

# TEST REPORT

**Applicant:** Realme Chongqing Mobile Telecommunications Corp., Ltd.  
**Address:** No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China  
**Equipment Type:** Mobile Phone  
**Model Name:** RMX3910  
**Brand Name:** realme  
**FCC ID:** 2AUYFRMX3910  
**Test Standard:** FCC 47 CFR Part 2.1093 (refer to section 3.1)  
**Maximum SAR:** Head (1 g@0mm): 1.19 W/kg  
Body-worn (1 g@15mm): 0.85 W/kg  
Hotspot (1 g@10mm): 0.84 W/kg  
Specific (10 g@10mm): 2.75 W/kg  
**Sample Arrival Date:** Jan. 19, 2024  
**Test Date:** Jan. 25, 2024 - Feb. 10, 2024  
**Date of Issue:** Mar. 07, 2024

**ISSUED BY:**

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Xu Rui

**Checked by:** Zong Liyao

**Approved by:** Tolan Tu  
(Testing Director)

Xu Rui

Liyao Zong

Tolan Tu

<b>Revision History</b>		
Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Mar. 07, 2024</u>	<u>Initial Issue</u>

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# 1 GENERAL INFORMATION

## 1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

## 1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	<input checked="" type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	<input type="checkbox"/> 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

## 1.3 Test Environment Condition

Ambient Temperature	18°C to 25°C
Ambient Relative Humidity	30% to 70%

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

Applicant	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

### 2.2 Manufacturer Information

Manufacturer	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

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

EUT Name	Mobile Phone
Model Name Under Test	RMX3910
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	11
Software Version	realme UI 5.0
Dimensions (Approx.)	about 165.66mm*76.1mm*7.64mm
Weight (Approx.)	185g (with battery)
EUT ID	S09, S08, S07
IMEI Number	S09: IMEI: 868562070019690/03
	S08: IMEI: 868562070019716/03
	S07: IMEI:868562070019914/03

### 2.4 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	SUPERVOOC
	Model No.	BLPA17
	Serial No.	Rated: 4880mAh /18.98 Wh Typical: 5000 mAh /19.45 Wh
	Capacity	3.89V
	Rated Voltage	4.48V
	Limit Charge Voltage	SUNWODA Electronic Co., Ltd.

## 2.5 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/1900 MHz 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network LTE FDD Band 2/4/5/7/13/66 LTE TDD Band 38/41 Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40), VHT20/40 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80) U-NII-1/2A/2C/3, Beidou, Galileo, GLONASS, GPS, NFC, FM receiver
<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 13	TX: 777 ~ 787 MHz	RX: 746 ~ 756 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2180 MHz
	LTE Band 38	TX: 2570 ~ 2620 MHz	RX: 2570 ~ 2620 MHz
	LTE Band 41	TX: 2535 ~ 2655 MHz	RX: 2535 ~ 2655 MHz
	802.11b/g /n(HT20/HT40)/ VHT20/40	2412 ~ 2462 MHz	
	802.11a/ /n(HT20/HT40) /ac(VHT20/VHT40 /VHT80)	5150 ~ 5250 MHz	5250 ~ 5350 MHz
	5470 ~ 5725 MHz	5725 ~ 5850 MHz	
Bluetooth	2402 ~ 2480 MHz		
NFC	13.56 MHz		
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna NFC: Coli Antenna		

DTM	N/A	
Hotspot Function	Support	
Power Reduction	Support	
Exposure Category	General Population/Uncontrolled exposure	
Product Type	Portable Device	
EUT 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 2/3/4/5G transmitter for held-to-ear exposure conditions.</li> <li>2. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4 transmitter for near to body exposure conditions.</li> <li>3. The reduction power details please refer section 8.6.</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	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate(SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01
5	KDB 941225 D01 v03r01	3G SAR MEAUREMENT PROCEDURES
6	KDB 941225 D05 v02r05	SAR Evaluation Considerations for LTE Devices
7	KDB 941225 D06 v02r01	SAR EVALUATION PROCEDURES FOR PORTABLE DEVICES WITH WIRELESS ROUTER CAPABILITIES
8	KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
9	KDB 865664 D02 v01r02	RF Exposure Reporting
10	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 Values

Equipment Class	Band	Maximum Scaled SAR (W/kg)				Maximum Report SAR (W/kg)			
		Head (0mm)	Body-worn (15mm)	Hotspot (10mm)	Specific (0mm)	Head (0mm)	Body-worn (15mm)	Hotspot (10mm)	Specific (0mm)
		1g SAR			10g SAR	1g SAR			10g SAR
PCE	GSM 850	1.05	0.16	0.35	/	1.19	0.85	0.84	2.75
	GSM 1900	1.09	0.49	0.74	/				
	WCDMA Band 2	1.16	0.52	0.73	1.71				
	WCDMA Band 4	0.99	0.35	0.61	/				
	WCDMA Band 5	0.78	0.25	0.30	/				
	LTE Band 2	0.86	0.47	0.70	1.98				
	LTE Band 4	1.02	0.27	0.71	/				
	LTE Band 5	0.85	0.26	0.33	/				
	LTE Band 7	0.53	0.22	0.47	/				
	LTE Band 13	0.68	0.23	0.27	/				
	LTE Band 66	1.00	0.40	0.84	/				
	LTE Band 38	0.39	0.16	0.33	/				
	LTE Band 41	0.41	0.15	0.30	/				
DTS	2.4G WLAN	1.17	0.21	0.44	/				
NII	5.2G WLAN	/	/	0.66	/				
	5.3G WLAN	1.19	0.53	/	2.34				
	5.6G WLAN	1.12	0.85	/	2.75				
	5.8G WLAN	1.03	0.83	0.61	/				
DSS	Bluetooth	0.14	0.02	0.05	/				
Limit (W/kg)		1.6			4.0	1.6			4.0
Verdict		PASS							

## 3.3.2 Highest Simultaneous Transmission SAR Values

Equipment Class	Maximum Scaled SAR (W/kg)			
	Head 1g (0mm)	Body-worn 1g (15mm)	Hotspot 1g (10mm)	Specific 10g (0mm)
PCE	1.46	1.41	1.13	2.03
DTS	1.46	0.75	1.08	/
NII	1.39	1.41	1.13	2.03
DSS	1.46	1.41	1.13	/
Limit (W/Kg)	1.60	1.60	1.60	4.00
Verdict	Pass			
Note: The highest simultaneous SAR please refer section 12.2				

### 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 1.19 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 2.75 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

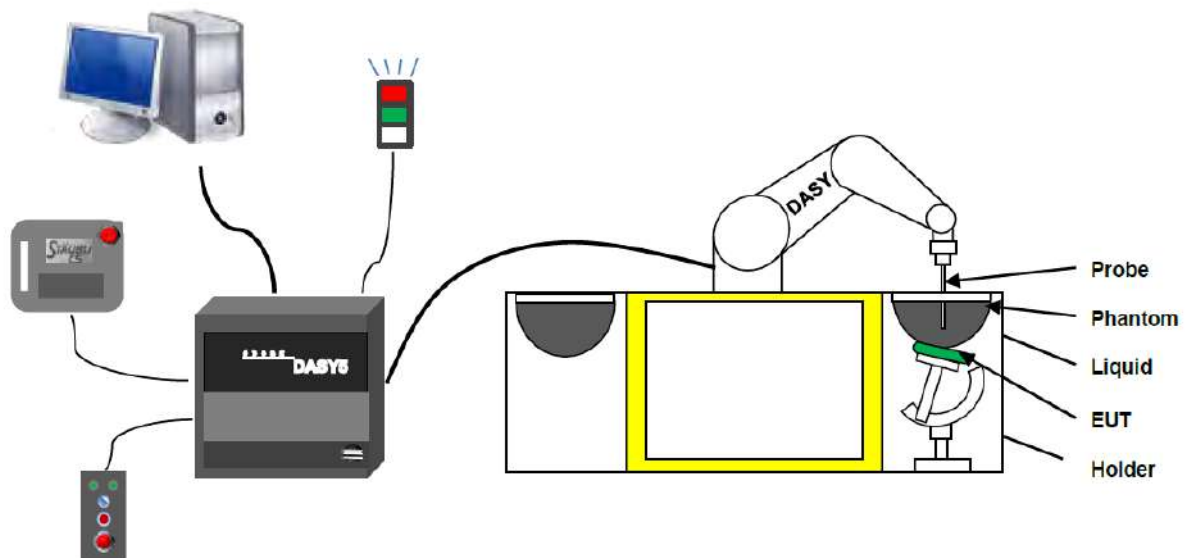
$$\mathbf{SAR} = \frac{\sigma E^2}{\rho}$$

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 DASY5 measurement server.
6. The DASY5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
7. DASY5 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:7506 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

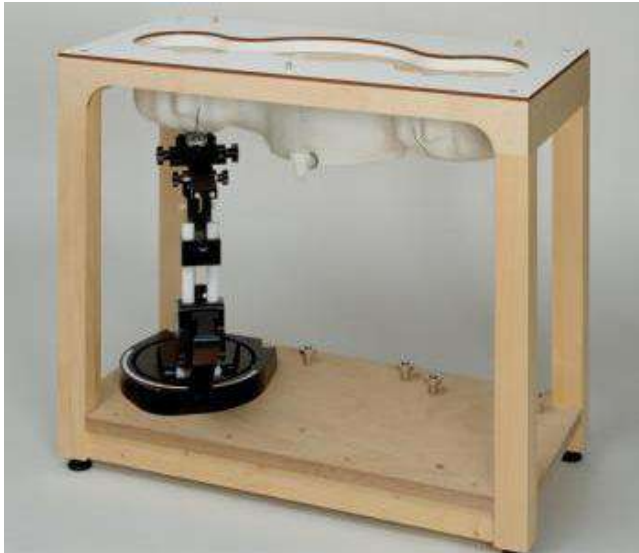
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through 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 head
- Right head
- Flat phantom

**Photo of Phantom SN1576**



Serial Number	Material	Length	Height
SN 1576 SAM1	Vinylester, glass fiber reinforced	1000	500

#### 4.2.6 Device Holder

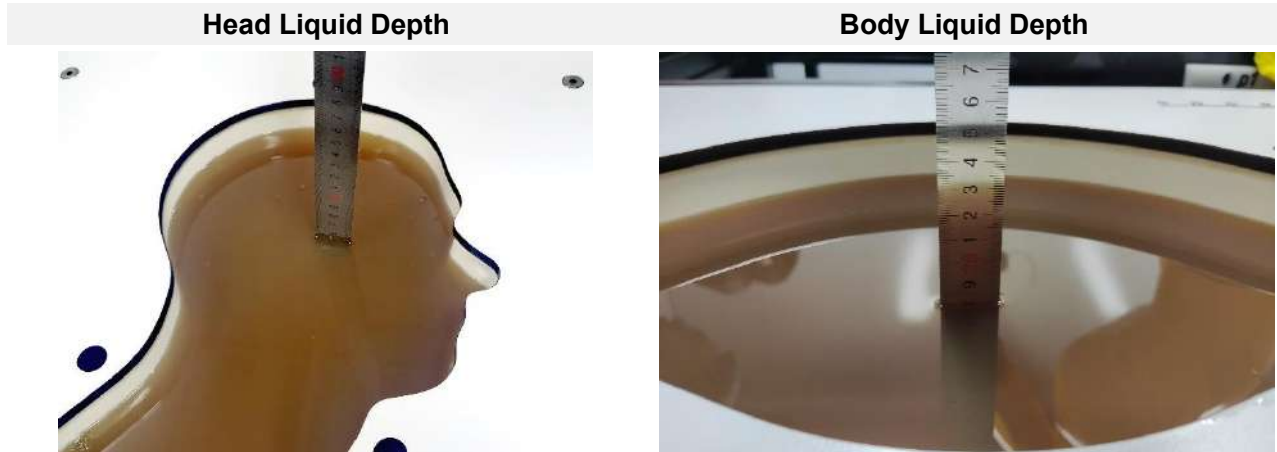
The DASY5 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of  $65^\circ$ . The bottom plate contains three pair of 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.

TSL	Manufacturer / Model	Freq Range (MHz)	Main Ingredients
Head WideBand	SPEAG HBBL600-10000V6	600-10000	Ethenediol, Sodium petroleum sulfonate, Hexylene Glycol / 2-Methyl-pentane-2.4-diol, Alkoxylated alcohol

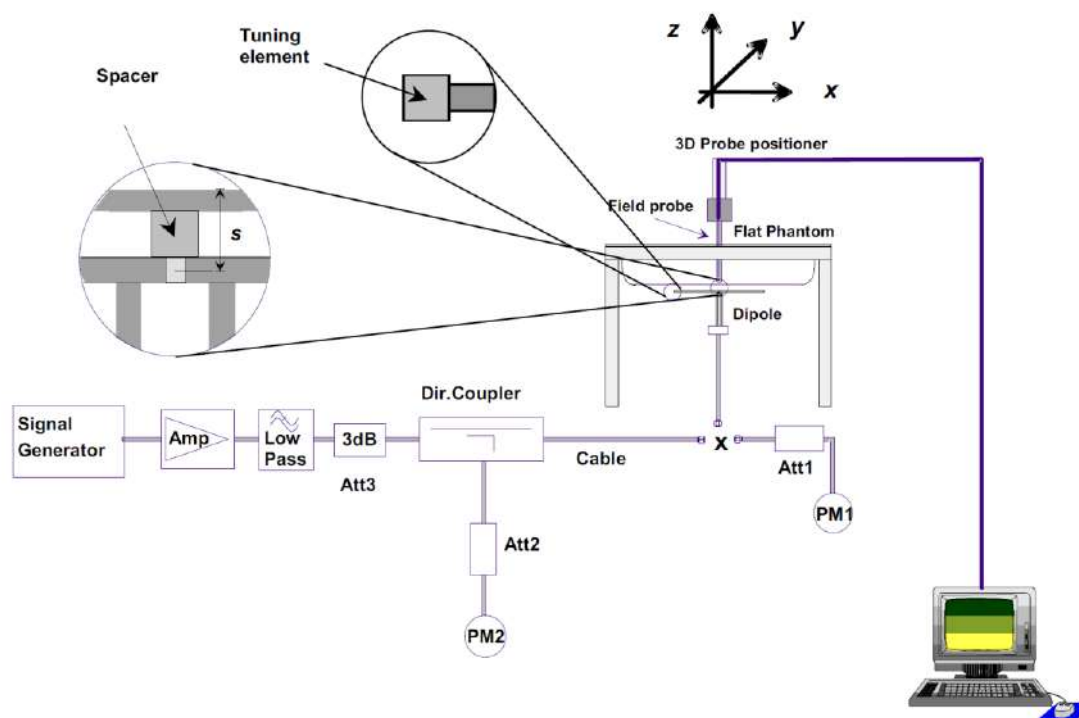
## 5 SYSTEM VERIFICATION

### 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

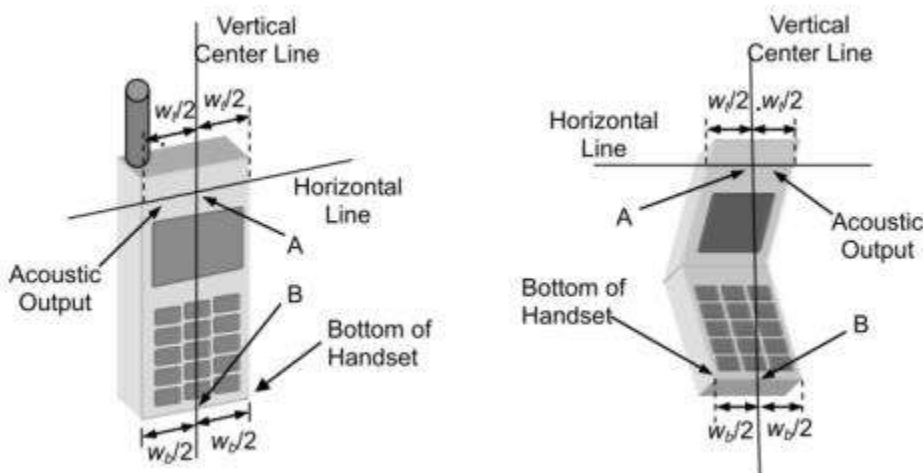
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

### 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.

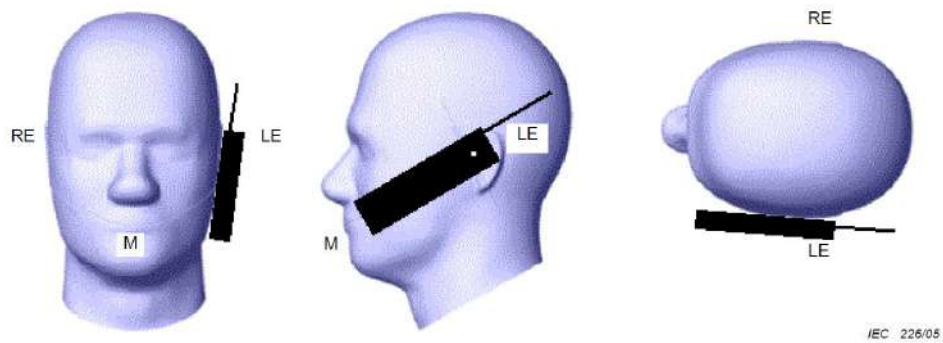
#### 6.1.1 Two Imaginary Lines on the Handset

- 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.



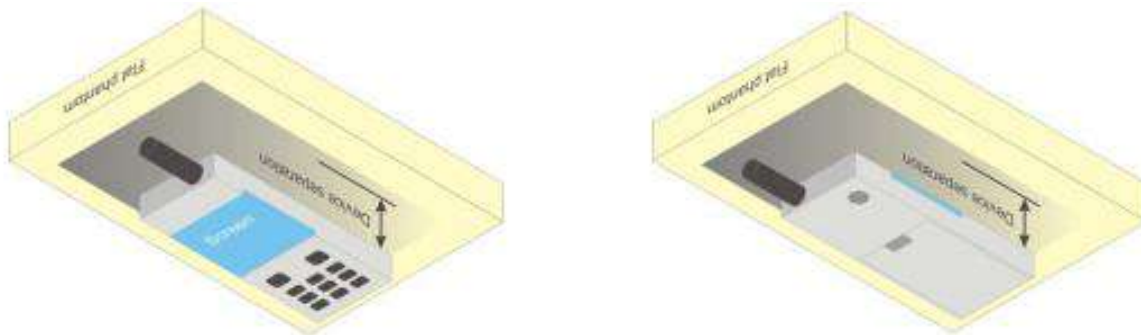


## 6.2 Body-worn Position Conditions

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.

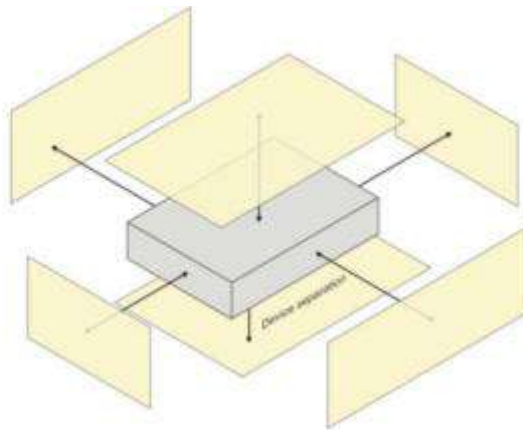
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.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

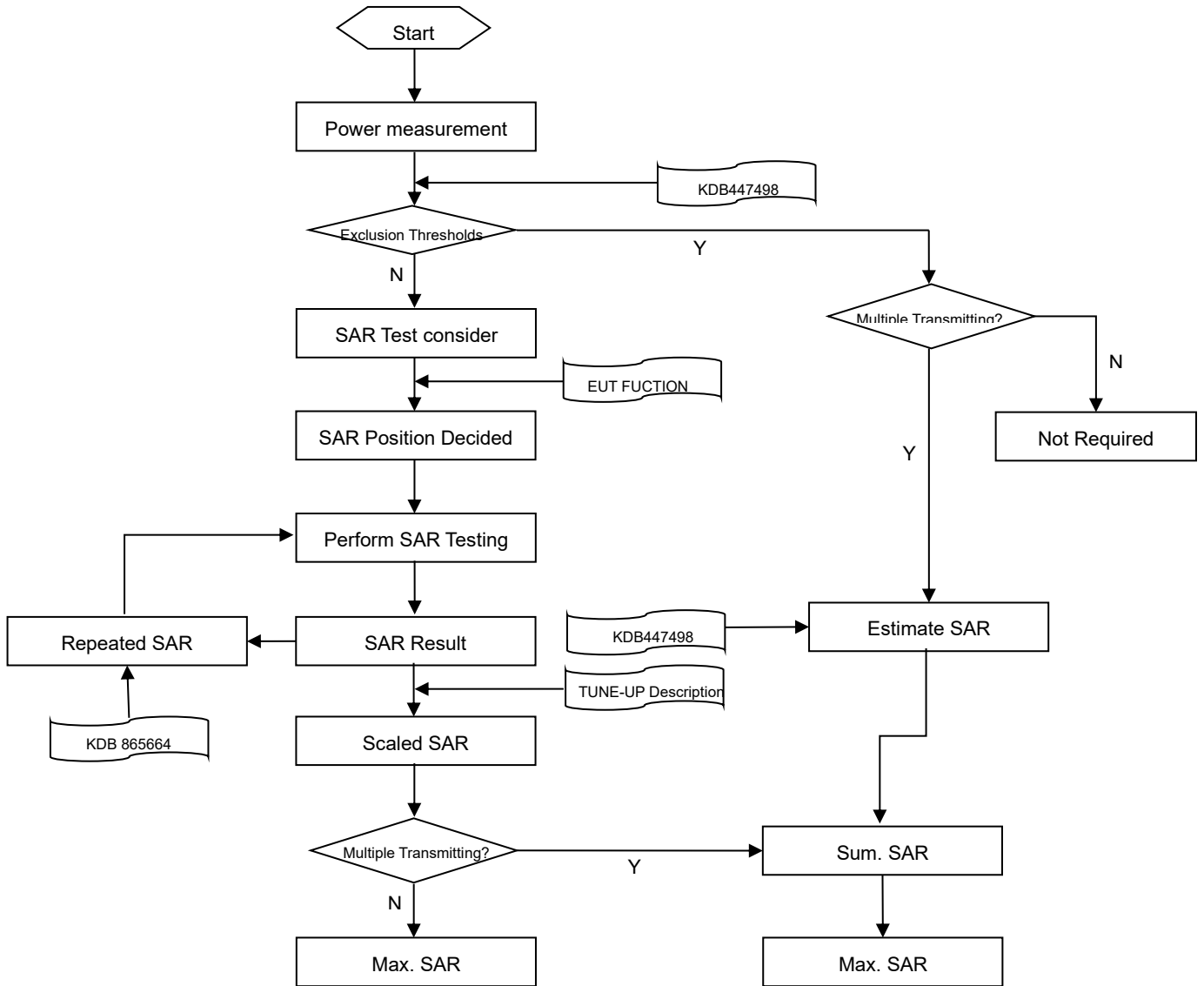
The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at  $\leq 25$  mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 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.

## **8 CONDUCTED RF OUPUT POWER**

### **8.1 GSM**

Please refer the document “BL-SZ2410719-AP Power List.pdf”.

### **8.2 WCDMA**

Please refer the document “BL-SZ2410719-AP Power List.pdf”.

### **8.3 LTE**

Please refer the document “BL-SZ2410719-AP Power List.pdf”.

## 8.4 WIFI

### 8.4.1 2.4G WIFI-Full Power

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	13.21	14.50	No
		6	2437	13.19	14.50	No
		11	2462	13.55	14.50	No
	802.11g	1	2412	15.70	17.00	No
		6	2437	17.19	19.00	No
		11	2462	15.07	17.00	No
	802.11n(HT20)	1	2412	15.65	16.50	No
		6	2437	17.16	19.00	No
		11	2462	15.00	16.50	No
	VHT20	3	2422	11.98	13.50	No
		6	2437	13.16	14.50	No
		9	2452	12.20	13.50	No
	VHT40	1	2412	15.65	17.00	No
		6	2437	17.09	19.00	No
		11	2462	15.04	17.00	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 (802.11b/g/n/VHT) 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., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n.
- 3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg, OFDM SAR test is not required.

## 8.4.2 2.4G WIFI-Level 1

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	13.21	14.50	Yes
		6	2437	13.19	14.50	Yes
		11	2462	<b>13.55</b>	14.50	Yes
	802.11g	1	2412	15.70	17.00	Yes
		6	2437	<b>16.16</b>	17.50	Yes
		11	2462	15.07	17.00	Yes
	802.11n(HT20)	1	2412	15.65	16.50	No
		6	2437	17.16	17.50	No
		11	2462	15.00	16.50	No
	VHT20	3	2422	11.98	13.50	No
		6	2437	13.16	14.50	No
		9	2452	12.20	13.50	No
	VHT40	1	2412	15.65	17.00	No
		6	2437	17.09	17.50	No
		11	2462	15.04	17.00	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 (802.11b/g/n/VHT) 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., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n.



## 8.4.3 2.4G WIFI-Level 2

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	13.21	14.50	Yes
		6	2437	13.19	14.50	Yes
		11	2462	<b>13.55</b>	14.50	Yes
	802.11g	1	2412	13.58	15.00	Yes
		6	2437	13.49	15.00	Yes
		11	2462	<b>14.02</b>	15.00	Yes
	802.11n(HT20)	1	2412	14.29	15.00	No
		6	2437	13.15	15.00	No
		11	2462	13.66	15.00	No
	VHT20	3	2422	11.98	13.50	No
		6	2437	13.16	14.50	No
		9	2452	12.20	13.50	No
	VHT40	1	2412	13.54	15.00	No
		6	2437	13.15	15.00	No
		11	2462	12.94	15.00	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 (802.11b/g/n/VHT) 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., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n.

## 8.4.4 2.4G WIFI-Level 3

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	13.21	14.50	Yes
		6	2437	13.19	14.50	Yes
		11	2462	<b>13.55</b>	14.50	Yes
	802.11g	1	2412	15.70	17.00	Yes
		6	2437	<b>17.19</b>	19.00	Yes
		11	2462	15.07	17.00	Yes
	802.11n(HT20)	1	2412	15.65	16.50	No
		6	2437	17.16	19.00	No
		11	2462	15.00	16.50	No
	VHT20	3	2422	11.98	13.50	No
		6	2437	13.16	14.50	No
		9	2452	12.20	13.50	No
	VHT40	1	2412	15.65	17.00	No
		6	2437	17.09	19.00	No
		11	2462	15.04	17.00	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 (802.11b/g/n/VHT) 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., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n.

## 8.4.5 2.4G WIFI-Level 4

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	13.21	14.50	Yes
		6	2437	13.19	14.50	Yes
		11	2462	<b>13.55</b>	14.50	Yes
	802.11g	1	2412	15.70	17.00	Yes
		6	2437	<b>16.16</b>	17.00	Yes
		11	2462	15.07	17.00	Yes
	802.11n(HT20)	1	2412	15.65	16.50	No
		6	2437	16.16	17.00	No
		11	2462	15.00	16.50	No
	VHT20	3	2422	11.98	13.50	No
		6	2437	13.16	14.50	No
		9	2452	12.20	13.50	No
	VHT40	1	2412	15.65	17.00	No
		6	2437	16.13	17.00	No
		11	2462	15.04	17.00	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 (802.11b/g/n/VHT) 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., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n.

## 8.4.6 5G WIFI-Full Power

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	12.62	14.50	No
		44	5220	14.72	16.50	No
		48	5240	14.89	16.50	No
	802.11n(HT20)	36	5180	13.48	14.50	No
		44	5220	14.56	16.50	No
		48	5240	14.74	16.50	No
	802.11n(HT40)	38	5190	12.02	14.00	No
		46	5230	15.11	17.00	No
	802.11ac(VHT20)	36	5180	13.41	15.00	No
		44	5220	14.45	16.00	No
		48	5240	14.07	16.00	No
	802.11ac(VHT40)	38	5190	11.38	13.00	No
		46	5230	14.54	16.50	No
	802.11ac(VHT80)	42	5210	10.78	12.50	No
5.3 (5.25~5.35)	802.11a	52	5260	<b>16.93</b>	18.50	Yes
		60	5300	15.78	17.50	Yes
		64	5320	13.49	15.00	Yes
	802.11n(HT20)	52	5260	16.81	17.00	No
		60	5300	15.68	17.00	No
		64	5320	13.33	14.00	No
	802.11n(HT40)	54	5270	16.70	18.00	No
		62	5310	11.47	13.00	No
	802.11ac(VHT20)	52	5260	16.70	18.50	No
		60	5300	16.70	17.50	No
		64	5320	13.30	15.00	No
	802.11ac(VHT40)	54	5270	16.71	18.00	No
		62	5310	11.39	13.00	No
	802.11ac(VHT80)	58	5290	11.43	13.00	No
5.6 (5.47~5.725)	802.11a	100	5500	10.06	12.00	Yes
		116	5580	<b>17.70</b>	19.00	Yes
		140	5700	10.44	12.00	Yes
	802.11n(HT20)	100	5500	10.40	12.00	No
		116	5580	17.55	18.50	No
		140	5700	10.35	12.00	No
	802.11n(HT40)	102	5510	8.14	10.00	No
118		5590	16.11	18.00	No	

		134	5670	15.77	17.50	No
	802.11ac(VHT20)	100	5500	10.05	12.00	No
		116	5580	17.53	19.00	No
		140	5700	10.46	12.00	No
	802.11ac(VHT40)	102	5510	8.08	10.00	No
		118	5590	16.61	18.00	No
		134	5670	15.65	17.50	No
	802.11ac(VHT80)	106	5530	10.79	12.50	No
		122	5690	13.73	15.50	No
	5.8 (5.725~5.850)	802.11a	149	5745	17.73	19.00
157			5785	17.65	19.00	No
165			5825	17.02	19.00	No
802.11n(HT20)		149	5745	17.05	19.00	No
		157	5785	17.52	19.00	No
		165	5825	17.32	19.00	No
802.11n(HT40)		151	5755	16.51	18.00	No
		159	5795	16.38	18.00	No
802.11ac(VHT20)		149	5745	17.54	19.00	No
		157	5785	17.20	19.00	No
		165	5825	17.13	19.00	No
802.11ac(VHT40)		151	5755	16.50	18.00	No
		159	5795	16.39	18.00	No
802.11ac(VHT80)		155	5775	12.91	14.50	No

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.

## 8.4.7 5G WIFI-Level 1

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	12.62	14.50	No
		44	5220	14.72	16.50	No
		48	5240	14.89	16.50	No
	802.11n(HT20)	36	5180	13.48	14.50	No
		44	5220	14.56	16.50	No
		48	5240	14.74	16.50	No
	802.11n(HT40)	38	5190	12.02	14.00	No
		46	5230	15.11	16.50	No
	802.11ac(VHT20)	36	5180	13.41	15.00	No
		44	5220	14.45	16.00	No
		48	5240	14.07	16.00	No
	802.11ac(VHT40)	38	5190	11.38	13.00	No
		46	5230	14.54	16.50	No
	802.11ac(VHT80)	42	5210	10.78	12.50	No
5.3 (5.25~5.35)	802.11a	52	5260	14.88	16.50	No
		60	5300	14.85	16.50	No
		64	5320	14.79	15.00	No
	802.11n(HT20)	52	5260	16.44	16.50	No
		60	5300	15.35	16.50	No
		64	5320	13.33	14.00	No
	802.11n(HT40)	54	5270	<b>14.76</b>	16.50	Yes
		62	5310	11.47	13.00	Yes
	802.11ac(VHT20)	52	5260	14.76	16.50	No
		60	5300	15.52	16.50	No
		64	5320	13.30	15.00	No
	802.11ac(VHT40)	54	5270	13.32	16.50	No
		62	5310	11.39	13.00	No
	802.11ac(VHT80)	58	5290	11.43	13.00	No
5.6 (5.47~5.725)	802.11a	100	5500	10.06	12.00	No
		116	5580	15.12	16.50	No
		140	5700	10.44	12.00	No
	802.11n(HT20)	100	5500	10.40	12.00	No
		116	5580	14.88	16.50	No
		140	5700	10.35	12.00	No
	802.11n(HT40)	102	5510	8.14	10.00	Yes
		118	5590	<b>16.11</b>	16.50	Yes

		134	5670	15.77	16.50	Yes
	802.11ac(VHT20)	100	5500	10.05	12.00	No
		116	5580	14.93	16.50	No
		140	5700	10.46	12.00	No
	802.11ac(VHT40)	102	5510	8.08	10.00	No
		118	5590	14.93	16.50	No
		134	5670	15.65	16.50	No
	802.11ac(VHT80)	106	5530	15.15	12.50	No
		122	5690	15.23	15.50	No
	5.8 (5.725~5.850)	802.11a	149	5745	15.42	16.50
157			5785	15.10	16.50	No
165			5825	14.60	16.50	No
802.11n(HT20)		149	5745	14.52	16.50	No
		157	5785	14.99	16.50	No
		165	5825	14.80	16.50	No
802.11n(HT40)		151	5755	<b>15.17</b>	16.50	Yes
		159	5795	15.04	16.50	Yes
802.11ac(VHT20)		149	5745	15.24	16.50	No
		157	5785	14.60	16.50	No
		165	5825	14.71	16.50	No
802.11ac(VHT40)		151	5755	14.91	16.50	No
		159	5795	15.08	16.50	No
802.11ac(VHT80)		155	5775	12.91	14.50	No

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.

## 8.4.8 5G WIFI-Level 2

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	11.03	12.50	No
		44	5220	10.85	12.50	No
		48	5240	10.86	12.50	No
	802.11n(HT20)	36	5180	10.85	12.50	No
		44	5220	10.85	12.50	No
		48	5240	11.09	12.50	No
	802.11n(HT40)	38	5190	10.94	12.50	No
		46	5230	10.98	12.50	No
	802.11ac(VHT20)	36	5180	10.87	12.50	No
		44	5220	10.92	12.50	No
		48	5240	10.95	12.50	No
	802.11ac(VHT40)	38	5190	10.86	12.50	No
		46	5230	10.94	12.50	No
	802.11ac(VHT80)	42	5210	10.77	12.50	No
5.3 (5.25~5.35)	802.11a	52	5260	10.92	12.50	No
		60	5300	10.95	12.50	No
		64	5320	11.03	12.50	No
	802.11n(HT20)	52	5260	10.92	12.50	No
		60	5300	10.98	12.50	No
		64	5320	11.06	12.50	No
	802.11n(HT40)	54	5270	11.13	12.50	No
		62	5310	11.08	12.50	No
	802.11ac(VHT20)	52	5260	10.92	12.50	No
		60	5300	10.98	12.50	No
		64	5320	11.01	12.50	No
	802.11ac(VHT40)	54	5270	11.03	12.50	No
		62	5310	11.02	12.50	No
	802.11ac(VHT80)	58	5290	<b>10.75</b>	12.50	yes
5.6 (5.47~5.725)	802.11a	100	5500	10.87	12.00	No
		116	5580	10.86	12.50	No
		140	5700	10.94	12.00	No
	802.11n(HT20)	100	5500	10.86	12.00	No
		116	5580	11.13	12.50	No
		140	5700	11.07	12.00	No
	802.11n(HT40)	102	5510	10.92	10.00	No
		118	5590	10.99	12.50	No



		134	5670	10.89	12.50	No
	802.11ac(VHT20)	100	5500	11.08	12.00	No
		116	5580	10.93	12.50	No
		140	5700	11.04	12.00	No
	802.11ac(VHT40)	102	5510	11.09	10.00	No
		118	5590	11.09	12.50	No
		134	5670	10.93	12.50	No
	802.11ac(VHT80)	106	5530	10.65	12.50	Yes
		122	5690	<b>10.73</b>	12.50	Yes
	5.8 (5.725~5.850)	802.11a	149	5745	11.05	12.50
157			5785	11.14	12.50	No
165			5825	10.91	12.50	No
802.11n(HT20)		149	5745	11.14	12.50	No
		157	5785	10.91	12.50	No
		165	5825	10.87	12.50	No
802.11n(HT40)		151	5755	11.02	12.50	No
		159	5795	11.13	12.50	No
802.11ac(VHT20)		149	5745	10.92	12.50	No
		157	5785	10.91	12.50	No
		165	5825	11.15	12.50	No
802.11ac(VHT40)		151	5755	11.08	12.50	No
		159	5795	11.11	12.50	No
802.11ac(VHT80)		155	5775	<b>10.93</b>	12.50	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.

## 8.4.9 5G WIFI-Level 3

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	12.62	14.50	No
		44	5220	14.72	16.50	No
		48	5240	14.89	16.50	No
	802.11n(HT20)	36	5180	13.48	14.50	No
		44	5220	14.56	16.50	No
		48	5240	14.74	16.50	No
	802.11n(HT40)	38	5190	12.02	14.00	No
		46	5230	15.11	16.50	No
	802.11ac(VHT20)	36	5180	13.41	15.00	No
		44	5220	14.45	16.00	No
		48	5240	14.07	16.00	No
	802.11ac(VHT40)	38	5190	11.38	13.00	No
		46	5230	14.54	16.50	No
802.11ac(VHT80)	42	5210	10.78	12.50	No	
5.3 (5.25~5.35)	802.11a	52	5260	14.91	16.50	No
		60	5300	14.96	16.50	No
		64	5320	13.49	15.00	No
	802.11n(HT20)	52	5260	16.47	16.50	No
		60	5300	15.15	16.50	No
		64	5320	13.33	14.00	No
	802.11n(HT40)	54	5270	<b>14.76</b>	16.50	Yes
		62	5310	11.47	13.00	Yes
	802.11ac(VHT20)	52	5260	14.67	16.50	No
		60	5300	15.80	16.50	No
		64	5320	13.30	15.00	No
	802.11ac(VHT40)	54	5270	15.29	16.50	No
		62	5310	11.39	13.00	No
	802.11ac(VHT80)	58	5290	11.43	13.00	No
	5.6 (5.47~5.725)	802.11a	100	5500	10.06	12.00
116			5580	<b>17.70</b>	18.50	Yes
140			5700	10.44	12.00	Yes
802.11n(HT20)		100	5500	10.40	12.00	No
		116	5580	17.55	18.50	No
		140	5700	10.35	12.00	No
802.11n(HT40)		102	5510	8.14	10.00	No
		118	5590	16.11	18.00	No

		134	5670	15.77	17.50	No
	802.11ac(VHT20)	100	5500	10.05	12.00	No
		116	5580	17.53	18.50	No
		140	5700	10.46	12.00	No
	802.11ac(VHT40)	102	5510	8.08	10.00	No
		118	5590	16.61	18.00	No
		134	5670	15.65	17.50	No
	802.11ac(VHT80)	106	5530	10.79	12.50	No
		122	5690	<b>13.73</b>	15.50	Yes
	5.8 (5.725~5.850)	802.11a	149	5745	<b>17.73</b>	19.00
157			5785	17.65	19.00	Yes
165			5825	17.02	19.00	Yes
802.11n(HT20)		149	5745	17.05	19.00	No
		157	5785	17.52	19.00	No
		165	5825	17.32	19.00	No
802.11n(HT40)		151	5755	16.51	18.00	No
		159	5795	16.38	18.00	No
802.11ac(VHT20)		149	5745	17.54	19.00	No
		157	5785	17.20	19.00	No
		165	5825	17.13	19.00	No
802.11ac(VHT40)		151	5755	16.50	18.00	No
		159	5795	16.39	18.00	No
802.11ac(VHT80)		155	5775	12.91	14.50	No

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.

## 8.4.10 5G WIFI-Level 4

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	11.00	13.00	No
		44	5220	11.25	13.00	No
		48	5240	11.46	13.00	No
	802.11n(HT20)	36	5180	11.93	13.00	No
		44	5220	11.25	13.00	No
		48	5240	11.19	13.00	No
	802.11n(HT40)	38	5190	11.18	13.00	No
		46	5230	11.01	13.00	No
	802.11ac(VHT20)	36	5180	11.41	13.00	No
		44	5220	11.35	13.00	No
		48	5240	10.89	13.00	No
	802.11ac(VHT40)	38	5190	11.40	13.00	No
46		5230	11.04	13.00	No	
802.11ac(VHT80)	42	5210	<b>10.70</b>	12.50	Yes	
5.3 (5.25~5.35)	802.11a	52	5260	11.46	13.00	No
		60	5300	11.46	13.00	No
		64	5320	11.30	13.00	No
	802.11n(HT20)	52	5260	12.76	13.00	No
		60	5300	11.52	13.00	No
		64	5320	12.44	13.00	No
	802.11n(HT40)	54	5270	11.84	13.00	No
		62	5310	11.52	13.00	No
	802.11ac(VHT20)	52	5260	11.05	13.00	No
		60	5300	11.30	13.00	No
		64	5320	11.10	13.00	No
	802.11ac(VHT40)	54	5270	11.74	13.00	No
62		5310	11.39	13.00	No	
802.11ac(VHT80)	58	5290	<b>11.43</b>	13.00	Yes	
5.6 (5.47~5.725)	802.11a	100	5500	10.14	12.00	No
		116	5580	11.77	13.00	No
		140	5700	10.29	12.00	No
	802.11n(HT20)	100	5500	10.40	12.00	No
		116	5580	11.68	13.00	No
		140	5700	10.35	12.00	No
	802.11n(HT40)	102	5510	8.14	10.00	No
118		5590	11.30	13.00	No	

		134	5670	11.16	13.00	No
	802.11ac(VHT20)	100	5500	10.05	12.00	No
		116	5580	11.39	13.00	No
		140	5700	10.46	12.00	No
	802.11ac(VHT40)	102	5510	8.08	10.00	No
		118	5590	11.54	13.00	No
		134	5670	11.02	13.00	No
	802.11ac(VHT80)	106	5530	11.65	12.50	Yes
		122	5690	<b>11.78</b>	13.00	Yes
	5.8 (5.725~5.850)	802.11a	149	5745	11.85	13.00
157			5785	11.76	13.00	No
165			5825	11.20	13.00	No
802.11n(HT20)		149	5745	10.96	13.00	No
		157	5785	11.38	13.00	No
		165	5825	11.30	13.00	No
802.11n(HT40)		151	5755	11.44	13.00	No
		159	5795	11.56	13.00	No
802.11ac(VHT20)		149	5745	11.45	13.00	No
		157	5785	11.15	13.00	No
		165	5825	11.22	13.00	No
802.11ac(VHT40)		151	5755	11.41	13.00	No
		159	5795	11.59	13.00	No
802.11ac(VHT80)		155	5775	<b>11.95</b>	13.00	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.

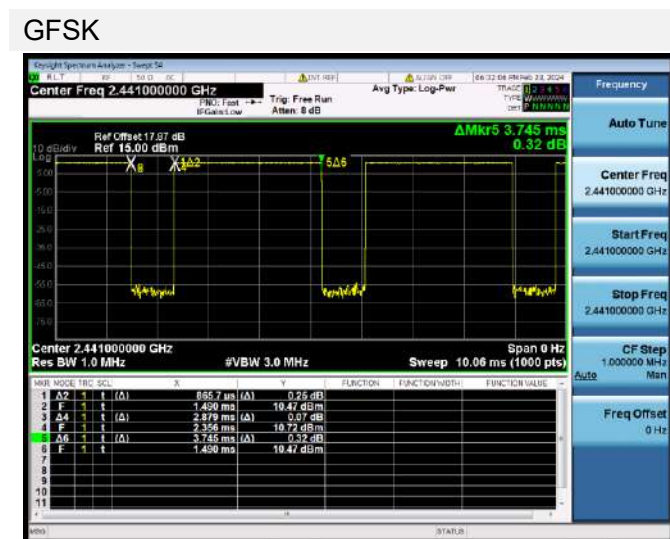
### 8.5 Bluetooth

Mode	GFSK			π/4-DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Conducted Power (dBm)	<b>9.76</b>	9.63	8.77	6.69	6.53	6.12
Tune-Up Limit (dBm)	10.00	10.00	10.00	7.00	7.00	7.00
SAR Test Require	YES	YES	YES	NO	NO	NO
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Conducted Power (dBm)	6.71	6.27	5.84	/	/	/
Tune-Up Limit (dBm)	7.00	7.00	7.00	/	/	/
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
Conducted Power (dBm)	3.51	3.23	3.13	3.61	3.44	3.21
Tune-Up Limit (dBm)	4.00	4.00	4.00	4.00	4.00	4.00
SAR Test Require	NO	NO	NO	NO	NO	NO

Note 1: Since bluetooth BR mode is the maximum output power mode, SAR measurements were performed with test software using DH5 modulation, and SAR measurement is not required for the EDR and LE. When the secondary mode is ≤ ¼ dB higher than the primary mode.

Note: The Bluetooth duty cycle is 76.88 % 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



## 8.6 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, and the receiver will work, the power reduction will applied for SAR compliance.
3. When there is a voice call (including VOIP), the audio is actively routed through the headset or speaker, and the receiver will not work, which indicating the body exposure conditions will trigger the body/Limbs exposure reduced the power.
4. When this device used data mode only, and the receiver will not work too, the reduced the power are same as body exposure.

**WWAN Reduced power level table**

Reduced State	Receiver state	Transmitting conditions
State1	On (Head scenario)	WWAN Only&WWAN+BT
State3	On (Head scenario)	WWAN + WLAN 2.4G/WLAN 5G + BT
State2	Off (Body scenario)	WWAN Only&WWAN+BT
State4	Off (Body scenario)	WWAN + WLAN 2.4G/WLAN 5G + BT

Mode	Antenna	WWAN Antenna1				
		Full Power	Head		Body	
			Receiver on		Receiver off	
			State1	State3	Body-worm/Specific State2	Body-worm/Hotspot/Specific State4
GSM 850	ANT1	33.50	33.50	33.50	33.50	33.50
GPRS850 1 Tx Slot	ANT1	33.50	33.50	33.50	33.50	33.50
GPRS850 2 Tx Slots	ANT1	30.50	30.50	30.50	30.50	30.50
GPRS850 3 Tx Slots	ANT1	29.00	29.00	29.00	29.00	29.00
GPRS850 4 Tx Slots	ANT1	28.00	28.00	28.00	28.00	28.00
EGPRS850 1 Tx Slot	ANT1	27.00	27.00	27.00	27.00	27.00
EGPRS850 2 Tx Slots	ANT1	24.00	24.00	24.00	24.00	24.00
EGPRS850 3 Tx Slots	ANT1	23.00	23.00	23.00	23.00	23.00
EGPRS850 4 Tx Slots	ANT1	22.00	22.00	22.00	22.00	22.00
GSM 1900	ANT1	30.50	26.50	26.50	29.70	28.50
GPRS1900 1 Tx Slot	ANT1	30.50	26.50	26.50	29.70	28.50
GPRS1900 2 Tx Slots	ANT1	27.50	23.50	23.50	26.70	25.50
GPRS1900 3 Tx Slots	ANT1	26.00	22.00	22.00	25.20	24.00
GPRS1900 4 Tx Slots	ANT1	25.00	21.00	21.00	24.20	23.00

EGPRS1900 1 Tx Slot	ANT1	26.50	22.50	22.50	25.70	24.50
EGPRS1900 2 Tx Slots	ANT1	24.00	20.00	20.00	23.20	22.00
EGPRS1900 3 Tx Slots	ANT1	23.00	19.00	19.00	22.20	21.00
EGPRS1900 4 Tx Slots	ANT1	21.50	17.50	17.50	20.70	19.50
WCDMA Band2 RMC	ANT1	24.00	16.50	16.50	19.50	18.60
AMR	ANT1	24.00	16.50	16.50	19.50	18.60
HSDPA Subtest-1	ANT1	23.50	16.00	16.00	19.00	18.10
HSDPA Subtest-2	ANT1	23.50	16.00	16.00	19.00	18.10
HSDPA Subtest-3	ANT1	22.50	15.00	15.00	18.00	17.10
HSDPA Subtest-4	ANT1	22.50	15.00	15.00	18.00	17.10
DC-HSDPA Subtest-1	ANT1	23.50	16.00	16.00	19.00	18.10
DC-HSDPA Subtest-2	ANT1	23.50	16.00	16.00	19.00	18.10
DC-HSDPA Subtest-3	ANT1	22.50	15.00	15.00	18.00	17.10
DC-HSDPA Subtest-4	ANT1	22.50	15.00	15.00	18.00	17.10
HSUPA Subtest-1	ANT1	22.50	15.00	15.00	18.00	17.10
HSUPA Subtest-2	ANT1	22.50	15.00	15.00	18.00	17.10
HSUPA Subtest-3	ANT1	23.50	16.00	16.00	19.00	18.10
HSUPA Subtest-4	ANT1	22.00	14.50	14.50	17.50	16.60
HSUPA Subtest-5	ANT1	23.50	16.00	16.00	19.00	18.10
HSPA+	ANT1	22.50	15.00	15.00	18.00	17.10
WCDMA Band4 RMC	ANT1	24.00	19.70	19.70	21.30	20.00
AMR	ANT1	24.00	19.70	19.70	21.30	20.00
HSDPA Subtest-1	ANT1	23.50	19.20	19.20	20.80	19.50
HSDPA Subtest-2	ANT1	23.50	19.20	19.20	20.80	19.50
HSDPA Subtest-3	ANT1	22.50	18.20	18.20	19.80	18.50
HSDPA Subtest-4	ANT1	22.50	18.20	18.20	19.80	18.50
DC-HSDPA Subtest-1	ANT1	23.50	19.20	19.20	20.80	19.50
DC-HSDPA Subtest-2	ANT1	23.50	19.20	19.20	20.80	19.50
DC-HSDPA Subtest-3	ANT1	22.50	18.20	18.20	19.80	18.50
DC-HSDPA Subtest-4	ANT1	22.50	18.20	18.20	19.80	18.50
HSUPA Subtest-1	ANT1	22.50	18.20	18.20	19.80	18.50
HSUPA Subtest-2	ANT1	22.50	18.20	18.20	19.80	18.50
HSUPA Subtest-3	ANT1	23.50	19.20	19.20	20.80	19.50
HSUPA Subtest-4	ANT1	22.00	17.70	17.70	19.30	18.00
HSUPA Subtest-5	ANT1	23.50	19.20	19.20	20.80	19.50
HSPA+	ANT1	22.50	18.20	18.20	19.80	18.50
WCDMA Band5 RMC	ANT1	24.50	23.50	23.50	24.50	24.50
AMR	ANT1	24.50	23.50	23.50	24.50	24.50
HSDPA Subtest-1	ANT1	23.50	22.50	22.50	23.50	23.50
HSDPA Subtest-2	ANT1	23.50	22.50	22.50	23.50	23.50
HSDPA Subtest-3	ANT1	23.00	22.00	22.00	23.00	23.00
HSDPA Subtest-4	ANT1	23.00	22.00	22.00	23.00	23.00
DC-HSDPA Subtest-1	ANT1	23.50	22.50	22.50	23.50	23.50



DC-HSDPA Subtest-2	ANT1	23.50	22.50	22.50	23.50	23.50
DC-HSDPA Subtest-3	ANT1	23.00	22.00	22.00	23.00	23.00
DC-HSDPA Subtest-4	ANT1	23.00	22.00	22.00	23.00	23.00
HSUPA Subtest-1	ANT1	23.00	22.00	22.00	23.00	23.00
HSUPA Subtest-2	ANT1	22.50	21.50	21.50	22.50	22.50
HSUPA Subtest-3	ANT1	23.50	22.50	22.50	23.50	23.50
HSUPA Subtest-4	ANT1	22.00	21.00	21.00	22.00	22.00
HSUPA Subtest-5	ANT1	23.50	22.50	22.50	23.50	23.50
HSPA+	ANT1	22.50	21.50	21.50	22.50	22.50
LTE Band2	ANT1	23.50	17.30	17.30	20.50	20.00
LTE Band4	ANT1	23.50	19.00	19.00	21.70	20.30
LTE Band5	ANT1	24.50	23.60	23.60	24.50	24.50
LTE Band7	ANT1	23.50	18.40	18.40	22.00	20.50
LTE Band13	ANT1	24.50	24.50	24.50	24.50	24.50
LTE Band66	ANT1	24.00	18.50	18.50	21.50	20.00
LTE Band38	ANT1	24.00	20.80	20.80	24.00	23.00
LTE Band41	ANT1	24.00	20.80	20.80	24.00	23.00

Mode	Antenna	WWAN Antenna0				
		Full Power	Head		Body	
			Receiver on		Receiver off	
			State1	State3	Body-worm/Specific	Body-worm/Hotspot/Specific
GSM 850	ANT0	33.50	33.50	33.50	33.50	33.50
GPRS850 1 Tx Slot	ANT0	33.50	33.50	33.50	33.50	33.50
GPRS850 2 Tx Slots	ANT0	30.50	30.50	30.50	30.50	30.50
GPRS850 3 Tx Slots	ANT0	29.00	29.00	29.00	29.00	29.00
GPRS850 4 Tx Slots	ANT0	28.00	28.00	28.00	28.00	28.00
EGPRS850 1 Tx Slot	ANT0	27.00	27.00	27.00	27.00	27.00
EGPRS850 2 Tx Slots	ANT0	24.00	24.00	24.00	24.00	24.00
EGPRS850 3 Tx Slots	ANT0	23.00	23.00	23.00	23.00	23.00
EGPRS850 4 Tx Slots	ANT0	22.00	22.00	22.00	22.00	22.00
GSM 1900	ANT0	30.50	30.50	30.50	30.50	30.50
GPRS1900 1 Tx Slot	ANT0	30.50	30.50	30.50	30.50	30.50
GPRS1900 2 Tx Slots	ANT0	27.50	27.50	27.50	27.50	27.50
GPRS1900 3 Tx Slots	ANT0	26.00	26.00	26.00	26.00	26.00
GPRS1900 4 Tx Slots	ANT0	25.00	25.00	25.00	25.00	25.00
EGPRS1900 1 Tx Slot	ANT0	26.50	26.50	26.50	26.50	26.50
EGPRS1900 2 Tx Slots	ANT0	24.00	24.00	24.00	24.00	24.00
EGPRS1900 3 Tx Slots	ANT0	23.00	23.00	23.00	23.00	23.00
EGPRS1900 4 Tx Slots	ANT0	21.50	21.50	21.50	21.50	21.50
WCDMA Band2 RMC	ANT0	24.00	24.00	24.00	23.50	22.20
AMR	ANT0	24.00	24.00	24.00	23.50	22.20

HSDPA Subtest-1	ANT0	23.50	23.50	23.50	23.00	21.70
HSDPA Subtest-2	ANT0	23.50	23.50	23.50	23.00	21.70
HSDPA Subtest-3	ANT0	22.50	22.50	22.50	22.00	20.70
HSDPA Subtest-4	ANT0	22.50	22.50	22.50	22.00	20.70
DC-HSDPA Subtest-1	ANT0	23.50	23.50	23.50	23.00	21.70
DC-HSDPA Subtest-2	ANT0	23.50	23.50	23.50	23.00	21.70
DC-HSDPA Subtest-3	ANT0	22.50	22.50	22.50	22.00	20.70
DC-HSDPA Subtest-4	ANT0	22.50	22.50	22.50	22.00	20.70
HSUPA Subtest-1	ANT0	22.50	22.50	22.50	22.00	20.70
HSUPA Subtest-2	ANT0	22.50	22.50	22.50	22.00	20.70
HSUPA Subtest-3	ANT0	23.50	23.50	23.50	23.00	21.70
HSUPA Subtest-4	ANT0	22.00	22.00	22.00	21.50	20.20
HSUPA Subtest-5	ANT0	23.50	23.50	23.50	23.00	21.70
HSPA+	ANT0	22.50	22.50	22.50	22.00	20.70
WCDMA Band4 RMC	ANT0	24.00	24.00	24.00	23.00	22.00
AMR	ANT0	24.00	24.00	24.00	23.00	22.00
HSDPA Subtest-1	ANT0	23.50	23.50	23.50	22.50	21.50
HSDPA Subtest-2	ANT0	23.50	23.50	23.50	22.50	21.50
HSDPA Subtest-3	ANT0	22.50	22.50	22.50	21.50	20.50
HSDPA Subtest-4	ANT0	22.50	22.50	22.50	21.50	20.50
DC-HSDPA Subtest-1	ANT0	23.50	23.50	23.50	22.50	21.50
DC-HSDPA Subtest-2	ANT0	23.50	23.50	23.50	22.50	21.50
DC-HSDPA Subtest-3	ANT0	22.50	22.50	22.50	21.50	20.50
DC-HSDPA Subtest-4	ANT0	22.50	22.50	22.50	21.50	20.50
HSUPA Subtest-1	ANT0	22.50	22.50	22.50	21.50	20.50
HSUPA Subtest-2	ANT0	22.50	22.50	22.50	21.50	20.50
HSUPA Subtest-3	ANT0	23.50	23.50	23.50	22.50	21.50
HSUPA Subtest-4	ANT0	22.00	22.00	22.00	21.00	20.00
HSUPA Subtest-5	ANT0	23.50	23.50	23.50	22.50	21.50
HSPA+	ANT0	22.50	22.50	22.50	21.50	20.50
WCDMA Band5 RMC	ANT0	24.50	24.50	24.50	24.50	24.00
AMR	ANT0	24.50	24.50	24.50	24.50	24.00
HSDPA Subtest-1	ANT0	23.50	23.50	23.50	23.50	23.00
HSDPA Subtest-2	ANT0	23.50	23.50	23.50	23.50	23.00
HSDPA Subtest-3	ANT0	23.00	23.00	23.00	23.00	22.50
HSDPA Subtest-4	ANT0	23.00	23.00	23.00	23.00	22.50
DC-HSDPA Subtest-1	ANT0	23.50	23.50	23.50	23.50	23.00
DC-HSDPA Subtest-2	ANT0	23.50	23.50	23.50	23.50	23.00
DC-HSDPA Subtest-3	ANT0	23.00	23.00	23.00	23.00	22.50
DC-HSDPA Subtest-4	ANT0	23.00	23.00	23.00	23.00	22.50
HSUPA Subtest-1	ANT0	23.00	23.00	23.00	23.00	22.50
HSUPA Subtest-2	ANT0	22.50	22.50	22.50	22.50	22.00
HSUPA Subtest-3	ANT0	23.50	23.50	23.50	23.50	23.00

HSUPA Subtest-4	ANT0	22.00	22.00	22.00	22.00	21.50
HSUPA Subtest-5	ANT0	23.50	23.50	23.50	23.50	23.00
HSPA+	ANT0	22.50	22.50	22.50	22.50	22.00
LTE Band2	ANT0	23.50	23.50	23.50	23.50	22.60
LTE Band4	ANT0	23.50	23.50	23.50	22.70	22.50
LTE Band5	ANT0	24.50	24.50	24.50	24.50	24.50
LTE Band7	ANT0	23.50	23.50	23.50	23.50	22.20
LTE Band12	ANT0	24.50	24.50	24.50	24.50	24.50
LTE Band66	ANT0	24.00	24.00	24.00	23.00	22.50
LTE Band38	ANT0	24.00	24.00	24.00	24.00	24.00
LTE Band41	ANT0	24.00	24.00	24.00	24.00	24.00

**WLAN&BT Reduced power level table**

Reduced State	Receiver state	Transmitting conditions
Level1	On (Head scenario)	WLAN 2.4G Only WLAN 5G Only BT Only
Level2	On (Head scenario)	WWAN + WLAN 2.4G/WLAN 5G + BT
Level3	Off (Body scenario)	WLAN 2.4G Only WLAN 5G Only BT Only
Level4	Off (Body scenario)	WWAN + WLAN 2.4G/WLAN 5G + BT

Mode	Antenna	WLAN Antenna3				
		Full Power	Head		Body	
			Receiver on		Receiver off	
			Level1	Level2	Body-worm/Specific Level3	Body-worm/Hotspot/Specific Level4
2.4G WLAN 802.11b	Ant.3	14.50	14.50	14.50	14.50	14.50
2.4G WLAN 802.11g	Ant.3	19.00	17.50	15.00	19.00	17.00
2.4G WLAN 802.11n20	Ant.3	19.00	17.50	15.00	19.00	17.00
2.4G WLAN 802.11n40	Ant.3	14.50	14.50	14.50	14.50	14.50
2.4G WLAN 802.11ac20	Ant.3	19.00	17.50	15.00	19.00	17.00
2.4G WLAN 802.11ac40	Ant.3	14.50	14.50	14.50	14.50	14.50
5.2G WLAN 802.11a	Ant.3	16.50	16.50	12.50	16.50	13.00
5.2G WLAN 802.11n20	Ant.3	16.50	16.50	12.50	16.50	13.00
5.2G WLAN 802.11n40	Ant.3	17.00	16.50	12.50	16.50	13.00
5.2G WLAN 802.11ac20	Ant.3	16.00	16.00	12.50	16.00	13.00
5.2G WLAN 802.11ac40	Ant.3	16.50	16.50	12.50	16.50	13.00
5.2G WLAN 802.11ac80	Ant.3	12.50	12.50	12.50	12.50	12.50
5.3G WLAN 802.11a	Ant.3	18.50	16.50	12.50	16.50	13.00
5.3G WLAN 802.11n20	Ant.3	17.00	16.50	12.50	16.50	13.00
5.3G WLAN 802.11n40	Ant.3	18.00	16.50	12.50	16.50	13.00
5.3G WLAN 802.11ac20	Ant.3	18.50	16.50	12.50	16.50	13.00
5.3G WLAN 802.11ac40	Ant.3	18.00	16.50	12.50	16.50	13.00
5.3G WLAN 802.11ac80	Ant.3	13.00	13.00	12.50	13.00	13.00
5.6G WLAN 802.11a	Ant.3	19.00	16.50	12.50	18.50	13.00
5.6G WLAN 802.11n20	Ant.3	18.50	16.50	12.50	18.50	13.00
5.6G WLAN 802.11n40	Ant.3	18.00	16.50	12.50	18.00	13.00
5.6G WLAN 802.11ac20	Ant.3	19.00	16.50	12.50	18.50	13.00
5.6G WLAN 802.11ac40	Ant.3	18.00	16.50	12.50	18.00	13.00
5.6G WLAN 802.11ac80	Ant.3	15.50	15.50	12.50	15.50	13.00
5.8G WLAN 802.11a	Ant.3	19.00	16.50	12.50	19.00	13.00

5.8G WLAN 802.11n20	Ant.3	19.00	16.50	12.50	19.00	13.00
5.8G WLAN 802.11n40	Ant.3	18.00	16.50	12.50	18.00	13.00
5.8G WLAN 802.11ac20	Ant.3	19.00	16.50	12.50	19.00	13.00
5.8G WLAN 802.11ac40	Ant.3	18.00	16.50	12.50	18.00	13.00
5.8G WLAN 802.11ac80	Ant.3	14.50	14.50	12.50	14.50	13.00
Bluetooth	Ant.3	10.00	10.00	10.00	10.00	10.00

## 9 TEST EXCLUSION CONSIDERATION

Please refer the document “BL-SZ2410719-AI EUT internal photo.pdf”.

Antenna	Front Side(mm)	Back Side(mm)	Left Edge(mm)	Right Edge(mm)	Top Edge(mm)	Bottom Edge(mm)
Ant.1	<25	<25	>25	<25	<25	>25
Ant.0	<25	<25	<25	<25	>25	<25
Ant.3	<25	<25	<25	>25	<25	>25

Note: 1.Per KDB 941225 DO6,When the overall length and width of a device is > 9 cm \*5 cm, a test separation distance of 10 mm is required for hotspot mode SAR measurements and hotspot mode SAR is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge.

# 10 TEST RESULT

## 10.1 GSM 850

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>													
Ant.1	State1&3	4Slots	Left Cheek	0	251	848.8	0.07	0.590	26.95	28.00	1.274	0.752	/
	State1&3		Left Tilt	0	251	848.8	0.16	0.570	26.95	28.00	1.274	0.726	/
	State1&3		Right Cheek	0	251	848.8	-0.06	0.757	26.95	28.00	1.274	0.964	/
	State1&3		Right Tilt	0	251	848.8	-0.18	0.678	26.95	28.00	1.274	0.864	/
	State1&3		Right Cheek	0	128	824.2	-0.02	0.802	26.83	28.00	1.309	<b>1.050</b>	1#
	State1&3		Right Cheek	0	251	848.8	-0.10	0.760	26.85	28.00	1.303	0.990	/
Ant.0	State1&3	4Slots	Left Cheek	0	190	836.6	0.10	0.167	26.60	27.00	1.096	0.183	/
	State1&3		Left Tilt	0	190	836.6	0.02	0.075	26.60	27.00	1.096	0.082	/
	State1&3		Right Cheek	0	190	836.6	0.02	0.131	26.60	27.00	1.096	0.144	/
	State1&3		Right Tilt	0	190	836.6	0.00	0.056	26.60	27.00	1.096	0.061	/
<b>Body-worn</b>													
Ant.1	State2&4	4Slots	Front Side	15	190	836.6	0.00	0.083	26.95	28.00	1.274	0.106	/
	State2&4		Back Side	15	190	836.6	0.11	0.106	26.95	28.00	1.274	0.135	/
Ant.0	State2&4	4Slots	Front Side	15	190	836.6	-0.03	0.120	26.60	27.00	1.096	0.132	/
	State2&4		Back Side	15	190	836.6	0.01	0.148	26.60	27.00	1.096	<b>0.162</b>	2#
<b>Hotspot</b>													
Ant.1	State4	4Slots	Front Side	10	190	836.6	0.06	0.136	26.95	28.00	1.274	0.173	/
	State4		Back Side	10	190	836.6	-0.09	0.179	26.95	28.00	1.274	0.228	/
	State4		Right Edge	10	190	836.6	0.18	0.097	26.95	28.00	1.274	0.124	/
	State4		Top Edge	10	190	836.6	0.18	0.176	26.95	28.00	1.274	0.224	/
Ant.0	State4	4Slots	Front Side	10	190	836.6	-0.14	0.145	26.60	27.00	1.096	0.159	/
	State4		Back Side	10	190	836.6	-0.05	0.315	26.60	27.00	1.096	<b>0.345</b>	3#
	State4		Left Edge	10	190	836.6	0.17	0.082	26.60	27.00	1.096	0.090	/
	State4		Right Edge	10	190	836.6	-0.16	0.129	26.60	27.00	1.096	0.141	/
	State4		Bottom Edge	10	190	836.6	-0.09	0.212	26.60	27.00	1.096	0.232	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

### 10.2 GSM 1900

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>													
Ant.1	State1&3	4Slots	Left Cheek	0	661	1880	0.05	0.379	19.93	21.00	1.279	0.485	/
	State1&3		Left Tilt	0	661	1880	0.11	0.478	19.93	21.00	1.279	0.611	/
	State1&3		Right Cheek	0	661	1880	-0.11	0.605	19.93	21.00	1.279	0.774	/
	State1&3		Right Tilt	0	661	1880	0.14	0.780	19.93	21.00	1.279	0.998	/
	State1&3		Right Tilt	0	512	1850.2	0.00	0.830	19.81	21.00	1.315	<b>1.091</b>	<b>4#</b>
	State1&3		Right Tilt	0	810	1909.8	0.09	0.733	19.78	21.00	1.324	0.970	/
Ant.0	State1&3	4Slots	Left Cheek	0	661	1880	-0.18	0.060	23.69	24.00	1.074	0.064	/
	State1&3		Left Tilt	0	661	1880	-0.05	0.033	23.69	24.00	1.074	0.035	/
	State1&3		Right Cheek	0	661	1880	0.14	0.053	23.69	24.00	1.074	0.057	/
	State1&3		Right Tilt	0	661	1880	-0.07	0.021	23.69	24.00	1.074	0.023	/
<b>Body-worn</b>													
Ant.1	State2	4Slots	Front Side	15	661	1880	0.07	0.121	23.35	24.20	1.216	0.147	/
	State2		Back Side	15	661	1880	0.03	0.401	23.35	24.20	1.216	<b>0.488</b>	<b>5#</b>
	State4		Front Side	15	661	1880	-0.04	0.085	22.14	23.00	1.219	0.104	/
	State4		Back Side	15	661	1880	-0.04	0.315	22.14	23.00	1.219	0.384	/
Ant.0	State2&4	4Slots	Front Side	15	661	1880	0.09	0.052	23.69	24.00	1.074	0.056	/
	State2&4		Back Side	15	661	1880	-0.08	0.099	23.69	24.00	1.074	0.106	/
<b>Hotspot</b>													
Ant.1	State4	4Slots	Front Side	10	661	1880	-0.15	0.223	22.14	23.00	1.219	0.272	/
	State4		Back Side	10	661	1880	0.00	0.527	22.14	23.00	1.219	0.642	/
	State4		Right Edge	10	661	1880	0.10	0.069	22.14	23.00	1.219	0.084	/
	State4		Top Edge	10	661	1880	0.14	0.609	22.14	23.00	1.219	<b>0.742</b>	<b>6#</b>
	State4		Top Edge	10	512	1850.2	-0.13	0.556	22.11	23.00	1.227	0.682	/
	State4		Top Edge	10	810	1909.8	-0.04	0.534	22.08	23.00	1.236	0.660	/
Ant.0	State4	4Slots	Front Side	10	661	1880	0.13	0.094	23.69	24.00	1.074	0.101	/
	State4		Back Side	10	661	1880	0.06	0.159	23.69	24.00	1.074	0.171	/
	State4		Left Edge	10	661	1880	-0.01	0.052	23.69	24.00	1.074	0.056	/
	State4		Right Edge	10	661	1880	0.10	0.023	23.69	24.00	1.074	0.025	/
	State4		Bottom Edge	10	661	1880	0.01	0.243	23.69	24.00	1.074	0.261	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													



### 10.3WCDMA Band 2

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>													
Ant.1	State1&3	RMC	Left Cheek	0	9400	1880	0.07	0.565	16.08	16.50	1.102	0.623	/
	State1&3		Left Tilt	0	9400	1880	0.05	0.711	16.08	16.50	1.102	0.784	/
	State1&3		Right Cheek	0	9400	1880	0.10	0.721	16.08	16.50	1.102	0.795	/
	State1&3		Right Tilt	0	9400	1880	-0.01	0.922	16.08	16.50	1.102	1.016	/
	State1&3		Right Tilt	0	9262	1852.4	-0.15	0.895	16.07	16.50	1.104	0.988	/
	State1&3		Right Tilt	0	9538	1907.6	-0.03	1.020	15.96	16.50	1.132	<b>1.155</b>	<b>7#</b>
Ant.0	State1&3	RMC	Left Cheek	0	9400	1880	-0.04	0.109	23.66	24.00	1.081	0.118	/
	State1&3		Left Tilt	0	9400	1880	0.10	0.123	23.66	24.00	1.081	0.133	/
	State1&3		Right Cheek	0	9400	1880	0.01	0.088	23.66	24.00	1.081	0.095	/
	State1&3		Right Tilt	0	9400	1880	0.03	0.088	23.66	24.00	1.081	0.095	/
<b>Body-worn</b>													
Ant.1	State2	RMC	Front Side	15	9400	1880	0.18	0.135	19.08	19.50	1.102	0.149	/
	State2		Back Side	15	9400	1880	-0.17	0.281	19.08	19.50	1.102	0.310	/
	State4	RMC	Front Side	15	9400	1880	0.00	0.110	18.10	18.60	1.122	0.123	/
	State4		Back Side	15	9400	1880	0.08	0.228	18.10	18.60	1.122	0.256	/
Ant.0	State2	RMC	Front Side	15	9400	1880	-0.08	0.246	22.98	23.50	1.127	0.277	/
	State2		Back Side	15	9400	1880	0.03	0.457	22.98	23.50	1.127	<b>0.515</b>	<b>8#</b>
	State4	RMC	Front Side	15	9400	1880	0.05	0.183	21.65	22.20	1.135	0.208	/
	State4		Back Side	15	9400	1880	-0.18	0.323	21.65	22.20	1.135	0.367	/
<b>Hotspot</b>													
Ant.1	State4	RMC	Front Side	10	9400	1880	-0.14	0.245	18.10	18.60	1.122	0.275	/
	State4		Back Side	10	9400	1880	0.00	0.479	18.10	18.60	1.122	0.537	/
	State4		Right Edge	10	9400	1880	0.11	0.074	18.10	18.60	1.122	0.083	/
	State4		Top Edge	10	9400	1880	0.04	0.654	18.10	18.60	1.122	<b>0.734</b>	<b>9#</b>
Ant.0	State4	RMC	Front Side	10	9400	1880	-0.05	0.252	21.65	22.20	1.135	0.286	/
	State4		Back Side	10	9400	1880	-0.05	0.448	21.65	22.20	1.135	0.508	/
	State4		Left Edge	10	9400	1880	0.08	0.149	21.65	22.20	1.135	0.169	/
	State4		Right Edge	10	9400	1880	-0.06	0.082	21.65	22.20	1.135	0.093	/
	State4		Bottom Edge	10	9400	1880	-0.13	0.601	21.65	22.20	1.135	0.682	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
<b>Specific</b>													
Ant.1	State2	RMC	Back Side	0	9400	1880	0.06	1.510	19.08	19.50	1.102	1.664	/
	State2		Top Edge	0	9400	1880	0.05	1.550	19.08	19.50	1.102	<b>1.708</b>	10#
Ant.1	State4	RMC	Back Side	0	9400	1880	-0.17	1.130	18.10	18.60	1.122	1.268	/
	State4		Top Edge	0	9400	1880	-0.12	1.060	18.10	18.60	1.122	1.189	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

### 10.4WCDMA Band 4

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>													
Ant.1	State1&3	RMC	Left Cheek	0	1312	1712.4	0.01	0.501	19.39	19.70	1.074	0.538	/
	State1&3		Left Tilt	0	1312	1712.4	-0.17	0.556	19.39	19.70	1.074	0.597	/
	State1&3		Right Cheek	0	1312	1712.4	-0.06	0.613	19.39	19.70	1.074	0.658	/
	State1&3		Right Tilt	0	1312	1712.4	0.11	0.801	19.39	19.70	1.074	0.860	/
	State1&3		Right Tilt	0	1312	1712.4	-0.16	0.833	19.24	19.70	1.112	0.926	/
	State1&3		Right Tilt	0	1513	1752.6	-0.03	0.916	19.37	19.70	1.079	<b>0.988</b>	11#
Ant.0	State1&3	RMC	Left Cheek	0	1312	1712.4	0.15	0.075	23.71	24.00	1.069	0.080	/
	State1&3		Left Tilt	0	1312	1712.4	0.14	0.128	23.71	24.00	1.069	0.137	/
	State1&3		Right Cheek	0	1312	1712.4	0.11	0.052	23.71	24.00	1.069	0.056	/
	State1&3		Right Tilt	0	1312	1712.4	-0.08	0.051	23.71	24.00	1.069	0.055	/
<b>Body-worn</b>													
Ant.1	State2	RMC	Front Side	15	1312	1712.4	0.09	0.098	21.00	21.30	1.072	0.105	/
	State2		Back Side	15	1312	1712.4	-0.09	0.132	21.00	21.30	1.072	0.142	/
	State4	RMC	Front Side	15	1312	1712.4	0.14	0.073	19.77	20.00	1.054	0.077	/
	State4		Back Side	15	1312	1712.4	-0.01	0.098	19.77	20.00	1.054	0.103	/
Ant.0	State2	RMC	Front Side	15	1312	1712.4	-0.02	0.173	22.57	23.00	1.104	0.191	/
	State2		Back Side	15	1312	1712.4	0.02	0.314	22.57	23.00	1.104	<b>0.347</b>	12#
	State4	RMC	Front Side	15	1312	1712.4	-0.09	0.137	21.54	22.00	1.112	0.152	/
	State4		Back Side	15	1312	1712.4	-0.17	0.231	21.54	22.00	1.112	0.257	/
<b>Hotspot</b>													
Ant.1	State4	RMC	Front Side	10	1312	1712.4	0.18	0.148	19.77	20.00	1.054	0.156	/
	State4		Back Side	10	1312	1712.4	0.10	0.213	19.77	20.00	1.054	0.225	/
	State4		Right Edge	10	1312	1712.4	-0.16	0.035	19.77	20.00	1.054	0.037	/
	State4		Top Edge	10	1312	1712.4	0.14	0.267	19.77	20.00	1.054	0.281	/
Ant.0	State4	RMC	Front Side	10	1312	1712.4	-0.13	0.251	21.54	22.00	1.112	0.279	/
	State4		Back Side	10	1312	1712.4	0.15	0.433	21.54	22.00	1.112	0.481	/
	State4		Left Edge	10	1312	1712.4	-0.07	0.101	21.54	22.00	1.112	0.112	/
	State4		Right Edge	10	1312	1712.4	-0.18	0.089	21.54	22.00	1.112	0.099	/
	State4		Bottom Edge	10	1312	1712.4	-0.04	0.552	21.54	22.00	1.112	<b>0.614</b>	13#
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

### 10.5WCDMA Band 5

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>													
Ant.1	State1&3	RMC	Left Cheek	0	4182	836.4	-0.15	0.491	22.94	23.50	1.138	0.559	/
	State1&3		Left Tilt	0	4182	836.4	-0.14	0.441	22.94	23.50	1.138	0.502	/
	State1&3		Right Cheek	0	4182	836.4	-0.07	0.685	22.94	23.50	1.138	<b>0.780</b>	14#
	State1&3		Right Tilt	0	4182	836.4	-0.03	0.517	22.94	23.50	1.138	0.588	/
Ant.0	State1&3	RMC	Left Cheek	0	4182	836.4	-0.09	0.168	23.94	24.50	1.138	0.191	/
	State1&3		Left Tilt	0	4182	836.4	-0.08	0.127	23.94	24.50	1.138	0.145	/
	State1&3		Right Cheek	0	4182	836.4	0.06	0.163	23.94	24.50	1.138	0.185	/
	State1&3		Right Tilt	0	4182	836.4	0.07	0.083	23.94	24.50	1.138	0.094	/
<b>Body-worn</b>													
Ant.1	State2&4	RMC	Front Side	15	4182	836.4	0.03	0.147	23.97	24.50	1.130	0.166	/
	State2&4		Back Side	15	4182	836.4	-0.19	0.152	23.97	24.50	1.130	0.172	/
Ant.0	State2	RMC	Front Side	15	4182	836.4	0.12	0.145	23.94	24.50	1.138	0.165	/
	State2		Back Side	15	4182	836.4	-0.02	0.216	23.94	24.50	1.138	<b>0.246</b>	15#
	State4	RMC	Front Side	15	4182	836.4	-0.12	0.129	23.17	24.00	1.211	0.156	/
	State4		Back Side	15	4182	836.4	-0.08	0.160	23.17	24.00	1.211	0.194	/
<b>Hotspot</b>													
Ant.1	State4	RMC	Front Side	10	4182	836.4	-0.03	0.143	23.97	24.50	1.130	0.162	/
	State4		Back Side	10	4182	836.4	0.03	0.179	23.97	24.50	1.130	0.202	/
	State4		Right Edge	10	4182	836.4	0.19	0.133	23.97	24.50	1.130	0.150	/
	State4		Top Edge	10	4182	836.4	0.06	0.191	23.97	24.50	1.130	0.216	/
Ant.0	State4	RMC	Front Side	10	4182	836.4	0.11	0.129	23.17	24.00	1.211	0.156	/
	State4		Back Side	10	4182	836.4	0.02	0.249	23.17	24.00	1.211	<b>0.302</b>	16#
	State4		Left Edge	10	4182	836.4	0.09	0.081	23.17	24.00	1.211	0.098	/
	State4		Right Edge	10	4182	836.4	0.13	0.174	23.17	24.00	1.211	0.211	/
	State4		Bottom Edge	10	4182	836.4	0.15	0.198	23.17	24.00	1.211	0.240	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

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

Antenna	Power Reduction	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	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>															
Ant.1	State3	QPSK	Left Cheek	0	19100	1900	1	Mid	-0.01	0.434	16.88	17.30	1.102	0.478	/
	State3		Left Tilt	0	19100	1900	1	Mid	0.11	0.539	16.88	17.30	1.102	0.594	/
	State3		Right Cheek	0	19100	1900	1	Mid	-0.14	0.622	16.88	17.30	1.102	0.685	/
	State3		Right Tilt	0	19100	1900	1	Mid	0.09	0.732	16.88	17.30	1.102	0.807	/
	State3		Left Cheek	0	19100	1900	50	Mid	-0.07	0.434	16.81	17.30	1.119	0.486	/
	State3		Left Tilt	0	19100	1900	50	Mid	0.14	0.601	16.81	17.30	1.119	0.673	/
	State3		Right Cheek	0	19100	1900	50	Mid	0.18	0.633	16.81	17.30	1.119	0.708	/
	State3		Right Tilt	0	19100	1900	50	Mid	-0.06	0.745	16.81	17.30	1.119	0.834	/
	State3		Right Tilt	0	18700	1860	1	Mid	-0.08	0.645	16.71	17.30	1.146	0.739	/
	State3		Right Tilt	0	18900	1880	1	Mid	-0.06	0.662	16.81	17.30	1.119	0.741	/
	State3		Right Tilt	0	18700	1860	50	High	0.02	0.760	16.79	17.30	1.125	<b>0.855</b>	17#
	State3		Right Tilt	0	18900	1880	50	Low	0.19	0.681	16.67	17.30	1.156	0.787	/
	State3		Right Tilt	0	18700	1860	100	Low	0.13	0.679	16.77	17.30	1.130	0.767	/
Ant.0	State1&3	QPSK	Left Cheek	0	19100	1900	1	Mid	0.00	0.116	23.07	23.50	1.104	0.128	/
	State1&3		Left Tilt	0	19100	1900	1	Mid	-0.17	0.046	23.07	23.50	1.104	0.051	/
	State1&3		Right Cheek	0	19100	1900	1	Mid	-0.07	0.104	23.07	23.50	1.104	0.115	/
	State1&3		Right Tilt	0	19100	1900	1	Mid	0.02	0.050	23.07	23.50	1.104	0.055	/
	State1&3		Left Cheek	0	19100	1900	50	Mid	-0.12	0.101	22.00	22.50	1.122	0.113	/
	State1&3		Left Tilt	0	19100	1900	50	Mid	-0.08	0.042	22.00	22.50	1.122	0.047	/
	State1&3		Right Cheek	0	19100	1900	50	Mid	0.09	0.095	22.00	22.50	1.122	0.107	/
	State1&3		Right Tilt	0	19100	1900	50	Mid	-0.07	0.046	22.00	22.50	1.122	0.052	/
<b>Body-worn</b>															
Ant.1	State2	QPSK	Front Side	15	19100	1900	1	Mid	-0.14	0.099	20.07	20.50	1.104	0.109	/
	State2		Back Side	15	19100	1900	1	Mid	0.04	0.205	20.07	20.50	1.104	0.226	/
	State2		Front Side	15	19100	1900	50	Mid	-0.13	0.105	20.03	20.50	1.114	0.117	/
	State2		Back Side	15	19100	1900	50	Mid	-0.17	0.222	20.03	20.50	1.114	0.247	/
	State4	QPSK	Front Side	15	19100	1900	1	Mid	0.06	0.088	19.58	20.00	1.102	0.097	/
	State4		Back Side	15	19100	1900	1	Mid	-0.08	0.183	19.58	20.00	1.102	0.202	/
	State4		Front Side	15	19100	1900	50	Mid	-0.13	0.094	19.61	20.00	1.094	0.103	/
	State4		Back Side	15	19100	1900	50	Mid	0.15	0.198	19.61	20.00	1.094	0.217	/
Ant.0	State2	QPSK	Front Side	15	19100	1900	1	Mid	-0.08	0.198	23.07	23.50	1.104	0.219	/
	State2		Back Side	15	19100	1900	1	Mid	0.03	0.422	23.07	23.50	1.104	<b>0.466</b>	18#
	State2		Front Side	15	19100	1900	50	Mid	0.17	0.175	22.00	22.50	1.122	0.196	/
	State2		Back Side	15	19100	1900	50	Mid	-0.12	0.342	22.00	22.50	1.122	0.384	/
	State4	QPSK	Front Side	15	19100	1900	1	Mid	0.03	0.161	22.04	22.60	1.138	0.183	/

	State4		Back Side	15	19100	1900	1	Mid	-0.02	0.277	22.04	22.60	1.138	0.315	/
	State4		Front Side	15	19100	1900	50	Mid	0.04	0.168	21.99	22.50	1.125	0.189	/
	State4		Back Side	15	19100	1900	50	Mid	-0.03	0.335	21.99	22.50	1.125	0.377	/
<b>Hotspot</b>															
Ant.1	State4	QPSK	Front Side	10	19100	1900	1	Mid	-0.13	0.230	19.58	20.00	1.102	0.253	/
	State4		Back Side	10	19100	1900	1	Mid	-0.06	0.572	19.58	20.00	1.102	0.630	/
	State4		Right Edge	10	19100	1900	1	Mid	-0.17	0.058	19.58	20.00	1.102	0.064	/
	State4		Top Edge	10	19100	1900	1	Mid	0.07	0.554	19.58	20.00	1.102	0.611	/
	State4		Front Side	10	19100	1900	50	Mid	-0.14	0.244	19.61	20.00	1.094	0.267	/
	State4		Back Side	10	19100	1900	50	Mid	0.19	0.495	19.61	20.00	1.094	0.542	/
	State4		Right Edge	10	19100	1900	50	Mid	0.15	0.053	19.61	20.00	1.094	0.058	/
	State4		Top Edge	10	19100	1900	50	Mid	0.03	0.593	19.61	20.00	1.094	0.649	/
Ant.0	State4	QPSK	Front Side	10	19100	1900	1	Mid	0.03	0.270	22.04	22.60	1.138	0.307	/
	State4		Back Side	10	19100	1900	1	Mid	-0.11	0.522	22.04	22.60	1.138	0.594	/
	State4		Left Edge	10	19100	1900	1	Mid	0.05	0.145	22.04	22.60	1.138	0.165	/
	State4		Right Edge	10	19100	1900	1	Mid	0.03	0.086	22.04	22.60	1.138	0.098	/
	State4		Bottom Edge	10	19100	1900	1	Mid	0.15	0.596	22.04	22.60	1.138	0.678	/
	State4		Front Side	10	19100	1900	50	Mid	-0.03	0.293	21.99	22.50	1.125	0.330	/
	State4		Back Side	10	19100	1900	50	Mid	0.06	0.504	21.99	22.50	1.125	0.567	/
	State4		Left Edge	10	19100	1900	50	Mid	0.18	0.161	21.99	22.50	1.125	0.181	/
	State4		Right Edge	10	19100	1900	50	Mid	-0.13	0.098	21.99	22.50	1.125	0.110	/
	State4		Bottom Edge	10	19100	1900	50	Mid	0.11	0.621	21.99	22.50	1.125	<b>0.699</b>	19#

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

Antenna	Power Reduction	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 Scaled SAR (W/kg)	Meas. No.
<b>Specific</b>															
Ant.1	State2	QPSK	Back Side	0	19100	1900	1	Mid	-0.17	1.510	20.07	20.50	1.104	1.667	/
	State2		Top Edge	0	19100	1900	1	Mid	0.06	1.550	20.07	20.50	1.104	1.711	/
	State2		Back Side	0	19100	1900	50	Mid	-0.19	1.620	20.03	20.50	1.114	1.805	/
	State2		Top Edge	0	19100	1900	50	Mid	0.05	1.780	20.03	20.50	1.114	<b>1.983</b>	20#
Ant.1	State4		Back Side	10	19100	1900	1	Mid	0.06	1.210	19.58	20.00	1.102	1.333	/
	State4		Top Edge	10	19100	1900	1	Mid	0.04	1.260	19.58	20.00	1.102	1.389	/
	State4		Back Side	10	19100	1900	50	Mid	-0.06	1.330	19.61	20.00	1.094	1.455	/
	State4		Top Edge	10	19100	1900	50	Mid	-0.15	1.280	19.61	20.00	1.094	1.400	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

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

Antenna	Power Reduction	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	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>															
Ant.1	State1&3	QPSK	Left Cheek	0	20175	1732.5	1	Mid	0.00	0.421	17.43	19.00	1.435	0.604	/
	State1&3		Left Tilt	0	20175	1732.5	1	Mid	-0.16	0.533	17.43	19.00	1.435	0.765	/
	State1&3		Right Cheek	0	20175	1732.5	1	Mid	-0.09	0.554	17.43	19.00	1.435	0.795	/
	State1&3		Right Tilt	0	20175	1732.5	1	Mid	0.05	0.621	17.43	19.00	1.435	0.891	/
	State1&3		Left Cheek	0	20175	1732.5	50	Mid	0.17	0.432	17.39	19.00	1.449	0.626	/
	State1&3		Left Tilt	0	20175	1732.5	50	Mid	0.03	0.545	17.39	19.00	1.449	0.790	/
	State1&3		Right Cheek	0	20175	1732.5	50	Mid	-0.16	0.563	17.39	19.00	1.449	0.816	/
	State1&3		Right Tilt	0	20175	1732.5	50	Mid	-0.12	0.656	17.39	19.00	1.449	0.951	/
	State1&3		Right Tilt	0	20050	1720	1	Mid	0.12	0.588	17.31	19.00	1.476	0.868	/
	State1&3		Right Tilt	0	20300	1745	1	Mid	-0.08	0.656	17.39	19.00	1.449	0.951	/
	State1&3		Right Tilt	0	20050	1720	50	Mid	0.18	0.634	17.18	19.00	1.521	0.964	/
	State1&3		Right Tilt	0	20300	1745	50	Mid	-0.17	0.660	17.38	19.00	1.452	0.958	/
	State1&3		Right Tilt	0	20175	1732.5	100	Low	-0.11	0.704	17.41	19.00	1.442	<b>1.015</b>	21#
Ant.0	State1&3	QPSK	Left Cheek	0	20175	1732.5	1	Mid	-0.09	0.112	23.04	23.50	1.112	0.125	/
	State1&3		Left Tilt	0	20175	1732.5	1	Mid	0.01	0.045	23.04	23.50	1.112	0.050	/
	State1&3		Right Cheek	0	20175	1732.5	1	Mid	-0.07	0.054	23.04	23.50	1.112	0.060	/
	State1&3		Right Tilt	0	20175	1732.5	1	Mid	-0.07	0.044	23.04	23.50	1.112	0.049	/
	State1&3		Left Cheek	0	20175	1732.5	50	Mid	-0.15	0.098	21.92	22.50	1.143	0.112	/
	State1&3		Left Tilt	0	20175	1732.5	50	Mid	-0.01	0.035	21.92	22.50	1.143	0.040	/
	State1&3		Right Cheek	0	20175	1732.5	50	Mid	0.11	0.040	21.92	22.50	1.143	0.046	/
	State1&3		Right Tilt	0	20175	1732.5	50	Mid	-0.10	0.032	21.92	22.50	1.143	0.037	/
<b>Body-worn</b>															
Ant.1	State2	QPSK	Front Side	15	20175	1732.5	1	Mid	-0.07	0.128	21.22	21.70	1.117	0.143	/
	State2		Back Side	15	20175	1732.5	1	Mid	0.17	0.184	21.22	21.70	1.117	0.206	/
	State2		Front Side	15	20175	1732.5	50	Mid	0.10	0.154	21.15	21.70	1.135	0.175	/
	State2		Back Side	15	20175	1732.5	50	Mid	0.01	0.194	21.15	21.70	1.135	0.220	/
	State4	QPSK	Front Side	15	20175	1732.5	1	Mid	0.06	0.093	19.88	20.30	1.102	0.102	/
	State4		Back Side	15	20175	1732.5	1	Mid	0.00	0.133	19.88	20.30	1.102	0.147	/
	State4		Front Side	15	20175	1732.5	50	Mid	0.04	0.112	19.77	20.30	1.130	0.127	/
	State4		Back Side	15	20175	1732.5	50	Mid	0.03	0.141	19.77	20.30	1.130	0.159	/
Ant.0	State2	QPSK	Front Side	15	20175	1732.5	1	Mid	-0.17	0.156	22.18	22.70	1.127	0.176	/
	State2		Back Side	15	20175	1732.5	1	Mid	-0.06	0.220	22.18	22.70	1.127	0.248	/
	State2		Front Side	15	20175	1732.5	50	Mid	0.18	0.160	21.89	22.50	1.151	0.184	/
	State2		Back Side	15	20175	1732.5	50	Mid	0.03	0.235	21.89	22.50	1.151	<b>0.270</b>	22#
	State4	QPSK	Front Side	15	20175	1732.5	1	Mid	0.04	0.149	22.02	22.50	1.117	0.166	/
	State4		Back Side	15	20175	1732.5	1	Mid	0.03	0.228	22.02	22.50	1.117	0.255	/



	State4		Front Side	15	20175	1732.5	50	Mid	-0.12	0.148	21.94	22.50	1.138	0.168	/
	State4		Back Side	15	20175	1732.5	50	Mid	-0.14	0.214	21.94	22.50	1.138	0.244	/
<b>Hotspot</b>															
Ant.1	State4	QPSK	Front Side	10	20175	1732.5	1	Mid	0.09	0.209	19.88	20.30	1.102	0.230	/
	State4		Back Side	10	20175	1732.5	1	Mid	-0.18	0.375	19.88	20.30	1.102	0.413	/
	State4		Right Edge	10	20175	1732.5	1	Mid	-0.02	0.043	19.88	20.30	1.102	0.047	/
	State4		Top Edge	10	20175	1732.5	1	Mid	0.08	0.372	19.88	20.30	1.102	0.410	/
	State4		Front Side	10	20175	1732.5	50	Mid	0.12	0.230	19.77	20.30	1.130	0.260	/
	State4		Back Side	10	20175	1732.5	50	Mid	-0.13	0.415	19.77	20.30	1.130	0.469	/
	State4		Right Edge	10	20175	1732.5	50	Mid	0.08	0.046	19.77	20.30	1.130	0.052	/
	State4		Top Edge	10	20175	1732.5	50	Mid	0.04	0.406	19.77	20.30	1.130	0.459	/
Ant.0	State4	QPSK	Front Side	10	20175	1732.5	1	Mid	0.06	0.259	22.02	22.50	1.117	0.289	/
	State4		Back Side	10	20175	1732.5	1	Mid	0.14	0.440	22.02	22.50	1.117	0.491	/
	State4		Left Edge	10	20175	1732.5	1	Mid	-0.16	0.102	22.02	22.50	1.117	0.114	/
	State4		Right Edge	10	20175	1732.5	1	Mid	0.02	0.087	22.02	22.50	1.117	0.097	/
	State4		Bottom Edge	10	20175	1732.5	1	Mid	-0.18	0.617	22.02	22.50	1.117	0.689	/
	State4		Front Side	10	20175	1732.5	50	Mid	0.08	0.272	21.94	22.50	1.138	0.310	/
	State4		Back Side	10	20175	1732.5	50	Mid	0.13	0.499	21.94	22.50	1.138	0.568	/
	State4		Left Edge	10	20175	1732.5	50	Mid	0.06	0.103	21.94	22.50	1.138	0.117	/
	State4		Right Edge	10	20175	1732.5	50	Mid	-0.11	0.083	21.94	22.50	1.138	0.094	/
	State4		Bottom Edge	10	20175	1732.5	50	Mid	0.16	0.622	21.94	22.50	1.138	<b>0.708</b>	23#
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

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

Antenna	Power Reduction	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	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>															
Ant.1	State1&3	QPSK	Left Cheek	0	20525	836.5	1	Mid	-0.16	0.597	22.61	23.60	1.256	0.750	/
	State1&3		Left Tilt	0	20525	836.5	1	Mid	0.02	0.484	22.61	23.60	1.256	0.608	/
	State1&3		Right Cheek	0	20525	836.5	1	Mid	0.03	0.679	22.61	23.60	1.256	<b>0.853</b>	24#
	State1&3		Right Tilt	0	20525	836.5	1	Mid	-0.08	0.549	22.61	23.60	1.256	0.690	/
	State1&3		Left Cheek	0	20525	836.5	25	Mid	-0.02	0.583	22.53	23.50	1.250	0.729	/
	State1&3		Left Tilt	0	20525	836.5	25	Mid	-0.07	0.473	22.53	23.50	1.250	0.591	/
	State1&3		Right Cheek	0	20525	836.5	25	Mid	0.07	0.615	22.53	23.50	1.250	0.769	/
	State1&3		Right Tilt	0	20525	836.5	25	Mid	0.12	0.537	22.53	23.50	1.250	0.671	/
	State1&3		Right Cheek	0	20450	829	1	Mid	0.15	0.593	22.50	23.60	1.288	0.764	/
	State1&3		Right Cheek	0	20600	844	1	Mid	0.15	0.614	22.59	23.60	1.262	0.775	/
	State1&3		Right Cheek	0	20450	829	25	High	0.02	0.616	22.52	23.50	1.253	0.772	/
	State1&3		Right Cheek	0	20600	844	25	Low	-0.05	0.628	22.52	23.50	1.253	0.787	/
	State1&3		Right Cheek	0	20525	836.5	50	Low	-0.17	0.608	22.53	23.50	1.250	0.760	/
Ant.0	State1&3	QPSK	Left Cheek	0	20525	836.5	1	Mid	0.08	0.121	23.49	24.50	1.262	0.153	/
	State1&3		Left Tilt	0	20525	836.5	1	Mid	0.04	0.055	23.49	24.50	1.262	0.069	/
	State1&3		Right Cheek	0	20525	836.5	1	Mid	0.08	0.108	23.49	24.50	1.262	0.136	/
	State1&3		Right Tilt	0	20525	836.5	1	Mid	0.11	0.056	23.49	24.50	1.262	0.071	/
	State1&3		Left Cheek	0	20525	836.5	25	Low	0.12	0.099	22.52	24.50	1.578	0.156	/
	State1&3		Left Tilt	0	20525	836.5	25	Low	-0.13	0.046	22.52	24.50	1.578	0.073	/
	State1&3		Right Cheek	0	20525	836.5	25	Low	0.18	0.087	22.52	24.50	1.578	0.137	/
	State1&3		Right Tilt	0	20525	836.5	25	Low	0.04	0.045	22.52	24.50	1.578	0.071	/
<b>Body-worn</b>															
Ant.1	State2&4	QPSK	Front Side	15	20525	836.5	1	Mid	0.16	0.119	23.58	24.50	1.236	0.147	/
	State2&4		Back Side	15	20525	836.5	1	Mid	-0.07	0.152	23.58	24.50	1.236	0.188	/
	State2&4		Front Side	15	20525	836.5	25	Mid	-0.10	0.093	22.54	23.50	1.247	0.116	/
	State2&4		Back Side	15	20525	836.5	25	Mid	0.06	0.120	22.54	23.50	1.247	0.150	/
Ant.0	State2&4	QPSK	Front Side	15	20525	836.5	1	Mid	0.14	0.141	23.49	24.50	1.262	0.178	/
	State2&4		Back Side	15	20525	836.5	1	Mid	0.02	0.207	23.49	24.50	1.262	<b>0.261</b>	25#
	State2&4		Front Side	15	20525	836.5	25	Low	-0.06	0.112	22.52	24.50	1.578	0.177	/
	State2&4		Back Side	15	20525	836.5	25	Low	-0.19	0.147	22.52	24.50	1.578	0.232	/
<b>Hotspot</b>															
Ant.1	State4	QPSK	Front Side	10	20525	836.5	1	Mid	-0.01	0.142	23.58	24.50	1.236	0.176	/
	State4		Back Side	10	20525	836.5	1	Mid	0.07	0.186	23.58	24.50	1.236	0.230	/
	State4		Right Edge	10	20525	836.5	1	Mid	-0.18	0.133	23.58	24.50	1.236	0.164	/
	State4		Top Edge	10	20525	836.5	1	Mid	0.09	0.191	23.58	24.50	1.236	0.236	/
	State4		Front Side	10	20525	836.5	25	Mid	-0.16	0.106	22.54	23.50	1.247	0.132	/

	State4		Back Side	10	20525	836.5	25	Mid	0.15	0.141	22.54	23.50	1.247	0.176	/
	State4		Right Edge	10	20525	836.5	25	Mid	0.09	0.110	22.54	23.50	1.247	0.137	/
	State4		Top Edge	10	20525	836.5	25	Mid	0.10	0.137	22.54	23.50	1.247	0.171	/
Ant.0	State4	QPSK	Front Side	10	20525	836.5	1	Mid	0.18	0.144	23.49	24.50	1.262	0.182	/
	State4		Back Side	10	20525	836.5	1	Mid	-0.06	0.258	23.49	24.50	1.262	<b>0.326</b>	26#
	State4		Left Edge	10	20525	836.5	1	Mid	0.16	0.093	23.49	24.50	1.262	0.117	/
	State4		Right Edge	10	20525	836.5	1	Mid	-0.08	0.183	23.49	24.50	1.262	0.231	/
	State4		Bottom Edge	10	20525	836.5	1	Mid	-0.18	0.212	23.49	24.50	1.262	0.268	/
	State4		Front Side	10	20525	836.5	25	Low	-0.15	0.113	22.52	24.50	1.578	0.178	/
	State4		Back Side	10	20525	836.5	25	Low	-0.04	0.201	22.52	24.50	1.578	0.317	/
	State4		Left Edge	10	20525	836.5	25	Low	-0.07	0.076	22.52	24.50	1.578	0.120	/
	State4		Right Edge	10	20525	836.5	25	Low	-0.04	0.146	22.52	24.50	1.578	0.230	/
	State4		Bottom Edge	10	20450	829	25	Low	-0.16	0.178	22.52	24.50	1.578	0.281	/

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

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

Antenna	Power Reduction	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	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>															
Ant.1	State1&3	QPSK	Left Cheek	0	21100	2535	1	Mid	-0.01	0.197	18.04	18.40	1.086	0.214	/
	State1&3		Left Tilt	0	21100	2535	1	Mid	-0.03	0.130	18.04	18.40	1.086	0.141	/
	State1&3		Right Cheek	0	21100	2535	1	Mid	0.11	0.374	18.04	18.40	1.086	0.406	/
	State1&3		Right Tilt	0	21100	2535	1	Mid	0.00	0.399	18.04	18.40	1.086	0.433	/
	State1&3		Left Cheek	0	21100	2535	50	Mid	-0.15	0.199	17.90	18.40	1.122	0.223	/
	State1&3		Left Tilt	0	21100	2535	50	Mid	0.04	0.142	17.90	18.40	1.122	0.159	/
	State1&3		Right Cheek	0	21100	2535	50	Mid	0.04	0.371	17.90	18.40	1.122	0.416	/
	State1&3		Right Tilt	0	21100	2535	50	Mid	0.03	0.470	17.90	18.40	1.122	<b>0.527</b>	27#
Ant.0	State1&3	QPSK	Left Cheek	0	21100	2535	1	Mid	-0.10	0.133	23.09	23.50	1.099	0.146	/
	State1&3		Left Tilt	0	21100	2535	1	Mid	-0.03	0.045	23.09	23.50	1.099	0.049	/
	State1&3		Right Cheek	0	21100	2535	1	Mid	-0.05	0.221	23.09	23.50	1.099	0.243	/
	State1&3		Right Tilt	0	21100	2535	1	Mid	0.15	0.108	23.09	23.50	1.099	0.119	/
	State1&3		Left Cheek	0	21100	2535	50	Mid	0.10	0.120	22.08	22.50	1.102	0.132	/
	State1&3		Left Tilt	0	21100	2535	50	Mid	-0.14	0.033	22.08	22.50	1.102	0.036	/
	State1&3		Right Cheek	0	21100	2535	50	Mid	0.05	0.199	22.08	22.50	1.102	0.219	/
	State1&3		Right Tilt	0	21100	2535	50	Mid	0.11	0.104	22.08	22.50	1.102	0.115	/
<b>Body-worn</b>															
Ant.1	State2	QPSK	Front Side	15	21100	2535	1	Mid	-0.18	0.110	21.29	22.00	1.178	0.130	/
	State2		Back Side	15	21100	2535	1	Mid	0.00	0.171	21.29	22.00	1.178	0.201	/
	State2		Front Side	15	21100	2535	50	Mid	0.01	0.119	21.14	22.00	1.219	0.145	/
	State2		Back Side	15	21100	2535	50	Mid	0.19	0.176	21.14	22.00	1.219	0.215	/
	State4	QPSK	Front Side	15	21100	2535	1	Mid	-0.02	0.078	19.79	20.50	1.178	0.092	/
	State4		Back Side	15	21100	2535	1	Mid	0.10	0.121	19.79	20.50	1.178	0.143	/
	State4		Front Side	15	21100	2535	50	Mid	0.07	0.084	19.67	20.50	1.211	0.102	/
	State4		Back Side	15	21100	2535	50	Mid	-0.16	0.125	19.67	20.50	1.211	0.151	/
Ant.0	State2	QPSK	Front Side	15	21100	2535	1	Mid	0.08	0.187	23.09	23.50	1.099	0.206	/
	State2		Back Side	15	21100	2535	1	Mid	0.04	0.202	23.09	23.50	1.099	<b>0.222</b>	28#
	State2		Front Side	15	21100	2535	50	Mid	0.13	0.190	22.08	22.50	1.102	0.209	/
	State2		Back Side	15	21100	2535	50	Mid	0.15	0.195	22.08	22.50	1.102	0.215	/
	State4	QPSK	Front Side	15	21100	2535	1	Mid	-0.04	0.161	21.79	22.20	1.099	0.177	/
	State4		Back Side	15	21100	2535	1	Mid	-0.08	0.168	21.79	22.20	1.099	0.185	/
	State4		Front Side	15	21100	2535	50	Mid	0.00	0.177	21.64	22.20	1.138	0.201	/
	State4		Back Side	15	21100	2535	50	Mid	-0.12	0.184	21.64	22.20	1.138	0.209	/
<b>Hotspot</b>															
Ant.1	State4	QPSK	Front Side	10	21100	2535	1	Mid	0.13	0.156	21.29	20.50	0.834	0.130	/
	State4		Back Side	10	21100	2535	1	Mid	0.11	0.244	21.29	20.50	0.834	0.203	/

	State4		Right Edge	10	21100	2535	1	Mid	0.18	0.275	21.29	20.50	0.834	0.229	/
	State4		Top Edge	10	21100	2535	1	Mid	0.14	0.122	21.29	20.50	0.834	0.102	/
	State4		Front Side	10	21100	2535	50	Mid	-0.05	0.156	21.14	20.50	0.863	0.135	/
	State4		Back Side	10	21100	2535	50	Mid	-0.18	0.252	21.14	20.50	0.863	0.217	/
	State4		Right Edge	10	21100	2535	50	Mid	-0.14	0.252	21.14	20.50	0.863	0.217	/
	State4		Top Edge	10	21100	2535	50	Mid	0.01	0.136	21.14	20.50	0.863	0.117	/
Ant.0	State4	QPSK	Front Side	10	21100	2535	1	Mid	0.08	0.260	21.79	22.20	1.099	0.286	/
	State4		Back Side	10	21100	2535	1	Mid	0.10	0.405	21.79	22.20	1.099	0.445	/
	State4		Left Edge	10	21100	2535	1	Mid	-0.07	0.253	21.79	22.20	1.099	0.278	/
	State4		Right Edge	10	21100	2535	1	Mid	0.08	0.041	21.79	22.20	1.099	0.045	/
	State4		Bottom Edge	10	21100	2535	1	Mid	-0.14	0.205	21.79	22.20	1.099	0.225	/
	State4		Front Side	10	21100	2535	50	Mid	0.07	0.323	21.64	22.20	1.138	0.368	/
	State4		Back Side	10	21100	2535	50	Mid	-0.02	0.415	21.64	22.20	1.138	<b>0.472</b>	29#
	State4		Left Edge	10	21100	2535	50	Mid	-0.08	0.242	21.64	22.20	1.138	0.275	/
	State4		Right Edge	10	21100	2535	50	Mid	0.16	0.044	21.64	22.20	1.138	0.050	/
	State4		Bottom Edge	10	21100	2535	50	Mid	-0.06	0.233	21.64	22.20	1.138	0.265	/

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

### 10.10 LTE Band 13 (10MHz Bandwidth)

Antenna	Power Reduction	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	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>															
Ant.1	State1&3	QPSK	Left Cheek	0	23230	782	1	Low	-0.18	0.452	23.41	24.50	1.285	0.581	/
	State1&3		Left Tilt	0	23230	782	1	Low	0.01	0.344	23.41	24.50	1.285	0.442	/
	State1&3		Right Cheek	0	23230	782	1	Low	0.01	0.529	23.41	24.50	1.285	<b>0.680</b>	30#
	State1&3		Right Tilt	0	23230	782	1	Low	0.09	0.449	23.41	24.50	1.285	0.577	/
	State1&3		Left Cheek	0	23230	782	25	High	-0.14	0.339	22.64	23.50	1.219	0.413	/
	State1&3		Left Tilt	0	23230	782	25	High	-0.10	0.266	22.64	23.50	1.219	0.324	/
	State1&3		Right Cheek	0	23230	782	25	High	0.15	0.354	22.64	23.50	1.219	0.432	/
	State1&3		Right Tilt	0	23230	782	25	High	-0.12	0.342	22.64	23.50	1.219	0.417	/
Ant.0	State1&3	QPSK	Left Cheek	0	23230	782	1	Mid	-0.05	0.089	23.68	24.50	1.208	0.108	/
	State1&3		Left Tilt	0	23230	782	1	Mid	0.15	0.054	23.68	24.50	1.208	0.065	/
	State1&3		Right Cheek	0	23230	782	1	Mid	0.17	0.062	23.68	24.50	1.208	0.075	/
	State1&3		Right Tilt	0	23230	782	1	Mid	-0.19	0.035	23.68	24.50	1.208	0.042	/
	State1&3		Left Cheek	0	23230	782	25	Mid	0.03	0.078	22.67	23.50	1.211	0.094	/
	State1&3		Left Tilt	0	23230	782	25	Mid	-0.11	0.041	22.67	23.50	1.211	0.050	/
	State1&3		Right Cheek	0	23230	782	25	Mid	0.13	0.049	22.67	23.50	1.211	0.059	/
	State1&3		Right Tilt	0	23230	782	25	Mid	-0.04	0.025	22.67	23.50	1.211	0.030	/
<b>Body-worn</b>															
Ant.1	State2&4	QPSK	Front Side	15	23230	782	1	Low	-0.02	0.109	23.41	24.50	1.285	0.140	/
	State2&4		Back Side	15	23230	782	1	Low	-0.15	0.159	23.41	24.50	1.285	0.204	/
	State2&4		Front Side	15	23230	782	25	High	-0.10	0.087	22.64	23.50	1.219	0.106	/
	State2&4		Back Side	15	23230	782	25	High	0.10	0.130	22.64	23.50	1.219	0.158	/
Ant.0	State2&4	QPSK	Front Side	15	23230	782	1	Mid	-0.04	0.124	23.68	24.50	1.208	0.150	/
	State2&4		Back Side	15	23230	782	1	Mid	-0.04	0.186	23.68	24.50	1.208	<b>0.225</b>	31#
	State2&4		Front Side	15	23230	782	25	Mid	0.03	0.096	22.67	23.50	1.211	0.116	/
	State2&4		Back Side	15	23230	782	25	Mid	-0.12	0.135	22.67	23.50	1.211	0.163	/
<b>Hotspot</b>															
Ant.1	State4	QPSK	Front Side	10	23095	707.5	1	Low	0.04	0.099	23.41	24.50	1.285	0.127	/
	State4		Back Side	10	23095	707.5	1	Low	0.07	0.165	23.41	24.50	1.285	0.212	/
	State4		Right Edge	10	23095	707.5	1	Low	-0.09	0.173	23.41	24.50	1.285	0.222	/
	State4		Top Edge	10	23095	707.5	1	Low	0.11	0.121	23.41	24.50	1.285	0.155	/
	State4		Front Side	10	23095	707.5	25	High	0.03	0.085	22.64	23.50	1.219	0.104	/
	State4		Back Side	10	23095	707.5	25	High	-0.18	0.132	22.64	23.50	1.219	0.161	/
	State4		Right Edge	10	23095	707.5	25	High	-0.14	0.139	22.64	23.50	1.219	0.169	/
	State4		Top Edge	10	23095	707.5	25	High	0.05	0.097	22.64	23.50	1.219	0.118	/
Ant.0	State4	QPSK	Front Side	10	23095	707.5	1	Mid	-0.01	0.112	23.68	24.50	1.208	0.135	/
	State4		Back Side	10	23095	707.5	1	Mid	-0.02	0.166	23.68	24.50	1.208	0.201	/

State4	Left Edge	10	23095	707.5	1	Mid	0.07	0.091	23.68	24.50	1.208	0.110	/
State4	Right Edge	10	23095	707.5	1	Mid	0.06	0.219	23.68	24.50	1.208	<b>0.265</b>	32#
State4	Bottom Edge	10	23095	707.5	1	Mid	0.05	0.150	23.68	24.50	1.208	0.181	/
State4	Front Side	10	23095	707.5	25	Mid	0.03	0.088	23.68	24.50	1.208	0.106	/
State4	Back Side	10	23095	707.5	25	Mid	-0.02	0.147	23.68	24.50	1.208	0.178	/
State4	Left Edge	10	23095	707.5	25	Mid	-0.10	0.075	23.68	24.50	1.208	0.091	/
State4	Right Edge	10	23095	707.5	25	Mid	0.07	0.161	23.68	24.50	1.208	0.194	/
State4	Bottom Edge	10	23095	707.5	25	Mid	0.13	0.121	23.68	24.50	1.208	0.146	/

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

### 10.11 LTE Band 66 (20MHz Bandwidth)

Antenna	Power Reduction	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	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>															
Ant.1	State1&3	QPSK	Left Cheek	0	132322	1745	1	Mid	-0.07	0.388	17.23	18.50	1.340	0.520	/
	State1&3		Left Tilt	0	132322	1745	1	Mid	-0.08	0.465	17.23	18.50	1.340	0.623	/
	State1&3		Right Cheek	0	132322	1745	1	Mid	-0.15	0.474	17.23	18.50	1.340	0.635	/
	State1&3		Right Tilt	0	132322	1745	1	Mid	-0.09	0.622	17.23	18.50	1.340	0.833	/
	State1&3		Left Cheek	0	132322	1745	50	Mid	-0.01	0.412	17.09	18.50	1.384	0.570	/
	State1&3		Left Tilt	0	132322	1745	50	Mid	0.01	0.531	17.09	18.50	1.384	0.735	/
	State1&3		Right Cheek	0	132322	1745	50	Mid	0.04	0.556	17.09	18.50	1.384	0.770	/
	State1&3		Right Tilt	0	132322	1745	50	Mid	-0.04	0.633	17.09	18.50	1.384	0.876	/
	State1&3		Right Tilt	0	132072	1720	1	Mid	-0.12	0.545	17.07	18.50	1.390	0.758	/
	State1&3		Right Tilt	0	132572	1770	1	Mid	-0.06	0.665	17.14	18.50	1.368	0.910	/
	State1&3		Right Tilt	0	132072	1720	50	Mid	-0.18	0.656	16.95	18.50	1.429	0.937	/
	State1&3		Right Tilt	0	132572	1770	50	Mid	0.01	0.717	17.05	18.50	1.396	<b>1.001</b>	33#
	State1&3		Right Tilt	0	132322	1745	100	Low	0.03	0.674	17.02	18.50	1.406	0.948	/
Ant.0	State1&3	QPSK	Left Cheek	0	132572	1770	1	Mid	-0.19	0.155	23.58	24.00	1.102	0.171	/
	State1&3		Left Tilt	0	132572	1770	1	Mid	-0.04	0.056	23.58	24.00	1.102	0.062	/
	State1&3		Right Cheek	0	132572	1770	1	Mid	-0.03	0.091	23.58	24.00	1.102	0.100	/
	State1&3		Right Tilt	0	132572	1770	1	Mid	-0.03	0.067	23.58	24.00	1.102	0.074	/
	State1&3		Left Cheek	0	132572	1770	50	Mid	-0.17	0.135	22.40	23.00	1.148	0.155	/
	State1&3		Left Tilt	0	132572	1770	50	Mid	0.10	0.052	22.40	23.00	1.148	0.060	/
	State1&3		Right Cheek	0	132572	1770	50	Mid	-0.09	0.077	22.40	23.00	1.148	0.088	/
	State1&3		Right Tilt	0	132572	1770	50	Mid	0.00	0.057	22.40	23.00	1.148	0.065	/
<b>Body-worn</b>															
Ant.1	State2	QPSK	Front Side	15	132322	1745	1	Mid	0.19	0.106	21.15	21.50	1.084	0.115	/
	State2		Back Side	15	132322	1745	1	Mid	0.00	0.174	21.15	21.50	1.084	0.189	/
	State2		Front Side	15	132322	1745	50	Low	0.02	0.112	20.97	21.50	1.130	0.127	/
	State2		Back Side	15	132322	1745	50	Low	0.16	0.188	20.97	21.50	1.130	0.212	/
	State4	QPSK	Front Side	15	132322	1745	1	Mid	0.00	0.075	19.67	20.00	1.079	0.081	/
	State4		Back Side	15	132322	1745	1	Mid	-0.02	0.123	19.67	20.00	1.079	0.133	/
	State4		Front Side	15	132322	1745	50	Low	-0.03	0.079	19.51	20.00	1.119	0.088	/
	State4		Back Side	15	132322	1745	50	Low	0.06	0.133	19.51	20.00	1.119	0.149	/
Ant.0	State2	QPSK	Front Side	15	132322	1745	1	Mid	0.09	0.168	22.66	23.00	1.081	0.182	/
	State2		Back Side	15	132322	1745	1	Mid	0.11	0.276	22.66	23.00	1.081	0.298	/
	State2		Front Side	15	132322	1745	50	Mid	-0.07	0.191	22.40	23.00	1.148	0.219	/
	State2		Back Side	15	132322	1745	50	Mid	0.16	0.345	22.40	23.00	1.148	<b>0.396</b>	34#
	State4	QPSK	Front Side	15	132322	1745	1	Mid	0.00	0.150	22.04	22.50	1.112	0.167	/
	State4		Back Side	15	132322	1745	1	Mid	0.04	0.246	22.04	22.50	1.112	0.274	/



	State4		Front Side	15	132322	1745	50	Mid	-0.19	0.170	21.85	22.50	1.161	0.197	/
	State4		Back Side	15	132322	1745	50	Mid	-0.15	0.274	21.85	22.50	1.161	0.318	/
<b>Hotspot</b>															
Ant.1	State4	QPSK	Front Side	10	132322	1745	1	Mid	0.09	0.164	19.67	20.00	1.079	0.177	/
	State4		Back Side	10	132322	1745	1	Mid	0.17	0.264	19.67	20.00	1.079	0.285	/
	State4		Right Edge	10	132322	1745	1	Mid	0.16	0.041	19.67	20.00	1.079	0.044	/
	State4		Top Edge	10	132322	1745	1	Mid	0.15	0.354	19.67	20.00	1.079	0.382	/
	State4		Front Side	10	132322	1745	50	Low	0.12	0.181	19.51	20.00	1.119	0.203	/
	State4		Back Side	10	132322	1745	50	Low	-0.07	0.300	19.51	20.00	1.119	0.336	/
	State4		Right Edge	10	132322	1745	50	Low	-0.17	0.044	19.51	20.00	1.119	0.049	/
	State4		Top Edge	10	132322	1745	50	Low	-0.13	0.389	19.51	20.00	1.119	0.435	/
Ant.0	State4	QPSK	Front Side	10	132322	1745	1	Mid	0.09	0.272	22.04	22.50	1.112	0.302	/
	State4		Back Side	10	132322	1745	1	Mid	0.14	0.418	22.04	22.50	1.112	0.465	/
	State4		Left Edge	10	132322	1745	1	Mid	0.16	0.107	22.04	22.50	1.112	0.119	/
	State4		Right Edge	10	132322	1745	1	Mid	0.17	0.084	22.04	22.50	1.112	0.093	/
	State4		Bottom Edge	10	132322	1745	1	Mid	0.05	0.702	22.04	22.50	1.112	0.781	/
	State4		Front Side	10	132322	1745	50	Mid	-0.05	0.319	21.85	22.50	1.161	0.370	/
	State4		Back Side	10	132322	1745	50	Mid	0.17	0.487	21.85	22.50	1.161	0.565	/
	State4		Left Edge	10	132322	1745	50	Mid	0.01	0.120	21.85	22.50	1.161	0.139	/
	State4		Right Edge	10	132322	1745	50	Mid	0.17	0.087	21.85	22.50	1.161	0.101	/
	State4		Bottom Edge	10	132322	1745	50	Mid	-0.04	0.704	21.85	22.50	1.161	0.817	/
	State4		Bottom Edge	10	132072	1720	1	Mid	0.09	0.629	21.94	22.50	1.138	0.716	/
	State4		Bottom Edge	10	132572	1770	1	Mid	-0.19	0.718	21.94	22.50	1.138	0.817	/
	State4		Bottom Edge	10	132072	1720	50	Mid	-0.14	0.693	21.82	22.50	1.169	0.810	/
	State4		Bottom Edge	10	132572	1770	50	Mid	0.09	0.720	21.83	22.50	1.167	<b>0.840</b>	35#
State4	Bottom Edge	10	132322	1745	100	Low	-0.15	0.713	21.84	22.50	1.164	0.830	/		
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

## 10.12 LTE Band 38 (20MHz Bandwidth)

Antenna	Power Reduction	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	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>															
Ant.1	State1&3	QPSK	Left Cheek	0	38000	2595	1	Mid	-0.17	0.087	20.60	20.80	1.047	0.091	/
	State1&3		Left Tilt	0	38000	2595	1	Mid	-0.18	0.106	20.60	20.80	1.047	0.111	/
	State1&3		Right Cheek	0	38000	2595	1	Mid	0.03	0.371	20.60	20.80	1.047	<b>0.388</b>	36#
	State1&3		Right Tilt	0	38000	2595	1	Mid	-0.15	0.270	20.60	20.80	1.047	0.283	/
	State1&3		Left Cheek	0	38000	2595	50	Mid	-0.13	0.075	20.31	20.80	1.119	0.084	/
	State1&3		Left Tilt	0	38000	2595	50	Mid	0.00	0.086	20.31	20.80	1.119	0.096	/
	State1&3		Right Cheek	0	38000	2595	50	Mid	0.15	0.258	20.31	20.80	1.119	0.289	/
	State1&3		Right Tilt	0	38000	2595	50	Mid	-0.16	0.232	20.31	20.80	1.119	0.260	/
Ant.0	State1&3	QPSK	Left Cheek	0	38000	2595	1	Mid	0.18	0.142	23.78	24.00	1.052	0.149	/
	State1&3		Left Tilt	0	38000	2595	1	Mid	-0.14	0.065	23.78	24.00	1.052	0.068	/
	State1&3		Right Cheek	0	38000	2595	1	Mid	-0.04	0.202	23.78	24.00	1.052	0.213	/
	State1&3		Right Tilt	0	38000	2595	1	Mid	-0.07	0.096	23.78	24.00	1.052	0.101	/
	State1&3		Left Cheek	0	38000	2595	50	Mid	0.08	0.114	22.48	23.00	1.127	0.128	/
	State1&3		Left Tilt	0	38000	2595	50	Mid	0.18	0.045	22.48	23.00	1.127	0.051	/
	State1&3		Right Cheek	0	38000	2595	50	Mid	0.00	0.184	22.48	23.00	1.127	0.207	/
	State1&3		Right Tilt	0	38000	2595	50	Mid	0.01	0.084	22.48	23.00	1.127	0.095	/
<b>Body-worn</b>															
Ant.1	State2	QPSK	Front Side	15	38000	2595	1	Mid	0.14	0.074	23.86	24.00	1.033	0.076	/
	State2		Back Side	15	38000	2595	1	Mid	-0.10	0.138	23.86	24.00	1.033	0.143	/
	State2		Front Side	15	38000	2595	50	Mid	-0.15	0.056	22.57	23.00	1.104	0.062	/
	State2		Back Side	15	38000	2595	50	Mid	-0.12	0.113	22.57	23.00	1.104	0.125	/
	State4	QPSK	Front Side	15	38000	2595	1	Mid	0.13	0.059	22.38	23.00	1.153	0.068	/
	State4		Back Side	15	38000	2595	1	Mid	-0.02	0.110	22.38	23.00	1.153	0.127	/
	State4		Front Side	15	38000	2595	50	Mid	0.00	0.056	22.12	23.00	1.225	0.069	/
	State4		Back Side	15	38000	2595	50	Mid	-0.02	0.113	22.12	23.00	1.225	0.138	/
Ant.0	State2&4	QPSK	Front Side	15	38000	2595	1	Mid	0.18	0.144	23.78	24.00	1.052	0.151	/
	State2&4		Back Side	15	38000	2595	1	Mid	0.03	0.155	23.78	24.00	1.052	<b>0.163</b>	37#
	State2&4		Front Side	15	38000	2595	50	Mid	0.12	0.141	22.48	23.00	1.127	0.159	/
	State2&4		Back Side	15	38000	2595	50	Mid	0.14	0.134	22.48	23.00	1.127	0.151	/
<b>Hotspot</b>															
Ant.1	State4	QPSK	Front Side	10	38000	2595	1	Mid	0.12	0.095	22.38	23.00	1.153	0.110	/
	State4		Back Side	10	38000	2595	1	Mid	-0.01	0.179	22.38	23.00	1.153	0.206	/
	State4		Right Edge	10	38000	2595	1	Mid	0.17	0.174	22.38	23.00	1.153	0.201	/
	State4		Top Edge	10	38000	2595	1	Mid	-0.10	0.083	22.38	23.00	1.153	0.096	/
	State4		Front Side	10	38000	2595	50	Mid	0.08	0.127	22.12	23.00	1.225	0.156	/
	State4		Back Side	10	38000	2595	50	Mid	-0.18	0.198	22.12	23.00	1.225	0.243	/

	State4		Right Edge	10	38000	2595	50	Mid	-0.01	0.204	22.12	23.00	1.225	0.250	/
	State4		Top Edge	10	38000	2595	50	Mid	-0.07	0.101	22.12	23.00	1.225	0.124	/
Ant.0	State4	QPSK	Front Side	10	38000	2595	1	Mid	0.15	0.288	23.78	24.00	1.052	0.303	/
	State4		Back Side	10	38000	2595	1	Mid	0.06	0.315	23.78	24.00	1.052	<b>0.331</b>	38#
	State4		Left Edge	10	38000	2595	1	Mid	0.01	0.211	23.78	24.00	1.052	0.222	/
	State4		Right Edge	10	38000	2595	1	Mid	0.10	0.035	23.78	24.00	1.052	0.037	/
	State4		Bottom Edge	10	38000	2595	1	Mid	-0.14	0.225	23.78	24.00	1.052	0.237	/
	State4		Front Side	10	38000	2595	50	Mid	0.13	0.253	22.48	23.00	1.127	0.285	/
	State4		Back Side	10	38000	2595	50	Mid	0.04	0.292	22.48	23.00	1.127	0.329	/
	State4		Left Edge	10	38000	2595	50	Mid	-0.15	0.179	22.48	23.00	1.127	0.202	/
	State4		Right Edge	10	38000	2595	50	Mid	-0.14	0.024	22.48	23.00	1.127	0.027	/
	State4		Bottom Edge	10	38000	2595	50	Mid	0.12	0.179	22.48	23.00	1.127	0.202	/

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

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

Antenna	Power Reduction	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	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>															
Ant.1	State1&3	QPSK	Left Cheek	0	40765	2607.5	1	Mid	0.04	0.082	20.60	20.80	1.047	0.086	/
	State1&3		Left Tilt	0	40765	2607.5	1	Mid	0.13	0.094	20.60	20.80	1.047	0.098	/
	State1&3		Right Cheek	0	40765	2607.5	1	Mid	0.15	0.285	20.60	20.80	1.047	0.298	/
	State1&3		Right Tilt	0	40765	2607.5	1	Mid	-0.04	0.242	20.60	20.80	1.047	0.253	/
	State1&3		Left Cheek	0	40765	2607.5	50	Mid	0.06	0.087	20.31	20.80	1.119	0.097	/
	State1&3		Left Tilt	0	40765	2607.5	50	Mid	0.05	0.098	20.31	20.80	1.119	0.110	/
	State1&3		Right Cheek	0	40765	2607.5	50	Mid	0.02	0.364	20.31	20.80	1.119	<b>0.407</b>	39#
	State1&3		Right Tilt	0	40765	2607.5	50	Mid	0.16	0.265	20.31	20.80	1.119	0.297	/
Ant.0	State1&3	QPSK	Left Cheek	0	40765	2607.5	1	Mid	0.09	0.105	23.99	24.00	1.002	0.105	/
	State1&3		Left Tilt	0	40765	2607.5	1	Mid	0.03	0.039	23.99	24.00	1.002	0.039	/
	State1&3		Right Cheek	0	40765	2607.5	1	Mid	-0.18	0.185	23.99	24.00	1.002	0.185	/
	State1&3		Right Tilt	0	40765	2607.5	1	Mid	0.10	0.077	23.99	24.00	1.002	0.077	/
	State1&3		Left Cheek	0	40765	2607.5	50	Mid	0.12	0.096	22.64	23.00	1.086	0.104	/
	State1&3		Left Tilt	0	40765	2607.5	50	Mid	-0.02	0.032	22.64	23.00	1.086	0.035	/
	State1&3		Right Cheek	0	40765	2607.5	50	Mid	0.09	0.159	22.64	23.00	1.086	0.173	/
	State1&3		Right Tilt	0	40765	2607.5	50	Mid	0.14	0.063	22.64	23.00	1.086	0.068	/
<b>Body-worn</b>															
Ant.1	State2	QPSK	Front Side	15	40765	2607.5	1	Mid	-0.08	0.079	23.87	24.00	1.030	0.081	/
	State2		Back Side	15	40765	2607.5	1	Mid	-0.09	0.120	23.87	24.00	1.030	0.124	/
	State2		Front Side	15	40765	2607.5	50	Mid	-0.10	0.067	22.74	23.00	1.062	0.071	/
	State2		Back Side	15	40765	2607.5	50	Mid	-0.03	0.105	22.74	23.00	1.062	0.112	/
	State4	QPSK	Front Side	15	40765	2607.5	1	Mid	-0.16	0.063	22.65	23.00	1.084	0.068	/
	State4		Back Side	15	40765	2607.5	1	Mid	0.11	0.095	22.65	23.00	1.084	0.103	/
	State4		Front Side	15	40765	2607.5	50	Mid	0.12	0.067	22.36	23.00	1.159	0.078	/
	State4		Back Side	15	40765	2607.5	50	Mid	0.16	0.105	22.36	23.00	1.159	0.122	/
Ant.0	State2&4	QPSK	Front Side	15	40765	2607.5	1	Mid	0.06	0.146	23.99	24.00	1.002	<b>0.146</b>	40#
	State2&4		Back Side	15	40765	2607.5	1	Mid	0.02	0.141	23.99	24.00	1.002	0.141	/
	State2&4		Front Side	15	40765	2607.5	50	Mid	-0.01	0.119	22.64	23.00	1.086	0.129	/
	State2&4		Back Side	15	40765	2607.5	50	Mid	-0.07	0.121	22.64	23.00	1.086	0.131	/
<b>Hotspot</b>															
Ant.1	State4	QPSK	Front Side	10	40765	2607.5	1	Mid	-0.09	0.118	22.65	23.00	1.084	0.128	/
	State4		Back Side	10	40765	2607.5	1	Mid	0.06	0.175	22.65	23.00	1.084	0.190	/
	State4		Right Edge	10	40765	2607.5	1	Mid	-0.19	0.161	22.65	23.00	1.084	0.175	/
	State4		Top Edge	10	40765	2607.5	1	Mid	0.10	0.076	22.65	23.00	1.084	0.082	/
	State4		Front Side	10	40765	2607.5	50	Mid	-0.15	0.115	22.36	23.00	1.159	0.133	/
	State4		Back Side	10	40765	2607.5	50	Mid	-0.12	0.245	22.36	23.00	1.159	0.284	/

	State4		Right Edge	10	40765	2607.5	50	Mid	0.15	0.200	22.36	23.00	1.159	0.232	/
	State4		Top Edge	10	40765	2607.5	50	Mid	-0.07	0.086	22.36	23.00	1.159	0.100	/
Ant.0	State4	QPSK	Front Side	10	40765	2607.5	1	Mid	0.15	0.293	23.99	24.00	1.002	0.294	/
	State4		Back Side	10	40765	2607.5	1	Mid	-0.17	0.295	23.99	24.00	1.002	<b>0.296</b>	41#
	State4		Left Edge	10	40765	2607.5	1	Mid	-0.18	0.194	23.99	24.00	1.002	0.194	/
	State4		Right Edge	10	40765	2607.5	1	Mid	0.18	0.055	23.99	24.00	1.002	0.055	/
	State4		Bottom Edge	10	40765	2607.5	1	Mid	0.16	0.207	23.99	24.00	1.002	0.207	/
	State4		Front Side	10	40765	2607.5	50	Mid	-0.08	0.222	22.64	23.00	1.086	0.241	/
	State4		Back Side	10	40765	2607.5	50	Mid	0.06	0.266	22.64	23.00	1.086	0.289	/
	State4		Left Edge	10	40765	2607.5	50	Mid	-0.12	0.143	22.64	23.00	1.086	0.155	/
	State4		Right Edge	10	40765	2607.5	50	Mid	0.09	0.042	22.64	23.00	1.086	0.046	/
	State4		Bottom Edge	10	40765	2607.5	50	Mid	-0.13	0.198	22.64	23.00	1.086	0.215	/

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

### 10.14 WIFI 2.4GHZ

Antenna	Power Reduction	Mode	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 (%)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.	
<b>Head</b>																
Ant.3	Level1&2	802.11 b	Left Cheek	0	11	2462	0.06	0.341	13.55	14.50	1.245	99.70	1.003	0.426	/	
	Level1&2		Left Tilt	0	11	2462	-0.13	0.191	13.55	14.50	1.245	99.70	1.003	0.239	/	
	Level1&2		Right Cheek	0	11	2462	0.01	0.141	13.55	14.50	1.245	99.70	1.003	0.176	/	
	Level1&2		Right Tilt	0	11	2462	-0.15	0.172	13.55	14.50	1.245	99.70	1.003	0.215	/	
	Level1	802.11 g	Left Cheek	0	6	2437	-0.09	0.802	16.16	17.50	1.361	99.30	1.007	1.099	/	
	Level1		Left Tilt	0	6	2437	-0.02	0.446	16.16	17.50	1.361	99.30	1.007	0.611	/	
	Level1		Right Cheek	0	6	2437	-0.1	0.323	16.16	17.50	1.361	99.30	1.007	0.443	/	
	Level1		Right Tilt	0	6	2437	0.01	0.416	16.16	17.50	1.361	99.30	1.007	0.570	/	
	Level1	802.11 g	Left Cheek	0	1	2412	-0.08	0.861	15.70	17.00	1.349	99.30	1.007	<b>1.170</b>	42#	
	Level1		Left Cheek	0	11	2462	0	0.723	15.07	17.00	1.560	99.30	1.007	1.136	/	
	Level2		802.11 g	Left Cheek	0	11	2462	0.12	0.432	14.02	15.00	1.253	99.30	1.007	0.545	/
	Level2			Left Tilt	0	11	2462	0.13	0.233	14.02	15.00	1.253	99.30	1.007	0.294	/
	Level2	802.11 g	Right Cheek	0	11	2462	0.03	0.176	14.02	15.00	1.253	99.30	1.007	0.222	/	
	Level2		Right Tilt	0	11	2462	0.1	0.226	14.02	15.00	1.253	99.30	1.007	0.285	/	
	<b>Body-worn</b>															
	Ant.3	Leve3&4	802.11 b	Front Side	15	11	2462	0	0.048	13.55	14.50	1.245	99.70	1.003	0.060	/
Leve3&4		Back Side		15	11	2462	0.18	0.062	13.55	14.50	1.245	99.70	1.003	0.077	/	
Leve3		802.11 g	Front Side	15	6	2437	-0.08	0.105	17.19	19.00	1.517	99.30	1.007	0.160	/	
Leve3			Back Side	15	6	2437	0.03	0.139	17.19	19.00	1.517	99.30	1.007	<b>0.212</b>	43#	
Leve4		802.11 g	Front Side	15	6	2437	0.07	0.071	16.16	17.00	1.213	99.30	1.007	0.087	/	
Leve4			Back Side	15	6	2437	-0.05	0.095	16.16	17.00	1.213	99.30	1.007	0.116	/	
<b>Hotspot</b>																
Ant.3	Leve4	802.11 b	Front Side	10	11	2462	0.01	0.084	13.55	14.50	1.245	99.70	1.003	0.105	/	
	Leve4		Back Side	10	11	2462	0.11	0.150	13.55	14.50	1.245	99.70	1.003	0.187	/	
	Leve4		Left Edge	10	11	2462	-0.08	0.077	13.55	14.50	1.245	99.70	1.003	0.096	/	
	Leve4		Top Edge	10	11	2462	-0.11	0.093	13.55	14.50	1.245	99.70	1.003	0.116	/	
Ant.3	Leve4	802.11 g	Front Side	10	6	2437	0.04	0.223	16.16	17.00	1.213	99.30	1.007	0.272	/	
	Leve4		Back Side	10	6	2437	0.03	0.363	16.16	17.00	1.213	99.30	1.007	<b>0.443</b>	44#	
	Leve4		Left Edge	10	6	2437	0.02	0.155	16.16	17.00	1.213	99.30	1.007	0.189	/	
	Leve4		Top Edge	10	6	2437	0.01	0.271	16.16	17.00	1.213	99.30	1.007	0.331	/	
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

### 10.15 WIFI 5GHZ

Antenna	Band	Power Reduction	Mode	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 (%)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>																
Ant.3	5.3G	Level1	802.11n(HT40)	Left Cheek	0	54	5270	0.02	0.740	14.76	16.50	1.493	92.75	1.078	<b>1.191</b>	45#
		Level1		Left Tilt	0	54	5270	0.11	0.327	14.76	16.50	1.493	92.75	1.078	0.526	/
		Level1		Right Cheek	0	54	5270	-0.17	0.171	14.76	16.50	1.493	92.75	1.078	0.275	/
		Level1		Right Tilt	0	54	5270	-0.17	0.113	14.76	16.50	1.493	92.75	1.078	0.182	/
		Level1	Left Cheek	0	62	5310	-0.12	0.432	11.47	13.00	1.422	92.75	1.078	0.662	/	
		Level2	802.11ac (VHT80)	Left Cheek	0	58	5290	0	0.285	10.75	12.50	1.496	85.10	1.175	0.501	/
		Level2		Left Tilt	0	58	5290	-0.04	0.092	10.75	12.50	1.496	85.10	1.175	0.162	/
		Level2		Right Cheek	0	58	5290	-0.15	0.083	10.75	12.50	1.496	85.10	1.175	0.146	/
		Level2		Right Tilt	0	58	5290	0.05	0.050	10.75	12.50	1.496	85.10	1.175	0.088	/
		Ant.3	5.6G	Leve1	802.11n(HT40)	Left Cheek	0	118	5590	0.08	0.952	16.11	16.50	1.094	92.75	1.078
Leve1	Left Tilt			0		118	5590	-0.14	0.388	16.11	16.50	1.094	92.75	1.078	0.458	/
Leve1	Right Cheek			0		118	5590	-0.05	0.151	16.11	16.50	1.094	92.75	1.078	0.178	/
Leve1	Right Tilt			0		118	5590	-0.02	0.130	16.11	16.50	1.094	92.75	1.078	0.153	/
Leve1	Left Cheek			0	102	5510	0.08	0.148	8.14	10.00	1.535	92.75	1.078	0.245	/	
Leve1	Left Cheek			0	134	5670	0.16	0.823	15.77	16.50	1.183	92.75	1.078	1.050	/	
Leve2	802.11ac (VHT80)			Left Cheek	0	122	5610	0.01	0.255	10.73	12.50	1.503	85.10	1.175	0.450	/
Leve2				Left Tilt	0	122	5610	0.08	0.085	10.73	12.50	1.503	85.10	1.175	0.150	/
Leve2				Right Cheek	0	122	5610	0.19	0.047	10.73	12.50	1.503	85.10	1.175	0.083	/
Leve2				Right Tilt	0	122	5610	-0.17	0.043	10.73	12.50	1.503	85.10	1.175	0.076	/
Ant.3	5.8G	Level1	802.11n(HT40)	Left Cheek	0	151	5755	0.08	0.703	15.17	16.50	1.358	92.75	1.078	<b>1.029</b>	47#
		Level1		Left Tilt	0	151	5755	-0.14	0.404	15.17	16.50	1.358	92.75	1.078	0.591	/
		Level1		Right Cheek	0	151	5755	0.19	0.145	15.17	16.50	1.358	92.75	1.078	0.212	/
		Level1		Right Tilt	0	151	5755	-0.05	0.170	15.17	16.50	1.358	92.75	1.078	0.249	/
		Level1	Left Cheek	0	159	5795	0.06	0.594	15.04	16.50	1.400	92.75	1.078	0.896	/	
		Level2	802.11ac (VHT80)	Left Cheek	0	155	5775	0	0.202	10.93	12.50	1.435	85.10	1.175	0.341	/
		Level2		Left Tilt	0	155	5775	-0.04	0.083	10.93	12.50	1.435	85.10	1.175	0.140	/
		Level2		Right Cheek	0	155	5775	-0.03	0.041	10.93	12.50	1.435	85.10	1.175	0.069	/
		Level2		Right Tilt	0	155	5775	0.06	0.026	10.93	12.50	1.435	85.10	1.175	0.044	/
		<b>Body-worn</b>														
Ant.3	5.3G	Leve3	802.11n(HT40)	Front Side	15	54	5270	0.01	0.134	14.76	16.50	1.493	92.75	1.078	0.216	/
		Leve3		Back Side	15	54	5270	-0.07	0.328	14.76	16.50	1.493	92.75	1.078	<b>0.528</b>	48#
		Leve4	802.11ac (VHT80)	Front Side	15	58	5290	-0.17	0.054	11.43	13.00	1.435	85.10	1.175	0.091	/
		Leve4		Back Side	15	58	5290	-0.1	0.156	11.43	13.00	1.435	85.10	1.175	0.263	/
Ant.3	5.6G	Leve3	802.11a	Front Side	15	116	5580	-0.09	0.268	17.70	18.50	1.202	96.50	1.036	0.334	/
		Leve3		Back Side	15	116	5580	0.1	0.685	17.70	18.50	1.202	96.50	1.036	<b>0.853</b>	49#
		Leve3		Back Side	15	100	5500	0.18	0.128	10.06	12.00	1.563	96.50	1.036	0.207	/

		Leve3		Back Side	15	140	5700	0.13	0.132	10.44	12.00	1.432	96.50	1.036	0.196	
		Leve4	802.11ac	Front Side	15	122	5610	-0.1	0.050	11.78	13.00	1.324	85.10	1.175	0.078	/
		Leve4	(VHT80)	Back Side	15	122	5610	-0.08	0.171	11.78	13.00	1.324	85.10	1.175	0.266	/
Ant.3	5.8G	Leve3	802.11a	Front Side	15	149	5745	-0.17	0.258	17.73	19.00	1.340	96.50	1.036	0.358	/
		Leve3		Back Side	15	149	5745	0.03	0.601	17.73	19.00	1.340	96.50	1.036	<b>0.834</b>	50#
		Leve3		Back Side	15	157	5785	0.15	0.556	17.65	19.00	1.365	96.50	1.036	0.786	
		Leve3		Back Side	15	165	5825	-0.07	0.488	17.02	19.00	1.578	96.50	1.036	0.798	
		Leve4	802.11ac(VHT80)	Front Side	15	155	5775	-0.03	0.056	11.95	13.00	1.274	85.10	1.175	0.084	/
		Leve4		Back Side	15	155	5775	-0.1	0.172	11.95	13.00	1.274	85.10	1.175	0.257	/
<b>Hotspot</b>																
Ant.3	5.2G	Leve4	802.11ac(HT40)	Front Side	10	46	5230	0	0.089	10.70	12.50	1.514	92.75	1.078	0.145	/
		Leve4		Back Side	10	46	5230	0.13	0.300	10.70	12.50	1.514	92.75	1.078	0.490	/
		Leve4		Left Edge	10	46	5230	0.03	0.404	10.70	12.50	1.514	92.75	1.078	<b>0.659</b>	51#
		Leve4		Top Edge	10	46	5230	-0.16	0.067	10.70	12.50	1.514	92.75	1.078	0.109	/
Ant.3	5.8G	Leve4	802.11ac(VHT80)	Front Side	10	155	5775	0.02	0.074	11.95	13.00	1.274	85.10	1.175	0.111	/
		Leve4		Back Side	10	155	5775	-0.06	0.314	11.95	13.00	1.274	85.10	1.175	0.470	/
		Leve4		Left Edge	10	155	5775	0.06	0.408	11.95	13.00	1.274	85.10	1.175	<b>0.611</b>	52#
		Leve4		Top Edge	10	155	5775	0.03	0.075	11.95	13.00	1.274	85.10	1.175	0.112	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																



Antenna	Band	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	Duty Cycle (%)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.		
<b>Specific</b>																		
Ant.3	5.3G	Leve3	802.11n(HT40)	Front Side	0	54	5270	-0.12	0.311	14.76	16.50	1.493	92.75	1.078	0.501	/		
				Back Side	0	54	5270	-0.05	0.723	14.76	16.50	1.493	92.75	1.078	1.164	/		
				Left Edge	0	54	5270	0.15	1.45	14.76	16.50	1.493	92.75	1.078	<b>2.334</b>	53#		
				Top Edge	0	54	5270	0.06	0.123	14.76	16.50	1.493	92.75	1.078	0.198	/		
				Left Edge	0	62	5310	0.03	0.694	11.47	13.00	1.422	92.75	1.078	1.064	/		
		Leve4	802.11ac(VHT80)	Front Side	0	58	5290	-0.01	0.134	11.43	13.00	1.435	85.10	1.175	0.226	/		
				Back Side	0	58	5290	0.05	0.295	11.43	13.00	1.435	85.10	1.175	0.497	/		
				Left Edge	0	58	5290	-0.05	0.533	11.43	13.00	1.435	85.10	1.175	0.899	/		
				Top Edge	0	58	5290	-0.04	0.026	11.43	13.00	1.435	85.10	1.175	0.044	/		
		Ant.3	5.6G	Leve3	802.11a	Front Side	0	116	5580	-0.06	0.822	17.70	18.50	1.202	96.50	1.036	1.024	/
						Back Side	0	116	5580	0.07	1.550	17.70	18.50	1.202	96.50	1.036	1.930	/
						Left Edge	0	116	5580	0.07	2.210	17.70	18.50	1.202	96.50	1.036	<b>2.752</b>	54#
Top Edge	0					116	5580	-0.14	0.109	17.70	18.50	1.202	96.50	1.036	0.136	/		
Left Edge	0					100	5500	0.03	0.422	10.06	12.00	1.563	96.50	1.036	0.683	/		
Leve3	802.11ac(VHT80)			Left Edge	0	140	5700	0.01	0.319	10.44	12.00	1.432	96.50	1.036	0.473	/		
				Front Side	0	122	5610	0.13	0.189	11.95	13.00	1.274	85.10	1.175	0.283	/		
				Back Side	0	122	5610	0.15	0.386	11.95	13.00	1.274	85.10	1.175	0.578	/		
				Left Edge	0	122	5610	-0.08	0.497	11.95	13.00	1.274	85.10	1.175	0.744	/		
Leve4	Top Edge			0	122	5610	-0.16	0.037	11.95	13.00	1.274	85.10	1.175	0.055	/			
Note: Refer to ANNEX C for the detailed test data for each test configuration.																		

## 10.16 Bluetooth

Antenna	Mode	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 (%)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>														
Ant.3	DH5	Left Cheek	0	0	2402	-0.17	0.098	9.76	10.00	1.057	76.88	1.301	<b>0.135</b>	55#
		Left Tilt	0	0	2402	0.03	0.048	9.76	10.00	1.057	76.88	1.301	0.066	/
		Right Cheek	0	0	2402	0.12	0.023	9.76	10.00	1.057	76.88	1.301	0.032	/
		Right Tilt	0	0	2402	-0.09	0.012	9.76	10.00	1.057	76.88	1.301	0.017	
<b>Body-worn</b>														
Ant.3	DH5	Front Side	15	0	2402	0.11	0.011	9.76	10.00	1.057	76.88	1.301	0.015	/
		Back Side	15	0	2402	0.19	0.016	9.76	10.00	1.057	76.88	1.301	<b>0.022</b>	56#
<b>Hotspot</b>														
Ant.3	DH5	Front Side	10	0	2402	0.02	0.018	9.76	10.00	1.057	76.88	1.301	0.025	/
		Back Side	10	0	2402	0.07	0.038	9.76	10.00	1.057	76.88	1.301	<b>0.052</b>	57#
		Left Edge	10	0	2402	0.06	0.011	9.76	10.00	1.057	76.88	1.301	0.015	/
		Top Edge	10	0	2402	0.05	0.013	9.76	10.00	1.057	76.88	1.301	0.018	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

### 10.17 NFC SAR

1. According to the 2022.04 TCBC Workshop meeting, the power threshold is  $\leq 100\text{MHz}$ , refer to P6s.

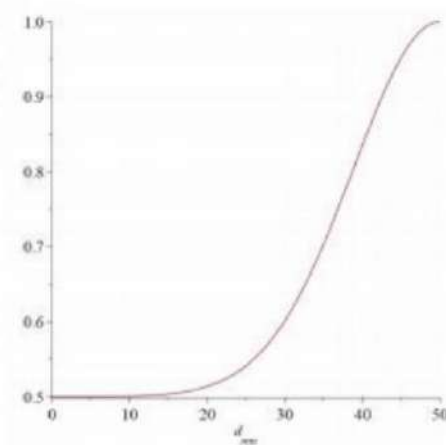
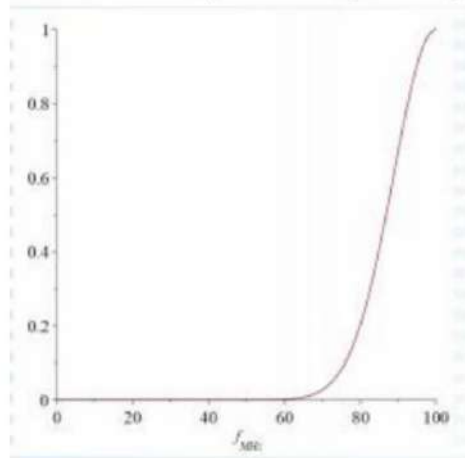
$$P_{7X}(d_{mm}, f_{MHz}) := \begin{cases} P_{6S}(d_{mm}, f_{MHz}) & f_{MHz} \leq 100 \\ P_{6to7}(d_{mm}, f_{MHz}) & 100 < f_{MHz} \leq 300 \\ P_7(d_{mm}, f_{MHz}) & 300 < f_{MHz} \end{cases}$$

2. For portable products, when using a distance of  $\leq 50\text{mm}$ , such as mobile phone NFC, P6s is calculated with the following formula calculate.

$$S_f(f_{MHz}) \cdot P_{431a}(d_{mm}, f_{MHz}) + (1 - S_f(f_{MHz})) \cdot S_d(d_{mm}) \cdot P_{431b1}(50., 100.) \cdot \left( 1. + \log_{10} \left( \frac{100.}{f_{MHz}} \right) \right) \quad d_{mm} \leq 50 \text{ and } f_{MHz} \leq 100$$

3. The smoothing functions Sf and Sd in P6s calculate the limits based on KDB 447498 V06 and are calculated as follows.

$$S_f(f_{MHz}) := \exp \left( -10 \frac{(f_{MHz} - f_{max})^2}{\Delta f^2} \right) \quad S_d(d_{mm}) := 0.5 + 0.5 \cdot \exp \left( -10 \frac{(d_{mm} - d_{max})^2}{\Delta d^2} \right)$$



d≤50mm			
f Max(MHz)	100	d Max(mm)	50
f MHz	13.56	d(mm)	5
Δf(MHz)	100	Δd	50
S <sub>f</sub> (f <sub>MHz</sub> )	0.000568861	S <sub>d</sub> (d <sub>mm</sub> )	0.50015177
P6s(mW)	443.1257378		
Note: SAR testing is required when the distance is 5mm and the power is greater than 443.13mW.			

4. According to the ANSI C63.10 clause 11.12.2.2:

The value of maximum peak output power is according to the method described in ANSI C63.10 clause 11.12.2.2 General procedure for conducted measurements in restricted bands:

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the ERP level (see guidance on determining the applicable antenna gain)
- c) Add the appropriate maximum ground reflection factor to the ERP level (6 dB for frequencies  $\leq$  30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies  $>$  1000 MHz).
- d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the ERP of all chains in linear terms (e.g., Watts, mW).
- e) Convert the resultant ERP level to an equivalent electric field strength using the following relationship:  $E = ERP - 20\log D + 104.8$

where:

E = electric field strength in dB $\mu$ V/m,

ERP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

Mode	f (MHz)	Max. E-Field strength (dB $\mu$ V/m)	D (m)	Ground reflection factor (dB)	ERP (dBm)
NFC (13.56MHz)	13.56	57.44	3	6	-31.82

Note:

1. Add the appropriate maximum ground reflection factor to the ERP level (6 dB for frequencies  $\leq$  30 MHz).
2. ERP =  $57.44 + 20 \cdot \log(3) - 104.8 + 6 = -31.82$  (dBm)

According to the FCC KDB 447498 D04

Estimated SAR: SAR test =  $1.6 \cdot P_{ant} / P_{th}$  [W/kg]

Estimated SAR	1.6 · P <sub>ant</sub> / P <sub>th</sub> [W/kg]		
P <sub>meas.</sub> (dBm)	-31.82	P <sub>meas.</sub> (mW)	0.00066
P <sub>th.</sub> (mW)	443.13		
NFC Estimated 1g SAR [W/kg]	<0.001		

## 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
835	GSM850	Head	Right Cheek	0.802	Yes	0.788	1.02
1900	GSM1900	Head	Right Tilt	0.830	Yes	0.815	1.02
1900	WCDMA Band 2	Head	Right Tilt	1.020	Yes	0.989	1.03
1750	WCDMA Band 4	Head	Right Tilt	0.916	Yes	0.905	1.01
2450	802.11g	Head	Left Cheek	0.861	Yes	0.832	1.03
5600	802.11n	Head	Left Cheek	0.952	Yes	0.930	1.02
5600	802.11a	Body	Left Edge	2.210	Yes	2.090	1.06

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.

## 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	Body-Worm	Hotspot	Specific
1	WWAN + WLAN 2.4GHz+BT	Yes	Yes	Yes	Yes
2	WWAN + WLAN 5GHz+BT	Yes	Yes	Yes	Yes

Note:

1. WWAN antennas can switch automatically, the standards supported by WWAN are(GSM/GPRS/EDGE/WCDMA/LTE).
2. The maximum SAR summation is calculated based on the same configuration and test position.
3. The simultaneous transmission combinations of multiple antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations is shown in this report.

## 12.2 Sum SAR of Simultaneous Transmission

### 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+4)	Sum SAR (1+3+4)
			WWAN	2.4GWIFI(MAX)	Max.5GWIFI(MAX)	BT		
GSM850	ANT1	Left Cheek	0.752	0.543	0.501	0.135	1.430	1.388
		Left Tilt	0.726	0.293	0.162	0.066	1.085	0.954
		Right Cheek	1.05	0.221	0.146	0.032	1.303	1.228
		Right Tilt	0.864	0.284	0.088	0.017	1.165	0.969
GSM850	ANT0	Left Cheek	0.183	0.543	0.501	0.135	0.861	0.819
		Left Tilt	0.082	0.293	0.162	0.066	0.441	0.310
		Right Cheek	0.144	0.221	0.146	0.032	0.397	0.322
		Right Tilt	0.061	0.284	0.088	0.017	0.362	0.166
GSM1900	ANT1	Left Cheek	0.485	0.543	0.501	0.135	1.163	1.121
		Left Tilt	0.611	0.293	0.162	0.066	0.970	0.839
		Right Cheek	0.774	0.221	0.146	0.032	1.027	0.952
		Right Tilt	1.091	0.284	0.088	0.017	1.392	1.196
GSM1900	ANT0	Left Cheek	0.064	0.543	0.501	0.135	0.742	0.700
		Left Tilt	0.035	0.293	0.162	0.066	0.394	0.263
		Right Cheek	0.057	0.221	0.146	0.032	0.310	0.235
		Right Tilt	0.023	0.284	0.088	0.017	0.324	0.128
WCDMA B2	ANT1	Left Cheek	0.623	0.543	0.501	0.135	1.301	1.259
		Left Tilt	0.784	0.293	0.162	0.066	1.143	1.012
		Right Cheek	0.795	0.221	0.146	0.032	1.048	0.973
		Right Tilt	1.155	0.284	0.088	0.017	<b>1.456</b>	1.260
WCDMA B2	ANT0	Left Cheek	0.118	0.543	0.501	0.135	0.796	0.754
		Left Tilt	0.133	0.293	0.162	0.066	0.492	0.361
		Right Cheek	0.095	0.221	0.146	0.032	0.348	0.273
		Right Tilt	0.095	0.284	0.088	0.017	0.396	0.200
WCDMA B4	ANT1	Left Cheek	0.538	0.543	0.501	0.135	1.216	1.174
		Left Tilt	0.597	0.293	0.162	0.066	0.956	0.825
		Right Cheek	0.658	0.221	0.146	0.032	0.911	0.836
		Right Tilt	0.988	0.284	0.088	0.017	1.289	1.093
WCDMA B4	ANT0	Left Cheek	0.08	0.543	0.501	0.135	0.758	0.716
		Left Tilt	0.137	0.293	0.162	0.066	0.496	0.365
		Right Cheek	0.056	0.221	0.146	0.032	0.309	0.234
		Right Tilt	0.055	0.284	0.088	0.017	0.356	0.160
WCDMA B5	ANT1	Left Cheek	0.559	0.543	0.501	0.135	1.237	1.195
		Left Tilt	0.502	0.293	0.162	0.066	0.861	0.730
		Right Cheek	0.792	0.221	0.146	0.032	1.045	0.970

		Right Tilt	0.588	0.284	0.088	0.017	0.889	0.693
WCDMA B5	ANT0	Left Cheek	0.191	0.543	0.501	0.135	0.869	0.827
		Left Tilt	0.145	0.293	0.162	0.066	0.504	0.373
		Right Cheek	0.185	0.221	0.146	0.032	0.438	0.363
		Right Tilt	0.094	0.284	0.088	0.017	0.395	0.199
LTE B2	ANT1	Left Cheek	0.486	0.543	0.501	0.135	1.164	1.122
		Left Tilt	0.673	0.293	0.162	0.066	1.032	0.901
		Right Cheek	0.708	0.221	0.146	0.032	0.961	0.886
		Right Tilt	0.855	0.284	0.088	0.017	1.156	0.960
LTE B2	ANT0	Left Cheek	0.128	0.543	0.501	0.135	0.806	0.764
		Left Tilt	0.051	0.293	0.162	0.066	0.410	0.279
		Right Cheek	0.115	0.221	0.146	0.032	0.368	0.293
		Right Tilt	0.055	0.284	0.088	0.017	0.356	0.160
LTE B4	ANT1	Left Cheek	0.626	0.543	0.501	0.135	1.304	1.262
		Left Tilt	0.79	0.293	0.162	0.066	1.149	1.018
		Right Cheek	0.816	0.221	0.146	0.032	1.069	0.994
		Right Tilt	1.015	0.284	0.088	0.017	1.316	1.120
LTE B4	ANT0	Left Cheek	0.125	0.543	0.501	0.135	0.803	0.761
		Left Tilt	0.05	0.293	0.162	0.066	0.409	0.278
		Right Cheek	0.06	0.221	0.146	0.032	0.313	0.238
		Right Tilt	0.049	0.284	0.088	0.017	0.350	0.154
LTE B5	ANT1	Left Cheek	0.75	0.543	0.501	0.135	1.428	1.386
		Left Tilt	0.608	0.293	0.162	0.066	0.967	0.836
		Right Cheek	0.853	0.221	0.146	0.032	1.106	1.031
		Right Tilt	0.69	0.284	0.088	0.017	0.991	0.795
LTE B5	ANT0	Left Cheek	0.156	0.543	0.501	0.135	0.834	0.792
		Left Tilt	0.073	0.293	0.162	0.066	0.432	0.301
		Right Cheek	0.137	0.221	0.146	0.032	0.390	0.315
		Right Tilt	0.071	0.284	0.088	0.017	0.372	0.176
LTE B7	ANT1	Left Cheek	0.223	0.543	0.501	0.135	0.901	0.859
		Left Tilt	0.159	0.293	0.162	0.066	0.518	0.387
		Right Cheek	0.416	0.221	0.146	0.032	0.669	0.594
		Right Tilt	0.527	0.284	0.088	0.017	0.828	0.632
LTE B7	ANT0	Left Cheek	0.146	0.543	0.501	0.135	0.824	0.782
		Left Tilt	0.049	0.293	0.162	0.066	0.408	0.277
		Right Cheek	0.243	0.221	0.146	0.032	0.496	0.421
		Right Tilt	0.119	0.284	0.088	0.017	0.420	0.224
LTE B13	ANT1	Left Cheek	0.581	0.543	0.501	0.135	1.259	1.217
		Left Tilt	0.442	0.293	0.162	0.066	0.801	0.670
		Right Cheek	0.68	0.221	0.146	0.032	0.933	0.858
		Right Tilt	0.577	0.284	0.088	0.017	0.878	0.682
LTE B13	ANT0	Left Cheek	0.108	0.543	0.501	0.135	0.786	0.744
		Left Tilt	0.065	0.293	0.162	0.066	0.424	0.293



		Right Cheek	0.075	0.221	0.146	0.032	0.328	0.253
		Right Tilt	0.042	0.284	0.088	0.017	0.343	0.147
LTE B66	ANT1	Left Cheek	0.57	0.543	0.501	0.135	1.248	1.206
		Left Tilt	0.735	0.293	0.162	0.066	1.094	0.963
		Right Cheek	0.77	0.221	0.146	0.032	1.023	0.948
		Right Tilt	1.001	0.284	0.088	0.017	1.302	1.106
LTE B66	ANT0	Left Cheek	0.171	0.543	0.501	0.135	0.849	0.807
		Left Tilt	0.062	0.293	0.162	0.066	0.421	0.290
		Right Cheek	0.1	0.221	0.146	0.032	0.353	0.278
		Right Tilt	0.074	0.284	0.088	0.017	0.375	0.179
LTE B38	ANT1	Left Cheek	0.091	0.543	0.501	0.135	0.769	0.727
		Left Tilt	0.111	0.293	0.162	0.066	0.470	0.339
		Right Cheek	0.388	0.221	0.146	0.032	0.641	0.566
		Right Tilt	0.283	0.284	0.088	0.017	0.584	0.388
LTE B38	ANT0	Left Cheek	0.149	0.543	0.501	0.135	0.827	0.785
		Left Tilt	0.068	0.293	0.162	0.066	0.427	0.296
		Right Cheek	0.213	0.221	0.146	0.032	0.466	0.391
		Right Tilt	0.101	0.284	0.088	0.017	0.402	0.206
LTE B41	ANT1	Left Cheek	0.097	0.543	0.501	0.135	0.775	0.733
		Left Tilt	0.11	0.293	0.162	0.066	0.469	0.338
		Right Cheek	0.407	0.221	0.146	0.032	0.660	0.585
		Right Tilt	0.297	0.284	0.088	0.017	0.598	0.402
LTE B41	ANT0	Left Cheek	0.105	0.543	0.501	0.135	0.783	0.741
		Left Tilt	0.039	0.293	0.162	0.066	0.398	0.267
		Right Cheek	0.185	0.221	0.146	0.032	0.438	0.363
		Right Tilt	0.077	0.284	0.088	0.017	0.378	0.182

## 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 1.456 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

## 12.2.2 Body-worn 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	Sum SAR
			WWAN	2.4GWIFI(MAX)	Max.5GWIFI(MAX)	Bluetooth Max	(1+2+4)	(1+3+4)
GSM850	ANT1	Front Side 15mm	0.151	0.160	0.358	0.015	0.326	0.524
		Back Side 15mm	0.235	0.211	0.853	0.022	0.468	1.110
GSM850	ANT0	Front Side 15mm	0.069	0.160	0.358	0.015	0.244	0.442
		Back Side 15mm	0.108	0.211	0.853	0.022	0.341	0.983
GSM1900	ANT1	Front Side 15mm	0.147	0.160	0.358	0.015	0.322	0.520
		Back Side 15mm	0.488	0.211	0.853	0.022	0.721	1.363
GSM1900	ANT0	Front Side 15mm	0.056	0.160	0.358	0.015	0.231	0.429
		Back Side 15mm	0.106	0.211	0.853	0.022	0.339	0.981
WCDMA B2	ANT1	Front Side 15mm	0.149	0.160	0.358	0.015	0.324	0.522
		Back Side 15mm	0.31	0.211	0.853	0.022	0.543	1.185
WCDMA B2	ANT0	Front Side 15mm	0.277	0.160	0.358	0.015	0.452	0.650
		Back Side 15mm	0.515	0.211	0.853	0.022	0.748	<b>1.390</b>
WCDMA B4	ANT1	Front Side 15mm	0.105	0.160	0.358	0.015	0.280	0.478
		Back Side 15mm	0.142	0.211	0.853	0.022	0.375	1.017
WCDMA B4	ANT0	Front Side 15mm	0.191	0.160	0.358	0.015	0.366	0.564
		Back Side 15mm	0.347	0.211	0.853	0.022	0.580	1.222
WCDMA B5	ANT1	Front Side 15mm	0.167	0.160	0.358	0.015	0.342	0.540
		Back Side 15mm	0.173	0.211	0.853	0.022	0.406	1.048
WCDMA B5	ANT0	Front Side 15mm	0.165	0.160	0.358	0.015	0.340	0.538
		Back Side 15mm	0.246	0.211	0.853	0.022	0.479	1.121
LTE B2	ANT1	Front Side 15mm	0.117	0.160	0.358	0.015	0.292	0.490
		Back Side 15mm	0.247	0.211	0.853	0.022	0.480	1.122
LTE B2	ANT0	Front Side 15mm	0.219	0.160	0.358	0.015	0.394	0.592
		Back Side 15mm	0.466	0.211	0.853	0.022	0.699	1.341
LTE B4	ANT1	Front Side 15mm	0.175	0.160	0.358	0.015	0.350	0.548
		Back Side 15mm	0.22	0.211	0.853	0.022	0.453	1.095
LTE B4	ANT0	Front Side 15mm	0.184	0.160	0.358	0.015	0.359	0.557
		Back Side 15mm	0.27	0.211	0.853	0.022	0.503	1.145
LTE B5	ANT1	Front Side 15mm	0.147	0.160	0.358	0.015	0.322	0.520
		Back Side 15mm	0.188	0.211	0.853	0.022	0.421	1.063
LTE B5	ANT0	Front Side 15mm	0.178	0.160	0.358	0.015	0.353	0.551
		Back Side 15mm	0.261	0.211	0.853	0.022	0.494	1.136
LTE B7	ANT1	Front Side 15mm	0.145	0.160	0.358	0.015	0.320	0.518
		Back Side 15mm	0.215	0.211	0.853	0.022	0.448	1.090
LTE B7	ANT0	Front Side 15mm	0.209	0.160	0.358	0.015	0.384	0.582
		Back Side 15mm	0.222	0.211	0.853	0.022	0.455	1.097

LTE B13	ANT1	Front Side 15mm	0.14	0.160	0.358	0.015	0.315	0.513
		Back Side 15mm	0.204	0.211	0.853	0.022	0.437	1.079
LTE B13	ANT0	Front Side 15mm	0.15	0.160	0.358	0.015	0.325	0.523
		Back Side 15mm	0.225	0.211	0.853	0.022	0.458	1.100
LTE B66	ANT1	Front Side 15mm	0.127	0.160	0.358	0.015	0.302	0.500
		Back Side 15mm	0.212	0.211	0.853	0.022	0.445	1.087
LTE B66	ANT0	Front Side 15mm	0.219	0.160	0.358	0.015	0.394	0.592
		Back Side 15mm	0.396	0.211	0.853	0.022	0.629	1.271
LTE B38	ANT1	Front Side 15mm	0.076	0.160	0.358	0.015	0.251	0.449
		Back Side 15mm	0.143	0.211	0.853	0.022	0.376	1.018
LTE B38	ANT0	Front Side 15mm	0.159	0.160	0.358	0.015	0.334	0.532
		Back Side 15mm	0.163	0.211	0.853	0.022	0.396	1.038
LTE B41	ANT1	Front Side 15mm	0.081	0.160	0.358	0.015	0.256	0.454
		Back Side 15mm	0.124	0.211	0.853	0.022	0.357	0.999
LTE B41	ANT0	Front Side 15mm	0.146	0.160	0.358	0.015	0.321	0.519
		Back Side 15mm	0.141	0.211	0.853	0.022	0.374	1.016

## 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 1.39 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

### 12.2.3 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	Sum SAR
			WWAN	2.4GWIFI(MAX)	Max.5GWIFI(MAX)	BT	(1+2+4)	(1+3+4)
GSM850	ANT1	Front Side 10mm	0.173	0.271	0.145	0.025	0.444	0.318
		Back Side 10mm	0.228	0.442	0.490	0.052	0.670	0.718
		Right Edge 10mm	0.124	0.000	0.000	0.000	0.124	0.124
		Top Edge 10mm	0.224	0.330	0.112	0.018	0.554	0.336
GSM850	ANT0	Front Side 10mm	0.159	0.271	0.145	0.025	0.430	0.304
		Back Side 10mm	0.345	0.442	0.490	0.052	0.787	0.835
		Left Edge 10mm	0.090	0.189	0.659	0.015	0.279	0.749
		Right Edge 10mm	0.141	0.000	0.000	0.000	0.141	0.141
		Bottom Edge 10mm	0.232	0.000	0.000	0.000	0.232	0.232
GSM1900	ANT1	Front Side 10mm	0.272	0.271	0.145	0.025	0.543	0.417
		Back Side 10mm	0.642	0.442	0.490	0.052	1.084	<b>1.132</b>
		Right Edge 10mm	0.084	0.000	0.000	0.000	0.084	0.084
		Top Edge 10mm	0.742	0.330	0.112	0.018	1.072	0.854
GSM1900	ANT0	Front Side 10mm	0.101	0.271	0.145	0.025	0.372	0.246
		Back Side 10mm	0.171	0.442	0.490	0.052	0.613	0.661
		Left Edge 10mm	0.056	0.189	0.659	0.015	0.245	0.715
		Right Edge 10mm	0.025	0.000	0.000	0.000	0.025	0.025
		Bottom Edge 10mm	0.261	0.000	0.000	0.000	0.261	0.261
WCDMA B2	ANT1	Front Side 10mm	0.275	0.271	0.145	0.025	0.546	0.420
		Back Side 10mm	0.537	0.442	0.490	0.052	0.979	1.027
		Right Edge 10mm	0.083	0.000	0.000	0.000	0.083	0.083
		Top Edge 10mm	0.739	0.330	0.112	0.018	1.069	0.851
WCDMA B2	ANT0	Front Side 10mm	0.286	0.271	0.145	0.025	0.557	0.431
		Back Side 10mm	0.508	0.442	0.490	0.052	0.950	0.998
		Left Edge 10mm	0.169	0.189	0.659	0.015	0.358	0.828
		Right Edge 10mm	0.093	0.000	0.000	0.000	0.093	0.093
		Bottom Edge 10mm	0.711	0.000	0.000	0.000	0.711	0.711
WCDMA B4	ANT1	Front Side 10mm	0.156	0.271	0.145	0.025	0.427	0.301
		Back Side 10mm	0.225	0.442	0.490	0.052	0.667	0.715
		Right Edge 10mm	0.037	0.000	0.000	0.000	0.037	0.037
		Top Edge 10mm	0.281	0.330	0.112	0.018	0.611	0.393
WCDMA B4	ANT0	Front Side 10mm	0.279	0.271	0.145	0.025	0.550	0.424
		Back Side 10mm	0.481	0.442	0.490	0.052	0.923	0.971
		Left Edge 10mm	0.112	0.189	0.659	0.015	0.301	0.771
		Right Edge 10mm	0.099	0.000	0.000	0.000	0.099	0.099
		Bottom Edge 10mm	0.614	0.000	0.000	0.000	0.614	0.614

WCDMA B5	ANT1	Front Side 10mm	0.163	0.271	0.145	0.025	0.434	0.308
		Back Side 10mm	0.204	0.442	0.490	0.052	0.646	0.694
		Right Edge 10mm	0.151	0.000	0.000	0.000	0.151	0.151
		Top Edge 10mm	0.217	0.330	0.112	0.018	0.547	0.329
WCDMA B5	ANT0	Front Side 10mm	0.144	0.271	0.145	0.025	0.415	0.289
		Back Side 10mm	0.278	0.442	0.490	0.052	0.720	0.768
		Left Edge 10mm	0.090	0.189	0.659	0.015	0.279	0.749
		Right Edge 10mm	0.194	0.000	0.000	0.000	0.194	0.194
		Bottom Edge 10mm	0.221	0.000	0.000	0.000	0.221	0.221
LTE B2	ANT1	Front Side 10mm	0.267	0.271	0.145	0.025	0.538	0.412
		Back Side 10mm	0.630	0.442	0.490	0.052	1.072	1.120
		Right Edge 10mm	0.064	0.000	0.000	0.000	0.064	0.064
		Top Edge 10mm	0.649	0.330	0.112	0.018	0.979	0.761
LTE B2	ANT0	Front Side 10mm	0.330	0.271	0.145	0.025	0.601	0.475
		Back Side 10mm	0.594	0.442	0.490	0.052	1.036	1.084
		Left Edge 10mm	0.181	0.189	0.659	0.015	0.370	0.840
		Right Edge 10mm	0.110	0.000	0.000	0.000	0.110	0.110
		Bottom Edge 10mm	0.699	0.000	0.000	0.000	0.699	0.699
LTE B4	ANT1	Front Side 10mm	0.260	0.271	0.145	0.025	0.531	0.405
		Back Side 10mm	0.469	0.442	0.490	0.052	0.911	0.959
		Right Edge 10mm	0.052	0.000	0.000	0.000	0.052	0.052
		Top Edge 10mm	0.459	0.330	0.112	0.018	0.789	0.571
LTE B4	ANT0	Front Side 10mm	0.310	0.271	0.145	0.025	0.581	0.455
		Back Side 10mm	0.568	0.442	0.490	0.052	1.010	1.058
		Left Edge 10mm	0.117	0.189	0.659	0.015	0.306	0.776
		Right Edge 10mm	0.097	0.000	0.000	0.000	0.097	0.097
		Bottom Edge 10mm	0.708	0.000	0.000	0.000	0.708	0.708
LTE B5	ANT1	Front Side 10mm	0.176	0.271	0.145	0.025	0.447	0.321
		Back Side 10mm	0.230	0.442	0.490	0.052	0.672	0.720
		Right Edge 10mm	0.164	0.000	0.000	0.000	0.164	0.164
		Top Edge 10mm	0.236	0.330	0.112	0.018	0.566	0.348
LTE B5	ANT0	Front Side 10mm	0.182	0.271	0.145	0.025	0.453	0.327
		Back Side 10mm	0.331	0.442	0.490	0.052	0.773	0.821
		Left Edge 10mm	0.120	0.189	0.659	0.015	0.309	0.779
		Right Edge 10mm	0.231	0.000	0.000	0.000	0.231	0.231
		Bottom Edge 10mm	0.281	0.000	0.000	0.000	0.281	0.281
LTE B7	ANT1	Front Side 10mm	0.135	0.271	0.145	0.025	0.406	0.280
		Back Side 10mm	0.217	0.442	0.490	0.052	0.659	0.707
		Right Edge 10mm	0.229	0.000	0.000	0.000	0.229	0.229
		Top Edge 10mm	0.117	0.330	0.112	0.018	0.447	0.229
LTE B7	ANT0	Front Side 10mm	0.368	0.271	0.145	0.025	0.639	0.513
		Back Side 10mm	0.472	0.442	0.490	0.052	0.914	0.962
		Left Edge 10mm	0.278	0.189	0.659	0.015	0.467	0.937

		Right Edge 10mm	0.050	0.000	0.000	0.000	0.050	0.050
		Bottom Edge 10mm	0.265	0.000	0.000	0.000	0.265	0.265
LTE B13	ANT1	Front Side 10mm	0.127	0.271	0.145	0.025	0.398	0.272
		Back Side 10mm	0.212	0.442	0.490	0.052	0.654	0.702
		Right Edge 10mm	0.222	0.000	0.000	0.000	0.222	0.222
		Top Edge 10mm	0.155	0.330	0.112	0.018	0.485	0.267
		Front Side 10mm	0.135	0.271	0.145	0.025	0.406	0.280
LTE B13	ANT0	Back Side 10mm	0.201	0.442	0.490	0.052	0.643	0.691
		Left Edge 10mm	0.110	0.189	0.659	0.015	0.299	0.769
		Right Edge 10mm	0.265	0.000	0.000	0.000	0.265	0.265
		Bottom Edge 10mm	0.181	0.000	0.000	0.000	0.181	0.181
		Front Side 10mm	0.203	0.271	0.145	0.025	0.474	0.348
LTE B66	ANT1	Back Side 10mm	0.336	0.442	0.490	0.052	0.778	0.826
		Right Edge 10mm	0.049	0.000	0.000	0.000	0.049	0.049
		Top Edge 10mm	0.435	0.330	0.112	0.018	0.765	0.547
		Front Side 10mm	0.370	0.271	0.145	0.025	0.641	0.515
LTE B66	ANT0	Back Side 10mm	0.565	0.442	0.490	0.052	1.007	1.055
		Left Edge 10mm	0.139	0.189	0.659	0.015	0.328	0.798
		Right Edge 10mm	0.101	0.000	0.000	0.000	0.101	0.101
		Bottom Edge 10mm	0.840	0.000	0.000	0.000	0.840	0.840
		Front Side 10mm	0.156	0.271	0.145	0.025	0.427	0.301
LTE B38	ANT1	Back Side 10mm	0.243	0.442	0.490	0.052	0.685	0.733
		Right Edge 10mm	0.250	0.000	0.000	0.000	0.250	0.250
		Top Edge 10mm	0.124	0.330	0.112	0.018	0.454	0.236
		Front Side 10mm	0.303	0.271	0.145	0.025	0.574	0.448
LTE B38	ANT0	Back Side 10mm	0.331	0.442	0.490	0.052	0.773	0.821
		Left Edge 10mm	0.222	0.189	0.659	0.015	0.411	0.881
		Right Edge 10mm	0.037	0.000	0.000	0.000	0.037	0.037
		Bottom Edge 10mm	0.237	0.000	0.000	0.000	0.237	0.237
		Front Side 10mm	0.133	0.271	0.145	0.025	0.404	0.278
LTE B41	ANT1	Back Side 10mm	0.284	0.442	0.490	0.052	0.726	0.774
		Right Edge 10mm	0.232	0.000	0.000	0.000	0.232	0.232
		Top Edge 10mm	0.100	0.330	0.112	0.018	0.430	0.212
		Front Side 10mm	0.294	0.271	0.145	0.025	0.565	0.439
LTE B41	ANT0	Back Side 10mm	0.296	0.442	0.490	0.052	0.738	0.786
		Left Edge 10mm	0.194	0.189	0.659	0.015	0.383	0.853
		Right Edge 10mm	0.055	0.000	0.000	0.000	0.055	0.055
		Bottom Edge 10mm	0.215	0.000	0.000	0.000	0.215	0.215

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 1.132 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

### 12.2.4 Specific Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

Band	Antenna	Position	Stand alone SAR		SUM SAR
			1	2	
			WWAN	Max.5GWIFI(MAX)	Sum SAR (1+2)
WCDMA B2	ANT1	Back Side 0mm	1.268	0.497	1.765
		Top Edge 0mm	1.189	0.044	1.233
LTE B2	ANT1	Back Side 0mm	1.455	0.578	<b>2.033</b>
		Top Edge 0mm	1.619	0.055	1.674

**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 2.033 W/Kg < 4.0 W/kg, so Simultaneous Transmission SAR test is not required.

### 12.2.5 Highest Total Exposure Ratio of Simultaneous Transmission

NFC multi-transmit requires the use of the TER formula:

$$TER = \sum_{k=1}^{N_S} \left( \frac{SAR_k}{SAR_{lim}} \right) + \sum_{k=1}^{N_f} \left( \frac{MPE_{field, k}}{MPE_{field, lim}} \right)^2 + \sum_{k=1}^{N_{PD}} \left( \frac{MPE_{PD, k}}{MPE_{PD, lim}} \right)$$

The maximum SAR value for Simultaneous Transmission is 1.456 [W/kg]. Therefore, the worst TER = (1.456+0.001)/1.6 = 0.911 < 1, the NFC SAR transmit simultaneously Pass.

## 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
750MHz Validation Dipole	Speag	D750V3	SN: 1208	2021/07/05	2024/07/05
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: 7506	2023/06/29	2024/06/28
Data Acquisition Electronicsr	Speag	DAE4	SN: 1710	2024/01/03	2025/01/02
Signal Generator	R&S	SMB100A	177746	2023/05/10	2024/05/09
Power Meter	R&S	NRVD-B2	835843/014	2023/09/05	2024/09/04
Power Sensor	R&S	NRV-Z4	100381	2023/09/05	2024/09/04
Power Sensor	R&S	NRV-Z2	100211	2023/09/05	2024/09/04
Wireless Communication Test Set	Anritsu	MT8820C	6201144551	2023/06/29	2024/06/29
Network Analyzer	Agilent	E5071C	MY46103472	2023/11/14	2024/11/14
Thermometer	Elitech	RC-4HC	EF5238001628	2023/10/09	2024/10/09
Thermometer	Elitech	RC-4HC	EF7239002652	2023/11/17	2024/11/17
Power Amplifier	SATIMO	6552B	22374	N/A	N/A
Dielectric Probe Kit	Speag	DAK3.5	SN: 1312	N/A	N/A
Phantom	Speag	SAM	SN: 1576	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 a DAK3.5 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 (%)
2024.01.25	Head	750	21.3	0.88	43.15	0.89	41.94	-0.67	2.88
2024.01.26	Head	835	21.4	0.92	41.53	0.90	41.50	2.22	0.07
2024.01.27	Head	835	21.3	0.88	41.83	0.90	41.50	-1.78	0.79
2024.01.28	Head	835	21.4	0.91	41.86	0.90	41.50	1.44	0.86
2024.01.29	Head	1750	21.4	1.38	40.74	1.37	40.08	0.80	1.66
2024.01.30	Head	1750	21.4	1.38	38.88	1.37	40.08	0.58	-2.99
2024.01.31	Head	1750	21.6	1.36	40.51	1.37	40.08	-1.02	1.07
2024.02.01	Head	1900	21.4	1.37	39.85	1.40	40.00	-1.93	-0.38
2024.02.02	Head	1900	21.3	1.42	40.59	1.40	40.00	1.29	1.48
2024.02.04	Head	2450	21.5	1.84	38.60	1.80	39.20	1.94	-1.53
2024.02.05	Head	2600	21.3	1.98	39.55	1.96	39.01	1.02	1.38
2024.02.06	Head	2600	21.5	1.97	39.30	1.96	39.01	0.31	0.74
2024.02.07	Head	2600	21.2	2.00	37.74	1.96	39.01	1.99	-3.25
2024.02.08	Head	5250	21.1	4.68	36.60	4.71	35.93	-0.57	1.86
2024.02.09	Head	5600	21.2	5.05	35.12	5.07	35.53	-0.32	-1.15
2024.02.09	Head	5750	21.2	5.14	35.96	5.22	35.36	-1.63	1.69

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 (%)
2024.01.25	Head	750	100	0.87	8.66	8.29	4.46
2024.01.26	Head	835	100	0.99	9.88	9.76	1.23
2024.01.27	Head	835	100	0.98	9.75	9.76	-0.10
2024.01.28	Head	835	100	0.98	9.83	9.76	0.72
2024.01.29	Head	1750	100	3.77	37.70	36.70	2.72
2024.01.30	Head	1750	100	3.68	36.80	36.70	0.27
2024.01.31	Head	1750	100	3.71	37.10	36.70	1.09
2024.02.01	Head	1900	100	4.08	40.80	40.30	1.24
2024.02.02	Head	1900	100	4.11	41.10	40.30	1.99
2024.02.03	Head	1900	100	3.98	39.80	40.30	-1.24
2024.02.04	Head	2450	100	5.31	53.10	53.00	0.19
2024.02.05	Head	2600	100	5.77	57.70	56.80	1.58
2024.02.06	Head	2600	100	5.65	56.50	56.80	-0.53
2024.02.07	Head	2600	100	5.81	58.10	56.80	2.29
2024.02.08	Head	5250	100	7.67	76.70	77.80	-1.41
2024.02.09	Head	5600	100	8.14	81.40	81.20	0.25
2024.02.09	Head	5750	100	8.14	81.40	77.20	5.44

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

## Head liquid 10g

Date	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2024.02.01	1900	100	2.04	20.40	20.30	0.49
2024.02.02	1900	100	2.12	21.20	20.30	4.43
2024.02.03	1900	100	1.98	19.80	20.30	-2.46
2024.02.08	5250	100	2.18	21.80	22.10	-1.36
2024.02.09	5600	100	2.350	23.50	23.10	1.73

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

## System Performance Check Data (750MHz)

Date: 2024.01.25

Communication System Band: D750 (750.0 MHz); Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used (extrapolated):  $f = 750$  MHz;  $\sigma = 0.884$  S/m;  $\epsilon_r = 43.148$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.6°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.54, 10.54, 10.54); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**CW 750/Area Scan (61x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.866 W/kg

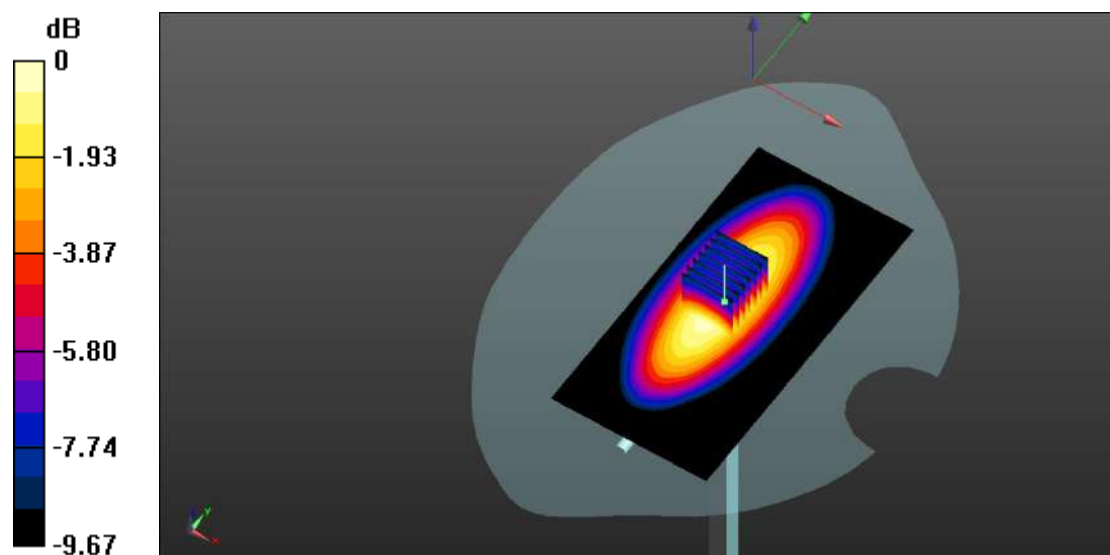
**CW 750/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 29.97 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.15 W/kg

**SAR(1 g) = 0.866 W/kg; SAR(10 g) = 0.568 W/kg**

Maximum value of SAR (measured) = 0.878 W/kg



0 dB = 0.878 W/kg

## System Performance Check Data (835MHz)

Date: 2024.01.26

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

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.92$  S/m;  $\epsilon_r = 41.528$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.2°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.35, 10.35, 10.35); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 0.938 W/kg

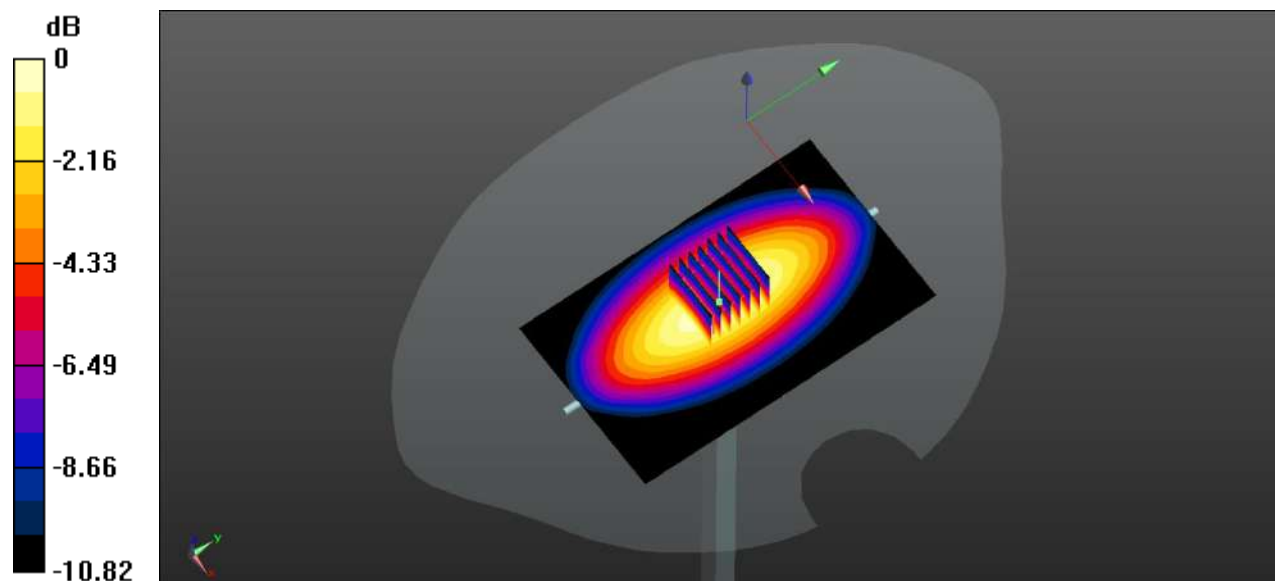
**CW 835/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 33.81 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.36 W/kg

**SAR(1 g) = 0.975 W/kg; SAR(10 g) = 0.628 W/kg**

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



0 dB = 0.977 W/kg

## System Performance Check Data (835MHz)

Date: 2024.01.27

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

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.884$  S/m;  $\epsilon_r = 41.828$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.35, 10.35, 10.35); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**CW835/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.975 W/kg

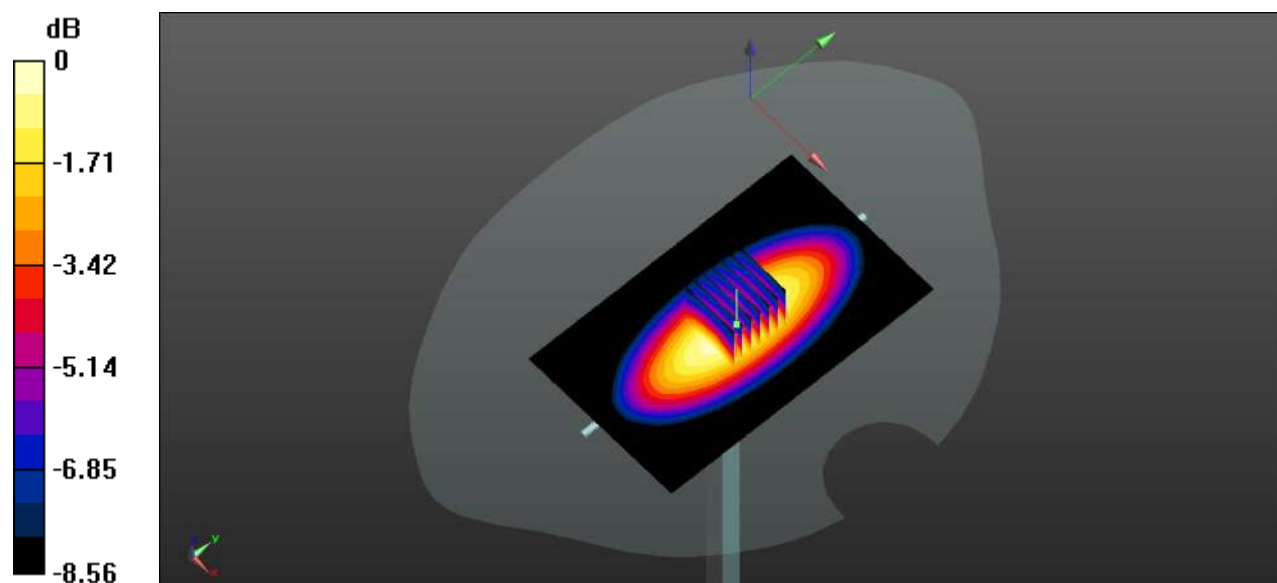
**CW835/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.01 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.44 W/kg

**SAR(1 g) = 0.975 W/kg; SAR(10 g) = 0.628 W/kg**

Maximum value of SAR (measured) = 0.969 W/kg



0 dB = 0.969 W/kg

# System Performance Check Data (835MHz)

Date: 2024.01.28

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

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.913 \text{ S/m}$ ;  $\epsilon_r = 41.857$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.4°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.35, 10.35, 10.35); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 0.987 W/kg

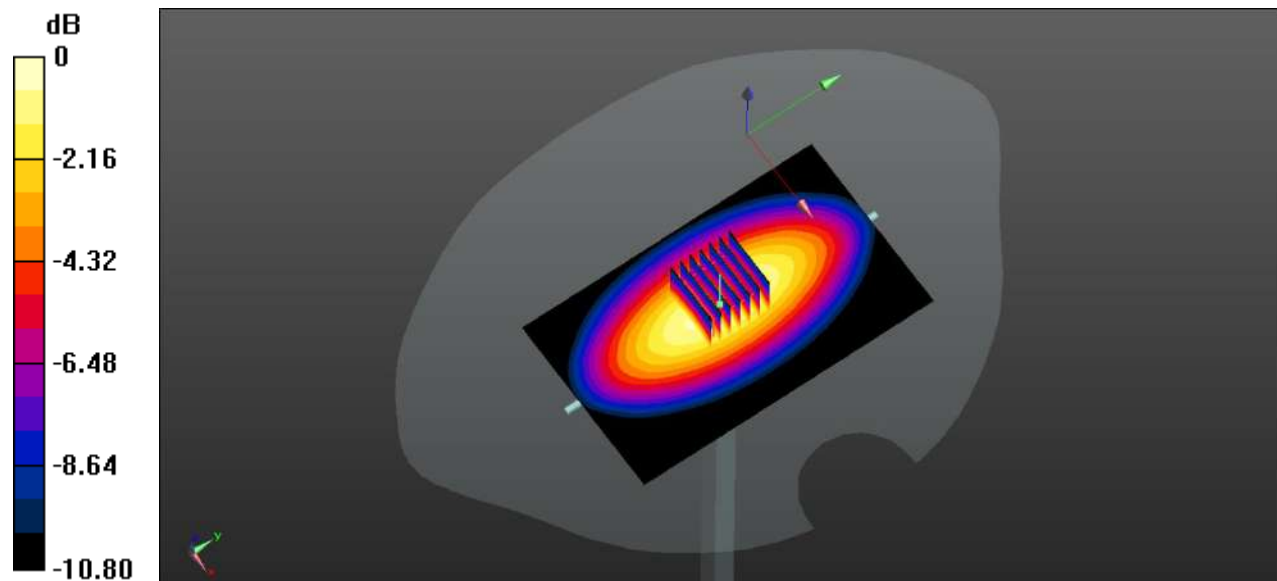
**CW 835/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 34.62V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.46 W/kg

**SAR(1 g) = 0.983 W/kg; SAR(10 g) = 0.641 W/kg**

Maximum value of SAR (measured) = 1.11 W/kg



0 dB = 1.11 W/kg

## System Performance Check Data (1750MHz)

Date: 2024.01.29

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

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.381$  S/m;  $\epsilon_r = 40.744$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.99, 8.99, 8.99); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 4.31 W/kg

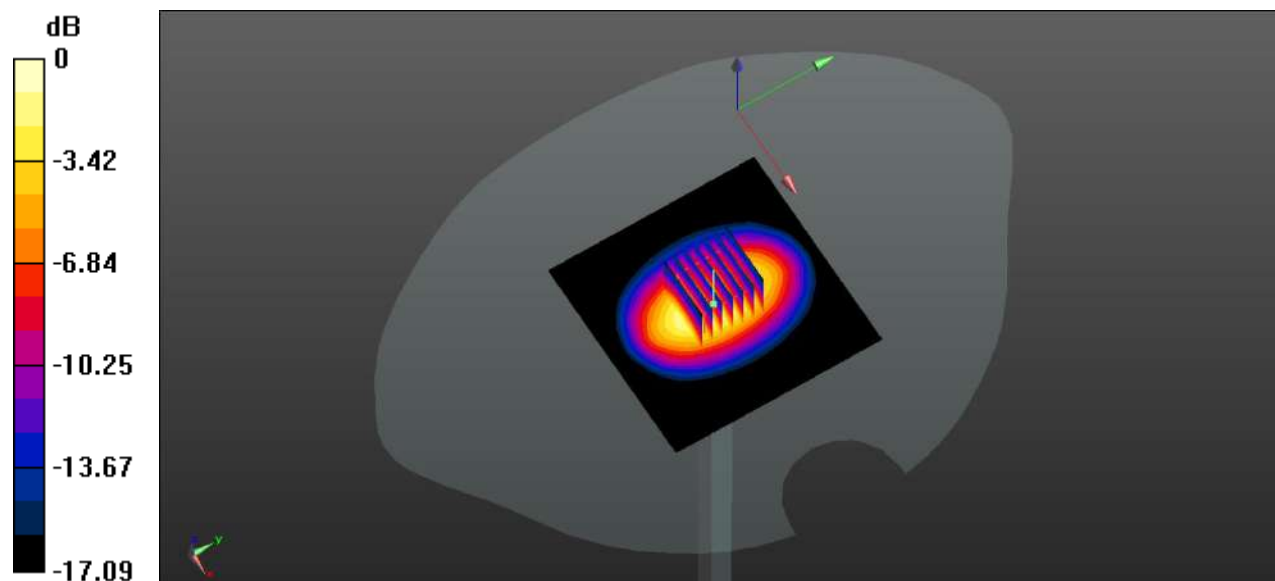
**CW 1750/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.24 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 7.03 W/kg

**SAR(1 g) = 3.77 W/kg; SAR(10 g) = 1.94 W/kg**

Maximum value of SAR (measured) = 4.32 W/kg



0 dB = 4.32 W/kg



## System Performance Check Data (1750MHz)

Date: 2024.01.30

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

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.378$  S/m;  $\epsilon_r = 38.881$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.99, 8.99, 8.99); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 4.19 W/kg

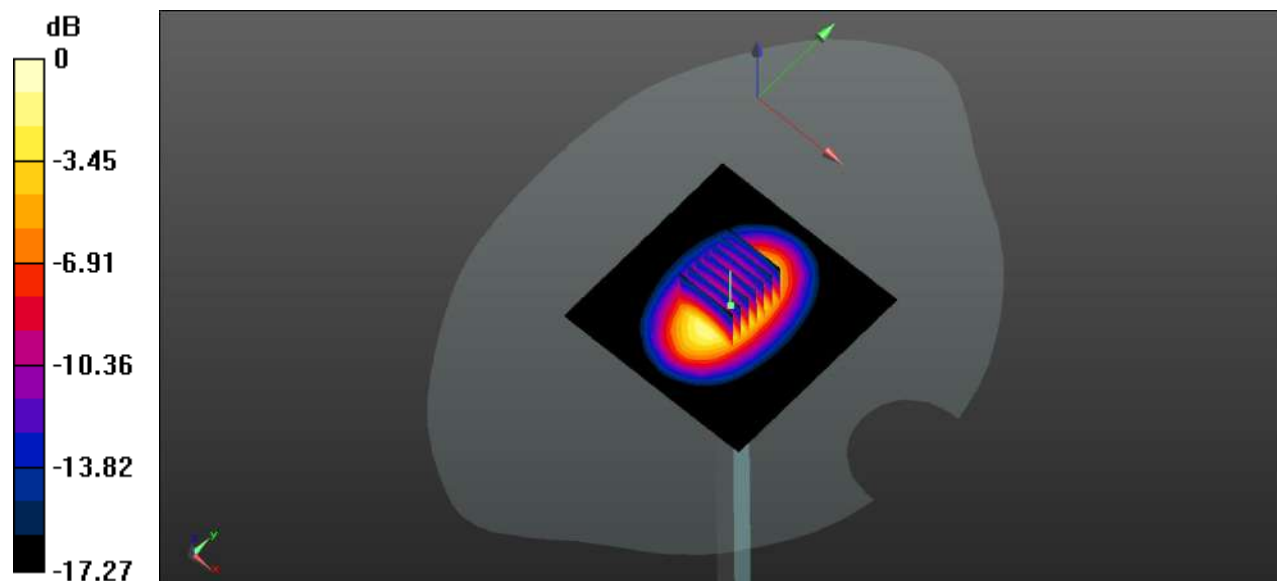
**CW 1750/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.44 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 6.75 W/kg

**SAR(1 g) = 3.68 W/kg; SAR(10 g) = 1.88 W/kg**

Maximum value of SAR (measured) = 4.15 W/kg



0 dB = 4.15 W/kg

# System Performance Check Data (1750MHz)

Date: 2024.01.31

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

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.356$  S/m;  $\epsilon_r = 40.509$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.6°C Liquid Temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.99, 8.99, 8.99); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 4.13 W/kg

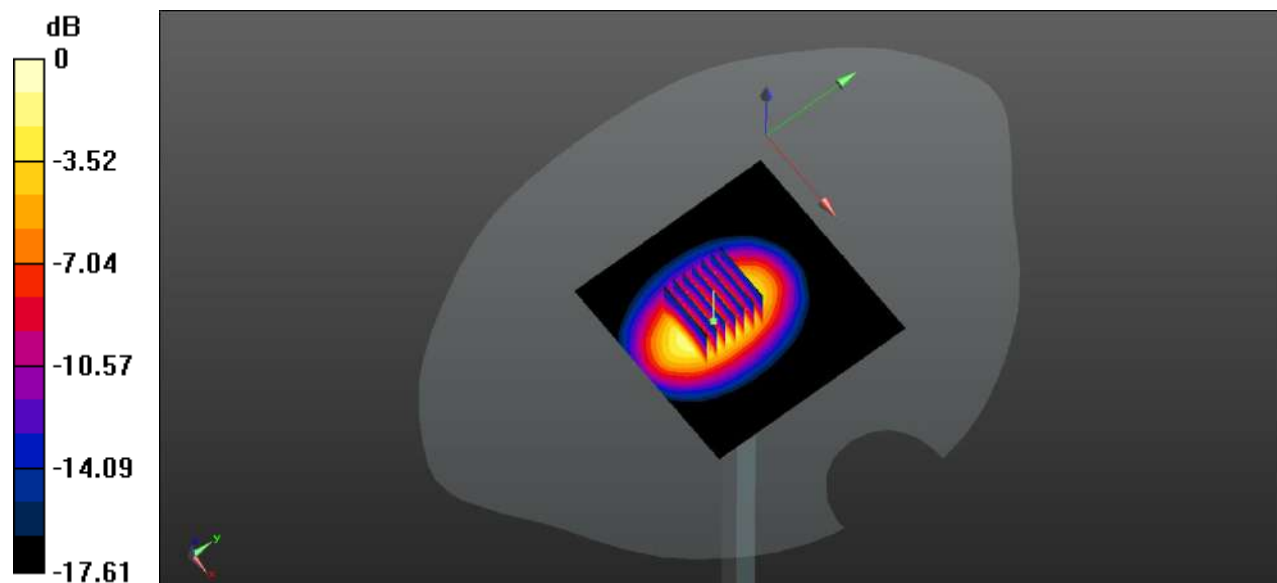
**CW 1750/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.26 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 6.75 W/kg

**SAR(1 g) = 3.71 W/kg; SAR(10 g) = 1.95 W/kg**

Maximum value of SAR (measured) = 4.23 W/kg



0 dB = 4.23 W/kg

# System Performance Check Data (1900MHz)

Date: 2024.02.01

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

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.373$  S/m;  $\epsilon_r = 39.848$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 4.68 W/kg

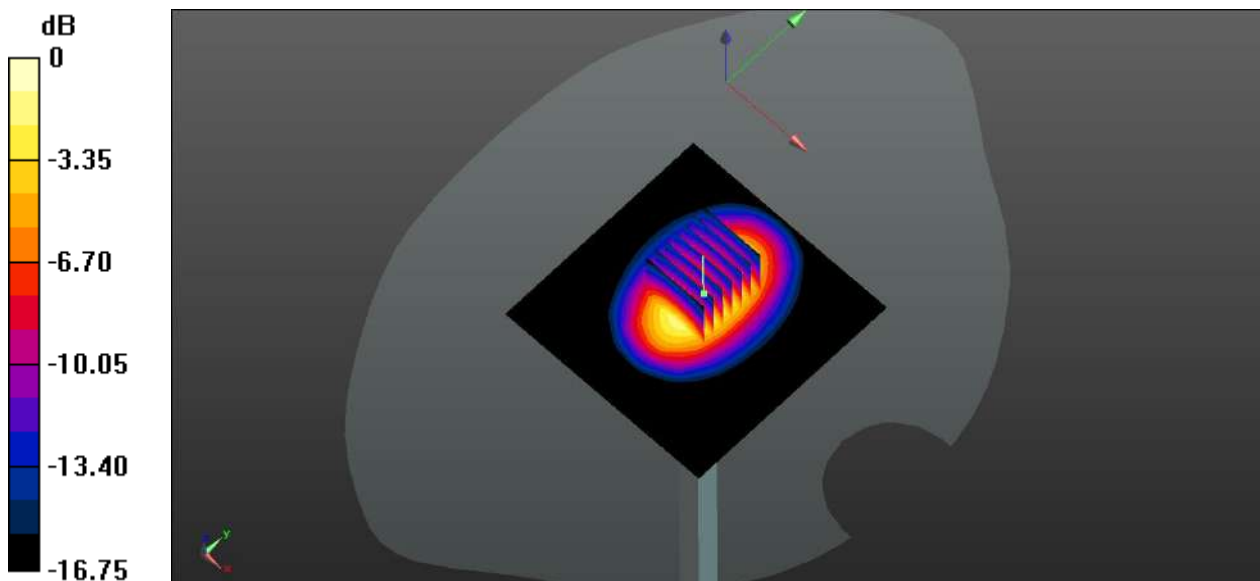
**CW 1900/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.76 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 7.32 W/kg

**SAR(1 g) = 4.08 W/kg; SAR(10 g) = 2.04 W/kg**

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



0 dB = 4.71 W/kg

## System Performance Check Data (1900MHz)

Date: 2024.02.02

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

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.418$  S/m;  $\epsilon_r = 40.592$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 4.37 W/kg

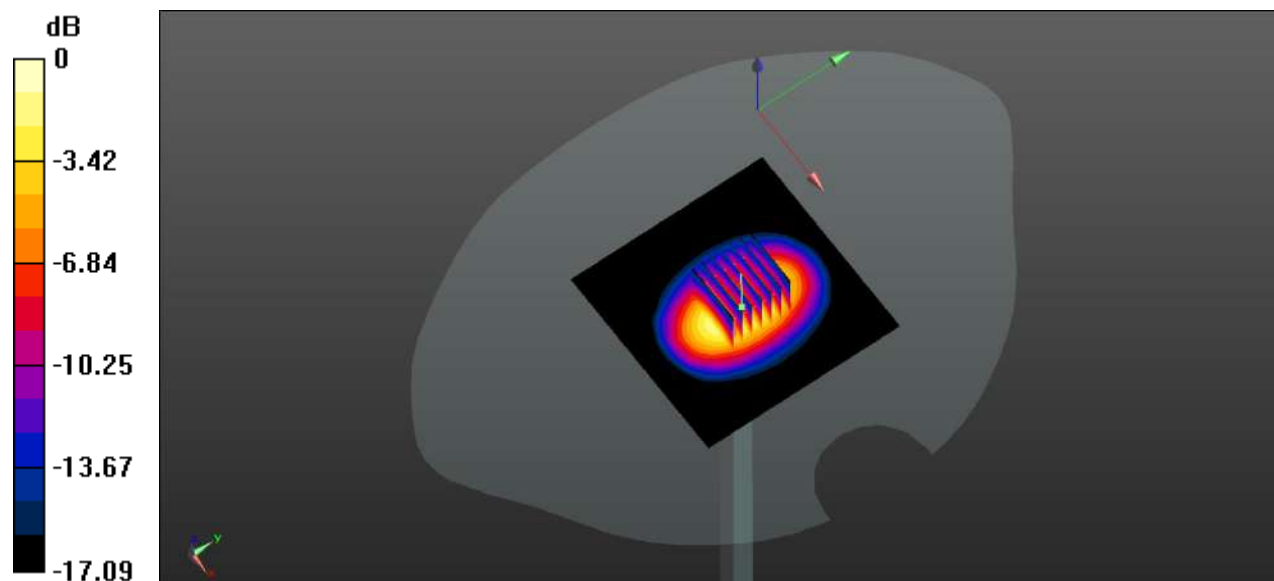
**CW 1900/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 53.71 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 7.21 W/kg

**SAR(1 g) = 4.11 W/kg; SAR(10 g) = 2.12 W/kg**

Maximum value of SAR (measured) = 4.64 W/kg



0 dB = 4.64 W/kg

# System Performance Check Data (1900MHz)

Date: 2024.02.03

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

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.427$  S/m;  $\epsilon_r = 39.56$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 4.77 W/kg

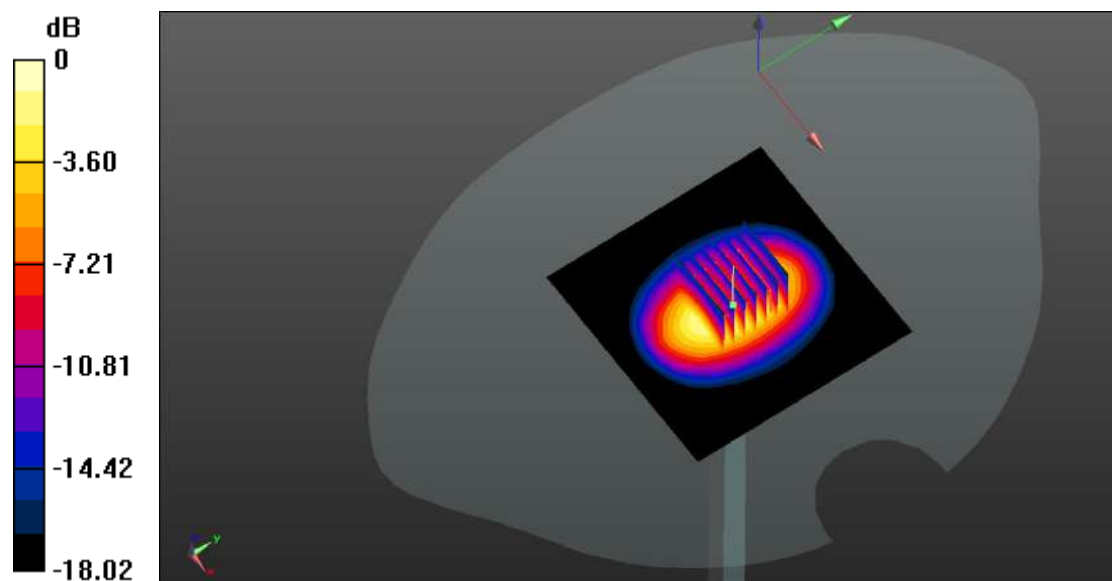
**CW 1900/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.86 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 7.47 W/kg

**SAR(1 g) = 3.98 W/kg; SAR(10 g) = 1.98 W/kg**

Maximum value of SAR (measured) = 4.37 W/kg



0 dB = 4.37 W/kg

# System Performance Check Data (2450MHz)

Date: 2024.02.04

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

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.835$  S/m;  $\epsilon_r = 38.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.98, 7.98, 7.98); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 6.27 W/kg

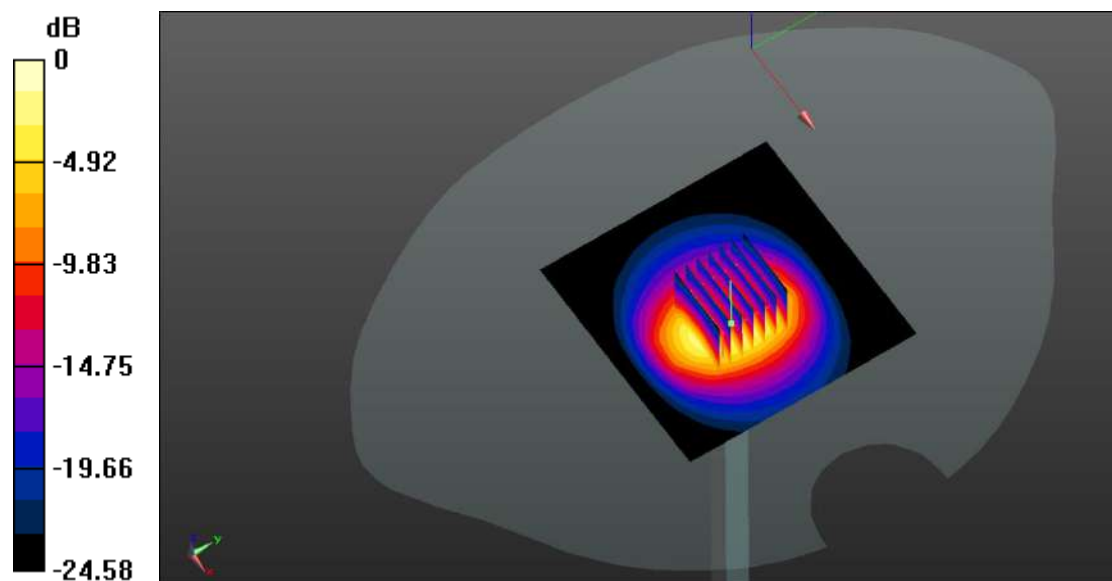
**CW 2450/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 45.43 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 12.3 W/kg

**SAR(1 g) = 5.31 W/kg; SAR(10 g) = 2.47 W/kg**

Maximum value of SAR (measured) = 5.68 W/kg



0 dB = 5.68 W/kg

## System Performance Check Data (2600MHz)

Date: 2024.02.05

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

Medium parameters used (extrapolated):  $f = 2600$  MHz;  $\sigma = 1.98$  S/m;  $\epsilon_r = 39.548$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.64, 7.64, 7.64); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 6.73 W/kg

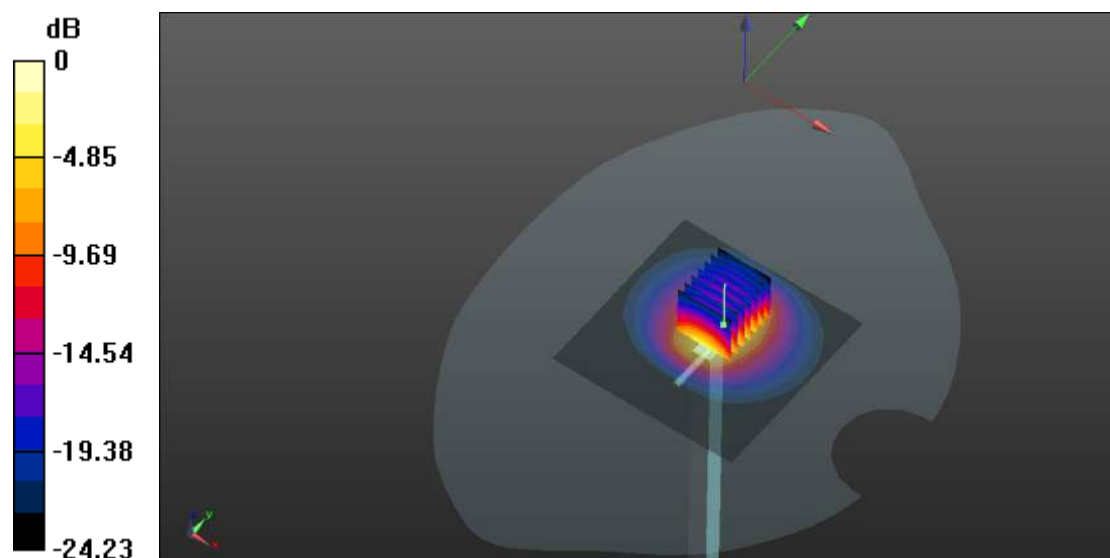
**CW 2600/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.39 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 13.6 W/kg

**SAR(1 g) = 5.77 W/kg; SAR(10 g) = 2.55 W/kg**

Maximum value of SAR (measured) = 6.71 W/kg



0 dB = 6.71 W/kg

## System Performance Check Data (2600MHz)

Date: 2024.02.06

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

Medium parameters used (extrapolated):  $f = 2600$  MHz;  $\sigma = 1.966$  S/m;  $\epsilon_r = 39.299$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.4°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.64, 7.64, 7.64); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**CW 2600/Area Scan (81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 7.13 W/kg

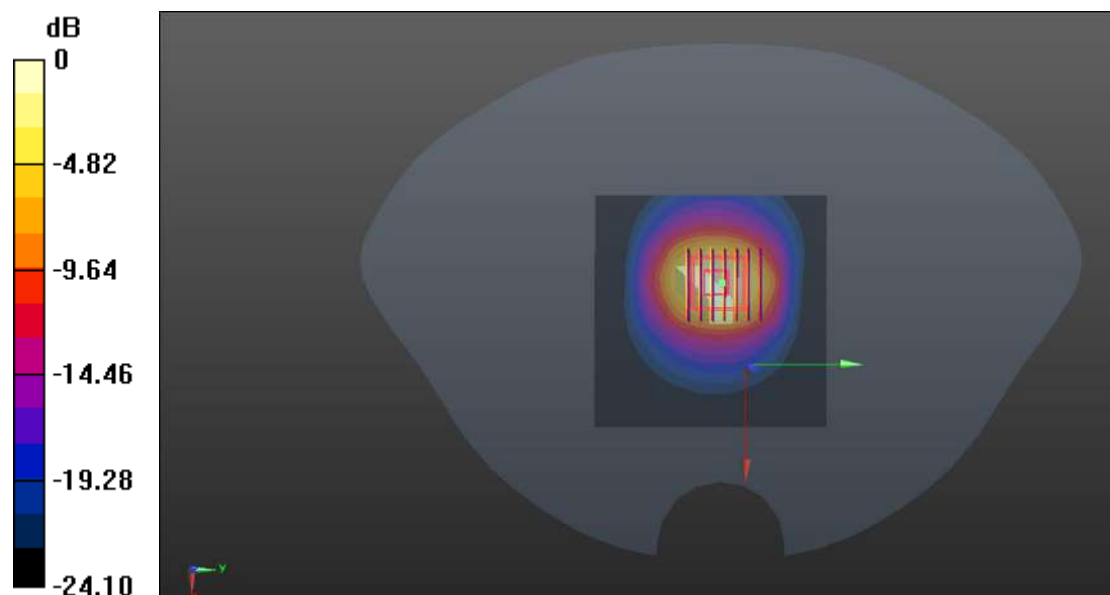
**CW 2600/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 47.44 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 12.8 W/kg

**SAR(1 g) = 5.65 W/kg; SAR(10 g) = 2.39 W/kg**

Maximum value of SAR (measured) = 6.44 W/kg



0 dB = 6.44 W/kg



## System Performance Check Data (2600MHz)

Date: 2024.02.07

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

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.999$  S/m;  $\epsilon_r = 37.742$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.64, 7.64, 7.64); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 6.37 W/kg

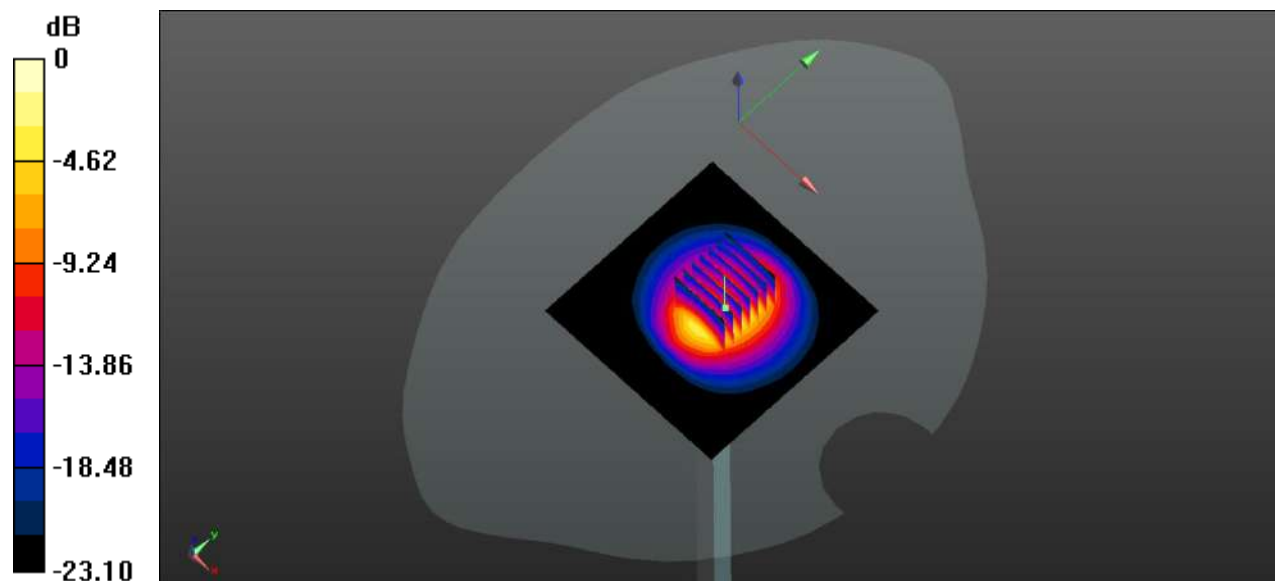
**CW 2600/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.38 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 11.3 W/kg

**SAR(1 g) = 5.81 W/kg; SAR(10 g) = 2.59 W/kg**

Maximum value of SAR (measured) = 6.44 W/kg



0 dB = 6.44 W/kg

## System Performance Check Data (5250MHz)

Date: 2024.02.08

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

Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.683$  S/m;  $\epsilon_r = 36.599$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(5.48, 5.48, 5.48); Calibrated: 2023.06.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 8.41 W/kg

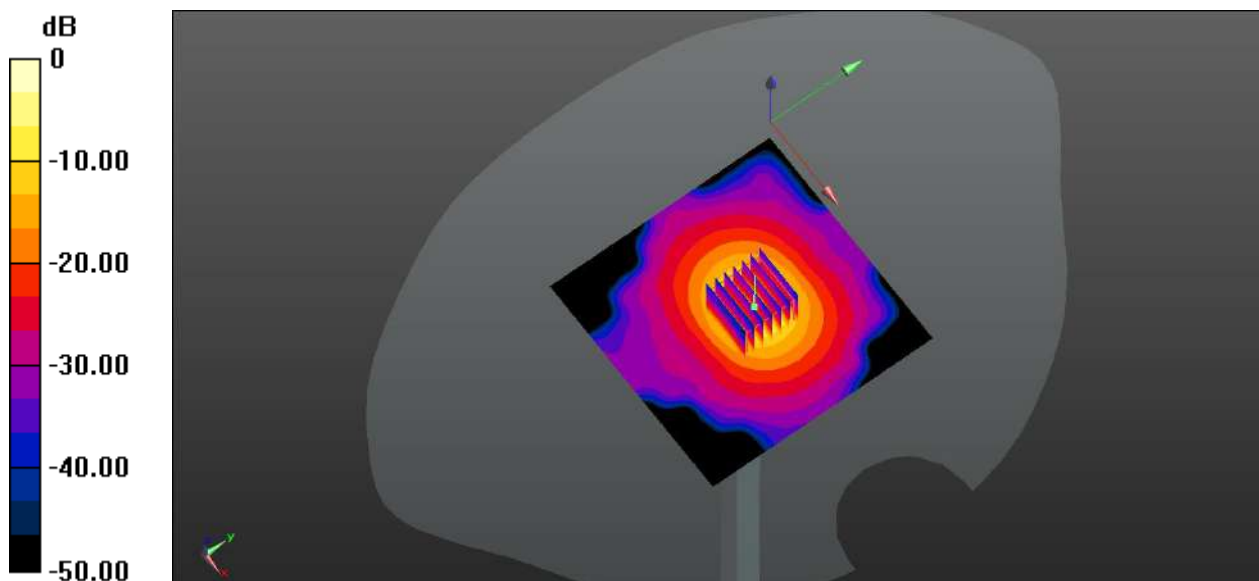
**CW 5250/Zoom Scan (7x7x21)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 37.06 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 33.2 W/kg

**SAR(1 g) = 7.67 W/kg; SAR(10 g) = 2.18 W/kg**

Maximum value of SAR (measured) = 19.88 W/kg



0 dB = 19.88 W/kg

## System Performance Check Data (5600MHz)

Date: 2024.02.09

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

Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.054$  S/m;  $\epsilon_r = 35.122$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(4.99, 4.99, 4.99); Calibrated: 2023.06.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 8.44 W/kg

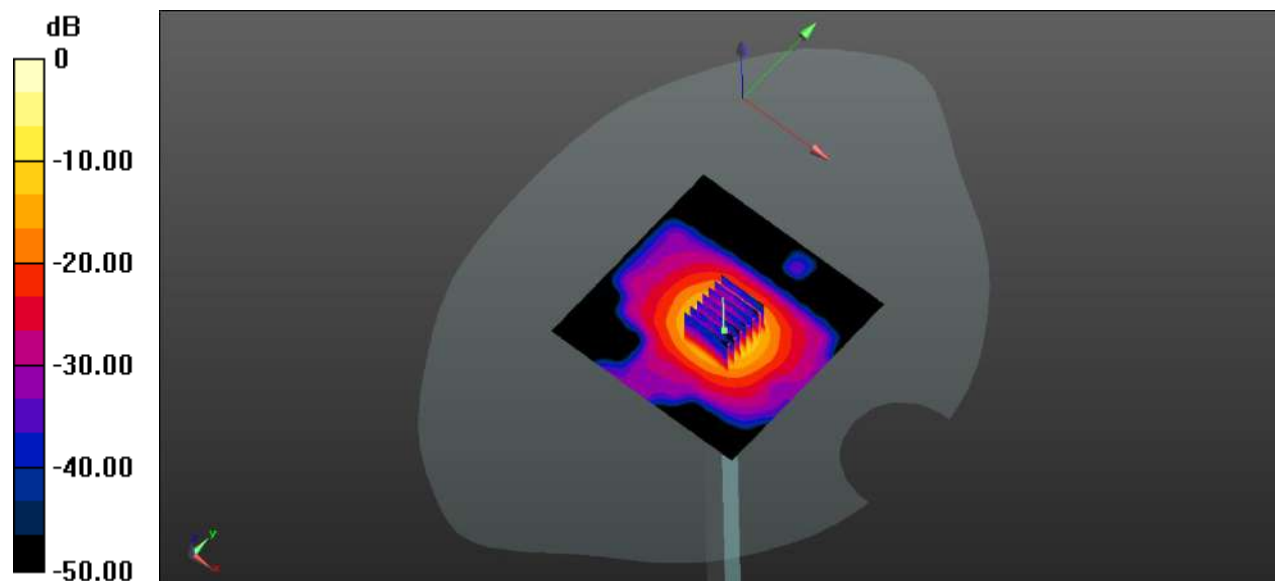
**CW 5600/Zoom Scan (7x7x21)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 34.67 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 38.66 W/kg

**SAR(1 g) = 8.14 W/kg; SAR(10 g) = 2.35 W/kg**

Maximum value of SAR (measured) = 21.55 W/kg



0 dB = 21.55 W/kg

## System Performance Check Data (5750MHz)

Date: 2024.02.10

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

Medium parameters used:  $f = 5750$  MHz;  $\sigma = 5.135$  S/m;  $\epsilon_r = 35.958$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(4.95, 4.95, 4.95); Calibrated: 2023.06.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**CW 5750 100mW/Area Scan (81x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 9.07 W/kg

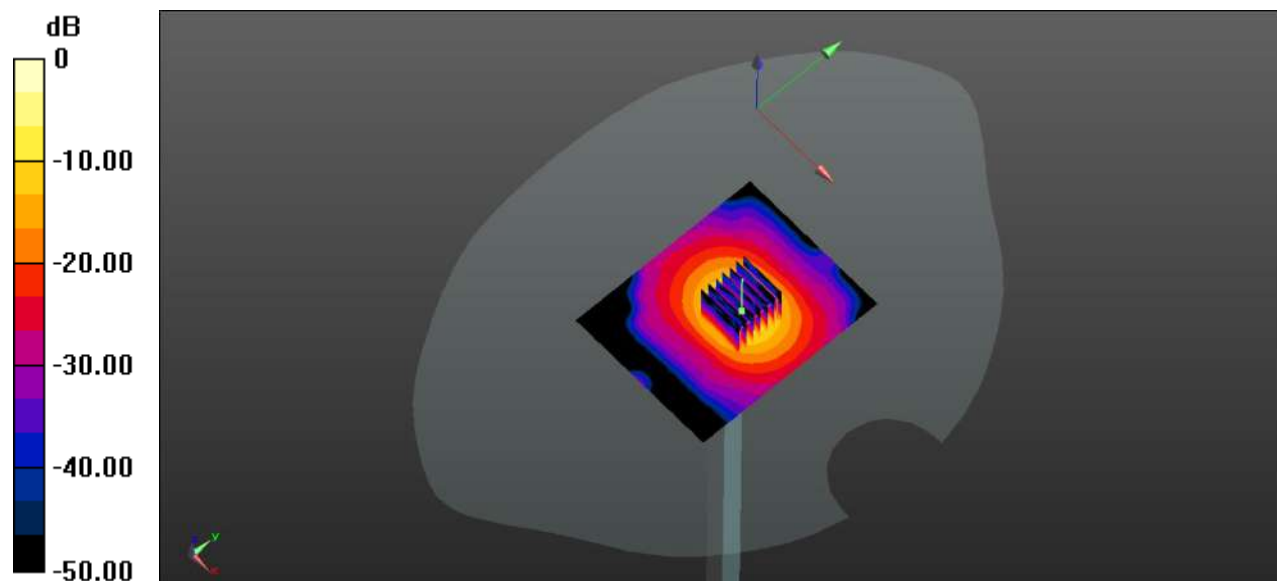
**CW 5750 100mW/Zoom Scan (7x7x21)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 33.35 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 40.5 W/kg

**SAR(1 g) = 7.82 W/kg; SAR(10 g) = 2.26 W/kg**

Maximum value of SAR (measured) = 19.4 W/kg



0 dB = 19.4 W/kg

## ANNEX C TEST DATA

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

Date: 2024.01.26

Communication System Band: GSM850; Frequency: 824.2 MHz; Duty Cycle: 1:2.08

Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.874$  S/m;  $\epsilon_r = 41.599$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature: 22.2°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.35, 10.35, 10.35); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch128/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.11 W/kg

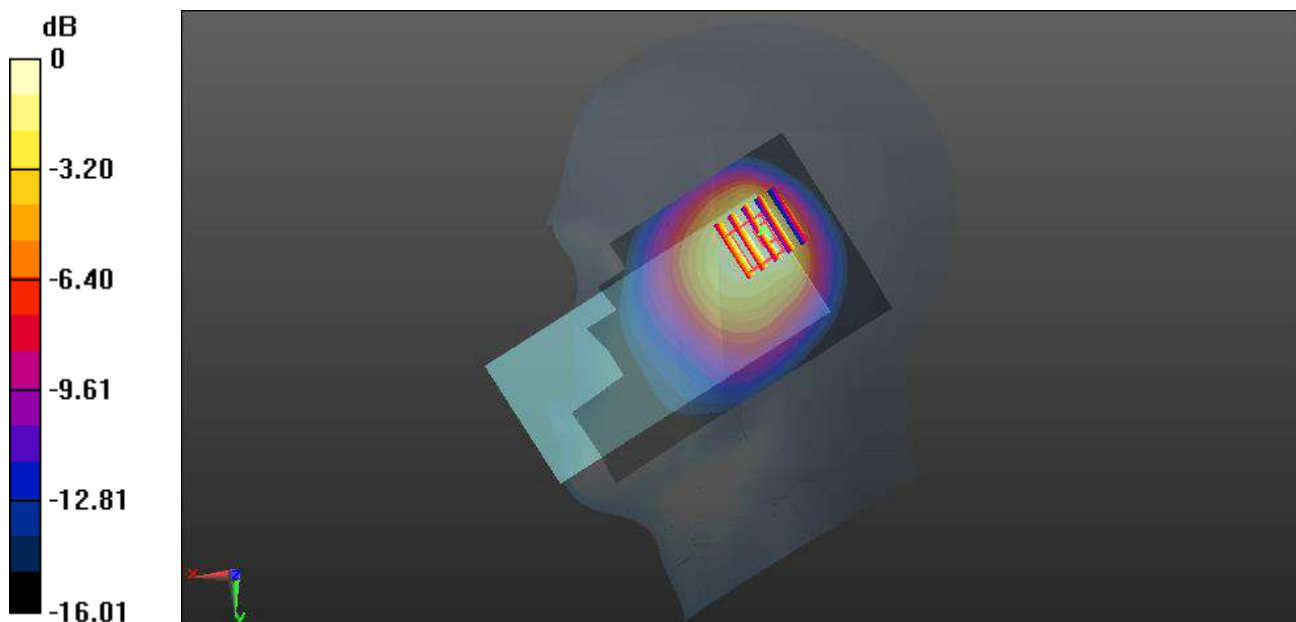
**Ch128/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.48 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.43 W/kg

**SAR(1 g) = 0.802 W/kg; SAR(10 g) = 0.520 W/kg**

Maximum value of SAR (measured) = 0.843 W/kg



0 dB = 0.843 W/kg

## Meas.2 Body Plane with Back Side 15mm on Middle Channel in GPRS850 4Slots mode with Antenna 0

Date: 2024.01.26

Communication System Band: GSM850; Frequency: 836.6 MHz; Duty Cycle: 1:2.08

Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.925$  S/m;  $\epsilon_r = 41.326$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.2°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.35, 10.35, 10.35); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch190/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.153 W/kg

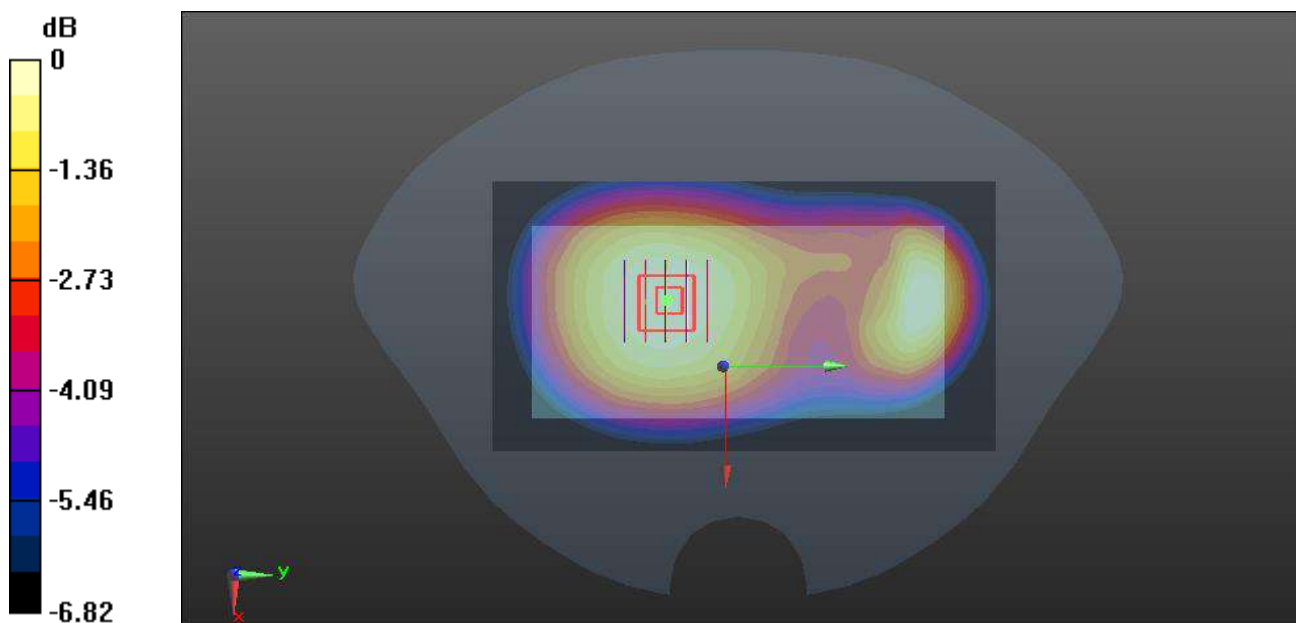
**Ch190/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.30 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.177 W/kg

**SAR(1 g) = 0.148 W/kg; SAR(10 g) = 0.116 W/kg**

Maximum value of SAR (measured) = 0.154 W/kg



0 dB = 0.154 W/kg

### Meas.3 Body Plane with Back Side 10mm on Middle Channel in GPRS850 4Slots mode with Antenna 0

Date: 2024.01.26

Communication System Band: GSM850; Frequency: 836.6 MHz; Duty Cycle: 1:2.08

Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.925$  S/m;  $\epsilon_r = 41.326$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.2°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.35, 10.35, 10.35); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch190/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.319 W/kg

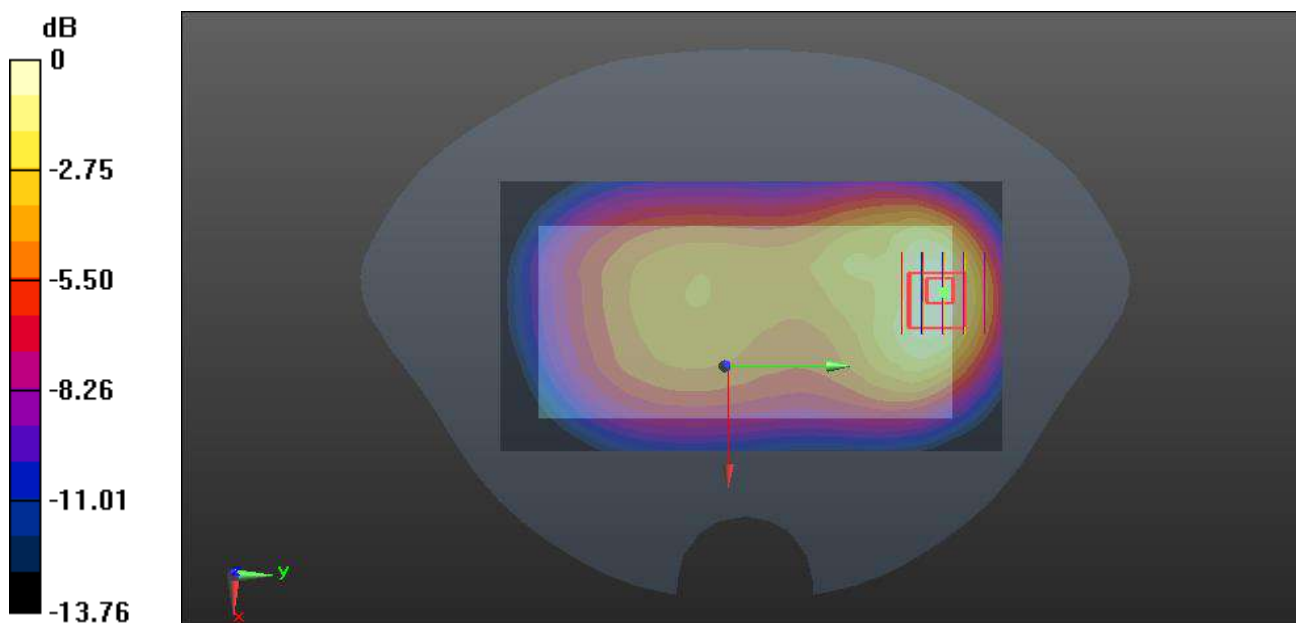
**Ch190/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.00 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.542 W/kg

**SAR(1 g) = 0.315 W/kg; SAR(10 g) = 0.191 W/kg**

Maximum value of SAR (measured) = 0.345 W/kg



0 dB = 0.345 W/kg

**Meas.4 Right Head with Tilt on Low Channel GPRS1900 4Slots mode with Antenna 1**

Date: 2024.02.03

Communication System Band: PCS1900; Frequency: 1850.2 MHz; Duty Cycle: 1:2.08

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.361$  S/m;  $\epsilon_r = 41.28$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 0.869 W/kg

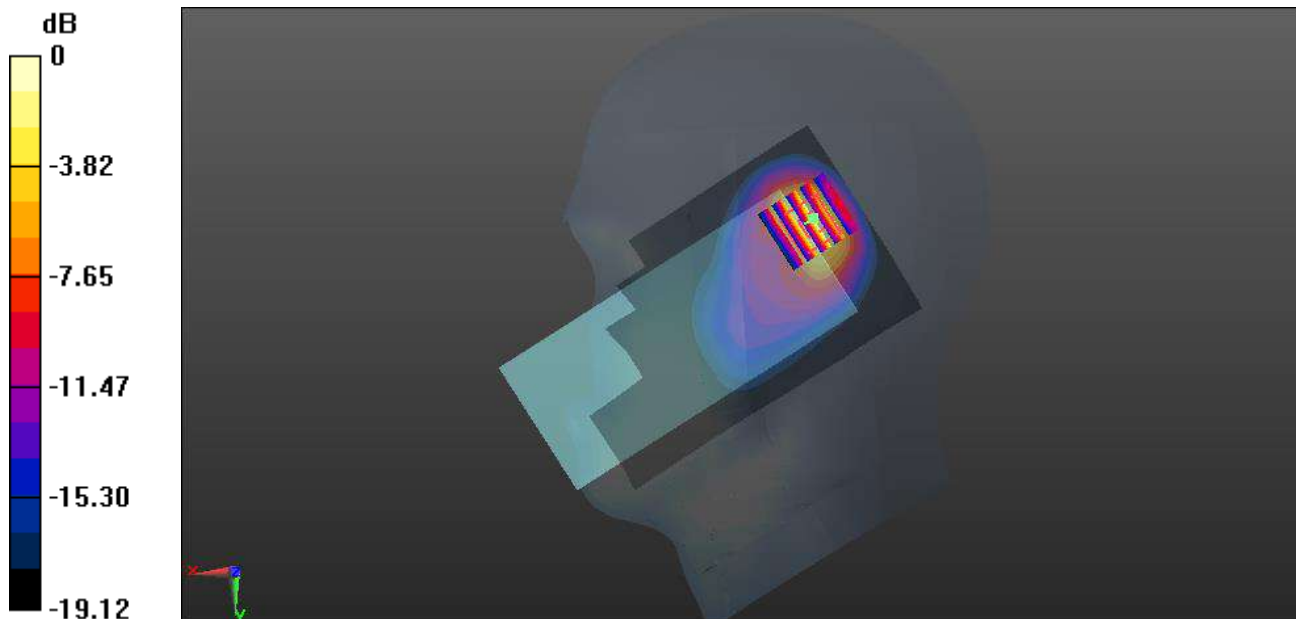
**Ch512/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.78 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.64 W/kg

**SAR(1 g) = 0.830 W/kg; SAR(10 g) = 0.389 W/kg**

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



0 dB = 0.979 W/kg



## Meas.5 Body Plane with Back Side 15mm on Middle Channel in GPRS1900 4Slots mode with Antenna 1

Date: 2024.02.03

Communication System Band: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:2.08

Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.421$  S/m;  $\epsilon_r = 39.916$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch661/Area Scan (71x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.436 W/kg

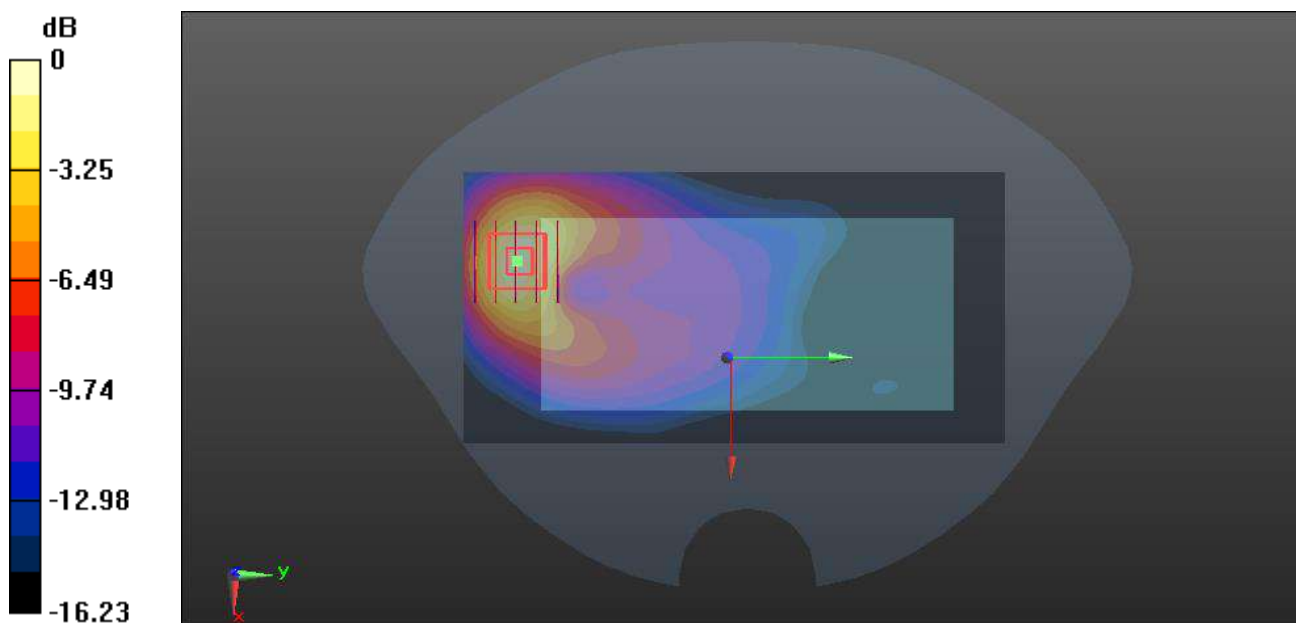
**Ch661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.970 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.656 W/kg

**SAR(1 g) = 0.401 W/kg; SAR(10 g) = 0.224 W/kg**

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



0 dB = 0.451 W/kg

**Meas.6 Body Plane with Top Edge 10mm on Middle Channel in GPRS1900 mode with Antenna 1**

Date: 2024.02.03

Communication System Band: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:2.08

Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.421$  S/m;  $\epsilon_r = 39.916$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch661/Area Scan (51x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.752 W/kg

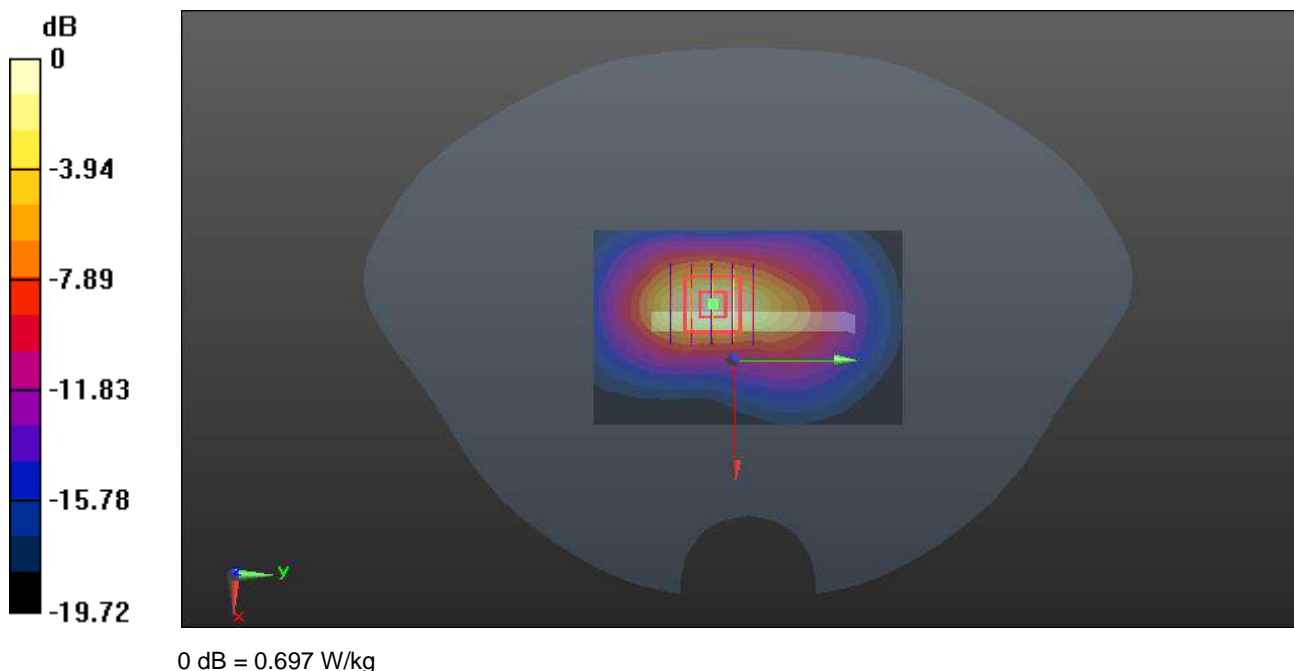
**Ch661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.56 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.11 W/kg

**SAR(1 g) = 0.609 W/kg; SAR(10 g) = 0.302 W/kg**

Maximum value of SAR (measured) = 0.697 W/kg



## Meas.7 Right Head with Tilt on High Channel WCDMA Band2 mode with Antenna 1

Date: 2024.02.01

Communication System Band: Band 2; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1907.6$  MHz;  $\sigma = 1.432$  S/m;  $\epsilon_r = 39.328$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch9538/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.04 W/kg

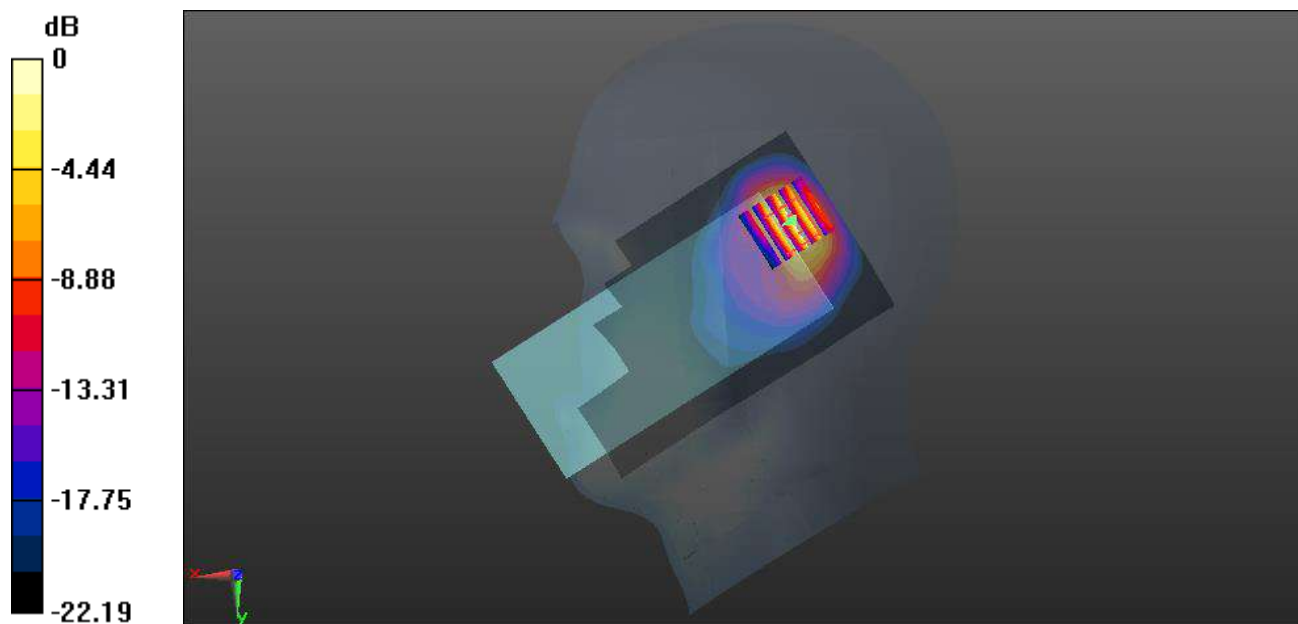
**Ch9538/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.43 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.11 W/kg

**SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.456 W/kg**

Maximum value of SAR (measured) = 1.18 W/kg



0 dB = 1.18 W/kg

## Meas.8 Body Plane with Back Side 15mm on Middle Channel in WCDMA Band2 mode with Antenna 0

Date: 2024.02.01

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

Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.366$  S/m;  $\epsilon_r = 40.48$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 0.497 W/kg

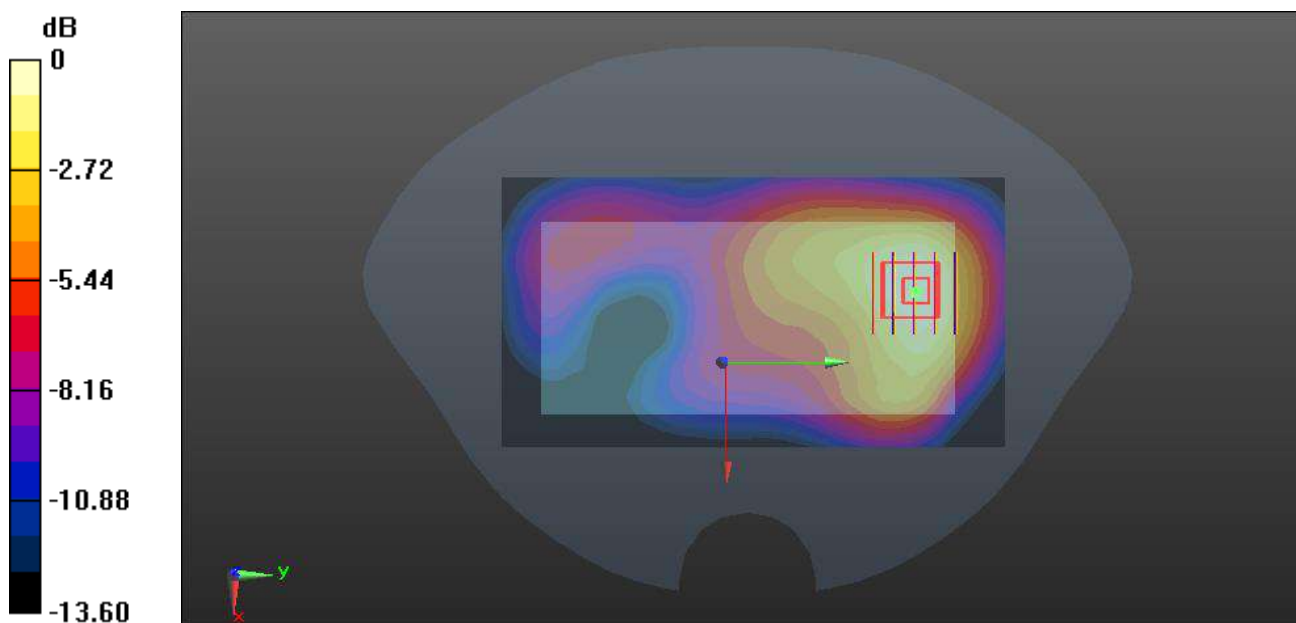
**Ch9400/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.416 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.682 W/kg

**SAR(1 g) = 0.457 W/kg; SAR(10 g) = 0.293 W/kg**

Maximum value of SAR (measured) = 0.494 W/kg



0 dB = 0.494 W/kg

## Meas.9 Body Plane with Top Edge 10mm on Middle Channel in WCDMA Band2 mode with Antenna 1

Date: 2024.02.01

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

Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.366$  S/m;  $\epsilon_r = 40.48$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch9400/Area Scan (51x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.781 W/kg

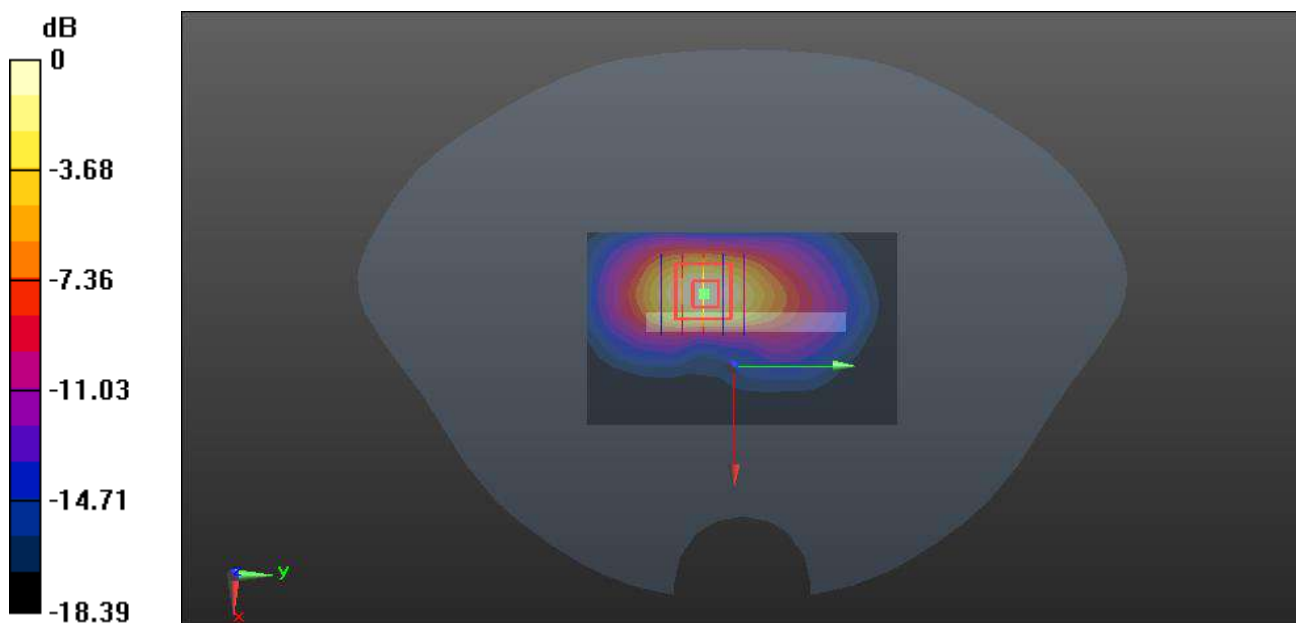
**Ch9400/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.35 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.20 W/kg

**SAR(1 g) = 0.654 W/kg; SAR(10 g) = 0.324 W/kg**

Maximum value of SAR (measured) = 0.751 W/kg



## Meas.10 Body Plane with Top Edge 0mm on Middle Channel in WCDMA Band2 mode with Antenna 1

Date: 2024.02.01

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

Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.366$  S/m;  $\epsilon_r = 40.48$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch9400/Area Scan (51x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 5.05 W/kg

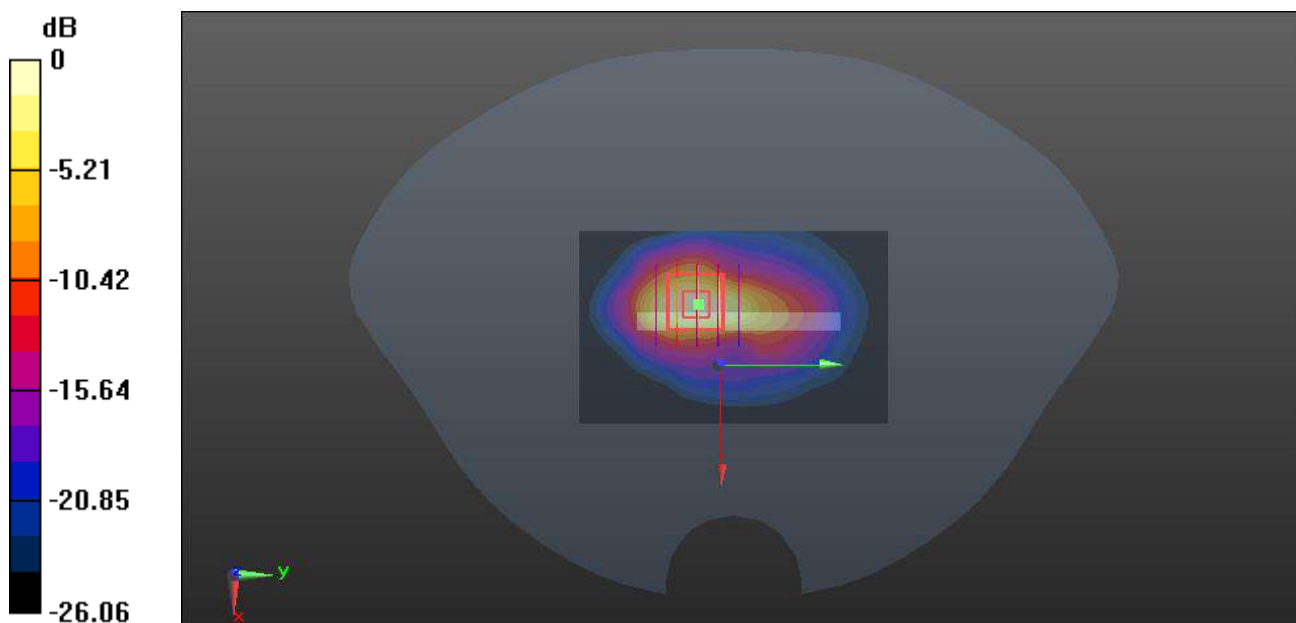
**Ch9400/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.84 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 8.91 W/kg

**SAR(1 g) = 3.83 W/kg; SAR(10 g) = 1.55 W/kg**

Maximum value of SAR (measured) = 4.99 W/kg



0 dB = 4.99 W/kg

## Meas.11 Right Head with Tilt on High Channel WCDMA Band4 mode with Antenna 1

Date: 2024.01.29

Communication System Band: Band 4; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1752.6$  MHz;  $\sigma = 1.393$  S/m;  $\epsilon_r = 39.519$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.99, 8.99, 8.99); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch1513/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.937 W/kg

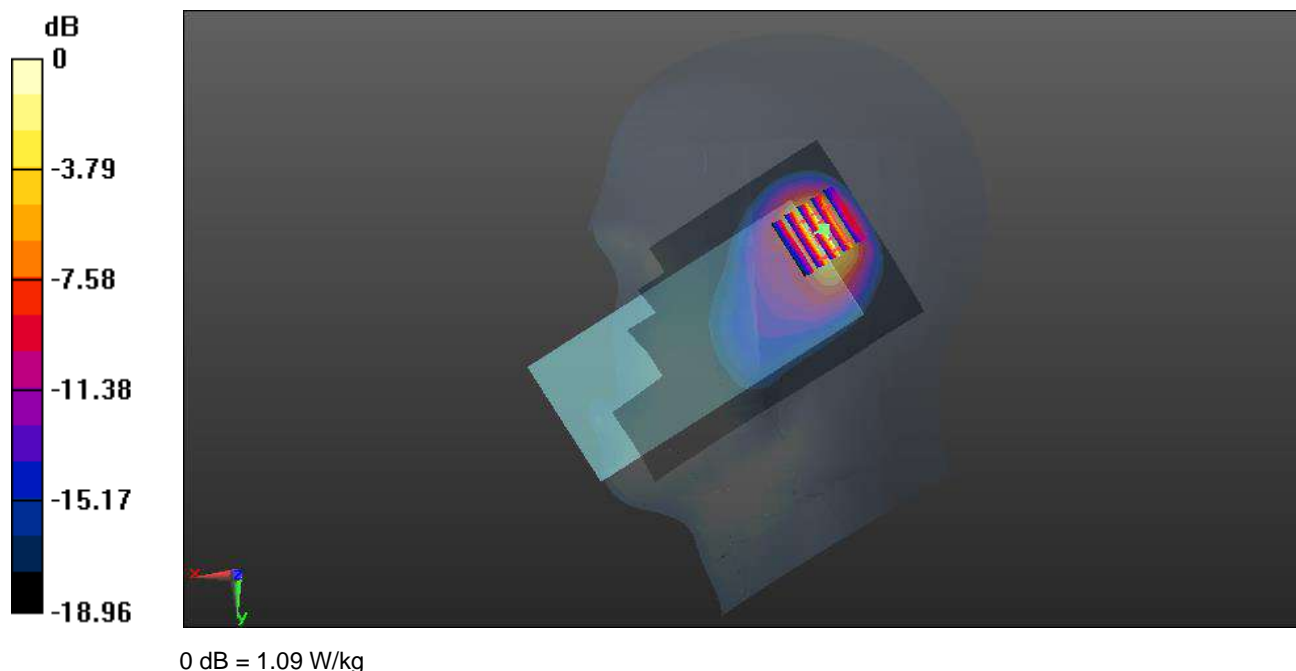
**Ch1513/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.95 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.80 W/kg

**SAR(1 g) = 0.916 W/kg; SAR(10 g) = 0.429 W/kg**

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



## Meas.12 Body Plane with Back Side 15mm on Low Channel in WCDMA Band4 mode with Antenna 0

Date: 2024.01.29

Communication System Band: Band 4; Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1712.4$  MHz;  $\sigma = 1.322$  S/m;  $\epsilon_r = 41.403$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.99, 8.99, 8.99); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch1312/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.347 W/kg

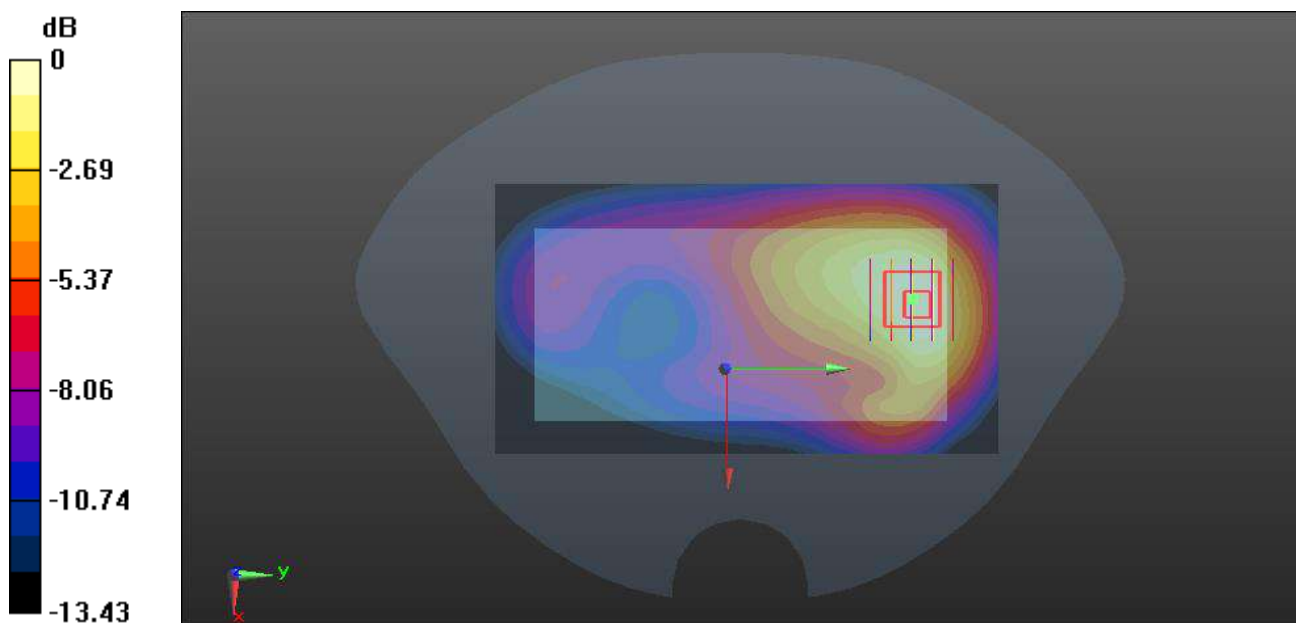
**Ch1312/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.862 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.452 W/kg

**SAR(1 g) = 0.314 W/kg; SAR(10 g) = 0.206 W/kg**

Maximum value of SAR (measured) = 0.337 W/kg



0 dB = 0.337 W/kg



### Meas.13 Body Plane with Bottom Edge 10mm on Low Channel in WCDMA Band4 mode with Antenna 0

Date: 2024.01.29

Communication System Band: Band 4; Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1712.4$  MHz;  $\sigma = 1.322$  S/m;  $\epsilon_r = 41.403$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.99, 8.99, 8.99); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch1312/Area Scan (51x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.632 W/kg

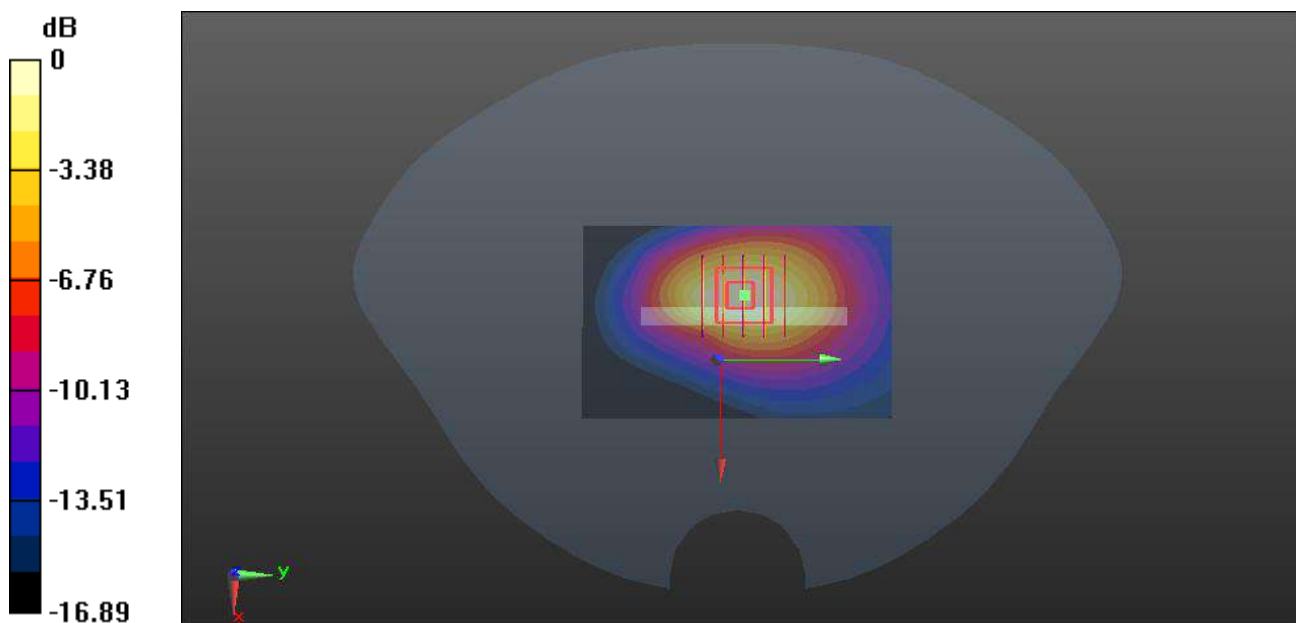
**Ch1312/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.45 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.892 W/kg

**SAR(1 g) = 0.552 W/kg; SAR(10 g) = 0.318 W/kg**

Maximum value of SAR (measured) = 0.610 W/kg



0 dB = 0.610 W/kg

**Meas.14 Right Head with Cheek on Middle Channel WCDMA Band5 mode with Antenna 1**

Date: 2024.01.27

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

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.895$  S/m;  $\epsilon_r = 41.376$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.35, 10.35, 10.35); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 0.933 W/kg

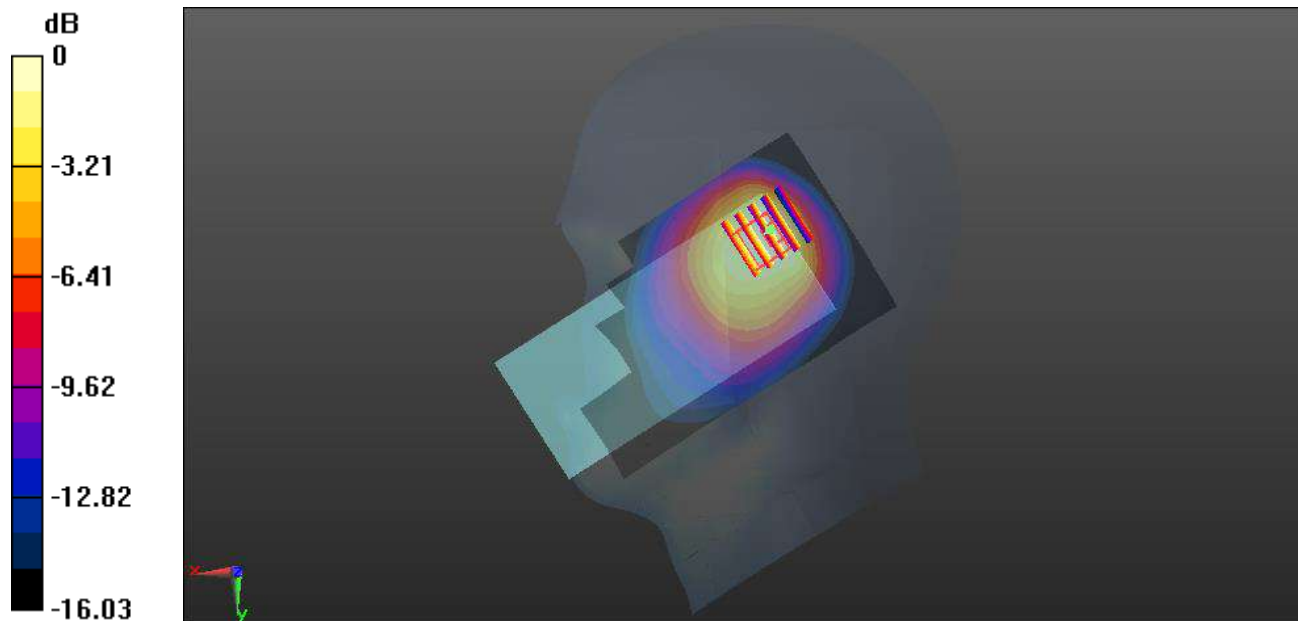
**Ch4182/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.21 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.24 W/kg

**SAR(1 g) = 0.685 W/kg; SAR(10 g) = 0.443 W/kg**

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



0 dB = 0.712 W/kg

## Meas.15 Body Plane with Back Side 15mm on Middle Channel in WCDMA Band5 mode with Antenna 0

Date: 2024.01.27

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

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.895$  S/m;  $\epsilon_r = 41.376$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.35, 10.35, 10.35); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 0.226 W/kg

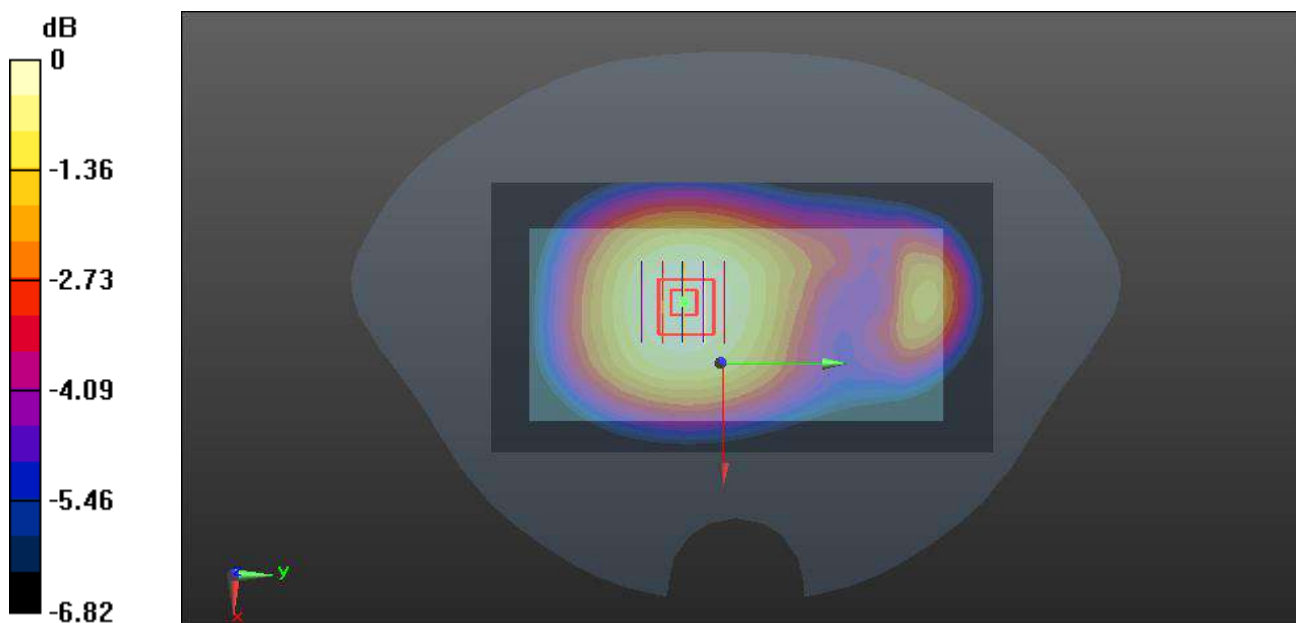
**Ch4182/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.87 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.258 W/kg

**SAR(1 g) = 0.216 W/kg; SAR(10 g) = 0.171 W/kg**

Maximum value of SAR (measured) = 0.225 W/kg



0 dB = 0.225 W/kg

## Meas.16 Body Plane with Back Side 10mm on Middle Channel in WCDMA Band5 mode with Antenna 0

Date: 2024.01.27

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

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.895$  S/m;  $\epsilon_r = 41.376$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.35, 10.35, 10.35); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 0.251 W/kg

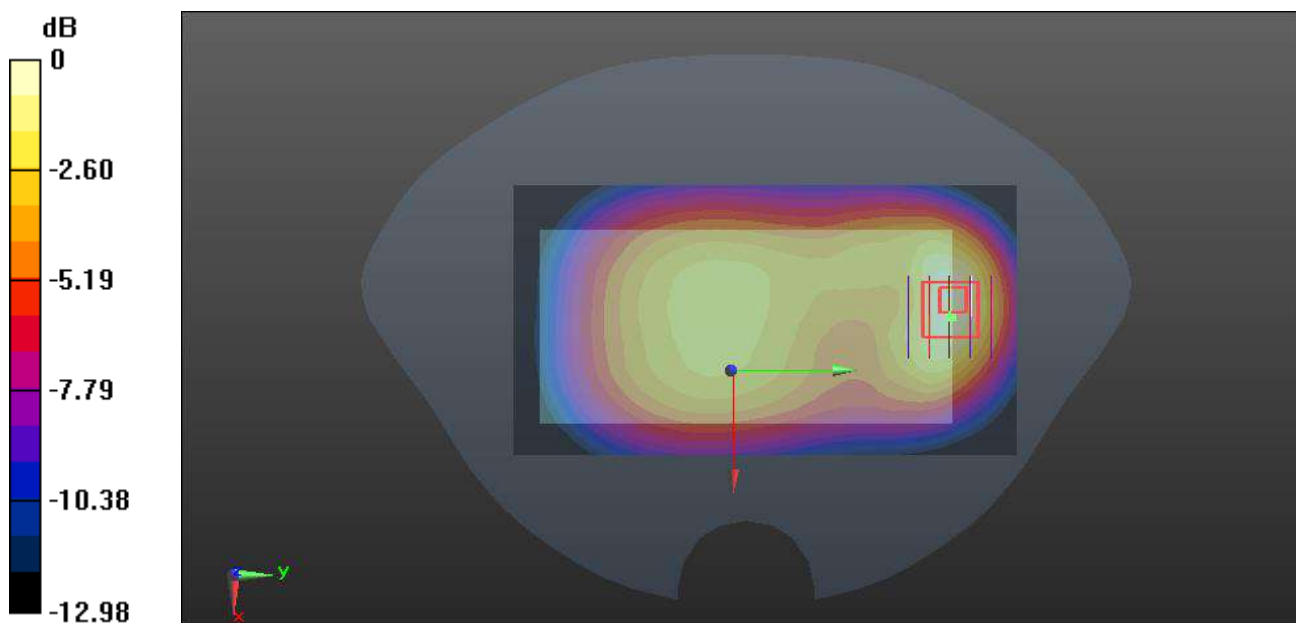
**Ch4182/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.43 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.428 W/kg

**SAR(1 g) = 0.249 W/kg; SAR(10 g) = 0.147 W/kg**

Maximum value of SAR (measured) = 0.276 W/kg



0 dB = 0.276 W/kg

### Meas.17 Right Head with Tilt on Low Channel LTE Band2 mode with Antenna 1

Date: 2024.02.02

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

Medium parameters used (interpolated):  $f = 1860$  MHz;  $\sigma = 1.377$  S/m;  $\epsilon_r = 40.928$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 0.837 W/kg

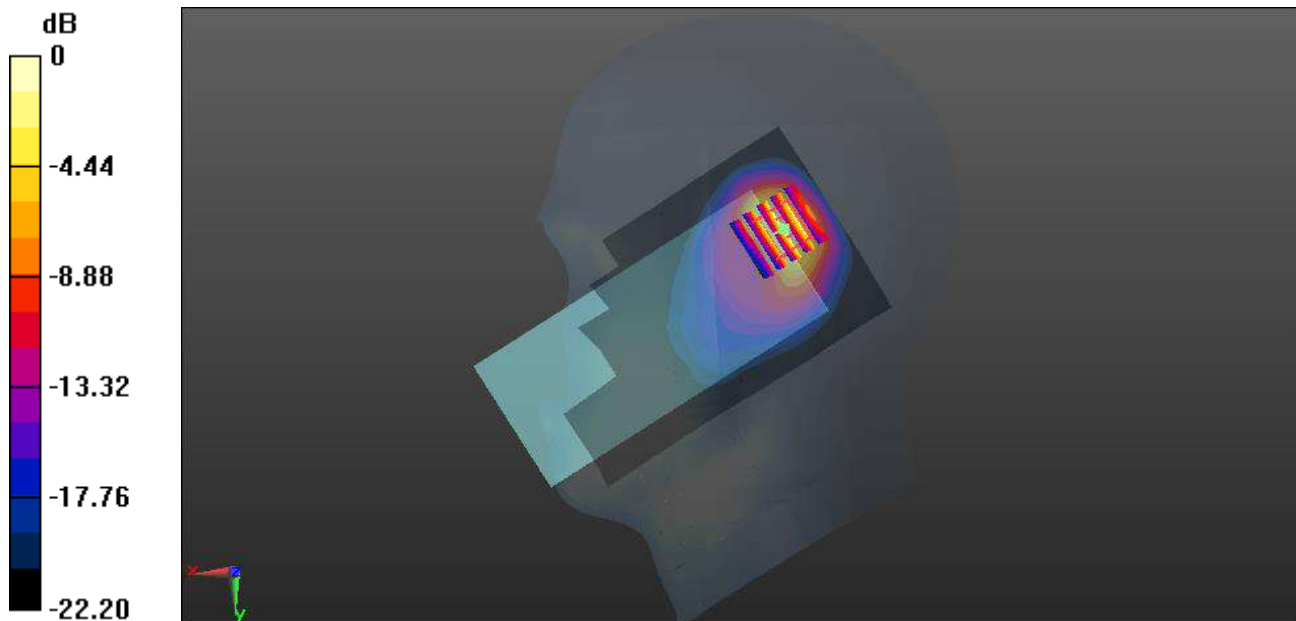
**Ch18700/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.48 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.56 W/kg

**SAR(1 g) = 0.760 W/kg; SAR(10 g) = 0.342 W/kg**

Maximum value of SAR (measured) = 0.922 W/kg



0 dB = 0.922 W/kg

## Meas.18 Body Plane with Back Side 15mm on High Channel in LTE Band2 mode with Antenna 0

Date: 2024.02.02

Communication System Band: Band 2; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.418$  S/m;  $\epsilon_r = 40.592$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch19100/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

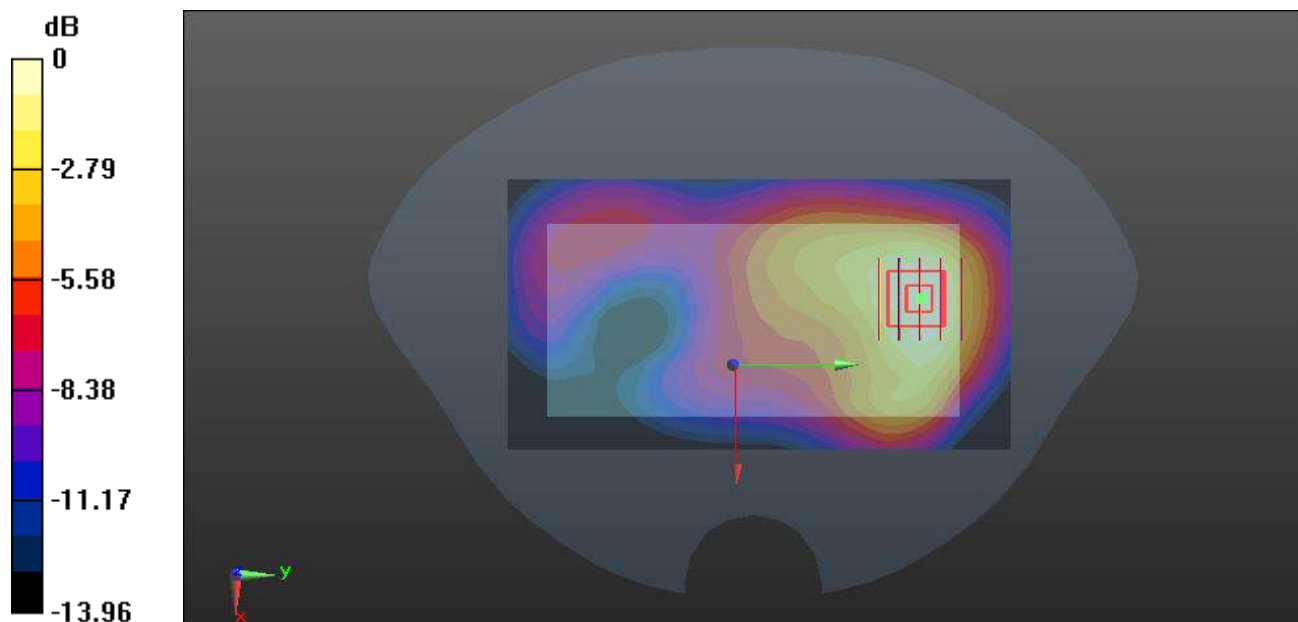
**Ch19100/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.494 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.633 W/kg

**SAR(1 g) = 0.422 W/kg; SAR(10 g) = 0.270 W/kg**

Maximum value of SAR (measured) = 0.456 W/kg



## Meas.19 Body Plane with Bottom Edge 10mm on High Channel in LTE Band2 mode with Antenna 0

Date: 2024.02.02

Communication System Band: Band 2; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.418$  S/m;  $\epsilon_r = 40.592$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch19100/Area Scan (51x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.723 W/kg

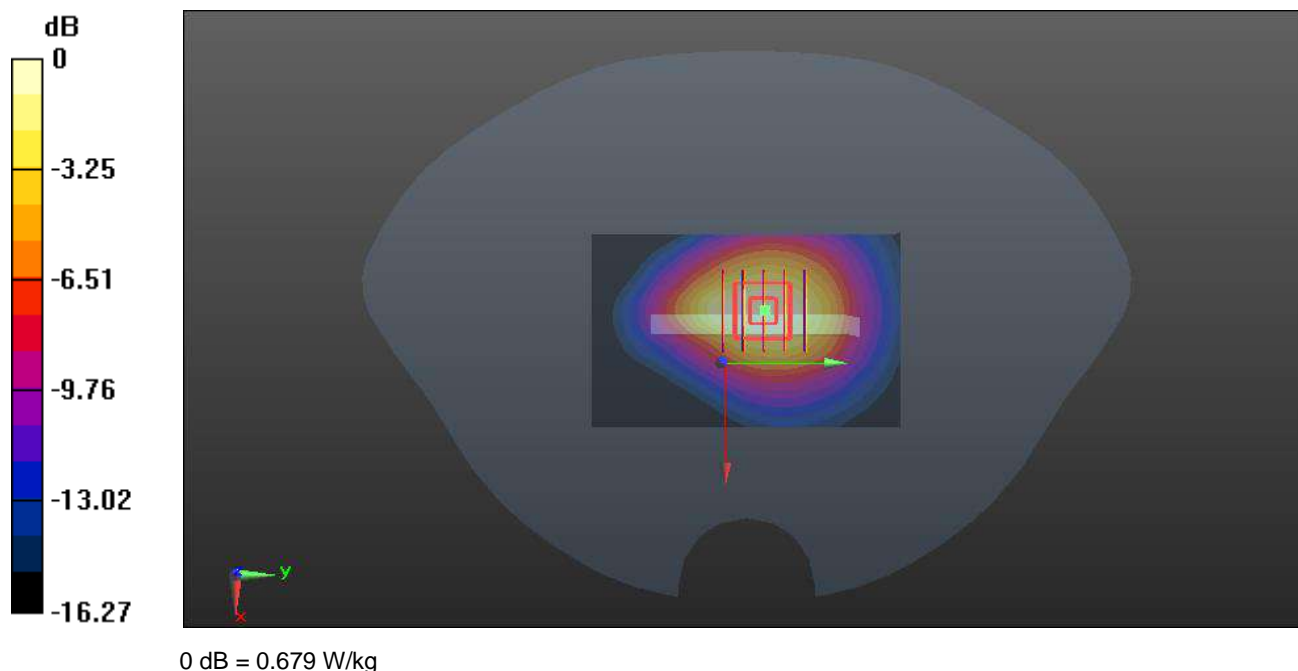
**Ch19100/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.84 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.01 W/kg

**SAR(1 g) = 0.621 W/kg; SAR(10 g) = 0.366 W/kg**

Maximum value of SAR (measured) = 0.679 W/kg



## Meas.20 Body Plane with Top Edge 0mm on High Channel in LTE Band2 mode with Antenna 1

Date: 2024.02.02

Communication System Band: Band 2; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.418$  S/m;  $\epsilon_r = 40.592$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.56, 8.56, 8.56); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch19100/Area Scan (51x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 5.79 W/kg

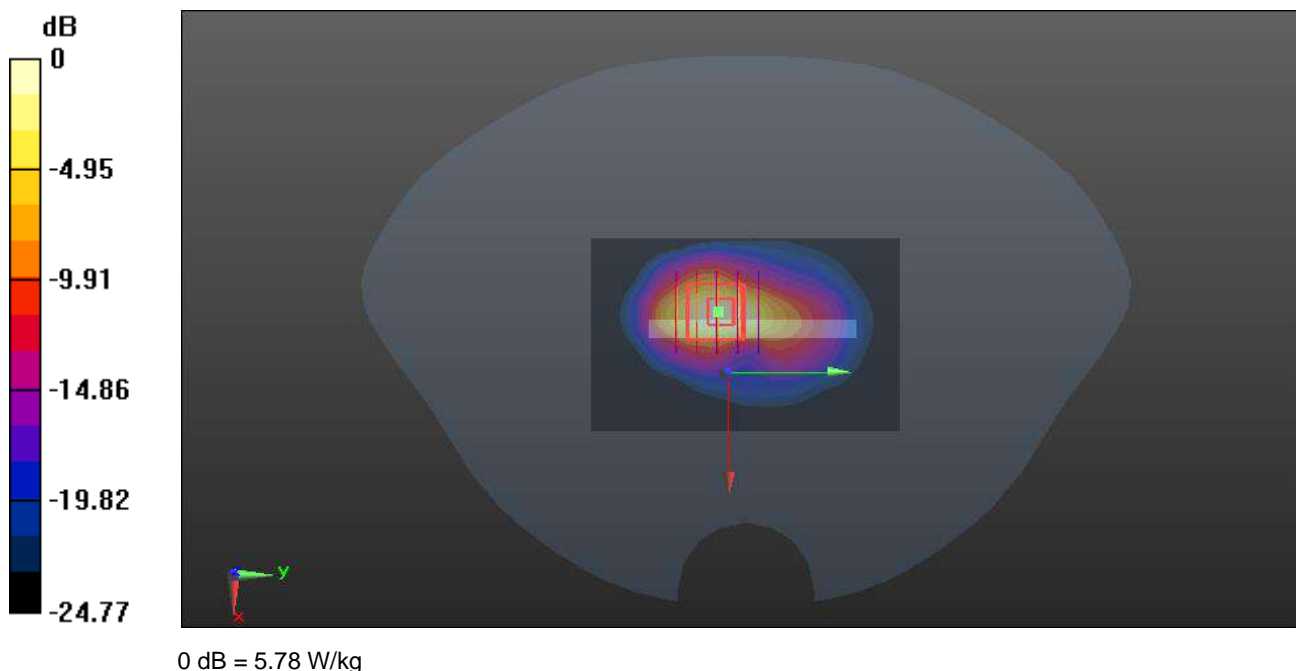
**Ch19100/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 38.35 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 10.5 W/kg

**SAR(1 g) = 4.44 W/kg; SAR(10 g) = 1.78 W/kg**

Maximum value of SAR (measured) = 5.78 W/kg





**Meas.21 Right Head with Tilt on Middle Channel LTE Band4 mode with Antenna 1**

Date: 2024.01.30

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

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  S/m;  $\epsilon_r = 39.947$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.99, 8.99, 8.99); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 0.746 W/kg

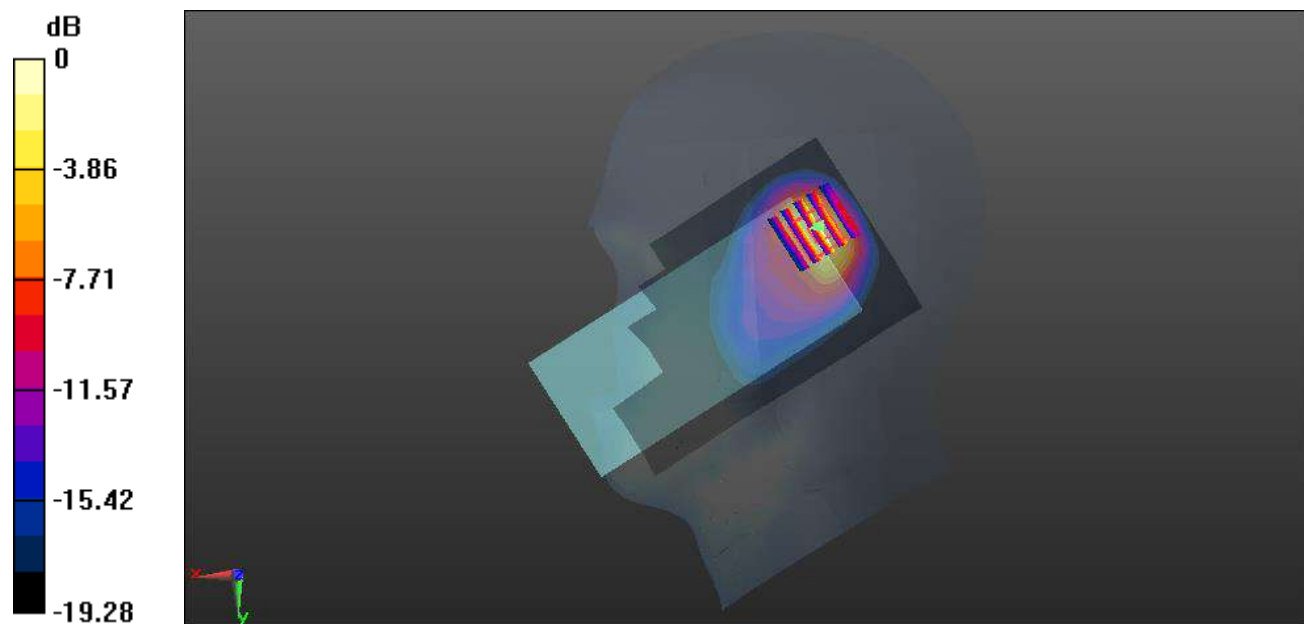
**Ch20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.92 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.40 W/kg

**SAR(1 g) = 0.704 W/kg; SAR(10 g) = 0.325 W/kg**

Maximum value of SAR (measured) = 0.826 W/kg



0 dB = 0.826 W/kg

## Meas.22 Body Plane with Back Side 15mm on Middle Channel in LTE Band4 mode with Antenna 0

Date: 2024.01.30

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

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  S/m;  $\epsilon_r = 39.947$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.99, 8.99, 8.99); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 0.253 W/kg

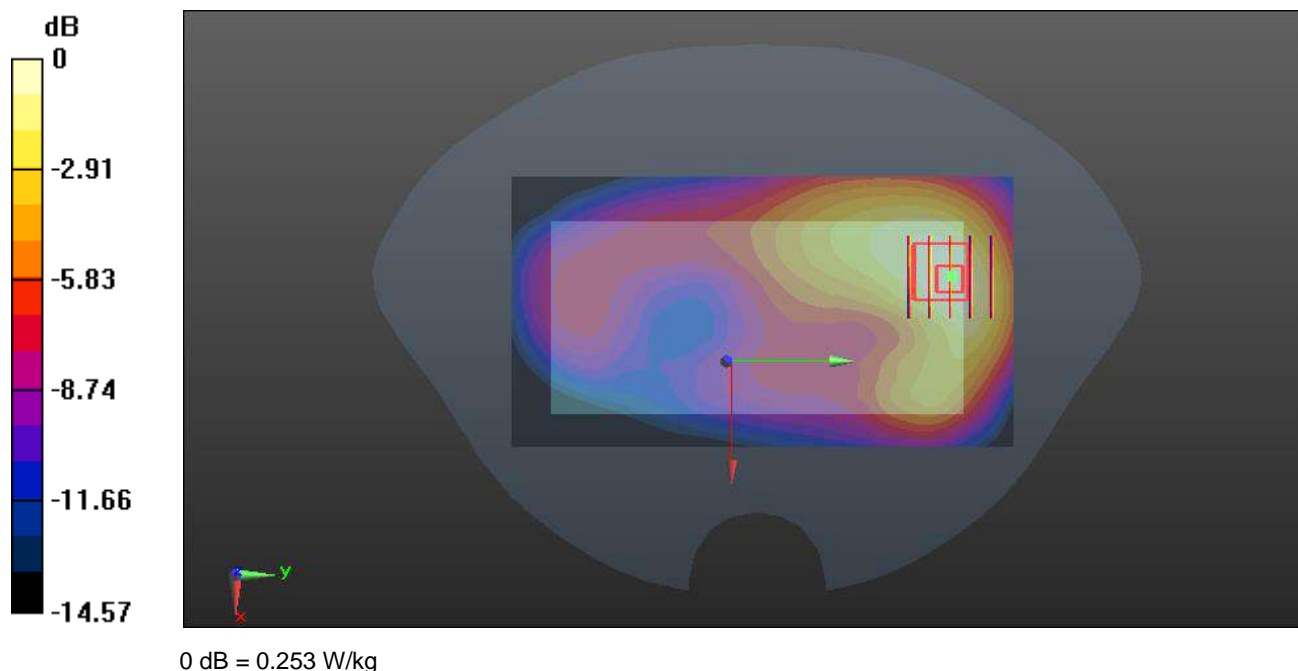
**Ch20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.413 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.339 W/kg

**SAR(1 g) = 0.235 W/kg; SAR(10 g) = 0.154 W/kg**

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



## Meas.23 Body Plane with Bottom Edge 10mm on Middle Channel in LTE Band4 mode with Antenna 0

Date: 2024.01.30

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

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  S/m;  $\epsilon_r = 39.947$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.99, 8.99, 8.99); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch20175/Area Scan (51x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.694 W/kg

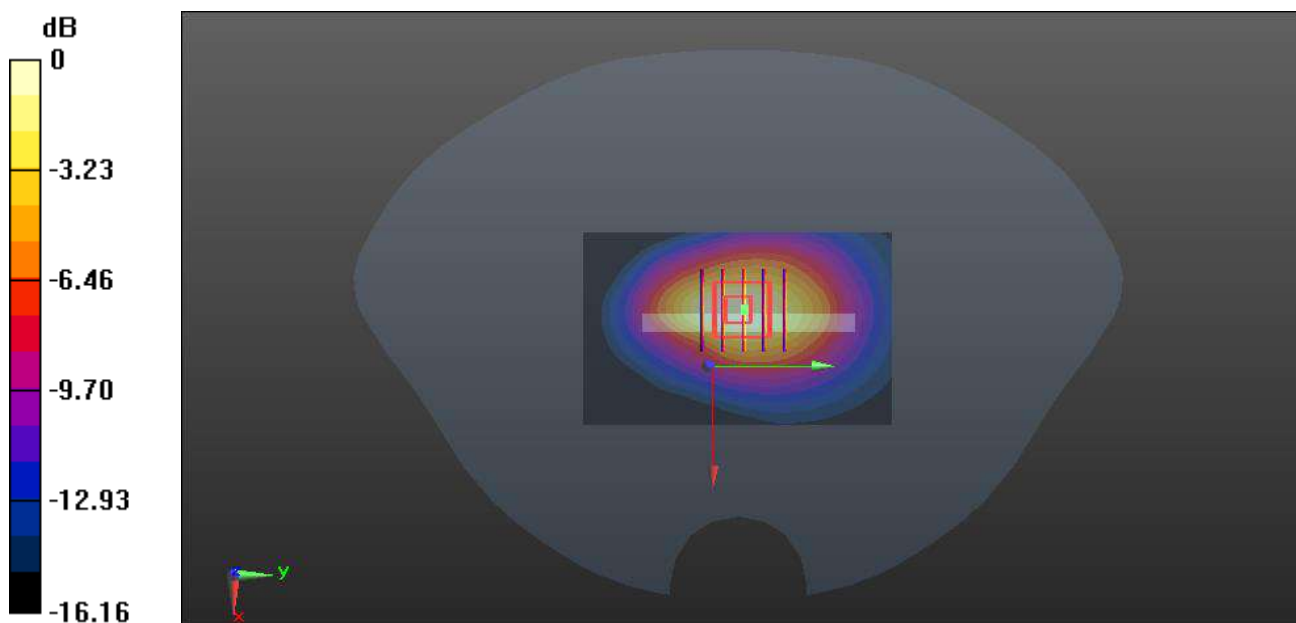
**Ch20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.59 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.03 W/kg

**SAR(1 g) = 0.622 W/kg; SAR(10 g) = 0.355 W/kg**

Maximum value of SAR (measured) = 0.680 W/kg



0 dB = 0.680 W/kg

## Meas.24 Right Head with Cheek on Middle Channel LTE Band5 mode with Antenna 1

Date: 2024.01.28

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

Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.922$  S/m;  $\epsilon_r = 41.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.35, 10.35, 10.35); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 0.943 W/kg

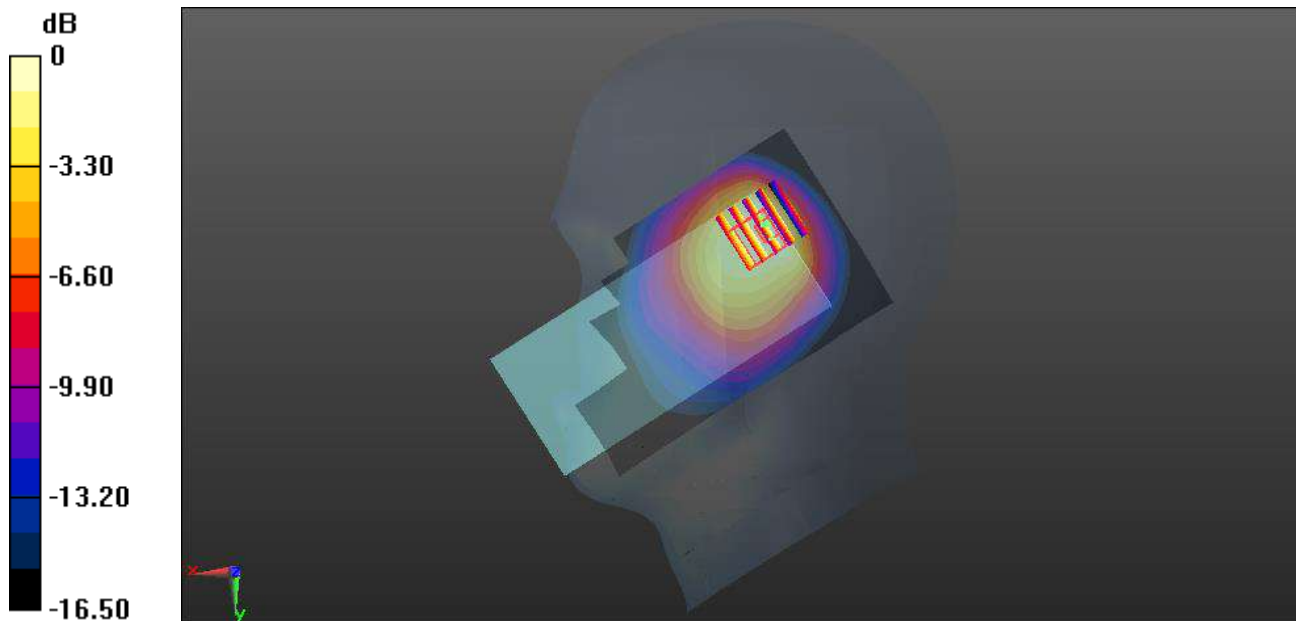
**Ch20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.48 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.24 W/kg

**SAR(1 g) = 0.679 W/kg; SAR(10 g) = 0.441 W/kg**

Maximum value of SAR (measured) = 0.718 W/kg



0 dB = 0.718 W/kg

## Meas.25 Body Plane with Back Side 15mm on Middle Channel in LTE Band5 mode with Antenna 0

Date: 2024.01.28

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

Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.922$  S/m;  $\epsilon_r = 41.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.35, 10.35, 10.35); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 0.218 W/kg

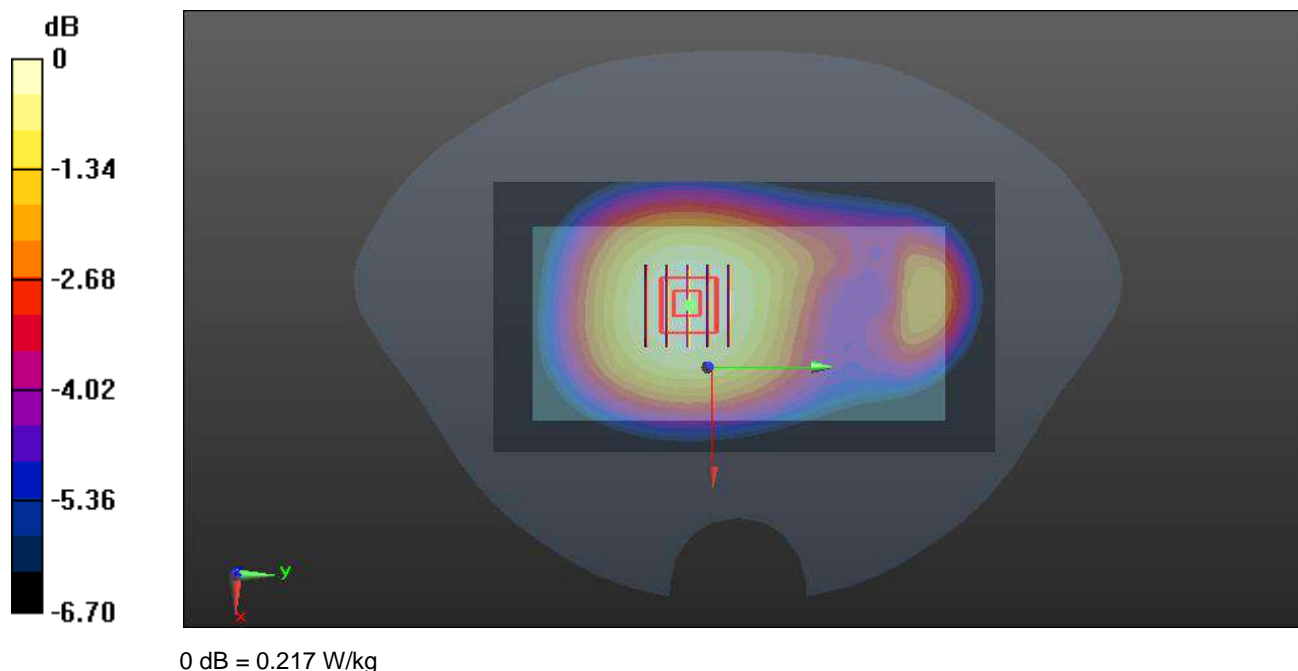
**Ch20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.30 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.249 W/kg

**SAR(1 g) = 0.207 W/kg; SAR(10 g) = 0.164 W/kg**

Maximum value of SAR (measured) = 0.217 W/kg



## Meas.26 Body Plane with Back Side 10mm on Middle Channel in LTE Band5 mode with Antenna 0

Date: 2024.01.28

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

Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.922$  S/m;  $\epsilon_r = 41.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.35, 10.35, 10.35); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 0.260 W/kg

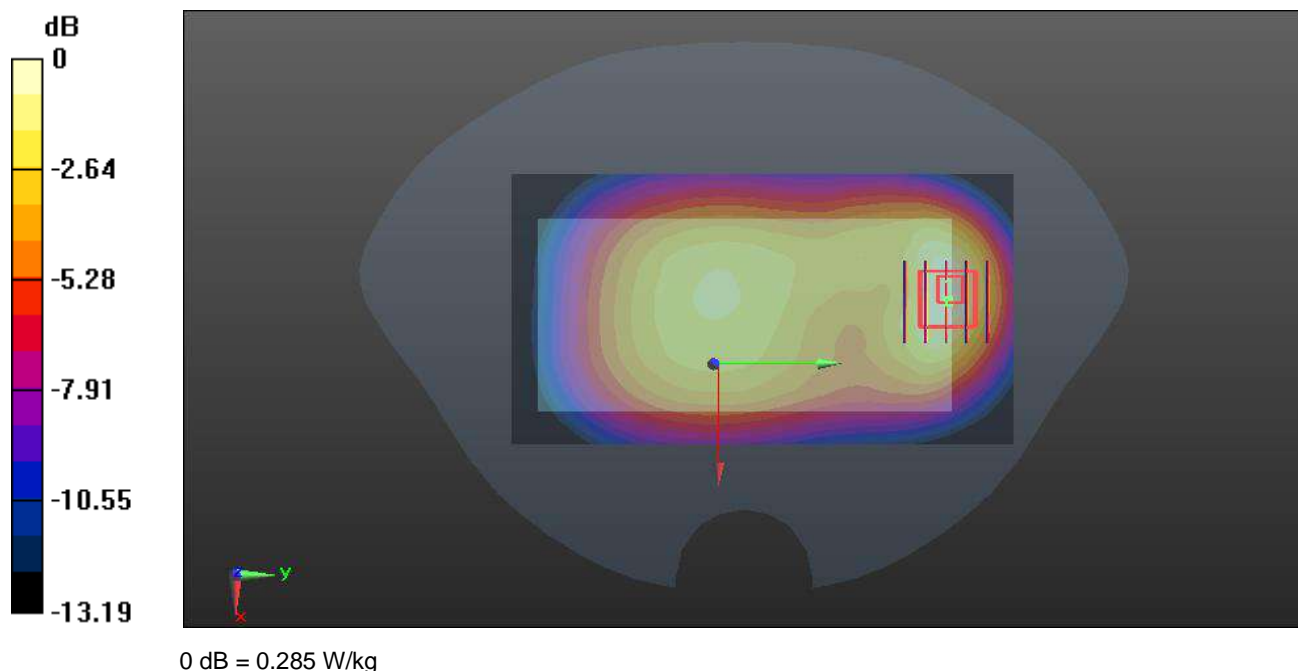
**Ch20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.22 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.446 W/kg

**SAR(1 g) = 0.258 W/kg; SAR(10 g) = 0.152 W/kg**

Maximum value of SAR (measured) = 0.285 W/kg



## Meas.27 Right Head with Tilt on Middle Channel LTE Band7 mode with Antenna 1

Date: 2024.02.07

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

Medium parameters used (interpolated):  $f = 2535$  MHz;  $\sigma = 1.904$  S/m;  $\epsilon_r = 39.92$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.64, 7.64, 7.64); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 0.629 W/kg

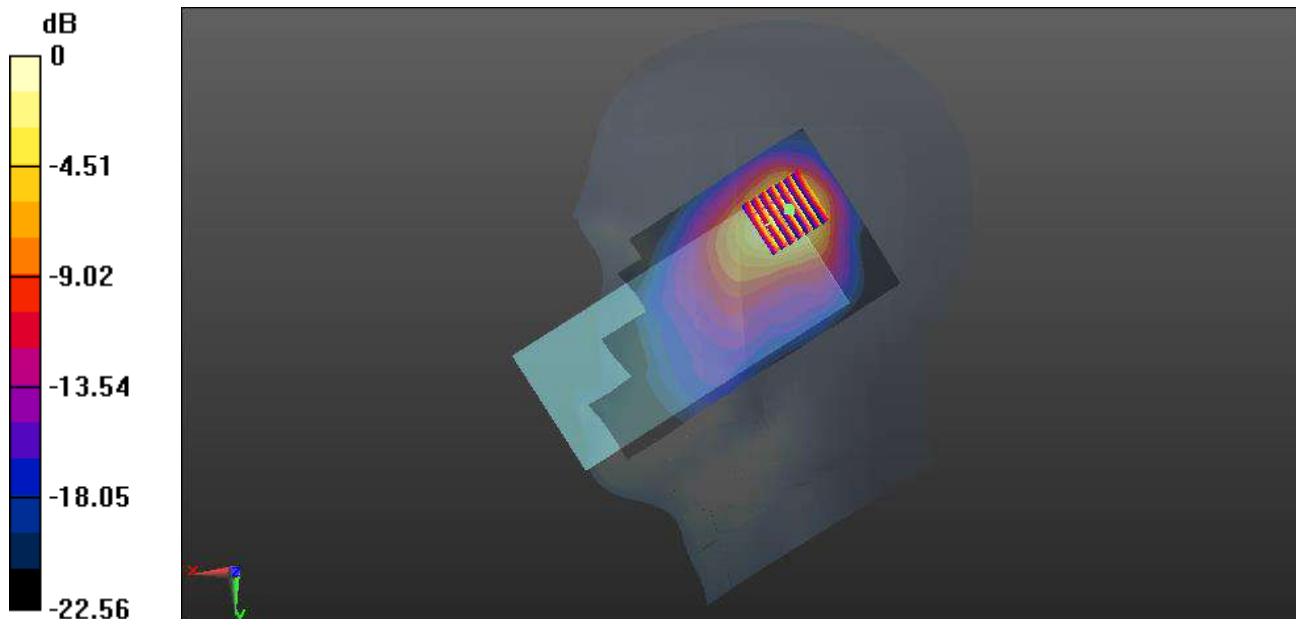
**Ch21100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.885 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.05 W/kg

**SAR(1 g) = 0.470 W/kg; SAR(10 g) = 0.248 W/kg**

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



0 dB = 0.554 W/kg

## Meas.28 Body Plane with Back Side 15mm on Middle Channel in LTE Band7 mode with Antenna 0

Date: 2024.02.07

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

Medium parameters used (interpolated):  $f = 2535$  MHz;  $\sigma = 1.904$  S/m;  $\epsilon_r = 39.92$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.64, 7.64, 7.64); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 0.218 W/kg

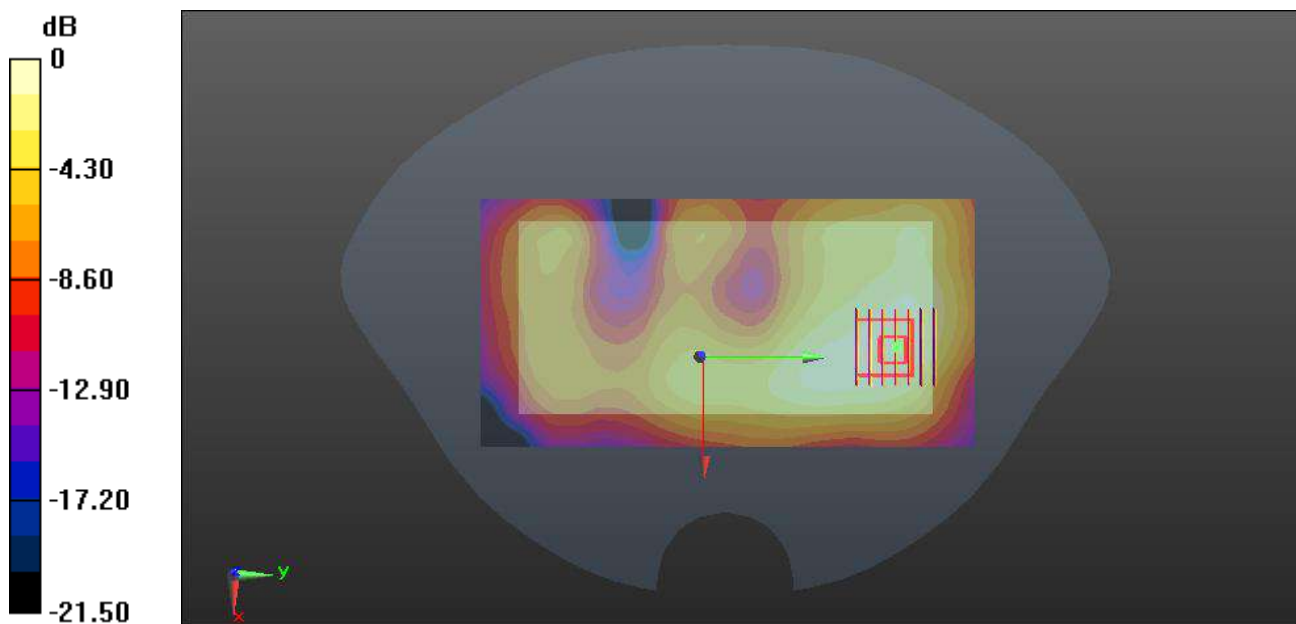
**Ch21100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.832 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.354 W/kg

**SAR(1 g) = 0.202 W/kg; SAR(10 g) = 0.117 W/kg**

Maximum value of SAR (measured) = 0.221 W/kg



0 dB = 0.221 W/kg



## Meas.29 Body Plane with Back Side 10mm on Middle Channel in LTE Band7 mode with Antenna 0

Date: 2024.02.07

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

Medium parameters used (interpolated):  $f = 2535$  MHz;  $\sigma = 1.904$  S/m;  $\epsilon_r = 39.92$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.64, 7.64, 7.64); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 0.460 W/kg

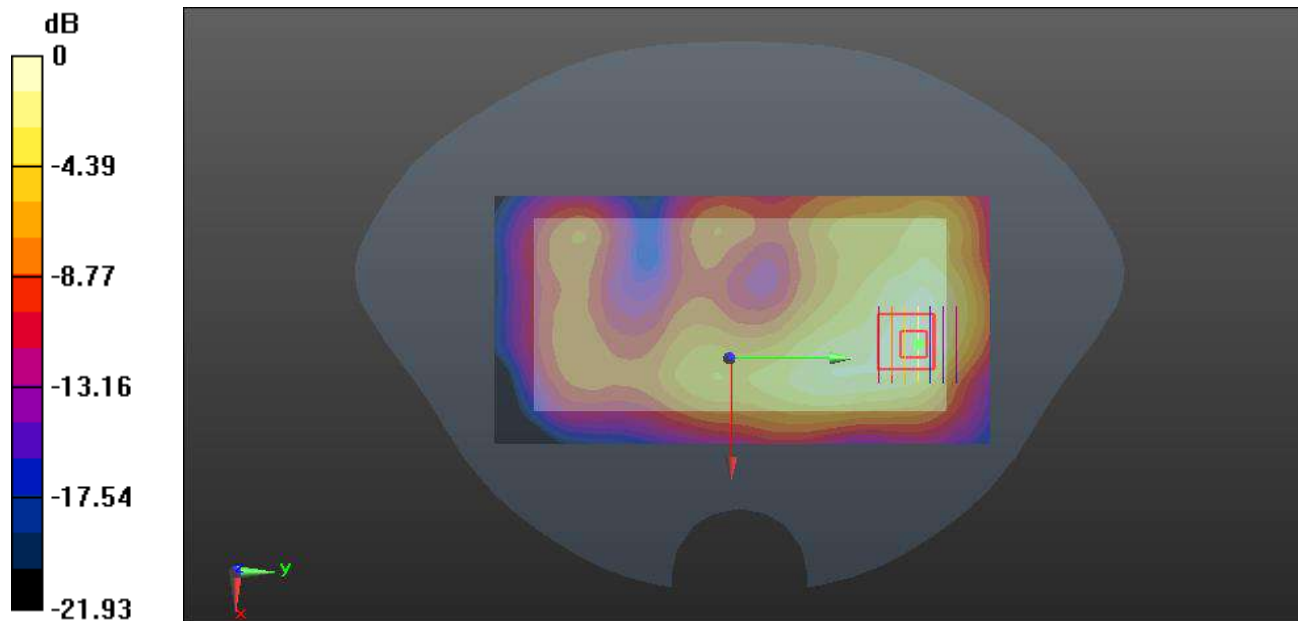
**Ch21100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.088 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.732 W/kg

**SAR(1 g) = 0.415 W/kg; SAR(10 g) = 0.228 W/kg**

Maximum value of SAR (measured) = 0.463 W/kg



0 dB = 0.463 W/kg

**Meas.30 Right Head with Cheek on Middle Channel LTE Band13 mode with Antenna 1**

Date: 2024.01.25

Communication System Band: Band 13; Frequency: 782 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 782 \text{ MHz}$ ;  $\sigma = 0.925 \text{ S/m}$ ;  $\epsilon_r = 41.579$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Ambient Temperature:22.6°C Liquid Temperature:21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.54, 10.54, 10.54); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch23230/Area Scan (71x131x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.718 W/kg

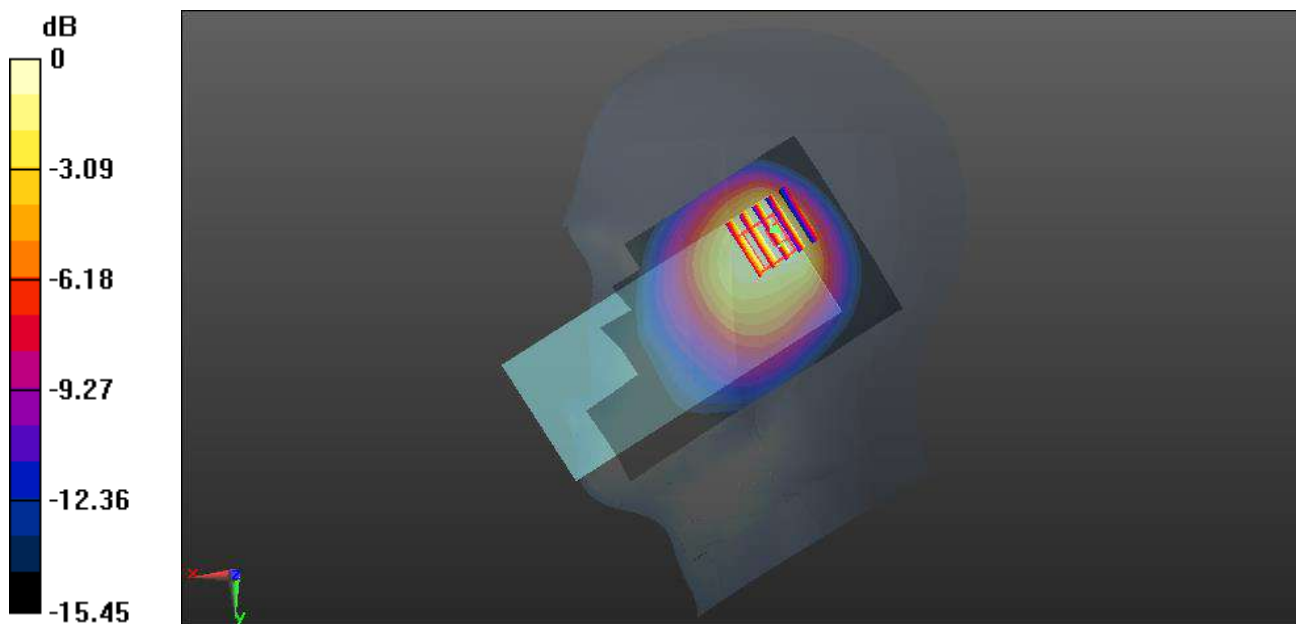
**Ch23230/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 21.38 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.994 W/kg

**SAR(1 g) = 0.529 W/kg; SAR(10 g) = 0.340 W/kg**

Maximum value of SAR (measured) = 0.551 W/kg



0 dB = 0.551 W/kg

## Meas.31 Body Plane with Back Side 15mm on Middle Channel in LTE Band13 mode with Antenna 0

Date: 2024.01.25

Communication System Band: Band 13; Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 782$  MHz;  $\sigma = 0.925$  S/m;  $\epsilon_r = 41.579$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.6°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.54, 10.54, 10.54); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch23230/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

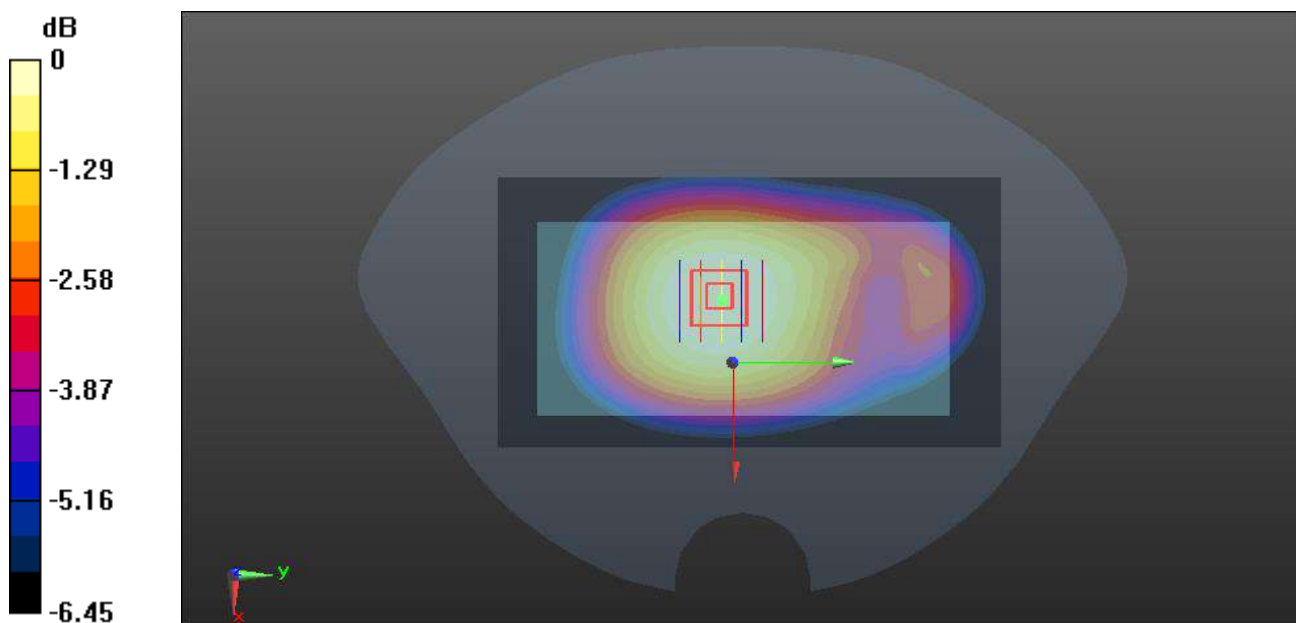
**Ch23230/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.08 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.221 W/kg

**SAR(1 g) = 0.186 W/kg; SAR(10 g) = 0.149 W/kg**

Maximum value of SAR (measured) = 0.192 W/kg



0 dB = 0.192 W/kg

## Meas.32 Body Plane with Right Edge 10mm on Middle Channel in LTE Band13 mode with Antenna 0

Date: 2024.01.25

Communication System Band: Band 13; Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 782$  MHz;  $\sigma = 0.925$  S/m;  $\epsilon_r = 41.579$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.6°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.54, 10.54, 10.54); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch23230/Area Scan (51x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.235 W/kg

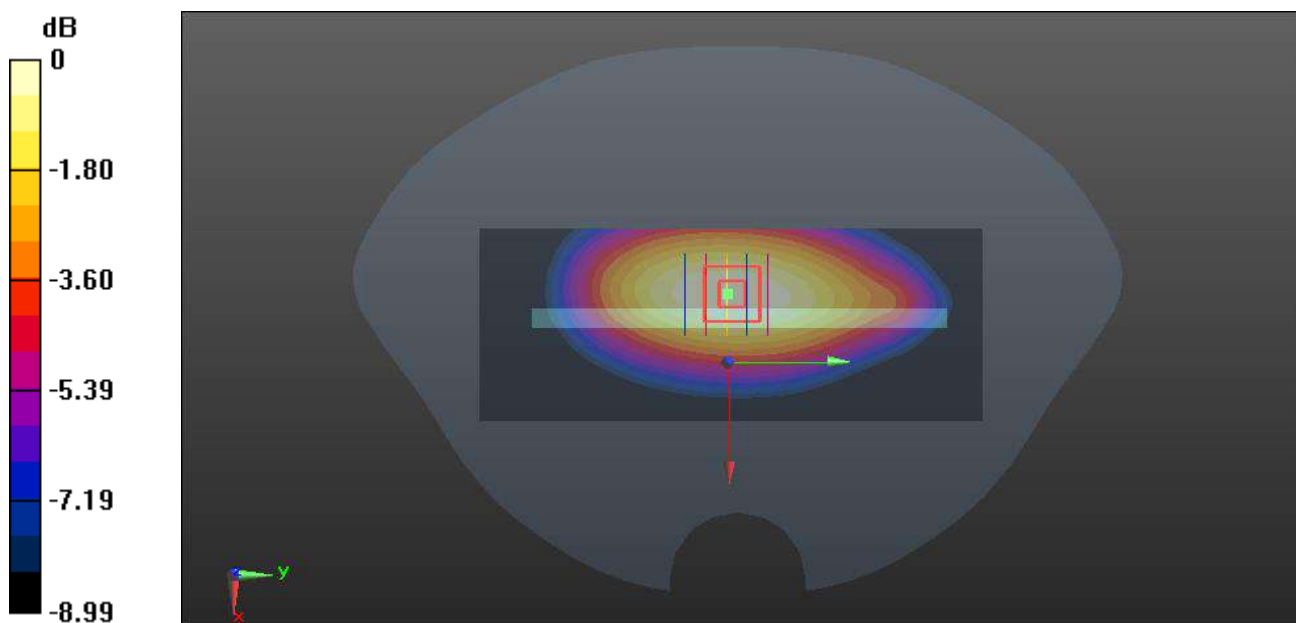
**Ch23230/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.04 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.318 W/kg

**SAR(1 g) = 0.219 W/kg; SAR(10 g) = 0.152 W/kg**

Maximum value of SAR (measured) = 0.232 W/kg



0 dB = 0.232 W/kg

**Meas.33 Right Head with Tilt on High Channel LTE Band66 mode with Antenna 1**

Date: 2024.01.31

Communication System Band: Band 66; Frequency: 1770 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1770$  MHz;  $\sigma = 1.413$  S/m;  $\epsilon_r = 40.473$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature: 22.6°C Liquid Temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.99, 8.99, 8.99); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch132572/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.747 W/kg

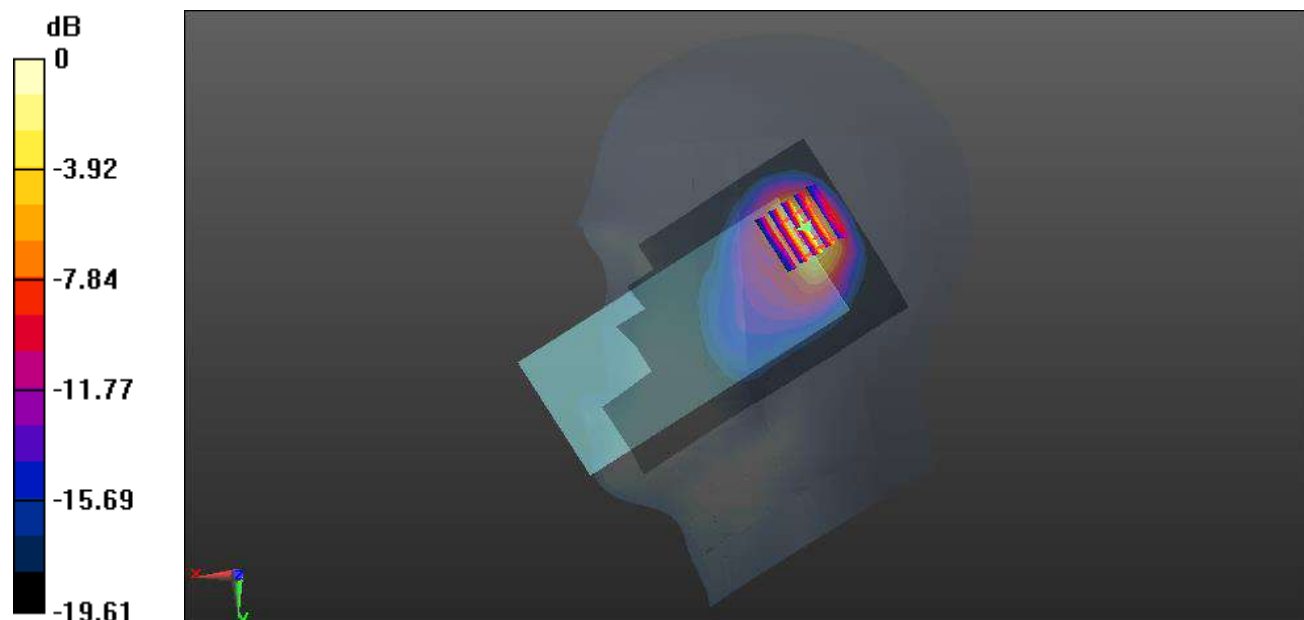
**Ch132572/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.55 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.42 W/kg

**SAR(1 g) = 0.717 W/kg; SAR(10 g) = 0.330 W/kg**

Maximum value of SAR (measured) = 0.840 W/kg



0 dB = 0.840 W/kg

## Meas.34 Body Plane with Back Side 15mm on Middle Channel in LTE Band66 mode with Antenna 0

Date: 2024.01.31

Communication System Band: Band 66; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1745$  MHz;  $\sigma = 1.34$  S/m;  $\epsilon_r = 40.813$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.6°C Liquid Temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.99, 8.99, 8.99); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch132322/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

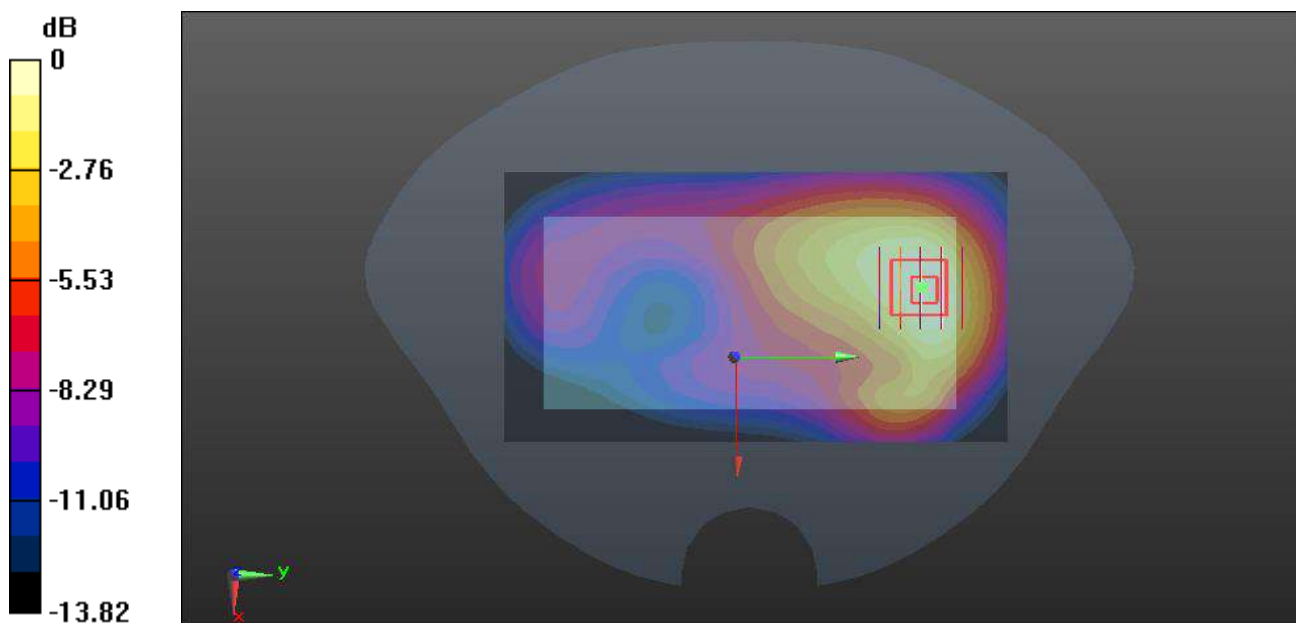
**Ch132322/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.230 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.498 W/kg

**SAR(1 g) = 0.345 W/kg; SAR(10 g) = 0.226 W/kg**

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



0 dB = 0.372 W/kg

## Meas.35 Body Plane with Bottom Edge 10mm on High Channel in LTE Band66 mode with Antenna 0

Date: 2024.01.31

Communication System Band: Band 66; Frequency: 1770 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1770$  MHz;  $\sigma = 1.413$  S/m;  $\epsilon_r = 40.473$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.6°C Liquid Temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.99, 8.99, 8.99); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch132572/Area Scan (51x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.814 W/kg

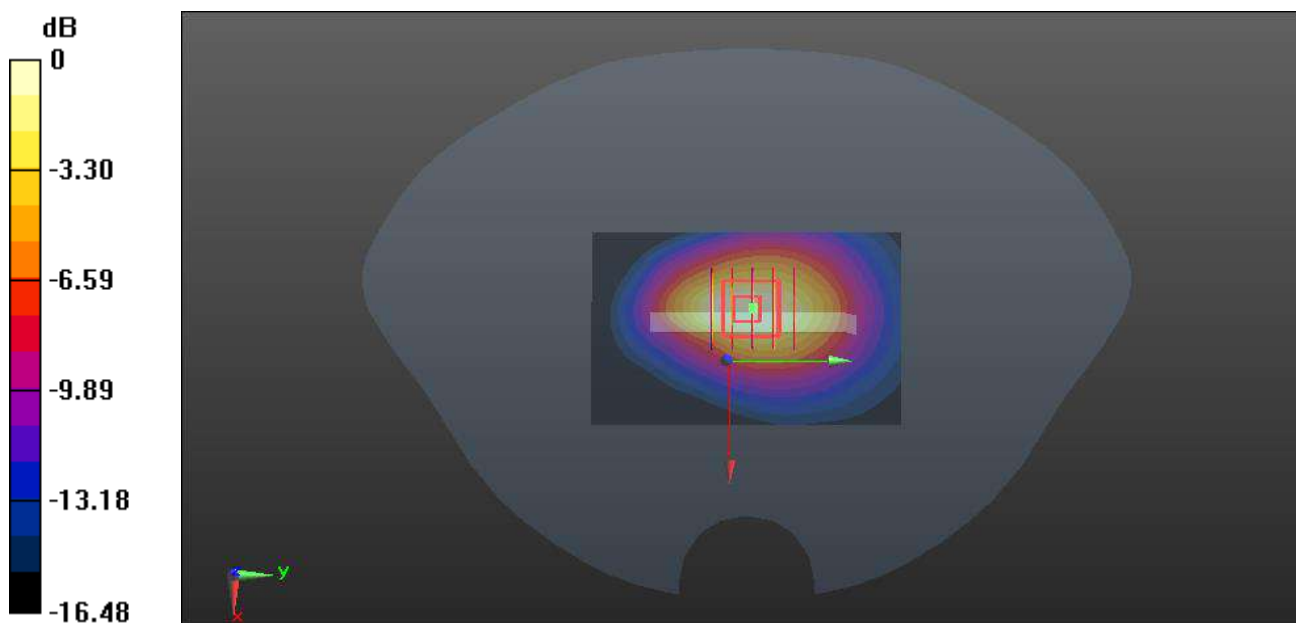
**Ch132572/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.99 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.19 W/kg

**SAR(1 g) = 0.720 W/kg; SAR(10 g) = 0.414 W/kg**

Maximum value of SAR (measured) = 0.788 W/kg



0 dB = 0.788 W/kg

### Meas.36 Right Head with Cheek on Middle Channel LTE Band38 mode with Antenna 1

Date: 2024.02.05

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

Medium parameters used (interpolated):  $f = 2595$  MHz;  $\sigma = 1.941$  S/m;  $\epsilon_r = 39.902$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.64, 7.64, 7.64); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch38000/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.420 W/kg

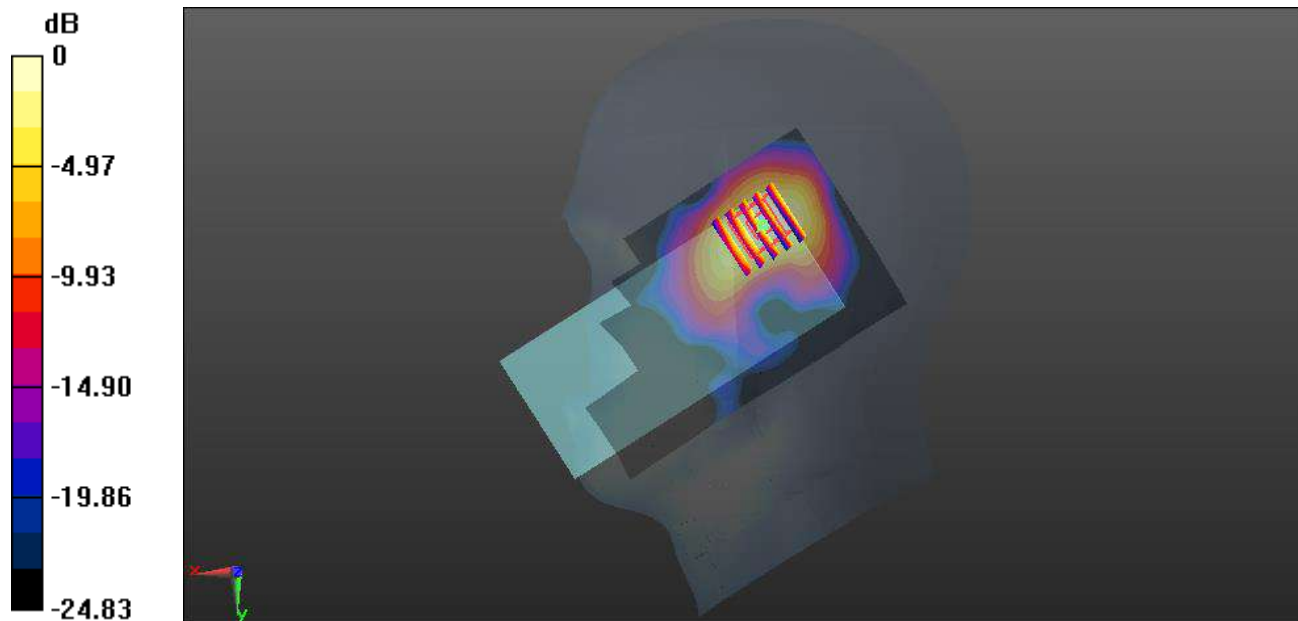
**Ch38000/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.270 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.674 W/kg

**SAR(1 g) = 0.371 W/kg; SAR(10 g) = 0.184 W/kg**

Maximum value of SAR (measured) = 0.434 W/kg



0 dB = 0.434 W/kg



## Meas.37 Body Plane with Back Side 15mm on Middle Channel in LTE Band38 mode with Antenna 0

Date: 2024.02.05

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

Medium parameters used (interpolated):  $f = 2595$  MHz;  $\sigma = 1.941$  S/m;  $\epsilon_r = 39.902$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.64, 7.64, 7.64); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 0.166 W/kg

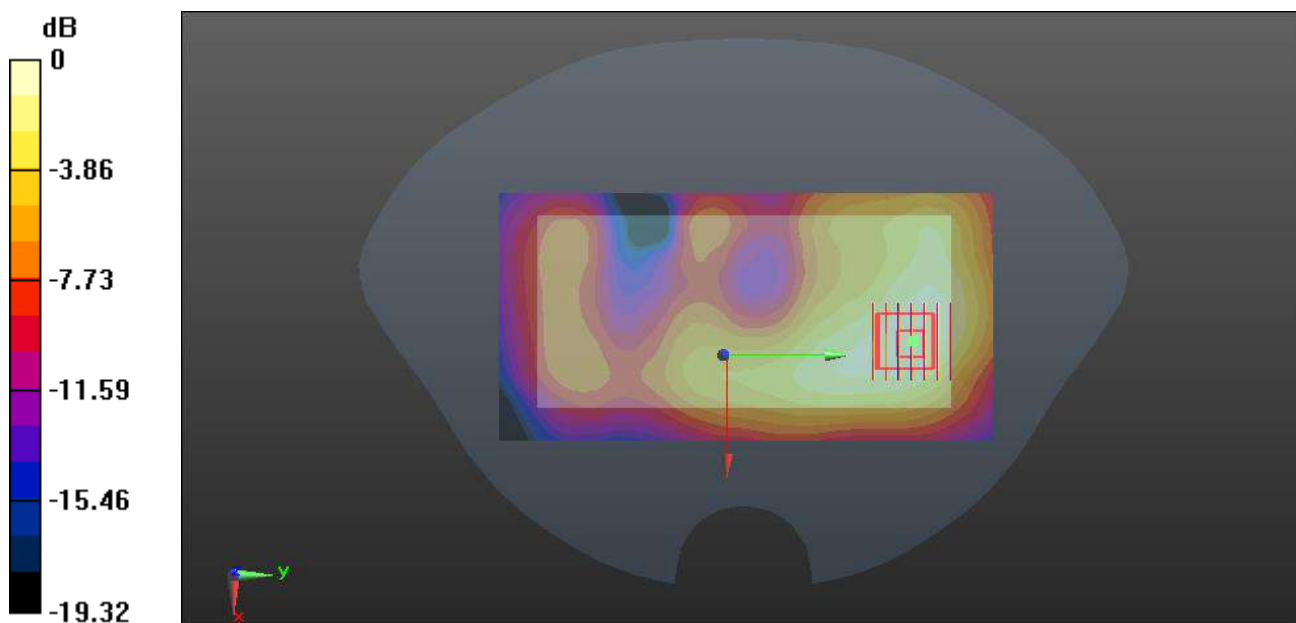
**Ch38000/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.078 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.276 W/kg

**SAR(1 g) = 0.155 W/kg; SAR(10 g) = 0.088 W/kg**

Maximum value of SAR (measured) = 0.169 W/kg



0 dB = 0.169 W/kg

## Meas.38 Body Plane with Back Side 10mm on Middle Channel in LTE Band38 mode with Antenna 0

Date: 2024.02.05

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

Medium parameters used (interpolated):  $f = 2595$  MHz;  $\sigma = 1.941$  S/m;  $\epsilon_r = 39.902$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.64, 7.64, 7.64); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 0.345 W/kg

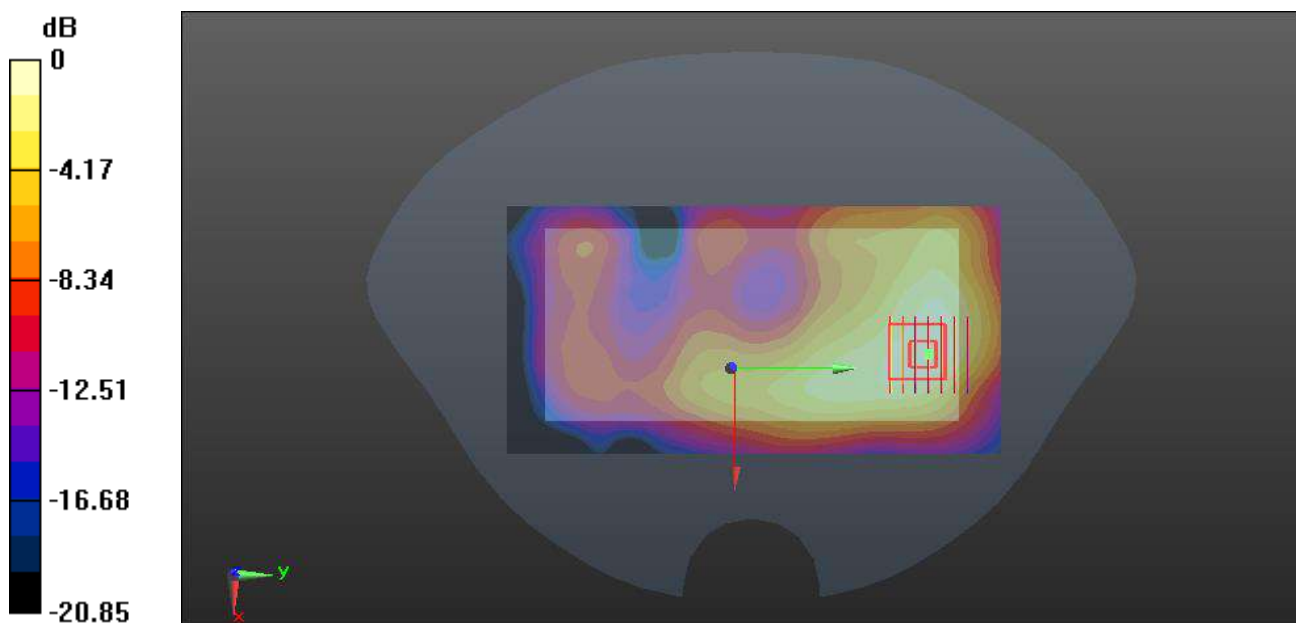
**Ch38000/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.567 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.557 W/kg

**SAR(1 g) = 0.315 W/kg; SAR(10 g) = 0.173 W/kg**

Maximum value of SAR (measured) = 0.347 W/kg



0 dB = 0.347 W/kg

### Meas.39 Right Head with Cheek on Middle Channel LTE Band41 mode with Antenna 1

Date: 2024.02.06

Communication System Band: Band 41; Frequency: 2607.5 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated):  $f = 2607.5$  MHz;  $\sigma = 1.975$  S/m;  $\epsilon_r = 39.121$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature: 22.4°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.64, 7.64, 7.64); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch40765/Area Scan (81x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.367 W/kg

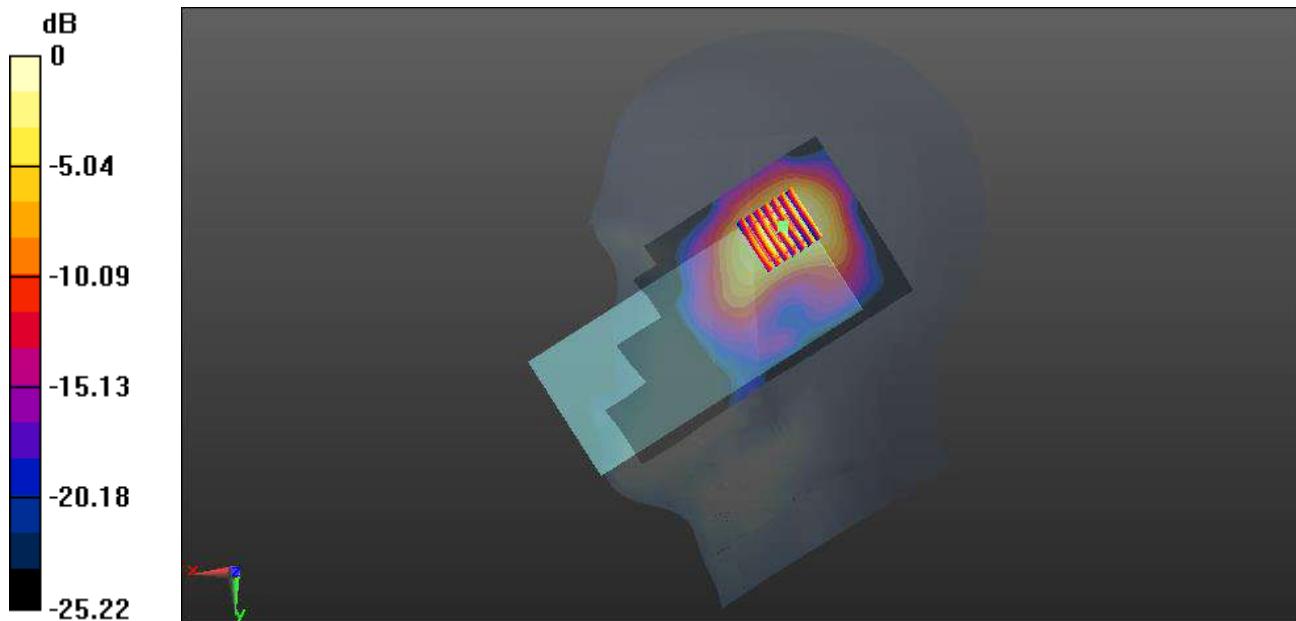
**Ch40765/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.366 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.669 W/kg

**SAR(1 g) = 0.364 W/kg; SAR(10 g) = 0.178 W/kg**

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



0 dB = 0.431 W/kg

## Meas.40 Body Plane with Back Side 15mm on Middle Channel in LTE Band41 mode with Antenna 0

Date: 2024.02.06

Communication System Band: Band 41; Frequency: 2607.5 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated):  $f = 2607.5$  MHz;  $\sigma = 1.975$  S/m;  $\epsilon_r = 39.121$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.4°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.64, 7.64, 7.64); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch40765/Area Scan (81x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.159 W/kg

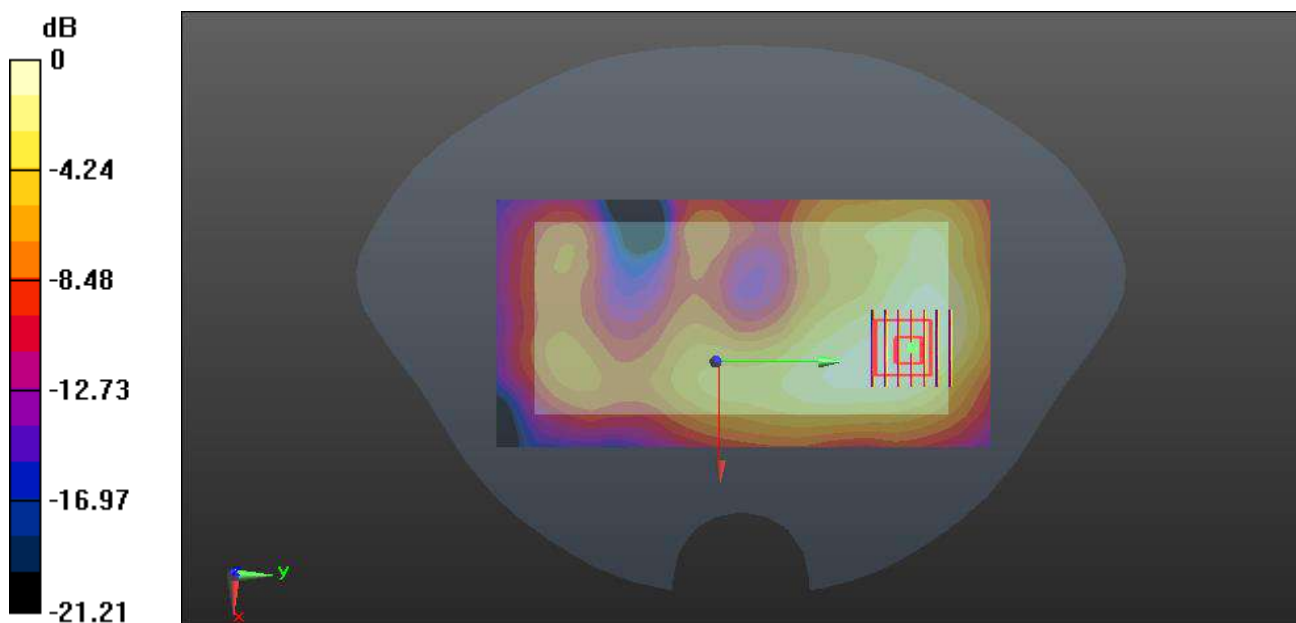
**Ch40765/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.687 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.253 W/kg

**SAR(1 g) = 0.146 W/kg; SAR(10 g) = 0.084 W/kg**

Maximum value of SAR (measured) = 0.157 W/kg



0 dB = 0.157 W/kg

## Meas.41 Body Plane with Back Side 10mm on Middle Channel in LTE Band41 mode with Antenna 0

Date: 2024.02.06

Communication System Band: Band 41; Frequency: 2607.5 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated):  $f = 2607.5$  MHz;  $\sigma = 1.975$  S/m;  $\epsilon_r = 39.121$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.4°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.64, 7.64, 7.64); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch40765/Area Scan (81x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.320 W/kg

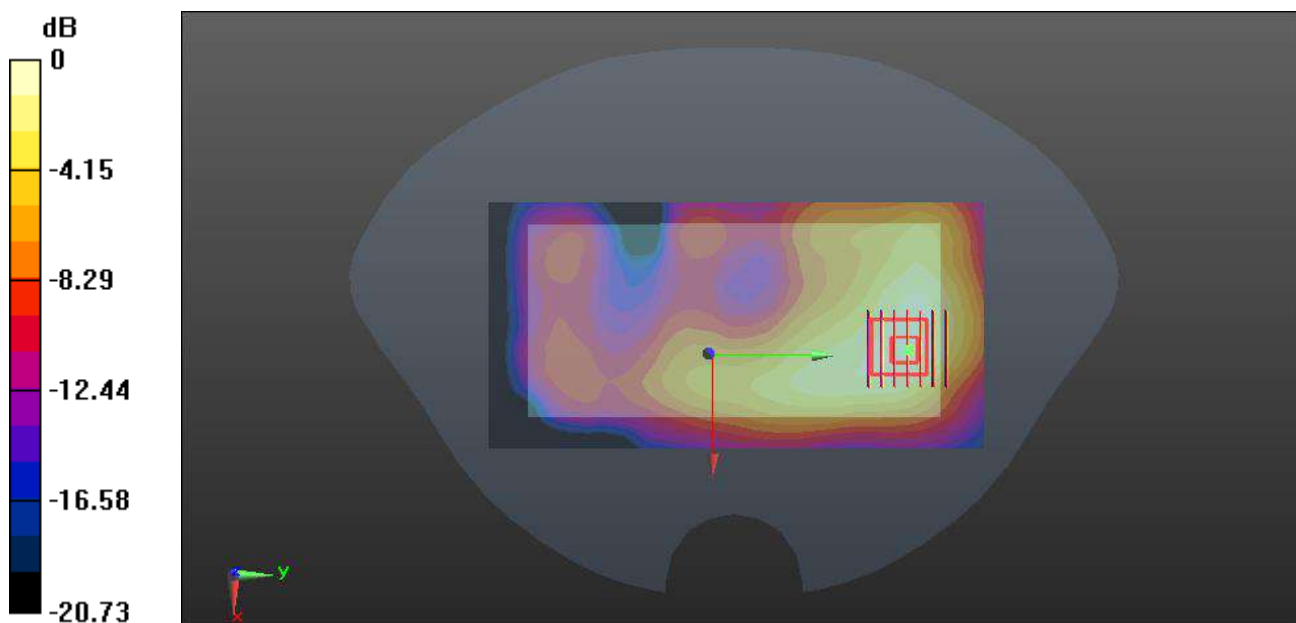
**Ch40765/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.734 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.515 W/kg

**SAR(1 g) = 0.295 W/kg; SAR(10 g) = 0.163 W/kg**

Maximum value of SAR (measured) = 0.327 W/kg



0 dB = 0.327 W/kg

**Meas.42 Left Head with Cheek on 1 Channel in IEEE802.11g mode with Antenna 3**

Date: 2024.02.04

Communication System Band: WLAN(g); Frequency: 2412 MHz; Duty Cycle: 1:1.007

Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.744$  S/m;  $\epsilon_r = 40.043$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.98, 7.98, 7.98); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch1/Area Scan (91x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.963 W/kg

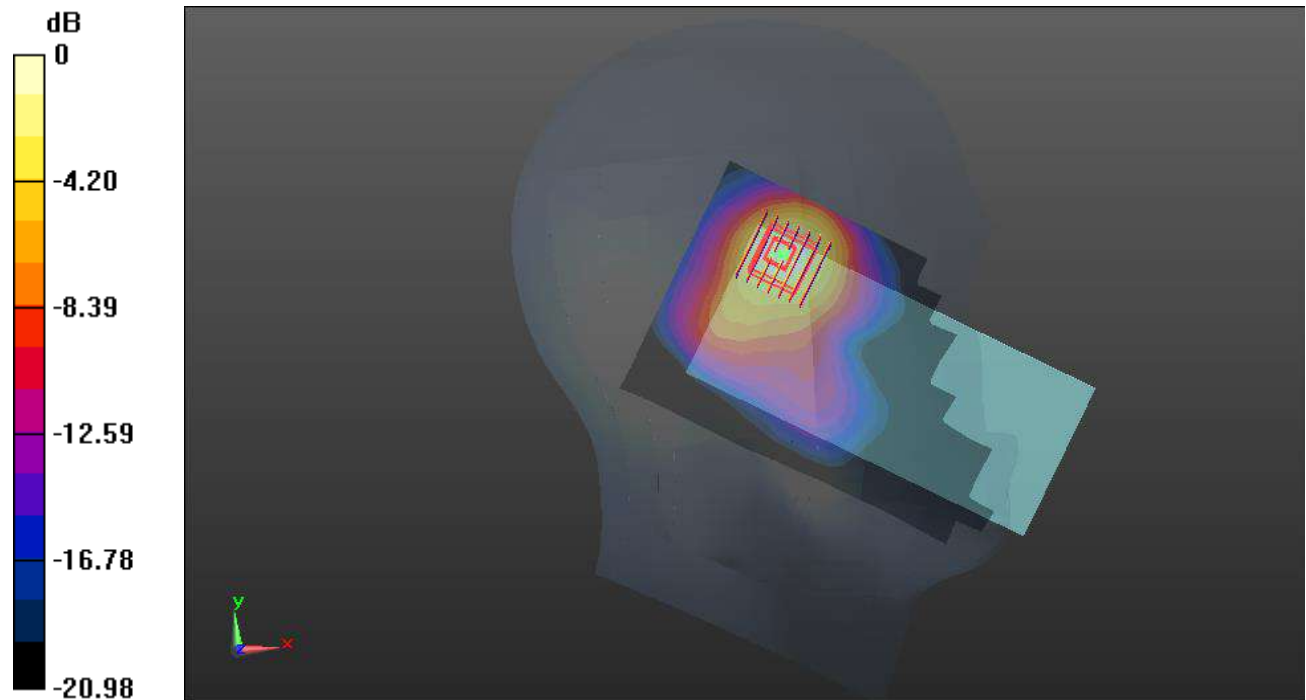
**Ch1/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.89 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.61 W/kg

**SAR(1 g) = 0.861 W/kg; SAR(10 g) = 0.443 W/kg**

Maximum value of SAR (measured) = 0.970 W/kg



0 dB = 0.970 W/kg

**Meas.43 Body Plane with Back Side 15mm on 6 Channel in IEEE802.11g mode with Antenna 3**

Date: 2024.02.04

Communication System Band: WLAN(g); Frequency: 2437 MHz; Duty Cycle: 1:1.007

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.805$  S/m;  $\epsilon_r = 39.714$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.98, 7.98, 7.98); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 0.156 W/kg

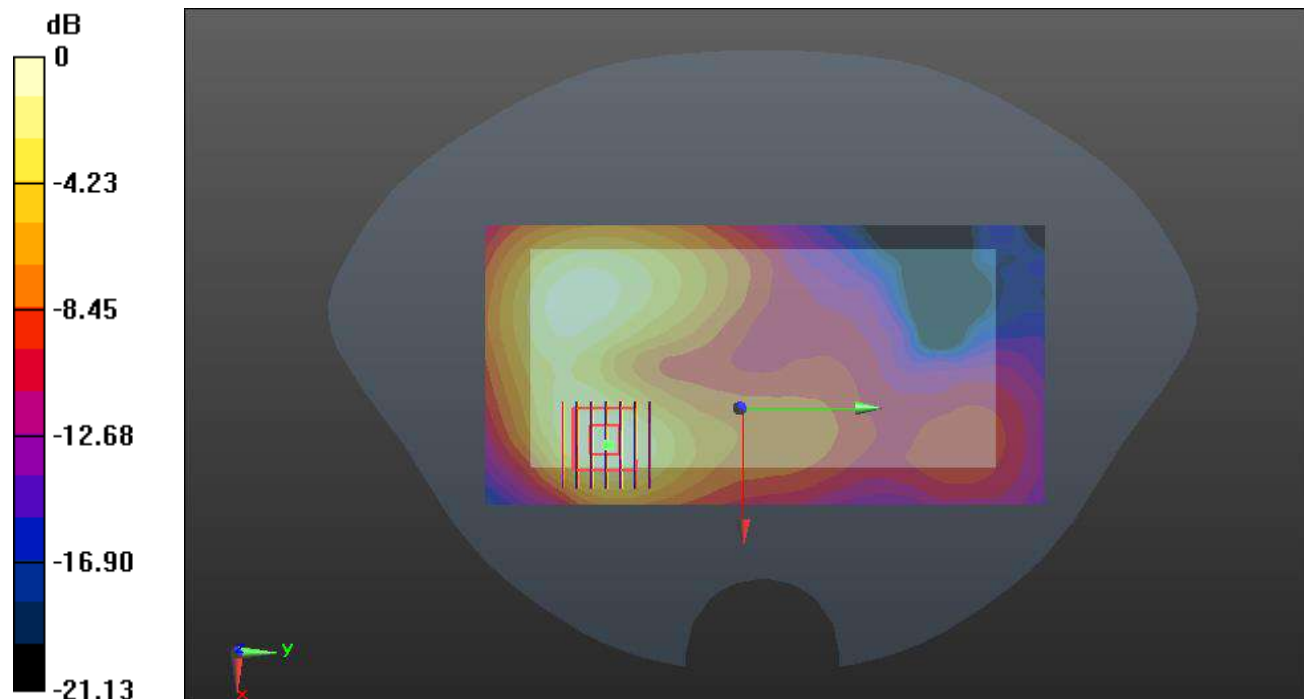
**Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.761 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.262 W/kg

**SAR(1 g) = 0.139 W/kg; SAR(10 g) = 0.071 W/kg**

Maximum value of SAR (measured) = 0.154 W/kg



0 dB = 0.154 W/kg

### Meas.44 Body Plane with Back Side 10mm on 6 Channel in IEEE802.11g mode with Antenna 3

Date: 2024.02.04

Communication System Band: WLAN(g); Frequency: 2437 MHz; Duty Cycle: 1:1.007

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.805$  S/m;  $\epsilon_r = 39.714$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.98, 7.98, 7.98); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 0.403 W/kg

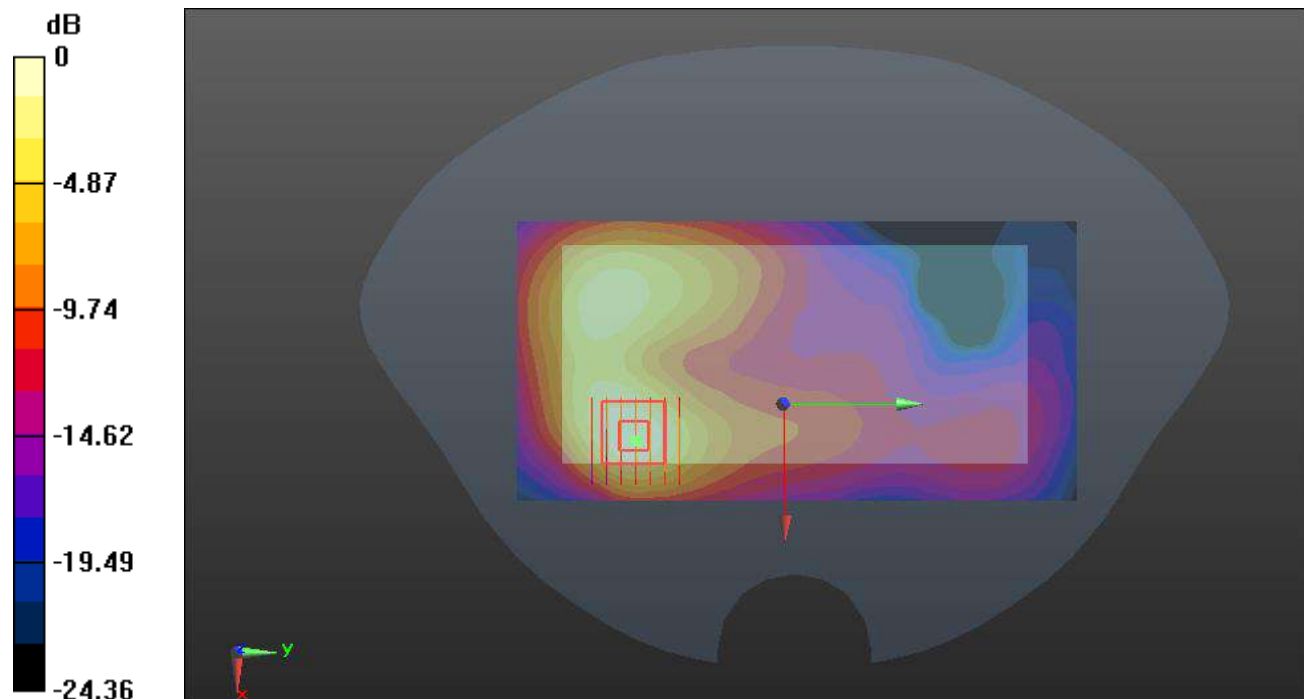
**Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.202 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.764 W/kg

**SAR(1 g) = 0.363 W/kg; SAR(10 g) = 0.174 W/kg**

Maximum value of SAR (measured) = 0.407 W/kg



0 dB = 0.407 W/kg



**Meas.45 Left Head with Cheek on 54 Channel in IEEE802.11n40 mode with Antenna 3**

Date: 2024.02.08

Communication System Band: WLAN(n40); Frequency: 5270 MHz;Duty Cycle: 1:1.078

Medium parameters used (interpolated):  $f = 5270$  MHz;  $\sigma = 4.712$  S/m;  $\epsilon_r = 36.561$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Ambient Temperature:22.5°C Liquid Temperature:21.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(5.48, 5.48, 5.48); Calibrated: 2023.06.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch54/Area Scan (111x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.48 W/kg

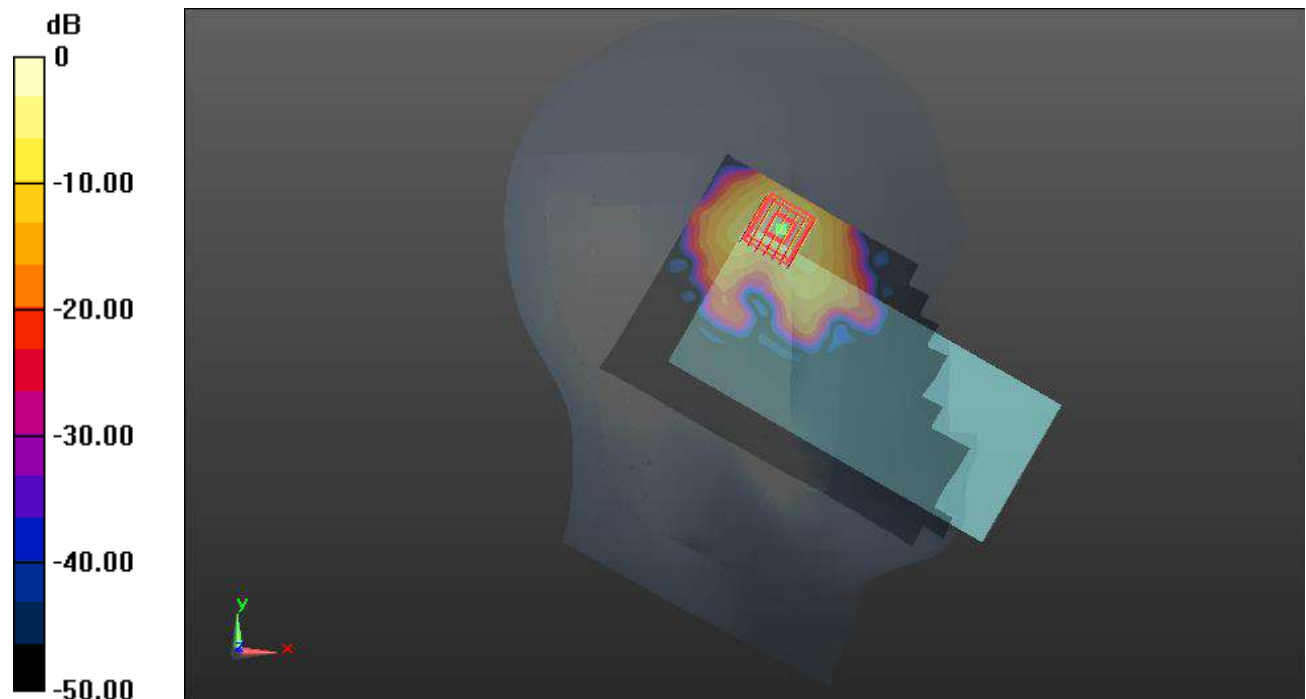
**Ch54/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.175 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.10 W/kg

**SAR(1 g) = 0.740 W/kg; SAR(10 g) = 0.197 W/kg**

Maximum value of SAR (measured) = 1.60 W/kg



0 dB = 1.60 W/kg

**Meas.46 Left Head with Cheek on 118 Channel in IEEE802.11n40 mode with Antenna 3**

Date: 2024.02.09

Communication System Band: WLAN(n40); Frequency: 5590 MHz; Duty Cycle: 1:1.078

Medium parameters used (interpolated):  $f = 5590$  MHz;  $\sigma = 5.034$  S/m;  $\epsilon_r = 35.233$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(4.99, 4.99, 4.99); Calibrated: 2023.06.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch118/Area Scan (111x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.87 W/kg

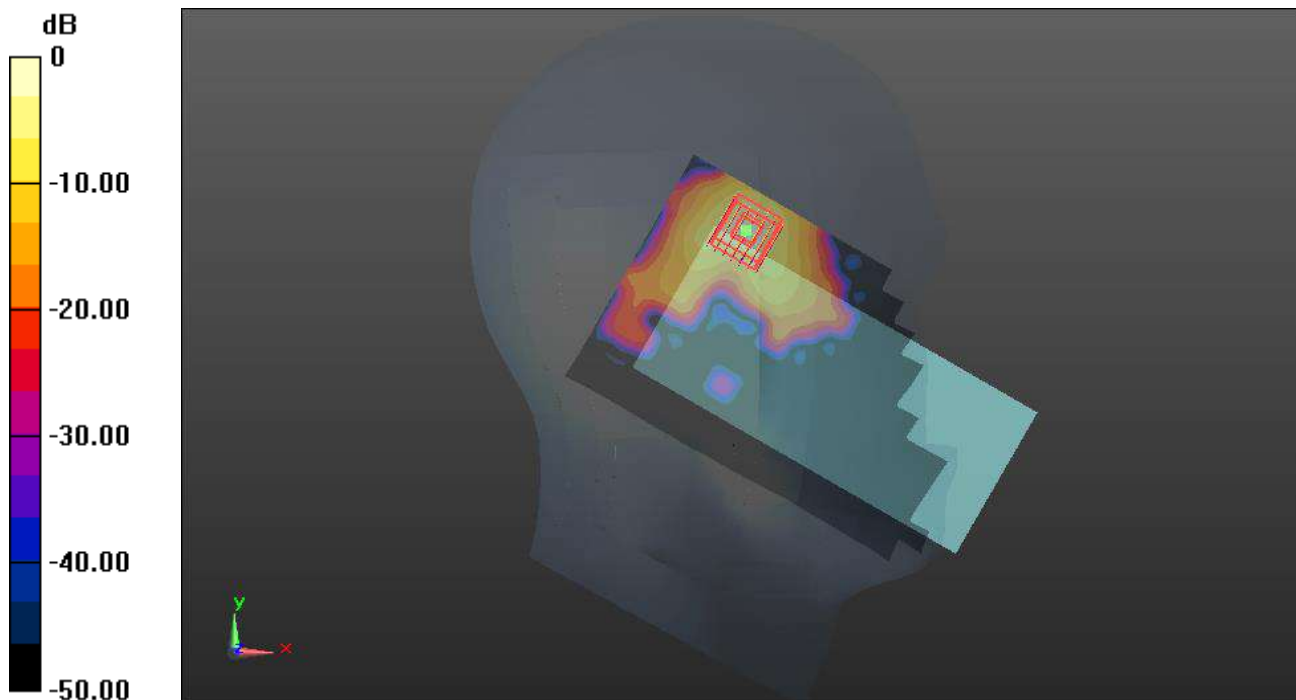
**Ch118/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.287 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 4.23 W/kg

**SAR(1 g) = 0.952 W/kg; SAR(10 g) = 0.252 W/kg**

Maximum value of SAR (measured) = 2.11 W/kg



0 dB = 2.11 W/kg

**Meas.47 Left Head with Cheek on 151 Channel in IEEE802.11n40 mode with Antenna 3**

Date: 2024.02.10

Communication System Band: WLAN(n40); Frequency: 5755 MHz; Duty Cycle: 1:1.078

Medium parameters used (interpolated):  $f = 5755 \text{ MHz}$ ;  $\sigma = 5.187 \text{ S/m}$ ;  $\epsilon_r = 35.568$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(4.95, 4.95, 4.95); Calibrated: 2023.06.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch151/Area Scan (111x191x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 1.46 W/kg

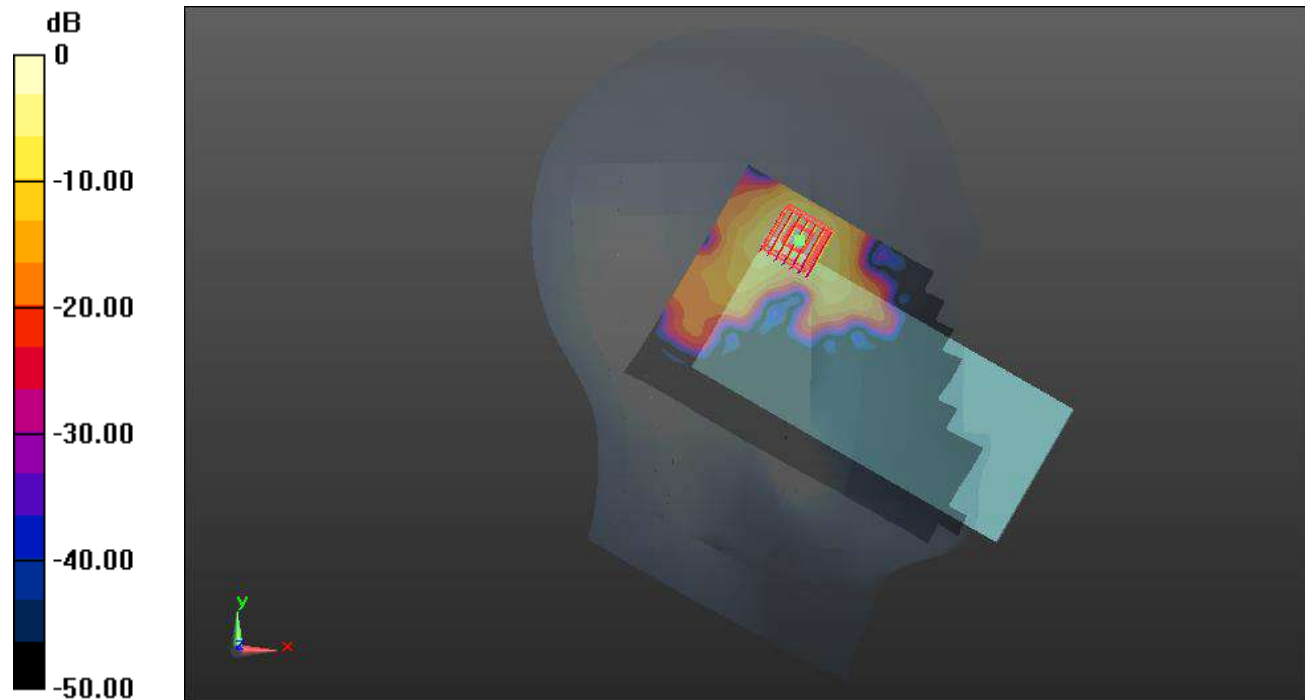
**Ch151/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 1.924 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 3.15 W/kg

**SAR(1 g) = 0.703 W/kg; SAR(10 g) = 0.188 W/kg**

Maximum value of SAR (measured) = 1.57 W/kg



0 dB = 1.57 W/kg

### Meas.48 Body Plane with Back Side 15mm on 54 Channel in IEEE802.11n40 mode with Antenna 3

Date: 2024.02.08

Communication System Band: WLAN(n40); Frequency: 5270 MHz; Duty Cycle: 1:1.078

Medium parameters used (interpolated):  $f = 5270$  MHz;  $\sigma = 4.712$  S/m;  $\epsilon_r = 36.561$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(5.48, 5.48, 5.48); Calibrated: 2023.06.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch54/Area Scan (101x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.625 W/kg

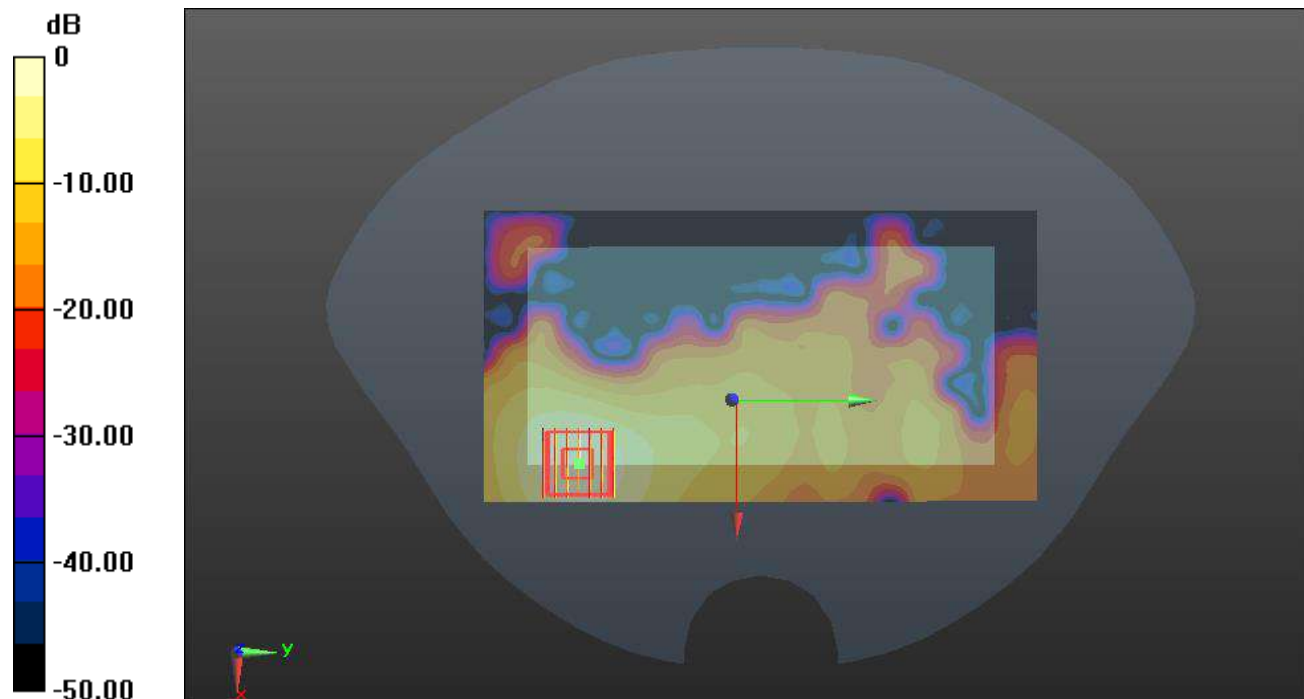
**Ch54/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.433 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.09 W/kg

**SAR(1 g) = 0.328 W/kg; SAR(10 g) = 0.123 W/kg**

Maximum value of SAR (measured) = 0.589 W/kg



0 dB = 0.589 W/kg

### Meas.49 Body Plane with Back Side 15mm on 116 Channel in IEEE802.11a mode with Antenna 3

Date: 2024.02.09

Communication System Band: WLAN(a); Frequency: 5580 MHz; Duty Cycle: 1:1.036

Medium parameters used (interpolated):  $f = 5580$  MHz;  $\sigma = 5.022$  S/m;  $\epsilon_r = 35.357$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(4.99, 4.99, 4.99); Calibrated: 2023.06.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 1.41 W/kg

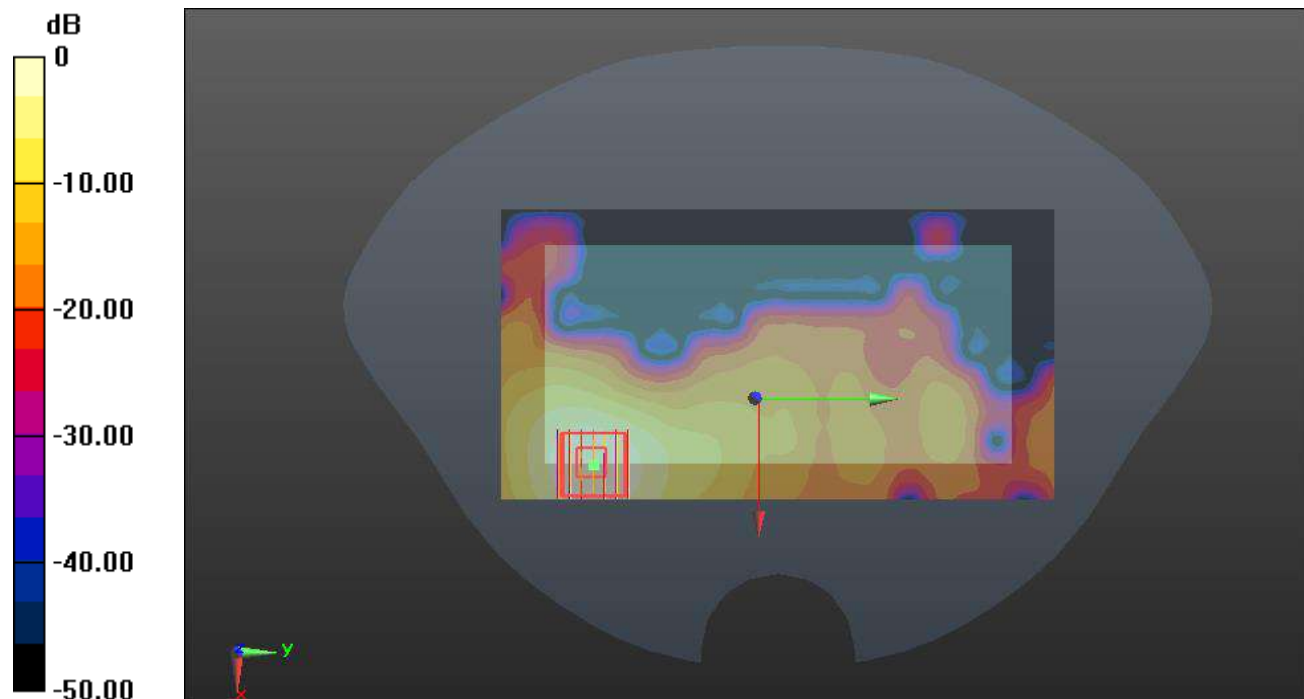
**Ch116/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.675 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 2.40 W/kg

**SAR(1 g) = 0.685 W/kg; SAR(10 g) = 0.259 W/kg**

Maximum value of SAR (measured) = 1.26 W/kg



0 dB = 1.26 W/kg

## Meas.50 Body Plane with Back Side 15mm on 149 Channel in IEEE802.11a mode with Antenna 3

Date: 2024.02.10

Communication System Band: WLAN(a); Frequency: 5745 MHz; Duty Cycle: 1:1.036

Medium parameters used (interpolated):  $f = 5745$  MHz;  $\sigma = 5.129$  S/m;  $\epsilon_r = 36.121$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(4.95, 4.95, 4.95); Calibrated: 2023.06.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch149/Area Scan (111x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.33 W/kg

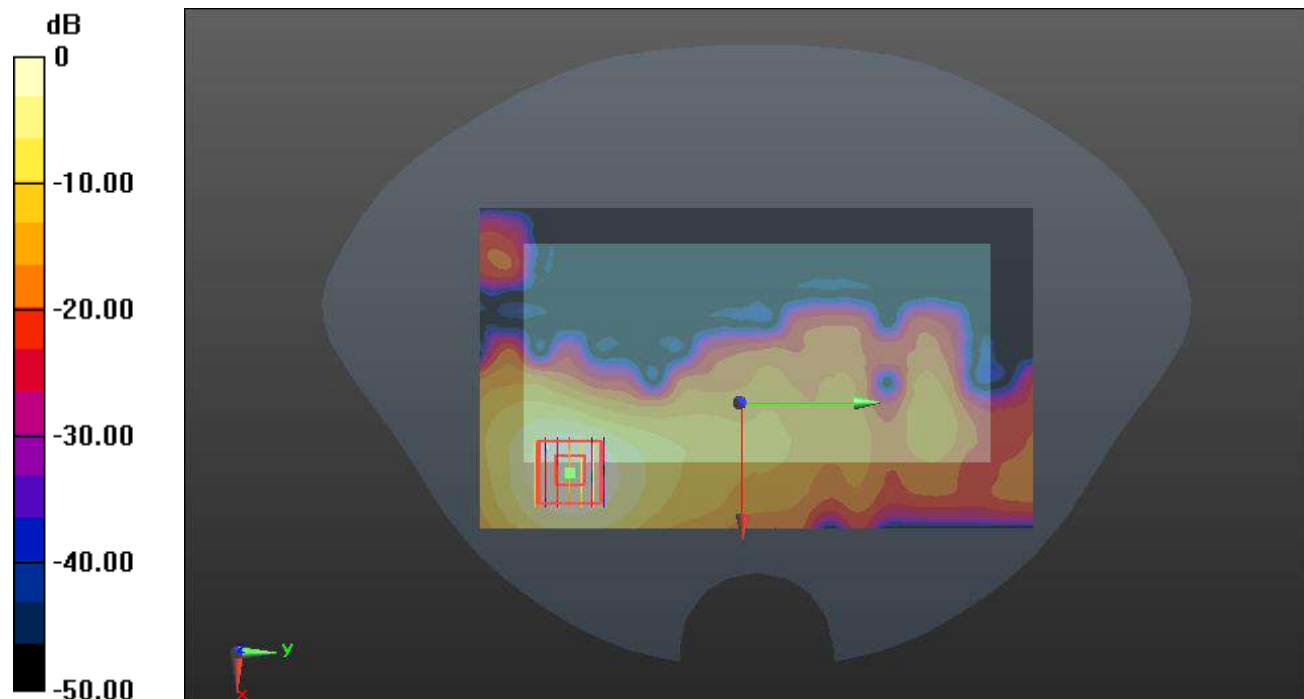
**Ch149/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.262 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.18 W/kg

**SAR(1 g) = 0.601 W/kg; SAR(10 g) = 0.222 W/kg**

Maximum value of SAR (measured) = 1.11 W/kg



0 dB = 1.11 W/kg

### Meas.51 Body Plane with Left Edge 10mm on 46 Channel in IEEE802.11n40 mode with Antenna 3

Date: 2024.02.08

Communication System Band: WLAN(n40); Frequency: 5230 MHz; Duty Cycle: 1:1.078

Medium parameters used (interpolated):  $f = 5230$  MHz;  $\sigma = 4.641$  S/m;  $\epsilon_r = 36.646$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(5.48, 5.48, 5.48); Calibrated: 2023.06.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch46/Area Scan (81x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.778 W/kg

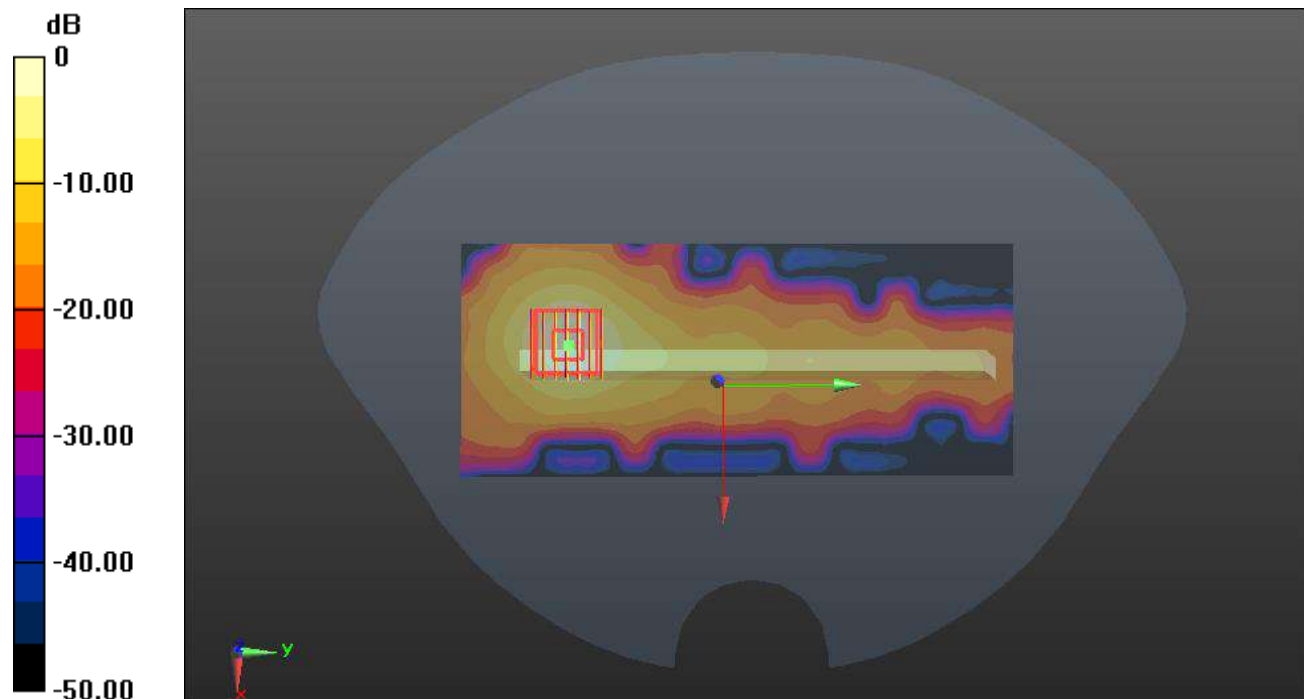
**Ch46/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.452 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.41 W/kg

**SAR(1 g) = 0.404 W/kg; SAR(10 g) = 0.134 W/kg**

Maximum value of SAR (measured) = 0.781 W/kg



0 dB = 0.781 W/kg

### Meas.52 Body Plane with Left Edge 10mm on 155 Channel in IEEE802.11ac80 mode with Antenna 3

Date: 2024.02.10

Communication System Band: WLAN(ac80); Frequency: 5775 MHz; Duty Cycle: 1:1.175

Medium parameters used (interpolated):  $f = 5775$  MHz;  $\sigma = 5.256$  S/m;  $\epsilon_r = 34.976$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(4.99, 4.99, 4.99); Calibrated: 2023.06.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch155/Area Scan (81x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.802 W/kg

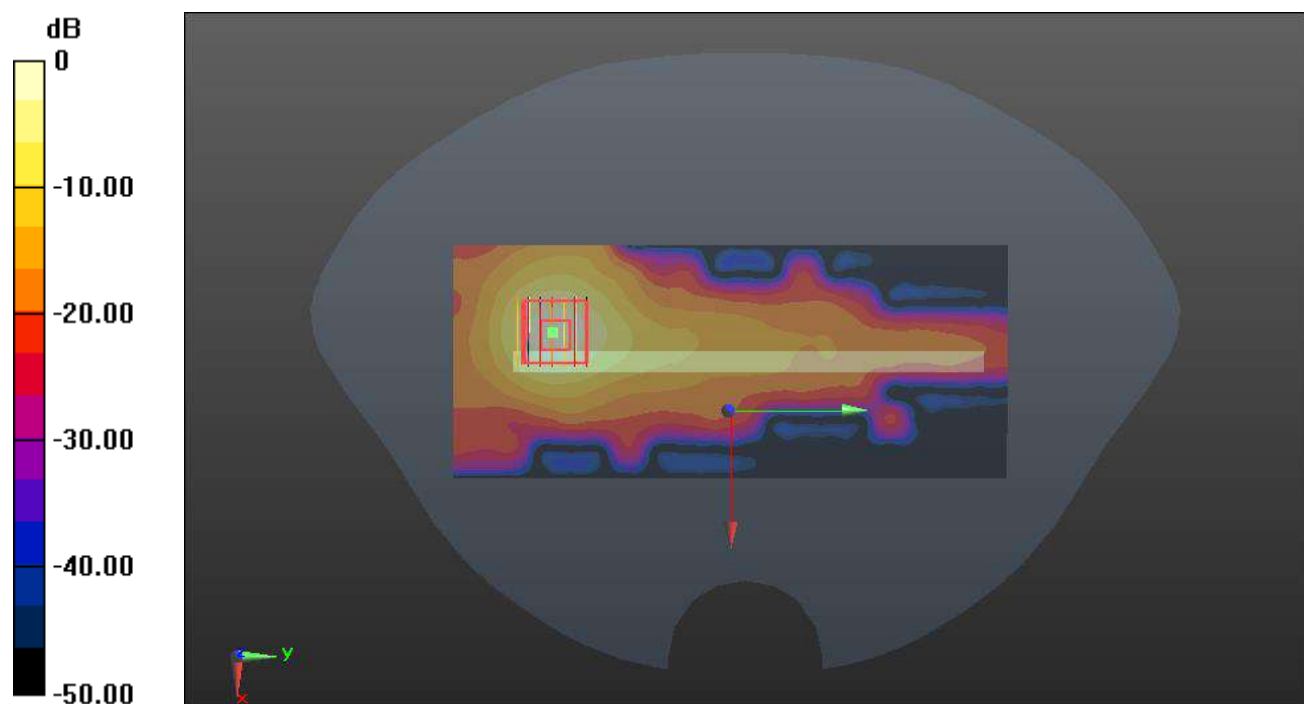
**Ch155/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.8810 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.68 W/kg

**SAR(1 g) = 0.408 W/kg; SAR(10 g) = 0.127 W/kg**

Maximum value of SAR (measured) = 0.806 W/kg



0 dB = 0.806 W/kg



### Meas.53 Body Plane with Left Edge 0mm on 54 Channel in IEEE802.11n40 mode with Antenna 3

Date: 2024.02.08

Communication System Band: WLAN(n40); Frequency: 5270 MHz; Duty Cycle: 1:1.078

Medium parameters used (interpolated):  $f = 5270$  MHz;  $\sigma = 4.712$  S/m;  $\epsilon_r = 36.561$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(5.48, 5.48, 5.48); Calibrated: 2023.06.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch54/Area Scan (81x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 16.2 W/kg

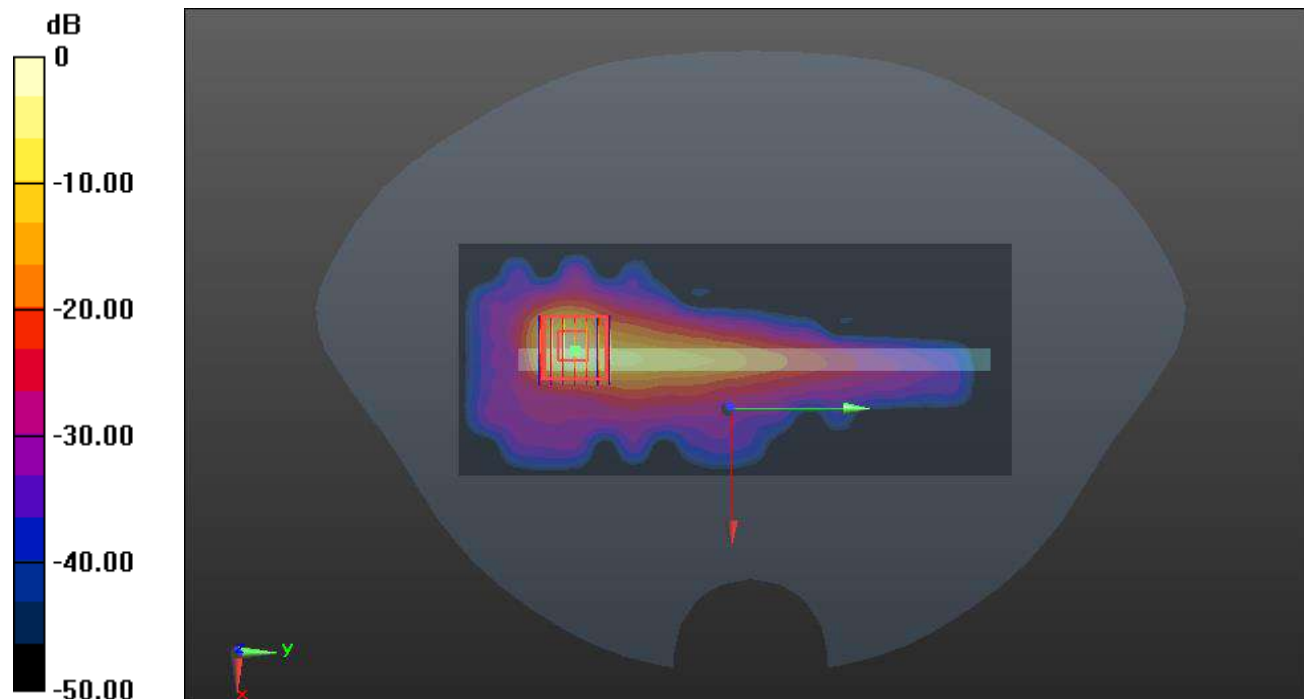
**Ch54/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.501 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 48.9 W/kg

**SAR(1 g) = 7.93 W/kg; SAR(10 g) = 1.45 W/kg**

Maximum value of SAR (measured) = 20.3 W/kg



0 dB = 20.3 W/kg

### Meas.54 Body Plane with Left Edge 0mm on 116 Channel in IEEE802.11a mode with Antenna 3

Date: 2024.02.09

Communication System Band: WLAN(a); Frequency: 5580 MHz; Duty Cycle: 1:1.036

Medium parameters used (interpolated):  $f = 5580$  MHz;  $\sigma = 5.022$  S/m;  $\epsilon_r = 35.357$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(4.99, 4.99, 4.99); Calibrated: 2023.06.29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch116/Area Scan (81x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 19.4 W/kg

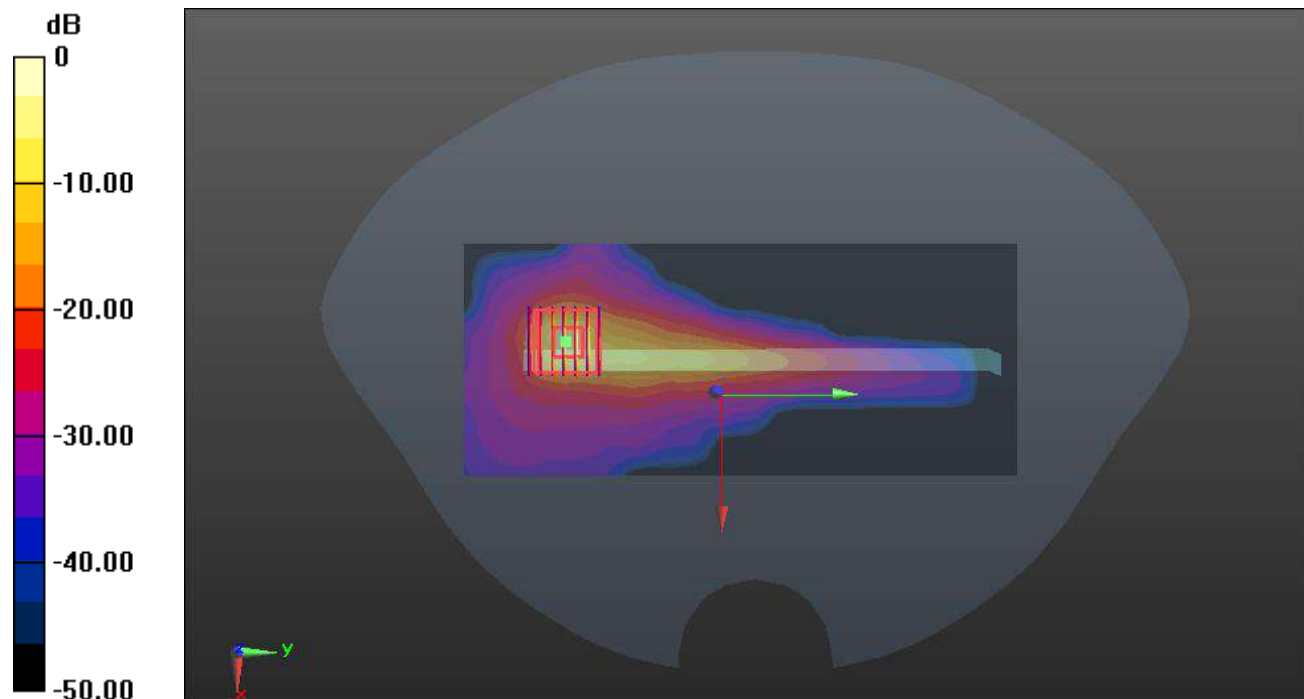
**Ch116/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.865 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 79.1 W/kg

**SAR(1 g) = 12.1 W/kg; SAR(10 g) = 2.21 W/kg**

Maximum value of SAR (measured) = 34.5 W/kg



0 dB = 34.5 W/kg

**Meas.55 Left Head with Cheek on 0 Channel in Bluetooth mode with Antenna 3**

Date: 2024.02.04

Communication System Band: Bluetooth; Frequency: 2402 MHz; Duty Cycle: 1:1.301

Medium parameters used (interpolated):  $f = 2402$  MHz;  $\sigma = 1.733$  S/m;  $\epsilon_r = 40.382$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.98, 7.98, 7.98); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch0/Area Scan (81x151x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.104 W/kg

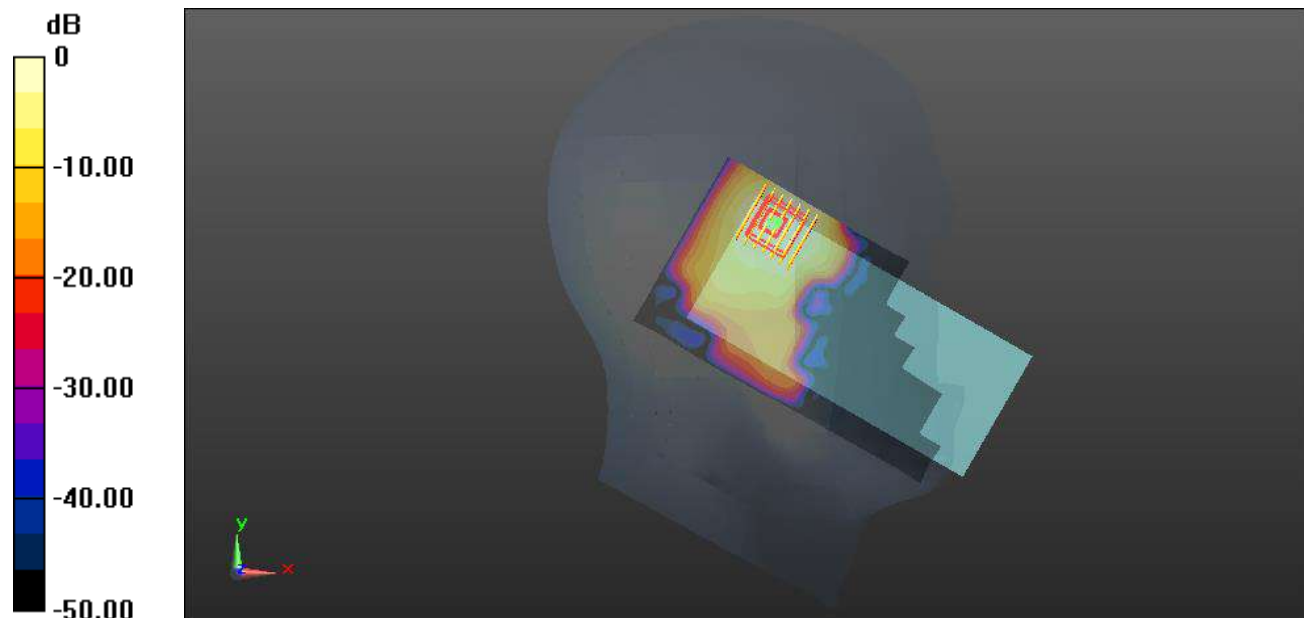
**Ch0/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.539 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.195 W/kg

**SAR(1 g) = 0.098 W/kg; SAR(10 g) = 0.049 W/kg**

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



0 dB = 0.111 W/kg

### Meas.56 Body Plane with Back Side 15mm on 0 Channel in Bluetooth mode with Antenna 3

Date: 2024.02.04

Communication System Band: Bluetooth; Frequency: 2402 MHz; Duty Cycle: 1:1.301

Medium parameters used (interpolated):  $f = 2402$  MHz;  $\sigma = 1.733$  S/m;  $\epsilon_r = 40.382$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.98, 7.98, 7.98); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 0.0197 W/kg

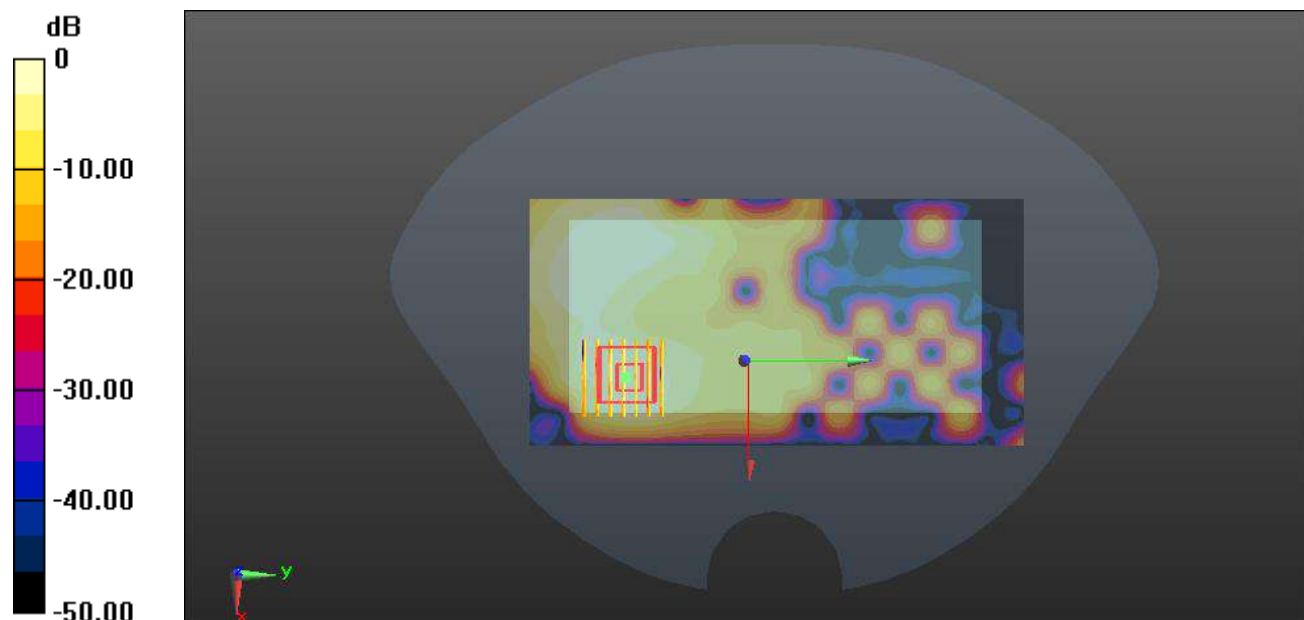
**Ch0/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.6940 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.0400 W/kg

**SAR(1 g) = 0.016 W/kg; SAR(10 g) = 0.0074 W/kg**

Maximum value of SAR (measured) = 0.0183 W/kg



0 dB = 0.0183 W/kg

### Meas.57 Body Plane with Back Side 10mm on 0 Channel in Bluetooth mode with Antenna 3

Date: 2024.02.04

Communication System Band: Bluetooth; Frequency: 2402 MHz; Duty Cycle: 1:1.301

Medium parameters used (interpolated):  $f = 2402$  MHz;  $\sigma = 1.733$  S/m;  $\epsilon_r = 40.382$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.98, 7.98, 7.98); Calibrated: 2023.06.29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- 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) = 0.0447 W/kg

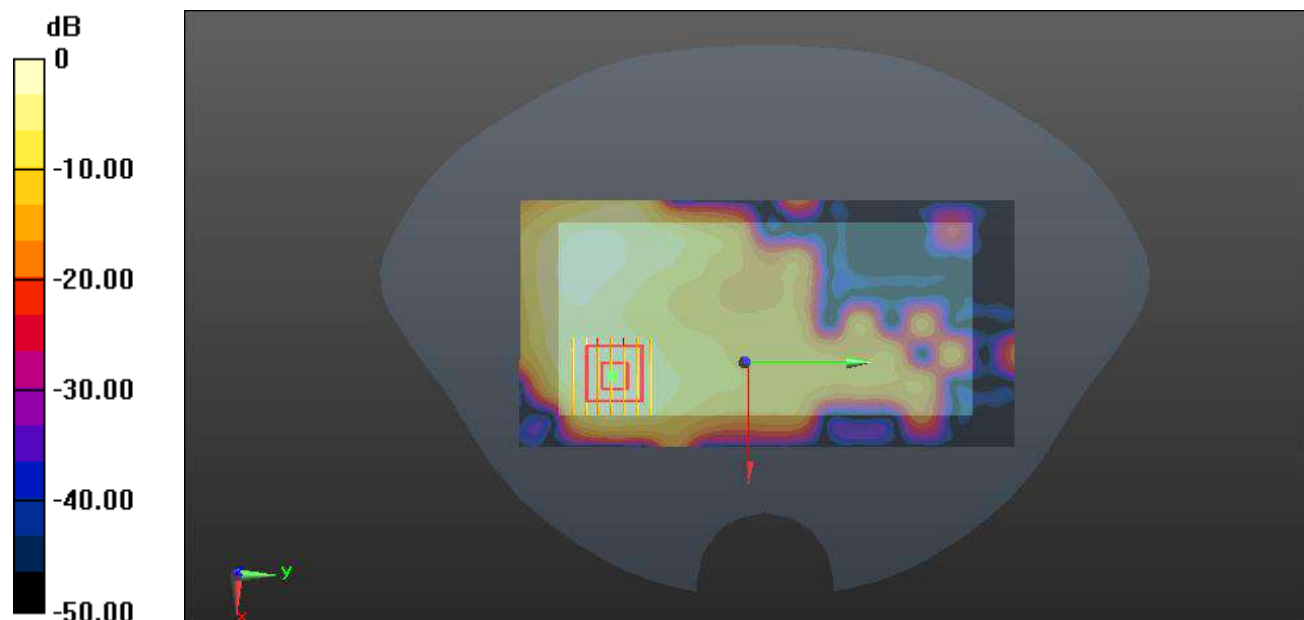
**Ch0/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.9500 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.0840 W/kg

**SAR(1 g) = 0.038 W/kg; SAR(10 g) = 0.017 W/kg**

Maximum value of SAR (measured) = 0.0429 W/kg



0 dB = 0.0429 W/kg

## **ANNEX D EUT EXTERNAL PHOTOS**

Please refer the document “BL-SZ2410719-AW.pdf”.

## **ANNEX E SAR TEST SETUP PHOTOS**

Please refer the document “BL-SZ2410719-AS.pdf”.

## **ANNEX F CALIBRATION REPORT**

Please refer the document “BL-SZ2410719-AC.pdf”.

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