

FCC SAR REPORT

Applicant: TECNO MOBILE LIMITED

Address of Applicant: FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: CG6j

Trade mark: TECNO

FCC ID: 2ADYY-CG6J

Applicable standards: FCC 47 CFR Part 2.1093

Date of Test: 10 Jan., 2021 ~ 22 Jan., 2021

Test Result: Maximum Reported 1-g SAR (W/kg)
Head: 1.173 Body: 0.560 Hotspot: 0.671

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	25 Jan., 2021	Original

Tested by:*Carl Wei***Date:***25 Jan., 2021*

Test Engineer**Reviewed by:***Tanet Wei***Date:***25 Jan., 2021*

Project Engineer

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4 SAR Results Summary

The maximum results of Specific Absorption Rate (SAR) found during test as bellows:
 <Highest Reported standalone SAR Summary>

Exposure Position	Frequency Band	Reported 1-g SAR (W/kg)	Equipment Class	Highest Reported 1-g SAR (W/kg)
Head	GSM 850	1.173	PCE	1.173
	GSM 1900	0.458		
	WCDMA Band V	0.580		
	WCDMA Band II	0.357		
	LTE Band 2	0.231		
	LTE Band 4	0.282		
	LTE Band 5	1.088		
	LTE Band 7	0.195		
	LTE Band 17	0.628		
	LTE Band 38	1.158		
	LTE Band 41	1.119		
	WLAN 2.4 GHz	0.238	DTS	
	WLAN 5.2 GHz	0.200	NII	
	WLAN 5.8 GHz	0.143		
Body (10 mm Gap)	GSM 850	0.317	PCE	0.560
	GSM 1900	0.351		
	WCDMA Band V	0.279		
	WCDMA Band II	0.113		
	LTE Band 2	0.079		
	LTE Band 4	0.096		
	LTE Band 5	0.368		
	LTE Band 7	0.083		
	LTE Band 17	0.138		
	LTE Band 38	0.560		
	LTE Band 41	0.533		
	WLAN 2.4GHz	0.083	DTS	
	WLAN 5.2 GHz	0.034	NII	
	WLAN 5.8 GHz	0.039		
Hotspot (10 mm Gap)	GSM 850	0.469	PCE	0.671
	GSM 1900	0.671		
	WCDMA Band V	0.279		
	WCDMA Band II	0.137		
	LTE Band 2	0.083		
	LTE Band 4	0.120		
	LTE Band 5	0.368		
	LTE Band 7	0.083		
	LTE Band 17	0.138		
	LTE Band 38	0.560		
	LTE Band 41	0.589		
	WLAN 2.4 GHz	0.091	DTS	
	WLAN 5.2 GHz	0.100	NII	
	WLAN 5.8 GHz	0.039		

<Highest Reported simultaneous SAR Summary>

Exposure Position	Frequency Band	Reported 1-g SAR (W/kg)	Equipment Class	Highest Reported Simultaneous Transmission 1-g SAR (W/kg)
Right Tilted	LTE Band 41	1.178	PCE	1.338
	Bluetooth	0.165	DSS	

Note:

1. The highest simultaneous transmission is scalar summation of Reported standalone SAR per FCC KDB 690783 D01 v01r03, and scalar SAR summation of all possible simultaneous transmission scenarios are < 1.6W/kg.
2. This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-2005, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013.

5 General Information

5.1 Client Information

Applicant:	TECNO MOBILE LIMITED
Address of Applicant:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT
Manufacturer:	TECNO MOBILE LIMITED
Address of Manufacturer:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT

5.2 General Description of EUT

Product Name:	Mobile Phone			
Model No.:	CG6j			
Category of device	Portable device			
Operation Frequency:	2G :	GSM850: 824.2~848.8 MHz	PCS 1900: 1850.2~1909.8 MHz	
	3G :	Band II: 1852.4~1907.6 MHz	Band V: 826.4~846.6 MHz	
	4G :	Band 2 :1850MHz~1910MHz	Band 4 :1710MHz~1755MHz	
		Band 5 :824MHz~849MHz	Band 7: 2500MHz~2570MHz	
		Band 17: 704MHz~716MHz	Band 38: 2570MHz~2620MHz	
	Wi-Fi:	2412MHz~2472MHz	5180MHz~5240MHz	
		5725MHz~5850MHz		
Bluetooth: 2402 MHz ~ 2480 MHz				
Modulation technology:	2G:	<input checked="" type="checkbox"/> Voice(GMSK)	<input checked="" type="checkbox"/> GPRS(GMSK)	<input checked="" type="checkbox"/> EGPRS(GMSK, 8PSK)
	3G:	<input checked="" type="checkbox"/> RCM(QPSK)	<input checked="" type="checkbox"/> HSUPA(QPSK)	<input checked="" type="checkbox"/> HSDPA(QPSK,16QAM)
	4G:	<input checked="" type="checkbox"/> QPSK	<input checked="" type="checkbox"/> 16QAM	<input checked="" type="checkbox"/> 64QAM
	Wi-Fi:	<input checked="" type="checkbox"/> 802.11b(DSSS)		<input checked="" type="checkbox"/> 802.11a/g/n/ac (OFDM)
	Bluetooth:	<input checked="" type="checkbox"/> BDR(GFSK)	<input checked="" type="checkbox"/> EDR(π /4-DQPSK, 8DPSK)	<input checked="" type="checkbox"/> LE(GFSK)
Antenna Type:	Internal Antenna			
Antenna Gain:	GSM 850: -1.50 dBi; PCS 1900: -0.50 dBi WCDMA Band V: -1.50 dBi WCDMA Band II: -0.50 dBi; LTE Band 2: -0.50 dBi; LTE Band 4: -0.70 dBi LTE Band 5: -1.50 dBi; LTE Band 7: -0.40 dBi LTE Band 17: -1.90 dBi; LTE Band 38: -0.4 dBi LTE Band 41: -0.4 dBi Bluetooth: 1.20 dBi; 2.4G Wi-Fi: 1.20 dBi; 5G Wi-Fi: -0.90 dBi			
(E)GPRS Class:	(E)GPRS Class: 12			
Dimensions (L*W*H):	165 mm (L)× 76 mm (W)× 8 mm (H)			
Accessories information:	Adapter: Model: U180TSA Input: AC100-240V, 50/60Hz, 0.6A Output: DC 5.0V - 9.0V \Rightarrow 2A, 9.0V - 12.0V \Rightarrow 1.5A		Battery: Rechargeable Li-ion Battery 3.85V/4900mAh	
			Headset: Support headset	

5.3 Maximum RF Output Power

Mode	Average Power (dBm)	
	GSM 850	GSM 1900
GSM (Voice)	33.02	30.42
GPRS (1 TX Slot)	33.01	30.40
GPRS (2 TX Slots)	31.99	29.40
GPRS (3 TX Slots)	29.86	27.41
GPRS (4 TX Slots)	28.75	26.26
EGPRS (1 TX Slot)	27.20	26.57
EGPRS (2 TX Slots)	25.98	25.50
EGPRS (3 TX Slots)	23.53	23.55
EGPRS (4 TX Slots)	22.15	22.67

Mode	Average Power (dBm)	
	WCDMA Band V	WCDMA Band II
AMR 12.2 kbps	23.90	24.23
RMC 12.2 kbps	23.99	24.27
HSDPA Sub-test 1	23.10	23.32
HSDPA Sub-test 2	22.69	22.89
HSDPA Sub-test 3	21.20	21.48
HSDPA Sub-test 4	21.16	21.39
HSUPA Sub-test 1	22.90	23.16
HSUPA Sub-test 2	22.98	23.21
HSUPA Sub-test 3	21.51	21.86
HSUPA Sub-test 4	23.04	23.27
HSUPA Sub-test 5	22.11	22.41

Mode	Average Power (dBm)						
	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 17	LTE Band 38	LTE Band 41
BW/1.4 MHz	23.99	23.98	23.96	/	/	/	/
BW/3.0 MHz	23.98	23.99	23.90	/	/	/	/
BW/5.0 MHz	23.98	23.99	23.80	23.48	23.48	23.32	23.33
BW/10 MHz	23.85	23.79	23.78	23.49	23.49	23.35	23.38
BW/15 MHz	23.78	23.89	/	23.45	/	23.17	23.25
BW/20 MHz	23.95	23.88	/	23.39	/	23.19	23.23

WLAN 2.4 GHz Band Average Power (dBm)				
Mode/Band	b	g	n (HT-20)	n (HT-40)
WLAN 2.4GHz	16.72	14.48	14.36	13.84

WLAN 5.2 GHz Band Average Power (dBm)						
Mode/Band	a	ac20	ac40	ac80	n 20	n 40
WLAN 5.2GHz	9.18	9.00	9.13	9.00	8.98	9.04

WLAN 5.8 GHz Band Average Power (dBm)						
Mode/Band	a	ac20	ac40	ac80	n 20	n 40
WLAN 5.8GHz	12.32	12.26	11.99	12.01	12.27	11.97

Bluetooth Peak Power (dBm)				
Mode/Band	1 Mbps(GFSK)	2 Mbps($\pi/4$ DQPSK)	3 Mbps (8DPSK)	LE (BT 4.0)
Bluetooth	5.84	5.95	5.94	-3.62

5.4 Environment of Test Site

Temperature:	18°C ~25 °C
Humidity:	35%~75% RH
Atmospheric Pressure:	1010 mbar

5.5 Test Sample Plan

Sample Number	Used for Test Items
2#	SAR
<i>Remark: JianYan Testing Group Shenzhen Co., Ltd. is only responsible for the test project data of the above samples, and will keep the above samples for a month.</i>	

5.6 Test Location

JianYan Testing Group Shenzhen Co., Ltd.
 Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.
 Tel: +86-755-23118282, Fax: +86-755-23116366
 Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

6 Introduction

6.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

6.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dU}{dm} \right) = \frac{d}{dt} \left(\frac{dU}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg)

SAR measurement can be either related to the temperature elevation in tissue by

$$SAR = C \left(\frac{\delta T}{\delta t} \right)$$

Where: C is the specific heat capacity, δT is the temperature rise and δt is the exposure duration, or related to the electrical field in the tissue by

$$SAR = \frac{\sigma \cdot E^2}{\rho}$$

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength. However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

7 RF Exposure Limits

7.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

7.2 Controlled Environment

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). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

7.3 RF Exposure Limits

SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

HUMAN EXPOSURE LIMITS		
	UNCONTROLLED ENVIRONMENT <i>General Population</i> (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT <i>Occupational</i> (W/kg) or (mW/g)
SPATIAL PEAK SAR Brain	1.6	8.0
SPATIAL AVERAGE SAR Whole Body	0.08	0.4
SPATIAL PEAK SAR Hands, Feet, Ankles, Wrists	4.0	20

Note:

1. 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.
2. The Spatial Average value of the SAR averaged over the whole body.
3. 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.

8 SAR Measurement System

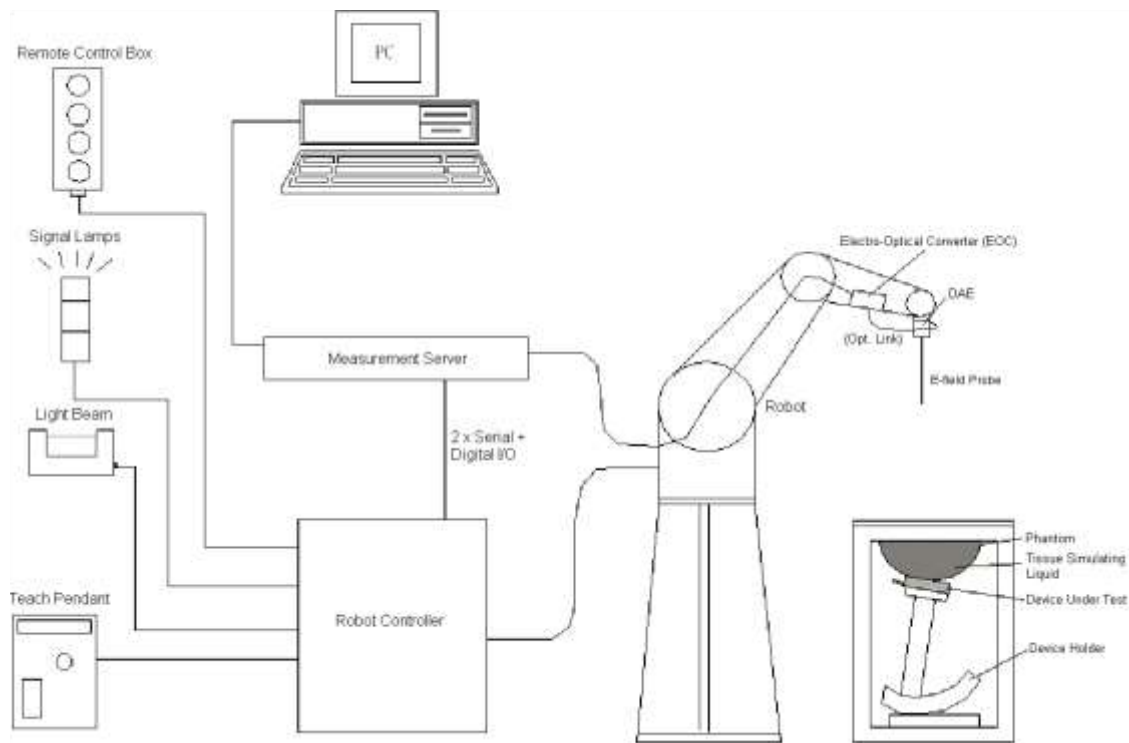


Fig. 8.1 SPEAG DASY System Configurations

The DASY system for performance compliance tests is illustrated above graphically. This system consists of the following items:

- A standard high precision 6-axis robot with controller, a teach pendant and software
- A data acquisition electronic (DAE) attached to the robot arm extension
- A dosimetric probe equipped with an optical surface detector system
- The electro-optical converter (EOC) performs the conversion between optical and electrical signals
- A measurement server performs the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the accuracy of the probe positioning
- A computer operating Windows XP
- DASY software
- Remote control with teach pendant and additional circuitry for robot safety such as warming lamps, etc.
- The SAM twin phantom
- A device holder
- Tissue simulating liquid
- Dipole for evaluating the proper functioning of the system

Component details are described in the following sub-sections.

8.1 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

➤ **E-Field Probe Specification**
<EX3DV4 Probe>


Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency Directivity	10 MHz to 6 GHz; Linearity: ± 0.2 dB ± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (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: 330 mm (Tip: 20mm) Tip diameter: 2.5 mm (Body: 12mm) Typical distance from probe tip to dipole centers: 1 mm	

Fig. 8.2 Photo of E-Field Probe

➤ **E-Field Probe Calibration**

Each probe needs to be calibrated according to a dosimetric assessment procedure with accuracy better than ± 10%. The spherical isotropy shall be evaluated and within ± 0.25 dB. The sensitivity parameters (Norm X, Norm Y and Norm Z), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested. The calibration data can be referred to appendix E of this report.

8.2 Data Acquisition Electronics (DAE)


<p>The Data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock. The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.</p>	
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Fig. 8.3 Photo of DAE

8.3 Robot

The SPEAG DASY system uses the high precision robots (DASY5: TX60L) type from Stäubli SA (France). For the 6-axis controller system, the robot controller version (DASY5: CS8c) from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- High precision (repeatability 0.02 mm)
- High reliability (industrial design)
- Low maintenance costs (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements
- Low ELF interference (motor control fields shielded via the closed metallic construction shields)



Fig. 8.4 Photo of Robot

8.4 Measurement Server

The measurement server is based on a PC/104 CPU board with CPU (DASY 5: 400MHz, Intel Celeron), chip-disk (DASY5: 128 MB), RAM (DASY5: 128 MB). The necessary circuits for communication with the DAE electronic box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY I/O board, which is directly connected to the PC/104 bus of the CPU board. The measurement server performs all the real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operations.



Fig. 8.5 Photo of Server for DASY5

8.5 Light Beam Unit

The light beam switch allows automatic "tooling" of the probe. During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip.


The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.



Fig. 8.6 Photo of Light Beam

8.6 Phantom

<SAM Twin Phantom>

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm	 <p>Fig. 8.7 Photo of SAM Twin Phantom</p>
Filling Volume Dimensions	Approx. 25 liters Length: 1000mm; Width: 500mm; Height: adjustable feet	
Measurement Areas	Left Head, Right Head, Flat phantom	

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

<ELI4 Phantom >

The ELI4 phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30MHz to 6 GHz. ELI4 is fully compatible with the latest draft of the standard IEC 62209-2 and all known tissue simulating liquids.

ELI4 has been optimized regarding its performance and can be integrated into a SPEAG standard phantom table. 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 can be used with the following tissue simulating liquids:

- Water-sugar based liquids can be left permanently in the phantom. Always cover the liquid if the system is not in use; otherwise the parameters will change due to water evaporation.
- DGBE based liquids should be used with care. As DGBE is a softener for most plastics, the liquid should be taken out of the phantom and the phantom should be dried when the system is not in use (desirable at least once a week).
- Do not use other organic solvents without previously testing the phantom resistiveness

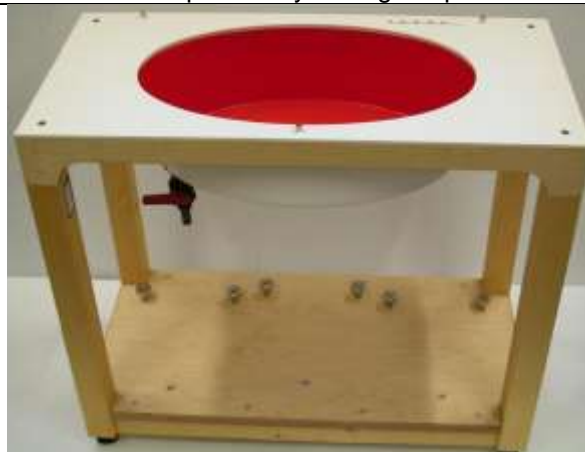


Fig.8.8 Photo of ELI4 Phantom

8.7 Device Holder

<Device Holder for SAM Twin Phantom>

The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of ± 20 %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards. 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 center for both scales is the ear reference point (ERP). Thus the device needs no repositioning when changing the angles. The DASY device holder is constructed of low-low POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



Fig. 8.9 Photo of Device Holder

8.8 Data storage and Evaluation

➤ Data Storage

The DASY software stores the assessed data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all the necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files. The post-processing software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verifications of the complete software setup even after the measurement and allows correction of erroneous parameter settings. For example, if a measurement has been performed with an incorrect 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 (e.g., [V/m], [mW/g]). Some of these units are not available in certain situations or give meaningless results, e.g., a SAR-output in a non-lose media, will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

➤ Data Evaluation

The DASY post-processing software (SEMCAD) 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	Norm _i , a _{i0} , a _{i1} , a _{i2}
	- Conversion	ConvF _i
	- Diode compression point	dcp _i
Device Parameters:	- Frequency	f
	- Crest	cf
Media Parameters:	- Conductivity	σ
	- Density	ρ

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

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power.

The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$$

With V_i = compensated signal of channel i, (i = x, y, z)
 U_i = input signal of channel i, (i = x, y, z)
 cf = crest factor of exciting field (DASY parameter)
 dcp_i = diode compression point (DASY parameter)

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

$$\text{E- Field Probes: } E_i = \sqrt{\frac{v_i}{\text{Norm}_i \cdot \text{ConvF}}}$$

$$\text{H-Field Probes: } H_i = \sqrt{V_i} \cdot \frac{a_{i0} + a_{i1}f + a_{i2}f^2}{f}$$

With V_i = compensated signal of channel i, (i = x, y, z)
 Norm_i = sensor sensitivity of channel i, (i = x, y, z), $\mu\text{V}/(\text{V/m})^2$
 ConvF = sensitivity enhancement in solution
 a_{ij} = sensor sensitivity factors for H-field probes
 f = carrier frequency (GHz)
 E_i = electric field strength of channel i in V/m
 H_i = magnetic field strength of channel i in A/m

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

$$E_{tot} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$

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

$$SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1000}$$

With SAR = local specific absorption rate in mW/g
 E_{tot} = total field strength in V/m
 σ = conductivity in (mho/m) or (Siemens/m)
 ρ = equipment tissue density in g/cm^3

Note that the density is set to 1, to account for actual head tissue density rather than the density of the tissue simulating liquid.

8.9 Test Equipment List

Manufacturer	Equipment Description	Model	S/N	Cal. Information	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1118	05.28.2020	05.27.2023
SPEAG	835MHz System Validation Kit	D835V2	4d154	06.11.2019	06.10.2022
MVG	COMOSAR 1800 MHz REFERENCE DIPOLE	SID1800	SN 09/15 DIP 1G800-360	02.28.2018	02.27.2021
SPEAG	1900MHz System Validation Kit	D1900V2	5d175	06.11.2019	06.10.2022
SPEAG	2450MHz System Validation Kit	D2450V2	910	06.10.2019	06.09.2022
SPEAG	2600MHz System Validation Kit	D2600V2	1114	11.05.2018	11.04.2021
SPEAG	5000MHz System Validation Kit	D5GHzV2	1182	02.21.2018	02.20.2021
SPEAG	Data Acquisition Electronics	DAE4	1373	07.27.2020	07.26.2021
SPEAG	Dosimetric E-Field Probe	EX3DV4	3924	09.23.2020	09.22.2021
SPEAG	DASY 52 Measurement Software	DASY 52	Version: 52.8.8.1222	N.C.R	N.C.R
SPEAG	DASY 52 File Conversion Software	SEMCAD X	Version: 14.6.10 (7331)	N.C.R	N.C.R
SPEAG	Phantom	Twin Phantom	1765	N.C.R	N.C.R
SPEAG	Phantom	ELI V5.0	1208	N.C.R	N.C.R
SPEAG	Phone Positioner	N/A	N/A	N.C.R	N.C.R
Stäubli	Robot	TX60L	F13/5P6VB1/A/01	N.C.R	N.C.R
Anritsu	Universal Radio Communication Analyzer	MT8820C	6201060814	03.18.2020	03.17.2021
R&S	Universal Radio Communication Tester	CMU200	113097	03.18.2020	03.17.2021
HP	Network Analyzer	8753D	3410A06291	06.18.2020	06.17.2021
Agilent	Spectrum Analyzer	ESRP7	101070	03.18.2020	03.17.2021
R&S	Spectrum Analyzer	FSP30	101454	03.18.2020	03.17.2021
R&S	Signal Generator	N5182A	MY49060014	11.18.2020	11.17.2021
Huber Suhner	RF Cable	SUCOFLEX	12341	See Note 3	
Huber Suhner	RF Cable	SUCOFLEX	17268	See Note 3	
Huber Suhner	RF Cable	SUCOFLEX	2080	See Note 3	
Weinschel	Attenuator	23-3-34	BL5513	See Note 3	
Anritsu	Directional Coupler	MP654A	100217491	See Note 3	
SPEAG	Dielectric Assessment Kit	3.5 Probe	1119	See Note 4	
SPEAG	DAK Measurement Software	DAK	Version: DAK 3.5	N.C.R	
Mini-circuits	Low Noise Amplifier	Power amplifier	LNA-00500200-2515	See Note 5	

Note:

- The calibration certificate of DASY can be referred to appendix C of this report.
- Referring to KDB 865664 D01v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
- The Insertion Loss calibration of Dual Directional Coupler and Attenuator were characterized via the network analyzer and compensated during system check.
- The dielectric probe kit was calibrated via the network analyzer, with the specified procedure (calibrated in pure water) and calibration kit (standard) short circuit, before the dielectric measurement. The specific procedure and calibration kit are provided by Speag.
- In system check we need to monitor the level on the spectrum analyzer, and adjust the power amplifier level to have precise power level to the dipole; the measured SAR will be normalized to 1 W input power according to the ratio of 1 W to the input power to the dipole. For system check, the calibration of the power amplifier is deemed not critically required for correct measurement; the spectrum analyzer is critical and we do have calibration for it
- Attenuator insertion loss is calibrated by the network Analyzer, which the calibration is valid, before system check.
- N.C.R means No Calibration Requirement.

9 Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 9.1, for body SAR testing, the liquid height from the center of the flat phantom to liquid top surface is larger than 15 cm, which is shown in Fig. 9.2.

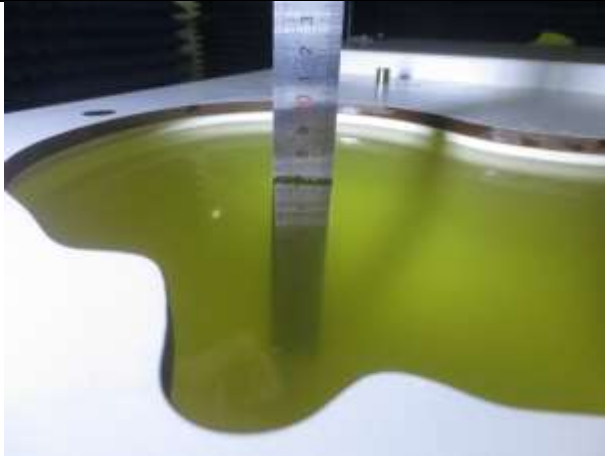


Fig. 9.1 Photo of Liquid Height for Head SAR (700MHz~1000MHz)(depth>15cm)

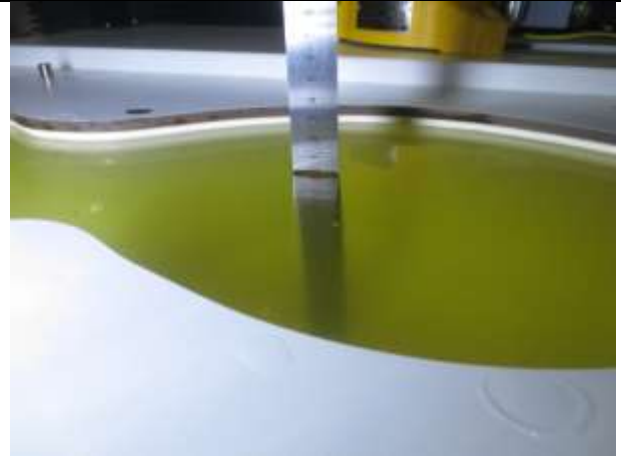


Fig. 9.2 Photo of Liquid Height for Body SAR (700MHz~1000MHz)(depth>15cm)

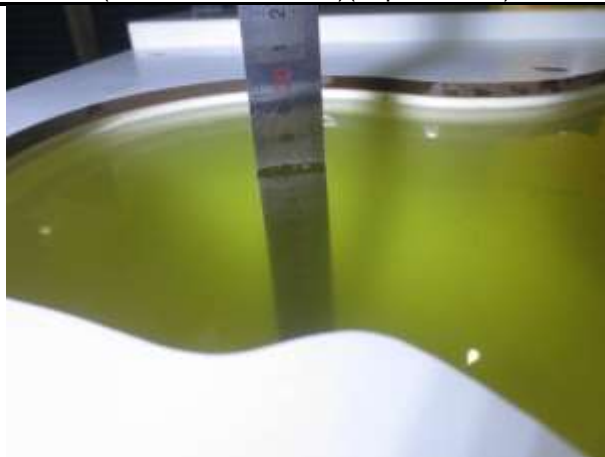


Fig. 9.3 Photo of Liquid Height for Head SAR (1700MHz~2000MHz)(depth>15cm)

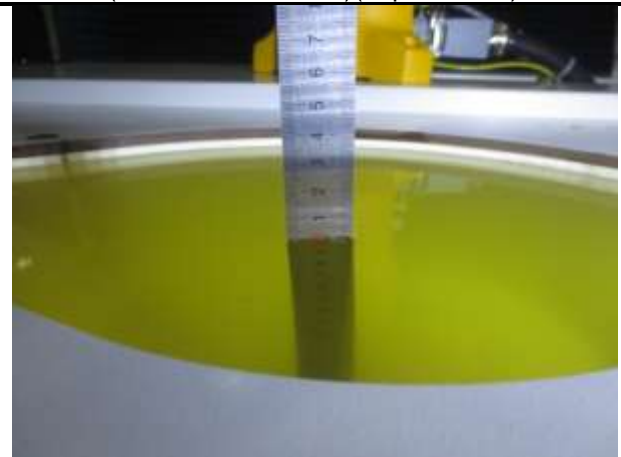


Fig. 9.4 Photo of Liquid Height for Body SAR (1700MHz~2000MHz)(depth>15cm)

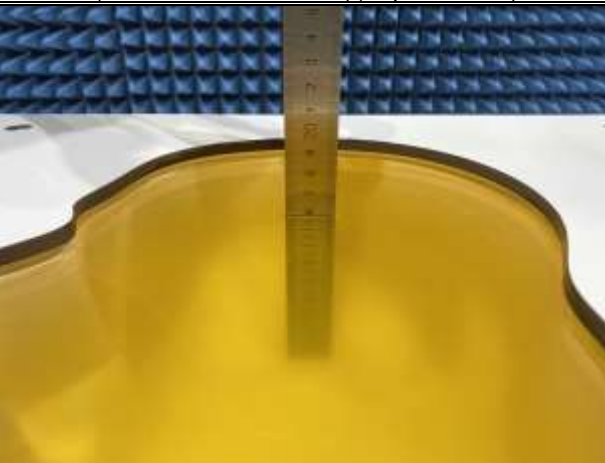


Fig. 9.5 Photo of Liquid Height for Head SAR (2000MHz~2600MHz)(depth>15cm)

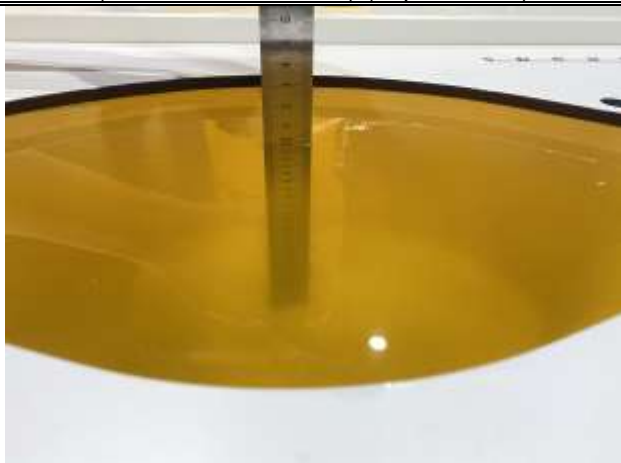


Fig. 9.6 Photo of Liquid Height for Body SAR (2000MHz~2600MHz)(depth>15cm)



Fig. 9.7 Photo of Liquid Height for Head SAR (5200MHz~5800MHz) (depth>15cm)



Fig. 9.8 Photo of Liquid Height for Body SAR (5200MHz~5800MHz) (depth>15cm)

The relative permittivity and conductivity of the tissue material should be within $\pm 5\%$ of the values given in the table below recommended by the FCC OET 65 supplement C and RSS 102 Issue 5.

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

(ϵ_r = relative permittivity, σ = conductivity and $\rho = 1000 \text{ kg/m}^3$)

The dielectric parameters of liquids were verified prior to the SAR evaluation using a Speag Dielectric Probe Kit and an Agilent Network Analyzer.

The following table shows the measuring results for simulating liquid.

Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target(σ)	Permittivity Target(ϵ_r)	Delta (σ)%	Delta (ϵ_r)%	Limit (%)	Date (mm/dd/yy)
750	22.1	0.87	42.21	0.89	41.9	-2.25	0.74	±5	01.11.2021
835	22.1	0.89	41.83	0.90	41.5	-1.11	0.80	±5	01.11.2021
1800	21.8	1.38	40.36	1.40	40.0	-1.43	0.90	±5	01.21.2021
1900	21.8	1.41	39.91	1.40	40.0	0.71	-0.23	±5	01.21.2021
2450	22.0	1.82	38.69	1.80	39.2	1.11	-1.30	±5	01.09.2021
2600	22.0	2.01	38.11	1.96	39.0	2.55	-2.28	±5	01.09.2021
5200	21.2	4.78	35.64	4.67	35.96	2.36	-0.89	±5	01.19.2021
5800	21.2	5.31	34.88	5.27	35.3	0.76	-1.19	±5	01.19.2021

10 SAR System Verification

Each DASY system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the DASY software, enable the user to conduct the system performance check and system validation. System validation kit includes a dipole, tripod holder to fix it underneath the flat phantom and a corresponding distance holder.

➤ Purpose of System Performance check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

➤ System Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:

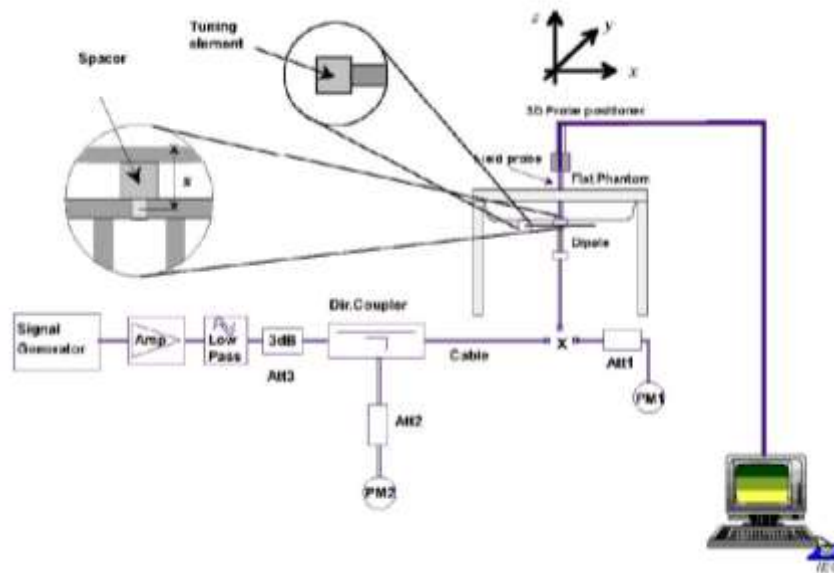


Fig.10.1 System Verification Setup Diagram



Fig.10.2 Photo of Dipole setup

➤

➤ **System Verification Results**

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10%. The table as below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix C of this report.

Date (mm/dd/yy)	Frequency (MHz)	Power fed onto dipole (mW)	Measured 1g SAR (W/kg)	Normalized to 1W 1g SAR (W/kg)	1W Target 1g SAR (W/kg)	Deviation (%)
01.11.2021	750	80	0.671	8.39	8.37	0.96
01.11.2021	835	80	0.753	9.41	9.49	-0.84
01.21.2021	1800	40	1.56	1.56	38.76	0.62
01.21.2021	1900	40	1.62	1.62	39.4	2.79
01.09.2021	2450	40	2.12	53.00	52.6	0.76
01.09.2021	2600	40	2.31	57.75	56.3	2.58
01.19.2021	5200	80	6.36	79.50	79.90	-0.50
01.19.2021	5800	80	6.28	78.50	79.40	-1.13

11 EUT Testing Position

This EUT was tested in nine different positions. They are right cheek/right tilted/left cheek/left tilted for head, Front/Back/Right Side/Top Side of the EUT with phantom 10 mm gap, as illustrated below, please refer to Appendix B for the test setup photos.

11.1 Handset Reference Points

- The vertical centreline passes through two points on the front side of the handset – the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the bottom of the handset.
- The horizontal line is perpendicular to the vertical centreline and passes the center of the acoustic output. The horizontal line is also tangential to the handset at point A.
- The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centreline is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



Fig.11.1 Illustration for Front, Back and Side of SAM Phantom

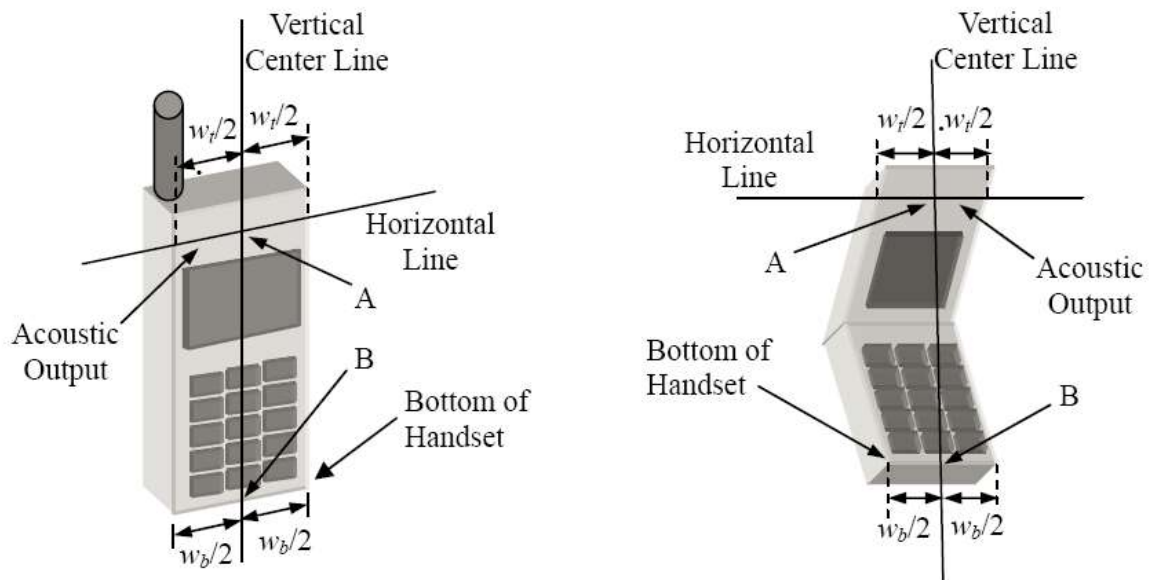


Fig. 11.2 Illustration for Handset Vertical and Horizontal Reference Lines

11.2 Positioning for Cheek / Touch

- To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost (see below figure)



Fig. 11.3 Illustration for Cheek Position

11.3 Positioning for Ear / 15° Tilt

- To position the device in the “cheek” position described above.
- While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost (see figure below).



Fig.11.4 Illustration for Tilted Position

11.4 SAR Evaluations near the Mouth/Jaw Regions of the SAM Phantom

Antennas located near the bottom of a phone may require SAR measurements around the mouth and jaw regions of the SAM head phantom. This typically applies to clam-shell style phones that are generally longer in the unfolded normal use positions or to certain older style long rectangular phones.

Under these circumstances, the following procedures apply, adopted from the FCC guidance on SAR handsets document FCC KDB Publication 648474 D04v01r03. The SAR required in these regions of SAM should be measured using a flat phantom. The phone should be positioned with a separation distance of 4 mm between the ear reference point (ERP) and the outer surface of the flat phantom shell. While maintaining this distance at the ERP location, the low (bottom) edge of the phone should be lowered from the phantom to establish the same separation distance between the peak SAR locations identified by the truncated partial SAR distribution measured with the SAM phantom. The distance from the peak SAR location to the phone is determined by the straight line passing perpendicularly through the phantom surface. When it is not feasible to maintain 4 mm separation at the ERP while also establishing the required separation at the peak SAR location, the top edge of the phone will be allowed to touch the phantom with a separation < 4 mm at the ERP. The phone should not be tilted to the left or right while placed in this inclined position to the flat phantom.

11.5 Body Worn Accessory Configurations

- To position the device parallel to the phantom surface with either keypad up or down.
- To adjust the device parallel to the flat phantom.
- To adjust the distance between the device surface and the flat phantom to 10 mm or holster surface and the flat phantom to 0 mm.

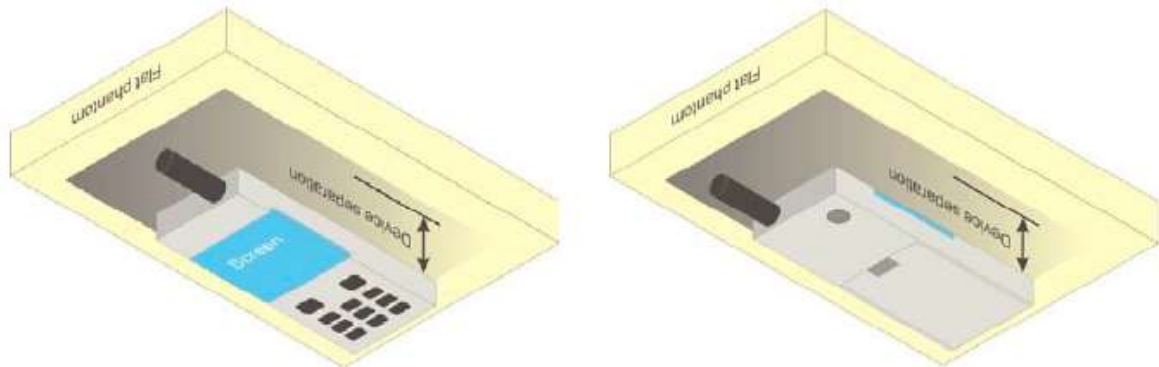


Fig.11.5 Illustration for Body Worn Position

11.6 Wireless Router (Hotspot) Configurations

Some battery-operated handsets have the capability to transmit and receive internet connectivity through simultaneous transmission of WIFI in conjunction with a separate licensed transmitter. The FCC has provided guidance in KDB Publication 941225 D06 where SAR test considerations for handsets ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) are based on a composite test separation distance of 10 mm from the front, back and edges of the device with antennas 2.5 cm or closer to the edge of the device, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. Therefore, SAR must be evaluated for each frequency transmission and mode separately and summed with the WIFI transmitter according to KDB 648474 publication procedures. The “Portable Hotspot” feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.

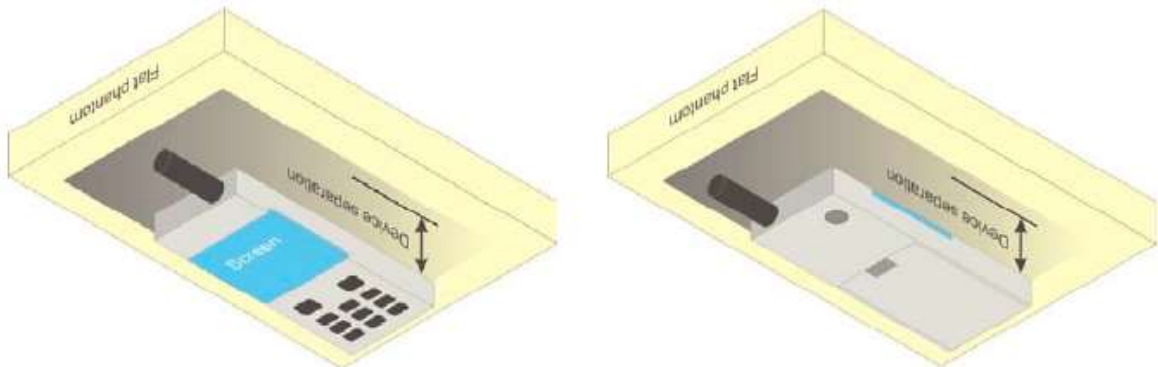


Fig.11.6 Illustration for Hotspot Position

12 Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

- For WWAN power measurement, use base station simulator to configure EUT WWAN transition in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.
- Read the WWAN RF power level from the base station simulator.
- For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band.
- Connect EUT RF port through RF cable to the power meter or spectrum analyzer, and measure WLAN/BT output power.

<Conducted power measurement>

- Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
- Place the EUT in positions as Appendix B demonstrates.
- Set scan area, grid size and other setting on the DASY software.
- Measure SAR results for the highest power channel on each testing position.
- Find out the largest SAR result on these testing positions of each band.
- Measure SAR results for other channels in worst SAR testing position if the Reported SAR or highest power channel is larger than 0.8 W/kg.

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- Power reference measurement
- Area scan
- Zoom scan
- Power drift measurement

12.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a “cube” measurement. The measured volume must include the 1g and 10 g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- Extraction of the measured data (grid and values) from the Zoom Scan.
- Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters).
- Generation of a high-resolution mesh within the measured volume.
- Interpolation of all measured values from the measurement grid to the high-resolution grid
- Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- Calculation of the averaged SAR within masses of 1g and 10g.

12.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurement are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

12.3 Area & Zoom Scan Procedures

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r04 quoted below.

		≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location		$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{Area}, \Delta y_{Area}$		≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: $\Delta x_{Zoom}, \Delta y_{Zoom}$		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm
		$\Delta z_{Zoom}(n>1)$: 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
<p>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.</p> <p>* When zoom scan is required and the <u>reported</u> SAR from the <u>area scan based 1-g SAR estimation</u> 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.</p>			

12.4 Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD post-processor scan combine and subsequently superpose these measurement data to calculating the multiband SAR.

12.5 SAR Averaged Methods

In DASY, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1g and 10g cubes, the extrapolation distance should not be larger than 5 mm.

12.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASY measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

13 Conducted RF Output Power

13.1 GSM Conducted Power

Band: GSM 850 Channel	Burst Average Power (dBm)			Frame-Average Power(dBm)		
	128	190	251	128	190	251
Frequency (MHz)	824.2	836.6	848.8	824.2	836.6	848.8
GSM (GMSK, Voice)	32.89	32.96	33.02	23.86	23.93	23.99
GPRS (GMSK, 1 TX slot)	32.87	32.95	33.01	23.84	23.92	23.98
GPRS (GMSK, 2 TX slots)	31.83	31.89	31.99	25.81	25.87	25.97
GPRS (GMSK, 3 TX slots)	29.76	29.82	29.86	25.50	25.56	25.60
GPRS (GMSK, 4 TX slots)	28.61	28.75	28.71	25.60	25.74	25.70
EGPRS (8PSK, 1 TX slot)	27.20	27.10	27.12	18.17	18.07	18.09
EGPRS (8PSK, 2 TX slots)	25.98	25.86	25.77	19.96	19.84	19.75
EGPRS (8PSK, 3 TX slots)	23.53	23.38	23.24	19.27	19.12	18.98
EGPRS (8PSK, 4 TX slots)	22.15	22.02	21.96	19.14	19.01	18.95

Remark:

- The frame-averaged power is linearly reported the maximum burst averaged power over 8 time slots. The calculated method are shown as below:
 The duty cycle “x” of different time slots as below:
 1 TX slot is 1/8, 2 TX slots is 2/8, 3 TX slots is 3/8 and 4 TX slots is 4/8
 Based on the calculation formula:
 Frame-averaged power = Burst averaged power + 10 log (x)
 So,
 Frame-averaged power (1 TX slot) = Burst averaged power (1 TX slot)– 9.03
 Frame-averaged power (2 TX slots) = Burst averaged power (2 TX slots)– 6.02
 Frame-averaged power (3 TX slots) = Burst averaged power (3 TX slots)– 4.26
 Frame-averaged power (4 TX slots) = Burst averaged power (4 TX slots) – 3.01
- CS1 coding scheme was used in GPRS conducted power measurements and SAR testing, MCS5 coding scheme was used in EGPRS conducted power measurements and SAR testing (if necessary).

Note:

- For Head SAR testing, GSM Voice mode should be evaluated, therefore the EUT was set in GSM 850 Voice mode.
- For Body worn SAR testing, GSM Voice mode should be evaluated, therefore the EUT was set in GSM 850 Voice mode.
- For Hotspot mode SAR testing, GPRS and EGPRS mode should be evaluated, therefore the EUT was set in GPRS 2 TX slots mode due to the highest frame-averaged power.
- For GPRS multi time slots SAR measurement, when the measured maximum output power levels are within 0.25 dB of each other, test the configuration with the most number of time slots.
- Per KDB447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
- The EUT do not support DTM and VoIP function.

Band: PCS 1900 Channel	Burst Average Power (dBm)			Frame-Average Power(dBm)		
	512	661	810	512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8	1850.2	1880.0	1909.8
GSM (GMSK, Voice)	30.34	30.41	30.42	21.31	21.38	21.39
GPRS (GMSK, 1 TX slot)	30.32	30.39	30.40	21.29	21.36	21.37
GPRS (GMSK, 2 TX slots)	29.33	29.40	29.40	23.31	23.38	23.38
GPRS (GMSK, 3 TX slots)	27.31	27.36	27.41	23.05	23.10	23.15
GPRS (GMSK, 4 TX slots)	26.17	26.26	26.24	23.16	23.25	23.23
EGPRS (8PSK, 1 TX slot)	26.57	26.48	26.42	17.54	17.45	17.39
EGPRS (8PSK, 2 TX slots)	25.46	25.40	25.50	19.44	19.38	19.48
EGPRS (8PSK, 3 TX slots)	23.54	23.40	23.55	19.28	19.14	19.29
EGPRS (8PSK, 4 TX slots)	22.63	22.52	22.67	19.62	19.51	19.66

Remark:

3. The frame-averaged power is linearly reported the maximum burst averaged power over 8 time slots. The calculated method are shown as below:
 The duty cycle "x" of different time slots as below:
 1 TX slot is 1/8, 2 TX slots is 2/8, 3 TX slots is 3/8 and 4 TX slots is 4/8
 Based on the calculation formula:
 Frame-averaged power = Burst averaged power + 10 log (x)
 So,
 Frame-averaged power (1 TX slot) = Burst averaged power (1 TX slot)– 9.03
 Frame-averaged power (2 TX slots) = Burst averaged power (2 TX slots)– 6.02
 Frame-averaged power (3 TX slots) = Burst averaged power (3 TX slots)– 4.26
 Frame-averaged power (4 TX slots) = Burst averaged power (4 TX slots) – 3.01
4. CS1 coding scheme was used in GPRS conducted power measurements and SAR testing, MCS5 coding scheme was used in EGPRS conducted power measurements and SAR testing (if necessary).

Note:

- For Head SAR testing, GSM Voice mode should be evaluated, therefore the EUT was set in GSM 1900 Voice mode.
- For Body worn SAR testing, GSM Voice mode should be evaluated, therefore the EUT was set in GSM Voice 1900 mode.
- For Hotspot mode SAR testing, GPRS and EGPRS mode should be evaluated, therefore the EUT was set in GPRS 2 TX slots mode due to the highest frame-averaged power.
- Per KDB447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
- The EUT do not support DTM and VoIP function.

13.2 WCDMA Conducted Power

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

HSDPA Setup Configuration:

- a. The EUT was connected to Base Station Rohde & Schwarz CMU200 referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors (β_c and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - iii. Set RMC 12.2kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters
 - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

Table 1

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

Note 1: $\Delta_{ACK}, \Delta_{NACK}$ and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$
 Note 2: CM = 1 for $\beta_c/\beta_d = 12/15, \beta_{hs}/\beta_c = 24/15$.
 Note 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

HSDPA Sub-test setup configuration

HSUPA Setup Configuration:

- a. The EUT was connected to Base Station Rohde & Schwarz CMU200 referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting * :
 - i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
 - iii. Set Cell Power = -86 dBm
 - iv. Set Channel Type = 12.2k + HSPA
 - v. Set UE Target Power
 - vi. Power Ctrl Mode= Alternating bits
 - vii. Set and observe the E-TFCI
 - viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

Table 2

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM ⁽²⁾ (dB)	MPR (dB)	AG ⁽⁴⁾ Index	E-TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	15/15 ⁽⁴⁾	30/15	24/15	134/15	4	1	1.0	0.0	21	81

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

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

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled 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 signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

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

Note 6: β_{ed} cannot be set directly; it is set by Absolute Grant Value.

HSUPA Sub-test setup configuration

WCDMA Conducted Power:

WCDMA Average power (dBm)			
Band	WCDMA Band V		
Channel	4132	4183	4233
Frequency (MHz)	826.4	836.6	846.6
AMR 12.2 kbps	23.72	23.83	23.90
RMC 12.2 kbps	23.74	23.89	23.99
HSDPA Sub-test 1	22.79	22.95	23.10
HSDPA Sub-test 2	22.39	22.53	22.69
HSDPA Sub-test 3	20.83	20.97	21.20
HSDPA Sub-test 4	20.84	20.98	21.16
HSUPA Sub-test 1	22.71	22.80	22.90
HSUPA Sub-test 2	22.70	22.86	22.98
HSUPA Sub-test 3	21.27	21.41	21.51
HSUPA Sub-test 4	22.74	22.91	23.04
HSUPA Sub-test 5	21.84	21.96	22.11

WCDMA Average power (dBm)			
Band	WCDMA Band II		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
AMR 12.2 kbps	24.12	24.08	24.23
RMC 12.2 kbps	24.18	24.12	24.27
HSDPA Sub-test 1	23.19	23.18	23.32
HSDPA Sub-test 2	22.79	22.73	22.89
HSDPA Sub-test 3	21.32	21.21	21.48
HSDPA Sub-test 4	21.19	21.15	21.39
HSUPA Sub-test 1	23.11	23.10	23.16
HSUPA Sub-test 2	23.15	23.11	23.21
HSUPA Sub-test 3	21.72	21.67	21.86
HSUPA Sub-test 4	23.22	23.16	23.27
HSUPA Sub-test 5	22.31	22.27	22.41

Note:

1. Applying the subtest setup in Table C.11.1.3 of 3GPP TS 34.121-1
2. Per KDB 941225 D01, RMC 12.2kbps mode is used to evaluate SAR due the highest output power. If AMR 12.2 kbps power is < 0.25dB higher than RMC 12.2kbps, SAR tests with AMR 12.2 kbps can be excluded.
3. AMR, HSDPA RF power will not be larger than RMC 12.2kbps, detailed information is included in Tune-up Procure exhibit.

13.3 LTE Conducted Power

13.3.1 Largest channel bandwidth standalone SAR test requirements

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 among 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.⁸ 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.

QPSK with 50% RB allocation

The procedures required for 1 RB allocation in section 4.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.⁹

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 sections 4.2.1 and 4.2.2 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.

Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 4.2.1, 5.2.2 and 4.2.3 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.

13.3.2 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 4.2 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. The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth. For example, 50 RB in 10 MHz channel bandwidth does not apply to 5 MHz channel bandwidth; therefore, this cannot be tested in the smaller channel bandwidth. However, 50% RB allocation in 10 MHz channel bandwidth is equivalent to 100% RB allocation in 5 MHz channel bandwidth; therefore, these are the equivalent configurations to be compared to determine the specific channel and configuration in the smaller channel bandwidth that need SAR testing.

13.3.3 TDD LTE configuration setup for SAR measurement

According to KDB 941225 D05v02r03 and April 2013 TCB workshop slides, SAR must be tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

- see 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- “special subframe S” contains both uplink and downlink transmissions and must be taken into consideration to determine the transmission duty factor
 - according to the worst case uplink and downlink cyclic prefix requirements for UpPTS to determine the highest SAR test duty factor

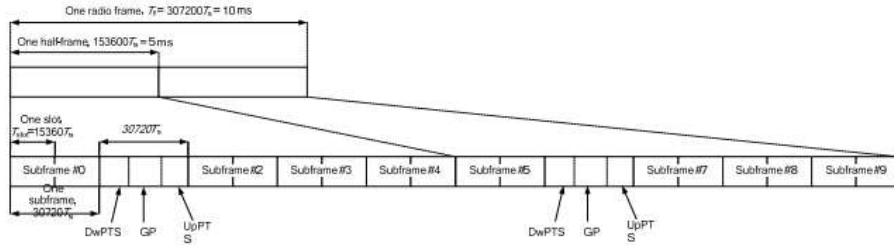


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity)

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

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$		
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-		
9	$13168 \cdot T_s$			-		

Per 3GPP 36.211 section 4.2, each radio frame of length $T_f=37200 \cdot T_s = 10$ ms consists of two half-frames of length $153600 \cdot T_s = 5$ ms each. Each half-frame consists of five subframes of length $30720 \cdot T_s = 1$ ms. So, the uplink duty factor in special subframe as below:

Special Subframe configuration	Normal cyclic prefix in downlink		Extended cyclic prefix in downlink	
	Duty factor of Uplink		Duty factor of Uplink	
	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	7.14%	8.33%	7.14%	8.33%
1	7.14%	8.33%	7.14%	8.33%
2	7.14%	8.33%	7.14%	8.33%
3	7.14%	8.33%	7.14%	8.33%
4	7.14%	8.33%	14.27%	16.67%
5	14.27%	16.67%	14.27%	16.67%
6	14.27%	16.67%	14.27%	16.67%
7	14.27%	16.67%	14.27%	16.67%
8	14.27%	16.67%	/	/
9	14.27%	16.67%	/	/

Table 4.2-2: Uplink-downlink configurations

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

According to above table:

1. The highest duty factor is configuration 0;
2. The duty factor of uplink in one half-frame with normal cyclic prefix is: $(3\text{ms} + 0.143\text{ms})/5\text{ms}=62.86\%$;
3. The duty factor of uplink in one half-frame with extended cyclic prefix is: $(3\text{ms} + 0.167\text{ms})/5\text{ms}=63.34\%$;
4. For purpose to get the worst case SAR test duty factor, the duty factor of normal cyclic prefix in uplink scaled-up to the extended cyclic prefix in uplink, the scaling factor is $63.34\%/62.86\%=1.008$, and the scaling factor will be taken into the final measured SAR.

LTE Band 2 part

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18607	18900	19193
					1850.7MHz	1880.0MHz	1909.3MHz
Band 2	1.4	QPSK	1	0	23.93	23.85	23.99
			1	2	23.82	23.98	23.85
			1	5	23.83	23.86	23.87
			3	0	23.10	23.12	23.06
			3	1	23.09	23.08	23.05
			3	2	23.11	23.07	23.13
			6	0	23.06	23.02	23.01
		16QAM	1	0	23.18	23.11	23.16
			1	2	23.22	23.20	23.15
			1	5	23.10	23.08	23.01
			3	0	22.20	22.32	22.35
			3	1	22.25	22.34	22.41
			3	2	22.28	22.27	22.31
			6	0	22.22	22.25	22.26

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18615	18900	19185
					1851.5MHz	1880.0MHz	1908.5MHz
Band 2	3	QPSK	1	0	23.92	23.96	23.97
			1	7	23.96	23.97	23.98
			1	14	23.92	23.95	23.96
			8	0	23.05	23.02	23.04
			8	4	23.04	23.07	23.05
			8	7	23.02	23.01	23.02
			15	0	22.95	22.92	22.96
		16QAM	1	0	23.03	23.02	23.06
			1	7	23.05	23.09	23.05
			1	14	23.09	23.07	23.03
			8	0	22.01	22.05	22.02
			8	4	22.05	22.09	22.08
			8	7	22.04	22.03	22.06
			15	0	22.06	22.07	22.05

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18625	18900	19175
					1852.5MHz	1880.0MHz	1907.5MHz
Band 2	5	QPSK	1	0	23.91	23.90	23.95
			1	12	23.96	23.93	23.95
			1	24	23.92	23.93	23.98
			12	0	23.02	23.00	23.01
			12	6	23.05	23.02	23.06
			12	11	23.06	23.05	23.01
			25	0	22.98	22.95	22.89
		16QAM	1	0	23.21	23.25	23.26
			1	12	23.03	23.01	23.06
			1	24	23.09	23.07	23.05
			12	0	22.02	22.00	22.03
			12	6	22.05	22.01	22.02
			12	11	22.15	22.18	22.16
			25	0	22.09	22.01	22.05

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18650	18900	19150
					1855.0MHz	1880.0MHz	1905.0MHz
Band 2	10	QPSK	1	0	23.85	23.79	23.82
			1	24	23.82	23.80	23.85
			1	49	23.71	23.70	23.69
			25	0	22.86	22.86	22.87
			25	12	22.89	22.92	22.89
			25	24	22.69	22.68	22.63
			50	0	22.76	22.85	22.82
		16QAM	1	0	23.12	23.14	23.19
			1	24	23.15	23.16	23.20
			1	49	23.26	23.24	23.22
			25	0	21.95	21.97	21.95
			25	12	21.98	21.92	21.88
			25	24	21.99	21.95	21.96
			50	0	21.96	21.94	21.91

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18675	18900	19125
					1857.5MHz	1880.0MHz	1902.5MHz
Band 2	15	QPSK	1	0	23.71	23.73	23.78
			1	37	23.68	23.65	23.66
			1	74	23.69	23.74	23.75
			36	0	22.81	22.82	22.85
			36	16	22.89	22.91	22.93
			36	35	22.92	22.93	22.96
			75	0	22.76	22.78	22.80
		16QAM	1	0	23.22	23.24	23.25
			1	37	23.29	23.30	23.35
			1	74	23.25	23.31	23.33
			36	0	21.96	21.92	21.89
			36	16	21.88	21.87	21.86
			36	35	21.75	21.71	21.77
			75	0	21.82	21.80	21.83

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18700	18900	19100
					1860.0MHz	1880.0MHz	1900.0MHz
Band 2	20	QPSK	1	0	23.53	23.56	23.59
			1	49	23.95	23.83	23.81
			1	99	23.52	23.51	23.56
			50	0	22.88	22.89	22.90
			50	24	22.80	22.78	22.86
			50	49	22.86	22.83	22.84
			100	0	22.84	22.81	22.82
		16QAM	1	0	23.16	23.20	23.19
			1	49	23.12	23.06	23.08
			1	99	23.10	23.09	23.06
			50	0	21.92	21.91	21.96
			50	24	21.98	21.99	21.95
			50	49	21.96	21.90	21.89
			100	0	21.85	21.83	21.81

LTE Band 4 part

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					19957	20175	20393
					1710.7MHz	1732.5MHz	1754.3MHz
Band 4	1.4	QPSK	1	0	23.98	23.95	23.96
			1	2	23.92	23.91	23.93
			1	5	23.95	23.92	23.95
			3	0	23.11	23.12	23.09
			3	1	23.10	23.10	23.12
			3	2	23.13	23.09	23.13
			6	0	23.07	23.08	23.06
		16QAM	1	0	23.22	23.25	23.29
			1	2	23.29	23.28	23.25
			1	5	23.11	23.10	23.14
			3	0	22.16	22.15	22.19
			3	1	22.05	22.10	22.11
			3	2	22.22	22.24	22.20
			6	0	22.10	22.12	22.14

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					19965	20175	20385
					1711.5MHz	1732.5MHz	1753.5MHz
Band 4	3	QPSK	1	0	23.92	23.90	23.95
			1	7	23.96	23.97	23.99
			1	14	23.92	23.94	23.96
			8	0	23.08	23.06	23.09
			8	4	23.05	23.02	23.08
			8	7	23.06	23.04	23.05
			15	0	23.04	23.03	23.02
		16QAM	1	0	23.13	23.10	23.15
			1	7	23.42	23.45	23.41
			1	14	23.12	23.17	23.19
			8	0	22.02	22.01	22.05
			8	4	22.05	22.06	22.03
			8	7	22.04	22.00	22.02
			15	0	21.95	21.99	21.98

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					19975	20175	20375
					1712.5MHz	1732.5MHz	1752.5MHz
Band 4	5	QPSK	1	0	23.92	23.90	23.95
			1	12	23.95	23.96	23.99
			1	24	23.98	23.97	23.96
			12	0	23.03	23.00	23.02
			12	6	23.04	23.06	23.08
			12	11	23.05	23.07	23.10
			25	0	23.03	23.02	23.05
		16QAM	1	0	23.01	23.02	23.05
			1	12	23.05	23.07	23.08
			1	24	23.35	23.38	23.41
			12	0	22.02	22.00	22.09
			12	6	22.05	22.01	22.05
			12	11	22.06	22.10	22.15
			25	0	22.05	22.03	22.04

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20000	20175	20350
					1715.0MHz	1732.5MHz	1750.0MHz
Band 4	10	QPSK	1	0	23.79	23.75	23.74
			1	24	23.75	23.72	23.78
			1	49	23.69	23.68	23.62
			25	0	22.88	22.85	22.86
			25	12	22.82	22.81	22.85
			25	24	22.75	22.72	22.79
			50	0	22.82	22.80	22.81
		16QAM	1	0	23.26	23.24	23.22
			1	24	23.02	23.00	23.03
			1	49	23.11	23.10	23.05
			25	0	21.85	21.81	21.79
			25	12	21.89	21.87	21.82
			25	24	21.88	21.86	21.85
			50	0	21.85	21.82	21.83

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20025	20175	20325
					1717.5MHz	1732.5MHz	1747.5MHz
Band 4	15	QPSK	1	0	23.86	23.84	23.89
			1	37	23.70	23.68	23.72
			1	74	23.68	23.67	23.62
			36	0	22.85	22.89	22.90
			36	16	22.86	22.88	22.87
			36	35	22.88	22.89	22.86
			75	0	22.82	22.84	22.84
		16QAM	1	0	23.10	23.09	23.05
			1	37	23.15	23.11	23.15
			1	74	23.25	23.29	23.22
			36	0	21.82	21.86	21.80
			36	16	21.83	21.88	21.89
			36	35	21.86	21.85	21.85
			75	0	21.81	21.82	21.83

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20050	20175	20300
					1720.0MHz	1732.5MHz	1745.0MHz
Band 4	20	QPSK	1	0	23.75	23.70	23.71
			1	49	23.88	23.87	23.81
			1	99	23.52	23.47	23.46
			50	0	22.74	22.79	22.75
			50	24	22.80	22.82	22.80
			50	49	22.86	22.89	22.82
			100	0	22.81	22.84	22.85
		16QAM	1	0	23.35	23.41	23.45
			1	49	23.30	23.31	23.29
			1	99	23.06	23.08	23.02
			50	0	21.82	21.79	21.75
			50	24	21.74	21.76	21.72
			50	49	21.77	21.74	21.79
			100	0	21.79	21.81	21.83

LTE Band 5 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20407	20525	20643
					824.7MHz	836.5MHz	848.3MHz
Band 5	1.4	QPSK	1	0	23.96	23.93	23.95
			1	2	23.90	23.89	23.93
			1	5	23.88	23.85	23.88
			3	0	22.95	22.97	22.95
			3	1	22.98	22.96	22.96
			3	2	22.96	22.95	22.97
			6	0	22.86	22.89	22.85
		16QAM	1	0	23.36	23.33	23.38
			1	2	23.15	23.13	23.14
			1	5	23.29	23.31	23.35
			3	0	22.22	22.15	22.16
			3	1	22.25	22.27	22.25
			3	2	22.21	22.19	22.26
			6	0	22.15	22.11	22.13

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20415	20525	20635
					825.5MHz	836.5MHz	847.5MHz
Band 5	3	QPSK	1	0	23.85	23.87	23.90
			1	7	23.88	23.86	23.89
			1	14	23.82	23.89	23.88
			8	0	22.95	22.97	22.95
			8	4	22.96	22.95	22.93
			8	7	22.94	22.98	22.98
			15	0	22.92	22.96	22.93
		16QAM	1	0	23.10	23.08	23.11
			1	7	23.33	23.31	23.30
			1	14	23.41	23.44	23.42
			8	0	22.05	22.02	22.06
			8	4	22.07	22.06	22.08
			8	7	22.06	22.02	22.05
			15	0	22.04	22.05	22.03

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20425	20525	20625
					826.5MHz	836.5MHz	846.5MHz
Band 5	5	QPSK	1	0	23.74	23.76	23.80
			1	12	23.66	23.67	23.62
			1	24	23.62	23.65	23.69
			12	0	22.78	22.75	22.77
			12	6	22.82	22.86	22.89
			12	11	22.79	22.72	22.78
			25	0	22.75	22.73	22.80
		16QAM	1	0	22.59	22.56	22.55
			1	12	22.75	22.80	22.82
			1	24	22.82	22.86	22.90
			12	0	21.74	21.75	21.77
			12	6	21.85	21.87	21.89
			12	11	21.73	21.74	21.80
			25	0	21.84	21.86	21.88

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20450	20525	20600
					829MHz	836.5MHz	844MHz
Band 5	10	QPSK	1	0	23.63	23.68	23.70
			1	24	23.60	23.63	23.68
			1	49	23.75	23.72	23.78
			25	0	22.69	22.78	22.75
			25	12	22.71	22.76	22.74
			25	24	22.79	22.78	22.78
			50	0	22.69	22.73	22.71
		16QAM	1	0	22.59	22.61	22.65
			1	24	22.78	22.80	22.82
			1	49	22.90	22.92	22.89
			25	0	21.82	21.80	21.78
			25	12	21.92	21.91	21.90
			25	24	21.86	21.85	21.86
			50	0	21.85	21.86	21.82

LTE Band 7 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20775	21100	21425
					2502.5MHz	2535.0MHz	2567.5MHz
Band 7	5	QPSK	1	0	23.42	23.34	23.48
			1	12	23.43	23.41	23.40
			1	24	23.44	23.46	23.38
			12	0	22.48	22.50	22.52
			12	6	22.46	22.48	22.42
			12	11	22.52	22.58	22.55
			25	0	22.43	22.47	22.43
		16QAM	1	0	22.71	22.73	22.70
			1	12	22.69	22.66	22.63
			1	24	22.97	22.98	22.95
			12	0	21.52	21.58	21.60
			12	6	21.68	21.70	21.71
			12	11	21.65	21.66	21.69
			25	0	21.62	21.64	21.63

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20800	21100	21400
					2505.0MHz	2535.0MHz	2565.0MHz
Band 7	10	QPSK	1	0	23.42	23.40	23.45
			1	24	23.41	23.44	23.48
			1	49	23.48	23.40	23.49
			25	0	22.41	22.43	22.44
			25	12	22.45	22.46	22.49
			25	24	22.42	22.47	22.50
			50	0	22.20	22.22	22.25
		16QAM	1	0	22.79	22.82	22.83
			1	24	22.53	22.51	22.55
			1	49	22.75	22.78	22.74
			25	0	21.50	21.49	21.44
			25	12	21.53	21.51	21.56
			25	24	21.50	21.52	21.55
			50	0	21.49	21.50	21.48

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20825	21100	21375
					2507.5MHz	2535.0MHz	2562.5MHz
Band 7	15	QPSK	1	0	23.36	23.34	23.32
			1	37	23.42	23.40	23.45
			1	74	23.40	23.38	23.33
			36	0	22.42	22.45	22.41
			36	16	22.48	22.50	22.44
			36	35	22.52	22.56	22.55
			75	0	22.42	22.43	22.44
		16QAM	1	0	22.92	22.95	22.90
			1	37	22.46	22.53	22.58
			1	74	22.60	22.63	22.62
			36	0	21.38	21.40	21.35
			36	16	21.45	21.48	21.50
			36	35	21.42	21.44	21.48
			75	0	21.40	21.43	21.45

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20850	21100	21350
					2510.0MHz	2535.0MHz	2560.0MHz
Band 7	20	QPSK	1	0	23.21	23.24	22.29
			1	49	23.33	23.39	22.31
			1	99	23.25	23.26	22.33
			50	0	22.44	22.46	22.48
			50	24	22.50	22.52	22.55
			50	49	22.48	22.51	22.52
			100	0	22.42	22.48	22.46
		16QAM	1	0	22.45	22.50	22.49
			1	49	22.58	22.59	22.56
			1	99	22.41	22.40	22.35
			50	0	21.44	21.48	21.50
			50	24	21.42	21.45	21.49
			50	49	21.49	21.51	21.55
			100	0	21.38	21.41	21.40

LTE Band 17 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23755	23790	23825
					706.5MHz	710.0MHz	713.5MHz
Band 17	5	QPSK	1	0	23.32	23.36	23.37
			1	12	23.40	23.42	23.48
			1	24	23.28	23.30	23.33
			12	0	22.46	22.48	22.47
			12	6	22.40	22.44	22.48
			12	11	22.48	22.50	22.49
			25	0	22.41	22.43	22.42
		16QAM	1	0	22.52	22.55	22.58
			1	12	22.53	22.54	22.57
			1	24	22.60	22.63	22.67
			12	0	21.45	21.42	21.44
			12	6	21.52	21.55	21.58
			12	11	21.53	21.51	21.52
			25	0	21.35	21.39	21.40

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23780	23790	23800
					709.0MHz	710.0MHz	711.0MHz
Band 17	10	QPSK	1	0	23.33	23.36	23.32
			1	24	23.45	23.49	23.46
			1	49	23.48	23.47	23.41
			25	0	22.44	22.46	22.47
			25	12	22.46	22.48	22.49
			25	24	22.50	22.51	22.53
			50	0	22.48	22.49	22.44
		16QAM	1	0	22.62	22.67	22.68
			1	24	22.63	22.61	22.65
			1	49	22.45	22.41	22.44
			25	0	21.45	21.47	21.50
			25	12	21.53	21.52	21.55
			25	24	21.35	21.36	21.38
			50	0	21.44	21.45	21.42

LTE Band 38 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					37775	38000	38225
					2572.50MHz	2595.00MHz	2617.50MHz
Band 38	5	QPSK	1	0	23.25	23.29	23.31
			1	12	23.28	23.30	23.32
			1	24	23.22	23.27	23.30
			12	0	22.32	22.35	22.38
			12	6	22.28	22.30	22.29
			12	11	22.29	22.25	22.21
			25	0	22.31	22.30	22.32
		16QAM	1	0	22.42	22.40	22.41
			1	12	22.35	22.38	22.40
			1	24	22.45	22.42	22.46
			12	0	21.36	21.33	21.30
			12	6	21.21	21.25	21.29
			12	11	21.22	21.27	21.30
			25	0	21.32	21.29	21.30

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					378000	38000	38200
					2575.00MHz	2595.00MHz	2615.00MHz
Band 38	10	QPSK	1	0	23.30	23.32	23.35
			1	24	23.26	23.28	23.29
			1	49	23.22	23.23	23.21
			25	0	22.35	22.36	22.32
			25	12	22.22	22.24	22.25
			25	24	22.28	22.30	22.32
			50	0	22.32	22.35	22.31
		16QAM	1	0	22.35	22.37	22.32
			1	24	22.26	22.21	22.22
			1	49	22.35	22.32	22.30
			25	0	21.22	21.21	21.25
			25	12	21.25	21.29	21.25
			25	24	21.26	21.25	21.28
			50	0	21.24	21.27	21.25

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					37825	38000	38175
					2577.50MHz	2595.00MHz	2612.50MHz
Band 38	15	QPSK	1	0	23.02	23.04	23.01
			1	37	23.11	23.15	23.15
			1	74	23.15	23.17	23.16
			36	0	22.15	22.19	22.20
			36	16	22.28	22.30	22.32
			36	35	22.21	22.26	22.28
			75	0	22.20	22.23	22.24
		16QAM	1	0	22.30	22.33	22.31
			1	37	22.36	22.35	22.34
			1	74	22.35	22.37	22.32
			36	0	21.24	21.26	21.25
			36	16	21.26	21.22	21.26
			36	35	21.24	21.25	21.22
			75	0	21.23	21.22	21.20

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					37850	38000	38150
					2580.00MHz	2595.00MHz	2610.00MHz
Band 38	20	QPSK	1	0	23.03	23.07	23.08
			1	49	23.15	23.17	23.19
			1	99	23.02	23.05	23.10
			50	0	22.20	22.22	22.26
			50	24	22.26	22.28	22.25
			50	49	22.31	22.30	22.32
			100	0	22.28	22.27	22.25
		16QAM	1	0	22.29	22.25	22.21
			1	49	22.32	22.37	22.32
			1	99	22.15	22.19	22.22
			50	0	21.15	21.10	21.05
			50	24	21.22	21.24	21.28
			50	49	21.26	21.22	21.24
			100	0	21.20	21.23	21.22

LTE Band 41 part:

LTE Band	Band width (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)				
					40065	40355	40640	40750	41215
					2537.5MHz	2566.5MHz	2595.0MHz	2624.0MHz	2652.5MHz
Band 41	5	QPSK	1	0	23.33	23.30	23.31	23.29	23.32
			1	12	23.28	23.22	23.27	23.28	23.29
			1	24	23.20	23.25	23.32	23.30	23.24
			12	0	22.35	22.25	22.32	22.31	22.30
			12	6	22.36	22.19	22.31	22.30	22.25
			12	11	22.25	22.28	22.29	22.28	22.21
		16QAM	25	0	22.35	22.31	22.37	22.35	22.36
			1	0	22.42	22.39	22.44	22.43	22.48
			1	12	22.41	22.40	22.43	22.42	22.44
			1	24	22.48	22.45	22.52	22.51	22.55
			12	0	21.22	21.21	21.25	21.15	21.26
			12	6	21.38	21.35	21.37	21.31	21.35
			12	11	21.29	21.24	21.30	21.32	21.25
			25	0	21.30	21.22	21.33	21.21	21.32

LTE Band	Band width (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)				
					40090	40365	40640	40915	41190
					2540.0MHz	2567.5MHz	2595.0MHz	2622.5MHz	2650.0MHz
Band 41	10	QPSK	1	0	23.35	23.31	23.34	23.35	23.38
			1	24	23.38	23.24	23.35	23.30	23.32
			1	49	23.30	23.22	23.29	23.34	23.30
			25	0	22.30	22.31	22.32	22.25	22.36
			25	12	22.36	22.31	22.35	22.30	22.38
			25	24	22.34	22.32	22.31	22.33	22.36
		16QAM	50	0	22.31	22.21	22.30	22.18	22.35
			1	0	22.44	22.41	22.45	22.40	22.48
			1	24	22.36	22.31	22.34	22.30	22.41
			1	49	22.42	22.41	22.41	22.38	22.45
			25	0	21.35	21.30	21.34	21.31	21.36
			25	12	21.37	21.34	21.39	21.35	21.40
			25	24	21.35	21.31	21.38	21.33	21.35
			50	0	21.34	21.30	21.36	21.25	21.30

LTE Band	Band width (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)				
					40115	40375	40640	40900	41165
					2542.5MHz	2568.5MHz	2595.0MHz	2673.5MHz	2647.5MHz
Band 41	15	QPSK	1	0	23.24	23.20	23.25	23.21	23.19
			1	37	23.22	23.13	23.20	23.21	23.18
			1	74	23.15	23.11	23.12	23.14	23.10
			36	0	22.25	22.20	22.29	22.21	22.26
			36	16	22.29	22.22	22.30	22.20	22.28
			36	35	22.35	22.19	22.29	22.21	22.25
			75	0	22.26	22.19	22.25	22.14	22.21
		16QAM	1	0	22.52	22.49	22.51	22.52	22.55
			1	37	22.48	22.45	22.44	22.43	22.48
			1	74	22.51	22.42	22.56	22.45	22.52
			36	0	21.32	21.35	21.36	21.31	21.39
			36	16	21.26	21.25	21.24	21.30	21.22
			36	35	21.33	21.30	21.31	21.24	21.32
			75	0	21.32	21.27	21.33	21.25	21.30

LTE Band	Band width (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)				
					40140	40390	40640	40890	41140
					2545.0MHz	2570.0MHz	2595.0MHz	2620.0MHz	2645.0MHz
Band 41	20	QPSK	1	0	23.16	23.11	23.15	23.09	23.12
			1	49	23.22	23.20	23.23	23.18	23.21
			1	99	23.15	23.11	23.10	23.14	23.15
			50	0	22.20	22.14	22.25	22.23	22.21
			50	24	22.29	22.20	22.30	22.21	22.26
			50	49	22.25	22.21	22.27	22.24	22.25
			100	0	22.25	22.21	22.27	22.22	22.22
		16QAM	1	0	22.31	22.24	22.32	22.20	22.30
			1	49	22.48	22.43	22.51	22.45	22.55
			1	99	22.45	22.41	22.47	22.42	22.50
			50	0	21.14	21.25	21.15	21.11	21.16
			50	24	21.30	21.35	21.33	21.31	21.36
			50	49	21.34	21.28	21.36	21.30	21.38
			100	0	21.32	21.22	21.35	21.32	21.33

Note:

1. Per KDB 447498 D01v05r02 section 4.1, 6), the required test channels number is 5 for LTE Band 41.

13.4 WLAN 2.4 GHz Band Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 b	802.11 g	802.11n (HT20)
CH 01	2412	16.72	14.48	14.36
CH 06	2437	16.35	14.35	14.29
CH 11	2462	16.37	14.41	14.21

Average Power (dBm)		
Channel	Frequency (MHz)	802.11n (HT40)
CH 03	2422	13.84
CH 06	2437	13.56
CH 09	2452	13.66

Note:

- Per KDB 447498 D01v06, the 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
 for 1-g SAR, where
 - f(GHz) is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR
b/CH 01	2.412	17.0	50.12	5	15.54	3.0
g/CH 01	2.412	14.5	28.18	5	8.74	3.0

- Base on the result of note1, RF exposure evaluation of 802.11 b mode is required.
- Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
- Per KDB 248227 D01v02r02, In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. SAR is not required for the following 2.4 GHz OFDM conditions:
 - When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
 - 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.
- The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
- Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 99.70%, so the duty cycle factor is 1.01.

13.5 WLAN 5.2GHz Band Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 a	802.11 n20	802.11 ac20
CH 36	5180	9.01	8.91	8.77
CH 40	5200	8.39	8.30	8.27
CH 48	5240	9.18	8.98	9.00

Average Power (dBm)			
Channel	Frequency (MHz)	802.11n 40	802.11 ac40
CH 38	5190	8.50	8.49
CH 46	5230	9.04	9.13

Average Power (dBm)		
Channel	Frequency (MHz)	802.11ac 80
CH 42	5210	9.00

Note:

7. Per KDB 447498 D01v06, the 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$$[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] \cdot [\sqrt{f(GHz)}] \leq 3.0$$
 for 1-g SAR, where
 - f(GHz) is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR
a/CH 48	5.240	9.5	8.91	5	4.08	3.0

8. Base on the result of note1, RF exposure evaluation of 802.11 a mode is required.
9. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
10. The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
11. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 97.75%, so the duty cycle factor is 1.02.

13.6 WLAN 5.8GHz Band Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 a	802.11 n20	802.11 ac20
CH 149	5745	11.45	11.42	11.40
CH 157	5785	12.32	12.27	12.26
CH 165	5825	11.56	11.50	11.48

Average Power (dBm)			
Channel	Frequency (MHz)	802.11n 40	802.11 ac40
CH 151	5755	11.33	11.33
CH 159	5795	11.97	11.99

Average Power (dBm)		
Channel	Frequency (MHz)	802.11 ac80
CH 155	5775	12.01

Note:

- Per KDB 447498 D01v06, the 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
 for 1-g SAR, where
 - f(GHz) is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR
a/CH 157	5.785	12.5	17.78	5	8.57	3.0

- Base on the result of note1, RF exposure evaluation of 802.11 a mode is not required.
- Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
- The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
- Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 97.74%, so the duty cycle factor is 1.02.

13.7 Bluetooth Conducted Power

Peak Power (dBm) (Bluetooth)				
Channel	Frequency (MHz)	GFSK	$\pi/4$ -DQPSK	8DPSK
CH 01	2402	5.84	5.95	5.94
CH 39	2441	5.78	5.88	5.85
CH 78	2480	5.65	5.47	5.45

Peak Power (dBm)		
Channel	Frequency (MHz)	BLE
CH 00	2402	-3.62
CH 20	2442	-3.90
CH 39	2480	-4.16

Note:

- Per KDB 447498 D01v06, the 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* \leq 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
 for 1-g SAR, where
 - $f(\text{GHz})$ is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison

Channel	Frequency (GHz)	Max. tune-up Power (dBm)	Max. Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR
CH 01	2.402	6	3.98	5	1.23	3.0

- The max. tune-up power was provided by manufacturer, base on the result of note 1, RF exposure evaluation is not required.
- The output power of all data rate were pre-scan, just the worst case of all mode were shown in report.
- When the minimum *test separation distance* is $<$ 5 mm, a distance of 5 mm according is applied to determine SAR test exclusion.

14 Exposure Positions Consideration

14.1 EUT Antenna Locations

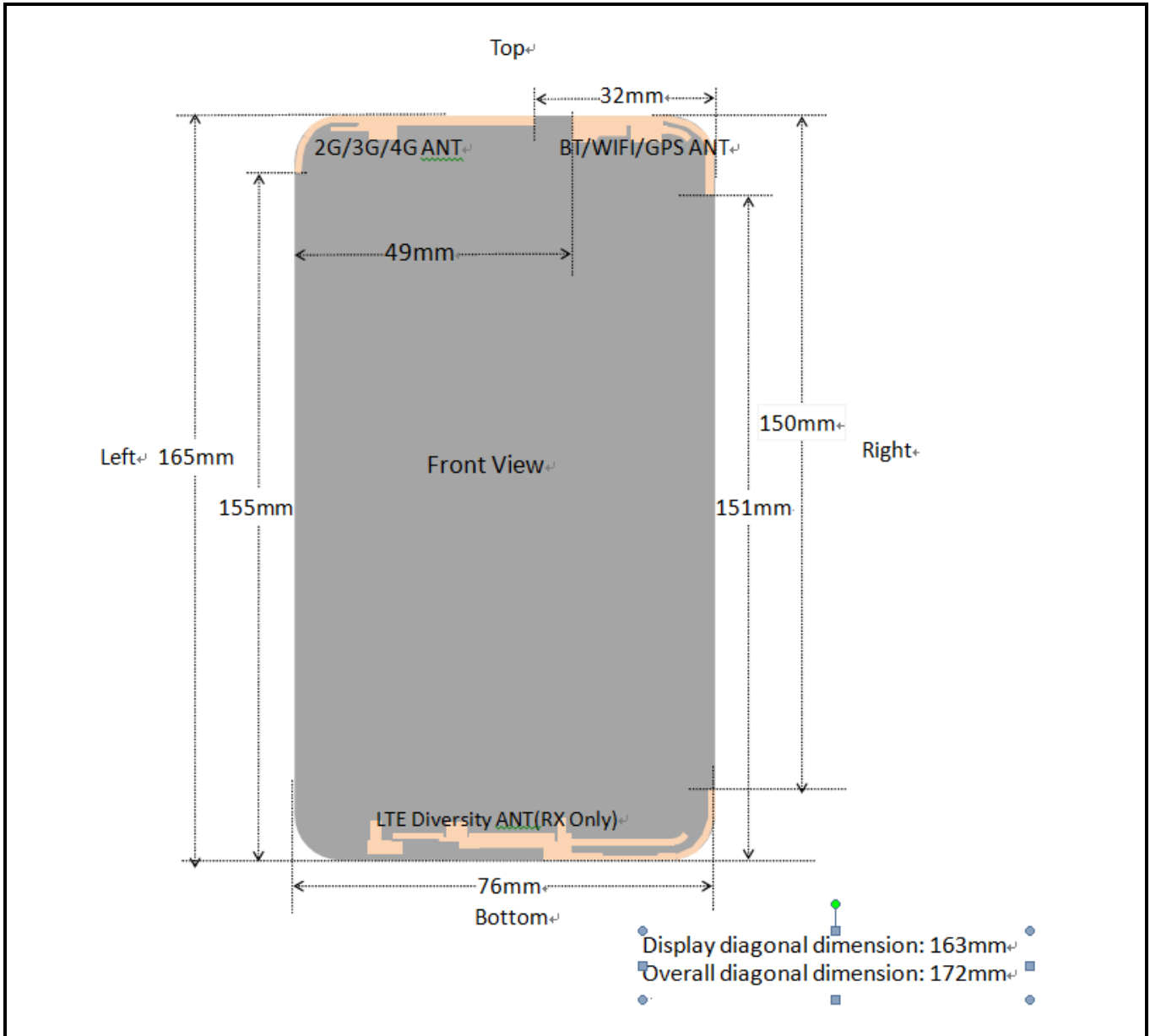


Fig.14.1 EUT Antenna Locations

Note: This antenna diagram is only used as a reference for the distance from the antenna to each edge. For the specific shape of the antenna, please refer to the physical photo.

14.2 Test Positions Consideration

Distance of Antennas to EUT edge/surface Test distance: 10mm						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
2G/3G/4G	<25mm	<25mm	<25mm	155mm	32mm	<25mm
WLAN & Bluetooth	<25mm	<25mm	<25mm	151mm	<25mm	49mm

Test Positions Test distance: 10mm						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
2G/3G/4G	Yes	Yes	Yes	No	No	Yes
WLAN & Bluetooth	Yes	Yes	Yes	No	Yes	No

Note:

1. Head/Body-worn/Hotspot mode SAR assessments are required.
2. Referring to KDB 941225 D06 v02r01, when the overall device length and width are $\geq 9\text{cm} * 5\text{cm}$, the test distance is 10mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.
3. Per KDB 447498 D01v06, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user, which is 0 mm for head SAR, 10 mm for hotspot SAR, and 10 mm for body-worn SAR.

15 SAR Test Results Summary

15.1 Standalone Head SAR Data

➤ GSM Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	GSM850/Voice	Right Cheek	251	848.8	33.02	0.04	33.5	1.020	1.117	1.139
	GSM850/Voice	Right Cheek	251	848.8	33.02	-0.02	33.5	1.010	1.117	1.128
	GSM850/Voice	Right Cheek	128	824.2	32.89	-0.01	33.5	0.896	1.151	1.031
	GSM850/Voice	Right Cheek	190	836.6	32.96	0.08	33.5	0.985	1.132	1.115
1	GSM850/Voice	Right Tilted	251	848.8	33.02	-0.24	33.5	1.050	1.117	1.173
	GSM850/Voice	Right Tilted	251	848.8	33.02	-0.10	33.5	1.040	1.117	1.162
	GSM850/Voice	Right Tilted	128	824.2	32.89	0.03	33.5	0.910	1.151	1.047
	GSM850/Voice	Right Tilted	190	836.6	32.96	0.00	33.5	1.020	1.132	1.155
	GSM850/Voice	Left Cheek	251	848.8	33.02	0.06	33.5	1.040	1.117	1.162
	GSM850/Voice	Left Cheek	251	848.8	33.02	0.05	33.5	1.020	1.117	1.139
	GSM850/Voice	Left Cheek	128	824.2	32.89	-0.01	33.5	0.912	1.151	1.050
	GSM850/Voice	Left Cheek	190	836.6	32.96	0.15	33.5	0.983	1.132	1.113
	GSM850/Voice	Left Tilted	251	848.8	33.02	0.02	33.5	0.897	1.117	1.002
	GSM850/Voice	Left Tilted	251	848.8	33.02	0.06	33.5	0.882	1.117	0.985
	GSM850/Voice	Left Tilted	128	824.2	32.89	-0.02	33.5	0.816	1.151	0.939
	GSM850/Voice	Left Tilted	190	836.6	32.96	0.11	33.5	0.847	1.132	0.959
	GSM1900/Voice	Right Cheek	810	1909.8	30.42	0.02	30.5	0.325	1.019	0.331
2	GSM1900/Voice	Right Tilted	810	1909.8	30.42	0.08	30.5	0.449	1.019	0.458
	GSM1900/Voice	Left Cheek	810	1909.8	30.42	0.05	30.5	0.224	1.019	0.228
	GSM1900/Voice	Left Tilted	810	1909.8	30.42	0.01	30.5	0.267	1.019	0.272
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g			

➤ WCDMA Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
3	Band V/RMC	Right Cheek	4233	846.6	23.99	0.03	24.0	0.579	1.002	0.580
	Band V/RMC	Right Tilted	4233	846.6	23.99	0.02	24.0	0.550	1.002	0.551
	Band V/RMC	Left Cheek	4233	846.6	23.99	-0.04	24.0	0.453	1.002	0.454
	Band V/RMC	Left Tilted	4233	846.6	23.99	0.08	24.0	0.402	1.002	0.403
	Band II/RMC	Right Cheek	9538	1907.6	24.27	-0.01	24.5	0.284	1.054	0.299
4	Band II/RMC	Right Tilted	9538	1907.6	24.27	0.08	24.5	0.339	1.054	0.357
	Band II/RMC	Left Cheek	9538	1907.6	24.27	0.11	24.5	0.211	1.054	0.222
	Band II/RMC	Left Tilted	9538	1907.6	24.27	-0.02	24.5	0.243	1.054	0.256
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g			

➤ LTE 20MHz QPSK 1RB Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band2/RB#49	Right Cheek	18700	1860.0	23.95	0.16	24.0	0.152	1.012	0.154
5	Band2/RB#49	Right Tilted	18700	1860.0	23.95	-0.01	24.0	0.223	1.012	0.226
	Band2/RB#49	Left Cheek	18700	1860.0	23.95	0.02	24.0	0.114	1.012	0.115
	Band2/RB#49	Left Tilted	18700	1860.0	23.95	0.11	24.0	0.183	1.012	0.185
	Band4/RB#49	Right Cheek	20050	1720.0	23.88	0.07	24.0	0.200	1.028	0.206
6	Band4/RB#49	Right Tilted	20050	1720.0	23.88	-0.17	24.0	0.274	1.028	0.282
	Band4/RB#49	Left Cheek	20050	1720.0	23.88	0.12	24.0	0.143	1.028	0.147
	Band4/RB#49	Left Tilted	20050	1720.0	23.88	0.05	24.0	0.168	1.028	0.173
	Band7/RB#49	Right Cheek	21100	2535.0	23.39	-0.10	23.5	0.071	1.026	0.073
7	Band7/RB#49	Right Tilted	21100	2535.0	23.39	-0.02	23.5	0.190	1.026	0.195
	Band7/RB#49	Left Cheek	21100	2535.0	23.39	-0.11	23.5	0.051	1.026	0.052

Band7/RB#49	Left Tilted	21100	2535.0	23.39	0.07	23.5	0.121	1.026	0.124	
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g				

➤ LTE 10MHz QPSK 1RB Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	
	Band5/RB#49	Right Cheek	20600	844.0	23.78	0.04	24.0	0.935	1.052	0.984	
	Band5/RB#49	Right Cheek	20600	844.0	23.78	-0.09	24.0	0.928	1.052	0.976	
	Band5/RB#49	Right Cheek	20450	829.0	23.75	-0.11	24.0	0.865	1.059	0.916	
	Band5/RB#49	Right Cheek	20525	836.5	23.72	0.05	24.0	0.906	1.067	0.967	
	Band5/RB#49	Right Tilted	20600	844.0	23.78	0.04	24.0	1.030	1.052	1.084	
8	Band5/RB#49	Right Tilted	20600	844.0	23.78	-0.10	24.0	1.030	1.052	1.084	
	Band5/RB#49	Right Tilted	20450	829.0	23.75	0.05	24.0	0.973	1.059	1.030	
	Band5/RB#49	Right Tilted	20525	836.5	23.72	0.04	24.0	1.020	1.067	1.088	
	Band5/RB#49	Left Cheek	20600	844.0	23.78	-0.04	24.0	0.875	1.052	0.921	
	Band5/RB#49	Left Cheek	20600	844.0	23.78	-0.22	24.0	0.868	1.052	0.913	
	Band5/RB#49	Left Cheek	20450	829.0	23.75	0.15	24.0	0.748	1.059	0.792	
	Band5/RB#49	Left Cheek	20525	836.5	23.72	-0.09	24.0	0.851	1.067	0.908	
	Band5/RB#49	Left Tilted	20600	844.0	23.78	0.01	24.0	0.895	1.052	0.942	
	Band5/RB#49	Left Tilted	20600	844.0	23.78	-0.31	24.0	0.894	1.052	0.940	
	Band5/RB#49	Left Tilted	20450	829.0	23.75	-0.03	24.0	0.772	1.059	0.818	
	Band5/RB#49	Left Tilted	20525	836.5	23.72	-0.11	24.0	0.872	1.067	0.930	
9	Band17/RB#24	Right Cheek	23790	710.0	23.49	-0.02	23.5	0.627	1.002	0.628	
	Band17/RB#24	Right Tilted	23790	710.0	23.49	-0.18	23.5	0.569	1.002	0.570	
	Band17/RB#24	Left Cheek	23790	710.0	23.49	-0.02	23.5	0.425	1.002	0.426	
	Band17/RB#24	Left Tilted	23790	710.0	23.49	0.05	23.5	0.386	1.002	0.387	
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ TDD-LTE 20MHz QPSK 1RB Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	Band38/RB#49	Right Cheek	38150	2610.0	23.19	0.04	23.5	0.876	1.074	1.008	0.948
	Band38/RB#49	Right Cheek	38150	2610.0	23.19	-0.06	23.5	0.875	1.074	1.008	0.947
	Band38/RB#49	Right Cheek	37850	2580.0	23.15	-0.15	23.5	0.842	1.084	1.008	0.920
	Band38/RB#49	Right Cheek	38000	2595.0	23.17	0.22	23.5	0.810	1.079	1.008	0.881
10	Band38/RB#49	Right Tilted	38150	2610.0	23.19	-0.03	23.5	1.070	1.074	1.008	1.158
	Band38/RB#49	Right Tilted	38150	2610.0	23.19	-0.11	23.5	1.060	1.074	1.008	1.148
	Band38/RB#49	Right Tilted	37850	2580.0	23.15	0.05	23.5	1.030	1.084	1.008	1.125
	Band38/RB#49	Right Tilted	38000	2595.0	23.17	0.04	23.5	0.918	1.079	1.008	0.998
	Band38/RB#49	Left Cheek	38150	2610.0	23.19	0.06	23.5	0.431	1.074	1.008	0.467
	Band38/RB#49	Left Tilted	38150	2610.0	23.19	0.07	23.5	0.568	1.074	1.008	0.615
	Band41/RB#49	Right Cheek	40640	2595.0	23.23	0.00	23.5	0.743	1.064	1.008	0.791
	Band41/RB#49	Right Tilted	40640	2595.0	23.23	-0.04	23.5	1.010	1.064	1.008	1.083
11	Band41/RB#49	Right Tilted	40140	2545.0	23.22	0.06	23.5	1.040	1.067	1.008	1.119
	Band41/RB#49	Right Tilted	40140	2545.0	23.22	-0.02	23.5	1.030	1.067	1.008	1.108
	Band41/RB#49	Right Tilted	40390	2570.0	23.20	-0.07	23.5	0.951	1.072	1.008	1.028
	Band41/RB#49	Right Tilted	40890	2620.0	23.17	-0.22	23.5	0.916	1.079	1.008	0.996
	Band41/RB#49	Right Tilted	41140	2645.0	23.21	-0.01	23.5	0.715	1.069	1.008	0.770
	Band41/RB#49	Left Cheek	40640	2595.0	23.23	0.09	23.5	0.181	1.064	1.008	0.194
	Band41/RB#49	Left Tilted	40640	2595.0	23.23	0.02	23.5	0.302	1.064	1.008	0.324
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ LTE 20MHz QPSK 50%RB Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	
	Band2/RB#0	Right Cheek	19100	1900.0	22.90	0.01	23.0	0.147	1.023	0.150	
12	Band2/RB#0	Right Tilted	19100	1900.0	22.90	0.08	23.0	0.226	1.023	0.231	
	Band2/RB#0	Left Cheek	19100	1900.0	22.90	-0.05	23.0	0.107	1.023	0.109	
	Band2/RB#0	Left Tilted	19100	1900.0	22.90	-0.01	23.0	0.176	1.023	0.180	
	Band4/RB#49	Right Cheek	20175	1732.5	22.89	0.01	23.0	0.115	1.026	0.118	
13	Band4/RB#49	Right Tilted	20175	1732.5	22.89	-0.25	23.0	0.196	1.026	0.201	
	Band4/RB#49	Left Cheek	20175	1732.5	22.89	0.04	23.0	0.103	1.026	0.106	
	Band4/RB#49	Left Tilted	20175	1732.5	22.89	-0.02	23.0	0.127	1.026	0.130	
	Band7/RB#24	Right Cheek	21350	2560.0	22.55	-0.09	23.0	0.043	1.109	0.048	
14	Band7/RB#24	Right Tilted	21350	2560.0	22.55	0.30	23.0	0.126	1.109	0.140	
	Band7/RB#24	Left Cheek	21350	2560.0	22.55	0.03	23.0	0.014	1.109	0.016	
	Band7/RB#24	Left Tilted	21350	2560.0	22.55	-0.08	23.0	0.086	1.109	0.095	
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ LTE 10MHz QPSK 50%RB Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	
	Band5/RB#24	Right Cheek	20450	829.0	22.79	0.16	23.0	0.752	1.050	0.790	
15	Band5/RB#24	Right Tilted	20450	829.0	22.79	-0.04	23.0	0.807	1.050	0.847	
	Band5/RB#24	Right Tilted	20450	829.0	22.79	-0.18	23.0	0.805	1.050	0.845	
	Band5/RB#24	Right Tilted	20525	836.5	22.78	-0.05	23.0	0.794	1.052	0.835	
	Band5/RB#24	Right Tilted	20600	844.0	22.78	-0.01	23.0	0.786	1.052	0.827	
	Band5/RB#24	Left Cheek	20450	829.0	22.79	-0.08	23.0	0.714	1.050	0.750	
	Band5/RB#24	Left Tilted	20450	829.0	22.79	-0.03	23.0	0.643	1.050	0.675	
16	Band17/RB#24	Right Cheek	23800	711.0	22.53	0.05	23.0	0.441	1.114	0.527	
	Band17/RB#24	Right Tilted	23800	711.0	22.53	0.04	23.0	0.402	1.114	0.448	
	Band17/RB#24	Left Cheek	23800	711.0	22.53	0.02	23.0	0.358	1.114	0.399	
	Band17/RB#24	Left Tilted	23800	711.0	22.53	-0.06	23.0	0.317	1.114	0.353	
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ TDD-LTE 20MHz QPSK 50%RB Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	Band38/RB#49	Right Cheek	38150	2610.0	22.32	0.02	22.5	0.714	1.042	1.008	0.750
17	Band38/RB#49	Right Tilted	38150	2610.0	22.32	-0.05	22.5	0.822	1.042	1.008	0.863
	Band38/RB#49	Right Tilted	38150	2610.0	22.32	-0.09	22.5	0.820	1.042	1.008	0.861
	Band38/RB#49	Right Tilted	37850	2580.0	22.31	0.05	22.5	0.796	1.045	1.008	0.838
	Band38/RB#49	Right Tilted	38000	2595.0	22.30	-0.20	22.5	0.761	1.047	1.008	0.803
	Band38/RB#49	Left Cheek	38150	2610.0	22.32	0.01	22.5	0.328	1.042	1.008	0.345
	Band38/RB#49	Left Tilted	38150	2610.0	22.32	-0.06	22.5	0.376	1.042	1.008	0.395
	Band41/RB#24	Right Cheek	40640	2595.0	22.30	0.05	22.5	0.681	1.047	1.008	0.719
18	Band41/RB#24	Right Tilted	40640	2595.0	22.30	0.00	22.5	0.806	1.047	1.008	0.851
	Band41/RB#24	Right Tilted	40640	2595.0	22.30	-0.07	22.5	0.801	1.047	1.008	0.839
	Band41/RB#24	Right Tilted	40140	2545.0	22.29	0.15	22.5	0.775	1.050	1.008	0.820
	Band41/RB#49	Right Tilted	40390	2570.0	22.21	0.01	22.5	0.721	1.069	1.008	0.777
	Band41/RB#49	Right Tilted	40890	2620.0	22.24	-0.04	22.5	0.706	1.062	1.008	0.756
	Band41/RB#24	Right Tilted	41140	2645.0	22.26	-0.03	22.5	0.741	1.057	1.008	0.790
	Band41/RB#24	Left Cheek	40640	2595.0	22.30	0.07	22.5	0.127	1.047	1.008	0.134
	Band41/RB#24	Left Tilted	40640	2595.0	22.30	-0.02	22.5	0.186	1.047	1.008	0.196
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

> LTE 10MHz QPSK 100%RB Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	
	Band5/RB#0	Right Cheek	20525	836.5	22.73	-0.04	23.0	0.675	1.064	0.718	
19	Band5/RB#0	Right Tilted	20525	836.5	22.73	0.00	23.0	0.742	1.064	0.789	
	Band5/RB#0	Left Cheek	20525	836.5	22.73	-0.34	23.0	0.631	1.064	0.671	
	Band5/RB#0	Left Tilted	20525	836.5	22.73	0.09	23.0	0.689	1.064	0.733	
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

> TDD-LTE 20MHz QPSK 100%RB Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	Band38/RB#0	Right Cheek	37850	2580.0	22.28	-0.09	22.5	0.651	1.052	1.008	0.690
20	Band38/RB#0	Right Tilted	37850	2580.0	22.28	0.07	22.5	0.747	1.052	1.008	0.792
	Band38/RB#0	Left Cheek	37850	2580.0	22.28	0.22	22.5	0.209	1.052	1.008	0.224
	Band38/RB#0	Left Tilted	37850	2580.0	22.28	-0.04	22.5	0.261	1.052	1.008	0.280
	Band41/RB#0	Right Cheek	40640	2595.0	22.27	-0.20	22.5	0.605	1.054	1.008	0.643
21	Band41/RB#0	Right Tilted	40640	2595.0	22.27	0.05	22.5	0.749	1.054	1.008	0.796
	Band41/RB#0	Left Cheek	40640	2595.0	22.27	0.04	22.5	0.105	1.054	1.008	0.113
	Band41/RB#0	Left Tilted	40640	2595.0	22.27	-0.02	22.5	0.132	1.054	1.008	0.142
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

> WLAN 2.4 GHz Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	2.4GHz/802.11b	Right Cheek	01	2412	16.72	0.28	17.0	0.058	1.067	1.01	0.063
	2.4GHz/802.11b	Right Tilted	01	2412	16.72	0.12	17.0	0.089	1.067	1.01	0.096
	2.4GHz/802.11b	Left Cheek	01	2412	16.72	-0.13	17.0	0.205	1.067	1.01	0.221
22	2.4GHz/802.11b	Left Tilted	01	2412	16.72	0.30	17.0	0.221	1.067	1.01	0.238
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

> WLAN 5.2 GHz Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.2GHz/802.11a	Right Cheek	48	5240	9.18	-0.07	9.5	0.096	1.076	1.02	0.105
	5.2GHz/802.11a	Right Tilted	48	5240	9.18	0.02	9.5	0.129	1.076	1.02	0.142
	5.2GHz/802.11a	Left Cheek	48	5240	9.18	0.20	9.5	0.133	1.076	1.02	0.146
23	5.2GHz/802.11a	Left Tilted	48	5240	9.18	-0.03	9.5	0.182	1.076	1.02	0.200
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

> WLAN 5.8 GHz Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.8GHz/802.11a	Right Cheek	157	5785	12.32	0.20	12.5	0.047	1.042	1.02	0.050
	5.8GHz/802.11a	Right Tilted	157	5785	12.32	0.10	12.5	0.069	1.042	1.02	0.073
	5.8GHz/802.11a	Left Cheek	157	5785	12.32	-0.10	12.5	0.068	1.042	1.02	0.072
24	5.8GHz/802.11a	Left Tilted	157	5785	12.32	-0.17	12.5	0.135	1.042	1.02	0.143
ANSI / IEEE C95.1 – SAFETY LIMIT							1.6 W/kg (mW/g)				

Spatial Peak Uncontrolled Exposure/General Population	Averaged over 1g
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Note:

- Per KDB 447498 D01v06, for each exposure position, if the highest output power channel Reported SAR ≤ 0.8 W/kg, other channels SAR testing is not necessary.
- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8 W/kg.
- Per KDB 941225 D05v02r05, 100% RB allocation SAR measurement is not required when the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg.
- Per KDB 248227 D01v02r02, for 802.11b DSSS, 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 in that exposure configuration.
- Per KDB 248227 D01v02r02, OFDM SAR is not required 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. Cuz the maximum output power specified for OFDM and DSSS are 28.18mW(14.5dBm) and 50.12mW(17.0dBm), the scaled SAR would be $0.238 \times (28.18/50.12) = 0.134$ W/Kg < 1.2 W/kg, therefore, SAR is not required for OFDM.
- According to KDB 865664 D02v01r02, SAR plot is required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.

15.2 Standalone Body SAR

➤ GSM Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	GSM850/Voice	Front	251	848.8	33.02	-0.04	33.5	0.216	1.117	0.241
25	GSM850/Voice	Back	251	848.8	33.02	-0.06	33.5	0.284	1.117	0.317
	GSM1900/Voice	Front	810	1909.8	30.42	0.05	30.5	0.273	1.019	0.278
26	GSM1900/Voice	Back	810	1909.8	30.42	0.02	30.5	0.344	1.019	0.351
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g			

➤ WCDMA Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band V/RMC	Front	4233	846.6	23.99	-0.08	24.0	0.154	1.002	0.154
27	Band V/RMC	Back	4233	846.6	23.99	-0.07	24.0	0.278	1.002	0.279
	Band II/RMC	Front	9538	1907.6	24.27	-0.10	24.5	0.064	1.054	0.067
28	Band II/RMC	Back	9538	1907.6	24.27	0.09	24.5	0.107	1.054	0.113
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g			

➤ LTE 20MHz QPSK 1RB Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band2/RB#49	Front	18700	1860.0	23.95	0.12	24.0	0.053	1.012	0.054
29	Band2/RB#49	Back	18700	1860.0	23.95	0.02	24.0	0.074	1.012	0.075
	Band4/RB#49	Front	20050	1720.0	23.88	0.09	24.0	0.074	1.028	0.076
30	Band4/RB#49	Back	20050	1720.0	23.88	0.06	24.0	0.093	1.028	0.096
	Band7/RB#49	Front	21100	2535.0	23.39	0.01	23.5	0.022	1.026	0.023
31	Band7/RB#49	Back	21100	2535.0	23.39	0.00	23.5	0.081	1.026	0.083
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g			

> LTE 10MHz QPSK 1RB Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	
	Band5/RB#49	Front	20600	844.0	23.78	-0.08	24.0	0.270	1.052	0.284	
32	Band5/RB#49	Back	20600	844.0	23.78	-0.04	24.0	0.350	1.052	0.368	
	Band17/RB#24	Front	23790	710.0	23.49	0.03	23.5	0.136	1.002	0.136	
33	Band17/RB#24	Back	23790	710.0	23.49	-0.06	23.5	0.138	1.002	0.138	
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

> TDD-LTE 20MHz QPSK 1RB Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	Band38/RB#49	Front	38150	2610.0	23.19	0.02	23.5	0.146	1.074	1.008	0.158
34	Band38/RB#49	Back	38150	2610.0	23.19	0.16	23.5	0.517	1.074	1.008	0.560
	Band41/RB#49	Front	40640	2595.0	23.23	0.12	23.5	0.143	1.064	1.008	0.153
35	Band41/RB#49	Back	40640	2595.0	23.23	0.11	23.5	0.497	1.064	1.008	0.533
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

> LTE 20MHz QPSK 50%RB Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	
	Band2/RB#0	Front	19100	1900.0	22.90	-0.09	23.0	0.055	1.023	0.056	
36	Band2/RB#0	Back	19100	1900.0	22.90	-0.16	23.0	0.077	1.023	0.079	
	Band4/RB#49	Front	20175	1732.5	22.89	0.02	23.0	0.049	1.026	0.050	
37	Band4/RB#49	Back	20175	1732.5	22.89	0.16	23.0	0.067	1.026	0.069	
	Band7/RB#24	Front	21350	2560.0	22.55	-0.04	23.0	0.018	1.109	0.020	
38	Band7/RB#24	Back	21350	2560.0	22.55	0.00	23.0	0.054	1.109	0.060	
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

> LTE 10MHz QPSK 50%RB Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	
	Band5/RB#24	Front	20450	829.0	22.79	-0.04	23.0	0.189	1.050	0.200	
39	Band5/RB#24	Back	20450	829.0	22.79	-0.03	23.0	0.264	1.050	0.279	
	Band17/RB#24	Front	23800	711.0	22.53	0.01	23.0	0.115	1.114	0.129	
40	Band17/RB#24	Back	23800	711.0	22.53	0.17	23.0	0.121	1.114	0.136	
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

> TDD-LTE 20MHz QPSK 50%RB Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	Band38/RB#49	Front	38150	2610.0	22.32	-0.15	22.5	0.110	1.042	1.008	0.116
41	Band38/RB#49	Back	38150	2610.0	22.32	-0.03	22.5	0.387	1.042	1.008	0.406
	Band41/RB#24	Front	40640	2595.0	22.30	0.03	22.5	0.119	1.047	1.008	0.126
42	Band41/RB#24	Back	40640	2595.0	22.30	0.32	22.5	0.399	1.047	1.008	0.421
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ WLAN 2.4 GHz Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	2.4GHz/802.11b	Front	01	2412	16.72	0.00	17.0	0.041	1.067	1.01	0.044
43	2.4GHz/802.11b	Back	01	2412	16.72	0.02	17.0	0.077	1.067	1.01	0.083
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ WLAN 5.2 GHz Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.2GHz/802.11a	Front	48	5240	9.18	0.00	9.5	0.021	1.076	1.02	0.023
44	5.2GHz/802.11a	Back	48	5240	9.18	-0.01	9.5	0.031	1.076	1.02	0.034
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ WLAN 5.8 GHz Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.8GHz/802.11a	Front	157	5785	12.32	0.03	12.5	0.010	1.042	1.02	0.011
45	5.8GHz/802.11a	Back	157	5785	12.32	-0.02	12.5	0.037	1.042	1.02	0.039
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

Note:

1. Body-worn SAR testing was performed at 10mm separation, and this distance is determined by the handset manufacturer that there will be body-worn accessories that users may acquire at the time of equipment certification, to enable users to purchase aftermarket body-worn accessories with the required minimum separation.
2. Per KDB 941225 D06v02r01, when the same wireless modes and device transmission configurations are required for testing body-worn accessories and hotspot mode, it is not necessary to test body-worn accessory SAR for the same device orientation if the test separation distance for hotspot mode is more conservative than that used for body-worn accessories.
3. Body-worn exposure conditions are intended to voice call operations, therefore GSM voice call is selected to be tested.
4. Per KDB 648474 D04v01r03, when the *Reported* SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
5. The WLAN SAR perform the front and back position, due considered the simultaneous SAR for body-worn.
6. Per KDB 447498 D01v06, for each exposure position, if the highest output channel Reported SAR ≤ 0.8 W/kg, other channels SAR testing is not necessary.
7. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8 W/kg.
8. Per KDB 941225 D05v02r05, 100% RB allocation SAR measurement is not required when the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg.
9. According to KDB 865664 D02v01r02, SAR plot is required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.

15.3 Body SAR in Hotspot Mode

➤ GSM Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	GPRS850/2 slots	Front	251	848.8	31.99	-0.05	32.0	0.409	1.002	0.410
46	GPRS850/2 slots	Back	251	848.8	31.99	-0.28	32.0	0.468	1.002	0.469
	GPRS850/2 slots	Left	251	848.8	31.99	-0.04	32.0	0.216	1.002	0.216
	GPRS850/2 slots	Top	251	848.8	31.99	-0.06	32.0	0.284	1.002	0.285
	GPRS1900/2 slots	Front	810	1909.8	29.40	0.25	29.5	0.574	1.023	0.587
47	GPRS1900/2 slots	Back	810	1909.8	29.40	0.08	29.5	0.656	1.023	0.671
	GPRS1900/2 slots	Left	810	1909.8	29.40	0.19	29.5	0.229	1.023	0.234
	GPRS1900/2 slots	Top	810	1909.8	29.40	-0.09	29.5	0.304	1.023	0.311
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g			

➤ WCDMA Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band V/RMC	Front	4233	846.6	23.99	-0.08	24.0	0.154	1.002	0.154
27	Band V/RMC	Back	4233	846.6	23.99	-0.07	24.0	0.278	1.002	0.279
	Band V/RMC	Left	4233	846.6	23.99	0.03	24.0	0.125	1.002	0.125
	Band V/RMC	Top	4233	846.6	23.99	0.01	24.0	0.154	1.002	0.154
	Band II/RMC	Front	9538	1907.6	24.27	-0.10	24.5	0.064	1.054	0.067
	Band II/RMC	Back	9538	1907.6	24.27	0.09	24.5	0.107	1.054	0.113
	Band II/RMC	Left	9538	1907.6	24.27	0.11	24.5	0.079	1.054	0.083
48	Band II/RMC	Top	9538	1907.6	24.27	-0.10	24.5	0.130	1.054	0.137
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g			

➤ LTE 20MHz QPSK 1RB Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band2/RB#49	Front	18700	1860.0	23.95	0.12	24.0	0.053	1.012	0.054
	Band2/RB#49	Back	18700	1860.0	23.95	0.02	24.0	0.074	1.012	0.075
	Band2/RB#49	Left	18700	1860.0	23.95	0.08	24.0	0.066	1.012	0.067
49	Band2/RB#49	Top	18700	1860.0	23.95	-0.11	24.0	0.080	1.012	0.081
	Band4/RB#49	Front	20050	1720.0	23.88	0.09	24.0	0.074	1.028	0.076
	Band4/RB#49	Back	20050	1720.0	23.88	0.06	24.0	0.093	1.028	0.096
	Band4/RB#49	Left	20050	1720.0	23.88	-0.05	24.0	0.061	1.028	0.063
50	Band4/RB#49	Top	20050	1720.0	23.88	0.03	24.0	0.117	1.028	0.120
	Band7/RB#49	Front	21100	2535.0	23.39	0.01	23.5	0.022	1.026	0.023
31	Band7/RB#49	Back	21100	2535.0	23.39	0.00	23.5	0.081	1.026	0.083
	Band7/RB#49	Left	21100	2535.0	23.39	0.02	23.5	0.042	1.026	0.043
	Band7/RB#49	Top	21100	2535.0	23.39	-0.07	23.5	0.069	1.026	0.071
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g			

➤ LTE 10MHz QPSK 1RB Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band5/RB#49	Front	20600	844.0	23.78	-0.08	24.0	0.270	1.052	0.284
32	Band5/RB#49	Back	20600	844.0	23.78	-0.04	24.0	0.350	1.052	0.368
	Band5/RB#49	Left	20600	844.0	23.78	0.05	24.0	0.215	1.052	0.226
	Band5/RB#49	Top	20600	844.0	23.78	0.04	24.0	0.302	1.052	0.318

	Band17/RB#24	Front	23790	710.0	23.49	0.03	23.5	0.136	1.002	0.136	
33	Band17/RB#24	Back	23790	710.0	23.49	-0.06	23.5	0.138	1.002	0.138	
	Band17/RB#24	Left	23790	710.0	23.49	0.02	23.5	0.086	1.002	0.086	
	Band17/RB#24	Top	23790	710.0	23.49	-0.15	23.5	0.095	1.002	0.095	
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ TDD-LTE 20MHz QPSK 1RB Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	Band38/RB#49	Front	38150	2610.0	23.19	0.02	23.5	0.146	1.074	1.008	0.158
34	Band38/RB#49	Back	38150	2610.0	23.19	0.16	23.5	0.517	1.074	1.008	0.560
	Band38/RB#49	Left	38150	2610.0	23.19	-0.02	23.5	0.284	1.074	1.008	0.307
	Band38/RB#49	Top	38150	2610.0	23.19	-0.21	23.5	0.429	1.074	1.008	0.464
	Band41/RB#49	Front	40640	2595.0	23.23	0.12	23.5	0.143	1.064	1.008	0.153
	Band41/RB#49	Back	40640	2595.0	23.23	0.11	23.5	0.497	1.064	1.008	0.533
	Band41/RB#49	Left	40640	2595.0	23.23	0.06	23.5	0.328	1.064	1.008	0.352
51	Band41/RB#49	Top	40640	2595.0	23.23	-0.11	23.5	0.549	1.064	1.008	0.589
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ LTE 20MHz QPSK 50%RB Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	
	Band2/RB#0	Front	19100	1900	22.90	-0.01	23.0	0.055	1.023	0.056	
	Band2/RB#0	Back	19100	1900	22.90	-0.16	23.0	0.077	1.023	0.079	
	Band2/RB#0	Left	19100	1900	22.90	0.05	23.0	0.068	1.023	0.070	
52	Band2/RB#0	Top	19100	1900	22.90	-0.04	23.0	0.081	1.023	0.083	
	Band4/RB#49	Front	20175	1732.5	22.89	0.02	23.0	0.051	1.026	0.052	
	Band4/RB#49	Back	20175	1732.5	22.89	0.16	23.0	0.067	1.026	0.069	
	Band4/RB#49	Left	20175	1732.5	22.89	0.05	23.0	0.048	1.026	0.049	
53	Band4/RB#49	Top	20175	1732.5	22.89	-0.21	23.0	0.083	1.026	0.085	
	Band7/RB#24	Front	21350	2560.0	22.55	0.03	23.0	0.012	1.109	0.013	
38	Band7/RB#24	Back	21350	2560.0	22.55	0.00	23.0	0.054	1.109	0.060	
	Band7/RB#24	Left	21350	2560.0	22.55	-0.01	23.0	0.033	1.109	0.037	
	Band7/RB#24	Top	21350	2560.0	22.55	-0.07	23.0	0.046	1.109	0.051	
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ LTE 10MHz QPSK 50%RB Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	
	Band5/RB#24	Front	20450	829.0	22.79	-0.04	23.0	0.189	1.050	0.200	
39	Band5/RB#24	Back	20450	829.0	22.79	-0.03	23.0	0.264	1.050	0.279	
	Band5/RB#24	Left	20450	829.0	22.79	-0.01	23.0	0.125	1.050	0.131	
	Band5/RB#24	Top	20450	829.0	22.79	0.02	23.0	0.213	1.050	0.224	
	Band17/RB#24	Front	23800	711.0	22.53	0.01	23.0	0.115	1.114	0.129	
40	Band17/RB#24	Back	23800	711.0	22.53	0.17	23.0	0.121	1.114	0.136	
	Band17/RB#24	Left	23800	711.0	22.53	-0.01	23.0	0.075	1.114	0.084	
	Band17/RB#24	Top	23800	711.0	22.53	-0.08	23.0	0.087	1.114	0.097	
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ TDD-LTE 20MHz QPSK 50%RB Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
41	Band38/RB#49	Front	38150	2610.0	22.32	-0.15	22.5	0.110	1.042	1.008	0.116
	Band38/RB#49	Back	38150	2610.0	22.32	-0.03	22.5	0.387	1.042	1.008	0.406
	Band38/RB#49	Left	38150	2610.0	22.32	-0.07	22.5	0.201	1.042	1.008	0.211
	Band38/RB#49	Top	38150	2610.0	22.32	0.14	22.5	0.346	1.042	1.008	0.363
54	Band41/RB#24	Front	40640	2595.0	22.30	0.03	22.5	0.119	1.047	1.008	0.126
	Band41/RB#24	Back	40640	2595.0	22.30	0.32	22.5	0.399	1.047	1.008	0.421
	Band41/RB#24	Left	40640	2595.0	22.30	0.05	22.5	0.243	1.047	1.008	0.256
	Band41/RB#24	Top	40640	2595.0	22.30	-0.06	22.5	0.418	1.047	1.008	0.441
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ WLAN 2.4GHz Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
55	2.4GHz/802.11b	Front	01	2412	16.72	0.00	17.0	0.041	1.067	1.01	0.044
	2.4GHz/802.11b	Back	01	2412	16.72	0.02	17.0	0.077	1.067	1.01	0.083
	2.4GHz/802.11b	Right	01	2412	16.72	0.00	17.0	0.031	1.067	1.01	0.033
	2.4GHz/802.11b	Top	01	2412	16.72	-0.04	17.0	0.084	1.067	1.01	0.091
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ WLAN 5.2GHz Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
56	5.2GHz/802.11a	Front	48	5240	9.18	0.00	9.5	0.021	1.076	1.02	0.023
	5.2GHz/802.11a	Back	48	5240	9.18	-0.01	9.5	0.031	1.076	1.02	0.034
	5.2GHz/802.11a	Right	48	5240	9.18	-0.06	9.5	0.044	1.076	1.02	0.048
	5.2GHz/802.11a	Top	48	5240	9.18	-0.04	9.5	0.091	1.076	1.02	0.100
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ WLAN 5.8GHz Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
45	5.8GHz/802.11a	Front	157	5785	12.32	0.03	12.5	0.010	1.042	1.02	0.011
	5.8GHz/802.11a	Back	157	5785	12.32	-0.02	12.5	0.037	1.042	1.02	0.039
	5.8GHz/802.11a	Right	157	5785	12.32	0.08	12.5	0.008	1.042	1.02	0.009
	5.8GHz/802.11a	Top	157	5785	12.32	-0.20	12.5	0.025	1.042	1.02	0.027
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

Note:

- Per KDB 447498 D01v06, for each exposure position, if the highest output channel Reported SAR ≤ 0.8W/kg, other channels SAR testing is not necessary.
- Additional WLAN SAR testing was performed for simultaneous transmission analysis.
- For Hotspot SAR testing, per KDB 941225 D06v02r01, for EUT dimension ≥ 9cm*5cm, the test distance is 10mm. SAR must be measured for all surfaces and sides with a transmitting antenna located within 2.5cm from that surface or edge.
- Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA output power is < 0.25dB higher than RMC 12.2kbps, or Reported SAR with RMC 12.2kbps setting is ≤ 1.2W/kg, HSDPA SAR evaluation can be excluded.

5. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8 W/kg.
6. Per KDB 648474 D04v01r03, when the Reported SAR for a body-worn accessory measured without a headset connected to the handset is > 1.2 W/kg, SAR testing with a headset connected to the handset is required.
7. Per KDB 941225 D05v02r05, 100% RB allocation SAR measurement is not required when the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel.
8. According to KDB 865664 D02v01r02, SAR plot is required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.
9. Highlight part of test data means repeated test.

15.4 Repeated SAR measurement

Band/ Mode	Test Position	CH.	Freq. (MHz)	Measured SAR (W/kg)				
				Original	1 st Repeated		2 nd Repeated	
					Value	Ratio	Value	Ratio
GSM850/Voice	Right Cheek	251	848.8	1.020	1.010	1.01	/	/
GSM850/Voice	Right Tilted	251	848.8	1.050	1.040	1.01	/	/
GSM850/Voice	Left Cheek	251	848.8	1.040	1.020	1.02	/	/
GSM850/Voice	Left Tilted	251	848.8	0.897	0.882	1.02	/	/
Band5/1RB#49	Right Cheek	20600	844.0	0.935	0.928	1.01	/	/
Band5/1RB#49	Right Tilted	20600	844.0	1.030	1.030	1.00	/	/
Band5/1RB#49	Left Cheek	20600	844.0	0.875	0.868	1.01	/	/
Band5/RB#49	Left Tilted	20600	844.0	0.895	0.894	1.00	/	/
Band5/50%RB#24	Right Tilted	20450	829.0	0.807	0.805	1.00	/	/
Band38/1RB#49	Right Cheek	38150	2610.0	0.876	0.875	1.00	/	/
Band38/1RB#49	Right Tilted	38150	2610.0	1.070	1.060	1.01	/	/
Band38/50%RB#49	Right Tilted	38150	2610.0	0.822	0.820	1.00	/	/
Band41/1RB#49	Right Tilted	40140	2545.0	1.040	1.030	1.01	/	/
Band41/50%RB#24	Right Tilted	40640	2595.0	0.806	0.801	1.01	/	/
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population				1.6 W/kg (mW/g) Averaged over 1g				

Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg
2. Per KDB 865664 D01v01r04, if the ratio of *original* and *repeated* is ≤ 1.2 and the measured SAR < 1.45 W/kg, only one repeated measurement is required.

15.5 Multi-Band Simultaneous Transmission Considerations

➤ **Simultaneous Transmission Capabilities**

According to FCC KDB Publication 447498 D01v06, transmitters are considered to be transmitting simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds. Possible transmission paths for the EUT are shown in below Figure and are color-coded to indicate communication modes which share the same path. Modes which share the same transmission path cannot transmit simultaneously with one another.



Fig.15.1 Simultaneous Transmission Paths

➤ **Simultaneous Transmission Procedures**

This device contains transmitters that may operate simultaneously. Therefore simultaneous transmission analysis is required. Per FCC KDB 447498 D01v06, simultaneous transmission SAR test exclusion may be applied when the sum of the 1-g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is ≤ 1.6 W/kg. When standalone SAR is not required to be measured, per FCC KDB 447498 D01v06 4.3.2), the following equation must be used to estimate the standalone 1g SAR for simultaneous transmission assessment involving that transmitter.

$$\text{Estimated SAR} = \frac{\sqrt{f(\text{GHz})}}{7.5} \cdot \frac{\text{Max. power of channel, mW}}{\text{Min. Separation Distance, mm}}$$

Mode	Max. tune-up Power (dBm)	Exposure Position	Head	Body	Hotspot
		Test Distance (mm)	0	10	10
Bluetooth	6.0	Estimated SAR (W/kg)	0.165	0.082	0.082

Note:

- When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according is applied to determine estimated SAR.

➤ **Multi-Band simultaneous Transmission Consideration**

Simultaneous Transmission Consideration	Position	Applicable Combination
	Head	WWAN (Voice) + WLAN 2.4 GHz/5.2GHz/5.8GHz
		WWAN (Voice) + Bluetooth
	Body	WWAN (Voice) + WLAN 2.4 GHz/5.2GHz/5.8GHz
		WWAN (Voice) + Bluetooth
	Hotspot	WWAN (Data) + WLAN 2.4 GHz/5.2GHz/5.8GHz
WWAN (Data) + Bluetooth		

Note:

- WLAN 2.4GHz Band, WLAN 5.2GHz Band, WLAN 5.8GHz Band and Bluetooth share the same antenna, and cannot transmit simultaneously.
- GSM/WCDMA/LTE shares the same antenna, and cannot transmit simultaneously.
- The Report SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - Scalar SAR summation < 1.6 W/kg.
 - $SPLSR = (SAR_1 + SAR_2)^{1.5} / (min. separation distance, mm)$, and the peak separation distance is determined from the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary
 - Simultaneously transmission SAR measurement, and the Reported multi-band SAR < 1.6 W/kg

15.6 SAR Simultaneous Transmission Analysis

> Head Simultaneous Transmission

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
GSM850	Right Cheek	1.139	0.063	1.202	GSM850	Right Cheek	1.139	0.165	1.304
	Right Tilted	1.173	0.096	1.269		Right Tilted	1.173	0.165	1.338
	Left Cheek	1.162	0.221	1.383		Left Cheek	1.162	0.165	1.327
	Left Tilted	1.002	0.238	1.240		Left Tilted	1.002	0.165	1.167

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
GSM 1900	Right Cheek	0.331	0.063	0.394	GSM 1900	Right Cheek	0.331	0.165	0.496
	Right Tilted	0.458	0.096	0.554		Right Tilted	0.458	0.165	0.623
	Left Cheek	0.228	0.221	0.449		Left Cheek	0.228	0.165	0.393
	Left Tilted	0.272	0.238	0.510		Left Tilted	0.272	0.165	0.437

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
WCDMA Band V	Right Cheek	0.580	0.063	0.643	WCDMA Band V	Right Cheek	0.580	0.165	0.745
	Right Tilted	0.551	0.096	0.647		Right Tilted	0.551	0.165	0.716
	Left Cheek	0.454	0.221	0.675		Left Cheek	0.454	0.165	0.619
	Left Tilted	0.403	0.238	0.641		Left Tilted	0.403	0.165	0.568

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
WCDMA Band II	Right Cheek	0.299	0.063	0.362	WCDMA Band II	Right Cheek	0.299	0.165	0.464
	Right Tilted	0.357	0.096	0.453		Right Tilted	0.357	0.165	0.522
	Left Cheek	0.222	0.221	0.443		Left Cheek	0.222	0.165	0.387
	Left Tilted	0.256	0.238	0.494		Left Tilted	0.256	0.165	0.421

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 2	Right Cheek	0.154	0.063	0.217	LTE Band 2	Right Cheek	0.154	0.165	0.319
	Right Tilted	0.226	0.096	0.322		Right Tilted	0.226	0.165	0.391
	Left Cheek	0.115	0.221	0.336		Left Cheek	0.115	0.165	0.280
	Left Tilted	0.185	0.238	0.423		Left Tilted	0.185	0.165	0.350

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 4	Right Cheek	0.206	0.063	0.269	LTE Band 4	Right Cheek	0.206	0.165	0.371
	Right Tilted	0.282	0.096	0.378		Right Tilted	0.282	0.165	0.447
	Left Cheek	0.147	0.221	0.368		Left Cheek	0.147	0.165	0.312
	Left Tilted	0.173	0.238	0.411		Left Tilted	0.173	0.165	0.338

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 5	Right Cheek	0.984	0.063	1.047	LTE Band 5	Right Cheek	0.984	0.165	1.149
	Right Tilted	1.084	0.096	1.180		Right Tilted	1.084	0.165	1.249
	Left Cheek	0.921	0.221	1.142		Left Cheek	0.921	0.165	1.086
	Left Tilted	0.942	0.238	1.180		Left Tilted	0.942	0.165	1.107

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 7	Right Cheek	0.073	0.063	0.136	LTE Band 7	Right Cheek	0.073	0.165	0.238
	Right Tilted	0.195	0.096	0.291		Right Tilted	0.195	0.165	0.360
	Left Cheek	0.052	0.221	0.273		Left Cheek	0.052	0.165	0.217
	Left Tilted	0.124	0.238	0.362		Left Tilted	0.124	0.165	0.289

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 17	Right Cheek	0.628	0.063	0.691	LTE Band 17	Right Cheek	0.628	0.165	0.793
	Right Tilted	0.570	0.096	0.666		Right Tilted	0.570	0.165	0.735
	Left Cheek	0.426	0.221	0.647		Left Cheek	0.426	0.165	0.591
	Left Tilted	0.387	0.238	0.625		Left Tilted	0.387	0.165	0.552

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 38	Right Cheek	0.948	0.063	1.011	LTE Band 38	Right Cheek	0.948	0.165	1.113
	Right Tilted	1.158	0.096	1.254		Right Tilted	1.158	0.165	1.323
	Left Cheek	0.467	0.221	0.688		Left Cheek	0.467	0.165	0.632
	Left Tilted	0.615	0.238	0.853		Left Tilted	0.615	0.165	0.780

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 41	Right Cheek	0.791	0.063	0.854	LTE Band 41	Right Cheek	0.791	0.165	0.956
	Right Tilted	1.119	0.096	1.215		Right Tilted	1.119	0.165	1.284
	Left Cheek	0.194	0.221	0.415		Left Cheek	0.194	0.165	0.359
	Left Tilted	0.324	0.238	0.562		Left Tilted	0.324	0.165	0.489

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
GSM850	Right Cheek	1.139	0.105	1.244	GSM850	Right Cheek	1.139	0.050	1.139
	Right Tilted	1.173	0.142	1.315		Right Tilted	1.173	0.073	1.173
	Left Cheek	1.162	0.146	1.308		Left Cheek	1.162	0.072	1.162
	Left Tilted	1.002	0.200	1.202		Left Tilted	1.002	0.143	1.002

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
GSM 1900	Right Cheek	0.331	0.105	0.436	GSM 1900	Right Cheek	0.331	0.050	0.381
	Right Tilted	0.458	0.142	0.600		Right Tilted	0.458	0.073	0.531
	Left Cheek	0.228	0.146	0.374		Left Cheek	0.228	0.072	0.300
	Left Tilted	0.272	0.200	0.472		Left Tilted	0.272	0.143	0.415

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
WCDMA Band V	Right Cheek	0.580	0.105	0.685	WCDMA Band V	Right Cheek	0.580	0.050	0.630
	Right Tilted	0.551	0.142	0.693		Right Tilted	0.551	0.073	0.624
	Left Cheek	0.454	0.146	0.600		Left Cheek	0.454	0.072	0.526
	Left Tilted	0.403	0.200	0.603		Left Tilted	0.403	0.143	0.546

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
WCDMA Band II	Right Cheek	0.299	0.105	0.404	WCDMA Band II	Right Cheek	0.299	0.050	0.349
	Right Tilted	0.357	0.142	0.499		Right Tilted	0.357	0.073	0.43
	Left Cheek	0.222	0.146	0.368		Left Cheek	0.222	0.072	0.294
	Left Tilted	0.256	0.200	0.456		Left Tilted	0.256	0.143	0.399

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 2	Right Cheek	0.299	0.105	0.404	LTE Band 2	Right Cheek	0.299	0.050	0.349
	Right Tilted	0.357	0.142	0.499		Right Tilted	0.357	0.073	0.430
	Left Cheek	0.222	0.146	0.368		Left Cheek	0.222	0.072	0.294
	Left Tilted	0.256	0.200	0.456		Left Tilted	0.256	0.143	0.399

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 4	Right Cheek	0.206	0.105	0.311	LTE Band 4	Right Cheek	0.206	0.050	0.256
	Right Tilted	0.282	0.142	0.424		Right Tilted	0.282	0.073	0.355
	Left Cheek	0.147	0.146	0.293		Left Cheek	0.147	0.072	0.219
	Left Tilted	0.173	0.200	0.373		Left Tilted	0.173	0.143	0.316

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 5	Right Cheek	0.984	0.105	1.089	LTE Band 5	Right Cheek	0.984	0.050	1.034
	Right Tilted	1.084	0.142	1.226		Right Tilted	1.084	0.073	1.157
	Left Cheek	0.921	0.146	1.067		Left Cheek	0.921	0.072	0.993
	Left Tilted	0.942	0.200	1.142		Left Tilted	0.942	0.143	1.085

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 7	Right Cheek	0.073	0.105	0.178	LTE Band 7	Right Cheek	0.073	0.050	0.123
	Right Tilted	0.195	0.142	0.337		Right Tilted	0.195	0.073	0.268
	Left Cheek	0.052	0.146	0.198		Left Cheek	0.052	0.072	0.124
	Left Tilted	0.124	0.200	0.324		Left Tilted	0.124	0.143	0.267

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 17	Right Cheek	0.628	0.105	0.733	LTE Band 17	Right Cheek	0.628	0.050	0.678
	Right Tilted	0.570	0.142	0.712		Right Tilted	0.570	0.073	0.643
	Left Cheek	0.426	0.146	0.572		Left Cheek	0.426	0.072	0.498
	Left Tilted	0.387	0.200	0.587		Left Tilted	0.387	0.143	0.530

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 38	Right Cheek	0.948	0.105	1.053	LTE Band 38	Right Cheek	0.948	0.050	0.998
	Right Tilted	1.158	0.142	1.300		Right Tilted	1.158	0.073	1.231
	Left Cheek	0.467	0.146	0.613		Left Cheek	0.467	0.072	0.539
	Left Tilted	0.615	0.200	0.815		Left Tilted	0.615	0.143	0.758

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 41	Right Cheek	0.791	0.105	0.896	LTE Band 41	Right Cheek	0.791	0.050	0.841
	Right Tilted	1.119	0.142	1.261		Right Tilted	1.119	0.073	1.192
	Left Cheek	0.194	0.146	0.340		Left Cheek	0.194	0.072	0.266
	Left Tilted	0.324	0.200	0.524		Left Tilted	0.324	0.143	0.467

> Body worn Simultaneous Transmission

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
GSM850	Front	0.241	0.044	0.285	GSM850	Front	0.241	0.082	0.323
	Back	0.317	0.083	0.400		Back	0.317	0.082	0.399

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
GSM 1900	Front	0.278	0.044	0.322	GSM 1900	Front	0.278	0.082	0.360
	Back	0.351	0.083	0.434		Back	0.351	0.082	0.433

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
WCDMA Band V	Front	0.154	0.044	0.198	WCDMA Band V	Front	0.154	0.082	0.236
	Back	0.279	0.083	0.362		Back	0.279	0.082	0.361

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
WCDMA Band II	Front	0.067	0.044	0.111	WCDMA Band II	Front	0.067	0.082	0.149
	Back	0.113	0.083	0.196		Back	0.113	0.082	0.195

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 2	Front	0.056	0.044	0.100	LTE Band 2	Front	0.056	0.082	0.138
	Back	0.079	0.083	0.162		Back	0.079	0.082	0.161

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 4	Front	0.076	0.044	0.120	LTE Band 4	Front	0.076	0.082	0.158
	Back	0.096	0.083	0.179		Back	0.096	0.082	0.178

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 5	Front	0.284	0.044	0.328	LTE Band 5	Front	0.284	0.082	0.366
	Back	0.368	0.083	0.451		Back	0.368	0.082	0.450

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 7	Front	0.023	0.044	0.067	LTE Band 7	Front	0.023	0.082	0.105
	Back	0.083	0.083	0.166		Back	0.083	0.082	0.165

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 17	Front	0.136	0.044	0.180	LTE Band 17	Front	0.136	0.082	0.218
	Back	0.138	0.083	0.221		Back	0.138	0.082	0.220

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 38	Front	0.158	0.044	0.202	LTE Band 17	Front	0.158	0.082	0.240
	Back	0.560	0.083	0.643		Back	0.560	0.082	0.642

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 41	Front	0.153	0.044	0.197	LTE Band 41	Front	0.153	0.082	0.235
	Back	0.533	0.083	0.616		Back	0.533	0.082	0.615

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHzWLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
GSM850	Front	0.241	0.023	0.264	GSM850	Front	0.241	0.011	0.252
	Back	0.317	0.034	0.351		Back	0.317	0.039	0.356

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHzWLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
GSM 1900	Front	0.278	0.023	0.301	GSM 1900	Front	0.278	0.011	0.289
	Back	0.351	0.034	0.385		Back	0.351	0.039	0.390

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHzWLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
WCDMA Band V	Front	0.154	0.023	0.177	WCDMA Band V	Front	0.154	0.011	0.165
	Back	0.279	0.034	0.313		Back	0.279	0.039	0.318

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHzWLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
WCDMA Band II	Front	0.067	0.023	0.090	WCDMA Band II	Front	0.067	0.011	0.078
	Back	0.113	0.034	0.147		Back	0.113	0.039	0.152

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHzWLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 2	Front	0.056	0.023	0.079	LTE Band 2	Front	0.056	0.011	0.067
	Back	0.079	0.034	0.113		Back	0.079	0.039	0.118

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHzWLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 4	Front	0.076	0.023	0.099	LTE Band 4	Front	0.076	0.011	0.087
	Back	0.096	0.034	0.130		Back	0.096	0.039	0.135

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHzWLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 5	Front	0.284	0.023	0.307	LTE Band 5	Front	0.284	0.011	0.295
	Back	0.368	0.034	0.402		Back	0.368	0.039	0.407

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHzWLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 7	Front	0.023	0.023	0.046	LTE Band 7	Front	0.023	0.011	0.034
	Back	0.083	0.034	0.117		Back	0.083	0.039	0.122

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHzWLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 17	Front	0.136	0.023	0.159	LTE Band 17	Front	0.136	0.011	0.147
	Back	0.138	0.034	0.172		Back	0.138	0.039	0.177

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHzWLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 38	Front	0.158	0.023	0.181	LTE Band 17	Front	0.158	0.011	0.169
	Back	0.560	0.034	0.594		Back	0.560	0.039	0.599

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHzWLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 41	Front	0.153	0.023	0.176	LTE Band 41	Front	0.153	0.011	0.164
	Back	0.533	0.034	0.567		Back	0.533	0.039	0.572

➤ Hotspot mode Simultaneous Transmission

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
GSM850	Front	0.410	0.044	0.454	GSM850	Front	0.410	0.082	0.492
	Back	0.469	0.083	0.552		Back	0.469	0.082	0.551
	Left	0.216	/	0.216		Left	0.216	/	0.216
	Right	/	0.033	0.033		Right	/	0.082	0.082
	Top	0.285	0.091	0.376		Top	0.285	0.082	0.367
	Bottom	/	/	/		Bottom	/	/	/

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
GSM 1900	Front	0.587	0.044	0.631	GSM 1900	Front	0.587	0.082	0.669
	Back	0.671	0.083	0.754		Back	0.671	0.082	0.753
	Left	0.234	/	0.234		Left	0.234	/	0.234
	Right	/	0.033	0.033		Right	/	0.082	0.082
	Top	0.311	0.091	0.402		Top	0.311	0.082	0.393
	Bottom	/	/	/		Bottom	/	/	/

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
WCDMA Band V	Front	0.154	0.044	0.198	WCDMA Band V	Front	0.154	0.082	0.236
	Back	0.279	0.083	0.362		Back	0.279	0.082	0.361
	Left	0.125	/	0.125		Left	0.125	/	0.125
	Right	/	0.033	0.033		Right	/	0.082	0.082
	Top	0.154	0.091	0.245		Top	0.154	0.082	0.236
	Bottom	/	/	/		Bottom	/	/	/

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
WCDMA Band II	Front	0.067	0.044	0.111	WCDMA Band II	Front	0.067	0.082	0.149
	Back	0.113	0.083	0.196		Back	0.113	0.082	0.195
	Left	0.083	/	0.083		Left	0.083	/	0.083
	Right	/	0.033	0.033		Right	/	0.082	0.082
	Top	0.137	0.091	0.228		Top	0.137	0.082	0.219
	Bottom	/	/	/		Bottom	/	/	/

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 2	Front	0.056	0.044	0.100	LTE Band 2	Front	0.056	0.082	0.138
	Back	0.079	0.083	0.162		Back	0.079	0.082	0.161
	Left	0.070	/	0.070		Left	0.070	/	0.070
	Right	/	0.033	0.033		Right	/	0.082	0.082
	Top	0.083	0.091	0.174		Top	0.083	0.082	0.165
	Bottom	/	/	/		Bottom	/	/	/

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 4	Front	0.076	0.044	0.120	LTE Band 4	Front	0.076	0.082	0.158
	Back	0.096	0.083	0.179		Back	0.096	0.082	0.178
	Left	0.063	/	0.063		Left	0.063	/	0.063
	Right	/	0.033	0.033		Right	/	0.082	0.082
	Top	0.120	0.091	0.211		Top	0.120	0.082	0.202
	Bottom	/	/	/		Bottom	/	/	/

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 5	Front	0.284	0.044	0.328	LTE Band 5	Front	0.284	0.082	0.366
	Back	0.368	0.083	0.451		Back	0.368	0.082	0.450
	Left	0.226	/	0.226		Left	0.226	/	0.226
	Right	/	0.033	0.033		Right	/	0.082	0.082
	Top	0.318	0.091	0.409		Top	0.318	0.082	0.400
	Bottom	/	/	/		Bottom	/	/	/

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 7	Front	0.023	0.044	0.067	LTE Band 7	Front	0.023	0.082	0.105
	Back	0.083	0.083	0.166		Back	0.083	0.082	0.165
	Left	0.043	/	0.043		Left	0.043	/	0.043
	Right	/	0.033	0.033		Right	/	0.082	0.082
	Top	0.071	0.091	0.162		Top	0.071	0.082	0.153
	Bottom	/	/	/		Bottom	/	/	/

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 17	Front	0.136	0.044	0.18	LTE Band 17	Front	0.136	0.082	0.218
	Back	0.138	0.083	0.221		Back	0.138	0.082	0.22
	Left	0.086	/	0.086		Left	0.086	/	0.086
	Right	/	0.033	0.033		Right	/	0.082	0.082
	Top	0.097	0.091	0.188		Top	0.097	0.082	0.179
	Bottom	/	/	/		Bottom	/	/	/

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 38	Front	0.158	0.044	0.202	LTE Band 38	Front	0.158	0.082	0.24
	Back	0.560	0.083	0.643		Back	0.560	0.082	0.642
	Left	0.307	/	0.307		Left	0.307	/	0.307
	Right	/	0.033	0.033		Right	/	0.082	0.082
	Top	0.464	0.091	0.555		Top	0.464	0.082	0.546
	Bottom	/	/	/		Bottom	/	/	/

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	Bluetooth Estimated SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 41	Front	0.153	0.044	0.197	LTE Band 41	Front	0.153	0.082	0.235
	Back	0.533	0.083	0.616		Back	0.533	0.082	0.615
	Left	0.352	/	0.352		Left	0.352	/	0.352
	Right	/	0.033	0.033		Right	/	0.082	0.082
	Top	0.589	0.091	0.68		Top	0.589	0.082	0.671
	Bottom	/	/	/		Bottom	/	/	/

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
GSM850	Front	0.410	0.023	0.433	GSM850	Front	0.410	0.011	0.421
	Back	0.469	0.034	0.503		Back	0.469	0.039	0.508
	Left	0.216	/	0.216		Left	0.216	/	0.216
	Right	/	0.048	0.048		Right	/	0.009	0.009
	Top	0.285	0.100	0.385		Top	0.285	0.027	0.312
	Bottom	/	/	/		Bottom	/	/	/

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHzW LAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
GSM 1900	Front	0.587	0.023	0.610	GSM 1900	Front	0.587	0.011	0.598
	Back	0.671	0.034	0.705		Back	0.671	0.039	0.710
	Left	0.234	/	0.234		Left	0.234	/	0.234
	Right	/	0.048	0.048		Right	/	0.009	0.009
	Top	0.311	0.100	0.411		Top	0.311	0.027	0.338
	Bottom	/	/	/		Bottom	/	/	/

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHzW LAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
WCDMA Band V	Front	0.154	0.023	0.177	WCDMA Band V	Front	0.154	0.011	0.165
	Back	0.279	0.034	0.313		Back	0.279	0.039	0.318
	Left	0.125	/	0.125		Left	0.125	/	0.125
	Right	/	0.048	0.048		Right	/	0.009	0.009
	Top	0.154	0.100	0.254		Top	0.154	0.027	0.181
	Bottom	/	/	/		Bottom	/	/	/

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHzW LAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
WCDMA Band II	Front	0.067	0.023	0.090	WCDMA Band II	Front	0.067	0.011	0.078
	Back	0.113	0.034	0.147		Back	0.113	0.039	0.152
	Left	0.083	/	0.083		Left	0.083	/	0.083
	Right	/	0.048	0.048		Right	/	0.009	0.009
	Top	0.137	0.100	0.237		Top	0.137	0.027	0.164
	Bottom	/	/	/		Bottom	/	/	/

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHzW LAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 2	Front	0.056	0.023	0.079	LTE Band 2	Front	0.056	0.011	0.067
	Back	0.079	0.034	0.113		Back	0.079	0.039	0.118
	Left	0.070	/	0.070		Left	0.070	/	0.070
	Right	/	0.048	0.048		Right	/	0.009	0.009
	Top	0.083	0.100	0.183		Top	0.083	0.027	0.110
	Bottom	/	/	/		Bottom	/	/	/

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHzW LAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 4	Front	0.076	0.023	0.099	LTE Band 4	Front	0.076	0.011	0.087
	Back	0.096	0.034	0.130		Back	0.096	0.039	0.135
	Left	0.063	/	0.063		Left	0.063	/	0.063
	Right	/	0.048	0.048		Right	/	0.009	0.009
	Top	0.120	0.100	0.220		Top	0.120	0.027	0.147
	Bottom	/	/	/		Bottom	/	/	/

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHzW LAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 5	Front	0.284	0.023	0.307	LTE Band 5	Front	0.284	0.011	0.295
	Back	0.368	0.034	0.402		Back	0.368	0.039	0.407
	Left	0.226	/	0.226		Left	0.226	/	0.226
	Right	/	0.048	0.048		Right	/	0.009	0.009
	Top	0.318	0.100	0.418		Top	0.318	0.027	0.345
	Bottom	/	/	/		Bottom	/	/	/

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHzW LAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 7	Front	0.023	0.023	0.046	LTE Band 7	Front	0.023	0.011	0.034
	Back	0.083	0.034	0.117		Back	0.083	0.039	0.122
	Left	0.043	/	0.043		Left	0.043	/	0.043
	Right	/	0.048	0.048		Right	/	0.009	0.009
	Top	0.071	0.100	0.171		Top	0.071	0.027	0.098
	Bottom	/	/	/		Bottom	/	/	/

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHzW LAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 17	Front	0.136	0.023	0.159	LTE Band 17	Front	0.136	0.011	0.147
	Back	0.138	0.034	0.172		Back	0.138	0.039	0.177
	Left	0.086	/	0.086		Left	0.086	/	0.086
	Right	/	0.048	0.048		Right	/	0.009	0.009
	Top	0.097	0.100	0.197		Top	0.097	0.027	0.124
	Bottom	/	/	/		Bottom	/	/	/

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHzWLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 38	Front	0.158	0.023	0.181	LTE Band 38	Front	0.158	0.011	0.169
	Back	0.560	0.034	0.594		Back	0.560	0.039	0.599
	Left	0.307	/	0.307		Left	0.307	/	0.307
	Right	/	0.048	0.048		Right	/	0.009	0.009
	Top	0.464	0.100	0.564		Top	0.464	0.027	0.491
	Bottom	/	/	/		Bottom	/	/	/

WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.2GHz WLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)	WWAN Mode	Position	WWAN SAR _{1g} (W/kg)	5.8GHzWLAN SAR _{1g} (W/kg)	Σ SAR (W/kg)
LTE Band 41	Front	0.153	0.023	0.176	LTE Band 41	Front	0.153	0.011	0.164
	Back	0.533	0.034	0.567		Back	0.533	0.039	0.572
	Left	0.352	/	0.352		Left	0.352	/	0.352
	Right	/	0.048	0.048		Right	/	0.009	0.009
	Top	0.589	0.100	0.689		Top	0.589	0.027	0.616
	Bottom	/	/	/		Bottom	/	/	/

➤ **Simultaneous Transmission Conclusion**

The above numerical summed SAR results for all the case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06.

15.7 Measurement Uncertainty

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A Type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture’s specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in below Table.

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor	1/k(b)	$1/\sqrt{3}$	$1/\sqrt{6}$	$1/\sqrt{2}$

Standard Uncertainty for Assumed Distribution

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual “root-sum-squares” (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

Uncertainty Component	Section	Uncert. Value	Prob. Dist.	Div.	(C _i) (1 g)	(C _i) (10 g)	Std. Unc. (1 g)	Std. Unc. (10 g)	V _i
Measurement System									
Probe Calibration	E.2.1	±7.4%	N	1	1	1	±7.4%	±7.4%	∞
Axial Isotropy	E.2.2	±1.2%	R	√3	0.7	0.7	±0.49%	±0.49%	∞
Hemispherical Isotropy	E.2.2	±0.9%	R	√3	0.7	0.7	±0.36%	±0.36%	∞
Boundary Effects	E.2.3	±1.0%	R	√3	1	1	±0.58%	±0.58%	∞
Linearity	E.2.4	±0.9%	R	√3	1	1	±0.52%	±0.52%	∞
System Detection Limits	E.2.5	±0.25%	R	√3	1	1	±0.14%	±0.14%	∞
Readout Electronics	E.2.6	±0.3%	N	1	1	1	±0.3%	±0.3%	∞
Response Time	E.2.7	±0.8%	R	√3	1	1	±0.46%	±0.46%	∞
Integration Time	E.2.8	±2.6%	R	√3	1	1	±1.5%	±1.5%	∞
RF Ambient Noise	E.6.1	±3.0%	R	√3	1	1	±1.73%	±1.73%	∞
RF Ambient Reflections	E.6.1	±3.0%	R	√3	1	1	±1.73%	±1.73%	∞
Probe positioner mechanical tolerances	E.6.2	±0.4%	R	√3	1	1	±0.23%	±0.23%	∞
Probe positioning tolerance with respect to the phantom shell surface	E.6.3	±2.9%	R	√3	1	1	±1.68%	±1.68%	∞
Interpolation, extrapolation, and integration algorithm For max. SAR Evaluation.	E.5	±1.0%	R	√3	1	1	±0.58%	±0.58%	∞
Test Sample Related									
Device Positioning	E.4.2	±4.6%	N	1	1	1	±4.6%	±4.6%	M-1
Device Holder	E.4.1	±5.2%	N	1	1	1	±5.2%	±5.2%	M-1
Power Drift	6.6.2	±5.0%	R	√3	1	1	±2.89%	±2.89%	∞
Phantom and Setup									
Phantom Uncertainty	E.3.1	±4.0%	R	√3	1	1	±2.31%	±2.31%	∞
Liquid conductivity (measured value)	E.3.3	±3.33%	N	1	0.78	0.71	±2.6%	±2.6%	M
Liquid dielectric constant (measured value)	E.3.3	±3.25%	N	1	0.23	0.26	±0.75%	±0.85%	M
Liquid Conductivity - Temperature Uncertainty	E.3.4	±1.3%	R	√3	0.78	0.71	±0.59%	±0.53%	∞
Liquid Dielectric Constant - Temperature Uncertainty	E.3.4	±1.1%	R	√3	0.23	0.26	±0.15%	±0.17%	∞
Combined Standard Uncertainty (RSS)							±11.56%	±11.50%	
Expanded Uncertainty (95% Confidence Level, k = 2)							±23.11%	±23.0%	

Uncertainty Budget for frequency range 300 MHz to 3 GHz according to IEEE1528-2013

15.8 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Industry Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested. Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables.

16 Reference

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- [10]. FCC KDB 941225 D03 v01, “Recommended SAR Test Reduction Procedures for GSM / GPRS / EDGE”, December 2008
- [11]. FCC KDB 941225 D06 v02r01, “SAR EVALUATION PROCEDURES FOR PORTABLE DEVICES WITH WIRELESS ROUTER CAPABILITIES”, October 2015
- [12]. FCC KDB 865664 D01 v01r04, “SAR MEASUREMENT REQUIREMENTS FOR 100 MHz TO 6 GHz”, August 2015

Appendix A: Plots of SAR System Check

Test Laboratory: JYTSZ

Date/Time: 01.11.2021 08:37:54

DUT: Dipole 750 MHz; Type: D750V3; Serial: SN:1118

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.866 \text{ S/m}$; $\epsilon_r = 42.208$ $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

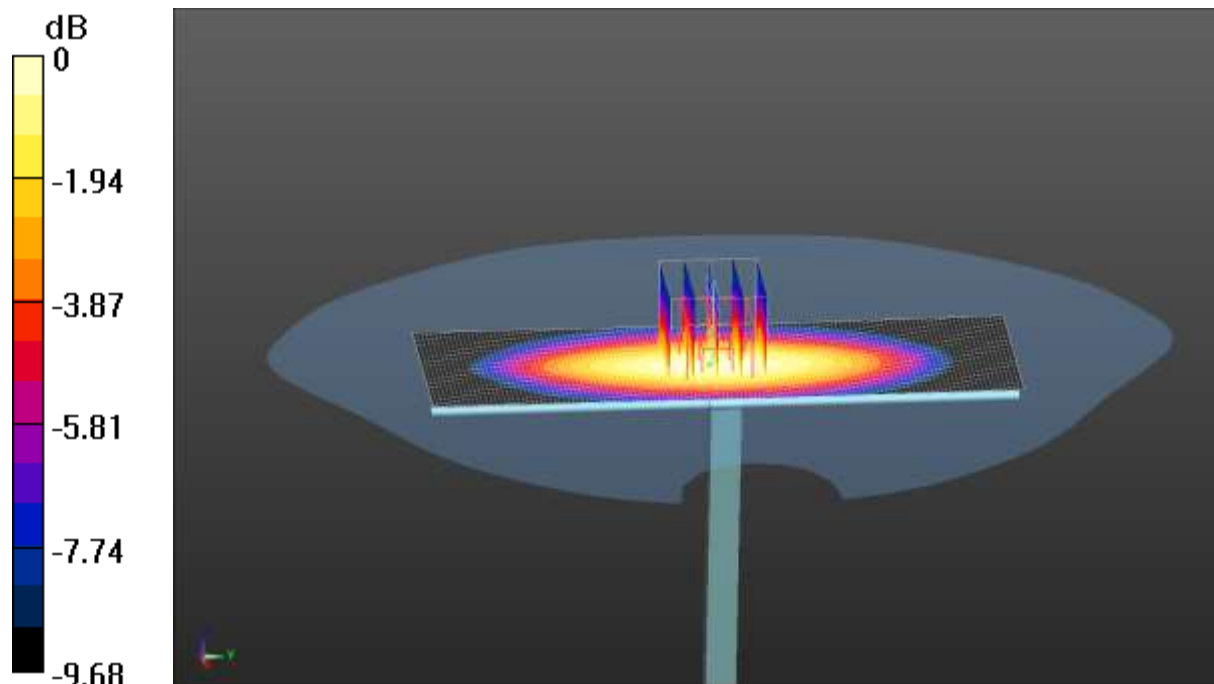
- Probe: EX3DV4 - SN3924; ConvF(10.11, 10.11, 10.11); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check at Frequency 750 MHz Head Tissue/d=15mm, Pin=80 mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 32.05 V/m; Power Drift = 0.09 dB
 Peak SAR (extrapolated) = 0.978 W/kg
SAR(1 g) = 0.671 W/kg; SAR(10 g) = 0.438 W/kg
 Maximum value of SAR (measured) = 0.891 W/kg

System Performance Check at Frequency 750 MHz Head Tissue/d=15mm, Pin=80 mW, dist=2.0mm (EX-Probe)/Area Scan (41x131x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.863 W/kg



0 dB = 0.863 W/kg = -0.64 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.11.2021 08:14:52

DUT: Dipole 835 MHz; Type: D835V2; Serial: SN:4d154

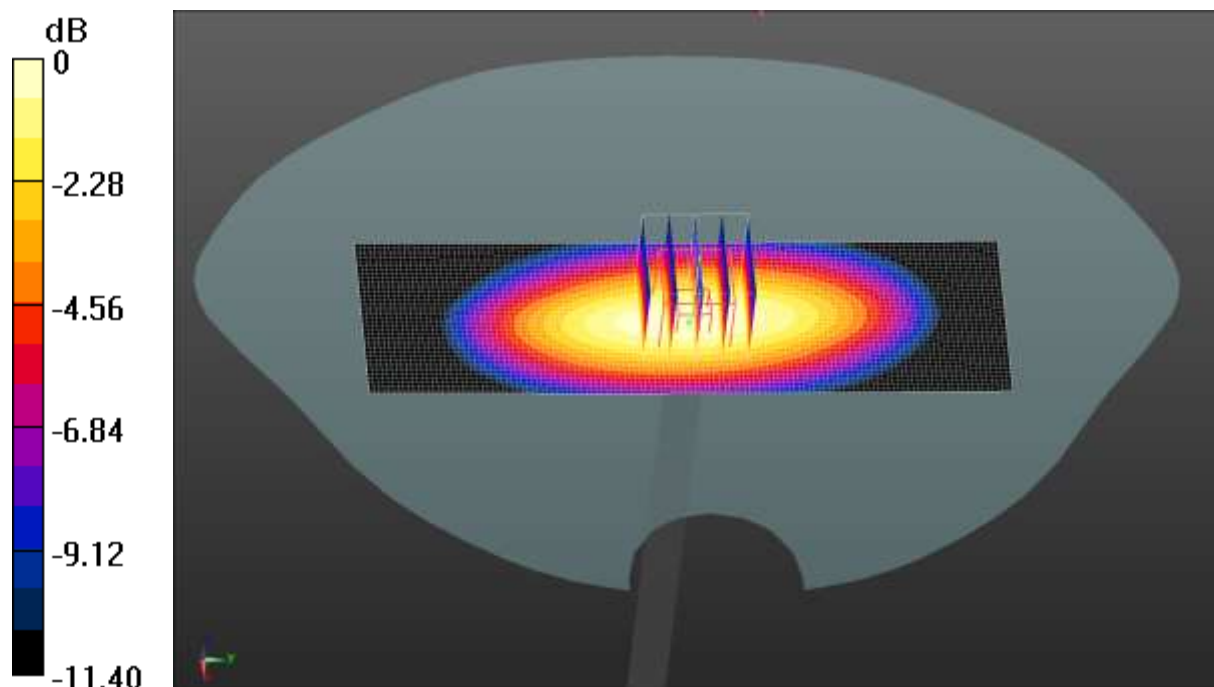
Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.892 \text{ S/m}$; $\epsilon_r = 41.825$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(9.71, 9.71, 9.71); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check at Frequency 835 MHz Head Tissue/d=15mm, Pin=80 mW, dist=2.0mm (EX-Probe)/Area Scan (41x131x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 0.977 W/kg

System Performance Check at Frequency 835 MHz Head Tissue/d=15mm, Pin=80 mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:
 Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 32.56V/m; Power Drift = 0.08 dB
 Peak SAR (extrapolated) = 1.05 W/kg
SAR(1 g) = 0.753 W/kg; SAR(10 g) = 0.496 W/kg
 Maximum value of SAR (measured) = 0.953 W/kg



0 dB = 0.953 W/kg = -0.21 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.21.2021 08:08:29

DUT: Dipole 1800 MHz; Type: SID1800; Serial: SN:09/15 DIP IG800-360

Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.383 \text{ S/m}$; $\epsilon_r = 40.358$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

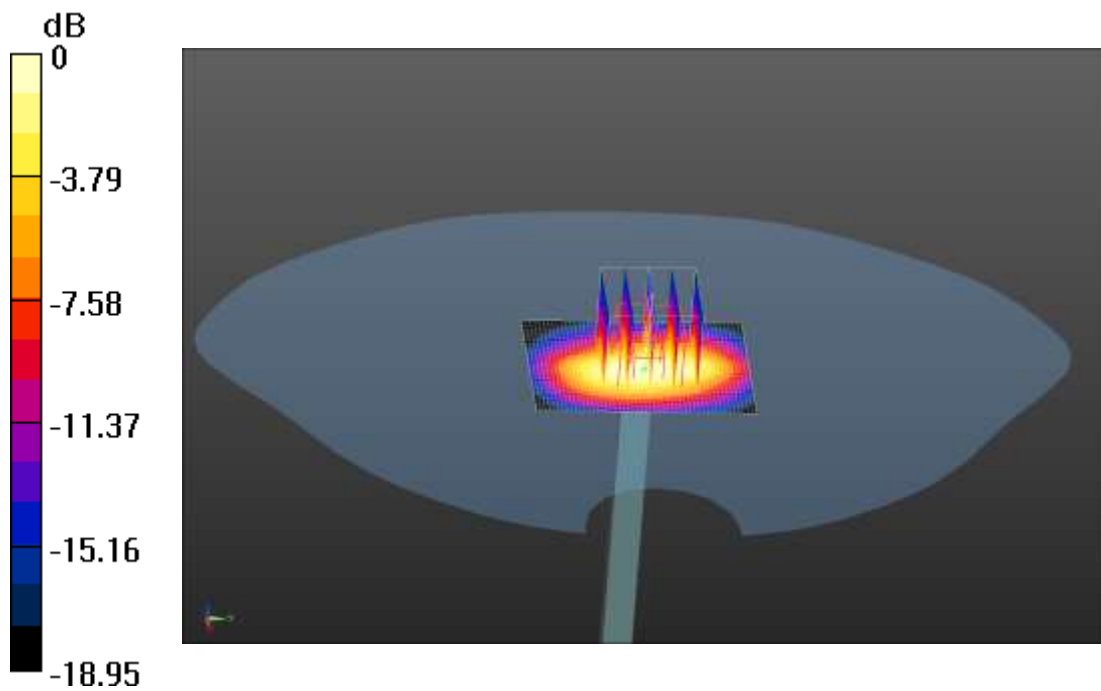
- Probe: EX3DV4 - SN3924; ConvF(8.43, 8.43, 8.43); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check at Frequency 1800MHz Head Tissue/d=10mm, Pin=40 mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 40.86 V/m; Power Drift = 0.08 dB
 Peak SAR (extrapolated) = 3.17 W/kg
SAR(1 g) = 1.56 W/kg; SAR(10 g) = 0.805 W/kg
 Maximum value of SAR (measured) = 2.38 W/kg

System Performance Check at Frequency 1800MHz Head Tissue/d=10mm, Pin=40 mW, dist=2.0mm (EX-Probe)/Area Scan (41x51x1): Interpolated grid:

$dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 2.52 W/kg



0 dB = 2.52 W/kg = 4.01 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.21.2021 08:30:11

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d175

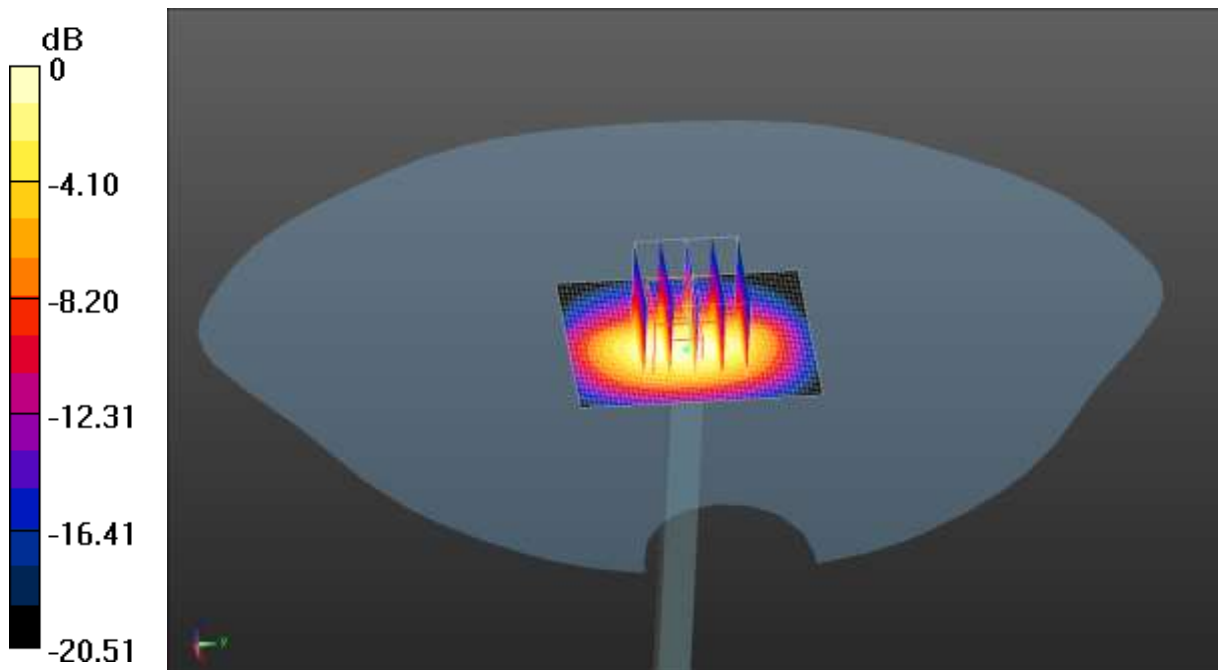
Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.412 \text{ S/m}$; $\epsilon_r = 39.905$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.14, 8.14, 8.14); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check at Frequency 1900MHz Head Tissue/d=10mm, Pin=40 mW, dist=2.0mm (EX-Probe)/Area Scan (41x51x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 2.62 W/kg

System Performance Check at Frequency 1900MHz Head Tissue/d=10mm, Pin=40 mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:
 Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 41.98 V/m; Power Drift = -0.03 dB
 Peak SAR (extrapolated) = 3.34 W/kg
SAR(1 g) = 1.62 W/kg; SAR(10 g) = 0.825 W/kg
 Maximum value of SAR (measured) = 2.43 W/kg



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

Test Laboratory: JYTSZ

Date/Time: 01.09.2021 08:12:31

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: SN:910

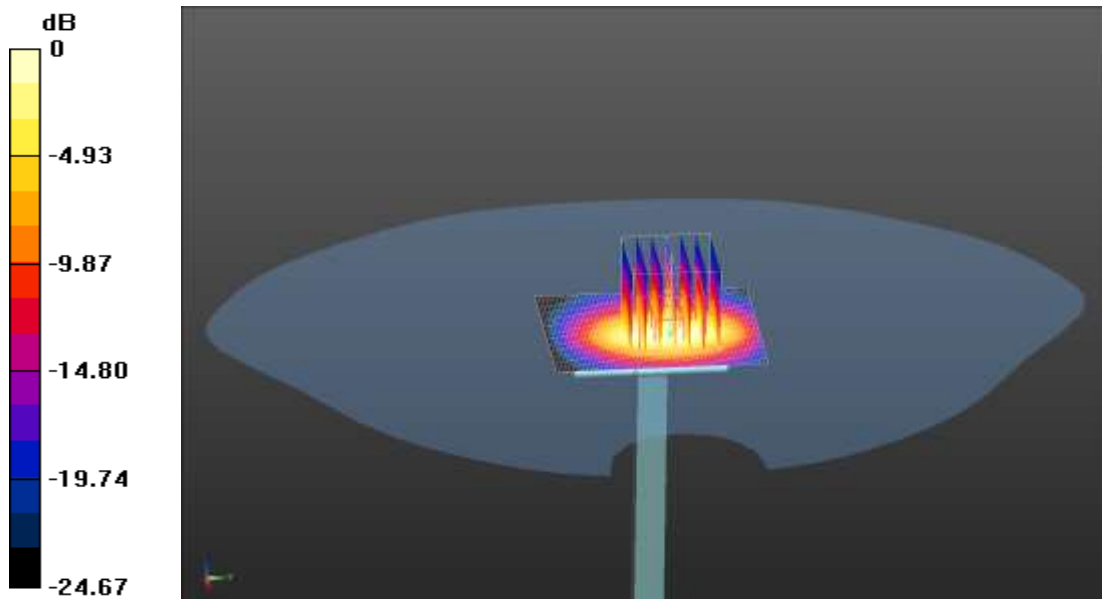
Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.824 \text{ S/m}$; $\epsilon_r = 38.686$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.58, 7.58, 7.58); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check at Frequency 2450MHz Head Tissue/d=10mm, Pin=40 mW, dist=2.0mm (EX-Probe)/Area Scan (51x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 3.66 W/kg

System Performance Check at Frequency 2450MHz Head Tissue/d=10mm, Pin=40 mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 41.19 V/m; Power Drift = -0.03 dB
 Peak SAR (extrapolated) = 4.92 W/kg
SAR(1 g) = 2.12 W/kg; SAR(10 g) = 0.966 W/kg
 Maximum value of SAR (measured) = 3.49 W/kg



0 dB = 3.49 W/kg = 5.43 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.09.2021 08:33:25

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: SN: 1114

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 2600 \text{ MHz}$; $\sigma = 2.013 \text{ S/m}$; $\epsilon_r = 38.112$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

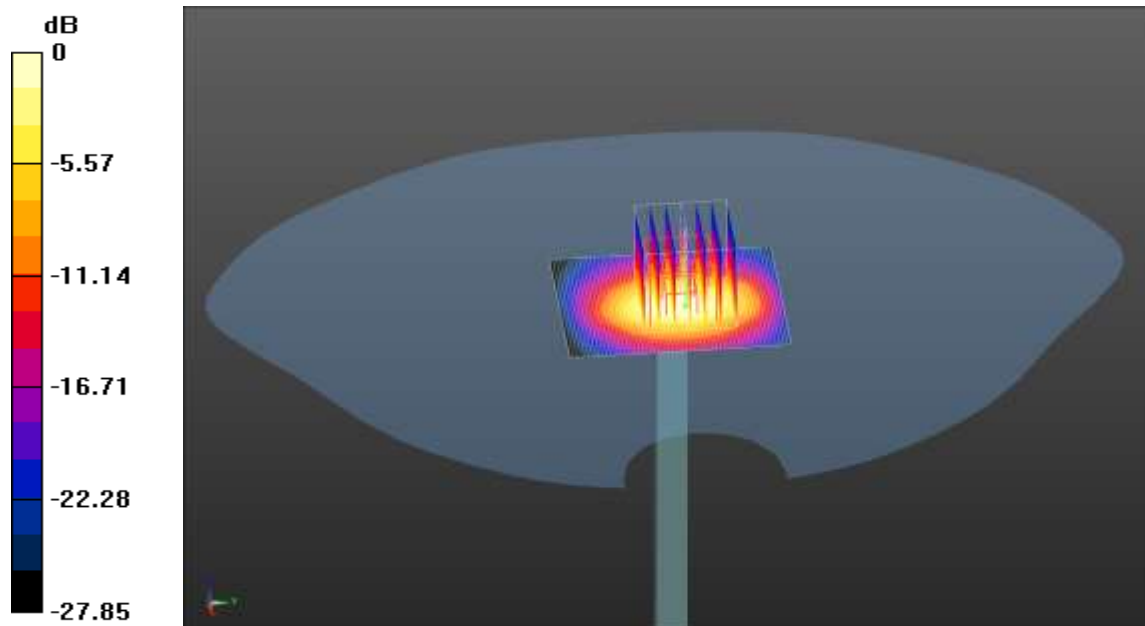
- Probe: EX3DV4 - SN3924; ConvF(7.35, 7.35, 7.35); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check at Frequency 2600MHz Head Tissue/d=10mm, Pin=40 mW, dist=2.0mm (EX-Probe)/Zoom Scan(7X7X7) (7x7x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 42.53 V/m; Power Drift = -0.07 dB
 Peak SAR (extrapolated) = 5.32 W/kg
SAR(1 g) = 2.31 W/kg; SAR(10 g) = 1.01 W/kg
 Maximum value of SAR (measured) = 3.84 W/kg

System Performance Check at Frequency 2600MHz Head Tissue/d=10mm, Pin=40 mW, dist=2.0mm (EX-Probe)/Area Scan (51x61x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 4.03 W/kg



0 dB = 4.03 W/kg = 6.05 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.19.2021 08:12:37

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: SN:1182

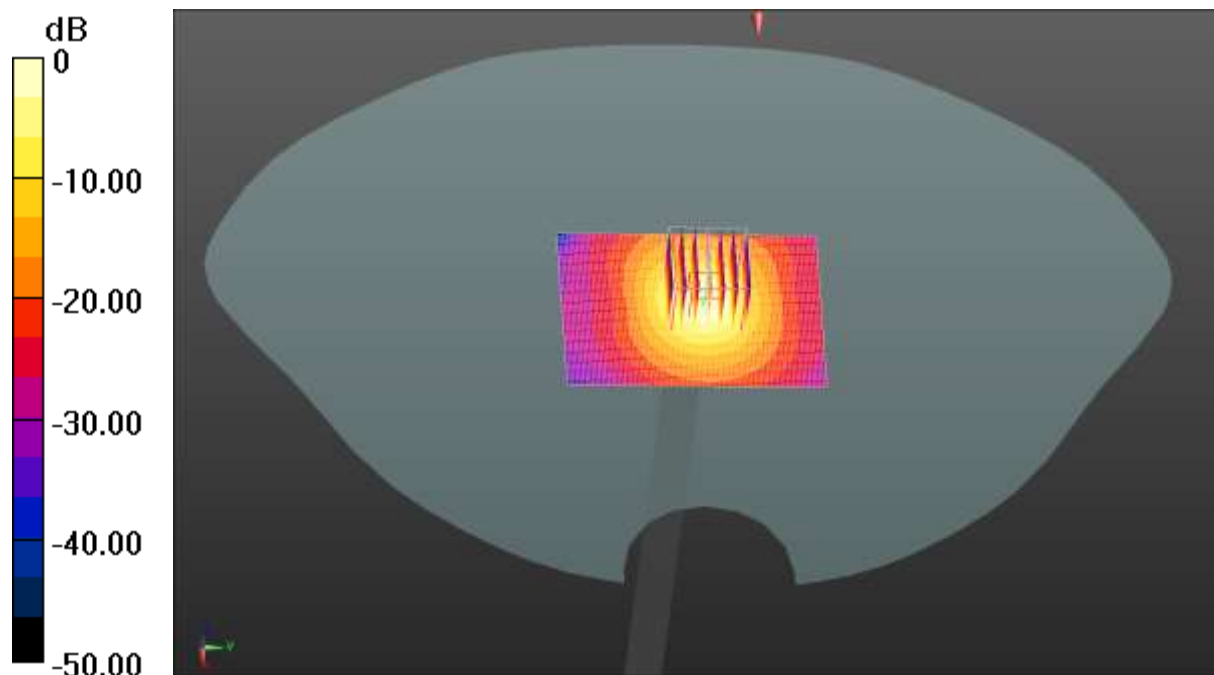
Communication System: UID 0, CW (0); Frequency: 5200 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.783$ S/m; $\epsilon_r = 35.636$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(5.42, 5.42, 5.42); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check at Frequency 5GHz Head Tissue/d=10mm, Pin=80 mW, dist=2.0mm (EX-Probe)/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
 Maximum value of SAR (interpolated) = 16.03 W/kg

System Performance Check at Frequency 5GHz Head Tissue/d=10mm, Pin=80 mW, dist=2.0mm (EX-Probe)/Zoom Scan (8x8x7) (7x7x12)/Cube 0:
 Measurement grid: dx=4mm, dy=4mm, dz=2mm
 Reference Value = 47.26V/m; Power Drift = 0.03 dB
 Peak SAR (extrapolated) = 28.48W/kg
SAR(1 g) = 6.36 W/kg; SAR(10 g) = 1.68 W/kg
 Maximum value of SAR (measured) = 16.03 W/kg



0 dB = 16.03 W/kg = 12.05 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.19.2021 08:42:56

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: SN:1182

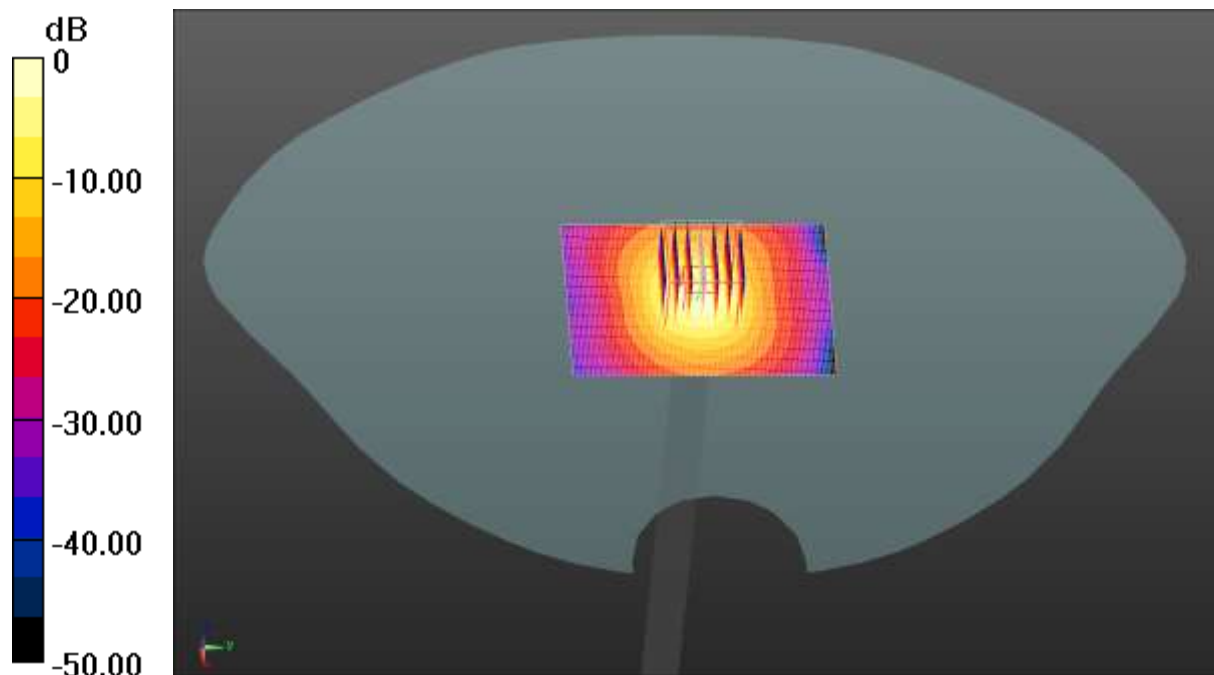
Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.309 \text{ S/m}$; $\epsilon_r = 34.884$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(4.96, 4.96, 4.96); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check at Frequency 5GHz Head Tissue/d=10mm, Pin=80 mW, dist=2.0mm (EX-Probe)/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
 Maximum value of SAR (interpolated) = 18.18 W/kg

System Performance Check at Frequency 5GHz Head Tissue/d=10mm, Pin=80 mW, dist=2.0mm (EX-Probe)/Zoom Scan (8x8x7) (7x7x12)/Cube 0:
 Measurement grid: dx=4mm, dy=4mm, dz=2mm
 Reference Value = 51.21 V/m; Power Drift = 0.13 dB
 Peak SAR (extrapolated) = 31.56 W/kg
SAR(1 g) = 6.28 W/kg; SAR(10 g) = 1.83 W/kg
 Maximum value of SAR (measured) = 18.64 W/kg



0 dB = 18.64 W/kg = 12.70 dBW/kg

Appendix B: Plots of SAR Test Data

Test Laboratory: JYTSZ

Date/Time: 01.11.2021 10:43:47

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, GSM (0); Frequency: 848.8 MHz; Duty Cycle: 1:8.30042
Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.913$ S/m; $\epsilon_r = 41.752$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(9.71, 9.71, 9.71); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

GSM 850 Right Tilted/High Channel/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 35.31 V/m; Power Drift = -0.24 dB

Peak SAR (extrapolated) = 3.13 W/kg

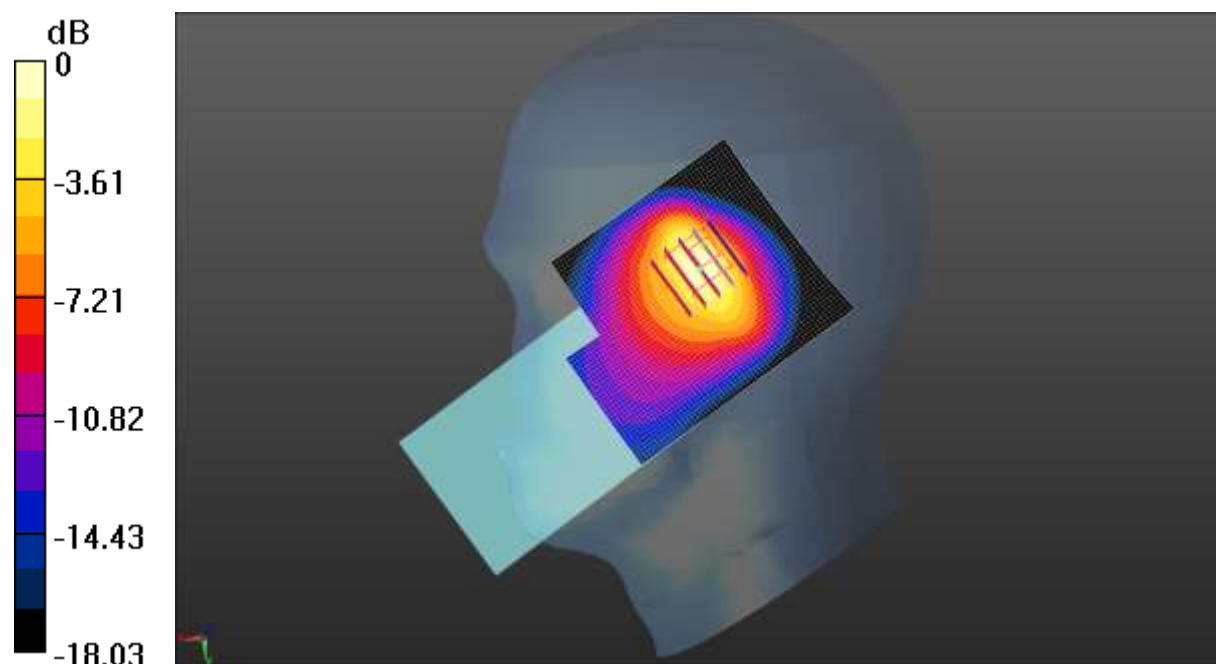
SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.628 W/kg

Maximum value of SAR (measured) = 2.25 W/kg

GSM 850 Right Tilted/High Channel/Area Scan (51x61x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.18 W/kg



0 dB = 2.18 W/kg = 3.38 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.21.2021 23:53:11

DUT: Mobile Phone; Type: CG6j; Serial: 2#

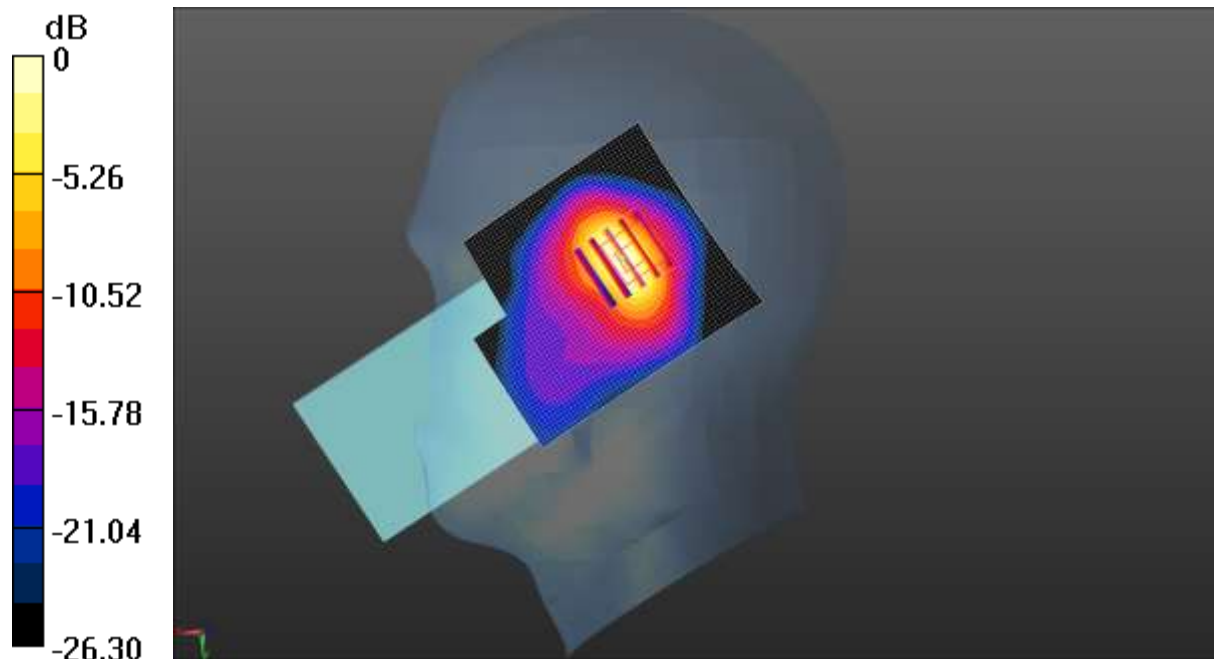
Communication System: UID 0, GSM (0); Frequency: 1909.8 MHz; Duty Cycle: 1:8.30042
 Medium parameters used: $f = 1910 \text{ MHz}$; $\sigma = 1.418 \text{ S/m}$; $\epsilon_r = 39.874$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.14, 8.14, 8.14); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

GSM 1900 Right Tilted/High Channel/Area Scan (51x61x1): Interpolated grid:
 $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 0.728 W/kg

GSM 1900 Right Tilted/High Channel/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 19.15 V/m; Power Drift = 0.08 dB
 Peak SAR (extrapolated) = 0.991 W/kg
SAR(1 g) = 0.449 W/kg; SAR(10 g) = 0.192 W/kg
 Maximum value of SAR (measured) = 0.702 W/kg



0 dB = 0.702 W/kg = -1.54 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.11.2021 16:32:45

DUT: Mobile Phone; Type: CG6j; Serial: 2#

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

Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 41.769$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(9.71, 9.71, 9.71); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

WCDMA 850 Right Cheek/High Channel/Area Scan (51x61x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.14 W/kg

WCDMA 850 Right Cheek/High Channel/Zoom Scan (5x5x7)/Cube 0:

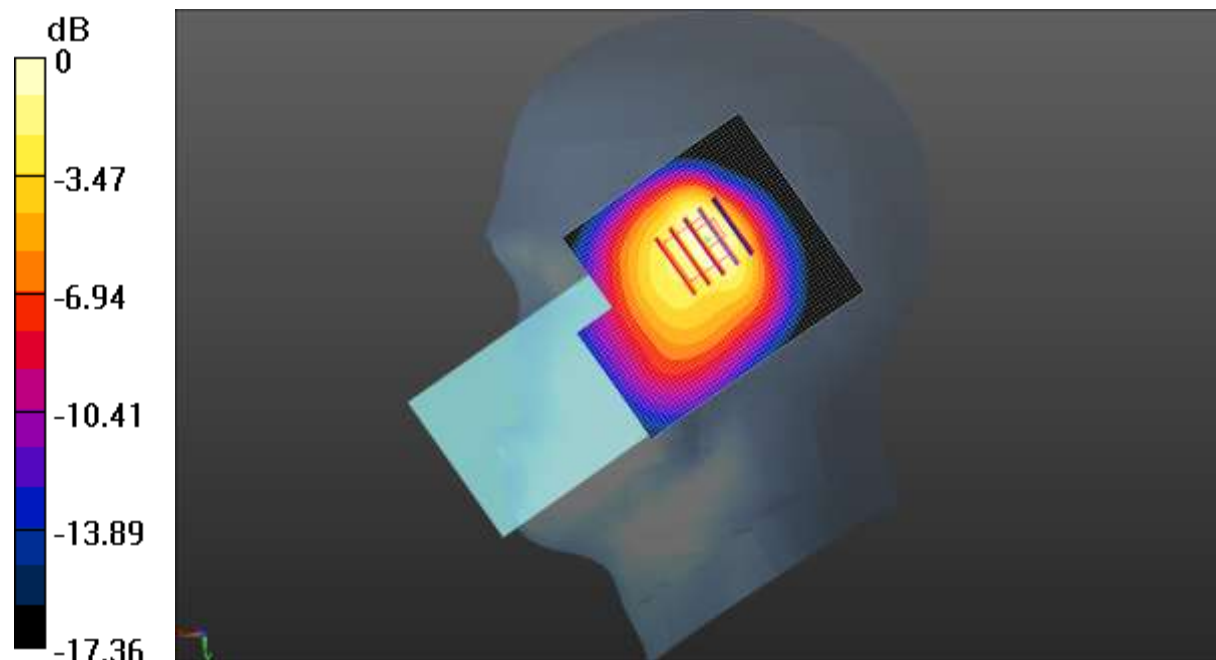
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.53 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.579 W/kg; SAR(10 g) = 0.357 W/kg

Maximum value of SAR (measured) = 0.939 W/kg



0 dB = 0.939 W/kg = -0.27 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.21.2021 22:44:50

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1907.6 \text{ MHz}$; $\sigma = 1.416 \text{ S/m}$; $\epsilon_r = 39.882$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.14, 8.14, 8.14); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

WCDMA 1900 Right Tilted/High Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.40 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.700 W/kg

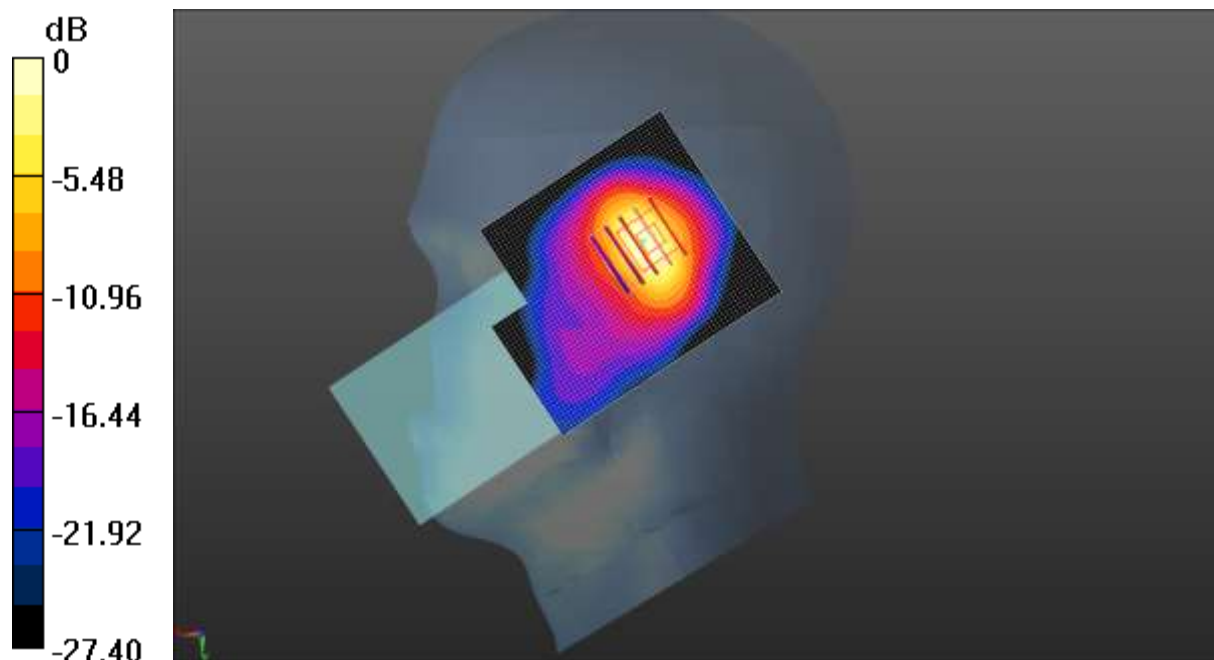
SAR(1 g) = 0.339 W/kg; SAR(10 g) = 0.149 W/kg

Maximum value of SAR (measured) = 0.503 W/kg

WCDMA 1900 Right Tilted/High Channel/Area Scan (51x61x1): Interpolated

grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.527 W/kg



0 dB = 0.527 W/kg = -2.78 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.21.2021 14:11:21

DUT: Mobile Phone; Type: CG6j; Serial: 2#Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 1860 MHz;
Duty Cycle: 1:1Medium parameters used: $f = 1860$ MHz; $\sigma = 1.399$ S/m; $\epsilon_r = 40.054$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.14, 8.14, 8.14); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 2 1RB(20MHz) Right Tilted/Low Channel/Area Scan (51x61x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.209 W/kg

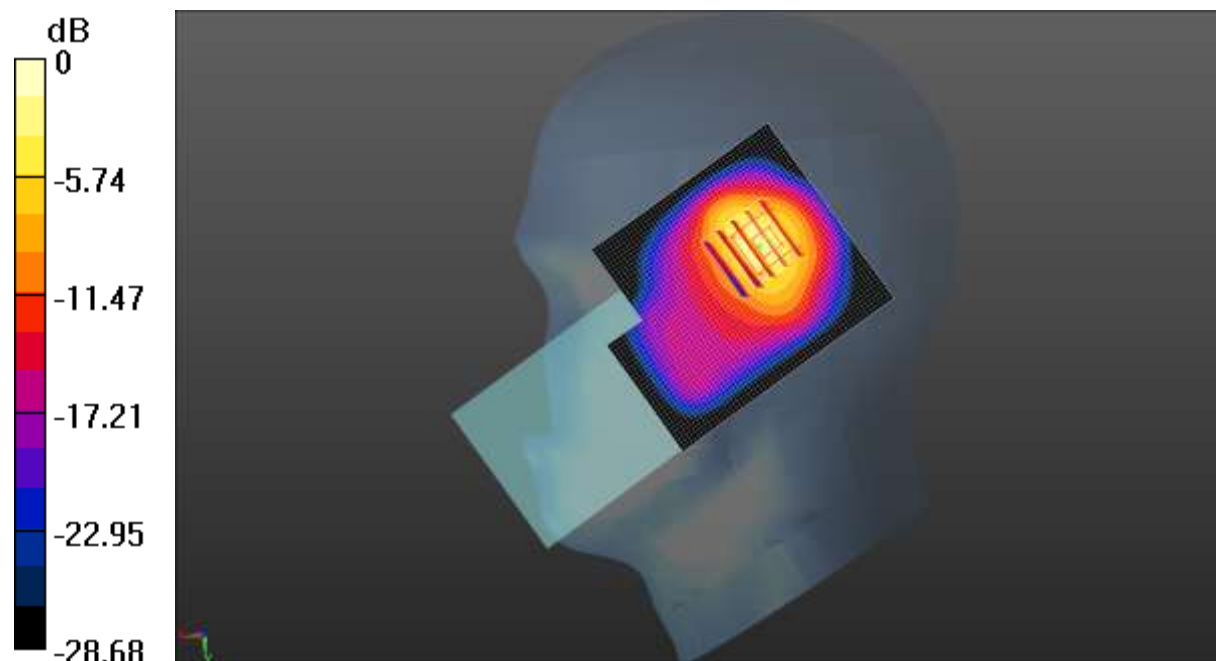
LTE Band 2 1RB(20MHz) Right Tilted/Low Channel/Zoom Scan**(5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.260 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.466 W/kg

SAR(1 g) = 0.223 W/kg; SAR(10 g) = 0.100 W/kg

Maximum value of SAR (measured) = 0.322 W/kg



0 dB = 0.322 W/kg = -4.92 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.21.2021 16:12:49

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 1720 MHz;

Duty Cycle: 1:1

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.358$ S/m; $\epsilon_r = 40.642$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.43, 8.43, 8.43); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 4 1RB(20MHz) Right Tilted/Low Channel/Area Scan (51x61x1):Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.326 W/kg

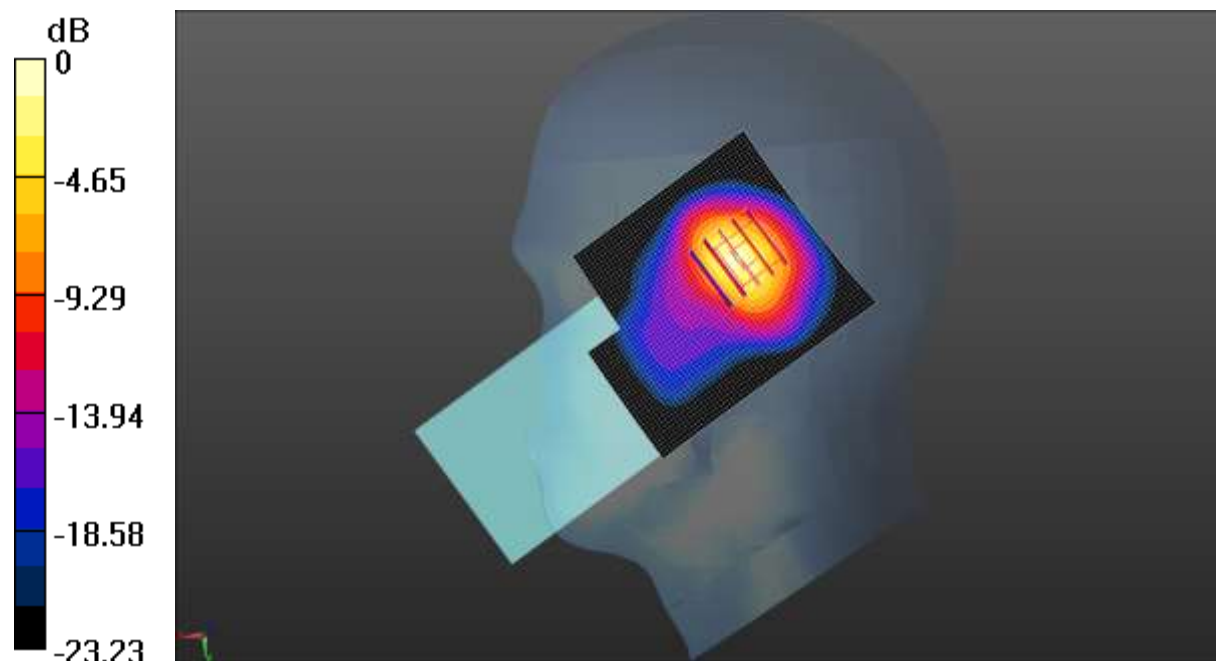
LTE Band 4 1RB(20MHz) Right Tilted/Low Channel/Zoom Scan**(5x5x7)/Cube 0:** Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 11.34 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.570 W/kg

SAR(1 g) = 0.274 W/kg; SAR(10 g) = 0.127 W/kg

Maximum value of SAR (measured) = 0.397 W/kg



0 dB = 0.397 W/kg = -4.01 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.09.2021 10:36:30

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 2535 MHz;

Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2535$ MHz; $\sigma = 1.934$ S/m; $\epsilon_r = 38.317$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.58, 7.58, 7.58); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 7 1RB(20MHz) Right Tilted/Middle Channel/Area Scan (51x61x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.354 W/kg

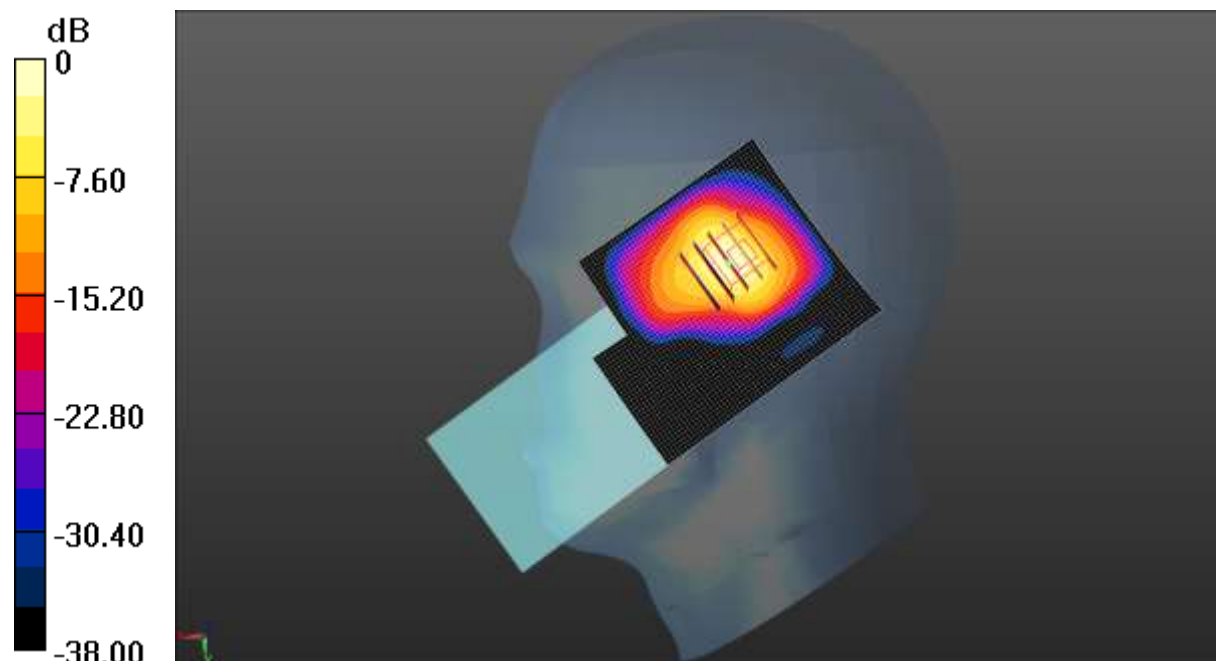
LTE Band 7 1RB(20MHz) Right Tilted/Middle Channel/Zoom Scan**(5x5x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.514 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.483 W/kg

SAR(1 g) = 0.190 W/kg; SAR(10 g) = 0.071 W/kg

Maximum value of SAR (measured) = 0.373 W/kg



Test Laboratory: JYTSZ

Date/Time: 01.11.2021 19:28:12

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 844 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 844 \text{ MHz}$; $\sigma = 0.908 \text{ S/m}$; $\epsilon_r = 41.785$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(9.71, 9.71, 9.71); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 5 1RB(10MHz) Right Tilted/High Channel/Area Scan (51x61x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 2.15 W/kg

LTE Band 5 1RB(10MHz) Right Tilted/High Channel/Zoom Scan

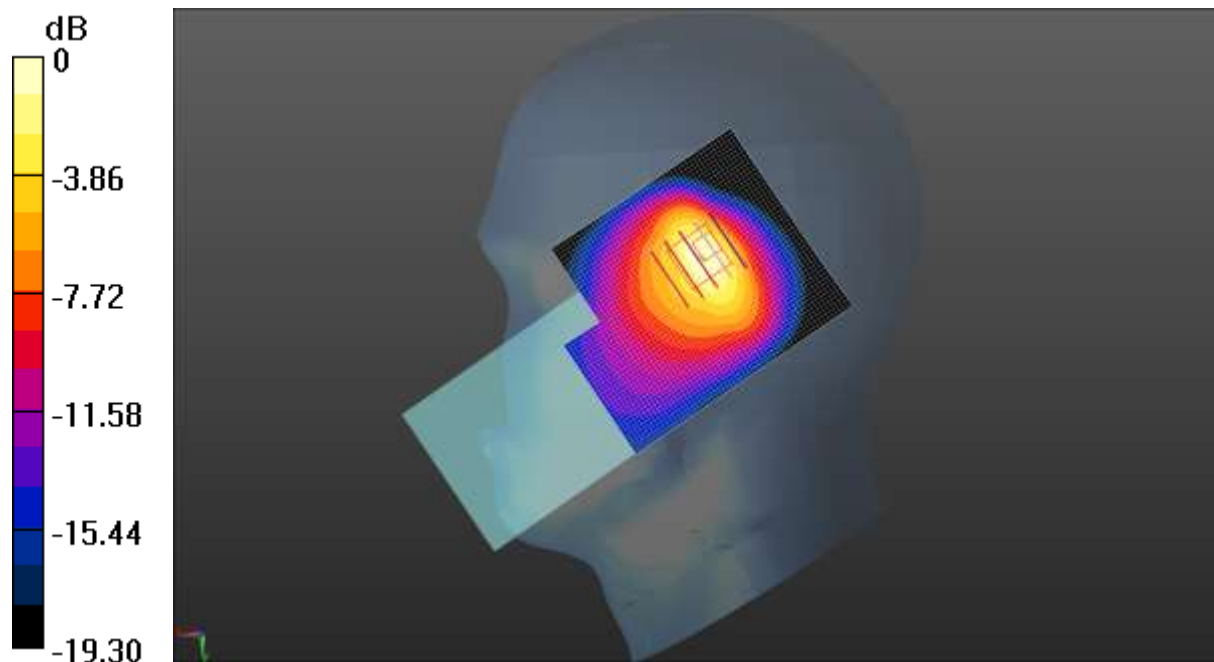
(5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 33.04 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 2.84 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.530 W/kg

Maximum value of SAR (measured) = 1.95 W/kg



0 dB = 1.95 W/kg = 2.90 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.12.2021 05:32:54

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 710 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 710 \text{ MHz}$; $\sigma = 0.844 \text{ S/m}$; $\epsilon_r = 42.294$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(10.11, 10.11, 10.11); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 17 1RB(10MHz) Right Cheek/Middle Channel/Area Scan

(51x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.43 W/kg

LTE Band 17 1RB(10MHz) Right Cheek/Middle Channel/Zoom Scan

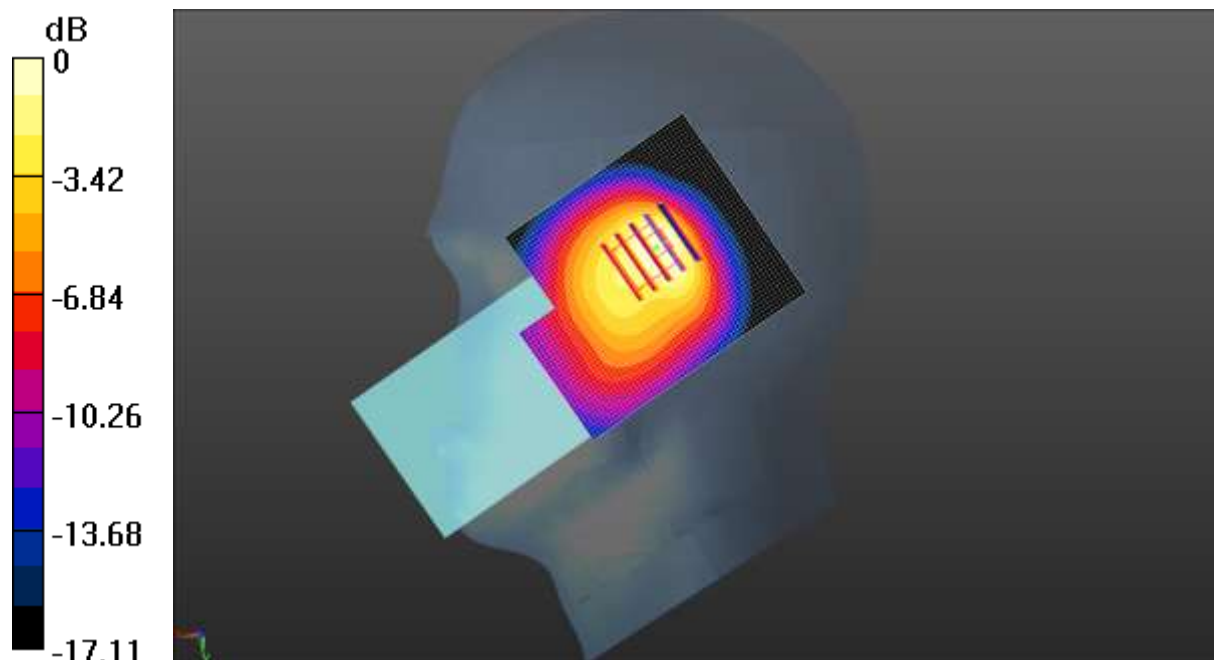
(5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 29.40 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.627 W/kg; SAR(10 g) = 0.388 W/kg

Maximum value of SAR (measured) = 1.06 W/kg



0 dB = 1.06 W/kg = 0.25 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.09.2021 23:14:55

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-TDD(USA) 20MHz 1RB QPSK (0); Frequency: 2610 MHz; Duty Cycle: 1:1.59956

Medium parameters used: $f = 2610$ MHz; $\sigma = 2.026$ S/m; $\epsilon_r = 38.043$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.35, 7.35, 7.35); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 38 1RB(20MHz) Right Tilted/High Channel/Zoom Scan

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

Reference Value = 13.01 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.74 W/kg

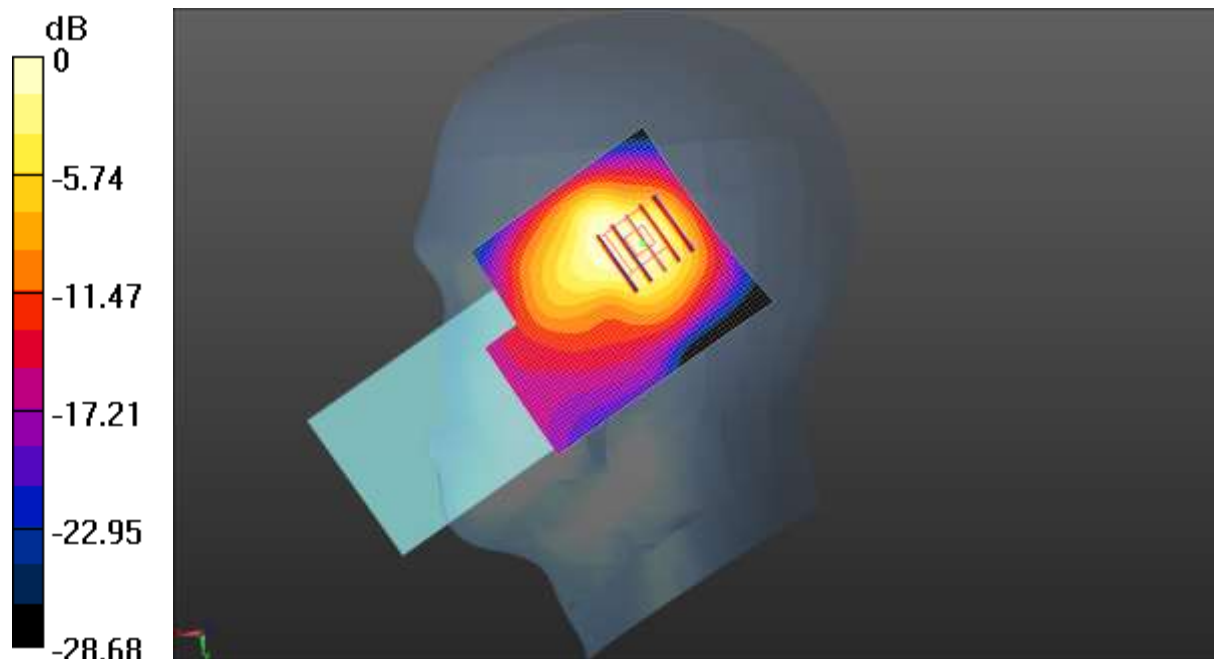
SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.416 W/kg

Maximum value of SAR (measured) = 2.09 W/kg

LTE Band 38 1RB(20MHz) Right Tilted/High Channel/Area Scan (51x61x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.754 W/kg



0 dB = 0.754 W/kg = -1.23 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.09.2021 18:34:46

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-TDD(USA) 20MHz 1RB QPSK (0); Frequency: 2545 MHz; Duty Cycle: 1:1.59956

Medium parameters used (interpolated): $f = 2545$ MHz; $\sigma = 1.943$ S/m; $\epsilon_r = 38.269$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.58, 7.58, 7.58); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 41 1RB(20MHz) Right Tilted/Low Channel/Zoom Scan**(5x5x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.52 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 3.08 W/kg

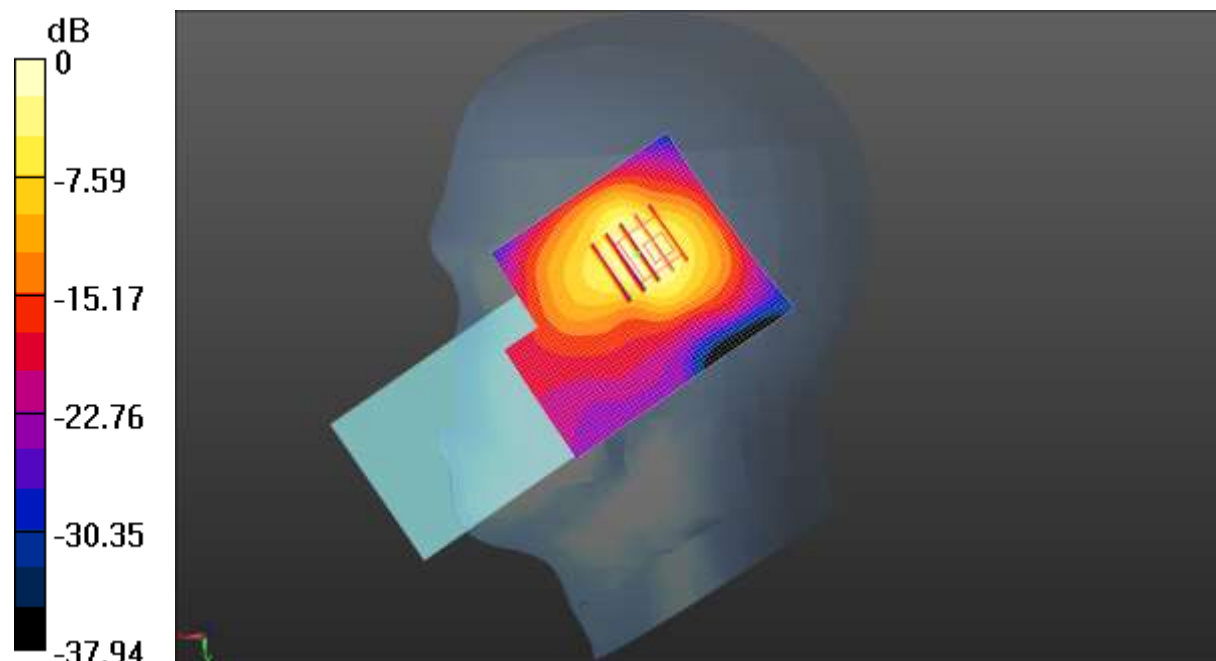
SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.442 W/kg

Maximum value of SAR (measured) = 2.40 W/kg

LTE Band 41 1RB(20MHz) Right Tilted/Low Channel/Area Scan (51x61x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.50 W/kg



0 dB = 1.50 W/kg = 1.76 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.21.2021 14:58:16

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-FDD(USA) 20MHz 50%RB QPSK (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.412 \text{ S/m}$; $\epsilon_r = 39.905$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY5 Configuration:

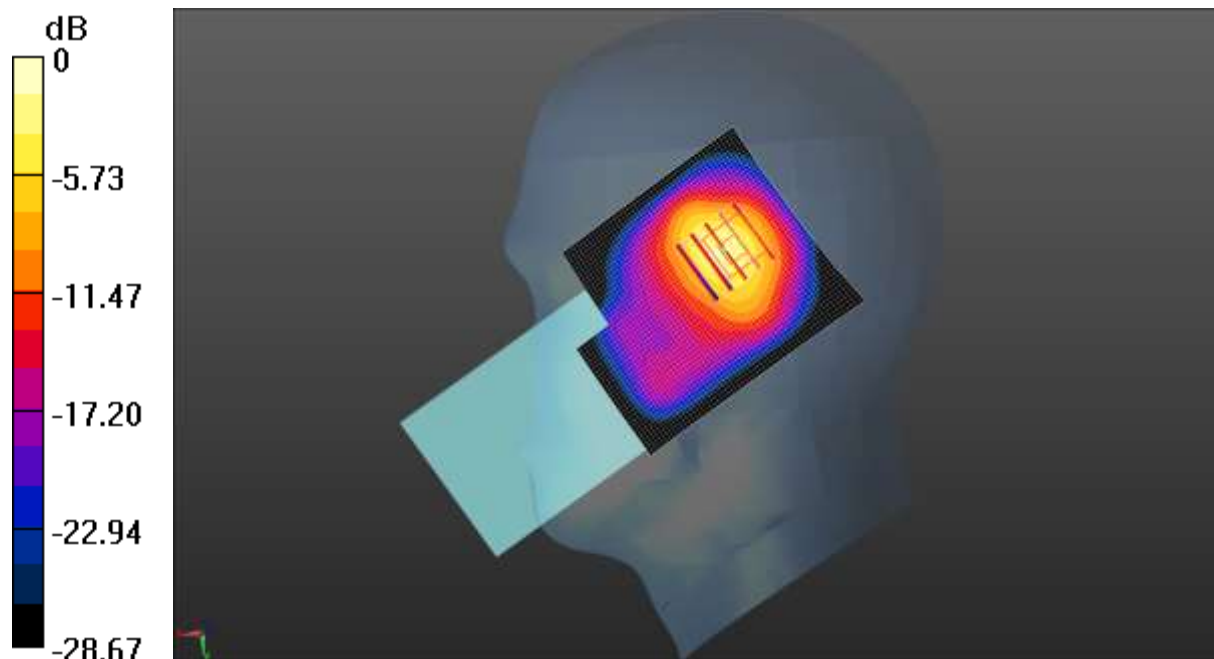
- Probe: EX3DV4 - SN3924; ConvF(8.14, 8.14, 8.14); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 2 50%RB(20MHz) Right Tilted/High Channel/Area Scan (51x61x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.218 W/kg

LTE Band 2 50%RB(20MHz) Right Tilted/High Channel/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 8.437 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.482 W/kg
SAR(1 g) = 0.226 W/kg; SAR(10 g) = 0.099 W/kg
Maximum value of SAR (measured) = 0.315 W/kg



0 dB = 0.315 W/kg = -5.02 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.21.2021 16:54:04

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-FDD(USA) 20MHz 50%RB QPSK (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5 \text{ MHz}$; $\sigma = 1.364 \text{ S/m}$; $\epsilon_r = 40.591$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.43, 8.43, 8.43); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 4 50%RB(20MHz) Right Tilted/Middle Channel/Area Scan

(51x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.188 W/kg

LTE Band 4 50%RB(20MHz) Right Tilted/Middle Channel/Zoom Scan

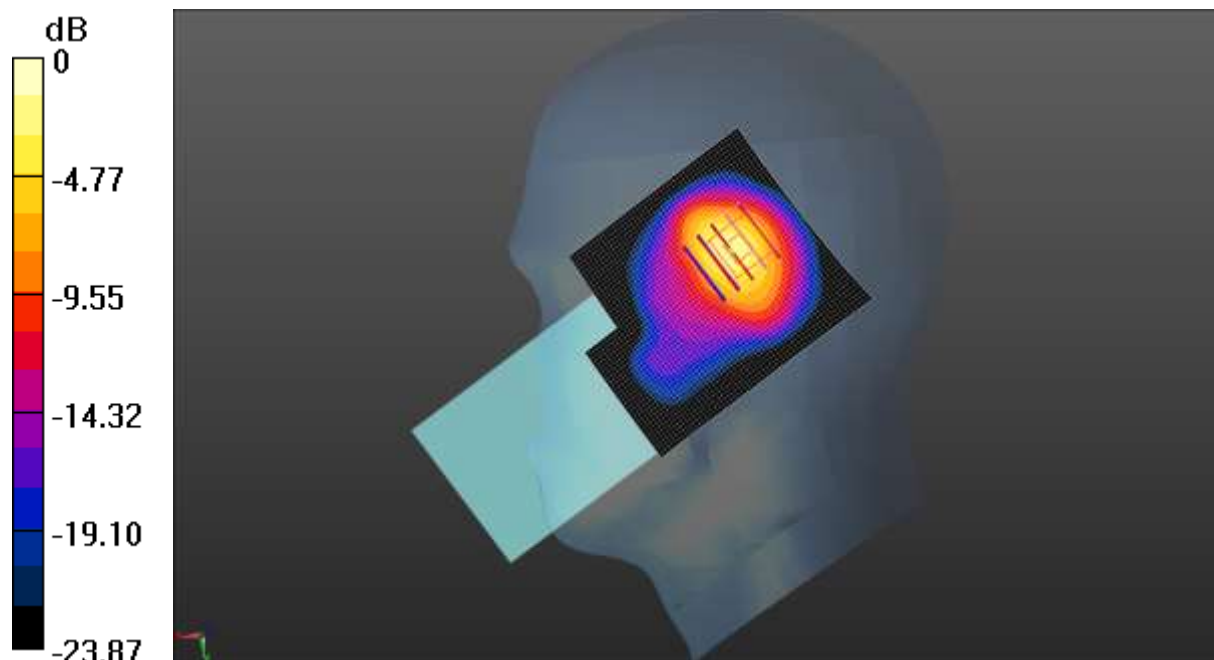
(5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.285 V/m; Power Drift = -0.25 dB

Peak SAR (extrapolated) = 0.406 W/kg

SAR(1 g) = 0.196 W/kg; SAR(10 g) = 0.089 W/kg

Maximum value of SAR (measured) = 0.278 W/kg



0 dB = 0.278 W/kg = -5.56 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.09.2021 11:43:09

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-FDD(USA) 20MHz 50%RB QPSK (0); Frequency: 2560 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.964$ S/m; $\epsilon_r = 38.238$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.35, 7.35, 7.35); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 7 50%RB(20MHz) Right Tilted/High Channel/Area Scan (51x61x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.124 W/kg

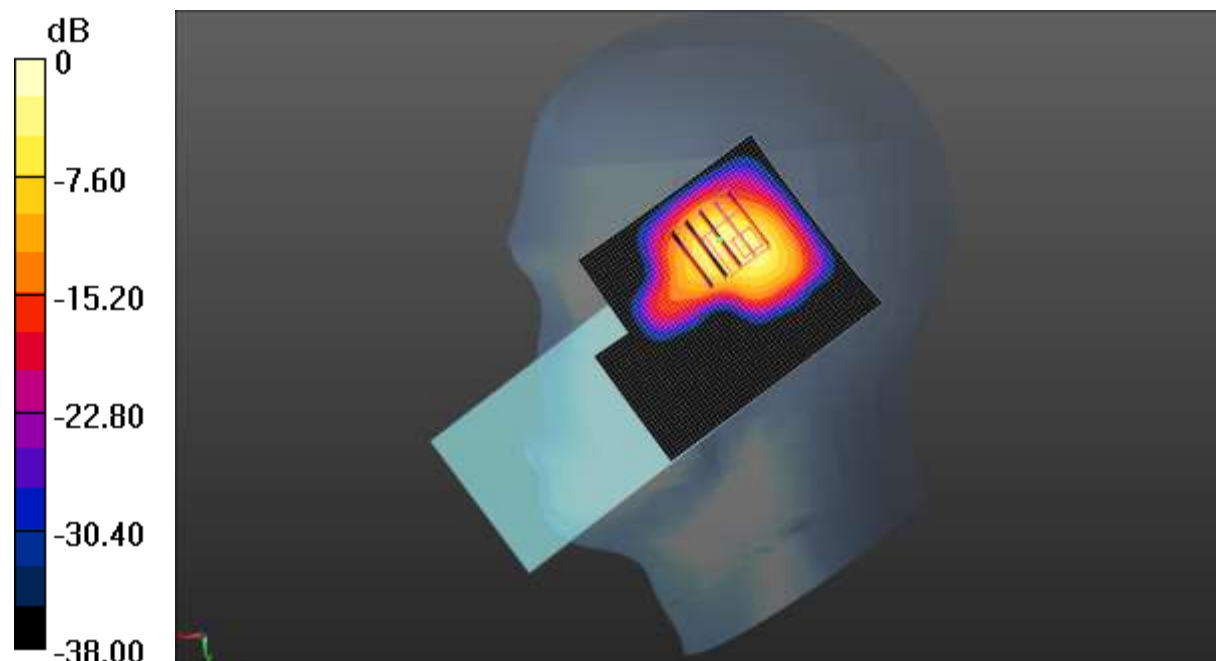
LTE Band 7 50%RB(20MHz) Right Tilted/High Channel/Zoom Scan**(5x5x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.097 V/m; Power Drift = 0.30 dB

Peak SAR (extrapolated) = 0.328 W/kg

SAR(1 g) = 0.126 W/kg; SAR(10 g) = 0.044 W/kg

Maximum value of SAR (measured) = 0.257 W/kg



0 dB = 0.257 W/kg = -5.90 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.11.2021 23:03:08

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-FDD (USA) 10MHz 50%RB QPSK (0); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 829$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 41.878$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(9.71, 9.71, 9.71); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 5 50%RB(10MHz) Right Tilted/Low Channel/Area Scan (51x61x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.75 W/kg

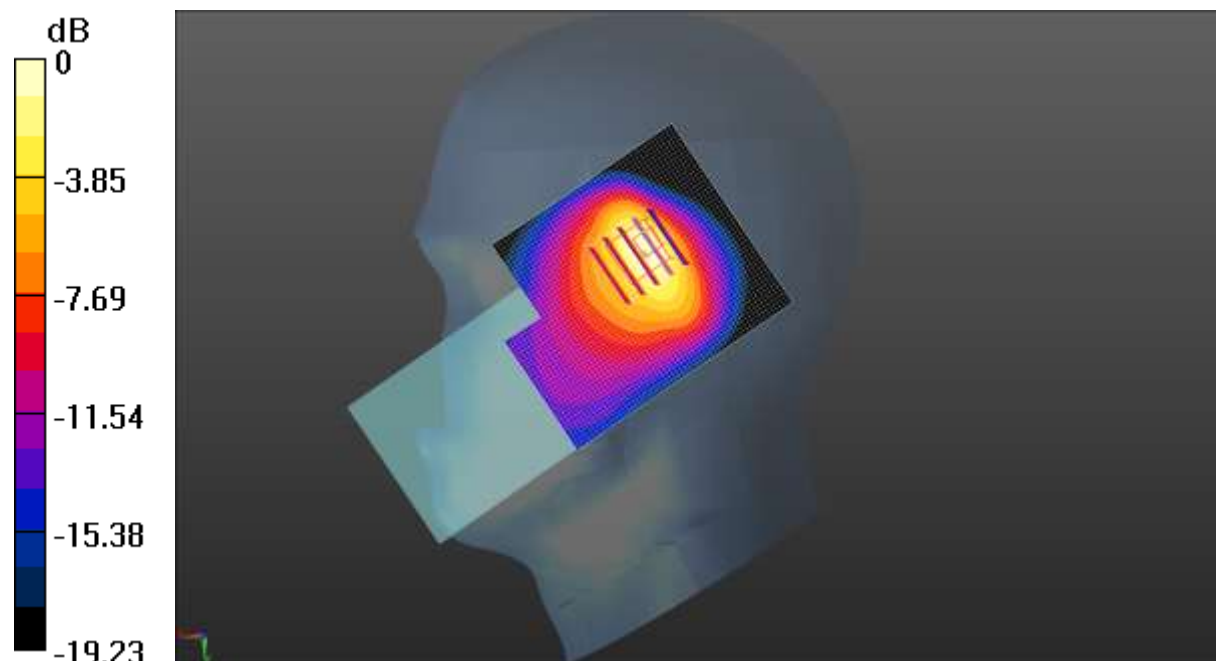
LTE Band 5 50%RB(10MHz) Right Tilted/Low Channel/Zoom Scan**(5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.11 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 2.23 W/kg

SAR(1 g) = 0.807 W/kg; SAR(10 g) = 0.416 W/kg

Maximum value of SAR (measured) = 1.53 W/kg



0 dB = 1.53 W/kg = 1.85 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.12.2021 06:44:30

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-FDD (USA) 10MHz 50%RB QPSK (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 711 \text{ MHz}$; $\sigma = 0.845 \text{ S/m}$; $\epsilon_r = 42.287$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(10.11, 10.11, 10.11); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 17 50%RB(10MHz) Right Cheek/High Channel/Zoom Scan

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

Reference Value = 24.45 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.955 W/kg

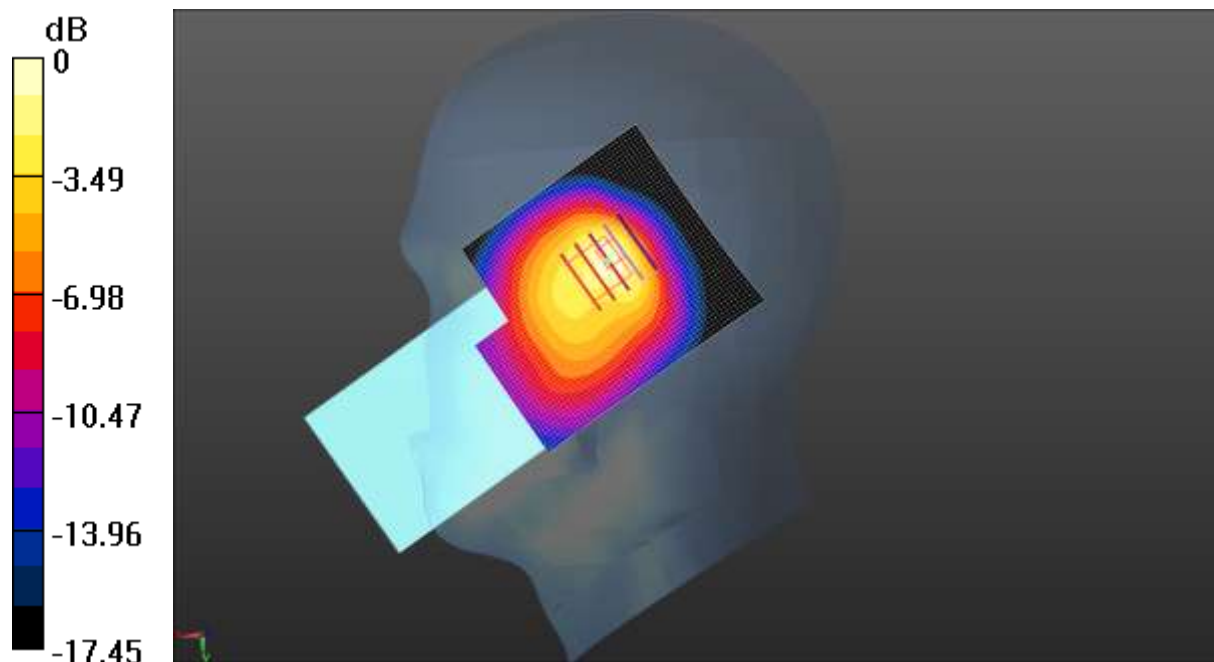
SAR(1 g) = 0.441 W/kg; SAR(10 g) = 0.285 W/kg

Maximum value of SAR (measured) = 0.714 W/kg

LTE Band 17 50%RB(10MHz) Right Cheek/High Channel/Area Scan

(51x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.919 W/kg



0 dB = 0.919 W/kg = -0.37 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.10.2021 01:25:06

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-TDD(USA) 20MHz 50%RB QPSK (0); Frequency: 2610 MHz; Duty Cycle: 1:1.59956

Medium parameters used: $f = 2610 \text{ MHz}$; $\sigma = 2.026 \text{ S/m}$; $\epsilon_r = 38.043$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.35, 7.35, 7.35); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 38 50%RB(20MHz) Right Tilted/High Channel/Area Scan

(51x61x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.714 W/kg

LTE Band 38 50%RB(20MHz) Right Tilted/High Channel/Zoom Scan

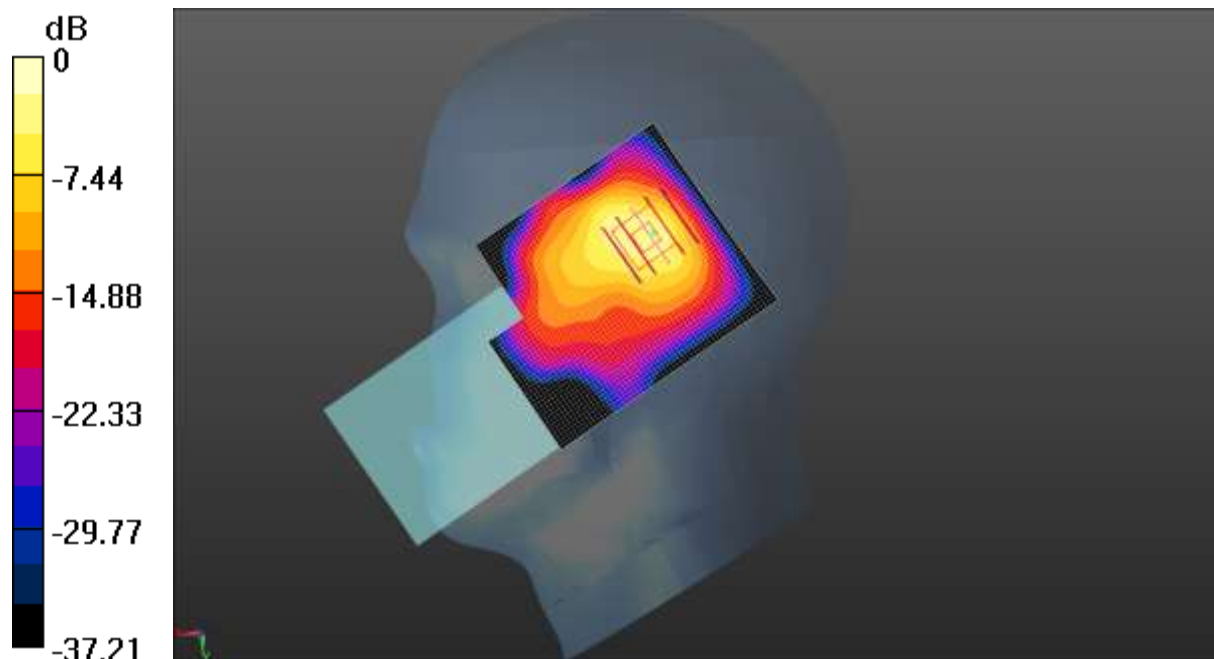
(5x5x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.31 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.14 W/kg

SAR(1 g) = 0.822 W/kg; SAR(10 g) = 0.327 W/kg

Maximum value of SAR (measured) = 1.45 W/kg



0 dB = 1.45 W/kg = 1.61 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.09.2021 19:50:44

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-TDD(USA) 20MHz 50%RB QPSK (0); Frequency: 2595 MHz; Duty Cycle: 1:1.59956

Medium parameters used (interpolated): $f = 2595 \text{ MHz}$; $\sigma = 2.005 \text{ S/m}$; $\epsilon_r = 38.133$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.35, 7.35, 7.35); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 41 50%RB(20MHz) Right Tilted/Middle Channel/Area Scan

(51x61x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 1.06 W/kg

LTE Band 41 50%RB(20MHz) Right Tilted/Middle Channel/Zoom Scan

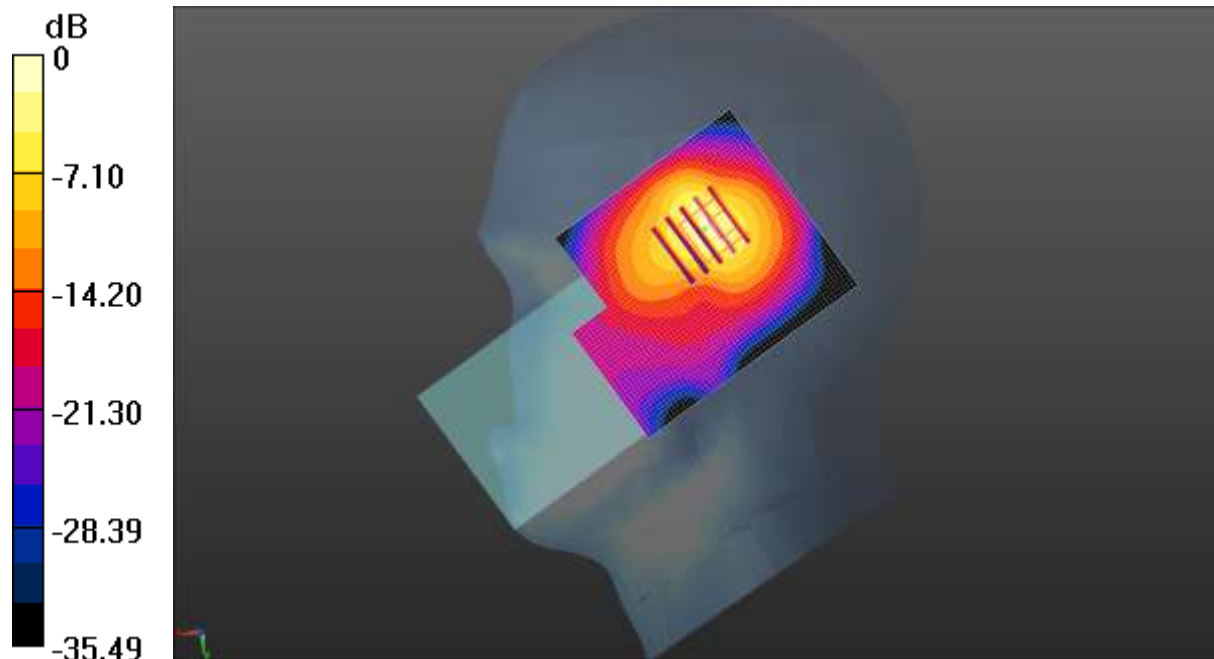
(5x5x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.23 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 2.15 W/kg

SAR(1 g) = 0.806 W/kg; SAR(10 g) = 0.303 W/kg

Maximum value of SAR (measured) = 1.66 W/kg



0 dB = 1.66 W/kg = 2.20 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.12.2021 00:03:14

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-FDD(USA) 10MHz 100%RB QPSK (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.894$ S/m; $\epsilon_r = 41.814$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(9.71, 9.71, 9.71); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 5 100%RB(10MHz) Right Tilted/Middle Channel/Area Scan**(51x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.64 W/kg

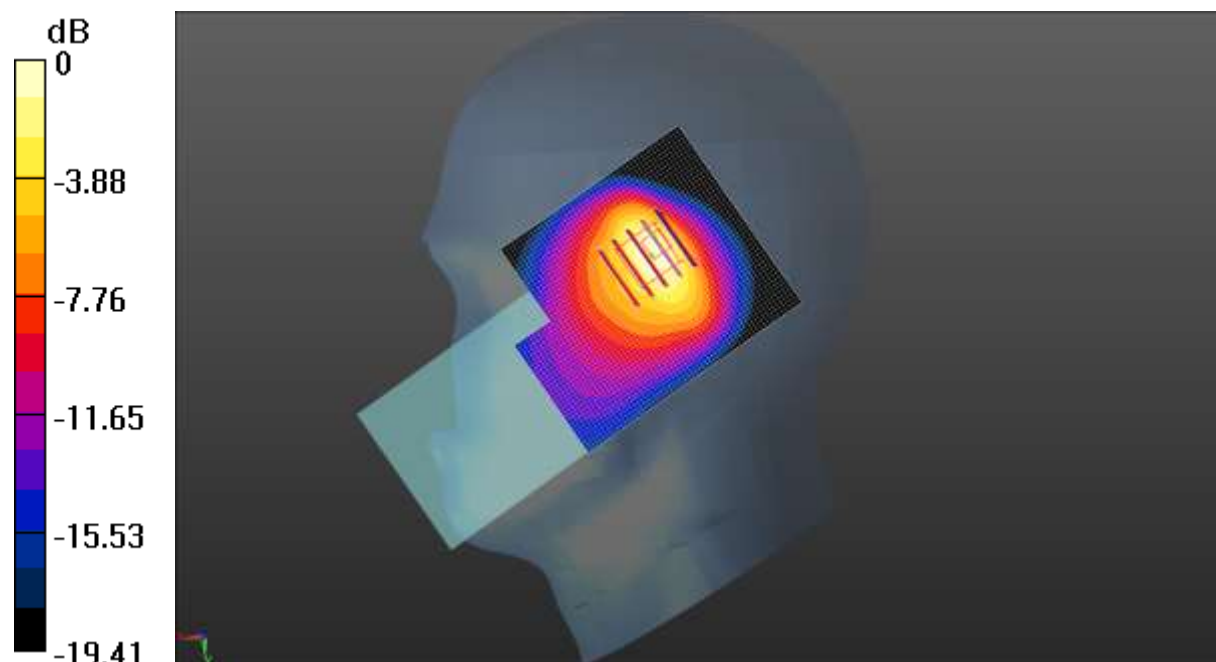
LTE Band 5 100%RB(10MHz) Right Tilted/Middle Channel/Zoom Scan**(5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.25 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 2.10 W/kg

SAR(1 g) = 0.742 W/kg; SAR(10 g) = 0.389 W/kg

Maximum value of SAR (measured) = 1.39 W/kg



Test Laboratory: JYTSZ

Date/Time: 01.10.2021 02:57:41

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-TDD(USA) 20MHz 100%RB QPSK (0); Frequency: 2580 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2580$ MHz; $\sigma = 1.991$ S/m; $\epsilon_r = 38.178$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.35, 7.35, 7.35); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 38 100%RB(20MHz) Right Tilted/Low Channel/Area Scan

(51x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.553 W/kg

LTE Band 38 100%RB(20MHz) Right Tilted/Low Channel/Zoom Scan

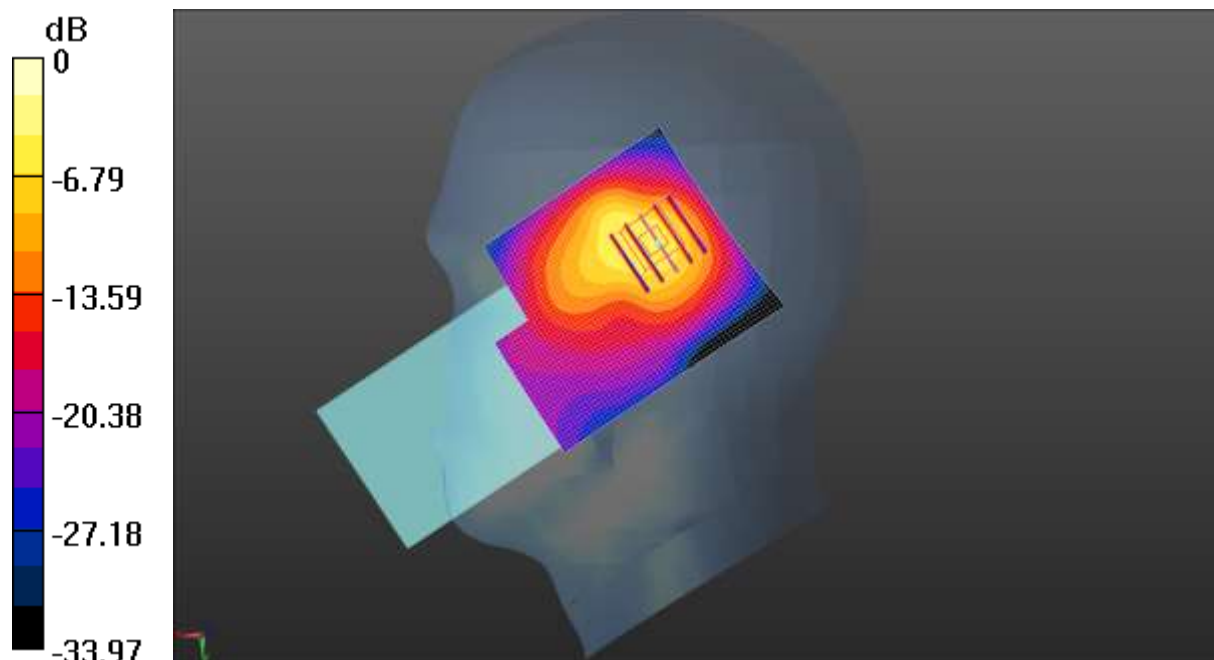
(5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.15 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 2.03 W/kg

SAR(1 g) = 0.747 W/kg; SAR(10 g) = 0.306 W/kg

Maximum value of SAR (measured) = 1.53 W/kg



0 dB = 1.53 W/kg = 1.85 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.09.2021 21:26:27

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-TDD(USA) 20MHz 100%RB QPSK (0); Frequency: 2595 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2595$ MHz; $\sigma = 2.005$ S/m; $\epsilon_r = 38.133$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.35, 7.35, 7.35); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 41 100%RB(20MHz) Right Tilted/Middle Channel/Area Scan

(51x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.03 W/kg

LTE Band 41 100%RB(20MHz) Right Tilted/Middle Channel/Zoom Scan

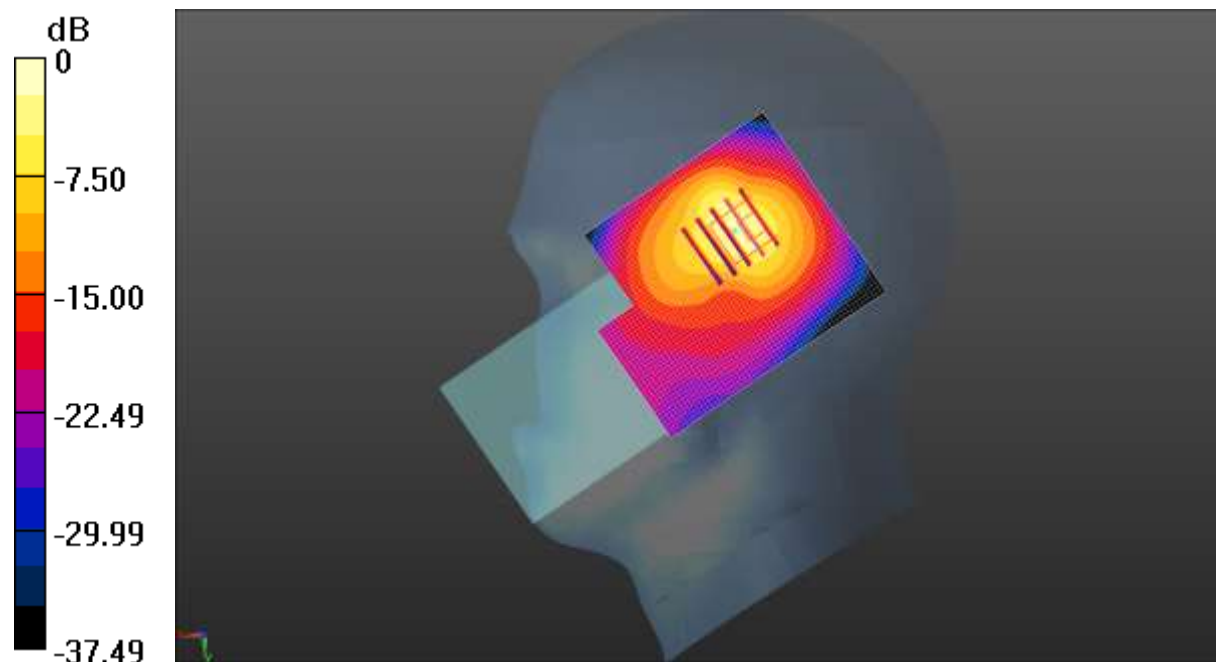
(5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.14 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.08 W/kg

SAR(1 g) = 0.749 W/kg; SAR(10 g) = 0.297 W/kg

Maximum value of SAR (measured) = 1.62 W/kg



0 dB = 1.62 W/kg = 2.10 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.10.2021 07:39:56

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps) (0);

Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.803$ S/m; $\epsilon_r = 38.495$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.58, 7.58, 7.58); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

WiFi Left Tilted/Low Channel/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.792 V/m; Power Drift = 0.30 dB

Peak SAR (extrapolated) = 0.574 W/kg

SAR(1 g) = 0.221 W/kg; SAR(10 g) = 0.085 W/kg

Maximum value of SAR (measured) = 0.350 W/kg

WiFi Left Tilted/Low Channel/Area Scan (51x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.350 W/kg



0 dB = 0.350 W/kg = -4.56 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.19.2021 20:09:30

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5240 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5240 \text{ MHz}$; $\sigma = 4.819 \text{ S/m}$; $\epsilon_r = 35.553$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(5.42, 5.42, 5.42); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

5.2G WIFI Left Tilted/High Channel/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 4.453 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.716 W/kg

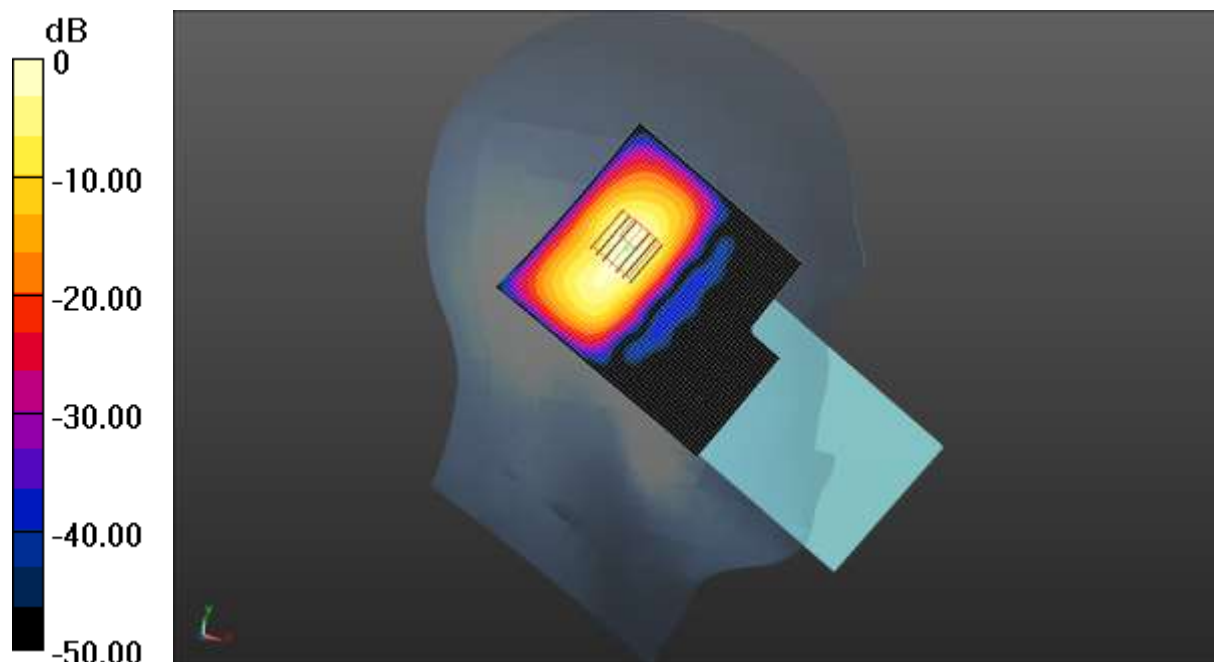
SAR(1 g) = 0.182 W/kg; SAR(10 g) = 0.039 W/kg

Maximum value of SAR (measured) = 0.558 W/kg

5.2G WIFI Left Tilted/High Channel/Area Scan (51x61x1): Interpolated grid:

$dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.253 W/kg



0 dB = 0.253 W/kg = -5.97 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.19.2021 21:50:06

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5785$ MHz; $\sigma = 5.228$ S/m; $\epsilon_r = 34.976$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(4.96, 4.96, 4.96); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

5.8G WIFI Left Tilted/Middle Channel/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.469 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 1.40 W/kg

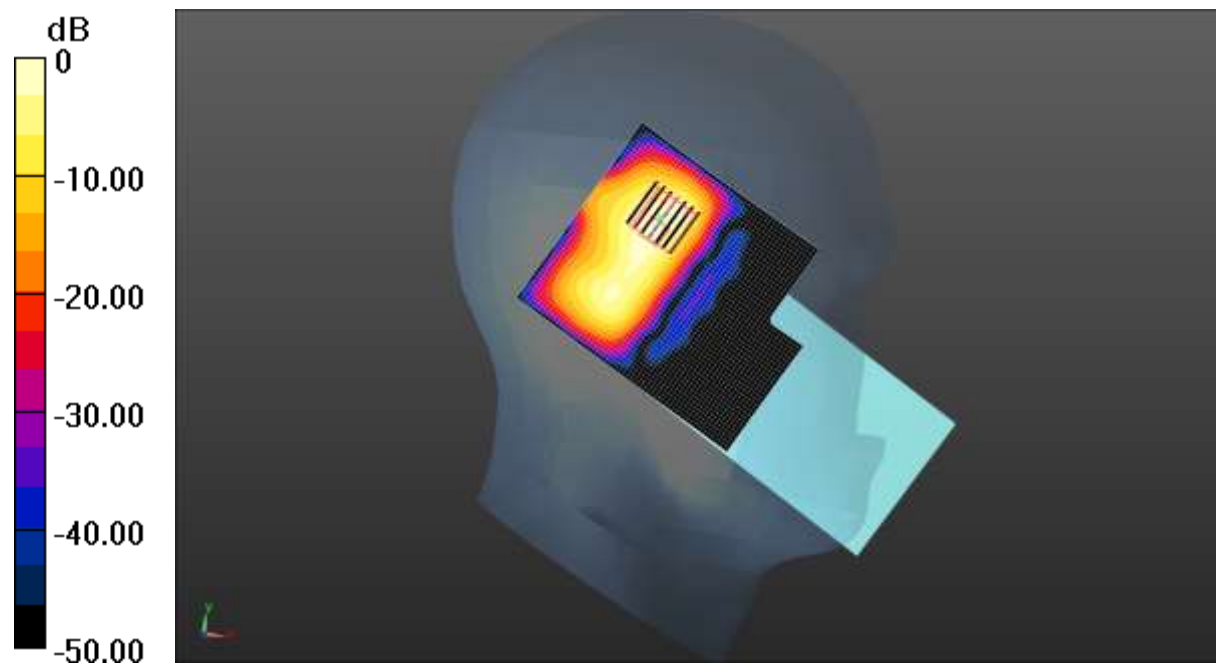
SAR(1 g) = 0.135 W/kg; SAR(10 g) = 0.034 W/kg

Maximum value of SAR (measured) = 0.385 W/kg

5.8G WIFI Left Tilted/Middle Channel/Area Scan (51x61x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.383 W/kg



0 dB = 0.383 W/kg = -4.17 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.11.2021 13:53:52

DUT: Mobile Phone; Type: CG6j; Serial: 2#

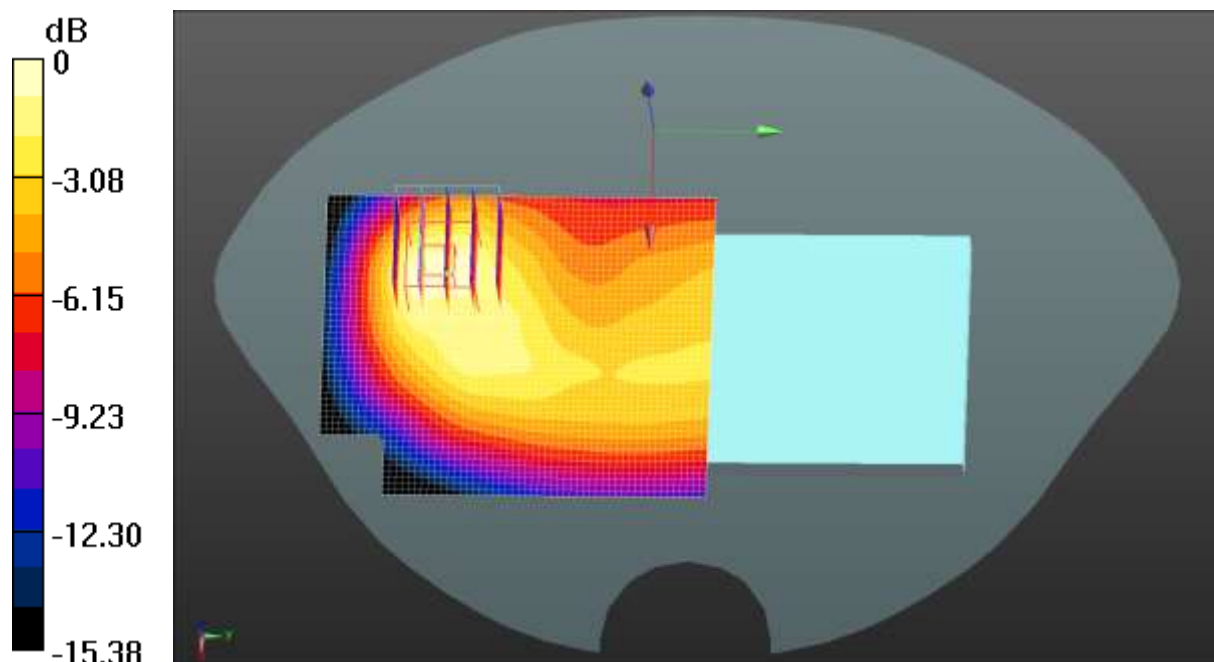
Communication System: UID 0, GSM (0); Frequency: 848.8 MHz; Duty Cycle: 1:8.30042
 Medium parameters used (interpolated): $f = 848.8 \text{ MHz}$; $\sigma = 0.913 \text{ S/m}$; $\epsilon_r = 41.752$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(9.71, 9.71, 9.71); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

GSM 850 Body Back/High Channel/Area Scan (51x61x1): Interpolated grid:
 $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 0.419 W/kg

GSM 850 Body Back/High Channel/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 15.48 V/m; Power Drift = -0.06 dB
 Peak SAR (extrapolated) = 0.543 W/kg
SAR(1 g) = 0.284 W/kg; SAR(10 g) = 0.169 W/kg
 Maximum value of SAR (measured) = 0.431 W/kg



0 dB = 0.431 W/kg = -3.66 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.22.2021 00:27:05

DUT: Mobile Phone; Type: CG6j; Serial: 2#

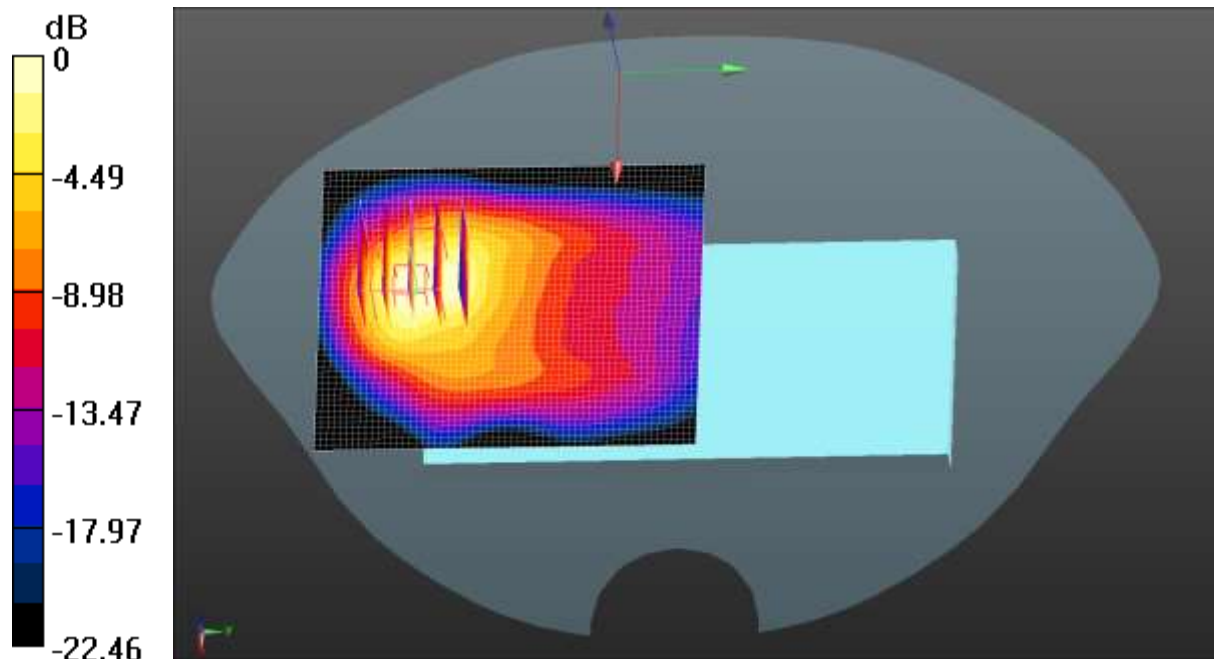
Communication System: UID 0, GSM (0); Frequency: 1909.8 MHz; Duty Cycle: 1:8.30042
 Medium parameters used: $f = 1910 \text{ MHz}$; $\sigma = 1.418 \text{ S/m}$; $\epsilon_r = 39.874$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.14, 8.14, 8.14); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

GSM 1900 Body Back/High Channel/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 2.763 V/m; Power Drift = 0.02 dB
 Peak SAR (extrapolated) = 0.756 W/kg
SAR(1 g) = 0.344 W/kg; SAR(10 g) = 0.152 W/kg
 Maximum value of SAR (measured) = 0.608 W/kg

GSM 1900 Body Back/High Channel/Area Scan (51x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 0.307 W/kg



0 dB = 0.307 W/kg = -5.13 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.11.2021 15:44:42

DUT: Mobile Phone; Type: CG6j; Serial: 2#

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

Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.928$ S/m; $\epsilon_r = 41.012$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(9.71, 9.71, 9.71); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

WCDMA 850 Body Back/High Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.04 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.406 W/kg

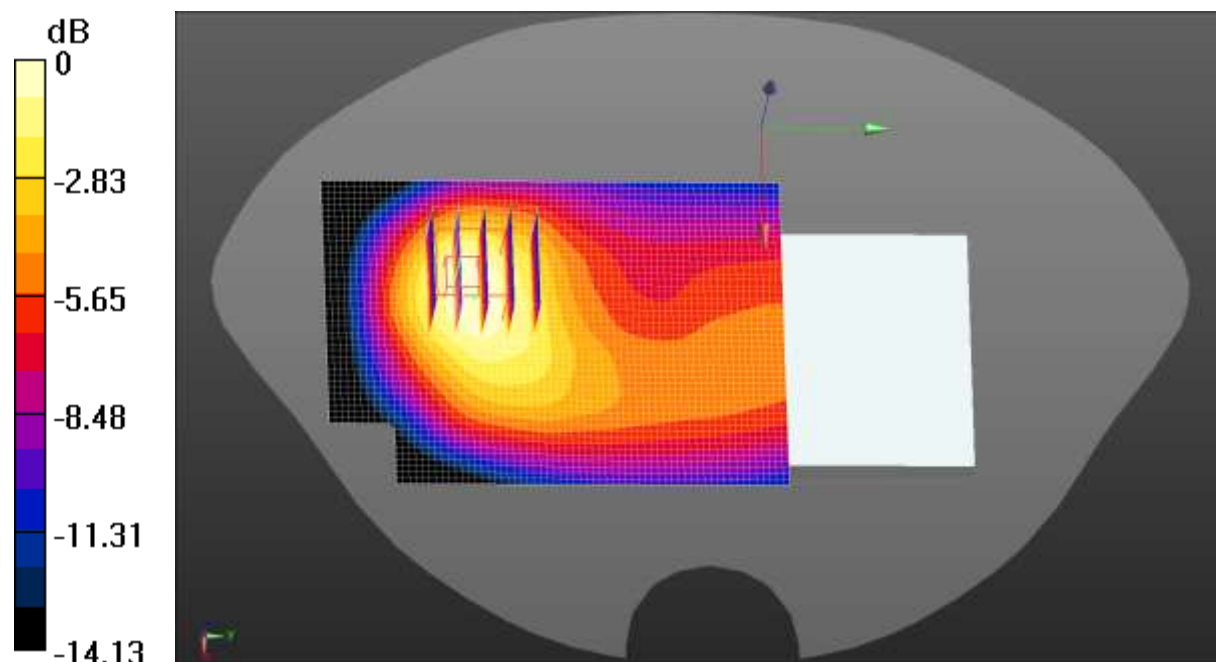
SAR(1 g) = 0.278 W/kg; SAR(10 g) = 0.140 W/kg

Maximum value of SAR (measured) = 0.348 W/kg

WCDMA 850 Body Back/High Channel/Area Scan (51x71x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.342 W/kg



0 dB = 0.342 W/kg = -4.66 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.27.2021 21:08:10

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1907.6 \text{ MHz}$; $\sigma = 1.416 \text{ S/m}$; $\epsilon_r = 39.882$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.14, 8.14, 8.14); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

WCDMA 1900 Body Back/High Channel/Area Scan (51x61x1): Interpolated grid:

$dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.125 W/kg

WCDMA 1900 Body Back/High Channel/Zoom Scan (5x5x7)/Cube 0:

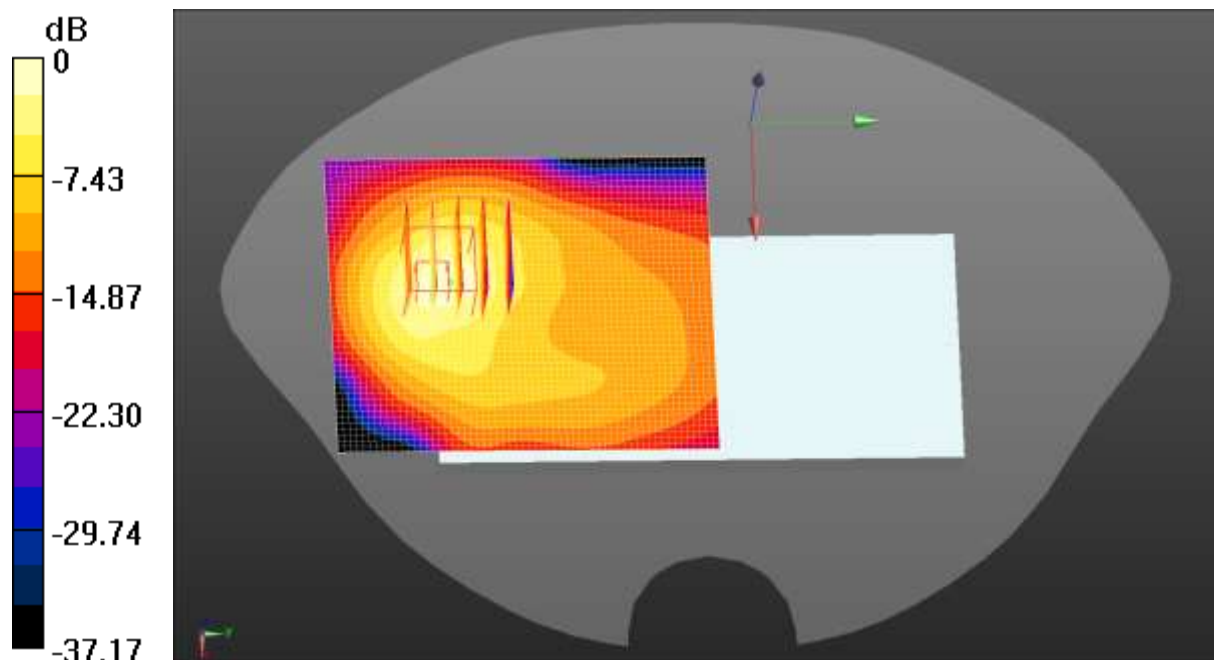
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.425 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.206 W/kg

SAR(1 g) = 0.107 W/kg; SAR(10 g) = 0.052 W/kg

Maximum value of SAR (measured) = 0.164 W/kg



0 dB = 0.164 W/kg = -7.85 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.21.2021 11:29:44

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 1860 MHz;
Duty Cycle: 1:1

Medium parameters used: $f = 1860 \text{ MHz}$; $\sigma = 1.399 \text{ S/m}$; $\epsilon_r = 40.054$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

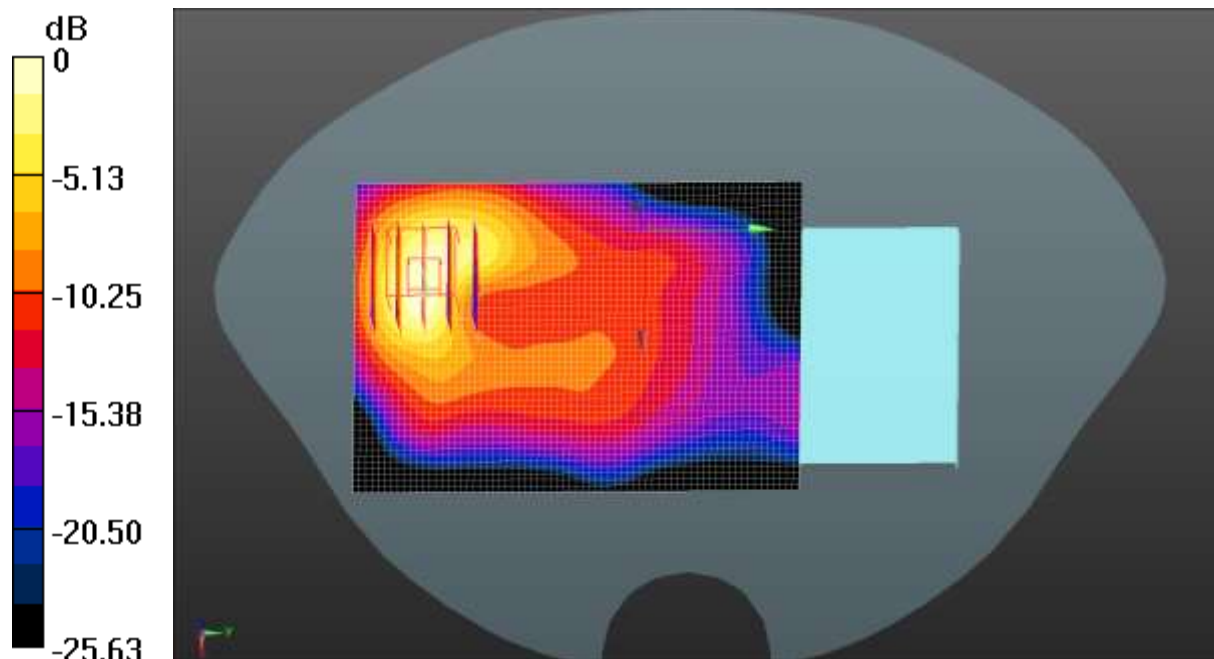
- Probe: EX3DV4 - SN3924; ConvF(8.14, 8.14, 8.14); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 2 1RB(20MHz) Body Back/Low Channel/Area Scan (51x71x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.102 W/kg

LTE Band 2 1RB(20MHz) Body Back/Low Channel/Zoom Scan (5x5x7)/Cube

0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 2.023 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.141 W/kg
SAR(1 g) = 0.074 W/kg; SAR(10 g) = 0.037 W/kg
Maximum value of SAR (measured) = 0.114 W/kg



0 dB = 0.114 W/kg = -9.43 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.21.2021 18:05:14

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 1720 MHz;
Duty Cycle: 1:1

Medium parameters used: $f = 1720 \text{ MHz}$; $\sigma = 1.358 \text{ S/m}$; $\epsilon_r = 40.642$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

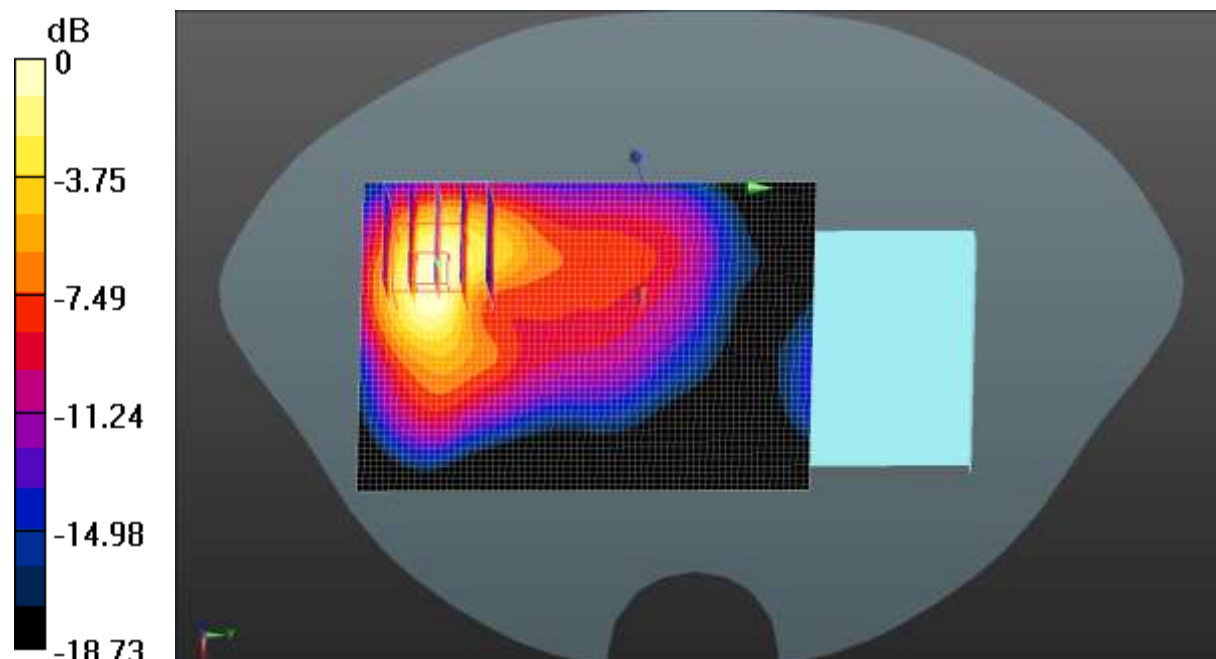
- Probe: EX3DV4 - SN3924; ConvF(8.43, 8.43, 8.43); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 4 1RB(20MHz) Body Back/Low Channel/Area Scan (51x71x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.130 W/kg

LTE Band 4 1RB(20MHz) Body Back/Low Channel/Zoom Scan (5x5x7)/Cube

0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 1.875 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.171 W/kg
SAR(1 g) = 0.093 W/kg; SAR(10 g) = 0.050 W/kg
Maximum value of SAR (measured) = 0.136 W/kg



0 dB = 0.136 W/kg = -8.66 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.09.2021 12:29:43

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 2535 MHz;
Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2535$ MHz; $\sigma = 1.934$ S/m; $\epsilon_r = 38.317$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.58, 7.58, 7.58); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 7 1RB(20MHz) Body Back/Middle Channel/Area Scan (51x71x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.167 W/kg

LTE Band 7 1RB(20MHz) Body Back/Middle Channel/Zoom Scan

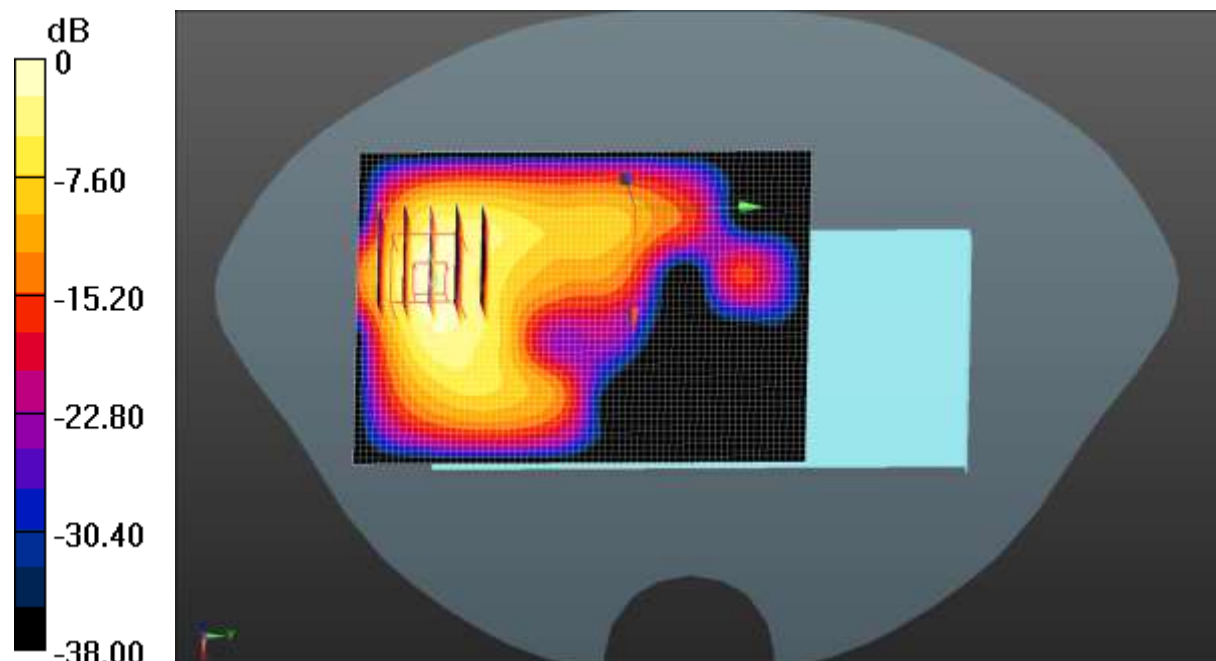
(5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.195 W/kg

SAR(1 g) = 0.081 W/kg; SAR(10 g) = 0.033 W/kg

Maximum value of SAR (measured) = 0.148 W/kg



0 dB = 0.148 W/kg = -8.30 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.12.2021 01:20:56

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 844 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 844$ MHz; $\sigma = 0.908$ S/m; $\epsilon_r = 41.785$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(9.71, 9.71, 9.71); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 5 1RB(10MHz) Body Back/High Channel/Zoom Scan (5x5x7)/Cube**0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.89 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.648 W/kg

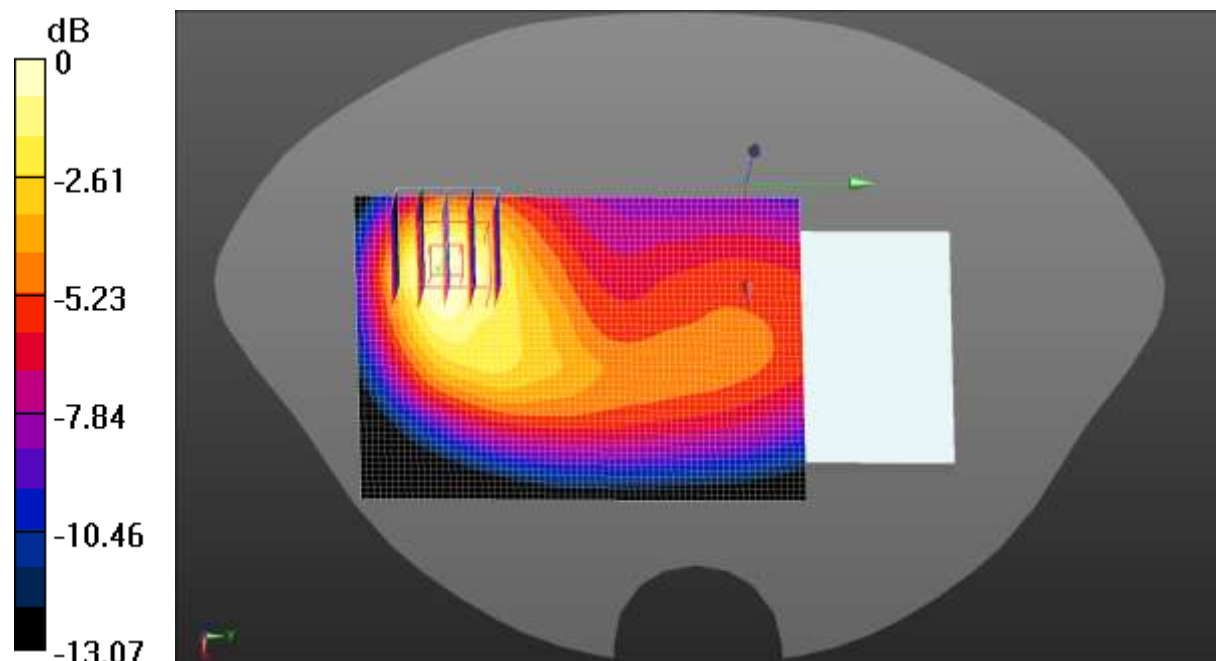
SAR(1 g) = 0.350 W/kg; SAR(10 g) = 0.210 W/kg

Maximum value of SAR (measured) = 0.530 W/kg

LTE Band 5 1RB(10MHz) Body Back/High Channel/Area Scan (51x71x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.629 W/kg



0 dB = 0.530 W/kg = -2.76 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.12.2021 03:26:49

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 710 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 710 \text{ MHz}$; $\sigma = 0.844 \text{ S/m}$; $\epsilon_r = 42.294$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(10.11, 10.11, 10.11); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 17 1RB(10MHz) Body Back/Middle Channel/Zoom Scan

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

Reference Value = 16.52 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.258 W/kg

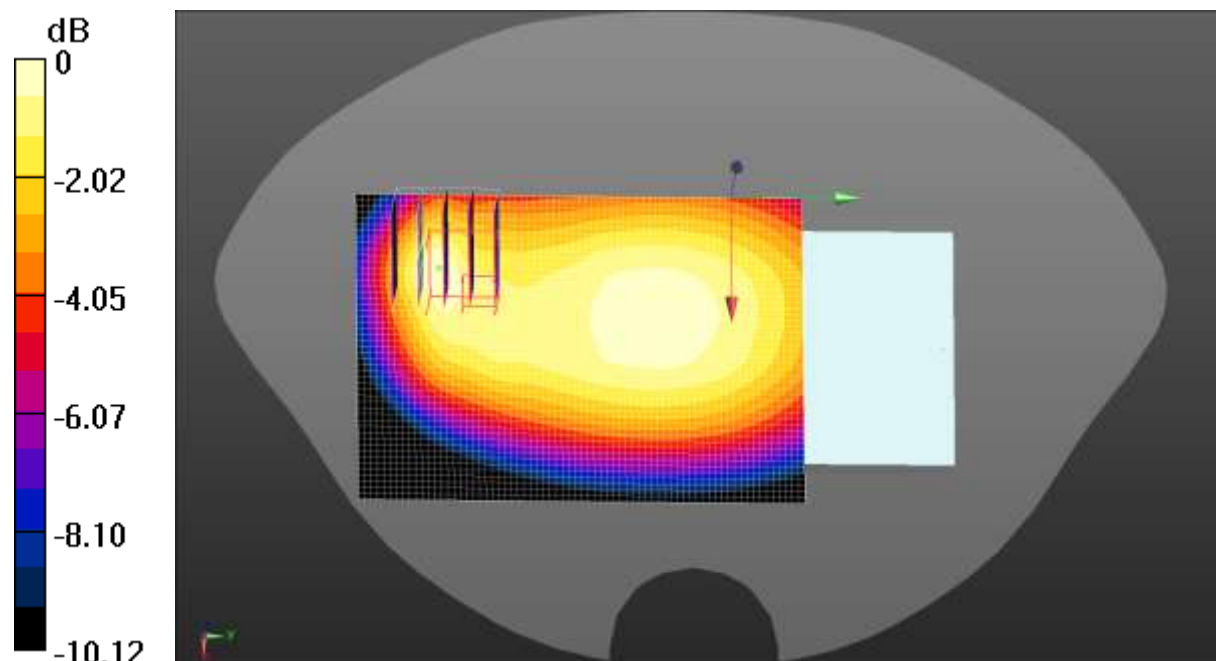
SAR(1 g) = 0.138 W/kg; SAR(10 g) = 0.092 W/kg

Maximum value of SAR (measured) = 0.200 W/kg

LTE Band 17 1RB(10MHz) Body Back/Middle Channel/Area Scan (51x71x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.238 W/kg



0 dB = 0.238 W/kg = -6.23 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.10.2021 03:58:25

DUT: Mobile Phone; Type: X693; Serial: 2#

Communication System: UID 0, LTE-TDD(USA) 20MHz 1RB QPSK (0); Frequency: 2610 MHz; Duty Cycle: 1:1.59956

Medium parameters used: $f = 2610$ MHz; $\sigma = 2.026$ S/m; $\epsilon_r = 38.043$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.35, 7.35, 7.35); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 38 1RB(20MHz) Body Back/High Channel/Area Scan (51x61x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.14 W/kg

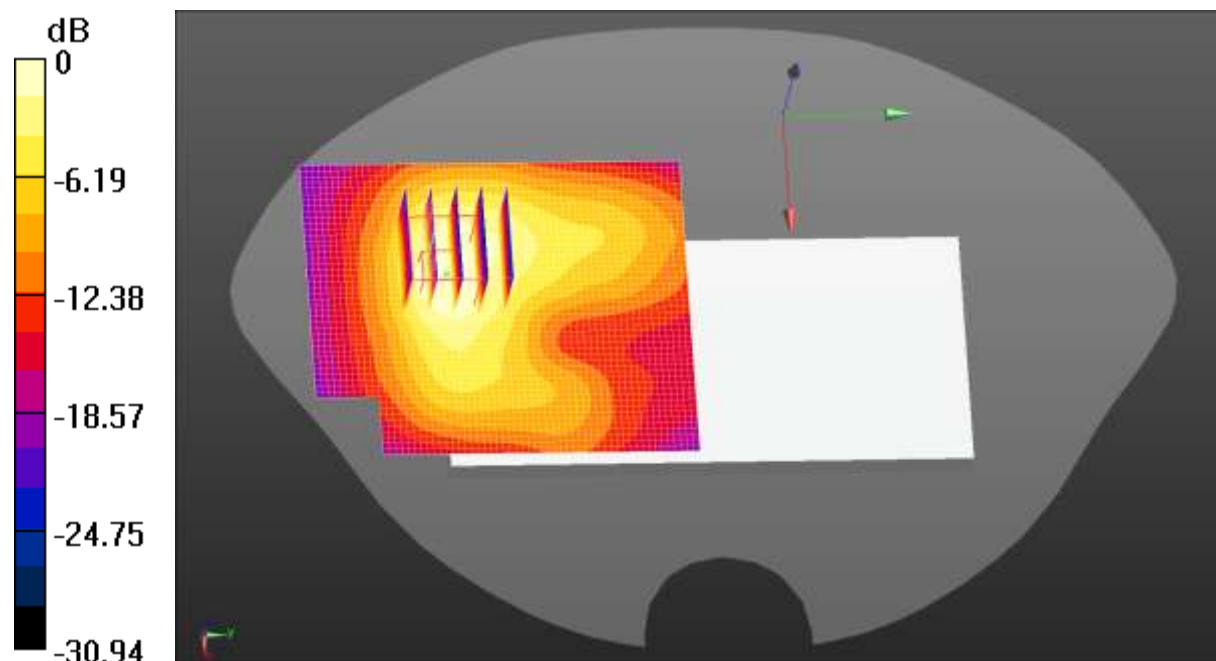
LTE Band 38 1RB(20MHz) Body Back/High Channel/Zoom Scan**(5x5x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.164 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.517 W/kg; SAR(10 g) = 0.224 W/kg

Maximum value of SAR (measured) = 0.860 W/kg



0 dB = 0.860 W/kg = -0.66 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.09.2021 14:36:17

DUT: Mobile Phone; Type: X693; Serial: 2#

Communication System: UID 0, LTE-TDD(USA) 20MHz 1RB QPSK (0); Frequency: 2595 MHz; Duty Cycle: 1:1.59956

Medium parameters used (interpolated): $f = 2595$ MHz; $\sigma = 2.005$ S/m; $\epsilon_r = 38.133$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.35, 7.35, 7.35); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 41 1RB(20MHz) Body Back/Middle Channel/Area Scan (51x61x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.942 W/kg

LTE Band 41 1RB(20MHz) Body Back/Middle Channel/Zoom Scan

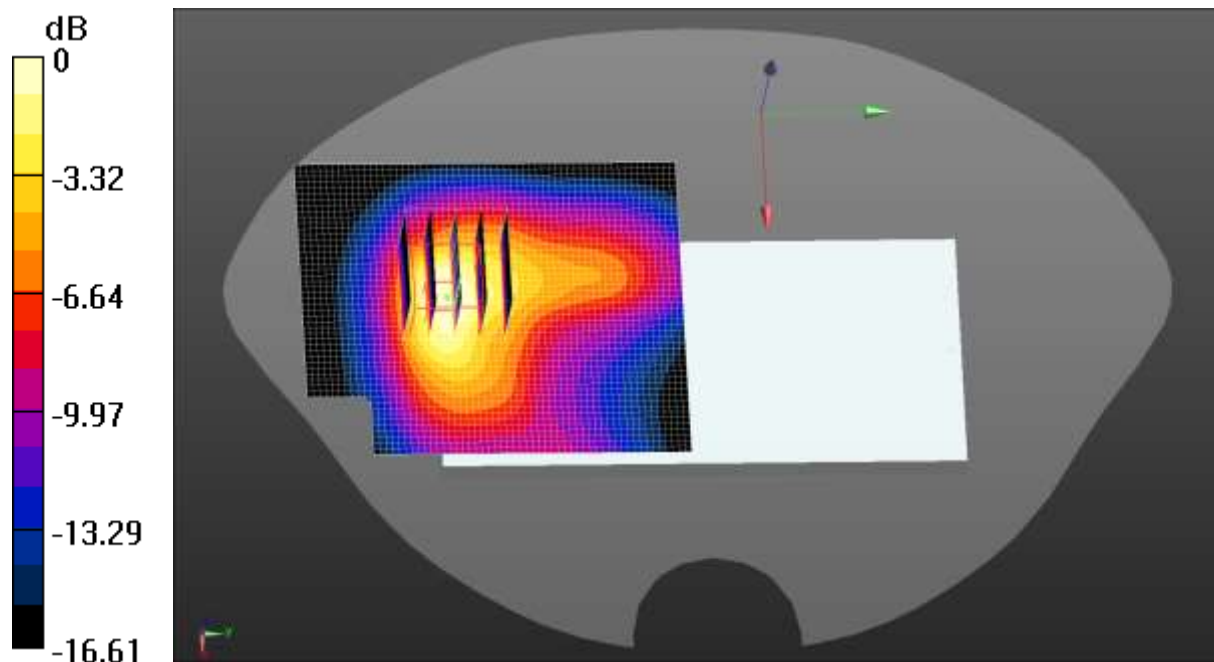
(5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.978 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.497 W/kg; SAR(10 g) = 0.214 W/kg

Maximum value of SAR (measured) = 0.846 W/kg



0 dB = 0.846 W/kg = -0.73 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.21.2021 13:02:42

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-FDD(USA) 20MHz 50%RB QPSK (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.412 \text{ S/m}$; $\epsilon_r = 39.905$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

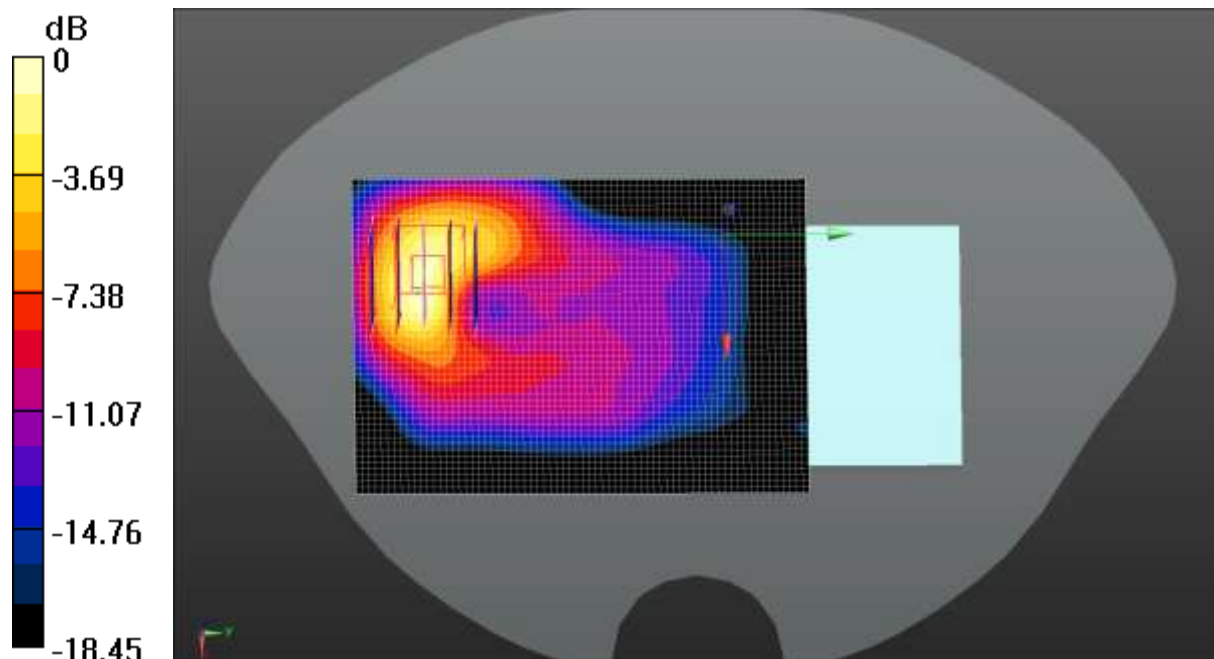
- Probe: EX3DV4 - SN3924; ConvF(8.14, 8.14, 8.14); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 2 50%RB(20MHz) Body Back/High Channel/Area Scan (51x71x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.105 W/kg

LTE Band 2 50%RB(20MHz) Body Back/High Channel/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 2.217 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.148 W/kg
SAR(1 g) = 0.077 W/kg; SAR(10 g) = 0.038 W/kg
Maximum value of SAR (measured) = 0.118 W/kg



0 dB = 0.118 W/kg = -9.28 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.21.2021 19:25:09

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-FDD(USA) 20MHz 50%RB QPSK (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5 \text{ MHz}$; $\sigma = 1.364 \text{ S/m}$; $\epsilon_r = 40.591$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.43, 8.43, 8.43); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 4 50%RB(20MHz) Body Back/Middle Channel/Area Scan

(51x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0975 W/kg

LTE Band 4 50%RB(20MHz) Body Back/Middle Channel/Zoom Scan

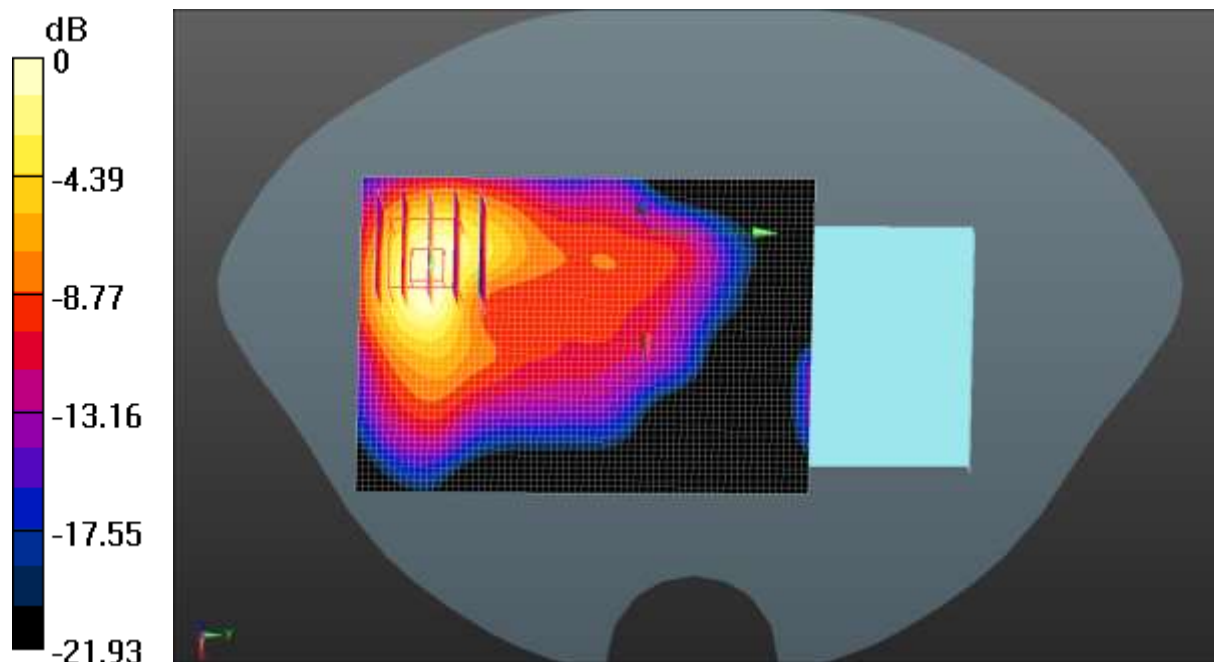
(5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.229 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.125 W/kg

SAR(1 g) = 0.067 W/kg; SAR(10 g) = 0.035 W/kg

Maximum value of SAR (measured) = 0.102 W/kg



0 dB = 0.102 W/kg = -9.91 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.09.2021 13:56:59

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-FDD(USA) 20MHz 50%RB QPSK (0); Frequency: 2560 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.964$ S/m; $\epsilon_r = 38.238$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.58, 7.58, 7.58); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 7 50%RB(20MHz) Body Back/High Channel/Area Scan (51x71x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.108 W/kg

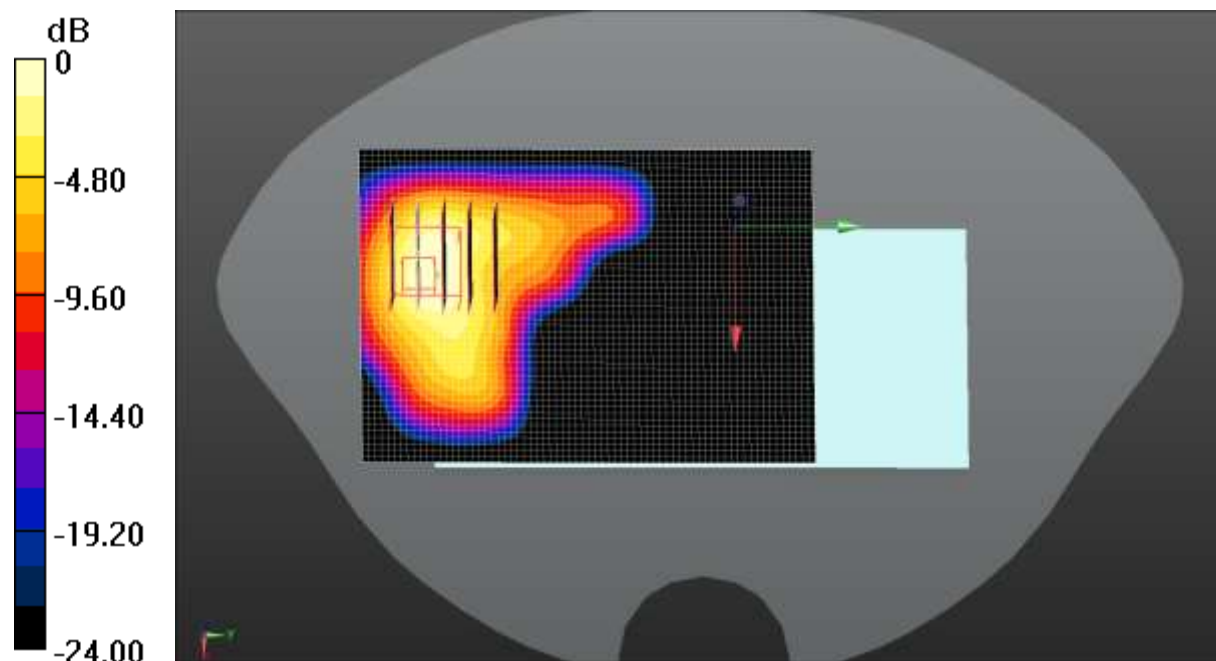
LTE Band 7 50%RB(20MHz) Body Back/High Channel/Zoom Scan**(5x5x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.127 W/kg

SAR(1 g) = 0.054 W/kg; SAR(10 g) = 0.022 W/kg

Maximum value of SAR (measured) = 0.0984 W/kg



0 dB = 0.0984 W/kg = -10.07 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.12.2021 02:44:06

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-FDD (USA) 10MHz 50%RB QPSK (0); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 829 \text{ MHz}$; $\sigma = 0.89 \text{ S/m}$; $\epsilon_r = 41.878$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(9.71, 9.71, 9.71); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 5 50%RB(10MHz) Body Back/Low Channel/Zoom Scan

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

Reference Value = 13.37 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.506 W/kg

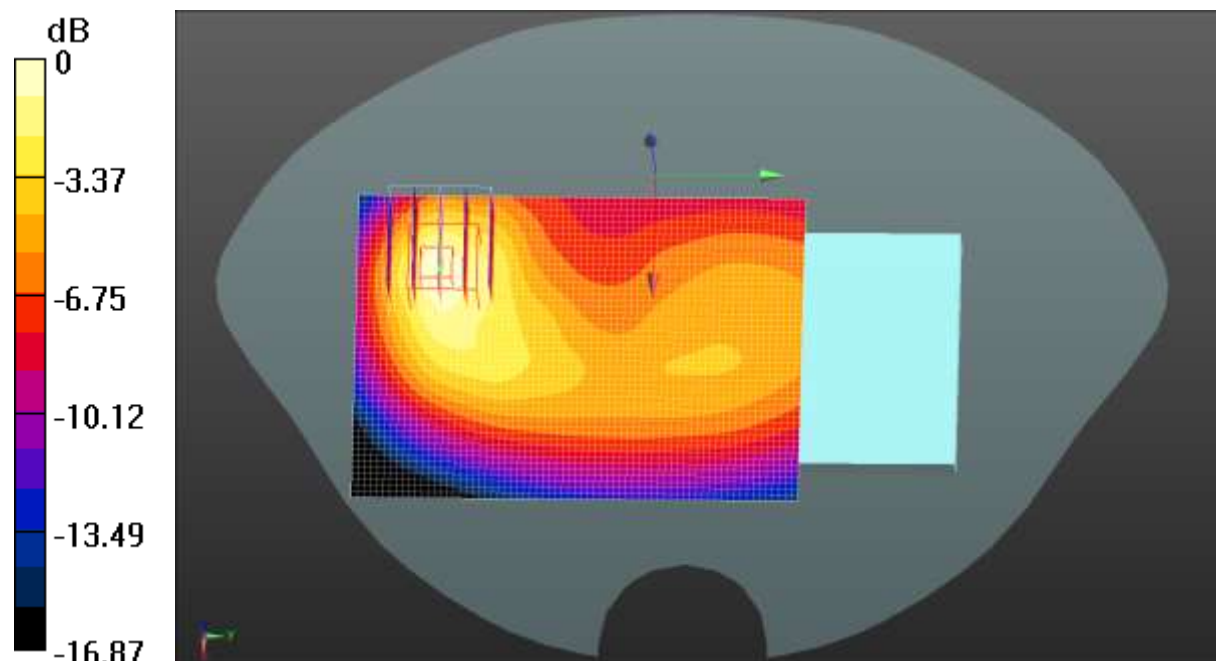
SAR(1 g) = 0.264 W/kg; SAR(10 g) = 0.157 W/kg

Maximum value of SAR (measured) = 0.397 W/kg

LTE Band 5 50%RB(10MHz) Body Back/Low Channel/Area Scan (51x71x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.458 W/kg



0 dB = 0.458 W/kg = -3.39 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.12.2021 04:42:04

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-FDD (USA) 10MHz 50%RB QPSK (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 711 \text{ MHz}$; $\sigma = 0.845 \text{ S/m}$; $\epsilon_r = 42.287$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(10.11, 10.11, 10.11); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 17 50%RB(10MHz) Body Back/High Channel/Zoom Scan

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

Reference Value = 14.66 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.240 W/kg

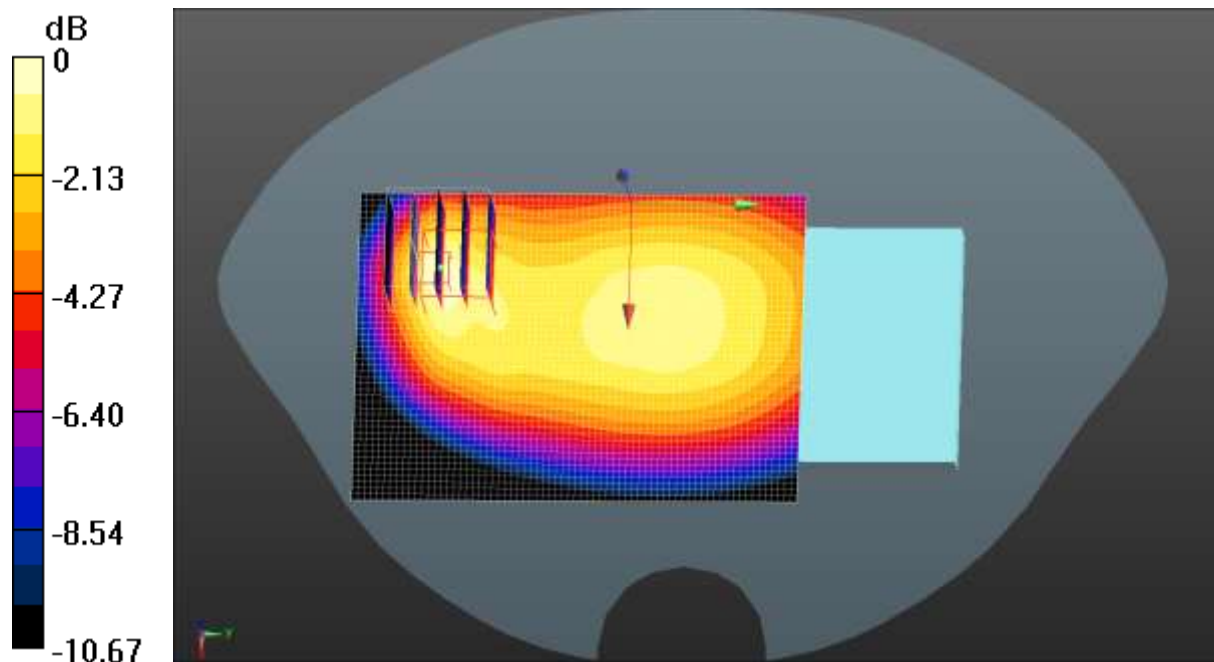
SAR(1 g) = 0.121 W/kg; SAR(10 g) = 0.079 W/kg

Maximum value of SAR (measured) = 0.179 W/kg

LTE Band 17 50%RB(10MHz) Body Back/High Channel/Area Scan (51x71x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.219 W/kg



0 dB = 0.219 W/kg = -6.60 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.10.2021 05:31:56

DUT: Mobile Phone; Type: X693; Serial: 2#

Communication System: UID 0, LTE-TDD(USA) 20MHz 50%RB QPSK (0); Frequency: 2610 MHz; Duty Cycle: 1:1.59956

Medium parameters used: $f = 2610 \text{ MHz}$; $\sigma = 2.026 \text{ S/m}$; $\epsilon_r = 38.043$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.35, 7.35, 7.35); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 38 50%RB(20MHz) Body Back/High Channel/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.695 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.933 W/kg

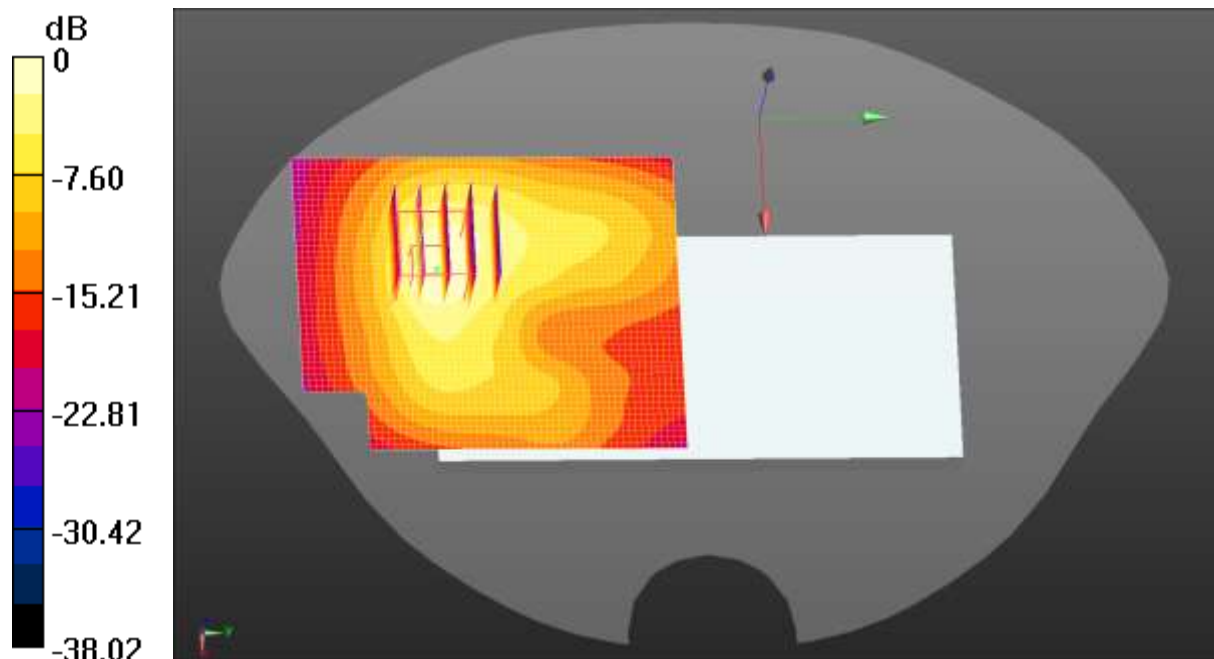
SAR(1 g) = 0.387 W/kg; SAR(10 g) = 0.169 W/kg

Maximum value of SAR (measured) = 0.654 W/kg

LTE Band 38 50%RB(20MHz) Body Back/High Channel/Area Scan (51x61x1):

Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.861 W/kg



0 dB = 0.861 W/kg = -0.65 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.10.2021 16:10:51

DUT: Mobile Phone; Type: X693; Serial: 2#

Communication System: UID 0, LTE-TDD(USA) 20MHz 50%RB QPSK (0); Frequency: 2595 MHz; Duty Cycle: 1:1.59956

Medium parameters used (interpolated): $f = 2595$ MHz; $\sigma = 2.005$ S/m; $\epsilon_r = 38.133$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.35, 7.35, 7.35); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 41 50%RB(20MHz) Body Back/Middle Channel/Area Scan

(51x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.764 W/kg

LTE Band 41 50%RB(20MHz) Body Back/Middle Channel/Zoom Scan

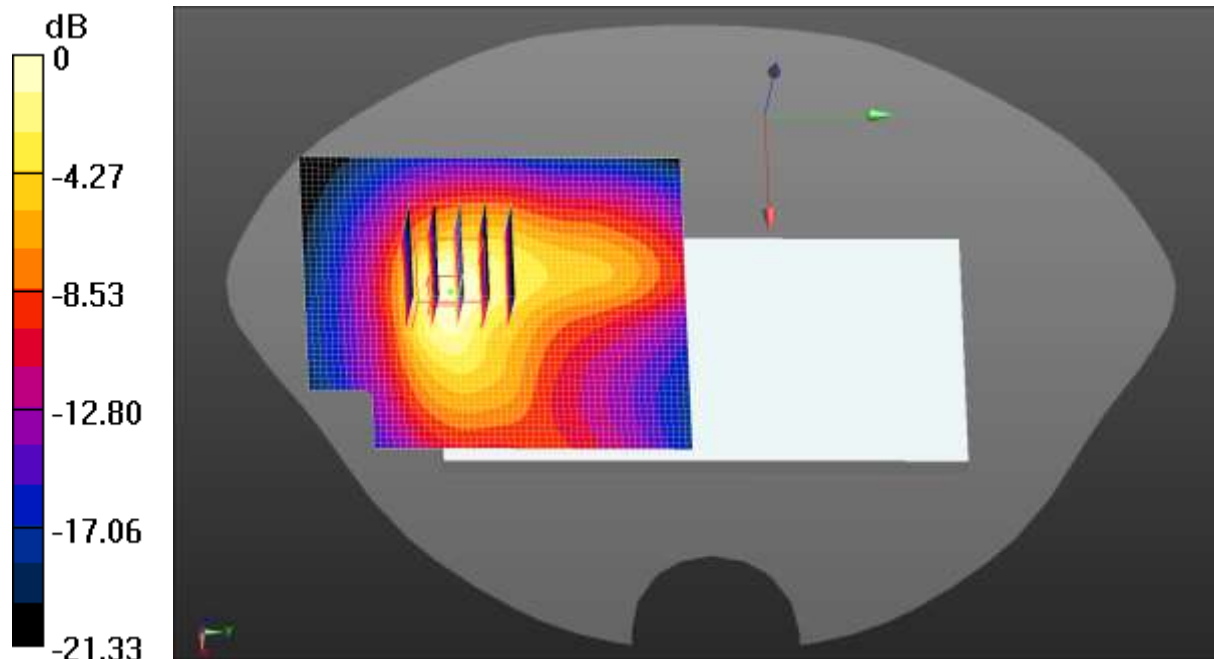
(5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.575 V/m; Power Drift = 0.32 dB

Peak SAR (extrapolated) = 0.955 W/kg

SAR(1 g) = 0.399 W/kg; SAR(10 g) = 0.171 W/kg

Maximum value of SAR (measured) = 0.688 W/kg



0 dB = 0.688 W/kg = -1.62 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.10.2021 06:05:02

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps) (0);
 Frequency: 2412 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.803 \text{ S/m}$; $\epsilon_r = 38.495$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

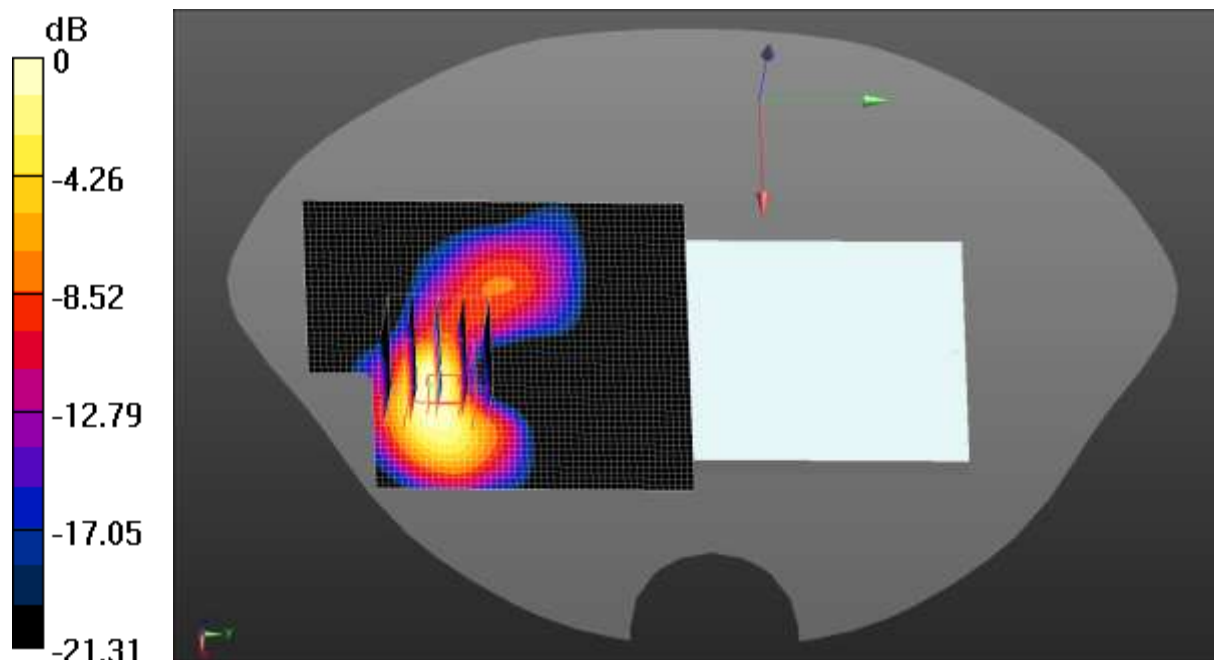
- Probe: EX3DV4 - SN3924; ConvF(7.58, 7.58, 7.58); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

WIFI Body Back/Low Channel/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 0 V/m; Power Drift = 0.02 dB
 Peak SAR (extrapolated) = 0.178 W/kg
SAR(1 g) = 0.077 W/kg; SAR(10 g) = 0.030 W/kg
 Maximum value of SAR (measured) = 0.127 W/kg

WIFI Body Back/Low Channel/Area Scan (51x61x1): Interpolated grid: $dx=1.200$

mm , $dy=1.200 \text{ mm}$
 Maximum value of SAR (interpolated) = 0.110 W/kg



0 dB = 0.110 W/kg = -9.59 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.19.2021 17:39:12

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5240 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5240 \text{ MHz}$; $\sigma = 4.819 \text{ S/m}$; $\epsilon_r = 35.553$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(5.42, 5.42, 5.42); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

5.2G WIFI Body Back/High Channel/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0 V/m; Power Drift = -0.01 dB

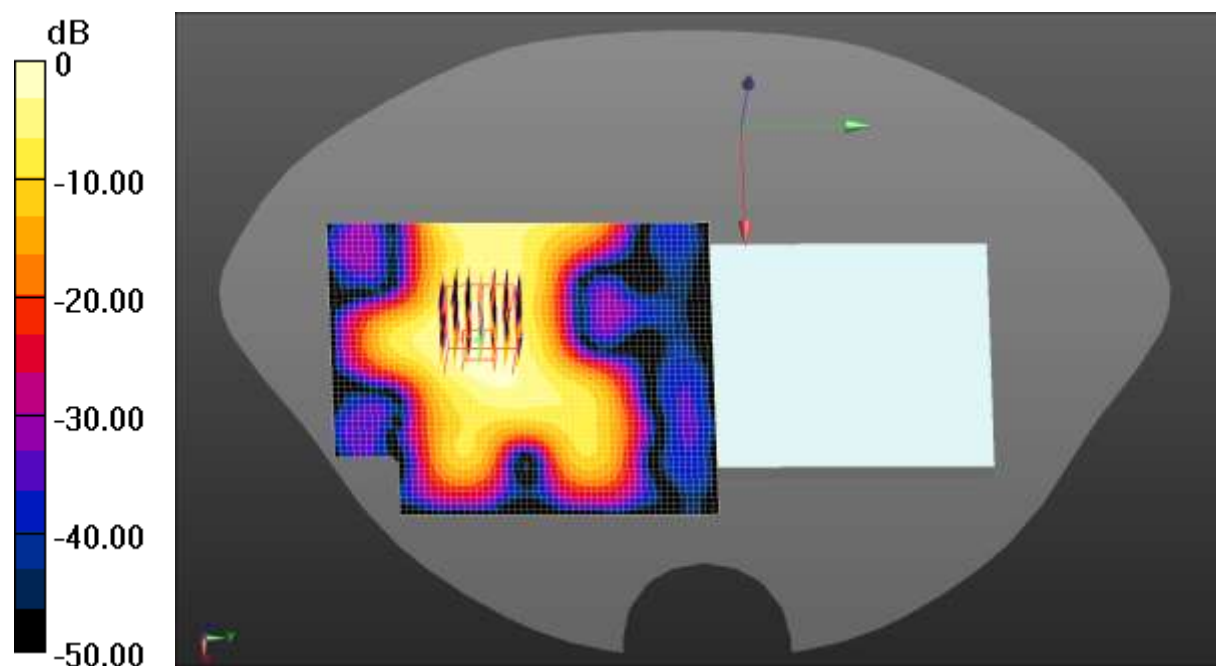
Peak SAR (extrapolated) = 0.131 W/kg

SAR(1 g) = 0.031 W/kg; SAR(10 g) = 0.00978 W/kg

Maximum value of SAR (measured) = 0.0815 W/kg

5.2G WIFI Body Back/High Channel/Area Scan (51x61x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0677 W/kg



0 dB = 0.0677 W/kg = -11.69 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.19.2021 23:19:16

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5785$ MHz; $\sigma = 5.228$ S/m; $\epsilon_r = 34.976$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(4.96, 4.96, 4.96); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

5.8G WIFI Body Back/Middle Channel/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.237 W/kg

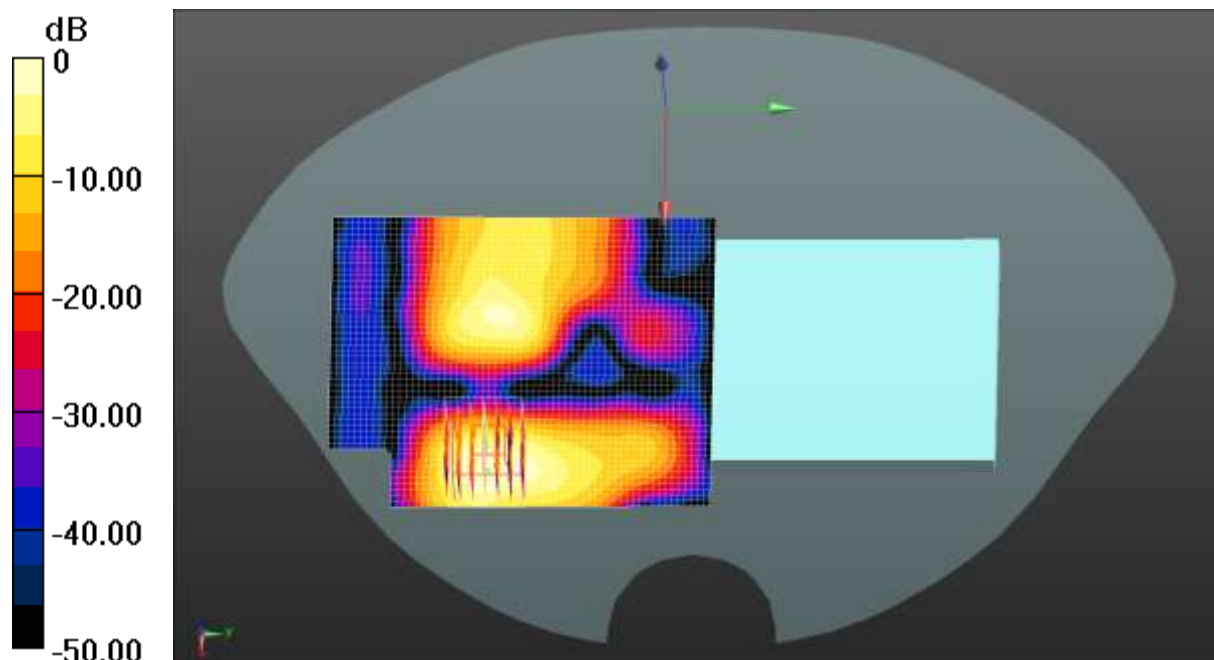
SAR(1 g) = 0.037 W/kg; SAR(10 g) = 0.011 W/kg

Maximum value of SAR (measured) = 0.116 W/kg

5.8G WIFI Body Back/Middle Channel/Area Scan (51x61x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.196 W/kg



0 dB = 0.196 W/kg = -7.08 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.11.2021 14:36:28

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, GPRS(2 Slots) (0); Frequency: 848.8 MHz; Duty Cycle: 1:4.10015

Medium parameters used (interpolated): $f = 848.8 \text{ MHz}$; $\sigma = 0.913 \text{ S/m}$; $\epsilon_r = 41.752$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(9.71, 9.71, 9.71); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

GPRS 850 2Slots Body Back/High Channel/Area Scan (51x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.737 W/kg

GPRS 850 2Slots Body Back/High Channel/Zoom Scan (5x5x7)/Cube 0:

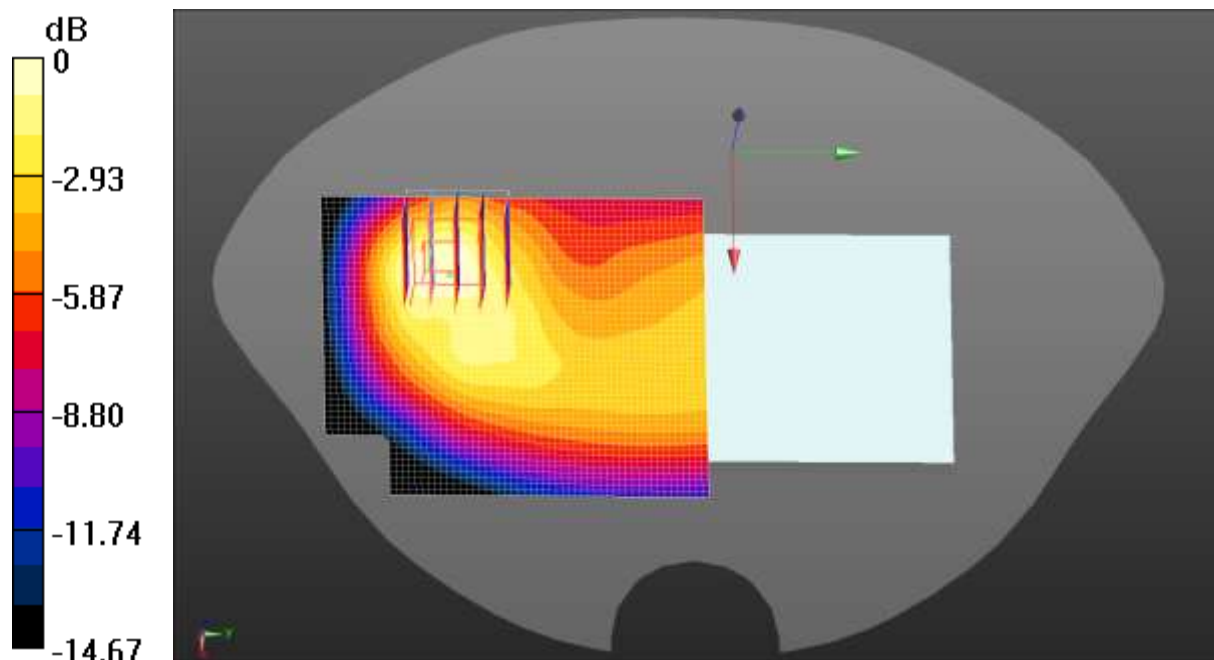
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 19.64 V/m; Power Drift = -0.28 dB

Peak SAR (extrapolated) = 0.881 W/kg

SAR(1 g) = 0.468 W/kg; SAR(10 g) = 0.278 W/kg

Maximum value of SAR (measured) = 0.710 W/kg



0 dB = 0.710 W/kg = -1.49 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.22.2021 00:58:45

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, GPRS(2 Slots) (0); Frequency: 1909.8 MHz; Duty Cycle: 1:4.10015

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.418$ S/m; $\epsilon_r = 39.874$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.14, 8.14, 8.14); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

GPRS 1900 2Slots Body Back/High Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.306 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.44 W/kg

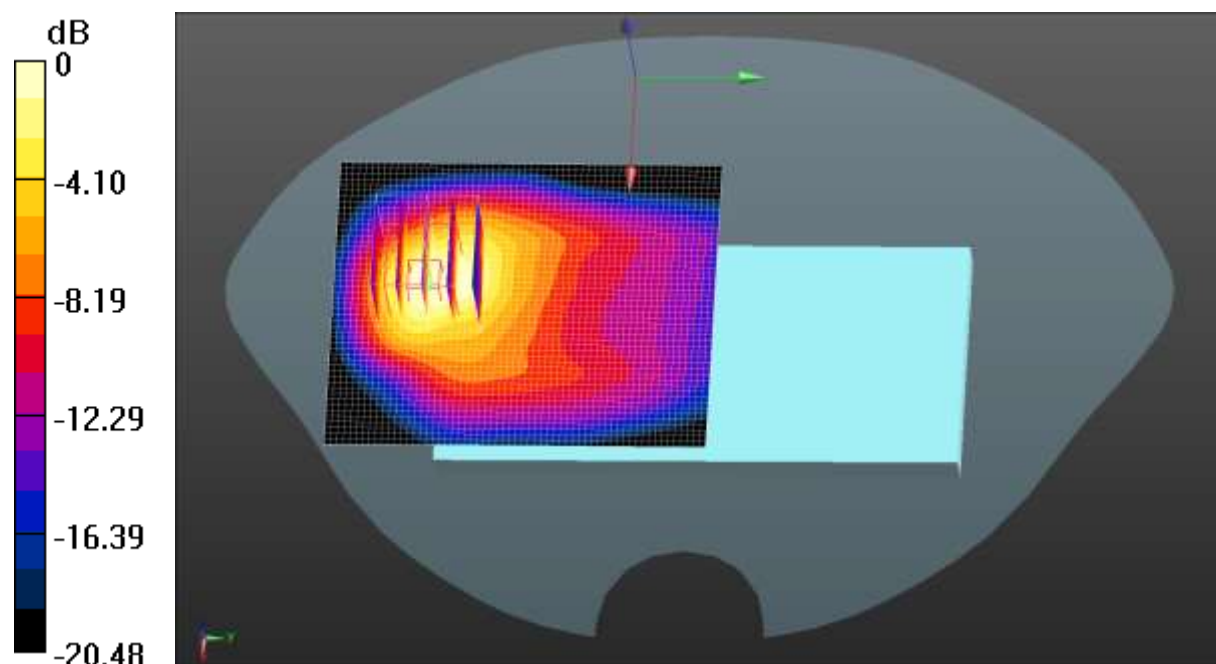
SAR(1 g) = 0.656 W/kg; SAR(10 g) = 0.290 W/kg

Maximum value of SAR (measured) = 1.15 W/kg

GPRS 1900 2Slots Body Back/High Channel/Area Scan (51x61x1): Interpolated

grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.580 W/kg



0 dB = 0.580 W/kg = -2.37 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.21.2021 21:51:48

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1907.6 \text{ MHz}$; $\sigma = 1.416 \text{ S/m}$; $\epsilon_r = 39.882$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.14, 8.14, 8.14); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

WCDMA 1900 Body Top/High Channel/Area Scan (41x51x1): Interpolated grid:

$dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.198 W/kg

WCDMA 1900 Body Top/High Channel/Zoom Scan (5x5x7)/Cube 0:

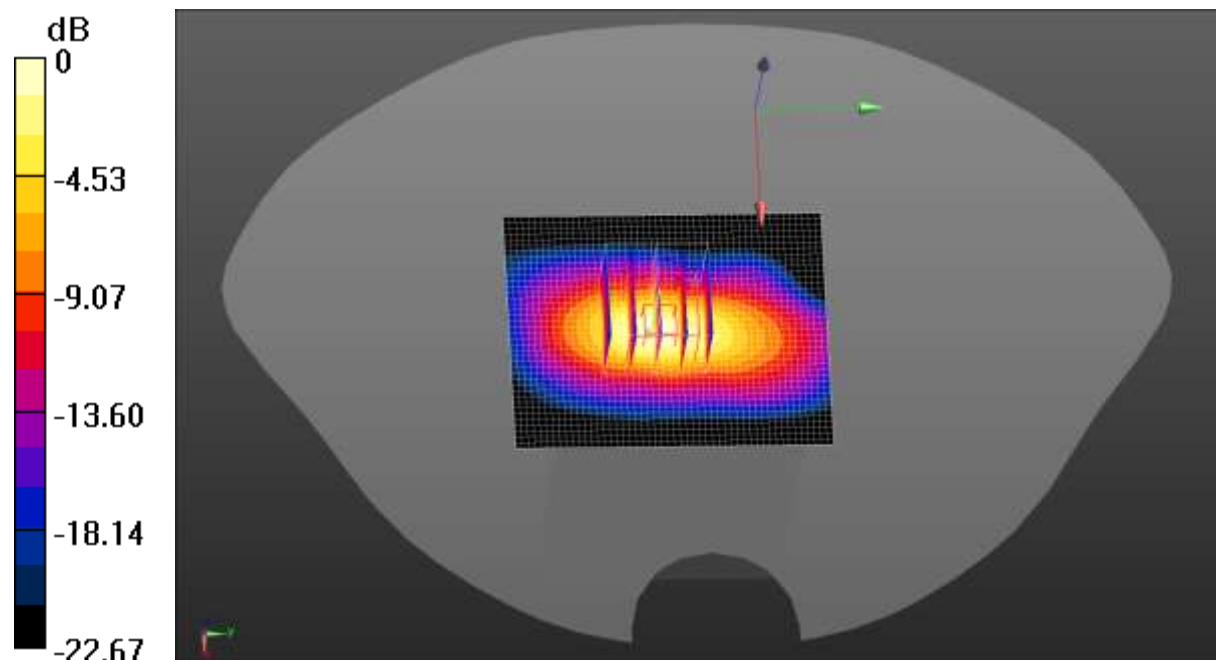
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.19 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.259 W/kg

SAR(1 g) = 0.130 W/kg; SAR(10 g) = 0.061 W/kg

Maximum value of SAR (measured) = 0.207 W/kg



0 dB = 0.207 W/kg = -6.84 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.21.2021 12:05:24

DUT: Mobile Phone; Type: CG6j; Serial: 2#

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 1860 MHz;
Duty Cycle: 1:1

Medium parameters used: $f = 1860 \text{ MHz}$; $\sigma = 1.399 \text{ S/m}$; $\epsilon_r = 40.054$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.14, 8.14, 8.14); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 2 1RB(20MHz) Body Top/Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.870 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.155 W/kg

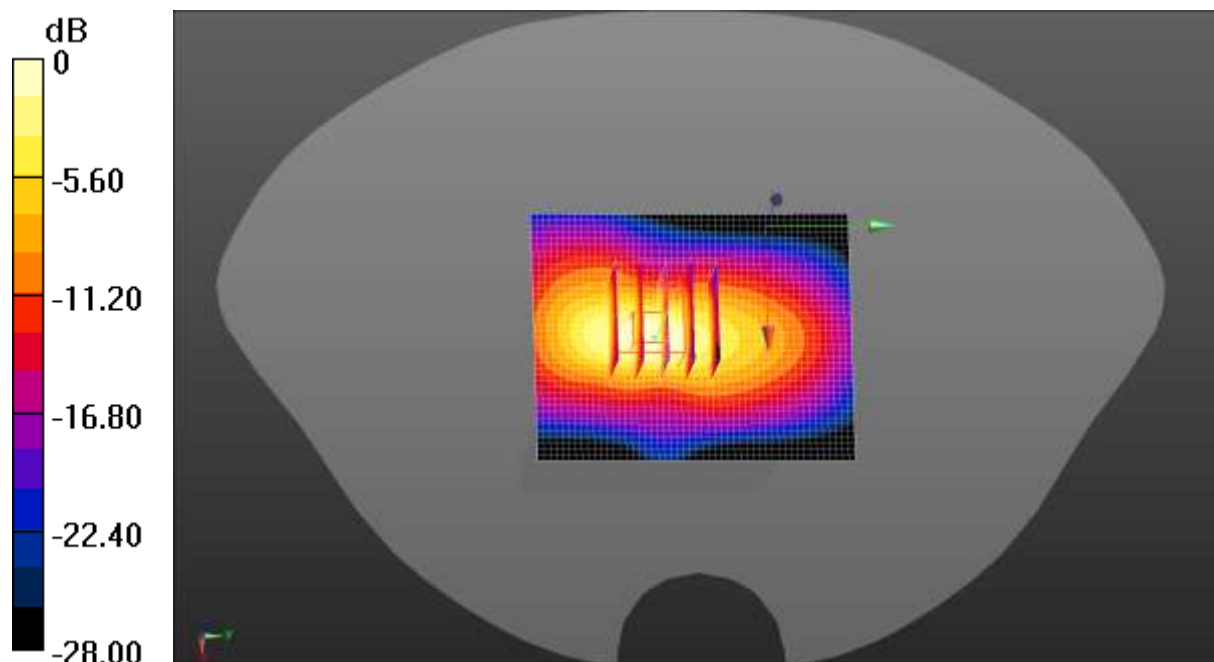
SAR(1 g) = 0.080 W/kg; SAR(10 g) = 0.039 W/kg

Maximum value of SAR (measured) = 0.126 W/kg

LTE Band 2 1RB(20MHz) Body Top/Low Channel/Area Scan (41x51x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.122 W/kg



0 dB = 0.122 W/kg = -9.14 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.21.2021 18:35:05

DUT: Mobile Phone; Type: X693; Serial: 2#

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 1720 MHz;

Duty Cycle: 1:1

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.358$ S/m; $\epsilon_r = 40.642$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.43, 8.43, 8.43); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 4 1RB(20MHz) Body Top/Low Channel/Area Scan (41x51x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.174 W/kg

LTE Band 4 1RB(20MHz) Body Top/Low Channel/Zoom Scan (5x5x7)/Cube 0:

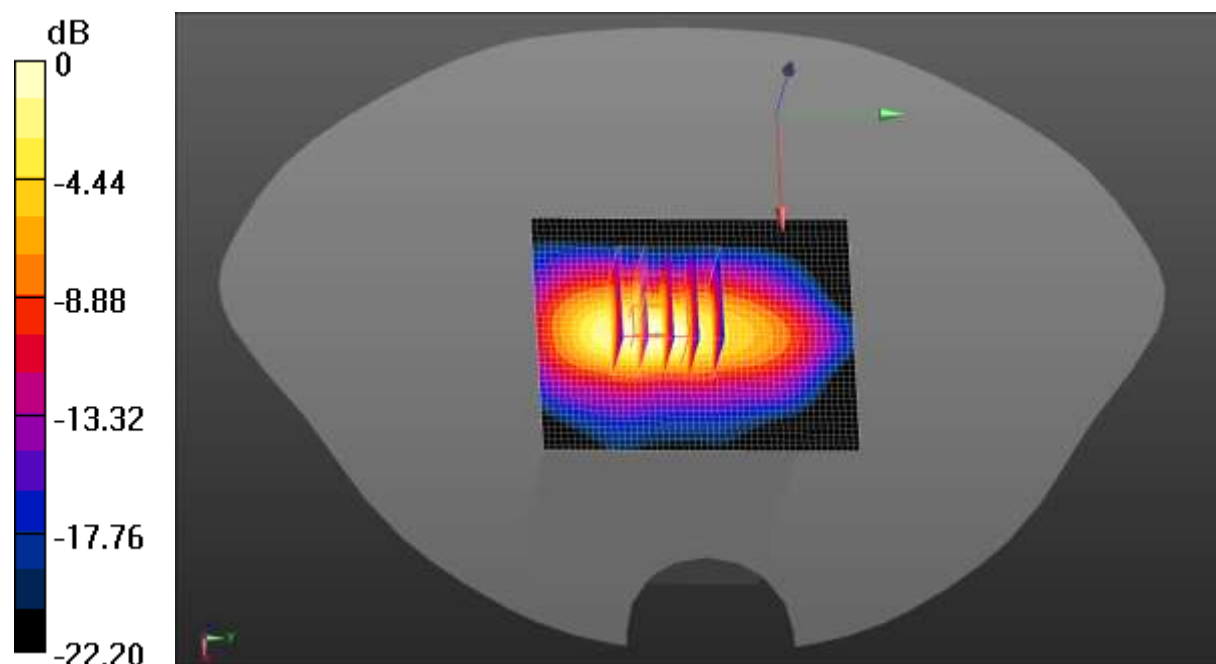
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.429 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.221 W/kg

SAR(1 g) = 0.117 W/kg; SAR(10 g) = 0.059 W/kg

Maximum value of SAR (measured) = 0.178 W/kg



0 dB = 0.178 W/kg = -7.50 dBW/kg

Test Laboratory: JYTSZ

Date/Time: 01.09.2021 15:07:11

DUT: Mobile Phone; Type: X693; Serial: 2#

Communication System: UID 0, LTE-TDD(USA) 20MHz 1RB QPSK (0); Frequency: 2595 MHz; Duty Cycle: 1:1.59956

Medium parameters used (interpolated): $f = 2595$ MHz; $\sigma = 2.005$ S/m; $\epsilon_r = 38.133$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.35, 7.35, 7.35); Calibrated: 09.23.2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 07.27.2020
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 41 1RB(20MHz) Body Top/Middle Channel/Zoom Scan**(5x5x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.08 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.549 W/kg; SAR(10 g) = 0.226 W/kg

Maximum value of SAR (measured) = 1.02 W/kg

LTE Band 41 1RB(20MHz) Body Top/Middle Channel/Area Scan (41x51x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.03 W/kg

