



SAR Test Report

STS2601444H01

Issued for

Shenzhen DOOGEE Hengtong Technology CO.,LTD

B, 2/F, Building A4, Silicon Valley Power Digital Industrial
Park, No.22,Longhua New District Shenzhen China

Product Name: Smart Phone

Brand Name: DOOGEE

Model Name: B10

Series Model(s): B10 Pro,B10 Plus,B10 Max,B10 Pro
Max,B10 Ultra,B10 Power,B10 SE,B10
Lite,B10 Turbo,B20,B20 Pro,B20
Plus,B20 Max,B20 Ultra

FCC ID: 2AX4YB10

Test Standard: ANSI/IEEE Std. C95.1
FCC 47 CFR Part 2 (2.1093)
IEEE Std. 1528-2013

Head: 0.573 W/kg

Max. Report SAR (1g) Body-worn: 0.788 W/kg

Hotspot: 0.375 W/kg

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT CERTIFICATION**

Applicant's name.....: Shenzhen DOOGEE Hengtong Technology CO.,LTD
Address.....: B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park,
No.22,Longhua New District Shenzhen China
Manufacturer's Name.....: Shenzhen DOOGEE Hengtong Technology CO.,LTD
Address.....: B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park,
No.22,Longhua New District Shenzhen China

Product description

Product name.....: Smart Phone
Brand name: DOOGEE
Model name: B10
Series Model.....: B10 Pro,B10 Plus,B10 Max,B10 Pro Max,B10 Ultra,B10
Power,B10 SE,B10 Lite,B10 Turbo,B20,B20 Pro,B20 Plus,B20
Max,B20 Ultra
Standards.....: ANSI/IEEE Std. C95.1
FCC 47 CFR Part 2 (2.1093)
IEEE Std. 1528-2013

The device was tested by Shenzhen STS Test Services Co., Ltd. in accordance with the measurement methods and procedures specified in KDB 865664 The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Date of Test.....:

Date (s) of performance of tests.....: Dec. 02, 2025 ~ Dec. 17, 2025

Date of Issue.....: Feb. 09, 2026

Test Result.....: **Pass**

Testing Engineer :

Xin Liu

(Xin.Liu)

Technical Manager :

Shi fan-long

(Shifan. Long)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





Table of Contents

1. General Information	6
1.1 EUT Description	6
1.2 Test Environment	8
1.3 Test Factory	8
2. Test Standards and Limits	9
3. SAR Measurement System	10
3.1 Definition of Specific Absorption Rate (SAR)	10
3.2 SAR System	10
3.3 DASY5 E-field Probe System	12
3.4 Phantoms	13
3.5 Device Holder	13
3.6 Scanning Procedure	14
3.7 Data Storage and Evaluation	15
4. Tissue Simulating Liquids	17
5. SAR System Validation	22
5.1 Validation System	22
5.2 Validation Result	22
6. SAR Evaluation Procedures	23
7. EUT Antenna Location Sketch	24
8. EUT Test Position	24
8.1 Define Two Imaginary Lines on the Handset	24
9. Uncertainty	26
9.1 Measurement Uncertainty	27
10. Conducted Power Measurement	30
10.1 Test Result	30
11. EUT and Test Setup Photo	48
11.1 EUT Photo	48
11.2 Setup Photo	51
12. SAR Result Summary	54
12.1 Head SAR	54
12.2 Body-worn and Hotspot SAR	59
13. Equipment List	67
Appendix A. System Validation Plots	67
Appendix B. SAR Test Plots	78
Appendix C. Probe Calibration and Dipole Calibration Report	126

**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	Feb. 09, 2026	STS2601444H01	ALL	Initial Issue



1. General Information

Environmental evaluation measurements of specific absorption rate (SAR) distributions in emulated human head and body tissues exposed to radio frequency (RF) radiation from wireless portable devices for compliance with the rules and regulations of the U.S. Federal Communications Commission (FCC).

1.1 EUT Description

Product Name	Smart Phone
Brand Name	DOOGEE
Model Name	B10
Series Model	B10 Pro,B10 Plus,B10 Max,B10 Pro Max,B10 Ultra,B10 Power,B10 SE,B10 Lite,B10 Turbo,B20,B20 Pro,B20 Plus,B20 Max,B20 Ultra
Model Difference	Only the model name, appearance color, and memory different
Sample number	202512030001
Battery	Rated Voltage:3.84V ChargeLimit Voltage:4.53V Capacity: 7600mAh
Device Category	Portable
Product stage	Production unit
RF Exposure Environment	General Population / Uncontrolled
Hardware Version	G13U_MB_V1.0.1_20251126
Software Version	DOOGEE-B10-EEA-Android16.0_20260112_user
Frequency Range	GSM 850: 824 MHz ~ 849 MHz PCS1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 698 MHz ~ 716 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 66: 1710 MHz ~ 1780 MHz WLAN802.11b/g/n20: 2412 MHz ~ 2462 MHz WLAN 802.11n40: 2422 MHz ~ 2452 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5150 ~ 5250 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5725 ~ 5850 MHz Bluetooth: 2402 MHz to 2480 MHz



	Band	Mode	Head(W/kg)	Body-Worn(W/kg)	Hotspot(W/kg)
Max. Reported SAR(1g): (Limit:1.6W/kg) Test distance: Head:0mm Body-worn:5mm Hotspot: 10mm	PCE	GSM 850	0.028	0.105	0.051
	PCE	GSM 1900	0.019	0.208	0.106
	PCE	WCDMA Band II	0.052	0.303	0.118
	PCE	WCDMA Band IV	0.019	0.053	0.023
	PCE	LTE Band 2	0.052	0.788	0.211
	PCE	LTE Band 4	0.068	0.652	0.375
	PCE	LTE Band 5	0.017	0.265	0.031
	PCE	LTE Band 7	0.040	0.265	0.073
	PCE	LTE Band 12	0.016	0.268	0.040
	PCE	LTE Band 17	0.016	0.262	0.041
	PCE	LTE Band 25	0.031	0.759	0.234
	PCE	LTE Band 66	0.043	0.650	0.357
	DTS	2.4G WLAN	0.408	0.178	0.074
	DSS	BT	0.150	0.122	0.006
	NII	5.2G WLAN	0.573	0.165	0.058
	NII	5.8G WLAN	0.375	0.131	0.014
1-g Sum SAR			1.040	1.131	0.507
FCC Equipment Class	Licensed Portable Transmitter Held to Ear (PCE) Part 15 Spread Spectrum Transmitter (DSS) Digital Transmission System (DTS) Unlicensed National Information Infrastructure TX(NII)				
Operating Mode:	GSM: GSM Voice; GPRS/EGPRS Class 12 WCDMA: RMC, HSDPA, HSUPA Release 6 LTE: QPSK, 16QAM 2.4G WLAN : 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 5G WLAN: 802.11a(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11ac(OFDM):BPSK,QPSK,16-QAM,64-QAM Bluetooth: GFSK + $\pi/4$ DQPSK+8DPSK BLE: GFSK				
Antenna Specification:	GSM/WCDMA/LTE: PIFA Antenna Bluetooth: PIFA Antenna WLAN: PIFA Antenna				
SIM Card	Support dual-SIM, dual standby, the multiple SIM card with two lines cannot transmitting at the same time				
Hotspot Mode	Support				
DTM Mode	Not Support				



1.2 Test Environment

Ambient conditions in the SAR laboratory:

Items	Required
Temperature (°C)	18-25
Humidity (%RH)	30-70

1.3 Test Factory

ShenZhen STS Test Services Co.,Ltd.

A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration No.: 625569

IC Registration No.: 12108A

A2LA Certificate No.: 4338.01



2. Test Standards and Limits

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	IEEE Std C95.1, 2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz. It specifies the maximum exposure limit of 1.6 W/kg as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D04 v01	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
5	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
7	FCC KDB 941225 D01 v03r01	SAR Measurement Procedures for 3G Devices
8	FCC KDB 941225 D05 v02r05	SAR for LTE Devices
9	FCC KDB 941225 D06 v02r01	Hotspot Mode SAR
10	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
11	FCC KDB 248227 D01 Wi-Fi SAR v02r02	SAR Considerations for 802.11 Devices

(A). Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

(B). Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

NOTE: Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1 gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Population/Uncontrolled Environments:

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

Occupational/Controlled Environments:

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

NOTE

GENERAL POPULATION/UNCONTROLLED EXPOSURE

PARTIAL BODY LIMIT

1.6 W/kg

3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

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.

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:

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

SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

Where: σ is the conductivity of the tissue,

ρ is the mass density of the tissue and E is the RMS electrical field strength.

3.2 SAR System

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

A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).

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

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

A unit to operate the optical surface detector which is connected to the EOC.

The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY5 measurement server.

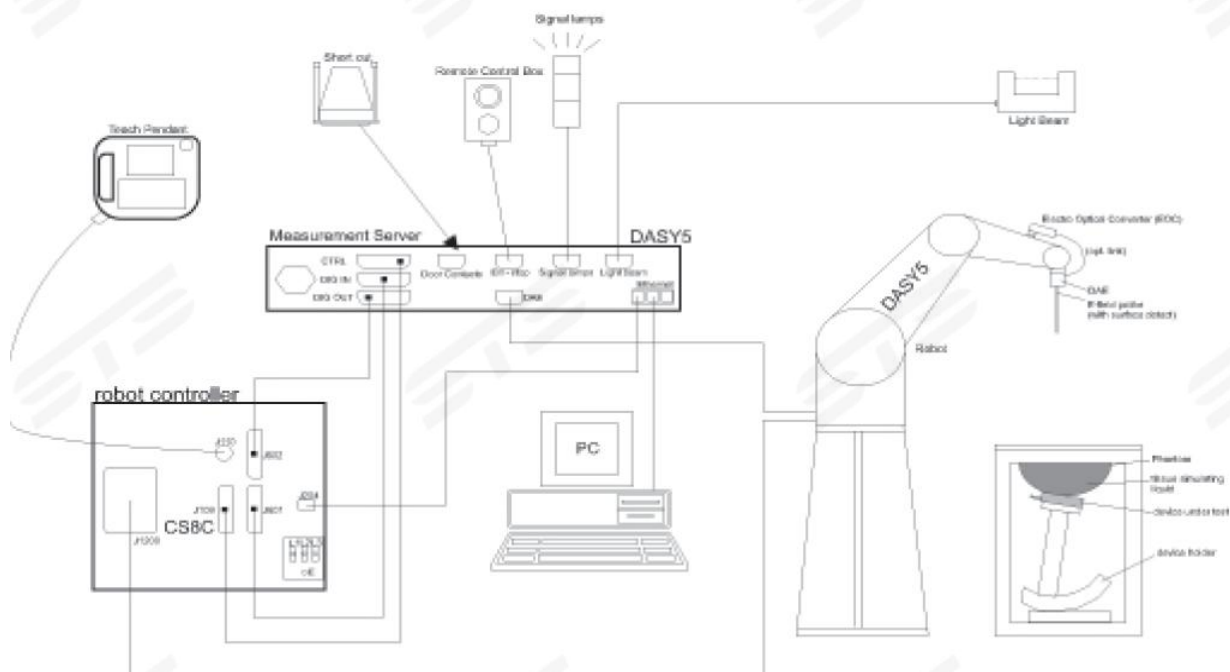
The DASY5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation. A computer operating Windows 2003.

DASY5 software and SEMCAD data evaluation software.

Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.



System validation dipoles allowing to validate the proper functioning of the system.



3.3 DASY5 E-field Probe System

The SAR measurements were conducted with the dosimetric probe ES3DV3 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation.

Probe Specification

Construction Symmetrical design with triangular core
Interleaved sensors
Built-in shielding against static charges
PEEK enclosure material (resistant to organic solvents, e.g., DGBE)

Calibration ISO/IEC 17025 calibration service available.

Frequency 10 MHz to 4 GHz;
Linearity: ± 0.2 dB (30 MHz to 4 GHz)

Directivity ± 0.2 dB in HSL (rotation around probe axis)
 ± 0.3 dB in tissue material (rotation normal to probe axis)

Dynamic Range 5 μ W/g to > 100 mW/g;
Linearity: ± 0.2 dB

Dimensions Overall length: 337 mm (Tip: 20 mm)
Tip diameter: 3.9 mm (Body: 12 mm)
Distance from probe tip to dipole centers: 2.0 mm

Application General dosimetry up to 4 GHz
Dosimetry in strong gradient fields
Compliance tests of Mobile Phones

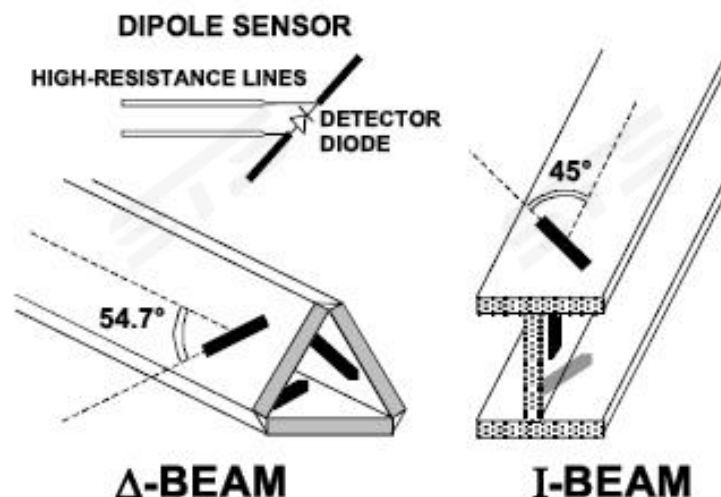
Compatibility DASY3, DASY5, DASY52 SAR and higher,
EASY4/MRI

Isotropic E-Field Probe

The isotropic E-Field probe has been fully calibrated and assessed for isotropicity, and boundary effect within a controlled environment. Depending on the frequency for which the probe is calibrated the method utilized for calibration will change.

The E-Field probe utilizes a triangular sensor arrangement as detailed in the diagram below:





3.4 Phantoms

The phantom used for all tests i.e. for both system checks and device testing, was the twin-headed "SAM Phantom", manufactured by SPEAG. The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region, where shell thickness increases to 6mm). System checking was performed using the flat section, whilst Head SAR tests used the left and right head profile sections. Body SAR testing also used the flat section between the head profiles.



SAM Twin Phantom

3.5 Device Holder

The device was placed in the device holder (illustrated below) that is supplied by SPEAG as an integral part of the DASY system.

The DASY device holder is designed to cope with the different positions given in the standard. It has two scales for device rotation (with respect to the body axis) and device inclination (with respect to the line between the ear reference points). The rotation centers for both scales is the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.



Device holder supplied by SPEAG

3.6 Scanning Procedure

The DASY5 installation includes predefined files with recommended procedures for measurements and validation. They are read-only document files and destined as fully defined but unmeasured masks. All test positions (head or body-worn) are tested with the same configuration of test steps differing only in the grid definition for the different test positions.

The “reference” and “drift” measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure. The indicated drift is mainly the variation of the DUT’s output power and should vary max. $\pm 5\%$.

The “surface check” measurement tests the optical surface detection system of the DASY5 system by repeatedly detecting the surface with the optical and mechanical surface detector and comparing the results. The output gives the detecting heights of both systems, the difference between the two systems and the standard deviation of the detection repeatability. Air bubbles or refraction in the liquid due to separation of the sugar-water mixture gives poor repeatability (above $\pm 0.1\text{ mm}$). To prevent wrong results tests are only executed when the liquid is free of air bubbles. The difference between the optical surface detection and the actual surface depends on the probe and is specified with each probe (It does not depend on the surface reflectivity or the probe angle to the surface within $\pm 30^\circ$.)

Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values before running a detailed measurement around the hot spot. Before starting the area scan a grid spacing of $15\text{ mm} \times 15\text{ mm}$ is set. During the scan the distance of the probe to the phantom remains unchanged. After finishing area scan, the field maxima within a range of 2 dB will be ascertained.

Zoom Scan

Zoom Scans are used to estimate the peak spatial SAR values within a cubic averaging volume



containing 1 g and 10 g of simulated tissue. The default Zoom Scan is done by 7x7x7 points within a cube whose base is centered around the maxima found in the preceding area scan.

Spatial Peak Detection

The procedure for spatial peak SAR evaluation has been implemented and can determine values of masses of 1g and 10g, as well as for user-specific masses. The DASY5 system allows evaluations that combine measured data and robot positions, such as: • maximum search • extrapolation • boundary correction • peak search for averaged SAR. During a maximum search, global and local maxima searches are automatically performed in 2-D after each Area Scan measurement with at least 6 measurement points. It is based on the evaluation of the local SAR gradient calculated by the Quadratic Shepard's method. The algorithm will find the global maximum and all local maxima within -2 dB of the global maxima for all SAR distributions.

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. Several measurements at different distances are necessary for the extrapolation. Extrapolation routines require at least 10 measurement points in 3-D space. They are used in the Zoom Scan to obtain SAR values between the lowest measurement points and the inner phantom surface. The routine uses the modified Quadratic Shepard's method for extrapolation. For a grid using 7x7x7 measurement points with 5mm resolution amounting to 343 measurement points, the uncertainty of the extrapolation routines is less than 1% for 1g and 10g cubes.

A Z-axis scan measures the total SAR value at the x-and y-position of the maximum SAR value found during the cube 7x7x7 scan. The probe is moved away in z-direction from the bottom of the SAM phantom in 5mm steps.

3.7 Data Storage and Evaluation

Data Storage

The DASY5 software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DA4". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [mW/g], [mW/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

Data Evaluation

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

Probe parameters:	- Sensitivity	Normi, ai0, ai1, ai2
	- Conversion factor	ConvFi
	- Diode compression point	Dcpi
Device parameters:	- Frequency	f
	- Crest factor	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 DASY5 components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

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

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

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 priMayy field data for each channel can be evaluated:

$$E - \text{fieldprobes : } E_i = \sqrt{\frac{V_i}{Norm_i \cdot ConvF}}$$

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

With V_i = compensated signal of channel i ($i = x, y, z$)
 $Norm_i$ = sensor sensitivity of channel i ($i = x, y, z$)
 [mV/(V/m)²] for E-field Probes
 $ConvF$ = 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 priMayy field data are used to calculate the derived field units.

$$SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1'000}$$

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 = equivalent tissue density in g/cm³

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid.



4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if the dielectric parameters are within the tolerances of the specified target values

The uncertainty due to the liquid conductivity and permittivity arises from two different sources. The first source of error is the deviation of the liquid conductivity from its target value (max _ 5 %) and the second source of error arises from the measurement procedures used to assess conductivity. The uncertainty shall be assessed using a rectangular probability For 1 g averaging, the maximum weighting coefficient for SAR is 0,5.

IEEE SCC-34/SC-2 RECOMMENDED TISSUE DIELECTRIC PARAMETERS

The head and body tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 have been incorporated in the following table.

Frequency	ϵ_r	σ 10g S/m
300	45.3	0.87
450	43.5	0.87
750	41.9	0.89
835	41.5	0.90
900	41.5	0.97
1450	40.5	1.20
1800 to 2000	40.0	1.40
2100	39.8	1.49
2450	39.2	1.80
2600	39.0	1.96
3000	38.5	2.40
3500	37.9	2.91
4000	37.4	3.43
4500	36.8	3.94
5000	36.2	4.45
5200	36.0	4.66
5400	35.8	4.86
5600	35.5	5.07
5800	35.3	5.27



The following table gives the recipes for tissue simulating liquid and the theoretical Conductivity/Permittivity.

Head (Reference IEEE1528)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ϵ
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.4	40.0
2450	55.0	0	0	0.1	0	44.9	1.80	39.2
2600	54.9	0	0	0.1	0	45.0	1.96	39.0
Frequency (MHz)	Water (%)	Hexyl Carbitol (%)			Triton X-100 (%)		Conductivity σ (S/m)	Permittivity ϵ
5200	62.52	17.24			17.24		4.66	36.0
5800	62.52	17.24			17.24		5.27	35.3
Body (From instrument manufacturer)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ϵ
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2
900	50.8	48.2	0	0.9	0.1	0	1.05	55.0
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0.1	0	31.3	1.95	52.7
2600	68.2	0	0	0.1	0	31.7	2.16	52.5
Frequency(MHz)	Water	DGBE (%)			Salt (%)		Conductivity σ (S/m)	Permittivity ϵ
5200	78.60	21.40			/		5.30	49.00
5800	78.50	21.40			0.1		6.00	48.20

**LIQUID MEASUREMENT RESULTS**

Tissue Stimulant Measurement for 750MHz					
Head	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr 41.9 (39.81-44.00)	δ[s/m] 0.89(0.846-0.935)		
	704	42.669	0.868	22.3	Dec. 10, 2025
	707.5	42.662	0.871		
	709	42.658	0.872		
	710	42.651	0.872		
	711	42.648	0.876		
	750	42.419	0.888		
Tissue Stimulant Measurement for 835MHz					
Head	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr 41.5 (39.43-43.58)	δ[s/m] 0.90(0.855-0.945)		
	824.2	42.277	0.909	22.0	Dec. 2, 2025
	826.4	42.274	0.912		
	829	42.269	0.919		
	835	42.186	0.919		
	836.4	42.142	0.921		
	836.5	42.141	0.922		
	836.6	42.139	0.923		
	844	42.126	0.926		
	846.6	42.123	0.928		
	848.8	42.12	0.932		
Tissue Stimulant Measurement for 1800MHz					
Head	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr 40.00 (38.00-42.00)	δ[s/m] 1.40(1.33-1.47)		
	1720	41.902	1.356	20.6	Dec. 7, 2025
	1732.5	41.889	1.363		
	1745	41.498	1.371		
	1770	41.453	1.378		
	1800	41.405	1.383		
Tissue Stimulant Measurement for 1900MHz					
Head	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr40.00(38.00-42.00)	δ[s/m] 1.40(1.33-1.47)		



	1850.2	41.324	1.408	21.3	Dec. 8, 2025
	1852.4	41.318	1.415		
	1860	41.296	1.426		
	1880	41.275	1.432		
	1882.5	41.264	1.435		
	1900	41.244	1.445		
	1905	41.234	1.455		
	1907.6	41.228	1.458		
	1909.8	41.225	1.461		
Tissue Stimulant Measurement for 1900MHz					
Head	Fr. (MHz)	Dielectric Parameters (±5%)	Tissue Temp [°C]	Tissue Temp [°C]	Test time
		εr40.00(38.00-42.00)	δ[s/m]1.40(1.33-1.47)		
	1860	41.126	1.389	21.7	Dec. 9, 2025
	1880	41.089	1.423		
	1882.5	41.082	1.430		
	1900	41.057	1.436		
	1905	41.033	1.441		
Tissue Stimulant Measurement for 2450MHz					
Head	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr39.2(37.24-41.16)	δ[s/m]1.80(1.71-1.89)		
	2402	40.672	1.811	20.6	Dec. 16, 2025
	2422	40.649	1.826		
	2437	40.614	1.837		
	2441	40.558	1.839		
	2450	40.442	1.840		
	2452	40.438	1.843		
	2480	40.413	1.866		
Tissue Stimulant Measurement for 2600MHz					
Head	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr 39(37.05-40.95)	δ[s/m] 1.96(1.862-2.058)		
	2510	40.395	1.893	20.6	Dec. 16, 2025
	2535	40.378	1.913		
	2560	40.298	1.935		
	2600	40.214	1.964		
Tissue Stimulant Measurement for 5250MHz					
Head	Fr.	Dielectric Parameters (±5%)		Tissue	Test time



	(MHz)	ϵ_r 35.9(34.2-37.8)	δ [s/m] 4.71(4.427-4.893)	Temp [°C]	Dec. 17, 2025
	5180	35.724	4.571	23.4	
	5200	35.668	4.602		
	5240	35.420	4.653		
Tissue Stimulant Measurement for 5800MHz					
Head	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		ϵ_r 35.3 (33.54-37.07)	δ [s/m] 5.27 (5.007-5.534)		
	5755	34.672	5.289	23.4	Dec. 17, 2025
	5795	34.648	5.318		
	5800	34.330	5.323		

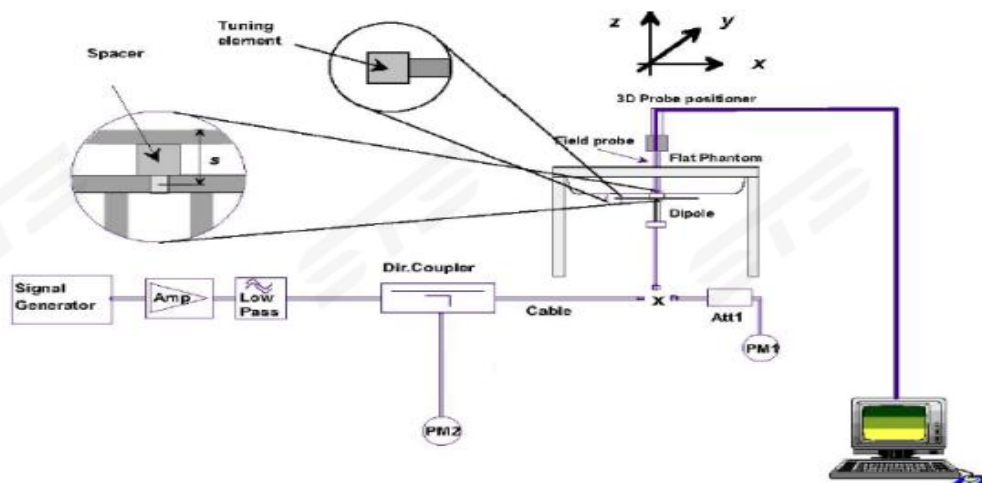
5. SAR System Validation

5.1 Validation System

The purpose of the system check is to verify that the system operates within its specifications at the device test frequency. The system check is a simple check of repeatability to make sure that the system works correctly at the time of the compliance test;

System check results have to be equal or near the values determined during dipole calibration with the relevant liquids and test system ($\pm 10\%$).

System check is performed regularly on all frequency bands where tests are performed with the DASY5 system.



5.2 Validation Result

Date	Frequency (MHz)	Power	SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	Drift (%)	1W Target		Difference percentage		Limited %
						SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	1g	10g	
Dec. 10, 2025	750	251.19 mW	2.110	1.380	-0.05	8.49	5.53	-0.59%	-0.18%	10
		Normalize to 1 Watt	8.44	5.52						
Dec. 02, 2025	835	251.19 mW	2.350	1.530	0.01	9.63	6.15	-2.39%	-0.49%	10
		Normalize to 1 Watt	9.40	6.12						
Dec. 07, 2025	1800	251.19 mW	9.730	5.020	-0.05	37.95	20.49	1.35%	-0.10%	10
		Normalize to 1 Watt	38.92	20.08						
Dec. 08, 2025	1900	251.19 mW	9.840	5.120	-0.03	39.84	20.20	-1.20%	1.39%	10
		Normalize to 1 Watt	39.36	20.48						
Dec. 09, 2025	1900	251.19 mW	10.300	5.230	-0.05	39.84	20.20	3.41%	3.56%	10
		Normalize to 1 Watt	41.20	20.92						
Dec. 16, 2025	2450	251.19 mW	13.200	6.030	0.07	54.70	24.11	-3.47%	0.04%	10
		Normalize to 1 Watt	52.80	24.12						
Dec. 16, 2025	2600	251.19 mW	14.000	6.030	0.05	56.19	24.08	-0.34%	0.17%	10
		Normalize to 1 Watt	56.00	24.12						
Dec. 17, 2025	5200	10 mW	1.62	0.563	-0.07	163.88	57.29	-1.15%	-1.73%	10
		Normalize to 1 Watt	162.00	56.30						
Dec. 17, 2025	5800	10 mW	1.89	0.648	0.03	188.95	63.45	0.03%	2.13%	10
		Normalize to 1 Watt	189.00	64.80						

Note:

(1) We use a CW signal of 24dBm(2450MHz) and 10dBm(5000-6000MHz) for system check, and then all SAR values are normalized to 1W forward power. The result must be within $\pm 10\%$ of target value.



6. SAR Evaluation Procedures

The procedure for assessing the average SAR value consists of the following steps:

The following steps are used for each test position

- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

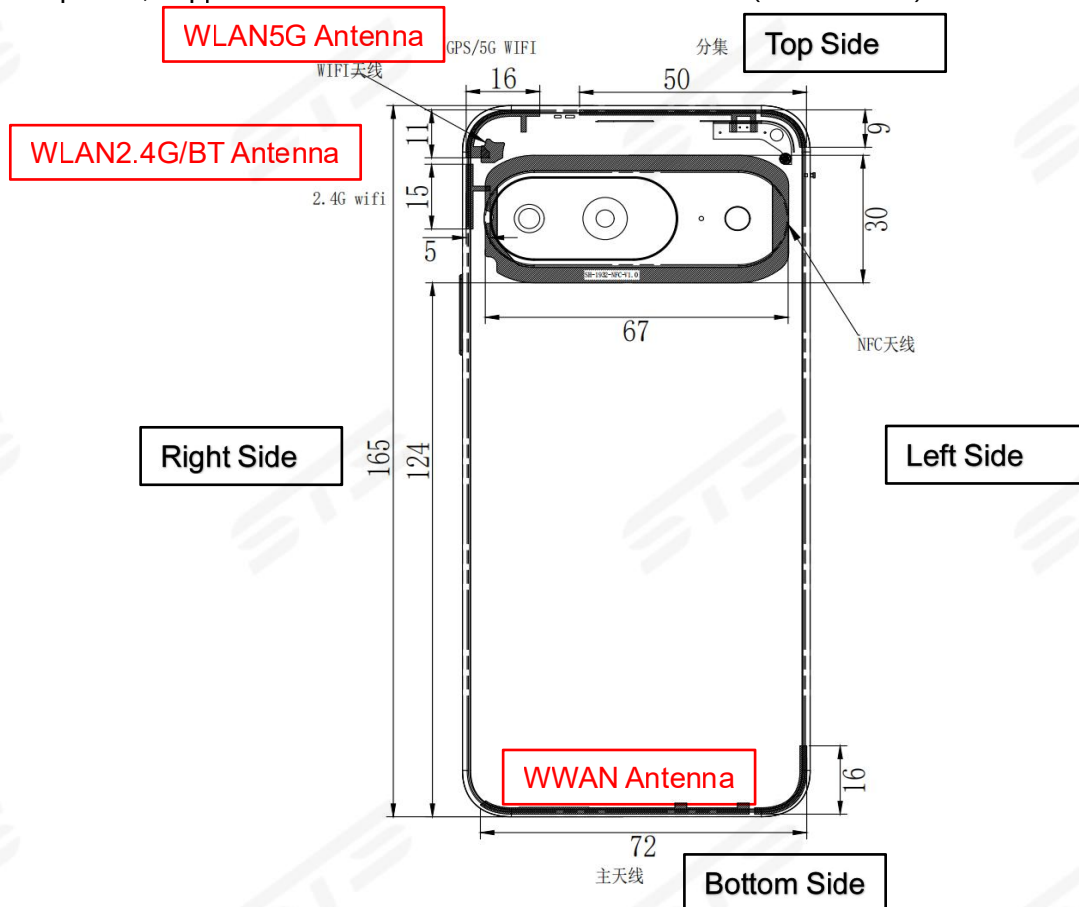
➤ Area Scan& Zoom Scan

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 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01 quoted below.

When the 1-g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

7. EUT Antenna Location Sketch

It is a Smart phone, support GSM/WCDMA/LTE/WLAN/BT mode. (Rear View)



ANT	Front Face	Rear Face	Left Side	Right Side	Top Side	Bottom Side
WWAN ANT (GSM/UMTS/LTE)	Yes	Yes	Yes	Yes	No	Yes
WLAN ANT (WIFI2.4G/BT)	Yes	Yes	No	Yes	Yes	No
WLAN ANT (WIFI5G)	Yes	Yes	No	Yes	Yes	No

Note:

- 1) According to the antenna location shown as above, particular DUT edges were not required to be evaluated for SAR if the antenna-to-edge distance is greater than 50mm.
- 2) The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.

8. EUT Test Position

This EUT was tested in

Head: Right Cheek, Right Titled, Left Cheek, Left Titled;

Body-worn: Front Face, Rear Face, Left Side, Right Side, Top Side, Bottom Side at 5mm;

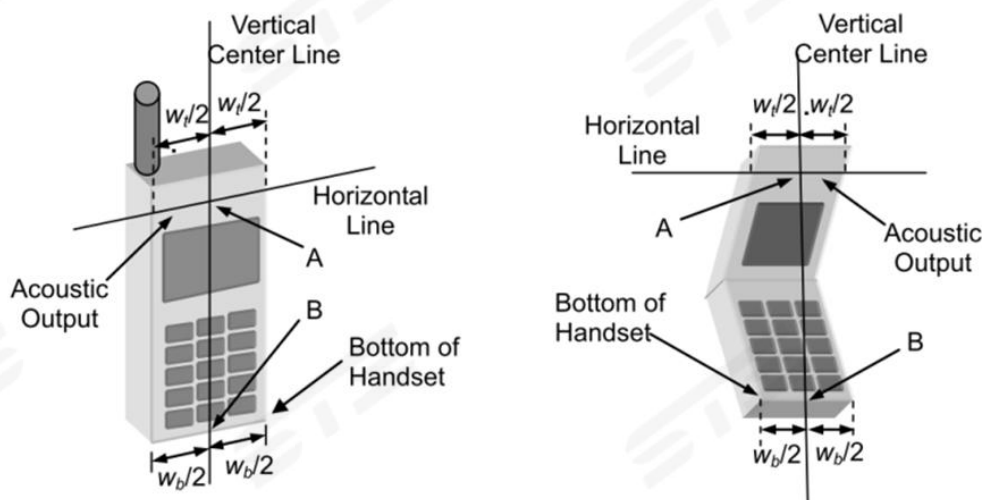
Hotspot: Front Face, Rear Face, Left Side, Right Side, Top Side, Bottom Side at 10mm

8.1 Define Two Imaginary Lines on the Handset

(1) The vertical centerline 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 handset.

(2) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.

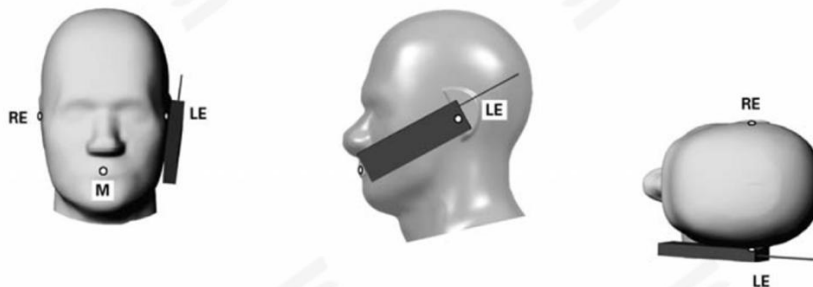
(3) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



Cheek Position

1) 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 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.

2) 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 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.



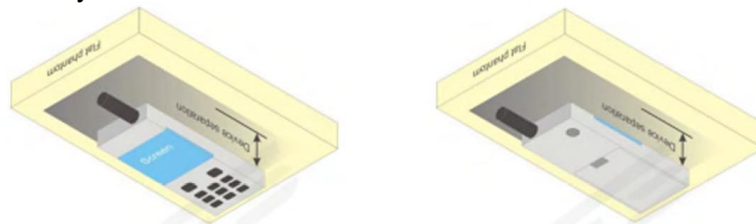
Title Position

- (1) To position the device in the “cheek” position described above.
- (2) While maintaining the device in 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 with the ear is lost.



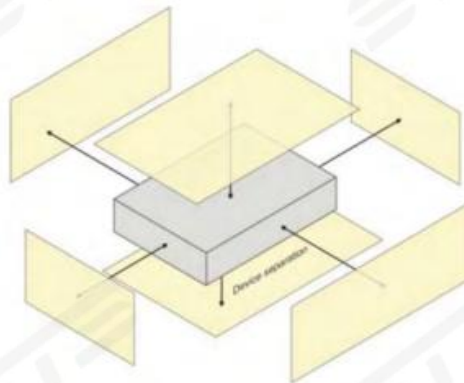
Body-worn Position Conditions:

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB Publication 447498 D04 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. When the same wireless transmission configuration is used for testing body-worn accessory and hotspot mode SAR, respectively, in voice and data mode, SAR results for the most conservative *test separation distance* configuration may be used to support both SAR conditions. When the *reported* SAR for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, the highest *reported* SAR configuration for that wireless mode and frequency band should be repeated for the body-worn accessory with a headset attached to the handset.



8.2 Hotspot mode exposure position condition

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing function, the relevant hand and body exposure condition are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surface and edges with a transmitting antenna located within 25 mm from that surface or edge. When form factor of a handset is smaller than 9cm x 5cm, a test separation distance of 5mm (instead of 10mm) is required for testing hotspot mode. When the separate distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).





9. Uncertainty

9.1 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEEE 1528: 2013. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Measurement uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+-%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration	E.2.1	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	0.71	0.71	0.07	0.07	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.71	0.71	0.42	0.42	∞
Boundary effect	E.2.3	0.80	R	1.73	1.00	1.00	0.46	0.46	∞
Linearity	E.2.4	1.25	R	1.73	1.00	1.00	0.72	0.72	∞
System detection limits	E.2.4	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Modulation response	E.2.5	3.42	R	1.73	1.00	1.00	1.97	1.97	∞
Readout Electronics	E.2.6	0.26	N	1.00	1.00	1.00	0.26	0.26	∞
Response Time	E.2.7	0.17	R	1.73	1.00	1.00	0.10	0.10	∞
Integration Time	E.2.8	1.43	R	1.73	1.00	1.00	0.83	0.83	∞
RF ambient conditions-Noise	E.6.1	3.51	R	1.73	1.00	1.00	2.03	2.03	∞
RF ambient conditions-reflections	E.6.1	3.15	R	1.73	1.00	1.00	1.82	1.82	∞
Probe positioner mechanical tolerance	E.6.2	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.40	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.10	R	1.73	1.00	1.00	1.21	1.21	∞
Test sample Related									
Test sample positioning	E.4.2	3.10	N	1.00	1.00	1.00	3.10	3.10	∞
Device holder uncertainty	E.4.1	3.80	N	1.00	1.00	1.00	3.80	3.80	∞
Output power variation—SAR drift measurement	E.2.9	4.50	R	1.73	1.00	1.00	2.60	2.60	∞
SAR scaling	E.6.5	1.80	R	1.73	1.00	1.00	1.04	1.04	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	3.70	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.90	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	2.40	R	1.73	0.78	0.71	1.08	0.98	M
Liquid permittivity measurement	E.3.3	4.10	N	1.00	0.78	0.71	3.20	2.91	M
Liquid conductivity—temperature uncertainty	E.3.4	2.70	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity—temperature uncertainty	E.3.4	4.80	N	1.00	0.23	0.26	1.10	1.25	∞
Combined Standard Uncertainty			RSS				10.08	9.59	
Expanded Uncertainty (95% Confidence interval)			K=2				19.58	19.18	



System Validation uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+-%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration	E.2.1	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	1.00	1.00	0.10	0.10	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.00	0.00	0.00	0.00	∞
Boundary effect	E.2.3	0.80	R	1.73	1.00	1.00	0.46	0.46	∞
Linearity	E.2.4	1.25	R	1.73	1.00	1.00	0.72	0.72	∞
System detection limits	E.2.4	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Modulation response	E.2.5	3.42	R	1.73	0.00	0.00	0.00	0.00	∞
Readout Electronics	E.2.6	0.26	N	1.00	1.00	1.00	0.26	0.26	∞
Response Time	E.2.7	0.17	R	1.73	0.00	0.00	0.00	0.00	∞
Integration Time	E.2.8	1.43	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3.51	R	1.73	1.00	1.00	2.03	2.03	∞
RF ambient conditions-reflections	E.6.1	3.15	R	1.73	1.00	1.00	1.82	1.82	∞
Probe positioner mechanical tolerance	E.6.2	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.40	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.10	R	1.73	1.00	1.00	1.21	1.21	∞
System validation source									
Deviation of experimental dipole from numerical dipole	E.6.4	4.80	N	1.00	1.00	1.00	4.80	4.80	∞
Input power and SAR drift measurement	8,6.6.4	5.10	R	1.73	1.00	1.00	2.94	2.94	∞
Dipole axis to liquid distance	8,E.6.6	2.40	R	1.73	1.00	1.00	1.39	1.39	∞
Phantom and set-up									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	3.70	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.90	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity (temperature uncertainty)	E.3.3	2.40	R	1.73	0.78	0.71	1.08	0.98	∞
Liquid conductivity (measured)	E.3.3	4.10	N	1.00	0.78	0.71	3.20	2.91	M
Liquid permittivity (temperature uncertainty)	E.3.4	2.70	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity (measured)	E.3.4	4.80	N	1.00	0.23	0.26	1.10	1.25	M
Combined Standard Uncertainty			RSS				9.72	9.52	
Expanded Uncertainty (95% Confidence interval)			K=2				19.44	19.03	



° System Check uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+ - %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration drift	E.2.1.3	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	0.00	0.00	0.00	0.00	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.00	0.00	0.00	0.00	∞
Boundary effect	E.2.3	0.8	R	1.73	0.00	0.00	0.00	0.00	∞
Linearity	E.2.4	1.25	R	1.73	0.00	0.00	0.00	0.00	∞
System detection limits	E.2.4	1.20	R	1.73	0.00	0.00	0.00	0.00	∞
Modulation response	E.2.5	3.42	R	1.73	0.00	0.00	0.00	0.00	∞
Readout Electronics	E.2.6	0.26	N	1.00	0.00	0.00	0.00	0.00	∞
Response Time	E.2.7	0.17	R	1.73	0.00	0.00	0.00	0.00	∞
Integration Time	E.2.8	1.43	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3.51	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions-reflections	E.6.1	3.15	R	1.73	0.00	0.00	0.00	0.00	∞
Probe positioner mechanical tolerance	E.6.2	1.2	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.4	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	3.9	R	1.73	0.00	0.00	0.00	0.00	∞
System check source (dipole)									
Deviation of experimental dipoles	E.6.4	4.8	N	1.00	1.00	1.00	4.80	4.80	∞
Input power and SAR drift measurement	8,6.6.4	5.1	R	1.73	1.00	1.00	2.94	2.94	∞
Dipole axis to liquid distance	8,E.6.6	2.4	R	1.73	1.00	1.00	1.39	1.39	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	3.7	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	2.4	R	1.73	0.78	0.71	1.08	0.98	∞
Liquid permittivity measurement	E.3.3	4.1	N	1.00	0.78	0.71	3.20	2.91	M
Liquid conductivity—temperature uncertainty	E.3.4	2.7	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity—temperature uncertainty	E.3.4	4.8	N	1.00	0.23	0.26	1.10	1.25	M
Combined Standard Uncertainty			RSS				5.56	5.20	
Expanded Uncertainty (95% Confidence interval)			K=2				11.12	10.41	



10. Conducted Power Measurement

10.1 Test Result

GSM

GSM850		Max Burst Average Power (dBm)				Max Frame Average Power (dBm)			
		Max. Tune-up	Channel/Frequency(MHz)			Max. Tune-up	Channel/Frequency(MHz)		
			128/ 824.2	190/ 836.6	251/ 848.8		128/ 824.2	190/ 836.6	251/ 848.8
GSM (CS)		32.00	31.49	31.71	31.78	22.81	22.30	22.52	22.59
GPRS/EDGE (GMSK)	1 Tx Slot	32.00	31.49	31.71	31.78	22.81	22.30	22.52	22.59
	2 Tx Slot	31.00	30.21	30.44	30.57	24.87	24.08	24.31	24.44
	3 Tx Slot	29.00	27.84	28.07	28.21	24.58	23.42	23.65	23.79
	4 Tx Slot	27.00	26.51	26.83	26.73	23.82	23.33	23.65	23.55
EDGE (8PSK)	1 Tx Slot	26.00	25.81	25.48	25.81	16.81	16.62	16.29	16.62
	2 Tx Slot	25.00	24.78	24.38	24.66	18.87	18.65	18.25	18.53
	3 Tx Slot	23.00	22.10	21.92	22.48	18.58	17.68	17.50	18.06
	4 Tx Slot	22.00	20.75	20.98	21.06	18.82	17.57	17.80	17.88
GSM1900		Max Burst Average Power (dBm)				Max Frame Average Power (dBm)			
		Max. Tune-up	Channel/Frequency(MHz)			Max. Tune-up	Channel/Frequency(MHz)		
			512/ 1850.2	661/ 1880	810/ 1909.8		512/ 1850.2	661/ 1880	810/ 1909.8
GSM (CS)		27.50	27.27	27.41	27.08	18.31	18.08	18.22	17.89
GPRS/EDGE (GMSK)	1 Tx Slot	27.50	27.27	27.41	27.08	18.31	18.08	18.22	17.89
	2 Tx Slot	26.50	25.97	26.15	25.66	20.37	19.84	20.02	19.53
	3 Tx Slot	24.50	23.58	23.66	23.24	20.08	19.16	19.24	18.82
	4 Tx Slot	22.50	22.21	22.49	21.88	19.32	19.03	19.31	18.70
EDGE (8PSK)	1 Tx Slot	24.50	23.73	23.89	23.47	15.31	14.54	14.70	14.28
	2 Tx Slot	23.50	22.76	22.66	22.90	17.37	16.63	16.53	16.77
	3 Tx Slot	21.50	20.91	20.30	20.06	17.08	16.49	15.88	15.64
	4 Tx Slot	20.50	19.36	19.06	19.93	17.32	16.18	15.88	16.75

Note: The tested channel results are marks in bold.



WCDMA

Band	UMTS B2 Average Conducted Power(dBm)			
Tx Channel	Max. Tune-up	9262	9400	9538
Rx Channel		9662	9800	9938
Frequency(MHz)		1852.4	1880	1907.6
AMR Voice	21.00	20.78	20.81	20.67
RMC 12.2K	21.00	20.78	20.81	20.67
HSDPA Subtest-1	20.00	19.80	19.82	19.76
HSDPA Subtest-2	20.00	19.57	19.66	19.60
HSDPA Subtest-3	20.00	19.13	19.13	19.10
HSDPA Subtest-4	20.00	19.16	19.14	19.16
HSUPA Subtest-1	20.00	19.13	19.12	18.99
HSUPA Subtest-2	20.00	19.71	19.75	19.71
HSUPA Subtest-3	20.00	18.68	18.73	18.68
HSUPA Subtest-4	20.00	19.77	19.81	19.75
HSUPA Subtest-5	20.00	18.66	18.70	18.69
Band	UMTS B5 Average Conducted Power(dBm)			
Tx Channel	Max. Tune-up	4132	4182	4233
Rx Channel		4357	4407	4458
Frequency(MHz)		826.4	836.4	846.6
AMR Voice	23.00	22.69	22.37	22.23
RMC 12.2K	23.00	22.69	22.37	22.23
HSDPA Subtest-1	22.00	21.64	21.38	21.25
HSDPA Subtest-2	22.00	21.45	21.17	21.06
HSDPA Subtest-3	22.00	20.96	20.70	20.57
HSDPA Subtest-4	22.00	20.98	20.65	20.59
HSUPA Subtest-1	22.00	20.83	20.50	20.45
HSUPA Subtest-2	22.00	21.57	21.30	21.19
HSUPA Subtest-3	22.00	20.49	20.24	20.12
HSUPA Subtest-4	22.00	21.61	21.34	21.22
HSUPA Subtest-5	22.00	20.48	20.22	20.13



According to 3GPP 25.101 sub-clause 6.2.2, the maximum output power is allowed to be reduced by following the table.

Table 6.1A: UE maximum output power with HS-DPCCH and E-DCH

UE Transmit Channel Configuration	CM(db)	MPR(db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	$0 \leq CM \leq 3.5$	$MAX(CM-1,0)$
Note: 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.		

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done .However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensation for the power back-off by increasing the gain of TX_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.

**Bluetooth&BLE**

BT	Max EIRP (dBm)			
	Max. Tune up	CH0	CH39	CH78
		2402MHz	2441MHz	2480MHz
DH5	3.00	1.43	2.42	2.55
2DH5	1.00	0.90	-0.36	-0.98
3DH5	1.00	0.23	0.02	-0.13
BT	Max EIRP (dBm)			
	Max. Tune up	CH0	CH19	CH39
		2402MHz	2440MHz	2480MHz
BLE(1M)	2.00	-0.57	1.22	1.79
BLE(2M)	2.00	-0.30	1.36	1.01

Note: The tested channel results are marks in bold.

NFC

NFC	Max EIRP (mW)
	0.00000402

Note: NFC Power<1mW, The SAR value is close to 0, don't require SAR test.

2.4G WLAN

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
2.4G WIFI_1TX_ Ant WIFI	802.11b	1	2412	1	17.00	16.18
		6	2437		17.00	16.79
		11	2462		17.00	16.05
	802.11g	1	2412	6	19.00	18.29
		6	2437		19.00	18.38
		11	2462		19.00	17.26
	802.11n HT20	1	2412	HT0	20.00	19.67
		6	2437		20.00	19.62
		11	2462		20.00	18.60
	802.11n HT40	3	2422	HT0	22.50	21.75
		6	2437		22.50	22.00
		9	2452		22.50	21.91

Note: The tested channel results are marks in bold.

**WLAN (5.2Gband)**

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.2G WIFI_1TX_ Ant WIFI	802.11a	36	5180	6	12.00	11.75
		40	5200		12.00	11.28
		48	5240		12.00	11.35
	802.11n HT20	36	5180	MCS0	12.00	11.68
		40	5200		12.00	10.96
		48	5240		12.00	10.84
	802.11n HT40	38	5190	MCS0	12.00	11.34
		46	5230		12.00	11.35
	802.11ac VHT20	36	5180	MCS0	12.00	11.60
		40	5200		12.00	11.03
		48	5240		12.00	10.68
	802.11ac VHT40	38	5190	MCS0	12.00	11.44
		46	5230		12.00	11.46
	802.11ac VHT80	42	5210	MCS0	12.00	10.91

Note: The tested channel results are marks in bold.

WLAN (5.8Gband)

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.8G WIFI_1TX_ Ant WIFI	802.11a	149	5745	6	13.00	12.23
		157	5785		13.00	12.66
		165	5825		13.00	11.48
	802.11n HT20	149	5745	MCS0	13.00	12.17
		157	5785		13.00	12.56
		165	5825		13.00	11.20
	802.11n HT40	151	5755	MCS0	13.00	12.11
		159	5795		13.00	12.26
	802.11ac VHT20	149	5745	MCS0	13.50	12.87
		157	5785		13.50	13.21
		165	5825		13.50	12.45
	802.11ac VHT40	151	5755	MCS0	13.50	13.11
		159	5795		13.50	13.27
	802.11ac VHT80	155	5775	MCS0	13.00	12.37

Note: The tested channel results are marks in bold.



LTE Conducted Power

General Note:

1. Anritsu CMW500 base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05, 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 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.
6. Per KDB 941225 D05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05, smaller bandwidth SAR testing is not required.



LTE B2/BW=1.4M		Average Conducted Power(dBm)				LTE B2/BW=3M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)		
			18607/1850.7	18900/1880	19193/1909.3				18615/1851.5	18900/1880	19185/1908.5
QPSK	1/0	21.00	20.32	20.12	20.60	QPSK	1/0	21.00	20.25	20.19	20.70
	1/2	21.00	20.17	20.27	20.58		1/7	21.00	20.14	20.29	20.66
	1/5	21.00	20.20	20.13	20.59		1/14	21.00	20.19	20.27	20.60
	3/0	21.00	20.32	20.38	20.85		8/0	20.00	19.39	19.19	19.67
	3/1	21.00	20.39	20.32	20.70		8/3	20.00	19.33	19.21	19.67
	3/3	21.00	20.35	20.35	20.71		8/7	20.00	19.37	19.33	19.86
	6/0	20.00	19.27	19.25	19.71		15/0	20.00	19.30	19.24	19.73
16QAM	1/0	20.00	19.51	19.97	18.75	16QAM	1/0	20.00	18.94	19.49	19.73
	1/2	20.00	19.65	19.92	18.69		1/7	20.00	18.89	19.25	19.93
	1/5	20.00	19.51	19.92	18.74		1/14	20.00	18.82	19.28	19.85
	3/0	20.00	19.43	19.24	19.78		8/0	19.00	18.76	18.55	18.76
	3/1	20.00	19.42	19.19	19.82		8/3	19.00	18.71	18.49	18.75
	3/3	20.00	19.44	19.21	19.91		8/7	19.00	18.77	18.63	18.91
	6/0	19.00	18.41	18.39	18.86		15/0	19.00	18.29	18.38	18.90
LTE B2/BW=5M		Average Conducted Power(dBm)				LTE B2/BW=10M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)		
			18625/1852.5	18900/1880	19175/1907.5				18650/1855	18900/1880	19150/1905
QPSK	1/0	21.00	20.36	20.33	20.35	QPSK	1/0	21.00	20.14	20.20	20.35
	1/12	21.00	20.40	20.37	20.46		1/24	21.00	20.12	20.20	20.52
	1/24	21.00	20.40	20.33	20.46		1/49	21.00	20.16	20.26	20.49
	12/0	20.00	19.38	19.31	19.61		25/0	20.00	19.30	19.29	19.58
	12/6	20.00	19.23	19.10	19.71		25/12	20.00	19.32	19.29	19.46
	12/13	20.00	19.42	19.30	19.71		25/25	20.00	19.37	19.22	19.46
	25/0	20.00	19.25	19.23	19.60		50/0	20.00	19.27	19.35	19.56
16QAM	1/0	20.00	18.84	18.04	19.50	16QAM	1/0	20.00	18.32	19.55	19.76
	1/12	20.00	19.36	18.32	19.86		1/24	20.00	18.84	19.75	19.91
	1/24	20.00	18.77	18.13	19.85		1/49	20.00	18.23	19.56	19.93
	12/0	19.00	18.35	18.29	18.77		25/0	19.00	18.57	18.35	18.67
	12/6	19.00	18.30	18.36	18.63		25/12	19.00	18.48	18.37	18.68
	12/13	19.00	18.45	18.32	18.64		25/25	19.00	18.45	18.34	18.69
	25/0	19.00	18.22	18.43	18.60		50/0	19.00	18.36	18.33	18.63



LTE B2/BW=15M		Average Conducted Power(dBm)				LTE B2/BW=20M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)		
			18675/1857.5	18900/1880	19125/1902.5				18700/1860	18900/1880	19100/1900
QPSK	1/0	21.00	19.95	20.17	20.25	QPSK	1/0	21.00	20.72	20.86	20.63
	1/37	21.00	19.81	20.22	20.38		1/50	21.00	20.36	20.28	20.04
	1/74	21.00	20.33	20.27	20.83		1/99	21.00	20.47	20.65	20.56
	36/0	20.00	19.25	19.29	19.36		50/0	20.00	19.18	19.38	19.30
	36/19	20.00	19.20	19.27	19.37		50/25	20.00	19.21	19.24	19.33
	36/39	20.00	19.35	19.27	19.36		50/50	20.00	19.24	19.23	19.37
	75/0	20.00	19.37	19.39	19.48		100/0	20.00	19.28	19.29	19.33
16QAM	1/0	20.00	19.12	19.35	19.81	16QAM	1/0	20.00	19.86	19.70	19.53
	1/37	20.00	19.30	19.30	19.93		1/50	20.00	19.74	19.62	19.62
	1/74	20.00	19.18	19.54	19.91		1/99	20.00	19.79	19.80	19.86
	36/0	19.00	18.29	18.51	18.47		50/0	19.00	18.29	18.43	18.54
	36/19	19.00	18.39	18.47	18.51		50/25	19.00	18.32	18.36	18.45
	36/39	19.00	18.41	18.46	18.29		50/50	19.00	18.12	18.40	18.49
	75/0	19.00	18.41	18.39	18.77		100/0	19.00	18.37	18.35	18.30

Note: The tested channel results are marks in bold.



LTE B4/BW=1.4M		Average Conducted Power(dBm)				LTE B4/BW=3M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)		
			19957/1710.7	20175/1732.5	20393/1754.3				19965/1711.5	20175/1732.5	20385/1753.5
QPSK	1/0	21.50	20.68	20.48	20.88	QPSK	1/0	21.50	20.72	20.70	20.56
	1/2	21.50	20.66	20.84	20.91		1/7	21.50	20.75	20.67	20.41
	1/5	21.50	20.69	20.81	20.83		1/14	21.50	20.47	20.70	20.55
	3/0	21.50	20.83	20.68	20.62		8/0	20.50	20.31	19.81	20.04
	3/1	21.50	20.97	20.76	20.80		8/3	20.50	20.40	20.25	19.94
	3/3	21.50	20.80	20.78	20.74		8/7	20.50	19.99	19.94	19.94
	6/0	20.50	20.19	19.89	20.06		15/0	20.50	20.19	20.31	19.99
16QAM	1/0	20.50	20.12	20.31	20.38	16QAM	1/0	20.50	20.15	20.35	20.36
	1/2	20.50	20.32	20.28	20.29		1/7	20.50	19.73	20.28	20.12
	1/5	20.50	20.28	20.38	20.36		1/14	20.50	20.10	20.40	20.17
	3/0	20.50	20.38	19.83	19.75		8/0	19.50	19.31	19.39	19.21
	3/1	20.50	20.38	20.23	19.73		8/3	19.50	19.26	19.16	19.18
	3/3	20.50	20.20	19.86	19.88		8/7	19.50	19.14	19.41	19.22
	6/0	19.50	19.47	19.40	19.30		15/0	19.50	19.21	19.10	19.33
LTE B4/BW=5M		Average Conducted Power(dBm)				LTE B4/BW=10M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)		
			19975/1712.5	20175/1732.5	20375/1752.5				20000/1715	20175/1732.5	20350/1750
QPSK	1/0	21.50	20.82	20.84	20.98	QPSK	1/0	21.50	20.72	20.71	20.77
	1/12	21.50	20.74	20.78	20.74		1/24	21.50	20.59	20.80	20.85
	1/24	21.50	20.74	20.88	20.90		1/49	21.50	20.39	20.55	20.85
	12/0	20.50	20.19	19.85	20.08		25/0	20.50	19.88	20.01	19.94
	12/6	20.50	20.04	20.09	20.05		25/12	20.50	20.29	20.21	19.82
	12/13	20.50	20.01	19.95	20.02		25/25	20.50	19.89	19.98	19.95
	25/0	20.50	20.09	20.32	19.91		50/0	20.50	20.13	20.02	20.07
16QAM	1/0	20.50	19.63	19.53	20.31	16QAM	1/0	20.50	19.77	19.69	20.34
	1/12	20.50	20.18	19.50	19.52		1/24	20.50	19.61	19.69	20.43
	1/24	20.50	20.39	19.73	20.46		1/49	20.50	19.48	19.75	20.30
	12/0	19.50	19.05	19.27	19.08		25/0	19.50	19.39	18.94	19.01
	12/6	19.50	19.17	19.20	19.10		25/12	19.50	19.44	19.08	19.21
	12/13	19.50	19.28	19.07	18.98		25/25	19.50	19.42	19.12	19.14
	25/0	19.50	19.20	19.19	19.09		50/0	19.50	19.02	19.09	19.02



LTE B4/BW=15M		Average Conducted Power(dBm)				LTE B4/BW=20M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20025/1717.5	20175/1732.5	20325/1747.5				20050/1720	20175/1732.5	20300/1745
QPSK	1/0	21.50	20.89	20.76	20.71	QPSK	1/0	21.50	20.81	21.07	20.96
	1/37	21.50	20.77	20.68	20.76		1/50	21.50	20.67	20.63	20.89
	1/74	21.50	20.56	20.58	20.74		1/99	21.50	20.44	20.84	20.69
	36/0	20.50	20.26	19.98	19.85		50/0	20.50	20.38	20.17	20.05
	36/19	20.50	19.84	19.85	19.99		50/25	20.50	20.05	20.23	19.78
	36/39	20.50	20.03	20.16	20.12		50/50	20.50	19.75	20.43	19.89
	75/0	20.50	20.20	20.09	19.98		100/0	20.50	20.03	19.99	20.04
16QAM	1/0	20.50	20.31	19.99	19.76	16QAM	1/0	20.50	20.38	20.46	20.26
	1/37	20.50	20.22	20.22	20.46		1/50	20.50	20.41	20.34	20.35
	1/74	20.50	20.19	20.15	20.19		1/99	20.50	20.43	20.12	20.46
	36/0	19.50	19.18	19.12	19.07		50/0	19.50	19.19	19.29	19.17
	36/19	19.50	19.20	19.16	19.06		50/25	19.50	19.20	19.02	18.98
	36/39	19.50	19.13	19.06	19.07		50/50	19.50	19.09	19.14	18.99
	75/0	19.50	19.25	19.05	19.09		100/0	19.50	19.29	19.14	19.02

Note: The tested channel results are marks in bold.



LTE B5/BW=1.4M		Average Conducted Power(dBm)				LTE B5/BW=3M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20407/824.7	20525/836.5	20643/848.3				20415/825.5	20525/836.5	20635/847.5
QPSK	1/0	23.00	21.87	22.15	22.28	QPSK	1/0	23.00	21.90	22.26	22.21
	1/2	23.00	21.92	22.16	22.33		1/7	23.00	21.94	22.21	22.34
	1/5	23.00	21.92	22.11	22.33		1/14	23.00	22.01	22.22	22.23
	3/0	23.00	22.11	22.13	22.33		8/0	22.00	21.11	21.32	21.32
	3/1	23.00	21.94	22.13	22.34		8/3	22.00	21.09	21.35	21.33
	3/3	23.00	22.07	22.13	22.33		8/7	22.00	21.21	21.49	21.39
	6/0	22.00	20.88	21.01	21.41		15/0	22.00	21.12	21.34	21.26
16QAM	1/0	22.00	20.74	21.75	21.88	16QAM	1/0	22.00	20.56	21.78	21.94
	1/2	22.00	21.23	21.46	21.84		1/7	22.00	20.59	21.81	21.81
	1/5	22.00	20.54	21.91	21.95		1/14	22.00	20.67	21.74	21.78
	3/0	22.00	21.12	20.82	21.40		8/0	21.00	20.15	20.42	20.45
	3/1	22.00	20.73	21.40	21.28		8/3	21.00	20.16	20.44	20.45
	3/3	22.00	21.12	20.83	21.28		8/7	21.00	20.28	20.52	20.53
	6/0	21.00	20.07	20.37	20.47		15/0	21.00	19.79	20.23	20.63
LTE B5/BW=5M		Average Conducted Power(dBm)				LTE B5/BW=10M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20425/826.5	20525/836.5	20625/846.5				20450/829	20525/836.5	20600/844
QPSK	1/0	23.00	22.20	22.17	22.30	QPSK	1/0	23.00	22.33	22.56	22.49
	1/12	23.00	22.20	22.26	22.37		1/24	23.00	21.96	22.20	22.41
	1/24	23.00	22.28	22.27	22.43		1/49	23.00	21.93	22.11	21.96
	12/0	22.00	21.06	20.93	21.42		25/0	22.00	20.98	21.45	21.26
	12/6	22.00	21.05	21.10	21.43		25/12	22.00	20.96	21.33	21.29
	12/13	22.00	21.04	21.11	21.44		25/25	22.00	20.94	21.10	21.29
	25/0	22.00	21.29	21.13	21.31		50/0	22.00	20.96	21.06	21.20
16QAM	1/0	22.00	20.96	20.43	21.82	16QAM	1/0	22.00	20.28	21.57	21.67
	1/12	22.00	21.07	20.57	21.96		1/24	22.00	21.01	21.71	21.70
	1/24	22.00	21.07	20.65	21.81		1/49	22.00	21.15	21.90	21.78
	12/0	21.00	19.79	20.24	20.38		25/0	21.00	20.06	20.11	20.44
	12/6	21.00	19.81	20.11	20.40		25/12	21.00	20.25	20.13	20.47
	12/13	21.00	19.81	20.09	20.41		25/25	21.00	20.34	20.15	20.30
	25/0	21.00	19.91	20.27	20.30		50/0	21.00	20.07	20.26	20.35

Note: The tested channel results are marks in bold.



LTE B7/BW=5M		Average Conducted Power(dBm)				LTE B7/BW=10M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20775/2502.5	21100/2535	21425/2567.5				20800/2505	21100/2535	21400/2565
QPSK	1/0	22.00	21.51	21.48	21.61	QPSK	1/0	22.00	21.56	21.43	21.38
	1/12	22.00	21.51	21.57	21.68		1/24	22.00	21.44	21.35	21.43
	1/24	22.00	21.59	21.58	21.74		1/49	22.00	21.23	21.25	21.41
	12/0	21.00	20.42	20.29	20.78		25/0	21.00	20.62	20.34	20.21
	12/6	21.00	20.41	20.46	20.79		25/12	21.00	20.20	20.21	20.35
	12/13	21.00	20.40	20.47	20.80		25/25	21.00	20.39	20.52	20.48
	25/0	21.00	20.65	20.49	20.67		50/0	21.00	20.56	20.45	20.34
16QAM	1/0	21.00	20.32	19.79	20.88	16QAM	1/0	21.00	20.67	20.35	20.12
	1/12	21.00	20.43	19.93	20.56		1/24	21.00	20.58	20.58	20.82
	1/24	21.00	20.43	20.01	20.87		1/49	21.00	20.55	20.51	20.55
	12/0	20.00	19.15	19.60	19.74		25/0	20.00	19.54	19.48	19.43
	12/6	20.00	19.17	19.47	19.76		25/12	20.00	19.56	19.52	19.42
	12/13	20.00	19.17	19.45	19.77		25/25	20.00	19.49	19.42	19.43
	25/0	20.00	19.27	19.63	19.66		50/0	20.00	19.61	19.41	19.45
LTE B7/BW=15M		Average Conducted Power(dBm)				LTE B7/BW=20M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20825/2507.5	21100/2535	21375/2562.5				20850/2510	21100/2535	21350/2560
QPSK	1/0	22.00	21.21	21.57	21.52	QPSK	1/0	22.00	21.88	21.97	21.76
	1/37	22.00	20.25	20.52	21.65		1/50	22.00	21.86	21.89	21.41
	1/74	22.00	20.32	20.53	21.54		1/99	22.00	21.72	21.75	21.53
	36/0	21.00	19.78	19.99	20.99		50/0	21.00	20.34	20.68	20.26
	36/19	21.00	19.76	20.02	20.70		50/25	21.00	20.32	20.69	20.65
	36/39	21.00	19.57	19.85	20.75		50/50	21.00	20.30	20.46	20.65
	75/0	21.00	19.48	19.70	20.62		100/0	21.00	20.32	20.42	20.56
16QAM	1/0	21.00	19.74	20.14	20.71	16QAM	1/0	21.00	19.64	20.63	20.73
	1/37	21.00	19.95	20.87	20.87		1/50	21.00	20.37	20.77	20.76
	1/74	21.00	20.03	20.80	20.84		1/99	21.00	20.51	20.96	20.84
	36/0	20.00	19.51	19.78	19.81		50/0	20.00	19.42	19.47	19.80
	36/19	20.00	19.52	19.80	19.81		50/25	20.00	19.61	19.49	19.83
	36/39	20.00	19.64	19.88	19.89		50/50	20.00	19.70	19.51	19.66
	75/0	20.00	19.15	19.59	19.99		100/0	20.00	19.43	19.62	19.71

Note: The tested channel results are marks in bold.



LTE B12/BW=1.4M		Average Conducted Power(dBm)				LTE B12/BW=3M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)		
			23017/699.7	23095/707.5	23173/715.3				23025/700.5	23095/707.5	23165/714.5
QPSK	1/0	20.00	19.43	19.43	19.46	QPSK	1/0	20.00	19.37	19.43	19.46
	1/2	20.00	19.48	19.59	19.60		1/7	20.00	19.41	19.51	19.58
	1/5	20.00	19.37	19.49	19.56		1/14	20.00	19.40	19.48	19.58
	3/0	20.00	19.45	19.44	19.50		8/0	20.00	19.45	19.45	19.53
	3/1	20.00	19.49	19.55	19.62		8/3	20.00	19.49	19.47	19.63
	3/3	20.00	19.44	19.54	19.59		8/7	20.00	19.43	19.56	19.63
	6/0	20.00	19.43	19.44	19.62		15/0	20.00	19.44	19.46	19.64
16QAM	1/0	20.00	19.52	19.54	19.65	16QAM	1/0	20.00	19.39	19.47	19.56
	1/2	20.00	19.26	19.42	19.46		1/7	20.00	19.33	19.51	19.59
	1/5	20.00	19.22	19.30	19.43		1/14	20.00	19.36	19.56	19.64
	3/0	20.00	19.43	19.52	19.54		8/0	20.00	19.42	19.46	19.49
	3/1	20.00	19.47	19.61	19.65		8/3	20.00	19.47	19.49	19.60
	3/3	20.00	19.44	19.61	19.63		8/7	20.00	19.45	19.56	19.60
	6/0	20.00	19.45	19.42	19.58		15/0	20.00	19.45	19.44	19.60
LTE B12/BW=5M		Average Conducted Power(dBm)				LTE B12/BW=10M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)		
			23035/701.5	23095/707.5	23155/713.5				23060/704	23095/707.5	23130/711
QPSK	1/0	20.00	19.31	19.44	19.47	QPSK	1/0	20.00	19.76	19.99	19.85
	1/12	20.00	19.38	19.45	19.48		1/24	20.00	19.52	19.64	19.74
	1/24	20.00	19.31	19.55	19.57		1/49	20.00	19.67	19.76	19.79
	12/0	20.00	19.40	19.42	19.46		25/0	20.00	19.41	19.69	19.46
	12/6	20.00	19.42	19.40	19.55		25/12	20.00	19.44	19.44	19.58
	12/13	20.00	19.39	19.51	19.57		25/25	20.00	19.43	19.53	19.58
	25/0	20.00	19.42	19.41	19.54		50/0	20.00	19.44	19.42	19.57
16QAM	1/0	20.00	19.28	19.41	19.44	16QAM	1/0	20.00	19.34	19.45	19.72
	1/12	20.00	19.19	19.55	19.49		1/24	20.00	19.51	19.29	19.61
	1/24	20.00	19.19	19.52	19.61		1/49	20.00	19.27	19.59	19.72
	12/0	20.00	19.40	19.45	19.49		25/0	20.00	19.40	19.44	19.48
	12/6	20.00	19.41	19.43	19.56		25/12	20.00	19.44	19.44	19.58
	12/13	20.00	19.43	19.51	19.60		25/25	20.00	19.41	19.52	19.60
	25/0	20.00	19.43	19.41	19.57		50/0	20.00	19.44	19.44	19.58

Note: The tested channel results are marks in bold.



LTEB17/BW=5M		Average Conducted Power(dBm)				LTE B17/BW=10M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)		
			23755/706.5	23790/710	23825/713.5				23780/709	23790/710	23800/711
QPSK	1/0	22.50	22.23	22.03	22.16	QPSK	1/0	22.50	22.19	22.33	22.26
	1/12	22.50	21.81	21.94	22.29		1/24	22.50	21.90	21.92	22.31
	1/24	22.50	21.77	21.77	22.27		1/49	22.50	21.87	21.86	22.33
	12/0	21.50	21.46	21.38	21.30		25/0	21.50	20.99	20.96	21.30
	12/6	21.50	21.46	21.38	21.32		25/12	21.50	20.96	20.94	21.32
	12/13	21.50	21.41	21.35	21.27		25/25	21.50	20.96	21.00	21.33
	25/0	21.50	20.91	20.99	21.32		50/0	21.50	20.94	20.97	21.32
16QAM	1/0	21.50	21.17	21.14	20.87	16QAM	1/0	21.50	20.46	21.29	21.28
	1/12	21.50	21.24	21.12	21.03		1/24	21.50	20.57	21.30	21.32
	1/24	21.50	21.16	20.98	21.00		1/49	21.50	20.59	21.22	21.29
	12/0	20.50	20.35	20.19	20.28		25/0	20.50	20.31	20.16	20.43
	12/6	20.50	20.45	20.49	20.49		25/12	20.50	20.33	20.18	20.31
	12/13	20.50	20.38	20.49	20.48		25/25	20.50	20.27	20.28	20.28
	25/0	20.50	20.21	20.07	20.33		50/0	20.50	20.03	20.08	20.29

Note: The tested channel results are marks in bold.



LTE B25/BW=1.4M		Average Conducted Power(dBm)				LTE B25/BW=3M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)		
			26047/1850.7	26365/1882.5	26683/1914.3				26055/1851.5	26365/1882.5	26675/1913.5
QPSK	1/0	21.50	20.54	20.49	20.83	QPSK	1/0	21.50	20.51	20.46	21.00
	1/2	21.50	20.51	20.49	20.99		1/7	21.50	20.60	20.62	21.05
	1/5	21.50	20.47	20.47	20.97		1/14	21.50	20.57	20.56	21.03
	3/0	21.50	20.74	20.66	20.94		8/0	20.50	19.69	19.66	20.00
	3/1	21.50	20.74	20.66	20.96		8/3	20.50	19.66	19.64	20.02
	3/3	21.50	20.69	20.63	20.91		8/7	20.50	19.66	19.70	20.03
	6/0	20.50	19.61	19.69	20.02		15/0	20.50	19.64	19.67	20.02
16QAM	1/0	20.50	19.87	20.42	19.57	16QAM	1/0	20.50	19.16	19.99	19.98
	1/2	20.50	19.94	20.40	19.73		1/7	20.50	19.27	20.00	20.24
	1/5	20.50	19.86	20.26	19.70		1/14	20.50	19.29	19.92	20.49
	3/0	20.50	19.63	19.83	20.14		8/0	19.50	19.01	18.86	19.13
	3/1	20.50	19.73	19.77	20.13		8/3	19.50	19.03	18.88	19.01
	3/3	20.50	19.66	19.77	20.12		8/7	19.50	18.97	18.98	19.20
	6/0	19.50	18.91	18.77	19.03		15/0	19.50	18.73	18.78	19.21
LTE B25/BW=5M		Average Conducted Power(dBm)				LTE B25/BW=10M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)		
			26065/1852.5	26365/1882.5	26665/1912.5				26090/1855	26365/1882.5	26640/1910
QPSK	1/0	21.50	20.67	20.55	20.82	QPSK	1/0	21.50	20.92	20.81	20.67
	1/12	21.50	20.70	20.90	20.96		1/24	21.50	20.94	20.70	20.95
	1/24	21.50	20.66	20.67	20.86		1/49	21.50	20.84	20.82	21.01
	12/0	20.50	19.63	19.69	19.80		25/0	20.50	19.60	19.63	19.99
	12/6	20.50	19.63	19.65	19.88		25/12	20.50	19.64	19.63	20.01
	12/13	20.50	19.74	19.65	19.80		25/25	20.50	19.78	19.61	20.00
	25/0	20.50	19.78	19.63	20.04		50/0	20.50	19.60	19.58	20.06
16QAM	1/0	20.50	19.67	19.46	19.88	16QAM	1/0	20.50	19.77	20.43	19.50
	1/12	20.50	19.24	19.64	20.27		1/24	20.50	20.14	19.87	19.61
	1/24	20.50	19.71	19.53	20.18		1/49	20.50	19.82	20.27	20.02
	12/0	19.50	18.67	18.69	18.94		25/0	19.50	18.75	18.77	19.24
	12/6	19.50	18.68	18.67	18.81		25/12	19.50	18.76	18.76	19.25
	12/13	19.50	18.66	18.72	18.80		25/25	19.50	18.73	18.78	19.24
	25/0	19.50	18.76	18.81	18.95		50/0	19.50	18.74	18.73	19.18



LTE B25/BW=15M		Average Conducted Power(dBm)				LTE B25/BW=20M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)		
			26115/1857.5	26365/1882.5	26615/1907.5				26140/1860	26365/1882.5	26590/1905
QPSK	1/0	21.50	20.61	20.79	20.64	QPSK	1/0	21.50	20.97	21.10	21.03
	1/37	21.50	20.65	20.83	20.97		1/50	21.50	20.65	20.52	20.68
	1/74	21.50	20.31	20.48	21.05		1/99	21.50	20.69	20.81	20.88
	36/0	20.50	19.59	19.41	19.56		50/0	20.50	19.69	19.96	19.75
	36/19	20.50	19.70	19.56	19.58		50/25	20.50	19.68	19.78	19.75
	36/39	20.50	19.67	19.75	19.57		50/50	20.50	19.52	19.63	19.83
	75/0	20.50	19.70	19.65	19.63		100/0	20.50	19.49	19.28	19.83
16QAM	1/0	20.50	19.25	20.19	20.21	16QAM	1/0	20.50	20.29	19.65	20.14
	1/37	20.50	19.30	20.06	20.18		1/50	20.50	20.28	19.59	20.26
	1/74	20.50	19.31	20.15	20.17		1/99	20.50	20.24	19.81	20.03
	36/0	19.50	18.78	18.76	18.72		50/0	19.50	18.46	18.83	18.96
	36/19	19.50	18.78	18.70	18.74		50/25	19.50	18.76	18.84	18.98
	36/39	19.50	18.78	18.76	18.62		50/50	19.50	18.65	18.82	18.88
	75/0	19.50	18.65	18.78	18.84		100/0	19.50	18.81	18.36	18.95

Note: The tested channel results are marks in bold.



LTE B66/BW=1.4M		Average Conducted Power(dBm)				LTE B66/BW=3M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)		
			131979 / 1710.7	132322 / 1745	132665 / 1779.3				131987 / 1711.5	132322 / 1745	132657 / 1778.5
QPSK	1/0	22.00	21.47	21.38	21.54	QPSK	1/0	22.00	21.44	21.40	21.53
	1/2	22.00	21.40	21.32	21.57		1/7	22.00	21.45	21.40	21.49
	1/5	22.00	21.51	21.33	21.46		1/14	22.00	21.52	21.49	21.63
	3/0	22.00	21.69	21.56	21.61		8/0	21.00	20.65	20.48	20.62
	3/1	22.00	21.62	21.55	21.55		8/3	21.00	20.76	20.41	20.73
	3/3	22.00	21.53	21.47	21.50		8/7	21.00	20.61	20.51	20.75
	6/0	21.00	20.69	20.63	20.68		15/0	21.00	20.69	20.59	20.70
16QAM	1/0	21.00	20.90	20.76	19.61	16QAM	1/0	21.00	20.24	20.85	20.83
	1/2	21.00	20.50	20.84	19.60		1/7	21.00	19.72	20.52	20.96
	1/5	21.00	20.45	20.91	19.72		1/14	21.00	20.22	20.80	20.83
	3/0	21.00	20.38	20.36	20.69		8/0	20.00	19.48	19.84	19.79
	3/1	21.00	20.38	20.35	20.69		8/3	20.00	19.48	19.89	19.73
	3/3	21.00	20.74	20.35	20.67		8/7	20.00	19.44	19.87	19.76
	6/0	20.00	19.95	19.77	19.93		15/0	20.00	19.19	19.71	19.80
LTE B66/BW=5M		Average Conducted Power(dBm)				LTE B66/BW=10M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up	Channel/Frequency(MHz)		
			131997 / 1712.5	132322 / 1745	132647 / 1777.5				132022 / 1715	132322 / 1745	132622 / 1775
QPSK	1/0	22.00	21.53	21.46	21.55	QPSK	1/0	22.00	21.43	21.52	21.64
	1/12	22.00	21.58	21.51	21.62		1/24	22.00	21.44	21.44	21.55
	1/24	22.00	21.52	21.42	21.61		1/49	22.00	21.41	21.63	21.54
	12/0	21.00	20.69	20.55	20.73		25/0	21.00	20.54	20.59	20.63
	12/6	21.00	20.72	20.61	20.58		25/12	21.00	20.67	20.64	20.64
	12/13	21.00	20.71	20.54	20.51		25/25	21.00	20.64	20.61	20.63
	25/0	21.00	20.67	20.55	20.64		50/0	21.00	20.60	20.44	20.58
16QAM	1/0	21.00	20.27	19.50	20.66	16QAM	1/0	21.00	19.69	20.37	20.97
	1/12	21.00	20.65	19.62	20.84		1/24	21.00	19.54	20.54	20.91
	1/24	21.00	20.34	19.53	20.70		1/49	21.00	19.71	20.42	20.50
	12/0	20.00	19.75	19.64	19.58		25/0	20.00	19.88	19.64	19.78
	12/6	20.00	19.69	19.67	19.63		25/12	20.00	19.88	19.45	19.78
	12/13	20.00	19.75	19.54	19.74		25/25	20.00	19.89	19.53	19.77
	25/0	20.00	19.65	19.81	19.63		50/0	20.00	19.65	19.65	19.72



LTE B66/BW=15M		Average Conducted Power(dBm)				LTE B66/BW=20M		Average Conducted Power(dBm)			
Modulation	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modulation	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			132047 / 1717.5	132322 / 1745	132597 / 1772.5				132072 / 1720	132322 / 1745	132572 / 1770
QPSK	1/0	22.00	21.17	21.45	21.57	QPSK	1/0	22.00	21.64	21.71	21.31
	1/37	22.00	20.99	21.53	21.68		1/50	22.00	21.57	21.57	21.57
	1/74	22.00	21.20	21.39	21.69		1/99	22.00	21.73	21.77	21.65
	36/0	21.00	20.69	20.54	20.53		50/0	21.00	20.64	20.83	20.66
	36/19	21.00	20.72	20.52	20.58		50/25	21.00	20.70	20.36	20.66
	36/39	21.00	20.67	20.53	20.48		50/50	21.00	20.63	20.57	20.66
	75/0	21.00	20.53	20.51	20.78		100/0	21.00	20.48	20.44	20.51
16QAM	1/0	21.00	20.24	20.41	20.81	16QAM	1/0	21.00	20.82	19.86	20.53
	1/37	21.00	20.43	20.35	20.71		1/50	21.00	20.74	20.07	20.51
	1/74	21.00	20.44	20.37	20.73		1/99	21.00	20.76	20.19	20.62
	36/0	20.00	19.75	19.69	19.78		50/0	20.00	19.77	19.58	19.79
	36/19	20.00	19.75	19.58	19.78		50/25	20.00	19.72	19.55	19.80
	36/39	20.00	19.70	19.60	19.71		50/50	20.00	19.77	19.63	19.78
	75/0	20.00	19.70	19.69	19.76		100/0	20.00	19.81	19.58	19.65

Note: The tested channel results are marks in bold.

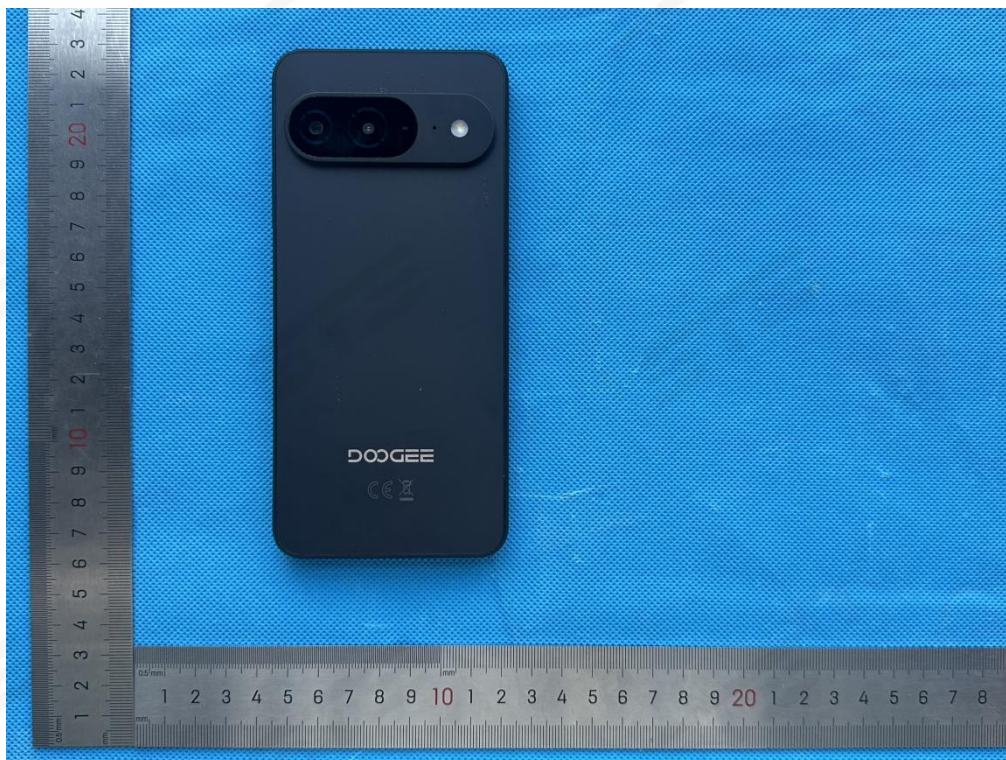
11. EUT and Test Setup Photo

11.1 EUT Photo

Front side



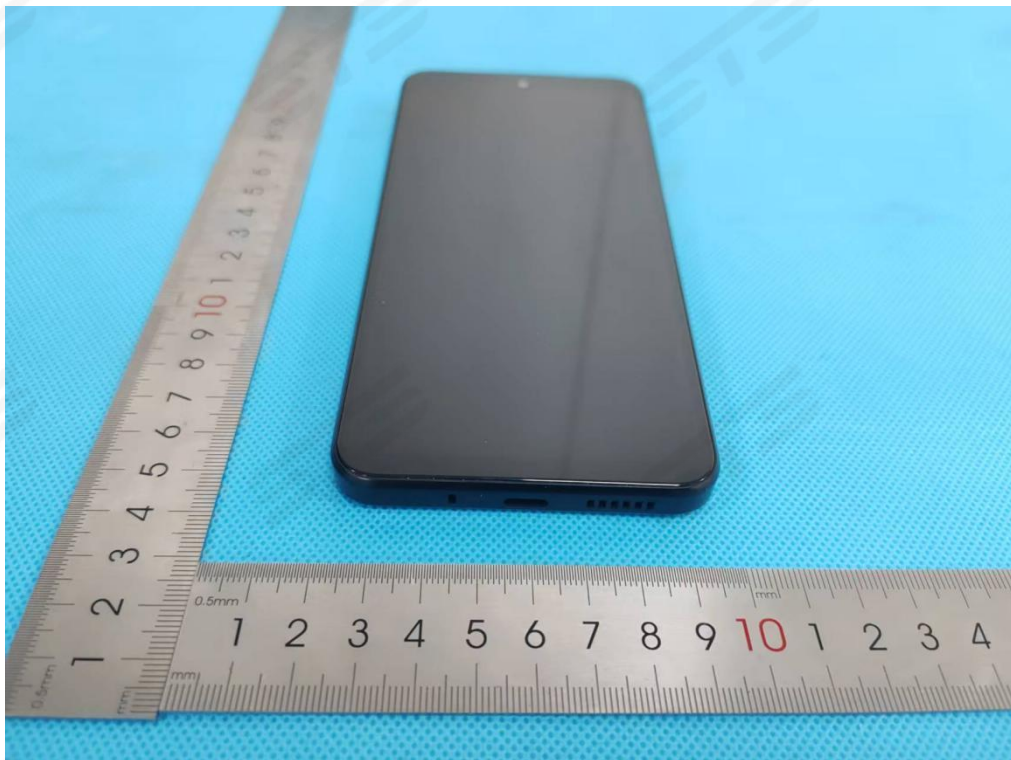
Back side



Top side



Bottom side



Left side



Right side



11.2 Setup Photo

Photo 1: Right Cheek

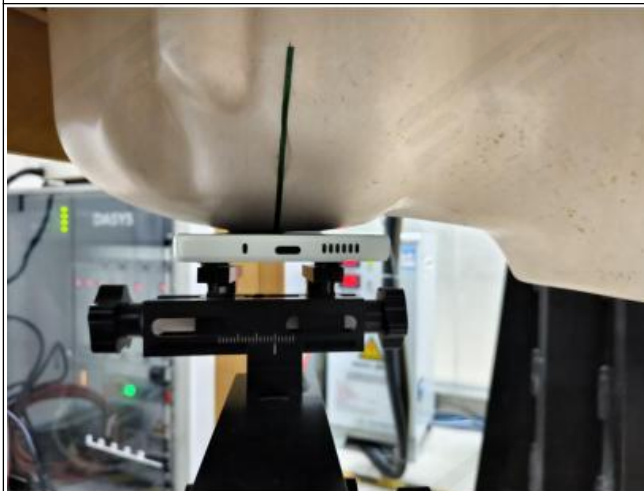


Photo 2: Right Tilted



Photo 3: Left Cheek



Photo 4: Left Tilted



Photo 5: Front Face_1cm



Photo 6: Rear Face_1cm



Photo 7: Left Side_1cm



Photo 8: Right Side_1cm



Photo 9: Top Side_1cm



Photo 10: Bottom Side_1cm



Photo 11:Front Face_0.5cm



Photo 12: Rear Face_0.5cm



Photo 13: Left Side_0.5cm



Photo 14: Right Side_0.5cm



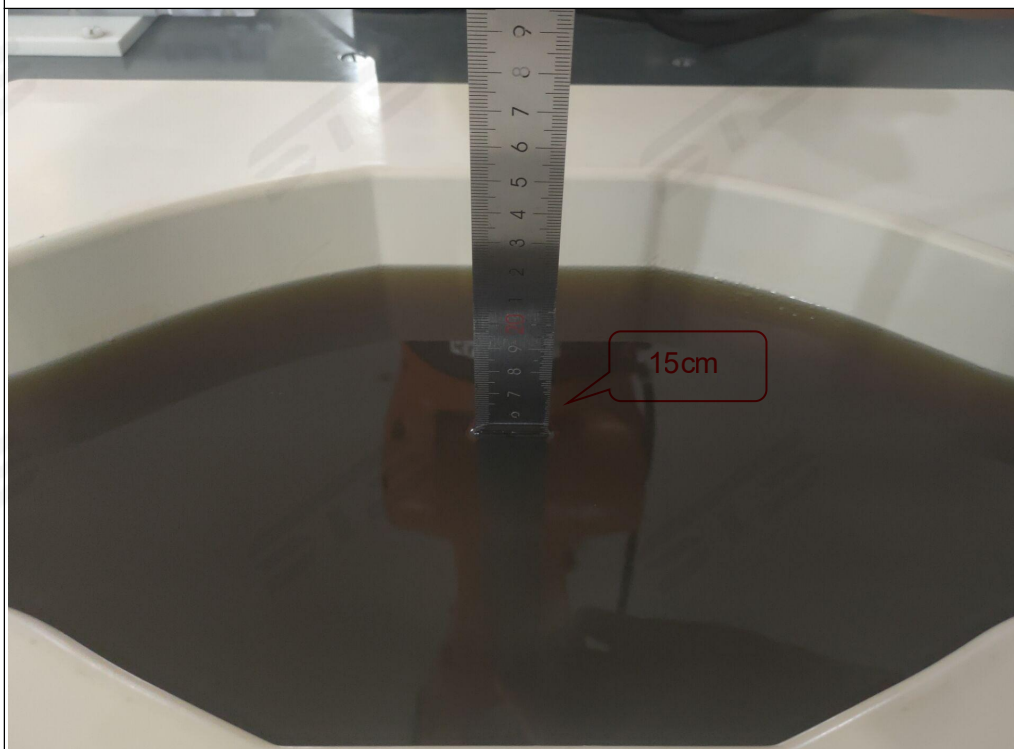
Photo 15: Top Side_0.5cm



Photo 16: Bottom Side_0.5cm



Liquid depth (15 cm)





12. SAR Result Summary

12.1 Head SAR

GSM

Test No.	Band	Mode	Channel	Test Position	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
G01	GSM 850	GSM	190	Right Cheek	Main	1	32	31.71	0.03	0.014	0.008	0.015
G02			190	Right Tilted	Main	1	32	31.71	0.02	0.009	0.002	0.010
G03			190	Left Cheek	Main	1	32	31.71	0.07	0.027	0.020	0.028
G04			190	Left Tilted	Main	1	32	31.71	0.03	0.009	0.006	0.010
G05			128	Left Cheek	Main	1	32	31.49	0.01	0.018	0.010	0.020
G06			251	Left Cheek	Main	1	32	31.78	0.06	0.018	0.013	0.019
G07			190	Left Cheek	Main	2	32	31.71	0.01	0.025	0.018	0.027
G09	GSM 1900	GSM	661	Right Cheek	Main	1	27.5	27.41	-0.02	0.016	0.009	0.017
G10			661	Right Tilted	Main	1	27.5	27.41	0.04	0.009	0.002	0.009
G11			661	Left Cheek	Main	1	27.5	27.41	-0.09	0.019	0.011	0.019
G12			661	Left Tilted	Main	1	27.5	27.41	0.02	0.011	0.003	0.011
G13			512	Left Cheek	Main	1	27.5	27.27	0.07	0.017	0.006	0.018
G14			810	Left Cheek	Main	1	27.5	27.08	0.03	0.016	0.009	0.018
G15			661	Left Cheek	Main	2	27.5	27.41	0.01	0.016	0.010	0.016

WCDMA

Test No.	Band	Mode	Channel	Test Position	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
U01	UMTS B2	RMC12.2K	9400	Right Cheek	Main	1	21	20.81	0.02	0.038	0.031	0.040
U02			9400	Right Tilted	Main	1	21	20.81	0.07	0.022	0.021	0.023
U03			9400	Left Cheek	Main	1	21	20.81	0.03	0.043	0.036	0.045
U04			9400	Left Tilted	Main	1	21	20.81	0.01	0.030	0.029	0.031
U05			9262	Left Cheek	Main	1	21	20.78	0.04	0.049	0.029	0.052
U06			9538	Left Cheek	Main	1	21	20.67	0.01	0.042	0.026	0.045
U07			9262	Left Cheek	Main	2	21	20.78	0.03	0.043	0.027	0.045
U17	UMTS B5	RMC12.2K	4182	Right Cheek	Main	1	23	22.37	0.03	0.011	0.007	0.013
U18			4182	Right Tilted	Main	1	23	22.37	0.06	0.009	0.005	0.011
U19			4182	Left Cheek	Main	1	23	22.37	0.01	0.017	0.013	0.019
U20			4182	Left Tilted	Main	1	23	22.37	0.02	0.012	0.007	0.014
U21			4132	Left Cheek	Main	1	23	22.69	0.07	0.017	0.013	0.018
U22			4233	Left Cheek	Main	1	23	22.23	0.03	0.015	0.012	0.018
U23			4182	Left Cheek	Main	2	23	22.37	0.01	0.015	0.010	0.017



LTE

Test No.	Band	Mode	Channel	RB	offset	Test Position	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
L01	LTE B2	QPSK20M	18900	1	0	Right Cheek	Main	1	21	20.86	-0.08	0.048	0.030	0.050
L02			18900	1	0	Right Tilted	Main	1	21	20.86	0.09	0.050	0.030	0.052
L03			18900	1	0	Left Cheek	Main	1	21	20.86	0.02	0.026	0.016	0.026
L04			18900	1	0	Left Tilted	Main	1	21	20.86	0.01	0.020	0.011	0.021
L05			18900	50	0	Right Cheek	Main	1	20	19.38	0.02	0.017	0.011	0.020
L06			18900	50	0	Right Tilted	Main	1	20	19.38	0.03	0.014	0.007	0.016
L07			18900	50	0	Left Cheek	Main	1	20	19.38	0.03	0.028	0.017	0.033
L08			18900	50	0	Left Tilted	Main	1	20	19.38	-0.01	0.018	0.010	0.021
L09			18700	1	0	Right Tilted	Main	1	21	20.72	0.02	0.041	0.028	0.043
L10			19100	1	0	Right Tilted	Main	1	21	20.63	0.02	0.045	0.030	0.049
L11			18900	1	0	Right Tilted	Main	2	21	20.86	0.04	0.036	0.023	0.037
L13	LTE B4	QPSK20M	20175	1	99	Right Cheek	Main	1	21.5	20.84	0.05	0.039	0.024	0.046
L14			20175	1	99	Right Tilted	Main	1	21.5	20.84	-0.03	0.031	0.016	0.037
L15			20175	1	99	Left Cheek	Main	1	21.5	20.84	0.02	0.051	0.035	0.059
L16			20175	1	99	Left Tilted	Main	1	21.5	20.84	-0.08	0.033	0.020	0.039
L17			20175	50	50	Right Cheek	Main	1	20.5	20.43	-0.03	0.022	0.012	0.022
L18			20175	50	50	Right Tilted	Main	1	20.5	20.43	-0.03	0.032	0.022	0.032
L19			20175	50	50	Left Cheek	Main	1	20.5	20.43	0.12	0.020	0.014	0.020
L20			20175	50	50	Left Tilted	Main	1	20.5	20.43	-0.05	0.033	0.018	0.033
L21			20050	1	99	Left Cheek	Main	1	21.5	20.44	0.03	0.052	0.030	0.066
L22			20300	1	99	Left Cheek	Main	1	21.5	20.69	0.06	0.056	0.035	0.068
L23			20300	1	99	Left Cheek	Main	2	21.5	20.69	0.01	0.051	0.023	0.062
L25	LTE B5	QPSK10M	20525	1	0	Right Cheek	Main	1	23	22.56	0.03	0.011	0.007	0.013
L26			20525	1	0	Right Tilted	Main	1	23	22.56	0.04	0.009	0.005	0.010
L27			20525	1	0	Left Cheek	Main	1	23	22.56	-0.08	0.015	0.011	0.017
L28			20525	1	0	Left Tilted	Main	1	23	22.56	-0.02	0.012	0.007	0.014
L29			20525	25	0	Right Cheek	Main	1	22	21.45	0.02	0.009	0.003	0.010
L30			20525	25	0	Right Tilted	Main	1	22	21.45	0.01	0.006	0.002	0.007
L31			20525	25	0	Left Cheek	Main	1	22	21.45	-0.03	0.010	0.006	0.011
L32			20525	25	0	Left Tilted	Main	1	22	21.45	-0.05	0.009	0.003	0.010
L33			20450	1	0	Left Cheek	Main	1	23	22.33	0.02	0.012	0.010	0.014
L34			20600	1	0	Left Cheek	Main	1	23	22.49	0.02	0.011	0.009	0.012
L35			20525	1	0	Left Cheek	Main	2	23	22.56	0.04	0.012	0.008	0.013
L37	LTE B7	QPSK20M	21100	1	0	Right Cheek	Main	1	22	21.97	0.02	0.017	0.011	0.017
L38			21100	1	0	Right Tilted	Main	1	22	21.97	0.03	0.014	0.007	0.014
L39			21100	1	0	Left Cheek	Main	1	22	21.97	0.03	0.033	0.017	0.033
L40			21100	1	0	Left Tilted	Main	1	22	21.97	-0.01	0.018	0.010	0.019
L41			21100	50	0	Right Cheek	Main	1	21	20.68	0.02	0.017	0.011	0.018
L42			21100	50	0	Right Tilted	Main	1	21	20.68	0.03	0.014	0.007	0.015
L43			21100	50	0	Left Cheek	Main	1	21	20.68	0.03	0.028	0.017	0.030
L44			21100	50	0	Left Tilted	Main	1	21	20.68	-0.01	0.018	0.010	0.020
L45			20850	1	0	Left Cheek	Main	1	22	21.88	0.03	0.039	0.029	0.040
L46			21350	1	0	Left Cheek	Main	1	22	21.76	0.01	0.035	0.021	0.037
L47			20850	1	0	Left Cheek	Main	2	22	21.88	0.06	0.036	0.022	0.037
L49	LTE B12	QPSK10M	23095	1	0	Right Cheek	Main	1	20	19.99	0.03	0.011	0.007	0.011
L50			23095	1	0	Right Tilted	Main	1	20	19.99	0.04	0.009	0.005	0.009
L51			23095	1	0	Left Cheek	Main	1	20	19.99	0.07	0.016	0.013	0.016



L52			23095	1	0	Left Tilted	Main	1	20	19.99	0.01	0.009	0.006	0.009
L53			23095	25	0	Right Cheek	Main	1	20	19.69	-0.02	0.012	0.007	0.013
L54			23095	25	0	Right Tilted	Main	1	20	19.69	0.02	0.009	0.003	0.010
L55			23095	25	0	Left Cheek	Main	1	20	19.69	0.01	0.006	0.002	0.006
L56			23095	25	0	Left Tilted	Main	1	20	19.69	-0.03	0.010	0.006	0.011
L57			23060	1	0	Left Cheek	Main	1	20	19.76	0.01	0.015	0.013	0.016
L58			23130	1	0	Left Cheek	Main	1	20	19.85	-0.02	0.014	0.012	0.015
L59			23095	1	0	Left Cheek	Main	2	20	19.99	-0.03	0.015	0.010	0.015
L61	LTE B17	QPSK10M	23790	1	0	Right Cheek	Main	1	22.5	22.33	0.02	0.013	0.011	0.014
L62			23790	1	0	Right Tilted	Main	1	22.5	22.33	0.03	0.009	0.007	0.009
L63			23790	1	0	Left Cheek	Main	1	22.5	22.33	0.09	0.016	0.012	0.016
L64			23790	1	0	Left Tilted	Main	1	22.5	22.33	0.01	0.010	0.008	0.010
L65			23790	25	0	Right Cheek	Main	1	21.5	20.96	-0.02	0.012	0.007	0.014
L66			23790	25	0	Right Tilted	Main	1	21.5	20.96	0.02	0.009	0.003	0.010
L67			23790	25	0	Left Cheek	Main	1	21.5	20.96	0.01	0.006	0.002	0.007
L68			23790	25	0	Left Tilted	Main	1	21.5	20.96	0.03	0.003	0.001	0.003
L69			23780	1	0	Left Cheek	Main	1	22.5	22.19	0.01	0.014	0.013	0.014
L70			23800	1	0	Left Cheek	Main	1	22.5	22.26	-0.02	0.013	0.012	0.014
L71			23790	1	0	Left Cheek	Main	2	22.5	22.33	-0.03	0.014	0.010	0.014
L73	LTE B25	QPSK20M	26365	1	0	Right Cheek	Main	1	21.5	21.5	-0.03	0.020	0.012	0.020
L74			26365	1	0	Right Tilted	Main	1	21.5	21.5	0.01	0.016	0.008	0.016
L75			26365	1	0	Left Cheek	Main	1	21.5	21.5	0.01	0.031	0.018	0.031
L76			26365	1	0	Left Tilted	Main	1	21.5	21.5	-0.08	0.020	0.020	0.020
L77			26365	50	0	Right Cheek	Main	1	20.5	19.96	-0.03	0.022	0.012	0.024
L78			26365	50	0	Right Tilted	Main	1	20.5	19.96	0.02	0.007	0.011	0.008
L79			26365	50	0	Left Cheek	Main	1	20.5	19.96	0.03	0.014	0.007	0.015
L80			26365	50	0	Left Tilted	Main	1	20.5	19.96	0.02	0.009	0.003	0.010
L81			26140	1	0	Left Cheek	Main	1	21.5	20.97	-0.05	0.026	0.018	0.029
L82			26590	1	0	Left Cheek	Main	1	21.5	21.03	0.09	0.026	0.019	0.029
L83			26365	1	0	Left Cheek	Main	2	21.5	21.5	0.04	0.024	0.015	0.024
L85	LTE B66	QPSK20M	132322	1	99	Right Cheek	Main	1	22	21.77	0.02	0.026	0.016	0.027
L86			132322	1	99	Right Tilted	Main	1	22	21.77	0.01	0.020	0.011	0.022
L87			132322	1	99	Left Cheek	Main	1	22	21.77	0.03	0.041	0.025	0.043
L88			132322	1	99	Left Tilted	Main	1	22	21.77	-0.05	0.028	0.015	0.029
L89			132322	50	0	Right Cheek	Main	1	21	20.83	0.03	0.011	0.007	0.012
L90			132322	50	0	Right Tilted	Main	1	21	20.83	0.04	0.009	0.005	0.009
L91			132322	50	0	Left Cheek	Main	1	21	20.83	0.08	0.019	0.012	0.020
L92			132322	50	0	Left Tilted	Main	1	21	20.83	-0.02	0.012	0.007	0.013
L93			132072	1	99	Left Cheek	Main	1	22	21.73	0.02	0.039	0.028	0.042
L94			132572	1	99	Left Cheek	Main	1	22	21.65	0.02	0.038	0.030	0.041
L95			132322	1	99	Left Cheek	Main	2	22	21.77	0.04	0.036	0.023	0.038



WIFI&BT

Test No.	Band	Channel	Test Position	Data Rate	Duty Cycle %	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
W01	802.11n HT40	6	Right Cheek	HT0	98.95%	22.50	22.00	-0.05	0.282	0.105	0.320
W02		6	Right Tilted	HT0	98.95%	22.50	22.00	-0.01	0.118	0.063	0.134
W03		6	Left Cheek	HT0	98.95%	22.50	22.00	0.01	0.360	0.154	0.408
W04		6	Left Tilted	HT0	98.95%	22.50	22.00	0.03	0.220	0.100	0.249
W05		3	Left Cheek	HT0	98.95%	22.50	21.75	0.03	0.280	0.122	0.336
W06		9	Left Cheek	HT0	98.95%	22.50	21.91	0.05	0.261	0.132	0.302
B01	BT	0	Right Cheek	DH5	76.73%	3.00	1.43	-0.05	0.057	0.018	0.107
B02		0	Right Tilted	DH5	76.73%	3.00	1.43	0.03	0.028	0.017	0.053
B03		0	Left Cheek	DH5	76.73%	3.00	1.43	0.09	0.080	0.025	0.150
B04		0	Left Tilted	DH5	76.73%	3.00	1.43	0.03	0.042	0.010	0.079
B05		39	Left Cheek	DH5	76.73%	3.00	2.42	0.03	0.075	0.019	0.112
B06		78	Left Cheek	DH5	76.73%	3.00	2.55	0.01	0.076	0.020	0.110
W08	802.11a	36	Right Cheek	6	91.90%	12.00	11.75	0.02	0.330	0.224	0.380
W09		36	Right Tilted	6	91.90%	12.00	11.75	-0.01	0.183	0.097	0.211
W10		36	Left Cheek	6	91.90%	12.00	11.75	-0.06	0.497	0.351	0.573
W11		36	Left Tilted	6	91.90%	12.00	11.75	-0.01	0.310	0.210	0.357
W12		40	Left Cheek	6	91.90%	12.00	11.28	-0.05	0.412	0.336	0.529
W13		48	Left Cheek	6	91.90%	12.00	11.35	0.09	0.471	0.345	0.595
W15	802.11ac VHT40	159	Right Cheek	VHT0	91.90%	13.50	13.27	-0.05	0.273	0.088	0.313
W16		159	Right Tilted	VHT0	91.90%	13.50	13.27	0.03	0.206	0.057	0.236
W17		159	Left Cheek	VHT0	91.90%	13.50	13.27	0.09	0.327	0.102	0.375
W18		159	Left Tilted	VHT0	91.90%	13.50	13.27	0.02	0.286	0.100	0.328
W19		151	Left Cheek	VHT0	91.90%	13.50	13.11	-0.01	0.299	0.110	0.356



Note:

1. Per KDB 447498 D04, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
2. Per KDB 248227- 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.
3. Per KDB 865664 D01, Repeated measurement is not required when the original highest measured SAR is <0.80 W/kg



12.2 Body-worn and Hotspot SAR

GSM

Test No.	Band	Mode	Channel	Test Position	Separation Distance (cm)	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
G23	GSM 850	GPRS2Tx	190	Front Face	0.5	Main	1	31	30.44	-0.03	0.042	0.026	0.048
G24			190	Rear Face	0.5	Main	1	31	30.44	-0.09	0.092	0.052	0.105
G25			190	Left Side	0.5	Main	1	31	30.44	0.03	0.011	0.007	0.013
G26			190	Right Side	0.5	Main	1	31	30.44	0.04	0.009	0.005	0.010
G28			190	Bottom Side	0.5	Main	1	31	30.44	-0.02	0.012	0.007	0.014
G29			128	Rear Face	0.5	Main	1	31	30.21	0.05	0.085	0.056	0.102
G30			251	Rear Face	0.5	Main	1	31	30.57	0.02	0.068	0.043	0.075
G31			190	Rear Face	0.5	Main	2	31	30.44	-0.09	0.080	0.048	0.091
G32			190	Rear Face	1.0(Hotspot)	Main	1	32	31.71	-0.06	0.048	0.028	0.051
G39	GSM 1900	GPRS2Tx	661	Front Face	0.5	Main	1	26.5	26.15	0.04	0.140	0.007	0.152
G40			661	Rear Face	0.5	Main	1	26.5	26.15	-0.03	0.192	0.106	0.208
G41			661	Left Side	0.5	Main	1	26.5	26.15	0.04	0.011	0.007	0.012
G42			661	Right Side	0.5	Main	1	26.5	26.15	0.04	0.009	0.005	0.010
G44			661	Bottom Side	0.5	Main	1	26.5	26.15	-0.02	0.012	0.007	0.013
G45			512	Rear Face	0.5	Main	1	26.5	25.97	-0.09	0.183	0.090	0.207
G46			810	Rear Face	0.5	Main	1	26.5	25.66	-0.02	0.162	0.100	0.197
G47			661	Rear Face	0.5	Main	2	26.5	26.15	-0.09	0.165	0.102	0.179
G48			661	Rear Face	1.0(Hotspot)	Main	1	27.5	27.41	-0.06	0.104	0.060	0.106



WCDMA

Test No.	Band	Mode	Channel	Test Position	Separation Distance (cm)	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
U31	UMTS B2	RMC12.2K	9400	Front Face	0.5	Main	1	21	20.81	-0.09	0.160	0.102	0.167
U32			9400	Rear Face	0.5	Main	1	21	20.81	-0.08	0.290	0.162	0.303
U33			9400	Left Side	0.5	Main	1	21	20.81	0.04	0.048	0.030	0.050
U34			9400	Right Side	0.5	Main	1	21	20.81	0.08	0.038	0.020	0.040
U36			9400	Bottom Side	0.5	Main	1	21	20.81	-0.02	0.052	0.028	0.054
U37			9262	Rear Face	0.5	Main	1	21	20.78	-0.09	0.210	0.130	0.221
U38			9538	Rear Face	0.5	Main	1	21	20.67	0.04	0.220	0.120	0.237
U39			9400	Rear Face	0.5	Main	2	21	20.81	-0.02	0.211	0.090	0.220
U40			9400	Rear Face	1.0(Hotspot)	Main	1	21	20.81	-0.08	0.113	0.067	0.118
U63	UMTS B5	RMC12.2K	4182	Front Face	0.5	Main	1	23	22.37	-0.02	0.026	0.012	0.030
U64			4182	Rear Face	0.5	Main	1	23	22.37	-0.09	0.046	0.027	0.053
U65			4182	Left Side	0.5	Main	1	23	22.37	0.08	0.011	0.007	0.013
U66			4182	Right Side	0.5	Main	1	23	22.37	-0.02	0.009	0.005	0.011
U68			4182	Bottom Side	0.5	Main	1	23	22.37	-0.09	0.012	0.007	0.014
U69			4132	Rear Face	0.5	Main	1	23	22.69	0.04	0.035	0.02	0.038
U70			4233	Rear Face	0.5	Main	1	23	22.23	-0.09	0.033	0.018	0.039
U71			4182	Rear Face	0.5	Main	2	23	22.37	-0.02	0.041	0.016	0.047
U72			4182	Rear Face	1.0(Hotspot)	Main	1	23	22.37	0.01	0.020	0.014	0.023



LTE

Test No.	Band	Mode	Channel	RB	Offset	Test Position	Separation Distance (cm)	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
L108	LTE B2	QPSK20M	18900	1	0	Front Face	0.5	Main	1	21	20.86	0.08	0.277	0.155	0.286
L109			18900	1	0	Rear Face	0.5	Main	1	21	20.86	-0.06	0.449	0.246	0.464
L110			18900	1	0	Left Side	0.5	Main	1	21	20.86	0.01	0.138	0.068	0.143
L111			18900	1	0	Right Side	0.5	Main	1	21	20.86	0.03	0.140	0.007	0.145
L113			18900	1	0	Bottom Side	0.5	Main	1	21	20.86	0.05	0.763	0.371	0.788
L114			18900	50	0	Front Face	0.5	Main	1	20	19.38	0.02	0.083	0.044	0.096
L115			18900	50	0	Rear Face	0.5	Main	1	20	19.38	0.01	0.017	0.008	0.020
L116			18900	50	0	Left Side	0.5	Main	1	20	19.38	0.04	0.014	0.007	0.016
L117			18900	50	0	Right Side	0.5	Main	1	20	19.38	0.08	0.093	0.045	0.107
L119			18900	50	0	Bottom Side	0.5	Main	1	20	19.38	-0.01	0.480	0.197	0.554
L120			18700	1	0	Bottom Side	0.5	Main	1	21	20.72	-0.08	0.590	0.186	0.629
L121			19100	1	0	Bottom Side	0.5	Main	1	21	20.63	0.04	0.620	0.158	0.675
L122			18900	1	0	Bottom Side	0.5	Main	2	21	20.86	0.02	0.690	0.195	0.713
L123			18900	1	0	Bottom Side	1.0(Hotspot)	Main	1	21	20.86	-0.08	0.204	0.119	0.211
L132	LTE B4	QPSK20M	20175	1	99	Front Face	0.5	Main	1	21.5	20.84	0.03	0.168	0.110	0.196
L133			20175	1	99	Rear Face	0.5	Main	1	21.5	20.84	0.02	0.172	0.102	0.200
L134			20175	1	99	Left Side	0.5	Main	1	21.5	20.84	0.01	0.188	0.113	0.219
L135			20175	1	99	Right Side	0.5	Main	1	21.5	20.84	-0.08	0.204	0.119	0.237
L137			20175	1	99	Bottom Side	0.5	Main	1	21.5	20.84	-0.07	0.560	0.321	0.652
L138			20175	50	50	Front Face	0.5	Main	1	20.5	20.43	0.01	0.138	0.068	0.140
L139			20175	50	50	Rear Face	0.5	Main	1	20.5	20.43	0.03	0.140	0.007	0.142
L140			20175	50	50	Left Side	0.5	Main	1	20.5	20.43	0.03	0.210	0.017	0.213
L141			20175	50	50	Right Side	0.5	Main	1	20.5	20.43	0.05	0.129	0.068	0.131
L143			20175	50	50	Bottom Side	0.5	Main	1	20.5	20.43	-0.01	0.480	0.197	0.488
L144			20050	1	99	Bottom Side	0.5	Main	1	21.5	20.44	-0.08	0.490	0.186	0.625
L145			20300	1	99	Bottom Side	0.5	Main	1	21.5	20.69	0.02	0.520	0.158	0.627
L146			20175	1	99	Bottom Side	0.5	Main	1	21.5	20.84	0.01	0.490	0.195	0.570
L147			20175	1	99	Bottom Side	1.0(Hotspot)	Main	1	21.5	20.84	0.09	0.322	0.190	0.375
L156	LTE B5	QPSK10M	20525	1	99	Front Face	0.5	Main	1	23	22.56	-0.08	0.103	0.055	0.114
L157			20525	1	99	Rear Face	0.5	Main	1	23	22.56	-0.06	0.056	0.026	0.062
L158			20525	1	99	Left Side	0.5	Main	1	23	22.56	-0.07	0.138	0.068	0.153
L159			20525	1	99	Right Side	0.5	Main	1	23	22.56	0.01	0.140	0.007	0.155
L161			20525	1	99	Bottom Side	0.5	Main	1	23	22.56	0.03	0.201	0.026	0.222
L162			20525	50	50	Front Face	0.5	Main	1	22	21.45	0.05	0.138	0.068	0.157
L163			20525	50	50	Rear Face	0.5	Main	1	22	21.45	-0.06	0.140	0.007	0.159
L164			20525	50	50	Left Side	0.5	Main	1	22	21.45	-0.01	0.100	0.068	0.114
L165			20525	50	50	Right Side	0.5	Main	1	22	21.45	-0.08	0.103	0.022	0.117
L167			20525	50	50	Bottom Side	0.5	Main	1	22	21.45	-0.08	0.180	0.062	0.204
L168			20450	1	99	Bottom Side	0.5	Main	1	23	22.33	0.02	0.227	0.078	0.265
L169			20600	1	99	Bottom Side	0.5	Main	1	23	22.49	0.05	0.210	0.064	0.236
L170			20450	1	99	Bottom Side	0.5	Main	2	23	22.33	0.08	0.212	0.062	0.247
L171			20450	1	0	Bottom Side	1.0(Hotspot)	Main	1	23	22.33	0.07	0.027	0.015	0.031
L180	LTE B7	QPSK20M	21100	1	0	Front Face	0.5	Main	1	22	21.97	0.05	0.129	0.068	0.130
L181			21100	1	0	Rear Face	0.5	Main	1	22	21.97	-0.08	0.204	0.119	0.205
L182			21100	1	0	Left Side	0.5	Main	1	22	21.97	-0.06	0.103	0.055	0.104
L183			21100	1	0	Right Side	0.5	Main	1	22	21.97	0.07	0.056	0.026	0.056
L185			21100	1	0	Bottom Side	0.5	Main	1	22	21.97	0.02	0.211	0.102	0.212
L186			21100	50	0	Front Face	0.5	Main	1	21	20.68	0.01	0.188	0.113	0.202



L187			21100	50	0	Rear Face	0.5	Main	1	21	20.68	-0.06	0.103	0.055	0.111
L188			21100	50	0	Left Side	0.5	Main	1	21	20.68	0.07	0.056	0.026	0.060
L189			21100	50	0	Right Side	0.5	Main	1	21	20.68	0.03	0.168	0.110	0.181
L191			21100	50	0	Bottom Side	0.5	Main	1	21	20.68	0.01	0.188	0.113	0.202
L192			20850	1	0	Bottom Side	0.5	Main	1	22	21.88	0.02	0.258	0.112	0.265
L193			21350	1	0	Bottom Side	0.5	Main	1	22	21.76	0.03	0.244	0.110	0.258
L194			20850	1	0	Bottom Side	0.5	Main	2	22	21.88	0.02	0.231	0.103	0.237
L195			20850	1	0	Bottom Side	1.0(Hotspot)	Main	1	22	21.88	-0.03	0.071	0.034	0.073
L204	LTE B12	QPSK10M	23095	1	0	Front Face	0.5	Main	1	20	19.99	0.02	0.188	0.113	0.188
L205			23095	1	0	Rear Face	0.5	Main	1	20	19.99	0.01	0.103	0.055	0.103
L206			23095	1	0	Left Side	0.5	Main	1	20	19.99	0.02	0.056	0.026	0.056
L207			23095	1	0	Right Side	0.5	Main	1	20	19.99	0.03	0.168	0.110	0.168
L209			23095	1	0	Bottom Side	0.5	Main	1	20	19.99	0.04	0.267	0.087	0.268
L210			23095	25	0	Front Face	0.5	Main	1	20	19.69	0.02	0.188	0.113	0.202
L211			23095	25	0	Rear Face	0.5	Main	1	20	19.69	0.02	0.113	0.055	0.121
L212			23095	25	0	Left Side	0.5	Main	1	20	19.69	0.02	0.056	0.026	0.060
L213			23095	25	0	Right Side	0.5	Main	1	20	19.69	0.01	0.165	0.110	0.177
L215			23095	25	0	Bottom Side	0.5	Main	1	20	19.69	0.03	0.210	0.050	0.226
L216			23060	1	0	Bottom Side	0.5	Main	1	20	19.76	0.02	0.226	0.085	0.239
L217			23130	1	0	Bottom Side	0.5	Main	1	20	19.85	0.02	0.231	0.060	0.239
L218			23095	1	0	Bottom Side	0.5	Main	2	20	19.99	0.02	0.231	0.075	0.232
L219			23095	1	0	Bottom Side	1.0(Hotspot)	Main	1	20	19.99	0.07	0.040	0.030	0.040
L228	LTE B17	QPSK10M	23790	1	0	Front Face	0.5	Main	1	22.5	22.33	0.02	0.188	0.113	0.196
L229			23790	1	0	Rear Face	0.5	Main	1	22.5	22.33	0.01	0.103	0.055	0.107
L230			23790	1	0	Left Side	0.5	Main	1	22.5	22.33	0.02	0.056	0.026	0.058
L231			23790	1	0	Right Side	0.5	Main	1	22.5	22.33	0.03	0.168	0.110	0.175
L233			23790	1	0	Bottom Side	0.5	Main	1	22.5	22.33	0.05	0.252	0.083	0.262
L234			23790	25	0	Front Face	0.5	Main	1	21.5	20.96	0.02	0.113	0.055	0.128
L235			23790	25	0	Rear Face	0.5	Main	1	21.5	20.96	0.02	0.056	0.026	0.063
L236			23790	25	0	Left Side	0.5	Main	1	21.5	20.96	0.01	0.165	0.110	0.187
L237			23790	25	0	Right Side	0.5	Main	1	21.5	20.96	0.02	0.110	0.102	0.125
L239			23790	25	0	Bottom Side	0.5	Main	1	21.5	20.96	0.03	0.210	0.050	0.238
L240			23780	1	0	Bottom Side	0.5	Main	1	22.5	22.19	0.02	0.226	0.085	0.243
L241			23800	1	0	Bottom Side	0.5	Main	1	22.5	22.26	0.02	0.231	0.060	0.244
L242			23790	1	0	Bottom Side	0.5	Main	2	22.5	22.33	0.02	0.231	0.075	0.240
L243			23790	1	0	Bottom Side	1.0(Hotspot)	Main	1	22.5	22.33	0.01	0.040	0.030	0.041
L252	LTE B25	QPSK20M	26365	1	0	Front Face	0.5	Main	1	21.5	21.1	0.03	0.355	0.184	0.390
L253			26365	1	0	Rear Face	0.5	Main	1	21.5	21.1	-0.02	0.397	0.222	0.435
L254			26365	1	0	Left Side	0.5	Main	1	21.5	21.1	0.05	0.129	0.068	0.142
L255			26365	1	0	Right Side	0.5	Main	1	21.5	21.1	-0.06	0.103	0.055	0.113
L257			26365	1	0	Bottom Side	0.5	Main	1	21.5	21.1	-0.07	0.597	0.252	0.655
L258			26365	50	0	Front Face	0.5	Main	1	20.5	19.96	0.04	0.045	0.024	0.051
L259			26365	50	0	Rear Face	0.5	Main	1	20.5	19.96	0.05	0.036	0.019	0.041
L260			26365	50	0	Left Side	0.5	Main	1	20.5	19.96	0.03	0.020	0.009	0.022
L261			26365	50	0	Right Side	0.5	Main	1	20.5	19.96	0.05	0.129	0.068	0.146
L263			26365	50	0	Bottom Side	0.5	Main	1	20.5	19.96	-0.01	0.424	0.179	0.480
L264			26140	1	0	Bottom Side	0.5	Main	1	21.5	20.97	0.03	0.598	0.123	0.676
L265			26590	1	0	Bottom Side	0.5	Main	1	21.5	21.03	-0.03	0.681	0.362	0.759
L266			26365	1	0	Bottom Side	0.5	Main	2	21.5	21.03	0.02	0.661	0.310	0.737
L245			26365	1	0	Bottom Side	1.0(Hotspot)	Main	1	21.5	21.1	-0.04	0.213	0.126	0.234



L276	LTE B66	QPSK20M	132322	1	99	Front Face	0.5	Main	1	22	21.77	0.02	0.140	0.072	0.148
L277			132322	1	99	Rear Face	0.5	Main	1	22	21.77	-0.01	0.174	0.091	0.183
L278			132322	1	99	Left Side	0.5	Main	1	22	21.77	0.05	0.037	0.018	0.039
L279			132322	1	99	Right Side	0.5	Main	1	22	21.77	-0.03	0.030	0.015	0.031
L281			132322	1	99	Bottom Side	0.5	Main	1	22	21.77	0.06	0.616	0.369	0.650
L282			132322	50	0	Front Face	0.5	Main	1	21	20.83	0.05	0.216	0.114	0.225
L283			132322	50	0	Rear Face	0.5	Main	1	21	20.83	0.09	0.173	0.093	0.180
L284			132322	50	0	Left Side	0.5	Main	1	21	20.83	-0.02	0.093	0.044	0.097
L285			132322	50	0	Right Side	0.5	Main	1	21	20.83	0.02	0.061	0.033	0.064
L287			132322	50	0	Bottom Side	0.5	Main	1	21	20.83	0.03	0.502	0.287	0.522
L288			132072	1	99	Bottom Side	0.5	Main	1	22	21.73	-0.07	0.546	0.304	0.581
L289			132572	1	99	Bottom Side	0.5	Main	1	22	21.65	0.04	0.589	0.336	0.638
L290			132322	1	99	Bottom Side	0.5	Main	2	22	21.77	0.01	0.612	0.351	0.645
L291			132322	1	99	Bottom Side	1.0(Hotspot)	Main	1	22	21.77	-0.03	0.339	0.197	0.357



WIFI

Test No.	Band	Channel	Test Position	Separation Distance (cm)	Data Rate	Duty Cycle %	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
W27	802.11n HT40	6	Front Face	0.5	HT0	98.95%	22.50	22.00	0.08	0.157	0.056	0.178
W28		6	Rear Face	0.5	HT0	98.95%	22.50	22.00	0.05	0.076	0.029	0.086
W29		6	Right Side	0.5	HT0	98.95%	22.50	22.00	0.03	0.060	0.014	0.068
W30		6	Top Side	0.5	HT0	98.95%	22.50	22.00	0.05	0.033	0.007	0.037
W31		3	Front Face	0.5	HT0	98.95%	22.50	21.75	0.06	0.133	0.042	0.160
W32		9	Front Face	0.5	HT0	98.95%	22.50	21.91	0.03	0.132	0.042	0.153
W33		6	Front Face	1.0(Hotspot)	HT0	98.95%	22.50	22.00	0.09	0.066	0.032	0.074
B13	BT	0	Front Face	0.5	DH5	76.73%	3.00	1.43	0.01	0.065	0.021	0.122
B14		0	Rear Face	0.5	DH5	76.73%	3.00	1.43	0.09	0.038	0.011	0.070
B15		0	Right Side	0.5	DH5	76.73%	3.00	1.43	0.01	0.021	0.017	0.039
B16		0	Top Side	0.5	DH5	76.73%	3.00	1.43	0.07	0.025	0.013	0.047
B17		39	Front Face	0.5	DH5	76.73%	3.00	2.42	0.08	0.055	0.020	0.082
B18		78	Front Face	0.5	DH5	76.73%	3.00	2.55	-0.06	0.054	0.018	0.078
B19		0	Front Face	1.0(Hotspot)	DH5	76.73%	3.00	1.43	0.01	0.003	0.001	0.006
W40	802.11a	36	Front Face	0.5	6	91.90%	12.00	11.75	0.03	0.143	0.040	0.165
W41		36	Rear Face	0.5	6	91.90%	12.00	11.75	0.01	0.090	0.030	0.104
W42		36	Right Side	0.5	6	91.90%	12.00	11.75	0.07	0.051	0.021	0.059
W43		36	Top Side	0.5	6	91.90%	12.00	11.75	0.08	0.033	0.012	0.038
W44		40	Front Face	0.5	6	91.90%	12.00	11.28	-0.06	0.123	0.038	0.158
W45		48	Front Face	0.5	6	91.90%	12.00	11.35	0.02	0.121	0.034	0.153
W46		36	Front Face	1.0(Hotspot)	6	91.90%	12.00	11.75	0.03	0.051	0.018	0.058
W52	802.11ac VHT40	159	Front Face	0.5	VHT0	91.90%	13.50	13.27	0.01	0.114	0.037	0.131
W53		159	Rear Face	0.5	VHT0	91.90%	13.50	13.27	0.01	0.058	0.026	0.067
W54		159	Right Side	0.5	VHT0	91.90%	13.50	13.27	0.07	0.029	0.013	0.033
W55		159	Top Side	0.5	VHT0	91.90%	13.50	13.27	0.08	0.021	0.011	0.024
W56		151	Front Face	0.5	VHT0	91.90%	13.50	13.11	-0.06	0.102	0.030	0.121
W57		159	Front Face	1.0(Hotspot)	VHT0	91.90%	13.50	13.27	0.01	0.012	0.004	0.014



Note:

1. The test separation of all above table is 5mm.
2. Per KDB 447498 D04, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
3. Per KDB 248227- 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.
4. When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.

12.3 Simultaneous Multi-band Transmission Evaluation

Application Simultaneous Transmission information:

Position	Simultaneous State
Head& Body-worn& Hotspot	1. GSM + 2.4G WLAN/5G WLAN + NFC
	2. GSM + 2.4G WLAN + 5G WLAN + NFC
	3. GSM + Bluetooth + 5G WLAN + NFC
	4. WCDMA + 2.4G WLAN/5G WLAN + NFC
	5. WCDMA + 2.4G WLAN + 5G WLAN + NFC
	6. WCDMA + Bluetooth + 5G WLAN + NFC
	7. LTE + 2.4G WLAN/5G WLAN + NFC
	8. LTE + 2.4G WLAN + 5G WLAN + NFC
	9. LTE + Bluetooth + 5G WLAN + NFC

Note: Bluetooth and 2.4GWLAN can't simultaneous transmission at the same time.



Position		Right Cheek	Right Tilted	Left Cheek	Left Tilted	Front Face (5mm)	Rear Face (5mm)	Left Side (5mm)	Right Side (5mm)	Top Side (5mm)	Bottom Side (5mm)
SAR _{1g} (W/Kg)											
Ant Main	GSM 850	0.015	0.010	0.028	0.010	0.048	0.105	0.013	0.010	/	0.014
	GSM 1900	0.017	0.009	0.019	0.011	0.152	0.208	0.012	0.010	/	0.013
	UMTS B2	0.040	0.023	0.052	0.031	0.167	0.303	0.050	0.040	/	0.054
	UMTS B5	0.013	0.011	0.019	0.014	0.030	0.053	0.013	0.011	/	0.014
	LTE B2	0.050	0.052	0.026	0.021	0.286	0.464	0.143	0.145	/	0.788
	LTE B4	0.046	0.037	0.059	0.039	0.196	0.200	0.219	0.237	/	0.652
	LTE B5	0.013	0.010	0.017	0.014	0.114	0.062	0.153	0.155	/	0.222
	LTE B7	0.017	0.014	0.040	0.019	0.130	0.205	0.104	0.056	/	0.265
	LTE B12	0.011	0.009	0.016	0.009	0.188	0.103	0.056	0.168	/	0.268
	LTE B17	0.014	0.009	0.016	0.010	0.196	0.107	0.058	0.175	/	0.262
	LTE B25	0.020	0.016	0.031	0.020	0.390	0.435	0.142	0.113	/	0.759
	LTE B66	0.027	0.022	0.043	0.029	0.148	0.183	0.039	0.031	/	0.650
Ant WIFI2.4G	BT	0.107	0.053	0.150	0.079	0.122	0.070	/	0.039	0.047	/
	WIFI 2.4G	0.320	0.134	0.408	0.249	0.178	0.086	/	0.068	0.037	/
Ant WIFI5G	WIFI 5.2G	0.380	0.211	0.573	0.357	0.165	0.104	/	0.059	0.038	/
	WIFI 5.8G	0.313	0.236	0.375	0.328	0.131	0.067	/	0.033	0.024	/
Ant NFC	NFC	/	/	/	/	/	/	/	/	/	/
MAX $\sum$ SAR _{1g}		0.750	0.422	1.040	0.646	0.732	0.654	0.219	0.364	0.085	0.788

Note: Thus SAR_{MAX.total} = **1.04** W/Kg < 1.6 W/Kg, it is compliant with 1999/519/EC.

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.

When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR-1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR-1g 1.6 W/kg), SAR test exclusion is determined by the SPLSR.



13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
750MHz Dipole	MVG	SID750	SN 30/14 DIP0G750-331	2023-07-04	2026-07-03
835MHz Dipole	MVG	SID835	SN 30/14 DIP0G835-332	2023-07-04	2026-07-03
900MHz Dipole	MVG	SID900	5023-DIP0G900-746	2023-12-20	2026-12-19
1800MHz Dipole	MVG	SID1800	5023-DIP1G800-747	2023-12-20	2026-12-19
1900MHz Dipole	MVG	SID1900	SN 30/14 DIP1G900-333	2023-09-14	2026-09-13
2000MHz Dipole	MVG	SID2000	SN 30/14 DIP2G000-334	2023-07-04	2026-07-03
2450MHz Dipole	MVG	SID2450	SN 30/14 DIP2G450-335	2023-07-04	2026-07-03
2600MHz Dipole	MVG	SID2600	SN 30/14 DIP2G600-336	2023-07-04	2026-07-03
3500MHz Dipole	MVG	SID3500	SN 08/21 DIP3G 500-553	2024-02-14	2027-02-13
3700MHz Dipole	MVG	SID3700	SN 08/21 DIP3G 700-554	2024-02-14	2027-02-13
Waveguide	MVG	SWG5500	SN 13/14 WGA32	2023-07-04	2026-07-03
Data Acquisition Electronics DAEx	SPEAG	DAE3	428	2025-09-08	2026-09-07
E-field Probe	SPEAG	EX3DV4	3806	2025-09-11	2026-09-10
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2025-09-15	2026-09-14
Attenuator	Agilent	HXT-10-8-SMA	240327017	2025-02-22	2026-02-21
Directional coupler	Xi'an Xingbo	XBOH-OA08-20dB	211123-4-3	2025-02-22	2026-02-21
Network Analyzer	Agilent	E5071C	MY46520378	2025-09-26	2026-09-24
Multi Meter	Keithley	Multi Meter 2000	4050073	2025-09-22	2026-09-21
Signal Generator	Agilent	N5182A	MY50140530	2025-09-26	2026-09-25
Wireless Communication Test Set	Agilent	8960-E5515C	MY48360751	2025-02-22	2026-02-21
Wireless Communication Test Set	R&S	CMW500	156324	2025-09-25	2026-09-24
Power Amplifier	DESAY	WCS-DLNA50M8G50G1	CSKJLNA231227A	2025-09-29	2026-09-28
Power Meter	R&S	NRP	100510	2025-09-25	2026-09-24
Power Sensor	R&S	NRP-Z11	101919	2025-09-25	2026-09-24
Power Sensor	Keysight	U2021XA	MY56280002	2025-09-25	2026-09-24
Temperature hygrometer	TOPRIE	TP502V4-P	6700000124198	2025-10-09	2026-10-08
Thermograph	Elitech	RC-4	S/N EF7176501537	2025-10-17	2026-10-16

Appendix A. System Validation Plots

Test Laboratory: STS Lab

Date: 2025/12/10

System Check_750MHz_1210

DUT: Dipole 750 MHz

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.888 \text{ S/m}$; $\epsilon_r = 42.419$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: $22.6 \text{ }^\circ\text{C}$; Liquid Temperature: $22.3 \text{ }^\circ\text{C}$

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(8.35, 8.89, 9.14) @ 750 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (7x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.86 W/kg

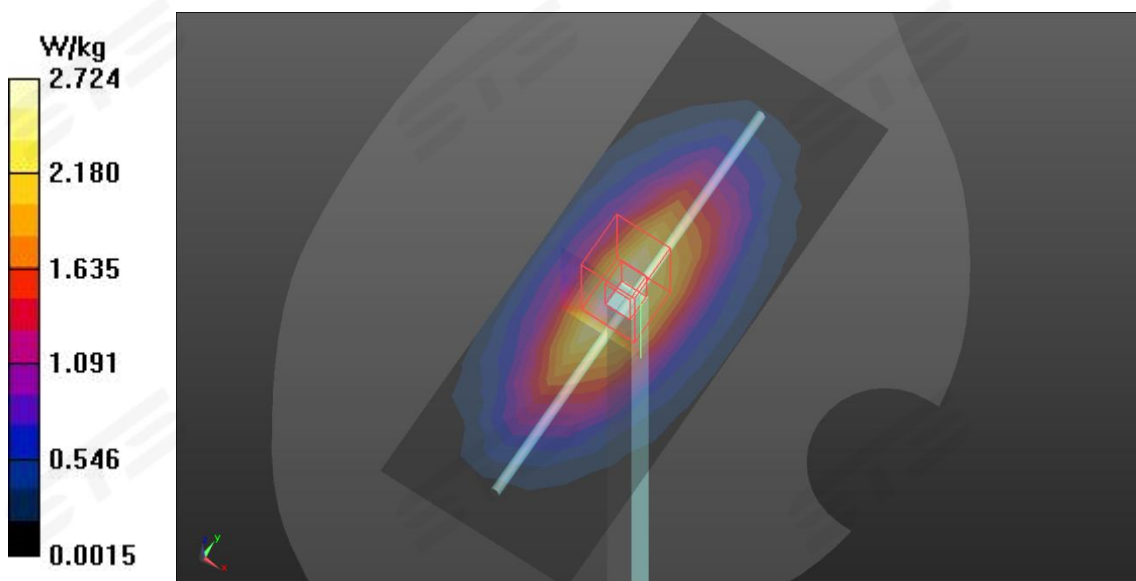
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 58.21 V/m ; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.34 W/kg
SAR(1 g) = 2.11 W/kg ; SAR(10 g) = 1.38 W/kg

Smallest distance from peaks to all points 3 dB below = 17.6 mm

Ratio of SAR at M2 to SAR at M1 = 62.8%

Maximum value of SAR (measured) = 2.86 W/kg




Test Laboratory: STS Lab

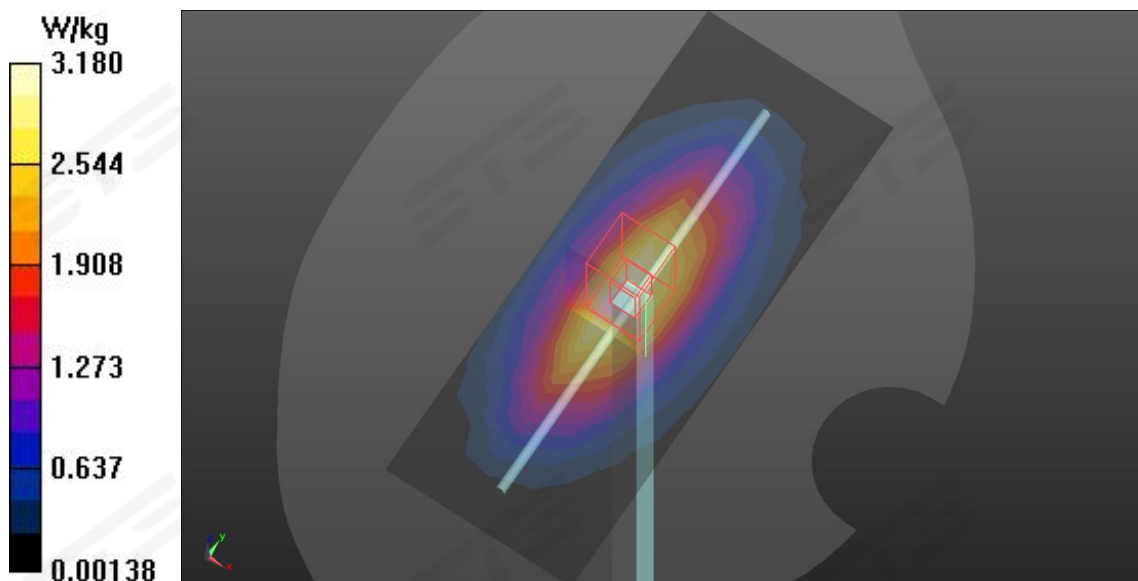
Date: 2025/12/2

System Check_835Mhz_1202**DUT: Dipole 835 MHz**

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

Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.919 \text{ S/m}$; $\epsilon_r = 42.186$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature: 22.3°C ; Liquid Temperature: 22.0°C **DASY Configuration:**

- Probe: EX3DV4 - SN3806; ConvF(8.20, 8.73, 8.98) @ 835 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (6x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 3.03 W/kg **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 60.62 V/m ; Power Drift = 0.01 dB Peak SAR (extrapolated) = 3.88 W/kg **SAR(1 g) = 2.35 W/kg ; SAR(10 g) = 1.53 W/kg** Smallest distance from peaks to all points 3 dB below = 16 mm Ratio of SAR at M2 to SAR at M1 = 61.1% Maximum value of SAR (measured) = 3.28 W/kg 



Test Laboratory: STS Lab

Date: 2025/12/7

System Check_1800Mhz_1207**DUT: Dipole 1800 MHz**

Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1800$ MHz; $\sigma = 1.383$ S/m; $\epsilon_r = 41.405$; $\rho = 1000$ kg/m³

Ambient Temperature: 20.8 °C; Liquid Temperature: 20.6 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(7.06, 7.52, 7.74) @ 1800 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (6x8x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 9.79 W/kg

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

Reference Value = 108.3 V/m; Power Drift = -0.05 dB

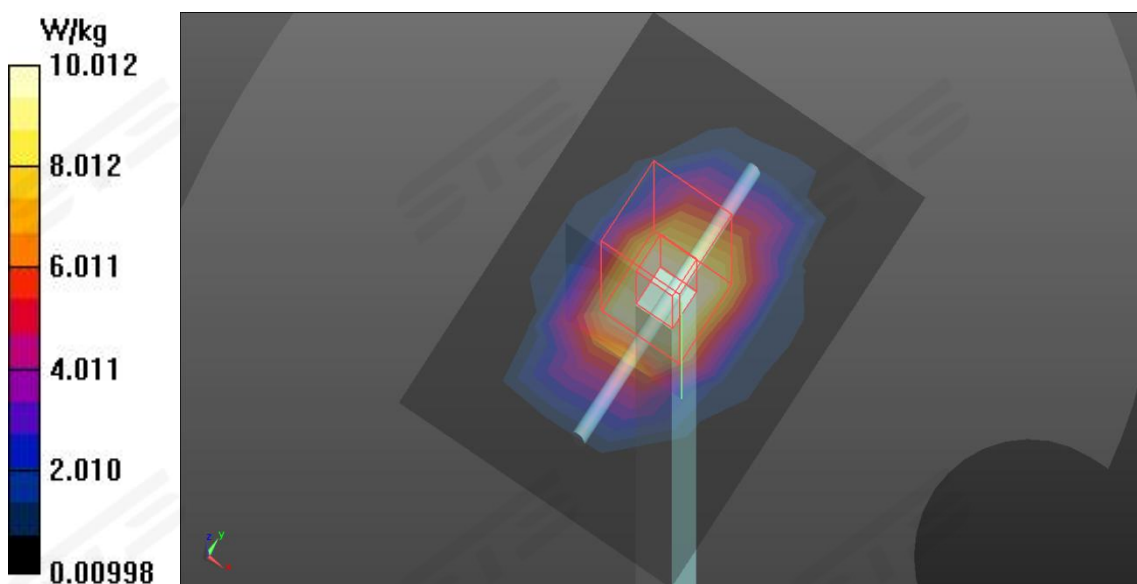
Peak SAR (extrapolated) = 18.3 W/kg

SAR(1 g) = 9.73 W/kg; SAR(10 g) = 5.02 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 52.2%

Maximum value of SAR (measured) = 15.1 W/kg





Test Laboratory: STS Lab

Date: 2025/12/8

System Check_1900Mhz_1208**DUT: Dipole 1900 MHz**

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.445$ S/m; $\epsilon_r = 41.244$; $\rho = 1000$ kg/m³

Ambient Temperature: 21.5 °C; Liquid Temperature: 21.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.85, 7.30, 7.51) @ 1900 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (6x8x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 11.7 W/kg

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

Reference Value = 110.7 V/m; Power Drift = -0.03 dB

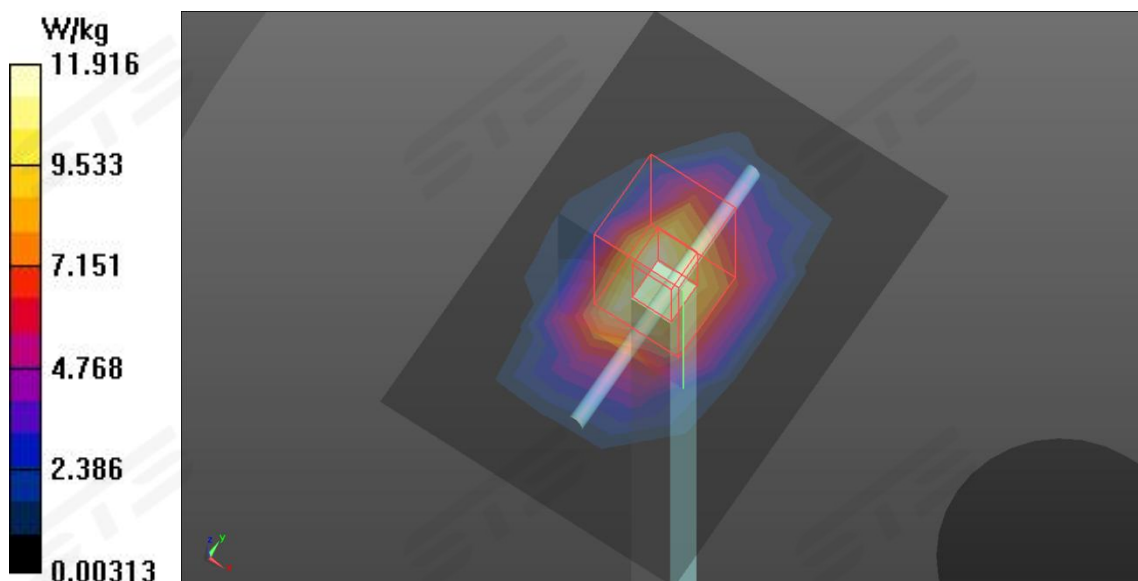
Peak SAR (extrapolated) = 18.8 W/kg

SAR(1 g) = 9.84 W/kg; SAR(10 g) = 5.12 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 52.7%

Maximum value of SAR (measured) = 15.5 W/kg





Test Laboratory: STS Lab

Date: 2025/12/9

System Check_1900Mhz_1209**DUT: Dipole 1900 MHz**

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.436$ S/m; $\epsilon_r = 41.057$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.0 °C; Liquid Temperature: 21.7 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.85, 7.30, 7.51) @ 1900 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (6x8x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 10.4 W/kg

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

Reference Value = 112.1 V/m; Power Drift = -0.05 dB

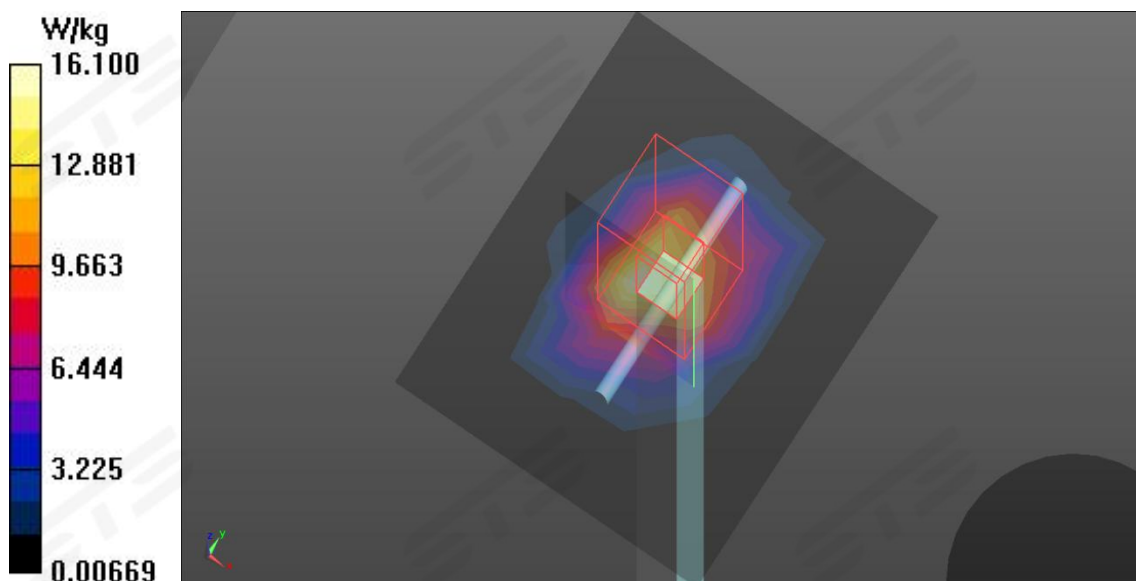
Peak SAR (extrapolated) = 20.2 W/kg

SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.23 W/kg

Smallest distance from peaks to all points 3 dB below = 19.6 mm

Ratio of SAR at M2 to SAR at M1 = 51.1%

Maximum value of SAR (measured) = 16.5 W/kg



Test Laboratory: STS Lab

Date: 2025/12/16

System Check_2450Mhz_1216**DUT: Dipole 2450 MHz**

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

Medium parameters used (interpolated): $f = 2450$ MHz; $\sigma = 1.84$ S/m; $\epsilon_r = 40.442$; $\rho = 1000$ kg/m³

Ambient Temperature: 20.9 °C; Liquid Temperature: 20.6 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.30, 6.71, 6.90) @ 2450 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (6x7x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 16.1 W/kg

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

Reference Value = 112.5 V/m; Power Drift = 0.07 dB

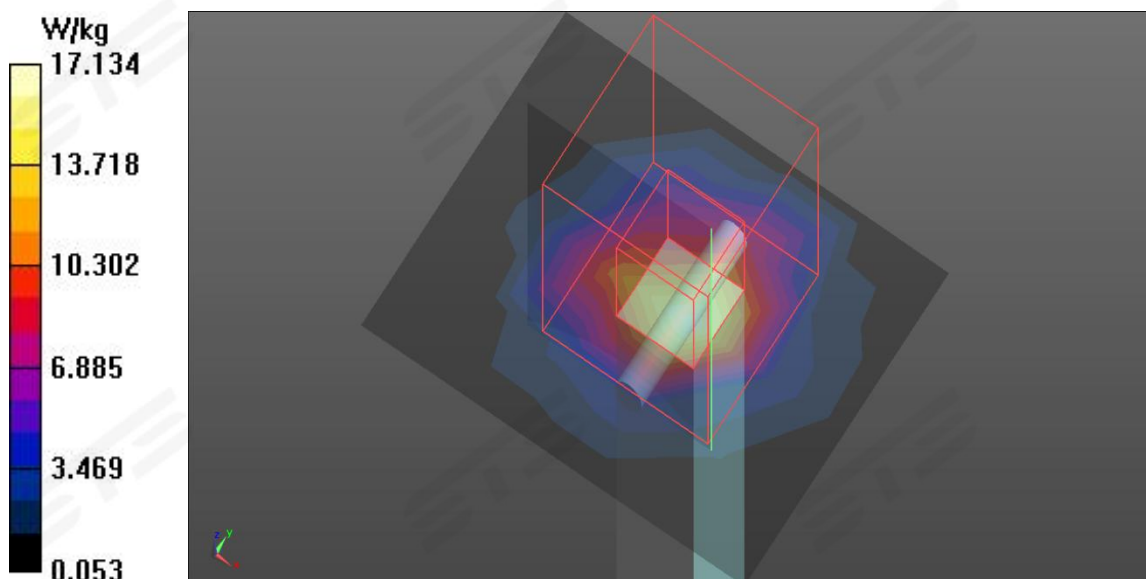
Peak SAR (extrapolated) = 28.5 W/kg

SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.03 W/kg

Smallest distance from peaks to all points 3 dB below = 10.8 mm

Ratio of SAR at M2 to SAR at M1 = 46.6%

Maximum value of SAR (measured) = 22.7 W/kg





Test Laboratory: STS Lab

Date: 2025/12/16

System Check_2600Mhz_1216**DUT: Dipole 2600 MHz**

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.964$ S/m; $\epsilon_r = 40.214$; $\rho = 1000$ kg/m³

Ambient Temperature: 20.9 °C; Liquid Temperature: 20.6 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.14, 6.54, 6.73) @ 2600 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (6x7x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 16.0 W/kg

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

Reference Value = 113.2 V/m; Power Drift = 0.05 dB

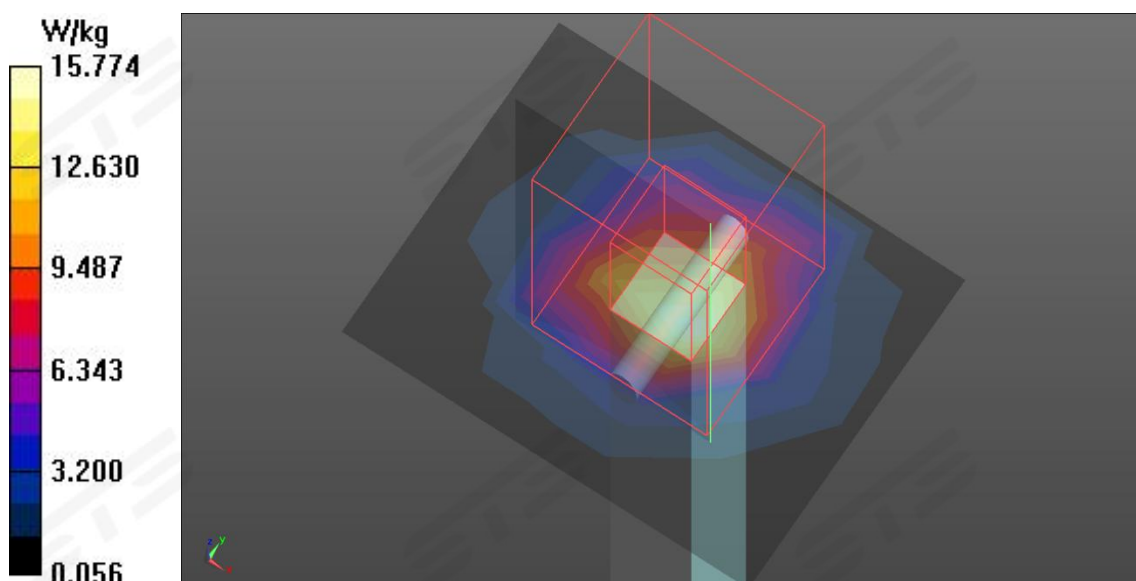
Peak SAR (extrapolated) = 28.9 W/kg

SAR(1 g) = 14 W/kg; SAR(10 g) = 6.03 W/kg

Smallest distance from peaks to all points 3 dB below = 12.3 mm

Ratio of SAR at M2 to SAR at M1 = 48.9%

Maximum value of SAR (measured) = 23.2 W/kg





Test Laboratory: STS Lab

Date: 2025/12/17

System Check_5200Mhz_1217**DUT: Dipole D5GHzV2**

Communication System: UID 0, CW (0); Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5200$ MHz; $\sigma = 4.602$ S/m; $\epsilon_r = 35.668$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.7 °C; Liquid Temperature: 23.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(4.96, 5.28, 5.44) @ 5200 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (6x5x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 3.35 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 19.63 V/m; Power Drift = -0.07 dB

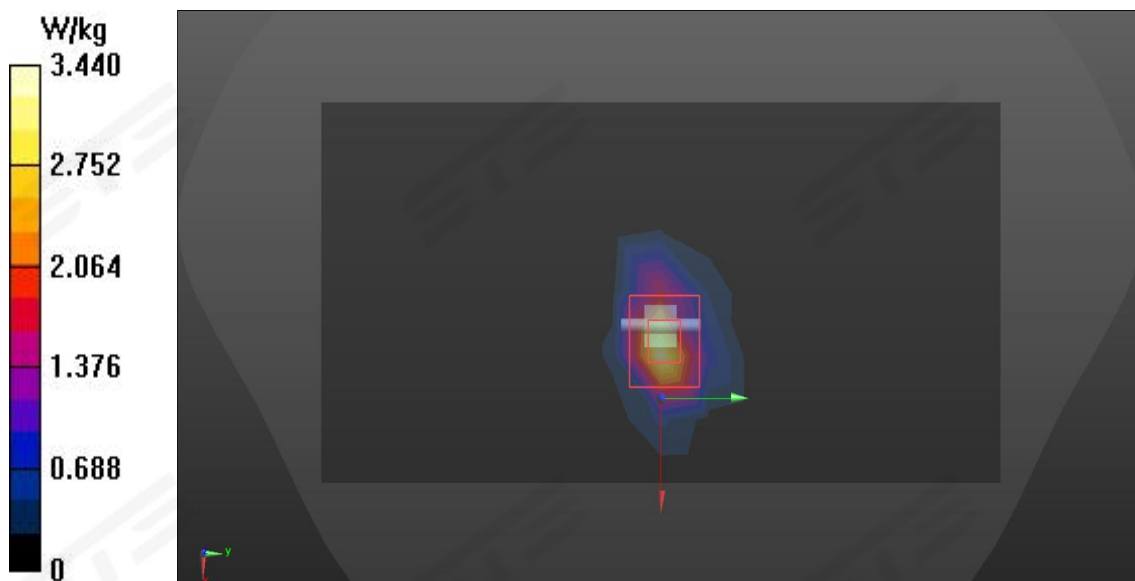
Peak SAR (extrapolated) = 7.17 W/kg

SAR(1 g) = 1.62 W/kg; SAR(10 g) = 0.563 W/kg

Smallest distance from peaks to all points 3 dB below = 17.5 mm

Ratio of SAR at M2 to SAR at M1 = 53.3%

Maximum value of SAR (measured) = 3.44 W/kg





Test Laboratory: STS Lab

Date: 2025/12/17

System Check_5800Mhz_1217**DUT: Dipole D5GHzV2**

Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5800$ MHz; $\sigma = 5.323$ S/m; $\epsilon_r = 34.33$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.7 °C; Liquid Temperature: 23.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(4.59, 4.89, 5.03) @ 5800 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (6x5x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 3.55 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 27.25 V/m; Power Drift = 0.03 dB

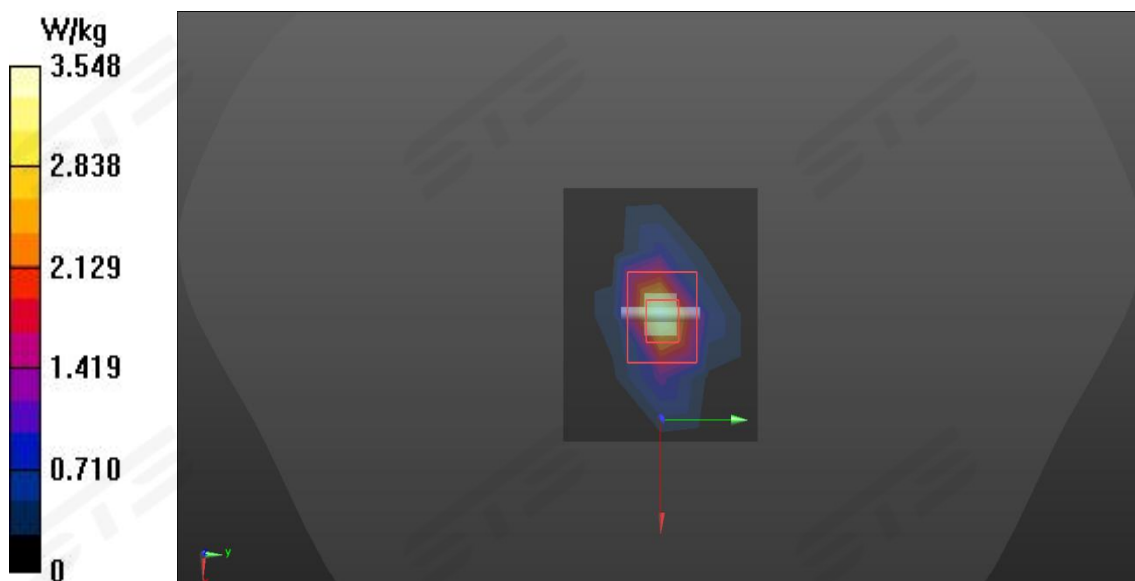
Peak SAR (extrapolated) = 8.05 W/kg

SAR(1 g) = 1.89 W/kg; SAR(10 g) = 0.648 W/kg

Smallest distance from peaks to all points 3 dB below = 16.8 mm

Ratio of SAR at M2 to SAR at M1 = 48.2%

Maximum value of SAR (measured) = 3.40 W/kg



Appendix B. SAR Test Plots

Test Laboratory: STS Lab

Date: 2025/12/2

G03_GSM 850_GSM_CH190_Left Cheek_Main_SIM1**DUT: Smart Phone;**

Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used : $f = 836.6$ MHz; $\sigma = 0.923$ S/m; $\epsilon_r = 42.139$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C; Liquid Temperature: 22.0 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(8.20, 8.73, 8.98) @ 836.6 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.0325 W/kg

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

Reference Value = 1.418 V/m; Power Drift = 0.07 dB

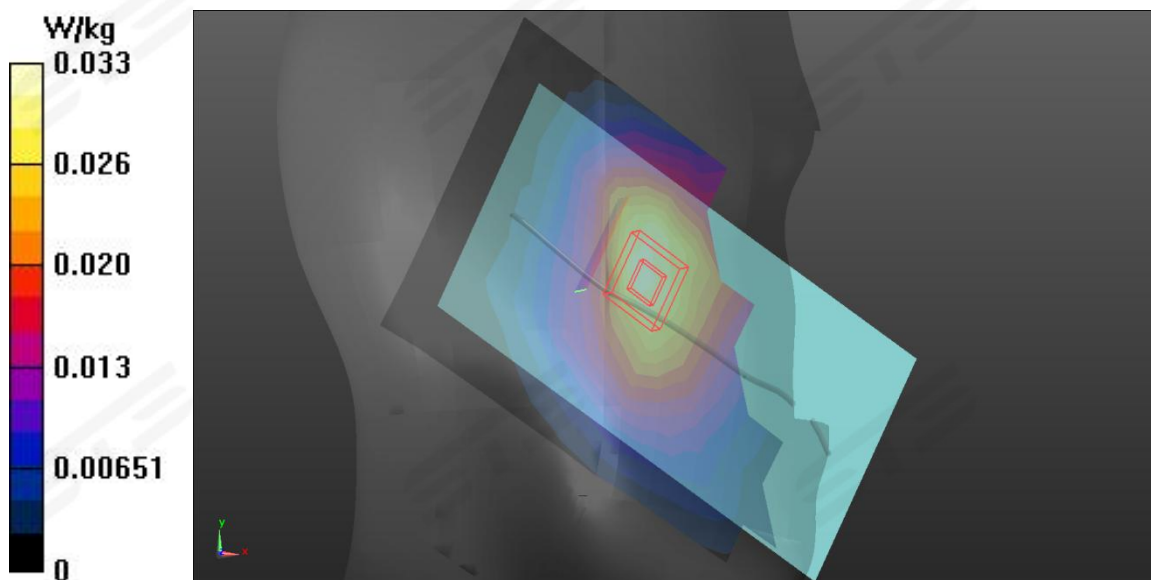
Peak SAR (extrapolated) = 0.0370 W/kg

SAR(1 g) = 0.026 W/kg; SAR(10 g) = 0.020 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 74.3%

Maximum value of SAR (measured) = 0.0319 W/kg





Test Laboratory: STS Lab

Date: 2025/12/8

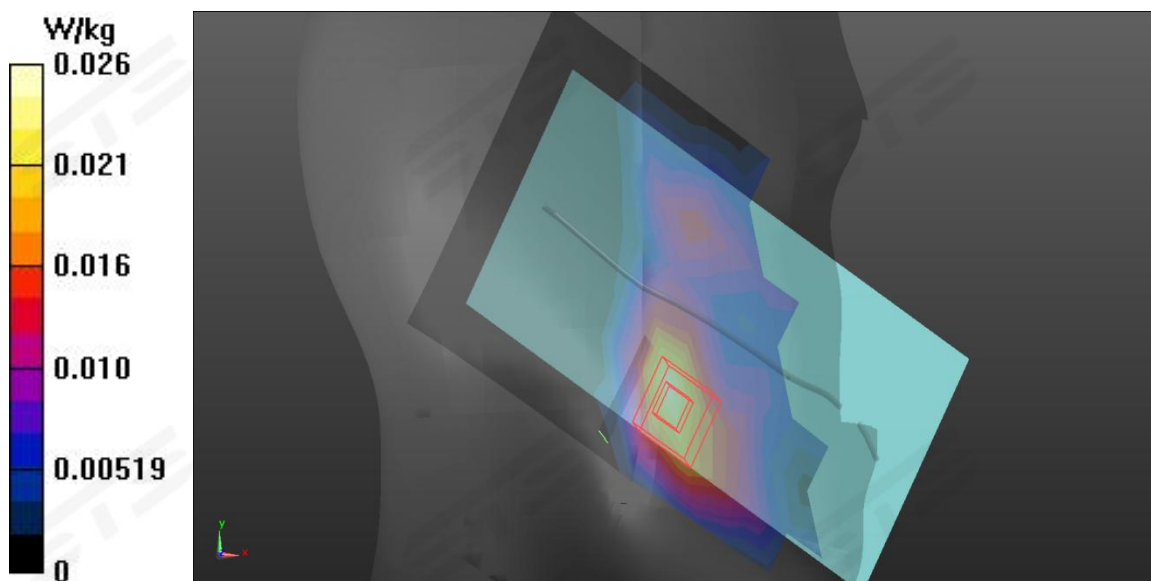
G11_GSM 1900_GPRS 2Tx_CH661_Left Cheek_Main_SIM1**DUT: Smart Phone;**

Communication System: UID 0, GPRS 2Tx (0); Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used : $f = 1880 \text{ MHz}$; $\sigma = 1.432 \text{ S/m}$; $\epsilon_r = 41.275$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature: $21.5 \text{ }^\circ\text{C}$; Liquid Temperature: $21.3 \text{ }^\circ\text{C}$

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.85, 7.30, 7.51) @ 1880 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.0260 W/kg **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 0.4280 V/m ; Power Drift = -0.09 dB Peak SAR (extrapolated) = 0.0330 W/kg **SAR(1 g) = 0.019 W/kg ; SAR(10 g) = 0.011 W/kg** Smallest distance from peaks to all points 3 dB below = 14.6 mm Ratio of SAR at M2 to SAR at M1 = 59.6% Maximum value of SAR (measured) = 0.0277 W/kg 



Test Laboratory: STS Lab

Date: 2025/12/8

U05_UMTS B2_RMC12.2K_CH9262_Left Cheek_Main_SIM1**DUT: Smart Phone;**

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used : $f = 1852.4$ MHz; $\sigma = 1.415$ S/m; $\epsilon_r = 41.318$; $\rho = 1000$ kg/m³

Ambient Temperature: 21.5 °C; Liquid Temperature: 21.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.85, 7.30, 7.51) @ 1852.4 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.0571 W/kg

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

Reference Value = 1.492 V/m; Power Drift = 0.04 dB

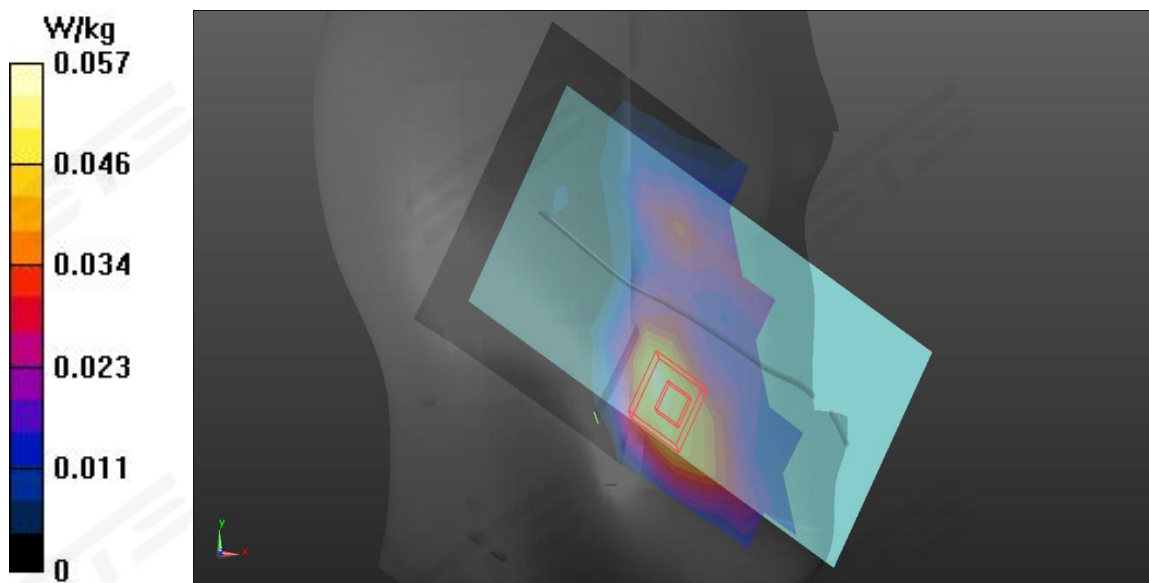
Peak SAR (extrapolated) = 0.0820 W/kg

SAR(1 g) = 0.049 W/kg; SAR(10 g) = 0.029 W/kg

Smallest distance from peaks to all points 3 dB below = 17.6 mm

Ratio of SAR at M2 to SAR at M1 = 60.9%

Maximum value of SAR (measured) = 0.0680 W/kg





Test Laboratory: STS Lab

Date: 2025/12/2

U19_UMTS B5_RMC12.2K_CH4182_Left Cheek_Main_SIM1**DUT: Smart Phone;**

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used : $f = 836.4$ MHz; $\sigma = 0.921$ S/m; $\epsilon_r = 42.142$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3°C; Liquid Temperature: 22.0 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(8.20, 8.73, 8.98) @ 836.4 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.0197 W/kg

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

Reference Value = 0.1470 V/m; Power Drift = 0.01 dB

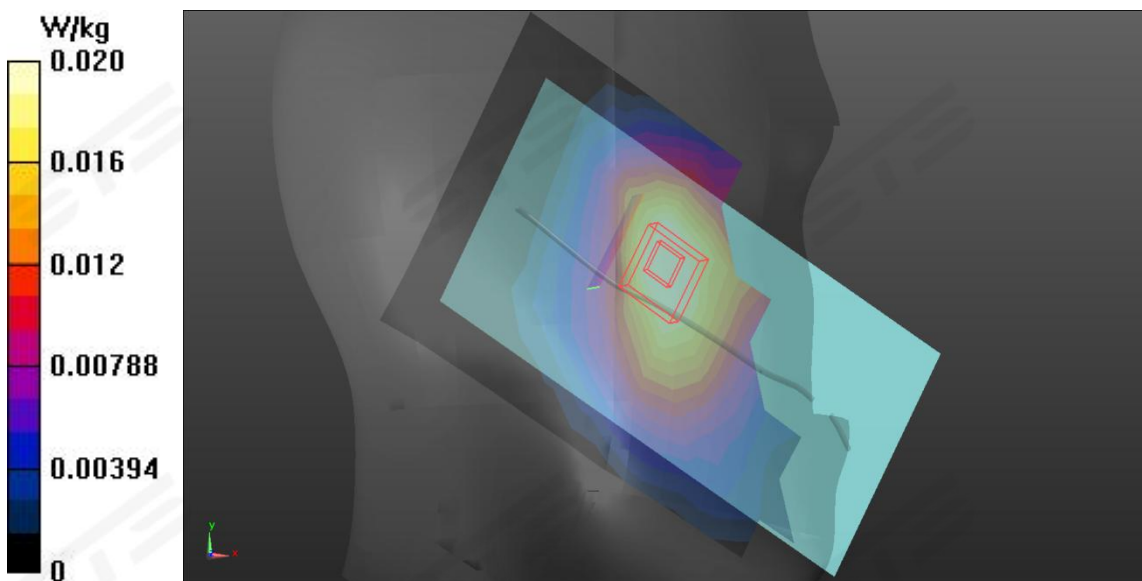
Peak SAR (extrapolated) = 0.0240 W/kg

SAR(1 g) = 0.017 W/kg; SAR(10 g) = 0.013 W/kg

Smallest distance from peaks to all points 3 dB below = 14.3 mm

Ratio of SAR at M2 to SAR at M1 = 75.6%

Maximum value of SAR (measured) = 0.0214 W/kg





Test Laboratory: STS Lab

Date: 2025/12/8

L03_LTE B2_QPSK20M_CH18900_1RB offset 0_Left Cheek_Main_SIM1**DUT: Smart Phone;**

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1880 MHz;
Duty Cycle: 1:1

Medium parameters used : $f = 1880$ MHz; $\sigma = 1.432$ S/m; $\epsilon_r = 41.275$; $\rho = 1000$ kg/m³

Ambient Temperature: 21.5 °C; Liquid Temperature: 21.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.85, 7.30, 7.51) @ 1880 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.0641 W/kg

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

Reference Value = 0.2370 V/m; Power Drift = 0.09 dB

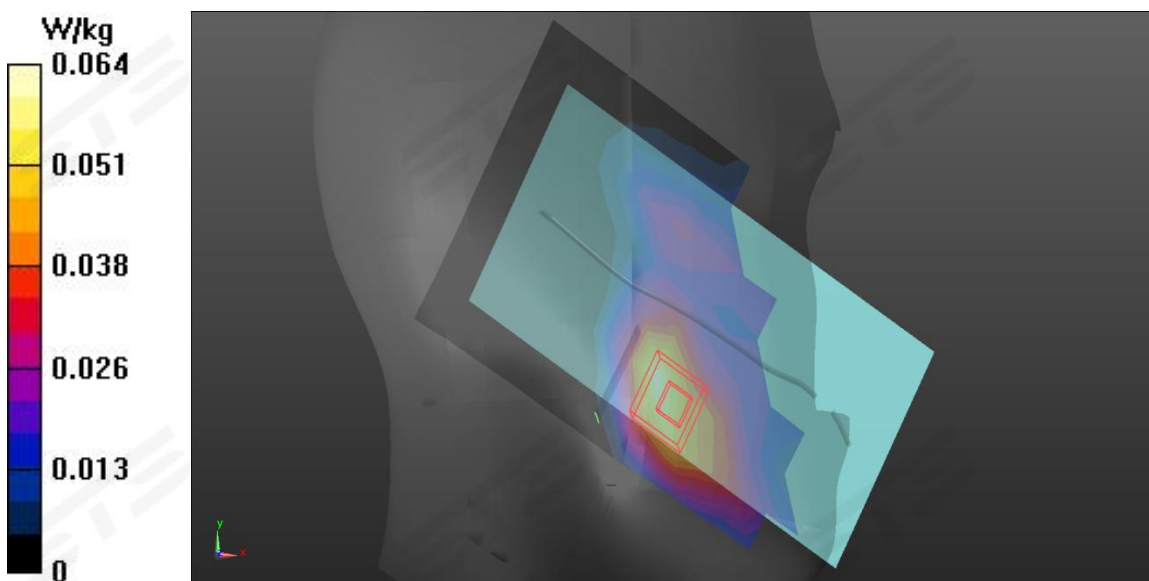
Peak SAR (extrapolated) = 0.0850 W/kg

SAR(1 g) = 0.050 W/kg; SAR(10 g) = 0.0295 W/kg

Smallest distance from peaks to all points 3 dB below = 17.7 mm

Ratio of SAR at M2 to SAR at M1 = 60.5%

Maximum value of SAR (measured) = 0.0701 W/kg





Test Laboratory: STS Lab

Date: 2025/12/7

L22_LTE B4_QPSK20M_CH20300_1RB offset 99_Left Cheek_Main_SIM1**DUT: Smart Phone;**

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1745 MHz;
Duty Cycle: 1:1

Medium parameters used : $f = 1745$ MHz; $\sigma = 1.371$ S/m; $\epsilon_r = 41.498$; $\rho = 1000$ kg/m³

Ambient Temperature: 20.8 °C; Liquid Temperature: 20.6 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(7.06, 7.52, 7.74) @ 1745 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.0642 W/kg

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

Reference Value = 2.116 V/m; Power Drift = 0.06 dB

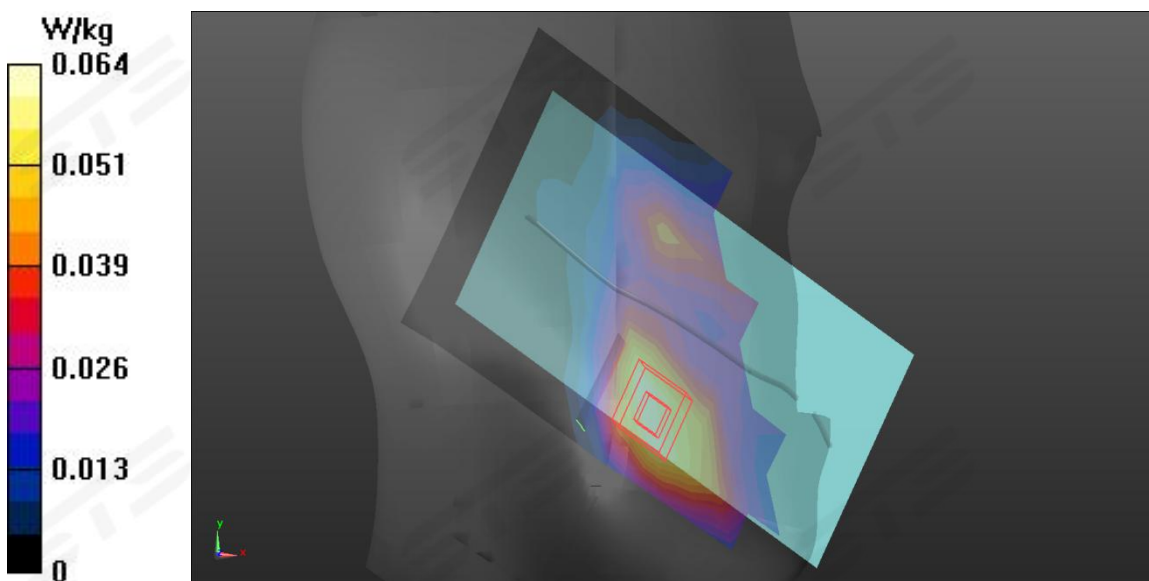
Peak SAR (extrapolated) = 0.0960 W/kg

SAR(1 g) = 0.056 W/kg; SAR(10 g) = 0.035 W/kg

Smallest distance from peaks to all points 3 dB below = 13.5 mm

Ratio of SAR at M2 to SAR at M1 = 60.6%

Maximum value of SAR (measured) = 0.0819 W/kg





Test Laboratory: STS Lab

Date: 2025/12/2

L27_LTE B5_QPSK10M_CH20525_1RB offset 0_Left Cheek_Main_SIM1**DUT: Smart Phone;**

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 836.5 MHz;
Duty Cycle: 1:1

Medium parameters used : $f = 836.5$ MHz; $\sigma = 0.922$ S/m; $\epsilon_r = 42.141$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3°C; Liquid Temperature: 22.0 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(8.20, 8.73, 8.98) @ 836.5 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.0180 W/kg

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

Reference Value = 1.463 V/m; Power Drift = -0.08 dB

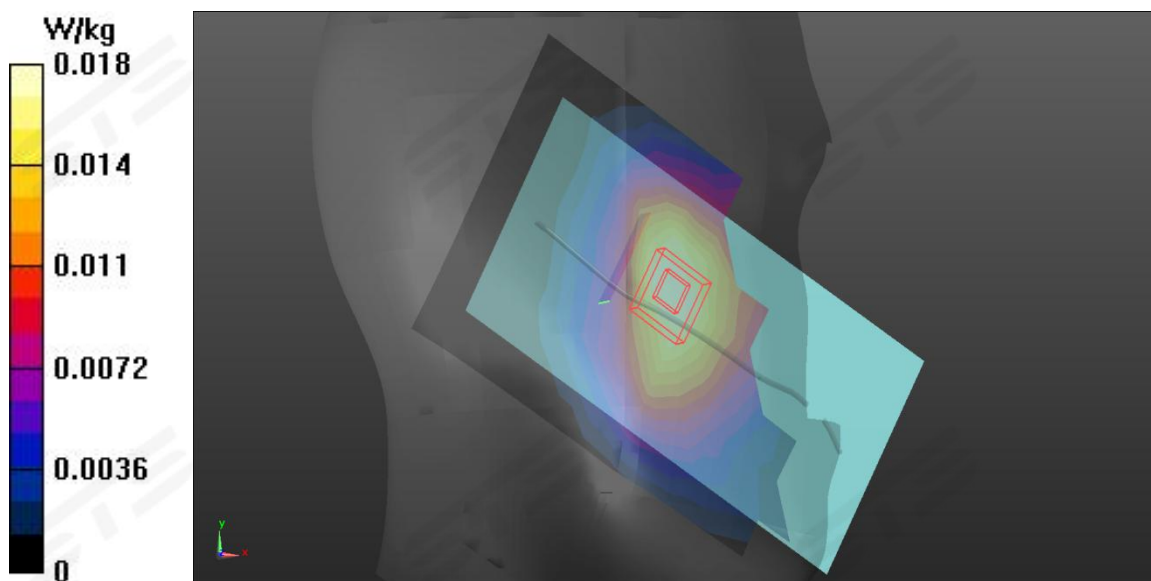
Peak SAR (extrapolated) = 0.0210 W/kg

SAR(1 g) = 0.015 W/kg; SAR(10 g) = 0.011 W/kg

Smallest distance from peaks to all points 3 dB below = 17.6 mm

Ratio of SAR at M2 to SAR at M1 = 76.6%

Maximum value of SAR (measured) = 0.0187 W/kg





Test Laboratory: STS Lab

Date: 2025/12/16

L45_LTE B7_QPSK20M_CH20850_1RB offset 0_Left Cheek_Main_SIM1**DUT: Smart Phone;**

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2510 MHz;
Duty Cycle: 1:1

Medium parameters used : $f = 2510$ MHz; $\sigma = 1.893$ S/m; $\epsilon_r = 40.395$; $\rho = 1000$ kg/m³

Ambient Temperature: 20.9 °C; Liquid Temperature: 20.6 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.14, 6.54, 6.73) @ 2510 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.0442 W/kg

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

Reference Value = 0.5290 V/m; Power Drift = 0.03 dB

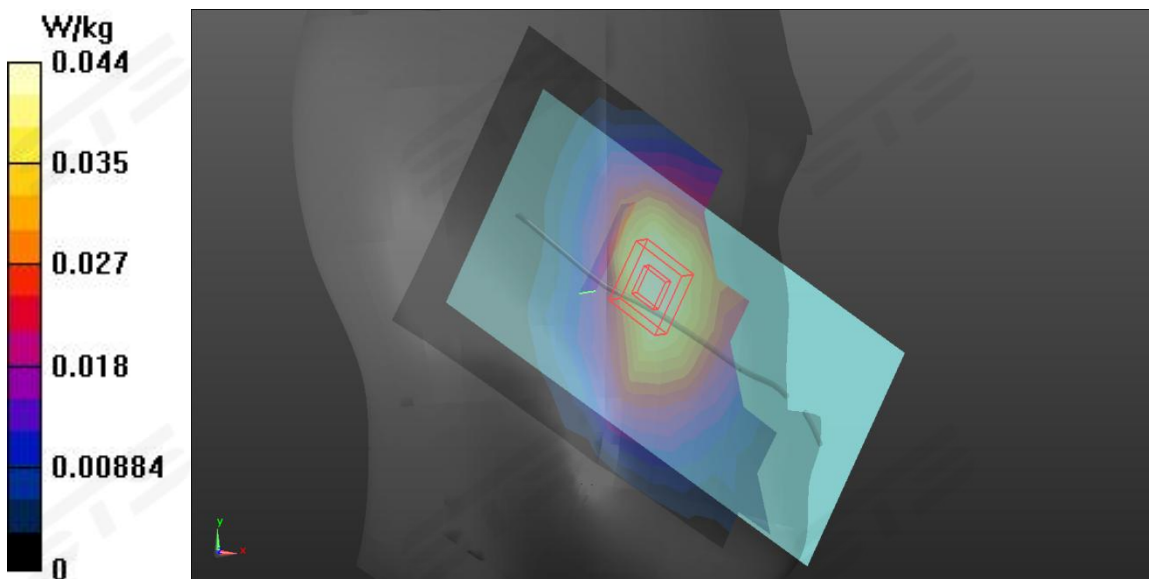
Peak SAR (extrapolated) = 0.0530 W/kg

SAR(1 g) = 0.039 W/kg; SAR(10 g) = 0.029 W/kg

Smallest distance from peaks to all points 3 dB below = 17.3 mm

Ratio of SAR at M2 to SAR at M1 = 75.6%

Maximum value of SAR (measured) = 0.0478 W/kg





Test Laboratory: STS Lab

Date: 2025/12/10

L51_LTE B12_QPSK10M_CH23095_1RB offset 0_Left Cheek_Main_SIM1**DUT: Smart Phone;**

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 707.5 MHz;
Duty Cycle: 1:1

Medium parameters used : $f = 707.5$ MHz; $\sigma = 0.871$ S/m; $\epsilon_r = 42.662$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6 °C; Liquid Temperature: 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(10.25, 10.25, 10.25) @ 707.5 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.0193 W/kg

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

Reference Value = 0.1810 V/m; Power Drift = 0.07 dB

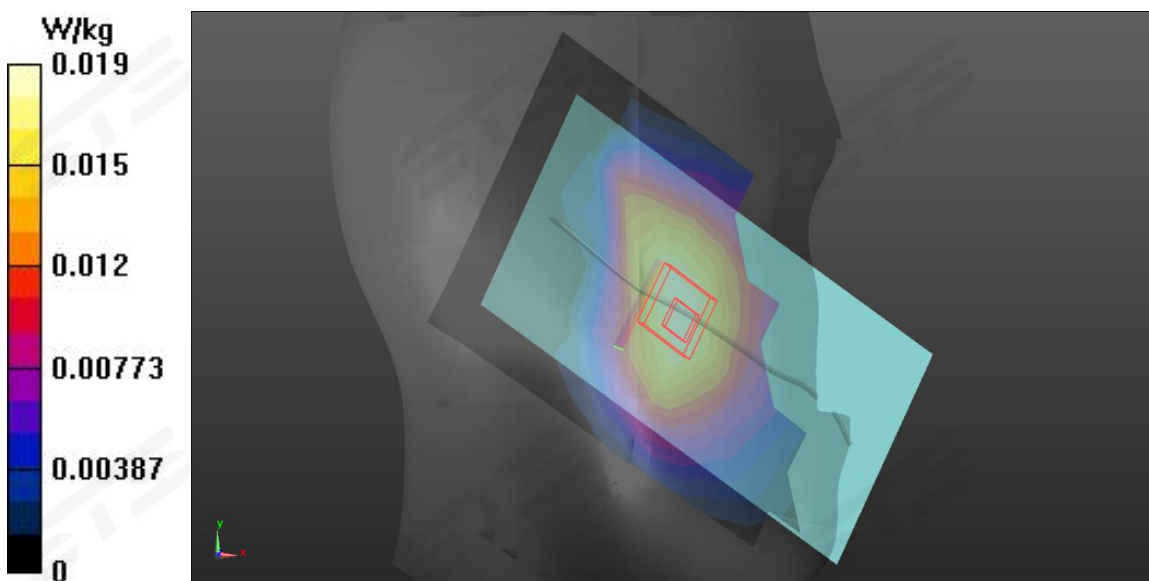
Peak SAR (extrapolated) = 0.0210 W/kg

SAR(1 g) = 0.016 W/kg; SAR(10 g) = 0.013 W/kg

Smallest distance from peaks to all points 3 dB below = 14.9 mm

Ratio of SAR at M2 to SAR at M1 = 77.1%

Maximum value of SAR (measured) = 0.0191 W/kg





Test Laboratory: STS Lab

Date: 2025/12/10

L63_LTE B17_QPSK10M_CH23790_1RB offset 0_Left Cheek_Main_SIM1**DUT: Smart Phone;**

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 710 MHz;
Duty Cycle: 1:1

Medium parameters used : $f = 710 \text{ MHz}$; $\sigma = 0.872 \text{ S/m}$; $\epsilon_r = 42.651$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: $22.6 \text{ }^\circ\text{C}$; Liquid Temperature: $22.3 \text{ }^\circ\text{C}$

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(10.25, 10.25, 10.25) @ 710 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.0178 W/kg

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

Reference Value = 0 V/m ; Power Drift = 0.09 dB

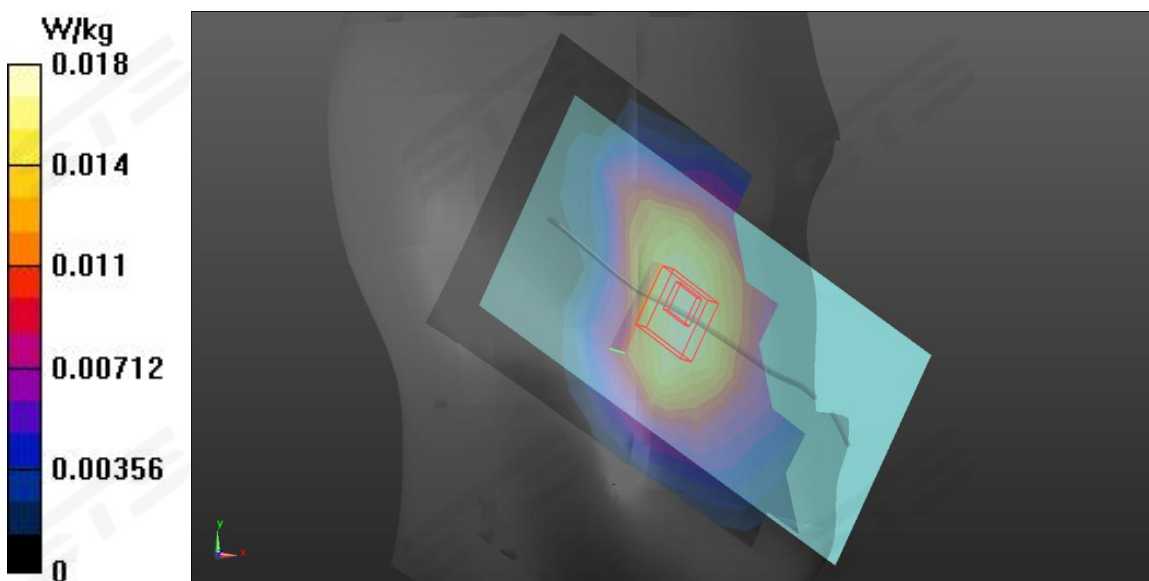
Peak SAR (extrapolated) = 0.0200 W/kg

SAR(1 g) = 0.015 W/kg ; SAR(10 g) = 0.012 W/kg

Smallest distance from peaks to all points 3 dB below = 18.8 mm

Ratio of SAR at M2 to SAR at M1 = 78.8%

Maximum value of SAR (measured) = 0.0179 W/kg





Test Laboratory: STS Lab

Date: 2025/12/8

L75_LTE B25_QPSK20M_CH26365_1RB offset 0_Left Cheek_Main_SIM1**DUT: Smart Phone;**

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium parameters used : $f = 1882.5$ MHz; $\sigma = 1.435$ S/m; $\epsilon_r = 41.264$; $\rho = 1000$ kg/m³

Ambient Temperature: 21.5 °C; Liquid Temperature: 21.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.85, 7.30, 7.51) @ 1882.5 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.0539 W/kg

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

Reference Value = 0 V/m; Power Drift = 0.01 dB

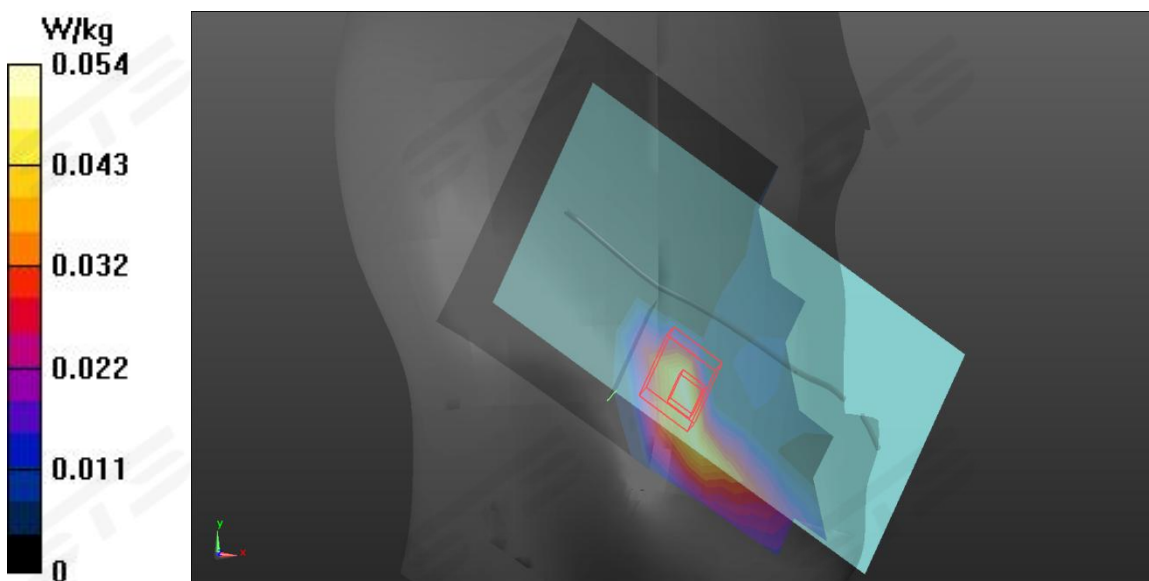
Peak SAR (extrapolated) = 0.0500 W/kg

SAR(1 g) = 0.031 W/kg; SAR(10 g) = 0.018 W/kg

Smallest distance from peaks to all points 3 dB below = 15.7 mm

Ratio of SAR at M2 to SAR at M1 = 61.3%

Maximum value of SAR (measured) = 0.0426 W/kg





Test Laboratory: STS Lab

Date: 2025/12/7

L87_LTE B66_QPSK20M_CH132322_1RB offset 99_Left Cheek_Main_SIM1**DUT: Smart Phone;**

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1745 MHz;
Duty Cycle: 1:1

Medium parameters used : $f = 1745$ MHz; $\sigma = 1.371$ S/m; $\epsilon_r = 41.498$; $\rho = 1000$ kg/m³

Ambient Temperature: 20.8 °C; Liquid Temperature: 20.6 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(7.06, 7.52, 7.74) @ 1745 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.0521 W/kg

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

Reference Value = 0.9580 V/m; Power Drift = 0.03 dB

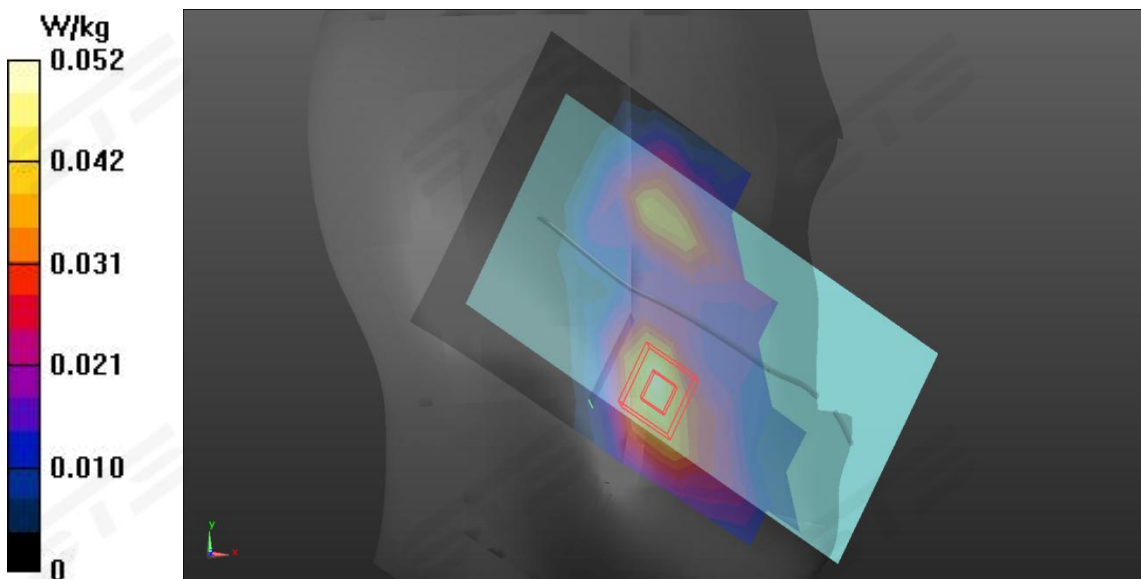
Peak SAR (extrapolated) = 0.0650 W/kg

SAR(1 g) = 0.041 W/kg; SAR(10 g) = 0.025 W/kg

Smallest distance from peaks to all points 3 dB below = 15.6 mm

Ratio of SAR at M2 to SAR at M1 = 63.8%

Maximum value of SAR (measured) = 0.0557 W/kg





Test Laboratory: STS Lab

Date: 2025/12/16

W03_802.11n HT40_CH6_Left Cheek_WIFI**DUT: Smart Phone;**

Communication System: UID 10599 - AAB, IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle);

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used : $f = 2437$ MHz; $\sigma = 1.837$ S/m; $\epsilon_r = 40.614$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.30, 6.71, 6.90) @ 2437 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.642 W/kg

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

Reference Value = 6.479 V/m; Power Drift = 0.01 dB

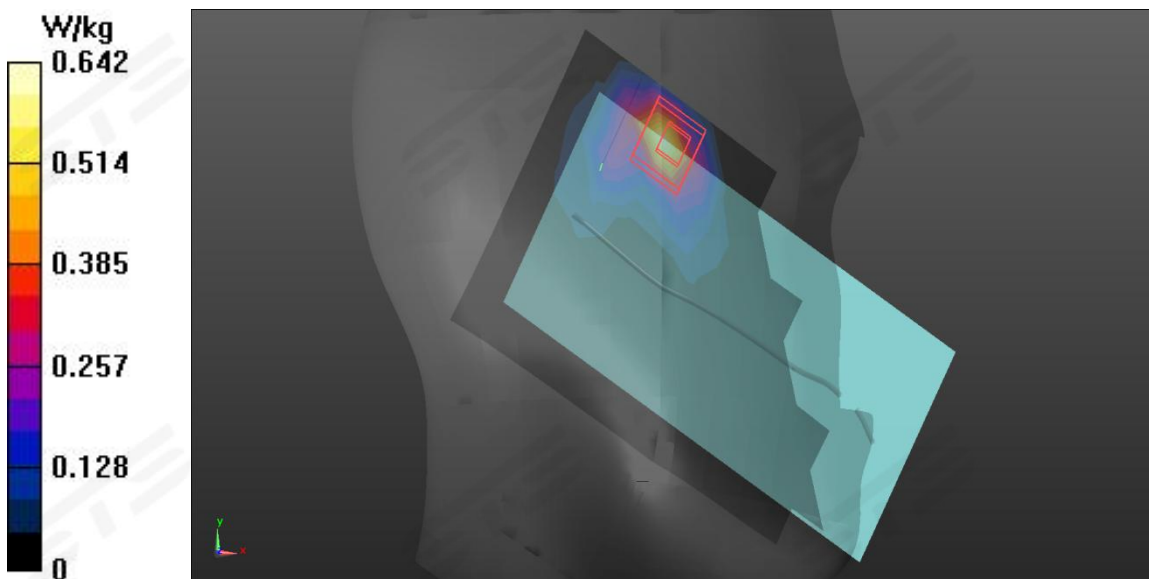
Peak SAR (extrapolated) = 0.842 W/kg

SAR(1 g) = 0.360 W/kg; SAR(10 g) = 0.154 W/kg

Smallest distance from peaks to all points 3 dB below = 16.4 mm

Ratio of SAR at M2 to SAR at M1 = 42.5%

Maximum value of SAR (measured) = 0.666 W/kg





Test Laboratory: STS Lab

Date: 2025/12/17

W10_802.11a_CH36_Left Cheek_WIFI**DUT: Smart Phone;**

Communication System: UID 10317 - AAC, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle);

Frequency: 5180 MHz; Duty Cycle: 1:1

Medium parameters used : $f = 5180$ MHz; $\sigma = 4.571$ S/m; $\epsilon_r = 35.724$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.7 °C; Liquid Temperature: 23.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(4.96, 5.28, 5.44) @ 5180 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.07 W/kg

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

Reference Value = 6.853 V/m; Power Drift = -0.06 dB

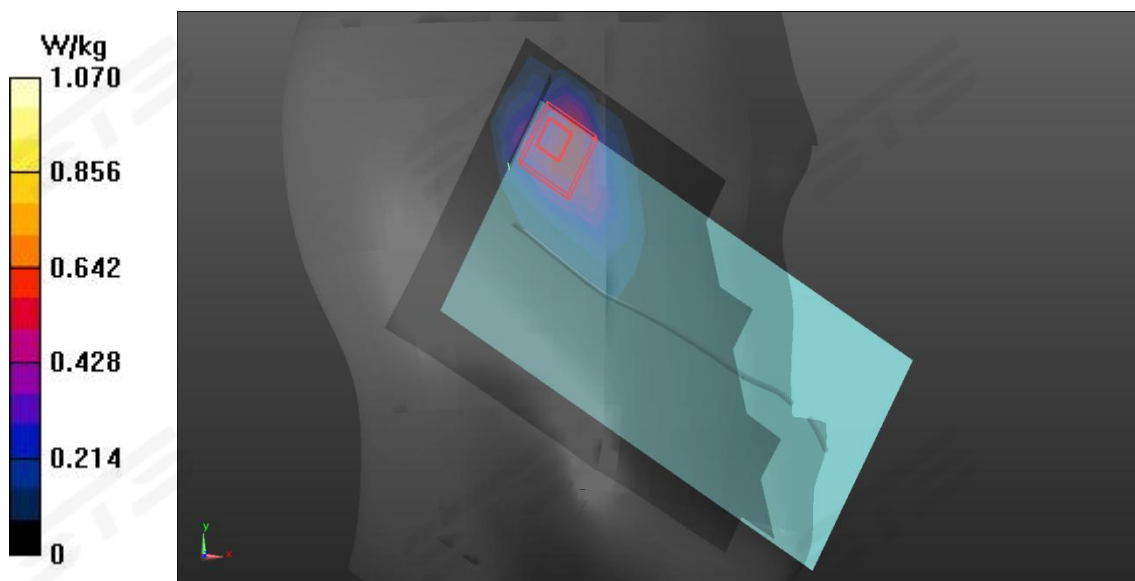
Peak SAR (extrapolated) = 4.34 W/kg

SAR(1 g) = 0.497 W/kg; SAR(10 g) = 0.351 W/kg

Smallest distance from peaks to all points 3 dB below = 18 mm

Ratio of SAR at M2 to SAR at M1 = 33.8%

Maximum value of SAR (measured) = 1.36 W/kg





Test Laboratory: STS Lab

Date: 2025/12/17

W17_802.11ac VHT40_CH159_Left Cheek_WIFI**DUT: Smart Phone;**

Communication System: UID 10616 - AAB, IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle); Frequency: 5795 MHz; Duty Cycle: 1:1

Medium parameters used : $f = 5795$ MHz; $\sigma = 5.318$ S/m; $\epsilon_r = 34.648$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(4.59, 4.89, 5.03) @ 5795 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.423 W/kg

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

Reference Value = 0 V/m; Power Drift = 0.09 dB

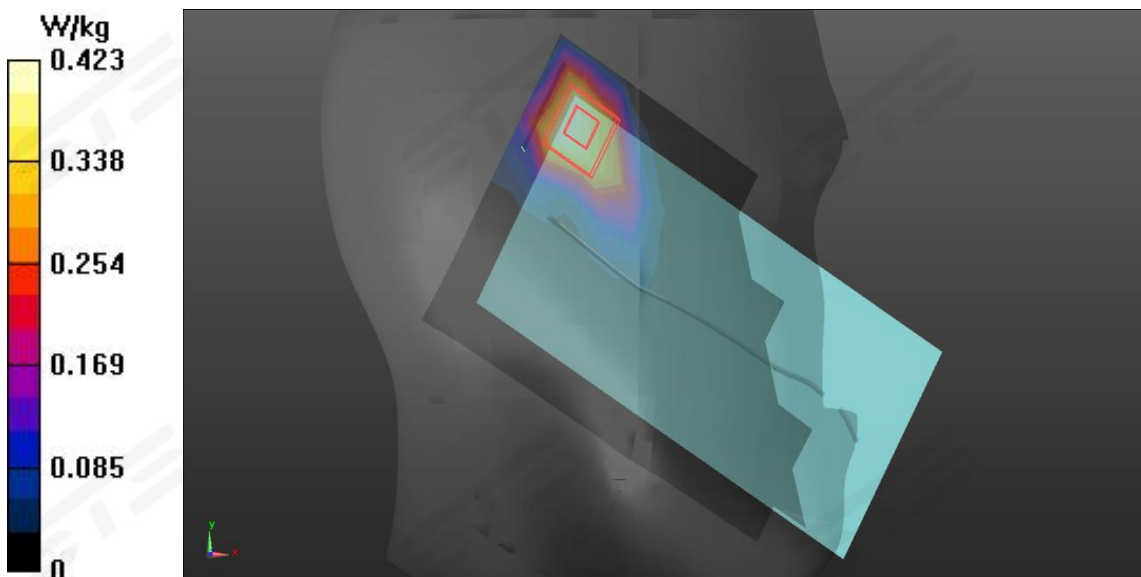
Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 0.327 W/kg; SAR(10 g) = 0.102 W/kg

Smallest distance from peaks to all points 3 dB below = 16.8 mm

Ratio of SAR at M2 to SAR at M1 = 47.4%

Maximum value of SAR (measured) = 0.847 W/kg





Test Laboratory: STS Lab

Date: 2025/12/16

B03_BT_CH0_Left Cheek_BT**DUT: Smart Phone;**

Communication System: UID 10670 - AAA, Bluetooth Low Energy; Frequency: 2402 MHz; Duty Cycle: 1:1

Medium parameters used : $f = 2402$ MHz; $\sigma = 1.811$ S/m; $\epsilon_r = 40.672$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.30, 6.71, 6.90) @ 2402 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.105 W/kg

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

Reference Value = 0 V/m; Power Drift = 0.09 dB

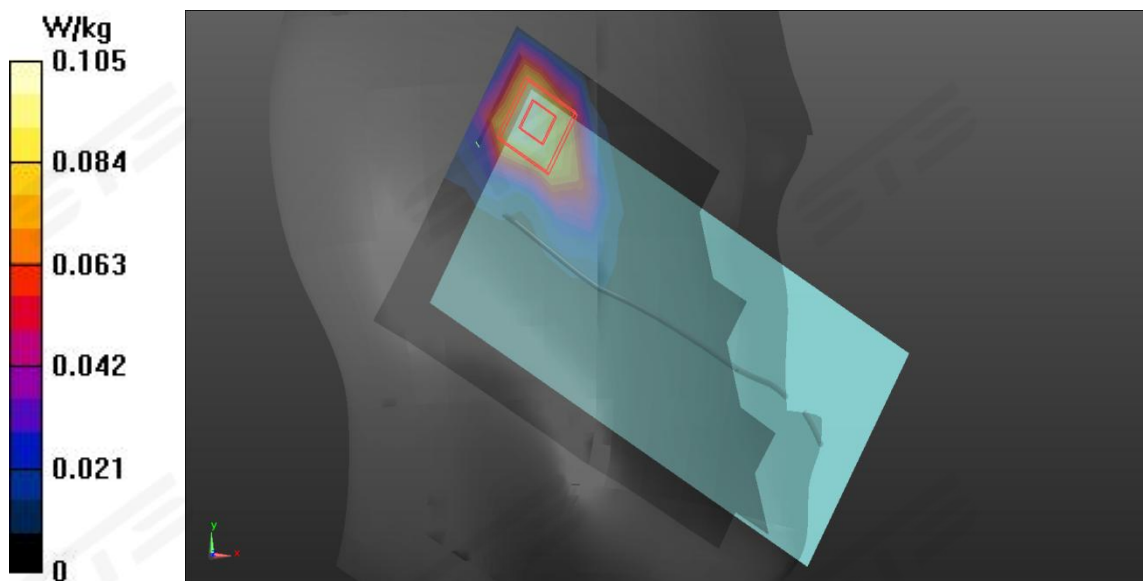
Peak SAR (extrapolated) = 0.473 W/kg

SAR(1 g) = 0.080 W/kg; SAR(10 g) = 0.025 W/kg

Smallest distance from peaks to all points 3 dB below = 16.7 mm

Ratio of SAR at M2 to SAR at M1 = 55.7%

Maximum value of SAR (measured) = 0.211 W/kg





Test Laboratory: STS Lab

Date: 2025/12/2

G24_GSM 850_GPRS 2Tx_CH190_Rear Face_0.5cm_Main_SIM1**DUT: Smart Phone;**

Communication System: UID 0, GPRS 2Tx (0); Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used : $f = 836.6$ MHz; $\sigma = 0.923$ S/m; $\epsilon_r = 42.139$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(8.20, 8.73, 8.98) @ 836.6 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.120 W/kg

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

Reference Value = 6.387 V/m; Power Drift = -0.09 dB

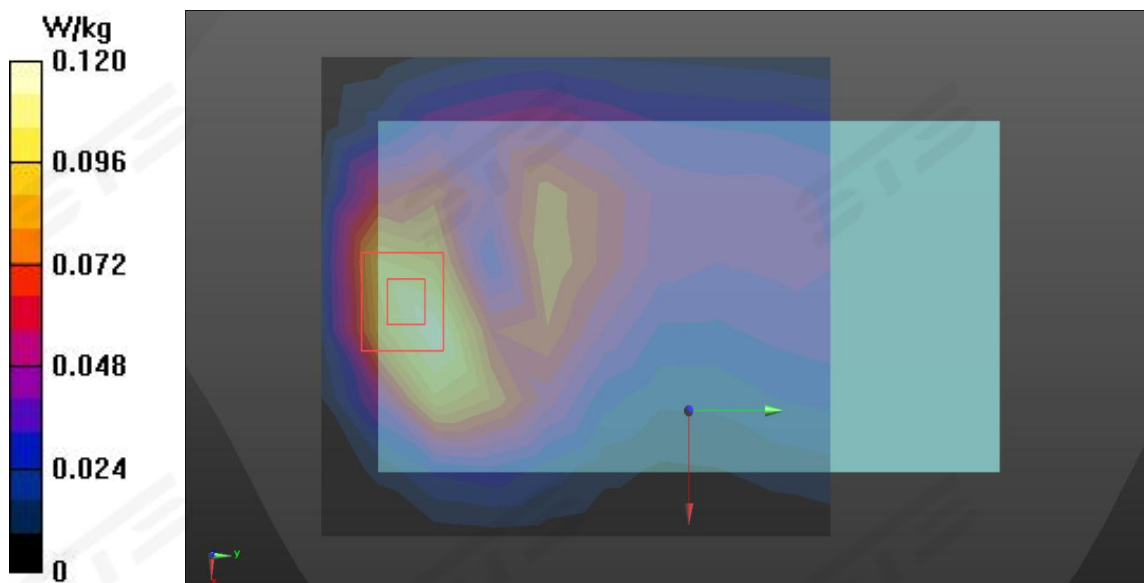
Peak SAR (extrapolated) = 0.165 W/kg

SAR(1 g) = 0.092 W/kg; SAR(10 g) = 0.052 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 56.4%

Maximum value of SAR (measured) = 0.137 W/kg





Test Laboratory: STS Lab

Date: 2025/12/8

G40_GSM 1900_GPRS 2Tx_CH661_Rear Face_0.5cm_Main_SIM1**DUT: Smart Phone;**

Communication System: UID 0, GPRS 2Tx (0); Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used : $f = 1880$ MHz; $\sigma = 1.432$ S/m; $\epsilon_r = 41.275$; $\rho = 1000$ kg/m³

Ambient Temperature: 21.5 °C; Liquid Temperature: 21.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.85, 7.30, 7.51) @ 1880 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x10x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.277 W/kg

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

Reference Value = 5.301 V/m; Power Drift = -0.03 dB

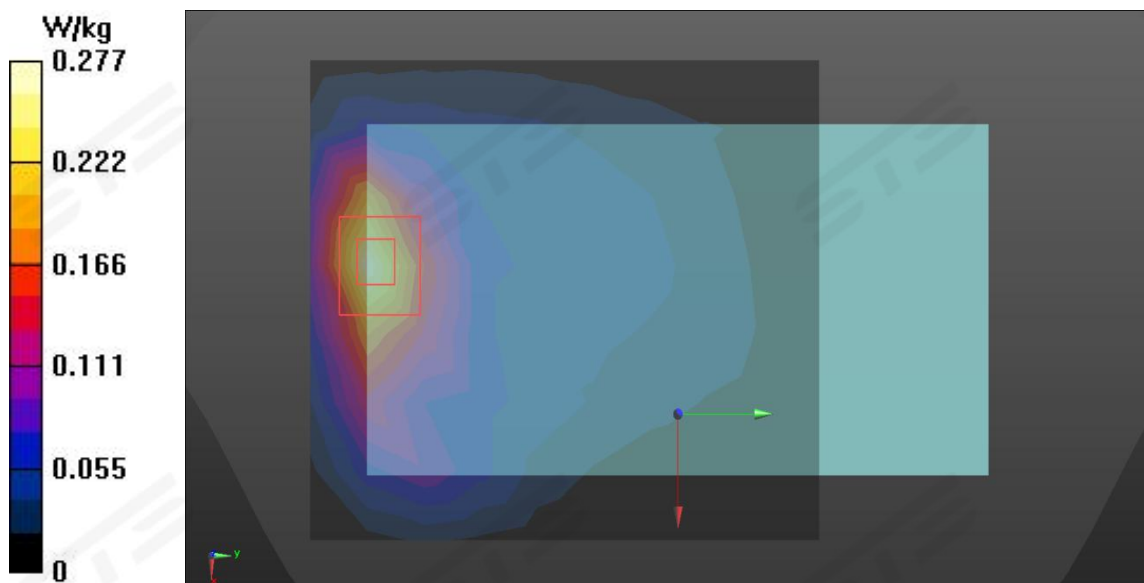
Peak SAR (extrapolated) = 0.339 W/kg

SAR(1 g) = 0.192 W/kg; SAR(10 g) = 0.106 W/kg

Smallest distance from peaks to all points 3 dB below = 12.8 mm

Ratio of SAR at M2 to SAR at M1 = 56.3%

Maximum value of SAR (measured) = 0.286 W/kg





Test Laboratory: STS Lab

Date: 2025/12/8

U32_UMTS B2_RMC12.2K_CH9400_Rear Face_0.5cm_Main_SIM1**DUT: Smart Phone;**

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used : $f = 1880$ MHz; $\sigma = 1.432$ S/m; $\epsilon_r = 41.275$; $\rho = 1000$ kg/m³

Ambient Temperature: 21.5 °C; Liquid Temperature: 21.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.85, 7.30, 7.51) @ 1880 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x10x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.417 W/kg

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

Reference Value = 8.925 V/m; Power Drift = -0.08 dB

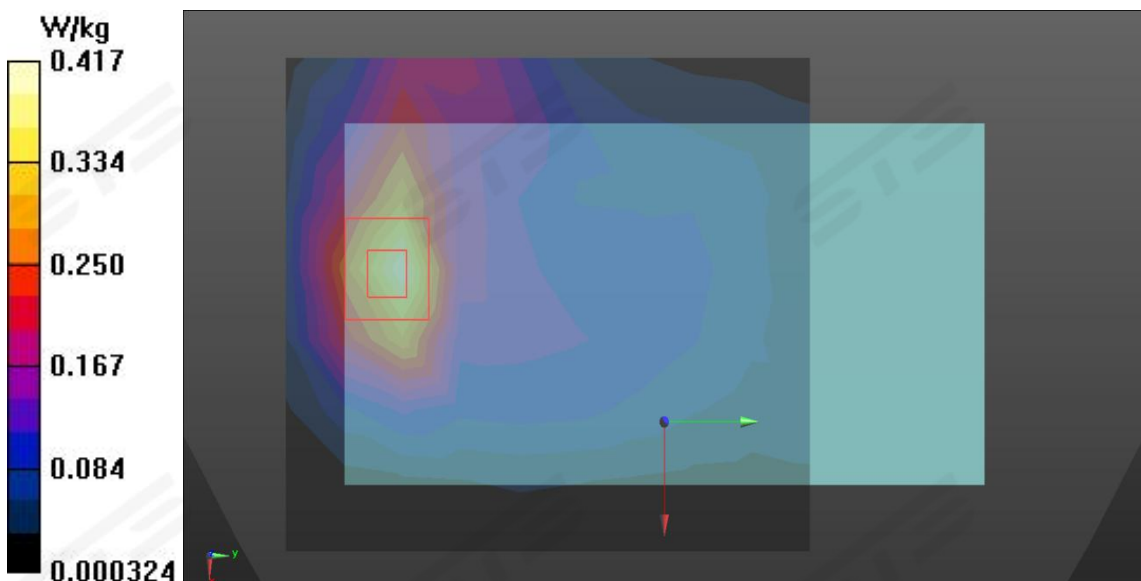
Peak SAR (extrapolated) = 0.512 W/kg

SAR(1 g) = 0.290 W/kg; SAR(10 g) = 0.162 W/kg

Smallest distance from peaks to all points 3 dB below = 12.8 mm

Ratio of SAR at M2 to SAR at M1 = 57.3%

Maximum value of SAR (measured) = 0.431 W/kg





Test Laboratory: STS Lab

Date: 2025/12/2

U64_UMTS B5_RMC12.2K_CH4182_Rear Face_0.5cm_Main_SIM1**DUT: Smart Phone;**

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used : $f = 836.4$ MHz; $\sigma = 0.921$ S/m; $\epsilon_r = 42.142$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C; Liquid Temperature: 22.0 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(8.20, 8.73, 8.98) @ 836.4 MHz; Calibrated: 2025/08/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/08/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x10x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.0579 W/kg

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

Reference Value = 4.731 V/m; Power Drift = -0.09 dB

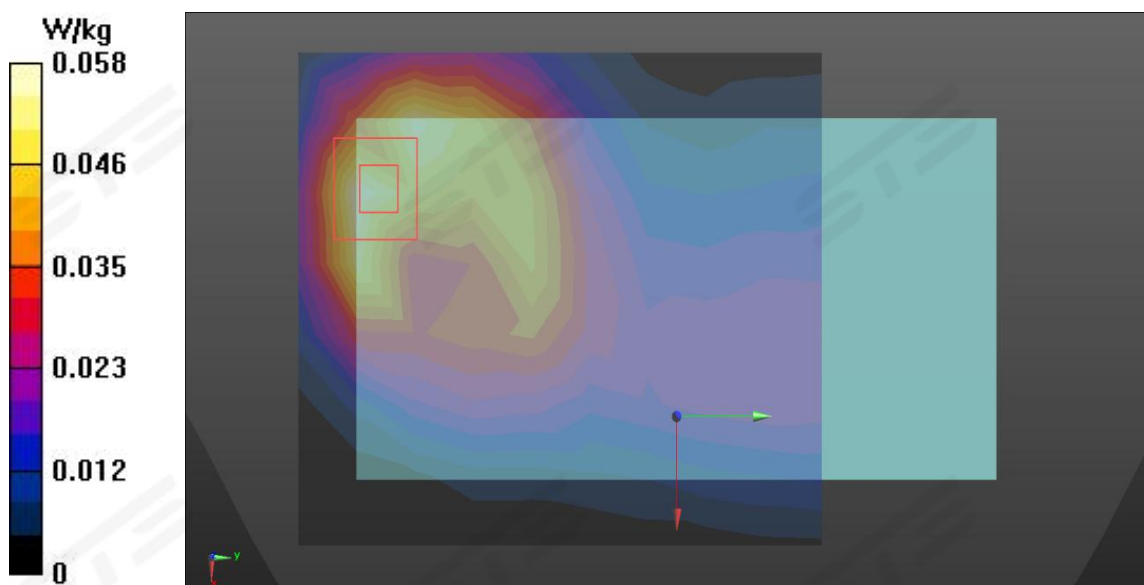
Peak SAR (extrapolated) = 0.0810 W/kg

SAR(1 g) = 0.046 W/kg; SAR(10 g) = 0.027 W/kg

Smallest distance from peaks to all points 3 dB below = 20.8 mm

Ratio of SAR at M2 to SAR at M1 = 56.9%

Maximum value of SAR (measured) = 0.0642 W/kg





Test Laboratory: STS Lab

Date: 2025/12/9

L113_LTE B2_QPSK20M_CH18900_1RB offset 0_Bottom Side_0.5cm_Main_SIM1**DUT: Smart Phone;**

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1880 MHz;
Duty Cycle: 1:1

Medium parameters used : $f = 1880$ MHz; $\sigma = 1.423$ S/m; $\epsilon_r = 41.089$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.0 °C; Liquid Temperature: 21.7 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.85, 7.30, 7.51) @ 1880 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (4x9x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.15 W/kg

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

Reference Value = 28.66 V/m; Power Drift = 0.05 dB

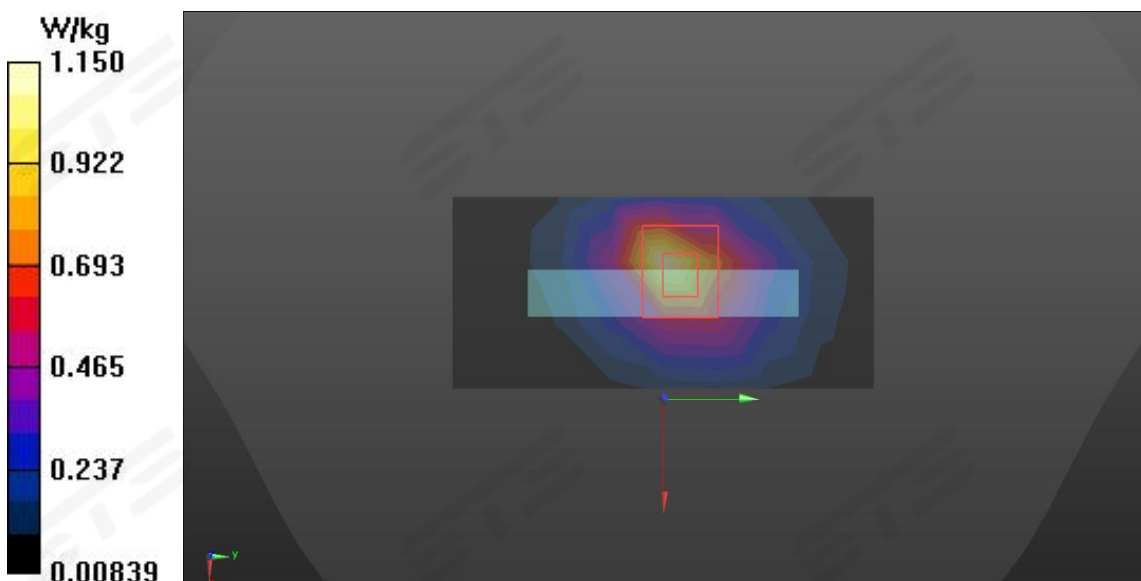
Peak SAR (extrapolated) = 1.84 W/kg

SAR(1 g) = 0.763 W/kg; SAR(10 g) = 0.371 W/kg

Smallest distance from peaks to all points 3 dB below = 19.1 mm

Ratio of SAR at M2 to SAR at M1 = 40.8%

Maximum value of SAR (measured) = 1.44 W/kg





Test Laboratory: STS Lab

Date: 2025/12/7

L137_LTE B4_QPSK20M_CH20175_1RB offset 99_Bottom Side_0.5cm_Main_SIM1**DUT: Smart Phone;**

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used : $f = 1732.5$ MHz; $\sigma = 1.363$ S/m; $\epsilon_r = 41.889$; $\rho = 1000$ kg/m³

Ambient Temperature: 20.8 °C; Liquid Temperature: 20.6 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(7.06, 7.52, 7.74) @ 1732.5 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (4x9x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.712 W/kg

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

Reference Value = 27.56 V/m; Power Drift = -0.07 dB

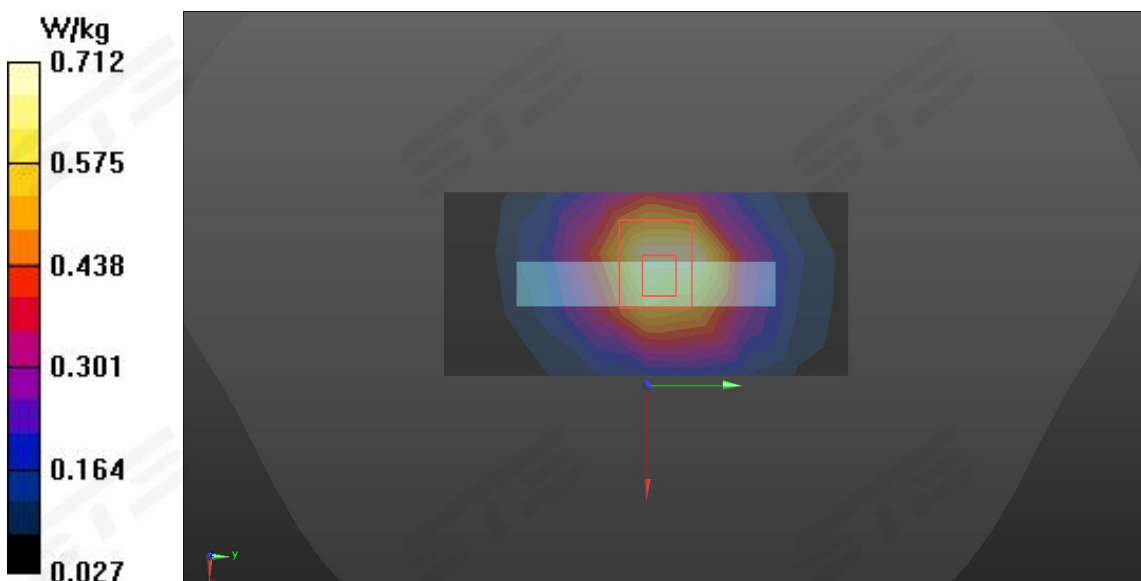
Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.560 W/kg; SAR(10 g) = 0.321 W/kg

Smallest distance from peaks to all points 3 dB below = 15.6 mm

Ratio of SAR at M2 to SAR at M1 = 52.9%

Maximum value of SAR (measured) = 0.832 W/kg





Test Laboratory: STS Lab

Date: 2025/12/2

L168_LTE B5_QPSK10M_CH20450_1RB offset 0_Bottom Side_0.5cm_Main_SIM1**DUT: Smart Phone;**

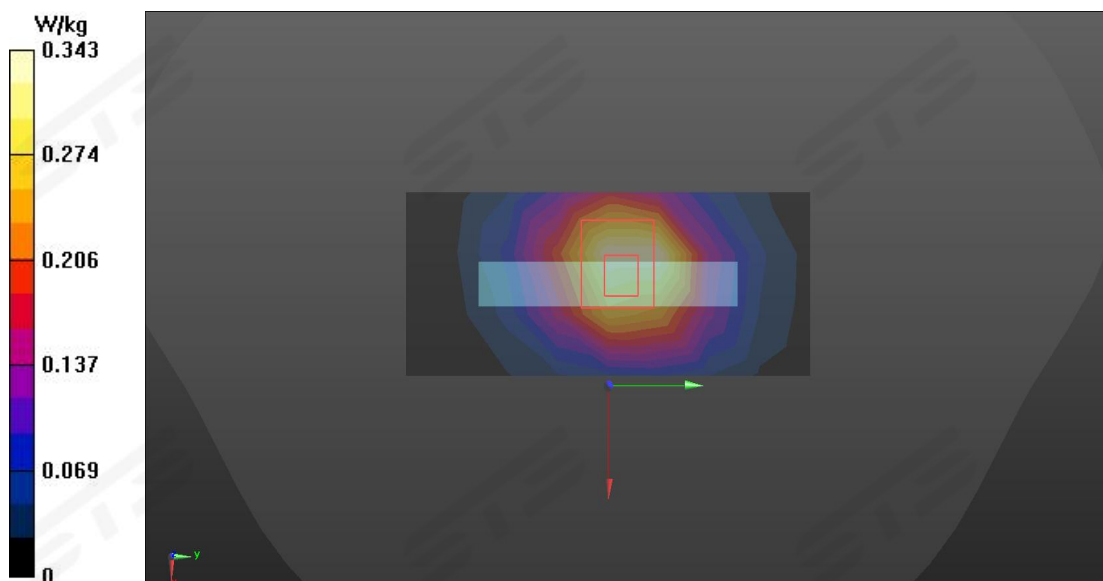
Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 829 MHz;

Duty Cycle: 1:1

Medium parameters used : $f = 829 \text{ MHz}$; $\sigma = 0.919 \text{ S/m}$; $\epsilon_r = 42.269$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature: $22.3 \text{ }^\circ\text{C}$; Liquid Temperature: $22.0 \text{ }^\circ\text{C}$

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(8.20, 8.73, 8.98) @ 829 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (4x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.343 W/kg **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 19.76 V/m ; Power Drift = 0.02 dB Peak SAR (extrapolated) = 0.927 W/kg **SAR(1 g) = 0.227 W/kg ; SAR(10 g) = 0.078 W/kg** Smallest distance from peaks to all points 3 dB below = 15.8 mm Ratio of SAR at M2 to SAR at M1 = 44.6% Maximum value of SAR (measured) = 0.497 W/kg 



Test Laboratory: STS Lab

Date: 2025/12/16

L192_LTE B7_QPSK20M_CH20850_1RB offset 0_Bottom Side_0.5cm_Main_SIM1**DUT: Smart Phone;**

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2510 MHz;
Duty Cycle: 1:1

Medium parameters used : $f = 2510$ MHz; $\sigma = 1.893$ S/m; $\epsilon_r = 40.395$; $\rho = 1000$ kg/m³

Ambient Temperature: 20.9 °C; Liquid Temperature: 20.6 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.14, 6.54, 6.73) @ 2510 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (4x9x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

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

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

Reference Value = 14.41 V/m; Power Drift = 0.02 dB

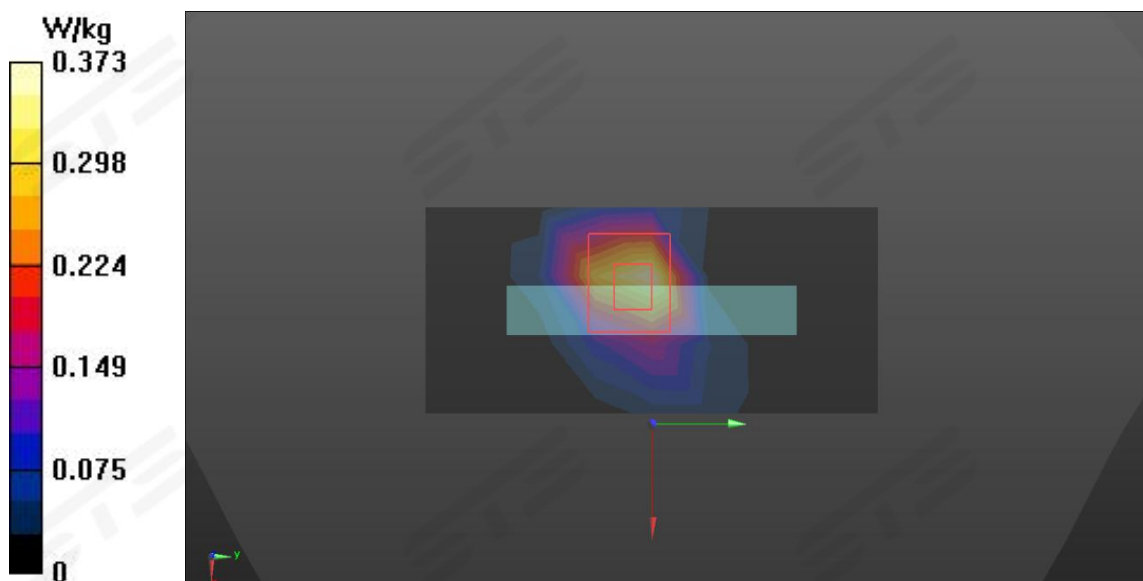
Peak SAR (extrapolated) = 0.571 W/kg

SAR(1 g) = 0.258 W/kg; SAR(10 g) = 0.112 W/kg

Smallest distance from peaks to all points 3 dB below = 17.2 mm

Ratio of SAR at M2 to SAR at M1 = 50.5%

Maximum value of SAR (measured) = 0.425 W/kg





Test Laboratory: STS Lab

Date: 2025/12/10

L209_LTE B12_QPSK10M_CH23095_1RB offset 0_Bottom Side_0.5cm_Main_SIM1**DUT: Smart Phone;**

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 707.5 MHz;
Duty Cycle: 1:1

Medium parameters used : $f = 707.5$ MHz; $\sigma = 0.871$ S/m; $\epsilon_r = 42.662$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6 °C; Liquid Temperature: 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(8.35, 8.89, 9.14) @ 707.5 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (4x9x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.425 W/kg

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

Reference Value = 22.31 V/m; Power Drift = 0.04 dB

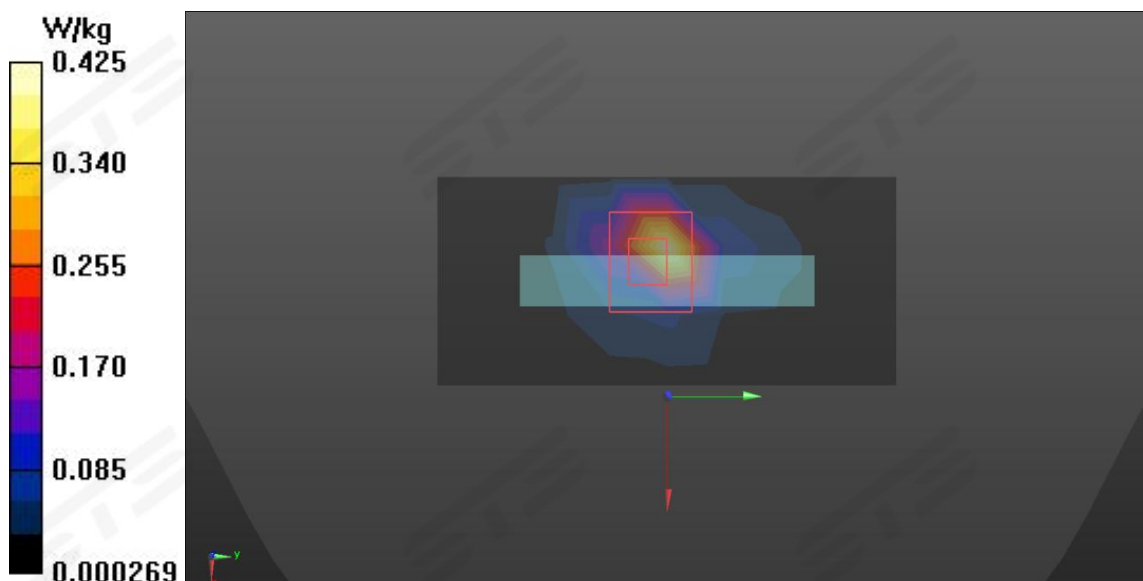
Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.267 W/kg; SAR(10 g) = 0.087 W/kg

Smallest distance from peaks to all points 3 dB below = 15.8 mm

Ratio of SAR at M2 to SAR at M1 = 32.2%

Maximum value of SAR (measured) = 0.538 W/kg





Test Laboratory: STS Lab

Date: 2025/12/10

L233_LTE B17_QPSK10M_CH23790_1RB offset 0_Bottom Side_0.5cm_Main_SIM1**DUT: Smart Phone;**

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 710 MHz;
Duty Cycle: 1:1

Medium parameters used : $f = 710$ MHz; $\sigma = 0.872$ S/m; $\epsilon_r = 42.651$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6 °C; Liquid Temperature: 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(8.35, 8.89, 9.14) @ 710 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (4x9x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.408 W/kg

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

Reference Value = 22.24 V/m; Power Drift = 0.05 dB

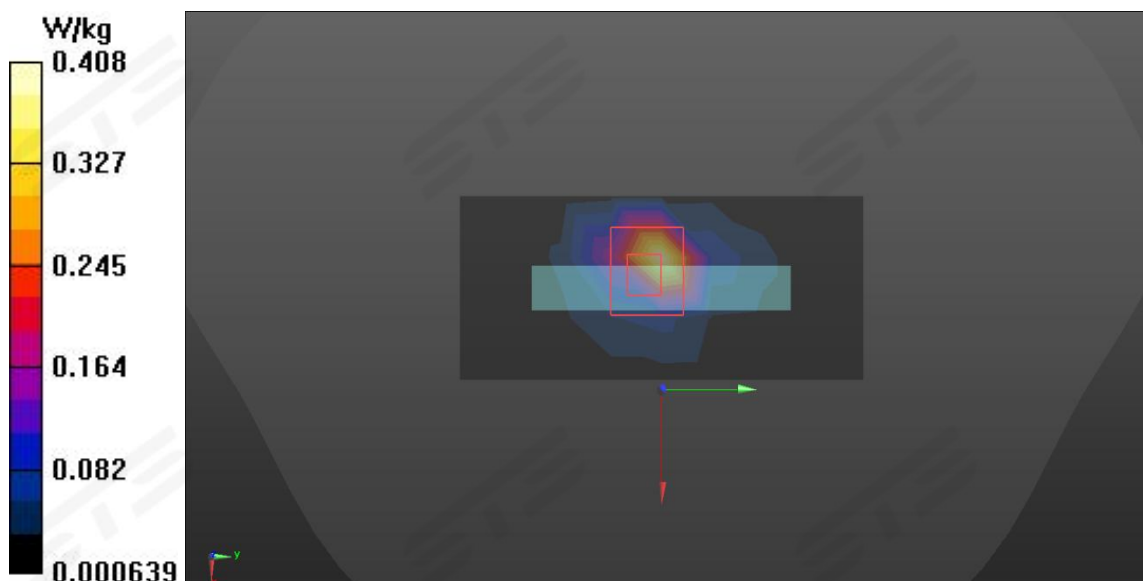
Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.252 W/kg; SAR(10 g) = 0.083 W/kg

Smallest distance from peaks to all points 3 dB below = 15.8 mm

Ratio of SAR at M2 to SAR at M1 = 52.3%

Maximum value of SAR (measured) = 0.509 W/kg





Test Laboratory: STS Lab

Date: 2025/12/9

L265_LTE B25_QPSK20M_CH26590_1RB offset 0_Bottom Side_0.5cm_Main_SIM1**DUT: Smart Phone;**

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1905 MHz;

Duty Cycle: 1:1

Medium parameters used : $f = 1905$ MHz; $\sigma = 1.441$ S/m; $\epsilon_r = 41.033$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.0 °C; Liquid Temperature: 21.7 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.85, 7.30, 7.51) @ 1905 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (4x9x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.08 W/kg

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

Reference Value = 29.09 V/m; Power Drift = -0.03 dB

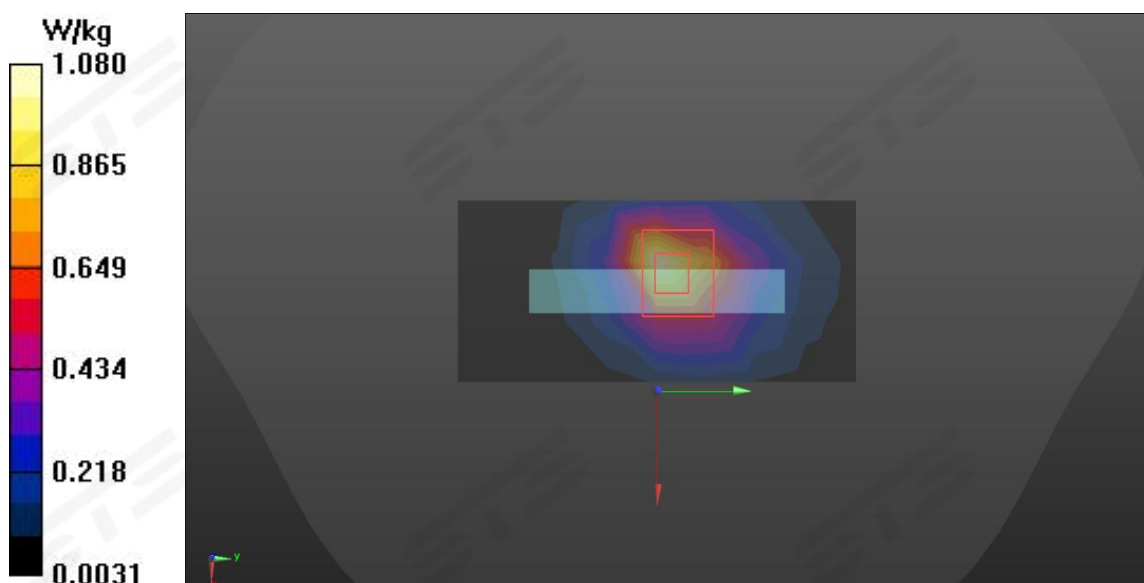
Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 0.681 W/kg; SAR(10 g) = 0.362 W/kg

Smallest distance from peaks to all points 3 dB below = 19.3 mm

Ratio of SAR at M2 to SAR at M1 = 42.4%

Maximum value of SAR (measured) = 1.38 W/kg





Test Laboratory: STS Lab

Date: 2025/12/7

L281_LTE B66_QPSK20M_CH132322_1RB offset 99_Bottom Side_0.5cm_Main_SIM1**DUT: Smart Phone;**

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1745 MHz;
Duty Cycle: 1:1

Medium parameters used : $f = 1745$ MHz; $\sigma = 1.371$ S/m; $\epsilon_r = 41.498$; $\rho = 1000$ kg/m³

Ambient Temperature: 20.8 °C; Liquid Temperature: 20.6 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(7.06, 7.52, 7.74) @ 1745 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (4x9x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.29 W/kg

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

Reference Value = 31.02 V/m; Power Drift = 0.06 dB

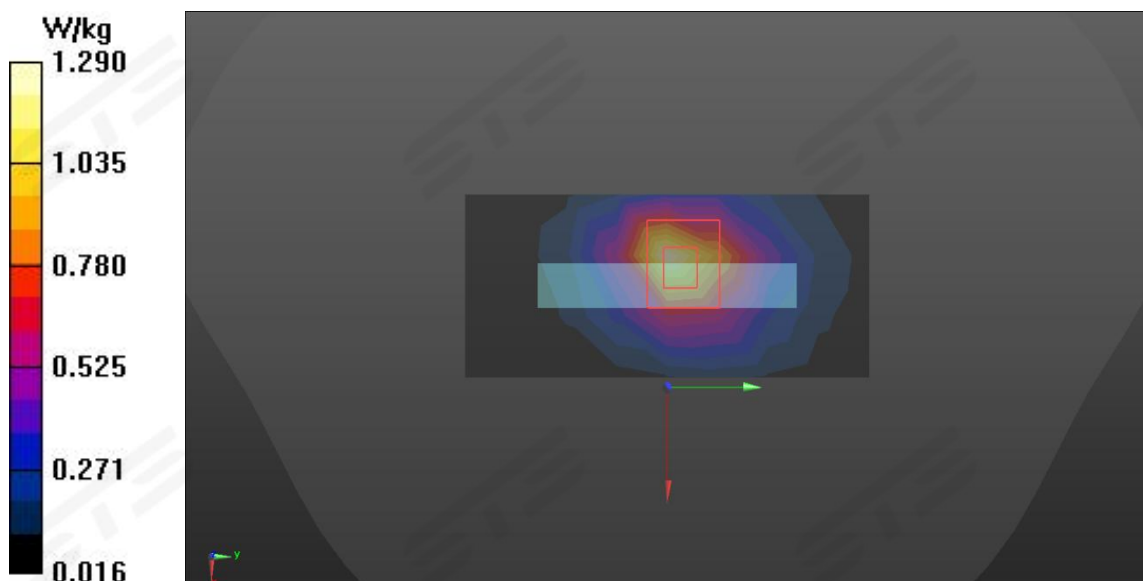
Peak SAR (extrapolated) = 1.95 W/kg

SAR(1 g) = 0.616 W/kg; SAR(10 g) = 0.369 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 46.8%

Maximum value of SAR (measured) = 1.58 W/kg





Test Laboratory: STS Lab

Date: 2025/12/16

W27_802.11b_CH06_Front Face_0.5cm_WIFI**DUT: Smart Phone;**

Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2437 MHz;
Duty Cycle: 1:1

Medium parameters used : $f = 2437$ MHz; $\sigma = 1.837$ S/m; $\epsilon_r = 40.614$; $\rho = 1000$ kg/m³

Ambient Temperature: 20.9 °C; Liquid Temperature: 20.6 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.30, 6.71, 6.90) @ 2437 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.165 W/kg

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

Reference Value = 3.994 V/m; Power Drift = 0.08 dB

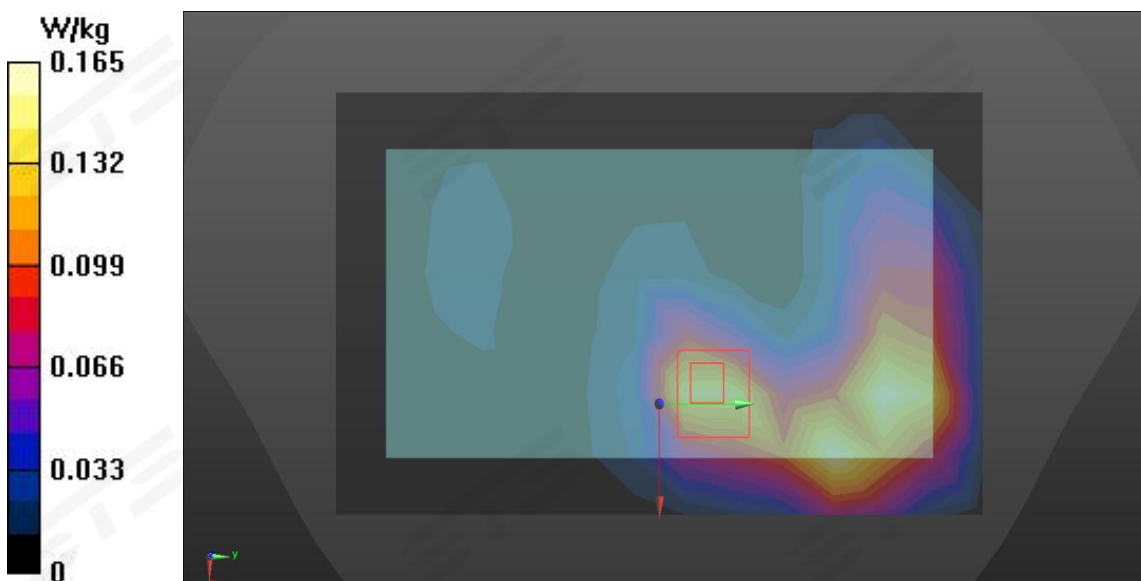
Peak SAR (extrapolated) = 0.260 W/kg

SAR(1 g) = 0.157 W/kg; SAR(10 g) = 0.056 W/kg

Smallest distance from peaks to all points 3 dB below = 19.2 mm

Ratio of SAR at M2 to SAR at M1 = 44%

Maximum value of SAR (measured) = 0.182 W/kg





Test Laboratory: STS Lab

Date: 2025/12/17

W40_802.11a_CH36_Front Face_0.5cm_WIFI**DUT: Smart Phone;**

Communication System: UID 10599 - AAB, IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle);

Frequency: 5180 MHz; Duty Cycle: 1:1

Medium parameters used : $f = 5180$ MHz; $\sigma = 4.571$ S/m; $\epsilon_r = 35.724$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.7 °C; Liquid Temperature: 23.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(4.96, 5.28, 5.44) @ 5180 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (7x12x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.183 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 1.667 V/m; Power Drift = 0.03 dB

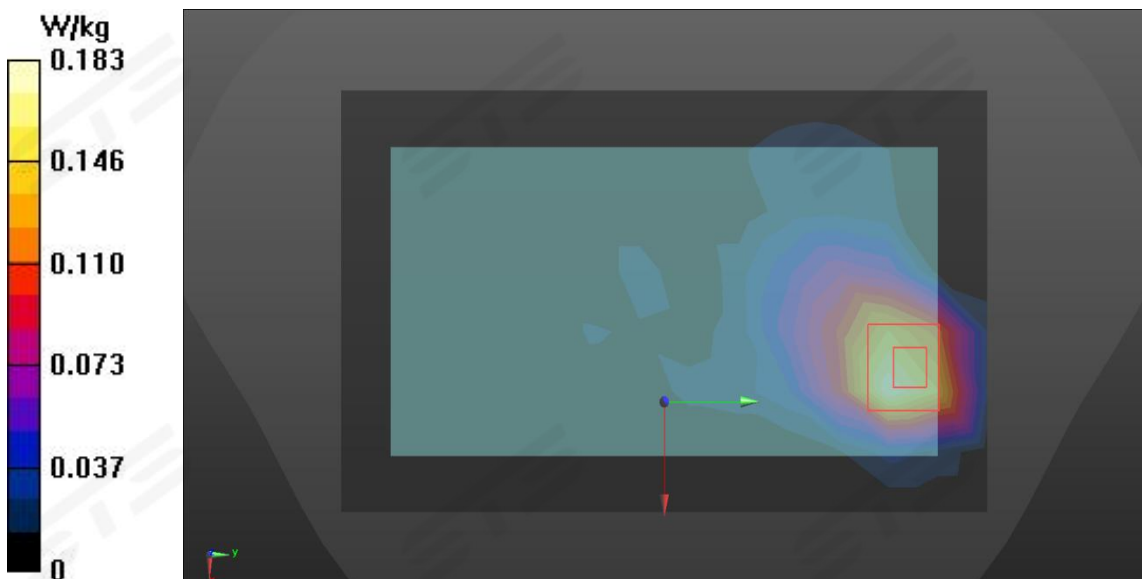
Peak SAR (extrapolated) = 0.415 W/kg

SAR(1 g) = 0.143 W/kg; SAR(10 g) = 0.040 W/kg

Smallest distance from peaks to all points 3 dB below = 19.7 mm

Ratio of SAR at M2 to SAR at M1 = 40.8%

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





Test Laboratory: STS Lab

Date: 2025/12/17

W52_802.11ac VHT80_CH157_Front Face_0.5cm_WIFI**DUT: Smart Phone;**

Communication System: UID 10626 - AAB, IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle); Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used : $f = 5785$ MHz; $\sigma = 5.303$ S/m; $\epsilon_r = 34.635$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.7 °C; Liquid Temperature: 23.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(4.59, 4.89, 5.03) @ 5785 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x12x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

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

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.01 dB

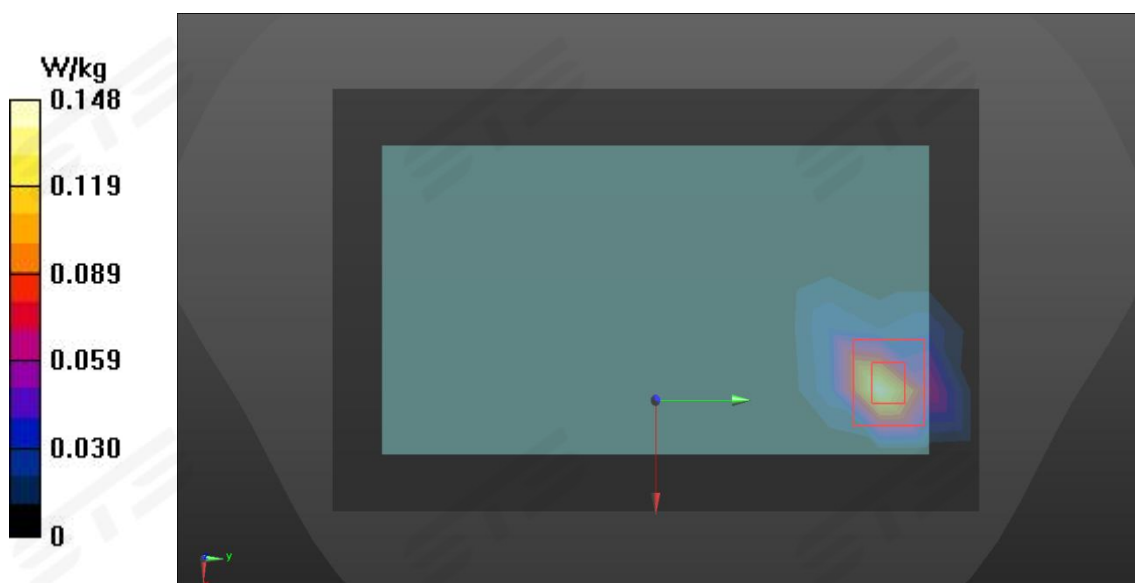
Peak SAR (extrapolated) = 0.150 W/kg

SAR(1 g) = 0.114 W/kg; SAR(10 g) = 0.037 W/kg

Smallest distance from peaks to all points 3 dB below = 12.9 mm

Ratio of SAR at M2 to SAR at M1 = 38.6%

Maximum value of SAR (measured) = 0.137 W/kg





Test Laboratory: STS Lab

Date: 2025/12/16

B13_BT_CH0_Front Face_0.5cm_BT**DUT: Smart Phone;**

Communication System: UID 10670 - AAA, Bluetooth Low Energy; Frequency: 2402 MHz; Duty Cycle: 1:1

Medium parameters used : $f = 2402$ MHz; $\sigma = 1.811$ S/m; $\epsilon_r = 40.672$; $\rho = 1000$ kg/m³

Ambient Temperature: 20.9 °C; Liquid Temperature: 20.6 °C

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.30, 6.71, 6.90) @ 2402 MHz; Calibrated: 2025/09/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/09/08
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1266
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.111 W/kg

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

Reference Value = 0 V/m; Power Drift = 0.01 dB

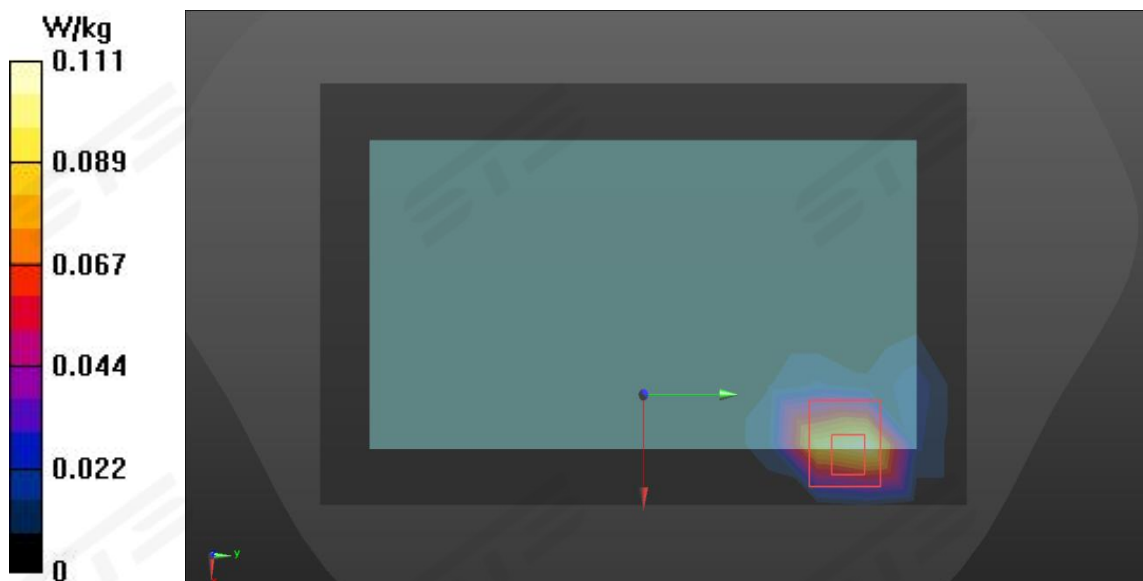
Peak SAR (extrapolated) = 0.185 W/kg

SAR(1 g) = 0.065 W/kg; SAR(10 g) = 0.021 W/kg

Smallest distance from peaks to all points 3 dB below = 15.1 mm

Ratio of SAR at M2 to SAR at M1 = 33.4%

Maximum value of SAR (measured) = 0.131 W/kg





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※END OF THE REPORT※※※※