TEST REPORT
FOR SAR TESTING

Report No.: SRTC2017-9004(F)-0029

Product Name: LTE/WCDMA/GSM(GPRS) Mutil-Mode Digital Mobile Phone

Product Model: ZTE BLADE V0850/ZTE BLADE V8 MINI/BLADE V8 mini/ZTE BLADE V8 mini

Applicant: ZTE Corporation

Manufacturer: ZTE Corporation

Specification: FCC Part 2.1093   IEEE Std 1528-2013

FCC RF Exposure KDB Procedures

FCC ID: SRQ-BLADEV8MINI

Contents

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

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1.3 Applicant's details

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1.4 Manufacturer's details

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Country or Region:	P.R.China
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Email:	zhang.min13@zte.com.cn

1.5 Test Environment

Date of Receipt of test sample at SRTC:	2017.03.27
Testing Start Date:	2017.03.27
Testing End Date:	2017.04.14

Environmental Data:	Temperature (°C)	Humidity (%)
Ambient	25.0	38.0

Normal Supply Voltage (V d.c.):	3.70

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/FDD4/FDD5 LTE Band: FDD2/FDD4/FDD5/ FDD7/ FDD12/ FDD13 Wi-Fi Band: 2400MHz~2483.5MHz Bluetooth Band: 2400MHz~2483.5MHz

Mode	GSM
	    ☒Voice (GMSK)
	    ☒GPRS (GMSK)
	    ☒EGPRS (GMSK/8PSK)
	WCDMA
	    ☒UMTS Rel. 99 (Voice & Data)
	    ☒HSDPA (Rel. 5)
	    ☒HSUPA (Rel. 6)
	    ☐HSPA+ (Rel.)
	    ☐DC-HSDPA (Rel.)
	LTE
	    ☒QPSK
	    ☒16QAM
	Wi-Fi 2.4GHz (802.11b/g/n)
	    ☒802.11b
	    ☒802.11g
	    ☒802.11n (20MHz)
	    ☒802.11n (40MHz)
	Bluetooth
	    ☒BR(GFSK)
	    ☒EDR(π/4 DQPSK , 8-DPSK)
	    ☒BLE(GFSK)

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	☐Class 8 - One Up ☐Class 10 - Two Up ☒Class 12 - Four Up
Mobile Phone Capability	☐Class A - Mobile phones can be connected to both GPRS and GSM services simultaneously. ☒Class B - Mobile phones can be attached to both GPRS and GSM services, using one service at a time. ☐Class C - Mobile phones are attached to either GPRS or GSM voice service. You need to switch manually between services
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	JD1504231/ FDC
Batteries	Li3928T44P8h475371/ Harbin Coslight Power CO.,LTD
H/W Version S/W Version	ux9A GEN_LA_BV0850_V1.0
IMEI	863927030037287
Notes	The phone supports two SIM cards but only one transmitter. So all the relevant tests shown in this test report are performed when the EUT use SIM 1.

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 ± 0.02mm. 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 DAEand 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 ± 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 ± 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.
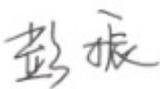
5 RESULT SUMMAR

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.

Exposure Posltion	Frequency Band	1g-SAR Reported Result (W/kg)	Highest 1g-SAR Reported Result (W/kg)	Limit (W/kg)/1g	Result
Head	GSM 850	0.290			
	GSM 1900	0.213			
	WCDMA Band 2	0.360			
	WCDMA Band 4	0.349			
	WCDMA Band 5	0.337			
	WLAN 2.4GHz Band	0.738			
	LTE Band 2	0.189			
	LTE Band 4	0.321			
	LTE Band 5	0.204			
	LTE Band 7	0.604			
	LTE Band 12	0.089			
	LTE Band 13	0.190	1.015	1.6	PASS
Body (10mm Gap)	GSM 850	0.741			
	GSM 1900	0.568			
	WCDMA Band 2	0.695			
	WCDMA Band 4	0.977			
	WCDMA Band 5	0.708			
	WLAN 2.4GHz Band	0.422			
	LTE Band 2	0.956			
	LTE Band 4	1.015			
	LTE Band 5	0.647			
	LTE Band 7	0.737			
	LTE Band 12	0.176			
	LTE Band 13	0.259			

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	0.995			
	WCDMA & Wi-Fi	1.088			
	LTE& Wi-Fi	1.342			
	GSM & Bluetooth	0.550			
	WCDMA & Bluetooth	0.620			
	LTE& Bluetooth	0.864	1.554	1.6	PASS
Body (Gap 10mm)	GSM & Wi-Fi	1.554			
	WCDMA & Wi-Fi	1.441			
	LTE& Wi-Fi	1.438			
	GSM & Bluetooth	**1.391**			
	WCDMA & Bluetooth	1.279			
	LTE& Bluetooth	1.275			

This Test Report Is Issued by: Mr. Peng Zhen	Checked by: Ms. Liu Jia
Tested by: Mr. Jiang Shuo	Issued date: 20170502

6 TEST RESULT

6.1 Manufacturing Tolerance

(Unit: dBm)

GSM

GSM 850			
Channel	Channel 128	Channel 189	Channel 251
Tolerance (dBm)	30.0~33.5	30.0~33.5	30.0~33.5
GSM 1900			
Channel	Channel 512	Channel 661	Channel 810
Tolerance (dBm)	27.0~30.5	27.0~30.5	27.0~30.5

GSM 850 GPRS				
Channel		128	189	251
1 Txslot	Tolerance (dBm)	30.0~34.0	30.0~34.0	30.0~34.0
2 Txslot	Tolerance (dBm)	28.0~32.5	28.0~32.5	28.0~32.5
3 Txslot	Tolerance (dBm)	26.0~31.5	26.0~31.5	26.0~31.5
4 Txslot	Tolerance (dBm)	24.0~29.5	24.0~29.5	24.0~29.5
GSM 850 EGPRS (GMSK)				
Channel		128	189	251
1 Txslot	Tolerance (dBm)	30.0~34.0	30.0~34.0	30.0~34.0
2 Txslot	Tolerance (dBm)	28.0~32.5	28.0~32.5	28.0~32.5
3 Txslot	Tolerance (dBm)	26.0~31.5	26.0~31.5	26.0~31.5
4 Txslot	Tolerance (dBm)	24.0~29.5	24.0~29.5	24.0~29.5

GSM 1900 GPRS				
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)	25.0~29.0	25.0~29.0	25.0~29.0
4 Txslot	Tolerance (dBm)	24.0~26.5	24.0~26.5	24.0~26.5
GSM 1900 EGPRS (GMSK)				
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)	25.0~29.0	25.0~29.0	25.0~29.0
4 Txslot	Tolerance (dBm)	24.0~27.0	24.0~27.0	24.0~27.0

WCDMA

WCDMA Band2			
Channel	9662	9800	9938
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
WCDMA Band4			
Channel	1537	1637	1738
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
WCDMA Band5			
Channel	4357	4408	4458
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0

HSDPA Band2				
Channel		9662	9800	9938
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		9662	9800	9938
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		4357	4408	4458
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		9662	9800	9938
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)	19.0~23.5	19.0~23.5	19.0~23.5
HSDPA Band4				
Channel		9662	9800	9938
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)	19.0~23.5	19.0~23.5	19.0~23.5
HSUPA Band5				
Channel		4357	4408	4458
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)	19.0~23.5	19.0~23.5	19.0~23.5

Bluetooth

GFSK			
Channel	0	39	78
Tolerance (dBm)	6.0~9.0	6.0~9.0	6.0~9.0
π/4DQPSK			
Channel	0	39	78
Tolerance (dBm)	6.0~9.0	6.0~9.0	6.0~9.0
8DPSK			
Channel	0	39	78
Tolerance (dBm)	8.0~11.0	8.0~11.0	8.0~11.0

Bluetooth (BLE)

GFSK			
Channel	0	39	78
Tolerance (dBm)	-4.0~0.0	-4.0~0.0	-4.0~0.0

Wi-Fi(2.4GHz)

802.11b			
Channel	1	6	11
Tolerance (dBm)	13.0~18.0	13.0~18.0	13.0~18.0
802.11g			
Channel	1	6	11
Tolerance (dBm)	7.0~13.5	7.0~13.5	7.0~13.5
802.11n HT20			
Channel	1	6	11
Tolerance (dBm)	7.0~13.5	7.0~13.5	7.0~13.5
802.11n HT40			
Channel	3	6	11
Tolerance (dBm)	5.0~13.0	5.0~13.0	5.0~13.0

LTE

Band 2

20BW 100%RB			
Channel	Channel 18700	Channel 18900	Channel 19100
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
20BW 50%RB			
Channel	Channel 18700	Channel 18900	Channel 19100
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
20BW 1RB			
Channel	Channel 18700	Channel 18900	Channel 19100
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
15BW 100%RB			
Channel	Channel 18675	Channel 18900	Channel 19125
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
15BW 50%RB			
Channel	Channel 18675	Channel 18900	Channel 19125
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
15BW 1RB			
Channel	Channel 18675	Channel 18900	Channel 19125
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
10BW 100%RB			
Channel	Channel 18650	Channel 18900	Channel 19150
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
10BW 50%RB			
Channel	Channel 18650	Channel 18900	Channel 19150
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
10BW 1RB			
Channel	Channel 18650	Channel 18900	Channel 19150
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
5BW 100%RB			
Channel	Channel 18625	Channel 18900	Channel 19175
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
5BW 50%RB			
Channel	Channel 18625	Channel 18900	Channel 19175
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
5BW 1RB			
Channel	Channel 18625	Channel 18900	Channel 19175
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
3BW 100%RB			
Channel	Channel 18615	Channel 18900	Channel 19185
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
3BW 50%RB			
Channel	Channel 18615	Channel 18900	Channel 19185
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
3BW 1RB			
Channel	Channel 18615	Channel 18900	Channel 19185
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
1.4BW 100%RB			
Channel	Channel 18607	Channel 18900	Channel 19193
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
1.4BW 50%RB			
Channel	Channel 18607	Channel 18900	Channel 19193
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
1.4BW 1RB			
Channel	Channel 18607	Channel 18900	Channel 19193
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0

Band 4

20BW 100%RB			
Channel	Channel 20050	Channel 20175	Channel 20300
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
20BW 50%RB			
Channel	Channel 20050	Channel 20175	Channel 20300
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
20BW 1RB			
Channel	Channel 20050	Channel 20175	Channel 20300
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
15BW 100%RB			
Channel	Channel 20250	Channel 20175	Channel 20325
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
15BW 50%RB			
Channel	Channel 20250	Channel 20175	Channel 20325
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
15BW 1RB			
Channel	Channel 20250	Channel 20175	Channel 20325
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
10BW 100%RB			
Channel	Channel 20000	Channel 20175	Channel 20350
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
10BW 50%RB			
Channel	Channel 20000	Channel 20175	Channel 20350
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
10BW 1RB			
Channel	Channel 20000	Channel 20175	Channel 20350
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
5BW 100%RB			
Channel	Channel 19975	Channel 20175	Channel 20375
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
5BW 50%RB			
Channel	Channel 19975	Channel 20175	Channel 20375
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
5BW 1RB			
Channel	Channel 19975	Channel 20175	Channel 20375
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
3BW 100%RB			
Channel	Channel 19965	Channel 20175	Channel 20385
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
3BW 50%RB			
Channel	Channel 19965	Channel 20175	Channel 20385
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
3BW 1RB			
Channel	Channel 19965	Channel 20175	Channel 20385
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
1.4BW 100%RB			
Channel	Channel 19957	Channel 20175	Channel 20393
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
1.4BW 50%RB			
Channel	Channel 19957	Channel 20175	Channel 20393
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
1.4BW 1RB			
Channel	Channel 19957	Channel 20175	Channel 20393
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0

Band 5

20BW 100%RB			
Channel	Channel 20050	Channel 20175	Channel 20300
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
20BW 50%RB			
Channel	Channel 20050	Channel 20175	Channel 20300
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
20BW 1RB			
Channel	Channel 20050	Channel 20175	Channel 20300
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
15BW 100%RB			
Channel	Channel 20250	Channel 20175	Channel 20325
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
15BW 50%RB			
Channel	Channel 20250	Channel 20175	Channel 20325
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
15BW 1RB			
Channel	Channel 20250	Channel 20175	Channel 20325
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
10BW 100%RB			
Channel	Channel 20000	Channel 20175	Channel 20350
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
10BW 50%RB			
Channel	Channel 20000	Channel 20175	Channel 20350
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
10BW 1RB			
Channel	Channel 20000	Channel 20175	Channel 20350
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
5BW 100%RB			
Channel	Channel 19975	Channel 20175	Channel 20375
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
5BW 50%RB			
Channel	Channel 19975	Channel 20175	Channel 20375
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
5BW 1RB			
Channel	Channel 19975	Channel 20175	Channel 20375
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
3BW 100%RB			
Channel	Channel 19965	Channel 20175	Channel 20385
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
3BW 50%RB			
Channel	Channel 19965	Channel 20175	Channel 20385
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
3BW 1RB			
Channel	Channel 19965	Channel 20175	Channel 20385
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
1.4BW 100%RB			
Channel	Channel 19957	Channel 20175	Channel 20393
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
1.4BW 50%RB			
Channel	Channel 19957	Channel 20175	Channel 20393
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
1.4BW 1RB			
Channel	Channel 19957	Channel 20175	Channel 20393
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0

Band7

20BW 100%RB			
Channel	Channel 20850	Channel 21100	Channel 21350
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
20BW 50%RB			
Channel	Channel 20850	Channel 21100	Channel 21350
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
20BW 1RB			
Channel	Channel 20850	Channel 21100	Channel 21350
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
15BW 100%RB			
Channel	Channel 20825	Channel 21100	Channel 21375
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
15BW 50%RB			
Channel	Channel 20825	Channel 21100	Channel 21375
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
15BW 1RB			
Channel	Channel 20825	Channel 21100	Channel 21375
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
10BW 100%RB			
Channel	Channel 20800	Channel 21100	Channel 21400
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
10BW 50%RB			
Channel	Channel 20800	Channel 21100	Channel 21400
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
10BW 1RB			
Channel	Channel 20800	Channel 21100	Channel 21400
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
5BW 100%RB			
Channel	Channel 20775	Channel 21100	Channel 21425
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
5BW 50%RB			
Channel	Channel 20775	Channel 21100	Channel 21425
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
5BW 1RB			
Channel	Channel 20775	Channel 21100	Channel 21425
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0

Band12

20BW 100%RB			
Channel	Channel 20850	Channel 21100	Channel 21350
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
20BW 50%RB			
Channel	Channel 20850	Channel 21100	Channel 21350
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
20BW 1RB			
Channel	Channel 20850	Channel 21100	Channel 21350
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
15BW 100%RB			
Channel	Channel 20825	Channel 21100	Channel 21375
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
15BW 50%RB			
Channel	Channel 20825	Channel 21100	Channel 21375
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
15BW 1RB			
Channel	Channel 20825	Channel 21100	Channel 21375
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
10BW 100%RB			
Channel	Channel 20800	Channel 21100	Channel 21400
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
10BW 50%RB			
Channel	Channel 20800	Channel 21100	Channel 21400
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
10BW 1RB			
Channel	Channel 20800	Channel 21100	Channel 21400
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
5BW 100%RB			
Channel	Channel 20775	Channel 21100	Channel 21425
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
5BW 50%RB			
Channel	Channel 20775	Channel 21100	Channel 21425
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
5BW 1RB			
Channel	Channel 20775	Channel 21100	Channel 21425
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0

Band13

20BW 100%RB			
Channel	Channel 20850	Channel 21100	Channel 21350
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
20BW 50%RB			
Channel	Channel 20850	Channel 21100	Channel 21350
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
20BW 1RB			
Channel	Channel 20850	Channel 21100	Channel 21350
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
15BW 100%RB			
Channel	Channel 20825	Channel 21100	Channel 21375
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
15BW 50%RB			
Channel	Channel 20825	Channel 21100	Channel 21375
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
15BW 1RB			
Channel	Channel 20825	Channel 21100	Channel 21375
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
10BW 100%RB			
Channel	Channel 20800	Channel 21100	Channel 21400
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
10BW 50%RB			
Channel	Channel 20800	Channel 21100	Channel 21400
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
10BW 1RB			
Channel	Channel 20800	Channel 21100	Channel 21400
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
5BW 100%RB			
Channel	Channel 20775	Channel 21100	Channel 21425
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
5BW 50%RB			
Channel	Channel 20775	Channel 21100	Channel 21425
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
5BW 1RB			
Channel	Channel 20775	Channel 21100	Channel 21425
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0

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)	32.48	32.05	32.19	29.73	29.12	29.17

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)	32.33	32.12	32.26	28.61	29.57	29.34
3Downlink2uplinkPower(dBm)	30.63	30.41	30.47	27.32	27.54	27.31
2Downlink3uplinkPower(dBm)	28.66	28.63	28.61	25.81	25.57	25.42
1Downlink4uplinkPower(dBm)	27.88	27.55	27.69	24.63	24.79	24.58

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)	23.30	23.09	23.23	19.58	20.54	20.31
3Downlink2uplinkPower(dBm)	24.61	24.39	24.45	21.30	21.52	21.29
2Downlink3uplinkPower(dBm)	24.40	24.37	24.35	21.55	21.31	21.16
1Downlink4uplinkPower(dBm)	24.87	24.54	24.68	21.52	21.48	21.57

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)	32.13	32.22	32.26	28.53	29.47	29.24
	32.72	32.73	32.67	30.06	29.91	29.90
3Downlink2uplinkPower(dBm)	32.16	32.15	32.02	29.44	29.36	29.35
	32.03	32.06	32.01	29.45	29.32	29.29
2Downlink3uplinkPower(dBm)	30.31	30.27	30.27	27.83	27.67	27.71
	30.33	30.32	30.31	27.82	27.56	27.70
1Downlink4uplinkPower(dBm)	29.30	29.20	29.15	26.74	26.58	26.60
	29.29	29.26	29.12	26.72	26.49	26.59

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)	23.10	23.19	23.23	19.50	20.44	20.21
	23.69	23.70	23.64	21.03	20.88	20.87
3Downlink2uplinkPower(dBm)	26.14	26.13	26.00	23.42	23.34	23.33
	26.01	26.04	25.99	23.43	23.30	23.27
2Downlink3uplinkPower(dBm)	26.05	26.01	26.01	23.57	23.41	23.45
	26.07	26.06	26.05	23.56	23.30	23.44
1Downlink4uplinkPower(dBm)	26.29	26.19	26.14	23.73	23.57	23.59
	26.28	26.25	26.11	23.71	23.48	23.58

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
	βc/βd	8/15

Measured Results

Mode	Band2			Band5		
Channel	9262	9400	9538	4132	4183	4233
Frequency(MHz)	1852.4	1880	1907.6	826.4	836.4	846.6
RB test mode1+64kRMC(dBm)	22.33	22.24	22.52	22.15	22.41	22.24
RB test mode1+12.2kRMC(dBm)	22.41	22.28	22.32	22.35	22.21	22.30
RB test mode1+144kRMC(dBm)	22.35	22.31	22.32	22.16	22.31	22.22
RB test mode1+384kRMC(dBm)	22.22	22.31	22.27	22.23	22.24	22.23
AMR Voice test mode+12.2kRMC(dBm)	22.31	22.33	22.32	22.22	22.16	22.18

Mode	Band4		
Channel	1312	1412	1513
Frequency(MHz)	1712.4	1732.5	1752.6
RB test mode1+64kRMC(dBm)	22.31	22.45	22.19
RB test mode1+12.2kRMC(dBm)	22.32	22.37	22.41
RB test mode1+144kRMC(dBm)	22.33	22.23	22.35
RB test mode1+384kRMC(dBm)	22.27	22.21	22.35
AMR Voice test mode+12.2kRMC(dBm)	22.28	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	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	CM(dB) $^{(2)}$
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15$^{(3)}$	15/15$^{(3)}$	64	12/15$^{(3)}$	24/15	1.0
3	15/15	8/15	64	15/18	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

Note1:$\triangle_{ACK}$, $\triangle_{NACK}$ and $\triangle_{CQI}$ =8 $\Leftrightarrow$ A_{hs}=β_{hs}/β_c=30/15 $\Leftrightarrow$ β_{hs}=30/15*β_c.
Note2:CM=1 for β_c/β_d=12/15, β_{hs}/β_c=24/15.
Note3:For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period(TF1,TF0) is achieved by setting the signaled gain factors for the reference TFC(TF1,TF1)   to β_c=11/15 and β_d=15/15.

Measured Results

Mode	HSDPA Band 2			HSDPA Band 5		
Channel	9262	9400	9538	4132	4183	4233
Frequency(MHz)	1852.4	1880	1907.6	826.4	836.4	846.6
sub-test1(dBm)	20.90	20.90	21.00	20.60	20.70	20.80
sub-test2(dBm)	20.90	20.90	21.00	20.70	20.70	20.80
sub-test3(dBm)	20.40	20.40	20.60	20.10	20.30	20.30
sub-test4(dBm)	20.40	20.40	20.50	20.20	20.30	20.30

Mode	HSDPA Band4		
Channel	1312	1312	1312
Frequency(MHz)	1712.4	1712.4	1712.4
sub-test1(dBm)	20.80	20.70	21.10
sub-test2(dBm)	20.90	20.80	20.70
sub-test3(dBm)	20.40	20.40	20.60
sub-test4(dBm)	20.80	20.70	20.50

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	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} [1]	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM[2] (dB)	MPR (dB)	AG[4] Index	E-TFCI
1	11/15[3]	15/15[3]	64	11/15[3]	22/15	209/225	1039/225	4	1	1.0	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	β_{ed1}:47/15 β_{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[4]	15/15[4]	64	15/15[4]	30/15	24/15	134/15	4	1	1.0	2.0	21	81

Note1: Δ_{ACK}, Δ_{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 β_c/β_d =12/15,β_{hs}/β_c=24/15.For all other combinations of DPDCH,DPCCH,HS-DPCCH,E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

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

Note4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period(TF1,TF0) is achieved by setting the signaled gain factors for the reference TFC(TF1,TF1) to β_c=14/15 and β_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: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Measured Results

Mode	HSUPA Band 2			HSUPA Band 5		
Channel	9262	9400	9538	4132	4183	4233
Frequency(MHz)	1852.4	1880	1907.6	826.4	836.4	846.6
sub-test1(dBm)	19.20	19.20	19.20	18.90	19.00	18.40
sub-test2(dBm)	19.10	19.10	19.20	18.90	19.00	18.40
sub-test3(dBm)	19.20	19.20	19.20	18.90	19.00	18.50
sub-test4(dBm)	18.60	18.60	18.70	18.40	18.40	18.00
sub-test5(dBm)	21.10	21.20	21.10	20.80	20.40	20.90

Mode	HUUPA Band4		
Channel	1312	1312	1312
Frequency(MHz)	1712.4	1712.4	1712.4
sub-test1(dBm)	19.20	19.20	19.20
sub-test2(dBm)	19.30	19.20	19.10
sub-test3(dBm)	19.20	19.20	19.20
sub-test4(dBm)	18.70	18.60	18.80
sub-test5(dBm)	21.00	21.10	21.10

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)	N_{UL}	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Low Range	1.4	18607	1850.7	QPSK	1	Low	23.37
						Mid	23.49
						High	23.32
					50%	Low	23.31
						Mid	23.02
						High	23.22
					100%	---	22.31
				16QAM	1	Low	22.21
						Mid	22.64
						High	22.19
					50%	Low	22.17
						Mid	21.90
						High	22.07
					100%	---	21.31
	3	18615	1851.5	QPSK	1	Low	23.09
						Mid	23.74
						High	23.10
					50%	Low	22.03
						Mid	22.10
						High	22.08
					100%	---	22.04
				16QAM	1	Low	21.95
						Mid	22.73
						High	21.92
					50%	Low	21.06
						Mid	21.12
						High	21.08
					100%	---	21.11

Test Frequency ID	Bandwidth (MHz)	N_{UL}	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Low Range	5	18625	1852.5	QPSK	1	Low	23.14
						Mid	23.75
						High	23.04
					50%	Low	22.07
						Mid	22.03
						High	22.09
					100%	---	21.99
				16QAM	1	Low	21.99
						Mid	22.75
						High	21.84
					50%	Low	21.05
						Mid	21.00
						High	21.03
					100%	---	21.01
	10	18650	1855	QPSK	1	Low	23.24
						Mid	23.25
						High	23.16
					50%	Low	22.06
						Mid	21.97
						High	22.03
					100%	---	21.99
				16QAM	1	Low	22.06
						Mid	22.31
						High	21.93
					50%	Low	21.09
						Mid	21.00
						High	21.03
					100%	---	20.96

Test Frequency ID	Bandwidth (MHz)	N_{UL}	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Low Range	15	18675	1857.5	QPSK	1	Low	23.30
						Mid	22.95
						High	23.18
					50%	Low	22.02
						Mid	21.98
						High	21.96
					100%	---	22.04
				16QAM	1	Low	22.10
						Mid	22.05
						High	21.98
					50%	Low	21.01
						Mid	20.97
						High	20.96
					100%	---	21.00
	20	18700	1860	QPSK	1	Low	23.31
						Mid	23.21
						High	23.17
					50%	Low	23.01
						Mid	23.16
						High	23.28
					100%	---	21.99
				16QAM	1	Low	22.12
						Mid	22.32
						High	21.94
					50%	Low	20.97
						Mid	20.95
						High	20.93
					100%	---	21.01

Test Frequency ID	Bandwidth (MHz)	N$_{UL}$	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Mid Range	1.4	18900	1880	QPSK	1	Low	23.02
						Mid	23.11
						High	23.03
					50%	Low	22.80
						Mid	22.70
						High	22.88
					100%	---	21.92
				16QAM	1	Low	21.89
						Mid	22.28
						High	21.91
					50%	Low	21.89
						Mid	21.54
						High	21.78
					100%	---	20.97
	3	18900	1880	QPSK	1	Low	23.06
						Mid	23.50
						High	22.97
					50%	Low	21.93
						Mid	21.87
						High	21.88
					100%	---	21.88
				16QAM	1	Low	21.90
						Mid	22.76
						High	21.87
					50%	Low	20.98
						Mid	21.02
						High	21.03
					100%	---	20.96

Test Frequency ID	Bandwidth (MHz)	N_{UL}	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Mid Range	5	18900	1880	QPSK	1	Low	23.06
						Mid	23.60
						High	22.97
					50%	Low	21.93
						Mid	21.87
						High	21.88
					100%	---	21.80
				16QAM	1	Low	21.94
						Mid	22.73
						High	21.85
					50%	Low	20.91
						Mid	20.87
						High	20.89
					100%	---	20.92
	10	18900	1880	QPSK	1	Low	23.15
						Mid	23.18
						High	23.07
					50%	Low	21.88
						Mid	21.86
						High	21.89
					100%	---	21.92
				16QAM	1	Low	21.97
						Mid	22.34
						High	21.91
					50%	Low	21.00
						Mid	20.95
						High	20.97
					100%	---	20.95

Test Frequency ID	Bandwidth (MHz)	N_{UL}	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Mid Range	15	18900	1880	QPSK	1	Low	23.17
						Mid	22.85
						High	23.06
					50%	Low	21.97
						Mid	21.93
						High	21.92
					100%	---	21.92
				16QAM	1	Low	21.99
						Mid	22.01
						High	21.89
					50%	Low	20.97
						Mid	20.95
						High	20.96
					100%	---	20.96
	20	18900	1880	QPSK	1	Low	23.40
						Mid	23.07
						High	23.04
					50%	Low	22.94
						Mid	22.87
						High	22.88
					100%	---	22.88
				16QAM	1	Low	21.99
						Mid	22.28
						High	21.84
					50%	Low	20.92
						Mid	20.91
						High	20.88
					100%	---	20.95

Test Frequency ID	Bandwidth (MHz)	N_{UL}	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
High Range	1.4	19193	1909.3	QPSK	1	Low	22.83
						Mid	22.93
						High	22.83
					50%	Low	22.76
						Mid	22.50
						High	22.69
					100%	---	21.81
				16QAM	1	Low	21.67
						Mid	22.09
						High	21.69
					50%	Low	21.63
						Mid	21.37
						High	21.53
					100%	---	20.82
	3	19185	1908.5	QPSK	1	Low	22.72
						Mid	23.47
						High	22.78
					50%	Low	21.72
						Mid	21.79
						High	21.68
					100%	---	21.71
				16QAM	1	Low	21.59
						Mid	22.48
						High	21.62
					50%	Low	20.71
						Mid	20.83
						High	20.75
					100%	---	20.78

Test Frequency ID	Bandwidth (MHz)	N_{UL}	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
High Range	5	19175	1907.5	QPSK	1	Low	22.87
						Mid	23.49
						High	22.79
					50%	Low	21.81
						Mid	21.73
						High	21.79
					100%	---	21.70
				16QAM	1	Low	21.64
						Mid	22.50
						High	21.63
					50%	Low	20.77
						Mid	20.70
						High	20.76
					100%	---	20.73
	10	19150	1905	QPSK	1	Low	22.93
						Mid	22.97
						High	22.86
					50%	Low	21.85
						Mid	21.78
						High	21.79
					100%	---	21.71
				16QAM	1	Low	21.65
						Mid	22.03
						High	21.68
					50%	Low	20.82
						Mid	20.76
						High	20.77
					100%	---	20.68

Test Frequency ID	Bandwidth (MHz)	N_{UL}	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
High Range	15	19125	1902.5	QPSK	1	Low	22.99
						Mid	22.78
						High	22.90
					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	23.07
						Mid	22.99
						High	22.90
					50%	Low	22.79
						Mid	22.74
						High	22.70
					100%	---	21.71
				16QAM	1	Low	21.88
						Mid	22.02
						High	21.66
					50%	Low	20.74
						Mid	20.68
						High	20.69
					100%	---	20.73

Band 4

Test Frequency ID	Bandwidth (MHz)	N_{UL}	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Low Range	1.4	19957	1710.7	QPSK	1	Low	22.47
						Mid	22.58
						High	22.45
					50%	Low	22.41
						Mid	22.10
						High	22.25
					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	22.36
						Mid	23.03
						High	22.41
					50%	Low	21.36
						Mid	21.43
						High	21.37
					100%	---	21.38
				16QAM	1	Low	21.26
						Mid	22.13
						High	21.26
					50%	Low	20.31
						Mid	20.39
						High	20.40
					100%	---	20.42

Test Frequency ID	Bandwidth (MHz)	N_{UL}	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Low Range	5	19975	1712.5	QPSK	1	Low	22.47
						Mid	23.10
						High	22.39
					50%	Low	21.39
						Mid	21.33
						High	21.38
					100%	---	21.27
				16QAM	1	Low	21.32
						Mid	22.18
						High	21.31
					50%	Low	20.32
						Mid	20.26
						High	20.30
					100%	---	20.28
	10	20000	1715	QPSK	1	Low	22.45
						Mid	22.51
						High	22.45
					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)	N_{UL}	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Low Range	15	20025	1717.5	QPSK	1	Low	22.43
						Mid	22.23
						High	22.49
					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	22.46
						Mid	22.45
						High	22.46
					50%	Low	22.21
						Mid	22.31
						High	22.29
					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)	N_{UL}	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Mid Range	1.4	20175	1732.5	QPSK	1	Low	22.27
						Mid	22.39
						High	22.20
					50%	Low	22.21
						Mid	21.94
						High	22.10
					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	22.25
						Mid	22.85
						High	22.24
					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)	N_{UL}	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Mid Range	5	20175	1732.5	QPSK	1	Low	22.31
						Mid	22.82
						High	22.23
					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	22.40
						Mid	22.37
						High	22.31
					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)	N_{UL}	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Mid Range	15	20175	1732.5	QPSK	1	Low	22.86
						Mid	22.06
						High	22.32
					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	22.66
						Mid	22.36
						High	22.39
					50%	Low	22.59
						Mid	22.57
						High	22.58
					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)	N_{UL}	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
High Range	1.4	20393	1754.3	QPSK	1	Low	22.38
						Mid	22.45
						High	22.37
					50%	Low	22.30
						Mid	22.02
						High	22.21
					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	22.37
						Mid	23.00
						High	22.40
					50%	Low	21.30
						Mid	21.34
						High	21.30
					100%	---	21.34
				16QAM	1	Low	21.27
						Mid	22.09
						High	21.26
					50%	Low	20.32
						Mid	20.39
						High	20.36
					100%	---	20.38

Test Frequency ID	Bandwidth (MHz)	N_{UL}	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
High Range	5	20375	1752.5	QPSK	1	Low	22.40
						Mid	22.99
						High	22.36
					50%	Low	21.38
						Mid	21.30
						High	21.29
					100%	---	21.20
				16QAM	1	Low	21.22
						Mid	22.09
						High	21.20
					50%	Low	20.27
						Mid	20.23
						High	20.25
					100%	---	20.26
	10	20350	1750	QPSK	1	Low	22.38
						Mid	22.46
						High	22.51
					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)	N_{UL}	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
High Range	15	20325	1747.5	QPSK	1	Low	22.73
						Mid	22.21
						High	22.53
					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	22.60
						Mid	22.47
						High	22.50
					50%	Low	22.51
						Mid	22.29
						High	22.34
					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 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	23.00
						Mid	23.67
						High	23.01
					50%	Low	21.89
						Mid	21.85
						High	21.91
					100%	---	21.81
				16QAM	1	Low	21.73
						Mid	22.66
						High	21.79
					50%	Low	20.81
						Mid	20.78
						High	20.88
					100%	---	20.86
	10	20800	2505	QPSK	1	Low	23.10
						Mid	23.22
						High	23.29
					50%	Low	21.92
						Mid	21.97
						High	22.09
					100%	---	21.94
				16QAM	1	Low	21.89
						Mid	22.28
						High	21.91
					50%	Low	20.96
						Mid	21.02
						High	21.04
					100%	---	20.86

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	22.97
						Mid	22.78
						High	23.17
					50%	Low	21.74
						Mid	21.80
						High	21.84
					100%	---	21.84
				16QAM	1	Low	21.70
						Mid	21.92
						High	21.92
					50%	Low	20.74
						Mid	20.79
						High	20.85
					100%	---	20.82
	20	20850	2510	QPSK	1	Low	22.98
						Mid	23.17
						High	23.19
					50%	Low	22.81
						Mid	22.91
						High	22.92
					100%	---	22.83
				16QAM	1	Low	21.73
						Mid	22.23
						High	21.93
					50%	Low	20.78
						Mid	20.86
						High	20.88
					100%	---	20.86

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	23.12
						Mid	23.57
						High	22.92
					50%	Low	21.94
						Mid	21.85
						High	21.83
					100%	---	21.80
				16QAM	1	Low	21.92
						Mid	22.67
						High	21.73
					50%	Low	20.92
						Mid	20.80
						High	20.81
					100%	---	20.85
	10	21100	2535	QPSK	1	Low	23.20
						Mid	23.10
						High	22.92
					50%	Low	21.94
						Mid	21.84
						High	21.78
					100%	---	21.84
				16QAM	1	Low	21.89
						Mid	22.28
						High	21.76
					50%	Low	21.02
						Mid	20.90
						High	20.87
					100%	---	20.92

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	23.28
						Mid	22.86
						High	22.98
					50%	Low	22.02
						Mid	21.88
						High	21.76
					100%	---	21.90
				16QAM	1	Low	22.05
						Mid	21.98
						High	21.60
					50%	Low	20.97
						Mid	20.90
						High	20.78
					100%	---	20.87
	20	21100	2535	QPSK	1	Low	23.34
						Mid	23.11
						High	22.70
					50%	Low	22.97
						Mid	22.87
						High	22.65
					100%	---	22.98
				16QAM	1	Low	22.12
						Mid	22.28
						High	21.53
					50%	Low	20.97
						Mid	20.88
						High	20.67
					100%	---	20.87

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	22.83
						Mid	23.36
						High	22.75
					50%	Low	21.63
						Mid	21.58
						High	21.59
					100%	---	21.54
				16QAM	1	Low	21.60
						Mid	22.41
						High	21.53
					50%	Low	20.61
						Mid	20.52
						High	20.54
					100%	---	20.62
	10	21400	2565	QPSK	1	Low	22.88
						Mid	22.59
						High	22.92
					50%	Low	22.81
						Mid	22.69
						High	22.81
					100%	---	21.64
				16QAM	1	Low	21.64
						Mid	21.98
						High	21.57
					50%	Low	20.66
						Mid	20.61
						High	20.67
					100%	---	20.61

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	23.04
						Mid	22.72
						High	22.95
					50%	Low	21.75
						Mid	21.71
						High	21.66
					100%	---	21.75
				16QAM	1	Low	21.78
						Mid	21.79
						High	21.71
					50%	Low	20.74
						Mid	20.73
						High	20.70
					100%	---	20.76
	20	21350	2560	QPSK	1	Low	22.93
						Mid	22.92
						High	22.85
					50%	Low	22.81
						Mid	22.62
						High	22.59
					100%	---	22.63
				16QAM	1	Low	21.86
						Mid	21.96
						High	21.67
					50%	Low	20.70
						Mid	20.64
						High	20.58
					100%	---	20.67

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	824.7	QPSK	1	Low	23.00
						Mid	23.67
						High	23.01
					50%	Low	21.89
						Mid	21.85
						High	21.91
					100%	---	21.81
				16QAM	1	Low	21.73
						Mid	22.66
						High	21.79
					50%	Low	20.81
						Mid	20.78
						High	20.88
					100%	---	20.86
	3	20415	825.5	QPSK	1	Low	23.10
						Mid	23.22
						High	23.29
					50%	Low	21.92
						Mid	21.97
						High	22.09
					100%	---	21.94
				16QAM	1	Low	21.89
						Mid	22.28
						High	21.91
					50%	Low	20.96
						Mid	21.02
						High	21.04
					100%	---	20.86

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Low Range	5	20425	826.5	QPSK	1	Low	22.97
						Mid	22.78
						High	23.17
					50%	Low	21.74
						Mid	21.80
						High	21.84
					100%	---	21.84
				16QAM	1	Low	21.70
						Mid	21.92
						High	21.92
					50%	Low	20.74
						Mid	20.79
						High	20.85
					100%	---	20.82
	10	20450	829	QPSK	1	Low	22.98
						Mid	23.17
						High	23.19
					50%	Low	22.81
						Mid	22.91
						High	22.92
					100%	---	21.83
				16QAM	1	Low	21.73
						Mid	22.23
						High	21.93
					50%	Low	20.78
						Mid	20.86
						High	20.88
					100%	---	20.86

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	23.12
						Mid	23.57
						High	22.92
					50%	Low	21.94
						Mid	21.85
						High	21.83
					100%	---	21.80
				16QAM	1	Low	21.92
						Mid	22.67
						High	21.73
					50%	Low	20.92
						Mid	20.80
						High	20.81
					100%	---	20.85
	3	20525	836.5	QPSK	1	Low	23.20
						Mid	23.10
						High	22.92
					50%	Low	21.94
						Mid	21.84
						High	21.78
					100%	---	21.84
				16QAM	1	Low	21.89
						Mid	22.28
						High	21.76
					50%	Low	21.02
						Mid	20.90
						High	20.87
					100%	---	20.92

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	23.28
						Mid	22.86
						High	22.98
					50%	Low	22.02
						Mid	21.88
						High	21.76
					100%	---	21.90
				16QAM	1	Low	22.05
						Mid	21.98
						High	21.60
					50%	Low	20.97
						Mid	20.90
						High	20.78
					100%	---	20.87
	10	20525	836.5	QPSK	1	Low	23.34
						Mid	23.11
						High	22.70
					50%	Low	22.97
						Mid	22.87
						High	22.65
					100%	---	22.98
				16QAM	1	Low	22.12
						Mid	22.28
						High	21.53
					50%	Low	20.97
						Mid	20.88
						High	20.67
					100%	---	20.87

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	22.83
						Mid	23.36
						High	22.75
					50%	Low	21.63
						Mid	21.58
						High	21.59
					100%	---	21.54
				16QAM	1	Low	21.60
						Mid	22.41
						High	21.53
					50%	Low	20.61
						Mid	20.52
						High	20.54
					100%	---	20.62
	3	20635	847.5	QPSK	1	Low	22.88
						Mid	22.59
						High	22.92
					50%	Low	22.81
						Mid	22.69
						High	22.81
					100%	---	21.64
				16QAM	1	Low	21.64
						Mid	21.98
						High	21.57
					50%	Low	20.66
						Mid	20.61
						High	20.67
					100%	---	20.61

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	23.04
						Mid	22.72
						High	22.95
					50%	Low	21.75
						Mid	21.71
						High	21.66
					100%	---	21.75
				16QAM	1	Low	21.78
						Mid	21.79
						High	21.71
					50%	Low	20.74
						Mid	20.73
						High	20.70
					100%	---	20.76
	10	20600	844	QPSK	1	Low	22.93
						Mid	22.92
						High	22.85
					50%	Low	22.81
						Mid	22.62
						High	22.59
					100%	---	21.63
				16QAM	1	Low	21.86
						Mid	21.96
						High	21.67
					50%	Low	20.70
						Mid	20.64
						High	20.58
					100%	---	20.67

Band 12

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Low Range	1.4	23017	699.7	QPSK	1	Low	23.00
						Mid	23.67
						High	23.01
					50%	Low	21.89
						Mid	21.85
						High	21.91
					100%	---	21.81
				16QAM	1	Low	21.73
						Mid	22.66
						High	21.79
					50%	Low	20.81
						Mid	20.78
						High	20.88
					100%	---	20.86
	3	23025	700.5	QPSK	1	Low	23.10
						Mid	23.22
						High	23.29
					50%	Low	21.92
						Mid	21.97
						High	22.09
					100%	---	21.94
				16QAM	1	Low	21.89
						Mid	22.28
						High	21.91
					50%	Low	20.96
						Mid	21.02
						High	21.04
					100%	---	20.86

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Low Range	5	23035	701.5	QPSK	1	Low	22.97
						Mid	22.78
						High	23.17
					50%	Low	21.74
						Mid	21.80
						High	21.84
					100%	---	21.84
				16QAM	1	Low	21.70
						Mid	21.92
						High	21.92
					50%	Low	20.74
						Mid	20.79
						High	20.85
					100%	---	20.82
	10	23060	704	QPSK	1	Low	22.98
						Mid	23.17
						High	23.19
					50%	Low	22.81
						Mid	22.91
						High	22.92
					100%	---	21.83
				16QAM	1	Low	21.73
						Mid	22.23
						High	21.93
					50%	Low	20.78
						Mid	20.86
						High	20.88
					100%	---	20.86

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Mid Range	1.4	23095	707.5	QPSK	1	Low	23.12
						Mid	23.57
						High	22.92
					50%	Low	21.94
						Mid	21.85
						High	21.83
					100%	---	21.80
				16QAM	1	Low	21.92
						Mid	22.67
						High	21.73
					50%	Low	20.92
						Mid	20.80
						High	20.81
					100%	---	20.85
	3	23095	707.5	QPSK	1	Low	23.20
						Mid	23.10
						High	22.92
					50%	Low	21.94
						Mid	21.84
						High	21.78
					100%	---	21.84
				16QAM	1	Low	21.89
						Mid	22.28
						High	21.76
					50%	Low	21.02
						Mid	20.90
						High	20.87
					100%	---	20.92

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Mid Range	5	23095	707.5	QPSK	1	Low	23.28
						Mid	22.86
						High	22.98
					50%	Low	22.02
						Mid	21.88
						High	21.76
					100%	---	21.90
				16QAM	1	Low	22.05
						Mid	21.98
						High	21.60
					50%	Low	20.97
						Mid	20.90
						High	20.78
					100%	---	20.87
	10	23095	707.5	QPSK	1	Low	23.34
						Mid	23.11
						High	22.70
					50%	Low	22.97
						Mid	22.87
						High	22.65
					100%	---	22.98
				16QAM	1	Low	22.12
						Mid	22.28
						High	21.53
					50%	Low	20.97
						Mid	20.88
						High	20.67
					100%	---	20.87

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
High Range	1.4	23173	715.3	QPSK	1	Low	22.83
						Mid	23.36
						High	22.75
					50%	Low	21.63
						Mid	21.58
						High	21.59
					100%	---	21.54
				16QAM	1	Low	21.60
						Mid	22.41
						High	21.53
					50%	Low	20.61
						Mid	20.52
						High	20.54
					100%	---	20.62
	3	23165	714.5	QPSK	1	Low	22.88
						Mid	22.59
						High	22.92
					50%	Low	22.81
						Mid	22.69
						High	22.81
					100%	---	21.64
				16QAM	1	Low	21.64
						Mid	21.98
						High	21.57
					50%	Low	20.66
						Mid	20.61
						High	20.67
					100%	---	20.61

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
High Range	5	23155	713.5	QPSK	1	Low	23.04
						Mid	22.72
						High	22.95
					50%	Low	21.75
						Mid	21.71
						High	21.66
					100%	---	21.75
				16QAM	1	Low	21.78
						Mid	21.79
						High	21.71
					50%	Low	20.74
						Mid	20.73
						High	20.70
					100%	---	20.76
	10	23130	711	QPSK	1	Low	22.93
						Mid	22.92
						High	22.85
					50%	Low	22.81
						Mid	22.62
						High	22.59
					100%	---	21.63
				16QAM	1	Low	21.86
						Mid	21.96
						High	21.67
					50%	Low	20.70
						Mid	20.64
						High	20.58
					100%	---	20.67

Band 13

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Low Range	5	23205	779.5	QPSK	1	Low	23.00
						Mid	23.67
						High	23.01
					50%	Low	21.89
						Mid	21.85
						High	21.91
					100%	---	21.81
				16QAM	1	Low	21.73
						Mid	22.66
						High	21.79
					50%	Low	20.81
						Mid	20.78
						High	20.88
					100%	---	20.86
	10	23230	782	QPSK	1	Low	23.10
						Mid	23.22
						High	23.29
					50%	Low	22.92
						Mid	22.97
						High	22.09
					100%	---	21.94
				16QAM	1	Low	21.89
						Mid	22.28
						High	21.91
					50%	Low	20.96
						Mid	21.02
						High	21.04
					100%	---	20.86

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
Mid Range	5	23230	782	QPSK	1	Low	23.12
						Mid	23.57
						High	22.92
					50%	Low	21.94
						Mid	21.85
						High	21.83
					100%	---	21.80
				16QAM	1	Low	21.92
						Mid	22.67
						High	21.73
					50%	Low	20.92
						Mid	20.80
						High	20.81
					100%	---	20.85
	10	23230	782	QPSK	1	Low	23.20
						Mid	23.10
						High	22.92
					50%	Low	22.94
						Mid	22.84
						High	22.78
					100%	---	21.84
				16QAM	1	Low	21.89
						Mid	22.28
						High	21.76
					50%	Low	21.02
						Mid	20.90
						High	20.87
					100%	---	20.92

Test Frequency ID	Bandwidth (MHz)	NUL	Frequency of Uplink(MHz)	Modulation	RB Size	RB Offset	Test results (dBm)
High Range	5	23255	784.5	QPSK	1	Low	22.83
						Mid	23.36
						High	22.75
					50%	Low	21.63
						Mid	21.58
						High	21.59
					100%	---	21.54
				16QAM	1	Low	21.60
						Mid	22.41
						High	21.53
					50%	Low	20.61
						Mid	20.52
						High	20.54
					100%	---	20.62
	10	23230	782	QPSK	1	Low	22.88
						Mid	22.59
						High	22.92
					50%	Low	22.81
						Mid	22.69
						High	22.81
					100%	---	21.64
				16QAM	1	Low	21.64
						Mid	21.98
						High	21.57
					50%	Low	20.66
						Mid	20.61
						High	20.67
					100%	---	20.61

6.5 Bluetooth Measurement result

Modulation type	Test Result (dBm)		
	2402MHz(Ch0)	2441MHz(Ch39)	2480MHz(Ch78)
GFSK	8.74	8.33	8.11
π/4DQPSK	9.53	9.14	9.15
8DPSK	9.56	10.03	9.77
GFSK(BLE)	2402MHz(Ch0)	2440MHz(Ch19)	2480MHz(Ch39)
	0.21	1.01	-0.92

Modulation type	Test Result (mW)		
	2402MHz(Ch0)	2441MHz(Ch39)	2480MHz(Ch78)
GFSK	7.48	6.81	6.47
π/4DQPSK	8.97	8.20	8.22
8DPSK	9.04	10.07	9.48
GFSK(BLE)	2402MHz(Ch0)	2440MHz(Ch19)	2480MHz(Ch39)
	1.05	1.26	0.81

6.6 Wi-Fi Measurement result

Modulation type		Average power output (dBm)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462MHz (Ch11)
11b	1 Mbps	**16.52**	**17.12**	**16.16**
	2 Mbps	16.42	17.01	15.89
	5.5 Mbps	16.34	16.59	15.82
	11 Mbps	16.17	16.24	15.75
11g	6 Mbps	**15.07**	**14.20**	**14.37**
	9 Mbps	14.97	14.05	14.03
	12 Mbps	14.62	13.85	13.83
	18 Mbps	14.21	13.61	13.62
	24 Mbps	13.88	12.94	12.84
	36 Mbps	13.45	12.63	12.56
	48 Mbps	13.12	12.25	12.43
	54 Mbps	12.84	11.93	12.07
11n HT20	6.5 Mbps	**14.17**	**13.09**	**13.34**
	13 Mbps	14.00	12.88	13.12
	19.5 Mbps	13.85	12.43	12.85
	26 Mbps	13.63	12.10	12.53
	39 Mbps	12.92	11.86	12.12
	52 Mbps	12.63	11.54	11.43
	58.5 Mbps	11.85	11.35	11.27
	65 Mbps	11.79	10.89	10.98

Modulation type		Average power output (mW)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462MHz (Ch11)
11b	1 Mbps	44.87	51.52	41.30
	2 Mbps	43.85	50.23	38.82
	5.5 Mbps	43.05	45.60	38.19
	11 Mbps	41.40	42.07	37.58
11g	6 Mbps	32.14	26.30	27.35
	9 Mbps	31.41	25.41	25.29
	12 Mbps	28.97	24.27	24.15
	18 Mbps	26.36	22.96	23.01
	24 Mbps	24.43	19.68	19.23
	36 Mbps	22.13	18.32	18.03
	48 Mbps	20.51	16.79	17.50
	54 Mbps	19.23	15.60	16.11
11n HT20	6.5 Mbps	26.12	20.37	21.58
	13 Mbps	25.12	19.41	20.51
	19.5 Mbps	24.27	17.50	19.28
	26 Mbps	23.07	16.22	17.91
	39 Mbps	19.59	15.35	16.29
	52 Mbps	18.32	14.26	13.90
	58.5 Mbps	15.31	13.65	13.40
	65 Mbps	15.10	12.27	12.53

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 ≤ 50 mm

According to the KDB447498 4.3.1 (1)

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

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f (GHz)] ≤ 3.0 for 1-g SAR, where

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

The test exclusions are applicable only when the minimum test separation distance is ≤ 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 [(max. power of channel, including tune-up tolerance, mW)/(60/√f(GHz) mW)]·[20 mm/(min.test separation distance, mm)] ≤ 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	
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	SAR Test Exclusion Threshold (mW)
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	10.07	10	No
(2.4~2.4835)GHz WLAN	51.52	10	Yes

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.
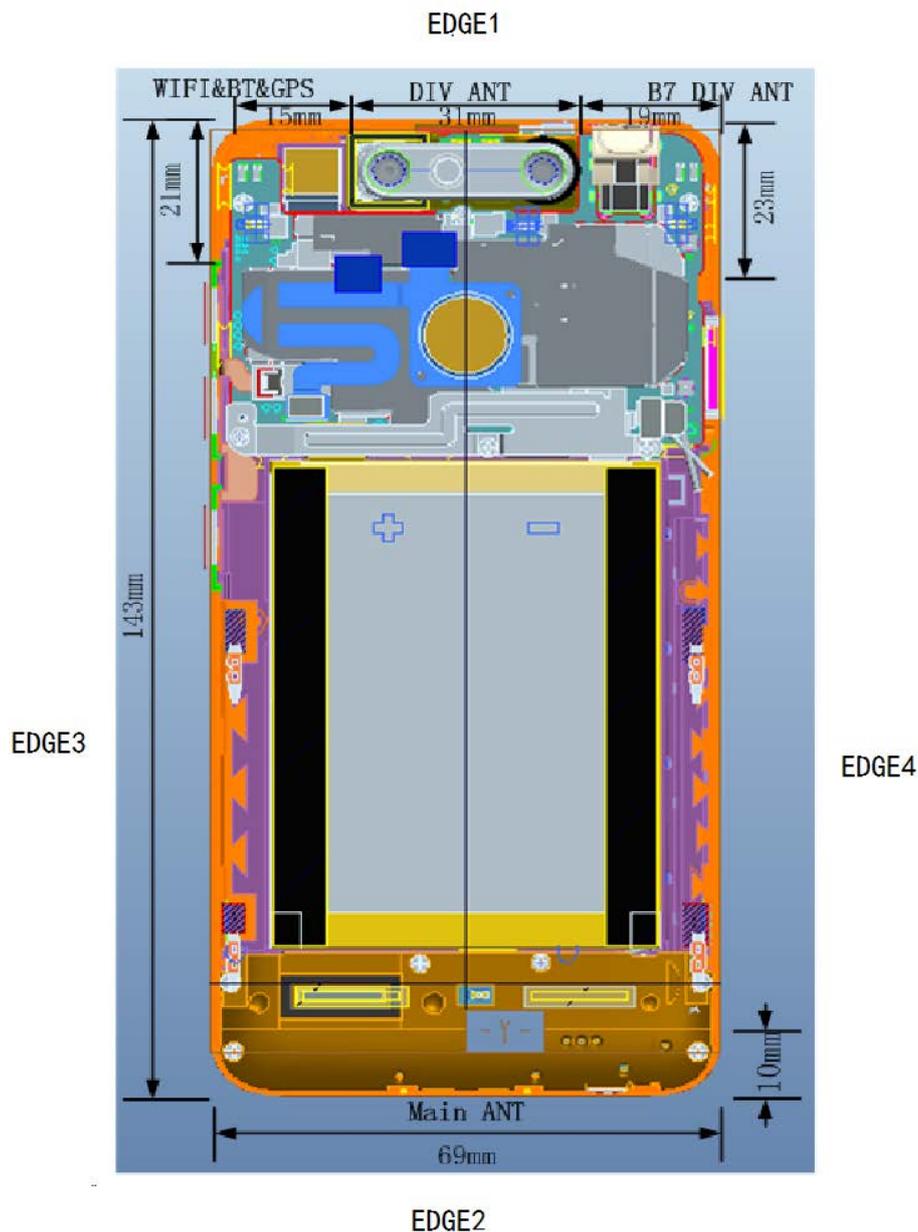
6.8.1 Head Exposure Conditions
For WWAN,

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 (top)	131 mm	No
Edge 2 (Bottom)	0 mm	Yes
Edge 3(Right)	7 mm	Yes
Edge 4(Left)	0 mm	Yes

For Wi-Fi

Test Configurations	Antenna-to-edge/surface	SAR Required
Rear	<25 mm	Yes
Front	<25 mm	Yes
Edge 1 (top)	0 mm	Yes
Edge 2 (Bottom)	137 mm	No
Edge 3(Right)	40 mm	No
Edge 4(Left)	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 (%)
2017.03.27	D835V2	Head	1g	2.35	9.38	0.21	±10
2017.03.27	D835V2	Body	1g	2.34	9.35	0.11	±10
2017.03.28	D1900V2	Head	1g	9.76	39.25	0.54	±10
2017.03.28	D1900V2	Body	1g	9.75	39.38	0.96	±10
2017.03.29	D2450V2	Head	1g	13.06	52.45	0.40	±10
2017.03.29	D2450V2	Body	1g	12.81	51.47	0.45	±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(%)
2017.03.27	Head 835	εr	42.11	41.50	1.47	±5
		σ[S/m]	0.91	0.90	1.11	±5
2017.03.27	Body 835	εr	53.85	55.20	2.45	±5
		σ[S/m]	0.98	0.97	1.03	±5
2017.03.28	Head 1900	εr	40.84	40.00	2.10	±5
		σ[S/m]	1.41	1.40	0.71	±5
2017.03.28	Body 1900	εr	52.18	53.30	2.10	±5
		σ[S/m]	1.53	1.52	0.66	±5
2017.03.29	Head 2450	εr	39.21	39.20	0.03	±5
		σ[S/m]	1.79	1.80	0.56	±5
2017.03.29	Body 2450	εr	52.04	52.70	1.25	±5
		σ[S/m]	1.97	1.95	1.03	±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., Nc > 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 ≤0.8W/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	32.48	33.50	----	----	----
		M	32.05	33.50	1.40	0.184	0.257
		H	32.19	33.50	----	----	----
Left Tilted		L	32.48	33.50	----	----	----
		M	32.05	33.50	1.40	0.125	0.175
		H	32.19	33.50	----	----	----
Right cheek		L	32.48	33.50	----	----	----
		M	32.05	33.50	1.40	0.208	0.290
		H	32.19	33.50	----	----	----
Right Tilted		L	32.48	33.50	----	----	----
		M	32.05	33.50	1.40	0.113	0.158
		H	32.19	33.50	----	----	----

Mode: GSM850 (GSM/GPRS)

fL(MHz)=824.2MHz   fM(MHz)=836.5MHz   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	32.48	33.50	----	----	----
		M	32.05	33.50	1.40	0.531	0.741
		H	32.19	33.50	----	----	----
	GPRS	L	27.88	29.50	----	----	----
		M	27.55	29.50	1.57	0.412	0.646
		H	27.69	29.50	----	----	----
	EGPRS	L	29.30	29.50	----	----	----
		M	29.20	29.50	1.07	0.418	0.448
		H	29.15	29.50	----	----	----
TP	GSM With headset	L	32.48	33.50	----	----	----
		M	32.05	33.50	1.40	0.303	0.423
		H	32.19	33.50	----	----	----
	GPRS	L	27.88	29.50	----	----	----
		M	27.55	29.50	1.57	0.261	0.409
		H	27.69	29.50	----	----	----
	EGPRS	L	29.30	29.50	----	----	----
		M	29.20	29.50	1.07	0.271	0.290
		H	29.15	29.50	----	----	----
Hotspot EDGE 2	GSM	M	32.05	33.50	1.40	0.512	0.715
Hotspot EDGE 3		M	32.05	33.50	1.40	0.068	0.095
Hotspot EDGE 4		M	32.05	33.50	1.40	0.243	0.339

Note: 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	29.73	30.50	----	----	----
		M	29.12	30.50	1.38	0.091	0.125
		H	29.17	30.50	----	----	----
Left Tilted		L	29.73	30.50	----	----	----
		M	29.12	30.50	1.38	0.046	0.063
		H	29.17	30.50	----	----	----
Right cheek		L	29.73	30.50	----	----	----
		M	29.12	30.50	1.38	0.155	0.213
		H	29.17	30.50	----	----	----
Right Tilted		L	29.73	30.50	----	----	----
		M	29.12	30.50	1.38	0.031	0.043
		H	29.17	30.50	----	----	----

Mode: GSM1900 (GSM/GPRS)

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	29.73	30.50	----	----	----
		M	29.12	30.50	1.37	0.330	0.453
		H	29.17	30.50	----	----	----
	GPRS	L	24.63	26.50	----	----	----
		M	24.79	26.50	1.48	0.763	1.131
		H	24.58	26.50	----	----	----
	EGPRS	L	26.74	27.00	----	----	----
		M	26.58	27.00	1.10	0.760	0.837
		H	26.60	27.00	----	----	----
TP	GSM With headset	L	29.73	30.50	----	----	----
		M	29.12	30.50	1.37	0.117	0.161
		H	29.17	30.50	----	----	----
	GPRS	L	24.63	26.50	----	----	----
		M	24.79	26.50	1.48	0.383	0.568
		H	24.58	26.50	----	----	----
	EGPRS	L	26.74	27.00	----	----	----
		M	26.58	27.00	1.10	0.378	0.416
		H	26.60	27.00	----	----	----
Hotspot EDGE 2	GPRS	M	24.79	26.50	1.48	0.285	0.423
Hotspot EDGE 3		M	24.79	26.50	1.48	0.148	0.219
Hotspot EDGE 4		M	24.79	26.50	1.48	0.290	0.430

Note: 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) 1 g Average	Reported Results (W/kg) 1g Average
position	mode						
Left cheek	RB test mode1+ 12.2kRMC	L	22.41	24.00	----	----	----
		M	22.28	24.00	1.49	0.113	0.168
		H	22.32	24.00	----	----	----
Left Tilted		L	22.41	24.00	----	----	----
		M	22.28	24.00	1.49	0.073	0.108
		H	22.32	24.00	----	----	----
Right cheek		L	22.41	24.00	----	----	----
		M	22.28	24.00	1.49	0.242	0.360
		H	22.32	24.00	----	----	----
Right Tilted		L	22.41	24.00	----	----	----
		M	22.28	24.00	1.49	0.045	0.067
		H	22.32	24.00	----	----	----

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 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)	RB test mode1+12.2kRMC with headset	L	22.41	24.00	----	----	----
		M	22.28	24.00	1.49	0.188	0.279
		H	22.32	24.00	----	----	----
TG (Data)		L	22.41	24.00	----	----	----
		M	22.28	24.00	1.49	0.413	0.614
		H	22.32	24.00	----	----	----
TP (Voice)	RB test mode1+12.2kRMC with headset	L	22.41	24.00	----	----	----
		M	22.28	24.00	1.49	0.188	0.279
		H	22.32	24.00	----	----	----
TP (Data)		L	22.41	24.00	----	----	----
		M	22.28	24.00	1.49	0.189	0.281
		H	22.32	24.00	----	----	----
Hotspot EDGE 2	RB test mode1+12.2kRMC with headset	M	22.28	24.00	1.49	0.468	0.695
Hotspot EDGE 3		M	22.28	24.00	1.49	0.073	0.108
Hotspot EDGE 4		M	22.28	24.00	1.49	0.072	0.107

Note: 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	RB test mode1+ 12.2kRMC	L	22.33	24.00	----	----	----
		M	22.41	24.00	1.46	0.24	0.349
		H	22.40	24.00	----	----	----
Left Tilted		L	22.33	24.00	----	----	----
		M	22.41	24.00	1.46	0.122	0.178
		H	22.40	24.00	----	----	----
Right cheek		L	22.33	24.00	----	----	----
		M	22.41	24.00	1.46	0.206	0.300
		H	22.40	24.00	----	----	----
Right Tilted		L	22.33	24.00	----	----	----
		M	22.41	24.00	1.46	0.108	0.157
		H	22.40	24.00	----	----	----

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)	RB test mode1+12.2kRMC with headset	L	22.33	24.00	----	----	----
		M	22.41	24.00	1.46	0.681	0.991
		H	22.40	24.00	----	----	----
TG (Data)		L	22.33	24.00	----	----	----
		M	22.41	24.00	1.46	0.7	1.019
		H	22.40	24.00	----	----	----
TP (Voice)	RB test mode1+12.2kRMC with headset	L	22.33	24.00	----	----	----
		M	22.41	24.00	1.46	0.415	0.604
		H	22.40	24.00	----	----	----
TP (Data)		L	22.33	24.00	----	----	----
		M	22.41	24.00	1.46	0.369	0.537
		H	22.40	24.00	----	----	----
Hotspot EDGE 2	RB test mode1+12.2kRMC with headset	M	22.41	24.00	1.46	0.671	0.977
Hotspot EDGE 3		M	22.41	24.00	1.46	0.129	0.188
Hotspot EDGE 4		M	22.41	24.00	1.46	0.184	0.268

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

Mode: WCDMA BAND5

fL(MHz)=826.4MHz   fM(MHz)=836.4MHz   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	RB test mode1+ 12.2kRMC	L	22.35	24.00	----	----	----
		M	22.21	24.00	1.51	0.18	0.272
		H	22.30	24.00	----	----	----
Left Tilted		L	22.35	24.00	----	----	----
		M	22.21	24.00	1.51	0.156	0.236
		H	22.30	24.00	----	----	----
Right cheek		L	22.35	24.00	----	----	----
		M	22.21	24.00	1.51	0.223	0.337
		H	22.30	24.00	----	----	----
Right Tilted		L	22.35	24.00	----	----	----
		M	22.21	24.00	1.51	0.154	0.233
		H	22.30	24.00	----	----	----

Mode: WCDMA BAND5

fL(MHz)=826.4MHz   fM(MHz)=836.5MHz   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)	RB test mode1+12.2kRMC with headset	L	22.35	24.00	----	----	----
		M	22.21	24.00	1.51	0.469	0.708
		H	22.30	24.00	----	----	----
TG (Data)		L	22.35	24.00	----	----	----
		M	22.21	24.00	1.51	0.464	0.701
		H	22.30	24.00	----	----	----
TP (Voice)	RB test mode1+12.2kRMC with headset	L	22.35	24.00	----	----	----
		M	22.21	24.00	1.51	0.311	0.470
		H	22.30	24.00	----	----	----
TP (Data)		L	22.35	24.00	----	----	----
		M	22.21	24.00	1.51	0.319	0.482
		H	22.30	24.00	----	----	----
Hotspot EDGE 2	RB test mode1+12.2kRMC with headset	M	22.21	24.00	1.51	0.151	0.228
Hotspot EDGE 3		M	22.21	24.00	1.51	0.365	0.551
Hotspot EDGE 4		M	22.21	24.00	1.51	0.287	0.433

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

Mode: WiFi
SAR Values (WIFI 802.11b - Head)
Limit of SAR (W/kg):<1.6W/kg(1g Average)

Test Case		CH	Measure Conducted Power (dBm)	Tune-up limit (dBm)	Scaling Factor	Measure Result (W/kg)	Reported Result (W/kg)
Position	mode					1 g Average	1 g Average
Leftcheek	1Mbps	1	16.52	18.00	1.41	0.296	0.416
		6	17.12	18.00	1.22	0.603	0.738
		11	16.16	18.00	1.53	0.360	0.550
Left Tilt	1Mbps	1	16.52	18.00	----	----	----
		6	17.12	18.00	1.22	0.517	0.633
		11	16.16	18.00	----	----	----
Rightcheek	1Mbps	1	16.52	18.00	----	----	----
		6	17.12	18.00	1.22	0.325	0.398
		11	16.16	18.00	----	----	----
Right Tilt	1Mbps	1	16.52	18.00	----	----	----
		6	17.12	18.00	1.22	0.261	0.320
		11	16.16	18.00	----	----	----

SAR Values (WIFI 802.11b - Body)
Limit of SAR (W/kg):<1.6W/kg(1g Average)

Test Case		CH	Measure Conducted Power (dBm)	Tune-up limit (dBm)	Scaling Factor	Measure Result (W/kg)	Reported Result (W/kg)
Position	mode					1 g Average	1g Average
TG	1Mbps	1	16.52	18.00	----	----	----
		6	17.12	18.00	1.22	0.345	0.422
		11	16.16	18.00	----	----	----
TP	1Mbps	1	16.52	18.00	----	----	----
		6	17.12	18.00	1.22	0.297	0.364
		11	16.16	18.00	----	----	----
Hotspot Edge 1	1Mbps	1	16.52	18.00	----	----	----
		6	17.12	18.00	1.22	0.142	0.174
		11	16.16	18.00	----	----	----
Hotspot Edge 4	1Mbps	1	16.52	18.00	----	----	----
		6	17.12	18.00	1.22	0.029	0.036
		11	16.16	18.00	----	----	----

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

Mode: LTE BAND2- 20BW-1RB (1880MHz/Head)

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	23.31	24.00	----	----	----
		M	23.40	24.00	1.15	0.124	0.142
		H	23.07	24.00	----	----	----
Left Tilted		L	23.31	24.00	----	----	----
		M	23.40	24.00	1.15	0.093	0.107
		H	23.07	24.00	----	----	----
Right cheek		L	23.31	24.00	----	----	----
		M	23.40	24.00	1.15	0.175	0.201
		H	23.07	24.00	----	----	----
Right Tilted		L	23.31	24.00	----	----	----
		M	23.40	24.00	1.15	0.060	0.069
		H	23.07	24.00	----	----	----

Mode: LTE BAND2- 20BW-1RB (1880MHz/Flat)

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	23.31	24.00	1.15	0.815	0.955
		M	23.40	24.00	1.15	0.827	0.950
		H	23.07	24.00	1.15	0.772	0.956
TP		L	23.31	24.00	----	----	----
		M	23.40	24.00	1.15	0.330	
		H	23.07	24.00	----	----	----
Hotspot EDGE 2		M	23.40	24.00	1.15	0.656	0.753
Hotspot EDGE 3		M	23.40	24.00	1.15	0.098	0.113
Hotspot EDGE 4		M	23.40	24.00	1.15	0.132	0.152

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

Mode: LTE BAND2- 20BW-50%RB (1880MHz/Head)

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	23.01	24.00	----	----	----
		M	22.94	24.00	1.28	0.107	0.137
		H	22.79	24.00	----	----	----
Left Tilted		L	23.01	24.00	----	----	----
		M	22.94	24.00	1.28	0.070	0.089
		H	22.79	24.00	----	----	----
Right cheek		L	23.01	24.00	----	----	----
		M	22.94	24.00	1.28	0.148	0.189
		H	22.79	24.00	----	----	----
Right Tilted		L	23.01	24.00	----	----	----
		M	22.94	24.00	1.28	0.043	0.055
		H	22.79	24.00	----	----	----

Mode: LTE BAND2- 20BW-50%RB (1880MHz/Flat)

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	23.01	24.00	----	----	----
		M	22.94	24.00	1.28	0.650	0.830
		H	22.79	24.00	----	----	----
TP	20 BW 50%RB	L	23.01	24.00	----	----	----
		M	22.94	24.00	1.28	0.247	0.315
		H	22.79	24.00	----	----	----

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

Mode: LTE BAND4- 15BW-1RB (1732.5MHz/Head)

fL(MHz)=1717.5 MHz   fM(MHz)=1732.5 MHz   fH(MHz)= 1747.5 MHz

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	15 BW 1RB	L	22.43	24.00	----	----	----
		M	22.86	24.00	1.30	0.247	0.321
		H	22.73	24.00	----	----	----
Left Tilted		L	22.43	24.00	----	----	----
		M	22.86	24.00	1.30	0.149	0.194
		H	22.73	24.00	----	----	----
Right cheek		L	22.43	24.00	----	----	----
		M	22.86	24.00	1.30	0.182	0.237
		H	22.73	24.00	----	----	----
Right Tilted		L	22.43	24.00	----	----	----
		M	22.86	24.00	1.30	0.081	0.105
		H	22.73	24.00	----	----	----

Mode: LTE BAND4- 15BW-1RB (1732.5MHz/ Flat)

fL(MHz)=1717.5 MHz   fM(MHz)=1732.5 MHz   fH(MHz)= 1747.5 MHz

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	15 BW 1RB	L	22.43	24.00	----	----	----
		M	22.86	24.00	1.30	0.781	1.015
		H	22.73	24.00	----	----	----
TP		L	22.43	24.00	----	----	----
		M	22.86	24.00	1.30	0.337	0.438
		H	22.73	24.00	----	----	----
Hotspot EDGE 2		M	22.86	24.00	1.30	0.678	0.882
Hotspot EDGE 3		M	22.86	24.00	1.30	0.413	0.537
Hotspot EDGE 4		M	22.86	24.00	1.30	0.348	0.452

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

Mode: LTE BAND4- 20BW-1RB (1732.5MHz/Head)
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 1RB	L	22.46	24.00	----	----	----
		M	22.66	24.00	1.36	0.225	0.306
		H	22.60	24.00	----	----	----
Left Tilted		L	22.46	24.00	----	----	----
		M	22.66	24.00	1.36	0.092	0.125
		H	22.60	24.00	----	----	----
Right cheek		L	22.46	24.00	----	----	----
		M	22.66	24.00	1.36	0.198	0.270
		H	22.60	24.00	----	----	----
Right Tilted		L	22.46	24.00	----	----	----
		M	22.66	24.00	1.36	0.073	0.099
		H	22.60	24.00	----	----	----

Mode: LTE BAND4- 20BW-1RB (1732.5MHz/ Flat)
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)

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	22.46	24.00	----	----	----
		M	22.66	24.00	1.36	0.679	0.924
		H	22.60	24.00	----	----	----
TP		L	22.46	24.00	----	----	----
		M	22.66	24.00	1.36	0.382	0.520
		H	22.60	24.00	----	----	----

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

Mode: LTE BAND4- 20BW-50%RB (1732.5MHz/Head)
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	22.21	24.00	----	----	----
		M	22.59	24.00	1.38	0.213	0.295
		H	22.51	24.00	----	----	----
Left Tilted		L	22.21	24.00	----	----	----
		M	22.59	24.00	1.38	0.118	0.163
		H	22.51	24.00	----	----	----
Right cheek		L	22.21	24.00	----	----	----
		M	22.59	24.00	1.38	0.175	0.242
		H	22.51	24.00	----	----	----
Right Tilted		L	22.21	24.00	----	----	----
		M	22.59	24.00	1.38	0.063	0.087
		H	22.51	24.00	----	----	----

Mode: LTE BAND4- 20BW-50%RB (1732.5MHz/ Flat)
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)

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	22.21	24.00	----	----	----
		M	22.59	24.00	1.38	0.705	0.975
		H	22.51	24.00	----	----	----
TP		L	22.21	24.00	----	----	----
		M	22.59	24.00	1.38	0.341	0.472
		H	22.51	24.00	----	----	----

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

Mode: LTE BAND5- 10BW-1RB (836.5MHz/Head)

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	22.98	24.00	----	----	----
		M	23.34	24.00	1.16	0.141	0.164
		H	22.93	24.00	----	----	----
Left Tilted		L	22.98	24.00	----	----	----
		M	23.34	24.00	1.16	0.088	0.102
		H	22.93	24.00	----	----	----
Right cheek		L	22.98	24.00	----	----	----
		M	23.34	24.00	1.16	0.175	0.204
		H	22.93	24.00	----	----	----
Right Tilted		L	22.98	24.00	----	----	----
		M	23.34	24.00	1.16	0.087	0.101
		H	22.93	24.00	----	----	----

Mode: LTE BAND5- 10BW-1RB (836.5MHz/Flat)

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

SAR Values（body，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					1g Average	1g Average
TG	10 BW 1RB	L	22.98	24.00	----	----	----
		M	23.34	24.00	1.16	0.298	0.347
		H	22.93	24.00	----	----	----
TP		L	22.98	24.00	----	----	----
		M	23.34	24.00	1.16	0.263	0.306
		H	22.93	24.00	----	----	----
Hotspot EDGE2		M	23.34	24.00	1.16	0.080	0.093
Hotspot EDGE3		M	23.34	24.00	1.16	0.189	0.220
Hotspot EDGE4		M	23.34	24.00	1.16	0.129	0.150

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

Mode: LTE BAND5- 10BW-50%RB (836.5MHz/Head)

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	22.81	24.00	----	----	----
		M	22.97	24.00	1.27	0.081	0.103
		H	22.81	24.00	----	----	----
Left Tilted		L	22.81	24.00	----	----	----
		M	22.97	24.00	1.27	0.055	0.070
		H	22.81	24.00	----	----	----
Right cheek		L	22.81	24.00	----	----	----
		M	22.97	24.00	1.27	0.106	0.134
		H	22.81	24.00	----	----	----
Right Tilted		L	22.81	24.00	----	----	----
		M	22.97	24.00	1.27	0.056	0.071
		H	22.81	24.00	----	----	----

Mode: LTE BAND5- 10BW-50%RB (836.5MHz/Flat)

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

SAR Values（body，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					1g Average	1g Average
TG	10 BW 50%RB	L	22.81	24.00	----	----	----
		M	22.97	24.00	1.27	0.239	0.303
		H	22.81	24.00	----	----	----
TP		L	22.81	24.00	----	----	----
		M	22.97	24.00	1.27	0.154	0.195
		H	22.81	24.00	----	----	----
Hotspot EDGE2		L	22.81	24.00	1.32	0.707	0.930
		M	22.97	24.00	1.27	0.795	1.008
		H	22.81	24.00	1.32	0.729	0.959
Hotspot EDGE3		M	22.97	24.00	1.27	0.222	0.281
Hotspot EDGE4		M	22.97	24.00	1.27	0.510	0.647

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

Mode: LTE BAND7- 20BW-1RB (2535MHz/Head)

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	22.98	24.00	----	----	----
		M	23.34	24.00	1.16	0.472	0.604
		H	22.93	24.00	----	----	----
Left Tilted		L	22.98	24.00	----	----	----
		M	23.34	24.00	1.16	0.151	0.176
		H	22.93	24.00	----	----	----
Right cheek		L	22.98	24.00	----	----	----
		M	23.34	24.00	1.16	0.234	0.272
		H	22.93	24.00	----	----	----
Right Tilted		L	22.98	24.00	----	----	----
		M	23.34	24.00	1.16	0.102	0.119
		H	22.93	24.00	----	----	----

Mode: LTE BAND7- 20BW-1RB (2535MHz/Flat)

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					1g Average	1g Average
TG	20 BW 50%RB	L	22.98	24.00	----	----	----
		M	23.34	24.00	1.16	0.633	0.737
		H	22.93	24.00	----	----	----
TP		L	22.98	24.00	----	----	----
		M	23.34	24.00	1.16	0.305	0.355
		H	22.93	24.00	----	----	----
Hotspot EDGE2		M	23.34	24.00	1.16	0.361	0.420
Hotspot EDGE3		M	23.34	24.00	1.16	0.107	0.125
Hotspot EDGE4		M	23.34	24.00	1.16	0.199	0.232

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

Mode: LTE BAND7- 20BW-50%RB (2535MHz/Head)
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	22.81	24.00	----	----	----
		M	22.97	24.00	1.27	0.401	0.508
		H	22.81	24.00	----	----	----
Left Tilted		L	22.81	24.00	----	----	----
		M	22.97	24.00	1.27	0.108	0.137
		H	22.81	24.00	----	----	----
Right cheek		L	22.81	24.00	----	----	----
		M	22.97	24.00	1.27	0.167	0.212
		H	22.81	24.00	----	----	----
Right Tilted		L	22.81	24.00	----	----	----
		M	22.97	24.00	1.27	0.058	0.074
		H	22.81	24.00	----	----	----

Mode: LTE BAND7- 20BW-50%RB (2535MHz/Flat)
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	22.81	24.00	----	----	----
		M	22.97	24.00	1.27	0.487	0.617
		H	22.81	24.00	----	----	----
TP	20 BW 50%RB	L	22.81	24.00	----	----	----
		M	22.97	24.00	1.27	0.264	0.335
		H	22.81	24.00	----	----	----

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

Mode: LTE BAND7- 20BW-100%RB (2535MHz/Head)

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 100%RB	L	22.83	24.00	----	----	----
		M	22.98	24.00	1.26	0.401	0.507
		H	22.63	24.00	----	----	----
Left Tilted		L	22.83	24.00	----	----	----
		M	22.98	24.00	1.26	0.209	0.264
		H	22.63	24.00	----	----	----
Right cheek		L	22.83	24.00	----	----	----
		M	22.98	24.00	1.26	0.193	0.244
		H	22.63	24.00	----	----	----
Right Tilted		L	22.83	24.00	----	----	----
		M	22.98	24.00	1.26	0.090	0.114
		H	22.63	24.00	----	----	----

Mode: LTE BAND7- 20BW-100%RB (2535MHz/Flat)

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 100%RB	L	22.83	24.00	----	----	----
		M	22.98	24.00	1.26	0.525	0.664
		H	22.63	24.00	----	----	----
TP	20 BW 100%RB	L	22.83	24.00	----	----	----
		M	22.98	24.00	1.26	0.281	0.355
		H	22.63	24.00	----	----	----

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

Mode: LTE BAND12- 10BW-1RB (707.5MHz/Head)

fL(MHz)=704 MHz   fM(MHz)=707.5MHz   fH(MHz)= 711MHz

SAR Values（Head，LTE BAND12）

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	22.98	24.00	----	----	----
		M	23.34	24.00	1.16	0.074	0.086
		H	22.93	24.00	----	----	----
Left Tilted		L	22.98	24.00	----	----	----
		M	23.34	24.00	1.16	0.065	0.076
		H	22.93	24.00	----	----	----
Right cheek		L	22.98	24.00	----	----	----
		M	23.34	24.00	1.16	0.089	0.104
		H	22.93	24.00	----	----	----
Right Tilted		L	22.98	24.00	----	----	----
		M	23.34	24.00	1.16	0.051	0.059
		H	22.93	24.00	----	----	----

Mode: LTE BAND12- 10BW-1RB (707.5MHz/Flat)

fL(MHz)=704 MHz   fM(MHz)=707.5MHz   fH(MHz)= 711MHz

SAR Values（body，LTE BAND12）

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
TG	10 BW 1RB	L	22.98	24.00	----	----	----
		M	23.34	24.00	1.16	0.092	0.107
		H	22.93	24.00	----	----	----
TP		L	22.98	24.00	----	----	----
		M	23.34	24.00	1.16	0.032	0.037
		H	22.93	24.00	----	----	----

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

Mode: LTE BAND12- 10BW-50%RB (707.5MHz/Head)

fL(MHz)=704 MHz   fM(MHz)=707.5MHz   fH(MHz)= 711MHz

SAR Values（Head，LTE BAND12）

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	22.81	24.00	----	----	----
		M	22.97	24.00	1.27	0.070	0.089
		H	22.81	24.00	----	----	----
Left Tilted		L	22.81	24.00	----	----	----
		M	22.97	24.00	1.27	0.047	0.060
		H	22.81	24.00	----	----	----
Right cheek		L	22.81	24.00	----	----	----
		M	22.97	24.00	1.27	0.082	0.104
		H	22.81	24.00	----	----	----
Right Tilted		L	22.81	24.00	----	----	----
		M	22.97	24.00	1.27	0.051	0.065
		H	22.81	24.00	----	----	----

Mode: LTE BAND12- 10BW-50%RB (707.5MHz/Flat)

fL(MHz)=704 MHz   fM(MHz)=707.5MHz   fH(MHz)= 711MHz

SAR Values（body，LTE BAND12）

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
TG	10 BW 50%RB	L	22.81	24.00	----	----	----
		M	22.97	24.00	1.27	0.096	0.122
		H	22.81	24.00	----	----	----
TP		L	22.81	24.00	----	----	----
		M	22.97	24.00	1.27	0.033	0.042
		H	22.81	24.00	----	----	----
Hotspot EDGE2		M	22.97	24.00	1.27	0.051	0.065
Hotspot EDGE3		M	22.97	24.00	1.27	0.139	0.176
Hotspot EDGE4		M	22.97	24.00	1.27	0.086	0.109

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

Mode: LTE BAND13- 10BW-1RB (782MHz/Head)
fL(MHz)=782 MHz   fM(MHz)=782MHz   fH(MHz)= 782MHz
SAR Values（Head，LTE BAND13）
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	23.10	24.00	----	----	----
		M	23.20	24.00	1.20	0.121	0.145
		H	22.88	24.00	----	----	----
Left Tilted		L	23.10	24.00	----	----	----
		M	23.20	24.00	1.20	0.063	0.076
		H	22.88	24.00	----	----	----
Right cheek		L	23.10	24.00	----	----	----
		M	23.20	24.00	1.20	0.158	0.190
		H	22.88	24.00	----	----	----
Right Tilted		L	23.10	24.00	----	----	----
		M	23.20	24.00	1.20	0.070	0.084
		H	22.88	24.00	----	----	----

Mode: LTE BAND13- 10BW-1RB (782MHz/Flat)
fL(MHz)=782 MHz   fM(MHz)=782MHz   fH(MHz)= 782MHz
SAR Values（body，LTE BAND13）
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
TG	10 BW 1RB	L	23.10	24.00	----	----	----
		M	23.20	24.00	1.20	0.082	0.099
		H	22.88	24.00	----	----	----
TP		L	23.10	24.00	----	----	----
		M	23.20	24.00	1.20	0.055	0.066
		H	22.88	24.00	----	----	----

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

Mode: LTE BAND13- 10BW-50%RB (782MHz/Head)
fL(MHz)=782 MHz   fM(MHz)=782MHz   fH(MHz)= 782MHz
SAR Values（Head，LTE BAND13）
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	22.92	24.00	----	----	----
		M	22.94	24.00	1.28	0.103	0.131
		H	22.81	24.00	----	----	----
Left Tilted		L	22.92	24.00	----	----	----
		M	22.94	24.00	1.28	0.052	0.066
		H	22.81	24.00	----	----	----
Right cheek		L	22.92	24.00	----	----	----
		M	22.94	24.00	1.28	0.135	0.172
		H	22.81	24.00	----	----	----
Right Tilted		L	22.92	24.00	----	----	----
		M	22.94	24.00	1.28	0.068	0.087
		H	22.81	24.00	----	----	----

Mode: LTE BAND13- 10BW-50%RB (782MHz/Flat)
fL(MHz)=782 MHz   fM(MHz)=782MHz   fH(MHz)= 782MHz
SAR Values（body，LTE BAND13）
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
TG	10 BW 50%RB	L	22.92	24.00	----	----	----
		M	22.94	24.00	1.28	0.203	0.259
		H	22.81	24.00	----	----	----
TP		L	22.92	24.00	----	----	----
		M	22.94	24.00	1.28	0.133	0.170
		H	22.81	24.00	----	----	----
Hotspot EDGE2		M	22.94	24.00	1.28	0.085	0.108
Hotspot EDGE3		M	22.94	24.00	1.28	0.153	0.195
Hotspot EDGE4		M	22.94	24.00	1.28	0.099	0.126

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 ≥ 0.80 W/kg, repeat that measurement once.

3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

6.11.1 The Highest Measured SAR configuration in Each Frequency Band

Frequency band(MHz)	Air interface	Head(w/kg)	Body(w/kg)
850	GSM 850 WCDMA Band 5 LTE Band 5 LTE Band 12 LTE Band 13	<0.8	<0.8
1900	GSM1900 WCDMA Band 2 WCDMA Band 4 LTE Band 4 LTE Band 7	<0.8	>0.8
1950	LTE Band 2	<0.8	>0.8
2450	WiFi 802.11b/g/n	<0.8	<0.8

6.11.2 Repeated Measurement Results

SAR Measurement Variability

Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR(W/kg)
LTE Band 2	0.815	0.801	1.02	/
LTE Band 2	0.827	0.806	1.03	/

6.12 Simultaneous Transmission SAR Analysis

The sum of SAR values for GSM & WiFi

	MAXIMUM SAR VALUE FOR HEAD	MAXIMUM SAR VALUE FOR BODY
GSM	0.257	1.131
WiFi	0.738	0.422
Sum	**0.995**	**1.554**
Note	**GSM850+WIFI Left cheek**	**GPRS1900+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
WCDMA	0.349	1.019
WiFi	0.738	0.422
Sum	**1.088**	**1.441**
Note	**WCDMA B4+WIFI Left cheek**	**WCDMA B4+WIFI TG**

According to the above tables, the sum of SAR values for WCDMA 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
LTE	0.604	1.015
WiFi	0.738	0.422
Sum	**1.342**	**1.438**
Note	**LTE B7+WIFI Left cheek**	**LTE B4+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:

[(max.power of channel, including tune-up tolerance,mw)/(min.test separation distance,mm)]

[$\sqrt{f(GHz)}/x$] W/kg for test separation distances≤50mm.

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
GSM	0.290	1.131
Bluetooth	0.260	0.260
Sum	**0.550**	**1.391**

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
WCDMA	0.359	1.019
Bluetooth	0.260	0.260
Sum	**0.620**	**1.279**

According to the above tables, the sum of SAR values for WCDMA 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
LTE	0.603	1.015
Bluetooth	0.260	0.260
Sum	**0.864**	**1.275**

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
Measurement system								
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%	∞
Test Sample Related								
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%	∞
Phantom and Setup								
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
Expanded STD Uncertainty						**±21.7%**	**±21.4%**	

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:

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	D1800V2	2d084	2016.08.19	2017.08.18
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
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

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: ± 0.2 dB (30 MHz to 4 GHz)
Optical Surface Detection	± 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 µW/g to > 100 W/kg; Linearity: ± 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: ± 0.2 dB (30 MHz to 6 GHz)
Optical Surface Detection	± 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 µW/g to > 100 W/kg Linearity: ± 0.2 dB (noise: typically < 1 µW/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

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

Medium parameters used (extrapolated): f = 835 MHz; σ = 0.909 S/m; ε_r = 42.108; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard:DASY5 (IEEE 1528-2013)

DASY Configuration:

- Probe: ES3DV3 - SN3127; ConvF(5.97, 5.97, 5.97); Calibrated: 8/21/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn546; Calibrated: 8/19/2015
- Phantom: SAM 1559; Type: SAM; Serial: 1559
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Performance Check at Frequencies 835MHz Head/d=15mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Area Scan (10x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.98 W/kg

System Performance Check at Frequencies 835MHz Head/d=15mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.113 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.55 W/kg

SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.53 W/kg

Maximum value of SAR (measured) = 2.98 W/kg

SYSTEM CHECKING SCANS	835MHz Flat

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

Medium parameters used (extrapolated): f = 835 MHz; σ = 0.978 S/m; $ε_r$ = 53.846; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE 1528-2013)

DASY Configuration:

- Probe: ES3DV3 - SN3127; ConvF(5.88, 5.88, 5.88); Calibrated: 8/21/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = -18.0, 32.0
- Electronics: DAE4 Sn546; Calibrated: 8/19/2015
- Phantom: SAM 1559; Type: SAM; Serial: 1559
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Performance Check at Frequencies 835MHz Flat/d=15mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.55 W/kg

System Performance Check at Frequencies 835MHz Flat/d=15mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.044 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.54 W/kg

SAR(1 g) = 2.34 W/kg; SAR(10 g) = 1.53 W/kg

Maximum value of SAR (measured) = 2.87 W/kg

SYSTEM CHECKING SCANS	1900MHz Head

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

Medium parameters used: f = 1900 MHz; σ = 1.41 S/m; $ε_r$ = 40.84; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard:DASY5 (IEEE 1528-2013)

DASY Configuration:

- Probe: ES3DV3 - SN3127; ConvF(4.94, 4.94, 4.94); Calibrated: 8/21/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn546; Calibrated: 8/19/2015
- Phantom: SAM 1560; Type: SAM; Serial: 1560
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Performance Check at Frequencies 1900MHz Head/d=10mm, Pin=250mW, dist=2.0mm (EX-Probe)/Area Scan (9x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 14.0 W/kg

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

Reference Value = 95.996 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 20.8 W/kg

SAR(1 g) = 9.76 W/kg; SAR(10 g) = 5.47 W/kg

Maximum value of SAR (measured) = 15.9 W/kg
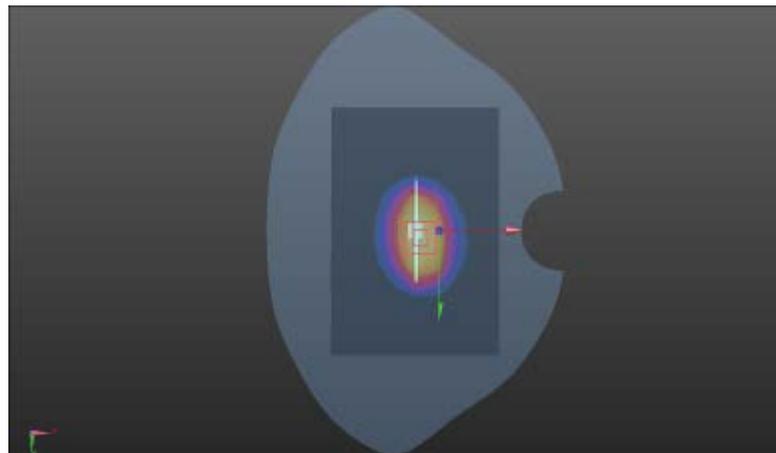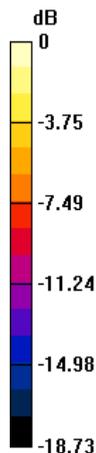
SYSTEM CHECKING SCANS	1900MHz Flat

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

Medium parameters used: f = 1900 MHz; σ = 1.53 S/m; $ε_r$ = 52.184; ρ = 1000 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: 8/21/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn546; Calibrated: 8/19/2015
- 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=15mm, dy=15mm

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

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

Peak SAR (extrapolated) = 19.2 W/kg

SAR(1 g) = 9.75 W/kg; SAR(10 g) = 5.64 W/kg

Maximum value of SAR (measured) = 14.5 W/kg
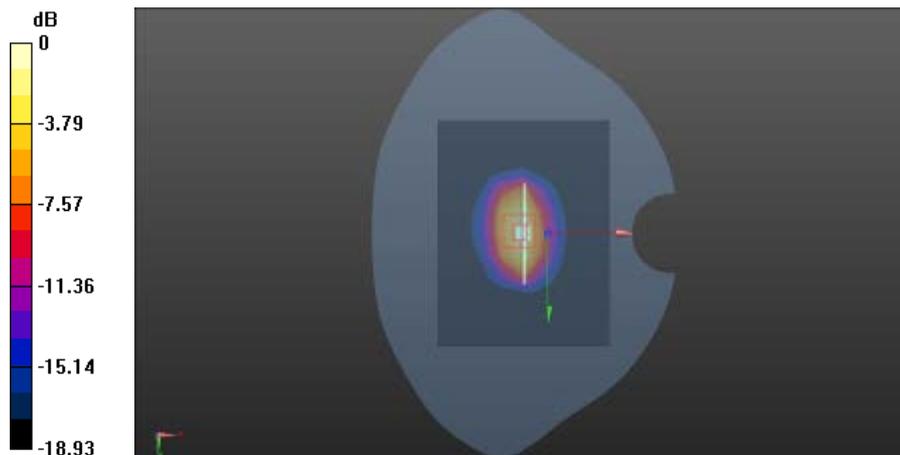
SYSTEM CHECKING SCANS	2450 MHz Head

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

Medium parameters used: f = 2450 MHz; σ = 1.79 S/m; ε_r = 39.208; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(4.35, 4.35, 4.35); Calibrated: 2015/8/21;
- 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 Head/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 17.1 W/kg

System Performance Check at Frequencies 2450MHz Head/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 = 102.2 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 28.8 W/kg

SAR(1 g) = 13.06 W/kg; SAR(10 g) = 5.92 W/kg

Maximum value of SAR (measured) = 17.0 W/kg
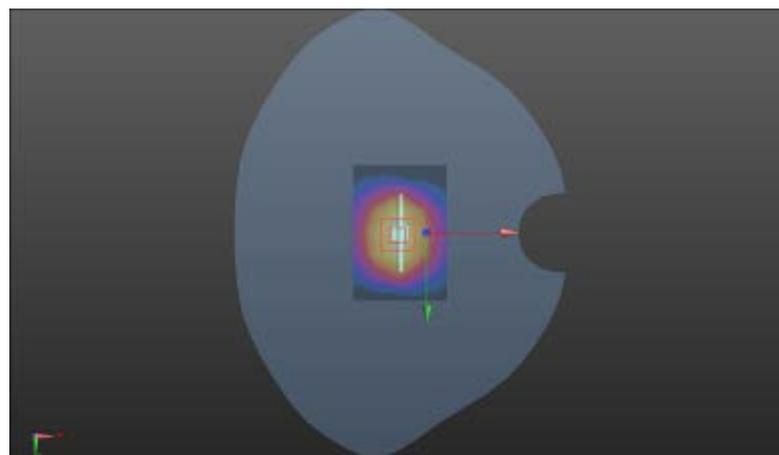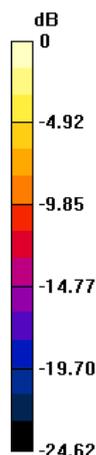
SYSTEM CHECKING SCANS	2450MHz Flat

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

Medium parameters used: f = 2450 MHz; σ = 1.965 S/m; $ε_r$ = 52.042; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(4.19, 4.19, 4.19); Calibrated: 2015/8/21;
- 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) = 17.1 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
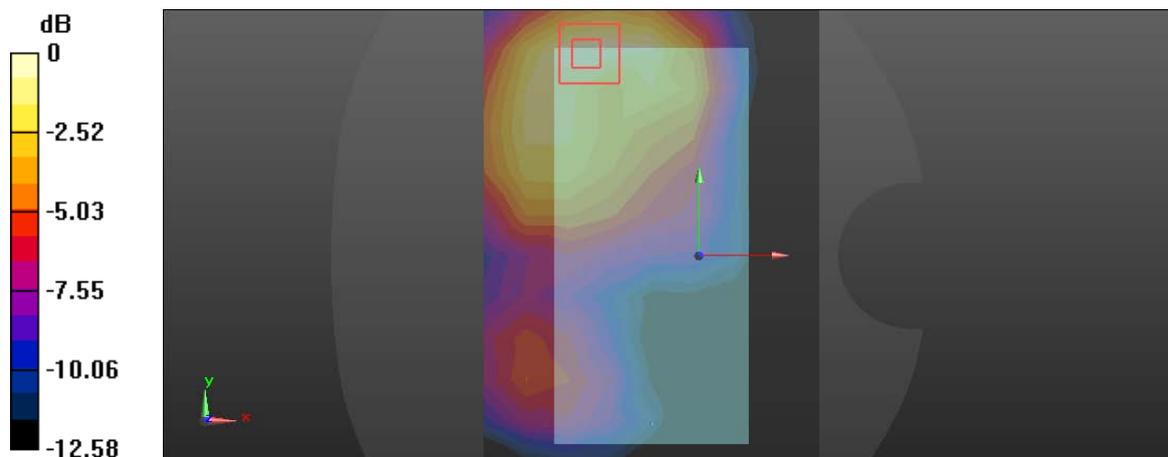
Reference Value = 104.3 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 28.0 W/kg

SAR(1 g) = 12.81 W/kg; SAR(10 g) = 5.78 W/kg

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

GSM (850MHz/Head)

Left Side	Cheek

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; σ = 0.89 S/m; ε $_r$ = 41.478; ρ = 1000 kg/m^3

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL 850/850GSM HSL touch M/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.187 W/kg

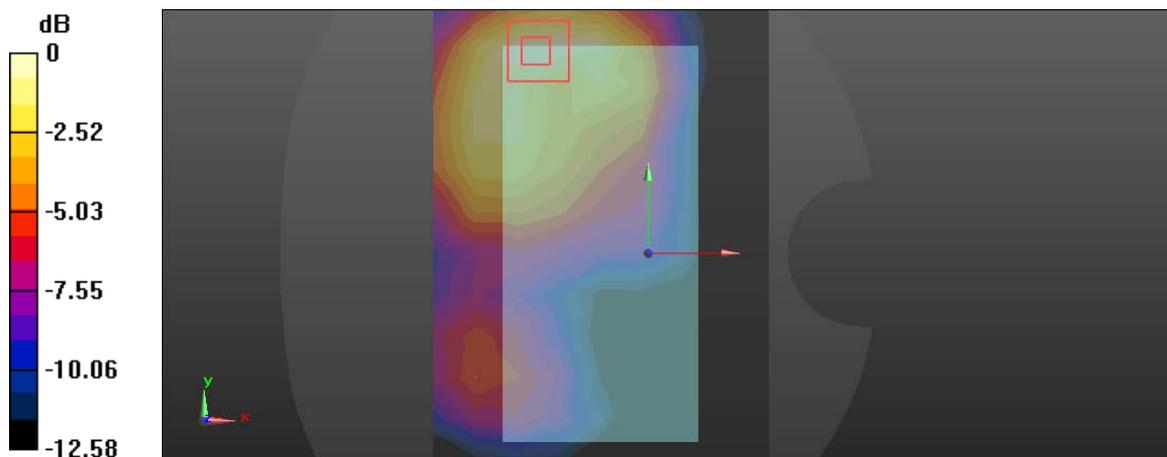### Head-Section Left HSL 850/850GSM HSL touch M/Zoom Scan (7x7x7)/Cube

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

Reference Value = 6.219 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.244 W/kg
SAR(1 g) = 0.184 W/kg; SAR(10 g) = 0.142 W/kg
Maximum value of SAR (measured) = 0.203 W/kg

0 dB = 0.203 W/kg = -6.93 dBW/kg

Left Side	Tilt

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; σ = 0.89 S/m; ε$_r$ = 41.478; ρ = 1000 kg/m^3

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL 850/850GSM HSL tilt M/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.128 W/kg

Head-Section Left HSL 850/850GSM HSL tilt M/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.74 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 0.164 W/kg
SAR(1 g) = 0.125 W/kg; SAR(10 g) = 0.095 W/kg
Maximum value of SAR (measured) = 0.133 W/kg

0 dB = 0.133 W/kg = -8.76 dBW/kg

Right Side	**Cheek**

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; σ = 0.89 S/m; $ε_r$ = 41.478; ρ = 1000 kg/m^3

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Right HSL 850/850GSM HSL touch M/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.214 W/kg

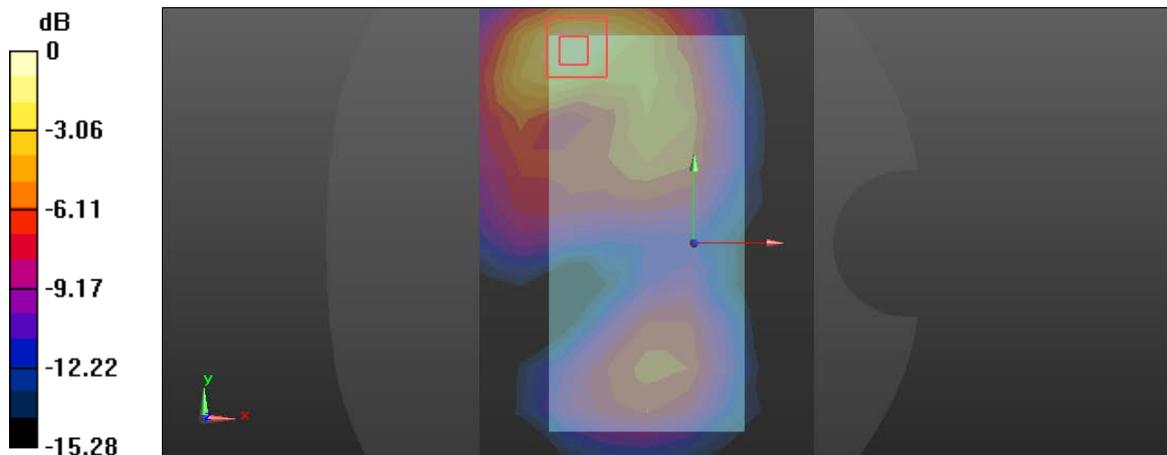### Head-Section Right HSL 850/850GSM HSL touch M/Zoom Scan (7x7x7)/Cube

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

Reference Value = 6.332 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.262 W/kg

SAR(1 g) = 0.208 W/kg; SAR(10 g) = 0.159 W/kg

Maximum value of SAR (measured) = 0.218 W/kg

0 dB = 0.218 W/kg = -6.62 dBW/kg

Right Side	**Tilt**

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; σ = 0.89 S/m; ε $_r$ = 41.478; ρ = 1000 kg/m^3

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Right HSL 850/850GSM HSL tilt M/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.118 W/kg

Head-Section Right HSL 850/850GSM HSL tilt M/Zoom Scan (7x7x7)/Cube

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

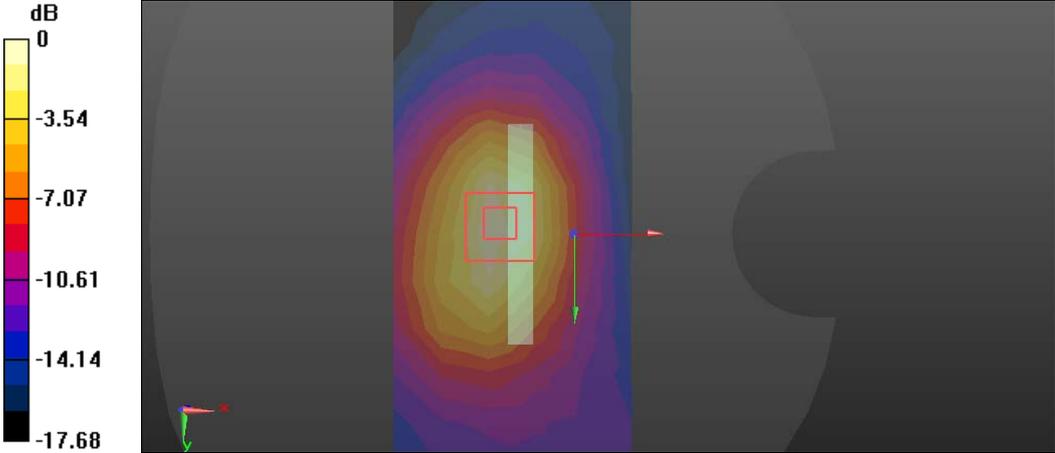Reference Value = 9.361 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.141 W/kg
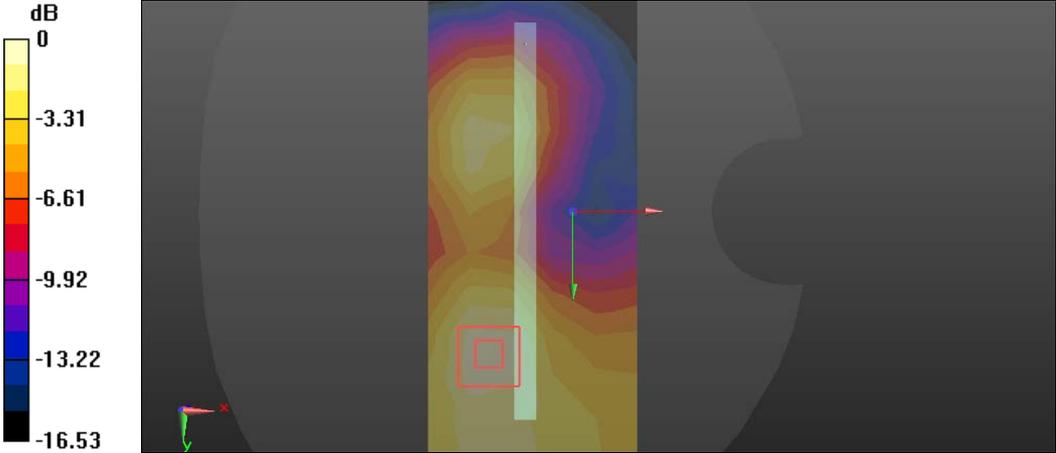**SAR(1 g) = 0.113 W/kg; SAR(10 g) = 0.087 W/kg**
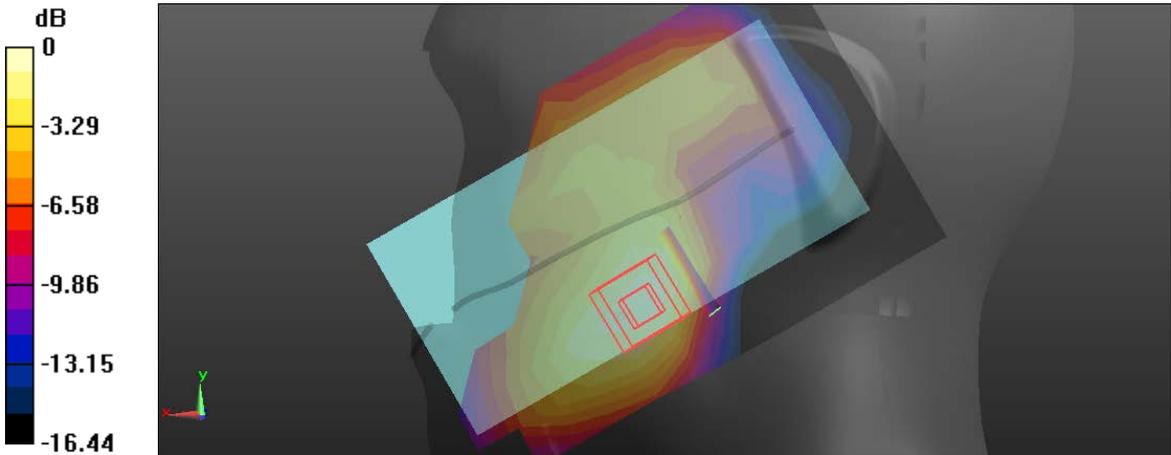Maximum value of SAR (measured) = 0.119 W/kg
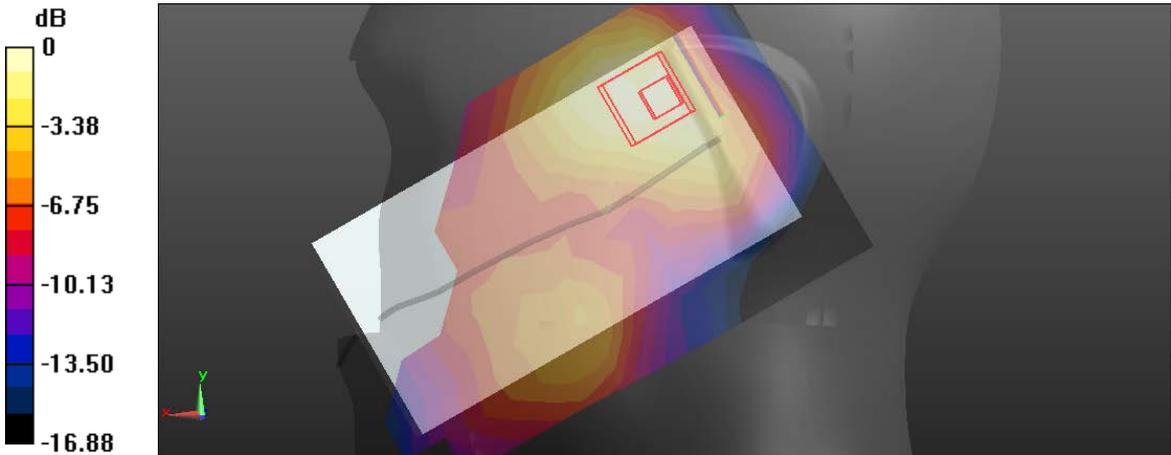

0 dB = 0.119 W/kg = -9.24 dBW/kg

GSM with headset (850MHz/Flat)

FLAT	Towards phantom

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; σ = 0.96 S/m; $ε_r$ = 55.858; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL 850 TP/850GSM TP M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.314 W/kg

Flat-Section MSL 850 TP/850GSM TP M 10mm/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 16.86 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.391 W/kg

SAR(1 g) = 0.303 W/kg; SAR(10 g) = 0.229 W/kg

Maximum value of SAR (measured) = 0.317 W/kg
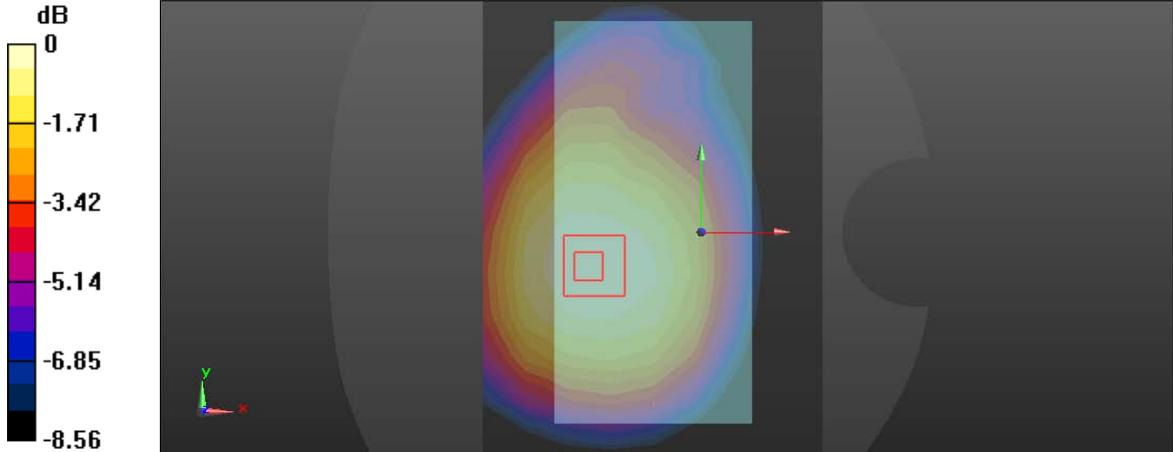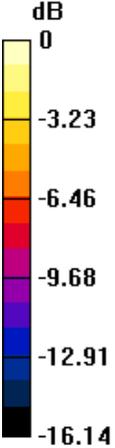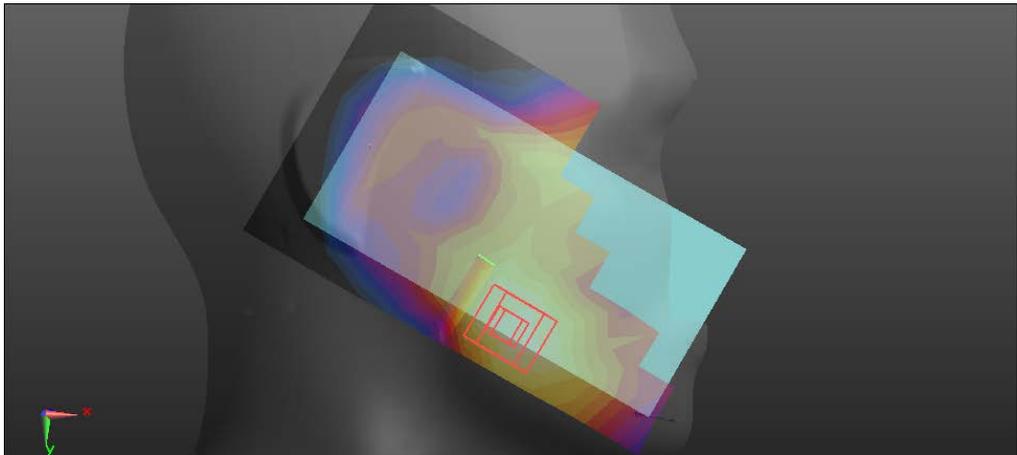

0 dB = 0.317 W/kg = -4.99 dBW/kg

FLAT	**Towards ground**

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; σ = 0.96 S/m; ε $_r$ = 55.858; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL 850 TG/850GSM TG M 10mm/Area Scan (9x13x1): Measurement

grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.554 W/kg

Flat-Section MSL 850 TG/850GSM TG M 10mm/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 23.69 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.686 W/kg

SAR(1 g) = 0.531 W/kg; SAR(10 g) = 0.402 W/kg

Maximum value of SAR (measured) = 0.557 W/kg
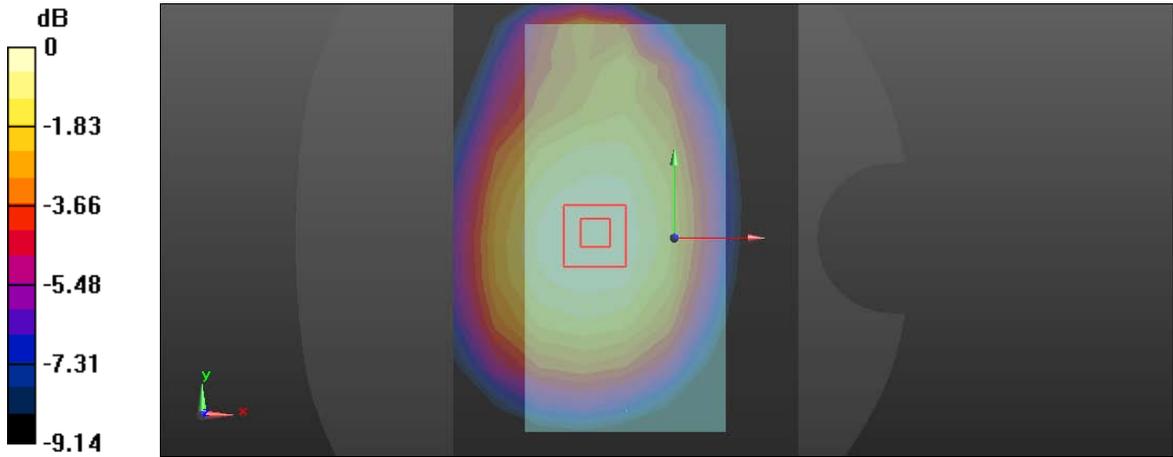
0 dB = 0.557 W/kg = -2.54 dBW/kg

GSM (850MHz with GPRS/Flat)

FLAT	Towards phantom

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; σ = 0.96 S/m; ε_r = 55.858; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL 850 TP/850GPRS TP M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.267 W/kg

Flat-Section MSL 850 TP/850GPRS TP M 10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.73 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.342 W/kg
SAR(1 g) = 0.261 W/kg; SAR(10 g) = 0.197 W/kg
Maximum value of SAR (measured) = 0.274 W/kg
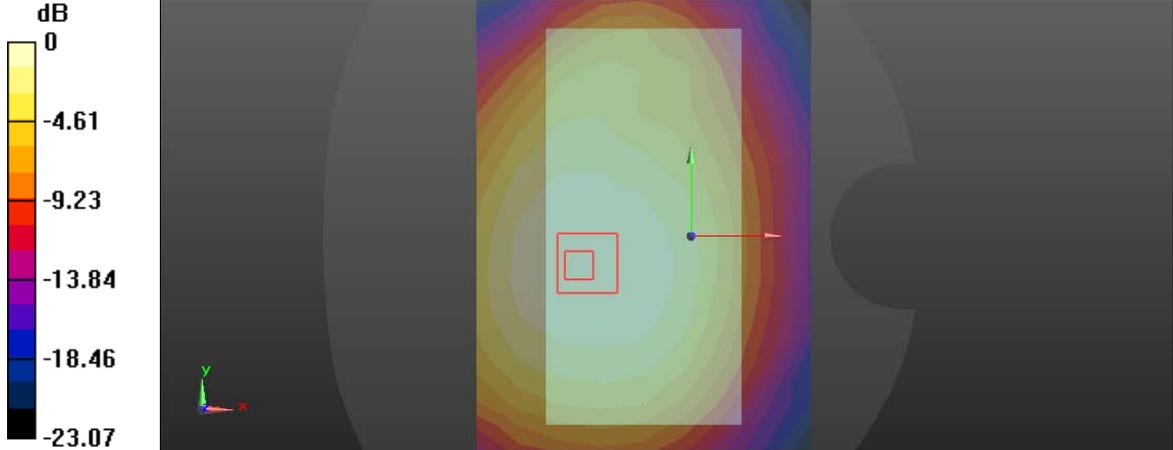
0 dB = 0.274 W/kg = -5.62 dBW/kg

FLAT	Towards ground

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; σ = 0.96 S/m; ε $_r$ = 55.858; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL 850 TG/850GPRS TG M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.434 W/kg

Flat-Section MSL 850 TG/850GPRS TG M 10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 21.07 V/m; Power Drift = −0.06 dB
Peak SAR (extrapolated) = 0.535 W/kg
SAR(1 g) = 0.412 W/kg; SAR(10 g) = 0.310 W/kg
Maximum value of SAR (measured) = 0.431 W/kg
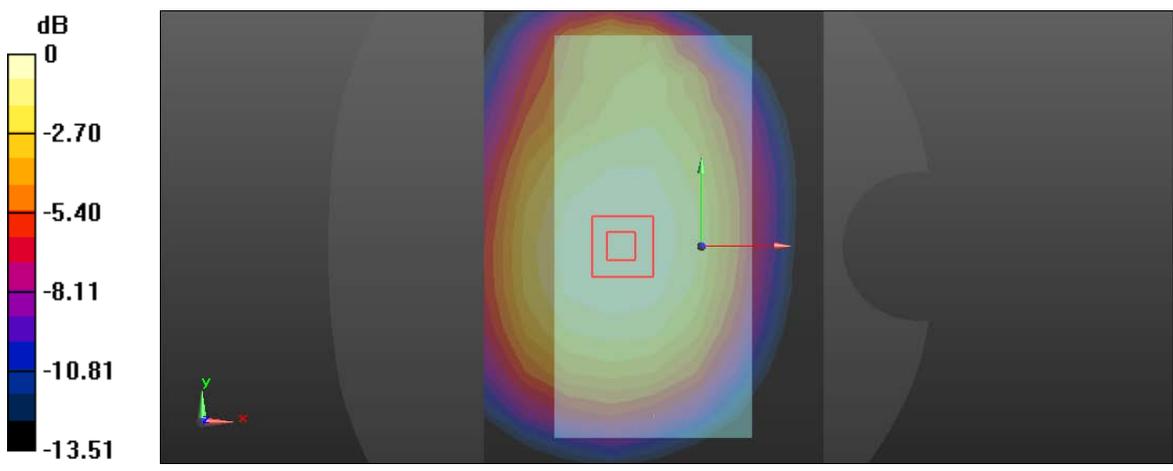
0 dB = 0.431 W/kg = −3.66 dBW/kg

GSM (850MHz with EGPRS/Flat)

FLAT	**Towards phantom**

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; σ = 0.96 S/m; ϵ_r = 55.858; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL 850 TP/850EDGE TP M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.270 W/kg

Flat-Section MSL 850 TP/850EDGE TP M 10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.76 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.376 W/kg
SAR(1 g) = 0.271 W/kg; SAR(10 g) = 0.198 W/kg
Maximum value of SAR (measured) = 0.275 W/kg
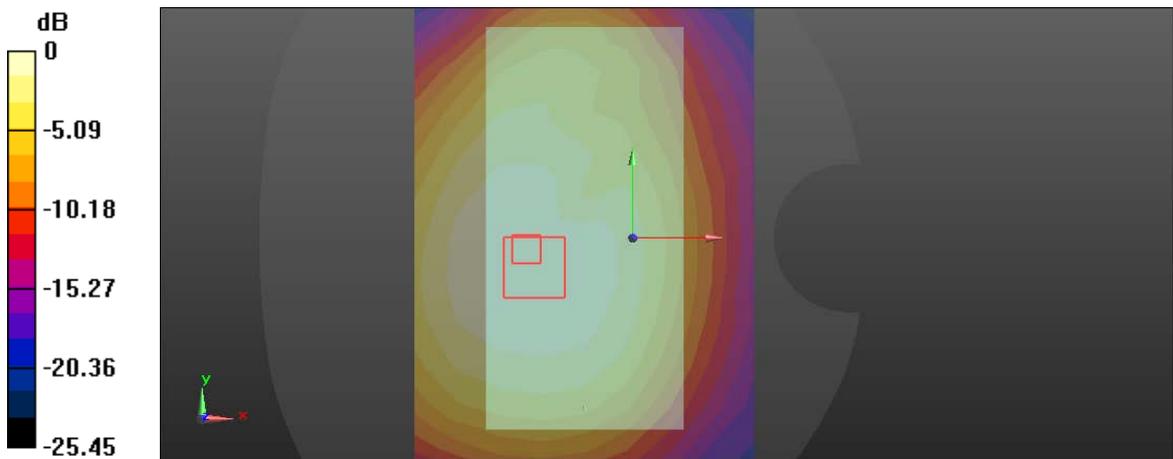
0 dB = 0.275 W/kg = -5.61 dBW/kg

FLAT	Towards ground

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; σ = 0.96 S/m; ε_r = 55.858; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL 850 TG/850EDGE TG M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.431 W/kg

Flat-Section MSL 850 TG/850EDGE TG M 10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 20.94 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.545 W/kg
SAR(1 g) = 0.418 W/kg; SAR(10 g) = 0.314 W/kg
Maximum value of SAR (measured) = 0.437 W/kg
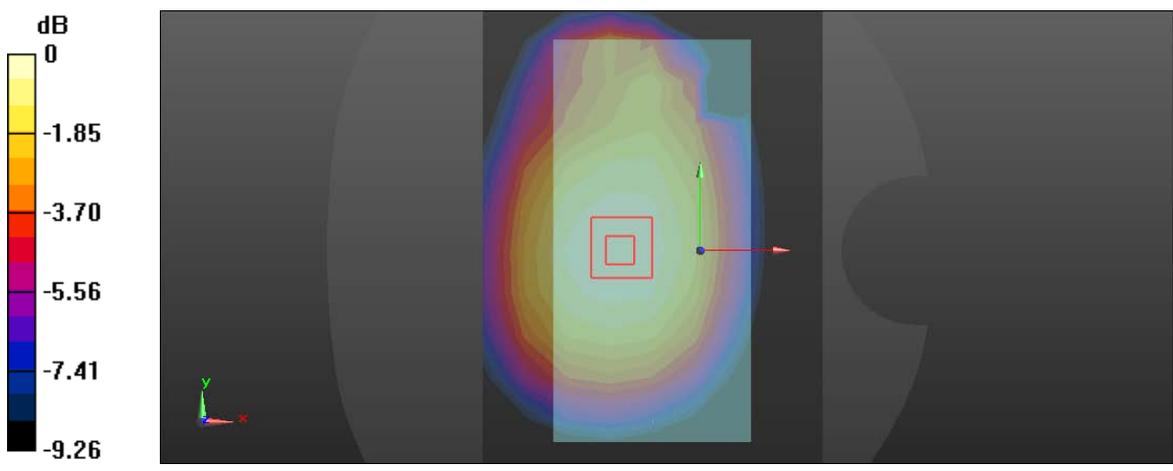
0 dB = 0.437 W/kg = -3.60 dBW/kg

FLAT	**EDGE2**

Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz;Duty Cycle: 1:8.30042

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 S/m; ε $_r$ = 55.858; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(6.16, 6.16, 6.16); 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)

Flat-Section MSL GSM850 HOT/850GPRS TP H edge 2/Area Scan (5x9x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.509 W/kg

Flat-Section MSL GSM850 HOT/850GPRS TP H edge 2/Zoom Scan (7x7x7)/Cube

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

Reference Value = 23.04 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.872 W/kg
SAR(1 g) = 0.512 W/kg; SAR(10 g) = 0.295 W/kg
Maximum value of SAR (measured) = 0.569 W/kg

0 dB = 0.569 W/kg = −2.45 dBW/kg

FLAT	EDGE3

Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz;Duty Cycle: 1:8.30042

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 S/m; ε$_r$ = 55.858; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); 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)

Flat-Section MSL GSM850 HOT/850GPRS TP H edge 3/Area Scan (5x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.0694 W/kg

Flat-Section MSL GSM850 HOT/850GPRS TP H edge 3/Zoom Scan (7x7x7)/Cube

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

Reference Value = 8.513 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.0870 W/kg
SAR(1 g) = 0.068 W/kg; SAR(10 g) = 0.049 W/kg
Maximum value of SAR (measured) = 0.0720 W/kg

0 dB = 0.0720 W/kg = -11.43 dBW/kg

FLAT	EDGE4

Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz;Duty Cycle: 1:8.30042

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 S/m; ε_r = 55.858; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); 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)

Flat-Section MSL GSM850 HOT/850GPRS TP H edge 4/Area Scan (5x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.258 W/kg

### Flat-Section MSL GSM850 HOT/850GPRS TP H edge 4/Zoom Scan (7x7x7)/Cube

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

Reference Value = 15.85 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.503 W/kg
SAR(1 g) = 0.243 W/kg; SAR(10 g) = 0.160 W/kg
Maximum value of SAR (measured) = 0.260 W/kg

0 dB = 0.260 W/kg = -5.85 dBW/kg

GSM (1900MHz/Head)

Left Side	Cheek

Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz;Duty Cycle: 1:8.30042

Medium parameters used: f = 1880 MHz; σ = 1.45 S/m; ε_r = 39.74; ρ = 1000 kg/m^3

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: Twin-SAM 1659; Type: QD 000 P40 CD; Serial: 1659
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL 1900/1900GSM HSL touch M/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0830 W/kg

### Head-Section Left HSL 1900/1900GSM HSL touch M/Zoom Scan (7x7x7)/Cube

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

Reference Value = 3.378 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.176 W/kg

SAR(1 g) = 0.091 W/kg; SAR(10 g) = 0.050 W/kg

Maximum value of SAR (measured) = 0.0964 W/kg

0 dB = 0.0964 W/kg = -10.16 dBW/kg

Left Side	Tilt

Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz;Duty Cycle: 1:8.30042

Medium parameters used: f = 1880 MHz; σ = 1.45 S/m; ε_r = 39.74; ρ = 1000 kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: Twin-SAM 1659; Type: QD 000 P40 CD; Serial: 1659
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL 1900/1900GSM HSL tilt M/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0480 W/kg

Head-Section Left HSL 1900/1900GSM HSL tilt M/Zoom Scan (7x7x7)/Cube

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

Reference Value = 4.943 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.0740 W/kg

SAR(1 g) = 0.046 W/kg; SAR(10 g) = 0.028 W/kg

Maximum value of SAR (measured) = 0.0497 W/kg

0 dB = 0.0497 W/kg = -13.04 dBW/kg

Right Side	**Cheek**

Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz;Duty Cycle: 1:8.30042

Medium parameters used: f = 1880 MHz; σ = 1.45 S/m; $ε_r$ = 39.74; ρ = 1000 kg/m^3

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: Twin-SAM 1659; Type: QD 000 P40 CD; Serial: 1659
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Right HSL 1900/1900GSM HSL touch M/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.138 W/kg

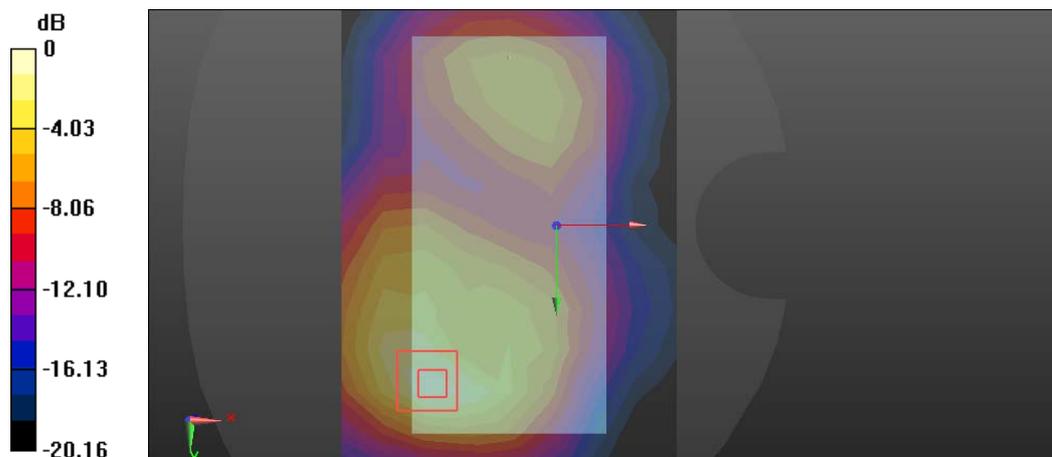### Head-Section Right HSL 1900/1900GSM HSL touch M/Zoom Scan (7x7x7)/Cube

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

Reference Value = 2.524 V/m; Power Drift = 0.69 dB
Peak SAR (extrapolated) = 0.303 W/kg
SAR(1 g) = 0.155 W/kg; SAR(10 g) = 0.089 W/kg
Maximum value of SAR (measured) = 0.172 W/kg

0 dB = 0.172 W/kg = -7.64 dBW/kg

Right Side	**Tilt**

Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz;Duty Cycle: 1:8. 30042

Medium parameters used: f = 1880 MHz; σ = 1.45 S/m; ε $_r$ = 39.74; ρ = 1000 kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: Twin-SAM 1659; Type: QD 000 P40 CD; Serial: 1659
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Right HSL 1900/1900GSM HSL tilt M/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0358 W/kg

Head-Section Right HSL 1900/1900GSM HSL tilt M/Zoom Scan (7x7x7)/Cube

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

Reference Value = 3.282 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.0460 W/kg
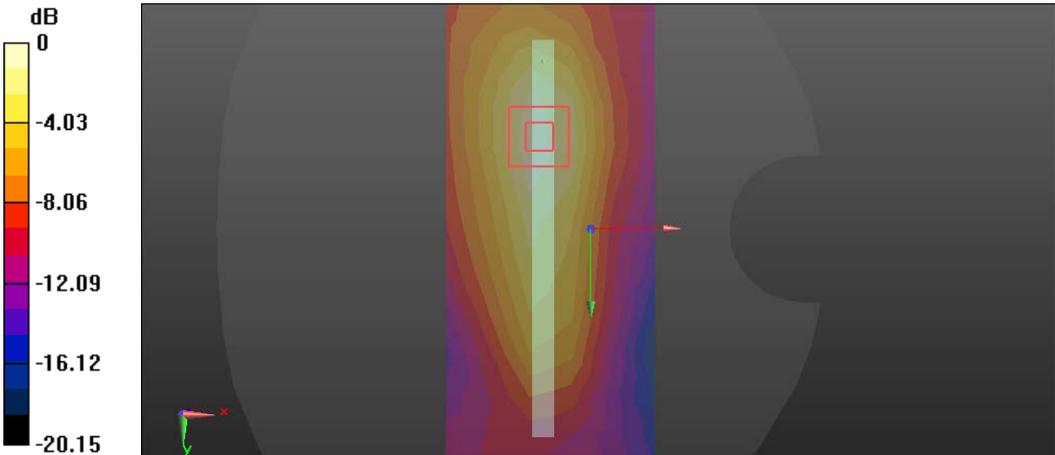
SAR(1 g) = 0.031 W/kg; SAR(10 g) = 0.019 W/kg

Maximum value of SAR (measured) = 0.0332 W/kg

0 dB = 0.0332 W/kg = -14.79 dBW/kg

GSM with headset (1900MHz/Flat)

FLAT	Towards phantom

Communication System: UID 0, PCS1900 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ε_r = 51.14; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL 1900 TP/1900GSM TP M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.132 W/kg

Flat-Section MSL 1900 TP/1900GSM TP M 10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.740 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.179 W/kg
SAR(1 g) = 0.117 W/kg; SAR(10 g) = 0.074 W/kg
Maximum value of SAR (measured) = 0.127 W/kg
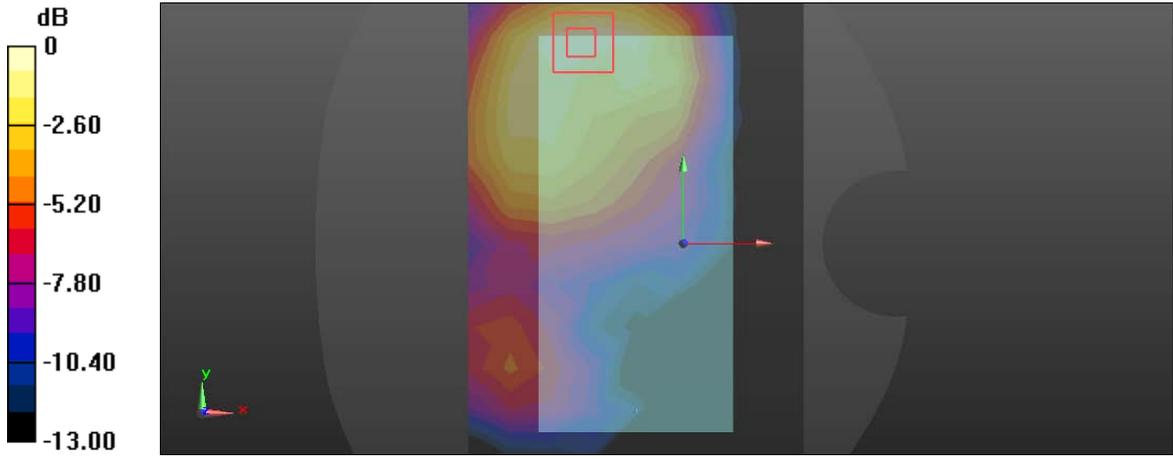
0 dB = 0.127 W/kg = -8.96 dBW/kg

FLAT	**Towards ground**

Communication System: UID 0, PCS1900 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; $ε_r$ = 51.14; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL 1900 TG/1900 GSM TG M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.278 W/kg

Flat-Section MSL 1900 TG/1900 GSM TG M 10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.845 V/m; Power Drift = 0.21 dB
Peak SAR (extrapolated) = 0.552 W/kg
SAR(1 g) = 0.330 W/kg; SAR(10 g) = 0.182 W/kg
Maximum value of SAR (measured) = 0.374 W/kg
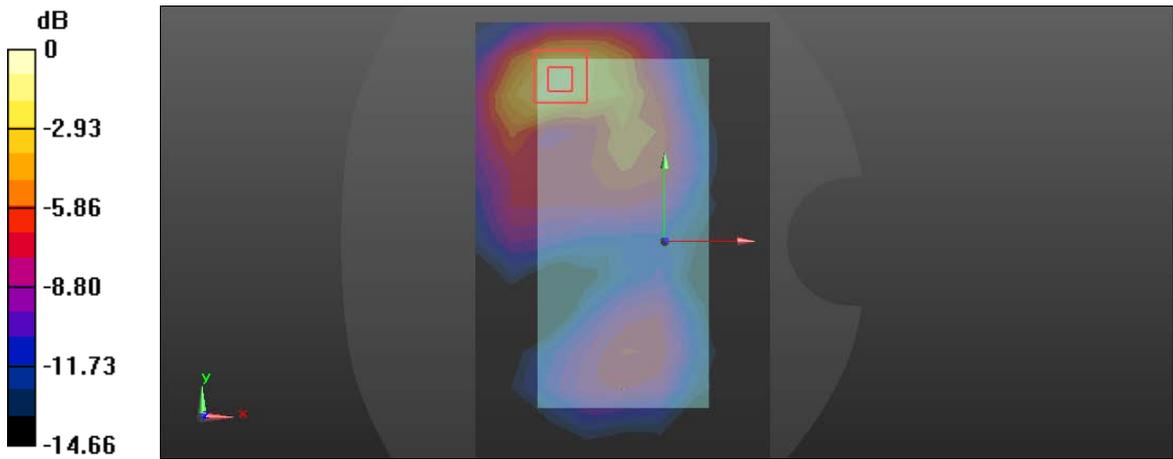
0 dB = 0.374 W/kg = -4.27 dBW/kg

GSM (1900MHz with GPRS/Flat)

FLAT	Towards phantom

Communication System: UID 0, PCS1900 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ε $_r$ = 51.14; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL 1900 TP/1900GPRS TP M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.411 W/kg

Flat-Section MSL 1900 TP/1900GPRS TP M 10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.083 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.582 W/kg
SAR(1 g) = 0.383 W/kg; SAR(10 g) = 0.241 W/kg
Maximum value of SAR (measured) = 0.417 W/kg
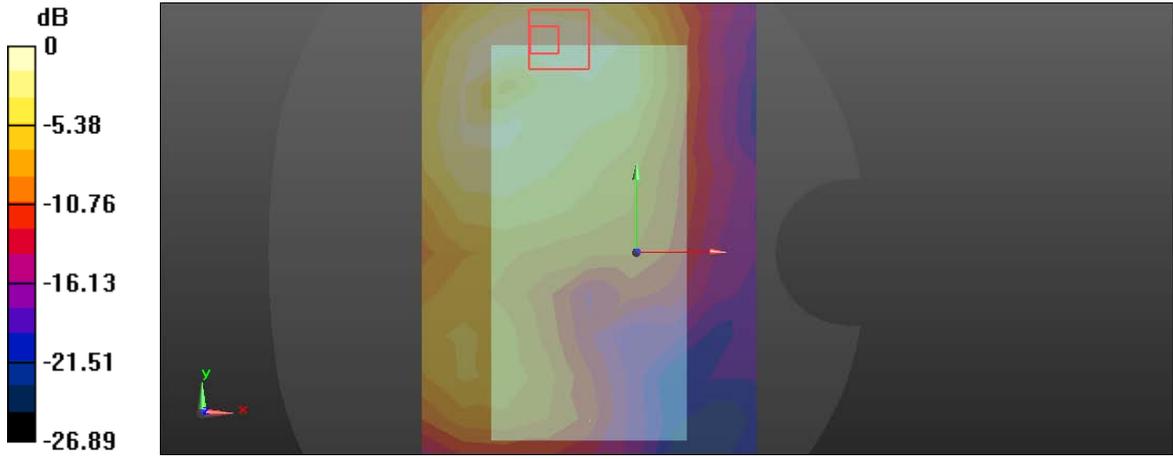
0 dB = 0.417 W/kg = -3.80 dBW/kg

FLAT	Towards ground

Communication System: UID 0, PCS1900 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ε_r = 51.14; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL 1900 TG/1900 GPRS TG M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.660 W/kg

Flat-Section MSL 1900 TG/1900 GPRS TG M 10mm/Zoom Scan (7x7x7)/Cube

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

Reference Value = 7.420 V/m; Power Drift = −0.11 dB
Peak SAR (extrapolated) = 2.16 W/kg
SAR(1 g) = 0.763 W/kg; SAR(10 g) = 0.429 W/kg
Maximum value of SAR (measured) = 0.867 W/kg
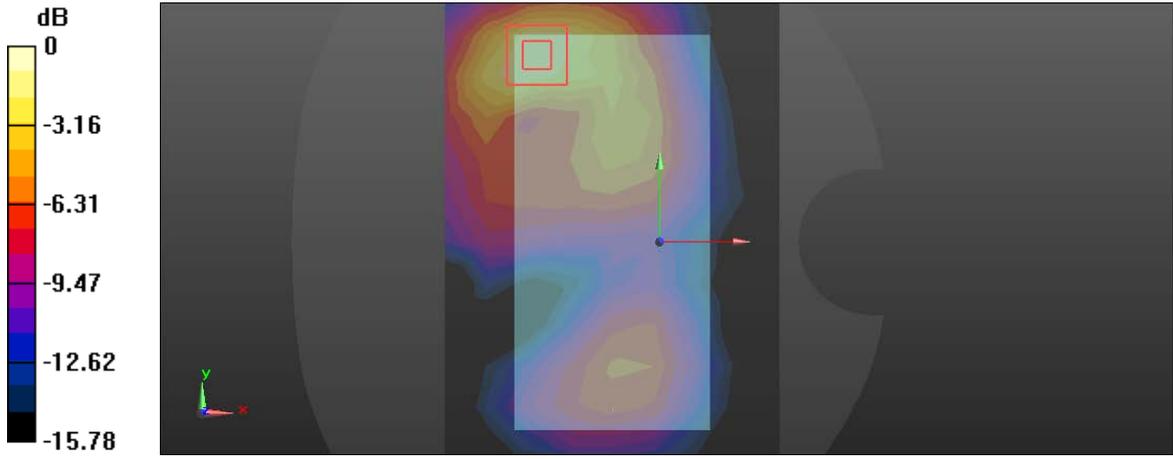
0 dB = 0.867 W/kg = −0.62 dBW/kg

GSM (1900MHz with EGPRS/Flat)

FLAT	Towards phantom

Communication System: UID 0, PCS1900 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; $ε_r$ = 51.14; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL 1900 TP/1900EDGE TP M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.405 W/kg

Flat-Section MSL 1900 TP/1900EDGE TP M 10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.144 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.580 W/kg
SAR(1 g) = 0.378 W/kg; SAR(10 g) = 0.238 W/kg
Maximum value of SAR (measured) = 0.411 W/kg
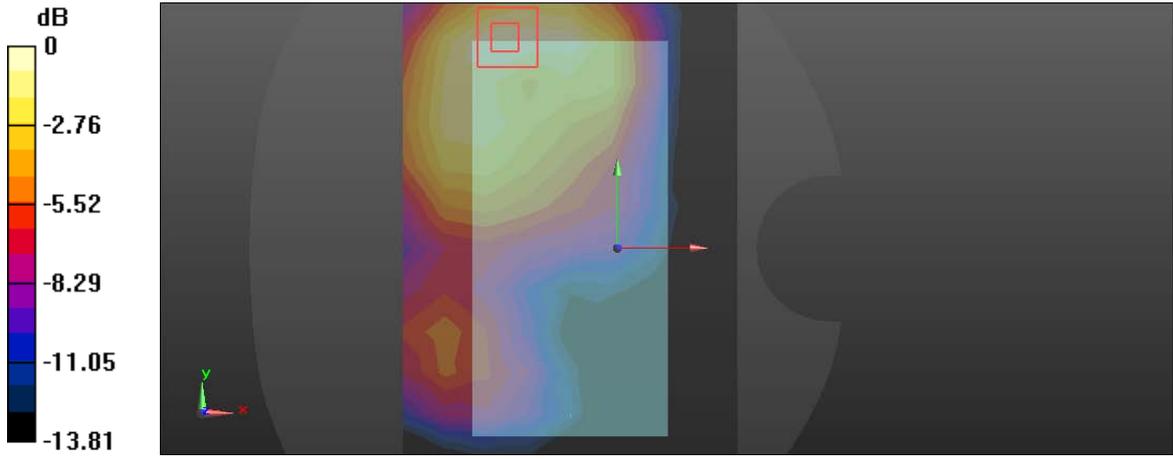
0 dB = 0.411 W/kg = -3.86 dBW/kg

FLAT	**Towards ground**

Communication System: UID 0, PCS1900 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ε_r = 51.14; ρ = 1000 kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL 1900 TG/1900 EDGE TG M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.656 W/kg

Flat-Section MSL 1900 TG/1900 EDGE TG M 10mm/Zoom Scan (7x7x7)/Cube

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

Reference Value = 7.337 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 1.25 W/kg
SAR(1 g) = 0.760 W/kg; SAR(10 g) = 0.429 W/kg
Maximum value of SAR (measured) = 0.857 W/kg

0 dB = 0.857 W/kg = -0.67 dBW/kg

FLAT	**EDGE2**

Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz;Duty Cycle: 1:8.30042

Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ε_r = 51.14; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); 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)

Flat-Section MSL GSM1900 HOT/1900GPRS M edge 2/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.300 W/kg

Flat-Section MSL GSM1900 HOT/1900GPRS M edge 2/Zoom Scan (7x7x7)/Cube

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

Reference Value = 13.54 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.383 W/kg

SAR(1 g) = 0.285 W/kg; SAR(10 g) = 0.205 W/kg

Maximum value of SAR (measured) = 0.303 W/kg

0 dB = 0.303 W/kg = -5.19 dBW/kg

FLAT	EDGE3

Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz;Duty Cycle: 1:8.30042
Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ε_r = 51.14; ρ = 1000 kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(4.9, 4.9, 4.9); 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)

Flat-Section MSL GSM1900 HOT/1900GPRS M edge 3/Area Scan (6x15x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.160 W/kg

Flat-Section MSL GSM1900 HOT/1900GPRS M edge 3/Zoom Scan (7x7x7)/Cube

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

Reference Value = 10.21 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.201 W/kg
SAR(1 g) = 0.148 W/kg; SAR(10 g) = 0.106 W/kg
Maximum value of SAR (measured) = 0.155 W/kg
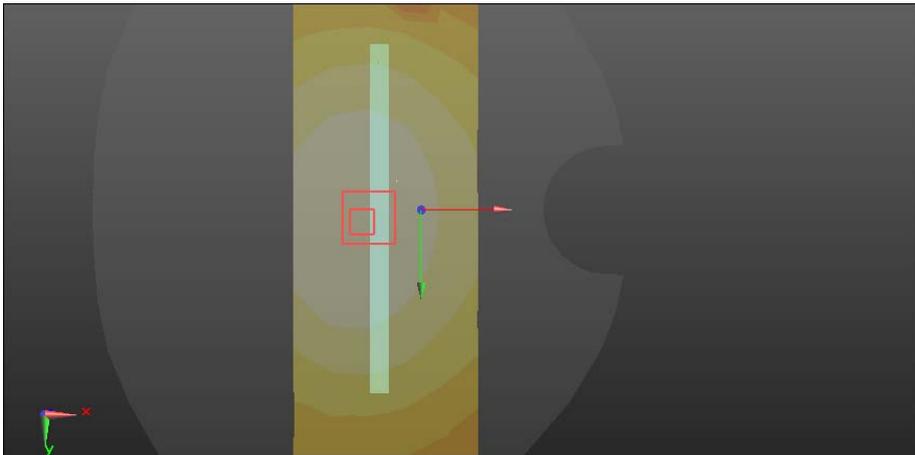
0 dB = 0.155 W/kg = -8.10 dBW/kg

FLAT	EDGE4

Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz;Duty Cycle: 1:8.30042

Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ε $_r$ = 51.14; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(4.9, 4.9, 4.9); 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)

Flat-Section MSL GSM1900 HOT/1900GPRS M edge 4/Area Scan (6x15x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.296 W/kg

### Flat-Section MSL GSM1900 HOT/1900GPRS M edge 4/Zoom Scan (7x7x7)/Cube

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

Reference Value = 13.60 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.397 W/kg
SAR(1 g) = 0.290 W/kg; SAR(10 g) = 0.207 W/kg
Maximum value of SAR (measured) = 0.303 W/kg

0 dB = 0.303 W/kg = −5.19 dBW/kg

WCDMABand2

Left Side	Cheek

Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.45 S/m; ε_r = 39.74; ρ = 1000 kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL Wband2/Wband2 HSL touch M/Area Scan (8x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.123 W/kg

### Head-Section Left HSL Wband2/Wband2 HSL touch M/Zoom Scan (7x7x7)/Cube

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

Reference Value = 3.799 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.183 W/kg
SAR(1 g) = 0.113 W/kg; SAR(10 g) = 0.066 W/kg
Maximum value of SAR (measured) = 0.124 W/kg
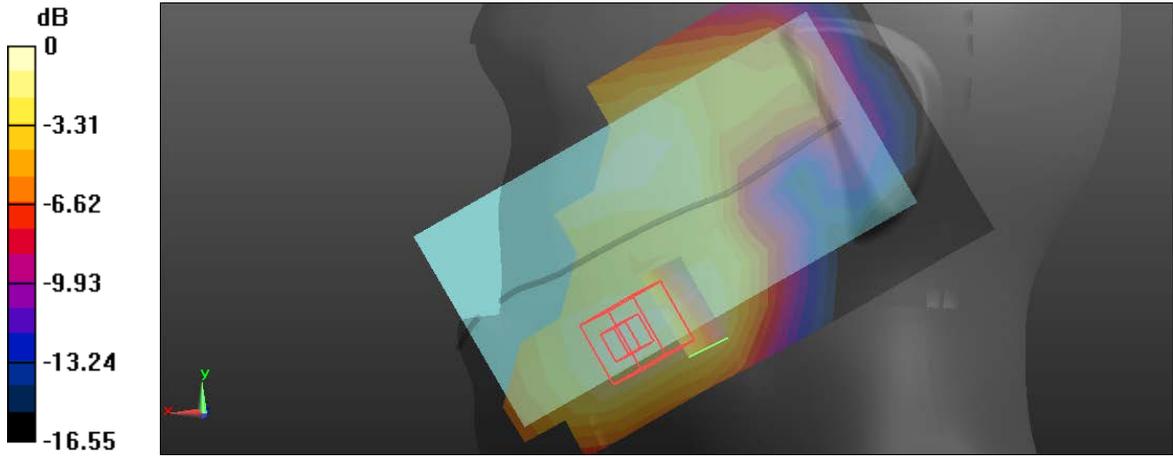
0 dB = 0.124 W/kg = -9.07 dBW/kg

Left Side	Tilt

Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.45 S/m; ε_r = 39.74; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL Wband2/Wband2 HSL tilt M/Area Scan (8x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.0769 W/kg

### Head-Section Left HSL Wband2/Wband2 HSL tilt M/Zoom Scan (7x7x7)/Cube

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

Reference Value = 6.053 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 0.116 W/kg
SAR(1 g) = 0.073 W/kg; SAR(10 g) = 0.045 W/kg
Maximum value of SAR (measured) = 0.0785 W/kg
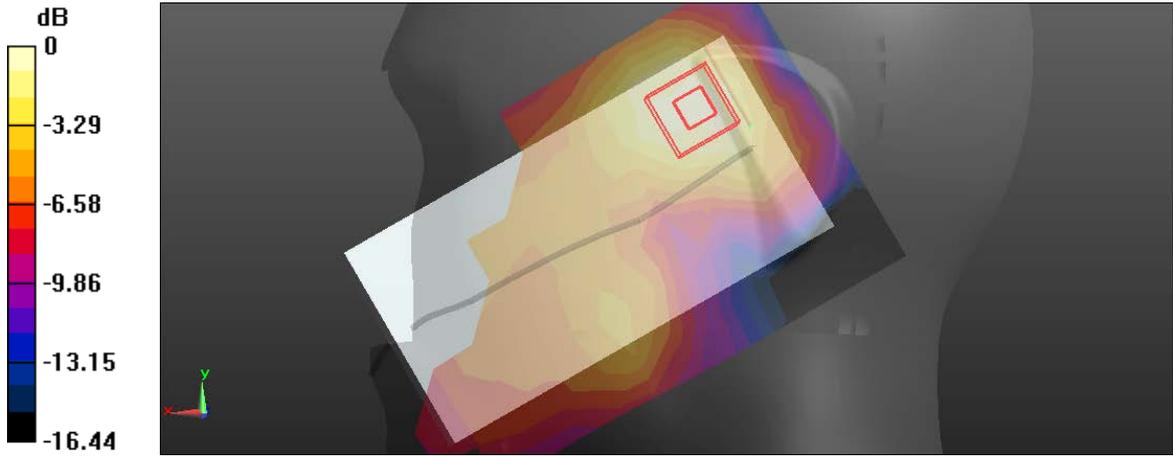
0 dB = 0.0785 W/kg = -11.05 dBW/kg

Right Side	**Cheek**

Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.45 S/m; ε $_r$ = 39.74; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: Twin-SAM 1659; Type: QD 000 P40 CD; Serial: 1659
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Right HSL Wband2/Wband2 HSL touch M/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.219 W/kg

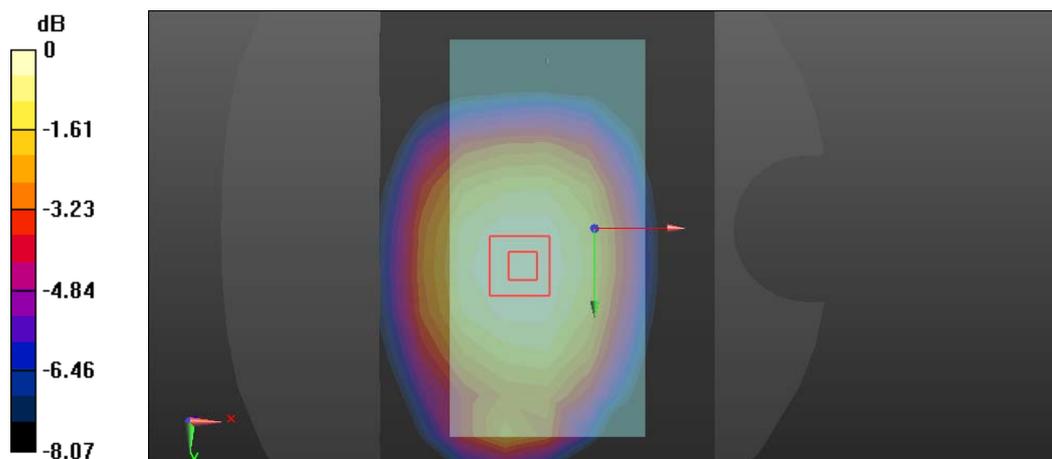### Head-Section Right HSL Wband2/Wband2 HSL touch M/Zoom Scan

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

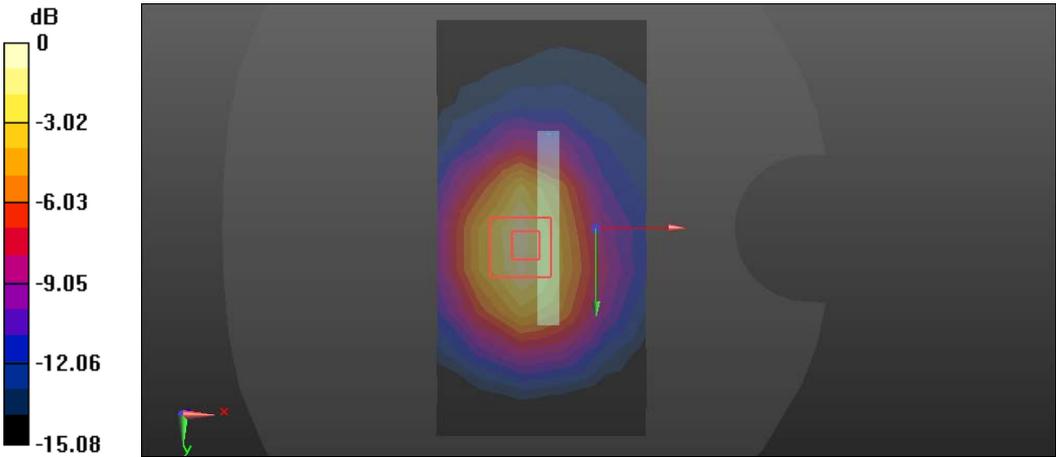Reference Value = 3.353 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.432 W/kg
SAR(1 g) = 0.242 W/kg; SAR(10 g) = 0.141 W/kg
Maximum value of SAR (measured) = 0.273 W/kg
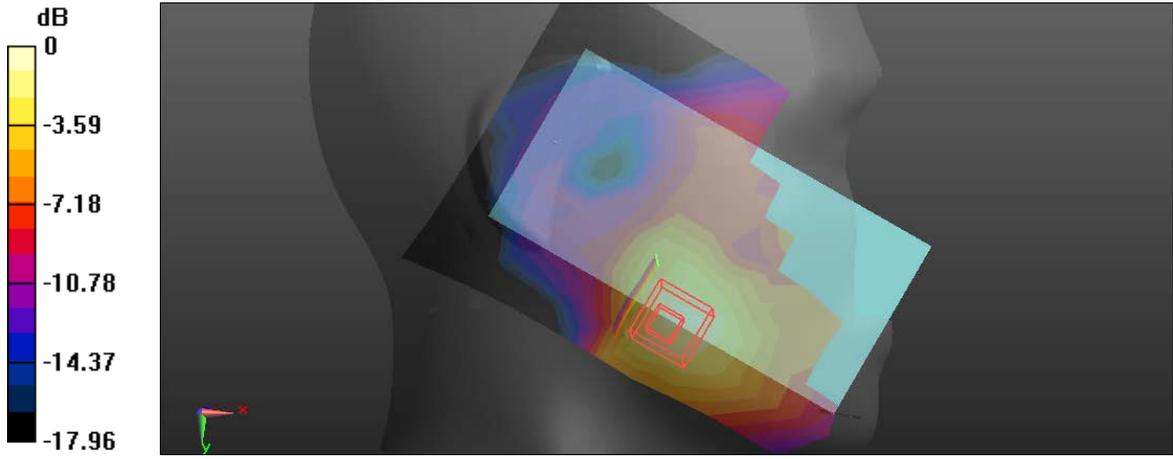
0 dB = 0.273 W/kg = -5.64 dBW/kg

Right Side	Tilt

Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.45 S/m; ε_r = 39.74; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: Twin-SAM 1659; Type: QD 000 P40 CD; Serial: 1659
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Right HSL Wband2/Wband2 HSL tilt M/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.0535 W/kg

Head-Section Right HSL Wband2/Wband2 HSL tilt M/Zoom Scan (7x7x7)/Cube

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

Reference Value = 4.553 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.0670 W/kg
SAR(1 g) = 0.045 W/kg; SAR(10 g) = 0.026 W/kg
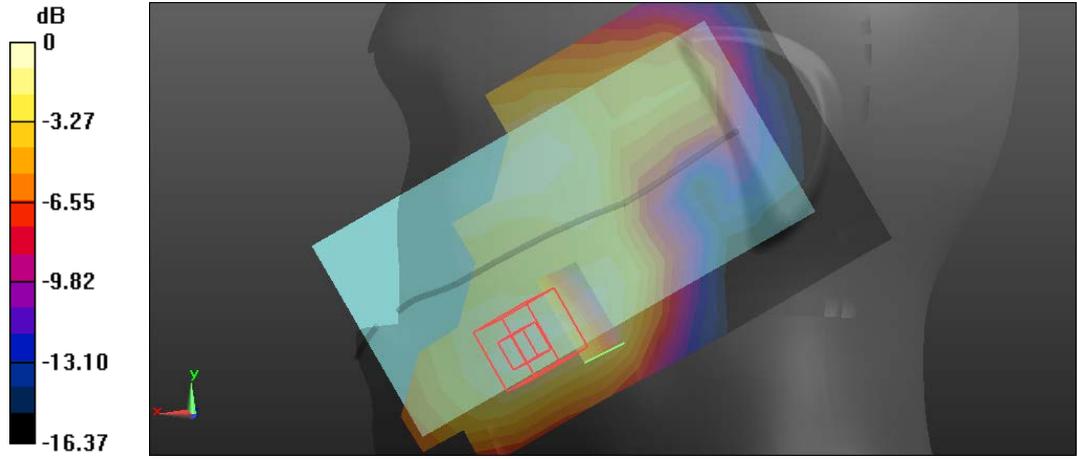Maximum value of SAR (measured) = 0.0483 W/kg
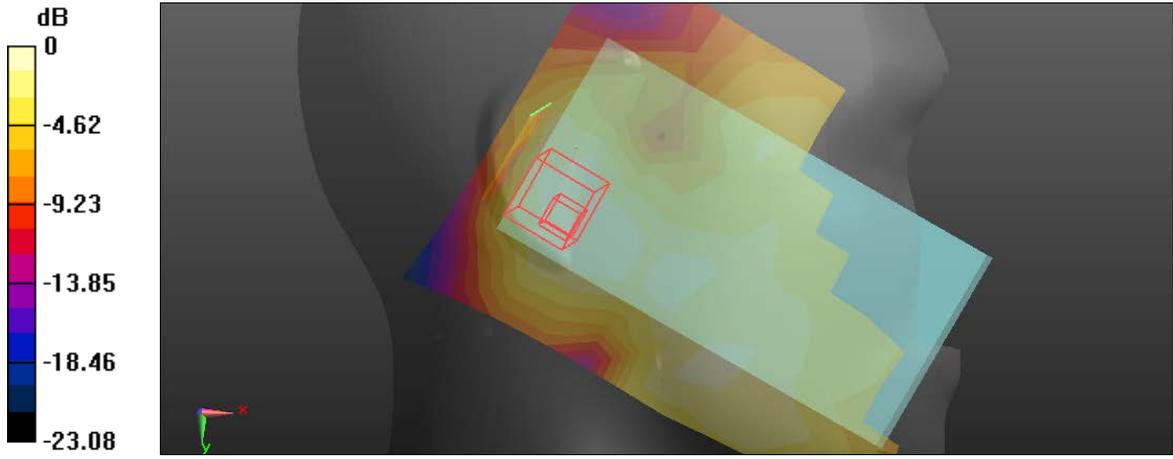
0 dB = 0.0483 W/kg = -13.16 dBW/kg

FLAT(VIOCE)	**Towards phantom**

Communication System: UID 10011 – CAB, UMTS-FDD (WCDMA); Frequency: 1880 MHz;Duty Cycle: 1:1.95434

Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ε$_r$ = 51.14; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL Wband2 TP/WCDMA Band2 TG M 10mm VOICE/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.199 W/kg

Flat-Section MSL Wband2 TP/WCDMA Band2 TG M 10mm VOICE/Zoom Scan

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

Reference Value = 4.404 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 0.285 W/kg
SAR(1 g) = 0.188 W/kg; SAR(10 g) = 0.119 W/kg
Maximum value of SAR (measured) = 0.206 W/kg
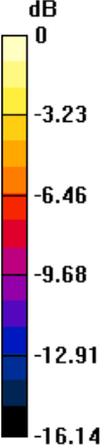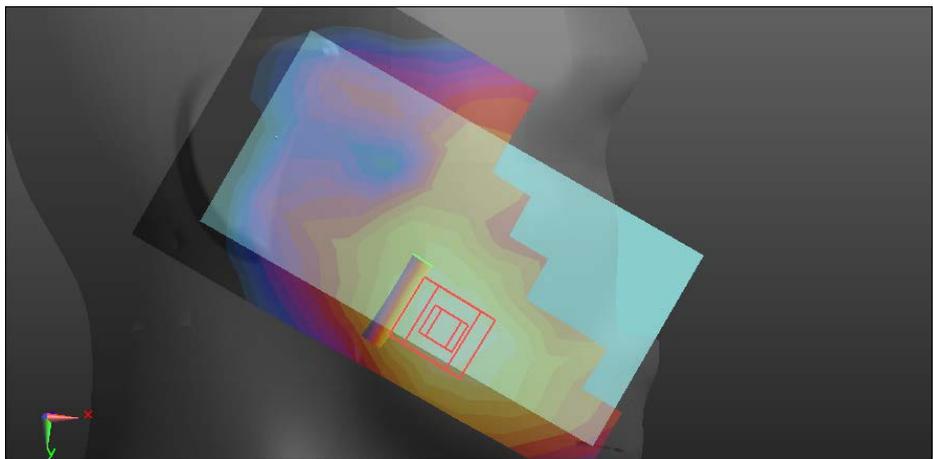

0 dB = 0.206 W/kg = -6.86 dBW/kg

FLAT(VIOCE)	Towards ground

Communication System: UID 10011 – CAB, UMTS-FDD (WCDMA); Frequency: 1880 MHz;Duty Cycle: 1:1.95434

Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; $ε_r$ = 51.14; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL Wband2 TP/WCDMA Band2 TG M 10mm VOICE/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.199 W/kg

Flat-Section MSL Wband2 TP/WCDMA Band2 TG M 10mm VOICE/Zoom Scan

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

Reference Value = 4.404 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 0.285 W/kg
SAR(1 g) = 0.188 W/kg; SAR(10 g) = 0.119 W/kg
Maximum value of SAR (measured) = 0.206 W/kg

0 dB = 0.206 W/kg = -6.86 dBW/kg

FLAT(DATA)	Towards phantom

Communication System: UID 10011 – CAB, UMTS-FDD (WCDMA); Frequency: 1880 MHz; Duty Cycle: 1:1.95434

Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ε_r = 51.14; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), 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)

Flat-Section MSL Wband2 TP/WCDMA Band2 TG M 10mm DATA/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.204 W/kg

Flat-Section MSL Wband2 TP/WCDMA Band2 TG M 10mm DATA/Zoom Scan

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

Reference Value = 4.401 V/m; Power Drift = 0.21 dB
Peak SAR (extrapolated) = 0.280 W/kg
SAR(1 g) = 0.189 W/kg; SAR(10 g) = 0.120 W/kg
Maximum value of SAR (measured) = 0.207 W/kg
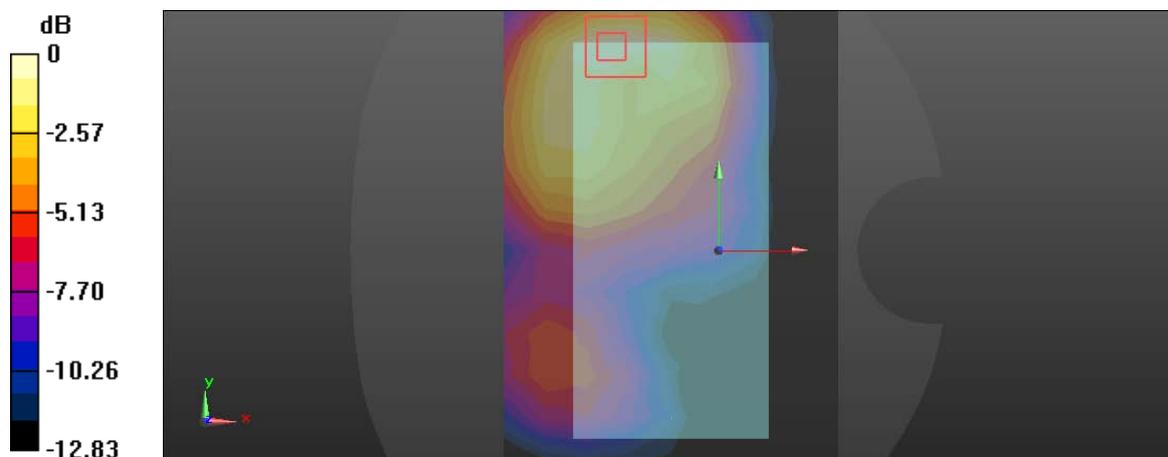
0 dB = 0.207 W/kg = -6.84 dBW/kg

FLAT(DATA)	Towards ground

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1880 MHz;Duty Cycle: 1:1.95434

Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ε $_r$ = 51.14; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL Wband2 TG/WCDMA Band2 TG M 10mm DATA/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.371 W/kg

Flat-Section MSL Wband2 TG/WCDMA Band2 TG M 10mm DATA/Zoom Scan

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

Reference Value = 5.041 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 0.673 W/kg

SAR(1 g) = 0.413 W/kg; SAR(10 g) = 0.232 W/kg

Maximum value of SAR (measured) = 0.460 W/kg

0 dB = 0.460 W/kg = -3.37 dBW/kg

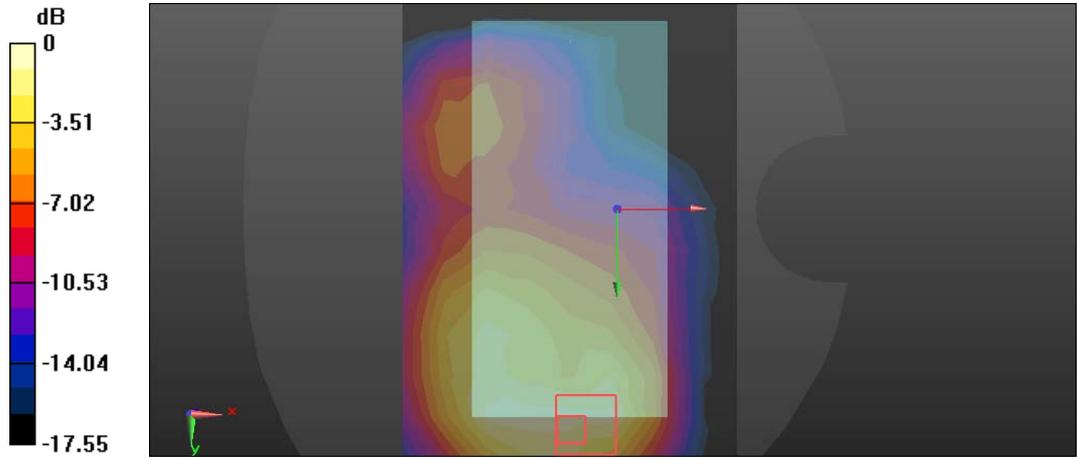| **FLAT**	**EDGE2**

Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ε$_r$ = 51.14; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL Wband2 HOT/Wband2 M edge 2/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.492 W/kg

Flat-Section MSL Wband2 HOT/Wband2 M edge 2/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.61 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.793 W/kg
SAR(1 g) = 0.468 W/kg; SAR(10 g) = 0.261 W/kg
Maximum value of SAR (measured) = 0.512 W/kg

0 dB = 0.512 W/kg = -2.91 dBW/kg

FLAT	**EDGE3**

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

Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ε_r = 51.14; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL Wband2 HOT/Wband2 M edge 3/Area Scan (6x15x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0689 W/kg

Flat-Section MSL Wband2 HOT/Wband2 M edge 3/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 3.121 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.121 W/kg

SAR(1 g) = 0.073 W/kg; SAR(10 g) = 0.042 W/kg

Maximum value of SAR (measured) = 0.0792 W/kg
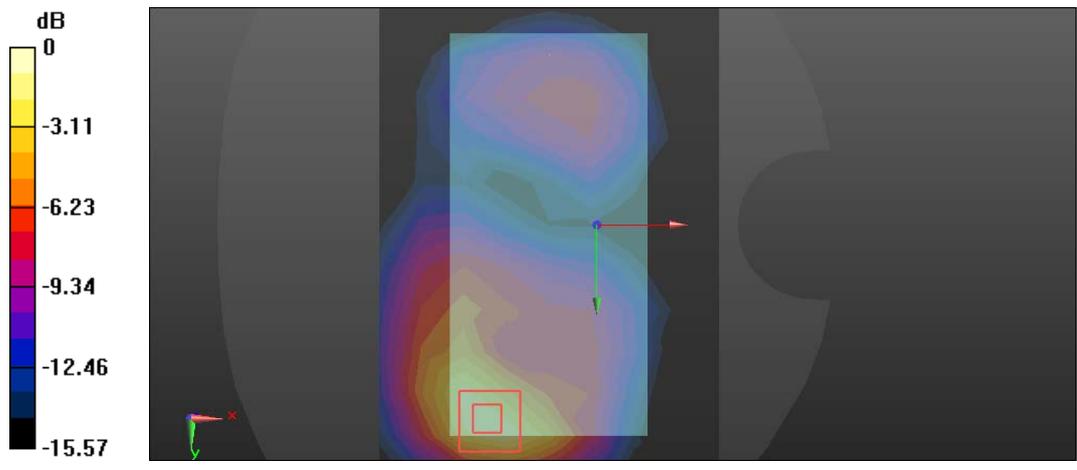

0 dB = 0.0792 W/kg = -11.01 dBW/kg

FLAT	**EDGE4**

Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ε $_r$ = 51.14; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL Wband2 HOT/Wband2 M edge 4/Area Scan (6x15x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.0674 W/kg

Flat-Section MSL Wband2 HOT/Wband2 M edge 4/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.128 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.121 W/kg
SAR(1 g) = 0.072 W/kg; SAR(10 g) = 0.042 W/kg
Maximum value of SAR (measured) = 0.0787 W/kg
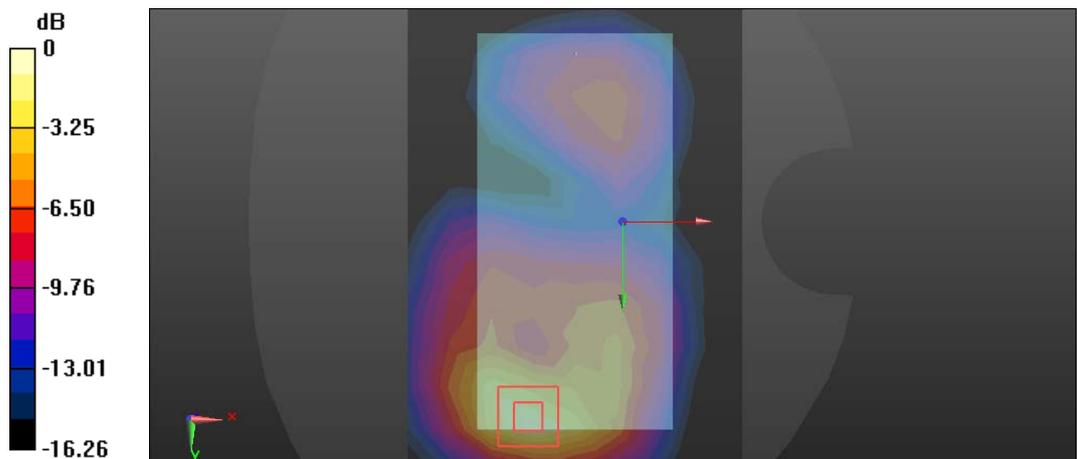

0 dB = 0.0787 W/kg = -11.04 dBW/kg

Left Side	Cheek

Communication System: UID 0, band 4 (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.304 S/m; ε_r = 40.409;
ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- 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 Left HSL Wband4/Wband4 HSL touch M/Area Scan (8x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.254 W/kg

Head-Section Left HSL Wband4/Wband4 HSL touch M/Zoom Scan (7x7x7)/Cube

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

Reference Value = 5.630 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.367 W/kg
SAR(1 g) = 0.240 W/kg; SAR(10 g) = 0.151 W/kg
Maximum value of SAR (measured) = 0.260 W/kg

0 dB = 0.260 W/kg = –5.85 dBW/kg

Left Side	Tilt

Communication System: UID 0, band 4 (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.304 S/m; ε$_r$ = 40.409;
ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- 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 Left HSL Wband4/Wband4 HSL tilt M/Area Scan (8x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.128 W/kg

Head-Section Left HSL Wband4/Wband4 HSL tilt M/Zoom Scan (7x7x7)/Cube

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

Reference Value = 8.220 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.184 W/kg
SAR(1 g) = 0.122 W/kg; SAR(10 g) = 0.080 W/kg
Maximum value of SAR (measured) = 0.131 W/kg

0 dB = 0.131 W/kg = -8.83 dBW/kg

Right Side	Cheek

Communication System: UID 0, band 4 (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.304 S/m; $ε_r$ = 40.409; ρ = 1000 kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- 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 Right HSL Wband4/Wband4 HSL touch M/Area Scan (8x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.212 W/kg

Head-Section Right HSL Wband4/Wband4 HSL touch M/Zoom Scan

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

Reference Value = 5.674 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.297 W/kg

SAR(1 g) = 0.206 W/kg; SAR(10 g) = 0.136 W/kg

Maximum value of SAR (measured) = 0.220 W/kg

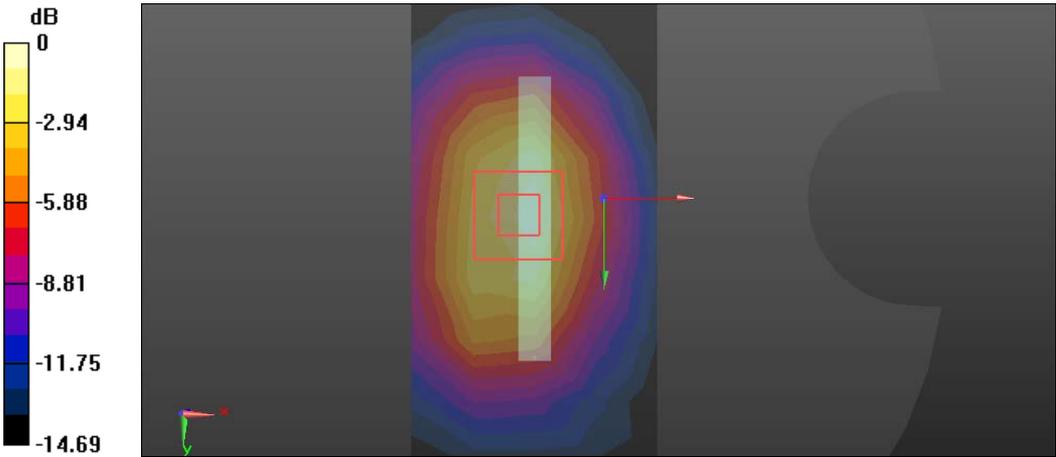0 dB = 0.220 W/kg = -6.58 dBW/kg

Right Side	Tilt

Communication System: UID 0, band 4 (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.304 S/m; ε $_r$ = 40.409; ρ = 1000 kg/m^3

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- 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 Right HSL Wband4/Wband4 HSL tilt M/Area Scan (8x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.117 W/kg

Head-Section Right HSL Wband4/Wband4 HSL tilt M/Zoom Scan (7x7x7)/Cube

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

Reference Value = 8.822 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.164 W/kg
SAR(1 g) = 0.108 W/kg; SAR(10 g) = 0.067 W/kg
Maximum value of SAR (measured) = 0.118 W/kg
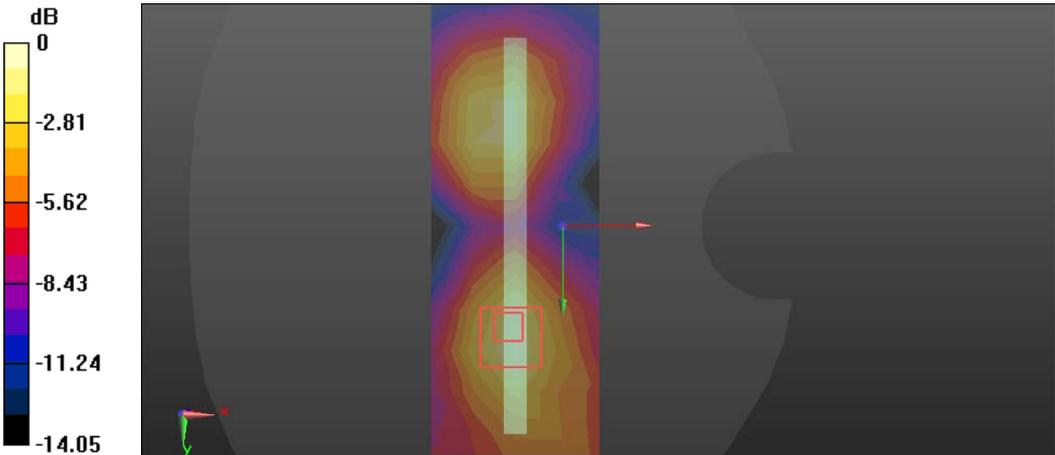

0 dB = 0.118 W/kg = –9.28 dBW/kg

FLAT(VIOCE)	**Towards phantom**

Communication System: UID 0, band 4 (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.404 S/m; ε_r = 51.622; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); 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)

Flat-Section MSL Wband4 TP/Wcdma band4 TP M VOICE 10mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.430 W/kg

Flat-Section MSL Wband4 TP/Wcdma band4 TP M VOICE 10mm/Zoom Scan

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

Reference Value = 6.702 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.795 W/kg

SAR(1 g) = 0.415 W/kg; SAR(10 g) = 0.219 W/kg

Maximum value of SAR (measured) = 0.461 W/kg
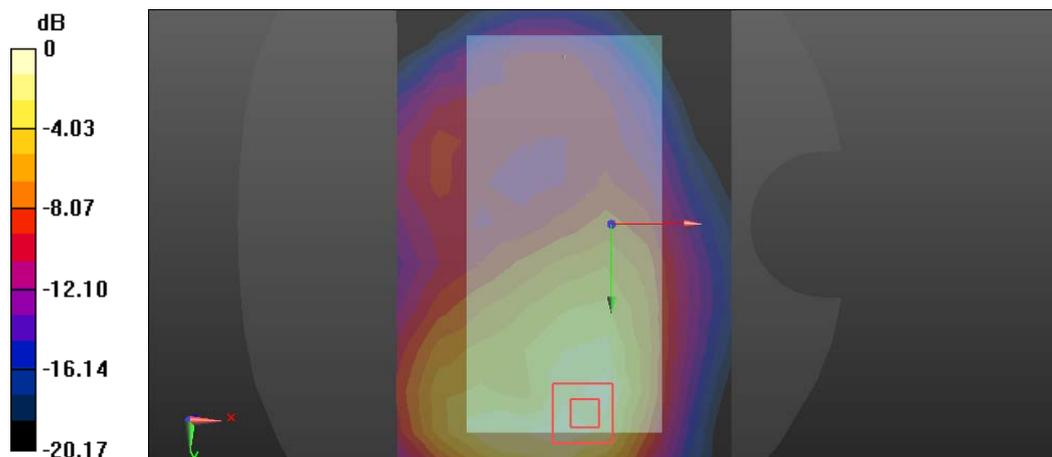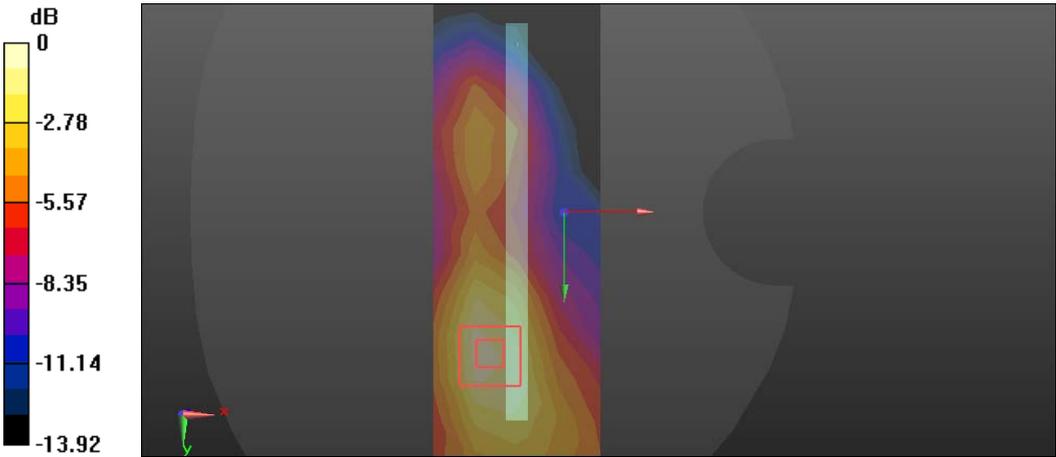

0 dB = 0.461 W/kg = -3.36 dBW/kg

FLAT(VIOCE)	Towards ground

Communication System: UID 0, band 4 (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.404 S/m; $ε_r$ = 51.622; ρ = 1000 kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(4.9, 4.9, 4.9); 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)

Flat-Section MSL Wband4 TG/Wcdma band4 TG M VOICE 10mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.664 W/kg

Flat-Section MSL Wband4 TG/Wcdma band4 TG M VOICE 10mm/Zoom Scan

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

Reference Value = 7.280 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 1.35 W/kg
SAR(1 g) = 0.681 W/kg; SAR(10 g) = 0.342 W/kg
Maximum value of SAR (measured) = 0.768 W/kg
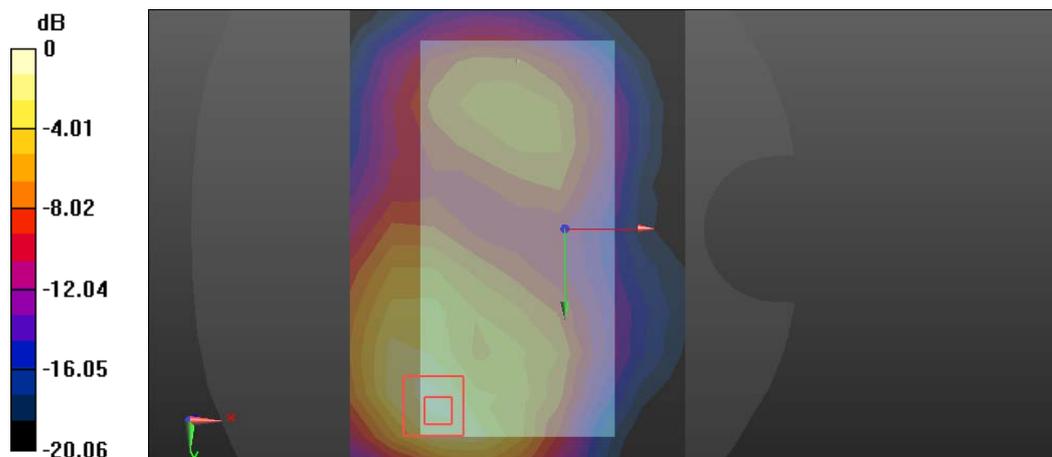
0 dB = 0.768 W/kg = -1.15 dBW/kg

FLAT(DATA)	Towards phantom

Communication System: UID 0, band 4 (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.404 S/m; ε $_r$ = 51.622; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(4.9, 4.9, 4.9); 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)

Flat-Section MSL Wband4 TP/Wcdma band4 TP M DATA 10mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.351 W/kg

Flat-Section MSL Wband4 TP/Wcdma band4 TP M DATA 10mm/Zoom Scan

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

Reference Value = 7.586 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.696 W/kg

SAR(1 g) = 0.369 W/kg; SAR(10 g) = 0.197 W/kg

Maximum value of SAR (measured) = 0.406 W/kg
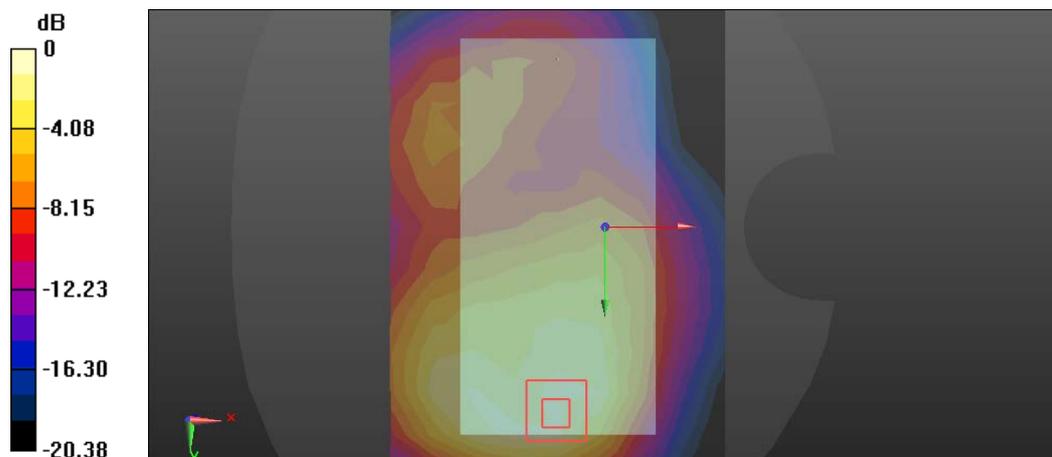
0 dB = 0.406 W/kg = -3.91 dBW/kg

FLAT(DATA)	Towards ground

Communication System: UID 0, band 4 (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.404 S/m; ε_r = 51.622; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(4.9, 4.9, 4.9); 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)

Flat-Section MSL Wband4 TG/Wcdma band4 TG M DATA 10mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.736 W/kg

Flat-Section MSL Wband4 TG/Wcdma band4 TG M DATA 10mm/Zoom Scan

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

Reference Value = 7.978 V/m; Power Drift = -0.21 dB
Peak SAR (extrapolated) = 1.39 W/kg
SAR(1 g) = 0.700 W/kg; SAR(10 g) = 0.346 W/kg
Maximum value of SAR (measured) = 0.792 W/kg

0 dB = 0.792 W/kg = -1.01 dBW/kg

FLAT	**EDGE2**

Communication System: UID 0, band 4 (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.404 S/m; ε $_r$ = 51.622;
ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(4.9, 4.9, 4.9); 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)

Flat-Section MSL Wband4 HOT/Wcdma band4 M edge 2/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.728 W/kg

Flat-Section MSL Wband4 HOT/Wcdma band4 M edge 2/Zoom Scan

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

Reference Value = 19.40 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 1.26 W/kg
SAR(1 g) = 0.671 W/kg; SAR(10 g) = 0.345 W/kg
Maximum value of SAR (measured) = 0.754 W/kg

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

FLAT	EDGE3

Communication System: UID 0, band 4 (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.404 S/m; ε $_r$ = 51.622;
ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(4.9, 4.9, 4.9); 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)

Flat-Section MSL Wband4 HOT/Wcdma band4 M edge 3/Area Scan (6x15x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.135 W/kg

Flat-Section MSL Wband4 HOT/Wcdma band4 M edge 3/Zoom Scan

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

Reference Value = 3.961 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.230 W/kg
SAR(1 g) = 0.129 W/kg; SAR(10 g) = 0.071 W/kg
Maximum value of SAR (measured) = 0.142 W/kg
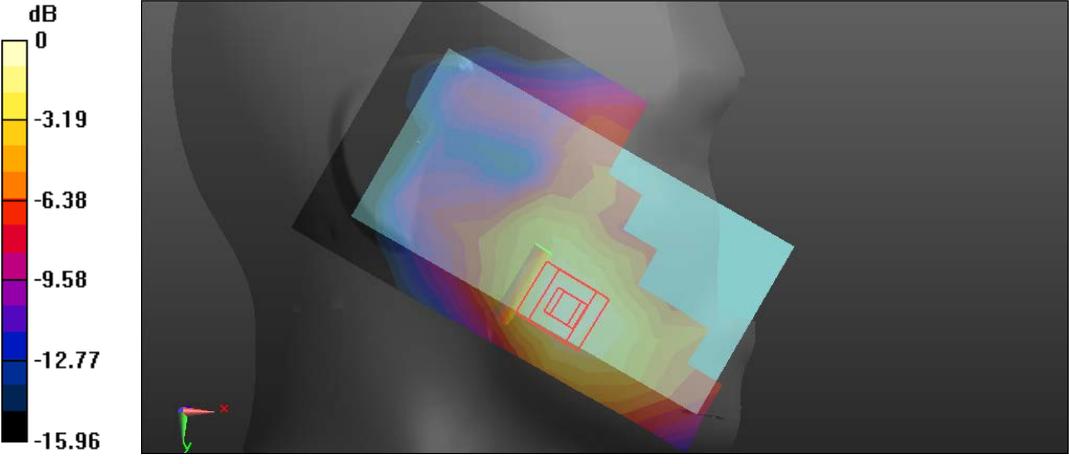

0 dB = 0.142 W/kg = −8.48 dBW/kg

FLAT	**EDGE4**

Communication System: UID 0, band 4 (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.404 S/m; ε $_r$ = 51.622; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(4.9, 4.9, 4.9); 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)

Flat-Section MSL Wband4 HOT/Wcdma band4 M edge 4/Area Scan (6x15x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.189 W/kg

Flat-Section MSL Wband4 HOT/Wcdma band4 M edge 4/Zoom Scan

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

Reference Value = 9.652 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.334 W/kg

SAR(1 g) = 0.184 W/kg; SAR(10 g) = 0.100 W/kg

Maximum value of SAR (measured) = 0.202 W/kg

0 dB = 0.202 W/kg = -6.95 dBW/kg

WCDMABand5

Left Side	Cheek

Communication System: UID 0, band 5 (0); Frequency: 836.6 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.89 S/m; ε_r = 41.478; ρ = 1000 kg/m³

Phantom section: Left 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 Left HSL Wband5/Wband5 HSL touch M/Area Scan (8x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.187 W/kg

Head-Section Left HSL Wband5/Wband5 HSL touch M/Zoom Scan (7x7x7)/Cube

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

Reference Value = 7.602 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.219 W/kg

SAR(1 g) = 0.180 W/kg; SAR(10 g) = 0.142 W/kg

Maximum value of SAR (measured) = 0.189 W/kg

0 dB = 0.189 W/kg = -7.24 dBW/kg

Left Side	Tilt

Communication System: UID 0, band 5 (0); Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.89 S/m; ε$_r$ = 41.478;
ρ = 1000 kg/m^3
Phantom section: Left 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 Left HSL Wband5/Wband5 HSL tilt M/Area Scan (8x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.157 W/kg

Head-Section Left HSL Wband5/Wband5 HSL tilt M/Zoom Scan (7x7x7)/Cube

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

Reference Value = 9.953 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.192 W/kg
SAR(1 g) = 0.156 W/kg; SAR(10 g) = 0.120 W/kg
Maximum value of SAR (measured) = 0.163 W/kg

0 dB = 0.163 W/kg = -7.88 dBW/kg

Right Side	**Cheek**

Communication System: UID 0, band 5 (0); Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.89 S/m; $ε_r$ = 41.478;
ρ = 1000 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 Wband5/Wband5 HSL touch M/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.232 W/kg

Head-Section Right HSL Wband5/Wband5 HSL touch M/Zoom Scan

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

Reference Value = 6.821 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.280 W/kg
SAR(1 g) = 0.223 W/kg; SAR(10 g) = 0.167 W/kg
Maximum value of SAR (measured) = 0.234 W/kg

0 dB = 0.234 W/kg = -6.31 dBW/kg

Right Side	**Tilt**

Communication System: UID 0, band 5 (O); Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.89 S/m; ε_r = 41.478;
ρ = 1000 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 Wband5/Wband5 HSL tilt M/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.162 W/kg

Head-Section Right HSL Wband5/Wband5 HSL tilt M/Zoom Scan (7x7x7)/Cube

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

Reference Value = 8.962 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.188 W/kg
SAR(1 g) = 0.154 W/kg; SAR(10 g) = 0.120 W/kg

0 dB = 0.162 W/kg = -7.90 dBW/kg

FLAT(VIOCE)	Towards phantom

Communication System: UID 0, band 5 (0); Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 S/m; ε$_r$ = 55.858; ρ = 1000 kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(6.16, 6.16, 6.16); 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)

Flat-Section MSL Wband5 TP/Wband 5 Voice TP M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.318 W/kg

Flat-Section MSL Wband5 TP/Wband 5 Voice TP M 10mm/Zoom Scan

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

Reference Value = 18.17 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.387 W/kg
SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.237 W/kg
Maximum value of SAR (measured) = 0.325 W/kg
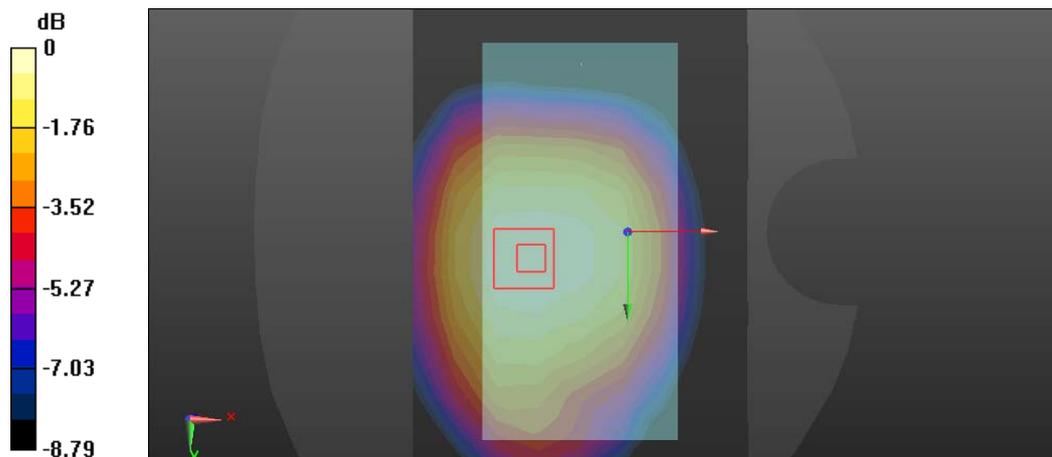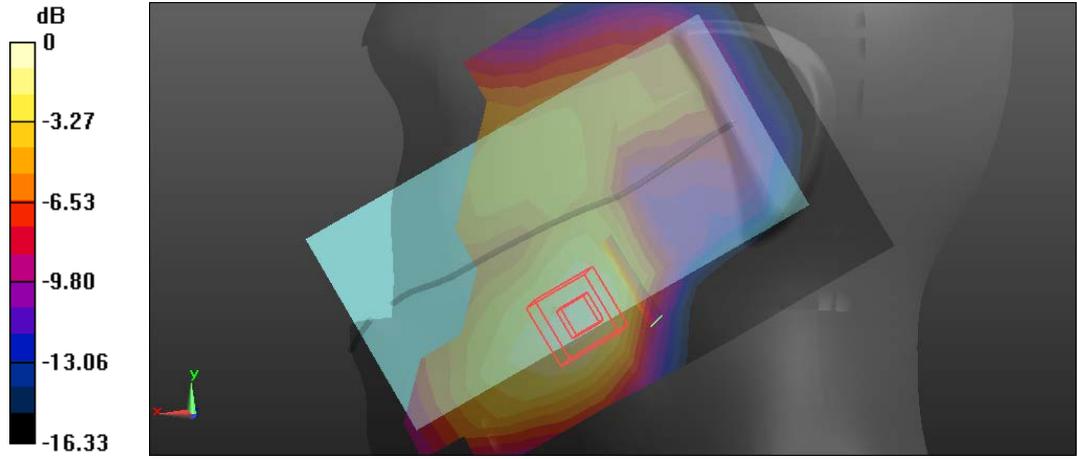

0 dB = 0.325 W/kg = –4.88 dBW/kg

FLAT(VIOCE)	Towards ground

Communication System: UID 0, band 5 (0); Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 S/m; ε$_r$ = 55.858;
ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(6.16, 6.16, 6.16); 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)

Flat-Section MSL Wband5 TG/Wband 5 Voice TG M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.484 W/kg

Flat-Section MSL Wband5 TG/Wband 5 Voice TG M 10mm/Zoom Scan

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

Reference Value = 22.15 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.580 W/kg
SAR(1 g) = 0.469 W/kg; SAR(10 g) = 0.360 W/kg
Maximum value of SAR (measured) = 0.492 W/kg
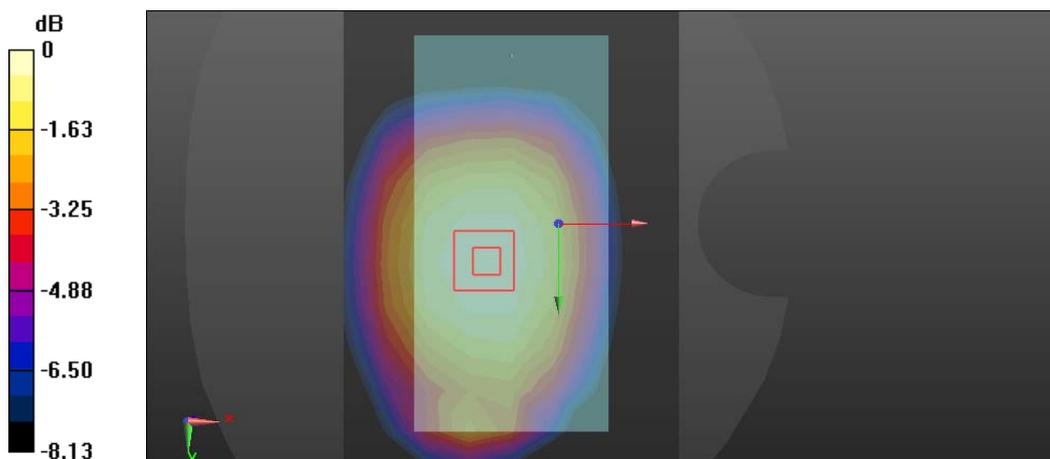
0 dB = 0.492 W/kg = –3.08 dBW/kg

FLAT(DATA)	**Towards phantom**

Communication System: UID 0, band 5 (0); Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 S/m; ε_r = 55.858; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); 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)

Flat-Section MSL Wband5 TP/Wband 5 Data TP M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.330 W/kg

Flat-Section MSL Wband5 TP/Wband 5 Data TP M 10mm/Zoom Scan

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

Reference Value = 18.15 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.395 W/kg
SAR(1 g) = 0.319 W/kg; SAR(10 g) = 0.245 W/kg
Maximum value of SAR (measured) = 0.333 W/kg
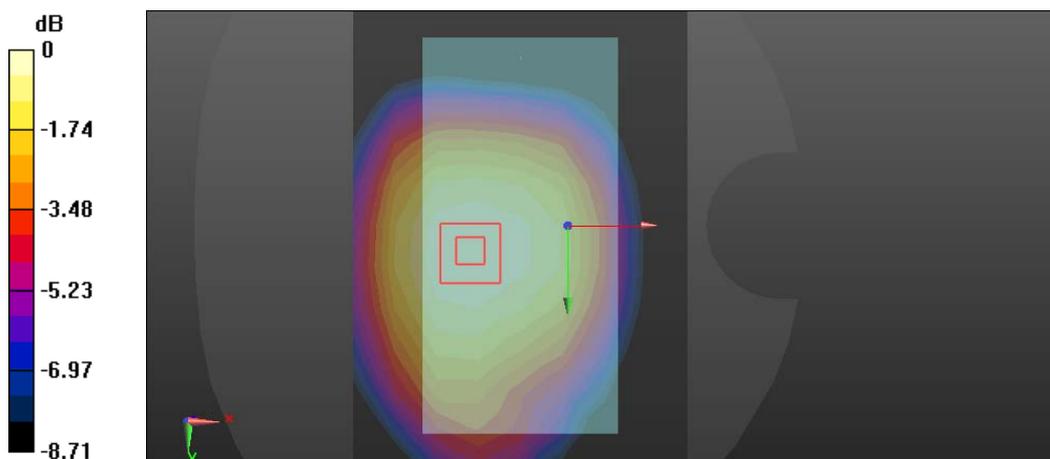
0 dB = 0.333 W/kg = -4.78 dBW/kg

FLAT(DATA)	**Towards ground**

Communication System: UID 0, band 5 (0); Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 S/m; ε_r = 55.858; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); 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)

Flat-Section MSL Wband5 TG/Wband 5 Data TG M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.482 W/kg

Flat-Section MSL Wband5 TG/Wband 5 Data TG M 10mm/Zoom Scan

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

Reference Value = 22.15 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.572 W/kg
SAR(1 g) = 0.464 W/kg; SAR(10 g) = 0.357 W/kg
Maximum value of SAR (measured) = 0.484 W/kg

0 dB = 0.484 W/kg = -3.15 dBW/kg

FLAT	EDGE2

Communication System: UID 0, band 5 (0); Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 S/m; ε_r = 55.858; ρ = 1000 kg/m³

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 S/m; ε_r = 55.858; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(6.16, 6.16, 6.16); 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)

Flat-Section MSL Wband5 HOT/Wband 5 M edge 2/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.155 W/kg

Flat-Section MSL Wband5 HOT/Wband 5 M edge 2/Zoom Scan (7x7x7)/Cube

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

Reference Value = 10.46 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.273 W/kg
SAR(1 g) = 0.151 W/kg; SAR(10 g) = 0.085 W/kg
Maximum value of SAR (measured) = 0.166 W/kg
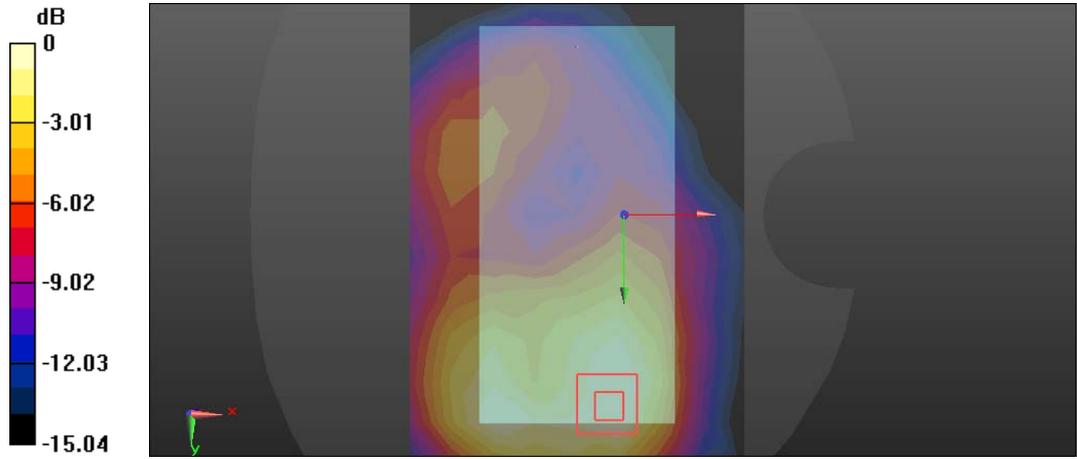

0 dB = 0.166 W/kg = -7.80 dBW/kg

FLAT	**EDGE3**

Communication System: UID 0, band 5 (0); Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 S/m; ε_r = 55.858;
ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); 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)

Flat-Section MSL Wband5 HOT/Wband 5 M edge 3/Area Scan (6x15x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.386 W/kg

Flat-Section MSL Wband5 HOT/Wband 5 M edge 3/Zoom Scan (7x7x7)/Cube

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

Reference Value = 19.48 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.514 W/kg
SAR(1 g) = 0.365 W/kg; SAR(10 g) = 0.251 W/kg
Maximum value of SAR (measured) = 0.391 W/kg

0 dB = 0.391 W/kg = -4.08 dBW/kg

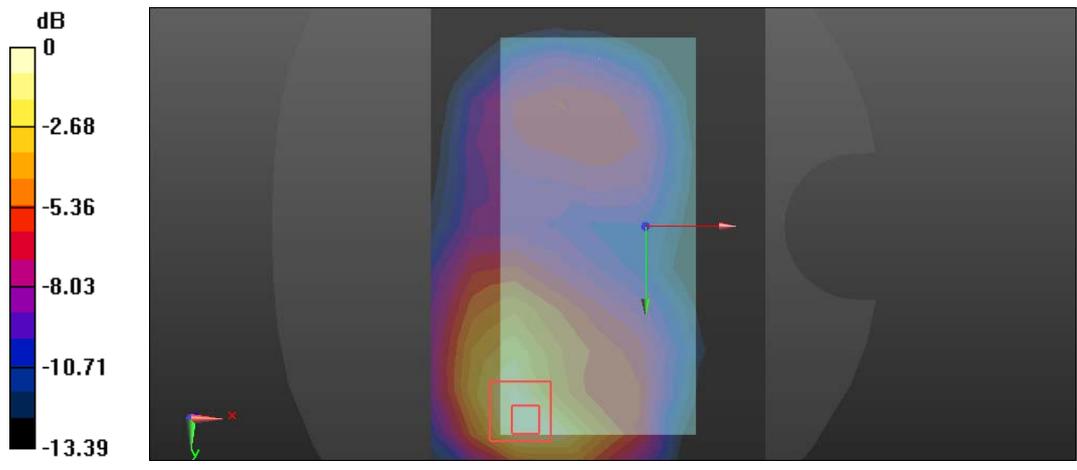| **FLAT**	**EDGE4**

Communication System: UID 0, band 5 (0); Frequency: 836.6 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 S/m; ε $_r$ = 55.858; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(6.16, 6.16, 6.16); 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)

Flat-Section MSL Wband5 HOT/Wband 5 M edge 4/Area Scan (6x15x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.299 W/kg

Flat-Section MSL Wband5 HOT/Wband 5 M edge 4/Zoom Scan (7x7x7)/Cube

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

Reference Value = 17.83 V/m; Power Drift = −0.04 dB
Peak SAR (extrapolated) = 0.408 W/kg
SAR(1 g) = 0.287 W/kg; SAR(10 g) = 0.194 W/kg
Maximum value of SAR (measured) = 0.308 W/kg

0 dB = 0.308 W/kg = −5.11 dBW/kg

LTE (Band 2 20BW-1RB-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 MHz; σ = 1.45 S/m; $ε_r$ = 39.74; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL LTE band2/LTE band2 1RB LOW HSL touch M/Area Scan

(8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.140 W/kg

Head-Section Left HSL LTE band2/LTE band2 1RB LOW HSL touch M/Zoom Scan

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

Reference Value = 4.216 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.204 W/kg
SAR(1 g) = 0.124 W/kg; SAR(10 g) = 0.073 W/kg
Maximum value of SAR (measured) = 0.136 W/kg
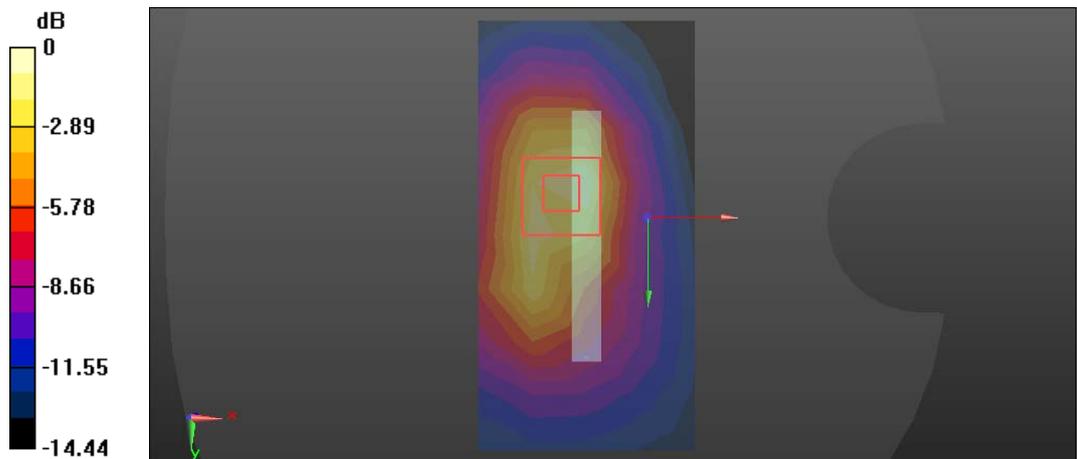

0 dB = 0.136 W/kg = -8.66 dBW/kg

Left Side	**Tilt**

Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.45 S/m; $ε_r$ = 39.74; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL LTE band2/LTE band2 1RB LOW HSL tilt M/Area Scan

(8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0958 W/kg

Head-Section Left HSL LTE band2/LTE band2 1RB LOW HSL tilt M/Zoom Scan

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

Reference Value = 6.299 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.146 W/kg
SAR(1 g) = 0.093 W/kg; SAR(10 g) = 0.058 W/kg
Maximum value of SAR (measured) = 0.101 W/kg

0 dB = 0.101 W/kg = -9.96 dBW/kg

Right Side	**Cheek**

Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.45 S/m; ε_r = 39.74; ρ = 1000 kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Right HSL LTE band2/LTE band2 1RB LOW HSL touch M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.185 W/kg

Head-Section Right HSL LTE band2/LTE band2 1RB LOW HSL touch M/Zoom

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

Reference Value = 2.753 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.270 W/kg
SAR(1 g) = 0.175 W/kg; SAR(10 g) = 0.110 W/kg
Maximum value of SAR (measured) = 0.187 W/kg

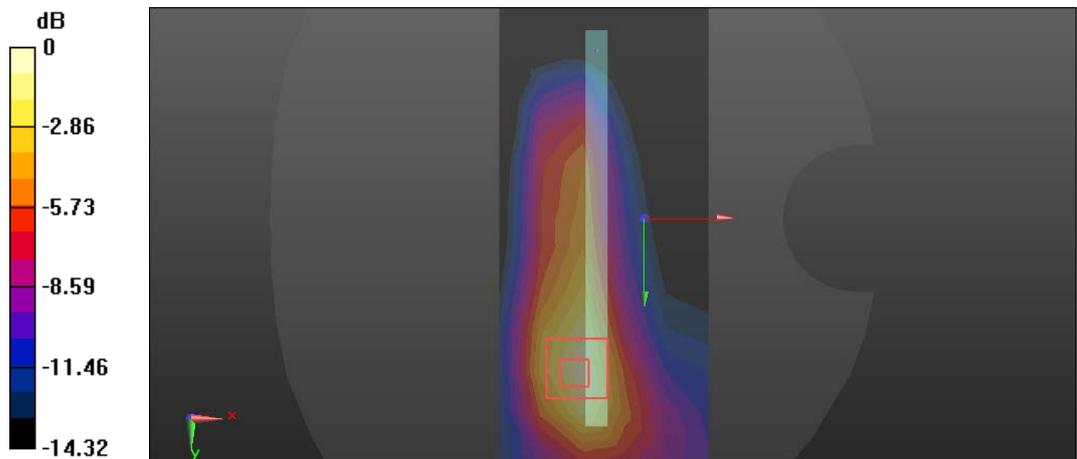

0 dB = 0.187 W/kg = -7.28 dBW/kg

Right Side	**Tilt**

Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.45 S/m; ε $_r$ = 39.74; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Right HSL LTE band2/LTE band2 1RB LOW HSL tilt M/Area Scan

(8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0638 W/kg

Head-Section Right HSL LTE band2/LTE band2 1RB LOW HSL tilt M/Zoom Scan

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

Reference Value = 4.665 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.0930 W/kg
SAR(1 g) = 0.060 W/kg; SAR(10 g) = 0.037 W/kg
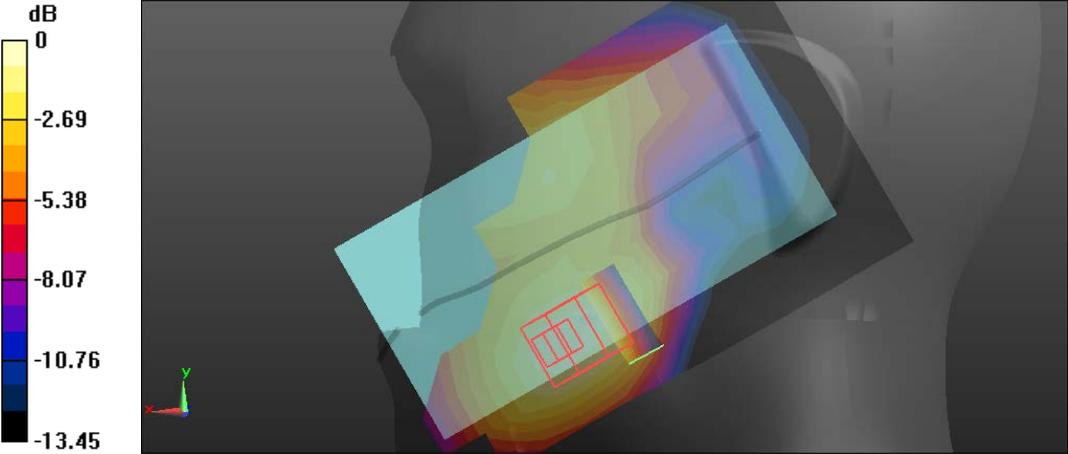Maximum value of SAR (measured) = 0.0657 W/kg

0 dB = 0.0657 W/kg = -11.82 dBW/kg

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

FLAT	Towards phantom

Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ε_r = 51.14; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL LTE band2 TP/LTE band2 1RB LOW TP M 10mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.334 W/kg

Flat-Section MSL LTE band2 TP/LTE band2 1RB LOW TP M 10mm/Zoom Scan

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

Reference Value = 4.994 V/m; Power Drift = 0.21 dB
Peak SAR (extrapolated) = 0.530 W/kg
SAR(1 g) = 0.330 W/kg; SAR(10 g) = 0.191 W/kg
Maximum value of SAR (measured) = 0.370 W/kg

0 dB = 0.370 W/kg = -4.32 dBW/kg

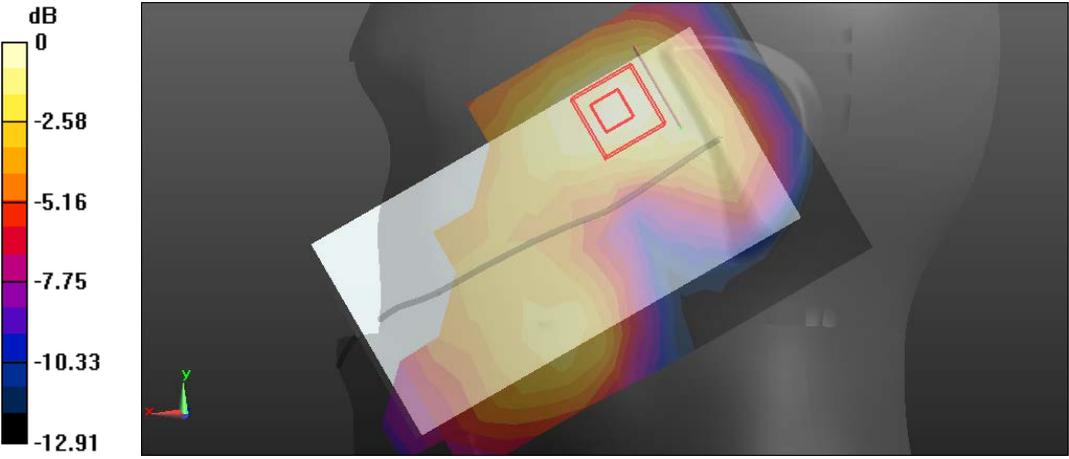| FLAT	Towards ground

Communication System: UID 0, LTE band 2 (0); Frequency: 1860 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1860 MHz; σ = 1.543 S/m; ε$_r$ = 51.207; ρ = 1000 kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL LTE band2 TG/LTE band2 1RB LOW TG L 10mm 2 2/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.783 W/kg

Flat-Section MSL LTE band2 TG/LTE band2 1RB LOW TG L 10mm 2 2/Zoom Scan

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

Reference Value = 5.491 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 1.44 W/kg
SAR(1 g) = 0.815 W/kg; SAR(10 g) = 0.432 W/kg
Maximum value of SAR (measured) = 0.894 W/kg

0 dB = 0.894 W/kg = -0.49 dBW/kg

FLAT	Towards ground

Communication System: UID 0, LTE band 2 (0); Frequency: 1860 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1860 MHz; σ = 1.543 S/m; ε $_r$ = 51.207;
ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL LTE band2 TG/LTE band2 1RB LOW TG L2 10mm 2 2 2/Area

Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.719 W/kg

Flat-Section MSL LTE band2 TG/LTE band2 1RB LOW TG L2 10mm 2 2 2/Zoom

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

Reference Value = 5.683 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.39 W/kg
SAR(1 g) = 0.801 W/kg; SAR(10 g) = 0.431 W/kg
Maximum value of SAR (measured) = 0.908 W/kg

0 dB = 0.908 W/kg = -0.42 dBW/kg

FLAT	**Towards ground**

Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ε_r = 51.14; ρ = 1000 kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL LTE band2 TG/LTE band2 1RB LOW TG M 10mm 2/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.769 W/kg

Flat-Section MSL LTE band2 TG/LTE band2 1RB LOW TG M 10mm 2/Zoom Scan

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

Reference Value = 5.499 V/m; Power Drift = 0.21 dB
Peak SAR (extrapolated) = 1.44 W/kg
SAR(1 g) = 0.806 W/kg; SAR(10 g) = 0.419 W/kg
Maximum value of SAR (measured) = 0.907 W/kg

0 dB = 0.907 W/kg = −0.42 dBW/kg

FLAT	**Towards ground**

Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ε_r = 51.14; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL LTE band2 TG/LTE band2 1RB LOW TG M 10mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.775 W/kg

Flat-Section MSL LTE band2 TG/LTE band2 1RB LOW TG M 10mm/Zoom Scan

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

Reference Value = 5.501 V/m; Power Drift = 0.21 dB
Peak SAR (extrapolated) = 1.50 W/kg
SAR(1 g) = 0.827 W/kg; SAR(10 g) = 0.430 W/kg
Maximum value of SAR (measured) = 0.905 W/kg

0 dB = 0.905 W/kg = -0.43 dBW/kg

FLAT	**Towards ground**

Communication System: UID 0, LTE band 2 (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.57 S/m; $ε_r$ = 51.05; ρ = 1000 kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL LTE band2 TG/LTE band2 1RB LOW TG H 10mm 2 2 2/Area

Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.720 W/kg

Flat-Section MSL LTE band2 TG/LTE band2 1RB LOW TG H 10mm 2 2 2/Zoom

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

Reference Value = 4.850 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 1.36 W/kg
SAR(1 g) = 0.772 W/kg; SAR(10 g) = 0.408 W/kg
Maximum value of SAR (measured) = 0.846 W/kg

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

FLAT	EDGE2

Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ε $_r$ = 51.14; ρ = 1000 kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL LTE band2 HOT/LTE Band2 edge2 2/Area Scan (5x9x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.692 W/kg

Flat-Section MSL LTE band2 HOT/LTE Band2 edge2 2/Zoom Scan

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

Reference Value = 20.98 V/m; Power Drift = −0.08 dB
Peak SAR (extrapolated) = 1.06 W/kg
SAR(1 g) = 0.656 W/kg; SAR(10 g) = 0.381 W/kg
Maximum value of SAR (measured) = 0.721 W/kg

0 dB = 0.721 W/kg = −1.42 dBW/kg

FLAT	**EDGE3**

Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ε$_r$ = 51.14; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL LTE band2 HOT/LTE Band2 edge3/Area Scan (5x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.100 W/kg

Flat-Section MSL LTE band2 HOT/LTE Band2 edge3/Zoom Scan (7x7x7)/Cube

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

Reference Value = 3.370 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.183 W/kg
SAR(1 g) = 0.098 W/kg; SAR(10 g) = 0.058 W/kg
Maximum value of SAR (measured) = 0.119 W/kg
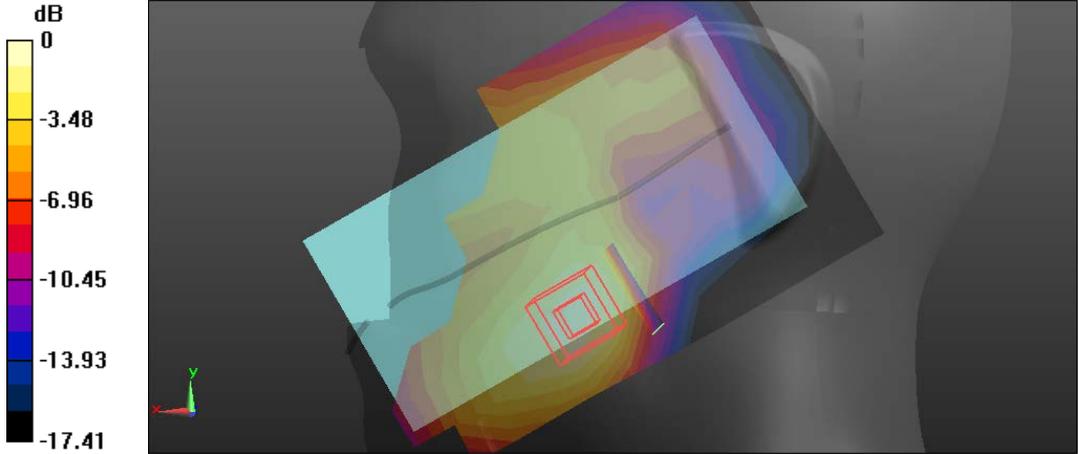

0 dB = 0.119 W/kg = −9.24 dBW/kg

FLAT	EDGE4

Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ε $_r$ = 51.14; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL LTE band2 HOT/LTE Band2 edge4/Area Scan (5x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.127 W/kg

Flat-Section MSL LTE band2 HOT/LTE Band2 edge4/Zoom Scan (7x7x7)/Cube

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

Reference Value = 4.400 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.204 W/kg
SAR(1 g) = 0.132 W/kg; SAR(10 g) = 0.081 W/kg
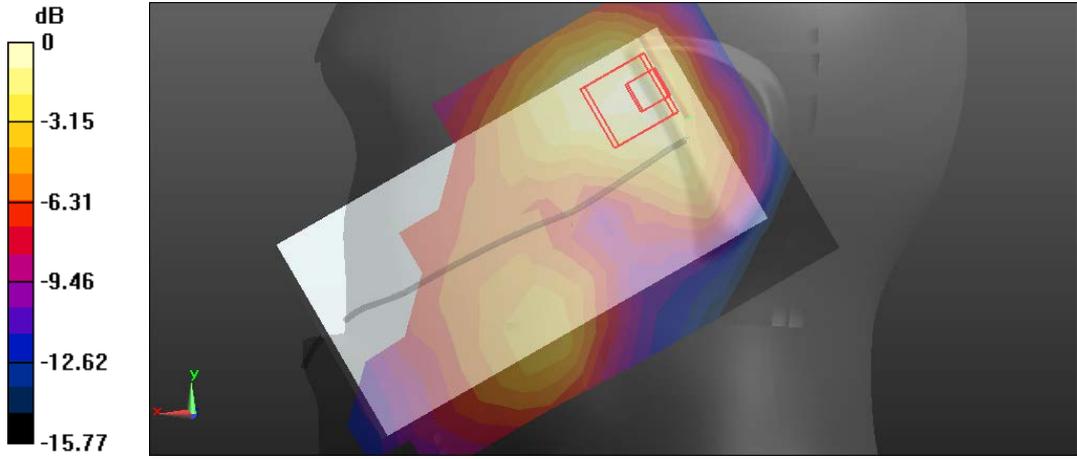Maximum value of SAR (measured) = 0.143 W/kg

0 dB = 0.143 W/kg = -8.45 dBW/kg

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 MHz; σ = 1.45 S/m; $ε_r$ = 39.74; ρ = 1000 kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL LTE band2/LTE band2 50RB LOW HSL touch M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.116 W/kg

Head-Section Left HSL LTE band2/LTE band2 50RB LOW HSL touch M/Zoom

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

Reference Value = 3.652 V/m; Power Drift = −0.07 dB
Peak SAR (extrapolated) = 0.175 W/kg
SAR(1 g) = 0.107 W/kg; SAR(10 g) = 0.063 W/kg

0 dB = 0.116 W/kg = −9.36 dBW/kg

Left Side	Tilt

Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.45 S/m; ε$_r$ = 39.74; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL LTE band2/LTE band2 50RB LOW HSL tilt M/Area Scan

(8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0739 W/kg

Head-Section Left HSL LTE band2/LTE band2 50RB LOW HSL tilt M/Zoom Scan

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

Reference Value = 5.360 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.110 W/kg
SAR(1 g) = 0.070 W/kg; SAR(10 g) = 0.043 W/kg
Maximum value of SAR (measured) = 0.0754 W/kg

0 dB = 0.0754 W/kg = –11.23 dBW/kg

Right Side	Cheek

Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.45 S/m; ε_r = 39.74; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Right HSL LTE band2/LTE band2 50RB LOW HSL touch M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.156 W/kg

Head-Section Right HSL LTE band2/LTE band2 50RB LOW HSL touch M/Zoom

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

Reference Value = 2.192 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.229 W/kg
SAR(1 g) = 0.148 W/kg; SAR(10 g) = 0.092 W/kg
Maximum value of SAR (measured) = 0.159 W/kg

0 dB = 0.159 W/kg = -7.99 dBW/kg

Right Side	**Tilt**

Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.45 S/m; ε$_r$ = 39.74; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Right HSL LTE band2/LTE band2 50RB LOW HSL tilt M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0445 W/kg

Head-Section Right HSL LTE band2/LTE band2 50RB LOW HSL tilt M/Zoom

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

Reference Value = 3.856 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.0680 W/kg
SAR(1 g) = 0.043 W/kg; SAR(10 g) = 0.027 W/kg
Maximum value of SAR (measured) = 0.0459 W/kg

0 dB = 0.0459 W/kg = -13.38 dBW/kg

LTE (Band 2 20BW-50RB-Low/Flat)
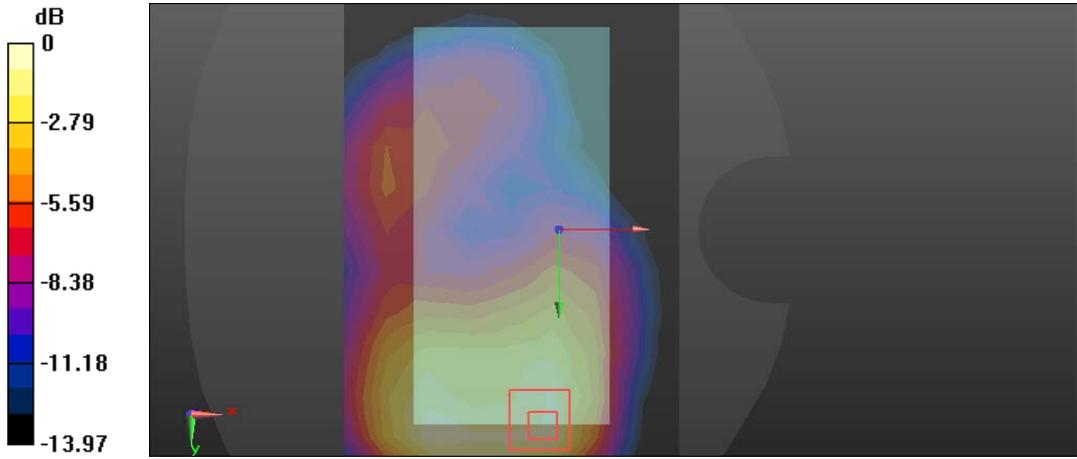
FLAT	Towards phantom

Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; $ε_r$ = 51.14; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL LTE band2 TP/LTE band2 50RB LOW TP M 10mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.266 W/kg

Flat-Section MSL LTE band2 TP/LTE band2 50RB LOW TP M 10mm/Zoom Scan

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

Reference Value = 4.909 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.401 W/kg
SAR(1 g) = 0.247 W/kg; SAR(10 g) = 0.146 W/kg
Maximum value of SAR (measured) = 0.271 W/kg

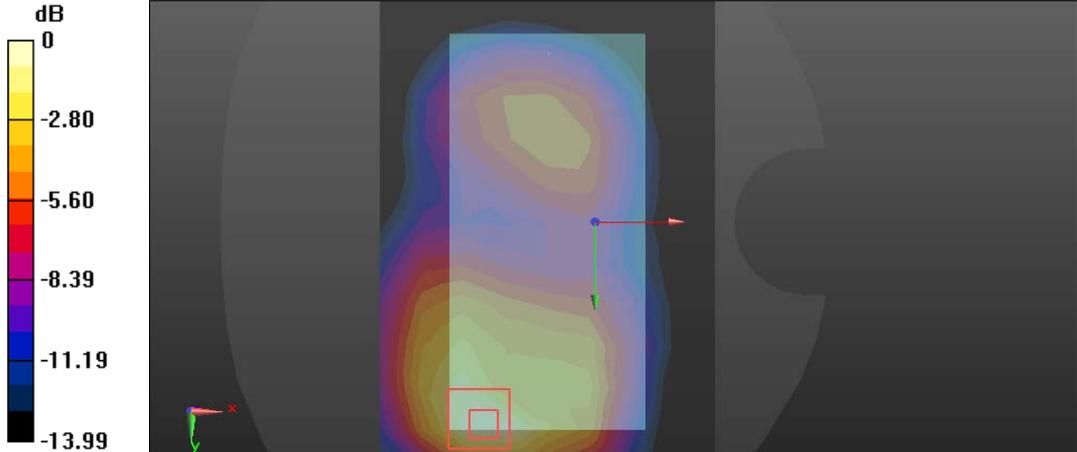0 dB = 0.271 W/kg = -5.67 dBW/kg

FLAT	**Towards ground**

Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ε_r = 51.14; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL LTE band2 TG/LTE band2 50RB LOW TG M 10mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.613 W/kg

Flat-Section MSL LTE band2 TG/LTE band2 50RB LOW TG M 10mm/Zoom Scan

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

Reference Value = 5.047 V/m; Power Drift = −0.03 dB
Peak SAR (extrapolated) = 1.17 W/kg
SAR(1 g) = 0.650 W/kg; SAR(10 g) = 0.338 W/kg
Maximum value of SAR (measured) = 0.716 W/kg

0 dB = 0.716 W/kg = −1.45 dBW/kg

LTE (Band 4 15BW-1RB-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; σ = 1.304 S/m; ε $_r$ = 40.408;
ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL LTE band4/LTE band4 15MHz 1RB LOW HSL touch

M/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.254 W/kg

Head-Section Left HSL LTE band4/LTE band4 15MHz 1RB LOW HSL touch

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

Reference Value = 5.666 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.381 W/kg
SAR(1 g) = 0.247 W/kg; SAR(10 g) = 0.154 W/kg
Maximum value of SAR (measured) = 0.266 W/kg

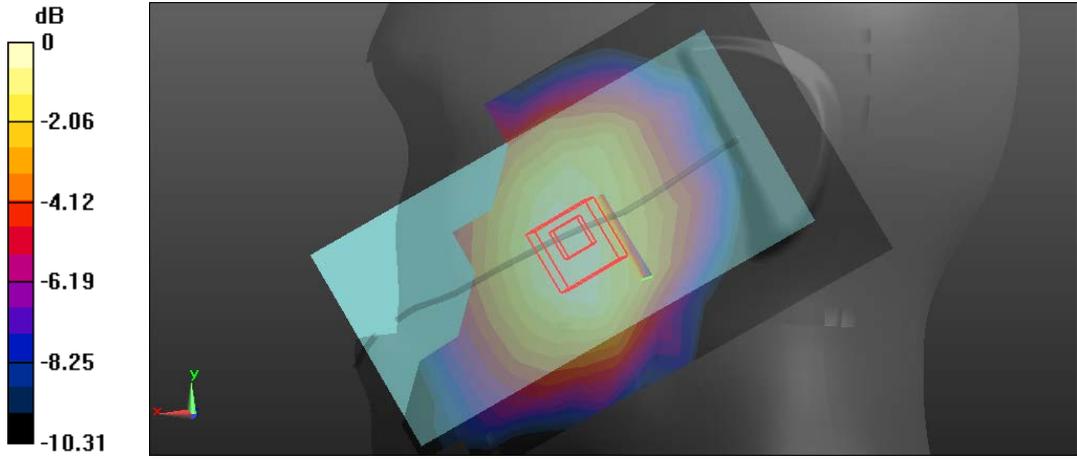0 dB = 0.266 W/kg = -5.75 dBW/kg

Left Side	Tilt

Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.304 S/m; ε $_r$ = 40.408; ρ = 1000 kg/m^3

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL LTE band4/LTE band4 15MHz 1RB LOW HSL tilt M/Area

Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.144 W/kg

Head-Section Left HSL LTE band4/LTE band4 15MHz 1RB LOW HSL tilt M/Zoom

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

Reference Value = 9.168 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.288 W/kg

SAR(1 g) = 0.149 W/kg; SAR(10 g) = 0.091 W/kg

Maximum value of SAR (measured) = 0.169 W/kg

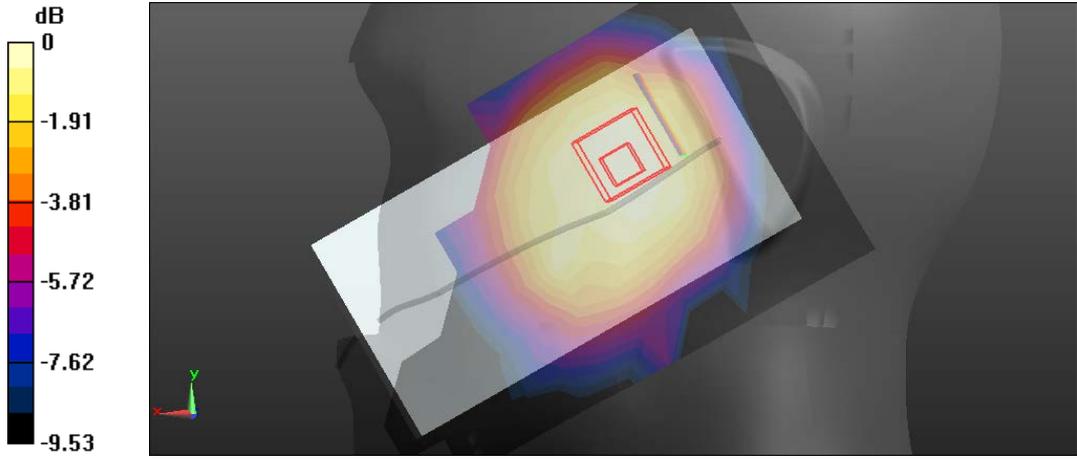0 dB = 0.169 W/kg = -7.72 dBW/kg

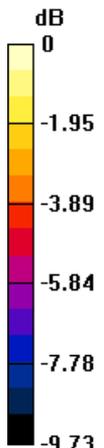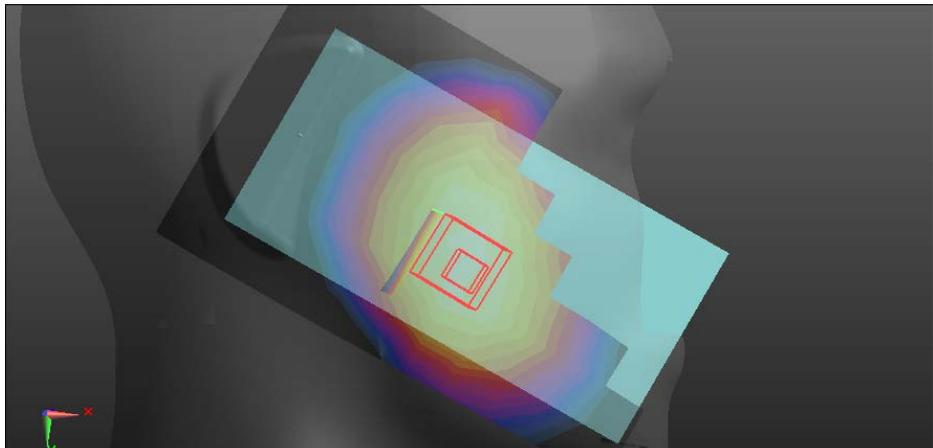| Right Side	Cheek

Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.304 S/m; ε_r = 40.408; ρ = 1000 kg/m^3

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Right HSL LTE band4/LTE band4 15MHz 1RB LOW HSL touch

M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.190 W/kg

Head-Section Right HSL LTE band4/LTE band4 15MHz 1RB LOW HSL touch

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

Reference Value = 5.921 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.267 W/kg

SAR(1 g) = 0.182 W/kg; SAR(10 g) = 0.118 W/kg

Maximum value of SAR (measured) = 0.193 W/kg

0 dB = 0.193 W/kg = -7.14 dBW/kg

Right Side	Tilt

Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.304 S/m; ε $_r$ = 40.408; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Right HSL LTE band4/LTE band4 15MHz 1RB LOW HSL tilt

M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0831 W/kg

Head-Section Right HSL LTE band4/LTE band4 15MHz 1RB LOW HSL tilt

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

Reference Value = 8.202 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.125 W/kg
SAR(1 g) = 0.081 W/kg; SAR(10 g) = 0.051 W/kg
Maximum value of SAR (measured) = 0.0886 W/kg

0 dB = 0.0886 W/kg = −10.53 dBW/kg

LTE (Band 4 15BW-1RB-Low/Flat)

FLAT	Towards phantom

Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.459 S/m; ε$_r$ = 53.239;
ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL LTE band4 TP/LTE band4 1RB LOW TP M 10mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.428 W/kg

Flat-Section MSL LTE band4 TP/LTE band4 1RB LOW TP M 10mm/Zoom Scan

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

Reference Value = 5.521 V/m; Power Drift = −0.12 dB
Peak SAR (extrapolated) = 0.528 W/kg
SAR(1 g) = 0.337 W/kg; SAR(10 g) = 0.209 W/kg
Maximum value of SAR (measured) = 0.363 W/kg

0 dB = 0.363 W/kg = −4.40 dBW/kg

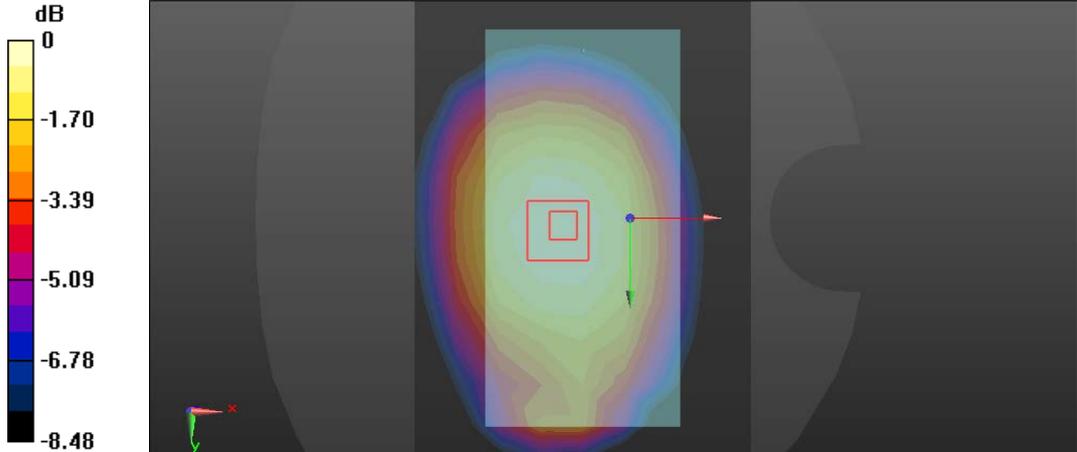| FLAT	Towards ground

Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.459 S/m; ε$_r$ = 53.239; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL LTE band4 TG/LTE band4 1RB LOW TG M 10mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.758 W/kg

Flat-Section MSL LTE band4 TG/LTE band4 1RB LOW TG M 10mm/Zoom Scan

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

Reference Value = 8.006 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 1.24 W/kg
SAR(1 g) = 0.781 W/kg; SAR(10 g) = 0.465 W/kg
Maximum value of SAR (measured) = 0.866 W/kg

0 dB = 0.866 W/kg = −0.62 dBW/kg

FLAT	EDGE2

Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.459 S/m; ε $_r$ = 53.239; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL LTE band4 HOT/LTE band4 edge 2/Area Scan (5x9x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.595 W/kg

Flat-Section MSL LTE band4 HOT/LTE band4 edge 2/Zoom Scan (7x7x7)/Cube

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

Reference Value = 18.97 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.678 W/kg; SAR(10 g) = 0.390 W/kg

Maximum value of SAR (measured) = 0.762 W/kg
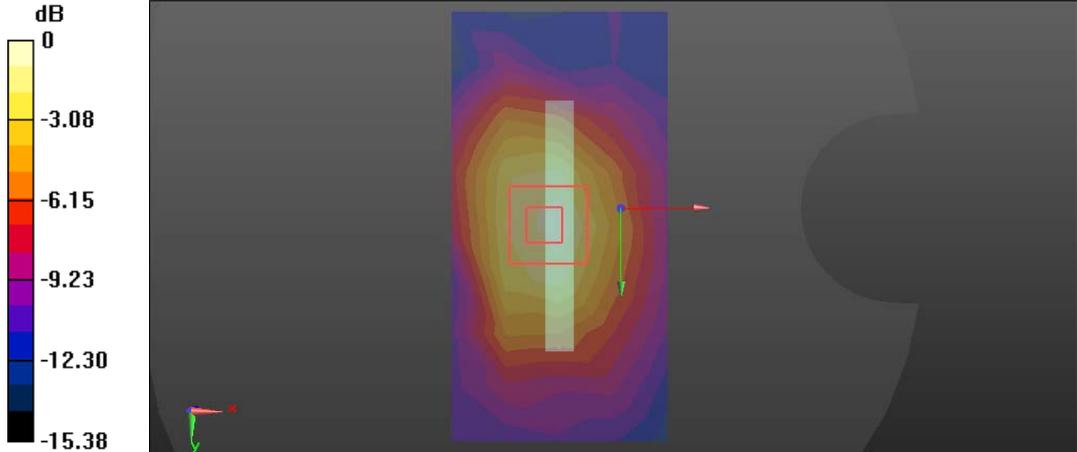

0 dB = 0.762 W/kg = -1.18 dBW/kg

FLAT	EDGE3

Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.459 S/m; ε_r = 53.239;
ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL LTE band4 HOT/LTE band4 edge 3/Area Scan (6x14x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.398 W/kg

Flat-Section MSL LTE band4 HOT/LTE band4 edge 3/Zoom Scan (7x7x7)/Cube

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

Reference Value = 7.787 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.652 W/kg
SAR(1 g) = 0.413 W/kg; SAR(10 g) = 0.247 W/kg
Maximum value of SAR (measured) = 0.455 W/kg
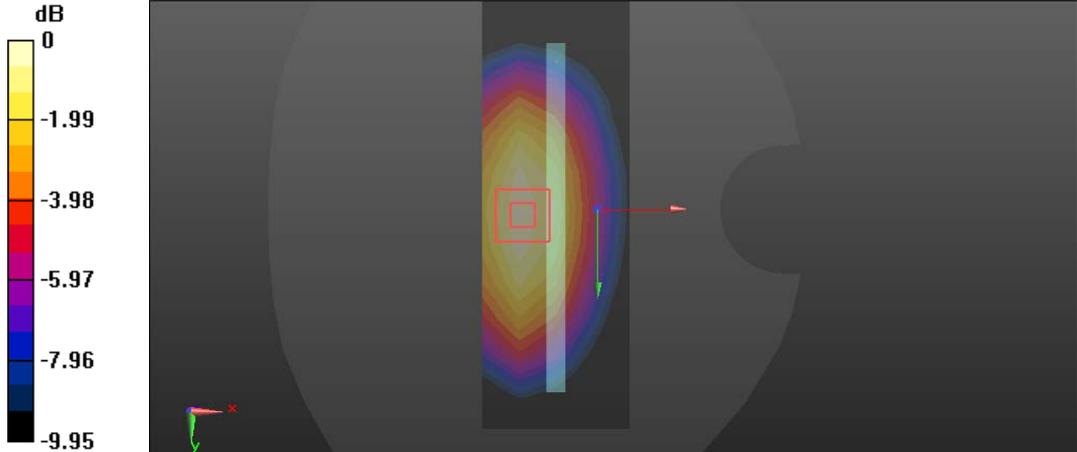

0 dB = 0.455 W/kg = -3.42 dBW/kg

FLAT	EDGE4

Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.459 S/m; ε $_r$ = 53.239;
ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL LTE band4 HOT/LTE band4 edge 4/Area Scan (6x14x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.380 W/kg

Flat-Section MSL LTE band4 HOT/LTE band4 edge 4/Zoom Scan (7x7x7)/Cube

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

Reference Value = 8.688 V/m; Power Drift = 0.20 dB
Peak SAR (extrapolated) = 0.550 W/kg
SAR(1 g) = 0.348 W/kg; SAR(10 g) = 0.201 W/kg
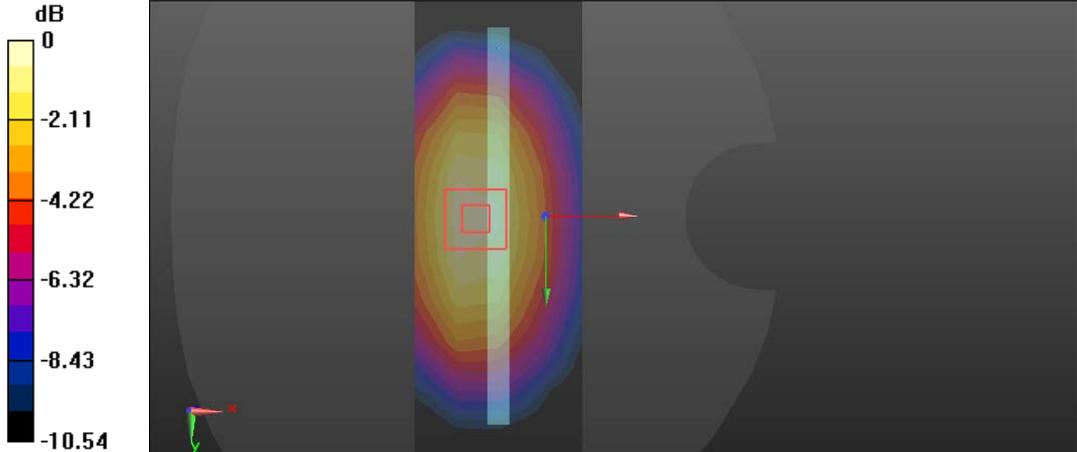Maximum value of SAR (measured) = 0.391 W/kg

0 dB = 0.391 W/kg = -4.08 dBW/kg

LTE (Band 4 20BW-1RB-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; σ = 1.304 S/m; ε $_r$ = 40.408;
ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL LTE band4/LTE band4 1RB LOW HSL touch M/Area Scan

(8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.242 W/kg

Head-Section Left HSL LTE band4/LTE band4 1RB LOW HSL touch M/Zoom Scan

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

Reference Value = 4.681 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.349 W/kg
SAR(1 g) = 0.225 W/kg; SAR(10 g) = 0.142 W/kg
Maximum value of SAR (measured) = 0.245 W/kg

0 dB = 0.245 W/kg = -6.11 dBW/kg

Left Side	Tilt

Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.304 S/m; ε$_r$ = 40.408;
ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL LTE band4/LTE band4 1RB LOW HSL tilt M/Area Scan

(8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0961 W/kg

Head-Section Left HSL LTE band4/LTE band4 1RB LOW HSL tilt M/Zoom Scan

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

Reference Value = 7.377 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 0.137 W/kg
SAR(1 g) = 0.092 W/kg; SAR(10 g) = 0.060 W/kg
Maximum value of SAR (measured) = 0.0984 W/kg

0 dB = 0.0984 W/kg = -10.07 dBW/kg

Right 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; σ = 1.304 S/m; ε $_r$ = 40.408;
ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Right HSL LTE band4/LTE band4 1RB LOW HSL touch M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.206 W/kg

Head-Section Right HSL LTE band4/LTE band4 1RB LOW HSL touch M/Zoom

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

Reference Value = 6.708 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.293 W/kg
SAR(1 g) = 0.198 W/kg; SAR(10 g) = 0.128 W/kg
Maximum value of SAR (measured) = 0.214 W/kg

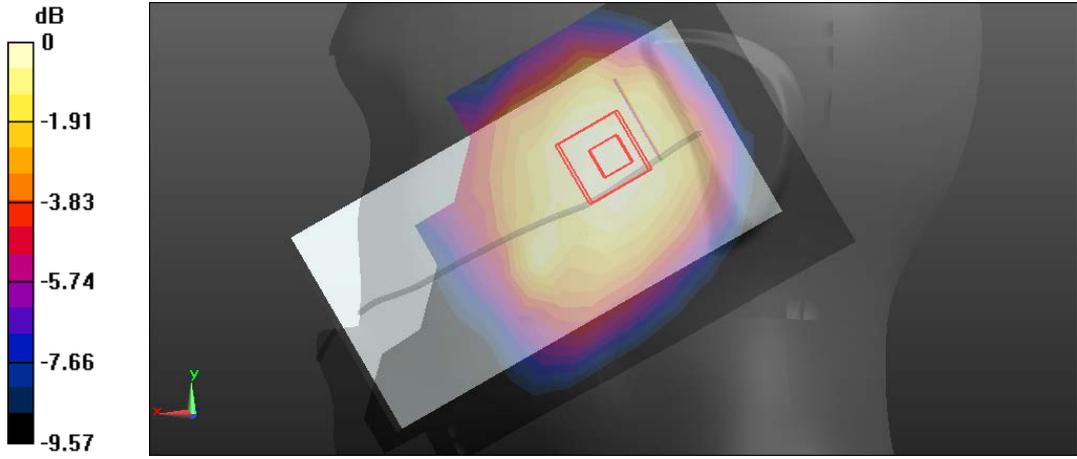

0 dB = 0.214 W/kg = -6.70 dBW/kg

Right Side	Tilt

Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.304 S/m; ε $_r$ = 40.408; ρ = 1000 kg/m^3

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Right HSL LTE band4/LTE band4 1RB LOW HSL tilt M/Area Scan

(8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0740 W/kg

Head-Section Right HSL LTE band4/LTE band4 1RB LOW HSL tilt M/Zoom Scan

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

Reference Value = 7.459 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 0.112 W/kg
SAR(1 g) = 0.073 W/kg; SAR(10 g) = 0.044 W/kg
Maximum value of SAR (measured) = 0.0795 W/kg

0 dB = 0.0795 W/kg = –11.00 dBW/kg

LTE (Band 4 20BW-1RB-Low/Flat)
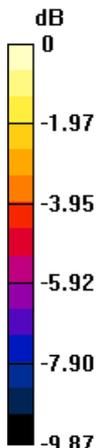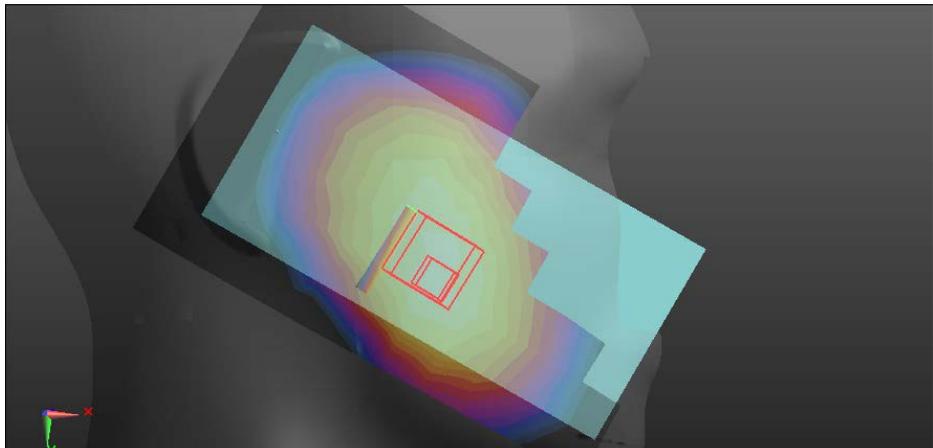
FLAT	Towards phantom

Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.459 S/m; ε $_r$ = 53.239; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL LTE band4 TP/LTE band4 1RB LOW TP M 10mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.392 W/kg

Flat-Section MSL LTE band4 TP/LTE band4 1RB LOW TP M 10mm/Zoom Scan

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

Reference Value = 5.391 V/m; Power Drift = –0.18 dB
Peak SAR (extrapolated) = 0.609 W/kg
SAR(1 g) = 0.382 W/kg; SAR(10 g) = 0.235 W/kg
Maximum value of SAR (measured) = 0.420 W/kg

0 dB = 0.420 W/kg = –3.77 dBW/kg

FLAT	Towards ground

Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.459 S/m; ε $_r$ = 53.239;
ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL LTE band4 TG/LTE band4 1RB LOW TG M 10mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.713 W/kg

Flat-Section MSL LTE band4 TG/LTE band4 1RB LOW TG M 10mm/Zoom Scan

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

Reference Value = 8.882 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 1.10 W/kg
SAR(1 g) = 0.679 W/kg; SAR(10 g) = 0.402 W/kg
Maximum value of SAR (measured) = 0.737 W/kg

0 dB = 0.737 W/kg = -1.33 dBW/kg

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; σ = 1.304 S/m; ε_r = 40.408;
ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL LTE band4/LTE band4 50RB LOW HSL touch M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.201 W/kg

Head-Section Left HSL LTE band4/LTE band4 50RB LOW HSL touch M/Zoom

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

Reference Value = 5.082 V/m; Power Drift = 0.20 dB
Peak SAR (extrapolated) = 0.328 W/kg
SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.131 W/kg
Maximum value of SAR (measured) = 0.231 W/kg

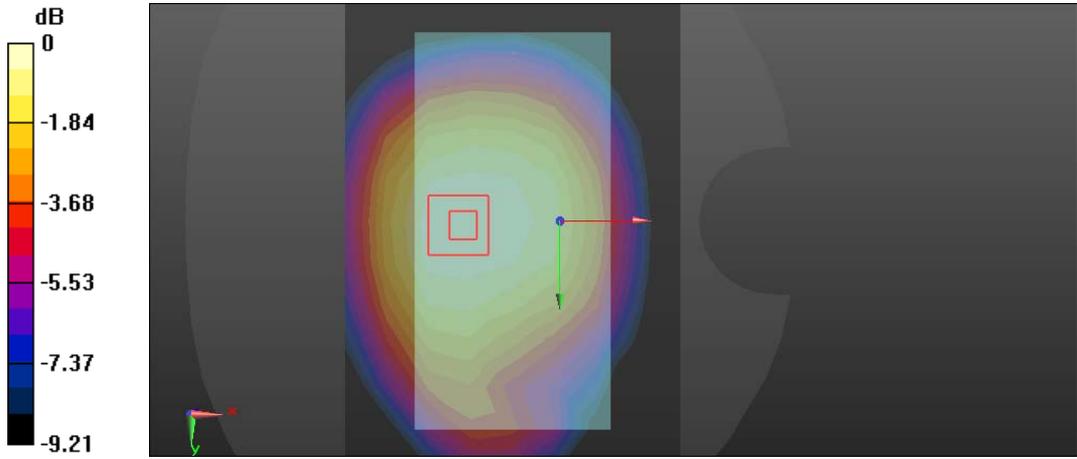0 dB = 0.231 W/kg = -6.36 dBW/kg

Left Side	Tilt

Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.304 S/m; ε $_r$ = 40.408;
ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL LTE band4/LTE band4 50RB LOW HSL tilt M/Area Scan

(8x13x1): Measurement grid: dx=15mm, dy=15mm

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

Head-Section Left HSL LTE band4/LTE band4 50RB LOW HSL tilt M/Zoom Scan

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

Reference Value = 8.338 V/m; Power Drift = 0.21 dB
Peak SAR (extrapolated) = 0.229 W/kg
SAR(1 g) = 0.118 W/kg; SAR(10 g) = 0.074 W/kg
Maximum value of SAR (measured) = 0.132 W/kg
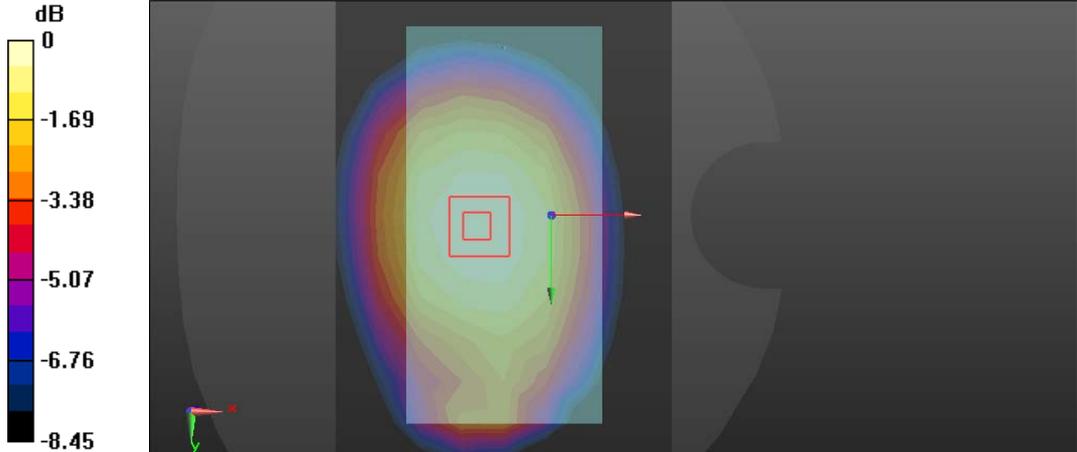

0 dB = 0.132 W/kg = -8.79 dBW/kg

Right 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; σ = 1.304 S/m; ε $_r$ = 40.408;
ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Right HSL LTE band4/LTE band4 50RB LOW HSL touch M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.184 W/kg

Head-Section Right HSL LTE band4/LTE band4 50RB LOW HSL touch M/Zoom

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

Reference Value = 5.906 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.256 W/kg
SAR(1 g) = 0.175 W/kg; SAR(10 g) = 0.113 W/kg
Maximum value of SAR (measured) = 0.186 W/kg
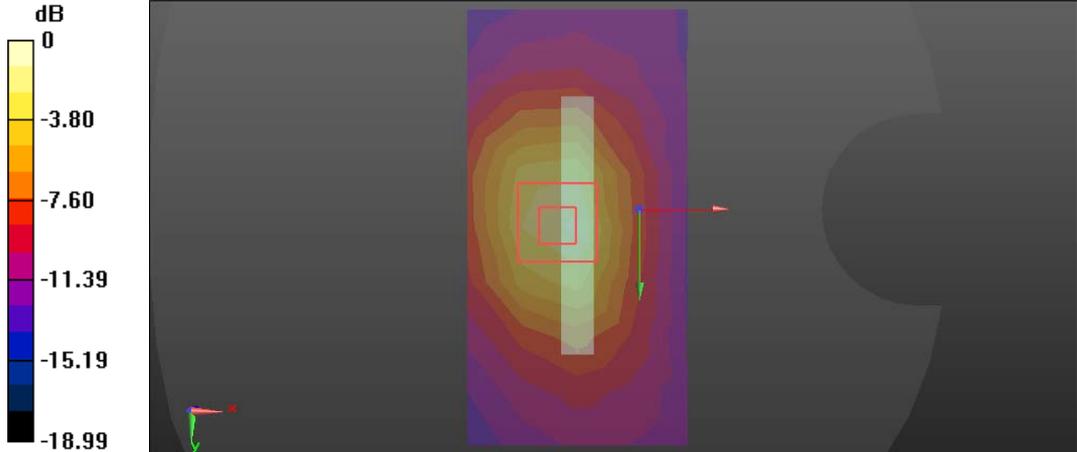

0 dB = 0.186 W/kg = -7.30 dBW/kg

Right Side	Tilt

Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.304 S/m; ε $_r$ = 40.408;
ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Right HSL LTE band4/LTE band4 50RB LOW HSL tilt M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0663 W/kg

Head-Section Right HSL LTE band4/LTE band4 50RB LOW HSL tilt M/Zoom

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

Reference Value = 7.104 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 0.0980 W/kg
SAR(1 g) = 0.063 W/kg; SAR(10 g) = 0.039 W/kg
Maximum value of SAR (measured) = 0.0689 W/kg

0 dB = 0.0689 W/kg = -11.62 dBW/kg

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

FLAT	Towards phantom

Communication System: UID 0, LTE Band 3 (0); Frequency: 1747.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1747.5 MHz; σ = 1.477 S/m; ε $_r$ = 53.145;

ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL LTE band4 TP/LTE band4 1RB LOW TP M 5mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.351 W/kg

Flat-Section MSL LTE band4 TP/LTE band4 1RB LOW TP M 5mm/Zoom Scan

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

Reference Value = 5.316 V/m; Power Drift = −0.20 dB
Peak SAR (extrapolated) = 0.548 W/kg
SAR(1 g) = 0.341 W/kg; SAR(10 g) = 0.211 W/kg
Maximum value of SAR (measured) = 0.385 W/kg

0 dB = 0.385 W/kg = −4.15 dBW/kg

FLAT	Towards ground

Communication System: UID 0, LTE Band 3 (0); Frequency: 1747.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1747.5 MHz; σ = 1.477 S/m; ε_r = 53.145; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); 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)

Flat-Section MSL LTE band4 TG/LTE band4 1RB LOW TG M 5mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.736 W/kg

Flat-Section MSL LTE band4 TG/LTE band4 1RB LOW TG M 5mm/Zoom Scan

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

Reference Value = 9.018 V/m; Power Drift = -0.20 dB
Peak SAR (extrapolated) = 1.14 W/kg
SAR(1 g) = 0.705 W/kg; SAR(10 g) = 0.410 W/kg
Maximum value of SAR (measured) = 0.783 W/kg

0 dB = 0.783 W/kg = -1.06 dBW/kg
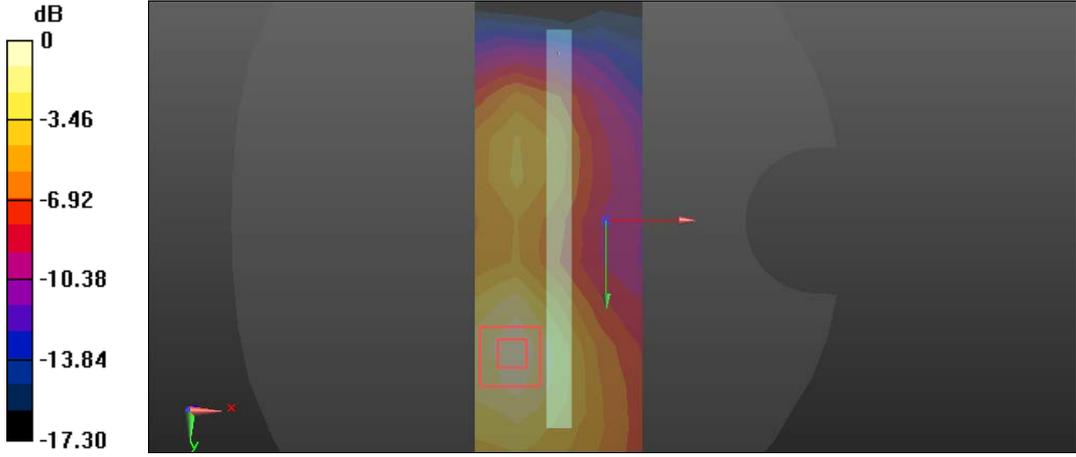
LTE (Band 5 10BW-1RB-Low/Head)

Left Side	Cheek

Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.89 S/m; ε $_r$ = 41.479;

ρ = 1000 kg/m^3

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL LTE band5/LTE band5 1RB LOW HSL touch M/Area Scan

(8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.190 W/kg

Head-Section Left HSL LTE band5/LTE band5 1RB LOW HSL touch M/Zoom Scan

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

Reference Value = 4.774 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.175 W/kg

SAR(1 g) = 0.141 W/kg; SAR(10 g) = 0.107 W/kg

Maximum value of SAR (measured) = 0.153 W/kg

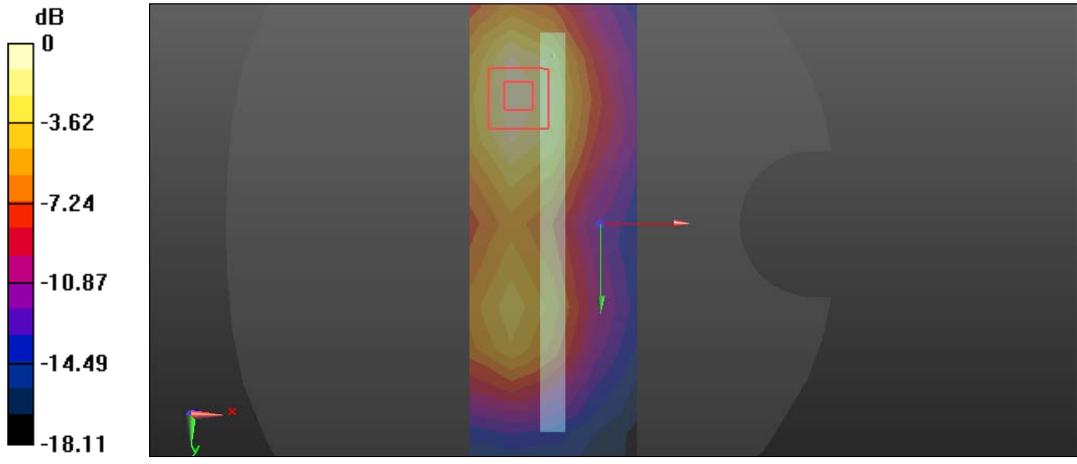

0 dB = 0.153 W/kg = -8.15 dBW/kg

Left Side	Tilt

Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.89 S/m; ε_r = 41.479;
ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL LTE band5/LTE band5 1RB LOW HSL tilt M/Area Scan

(8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0878 W/kg

Head-Section Left HSL LTE band5/LTE band5 1RB LOW HSL tilt M/Zoom Scan

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

Reference Value = 7.563 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.132 W/kg
SAR(1 g) = 0.088 W/kg; SAR(10 g) = 0.067 W/kg
Maximum value of SAR (measured) = 0.0929 W/kg

0 dB = 0.0929 W/kg = –10.32 dBW/kg

Right Side	**Cheek**

Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.89 S/m; ε_r = 41.479; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Right HSL LTE band5/LTE band5 1RB LOW HSL touch M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.180 W/kg

Head-Section Right HSL LTE band5/LTE band5 1RB LOW HSL touch M/Zoom

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

Reference Value = 4.129 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.224 W/kg
SAR(1 g) = 0.175 W/kg; SAR(10 g) = 0.134 W/kg
Maximum value of SAR (measured) = 0.186 W/kg

0 dB = 0.186 W/kg = -7.30 dBW/kg

Right Side	Tilt

Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.89 S/m; ε_r = 41.479; ρ = 1000 kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Right HSL LTE band5/LTE band5 1RB LOW HSL tilt M/Area Scan

(8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0887 W/kg

Head-Section Right HSL LTE band5/LTE band5 1RB LOW HSL tilt M/Zoom Scan

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

Reference Value = 6.877 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.108 W/kg
SAR(1 g) = 0.087 W/kg; SAR(10 g) = 0.067 W/kg
Maximum value of SAR (measured) = 0.0919 W/kg

0 dB = 0.0919 W/kg = -10.37 dBW/kg

LTE (Band 5 10BW-1RB-Low/Flat)

FLAT	Towards phantom

Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.96 S/m; ε $_r$ = 55.859;

ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL LTE band5 TP/LTE band5 1RB LOW TP M 10mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.267 W/kg

Flat-Section MSL LTE band5 TP/LTE band5 1RB LOW TP M 10mm/Zoom Scan

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

Reference Value = 16.36 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.341 W/kg

SAR(1 g) = 0.263 W/kg; SAR(10 g) = 0.196 W/kg

Maximum value of SAR (measured) = 0.280 W/kg

0 dB = 0.280 W/kg = −5.53 dBW/kg

FLAT	Towards ground

Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.96 S/m; ε $_r$ = 55.859;
ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL LTE band5 TG/LTE band5 1RB LOW TG M 10mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.304 W/kg

Flat-Section MSL LTE band5 TG/LTE band5 1RB LOW TG M 10mm/Zoom Scan

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

Reference Value = 17.75 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.390 W/kg
SAR(1 g) = 0.298 W/kg; SAR(10 g) = 0.227 W/kg
Maximum value of SAR (measured) = 0.313 W/kg

0 dB = 0.313 W/kg = -5.04 dBW/kg

FLAT	EDGE2

Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.96 S/m; ε_r = 55.859;
ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL LTE band5 HOT/LTE Band2 edge2/Area Scan (5x9x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.0816 W/kg

Flat-Section MSL LTE band5 HOT/LTE Band2 edge2/Zoom Scan (7x7x7)/Cube

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

Reference Value = 9.178 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.132 W/kg
SAR(1 g) = 0.080 W/kg; SAR(10 g) = 0.047 W/kg
Maximum value of SAR (measured) = 0.0867 W/kg

0 dB = 0.0867 W/kg = -10.62 dBW/kg

FLAT	EDGE3

Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.96 S/m; ε$_r$ = 55.859; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL LTE band5 HOT/LTE Band2 edge3/Area Scan (5x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.201 W/kg

Flat-Section MSL LTE band5 HOT/LTE Band2 edge3/Zoom Scan (7x7x7)/Cube

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

Reference Value = 12.55 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.274 W/kg
SAR(1 g) = 0.189 W/kg; SAR(10 g) = 0.128 W/kg
Maximum value of SAR (measured) = 0.202 W/kg

0 dB = 0.202 W/kg = –6.95 dBW/kg

FLAT	EDGE4

Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.96 S/m; ε$_r$ = 55.859; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL LTE band5 HOT/LTE Band2 edge4/Area Scan (5x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.127 W/kg

Flat-Section MSL LTE band5 HOT/LTE Band2 edge4/Zoom Scan (7x7x7)/Cube

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

Reference Value = 11.37 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.186 W/kg

SAR(1 g) = 0.129 W/kg; SAR(10 g) = 0.087 W/kg

Maximum value of SAR (measured) = 0.138 W/kg

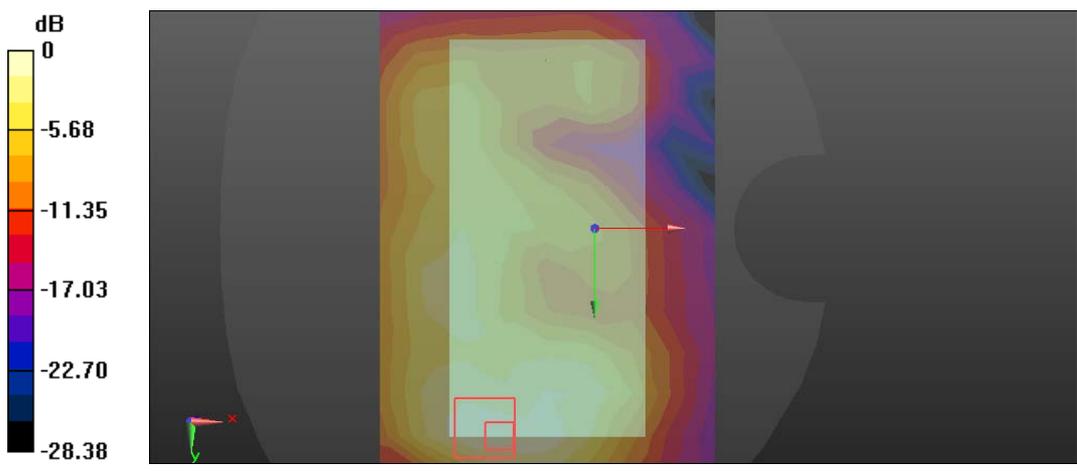0 dB = 0.138 W/kg = -8.60 dBW/kg

LTE (Band 5 10BW-25RB-Low/Head)

Left Side	Cheek

Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.89 S/m; ε$_r$ = 41.479;
ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL LTE band5/LTE band5 25RB LOW HSL touch M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0998 W/kg

Head-Section Left HSL LTE band5/LTE band5 25RB LOW HSL touch M/Zoom

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

Reference Value = 4.802 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.106 W/kg
SAR(1 g) = 0.081 W/kg; SAR(10 g) = 0.063 W/kg
Maximum value of SAR (measured) = 0.0870 W/kg

0 dB = 0.0870 W/kg = -10.60 dBW/kg

Left Side	Tilt

Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.89 S/m; ε_r = 41.479; ρ = 1000 kg/m^3

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL LTE band5/LTE band5 25RB LOW HSL tilt M/Area Scan

(8x13x1): Measurement grid: dx=15mm, dy=15mm

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

Head-Section Left HSL LTE band5/LTE band5 25RB LOW HSL tilt M/Zoom Scan

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

Reference Value = 6.572 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.0670 W/kg

SAR(1 g) = 0.055 W/kg; SAR(10 g) = 0.043 W/kg
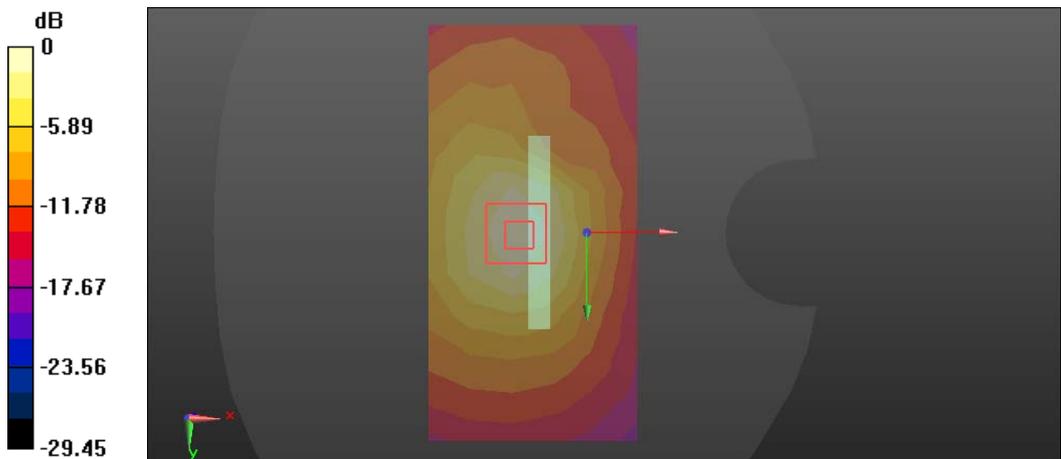
Maximum value of SAR (measured) = 0.0585 W/kg

0 dB = 0.0585 W/kg = -12.33 dBW/kg

Right Side	Cheek

Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.89 S/m; $ε_r$ = 41.479; ρ = 1000 kg/m^3

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Right HSL LTE band5/LTE band5 25RB LOW HSL touch M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.108 W/kg

Head-Section Right HSL LTE band5/LTE band5 25RB LOW HSL touch M/Zoom

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

Reference Value = 5.237 V/m; Power Drift = −0.07 dB

Peak SAR (extrapolated) = 0.137 W/kg

SAR(1 g) = 0.106 W/kg; SAR(10 g) = 0.080 W/kg

Maximum value of SAR (measured) = 0.112 W/kg
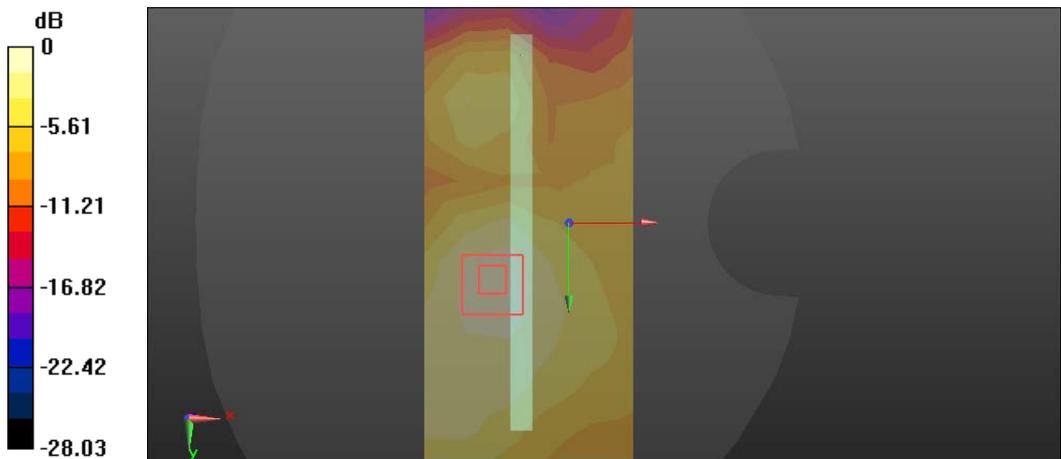

0 dB = 0.112 W/kg = −9.51 dBW/kg

Right Side	Tilt

Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.89 S/m; ε$_r$ = 41.479;
ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Right HSL LTE band5/LTE band5 25RB LOW HSL tilt M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0569 W/kg

Head-Section Right HSL LTE band5/LTE band5 25RB LOW HSL tilt M/Zoom

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

Reference Value = 6.311 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.0690 W/kg
SAR(1 g) = 0.056 W/kg; SAR(10 g) = 0.044 W/kg
Maximum value of SAR (measured) = 0.0584 W/kg

0 dB = 0.0584 W/kg = −12.34 dBW/kg

LTE (Band 5 10BW-25RB-Low/Flat)

FLAT	Towards phantom

Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.96 S/m; ε_r = 55.859; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL LTE band5 TP/LTE band5 25RB LOW TP M 10mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.160 W/kg

Flat-Section MSL LTE band5 TP/LTE band5 25RB LOW TP M 10mm/Zoom Scan

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

Reference Value = 12.55 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.199 W/kg
SAR(1 g) = 0.154 W/kg; SAR(10 g) = 0.116 W/kg
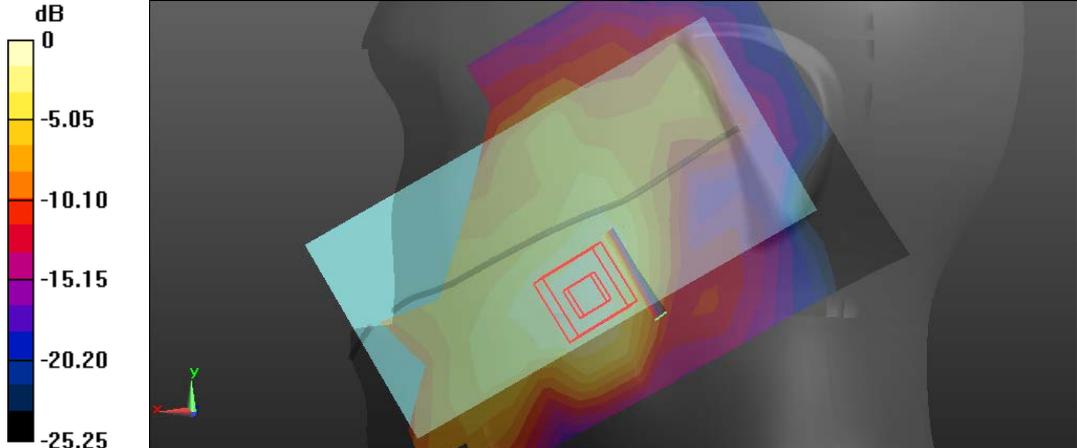Maximum value of SAR (measured) = 0.162 W/kg

0 dB = 0.162 W/kg = -7.90 dBW/kg

FLAT	**Towards ground**

Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.96 S/m; ε_r = 55.859; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL LTE band5 TG/LTE band5 25RB LOW TG M 10mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.246 W/kg

Flat-Section MSL LTE band5 TG/LTE band5 25RB LOW TG M 10mm/Zoom Scan

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

Reference Value = 16.00 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.305 W/kg
SAR(1 g) = 0.239 W/kg; SAR(10 g) = 0.181 W/kg
Maximum value of SAR (measured) = 0.250 W/kg

0 dB = 0.250 W/kg = -6.02 dBW/kg

FLAT	**EDGE2**

Communication System: UID 0, LTE band 2 (0); Frequency: 1860 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1860 MHz; σ = 1.543 S/m; ε $_r$ = 51.207;
ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL LTE band5 HOT/LTE Band2 edge2 L/Area Scan (5x9x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.651 W/kg

Flat-Section MSL LTE band5 HOT/LTE Band2 edge2 L/Zoom Scan

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

Reference Value = 20.01 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 1.27 W/kg
SAR(1 g) = 0.707 W/kg; SAR(10 g) = 0.362 W/kg
Maximum value of SAR (measured) = 0.800 W/kg

0 dB = 0.800 W/kg = -0.97 dBW/kg

FLAT	EDGE2

Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ε_r = 51.14; ρ = 1000 kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL LTE band5 HOT/LTE Band2 edge2/Area Scan (5x9x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.724 W/kg

Flat-Section MSL LTE band5 HOT/LTE Band2 edge2/Zoom Scan (7x7x7)/Cube

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

Reference Value = 21.19 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.41 W/kg
SAR(1 g) = 0.795 W/kg; SAR(10 g) = 0.412 W/kg
Maximum value of SAR (measured) = 0.899 W/kg

0 dB = 0.899 W/kg = −0.46 dBW/kg

FLAT	EDGE2

Communication System: UID 0, LTE band 2 (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.57 S/m; $ε_r$ = 51.05; ρ = 1000 kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL LTE band5 HOT/LTE Band2 edge2 H/Area Scan (5x9x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.684 W/kg

Flat-Section MSL LTE band5 HOT/LTE Band2 edge2 H/Zoom Scan

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

Reference Value = 20.49 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 1.34 W/kg
SAR(1 g) = 0.729 W/kg; SAR(10 g) = 0.370 W/kg
Maximum value of SAR (measured) = 0.827 W/kg

0 dB = 0.827 W/kg = −0.82 dBW/kg

FLAT	EDGE3

Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ε$_r$ = 51.14; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL LTE band5 HOT/LTE Band2 edge3/Area Scan (5x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.238 W/kg

Flat-Section MSL LTE band5 HOT/LTE Band2 edge3/Zoom Scan (7x7x7)/Cube

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

Reference Value = 5.875 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 0.376 W/kg
SAR(1 g) = 0.222 W/kg; SAR(10 g) = 0.129 W/kg
Maximum value of SAR (measured) = 0.243 W/kg

0 dB = 0.243 W/kg = -6.14 dBW/kg

FLAT	**EDGE4**

Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ε $_r$ = 51.14; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL LTE band5 HOT/LTE Band2 edge4/Area Scan (5x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.545 W/kg

Flat-Section MSL LTE band5 HOT/LTE Band2 edge4/Zoom Scan (7x7x7)/Cube

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

Reference Value = 8.266 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.888 W/kg
SAR(1 g) = 0.510 W/kg; SAR(10 g) = 0.288 W/kg
Maximum value of SAR (measured) = 0.556 W/kg
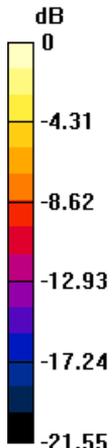

0 dB = 0.556 W/kg = −2.55 dBW/kg

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

Left Side	Cheek

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 (extrapolated): f = 2535 MHz; σ = 1.869 S/m; ε $_r$ = 38.76; ρ = 1000 kg/m^3

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: Twin-SAM 1660; Type: QD 000 P40 CD; Serial: 1660
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL LTE band7/LTE band7 20MHz 1RB Low HSL touch

M/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.465 W/kg

Head-Section Left HSL LTE band7/LTE band7 20MHz 1RB Low HSL touch

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

Reference Value = 5.407 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.916 W/kg
SAR(1 g) = 0.472 W/kg; SAR(10 g) = 0.245 W/kg
Maximum value of SAR (measured) = 0.511 W/kg
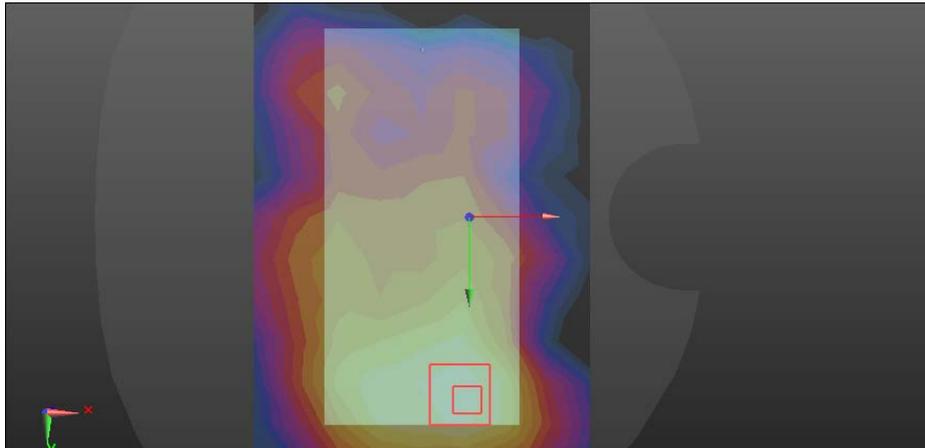

0 dB = 0.511 W/kg = -2.92 dBW/kg

Left Side	Tilt

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 (extrapolated): f = 2535 MHz; σ = 1.869 S/m; ε_r = 38.76; ρ = 1000 kg/m^3

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: Twin-SAM 1660; Type: QD 000 P40 CD; Serial: 1660
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL LTE band7/LTE band7 20MHz 1RB Low HSL tilt M/Area

Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.154 W/kg

Head-Section Left HSL LTE band7/LTE band7 20MHz 1RB Low HSL tilt M/Zoom

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

Reference Value = 5.595 V/m; Power Drift = −0.00 dB
Peak SAR (extrapolated) = 0.318 W/kg
SAR(1 g) = 0.151 W/kg; SAR(10 g) = 0.068 W/kg
Maximum value of SAR (measured) = 0.166 W/kg

0 dB = 0.166 W/kg = −7.80 dBW/kg

Right Side	Cheek

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 (extrapolated): f = 2535 MHz; σ = 1.869 S/m; ε_r = 38.76; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- 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 Right HSL LTE band7/LTE band7 20MHz 1RB Low HSL touch

M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.267 W/kg

Head-Section Right HSL LTE band7/LTE band7 20MHz 1RB Low HSL touch

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

Reference Value = 4.719 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.468 W/kg
SAR(1 g) = 0.234 W/kg; SAR(10 g) = 0.124 W/kg
Maximum value of SAR (measured) = 0.258 W/kg

0 dB = 0.258 W/kg = -5.88 dBW/kg

Right Side	**Tilt**

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 (extrapolated): f = 2535 MHz; σ = 1.869 S/m; ε_r = 38.76; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- 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 Right HSL LTE band7/LTE band7 20MHz 1RB Low HSL tilt

M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

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

Head-Section Right HSL LTE band7/LTE band7 20MHz 1RB Low HSL tilt

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

Reference Value = 6.198 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.210 W/kg
SAR(1 g) = 0.102 W/kg; SAR(10 g) = 0.050 W/kg
Maximum value of SAR (measured) = 0.114 W/kg

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

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

FLAT	Towards phantom

Communication System: UID 0, LTE Band 7 (0); Frequency: 2535 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2480 MHz; σ = 2.09 S/m; ε_r = 50.49; ρ = 1000 kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3708; ConvF(7.27, 7.27, 7.27); 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)

Flat-Section MSL LTE band7 TP/LTE band7 TP M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.340 W/kg

Flat-Section MSL LTE band7 TP/LTE band7 TP M 10mm/Zoom Scan

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

Reference Value = 6.402 V/m; Power Drift = 0.20 dB
Peak SAR (extrapolated) = 0.698 W/kg
SAR(1 g) = 0.305 W/kg; SAR(10 g) = 0.154 W/kg
Maximum value of SAR (measured) = 0.351 W/kg
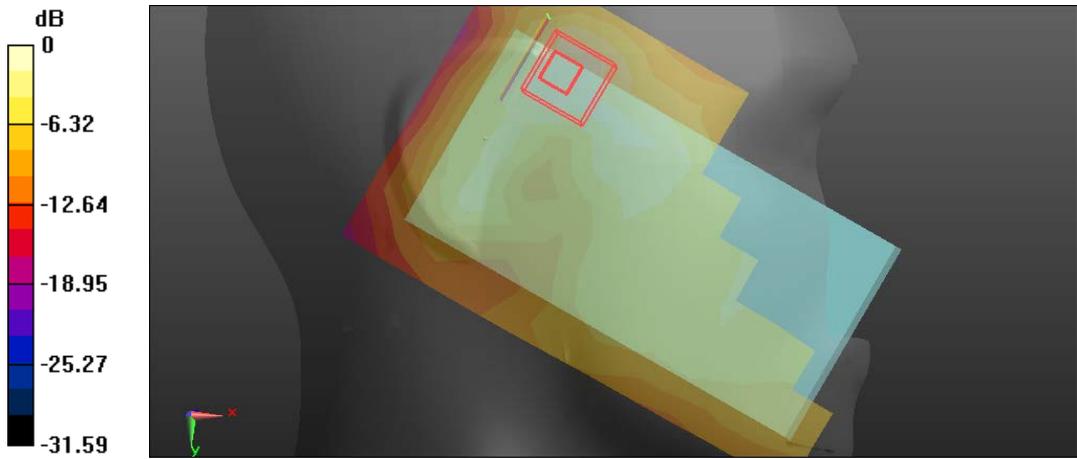

0 dB = 0.351 W/kg = -4.55 dBW/kg

FLAT	Towards ground

Communication System: UID 0, LTE Band 7 (0); Frequency: 2535 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2480 MHz; σ = 2.09 S/m; ε_r = 50.49; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.27, 7.27, 7.27); 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)

Flat-Section MSL LTE band7 TG/LTE band7 TG M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.646 W/kg

Flat-Section MSL LTE band7 TG/LTE band7 TG M 10mm/Zoom Scan

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

Reference Value = 7.968 V/m; Power Drift = –0.17 dB
Peak SAR (extrapolated) = 1.23 W/kg
SAR(1 g) = 0.633 W/kg; SAR(10 g) = 0.337 W/kg
Maximum value of SAR (measured) = 0.685 W/kg

0 dB = 0.685 W/kg = –1.64 dBW/kg

FLAT	EDGE2

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 = 2480 MHz; σ = 1.95 S/m; ε_r = 37.7; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL LTE band7 HOT/LTE band7 M edge 2/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.378 W/kg

Flat-Section MSL LTE band7 HOT/LTE band7 M edge 2/Zoom Scan

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

Reference Value = 13.31 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 0.737 W/kg
SAR(1 g) = 0.361 W/kg; SAR(10 g) = 0.185 W/kg
Maximum value of SAR (measured) = 0.396 W/kg

0 dB = 0.396 W/kg = -4.02 dBW/kg

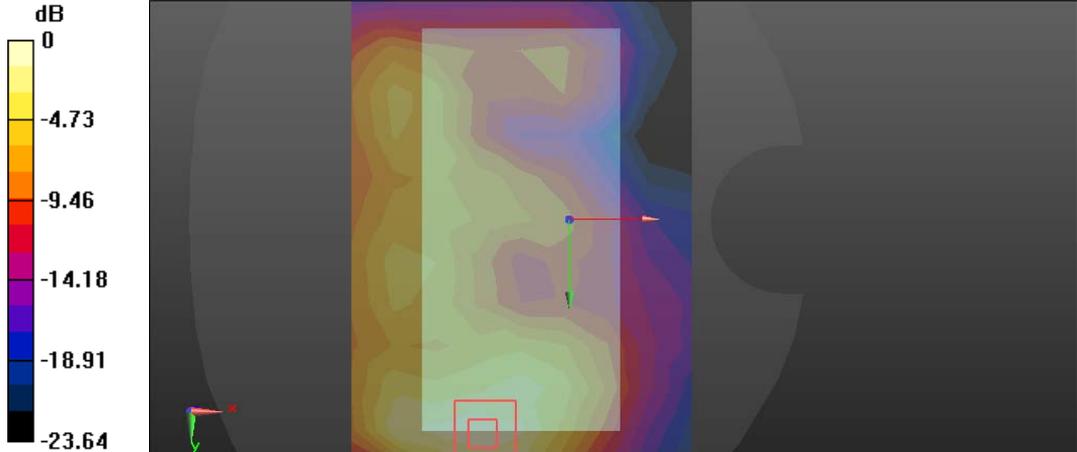| **FLAT**	**EDGE3**

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 = 2480 MHz; σ = 1.95 S/m; ε_r = 37.7; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL LTE band7 HOT/LTE band7 M edge 3/Area Scan (6x15x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.101 W/kg

Flat-Section MSL LTE band7 HOT/LTE band7 M edge 3/Zoom Scan

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

Reference Value = 5.099 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.219 W/kg
SAR(1 g) = 0.107 W/kg; SAR(10 g) = 0.055 W/kg
Maximum value of SAR (measured) = 0.118 W/kg
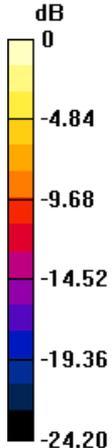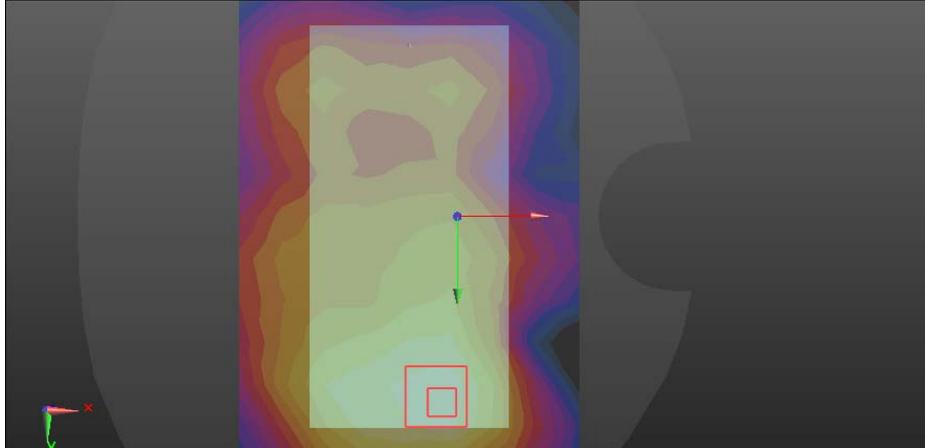

0 dB = 0.118 W/kg = -9.28 dBW/kg

FLAT	**EDGE4**

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 = 2480 MHz; σ = 1.95 S/m; ε$_r$ = 37.7; ρ = 1000 kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL LTE band7 HOT/LTE band7 M edge 4/Area Scan (6x15x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.185 W/kg

Flat-Section MSL LTE band7 HOT/LTE band7 M edge 4/Zoom Scan

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

Reference Value = 8.432 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.430 W/kg
SAR(1 g) = 0.199 W/kg; SAR(10 g) = 0.097 W/kg
Maximum value of SAR (measured) = 0.220 W/kg

0 dB = 0.220 W/kg = −6.58 dBW/kg

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

Left Side	Cheek

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 (extrapolated): f = 2535 MHz; σ = 1.869 S/m; ε$_r$ = 38.76; ρ = 1000 kg/m^3

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: Twin-SAM 1660; Type: QD 000 P40 CD; Serial: 1660
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL LTE band7/LTE band7 20MHz 50RB Low HSL touch

M/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.391 W/kg

Head-Section Left HSL LTE band7/LTE band7 20MHz 50RB Low HSL touch

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

Reference Value = 4.743 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.776 W/kg
SAR(1 g) = 0.401 W/kg; SAR(10 g) = 0.208 W/kg
Maximum value of SAR (measured) = 0.439 W/kg

0 dB = 0.439 W/kg = -3.58 dBW/kg

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 (extrapolated): f = 2535 MHz; σ = 1.869 S/m; ε $_r$ = 38.76; ρ = 1000 kg/m^3

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: Twin-SAM 1660; Type: QD 000 P40 CD; Serial: 1660
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL LTE band7/LTE band7 20MHz 50RB Low HSL tilt

M/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.102 W/kg

Head-Section Left HSL LTE band7/LTE band7 20MHz 50RB Low HSL tilt

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

Reference Value = 4.239 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.227 W/kg
SAR(1 g) = 0.108 W/kg; SAR(10 g) = 0.049 W/kg
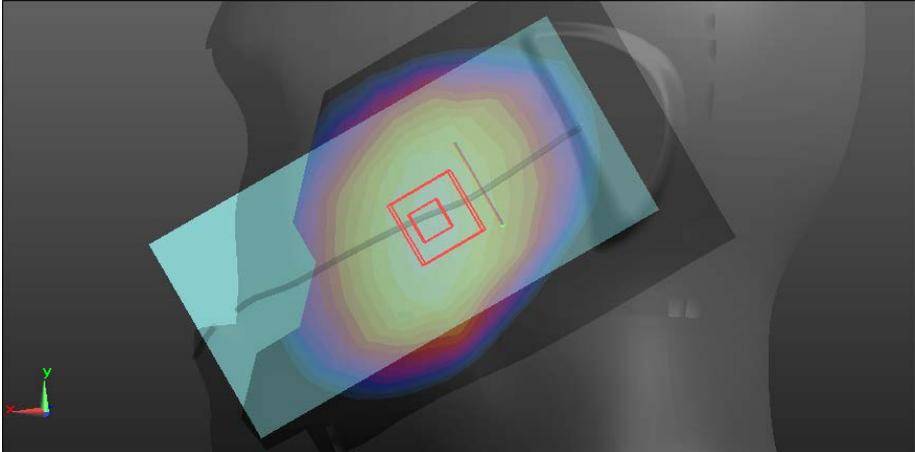Maximum value of SAR (measured) = 0.121 W/kg

0 dB = 0.121 W/kg = -9.17 dBW/kg

Right Side	Cheek

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 (extrapolated): f = 2535 MHz; σ = 1.869 S/m; ε_r = 38.76; ρ = 1000 kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: Twin-SAM 1660; Type: QD 000 P40 CD; Serial: 1660
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Right HSL LTE band7/LTE band7 20MHz 50RB Low HSL touch

M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.161 W/kg

Head-Section Right HSL LTE band7/LTE band7 20MHz 50RB Low HSL touch

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

Reference Value = 3.267 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.335 W/kg
SAR(1 g) = 0.167 W/kg; SAR(10 g) = 0.085 W/kg
Maximum value of SAR (measured) = 0.190 W/kg
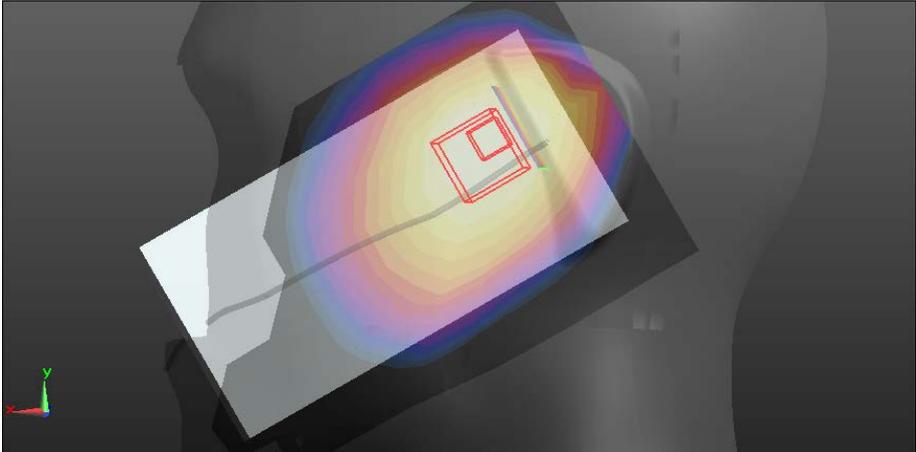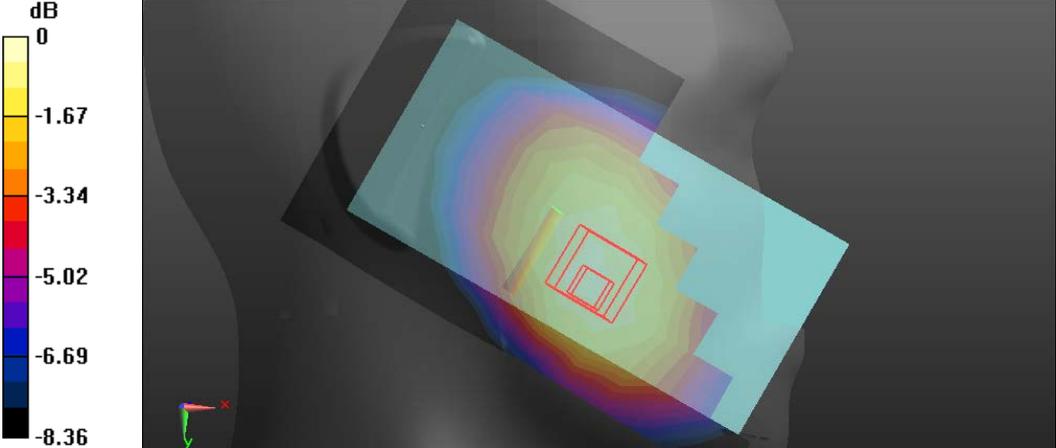

0 dB = 0.190 W/kg = -7.21 dBW/kg

Right 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 (extrapolated): f = 2535 MHz; σ = 1.869 S/m; ε$_r$ = 38.76; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: Twin-SAM 1660; Type: QD 000 P40 CD; Serial: 1660
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Right HSL LTE band7/LTE band7 20MHz 50RB Low HSL tilt

M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0865 W/kg

Head-Section Right HSL LTE band7/LTE band7 20MHz 50RB Low HSL tilt

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

Reference Value = 4.527 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.113 W/kg
SAR(1 g) = 0.058 W/kg; SAR(10 g) = 0.026 W/kg
Maximum value of SAR (measured) = 0.0645 W/kg

0 dB = 0.0645 W/kg = -11.90 dBW/kg

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

FLAT	Towards phantom

Communication System: UID 0, LTE Band 7 (0); Frequency: 2535 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2480 MHz; σ = 2.09 S/m; ε $_r$ = 50.49; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.27, 7.27, 7.27); 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)

Flat-Section MSL LTE band7 TP/LTE band7 TP M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.269 W/kg

Flat-Section MSL LTE band7 TP/LTE band7 TP M 10mm/Zoom Scan

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

Reference Value = 5.811 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.526 W/kg

SAR(1 g) = 0.264 W/kg; SAR(10 g) = 0.137 W/kg

Maximum value of SAR (measured) = 0.285 W/kg

0 dB = 0.285 W/kg = -5.45 dBW/kg

FLAT	Towards ground

Communication System: UID 0, LTE Band 7 (0); Frequency: 2535 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2480 MHz; σ = 2.09 S/m; ε_r = 50.49; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3708; ConvF(7.27, 7.27, 7.27); 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)

Flat-Section MSL LTE band7 TG 2/LTE band7 TG M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.493 W/kg

Flat-Section MSL LTE band7 TG 2/LTE band7 TG M 10mm/Zoom Scan

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

Reference Value = 6.521 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.945 W/kg
SAR(1 g) = 0.487 W/kg; SAR(10 g) = 0.256 W/kg
Maximum value of SAR (measured) = 0.531 W/kg

0 dB = 0.531 W/kg = −2.75 dBW/kg

LTE (Band 7 20BW-100RB-Low/Head)

Left Side	Cheek

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 (extrapolated): f = 2535 MHz; σ = 1.869 S/m; ε_r = 38.76; ρ = 1000 kg/m^3

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- 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 Left HSL LTE band7/LTE band7 20MHz 100RB Low HSL touch

M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.384 W/kg

Head-Section Left HSL LTE band7/LTE band7 20MHz 100RB Low HSL touch

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

Reference Value = 4.904 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.770 W/kg
SAR(1 g) = 0.401 W/kg; SAR(10 g) = 0.211 W/kg
Maximum value of SAR (measured) = 0.435 W/kg

0 dB = 0.435 W/kg = -3.62 dBW/kg

Left Side	Tilt

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 (extrapolated): f = 2535 MHz; σ = 1.869 S/m; ε $_r$ = 38.76; ρ = 1000 kg/m^3

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- 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 Left HSL LTE band7/LTE band7 20MHz 100RB Low HSL tilt

M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.210 W/kg

Head-Section Left HSL LTE band7/LTE band7 20MHz 100RB Low HSL tilt

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

Reference Value = 5.882 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.450 W/kg
SAR(1 g) = 0.209 W/kg; SAR(10 g) = 0.091 W/kg
Maximum value of SAR (measured) = 0.237 W/kg

0 dB = 0.237 W/kg = -6.25 dBW/kg

Right Side	Cheek

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 (extrapolated): f = 2535 MHz; σ = 1.869 S/m; ε_r = 38.76; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- 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 Right HSL LTE band7/LTE band7 20MHz 100RB Low HSL touch

M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.214 W/kg

Head-Section Right HSL LTE band7/LTE band7 20MHz 100RB Low HSL touch

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

Reference Value = 3.967 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.396 W/kg
SAR(1 g) = 0.193 W/kg; SAR(10 g) = 0.093 W/kg
Maximum value of SAR (measured) = 0.209 W/kg

0 dB = 0.209 W/kg = -6.80 dBW/kg

Right Side	Tilt

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 (extrapolated): f = 2535 MHz; σ = 1.869 S/m; ε_r = 38.76; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- 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 Right HSL LTE band7/LTE band7 20MHz 100RB Low HSL tilt

M/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0890 W/kg

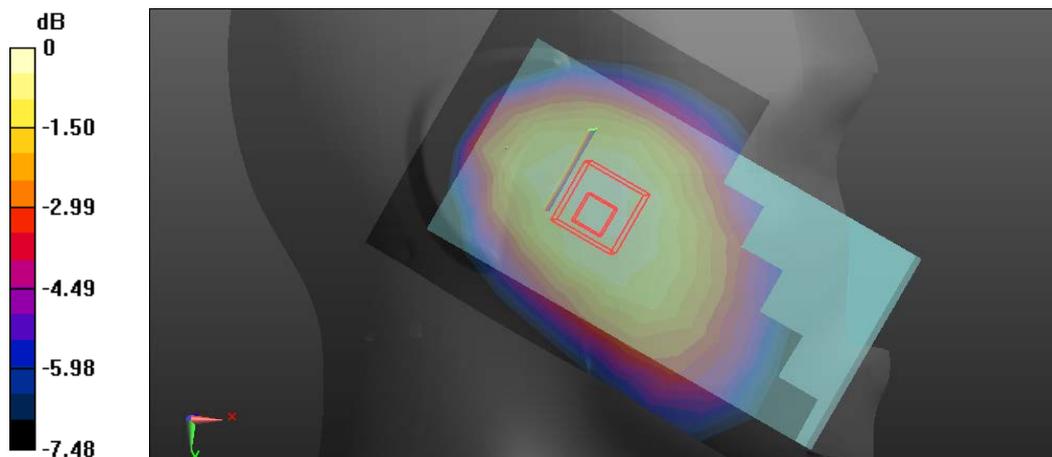### Head-Section Right HSL LTE band7/LTE band7 20MHz 100RB Low HSL tilt

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

Reference Value = 5.393 V/m; Power Drift = 0.21 dB
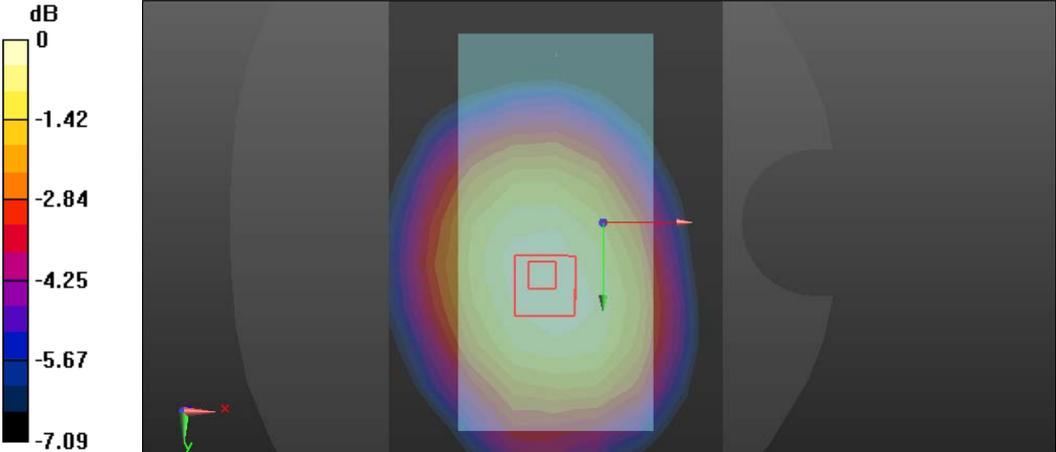Peak SAR (extrapolated) = 0.180 W/kg
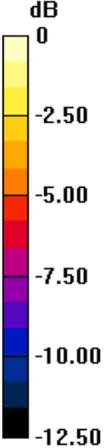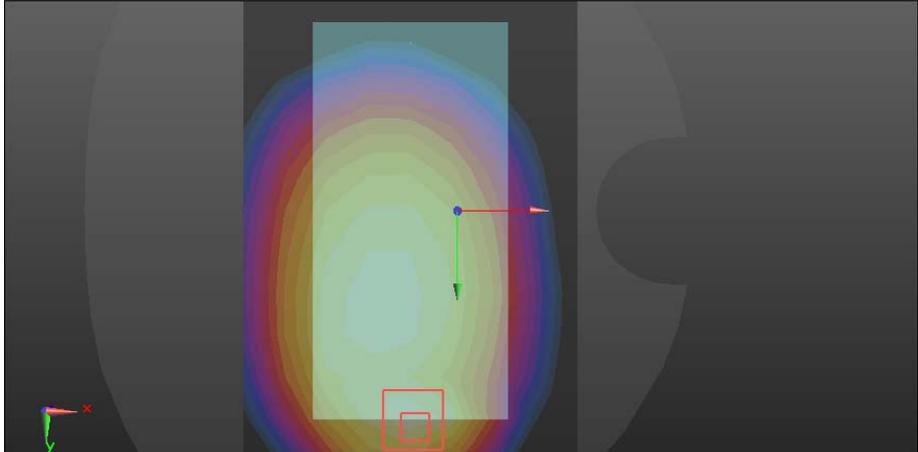**SAR(1 g) = 0.090 W/kg; SAR(10 g) = 0.044 W/kg**
Maximum value of SAR (measured) = 0.0989 W/kg

0 dB = 0.0989 W/kg = -10.05 dBW/kg

LTE (Band 7 20BW-100RB-Low/Flat)

FLAT	Towards phantom

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; σ = 2.15 S/m; ε r = 50.36; ρ = 1000 kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL LTE band7 TG/LTE band7 TP M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.301 W/kg

Flat-Section MSL LTE band7 TG/LTE band7 TP M 10mm/Zoom Scan

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

Reference Value = 5.023 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.595 W/kg
SAR(1 g) = 0.281 W/kg; SAR(10 g) = 0.140 W/kg
Maximum value of SAR (measured) = 0.307 W/kg

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

FLAT	Towards ground

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 = 2480 MHz; σ = 2.09 S/m; ε$_r$ = 50.49; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL LTE band7 TP 2/LTE band7 TG M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.507 W/kg

Flat-Section MSL LTE band7 TP 2/LTE band7 TG M 10mm/Zoom Scan

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

Reference Value = 7.581 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.13 W/kg
SAR(1 g) = 0.525 W/kg; SAR(10 g) = 0.265 W/kg
Maximum value of SAR (measured) = 0.569 W/kg

0 dB = 0.569 W/kg = -2.45 dBW/kg

Left Side	Cheek

Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.858 S/m; ε $_r$ = 42.446;

ρ = 1000 kg/m^3

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(6.55, 6.55, 6.55); 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 Left HSL LTE band12/LTE band12 1RB LOW HSL touch M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0733 W/kg

Head-Section Left HSL LTE band12/LTE band12 1RB LOW HSL touch M/Zoom

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

Reference Value = 5.475 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.0870 W/kg

SAR(1 g) = 0.074 W/kg; SAR(10 g) = 0.059 W/kg

Maximum value of SAR (measured) = 0.0773 W/kg

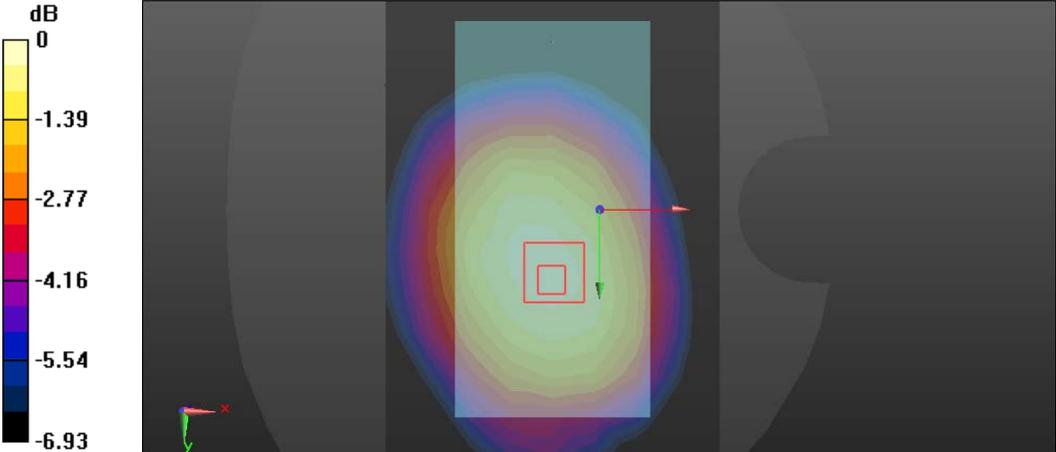0 dB = 0.0773 W/kg = -11.12 dBW/kg

Left Side	Tilt

Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.858 S/m; ε $_r$ = 42.446;
ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(6.55, 6.55, 6.55); 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 Left HSL LTE band12/LTE band12 1RB LOW HSL tilt M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0681 W/kg

Head-Section Left HSL LTE band12/LTE band12 1RB LOW HSL tilt M/Zoom

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

Reference Value = 8.341 V/m; Power Drift = –0.13 dB
Peak SAR (extrapolated) = 0.0840 W/kg
SAR(1 g) = 0.065 W/kg; SAR(10 g) = 0.052 W/kg

0 dB = 0.0681 W/kg = –11.67 dBW/kg

Right Side	Cheek

Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.858 S/m; ε $_r$ = 42.446;
ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(6.55, 6.55, 6.55); 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 band12/LTE band12 1RB LOW HSL touch M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0854 W/kg

Head-Section Right HSL LTE band12/LTE band12 1RB LOW HSL touch M/Zoom

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

Reference Value = 4.034 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.109 W/kg
SAR(1 g) = 0.089 W/kg; SAR(10 g) = 0.073 W/kg
Maximum value of SAR (measured) = 0.0929 W/kg

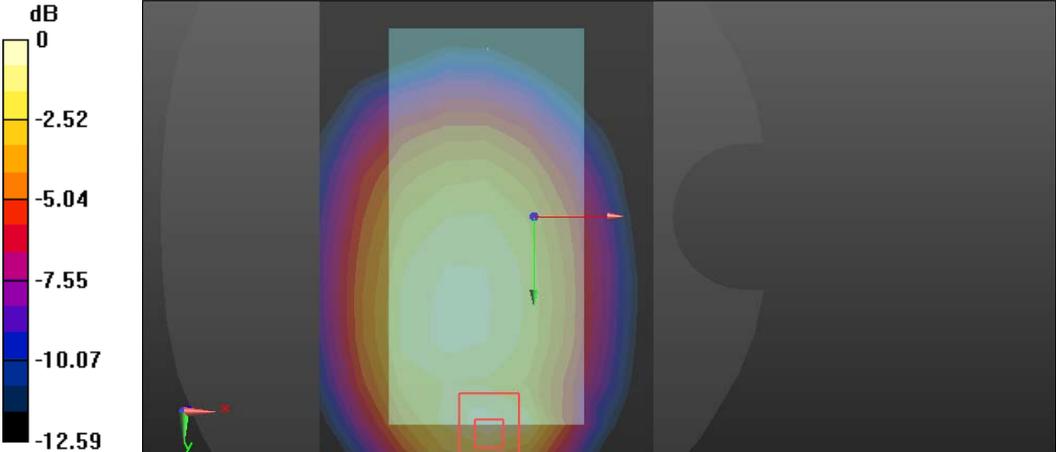0 dB = 0.0929 W/kg = -10.32 dBW/kg

Right Side	**Tilt**

Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.858 S/m; ε $_r$ = 42.446;
ρ = 1000 kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(6.55, 6.55, 6.55); 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 band12/LTE band12 1RB LOW HSL tilt M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0512 W/kg

Head-Section Right HSL LTE band12/LTE band12 1RB LOW HSL tilt M/Zoom

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

Reference Value = 7.297 V/m; Power Drift = -0.20 dB
Peak SAR (extrapolated) = 0.0630 W/kg
SAR(1 g) = 0.051 W/kg; SAR(10 g) = 0.041 W/kg
Maximum value of SAR (measured) = 0.0535 W/kg

0 dB = 0.0535 W/kg = -12.72 dBW/kg

FLAT	Towards phantom

Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.858 S/m; ε$_r$ = 42.446;

ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(6.55, 6.55, 6.55); 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)

Flat-Section MSL LTE band12 TP/LTE band12 1RB LOW TP M 10mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0335 W/kg

Flat-Section MSL LTE band12 TP/LTE band12 1RB LOW TP M 10mm/Zoom Scan

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

Reference Value = 6.043 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.0410 W/kg

SAR(1 g) = 0.032 W/kg; SAR(10 g) = 0.025 W/kg

Maximum value of SAR (measured) = 0.0343 W/kg

0 dB = 0.0343 W/kg = -14.65 dBW/kg

FLAT	Towards ground

Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.858 S/m; ε $_r$ = 42.446;

ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(6.55, 6.55, 6.55); 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)

Flat-Section MSL LTE band12 TG/LTE band12 1RB LOW TG M 10mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.101 W/kg

Flat-Section MSL LTE band12 TG/LTE band12 1RB LOW TG M 10mm/Zoom Scan

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

Reference Value = 9.189 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.164 W/kg

SAR(1 g) = 0.092 W/kg; SAR(10 g) = 0.055 W/kg

Maximum value of SAR (measured) = 0.103 W/kg
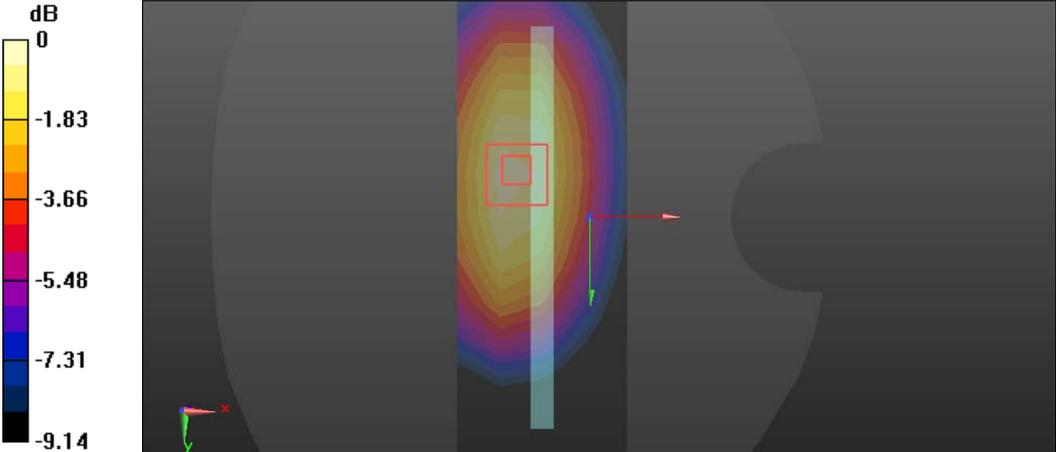

0 dB = 0.103 W/kg = -9.87 dBW/kg

LTE (Band 12 10BW-25RB-Low/Head)

Left Side	Cheek

Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.858 S/m; ε $_r$ = 42.446;
ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(6.55, 6.55, 6.55); 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 Left HSL LTE band12/LTE band12 50RB LOW HSL touch M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0731 W/kg

Head-Section Left HSL LTE band12/LTE band12 50RB LOW HSL touch M/Zoom

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

Reference Value = 2.945 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.0880 W/kg
SAR(1 g) = 0.070 W/kg; SAR(10 g) = 0.056 W/kg
Maximum value of SAR (measured) = 0.0737 W/kg

0 dB = 0.0737 W/kg = -11.33 dBW/kg

Left Side	Tilt

Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.858 S/m; ε $_r$ = 42.446;
ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(6.55, 6.55, 6.55); 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 Left HSL LTE band12/LTE band12 50RB LOW HSL tilt M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0477 W/kg

Head-Section Left HSL LTE band12/LTE band12 50RB LOW HSL tilt M/Zoom

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

Reference Value = 6.603 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.0570 W/kg
SAR(1 g) = 0.047 W/kg; SAR(10 g) = 0.038 W/kg
Maximum value of SAR (measured) = 0.0498 W/kg

0 dB = 0.0498 W/kg = -13.03 dBW/kg

Right Side	Cheek

Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.858 S/m; $ε_r$ = 42.446; ρ = 1000 kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(6.55, 6.55, 6.55); 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 band12/LTE band12 50RB LOW HSL touch M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0821 W/kg

Head-Section Right HSL LTE band12/LTE band12 50RB LOW HSL touch M/Zoom

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

Reference Value = 2.619 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.100 W/kg
SAR(1 g) = 0.082 W/kg; SAR(10 g) = 0.065 W/kg
Maximum value of SAR (measured) = 0.0866 W/kg
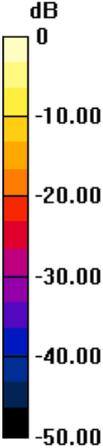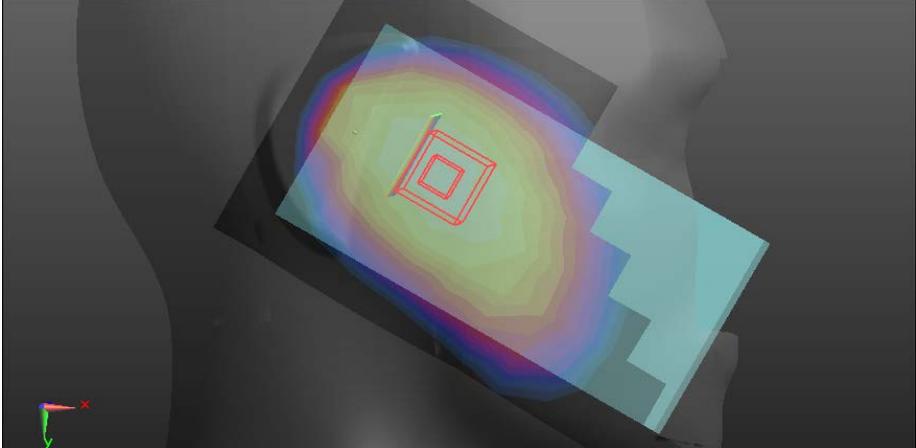
0 dB = 0.0821 W/kg = -10.86 dBW/kg

Right Side	Tilt

Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.858 S/m; ε_r = 42.446;
ρ = 1000 kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(6.55, 6.55, 6.55); 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 band12/LTE band12 50RB LOW HSL tilt M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0509 W/kg

Head-Section Right HSL LTE band12/LTE band12 50RB LOW HSL tilt M/Zoom

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

Reference Value = 6.857 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.0600 W/kg
SAR(1 g) = 0.051 W/kg; SAR(10 g) = 0.041 W/kg
Maximum value of SAR (measured) = 0.0534 W/kg

0 dB = 0.0534 W/kg = -12.72 dBW/kg

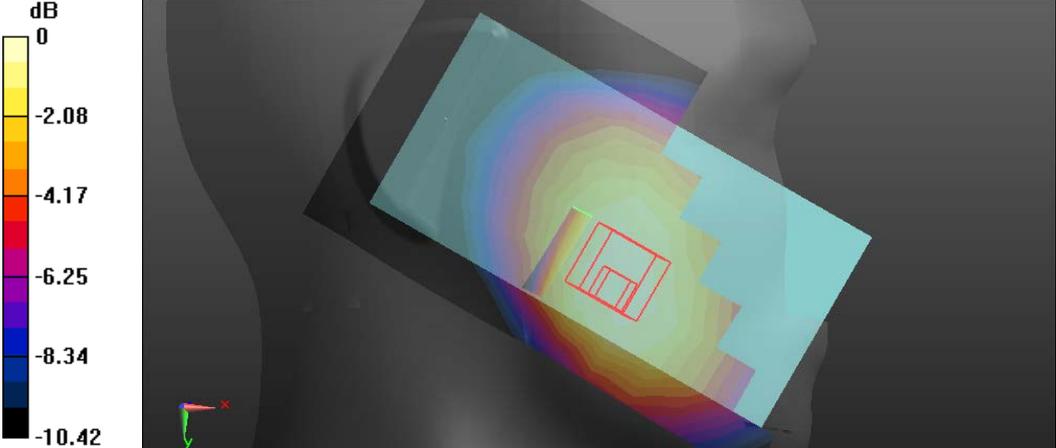| **FLAT**	**Towards phantom**

Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.858 S/m; ε $_r$ = 42.446; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(6.55, 6.55, 6.55); 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)

Flat-Section MSL LTE band12 TP/LTE band12 50RB LOW TP M 10mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0337 W/kg

Flat-Section MSL LTE band12 TP/LTE band12 50RB LOW TP M 10mm/Zoom Scan

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

Reference Value = 5.984 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.0420 W/kg
SAR(1 g) = 0.033 W/kg; SAR(10 g) = 0.025 W/kg
Maximum value of SAR (measured) = 0.0351 W/kg

0 dB = 0.0351 W/kg = -14.55 dBW/kg

FLAT	Towards ground

Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.858 S/m; ε $_r$ = 42.446;
ρ = 1000 kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(6.55, 6.55, 6.55); 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)

Flat-Section MSL LTE band12 TG/LTE band12 50RB LOW TG M 10mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.102 W/kg

Flat-Section MSL LTE band12 TG/LTE band12 50RB LOW TG M 10mm/Zoom Scan

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

Reference Value = 9.363 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 0.167 W/kg
SAR(1 g) = 0.096 W/kg; SAR(10 g) = 0.056 W/kg
Maximum value of SAR (measured) = 0.107 W/kg

0 dB = 0.107 W/kg = -9.71 dBW/kg

FLAT	**EDGE2**

Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.858 S/m; ε $_r$ = 42.446;
ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(6.55, 6.55, 6.55); 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)

Flat-Section MSL LTE band12 HOT/LTE Band12 edge2/Area Scan (5x9x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.0487 W/kg

Flat-Section MSL LTE band12 HOT/LTE Band12 edge2/Zoom Scan

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

Reference Value = 3.933 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.104 W/kg
SAR(1 g) = 0.051 W/kg; SAR(10 g) = 0.027 W/kg
Maximum value of SAR (measured) = 0.0581 W/kg

0 dB = 0.0581 W/kg = -12.36 dBW/kg

FLAT	**EDGE3**

Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.858 S/m; $ε_r$ = 42.446;
ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(6.55, 6.55, 6.55); 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)

Flat-Section MSL LTE band12 HOT/LTE Band12 edge3/Area Scan (5x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.144 W/kg

Flat-Section MSL LTE band12 HOT/LTE Band12 edge3/Zoom Scan

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

Reference Value = 13.11 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.197 W/kg
SAR(1 g) = 0.139 W/kg; SAR(10 g) = 0.096 W/kg
Maximum value of SAR (measured) = 0.149 W/kg

0 dB = 0.149 W/kg = -8.27 dBW/kg

FLAT	**EDGE4**

Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.858 S/m; ε $_r$ = 42.446;
ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(6.55, 6.55, 6.55); 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)

Flat-Section MSL LTE band12 HOT/LTE Band12 edge4/Area Scan (5x13x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.0860 W/kg

Flat-Section MSL LTE band12 HOT/LTE Band12 edge4/Zoom Scan

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

Reference Value = 9.261 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.120 W/kg
SAR(1 g) = 0.086 W/kg; SAR(10 g) = 0.059 W/kg
Maximum value of SAR (measured) = 0.0921 W/kg

0 dB = 0.0921 W/kg = -10.36 dBW/kg

LTE (Band 13 10BW-1RB-Low/Head)

Left Side	Cheek

Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 782 MHz; σ = 0.926 S/m; ε $_r$ = 41.412; ρ = 1000 kg/m^3

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(6.55, 6.55, 6.55); 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 Left HSL LTE band13/LTE band13 1RB LOW HSL touch M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

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

Head-Section Left HSL LTE band13/LTE band13 1RB LOW HSL touch M/Zoom

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

Reference Value = 3.095 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.150 W/kg
SAR(1 g) = 0.121 W/kg; SAR(10 g) = 0.094 W/kg
Maximum value of SAR (measured) = 0.128 W/kg

0 dB = 0.128 W/kg = -8.93 dBW/kg

Left Side	Tilt

Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 782 MHz; σ = 0.926 S/m; ε $_r$ = 41.412; ρ
= 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(6.55, 6.55, 6.55); 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 Left HSL LTE band13/LTE band13 1RB LOW HSL tilt M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0654 W/kg

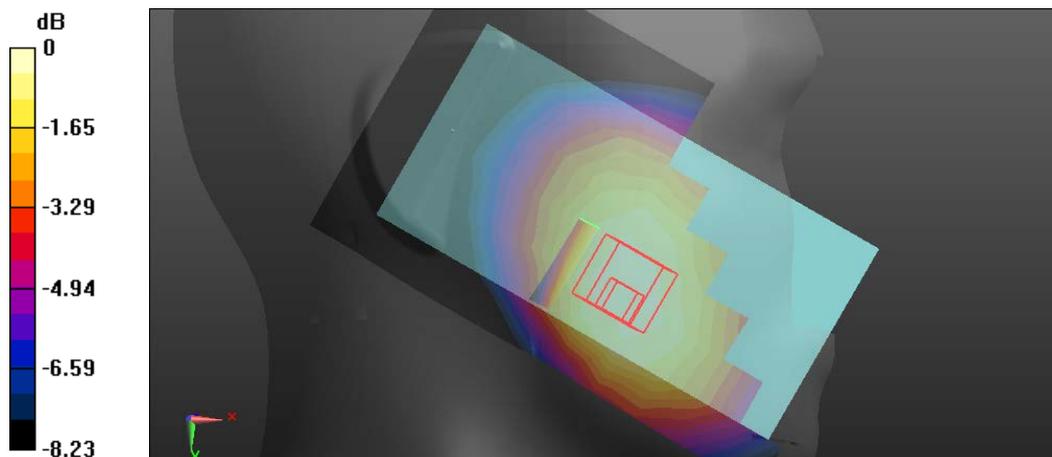### Head-Section Left HSL LTE band13/LTE band13 1RB LOW HSL tilt M/Zoom

Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
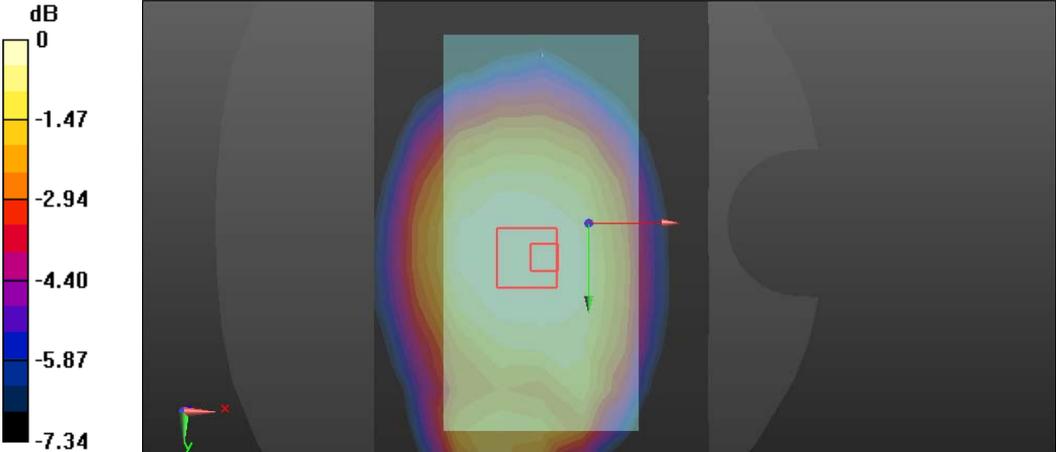
Reference Value = 5.205 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.0750 W/kg
SAR(1 g) = 0.063 W/kg; SAR(10 g) = 0.051 W/kg
Maximum value of SAR (measured) = 0.0650 W/kg

0 dB = 0.0650 W/kg = -11.87 dBW/kg

Right Side	Cheek

Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 782 MHz; σ = 0.926 S/m; ε$_r$ = 41.412; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(6.55, 6.55, 6.55); 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 band13/LTE band13 1RB LOW HSL touch M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

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

Head-Section Right HSL LTE band13/LTE band13 1RB LOW HSL touch M/Zoom

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

Reference Value = 3.404 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.204 W/kg
SAR(1 g) = 0.158 W/kg; SAR(10 g) = 0.124 W/kg
Maximum value of SAR (measured) = 0.168 W/kg

0 dB = 0.168 W/kg = -7.75 dBW/kg

Right Side	**Tilt**

Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 782 MHz; σ = 0.926 S/m; ε_r = 41.412; ρ = 1000 kg/m^3

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(6.55, 6.55, 6.55); 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 band13/LTE band13 1RB LOW HSL tilt M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0724 W/kg

Head-Section Right HSL LTE band13/LTE band13 1RB LOW HSL tilt M/Zoom

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

Reference Value = 4.888 V/m; Power Drift = 0.21 dB

Peak SAR (extrapolated) = 0.0840 W/kg

SAR(1 g) = 0.070 W/kg; SAR(10 g) = 0.057 W/kg

Maximum value of SAR (measured) = 0.0741 W/kg

LTE (Band 13 10BW-1RB-Low/Flat)

FLAT	Towards phantom

Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 782 MHz; σ = 0.926 S/m; ε $_r$ = 41.412; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(6.55, 6.55, 6.55); 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)

Flat-Section MSL LTE band13 TP/LTE band13 1RB LOW TP M 10mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0594 W/kg

Flat-Section MSL LTE band13 TP/LTE band13 1RB LOW TP M 10mm/Zoom Scan

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

Reference Value = 7.986 V/m; Power Drift = -0.21 dB

Peak SAR (extrapolated) = 0.0680 W/kg

SAR(1 g) = 0.055 W/kg; SAR(10 g) = 0.043 W/kg

Maximum value of SAR (measured) = 0.0582 W/kg

0 dB = 0.0582 W/kg = -12.35 dBW/kg

FLAT	Towards ground

Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 782 MHz; σ = 0.926 S/m; ε $_r$ = 41.412; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(6.55, 6.55, 6.55); 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)

Flat-Section MSL LTE band13 TG/LTE band13 1RB LOW TG M 10mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0856 W/kg

Flat-Section MSL LTE band13 TG/LTE band13 1RB LOW TG M 10mm/Zoom Scan

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

Reference Value = 8.967 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.108 W/kg

SAR(1 g) = 0.082 W/kg; SAR(10 g) = 0.063 W/kg

Maximum value of SAR (measured) = 0.0877 W/kg

0 dB = 0.0877 W/kg = -10.57 dBW/kg

Left Side	Cheek

Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 782 MHz; σ = 0.926 S/m; ε $_r$ = 41.412; ρ = 1000 kg/m^3

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(6.55, 6.55, 6.55); 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 Left HSL LTE band13/LTE band13 25RB LOW HSL touch M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.106 W/kg

Head-Section Left HSL LTE band13/LTE band13 25RB LOW HSL touch M/Zoom

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

Reference Value = 2.119 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.128 W/kg
SAR(1 g) = 0.103 W/kg; SAR(10 g) = 0.081 W/kg
Maximum value of SAR (measured) = 0.108 W/kg

0 dB = 0.108 W/kg = -9.67 dBW/kg

Left Side	Tilt

Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 782 MHz; σ = 0.926 S/m; ε $_r$ = 41.412; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(6.55, 6.55, 6.55); 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 Left HSL LTE band13/LTE band13 25RB LOW HSL tilt M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0527 W/kg

Head-Section Left HSL LTE band13/LTE band13 25RB LOW HSL tilt M/Zoom

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

Reference Value = 3.834 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.0600 W/kg
SAR(1 g) = 0.052 W/kg; SAR(10 g) = 0.042 W/kg
Maximum value of SAR (measured) = 0.0541 W/kg

0 dB = 0.0541 W/kg = –12.67 dBW/kg

Right Side	Cheek

Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 782 MHz; σ = 0.926 S/m; ε_r = 41.412; ρ = 1000 kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(6.55, 6.55, 6.55); 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 band13/LTE band13 25RB LOW HSL touch M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.134 W/kg

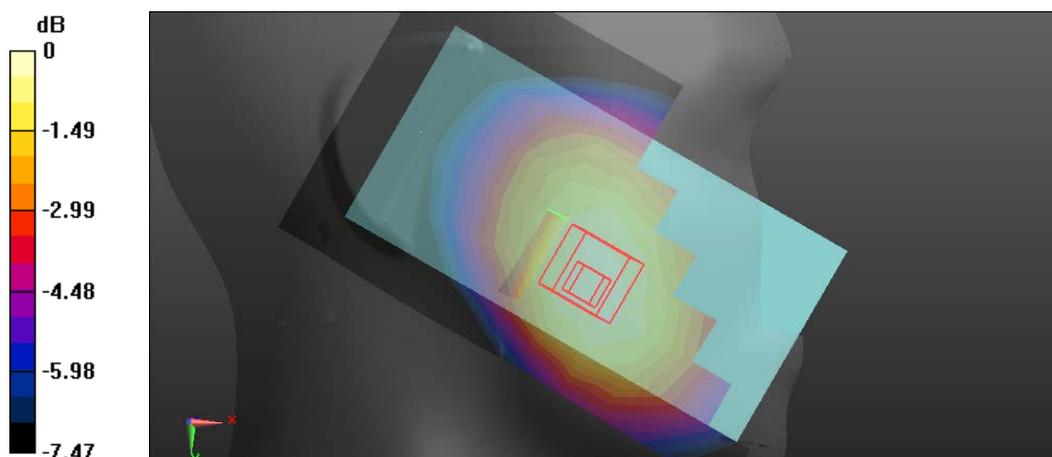### Head-Section Right HSL LTE band13/LTE band13 25RB LOW HSL touch M/Zoom

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

Reference Value = 3.142 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.168 W/kg
SAR(1 g) = 0.135 W/kg; SAR(10 g) = 0.106 W/kg
Maximum value of SAR (measured) = 0.141 W/kg

0 dB = 0.141 W/kg = -8.51 dBW/kg

Right Side	**Tilt**

Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 782 MHz; σ = 0.926 S/m; ε_r = 41.412; ρ = 1000 kg/m^3

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(6.55, 6.55, 6.55); 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 band13/LTE band13 25RB LOW HSL tilt M/Area

Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0707 W/kg

Head-Section Right HSL LTE band13/LTE band13 25RB LOW HSL tilt M/Zoom

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

Reference Value = 4.997 V/m; Power Drift = 0.21 dB
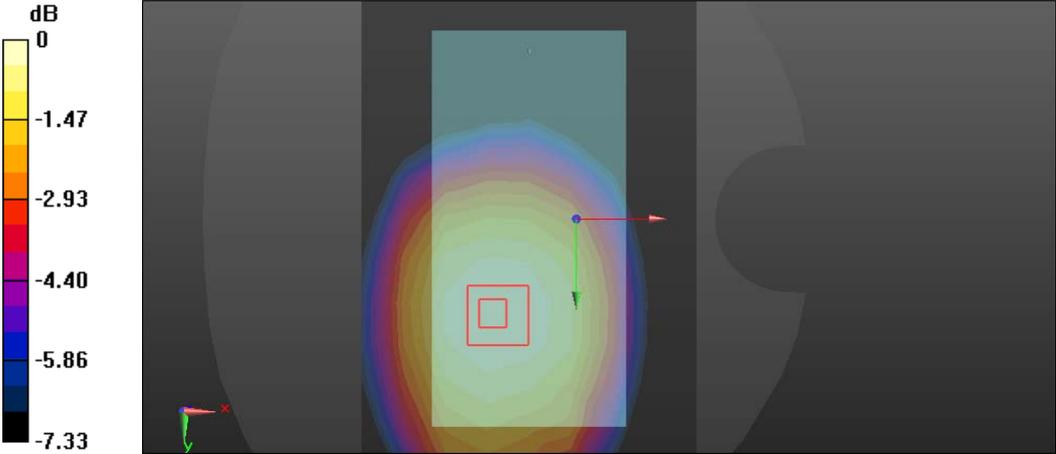
Peak SAR (extrapolated) = 0.0810 W/kg
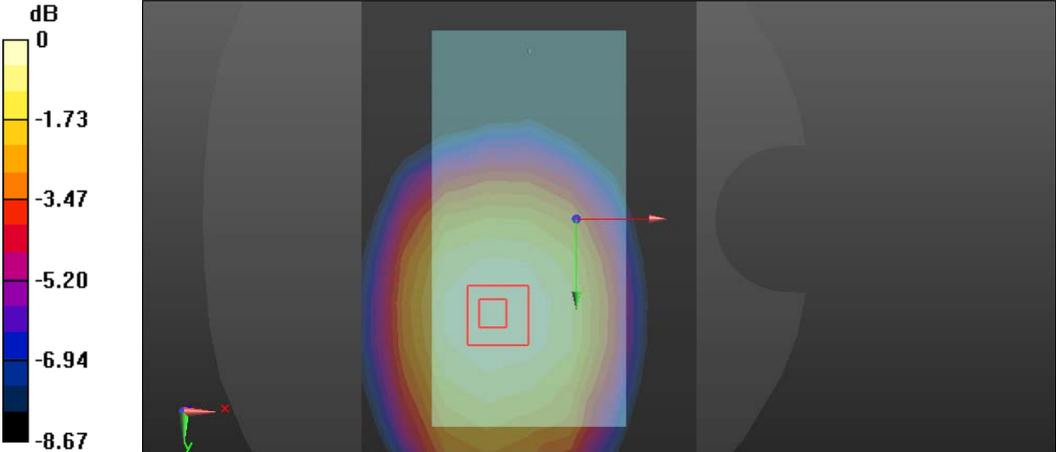
SAR(1 g) = 0.068 W/kg; SAR(10 g) = 0.055 W/kg
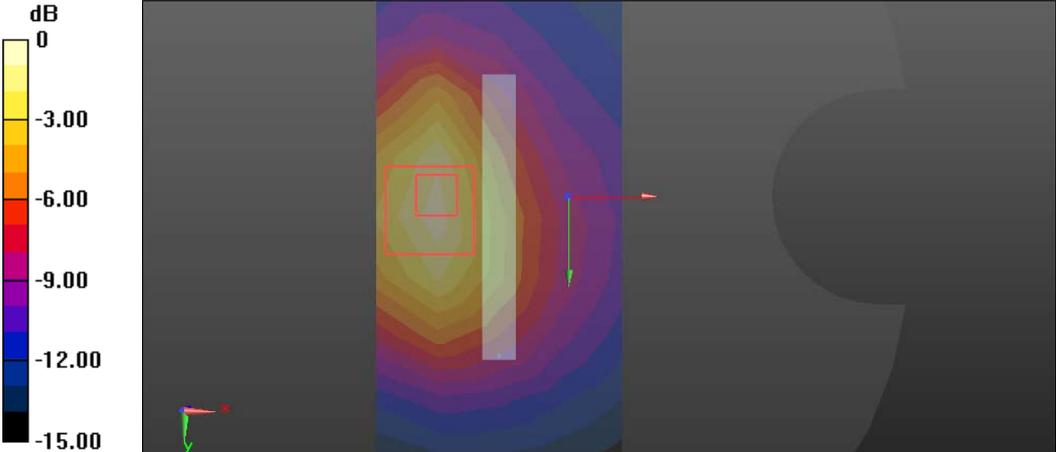
Maximum value of SAR (measured) = 0.0714 W/kg

0 dB = 0.0714 W/kg = -11.46 dBW/kg

LTE (Band 13 10BW-25RB-Low/Flat)

FLAT	Towards phantom

Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 782 MHz; σ = 0.926 S/m; ε$_r$ = 41.412; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 – SN3127; ConvF(6.55, 6.55, 6.55); 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)

Flat-Section MSL LTE band13 TP/LTE band13 25RB LOW TP M 10mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

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

Flat-Section MSL LTE band13 TP/LTE band13 25RB LOW TP M 10mm/Zoom Scan

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

Reference Value = 10.44 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.161 W/kg

SAR(1 g) = 0.133 W/kg; SAR(10 g) = 0.104 W/kg

Maximum value of SAR (measured) = 0.138 W/kg

0 dB = 0.138 W/kg = −8.60 dBW/kg

FLAT	Towards ground

Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 782 MHz; σ = 0.926 S/m; ε$_r$ = 41.412; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(6.55, 6.55, 6.55); 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)

Flat-Section MSL LTE band13 TG/LTE band13 25RB LOW TG M 10mm/Area Scan

(9x13x1): Measurement grid: dx=15mm, dy=15mm

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

Flat-Section MSL LTE band13 TG/LTE band13 25RB LOW TG M 10mm/Zoom Scan

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

Reference Value = 12.28 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.247 W/kg
SAR(1 g) = 0.203 W/kg; SAR(10 g) = 0.158 W/kg
Maximum value of SAR (measured) = 0.212 W/kg

0 dB = 0.212 W/kg = -6.73 dBW/kg

FLAT	EDGE2

Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 782 MHz; σ = 0.926 S/m; ε$_r$ = 41.412; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(6.55, 6.55, 6.55); 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)

Flat-Section MSL LTE band13 HOT/LTE Band13 edge2/Area Scan (5x9x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.0869 W/kg

Flat-Section MSL LTE band13 HOT/LTE Band13 edge2/Zoom Scan

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

Reference Value = 5.974 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.163 W/kg
SAR(1 g) = 0.085 W/kg; SAR(10 g) = 0.047 W/kg
Maximum value of SAR (measured) = 0.0938 W/kg

0 dB = 0.0938 W/kg = -10.28 dBW/kg