

Report No.: KSCR230400061801

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SAR TEST REPORT

KSCR2304000618AT Application No.: Applicant: MOTOCADDY LTD.

Units 15-18, Stansted Distribution Centre, Great Hallingbury, **Address of Applicant:**

Hertfordshire CM22 7DG United Kingdom

TED GOLF EQUIPMENT CO., LTD Manufacturer:

No. 65-17 Xinggang Road, Zhonglou Districr, Changzhou, Jiangsu, China Address of Manufacturer:

TED GOLF EQUIPMENT CO., LTD **Factory:**

No. 65-17 Xinggang Road, Zhonglou Districr, Changzhou, Jiangsu, China Address of Factory:

Product Name: Golf Trolley M7 GPS Model No.(EUT):

Trade Mark: MOTOCADDY FCC ID: 2AMH4M7GPS

FCC 47CFR §2.1093 Standard(s):

Date of Receipt: 2023-04-10

Date of Test: 2023-05-11 to 2023-05-15

Date of Issue: 2023-05-26

Pass* **Test Result:**

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

Fra fin

Eric Lin **EMC Laboratory Manager**



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REVISION HISTORY

Revision Record			
Version	Description	Date	Remark
00	Original	2023-05-26	/

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



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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)		
Frequency Band	Body 1-g	Extremity 10-g	
GSM850	0.40	0.32	
GSM1900	0.87	0.81	
WCDMA Band II	0.99	0.88	
WCDMA Band IV	0.58	0.62	
WCDMA Band V	1.07	0.83	
LTE Band 2	0.92	0.86	
LTE Band 4	0.66	0.71	
LTE Band 5	0.45	0.35	
LTE Band 7	1.04	0.84	
LTE Band 12	0.24	0.19	
LTE Band 13	0.28	0.23	
LTE Band 25	1.01	0.89	
LTE Band 26	0.38	0.30	
WIFI 2.4GHz*	0.03	0.01	
BT*	< 0.01	< 0.01	
WIFI 5GHz*	0.03	0.01	
BLE*	< 0.01	<0.01	
Sum.	1.10	0.90	
SAR Limited(W/kg)	1.6	4.0	

Note: "*" is Estimated SAR



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1 General Information

1.1 General Description of EUT

Product Phase:	Production unit		
Device Type:	Portable device		
Exposure Category:	Uncontrolled environ	ment / general population	
SN:	MCM7G231810406	-	
Firmware version:	Release_QFIL_AL_1	.42.6_1.1.57	
Antenna Gain:	E-GSM850: 0.4dBi (Provided by manufacturer) DCS1900: 2.3dBi (Provided by manufacturer) WCDMA BAND II: 2.3dBi (Provided by manufacturer) WCDMA BAND IV: 2.3dBi (Provided by manufacturer) WCDMA BAND V: 0.4dBi (Provided by manufacturer) LTE BAND2: 2.3dBi (Provided by manufacturer) LTE BAND4: 2.3dBi (Provided by manufacturer) LTE BAND5: 0.4dBi (Provided by manufacturer) LTE BAND7: 2.0dBi (Provided by manufacturer) LTE BAND12: 0.4dBi (Provided by manufacturer) LTE BAND13: 0.4dBi (Provided by manufacturer) LTE BAND25: 2.3dBi (Provided by manufacturer) LTE BAND26: 0.4dBi (Provided by manufacturer) 2.4G WIFI/BT Antenna Gain: 2.2dBi (Provided by manufacturer) SG WIFI Antenna Gain: -1.05dBi (Provided by manufacturer)		
Antenna Type:	WWAN/WLAN/BT: F BLE: PCB Antenna	PC Antenna	
Device Operating Configurations:	BLL: 1 OB / Interina		
Modulation Mode:	GSM: GMSK, 8PSK WCDMA: QPSK, 16QAM LTE: QPSK, 16QAM WIFI: DSSS, OFDM BT: GFSK, π/4DQPSK, 8DPSK BLE: GFSK		
	4,tested with power le	evel 5(GSM850)	
	1,tested with power le	, ,	
	tested with power cor	ntrol "all 1"(WCDMA Band I	I/IV/V)
	tested with power cor	ntrol Max Power(LTE Band	2/4/5/7/12/13/25/26)
	Band	Tx (MHz)	Rx (MHz)
	GSM850	824-849	869-894
	GSM1900	1850-1910	1930-1990
Frequency Bands:	WCDMA Band II	1850-1910	1930-1990
-	WCDMA Band IV	1710-1755	2110- 2155
	WCDMA Band V	824-849	869-894
	LTE Band 2	1850-1910	1930-1990



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	LTE Band 4	1710-1755	2110- 2155
	LTE Band 5	824-849	869-894
	LTE Band 7	2500-2570	2620- 2690
	LTE Band 12	699-716	729-746
	LTE Band 13	777-787	746-756
	LTE Band 25	1850-1915	1930-1995
	LTE Band 26	814-849	859-894
	WIFI2.4G	2412-2462	2412-2462
	Bluetooth	2402-2480	2402-2480
	WIFI(U-NII-1)	5150~5250	5150~5250
	WIFI(U-NII-2A)	5250~5350	5250~5350
	WIFI(U-NII-2C)	5470~5725	5470~5725
	WIFI(U-NII-3)	5725~5850	5725~5850
	Model:	N/A	
	Normal Voltage:	28.8V	
Battery Information:	Rated capacity:	11Ah, 316.8Wh	
	Battery Type:	Lithium-ion battery	
	Manufacturer:	Shandong Goldencell Electronics Technology Co., Ltd.	



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1.1.1 DUT Antenna Locations

Please see the Appendix D



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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 – 1992	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 447498 D04	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
KDB 248227 D01 v02r02	SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS
KDB 941225 D01 v03r01	3G SAR Measurement Procedures
KDB 941225 D05 v02r05	SAR EVALUATION CONSIDERATIONS FOR LTE DEVICES
KDB 941225 D06 v02r01	SAR EVALUATION PROCEDURES FOR PORTABLE DEVICES WITH WIRELESS ROUTER CAPABILITIES



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1.3 RF exposure limits

Human Evnagura	Uncontrolled Environment	Controlled Environment
Human Exposure	General Population	Occupational
Spatial Peak SAR*	1.60 \\///.~	9 00 14///2
(Brain*Trunk)	1.60 W/kg	8.00 W/kg
Spatial Average SAR**	0.09.\\///.~	0.40 W/kg
(Whole Body)	0.08 W/kg	
Spatial Peak SAR***	4.00 \\\/\\	20.00 W/ka
(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

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

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

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1.SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequen cy, highest internal frequency, antenna gain, cable loss, etc.) is provided by the applicant. (if applic able).

2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on re sults of the data provided by applicant. (if applicable).

1.5 Test Facility

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

A2LA

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

• FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

ISED

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

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



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2 Laboratory Environment

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



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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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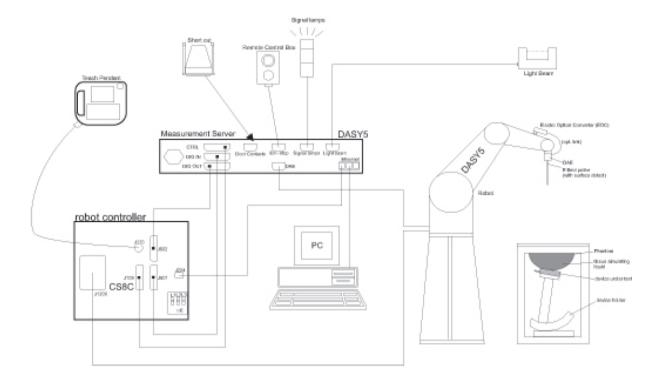
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F-1. SAR Measurement System Configuration

- 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.

3.2 Isotropic E-field Probe EX3DV4



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	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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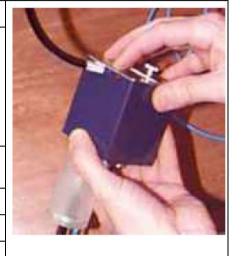


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3.3 Data Acquisition Electronics (DAE)

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

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

Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max. \pm 5 %



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



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3.7.2 Data Storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DAE3". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.7.3 Data Evaluation by SEMCAD

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

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

Conversion factor ConvFiDiode compression point Dcpi

Device parameters: - Frequency

- Crest factor cf

Media parameters: - Conductivity

- Density p

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

ε

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)



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cf = crest factor of exciting field (DASY parameter) dcp i = diode compression point (DASY parameter)

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

E-field probes:

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

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 =

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 ≥ 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 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 D04 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.

Based on the PAG results, we evaluated Extreme SAR and Body SAR, as only the WWAN main antenna transmits signals, we only evaluated the main antenna.



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

HSL5GHz is composed of the following ingredients:

Water: 50-65%

Mineral oil: 10-30%

Emulsifiers: 8-25%

Sodium salt: 0-1.5%

MSL5GHz is composed of the following ingredients:

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



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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)	Er	σ (S/m)	Er	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 SPEAG DAK3.5 dielectric probe kit in conjunction with Agilent Network Analyzer. 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±2°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	0.88	41.66	0.89	41.90	-1.69	-0.58	±5	22.0	2023/5/11
835 Head	835	0.91	42.04	0.90	41.50	1.00	1.30	±5	22.0	2023/5/12
1800 Head	1800	1.38	40.26	1.40	40.00	-1.14	0.65	±5	22.2	2023/5/13
1900 Head	1900	1.39	40.28	1.40	40.00	-0.79	0.71	±5	22.1	2023/5/14
2600 Head	2600	1.97	37.74	1.96	39.00	0.46	-3.24	±5	22.0	2023/5/15



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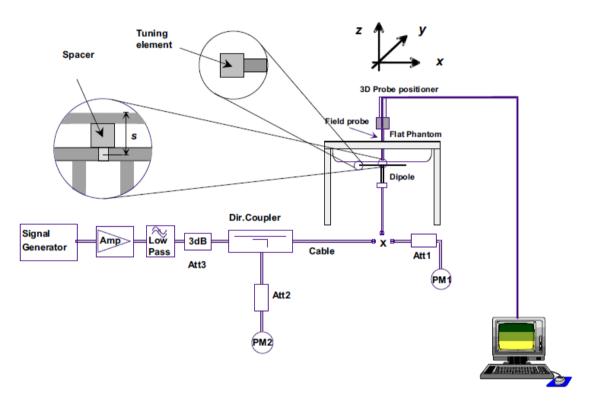


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6.2 SAR System Check

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



F-3. the microwave circuit arrangement used for SAR system verification



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6.2.1 Justification for Extended SAR Dipole Calibrations

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



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6.2.2 Summary System Check Result(s)

Validation Kit		Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1w)	Measured SAR (normalized to 1w)	Target SAR (normalized to 1w) (±10%)	Target SAR (normalized to 1w) (±10%)	Liquid Temp. (°C)	Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D750V2	Head	2.04	1.39	8.16	5.56	8.27 (7.44~9.10)	5.48 (4.93~6.03)	22.0	2023/5/11
D835V2	Head	2.43	1.52	9.72	6.08	9.40 (8.46~10.34)	6.12 (5.51~6.73)	22.0	2023/5/12
D1800V2	Head	9.71	5.3	38.84	21.2	38.9 (35.01~42.79)	20.4 (18.36~22.44)	22.2	2023/5/13
D1900V2	Head	9.99	5.38	39.96	21.52	40.0 (36.00~44.00)	20.3 (18.72~22.88)	22.1	2023/5/14
D2600V2	Head	14.7	6.52	58.8	26.08	54.8 (49.32~60.28)	24.5 (22.05~26.95)	22.0	2023/5/15

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) . Body SAR

SAR for body configurations is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreaing code or DPDCHn, for the highest reported 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 ≤ ¼ dB higher



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than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA

a) HSDPA

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



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

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

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

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

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

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

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



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

b) HSUPA

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



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Sub -test₽	βοσ	βd€	β _d (SF) _e	β₀∕β₄₽	β _{hs} (1)€	βec↔	$eta_{ ext{ed}^{arphi}}$	β _e « (SF)+	βed↔ (code)↔	CM(2)+ (dB)+2	MP R↓ (dB)↓	AG(4)+/ Inde x+/	E- TFC I
1₽	11/15(3)43	15/15(3)	64₽	11/15(3)43	22/15₽	209/22 5↔	1039/225₽	4 0	1₽	1.04	0.0₽	20₽	75₽
2₽	6/15₽	15/15₄	64₽	6/15₽	12/15₽	12/15	94/75₽	4₽	1₽	3.0∉	2.0₽	12 ₀	67₽
3₽	15/150	9/15₽	64₽	15/9₽	30/15₽	30/15₽	β _{ed1} :47/1 5 ₄ β _{ed2:47/1} 5 ₄	4₽	2₽	2.0₽	1.0₽	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)	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 $A_{hs} = \beta_{hs}/\beta_e = 30/15$ $\beta_{hs} = 30/15 * \beta_{e}$

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

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

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

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

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

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	1.4592
2	2	4	10	4	14484	1.4592
3	2	4	10	4	14484	1.4592
4	2	8	2	2	5772	2.9185
4	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6	4	8	10	2SF2&2SF	11484	5.76
(No DPDCH)	4	4	2	4	20000	2.00
7	4	8	2	2SF2&2SF	22996	?
(No DPDCH)	4	4	10	4	20000	?

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



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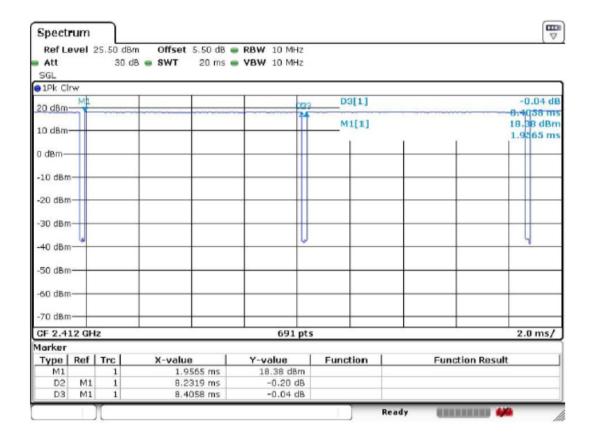
7.2.2 Wi-Fi Test Configuration

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:

WI-FI 802.11b: Duty cycle= 97.93%





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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:

- 1) .When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other (remaining) test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band. SAR is also not required for that exposure configuration in the subsequent test configuration(s).
- 2) . When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-q 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

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SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency



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band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

- 1) . When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration. SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
- 2) . When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.
- 3) The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.
 - a) SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.
 - 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:
 - replace "subsequent test configuration" with "next subsequent test configuration" (i.e., subsequent next highest specified maximum output power configuration)
 - 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

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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:



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1) . When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.

2) When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

• 2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements

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

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

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.
- 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

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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



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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.

OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

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

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

• SAR Test Requirements for OFDM configurations

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



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7.2.3 LTE Test Configuration

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

A) Spectrum Plots for RB Configurations

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

B) MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 V13.5.0 (201609) Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

Modulation	Cha	Channel bandwidth / Transmission bandwidth (N _{RB})							
	1.4	1.4 3.0 5 10 15 20							
	MHz	MHz	MHz	MHz	MHz	MHz			
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1		
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1		
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2		

C) A-MPR

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

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

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

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 1) and 2) are ≤ 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.



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4) Higher order modulations

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

E) Other channel bandwidth standalone SAR test requirements

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



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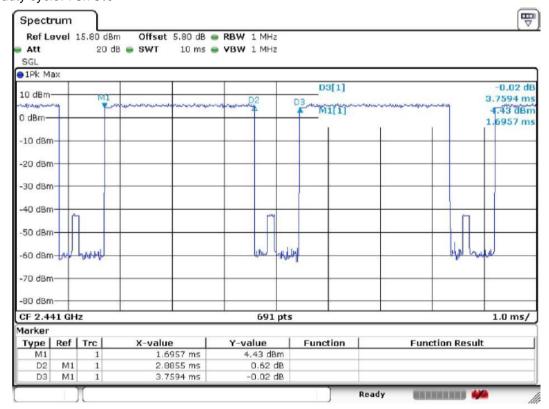
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7.2.4 BluetoothTest Configuration

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.

7.2.4.1 Duty cycle

Bluetooth duty cycle: 76.75%





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8 Test Result

8.1 Measurement of RF Conducted Power

8.1.1 Conducted Power Of GSM850

Е	Burst Output P	ower(dBi	m)		Tune up Division Factors		Frame-Ave	Tune up		
Chann	el	128	190	251			128	190	251	rune up
	1 TX Slot	32.53	32.64	32.65	33.00	-9.03	23.5	23.61	23.62	23.97
GPRS/EGPRS	2 TX Slots	32.41	32.52	32.56	33.00	-6.02	26.39	26.5	26.54	26.98
(GMSK)	3 TX Slots	30.96	31.05	31.12	31.50	-4.26	26.7	26.79	26.86	27.24
	4 TX Slots	29.58	29.71	29.80	30.00	-3.01	26.57	26.7	26.79	26.99
	1 TX Slot	26.84	26.87	26.92	27.00	-9.03	17.81	17.84	17.89	17.97
EGPRS(8PSK)	2 TX Slots	26.76	26.75	26.87	27.00	-6.02	20.74	20.73	20.85	20.98
EGPRS(OPSR)	3 TX Slots	26.65	26.65	26.78	27.00	-4.26	22.39	22.39	22.52	22.74
	4 TX Slots	26.54	26.57	26.68	27.00	-3.01	23.53	23.56	23.67	23.99

GSM1800

Е	Burst Output Power(dBm)				Tuno un Division Fostoro		Frame-Ave	Frame-Average Output Power(dBm)			
Chann	el	512	661 810 Tune up Division Facto		Division Factors	512	661	810	Tune up		
	1 TX Slot	29.99	30.43	30.40	30.50	-9.03	20.96	21.4	21.37	21.47	
GPRS/EGPRS	2 TX Slots	29.92	30.30	30.30	30.50	-6.02	23.9	24.28	24.28	24.48	
(GMSK) 3 TX S	3 TX Slots	29.81	30.21	30.22	30.50	-4.26	25.55	25.95	25.96	26.24	
	4 TX Slots	29.69	30.11	30.14	30.50	-3.01	26.68	27.1	27.13	27.49	
	1 TX Slot	26.08	26.15	26.37	26.50	-9.03	17.05	17.12	17.34	17.47	
EGPRS(8PSK)	2 TX Slots	25.94	26.05	26.27	26.50	-6.02	19.92	20.03	20.25	20.48	
EGFK3(0F3K)	3 TX Slots	25.80	25.93	26.14	26.50	-4.26	21.54	21.67	21.88	22.24	
	4 TX Slots	25.70	25.78	26.00	26.50	-3.01	22.69	22.77	22.99	23.49	

Note:

1) For SAR the time based average power is relevant. The difference in between depends on the duty cycle of the TDMA signal:

No. of timeslots	1	2	3	4
Duty Cycle	1:8.3	1:4.15	1:2.77	1:2.075
Time based avg. power compared to slotted avg. power	-9.03	-6.02	-4.26	-3.01

2) The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots.



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8.1.2 Conducted Power Of WCDMA II

	А	verage Conducted Po	ower(dBm)		
	Channel	9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	23.52	23.54	23.54	24.00
	Subtest 1	22.18	22.39	22.40	23.00
HSDPA	Subtest 2	22.31	22.53	22.39	23.00
ПОДРА	Subtest 3	21.81	22.04	21.92	22.50
	Subtest 4	21.81	22.04	21.91	22.50
	Subtest 1	22.33	22.32	22.37	22.50
	Subtest 2	20.89	21.03	21.22	21.50
HSUPA	Subtest 3	20.91	21.03	21.03	21.50
	Subtest 4	21.23	21.61	21.31	22.00
	Subtest 5	22.30	22.49	22.45	23.00

Conducted Power Of WCDMA IV

Average Conducted Power(dBm)											
	Channel	1312	1412	1513	Tune up						
WCDMA	12.2kbps RMC	23.76	23.65	23.61	24.00						
	Subtest 1	22.54	22.50	22.43	23.00						
HSDPA	Subtest 2	22.54	22.59	22.49	23.00						
HODPA	Subtest 3	22.04	22.10	22.01	22.50						
	Subtest 4	22.03	22.10	22.00	22.50						
	Subtest 1	22.48	22.57	22.36	23.00						
	Subtest 2	21.03	21.39	21.05	21.50						
HSUPA	Subtest 3	21.12	21.22	21.05	21.50						
	Subtest 4	21.58	21.49	21.35	22.00						
	Subtest 5	22.61	22.57	22.40	23.00						

Conducted Power Of WCDMA V

Solidacied i C	ower OI WCDIMA V				
		Average Conducted P	ower(dBm)		
	Channel	4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	23.61	23.55	23.65	24.00
	Subtest 1	22.47	22.49	22.57	23.00
LICDDA	Subtest 2	22.38	22.58	22.65	23.00
HSDPA	Subtest 3	22.06	22.09	22.16	22.50
	Subtest 4	22.03	22.07	22.15	22.50
	Subtest 1	22.19	22.29	22.30	22.50
	Subtest 2	20.92	20.93	21.08	21.50
HSUPA	Subtest 3	20.99	20.92	20.96	21.50
	Subtest 4	21.58	21.29	21.36	22.00
	Subtest 5	22.40	22.40	22.36	23.00



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8.1.3 Conducted Power Of LTE

	LTE Band 2				Conduc	ted Power(dBm)	
Dan desidab	Modulation	RB size	RB offset	Channel	Channel	Channel	T
Bandwidth				18607	18900	19193	Tune up
		1	0	22.72	23.02	22.74	24.00
		1	2	22.94	23.07	22.80	24.00
		1	5	22.92	22.90	22.65	24.00
	QPSK	3	0	22.89	23.17	22.85	24.00
		3	2	22.79	23.15	22.95	24.00
1.4MHz		3	3	22.82	23.12	22.92	24.00
		6	0	22.02	22.19	21.83	23.00
		1	0	21.81	22.47	21.94	23.00
		1	2	22.00	22.44	21.92	23.00
		1	5	21.94	22.14	21.81	23.00
	16QAM	3	0	21.91	22.14	22.15	23.00
		3	2	22.32	22.12	21.88	23.00
		3	3	22.02	21.93	22.07	23.00
		6	0	20.90	20.76	20.68	22.00
Danish dalah	Modulation	RB size	RB offset	Channel	Channel	Channel	т
Bandwidth				18615	18900	19185	Tune up
	QPSK	1	0	22.92	23.19	23.05	24.00
		1	7	23.13	23.36	23.05	24.00
		1	14	23.04	23.09	22.85	24.00
		8	0	21.99	22.01	21.88	23.00
		8	4	22.03	22.01	21.87	23.00
		8	7	22.01	22.04	21.76	23.00
0.00		15	0	21.98	22.04	21.88	23.00
3MHz		1	0	22.15	22.17	22.06	23.00
		1	7	22.19	22.25	21.64	23.00
		1	14	22.34	22.18	21.82	23.00
	16QAM	8	0	20.92	21.21	20.79	22.00
		8	4	20.90	21.20	20.77	22.00
		8	7	21.17	20.95	20.85	22.00
		15	0	21.09	20.78	21.01	22.00
Donalusi altib	Modulation	RB size	RB offset	Channel	Channel	Channel	Т
Bandwidth				18625	18900	19175	Tune up
		1	0	23.26	23.13	23.14	24.00
CMII-	00014	1	13	23.21	23.04	23.12	24.00
5MHz	QPSK	1	24	23.28	23.00	22.89	24.00
		12	0	22.02	22.14	21.96	23.00



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		12	6	22.08	22.16	21.91	23.00
		12	13	22.12	22.10	21.89	23.00
		25	0	22.08	22.14	22.01	23.00
		1	0	22.53	22.46	22.41	23.00
		1	13	22.11	22.35	22.09	23.00
		1	24	22.43	22.30	22.07	23.00
	16QAM	12	0	20.86	21.03	20.93	22.00
		12	6	20.82	21.04	20.89	22.00
		12	13	21.08	20.97	20.87	22.00
		25	0	21.03	21.08	21.09	22.00
	Modulation	RB size	RB offset	Channel	Channel	Channel	
Bandwidth				18650	18900	19150	Tune up
		1	0	23.10	23.34	23.15	24.00
		1	25	23.39	23.23	23.12	24.00
		1	49	23.26	23.25	22.99	24.00
	QPSK	25	0	22.24	22.25	22.18	23.00
		25	13	22.29	22.18	22.12	23.00
		25	25	22.24	22.16	21.98	23.00
40.00		50	0	22.21	22.16	22.03	23.00
10MHz		1	0	22.32	22.68	22.43	23.00
		1	25	22.64	22.55	22.09	23.00
		1	49	21.97	22.38	21.98	23.00
	16QAM	25	0	21.31	21.22	21.23	22.00
		25	13	21.37	21.25	21.28	22.00
		25	25	21.14	21.13	21.14	22.00
		50	0	21.06	21.22	21.09	22.00
Daniel del	Modulation	RB size	RB offset	Channel	Channel	Channel	T
Bandwidth				18675	18900	19125	Tune up
		1	0	23.13	23.54	23.25	24.00
		1	38	23.18	23.08	23.04	24.00
		1	74	23.12	23.29	22.80	24.00
	QPSK	36	0	22.26	22.29	22.15	23.00
		36	18	22.14	22.23	22.12	23.00
		36	39	22.11	22.13	22.04	23.00
15MHz		75	0	22.23	22.24	22.10	23.00
ISIVITZ		1	0	22.14	22.84	22.47	23.00
		1	38	21.94	21.92	22.14	23.00
		1	74	22.12	22.27	22.13	23.00
	16QAM	36	0	21.31	21.26	20.91	22.00
		36	18	21.19	21.18	20.96	22.00
		36	39	21.15	21.20	20.93	22.00
		75	0	21.19	21.20	21.04	22.00



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Donahud déh	Modulation	RB size	RB offset	Channel	Channel	Channel	T
Bandwidth				18700	18900	19100	Tune up
		1	0	23.12	23.32	23.23	24.00
		1	50	23.02	23.20	23.31	24.00
		1	99	23.08	23.18	22.99	24.00
	QPSK	50	0	22.24	22.30	22.22	23.00
		50	25	22.14	22.23	22.12	23.00
		50	50	22.14	22.16	22.06	23.00
20MHz		100	0	22.17	22.24	22.08	23.00
ZUWITZ		1	0	22.57	22.52	22.02	23.00
		1	50	22.42	22.53	21.86	23.00
		1	99	22.43	22.47	21.73	23.00
	16QAM	50	0	21.26	21.26	21.26	22.00
		50	25	21.08	21.21	21.17	22.00
		50	50	21.00	21.12	21.05	22.00
		100	0	21.10	21.18	21.12	22.00

	LTE Band 4			Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
Danuwium	Modulation	KD SIZE	KD Ullset	19957	20175	20393	Turie up	
		1	0	23.28	23.33	22.98	24.50	
		1	2	23.50	23.57	23.08	24.50	
		1	5	23.36	23.27	22.95	24.50	
	QPSK	3	0	23.55	23.33	23.16	24.50	
		3	2	23.78	23.40	23.30	24.50	
1.4MHz		3	3	23.47	23.49	23.34	24.50	
		6	0	22.55	22.37	22.36	23.50	
1.4WITZ		1	0	23.11	22.17	22.14	23.50	
		1	2	23.07	22.22	22.31	23.50	
		1	5	22.95	22.12	22.24		
	16QAM	3	0	22.58	22.15	22.28	23.50	
		3	2	22.82	22.48	22.29	23.50	
		3	3	22.68	22.40	22.29	23.50	
		6	0	21.03	21.15	21.09	22.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun	
bandwidth	Modulation	RD SIZE	KB Ollset	19965	20175	20385	Tune up	
		1	0	23.44	23.30	23.53	24.50	
		1	7	23.51	23.58	23.40	24.50	
3MHz	QPSK	1	14	23.28	23.44	23.33	24.50	
		8	0	22.44	22.39	22.28	23.50	
		8	4	22.43	22.53	22.20	23.50	



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		8	7	22.32	22.46	22.26	23.50
		15	0	22.43	22.40	22.32	23.50
		1	0	22.28	22.67	22.84	23.50
		1	7	22.60	22.24	22.29	23.50
		1	14	22.76	22.66	22.49	23.50
	16QAM	8	0	21.50	21.20	21.37	22.50
		8	4	21.53	21.25	21.34	22.50
		8	7	21.52	21.40	21.28	22.50
		15	0	21.51	21.51	21.43	22.50
			55 "	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	19975	20175	20375	Tune up
		1	0	23.61	23.39	23.48	24.50
		1	13	23.58	23.62	23.43	24.50
		1	24	23.53	23.59	23.29	24.50
	QPSK	12	0	22.44	22.36	22.39	23.50
		12	6	22.35	22.35	22.31	23.50
		12	13	22.27	22.35	22.25	23.50
		25	0	22.39	22.42	22.35	23.50
5MHz		1	0	22.44	22.88	22.34	23.50
		1	13	22.5	22.38	22.17	23.50
		1	24	22.66	22.93	22.49	23.50
	16QAM	12	0	21.4	21.39	21.19	22.50
		12	6	21.15	21.32	21.33	22.50
		12	13	21.16	21.23	21.25	22.50
		25	0	21.44	21.31	21.52	22.50
			55 "	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	20000	20175	20350	Tune up
		1	0	23.57	23.52	23.59	24.50
		1	25	23.49	23.62	23.37	24.50
		1	49	23.26	23.38	23.16	24.50
	QPSK	25	0	22.59	22.37	22.54	23.50
		25	13	22.50	22.35	22.39	23.50
		25	25	22.56	22.44	22.39	23.50
40.00		50	0	22.53	22.45	22.37	23.50
10MHz		1	0	22.95	22.43	22.89	23.50
		1	25	22.26	22.24	22.62	23.50
16QAM		1	49	22.16	22.40	22.15	23.50
	25	0	21.66	21.63	21.62	22.50	
		25	13	21.58	21.41	21.31	22.50
		25	25	21.63	21.40	21.39	22.50
		50	0	21.33	21.30	21.37	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up



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				20025	20175	20325	
		1	0	23.64	23.52	23.43	24.50
		1	38	23.18	23.40	23.33	24.50
		1	74	23.33	23.23	23.25	24.50
	QPSK	36	0	22.65	22.50	22.48	23.50
		36	18	22.48	22.39	22.43	23.50
		36	39	22.40	22.42	22.38	23.50
15MHz		75	0	22.55	22.49	22.41	23.50
TOWINZ		1	0	22.62	23.01	22.46	23.50
		1	38	22.07	22.10	22.11	23.50
		1	74	22.03	22.26	22.27	23.50
	16QAM	36	0	21.53	21.46	21.45	22.50
		36	18	21.48	21.26	21.44	22.50
		36	39	21.32	21.40	21.39	22.50
		75	0	21.43	21.36	21.37	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawidin			KD Ollset	20050	20175	20300	Turie up
		1	0	23.81	23.47	23.60	24.50
		1	50	23.22	23.25	23.41	24.50
		1	99	23.18	23.04	23.21	24.50
	QPSK	50	0	22.59	22.44	22.53	23.50
		50	25	22.22	22.41	22.38	23.50
		50	50	22.32	22.29	22.29	23.50
20MHz		100	0	22.46	22.36	22.43	23.50
ZUWITIZ		1	0	23.26	22.67	22.62	23.50
		1	50	22.64	22.66	22.64	23.50
		1	99	22.28	22.18	22.40	23.50
	16QAM	50	0	21.48	21.40	21.49	22.50
		50	25	21.30	21.27	21.43	22.50
		50	50	21.25	21.25	21.36	22.50
		100	0	21.32	21.40	21.39	22.50

	LTE Band 5					Conducted Power(dBm)			
Danish dalah	Madulation	DD oize	DD "	Channel	Channel	Channel	Tune up		
Bandwidth	Modulation	RB size	RB offset	20407	20525	20643			
		1	0	23.24	22.91	23.15	24.50		
		1	2	23.49	23.17	23.29	24.50		
4 4MU-	QPSK	1	5	23.17	22.96	23.10	24.50		
1.4MHz	QPSK	3	0	23.29	23.00	23.10	24.50		
		3	2	23.38	23.04	23.11	24.50		
		3	3	23.35	23.05	23.09	24.50		



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		6	0	22.35	22.19	22.19	23.50
		1	0	22.17	22.21	22.39	23.50
		1	2	22.70	22.43	22.00	23.50
		1	5	22.59	22.10	21.88	23.50
	16QAM	3	0	22.50	22.05	21.94	23.50
		3	2	22.33	22.13	22.25	23.50
		3	3	22.45	22.16	22.20	23.50
		6	0	20.96	21.03	21.15	22.50
5 1 1 111		55 :	DD " .	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	20415	20525	20635	Tune up
		1	0	23.33	23.35	23.22	24.50
		1	7	23.49	23.26	23.10	24.50
		1	14	23.50	23.38	22.94	24.50
	QPSK	8	0	22.37	22.24	22.23	23.50
		8	4	22.33	22.16	22.14	23.50
		8	7	22.34	22.12	22.14	23.50
3MHz		15	0	22.27	22.20	22.29	23.50
		1	0	22.25	22.74	22.52	23.50
		1	7	22.57	22.30	22.07	23.50
		1	14	22.84	22.44	22.38	23.50
	16QAM	8	0	21.48	21.14	21.15	22.50
		8	4	21.21	20.93	21.19	22.50
		8	7	21.47	21.31	21.07	22.50
		15	0	21.46	21.18	21.02	22.50
Donahuidah	Madulatian	DD +:-+	RB offset	Channel	Channel	Channel	Tune up
Bandwidth	Modulation	RB size	RB offset	20425	20525	20625	Tune up
		1	0	23.20	23.47	23.47	24.50
		1	13	23.28	23.33	23.35	24.50
		1	24	23.06	23.35	23.15	24.50
	QPSK	12	0	22.29	22.15	22.32	23.50
		12	6	22.22	22.17	22.14	23.50
		12	13	22.27	22.06	22.22	23.50
5MHz		25	0	22.35	22.22	22.30	23.50
SIVINZ		1	0	22.23	22.84	22.26	23.50
		1	13	22.09	22.15	22.06	23.50
		1	24	22.05	22.11	21.98	23.50
	16QAM	12	0	21.19	21.17	21.27	22.50
		12	6	21.21	21.15	21.16	22.50
		12	13	21.26	21.02	21.10	22.50
		25	0	21.17	21.23	21.26	22.50
Pandwidth.	Modulation	DD size	DD offeet	Channel	Channel	Channel	Tuna
Bandwidth	Modulation	RB size	RB offset	20450	20525	20600	Tune up



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		1	0	23.43	23.31	23.22	24.50
		1	25	23.21	22.91	23.28	24.50
		1	49	23.04	23.27	22.97	24.50
	QPSK	25	0	22.34	22.23	22.45	23.50
		25	13	22.16	22.19	22.35	23.50
		25	25	22.19	22.27	22.22	23.50
10MHz		50	0	22.37	22.28	22.40	23.50
TOWINZ		1	0	23.26	22.82	22.35	23.50
		1	25	22.54	22.35	22.11	23.50
		1	49	22.00	22.53	21.94	23.50
	16QAM	25	0	21.34	21.26	21.62	22.50
		25	13	21.33	21.22	21.32	22.50
		25	25	21.36	21.24	21.12	22.50
		50	0	21.27	21.22	21.22	22.50

	LTE Band 7			Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
Danuwiutii	Wiodulation	KD SIZE	KD Ollset	20775	21100	21425	Turie up	
		1	0	23.60	23.62	24.08	24.50	
		1	13	23.69	23.82	24.02	24.50	
		1	24	23.52	23.85	23.91	24.50	
	QPSK	12	0	22.68	22.91	22.87	23.50	
		12	6	22.61	22.81	22.89	23.50	
		12	13	22.72	22.74	22.92	23.50	
5MHz		25	0	22.61	22.78	22.88	23.50	
SIVITZ		1	0	23.25	22.78	23.41	23.50	
		1	13	22.92	22.62	23.09	23.50	
		1	24	22.74	22.76	23.40	23.50	
	16QAM	12	0	21.65	21.71	21.80	22.50	
		12	6	21.37	21.79	21.84	22.50	
		12	13	21.49	21.81	21.81	22.50	
		25	0	21.54	21.78	21.95	22.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun	
Dandwidth	Modulation	RD SIZE	KD Ollset	20800	21100	21400	Tune up	
		1	0	23.64	23.87	23.80	24.50	
		1	25	23.69	24.00	23.92	24.50	
		1	49	23.47	23.72	23.67	24.50	
10MHz	QPSK	25	0	22.59	22.85	22.82	23.50	
		25	13	22.61	22.83	22.87	23.50	
		25	25	22.54	22.85	22.96	23.50	
		50	0	22.57	22.89	22.82	23.50	



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		1	0	22.59	23.05	23.25	23.50
		1	25	22.41	23.19	22.88	23.50
		1	49	22.80	22.86	22.96	23.50
	16QAM	25	0	21.44	21.72	21.75	22.50
		25	13	21.65	21.71	21.72	22.50
		25	25	21.50	22.01	21.71	22.50
		50	0	21.60	21.88	21.78	22.50
Don duridth	Madulation	DD oizo	DD offeet	Channel	Channel	Channel	Tungun
Bandwidth	Modulation	RB size	RB offset	20800	21100	21400	Tune up
		1	0	23.88	23.94	23.97	24.00
		1	37	23.54	23.89	23.69	24.00
		1	74	23.67	23.99	23.98	24.00
	QPSK	36	0	22.90	22.92	22.83	23.00
		36	20	22.76	22.79	22.86	23.00
		36	39	22.64	22.96	22.98	23.00
45841-		75	0	22.74	22.86	22.90	23.00
15MHz		1	0	22.91	23.44	23.40	23.00
		1	37	22.46	23.03	22.99	23.00
		1	74	22.69	23.05	23.48	23.00
	16QAM	36	0	21.75	21.86	21.67	22.00
		36	20	21.80	21.66	21.69	22.00
		36	39	21.58	21.73	21.79	22.00
		75	0	21.69	21.84	21.95	22.00
Daniel videlik	Madulatian	DD -:	DD -#+	Channel	Channel	Channel	Tungun
Bandwidth	Modulation	RB size	RB offset	20800	21100	21400	Tune up
		1	0	24.01	23.86	24.08	24.00
		1	49	23.72	23.95	23.85	24.00
		1	99	23.75	23.97	23.99	24.00
	QPSK	50	0	22.87	22.96	22.97	23.00
		50	24	22.66	23.06	22.93	23.00
		50	50	22.67	23.07	23.02	23.00
20MHz		100	0	22.78	23.03	22.89	23.00
ΔυίγίΠ Δ		1	0	22.89	23.36	23.21	23.00
		1	49	22.57	23.38	23.08	23.00
		1	99	22.89	23.29	23.42	23.00
	16QAM	50	0	21.83	22.02	21.87	22.00
		50	24	21.72	21.99	21.79	22.00
		50	50	21.66	22.05	21.90	22.00
		100	0	21.76	21.99	21.96	22.00



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5			55 " .	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	23017	23095	23173	Tune up
		1	0	23.21	23.24	23.28	24.00
		1	2	23.24	23.43	23.24	24.00
		1	5	23.14	23.26	23.25	24.00
	QPSK	3	0	23.32	23.19	23.22	24.00
		3	2	23.44	23.30	23.34	24.00
		3	3	23.32	23.33	23.32	24.00
		6	0	22.35	22.31	22.24	23.00
1.4MHz		1	0	22.41	22.28	22.47	23.00
		1	2	22.72	22.09	22.66	23.00
		1	5	22.57	22.30	22.61	23.00
	16QAM	3	0	22.29	22.36	22.37	23.00
		3	2	22.34	22.40	22.47	23.00
		3	3	22.24	22.46	22.53	23.00
		6	0	21.14	20.87	21.14	22.00
5 1		55	DD " .	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	23025	23095	23165	Tune up
		1	0	23.29	23.31	23.44	24.00
		1	7	23.55	23.37	23.64	24.00
		1	14	23.21	23.48	23.43	24.00
	QPSK	8	0	22.35	22.24	22.30	23.00
		8	4	22.20	22.22	22.38	23.00
		8	7	22.20	22.32	22.37	23.00
28411-		15	0	22.28	22.31	22.25	23.00
3MHz		1	0	22.05	22.39	22.53	23.00
		1	7	22.26	22.48	22.47	23.00
		1	14	22.11	22.69	22.69	23.00
	16QAM	8	0	21.30	21.14	21.21	22.00
		8	4	21.26	20.91	21.25	22.00
		8	7	21.30	21.42	21.17	22.00
		15	0	21.37	21.36	21.40	22.00
Pandwidth	Modulation	DP cizo	DP offeet	Channel	Channel	Channel	Tungun
Bandwidth	Modulation	RB size	RB offset	23035	23095	23155	Tune up
		1	0	23.39	23.14	23.12	24.00
		1	13	23.47	23.32	23.55	24.00
		1	24	23.20	23.16	23.43	24.00
5MHz	QPSK	12	0	22.30	22.16	22.34	23.00
JIVITZ		12	6	22.39	22.29	22.25	23.00
		12	13	22.29	22.36	22.28	23.00
		25	0	22.30	22.31	22.43	23.00
	16QAM	1	0	22.75	22.51	22.78	23.00



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				•			•
		1	13	22.38	22.53	22.48	23.00
		1	24	22.49	22.56	22.13	23.00
		12	0	21.05	21.20	21.02	22.00
		12	6	21.10	21.22	21.03	22.00
		12	13	21.05	20.99	21.10	22.00
		25	0	21.24	21.04	21.29	22.00
5 1 1 11	Marshalladia a	DD -:	DD - (' 1	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size R	RB offset	23060	23095	23130	Tune up
		1	0	22.96	23.26	23.35	24.00
		1	25	23.25	23.64	23.61	24.00
		1	49	23.04	23.40	23.24	24.00
	QPSK	25	0	22.27	22.29	22.39	23.00
		25	13	22.25	22.29	22.39	23.00
		25	25	22.35	22.34	22.28	23.00
408811-		50	0	22.29	22.32	22.47	23.00
10MHz		1	0	22.68	22.56	22.14	23.00
		1	25	22.68	22.72	22.11	23.00
		1	49	22.34	22.54	22.05	23.00
	16QAM	25	0	21.22	21.24	21.59	22.00
		25	13	21.10	21.18	21.64	22.00
		25	25	21.24	21.50	21.43	22.00
		50	0	21.13	21.26	21.42	22.00

	LTE FDD Band	13		Conducted Power(dBm)			
Bandwidth	Modulation	RB size	DD offeet	Channel	Channel	Channel	Tungun
bandwidth		RD SIZE	RB offset	23205	23230	23255	Tune up
		1	0	23.52	23.26	23.06	24.00
		1	13	23.32	23.30	23.55	24.00
		1	24	23.01	23.34	23.12	24.00
	QPSK	12	0	22.21	22.04	22.15	23.00
		12	6	22.16	22.14	22.28	23.00
		12	13	22.12	22.09	22.22	23.00
5MHz		25	0	22.16	22.18	22.16	23.00
SIVITZ		1	0	22.72	22.31	22.69	23.00
		1	13	22.32	21.95	22.48	23.00
		1	24	22.13	22.31	22.41	23.00
	16QAM	12	0	21.04	21.08	20.94	22.00
		12	6	21.14	21.00	21.08	22.00
		12	13	20.98	20.89	21.08	22.00
		25	0	20.95	21.14	21.03	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up



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				NA	23230	NA	
		1	0	NA	23.35	NA	24.00
		1	25	NA	23.10	NA	24.00
		1	49	NA	23.23	NA	24.00
	QPSK	25	0	NA	22.19	NA	23.00
		25	13	NA	22.09	NA	23.00
		25	25	NA	22.17	NA	23.00
10MHz		50	0	NA	22.07	NA	23.00
TOWINZ		1	0	NA	22.66	NA	23.00
		1	25	NA	21.93	NA	23.00
		1	49	NA	22.00	NA	23.00
	16QAM	25	0	NA	21.30	NA	22.00
		25	13	NA	21.28	NA	22.00
		25	25	NA	21.18	NA	22.00
		50	0	NA	21.13	NA	22.00

	LTE Band 25			Conducted Power(dBm)				
Developed to	Madulation	DD -:	DD - (' 1	Channel	Channel	Channel	T	
Bandwidth	Modulation	RB size	RB offset	26047	26340	26683	Tune up	
		1	0	23.09	23.00	22.87	24.00	
		1	8	23.12	23.15	22.90	24.00	
		1	14	22.94	23.02	22.86	24.00	
	QPSK	8	0	23.22	23.15	22.95	24.00	
		8	4	23.20	23.26	23.21	24.00	
		8	7	23.24	23.18	22.98	24.00	
1.4MHz		15	0	22.22	22.18	22.09	23.00	
1.4WITZ		1	0	22.08	22.11	21.95	23.00	
		1	8	22.16	22.68	21.99	23.00	
		1	14	22.37	22.40	21.97	23.00	
	16QAM	8	0	22.23	22.20	22.10	23.00	
		8	4	22.47	22.45	22.08	23.00	
		8	7	22.37	22.36	22.04	23.00	
		15	0	21.05	20.77	21.00	22.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun	
Bandwidth	Modulation	RB Size	RB offset	26055	26340	26675	Tune up	
		1	0	23.17	23.22	23.05	24.00	
		1	7	23.29	23.35	23.10	24.00	
3MHz	QPSK	1	14	23.31	23.02	23.11	24.00	
SIVITIZ	QFSN	8	0	22.21	22.15	22.15	23.00	
		8	4	22.19	22.16	22.05	23.00	
		8	7	22.20	22.12	22.02	23.00	



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	1	15	0	22.18	22.20	22.05	23.00
		1	0	22.38	22.34	22.25	23.00
		1	7	22.34	22.19	22.18	23.00
		1	14	22.33	22.18	22.19	23.00
	16QAM	8	0	21.09	20.90	21.18	22.00
		8	4	21.14	20.82	21.17	22.00
		8	7	21.33	20.88	21.17	22.00
		15	0	21.26	20.99	21.14	22.00
5 1		DD :	55 "	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	26065	26340	26665	Tune up
		1	0	23.27	23.15	23.10	24.00
		1	12	23.44	23.33	23.13	24.00
		1	24	23.20	23.19	23.07	24.00
	QPSK	12	0	22.15	22.10	22.02	23.00
		12	7	22.17	22.10	21.89	23.00
		12	13	22.13	22.07	22.01	23.00
		25	0	22.22	22.08	21.93	23.00
5MHz		1	0	22.30	22.35	21.96	23.00
		1	12	22.35	22.24	22.02	23.00
		1	24	22.49	22.54	21.90	23.00
	16QAM	12	0	21.14	21.09	20.92	22.00
		12	7	21.05	21.03	20.99	22.00
		12	13	21.11	21.07	20.96	22.00
		25	0	21.03	21.26	21.02	22.00
			DD -#+	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	26090	26340	26640	Tune up
		1	0	23.22	23.19	23.07	24.00
		1	25	23.45	23.51	23.06	24.00
		1	49	23.32	23.17	23.17	24.00
	QPSK	25	0	22.18	22.18	22.06	23.00
		25	12	22.27	22.21	22.03	23.00
		25	25	22.11	22.15	22.06	23.00
40.00		50	0	22.27	22.18	22.01	23.00
10MHz		1	0	22.09	22.53	22.13	23.00
		1	25	22.20	22.17	22.04	23.00
		1	49	22.19	22.06	22.02	23.00
	16QAM	25	0	21.08	21.35	21.05	22.00
		25	12	21.16	21.53	21.04	22.00
		25	25	21.06	21.19	20.91	22.00
		50	0	21.15	21.15	20.94	22.00
Danakolduk	Madelata		DD 4"1	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	26115	26340	26615	Tune up



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		1	0	23.14	23.29	23.08	24.00
		1	37	23.13	23.10	22.96	24.00
		1	74	23.02	22.91	22.84	24.00
	QPSK	36	0	22.13	22.18	22.13	23.00
		36	20	22.16	22.20	21.97	23.00
		36	39	22.09	22.15	21.97	23.00
458411-		75	0	22.10	22.18	22.10	23.00
15MHz		1	0	22.23	22.09	22.46	23.00
		1	37	22.45	22.16	21.97	23.00
		1	74	22.06	21.66	21.98	23.00
	16QAM	36	0	21.11	21.17	21.05	22.00
		36	20	21.12	21.17	20.78	22.00
		36	39	21.07	21.12	20.88	22.00
		75	0	21.06	21.10	21.04	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwiuii		ND SIZE	KD Ollset	26140	26340	26590	Tune up
		1	0	23.25	23.20	22.89	24.00
		1	50	23.40	23.08	23.23	24.00
		1	99	23.10	23.03	22.73	24.00
	QPSK	50	99	23.10 22.16	23.03 22.23	22.73 22.10	24.00 23.00
	QPSK						
	QPSK	50	0	22.16	22.23	22.10	23.00
2011	QPSK	50 50	0 25	22.16 22.06	22.23 22.09	22.10 22.02	23.00 23.00
20MHz	QPSK	50 50 50	0 25 50	22.16 22.06 22.04	22.23 22.09 22.05	22.10 22.02 21.93	23.00 23.00 23.00
20MHz	QPSK	50 50 50 100	0 25 50 0	22.16 22.06 22.04 22.10	22.23 22.09 22.05 22.13	22.10 22.02 21.93 22.10	23.00 23.00 23.00 23.00
20MHz	QPSK	50 50 50 100	0 25 50 0	22.16 22.06 22.04 22.10 22.32	22.23 22.09 22.05 22.13 22.42	22.10 22.02 21.93 22.10 22.18	23.00 23.00 23.00 23.00 23.00
20MHz	QPSK 16QAM	50 50 50 100 1	0 25 50 0 0 50	22.16 22.06 22.04 22.10 22.32 22.06	22.23 22.09 22.05 22.13 22.42 22.41	22.10 22.02 21.93 22.10 22.18 21.95	23.00 23.00 23.00 23.00 23.00 23.00
20MHz		50 50 50 100 1 1	0 25 50 0 0 50 99	22.16 22.06 22.04 22.10 22.32 22.06 21.99	22.23 22.09 22.05 22.13 22.42 22.41 22.16	22.10 22.02 21.93 22.10 22.18 21.95 21.75	23.00 23.00 23.00 23.00 23.00 23.00 23.00
20MHz		50 50 50 100 1 1 1 1 50	0 25 50 0 0 50 99	22.16 22.06 22.04 22.10 22.32 22.06 21.99 21.19	22.23 22.09 22.05 22.13 22.42 22.41 22.16 21.29	22.10 22.02 21.93 22.10 22.18 21.95 21.75 21.15	23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00

	LTE FDD Band	26		Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun	
Danuwium		RD SIZE	KD Ollset	26797	26915	27033	Tune up	
	QPSK	1	0	23.08	22.96	23.09	24.00	
		1	3	23.24	23.02	23.2	24.00	
		1	5	23.02	22.9	23.03	24.00	
1.4MHz		3	0	23.12	23.03	23.26	24.00	
		3	1	23.13	23.16	23.15	24.00	
		3	3	23.11	23.16	23.13	24.00	
		6	0	22.27	22.21	22.12	23.00	



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		1	0	22.6	22.49	22.53	23.00
		1	3	22.67	22.65	21.99	23.00
		1	5	22.52	22.46	22.05	23.00
	16QAM	3	0	22.24	22.32	22.27	23.00
		3	1	22.26	22.36	22.31	23.00
		3	3	22.33	22.27	22.37	23.00
		6	0	21.17	20.91	21.02	22.00
December 2 date	Madaladas	DD -i	DD - (()	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	26805	26915	27025	Tune up
		1	0	23.22	22.98	23.26	24.00
		1	8	23.38	23.3	23.25	24.00
		1	14	23.4	23.33	23.31	24.00
	QPSK	8	0	22.27	22.09	22.32	23.00
		8	4	22.23	22.17	22.24	23.00
		8	7	22.27	22.18	22.23	23.00
ONAL I		15	0	22.26	22.06	22.29	23.00
3MHz		1	0	22.96	22.53	22.85	23.00
		1	8	22.41	22.31	22.4	23.00
		1	14	22.54	22.36	22.41	23.00
	16QAM	8	0	21.42	20.87	21.31	22.00
		8	4	21.39	20.84	21.22	22.00
		8	7	21.4	20.88	21.12	22.00
		15	0	21.39	20.81	20.87	22.00
Dondwidth	Madulation	DD size	DD offeet	Channel	Channel	Channel	Tuna un
Bandwidth	Modulation	RB size	RB offset	26815	26915	27015	Tune up
		1	0	23.33	23.26	23.36	24.00
		1	12	23.35	23.30	23.41	24.00
		1	24	23.13	23.38	23.09	24.00
	QPSK	12	0	22.31	22.05	22.35	23.00
		12	7	22.31	22.12	22.21	23.00
		12	13	22.25	22.04	22.17	23.00
5MHz		25	0	22.29	22.12	22.21	23.00
SIVITZ		1	0	22.17	22.09	22.98	23.00
		1	12	22.08	22.00	22.42	23.00
		1	24	22.35	22.25	22.38	23.00
	16QAM	12	0	21.23	21.07	21.28	22.00
		12	7	21.09	21.06	20.96	22.00
		12	13	21.28	21.03	21.02	22.00
		25	0	21.21	21.22	21.15	22.00
Bandwidth	Modulation	Indeties DD elec		Channel	Channel	Channel	Tupo up
Danuwiuin	Wodulation	RB size	RB offset	26840	26915	26990	Tune up
10MHz	QPSK	1	0	23.37	23.25	23.40	24.00



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		1	25	23.31	23.13	23.18	24.00
		1	49	22.99	23.21	23.22	24.00
		25	0	22.42	22.06	22.34	23.00
		25	12	22.17	22.15	22.10	23.00
		25	25	22.04	22.10	22.21	23.00
		50	0	22.24	22.19	22.18	23.00
		1	0	23.11	22.56	22.43	23.50
		1	25	22.57	22.09	22.45	23.00
		1	49	22.26	22.39	21.98	23.00
	16QAM	25	0	21.35	21.12	21.27	22.00
		25	12	21.15	21.07	21.38	22.00
		25	25	21.05	21.08	21.33	22.00
		50	0	21.18	21.06	21.22	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwidin				26865	26915	26965	rune up
		1	0	23.23	23.12	23.17	24.00
		1	37	22.84	23.02	23.14	24.00
		1	74	23.16	23.24	23.01	24.00
	QPSK	36	0	22.26	22.13	22.28	23.00
		36	20	22.09	22.06	22.19	23.00
		36	39	22.06	22.14	22.09	23.00
15MHz		75	0	22.18	22.20	22.23	23.00
IOIVIEZ		1	0	22.19	23.12	22.08	23.50
		1	37	22.04	22.12	22.28	23.00
		1	74	22.42	22.20	22.28	23.00
	16QAM	36	0	21.08	21.13	21.15	22.00
		36	20	21.10	20.86	21.17	22.00
		36	39	20.87	21.05	21.18	22.00
		75	0	21.18	21.10	21.12	22.00



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8.1.4 Conducted Power Of Wi-Fi

Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm)	Tune up
	1	2412		15.82	16.50
802.11b	6	2437	1	15.22	16.50
	11	2462		15.47	16.50
	1	2412		13.79	14.50
802.11g	6	2437	6	13.24	14.50
	11	2462		12.33	14.50
	1	2412		12.99	14.00
802.11n HT20 SISO	6	2437	6.5	12.33	14.00
0.00	11	2462		11.47	14.00
	3	2422		12.31	14.00
802.11n HT40 SISO	6	2437	13.5	12.5	14.00
0.00	9	2452		12.16	14.00

Note:

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



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5GHz	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm)	Tune up
		36	5180		12.26	13.00
	U-NII-1	44	5220		12.84	13.00
		48	5240		12.90	13.00
		52	5260	-	13.13	13.50
	U-NII-2A	60	5300		12.91	13.50
000.44		64	5320		12.59	13.50
802.11a		100	5500	6	12.43	13.00
	U-NII-2C	116	5580		12.93	13.00
		140	5700		12.92	13.00
		149	5745		11.96	12.50
	U-NII-3	157	5785		11.59	12.50
		165	5825		11.61	12.50
5GHz	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm)	Tune up
		36	5180		12.88	14.00
	U-NII-1	44	5220		13.69	14.00
		48	5240		13.80	14.00
		52	5260		13.91	14.00
	U-NII-2A	60	5300		13.73	14.00
802.11n-HT20		64	5320	MCS0	13.43	14.00
002.1111-1120	U-NII-2C	100	5500	IVICSU	12.28	13.50
		116	5580		12.56	13.50
		140	5700		13.15	13.50
		149	5745		11.81	12.00
	U-NII-3	157	5785		11.39	12.00
		165	5825		10.64	12.00
5GHz	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm)	Tune up
	U-NII-1	38	5190		12.52	13.50
	0-1411-1	46	5230]	12.98	13.50
	U-NII-2A	54	5270]	13.20	13.50
	U-INII-ZA	62	5310]	12.80	13.50
802.11n-HT40		102	5510	MCS0	10.42	12.50
	U-NII-2C	110	5550]	10.66	12.50
		134	5670		12.31	12.50
	U-NII-3	151	5755		10.26	11.00
	0-1111-3	159	5795		10.79	11.00



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8.1.5 Conducted Power Of BT

	ВТ			
Modulation	Channel	Frequency (MHz)	Average Conducted Power(dBm)	Tune up (dBm)
	0	2402	7.24	8.00
GFSK	39	2441	6.58	8.00
	78	2480	7.61	8.00
	0	2402	7.12	8.00
π/4DQPSK	39	2441	6.48	8.00
	78	2480	7.63	8.00
	0	2402	7.69	8.00
8DPSK	39	2441	6.97	8.00
	78	2480	8.14	8.00

	BLE_1M				
Modulation	Channel	Frequency (MHz)	Average Conducted Power(dBm)	Tune up (dBm)	
	0	2402	2.90	3.00	
GFSK	19	2440	1.77	3.00	
	39	2480	3.09	3.00	

BLE 2#

DLL Z#					
	BLE			Tune up (dBm)	
Modulation	Channel	Frequency (MHz)	Average Conducted Power(dBm)		
	0	2402	-2.47	-2.0	
GFSK-1M	19	2440	-3.03	-2.0	
	39	2480	-2.87	-2.0	
	0	2402	-2.67	-2.0	
GFSK-2M	19	2440	-3.17	-2.0	
	39	2480	-2.93	-2.0	



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8.2 SAR-based Exemption

The following SAR test exclusion Thresholds based on KDB 447498 D04 Interim General RF Exposure Guidance v01 Appendix B

Extremity:

Freq.Band	Frequency (MHz)	Position	Max Power (dBm)	Antenna Gain (dBi)	Max Power (mW)	Antenna to user (mm)	Blank 1mW Blanket Exemption (mW)	MPE based Exemption (mm)	MPE based Exemption (mW)	SAR Based Exemption (mW)	Exclusion (Yes/No)
WIFI- 2.4GHz	2462	Side2	16.5	2.2	74.13	110	1	19	7.2	2452.0	Yes
ВТ	2480	Side2	8	2.2	10.47	110	1	19	7.1	2449.7	Yes
WIFI- 5GHz	5800	Side2	14.0	3.8	60.26	110	1	13	1.3	2191.4	Yes
BLE 2#	2480	Side2	-2.0	-1.05	0.63	50	1	19	7.1	/	Yes

Body:

Dody.											
Freq.Band	Frequency (MHz)	Position	Max Power (dBm)	Antenna Gain (dBi)	Max Power (mW)	Antenna to user (mm)	Blank 1mW Blanket Exemption (mW)	MPE based Exemption (mm)	MPE based Exemption (mW)	SAR Based Exemption (mW)	Exclusion (Yes/No)
WIFI- 2.4GHz	2462	Side2	16.5	2.2	74.13	110	1	19	7.2	980.8	Yes
ВТ	2480	Side2	8	2.2	10.47	110	1	19	7.1	979.9	Yes
WIFI- 5GHz	5800	Side2	14.0	3.8	60.26	110	1	13	1.3	877.5	Yes
BLE 2#	2480	Side2	-2.0	-1.05	0.63	50	1	19	7.1	/	Yes

Note:

- 1. Maximum power is the source-based time-average power and represents the maximum RF output power among production units
- 2. Per KDB 447498 D04, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
- 3. Per KDB 447498 D04, standalone SAR test exclusion threshold is applied; If the distance of the antenna to the user is < 5mm, 5mm is used to determine SAR exclusion threshold
- 4. Per KDB 447498 D04, the 1-g and 10-g SAR test exclusion thresholds for 300 MHz to 6 GHz

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula (B.2).

$$P_{\text{th }}(\text{mW}) = ERP_{20 \text{ cm}}(\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$
(B. 1)



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$$P_{\text{th}} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$
(B. 2)

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20}\operatorname{cm}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP_{20cm} is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

					Dis	stance	(mm)				
		- 5	10	15	20	25	30	35	40	45	50
\mathbf{z}	300	39	65	88	110	129	148	166	184	201	217
(MHz)	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
Frequency	1900	3	12	26	44	66	92	122	157	195	236
nba	2450	3	10	_ 22	38	59	83	111	143	179	219
Fr	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

5. when 10-g extremity SAR applies, SAR test exemption may be considered by applying a factor of 2.5 to the SAR-based exemption thresholds.



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8.3 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph Results refer to Appendix B
- 2) Per FCC KDB Publication 447498 D04, 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).
- 3) "*" is repeated measurement.



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8.3.1 SAR Result Of GSM850

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) 10-g
				Extren	nity Test o	lata (Sepa	rate 0mm)					
Front	GPRS 3TS	251/848.8	1:2.77	0.431	0.295	0.11	31.12	31.50	1.091	0.322	22.0	4.0
Back	GPRS 3TS	251/848.8	1:2.77	0.321	0.262	0.16	31.12	31.50	1.091	0.286	22.0	4.0
Side 1	GPRS 3TS	251/848.8	1:2.77	0.014	0.013	0.05	31.12	31.50	1.091	0.014	22.0	4.0
Side 2	GPRS 3TS	251/848.8	1:2.77	0.367	0.270	0.07	31.12	31.50	1.091	0.295	22.0	4.0
Side 3	GPRS 3TS	251/848.8	1:2.77	0.400	0.278	-0.02	31.12	31.50	1.091	0.304	22.0	4.0
Front	EGPRS 4TS	251/848.8	1:2.77	0.225	0.152	0.19	26.68	27.00	1.076	0.164	22.0	4.0

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g	
	Body Test data (Separate 0mm)												
Side 2	GPRS 3TS	251/848.8	1:2.77	0.367	0.270	0.07	31.12	31.50	1.091	0.401	22.1	1.6	
Side 2	EGPRS 4TS	251/848.8	1:2.77	0.185	0.101	0.02	26.68	27.00	1.076	0.199	22.1	1.6	



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8.3.2 SAR Result Of GSM1900

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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) 10-g
				Extrem	ity Test da	ata (Separ	ate 0mm)					
Front	GPRS 4TS	810/1909.8	1:2.075	1.22	0.748	0.09	30.14	30.50	1.086	0.813	22.1	4.0
Back	GPRS 4TS	810/1909.8	1:2.075	0.893	0.532	-0.08	30.14	30.50	1.086	0.578	22.1	4.0
Side 1	GPRS 4TS	810/1909.8	1:2.075	0.111	0.077	0.03	30.14	30.50	1.086	0.084	22.1	4.0
Side 2	GPRS 4TS	810/1909.8	1:2.075	0.802	0.477	-0.12	30.14	30.50	1.086	0.518	22.1	4.0
Side 3	GPRS 4TS	810/1909.8	1:2.075	1.06	0.591	-0.05	30.14	30.50	1.086	0.642	22.1	4.0
Front	EGPRS 4TS	810/1909.8	1:2.075	0.512	0.297	0.05	26.00	26.50	1.122	0.333	22.1	4.0

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g
				Body	/ Test data	(Separat	e 0mm)					
Side 2	GPRS 4TS	810/1909.8	1:2.075	0.802	0.477	-0.12	30.14	30.50	1.086	0.871	22.2	1.6
Side 2	GPRS 4TS	512/1850.2	1:2.075	0.718	0.397	-0.06	29.69	30.50	1.205	0.866	22.2	1.6
Side 2	GPRS 4TS	661/1880	1:2.075	0.794	0.440	0.03	30.11	30.50	1.094	0.869	22.2	1.6
Side 2	EGPRS 4TS	810/1909.8	1:2.075	0.397	0.219	0.15	26.00	26.50	1.122	0.445	22.2	1.6
Side 2*	GPRS 4TS	810/1909.8	1:2.075	0.784	0.466	0.07	30.14	30.50	1.086	0.852	22.2	1.6



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8.3.3 SAR Result Of WCDMA Band II

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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) 10-g
				Extrer	nity Test o	lata (Sepa	arate 0mm)					
Front	RMC	9400/1880	1:1	1.35	0.792	-0.14	23.54	24.00	1.112	0.880	22.1	4.0
Back	RMC	9400/1880	1:1	0.992	0.561	0.04	23.54	24.00	1.112	0.624	22.1	4.0
Side 1	RMC	9400/1880	1:1	0.129	0.084	0.08	23.54	24.00	1.112	0.093	22.1	4.0
Side 2	RMC	9400/1880	1:1	0.888	0.507	0.01	23.54	24.00	1.112	0.564	22.1	4.0
Side 3	RMC	9400/1880	1:1	1.22	0.685	-0.03	23.54	24.00	1.112	0.762	22.1	4.0

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g		
	Body Test data (Separate 0mm)													
Side 2	RMC	9400/1880	1:1	0.888	0.507	0.01	23.54	24.00	1.112	0.988	22.2	1.6		
Side 2	RMC	9262/1852.4	1:1	0.875	0.505	-0.19	23.52	24.00	1.117	0.978	22.2	1.6		
Side 2	RMC	9538/1907.6	1:1	0.885	0.500	0.06	23.54	24.00	1.112	0.983	22.2	1.6		



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8.3.4 SAR Result Of WCDMA Band IV

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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) 10-g
				Extrer	nity Test o	lata (Sepa	rate 0mm)					
Front	RMC	1312/1712.4	1:1	0.889	0.584	-0.04	23.76	24.00	1.057	0.617	22.0	4.0
Back	RMC	1312/1712.4	1:1	0.649	0.418	-0.11	23.76	24.00	1.057	0.442	22.0	4.0
Side 1	RMC	1312/1712.4	1:1	0.087	0.063	0.12	23.76	24.00	1.057	0.066	22.0	4.0
Side 2	RMC	1312/1712.4	1:1	0.545	0.346	0.02	23.76	24.00	1.057	0.366	22.0	4.0
Side 3	RMC	1312/1712.4	1:1	0.817	0.514	-0.09	23.76	24.00	1.057	0.544	22.0	4.0

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g
				Bod	y Test dat	a (Separa	te 0mm)					
Side 2	RMC	1312/1712.4	1:1	0.545	0.346	0.02	23.76	24.00	1.057	0.576	22.0	1.6



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8.3.5 SAR Result Of WCDMA Band V

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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) 10-g
				Extrer	nity Test o	lata (Sepa	arate 0mm)					
Front	RMC	4233/846.6	1:1	1.14	0.765	0.17	23.65	24.00	1.084	0.829	22.0	4.0
Back	RMC	4233/846.6	1:1	0.865	0.701	-0.01	23.65	24.00	1.084	0.760	22.0	4.0
Side 1	RMC	4233/846.6	1:1	0.028	0.025	0.06	23.65	24.00	1.084	0.028	22.0	4.0
Side 2	RMC	4233/846.6	1:1	0.988	0.745	0.03	23.65	24.00	1.084	0.807	22.0	4.0
Side 3	RMC	4233/846.6	1:1	1.05	0.753	0.01	23.65	24.00	1.084	0.816	22.0	4.0

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g		
	Body Test data (Separate 0mm)													
Side 2	RMC	4233/846.6	1:1	0.988	0.745	0.03	23.65	24.00	1.084	1.071	22.1	1.6		
Side 2	RMC	4132/826.4	1:1	0.945	0.720	-0.02	23.61	24.00	1.094	1.033	22.1	1.6		
Side 2	RMC	4182/836.4	1:1	0.935	0.706	0.18	23.55	24.00	1.109	1.037	22.1	1.6		



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8.3.6 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)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp	SAR limit (W/kg) 10-g
				Extremity	Test data	(Separate	0mm)					
Front	20M_QPSK 1RB_0	18900/1880	1:1	1.18	0.732	-0.15	23.32	24.00	1.169	0.856	22.1	4.0
Back	20M_QPSK 1RB_0	18900/1880	1:1	0.867	0.514	-0.12	23.32	24.00	1.169	0.601	22.1	4.0
Side 1	20M_QPSK 1RB_0	18900/1880	1:1	0.112	0.078	-0.05	23.32	24.00	1.169	0.091	22.1	4.0
Side 2	20M_QPSK 1RB_0	18900/1880	1:1	0.789	0.469	0.06	23.32	24.00	1.169	0.549	22.1	4.0
Side 3	20M_QPSK 1RB_0	18900/1880	1:1	1.08	0.730	0.14	23.32	24.00	1.169	0.853	22.1	4.0
Front	20M_QPSK 50RB_0	18900/1880	1:1	0.990	0.627	0.18	22.30	23.00	1.175	0.737	22.1	4.0
Back	20M_QPSK 50RB_0	18900/1880	1:1	0.723	0.447	-0.08	22.30	23.00	1.175	0.525	22.1	4.0
Side 1	20M_QPSK 50RB_0	18900/1880	1:1	0.096	0.064	-0.19	22.30	23.00	1.175	0.075	22.1	4.0
Side 2	20M_QPSK 50RB_0	18900/1880	1:1	0.616	0.365	0.14	22.30	23.00	1.175	0.429	22.1	4.0
Side 3	20M_QPSK 50RB_0	18900/1880	1:1	0.670	0.387	0.07	22.30	23.00	1.175	0.455	22.1	4.0

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g
				Body Te	est data (S	eparate 0ı	mm)					
Side 2	20M_QPSK 1RB_0	18900/1880	1:1	0.789	0.469	0.06	23.32	24.00	1.169	0.923	22.2	1.6
Side 2	20M_QPSK 1RB_0	18700/1860	1:1	0.740	0.400	-0.13	23.12	24.00	1.225	0.907	22.2	1.6
Side 2	20M_QPSK 1RB_0	19100/1900	1:1	0.758	0.418	0.04	23.23	24.00	1.194	0.905	22.2	1.6
Side 2	20M_QPSK 50RB_0	18900/1880	1:1	0.616	0.365	0.14	22.30	23.00	1.175	0.724	22.2	1.6
Side 2	20M_QPSK 50RB_0	18700/1860	1:1	0.567	0.316	-0.07	22.24	23.00	1.191	0.676	22.2	1.6
Side 2	20M_QPSK 50RB_0	19100/1900	1:1	0.559	0.335	0.16	22.22	23.00	1.197	0.669	22.2	1.6



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8.3.7 SAR Result Of LTE Band 4

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp	SAR limit (W/kg) 10-g
				Extremity	Test data	(Separate	0mm)					
Front	20M_QPSK 1RB_0	20050/1720	1:1	0.912	0.607	-0.12	23.81	24.50	1.172	0.712	22.2	4.0
Back	20M_QPSK 1RB_0	20050/1720	1:1	0.670	0.430	0.18	23.81	24.50	1.172	0.504	22.2	4.0
Side 1	20M_QPSK 1RB_0	20050/1720	1:1	0.085	0.061	-0.09	23.81	24.50	1.172	0.072	22.2	4.0
Side 2	20M_QPSK 1RB_0	20050/1720	1:1	0.564	0.356	0.01	23.81	24.50	1.172	0.417	22.2	4.0
Side 3	20M_QPSK 1RB_0	20050/1720	1:1	0.846	0.544	-0.01	23.81	24.50	1.172	0.638	22.2	4.0
Front	20M_QPSK 50RB_0	20050/1720	1:1	0.739	0.486	-0.12	22.59	23.50	1.233	0.600	22.2	4.0
Back	20M_QPSK 50RB_0	20050/1720	1:1	0.540	0.345	0.04	22.59	23.50	1.233	0.425	22.2	4.0
Side 1	20M_QPSK 50RB_0	20050/1720	1:1	0.075	0.050	-0.07	22.59	23.50	1.233	0.062	22.2	4.0
Side 2	20M_QPSK 50RB_0	20050/1720	1:1	0.457	0.293	0.07	22.59	23.50	1.233	0.361	22.2	4.0
Side 3	20M_QPSK 50RB_0	20050/1720	1:1	0.489	0.304	-0.05	22.59	23.50	1.233	0.374	22.2	4.0

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g
				Body Te	est data (S	eparate 0r	mm)					
Side 2	20M_QPSK 1RB_0	20050/1720	1:1	0.564	0.356	0.01	23.81	24.50	1.172	0.661	22.0	1.6
Side 2	20M_QPSK 50RB_0	20050/1720	1:1	0.457	0.293	0.07	22.59	23.50	1.233	0.564	22.0	1.6



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8.3.8 SAR Result Of LTE Band 5

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp	SAR limit (W/kg) 10-g
				Extremity	/ Test data	(Separat	e 0mm)					
Front	20M_QPSK 1RB_0	20450/829	1:1	0.405	0.277	0.07	23.43	24.50	1.279	0.354	22.0	4.0
Back	20M_QPSK 1RB_0	20450/829	1:1	0.307	0.257	-0.11	23.43	24.50	1.279	0.328	22.0	4.0
Side 1	20M_QPSK 1RB_0	20450/829	1:1	0.014	0.008	0.05	23.43	24.50	1.279	0.010	22.0	4.0
Side 2	20M_QPSK 1RB_0	20450/829	1:1	0.353	0.268	0.11	23.43	24.50	1.279	0.342	22.0	4.0
Side 3	20M_QPSK 1RB_0	20450/829	1:1	0.383	0.253	0.02	23.43	24.50	1.279	0.323	22.0	4.0
Front	10M_QPSK 25RB_0	20600/844	1:1	0.309	0.215	0.18	22.45	23.50	1.274	0.273	22.0	4.0
Back	10M_QPSK 25RB_0	20600/844	1:1	0.244	0.193	0.06	22.45	23.50	1.274	0.246	22.0	4.0
Side 1	10M_QPSK 25RB_0	20600/844	1:1	0.010	0.050	-0.06	22.45	23.50	1.274	0.064	22.0	4.0
Side 2	10M_QPSK 25RB_0	20600/844	1:1	0.276	0.211	-0.06	22.45	23.50	1.274	0.269	22.0	4.0
Side 3	10M_QPSK 25RB_0	20600/844	1:1	0.296	0.208	0.08	22.45	23.50	1.274	0.264	22.0	4.0

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g
				Body T	est data (Separate (Omm)					
Side 2	10M_QPSK 1RB_0	20450/829	1:1	0.353	0.268	0.11	23.43	24.50	1.279	0.452	22.1	1.6
Side 2	10M_QPSK 25RB_0	20600/844	1:1	0.276	0.211	-0.06	22.45	23.50	1.274	0.351	22.1	1.6



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8.3.9 SAR Result Of LTE Band 7

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp	SAR limit (W/kg) 10-g
			E	xtremity To	est data (S	Separate 0	mm)					
Front	20M_QPSK 1RB_0	21350/2560	1:1	1.39	0.765	0.12	24.08	24.50	1.102	0.843	22.0	4.0
Back	20M_QPSK 1RB_0	21350/2560	1:1	1.02	0.546	-0.13	24.08	24.50	1.102	0.601	22.0	4.0
Side 1	20M_QPSK 1RB_0	21350/2560	1:1	0.135	0.083	0.06	24.08	24.50	1.102	0.091	22.0	4.0
Side 2	20M_QPSK 1RB_0	21350/2560	1:1	0.941	0.504	0.02	24.08	24.50	1.102	0.555	22.0	4.0
Side 3	20M_QPSK 1RB_0	21350/2560	1:1	1.29	0.670	0.03	24.08	24.50	1.102	0.738	22.0	4.0
Front	20M_QPSK 50RB_50	21100/2535.5	1:1	1.08	0.619	0.09	23.07	23.50	1.104	0.683	22.0	4.0
Back	20M_QPSK 50RB_50	21100/2535.5	1:1	0.821	0.451	0.15	23.07	23.50	1.104	0.498	22.0	4.0
Side 1	20M_QPSK 50RB_50	21100/2535.5	1:1	0.103	0.072	-0.18	23.07	23.50	1.104	0.079	22.0	4.0
Side 2	20M_QPSK 50RB_50	21100/2535.5	1:1	0.752	0.405	0.07	23.07	23.50	1.104	0.448	22.0	4.0
Side 3	20M_QPSK 50RB_50	21100/2535.5	1:1	0.827	0.396	0.02	23.07	23.50	1.104	0.437	22.0	4.0

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g
				Body Te	est data (S	eparate 0r	nm)					
Side 2	20M_QPSK 1RB_0	21350/2560	1:1	0.941	0.504	0.02	24.08	24.50	1.102	1.037	22.0	1.6
Side 2	20M_QPSK 1RB_0	20850/2510	1:1	0.919	0.471	0.13	24.01	24.50	1.119	1.029	22.0	1.6
Side 2	20M_QPSK 1RB_0	21100/2535	1:1	0.882	0.453	-0.04	23.86	24.50	1.159	1.022	22.0	1.6
Side 2	20M_QPSK 50RB_50	21100/2535	1:1	0.752	0.405	0.07	23.07	23.50	1.104	0.831	22.0	1.6
Side 2	20M_QPSK 50RB_50	21400/2685	1:1	0.674	0.349	-0.16	22.67	23.50	1.211	0.816	22.0	1.6
Side 2	20M_QPSK 50RB_50	21400/2685	1:1	0.739	0.392	-0.05	23.02	23.50	1.117	0.825	22.0	1.6



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8.3.10 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)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp	SAR limit (W/kg) 10-g
			I	Extremity ⁻	Test data (Separate	0mm)					
Front	10M_QPSK 1RB_25	23095/707.5	1:1	0.253	0.174	-0.09	23.64	24.00	1.086	0.189	22.0	4.0
Back	10M_QPSK 1RB_25	23095/707.5	1:1	0.193	0.161	0.14	23.64	24.00	1.086	0.174	22.0	4.0
Side 1	10M_QPSK 1RB_25	23095/707.5	1:1	0.008	0.004	0.09	23.64	24.00	1.086	0.004	22.0	4.0
Side 2	10M_QPSK 1RB_25	23095/707.5	1:1	0.217	0.167	0.04	23.64	24.00	1.086	0.182	22.0	4.0
Side 3	10M_QPSK 1RB_25	23095/707.5	1:1	0.226	0.148	-0.08	23.64	24.00	1.086	0.160	22.0	4.0
Front	10M_QPSK 25RB_0	23130/711	1:1	0.203	0.140	0.07	22.39	23.00	1.151	0.161	22.0	4.0
Back	10M_QPSK 25RB_0	23130/711	1:1	0.140	0.121	0.06	22.39	23.00	1.151	0.139	22.0	4.0
Side 1	10M_QPSK 25RB_0	23130/711	1:1	0.006	0.003	0.18	22.39	23.00	1.151	0.003	22.0	4.0
Side 2	10M_QPSK 25RB_0	23130/711	1:1	0.172	0.133	0.11	22.39	23.00	1.151	0.153	22.0	4.0
Side 3	10M_QPSK 25RB_0	23130/711	1:1	0.180	0.129	-0.1	22.39	23.00	1.151	0.149	22.0	4.0

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g
				Body Te	st data (Se	eparate 0n	nm)					
Side 2	10M_QPSK 1RB_25	23095/707.5	1:1	0.217	0.167	0.04	23.64	24.00	1.086	0.236	22.0	1.6
Side 2	10M_QPSK 25RB_0	23130/711	1:1	0.172	0.133	0.11	22.39	23.00	1.151	0.198	22.0	1.6



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8.3.11 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)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp	SAR limit (W/kg) 10-g
				Extremity	/ Test data	a (Separat	e 0mm)					
Front	10M_QPSK 1RB_0	23230/782	1:1	0.283	0.195	0.08	23.35	24.00	1.161	0.226	22.0	4.0
Back	10M_QPSK 1RB_0	23230/782	1:1	0.220	0.181	-0.12	23.35	24.00	1.161	0.210	22.0	4.0
Side 1	10M_QPSK 1RB_0	23230/782	1:1	0.009	0.006	-0.06	23.35	24.00	1.161	0.007	22.0	4.0
Side 2	10M_QPSK 1RB_0	23230/782	1:1	0.244	0.188	0.1	23.35	24.00	1.161	0.219	22.0	4.0
Side 3	10M_QPSK 1RB_0	23230/782	1:1	0.257	0.170	-0.11	23.35	24.00	1.161	0.198	22.0	4.0
Front	10M_QPSK 25RB_0	23230/782	1:1	0.211	0.143	-0.19	22.19	23.00	1.205	0.172	22.0	4.0
Back	10M_QPSK 25RB_0	23230/782	1:1	0.157	0.138	0.1	22.19	23.00	1.205	0.167	22.0	4.0
Side 1	10M_QPSK 25RB_0	23230/782	1:1	0.008	0.004	-0.03	22.19	23.00	1.205	0.005	22.0	4.0
Side 2	10M_QPSK 25RB_0	23230/782	1:1	0.191	0.145	0.09	22.19	23.00	1.205	0.174	22.0	4.0
Side 3	10M_QPSK 25RB_0	23230/782	1:1	0.204	0.130	0.08	22.19	23.00	1.205	0.157	22.0	4.0

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g
				Body T	est data (Separate (Omm)					
Side 2	10M_QPSK 1RB_0	23230/782	1:1	0.244	0.188	0.1	23.35	24.00	1.161	0.283	22.0	1.6
Side 2	10M_QPSK 25RB_0	23230/782	1:1	0.191	0.145	0.09	22.19	23.00	1.205	0.230	22.0	1.6



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8.3.12SAR Result Of LTE Band 25

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) 10-g
				Extremity	Test data	(Separate	0mm)					
Front	20M_QPSK 1RB_50	26140/1860	1:1	1.26	0.773	0.12	23.40	24.00	1.148	0.888	22.1	4.0
Back	20M_QPSK 1RB_50	26140/1860	1:1	0.998	0.575	-0.11	23.40	24.00	1.148	0.661	22.1	4.0
Side 1	20M_QPSK 1RB_50	26140/1860	1:1	0.122	0.086	-0.19	23.40	24.00	1.148	0.098	22.1	4.0
Side 2	20M_QPSK 1RB_50	26140/1860	1:1	0.877	0.527	-0.12	23.40	24.00	1.148	0.605	22.1	4.0
Side 3	20M_QPSK 1RB_50	26140/1860	1:1	1.11	0.632	0.06	23.40	24.00	1.148	0.725	22.1	4.0
Front	20M_QPSK 50RB_0	26340/1880	1:1	0.997	0.604	0.04	22.23	23.00	1.194	0.721	22.1	4.0
Back	20M_QPSK 50RB_0	26340/1880	1:1	0.785	0.448	-0.03	22.23	23.00	1.194	0.535	22.1	4.0
Side 1	20M_QPSK 50RB_0	26340/1880	1:1	0.099	0.057	0.16	22.23	23.00	1.194	0.068	22.1	4.0
Side 2	20M_QPSK 50RB_0	26340/1880	1:1	0.676	0.411	0.16	22.23	23.00	1.194	0.491	22.1	4.0
Side 3	20M_QPSK 50RB_0	26340/1880	1:1	0.892	0.464	0.01	22.23	23.00	1.194	0.554	22.1	4.0

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g
				Body Te	est data (S	eparate 0ı	mm)					
Side 2	20M_QPSK 1RB_50	26140/1860	1:1	0.877	0.527	-0.12	23.40	24.00	1.148	1.007	22.1	1.6
Side 2	20M_QPSK 1RB_50	26340/1880	1:1	0.803	0.492	-0.03	23.08	24.00	1.236	0.992	22.1	1.6
Side 2	20M_QPSK 1RB_50	26590/1905	1:1	0.835	0.501	0.08	23.23	24.00	1.194	0.996	22.1	1.6
Side 2	20M_QPSK 50RB_0	26340/1880	1:1	0.676	0.411	0.16	22.23	23.00	1.194	0.807	22.1	1.6
Side 2	20M_QPSK 50RB_0	26140/1860	1:1	0.637	0.384	0.02	22.16	23.00	1.213	0.773	22.1	1.6
Side 2	20M_QPSK 50RB_0	26590/1905	1:1	0.625	0.380	0.17	22.10	23.00	1.230	0.769	22.1	1.6



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8.3.13 SAR Result Of LTE Band 26

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) 10-g
			I	Extremity ⁻	Γest data (Separate	0mm)					
Front	20M_QPSK 1RB_74	26915/836.5	1:1	0.367	0.254	0.05	23.24	24.00	1.191	0.303	22.1	4.0
Back	20M_QPSK 1RB_74	26915/836.5	1:1	0.277	0.237	-0.13	23.24	24.00	1.191	0.282	22.1	4.0
Side 1	20M_QPSK 1RB_74	26915/836.5	1:1	0.011	0.006	-0.06	23.24	24.00	1.191	0.007	22.1	4.0
Side 2	20M_QPSK 1RB_74	26915/836.5	1:1	0.318	0.247	0.11	23.24	24.00	1.191	0.295	22.1	4.0
Side 3	20M_QPSK 1RB_74	26915/836.5	1:1	0.343	0.227	0.03	23.24	24.00	1.191	0.270	22.1	4.0
Front	20M_QPSK 36RB_0	26965/841.5	1:1	0.287	0.191	0.05	22.28	23.00	1.180	0.225	22.1	4.0
Back	20M_QPSK 36RB_0	26965/841.5	1:1	0.217	0.174	-0.17	22.28	23.00	1.180	0.206	22.1	4.0
Side 1	20M_QPSK 36RB_0	26965/841.5	1:1	0.010	0.005	-0.14	22.28	23.00	1.180	0.006	22.1	4.0
Side 2	20M_QPSK 36RB_0	26965/841.5	1:1	0.252	0.196	0.07	22.28	23.00	1.180	0.232	22.1	4.0
Side 3	20M_QPSK 36RB_0	26965/841.5	1:1	0.266	0.186	0.04	22.28	23.00	1.180	0.219	22.1	4.0

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g
				Body Te	st data (Se	eparate 0n	nm)					
Side 2	15M_QPSK 1RB_74	26915/836.5	1:1	0.318	0.247	0.11	23.24	24.00	1.191	0.379	22.1	1.6
Side 2	15M_QPSK 36RB_0	26965/841.5	1:1	0.252	0.196	0.07	22.28	23.00	1.180	0.298	22.1	1.6



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8.4 Multiple Transmitter Evaluation

8.4.1 Estimated SAR

When an antenna qualifies for test exemption in single transmitter/antenna mode, its actual SAR value may not be available, because it was not required to be measured.

In this case, the SAR contribution of that antenna to simultaneous transmission must be estimated relative to the SAR or MPE test exemption criteria for the applicable terms in the TER expression, eq. (2.1), by multiplying the corresponding ratio by the SAR limit of 0.4 W/kg for 1-g SAR.33 This is referred to as estimated SAR.

For instance, a given antenna may qualify for a SAR test exemption according to Sec. B.1, with Pant < Pth, where Pant is maximum time-averaged power or effective radiated power (ERP), whichever is applicable, and Pth is exemption power threshold defined in eq. (B.1.1). Then, the estimated SAR is computed as SARest =0.4 \cdot Pant / Pth [W/kg].

Extremity:

Band	Frequency	Pant	Pth	Estimated SAR-10g
	(MHz)	(mW)	(mW)	(W/kg)
WIFI 2.4GHz	2462	74.13	2452.0	0.012
BT	2480	10.47	2449.7	0.002
WIFI 5GHz	5850	60.26	2191.4	0.011
BLE 2#	2480	0.63	545.6	0.001

Body:

Dody.				
Band	Frequency (MHz)	Pant (mW)	Pth (mW)	Estimated SAR-10g (W/kg)
WIFI 2.4GHz	2462	74.13	980.8	0.030
BT	2480	10.47	979.9	0.004
WIFI 5GHz	5850	60.26	877.5	0.027
BLE 2#	2480	0.63	218.2	0.001



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8.4.2 Simultaneous SAR SAR test evaluation for Extremity

<u> </u>	6.4.25 initialized SAR SAR lest evaluation for Extremity													
WWAN Band	Exposure position	① MAX. WWAN SAR (W/kg)	②MAX. WLAN2.4G SAR (W/kg)	③ MAX WLAN 5G SAR (W/kg)	④ MAX. BT SAR (W/kg)	⑤ MAX. BLE SAR (W/kg)	Summed SAR ①+②	Summed SAR ①+③	Summed SAR ①+④	Summed SAR ①+⑤	Summed SAR ①+②+ ⑤	Summed SAR ①+③+ ⑤	Summed SAR ①+④+ ⑤	Volume scan
	Front	0.322	0.012	0.011	0.002	0.001	0.334	0.333	0.324	0.323	0.335	0.334	0.325	NO
	Back	0.286	0.012	0.011	0.002	0.001	0.298	0.297	0.288	0.287	0.299	0.298	0.289	NO
GSM850	Side 1	0.014	0.012	0.011	0.002	0.001	0.026	0.025	0.016	0.015	0.027	0.026	0.017	NO
	Side 2	0.295	0.012	0.011	0.002	0.001	0.307	0.306	0.297	0.296	0.308	0.307	0.298	NO
	Side 3	0.304	0.012	0.011	0.002	0.001	0.316	0.315	0.306	0.305	0.317	0.316	0.307	NO
	Front	0.813	0.012	0.011	0.002	0.001	0.825	0.824	0.815	0.814	0.826	0.825	0.816	NO
	Back	0.578	0.012	0.011	0.002	0.001	0.590	0.589	0.580	0.579	0.591	0.590	0.581	NO
GSM1900	Side 1	0.084	0.012	0.011	0.002	0.001	0.096	0.095	0.086	0.085	0.097	0.096	0.087	NO
	Side 2	0.518	0.012	0.011	0.002	0.001	0.530	0.529	0.520	0.519	0.531	0.530	0.521	NO
	Side 3	0.642	0.012	0.011	0.002	0.001	0.654	0.653	0.644	0.643	0.655	0.654	0.645	NO
	Front	0.880	0.012	0.011	0.002	0.001	0.892	0.891	0.882	0.881	0.893	0.892	0.883	NO
	Back	0.624	0.012	0.011	0.002	0.001	0.636	0.635	0.626	0.625	0.637	0.636	0.627	NO
WCDMA Band II	Side 1	0.093	0.012	0.011	0.002	0.001	0.105	0.104	0.095	0.094	0.106	0.105	0.096	NO
Danu II	Side 2	0.564	0.012	0.011	0.002	0.001	0.576	0.575	0.566	0.565	0.577	0.576	0.567	NO
	Side 3	0.762	0.012	0.011	0.002	0.001	0.774	0.773	0.764	0.763	0.775	0.774	0.765	NO
	Front	0.617	0.012	0.011	0.002	0.001	0.629	0.628	0.619	0.618	0.630	0.629	0.620	NO
	Back	0.442	0.012	0.011	0.002	0.001	0.454	0.453	0.444	0.443	0.455	0.454	0.445	NO
WCDMA Band IV	Side 1	0.066	0.012	0.011	0.002	0.001	0.078	0.077	0.068	0.067	0.079	0.078	0.069	NO
Danu IV	Side 2	0.366	0.012	0.011	0.002	0.001	0.378	0.377	0.368	0.367	0.379	0.378	0.369	NO
	Side 3	0.544	0.012	0.011	0.002	0.001	0.556	0.555	0.546	0.545	0.557	0.556	0.547	NO
	Front	0.829	0.012	0.011	0.002	0.001	0.841	0.840	0.831	0.830	0.842	0.841	0.832	NO
	Back	0.760	0.012	0.011	0.002	0.001	0.772	0.771	0.762	0.761	0.773	0.772	0.763	NO
WCDMA Band V	Side 1	0.028	0.012	0.011	0.002	0.001	0.040	0.039	0.030	0.029	0.041	0.040	0.031	NO
Dana v	Side 2	0.807	0.012	0.011	0.002	0.001	0.819	0.818	0.809	0.808	0.820	0.819	0.810	NO
	Side 3	0.816	0.012	0.011	0.002	0.001	0.828	0.827	0.818	0.817	0.829	0.828	0.819	NO
	Front	0.856	0.012	0.011	0.002	0.001	0.868	0.867	0.858	0.857	0.869	0.868	0.859	NO
	Back	0.601	0.012	0.011	0.002	0.001	0.613	0.612	0.603	0.602	0.614	0.613	0.604	NO
LTE Band 2	Side 1	0.091	0.012	0.011	0.002	0.001	0.103	0.102	0.093	0.092	0.104	0.103	0.094	NO
-	Side 2	0.549	0.012	0.011	0.002	0.001	0.561	0.560	0.551	0.550	0.562	0.561	0.552	NO
	Side 3	0.853	0.012	0.011	0.002	0.001	0.865	0.864	0.855	0.854	0.866	0.865	0.856	NO
	Front	0.712	0.012	0.011	0.002	0.001	0.724	0.723	0.714	0.713	0.725	0.724	0.715	NO
LTE Band	Back	0.504	0.012	0.011	0.002	0.001	0.516	0.515	0.506	0.505	0.517	0.516	0.507	NO
4	Side 1	0.072	0.012	0.011	0.002	0.001	0.084	0.083	0.074	0.073	0.085	0.084	0.075	NO
	Side 2	0.417	0.012	0.011	0.002	0.001	0.429	0.428	0.419	0.418	0.430	0.429	0.420	NO



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	Side 3	0.638	0.012	0.011	0.002	0.001	0.650	0.649	0.640	0.639	0.651	0.650	0.641	NO
	Front	0.354	0.012	0.011	0.002	0.001	0.366	0.365	0.356	0.355	0.367	0.366	0.357	NO
	Back	0.328	0.012	0.011	0.002	0.001	0.340	0.339	0.330	0.329	0.341	0.340	0.331	NO
LTE Band 5	Side 1	0.010	0.012	0.011	0.002	0.001	0.022	0.021	0.012	0.011	0.023	0.022	0.013	NO
· ·	Side 2	0.342	0.012	0.011	0.002	0.001	0.354	0.353	0.344	0.343	0.355	0.354	0.345	NO
	Side 3	0.323	0.012	0.011	0.002	0.001	0.335	0.334	0.325	0.324	0.336	0.335	0.326	NO
	Front	0.843	0.012	0.011	0.002	0.001	0.855	0.854	0.845	0.844	0.856	0.855	0.846	NO
	Back	0.601	0.012	0.011	0.002	0.001	0.613	0.612	0.603	0.602	0.614	0.613	0.604	NO
LTE Band 7	Side 1	0.091	0.012	0.011	0.002	0.001	0.103	0.102	0.093	0.092	0.104	0.103	0.094	NO
-	Side 2	0.555	0.012	0.011	0.002	0.001	0.567	0.566	0.557	0.556	0.568	0.567	0.558	NO
	Side 3	0.738	0.012	0.011	0.002	0.001	0.750	0.749	0.740	0.739	0.751	0.750	0.741	NO
	Front	0.189	0.012	0.011	0.002	0.001	0.201	0.200	0.191	0.190	0.202	0.201	0.192	NO
	Back	0.174	0.012	0.011	0.002	0.001	0.186	0.185	0.176	0.175	0.187	0.186	0.177	NO
LTE Band 12	Side 1	0.004	0.012	0.011	0.002	0.001	0.016	0.015	0.006	0.005	0.017	0.016	0.007	NO
	Side 2	0.182	0.012	0.011	0.002	0.001	0.194	0.193	0.184	0.183	0.195	0.194	0.185	NO
	Side 3	0.160	0.012	0.011	0.002	0.001	0.172	0.171	0.162	0.161	0.173	0.172	0.163	NO
	Front	0.226	0.012	0.011	0.002	0.001	0.238	0.237	0.228	0.227	0.239	0.238	0.229	NO
	Back	0.210	0.012	0.011	0.002	0.001	0.222	0.221	0.212	0.211	0.223	0.222	0.213	NO
LTE Band 13	Side 1	0.007	0.012	0.011	0.002	0.001	0.019	0.018	0.009	0.008	0.020	0.019	0.010	NO
	Side 2	0.219	0.012	0.011	0.002	0.001	0.231	0.230	0.221	0.220	0.232	0.231	0.222	NO
	Side 3	0.198	0.012	0.011	0.002	0.001	0.210	0.209	0.200	0.199	0.211	0.210	0.201	NO
	Front	0.888	0.012	0.011	0.002	0.001	0.900	0.899	0.890	0.889	0.901	0.900	0.891	NO
	Back	0.661	0.012	0.011	0.002	0.001	0.673	0.672	0.663	0.662	0.674	0.673	0.664	NO
LTE Band 25	Side 1	0.098	0.012	0.011	0.002	0.001	0.110	0.109	0.100	0.099	0.111	0.110	0.101	NO
	Side 2	0.605	0.012	0.011	0.002	0.001	0.617	0.616	0.607	0.606	0.618	0.617	0.608	NO
	Side 3	0.725	0.012	0.011	0.002	0.001	0.737	0.736	0.727	0.726	0.738	0.737	0.728	NO
	Front	0.303	0.012	0.011	0.002	0.001	0.315	0.314	0.305	0.304	0.316	0.315	0.306	NO
	Back	0.282	0.012	0.011	0.002	0.001	0.294	0.293	0.284	0.283	0.295	0.294	0.285	NO
LTE Band 26	Side 1	0.007	0.012	0.011	0.002	0.001	0.019	0.018	0.009	0.008	0.020	0.019	0.010	NO
	Side 2	0.295	0.012	0.011	0.002	0.001	0.307	0.306	0.297	0.296	0.308	0.307	0.298	NO
	Side 3	0.270	0.012	0.011	0.002	0.001	0.282	0.281	0.272	0.271	0.283	0.282	0.273	NO



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8.4.3 Simultaneous SAR SAR test evaluation for Body

WWAN Band	Exposure position	①MAX. WWAN SAR (W/kg)	②MAX. WLAN2.4G SAR (W/kg)	③MAX WLAN 5G (W/kg)	MAX. BT SAR (W/kg)	⑤MAX. BLE SAR (W/kg)	Summed SAR ①+②	Summed SAR ①+③	Summed SAR ①+④	Summed SAR ①+⑤	Summed SAR ①+②+⑤	Summed SAR ①+③+⑤	Summed SAR ①+④+⑤	Volume scan
GSM850	side2	0.401	0.030	0.027	0.004	0.003	0.431	0.428	0.405	0.404	0.434	0.431	0.408	NO
GSM1900	side2	0.871	0.030	0.027	0.004	0.003	0.901	0.898	0.875	0.874	0.904	0.901	0.878	NO
WCDMA Band II	side2	0.988	0.030	0.027	0.004	0.003	1.018	1.015	0.992	0.991	1.021	1.018	0.995	NO
WCDMA Band IV	side2	0.576	0.030	0.027	0.004	0.003	0.606	0.603	0.580	0.579	0.609	0.606	0.583	NO
WCDMA Band V	side2	1.071	0.030	0.027	0.004	0.003	1.101	1.098	1.075	1.074	1.104	1.101	1.078	NO
LTE Band 2	side2	0.923	0.030	0.027	0.004	0.003	0.953	0.950	0.927	0.926	0.956	0.953	0.930	NO
LTE Band 4	side2	0.661	0.030	0.027	0.004	0.003	0.691	0.688	0.665	0.664	0.694	0.691	0.668	NO
LTE Band 5	side2	0.452	0.030	0.027	0.004	0.003	0.482	0.479	0.456	0.455	0.485	0.482	0.459	NO
LTE Band 7	side2	1.037	0.030	0.027	0.004	0.003	1.067	1.064	1.041	1.040	1.070	1.067	1.044	NO
LTE Band 12	side2	0.236	0.030	0.027	0.004	0.003	0.266	0.263	0.240	0.239	0.269	0.266	0.243	NO
LTE Band 13	side2	0.283	0.030	0.027	0.004	0.003	0.313	0.310	0.287	0.286	0.316	0.313	0.290	NO
LTE Band 25	side2	1.007	0.030	0.027	0.004	0.003	1.037	1.034	1.011	1.010	1.040	1.037	1.014	NO
LTE Band 26	side2	0.379	0.030	0.027	0.004	0.003	0.409	0.406	0.383	0.382	0.412	0.409	0.386	NO



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9 Equipment list

	Test Platform SPEAG DASY5 Professional									
	Location	Compliance Cer	tification Services	(Kunshan) Inc.						
5	Software Reference	DASY52 52.8.8	(1222); SEMCAD	X 14.6.10(7331)						
			Hardware Refe	rence						
	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	E5182A	MY50142015	2022/08/22	2023/08/21				
\boxtimes	S-Parameter Network Analyzer	Agilent	E5071B	MY42301382	2023/02/20	2024/02/19				
\boxtimes	DAK-3.5 probe	SPEAG	DAK-3.5	1102	N/A	N/A				
\boxtimes	Wireless Communication Test Set	R&S	CMW500	159275	2022/08/22	2023/08/21				
\boxtimes	MXA Signal Analyzer	Keysight	N9020A	MY53420174	2022/08/22	2023/08/21				
\boxtimes	DAE	SPEAG	DAE4	910	2022/07/14	2023/07/13				
\boxtimes	E-field PROBE	SPEAG	EX3DV4	7767	2022/10/28	2023/10/27				
\boxtimes	Dipole	SPEAG	D750V3	1188	2022/03/29	2025/03/28				
\boxtimes	Dipole	SPEAG	D835V2	4d114	2022/03/31	2025/03/30				
\boxtimes	Dipole	SPEAG	D1800V2	2d170	2022/03/31	2025/03/30				
\boxtimes	Dipole	SPEAG	D1900V2	5d136	2022/06/07	2025/06/06				
\boxtimes	Dipole	SPEAG	D2600V2	1158	2022/03/31	2025/03/30				
\boxtimes	Electro Thermometer	Renke	RS-WS-N01- 6J	1032862	2022/04/01	2023/03/31				
\boxtimes	Amplifier	Mini-circuits	ZVE-8G	110405	N/A	N/A				
\boxtimes	Amplifier	Mini-circuits	ZHL-42	QA1331003	N/A	N/A				
	3db ATTENUATOR	MINI	MCL BW- S3W5	0533	N/A	N/A				
\boxtimes	DUMMY PROBE	SPEAG	DP_2	SPDP2001AA	N/A	N/A				
\boxtimes	Dual Directional Coupler	Woken	20W couple	DOM2BHW1A1	N/A	N/A				
\boxtimes	SAM PHANTOM (ELI4 v4.0)	SPEAG	QDOVA001BB	1102	N/A	N/A				
\boxtimes	Twin SAM Phantom	SPEAG	QD000P40CD	1609	N/A	N/A				
\boxtimes	ROBOT	SPEAG	TX60	F10/5E6AA1/A101	N/A	N/A				



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\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.



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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: 2023/05/11

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

System Performance Check-D750

DUT: Dipole 750 MHz D750V3; Type: 1188

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1 Medium parameters used: f = 750 MHz; $\sigma = 0.875$ S/m; $\varepsilon_r = 41.659$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7767; ConvF(10.26, 10.26, 10.26); Calibrated: 2022/10/28;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn910; Calibrated: 2022/07/14

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102

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

System Performance Check at Frequencies Low 1 GHz/Pin=250 mW, dist=15 mm (EX-Probe)/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 2.16 W/kg

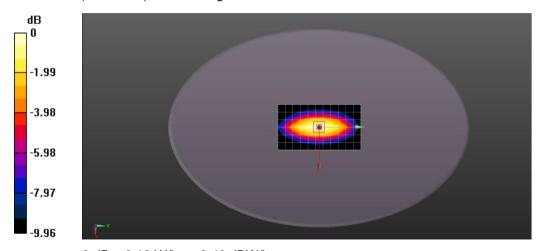
System Performance Check at Frequencies Low 1 GHz/Pin=250 mW, dist=15 mm (EX-Probe)/Zoom Scan

(7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 49.95 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 2.44 W/kg

SAR(1 g) = 2.04 W/kg; SAR(10 g) = 1.39 W/kg Maximum value of SAR (measured) = 2.19 W/kg



0 dB = 2.19 W/kg = 3.40 dBW/kg



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Date: 2023/05/12

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

System Performance Check-D835

DUT: Dipole 835 MHz D835V2; Type: 4d114

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; $\sigma = 0.909$ S/m; $\varepsilon_r = 42.04$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7767; ConvF(10, 10, 10); Calibrated: 2022/10/28;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn910; Calibrated: 2022/07/14

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102

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

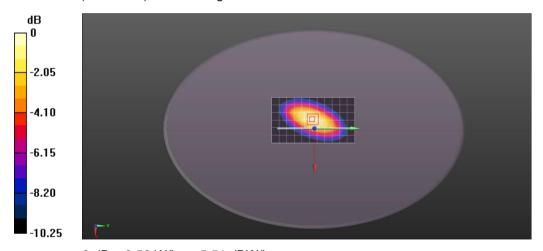
System Performance Check at Frequencies Low 1 GHz/d=15mm, Pin=250 mW, dist=3.0mm (EX-Probe)/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 3.41 W/kg

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 = 63.94 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 4.14 W/kg

SAR(1 g) = 2.43 W/kg; SAR(10 g) = 1.52 W/kg Maximum value of SAR (measured) = 3.56 W/kg



0 dB = 3.56 W/kg = 5.51 dBW/kg



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Date: 2023/05/13

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

System Performance Check-D1800

DUT: Dipole 1800 MHz D1800V2; Type: 2d170

Communication System: UID 10000, CW; Frequency: 1800 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1800 MHz; $\sigma = 1.384 \text{ S/m}$; $\epsilon_r = 40.258$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

• Probe: EX3DV4 - SN7767; ConvF(9.32, 9.32, 9.32); Calibrated: 2022/10/28;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn910; Calibrated: 2022/07/14

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102

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

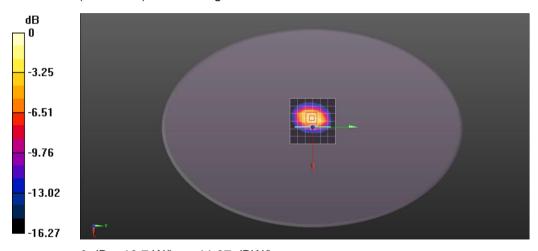
System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (EX-Probe) (23.6 dBm)/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 10.7 W/kg

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 = 100.7 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 17.6 W/kg

SAR(1 g) = 9.71 W/kg; SAR(10 g) = 5.3 W/kg Maximum value of SAR (measured) = 13.7 W/kg



0 dB = 13.7 W/kg = 11.37 dBW/kg



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Date: 2023/05/14

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

System Performance Check-D1900

DUT: Dipole 1900 MHz D1900V2; Type: 5d136

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; σ = 1.389 S/m; ε_r = 40.284; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7767; ConvF(8.91, 8.91, 8.91); Calibrated: 2022/10/28;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn910; Calibrated: 2022/07/14

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102

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

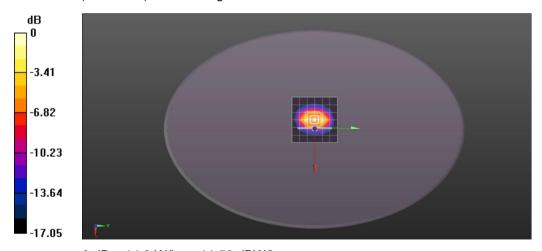
System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 14.3 W/kg

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 = 103.6 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 18.3 W/kg

SAR(1 g) = 9.99 W/kg; SAR(10 g) = 5.38 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: 2023/05/15

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

System Performance Check-D2600

DUT: Dipole 2600 MHz D2600V2; Type: 1158

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2600 MHz; $\sigma = 1.969$ S/m; $\epsilon_r = 37.735$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

• Probe: EX3DV4 - SN7767; ConvF(7.99, 7.99, 7.99); Calibrated: 2022/10/28;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn910; Calibrated: 2022/07/14

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102

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

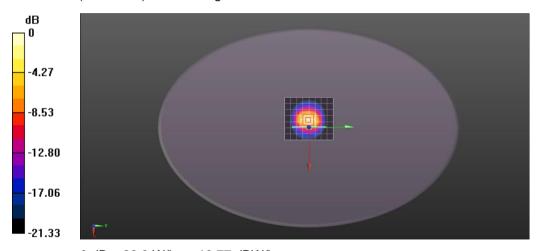
System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 21.1 W/kg

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 = 109.1 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 31.9 W/kg

SAR(1 g) = 14.7 W/kg; SAR(10 g) = 6.52 W/kg Maximum value of SAR (measured) = 23.8 W/kg



0 dB = 23.8 W/kg = 13.77 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: 2023/05/12

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

GSM850 GPRS 3TS Back side Ch251 0mm

DUT: Golf trolley; Type: M7 GPS;

Communication System: UID 0, GPRS/EGPRS 3TX Slots (0); Frequency: 848.8 MHz; Duty Cycle: 1:2.77013

Medium parameters used: f = 849 MHz; $\sigma = 0.911$ S/m; $\varepsilon_r = 41.76$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7767; ConvF(10, 10, 10); Calibrated: 2022/10/28;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn910; Calibrated: 2022/07/14

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102

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

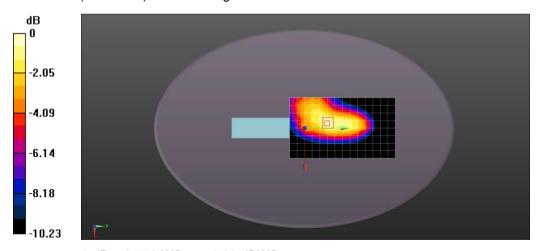
Configuration/Head/Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.534 W/kg

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

Reference Value = 20.71 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.661 W/kg

SAR(1 g) = 0.431 W/kg; SAR(10 g) = 0.295 W/kg Maximum value of SAR (measured) = 0.578 W/kg



0 dB = 0.578 W/kg = -2.38 dBW/kg



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Report No.: KSCR230400061801

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Date: 2023/05/14

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

GSM1900 GPRS 4TS Back side Ch810 0mm

DUT: Golf trolley; Type: M7 GPS;

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

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

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7767; ConvF(8.91, 8.91, 8.91); Calibrated: 2022/10/28;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn910; Calibrated: 2022/07/14

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102

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

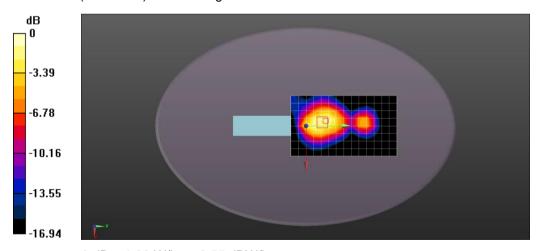
Configuration/Head/Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.43 W/kg

Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.90 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 2.14 W/kg

SAR(1 g) = 1.22 W/kg; SAR(10 g) = 0.748 W/kg Maximum value of SAR (measured) = 1.80 W/kg



0 dB = 1.80 W/kg = 2.55 dBW/kg



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Date: 2023/05/14

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

WCDMA Band 2 RMC side1 Ch9400 0mm

DUT: Golf trolley; Type: M7 GPS;

Communication System: UID 0, WCDMA / UMTS (0); Frequency: 1880 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 40.278$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7767; ConvF(8.91, 8.91, 8.91); Calibrated: 2022/10/28;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn910; Calibrated: 2022/07/14

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102

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

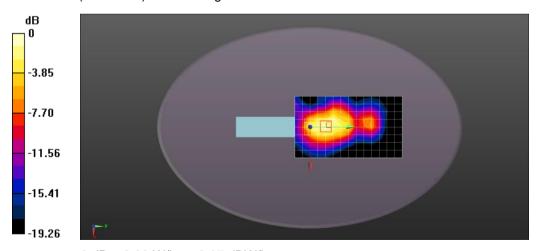
Configuration/Head/Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.80 W/kg

Configuration/Head/Zoom Scan (5x8x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 33.83 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 2.46 W/kg

SAR(1 g) = 1.35 W/kg; SAR(10 g) = 0.792 W/kg Maximum value of SAR (measured) = 2.03 W/kg



0 dB = 2.03 W/kg = 3.07 dBW/kg



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Date: 2023/05/12

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

WCDMA Band 5 RMC side1 Ch4233 0mm

DUT: Golf trolley; Type: M7 GPS;

Communication System: UID 0, WCDMA / UMTS (0); Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used: f = 847 MHz; $\sigma = 0.905$ S/m; $\varepsilon_r = 41.916$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7767; ConvF(10, 10, 10); Calibrated: 2022/10/28;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn910; Calibrated: 2022/07/14

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102

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

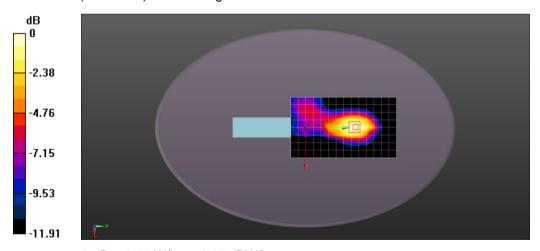
Configuration/Head/Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.50 W/kg

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

Reference Value = 9.518 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.765 W/kg Maximum value of SAR (measured) = 1.47 W/kg



0 dB = 1.47 W/kg = 1.67 dBW/kg



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Date: 2023/05/13

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

WCDMA Band 4 RMC side1 Ch1312 0mm

DUT: Golf trolley; Type: M7 GPS;

Communication System: UID 0, WCDMA / UMTS (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1712.4 MHz; $\sigma = 1.304$ S/m; $\epsilon_r = 40.641$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

• Probe: EX3DV4 - SN7767; ConvF(9.32, 9.32, 9.32); Calibrated: 2022/10/28;

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn910; Calibrated: 2022/07/14

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102

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

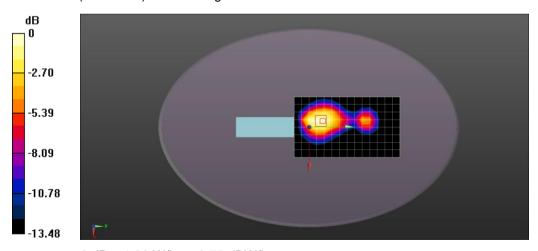
Configuration/Head/Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.18 W/kg

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

Reference Value = 31.75 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.889 W/kg; SAR(10 g) = 0.584 W/kg Maximum value of SAR (measured) = 1.20 W/kg



0 dB = 1.20 W/kg = 0.79 dBW/kg



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Date: 2023/05/14

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

LTE Band 2 20M QPSK 1RB0 side1 Ch18900 0mm

DUT: Golf trolley; Type: M7 GPS;

Communication System: UID 0, FDD_LTE (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 40.278$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7767; ConvF(8.91, 8.91, 8.91); Calibrated: 2022/10/28;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn910; Calibrated: 2022/07/14

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102

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

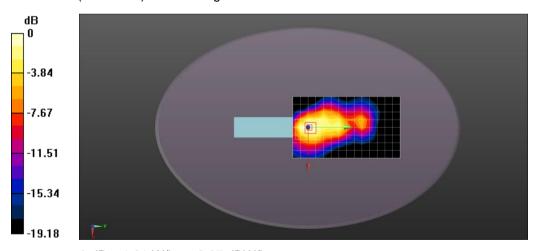
Configuration/Head/Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.72 W/kg

Configuration/Head/Zoom Scan (6x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 35.68 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.89 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.732 W/kg Maximum value of SAR (measured) = 1.61 W/kg



0 dB = 1.61 W/kg = 2.07 dBW/kg



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Date: 2023/05/13

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

LTE Band 4 20M QPSK 1RB0 side1 Ch20050 0mm

DUT: Golf trolley; Type: M7 GPS;

Communication System: UID 0, FDD_LTE (0); Frequency: 1720 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1720 MHz; $\sigma = 1.316$ S/m; $\epsilon_r = 40.633$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

• Probe: EX3DV4 - SN7767; ConvF(9.32, 9.32, 9.32); Calibrated: 2022/10/28;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn910; Calibrated: 2022/07/14

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102

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

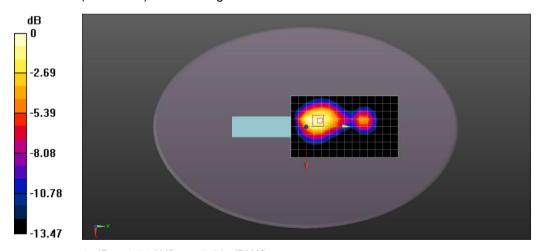
Configuration/Head/Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.20 W/kg

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

Reference Value = 31.79 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.912 W/kg; SAR(10 g) = 0.607 W/kg Maximum value of SAR (measured) = 1.21 W/kg



0 dB = 1.21 W/kg = 0.83 dBW/kg



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Date: 2023/05/12

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

LTE Band 5 10M QPSK 1RB0 side1 Ch20450 0mm

DUT: Golf trolley; Type: M7 GPS;

Communication System: UID 0, FDD_LTE (0); Frequency: 829 MHz;Duty Cycle: 1:1 Medium parameters used: f = 829 MHz; $\sigma = 0.897$ S/m; $\epsilon_r = 42.038$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7767; ConvF(10, 10, 10); Calibrated: 2022/10/28;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn910; Calibrated: 2022/07/14

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102

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

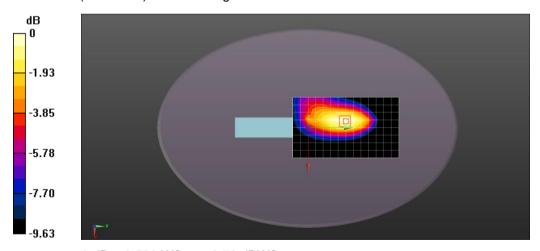
Configuration/Head/Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.524 W/kg

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

Reference Value = 13.68 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.590 W/kg

SAR(1 g) = 0.405 W/kg; SAR(10 g) = 0.277 W/kg Maximum value of SAR (measured) = 0.526 W/kg



0 dB = 0.526 W/kg = -2.79 dBW/kg



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Date: 2023/05/15

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

LTE Band 7 20M QPSK 1RB25 side1 Ch21100 0mm

DUT: Golf trolley; Type: M7 GPS;

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

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

Phantom section: Flat Section

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

DASY5 Configuration:

• Probe: EX3DV4 - SN7767; ConvF(7.99, 7.99, 7.99); Calibrated: 2022/10/28;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn910; Calibrated: 2022/07/14

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102

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

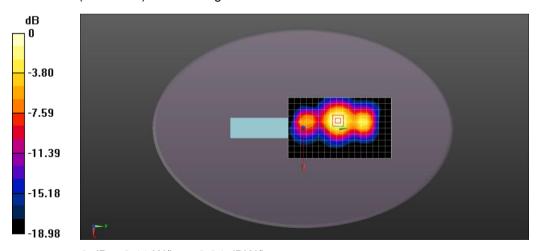
Configuration/Head/Area Scan (11x18x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 2.15 W/kg

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

Reference Value = 13.79 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.54 W/kg

SAR(1 g) = 1.39 W/kg; SAR(10 g) = 0.765 W/kg Maximum value of SAR (measured) = 2.11 W/kg



0 dB = 2.11 W/kg = 3.24 dBW/kg



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Date: 2023/05/11

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

LTE Band 12 10M QPSK 1RB25 side1 Ch23095 0mm

DUT: Golf trolley; Type: M7 GPS;

Communication System: UID 0, FDD LTE (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 707.5 MHz; $\sigma = 0.86 \text{ S/m}$; $\epsilon_r = 42.557$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7767; ConvF(10.26, 10.26, 10.26); Calibrated: 2022/10/28;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn910; Calibrated: 2022/07/14

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102

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

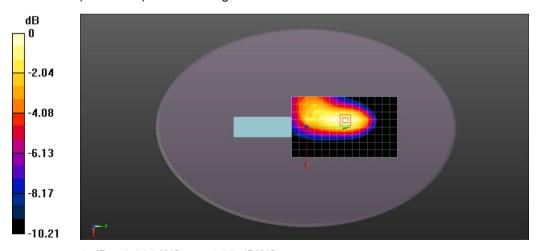
Configuration/Head/Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.322 W/kg

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

Reference Value = 12.59 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.363 W/kg

SAR(1 g) = 0.253 W/kg; SAR(10 g) = 0.174 W/kg Maximum value of SAR (measured) = 0.326 W/kg



0 dB = 0.326 W/kg = -4.87 dBW/kg



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Date: 2023/05/11

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

LTE Band 13 10M QPSK 1RB25 side1 Ch23230 0mm

DUT: Golf trolley; Type: M7 GPS;

Communication System: UID 0, FDD_LTE (0); Frequency: 782 MHz;Duty Cycle: 1:1 Medium parameters used: f = 782 MHz; $\sigma = 0.917$ S/m; $\varepsilon_r = 41.387$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7767; ConvF(10.26, 10.26, 10.26); Calibrated: 2022/10/28;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn910; Calibrated: 2022/07/14

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102

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

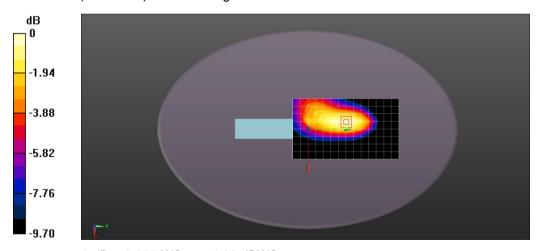
Configuration/Head/Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.357 W/kg

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

Reference Value = 12.19 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.407 W/kg

SAR(1 g) = 0.283 W/kg; SAR(10 g) = 0.195 W/kg Maximum value of SAR (measured) = 0.365 W/kg



0 dB = 0.365 W/kg = -4.38 dBW/kg



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Date: 2023/05/14

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

LTE Band 25 20M QPSK 1RB50 side1 Ch26140 0mm

DUT: Golf trolley; Type: M7 GPS;

Communication System: UID 0, FDD_LTE (0); Frequency: 1860 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1860 MHz; $\sigma = 1.356$ S/m; $\varepsilon_r = 40.419$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7767; ConvF(8.91, 8.91, 8.91); Calibrated: 2022/10/28;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn910; Calibrated: 2022/07/14

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102

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

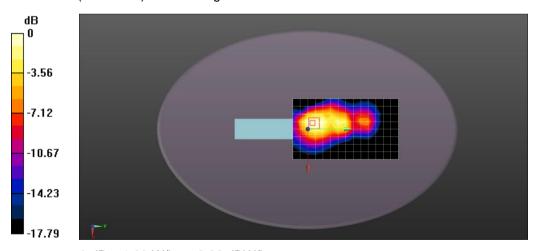
Configuration/Head/Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.74 W/kg

Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.40 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.16 W/kg

SAR(1 g) = 1.26 W/kg; SAR(10 g) = 0.773 W/kg Maximum value of SAR (measured) = 1.69 W/kg



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



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Date: 2023/05/12

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

LTE Band 26 15M QPSK 1RB74 side1 Ch26915 0mm

DUT: Golf trolley; Type: M7 GPS;

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

Medium parameters used (interpolated): f = 836.5 MHz; $\sigma = 0.901 \text{ S/m}$; $\epsilon_r = 42.028$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7767; ConvF(10, 10, 10); Calibrated: 2022/10/28;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn910; Calibrated: 2022/07/14

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102

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

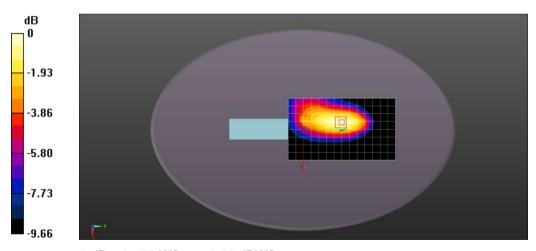
Configuration/Head/Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.473 W/kg

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

Reference Value = 13.29 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.531 W/kg

SAR(1 g) = 0.367 W/kg; SAR(10 g) = 0.254 W/kg



0 dB = 0.473 W/kg = -3.25 dBW/kg



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Appendix C: Calibration certificate

Appendix D: Photographs

- End of the Report -



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