

Report No.: KSEM210500081101



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FCC SAR TEST REPORT

Application No.: KSEM2105000811CR(SZCR2105021099AT)

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: Smart Payment Terminal

 Model No.(EUT):
 A800

 Trade mark:
 PAX

 FCC ID:
 V5PA800

Standard(s): FCC 47CFR §2.1093

Date of Receipt: 2021-05-25

Date of Test: 2021-06-02 to 2021-06-10

Date of Issue: 2021-06-21

Test Result: Pass*

Eric Lin

Ena fin

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	2021-06-21	1

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



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TEST SUMMARY

Eroguanou Band	Maximum Reported SAR(W/kg)	
Frequency Band	Extremity	
WCDMA Band II	0.67	
WCDMA Band IV	0.42	
WCDMA Band V	0.15	
LTE Band 2	0.55	
LTE Band 4	0.40	
LTE Band 5	0.14	
LTE Band 12	0.16	
LTE Band 13	0.13	
LTE Band 17	0.14	
WI-FI (2.4GHz)	0.46	
WI-FI (5GHz)	0.73	
SAR Limited(W/kg)	4	
Maximum Simultaneous Transmission SAR (W/kg)		
Scenario	Extremity	
Sum SAR	1.26	
SPLSR	NA	
SPLSR Limited	0.1	



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1 General Information

1.1 General Description of EUT

portable device			
uncontrolled environment / general population			
production unit	production unit		
2210000409			
A800			
PayDroid_10.0.0_Cam	phor_v16.1.00T1_20210425		
PIFA antenna			
ations :			
		BDPSK	
0.8dBi for WCDMA ba	and 2/4		
	/12/13/17		
		1	
5 ,			
	` ,	Rx (MHz)	
		1930~1990	
WCDMA Band IV	1710~1755	2110~2155	
WCDMA Band V	824~849	869~894	
LTE Band 2	1850~1910	1930~1990	
LTE Band 4	1710~1755	2110~2155	
LTE Band 5	824~849	869~894	
LTE Band 12	699~716	729~746	
LTE Band 13	777~787	746~756	
LTE Band 17	704~716	734~746	
WI-FI2.4G	2412~2462	2412~2462	
Bluetooth	2402~2480	2402~2480	
Wi-Fi(U-NII-1)	5150~5250	5150~5250	
Wi-Fi(U-NII-2A)	5250~5350	5250~5350	
Wi-Fi(U-NII-2C)	5470~5725	5470~5725	
Wi-Fi(U-NII-3)	5725~5850	5725~5850	
Model: IS1099G			
		N) CO LTD	
	uncontrolled environments production unit 2210000409 A800 PayDroid_10.0.0_Came PIFA antenna ations: WCDMA:QPSK; LTE:WI-FI: CCK, DSSS, OI 1dBi for BT & WiFi(Produced to 1.5dBi for WCDMA beat 0.5dBi for WCDMA beat 0.5dBi for LTE Band 2.0.5dBi for LTE Band 5.6 B 14 3, tested with power code and wCDMA Band II WCDMA Band II WCDMA Band IV WCDMA Band V LTE Band 4 LTE Band 4 LTE Band 5 LTE Band 12 LTE Band 13 LTE Band 17 WI-FI2.4G Bluetooth Wi-Fi(U-NII-1) Wi-Fi(U-NII-2A) Wi-Fi(U-NII-2C) Wi-Fi(U-NII-3) Model: IS1099G Rated capacity: 7.2V, 2	uncontrolled environment / general population production unit 2210000409 A800 PayDroid_10.0.0_Camphor_v16.1.00T1_20210425 PIFA antenna ations: WCDMA:QPSK; LTE: QPSK,16QAM; WI-FI: CCK, DSSS, OFDM; BT: GFSK, π/4DQPSK, 1dBi for BT & WiFi(Provided by the manufacturer) 0.8dBi for WCDMA band 2/4 0.5dBi for WCDMA band 5 0.8dBi for LTE Band 2/4 0.5dBi for LTE Band 5/12/13/17 B 14 HSUPA UE Category: 3, tested with power control "all 1"(WCDMA Band II/I) 3, tested with power control Max Power(LTE Band 2/2) WCDMA Band II 1850~1910 WCDMA Band IV 1710~1755 WCDMA Band V 242~849 LTE Band 2 1850~1910 LTE Band 4 1710~1755 LTE Band 5 824~849 LTE Band 12 699~716 LTE Band 13 777~787 LTE Band 17 704~716 WI-FI2.4G 2412~2462 Bluetooth 2402~2480 Wi-Fi(U-NII-1) 5150~5250 Wi-Fi(U-NII-2A) 5250~5350 Wi-Fi(U-NII-2C) 5470~5725	

Note1:

The antenna gain value is provided by the customer. The test lab will not be responsible for wrong test result due to incorrect information about antenna gain values.



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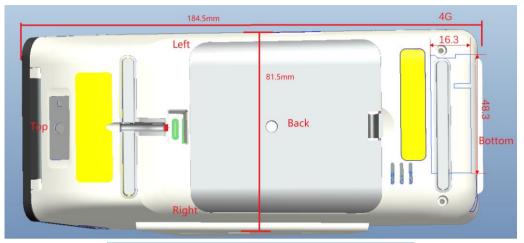
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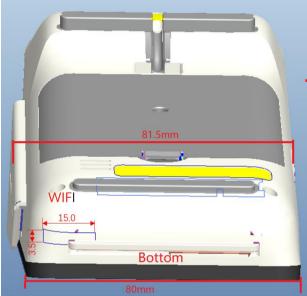


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1.1.1 DUT Antenna Locations(Back View)





The test device is a Smart Payment Terminal. The display diagonal dimension is 145mm and the overall diagonal dimension of this device is 172mm.



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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 941225 D01 3G SAR Procedures v03r01	3G SAR Measurement Procedures
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 Exposure	Uncontrolled Environment	Controlled Environment	
Tidiliali Exposure	General Population	Occupational	
Spatial Peak SAR*	1.60 \\///.~	8.00 W/kg	
(Brain*Trunk)	1.60 W/kg		
Spatial Average SAR**	0.08 \\///ca	0.40 W/kg	
(Whole Body)	0.08 W/kg	0.40 W/kg	
Spatial Peak SAR***	4.00 \\\\\\	20.00 \\///.~	
(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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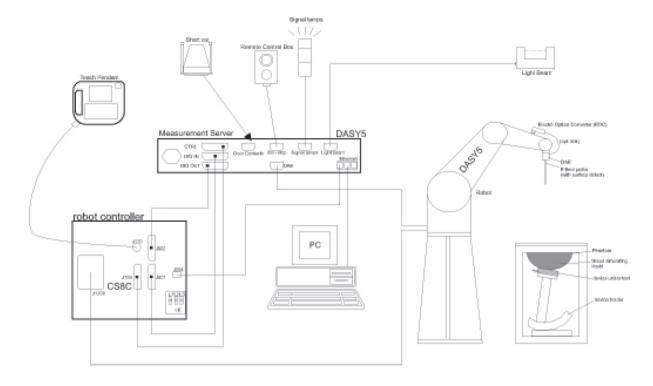
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F-1. SAR Measurement System Configuration

- 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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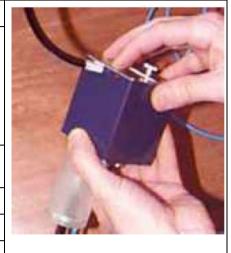


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3.3 Data Acquisition Electronics (DAE)

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 (geometric center of pr		-	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 o measurement plane orientation the measurement resolution n x or y dimension of the test d measurement point on the test	on, is smaller than the above, nust be ≤ the corresponding evice with at least one
Maximum zoom scan s	patial reso	lution: Δx _{Zoom} , Δy _{Zoom}	\leq 2 GHz: \leq 8 mm 2 – 3 GHz: \leq 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	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
surface	grid	Δz _{Zoom} (n>1): between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

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 1

- Crest factor

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)	45	50	83	35	9	15	19	00	24	50
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)	εr	σ (S/m)	εr	σ (S/m)	
150	52.3	0.76	61.9	0.80	
300	45.3	0.87	58.2	0.92	
450	43.5	0.87	56.7	0.94	
835	41.5	0.90	55.2	0.97	
900	41.5	0.97	55.0	1.05	
915	41.5	0.98	55.0	1.06	
1450	40.5	1.20	54.0	1.30	
1610	40.3	1.29	53.8	1.40	
1800-2000	40.0	1.40	53.3	1.52	
2450	39.2	1.80	52.7	1.95	
3000	38.5	2.40	52.0	2.73	
5800	35.3	5.27	48.2	6.00	

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



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6.1.3 Measurement for Tissue Simulate Liquid

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

Tissue Type	Measured Frequency (MHz)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Liquid Temp. (°C)	Date
750 Head	750	0.888	40.956	0.89	41.90	-0.22	-2.25	±5	22.1	2021/6/2
835 Head	835	0.886	40.849	0.90	41.50	-1.56	-1.57	±5	22.1	2021/6/3
1800 Head	1800	1.36	38.821	1.40	40.00	-2.86	-2.95	±5	22.2	2021/6/4
1900 Head	1900	1.372	40.640	1.40	40.00	-2.00	1.60	±5	22.3	2021/6/7
2450 Head	2450	1.786	39.621	1.80	39.20	-0.78	1.07	±5	22	2021/6/8
5250 Head	5250	4.606	35.152	4.71	35.95	-2.21	-2.22	±5	22.2	2021/6/9
5600 Head	5600	4.939	34.547	5.07	35.50	-2.58	-2.68	±5	22.2	2021/6/9
5750 Head	5750	5.032	34.024	5.22	35.35	-3.60	-3.75	±5	22.2	2021/6/10

Table 4: Measurement result of Tissue electric parameters



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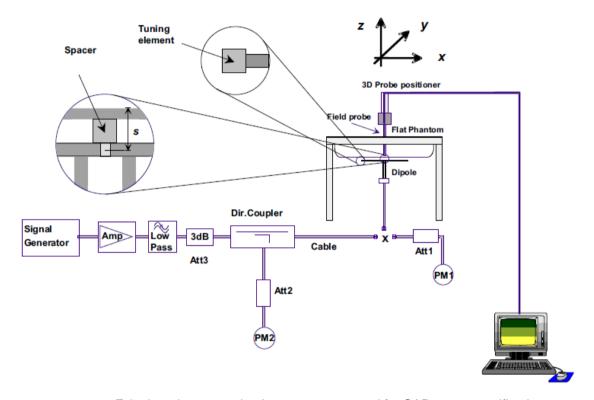


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6.2 SAR System Check

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)

Valid	dation 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)	()	
D750V2	Head	2.05	1.35	8.2	5.4	8.23 (7.41~9.05)	5.41 (4.87~5.95)	22.1	2021/6/2
D835V2	Head	2.33	1.51	9.32	6.04	9.41 (8.47~10.35)	6.25 (5.63~6.88)	22.1	2021/6/3
D1800V2	Head	9.36	4.99	37.44	19.96	38.4 (34.56~42.24)	20.2 (18.18~22.22)	22.2	2021/6/4
D1900V2	Head	9.89	5.11	39.56	20.44	39.7 (35.73~43.67)	20.5 (18.45~22.55)	22.3	2021/6/7
D2450V2	Head	12.7	5.8	50.8	23.2	53 (47.70~58.30)	24.6 (22.14~27.60)	22	2021/6/8
Valid	dation Kit	Measured SAR SAR Kit 100mW 100mV		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)	()	
	Head(5.25GHz)	7.71	2.23	77.1	22.3	77.7 (69.93~85.47)	22.4 (20.16~24.64)	22.2	2021/6/9
D5GHzV2	Head(5.6GHz)	7.91	2.33	79.1	23.3	81.2 (73.08~89.32)	23.5 (21.15~25.85)	22.2	2021/6/9
	Head(5.75GHz)	7.82	2.29	78.2	22.9	78.9 (71.01~86.79)	22.7 (20.43~24.97)	22.2	2021/6/10

Table 5: SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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7 Test Configuration

7.1 3G SAR Test Reduction Procedure

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

7.2 Operation Configurations

7.2.1 WCDMA Test Configuration

1) . Output Power Verification

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

2) . Head SAR

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

3) . <u>Body SAR</u>

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

4) . HSDPA / HSUPA / DC-HSDPA

According to KDB 941225 D01v03, RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified



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maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA

a) HSDPA

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

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

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

Note2:For the HS-DPCCH power mask requirement test in clause 5.2C,5.7A,and the Error Vector Magnitude(EVM) with HS-DPCCH test in clause 5.13.1.A,and HSDPA EVM with phase discontinuity in clause 5.13.1AA, \triangle ACK and \triangle NACK= 8 (Ahs=30/15) with β hs=30/15* β c,and \triangle CQI=

7 (Ahs=24/15) with βhs=24/15*βc.

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

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

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



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Number of SMLs per HARQ Process	9600 SMLs
Coding Rate	0.67
Number of Physical Channel Codes	5

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

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

Table 7: HSDPA UE category

b) HSUPA

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



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Sub -test₽	βοσ	βde	β _d (SF) _e	β₀∕β⋴ℴ	β _{hs} (1	βec⁴³	$eta_{ ext{ed}arphi}$	β _e _o (SF)+ ³	βed↔ (code)↔	CM(2)+1 (dB)+2	MP R↓ (dB)↓	AG ⁽⁴)↔ Inde x↔	E- TFC I&
1₽	11/15(3)+3	15/15(3)	64₽	11/15(3)43	22/15₽	209/22 5₊³	1039/225₽	4₽	1₽	1.04	0.0₽	20₽	75₽
2₽	6/15₽	15/15₽	64₽	6/15₽	12/15₽	12/15₽	94/75₽	4₽	1₽	3.0∉	2.0₽	12 ₽	67₽
3₽	15/150	9/15₽	64₽	15/9₽	30/15₽	30/15₽	β _{ad1} :47/1 5 ₄ β _{ed2:47/1} 5 ₄	4₽	2₽	2.0∉	1.0₽	15.0	92₽
4₽	2/15₽	15/15₽	64₽	2/15₽	4/15₽	2/15₽	56/75₽	4₽	1₽	3.0₽	2.0₽	17₽	71₽
5₽	15/15(4)43	15/15(4)(3	64₽	15/15(4)43	30/15₽	24/15₽	134/15₽	4₽	1₽	1.0€	0.0₽	21	81₽

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

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

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

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

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

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

Table 8: Subtests for WCDMA Release 6 HSUPA

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Speading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)	
1	1	4	10	4	7110	0.7296	
2	2	8	2	4	2798	1 4502	
2	2	4	10	10 4		1.4592	
3	2	4	10	4	14484	1.4592	
4	2	8	2	2	5772	2.9185	
4	2	4	10	2	20000	2.00	
5	2	4	10	2	20000	2.00	
6	4	8	10	2SF2&2SF	11484	5.76	
(No DPDCH)	4	4	2	4	20000	2.00	
7	4	8	2	2SF2&2SF	22996	?	
(No DPDCH)	4	4	10	4	20000	?	

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

Table 9: HSUPA UE category



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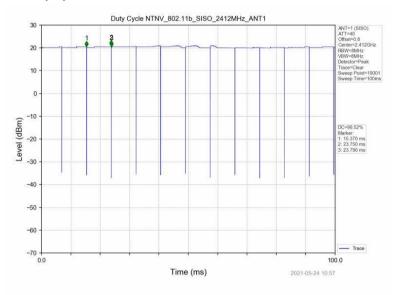
7.2.2 Wi-Fi Test Configuration

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.

7.2.2.1 Duty cycle

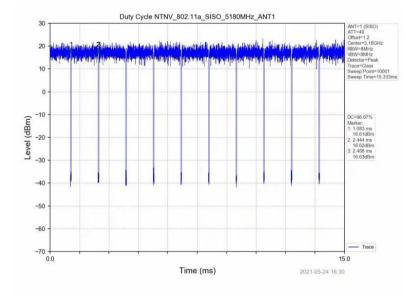
1) 2.4GHz Wi-Fi 802.11b:

WI-FI1 802.11b 1M: Duty cycle= (23.75-15.37) / (23.79-15.37) =99.52%



2) 5GHz Wi-Fi 802.11a:

WI-FI1 802.11a 6M: Duty cycle= (2.444-1.083) / (2.488-1.083) =96.87%





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7.2.2.2 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 on manufacturer justification, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions (left, right, touch, tilt or subsequent surfaces and edges) are tested.
- 3) For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. a) Additional power measurements may be required for this step, which should be limited to those necessary for identifying the subsequent highest output power channels.

7.2.2.3 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.

7.2.2.4 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



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power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

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

7.2.2.5 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



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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.

7.2.2.6 5 GHz Wi-Fi SAR Procedures

• U-NII-1 and U-NII-2A Bands

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

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

• U-NII-2C and U-NII-3 Bands

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

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



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• OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

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

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

• SAR Test Requirements for OFDM configurations

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



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7.2.3 BluetoothTest Configuration

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



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7.2.4 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The 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	3.0	5	10	15	20				
	MHz	MHz	MHz	MHz	MHz	MHz				
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1			
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1			
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2			

C) A-MPR

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

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

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

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

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

4) Higher order modulations

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



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

E) Other channel bandwidth standalone SAR test requirements

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



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8 Test Result

8.1 Measurement of RF Conducted Power

8.1.1 Conducted Power Of WCDMA

o.i.i oonaao	ted Power Of WCDMA	WCDMA Band	I		
	Averag	ge Conducted Pov			
Channel	Mode	9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	23.02	24.04	24.01	24.5
	Subtest 1	19.55	19.81	19.31	21
LICDDA	Subtest 2	19.77	19.56	19.55	21
HSDPA	Subtest 3	19.79	19.79	19.8	21
	Subtest 4	19.3	19.28	19.78	21
	Subtest 1	19.62	19.26	19.8	21
	Subtest 2	19.24	19.6	19.84	21
HSUPA	Subtest 3	19.3	19.66	19.59	21
	Subtest 4	19.62	19.56	19.66	21
	Subtest 5	19.79	19.57	19.61	21
		WCDMA Band I	V		
	Averag	ge Conducted Pov	ver(dBm)		
Channel	Mode	1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	24.06	24.09	24.2	24.5
	Subtest 1	19.26	19.82	19.97	21.5
HSDPA	Subtest 2	19.8	19.36	19.47	21.5
ПОДРА	Subtest 3	19.3	19.82	19.96	21.5
	Subtest 4	19.3	19.6	20	21.5
	Subtest 1	19.81	19.67	19.79	21.5
	Subtest 2	19.33	19.36	19.98	21.5
HSUPA	Subtest 3	19.6	19.84	19.99	21.5
	Subtest 4	19.25	19.62	19.46	21.5
	Subtest 5	19.8	19.66	19.99	21.5
		WCDMA Band \	/		
	Averag	ge Conducted Pov	ver(dBm)		
Channel	Mode	4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	25.01	24.23	24.27	25.5
	Subtest 1	19.56	19.46	19.49	21.5
HSDPA -	Subtest 2	19.71	19.91	19.54	21.5
HOUFA	Subtest 3	19.22	19.66	20.03	21.5
	Subtest 4	19.74	19.72	19.83	21.5
	Subtest 1	19.52	19.75	19.78	21.5
	Subtest 2	19.21	19.92	20.04	21.5
HSUPA	Subtest 3	19.26	19.77	20.04	21.5
	Subtest 4	19.2	19.72	19.82	21.5
	Subtest 5	19.26	19.8	19.99	21.5

Table 10: Conducted Power Of WCDMA



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8.1.2 Conducted Power Of LTE

6.1.2 COII	LTE Ban				Conducted	Power(dBm)
Bandwidth	Modulation	RB size	RB offset	Channel 18607	Channel 18900	Channel 19193	Tune up
		1	0	23.21	23.2	22.9	23.5
		1	2	23.23	23	23.01	23.5
		1	5	23.05	22.92	22.9	23.5
	QPSK	3	0	23.08	23.05	22.99	23.5
		3	2	23.2	23.07	23.01	23.5
		3	3	23.06	23.04	23.01	23.5
1.4MHz		6	0	22.13	22.02	21.95	22.5
1.4111112		1	0	22.55	22.44	22.43	23
		1	2	22.63	22.52	22.43	23
		1	5	22.54	22.48	22.34	23
	16QAM	3	0	22.43	22.71	22.38	22
		3	2	22.48	22.75	22.33	22
		3	3	22.43	22.71	22.21	22
		6	0	21.47	21.53	21.06	22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Balluwiutii	Modulation	ND SIZE	KD 011561	18615	18900	19185	rune up
		1	0	23.19	23.19	23.01	23.5
		1	7	23.21	23.19	23.1	23.5
		1	14	22.99	23.09	22.99	23.5
	QPSK	8	0	22.33	22.18	21.99	22.5
		8	4	22.47	22.17	22.03	22.5
		8	7	22.48	22.21	21.97	22.5
3MHz		15	0	22.3	22.16	21.99	22.5
SIVITIZ		1	0	23.01	22.6	22.69	23
		1	7	23.11	22.72	22.67	23
		1	14	22.97	22.59	22.42	23
	16QAM	8	0	21.63	21.59	21.31	22
		8	4	21.65	21.64	21.34	22
		8	7	21.62	21.6	21.12	22
		15	0	21.55	21.59	21.16	22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawidii	Modulation	ND 3IZE		18625	18900	19175	•
		1	0	23.13	23.17	22.96	23.5
		1	13	23.07	23.06	23	23.5
5MHz	QPSK	1	24	22.96	22.97	22.94	23.5
V 12	Q, O,	12	0	22.2	22.15	22.04	22.5
		12	6	22.38	22.17	22.05	22.5
		12	13	22.42	22.03	21.99	22.5



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Ţ				T			
_		25	0	22.37	22.11	22.01	22.5
		1	0	22.29	22.6	22.66	23
		1	13	22.37	22.68	22.68	23
		1	24	22.28	22.56	22.21	23
	16QAM	12	0	21.42	21.49	21.16	22
		12	6	21.51	21.56	21.12	22
		12	13	21.48	21.5	21.02	22
		25	0	21.52	21.54	21.04	22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwiutii	Modulation	ND SIZE	KB Ollset	18650	18900	19150	rune up
		1	0	23.06	23.16	23.01	23.5
		1	25	23.2	23.23	23.13	23.5
		1	49	22.96	23.08	22.97	23.5
	QPSK	25	0	22.21	22.13	22.11	22.5
		25	13	22.32	22.15	22.06	22.5
		25	25	22.36	22.19	22.03	22.5
400411-		50	0	22.28	22.13	22.07	22.5
10MHz		1	0	23.03	22.59	22.61	23
		1	25	23.14	22.78	22.62	23
		1	49	23.02	22.57	22.39	23
	16QAM	25	0	21.61	21.69	21.15	22
		25	13	21.62	21.66	21.14	22
		25	25	21.62	21.69	21.07	22
		50	0	21.58	21.61	21.13	22
				Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	18675	18900	19125	Tune up
		1	0	23.02	23.08	23.01	23.5
		1	38	23.04	23.12	23.04	23.5
		1	74	22.9	22.9	22.88	23.5
	QPSK	36	0	22.29	22.19	22.07	22.5
		36	18	22.36	22.15	22.11	22.5
		36	39	22.37	22.16	22.09	22.5
15MHz		75	0	22.41	22.18	22.11	22.5
1311112		1	0	23	22.92	22.59	23
		1	38	23.07	22.97	22.37	23
		1	74	22.95	22.71	22.12	23
	16QAM	36	0	21.61	21.57	21.31	22
		36	18	21.59	21.6	21.25	22
		36	39	21.56	21.56	21.11	22
		75	0	21.6	21.59	21.13	22
Bandwidth	Modulation	RB size	RB offset	Channel 18700	Channel 18900	Channel 19100	Tune up
		1	0	22.78	22.89	22.86	23.5
20MHz	QPSK	1	50	23.15	23.24	23.18	23.5
					20.27	20.10	_5.5



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	1	99	22.75	22.78	22.72	23.5
	50	0	22.09	22.16	22.05	22.5
	50	25	22.12	22.07	22.07	22.5
	50	50	22.06	22.04	21.99	22.5
	100	0	22.08	22.1	22.06	22.5
	1	0	22.84	22.57	22.41	23
	1	50	22.91	22.9	22.49	23
	1	99	22.83	22.27	22.03	23
16QAM	50	0	21.58	21.46	21.14	22
	50	25	21.59	21.53	21.14	22
	50	50	21.49	21.46	21.01	22
	100	0	21.58	21.42	21.09	22

	LTE Baı	nd 4			Conducted P	ower(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel 19957	Channel 20175	Channel 20393	Tune up	
		1	0	23.42	23.5	23.61	24	
		1	2	23.54	23.64	23.68	24	
		1	5	23.43	23.49	23.6	24	
	QPSK	3	0	23.5	23.63	23.64	24	
		3	2	23.54	23.65	23.71	24	
		3	3	23.51	23.63	23.68	24	
1.4MHz		6	0	22.46	22.59	22.65	24	
1.7141112		1	0	22.57	22.52	22.54	23	
		1	2	22.68	22.61	22.63	23	
		1	5	22.53	22.52	22.55	23	
	16QAM	3	0	22.46	22.78	22.82	23	
		3	2	22.51	22.84	22.83	23	
		3	3	22.49	22.79	22.84	23	
		6	0	21.51	21.6	21.63	22	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
Banawiatii	Modulation	110 3120	TO Oliset	19965	20175	20385	rune up	
		1	0	23.5	23.69	23.68	24	
		1	7	23.64	23.8	23.79	24	
		1	14	23.45	23.62	23.63	24	
	QPSK	8	0	22.5	22.66	22.7	23	
3MHz		8	4	22.54	22.65	22.71	23	
3111112		8	7	22.5	22.64	22.66	23	
		15	0	22.49	22.61	22.67	23	
		1	0	23.08	22.7	22.8	23.5	
	16QAM	1	7	23.18	22.81	22.94	23.5	
		1	14	22.99	22.61	22.78	23.5	



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		8	0	21.65	21.67	21.66	22
		8	4	21.7	21.72	21.63	22
		8	7	21.67	21.67	21.61	22
		15	0	21.58	21.63	21.61	22
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	19975	20175	20375	Tune up
		1	0	23.41	23.53	23.56	24
		1	13	23.55	23.68	23.69	24
		1	24	23.42	23.51	23.57	24
	QPSK	12	0	22.49	22.58	22.66	23
		12	6	22.55	22.67	22.7	23
		12	13	22.47	22.55	22.63	23
		25	0	22.47	22.57	22.67	23
5MHz		1	0	22.27	22.62	22.8	23.5
		1	13	22.41	22.75	22.95	23.5
		1	24	22.24	22.6	22.77	23.5
	16QAM	12	0	21.44	21.5	21.66	22
	100,	12	6	21.53	21.62	21.73	22
		12	13	21.43	21.53	21.66	22
			0	21.47	21.55	21.65	22
		25		Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20000	20175	20350	Tune up
		1	0	23.47	23.61	23.62	24
		1	25	23.66	23.73	23.8	24
	-	1	49	23.5	23.57	23.64	24
	QPSK	25	0	22.5	22.65	22.68	23
		25	13	22.51	22.58	22.66	23
		25	25	22.55	22.56	22.6	23
408411-		50	0	22.53	22.57	22.61	23
10MHz		1	0	22.64	23.13	22.6	23.5
		1	25	22.82	23.27	22.77	23.5
		1	49	22.7	23.07	22.57	23.5
	16QAM	25	0	21.52	21.63	21.77	22
		25	13	21.54	21.65	21.72	22
		25	25	21.53	21.63	21.68	22
		50	0	21.5	21.57	21.65	22
Dandy:	Modulatian	DD a!=a	DD effect	Channel	Channel	Channel	Tuna
Bandwidth	Modulation	RB size	RB offset	20025	20175	20325	Tune up
		1	0	23.45	23.51	23.52	24
		1	38	23.59	23.62	23.68	24
15MHz	QPSK	1	74	23.45	23.44	23.48	24
		36	0	22.54	22.65	22.72	23
		36	18	22.6	22.68	22.74	23



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	,		,			•	
		36	39	22.59	22.65	22.69	23
		75	0	22.6	22.67	22.72	23
		1	0	22.81	22.69	23.04	23.5
		1	38	22.93	22.79	23.19	23.5
		1	74	22.77	22.57	23	23.5
	16QAM	36	0	21.55	21.61	21.65	22
		36	18	21.54	21.63	21.68	22
		36	39	21.57	21.61	21.66	22
		75	0	21.53	21.62	21.66	22
Bandwidth	Madulation	DD oizo	DD offeet	Channel	Channel	Channel	Tungun
Danawiath	Bandwidth Modulation	RB size	RB offset	20050	20175	20300	Tune up
		1	0	23.23	23.33	23.36	24
		1	50	23.73	23.8	23.74	24
	QPSK	1	99	23.25	23.3	23.32	24
		50	0	22.56	22.62	22.65	23
		50	25	22.54	22.68	22.66	23
		50	50	22.54	22.58	22.57	23
20MHz		100	0	22.58	22.61	22.61	23
ZUIVITZ		1	0	22.82	22.52	22.62	23.5
		1	50	23.28	22.94	23	23.5
		1	99	22.85	22.43	22.54	23.5
	16QAM	50	0	21.56	21.62	21.62	22
		50	25	21.6	21.59	21.63	22
		50	50	21.55	21.6	21.54	22
		100	0	21.58	21.61	21.6	22

	LTE E	Band 5		Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun	
Danuwidin	Modulation	ND SIZE	KD Ollset	20407	20525	20643	Tune up	
		1	0	23.82	23.95	24	24.5	
		1	2	23.94	24.05	24.09	24.5	
QPSK		1	5	23.87	23.97	24.02	24.5	
	QPSK	3	0	23.87	24.05	24.11	23.5	
		3	2	23.93	24.09	24.15	23.5	
		3	3	23.92	24.08	24.13	23.5	
1.4MHz		6	0	22.9	23.07	23.1	23.5	
1.411172		1	0	22.95	22.9	22.96	24	
		1	2	23.06	23	23.06	24	
		1	5	23	22.95	22.99	24	
	16QAM	3	0	22.86	23.15	23.22	22.5	
		3	2	22.91	23.21	23.29	22.5	
		3	3	22.89	23.17	23.24	22.5	
		6	0	21.96	22.08	22.11	22.5	



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5		DD :	55 " .	Channel	Channel	Channel	-
Bandwidth	Modulation	RB size	RB offset	20415	20525	20635	Tune up
		1	0	23.93	24.02	24.1	24.5
		1	7	24.06	24.17	24.21	24.5
		1	14	23.94	24.03	24.05	24.5
	QPSK	8	0	22.92	23.1	23.11	23.5
		8	4	22.96	23.08	23.14	23.5
		8	7	22.93	23.03	23.06	23.5
08411-		15	0	22.91	23.04	23.06	23.5
3MHz		1	0	22.91	23.16	23.55	24
		1	7	23.1	23.31	23.68	24
		1	14	22.92	23.2	23.52	24
	16QAM	8	0	22.01	22.08	22.27	22.5
		8	4	22.06	22.09	22.32	22.5
		8	7	22.02	22.03	22.25	22.5
		15	0	21.98	22.02	22.18	22.5
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
Danawiani	Modulation	KD SIZE	KD Oliset	20425	20525	20625	Tune up
		1	0	23.8	23.91	23.99	24.5
		1	13	23.96	24.06	24.15	24.5
		1	24	23.84	23.99	23.99	24.5
	QPSK	12	0	22.84	23.1	23.06	23.5
		12	6	22.97	23.11	23.11	23.5
		12	13	23.02	23	22.92	23.5
5MHz		25	0	22.92	23.04	23	23.5
SIVITZ		1	0	23	22.75	23.09	24
		1	13	23.21	22.94	23.18	24
		1	24	23.04	22.84	23.06	24
	16QAM	12	0	21.91	22.08	22.05	22.5
		12	6	22.01	22.12	22.13	22.5
		12	13	22.06	22.01	21.95	22.5
		25	0	21.96	22.09	22.08	22.5
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawiatii	Modulation	110 3126	ND onset	20450	20525	20600	Turie up
		1	0	23.88	24.05	24.1	24.5
		1	25	24.13	24.22	24.19	24.5
		1	49	23.96	24.04	24.05	24.5
	QPSK	25	0	22.84	23.23	23.04	23.5
10MHz		25	13	23.01	23.04	23.11	23.5
		25	25	22.92	23.04	22.98	23.5
		50	0	22.92	23.14	23	23.5
	160AM	1	0	23.37	23	23.24	24
	16QAM	1	25	23.59	23.22	23.36	24



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1	49	23.37	23.06	23.19	24
25	0	21.92	22.33	22.15	22.5
25	13	22.07	22.16	22.14	22.5
25	25	21.98	22.16	22.02	22.5
50	0	21.91	22.19	22.04	22.5

	LTE FDD	Band 12			Conducted	Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawiain	Modulation	RD SIZE	KD Oliset	23017	23095	23173	rune up
		1	0	23.23	23.14	23.08	24
		1	2	23.35	23.25	23.28	24
		1	5	23.23	23.15	23.12	24
	QPSK	3	0	23.34	23.26	23.19	23.5
		3	2	23.37	23.28	23.24	23.5
		3	3	23.32	23.25	23.2	23.5
1.4MHz		6	0	22.38	22.27	22.24	23.5
1.4WITZ		1	0	22.46	22.16	22.1	23
		1	2	22.56	22.29	22.27	23
	16QAM	1	5	22.43	22.13	22.17	23
		3	0	22.33	22.45	22.26	22.5
		3	2	22.36	22.49	22.27	22.5
		3	3	22.35	22.45	22.23	22.5
		6	0	21.39	21.28	21.17	22.5
Bandwidth	Modulation	DP cizo	DR offeet	Channel	Channel	Channel	Tupo up
Danawiain	Modulation	RB size RB offset	23025	23095	23165	Tune up	
		1	0	23.25	23.19	23.16	24
		1	7	23.38	23.29	23.26	24
		1	14	23.18	23.11	23.13	24
	QPSK	8	0	22.31	22.23	22.19	23
		8	4	22.34	22.23	22.18	23
		8	7	22.24	22.19	22.17	23
3MHz		15	0	22.26	22.2	22.14	23
SIVITZ		1	0	22.46	22.76	22.24	23
		1	7	22.58	22.9	22.32	23
		1	14	22.4	22.65	22.13	23
	16QAM	8	0	21.28	21.34	21.22	22
		8	4	21.31	21.38	21.24	22
		8	7	21.24	21.33	21.2	22
		15	0	21.24	21.26	21.18	22
Don duri déla	Modulation	DD oizo	DD offeet	Channel	Channel	Channel	Tune up
Bandwidth	Modulation	RB size	RB offset	23035	23095	23155	
5MHz	QPSK	1	0	23.19	23.09	23.07	24



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1								
12			1	13	23.25	23.21	23.15	24
12 6 22.31 22.29 22.23 23 12 13 22.29 22.2 22.09 23 25 0 22.24 22.2 22.15 23 1			1	24	23.13	23.05	23.03	24
12			12	0	22.28	22.2	22.21	23
16QAM 25 0 22.24 22.2 22.15 23			12	6	22.31	22.29	22.23	23
Tune up			12	13	22.29	22.2	22.09	23
1			25	0	22.24	22.2	22.15	23
Table Tabl			1	0	22.34	22.41	21.96	23
Tune up			1	13	22.4	22.48	22.02	23
Table Tabl			1	24	22.25	22.4	21.9	23
Table 12		16QAM	12	0	21.26	21.18	21.21	22
Bandwidth Modulation RB size RB offset Channel Channel			12	6	21.29	21.27	21.18	22
Bandwidth Modulation RB size RB offset Channel 23060 Channel 23095 Channel 23130 Tune up 1 0 23.29 23.24 23.24 24 1 25 23.4 23.31 23.35 24 1 49 23.08 23.09 23.13 24 25 0 22.32 22.29 22.31 23 25 13 22.33 22.29 22.23 23 25 25 25 22.29 22.21 22.16 23 25 25 22.29 22.21 22.16 23 25 25 22.29 22.21 22.16 23 1 0 22.48 22.82 22.31 23 1 25 22.59 22.92 22.39 23 1 49 22.33 22.7 22.14 23 16QAM 25 0 21.36 21.35 21.4 22			12	13	21.25	21.21	21.09	22
RB size RB offset 23060 23095 23130 Tune up 10MHz 1 0 23.29 23.24 23.24 24 1 25 23.4 23.31 23.35 24 1 49 23.08 23.09 23.13 24 25 0 22.32 22.29 22.31 23 25 13 22.33 22.29 22.23 23 25 25 25 22.29 22.21 22.16 23 50 0 22.34 22.23 22.25 23 1 0 22.48 22.82 22.31 23 1 25 22.59 22.92 22.39 23 1 49 22.33 22.7 22.14 23 16QAM 25 0 21.36 21.35 21.4 22 25 13 21.33 21.33 21.28 <th></th> <td></td> <td>25</td> <td>0</td> <td>21.26</td> <td>21.17</td> <td>21.17</td> <td>22</td>			25	0	21.26	21.17	21.17	22
10MHz 1	Don dwidth	Modulation	DD size	DD offeet	Channel	Channel	Channel	Tungun
10MHz 1	Bandwidth	Modulation	RD SIZE	RD Ollset	23060	23095	23130	Tune up
1 49 23.08 23.09 23.13 24 25 0 22.32 22.29 22.31 23 25 13 22.33 22.29 22.23 23 25 25 25 22.29 22.21 22.16 23 50 0 22.34 22.23 22.25 23 1 0 22.48 22.82 22.31 23 1 25 22.59 22.92 22.31 23 1 49 22.33 22.7 22.14 23 16QAM 25 0 21.36 21.35 21.4 22 25 13 21.33 21.33 21.28 22 25 25 25 21.33 21.33 21.25 22			1	0	23.29	23.24	23.24	24
10MHz 25 0 22.32 22.29 22.31 23 25 25 25 25 22.29 22.21 22.16 23 25 50 0 22.34 22.23 22.25 23 23 24 25 25 22.29 22.21 22.16 23 25 25 22.29 22.21 22.16 23 25 25 22.31 23 21 23 22.25 23 23 24 25 25 25 21 23 22.25 23 23 24 25 25 25 21 23 25 21 23 22 25 25 23 25 21 23 22 25 25 21 23 22 22 22 22 22 22 22 22 22 22 22 22			1	25	23.4	23.31	23.35	24
10MHz 25			1	49	23.08	23.09	23.13	24
10MHz 25		QPSK	25	0	22.32	22.29	22.31	23
10MHz 50 0 22.34 22.23 22.25 23 1 0 22.48 22.82 22.31 23 1 25 22.59 22.92 22.39 23 1 49 22.33 22.7 22.14 23 16QAM 25 0 21.36 21.35 21.4 22 25 13 21.33 21.33 21.28 22 25 25 21.33 21.3 21.25 22		QPSK						
1 0 22.48 22.82 22.31 23 1 25 22.59 22.92 22.39 23 1 49 22.33 22.7 22.14 23 16QAM 25 0 21.36 21.35 21.4 22 25 13 21.33 21.33 21.28 22 25 25 21.33 21.33 21.25 22			25	13	22.33	22.29	22.23	23
1 0 22.48 22.82 22.31 23 1 25 22.59 22.92 22.39 23 1 49 22.33 22.7 22.14 23 16QAM 25 0 21.36 21.35 21.4 22 25 13 21.33 21.33 21.28 22 25 25 21.33 21.3 21.25 22								
1 49 22.33 22.7 22.14 23 16QAM 25 0 21.36 21.35 21.4 22 25 13 21.33 21.33 21.28 22 25 25 21.33 21.33 21.25 22	10MH-		25	25	22.29	22.21	22.16	23
16QAM 25 0 21.36 21.35 21.4 22 25 13 21.33 21.33 21.28 22 25 25 21.33 21.3 21.25 22	10MHz		25 50	25 0	22.29 22.34	22.21 22.23	22.16 22.25	23 23
25 13 21.33 21.33 21.28 22 25 25 21.33 21.3 21.25 22	10MHz		25 50 1	25 0 0	22.29 22.34 22.48	22.21 22.23 22.82	22.16 22.25 22.31	23 23 23
25 25 21.33 21.3 21.25 22	10MHz		25 50 1 1	25 0 0 25	22.29 22.34 22.48 22.59	22.21 22.23 22.82 22.92	22.16 22.25 22.31 22.39	23 23 23 23
	10MHz	16QAM	25 50 1 1 1	25 0 0 25 49	22.29 22.34 22.48 22.59 22.33	22.21 22.23 22.82 22.92 22.7	22.16 22.25 22.31 22.39 22.14	23 23 23 23 23 23
50 0 21.35 21.26 21.25 22	10MHz	16QAM	25 50 1 1 1 1 25	25 0 0 25 49 0	22.29 22.34 22.48 22.59 22.33 21.36	22.21 22.23 22.82 22.92 22.7 21.35	22.16 22.25 22.31 22.39 22.14 21.4	23 23 23 23 23 23 22
	10MHz	16QAM	25 50 1 1 1 25 25	25 0 0 25 49 0 13	22.29 22.34 22.48 22.59 22.33 21.36 21.33	22.21 22.23 22.82 22.92 22.7 21.35 21.33	22.16 22.25 22.31 22.39 22.14 21.4 21.28	23 23 23 23 23 23 22 22

	LTE FDD Ban	d 13		Conducted Power(dBm)						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tupo up			
Danuwiutii	iviodulation	ND SIZE	KD Ollset	23205	23230	23255	rune up			
		1	0	23.22	23.24	23.19	24			
		1	13	23.32	23.32	23.23	24			
		1	24	23.19	23.17	23.17	24			
	QPSK	12	0	22.22	22.25	22.29	23			
5MHz		12	6	22.31	22.36	22.32	23			
		12	13	22.36	22.29	nannel Channel 3230 23255 3.24 23.19 24 3.32 23.23 24 3.17 23.17 24 2.25 22.29 23 2.36 22.32 23 2.29 22.15 23 2.26 22.21 23 2.35 22.45 23	23			
		25	0	22.27	22.26	22.21	23			
	160011	1	0	22.11	22.35	22.45	23			
	16QAM	1	13	22.2	22.41	22.53	23			



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		1	24	22.08	22.26	22.48	23
		12	0	21.18	21.17	21.3	22
		12	6	21.3	21.27	21.32	22
		12	13	21.33	21.24	21.13	22
		25	0	21.29	21.24	21.17	22
Bandwidth	Modulation	RB size	DR offcot	Channel	Channel	Channel	Tupo up
Danuwidin	Modulation	ND SIZE	KB oliset	NA	23230	NA	rune up
		1	0	NA	23.31	NA	24
		1	25	NA	23.49	NA	24
		1	49	NA	23.26	NA 24 NA 24 NA 23 NA 23	
	QPSK	25	0	NA	22.16	NA	23
		25	13	NA	22.34	NA	23
		25	25	NA	22.16	NA	23
10MHz		50	0	NA	22.16	NA	23
IUNITZ		1	0	NA	22.36	NA	23
		1	6 21.3 21.27 21.32 13 21.33 21.24 21.13 0 21.29 21.24 21.17 RB offset Channel Channel Channel Channel NA 23230 NA 0 NA 23.31 NA 25 NA 23.49 NA 49 NA 23.26 NA 0 NA 22.16 NA 13 NA 22.34 NA 25 NA 22.16 NA 0 NA 22.16 NA 0 NA 22.36 NA 25 NA 22.45 NA 49 NA 22.28 NA 0 NA 21.22 NA 13 NA 21.39 NA 25 NA 21.21 NA	23			
		1	49	NA	22.28	NA	23
	16QAM	25	0	NA	21.22	21.3 22 21.32 22 21.13 22 21.17 22 Channel NA Tune up NA 24 NA 24 NA 23 NA 23	
		25	13	NA	21.39	NA	22
		25	25	NA	21.21	NA	22
		50	0	NA	21.19	NA	22

	LTE FDD Ban	d 17			Conducted	Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
Danawian	Modulation	KD SIZE	KD Ollset	23755	23790	23825	Tune up
		1	0	23.14	23.13	23.14	23.5
		1	13	23.22	23.21	23.18	23.5
		1	24	23.08	23.04	23.06	23.5
	QPSK	12	0	22.2	22.26	22.27	22.5
		12	6	22.27	22.2	22.28	22.5
		12	13	22.22	22.19	22.15	22.5
EMU-		25	0	22.25	22.2	22.2	22.5
5MHz		1	0	22.46	22.03	22.27	23
		1	13	22.49	22.07	22.31	23
		1	24	22.38	21.94	22.18	23
	16QAM	12	0	21.26	21.21	21.22	22
		12	6	21.33	21.21	21.24	22
		12	13	21.28	21.15	21.14	22
		25	0	21.23	21.2	21.21	22
Bandwidth	Modulation	DR cizo	RB offset	Channel	Channel	Channel	Tune up
Danuwium	width Modulation RB size	VD 011261	23780	23790	23800	rune up	
10MHz	QPSK	1	0	23.24	23.25	23.25	23.5



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	1	25	23.29	23.32	23.3	23.5
	1	49	23.08	23.17	23.12	23.5
	25	0	22.31	22.34	22.32	22.5
	25	13	22.26	22.3	22.28	22.5
	25	25	22.21	22.17	22.2	22.5
	50	0	22.24	22.27	22.2	22.5
	1	0	22.8	22.29	22.42	23
	1	25	22.88	22.36	22.55	23
	1	49	22.65	22.19	22.28	23
16QAM	25	0	21.34	21.38	21.38	22
	25	13	21.31	21.32	21.3	22
	25	25	21.28	21.25	21.2	22
	50	0	21.24	21.25	21.26	22

Table 11: 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		16.01	16.5
802.11b	6	2437	1	15.77	16.5
	11	2462		15.72	16.5
	1	2412		13.81	14.5
802.11g	6	2437	6	13.95	14.5
	11	2462		13.96	14.5
	1	2412		13.56	14.5
802.11n-HT20	6	2437	MCS0	13.78	14.5
	11	2462		13.65	14.5
	3	2422		13.42	14.5
802.11n-HT40	6	2437	MCS0	13.45	14.5
002.1111	9	2452		13.35	14.5

Band	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm)	Tune up			
		36	5180		14.5	15			
	802.11a	40	5200	6	13.91	15			
		48	5240		13.62	15			
	000 11n	36	5180		13.34	13.5			
	802.11n HT20	40	5200	MCS0	13.28	13.5			
	11120	48	5240		13.22	13.5			
5.2GHz	802.11n HT40	38	5190	MCSO	12.67	13.5			
3.20112	002.111111140	46	5230	IVICSU	12.53	13.5			
		36	5180		13.03	13.5			
	802.11ac 20M	40	5200	MCS0	13.02	13.5			
		48	38 5190 MCS0 12.67 13. 46 5230 12.53 13. 36 5180 13.03 13. 40 5200 MCS0 13.02 13. 48 5240 12.55 13. 38 5190 MCS0 12.93 13. 46 5230 MCS0 12.58 13.			13.5			
	802.11ac 40M	38	5190	MCSO	12.93	13.5			
	002.11ac 40lvi	46	5230	(MHz) (Mbps) Fower (dBm) Tune (dBm) 5180 14.5 15 5200 6 13.91 15 5240 13.62 15 5180 13.34 13.5 5200 MCS0 13.28 13.5 5240 13.22 13.5 5190 MCS0 12.67 13.5 5180 13.03 13.5 5200 MCS0 13.02 13.5 5240 12.55 13.5 5190 MCS0 12.93 13.5 5230 MCS0 12.64 13.5 5210 MCS0 12.64 13.5 Frequency (MHz) Data Rate (Mbps) Average Power (dBm) Tune 5260 13.64 14 5320 13.69 14 5320 12.97 13.5 5300 MCS0 12.71 13.5 5320 12.93 13.5 5270 MCS0 1					
	802.11ac 80M	42	5210	MCS0	12.64	13.5			
Band	mode	Channel	Frequency (MHz)		Power	Tune up			
		52	5260		13.64	14			
	802.11a	60	5300	6	13.6	14			
		64	5320		13.89	14			
5.3GHz	000 44*	52	5260		12.97	13.5			
3.3GHZ	802.11n HT20	60	5300	MCS0	12.71	13.5			
	11120	64	5320		12.93	13.5			
	802.11n HT40	54	5270	MCSO	12.35	13.5			
	002.111111140	62	5310	IVICOU	12.73	13.5			



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		52	5260	I	12.58	13.5
	802.11ac 20M	60	5300	MCS0	12.8	13.5
	002	64	5320		13.05	13.5
		54	5270		12.5	13.5
	802.11ac 40M	62	5310	MCS0	12.82	13.5
	802.11ac 80M	58	5290	MCS0	12.48	13.5
Band	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm)	Tune up
		100	5500		14.34	15
	802.11a	116	5580	6	14.52	15
		140	5700		14.76	15
	222.11	100	5500		13.29	14
	802.11n HT20	116	5580	MCS0	13.35	14
	П120	140	5700		13.64	14
		102	5510		11.39	12
	802.11n HT40	110	5550	MCS0	11.35	12
5.5GHz		134	5670		11.69	12
		100	5500		13.44	14
	802.11ac 20M	116	5580	MCS0	13.37	14
		140	5700		13.77	14
	802.11ac 40M	102	5510		11.44	12
		110	5550	MCS0	11.6	12
	40101	134	5670		11.8	12
	802.11ac	106	5530	MCCO	13.47	14
	80M	122	5610	MCS0	13.38	14
Band	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm)	Tune up
		149	5745		14.12	14.5
	802.11a	157	5785	6	13.86	14.5
		165	5825		13.7	14.5
	802.11n	149	5745		13.05	13.5
	HT20	157	5785	MCS0	12.8	13.5
	20	165	5825		12.86	13.5
	802.11n HT40	151	5755	MCS0	12.46	13.5
5.8GHz	002.111111140	159	5795	141000	12.6	13.5
		149	5745		13.18	13.5
	802.11ac 20M	157	5785	MCS0	12.87	13.5
		165	5825		12.84	13.5
	802.11ac	151	5755	MCS0	12.55	13.5
	40M	159	5795	141000	12.77	13.5
	802.11ac 80M	155	5775	MCS0	12.84	13.5

Table 12: Conducted Power Of Wi-Fi Note:



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- 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	T
Modulation	Channel	Frequency (MHz)	Average Conducted Power(dBm)	Tune up (dBm)
	0	2402	8.61	9
GFSK	39	2441	8.9	9
	78	2480	7.36	9
	0	2402	8.62	9.5
π/4DQPSK	39	2441	8.92	9.5
	78	2480	7.2	9.5
	0	2402	8.61	9
8DPSK	39	2441	8.92	9
	78	2480	7.18	9
	BLE_1M		Average Conducted	Tungun
Modulation	Channel	Frequency(MHz)	Average Conducted Power(dBm)	Tune up (dBm)
	0	2402	-4.19	-3
GFSK	19	2440	-3.58	-3
	39	2480	-3.53	-3
	BLE_2M		Average Conducted	Tungun
Modulation	Channel	Frequency(MHz)	Average Conducted Power(dBm)	Tune up (dBm)
	0	2402	-4.12	-3
GFSK	19	2440	-3.47	-3
	39	2480	-3.41	-3

Table 13: Conducted Power Of BT



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8.2 Stand-alone SAR test evaluation

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

Freq. Band	Frequency (GHz)		Averag	e Power	Test Separation	Calculate	Exclusion	Exclusion (Y/N)
·	(GHZ)		dBm	mW	(mm)	Value	Threshold	(1/N)
WCDMA Band II	1.91	Extremity	24.5	281.8	0	77.9	7.5	N
WCDMA Band IV	1.755	Extremity	24.5	281.8	0	74.7	7.5	N
WCDMA Band V	0.849	Extremity	25.5	354.8	0	65.4	7.5	N
LTE band 2	1.91	Extremity	23.5	223.9	0	61.9	7.5	Ν
LTE band 4	1.755	Extremity	24	251.2	0	66.6	7.5	Ν
LTE band 5	0.849	Extremity	24.5	281.8	0	51.9	7.5	Ν
LTE band 12	0.716	Extremity	24	251.2	0	42.5	7.5	Ν
LTE band 13	0.787	Extremity	24	251.2	0	44.6	7.5	Ν
LTE band 17	0.716	Extremity	23.5	223.9	0	37.9	7.5	Ν
Wi-Fi 2.4GHz	2.462	Extremity	16.5	44.7	0	14.0	7.5	N
Wi-Fi 5GHz	5.85	Extremity	15	31.6	0	15.3	7.5	Ν
Bluetooth	2.48	Extremity	9.5	8.9	0	2.8	7.5	Υ

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

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

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

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

Note:

The customer requires testing all surfaces.



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8.3 Measurement of SAR Data

8.3.1 SAR Result Of WCDMA Band II

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp	SAR limit (W/kg)
				Extren	nity Test d	ata With S	SIM1(0mm)					
Front side	RMC	9400/1880	1:1	0.075	0.04	0.03	24.04	24.5	1.112	0.044	22.3	4.0
Back side	RMC	9400/1880	1:1	0.592	0.289	-0.1	24.04	24.5	1.112	0.321	22.3	4.0
Left side	RMC	9400/1880	1:1	0.206	0.11	0.03	24.04	24.5	1.112	0.122	22.3	4.0
Right side	RMC	9400/1880	1:1	0.125	0.061	0.05	24.04	24.5	1.112	0.068	22.3	4.0
Top side	RMC	9400/1880	1:1	0	0	0	24.04	24.5	1.112	0.000	22.3	4.0
Bottom side	RMC	9400/1880	1:1	1.09	0.478	0.15	24.04	24.5	1.112	0.531	22.3	4.0
				Extren	nity Test d	ata With S	SIM2(0mm)					
Bottom side	RMC	9400/1880	1:1	0.97	0.448	0.08	24.04	24.5	1.112	0.498	22.3	4.0
			На	ındheld Ba	ack Test d	ata at the	worst case(0mr	m)				
Handheld Back	RMC	9400/1880	1:1	1.42	0.602	0.04	24.04	24.5	1.112	0.669	22.3	4.0

Table 14: SAR Result Of WCDMA Band II Note:

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



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8.3.2 SAR Result Of WCDMA Band IV

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp	SAR limit (W/kg)
				Extremi	ty Test da	ta With SI	M1(0mm)					
Front side	RMC	1513/1752.6	1:1	0.102	0.051	0.09	24.2	24.5	1.072	0.055	22.2	4.0
Back side	RMC	1513/1752.6	1:1	0.4	0.187	0.04	24.2	24.5	1.072	0.200	22.2	4.0
Left side	RMC	1513/1752.6	1:1	0.156	0.075	-0.05	24.2	24.5	1.072	0.080	22.2	4.0
Right side	RMC	1513/1752.6	1:1	0.143	0.064	0.04	24.2	24.5	1.072	0.069	22.2	4.0
Top side	RMC	1513/1752.6	1:1	0	0	0	24.2	24.5	1.072	0.000	22.2	4.0
Bottom side	RMC	1513/1752.6	1:1	0.545	0.236	0.1	24.2	24.5	1.072	0.253	22.2	4.0
				Extremi	ty Test da	ta With SI	M2(0mm)					
Bottom side	RMC	1513/1752.6	1:1	0.512	0.203	0.16	24.2	24.5	1.072	0.218	22.2	4.0
			Han	dheld Bac	k Test dat	a at the w	orst case(0mm	1)				
Handheld Back	RMC	1513/1752.6	1:1	0.931	0.389	0.03	24.2	24.5	1.072	0.417	22.2	4.0

Table 15: SAR Result Of WCDMA Band IV

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



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8.3.3 SAR Result Of WCDMA Band V

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp	SAR limit (W/kg)
				Extremi	ty Test da	ta With SI	M1(0mm)					
Front side	RMC	4132/826.4	1:1	0.053	0.027	0.14	25.01	25.5	1.119	0.030	22.1	4.0
Back side	RMC	4132/826.4	1:1	0.263	0.138	-0.06	25.01	25.5	1.119	0.154	22.1	4.0
Left side	RMC	4132/826.4	1:1	0.102	0.059	0.09	25.01	25.5	1.119	0.066	22.1	4.0
Right side	RMC	4132/826.4	1:1	0.091	0.045	-0.08	25.01	25.5	1.119	0.050	22.1	4.0
Top side	RMC	4132/826.4	1:1	0	0	0	25.01	25.5	1.072	0.000	22.1	4.0
Bottom side	RMC	4132/826.4	1:1	0.144	0.069	0.06	25.01	25.5	1.119	0.077	22.1	4.0
				Extremi	ty Test da	ta With SI	M2(0mm)					
Back side	RMC	4132/826.4	1:1	0.244	0.123	0.02	25.01	25.5	1.119	0.138	22.1	4.0
			Han	dheld Bad	k Test dat	a at the w	orst case(0mm	1)				
Handheld Back	RMC	4132/826.4	1:1	0.205	0.091	0.11	25.01	25.5	1.119	0.102	22.1	4.0

Table 16: SAR Result Of WCDMA Band V

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



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8.3.4 SAR Result Of LTE Band 2

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Condu cted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
			Extren	nity Test d	ata With S	SIM1(0mm)					
Front side	20M_QPSK 1RB_50	18900/1880	1:1	0.135	0.068	0.01	23.24	23.5	1.062	0.072	22.3	4.0
Front side	20M_QPSK 50RB_0	18900/1880	1:1	0.102	0.053	0.04	22.16	22.5	1.081	0.057	22.3	4.0
Back side	20M_QPSK 1RB_50	18900/1880	1:1	0.538	0.267	-0.02	23.24	23.5	1.062	0.283	22.3	4.0
Back side	20M_QPSK 50RB_0	18900/1880	1:1	0.489	0.244	0.02	22.16	22.5	1.081	0.264	22.3	4.0
Left side	20M_QPSK 1RB_50	18900/1880	1:1	0.188	0.092	0.04	23.24	23.5	1.062	0.098	22.3	4.0
Left side	20M_QPSK 50RB_0	18900/1880	1:1	0.165	0.081	-0.12	22.16	22.5	1.081	0.088	22.3	4.0
Right side	20M_QPSK 1RB_50	18900/1880	1:1	0.152	0.071	0.03	23.24	23.5	1.062	0.075	22.3	4.0
Right side	20M_QPSK 50RB_0	18900/1880	1:1	0.133	0.065	-0.18	22.16	22.5	1.081	0.070	22.3	4.0
Top side	20M_QPSK 1RB_50	18900/1880	1:1	0	0	0	23.24	23.5	1.062	0.000	22.3	4.0
Top side	20M_QPSK 50RB_0	18900/1880	1:1	0	0	0	22.16	22.5	1.081	0.000	22.3	4.0
Bottom side	20M_QPSK 1RB_50	18900/1880	1:1	1.16	0.498	-0.02	23.24	23.5	1.062	0.529	22.3	4.0
Bottom side	20M_QPSK 50RB_0	18900/1880	1:1	0.93	0.411	0.02	22.16	22.5	1.081	0.444	22.3	4.0
			Extren	nity Test d	ata With S	SIM2(0mm)					
Bottom side	20M_QPSK 1RB_50	18900/1880	1:1	0.97	0.455	0.08	23.24	23.5	1.062	0.483	22.3	4.0
		Har	ndheld Ba	ack Test d	ata at the	worst case	e(0mm)					
Handheld Back	20M_QPSK 1RB_50	18900/1880	1:1	1.22	0.52	0.07	23.24	23.5	1.062	0.552	22.3	4.0

Table 17: SAR Result of LTE Band 2 Note:

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



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8.3.5 SAR Result Of LTE Band 4

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Condu cted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
			Extremit	ty Test dat	ta With SI	V1(0mm)						
Front side	20M_QPSK 1RB_50	20175/1732.5	1:1	0.089	0.044	0.04	23.8	24	1.047	0.046	22.2	4.0
Front side	20M_QPSK 50RB_25	20175/1732.5	1:1	0.065	0.031	0.07	22.68	23	1.076	0.033	22.2	4.0
Back side	20M_QPSK 1RB_50	20175/1732.5	1:1	0.384	0.195	0.04	23.8	24	1.047	0.204	22.2	4.0
Back side	20M_QPSK 50RB_25	20175/1732.5	1:1	0.312	0.155	-0.13	22.68	23	1.076	0.167	22.2	4.0
Left side	20M_QPSK 1RB_50	20175/1732.5	1:1	0.133	0.065	0.04	23.8	24	1.047	0.068	22.2	4.0
Left side	20M_QPSK 50RB_25	20175/1732.5	1:1	0.112	0.057	0.09	22.68	23	1.076	0.061	22.2	4.0
Right side	20M_QPSK 1RB_50	20175/1732.5	1:1	0.105	0.049	-0.12	23.8	24	1.047	0.051	22.2	4.0
Right side	20M_QPSK 50RB_25	20175/1732.5	1:1	0.091	0.046	0.05	22.68	23	1.076	0.050	22.2	4.0
Top side	20M_QPSK 1RB_50	20175/1732.5	1:1	0	0	0	23.8	24	1.047	0.000	22.2	4.0
Top side	20M_QPSK 50RB_25	20175/1732.5	1:1	0	0	0	22.68	23	1.076	0.000	22.2	4.0
Bottom side	20M_QPSK 1RB_50	20175/1732.5	1:1	0.672	0.288	0.06	23.8	24	1.047	0.302	22.2	4.0
Bottom side	20M_QPSK 50RB_25	20175/1732.5	1:1	0.612	0.231	0.01	22.68	23	1.076	0.249	22.2	4.0
			Extremit	ty Test dat	a With SI	M2(0mm)						
Bottom side	20M_QPSK 1RB_50	20175/1732.5	1:1	0.623	0.249	0.06	23.8	24	1.047	0.261	22.2	4.0
		Hand	held Bac	k Test dat	a at the wo	orst case(Omm)					
Handheld Back	20M_QPSK 1RB_50	20175/1732.5	1:1	0.913	0.38	0.13	23.8	24	1.047	0.398	22.2	4.0

Table 18: SAR Result of LTE Band 4

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



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8.3.6 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)	Condu cted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
			Extrem	ity Test da	ata With S	IM1(0mm))					
Front side	10M_QPSK 1RB_25	20525/836.5	1:1	0.085	0.041	0.03	24.22	24.5	1.067	0.044	22.1	4.0
Front side	10M_QPSK 25RB_0	20525/836.5	1:1	0.063	0.03	0.08	23.23	23.5	1.064	0.032	22.1	4.0
Back side	10M_QPSK 1RB_25	20525/836.5	1:1	0.247	0.129	0.12	24.22	24.5	1.067	0.138	22.1	4.0
Back side	10M_QPSK 25RB_0	20525/836.5	1:1	0.221	0.103	0.04	23.23	23.5	1.064	0.110	22.1	4.0
Left side	10M_QPSK 1RB_25	20525/836.5	1:1	0.097	0.045	0.02	24.22	24.5	1.067	0.048	22.1	4.0
Left side	10M_QPSK 25RB_0	20525/836.5	1:1	0.091	0.042	0.03	23.23	23.5	1.064	0.045	22.1	4.0
Right side	10M_QPSK 1RB_25	20525/836.5	1:1	0.069	0.035	-0.12	24.22	24.5	1.067	0.037	22.1	4.0
Right side	10M_QPSK 25RB_0	20525/836.5	1:1	0.057	0.026	0.09	23.23	23.5	1.064	0.028	22.1	4.0
Top side	10M_QPSK 1RB_25	20525/836.5	1:1	0	0	0	24.22	24.5	1.067	0.000	22.1	4.0
Top side	10M_QPSK 25RB_0	20525/836.5	1:1	0	0	0	23.23	23.5	1.064	0.000	22.1	4.0
Bottom side	10M_QPSK 1RB_25	20525/836.5	1:1	0.159	0.071	-0.14	24.22	24.5	1.067	0.076	22.1	4.0
Bottom side	10M_QPSK 25RB_0	20525/836.5	1:1	0.112	0.057	0.04	23.23	23.5	1.064	0.061	22.1	4.0
			Extrem	ity Test da	ata With S	IM2(0mm))					
Back side	10M_QPSK 1RB_25	20525/836.5	1:1	0.205	0.098	0.07	24.22	24.5	1.067	0.105	22.1	4.0
		Han	dheld Ba	ck Test da	ita at the v	vorst case	(0mm)					
Handheld Back	10M_QPSK 1RB_25	20525/836.5	1:1	0.195	0.087	0.13	24.22	24.5	1.067	0.093	22.1	4.0

Table 19: SAR Result of LTE Band 5 Note:

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



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8.3.7 SAR Result Of LTE Band 12

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Condu cted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
			Extre	mity Test	data With	SIM1(0mr	n)					
Front side	10M_QPSK 1RB_25	23060/704	1:1	0.089	0.041	0.16	23.4	24	1.148	0.047	22.1	4.0
Front side	10M_QPSK 25RB_13	23060/704	1:1	0.067	0.033	0.05	22.33	23	1.167	0.039	22.1	4.0
Back side	10M_QPSK 1RB_25	23060/704	1:1	0.253	0.137	0.07	23.4	24	1.148	0.157	22.1	4.0
Back side	10M_QPSK 25RB_13	23060/704	1:1	0.212	0.105	0.03	22.33	23	1.167	0.123	22.1	4.0
Left side	10M_QPSK 1RB_25	23060/704	1:1	0.112	0.063	0.04	23.4	24	1.148	0.072	22.1	4.0
Left side	10M_QPSK 25RB_13	23060/704	1:1	0.1	0.049	0.08	22.33	23	1.167	0.057	22.1	4.0
Right side	10M_QPSK 1RB_25	23060/704	1:1	0.103	0.048	-0.12	23.4	24	1.148	0.055	22.1	4.0
Right side	10M_QPSK 25RB_13	23060/704	1:1	0.089	0.04	0.08	22.33	23	1.167	0.047	22.1	4.0
Top side	10M_QPSK 1RB_25	23060/704	1:1	0	0	0	23.4	24	1.148	0.000	22.1	4.0
Top side	10M_QPSK 25RB_13	23060/704	1:1	0	0	0	22.33	23	1.167	0.000	22.1	4.0
Bottom side	10M_QPSK 1RB_25	23060/704	1:1	0.286	0.123	-0.13	23.4	24	1.148	0.141	22.1	4.0
Bottom side	10M_QPSK 25RB_13	23060/704	1:1	0.251	0.107	0.06	22.33	23	1.167	0.125	22.1	4.0
			Extre	mity Test	data With	SIM2(0mr	n)					
Back side	10M_QPSK 1RB_25	23060/704	1:1	0.232	0.115	0.04	23.4	24	1.148	0.132	22.1	4.0
		На	andheld B	ack Test	data at the	worst cas	se(0mm)					
Handheld Back	10M_QPSK 1RB_25	23060/704	1:1	0.317	0.129	0.18	23.4	24	1.148	0.148	22.1	4.0

Table 20: SAR Result of LTE Band 12 Note:

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



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8.3.8 SAR Result Of LTE Band 13

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Condu cted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
			Extrem	nity Test d	ata With S	IM1(0mm)					
Front side	10M_QPSK 1RB_25	23230/782	1:1	0.091	0.046	0.08	23.49	24	1.125	0.052	22.1	4.0
Front side	10M_QPSK 25RB_13	23230/782	1:1	0.079	0.041	0.03	22.34	23	1.164	0.048	22.1	4.0
Back side	10M_QPSK 1RB_25	23230/782	1:1	0.204	0.113	-0.04	23.49	24	1.125	0.127	22.1	4.0
Back side	10M_QPSK 25RB_13	23230/782	1:1	0.189	0.096	0.05	22.34	23	1.164	0.112	22.1	4.0
Left side	10M_QPSK 1RB_25	23230/782	1:1	0.112	0.058	0.04	23.49	24	1.125	0.065	22.1	4.0
Left side	10M_QPSK 25RB_13	23230/782	1:1	0.096	0.045	0.08	22.34	23	1.164	0.052	22.1	4.0
Right side	10M_QPSK 1RB_25	23230/782	1:1	0.095	0.047	0.09	23.49	24	1.125	0.053	22.1	4.0
Right side	10M_QPSK 25RB_13	23230/782	1:1	0.077	0.038	-0.12	22.34	23	1.164	0.044	22.1	4.0
Top side	10M_QPSK 1RB_25	23230/782	1:1	0	0	0	23.49	24	1.125	0.000	22.1	4.0
Top side	10M_QPSK 25RB_13	23230/782	1:1	0	0	0	22.34	23	1.164	0.000	22.1	4.0
Bottom side	10M_QPSK 1RB_25	23230/782	1:1	0.157	0.074	-0.03	23.49	24	1.125	0.083	22.1	4.0
Bottom side	10M_QPSK 25RB_13	23230/782	1:1	0.133	0.066	0.04	22.34	23	1.164	0.077	22.1	4.0
			Extrem	nity Test d	ata With S	IM2(0mm)					
Back side	10M_QPSK 1RB_25	23230/782	1:1	0.188	0.093	0.05	23.49	24	1.125	0.105	22.1	4.0
		Har	idheld Ba	ck Test da	ata at the v	worst case	e(0mm)					
Handheld Back	10M_QPSK 1RB_25	23230/782	1:1	0.231	0.098	0.15	23.49	24	1.125	0.110	22.1	4.0

Table 21: SAR Result of LTE Band 13 Note:

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



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8.3.9 SAR Result Of LTE Band 17

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Condu cted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
			Extrer	nity Test o	lata With S	SIM1(0mm	n)					
Front side	10M_QPSK 1RB_25	23790/710	1:1	0.114	0.058	0.15	23.32	23.5	1.042	0.060	22.1	4.0
Front side	10M_QPSK 25RB_0	23790/710	1:1	0.091	0.045	0.04	22.34	22.5	1.038	0.047	22.1	4.0
Back side	10M_QPSK 1RB_25	23790/710	1:1	0.255	0.138	0.08	23.32	23.5	1.042	0.144	22.1	4.0
Back side	10M_QPSK 25RB_0	23790/710	1:1	0.221	0.115	0.03	22.34	22.5	1.038	0.119	22.1	4.0
Left side	10M_QPSK 1RB_25	23790/710	1:1	0.065	0.033	0.08	23.32	23.5	1.042	0.034	22.1	4.0
Left side	10M_QPSK 25RB_0	23790/710	1:1	0.049	0.025	0.09	22.34	22.5	1.038	0.026	22.1	4.0
Right side	10M_QPSK 1RB_25	23790/710	1:1	0.058	0.029	0.04	23.32	23.5	1.042	0.030	22.1	4.0
Right side	10M_QPSK 25RB_0	23790/710	1:1	0.047	0.022	0.08	22.34	22.5	1.038	0.023	22.1	4.0
Top side	10M_QPSK 1RB_25	23790/710	1:1	0	0	0	23.32	23.5	1.042	0.000	22.1	4.0
Top side	10M_QPSK 25RB_0	23790/710	1:1	0	0	0	22.34	22.5	1.038	0.000	22.1	4.0
Bottom side	10M_QPSK 1RB_25	23790/710	1:1	0.246	0.111	0.06	23.32	23.5	1.042	0.116	22.1	4.0
Bottom side	10M_QPSK 25RB_0	23790/710	1:1	0.212	0.098	0.08	22.34	22.5	1.038	0.102	22.1	4.0
			Extrer	nity Test o	lata With S	SIM2(0mm	n)					
Back side	10M_QPSK 1RB_25	23790/710	1:1	0.215	0.103	-0.13	23.32	23.5	1.042	0.107	22.1	4.0
		Hai	ndheld Ba	ack Test d	ata at the	worst cas	e(0mm)					·
Handheld Back	10M_QPSK 1RB_25	23790/710	1:1	0.311	0.127	0.02	23.32	23.5	1.042	0.132	22.1	4.0

Table 22: SAR Result of LTE Band 17 Note:

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



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8.3.10SAR Result Of 2.4GHz Wi-Fi

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)	Condu cted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
					Extremity	Test data	(0mm)						
Front side	802.11b	1/2412	99.52%	1.005	0.005	0.002	0.06	16.01	16.50	1.119	0.002	22.0	4.0
Back side	802.11b	1/2412	99.52%	1.005	0.256	0.136	-0.02	16.01	16.50	1.119	0.153	22.0	4.0
Left side	802.11b	1/2412	99.52%	1.005	0.225	0.106	0.12	16.01	16.50	1.119	0.119	22.0	4.0
Right side	802.11b	1/2412	99.52%	1.005	0.398	0.192	-0.01	16.01	16.50	1.119	0.216	22.0	4.0
Top side	802.11b	1/2412	99.52%	1.005	0.000	0.000	0.09	16.01	16.50	1.119	0.000	22.0	4.0
Bottom side	802.11b	1/2412	99.52%	1.005	1.070	0.412	-0.02	16.01	16.50	1.119	0.464	22.0	4.0
			F	landheld B	ack Test	data at the	worst cas	se(0mm)					
Handheld Back	802.11b	1/2412	99.52%	1.005	0.736	0.280	0.09	16.01	16.50	1.119	0.315	22.0	4.0

Table 23: SAR Result Of 2.4GHz Wi-Fi 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 ≤ 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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8.3.11 SAR Result Of 5GHz Wi-Fi

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)	Condu cted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
Front side	000 110	26/5100	06.07	1.032	Extremity		a U-NII-1	14.5	15	1 100	0.000	22.2	4.0
	802.11a	36/5180	96.87		0.212	0.085	0.02	14.5	15	1.122	0.098		4.0
Back side	802.11a	36/5180	96.87	1.032	0.515	0.162	0.02	14.5	15	1.122	0.188	22.2	4.0
Left side	802.11a	36/5180	96.87	1.032	0.062	0.022	-0.07	14.5	15	1.122	0.025	22.2	4.0
Right side	802.11a	36/5180	96.87	1.032	0.102	0.035	0.12	14.5	15	1.122	0.041	22.2	4.0
Bottom side	802.11a	36/5180	96.87	1.032	1.25	0.329	-0.05	14.5	15	1.122	0.381	22.2	4.0
_	I			Handheld				i '	1	I	I	I	Γ
Handheld Back	802.11a	36/5180	96.87	1.032	1.06	0.301	0.07	14.5	15	1.122	0.349	22.2	4.0
								l				1	l
Front side	802.11a	64/5320	96.87	1.032	0.206	0.081	0.13	13.89	14	1.026	0.086	22.2	4.0
Back side	802.11a	64/5320	96.87	1.032	0.622	0.178	0.07	13.89	14	1.026	0.188	22.2	4.0
Left side	802.11a	64/5320	96.87	1.032	0.045	0.019	-0.15	13.89	14	1.026	0.020	22.2	4.0
Right side	802.11a	64/5320	96.87	1.032	0.098	0.03	0.05	13.89	14	1.026	0.032	22.2	4.0
Bottom side	802.11a	64/5320	96.87	1.032	1.21	0.318	-0.02	13.89	14	1.026	0.337	22.2	4.0
	Γ		1	Handheld	Back Tes	t data at th	ne worst c	ase(0mm)	ı	ı	Γ	1	T
Handheld Back	802.11a	64/5320	96.87	1.032	0.94	0.296	0.05	13.89	14	1.026	0.313	22.2	4.0
					Extremity		U-NII-2C					I	
Front side	802.11a	140/5700	96.87	1.032	0.235	0.089	0.14	14.76	15	1.057	0.097	22.2	4.0
Back side	802.11a	140/5700	96.87	1.032	0.552	0.172	0.06	14.76	15	1.057	0.188	22.2	4.0
Left side	802.11a	140/5700	96.87	1.032	0.062	0.024	0.05	14.76	15	1.057	0.026	22.2	4.0
Right side	802.11a	140/5700	96.87	1.032	0.091	0.029	0.11	14.76	15	1.057	0.032	22.2	4.0
Bottom side	802.11a	140/5700	96.87	1.032	2.06	0.594	0.09	14.76	15	1.057	0.648	22.2	4.0
	I			Handheld	Back Tes	t data at th	ne worst c	ase(0mm)	ı	I	I	ı	Τ
Handheld Back	802.11a	140/5700	96.87	1.032	1.57	0.426	0.17	14.76	15	1.057	0.465	22.2	4.0
	T		1		Extremity	/ Test data	a U-NII-3	ı	ı	T	T	ı	T
Front side	802.11a	149/5745	96.87	1.032	0.226	0.085	-0.15	14.12	15	1.225	0.107	22.2	4.0
Back side	802.11a	149/5745	96.87	1.032	0.654	0.18	0.02	14.12	15	1.225	0.227	22.2	4.0
Left side	802.11a	149/5745	96.87	1.032	0.068	0.024	0.12	14.12	15	1.225	0.030	22.2	4.0
Right side	802.11a	149/5745	96.87	1.032	0.102	0.033	-0.08	14.12	15	1.225	0.042	22.2	4.0
Bottom side	802.11a	149/5745	96.87	1.032	2.01	0.576	-0.02	14.12	15	1.225	0.728	22.2	4.0
	ı			Handheld	Back Tes	t data at th	ne worst c	ase(0mm)	ı	ı	ı		1
Handheld Back	802.11a	149/5745	96.87	1.032	0.882	0.342	0.02	14.12	15	1.225	0.432	22.2	4.0

Table 24: SAR Result Of 5GHz Wi-Fi Note:

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



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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.



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8.4 Multiple Transmitter Evaluation

8.4.1 Simultaneous SAR SAR test evaluation

Simultaneous Transmission

NO.	Simultaneous Transmission Configuration	Extremity
1	WCDMA(Data) + Wi-Fi	Yes
2	WCDMA(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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8.4.2 Estimated SAR

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

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

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

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

Estimated SAR Result

Freq. Band	Frequency (MHz)	Test Position	Test Separation (mm)	max. power(dBm)	Estimated 10g SAR (W/kg)
Bluetooth	2480	Extremity	0	9.5	0.150



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1) Simultaneous Transmission SAR Summation Scenario for Extremity

WWAN Band	Exposure position	①MAX. WWAN SAR(W/kg)	②MAX. WLAN 2.4GHz SAR(W/kg)	③MAX. WLAN 5GHz SAR(W/kg)	④MAX. BT SAR(W/kg)	Summed SAR ①+②	Summed SAR ①+③	Summed SAR ①+④	Case NO.
	Front	0.044	0.002	0.107	0.150	0.046	0.151	0.194	No
	Back	0.669	0.315	0.465	0.150	0.984	1.134	0.819	No
WCDMA	Left	0.122	0.119	0.030	0.150	0.241	0.152	0.272	No
Band II	Right	0.068	0.216	0.042	0.150	0.284	0.110	0.218	No
	Тор	0.000	0.000	0.000	0.150	0.000	0.000	0.150	No
	Bottom	0.531	0.464	0.728	0.150	0.995	1.259	0.681	No
	Front	0.055	0.002	0.107	0.150	0.057	0.162	0.205	No
	Back	0.417	0.315	0.465	0.150	0.732	0.882	0.567	No
WCDMA	Left	0.080	0.119	0.030	0.150	0.199	0.110	0.230	No
Band IV	Right	0.069	0.216	0.042	0.150	0.285	0.111	0.219	No
	Тор	0.000	0.000	0.000	0.150	0.000	0.000	0.150	No
	Bottom	0.253	0.464	0.728	0.150	0.717	0.981	0.403	No
	Front	0.030	0.002	0.107	0.150	0.032	0.137	0.180	No
	Back	0.154	0.315	0.465	0.150	0.469	0.619	0.304	No
WCDMA	Left	0.066	0.119	0.030	0.150	0.185	0.096	0.216	No
Band V	Right	0.050	0.216	0.042	0.150	0.266	0.092	0.200	No
	Тор	0.000	0.000	0.000	0.150	0.000	0.000	0.150	No
	Bottom	0.077	0.464	0.728	0.150	0.541	0.805	0.227	No
	Front	0.072	0.002	0.107	0.150	0.074	0.179	0.222	No
	Back	0.552	0.315	0.465	0.150	0.867	1.017	0.702	No
LTE	Left	0.098	0.119	0.030	0.150	0.217	0.128	0.248	No
Band 2	Right	0.075	0.216	0.042	0.150	0.291	0.117	0.225	No
	Тор	0.000	0.000	0.000	0.150	0.000	0.000	0.150	No
	Bottom	0.529	0.464	0.728	0.150	0.993	1.257	0.679	No
	Front	0.046	0.002	0.107	0.150	0.048	0.153	0.196	No
	Back	0.398	0.315	0.465	0.150	0.713	0.863	0.548	No
LTE	Left	0.068	0.119	0.030	0.150	0.187	0.098	0.218	No
Band 4	Right	0.051	0.216	0.042	0.150	0.267	0.093	0.201	No
	Тор	0.000	0.000	0.000	0.150	0.000	0.000	0.150	No
	Bottom	0.302	0.464	0.728	0.150	0.766	1.030	0.452	No
		1	1		1				



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	Front	0.044	0.002	0.107	0.150	0.046	0.151	0.194	No
	Back	0.138	0.315	0.465	0.150	0.453	0.603	0.288	No
LTE	Left	0.048	0.119	0.030	0.150	0.167	0.078	0.198	No
Band 5	Right	0.037	0.216	0.042	0.150	0.253	0.079	0.187	No
	Тор	0.000	0.000	0.000	0.150	0.000	0.000	0.150	No
	Bottom	0.076	0.464	0.728	0.150	0.540	0.804	0.226	No
	Front	0.047	0.002	0.107	0.150	0.049	0.154	0.197	No
	Back	0.157	0.315	0.465	0.150	0.472	0.622	0.307	No
LTE	Left	0.072	0.119	0.030	0.150	0.191	0.102	0.222	No
Band 12	Right	0.055	0.216	0.042	0.150	0.271	0.097	0.205	No
	Тор	0.000	0.000	0.000	0.150	0.000	0.000	0.150	No
	Bottom	0.141	0.464	0.728	0.150	0.605	0.869	0.291	No
	Front	0.052	0.002	0.107	0.150	0.054	0.159	0.202	No
	Back	0.127	0.315	0.465	0.150	0.442	0.592	0.277	No
LTE	Left	0.065	0.119	0.030	0.150	0.184	0.095	0.215	No
Band 13	Right	0.053	0.216	0.042	0.150	0.269	0.095	0.203	No
	Тор	0.000	0.000	0.000	0.150	0.000	0.000	0.150	No
	Bottom	0.083	0.464	0.728	0.150	0.547	0.811	0.233	No
	Front	0.060	0.002	0.107	0.150	0.062	0.167	0.210	No
	Back	0.144	0.315	0.465	0.150	0.459	0.609	0.294	No
LTE	Left	0.034	0.119	0.030	0.150	0.153	0.064	0.184	No
Band 17	Right	0.030	0.216	0.042	0.150	0.246	0.072	0.180	No
	Тор	0.000	0.000	0.000	0.150	0.000	0.000	0.150	No
	Bottom	0.116	0.464	0.728	0.150	0.580	0.844	0.266	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
\boxtimes	PC	HP	Core(rm)3.16G	CZCO48171H	N/A	N/A
\boxtimes	Signal Generator	Agilent	N5182A	MY50142015	2020/09/25	2021/09/24
\boxtimes	S-Parameter Network Analyzer	Agilent	E5071B	MY42301382	2021/02/01	2022/01/31
\boxtimes	DAK-3.5 probe	SPEAG	DAK-3.5	1102	N/A	N/A
\boxtimes	Power meter	Anritsu	ML2495A	1445010	2021/04/15	2022/04/14
\boxtimes	Power sensor	Anritsu	MA2411B	1339220	2021/04/15	2022/04/14
\boxtimes	Wireless Communication Test Set	R&S	CMU200	109525	2020/10/19	2021/10/18
\boxtimes	universal Radio communication tester	R&S	CMW500	159275	2020/10/19	2021/10/18
\boxtimes	DAE	SPEAG	DAE4	913	2021/04/21	2022/04/20
\boxtimes	E-field PROBE	SPEAG	EX3DV4	3753	2020/06/25	2021/06/24
\boxtimes	Dipole	SPEAG	D750V3	1188	2019/03/07	2022/03/06
\boxtimes	Dipole	SPEAG	D835V2	4d114	2019/06/11	2022/06/10
\boxtimes	Dipole	SPEAG	D1800V2	2d170	2019/06/11	2022/06/10
\boxtimes	Dipole	SPEAG	D1900V2	5d136	2019/06/11	2022/06/10
\boxtimes	Dipole	SPEAG	D2450V2	817	2019/06/10	2022/06/09
\boxtimes	Dipole	SPEAG	D5GHzV2	1095	2019/06/14	2022/06/13
\boxtimes	Electro Thermometer	DTM	DTM3000	3030	2020/10/24	2021/10/23
\boxtimes	Amplifier	Mini-circuits	ZVE-8G	110405	N/A	N/A
\boxtimes	Amplifier	Mini-circuits	ZHL-42	QA1331003	N/A	N/A
\boxtimes	3db ATTENUATOR	MINI	MCL BW-S3W5	0533	N/A	N/A
\boxtimes	DUMMY PROBE	SPEAG	DP_2	SPDP2001AA	N/A	N/A
\boxtimes	Dual Directional Coupler	Woken	20W couple	DOM2BHW1A1	N/A	N/A
	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: 2021/06/02

Test Laboratory: Compliance Certification Services Inc.

System Performance Check-Head 750MHz

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1188

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1 Medium parameters used: f = 750 MHz; σ = 0.888 S/m; ϵ_r = 40.956; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.83, 9.83, 9.83); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

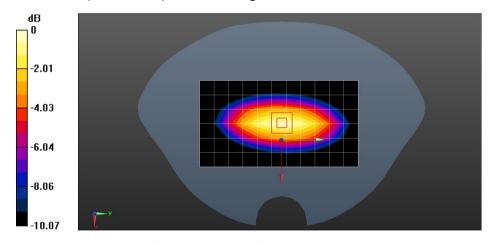
Electronics: DAE4 Sn913; Calibrated: 2021/04/21

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 = 59.16 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 3.30 W/kg
SAR(1 g) = 2.05 W/kg; SAR(10 g) = 1.35 W/kg
Maximum value of SAR (measured) = 2.84 W/kg



0 dB = 2.84 W/kg = 4.53 dBW/kg



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Date: 2021/06/03

Test Laboratory: Compliance Certification Services Inc.

System Performance Check-Head 835MHz

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

Communication System: UID 0, CW; Frequency: 835 MHz;Duty Cycle: 1:1 Medium parameters used: f = 835 MHz; σ = 0.886 S/m; ϵ_r = 40.849; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.44, 9.44, 9.44); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

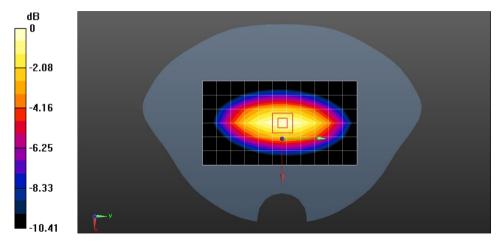
Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

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) = 2.28 W/kg

System Performance Check at Frequencies Low 1 GHz/d=15mm, Pin=250 mW, díst=3.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm Reference Value = 52.22 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 2.71 W/kg SAR(1 g) = 2.33 W/kg; SAR(10 g) = 1.51 W/kg Maximum value of SAR (measured) = 2.90 W/kg



0 dB = 2.90 W/kg = 4.62 dBW/kg



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Date: 2021/06/04

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 = 1.36 S/m; ϵ_r = 38.821; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(8.25, 8.25, 8.25); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

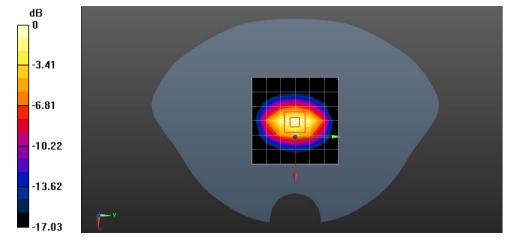
Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

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=3.0mm (EX-Probe) (23.6 dBm)/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 13.2 W/kg

System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (EX-Probe) (23.6 dBm)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 99.69 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 17.5 W/kg SAR(1 g) = 9.36 W/kg; SAR(10 g) = 4.99 W/kg Maximum value of SAR (measured) = 13.5 W/kg



0 dB = 13.5 W/kq = 11.30 dBW/kq



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Date: 2021/06/07

Test Laboratory: Compliance Certification Services Inc.

System Performance Check-Head 1900MHz

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

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1900 MHz; σ = 1.372 S/m; ϵ_r = 40.64; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(7.92, 7.92, 7.92); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

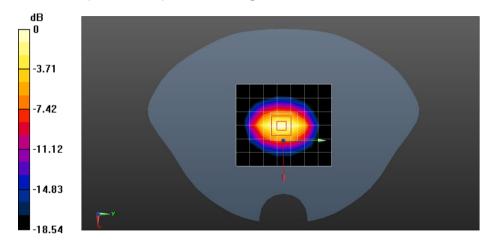
Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

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 = 103.5 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 18.6 W/kg SAR(1 g) = 9.89 W/kg; SAR(10 g) = 5.11 W/kg Maximum value of SAR (measured) = 14.2 W/kg



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



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Date: 2021/06/08

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; $\sigma = 1.786$ S/m; $\epsilon_r = 39.621$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(7.12, 7.12, 7.12); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

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

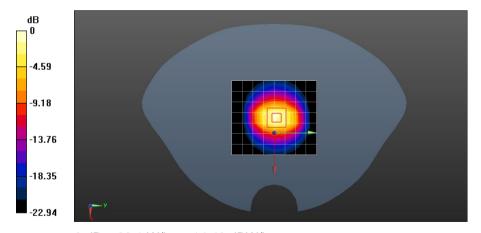
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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) = 22.1 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 = 130.1 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 37.9 W/kg SAR(1 g) = 12.7 W/kg; SAR(10 g) = 5.8 W/kg Maximum value of SAR (measured) = 28.1 W/kg



0 dB = 28.1 W/kg = 14.49 dBW/kg



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Date: 2021/06/09

Test Laboratory: Compliance Certification Services Inc.

System Performance Check-Head 5250MHz

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: 1095

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5250 MHz; σ = 4.606 S/m; ϵ_r = 35.152; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(4.65, 4.65, 4.65); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

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

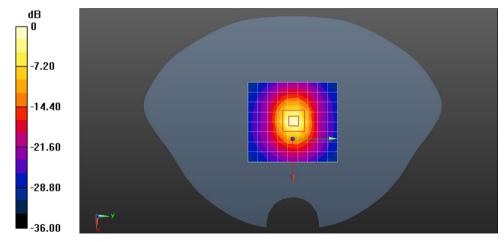
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5250 MHz/Area Scan (9x10x1): Measurement grid: dx=10mm, dv=10mm

Maximum value of SAR (measured) = 15.7 W/kg

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5250 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm

(8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 72.25 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 31.9 W/kg SAR(1 g) = 7.71 W/kg; SAR(10 g) = 2.23 W/kg Maximum value of SAR (measured) = 18.8 W/kg



0 dB = 18.8 W/kg = 12.74 dBW/kg



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Date: 2021/06/09

Test Laboratory: Compliance Certification Services Inc.

System Performance Check-Head 5600MHz

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: 1095

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5600 MHz; σ = 4.939 S/m; ϵ_r = 34.547; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(4.56, 4.56, 4.56); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

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

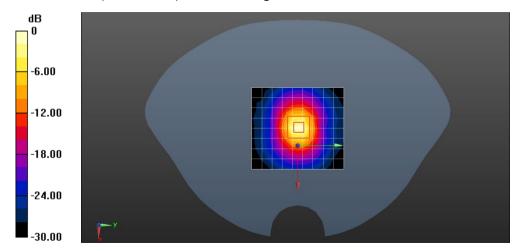
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5600 MHz/Area Scan (9x10x1): Measurement grid: dx=10mm, dv=10mm

Maximum value of SAR (measured) = 17.4 W/kg

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5600 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm

(8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 72.57 V/m; Power Drift = 0.10 dB Peak SAR (extrapolated) = 34.9 W/kg SAR(1 g) = 7.91 W/kg; SAR(10 g) = 2.33 W/kg Maximum value of SAR (measured) = 19.7 W/kg



0 dB = 19.7 W/kg = 12.94 dBW/kg



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Date: 2021/06/10

Test Laboratory: Compliance Certification Services Inc.

System Performance Check-Head 5750MHz

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: 1095

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5750 MHz; σ = 5.032 S/m; ϵ_r = 34.024; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(4.61, 4.61, 4.61); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

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

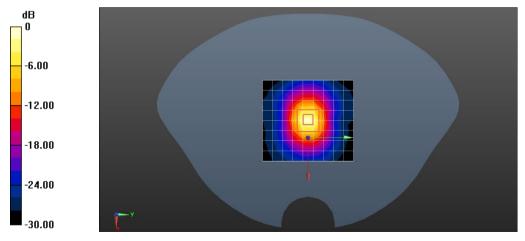
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5750 MHz/Area Scan (9x10x1): Measurement grid: dx=10mm, dv=10mm

Maximum value of SAR (measured) = 15.3 W/kg

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5750 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm

(8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 70.35 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 33.3 W/kg SAR(1 g) = 7.82 W/kg; SAR(10 g) = 2.29 W/kg Maximum value of SAR (measured) = 18.5 W/kg



0 dB = 18.5 W/kg = 12.67 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: 2021/06/07

Test Laboratory: Compliance Certification Services Inc.

WCDMA Band II RMC12.2Kbps Bottom side 0mm Ch9400

DUT: Mobile Payment Terminal; Type: A800

Communication System: UID 0, WCDMA / UMTS (0); Frequency: 1880 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; $\sigma = 1.36$ S/m; $\epsilon_r = 40.732$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(7.92, 7.92, 7.92); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

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

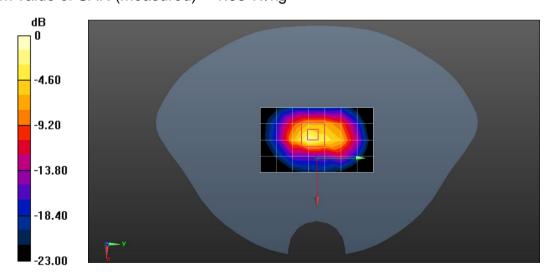
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.47 W/kg

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

dy=8mm, dz=5mm

Reference Value = 32.96 V/m; Power Drift = 0.15 dB Peak SAR (extrapolated) = 2.39 W/kg SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.478 W/kg Maximum value of SAR (measured) = 1.93 W/kg



0 dB = 1.93 W/kg = 2.86 dBW/kg



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Report No.: KSEM210500081101

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Date: 2021/06/07

Test Laboratory: Compliance Certification Services Inc.

WCDMA Band II RMC Handheld Back 0mm Ch9400

DUT: Mobile Payment Terminal; Type: A800

Communication System: UID 0, WCDMA / UMTS (0); Frequency: 1880 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; σ = 1.36 S/m; ϵ_r = 40.732; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(7.92, 7.92, 7.92); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

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

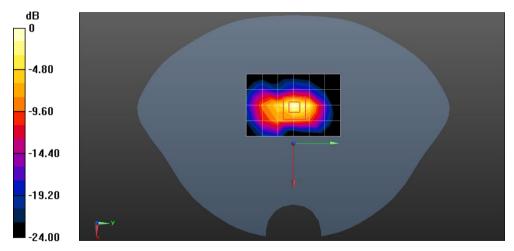
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 2.53 W/kg

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

dy=8mm, dz=5mm

Reference Value = 9.946 V/m; Power Drift = 0.49 dB Peak SAR (extrapolated) = 3.27 W/kg SAR(1 g) = 1.42 W/kg; SAR(10 g) = 0.602 W/kg Maximum value of SAR (measured) = 2.63 W/kg



0 dB = 2.63 W/kg = 4.20 dBW/kg



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Date: 2021/06/04

Test Laboratory: Compliance Certification Services Inc.

WCDMA Band IV RMC12.2Kbps Back side 0mm Ch1513

DUT: Mobile Payment Terminal; Type: A800

Communication System: UID 0, WCDMA / UMTS (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1 Medium parameters used: f=1753 MHz; $\sigma=1.315$ S/m; $\epsilon_r=39.011$; $\rho=1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(8.25, 8.25, 8.25); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

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)

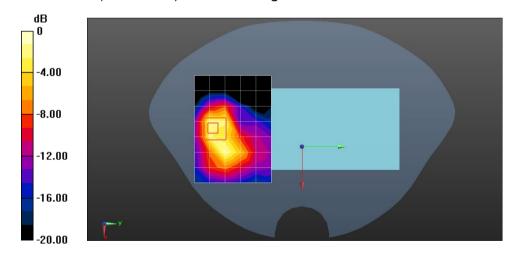
Configuration/Body/Area Scan (8x6x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.574 W/kg

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

dy=8mm, dz=5mm

Reference Value = 3.735 V/m; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 0.928 W/kg SAR(1 g) = 0.545 W/kg; SAR(10 g) = 0.236 W/kg Maximum value of SAR (measured) = 0.734 W/kg



0 dB = 0.734 W/kg = -1.34 dBW/kg



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Date: 2021/06/04

Test Laboratory: Compliance Certification Services Inc.

WCDMA Band IV RMC Handheld Back 0mm Ch1513

DUT: Mobile Payment Terminal; Type: A800

Communication System: UID 0, WCDMA / UMTS (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1753 MHz; σ = 1.315 S/m; ϵ_r = 39.011; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(8.25, 8.25, 8.25); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

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

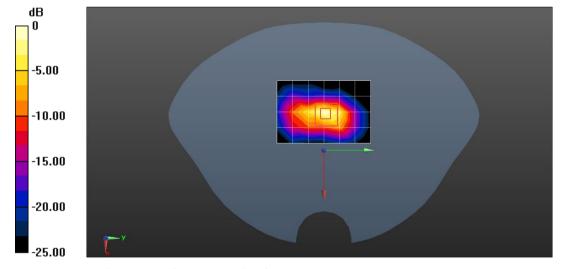
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.76 W/kg

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

dy=8mm, dz=5mm

Reference Value = 8.644 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 2.30 W/kg SAR(1 g) = 0.931 W/kg; SAR(10 g) = 0.389 W/kg Maximum value of SAR (measured) = 1.89 W/kg



0 dB = 1.89 W/kg = 2.76 dBW/kg



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Date: 2021/06/03

Test Laboratory: Compliance Certification Services Inc.

WCDMA Band V RMC12.2Kbps Back side 0mm Ch4132

DUT: Mobile Payment Terminal; Type: A800

Communication System: UID 0, WCDMA / UMTS (0); Frequency: 826.4 MHz;Duty Cycle: 1:1 Medium parameters used: f = 826.4 MHz; σ = 0.88 S/m; ϵ_r = 40.905; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.44, 9.44, 9.44); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

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

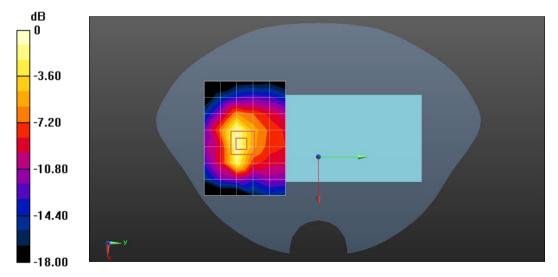
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (8x6x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.366 W/kg

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

dv=8mm, dz=5mm

Reference Value = 4.605 V/m; Power Drift = -0.06 dB Peak SAR (extrapolated) = 0.511 W/kg SAR(1 g) = 0.263 W/kg; SAR(10 g) = 0.138 W/kg Maximum value of SAR (measured) = 0.419 W/kg



0 dB = 0.419 W/kg = -3.78 dBW/kg



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Date: 2021/06/07

Test Laboratory: Compliance Certification Services Inc.

LTE Band 2 20M QPSK 1RB50 Bottom side 0mm Ch18900

DUT: Mobile Payment Terminal; Type: A800

Communication System: UID 0, FDD_LTE (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; σ = 1.36 S/m; ϵ_r = 40.732; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(7.92, 7.92, 7.92); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

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)

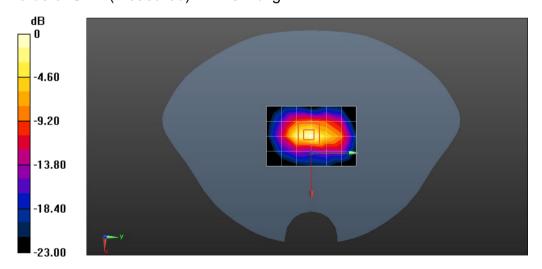
Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 2.05 W/kg

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

dy=8mm, dz=5mm

Reference Value = 40.42 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.58 W/kg SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.498 W/kg Maximum value of SAR (measured) = 2.13 W/kg



0 dB = 2.13 W/kg = 3.28 dBW/kg



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Date: 2021/06/07

Test Laboratory: Compliance Certification Services Inc.

LTE Band 2 20M QPSK 1RB50 Handheld Back 0mm Ch18900

DUT: Mobile Payment Terminal; Type: A800

Communication System: UID 0, FDD_LTE (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; σ = 1.36 S/m; ϵ_r = 40.732; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(7.92, 7.92, 7.92); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

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)

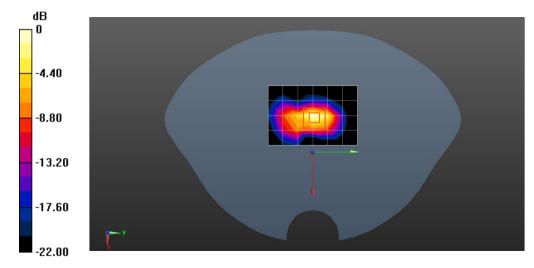
Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 2.14 W/kg

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

dy=8mm, dz=5mm

Reference Value = 9.431 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 2.82 W/kg SAR(1 g) = 1.22 W/kg; SAR(10 g) = 0.520 W/kg Maximum value of SAR (measured) = 2.25 W/kg



0 dB = 2.25 W/kg = 3.52 dBW/kg



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Date: 2021/06/04

Test Laboratory: Compliance Certification Services Inc.

LTE Band 4 20M QPSK 1RB50 Bottom side 0mm Ch20175

DUT: Mobile Payment Terminal; Type: A800

Communication System: UID 0, FDD_LTE (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1732.5 MHz; σ = 1.299 S/m; ϵ_r = 39.115; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(8.25, 8.25, 8.25); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

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)

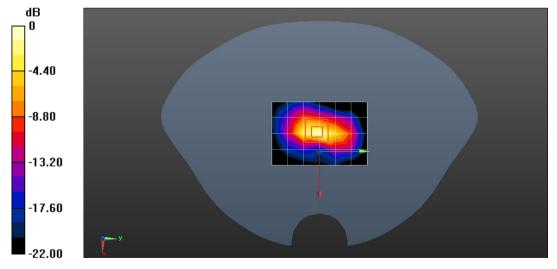
Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.17 W/kg

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

dy=8mm, dz=5mm

Reference Value = 31.30 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.49 W/kg SAR(1 g) = 0.672 W/kg; SAR(10 g) = 0.288 W/kg Maximum value of SAR (measured) = 1.25 W/kg



0 dB = 1.25 W/kg = 0.97 dBW/kg



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Date: 2021/06/04

Test Laboratory: Compliance Certification Services Inc.

LTE Band 4 20M QPSK 1RB50 Handheld Back 0mm Ch20175

DUT: Mobile Payment Terminal; Type: A800

Communication System: UID 0, FDD_LTE (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1732.5 MHz; $\sigma = 1.299$ S/m; $\epsilon_r = 39.115$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(8.25, 8.25, 8.25); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

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

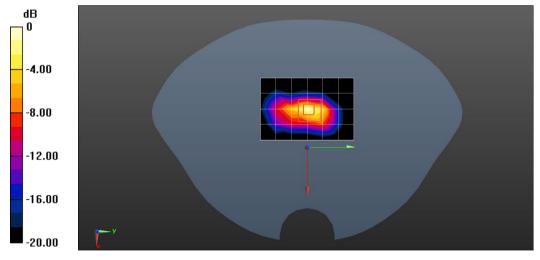
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.69 W/kg

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

dy=8mm, dz=5mm

Reference Value = 8.388 V/m; Power Drift = 0.13 dB Peak SAR (extrapolated) = 2.20 W/kg SAR(1 g) = 0.913 W/kg; SAR(10 g) = 0.380 W/kg Maximum value of SAR (measured) = 1.81 W/kg



0 dB = 1.81 W/kg = 2.58 dBW/kg



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Date: 2021/06/03

Test Laboratory: Compliance Certification Services Inc.

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

DUT: Mobile Payment Terminal; Type: A800

Communication System: UID 0, FDD_LTE (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used: f = 836.5 MHz; σ = 0.887 S/m; ϵ_r = 40.84; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.44, 9.44, 9.44); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

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)

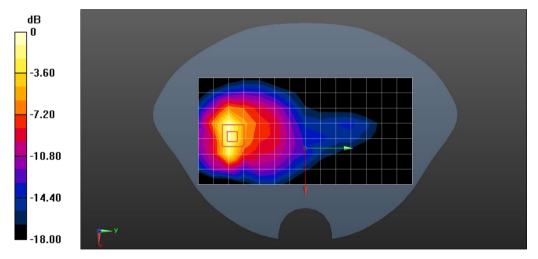
Configuration/Body/Area Scan (8x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.362 W/kg

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

dy=8mm, dz=5mm

Reference Value = 4.455 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.481 W/kg SAR(1 g) = 0.247 W/kg; SAR(10 g) = 0.129 W/kg Maximum value of SAR (measured) = 0.400 W/kg



0 dB = 0.400 W/kg = -3.98 dBW/kg



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Date: 2021/06/02

Test Laboratory: Compliance Certification Services Inc.

LTE Band 12 10M QPSK 1RB25 Back side 0mm Ch23060

DUT: Mobile Payment Terminal; Type: A800

Communication System: UID 0, FDD_LTE (0); Frequency: 704 MHz;Duty Cycle: 1:1 Medium parameters used: f = 704 MHz; σ = 0.865 S/m; ϵ_r = 41.564; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.83, 9.83, 9.83); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

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

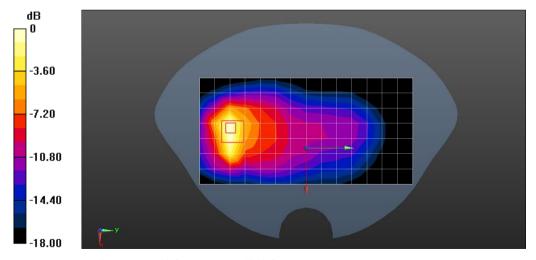
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (8x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.421 W/kg

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

dy=8mm, dz=5mm

Reference Value = 6.932 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.584 W/kg SAR(1 g) = 0.253 W/kg; SAR(10 g) = 0.137 W/kg Maximum value of SAR (measured) = 0.401 W/kg



0 dB = 0.401 W/kg = -3.97 dBW/kg



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Date: 2021/06/02

Test Laboratory: Compliance Certification Services Inc.

LTE Band 13 10M QPSK 1RB25 Back side 0mm Ch23230

DUT: Mobile Payment Terminal; Type: A800

Communication System: UID 0, FDD_LTE (0); Frequency: 782 MHz;Duty Cycle: 1:1 Medium parameters used: f = 782 MHz; σ = 0.879 S/m; ϵ_r = 40.443; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.83, 9.83, 9.83); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

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)

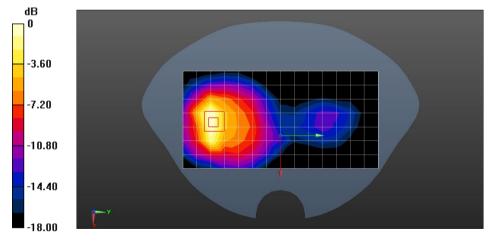
Configuration/Body/Area Scan (8x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.324 W/kg

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

dy=8mm, dz=5mm

Reference Value = 3.534 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.412 W/kg SAR(1 g) = 0.204 W/kg; SAR(10 g) = 0.113 W/kg Maximum value of SAR (measured) = 0.305 W/kg



0 dB = 0.305 W/kg = -5.16 dBW/kg



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Date: 2021/06/02

Test Laboratory: Compliance Certification Services Inc.

LTE Band 17 10M QPSK 1RB25 Back side 0mm Ch23790

DUT: Mobile Payment Terminal; Type: A800

Communication System: UID 0, FDD_LTE (0); Frequency: 710 MHz;Duty Cycle: 1:1 Medium parameters used: f = 710 MHz; σ = 0.873 S/m; ϵ_r = 41.516; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.83, 9.83, 9.83); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

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

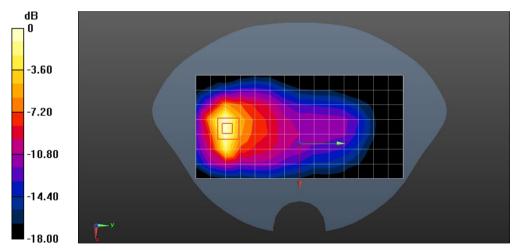
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (8x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.414 W/kg

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

dy=8mm, dz=5mm

Reference Value = 6.604 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 0.586 W/kg SAR(1 g) = 0.255 W/kg; SAR(10 g) = 0.138 W/kg Maximum value of SAR (measured) = 0.406 W/kg



0 dB = 0.406 W/kg = -3.91 dBW/kg



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Date: 2021/06/08

Test Laboratory: Compliance Certification Services Inc.

WLAN2.4GHz 802.11b 1Mbps Bottom side 0mm Ch1

DUT: Mobile Payment Terminal; Type: A800

Communication System: UID 0, WiFi (0); Frequency: 2412 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2412 MHz; σ = 1.752 S/m; ϵ_r = 39.781; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(7.12, 7.12, 7.12); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

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)

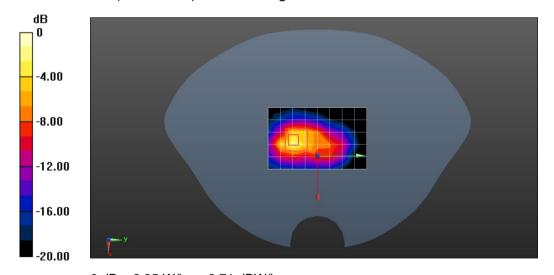
Configuration/Body/Area Scan (6x9x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 1.64 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 18.18 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.46 W/kg SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.412 W/kg Maximum value of SAR (measured) = 2.35 W/kg



0 dB = 2.35 W/kg = 3.71 dBW/kg



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Date: 2021/06/09

Test Laboratory: Compliance Certification Services Inc.

WLAN5GHz 802.11a 6Mbps Bottom side 0mm Ch36

DUT: Mobile Payment Terminal; Type: A800

Communication System: UID 0, WiFi (0); Frequency: 5180 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5180 MHz; σ = 4.569 S/m; ϵ_r = 34.875; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(4.65, 4.65, 4.65); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

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)

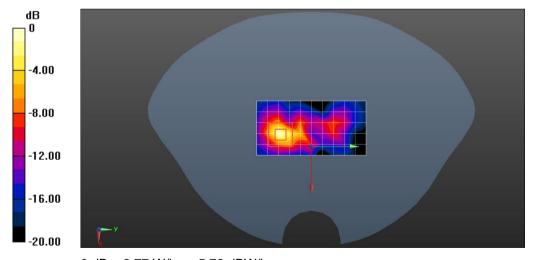
Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 3.77 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm,

dv=4mm, dz=1.4mm

Reference Value = 8.995 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 6.98 W/kg SAR(1 g) = 1.25 W/kg; SAR(10 g) = 0.329 W/kg



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



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Date: 2021/06/09

Test Laboratory: Compliance Certification Services Inc.

WLAN5GHz 802.11a 6Mbps Bottom side 0mm Ch64

DUT: Mobile Payment Terminal; Type: A800

Communication System: UID 0, WiFi (0); Frequency: 5320 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5320 MHz; σ = 4.741 S/m; ϵ_r = 34.939; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(4.65, 4.65, 4.65); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

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

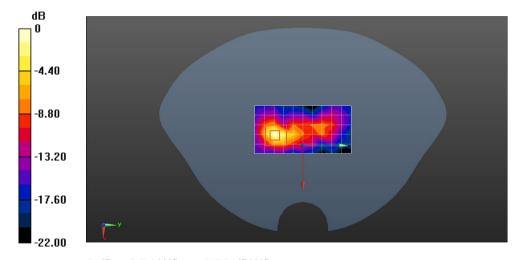
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 3.88 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm,

dv=4mm, dz=1.4mm

Reference Value = 11.49 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 7.10 W/kg SAR(1 g) = 1.21 W/kg; SAR(10 g) = 0.318 W/kg Maximum value of SAR (measured) = 3.74 W/kg



0 dB = 3.74 W/kg = 5.73 dBW/kg



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Date: 2021/06/09

Test Laboratory: Compliance Certification Services Inc.

WLAN5GHz 802.11a 6Mbps Bottom side 0mm Ch140

DUT: Mobile Payment Terminal; Type: A800

Communication System: UID 0, WiFi (0); Frequency: 5700 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5700 MHz; σ = 5.068 S/m; ϵ_r = 34.538; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(4.61, 4.61, 4.61); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

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)

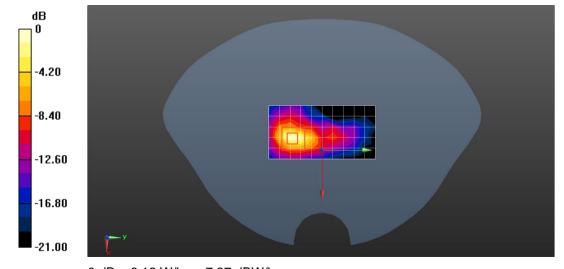
Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 6.42 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm,

dv=4mm, dz=1.4mm

Reference Value = 10.55 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 12.8 W/kg SAR(1 g) = 2.06 W/kg; SAR(10 g) = 0.594 W/kg Maximum value of SAR (measured) = 6.12 W/kg



0 dB = 6.12 W/kg = 7.87 dBW/kg



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Date: 2021/06/10

Test Laboratory: Compliance Certification Services Inc.

WLAN5GHz 802.11a 6Mbps Bottom side 0mm Ch149

DUT: Mobile Payment Terminal; Type: A800

Communication System: UID 0, WiFi (0); Frequency: 5745 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5745 MHz; σ = 5.018 S/m; ϵ_r = 34.082; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(4.61, 4.61, 4.61); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

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

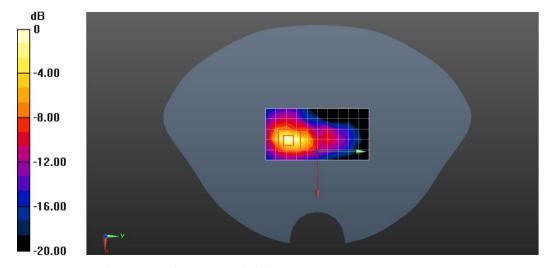
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 6.50 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm,

dv=4mm, dz=1.4mm

Reference Value = 10.68 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 12.9 W/kg SAR(1 g) = 2.01 W/kg; SAR(10 g) = 0.576 W/kg Maximum value of SAR (measured) = 6.04 W/kg



0 dB = 6.04 W/kg = 7.81 dBW/kg



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Appendix C: Calibration certificate

Appendix D: Photographs

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