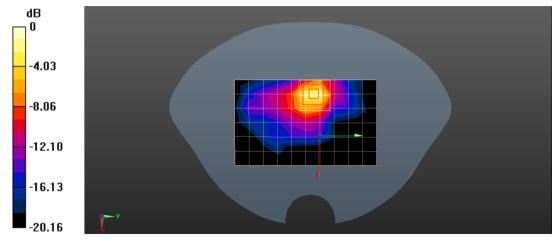
Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

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) = 0.73 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 7.540 V/m; Power Drift = 0.13 dB Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 0.486 W/kg; SAR(10 g) = 0.256 W/kgMaximum value of SAR (measured) = 1.40 W/kg



0 dB = 1.40 W/kg = 1.46 dBW/kg



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Date: 2021/08/06

Test Laboratory: Compliance Certification Services Inc.

Bluetooth BLE Back side 0mm Ch19

DUT: Mobile Payment Terminal; Type: D190

Communication System: UID 0, BLE (0); Frequency: 2440 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2440 MHz; σ = 1.789 S/m; ε_r = 38.245; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(7.33, 7.33, 7.33); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

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

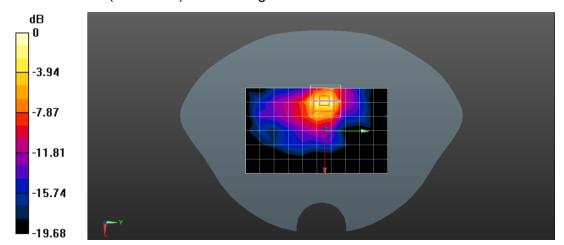
Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

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) = 0.253 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 4.510 V/m; Power Drift = -0.06 dB Peak SAR (extrapolated) = 0.86 W/kg

SAR(1 g) = 0.238 W/kg; SAR(10 g) = 0.095 W/kgMaximum value of SAR (measured) = 0.58 W/kg



0 dB = 0.58 W/kg = -2.37 dBW/kg



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Appendix C: Calibration certificate

Appendix D: Photographs

---END---



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