

# TEST REPORT

**Applicant:** Xiaomi Communications Co., Ltd.  
**Address:** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road,  
Haidian District, Beijing, China, 100085  
**Equipment Type:** Mobile Phone  
**Model Name:** 22071219CG  
**Brand Name:** POCO  
**FCC ID:** 2AFZZ19CG  
**Test Standard:** FCC 47 CFR Part 2.1093  
(refer section 3.1)  
**Maximum SAR:** Head (1 g): 1.04 W/kg  
Body-worn (1 g): 0.83 W/kg  
Hotspot (1 g): 0.83 W/kg  
Specific (10 g): 1.77 W/kg  
**Test Date:** Jun. 14, 2021 - Jul. 03, 2022  
**Date of Issue:** Jul. 11, 2022

**ISSUED BY:**

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Xu Rui**Checked by:** Zong Liyao**Approved by:** Wei Yanquan  
(Chief Engineer)

### Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Jul. 11, 2022</u>	<u>Initial Issue</u>

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# 1 GENERAL INFORMATION

## 1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe West Road, Nanshan District, ShenZhen, GuangDong Province, China
Phone Number	+86 755 6685 0100

## 1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe West Road, Nanshan District, ShenZhen, GuangDong Province, China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.
Description	All measurement facilities used to collect the measurement data are located at Block B, 1/F, Baisha Science and Technology Park, Shahe West Road, Nanshan District, ShenZhen, GuangDong Province, China

## 1.3 Test Environment Condition

Ambient Temperature	20.5°C to 24°C
Ambient Relative Humidity	45% to 58%
Ambient Pressure	100 KPa to 102 KPa

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

Applicant	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

### 2.2 Manufacturer Information

Manufacturer	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

### 2.3 Factory Information

Factory	N/A
Address	N/A

### 2.4 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	22071219CG
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	P1.1
Software Version	MIUI 13
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A
EUT ID	S33; S34; S40
IMEI Number	S33: IMEI1#: 867655060071001 IMEI2#: 867655060071019 S34: IMEI1#: 867655060071126 IMEI2#: 867655060071134 S40: IMEI1#: 867655060071027 IMEI2#: 867655060071035
Note1: EUT ID is used to identify the test sample in the lab internally.	
Note2: It is performed to test SAR with the EUT S33&34 and conducted power with the EUT S40.	

### 2.5 Ancillary Equipment

Please refer the document "BL-SZ2260422-AW EUT external photo.pdf".

## 2.6 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/900/1800/1900 MHz 3G Network WCDMA/HSDPA/HSUPA/DC-HSDPA Band 1/2/4/5/8 4G Network LTE FDD Band 1/2/3/4/5/7/8/20/28 LTE TDD Band 38/40/41 LTE CA Uplink (UL): CA_3C, CA_7C, CA_38C, CA_40C, CA_41C Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20) 5G WIFI 802.11a, 802.11n(HT20/40) and 802.11ac(VHT20/40/80) U-NII-1/2A/2C/3, GPS, GLONASS, Galileo, BDS, FM receiver, NFC
<b>Note:</b> The EUT is a mobile phone, which supports dual SIM card under the same transceiver. Each SIM supports GSM, WCDMA and LTE, and both SIM share the same transmitting electro circuit, NV parameters, so only SIM1 was tested in this report.	

The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	GSM, WCDMA, LTE, 2.4G WLAN, 5G WLAN, Bluetooth		
Frequency Range	GSM 850	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	GSM 1900	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	WCDMA Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz
	LTE Band 38	TX: 2570 ~ 2620 MHz	RX: 2570 ~ 2620 MHz
	LTE Band 41	TX: 2496 ~ 2690 MHz	RX: 2496 ~ 2690 MHz
	802.11b/g/n(HT20)	2412 ~ 2462 MHz	
	802.11a/n(HT20/HT40)	5150 ~ 5250 MHz	
/ac(VHT20/VHT40)	5250 ~ 5350 MHz		
/VHT80)	5470 ~ 5725 MHz		
Bluetooth	5725 ~ 5850 MHz		
Bluetooth	2402 ~ 2480 MHz		
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna		
DTM	N/A		
Hotspot Function	Support		
Power Reduction	Support		
Exposure	General Population/Uncontrolled exposure		

Category		
EUT Stage	Portable Device	
Product	Type	
	<input checked="" type="checkbox"/> Production unit	<input type="checkbox"/> Identical prototype
<p>Note:</p> <ol style="list-style-type: none"> <li>1. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4G transmitter for held-to-ear exposure conditions.</li> <li>2. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4G transmitter for near to body exposure conditions.</li> <li>3. The reduction power details please refer section 8.7.</li> </ol>		



### 3 SUMMARY OF TEST RESULT

#### 3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	ANSI C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D01 v06	Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies
5	FCC KDB 941225 D01 v03r01	3G SAR MEAUREMENT PROCEDURES
6	FCC KDB 941225 D05 v02r05	SAR Evaluation Considerations for LTE Devices
7	FCC KDB 941225 D06 v02r01	SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities
8	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
9	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
10	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
11	KDB 248227 D01 v02r02	SAR Guidance for IEEE 802.11 (Wi-Fi) Transmitters

### 3.2 Device Category and SAR Limit

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user.

Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

Table of Exposure Limits:

Body Position	SAR Value (W/Kg)	
	General Population/ Uncontrolled Exposure	Occupational/ Controlled Exposure
Whole-Body SAR (averaged over the entire body)	0.08	0.4
Partial-Body SAR (averaged over any 1 gram of tissue)	1.60	8.0
SAR for hands, wrists, feet and ankles (averaged over any 10 grams of tissue)	4.0	20.0

**NOTE:**

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

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

### 3.3 Test Result Summary

#### 3.3.1 Highest SAR (1 g Value)

Band	Maximum Scaled SAR (W/kg)			Maximum Report SAR (W/kg)		
	Head	Body-worn Accessory	Hotspot	Head	Body-worn Accessory	Hotspot
GSM 850	0.46	0.54	0.54	1.04	0.83	0.83
GSM 1900	0.38	0.36	0.36			
WCDMA Band 2	0.34	0.50	0.50			
WCDMA Band 4	0.64	0.58	0.58			
WCDMA Band 5	0.38	0.44	0.44			
LTE Band 2	0.42	0.50	0.50			
LTE Band 4	0.47	0.57	0.57			
LTE Band 5	0.43	0.39	0.39			
LTE Band 7	0.41	0.57	0.57			
LTE Band 38	0.29	0.61	0.61			
LTE Band 41	0.56	0.62	0.62			
CA_7C	0.41	0.56	0.56			
CA_38C	0.24	0.57	0.57			
CA_41C	0.53	0.56	0.56			
2.4G WLAN	0.92	0.25	0.25			
5.2G WLAN	/	<b>0.83</b>	<b>0.83</b>			
5.3G WLAN	<b>1.04</b>	/	/			
5.6G WLAN	0.67	/	/			
5.8G WLAN	0.29	0.30	0.30			
Bluetooth	0.12	0.03	0.03			
Limit (W/kg)	1.6			1.6		
Verdict	PASS					

### 3.3.2 Highest Specific SAR (10 g Value)

Band	Maximum Scaled SAR (W/kg)	Maximum Report SAR (W/kg)	
	Specific 10g		
WCDMA Band 2	1.05	<b>1.77</b>	
WCDMA Band 4	0.99		
LTE Band 2	1.02		
LTE Band 4	0.88		
LTE Band 7	1.50		
CA_7C	1.49		
LTE Band 38	1.48		
CA_38C	1.33		
LTE Band 41	1.56		
CA_41C	1.52		
5.3G WLAN	<b>1.77</b>		
5.6G WLAN	1.13		
Limit (W/kg)	4.0		4.0
Verdict	Pass		

### 3.3.3 Highest Simultaneous SAR

Note: The highest simultaneous SAR please refer section 12.

### 3.4 Test Uncertainty

According to KDB 865664 D01, When the highest measured 1 g SAR within a frequency band is  $< 1.5$  W/kg, the extensive SAR measurement uncertainty analysis is not required in SAR reports submitted for equipment approval.

The maximum 1 g SAR for the EUT in this report is 1.037 W/kg, which is lower than 1.5 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

The maximum 10 g SAR for the EUT in this report is 1.767 W/kg, which is lower than 3.75 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

## 4 MEASUREMENT SYSTEM

### 4.1 Specific Absorption Rate (SAR) Definition

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

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

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

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

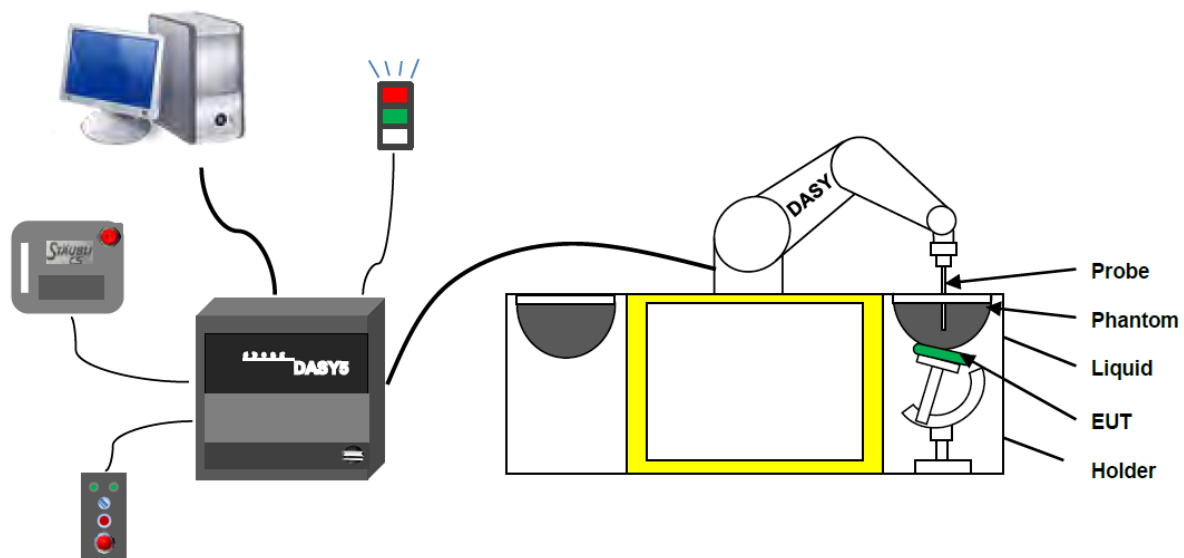
$$\mathbf{SAR} = \frac{\sigma E^2}{\rho}$$

Where:  $\sigma$  is the conductivity of the tissue,

$\rho$  is the mass density of the tissue and  $E$  is the RMS electrical field strength.

## 4.2 DASY SAR System

### 4.2.1 DASY SAR System Diagram



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

1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
4. A unit to operate the optical surface detector which is connected to the EOC.
5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASYS measurement server.
6. The DASYS measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
7. DASYS software and SEMCAD data evaluation software.
8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
10. The device holder for handheld mobile phones.
11. Tissue simulating liquid mixed according to the given recipes.
12. System validation dipoles allowing to validate the proper functioning of the system.

#### 4.2.2 Robot

The Dasy SAR system uses the high precision robots. Symmetrical design with triangular core Built-in optical fiber for surface detection system For the 6-axis controller system, Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents). The robot series have many features that are important for our application:



- High precision  
(repeatability  $\pm 0.02$  mm)
- High reliability  
(industrial design)
- Low maintenance costs  
(virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements  
(brush less synchron motors; no stepper motors)
- Low ELF interference  
(motor control \_elds shielded via the closed metallic construction shields)



### 4.2.3 E-Field Probe

The probe is specially designed and calibrated for use in liquids with high permittivities for the measurements the Specific Dosimetric E-Field Probe EX3DV4-SN:7510 with following specifications is used.

Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to 6 GHz; Linearity: $\pm 0.2$ dB (30 MHz to 6 GHz)
Directivity	$\pm 0.2$ dB in HSL (rotation around probe axis) ; $\pm 0.4$ dB in HSL (rotation normal to probe axis)
Dynamic range	5 $\mu$ W/g to > 100 mW/g; Linearity: $\pm 0.2$ dB
Dimensions	Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 10 mm) Distance from probe tip to dipole centers: 1.0 mm
Application	General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms (EX3DV4)



#### E-Field Probe Calibration Process

Probe calibration is realized, in compliance with CENELEC EN 62209-1/-2 and IEEE 1528 std, with CALISAR, Antennassa proprietary calibration system. The calibration is performed with the EN 62209-1/2 annexe technique using reference guide at the five frequencies.

#### 4.2.4 Data Acquisition Electronics

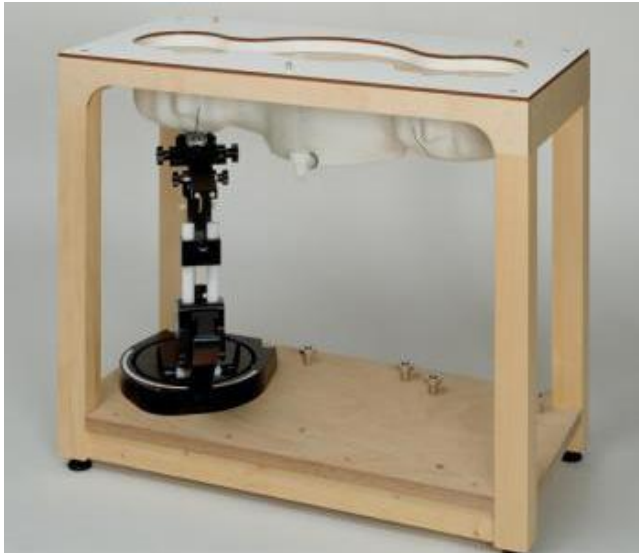
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.



- Input Impedance: 200M $\Omega$ m
- The Inputs: Symmetrical and Floating
- Common Mode Rejection: Above 80dB

#### 4.2.5 Phantoms

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.



- Left hand
- Right hand
- Flat phantom

**Photo of Phantom SN1857**



Serial Number	Material	Length	Height
SN 1857 SAM1	Vinylester, glass fiber reinforced	1000	500

#### 4.2.6 Device Holder

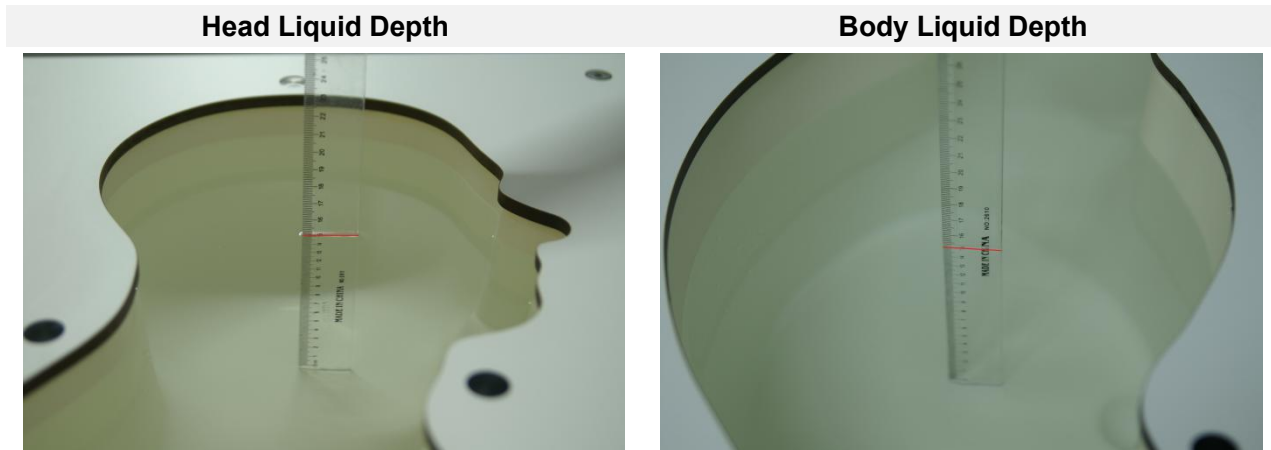
The DASY5 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65°. The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. This device holder is used for standard mobile phones or PDA"s only. If necessary an additional support of polystyrene material is used. Larger DUT"s (e.g. notebooks) cannot be tested using this device holder. Instead a support of bigger polystyrene cubes and thin polystyrene plates is used to position the DUT in all relevant positions to find and measure spots with maximum SAR values. Therefore those devices are normally only tested at the flat part of the SAM.



The positioning system allows obtaining cheek and tilting position with a very good accuracy. Incompliance with CENELEC, the tilt angle uncertainty is lower than  $1^\circ$ .

#### 4.2.7 Simulating Liquid

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5%.



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

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

		(%)	(%)	$\sigma$ (S/m)	$\epsilon$
5200	78.60	21.40	/	5.54	47.86
5800	78.50	21.40	0.1	6.0	48.20

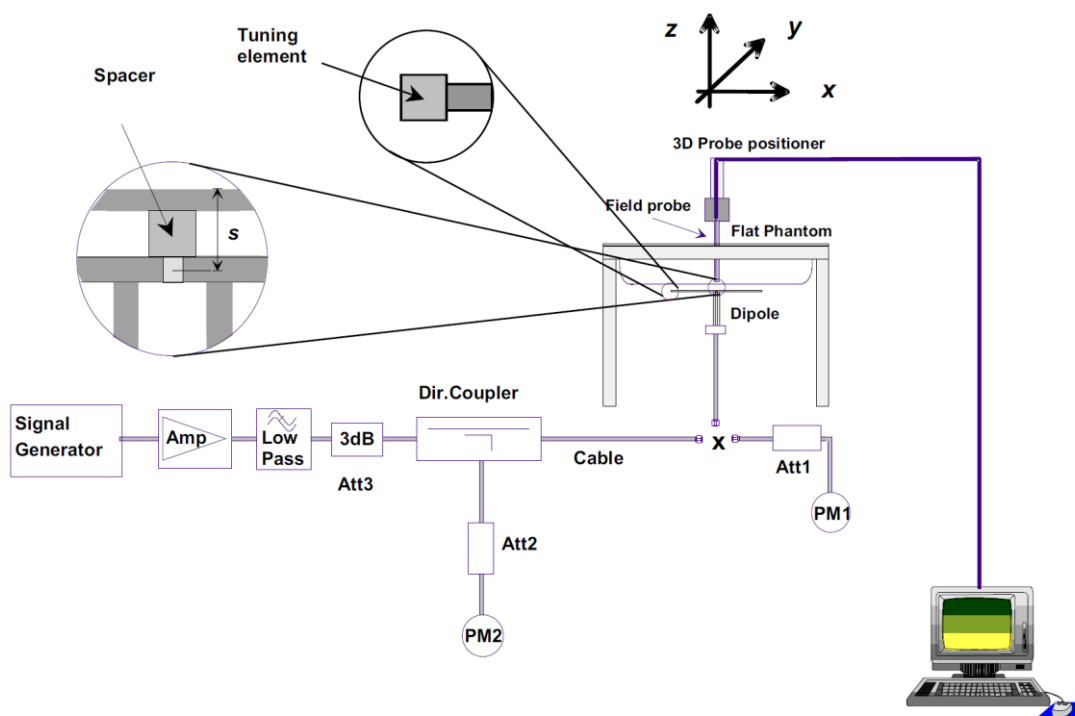
## 5 SYSTEM VERIFICATION

### 5.1 Purpose of System Check

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

### 5.2 System Check Setup

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



## 6 TEST POSITION CONFIGURATIONS

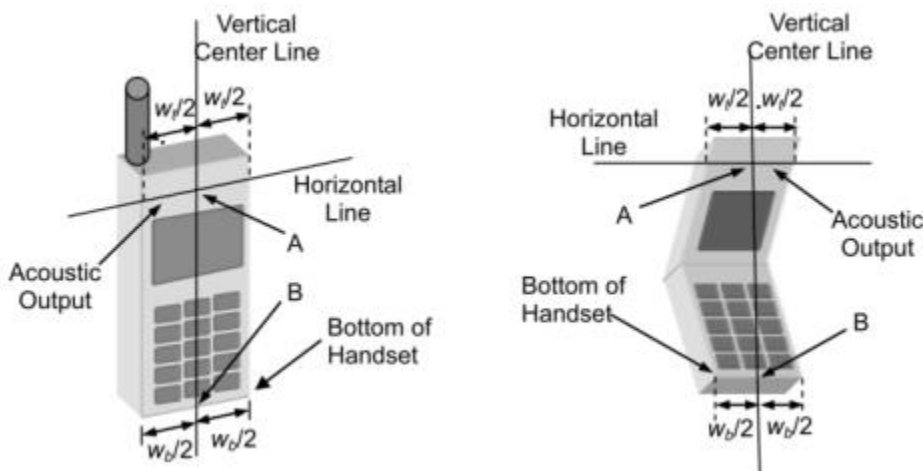
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

### 6.1 Head Exposure Conditions

Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2013 using the SAM phantom illustrated as below.

#### 6.1.1 Two Imaginary Lines on the Handset

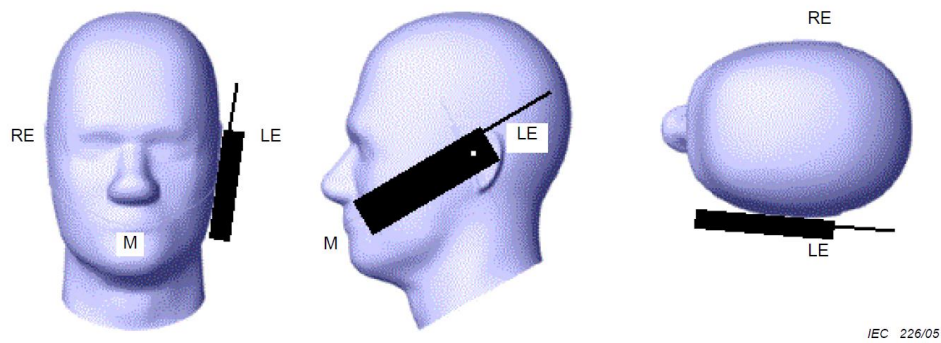
- The vertical center line passes through two points on the front side of the handset - the midpoint of the width  $w_t$  of the handset at the level of the acoustic output, and the midpoint of the width  $w_b$  of the bottom of the handset.
- The horizontal line is perpendicular to the vertical centerline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



#### 6.1.2 Cheek Position

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





### 6.1.3 Tilted Position

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

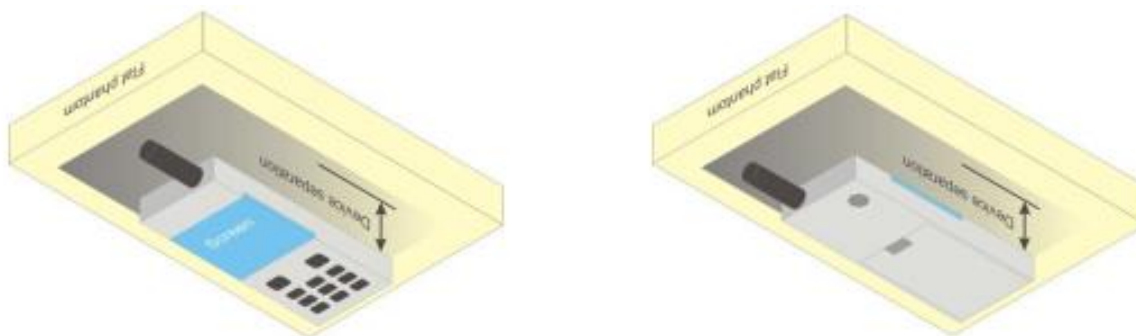


## 6.2 Body-worn Position Conditions

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB 447498 are used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode. When the reported SAR for a body-worn accessory.

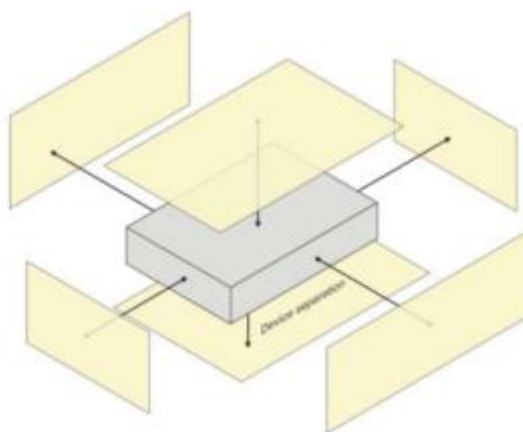
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics. All body-worn accessories containing metallic components are tested in conjunction with the host device.

Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice only operations in its normal and expected use conditions, testing of data mode for body-worn compliance is not required. A conservative minimum test separation distance for supporting off-the-shelf body-worn accessories that may be acquired by users of consumer handsets is used to test for body-worn accessory SAR compliance. This distance is determined by the handset manufacturer, according to the requirements of Supplement C 01-01. Devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, will be tested using a conservative minimum test separation distance  $\leq 5$  mm to support compliance.



### 6.3 Hotspot Mode Exposure Position Conditions

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



### 6.4 Product Specific 10g Exposure Consideration

According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance;

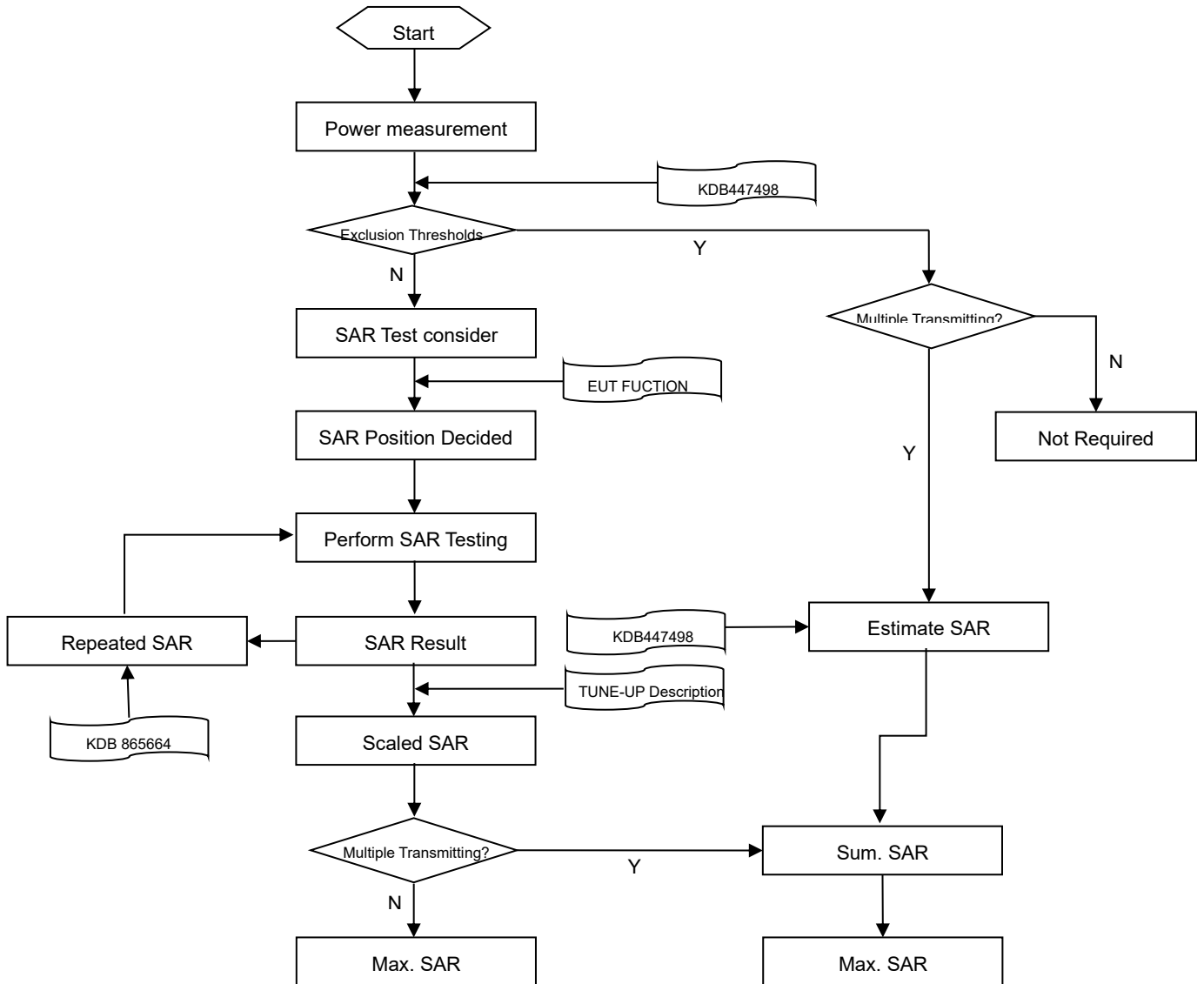
The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at  $\leq 25$  mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

6

6.

## 7 MEASUREMENT PROCEDURE

### 7.1 Measurement Process Diagram



## 7.2 SAR Scan General Requirement

Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1 g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2013.

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

### Note:

1.  $\delta$  is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
2. \* When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

### 7.3 Measurement Procedure

The following steps are used for each test position

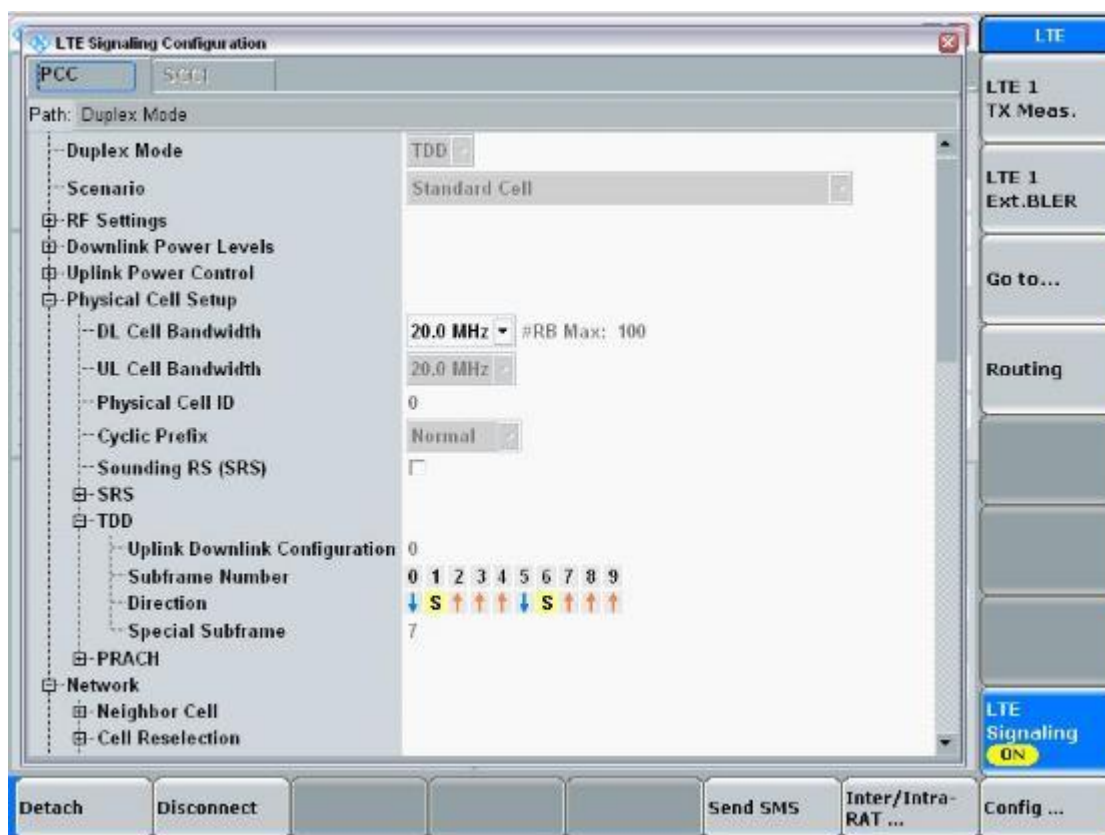
- a. Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating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

### 7.4 Area & Zoom Scan Procedure

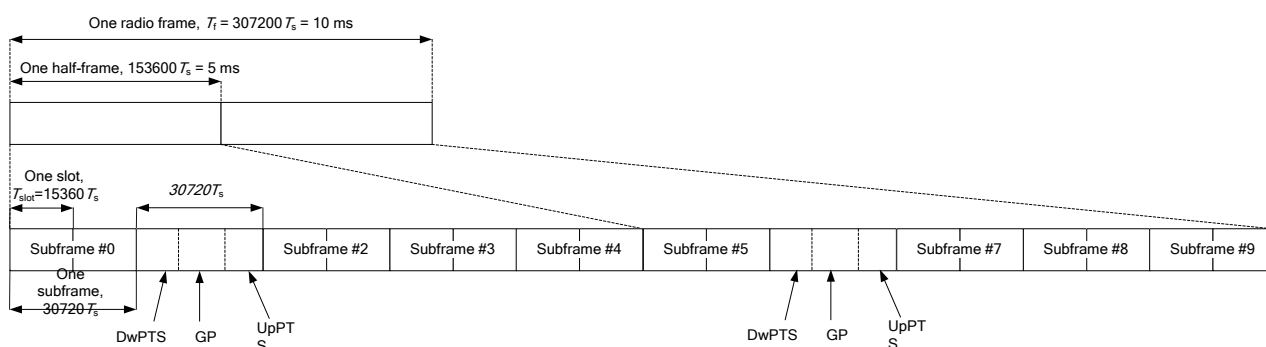
First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r04 quoted below. When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

## 7.5 LTE (TDD) Considerations

During TDD-LTE SAR testing, the EUT was commanded to transmit on maximum output power and maximum transmitting bandwidth. The uplink and downlink slot configuration as below in one radio frame.



According to 3GPP Per 3GPP TS 36.211. Each radio frame of length ( $T_f=307200 T_s = 10\text{ms}$ ) of two half-frames of length ( $153600 T_s = 5\text{ms}$ ). Each half-frame consists of five sub-frames of length ( $30720 T_s = 1\text{ms}$ )



And the special sub-frame with the three fields DwPTS, GP and UpPTS.

The length of DwPTS and UpPTS is given by below table subject to the total length of DwPTS, GP and UpPTS being equal to  $30720 T_s = 1\text{ms}$ .

### Configuration of special sub-frame (lengths of DwPTS/GP/UpPTS)

Special sub-frame configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21592 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$		
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$	$2560 \cdot T_s$	$5120 \cdot T_s$
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21592 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-		
9	$13168 \cdot T_s$			-		

For special sub-frame uplink time we used the largest cyclic prefix for duty cycle calculate;

Maximum uplink time of one special sub-frame=(largest cyclic prefix)/(one sub-frame of length)\* time of one sub-frame= $5120 \cdot T_s / 30720 \cdot T_s * 1 \text{ms} = 0.167 \text{ms}$

One radio frame with 6 uplink sub-frames and two special sub-frame,

there for the maximum Uplink time in one radio frame is:  $6 * 1 \text{ ms} + 2 * 0.167 \text{ ms} = 6.334 \text{ms}$

So, the duty cycle for TDD-LTE is:  $6.334 \text{ms} / 10 \text{ms} = 1: 1.58$



## 8 CONDUCTED RF OUPUT POWER

### 8.1 GSM

Please refer the document “Conducted RF Output Power List.pdf”.

### 8.2 WCDMA

Please refer the document “Conducted RF Output Power List.pdf”.

### 8.3 LTE

Please refer the document “Conducted RF Output Power List.pdf”.

### 8.4 Intra-Band Uplink CA Normal Power

Note:

1. This devices supports intra-band uplink CA of 7C/38C/41C.
2. For intra-band uplink carrier aggregation power verification and measurement is selected highest PCC and SCC bandwidth combination to do and was according to 3GPP 36.52101 sectino6.2.2A.1 and section 6.2.2A.2 test procedure.
3. For intra-band uplink CA output power was measured high / middle / low channel combination, and for SAR verification is selected highest output power combination with each exposure condition in each frequency band using the highest SAR configuration test in standalone LTE mode.

Please refer the document “Conducted RF Output Power List.pdf”.

## 8.5 WIFI

### 8.5.1 2.4G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	<b>16.51</b>	17.00	Yes
		2	2417	14.66	16.00	No
		3	2422	14.78	16.00	No
		4	2427	14.83	16.00	No
		5	2432	15.44	17.00	No
		6	2437	16.47	17.00	No
		7	2442	15.56	17.00	No
		8	2447	14.14	16.00	No
		9	2452	12.70	14.00	No
		10	2457	13.11	14.00	No
		11	2462	14.91	16.00	No
	802.11g	1	2412	16.03	17.00	No
		2	2417	18.11	20.00	Yes
		6	2437	18.31	20.00	Yes
		9	2452	<b>18.37</b>	20.00	Yes
		10	2452	15.89	17.00	No
		11	2462	14.89	16.00	No
	802.11n(HT20)	1	2412	13.97	15.00	No
		2	2417	17.89	19.00	No
		6	2437	18.14	20.00	No
		8	2447	18.28	20.00	No
9		2452	17.73	19.00	No	
10		2457	16.23	18.00	No	
11		2462	14.28	16.00	No	

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11g/n) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11g is chosen over 802.11n.

## 8.5.2 5G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	15.75	17.00	Yes
		44	5220	<b>17.80</b>	19.00	Yes
		48	5240	17.75	19.00	Yes
	802.11n(HT20)	36	5180	14.73	16.00	No
		44	5220	16.75	18.00	No
		48	5240	16.80	18.00	No
	802.11n(HT40)	38	5190	13.33	15.00	No
		46	5230	15.79	17.00	No
	802.11ac(VHT20)	36	5180	15.15	17.00	No
		44	5220	17.19	18.00	No
		48	5240	17.26	18.00	No
	802.11ac(VHT40)	38	5190	13.34	15.00	No
		46	5230	15.82	17.00	No
	802.11ac(VHT80)	42	5210	11.85	13.00	No
5.3 (5.25~5.35)	802.11a	52	5260	17.88	19.00	Yes
		60	5300	<b>18.06</b>	19.00	Yes
		64	5320	16.23	18.00	Yes
	802.11n(HT20)	52	5260	17.03	18.00	No
		60	5300	17.18	18.00	No
		64	5320	15.27	17.00	No
	802.11n(HT40)	54	5270	15.83	17.00	No
		62	5310	13.28	15.00	No
	802.11ac(VHT20)	52	5260	17.51	18.00	No
		60	5300	17.53	18.00	No
		64	5320	15.64	17.00	No
	802.11ac(VHT40)	54	5270	15.98	17.00	No
		62	5310	13.30	15.00	No
	802.11ac(VHT80)	58	5290	11.62	13.00	No
5.6 (5.47~5.725)	802.11a	100	5500	16.01	18.00	Yes
		116	5580	17.96	<b>19.00</b>	Yes
		140	5700	14.18	16.00	Yes
		144	5720	17.10	19.00	Yes
	802.11n(HT20)	100	5500	15.90	17.00	No
		116	5580	17.05	18.00	No
		140	5700	14.08	16.00	No
		144	5720	16.04	18.00	No

	802.11n(HT40)	102	5510	12.39	14.00	No
		118	5590	16.05	17.00	No
		134	5670	15.63	17.00	No
	802.11ac(VHT20)	100	5500	16.35	18.00	No
		116	5580	17.51	18.00	No
		140	5700	14.05	16.00	No
		144	5720	16.47	18.00	No
	802.11ac(VHT40)	102	5510	13.42	15.00	No
		118	5590	16.16	17.00	No
		134	5670	15.11	17.00	No
	802.11ac(VHT80)	106	5530	12.31	14.00	No
		122	5690	15.08	16.00	No
5.8 (5.725~5.850)	802.11a	149	5745	14.07	15.00	No
		157	5785	13.99	15.00	No
		165	5825	13.88	15.00	No
	802.11n(HT20)	149	5745	13.93	15.00	No
		157	5785	13.89	15.00	No
		165	5825	13.75	15.00	No
	802.11n(HT40)	151	5755	13.99	15.00	No
		159	5795	13.92	15.00	No
	802.11ac(VHT20)	149	5745	13.92	15.00	No
		157	5785	13.86	15.00	No
		165	5825	13.76	15.00	No
	802.11ac(VHT40)	151	5755	14.06	15.00	No
		159	5795	13.95	15.00	No
	802.11ac(VHT80)	155	5775	<b>13.84</b>	15.00	Yes

Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is  $\leq 1.2$  W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

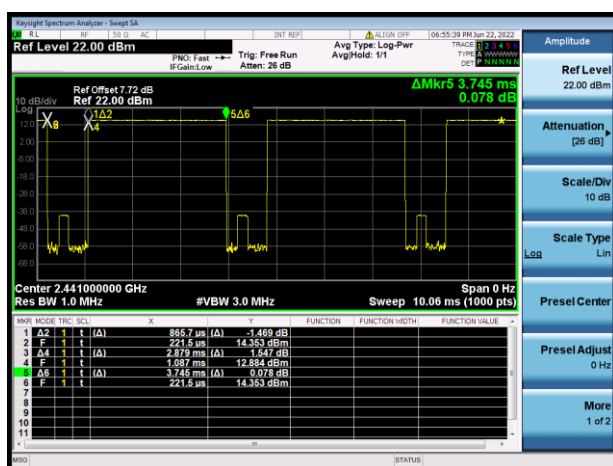
## 8.6 Bluetooth

Mode	GFSK			π/4-DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Average (dBm)	13.18	<b>13.92</b>	12.88	9.67	10.61	9.31
Tune-Up Limit (dBm)	14.00			14.00		
SAR Test Require	YES	YES	YES	NO	NO	NO
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Average (dBm)	9.51	10.43	9.19	/	/	/
Tune-Up Limit (dBm)	14.00			/		
SAR Test Require	NO	NO	NO			
Mode	BLE-1Mbps			BLE-2Mbps		
Channel	0	19	39	0	19	39
Frequency (MHz)	2402	2440	2480	2402	2440	2480
Average (dBm)	-2.95	-2.21	-2.77	-2.92	-2.19	-2.67
Tune-Up Limit (dBm)	-1.00			-1.00		
SAR Test Require	NO	NO	NO	NO	NO	NO

Note: The Bluetooth duty cycle is 76.68 % as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

### Duty Cycle

#### GFSK



## 8.7 Power Reduction List

- 1.This mobile phone device supports the receiver detection mechanism. This device uses the receiver to indicate whether the user is making a call in head.
- 2.When device is making call in head, the power reduction will applied for SAR compliance.
- 3.This device uses the P-sensor to detect Body and Limb state.
4. The power reduction state of the head is consistent with the power reduction of the body's P-Sensor trigger state

**WWAN Antenna Reduced power level table**

DSI state	Sensor state	Receiver state
DSI1	/	On (head scenario)
DSI4	on	Off (Body scenario)
DSI5	off	Off (Body scenario)

**WWAN Antenna Power table**

Mode	Antenna	WWAN Antenna		
		Full Power	Receiver on	Receiver off
			Head	Hotspot&Specific
		DSI5	DSI1	DSI4
GSM 850	Ant4	33.50	30.50	31.50
GPRS850 1 Tx Slot	Ant4	33.50	30.50	31.50
GPRS850 2 Tx Slots	Ant4	32.50	27.50	28.50
GPRS850 3 Tx Slots	Ant4	30.50	25.70	26.70
GPRS850 4 Tx Slots	Ant4	29.50	24.50	25.50
EGPRS850 1 Tx Slot	Ant4	28.00	25.00	26.00
EGPRS850 2 Tx Slots	Ant4	26.50	22.00	23.00
EGPRS850 3 Tx Slots	Ant4	24.50	20.20	21.20
EGPRS850 4 Tx Slots	Ant4	23.50	19.00	20.00
GSM 850	Ant1	33.50	33.50	33.50
GPRS850 1 Tx Slot	Ant1	33.50	33.50	33.50
GPRS850 2 Tx Slots	Ant1	32.50	32.50	32.50
GPRS850 3 Tx Slots	Ant1	30.50	30.50	30.50
GPRS850 4 Tx Slots	Ant1	29.50	29.50	29.50
EGPRS850 1 Tx Slot	Ant1	28.00	28.00	28.00
EGPRS850 2 Tx Slots	Ant1	26.50	26.50	26.50
EGPRS850 3 Tx Slots	Ant1	24.50	24.50	24.50
EGPRS850 4 Tx Slots	Ant1	23.50	23.50	23.50
GSM 1900	Ant4	30.50	24.00	26.00
GPRS1900 1 Tx Slot	Ant4	30.50	24.00	26.00

GPRS1900 2 Tx Slots	Ant4	29.50	21.00	23.00
GPRS1900 3 Tx Slots	Ant4	27.50	19.20	21.20
GPRS1900 4 Tx Slots	Ant4	26.50	18.00	20.00
EGPRS1900 1 Tx Slot	Ant4	26.50	20.00	22.00
EGPRS1900 2 Tx Slots	Ant4	25.50	17.00	19.00
EGPRS1900 3 Tx Slots	Ant4	23.50	15.20	17.20
EGPRS1900 4 Tx Slots	Ant4	22.50	14.00	16.00
GSM 1900	Ant1	30.50	30.50	25.50
GPRS1900 1 Tx Slot	Ant1	30.50	30.50	25.50
GPRS1900 2 Tx Slots	Ant1	29.50	29.50	22.50
GPRS1900 3 Tx Slots	Ant1	27.50	27.50	20.70
GPRS1900 4 Tx Slots	Ant1	26.50	26.50	19.50
EGPRS1900 1 Tx Slot	Ant1	26.50	26.50	21.50
EGPRS1900 2 Tx Slots	Ant1	25.50	25.50	18.50
EGPRS1900 3 Tx Slots	Ant1	23.50	23.50	16.70
EGPRS1900 4 Tx Slots	Ant1	22.50	22.50	15.50
WCDMA Band2 AMR	Ant4	25.00	18.00	20.00
WCDMA Band2 RMC	Ant4	25.00	18.00	20.00
HSDPA Subtest-1	Ant4	24.50	17.50	19.50
HSDPA Subtest-2	Ant4	24.50	17.50	19.50
HSDPA Subtest-3	Ant4	24.00	17.00	19.00
HSDPA Subtest-4	Ant4	24.00	17.00	19.00
DC-HSDPA Subtest-1	Ant4	24.50	17.50	19.50
DC-HSDPA Subtest-2	Ant4	24.00	17.00	19.00
DC-HSDPA Subtest-3	Ant4	24.00	17.00	19.00
DC-HSDPA Subtest-4	Ant4	23.50	16.50	18.50
HSUPA Subtest-1	Ant4	22.50	15.50	17.50
HSUPA Subtest-2	Ant4	22.00	15.00	17.00
HSUPA Subtest-3	Ant4	23.50	16.50	18.50
HSUPA Subtest-4	Ant4	22.00	15.00	17.00
HSUPA Subtest-5	Ant4	22.50	15.50	17.50
WCDMA Band2 AMR	Ant1	25.00	25.00	18.50
WCDMA Band2 RMC	Ant1	25.00	25.00	18.50
HSDPA Subtest-1	Ant1	24.50	24.50	18.00
HSDPA Subtest-2	Ant1	24.50	24.50	18.00
HSDPA Subtest-3	Ant1	24.00	24.00	17.50
HSDPA Subtest-4	Ant1	24.00	24.00	17.50
DC-HSDPA Subtest-1	Ant1	24.50	24.50	18.00
DC-HSDPA Subtest-2	Ant1	24.00	24.00	17.50
DC-HSDPA Subtest-3	Ant1	24.00	24.00	17.50
DC-HSDPA Subtest-4	Ant1	23.50	23.50	17.00
HSUPA Subtest-1	Ant1	22.50	22.50	16.00
HSUPA Subtest-2	Ant1	22.00	22.00	15.50

HSUPA Subtest-3	Ant1	23.50	23.50	17.00
HSUPA Subtest-4	Ant1	22.00	22.00	15.50
HSUPA Subtest-5	Ant1	22.50	22.50	16.00
WCDMA Band4 AMR	Ant4	25.00	21.00	20.00
WCDMA Band4 RMC	Ant4	25.00	21.00	20.00
HSDPA Subtest-1	Ant4	24.50	20.50	19.50
HSDPA Subtest-2	Ant4	24.50	20.50	19.50
HSDPA Subtest-3	Ant4	24.00	20.00	19.00
HSDPA Subtest-4	Ant4	24.00	20.00	19.00
DC-HSDPA Subtest-1	Ant4	24.00	20.00	19.00
DC-HSDPA Subtest-2	Ant4	24.00	20.00	19.00
DC-HSDPA Subtest-3	Ant4	23.50	19.50	18.50
DC-HSDPA Subtest-4	Ant4	23.50	19.50	18.50
HSUPA Subtest-1	Ant4	22.50	18.50	17.50
HSUPA Subtest-2	Ant4	22.00	18.00	17.00
HSUPA Subtest-3	Ant4	23.50	19.50	18.50
HSUPA Subtest-4	Ant4	22.00	18.00	17.00
HSUPA Subtest-5	Ant4	22.50	18.50	17.50
WCDMA Band4 AMR	Ant1	25.00	25.00	18.50
WCDMA Band4 RMC	Ant1	25.00	25.00	18.50
HSDPA Subtest-1	Ant1	24.50	24.50	18.00
HSDPA Subtest-2	Ant1	24.50	24.50	18.00
HSDPA Subtest-3	Ant1	24.00	24.00	17.50
HSDPA Subtest-4	Ant1	24.00	24.00	17.50
DC-HSDPA Subtest-1	Ant1	24.00	24.00	17.50
DC-HSDPA Subtest-2	Ant1	24.00	24.00	17.50
DC-HSDPA Subtest-3	Ant1	23.50	23.50	17.00
DC-HSDPA Subtest-4	Ant1	23.50	23.50	17.00
HSUPA Subtest-1	Ant1	22.50	22.50	16.00
HSUPA Subtest-2	Ant1	22.00	22.00	15.50
HSUPA Subtest-3	Ant1	23.50	23.50	17.00
HSUPA Subtest-4	Ant1	22.00	22.00	15.50
HSUPA Subtest-5	Ant1	22.50	22.50	16.00
WCDMA Band5 AMR	Ant4	25.50	21.50	24.50
WCDMA Band5 RMC	Ant4	25.50	21.50	24.50
HSDPA Subtest-1	Ant4	25.00	21.00	24.00
HSDPA Subtest-2	Ant4	25.00	21.00	24.00
HSDPA Subtest-3	Ant4	24.50	20.50	23.50
HSDPA Subtest-4	Ant4	24.50	20.50	23.50
DC-HSDPA Subtest-1	Ant4	24.00	20.00	23.00
DC-HSDPA Subtest-2	Ant4	24.00	20.00	23.00
DC-HSDPA Subtest-3	Ant4	23.50	19.50	22.50
DC-HSDPA Subtest-4	Ant4	23.50	19.50	22.50



HSUPA Subtest-1	Ant4	22.50	18.50	21.50
HSUPA Subtest-2	Ant4	22.00	18.00	21.00
HSUPA Subtest-3	Ant4	23.50	19.50	22.50
HSUPA Subtest-4	Ant4	22.00	18.00	21.00
HSUPA Subtest-5	Ant4	22.50	18.50	21.50
WCDMA Band5 AMR	Ant1	25.50	25.50	24.50
WCDMA Band5 RMC	Ant1	25.50	25.50	24.50
HSDPA Subtest-1	Ant1	25.00	25.00	24.00
HSDPA Subtest-2	Ant1	25.00	25.00	24.00
HSDPA Subtest-3	Ant1	24.50	24.50	23.50
HSDPA Subtest-4	Ant1	24.50	24.50	23.50
DC-HSDPA Subtest-1	Ant1	24.00	24.00	23.00
DC-HSDPA Subtest-2	Ant1	24.00	24.00	23.00
DC-HSDPA Subtest-3	Ant1	23.50	23.50	22.50
DC-HSDPA Subtest-4	Ant1	23.50	23.50	22.50
HSUPA Subtest-1	Ant1	22.50	22.50	21.50
HSUPA Subtest-2	Ant1	22.00	22.00	21.00
HSUPA Subtest-3	Ant1	23.50	23.50	22.50
HSUPA Subtest-4	Ant1	22.00	22.00	21.00
HSUPA Subtest-5	Ant1	22.50	22.50	21.50
LTE Band2	Ant4	25.50	19.00	20.00
LTE Band2	Ant1	25.50	25.50	19.00
LTE Band4	Ant4	25.50	21.00	20.00
LTE Band4	Ant1	25.50	25.50	19.00
LTE Band5	Ant4	25.50	21.50	25.50
LTE Band5	Ant1	25.50	25.50	24.50
LTE Band7	Ant4	25.50	18.50	18.50
LTE Band7	Ant1	25.50	25.50	18.50
LTE Band38	Ant4	25.50	21.50	21.50
LTE Band38	Ant1	25.50	25.50	21.50
LTE Band41	Ant4	25.50	20.50	21.50
LTE Band41	Ant1	25.50	25.50	21.5

## 9 TEST EXCLUSION CONSIDERATION

Please refer the document “BL-SZ2260422-AA.pdf”.

## 9.1 SAR Test Exclusion Consideration Table

According with FCC KDB 447498 D04, Appendix B, The SAR-based exemption formula applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW), this Device SAR test configurations consider as following :

ANT1

Band	Mode	Max. Peak Power		Test Position Configurations					
		dBm	mW	Head	Front/ Back	Left Edge	Right Edge	Top Edge	Bottom Edge
GSM 850	Distance to User		<5mm	<5mm	<5mm	<5mm	>25mm	<5mm	
	Data	24.31	269.77	Yes	Yes	Yes	Yes	No	Yes
GSM 1900	Distance to User		<5mm	<5mm	<5mm	<5mm	>25mm	<5mm	
	Data	23.37	217.27	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 2	Distance to User		<5mm	<5mm	<5mm	<5mm	>25mm	<5mm	
	RMC	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 4	Distance to User		<5mm	<5mm	<5mm	<5mm	>25mm	<5mm	
	RMC	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 5	Distance to User		<5mm	<5mm	<5mm	<5mm	>25mm	<5mm	
	RMC	25.50	254.81	Yes	Yes	Yes	Yes	No	Yes
LTE Band 2	Distance to User		<5mm	<5mm	<5mm	<5mm	>25mm	<5mm	
	QPSK	25.50	254.81	Yes	Yes	Yes	Yes	No	Yes
LTE Band 4	Distance to User		<5mm	<5mm	<5mm	<5mm	>25mm	<5mm	
	QPSK	25.50	254.81	Yes	Yes	Yes	Yes	No	Yes
LTE Band 5	Distance to User		<5mm	<5mm	<5mm	<5mm	>25mm	<5mm	
	QPSK	25.50	254.81	Yes	Yes	Yes	Yes	No	Yes
LTE Band 7	Distance to User		<5mm	<5mm	<5mm	<5mm	>25mm	<5mm	
	QPSK	25.50	254.81	Yes	Yes	Yes	Yes	No	Yes
LTE Band 38	Distance to User		<5mm	<5mm	<5mm	<5mm	>25mm	<5mm	
	QPSK	25.50	254.81	Yes	Yes	Yes	Yes	No	Yes

## ANT4

Band	Mode	Max. Peak Power		Test Position Configurations					
		dBm	mW	Head	Front/ Back	Left Edge	Right Edge	Top Edge	Bottom Edge
GSM 850	Distance to User		<5mm	<5mm	>25mm	<5mm	<5mm	>25mm	
	Data	24.31	269.77	Yes	Yes	No	Yes	Yes	No
GSM 1900	Distance to User		<5mm	<5mm	>25mm	<5mm	<5mm	>25mm	
	Data	21.31	135.21	Yes	Yes	No	Yes	Yes	No
WCDMA Band 2	Distance to User		<5mm	<5mm	>25mm	<5mm	<5mm	>25mm	
	RMC	25.00	316.23	Yes	Yes	No	Yes	Yes	No
WCDMA Band 4	Distance to User		<5mm	<5mm	>25mm	<5mm	<5mm	>25mm	
	RMC	25.00	316.23	Yes	Yes	No	Yes	Yes	No
WCDMA Band 5	Distance to User		<5mm	<5mm	>25mm	<5mm	<5mm	>25mm	
	RMC	25.50	254.81	Yes	Yes	No	Yes	Yes	No
LTE Band 2	Distance to User		<5mm	<5mm	>25mm	<5mm	<5mm	>25mm	
	QPSK	25.50	254.81	Yes	Yes	No	Yes	Yes	No
LTE Band 4	Distance to User		<5mm	<5mm	>25mm	<5mm	<5mm	>25mm	
	QPSK	25.50	254.81	Yes	Yes	No	Yes	Yes	No
LTE Band 5	Distance to User		<5mm	<5mm	>25mm	<5mm	<5mm	>25mm	
	QPSK	25.50	254.81	Yes	Yes	No	Yes	Yes	No
LTE Band 7	Distance to User		<5mm	<5mm	>25mm	<5mm	<5mm	>25mm	
	QPSK	25.50	254.81	Yes	Yes	No	Yes	Yes	No
LTE Band 38	Distance to User		<5mm	<5mm	>25mm	<5mm	<5mm	>25mm	
	QPSK	25.50	254.81	Yes	Yes	No	Yes	Yes	No

## ANT7

Band	Mode	Max. Peak Power		Test Position Configurations					
		dBm	mW	Head	Front/ Back	Left Edge	Right Edge	Top Edge	Bottom Edge
WLAN 2.4 G	Distance to User		<5mm	<5mm	<5mm	>25mm	<5mm	>25mm	
	802.11b	17.00	50.12	Yes	Yes	Yes	No	Yes	No
	802.11g	20.00	100.00	No	No	No	No	No	No
	802.11n(HT20)	20.00	100.00	No	No	No	No	No	No
WLAN 5.2 G	Distance to User		<5mm	<5mm	<5mm	>25mm	<5mm	>25mm	
	802.11a	19.00	79.43	Yes	Yes	Yes	No	Yes	No
	802.11n(HT20)	18.00	63.10	No	No	No	No	No	No
	802.11n(HT40)	17.00	50.12	No	No	No	No	No	No
	802.11ac(VHT20)	18.00	63.10	No	No	No	No	No	No
	802.11ac(VHT40)	17.00	50.12	No	No	No	No	No	No
WLAN 5.3 G	Distance to User		<5mm	<5mm	<5mm	>25mm	<5mm	>25mm	
	802.11a	19.00	79.43	Yes	Yes	Yes	No	Yes	No
	802.11n(HT20)	18.00	63.10	No	No	No	No	No	No
	802.11n(HT40)	17.00	50.12	No	No	No	No	No	No
	802.11ac(VHT20)	18.00	63.10	No	No	No	No	No	No
	802.11ac(VHT40)	17.00	50.12	No	No	No	No	No	No
WLAN 5.6 G	Distance to User		<5mm	<5mm	<5mm	>25mm	<5mm	>25mm	
	802.11a	19.00	79.43	Yes	Yes	Yes	No	Yes	No
	802.11n(HT20)	18.00	63.10	No	No	No	No	No	No
	802.11n(HT40)	17.00	50.12	No	No	No	No	No	No
	802.11ac(VHT20)	18.00	63.10	No	No	No	No	No	No
	802.11ac(VHT40)	17.00	50.12	No	No	No	No	No	No
WLAN 5.8 G	Distance to User		<5mm	<5mm	<5mm	>25mm	<5mm	>25mm	
	802.11a	15.00	31.62	No	No	No	No	No	No
	802.11n(HT20)	15.00	31.62	No	No	No	No	No	No
	802.11n(HT40)	15.00	31.62	No	No	No	No	No	No
	802.11ac(VHT20)	15.00	31.62	No	No	No	No	No	No
	802.11ac(VHT40)	15.00	31.62	No	No	No	No	No	No
	802.11ac(VHT80)	15.00	31.62	Yes	Yes	Yes	No	Yes	No

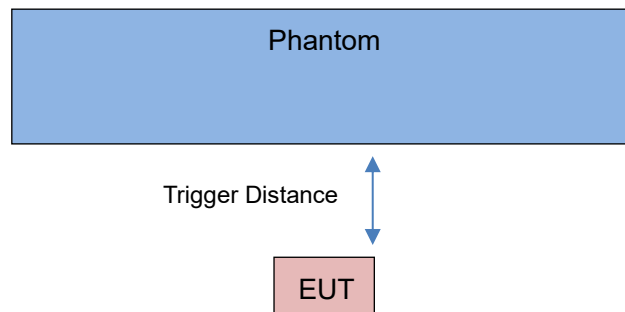
## 9.2 PROXIMITY SENSOR TRIGGERING TEST

### 9.2.1 Procedures for determining proximity sensor distance

The device uses one proximity sensors to reduce the maximum output power in selected wireless mode and operating configurations to ensure SAR compliance. The sensor implementation can identify and facilitate triggering different max power levels for different scenarios including the device held by hand(Extremity) and different exposure test positions test positions when the device is closed to a user’s body.

Proximity sensor triggering distance testing was performed, EUT moving further away from the phantom and EUT moving toward the phantom were both assessed, and the shortest triggering distances were reported and used for SAR assessment. Note that while sensor is failed and it sets the output power to the lowest one in the sensor trigger state ,to make sure the SAR requirements can still be satisfied.

### 9.2.2 proximity sensor channel-A

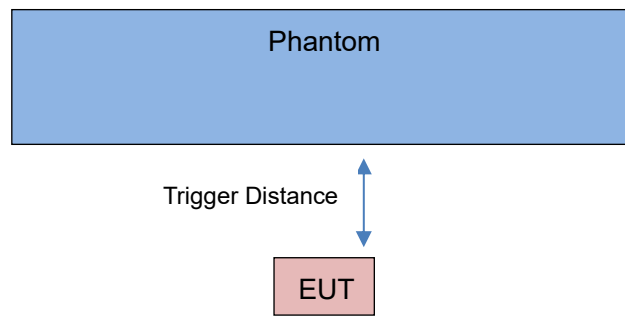


EUT moving toward Phantom

Distance in mm	1~5	6~8	9	10	11	12	13	14	15	16	22
Front Side	On	On	On	On	On	On	On	On	On	Off	Off
Back Side	On	On	On	On	On	On	On	On	On	Off	Off
Top Edge	On	On	On	On	On	On	On	On	On	Off	Off
Right Edge	On	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off

Note: Power reduction is only applicable for Ant.4

### 9.2.3 proximity sensor channel-B



EUT moving toward Phantom

Distance in mm	1~5	6~8	9	10	11	12	13	14	15	16	22
Front Side	On	On	On	On	On	On	On	On	On	Off	Off
Back Side	On	On	On	On	On	On	On	On	On	Off	Off
Bottom Edge	On	On	On	On	On	On	On	On	On	Off	Off
Left Edge	On	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off

Note: Power reduction is only applicable for Ant. 1

To ensure all production units are compliant, it is generally necessary to reduce the triggering distance determined from the triggering tests by 1 mm, or more if it is necessary, and use the smallest distance for EUT moving toward the phantom, minus 1 mm, as the sensor triggering distance for determining the SAR measurement distance.

Ant4 of proximity sensor channel-A

EUT Sides	Additional SAR test Distance in mm
Front Side	15
Back Side	15
Right Edge	5
Top Edge	15

Ant1 of proximity sensor channel-B

EUT Sides	Additional SAR test Distance in mm
Front Side	15
Back Side	15
Left Edge	5
Bottom Edge	15

### 9.2.4 Procedures for determining EUT tilt angle influences to proximity sensor triggering

The influence of EUT tilt angles to proximity sensor channel-A triggering was determined by positioning each EUT edge that contains a transmitting antenna 4, perpendicular to the flat phantom, at 16 mm separation for the front side, 16mm separation for the back side, 6mm separation for the right edge and 16 mm separation for the top edge.

The influence of EUT tilt angles to proximity sensor channel-B triggering was determined by positioning each EUT edge that contains a transmitting antenna 1, perpendicular to the flat phantom, at 16 mm separation for the front side, 16mm separation for the back side, 6mm separation for the left edge and 16 mm separation for the bottom edge.

Rotating the EUT around the edge next to the phantom in  $\leq 10^\circ$  increments until the EUT is  $\pm 45^\circ$  from the vertical position at  $0^\circ$ , and the maximum output power remains in the reduced mode.

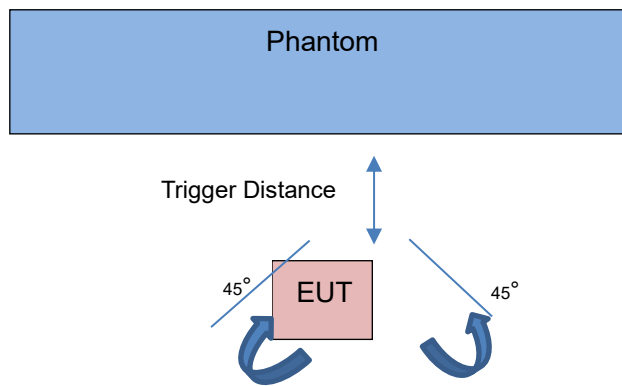


Table: Summary of Phone Tilt Angle Influence to Proximity Sensor Triggering(Left/Right/Top/Bottom edge)

Antenna	Position	Minimum trigger distance at which power reduction was maintained over $\pm 45^\circ$	Power Reduction Status										
			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°
ANT4	Right edge	6mm	on	on	on	on	on	on	on	on	on	on	on
ANT4	Top edge	16mm	on	on	on	on	on	on	on	on	on	on	on
ANT1	Left edge	6mm	on	on	on	on	on	on	on	on	on	on	on
ANT1	Bottom edge	16mm	on	on	on	on	on	on	on	on	on	on	on



# 10 TEST RESULT

## 10.1 GSM 850

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
<b>Head</b>													
ANT4	DSI1	GPRS 1slots	Left Cheek	0	190	836.6	0.17	0.372	30.49	30.50	1.002	0.373	/
	DSI1		Left Tilt	0	190	836.6	0.10	0.266	30.49	30.50	1.002	0.267	/
	DSI1		Right Cheek	0	190	836.6	-0.08	0.455	30.49	30.50	1.002	<b>0.456</b>	1#
	DSI1		Right Tilt	0	190	836.6	0.08	0.367	30.49	30.50	1.002	0.368	/
ANT1	DSI1	GPRS 2slots	Left Cheek	0	190	836.6	-0.15	0.232	31.96	32.50	1.132	0.263	/
	DSI1		Left Tilt	0	190	836.6	-0.02	0.112	31.96	32.50	1.132	0.127	/
	DSI1		Right Cheek	0	190	836.6	0.01	0.192	31.96	32.50	1.132	0.217	/
	DSI1		Right Tilt	0	190	836.6	-0.02	0.093	31.96	32.50	1.132	0.105	/
<b>Hotspot</b>													
ANT4	DSI4	GPRS 1slots	Front Side	10	190	836.6	-0.18	0.093	30.98	31.50	1.127	0.105	/
	DSI4		Back Side	10	190	836.6	-0.06	0.161	30.98	31.50	1.127	0.181	/
	DSI4		Right Edge	10	190	836.6	-0.12	0.072	30.98	31.50	1.127	0.081	/
	DSI4		Top Edge	10	190	836.6	0.13	0.123	30.98	31.50	1.127	0.139	/
ANT1	DSI4	GPRS 2slots	Front Side	10	190	836.6	0.06	0.182	31.96	32.50	1.132	0.206	/
	DSI4		Back Side	10	190	836.6	-0.15	0.479	31.96	32.50	1.132	<b>0.542</b>	2#
	DSI4		Left Edge	10	190	836.6	-0.01	0.121	31.96	32.50	1.132	0.137	/
	DSI4		Right Edge	10	190	836.6	0.03	0.235	31.96	32.50	1.132	0.266	/
	DSI4		Bottom Edge	10	190	836.6	-0.19	0.232	31.96	32.50	1.132	0.263	/
<b>P-sensor</b>													
ANT4	DSI5	GPRS 2slots	Front Side	15	190	836.6	0.16	0.159	32.01	32.50	1.119	0.178	/
	DSI5		Back Side	15	190	836.6	-0.04	0.235	32.01	32.50	1.119	0.263	/
	DSI5		Right Edge	5	190	836.6	-0.08	0.194	32.01	32.50	1.119	0.217	/
	DSI5		Top Edge	15	190	836.6	-0.18	0.173	32.01	32.50	1.119	0.194	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

### 10.2 GSM 1900

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
<b>Head</b>													
ANT4	DSI1	GPRS 1slots	Left Cheek	0	661	1880.0	-0.13	0.121	22.45	24.00	1.429	0.173	/
	DSI1		Left Tilt	0	661	1880.0	-0.10	0.142	22.45	24.00	1.429	0.203	/
	DSI1		Right Cheek	0	661	1880.0	-0.18	0.152	22.45	24.00	1.429	0.217	/
	DSI1		Right Tilt	0	661	1880.0	0.09	0.263	22.45	24.00	1.429	0.376	3#
ANT1	DSI1	GPRS 2slots	Left Cheek	0	661	1880.0	0.15	0.132	28.25	29.50	1.335	0.176	/
	DSI1		Left Tilt	0	661	1880.0	-0.05	0.074	28.25	29.50	1.335	0.099	/
	DSI1		Right Cheek	0	661	1880.0	0.11	0.112	28.25	29.50	1.335	0.150	/
	DSI1		Right Tilt	0	661	1880.0	-0.14	0.076	28.25	29.50	1.335	0.101	/
<b>Hotspot</b>													
ANT4	DSI4	GPRS 1slots	Front Side	10	661	1880.0	0.13	0.045	24.48	26.00	1.419	0.064	/
	DSI4		Back Side	10	661	1880.0	-0.07	0.186	24.48	26.00	1.419	0.264	/
	DSI4		Right Edge	10	661	1880.0	0.06	0.048	24.48	26.00	1.419	0.068	/
	DSI4		Top Edge	10	661	1880.0	0.03	0.155	24.48	26.00	1.419	0.220	/
ANT1	DSI4	GPRS 1slots	Front Side	10	661	1880.0	0.06	0.063	24.07	25.50	1.390	0.088	/
	DSI4		Back Side	10	661	1880.0	0.04	0.232	24.07	25.50	1.390	0.322	/
	DSI4		Left Edge	10	661	1880.0	0.03	0.043	24.07	25.50	1.390	0.060	/
	DSI5	GPRS 2slots	Right Edge	10	661	1880.0	0.09	0.115	28.41	29.50	1.285	0.148	/
	DSI4	GPRS 1slots	Bottom Edge	10	661	1880.0	0.37	0.262	24.07	25.50	1.390	0.364	4#
<b>P-sensor</b>													
ANT4	DSI5	GPRS 2slots	Front Side	15	661	1880.0	0.18	0.095	28.27	29.50	1.329	0.126	/
	DSI5		Back Side	15	661	1880.0	-0.13	0.356	28.27	29.50	1.329	0.473	/
	DSI5		Right Edge	5	661	1880.0	-0.02	0.164	28.27	29.50	1.329	0.218	/
	DSI5		Top Edge	15	661	1880.0	0.11	0.369	28.27	29.50	1.329	0.490	/
ANT1	DSI5	GPRS 2slots	Front Side	15	661	1880.0	0.10	0.218	28.41	29.50	1.285	0.280	/
	DSI5		Back Side	15	661	1880.0	-0.15	0.580	28.41	29.50	1.285	0.745	/
	DSI5		Left Edge	5	661	1880.0	-0.10	0.468	28.41	29.50	1.285	0.602	/
	DSI5		Bottom Edge	15	661	1880.0	0.11	0.722	28.41	29.50	1.285	0.928	/
	DSI5		Bottom Edge	15	512	1850.2	-0.15	0.765	28.39	29.50	1.291	0.988	/
	DSI5		Bottom Edge	15	810	1909.8	-0.11	0.706	28.42	29.50	1.282	0.905	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

## 10.3WCDMA Band 2

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
<b>Head</b>													
ANT4	DSI1	RMC	Left Cheek	0	9400	1880.0	-0.01	0.193	17.54	18.00	1.112	0.215	/
	DSI1		Left Tilt	0	9400	1880.0	0.10	0.215	17.54	18.00	1.112	0.239	/
	DSI1		Right Cheek	0	9400	1880.0	0.15	0.232	17.54	18.00	1.112	0.258	/
	DSI1		Right Tilt	0	9400	1880.0	-0.03	0.302	17.54	18.00	1.112	<b>0.336</b>	5#
ANT1	DSI1	RMC	Left Cheek	0	9262	1852.4	0.10	0.188	24.38	25.00	1.153	0.217	/
	DSI1		Left Tilt	0	9262	1852.4	-0.05	0.115	24.38	25.00	1.153	0.133	/
	DSI1		Right Cheek	0	9262	1852.4	0.11	0.142	24.38	25.00	1.153	0.164	/
	DSI1		Right Tilt	0	9262	1852.4	-0.07	0.131	24.38	25.00	1.153	0.151	/
<b>Hotspot</b>													
ANT4	DSI4	RMC	Front Side	10	9400	1880.0	-0.04	0.082	19.56	20.00	1.107	0.091	/
	DSI4		Back Side	10	9400	1880.0	0.09	0.323	19.56	20.00	1.107	0.357	/
	DSI4		Right Edge	10	9400	1880.0	-0.13	0.101	19.56	20.00	1.107	0.112	/
	DSI4		Top Edge	10	9400	1880.0	-0.12	0.255	19.56	20.00	1.107	0.282	/
ANT1	DSI4	RMC	Front Side	10	9400	1880.0	-0.07	0.141	18.03	18.50	1.114	0.157	/
	DSI4		Back Side	10	9400	1880.0	-0.13	0.385	18.03	18.50	1.114	0.429	/
	DSI4		Left Edge	10	9400	1880.0	0.10	0.344	18.03	18.50	1.114	0.383	/
	DSI4		Right Edge	10	9262	1852.4	0.12	0.165	24.38	25.00	1.153	0.190	/
	DSI4		Bottom Edge	10	9400	1880.0	0.05	0.450	18.03	18.50	1.114	<b>0.501</b>	6#
<b>P-Sensor</b>													
ANT4	DSI5	RMC	Front Side	15	9400	1880.0	0.13	0.123	24.31	25.00	1.172	0.144	/
	DSI5		Back Side	15	9400	1880.0	0.02	0.465	24.31	25.00	1.172	0.545	/
	DSI5		Right Edge	5	9400	1880.0	0.05	0.212	24.31	25.00	1.172	0.249	/
	DSI5		Top Edge	15	9400	1880.0	-0.05	0.443	24.31	25.00	1.172	0.519	/
ANT1	DSI5	RMC	Front Side	15	9262	1852.4	0.19	0.323	24.38	25.00	1.153	0.373	/
	DSI5		Back Side	15	9262	1852.4	-0.17	0.855	24.38	25.00	1.153	0.986	/
	DSI5		Left Edge	5	9262	1880.0	0.05	0.689	24.38	25.00	1.153	0.795	/
	DSI5		Bottom Edge	15	9262	1852.4	-0.03	0.901	24.38	25.00	1.153	1.039	/
	DSI5		Bottom Edge	15	9262	1852.4	-0.06	0.883	24.31	25.00	1.172	1.035	/
	DSI5		Bottom Edge	15	9262	1852.4	0.09	0.874	24.34	25.00	1.164	1.017	/
Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10 g Report SAR (W/kg)	Meas. No.
<b>Specific</b>													
ANT1	DSI4	RMC	Back Side	0	9400	1880.0	0.18	0.938	18.03	18.50	1.114	<b>1.045</b>	7#
	DSI4		Bottom Edge	0	9400	1880.0	0.15	0.772	18.03	18.50	1.114	0.860	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

### 10.4WCDMA Band 4

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
<b>Head</b>													
ANT4	DSI1	RMC	Left Cheek	0	1412	1732.4	-0.15	0.254	19.55	21.00	1.396	0.355	/
	DSI1		Left Tilt	0	1412	1732.4	-0.12	0.323	19.55	21.00	1.396	0.451	/
	DSI1		Right Cheek	0	1412	1732.4	0.17	0.334	19.55	21.00	1.396	0.466	/
	DSI1		Right Tilt	0	1412	1732.4	0.00	0.457	19.55	21.00	1.396	<b>0.638</b>	8#
ANT1	DSI1	RMC	Left Cheek	0	1412	1732.4	0.15	0.188	24.43	25.00	1.140	0.214	/
	DSI1		Left Tilt	0	1412	1732.4	0.09	0.174	24.43	25.00	1.140	0.198	/
	DSI1		Left Tilt	0	1412	1732.4	0.14	0.142	24.43	25.00	1.140	0.162	/
	DSI1		Right Tilt	0	1412	1732.4	0.05	0.126	24.43	25.00	1.140	0.144	/
<b>Hotspot</b>													
ANT4	DSI4	RMC	Front Side	10	1412	1732.4	-0.12	0.113	19.55	20.00	1.109	0.125	/
	DSI4		Back Side	10	1412	1732.4	-0.12	0.265	19.55	20.00	1.109	0.294	/
	DSI4		Right Edge	10	1412	1732.4	-0.18	0.253	19.55	20.00	1.109	0.281	/
	DSI4		Top Edge	10	1412	1732.4	-0.01	0.112	19.55	20.00	1.109	0.124	/
ANT1	DSI4	RMC	Front Side	10	1412	1732.4	0.19	0.141	18.02	18.50	1.117	0.157	/
	DSI4		Back Side	10	1412	1732.4	-0.03	0.445	18.02	18.50	1.117	0.497	/
	DSI4		Left Edge	10	1412	1732.4	-0.02	0.185	18.02	18.50	1.117	0.207	/
	DSI4		Right Edge	10	1412	1732.4	0.01	0.128	24.43	25.00	1.140	0.146	/
	DSI4		Bottom Edge	10	1412	1732.4	0.09	0.521	18.02	18.50	1.117	<b>0.582</b>	9#
<b>P-Sensor</b>													
ANT4	DSI5	RMC	Front Side	15	1412	1732.4	0.08	0.132	24.35	25.00	1.161	0.153	/
	DSI5		Back Side	15	1412	1732.4	-0.03	0.323	24.35	25.00	1.161	0.375	/
	DSI5		Right Edge	5	1412	1732.4	0.00	0.462	24.35	25.00	1.161	0.537	/
	DSI5		Top Edge	15	1412	1732.4	-0.19	0.162	24.35	25.00	1.161	0.188	/
ANT1	DSI5	RMC	Front Side	15	1412	1732.4	-0.16	0.331	24.43	25.00	1.140	0.377	/
	DSI5		Back Side	15	1412	1732.4	-0.03	0.954	24.43	25.00	1.140	1.088	/
	DSI5		Left Edge	5	1412	1732.4	0.00	0.355	24.43	25.00	1.140	0.405	/
	DSI5		Bottom Edge	15	1412	1732.4	0.15	0.913	24.43	25.00	1.140	1.041	/
	DSI5		Bottom Edge	15	1312	1732.4	0.09	0.911	24.42	25.00	1.143	1.041	/
	DSI5		Bottom Edge	15	1513	1732.4	0.11	0.908	24.40	25.00	1.148	1.043	/
Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10 g Report SAR (W/kg)	Meas. No.
<b>Specific</b>													
ANT1	DSI4	RMC	Back Side	0	1412	1732.4	0.19	0.886	18.02	18.50	1.117	<b>0.990</b>	10#
	DSI4		Bottom Edge	0	1412	1732.4	0.13	0.869	18.02	18.50	1.117	0.971	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

### 10.5WCDMA Band 5

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
<b>Head</b>													
ANT4	DSI1	RMC	Left Cheek	0	4182	836.4	-0.10	0.167	20.29	21.50	1.321	0.221	/
	DSI1		Left Tilt	0	4182	836.4	-0.04	0.210	20.29	21.50	1.321	0.277	/
	DSI1		Right Cheek	0	4182	836.4	-0.08	0.218	20.29	21.50	1.321	0.288	/
	DSI1		Right Tilt	0	4182	836.4	-0.05	0.287	20.29	21.50	1.321	<b>0.379</b>	11#
ANT1	DSI1	RMC	Left Cheek	0	4182	836.4	-0.15	0.145	24.49	25.50	1.262	0.183	/
	DSI1		Left Tilt	0	4182	836.4	0.02	0.086	24.49	25.50	1.262	0.109	/
	DSI1		Right Cheek	0	4182	836.4	0.04	0.095	24.49	25.50	1.262	0.120	/
	DSI1		Right Tilt	0	4182	836.4	-0.08	0.083	24.49	25.50	1.262	0.105	/
<b>Hotspot</b>													
ANT4	DSI4	RMC	Front Side	10	4182	836.4	0.17	0.222	23.29	24.50	1.321	0.293	/
	DSI4		Back Side	10	4182	836.4	-0.11	0.329	23.29	24.50	1.321	<b>0.435</b>	12#
	DSI4		Right Edge	10	4182	836.4	-0.08	0.112	23.29	24.50	1.321	0.148	/
	DSI4		Top Edge	10	4182	836.4	-0.16	0.201	23.29	24.50	1.321	0.266	/
ANT1	DSI4	RMC	Front Side	10	4182	836.4	0.05	0.131	23.47	24.50	1.268	0.166	/
	DSI4		Back Side	10	4182	836.4	0.17	0.241	23.47	24.50	1.268	0.306	/
	DSI4		Left Edge	10	4182	836.4	-0.05	0.132	23.47	24.50	1.268	0.167	/
	DSI4		Right Edge	10	4182	836.4	-0.05	0.161	24.49	25.50	1.262	0.203	/
	DSI4		Bottom Edge	10	4182	836.4	-0.12	0.195	23.47	24.50	1.268	0.247	/
<b>P-sensor</b>													
ANT4	DSI5	RMC	Front Side	15	4182	836.4	-0.16	0.152	24.12	25.50	1.374	0.209	/
	DSI5		Back Side	15	4182	836.4	0.12	0.201	24.12	25.50	1.374	0.276	/
	DSI5		Right Edge	5	4182	836.4	-0.14	0.161	24.12	25.50	1.374	0.221	/
	DSI5		Top Edge	15	4182	836.4	0.04	0.113	24.12	25.50	1.374	0.155	/
ANT1	DSI5	RMC	Front Side	15	4182	836.4	-0.02	0.142	24.49	25.50	1.262	0.179	/
	DSI5		Back Side	15	4182	836.4	-0.14	0.187	24.49	25.50	1.262	0.236	/
	DSI5		Left Edge	5	4182	836.4	0.19	0.177	24.49	25.50	1.262	0.223	/
	DSI5		Bottom Edge	15	4182	836.4	-0.02	0.085	24.49	25.50	1.262	0.107	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

### 10.6LTE Band 2 (20MHz Bandwidth)

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
<b>Head</b>															
ANT4	DSI1	QPSK	Left Cheek	0	18700	1860	1	MID	0.16	0.230	18.59	19.00	1.099	0.253	/
	DSI1			0	18700	1860	50	MID	-0.15	0.232	18.47	19.00	1.130	0.262	/
	DSI1		Left Tilt	0	18700	1860	1	MID	-0.08	0.304	18.59	19.00	1.099	0.334	/
	DSI1			0	18700	1860	50	MID	0.09	0.306	18.47	19.00	1.130	0.346	/
	DSI1		Right Cheek	0	18700	1860	1	MID	-0.13	0.298	18.59	19.00	1.099	0.328	/
	DSI1			0	18700	1860	50	MID	-0.06	0.298	18.47	19.00	1.130	0.337	/
	DSI1		Right Tilt	0	18700	1860	1	MID	-0.05	0.365	18.59	19.00	1.099	0.401	/
	DSI1			0	18700	1860	50	MID	-0.19	0.367	18.47	19.00	1.130	<b>0.415</b>	13#
ANT1	DSI1	QPSK	Left Cheek	0	18700	1860	1	MID	0.17	0.202	25.08	25.50	1.102	0.223	/
	DSI1			0	18700	1860	50	HIGH	-0.07	0.163	24.02	24.50	1.117	0.182	/
	DSI1		Left Tilt	0	18700	1860	1	MID	-0.18	0.135	25.08	25.50	1.102	0.149	/
	DSI1			0	18700	1860	50	HIGH	-0.11	0.121	24.02	24.50	1.117	0.135	/
	DSI1		Right Cheek	0	18700	1860	1	MID	-0.04	0.141	25.08	25.50	1.102	0.155	/
	DSI1			0	18700	1860	50	HIGH	0.17	0.113	24.02	24.50	1.117	0.126	/
	DSI1		Right Tilt	0	18700	1860	1	MID	-0.12	0.126	25.08	25.50	1.102	0.139	/
	DSI1			0	18700	1860	50	HIGH	0.09	0.095	24.02	24.50	1.117	0.106	/
<b>Hotspot</b>															
ANT4	DSI4	QPSK	Front Side	10	18700	1860	1	MID	0.19	0.088	19.86	20.00	1.033	0.091	/
	DSI4			10	18700	1860	50	MID	-0.01	0.083	19.75	20.00	1.059	0.088	/
	DSI4		Back Side	10	18700	1860	1	MID	-0.19	0.302	19.86	20.00	1.033	0.312	/
	DSI4			10	18700	1860	50	MID	0.09	0.281	19.75	20.00	1.059	0.298	/
	DSI4		Right Edge	10	18700	1860	1	MID	0.07	0.121	19.86	20.00	1.033	0.125	/
	DSI4			10	18700	1860	50	MID	0.16	0.088	19.75	20.00	1.059	0.093	/
	DSI4		Top Edge	10	18700	1860	1	MID	0.09	0.242	19.86	20.00	1.033	0.250	/
	DSI4			10	18700	1860	50	MID	0.04	0.255	19.75	20.00	1.059	0.270	/
ANT1	DSI4	QPSK	Front Side	10	18700	1860	1	MID	0.15	0.131	18.83	19.00	1.040	0.136	/
	DSI4			10	18700	1860	50	HIGH	0.15	0.128	18.70	19.00	1.072	0.137	/
	DSI4		Back Side	10	18700	1860	1	MID	0.04	0.411	18.83	19.00	1.040	0.427	/
	DSI4			10	18700	1860	50	HIGH	-0.18	0.416	18.70	19.00	1.072	0.446	/
	DSI4		Left Edge	10	18700	1860	1	MID	-0.06	0.306	18.83	19.00	1.040	0.318	/
	DSI4			10	18700	1860	50	HIGH	0.06	0.262	18.70	19.00	1.072	0.281	/
	DSI5		Right Edge	10	18700	1860	1	MID	0.03	0.163	25.08	25.50	1.102	0.180	/
	DSI5			10	18700	1860	50	HIGH	0.04	0.122	24.02	24.50	1.117	0.136	/
	DSI4		Bottom Edge	10	18700	1860	1	MID	-0.08	0.443	18.83	19.00	1.040	0.461	/
	DSI4			10	18700	1860	50	HIGH	0.03	0.464	18.70	19.00	1.072	<b>0.497</b>	14#
<b>P-Sensor</b>															

ANT4	DSI5	QPSK	Front Side	15	18700	1860	1	MID	-0.15	0.116	24.99	25.50	1.125	0.130	/
	DSI5			15	18700	1860	50	MID	-0.06	0.121	23.92	24.50	1.143	0.138	/
	DSI5		Back Side	15	18700	1860	1	MID	-0.07	0.365	24.99	25.50	1.125	0.410	/
	DSI5			15	18700	1860	50	MID	0.17	0.372	23.92	24.50	1.143	0.425	/
	DSI5		Right Edge	5	18700	1860	1	MID	0.06	0.243	24.99	25.50	1.125	0.273	/
	DSI5			5	18700	1860	50	MID	0.00	0.193	23.92	24.50	1.143	0.221	/
	DSI5		Top Edge	15	18700	1860	1	MID	-0.19	0.332	24.99	25.50	1.125	0.373	/
	DSI5			15	18700	1860	50	MID	-0.07	0.321	23.92	24.50	1.143	0.367	/
ANT1	DSI5	QPSK	Front Side	15	18700	1860	1	MID	0.11	0.323	25.08	25.50	1.102	0.356	/
	DSI5			15	18700	1860	50	HIGH	0.01	0.289	24.02	24.50	1.117	0.323	/
	DSI5		Back Side	15	18700	1860	1	MID	0.01	0.926	25.08	25.50	1.102	1.020	/
	DSI5			15	18700	1860	50	HIGH	-0.02	0.723	24.02	24.50	1.117	0.807	/
	DSI5		Left Edge	5	18700	1860	1	MID	-0.17	0.633	25.08	25.50	1.102	0.697	/
	DSI5			5	18700	1860	50	HIGH	0.09	0.515	24.02	24.50	1.117	0.575	/
	DSI5		Bottom Edge	15	18700	1860	1	MID	-0.17	0.944	25.08	25.50	1.102	1.040	/
	DSI5			15	18900	1880	1	MID	0.03	0.942	25.06	25.50	1.107	1.042	/
	DSI5			15	19100	1900	1	MID	0.04	0.923	25.00	25.50	1.122	1.036	/
	DSI5			15	18700	1860	50	HIGH	-0.02	0.874	24.02	24.50	1.117	0.976	/
	DSI5			15	18900	1880	50	HIGH	-0.06	0.941	24.01	24.50	1.119	1.053	/
	DSI5			15	19100	1900	50	HIGH	0.09	0.922	23.99	24.50	1.125	1.037	/
	DSI5			15	18700	1860	100	LOW	0.11	0.823	23.83	24.50	1.167	0.960	/
	DSI5			15	18900	1880	100	LOW	0.03	0.811	23.98	24.50	1.127	0.914	/
DSI5	15	19100	1900	100	LOW	-0.07	0.845	23.89	24.50	1.151	0.972	/			
Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10 g Report SAR (W/kg)	Meas. No.
<b>Specific</b>															
ANT1	DSI4	QPSK	Back Side	0	18700	1860	1	MID	0.19	0.982	18.83	19.00	1.040	<b>1.021</b>	15#
	DSI4			0	18700	1860	50	HIGH	0.17	0.923	18.70	19.00	1.072	0.989	/
	DSI4		Bottom Edge	0	18700	1860	1	MID	0.06	0.810	18.83	19.00	1.040	0.842	/
	DSI4			0	18700	1860	50	HIGH	0.08	0.818	18.70	19.00	1.072	0.877	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

### 10.7LTE Band 4 (20MHz Bandwidth)

Antenna	Power Reduction state	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
<b>Head</b>															
ANT4	DS11	QPSK	Left Cheek	0	20050	1720	1	MID	-0.13	0.323	20.69	21.00	1.074	0.347	/
	DS11			0	20050	1720	50	HIGH	0.12	0.326	20.55	21.00	1.109	0.362	/
	DS11		Left Tilt	0	20050	1720	1	MID	0.13	0.265	20.69	21.00	1.074	0.285	/
	DS11			0	20050	1720	50	HIGH	0.18	0.254	20.55	21.00	1.109	0.282	/
	DS11		Right Cheek	0	20050	1720	1	MID	-0.03	0.411	20.69	21.00	1.074	0.441	/
	DS11			0	20050	1720	50	HIGH	0.05	0.427	20.55	21.00	1.109	<b>0.474</b>	16#
	DS11		Right Tilt	0	20050	1720	1	MID	-0.14	0.332	20.69	21.00	1.074	0.357	/
	DS11			0	20050	1720	50	HIGH	0.17	0.321	20.55	21.00	1.109	0.356	/
ANT1	DS11	QPSK	Left Cheek	0	20175	1732.5	1	MID	0.04	0.106	25.25	25.50	1.059	0.112	/
	DS11			0	20175	1732.5	50	MID	0.00	0.082	24.16	24.50	1.081	0.089	/
	DS11		Left Tilt	0	20175	1732.5	1	MID	-0.08	0.061	25.25	25.50	1.059	0.065	/
	DS11			0	20175	1732.5	50	MID	0.07	0.041	24.16	24.50	1.081	0.044	/
	DS11		Right Cheek	0	20175	1732.5	1	MID	0.10	0.071	25.25	25.50	1.059	0.075	/
	DS11			0	20175	1732.5	50	MID	-0.19	0.041	24.16	24.50	1.081	0.044	/
	DS11		Right Tilt	0	20175	1732.5	1	MID	0.14	0.055	25.25	25.50	1.059	0.058	/
	DS11			0	20175	1732.5	50	MID	0.05	0.043	24.16	24.50	1.081	0.047	/
<b>Hotspot</b>															
ANT4	DS14	QPSK	Front Side	10	20175	1732.5	1	MID	0.05	0.101	19.88	20.00	1.028	0.104	/
	DS14			10	20175	1732.5	50	HIGH	-0.10	0.103	19.78	20.00	1.052	0.108	/
	DS14		Back Side	10	20175	1732.5	1	MID	0.09	0.221	19.88	20.00	1.028	0.227	/
	DS14			10	20175	1732.5	50	HIGH	-0.15	0.216	19.78	20.00	1.052	0.227	/
	DS14		Right Edge	10	20175	1732.5	1	MID	-0.19	0.232	19.88	20.00	1.028	0.238	/
	DS14			10	20175	1732.5	50	HIGH	0.08	0.206	19.78	20.00	1.052	0.217	/
	DS14		Top Edge	10	20175	1732.5	1	MID	0.13	0.096	19.88	20.00	1.028	0.099	/
	DS14			10	20175	1732.5	50	HIGH	-0.13	0.098	19.78	20.00	1.052	0.103	/
ANT1	DS14	QPSK	Front Side	10	20175	1732.5	1	MID	-0.09	0.135	18.92	19.00	1.019	0.138	/
	DS14			10	20175	1732.5	50	MID	-0.07	0.146	18.76	19.00	1.057	0.154	/
	DS14		Back Side	10	20175	1732.5	1	MID	0.06	0.421	18.92	19.00	1.019	0.429	/
	DS14			10	20175	1732.5	50	MID	0.14	0.431	18.76	19.00	1.057	0.455	/
	DS14		Left Edge	10	20175	1732.5	1	MID	0.13	0.193	18.92	19.00	1.019	0.197	/
	DS14			10	20175	1732.5	50	MID	-0.11	0.133	18.76	19.00	1.057	0.141	/
	DS15		Right Edge	10	20175	1732.5	1	MID	0.14	0.127	25.25	25.50	1.059	0.135	/
	DS15			10	20175	1732.5	50	MID	-0.17	0.101	24.16	24.50	1.081	0.109	/
	DS14		Bottom Edge	10	20175	1732.5	1	MID	-0.18	0.531	18.92	19.00	1.019	0.541	/
	DS14			10	20175	1732.5	50	MID	0.01	0.538	18.76	19.00	1.057	<b>0.569</b>	17#
<b>P-Sensor</b>															



ANT4	DSI5	QPSK	Front Side	15	20175	1732.5	1	MID	-0.18	0.158	25.09	25.50	1.099	0.174	/
	DSI5			15	20175	1732.5	50	HIGH	0.12	0.131	24.05	24.50	1.109	0.145	/
	DSI5		Back Side	15	20175	1732.5	1	MID	0.16	0.354	25.09	25.50	1.099	0.389	/
	DSI5			15	20175	1732.5	50	HIGH	-0.19	0.323	24.05	24.50	1.109	0.358	/
	DSI5		Right Edge	5	20175	1732.5	1	MID	0.13	0.441	25.09	25.50	1.099	0.485	/
	DSI5			5	20175	1732.5	50	HIGH	0.00	0.363	24.05	24.50	1.109	0.403	/
	DSI5		Top Edge	15	20175	1732.5	1	MID	0.08	0.192	25.09	25.50	1.099	0.211	/
	DSI5			15	20175	1732.5	50	HIGH	-0.11	0.153	24.05	24.50	1.109	0.170	/
ANT1	DSI5	QPSK	Front Side	15	20175	1732.5	1	MID	-0.05	0.226	25.25	25.50	1.059	0.239	/
	DSI5			15	20175	1732.5	50	MID	0.12	0.211	24.16	24.50	1.081	0.228	/
	DSI5		Back Side	15	20175	1732.5	1	MID	-0.18	0.974	25.25	25.50	1.059	1.032	/
	DSI5			15	20050	1720	1	MID	0.03	0.923	25.21	25.50	1.069	0.987	/
	DSI5			15	20300	1745	1	MID	-0.15	0.932	25.17	25.50	1.079	1.006	/
	DSI5			15	20175	1732.5	50	MID	0.04	0.733	24.16	24.50	1.081	0.793	/
	DSI5			15	20175	1732.5	100	LOW	-0.11	0.721	24.07	24.50	1.104	0.796	/
	DSI5		Left Edge	5	20175	1732.5	1	MID	0.12	0.330	25.25	25.50	1.059	0.350	/
	DSI5			5	20175	1732.5	50	MID	-0.10	0.282	24.16	24.50	1.081	0.305	/
	DSI5		Bottom Edge	15	20175	1732.5	1	MID	0.01	0.989	25.25	25.50	1.059	1.048	/
	DSI5			15	20050	1720	1	MID	0.01	0.974	25.21	25.50	1.069	1.041	/
	DSI5			15	20300	1745	1	MID	-0.03	0.941	25.17	25.50	1.079	1.015	/
	DSI5			15	20175	1732.5	50	MID	0.04	0.853	24.16	24.50	1.081	0.922	/
	DSI5			15	20050	1720	50	MID	-0.08	0.833	24.14	24.50	1.086	0.905	/
	DSI5			15	20300	1745	50	MID	0.07	0.821	24.14	24.50	1.086	0.892	/
	DSI5		15	20175	1732.5	100	LOW	0.07	0.751	24.07	24.50	1.104	0.829	/	
Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas. SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10 g Report SAR (W/kg)	Meas. No.
<b>Specific</b>															
ANT1	DSI4	QPSK	Back Side	0	20175	1732.5	1	MID	-0.13	0.865	18.92	19.00	1.019	<b>0.881</b>	18#
	DSI4			0	20175	1732.5	50	MID	0.14	0.828	18.76	19.00	1.057	0.875	/
	DSI4		Bottom Edge	0	20175	1732.5	1	MID	-0.06	0.815	18.92	19.00	1.019	0.830	/
	DSI4			0	20175	1732.5	50	MID	-0.11	0.825	18.76	19.00	1.057	0.872	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

### 10.8LTE Band 5 (10MHz Bandwidth)

Antenna	Power Reduction state	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
<b>Head</b>															
ANT4	DSI1	QPSK	Left Cheek	0	20525	836.5	1	MID	-0.16	0.355	20.78	21.50	1.180	0.419	/
	DSI1			0	20525	836.5	25	MID	-0.05	0.354	20.71	21.50	1.199	0.425	/
	DSI1		Left Tilt	0	20525	836.5	1	MID	-0.05	0.302	20.78	21.50	1.180	0.356	/
	DSI1			0	20525	836.5	25	MID	-0.01	0.311	20.71	21.50	1.199	0.373	/
	DSI1		Right Cheek	0	20525	836.5	1	MID	-0.15	0.354	20.78	21.50	1.180	0.418	/
	DSI1			0	20525	836.5	25	MID	-0.08	0.356	20.71	21.50	1.199	<b>0.427</b>	19#
	DSI1		Right Tilt	0	20525	836.5	1	MID	0.08	0.302	20.78	21.50	1.180	0.356	/
	DSI1			0	20525	836.5	25	MID	0.01	0.295	20.71	21.50	1.199	0.354	/
ANT1	DSI1	QPSK	Left Cheek	0	20525	836.5	1	MID	-0.11	0.188	25.09	25.50	1.099	0.207	/
	DSI1			0	20525	836.5	25	MID	-0.13	0.153	24.02	24.50	1.117	0.171	/
	DSI1		Left Tilt	0	20525	836.5	1	MID	-0.07	0.053	25.09	25.50	1.099	0.058	/
	DSI1			0	20525	836.5	25	MID	0.19	0.061	24.02	24.50	1.117	0.068	/
	DSI1		Right Cheek	0	20525	836.5	1	MID	0.09	0.143	25.09	25.50	1.099	0.157	/
	DSI1			0	20525	836.5	25	MID	0.06	0.121	24.02	24.50	1.117	0.135	/
	DSI1		Right Tilt	0	20525	836.5	1	MID	-0.01	0.071	25.09	25.50	1.099	0.078	/
	DSI1			0	20525	836.5	25	MID	0.09	0.055	24.02	24.50	1.117	0.061	/
<b>Hotspot</b>															
ANT4	DSI4	QPSK	Front Side	10	20525	836.5	1	MID	0.03	0.233	24.78	25.50	1.180	0.275	/
	DSI4			10	20525	836.5	25	MID	-0.08	0.152	23.71	24.50	1.199	0.182	/
	DSI4		Back Side	10	20525	836.5	1	MID	0.01	0.332	24.78	25.50	1.180	<b>0.392</b>	20#
	DSI4			10	20525	836.5	25	MID	-0.19	0.255	23.71	24.50	1.199	0.306	/
	DSI4		Right Edge	10	20525	836.5	1	MID	0.07	0.093	24.78	25.50	1.180	0.110	/
	DSI4			10	20525	836.5	25	MID	0.18	0.071	23.71	24.50	1.199	0.085	/
	DSI4		Top Edge	10	20525	836.5	1	MID	-0.01	0.285	24.78	25.50	1.180	0.336	/
	DSI4			10	20525	836.5	25	MID	-0.13	0.244	23.71	24.50	1.199	0.293	/
ANT1	DSI4	QPSK	Front Side	10	20525	836.5	1	MID	0.03	0.116	24.12	24.50	1.091	0.127	/
	DSI4			10	20525	836.5	25	MID	0.14	0.121	24.05	24.50	1.109	0.134	/
	DSI4		Back Side	10	20525	836.5	1	MID	-0.07	0.236	24.12	24.50	1.091	0.258	/
	DSI4			10	20525	836.5	25	MID	0.12	0.233	24.05	24.50	1.109	0.258	/
	DSI4		Left Edge	10	20525	836.5	1	MID	0.14	0.105	24.12	24.50	1.091	0.115	/
	DSI4			10	20525	836.5	25	MID	-0.06	0.091	24.05	24.50	1.109	0.101	/
	DSI5		Right Edge	10	20525	836.5	1	MID	0.03	0.149	25.09	25.50	1.099	0.164	/
	DSI5			10	20525	836.5	25	MID	0.19	0.119	24.02	24.50	1.117	0.133	/
	DSI4		Bottom Edge	10	20525	836.5	1	MID	-0.11	0.144	24.12	24.50	1.091	0.157	/
	DSI4			10	20525	836.5	25	MID	0.16	0.123	24.05	24.50	1.109	0.136	/
<b>P-Sensor</b>															

ANT1	DSI5	QPSK	Front Side	15	20525	836.5	1	MID	-0.02	0.172	25.09	25.50	1.099	0.189	/
	DSI5			15	20525	836.5	25	MID	0.09	0.136	24.02	24.50	1.117	0.152	/
	DSI5		Back Side	15	20525	836.5	1	MID	-0.02	0.235	25.09	25.50	1.099	0.258	/
	DSI5			15	20525	836.5	25	MID	-0.01	0.185	24.02	24.50	1.117	0.207	/
	DSI5		Left Edge	5	20525	836.5	1	MID	0.01	0.162	25.09	25.50	1.099	0.178	/
	DSI5			5	20525	836.5	25	MID	0.12	0.130	24.02	24.50	1.117	0.145	/
	DSI5		Bottom Edge	15	20525	836.5	1	MID	0.01	0.106	25.09	25.50	1.099	0.116	/
	DSI5			15	20525	836.5	25	MID	0.03	0.085	24.02	24.50	1.117	0.095	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

### 10.9LTE Band 7 (20MHz Bandwidth)

Antenna	Power Reduction state	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
<b>Head</b>															
ANT4	DSI1	QPSK	Left Cheek	0	21100	2535	1	HIGH	0.18	0.231	18.45	18.50	1.012	0.234	/
	DSI1			0	21100	2535	50	MID	0.14	0.232	18.48	18.50	1.005	0.233	/
	DSI1		Left Tilt	0	21100	2535	1	HIGH	0.05	0.340	18.45	18.50	1.012	0.344	/
	DSI1			0	21100	2535	50	MID	0.11	0.339	18.48	18.50	1.005	0.341	/
	DSI1		Right Cheek	0	21100	2535	1	HIGH	0.11	0.309	18.45	18.50	1.012	0.313	/
	DSI1			0	21100	2535	50	MID	-0.15	0.315	18.48	18.50	1.005	0.316	/
	DSI1		Right Tilt	0	21100	2535	1	HIGH	0.05	0.402	18.45	18.50	1.012	0.407	/
	DSI1			0	21100	2535	50	MID	-0.04	0.409	18.48	18.50	1.005	0.411	21#
ANT1	DSI1	QPSK	Left Cheek	0	21100	2535	1	MID	0.19	0.051	24.69	25.50	1.205	0.061	/
	DSI1			0	21100	2535	50	MID	-0.14	0.043	23.64	24.50	1.219	0.052	/
	DSI1		Left Tilt	0	21100	2535	1	MID	0.15	0.022	24.69	25.50	1.205	0.027	/
	DSI1			0	21100	2535	50	MID	0.14	0.016	23.64	24.50	1.219	0.020	/
	DSI1		Right Cheek	0	21100	2535	1	MID	0.12	0.035	24.69	25.50	1.205	0.042	/
	DSI1			0	21100	2535	50	MID	0.11	0.031	23.64	24.50	1.219	0.038	/
	DSI1		Right Tilt	0	21100	2535	1	MID	0.00	0.048	24.69	25.50	1.205	0.058	/
	DSI1			0	21100	2535	50	MID	-0.04	0.032	23.64	24.50	1.219	0.039	/
<b>Hotspot</b>															
ANT4	DSI4	QPSK	Front Side	10	21100	2535	1	HIGH	0.06	0.088	18.45	18.50	1.012	0.089	/
	DSI4			10	21100	2535	50	MID	-0.12	0.083	18.48	18.50	1.005	0.083	/
	DSI4		Back Side	10	21100	2535	1	HIGH	-0.14	0.203	18.45	18.50	1.012	0.205	/
	DSI4			10	21100	2535	50	MID	-0.18	0.198	18.48	18.50	1.005	0.199	/
	DSI4		Right Edge	10	21100	2535	1	HIGH	0.02	0.266	18.45	18.50	1.012	0.269	/
	DSI4			10	21100	2535	50	MID	0.06	0.223	18.48	18.50	1.005	0.224	/
	DSI4		Top Edge	10	21100	2535	1	HIGH	-0.14	0.212	18.45	18.50	1.012	0.214	/
	DSI4			10	21100	2535	50	MID	-0.08	0.206	18.48	18.50	1.005	0.207	/
ANT1	DSI4	QPSK	Front Side	10	21100	2535	1	MID	-0.11	0.134	17.75	18.50	1.189	0.159	/

	DSI4		Back Side	10	21100	2535	50	MID	0.07	0.131	17.74	18.50	1.191	0.156	/
	DSI4			10	21100	2535	1	MID	0.03	0.331	17.75	18.50	1.189	0.393	/
	DSI4			10	21100	2535	50	MID	0.08	0.325	17.74	18.50	1.191	0.387	/
	DSI4		Left Edge	10	21100	2535	1	MID	0.05	0.063	17.75	18.50	1.189	0.075	/
	DSI4			10	21100	2535	50	MID	0.13	0.055	17.74	18.50	1.191	0.066	/
	DSI5		Right Edge	10	21100	2510	1	MID	0.17	0.204	24.69	25.50	1.205	0.246	/
	DSI5			10	21100	2535	50	MID	0.08	0.183	23.64	24.50	1.219	0.223	/
	DSI4		Bottom Edge	10	21100	2535	1	MID	0.10	0.464	17.75	18.50	1.189	0.551	/
	DSI4			10	21100	2535	50	MID	0.08	0.480	17.74	18.50	1.191	<b>0.572</b>	22#

**P-Sensor**

ANT4	DSI5	QPSK	Front Side	15	21100	2510	1	HIGH	-0.02	0.141	25.49	25.50	1.002	0.141	/
	DSI5			15	21100	2535	50	MID	0.10	0.135	24.49	24.50	1.002	0.135	/
	DSI5		Back Side	15	21100	2510	1	HIGH	-0.10	0.355	25.49	25.50	1.002	0.356	/
	DSI5			15	21100	2535	50	MID	0.18	0.323	24.49	24.50	1.002	0.324	/
	DSI5		Right Edge	5	21100	2510	1	HIGH	0.10	0.483	25.49	25.50	1.002	0.484	/
	DSI5			5	21100	2535	50	MID	0.03	0.410	24.49	24.50	1.002	0.411	/
	DSI5		Top Edge	15	21100	2510	1	HIGH	-0.07	0.368	25.49	25.50	1.002	0.369	/
	DSI5			15	21100	2535	50	MID	-0.10	0.382	24.49	24.50	1.002	0.383	/
ANT1	DSI5	QPSK	Front Side	15	21100	2535	1	MID	0.12	0.323	24.69	25.50	1.205	0.389	/
	DSI5			15	21100	2535	50	MID	0.05	0.241	23.64	24.50	1.219	0.294	/
	DSI5		Back Side	15	21100	2535	1	MID	-0.02	0.746	24.69	25.50	1.205	0.899	/
	DSI5			15	21100	2535	50	MID	-0.04	0.622	23.64	24.50	1.219	0.758	/
	DSI5		Left Edge	5	21100	2510	1	MID	0.02	0.124	24.69	25.50	1.205	0.149	/
	DSI5			5	21100	2535	50	MID	-0.19	0.111	23.64	24.50	1.219	0.135	/
	DSI5		Bottom Edge	15	21100	2535	1	MID	-0.16	0.902	24.69	25.50	1.205	1.087	/
	DSI5			15	20850	2510	1	MID	0.03	0.885	24.62	25.50	1.225	1.084	/
	DSI5			15	21350	2560	1	MID	0.02	0.874	24.61	25.50	1.227	1.073	/
	DSI5			15	21100	2535	50	MID	-0.18	0.864	23.64	24.50	1.219	1.053	/
	DSI5			15	20850	2510	50	MID	-0.17	0.858	23.49	24.50	1.262	1.083	/
	DSI5			15	21350	2560	50	MID	0.16	0.847	23.55	24.50	1.245	1.054	/
	DSI5			15	21100	2535	100	LOW	-0.18	0.823	23.56	24.50	1.242	1.022	/
	DSI5			15	20850	2510	100	LOW	0.02	0.844	23.47	24.50	1.268	1.070	/
DSI5	15	21350	2560	100	LOW	0.03	0.836	23.33	24.50	1.309	1.094	/			

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10 g Report SAR (W/kg)	Meas. No.
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**Specific**

ANT1	DSI4	QPSK	Back Side	0	21100	2535	1	MID	0.06	0.959	17.75	18.50	1.189	1.140	/	
	DSI4			0	21100	2535	50	MID	0.02	0.963	17.74	18.50	1.191	1.147	/	
	DSI4		Edge	Bottom	0	21100	2535	1	MID	-0.19	1.260	17.75	18.50	1.189	<b>1.498</b>	23#
	DSI4			0	21100	2535	50	MID	0.17	1.150	17.74	18.50	1.191	1.370	/	

Note: Refer to ANNEX C for the detailed test data for each test configuration.

### 10.10 LTE Band 7 Worse case for CA Test

Antenna	Power Reduction state	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Head-CA															
ANT4	DSI1	QPSK	Right Tilt	0	21100+21298	2535+2554.8	1+1	High+Low	0.02	0.383	18.26	18.50	1.057	<b>0.405</b>	41#
	DSI1			0	20850+21048	2510+2529.8	1+1	High+Low	-0.12	0.365	18.23	18.50	1.064	0.388	/
	DSI1			0	21350+21152	2560+2540.2	1+1	Low+High	0.15	0.344	18.32	18.50	1.042	0.359	/
Hotspot-CA															
ANT1	DSI4	QPSK	Bottom Edge	10	21100+21298	2535+2554.8	1+1	High+Low	-0.16	0.420	17.52	18.50	1.253	<b>0.526</b>	42#
	DSI4			10	20850+21048	2510+2529.8	1+1	High+Low	0.00	0.411	17.46	18.50	1.271	0.522	/
	DSI4			10	21350+21152	2560+2540.2	1+1	Low+High	0.18	0.405	17.63	18.50	1.222	0.495	/
Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10 g Report SAR (W/kg)	Meas. No.
Specific															
ANT1	DSI4	QPSK	Bottom Edge	0	21100+21298	2535+2554.8	1+1	High+Low	0.00	1.190	17.52	18.50	1.253	<b>1.491</b>	43#
	DSI4			0	20850+21048	2510+2529.8	1+1	High+Low	0.03	1.170	17.46	18.50	1.271	1.487	/
	DSI4			0	21350+21152	2560+2540.2	1+1	Low+High	0.02	1.120	17.63	18.50	1.222	1.368	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

### 10.11 LTE Band 38 (20MHz Bandwidth)

Antenna	Power Reduction state	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Head															
ANT4	DSI1	QPSK	Left Cheek	0	38000	2595	1	MID	-0.19	0.131	20.94	21.50	1.138	0.149	/
	DSI1			0	38000	2595	50	MID	-0.05	0.125	20.84	21.50	1.164	0.146	/
	DSI1		Left Tilt	0	38000	2595	1	MID	-0.17	0.171	20.94	21.50	1.138	0.195	/
	DSI1			0	38000	2595	50	MID	-0.12	0.162	20.84	21.50	1.164	0.189	/
	DSI1		Right Cheek	0	38000	2595	1	MID	0.02	0.183	20.94	21.50	1.138	0.208	/
	DSI1			0	38000	2595	50	MID	0.06	0.181	20.84	21.50	1.164	0.211	/
	DSI1		Right Tilt	0	38000	2595	1	MID	0.01	0.257	20.94	21.50	1.138	<b>0.292</b>	24#
	DSI1			0	38000	2595	50	MID	0.01	0.221	20.84	21.50	1.164	0.257	/
ANT1	DSI1	QPSK	Left Cheek	0	38150	2610	1	MID	-0.16	0.093	24.80	25.50	1.175	0.109	/
	DSI1			0	38000	2595	50	MID	-0.16	0.071	23.76	24.50	1.186	0.084	/
	DSI1		Left Tilt	0	38150	2610	1	MID	-0.13	0.048	24.80	25.50	1.175	0.056	/
	DSI1			0	38000	2595	50	MID	-0.11	0.032	23.76	24.50	1.186	0.038	/
	DSI1		Right Cheek	0	38150	2610	1	MID	-0.16	0.072	24.80	25.50	1.175	0.085	/

	DSI1			0	38000	2595	50	MID	0.04	0.053	23.76	24.50	1.186	0.063	/
	DSI1		Right Tilt	0	38150	2610	1	MID	-0.01	0.081	24.80	25.50	1.175	0.095	/
	DSI1			0	38000	2595	50	MID	-0.10	0.072	23.76	24.50	1.186	0.085	/
<b>Hotspot</b>															
ANT4	DSI4	QPSK	Front Side	10	38000	2595	1	MID	-0.12	0.041	20.94	21.50	1.138	0.047	/
	DSI4			10	38000	2595	50	MID	-0.12	0.042	20.84	21.50	1.164	0.049	/
	DSI4		Back Side	10	38000	2595	1	MID	0.06	0.125	20.94	21.50	1.138	0.142	/
	DSI4			10	38000	2595	50	MID	-0.11	0.123	20.84	21.50	1.164	0.143	/
	DSI4		Right Edge	10	38000	2595	1	MID	0.01	0.161	20.94	21.50	1.138	0.183	/
	DSI4			10	38000	2595	50	MID	-0.06	0.134	20.84	21.50	1.164	0.156	/
	DSI4		Top Edge	10	38000	2595	1	MID	-0.17	0.142	20.94	21.50	1.138	0.162	/
	DSI4			10	38000	2595	50	MID	0.06	0.141	20.84	21.50	1.164	0.164	/
ANT1	DSI4	QPSK	Front Side	10	38150	2610	1	MID	0.14	0.122	20.96	21.50	1.132	0.138	/
	DSI4			10	37850	2580	50	MID	0.02	0.132	20.85	21.50	1.161	0.153	/
	DSI4		Back Side	10	38150	2610	1	MID	0.01	0.344	20.96	21.50	1.132	0.390	/
	DSI4			10	37850	2580	50	MID	0.09	0.358	20.85	21.50	1.161	0.416	/
	DSI4		Left Edge	10	38150	2610	1	MID	0.11	0.112	20.96	21.50	1.132	0.127	/
	DSI4			10	38000	2595	50	MID	0.16	0.062	20.85	21.50	1.161	0.072	/
	DSI5		Right Edge	10	38150	2610	1	MID	0.03	0.103	24.80	25.50	1.175	0.121	/
	DSI5			10	38000	2580	50	MID	-0.01	0.083	23.76	24.50	1.186	0.098	/
	DSI4		Bottom Edge	10	38150	2610	1	MID	-0.16	0.511	20.96	21.50	1.132	0.579	/
	DSI4			10	37850	2580	50	MID	0.02	0.523	20.85	21.50	1.161	<b>0.607</b>	25#
<b>P-Sensor</b>															
ANT4	DSI5	QPSK	Front Side	15	38000	2610	1	MID	-0.11	0.057	24.87	25.50	1.156	0.066	/
	DSI5			15	38000	2580	50	MID	-0.11	0.044	23.85	24.50	1.161	0.051	/
	DSI5		Back Side	15	38000	2610	1	MID	-0.05	0.138	24.87	25.50	1.156	0.160	/
	DSI5			15	38000	2580	50	MID	0.19	0.108	23.85	24.50	1.161	0.125	/
	DSI5		Right Edge	5	38000	2610	1	MID	-0.12	0.333	24.87	25.50	1.156	0.385	/
	DSI5			5	38000	2580	50	MID	-0.09	0.277	23.85	24.50	1.161	0.322	/
	DSI5		Top Edge	15	38000	2610	1	MID	-0.10	0.161	24.87	25.50	1.156	0.186	/
	DSI5			15	38000	2580	50	MID	0.14	0.129	23.85	24.50	1.161	0.150	/
ANT1	DSI5	QPSK	Front Side	15	38150	2610	1	MID	0.17	0.131	24.80	25.50	1.175	0.154	/
	DSI5			15	38000	2595	50	MID	0.10	0.118	23.76	24.50	1.186	0.140	/
	DSI5		Back Side	15	38150	2610	1	MID	0.02	0.387	24.80	25.50	1.175	0.455	/
	DSI5			15	38000	2595	50	MID	0.13	0.306	23.76	24.50	1.186	0.363	/
	DSI5		Left Edge	5	38150	2610	1	MID	0.02	0.183	24.80	25.50	1.175	0.215	/
	DSI5			5	38000	2580	50	MID	-0.10	0.134	23.76	24.50	1.186	0.159	/
	DSI5		Bottom Edge	15	38150	2610	1	MID	-0.06	0.635	24.80	25.50	1.175	0.746	/
	DSI5			15	38000	2595	50	MID	-0.02	0.457	23.76	24.50	1.186	0.542	/
Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10 g Report SAR (W/kg)	Meas. No.

Specific															
ANT1	DSI4	QPSK	Bottom Edge	0	38150	2610	1	MID	0.12	1.180	20.96	21.50	1.132	1.336	/
	DSI4			0	37850	2580	50	MID	0.15	1.270	20.85	21.50	1.161	<b>1.475</b>	26#

Note: Refer to ANNEX C for the detailed test data for each test configuration.

### 10.12 LTE Band 38 Worse case for CA Test

Antenna	Power Reduction state	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
<b>Head-CA</b>															
ANT4	DSI1	QPSK	Right Tilt	0	38099+37901	2604.9+2624.7	1+1	High+Low	0.06	0.200	20.63	21.50	1.222	<b>0.244</b>	44#
	DSI1			0	37850+38048	2580+2598.8	1+1	High+Low	-0.08	0.162	20.66	21.50	1.213	0.197	/
	DSI1			0	38150+37952	2610+2590.2	1+1	Low+High	0.17	0.185	20.55	21.50	1.245	0.230	/
<b>Hotspot-CA</b>															
ANT1	DSI4	QPSK	Bottom Edge	10	38099+37901	2604.9+2624.7	1+1	High+Low	0.03	0.477	20.81	21.50	1.172	0.559	/
	DSI4			10	37850+38048	2580+2598.8	1+1	High+Low	0.09	0.481	20.74	21.50	1.191	<b>0.573</b>	45#
	DSI4			10	38150+37952	2610+2590.2	1+1	Low+High	-0.08	0.456	20.63	21.50	1.222	0.557	/
Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10 g Report SAR (W/kg)	Meas. No.
<b>Specific</b>															
ANT1	DSI4	QPSK	Bottom Edge	0	38099+37901	2604.9+2624.7	1+1	High+Low	0.08	1.020	20.81	21.50	1.172	1.196	/
	DSI4			0	37850+38048	2580+2598.8	1+1	High+Low	0.01	1.120	20.74	21.50	1.191	<b>1.334</b>	46#
	DSI4			0	38150+37952	2610+2590.2	1+1	Low+High	0.04	1.050	20.63	21.50	1.222	1.283	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

### 10.13 LTE Band 41 (20MHz Bandwidth)

Antenna	Power Reduction state	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
<b>Head</b>															
ANT4	DSI1	QPSK	Left Cheek	0	39750	2506	1	MID	0.12	0.247	19.90	20.50	1.148	0.284	/
	DSI1			0	39750	2506	50	MID	0.08	0.251	19.84	20.50	1.164	0.292	/
	DSI1		Left Tilt	0	39750	2506	1	MID	-0.09	0.345	19.90	20.50	1.148	0.396	/
	DSI1			0	39750	2506	50	MID	-0.04	0.339	19.84	20.50	1.164	0.395	/
	DSI1		Right Cheek	0	39750	2506	1	MID	-0.15	0.414	19.90	20.50	1.148	0.475	/
	DSI1			0	39750	2506	50	MID	-0.01	0.420	19.84	20.50	1.164	0.489	/

	DSI1		Right	0	39750	2506	1	MID	-0.07	0.486	19.90	20.50	1.148	<b>0.558</b>	27#
	DSI1		Tilt	0	39750	2506	50	MID	-0.10	0.478	19.84	20.50	1.164	0.556	/
ANT1	DSI1	QPSK	Left	0	39750	2506	1	MID	-0.12	0.041	24.77	25.50	1.183	0.049	/
	DSI1		Cheek	0	39750	2506	50	MID	-0.07	0.037	23.73	24.50	1.194	0.044	/
	DSI1		Left Tilt	0	39750	2506	1	MID	0.00	0.024	24.77	25.50	1.183	0.028	/
	DSI1			0	39750	2506	50	MID	0.12	0.022	23.73	24.50	1.194	0.026	/
	DSI1		Right	0	39750	2506	1	MID	-0.07	0.027	24.77	25.50	1.183	0.032	/
	DSI1		Cheek	0	39750	2506	50	MID	-0.17	0.021	23.73	24.50	1.194	0.025	/
	DSI1		Right	0	39750	2506	1	MID	0.10	0.036	24.77	25.50	1.183	0.043	/
	DSI1		Tilt	0	39750	2506	50	MID	0.02	0.033	23.73	24.50	1.194	0.039	/
	DSI1			0	39750	2506	50	MID	0.02	0.033	23.73	24.50	1.194	0.039	/
<b>Hotspot</b>															
ANT4	DSI4	QPSK	Front	10	40620	2593	1	MID	0.02	0.087	20.91	21.50	1.146	0.100	/
	DSI4		Side	10	40620	2593	50	MID	0.15	0.112	21.03	21.50	1.114	0.125	/
	DSI4		Back	10	40620	2593	1	MID	0.12	0.213	20.91	21.50	1.146	0.244	/
	DSI4		Side	10	40620	2593	50	MID	-0.06	0.288	21.03	21.50	1.114	0.321	/
	DSI4		Right	10	40620	2593	1	MID	-0.09	0.041	20.91	21.50	1.146	0.047	/
	DSI4		Edge	10	40620	2593	50	MID	0.06	0.065	21.03	21.50	1.114	0.072	/
	DSI4		Top	10	40620	2593	1	MID	-0.12	0.243	20.91	21.50	1.146	0.278	/
	DSI4		Edge	10	40620	2593	50	MID	0.00	0.321	21.03	21.50	1.114	0.358	/
ANT1	DSI4	QPSK	Front	10	39750	2506	1	MID	0.01	0.132	21.00	21.50	1.122	0.148	/
	DSI4		Side	10	39750	2506	50	MID	-0.11	0.155	20.86	21.50	1.159	0.180	/
	DSI4		Back	10	39750	2506	1	MID	0.07	0.374	21.00	21.50	1.122	0.420	/
	DSI4		Side	10	39750	2506	50	MID	0.05	0.312	20.86	21.50	1.159	0.362	/
	DSI4		Left	10	39750	2506	1	MID	-0.16	0.043	21.00	21.50	1.122	0.048	/
	DSI4		Edge	10	39750	2506	50	MID	-0.19	0.036	20.86	21.50	1.159	0.042	/
	DSI5		Right	10	39750	2506	1	MID	0.03	0.074	24.77	25.50	1.183	0.088	/
	DSI5		Edge	10	39750	2506	50	MID	0.04	0.062	23.73	24.50	1.194	0.074	/
	DSI4		Bottom	10	39750	2506	1	MID	0.07	0.521	21.00	21.50	1.122	0.585	/
	DSI4		Edge	10	39750	2506	50	MID	0.01	0.533	20.86	21.50	1.159	<b>0.618</b>	28#
<b>P-sensor</b>															
ANT4	DSI5	QPSK	Front	15	41490	2680	1	MID	0.14	0.042	24.85	25.50	1.161	0.049	/
	DSI5		Side	15	39750	2506	50	MID	-0.15	0.094	23.79	24.50	1.178	0.111	/
	DSI5		Back	15	41490	2680	1	MID	-0.15	0.073	24.85	25.50	1.161	0.085	/
	DSI5		Side	15	39750	2506	50	MID	0.07	0.233	23.79	24.50	1.178	0.274	/
	DSI5		Right	5	41490	2680	1	MID	0.08	0.259	24.85	25.50	1.161	0.301	/
	DSI5		Edge	5	39750	2506	50	MID	0.16	0.198	23.79	24.50	1.178	0.233	/
	DSI5		Top	15	41490	2680	1	MID	-0.07	0.112	24.85	25.50	1.161	0.130	/
	DSI5		Edge	15	39750	2506	50	MID	0.07	0.292	23.79	24.50	1.178	0.344	/
ANT1	DSI5	QPSK	Front	15	39750	2506	1	MID	0.04	0.053	24.77	25.50	1.183	0.063	/
	DSI5		Side	15	39750	2506	50	MID	0.13	0.138	23.73	24.50	1.194	0.165	/
	DSI5		Back	15	39750	2506	1	MID	-0.04	0.432	24.77	25.50	1.183	0.511	/
	DSI5		Side	15	39750	2506	50	MID	-0.16	0.350	23.73	24.50	1.194	0.418	/
	DSI5			5	39750	2506	1	MID	-0.11	0.023	24.77	25.50	1.183	0.027	/



Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10 g Report SAR (W/kg)	Meas. No.
	DSI5		Left Edge	5	39750	2506	50	MID	-0.11	0.034	23.73	24.50	1.194	0.041	/
	DSI5		Bottom	15	39750	2506	1	MID	-0.07	0.626	24.77	25.50	1.183	0.741	/
	DSI5		Edge	15	39750	2506	50	MID	-0.09	0.511	23.73	24.50	1.194	0.610	/
<b>Specific</b>															
ANT1	DSI4	QPSK	Bottom	0	39750	2506	1	MID	-0.04	1.390	21.00	21.50	1.122	<b>1.560</b>	29#
	DSI4		Edge	0	39750	2506	50	MID	0.09	1.230	20.86	21.50	1.159	1.425	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

### 10.14 LTE Band 41 Worse case for CA Test

Antenna	Power Reduction state	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
<b>Head-CA</b>															
ANT4	DSI1	QPSK	Right Tilt	0	39750+39948	2506+2505.8	1+1	High+Low	-0.07	0.451	19.77	20.50	1.183	<b>0.534</b>	47#
	DSI1			0	40185+40383	2549.5+2569.3	1+1	High+Low	0.17	0.423	19.66	20.50	1.213	0.513	/
	DSI1			0	40620+40818	2593+2612.8	1+1	High+Low	-0.18	0.411	19.71	20.50	1.199	0.493	/
	DSI1			0	41055+40857	2636.5+2616.7	1+1	Low+High	0.06	0.403	19.61	20.50	1.227	0.495	/
	DSI1			0	41490+41292	2680+2660.2	1+1	Low+High	0.06	0.431	19.65	20.50	1.216	0.524	/
<b>Hotspot-CA</b>															
ANT1	DSI4	QPSK	Bottom Edge	10	39750+39948	2506+2505.8	1+1	High+Low	0.01	0.473	20.78	21.50	1.180	<b>0.558</b>	48#
	DSI4			10	40185+40383	2549.5+2569.3	1+1	High+Low	0.07	0.454	20.82	21.50	1.169	0.531	/
	DSI4			10	40620+40818	2593+2612.8	1+1	High+Low	-0.13	0.463	20.71	21.50	1.199	0.555	/
	DSI4			10	41055+40857	2636.5+2616.7	1+1	Low+High	-0.16	0.435	20.74	21.50	1.191	0.518	/
	DSI4			10	41490+41292	2680+2660.2	1+1	Low+High	-0.08	0.411	20.59	21.50	1.233	0.507	/
<b>Specific</b>															
ANT1	DSI4	QPSK	Bottom Edge	0	39750+39948	2506+2505.8	1+1	High+Low	0.12	1.290	20.78	21.50	1.180	<b>1.523</b>	49#
	DSI4			0	40185+40383	2549.5+2569.3	1+1	High+Low	0.10	1.210	20.82	21.50	1.169	1.415	/
	DSI4			0	40620+40818	2593+2612.8	1+1	High+Low	0.01	1.180	20.71	21.50	1.199	1.415	/
	DSI4			0	41055+40857	2636.5+2616.7	1+1	Low+High	0.03	1.230	20.74	21.50	1.191	1.465	/
	DSI4			0	41490+41292	2680+2660.2	1+1	Low+High	0.06	1.090	20.59	21.50	1.233	1.344	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

### 10.15 WIFI 2.4GHZ

Mode	Antenna	DSI State	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Report SAR (W/kg)	Meas. No.
<b>Head</b>															
802.11 b	ANT7	DSI1	Left Cheek	0	1	2412	0.04	0.438	16.51	17.00	1.119	99.00	1.010	0.495	/
		DSI1	Left Tilt	0	1	2412	-0.18	0.261	16.51	17.00	1.119	99.00	1.010	0.295	/
		DSI1	Right Cheek	0	1	2412	0.15	0.145	16.51	17.00	1.119	99.00	1.010	0.164	/
		DSI1	Right Tilt	0	1	2412	-0.19	0.113	16.51	17.00	1.119	99.00	1.010	0.128	/
802.11 g	ANT7	DSI1	Left Cheek	0	6	2437	-0.03	0.619	18.31	20.00	1.476	99.00	1.010	<b>0.923</b>	30#
		DSI1	Left Tilt	0	6	2437	0.15	0.413	18.31	20.00	1.476	99.00	1.010	0.616	/
		DSI1	Right Cheek	0	6	2437	-0.01	0.256	18.31	20.00	1.476	99.00	1.010	0.382	/
		DSI1	Right Tilt	0	6	2437	-0.16	0.172	18.31	20.00	1.476	99.00	1.010	0.256	/
		DSI1	Left Cheek	0	2	2417	-0.09	0.587	18.11	20.00	1.545	99.00	1.010	0.916	/
		DSI1	Left Cheek	0	9	2452	0.17	0.594	18.37	20.00	1.455	99.00	1.010	0.873	/
<b>Hotspot</b>															
802.11 b	ANT7	DSI4	Front Side	10	1	2412	0.19	0.056	16.51	17.00	1.119	99.00	1.010	0.063	/
		DSI4	Back Side	10	1	2412	-0.08	0.090	16.51	17.00	1.119	99.00	1.010	0.102	/
		DSI4	Left Edge	10	1	2412	0.15	0.076	16.51	17.00	1.119	99.00	1.010	0.086	/
		DSI4	Right Edge	10	1	2412	-0.05	0.016	16.51	17.00	1.119	99.00	1.010	0.018	/
		DSI4	Top Edge	10	1	2412	0.04	0.053	16.51	17.00	1.119	99.00	1.010	0.060	/
		DSI4	Bottom Edge	10	1	2412	0.12	0.016	16.51	17.00	1.119	99.00	1.010	0.018	/
802.11 g	ANT7	DSI4	Front Side	10	6	2437	0.11	0.106	18.31	20.00	1.476	99.00	1.010	0.158	/
		DSI4	Back Side	10	6	2437	0.13	0.167	18.31	20.00	1.476	99.00	1.010	<b>0.249</b>	31#
		DSI4	Left Edge	10	6	2437	0.19	0.132	18.31	20.00	1.476	99.00	1.010	0.197	/
		DSI4	Right Edge	10	6	2437	-0.05	0.034	18.31	20.00	1.476	99.00	1.010	0.051	/
		DSI4	Top Edge	10	6	2437	0.08	0.106	18.31	20.00	1.476	99.00	1.010	0.158	/
		DSI4	Bottom Edge	10	6	2437	-0.18	0.023	18.31	20.00	1.476	99.00	1.010	0.034	/
		DSI4	Back Side	10	2	2417	-0.17	0.168	0.00	1.50	1.413	99.00	1.010	0.240	/
		DSI4	Back Side	10	9	2452	0.19	0.132	0.00	1.50	1.413	99.00	1.010	0.188	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

### 10.16 WIFI 5GHz

Band	Mode	Antenna	DSI State	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1 g Report SAR (W/kg)	Meas. No.
<b>Head</b>																
5.3G	802.11a	ANT7	DSI1	Left Cheek	0	60	5300	-0.07	0.565	18.06	19.00	1.242	96.25	1.039	0.729	/
			DSI1	Left Tilt	0	60	5300	0.05	0.804	18.06	19.00	1.242	96.25	1.039	<b>1.037</b>	32#
			DSI1	Right Cheek	0	60	5300	-0.05	0.446	18.06	19.00	1.242	96.25	1.039	0.575	/
			DSI1	Right Tilt	0	60	5300	0.14	0.532	18.06	19.00	1.242	96.25	1.039	0.686	/
			DSI1	Left Tilt	0	52	5260	0.11	0.684	17.88	19.00	1.294	96.25	1.039	0.920	/
			DSI1	Left Tilt	0	64	5320	0.18	0.377	16.23	18.00	1.503	96.25	1.039	0.589	/
5.6G	802.11a	ANT7	DSI1	Left Cheek	0	116	5580	0.09	0.372	17.96	19.00	1.271	96.25	1.039	0.491	/
			DSI1	Left Tilt	0	116	5580	0.17	0.506	17.96	19.00	1.271	96.25	1.039	<b>0.668</b>	33#
			DSI1	Right Cheek	0	116	5580	0.13	0.355	17.96	19.00	1.271	96.25	1.039	0.469	/
			DSI1	Right Tilt	0	116	5580	-0.07	0.432	17.96	19.00	1.271	96.25	1.039	0.570	/
			DSI1	Left Tilt	0	100	5500	0.10	0.332	0.00	1.50	1.413	97.00	1.031	0.484	/
			DSI1	Left Tilt	0	140	5700	-0.01	0.203	0.00	1.50	1.413	97.00	1.031	0.296	/
5.8G	802.11a c80	ANT7	DSI1	Left Cheek	0	155	5775	0.17	0.153	13.84	15.00	1.306	88.00	1.136	0.227	/
			DSI1	Left Tilt	0	155	5775	0.16	0.192	13.84	15.00	1.306	88.00	1.136	<b>0.285</b>	34#
			DSI1	Right Cheek	0	155	5775	0.11	0.121	13.84	15.00	1.306	88.00	1.136	0.180	/
			DSI1	Right Tilt	0	155	5775	0.11	0.156	13.84	15.00	1.306	88.00	1.136	0.231	/
<b>Hotspot</b>																
5.2G	802.11a	ANT7	DSI4	Front Side	10	44	5220	-0.15	0.104	17.80	19.00	1.318	96.25	1.039	0.142	/
			DSI4	Back Side	10	44	5220	0.06	0.573	17.80	19.00	1.318	96.25	1.039	0.785	/
			DSI4	Left Edge	10	44	5220	0.02	0.338	17.80	19.00	1.318	96.25	1.039	0.463	/
			DSI4	Right Edge	10	44	5220	0.06	0.012	17.80	19.00	1.318	96.25	1.039	0.016	/
			DSI4	Top Edge	10	44	5220	-0.16	0.609	17.80	19.00	1.318	96.25	1.039	<b>0.834</b>	35#
			DSI4	Bottom Edge	10	44	5220	0.00	0.033	17.80	19.00	1.318	96.25	1.039	0.045	/
			DSI4	Top Edge	10	36	5180	0.10	0.466	15.75	17.00	1.334	96.25	1.039	0.646	/
			DSI4	Top Edge	10	48	5240	-0.05	0.601	17.75	19.00	1.334	96.25	1.039	0.833	/
5.8G	802.11a c80	ANT7	DSI4	Front Side	10	155	5775	0.16	0.048	13.84	15.00	1.306	88.00	1.136	0.071	/
			DSI4	Back Side	10	155	5775	0.01	0.201	13.84	15.00	1.306	88.00	1.136	<b>0.298</b>	36#
			DSI4	Left Edge	10	155	5775	0.10	0.121	13.84	15.00	1.306	88.00	1.136	0.180	/
			DSI4	Right Edge	10	155	5775	0.01	0.010	13.84	15.00	1.306	88.00	1.136	0.015	/
			DSI4	Top Edge	10	155	5775	0.19	0.199	13.84	15.00	1.306	88.00	1.136	0.295	/
			DSI4	Bottom Edge	10	155	5775	0.13	0.022	13.84	15.00	1.306	88.00	1.136	0.033	/
Band	Mode	Antenna	DSI State	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	10g Report SAR (W/kg)	Meas. No.
<b>Specific</b>																
5.3G	802.11a	ANT7	DSI4	Front Side	0	60	5300	-0.01	0.273	18.06	19.00	1.242	96.25	1.039	0.352	/

			DSI4	Back Side	0	60	5300	0.14	0.964	18.06	19.00	1.242	96.25	1.039	1.244	/
			DSI4	Left Edge	0	60	5300	0.16	0.341	18.06	19.00	1.242	96.25	1.039	0.440	/
			DSI4	Right Edge	0	60	5300	0.13	0.015	18.06	19.00	1.242	96.25	1.039	0.019	/
			DSI4	Top Edge	0	60	5300	-0.08	1.370	18.06	19.00	1.242	96.25	1.039	<b>1.767</b>	37#
			DSI4	Bottom Edge	0	60	5300	-0.07	0.027	18.06	19.00	1.242	96.25	1.039	0.035	/
			5.6G	802.11a	ANT7	DSI4	Front Side	0	116	5580	0.09	0.237	17.96	19.00	1.271	96.25
DSI4	Back Side	0				116	5580	-0.01	0.840	17.96	19.00	1.271	96.25	1.039	1.109	/
DSI4	Left Edge	0				116	5580	0.06	0.338	17.96	19.00	1.271	96.25	1.039	0.446	/
DSI4	Right Edge	0				116	5580	-0.02	0.016	17.96	19.00	1.271	96.25	1.039	0.021	/
DSI4	Top Edge	0				116	5580	0.04	0.856	17.96	19.00	1.271	96.25	1.039	<b>1.130</b>	38#
DSI4	Bottom Edge	0				116	5580	0.00	0.025	17.96	19.00	1.271	96.25	1.039	0.033	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

### 10.17 Bluetooth

Mode	Antenna	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1 g Report SAR (W/kg)	Meas. No.
<b>Head</b>														
Bluetooth	ANT6	Left Cheek	0	39	2441	-0.08	0.091	13.92	14.00	1.019	76.88	1.301	<b>0.121</b>	39#
		Left Tilt	0	39	2441	0.11	0.051	13.92	14.00	1.019	76.88	1.301	0.068	/
		Right Cheek	0	39	2441	-0.10	0.028	13.92	14.00	1.019	76.88	1.301	0.037	/
		Right Tilt	0	39	2441	0.01	0.021	13.92	14.00	1.019	76.88	1.301	0.028	/
<b>Hotspot</b>														
Bluetooth	ANT6	Front Side	10	39	2441	-0.19	0.014	13.92	14.00	1.019	76.88	1.301	0.019	/
		Back Side	10	39	2441	-0.10	0.025	13.92	14.00	1.019	76.88	1.301	<b>0.033</b>	40#
		Left Edge	10	39	2441	0.05	0.011	13.92	14.00	1.019	76.88	1.301	0.015	/
		Right Edge	10	39	2441	0.03	0.004	13.92	14.00	1.019	76.88	1.301	0.005	/
		Top Edge	10	39	2441	-0.14	0.009	13.92	14.00	1.019	76.88	1.301	0.012	/
		Bottom Edge	10	39	2441	-0.18	0.006	13.92	14.00	1.019	76.88	1.301	0.008	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

## 11 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was 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. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are  $\leq 1.45$  W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is  $\leq 1.10$ , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

1. When the highest measured SAR is  $< 0.80$  W/kg, repeated measurement is not required.
2. When the highest measured SAR is  $\geq 0.80$  W/kg, repeat that measurement once.
3. If the ratio of largest to smallest SAR for the original and first repeated measurements is  $> 1.20$ , or when the original or repeated measurement is  $\geq 1.45$  W/kg, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is  $> 1.20$ , and the original, first or second repeated measurement is  $\geq 1.5$  W/kg, perform a third repeated measurement.

Frequency Band (MHz)	Wireless Band	RF Exposure Conditions	Test Position	Highest Measured SAR (W/kg)	Repeated SAR (Yes/No)	Repeated <sup>1st</sup> Measured SAR (W/kg)	Largest to Smallest SAR Ratio
5300	WIFI 5GHz	Head	Left Tilt	0.804	Yes	0.786	1.02

Note: The ratio of largest to smallest SAR for the original and first repeated measurements is  $< 1.20$ , the second repeated measurement. is not required.

Note: For product specific 10g SAR, the highest measured 10g SAR is  $1.39 < 2.0$  W/kg, repeated measurement is not required.

## 12 SIMULTANEOUS TRANSMISSION

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR 1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR 1g 1.6 W/kg), SAR test exclusion is determined by the SAR to Peak Location Ratio (SPLSR).

### 12.1 Simultaneous Transmission Mode Consider

No.	Simultaneous Tx Combination	Head	Hotspot	Specific
1	WWAN + WiFi 2.4G	Yes	Yes	Yes
2	WWAN + WiFi 5G + Bluetooth	Yes	Yes	Yes

Note:

- Two WWAN antennas can switch automatically, but up and down antenna can't transmit simultaneously.
- When stand-alone SAR is not required for a transmitter or antenna, its SAR is considered zero in the SAR summing process to assess Multi-band transmission SAR compliance.
- The maximum SAR summation is calculated based on the same configuration and test position.
- The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations is shown in this report.
- If 1g-SAR scalar summation < 1.6W/kg, 10g-SAR scalar summation < 4.0W/kg, simultaneous SAR measurement is not necessary.

## 12.2 Estimated SAR Calculation

### 12.2.1 Head Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

Band	Antenna	Position	Stand alone SAR				SUM SAR	
			1	2	3	4	Sum SAR (1+2)	Sum SAR (1+3+4)
			WWAN	2.4GWIFI	5GWIFI (MAX)	Bluetooth		
GSM850	ANT4	Left Cheek	0.373	0.972	0.730	0.121	1.345	1.224
	ANT4	Left Tilt	0.267	0.616	1.039	0.068	0.883	1.374
	ANT4	Right Cheek	0.456	0.382	0.576	0.037	0.838	1.069
	ANT4	Right Tilt	0.368	0.256	0.687	0.028	0.624	1.083
GSM850	ANT1	Left Cheek	0.263	0.972	0.730	0.121	1.235	1.114
	ANT1	Left Tilt	0.127	0.616	1.039	0.068	0.743	1.234
	ANT1	Right Cheek	0.217	0.382	0.576	0.037	0.599	0.830
	ANT1	Right Tilt	0.105	0.256	0.687	0.028	0.361	0.820
GSM1900	ANT4	Left Cheek	0.173	0.972	0.730	0.121	1.145	1.024
	ANT4	Left Tilt	0.203	0.616	1.039	0.068	0.819	1.310
	ANT4	Right Cheek	0.217	0.382	0.576	0.037	0.599	0.830
	ANT4	Right Tilt	0.376	0.256	0.687	0.028	0.632	1.091
GSM1900	ANT1	Left Cheek	0.176	0.972	0.730	0.121	1.148	1.027
	ANT1	Left Tilt	0.099	0.616	1.039	0.068	0.715	1.206
	ANT1	Right Cheek	0.150	0.382	0.576	0.037	0.532	0.763
	ANT1	Right Tilt	0.101	0.256	0.687	0.028	0.357	0.816
WCDMA B2	ANT4	Left Cheek	0.215	0.972	0.730	0.121	1.187	1.066
	ANT4	Left Tilt	0.239	0.616	1.039	0.068	0.855	1.346
	ANT4	Right Cheek	0.258	0.382	0.576	0.037	0.640	0.871
	ANT4	Right Tilt	0.336	0.256	0.687	0.028	0.592	1.051
WCDMA B2	ANT1	Left Cheek	0.217	0.972	0.730	0.121	1.189	1.068
	ANT1	Left Tilt	0.133	0.616	1.039	0.068	0.749	1.240
	ANT1	Right Cheek	0.164	0.382	0.576	0.037	0.546	0.777
	ANT1	Right Tilt	0.151	0.256	0.687	0.028	0.407	0.866
WCDMA B4	ANT4	Left Cheek	0.355	0.972	0.730	0.121	1.327	1.206
	ANT4	Left Tilt	0.451	0.616	1.039	0.068	1.067	1.558
	ANT4	Right Cheek	0.466	0.382	0.576	0.037	0.848	1.079
	ANT4	Right Tilt	0.638	0.256	0.687	0.028	0.894	1.353
WCDMA B4	ANT1	Left Cheek	0.214	0.972	0.730	0.121	1.186	1.065
	ANT1	Left Tilt	0.198	0.616	1.039	0.068	0.814	1.305
	ANT1	Right Cheek	0.162	0.382	0.576	0.037	0.544	0.775
	ANT1	Right Tilt	0.144	0.256	0.687	0.028	0.400	0.859
WCDMA B5	ANT4	Left Cheek	0.221	0.972	0.730	0.121	1.193	1.072

	ANT4	Left Tilt	0.277	0.616	1.039	0.068	0.893	1.384
	ANT4	Right Cheek	0.288	0.382	0.576	0.037	0.670	0.901
	ANT4	Right Tilt	0.379	0.256	0.687	0.028	0.635	1.094
WCDMA B5	ANT1	Left Cheek	0.183	0.972	0.730	0.121	1.155	1.034
	ANT1	Left Tilt	0.109	0.616	1.039	0.068	0.725	1.216
	ANT1	Right Cheek	0.120	0.382	0.576	0.037	0.502	0.733
	ANT1	Right Tilt	0.105	0.256	0.687	0.028	0.361	0.820
LTE B2	ANT4	Left Cheek	0.262	0.972	0.730	0.121	1.234	1.113
	ANT4	Left Tilt	0.346	0.616	1.039	0.068	0.962	1.453
	ANT4	Right Cheek	0.337	0.382	0.576	0.037	0.719	0.950
	ANT4	Right Tilt	0.415	0.256	0.687	0.028	0.671	1.130
LTE B2	ANT1	Left Cheek	0.223	0.972	0.730	0.121	1.195	1.074
	ANT1	Left Tilt	0.149	0.616	1.039	0.068	0.765	1.256
	ANT1	Right Cheek	0.155	0.382	0.576	0.037	0.537	0.768
	ANT1	Right Tilt	0.139	0.256	0.687	0.028	0.395	0.854
LTE B4	ANT4	Left Cheek	0.362	0.972	0.730	0.121	1.334	1.213
	ANT4	Left Tilt	0.285	0.616	1.039	0.068	0.901	1.392
	ANT4	Right Cheek	0.474	0.382	0.576	0.037	0.856	1.087
	ANT4	Right Tilt	0.357	0.256	0.687	0.028	0.613	1.072
LTE B4	ANT1	Left Cheek	0.112	0.972	0.730	0.121	1.084	0.963
	ANT1	Left Tilt	0.065	0.616	1.039	0.068	0.681	1.172
	ANT1	Right Cheek	0.075	0.382	0.576	0.037	0.457	0.688
	ANT1	Right Tilt	0.058	0.256	0.687	0.028	0.314	0.773
LTE B5	ANT4	Left Cheek	0.425	0.972	0.730	0.121	1.397	1.276
	ANT4	Left Tilt	0.373	0.616	1.039	0.068	0.989	1.480
	ANT4	Right Cheek	0.427	0.382	0.576	0.037	0.809	1.040
	ANT4	Right Tilt	0.356	0.256	0.687	0.028	0.612	1.071
LTE B5	ANT1	Left Cheek	0.207	0.972	0.730	0.121	1.179	1.058
	ANT1	Left Tilt	0.068	0.616	1.039	0.068	0.684	1.175
	ANT1	Right Cheek	0.157	0.382	0.576	0.037	0.539	0.770
	ANT1	Right Tilt	0.078	0.256	0.687	0.028	0.334	0.793
LTE B7	ANT4	Left Cheek	0.234	0.972	0.730	0.121	1.206	1.085
	ANT4	Left Tilt	0.344	0.616	1.039	0.068	0.960	1.451
	ANT4	Right Cheek	0.316	0.382	0.576	0.037	0.698	0.929
	ANT4	Right Tilt	0.413	0.256	0.687	0.028	0.669	1.128
LTE B7	ANT1	Left Cheek	0.061	0.972	0.730	0.121	1.033	0.912
	ANT1	Left Tilt	0.027	0.616	1.039	0.068	0.643	1.134
	ANT1	Right Cheek	0.042	0.382	0.576	0.037	0.424	0.655
	ANT1	Right Tilt	0.058	0.256	0.687	0.028	0.314	0.773
LTE B38	ANT4	Left Cheek	0.149	0.972	0.730	0.121	1.121	1.000
	ANT4	Left Tilt	0.195	0.616	1.039	0.068	0.811	1.302
	ANT4	Right Cheek	0.208	0.382	0.576	0.037	0.590	0.821
	ANT4	Right Tilt	0.292	0.256	0.687	0.028	0.548	1.007



LTE B38	ANT1	Left Cheek	0.109	0.972	0.730	0.121	1.081	0.960
	ANT1	Left Tilt	0.056	0.616	1.039	0.068	0.672	1.163
	ANT1	Right Cheek	0.085	0.382	0.576	0.037	0.467	0.698
	ANT1	Right Tilt	0.095	0.256	0.687	0.028	0.351	0.810
LTE B41	ANT4	Left Cheek	0.292	0.972	0.730	0.121	1.264	1.143
	ANT4	Left Tilt	0.396	0.616	1.039	0.068	1.012	1.503
	ANT4	Right Cheek	0.489	0.382	0.576	0.037	0.871	1.102
	ANT4	Right Tilt	0.558	0.256	0.687	0.028	0.814	1.273
LTE B41	ANT1	Left Cheek	0.049	0.972	0.730	0.121	1.021	0.900
	ANT1	Left Tilt	0.028	0.616	1.039	0.068	0.644	1.135
	ANT1	Right Cheek	0.032	0.382	0.576	0.037	0.414	0.645
	ANT1	Right Tilt	0.043	0.256	0.687	0.028	0.299	0.758

**Note:**

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.558 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

### 12.2.2 Hotspot Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

Band	Antenna	Position	Stand alone SAR				SUM SAR	
			1	2	3	4	Sum SAR (1+2)	Sum SAR (1+3+4)
			WWAN	2.4GWIFI(MAX)	5GWIFI(MAX)	Bluetooth		
GSM850	ANT4	Front Side 10mm	0.105	0.158	0.141	0.019	0.263	0.265
	ANT4	Back Side 10mm	0.181	0.249	0.779	0.033	0.430	0.993
	ANT4	Right Edge 10mm	0.081	0.051	0.016	0.005	0.132	0.102
	ANT4	Top Edge 10mm	0.139	0.158	0.828	0.012	0.297	0.979
GSM850	ANT1	Front Side 10mm	0.206	0.158	0.063	0.019	0.364	0.288
	ANT1	Back Side 10mm	0.542	0.249	0.779	0.033	0.791	1.354
	ANT1	Left Edge 10mm	0.137	0.197	0.459	0.015	0.334	0.611
	ANT1	Right Edge 10mm	0.266	0.034	0.045	0.008	0.300	0.319
	ANT1	Bottom Edge 10mm	0.263	0.034	0.045	0.008	0.297	0.316
GSM1900	ANT4	Front Side 10mm	0.064	0.158	0.063	0.019	0.222	0.146
	ANT4	Back Side 10mm	0.264	0.249	0.779	0.033	0.513	1.076
	ANT4	Right Edge 10mm	0.068	0.051	0.016	0.005	0.119	0.089
	ANT4	Top Edge 10mm	0.220	0.158	0.828	0.012	0.378	1.060
GSM1900	ANT1	Front Side 10mm	0.088	0.158	0.063	0.019	0.246	0.170
	ANT1	Back Side 10mm	0.322	0.249	0.779	0.033	0.571	1.134
	ANT1	Left Edge 10mm	0.060	0.197	0.459	0.015	0.257	0.534
	ANT1	Right Edge 10mm	0.148	0.034	0.045	0.008	0.182	0.201

	ANT1	Bottom Edge 10mm	0.364	0.034	0.045	0.008	0.398	0.417
WCDMA B2	ANT4	Front Side 10mm	0.091	0.158	0.063	0.019	0.249	0.173
	ANT4	Back Side 10mm	0.357	0.249	0.779	0.033	0.606	1.169
	ANT4	Right Edge 10mm	0.118	0.051	0.016	0.005	0.169	0.139
	ANT4	Top Edge 10mm	0.282	0.158	0.828	0.012	0.440	1.122
WCDMA B2	ANT1	Front Side 10mm	0.157	0.158	0.063	0.019	0.315	0.239
	ANT1	Back Side 10mm	0.429	0.249	0.779	0.033	0.678	1.241
	ANT1	Left Edge 10mm	0.397	0.197	0.459	0.015	0.594	0.871
	ANT1	Right Edge 10mm	0.165	0.034	0.045	0.008	0.199	0.218
	ANT1	Bottom Edge 10mm	0.501	0.034	0.045	0.008	0.535	0.554
WCDMA B4	ANT4	Front Side 10mm	0.125	0.158	0.063	0.019	0.283	0.207
	ANT4	Back Side 10mm	0.294	0.249	0.779	0.033	0.543	1.106
	ANT4	Right Edge 10mm	0.294	0.051	0.016	0.005	0.345	0.315
	ANT4	Top Edge 10mm	0.124	0.158	0.828	0.012	0.282	0.964
WCDMA B4	ANT1	Front Side 10mm	0.157	0.158	0.063	0.019	0.315	0.239
	ANT1	Back Side 10mm	0.497	0.249	0.779	0.033	0.746	1.309
	ANT1	Left Edge 10mm	0.211	0.197	0.459	0.015	0.408	0.685
	ANT1	Right Edge 10mm	0.128	0.034	0.045	0.008	0.162	0.181
	ANT1	Bottom Edge 10mm	0.582	0.034	0.045	0.008	0.616	0.635
WCDMA B5	ANT4	Front Side 10mm	0.293	0.158	0.063	0.019	0.451	0.375
	ANT4	Back Side 10mm	0.435	0.249	0.779	0.033	0.684	1.247
	ANT4	Right Edge 10mm	0.154	0.051	0.016	0.005	0.205	0.175
	ANT4	Top Edge 10mm	0.266	0.158	0.828	0.012	0.424	1.106
WCDMA B5	ANT1	Front Side 10mm	0.166	0.158	0.063	0.019	0.324	0.248
	ANT1	Back Side 10mm	0.306	0.249	0.779	0.033	0.555	1.118
	ANT1	Left Edge 10mm	0.167	0.197	0.459	0.015	0.364	0.641
	ANT1	Right Edge 10mm	0.161	0.034	0.045	0.008	0.195	0.214
	ANT1	Bottom Edge 10mm	0.247	0.034	0.045	0.008	0.281	0.300
LTE B2	ANT4	Front Side 10mm	0.091	0.158	0.063	0.019	0.249	0.173
	ANT4	Back Side 10mm	0.312	0.249	0.779	0.033	0.561	1.124
	ANT4	Right Edge 10mm	0.136	0.051	0.016	0.005	0.187	0.157
	ANT4	Top Edge 10mm	0.270	0.158	0.828	0.012	0.428	1.110
LTE B2	ANT1	Front Side 10mm	0.137	0.158	0.063	0.019	0.295	0.219
	ANT1	Back Side 10mm	0.446	0.249	0.779	0.033	0.695	1.258
	ANT1	Left Edge 10mm	0.337	0.197	0.459	0.015	0.534	0.811
	ANT1	Right Edge 10mm	0.180	0.034	0.045	0.008	0.214	0.233
	ANT1	Bottom Edge 10mm	0.497	0.034	0.045	0.008	0.531	0.550
LTE B4	ANT4	Front Side 10mm	0.108	0.158	0.063	0.019	0.266	0.190
	ANT4	Back Side 10mm	0.227	0.249	0.779	0.033	0.476	1.039
	ANT4	Right Edge 10mm	0.255	0.051	0.016	0.005	0.306	0.276
	ANT4	Top Edge 10mm	0.103	0.158	0.828	0.012	0.261	0.943
LTE B4	ANT1	Front Side 10mm	0.154	0.158	0.063	0.019	0.312	0.236
	ANT1	Back Side 10mm	0.455	0.249	0.779	0.033	0.704	1.267

	ANT1	Left Edge 10mm	0.204	0.197	0.459	0.015	0.401	0.678
	ANT1	Right Edge 10mm	0.135	0.034	0.045	0.008	0.169	0.188
	ANT1	Bottom Edge 10mm	0.569	0.034	0.045	0.008	0.603	0.622
LTE B5	ANT4	Front Side 10mm	0.275	0.158	0.063	0.019	0.433	0.357
	ANT4	Back Side 10mm	0.392	0.249	0.779	0.033	0.641	1.204
	ANT4	Right Edge 10mm	0.110	0.051	0.016	0.005	0.161	0.131
	ANT4	Top Edge 10mm	0.336	0.158	0.828	0.012	0.494	1.176
LTE B5	ANT1	Front Side 10mm	0.134	0.158	0.063	0.019	0.292	0.216
	ANT1	Back Side 10mm	0.258	0.249	0.779	0.033	0.507	1.070
	ANT1	Left Edge 10mm	0.115	0.197	0.459	0.015	0.312	0.589
	ANT1	Right Edge 10mm	0.157	0.034	0.045	0.008	0.191	0.210
	ANT1	Bottom Edge 10mm	0.157	0.034	0.045	0.008	0.191	0.210
LTE B7	ANT4	Front Side 10mm	0.089	0.158	0.063	0.019	0.247	0.171
	ANT4	Back Side 10mm	0.205	0.249	0.779	0.033	0.454	1.017
	ANT4	Right Edge 10mm	0.267	0.051	0.016	0.005	0.318	0.288
	ANT4	Top Edge 10mm	0.214	0.158	0.828	0.012	0.372	1.054
LTE B7	ANT1	Front Side 10mm	0.159	0.158	0.063	0.019	0.317	0.241
	ANT1	Back Side 10mm	0.393	0.249	0.779	0.033	0.642	1.205
	ANT1	Left Edge 10mm	0.076	0.197	0.459	0.015	0.273	0.550
	ANT1	Right Edge 10mm	0.246	0.034	0.045	0.008	0.280	0.299
	ANT1	Bottom Edge 10mm	0.572	0.034	0.045	0.008	0.606	0.625
LTE B38	ANT4	Front Side 10mm	0.049	0.158	0.063	0.019	0.207	0.131
	ANT4	Back Side 10mm	0.143	0.249	0.779	0.033	0.392	0.955
	ANT4	Right Edge 10mm	0.186	0.051	0.016	0.005	0.237	0.207
	ANT4	Top Edge 10mm	0.164	0.158	0.828	0.012	0.322	1.004
LTE B38	ANT1	Front Side 10mm	0.153	0.158	0.063	0.019	0.311	0.235
	ANT1	Back Side 10mm	0.416	0.249	0.779	0.033	0.665	1.228
	ANT1	Left Edge 10mm	0.132	0.197	0.459	0.015	0.329	0.606
	ANT1	Right Edge 10mm	0.121	0.034	0.045	0.008	0.155	0.174
	ANT1	Bottom Edge 10mm	0.617	0.034	0.045	0.008	0.651	0.670
LTE B41	ANT4	Front Side 10mm	0.128	0.158	0.063	0.019	0.286	0.210
	ANT4	Back Side 10mm	0.330	0.249	0.779	0.033	0.579	1.142
	ANT4	Right Edge 10mm	0.077	0.051	0.016	0.005	0.128	0.098
	ANT4	Top Edge 10mm	0.368	0.158	0.828	0.012	0.526	1.208
LTE B41	ANT1	Front Side 10mm	0.180	0.158	0.063	0.019	0.338	0.262
	ANT1	Back Side 10mm	0.420	0.249	0.779	0.033	0.669	1.232
	ANT1	Left Edge 10mm	0.051	0.197	0.459	0.015	0.248	0.525
	ANT1	Right Edge 10mm	0.088	0.034	0.045	0.008	0.122	0.141
	ANT1	Bottom Edge 10mm	0.618	0.034	0.045	0.008	0.652	0.671

## Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.354 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

## 12.2.3 Specific Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN

Band	Antenna	Position	Stand alone SAR		SUM SAR
			1	2	
			WWAN	5GWIFI(MAX)	Sum SAR (1+2)
GSM1900	ANT1	Back Side 0mm	1.661	0.035	1.696
	ANT1	Bottom Edge 0mm	0.515	0.035	0.550
WCDMA B2	ANT1	Back Side 0mm	1.045	1.245	2.290
	ANT1	Bottom Edge 0mm	0.860	0.035	0.895
WCDMA B4	ANT1	Back Side 0mm	0.990	1.245	2.235
	ANT1	Bottom Edge 0mm	0.971	0.035	1.006
LTE B2	ANT1	Back Side 0mm	1.021	1.245	2.266
	ANT1	Bottom Edge 0mm	0.877	0.035	0.912
LTE B4	ANT1	Back Side 0mm	0.881	1.245	2.126
	ANT1	Bottom Edge 0mm	0.872	0.035	0.907
LTE B7	ANT1	Back Side 0mm	1.147	1.245	2.392
	ANT1	Bottom Edge 0mm	1.414	0.035	1.449
LTE B38	ANT1	Bottom Edge 0mm	1.438	0.035	1.473
LTE B41	ANT1	Bottom Edge 0mm	1.447	0.035	1.482

## Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 10g SAR is 2.392 W/Kg < 4.0 W/kg, so Simultaneous Transmission SAR test is not required.

## 13 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	Speag	DASY5	52.8.8.1222	N/A	N/A
835MHz Validation Dipole	Speag	D835V2	SN: 4d187	2021/05/17	2024/05/16
1750MHz Validation Dipole	Speag	D1750V2	SN: 1130	2021/05/17	2024/05/16
1900MHz Validation Dipole	Speag	D1900V2	SN: 5d193	2021/05/20	2024/05/19
2450MHz Validation Dipole	Speag	D2450V2	SN: 952	2021/05/19	2024/05/18
2600MHz Validation Dipole	Speag	D2600V2	SN: 1095	2021/05/19	2024/05/18
5GHz Validation Dipole	Speag	D5GHZV2	SN: 1200	2021/05/18	2024/05/17
E-Field Probe	Speag	EX3DV4	SN: 7510	2021/12/29	2022/12/28
Data Acquisition Electronics	Speag	DAE4	SN: 1454	2021/11/05	2022/11/04
Signal Generator	R&S	SMB100A	177746	2021/08/24	2022/08/23
Power Meter	R&S	NRVD-B2	7250BJ-0112/2011	2021/09/08	2022/09/07
Power Sensor	R&S	NRV-Z4	100381	2021/09/08	2022/09/07
Power Sensor	R&S	NRV-Z2	100211	2021/09/08	2022/09/07
Wireless Communication Test Set	Anritsu	MT8820C	6201502974	2021/01/04	2023/01/03
Network Analyzer	Agilent	E5071C	MY46103472	2021/12/29	2022/12/28
Thermometer	Elitech	RC-4HC	EF720B004820	2021/12/01	2022/11/30
Power Amplifier	SATIMO	6552B	22374	N/A	N/A
Dielectric Probe Kit	Speag	DAK3.5	SN 1312	N/A	N/A
Phantom2	Speag	SAM	SN: 1857	N/A	N/A
Attenuator	COM-MW	ZA-S1-31	1305003187	N/A	N/A
Directional coupler	AA-MCS	AAMCS-UDC	000272	N/A	N/A

Note: For dipole antennas, BALUN has adopted 3 years as calibration intervals, and on annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss in within 20% of calibrated measurement.
4. Impedance (real or imaginary parts) in within 5 Ohms of calibrated measurement.

## ANNEX A SIMULATING LIQUID VERIFICATION RESULT

The dielectric parameters of the liquids were verified prior to the SAR evaluation using an SCLMP Dielectric Probe Kit.

Head Liquid

Date	Liquid Type	Fre. (MHz)	Temp. (°C)	Meas. Conductivity ( $\sigma$ ) (S/m)	Meas. Permittivity ( $\epsilon$ )	Target Conductivity ( $\sigma$ ) (S/m)	Target Permittivity ( $\epsilon$ )	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2022.06.14	Head	835	22.3	0.89	41.78	0.90	41.50	-1.11	0.67
2022.06.15	Head	835	21.7	0.90	41.77	0.90	41.50	0.00	0.65
2022.07.02	Head	835	21.4	0.90	41.79	0.90	41.50	0.00	0.70
2022.06.16	Head	1750	21.6	1.38	40.24	1.37	40.08	0.73	0.40
2022.06.17	Head	1900	22.0	1.40	39.89	1.40	40.00	0.00	-0.27
2022.06.18	Head	1900	21.3	1.40	39.76	1.40	40.00	0.00	-0.60
2022.07.03	Head	1900	21.2	1.40	39.92	1.40	40.00	0.00	-0.20
2022.06.20	Head	2450	21.3	1.80	39.68	1.80	39.20	0.00	1.22
2022.06.21	Head	2600	21.5	1.98	38.50	1.96	39.01	1.02	-1.31
2022.06.22	Head	2600	21.5	1.97	38.63	1.96	39.01	0.51	-0.97
2022.06.23	Head	2600	21.8	1.97	38.62	1.96	39.01	0.51	-1.00
2022.06.24	Head	5250	21.4	4.71	35.74	4.76	35.87	-1.05	-0.36
2022.06.24	Head	5600	21.4	5.06	35.18	5.07	35.53	-0.20	-0.99
2022.06.24	Head	5750	21.4	5.18	35.59	5.27	35.30	-1.71	0.82

Note: The tolerance limit of Conductivity and Permittivity is  $\pm 5\%$ .

## ANNEX B SYSTEM CHECK RESULT

Comparing to the original SAR value provided by SPEAG, the validation data should be within its specification of 10 % (for 1 g).

Head liquid 1g

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2022.06.14	Head	835	100	0.964	9.64	9.76	-1.23
2022.06.15	Head	835	100	0.976	9.76	9.76	0.00
2022.07.02	Head	835	100	0.964	9.64	9.76	-1.23
2022.06.16	Head	1750	100	3.680	36.80	36.70	0.27
2022.06.17	Head	1900	100	3.960	39.60	40.30	-1.74
2022.06.18	Head	1900	100	3.980	39.80	40.30	-1.24
2022.07.03	Head	1900	100	4.010	40.10	40.30	-0.50
2022.06.20	Head	2450	100	5.290	52.90	53.00	-0.19
2022.06.21	Head	2600	100	5.490	54.90	56.80	-3.35
2022.06.22	Head	2600	100	5.590	55.90	56.80	-1.58
2022.06.23	Head	2600	100	5.520	55.20	56.80	-2.82
2022.06.24	Head	5250	100	7.810	78.10	78.10	0.00
2022.06.24	Head	5600	100	8.200	82.00	81.20	0.99
2022.06.24	Head	5750	100	8.020	80.20	77.20	3.89

Note: The tolerance limit of System validation  $\pm 10\%$ .

## System Performance Check Data (835MHz Head)

### System Check: Head 835MHz

Date: 2022.06.14

Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.894$  S/m;  $\epsilon_r = 41.775$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.2 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**CW 835/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.971 W/kg

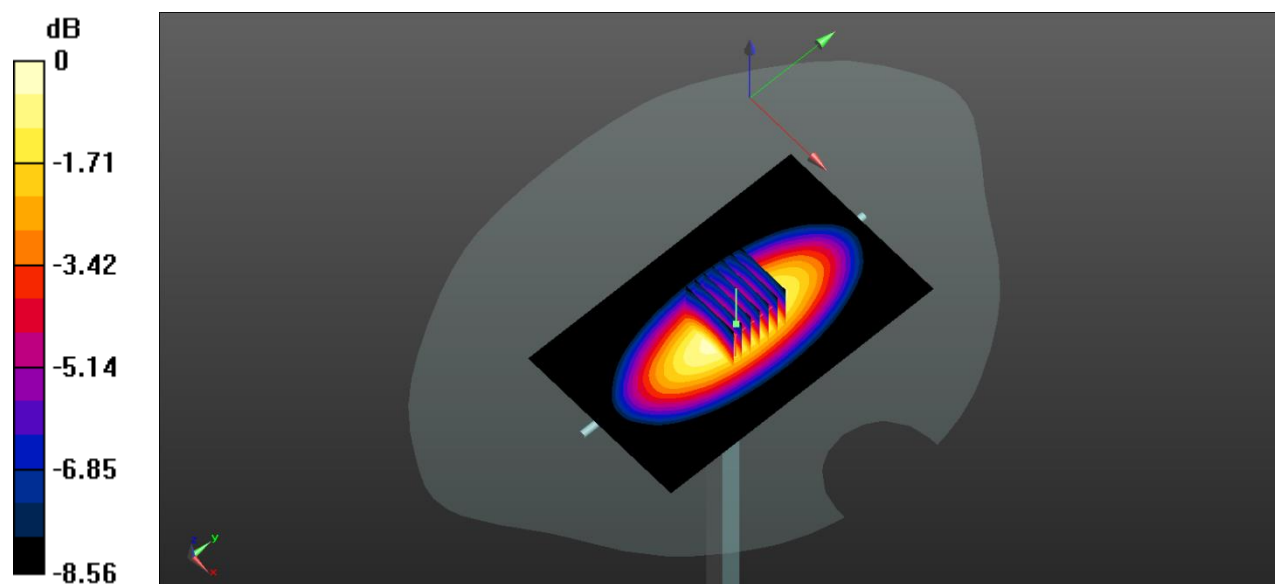
**CW 835/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.01 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.21 W/kg

**SAR(1 g) = 0.964 W/kg; SAR(10 g) = 0.621 W/kg**

Maximum value of SAR (measured) = 0.979 W/kg



0 dB = 0.979 W/kg



## System Performance Check Data (835MHz Head)

### System Check: Head 835 MHz

Date: 2022.06.15

Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.900 \text{ S/m}$ ;  $\epsilon_r = 41.770$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.7

### DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**CW 835/Area Scan (61x101x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.990 W/kg

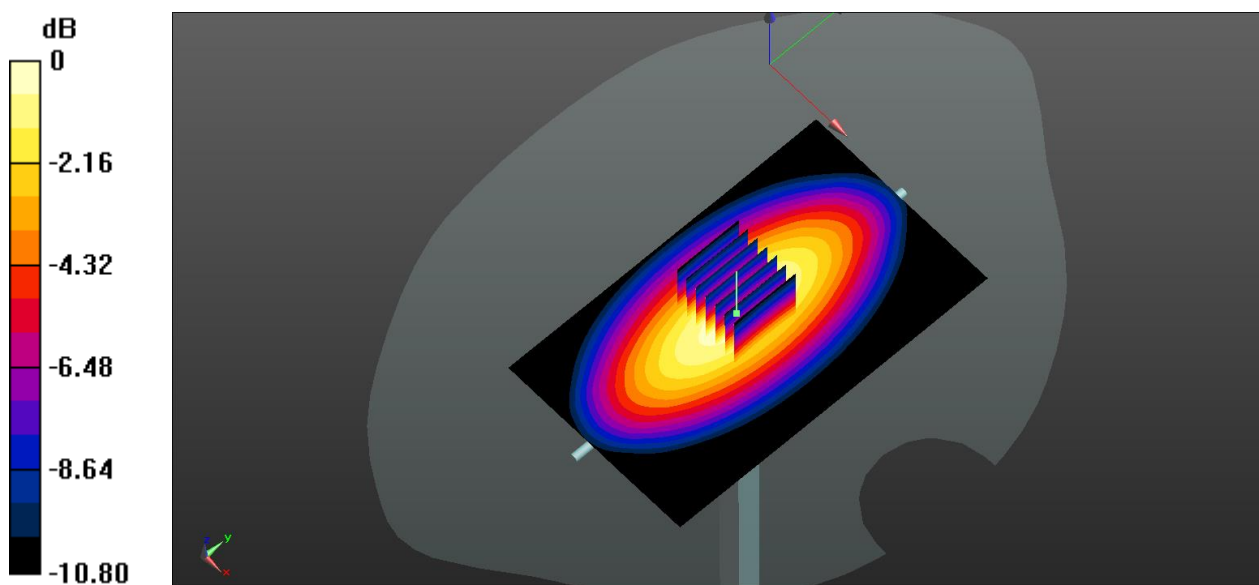
**CW 835/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 34.63 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.44 W/kg

**SAR(1 g) = 0.976 W/kg; SAR(10 g) = 0.627 W/kg**

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



0 dB = 1.07 W/kg

## System Performance Check Data (835MHz Head)

### System Check: Head 835 MHz

Date: 2022.07.02

Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.899$  S/m;  $\epsilon_r = 41.785$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.4

### DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**CW 835 100mW/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.977 W/kg

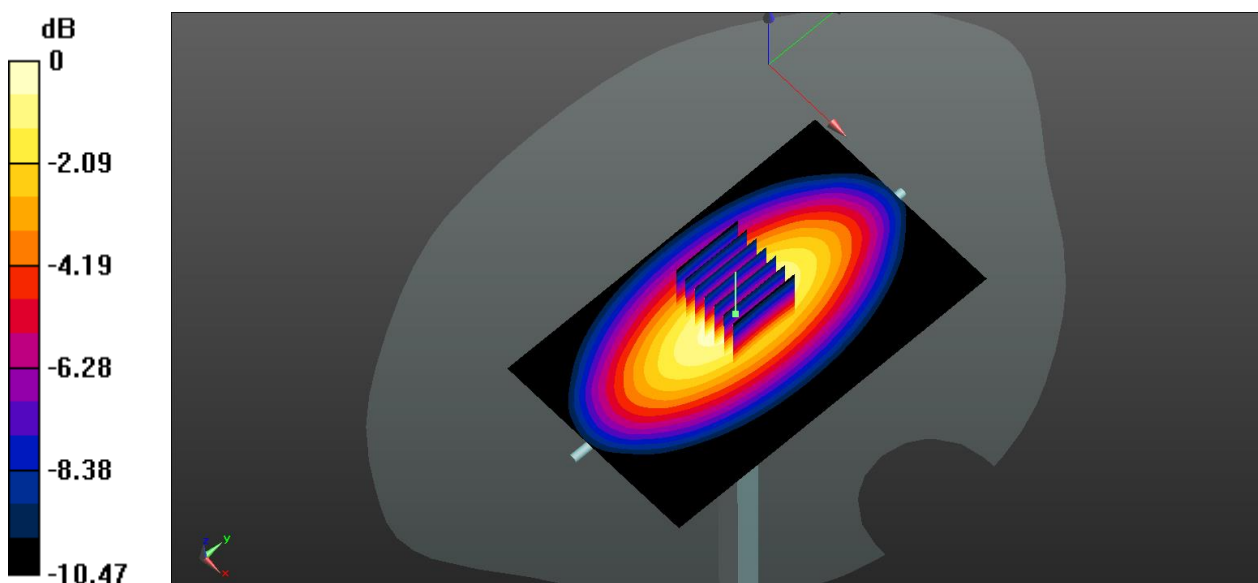
**CW 835 100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.04 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.26 W/kg

**SAR(1 g) = 0.964 W/kg; SAR(10 g) = 0.622 W/kg**

Maximum value of SAR (measured) = 0.984 W/kg



0 dB = 0.984 W/kg

## System Performance Check Data (1750MHz Head)

### System Check: Head 1750MHz

Date: 2022.06.16

Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1750$  MHz;  $\sigma = 1.383$  S/m;  $\epsilon_r = 40.241$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.51, 8.51, 8.51); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**CW 1750/Area Scan (101x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.18 W/kg

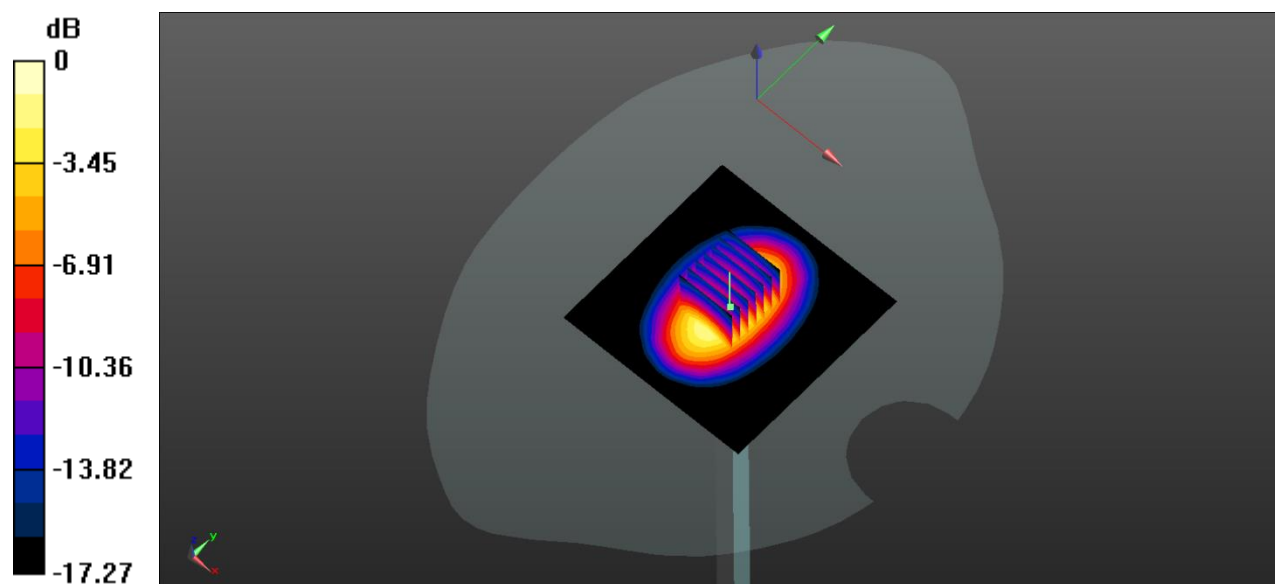
**CW 1750/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.03 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 6.97 W/kg

**SAR(1 g) = 3.68 W/kg; SAR(10 g) = 1.93 W/kg**

Maximum value of SAR (measured) = 4.17 W/kg



0 dB = 4.17 W/kg

## System Performance Check Data (1900MHz Head)

### System Check: Head 1900 MHz

Date: 2022.06.17

Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.400$  S/m;  $\epsilon_r = 39.885$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.1 Liquid Temperature: 21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**CW 1900/Area Scan (101x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.38 W/kg

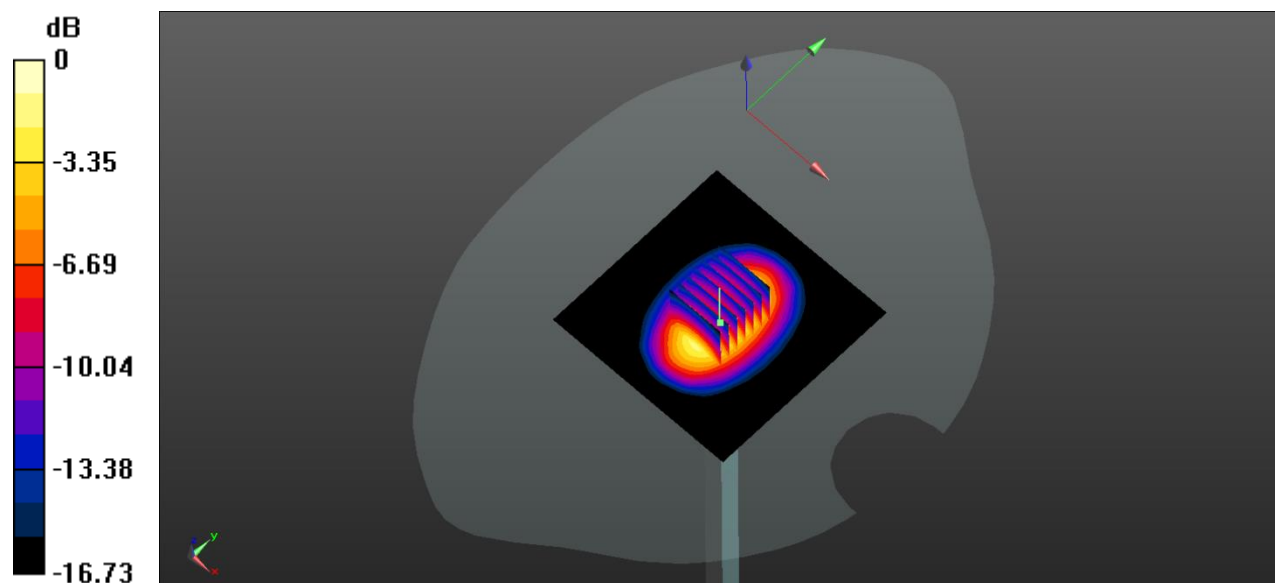
**CW 1900/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.95 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 7.01 W/kg

**SAR(1 g) = 3.96 W/kg; SAR(10 g) = 1.99 W/kg**

Maximum value of SAR (measured) = 4.38 W/kg



0 dB = 4.38 W/kg

## System Performance Check Data (1900MHz Head)

### System Check: Head 1900 MHz

Date: 2022.06.18

Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.396$  S/m;  $\epsilon_r = 39.763$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**CW 1900/Area Scan (101x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.58 W/kg

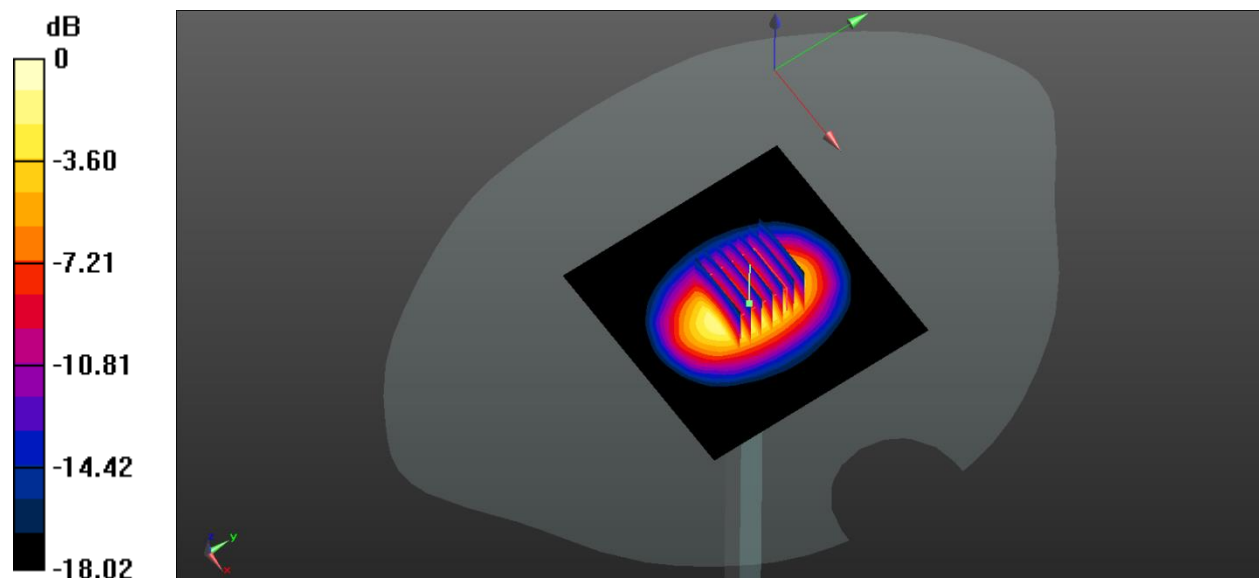
**CW 1900/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.86 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 7.49 W/kg

**SAR(1 g) = 3.98 W/kg; SAR(10 g) = 2.04 W/kg**

Maximum value of SAR (measured) = 4.48 W/kg



0 dB = 4.48 W/kg

## System Performance Check Data (1900MHz Head)

### System Check: Head 1900 MHz

Date: 2022.07.03

Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.398$  S/m;  $\epsilon_r = 39.923$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**CW 1900 100mw/Area Scan (101x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.71 W/kg

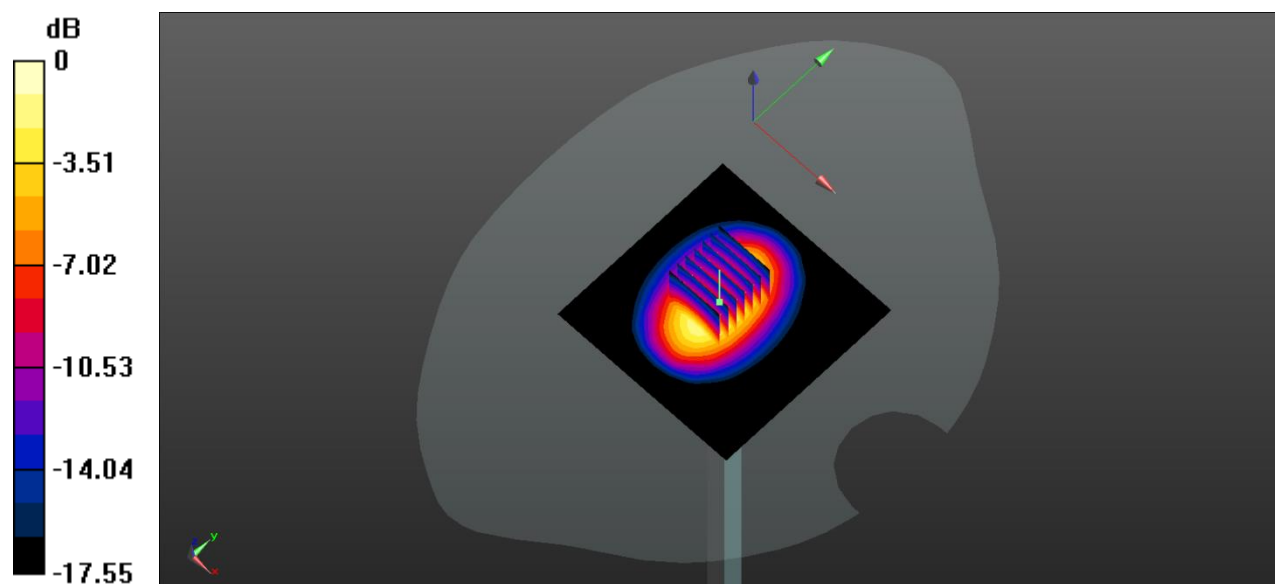
**CW 1900 100mw/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.12 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 8.12 W/kg

**SAR(1 g) = 4.01 W/kg; SAR(10 g) = 2.06 W/kg**

Maximum value of SAR (measured) = 4.71 W/kg



0 dB = 4.71 W/kg

## System Performance Check Data (2450MHz Head)

### System Check: Head 2450MHz

Date: 2022.06.20

Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.799$  S/m;  $\epsilon_r = 39.678$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**CW 2450/Area Scan (101x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.41 W/kg

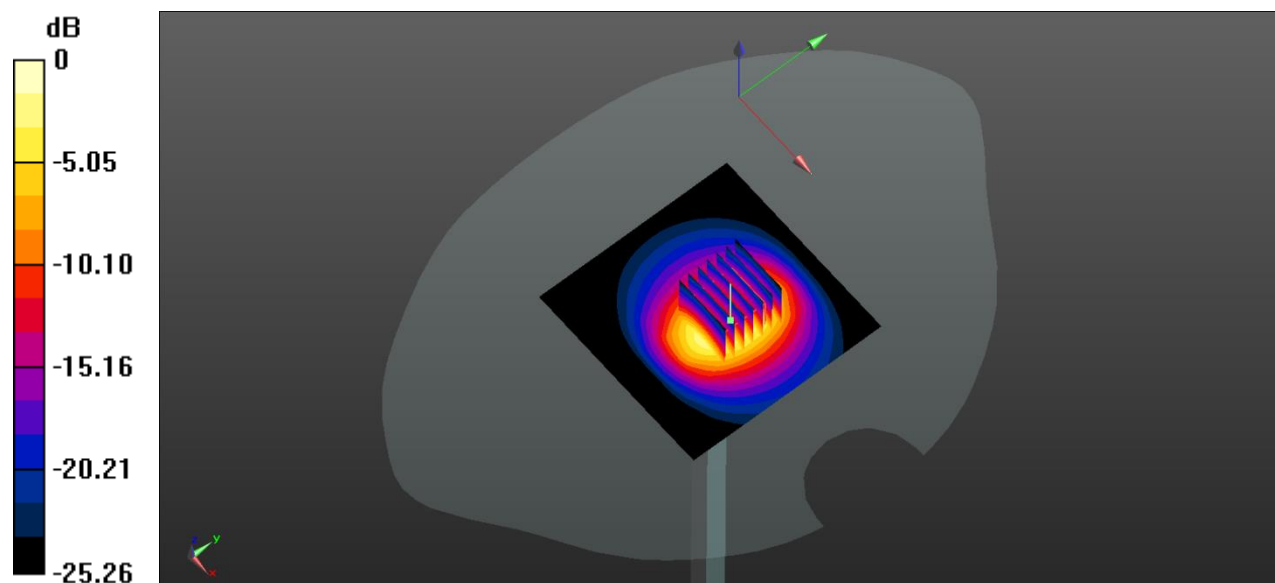
**CW 2450/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 46.45 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 13.2 W/kg

**SAR(1 g) = 5.29 W/kg; SAR(10 g) = 2.37 W/kg**

Maximum value of SAR (measured) = 6.28 W/kg



0 dB = 6.28 W/kg

## System Performance Check Data (2600MHz Head)

Date: 2022.06.21

Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used (extrapolated):  $f = 2600$  MHz;  $\sigma = 1.975$  S/m;  $\epsilon_r = 38.498$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.4, 7.4, 7.4); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**CW 2600 100mW /Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm**

Maximum value of SAR (interpolated) = 6.45 W/kg

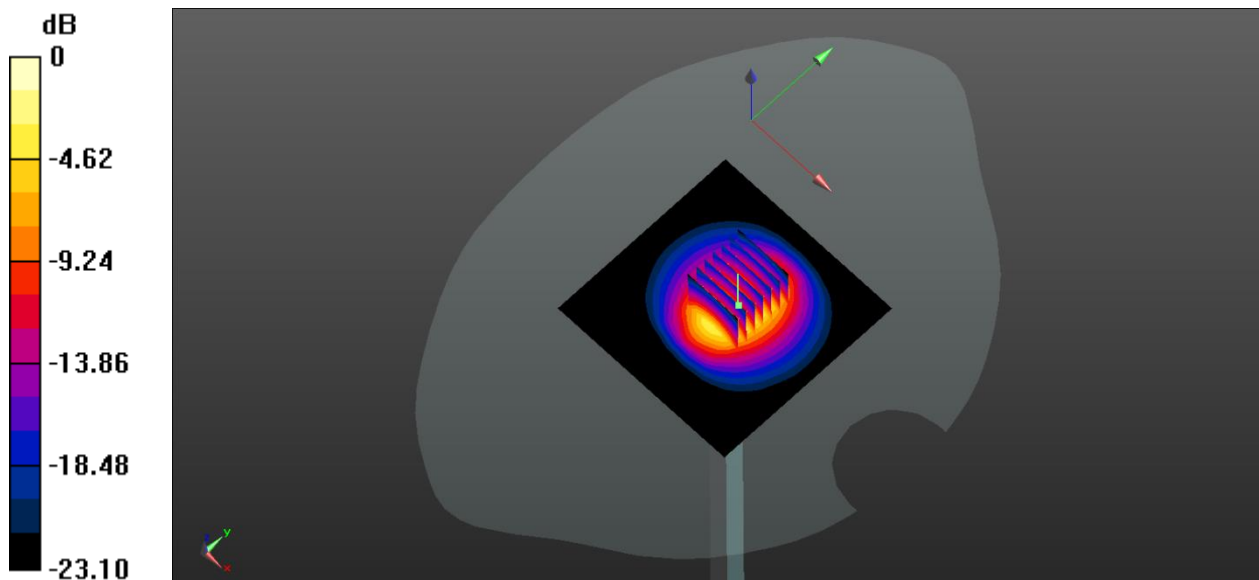
**CW 2600 100mW /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm**

Reference Value = 50.43 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 11.3 W/kg

**SAR(1 g) = 5.49 W/kg; SAR(10 g) = 2.41 W/kg**

Maximum value of SAR (measured) = 6.35 W/kg



0 dB = 6.35W/kg



## System Performance Check Data (2600MHz Head)

### System Check: Head 2600MHz

Date: 2022.06.22

Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used (extrapolated):  $f = 2600$  MHz;  $\sigma = 1.973$  S/m;  $\epsilon_r = 38.625$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.8 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.4, 7.4, 7.4); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**CW 2600 100mW /Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm**

Maximum value of SAR (interpolated) = 6.46 W/kg

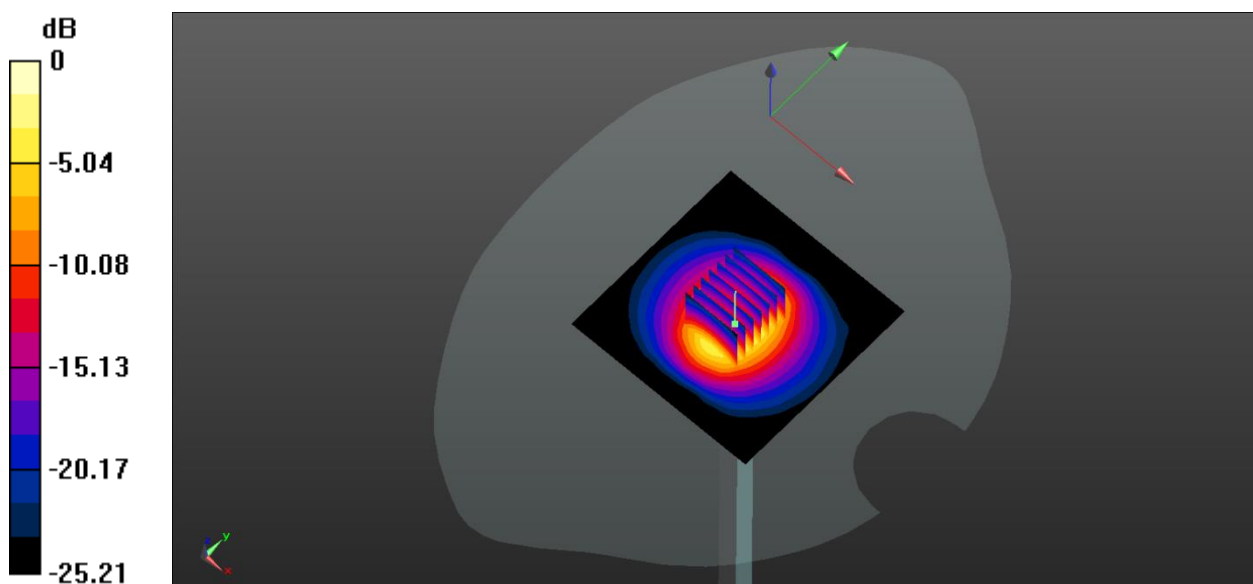
**CW 2600 100mW /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm**

Reference Value = 56.55 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 12.7 W/kg

**SAR(1 g) = 5.59 W/kg; SAR(10 g) = 2.45 W/kg**

Maximum value of SAR (measured) = 6.43 W/kg



0 dB = 6.43W/kg

# System Performance Check Data (2600MHz Head)

**System Check: Head 2600MHz**

Date: 2022.06.23

Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used (extrapolated):  $f = 2600 \text{ MHz}$ ;  $\sigma = 1.969 \text{ S/m}$ ;  $\epsilon_r = 38.622$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.8

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7510; ConvF(7.4, 7.4, 7.4); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**CW 2600 100mW /Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm**

Maximum value of SAR (interpolated) = 6.60 W/kg

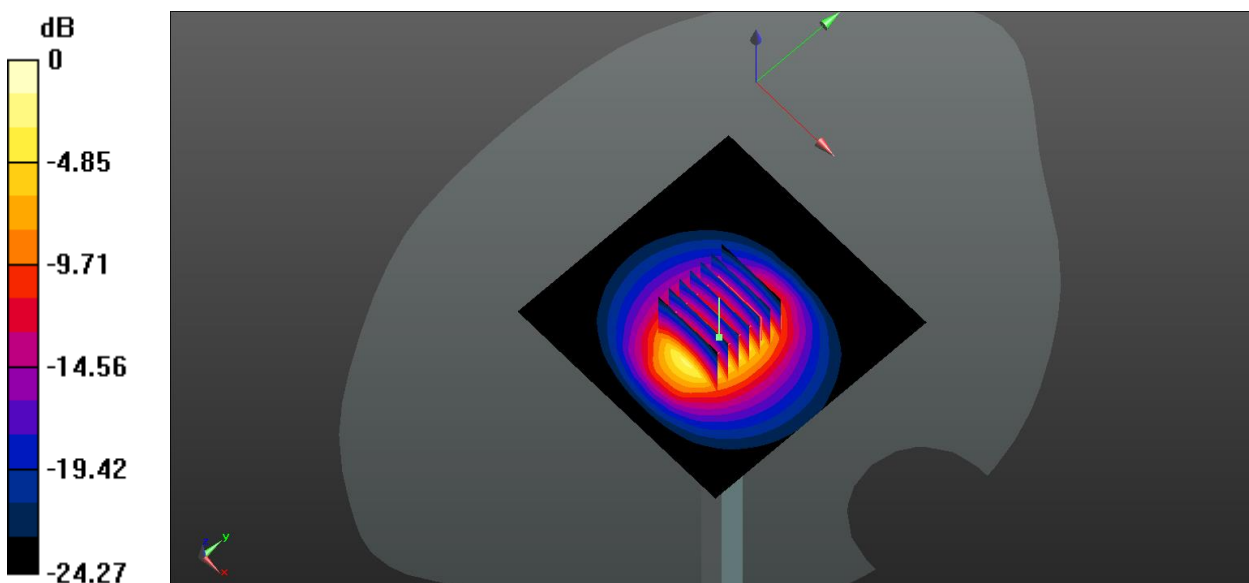
**CW 2600 100mW /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm**

Reference Value = 45.73 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 12.5 W/kg

**SAR(1 g) = 5.52 W/kg; SAR(10 g) = 2.43W/kg**

Maximum value of SAR (measured) = 6.49 W/kg



0 dB = 6.49W/kg

## System Performance Check Data (5250MHz Head)

### System Check: Head 5250 MHz

Date: 2022.06.24

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.705$  S/m;  $\epsilon_r = 35.743$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.42, 5.42, 5.42); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**CW 5250/Area Scan (101x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.39 W/kg

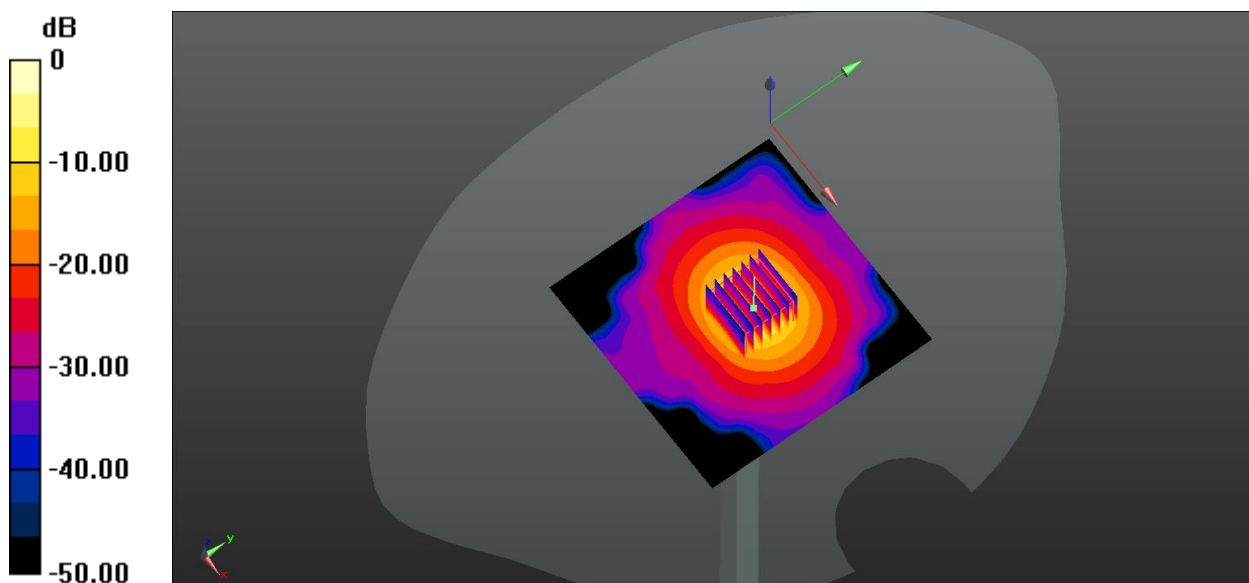
**CW 5250/Zoom Scan (7x7x21)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 37.06 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 33.2 W/kg

**SAR(1 g) = 7.81 W/kg; SAR(10 g) = 2.14 W/kg**

Maximum value of SAR (measured) = 19.7 W/kg



0 dB = 19.7 W/kg

## System Performance Check Data (5600MHz Head)

### System Check: Head 5600MHz

Date: 2022.06.24

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.058$  S/m;  $\epsilon_r = 35.178$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.81, 4.81, 4.81); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**CW 5600/Area Scan (101x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.36 W/kg

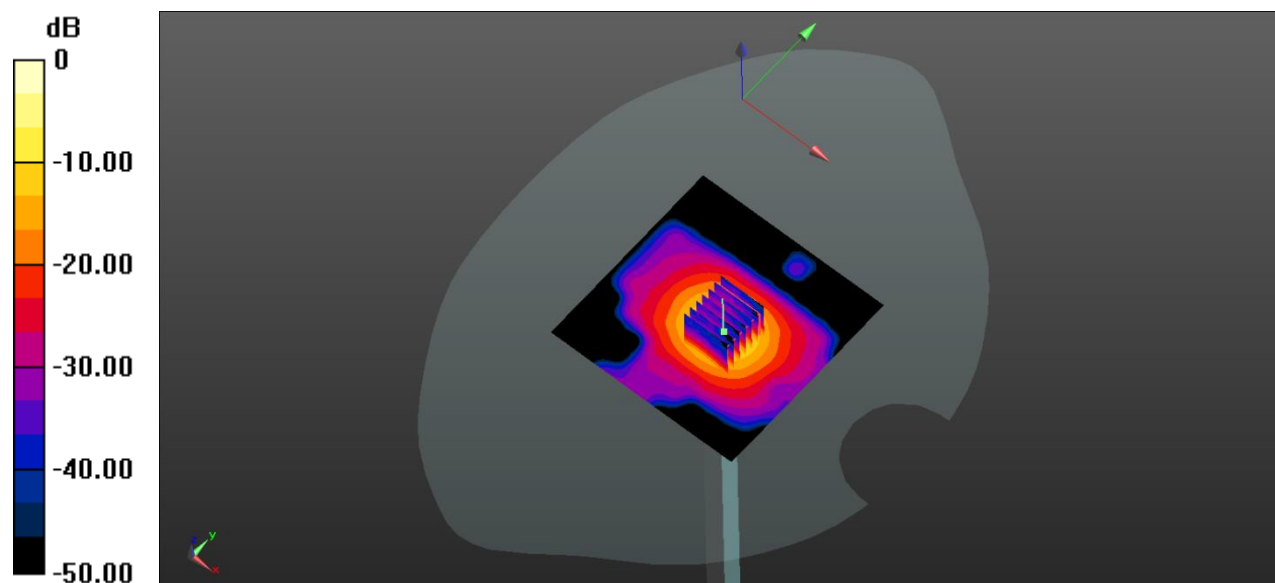
**CW 5600/Zoom Scan (7x7x21)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 34.67 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 38.53 W/kg

**SAR(1 g) = 8.2 W/kg; SAR(10 g) = 2.23 W/kg**

Maximum value of SAR (measured) = 21.49 W/kg



0 dB = 21.49 W/kg

## System Performance Check Data (5750MHz Head)

Date: 2022.06.24

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5750$  MHz;  $\sigma = 5.179$  S/m;  $\epsilon_r = 35.588$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.9, 4.9, 4.9); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**CW 5750/Area Scan (81x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.92 W/kg

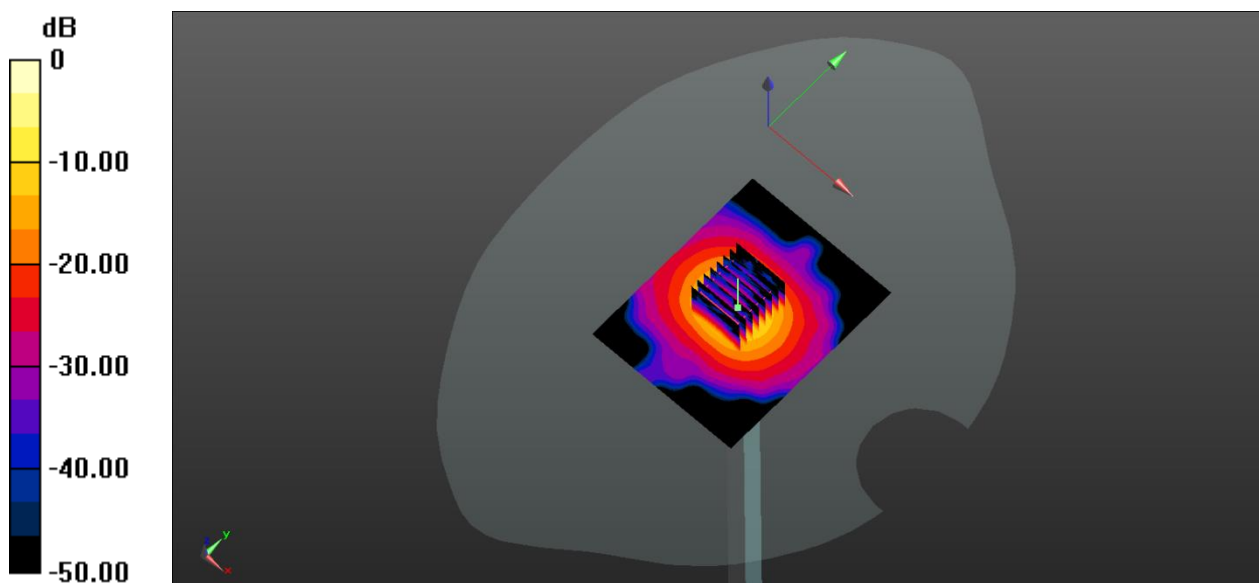
**CW 5750/Zoom Scan (7x7x15)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 40.19 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 36.7 W/kg

**SAR(1 g) = 8.02 W/kg; SAR(10 g) = 2.21 W/kg**

Maximum value of SAR (measured) = 15.98 W/kg



0 dB = 15.98 W/kg

## ANNEX C TEST DATA

### Meas.1 Right Head with Cheek on High Channel in GPRS850 1Slots mode with Antenna 4

Date: 2022.07.02

Communication System Band: GPRS850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.917$  S/m;  $\epsilon_r = 41.382$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature: 22.6 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch251/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.528 W/kg

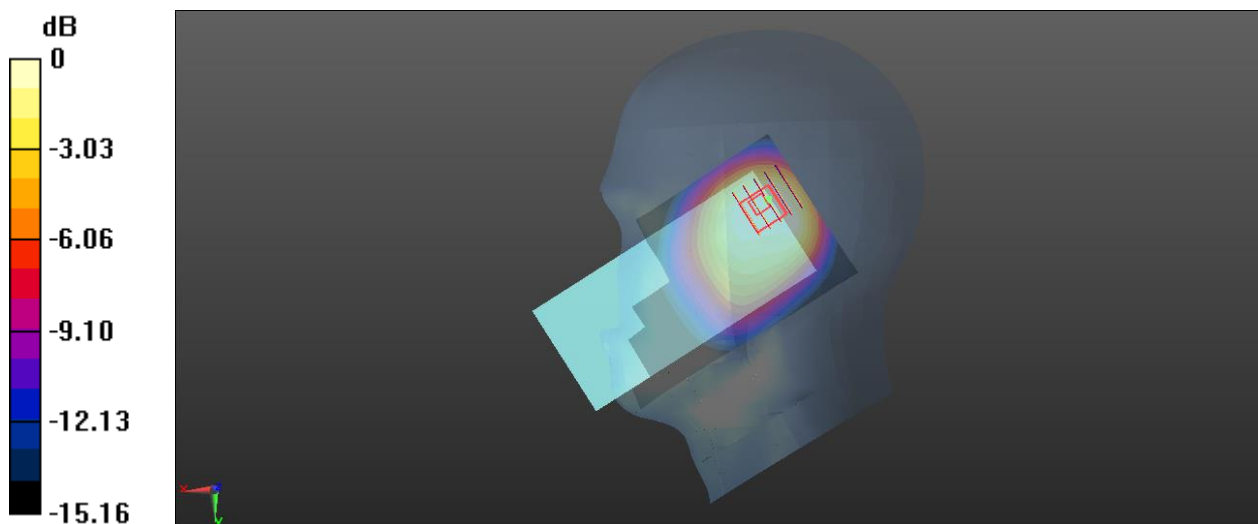
**Ch251/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.93 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.762 W/kg

**SAR(1 g) = 0.455 W/kg; SAR(10 g) = 0.289 W/kg**

Maximum value of SAR (measured) = 0.488 W/kg



0 dB = 0.488 W/kg

**Meas.2 Body Plane with Back 10mm on High Channel in GPRS850 2Slots mode with Antenna 1**

Date: 2022.07.02

Communication System Band: GPRS850; Frequency: 848.8 MHz; Duty Cycle: 1:4.1

Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.917$  S/m;  $\epsilon_r = 41.382$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch251/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.526 W/kg

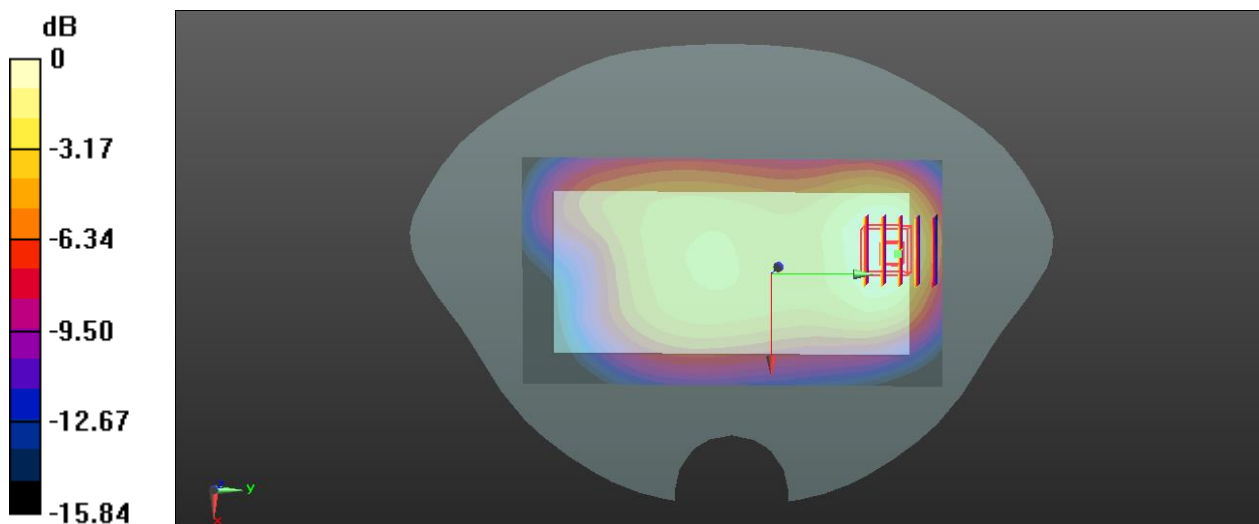
**Ch251/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.82 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.854 W/kg

**SAR(1 g) = 0.479 W/kg; SAR(10 g) = 0.289 W/kg**

Maximum value of SAR (measured) = 0.518 W/kg



0 dB = 0.518 W/kg

### Meas.3 Right Head with Tilt on Low Channel in GPRS1900 1Slots mode with Antenna 4

Date: 2022.07.03

Communication System Band: GPRS1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.374$  S/m;  $\epsilon_r = 40.553$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature:22.3 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch512/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.299 W/kg

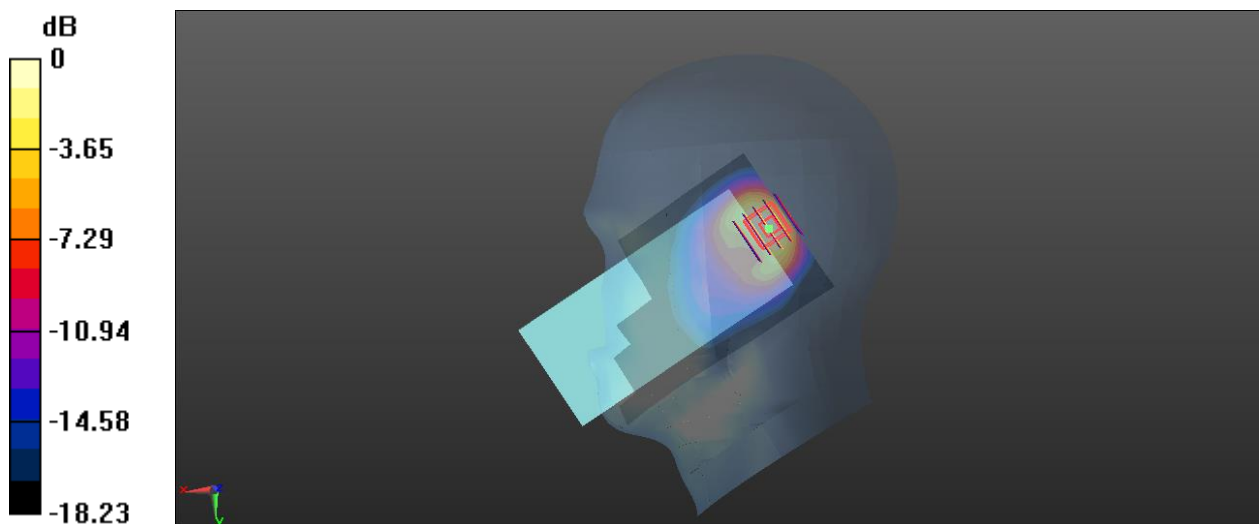
**Ch512/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.874 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.489 W/kg

**SAR(1 g) = 0.263 W/kg; SAR(10 g) = 0.131 W/kg**

Maximum value of SAR (measured) = 0.309 W/kg



0 dB = 0.204 W/kg



## Meas.4 Body Plane with Bottom Edge 10mm on Middle Channel in GPRS1900 1Slots mode with Antenna 1

Date: 2022.07.03

Communication System Band: GPRS1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.39$  S/m;  $\epsilon_r = 40.135$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch661/Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.302 W/kg

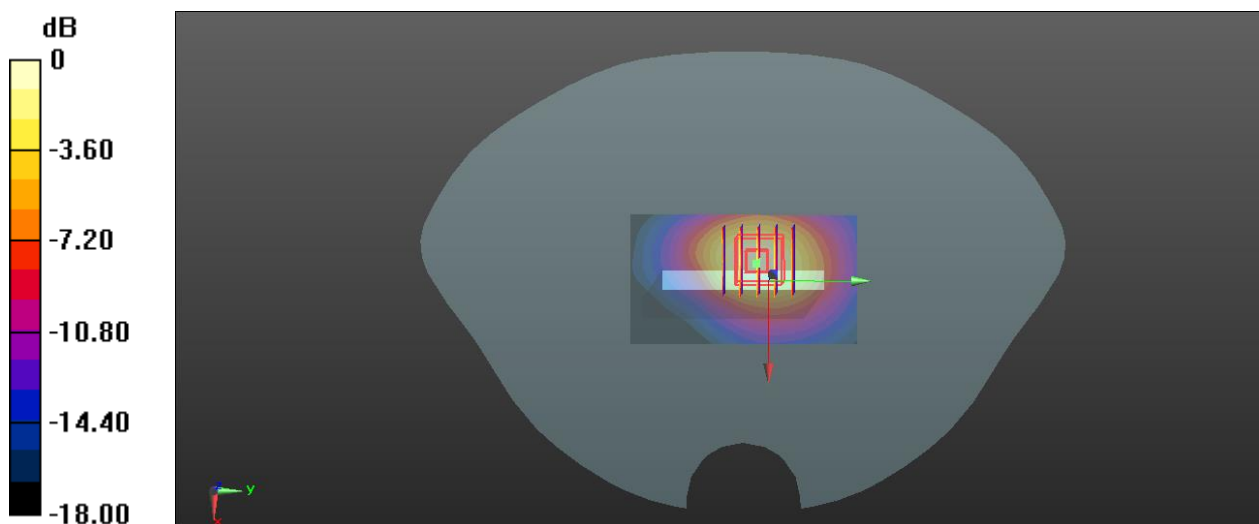
**Ch661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.63 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.436 W/kg

**SAR(1 g) = 0.262 W/kg; SAR(10 g) = 0.146 W/kg**

Maximum value of SAR (measured) = 0.292 W/kg



0 dB = 0.292 W/kg

### Meas.5 Right Head with Tilt on Middle Channel in WCDMA Band2 mode with Antenna 4

Date: 2022.06.17

Communication System Band: Band 2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.39$  S/m;  $\epsilon_r = 40.135$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature: 22.1 Liquid Temperature: 21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch9400/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.362 W/kg

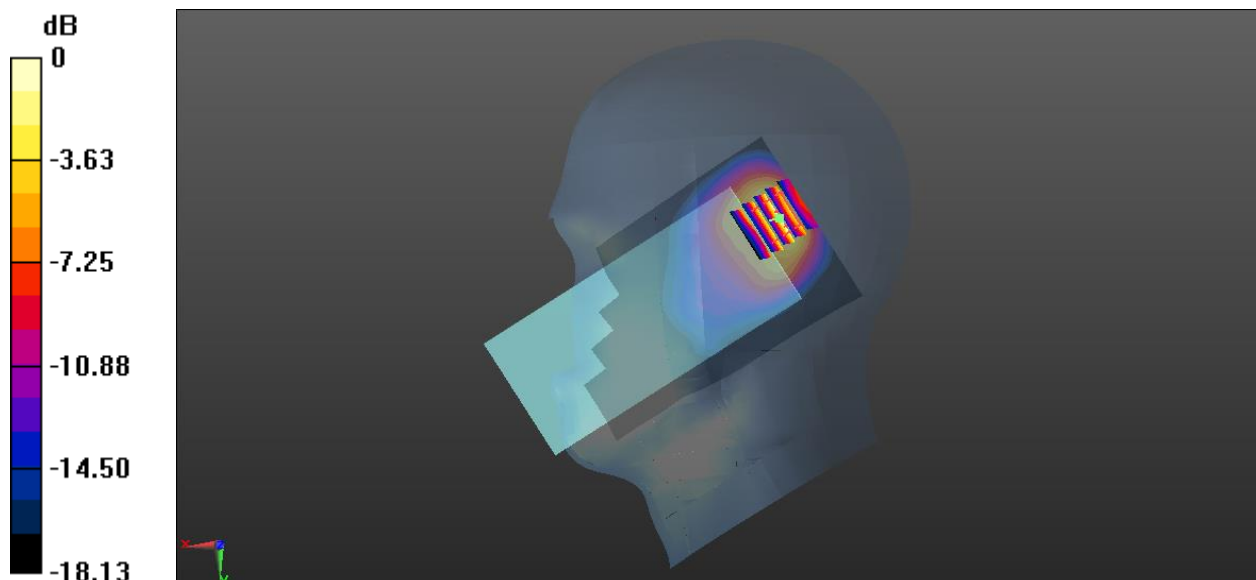
**Ch9400/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.180 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.573 W/kg

**SAR(1 g) = 0.302 W/kg; SAR(10 g) = 0.149 W/kg**

Maximum value of SAR (measured) = 0.355 W/kg



0 dB = 0.355 W/kg

**Meas.6 Body Plane with Bottom Edge 10mm on Middle Channel in WCDMA Band2 mode with Antenna 1**

Date: 2022.06.17

Communication System Band: Band 2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.39$  S/m;  $\epsilon_r = 40.135$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.1 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch9400/Area Scan (51x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.539 W/kg

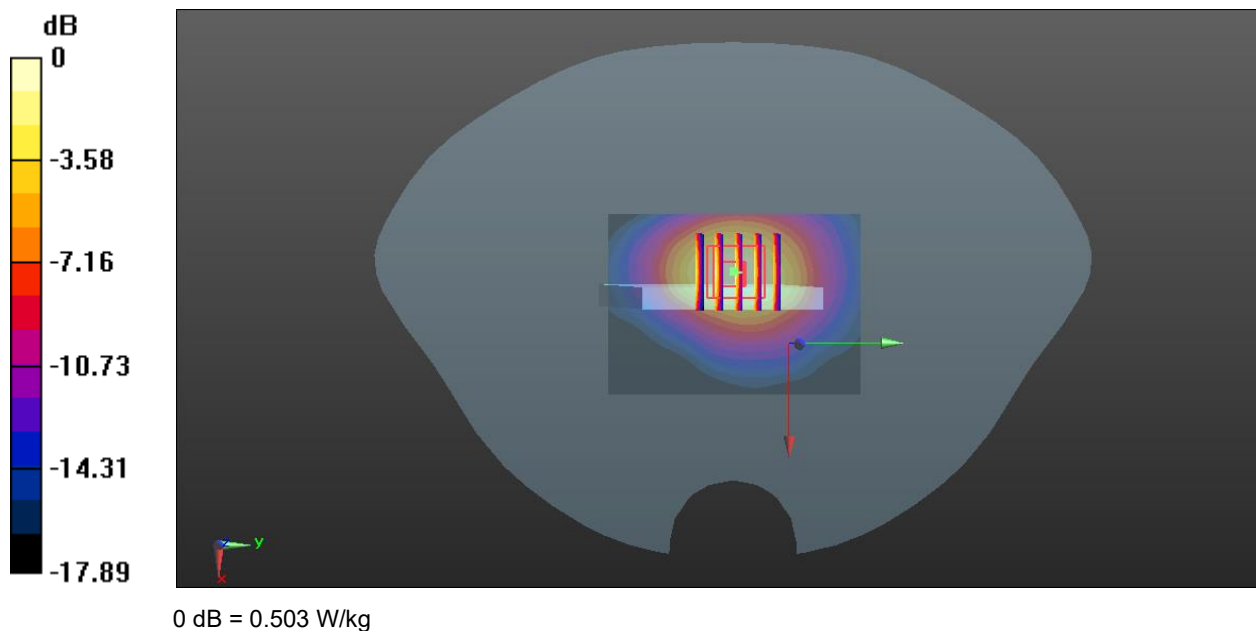
**Ch9400/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.47 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.742 W/kg

**SAR(1 g) = 0.450 W/kg; SAR(10 g) = 0.249 W/kg**

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



**Meas.7 Body Plane with Back Side 0mm on Middle Channel in WCDMA Band2 mode with Antenna 1**

Date: 2022.06.17

Communication System Band: Band 2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.39$  S/m;  $\epsilon_r = 40.135$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.1 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch9400/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.72 W/kg

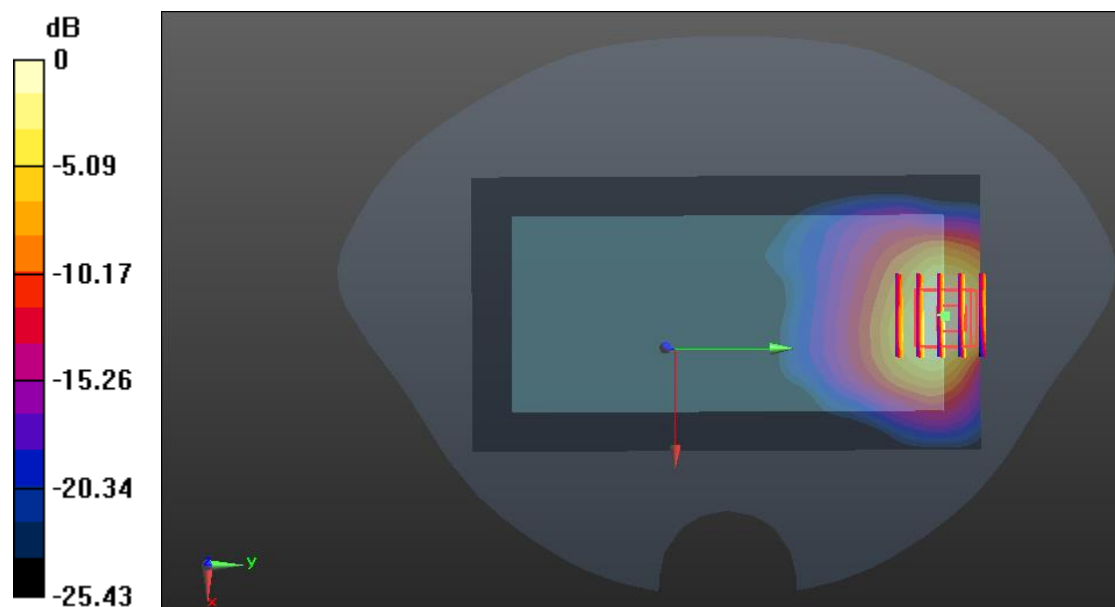
**Ch9400/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.479 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 4.92 W/kg

**SAR(1 g) = 2.09 W/kg; SAR(10 g) = 0.938 W/kg**

Maximum value of SAR (measured) = 2.33 W/kg



0 dB = 2.33 W/kg

**Meas.8 Right Head with Tilt on Middle Channel in WCDMA Band4 mode with Antenna 4**

Date: 2022.06.16

Communication System Band: Band 4; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.4$  MHz;  $\sigma = 1.363$  S/m;  $\epsilon_r = 40.496$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.51, 8.51, 8.51); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch1412/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.517 W/kg

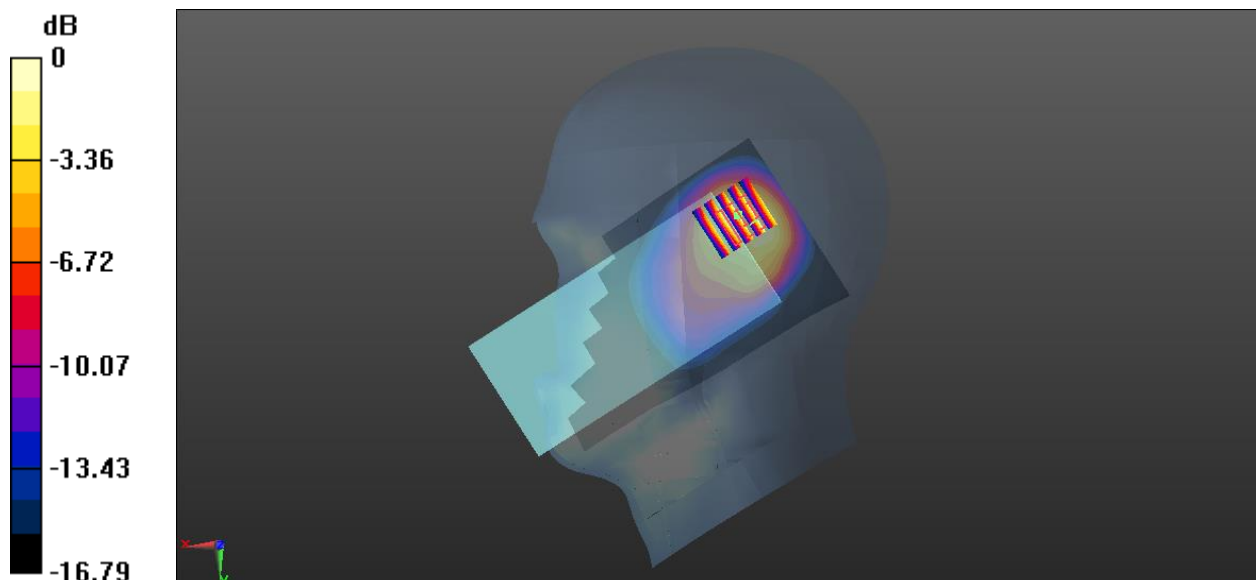
**Ch1412/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.31 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.840 W/kg

**SAR(1 g) = 0.457 W/kg; SAR(10 g) = 0.248 W/kg**

Maximum value of SAR (measured) = 0.499 W/kg



0 dB = 0.499 W/kg

**Meas.9 Body Plane with Bottom Edge 10mm on Middle Channel in WCDMA Band4 mode with Antenna 1**

Date: 2022.06.16

Communication System Band: Band 4; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.4$  MHz;  $\sigma = 1.363$  S/m;  $\epsilon_r = 40.496$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.51, 8.51, 8.51); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch1412/Area Scan (51x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.655 W/kg

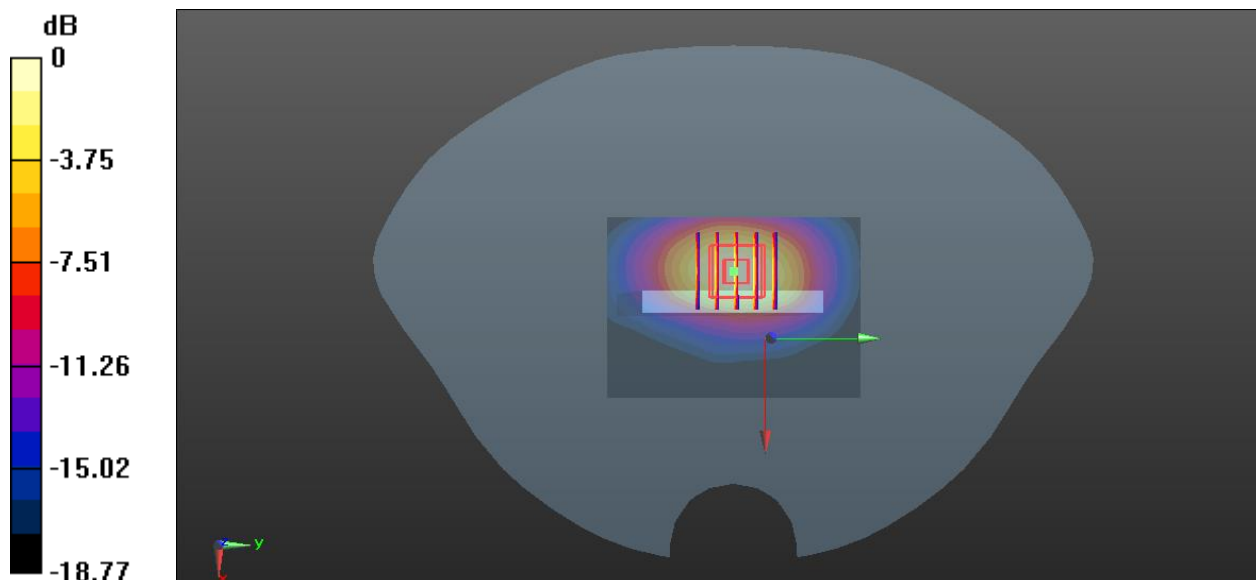
**Ch1412/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.69 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.873 W/kg

**SAR(1 g) = 0.521 W/kg; SAR(10 g) = 0.280 W/kg**

Maximum value of SAR (measured) = 0.586 W/kg



0 dB = 0.586 W/kg

**Meas.10 Body Plane with Back Side 0mm on Middle Channel in WCDMA Band4 mode with Antenna 1**

Date: 2022.06.16

Communication System Band: Band 4; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.4$  MHz;  $\sigma = 1.363$  S/m;  $\epsilon_r = 40.496$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.51, 8.51, 8.51); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch1412/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.10 W/kg

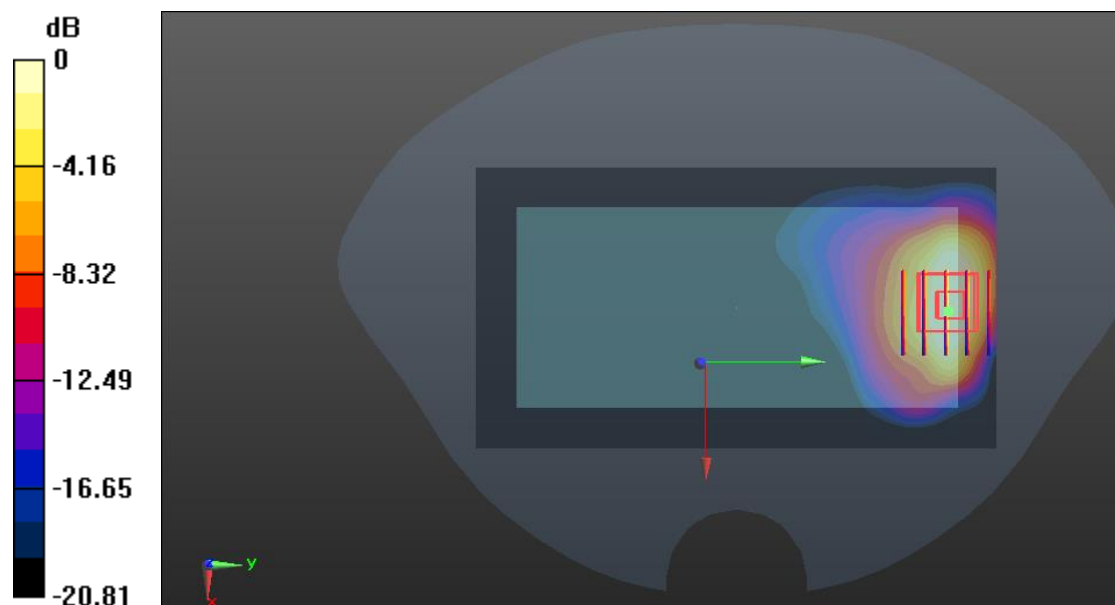
**Ch1412/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 3.94 W/kg

**SAR(1 g) = 1.82 W/kg; SAR(10 g) = 0.886 W/kg**

Maximum value of SAR (measured) = 2.10 W/kg



0 dB = 2.10 W/kg

**Meas.11 Right Head with Tilt on Middle Channel in WCDMA Band5 mode with Antenna 4**

Date: 2022.06.15

Communication System Band: Band 5; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.902$  S/m;  $\epsilon_r = 41.752$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature:22.5 Liquid Temperature:21.7

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch4182/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.282 W/kg

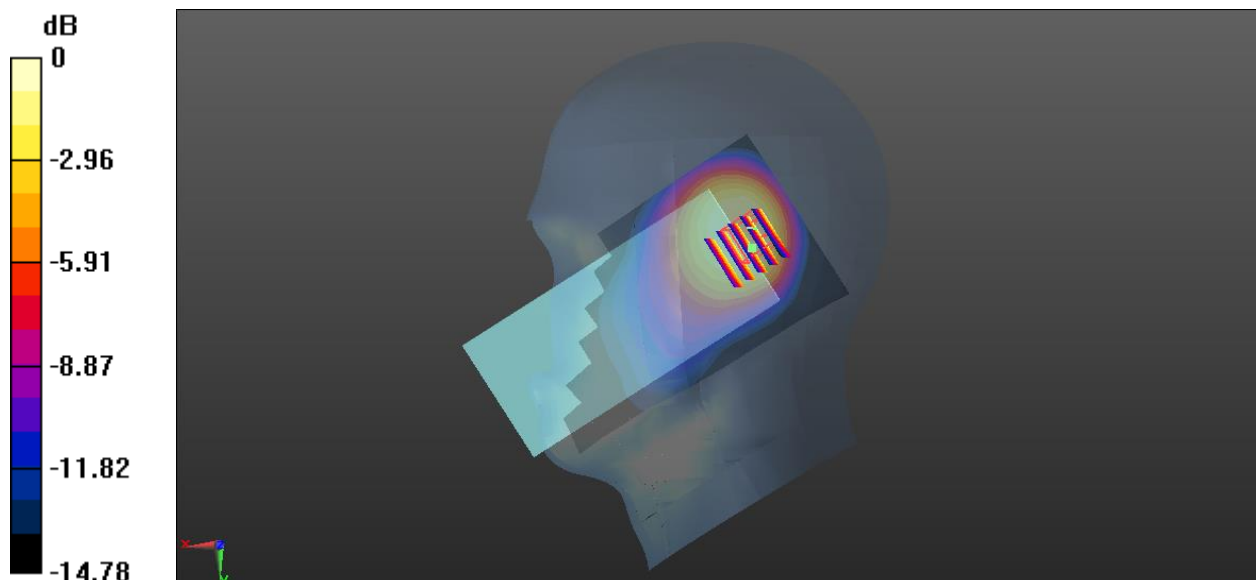
**Ch4182/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.50 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.624 W/kg

**SAR(1 g) = 0.287 W/kg; SAR(10 g) = 0.154 W/kg**

Maximum value of SAR (measured) = 0.329 W/kg



0 dB = 0.329 W/kg



**Meas.12 Body Plane with Back Side 10mm on Middle Channel in WCDMA Band5 mode with Antenna 4**

Date: 2022.06.15

Communication System Band: Band 5; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.902$  S/m;  $\epsilon_r = 41.752$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.7

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch4182/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.370 W/kg

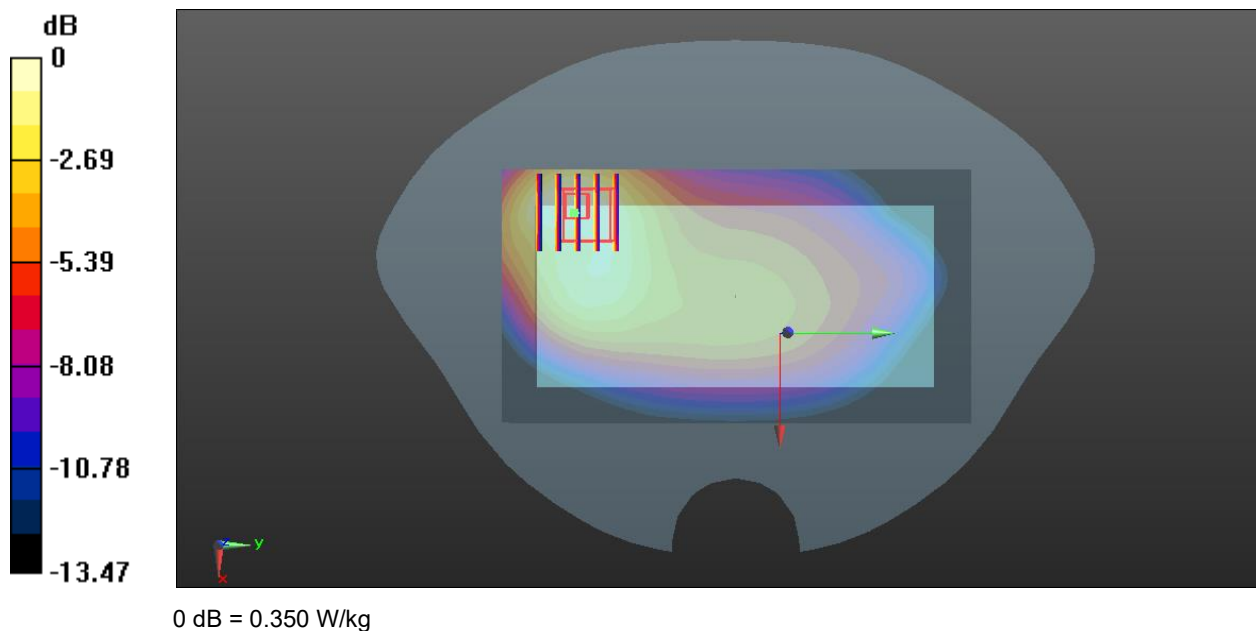
**Ch4182/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.47 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.550 W/kg

**SAR(1 g) = 0.329 W/kg; SAR(10 g) = 0.200 W/kg**

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



**Meas.13 Right Head with Tilt on Low Channel in LTE Band2 mode with Antenna 4**

Date: 2022.06.18

Communication System Band: Band 2; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1860$  MHz;  $\sigma = 1.376$  S/m;  $\epsilon_r = 40.246$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch18700/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.372 W/kg

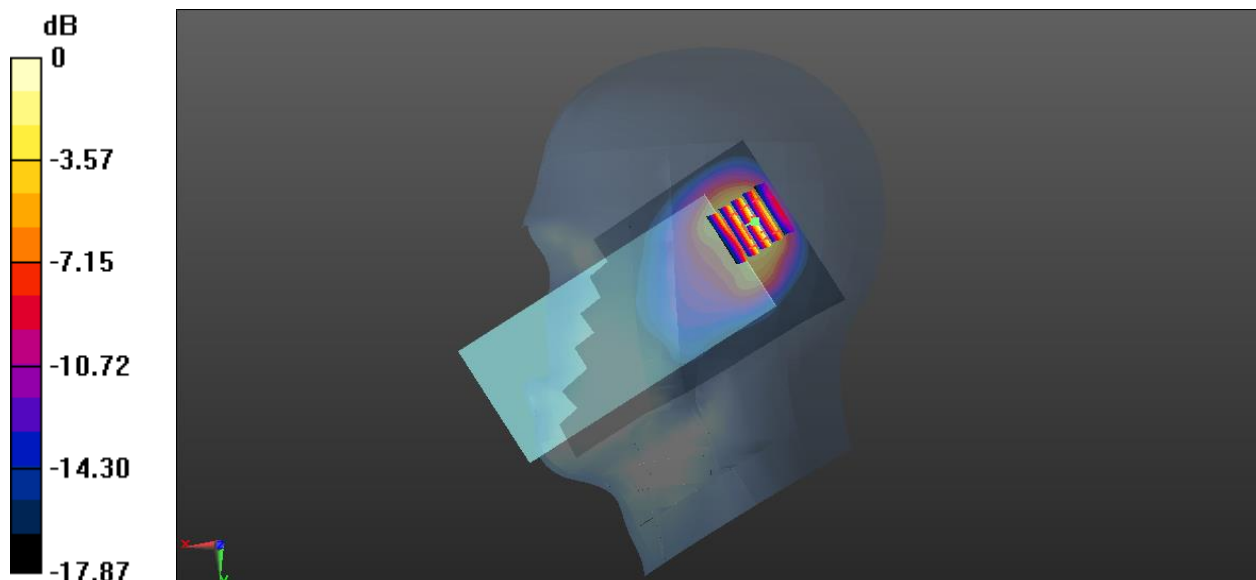
**Ch18700/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.273 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.699 W/kg

**SAR(1 g) = 0.367 W/kg; SAR(10 g) = 0.181 W/kg**

Maximum value of SAR (measured) = 0.419 W/kg



0 dB = 0.419 W/kg

### Meas.14 Body Plane with Bottom Edge 10mm on Low Channel in LTE Band2 mode with Antenna 1

Date: 2022.06.18

Communication System Band: Band 2; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1860$  MHz;  $\sigma = 1.376$  S/m;  $\epsilon_r = 40.246$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch18700/Area Scan (51x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.545 W/kg

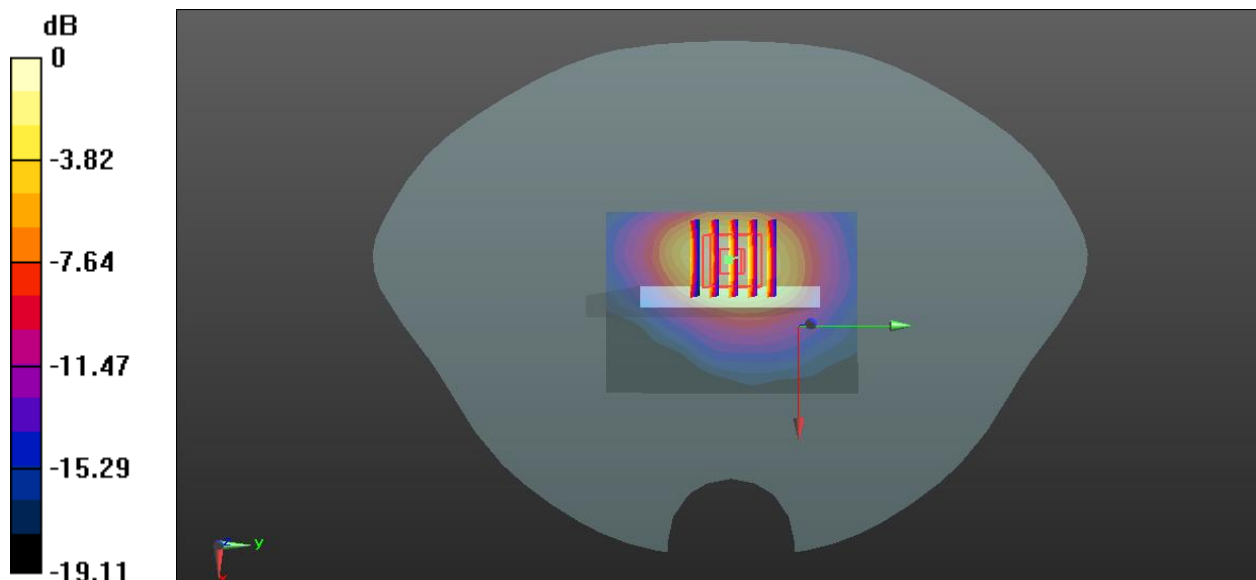
**Ch18700/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.24 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.772 W/kg

**SAR(1 g) = 0.464 W/kg; SAR(10 g) = 0.255 W/kg**

Maximum value of SAR (measured) = 0.518 W/kg



0 dB = 0.518 W/kg

**Meas.15 Body Plane with Back Side 0mm on Low Channel in LTE Band2 mode with Antenna 1**

Date: 2022.06.18

Communication System Band: Band 2; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1860$  MHz;  $\sigma = 1.376$  S/m;  $\epsilon_r = 40.246$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.13, 8.13, 8.13); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch18700/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.07 W/kg

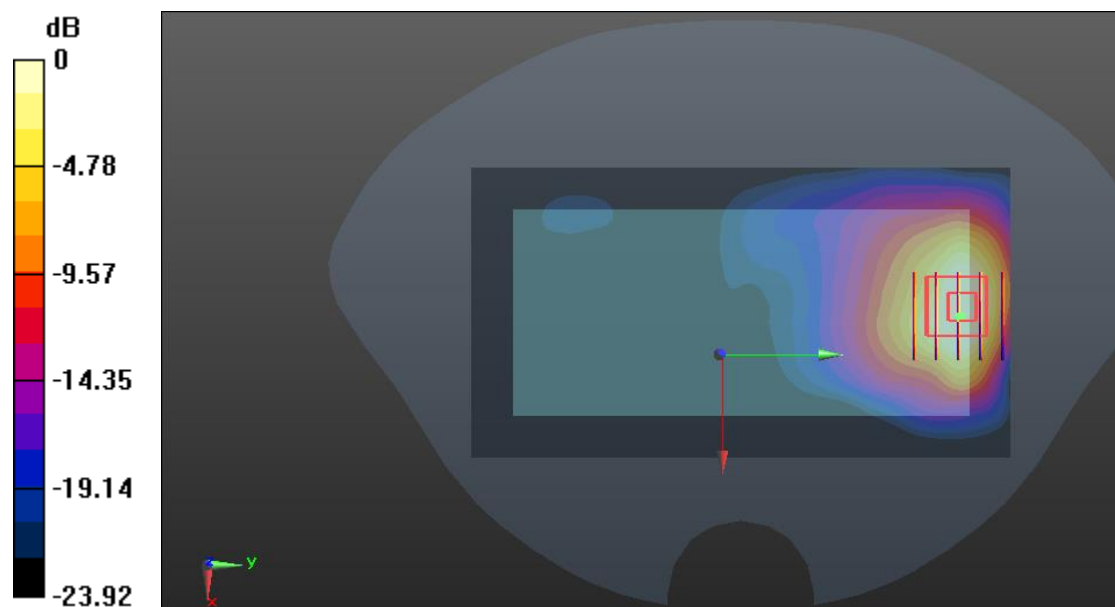
**Ch18700/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.899 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 4.91 W/kg

**SAR(1 g) = 2.14 W/kg; SAR(10 g) = 0.982 W/kg**

Maximum value of SAR (measured) = 2.37 W/kg



0 dB = 2.37 W/kg

**Meas.16 Right Head with Cheek on Low Channel in LTE Band4 mode with Antenna 4**

Date: 2022.06.16

Communication System Band: Band 4; Frequency: 1720 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1720$  MHz;  $\sigma = 1.355$  S/m;  $\epsilon_r = 40.664$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.51, 8.51, 8.51); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch20050/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

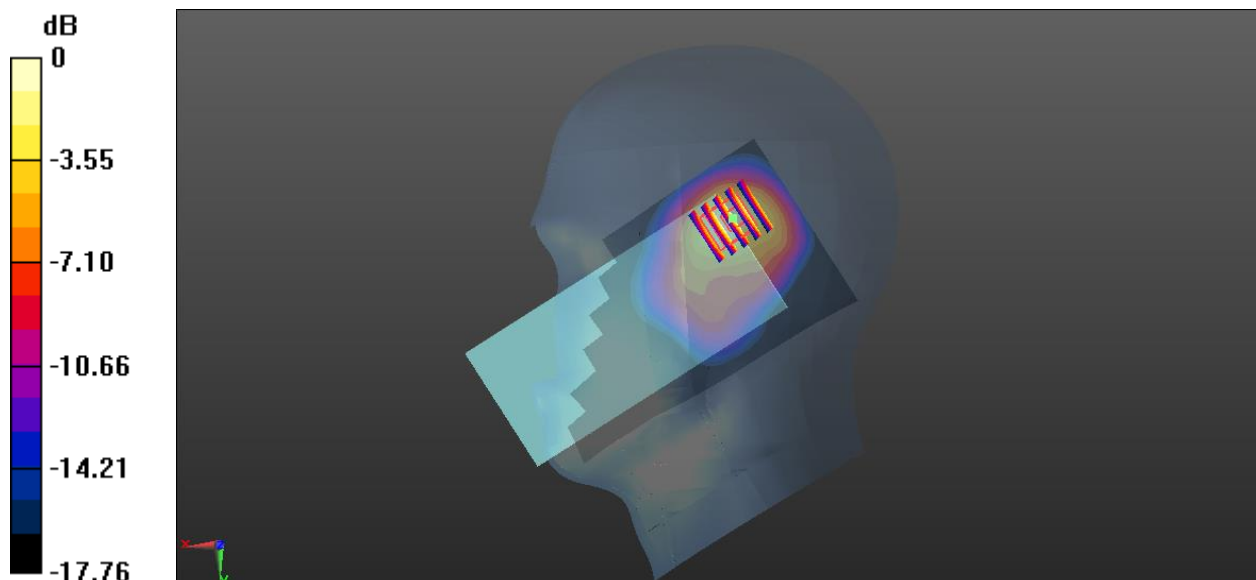
**Ch20050/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.630 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.743 W/kg

**SAR(1 g) = 0.427 W/kg; SAR(10 g) = 0.229 W/kg**

Maximum value of SAR (measured) = 0.474 W/kg



0 dB = 0.474 W/kg

### Meas.17 Body Plane with Bottom Edge 10mm on Middle Channel in LTE Band4 mode with Antenna 1

Date: 2022.06.16

Communication System Band: Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.368$  S/m;  $\epsilon_r = 40.472$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.51, 8.51, 8.51); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch20175/Area Scan (51x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.648 W/kg

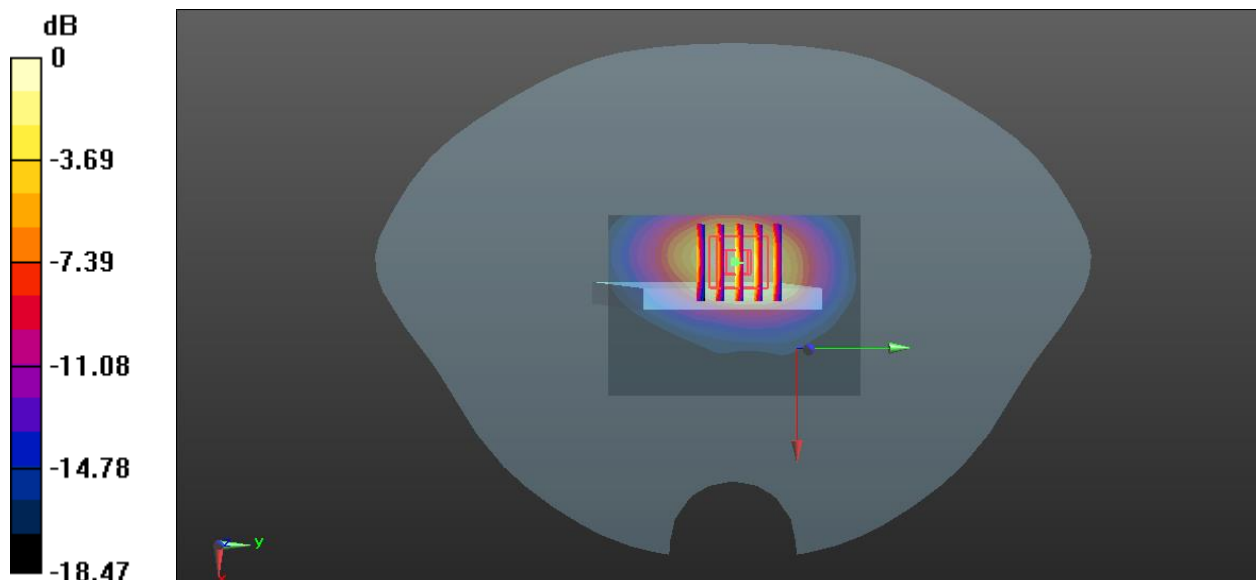
**Ch20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.07 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.910 W/kg

**SAR(1 g) = 0.538 W/kg; SAR(10 g) = 0.288 W/kg**

Maximum value of SAR (measured) = 0.605 W/kg



0 dB = 0.605 W/kg

**Meas.18 Body Plane with Back Side 0mm on Middle Channel in LTE Band4 mode with Antenna 1**

Date: 2022.06.16

Communication System Band: Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.368$  S/m;  $\epsilon_r = 40.472$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.51, 8.51, 8.51); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch20175/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.14 W/kg

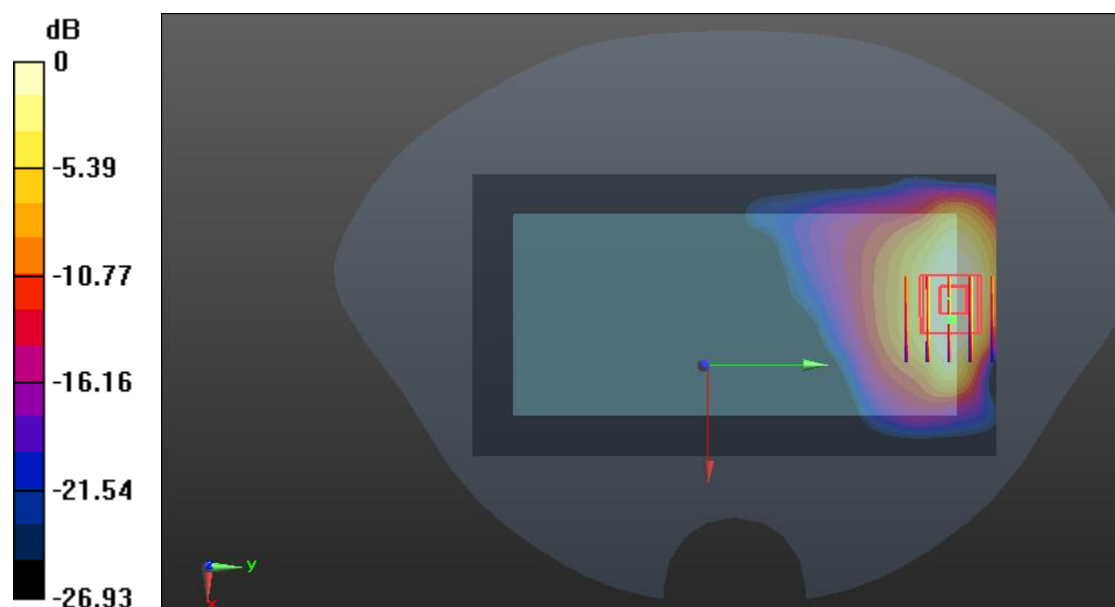
**Ch20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.197 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 3.83 W/kg

**SAR(1 g) = 1.8 W/kg; SAR(10 g) = 0.865 W/kg**

Maximum value of SAR (measured) = 2.13 W/kg



0 dB = 2.13 W/kg

**Meas.19 Right Head with Cheek on Middle Channel in LTE Band5 mode with Antenna 4**

Date: 2022.06.14

Communication System Band: Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.896$  S/m;  $\epsilon_r = 41.724$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature:22.2 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch20525/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.426 W/kg

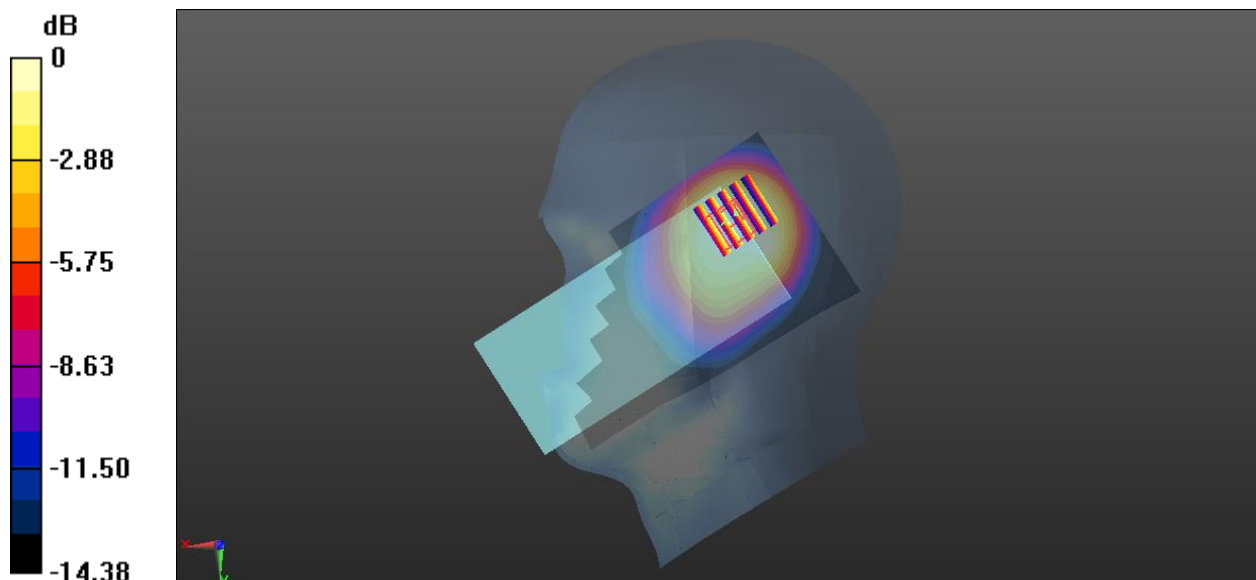
**Ch20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.77 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.580 W/kg

**SAR(1 g) = 0.356 W/kg; SAR(10 g) = 0.232 W/kg**

Maximum value of SAR (measured) = 0.382 W/kg



0 dB = 0.382 W/kg



**Meas.20 Body Plane with Back Side 10mm on Middle Channel in LTE Band5 mode with Antenna 4**

Date: 2022.06.14

Communication System Band: Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.896$  S/m;  $\epsilon_r = 41.724$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.72, 9.72, 9.72); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch20525/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.466 W/kg

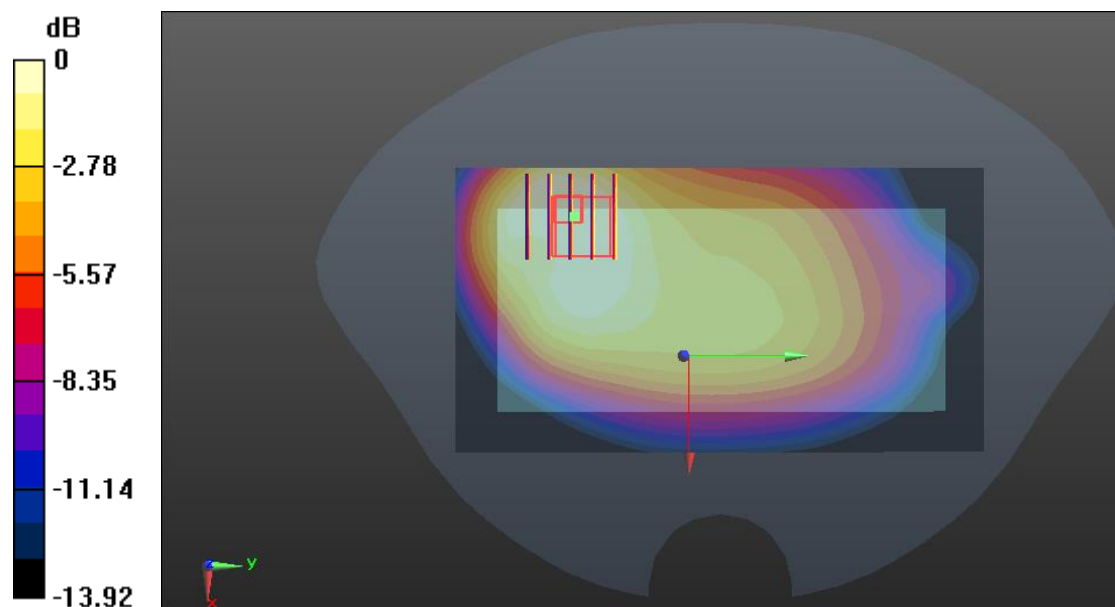
**Ch20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.60 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.567 W/kg

**SAR(1 g) = 0.332 W/kg; SAR(10 g) = 0.213 W/kg**

Maximum value of SAR (measured) = 0.370 W/kg



0 dB = 0.370 W/kg

**Meas.21 Right Head with Tilt on Middle Channel in LTE Band7 mode with Antenna 4**

Date: 2022.06.21

Communication System Band: Band 7; Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2535$  MHz;  $\sigma = 1.898$  S/m;  $\epsilon_r = 38.985$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature:22.5 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch21100/Area Scan (81x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.492 W/kg

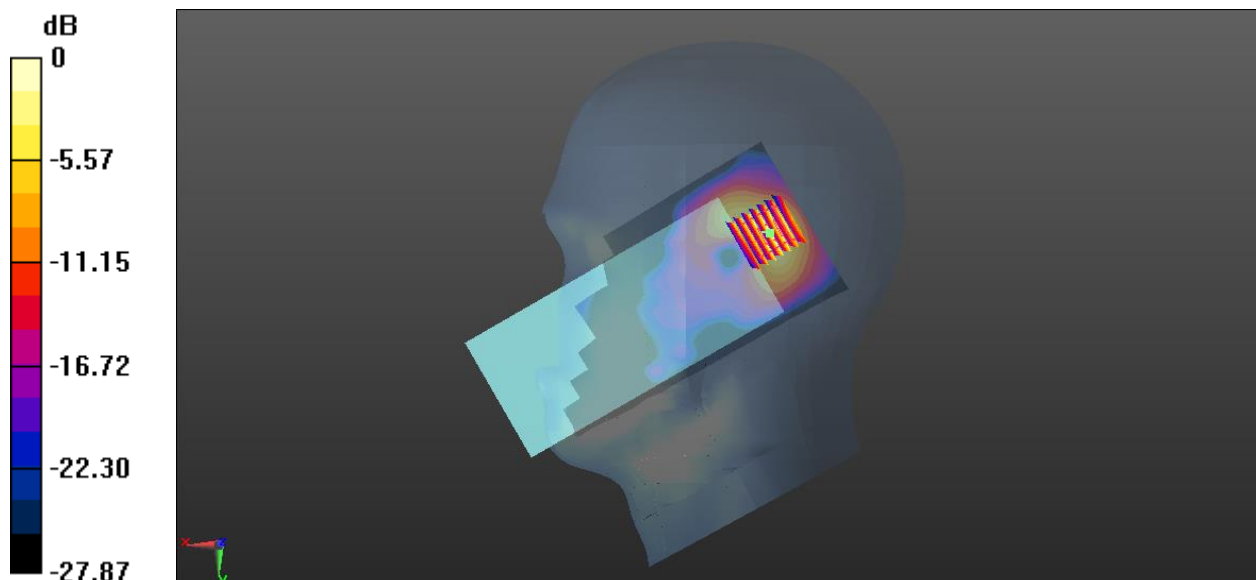
**Ch21100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.950 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.966 W/kg

**SAR(1 g) = 0.409 W/kg; SAR(10 g) = 0.170 W/kg**

Maximum value of SAR (measured) = 0.484 W/kg



0 dB = 0.484 W/kg

**Meas.22 Body Plane with Bottom Edge 10mm on Middle Channel in LTE Band7 mode with Antenna 1**

Date: 2022.06.21

Communication System Band: Band 7; Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2535$  MHz;  $\sigma = 1.898$  S/m;  $\epsilon_r = 38.985$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch21100/Area Scan (61x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.577 W/kg

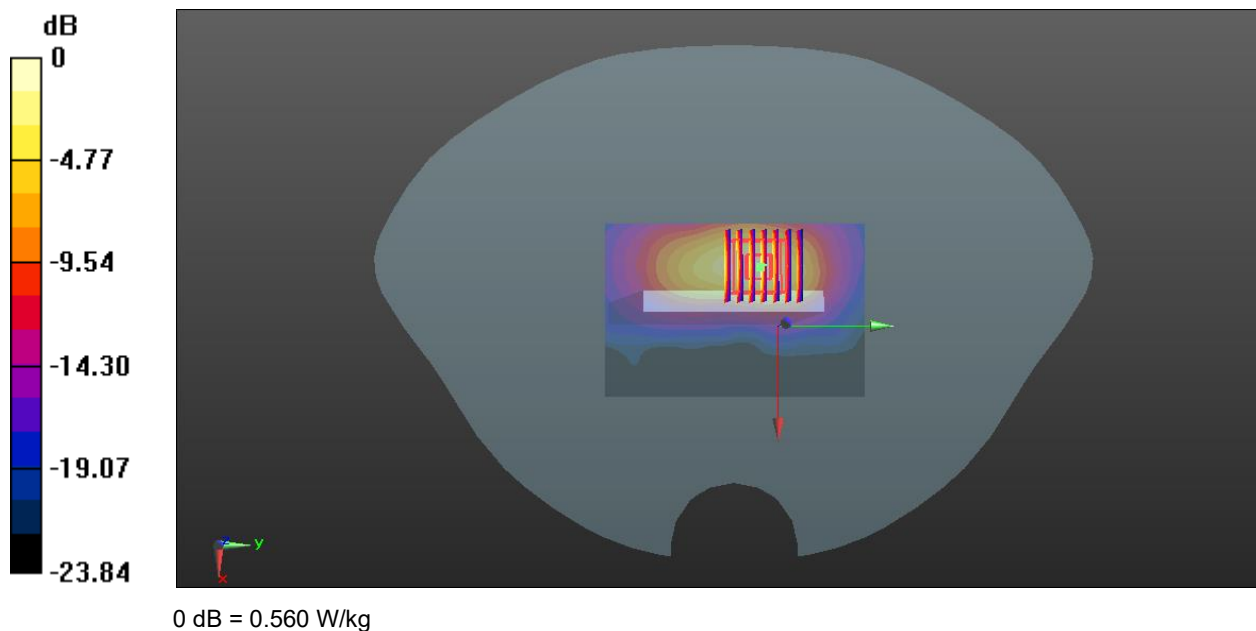
**Ch21100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.034 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.995 W/kg

**SAR(1 g) = 0.480 W/kg; SAR(10 g) = 0.213 W/kg**

Maximum value of SAR (measured) = 0.560 W/kg



**Meas.23 Body Plane with Bottom Edge 0mm on Middle Channel in LTE Band7 mode with Antenna 1**

Date: 2022.06.21

Communication System Band: Band 7; Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2535$  MHz;  $\sigma = 1.898$  S/m;  $\epsilon_r = 38.985$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch21100/Area Scan (51x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 6.74 W/kg

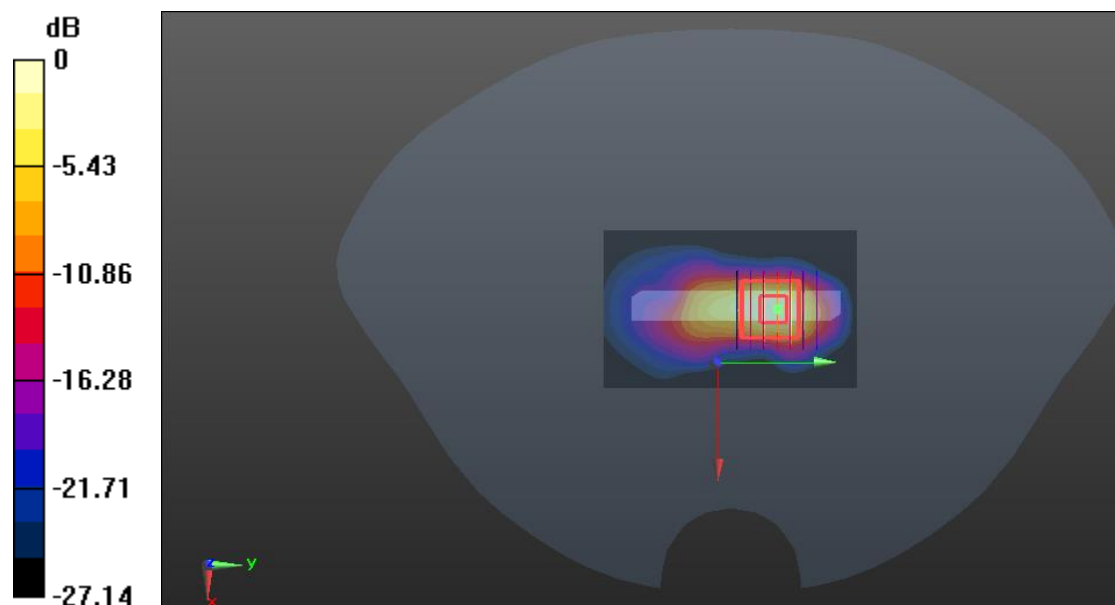
**Ch21100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 35.03 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 9.82 W/kg

**SAR(1 g) = 3.66 W/kg; SAR(10 g) = 1.26 W/kg**

Maximum value of SAR (measured) = 4.48 W/kg



0 dB = 4.48 W/kg

**Meas.24 Right Head with Tilt on Middle Channel in LTE Band38 mode with Antenna 4**

Date: 2022.06.22

Communication System Band: Band 38; Frequency: 2595 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated):  $f = 2595$  MHz;  $\sigma = 1.965$  S/m;  $\epsilon_r = 38.679$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature:22.8 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.4, 7.4, 7.4); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch38000/Area Scan (81x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.296 W/kg

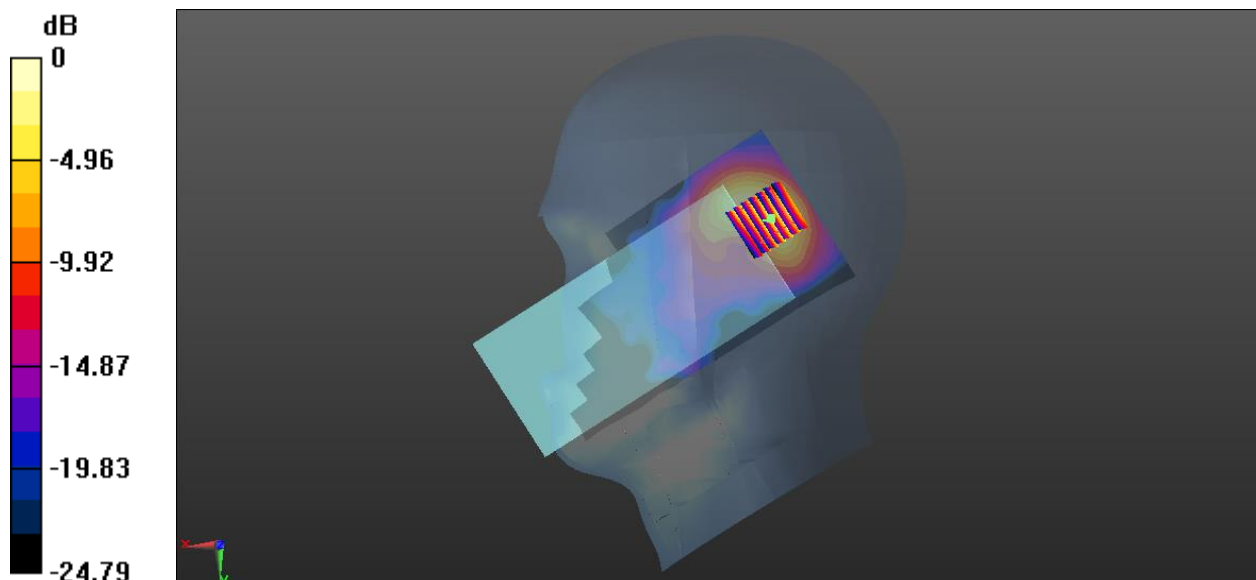
**Ch38000/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.313 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.625 W/kg

**SAR(1 g) = 0.257 W/kg; SAR(10 g) = 0.109 W/kg**

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



0 dB = 0.300 W/kg

**Meas.25 Body Plane with Bottom Edge 10mm on Low Channel in LTE Band38 mode with Antenna 1**

Date: 2022.06.22

Communication System Band: Band 38; Frequency: 2580 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated):  $f = 2580$  MHz;  $\sigma = 1.945$  S/m;  $\epsilon_r = 38.801$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.8 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.4, 7.4, 7.4); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch37850/Area Scan (61x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.523 W/kg

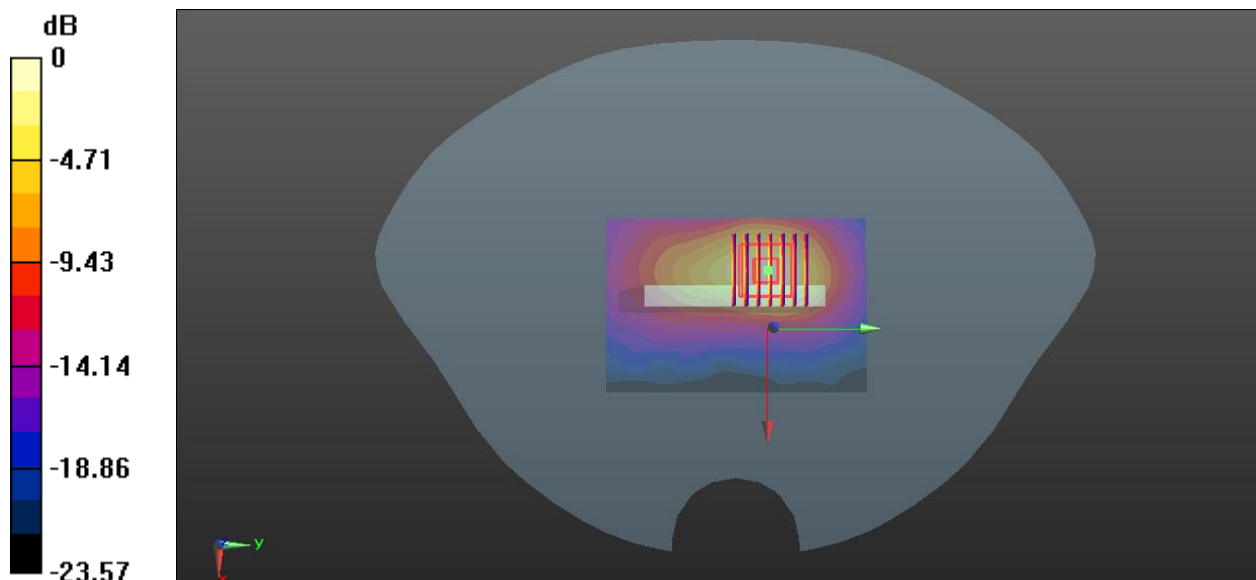
**Ch37850/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.723 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.870 W/kg

**SAR(1 g) = 0.523 W/kg; SAR(10 g) = 0.195 W/kg**

Maximum value of SAR (measured) = 0.499 W/kg



0 dB = 0.499 W/kg

**Meas.26 Body Plane with Bottom Edge 0mm on Low Channel in LTE Band38 mode with Antenna 1**

Date: 2022.06.22

Communication System Band: Band 38; Frequency: 2580 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated):  $f = 2580$  MHz;  $\sigma = 1.945$  S/m;  $\epsilon_r = 38.801$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.8 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.4, 7.4, 7.4); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch37850/Area Scan (81x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 4.57 W/kg

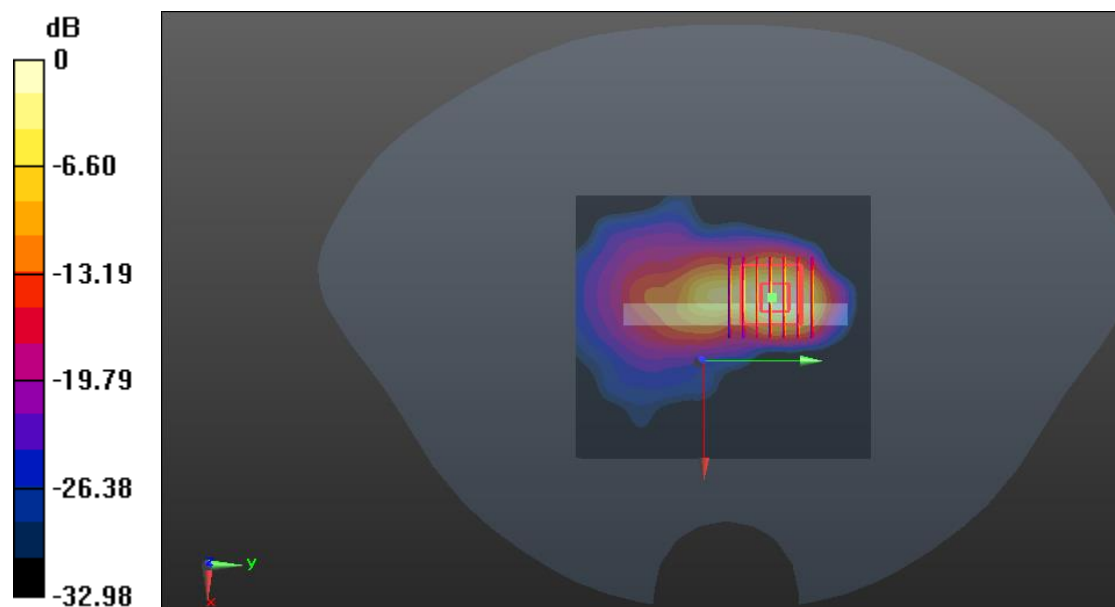
**Ch37850/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.02 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 10.2 W/kg

**SAR(1 g) = 3.75 W/kg; SAR(10 g) = 1.27 W/kg**

Maximum value of SAR (measured) = 4.61 W/kg



0 dB = 4.61 W/kg

**Meas.27 Right Head with Tilt on Low Channel in LTE Band41 mode with Antenna 4**

Date: 2022.06.23

Communication System Band: Band41; Frequency: 2506 MHz; Duty Cycle: 1:1 .58

Medium parameters used (interpolated):  $f = 2506$  MHz;  $\sigma = 1.861$  S/m;  $\epsilon_r = 39.325$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature:22.6 Liquid Temperature:21.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch39750/Area Scan (81x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.612 W/kg

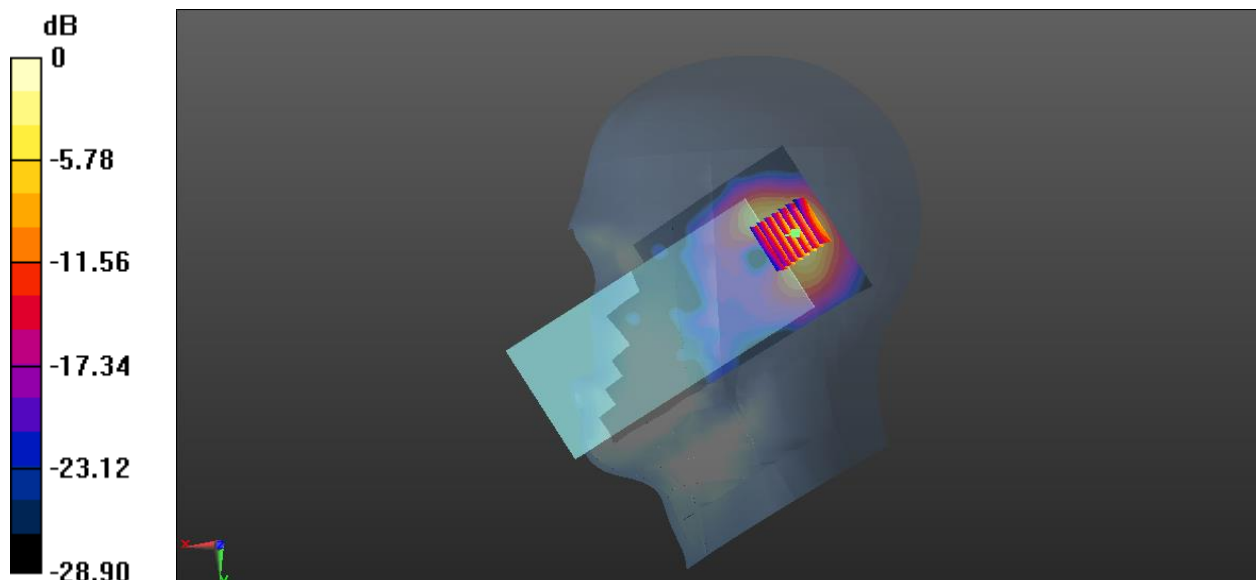
**Ch39750/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.066 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.13 W/kg

**SAR(1 g) = 0.486 W/kg; SAR(10 g) = 0.201 W/kg**

Maximum value of SAR (measured) = 0.576 W/kg



0 dB = 0.576 W/kg



**Meas.28 Body Plane with Bottom Edge 10mm on Low Channel in LTE Band41 mode with Antenna 1**

Date: 2022.06.23

Communication System Band: Band41; Frequency: 2506 MHz; Duty Cycle: 1:1 .58

Medium parameters used (interpolated):  $f = 2506$  MHz;  $\sigma = 1.861$  S/m;  $\epsilon_r = 39.325$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch39750/Area Scan (61x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.604 W/kg

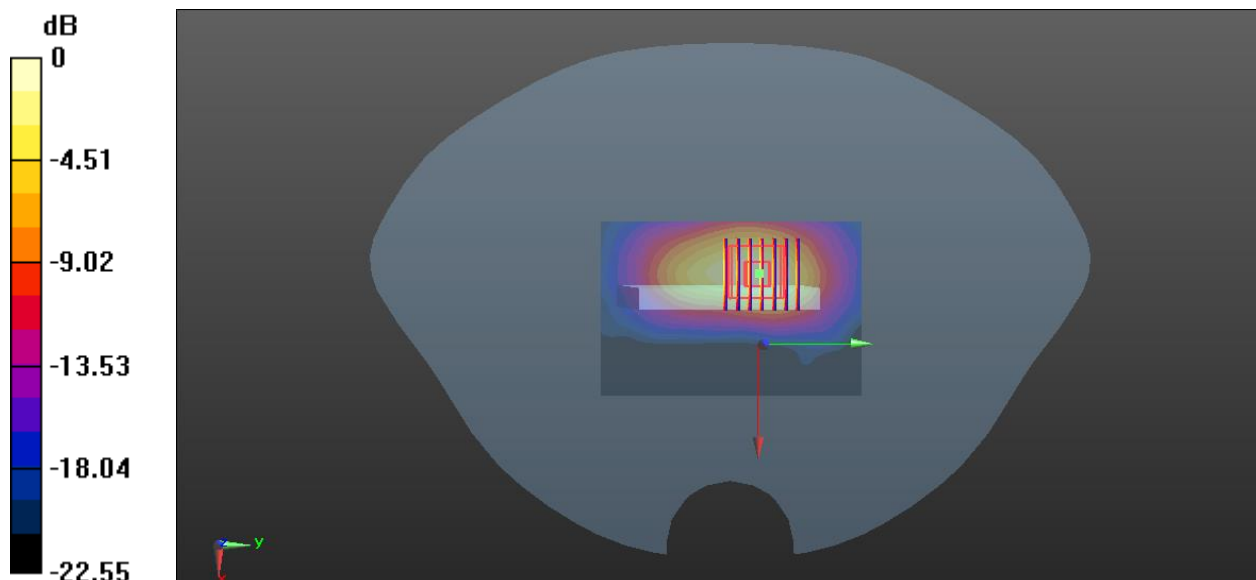
**Ch39750/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.552 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.845 W/kg

**SAR(1 g) = 0.533 W/kg; SAR(10 g) = 0.194 W/kg**

Maximum value of SAR (measured) = 0.585 W/kg



0 dB = 0.585 W/kg

**Meas.29 Body Plane with Bottom Edge 0mm on Low Channel in LTE Band41 mode with Antenna 1**

Date: 2022.06.23

Communication System Band: Band41; Frequency: 2506 MHz; Duty Cycle: 1:1 .58

Medium parameters used (interpolated):  $f = 2506$  MHz;  $\sigma = 1.861$  S/m;  $\epsilon_r = 39.325$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch39750/Area Scan (51x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 6.78 W/kg

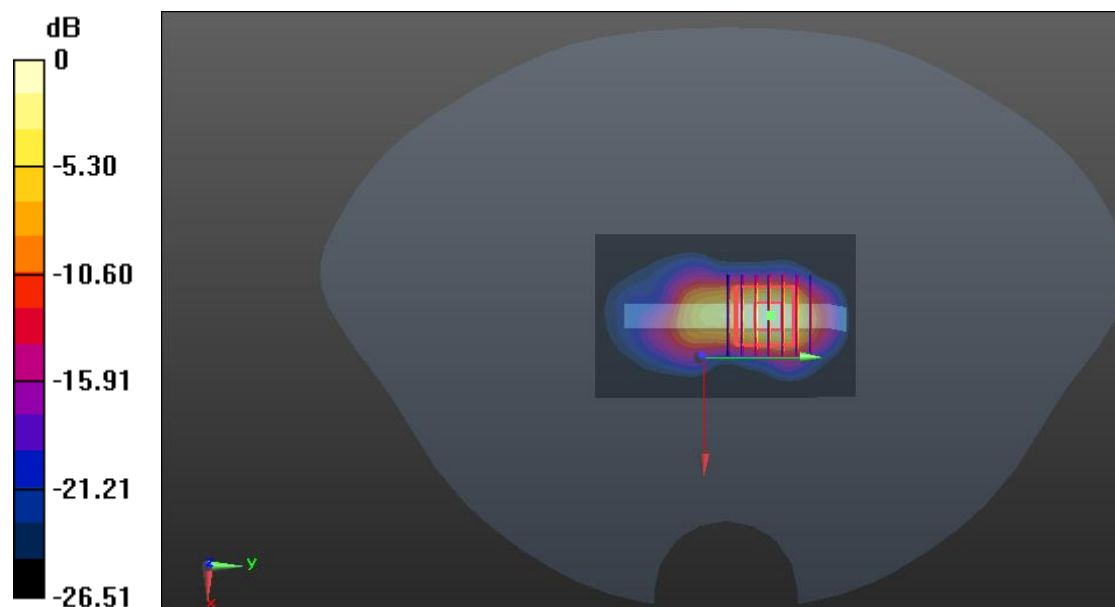
**Ch39750/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 38.69 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 10.2 W/kg

**SAR(1 g) = 3.91 W/kg; SAR(10 g) = 1.39 W/kg**

Maximum value of SAR (measured) = 4.80 W/kg



0 dB = 4.80 W/kg

**Meas.30 Left Head with Cheek on 6 Channel in IEEE802.11g mode with Antenna 7**

Date: 2022.06.20

Communication System Band: WLAN(g); Frequency: 2437 MHz; Duty Cycle: 1:1.01

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.781$  S/m;  $\epsilon_r = 39.81$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Ambient Temperature:22.3 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch6/Area Scan (81x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.653 W/kg

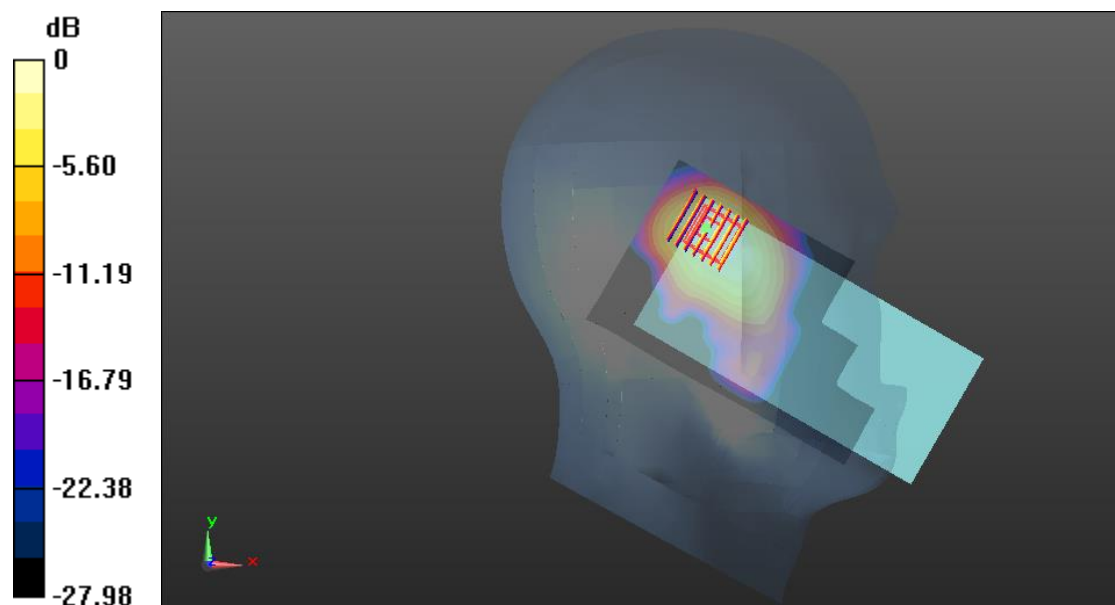
**Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.373 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.23 W/kg

**SAR(1 g) = 0.619 W/kg; SAR(10 g) = 0.307 W/kg**

Maximum value of SAR (measured) = 0.700 W/kg



0 dB = 0.700 W/kg

**Meas.31 Body Plane with Back Side 10mm on 6 Channel in IEEE802.11g mode with Antenna 7**

Date: 2022.06.20

Communication System Band: WLAN(g); Frequency: 2437 MHz; Duty Cycle: 1:1.01

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.781$  S/m;  $\epsilon_r = 39.81$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch6/Area Scan (81x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

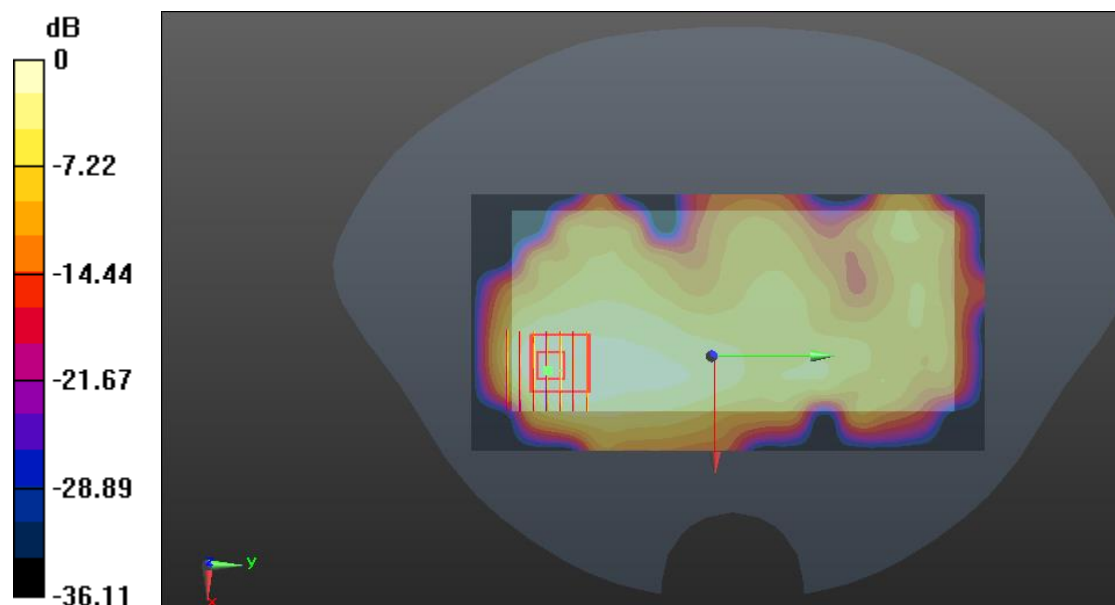
**Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.472 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.347 W/kg

**SAR(1 g) = 0.167 W/kg; SAR(10 g) = 0.086 W/kg**

Maximum value of SAR (measured) = 0.186 W/kg



0 dB = 0.186 W/kg

**Meas.32 Left Head with Tilt on 60 Channel in IEEE802.11a mode with Antenna 7**

Date: 2022.06.24

Communication System Band: WLAN(a); Frequency: 5300 MHz; Duty Cycle: 1:1.039

Medium parameters used (interpolated):  $f = 5300$  MHz;  $\sigma = 4.822$  S/m;  $\epsilon_r = 35.225$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Ambient Temperature:22.3 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.42, 5.42, 5.42); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch60/Area Scan (101x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.81 W/kg

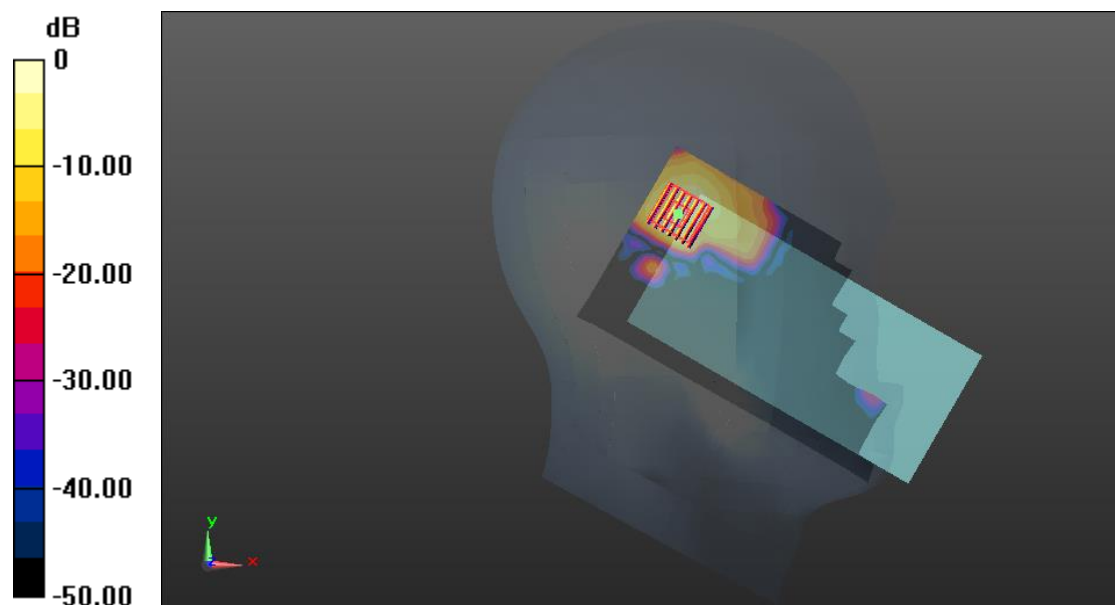
**C60/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.8030 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 3.59 W/kg

**SAR(1 g) = 0.804 W/kg; SAR(10 g) = 0.214 W/kg**

Maximum value of SAR (measured) = 1.79 W/kg



0 dB = 1.79 W/kg

**Meas.33 Left Head with Tilt on 116 Channel in IEEE802.11a mode with Antenna 7**

Date: 2022.06.24

Communication System Band: WLAN(a); Frequency: 5580 MHz; Duty Cycle: 1:1.039

Medium parameters used (interpolated):  $f = 5580$  MHz;  $\sigma = 5.026$  S/m;  $\epsilon_r = 35.417$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Ambient Temperature:22.3 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.81, 4.81, 4.81); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch116/Area Scan (101x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

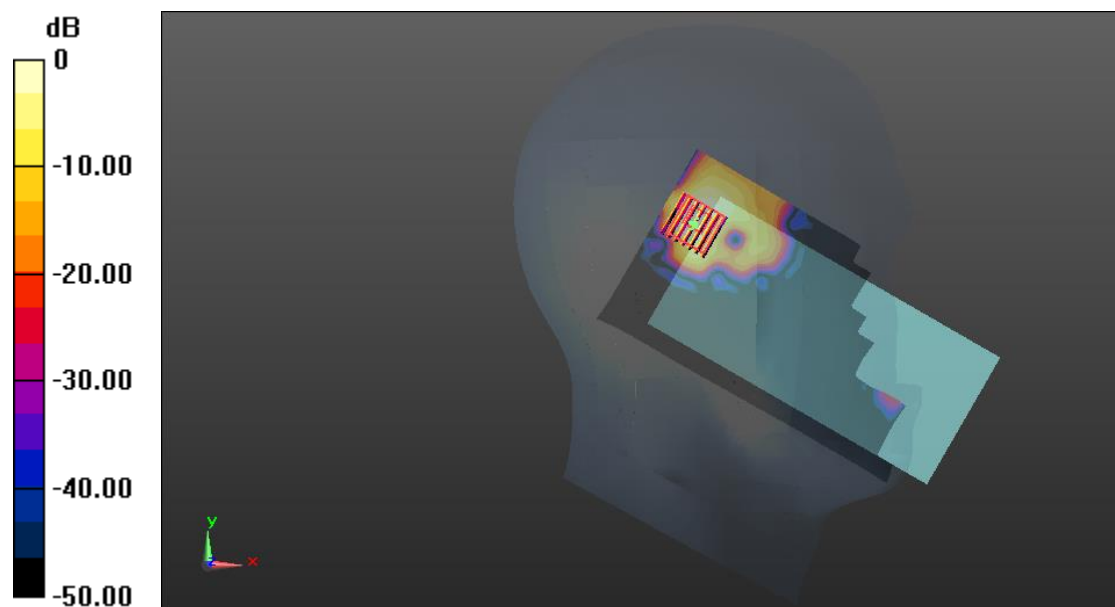
**Ch116/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.555 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.34 W/kg

**SAR(1 g) = 0.506 W/kg; SAR(10 g) = 0.136 W/kg**

Maximum value of SAR (measured) = 1.09 W/kg



0 dB = 1.09 W/kg

**Meas.34 Left Head with Tilt on 155 Channel in IEEE802.11ac80 mode with Antenna 7**

Date: 2022.06.24

Communication System Band: WLAN(ac80); Frequency: 5775 MHz; Duty Cycle: 1:1.136

Medium parameters used (interpolated):  $f = 5775$  MHz;  $\sigma = 5.226$  S/m;  $\epsilon_r = 35.268$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Ambient Temperature:22.3 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.9, 4.9, 4.9); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch155/Area Scan (101x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.561 W/kg

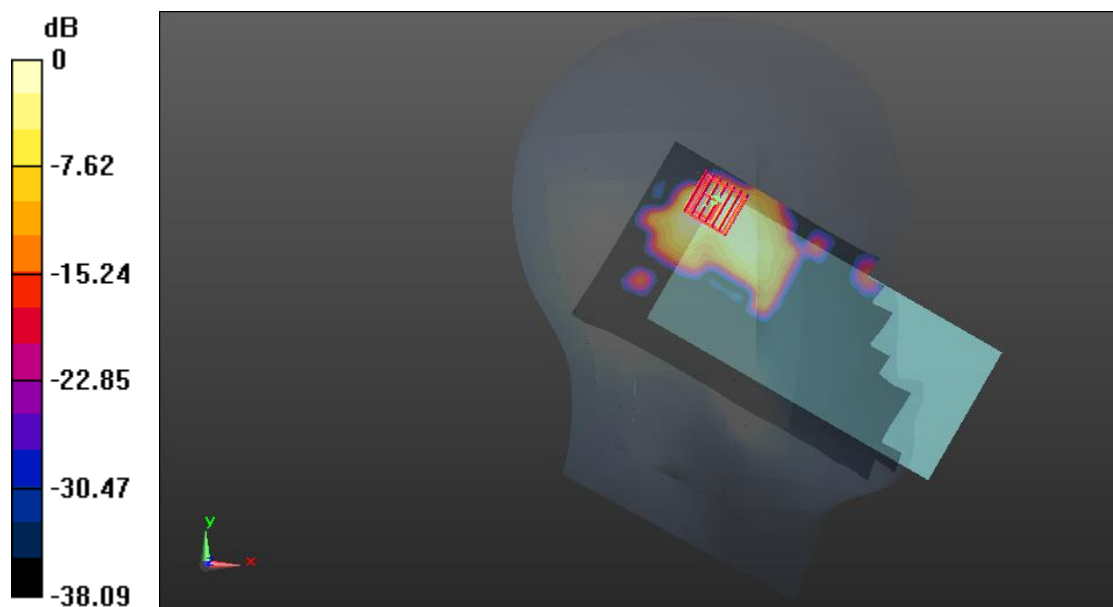
**Ch155/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.241 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.876 W/kg

**SAR(1 g) = 0.192 W/kg; SAR(10 g) = 0.060 W/kg**

Maximum value of SAR (measured) = 0.453 W/kg



0 dB = 0.453 W/kg

**Meas.35 Body Plane with Top Side 10mm on 44 Channel in IEEE802.11a mode with Antenna 7**

Date: 2022.06.24

Communication System Band: WLAN(a); Frequency: 5220 MHz; Duty Cycle: 1:1.039

Medium parameters used (interpolated):  $f = 5220$  MHz;  $\sigma = 4.645$  S/m;  $\epsilon_r = 36.213$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.42, 5.42, 5.42); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch44/Area Scan (61x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.20 W/kg

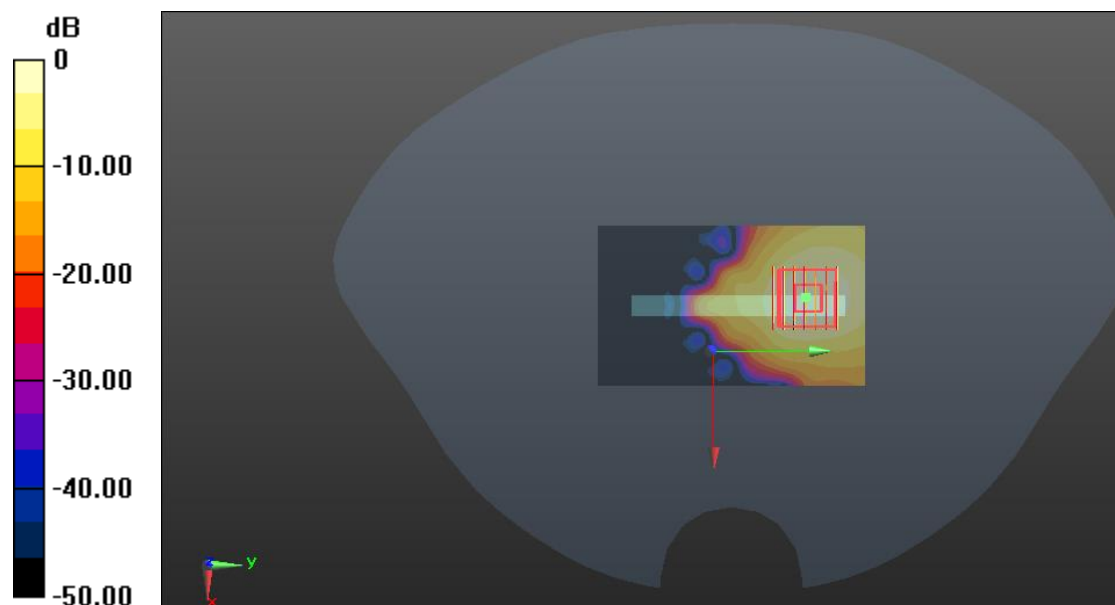
**Ch44/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.996 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 2.15 W/kg

**SAR(1 g) = 0.609 W/kg; SAR(10 g) = 0.214 W/kg**

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



0 dB = 1.15 W/kg



**Meas.36 Body Plane with Back Side 10mm on 155 Channel in IEEE802.11ac80 mode with Antenna 7**

Date: 2022.06.24

Communication System Band: WLAN(ac80); Frequency: 5775 MHz; Duty Cycle: 1:1.136

Medium parameters used (interpolated):  $f = 5775$  MHz;  $\sigma = 5.226$  S/m;  $\epsilon_r = 35.268$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.9, 4.9, 4.9); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch155/Area Scan (101x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.466 W/kg

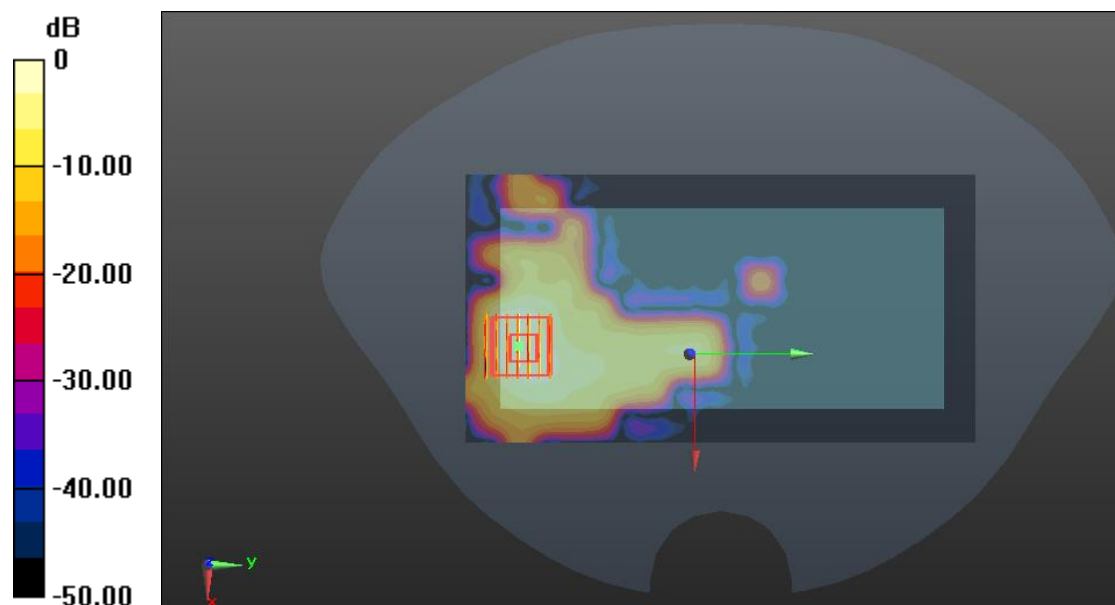
**Ch155/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.289 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.811 W/kg

**SAR(1 g) = 0.201 W/kg; SAR(10 g) = 0.070 W/kg**

Maximum value of SAR (measured) = 0.427 W/kg



0 dB = 0.427 W/kg

**Meas.37 Body Plane with Top Side 0mm on 60 Channel in IEEE802.11a mode with Antenna 7**

Date: 2022.06.24

Communication System Band: WLAN(a); Frequency: 5300 MHz; Duty Cycle: 1:1.039

Medium parameters used (interpolated):  $f = 5300$  MHz;  $\sigma = 4.822$  S/m;  $\epsilon_r = 35.225$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.42, 5.42, 5.42); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch60/Area Scan (61x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 13.5 W/kg

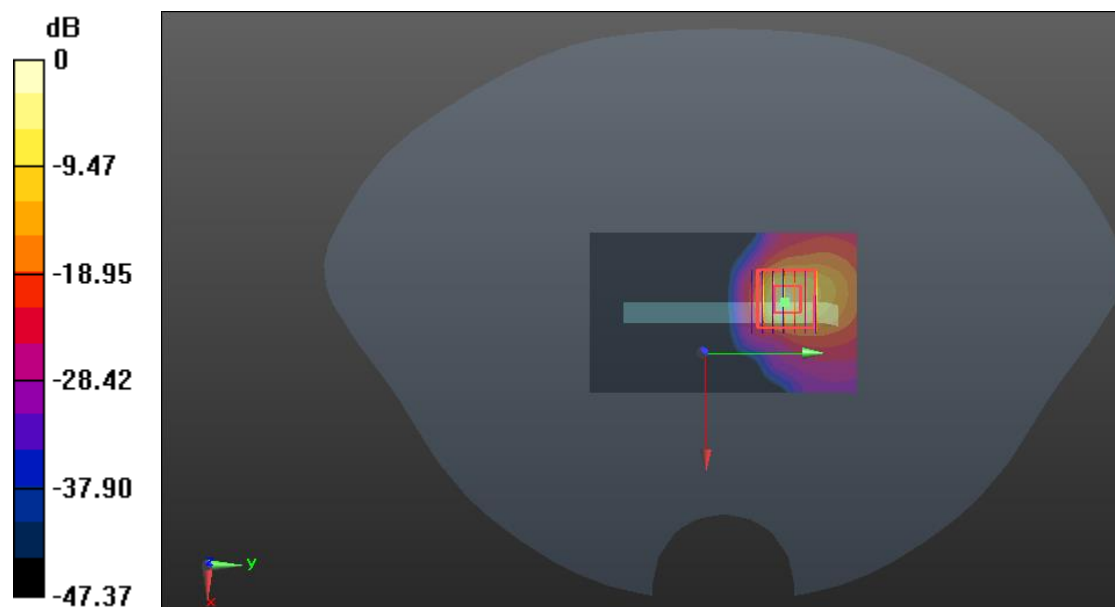
**Ch60/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 53.6 W/kg

**SAR(1 g) = 7.22 W/kg; SAR(10 g) = 1.37 W/kg**

Maximum value of SAR (measured) = 21.6 W/kg



0 dB = 21.6 W/kg

**Meas.38 Body Plane with Top Side 0mm on 116 Channel in IEEE802.11a mode with Antenna 7**

Date: 2022.06.24

Communication System Band: WLAN(a); Frequency: 5580 MHz; Duty Cycle: 1:1.039

Medium parameters used (interpolated):  $f = 5580$  MHz;  $\sigma = 5.026$  S/m;  $\epsilon_r = 35.417$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.81, 4.81, 4.81); Calibrated: 2021.12.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch116/Area Scan (61x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 7.26 W/kg

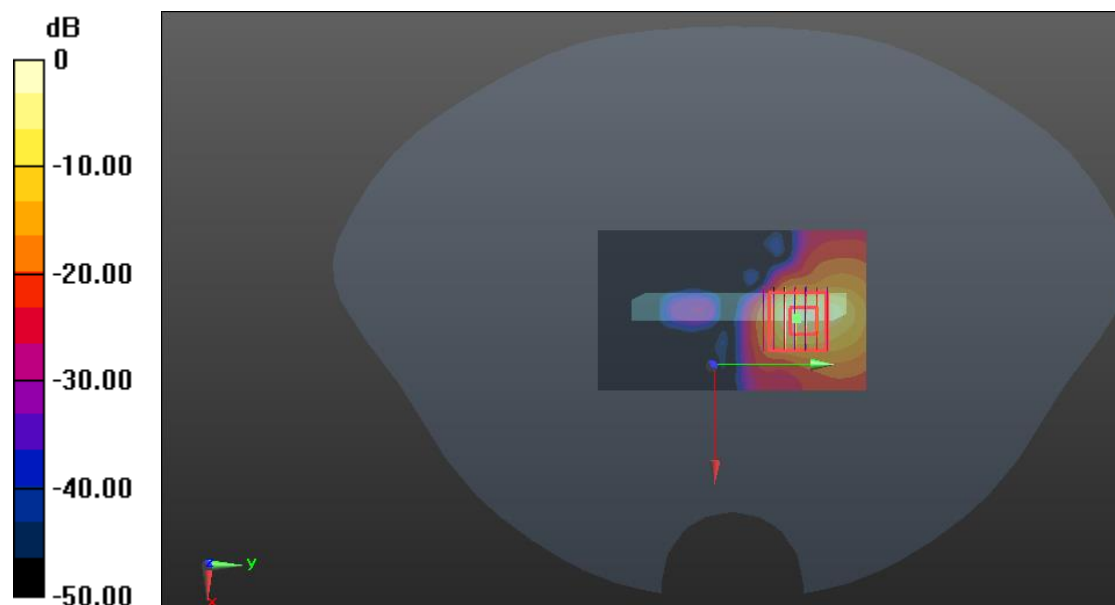
**Ch116/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 33.2 W/kg

**SAR(1 g) = 4.19 W/kg; SAR(10 g) = 0.856 W/kg**

Maximum value of SAR (measured) = 10.7 W/kg



0 dB = 10.7 W/kg

**Meas.39 Left Head with Cheek on 39 Channel in BT mode with Antenna 7**

Date: 2022.06.20

Communication System Band: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1.301

Medium parameters used (interpolated):  $f = 2441$  MHz;  $\sigma = 1.789$  S/m;  $\epsilon_r = 39.754$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Ambient Temperature:22.3 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch0/Area Scan (81x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0941 W/kg

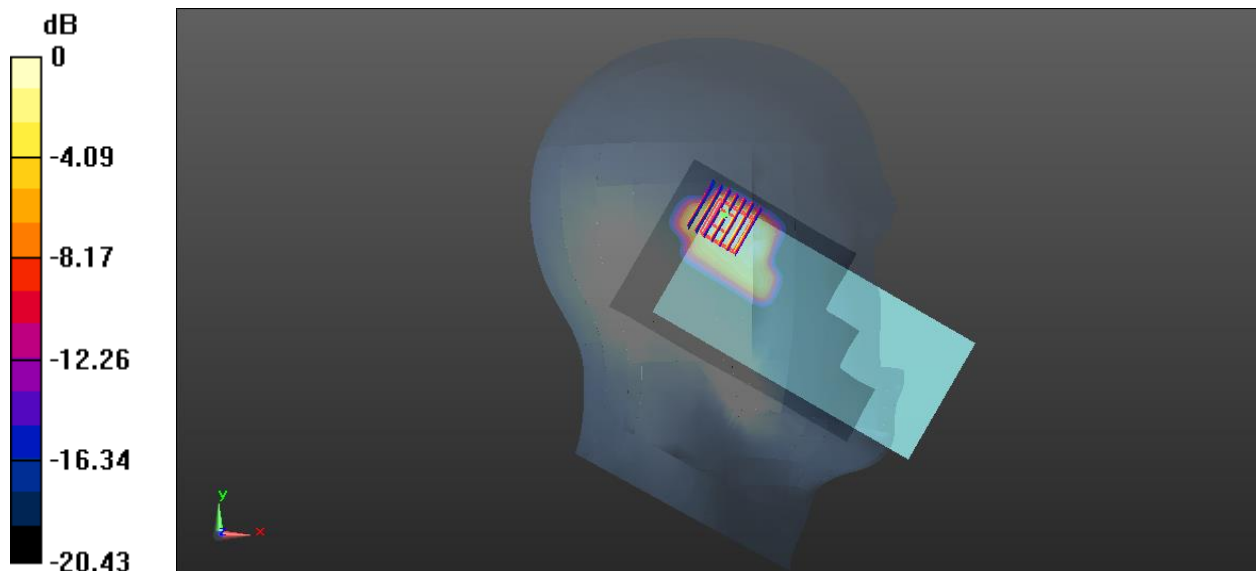
**Ch0/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.654 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.115 W/kg

**SAR(1 g) = 0.091 W/kg; SAR(10 g) = 0.047 W/kg**

Maximum value of SAR (measured) = 0.0647 W/kg



0 dB = 0.0647 W/kg

### Meas.40 Body Plane with Back Side 10mm on 39 Channel in BT mode with Antenna 7

Date: 2022.06.20

Communication System Band: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1.301

Medium parameters used (interpolated):  $f = 2441$  MHz;  $\sigma = 1.789$  S/m;  $\epsilon_r = 39.754$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch0/Area Scan (81x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0511 W/kg

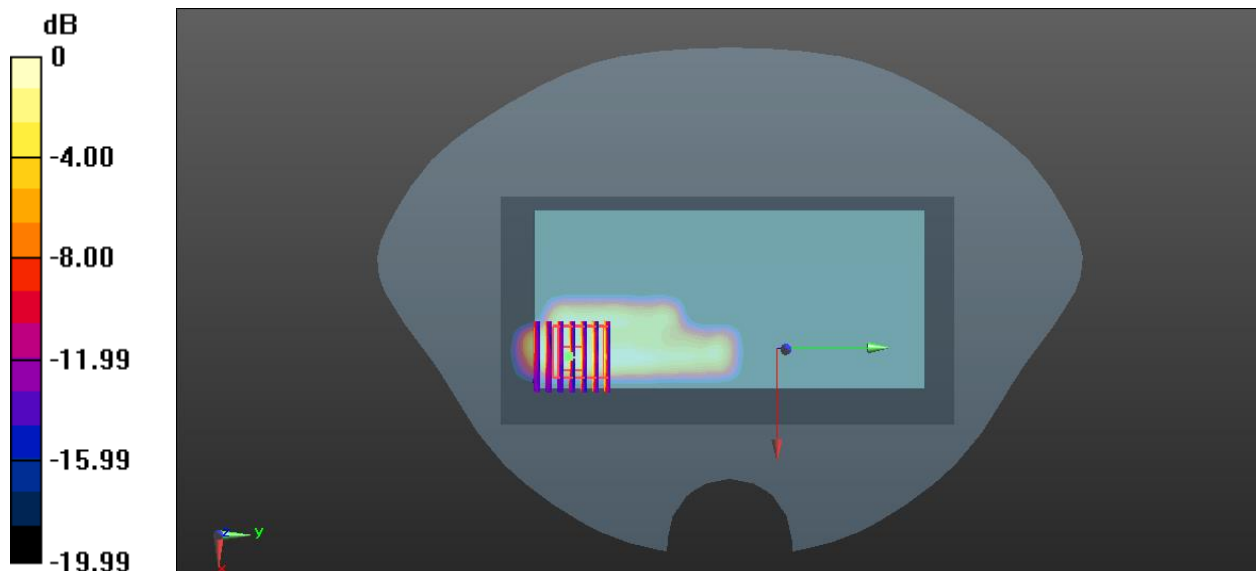
**Ch0/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.288 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.0610 W/kg

**SAR(1 g) = 0.025 W/kg; SAR(10 g) = 0.010 W/kg**

Maximum value of SAR (measured) = 0.0313 W/kg



0 dB = 0.0313 W/kg

**Meas.41 Right Head with Tilt on PCC21100+SCC21298 Channel in LTE Band7 mode with Antenna 4**

Date: 2022.06.21

Communication System Band: Band 7; Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2535$  MHz;  $\sigma = 1.898$  S/m;  $\epsilon_r = 38.985$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature:22.5 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch21100/Area Scan (81x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.445 W/kg

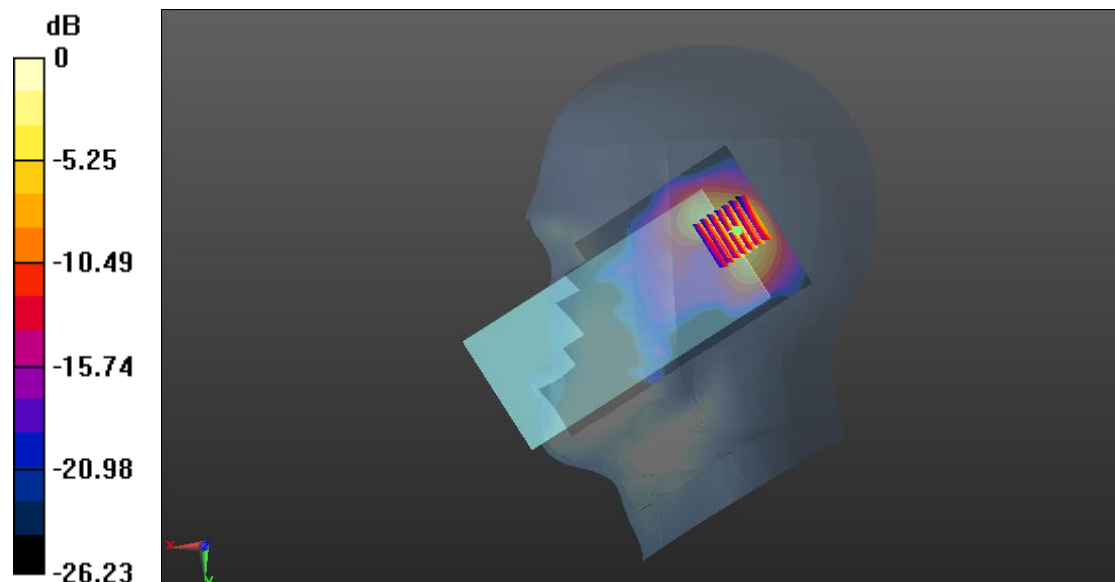
**Ch21100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.708 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.894W/kg

**SAR(1 g) = 0.383 W/kg; SAR(10 g) = 0.160 W/kg**

Maximum value of SAR (measured) = 0.451 W/kg



0 dB = 0.451 W/kg

## Meas.42 Body Plane with Bottom Edge 10mm on PCC21100+SCC21298 Channel in LTE Band7 mode with Antenna 1

Date: 2022.06.21

Communication System Band: Band 7; Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2535$  MHz;  $\sigma = 1.898$  S/m;  $\epsilon_r = 38.985$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch21100/Area Scan (51x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.534 W/kg

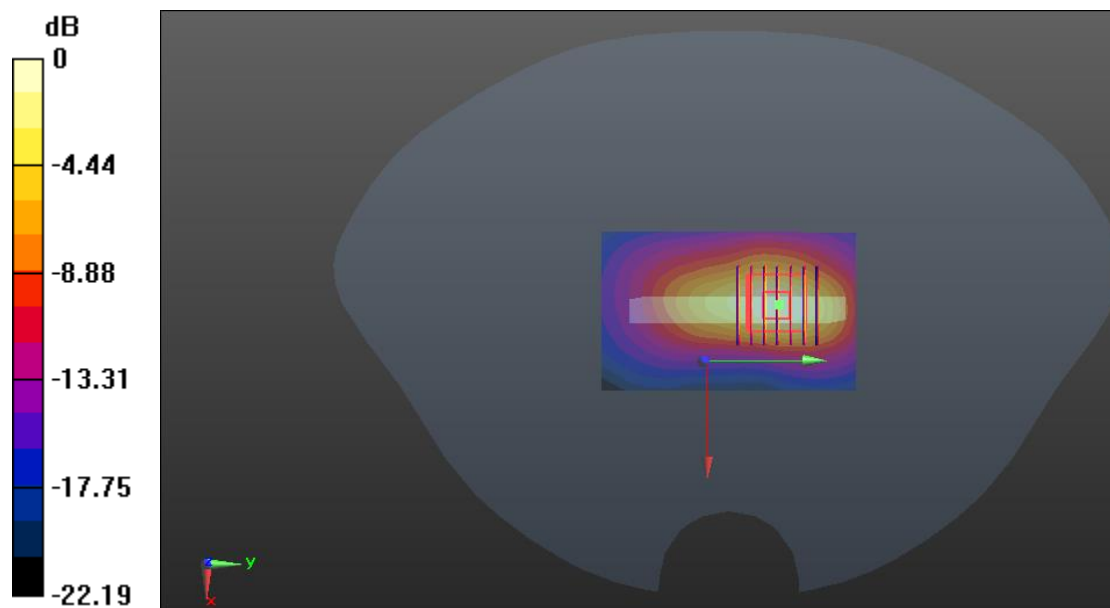
**Ch21100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.37 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.853 W/kg

**SAR(1 g) = 0.420 W/kg; SAR(10 g) = 0.191 W/kg**

Maximum value of SAR (measured) = 0.488 W/kg



0 dB = 0.488 W/kg

**Meas.43 Body Plane with Bottom Edge 0mm on PCC21100+SCC21298 Channel in LTE Band7 mode with Antenna 1**

Date: 2022.06.21

Communication System Band: Band 7; Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2535$  MHz;  $\sigma = 1.898$  S/m;  $\epsilon_r = 38.985$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch21100/Area Scan (81x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 4.29 W/kg

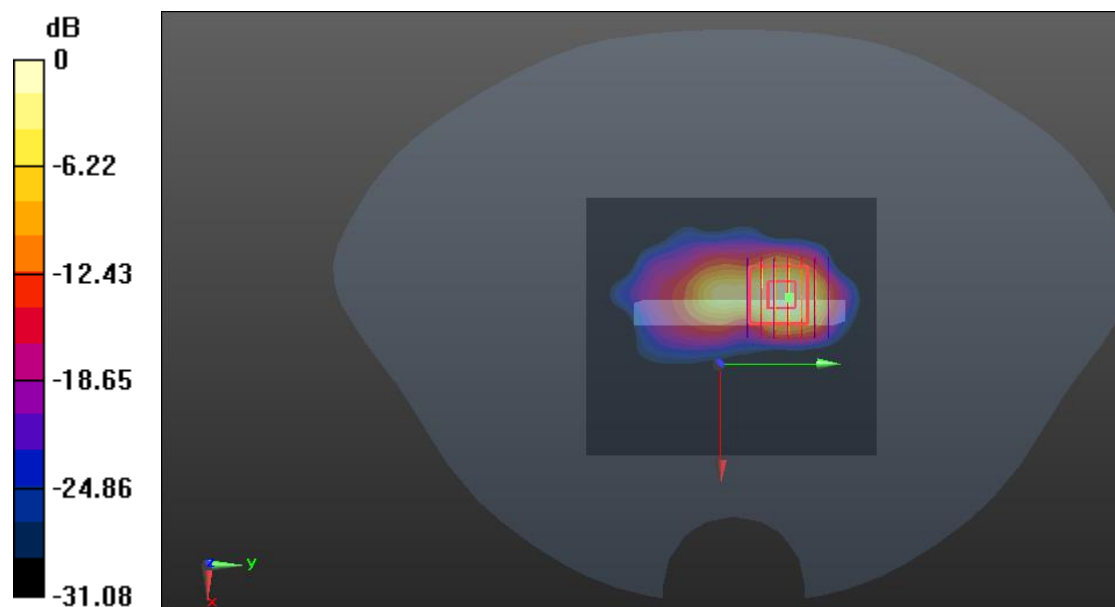
**Ch21100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.22 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 9.38 W/kg

**SAR(1 g) = 3.45 W/kg; SAR(10 g) = 1.19 W/kg**

Maximum value of SAR (measured) = 4.14 W/kg



0 dB = 4.14 W/kg



**Meas.44 Right Head with Tilt on PCC38099+SCC37901 Channel in LTE Band38 mode with Antenna 4**

Date: 2022.06.22

Communication System Band: Band 38; Frequency: 2595 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated):  $f = 2595$  MHz;  $\sigma = 1.965$  S/m;  $\epsilon_r = 38.679$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature:22.8 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.4, 7.4, 7.4); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch38099/Area Scan (81x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

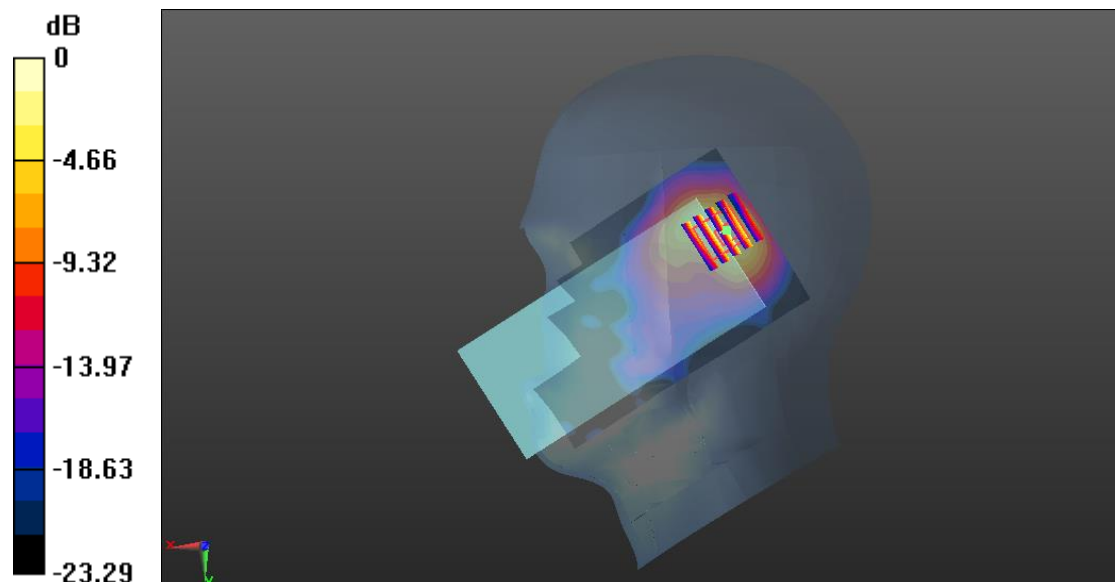
**Ch38099/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.600 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.472 W/kg

**SAR(1 g) = 0.200 W/kg; SAR(10 g) = 0.088 W/kg**

Maximum value of SAR (measured) = 0.0729 W/kg



0 dB = 0.0729 W/kg

### Meas.45 Body Plane with Bottom Edge 10mm on PCC37850+SCC38048 Channel in LTE Band38 mode with Antenna 1

Date: 2022.06.22

Communication System Band: Band 38; Frequency: 2580 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated):  $f = 2580$  MHz;  $\sigma = 1.945$  S/m;  $\epsilon_r = 38.801$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.8 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.4, 7.4, 7.4); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch37850/Area Scan (51x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.580 W/kg

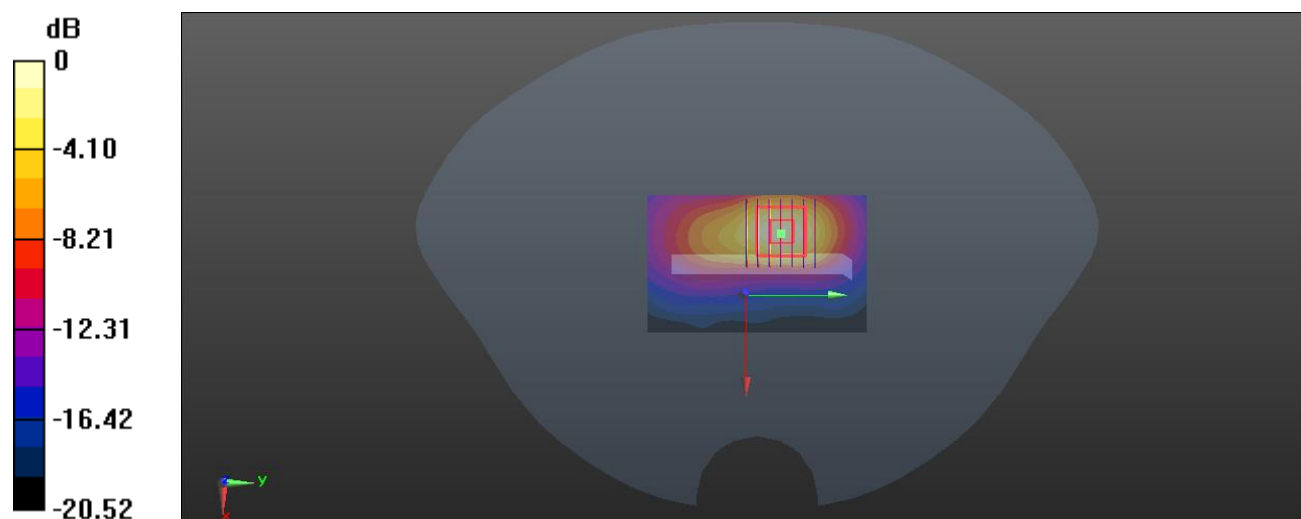
**Ch37850/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.821 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.963 W/kg

**SAR(1 g) = 0.481 W/kg; SAR(10 g) = 0.216 W/kg**

Maximum value of SAR (measured) = 0.560 W/kg



0 dB = 0.560 W/kg

### Meas.46 Body Plane with Bottom Edge 0mm on PCC37850+SCC38048 Channel in LTE Band38 mode with Antenna 1

Date: 2022.06.22

Communication System Band: Band 38; Frequency: 2580 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated):  $f = 2580$  MHz;  $\sigma = 1.945$  S/m;  $\epsilon_r = 38.801$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.8 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.4, 7.4, 7.4); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch37850/Area Scan (51x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 6.70 W/kg

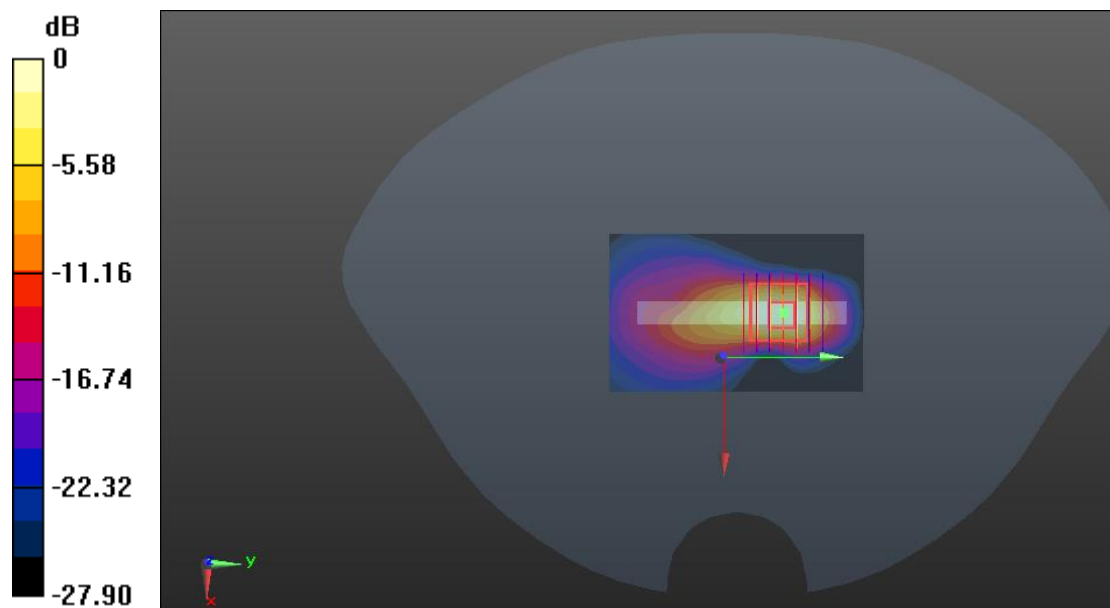
**Ch37850/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 33.04 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 8.55 W/kg

**SAR(1 g) = 3.24 W/kg; SAR(10 g) = 1.12 W/kg**

Maximum value of SAR (measured) = 4.02 W/kg



0 dB = 4.02 W/kg

**Meas.47 Right Head with Tilt on PCC39750+SCC39948 Channel in LTE Band41 mode with Antenna 4**

Date: 2022.06.23

Communication System Band: Band41; Frequency: 2506 MHz; Duty Cycle: 1:1 .58

Medium parameters used (interpolated):  $f = 2506$  MHz;  $\sigma = 1.861$  S/m;  $\epsilon_r = 39.325$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature:22.6 Liquid Temperature:21.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch39750/Area Scan (81x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.521 W/kg

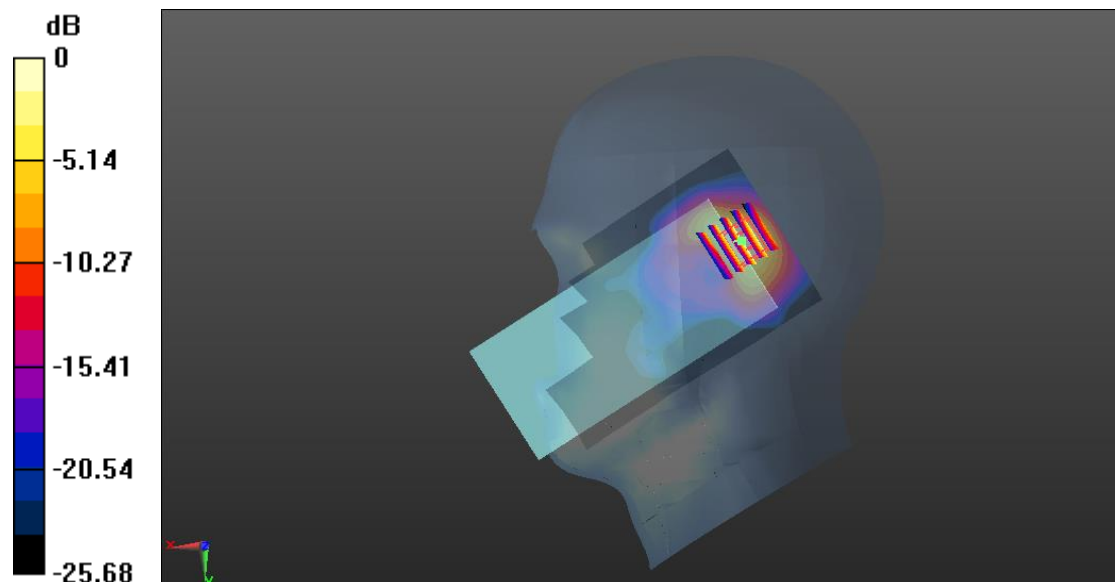
**Ch39750/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.62 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.02 W/kg

**SAR(1 g) = 0.451 W/kg; SAR(10 g) = 0.188 W/kg**

Maximum value of SAR (measured) = 0.535 W/kg



0 dB = 0.535 W/kg

### Meas.48 Body Plane with Bottom Edge 10mm on PCC39750+SCC39948 Channel in LTE Band41 mode with Antenna 1

Date: 2022.06.23

Communication System Band: Band41; Frequency: 2506 MHz; Duty Cycle: 1:1 .58

Medium parameters used (interpolated):  $f = 2506$  MHz;  $\sigma = 1.861$  S/m;  $\epsilon_r = 39.325$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch39750/Area Scan (51x81x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm

Maximum value of SAR (interpolated) = 0.619 W/kg

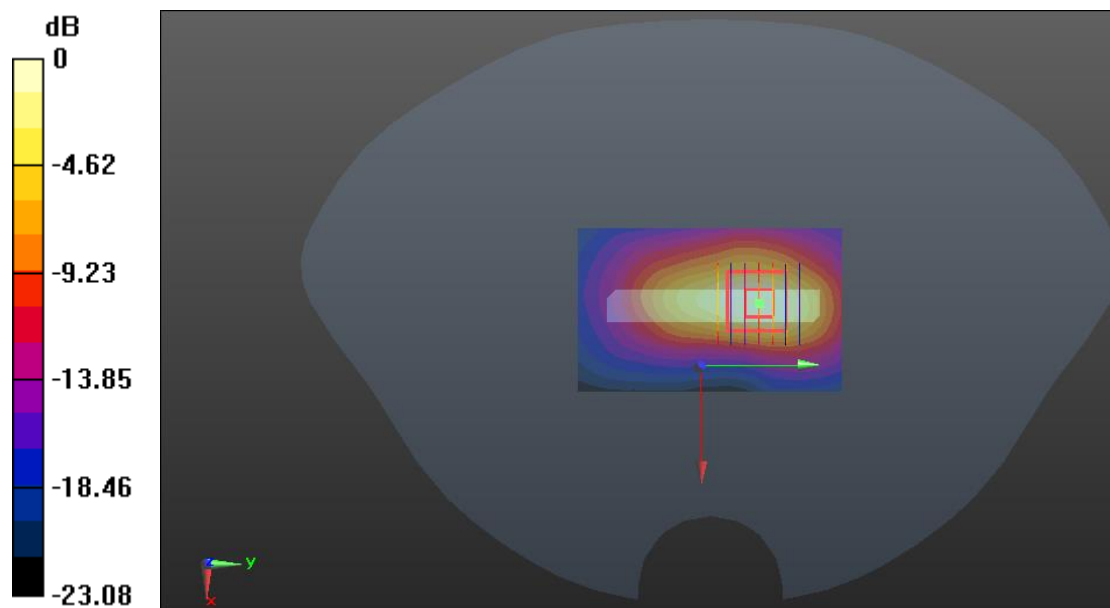
**Ch39750/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 12.66 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.952 W/kg

**SAR(1 g) = 0.473 W/kg; SAR(10 g) = 0.216 W/kg**

Maximum value of SAR (measured) = 0.546 W/kg



0 dB = 0.546 W/kg

**Meas.49 Body Plane with Bottom Edge 0mm on PCC39750+SCC39948 Channel in LTE Band41 mode with Antenna 1**

Date: 2022.06.23

Communication System Band: Band41; Frequency: 2506 MHz; Duty Cycle: 1:1 .58

Medium parameters used (interpolated):  $f = 2506$  MHz;  $\sigma = 1.861$  S/m;  $\epsilon_r = 39.325$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.63, 7.63, 7.63); Calibrated: 2021.12.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP:1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch39750/Area Scan (81x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 4.46 W/kg

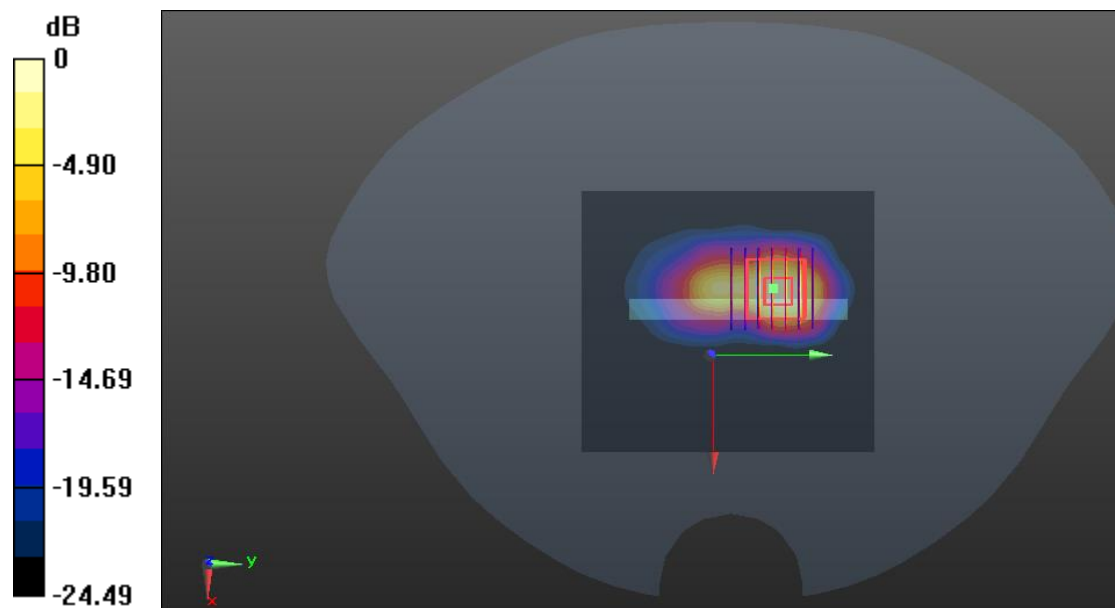
**Ch39750/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.65 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 9.56 W/kg

**SAR(1 g) = 3.65 W/kg; SAR(10 g) = 1.29 W/kg**

Maximum value of SAR (measured) = 4.40 W/kg



0 dB = 4.40 W/kg

## **ANNEX D EUT EXTERNAL PHOTOS**

Please refer the document “BL-SZ2260422-AW.pdf”.

## **ANNEX E SAR TEST SETUP PHOTOS**

Please refer the document “BL-SZ2260422-AS.pdf”.

## **ANNEX F CALIBRATION REPORT**

Please refer the document “CALIBRATION REPORT.pdf”.

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