



Registration  
No.910917

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# TEST REPORT FOR SAR TESTING

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Report No.:SRTC2017-9004(F)-17101001(H)

Product Name: Mobile Phone

Product Model: Hisense L675 PRO

Applicant: Hisense International Co., Ltd.

Manufacturer: Hisense International Co., Ltd.

Specification: FCC Part 2.1093

IEEE Std 1528-2013

FCC RF Exposure KDB Procedures

FCC ID: 2ADOBL675PRO

The State Radio\_monitoring\_center Testing Center (SRTC)

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## 1 GENERAL INFORMATION

### 1.1 Notes of the test report

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The test results relate only to individual items of the samples which have been tested.

### 1.2 Information about the testing laboratory

Company:	The State Radio_monitoring_center Testing Center (SRTC)
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### 1.3 Applicant's details

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### 1.4 Manufacturer's details

Company:	Hisense Communications Co., Ltd.
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Country or Region:	P.R.China
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### 1.5 Test Environment

Date of Receipt of test sample at SRTC:	2017.05.02
Testing Start Date:	2017.05.02
Testing End Date:	2017.10.16

Environmental Data:	Temperature (°C)	Humidity (%)
Ambient	24.0	30.0

Normal Supply Voltage (V d.c.):	3.80
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## 2 DESCRIPTION OF THE DEVICE UNDER TEST

### 2.1 Final Equipment Build Status

Wireless Technology and Frequency Bands	GSM Band : GSM850/PCS1900 WCDMA Band: FDD2/4/5 LTE Band: FDD2/4/5/7 Wi-Fi Band: 2400MHz~2483.5MHz Bluetooth Band: 2400MHz~2483.5MHz
Mode	<p>GSM</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/>Voice (GMSK)</li> <li><input checked="" type="checkbox"/>GPRS (GMSK)</li> <li><input checked="" type="checkbox"/>EGPRS (GMSK/8PSK)</li> </ul> <p>WCDMA</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/>UMTS Rel. 99 (Voice &amp; Data)</li> <li><input checked="" type="checkbox"/>HSDPA (Rel. 5)</li> <li><input checked="" type="checkbox"/>HSUPA (Rel. 6)</li> <li><input type="checkbox"/>HSPA+ (Rel. )</li> <li><input type="checkbox"/>DC-HSDPA (Rel. )</li> </ul> <p>LTE</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/>QPSK</li> <li><input checked="" type="checkbox"/>16QAM</li> </ul> <p>Wi-Fi 2.4GHz</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/>802.11b</li> <li><input checked="" type="checkbox"/>802.11g</li> <li><input checked="" type="checkbox"/>802.11n (20MHz)</li> </ul> <p>Bluetooth</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/>BR(GFSK)</li> <li><input checked="" type="checkbox"/>EDR(<math>\pi/4</math> DQPSK , 8-DPSK)</li> <li><input checked="" type="checkbox"/>BLE(GFSK)</li> </ul>
Duty Cycle	GSM Voice: 12.5%; GPRS: 12.5% (1 Slot), 25% (2 Slots), 37.5% (3 Slots), 50% (4 Slots) WCDMA: 100% Wi-Fi 802.11b/g/n: 100% Bluetooth: 32.25% (DH1), 66.68% (DH3), 77.52% (DH5)
GPRS Multi-Slot Class	<ul style="list-style-type: none"> <li><input type="checkbox"/>Class 8 - One Up</li> <li><input type="checkbox"/>Class 10 - Two Up</li> <li><input checked="" type="checkbox"/>Class 12 - Four Up</li> </ul>
Mobile Phone Capability	<ul style="list-style-type: none"> <li><input type="checkbox"/>Class A - Mobile phones can be connected to both GPRS and GSM services simultaneously.</li> <li><input checked="" type="checkbox"/>Class B - Mobile phones can be attached to both GPRS and GSM services, using one service at a time.</li> <li><input type="checkbox"/>Class C - Mobile phones are attached to either GPRS or GSM voice service. You need to switch manually between services</li> </ul>
DTM (Dual Transfer Mode)	Not Supported

## 2.2 Support Equipment

The following support equipment was used to exercise the DUT during testing:

State of sample	Production unit
Headset	PY-1309102-05KD45/DONGGUAN HETONG INDUSTRIAL CO.,LTD
Batteries	Battery1 :LIW38238/TMB Battery2 :LIW38238/VEKEN
H/W Version S/W Version	V1.00 L1402.6.02.02.MX05
IMEI	Original sample:863721030069527 New sample1(color gray):866335031252110 New sample2(color golden):866335031252060
Notes	As the information described above, there is only one model of the batteries manufactured by two different companies. The relevant tests have been performed in order to verify in which combination case the EUT would have the worst features. So all the tests shown in this test report are performed when the EUT exercised by the battery TMB.

## 3 REFERENCE SPECIFICATION

Specification	Version	Title
Part 2.1093	Nov. 14, 2016	Radiofrequency radiation exposure evaluation: portable devices.
IEEE Std 1528	2013	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
IEEE Std 1528a	2005	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques Amendment 1: CAD File for Human Head Model (SAM Phantom)
KDB 447498 D01	v06	General RF Exposure Guidance
KDB 648474 D04	v01r03	Handset SAR
KDB 941225 D01	v03r01	3G SAR Procedures
KDB 941225 D06	v02r01	Hotspot Mode
KDB 248227 D01	v02r02	SAR meas for 802 11 a b g
KDB 865664 D01	v01r04	SAR Measurement 100 MHz to 6 GHz
KDB 865664 D02	v01r02	RF Exposure Reporting
KDB 941225 D05	v02r05	SAR for LTE Devices

## **4 TEST CONDITIONS**

### **4.1 Picture to demonstrate the required liquid depth**

The liquid depth in the used SAM phantoms



Liquid depth for SAR Measurement

### **4.2 Test Signal, Frequencies and Output Power**

The device was put into operation by using a call tester. Communication between the device and the call tester was established by air link.

The device output power was set to maximum power level for all tests; a fully charged battery was used for every test sequence.

In all operating bands the measurements were performed on lowest, middle and highest channels.

### **4.3 SAR Measurement Set-up**

The system is based on a high precision robot (working range greater than 0.9m), which positions the probes with a positional repeatability of better than  $\pm 0.02\text{mm}$ . Special E- and H-field probes have been developed for measurements close to material discontinuity, the sensors of which are directly loaded with a Schottky diode and connected via highly resistive lines (length =300mm) to the data acquisition unit. A cell controller system contains the power supply, robot controller, teaches pendant (Joystick), and remote control, is used to drive the robot motors.

The PC consists of the Micron Pentium IV computer with Win7 system and SAR Measurement Software DASY5 Professional, A/D interface card, monitor, mouse, and keyboard. The Stäubli Robot is connected to the cell controller to allow software manipulation of the robot.

A data acquisition electronic (DAE) circuit performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card. The DAE consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines.

The mechanical probe mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection

The robot uses its own controller with a built in VME-bus computer.

#### **4.4 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 phantom conforms to the requirements of IEEE 1528 - 2013.

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.

The SPEAG device holder (see Section 5.1) was used to position the device in all tests whilst a tripod was used to position the validation dipoles against the flat section of phantom.

#### **4.5 Tissue Simulants**

Recommended values for the dielectric parameters of the tissue simulants are given in IEEE 1528 - 2013 and FCC Supplement C to OET Bulletin 65. All tests were carried out using simulants whose dielectric parameters were within  $\pm 5\%$  of the recommended values. All tests were carried out within 24 hours of measuring the dielectric parameters.

The depth of the tissue simulant was  $15.0 \pm 0.5$  cm measured from the ear reference point during system checking and device measurements.



#### 4.5.1 Tissue Simulant Recipes

The following recipe(s) were used for Head and Body tissue stimulant(s):

##### 835MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Water	41.45	52.50
Sugar	56.00	45.0
Nacl	1.45	1.40
Cellulose	1.00	1.00
Preventol	0.10	0.10

##### 1900MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Water	44.45	70.17
DGBE	55.24	29.44
Nacl	0.31	0.39

##### 2450MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Water	55.00	68.64
DGBE	45.00	31.37
Nacl	0.00	0.00

##### 5GHz band

Ingredient	Head (% by weight)	Body (% by weight)
Water	65.52	---
Triton X-100	17.24	---
Diethylenglycol monohexylether	17.24	---

#### 4.6 DESCRIPTION OF THE TEST PROCEDURE

##### 4.6.1 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.



**Device holder supplied by SPEAG**

## 4.6.2 Test positions

### 4.6.2.1 Against Phantom Head

Measurements were made in “cheek” and “tilt” positions on both the left hand and right hand sides of the phantom.

The positions used in the measurements were according to IEEE 1528 - 2013 "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques".

### 4.6.2.2 Body Worn Configuration

The device was placed in the SPEAG holder below the flat section of the phantom. The distance between the device and the phantom was kept at the separation distance using a separate flat spacer that was removed before the start of the measurements. And the distance is 10mm. The device was oriented with its antenna facing the phantom since this orientation gives higher results.

## 4.6.3 Scan Procedure

First, area scans were used for determination of the field distribution and the approximate location of the local peak SAR values. The SAR distribution is scanned along the inside surface, at least for an area larger than the projection of the handset and antenna. The angle between the probe axis and the surface normal line is recommended but not required to be less than 30°. The SAR distribution is first measured on a 2-D coarse grid. The scan region should cover all areas that are exposed and encompassed by the projection of the handset. It is a 15 mm × 15 mm measurement grid used when two staggered one-dimensional cubic splines are used to estimate the maximum SAR location. Next, a zoom scan, a minimum of 7 x 7x7 points covering a volume of at least 30x30x30mm, was performed around the highest E-field value to determine the averaged SAR value. Drift was determined by measuring the same point at the start of the area scan and again at the end of the zoom scan.

## 4.6.4 SAR Averaging Methods

The maximum SAR value was averaged over a cube of tissue using interpolation and extrapolation.

The interpolation, extrapolation and maximum search routines within DASY5 are all based on the modified Quadratic Shepard's method (Robert J. Renka, "Multivariate Interpolation of Large Sets of Scattered Data", University of North Texas ACM Transactions on Mathematical Software, vol. 14, no. 2, June 1988, pp. 139-148).

The interpolation scheme combines a least-square fitted function method with a weighted average method. A trivariate 3-D / bivariate 2-D quadratic function is computed for each measurement point and fitted to neighbouring points by a least-square method. For the zoom scan, inverse distance weighting is incorporated to fit distant points more accurately. The interpolating function is finally calculated as a weighted average of the quadratics. In the zoom scan, the interpolation function is used to extrapolate the Peak SAR from the deepest measurement points to the inner surface of the phantom.

## 5 RESULT SUMMAR

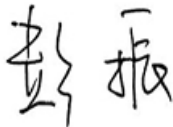


The maximum reported SAR values for Head configuration and Body Worn configuration are given as follows. The device conforms to the requirements of the standard(s) when the maximum reported SAR value is less than or equal to the limit.

NOTE: The test result of variation product is better than the original test data. So the original test data retain and adopted as the final test result.

Exposure Position	Frequency Band	1g-SAR Reported Result (W/kg)	Highest 1g-SAR Reported Result (W/kg)		Limit (W/kg)/1g	Result
Head	GSM 850	0.322	0.509			
	GSM 1900	0.269				
	WCDMA BAND 2	0.508				
	WCDMA BAND 4	0.509				
	WCDMA BAND 5	0.196				
	LTE Band 2	0.464				
	LTE Band 4	0.432				
	LTE Band 5	0.155				
Body(5mm)	LTE Band 7	0.073	1.012	1.012	1.60	PASS
	GSM 850	0.953				
	GSM 1900	0.981				
	WCDMA BAND 2	0.781				
	WCDMA BAND 4	1.012				
	WCDMA BAND 5	0.468				
	LTE Band 2	0.934				
	LTE Band 4	0.527				
Hotspot(5mm)	LTE Band 5	0.310	0.858			
	LTE Band 7	0.850				
	GSM 850	0.858				
	GSM 1900	0.569				
	WCDMA BAND 2	0.738				
	WCDMA BAND 4	0.538				
	WCDMA BAND 5	0.159				
	LTE Band 2	0.396				
LTE Band 4	0.392					
	LTE Band 5	0.352				
	LTE Band 7	0.600				

Simultaneous Transmission Summary

Exposure Position	Frequency Band	1g-SAR Result(W/kg)	Highest 1g-SAR Result(W/kg)		Limit (W/kg)/1g	Result
Head	GSM & Wi-Fi	0.739	0.926	1.429	1.60	PASS
	WCDMA & Wi-Fi	0.926				
	LTE& Wi-Fi	0.881				
	GSM & Bluetooth	0.355				
	WCDMA & Bluetooth	0.542				
	LTE& Bluetooth	0.497				
Body(5mm)	GSM & Wi-Fi	1.398	1.429	1.429	1.60	PASS
	WCDMA & Wi-Fi	1.429				
	LTE& Wi-Fi	1.351				
	GSM & Bluetooth	1.014				
	WCDMA & Bluetooth	1.045				
	LTE& Bluetooth	0.967				
Hotspot(5mm)	GSM & Wi-Fi	1.275	1.275	1.429	1.60	PASS
	WCDMA & Wi-Fi	1.155				
	LTE& Wi-Fi	1.017				
	GSM & Bluetooth	0.891				
	WCDMA & Bluetooth	0.771				
	LTE& Bluetooth	0.633				

This Test Report Is Issued by: Mr. Peng Zhen 	Checked by: Ms. Liu Jia 
Tested by: Mr. Chang Tianyu 	Issued date: 2017.10.19

## **6 TEST RESULT**

### **6.1 Manufacturing Tolerance**

#### **GSM**

<b>GSM 850</b>			
Channel	Channel 128	Channel 189	Channel 251
Tolerance (dBm)	30.0~34.0	30.0~34.0	30.0~34.0
<b>GSM 1900</b>			
Channel	Channel 512	Channel 661	Channel 810
Tolerance (dBm)	27.0~31.0	27.0~31.0	27.0~31.0

<b>GSM 850 GPRS</b>				
Channel		128	189	251
1 Txslot	Tolerance (dBm)	30.0~34.0	30.0~34.0	30.0~34.0
2 Txslot	Tolerance (dBm)	28.0~32.0	28.0~32.0	28.0~32.0
3 Txslot	Tolerance (dBm)	27.0~31.0	27.0~31.0	27.0~31.0
4 Txslot	Tolerance (dBm)	25.0~29.0	25.0~29.0	25.0~29.0
<b>GSM 850 EGPRS (GMSK)</b>				
Channel		128	189	251
1 Txslot	Tolerance (dBm)	30.0~34.0	30.0~34.0	30.0~34.0
2 Txslot	Tolerance (dBm)	28.0~32.0	28.0~32.0	28.0~32.0
3 Txslot	Tolerance (dBm)	27.0~31.0	27.0~31.0	27.0~31.0
4 Txslot	Tolerance (dBm)	25.0~29.0	25.0~29.0	25.0~29.0

<b>GSM 1900 GPRS</b>				
Channel		512	661	810
1 Txslot	Tolerance (dBm)	27.0~31.0	27.0~31.0	27.0~31.0
2 Txslot	Tolerance (dBm)	26.0~30.0	26.0~30.0	26.0~30.0
3 Txslot	Tolerance (dBm)	24.0~28.0	24.0~28.0	24.0~28.0
4 Txslot	Tolerance (dBm)	22.0~26.0	22.0~26.0	22.0~26.0
<b>GSM 1900 EGPRS (GMSK)</b>				
Channel		512	661	810
1 Txslot	Tolerance (dBm)	27.0~31.0	27.0~31.0	27.0~31.0
2 Txslot	Tolerance (dBm)	26.0~30.0	26.0~30.0	26.0~30.0
3 Txslot	Tolerance (dBm)	24.0~28.0	24.0~28.0	24.0~28.0
4 Txslot	Tolerance (dBm)	22.0~26.0	22.0~26.0	22.0~26.0

### WCDMA

WCDMA Band2			
Channel	9262	9400	9538
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
WCDMA Band4			
Channel	1312	1412	1513
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
WCDMA Band5			
Channel	4132	4183	4233
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0

HSDPA Band2				
Channel		9262	9400	9538
Sub test 1	Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0
Sub test 2	Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0
Sub test 3	Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0
Sub test 4	Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0
HSDPA Band4				
Channel		1312	1412	1513
Sub test 1	Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0
Sub test 2	Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0
Sub test 3	Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0
Sub test 4	Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0
HSDPA Band5				
Channel		4132	4183	4233
Sub test 1	Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0
Sub test 2	Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0
Sub test 3	Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0
Sub test 4	Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0

HSUPA Band2				
Channel		9262	9400	9538
Sub test 1	Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0
Sub test 2	Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0
Sub test 3	Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0
Sub test 4	Tolerance (dBm)	17.0~21.0	17.0~21.0	17.0~21.0
Sub test 5	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0

HSUPA Band4				
Channel		1312	1412	1513
Sub test 1	Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0
Sub test 2	Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0
Sub test 3	Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0
Sub test 4	Tolerance (dBm)	17.0~21.0	17.0~21.0	17.0~21.0
Sub test 5	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
HSUPA Band5				
Channel		4132	4183	4233
Sub test 1	Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0
Sub test 2	Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0
Sub test 3	Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0
Sub test 4	Tolerance (dBm)	17.0~21.0	17.0~21.0	17.0~21.0
Sub test 5	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0

### Bluetooth

GFSK			
Channel	0	39	78
Tolerance (dBm)	-6.0~-2.0	-6.0~-2.0	-6.0~-2.0
π/4DQPSK			
Channel	0	39	78
Tolerance (dBm)	-6.0~-2.0	-6.0~-2.0	-6.0~-2.0
8DPSK			
Channel	0	39	78
Tolerance (dBm)	-6.0~-2.0	-6.0~-2.0	-6.0~-2.0

### Bluetooth (BLE)

GFSK			
Channel	0	39	78
Tolerance (dBm)	-2.0~2.0	-2.0~2.0	-2.0~2.0

### Wi-Fi(2.4GHz)

802.11b			
Channel	1	6	11
Tolerance (dBm)	9.0~13.0	9.0~13.0	9.0~13.0
802.11g			
Channel	1	6	11
Tolerance (dBm)	8.0~12.0	8.0~12.0	8.0~12.0
802.11n HT20			
Channel	1	6	11
Tolerance (dBm)	8.0~12.0	8.0~12.0	8.0~12.0

**LTE**

**Band 2**

20BW 100%RB			
Channel	Channel 18700	Channel 18900	Channel 19100
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
20BW 50%RB			
Channel	Channel 18700	Channel 18900	Channel 19100
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
20BW 1RB			
Channel	Channel 18700	Channel 18900	Channel 19100
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
15BW 100%RB			
Channel	Channel 18675	Channel 18900	Channel 19125
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
15BW 50%RB			
Channel	Channel 18675	Channel 18900	Channel 19125
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
15BW 1RB			
Channel	Channel 18675	Channel 18900	Channel 19125
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
10BW 100%RB			
Channel	Channel 18650	Channel 18900	Channel 19150
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
10BW 50%RB			
Channel	Channel 18650	Channel 18900	Channel 19150
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
10BW 1RB			
Channel	Channel 18650	Channel 18900	Channel 19150
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
5BW 100%RB			
Channel	Channel 18625	Channel 18900	Channel 19175
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
5BW 50%RB			
Channel	Channel 18625	Channel 18900	Channel 19175
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
5BW 1RB			
Channel	Channel 18625	Channel 18900	Channel 19175
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
3BW 100%RB			
Channel	Channel 18615	Channel 18900	Channel 19185
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
3BW 50%RB			
Channel	Channel 18615	Channel 18900	Channel 19185
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
3BW 1RB			
Channel	Channel 18615	Channel 18900	Channel 19185
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
1.4BW 100%RB			
Channel	Channel 18607	Channel 18900	Channel 19193
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
1.4BW 50%RB			
Channel	Channel 18607	Channel 18900	Channel 19193
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
1.4BW 1RB			
Channel	Channel 18607	Channel 18900	Channel 19193
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0



Band 4

20BW 100%RB			
Channel	Channel 20050	Channel 20175	Channel 20300
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
20BW 50%RB			
Channel	Channel 20050	Channel 20175	Channel 20300
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
20BW 1RB			
Channel	Channel 20050	Channel 20175	Channel 20300
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
15BW 100%RB			
Channel	Channel 20250	Channel 20175	Channel 20325
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
15BW 50%RB			
Channel	Channel 20250	Channel 20175	Channel 20325
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
15BW 1RB			
Channel	Channel 20250	Channel 20175	Channel 20325
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
10BW 100%RB			
Channel	Channel 20000	Channel 20175	Channel 20350
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
10BW 50%RB			
Channel	Channel 20000	Channel 20175	Channel 20350
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
10BW 1RB			
Channel	Channel 20000	Channel 20175	Channel 20350
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
5BW 100%RB			
Channel	Channel 19975	Channel 20175	Channel 20375
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
5BW 50%RB			
Channel	Channel 19975	Channel 20175	Channel 20375
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
5BW 1RB			
Channel	Channel 19975	Channel 20175	Channel 20375
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
3BW 100%RB			
Channel	Channel 19965	Channel 20175	Channel 20385
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
3BW 50%RB			
Channel	Channel 19965	Channel 20175	Channel 20385
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
3BW 1RB			
Channel	Channel 19965	Channel 20175	Channel 20385
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
1.4BW 100%RB			
Channel	Channel 19957	Channel 20175	Channel 20393
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
1.4BW 50%RB			
Channel	Channel 19957	Channel 20175	Channel 20393
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
1.4BW 1RB			
Channel	Channel 19957	Channel 20175	Channel 20393
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0

Band 5

10BW 100%RB			
Channel	Channel 20000	Channel 20175	Channel 20350
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
10BW 50%RB			
Channel	Channel 20000	Channel 20175	Channel 20350
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
10BW 1RB			
Channel	Channel 20000	Channel 20175	Channel 20350
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
5BW 100%RB			
Channel	Channel 19975	Channel 20175	Channel 20375
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
5BW 50%RB			
Channel	Channel 19975	Channel 20175	Channel 20375
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
5BW 1RB			
Channel	Channel 19975	Channel 20175	Channel 20375
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
3BW 100%RB			
Channel	Channel 19965	Channel 20175	Channel 20385
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
3BW 50%RB			
Channel	Channel 19965	Channel 20175	Channel 20385
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
3BW 1RB			
Channel	Channel 19965	Channel 20175	Channel 20385
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
1.4BW 100%RB			
Channel	Channel 19957	Channel 20175	Channel 20393
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
1.4BW 50%RB			
Channel	Channel 19957	Channel 20175	Channel 20393
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
1.4BW 1RB			
Channel	Channel 19957	Channel 20175	Channel 20393
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0

**Band7**

20BW 100%RB			
Channel	Channel 20850	Channel 21100	Channel 21350
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
20BW 50%RB			
Channel	Channel 20850	Channel 21100	Channel 21350
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
20BW 1RB			
Channel	Channel 20850	Channel 21100	Channel 21350
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
15BW 100%RB			
Channel	Channel 20825	Channel 21100	Channel 21375
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
15BW 50%RB			
Channel	Channel 20825	Channel 21100	Channel 21375
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
15BW 1RB			
Channel	Channel 20825	Channel 21100	Channel 21375
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
10BW 100%RB			
Channel	Channel 20800	Channel 21100	Channel 21400
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
10BW 50%RB			
Channel	Channel 20800	Channel 21100	Channel 21400
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
10BW 1RB			
Channel	Channel 20800	Channel 21100	Channel 21400
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
5BW 100%RB			
Channel	Channel 20775	Channel 21100	Channel 21425
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
5BW 50%RB			
Channel	Channel 20775	Channel 21100	Channel 21425
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
5BW 1RB			
Channel	Channel 20775	Channel 21100	Channel 21425
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0

## 6.2 GSM Measurement result

### GSM Measured Power

Mode	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency(MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
Measured Power(dBm)	32.91	32.94	32.92	29.97	29.98	29.91

### GPRS Measured Power

Mode	GPRS850			GPRS1900		
Channel	128	189	251	512	661	810
Frequency(MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
4Downlink1uplinkPower(dBm)	32.91	32.94	32.92	29.97	29.98	29.91
3Downlink2uplinkPower(dBm)	31.11	30.97	30.92	27.44	27.46	27.53
2Downlink3uplinkPower(dBm)	29.28	29.15	29.10	26.12	26.09	26.12
1Downlink4uplinkPower(dBm)	28.30	28.17	28.11	25.00	25.01	24.99

### GPRS Averaged Power

Mode	GPRS850			GPRS1900		
Channel	128	189	251	512	661	810
Frequency(MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
4Downlink1uplinkPower(dBm)	23.88	23.91	23.89	20.94	20.95	20.88
3Downlink2uplinkPower(dBm)	25.09	24.95	24.90	21.42	21.44	21.51
2Downlink3uplinkPower(dBm)	25.02	24.89	24.84	21.86	21.83	21.86
1Downlink4uplinkPower(dBm)	25.29	25.16	25.10	21.99	22.00	21.98

### Division Factors (for Measured Power and Averaged Power):

To average the power, the division factor is as follows:

1TX-slot (4Downlink1uplink) = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots(3Downlink2uplink) = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots (2Downlink3uplink)= 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots (1Downlink4uplink)= 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 4Txslots (1Downlink4uplink) for GPRS.

### EGPRS Measured Power

Mode	EGPRS850 (GMSK)			EGPRS1900 (GMSK)		
	EGPRS850 (8PSK)			EGPRS1900 (8PSK)		
Channel	128	189	251	512	661	810
Frequency(MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
4Downlink1uplinkPower(dBm)	32.91	32.94	32.92	29.97	29.98	29.91
	26.00	25.92	25.83	25.78	25.53	25.37
3Downlink2uplinkPower(dBm)	31.11	30.97	30.92	27.44	27.46	27.53
	25.31	25.82	25.56	25.41	25.12	25.19
2Downlink3uplinkPower(dBm)	29.28	29.15	29.10	26.12	26.09	26.12
	23.87	24.05	24.10	23.60	23.23	22.97
1Downlink4uplinkPower(dBm)	28.30	28.17	28.11	25.00	25.01	24.99
	21.68	21.63	21.66	20.65	20.48	20.80

### EGPRS Averaged Power

Mode	EGPRS850 (GMSK)			EGPRS1900 (GMSK)		
	EGPRS850 (8PSK)			EGPRS1900 (8PSK)		
Channel	128	189	251	512	661	810
Frequency(MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
4Downlink1uplinkPower(dBm)	23.88	23.91	23.89	20.94	20.95	20.88
	16.97	16.89	16.80	16.75	16.50	16.34
3Downlink2uplinkPower(dBm)	25.09	24.95	24.90	21.42	21.44	21.51
	19.29	19.80	19.54	19.39	19.10	19.17
2Downlink3uplinkPower(dBm)	25.02	24.89	24.84	21.86	21.83	21.86
	19.61	19.79	19.84	19.34	18.97	18.71
1Downlink4uplinkPower(dBm)	25.29	25.16	25.10	21.99	22.00	21.98
	18.67	18.62	18.65	17.64	17.47	17.79

### Division Factors (for Measured Power and Averaged Power):

To average the power, the division factor is as follows:

1TX-slot (4Downlink1uplink) = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots(3Downlink2uplink) = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots (2Downlink3uplink) = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots (1Downlink4uplink) = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 4Txslots (1Downlink4uplink) for EGPRS (GMSK).

### 6.3 WCDMA Measurement result

The following procedures are according to FCC KDB Publication 941225 D01.  
Release 99

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The DUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7).

Mode	Subtest	Rel99
WCDMA General Settings	Loopback Mode	Test Mode 1
	Rel99 RMC	12.2kbps RMC
	Power Control Algorithm	Algorithm2
	$\beta_c/\beta_d$	8/15

#### Measured Results

Mode	Band2			Band4		
Channel	9262	9400	9538	1312	1412	1513
Frequency(MHz)	1852.4	1880	1907.6	1712.4	1732.4	1752.6
RB test mode1+64kRMC(dBm)	22.55	22.52	22.55	22.31	22.28	22.31
RB test mode1+12.2kRMC(dBm)	22.62	22.65	22.61	22.38	22.41	22.37
RB test mode1+144kRMC(dBm)	22.57	22.56	22.58	22.33	22.32	22.34
RB test mode1+384kRMC(dBm)	22.50	22.54	22.58	22.26	22.30	22.34
AMR Voice test mode+12.2kRMC(dBm)	22.52	22.56	22.56	22.28	22.32	22.32
Mode	Band5					
Channel	4132	4183	4233			
Frequency(MHz)	826.4	836.6	846.6			
RB test mode1+64kRMC(dBm)	22.39	22.45	22.52			
RB test mode1+12.2kRMC(dBm)	22.48	22.56	22.55			
RB test mode1+144kRMC(dBm)	22.41	22.36	22.37			
RB test mode1+384kRMC(dBm)	22.38	22.38	22.38			
AMR Voice test mode+12.2kRMC(dBm)	22.37	22.34	22.33			

## HSDPA

The following 4 Sub-tests were completed according to Release 5 procedures in section 5.2 of 3GPP TS34.121.

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

Note1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$ .

Note2: CM=1 for  $\beta_c/\beta_d = 12/15$ ,  $\beta_{hs}/\beta_c = 24/15$ .

Note3: For subtest 2 the  $\beta_c/\beta_d$  ratio of 12/15 for the TFC during the measurement period(TF1,TF0) is achieved by setting the signaled gain factors for the reference TFC(TF1,TF1) to  $\beta_c = 11/15$  and  $\beta_d = 15/15$ .

## Measured Results

Mode	HSDPA Band 2			HSDPA Band 4		
Channel	9262	9400	9538	1312	1412	1513
Frequency(MHz)	1852.4	1880	1907.6	1712.4	1732.4	1752.6
sub-test1(dBm)	21.10	21.10	21.20	20.80	20.80	20.90
sub-test2(dBm)	21.10	21.10	21.20	20.80	20.80	20.90
sub-test3(dBm)	20.60	20.60	20.80	20.30	20.30	20.50
sub-test4(dBm)	20.60	20.60	20.70	20.30	20.30	20.40
Mode	HSDPA Band 5					
Channel	4132	4183	4233			
Frequency(MHz)	826.4	836.6	846.6			
sub-test1(dBm)	20.70	20.80	20.90			
sub-test2(dBm)	20.80	20.80	20.90			
sub-test3(dBm)	20.20	20.40	20.40			
sub-test4(dBm)	20.30	20.40	20.40			

## HSPA (HSDPA & HSUPA)

The following 5 Sub-tests were completed according to Release 6 procedures in section 5.2 of 3GPP TS34.121.

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

Note1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$ .

Note2: 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.

Note3: For subtest 1 the  $\beta_c/\beta_d$  ratio of 11/15 for the TFC during the measurement period(TF1,TF0) is achieved by setting the signaled gain factors for the reference TFC(TF1,TF1) to  $\beta_c=10/15$  and  $\beta_d=15/15$ .

Note4: For subtest 5 the  $\beta_c/\beta_d$  ratio of 15/15 for the TFC during the measurement period(TF1,TF0) is achieved by setting the signaled gain factors for the reference TFC(TF1,TF1) to  $\beta_c=14/15$  and  $\beta_d=15/15$ .

NOTE5: Testing UE using E-DPDCH Physical layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.

NOTE6:  $\beta_{ed}$  can not be set directly; it is set by Absolute Grant Value.

## Measured Results

Mode	HSUPA Band 2			HSUPA Band 4		
Channel	9262	9400	9538	1312	1412	1513
Frequency(MHz)	1852.4	1880	1907.6	1712.4	1732.4	1752.6
sub-test1(dBm)	19.40	19.40	19.40	19.10	19.10	19.10
sub-test2(dBm)	19.30	19.30	19.40	19.00	19.00	19.10
sub-test3(dBm)	19.40	19.40	19.40	19.10	19.10	19.10
sub-test4(dBm)	18.80	18.80	18.90	18.50	18.50	18.60
sub-test5(dBm)	21.30	21.40	21.30	21.00	21.10	21.00
Mode	HSUPA Band 5					
Channel	4132	4183	4233			
Frequency(MHz)	826.4	836.6	846.6			
sub-test1(dBm)	19.00	19.10	18.50			
sub-test2(dBm)	19.00	19.10	18.50			
sub-test3(dBm)	19.00	19.10	18.60			
sub-test4(dBm)	18.50	18.50	18.10			
sub-test5(dBm)	20.90	20.50	21.00			

UMTS SAR was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01.

HSPA SAR was not required since the average output power of the HSPA subtests was not more than 0.25 dB higher than the RMC level and SAR was less than 1.2 W/kg.



## 6.4 LTE Measurement result

Band 2

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Low Range	1.4	18607	1850.7	QPSK	1	Low	21.37
						Mid	21.49
						High	21.32
					50%	Low	21.31
						Mid	21.02
						High	21.22
				100%	---	21.31	
				16QAM	1	Low	21.21
						Mid	21.64
						High	21.19
					50%	Low	21.17
						Mid	21.90
	High	21.07					
	100%	---	21.31				
	3	18615	1851.5	QPSK	1	Low	21.09
						Mid	21.74
						High	21.10
					50%	Low	21.03
						Mid	21.10
						High	21.08
				100%	---	21.04	
				16QAM	1	Low	21.95
						Mid	21.73
						High	21.92
50%					Low	21.06	
					Mid	21.12	
	High	21.08					
100%	---	21.11					

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Low Range	5	18625	1852.5	QPSK	1	Low	21.14
						Mid	21.75
						High	21.04
					50%	Low	21.07
						Mid	21.03
						High	21.09
				100%	---	21.99	
				16QAM	1	Low	21.99
						Mid	21.75
						High	21.84
					50%	Low	21.05
						Mid	21.00
	High	21.03					
	100%	---	21.01				
	10	18650	1855	QPSK	1	Low	21.24
						Mid	21.25
						High	21.16
					50%	Low	21.06
						Mid	21.97
						High	21.03
				100%	---	21.99	
				16QAM	1	Low	21.06
						Mid	21.31
						High	21.93
50%					Low	21.09	
					Mid	21.00	
	High	21.03					
100%	---	20.96					

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Low Range	15	18675	1857.5	QPSK	1	Low	21.30
						Mid	21.95
						High	21.18
					50%	Low	21.02
						Mid	21.98
						High	21.96
				100%	---	21.04	
				16QAM	1	Low	21.10
						Mid	21.05
						High	21.98
					50%	Low	21.01
						Mid	20.97
	High	20.96					
	100%	---	21.00				
	20	18700	1860	QPSK	1	Low	22.50
						Mid	22.21
						High	22.17
					50%	Low	22.20
						Mid	21.96
						High	21.98
				100%	---	21.99	
				16QAM	1	Low	21.12
						Mid	21.32
						High	21.94
50%					Low	20.97	
					Mid	20.95	
	High	20.93					
100%	---	21.01					

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Mid Range	1.4	18900	1880	QPSK	1	Low	21.02
						Mid	21.11
						High	21.03
					50%	Low	21.80
						Mid	21.70
						High	21.88
				100%	---	21.92	
				16QAM	1	Low	21.89
						Mid	21.28
						High	21.91
					50%	Low	21.89
						Mid	21.54
	High	21.78					
	100%	---	20.97				
	3	18900	1880	QPSK	1	Low	21.06
						Mid	21.50
						High	21.97
					50%	Low	21.93
						Mid	21.87
						High	21.88
				100%	---	21.88	
				16QAM	1	Low	21.90
						Mid	21.76
						High	21.87
50%					Low	20.98	
					Mid	21.02	
	High	21.03					
100%	---	20.96					

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Mid Range	5	18900	1880	QPSK	1	Low	21.06
						Mid	21.60
						High	21.97
					50%	Low	21.93
						Mid	21.87
						High	21.88
				100%	---	21.80	
				16QAM	1	Low	21.94
						Mid	21.73
	High	21.85					
	50%	Low	20.91				
		Mid	20.87				
		High	20.89				
	100%	---	20.92				
	10	18900	1880	QPSK	1	Low	21.15
						Mid	21.18
						High	21.07
					50%	Low	21.88
Mid						21.86	
High						21.89	
100%				---	21.92		
16QAM				1	Low	21.97	
					Mid	21.34	
	High	21.91					
	50%	Low	21.00				
		Mid	20.95				
		High	20.97				
100%	---	20.95					

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Mid Range	15	18900	1880	QPSK	1	Low	21.17
						Mid	21.85
						High	21.06
					50%	Low	21.97
						Mid	21.93
						High	21.92
				100%	---	21.92	
				16QAM	1	Low	21.99
						Mid	21.01
						High	21.89
					50%	Low	20.97
						Mid	20.95
	High	20.96					
	100%	---	20.96				
	20	18900	1880	QPSK	1	Low	22.80
						Mid	22.07
						High	22.04
					50%	Low	22.50
						Mid	21.87
						High	21.88
				100%	---	21.88	
				16QAM	1	Low	21.99
						Mid	21.28
						High	21.84
50%					Low	20.92	
					Mid	20.91	
	High	20.88					
100%	---	20.95					

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
High Range	1.4	19193	1909.3	QPSK	1	Low	21.83
						Mid	21.93
						High	21.83
					50%	Low	21.76
						Mid	21.50
						High	21.69
				100%	---	21.81	
				16QAM	1	Low	21.67
						Mid	21.09
						High	21.69
					50%	Low	21.63
						Mid	21.37
	High	21.53					
	100%	---	20.82				
	3	19185	1908.5	QPSK	1	Low	21.72
						Mid	21.47
						High	21.78
					50%	Low	21.72
						Mid	21.79
						High	21.68
				100%	---	21.71	
				16QAM	1	Low	21.59
						Mid	21.48
						High	21.62
50%					Low	20.71	
					Mid	20.83	
	High	20.75					
100%	---	20.78					

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
High Range	5	19175	1907.5	QPSK	1	Low	21.87
						Mid	21.49
						High	21.79
					50%	Low	21.81
						Mid	21.73
						High	21.79
				100%	---	21.70	
				16QAM	1	Low	21.64
						Mid	21.50
						High	21.63
					50%	Low	20.77
						Mid	20.70
	High	20.76					
	100%	---	20.73				
	10	19150	1905	QPSK	1	Low	21.93
						Mid	21.97
						High	21.86
					50%	Low	21.85
						Mid	21.78
						High	21.79
				100%	---	21.71	
				16QAM	1	Low	21.65
						Mid	21.03
						High	21.68
50%					Low	20.82	
					Mid	20.76	
	High	20.77					
100%	---	20.68					



Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
High Range	15	19125	1902.5	QPSK	1	Low	21.99
						Mid	21.78
						High	21.90
					50%	Low	21.73
						Mid	21.66
						High	21.71
				100%	---	21.80	
				16QAM	1	Low	21.78
						Mid	21.79
						High	21.73
					50%	Low	20.70
						Mid	20.63
	High	20.71					
	100%	---	20.73				
	20	19100	1900	QPSK	1	Low	22.20
						Mid	21.99
						High	21.90
					50%	Low	22.00
						Mid	21.74
						High	21.70
				100%	---	21.71	
				16QAM	1	Low	21.88
						Mid	21.02
						High	21.66
50%					Low	20.74	
					Mid	20.68	
	High	20.69					
100%	---	20.73					

Band 4

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Low Range	1.4	19957	1710.7	QPSK	1	Low	21.47
						Mid	21.58
						High	21.45
					50%	Low	21.41
						Mid	21.10
						High	21.25
				100%	---	21.47	
				16QAM	1	Low	21.31
						Mid	21.73
						High	21.31
					50%	Low	21.27
						Mid	20.99
	High	21.19					
	100%	---	20.43				
	3	19965	1711.5	QPSK	1	Low	21.36
						Mid	21.03
						High	21.41
					50%	Low	21.36
						Mid	21.43
						High	21.37
				100%	---	21.38	
				16QAM	1	Low	21.26
						Mid	21.13
						High	21.26
50%					Low	20.31	
					Mid	20.39	
	High	20.40					
100%	---	20.42					

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Low Range	5	19975	1712.5	QPSK	1	Low	21.47
						Mid	21.10
						High	21.39
					50%	Low	21.39
						Mid	21.33
						High	21.38
				100%	---	21.27	
				16QAM	1	Low	21.32
						Mid	21.18
						High	21.31
					50%	Low	20.32
						Mid	20.26
	High	20.30					
	100%	---	20.28				
	10	20000	1715	QPSK	1	Low	21.45
						Mid	21.51
						High	21.45
					50%	Low	21.32
						Mid	21.26
						High	21.31
				100%	---	21.29	
				16QAM	1	Low	21.30
						Mid	21.68
						High	21.33
50%					Low	20.32	
					Mid	20.28	
	High	20.26					
100%	---	20.25					

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Low Range	15	20025	1717.5	QPSK	1	Low	21.43
						Mid	21.23
						High	21.49
					50%	Low	21.35
						Mid	21.31
						High	21.29
				100%	---	21.32	
				16QAM	1	Low	21.33
						Mid	21.41
						High	21.36
					50%	Low	20.35
						Mid	20.36
	High	20.31					
	100%	---	20.30				
	20	20050	1720	QPSK	1	Low	21.80
						Mid	21.45
						High	21.46
					50%	Low	21.80
						Mid	21.31
						High	21.29
				100%	---	21.26	
				16QAM	1	Low	21.35
						Mid	21.70
						High	21.31
50%					Low	20.27	
					Mid	20.26	
	High	20.28					
100%	---	20.28					

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Mid Range	1.4	20175	1732.5	QPSK	1	Low	21.27
						Mid	21.39
						High	21.20
					50%	Low	21.21
						Mid	21.94
						High	21.10
				100%	---	21.23	
				16QAM	1	Low	21.13
						Mid	21.54
						High	21.12
					50%	Low	21.08
						Mid	20.80
	High	20.99					
	100%	---	20.21				
	3	20175	1732.5	QPSK	1	Low	21.25
						Mid	21.85
						High	21.24
					50%	Low	21.20
						Mid	21.27
						High	21.25
				100%	---	21.20	
				16QAM	1	Low	21.14
						Mid	21.96
						High	21.10
50%					Low	20.21	
					Mid	20.31	
	High	20.25					
100%	---	20.26					

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Mid Range	5	20175	1732.5	QPSK	1	Low	21.31
						Mid	21.82
						High	21.23
					50%	Low	21.25
						Mid	21.14
						High	21.23
				100%	---	21.14	
				16QAM	1	Low	21.19
						Mid	21.95
	High	21.07					
	50%	Low	20.17				
		Mid	20.10				
		High	20.14				
	100%	---	20.16				
	10	20175	1732.5	QPSK	1	Low	21.40
						Mid	21.37
						High	21.31
					50%	Low	21.18
Mid						21.11	
High						21.19	
100%				---	21.16		
16QAM				1	Low	21.26	
					Mid	21.54	
	High	21.12					
	50%	Low	20.21				
		Mid	20.14				
		High	20.18				
100%	---	20.12					

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Mid Range	15	20175	1732.5	QPSK	1	Low	21.86
						Mid	21.06
						High	21.32
					50%	Low	21.18
						Mid	21.13
						High	21.14
				100%	---	21.16	
				16QAM	1	Low	21.23
						Mid	21.22
						High	21.11
					50%	Low	20.14
						Mid	20.12
	High	20.09					
	100%	---	20.14				
	20	20175	1732.5	QPSK	1	Low	22.00
						Mid	21.36
						High	21.39
					50%	Low	22.00
						Mid	21.57
						High	21.58
				100%	---	21.54	
				16QAM	1	Low	21.30
						Mid	21.52
						High	21.13
50%					Low	20.18	
					Mid	20.13	
	High	20.09					
100%	---	20.19					

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
High Range	1.4	20393	1754.3	QPSK	1	Low	21.38
						Mid	21.45
						High	21.37
					50%	Low	21.30
						Mid	21.02
						High	21.21
				100%	---	21.33	
				16QAM	1	Low	21.25
						Mid	21.63
						High	21.23
					50%	Low	21.20
						Mid	20.88
	High	21.08					
	100%	---	20.34				
	3	20385	1753.5	QPSK	1	Low	21.37
						Mid	21.00
						High	21.40
					50%	Low	21.30
						Mid	21.34
						High	21.30
				100%	---	21.34	
				16QAM	1	Low	21.27
						Mid	21.09
						High	21.26
50%					Low	20.32	
					Mid	20.39	
	High	20.36					
100%	---	20.38					



Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
High Range	5	20375	1752.5	QPSK	1	Low	21.40
						Mid	21.99
						High	21.36
					50%	Low	21.38
						Mid	21.30
						High	21.29
				100%	---	21.20	
				16QAM	1	Low	21.22
						Mid	21.09
						High	21.20
					50%	Low	20.27
						Mid	20.23
	High	20.25					
	100%	---	20.26				
	10	20350	1750	QPSK	1	Low	21.38
						Mid	21.46
						High	21.51
					50%	Low	21.23
						Mid	21.24
						High	21.23
				100%	---	21.25	
				16QAM	1	Low	21.27
						Mid	21.62
						High	21.30
50%					Low	20.29	
					Mid	20.27	
	High	20.33					
100%	---	20.26					

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
High Range	15	20325	1747.5	QPSK	1	Low	21.73
						Mid	21.21
						High	21.53
					50%	Low	21.27
						Mid	21.25
						High	21.31
				100%	---	21.30	
				16QAM	1	Low	21.21
						Mid	21.36
						High	21.37
					50%	Low	20.21
						Mid	20.23
	High	20.32					
	100%	---	20.29				
	20	20300	1745	QPSK	1	Low	21.50
						Mid	21.47
						High	21.50
					50%	Low	21.50
						Mid	21.29
						High	21.34
				100%	---	21.29	
				16QAM	1	Low	21.25
						Mid	21.63
						High	21.34
50%					Low	20.21	
					Mid	20.23	
	High	20.27					
100%	---	20.25					

Band 5

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Low Range	1.4	20407	821.7	QPSK	1	Low	21.20
						Mid	21.20
						High	21.20
					50%	Low	21.20
						Mid	21.20
						High	21.20
				100%	---	21.20	
				16QAM	1	Low	21.20
						Mid	21.20
						High	21.20
					50%	Low	21.20
						Mid	21.20
	High	21.10					
	100%	---	21.10				
	3	20415	825.5	QPSK	1	Low	21.30
						Mid	21.00
						High	21.00
					50%	Low	21.00
						Mid	21.00
						High	21.00
				100%	---	21.00	
				16QAM	1	Low	21.00
						Mid	21.00
						High	21.00
50%					Low	21.00	
					Mid	21.00	
	High	21.00					
100%	---	21.00					

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)	
Low Range	5	29425	826.5	QPSK	1	Low	21.10	
						Mid	21.10	
						High	21.10	
					50%	Low	21.10	
						Mid	21.10	
						High	21.10	
				100%	---	21.10		
				16QAM	1	Low	21.30	
						Mid	21.30	
	High	21.30						
	50%	Low	21.30					
		Mid	21.30					
		High	21.20					
	100%	---	21.20					
	10	20450	829	QPSK	1	Low	22.00	
						Mid	21.20	
						High	21.10	
					50%	Low	22.00	
						Mid	21.10	
						High	21.10	
					100%	---	21.10	
					16QAM	1	Low	21.10
							Mid	21.10
				High			21.10	
50%				Low		21.10		
				Mid		21.10		
				High		21.10		
100%				---	21.10			

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Mid Range	1.4	20525	836.5	QPSK	1	Low	21.20
						Mid	21.10
						High	21.10
					50%	Low	21.20
						Mid	21.10
						High	21.10
				100%	---	21.10	
				16QAM	1	Low	21.20
						Mid	21.20
						High	21.20
					50%	Low	21.20
						Mid	21.20
	High	21.20					
	100%	---	21.20				
	3	20525	836.5	QPSK	1	Low	21.10
						Mid	21.10
						High	21.10
					50%	Low	21.10
						Mid	21.10
						High	21.10
				100%	---	21.10	
				16QAM	1	Low	21.10
						Mid	21.10
						High	21.10
50%					Low	21.10	
					Mid	21.10	
	High	21.10					
100%	---	21.10					

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Mid Range	5	20525	836.5	QPSK	1	Low	21.30
						Mid	21.30
						High	21.30
					50%	Low	21.30
						Mid	21.30
						High	21.30
				100%	---	21.30	
				16QAM	1	Low	21.50
						Mid	21.50
	High	21.50					
	50%	Low	21.40				
		Mid	21.40				
		High	21.40				
	100%	---	21.40				
	10	20525	836.5	QPSK	1	Low	22.20
						Mid	21.20
						High	21.10
					50%	Low	22.30
Mid						21.10	
High						21.10	
100%				---	21.10		
16QAM				1	Low	21.00	
					Mid	21.10	
	High	21.10					
	50%	Low	21.10				
		Mid	21.00				
		High	21.10				
100%	---	21.10					

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
High Range	1.4	20643	848.3	QPSK	1	Low	21.50
						Mid	21.00
						High	21.60
					50%	Low	21.00
						Mid	21.10
						High	21.00
				100%	---	21.00	
				16QAM	1	Low	21.10
						Mid	21.10
	High	21.10					
	50%	Low	21.10				
		Mid	21.10				
		High	21.10				
	100%	---	21.10				
	3	20635	847.5	QPSK	1	Low	21.00
						Mid	21.50
						High	21.60
					50%	Low	21.00
Mid						21.70	
High						21.70	
100%				---	21.10		
16QAM				1	Low	21.00	
					Mid	21.00	
	High	21.00					
	50%	Low	21.00				
		Mid	21.00				
		High	21.00				
100%	---	21.00					

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
High Range	5	20625	846.5	QPSK	1	Low	21.20
						Mid	21.10
						High	21.10
					50%	Low	21.10
						Mid	21.10
						High	21.10
				100%	---	21.10	
				16QAM	1	Low	21.20
						Mid	21.20
	High	21.20					
	50%	Low	21.20				
		Mid	21.20				
		High	21.20				
	100%	---	21.20				
	10	20600	844	QPSK	1	Low	21.80
						Mid	21.10
						High	21.10
					50%	Low	22.00
Mid						21.10	
High						21.10	
100%				---	21.10		
16QAM				1	Low	21.10	
					Mid	21.10	
	High	21.10					
	50%	Low	21.10				
		Mid	21.00				
		High	21.10				
100%	---	21.10					



Band 7

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Low Range	5	20775	2502.5	QPSK	1	Low	21.40
						Mid	21.30
						High	21.40
					50%	Low	21.40
						Mid	21.30
						High	21.30
				100%	---	21.30	
				16QAM	1	Low	20.60
						Mid	20.60
						High	21.10
					50%	Low	20.60
						Mid	20.50
	High	20.90					
	100%	---	20.60				
	10	20800	2505	QPSK	1	Low	21.20
						Mid	21.20
						High	21.20
					50%	Low	21.20
						Mid	21.20
						High	21.20
				100%	---	21.10	
				16QAM	1	Low	21.20
						Mid	21.20
						High	21.20
50%					Low	21.20	
					Mid	21.20	
	High	21.20					
100%	---	21.10					

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)	
Low Range	15	20825	2507.5	QPSK	1	Low	21.70	
						Mid	21.70	
						High	21.70	
					50%	Low	21.70	
						Mid	21.70	
						High	21.70	
				100%	---	21.70		
				16QAM	1	Low	20.60	
						Mid	20.80	
	High	20.60						
	50%	Low	21.40					
		Mid	21.30					
		High	21.30					
	100%	---	21.40					
	20	20850	2510		QPSK	1	Low	21.60
							Mid	21.60
							High	21.60
						50%	Low	21.40
Mid							21.00	
High							21.00	
100%					---	21.80		
16QAM					1	Low	21.30	
						Mid	21.30	
	High	21.20						
	50%	Low	21.30					
		Mid	21.30					
		High	21.30					
100%	---	21.30						

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Mid Range	5	21100	2535	QPSK	1	Low	21.50
						Mid	21.50
						High	21.50
					50%	Low	21.50
						Mid	21.50
						High	21.50
				100%	---	21.50	
				16QAM	1	Low	20.80
						Mid	20.80
						High	20.60
					50%	Low	20.60
						Mid	20.80
	High	20.60					
	100%	---	20.50				
	10	21100	2535	QPSK	1	Low	21.70
						Mid	21.70
						High	21.70
					50%	Low	21.90
						Mid	21.00
						High	21.00
				100%	---	21.90	
				16QAM	1	Low	21.00
						Mid	21.00
						High	21.00
50%					Low	21.00	
					Mid	21.10	
	High	21.10					
100%	---	21.10					

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Mid Range	15	21100	2535	QPSK	1	Low	21.30
						Mid	21.20
						High	21.20
					50%	Low	21.30
						Mid	21.40
						High	21.20
				100%	---	21.10	
				16QAM	1	Low	21.00
						Mid	21.00
						High	21.00
					50%	Low	21.00
						Mid	21.00
	High	21.10					
	100%	---	21.10				
	20	21100	2535	QPSK	1	Low	22.40
						Mid	22.30
						High	22.30
					50%	Low	22.50
						Mid	22.30
						High	22.30
				100%	---	22.10	
				16QAM	1	Low	21.90
						Mid	21.90
						High	21.80
50%					Low	21.80	
					Mid	21.80	
	High	21.80					
100%	---	21.70					

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
High Range	5	21425	2567.5	QPSK	1	Low	21.10
						Mid	21.10
						High	21.10
					50%	Low	21.10
						Mid	21.10
						High	21.10
				100%	---	21.10	
				16QAM	1	Low	21.30
						Mid	21.30
						High	21.30
					50%	Low	21.30
						Mid	21.20
	High	21.20					
	100%	---	21.20				
	10	21400	2565	QPSK	1	Low	21.80
						Mid	21.80
						High	21.80
					50%	Low	21.70
						Mid	21.70
						High	21.70
				100%	---	21.70	
				16QAM	1	Low	21.70
						Mid	21.70
						High	21.70
50%					Low	21.70	
					Mid	21.80	
	High	21.70					
100%	---	21.60					

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
High Range	15	21375	2562.5	QPSK	1	Low	21.30
						Mid	21.40
						High	21.40
					50%	Low	21.40
						Mid	21.40
						High	21.40
				100%	---	21.30	
				16QAM	1	Low	21.40
						Mid	21.40
						High	21.40
					50%	Low	21.40
						Mid	21.40
	High	21.40					
	100%	---	21.30				
	20	21350	2560	QPSK	1	Low	22.00
						Mid	22.00
						High	22.00
					50%	Low	22.00
						Mid	22.00
						High	22.00
				100%	---	22.90	
				16QAM	1	Low	21.30
						Mid	21.30
						High	21.30
50%					Low	21.30	
					Mid	21.30	
	High	21.30					
100%	---	21.30					

## 6.5 Bluetooth Measurement result

Modulation type	Test Result (dBm)		
	2402MHz(Ch0)	2441MHz(Ch39)	2480MHz(Ch78)
GFSK	-3.45	-4.58	-5.19
$\pi/4$ DQPSK	-3.27	-4.39	-5.36
8DPSK	-3.11	-4.59	-5.89
GFSK(BLE)	2402MHz(Ch0)	2440MHz(Ch19)	2480MHz(Ch39)
	1.31	1.14	1.18

Modulation type	Test Result (mW)		
	2402MHz(Ch0)	2441MHz(Ch39)	2480MHz(Ch78)
GFSK	0.45	0.35	0.30
$\pi/4$ DQPSK	0.47	0.36	0.29
8DPSK	0.49	0.35	0.26
GFSK(BLE)	2402MHz(Ch0)	2440MHz(Ch19)	2480MHz(Ch39)
	1.35	1.30	1.31

## 6.6 Wi-Fi Measurement result

Modulation type		Average power output (dBm)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462MHz (Ch11)
11b	1 Mbps	12.03	12.16	12.12
	2 Mbps	11.98	11.85	11.89
	5.5 Mbps	11.83	11.72	11.67
	11 Mbps	11.76	11.69	11.52
11g	6 Mbps	10.98	11.12	11.03
	9 Mbps	10.83	11.02	10.93
	12 Mbps	10.72	10.93	10.88
	18 Mbps	10.66	10.82	10.75
	24 Mbps	10.53	10.71	10.69
	36 Mbps	10.47	10.49	10.48
	48 Mbps	10.38	10.35	10.36
11n HT20	54 Mbps	10.32	10.26	10.18
	6.5 Mbps	10.81	10.92	10.85
	13 Mbps	10.72	10.73	10.72
	19.5 Mbps	10.64	10.48	10.53
	26 Mbps	10.52	10.27	10.39
	39 Mbps	10.44	10.04	10.27
	52 Mbps	10.12	9.89	10.17
	58.5 Mbps	9.63	9.72	9.92
65 Mbps	9.22	9.42	9.71	



Modulation type		Average power output (mW)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462MHz (Ch11)
11b	1 Mbps	15.96	16.44	16.29
	2 Mbps	15.78	15.31	15.45
	5.5 Mbps	15.24	14.86	14.69
	11 Mbps	15.00	14.76	14.19
11g	6 Mbps	12.53	12.94	12.68
	9 Mbps	12.11	12.65	12.39
	12 Mbps	11.80	12.39	12.25
	18 Mbps	11.64	12.08	11.89
	24 Mbps	11.30	11.78	11.72
	36 Mbps	11.14	11.19	11.17
	48 Mbps	10.91	10.84	10.86
	54 Mbps	10.76	10.62	10.42
11n HT20	6.5 Mbps	12.05	12.36	12.16
	13 Mbps	11.80	11.83	11.80
	19.5 Mbps	11.59	11.17	11.30
	26 Mbps	11.27	10.64	10.94
	39 Mbps	11.07	10.09	10.64
	52 Mbps	10.28	9.75	10.40
	58.5 Mbps	9.18	9.38	9.82
	65 Mbps	8.36	8.75	9.35

## 6.7 Standalone SAR Test Exclusion Considerations

Standalone 1-g head or body SAR evaluation by measurement or numerical simulation is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

### SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and $\leq 50$ mm

According to the KDB447498 4.3.1 (1)

For 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f} (\text{GHz})] \leq 3.0$  for 1-g SAR, where

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

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

This is equivalent to  $[(\text{max. power of channel, including tune-up tolerance, mW}) / (60 / \sqrt{f} (\text{GHz}) \text{ mW})] \cdot [20 \text{ mm} / (\text{min. test separation distance, mm})] \leq 1.0$  for 1-g SAR; also see Appendix A for approximate exclusion threshold values at selected frequencies and distances.

According to the KDB447498 appendix A

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

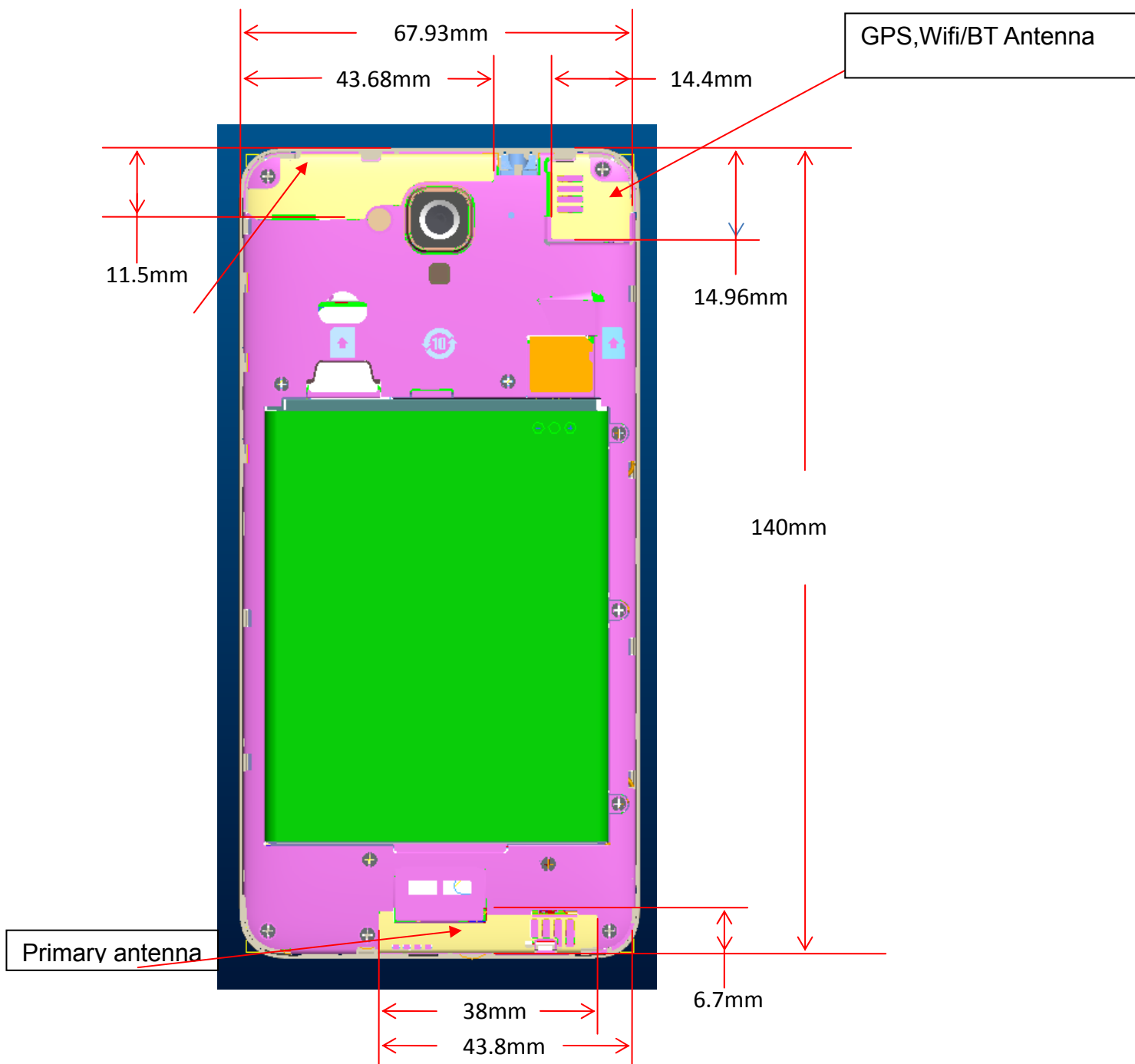
MHz	5	10	15	20	25	mm
150	39	77	116	155	194	<i>SAR Test Exclusion Threshold (mW)</i>
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

#### Summary of Transmitters

Band/Mode	Max.RF output power (mW)	SAR test exclusion Threshold (mW)	SAR Required
(2.4~2.4835)GHz Bluetooth	1.35	19	No
(2.4~2.4835)GHz WLAN	16.44	19	No

### 6.8 RF exposure conditions

Refer to the follow picture“Antenna Locations & Separation Distances” for the specific details of the antenna-to-antenna and antenna-to-edge(s) distances.



### 6.8.1 Head Exposure Conditions

For WWAN,

Test Configurations	SAR Required	Note
Left Touch	yes	/
Left Tilt (15°)	yes	/
Right Touch	yes	/
Right Tilt (15°)	yes	/

### 6.8.2 Body-worn Accessory Exposure conditions

For WWAN

Test Configurations	SAR Required	Note
Rear	yes	/
Front	yes	/

For WiFi

Test Configurations	SAR Required	Note
Rear	yes	/
Front	yes	/

### 6.8.3 Hotspot Exposure Conditions

For WWAN

Test Configurations	Antenna-to-edge/surface	SAR Required
Rear	<25 mm	Yes
Front	<25 mm	Yes
Edge 1	135 mm	No
Edge 2	0 mm	Yes
Edge 3	25 mm	Yes
Edge 4	7 mm	Yes

For Wi-Fi

Test Configurations	Antenna-to-edge/surface	SAR Required
Rear	<25 mm	Yes
Front	<25 mm	Yes
Edge 1	0 mm	Yes
Edge 2	124 mm	No
Edge 3	53 mm	No
Edge 4	0 mm	Yes

## 6.9 System Checking

The manufacturer calibrates the probes annully. Dielectric parameters of the tissue simulants were measured every day using the dielectric probe kit and the network analyser. A system check measurement was made following the determination of the dielectric parameters of the simulant, using the dipole validation kit. A power level of 250 mW was supplied to the dipole antenna, which was placed under the flat section of the twin SAM phantom. The system checking results (dielectric parameters and SAR values) are given in the table below.

Date Tested	System dipole	T.S. Liquid	SAR measured (normalized to 1W)		Target (Ref.Value)	Delta (%)	Tolerance (%)
			1g				
2017.05.02	D835V2	Head	1g	9.36	9.45	-0.95	±10
2017.05.02	D835V2	Body	1g	9.32	9.62	-3.12	±10
2017.05.03	D1900V2	Head	1g	39.28	40.70	-3.49	±10
2017.05.03	D1900V2	Body	1g	39.36	39.80	-1.11	±10
2017.05.04	D2450V2	Head	1g	52.48	51.20	1.95	±10
2017.05.04	D2450V2	Body	1g	51.72	50.80	1.81	±10

Date Tested	System dipole	T.S. Liquid	SAR measured (normalized to 1W)		Target (Ref.Value)	Delta (%)	Tolerance (%)
			1g				
2017.10.15	D835V2	Head	1g	9.68	9.45	2.43	±10
2017.10.15	D835V2	Body	1g	9.12	9.62	-5.20	±10
2017.10.15	D1900V2	Head	1g	39.64	40.70	-2.60	±10
2017.10.15	D1900V2	Body	1g	37.76	39.80	-5.13	±10
2017.10.16	D2450V2	Head	1g	50.56	51.20	-1.25	±10
2017.10.16	D2450V2	Body	1g	52.44	50.80	3.23	±10

Plots of the system checking scans are given in Appendix A.

Tissue Simulants used in the Measurements

For the measurement of the following parameters the SPEAG DAKS-3.5 dielectric parameter probe is used, representing the open-ended coaxial probe measurement procedure.

Date Tested	Freq.(MHz)	Liquid parameters	measured	Target	Delta(%)	Tolerance(%)
2017.05.02	Head 835	$\epsilon_r$	42.11	41.50	-1.47	$\pm 5$
		$\sigma$ [S/m]	0.91	0.90	1.11	$\pm 5$
2017.05.02	Body 835	$\epsilon_r$	53.85	55.20	-2.45	$\pm 5$
		$\sigma$ [S/m]	0.98	0.97	1.03	$\pm 5$
2017.05.03	Head 1900	$\epsilon_r$	40.84	40.00	2.10	$\pm 5$
		$\sigma$ [S/m]	1.41	1.40	0.71	$\pm 5$
2017.05.03	Body 1900	$\epsilon_r$	52.18	53.30	-2.10	$\pm 5$
		$\sigma$ [S/m]	1.53	1.52	0.66	$\pm 5$
2017.05.04	Head 2450	$\epsilon_r$	39.21	39.20	0.03	$\pm 5$
		$\sigma$ [S/m]	1.79	1.80	-0.56	$\pm 5$
2017.05.04	Body 2450	$\epsilon_r$	52.04	52.70	-1.25	$\pm 5$
		$\sigma$ [S/m]	1.97	1.95	1.03	$\pm 5$

Date Tested	Freq.(MHz)	Liquid parameters	measured	Target	Delta(%)	Tolerance(%)
2017.10.15	Head 835	$\epsilon_r$	42.25	41.50	1.81	$\pm 5$
		$\sigma$ [S/m]	0.89	0.90	-1.11	$\pm 5$
2017.10.15	Body 835	$\epsilon_r$	53.73	55.20	-2.66	$\pm 5$
		$\sigma$ [S/m]	0.99	0.97	2.06	$\pm 5$
2017.10.15	Head 1900	$\epsilon_r$	40.77	40.00	1.93	$\pm 5$
		$\sigma$ [S/m]	1.42	1.40	1.43	$\pm 5$
2017.10.15	Body 1900	$\epsilon_r$	52.78	53.30	-0.98	$\pm 5$
		$\sigma$ [S/m]	1.49	1.52	1.97	$\pm 5$
2017.10.16	Head 2450	$\epsilon_r$	39.46	39.20	0.89	$\pm 5$
		$\sigma$ [S/m]	1.83	1.80	1.67	$\pm 5$
2017.10.16	Body 2450	$\epsilon_r$	52.44	52.70	-0.49	$\pm 5$
		$\sigma$ [S/m]	1.94	1.95	-0.51	$\pm 5$

## 6.10 SAR TEST RESULT

In order to determine the largest value of the peak spatial-average SAR of a handset, all device positions, configurations, and operational modes should be tested for each frequency band according to Steps 1 to 3 below.

Step 1: The tests should be performed at the channel that is closest to the center of the transmit frequency band.

a) All device positions (cheek and tilt, for both left and right sides of the SAM phantom),  
b) All configurations for each device position in a), e.g., antenna extended and retracted, and  
c) All operational modes for each device position in item a) and configuration in item b) in each frequency band, e.g., analog and digital, If more than three frequencies need to be tested (i.e.,  $N_c > 3$ ), then all frequencies, configurations and modes shall be tested for all of the above test conditions.

Step 2: For the condition providing the highest peak spatial-average SAR determined in Step 1 for each frequency, perform all tests at all other test frequency channels, e.g., lowest and highest frequencies. In addition, for all other conditions (device position, configuration, and operational mode) where the peak spatial-average SAR value determined in Step 1 is within 3 dB of the applicable SAR limit, it is recommended that all other test frequencies should be tested as well.

Step 3: Examine all data to determine the largest value of the peak.

Note:

1. Per KDB 447498 D01v05, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.

Scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.

Reported SAR (W/kg) = Measured SAR (W/kg)\* Scaling Factor

2. Per KDB 447498 D01v05, for each exposure position, if the highest output channel reported SAR  $\leq 0.8$ W/kg, other channels SAR testing are not necessary.

3. In the report the test position "Mobile phone screen Towards Ground" abbreviated as "TG", and "Mobile phone screen Towards Phantom" abbreviated as "TP".



The measured and reported Head/body SAR values for the test device are tabulated below:

**Mode: GSM 850**

fL(MHz)=824.2MHz

fM(MHz)=836.5MHz

fH(MHz)= 848.8MHz

SAR Values(Head,850MHz Band)

**Limit of SAR (W/kg) : <1.6W/kg (1g Average)**

Test Case		Ch	Measure Conducted Power (dBm)	Tune-up limit (dBm)	Scaling Factor	Measure Results ( W/kg)	Reported Results ( W/kg)
position	mode					1g Average	1g Average
Left cheek	GSM	L	32.91	34	1.29	---	---
		M	32.94	34	1.28	0.076	0.098
		H	32.92	34	1.28	---	---
Left Tilted		L	32.91	34	1.29	---	---
		M	32.94	34	1.28	0.028	0.036
		H	32.92	34	1.28	---	---
Right cheek		L	32.91	34	1.29	---	---
		M	32.94	34	1.28	0.252	0.322
		H	32.92	34	1.28	---	---
Right Tilted	L	32.91	34	1.29	---	---	
	M	32.94	34	1.28	0.128	0.163	
	H	32.92	34	1.28	---	---	

**Mode: GSM850 (GSM/GPRS/EGPRS)**

fL(MHz)=824.2MHz      fM(MHz)=836.6MHz      fH(MHz)= 848.8MHz

SAR Values(body,850MHz Band)

**Limit of SAR (W/kg) : <1.6W/kg (1g Average)**

Test Case		Ch	Measure Conducted Power (dBm)	Tune-up limit (dBm)	Scaling Factor	Measure Results ( W/kg)	Reported Results ( W/kg)
position	mode					1 g Average	1g Average
TG	GSM With headset	L	32.91	34	1.29	---	---
		M	32.94	34	1.28	0.420	0.536
		H	32.92	34	1.28	---	---
	GPRS	L	28.30	29	1.17	---	---
		M	28.17	29	1.21	0.783	0.948
		H	28.11	29	1.23	---	---
	EGPRS	L	28.30	29	1.17	---	---
		M	28.17	29	1.21	0.787	0.953
		M(retest)	28.17	29	1.21	0.685	0.829
		H	28.11	29	1.23	---	---
TP	GSM With headset	L	32.91	34	1.29	---	---
		M	32.94	34	1.28	0.367	0.468
		H	32.92	34	1.28	---	---
	GPRS	L	28.30	29	1.17	---	---
		M	28.17	29	1.21	0.702	0.850
		H	28.11	29	1.23	---	---
	EGPRS	L	28.30	29	1.17	---	---
		M	28.17	29	1.21	0.705	0.853
		H	28.11	29	1.23	---	---
Hotspot EDGE 2	EGPRS	L	28.30	29	1.17	---	---
		M	28.17	29	1.21	0.382	0.462
		H	28.11	29	1.23	---	---
Hotspot EDGE 3		L	28.30	29	1.17	---	---
		M	28.17	29	1.21	0.709	0.858
		H	28.11	29	1.23	---	---
Hotspot EDGE 4		L	28.30	29	1.17	---	---
		M	28.17	29	1.21	0.343	0.415
		H	28.11	29	1.23	---	---

Note: The test result of variation product is better than the original test data. So the original test data retain and adopted as the final test result.

M is the original test data, M(retest) is the new test data(variation).

The distance between the EUT and the phantom bottom is 10mm.

**Mode: GSM1900**

fL(MHz)=1850.2MHz      fM(MHz)=1880.0MHz      fH(MHz)=1909.8MHz

SAR Values(Head,1900MHz Band)

**Limit of SAR (W/kg) : <1.6W/kg(1g Average)**

Test Case		CH	Measure Conducted Power (dBm)	Tune-up limit (dBm)	Scaling Factor	Measure Results ( W/kg)	Reported Results ( W/kg)
position	mode					1g Average	1g Average
Left cheek	GSM	L	29.97	31	1.27	---	---
		M	29.98	31	1.26	0.213	0.269
		H	29.91	31	1.29	---	---
Left Tilted		L	29.97	31	1.27	---	---
		M	29.98	31	1.26	0.069	0.087
		H	29.91	31	1.29	---	---
Right cheek		L	29.97	31	1.27	---	---
		M	29.98	31	1.26	0.155	0.196
		H	29.91	31	1.29	---	---
Right Tilted	L	29.97	31	1.27	---	---	
	M	29.98	31	1.26	0.056	0.071	
	H	29.91	31	1.29	---	---	

**Mode: GSM1900 (GSM/GPRS/EGPRS)**

fL(MHz)=1850.2MHz      fM(MHz)=1880.0MHz      fH(MHz)=1909.8MHz

SAR Values(body,1900MHz Band)

**Limit of SAR (W/kg) :<1.6W/kg(1g Average)**

Test Case		CH	Measure Conducted Power (dBm)	Tune-up limit (dBm)	Scaling Factor	Measure Results ( W/kg)	Reported Results ( W/kg)
position	mode					1 g Average	1g Average
TG	GSM With headset	L	29.97	31	1.27	---	---
		M	29.98	31	1.26	0.523	0.661
		H	29.91	31	1.29	---	---
	GPRS	L	25.00	26	1.26	---	---
		M	25.01	26	1.26	0.757	0.951
		H	24.99	26	1.26	---	---
	EGPRS	L	25.00	26	1.26	---	---
		M	25.01	26	1.26	0.781	0.981
		M(retest)	25.01	26	1.26	0.726	0.915
		H	24.99	26	1.26	---	---
TP	GSM With headset	L	29.97	31	1.27	---	---
		M	29.98	31	1.26	0.213	0.269
		H	29.91	31	1.29	---	---
	GPRS	L	25.00	26	1.26	---	---
		M	25.01	26	1.26	0.418	0.525
		H	24.99	26	1.26	---	---
	EGPRS	L	25.00	26	1.26	---	---
		M	25.01	26	1.26	0.488	0.613
		H	24.99	26	1.26	---	---
Hotspot EDGE 2	EGPRS	L	25.00	26	1.26	---	---
		M	25.01	26	1.26	0.453	0.569
		H	24.99	26	1.26	---	---
Hotspot EDGE 3		L	25.00	26	1.26	---	---
		M	25.01	26	1.26	0.116	0.146
		H	24.99	26	1.26	---	---
Hotspot EDGE 4		L	25.00	26	1.26	---	---
		M	25.01	26	1.26	0.168	0.211
		H	24.99	26	1.26	---	---

Note: The test result of variation product is better than the original test data. So the original test data retain and adopted as the final test result.

M is the original test data, M(retest) is the new test data(variation).

The distance between the EUT and the phantom bottom is 10mm.

**Mode: WCDMA BAND2**

fL(MHz)=1852.4MHz      fM(MHz)=1880MHz      fH(MHz)= 1907.6MHz

SAR Values(Head,WCDMA BAND2)

**Limit of SAR (W/kg):<1.6W/kg(1g Average)**

Test Case		CH	Measure Conducted Power (dBm)	Tune-up limit (dBm)	Scaling Factor	Measure Results ( W/kg)	Reported Results ( W/kg)
position	mode					1 g Average	1g Average
Left cheek	VOICE	L	22.62	24	1.37	---	---
		M	22.65	24	1.36	0.372	0.508
		H	22.61	24	1.38	---	---
Left Tilted		L	22.62	24	1.37	---	---
		M	22.65	24	1.36	0.126	0.172
		H	22.61	24	1.38	---	---
Right cheek		L	22.62	24	1.37	---	---
		M	22.65	24	1.36	0.250	0.341
		H	22.61	24	1.38	---	---
Right Tilted	L	22.62	24	1.37	---	---	
	M	22.65	24	1.36	0.087	0.118	
	H	22.61	24	1.38	---	---	

**Mode: WCDMA BAND2**

fL(MHz)=1852.4MHz      fM(MHz)=1880MHz      fH(MHz)= 1907.6MHz

SAR Values(body,WCDMA BAND2)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

Test Case		CH	Measure e Conduc ted Power (dBm)	Tune-up limit (dBm)	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
Position	mode					1 g Average	1g Average
TG	VOICE	L	22.62	24	1.37	---	---
		M	22.65	24	1.36	0.572	0.781
		M(retest)	22.65	24	1.36	0.491	0.725
	DATA	H	22.61	24	1.38	---	---
		L	22.62	24	1.37	---	---
		M	22.65	24	1.36	0.568	0.775
TP	VOICE	H	22.61	24	1.38	---	---
		L	22.62	24	1.37	---	---
		M	22.65	24	1.36	0.454	0.620
	DATA	H	22.61	24	1.38	---	---
		L	22.62	24	1.37	---	---
		M	22.65	24	1.36	0.418	0.570
Hotspot EDGE2	DATA	H	22.61	24	1.38	---	---
		L	22.62	24	1.37	---	---
		M	22.65	24	1.36	0.541	0.738
Hotspot EDGE3	DATA	H	22.61	24	1.38	---	---
		L	22.62	24	1.37	---	---
		M	22.65	24	1.36	0.080	0.109
Hotspot EDGE4	DATA	H	22.61	24	1.38	---	---
		L	22.62	24	1.37	---	---
		M	22.65	24	1.36	0.382	0.521

Note: The test result of variation product is better than the original test data. So the original test data retain and adopted as the final test result.

M is the original test data, M(retest) is the new test data(variation).

The distance between the EUT and the phantom bottom is 10mm.

**Mode: WCDMA BAND4**

fL(MHz)=1712.4MHz      fM(MHz)=1732.4MHz      fH(MHz)= 1752.6MHz

SAR Values(Head,WCDMA BAND4)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

Test Case		CH	Measure Conducted Power (dBm)	Tune-uplimit (dBm)	Scaling Factor	Measure Results ( W/kg)	Reported Results ( W/kg)
Position	mode					1 g Average	1g Average
Left cheek	VOICE	L	22.38	24	1.45	---	---
		M	22.41	24	1.44	0.353	0.509
		H	22.37	24	1.46	---	---
Left Tilted		L	22.38	24	1.45	---	---
		M	22.41	24	1.44	0.200	0.288
		H	22.37	24	1.46	---	---
Right cheek		L	22.38	24	1.45	---	---
		M	22.41	24	1.44	0.246	0.355
		H	22.37	24	1.46	---	---
Right Tilted	L	22.38	24	1.45	---	---	
	M	22.41	24	1.44	0.170	0.245	
	H	22.37	24	1.46	---	---	

**Mode: WCDMA BAND4**

fL(MHz)=1712.4MHz      fM(MHz)=1732.4MHz      fH(MHz)= 1752.6MHz

SAR Values(body,WCDMA BAND4)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

Test Case		CH	Measure Conducted Power (dBm)	Tune-up limit (dBm)	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
Position	mode					1 g Average	1g Average
TG	VOICE	L	22.38	24	1.45	---	---
		M	22.41	24	1.44	0.662	0.955
		H	22.37	24	1.46	---	---
	DATA	L	22.38	24	1.45	---	---
		M	22.41	24	1.44	0.702	1.012
		M(retest)	22.41	24	1.44	0.638	0.919
TP	VOICE	L	22.38	24	1.45	---	---
		M	22.41	24	1.44	0.380	0.548
		H	22.37	24	1.46	---	---
	DATA	L	22.38	24	1.45	---	---
		M	22.41	24	1.44	0.402	0.580
		H	22.37	24	1.46	---	---
Hotspot EDGE2	DATA	L	22.38	24	1.45	---	---
		M	22.41	24	1.44	0.373	0.538
		H	22.37	24	1.46	---	---
Hotspot EDGE3	DATA	L	22.38	24	1.45	---	---
		M	22.41	24	1.44	0.130	0.187
		H	22.37	24	1.46	---	---
Hotspot EDGE4	DATA	L	22.38	24	1.45	---	---
		M	22.41	24	1.44	0.186	0.268
		H	22.37	24	1.46	---	---

Note: The test result of variation product is better than the original test data. So the original test data retain and adopted as the final test result.

M is the original test data, M(retest) is the new test data(variation).

The distance between the EUT and the phantom bottom is 10mm.



**Mode: WCDMA BAND5**

fL(MHz)=826.4MHz fM(MHz)=836.6MHz fH(MHz)= 846.6MHz

SAR Values(Head,WCDMA BAND5)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

Test Case		CH	Measure Conducted Power (dBm)	Tune-uplimit (dBm)	Scaling Factor	Measure Results ( W/kg)	Reported Results ( W/kg)
Position	mode					1 g Average	1g Average
Left cheek	VOCIE	L	22.48	24	1.42	---	---
		M	22.56	24	1.39	0.135	0.188
		H	22.55	24	1.40	---	---
Left Tilted		L	22.48	24	1.42	---	---
		M	22.56	24	1.39	0.065	0.091
		H	22.55	24	1.40	---	---
Right cheek		L	22.48	24	1.42	---	---
		M	22.56	24	1.39	0.141	0.196
		H	22.55	24	1.40	---	---
Right Tilted	L	22.48	24	1.42	---	---	
	M	22.56	24	1.39	0.098	0.137	
	H	22.55	24	1.40	---	---	

**Mode: WCDMA BAND5**

fL(MHz)=826.4MHz      fM(MHz)=836.6MHz      fH(MHz)= 846.6MHz

SAR Values(body,WCDMA BAND5)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

Test Case		CH	Measure Conducted Power (dBm)	Tune-up limit (dBm)	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
Position	mode					1 g Average	1g Average
TG	VOICE	L	22.48	24	1.42	---	---
		M	22.56	24	1.39	0.336	0.468
		M(retest)	22.56	24	1.39	0.288	0.400
	DATA	H	22.55	24	1.40	---	---
		L	22.48	24	1.42	---	---
		M	22.56	24	1.39	0.335	0.467
TP	VOICE	H	22.55	24	1.40	---	---
		L	22.48	24	1.42	---	---
		M	22.56	24	1.39	0.280	0.390
	DATA	H	22.55	24	1.40	---	---
		L	22.48	24	1.42	---	---
		M	22.56	24	1.39	0.330	0.460
Hotspot EDGE2	DATA	H	22.55	24	1.40	---	---
		L	22.48	24	1.42	---	---
		M	22.56	24	1.39	0.011	0.016
Hotspot EDGE3	DATA	H	22.55	24	1.40	---	---
		L	22.48	24	1.42	---	---
		M	22.56	24	1.39	0.114	0.159
Hotspot EDGE4	DATA	H	22.55	24	1.40	---	---
		L	22.48	24	1.42	---	---
		M	22.56	24	1.39	0.107	0.149

Note: The test result of variation product is better than the original test data. So the original test data retain and adopted as the final test result.

M is the original test data, M(retest) is the new test data(variation).

The distance between the EUT and the phantom bottom is 10mm.

**Mode: LTE BAND2- 20BW-1RB**

fL(MHz)=1860MHz fM(MHz)=1880MHz fH(MHz)= 1900MHz

SAR Values(Head,LTE BAND2)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

Test Case		CH	Measure Conducted Power (dBm)	Tune-uplimit (dBm)	Scaling Factor	Measure Results ( W/kg)	Reported Results ( W/kg)
Position	mode					1 g Average	1g Average
Left cheek	20 BW 1RB	L	22.50	23	1.12	0.327	0.367
		M	22.80	23	1.05	0.443	0.464
		H	22.20	23	1.20	0.333	0.400
Left Tilted		L	22.50	23	1.12	---	---
		M	22.80	23	1.05	0.107	0.112
		H	22.20	23	1.20	---	---
Right cheek		L	22.50	23	1.12	---	---
		M	22.80	23	1.05	0.189	0.198
		H	22.20	23	1.20	---	---
Right Tilted	L	22.50	23	1.12	---	---	
	M	22.80	23	1.05	0.075	0.079	
	H	22.20	23	1.20	---	---	

**Mode: LTE BAND2- 20BW-1RB**

fL(MHz)=1860MHz fM(MHz)=1880MHz fH(MHz)= 1900MHz

SAR Values(body,LTE BAND2)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

Test Case		CH	Measure Conducted Power (dBm)	Tune-up limit (dBm)	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
Position	mode					1 g Average	1g Average
TG	20 BW 1RB	L	22.50	23	1.12	0.708	0.794
		M	22.80	23	1.05	0.795	0.832
		M(retest)	22.80	23	1.05	0.723	0.748
		H	22.20	23	1.20	0.777	0.934
TP	20 BW 1RB	L	22.50	23	1.12	---	---
		M	22.80	23	1.05	0.472	0.494
		H	22.20	23	1.20	---	---
Hotspot EDGE 2	20 BW 1RB	L	22.50	23	1.12	---	---
		M	22.80	23	1.05	0.378	0.396
		H	22.20	23	1.20	---	---
Hotspot EDGE 3		L	22.50	23	1.12	---	---
		M	22.80	23	1.05	0.043	0.045
		H	22.20	23	1.20	---	---
Hotspot EDGE 4		L	22.50	23	1.12	---	---
		M	22.80	23	1.05	0.301	0.315
		H	22.20	23	1.20	---	---

Note: Note: The test result of variation product is better than the original test data. So the original test data retain and adopted as the final test result.

M is the original test data, M(retest) is the new test data(variation).

The distance between the EUT and the phantom bottom is 10mm.

**Mode: LTE BAND2- 20BW-50%RB**

fL(MHz)=1860MHz fM(MHz)=1880MHz fH(MHz)= 1900MHz

SAR Values(Head,LTE BAND2)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

Test Case		CH	Measure Conducted Power (dBm)	Tune-uplimit (dBm)	Scaling Factor	Measure Results ( W/kg)	Reported Results ( W/kg)
Position	mode					1 g Average	1g Average
Left cheek	20 BW 50%RB	L	22.20	23	1.20	---	---
		M	22.50	23	1.12	0.397	0.445
		H	22.00	23	1.26	---	---
Left Tilted		L	22.20	23	1.20	---	---
		M	22.50	23	1.12	0.096	0.108
		H	22.00	23	1.26	---	---
Right cheek		L	22.20	23	1.20	---	---
		M	22.50	23	1.12	0.147	0.165
		H	22.00	23	1.26	---	---
Right Tilted	L	22.20	23	1.20	---	---	
	M	22.50	23	1.12	0.067	0.075	
	H	22.00	23	1.26	---	---	

**Mode: LTE BAND2- 20BW-50%RB**

fL(MHz)=1860MHz fM(MHz)=1880MHz fH(MHz)= 1900MHz

SAR Values(body,LTE BAND2)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

Test Case		CH	Measure Conducted Power (dBm)	Tune-up limit (dBm)	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
Position	mode					1 g Average	1g Average
TG	20 BW 50%RB	L	22.20	23	1.20	---	---
		M	22.50	23	1.12	0.646	0.725
		H	22.00	23	1.26	---	---
TP	20 BW 50%RB	L	22.20	23	1.20	---	---
		M	22.50	23	1.12	0.382	0.429
		H	22.00	23	1.26	---	---
Hotspot EDGE 2	20 BW 50%RB	L	22.20	23	1.20	---	---
		M	22.50	23	1.12	---	---
		H	22.00	23	1.26	---	---
Hotspot EDGE 3		L	22.20	23	1.20	---	---
		M	22.50	23	1.12	---	---
		H	22.00	23	1.26	---	---
Hotspot EDGE 4		L	22.20	23	1.20	---	---
		M	22.50	23	1.12	---	---
		H	22.00	23	1.26	---	---

Note: The distance between the EUT and the phantom bottom is 10mm.

**Mode: LTE BAND4- 20BW-1RB**

fL(MHz)=1720.0MHz fM(MHz)=1732.5MHz fH(MHz)= 1745.0Mhz

SAR Values(Head,LTE BAND4)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

Test Case		CH	Measure Conducted Power (dBm)	Tune-uplimit (dBm)	Scaling Factor	Measure Results ( W/kg)	Reported Results ( W/kg)
Position	mode					1 g Average	1g Average
Left cheek	20BW 1RB	L	21.80	1.20	1.32	---	---
		M	22.00	1.00	1.26	0.343	0.432
		H	21.50	1.50	1.41	---	---
Left Tilted		L	21.80	1.20	1.32	---	---
		M	22.00	1.00	1.26	0.169	0.213
		H	21.50	1.50	1.41	---	---
Right cheek		L	21.80	1.20	1.32	---	---
		M	22.00	1.00	1.26	0.170	0.214
		H	21.50	1.50	1.41	---	---
Right Tilted	L	21.80	1.20	1.32	---	---	
	M	22.00	1.00	1.26	0.138	0.174	
	H	21.50	1.50	1.41	---	---	

**Mode: LTE BAND4- 20BW-1RB**

fL(MHz)=1720.0MHz      fM(MHz)=1732.5MHz      fH(MHz)= 1745.0MHz

SAR Values(body,LTE BAND4)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

Test Case		CH	Measure Conducted Power (dBm)	Tune-up limit (dBm)	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
Position	mode					1 g Average	1g Average
TG	20 BW 1RB	L	21.80	1.20	1.32	---	---
		M	22.00	1.00	1.26	0.200	0.252
		H	21.50	1.50	1.41	---	---
TP	20 BW 1RB	L	21.80	1.20	1.32	---	---
		M	22.00	1.00	1.26	0.340	0.428
		H	21.50	1.50	1.41	---	---
Hotspot EDGE 2	20 BW 1RB	L	21.80	1.20	1.32	---	---
		M	22.00	1.00	1.26	---	---
		H	21.50	1.50	1.41	---	---
Hotspot EDGE 3		L	21.80	1.20	1.32	---	---
		M	22.00	1.00	1.26	---	---
		H	21.50	1.50	1.41	---	---
Hotspot EDGE 4		L	21.80	1.20	1.32	---	---
		M	22.00	1.00	1.26	---	---
		H	21.50	1.50	1.41	---	---

Note: The distance between the EUT and the phantom bottom is 10mm.



**Mode: LTE BAND4- 20BW-50%RB**

fL(MHz)=1720 MHz    fM(MHz)=1732.5MHz    fH(MHz)= 1745MHz

SAR Values(Head,LTE BAND4)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

Test Case		CH	Measure Conducted Power (dBm)	Tune-uplimit (dBm)	Scaling Factor	Measure Results ( W/kg)	Reported Results ( W/kg)
Position	mode					1 g Average	1g Average
Left cheek	20 BW 50%RB	L	21.80	1.20	1.32	---	---
		M	22.00	1.00	1.26	0.280	0.352
		H	21.50	1.50	1.41	---	---
Left Tilted		L	21.80	1.20	1.32	---	---
		M	22.00	1.00	1.26	0.136	0.171
		H	21.50	1.50	1.41	---	---
Right cheek		L	21.80	1.20	1.32	---	---
		M	22.00	1.00	1.26	0.148	0.186
		H	21.50	1.50	1.41	---	---
Right Tilted	L	21.80	1.20	1.32	---	---	
	M	22.00	1.00	1.26	0.118	0.149	
	H	21.50	1.50	1.41	---	---	

**Mode: LTE BAND4- 20BW-50%RB**

fL(MHz)=1720 MHz fM(MHz)=1732.5MHz fH(MHz)= 1745MHz

SAR Values(body,LTE BAND4)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

Note: The distance between the EUT and the phantom bottom is 10mm.

Test Case		CH	Measure Conducted Power (dBm)	Tune-up limit (dBm)	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
Position	mode					1 g Average	1g Average
TG	20 BW 50%RB	L	21.80	1.20	1.32	---	---
		M	22.00	1.00	1.26	0.419	0.527
		M(retest)	22.00	1.00	1.26	0.374	0.471
		H	21.50	1.50	1.41	---	---
TP	20 BW 50%RB	L	21.80	1.20	1.32	---	---
		M	22.00	1.00	1.26	0.272	0.342
		H	21.50	1.50	1.41	---	---
Hotspot EDGE 2	20 BW 50%RB	L	21.80	1.20	1.32	---	---
		M	22.00	1.00	1.26	0.311	0.392
		H	21.50	1.50	1.41	---	---
Hotspot EDGE 3		L	21.80	1.20	1.32	---	---
		M	22.00	1.00	1.26	0.116	0.146
		H	21.50	1.50	1.41	---	---
Hotspot EDGE 4		L	21.80	1.20	1.32	---	---
		M	22.00	1.00	1.26	0.153	0.193
		H	21.50	1.50	1.41	---	---

Note: The test result of variation product is better than the original test data. So the original test data retain and adopted as the final test result.

M is the original test data, M(retest) is the new test data(variation).

**Mode: LTE BAND5- 10BW-1RB**

fL(MHz)=829 MHz      fM(MHz)=836.5MHz      fH(MHz)= 844MHz

SAR Values(Head,LTE BAND5)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

Test Case		CH	Measure Conducted Power (dBm)	Tune-uplimit (dBm)	Scaling Factor	Measure Results ( W/kg)	Reported Results ( W/kg)
Position	mode					1 g Average	1g Average
Left cheek	10 BW 1RB	L	22.00	23	1.26	---	---
		M	22.20	23	1.20	0.102	0.123
		H	21.80	23	1.32	---	---
Left Tilted		L	22.00	23	1.26	---	---
		M	22.20	23	1.20	0.069	0.083
		H	21.80	23	1.32	---	---
Right cheek		L	22.00	23	1.26	---	---
		M	22.20	23	1.20	0.129	0.155
		H	21.80	23	1.32	---	---
Right Tilted	L	22.00	23	1.26	---	---	
	M	22.20	23	1.20	0.074	0.088	
	H	21.80	23	1.32	---	---	

**Mode: LTE BAND5- 10BW-1RB**

fL(MHz)=829 MHz      fM(MHz)=836.5MHz      fH(MHz)= 844MHz

SAR Values(Head,LTE BAND5)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

Test Case		CH	Measure Conducted Power (dBm)	Tune-up limit (dBm)	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
Position	mode					1 g Average	1g Average
TG	10 BW 1RB	L	22.00	23	1.26	---	---
		M	22.20	23	1.20	0.258	0.310
		H	21.80	23	1.32	---	---
TP	10 BW 1RB	L	22.00	23	1.26	---	---
		M	22.20	23	1.20	0.167	0.201
		H	21.80	23	1.32	---	---
Hotspot EDGE 2	10 BW 1RB	L	22.00	23	1.26	---	---
		M	22.20	23	1.20	0.125	0.150
		H	21.80	23	1.32	---	---
Hotspot EDGE 3		L	22.00	23	1.26	---	---
		M	22.20	23	1.20	0.293	0.352
		M(retest)	22.20	23	1.20	0.216	0.325
Hotspot EDGE 4		H	21.80	23	1.32	---	---
		L	22.00	23	1.26	---	0.000
		M	22.20	23	1.20	0.062	0.075
		H	21.80	23	1.32	---	---

Note: The test result of variation product is better than the original test data. So the original test data retain and adopted as the final test result.

M is the original test data, M(retest) is the new test data(variation).

The distance between the EUT and the phantom bottom is 10mm.

**Mode: LTE BAND5- 10BW-50%RB**

fL(MHz)=829 MHz      fM(MHz)=836.5MHz      fH(MHz)= 844MHz

SAR Values(Head,LTE BAND5)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

Test Case		CH	Measure Conducted Power (dBm)	Tune-uplimit (dBm)	Scaling Factor	Measure Results ( W/kg)	Reported Results ( W/kg)
Position	mode					1 g Average	1g Average
Left cheek	10 BW 50%RB	L	22.00	23	1.26	---	---
		M	22.30	23	1.17	0.102	0.120
		H	22.00	23	1.26	---	---
Left Tilted		L	22.00	23	1.26	---	---
		M	22.30	23	1.17	0.059	0.069
		H	22.00	23	1.26	---	---
Right cheek		L	22.00	23	1.26	---	---
		M	22.30	23	1.17	0.099	0.116
		H	22.00	23	1.26	---	---
Right Tilted	L	22.00	23	1.26	---	---	
	M	22.30	23	1.17	0.054	0.064	
	H	22.00	23	1.26	---	---	

**Mode: LTE BAND5- 10BW-50%RB**

fL(MHz)=829 MHz      fM(MHz)=836.5MHz      fH(MHz)= 844MHz

SAR Values(Head,LTE BAND5)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

Test Case		CH	Measure Conducted Power (dBm)	Tune-up limit (dBm)	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
Position	mode					1 g Average	1g Average
TG	10 BW 50%RB	L	22.00	23	1.26	---	---
		M	22.30	23	1.17	0.174	0.204
		H	22.00	23	1.26	---	---
TP	10 BW 50%RB	L	22.00	23	1.26	---	---
		M	22.30	23	1.17	0.145	0.170
		H	22.00	23	1.26	---	---
Hotspot EDGE 2	10 BW 50%RB	L	22.00	23	1.26	---	---
		M	22.30	23	1.17	---	---
		H	22.00	23	1.26	---	---
Hotspot EDGE 3		L	22.00	23	1.26	---	---
		M	22.30	23	1.17	---	---
		H	22.00	23	1.26	---	---
Hotspot EDGE 4		L	22.00	23	1.26	---	---
		M	22.30	23	1.17	---	---
		H	22.00	23	1.26	---	---

Note: The distance between the EUT and the phantom bottom is 10mm.

**Mode: LTE BAND7- 20BW-1RB**

fL(MHz)=2510 MHz fM(MHz)=2535MHz fH(MHz)= 2560MHz

SAR Values(Head,LTE BAND7)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

Test Case		CH	Measure Conducted Power (dBm)	Tune-uplimit (dBm)	Scaling Factor	Measure Results ( W/kg)	Reported Results ( W/kg)
Position	mode					1 g Average	1g Average
Left cheek	20 BW 1RB	L	21.60	23	1.38	---	---
		M	22.40	23	1.15	0.064	0.073
		H	22.00	23	1.26	---	---
Left Tilted		L	21.60	23	1.38	---	---
		M	22.40	23	1.15	0.027	0.031
		H	22.00	23	1.26	---	---
Right cheek		L	21.60	23	1.38	---	---
		M	22.40	23	1.15	0.034	0.039
		H	22.00	23	1.26	---	---
Right Tilted	L	21.60	23	1.38	---	---	
	M	22.40	23	1.15	0.030	0.034	
	H	22.00	23	1.26	---	---	

**Mode: LTE BAND7- 20BW-1RB**

fL(MHz)=2510 MHz fM(MHz)=2535MHz fH(MHz)= 2560MHz

SAR Values(body,LTE BAND7)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

Test Case		CH	Measure Conducted Power (dBm)	Tune-up limit (dBm)	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
Position	mode					1 g Average	1g Average
TG	20 BW 1RB	L	21.60	23	1.38	---	---
		M	22.40	23	1.15	0.740	0.850
		M(retest)	22.40	23	1.15	0.663	0.762
		H	22.00	23	1.26	---	---
TP	20 BW 1 RB	L	21.60	23	1.38	---	---
		M	22.40	23	1.15	0.322	0.370
		H	22.00	23	1.26	---	---
Hotspot EDGE 2	20 BW 1RB	L	21.60	23	1.38	---	---
		M	22.40	23	1.15	0.523	0.600
		H	22.00	23	1.26	---	---
Hotspot EDGE 3		L	21.60	23	1.38	---	---
		M	22.40	23	1.15	0.050	0.057
		H	22.00	23	1.26	---	---
Hotspot EDGE 4		L	21.60	23	1.38	---	---
		M	22.40	23	1.15	0.019	0.021
		H	22.00	23	1.26	---	---

Note: The test result of variation product is better than the original test data. So the original test data retain and adopted as the final test result.

M is the original test data, M(retest) is the new test data(variation).

The distance between the EUT and the phantom bottom is 10mm.



**Mode: LTE BAND7- 20BW-50%RB**

fL(MHz)=2510 MHz fM(MHz)=2535MHz fH(MHz)= 2560MHz

SAR Values(Head,LTE BAND7)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

Test Case		CH	Measure Conducted Power (dBm)	Tune-uplimit (dBm)	Scaling Factor	Measure Results ( W/kg)	Reported Results ( W/kg)
Position	mode					1 g Average	1g Average
Left cheek	20 BW 50%RB	L	21.40	23	1.45	---	---
		M	22.50	23	1.12	0.057	0.064
		H	22.00	23	1.26	---	---
Left Tilted		L	21.40	23	1.45	---	---
		M	22.50	23	1.12	0.020	0.022
		H	22.00	23	1.26	---	---
Right cheek		L	21.40	23	1.45	---	---
		M	22.50	23	1.12	0.029	0.033
		H	22.00	23	1.26	---	---
Right Tilted	L	21.40	23	1.45	---	---	
	M	22.50	23	1.12	0.035	0.039	
	H	22.00	23	1.26	---	---	

**Mode: LTE BAND7- 20BW-50%RB**

fL(MHz)=2510 MHz fM(MHz)=2535MHz fH(MHz)= 2560MHz

SAR Values(body,LTE BAND7)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

Test Case		CH	Measure Conducted Power (dBm)	Tune-up limit (dBm)	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
Position	mode					1 g Average	1g Average
TG	20 BW 50%RB	L	21.40	23	1.45	---	---
		M	22.50	23	1.12	0.613	0.688
		H	22.00	23	1.26	---	---
TP	20 BW 50%RB	L	21.40	23	1.45	---	---
		M	22.50	23	1.12	0.270	0.303
		H	22.00	23	1.26	---	---
Hotspot EDGE 2	20 BW 50%RB	L	21.40	23	1.45	---	---
		M	22.50	23	1.12	---	---
		H	22.00	23	1.26	---	---
Hotspot EDGE 3		L	21.40	23	1.45	---	---
		M	22.50	23	1.12	---	---
		H	22.00	23	1.26	---	---
Hotspot EDGE 4		L	21.40	23	1.45	---	---
		M	22.50	23	1.12	---	---
		H	22.00	23	1.26	---	---

Note: The distance between the EUT and the phantom bottom is 10mm.

## 6.11 SAR Measurement Variability

SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium.

The following procedures are applied to determine if repeated measurements are required.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is  $\geq 0.80$  W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is  $\geq 1.45$  W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is  $\geq 1.5$  W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

### 6.11.1 The Highest Measured SAR configuration in Each Frequency Band

Frequency band(MHz)	Air interface	Head(w/kg)	Body(w/kg)
850	GSM850 WCDMA BAND5 LTE BAND5	<0.8	<0.8
1700	WCDMA BAND4 LTE BAND4	<0.8	<0.8
1900	GSM1900 WCDMA BAND2 LTE BAND2	<0.8	<0.8
2450	WiFi 802.11b/g/n LTE BAND7	<0.8	<0.8

## 6.12 Simultaneous Transmission SAR Analysis

According to the formula (KDB447498 4.3.2) the Wifi SAR as follow:

$[(\text{max.power of channel, including tune-up tolerance,mw})/(\text{min.test separation distance,mm})]$   
 $[\sqrt{f(\text{GHz})/x}] \text{ W/kg}$  for test separation distances  $\leq 50\text{mm}$ .

Head:

min. test separation distance = 5mm

Body:

min. test separation distance = 10mm

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

### The sum of SAR values for GSM & WiFi

	MAXIMUM SAR VALUE FOR HEAD	MAXIMUM SAR VALUE FOR BODY
<b>GSM</b>	0.322	0.981
<b>WiFi</b>	0.417	0.417
<b>Sum</b>	0.739	1.398
<b>Note</b>	GSM850+WIFI RIGHT cheek	EGPRS1900+WIFI TG

According to the above tables, the sum of SAR values for GSM and WiFi < 1.6W/kg. So simultaneous transmission SAR are not required for WiFi transmitter.

### The sum of SAR values for WCDMA & WiFi

	MAXIMUM SAR VALUE FOR HEAD	MAXIMUM SAR VALUE FOR BODY
<b>WCDMA</b>	0.509	1.012
<b>WiFi</b>	0.417	0.417
<b>Sum</b>	0.926	1.429
<b>Note</b>	WCDMA BAND4+WIFI Left cheek	WCDMA BAND4+WIFI TG

According to the above tables, the sum of SAR values for GSM and WiFi < 1.6W/kg. So simultaneous transmission SAR are not required for WiFi transmitter.

### The sum of SAR values for LTE & WiFi

	MAXIMUM SAR VALUE FOR HEAD	MAXIMUM SAR VALUE FOR BODY
<b>LTE</b>	0.464	0.934
<b>WiFi</b>	0.417	0.417
<b>Sum</b>	0.881	1.351
<b>Note</b>	LTE BAND2+WIFI Left cheek	LTE BAND2+WIFI TG

According to the above tables, the sum of SAR values for LTE and WiFi < 1.6W/kg. So simultaneous transmission SAR are not required for WiFi transmitter.

According to the formula (KDB447498 4.3.2) the Bluetooth SAR as follow:  

$$\frac{[(\text{max.power of channel, including tune-up tolerance,mw})/(\text{min.test separation distance,mm})]}{[\sqrt{f(\text{GHz})/x}]} \text{ W/kg for test separation distances } \leq 50\text{mm.}$$

Head:

min. test separation distance = 5mm

Body:

min. test separation distance = 10mm

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

#### The sum of SAR values for GSM & Bluetooth

	MAXIMUM SAR VALUE FOR HEAD	MAXIMUM SAR VALUE FOR BODY
<b>GSM</b>	0.322	0.981
<b>Bluetooth</b>	0.033	0.033
<b>Sum</b>	0.355	1.014
<b>Note</b>	GSM850+BT Right cheek	GSM1900+BT TG

According to the above tables, the sum of SAR values for GSM and Bluetooth < 1.6W/kg. So simultaneous transmission SAR are not required for Bluetooth transmitter.

#### The sum of SAR values for WCDMA & Bluetooth

	MAXIMUM SAR VALUE FOR HEAD	MAXIMUM SAR VALUE FOR BODY
<b>WCDMA</b>	0.509	1.012
<b>Bluetooth</b>	0.033	0.033
<b>Sum</b>	0.542	1.045
<b>Note</b>	WCDMA BAND4+WIFI Left cheek	WCDMA BAND4+WIFI TG

According to the above tables, the sum of SAR values for GSM and Bluetooth < 1.6W/kg. So simultaneous transmission SAR are not required for Bluetooth transmitter.

#### The sum of SAR values for LTE & Bluetooth

	MAXIMUM SAR VALUE FOR HEAD	MAXIMUM SAR VALUE FOR BODY
<b>LTE</b>	0.464	0.934
<b>Bluetooth</b>	0.033	0.033
<b>Sum</b>	0.497	0.967
<b>Note</b>	LTE BAND2+WIFI Left cheek	LTE BAND2+WIFI TG

According to the above tables, the sum of SAR values for LTE and Bluetooth < 1.6W/kg. So simultaneous transmission SAR are not required for Bluetooth transmitter.

## 7 MEASUREMENT UNCERTAINTY

DASY5 Uncertainty Budget								
Error description	Uncertainty value	Prob. Dist.	Div.	( $c_i$ ) 1g	( $c_i$ ) 10g	Std.Unc (1g).	Std.Unc. (10g)	(vi) Veff
<b>Measurement system</b>								
Probe calibration	±6.0%	N	1	1	1	±6.0%	±6.0%	∞
Axial isotropy	±4.7%	R	$\sqrt{3}$	0.7	0.7	±1.9%	±1.9%	∞
Hemispherical isotropy	±9.6%	R	$\sqrt{3}$	0.7	0.7	±3.9%	±3.9%	∞
Boundary Effects	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
Linearity	±4.7%	R	$\sqrt{3}$	1	1	±2.7%	±2.7%	∞
System detection limits	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
Readout electronics	±0.3%	N	1	1	1	±0.3%	±0.3%	∞
Response time	±0.8%	R	$\sqrt{3}$	1	1	±0.5%	±0.5%	∞
Integration time	±2.6%	R	$\sqrt{3}$	1	1	±1.5%	±1.5%	∞
RF ambient noise	±3.0%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
RF ambient reflections	±3.0%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
Probe positioner	±0.4%	R	$\sqrt{3}$	1	1	±0.2%	±0.2%	∞
Probe positioning	±2.9%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
Max.SAR Eval.	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
<b>Test Sample Related</b>								
Device holder	±3.6%	N	1	1	1	±3.6%	±3.6%	5
Device Positioning	±2.9%	N	1	1	1	±2.9%	±2.9%	145
Power drift	±5.0%	R	$\sqrt{3}$	1	1	±2.9%	±2.9%	∞
<b>Phantom and Setup</b>								
Phantom uncertainty	±4.0%	R	$\sqrt{3}$	1	1	±2.3%	±2.3%	∞
Liquid conductivity (target.)	±5.0%	R	$\sqrt{3}$	0.64	0.43	±1.8%	±1.2%	∞
Liquid conductivity (mea.)	±2.5%	R	$\sqrt{3}$	0.64	0.43	±0.9%	±0.6%	∞
Liquid Permittivity (target.)	±5.0%	R	$\sqrt{3}$	0.60	0.49	±1.7%	±1.4%	∞
Liquid Permittivity (mea.)	±2.5%	R	$\sqrt{3}$	0.60	0.49	±0.9%	±0.7%	∞
Combined std. Uncertainty						±10.9%	±10.7%	387
<b>Expanded STD Uncertainty</b>						<b>±21.7%</b>	<b>±21.4%</b>	

## 8 TEST EQUIPMENTS

The measurements were performed using an automated near-field scanning system, DASY5, manufactured by Schmid & Partner Engineering AG (SPEAG) in Switzerland. The SAR extrapolation algorithm used in all measurements was the 'advanced extrapolation' algorithm.

The following table lists calibration dates of SPEAG components which the initial certified product used:

Test Equipment	Model	Serial Number	Calibration date	Calibration Due data
DAE	DAE4	720	2016.10.31	2017.10.30
DAE	DAE4	546	2016.08.22	2017.08.21
Dosimetric E-field Probe	EX3DV4	3708	2016.11.10	2017.11.09
Dosimetric E-field Probe	ES3DV3	3127	2016.08.29	2017.08.28
Dipole Validation Kit	D835V2	4d023	2016.10.24	2017.10.23
Dipole Validation Kit	D1900V2	5d113	2016.10.31	2017.10.30
Dipole Validation Kit	D2450V2	738	2016.10.25	2017.10.24

Additional test equipment used in testing:

Test Equipment	Model	Serial Number	Calibration date	Calibration Due data
Signal Generator	E4428C	MY45280865	2016.08.20	2017.08.19
Signal Generator	SML 03	103514	2016.08.20	2017.08.19
Power meter	E4417A	MY45101182	2016.08.20	2017.08.19
Power Sensor	E4412A	MY41502214	2016.08.20	2017.08.19
Power Sensor	E4412A	MY41502130	2016.08.20	2017.08.19
Power meter	E4417A	MY45101004	2016.08.20	2017.08.19
Power Sensor	E9300B	MY41496001	2016.08.20	2017.08.19
Power Sensor	E9300B	MY41496003	2016.08.20	2017.08.19
Communication Tester	8960	GB43194054	2016.08.20	2017.08.19
Communication Tester	CMU200	114666	2016.08.20	2017.08.19
Communication Tester	MT8820C	6201300660	2016.08.20	2017.08.19
Vector Network Analyzer	VNA R140	0011213	2016.08.20	2017.08.19
Dielectric Parameter Probe	DAKS-3.5	1042	2016.08.20	2017.08.19

We calibrated certain devices which expired. The following table lists the new calibration dates of the components , and all the new tests for this variant product within the new period of validity:

Test Equipment	Model	Serial Number	Calibration date	Calibration Due data
Signal Generator	E4428C	MY45280865	2017.08.20	2018.08.19
Signal Generator	SML 03	103514	2017.08.20	2018.08.19
Power meter	E4417A	MY45101182	2017.08.20	2018.08.19
Power Sensor	E4412A	MY41502214	2017.08.20	2018.08.19
Power Sensor	E4412A	MY41502130	2017.08.20	2018.08.19
Power meter	E4417A	MY45101004	2017.08.20	2018.08.19
Power Sensor	E9300B	MY41496001	2017.08.20	2018.08.19
Power Sensor	E9300B	MY41496003	2017.08.20	2018.08.19
Communication Tester	8960	GB43194054	2017.08.20	2018.08.19
Communication Tester	CMU200	114666	2017.08.20	2018.08.19
Communication Tester	MT8820C	6201300660	2017.08.20	2018.08.19



Detailed information of Isotropic E-field Probe Type ES3DV3

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	Calibration certificate in Appendix C
Frequency	10 MHz to 4 GHz; Linearity: $\pm 0.2$ dB (30 MHz to 4 GHz)
Optical Surface Detection	$\pm 0.2$ mm repeatability in air and clear liquids over diffuse reflecting surfaces
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
Dynamic Range	5 $\mu$ W/g to > 100 W/kg; Linearity: $\pm 0.2$ dB
Application	General dosimetry up to 4 GHz Dosimetry in strong gradient fields Compliance tests of mobile phones

Detailed information of Isotropic E-field Probe Type EX3DV4

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	Calibration certificate in Appendix C
Frequency	10 MHz to > 6 GHz Linearity: $\pm 0.2$ dB (30 MHz to 6 GHz)
Optical Surface Detection	$\pm 0.3$ mm repeatability in air and clear liquids over diffuse reflecting surfaces
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Dynamic Range	10 $\mu$ W/g to > 100 W/kg Linearity: $\pm 0.2$ dB (noise: typically < 1 $\mu$ W/g)
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.

**ANNEX A – TEST PLOTS**

Please refer to the attachment.

**ANNEX B – RELEVANT PAGES FROM CALIBRATION REPORTS**

Please refer to the attachment.

**ANNEX C – PHOTOGRAPH**

Please refer to the attachment.

**ANNEX A – TEST PLOTS**

SYSTEM CHECKING SCANS	835MHz Head
<p>Communication System: UID 0, CW (0); Frequency: 835 MHz            Medium parameters used (extrapolated): <math>f = 835 \text{ MHz}</math>; <math>\sigma = 0.909 \text{ S/m}</math>; <math>\epsilon_r = 42.108</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Flat Section            Measurement Standard:DASY5 (IEEE 1528-2013)</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(5.97, 5.97, 5.97); Calibrated: 8/29/2016;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection), <math>z = 2.0, 32.0</math></li> <li>Electronics: DAE4 Sn546; Calibrated: 8/22/2016</li> <li>Phantom: SAM 1559; Type: SAM; Serial: 1559</li> <li>DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)</li> </ul> <p><b>System Performance Check at Frequencies 835MHz Head/d=15mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Area Scan (10x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>            Maximum value of SAR (measured) = 2.98 W/kg</p> <p><b>System Performance Check at Frequencies 835MHz Head/d=15mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 54.113 V/m; Power Drift = -0.05 dB            Peak SAR (extrapolated) = 3.55 W/kg  <b>SAR(1 g) = 2.34 W/kg; SAR(10 g) = 1.53 W/kg</b>            Maximum value of SAR (measured) = 2.98 W/kg</p> <div data-bbox="335 1429 1244 1881"> </div>	

SYSTEM CHECKING SCANS	835MHz Flat
<p>Communication System: UID 0, CW (0); Frequency: 835 MHz                      Medium parameters used (extrapolated): <math>f = 835 \text{ MHz}</math>; <math>\sigma = 0.978 \text{ S/m}</math>; <math>\epsilon_r = 53.846</math>; <math>\rho = 1000 \text{ kg/m}^3</math>                      Phantom section: Flat Section                      Measurement Standard: DASYS (IEEE 1528-2013)</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(5.88, 5.88, 5.88); Calibrated: 8/29/2016;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection), <math>z = -18.0, 32.0</math></li> <li>• Electronics: DAE4 Sn546; Calibrated: 8/22/2016</li> <li>• Phantom: SAM 1559; Type: SAM; Serial: 1559</li> <li>• DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)</li> </ul> <p><b>System Performance Check at Frequencies 835MHz Flat/d=15mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Area Scan (7x12x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>                      Maximum value of SAR (measured) = 2.55 W/kg</p> <p><b>System Performance Check at Frequencies 835MHz Flat/d=15mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>                      Reference Value = 53.044 V/m; Power Drift = -0.01 dB                      Peak SAR (extrapolated) = 3.54 W/kg  <b>SAR(1 g) = 2.33 W/kg; SAR(10 g) = 1.53 W/kg</b>                      Maximum value of SAR (measured) = 2.87 W/kg</p> <div data-bbox="335 1411 1244 1859"> </div>	

SYSTEM CHECKING SCANS	1900MHz Head
<p>Communication System: UID 0, CW (0); Frequency: 1900 MHz                      Medium parameters used: <math>f = 1900 \text{ MHz}</math>; <math>\sigma = 1.41 \text{ S/m}</math>; <math>\epsilon_r = 40.84</math>; <math>\rho = 1000 \text{ kg/m}^3</math>                      Phantom section: Flat Section                      Measurement Standard:DASY5 (IEEE 1528-2013)</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.94, 4.94, 4.94); Calibrated: 8/29/2016;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection), <math>z = 2.0, 32.0</math></li> <li>• Electronics: DAE4 Sn546; Calibrated: 8/22/2016</li> <li>• Phantom: SAM 1560; Type: SAM; Serial: 1560</li> <li>• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)</li> </ul> <p><b>System Performance Check at Frequencies 1900MHz Head/d=10mm, Pin=250mW, dist=2.0mm (EX-Probe)/Area Scan (9x12x1):</b> Measurement grid: <math>dx=15\text{mm}, dy=15\text{mm}</math>                      Maximum value of SAR (measured) = 14.0 W/kg</p> <p><b>System Performance Check at Frequencies 1900MHz Head/d=10mm, Pin=250mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}, dy=5\text{mm}, dz=5\text{mm}</math>                      Reference Value = 95.996 V/m; Power Drift = 0.05 dB                      Peak SAR (extrapolated) = 20.8 W/kg  <b>SAR(1 g) = 9.82 W/kg; SAR(10 g) = 5.47 W/kg</b>                      Maximum value of SAR (measured) = 15.9 W/kg</p> <div data-bbox="343 1332 1252 1780"> <p>The figure is a heatmap representing the SAR field distribution. On the left, a vertical color scale indicates dB values: 0 (yellow), -3.75 (orange), -7.49 (red), -11.24 (purple), -14.98 (blue), and -18.73 (black). The main image shows a cross-section of a head phantom with a central rectangular area highlighted in a darker shade, indicating the measurement region. The highest intensity (yellow/red) is concentrated in the center of this region, with intensity decreasing as it moves towards the edges and the rest of the head.</p> </div>	

<b>SYSTEM CHECKING SCANS</b>	<b>1900MHz Flat</b>
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Communication System: UID 0, CW (0); Frequency: 1900 MHz  
 Medium parameters used:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.53 \text{ S/m}$ ;  $\epsilon_r = 52.184$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section  
 Measurement Standard:DASY5 (IEEE 1528-2013)

DASY Configuration:

- Probe: ES3DV3 - SN3127; ConvF(4.67, 4.67, 4.67); Calibrated: 8/29/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn546; Calibrated: 8/22/2016
- Phantom: SAM 1560; Type: SAM; Serial: 1560
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**System Performance Check at Frequencies 1900MHz Flat/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Area Scan (9x11x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 14.7 W/kg

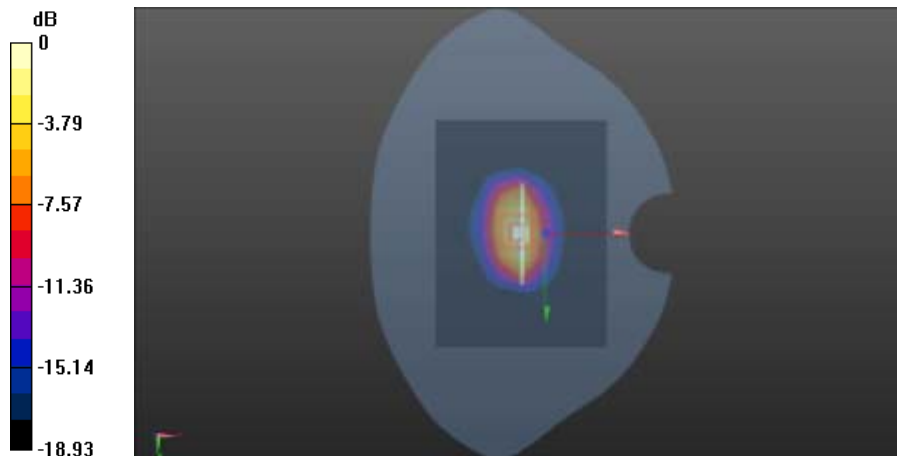
**System Performance Check at Frequencies 1900MHz Flat/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

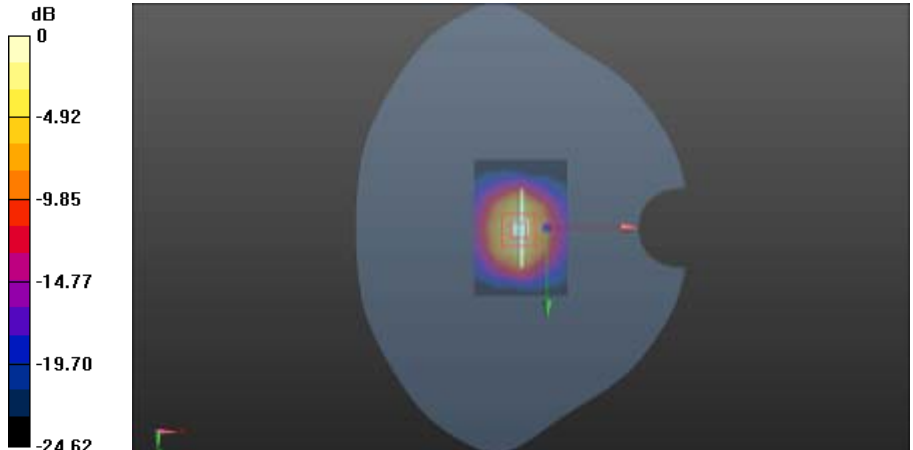
Reference Value = 91.541 V/m; Power Drift = 0.01 dB

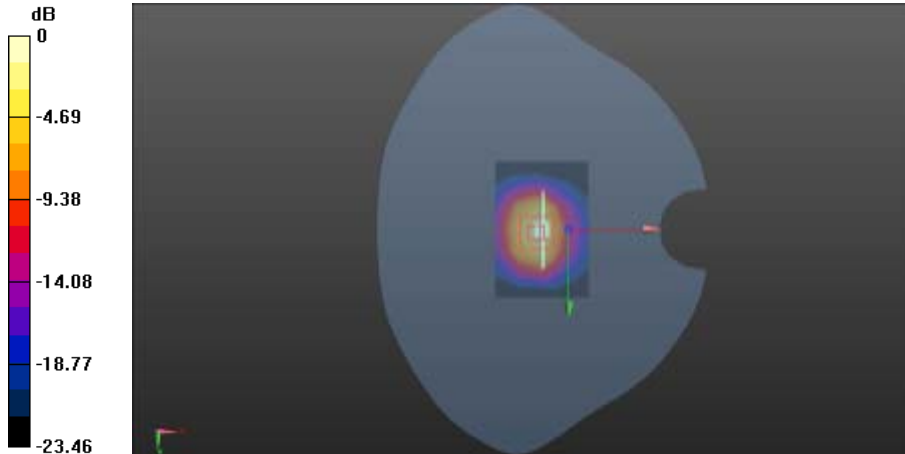
Peak SAR (extrapolated) = 19.2 W/kg

**SAR(1 g) = 9.84 W/kg; SAR(10 g) = 5.64 W/kg**

Maximum value of SAR (measured) = 14.5 W/kg



SYSTEM CHECKING SCANS	2450 MHz Head
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.79$ S/m; $\epsilon_r = 39.208$ ; $\rho = 1000$ kg/m <sup>3</sup> Phantom section: Flat Section	
DASY5 Configuration:	
<ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.35, 4.35, 4.35); Calibrated: 8/29/2016;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2015/8/19</li> <li>Phantom: SAM 1659; Type: QD000P40CD; Serial: TP:1659</li> <li>Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)</li> </ul>	
<p><b>System Performance Check at Frequencies 2450MHz Head/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Area Scan (5x7x1):</b> Measurement grid: dx=15mm, dy=15mm</p>	
<p>Maximum value of SAR (measured) = 17.1 W/kg</p>	
<p><b>System Performance Check at Frequencies 2450MHz Head/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm</p>	
<p>Reference Value = 102.2 V/m; Power Drift = -0.02 dB</p>	
<p>Peak SAR (extrapolated) = 28.8 W/kg</p>	
<p><b>SAR(1 g) = 13.12 W/kg; SAR(10 g) = 5.92 W/kg</b></p>	
<p>Maximum value of SAR (measured) = 17.0 W/kg</p>	
 <p>The figure is a heatmap representing the SAR distribution. On the left, there is a vertical color scale legend labeled 'dB' with values: 0 (yellow), -4.92 (orange), -9.85 (red), -14.77 (purple), -19.70 (dark blue), and -24.62 (black). The main image shows a dark blue background with a central, roughly rectangular area of higher intensity, colored in yellow, orange, and red, indicating higher SAR values. The shape of the high-intensity area is somewhat irregular, resembling a head phantom cross-section.</p>	

SYSTEM CHECKING SCANS	2450MHz Flat
<p>Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1            Medium parameters used: <math>f = 2450</math> MHz; <math>\sigma = 1.965</math> S/m; <math>\epsilon_r = 52.042</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.19, 4.19, 4.19); Calibrated: 8/29/2016;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2015/8/19</li> <li>Phantom: SAM 1659; Type: QD000P40CD; Serial: TP:1659</li> <li>Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)</li> </ul> <p><b>System Performance Check at Frequencies 2450MHz Flat/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Area Scan (5x7x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 17.1 W/kg</p> <p><b>System Performance Check at Frequencies 2450MHz Flat/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 104.3 V/m; Power Drift = -0.01 dB            Peak SAR (extrapolated) = 28.0 W/kg  <b>SAR(1 g) = 12.93 W/kg; SAR(10 g) = 5.78 W/kg</b>            Maximum value of SAR (measured) = 17.4 W/kg</p>	
 <p>The figure displays a color scale for SAR field distribution on the left, ranging from 0 dB (yellow) to -23.46 dB (black). The scale includes intermediate values: -4.69, -9.38, -14.08, and -18.77. To the right is a 2D visualization of the field distribution, showing a central high-intensity region (yellow/red) that tapers off towards the edges (blue/black). A small red and green crosshair indicates the probe's position within the field.</p>	

**GSM (850MHz/Head)**

Left Side	Cheek
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz;Duty Cycle: 1:8.6896            Medium parameters used (interpolated): f = 836.6 MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.478</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Left HSL 850/850GSM HSL touch M/Area Scan (9x13x1):</b>            Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.0699 W/kg</p> <p><b>Head-Section Left HSL 850/850GSM HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b>            Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 2.323 V/m; Power Drift = 0.05 dB            Peak SAR (extrapolated) = 0.144 W/kg  <b>SAR(1 g) = 0.076 W/kg; SAR(10 g) = 0.042 W/kg</b>            Maximum value of SAR (measured) = 0.0834 W/kg</p> <div data-bbox="231 1366 1364 1825"> </div> <p>0 dB = 0.0834 W/kg = -10.79 dBW/kg</p>	



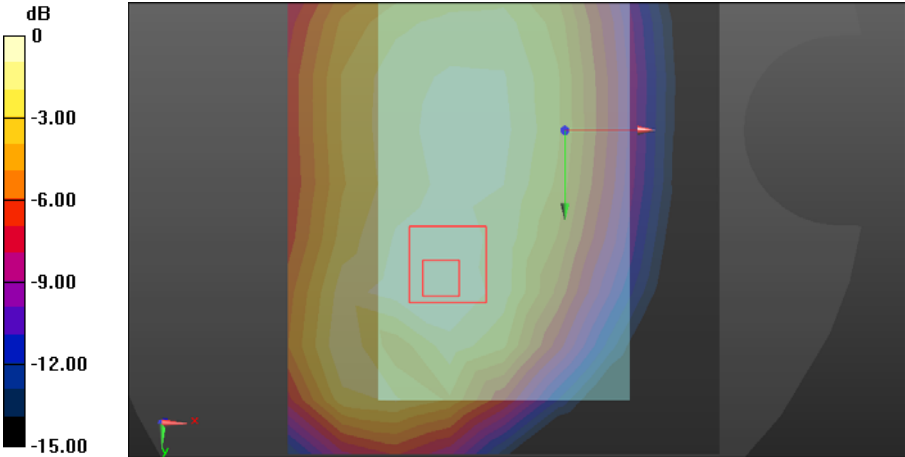
Left Side	Tilt
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz;Duty Cycle: 1:8.6896                      Medium parameters used (interpolated): f = 836.6 MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.478</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>                      Phantom section: Left Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Left HSL 850/850GSM HSL tilt M/Area Scan (9x13x1):</b>                      Measurement grid: dx=15mm, dy=15mm                      Maximum value of SAR (measured) = 0.0265 W/kg</p> <p><b>Head-Section Left HSL 850/850GSM HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b>                      Measurement grid: dx=5mm, dy=5mm, dz=5mm                      Reference Value = 4.598 V/m; Power Drift = -0.18 dB                      Peak SAR (extrapolated) = 0.0510 W/kg  <b>SAR(1 g) = 0.028 W/kg; SAR(10 g) = 0.016 W/kg</b>                      Maximum value of SAR (measured) = 0.0303 W/kg</p> <div data-bbox="231 1328 1361 1783"> </div> <p>0 dB = 0.0303 W/kg = -15.19 dBW/kg</p>	

Right Side	Cheek
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896            Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.478</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Right HSL 850/850GSM HSL touch M/Area Scan (9x13x1):</b>            Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.258 W/kg</p> <p><b>Head-Section Right HSL 850/850GSM HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b>            Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 3.684 V/m; Power Drift = -0.12 dB            Peak SAR (extrapolated) = 0.334 W/kg  <b>SAR(1 g) = 0.252 W/kg; SAR(10 g) = 0.191 W/kg</b>            Maximum value of SAR (measured) = 0.265 W/kg</p> <div data-bbox="231 1332 1364 1792"> </div> <p>0 dB = 0.265 W/kg = -5.77 dBW/kg</p>	

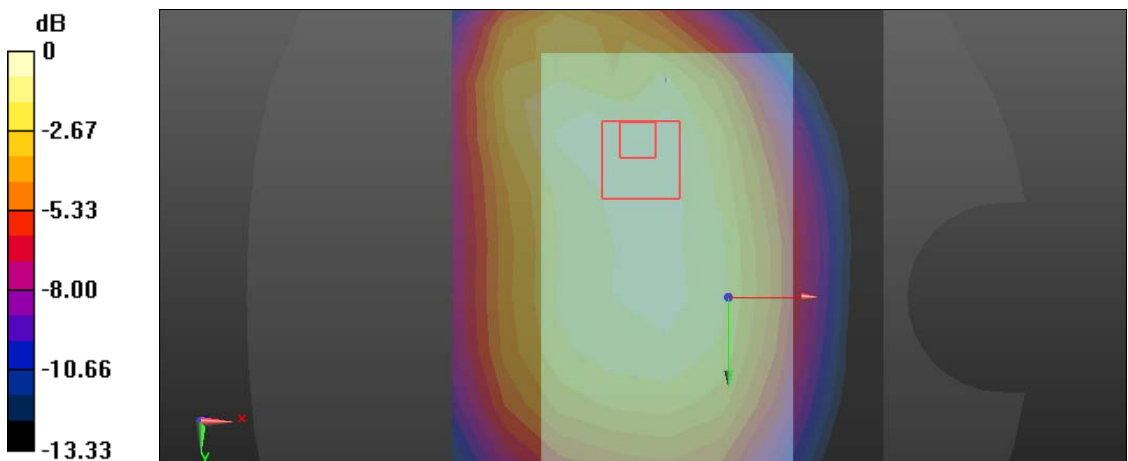
Right Side	Tilt
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896            Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.478</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Right HSL 850/850GSM HSL tilt M/Area Scan (9x13x1):</b>            Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.134 W/kg</p> <p><b>Head-Section Right HSL 850/850GSM HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b>            Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 7.250 V/m; Power Drift = -0.17 dB            Peak SAR (extrapolated) = 0.156 W/kg  <b>SAR(1 g) = 0.128 W/kg; SAR(10 g) = 0.101 W/kg</b></p> <div data-bbox="231 1339 1361 1792"> </div> <p>0 dB = 0.134 W/kg = -8.73 dBW/kg</p>	

**GSM with headset (850MHz/Flat)**

FLAT	Towards phantom
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz;Duty Cycle: 1:8.6896            Medium parameters used (interpolated): f = 836.6 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 850 TP/850GSM TP M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.378 W/kg</p> <p><b>Flat-Section MSL 850 TP/850GSM TP M 10mm/Zoom Scan (7x7x7)/Cube 0:</b>            Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 15.66 V/m; Power Drift = -0.00 dB            Peak SAR (extrapolated) = 0.536 W/kg  <b>SAR(1 g) = 0.367 W/kg; SAR(10 g) = 0.259 W/kg</b>            Maximum value of SAR (measured) = 0.392 W/kg</p> <div data-bbox="231 1344 1364 1803"> </div> <p>0 dB = 0.392 W/kg = -4.07 dBW/kg</p>	

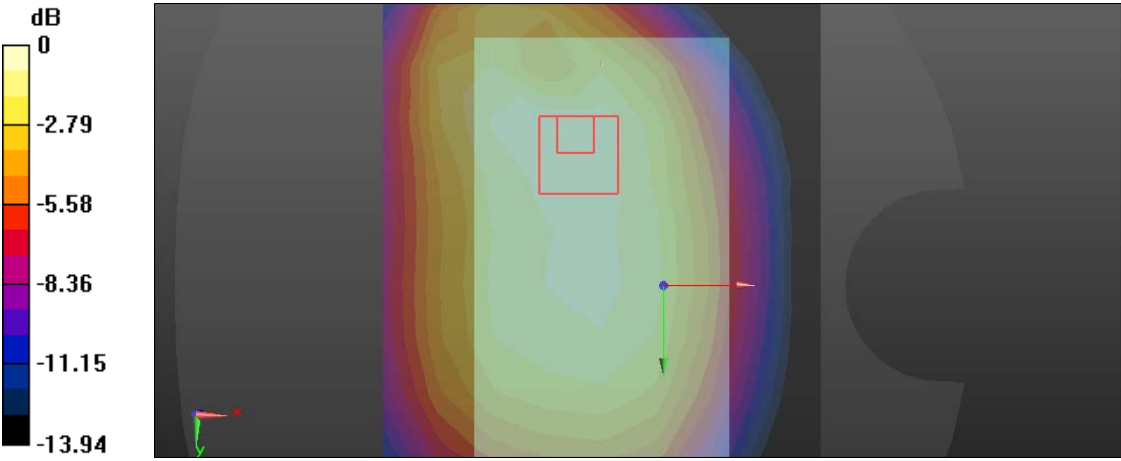
FLAT	Towards ground
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz;Duty Cycle: 1:8.6896            Medium parameters used (interpolated): f = 836.6 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 850 TG/850GSM TG M 10mm/Area Scan (9x13x1):</b>            Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.447 W/kg</p> <p><b>Flat-Section MSL 850 TG/850GSM TG M 10mm/Zoom Scan (7x7x7)/Cube 0:</b>            Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 19.99 V/m; Power Drift = -0.06 dB            Peak SAR (extrapolated) = 0.591 W/kg  <b>SAR(1 g) = 0.420 W/kg; SAR(10 g) = 0.298 W/kg</b>            Maximum value of SAR (measured) = 0.448 W/kg</p>	
 <p>0 dB = 0.448 W/kg = -3.49 dBW/kg</p>	

**GSM (850MHz with GPRS/Flat)**

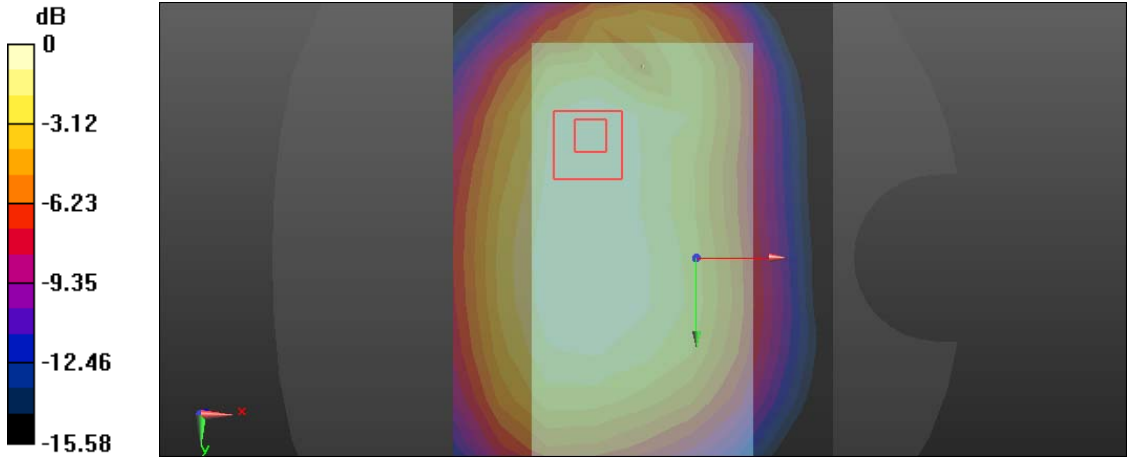
FLAT	Towards phantom
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz;Duty Cycle: 1:8.6896            Medium parameters used (interpolated): f = 836.6 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 850 TP/850GPRS TP M 10mm/Area Scan (9x13x1):</b>            Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.723 W/kg</p> <p><b>Flat-Section MSL 850 TP/850GPRS TP M 10mm/Zoom Scan (7x7x7)/Cube 0:</b>            Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 26.20 V/m; Power Drift = -0.02 dB            Peak SAR (extrapolated) = 0.983 W/kg  <b>SAR(1 g) = 0.702 W/kg; SAR(10 g) = 0.503 W/kg</b>            Maximum value of SAR (measured) = 0.743 W/kg</p>	
 <p>0 dB = 0.743 W/kg = -1.29 dBW/kg</p>	

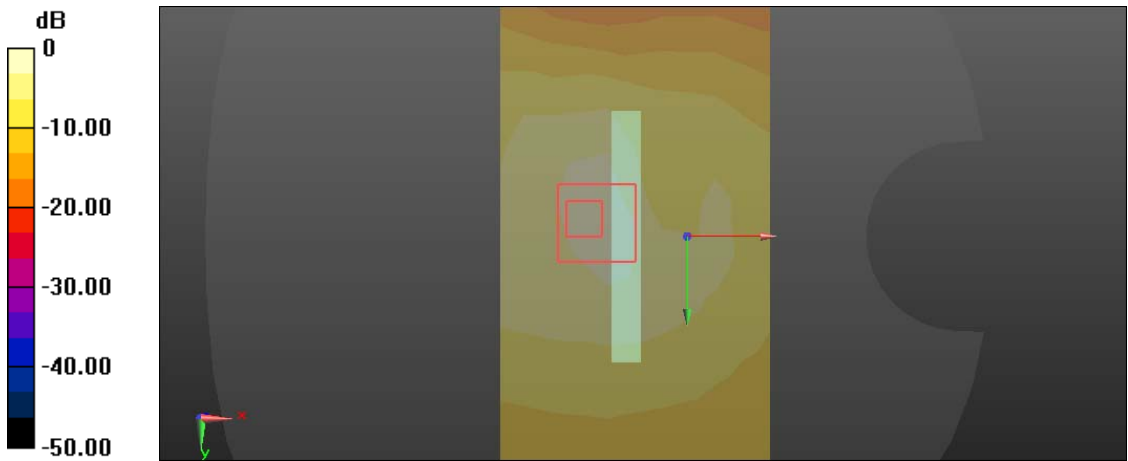
FLAT	Towards ground
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz;Duty Cycle: 1:8.6896            Medium parameters used (interpolated): f = 836.6 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 850 TG/850GPRS TG M 10mm/Area Scan (9x13x1):</b>            Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.821 W/kg</p> <p><b>Flat-Section MSL 850 TG/850GPRS TG M 10mm/Zoom Scan (7x7x7)/Cube 0:</b>            Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 27.07 V/m; Power Drift = -0.00 dB            Peak SAR (extrapolated) = 1.06 W/kg  <b>SAR(1 g) = 0.783 W/kg; SAR(10 g) = 0.563 W/kg</b>            Maximum value of SAR (measured) = 0.833 W/kg</p> <div data-bbox="231 1310 1364 1769"> </div> <p>0 dB = 0.833 W/kg = -0.79 dBW/kg</p>	

**GSM (850MHz with EGPRS/Flat)**

FLAT	Towards phantom
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz;Duty Cycle: 1:8.6896            Medium parameters used (interpolated): f = 836.6 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 850 TP/850EDGE TP M 10mm/Area Scan (9x13x1):</b>            Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.709 W/kg</p> <p><b>Flat-Section MSL 850 TP/850EDGE TP M 10mm/Zoom Scan (7x7x7)/Cube 0:</b>            Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 26.06 V/m; Power Drift = -0.02 dB            Peak SAR (extrapolated) = 0.975 W/kg  <b>SAR(1 g) = 0.705 W/kg; SAR(10 g) = 0.504 W/kg</b>            Maximum value of SAR (measured) = 0.747 W/kg</p>	
 <p>0 dB = 0.747 W/kg = -1.27 dBW/kg</p>	



FLAT	Towards ground
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896            Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 850 TG/850EGPRS TG M 10mm/Area Scan (9x13x1):</b>            Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.829 W/kg</p> <p><b>Flat-Section MSL 850 TG/850EGPRS TG M 10mm/Zoom Scan (7x7x7)/Cube 0:</b>            Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 27.01 V/m; Power Drift = 0.06 dB            Peak SAR (extrapolated) = 1.08 W/kg  <b>SAR(1 g) = 0.787 W/kg; SAR(10 g) = 0.565 W/kg</b>            Maximum value of SAR (measured) = 0.837 W/kg</p>	
 <p>0 dB = 0.837 W/kg = -0.77 dBW/kg</p>	

FLAT	EDGE2
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896</p> <p>Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup></p> <p>Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL GSM850 HOT/850EGPRS TP H edge 2/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.320 W/kg</p> <p><b>Flat-Section MSL GSM850 HOT/850EGPRS TP H edge 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 14.86 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 0.750 W/kg <b>SAR(1 g) = 0.382 W/kg; SAR(10 g) = 0.189 W/kg</b> Maximum value of SAR (measured) = 0.435 W/kg</p>  <p>0 dB = 0.435 W/kg = -3.62 dBW/kg</p>	

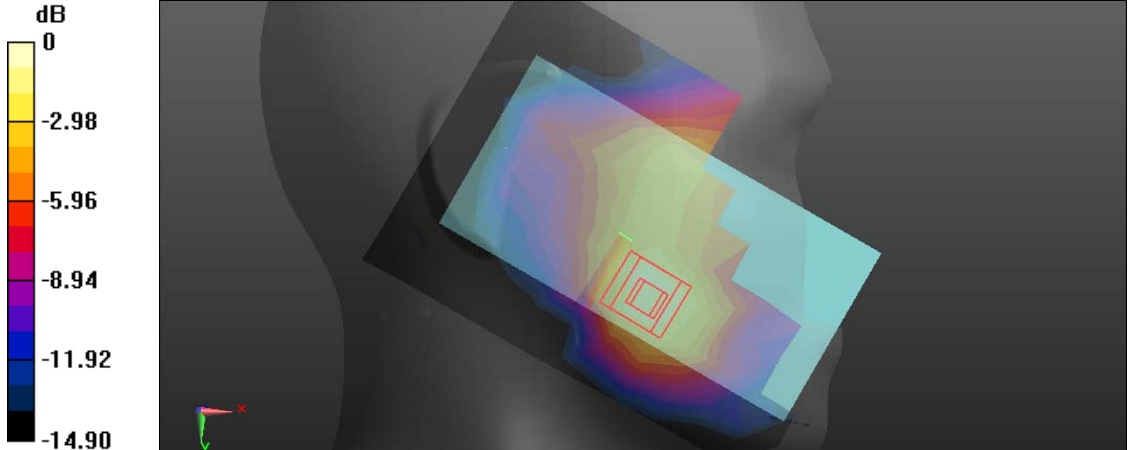
FLAT	EDGE3						
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz;Duty Cycle: 1:8.6896            Medium parameters used (interpolated): f = 836.6 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL GSM850 HOT/850EGPRS TP H edge 3/Area Scan (6x15x1):</b>            Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.750 W/kg</p> <p><b>Flat-Section MSL GSM850 HOT/850EGPRS TP H edge 3/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 26.89 V/m; Power Drift = -0.02 dB            Peak SAR (extrapolated) = 1.05 W/kg  <b>SAR(1 g) = 0.709 W/kg; SAR(10 g) = 0.480 W/kg</b>            Maximum value of SAR (measured) = 0.757 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 10px;"> <p><b>dB</b></p> <table border="1"> <tr><td>0</td></tr> <tr><td>-1.97</td></tr> <tr><td>-3.95</td></tr> <tr><td>-5.92</td></tr> <tr><td>-7.90</td></tr> <tr><td>-9.87</td></tr> </table> </div> </div> <p style="text-align: center;">0 dB = 0.757 W/kg = -1.21 dBW/kg</p>		0	-1.97	-3.95	-5.92	-7.90	-9.87
0							
-1.97							
-3.95							
-5.92							
-7.90							
-9.87							

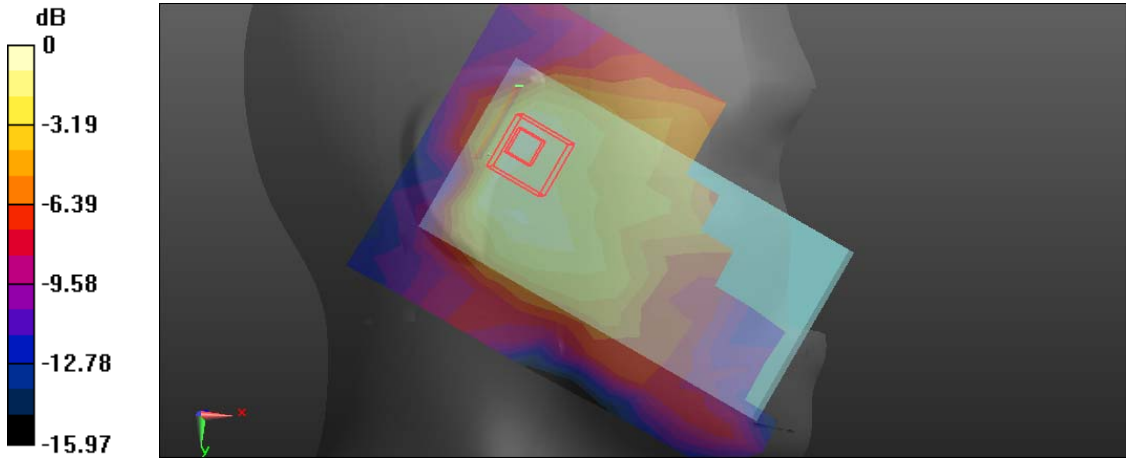
FLAT	EDGE4
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz;Duty Cycle: 1:8.6896            Medium parameters used (interpolated): f = 836.6 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL GSM850 HOT/850EGPRS TP H edge 4/Area Scan (6x15x1):</b>            Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.325 W/kg</p> <p><b>Flat-Section MSL GSM850 HOT/850EGPRS TP H edge 4/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 16.00 V/m; Power Drift = 0.07 dB            Peak SAR (extrapolated) = 0.504 W/kg  <b>SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.233 W/kg</b>            Maximum value of SAR (measured) = 0.366 W/kg</p> <div data-bbox="231 1310 1364 1769"> </div> <p>0 dB = 0.366 W/kg = -4.37 dBW/kg</p>	

**GSM (1900MHz/Head)**

Left Side	Cheek
Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz;Duty Cycle: 1:8.6896 Medium parameters used: f = 1880 MHz; $\sigma = 1.45$ S/m; $\epsilon_r = 39.74$ ; $\rho = 1000$ kg/m <sup>3</sup> Phantom section: Left Section	
DASY5 Configuration:	
<ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<b>Head-Section HSL 1900 LEFT/1900GSM HSL touch M/Area Scan (9x13x1):</b>	
Measurement grid: dx=15mm, dy=15mm	
Maximum value of SAR (measured) = 0.202 W/kg	
<b>Head-Section HSL 1900 LEFT/1900GSM HSL touch M/Zoom Scan (7x7x7)/Cube</b>	
<b>0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm	
Reference Value = 2.793 V/m; Power Drift = 0.12 dB	
Peak SAR (extrapolated) = 0.318 W/kg	
<b>SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.136 W/kg</b>	
Maximum value of SAR (measured) = 0.232 W/kg	
0 dB = 0.232 W/kg = -6.35 dBW/kg	

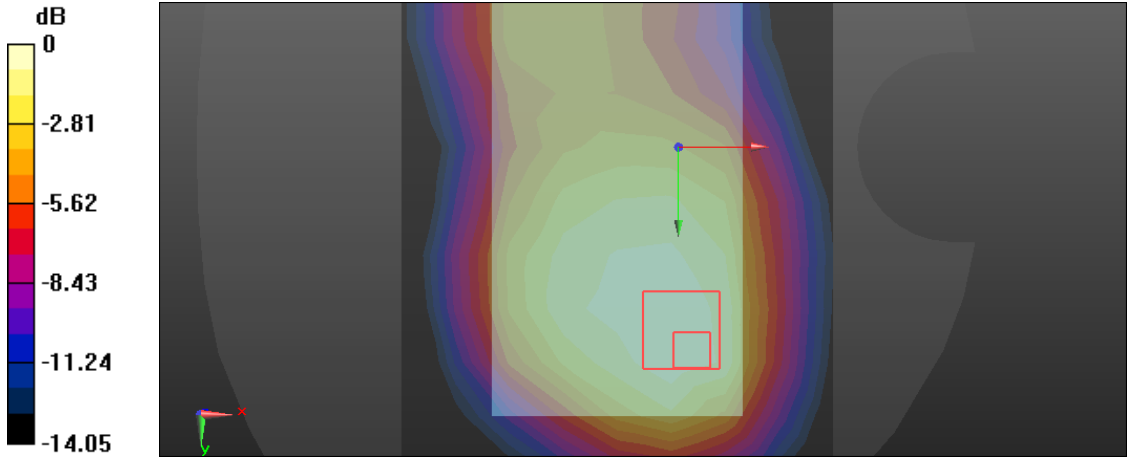
Left Side	Tilt
Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.6896 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ S/m; $\epsilon_r = 39.74$ ; $\rho = 1000$ kg/m <sup>3</sup> Phantom section: Left Section	
DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <b>Head-Section HSL 1900 LEFT/1900GSM HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0635 W/kg <b>Head-Section HSL 1900 LEFT/1900GSM HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 4.909 V/m; Power Drift = -0.20 dB Peak SAR (extrapolated) = 0.0950 W/kg <b>SAR(1 g) = 0.069 W/kg; SAR(10 g) = 0.045 W/kg</b> Maximum value of SAR (measured) = 0.0740 W/kg	
<p style="text-align: center;">0 dB = 0.0740 W/kg = -11.31 dBW/kg</p>	

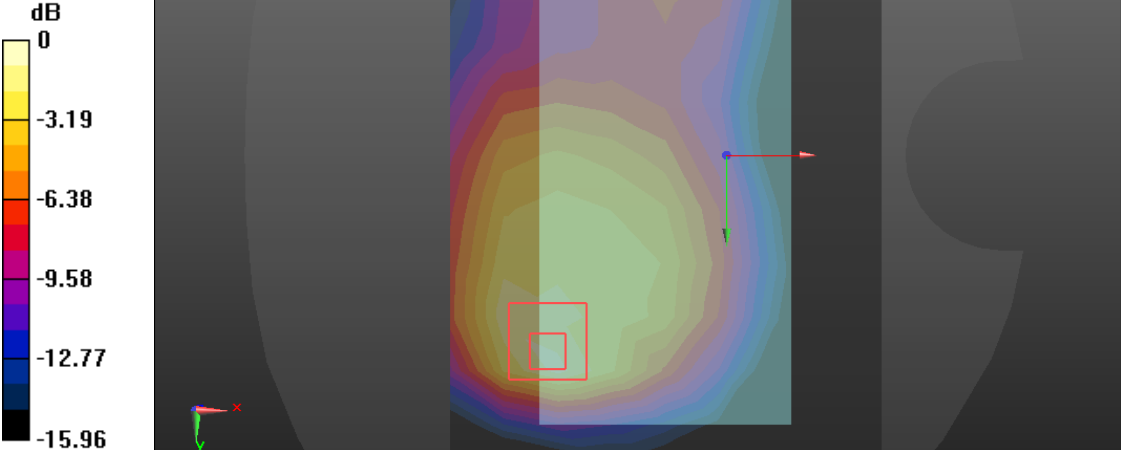
Right Side	Cheek
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz;Duty Cycle: 1:8.6896 Medium parameters used: f = 1880 MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL 1900 RIGHT/1900GSM HSL touch M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.146 W/kg</p> <p><b>Head-Section HSL 1900 RIGHT/1900GSM HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 3.643 V/m; Power Drift = 0.12 dB Peak SAR (extrapolated) = 0.226 W/kg <b>SAR(1 g) = 0.155 W/kg; SAR(10 g) = 0.099 W/kg</b> Maximum value of SAR (measured) = 0.172 W/kg</p>	
 <p>0 dB = 0.172 W/kg = -7.64 dBW/kg</p>	

Right Side	Tilt
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz;Duty Cycle: 1:8.6896 Medium parameters used: f = 1880 MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL 1900 RIGHT/1900GSM HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0536 W/kg</p> <p><b>Head-Section HSL 1900 RIGHT/1900GSM HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.462 V/m; Power Drift = -0.15 dB Peak SAR (extrapolated) = 0.0890 W/kg <b>SAR(1 g) = 0.056 W/kg; SAR(10 g) = 0.036 W/kg</b> Maximum value of SAR (measured) = 0.0604 W/kg</p>	
 <p>0 dB = 0.0604 W/kg = -12.19 dBW/kg</p>	

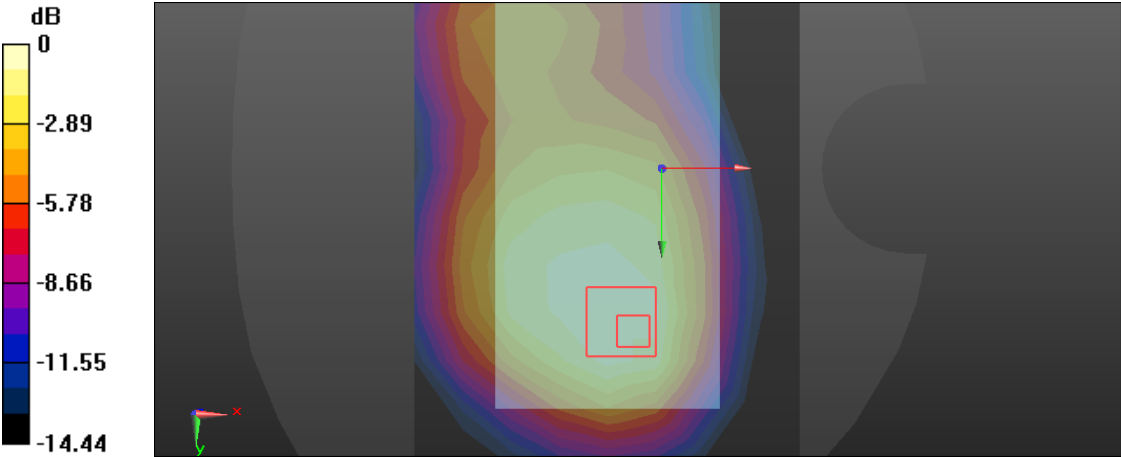


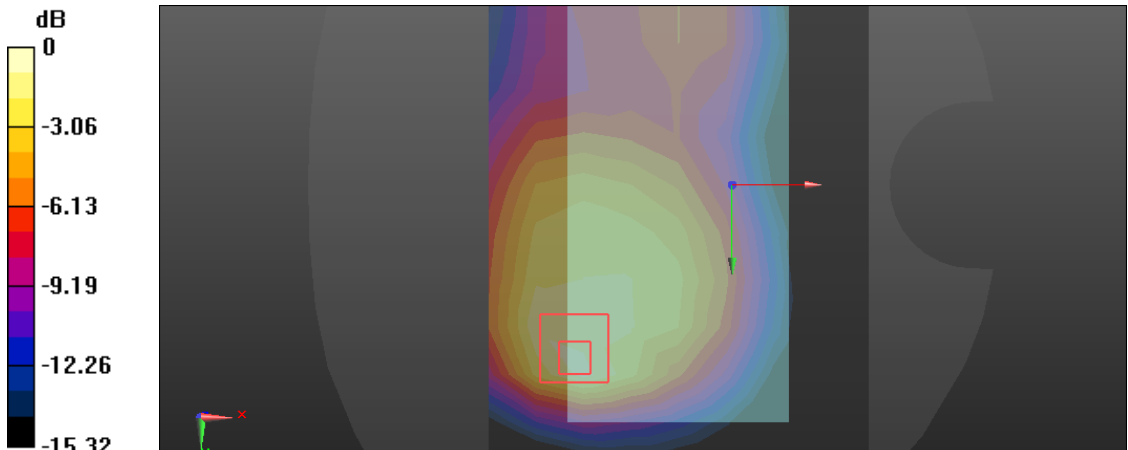
**GSM with headset (1900MHz/Flat)**

FLAT	Towards phantom
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz;Duty Cycle: 1:8.6896            Medium parameters used: f = 1880 MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 1900 TP/1900GSM TP M 10mm/Area Scan (9x13x1):</b>            Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.218 W/kg</p> <p><b>Flat-Section MSL 1900 TP/1900GSM TP M 10mm/Zoom Scan (7x7x7)/Cube 0:</b>            Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 8.398 V/m; Power Drift = 0.04 dB            Peak SAR (extrapolated) = 0.338 W/kg  <b>SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.138 W/kg</b>            Maximum value of SAR (measured) = 0.227 W/kg</p>	
 <p>0 dB = 0.227 W/kg = -6.44 dBW/kg</p>	

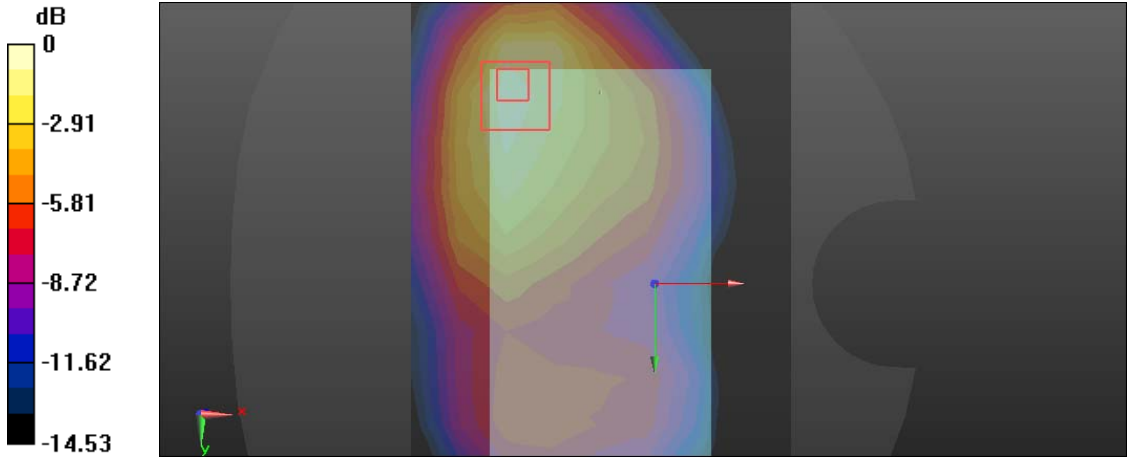
FLAT	Towards ground
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz;Duty Cycle: 1:8.6896            Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 1900 TG/1900GSM TG M 10mm/Area Scan (9x13x1):</b>            Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.505 W/kg</p> <p><b>Flat-Section MSL 1900 TG/1900GSM TG M 10mm/Zoom Scan (7x7x7)/Cube 0:</b>            Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 9.683 V/m; Power Drift = 0.12 dB            Peak SAR (extrapolated) = 0.878 W/kg  <b>SAR(1 g) = 0.523 W/kg; SAR(10 g) = 0.302 W/kg</b>            Maximum value of SAR (measured) = 0.582 W/kg</p>	
 <p>0 dB = 0.582 W/kg = -2.35 dBW/kg</p>	

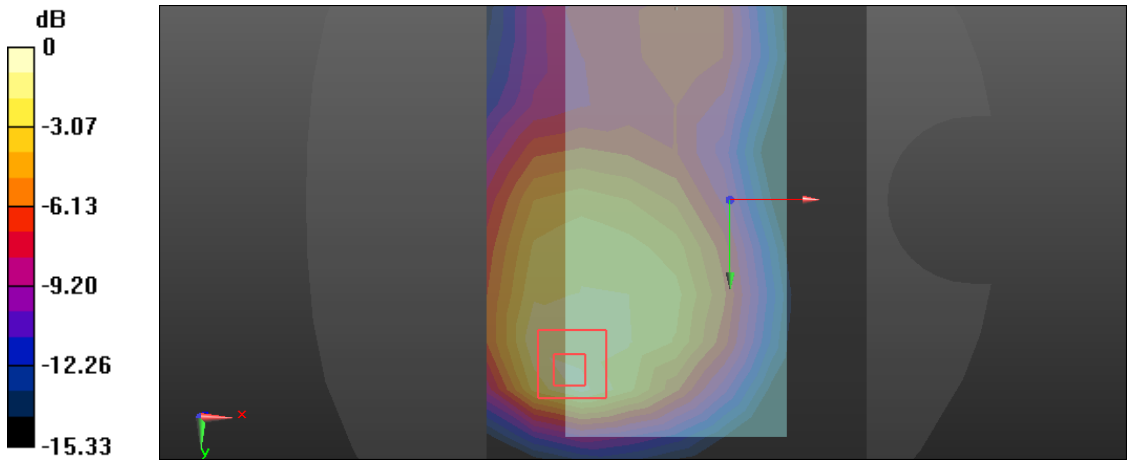
**GSM (1900MHz with GPRS/Flat)**

FLAT	Towards phantom
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz;Duty Cycle: 1:8.6896            Medium parameters used: f = 1880 MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 1900 TP/1900GPRS TP M 10mm/Area Scan (9x13x1):</b>            Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.396 W/kg</p> <p><b>Flat-Section MSL 1900 TP/1900GPRS TP M 10mm/Zoom Scan (7x7x7)/Cube 0:</b>            Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 12.61 V/m; Power Drift = 0.04 dB            Peak SAR (extrapolated) = 0.668 W/kg  <b>SAR(1 g) = 0.418 W/kg; SAR(10 g) = 0.269 W/kg</b>            Maximum value of SAR (measured) = 0.451 W/kg</p>	
 <p>0 dB = 0.451 W/kg = -3.46 dBW/kg</p>	

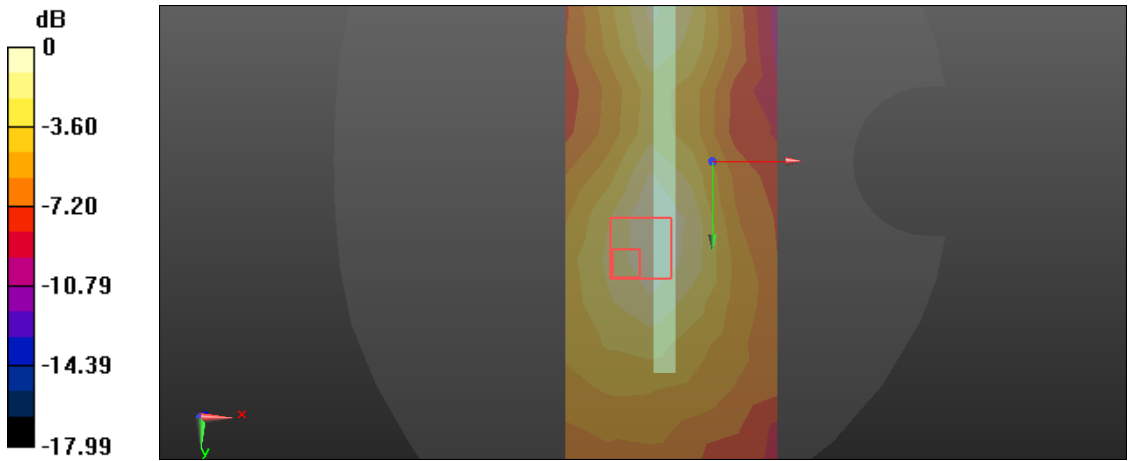
FLAT	Towards ground
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz;Duty Cycle: 1:8.6896            Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 1900 TG/1900GPRS TG M 10mm/Area Scan (9x13x1):</b>            Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.730 W/kg</p> <p><b>Flat-Section MSL 1900 TG/1900GPRS TG M 10mm/Zoom Scan (7x7x7)/Cube 0:</b>            Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 12.59 V/m; Power Drift = 0.06 dB            Peak SAR (extrapolated) = 1.25 W/kg  <b>SAR(1 g) = 0.757 W/kg; SAR(10 g) = 0.450 W/kg</b>            Maximum value of SAR (measured) = 0.833 W/kg</p>	
 <p>0 dB = 0.833 W/kg = -0.79 dBW/kg</p>	

**GSM (1900MHz with EGPRS/Flat)**

FLAT	Towards phantom
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz;Duty Cycle: 1:8.6896 Medium parameters used: f = 1880 MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 1900 TP/1900EDGE TP M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.522 W/kg</p> <p><b>Flat-Section MSL 1900 TP/1900EDGE TP M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 8.130 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.820 W/kg <b>SAR(1 g) = 0.488 W/kg; SAR(10 g) = 0.294 W/kg</b> Maximum value of SAR (measured) = 0.532 W/kg</p>	
 <p>0 dB = 0.532 W/kg = -2.74 dBW/kg</p>	

FLAT	Towards ground
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz;Duty Cycle: 1:8.6896 Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 1900 TG/1900EGPRS TG M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.748 W/kg</p> <p><b>Flat-Section MSL 1900 TG/1900EGPRS TG M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 12.69 V/m; Power Drift = 0.12 dB Peak SAR (extrapolated) = 1.30 W/kg <b>SAR(1 g) = 0.781 W/kg; SAR(10 g) = 0.462 W/kg</b> Maximum value of SAR (measured) = 0.860 W/kg</p>	
 <p>0 dB = 0.860 W/kg = -0.66 dBW/kg</p>	

FLAT	EDGE2
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz;Duty Cycle: 1:8.6896            Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 1900 HOTSPOT/1900EGPRS TP H edge 2/Area Scan (6x15x1):</b>            Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.419 W/kg</p> <p><b>Flat-Section MSL 1900 HOTSPOT/1900EGPRS TP H edge 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 12.32 V/m; Power Drift = 0.12 dB            Peak SAR (extrapolated) = 0.716 W/kg  <b>SAR(1 g) = 0.453 W/kg; SAR(10 g) = 0.273 W/kg</b>            Maximum value of SAR (measured) = 0.497 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 10px;"> <p>dB</p> <p>0 -2.69 -5.39 -8.08 -10.78 -13.47</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.497 W/kg = -3.04 dBW/kg</p>	

FLAT	EDGE3
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz;Duty Cycle: 1:8.6896 Medium parameters used: f = 1880 MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 1900 HOTSPOT/1900EGPRS TP H edge 3/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.135 W/kg</p> <p><b>Flat-Section MSL 1900 HOTSPOT/1900EGPRS TP H edge 3/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 7.485 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 0.182 W/kg <b>SAR(1 g) = 0.116 W/kg; SAR(10 g) = 0.064 W/kg</b> Maximum value of SAR (measured) = 0.131 W/kg</p>	
 <p>0 dB = 0.131 W/kg = -8.83 dBW/kg</p>	



FLAT	EDGE4
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz;Duty Cycle: 1:8.6896            Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 1900 HOTSPOT/1900EGPRS TP H edge 4/Area Scan (6x15x1):</b>            Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.178 W/kg</p> <p><b>Flat-Section MSL 1900 HOTSPOT/1900EGPRS TP H edge 4/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 6.377 V/m; Power Drift = 0.17 dB            Peak SAR (extrapolated) = 0.252 W/kg  <b>SAR(1 g) = 0.168 W/kg; SAR(10 g) = 0.107 W/kg</b>            Maximum value of SAR (measured) = 0.182 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 10px;"> <p>dB</p> <p>0 -2.46 -4.92 -7.38 -9.84 -12.30</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.182 W/kg = -7.40 dBW/kg</p>	

**WCDMA Band 2**

Left Side	Cheek
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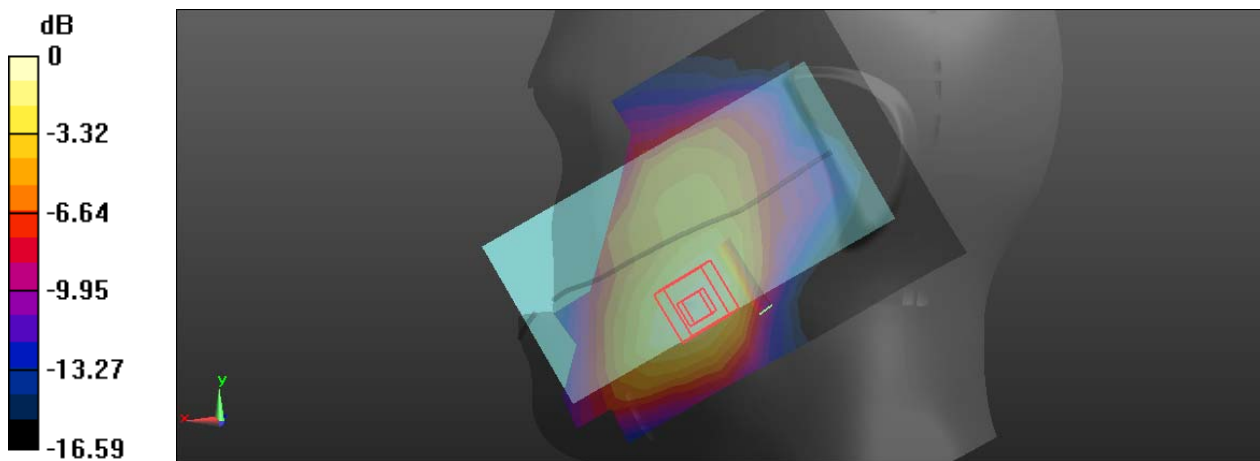
Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.45$  S/m;  $\epsilon_r = 39.74$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

**Head-Section HSL wcdma band2 Left/wcdma band2 HSL touch M/Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.392 W/kg

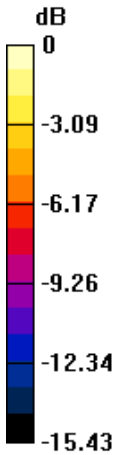
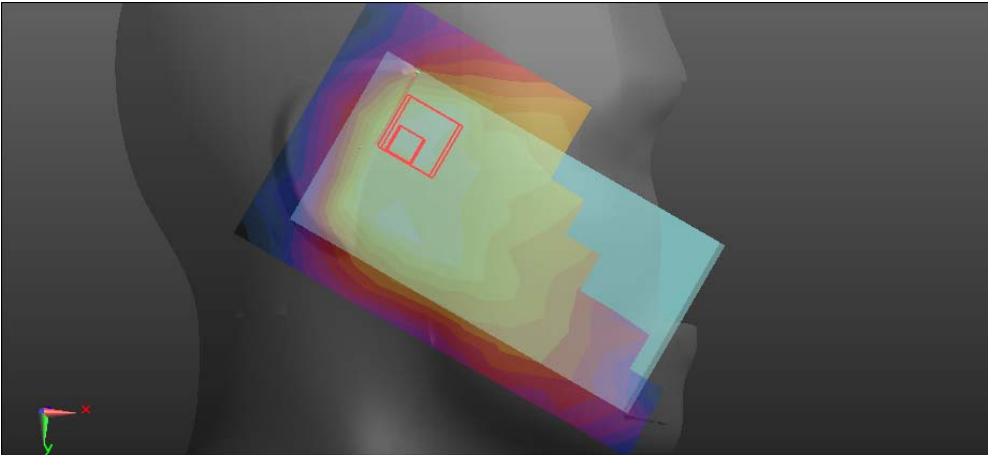
**Head-Section HSL wcdma band2 Left/wcdma band2 HSL touch M/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 4.210 V/m; Power Drift = 0.22 dB  
Peak SAR (extrapolated) = 0.599 W/kg  
**SAR(1 g) = 0.372 W/kg; SAR(10 g) = 0.225 W/kg**  
Maximum value of SAR (measured) = 0.404 W/kg

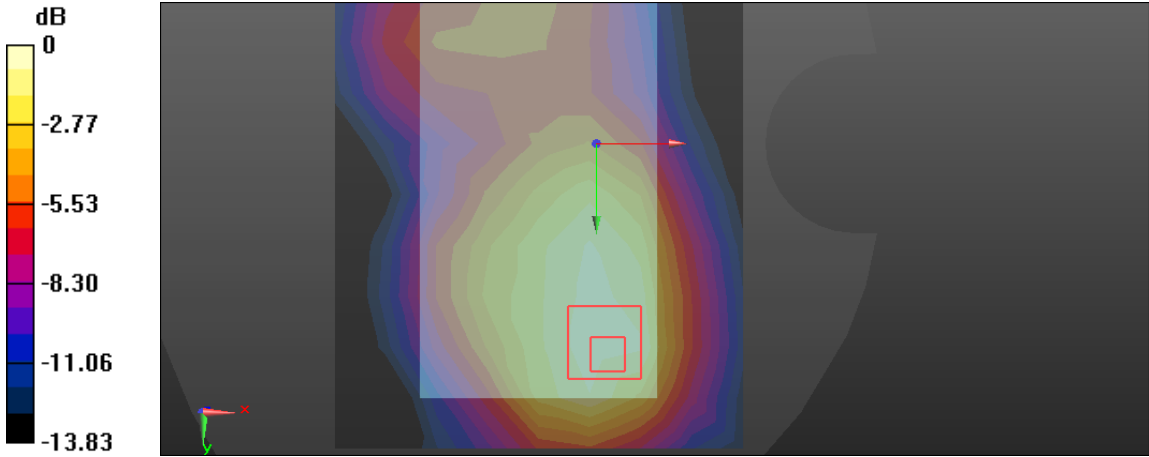


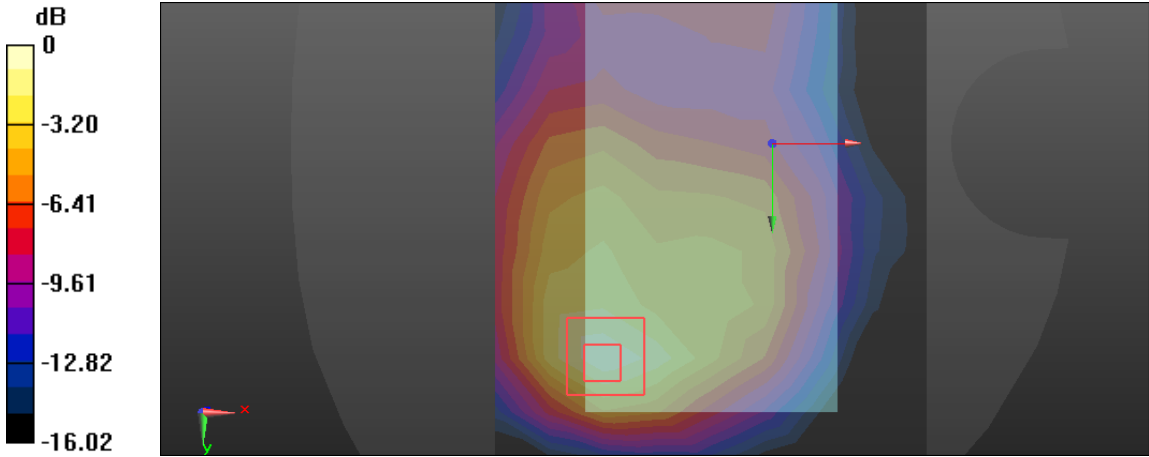
0 dB = 0.404 W/kg = -3.94 dBW/kg

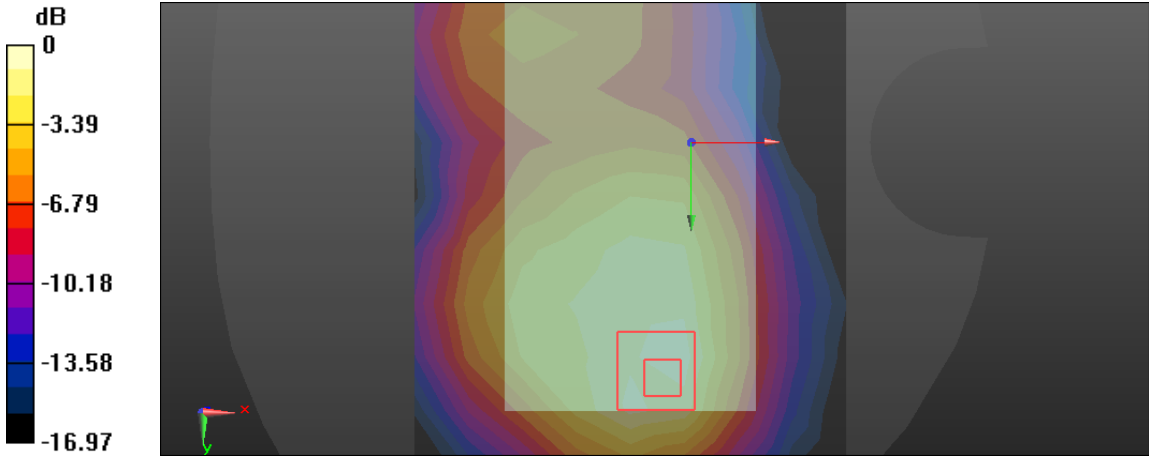
Left Side	Tilt
Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$ ; $\sigma = 1.45 \text{ S/m}$ ; $\epsilon_r = 39.74$ ; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Left Section	
DASY5 Configuration:	
<ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band2 Left/wcdma band2 HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>                      Maximum value of SAR (measured) = 0.124 W/kg</p> <p><b>Head-Section HSL wcdma band2 Left/wcdma band2 HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>                      Reference Value = 7.227 V/m; Power Drift = 0.13 dB                      Peak SAR (extrapolated) = 0.192 W/kg  <b>SAR(1 g) = 0.126 W/kg; SAR(10 g) = 0.080 W/kg</b>                      Maximum value of SAR (measured) = 0.136 W/kg</p>	
<p>0 dB = 0.136 W/kg = -8.66 dBW/kg</p>	

Right Side	Cheek
<p>Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Head-Section HSL wcdma band2 Right/wcdma band2 HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.264 W/kg</p>	
<p><b>Head-Section HSL wcdma band2 Right/wcdma band2 HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 3.458 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 0.380 W/kg</p>	
<p><b>SAR(1 g) = 0.250 W/kg; SAR(10 g) = 0.152 W/kg</b> Maximum value of SAR (measured) = 0.272 W/kg</p>	

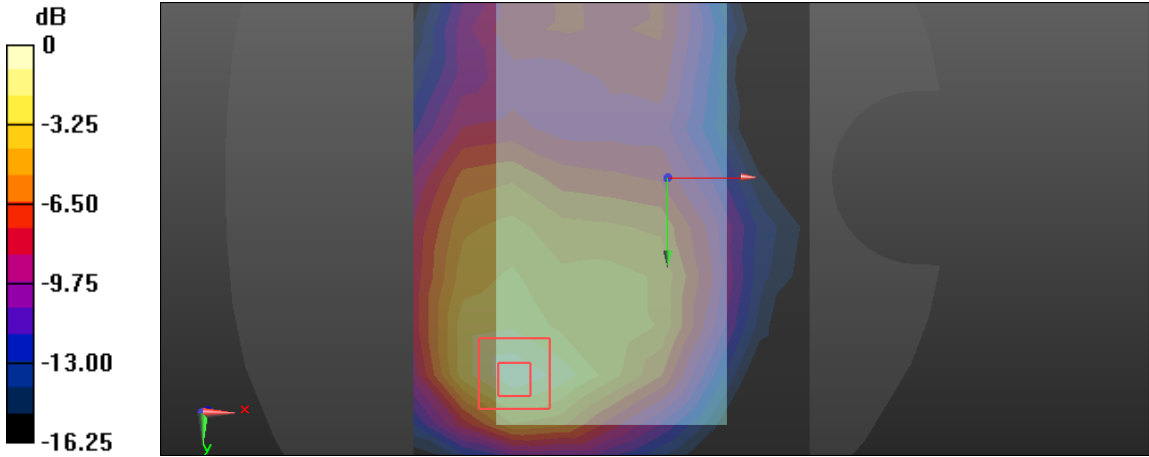
Right Side	Tilt
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Head-Section HSL wcdma band2 Right/wcdma band2 HSL tilt/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0881 W/kg</p>	
<p><b>Head-Section HSL wcdma band2 Right/wcdma band2 HSL tilt/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 6.343 V/m; Power Drift = 0.21 dB Peak SAR (extrapolated) = 0.129 W/kg <b>SAR(1 g) = 0.087 W/kg; SAR(10 g) = 0.052 W/kg</b> Maximum value of SAR (measured) = 0.0953 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>dB</p>  </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 0.0953 W/kg = -10.21 dBW/kg</p>	

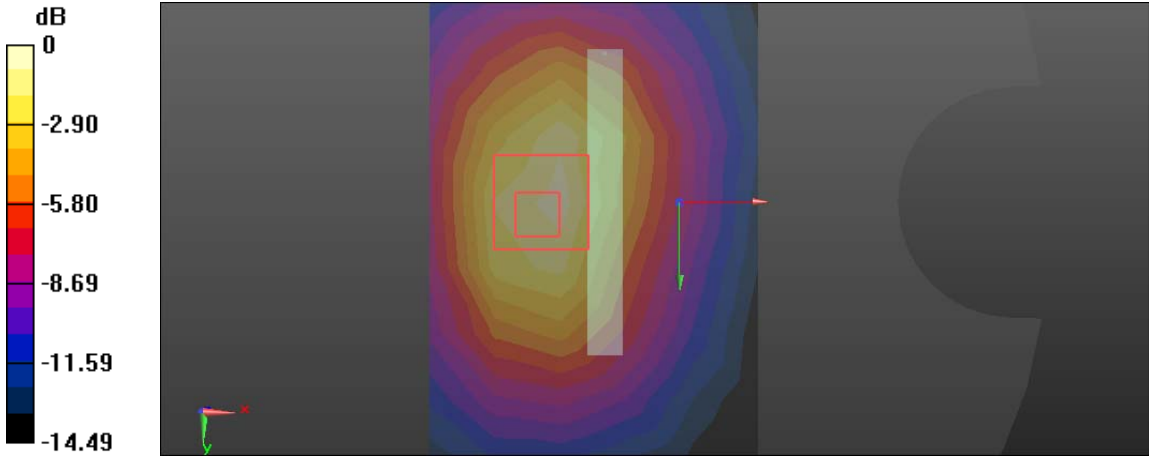
FLAT(VIOCE)	Towards phantom
<p>Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TP voice M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.461 W/kg</p> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TP voice M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 9.598 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 0.794 W/kg <b>SAR(1 g) = 0.454 W/kg; SAR(10 g) = 0.276 W/kg</b> Maximum value of SAR (measured) = 0.488 W/kg</p>	
 <p>0 dB = 0.488 W/kg = -3.12 dBW/kg</p>	

FLAT(VIOCE)	Towards ground
<p>Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TG voice M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.637 W/kg</p>	
<p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TG voice M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 9.305 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 1.01 W/kg</p>	
<p><b>SAR(1 g) = 0.572 W/kg; SAR(10 g) = 0.315 W/kg</b> Maximum value of SAR (measured) = 0.632 W/kg</p>	
	
<p>0 dB = 0.632 W/kg = -1.99 dBW/kg</p>	

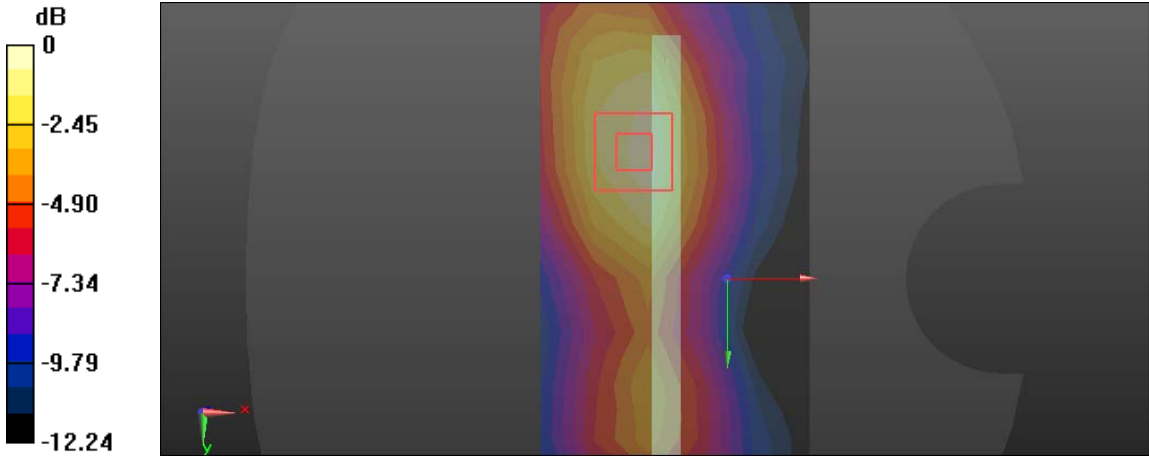
FLAT(DATA)	Towards phantom
<p>Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TP DATA M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.403 W/kg</p> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TP DATA M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 8.642 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 0.736 W/kg <b>SAR(1 g) = 0.418 W/kg; SAR(10 g) = 0.241 W/kg</b> Maximum value of SAR (measured) = 0.457 W/kg</p>	
 <p>0 dB = 0.457 W/kg = -3.40 dBW/kg</p>	



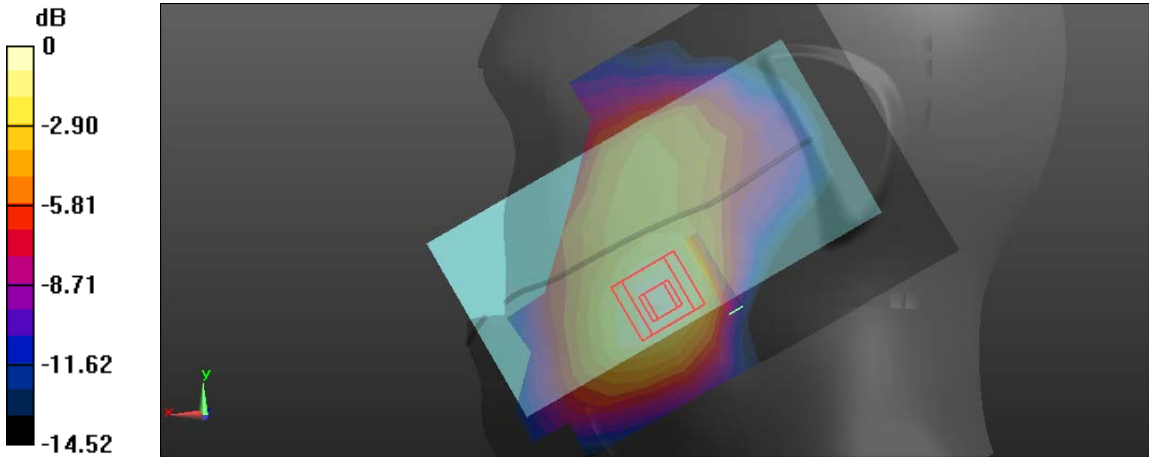
FLAT(DATA)	Towards ground
<p>Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TG DATA M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.628 W/kg</p> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TG DATA M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 8.611 V/m; Power Drift = 0.14 dB Peak SAR (extrapolated) = 0.999 W/kg <b>SAR(1 g) = 0.568 W/kg; SAR(10 g) = 0.314 W/kg</b> Maximum value of SAR (measured) = 0.633 W/kg</p>	
 <p>0 dB = 0.633 W/kg = -1.99 dBW/kg</p>	

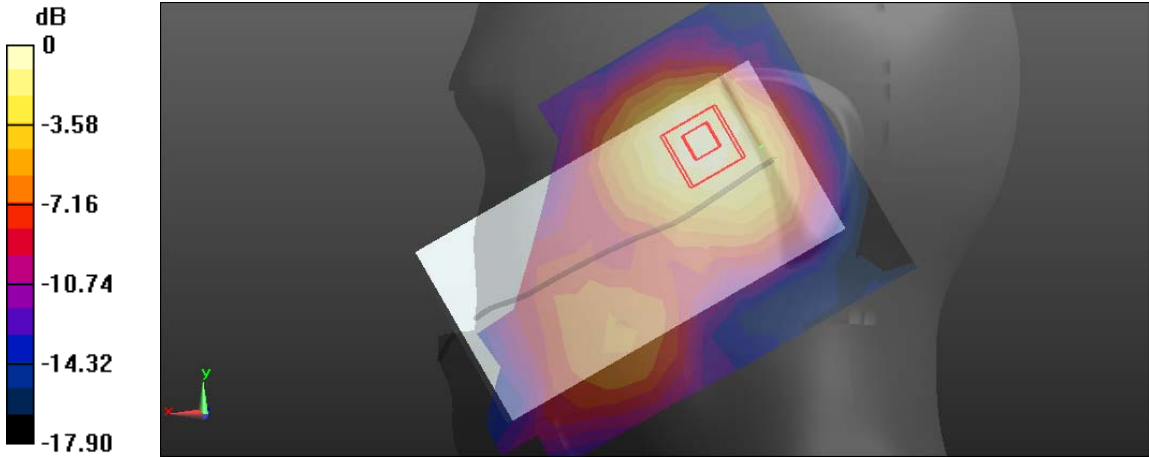
FLAT	EDGE2
<p>Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band2 HOT/wcdma band2 10mm M edge 2/Area Scan (6x11x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.542 W/kg</p> <p><b>Flat-Section MSL wcdma band2 HOT/wcdma band2 10mm M edge 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 13.82 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 0.893 W/kg <b>SAR(1 g) = 0.541 W/kg; SAR(10 g) = 0.313 W/kg</b> Maximum value of SAR (measured) = 0.593 W/kg</p>	
 <p>0 dB = 0.593 W/kg = -2.27 dBW/kg</p>	

FLAT	EDGE3
<p>Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1            Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band2 HOT/wcdma band2 10mm M edge 3/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.0766 W/kg</p> <p><b>Flat-Section MSL wcdma band2 HOT/wcdma band2 10mm M edge 3/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 4.139 V/m; Power Drift = 0.07 dB            Peak SAR (extrapolated) = 0.131 W/kg  <b>SAR(1 g) = 0.080 W/kg; SAR(10 g) = 0.051 W/kg</b>            Maximum value of SAR (measured) = 0.0853 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 10px;"> <p>dB</p> <p>0 -2.54 -5.08 -7.62 -10.16 -12.70</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.0853 W/kg = -10.69 dBW/kg</p>	

FLAT	EDGE4
<p>Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band2 HOT/wcdma band2 10mm M edge 4/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.392 W/kg</p> <p><b>Flat-Section MSL wcdma band2 HOT/wcdma band2 10mm M edge 4/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 9.672 V/m; Power Drift = 0.18 dB Peak SAR (extrapolated) = 0.604 W/kg <b>SAR(1 g) = 0.382 W/kg; SAR(10 g) = 0.234 W/kg</b> Maximum value of SAR (measured) = 0.415 W/kg</p>	
 <p>0 dB = 0.415 W/kg = -3.82 dBW/kg</p>	

**WCDMA Band 4**

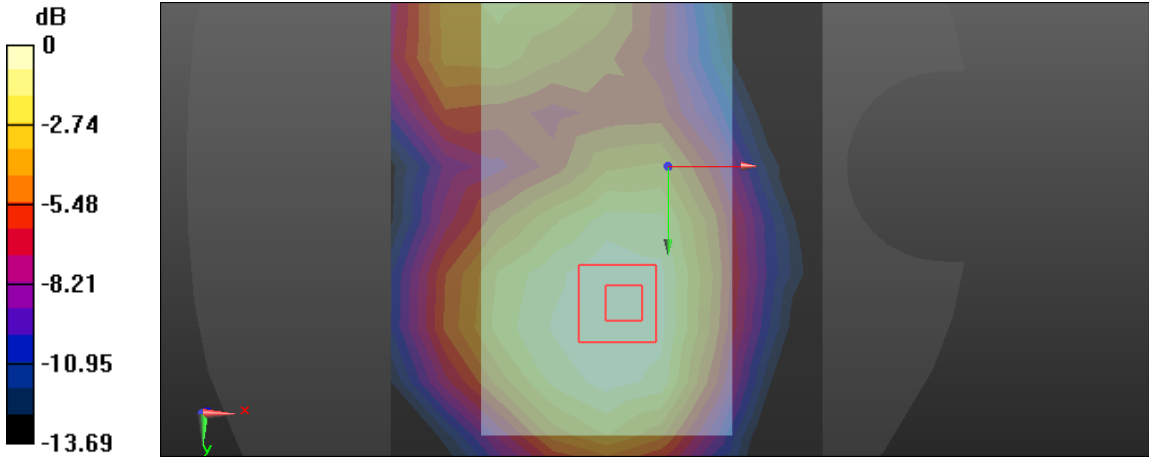
Left Side	Cheek
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 1732.6</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band4 Left/wcdma band4 HSL touch M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.345 W/kg</p> <p><b>Head-Section HSL wcdma band4 Left/wcdma band4 HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 5.368 V/m; Power Drift = 0.17 dB            Peak SAR (extrapolated) = 0.529 W/kg  <b>SAR(1 g) = 0.353 W/kg; SAR(10 g) = 0.230 W/kg</b>            Maximum value of SAR (measured) = 0.379 W/kg</p>	
 <p>0 dB = 0.379 W/kg = -4.21 dBW/kg</p>	

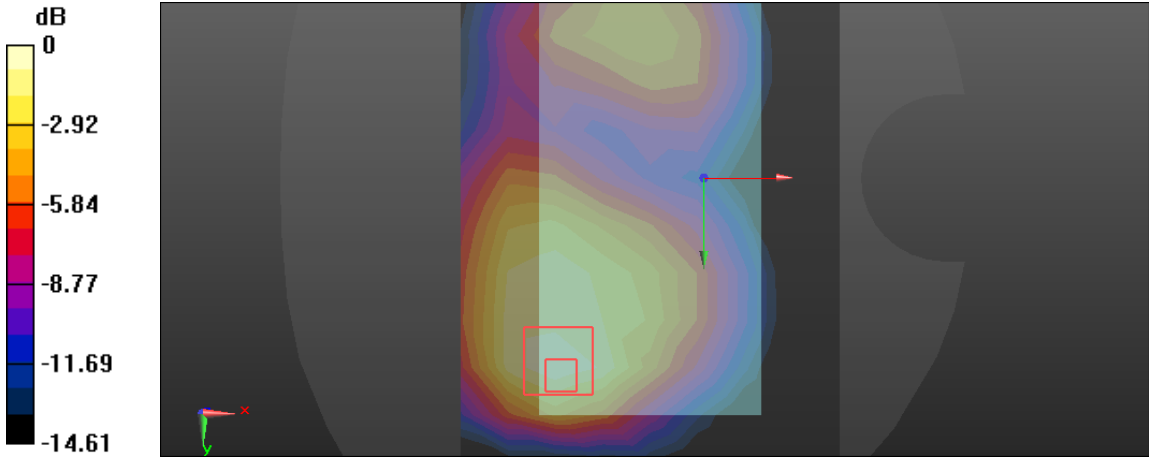
Left Side	Tilt
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz;Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 1732.6</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band4 Left/wcdma band4 HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.209 W/kg</p> <p><b>Head-Section HSL wcdma band4 Left/wcdma band4 HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 10.23 V/m; Power Drift = 0.02 dB            Peak SAR (extrapolated) = 0.275 W/kg  <b>SAR(1 g) = 0.200 W/kg; SAR(10 g) = 0.133 W/kg</b>            Maximum value of SAR (measured) = 0.213 W/kg</p>	
 <p>0 dB = 0.213 W/kg = -6.72 dBW/kg</p>	

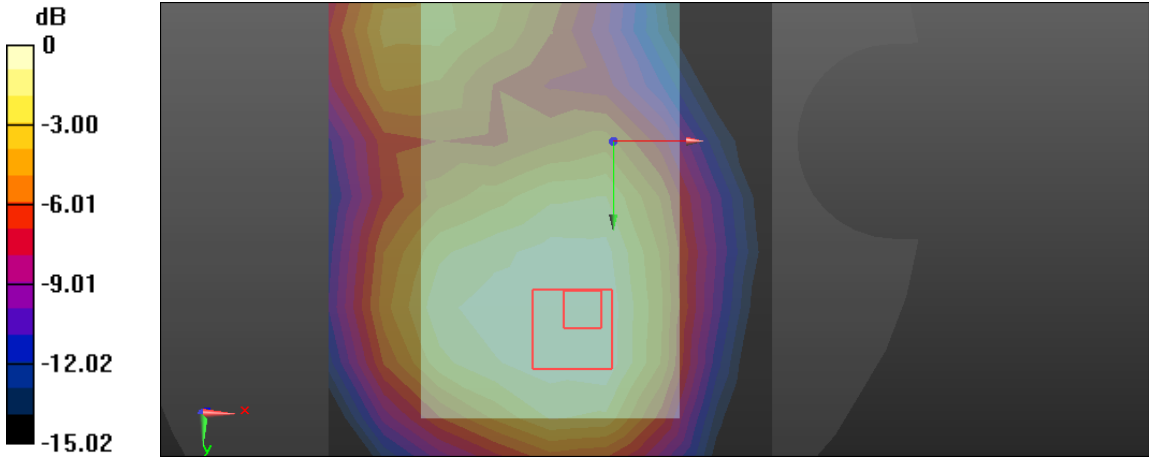
Right Side	Cheek
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz;Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 1732.6</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band4 Right/wcdma band4 HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.260 W/kg</p> <p><b>Head-Section HSL wcdma band4 Right/wcdma band4 HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 5.602 V/m; Power Drift = 0.07 dB            Peak SAR (extrapolated) = 0.361 W/kg  <b>SAR(1 g) = 0.246 W/kg; SAR(10 g) = 0.157 W/kg</b>            Maximum value of SAR (measured) = 0.265 W/kg</p> <div data-bbox="220 1310 1374 1765"> </div> <p>0 dB = 0.265 W/kg = -5.77 dBW/kg</p>	

Right Side	Tilt
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 1732.6</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band4 Right/wcdma band4 HSL tilt/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.168 W/kg</p> <p><b>Head-Section HSL wcdma band4 Right/wcdma band4 HSL tilt/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 9.780 V/m; Power Drift = -0.02 dB            Peak SAR (extrapolated) = 0.250 W/kg  <b>SAR(1 g) = 0.170 W/kg; SAR(10 g) = 0.110 W/kg</b>            Maximum value of SAR (measured) = 0.184 W/kg</p> <div data-bbox="220 1310 1374 1765"> </div> <p>0 dB = 0.184 W/kg = -7.35 dBW/kg</p>	

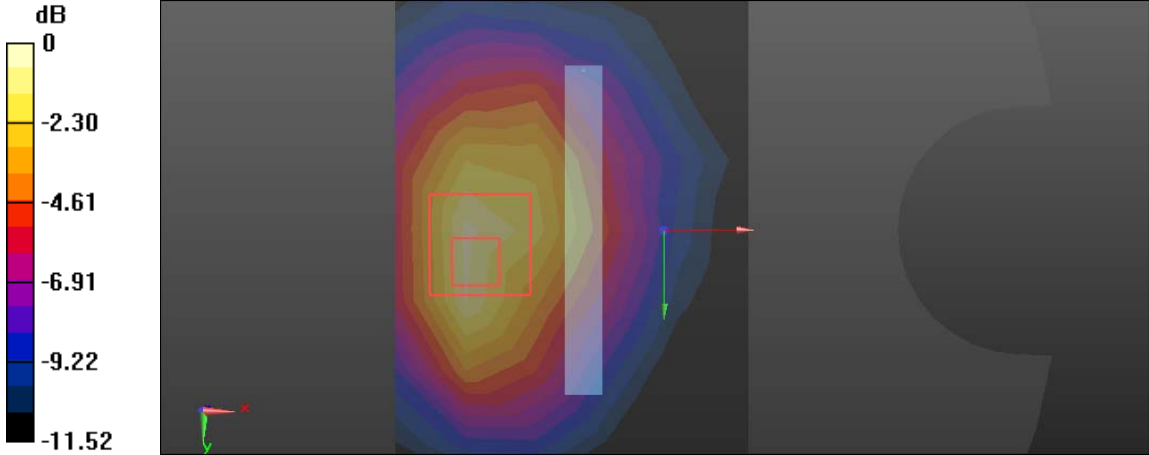


FLAT(VIOCE)	Towards phantom
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz;Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 1732.6</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TP voice M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.399 W/kg</p> <p><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TP voice M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 10.97 V/m; Power Drift = -0.19 dB            Peak SAR (extrapolated) = 0.573 W/kg  <b>SAR(1 g) = 0.380 W/kg; SAR(10 g) = 0.251 W/kg</b>            Maximum value of SAR (measured) = 0.404 W/kg</p>	
 <p>0 dB = 0.404 W/kg = -3.94 dBW/kg</p>	

FLAT(VIOCE )	Towards ground
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz;Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 1732.6</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TG voice M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.725 W/kg</p> <p><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TG voice M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 6.566 V/m; Power Drift = 0.09 dB            Peak SAR (extrapolated) = 1.14 W/kg  <b>SAR(1 g) = 0.662 W/kg; SAR(10 g) = 0.389 W/kg</b>            Maximum value of SAR (measured) = 0.730 W/kg</p>	
 <p>0 dB = 0.730 W/kg = -1.37 dBW/kg</p>	

FLAT(DATA)	Towards phantom
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz;Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 1732.6</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TP DATA M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.413 W/kg</p> <p><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TP DATA M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 9.740 V/m; Power Drift = -0.05 dB            Peak SAR (extrapolated) = 0.655 W/kg  <b>SAR(1 g) = 0.402 W/kg; SAR(10 g) = 0.264 W/kg</b>            Maximum value of SAR (measured) = 0.428 W/kg</p>	
 <p>0 dB = 0.428 W/kg = -3.69 dBW/kg</p>	

FLAT(DATA)	Towards ground
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz;Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 1732.6</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TG DATA M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.760 W/kg</p> <p><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TG DATA M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 6.521 V/m; Power Drift = 0.09 dB            Peak SAR (extrapolated) = 1.19 W/kg  <b>SAR(1 g) = 0.702 W/kg; SAR(10 g) = 0.420 W/kg</b>            Maximum value of SAR (measured) = 0.768 W/kg</p> <div data-bbox="220 1310 1374 1765"> </div>	

FLAT	EDGE2
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz;Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 1732.6</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band4 HOT/wcdma band4 10mm M edge 2/Area Scan (6x11x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.372 W/kg</p> <p><b>Flat-Section MSL wcdma band4 HOT/wcdma band4 10mm M edge 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 11.17 V/m; Power Drift = 0.18 dB            Peak SAR (extrapolated) = 0.558 W/kg  <b>SAR(1 g) = 0.373 W/kg; SAR(10 g) = 0.232 W/kg</b>            Maximum value of SAR (measured) = 0.413 W/kg</p>  <p>0 dB = 0.413 W/kg = -3.84 dBW/kg</p>	

FLAT	EDGE3
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz;Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 1732.6</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band4 HOT/wcdma band4 10mm M edge 3/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.124 W/kg</p> <p><b>Flat-Section MSL wcdma band4 HOT/wcdma band4 10mm M edge 3/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 3.861 V/m; Power Drift = -0.06 dB            Peak SAR (extrapolated) = 0.206 W/kg  <b>SAR(1 g) = 0.130 W/kg; SAR(10 g) = 0.082 W/kg</b>            Maximum value of SAR (measured) = 0.147 W/kg</p> <div data-bbox="220 1310 1374 1765"> </div>	

FLAT	EDGE4
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz;Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 1732.6</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band4 HOT/wcdma band4 10mm M edge 4/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.226 W/kg</p> <p><b>Flat-Section MSL wcdma band4 HOT/wcdma band4 10mm M edge 4/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 6.757 V/m; Power Drift = 0.09 dB            Peak SAR (extrapolated) = 0.323 W/kg  <b>SAR(1 g) = 0.186 W/kg; SAR(10 g) = 0.115 W/kg</b>            Maximum value of SAR (measured) = 0.207 W/kg</p> <div data-bbox="220 1310 1374 1765"> <p>The figure is a heatmap representing SAR values. On the left, a vertical color scale ranges from 0 dB (yellow) at the top to -13.94 dB (black) at the bottom, with intermediate markers at -2.79, -5.58, -8.36, and -11.15 dB. The main heatmap shows a complex pattern of colors, with a prominent red square highlighting a region of higher SAR. A red arrow points to the top-right corner of this square, and a green arrow points to the bottom-left corner. The background of the heatmap is dark, indicating lower SAR values.</p> </div> <p>0 dB = 0.207 W/kg = -6.84 dBW/kg</p>	

**WCDMA Band 5**

Left Side	Cheek
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434 Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 41.478$ ; $\rho = 1000$ kg/m <sup>3</sup> Phantom section: Left Section  DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 3mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band5 Left/wcdma band5 HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm                      Maximum value of SAR (measured) = 0.150 W/kg</p> <p><b>Head-Section HSL wcdma band5 Left/wcdma band5 HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm                      Reference Value = 2.322 V/m; Power Drift = -0.05 dB                      Peak SAR (extrapolated) = 0.180 W/kg  <b>SAR(1 g) = 0.135 W/kg; SAR(10 g) = 0.096 W/kg</b>                      Maximum value of SAR (measured) = 0.152 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -2.26 -4.53 -6.79 -9.06 -11.32</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.152 W/kg = -8.18 dBW/kg</p>	



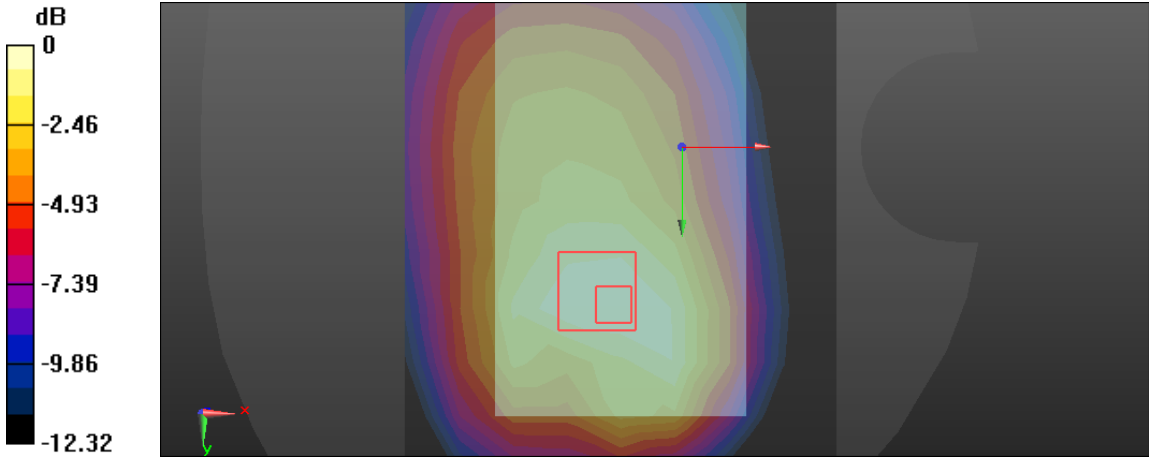
Left Side	Tilt
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz;Duty Cycle: 1:1.95434            Medium parameters used (interpolated): f = 836.6 MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.478</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 3mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band5 Left/wcdma band5 HSL tilt/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.0711 W/kg</p> <p><b>Head-Section HSL wcdma band5 Left/wcdma band5 HSL tilt/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 4.678 V/m; Power Drift = 0.06 dB            Peak SAR (extrapolated) = 0.0790 W/kg  <b>SAR(1 g) = 0.065 W/kg; SAR(10 g) = 0.052 W/kg</b>            Maximum value of SAR (measured) = 0.0696 W/kg</p> <div data-bbox="220 1310 1374 1765"> </div> <p>0 dB = 0.0696 W/kg = -11.57 dBW/kg</p>	

Right Side	Cheek
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz;Duty Cycle: 1:1.95434            Medium parameters used (interpolated): f = 836.6 MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.478</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band5 Right/wcdma band5 HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.142 W/kg</p> <p><b>Head-Section HSL wcdma band5 Right/wcdma band5 HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 3.727 V/m; Power Drift = -0.07 dB            Peak SAR (extrapolated) = 0.176 W/kg  <b>SAR(1 g) = 0.141 W/kg; SAR(10 g) = 0.111 W/kg</b>            Maximum value of SAR (measured) = 0.148 W/kg</p> <div data-bbox="220 1310 1374 1765"> </div> <p>0 dB = 0.148 W/kg = -8.30 dBW/kg</p>	

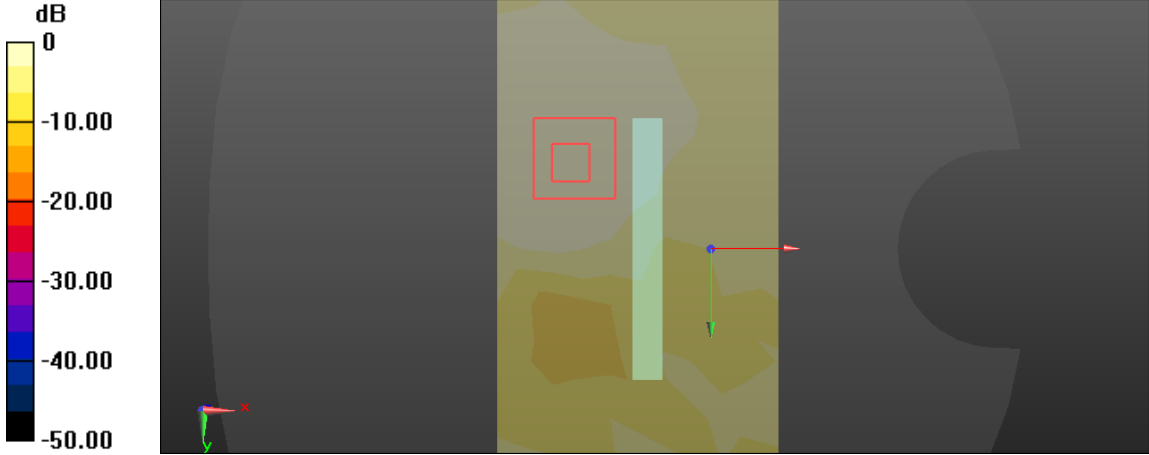
Right Side	Tilt
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz;Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.478</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band5 Right/wcdma band5 HSL tilt/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.0989 W/kg</p> <p><b>Head-Section HSL wcdma band5 Right/wcdma band5 HSL tilt/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 6.516 V/m; Power Drift = 0.04 dB            Peak SAR (extrapolated) = 0.120 W/kg  <b>SAR(1 g) = 0.098 W/kg; SAR(10 g) = 0.078 W/kg</b>            Maximum value of SAR (measured) = 0.102 W/kg</p> <div data-bbox="220 1310 1374 1765"> </div> <p>0 dB = 0.102 W/kg = -9.91 dBW/kg</p>	

FLAT(VIOCE)	Towards phantom
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz;Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TP voice M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.280 W/kg</p> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TP voice M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 15.18 V/m; Power Drift = 0.06 dB            Peak SAR (extrapolated) = 0.377 W/kg  <b>SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.205 W/kg</b>            Maximum value of SAR (measured) = 0.298 W/kg</p> <div data-bbox="220 1310 1374 1765"> </div> <p>0 dB = 0.298 W/kg = -5.26 dBW/kg</p>	

FLAT(VIOCE )	Towards ground
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz;Duty Cycle: 1:1.95434            Medium parameters used (interpolated): f = 836.6 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TG voice M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.346 W/kg</p> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TG voice M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 19.03 V/m; Power Drift = -0.04 dB            Peak SAR (extrapolated) = 0.437 W/kg  <b>SAR(1 g) = 0.336 W/kg; SAR(10 g) = 0.253 W/kg</b>            Maximum value of SAR (measured) = 0.352 W/kg</p> <div data-bbox="220 1310 1374 1765"> </div> <p>0 dB = 0.352 W/kg = -4.53 dBW/kg</p>	

FLAT(DATA)	Towards phantom
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz;Duty Cycle: 1:1.95434            Medium parameters used (interpolated): f = 836.6 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TP DATA M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.358 W/kg</p> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TP DATA M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 13.87 V/m; Power Drift = -0.07 dB            Peak SAR (extrapolated) = 0.498 W/kg  <b>SAR(1 g) = 0.330 W/kg; SAR(10 g) = 0.223 W/kg</b>            Maximum value of SAR (measured) = 0.351 W/kg</p>	
 <p>0 dB = 0.351 W/kg = -4.55 dBW/kg</p>	

FLAT(DATA)	Towards ground
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz;Duty Cycle: 1:1.95434            Medium parameters used (interpolated): f = 836.6 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TG DATA M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.343 W/kg</p> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TG DATA M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 18.96 V/m; Power Drift = 0.00 dB            Peak SAR (extrapolated) = 0.435 W/kg  <b>SAR(1 g) = 0.335 W/kg; SAR(10 g) = 0.252 W/kg</b>            Maximum value of SAR (measured) = 0.351 W/kg</p> <div data-bbox="220 1310 1374 1765"> </div> <p>0 dB = 0.351 W/kg = -4.55 dBW/kg</p>	

FLAT	EDGE2
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 3mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band5 HOT/wcdma band5 10mm M edge 2/Area Scan (6x11x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.0137 W/kg</p> <p><b>Flat-Section MSL wcdma band5 HOT/wcdma band5 10mm M edge 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 2.266 V/m; Power Drift = 0.08 dB            Peak SAR (extrapolated) = 0.0230 W/kg  <b>SAR(1 g) = 0.011 W/kg; SAR(10 g) = 0.00633 W/kg</b>            Maximum value of SAR (measured) = 0.0141 W/kg</p>  <p>0 dB = 0.0141 W/kg = -18.51 dBW/kg</p>	

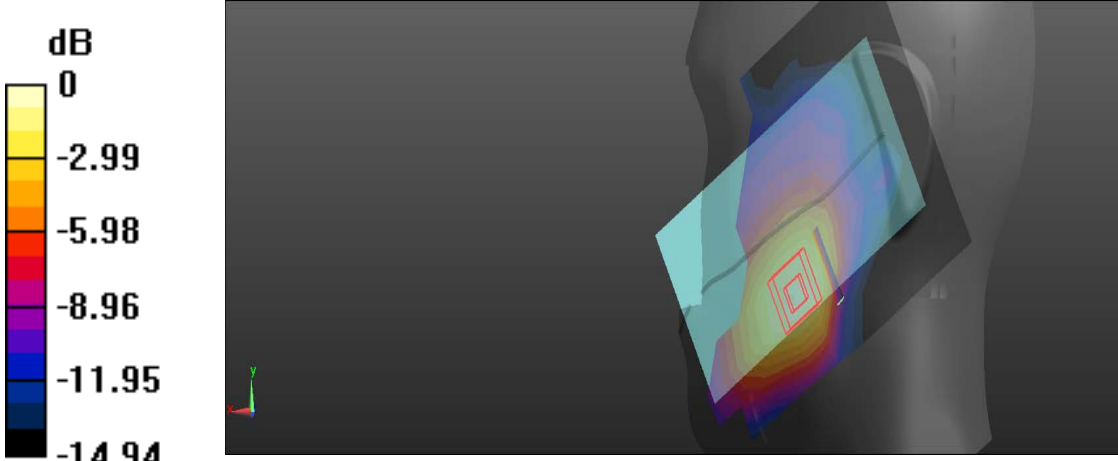


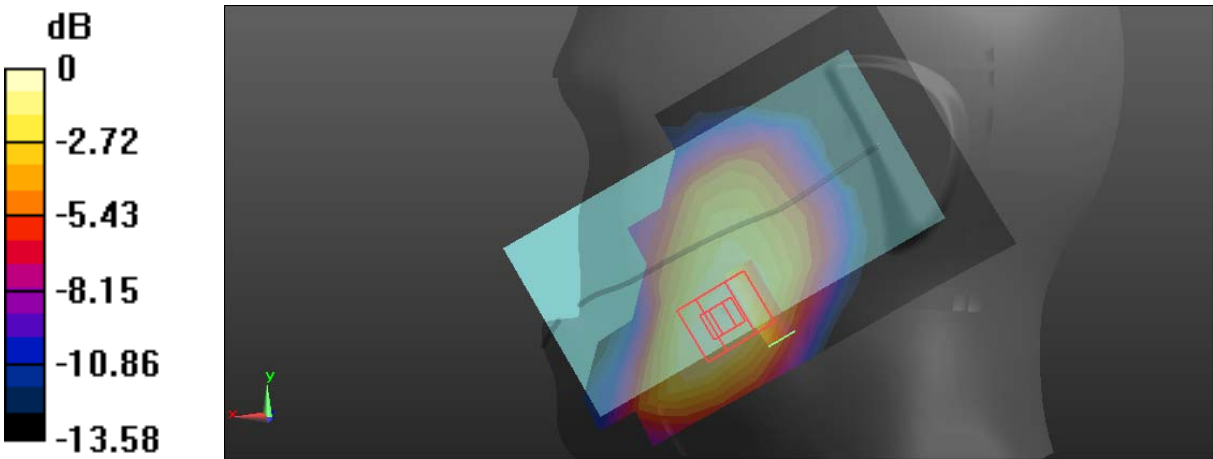


FLAT	EDGE3
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434            Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 3mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band5 HOT/wcdma band5 10mm M edge 3/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.125 W/kg</p> <p><b>Flat-Section MSL wcdma band5 HOT/wcdma band5 10mm M edge 3/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 10.61 V/m; Power Drift = -0.00 dB            Peak SAR (extrapolated) = 0.163 W/kg  <b>SAR(1 g) = 0.114 W/kg; SAR(10 g) = 0.079 W/kg</b>            Maximum value of SAR (measured) = 0.131 W/kg</p> <div data-bbox="220 1310 1374 1765"> </div> <p>0 dB = 0.131 W/kg = -8.83 dBW/kg</p>	

FLAT	EDGE4
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz;Duty Cycle: 1:1.95434            Medium parameters used (interpolated): f = 836.6 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 3mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band5 HOT/wcdma band5 10mm M edge 4/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.123 W/kg</p> <p><b>Flat-Section MSL wcdma band5 HOT/wcdma band5 10mm M edge 4/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 10.66 V/m; Power Drift = -0.17 dB            Peak SAR (extrapolated) = 0.154 W/kg  <b>SAR(1 g) = 0.107 W/kg; SAR(10 g) = 0.074 W/kg</b></p> <div data-bbox="220 1310 1374 1765"> </div> <p>0 dB = 0.123 W/kg = -9.10 dBW/kg</p>	

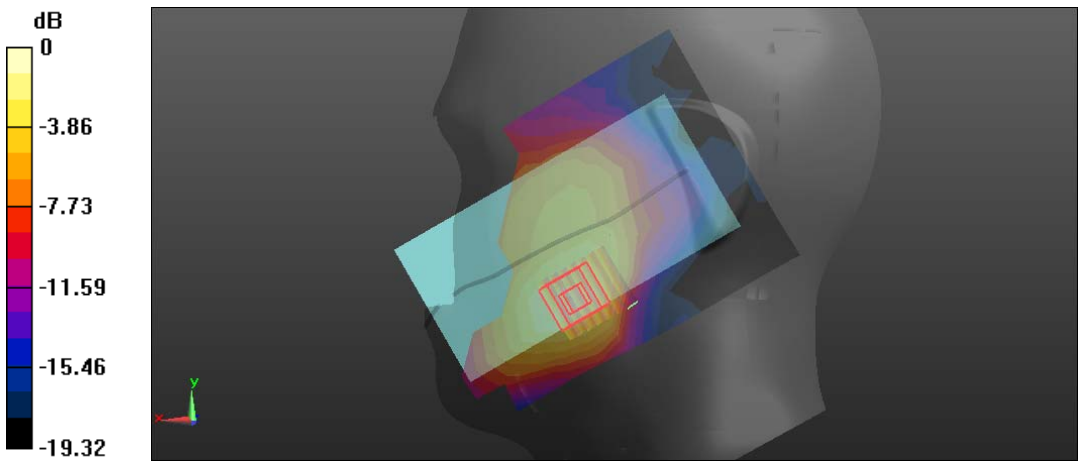
**LTE (Band 2 20BW-1RB-Low/Head)**

Left Side	Cheek
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL touch M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.441 W/kg</p> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 4.549 V/m; Power Drift = -0.00 dB Peak SAR (extrapolated) = 0.745 W/kg <b>SAR(1 g) = 0.443 W/kg; SAR(10 g) = 0.261 W/kg</b> Maximum value of SAR (measured) = 0.484 W/kg</p>	
 <p>0 dB = 0.484 W/kg = -3.15 dBW/kg</p>	

Left Side	Tilt
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.115 W/kg</p> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 8.223 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 0.163 W/kg <b>SAR(1 g) = 0.107 W/kg; SAR(10 g) = 0.067 W/kg</b> Maximum value of SAR (measured) = 0.116 W/kg</p>	
 <p>0 dB = 0.116 W/kg = -9.36 dBW/kg</p>	

Right Side	Cheek
<p>Communication System: UID 0, LTE band 02 (0); Frequency: 1860 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 1860</math> MHz; <math>\sigma = 1.43</math> S/m; <math>\epsilon_r = 39.827</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Left Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL touch L/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.334 W/kg</p> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL touch L/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 3.051 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.549 W/kg <b>SAR(1 g) = 0.327 W/kg; SAR(10 g) = 0.192 W/kg</b> Maximum value of SAR (measured) = 0.355 W/kg</p> <div data-bbox="252 1339 1337 1803"> </div> <p>0 dB = 0.355 W/kg = -4.50 dBW/kg</p>	

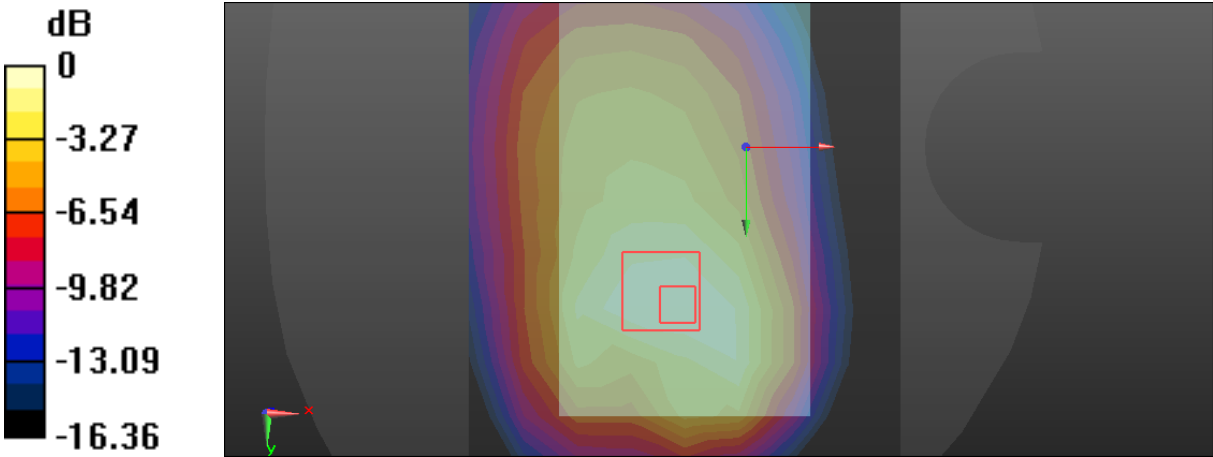
Right Side	Cheek
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band2 Right/LTE band2 20MHz 1RB Low HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.183 W/kg</p> <p><b>Head-Section HSL LTE band2 Right/LTE band2 20MHz 1RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 4.262 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 0.298 W/kg <b>SAR(1 g) = 0.189 W/kg; SAR(10 g) = 0.119 W/kg</b> Maximum value of SAR (measured) = 0.202 W/kg</p>	
<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -2.41 -4.82 -7.22 -9.63 -12.04</p> </div> <div> <p>0 dB = 0.202 W/kg = -6.95 dBW/kg</p> </div> </div>	

Right Side	Cheek
Communication System: UID 0, LTE band 02 (0); Frequency: 1900 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1900 \text{ MHz}$ ; $\sigma = 1.45 \text{ S/m}$ ; $\epsilon_r = 39.75$ ; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Left Section	
DASY5 Configuration:	
<ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL touch H/Area Scan (9x13x1):</b> Measurement grid: $dx=15\text{mm}$ , $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.345 W/kg	
<b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL touch H/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: $dx=5\text{mm}$ , $dy=5\text{mm}$ , $dz=5\text{mm}$ Reference Value = 3.754 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 0.556 W/kg <b>SAR(1 g) = 0.333 W/kg; SAR(10 g) = 0.196 W/kg</b> Maximum value of SAR (measured) = 0.363 W/kg	
 <p>0 dB = 0.363 W/kg = -4.40 dBW/kg</p>	



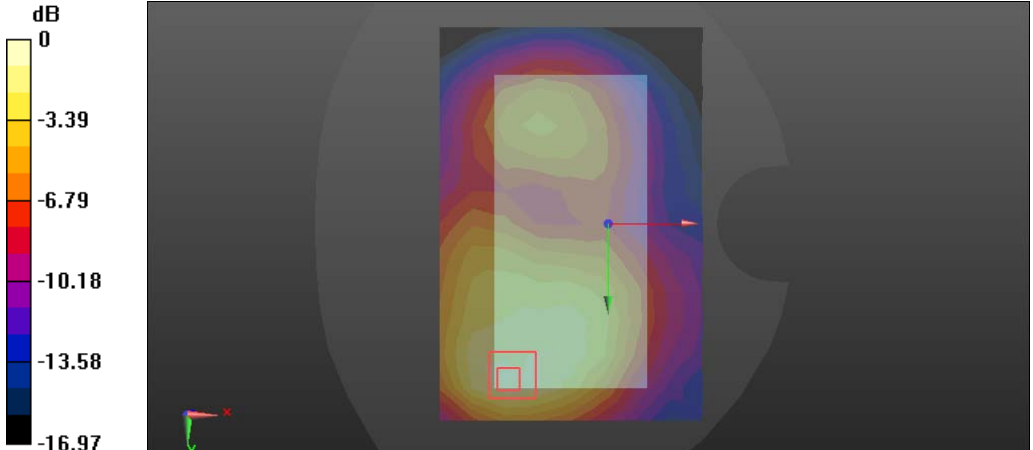
Right Side	Tilt
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band2 Right/LTE band2 20MHz 1RB Low HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0827 W/kg</p> <p><b>Head-Section HSL LTE band2 Right/LTE band2 20MHz 1RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 6.792 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 0.117 W/kg <b>SAR(1 g) = 0.075 W/kg; SAR(10 g) = 0.050 W/kg</b> Maximum value of SAR (measured) = 0.0816 W/kg</p>	
<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -2.58 -5.16 -7.74 -10.32 -12.90</p> </div> <div> <p>0 dB = 0.0816 W/kg = -10.88 dBW/kg</p> </div> </div>	

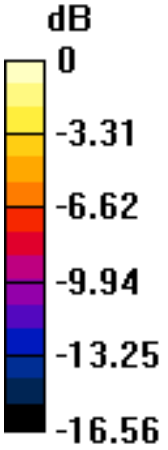
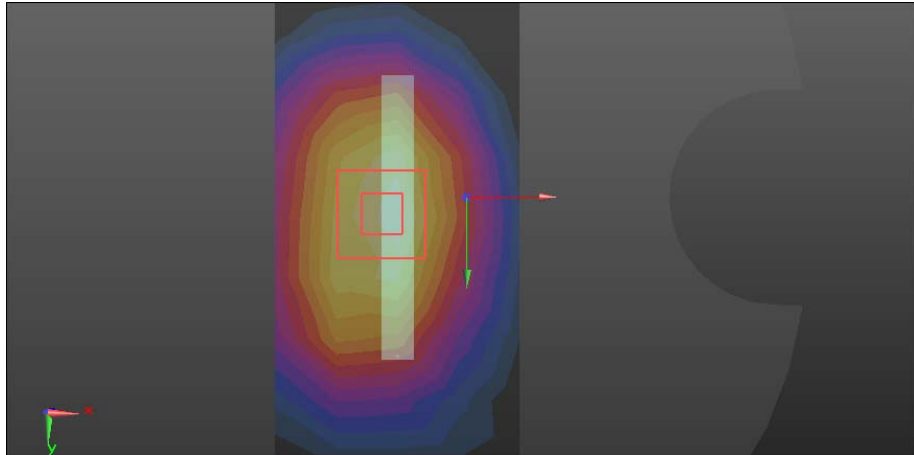
**LTE (Band 2 20BW-1RB-Low/Flat)**

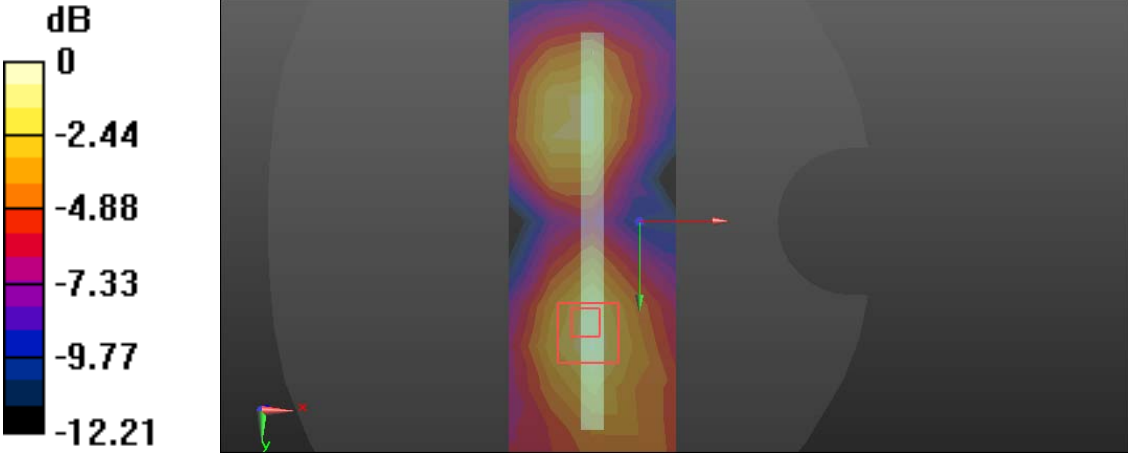
FLAT	Towards phantom
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band2 TP/LTE band2 TP 20MHz 1RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.461 W/kg</p> <p><b>Flat-Section MSL LTE band2 TP/LTE band2 TP 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 9.559 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 0.854 W/kg <b>SAR(1 g) = 0.472 W/kg; SAR(10 g) = 0.275 W/kg</b> Maximum value of SAR (measured) = 0.510 W/kg</p>	
 <p>0 dB = 0.510 W/kg = -2.92 dBW/kg</p>	

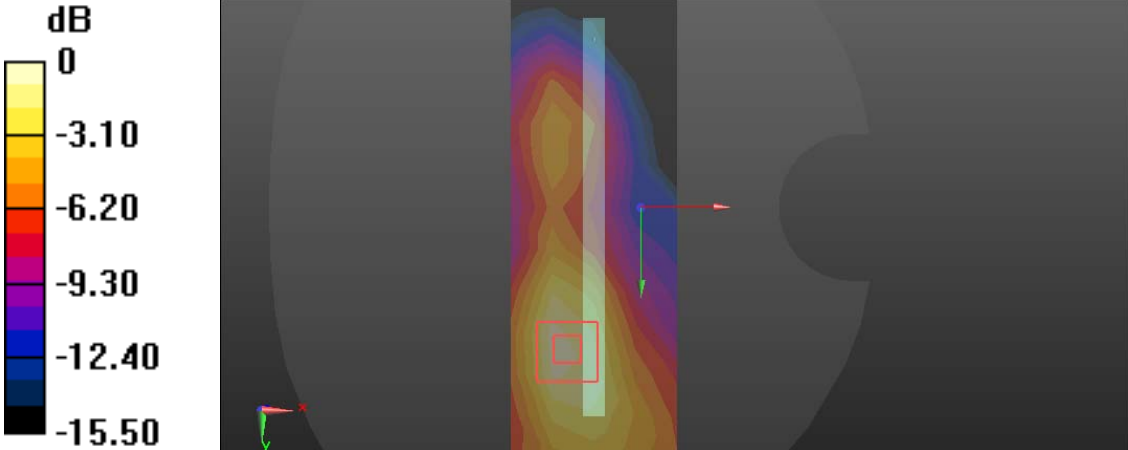
FLAT	Towards ground
<p>Communication System: UID 0, LTE band 02 (0); Frequency: 1860 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1860 MHz; <math>\sigma = 1.543</math> S/m; <math>\epsilon_r = 51.207</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB L 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.746 W/kg</p> <p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB L 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 11.78 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 1.22 W/kg <b>SAR(1 g) = 0.708 W/kg; SAR(10 g) = 0.412 W/kg</b> Maximum value of SAR (measured) = 0.772 W/kg</p> <div data-bbox="279 1305 1311 1760"> <p>0 dB = 0.772 W/kg = -1.12 dBW/kg</p> </div>	

FLAT	Towards ground
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 1880 \text{ MHz}</math>; <math>\sigma = 1.57 \text{ S/m}</math>; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000 \text{ kg/m}^3</math> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math> Maximum value of SAR (measured) = 0.869 W/kg</p> <p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math> Reference Value = 6.879 V/m; Power Drift = 0.22 dB Peak SAR (extrapolated) = 1.50 W/kg <b>SAR(1 g) = 0.795 W/kg; SAR(10 g) = 0.434 W/kg</b> Maximum value of SAR (measured) = 0.881 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -3.53 -7.06 -10.60 -14.13 -17.66</p> </div> <div style="flex-grow: 1;"> </div> </div> <p style="text-align: center;">0 dB = 0.881 W/kg = -0.55 dBW/kg</p>	

FLAT	Towards ground
<p>Communication System: UID 0, LTE band 02 (0); Frequency: 1900 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 1900</math> MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.05</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB H 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.807 W/kg</p>	
<p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB H 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 9.316 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 1.33 W/kg <b>SAR(1 g) = 0.777 W/kg; SAR(10 g) = 0.450 W/kg</b> Maximum value of SAR (measured) = 0.854 W/kg</p>	
 <p>0 dB = 0.854 W/kg = -0.69 dBW/kg</p>	

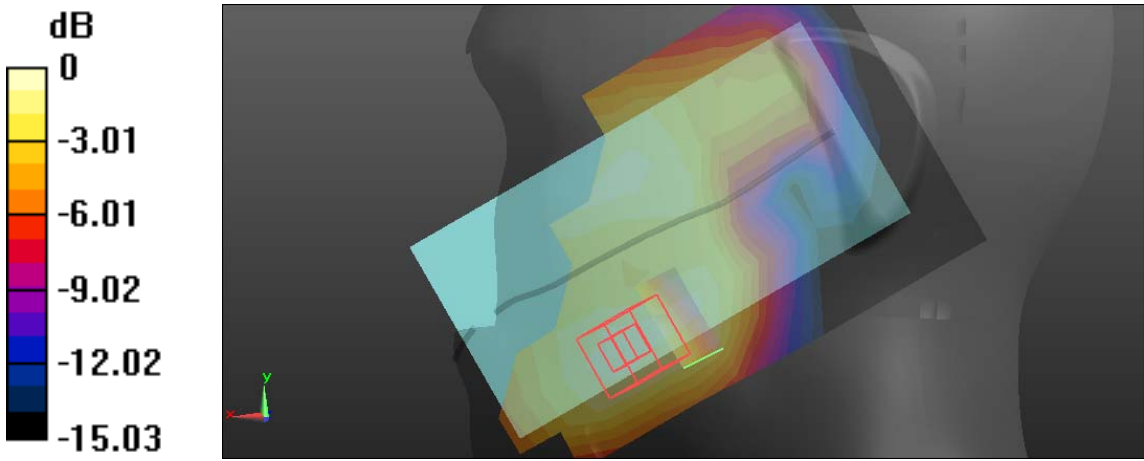
FLAT	EDGE2
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 1880 \text{ MHz}</math>; <math>\sigma = 1.57 \text{ S/m}</math>; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000 \text{ kg/m}^3</math> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band2 HOT/LTE band2 20MHz 1RB 10mm M edge 2/Area Scan (6x11x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math> Maximum value of SAR (measured) = 0.365 W/kg</p> <p><b>Flat-Section MSL LTE band2 HOT/LTE band2 20MHz 1RB 10mm M edge 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math> Reference Value = 12.53 V/m; Power Drift = 0.13 dB Peak SAR (extrapolated) = 0.665 W/kg <b>SAR(1 g) = 0.378 W/kg; SAR(10 g) = 0.213 W/kg</b> Maximum value of SAR (measured) = 0.415 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0 -3.31 -6.62 -9.94 -13.25 -16.56</p> </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 0.415 W/kg = -3.82 dBW/kg</p>	

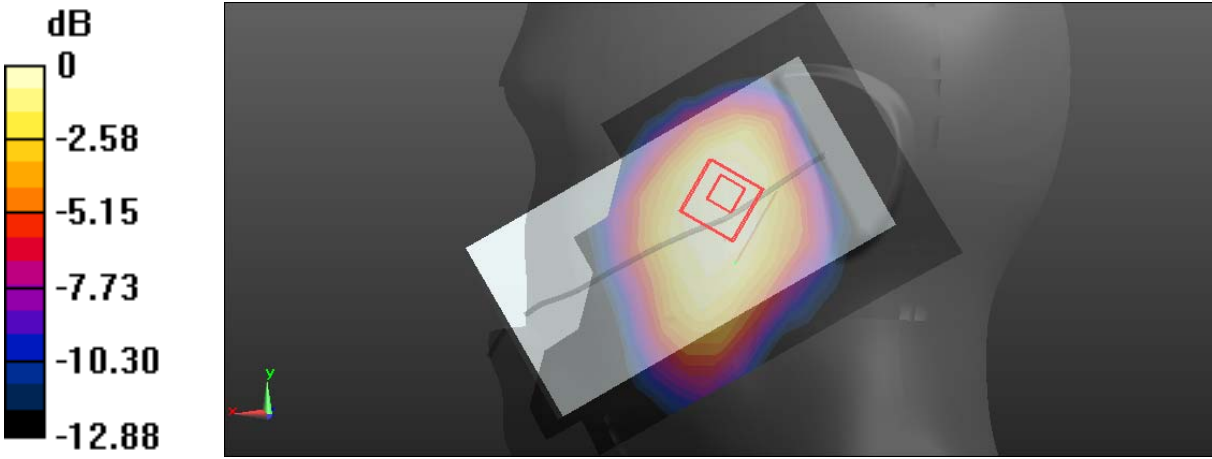
FLAT	EDGE3
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 1880 \text{ MHz}</math>; <math>\sigma = 1.57 \text{ S/m}</math>; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000 \text{ kg/m}^3</math> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band2 HOT/LTE band2 20MHz 1RB 10mmM edge 3/Area Scan (6x15x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math> Maximum value of SAR (measured) = 0.0436 W/kg</p> <p><b>Flat-Section MSL LTE band2 HOT/LTE band2 20MHz 1RB 10mmM edge 3/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math> Reference Value = 2.837 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.0710 W/kg <b>SAR(1 g) = 0.043 W/kg; SAR(10 g) = 0.028 W/kg</b> Maximum value of SAR (measured) = 0.0457 W/kg</p>	
 <p>0 dB = 0.0457 W/kg = -13.40 dBW/kg</p>	

FLAT	EDGE4
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band2 HOT/LTE band2 20MHz 1RB 10mmM edge 4/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.322 W/kg</p> <p><b>Flat-Section MSL LTE band2 HOT/LTE band2 20MHz 1RB 10mmM edge 4/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 10.50 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 0.511 W/kg <b>SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.177 W/kg</b> Maximum value of SAR (measured) = 0.327 W/kg</p>	
 <p>0 dB = 0.327 W/kg = -4.85 dBW/kg</p>	

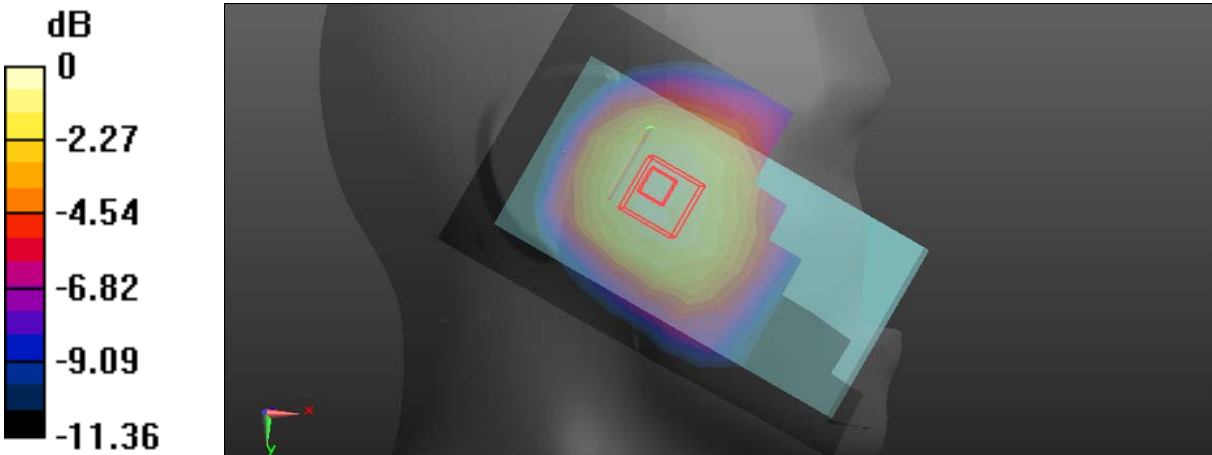


**LTE (Band 2 20BW-50RB-Low/Head)**

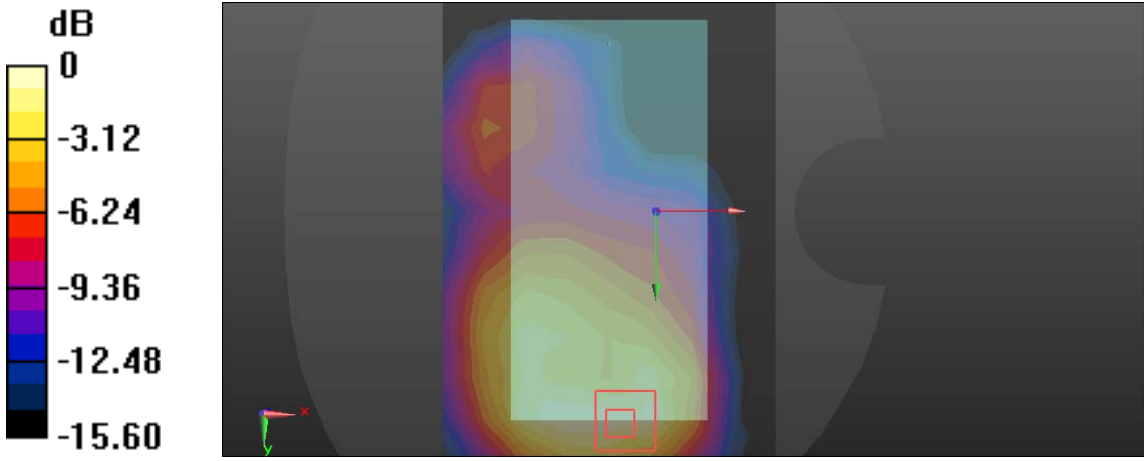
Left Side	Cheek
Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 1880 \text{ MHz}$ ; $\sigma = 1.45 \text{ S/m}$ ; $\epsilon_r = 39.74$ ; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Left Section	
DASY5 Configuration:	
<ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 50RB Low HSL touch M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm                      Maximum value of SAR (measured) = 0.386 W/kg</p> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 50RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm                      Reference Value = 3.705 V/m; Power Drift = 0.09 dB                      Peak SAR (extrapolated) = 0.670 W/kg  <b>SAR(1 g) = 0.397 W/kg; SAR(10 g) = 0.233 W/kg</b>                      Maximum value of SAR (measured) = 0.435 W/kg</p>	
 <p>0 dB = 0.435 W/kg = -3.62 dBW/kg</p>	

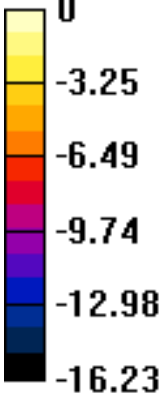
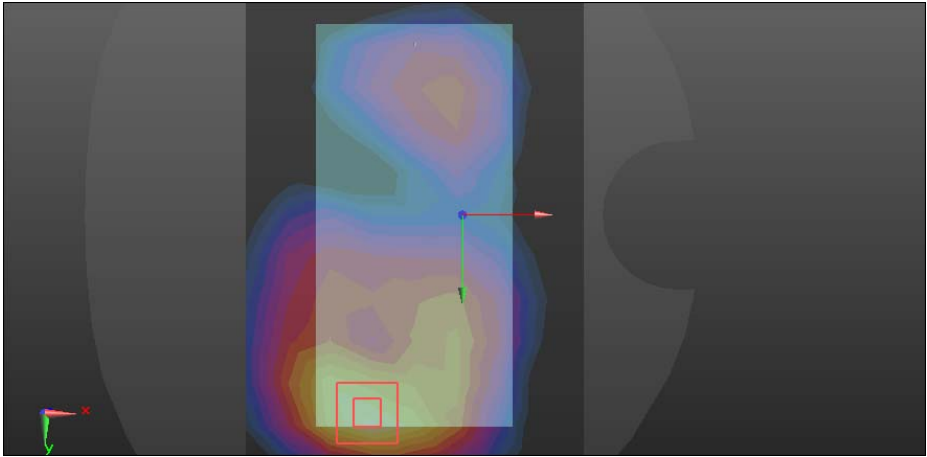
Left Side	Tilt
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 50RB Low HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0977 W/kg</p> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 50RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 7.476 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 0.176 W/kg <b>SAR(1 g) = 0.096 W/kg; SAR(10 g) = 0.058 W/kg</b> Maximum value of SAR (measured) = 0.114 W/kg</p>	
 <p>0 dB = 0.114 W/kg = -9.43 dBW/kg</p>	

Right Side	Cheek
Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; $\sigma = 1.45$ S/m; $\epsilon_r = 39.74$ ; $\rho = 1000$ kg/m <sup>3</sup> Phantom section: Right Section	
DASY5 Configuration:	
<ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band2 Right/LTE band2 20MHz 50RB Low HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm                      Maximum value of SAR (measured) = 0.147 W/kg</p> <p><b>Head-Section HSL LTE band2 Right/LTE band2 20MHz 50RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm                      Reference Value = 3.878 V/m; Power Drift = 0.02 dB                      Peak SAR (extrapolated) = 0.221 W/kg  <b>SAR(1 g) = 0.147 W/kg; SAR(10 g) = 0.094 W/kg</b>                      Maximum value of SAR (measured) = 0.158 W/kg</p>	
<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -2.23 -4.47 -6.70 -8.94 -11.17</p> </div> <div> <p>0 dB = 0.158 W/kg = -8.01 dBW/kg</p> </div> </div>	

Right Side	Tilt
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band2 Right/LTE band2 20MHz 50RB Low HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0714 W/kg</p> <p><b>Head-Section HSL LTE band2 Right/LTE band2 20MHz 50RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 6.151 V/m; Power Drift = -0.15 dB Peak SAR (extrapolated) = 0.109 W/kg <b>SAR(1 g) = 0.067 W/kg; SAR(10 g) = 0.042 W/kg</b> Maximum value of SAR (measured) = 0.0722 W/kg</p>	
 <p>0 dB = 0.0722 W/kg = -11.41 dBW/kg</p>	

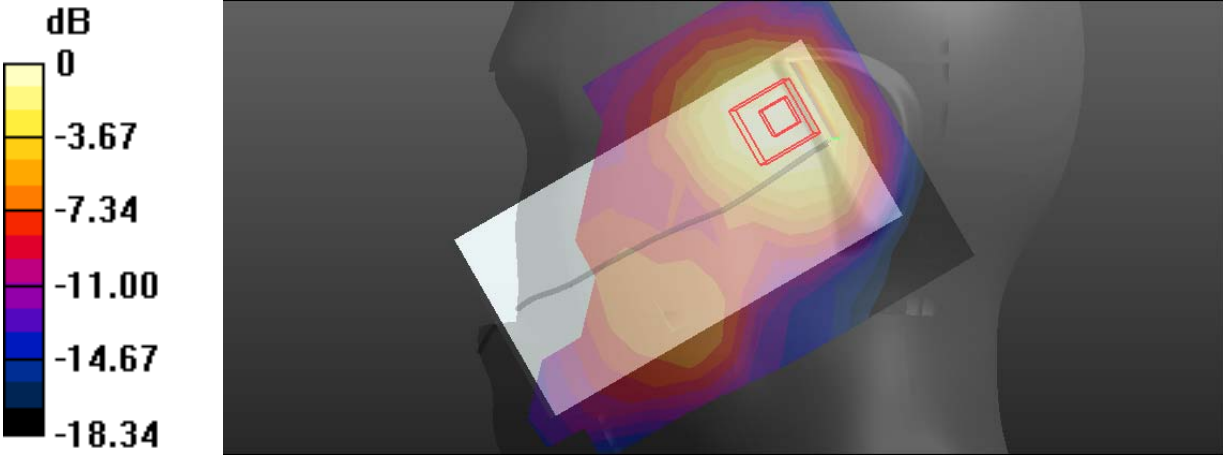
**LTE (Band 2 20BW-50RB-Low/Flat)**

FLAT	Towards phantom
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band2 TP/LTE band2 TP 20MHz 50RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.371 W/kg</p> <p><b>Flat-Section MSL LTE band2 TP/LTE band2 TP 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 8.207 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.701 W/kg <b>SAR(1 g) = 0.382 W/kg; SAR(10 g) = 0.224 W/kg</b> Maximum value of SAR (measured) = 0.413 W/kg</p>	
 <p>0 dB = 0.413 W/kg = -3.84 dBW/kg</p>	

FLAT	Towards ground
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 1880 \text{ MHz}</math>; <math>\sigma = 1.57 \text{ S/m}</math>; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000 \text{ kg/m}^3</math> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 50RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math> Maximum value of SAR (measured) = 0.706 W/kg</p> <p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math> Reference Value = 6.182 V/m; Power Drift = -0.13 dB Peak SAR (extrapolated) = 1.22 W/kg <b>SAR(1 g) = 0.646 W/kg; SAR(10 g) = 0.352 W/kg</b> Maximum value of SAR (measured) = 0.712 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0 -3.25 -6.49 -9.74 -12.98 -16.23</p> </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 0.712 W/kg = -1.48 dBW/kg</p>	

**LTE (Band 4 20BW-1RB-Low/Head)**

Left Side	Cheek
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Head-Section HSL LTE band4 Left/LTE band4 20MHz 1RB Low HSL touch M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.320 W/kg <b>Head-Section HSL LTE band4 Left/LTE band4 20MHz 1RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.913 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 0.546 W/kg <b>SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.212 W/kg</b> Maximum value of SAR (measured) = 0.375 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -3.40 -6.80 -10.19 -13.59 -16.99</p> </div> <div> <p>0 dB = 0.375 W/kg = -4.26 dBW/kg</p> </div> </div>	

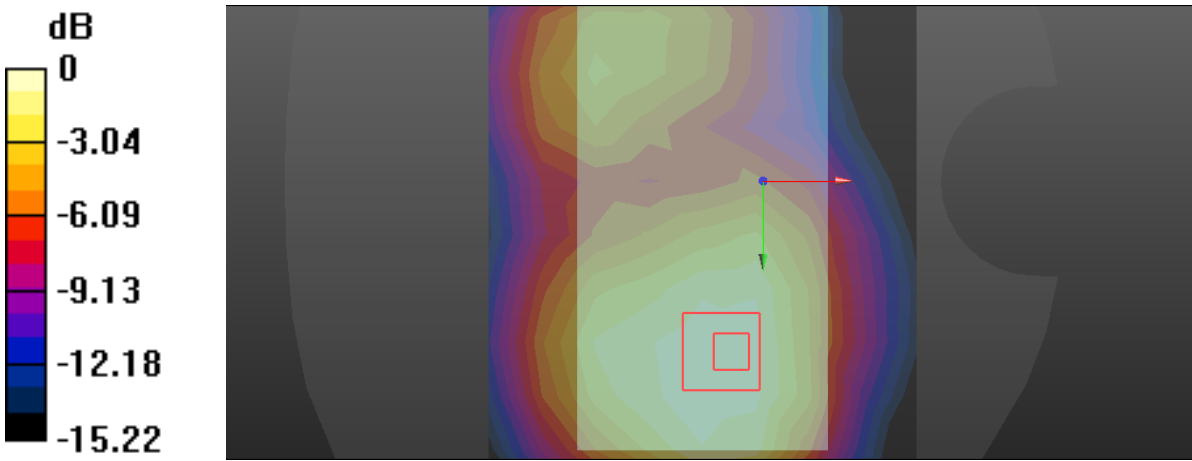
Left Side	Tilt
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band4 Left/LTE band4 20MHz 1RB Low HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.181 W/kg</p> <p><b>Head-Section HSL LTE band4 Left/LTE band4 20MHz 1RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 10.29 V/m; Power Drift = -0.11 dB Peak SAR (extrapolated) = 0.273 W/kg <b>SAR(1 g) = 0.169 W/kg; SAR(10 g) = 0.105 W/kg</b> Maximum value of SAR (measured) = 0.186 W/kg</p>	
 <p>0 dB = 0.186 W/kg = -7.30 dBW/kg</p>	



Right Side	Cheek
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1732.5 MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band4 Right/LTE band4 20MHz 1RB Low HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.162 W/kg</p> <p><b>Head-Section HSL LTE band4 Right/LTE band4 20MHz 1RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 6.115 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.266 W/kg <b>SAR(1 g) = 0.170 W/kg; SAR(10 g) = 0.108 W/kg</b> Maximum value of SAR (measured) = 0.187 W/kg</p> <div data-bbox="183 1310 1412 1758"> </div> <p>0 dB = 0.187 W/kg = -7.28 dBW/kg</p>	

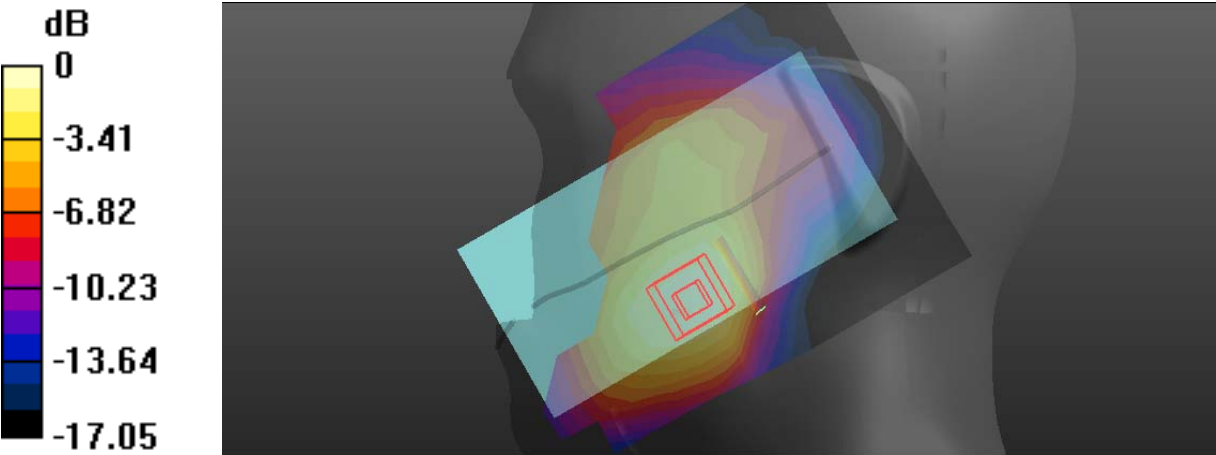
Right Side	Tilt
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Head-Section HSL LTE band4 Right/LTE band4 20MHz 1RB Low HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.146 W/kg</p>	
<p><b>Head-Section HSL LTE band4 Right/LTE band4 20MHz 1RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 9.733 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 0.217 W/kg <b>SAR(1 g) = 0.138 W/kg; SAR(10 g) = 0.085 W/kg</b> Maximum value of SAR (measured) = 0.149 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -2.87 -5.74 -8.61 -11.48 -14.35</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.149 W/kg = -8.27 dBW/kg</p>	

**LTE (Band 4 20BW-1RB-Low/Flat)**

FLAT	Towards phantom
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup></p>	
<p>Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Flat-Section MSL LTE band4 TP/LTE band4 TP 20MHz 1RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.341 W/kg</p>	
<p><b>Flat-Section MSL LTE band4 TP/LTE band4 TP 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 7.577 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 0.537 W/kg <b>SAR(1 g) = 0.340 W/kg; SAR(10 g) = 0.221 W/kg</b> Maximum value of SAR (measured) = 0.367 W/kg</p>	
 <p>0 dB = 0.367 W/kg = -4.35 dBW/kg</p>	

FLAT	Towards ground
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1732.5 MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band4 TG/LTE band4 TG 20MHz 1RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.211 W/kg</p> <p><b>Flat-Section MSL LTE band4 TG/LTE band4 TG 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 7.712 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 0.317 W/kg <b>SAR(1 g) = 0.200 W/kg; SAR(10 g) = 0.124 W/kg</b> Maximum value of SAR (measured) = 0.219 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -3.02 -6.04 -9.07 -12.09 -15.11</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.219 W/kg = -6.60 dBW/kg</p>	

**LTE (Band 4 20BW-50RB-Low/Head)**

Left Side	Cheek
Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1732.5 MHz; $\sigma = 1.304$ S/m; $\epsilon_r = 40.408$ ; $\rho = 1000$ kg/m <sup>3</sup> Phantom section: Left Section	
DASY5 Configuration:	
<ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band4 Left/LTE band4 20MHz 50RB Low HSL touch M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm                      Maximum value of SAR (measured) = 0.267 W/kg</p> <p><b>Head-Section HSL LTE band4 Left/LTE band4 20MHz 50RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm                      Reference Value = 5.292 V/m; Power Drift = 0.03 dB                      Peak SAR (extrapolated) = 0.447 W/kg  <b>SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.172 W/kg</b>                      Maximum value of SAR (measured) = 0.305 W/kg</p>	
 <p>0 dB = 0.305 W/kg = -5.16 dBW/kg</p>	

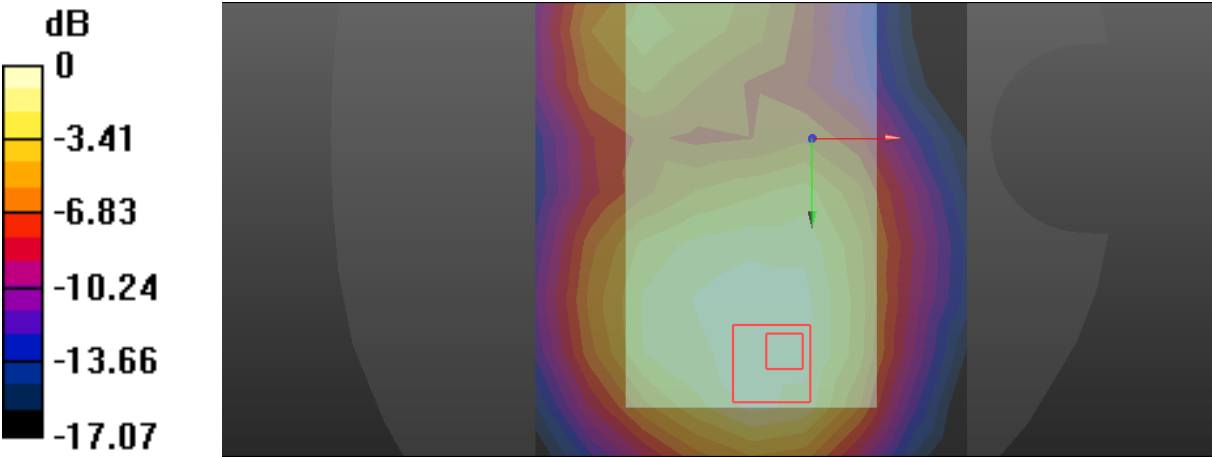
Left Side	Tilt
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band4 Left/LTE band4 20MHz 50RB Low HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.142 W/kg</p> <p><b>Head-Section HSL LTE band4 Left/LTE band4 20MHz 50RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 8.784 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.204 W/kg <b>SAR(1 g) = 0.136 W/kg; SAR(10 g) = 0.085 W/kg</b> Maximum value of SAR (measured) = 0.147 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -3.62 -7.24 -10.85 -14.47 -18.09</p> </div> <div style="flex-grow: 1;"> </div> </div> <p style="text-align: center;">0 dB = 0.147 W/kg = -8.33 dBW/kg</p>	

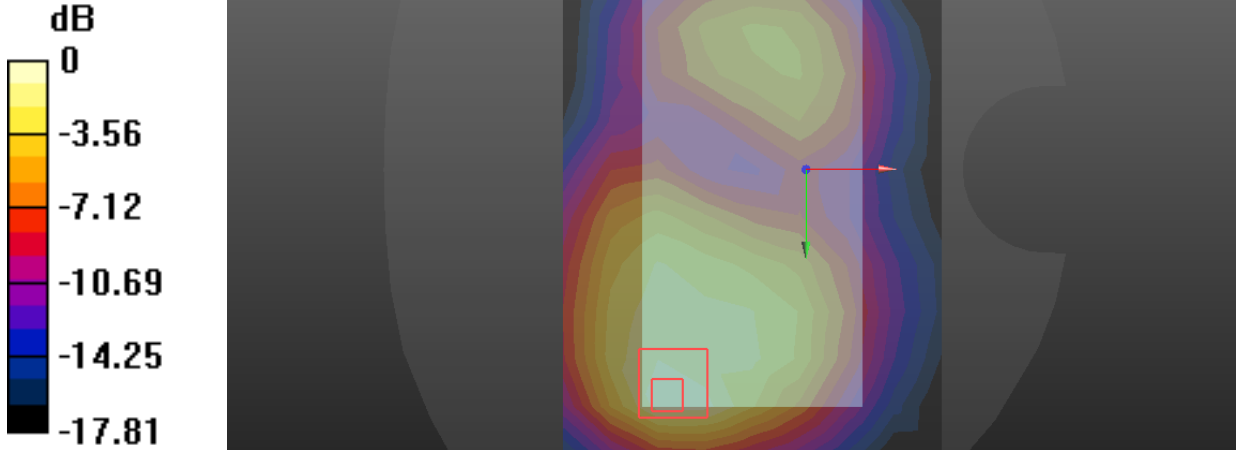
Right Side	Cheek
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1732.5 MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup></p>	
<p>Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Head-Section HSL LTE band4 Right/LTE band4 20MHz 50RB Low HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.143 W/kg</p>	
<p><b>Head-Section HSL LTE band4 Right/LTE band4 20MHz 50RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.585 V/m; Power Drift = -0.06 dB Peak SAR (extrapolated) = 0.231 W/kg <b>SAR(1 g) = 0.148 W/kg; SAR(10 g) = 0.095 W/kg</b> Maximum value of SAR (measured) = 0.159 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -2.26 -4.52 -6.78 -9.04 -11.30</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.159 W/kg = -7.99 dBW/kg</p>	

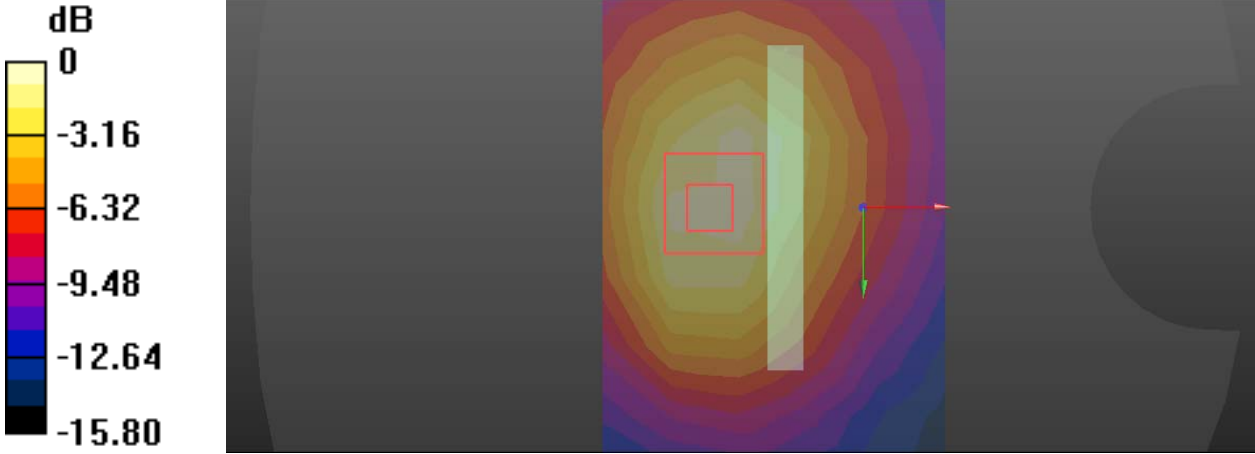
Right Side	Tilt
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1                      Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>                      Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band4 Right/LTE band4 20MHz 50RB Low HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm                      Maximum value of SAR (measured) = 0.124 W/kg</p> <p><b>Head-Section HSL LTE band4 Right/LTE band4 20MHz 50RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm                      Reference Value = 8.944 V/m; Power Drift = 0.07 dB                      Peak SAR (extrapolated) = 0.186 W/kg  <b>SAR(1 g) = 0.118 W/kg; SAR(10 g) = 0.072 W/kg</b>                      Maximum value of SAR (measured) = 0.128 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -2.85 -5.69 -8.54 -11.38 -14.23</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.128 W/kg = -8.93 dBW/kg</p>	

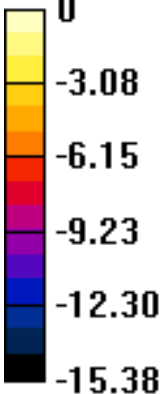
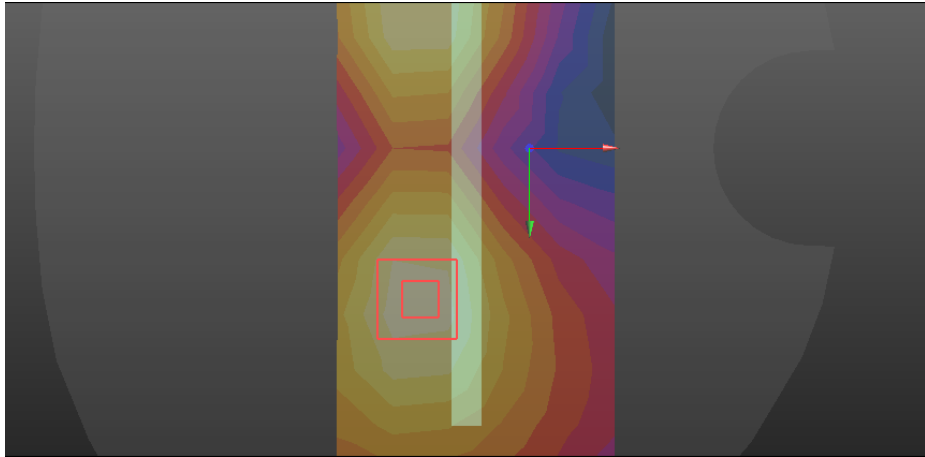


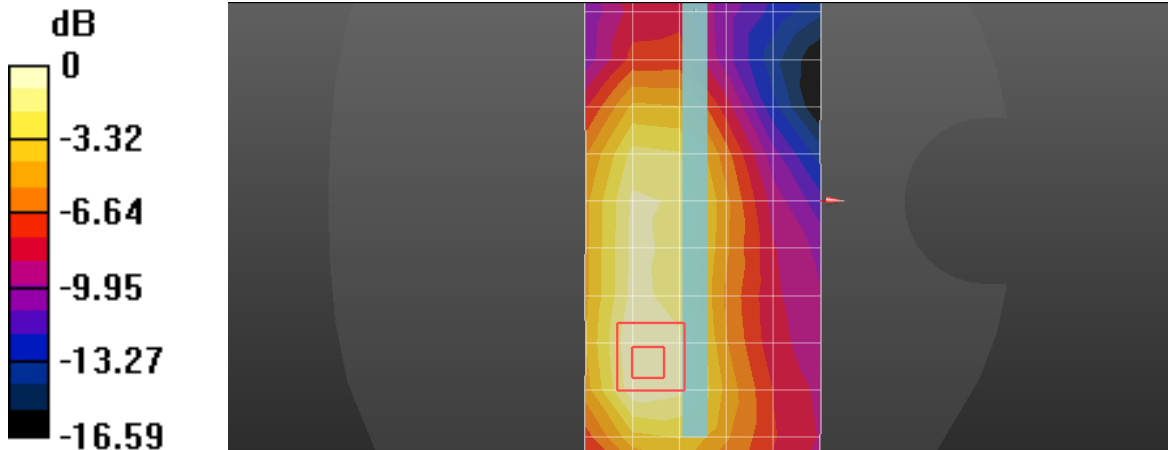
**LTE (Band 4 20BW-50RB-Low/Flat)**

FLAT	Towards phantom
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup></p>	
<p>Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Flat-Section MSL LTE band4 TP/LTE band4 TP 20MHz 50RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm</p>	
<p>Maximum value of SAR (measured) = 0.267 W/kg</p>	
<p><b>Flat-Section MSL LTE band4 TP/LTE band4 TP 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm</p>	
<p>Reference Value = 6.807 V/m; Power Drift = 0.00 dB</p>	
<p>Peak SAR (extrapolated) = 0.446 W/kg</p>	
<p><b>SAR(1 g) = 0.272 W/kg; SAR(10 g) = 0.169 W/kg</b></p>	
<p>Maximum value of SAR (measured) = 0.296 W/kg</p>	
	
<p>0 dB = 0.296 W/kg = -5.29 dBW/kg</p>	

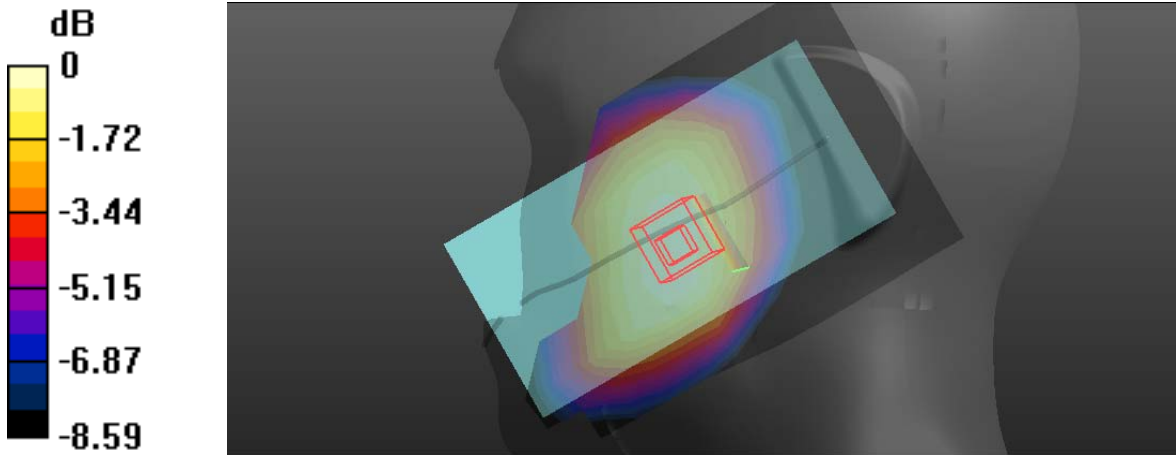
FLAT	Towards ground
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Flat-Section MSL LTE band4 TG/LTE band4 TG 20MHz 50RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.410 W/kg <b>Flat-Section MSL LTE band4 TG/LTE band4 TG 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.211 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 0.731 W/kg <b>SAR(1 g) = 0.419 W/kg; SAR(10 g) = 0.236 W/kg</b> Maximum value of SAR (measured) = 0.467 W/kg</p>	
 <p>0 dB = 0.467 W/kg = -3.31 dBW/kg</p>	

FLAT	EDGE2
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1732.5 MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band4 HOT/LTE band4 20MHz 50RB 10mm M edge 2/Area Scan (6x11x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.312 W/kg</p> <p><b>Flat-Section MSL LTE band4 HOT/LTE band4 20MHz 50RB 10mm M edge 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 12.16 V/m; Power Drift = 0.10 dB Peak SAR (extrapolated) = 0.522 W/kg <b>SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.181 W/kg</b> Maximum value of SAR (measured) = 0.342 W/kg</p>	
 <p>0 dB = 0.342 W/kg = -4.66 dBW/kg</p>	

FLAT	EDGE3
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band4 HOT/LTE band4 20MHz 50RB 10mmM edge 3/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.113 W/kg</p> <p><b>Flat-Section MSL LTE band4 HOT/LTE band4 20MHz 50RB 10mmM edge 3/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 3.986 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 0.186 W/kg <b>SAR(1 g) = 0.116 W/kg; SAR(10 g) = 0.070 W/kg</b> Maximum value of SAR (measured) = 0.127 W/kg</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0 -3.08 -6.15 -9.23 -12.30 -15.38</p> </div> <div>  </div> </div> <p style="text-align: center;">0 dB = 0.127 W/kg = -8.96 dBW/kg</p>	

FLAT	EDGE4
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1732.5 MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup></p>	
<p>Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Flat-Section MSL LTE band4 HOT/LTE band4 20MHz 50RB 10mmM edge 4/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm</p>	
<p>Maximum value of SAR (measured) = 0.147 W/kg</p>	
<p><b>Flat-Section MSL LTE band4 HOT/LTE band4 20MHz 50RB 10mmM edge 4/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm</p>	
<p>Reference Value = 7.986 V/m; Power Drift = 0.09 dB</p>	
<p>Peak SAR (extrapolated) = 0.259 W/kg</p>	
<p><b>SAR(1 g) = 0.153 W/kg; SAR(10 g) = 0.088 W/kg</b></p>	
<p>Maximum value of SAR (measured) = 0.168 W/kg</p>	
 <p>0 dB = 0.147 W/kg = -8.33 dBW/kg</p>	

**LTE (Band 5 20BW-1RB-Low/Head)**

Left Side	Cheek
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.5 MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.479</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Left HSL LTE band5/LTE band5 20BW 1RB LOW HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.108 W/kg</p> <p><b>Head-Section Left HSL LTE band5/LTE band5 20BW 1RB LOW HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 3.005 V/m; Power Drift = 0.17 dB Peak SAR (extrapolated) = 0.132 W/kg <b>SAR(1 g) = 0.102 W/kg; SAR(10 g) = 0.080 W/kg</b> Maximum value of SAR (measured) = 0.107 W/kg</p>	
 <p>0 dB = 0.107 W/kg = -9.71 dBW/kg</p>	

Left Side	Tilt
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 836.5 \text{ MHz}</math>; <math>\sigma = 0.89 \text{ S/m}</math>; <math>\epsilon_r = 41.479</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Left Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Left HSL LTE band5/LTE band5 20BW 1RB LOW HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>            Maximum value of SAR (measured) = 0.0714 W/kg</p> <p><b>Head-Section Left HSL LTE band5/LTE band5 20BW 1RB LOW HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 5.588 V/m; Power Drift = -0.04 dB            Peak SAR (extrapolated) = 0.0860 W/kg  <b>SAR(1 g) = 0.069 W/kg; SAR(10 g) = 0.054 W/kg</b>            Maximum value of SAR (measured) = 0.0726 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -1.79 -3.58 -5.38 -7.17 -8.96</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.0726 W/kg = -11.39 dBW/kg</p>	

Right Side	Cheek
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.479</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Right HSL LTE band5/LTE band5 20BW 1RB LOW HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.129 W/kg</p> <p><b>Head-Section Right HSL LTE band5/LTE band5 20BW 1RB LOW HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 3.210 V/m; Power Drift = -0.10 dB Peak SAR (extrapolated) = 0.160 W/kg <b>SAR(1 g) = 0.129 W/kg; SAR(10 g) = 0.101 W/kg</b> Maximum value of SAR (measured) = 0.136 W/kg</p> <div data-bbox="204 1310 1385 1765"> </div> <p>0 dB = 0.136 W/kg = -8.66 dBW/kg</p>	



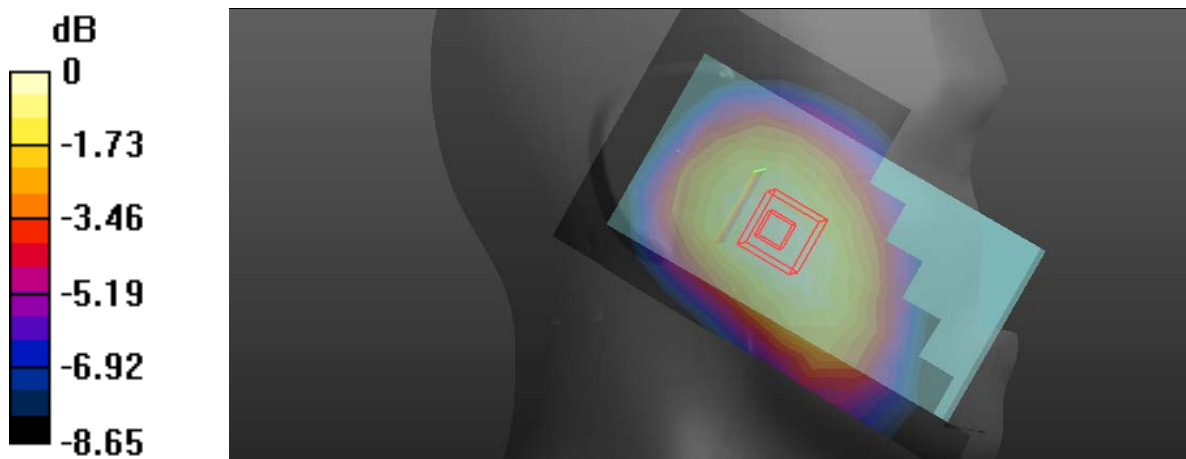
Right Side	Tilt
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Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5 \text{ MHz}$ ;  $\sigma = 0.89 \text{ S/m}$ ;  $\epsilon_r = 41.479$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

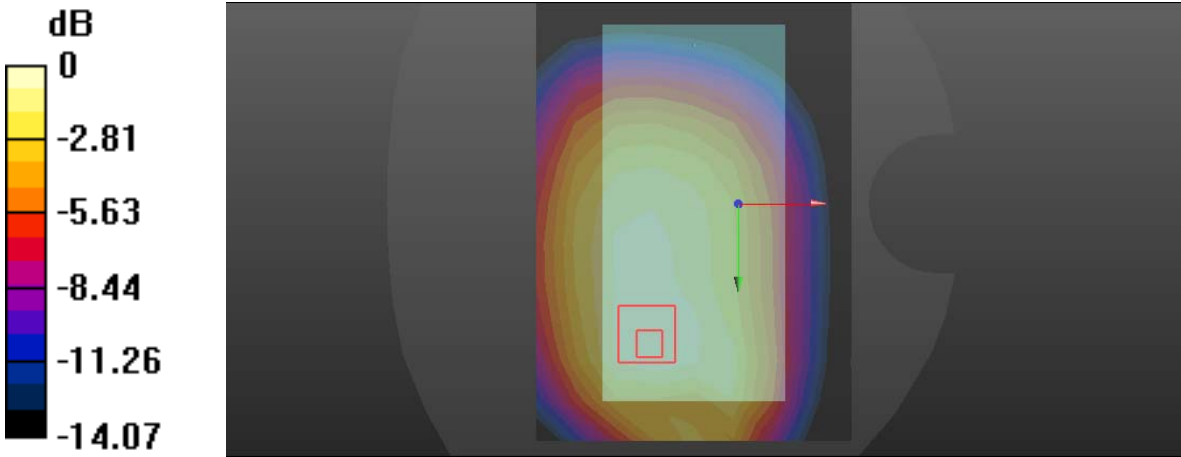
DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29;
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE4 Sn546; Calibrated: 2016/8/22
  - Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559
  - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)
- Head-Section Right HSL LTE band5/LTE band5 20BW 1RB LOW HSL tilt M/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.0768 W/kg
- Head-Section Right HSL LTE band5/LTE band5 20BW 1RB LOW HSL tilt M/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 5.520 V/m; Power Drift = 0.04 dB  
Peak SAR (extrapolated) = 0.0890 W/kg  
**SAR(1 g) = 0.074 W/kg; SAR(10 g) = 0.057 W/kg**  
Maximum value of SAR (measured) = 0.0775 W/kg

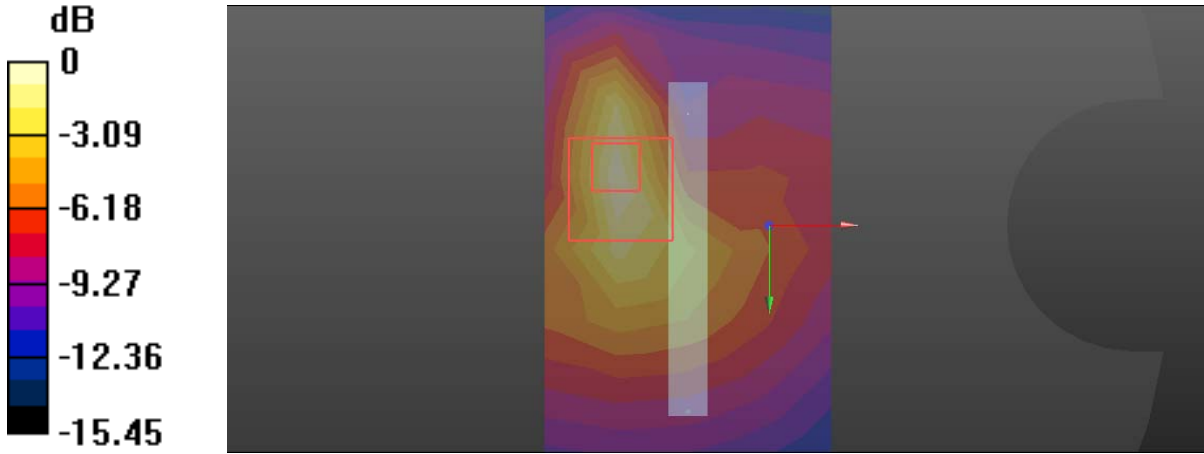


0 dB = 0.0775 W/kg = -11.11 dBW/kg

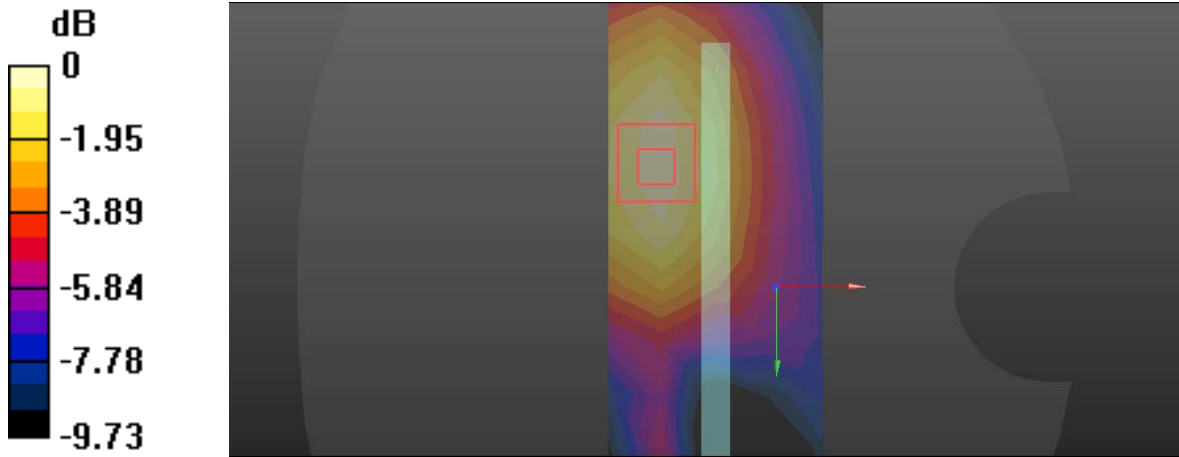
**LTE (Band 5 20BW-1RB-Low/Flat)**

FLAT	Towards phantom
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.859</math>; <math>\rho = 1000</math> kg/m<sup>3</sup></p>	
<p>Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band5 TP/LTE band5 TP 20BW 1RB LOW M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.170 W/kg</p> <p><b>Flat-Section MSL LTE band5 TP/LTE band5 TP 20BW 1RB LOW M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 11.70 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 0.222 W/kg <b>SAR(1 g) = 0.167 W/kg; SAR(10 g) = 0.122 W/kg</b> Maximum value of SAR (measured) = 0.178 W/kg</p>	
 <p style="text-align: center;">0 dB = 0.178 W/kg = -7.50 dBW/kg</p>	

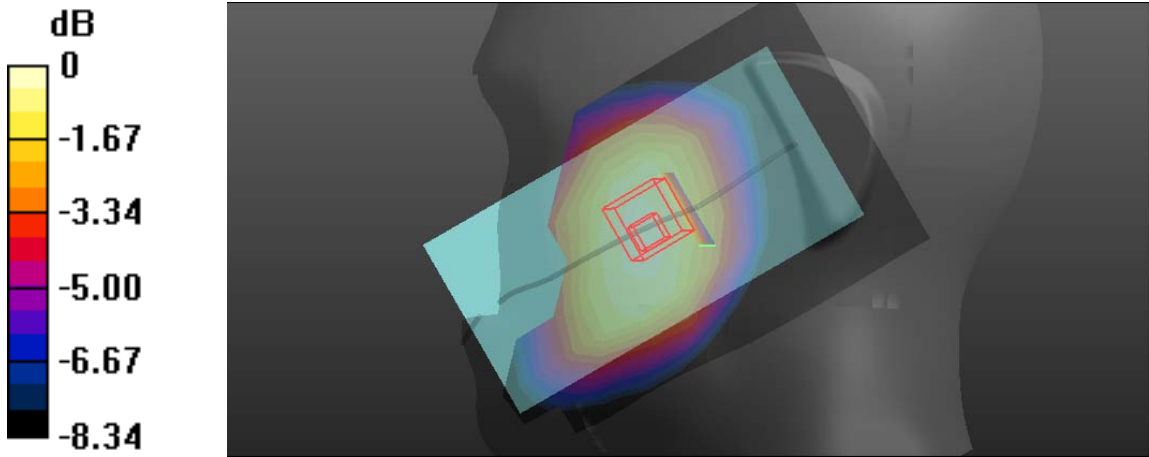
FLAT	Towards ground
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.859</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band5 TG/LTE band5 TG 20BW 1RB LOW M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.237 W/kg</p> <p><b>Flat-Section MSL LTE band5 TG/LTE band5 TG 20BW 1RB LOW M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 14.57 V/m; Power Drift = -0.00 dB            Peak SAR (extrapolated) = 0.778 W/kg  <b>SAR(1 g) = 0.258 W/kg; SAR(10 g) = 0.111 W/kg</b>            Maximum value of SAR (measured) = 0.318 W/kg</p>	
<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -3.48 -6.96 -10.45 -13.93 -17.41</p> </div> <div> <p>0 dB = 0.318 W/kg = -4.98 dBW/kg</p> </div> </div>	

FLAT	EDGE2
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.859</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band5 HOT/LTE Band2 edge2/Area Scan (5x9x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.144 W/kg</p> <p><b>Flat-Section MSL LTE band5 HOT/LTE Band2 edge2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 7.638 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.244 W/kg <b>SAR(1 g) = 0.125 W/kg; SAR(10 g) = 0.064 W/kg</b> Maximum value of SAR (measured) = 0.146 W/kg</p>	
 <p>0 dB = 0.146 W/kg = -8.36 dBW/kg</p>	

FLAT	EDGE3
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.5 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.859</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band5 HOT/LTE Band2 edge3/Area Scan (5x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.293 W/kg</p> <p><b>Flat-Section MSL LTE band5 HOT/LTE Band2 edge3/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 17.21 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.409 W/kg <b>SAR(1 g) = 0.293 W/kg; SAR(10 g) = 0.201 W/kg</b> Maximum value of SAR (measured) = 0.314 W/kg</p> <div data-bbox="212 1312 1382 1765"> </div> <p>0 dB = 0.314 W/kg = -5.03 dBW/kg</p>	

FLAT	EDGE4
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.5 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.859</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band5 HOT/LTE Band2 edge4/Area Scan (5x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0655 W/kg</p> <p><b>Flat-Section MSL LTE band5 HOT/LTE Band2 edge4/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.440 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 0.0860 W/kg <b>SAR(1 g) = 0.062 W/kg; SAR(10 g) = 0.043 W/kg</b> Maximum value of SAR (measured) = 0.0662 W/kg</p>	
 <p>0 dB = 0.0662 W/kg = -11.79 dBW/kg</p>	

**LTE (Band 5 20BW-50RB-Low/Head)**

Left Side	Cheek
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1            Medium parameters used (interpolated): f = 836.5 MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.479</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Left HSL LTE band5/LTE band5 20BW 50RB LOW HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.101 W/kg</p> <p><b>Head-Section Left HSL LTE band5/LTE band5 20BW 50RB LOW HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 2.730 V/m; Power Drift = 0.02 dB            Peak SAR (extrapolated) = 0.127 W/kg  <b>SAR(1 g) = 0.102 W/kg; SAR(10 g) = 0.080 W/kg</b>            Maximum value of SAR (measured) = 0.107 W/kg</p>	
 <p>0 dB = 0.107 W/kg = -9.71 dBW/kg</p>	

Left Side	Tilt
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1                      Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.479</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>                      Phantom section: Left Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Left HSL LTE band5/LTE band5 20BW 50RB LOW HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm                      Maximum value of SAR (measured) = 0.0603 W/kg</p> <p><b>Head-Section Left HSL LTE band5/LTE band5 20BW 50RB LOW HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm                      Reference Value = 5.173 V/m; Power Drift = 0.00 dB                      Peak SAR (extrapolated) = 0.0760 W/kg  <b>SAR(1 g) = 0.059 W/kg; SAR(10 g) = 0.045 W/kg</b>                      Maximum value of SAR (measured) = 0.0613 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -1.77 -3.54 -5.32 -7.09 -8.86</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.0613 W/kg = -12.13 dBW/kg</p>	



Right Side	Cheek
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.479</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Right HSL LTE band5/LTE band5 20BW 50RB LOW HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0974 W/kg</p> <p><b>Head-Section Right HSL LTE band5/LTE band5 20BW 50RB LOW HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 3.890 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 0.123 W/kg <b>SAR(1 g) = 0.099 W/kg; SAR(10 g) = 0.077 W/kg</b> Maximum value of SAR (measured) = 0.103 W/kg</p> <div data-bbox="193 1310 1401 1765"> </div> <p>0 dB = 0.103 W/kg = -9.87 dBW/kg</p>	

Right Side	Tilt
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Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 836.5 \text{ MHz}$ ;  $\sigma = 0.89 \text{ S/m}$ ;  $\epsilon_r = 41.479$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

**Head-Section Right HSL LTE band5/LTE band5 20BW 50RB LOW HSL tilt M/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0550 W/kg

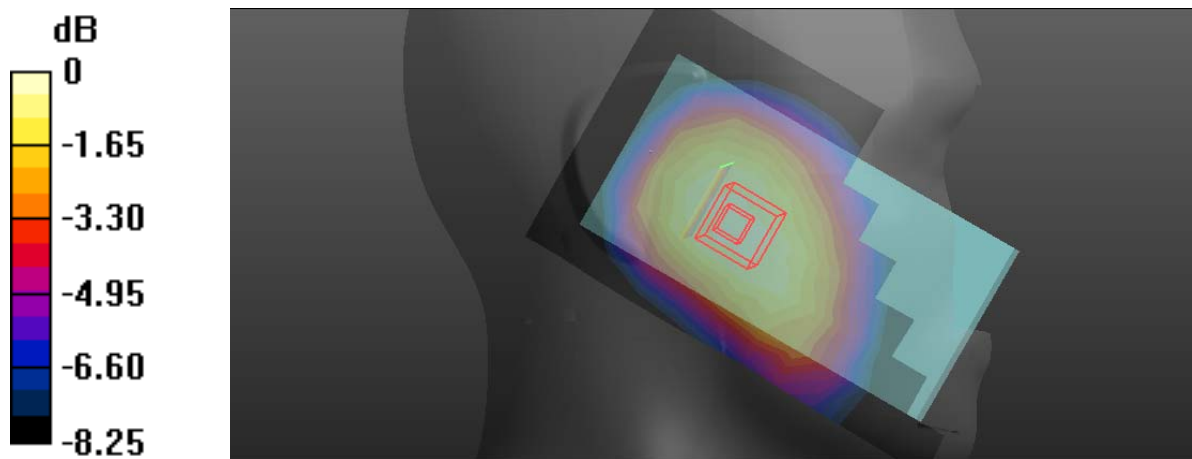
**Head-Section Right HSL LTE band5/LTE band5 20BW 50RB LOW HSL tilt M/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.426 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.0670 W/kg

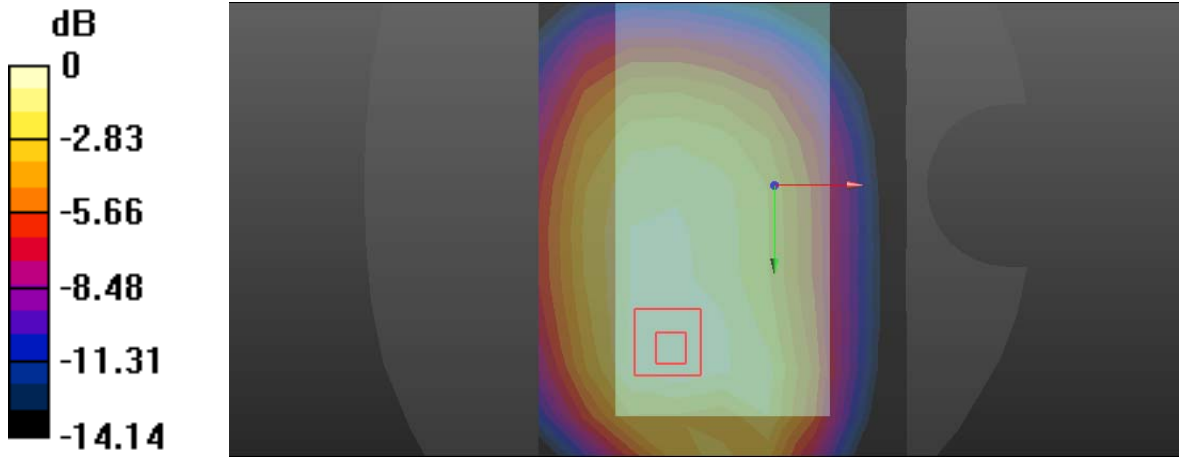
**SAR(1 g) = 0.054 W/kg; SAR(10 g) = 0.042 W/kg**

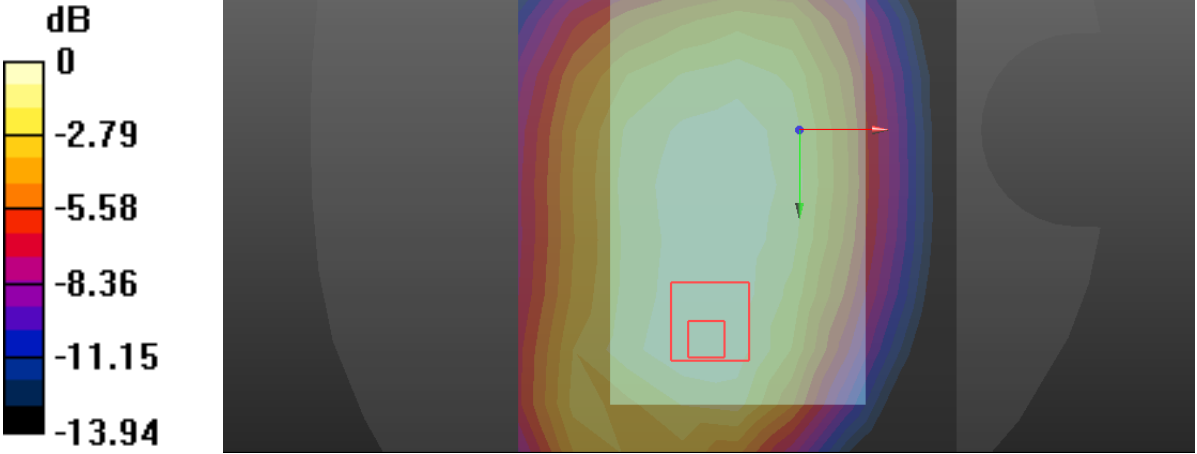
Maximum value of SAR (measured) = 0.0567 W/kg



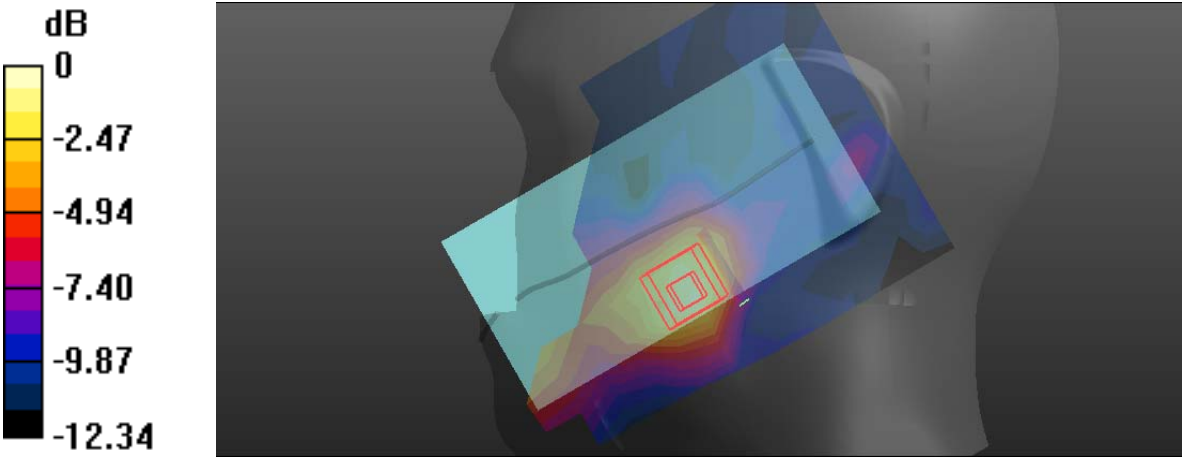
0 dB = 0.0567 W/kg = -12.46 dBW/kg

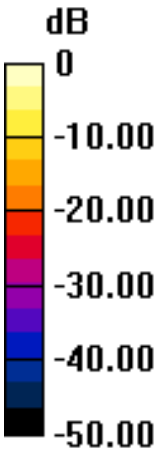
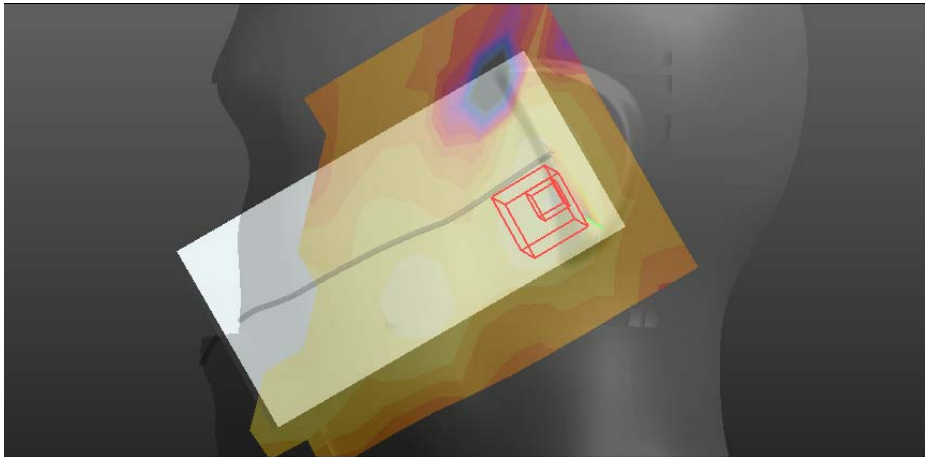
**LTE (Band 5 20BW-50RB-Low/Flat)**

FLAT	Towards phantom
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.5 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.859</math>; <math>\rho = 1000</math> kg/m<sup>3</sup></p>	
<p>Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Flat-Section MSL LTE band5 TP/LTE band5 TP 20BW 50RB LOW M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm</p>	
<p>Maximum value of SAR (measured) = 0.146 W/kg</p>	
<p><b>Flat-Section MSL LTE band5 TP/LTE band5 TP 20BW 50RB LOW M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm</p>	
<p>Reference Value = 10.69 V/m; Power Drift = 0.05 dB</p>	
<p>Peak SAR (extrapolated) = 0.193 W/kg</p>	
<p><b>SAR(1 g) = 0.145 W/kg; SAR(10 g) = 0.104 W/kg</b></p>	
<p>Maximum value of SAR (measured) = 0.153 W/kg</p>	
	
<p>0 dB = 0.153 W/kg = -8.15 dBW/kg</p>	

FLAT	Towards ground
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.859</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band5 TG/LTE band5 TG 20BW 50RB LOW M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.178 W/kg</p> <p><b>Flat-Section MSL LTE band5 TG/LTE band5 TG 20BW 50RB LOW M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 13.44 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 0.227 W/kg <b>SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.127 W/kg</b> Maximum value of SAR (measured) = 0.184 W/kg</p>	
 <p>0 dB = 0.184 W/kg = -7.35 dBW/kg</p>	

**LTE (Band 7 20BW-1RB-Low/Head)**

Left Side	Cheek
<p>Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK);            Frequency: 2535 MHz;Duty Cycle: 1:3.74111            Medium parameters used: <math>f = 2535 \text{ MHz}</math>; <math>\sigma = 2.01 \text{ S/m}</math>; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Head-Section HSL LTE band7 Left/LTE band7 20MHz 1RB Low HSL touch M/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math></p>	
<p>Maximum value of SAR (measured) = 0.0626 W/kg</p>	
<p><b>Head-Section HSL LTE band7 Left/LTE band7 20MHz 1RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math></p>	
<p>Reference Value = 0.9200 V/m; Power Drift = 0.08 dB</p>	
<p>Peak SAR (extrapolated) = 0.125 W/kg</p>	
<p><b>SAR(1 g) = 0.064 W/kg; SAR(10 g) = 0.034 W/kg</b></p>	
<p>Maximum value of SAR (measured) = 0.0706 W/kg</p>	
	
<p>0 dB = 0.0706 W/kg = -11.51 dBW/kg</p>	

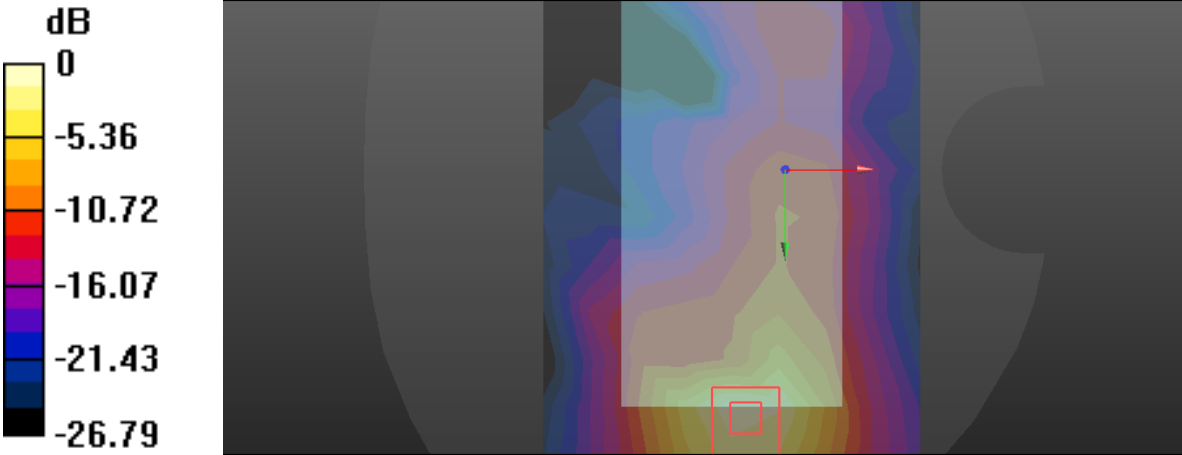
Left Side	Tilt
Communication System: UID 10297 - AAA, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK); Frequency: 2535 MHz;Duty Cycle: 1:3.81066 Medium parameters used: f = 2535 MHz; $\sigma = 2.01$ S/m; $\epsilon_r = 36.5$ ; $\rho = 1000$ kg/m <sup>3</sup> Phantom section: Left Section	
DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band7 Left/LTE band7 20MHz 1RB Low HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm                      Maximum value of SAR (measured) = 0.0227 W/kg</p> <p><b>Head-Section HSL LTE band7 Left/LTE band7 20MHz 1RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm                      Reference Value = 3.333 V/m; Power Drift = -0.04 dB                      Peak SAR (extrapolated) = 0.101 W/kg  <b>SAR(1 g) = 0.027 W/kg; SAR(10 g) = 0.012 W/kg</b>                      Maximum value of SAR (measured) = 0.0448 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 0.0448 W/kg = -13.49 dBW/kg</p>	

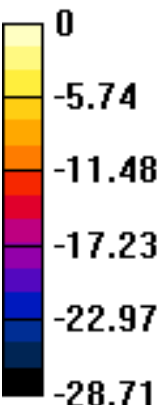
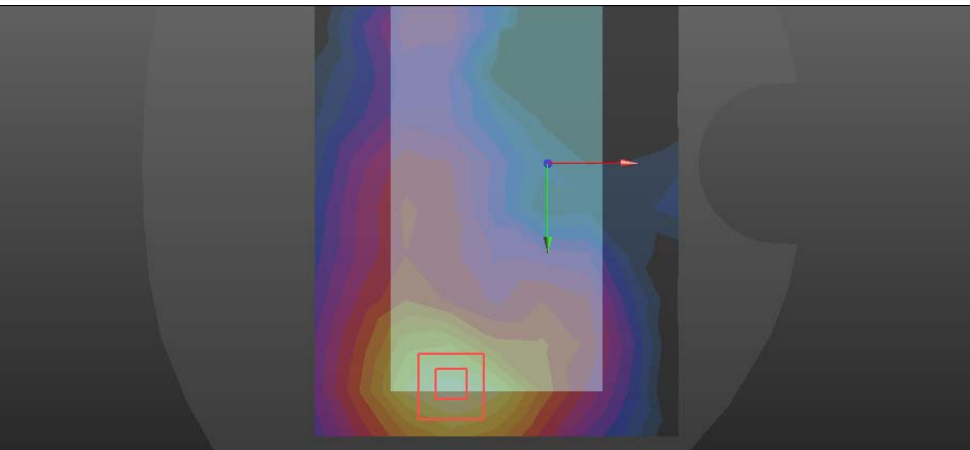
Right Side	Cheek
<p>Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1                      Medium parameters used: <math>f = 2535 \text{ MHz}</math>; <math>\sigma = 2.01 \text{ S/m}</math>; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000 \text{ kg/m}^3</math>                      Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band7 Right/LTE band7 20MHz 1RB Low HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm                      Maximum value of SAR (measured) = 0.0324 W/kg</p> <p><b>Head-Section HSL LTE band7 Right/LTE band7 20MHz 1RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm                      Reference Value = 1.823 V/m; Power Drift = 0.02 dB                      Peak SAR (extrapolated) = 0.0730 W/kg  <b>SAR(1 g) = 0.034 W/kg; SAR(10 g) = 0.021 W/kg</b>                      Maximum value of SAR (measured) = 0.0370 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -2.05 -4.09 -6.14 -8.18 -10.23</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.0370 W/kg = -14.32 dBW/kg</p>	

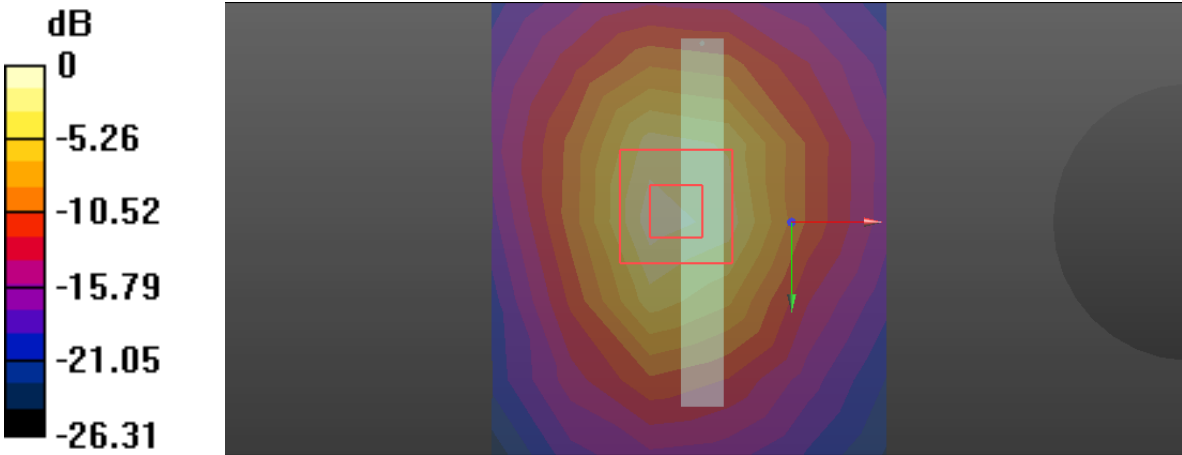
Right Side	Tilt
<p>Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1                      Medium parameters used: <math>f = 2535 \text{ MHz}</math>; <math>\sigma = 2.01 \text{ S/m}</math>; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000 \text{ kg/m}^3</math>                      Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band7 Right/LTE band7 20MHz 1RB Low HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>                      Maximum value of SAR (measured) = 0.0220 W/kg</p> <p><b>Head-Section HSL LTE band7 Right/LTE band7 20MHz 1RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>                      Reference Value = 2.632 V/m; Power Drift = 0.03 dB                      Peak SAR (extrapolated) = 0.112 W/kg  <b>SAR(1 g) = 0.030 W/kg; SAR(10 g) = 0.013 W/kg</b>                      Maximum value of SAR (measured) = 0.0699 W/kg</p> <div data-bbox="191 1232 1404 1691"> <p>The figure is a heatmap representing SAR measurements. On the left, a vertical color scale is labeled 'dB' and ranges from 0 (yellow) to -15.38 (black), with intermediate values at -3.08, -6.15, -9.23, and -12.30. The main image shows a 3D model of a device with a heatmap overlaid on its surface. A red rectangular box highlights a specific region on the device's top surface.</p> </div> <p>0 dB = 0.0699 W/kg = -11.56 dBW/kg</p>	

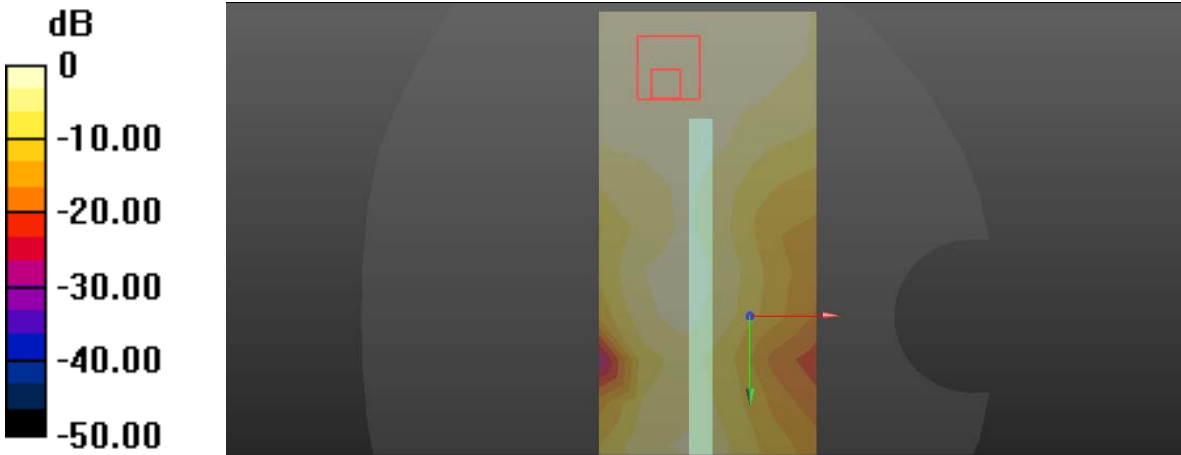


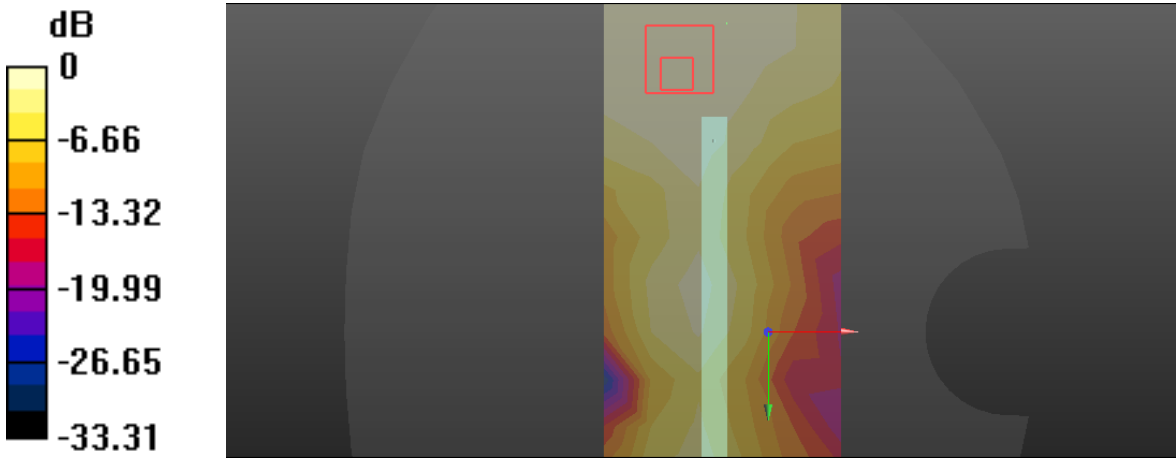
**LTE (Band 7 20BW-1RB-Low/Flat)**

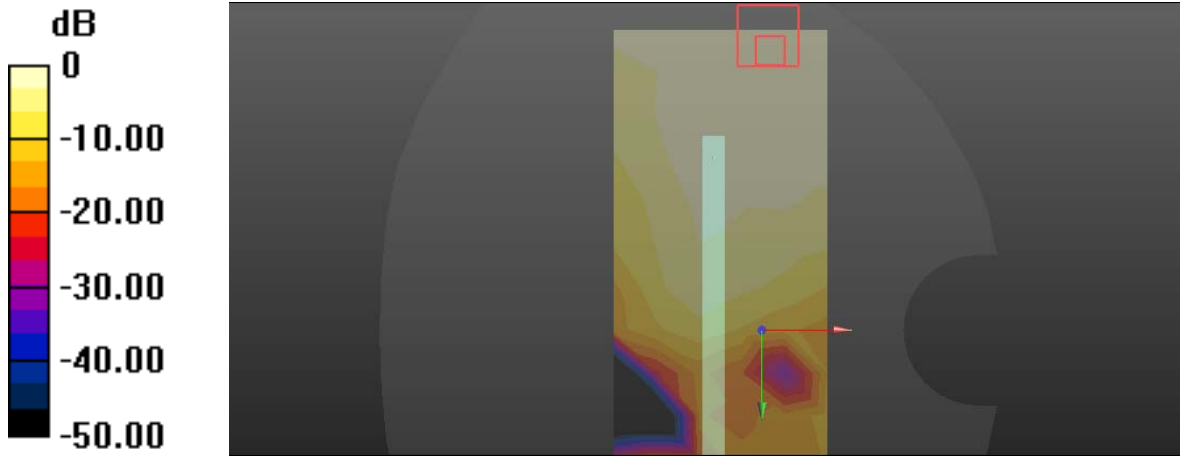
FLAT	Towards phantom
<p>Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK);            Frequency: 2535 MHz;Duty Cycle: 1:3.74111            Medium parameters used: f = 2535 MHz; <math>\sigma = 2.15</math> S/m; <math>\epsilon_r = 50.36</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 TP/LTE band7 TP 20MHz 1RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.318 W/kg</p> <p><b>Flat-Section MSL LTE band7 TP/LTE band7 TP 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 2.694 V/m; Power Drift = -0.01 dB            Peak SAR (extrapolated) = 0.751 W/kg  <b>SAR(1 g) = 0.322 W/kg; SAR(10 g) = 0.146 W/kg</b>            Maximum value of SAR (measured) = 0.358 W/kg</p>	
 <p>0 dB = 0.358 W/kg = -4.46 dBW/kg</p>	

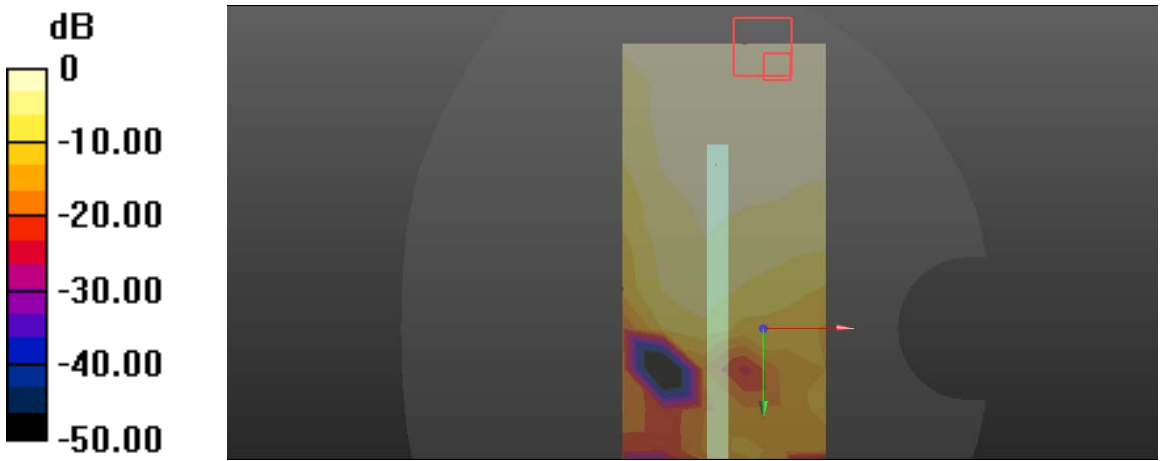
FLAT	Towards ground
<p>Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK);            Frequency: 2535 MHz;Duty Cycle: 1:3.74111            Medium parameters used: <math>f = 2535 \text{ MHz}</math>; <math>\sigma = 2.15 \text{ S/m}</math>; <math>\epsilon_r = 50.36</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 TG/LTE band7 TG 20MHz 1RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>            Maximum value of SAR (measured) = 0.819 W/kg</p> <p><b>Flat-Section MSL LTE band7 TG/LTE band7 TG 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 2.102 V/m; Power Drift = 0.04 dB            Peak SAR (extrapolated) = 1.82 W/kg  <b>SAR(1 g) = 0.740 W/kg; SAR(10 g) = 0.311 W/kg</b>            Maximum value of SAR (measured) = 0.840 W/kg</p>	
<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 0.840 W/kg = -0.76 dBW/kg</p>	

FLAT	EDGE2
<p>Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 2535</math> MHz; <math>\sigma = 2.01</math> S/m; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mm M edge 2/Area Scan (6x11x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.493 W/kg</p> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mm M edge 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 15.74 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 1.16 W/kg <b>SAR(1 g) = 0.523 W/kg; SAR(10 g) = 0.234 W/kg</b> Maximum value of SAR (measured) = 0.577 W/kg</p>	
 <p>0 dB = 0.577 W/kg = -2.39 dBW/kg</p>	

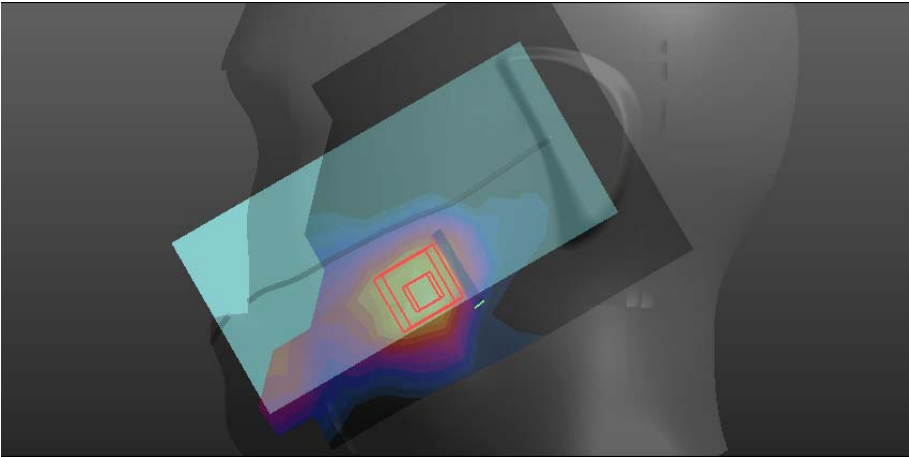
FLAT	EDGE3
<p>Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 2535</math> MHz; <math>\sigma = 2.01</math> S/m; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 3/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0498 W/kg</p> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 3/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 3.938 V/m; Power Drift = 0.16 dB Peak SAR (extrapolated) = 0.103 W/kg <b>SAR(1 g) = 0.049 W/kg; SAR(10 g) = 0.027 W/kg</b> Maximum value of SAR (measured) = 0.0525 W/kg</p>	
 <p>0 dB = 0.0525 W/kg = -12.80 dBW/kg</p>	

FLAT	EDGE3
<p>Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 2535 \text{ MHz}</math>; <math>\sigma = 2.01 \text{ S/m}</math>; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000 \text{ kg/m}^3</math> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 3 2/Area Scan (6x15x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math> Maximum value of SAR (measured) = 0.0506 W/kg</p> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 3 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math> Reference Value = 3.939 V/m; Power Drift = 0.17 dB Peak SAR (extrapolated) = 0.104 W/kg <b>SAR(1 g) = 0.050 W/kg; SAR(10 g) = 0.027 W/kg</b> Maximum value of SAR (measured) = 0.0531 W/kg</p>	
 <p>0 dB = 0.0531 W/kg = -12.75 dBW/kg</p>	

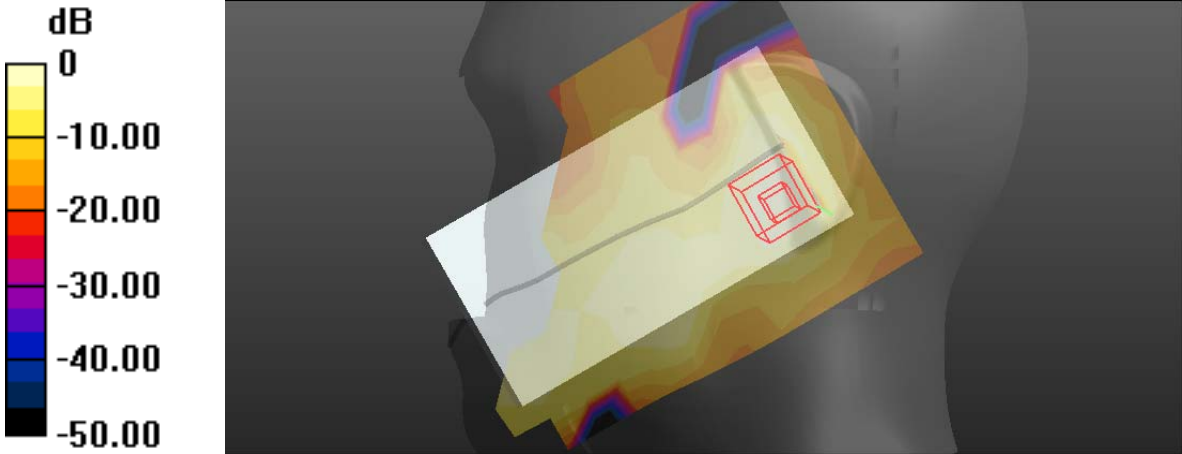
FLAT	EDGE4
<p>Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 2535</math> MHz; <math>\sigma = 2.01</math> S/m; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 4/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0193 W/kg</p> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 4/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 1.183 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 0.0400 W/kg <b>SAR(1 g) = 0.019 W/kg; SAR(10 g) = 0.010 W/kg</b> Maximum value of SAR (measured) = 0.0196 W/kg</p>	
 <p>0 dB = 0.0196 W/kg = -17.08 dBW/kg</p>	

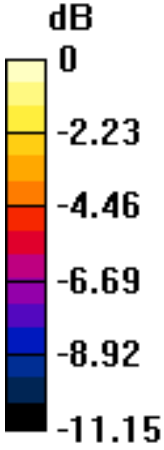
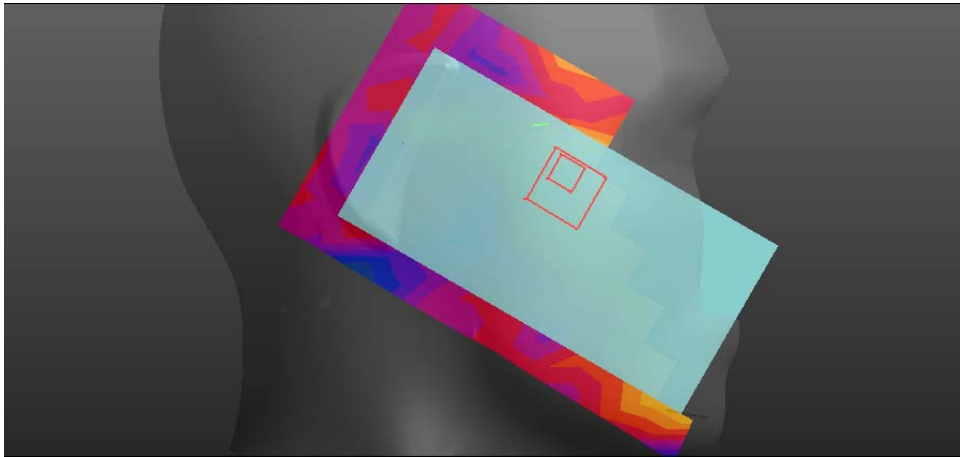
FLAT	EDGE4
<p>Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 2535 \text{ MHz}</math>; <math>\sigma = 2.01 \text{ S/m}</math>; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000 \text{ kg/m}^3</math> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 4 2/Area Scan (6x15x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math> Maximum value of SAR (measured) = 0.0178 W/kg</p> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 4 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math> Reference Value = 1.043 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.0360 W/kg <b>SAR(1 g) = 0.017 W/kg; SAR(10 g) = 0.00988 W/kg</b> Maximum value of SAR (measured) = 0.0190 W/kg</p>	
 <p>0 dB = 0.0190 W/kg = -17.21 dBW/kg</p>	

**LTE (Band 7 20BW-50RB-Low/Head)**

Left Side	Cheek
<p>Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK);            Frequency: 2535 MHz;Duty Cycle: 1:3.74111            Medium parameters used: f = 2535 MHz; <math>\sigma = 2.01</math> S/m; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band7 Left/LTE band7 20MHz 50RB Low HSL touch M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.0544 W/kg</p> <p><b>Head-Section HSL LTE band7 Left/LTE band7 20MHz 50RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 1.993 V/m; Power Drift = 0.07 dB            Peak SAR (extrapolated) = 0.132 W/kg  <b>SAR(1 g) = 0.057 W/kg; SAR(10 g) = 0.030 W/kg</b>            Maximum value of SAR (measured) = 0.0688 W/kg</p>	
	
<p>0 dB = 0.0688 W/kg = -11.62 dBW/kg</p>	

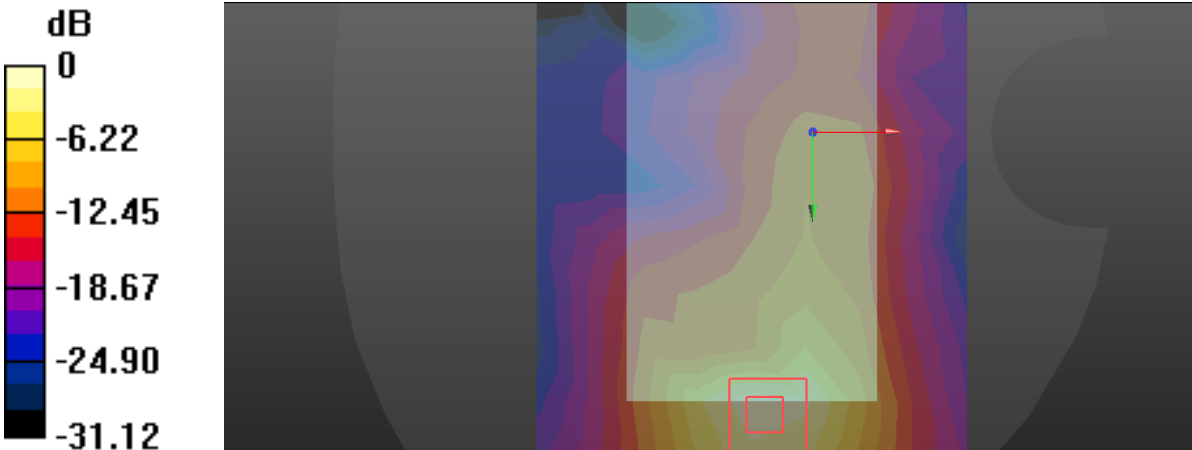


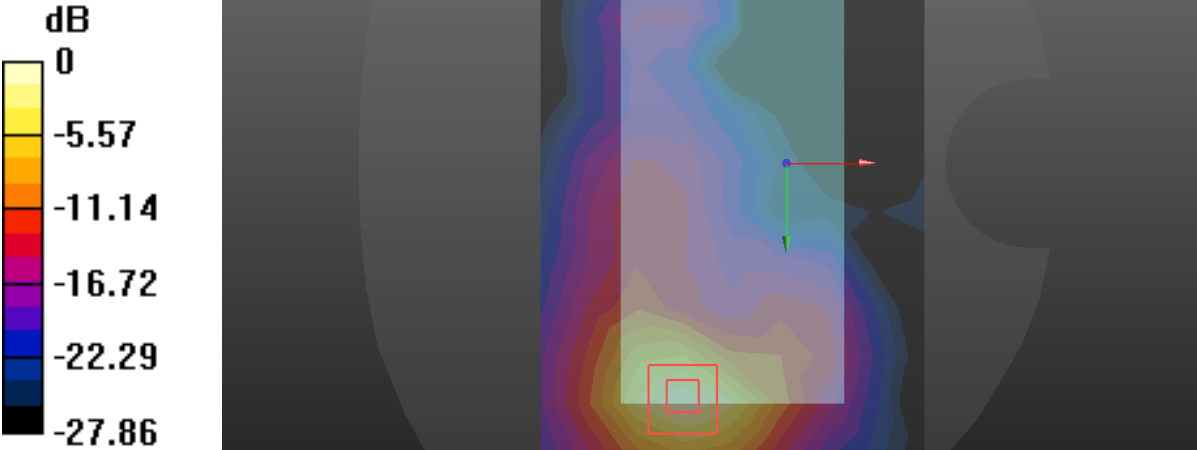
Left Side	Tilt
<p>Communication System: UID 10297 - AAA, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK); Frequency: 2535 MHz;Duty Cycle: 1:3.81066 Medium parameters used: <math>f = 2535</math> MHz; <math>\sigma = 2.01</math> S/m; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Left Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band7 Left/LTE band7 20MHz 50RB Low HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0186 W/kg</p> <p><b>Head-Section HSL LTE band7 Left/LTE band7 20MHz 50RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 2.718 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 0.0450 W/kg <b>SAR(1 g) = 0.020 W/kg; SAR(10 g) = 0.00918 W/kg</b> Maximum value of SAR (measured) = 0.0254 W/kg</p>	
 <p>0 dB = 0.0254 W/kg = -15.95 dBW/kg</p>	

Right Side	Cheek
<p>Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 2535</math> MHz; <math>\sigma = 2.01</math> S/m; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000</math> kg/m<sup>3</sup> Phantom section: Right Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>	
<p><b>Head-Section HSL LTE band7 Right/LTE band7 20MHz 50RB Low HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.0280 W/kg <b>Head-Section HSL LTE band7 Right/LTE band7 20MHz 50RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 2.046 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 0.0730 W/kg <b>SAR(1 g) = 0.029 W/kg; SAR(10 g) = 0.019 W/kg</b> Maximum value of SAR (measured) = 0.0333 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  </div> <div>  </div> </div> <p style="text-align: center;">0 dB = 0.0333 W/kg = -14.78 dBW/kg</p>	

Right Side	Tilt
<p>Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1                      Medium parameters used: <math>f = 2535 \text{ MHz}</math>; <math>\sigma = 2.01 \text{ S/m}</math>; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000 \text{ kg/m}^3</math>                      Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band7 Right/LTE band7 20MHz 50RB Low HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm                      Maximum value of SAR (measured) = 0.0188 W/kg</p> <p><b>Head-Section HSL LTE band7 Right/LTE band7 20MHz 50RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm                      Reference Value = 2.520 V/m; Power Drift = 0.04 dB                      Peak SAR (extrapolated) = 0.424 W/kg  <b>SAR(1 g) = 0.035 W/kg; SAR(10 g) = 0.012 W/kg</b>                      Maximum value of SAR (measured) = 0.0995 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -3.49 -6.98 -10.47 -13.96 -17.45</p> </div> <div> </div> </div> <p>0 dB = 0.0995 W/kg = -10.02 dBW/kg</p>	

**LTE (Band 7 20BW-50RB-Low/Flat)**

FLAT	Towards phantom
<p>Communication System: UID 10297 - AAA, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK);            Frequency: 2535 MHz;Duty Cycle: 1:3.81066            Medium parameters used: f = 2535 MHz; <math>\sigma = 2.15</math> S/m; <math>\epsilon_r = 50.36</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 TP/LTE band7 TP 20MHz 50RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.263 W/kg</p> <p><b>Flat-Section MSL LTE band7 TP/LTE band7 TP 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 2.398 V/m; Power Drift = 0.16 dB            Peak SAR (extrapolated) = 0.624 W/kg  <b>SAR(1 g) = 0.270 W/kg; SAR(10 g) = 0.123 W/kg</b>            Maximum value of SAR (measured) = 0.296 W/kg</p>	
 <p>0 dB = 0.296 W/kg = -5.29 dBW/kg</p>	

FLAT	Towards ground
<p>Communication System: UID 10297 - AAA, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK); Frequency: 2535 MHz;Duty Cycle: 1:3.81066 Medium parameters used: <math>f = 2535 \text{ MHz}</math>; <math>\sigma = 2.15 \text{ S/m}</math>; <math>\epsilon_r = 50.36</math>; <math>\rho = 1000 \text{ kg/m}^3</math> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 TG/LTE band7 TG 20MHz 50RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math> Maximum value of SAR (measured) = 0.667 W/kg</p> <p><b>Flat-Section MSL LTE band7 TG/LTE band7 TG 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math> Reference Value = 1.967 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 1.51 W/kg <b>SAR(1 g) = 0.613 W/kg; SAR(10 g) = 0.258 W/kg</b> Maximum value of SAR (measured) = 0.688 W/kg</p>	
 <p>0 dB = 0.688 W/kg = -1.62 dBW/kg</p>	

**NEW TEST**

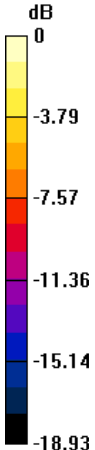
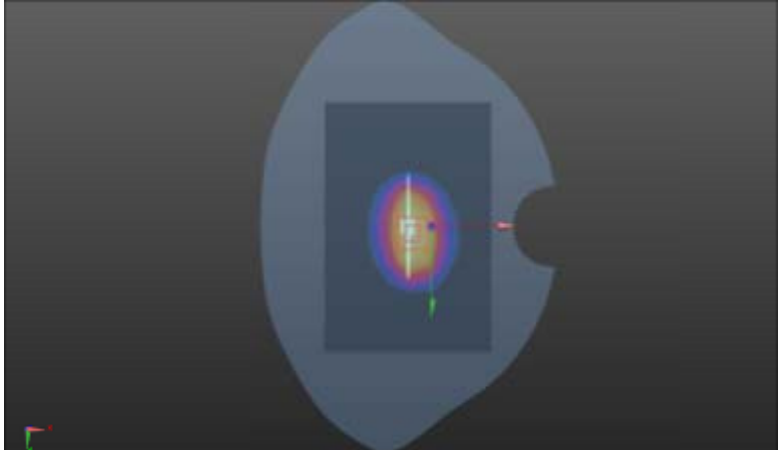
**SYSTEM CHECK**

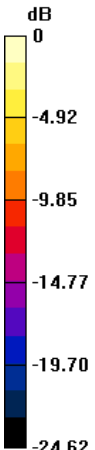
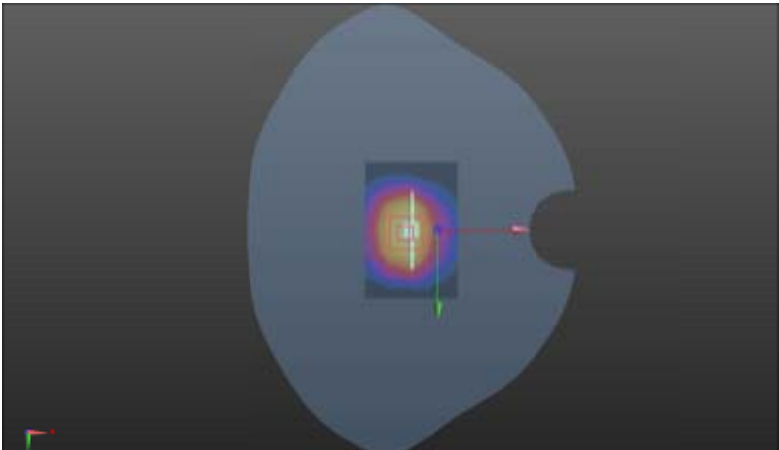
SYSTEM CHECKING SCANS	835MHz Head
<p>Communication System: UID 0, CW (0); Frequency: 835 MHz            Medium parameters used (extrapolated): <math>f = 835 \text{ MHz}</math>; <math>\sigma = 0.894 \text{ S/m}</math>; <math>\epsilon_r = 42.236</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Flat Section            Measurement Standard:DASY5 (IEEE 1528-2013)</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(5.97, 5.97, 5.97); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection), <math>z = 2.0, 32.0</math></li> <li>• Electronics: DAE4 Sn546; Calibrated: 8/22/2016</li> <li>• Phantom: SAM 1559; Type: SAM; Serial: 1559</li> <li>• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)</li> </ul> <p><b>System Performance Check at Frequencies 835MHz Head/d=15mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Area Scan (10x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>            Maximum value of SAR (measured) = 2.97 W/kg</p> <p><b>System Performance Check at Frequencies 835MHz Head/d=15mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 52.036 V/m; Power Drift = -0.12 dB            Peak SAR (extrapolated) = 3.82 W/kg  <b>SAR(1 g) = 2.42 W/kg; SAR(10 g) = 1.65 W/kg</b>            Maximum value of SAR (measured) = 3.11 W/kg</p> <div data-bbox="343 1411 1252 1859"> <p>The figure is a heatmap representing the SAR distribution. On the left, a vertical color scale is labeled 'dB' and ranges from 0 (yellow) at the top to -10.21 (black) at the bottom, with intermediate markers at -2.04, -4.08, -6.13, and -8.17. The main image shows a central bright yellow/red area, indicating the highest SAR values, which transitions through orange and red to purple and blue as it moves away from the center. The background is dark grey/black, representing the lowest SAR values. The shape of the distribution is roughly oval, centered on the phantom's head area.</p> </div>	

SYSTEM CHECKING SCANS	835MHz Flat
<p>Communication System: UID 0, CW (0); Frequency: 835 MHz            Medium parameters used (extrapolated): <math>f = 835 \text{ MHz}</math>; <math>\sigma = 0.986 \text{ S/m}</math>; <math>\epsilon_r = 53.733</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Flat Section            Measurement Standard: DASYS5 (IEEE 1528-2013)</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(5.88, 5.88, 5.88); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection), <math>z = -18.0, 32.0</math></li> <li>• Electronics: DAE4 Sn546; Calibrated: 8/22/2016</li> <li>• Phantom: SAM 1559; Type: SAM; Serial: 1559</li> <li>• DASYS5 52.8.7(1137); SEMCAD X 14.6.10(7164)</li> </ul> <p><b>System Performance Check at Frequencies 835MHz Flat/d=15mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Area Scan (7x12x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>            Maximum value of SAR (measured) = 2.78 W/kg</p> <p><b>System Performance Check at Frequencies 835MHz Flat/d=15mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 55.425 V/m; Power Drift = 0.10 dB            Peak SAR (extrapolated) = 3.22 W/kg  <b>SAR(1 g) = 2.28 W/kg; SAR(10 g) = 1.89 W/kg</b>            Maximum value of SAR (measured) = 2.63 W/kg</p> <div data-bbox="343 1411 1252 1859"> </div>	

SYSTEM CHECKING SCANS	1900MHz Head
<p>Communication System: UID 0, CW (0); Frequency: 1900 MHz            Medium parameters used: <math>f = 1900 \text{ MHz}</math>; <math>\sigma = 1.42 \text{ S/m}</math>; <math>\epsilon_r = 40.77</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Flat Section            Measurement Standard:DASY5 (IEEE 1528-2013)</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(4.94, 4.94, 4.94); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection), <math>z = 2.0, 32.0</math></li> <li>• Electronics: DAE4 Sn546; Calibrated: 8/22/2016</li> <li>• Phantom: SAM 1560; Type: SAM; Serial: 1560</li> <li>• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)</li> </ul> <p><b>System Performance Check at Frequencies 1900MHz Head/d=10mm, Pin=250mW, dist=2.0mm (EX-Probe)/Area Scan (9x12x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>            Maximum value of SAR (measured) = 14.5 W/kg</p> <p><b>System Performance Check at Frequencies 1900MHz Head/d=10mm, Pin=250mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 97.6 V/m; Power Drift = 0.18 dB            Peak SAR (extrapolated) = 21.7 W/kg  <b>SAR(1 g) = 9.91 W/kg; SAR(10 g) = 5.31 W/kg</b>            Maximum value of SAR (measured) = 14.8 W/kg</p> <div data-bbox="343 1332 1252 1780"> <p>The figure is a heatmap representing SAR measurements. On the left, a vertical color scale is labeled 'dB' and ranges from 0 (yellow) at the top to -18.73 (black) at the bottom, with intermediate markers at -3.75, -7.49, -11.24, and -14.98. The main heatmap shows a central bright yellow/red spot, indicating the highest SAR value, which transitions through orange, red, and purple to blue and black as the intensity decreases. The shape of the high-intensity region is roughly circular and centered within a larger, darker area.</p> </div>	



SYSTEM CHECKING SCANS	1900MHz Flat
<p>Communication System: UID 0, CW (0); Frequency: 1900 MHz            Medium parameters used: <math>f = 1900</math> MHz; <math>\sigma = 1.49</math> S/m; <math>\epsilon_r = 52.776</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section            Measurement Standard:DASY5 (IEEE 1528-2013)</p>	
<p>DASY Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(4.67, 4.67, 4.67); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection), <math>z = 2.0, 32.0</math></li> <li>• Electronics: DAE4 Sn546; Calibrated: 8/22/2016</li> <li>• Phantom: SAM 1560; Type: SAM; Serial: 1560</li> <li>• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)</li> </ul>	
<p><b>System Performance Check at Frequencies 1900MHz Flat/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Area Scan (9x11x1):</b> Measurement grid: dx=15mm, dy=15mm</p>	
<p>Maximum value of SAR (measured) = 15.5 W/kg</p>	
<p><b>System Performance Check at Frequencies 1900MHz Flat/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm</p>	
<p>Reference Value = 93.5 V/m; Power Drift = 0.10 dB</p>	
<p>Peak SAR (extrapolated) = 18.8 W/kg</p>	
<p><b>SAR(1 g) = 9.44 W/kg; SAR(10 g) = 5.52 W/kg</b></p>	
<p>Maximum value of SAR (measured) = 13.7 W/kg</p>	
	

SYSTEM CHECKING SCANS	2450 MHz Head
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1 Medium parameters used: $f = 2450 \text{ MHz}$ ; $\sigma = 1.83 \text{ S/m}$ ; $\epsilon_r = 39.459$ ; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section	
DASY5 Configuration:	
<ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(4.35, 4.35, 4.35); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2015/8/19</li> <li>Phantom: SAM 1659; Type: QD000P40CD; Serial: TP:1659</li> <li>Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)</li> </ul>	
<b>System Performance Check at Frequencies 2450MHz Head/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Area Scan (5x7x1):</b> Measurement grid: dx=15mm, dy=15mm	
Maximum value of SAR (measured) = 17.5 W/kg	
<b>System Performance Check at Frequencies 2450MHz Head/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm	
Reference Value = 101.8 V/m; Power Drift = -0.13 dB	
Peak SAR (extrapolated) = 29.7 W/kg	
<b>SAR(1 g) = 12.64 W/kg; SAR(10 g) = 5.66 W/kg</b>	
Maximum value of SAR (measured) = 17.4 W/kg	
	

**SYSTEM CHECKING SCANS**

**2450MHz Flat**

Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.944$  S/m;  $\epsilon_r = 52.438$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3708; ConvF(4.19, 4.19, 4.19); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2015/8/19
- Phantom: SAM 1659; Type: QD000P40CD; Serial: TP:1659
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**System Performance Check at Frequencies 2450MHz Flat/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 18.6 W/kg

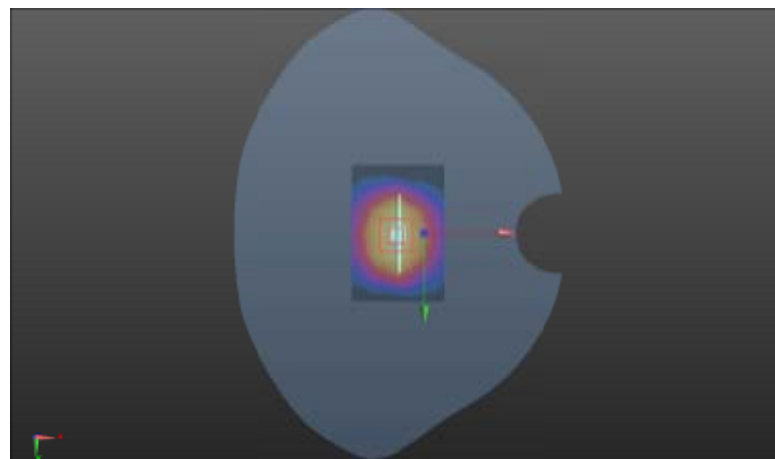
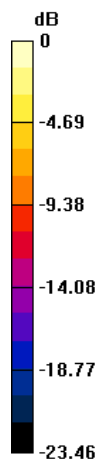
**System Performance Check at Frequencies 2450MHz Flat/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 110.6 V/m; Power Drift = 0.12 dB

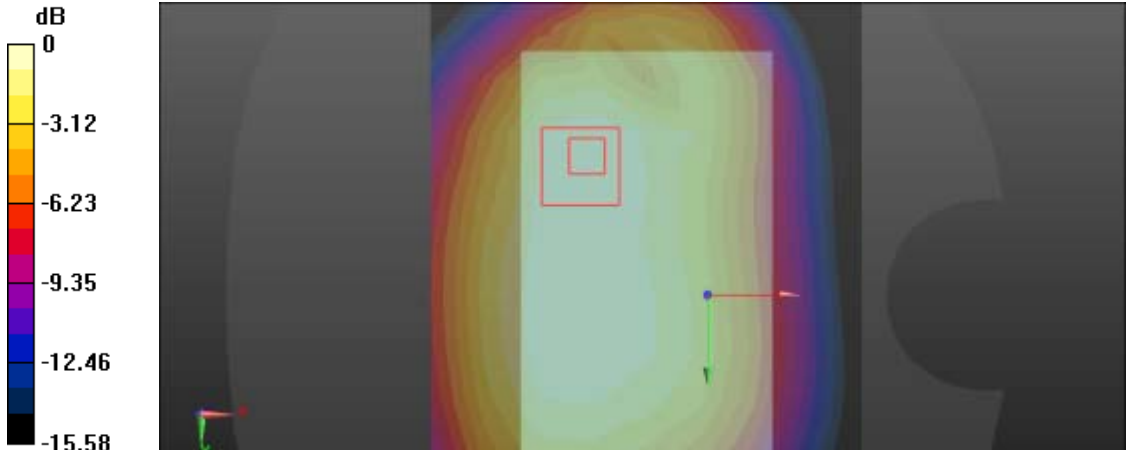
Peak SAR (extrapolated) = 29.6 W/kg

**SAR(1 g) = 13.11 W/kg; SAR(10 g) = 5.93 W/kg**

Maximum value of SAR (measured) = 18.2 W/kg



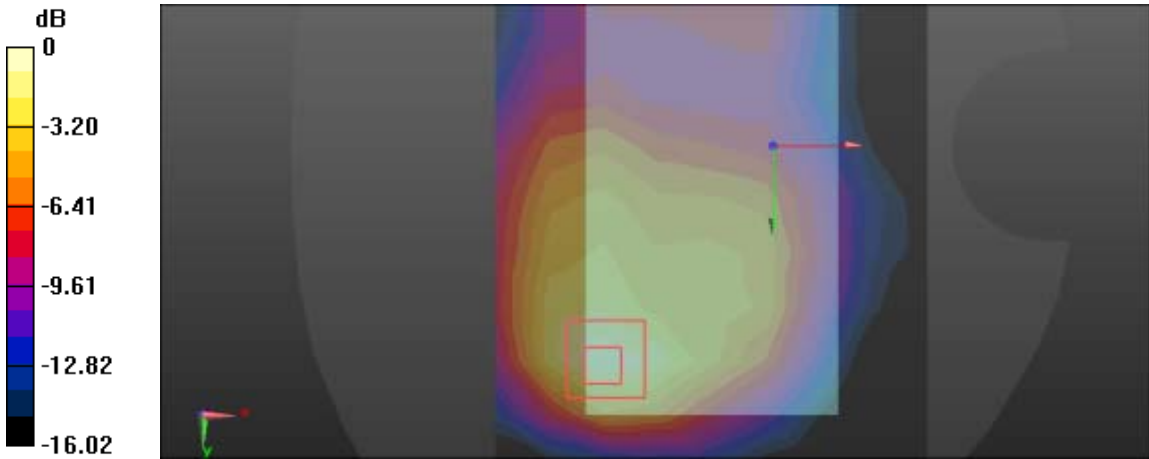
**GSM850**

FLAT	Towards ground
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz;Duty Cycle: 1:8.6896            Medium parameters used (interpolated): f = 836.6 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 850 TG/850EGPRS TG M 10mm/Area Scan (9x13x1):</b>            Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.772 W/kg</p> <p><b>Flat-Section MSL 850 TG/850EGPRS TG M 10mm/Zoom Scan (7x7x7)/Cube 0:</b>            Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 24.12 V/m; Power Drift = 0.11 dB            Peak SAR (extrapolated) = 0.89 W/kg  <b>SAR(1 g) = 0.685 W/kg; SAR(10 g) = 0.451 W/kg</b>            Maximum value of SAR (measured) = 0.743 W/kg</p>	
 <p>0 dB = 0.743 W/kg = -1.29 dBW/kg</p>	

**GSM1900**

FLAT	Towards ground
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz;Duty Cycle: 1:8.6896            Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 1900 TG/1900EGPRS TG M 10mm/Area Scan (9x13x1):</b>            Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.594 W/kg</p> <p><b>Flat-Section MSL 1900 TG/1900EGPRS TG M 10mm/Zoom Scan (7x7x7)/Cube 0:</b>            Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 12.17 V/m; Power Drift = 0.03 dB            Peak SAR (extrapolated) = 1.18 W/kg  <b>SAR(1 g) = 0.726 W/kg; SAR(10 g) = 0.355 W/kg</b>            Maximum value of SAR (measured) = 0.691 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 10px;"> <p>dB</p> <p>0 -3.07 -6.13 -9.20 -12.26 -15.33</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.691 W/kg = -1.61 dBW/kg</p>	

**WCDMA BAND2**

FLAT(VIOCE)	Towards ground
<p>Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: <math>f = 1880 \text{ MHz}</math>; <math>\sigma = 1.57 \text{ S/m}</math>; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000 \text{ kg/m}^3</math> Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TG voice M 10mm/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math> Maximum value of SAR (measured) = 0.577 W/kg</p> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TG voice M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math> Reference Value = 7.245V/m; Power Drift = -0.10 dB Peak SAR (extrapolated) = 0.8 8/kg <b>SAR(1 g) = 0.491 W/kg; SAR(10 g) = 0.242 W/kg</b> Maximum value of SAR (measured) = 0.563 W/kg</p>	
 <p>0 dB = 0.563 = -2.49 dBW/kg</p>	

**WCDMA BAND4**

FLAT(VIOCE )	Towards ground
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz;Duty Cycle: 1:1.95434            Medium parameters used (interpolated): f = 1732.6 MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TG voice M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.666 W/kg</p> <p><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TG voice M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 7.112 V/m; Power Drift = 0.07 dB            Peak SAR (extrapolated) = 1.21 W/kg  <b>SAR(1 g) = 0.638 W/kg; SAR(10 g) = 0.304 W/kg</b>            Maximum value of SAR (measured) = 0.659 W/kg</p> <div data-bbox="220 1339 1375 1796"> </div> <p>0 dB = 0.659 W/kg = -1.81 dBW/kg</p>	

**WCDMA BAND5**

FLAT(VIOCE )	Towards ground
<p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz;Duty Cycle: 1:1.95434            Medium parameters used (interpolated): f = 836.6 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TG voice M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.271 W/kg</p> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TG voice M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 17.11 V/m; Power Drift = -0.13 dB            Peak SAR (extrapolated) = 0.336 W/kg  <b>SAR(1 g) = 0.288 W/kg; SAR(10 g) = 0.171 W/kg</b>            Maximum value of SAR (measured) = 0.266 W/kg</p> <div data-bbox="220 1339 1358 1798"> </div> <p>0 dB = 0.266 W/kg = -5.75 dBW/kg</p>	



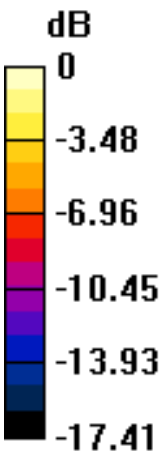
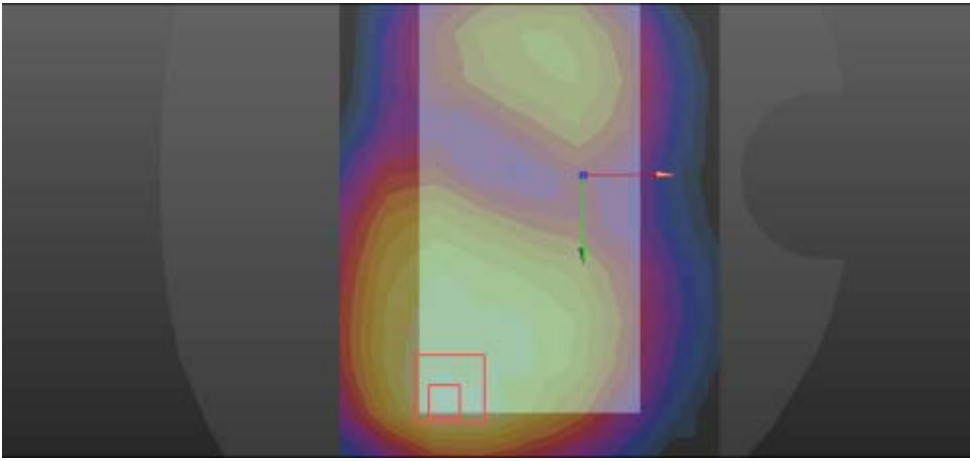
**LTE BAND2**

FLAT	Towards ground
<p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1            Medium parameters used: <math>f = 1880 \text{ MHz}</math>; <math>\sigma = 1.57 \text{ S/m}</math>; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>            Maximum value of SAR (measured) = 0.835 W/kg</p> <p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 5.922 V/m; Power Drift = 0.18 dB            Peak SAR (extrapolated) = 1.47 W/kg  <b>SAR(1 g) = 0.723 W/kg; SAR(10 g) = 0.311 W/kg</b>            Maximum value of SAR (measured) = 0.881 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -3.53 -7.06 -10.60 -14.13 -17.66</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.881 W/kg = -0.55 dBW/kg</p>	

**LTE BAND4**

FLAT	Towards ground
<p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1            Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 10/31/2016</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band4 TG/LTE band4 TG 20MHz 50RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm            Maximum value of SAR (measured) = 0.362 W/kg</p> <p><b>Flat-Section MSL LTE band4 TG/LTE band4 TG 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm            Reference Value = 5.675 V/m; Power Drift = -0.11 dB            Peak SAR (extrapolated) = 0.696 W/kg  <b>SAR(1 g) = 0.374 W/kg; SAR(10 g) = 0.166 W/kg</b>            Maximum value of SAR (measured) = 0.407 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -3.56 -7.12 -10.69 -14.25 -17.81</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.407 W/kg = -4.92 dBW/kg</p>	

**LTE BAND5**

FLAT	Towards ground
<p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.5 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.859</math>; <math>\rho = 1000</math> kg/m<sup>3</sup></p>	
<p>Phantom section: Flat Section</p>	
<p>DASY5 Configuration:</p>	
<ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 10/31/2016</li> <li>• Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band5 TG/LTE band5 TG 20BW 1RB LOW M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.279 W/kg</p> <p><b>Flat-Section MSL LTE band5 TG/LTE band5 TG 20BW 1RB LOW M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 13.95 V/m; Power Drift = 0.19 dB Peak SAR (extrapolated) = 0.645 W/kg <b>SAR(1 g) = 0.216 W/kg; SAR(10 g) = 0.082 W/kg</b> Maximum value of SAR (measured) = 0.255 W/kg</p>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0 -3.48 -6.96 -10.45 -13.93 -17.41</p> </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 0.255 W/kg = -5.93 dBW/kg</p>	

**LTE BAND7**

FLAT	Towards ground
<p>Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK);            Frequency: 2535 MHz;Duty Cycle: 1:3.74111            Medium parameters used: <math>f = 2535 \text{ MHz}</math>; <math>\sigma = 2.15 \text{ S/m}</math>; <math>\epsilon_r = 50.36</math>; <math>\rho = 1000 \text{ kg/m}^3</math>            Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 10/31/2016</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 TG/LTE band7 TG 20MHz 1RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math>            Maximum value of SAR (measured) = 0.873 W/kg</p> <p><b>Flat-Section MSL LTE band7 TG/LTE band7 TG 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math>            Reference Value = 2.567 V/m; Power Drift = 0.01 dB            Peak SAR (extrapolated) = 1.13 W/kg  <b>SAR(1 g) = 0.663 W/kg; SAR(10 g) = 0.244 W/kg</b>            Maximum value of SAR (measured) = 0.697 W/kg</p>	
<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0 -5.74 -11.48 -17.23 -22.97 -28.71</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.697 W/kg = -1.57 dBW/kg</p>	

# ANNEX B - RELEVANT PAGES FROM CALIBRATION REPORTS

DAE4 Sn:546

Calibration Laboratory of  
Schwarz & Partner  
Engineering AG  
Rugenhelmstr. 10, 85649 Puchheim, Germany

Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Client: SRTC (YIME) Certificate No.: DAE4-546\_Aug16

Reference No.: SCS 0108

### CALIBRATION CERTIFICATE

Model: DAE4 - DC-003 D04 (S1) - S1U 546

Calibration procedure(s): DA-CAL-06-v03  
Calibration procedure for the data acquisition electronics (DAE)

Calibration date: August 23, 2016

This calibration certificate documents the traceability to national standards, which define the practical units of measurement (SI). The measurement and the associated self-calibration procedure are given in the following pages and are part of the calibration.

All calibrations have been conducted in the calibration laboratory facility, environmental conditions (23 ± 0.5°C and humidity < 10%).

Calibration Equipment used (SAS IT) unless for reference:

Primary Standards	SI Unit	SI Date (Certificate No.)	Secondary Calibration
Resolving Resistance	Ω	2015/03/19	2015/03/19
Resistance Standards	Ω	2015/03/19	2015/03/19
Auto-Zero Compensation	Ω	2015/03/19	2015/03/19
Calibration by SI Unit	Ω	2015/03/19	2015/03/19

Calibration by: Name: [Signature] Position: [Signature]

Approved by: [Signature] Quality Technical Manager

Issue Date: August 23, 2016

Certificate No.: DAE4-546\_Aug16 Page 1 of 5

Calibration Laboratory of  
Schwarz & Partner  
Engineering AG  
Rugenhelmstr. 10, 85649 Puchheim, Germany

Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Reference No.: SCS 0108

### Glossary

DAE: data acquisition electronics  
DAE Connector angle: information used in DASY system to align probe sensor X to the robot coordinate system.

### Methods Applied and Interpretation of Parameters

- DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
  - DC Voltage Measurement Linearity: Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
  - Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement.
  - Channel separation: Influence of a voltage on the neighbor channels not subject to an input voltage.
  - AD Converter Values with inputs shorted: Values on the internal AD converter corresponding to zero input voltage.
  - Input Offset Measurement: Output voltage and statistical results over a large number of zero voltage measurements.
  - Input Offset Current: Typical value for information; Maximum channel input offset current, not considering the input resistance.
  - Input resistance: Typical value for information; DAE input resistance at the connector, during internal auto-zeroing and during measurement.
  - Low Battery Alarm Voltage: Typical value for information; Below this voltage, a battery alarm signal is generated.
  - Power consumption: Typical value for information; Supply currents in various operating modes.

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### Appendix (Additional assessments outside the scope of SCS0108)

#### 1. DC Voltage Linearity

High Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	200031.74	-2.15	-0.00
Channel X + Input	20003.66	-0.75	-0.00
Channel X - Input	-20001.88	3.77	-0.02
Channel Y + Input	200021.10	-12.53	-0.01
Channel Y + Input	20002.22	-2.15	-0.01
Channel Y - Input	-20003.78	1.88	-0.01
Channel Z + Input	200025.91	-7.99	-0.00
Channel Z + Input	19999.97	-4.36	-0.02
Channel Z - Input	-20005.55	0.07	-0.00

Low Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	2000.62	-0.12	-0.01
Channel X + Input	201.00	0.23	0.11
Channel X - Input	-198.76	0.38	-0.19
Channel Y + Input	2000.36	-0.29	-0.01
Channel Y + Input	200.22	-0.57	-0.29
Channel Y - Input	-200.24	-0.93	0.47
Channel Z + Input	2000.61	0.13	0.01
Channel Z + Input	199.06	-1.52	-0.76
Channel Z - Input	-201.43	-1.99	1.00

#### 2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Common mode Input Voltage (mV)	High Range Average Reading (µV)	Low Range Average Reading (µV)
Channel X	1.49	0.15
	1.41	-0.23
Channel Y	-0.40	-0.13
	-1.08	-1.50
Channel Z	2.19	2.17
	-4.93	-4.90

#### 3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input Voltage (mV)	Channel X (µV)	Channel Y (µV)	Channel Z (µV)
Channel X	200	-3.01	-3.43
Channel Y	200	9.77	-1.00
Channel Z	200	5.39	7.00

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#### 4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	15845	15842
Channel Y	16150	14493
Channel Z	15907	16531

#### 5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec; Input: 10mΩ

	Average (µV)	min. Offset (µV)	max. Offset (µV)	Std. Deviation (µV)
Channel X	1.22	0.21	1.94	0.35
Channel Y	0.27	-1.07	1.43	0.50
Channel Z	-0.65	-1.46	0.11	0.35

#### 6. Input Offset Current

Normal input circuitry offset current on all channels: <25fA

#### 7. Input Resistance (Typical values for information)

	Zeroing (MΩ)	Measuring (MΩ)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

#### 8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

#### 9. Power Consumption (Typical values for information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9

Certificate No.: DAE4-546\_Aug16 Page 5 of 5

DAE4 Sn:546

4. AD-Converter Values with inputs shorted  
DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	15845	16442
Channel Y	16150	14493
Channel Z	15907	16531

5. Input Offset Measurement  
DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec  
Input: 10mV

	Average ( $\mu$ V)	min. Offset ( $\mu$ V)	max. Offset ( $\mu$ V)	Std. Deviation ( $\mu$ V)
Channel X	1.22	0.21	1.94	0.35
Channel Y	0.27	-1.07	1.43	0.50
Channel Z	-0.65	-1.46	0.11	0.35

6. Input Offset Current  
Nominal input circuitry offset current on all channels: <math>-25\mu A</math>

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

9. Power Consumption (Typical values for information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9

Certificate No: DAE4-546\_Aug16 Page 5 of 5

DAE4 Sn:720

Calibration Laboratory of  
Schnitz & Partner  
Engineering AG  
Schnitzstrasse 14, 89611 Isenhausen, Germany

Accreditation No.: SCS 0166  
The Swiss Accreditation Service (SAS) is a member of the ILAC Mutual Recognition Arrangement for the recognition of calibration certificates.

Client: SRTC (Yiwu) Article No.: DAE4-720\_S016

### CALIBRATION CERTIFICATE

Item: DAE4 - CD 000 D04 (SN: 546-720)

Calibration procedure: GA CAL-DE v3.0  
Calibration procedure for the data acquisition electronics (DAE)

Calibration date: October 31, 2016

This calibration certificate documents the traceability to national standards, which realize the physical units of International SI. The measurements and the uncertainties are given on the related pages and are not of the certificate.

All calibrations have been conducted in the stated laboratory facility, environmental temperature (20 ± 0.1°C) and humidity <math>\le 50\%</math>.

Calibration Equipment used (DASY) verified for calibration:

Primary Standard	SI U.	Cal Date (Certificate No.)	Expiry Date
Reference Resistance 1.001 001	$\Omega$	06/04/2016 (04/04/16)	May 17

Secondary Standard	SI U.	Cal Date (Certificate No.)	Expiry Date
Auto DAE Calibration Unit	DC Vrms (200 AHz 100)	06/04/2016 (04/04/16)	05/04/2017 (04/17)
Calibration Box (S)	DC Vrms (200 AHz 100)	06/04/2016 (04/04/16)	05/04/2017 (04/17)

Calibrated by: Name: Dominik Walter, Position: Technician, Signature: [Signature]

Reviewed by: Name: [Name], Position: Deputy Technical Manager, Signature: [Signature]

This calibration certificate shall not be reproduced without the written approval of the laboratory.

Certificate No: 12424-720\_S016 Page 1 of 3

DAE4 Sn:720

Calibration Laboratory of  
Schmid & Partner  
Engineering AG  
Am Flughafen 10, 8200 Grenchen, Switzerland

ISO-9001  
ISO-17025

Schweizerischer Kalibrierdienst  
Service across all languages  
Service nationwide in multiple  
Service Calibration Service

Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

**Glossary**  
DAE: data acquisition electronics  
Connector angle: Information used in DASY system to align probe sensor X to the robot coordinate system.

- Methods Applied and Interpretation of Parameters**
- DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
  - Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
  - The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
    - DC Voltage Measurement Linearity: Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
    - Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement.
    - Channel separation: Influence of a voltage on the neighbor channels not subject to an input voltage.
    - AD Converter Values with inputs shorted: Values on the internal AD converter corresponding to zero input voltage.
    - Input Offset Measurement: Output voltage and statistical results over a large number of zero voltage measurements.
    - Input Offset Current: Typical value for information; Maximum channel input offset current, not considering the input resistance.
    - Input resistance: Typical value for information; GAE input resistance at the connector, during internal auto-ranging and during measurement.
    - Low Battery Alarm Voltage: Typical value for information. Below this voltage, a battery alarm signal is generated.
    - Power consumption: Typical value for information. Supply currents in various operating modes.

**DC Voltage Measurement**

AD-Converter Resolution nominal  
High Range: 11.991 ± 4 µV full range: -100...+300 mV  
Low Range: 11.991 ± 4 µV full range: -1...+300 mV  
DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	403.000 ± 0.02% (k=2)	404.700 ± 0.02% (k=2)	411.200 ± 0.02% (k=2)
Low Range	2.6000 ± 1.00% (k=2)	2.5900 ± 1.00% (k=2)	2.5800 ± 1.00% (k=2)

**Connector Angle**

Connector Angle to be used in DASY system	33.0° ± 1°
---	------------

Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	20000.00	-2.83	-0.00
Channel X + Input	20005.59	1.21	0.01
Channel X - Input	-20002.63	2.74	-0.01
Channel Y + Input	20001.46	-1.44	-0.00
Channel Y + Input	20003.49	-0.90	-0.00
Channel Y - Input	-20003.62	1.72	-0.01
Channel Z + Input	20000.86	-1.63	-0.00
Channel Z + Input	20001.58	-2.67	-0.01
Channel Z - Input	-20009.93	-4.50	0.02

Low Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	1999.86	-0.99	-0.05
Channel X + Input	200.42	-0.42	-0.21
Channel X - Input	-199.45	-0.24	0.12
Channel Y + Input	2000.78	-0.01	-0.00
Channel Y + Input	200.66	-0.06	-0.03
Channel Y - Input	-199.50	-0.26	0.14
Channel Z + Input	2000.45	-0.29	-0.01
Channel Z + Input	199.41	-1.33	-0.66
Channel Z - Input	-200.21	-0.92	0.46

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Common mode Input Voltage (mV)	High Range Average Reading (µV)	Low Range Average Reading (µV)
Channel X	200	-2.59
	-200	7.16
Channel Y	200	15.89
	-200	-16.62
Channel Z	200	-16.19
	-200	14.56

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input Voltage (mV)	Channel X (µV)	Channel Y (µV)	Channel Z (µV)
Channel X	200	-	0.26
		8.74	-
Channel Y	200		0.77
		6.36	-
Channel Z	200		7.07
			-

4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	16156	16521
Channel Y	16178	16048
Channel Z	16424	15774

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec  
Input 10mA

	Average (µV)	min. Offset (µV)	max. Offset (µV)	Std. Deviation (µV)
Channel X	0.75	-1.14	2.77	0.62
Channel Y	-0.03	-1.04	0.90	0.43
Channel Z	-0.18	-2.07	1.75	0.69

6. Input Offset Current

Nominal input circuitry offset current on all channels: <25nA

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

9. Power Consumption (Typical values for information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9





ES3DV3 Sn:3127

ES3DV3- SN:3127 August 29, 2016

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3127

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) <sup>c</sup>	Relative Permittivity <sup>a</sup>	Conductivity (S/m) <sup>a</sup>	Conf X	Conf Y	Conf Z	Alpha <sup>b</sup>	Depth <sup>b</sup> (mm)	Unc (k=2)
450	43.5	0.87	6.74	6.74	6.74	0.21	2.30	± 13.3 %
750	41.9	0.89	6.65	6.55	6.55	0.62	1.37	± 12.0 %
900	41.5	0.97	6.20	6.20	6.20	0.54	1.41	± 12.0 %
1450	40.5	1.20	5.44	5.44	5.44	0.80	1.06	± 12.0 %
1810	40.0	1.40	5.15	5.15	5.15	0.80	1.16	± 12.0 %
2000	40.0	1.40	5.11	5.11	5.11	0.68	1.28	± 12.0 %
2300	39.5	1.67	4.83	4.83	4.83	0.80	1.19	± 12.0 %
2450	39.2	1.80	4.61	4.61	4.61	0.67	1.36	± 12.0 %
2600	39.0	1.96	4.40	4.40	4.40	0.70	1.36	± 12.0 %

<sup>c</sup> Frequency validity above 300 MHz of a 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to a 50 MHz. The uncertainty is the RSS of the Conf<sup>2</sup> uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is a 10, 20, 40, 50 and 70 MHz for Conf<sup>2</sup> assessments at 30, 64, 128, 150 and 200 MHz respectively. Above 5 GHz frequency validity can be extended to a 100 MHz.

<sup>a</sup> At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be related to a 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to a 5%. The uncertainty is the RSS of the Conf<sup>2</sup> uncertainty for indicated target tissue parameters.

<sup>b</sup> Alpha/Depth are determined during calibration. SREAC warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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ES3DV3- SN:3127 August 29, 2016

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3127

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) <sup>c</sup>	Relative Permittivity <sup>a</sup>	Conductivity (S/m) <sup>a</sup>	Conf X	Conf Y	Conf Z	Alpha <sup>b</sup>	Depth <sup>b</sup> (mm)	Unc (k=2)
450	56.7	0.94	6.99	6.99	6.99	0.12	2.10	± 13.3 %
750	55.5	0.96	6.12	6.12	6.12	0.80	1.14	± 12.0 %
900	55.0	1.05	6.16	6.16	6.16	0.66	1.53	± 12.0 %
1450	54.0	1.30	5.29	5.29	5.29	0.74	1.21	± 12.0 %
1810	53.3	1.52	4.90	4.90	4.90	0.43	1.69	± 12.0 %
2000	53.3	1.52	4.92	4.92	4.92	0.55	1.48	± 12.0 %
2300	52.9	1.61	4.63	4.63	4.63	0.80	1.24	± 12.0 %
2450	52.7	1.95	4.36	4.36	4.36	0.71	1.22	± 12.0 %
2600	52.5	2.16	4.17	4.17	4.17	0.80	1.11	± 12.0 %

<sup>c</sup> Frequency validity above 300 MHz of a 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to a 50 MHz. The uncertainty is the RSS of the Conf<sup>2</sup> uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is a 10, 20, 40, 50 and 70 MHz for Conf<sup>2</sup> assessments at 30, 64, 128, 150 and 200 MHz respectively. Above 5 GHz frequency validity can be extended to a 100 MHz.

<sup>a</sup> At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be related to a 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to a 5%. The uncertainty is the RSS of the Conf<sup>2</sup> uncertainty for indicated target tissue parameters.

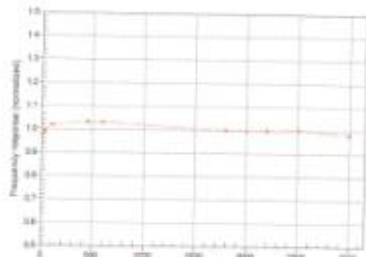
<sup>b</sup> Alpha/Depth are determined during calibration. SREAC warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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Frequency Response of E-Field  
(TEM-Cal:0110 EXL, Waveguide: R22)



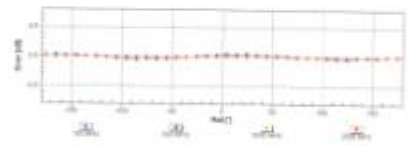
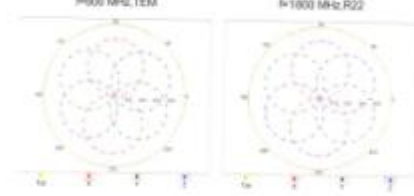
Uncertainty of Frequency Response of E-Field: 4.4, 6%, (k=2)

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ES3DV3- SN:3127 August 16, 2016

Receiving Pattern (φ), θ = 0°

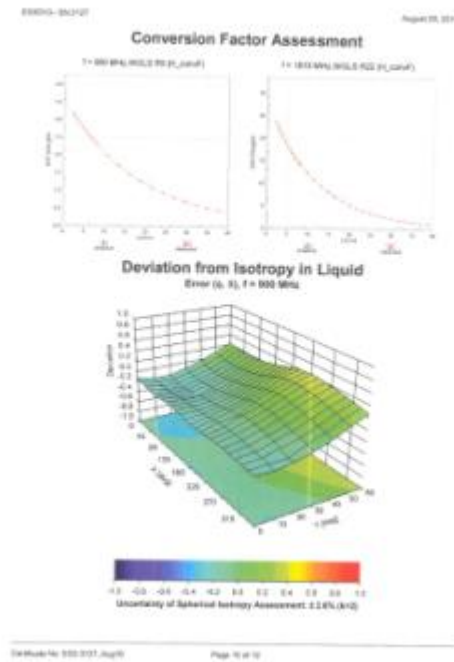
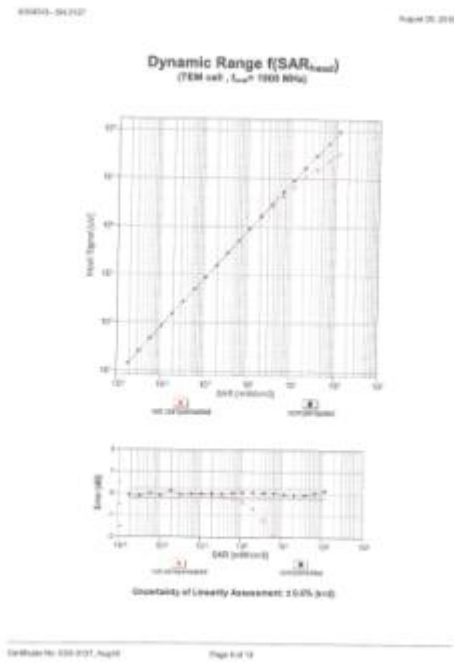


Uncertainty of Aerial Sensitivity Assessment: 1.52% (k=2)

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ES3DV3 Sn:3127



ES3DV3 - SN:3127 August 29, 2016

**DASY/EASY - Parameters of Probe: ES3DV3 - SN:3127**

Other Probe Parameters	
Sensor Arrangement	Triangular
Connector Angle (°)	-15.8
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	4 mm
Probe Tip to Sensor X Calibration Point	2 mm
Probe Tip to Sensor Y Calibration Point	2 mm
Probe Tip to Sensor Z Calibration Point	2 mm
Recommended Measurement Distance from Surface	3 mm

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ES3DV3 - SN:3127 August 29, 2016

**Appendix: Modulation Calibration Parameters**

UID	Communication System Name	A dB	B dB $\cdot$ V/V	C	D dB	VR mV	Unc <sup>1</sup> (k=2)
0	CW	X	0.0	0.0	1.0	0.00	209.2 ±3.3 %
		Y	0.0	0.0	1.0	0.00	213.8
		Z	0.0	0.0	1.0	0.00	202.7
10012-CAR	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	3.29	71.4	20.2	1.87	125.8 ±0.7 %
		Y	2.75	67.3	17.9	1.99	129.9
		Z	3.10	70.4	19.7	1.90	130.2
10108-CAC	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	6.43	67.7	20.1	5.60	137.9 ±1.4 %
		Y	6.43	67.5	19.7	5.60	144.6
		Z	6.38	67.6	20.0	5.60	131.5
10115-CAC	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	6.17	67.4	20.0	5.75	134.4 ±1.4 %
		Y	6.14	67.0	19.6	5.60	141.5
		Z	6.02	67.0	19.7	5.60	128.3
10154-CAC	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	6.13	67.3	19.8	5.75	133.5 ±1.2 %
		Y	6.19	67.3	19.8	5.60	140.3
		Z	6.04	67.1	19.8	5.60	128.2
10166-CAR	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	5.00	66.8	19.8	5.73	117.2 ±0.9 %
		Y	5.04	66.9	19.7	5.60	120.3
		Z	4.89	66.5	19.7	5.60	111.8
10175-CAC	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	4.87	66.6	19.7	5.72	117.2 ±0.9 %
		Y	4.93	66.3	19.4	5.60	122.2
		Z	4.87	66.5	19.6	5.60	111.6
10207-AAA	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	6.51	68.0	20.3	5.81	137.1 ±1.4 %
		Y	6.46	67.6	19.9	5.60	140.9
		Z	6.37	67.6	20.0	5.60	130.4

<sup>1</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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EX3DV4 Sn:3708

SRTC2017-9004(F)-17101001-1 November 10, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3708

Calibration Parameter Determined in Head Tissue Simulating Media

Frequency (MHz)	Relative Phase Error (dB)	Gain Error (dB)	Const. E (dB)	Const. F (dB)	Const. G (dB)	Alpha <sup>2</sup> (dB)	Gain Error (dB)	Unc. (dB)
300	-1.2	0.17	0.00	0.00	0.00	0.44	0.00	± 0.2 %
1000	-0.2	1.40	7.04	7.04	7.04	0.36	0.00	± 0.2 %
3000	-0.2	1.40	7.09	7.09	7.09	0.37	0.00	± 0.2 %
10000	-0.2	1.38	7.14	7.14	7.14	0.38	0.00	± 0.2 %
30000	-0.2	-4.78	5.53	5.53	5.53	0.38	1.00	± 0.2 %
100000	-0.2	-4.78	5.50	5.51	5.51	0.40	1.00	± 0.2 %
300000	-0.2	4.89	5.00	5.00	5.00	0.40	1.00	± 0.2 %
1000000	-0.2	5.07	4.91	4.91	4.91	0.40	1.00	± 0.2 %
3000000	-0.2	5.27	4.81	4.81	4.81	0.40	1.00	± 0.2 %

<sup>1)</sup> Frequency range above 300 MHz up to 3 GHz only applies for (EMF) not a workplace (see Page 1). Also it is restricted to 10 MHz. The uncertainty in the E-field of the Coeff. uncertainty at calibration frequency and the uncertainty in the received frequency range. Frequency range below 300 MHz up to 30, 30, 40, 50 and 100 MHz for Coeff. uncertainty at 30, 30, 30, 30 and 100 MHz respectively. Below 3 GHz frequency range only can be restricted to ± 0.2 dB.

<sup>2)</sup> Frequency below 3 GHz, the validity of these parameters is not to be used in a 1% of frequency range below is applied to frequency range below 3 GHz. At frequency above 3 GHz, the validity of these parameters is not to be used in a 1%. The uncertainty in the E-field of the Coeff. uncertainty for individual legal tissue samples.

<sup>3)</sup> Frequency and uncertainty range (EMF) 100% applies for the frequency range up to the accuracy effect after compensation in phase and time. 1% for frequency below 10 MHz and below a 1% for frequency range 10 MHz to any higher range. The uncertainty is based on the accuracy.

SRTC2017-9004(F)-17101001-1 November 10, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3708

Calibration Parameter Determined in Body Tissue Simulating Media

Frequency (MHz)	Relative Phase Error (dB)	Gain Error (dB)	Const. E (dB)	Const. F (dB)	Const. G (dB)	Alpha <sup>2</sup> (dB)	Gain Error (dB)	Unc. (dB)
300	-1.2	0.05	0.00	0.00	0.00	0.44	0.00	± 0.2 %
1000	-0.2	1.32	7.79	7.79	7.79	0.46	0.00	± 0.2 %
3000	-0.2	1.52	7.71	7.71	7.71	0.43	0.00	± 0.2 %
10000	-0.2	1.89	7.67	7.67	7.67	0.40	0.00	± 0.2 %
30000	-0.2	0.24	4.82	4.82	4.82	0.40	1.00	± 0.2 %
100000	-0.2	0.42	4.87	4.87	4.87	0.40	1.00	± 0.2 %
300000	-0.2	0.60	4.97	4.97	4.97	0.40	1.00	± 0.2 %
1000000	-0.2	0.77	4.95	4.95	4.95	0.40	1.00	± 0.2 %
3000000	-0.2	0.90	4.83	4.83	4.83	0.40	1.00	± 0.2 %

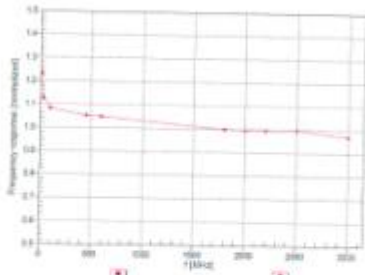
<sup>1)</sup> Frequency range above 300 MHz up to 3 GHz only applies for (EMF) not a workplace (see Page 1). Also it is restricted to 10 MHz. The uncertainty in the E-field of the Coeff. uncertainty at calibration frequency and the uncertainty in the received frequency range. Frequency range below 300 MHz up to 30, 30, 40, 50 and 100 MHz for Coeff. uncertainty at 30, 30, 30, 30 and 100 MHz respectively. Below 3 GHz frequency range only can be restricted to ± 0.2 dB.

<sup>2)</sup> Frequency below 3 GHz, the validity of these parameters is not to be used in a 1% of frequency range below is applied to frequency range below 3 GHz. At frequency above 3 GHz, the validity of these parameters is not to be used in a 1%. The uncertainty in the E-field of the Coeff. uncertainty for individual legal tissue samples.

<sup>3)</sup> Frequency and uncertainty range (EMF) 100% applies for the frequency range up to the accuracy effect after compensation in phase and time. 1% for frequency below 10 MHz and below a 1% for frequency range 10 MHz to any higher range. The uncertainty is based on the accuracy.

SRTC2017-9004(F)-17101001-1 November 10, 2016

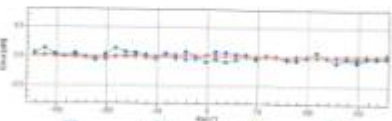
Frequency Response of E-Field  
(TEM-Coil:R110 EX4, Waveguide: R22)



Uncertainty of Frequency Response of E-Field: ± 0.2% (k=2)

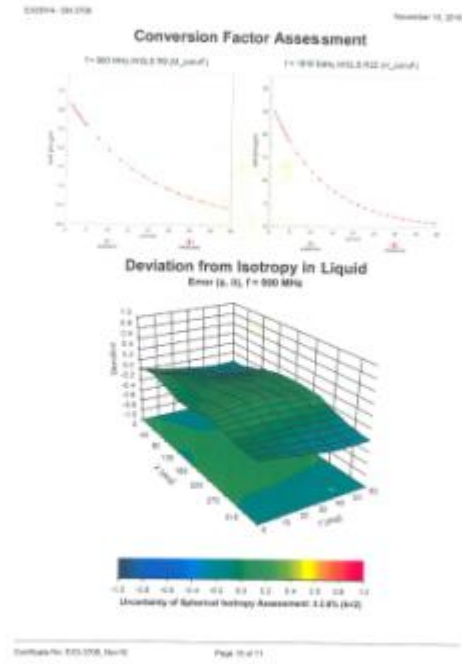
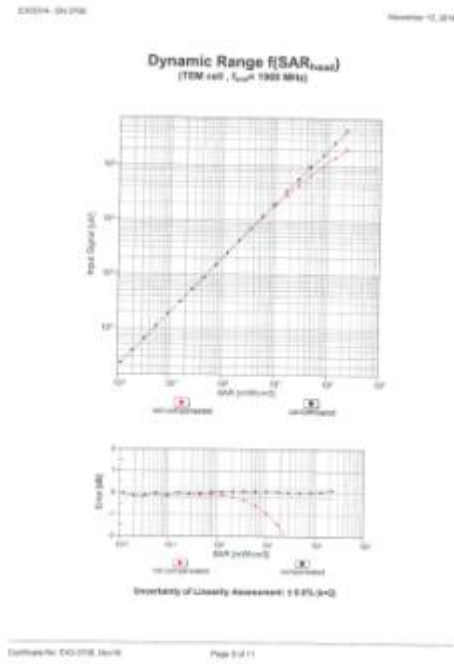
SRTC2017-9004(F)-17101001-1 November 10, 2016

Receiving Pattern (θ), θ = 0°



Uncertainty of Axial Isotropy Assessment: ± 0.2% (k=2)

EX3DV4 Sn:3708



EX3DV4 - SN:3708 November 10, 2016

**DASY/EASY - Parameters of Probe: EX3DV4 - SN:3708**

Other Probe Parameters	
Sensor Arrangement	Triangular
Connector Angle (°)	-1.9
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

D750V3 Sn:1101

Calibration Laboratory of  
Spectrum & Pattern  
Engineering AG  
Südkorfbühlweg 43, 85344 Garching, Deutschland

**SGS** **SGS**  
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Confederation Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client: **SRTC (VME)** Certificate No.: **D750V3-1101\_Oct18**

**CALIBRATION CERTIFICATE**

Name: **D750V3 - Sn:1101**

Calibration procedure: **Q4-CAL-05-06  
Calibration procedure for dipole validation lists above 700 MHz**

Calibration date: **October 31, 2018**

The calibration certificate documents the feasibility to deliver standards, which realize the SI units of measurements (SI)  
The measurement and the uncertainty with confidence probability are given in the following pages-attachment of the certificate.

All calibration had been conducted in the client laboratory facility, government accreditation (DIN EN ISO 9001:2015) + VDE.

Calibration Equipment used (NIST) unless for options:

Primary Standards	SI	Ref. Date (Certificate No.)	Expiration (Certificate)
Power meter NRP	SW 10070	08-Apr-18 (No. 211-00000004)	Apr-17
Power sensor NRP 20	SW 10074	08-Apr-18 (No. 011-000000)	Apr-17
Power sensor NRP 20	SW 10076	08-Apr-18 (No. 011-000000)	Apr-17
Reference cell 40-40-0-0-0	SW 3008 (20)	02-Apr-18 (No. 211-000000)	Apr-17
Uncertainty evaluation	SW 3007 J - 0007	02-Apr-18 (No. 211-000000)	Apr-17
Reference plane 220/20	SW 700	16-Jul-18 (No. 100-0000_0418)	Jul-17
DAF	SW 907	08-Apr-18 (No. 100-0000_10418)	Dec-16

Secondary Standards	SI	Check Date (in report)	Expiration (Check)
Power meter (100-000)	SW 10070/0070	07-Oct-18 (100-0000-000-00)	10-Nov-18 (100-0000-000-00)
Power sensor (100-000)	SW 10074/0070	07-Oct-18 (100-0000-000-00)	10-Nov-18 (100-0000-000-00)
Power sensor (100-000)	SW 10076/0070	07-Oct-18 (100-0000-000-00)	10-Nov-18 (100-0000-000-00)
Reference plane (100-000)	SW 10070	16-Jul-18 (100-0000-000-00)	10-Nov-18 (100-0000-000-00)
Reference plane (100-000)	SW 10074/0070	16-Jul-18 (100-0000-000-00)	10-Nov-18 (100-0000-000-00)

Customer: **SRTC (VME)** Position: **Germany (Garching)** Signature: *[Signature]*

Remarks: **None** Technical Manager: *[Signature]*

This calibration certificate shall not be reproduced without the approval of the Laboratory. Issue: 10/30/18 08:30:19

Certificate No.: D750V3-1101\_2018 Page 1 of 8

Calibration Laboratory of  
Spectrum & Pattern  
Engineering AG  
Südkorfbühlweg 43, 85344 Garching, Deutschland

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Confederation Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client: **SRTC (VME)** Certificate No.: **D750V3-1101\_Oct18**

**Glossary:**  
TSL: **Power simulating liquid**  
Cone/F: **sensitivity in TSL: 1 (NORM) e.g. 3**  
N/A: **not applicable or not measured**

**Calibration is Performed According to the Following Standards:**

- IEEE Std 1599-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices Measurement Techniques", June 2013
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDS 850064, "SAR Measurement Requirements for 100 MHz to 6 GHz"

**Additional Documentation:**

- DASY4S System Handbook

**Methods Applied and Interpretation of Parameters:**

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer in position its feed point exactly below the center-marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna terminals.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No.: D750V3-1101\_2018 Page 2 of 8

**Measurement Conditions**  
TSLT System configuration, as per the TSLT-0101-01-0001

TSLT Version	DASY5	V5.8.9
Exposure	Averaged Distribution	
Phantom	Mobile Fat Phantom	
Distance Dipole Center - TSL	10 mm	with spacer
Spacer Scan Resolution	0.5 mm	
Frequency	750 MHz ± 1 MHz	

**Head TSL parameters**  
The following parameters and calculations were applied:

Parameter	Temperature	Permittivity	Conductivity
Measured Head TSL parameters	22.0 °C	41.8	0.00 mho/m
Measured Head TSL parameters	22.0 ± 0.5 °C	41.7 ± 0.5 %	0.00 mho/m ± 0 %
Head TSL temperature change during test	+ 0.5 °C	—	—

**SAR result with Head TSL**

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	200 mW input power	0.17 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	0.34 W/kg ± 17.8 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	Condition	
SAR measured	200 mW input power	1.38 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	0.34 W/kg ± 16.9 % (k=2)

**Body TSL parameters**  
The following parameters and calculations were applied:

Parameter	Temperature	Permittivity	Conductivity
Measured Body TSL parameters	22.0 °C	43.8	0.00 mho/m
Measured Body TSL parameters	22.0 ± 0.5 °C	43.8 ± 0.5 %	0.00 mho/m ± 0 %
Body TSL temperature change during test	+ 0.5 °C	—	—

**SAR result with Body TSL**

SAR averaged over 1 cm <sup>3</sup> (1 g) of Body TSL	Condition	
SAR measured	200 mW input power	0.17 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	0.40 W/kg ± 17.8 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Body TSL	Condition	
SAR measured	200 mW input power	1.40 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	0.40 W/kg ± 16.9 % (k=2)

Certificate No.: D750V3-1101\_2018 Page 3 of 8

**Appendix (Additional assessments outside the scope of SCS 0108)**

**Antenna Parameters with Head TSL**

Impedance, transformed to feed point	33.4 Ω ± 1.2 Ω
Return Loss	≥ 21.8 dB

**Antenna Parameters with Body TSL**

Impedance, transformed to feed point	33.4 Ω ± 1.2 Ω
Return Loss	≥ 21.8 dB

**General Antenna Parameters and Design**

Electrical Delay (one-direction)	1.028 ns
----------------------------------	----------

After being terminated with N50W reflector power, only a slight warping of the dipole near the feedpoint can be measured.

The dipole is made of stainless steel (typical) tubing. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore always connected to DC-voltage. On some of the dipoles, small wire loops are soldered to the dipole arms in order to improve matching when needed according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No uncertainties have to be applied to the dipole arms, because they are rigid and to the adapted connectors near the feedpoint may be damaged.

**Additional EUT Data:**

Manufactured by	SPTAG
Manufactured on	July 05, 2018

Certificate No.: D750V3-1101\_2018 Page 4 of 8

D750V3 Sn:1101

DASY5 Validation Report for Head TSL

Date: 24.10.2016

Test Laboratory: IPFAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - 8N:1101

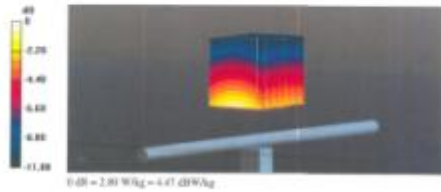
Communication System: UED 0 - CW; Frequency: 750 MHz  
Medium parameters used:  $f = 750 \text{ MHz}$ ;  $n = 0.92 \text{ S/m}$ ;  $\epsilon = 41$ ;  $\rho = 0.0004 \text{ g/cm}^3$   
Phantom section: Flat Section  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EXODV4 - INT4R; CaseF(1017, 1017, 1017); Calibrated: 11.06.2016
- Sensor Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DASA 3601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 4 HL; Type: Q000P00AA; Serial: 1001
- DASY5: 52.8.93.250; SEMCAD X 14.6.00(172)

Dipole Calibration for Head Tissue/Pos=250 mW, d=15mm/Z-axis Scan (7x7x7)/Cube fit

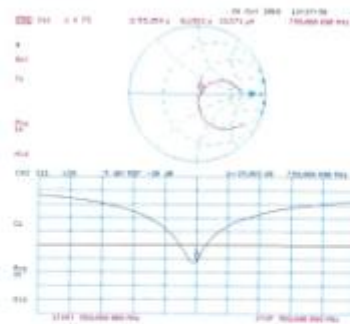
Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 30.03 V/m; Power Dens = 0.00 dB  
Peak SAR (extrapolated) = 2.14 W/kg  
SAR(1g) = 2.11 W/kg; SAR(10g) = 1.38 W/kg  
Maximum value of SAR (measured) = 2.80 W/kg



Certificate No: D750V3-1101\_2016

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Impedance Measurement Plot for Head TSL



Certificate No: D750V3-1101\_2016

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DASY5 Validation Report for Body TSL

Date: 24.10.2016

Test Laboratory: IPFAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - 8N:1101

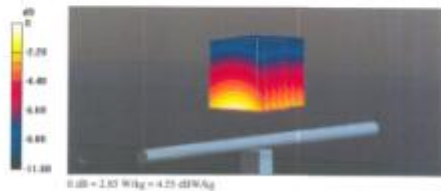
Communication System: UED 0 - CW; Frequency: 750 MHz  
Medium parameters used:  $f = 750 \text{ MHz}$ ;  $n = 0.97 \text{ S/m}$ ;  $\epsilon = 25.6$ ;  $\rho = 0.0004 \text{ g/cm}^3$   
Phantom section: Flat Section  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EXODV4 - INT4R; CaseF(919, 919, 919); Calibrated: 11.06.2016
- Sensor Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DASA 3601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 4 HL; Type: Q000P00AA; Serial: 1001
- DASY5: 52.8.93.250; SEMCAD X 14.6.00(172)

Dipole Calibration for Body Tissue/Pos=250 mW, d=15mm/Z-axis Scan (7x7x7)/Cube fit

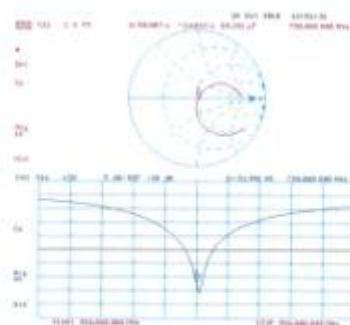
Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 36.73 V/m; Power Dens = 0.00 dB  
Peak SAR (extrapolated) = 2.19 W/kg  
SAR(1g) = 2.17 W/kg; SAR(10g) = 1.44 W/kg  
Maximum value of SAR (measured) = 2.85 W/kg



Certificate No: D750V3-1101\_2016

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Impedance Measurement Plot for Body TSL



Certificate No: D750V3-1101\_2016

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D835V2 Sn:4d023

DASY5 Validation Report for Head TSL

Date: 24.10.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole K35 MHz; Type: D835V2; Serial: D835V2 - SN-44823

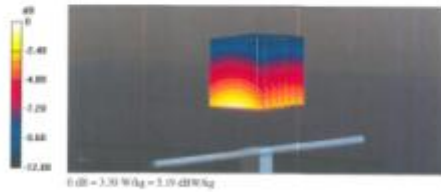
Communication System: UED 0 - CW; Frequency: 835 MHz;  
Medium parameters used:  $f = 835 \text{ MHz}$ ,  $n = 0.99$ ,  $\sigma = 40 \text{ S}$ ,  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Measurement Standard: DASY5 (IEEE/IEC/ANSI CS3.19-2011)

DASY5 Configuration:

- Probe: EXD1V4 - INT346; Coord: 9.75, 9.75; Calibrated: 11.06.2016
- Sensor Surface: 1 Area (Mechanical Surface Detection)
- Electronics: DASA 5e01L; Calibrated: 30.12.2015
- Phantom: Flat Phantom 4.0L; Type: Q000P93AA; Serial: 1001
- DASY5: 52.8.9.1291; SEMCAD X (4.6.100372)

Dipole Calibration for Head Tissue/Plas=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube fit

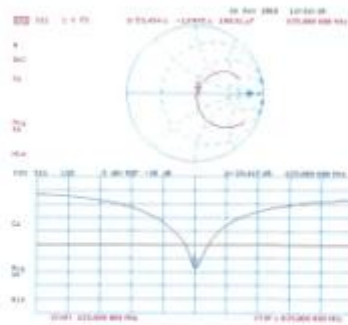
Measurement grid:  $d_x=5\text{mm}$ ,  $d_y=5\text{mm}$ ,  $d_z=5\text{mm}$   
Reference Value = 61.72 V/m; Power Dens = 0.03 dB  
Peak SAR (extrapolated) = 3.72 W/kg  
SAR(1g) = 2.47 W/kg; SAR(10g) = 1.09 W/kg  
Maximum value of SAR (measured) = 3.10 W/kg



Certificate No.: 088305-4802\_0216

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Impedance Measurement Plot for Head TSL



Certificate No.: 088305-4802\_0216

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DASY5 Validation Report for Body TSL

Date: 24.10.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole K35 MHz; Type: D835V2; Serial: D835V2 - SN-44823

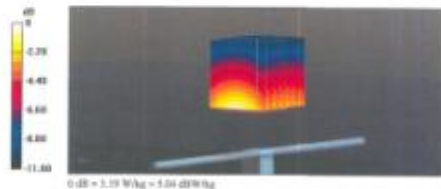
Communication System: UED 0 - CW; Frequency: 835 MHz;  
Medium parameters used:  $f = 835 \text{ MHz}$ ,  $n = 0.99$ ,  $\sigma = 15 \text{ S}$ ,  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Measurement Standard: DASY5 (IEEE/IEC/ANSI CS3.19-2011)

DASY5 Configuration:

- Probe: EXD1V4 - INT346; Coord: 9.75, 9.75; Calibrated: 11.06.2016
- Sensor Surface: 1 Area (Mechanical Surface Detection)
- Electronics: DASA 5e01L; Calibrated: 30.12.2015
- Phantom: Flat Phantom 4.0L; Type: Q000P93AA; Serial: 1001
- DASY5: 52.8.9.1291; SEMCAD X (4.6.100372)

Dipole Calibration for Body Tissue/Plas=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube fit

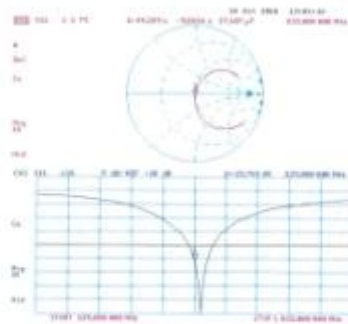
Measurement grid:  $d_x=5\text{mm}$ ,  $d_y=5\text{mm}$ ,  $d_z=5\text{mm}$   
Reference Value = 39.07 V/m; Power Dens = 0.01 dB  
Peak SAR (extrapolated) = 3.70 W/kg  
SAR(1g) = 2.44 W/kg; SAR(10g) = 1.08 W/kg  
Maximum value of SAR (measured) = 3.10 W/kg



Certificate No.: 088305-4802\_0216

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Impedance Measurement Plot for Body TSL



Certificate No.: 088305-4802\_0216

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D1900V2 Sn:5d113

Calibration Laboratory of Schmid & Partner Engineering AG  
Im Hofacker 10, 8001 Zurich, Switzerland

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Administrative Reference No.: SCS 0108

Certificate No.: D1900V2-0d113\_0d118

### CALIBRATION CERTIFICATE

Client: D1900V2 - SN:5d113

Calibration procedure: QA CAL\_25\_V9  
Calibration procedure for dipole calibration kit, above 100 MHz

Calibration date: October 31, 2018

This certificate certifies the conformity to national standards, which define the physical units of measurements (SI). The measurements and the uncertainties are certified, possibly and given on the following pages with use part of the certificate.

All calibrations have been conducted in the ISO 17025 certified environment (temperature (20 ± 0.2) °C) with uncertainty ± 1%.

Calibration equipment used (MPE) unless for calibration:

Process Parameter	Unit	Test Date (Certificate No.)	Subsequent Calibration
Power meter HP	dB	09/18/17	08-Apr-18 (No. 211-02000000)
Power sensor HP 8431A	dB	10/23/16	08-Apr-18 (No. 211-02000000)
Power sensor HP 8431	dB	10/23/16	08-Apr-18 (No. 211-02000000)
Reference HP 8431	dB	10/23/16	08-Apr-18 (No. 211-02000000)
Type of impedance combination	dB	09/18/17	08-Apr-18 (No. 211-02000000)
Calibration Probe 8431A	dB	10/23/16	08-Apr-18 (No. 211-02000000)
Impedance	dB	10/23/16	08-Apr-18 (No. 211-02000000)

Calculated by: [Signature]

Approved by: [Signature]

Certificate No.: D1900V2-0d113\_0d118 Page 1 of 8

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Administrative Reference No.: SCS 0108

Certificate No.: D1900V2-0d113\_0d118

### Glossary

TSL: Hour circulating legal  
ConF: sensitivity in TSL / NORM k.y.t  
NA: not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEC 61010-1:2011, "Safety Requirements for Low Voltage Switchgear"
- IEC 60335-1:2006, "Safety of Household Appliances"
- IEC 60335-2:2006, "Safety of Household Appliances"
- IEC 60335-2-1:2006, "Safety of Household Appliances"
- IEC 60335-2-2:2006, "Safety of Household Appliances"
- IEC 60335-2-3:2006, "Safety of Household Appliances"
- IEC 60335-2-4:2006, "Safety of Household Appliances"
- IEC 60335-2-5:2006, "Safety of Household Appliances"
- IEC 60335-2-6:2006, "Safety of Household Appliances"
- IEC 60335-2-7:2006, "Safety of Household Appliances"
- IEC 60335-2-8:2006, "Safety of Household Appliances"
- IEC 60335-2-9:2006, "Safety of Household Appliances"
- IEC 60335-2-10:2006, "Safety of Household Appliances"
- IEC 60335-2-11:2006, "Safety of Household Appliances"
- IEC 60335-2-12:2006, "Safety of Household Appliances"
- IEC 60335-2-13:2006, "Safety of Household Appliances"
- IEC 60335-2-14:2006, "Safety of Household Appliances"
- IEC 60335-2-15:2006, "Safety of Household Appliances"
- IEC 60335-2-16:2006, "Safety of Household Appliances"
- IEC 60335-2-17:2006, "Safety of Household Appliances"
- IEC 60335-2-18:2006, "Safety of Household Appliances"
- IEC 60335-2-19:2006, "Safety of Household Appliances"
- IEC 60335-2-20:2006, "Safety of Household Appliances"
- IEC 60335-2-21:2006, "Safety of Household Appliances"
- IEC 60335-2-22:2006, "Safety of Household Appliances"
- IEC 60335-2-23:2006, "Safety of Household Appliances"
- IEC 60335-2-24:2006, "Safety of Household Appliances"
- IEC 60335-2-25:2006, "Safety of Household Appliances"
- IEC 60335-2-26:2006, "Safety of Household Appliances"
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- IEC 60335-2-31:2006, "Safety of Household Appliances"
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- IEC 60335-2-37:2006, "Safety of Household Appliances"
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- IEC 60335-2-66:2006, "Safety of Household Appliances"
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- IEC 60335-2-68:2006, "Safety of Household Appliances"
- IEC 60335-2-69:2006, "Safety of Household Appliances"
- IEC 60335-2-70:2006, "Safety of Household Appliances"
- IEC 60335-2-71:2006, "Safety of Household Appliances"
- IEC 60335-2-72:2006, "Safety of Household Appliances"
- IEC 60335-2-73:2006, "Safety of Household Appliances"
- IEC 60335-2-74:2006, "Safety of Household Appliances"
- IEC 60335-2-75:2006, "Safety of Household Appliances"
- IEC 60335-2-76:2006, "Safety of Household Appliances"
- IEC 60335-2-77:2006, "Safety of Household Appliances"
- IEC 60335-2-78:2006, "Safety of Household Appliances"
- IEC 60335-2-79:2006, "Safety of Household Appliances"
- IEC 60335-2-80:2006, "Safety of Household Appliances"
- IEC 60335-2-81:2006, "Safety of Household Appliances"
- IEC 60335-2-82:2006, "Safety of Household Appliances"
- IEC 60335-2-83:2006, "Safety of Household Appliances"
- IEC 60335-2-84:2006, "Safety of Household Appliances"
- IEC 60335-2-85:2006, "Safety of Household Appliances"
- IEC 60335-2-86:2006, "Safety of Household Appliances"
- IEC 60335-2-87:2006, "Safety of Household Appliances"
- IEC 60335-2-88:2006, "Safety of Household Appliances"
- IEC 60335-2-89:2006, "Safety of Household Appliances"
- IEC 60335-2-90:2006, "Safety of Household Appliances"
- IEC 60335-2-91:2006, "Safety of Household Appliances"
- IEC 60335-2-92:2006, "Safety of Household Appliances"
- IEC 60335-2-93:2006, "Safety of Household Appliances"
- IEC 60335-2-94:2006, "Safety of Household Appliances"
- IEC 60335-2-95:2006, "Safety of Household Appliances"
- IEC 60335-2-96:2006, "Safety of Household Appliances"
- IEC 60335-2-97:2006, "Safety of Household Appliances"
- IEC 60335-2-98:2006, "Safety of Household Appliances"
- IEC 60335-2-99:2006, "Safety of Household Appliances"
- IEC 60335-2-100:2006, "Safety of Household Appliances"

Additional Documentation:  
a) DASY8 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer in position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured SAR: SAR measured at the stated antenna input power.
- SAR normalized SAR: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No.: D1900V2-0d113\_0d118 Page 2 of 8

### Measurement Conditions

DASY system configuration, as far as not given on page 1

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1900 MHz ± 1 MHz	

### Head TSL parameters

The following parameters and calculations were applied:

Parameter	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.0	1.40 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.6 ± 6 %	1.39 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	---	---

### SAR result with Head TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	10.1 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	40.7 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	5.30 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	21.3 W/kg ± 16.5 % (k=2)

### Body TSL parameters

The following parameters and calculations were applied:

Parameter	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	53.3	1.52 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	53.2 ± 6 %	1.48 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	---	---

### SAR result with Body TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	9.80 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	39.8 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Body TSL	Condition	
SAR measured	250 mW input power	5.23 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.1 W/kg ± 16.5 % (k=2)

Certificate No.: D1900V2-0d113\_0d118 Page 3 of 8

### Appendix (Additional assessments outside the scope of SCS 0108)

#### Antenna Parameters with Head TSL

Impedance, transformed to feed point	11.1 Ω ± 0.0 Ω
Return Loss	-33.8 dB

#### Antenna Parameters with Body TSL

Impedance, transformed to feed point	61.0 Ω ± 7.2 Ω
Return Loss	-19.8 dB

#### General Antenna Parameters and Design

Electrical Delay (one direction)	1.22 ns
----------------------------------	---------

After long time use with 100W reflected power, only a slight warping of the dipole near the feedpoint can be measured.

The dipole is made of stainless steel wire mesh. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore grounded for DC signals. On some of the dipole arms, small metal caps are added to the dipole arms in order to improve matching when tested according to the procedure explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The central dipole length is still according to the standard.

No protection force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

#### Additional EUT Data

Manufactured by	SPEAG
Manufactured on	July 24, 2008

Certificate No.: D1900V2-0d113\_0d118 Page 4 of 8

D1900V2 Sn:5d113

DASY5 Validation Report for Head TSL

Date: 21.10.2016

Test Laboratory: SPAG, Zurich, Switzerland

DUT: Dipole (100 MHz); Type: D1900V2; Serial: D1900V2 - SN:5d113

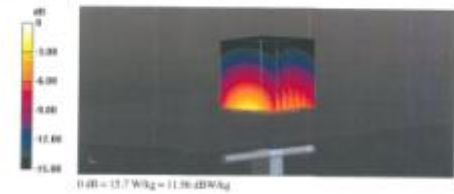
Communication System: UTD-C; CW; Frequency: 100 MHz  
Medium parameters used:  $f = 100 \text{ MHz}$ ;  $\epsilon = 1.29$ ;  $\text{Str}_0 = 45.6$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom name: Flat Surface  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19:2011)

DASY5 Configuration:

- Probe: EKCDV4 - SN7348; Coef(F): 09, 7.09, 7.09; Calibration: 15.06.2016;
- Sensor Surface: 1 Area (Mechanical Surface Detection)
- Electronics: DADE 0401; Calibration: 30.12.2015
- Phantom: Flat Phantom 5.0 (Head); Type: QD00P090AA; Serial: 0001
- DASY5: 52.6.6.1238; SEMCAD X 14.6.007372

Dipole Calibration for Head ThermoPho=250  $\mu\text{W}$ ,  $d=10\text{mm}$ /Zoom Scan (7x7x7)/Cube B:

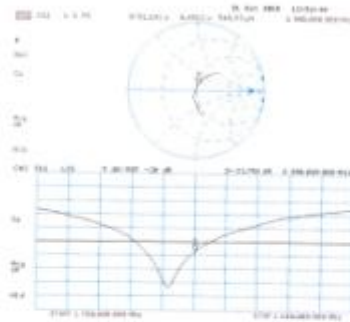
Measurement grid:  $d_x=5\text{mm}$ ,  $d_y=5\text{mm}$ ,  $d_z=5\text{mm}$   
Reference Value = 10.4 W/kg; Power DUT = -61.0 dB  
Peak SAR (extrapolated) = 19.0 W/kg  
SAR(1g) = 10.1 W/kg; SAR(10g) = 5.3 W/kg  
Maximum value of SAR (measured) = 15.7 W/kg



CalPhan No: D1900V2-00113\_0010

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Impedance Measurement Plot for Head TSL



CalPhan No: D1900V2-00113\_0010

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DASY5 Validation Report for Body TSL

Date: 21.10.2016

Test Laboratory: SPAG, Zurich, Switzerland

DUT: Dipole (100 MHz); Type: D1900V2; Serial: D1900V2 - SN:5d113

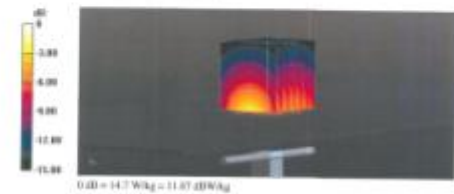
Communication System: UTD-C; CW; Frequency: 100 MHz  
Medium parameters used:  $f = 100 \text{ MHz}$ ;  $\epsilon = 1.44$ ;  $\text{Str}_0 = 55.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom name: Flat Surface  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19:2011)

DASY5 Configuration:

- Probe: EKCDV4 - SN7348; Coef(F): 03, 8.03, 8.03; Calibration: 15.06.2016;
- Sensor Surface: 1 Area (Mechanical Surface Detection)
- Electronics: DADE 0401; Calibration: 30.12.2015
- Phantom: Flat Phantom 5.0 (Back); Type: QD00P090AA; Serial: 0002
- DASY5: 52.6.6.1238; SEMCAD X 14.6.007372

Dipole Calibration for Body ThermoPho=250  $\mu\text{W}$ ,  $d=10\text{mm}$ /Zoom Scan (7x7x7)/Cube B:

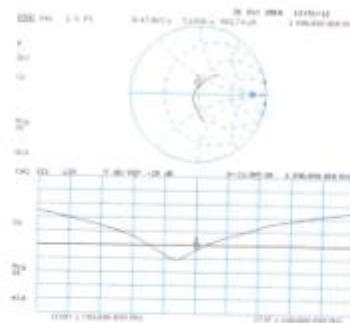
Measurement grid:  $d_x=5\text{mm}$ ,  $d_y=5\text{mm}$ ,  $d_z=5\text{mm}$   
Reference Value = 10.5 W/kg; Power DUT = -61.0 dB  
Peak SAR (extrapolated) = 17.2 W/kg  
SAR(1g) = 9.8 W/kg; SAR(10g) = 5.23 W/kg  
Maximum value of SAR (measured) = 14.7 W/kg



CalPhan No: D1900V2-00113\_0010

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Impedance Measurement Plot for Body TSL



CalPhan No: D1900V2-00113\_0010

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D2450V2 Sn:738

Calibration Laboratory of  
Schmid & Partner  
Engineering AG  
Friedenstraße 15, 89411 Sulz, Baden-Württemberg

Accredited by the Swiss Accreditation Service (SAS) for the Swiss Accreditation Service in case of the application to the EU Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client: **SRTC (HK)**      Reference: **D2450V2-TSL\_Oct16**

### CALIBRATION CERTIFICATE

Name: **D2450V2 - 041738**

Calibration procedure: **SAR-CAL-05-09**  
Calibration procedure for dipole antenna HK above 100 MHz

Calibration date: **October 25, 2016**

The calibration certificate documents the conformity of national standards with respect to the physical units of measurement. The measurements and the uncertainty with calibration possibility are given in the following pages and are part of the certificate.

All calibration facilities conform to the smallest uncertainty factor, maximum expanded uncertainty (k=2) as follows:

Calibration equipment used (MPEV) unless otherwise stated:

Calibration Standard	Lot #	Due Date (Certificate No.)	Expiration Date
Power meter PPA 6032	SN 130719	30-Apr-16 (No. 211-020000000)	Apr-17
Power meter HP 3441A	SN 102884	30-Apr-16 (No. 211-0200000)	Apr-17
Power meter HP 3411	SN 103840	30-Apr-16 (No. 211-0200000)	Apr-17
Reference for 50 Ohm Impedance	SN 4004 (2016)	30-Apr-16 (No. 211-0200000)	Apr-17
Type Environmental conditions	SN 5007 (2016)	30-Apr-16 (No. 211-0200000)	Apr-17
Reference Probe PCE244	SN 7444	30-Apr-16 (No. 211-0200000)	Apr-17
SAR	SN 307	30-Sep-15 (No. 242A-01_2015)	Dec-16

Secondary standards:

Name	Lot #	Due Date (Certificate No.)	Expiration Date
Power meter PPA 6032	SN 130719 (2)	30-Apr-16 (No. 211-0200000)	30-Apr-16 (2016)
Power meter HP 3441A	SN 102884 (2)	30-Apr-16 (No. 211-0200000)	30-Apr-16 (2016)
Power meter HP 3411	SN 103840 (2)	30-Apr-16 (No. 211-0200000)	30-Apr-16 (2016)
Reference for 50 Ohm Impedance	SN 4004 (2)	30-Apr-16 (No. 211-0200000)	30-Apr-16 (2016)
Type Environmental conditions	SN 5007 (2)	30-Apr-16 (No. 211-0200000)	30-Apr-16 (2016)
Reference Probe PCE244	SN 7444 (2)	30-Apr-16 (No. 211-0200000)	30-Apr-16 (2016)
SAR	SN 307 (2)	30-Sep-15 (No. 242A-01_2015)	30-Sep-15 (2015)

Calibrated by: **Stefan Schmid**      Center Laboratory Number: **0101**

Approved by: **Stefan Schmid**      Calibration Manager

The calibration certificate shall not be reproduced, copied or further used without written approval of the laboratory.

Certificate No.: D2450V2-TSL\_Oct16      Page 1 of 3

Calibration Laboratory of  
Schmid & Partner  
Engineering AG  
Friedenstraße 15, 89411 Sulz, Baden-Württemberg

Accredited by the Swiss Accreditation Service (SAS) for the Swiss Accreditation Service in case of the application to the EU Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client: **SRTC (HK)**      Reference: **D2450V2-TSL\_Oct16**

### CALIBRATION CERTIFICATE

Name: **D2450V2 - 041738**

Calibration procedure: **SAR-CAL-05-09**  
Calibration procedure for dipole antenna HK above 100 MHz

Calibration date: **October 25, 2016**

The calibration certificate documents the conformity of national standards with respect to the physical units of measurement. The measurements and the uncertainty with calibration possibility are given in the following pages and are part of the certificate.

All calibration facilities conform to the smallest uncertainty factor, maximum expanded uncertainty (k=2) as follows:

Calibration equipment used (MPEV) unless otherwise stated:

Classical:

TSL: Issue simulating legal sensitivity in TSL / NORR k.y.f. N/A

ConcF: N/A

NA: Not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- ROE 065664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- DASY8 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the 'Isolation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the fat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna contacts.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No.: D2450V2-TSL\_Oct16      Page 2 of 3

#### Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	Advanced Extrapolation	V52.6.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Fat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz ± 1 MHz	

#### Head TSL parameters

The following parameters and calculations were applied:

Parameter	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	38.7 ± 6 %	1.87 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	---	---

#### SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.1 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	51.2 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.07 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.9 W/kg ± 16.5 % (k=2)

#### Body TSL parameters

The following parameters and calculations were applied:

Parameter	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.7	1.95 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	51.3 ± 6 %	2.02 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	---	---

#### SAR result with Body TSL

SAR averaged over 1 cm³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	13.0 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	50.8 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	6.06 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	24.0 W/kg ± 16.5 % (k=2)

Certificate No.: D2450V2-TSL\_Oct16      Page 3 of 3

#### Appendix (Additional assessments outside the scope of SCS 0108)

##### Antenna Parameters with Head TSL

Parameter	Value
Impedance, transformed to feed point	39.8 Ω ± 0.1 Ω
Return Loss	17.3 dB

##### Antenna Parameters with Body TSL

Parameter	Value
Impedance, transformed to feed point	46.7 Ω ± 0.8 Ω
Return Loss	20.5 dB

##### General Antenna Parameters and Design

Parameter	Value
Electrical Delay (one direction)	1.787 ns

After long run use with 100W (substantially above, only a slight warming of the dipole loop the temperature can be measured)

The dipole is made of standard average sized cable. The center conductor of the feeding line is closely connected to the second arm of the dipole. The antenna is flexible and considered for 3D signals. The arms of the dipole, which are used as well as the dipole arms in order to improve matching when tested according to the position as explained in the 'Measurement Conditions' paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No additional force must be applied to the dipole arms, because they might bend on the additional conductor near the feedpoint due to the elongation.

##### Additional EUT Data

Parameter	Value
Manufactured by	SFGAS
Manufactured on	August 05, 2015

Certificate No.: D2450V2-TSL\_Oct16      Page 4 of 3

D2450V2 Sn:738

DASY2 Validation Report for Head TSL

Date: 25.10.2016

Test Laboratory: SPEAG, Zurich, Switzerland

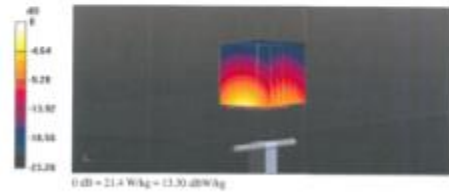
DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2-SN:738

Communication System: UED 0 - CW; Frequency: 2450 MHz  
Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.875 \text{ m/s}$ ;  $\epsilon = 36.2$ ;  $\mu = 1000 \text{ kg/m}^3$   
Phantom section: Flat Surface  
Measurement Standard: DASY2 (IEEE/IEC/ANSI CS37-20:2011)

DASY2 Configuration:

- Probe: EX3D164 - SNT300; Class(F): 7.5, 7.75, 7.75; Calibrated: 03.06.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DA69 Sub01; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (Invt); Type: QD09P50AA; Serial: 1001
- DASY2: S2.8.8(128); SEMCAD X 14.4.0K(7372)

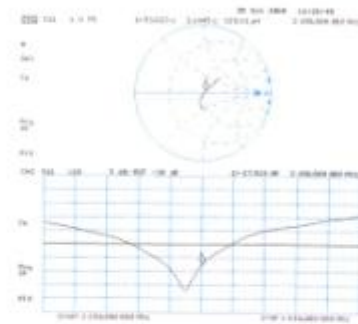
Dipole Calibration for Head Tissue/Plane=200 mW,  $d=10\text{mm}$ /Z-axis Scan (7x7x7)/Cube 0:  
Measurement grid:  $d_x=5\text{mm}$ ,  $d_y=5\text{mm}$ ,  $d_z=1\text{mm}$   
Reference Value = 13.7 dB; Power Dens. = 0.04 dB  
Peak SAR (interpolated) = 26.4 W/kg  
SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.87 W/kg  
Maximum value of SAR (measured) = 21.4 W/kg



Certificate No.: 2016010738\_0016

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Impedance Measurement Plot for Head TSL



Certificate No.: 2016010738\_0016

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DASY2 Validation Report for Body TSL

Date: 25.10.2016

Test Laboratory: SPEAG, Zurich, Switzerland

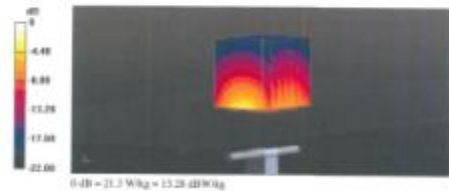
DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2-SN:738

Communication System: UED 0 - CW; Frequency: 2450 MHz  
Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 2.00 \text{ m/s}$ ;  $\epsilon = 51.3$ ;  $\mu = 1000 \text{ kg/m}^3$   
Phantom section: Flat Surface  
Measurement Standard: DASY2 (IEEE/IEC/ANSI CS37-20:2011)

DASY2 Configuration:

- Probe: EX3D164 - SNT300; Class(F): 7.5, 7.75, 7.75; Calibrated: 03.06.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DA69 Sub01; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (Invt); Type: QD09P50AA; Serial: 1001
- DASY2: S2.8.8(128); SEMCAD X 14.4.0K(7372)

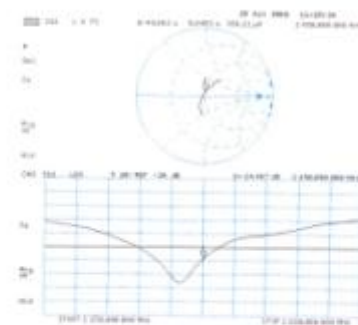
Dipole Calibration for Body Tissue/Plane=200 mW,  $d=10\text{mm}$ /Z-axis Scan (7x7x7)/Cube 0:  
Measurement grid:  $d_x=5\text{mm}$ ,  $d_y=5\text{mm}$ ,  $d_z=1\text{mm}$   
Reference Value = 10.7 dB; Power Dens. = 0.04 dB  
Peak SAR (interpolated) = 26.0 W/kg  
SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.88 W/kg  
Maximum value of SAR (measured) = 21.3 W/kg



Certificate No.: 2016010738\_0016

Page 7 of 8

Impedance Measurement Plot for Body TSL



Certificate No.: 2016010738\_0016

Page 8 of 8

D2600V2 Sn:1089

Calibration Laboratory of  
Schmid & Partner  
Engineering AG  
Zugstrasse 43, 8048 Zurich, Switzerland



S Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun Svizra

Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates  
Client: Sony Mobile CN (Vitec) Certificate No: D2600V2-1089\_Jul16  
Accreditation No.: SCS 0108

**CALIBRATION CERTIFICATE**

Order: D2600V2 - SN: 1089  
Definition instrument: QA CAL-05-V9  
Calibration procedure for dipole validation kits above 700 MHz  
Calibration date: July 13, 2016

This calibration certificate documents the traceability to national standards, which ensure the physical units of measurement (SI).  
The measurement and the uncertainty with confidence probability are given on the following pages and are part of the certificate.  
All calibrations have been conducted in the clean laboratory facility, environment temperature 22 ± 0.2 °C and humidity < 70%.

Calibration Equipment used: IMTE (not for calibration)

Primary Standards	SI	Unc Data (Certificate No.)	Scheduled Calibration
Power meter NRP	SI: 134776	30-Apr-16 70: 177-02089-02089	Apr-17
Power sensor NRP-Z81	SI: 102884	30-Apr-16 70: 177-02086	Apr-17
Power sensor NRP-Z81	SI: 102845	30-Apr-16 70: 177-02086	Apr-17
Reference 20 dB Attenuator	SI: 2028 (20k)	30-Apr-16 70: 177-02092	Apr-17
Traceable impedance standards	SI: 20472 (100Ω)	30-Apr-16 70: 177-02082	Apr-17
Reference Probe F22014	SI: 1249	15-Jan-16 10: 15A4-691-D4610	Jan-16
DAK1	SI: 411	30-Dec-15 10: 15A4-691-D4610	Dec-15

Secondary Standards	SI	Check Date (if traceable)	Scheduled Check
Power meter FPU-4 (2)	SI: 1361186134	07-Oct-15 10: 217-02023	To trace check Oct-16
Power sensor HP 3487A	SI: 1015280132	07-Oct-15 10: 217-02023	To trace check Oct-16
Power sensor HP 3487A	SI: 1015280132	07-Oct-15 10: 217-02023	To trace check Oct-16
HP generator 86570F (2)	SI: 170219	15-Jan-16 10: 15A4-691-D4610	To trace check Feb-16
Impedance standards F22014	SI: 1015280132	15-Jan-16 10: 15A4-691-D4610	To trace check Feb-16

Authorized by: Adam Kestral Laboratory Technician  
Checked by: Rada Polovic Technical Manager

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Calibration Laboratory of  
Schmid & Partner  
Engineering AG  
Zugstrasse 43, 8048 Zurich, Switzerland



S Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun Svizra

Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates  
Client: Sony Mobile CN (Vitec) Certificate No: D2600V2-1089\_Jul16  
Accreditation No.: SCS 0108

**Glossary:**

TSL: tissue simulating liquid  
Cm/F: sensitivity in TSL / NORM x,y,z  
N/A: not applicable or not measured

Calibration is Performed According to the Following Standards:  
a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013  
b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005  
c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010  
d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:  
e) DASY4.5 System Handbook

**Methods Applied and Interpretation of Parameters:**

- **Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- **Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- **Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- **Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- **SAR measured:** SAR measured at the stated antenna input power.
- **SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- **SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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**Measurement Conditions**

DASY system configuration, as described in page 1	DASY	174.0 dB
Extrapolation	Advanced Extrapolation	
Phantom	Multiple Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	16, 32, 64, 128 mm	
Frequency	2600 MHz ± 1.0 kHz	

**Head TSL parameters**

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	79.0	1.60 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.5 ± 0.5 %	2.02 mho/m ± 0.5 %
Head TSL temperature change during test	< 0.5 °C	---	---

**SAR result with Head TSL**

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	14.6 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	57.1 W/kg ± 17.0 % (k=2)

**Body TSL parameters**

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.0	2.18 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	51.4 ± 0.5 %	2.20 mho/m ± 0.5 %
Body TSL temperature change during test	< 0.5 °C	---	---

**SAR result with Body TSL**

SAR averaged over 1 cm <sup>3</sup> (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	13.6 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	53.7 W/kg ± 17.0 % (k=2)

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**Appendix (Additional assessments outside the scope of SCS 0108)**

**Antenna Parameters with Head TSL**

Impedance, transformed to feed point	49.5 Ω ± 0.8 Ω
Return Loss	> 23.0 dB

**Antenna Parameters with Body TSL**

Impedance, transformed to feed point	49.5 Ω ± 0.8 Ω
Return Loss	> 22.7 dB

**General Antenna Parameters and Design**

Electrical Delay (one direction)	1.149 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.  
The dipole is made of standard semi-rigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.  
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

**Additional EUT Data**

Manufactured by	SPEAG
Manufactured on	March 15, 2014

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D2600V2 Sn:1089

DASY5 Validation Report for Head TSL

Date: 13.07.2016

Test Laboratory: SPTAG, Zurich, Switzerland

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN: 1089

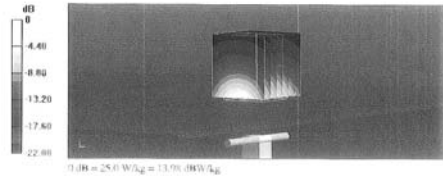
Communication System: UTD 0 - CW; Frequency: 2600 MHz  
Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.02$  S/m;  $\epsilon_r = 37.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF17.56, 7.56; Calibrated: 15.06.2016;
- Sensor Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DA64 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.8.8 (258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

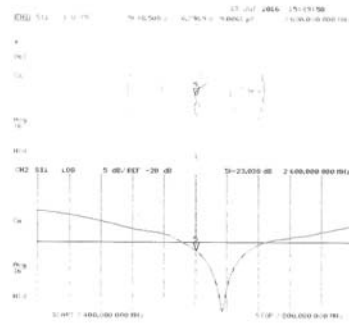
Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 117.2 V/m; Power Drift = 0.01 dB  
Peak SAR (extrapolated) = 31.2 W/kg  
NAR(1 g) = 14.6 W/kg; SAR(10 g) = 6.46 W/kg  
Maximum value of SAR (measured) = 25.0 W/kg



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Impedance Measurement Plot for Head TSL



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DASY5 Validation Report for Body TSL

Date: 07.07.2016

Test Laboratory: SPTAG, Zurich, Switzerland

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN: 1089

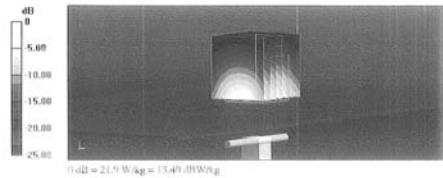
Communication System: UTD 0 - CW; Frequency: 2600 MHz  
Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.2$  S/m;  $\epsilon_r = 51.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF17.48, 7.48; Calibrated: 15.06.2016;
- Sensor Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DA64 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8 (258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

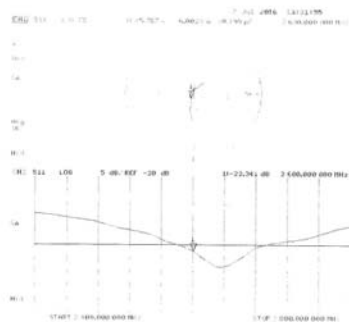
Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 105.3 V/m; Power Drift = -0.07 dB  
Peak SAR (extrapolated) = 27.8 W/kg  
NAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.06 W/kg  
Maximum value of SAR (measured) = 21.9 W/kg



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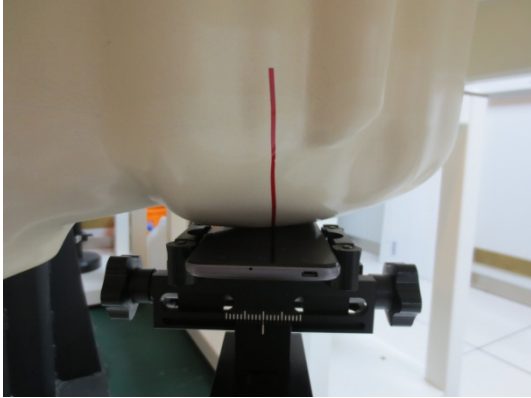
Impedance Measurement Plot for Body TSL



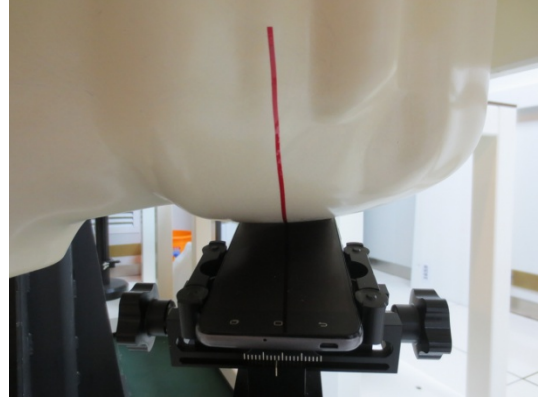
Carthorpe/013.10071717-1089\_2016

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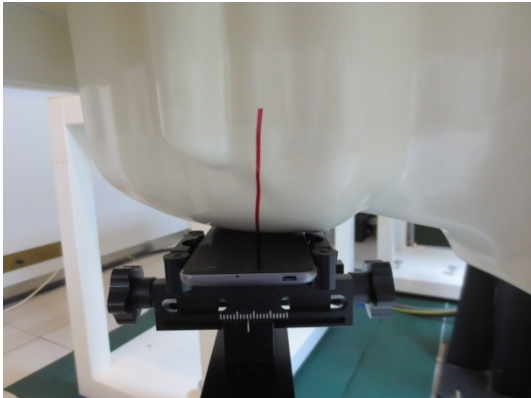
**ANNEX C - PHOTOGRAPH**



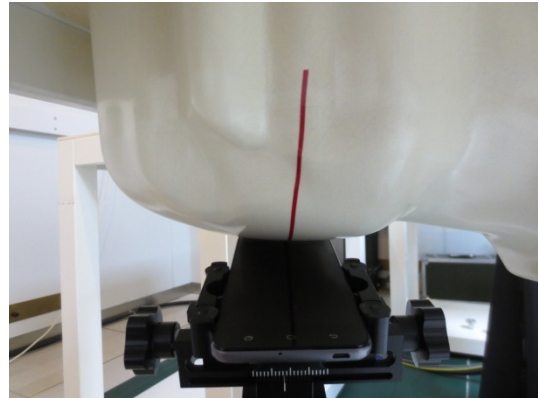
Cheek position, left side



Tilt position, left side



Cheek position, Right side



Tilt position, Right side

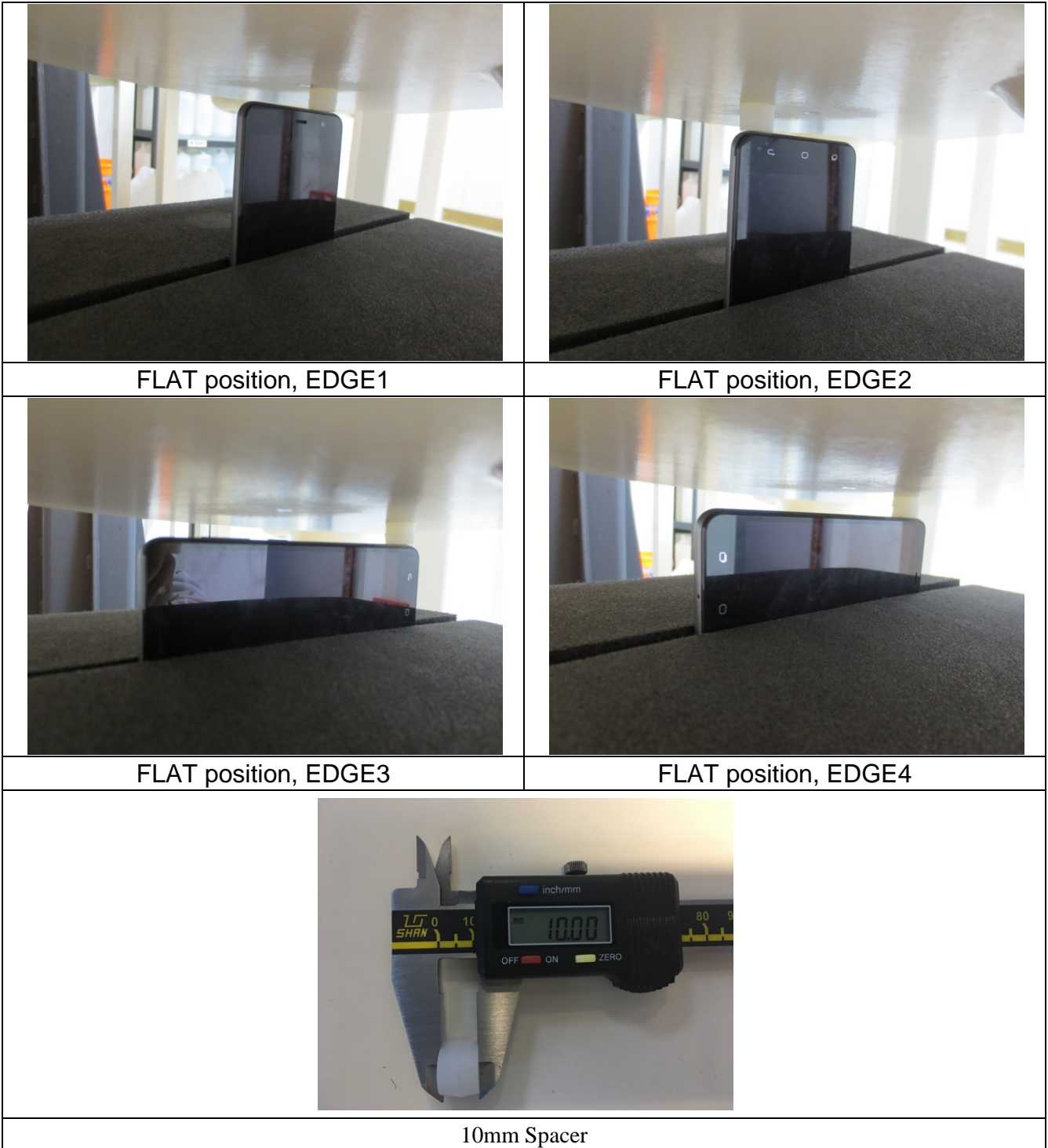


FLAT position, Towards phantom



FLAT position, Towards ground





---End of Test Report---