TEST REPORT

Applicant:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address:	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China
Equipment Type:	Mobile Phone
Model Name:	CPH2557, A303OP
Brand Name:	OPPO
FCC ID:	R9C-AC105
Test Standard:	FCC 47 CFR Part 2.1093 (refer section 3.1)
Maximum SAR:	Head (1 g@0mm): 1.20 W/kg Body-worn (1 g@15mm): 0.66 W/kg Hotspot (1 g@10mm): 1.20 W/kg Specific (10 g@10mm): 2.79 W/kg
Sample Arrival Date:	Jun. 16, 2023
Test Date:	Jun. 16, 2023 - Jul. 03, 2023
Date of Issue:	Oct. 16, 2023

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Ruan Zhaoyi **Checked by:** Xu Rui **Approved by:** Tolan Tu

(Testing Director)

Ruan Zhaoyi _____ Xu Rui _____ Tolan Tu _____

Revision History

Version	Issue Date	Revisions Content
Rev. 01	Oct. 09, 2023	Initial Issue
Rev. 02	Oct. 16, 2023	Update antenna type and delete LTE B66, B42 information from the report.

TABLE OF CONTENTS

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	☑ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 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℃ to 25℃
Ambient Relative Humidity	30% to 70%

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China

2.2 Manufacturer Information

Manufacturer	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	CPH2557
Series Model Name	A303OP
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name, Single and dual card. (this information provided by the applicant)
Hardware Version	11
Software Version	ColorOS V13.1
Dimensions (Approx.)	165.61*76.02*7.99 mm
Weight (Approx.)	194g
EUT ID	S10, S09, S12, S11
IMEI Number	S10_IMEI1:862484060053850 IMEI2:862484060053843
	S09_ IMEI1:862484060053397 IMEI2:862484060053389
	S12_IMEI1:862484060054452 IMEI2:862484060054445
	S11_IMEI1:862484060054619 IMEI2:862484060054601
	Note.S10&S09 used for SAR test and S12&S11 used for conducting power.

2.4 Ancillary Equipment

Ancillary Equipment 1	Battery 1	
	Brand Name	SUPERVOOC
	Model No.	BLPA19
	Serial No.	N/A
	Capacitance	Rated: 4880mAh/19.09Wh Typical: 5000mAh/19.55Wh
	Rated Voltage	3.91 V
	Limit Charge Voltage	4.5 V
	Manufacturer	Sunwoda Electronic Co., Ltd.
Ancillary Equipment 2	Battery 2	
	Brand Name	SUPERVOOC
	Model No.	BLPA19
	Serial No.	N/A
	Capacitance	Rated: 4880mAh/19.09Wh Typical: 5000mAh/19.55Wh
	Rated Voltage	3.91 V
	Limited Voltage	4.5 V
	Manufacturer	TWS Technology (Guangzhou) Limited
Ancillary Equipment 3	Battery 3	
	Brand Name	SUPERVOOC
	Model No.	BLPA19
	Serial No.	N/A
	Capacitance	Rated: 4880mAh/19.09Wh Typical: 5000mAh/19.55Wh
	Rated Voltage	3.91 V
	Limited Voltage	4.5 V
	Manufacturer	Chongqing CosMX Battery Co., Ltd.
Ancillary Equipment 4	Battery 4	
	Brand Name	SUPERVOOC
	Model No.	BLPA19
	Serial No.	N/A
	Capacitance	Rated: 4880mAh/19.09Wh Typical: 5000mAh/19.55Wh
	Rated Voltage	3.91 V
	Limited Voltage	4.5 V
	Manufacturer	Dongguan NVT Technology Co.,Ltd
Note: The EUT has four Batterys, they are same with electrical parameters, but only differ in Manufacturer and battery cell. By comparing the test data of four Batteries, battery 1 can produce a more conservative SAR values. The battery of the Manufacturer is Sunwoda Electronic Co., Ltd. as the main for test in this report.		

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 2/4/5/7/12/13/17/26 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, GPS, GLONASS, BDS, Galileo, SBAS, FM Receiver, NFC
Note: 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 12	TX: 699 ~ 716 MHz	RX: 729 ~ 746 MHz
	LTE Band 13	TX: 777 ~ 787 MHz	RX: 746 ~ 756 MHz
	LTE Band 17	TX: 704 ~ 716 MHz	RX: 734 ~ 746 MHz
	LTE Band 26	TX: 814 ~ 849 MHz & 824 ~ 849 MHz	RX: 859 ~ 894 MHz & 869 ~ 894 MHz
	LTE Band 38	TX: 2570 ~ 2620 MHz	RX: 2570 ~ 2620 MHz
	LTE Band 41	TX: 2496 ~ 2690 MHz	RX: 2496 ~ 2690 MHz
	802.11b/g /n(HT20/HT40)	2412 ~ 2462 MHz	
	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	
Antenna Type	WWAN: IFA Antenna WLAN: IFA Antenna		

	Bluetooth: IFA Antenna	
DTM	N/A	
Hotspot Function	Support	
Power Reduction	Support	
Exposure Category	General Population/Uncontrolled exposure	
Product Type	Portable Device	
EUT Type	☒ Production unit	☐ Identical prototype
Note: 1. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4/5G transmitter for held-to-ear exposure conditions. 2. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4/5G transmitter for near to body exposure conditions. 3. The reduction power details please refer section 9.6.		

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 D05A v01r02	REL. 10 LTE SAR TEST GUIDANCE AND KDB INQUIRIES
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

Note: Compared with the EUT of test report BL-SZ2360554-701, the changes of the EUT of this report as below:

1. Remove LTE B66, LTE CA and 5G NR Bands.
2. NFC device are modified from PN560 to SN220P.
3. Add series model name A303OP. (Just Single and dual card differences.)
4. Many frequency bands reduced power for SAR has been changed.

Other hardware circuit and software are the same as EUT referred in test report BL-SZ2360554-601. Therefore, the verification test was performed to demonstrate compliance, and others test data are derived from the BL-SZ2360554-701 report issued by Shenzhen BALUN Technology Co., Ltd. on Sep. 06, 2023.

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/ ControlledExposure
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	0.77	0.22	0.45	/	1.20	0.66	1.20	2.79
	GSM 1900	1.18	0.26	0.61	/				
	WCDMA Band 2	1.08	0.39	1.00	/				
	WCDMA Band 4	1.04	0.45	1.18	**2.79**				
	WCDMA Band 5	0.73	0.21	0.32	/				
	LTE Band 2	**1.20**	0.39	1.00	/				
	LTE Band 4	1.17	0.44	1.16	2.39				
	LTE Band 5	0.81	0.23	0.33	/				
	LTE Band 7	0.78	0.27	0.93	2.49				
	LTE Band 12	0.82	0.21	0.27	/				
	LTE Band 13	0.63	0.16	0.32	/				
	LTE Band 17	0.99	0.23	0.24	/				
	LTE Band 26	0.81	0.19	0.32	/				
	LTE Band 38	0.83	0.39	1.14					
	LTE Band 41	1.13	0.35	**1.20**	/				
DTS	2.4G WLAN	0.53	0.08	0.14	/				
NII	5G WLAN	0.84	**0.66**	1.15	1.33				
DSS	Bluetooth	0.34	0.04	0.09	/				
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 (0mm)	Hotspot 1g (10mm)	Specific 10g (0mm)
PCE	**1.55**	**1.15**	**1.45**	**2.81**
DTS	**1.12**	**0.51**	**1.28**	/
NII	**1.55**	**1.15**	**1.45**	**2.81**
DSS	**1.55**	**1.15**	**1.45**	/
Limit (W/Kg)	1.60	1.60	1.60	4.00
Verdict	Pass			
Note: The highest simultaneous SAR please refer section 13.2				

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 1.20 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 2.79 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 (ρ). 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

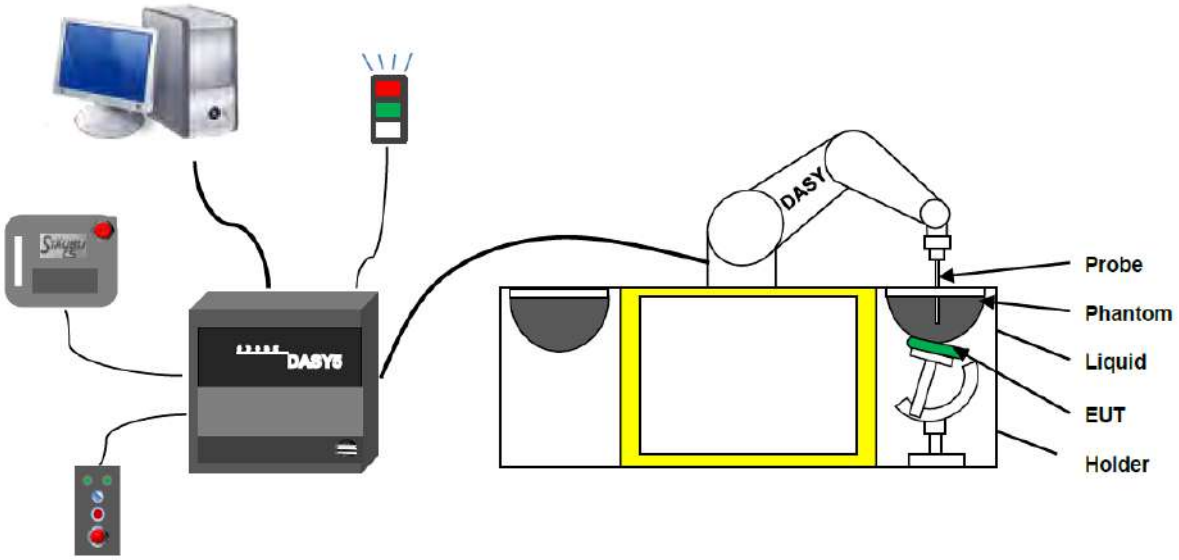
$$\mathbf{SAR} = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

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

4.2.3 E-Field Probe

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

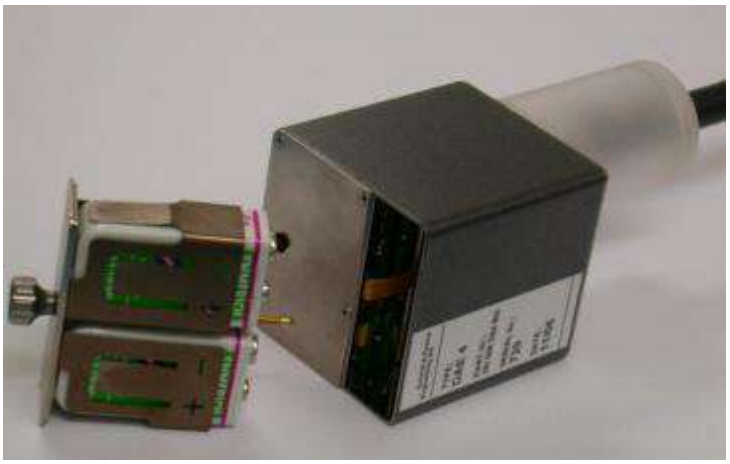
Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection systemBuilt-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to 6 GHz; Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.2 dB in HSL (rotation around probe axis) ; ± 0.4 dB in HSL (rotation normal to probe axis)
Dynamic range	5 µW/g to > 100 mW/g; Linearity: ± 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, Antennessa 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

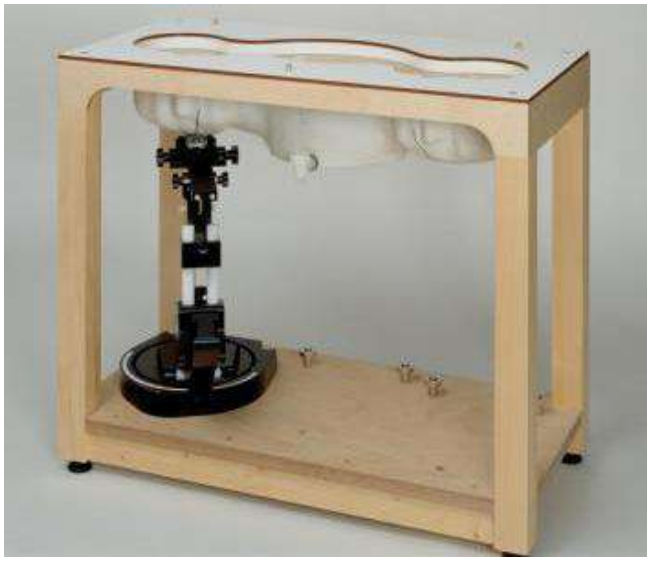
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an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



- Input Impedance: 200MOhm
- The Inputs: Symmetrical and Floating
- Commom 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 SN1857

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

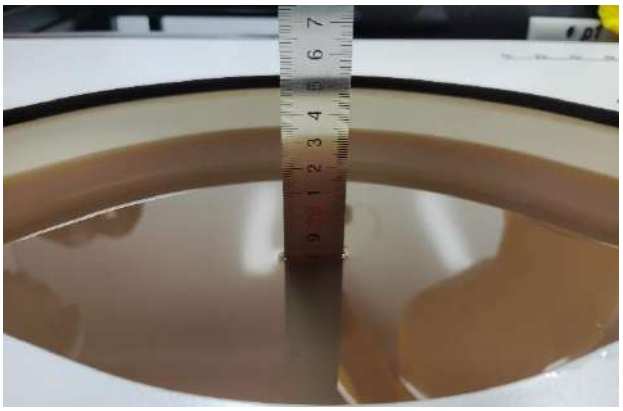
4.2.6 Device Holder

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

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

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%.

Head Liquid Depth	Body Liquid Depth
	

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	Ethanediol, Sodium petroleum sulfonate, Hexylene Glycol / 2-Methyl-pentane-2.4-diol, Alkoxylated alcohol

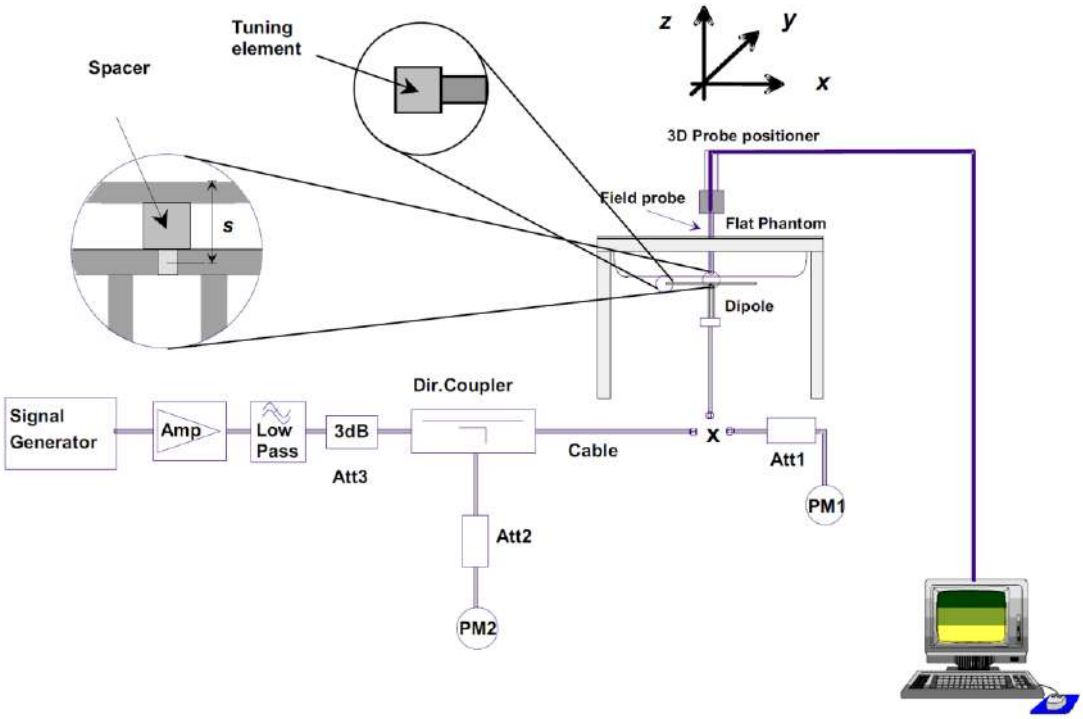
5 SYSTEM VERIFICATION

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

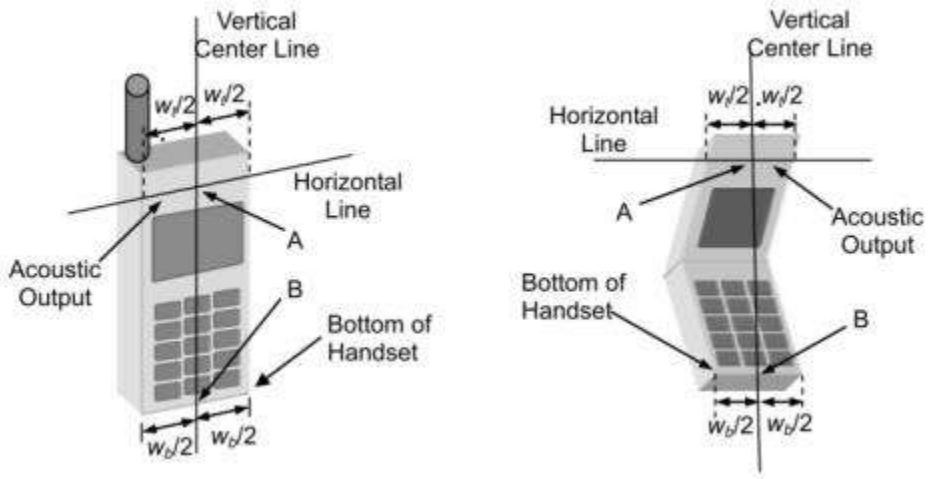
Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2013 using the SAM phantom illustrated as below.

6.1.1 Two Imaginary Lines on the Handset

(a) 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.

(b) 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.

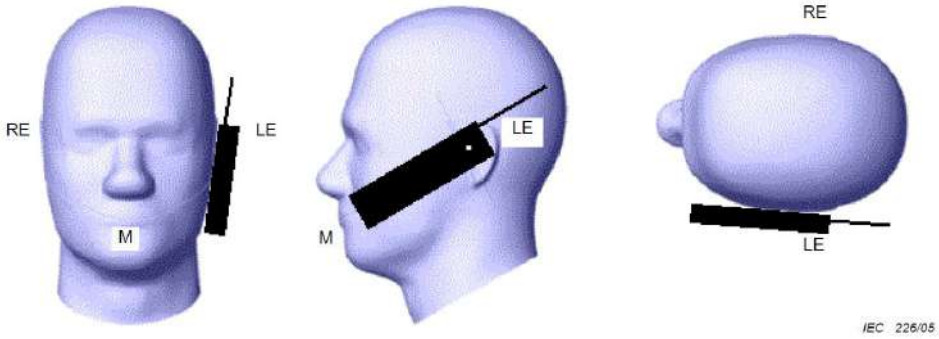
(c) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical center line is not necessarily parallel to the front face of the handset,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



6.1.2 Cheek Position

(a) 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.

(b) 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.

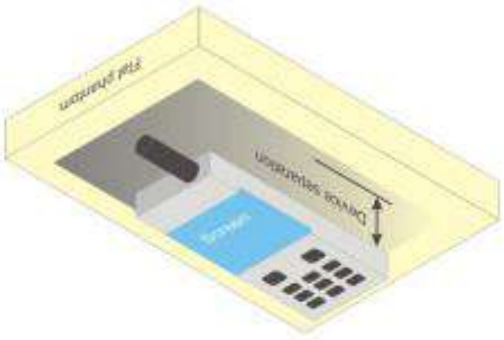
(b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.

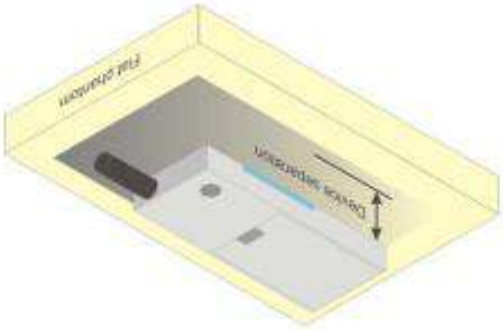
6.2 Body-worn Position Conditions

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.

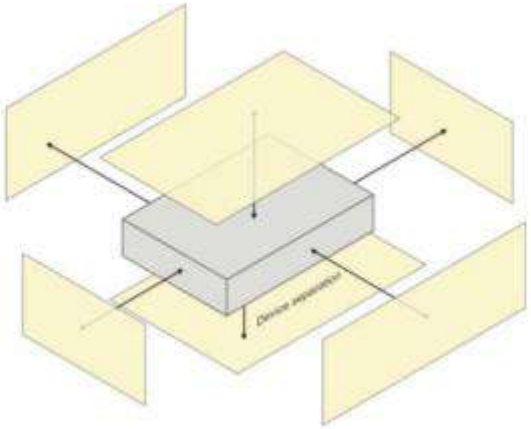
Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice 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 <= 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 ≤ 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.

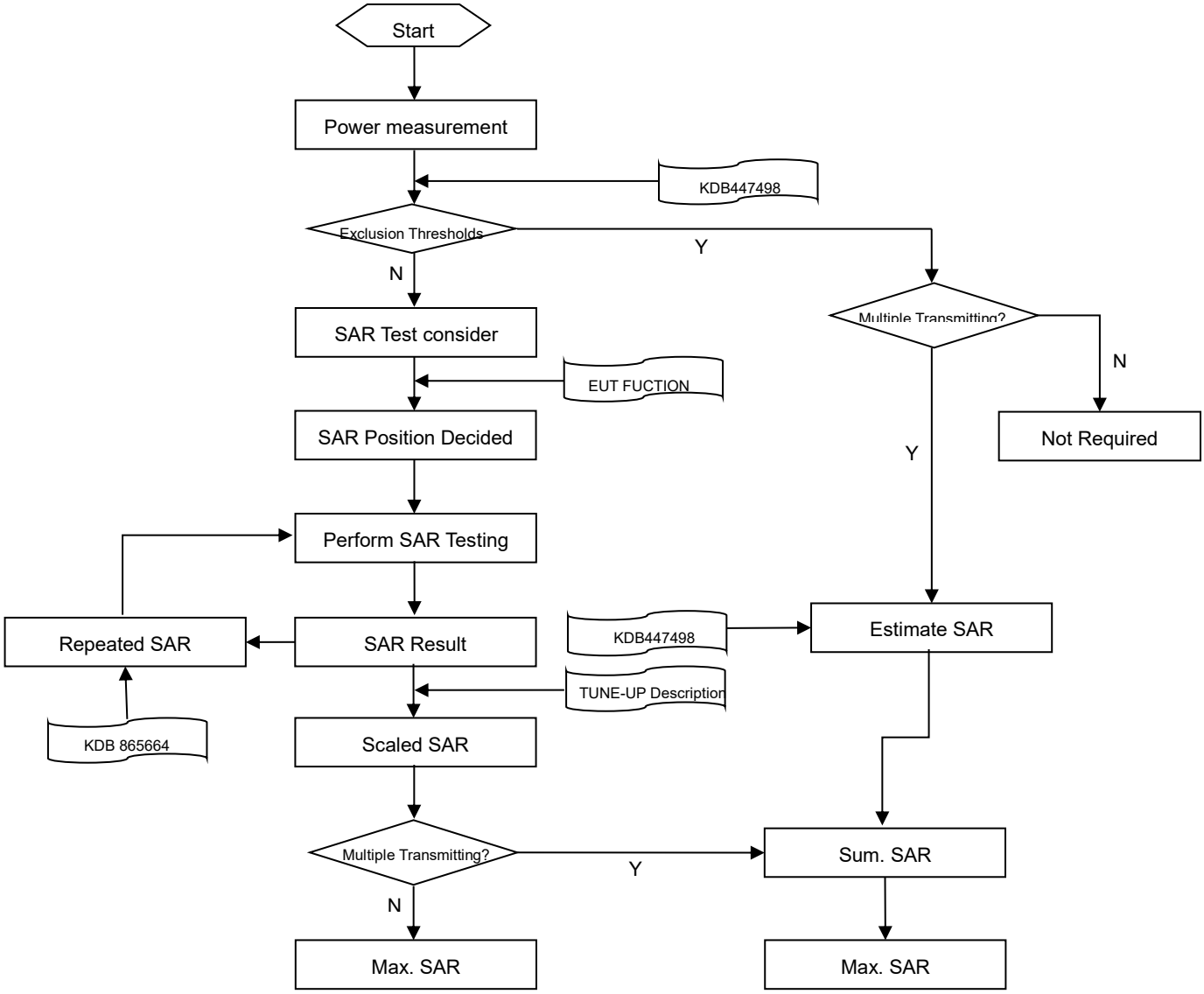
6

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. Boththe 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.

<table>
<tr><th colspan="3"></th><th>≤3GHz</th><th>>3GHz</th></tr>
<tr><td colspan="3">Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface</td><td>5±1 mm</td><td>½·δ·ln(2)±0.5 mm</td></tr>
<tr><td colspan="3">Maximum probe angle from probe axis to phantom surface normal at the measurement location</td><td>30°±1°</td><td>20°±1°</td></tr>
<tr><td colspan="3" rowspan="2">Maximum area scan spatial resolution: Δx Area , Δy Area</td><td>≤ 2 GHz: ≤ 15 mm
2 – 3 GHz: ≤ 12 mm</td><td>3–4 GHz: ≤ 12 mm
4 – 6 GHz: ≤ 10 mm</td></tr>
<tr><td colspan="2">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.</td></tr>
<tr><td colspan="3">Maximum zoom scan spatial resolution: Δx Zoom , Δy Zoom</td><td>≤ 2 GHz: ≤ 8 mm
2 –3 GHz: ≤ 5 mm*</td><td>3–4 GHz: ≤ 5 mm*
4 – 6 GHz: ≤ 4 mm*</td></tr>
<tr><td rowspan="6">Maximum zoom scan spatial resolution, normal to phantom surface</td><td colspan="2" rowspan="3">uniform grid: Δz Zoom (n)</td><td rowspan="3">≤ 5 mm</td><td>3–4 GHz: ≤ 4 mm</td></tr>
<tr><td>4–5 GHz: ≤ 3 mm</td></tr>
<tr><td>5–6 GHz: ≤ 2 mm</td></tr>
<tr><td rowspan="3">graded grid</td><td rowspan="2">Δz Zoom (1): between 1st two points closest to phantom surface</td><td rowspan="2">≤ 4 mm</td><td>3–4 GHz: ≤ 3 mm</td></tr>
<tr><td>4–5 GHz: ≤ 2.5 mm</td></tr>
<tr><td>Δz Zoom (n>1): between subsequent points</td><td>5–6 GHz: ≤ 2 mm</td><td>≤ 1.5·Δz Zoom (n-1)</td></tr>
<tr><td rowspan="3">Minimum zoom scan volume</td><td colspan="2" rowspan="3">x, y, z</td><td rowspan="3">≥30 mm</td><td>3–4 GHz: ≥ 28 mm</td></tr>
<tr><td>4–5 GHz: ≥ 25 mm</td></tr>
<tr><td>5–6 GHz: ≥ 22 mm</td></tr>
<tr><td colspan="5">Note:
1. δ 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.</td></tr>
</table>

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 to16 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 UL duty cycle detection mechanism specification

8.1 Description

The device supporting the UL duty cycle detection mechanism for LTE TDD & NR5G (including FR1 SA and FR1 ENDC), the rest RAT will not apply. The main purpose is to distinguish duty cycle of UL symbol and apply the relevant power levels accordingly. The main purpose is to provide enhanced user experience while meeting the SAR compliance for transmission scheduling.

8.2 SAR test Plan

For each band, the conducted power for each duty cycle has been measured. The SAR evaluation uses the highest specified time-averaged output power configuration.
(1) For 5G NR test, using factory test mode to perform SAR with the highest specified time-averaged output power configuration, and UL duty cycle =100%.
(2) For LTE TDD test, power class using uplink-downlink configuration 0 and special subframe configuration 7 for frame structure type to perform SAR with the highest specified time-averaged output power configuration, and UL duty cycle =63.3%.

9 CONDUCTED RF OUPUT POWER

9.1 GSM

Please refer the document “BL-SZ2360557-701 Conducted RF Output Power List.pdf”.

9.2 WCDMA

Please refer the document “BL-SZ2360557-701 Conducted RF Output Power List.pdf”.

9.3 LTE

Please refer the document “BL-SZ2360557-701 Conducted RF Output Power List.pdf”.

9.4 WIFI

9.4.1 2.4G WIFI-Ant.7-Full Power

Band (GHz)	Mode	Channel	Freq. (MHz)	AV Power （dBm）	Tune-up Limit (dBm)
2.4 (2.4~2.4835)	802.11b	1	2412	12.74	14.00
		2	2417	12.54	14.50
		3	2422	12.91	14.50
		4	2427	13.16	14.50
		5	2432	12.88	14.50
		6	2437	**14.12**	14.50
		7	2442	13.04	14.50
		8	2447	13.02	15.00
		9	2452	12.98	14.50
		10	2457	12.74	14.50
		11	2462	11.08	13.00
	802.11g	1	2412	13.59	15.00
		2	2417	**15.78**	17.00
		6	2437	15.49	17.00
		10	2457	15.38	17.00
		11	2462	12.55	14.50
	802.11n(HT20)	1	2412	13.55	15.00
		2	2417	**15.68**	17.00
		6	2437	15.49	17.00
		10	2457	15.37	17.00
		11	2462	12.52	14.50
	802.11n(HT40)	3	2422	11.53	13.00
		4	2427	11.61	13.00
		5	2432	13.56	15.00
		6	2437	**14.54**	16.50
		7	2442	12.41	14.00
		8	2447	11.58	13.50
		9	2452	11.55	13.50
	VHT(20 MHz)	1	2412	13.24	14.50
		2	2417	**15.72**	17.00
		6	2437	15.46	17.00
		10	2457	15.37	17.00
		11	2462	12.55	14.50
	VHT(40 MHz)	3	2422	11.98	13.00
		4	2427	12.13	13.00

		5	2432	13.72	15.00
		6	2437	**14.79**	16.50
		7	2442	12.56	14.00
		8	2447	11.60	13.50
		9	2452	11.59	13.50

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.

9.4.2 2.4G WIFI-Ant.7-Level1

Band (GHz)	Mode	Channel	Freq. (MHz)	AV Power （dBm）	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	12.74	14.00	No
		2	2417	12.54	14.50	No
		3	2422	12.91	14.50	No
		4	2427	13.16	14.50	No
		5	2432	12.88	14.50	No
		6	2437	**14.12**	14.50	Yes
		7	2442	13.04	14.50	No
		8	2447	13.02	15.00	No
		9	2452	12.98	14.50	No
		10	2457	12.74	14.50	No
		11	2462	11.08	13.00	No
	802.11g	1	2412	13.59	15.00	No
		2	2417	**15.54**	16.50	No
		6	2437	15.52	16.50	No
		10	2457	15.34	16.50	No
		11	2462	12.55	14.50	No
	802.11n(HT20)	1	2412	13.55	15.00	No
		2	2417	15.37	16.50	No
		6	2437	15.41	16.50	No
		10	2457	**15.56**	16.50	No
		11	2462	12.52	14.50	No
	802.11n(HT40)	3	2422	11.53	13.00	No
		4	2427	11.61	13.00	No
		5	2432	13.56	15.00	No
		6	2437	**14.54**	16.50	No
		7	2442	12.41	14.00	No
		8	2447	11.58	13.50	No
		9	2452	11.55	13.50	No
	VHT(20 MHz)	1	2412	13.24	14.50	No
		2	2417	**15.64**	16.50	No
		6	2437	15.61	16.50	No
		10	2457	15.56	16.50	No
		11	2462	12.55	14.50	No
	VHT(40 MHz)	3	2422	11.98	13.00	No
		4	2427	12.13	13.00	No
		5	2432	13.72	15.00	No

		6	2437	**14.79**	16.50	No
		7	2442	12.56	14.00	No
		8	2447	11.60	13.50	No
		9	2452	11.59	13.50	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 $\leqslant$ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR = 0.341 * (44.67mW/19.95mW) = 0.764 W/Kg, so 2.4G OFDM SAR test is not required.

9.4.3 2.4G WIFI-Ant.7-Level2

Band (GHz)	Mode	Channel	Freq. (MHz)	AV Power （dBm）	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	10.06	11.00	No
		2	2417	9.76	11.00	No
		3	2422	9.95	11.00	No
		4	2427	10.05	11.00	No
		5	2432	**10.62**	11.00	Yes
		6	2437	10.15	11.00	No
		7	2442	10.58	11.00	No
		8	2447	9.54	11.00	No
		9	2452	9.60	11.00	No
		10	2457	9.59	11.00	No
		11	2462	9.54	11.00	No
	802.11g	1	2412	9.80	11.00	No
		2	2417	9.81	11.00	No
		6	2437	9.95	11.00	No
		10	2457	9.99	11.00	No
		11	2462	**10.00**	11.00	No
	802.11n(HT20)	1	2412	9.83	11.00	No
		2	2417	**10.20**	11.00	No
		6	2437	10.10	11.00	No
		10	2457	9.95	11.00	No
		11	2462	9.84	11.00	No
	802.11n(HT40)	3	2422	9.98	11.00	No
		4	2427	9.99	11.00	No
		5	2432	9.81	11.00	No
		6	2437	9.80	11.00	No
		7	2442	9.96	11.00	No
		8	2447	**10.19**	11.00	No
		9	2452	9.99	11.00	No
	VHT(20 MHz)	1	2412	9.92	11.00	No
		2	2417	**10.07**	11.00	No
		6	2437	9.91	11.00	No
		10	2457	9.80	11.00	No
		11	2462	10.04	11.00	No
	VHT(40 MHz)	3	2422	10.11	11.00	No
		4	2427	10.09	11.00	No
		5	2432	9.86	11.00	No

		6	2437	9.85	11.00	No
		7	2442	10.08	11.00	No
		8	2447	**10.20**	11.00	No
		9	2452	9.88	11.00	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 $\leqslant$ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR = 0.156 * (12.59mW/12.59mW) = 0.156 W/Kg, so 2.4G OFDM SAR test is not required.

9.4.4 2.4G WIFI-Ant.7-Level3

Band (GHz)	Mode	Channel	Freq. (MHz)	AV Power （dBm）	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	12.74	14.00	No
		2	2417	12.54	14.50	No
		3	2422	12.91	14.50	No
		4	2427	**13.16**	14.50	No
		5	2432	12.88	14.50	No
		6	2437	**14.12**	14.50	Yes
		7	2442	**13.04**	14.50	No
		8	2447	13.02	15.00	No
		9	2452	12.98	14.50	No
		10	2457	12.74	14.50	No
		11	2462	11.08	13.00	No
	802.11g	1	2412	13.59	15.00	No
		2	2417	**15.78**	17.00	No
		6	2437	15.49	17.00	No
		10	2457	15.38	17.00	No
		11	2462	12.55	14.50	No
	802.11n(HT20)	1	2412	13.55	15.00	No
		2	2417	**15.68**	17.00	No
		6	2437	15.49	17.00	No
		10	2457	15.37	17.00	No
		11	2462	12.52	14.50	No
	802.11n(HT40)	3	2422	11.53	13.00	No
		4	2427	11.61	13.00	No
		5	2432	13.56	15.00	No
		6	2437	**14.54**	16.50	No
		7	2442	12.41	14.00	No
		8	2447	11.58	13.50	No
		9	2452	11.55	13.50	No
	VHT(20 MHz)	1	2412	13.24	14.50	No
		2	2417	**15.72**	17.00	No
		6	2437	15.46	17.00	No
		10	2457	15.37	17.00	No
		11	2462	12.55	14.50	No
	VHT(40 MHz)	3	2422	11.98	13.00	No
		4	2427	12.13	13.00	No
		5	2432	13.72	15.00	No

		6	2437	**14.79**	16.50	No
		7	2442	12.56	14.00	No
		8	2447	11.60	13.50	No
		9	2452	11.59	13.50	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 $\leqslant$ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR = 0.137 * (50.12mW/19.95mW) = 0.344 W/Kg, so 2.4G OFDM SAR test is not required.

9.4.5 2.4G WIFI-Ant.7-Level4

Band (GHz)	Mode	Channel	Freq. (MHz)	AV Power （dBm）	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	12.38	13.50	No
		2	2417	12.55	13.50	No
		3	2422	12.81	13.50	No
		4	2427	12.97	13.50	No
		5	2432	**13.01**	13.50	Yes
		6	2437	12.52	13.50	No
		7	2442	12.44	13.50	No
		8	2447	12.89	13.50	No
		9	2452	12.20	13.50	No
		10	2457	12.16	13.50	No
		11	2462	11.08	13.00	No
	802.11g	1	2412	12.66	13.50	No
		2	2417	12.41	13.50	No
		6	2437	12.46	13.50	No
		10	2457	**12.70**	13.50	No
		11	2462	12.50	13.50	No
	802.11n(HT20)	1	2412	12.57	13.50	No
		2	2417	12.46	13.50	No
		6	2437	12.36	13.50	No
		10	2457	**12.70**	13.50	No
		11	2462	12.36	13.50	No
	802.11n(HT40)	3	2422	11.53	13.00	No
		4	2427	11.61	13.00	No
		5	2432	12.58	13.50	No
		6	2437	12.62	13.50	No
		7	2442	**12.65**	13.50	No
		8	2447	11.58	13.50	No
		9	2452	11.55	13.50	No
	VHT(20 MHz)	1	2412	12.44	13.50	No
		2	2417	12.52	13.50	No
		6	2437	12.47	13.50	No
		10	2457	12.45	13.50	No
		11	2462	**12.68**	13.50	No
	VHT(40 MHz)	3	2422	11.98	13.00	No
		4	2427	12.13	13.00	No
		5	2432	12.36	13.50	No

		6	2437	**12.49**	13.50	No
		7	2442	12.33	13.50	No
		8	2447	11.60	13.50	No
		9	2452	11.59	13.50	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 ≤ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR = 0.108 * (22.39mW/22.39mW) = 0.108 W/Kg, so 2.4G OFDM SAR test is not required.

9.4.6 5G WIFI-Ant.7-Full Power

Band (GHz)	Mode	Channel	Freq. (MHz)	AV Power (dBm)	Tune-up Limit (dBm)
5.2 (5.15~5.25)	802.11a	36	5180	**16.71**	18.00
		44	5220	16.69	18.00
		48	5240	16.62	18.00
	802.11n(HT20)	36	5180	16.61	18.00
		44	5220	16.56	18.00
		48	5240	**16.62**	18.00
	802.11n(HT40)	38	5190	13.69	14.00
		46	5230	**16.71**	18.00
	802.11ac(VHT20)	36	5180	16.54	18.00
		44	5220	16.51	18.00
		48	5240	**16.59**	18.00
	802.11ac(VHT40)	38	5190	12.59	14.00
		46	5230	**16.80**	18.00
	802.11ac(VHT80)	42	5210	**10.09**	11.50
5.3 (5.25~5.35)	802.11a	52	5260	16.81	18.00
		60	5300	**16.84**	18.00
		64	5320	14.79	16.00
	802.11n(HT20)	52	5260	16.68	18.00
		60	5300	**16.81**	18.00
		64	5320	15.65	17.00
	802.11n(HT40)	54	5270	**16.83**	18.00
		62	5310	12.28	13.50
	802.11ac(VHT20)	52	5260	**16.71**	18.00
		60	5300	16.70	18.00
		64	5320	15.70	17.00
	802.11ac(VHT40)	54	5270	**16.83**	18.00
		62	5310	12.25	13.50
	802.11ac(VHT80)	58	5290	**10.08**	11.50
5.6 (5.47~5.725)	802.11a	100	5500	14.92	15.50
		104	5520	14.85	15.50
		116	5580	14.95	15.50
		136	5680	15.31	15.50
		140	5700	**15.38**	15.50
	802.11n(HT20)	100	5500	12.23	13.50
		104	5520	12.44	13.50
		116	5580	12.70	13.50

		136	5680	12.56	13.50
		140	5700	**13.30**	13.50
	802.11n(HT40)	102	5510	10.18	11.50
		110	5550	**10.62**	11.50
		118	5590	10.33	11.50
		126	5630	10.59	11.50
		134	5670	10.42	11.50
	802.11ac(VHT20)	100	5500	13.21	14.50
		104	5520	13.37	14.50
		116	5580	13.66	14.50
		136	5680	13.54	14.50
		140	5700	**14.27**	14.50
	802.11ac(VHT40)	102	5510	10.29	11.50
		110	5550	**10.52**	11.50
		118	5590	10.31	11.50
		126	5630	10.38	11.50
		134	5670	10.46	11.50
	802.11ac(VHT80)	106	5530	11.18	12.50
		122	5610	**11.69**	12.50
5.8 (5.725~5.850)	802.11a	149	5745	16.87	17.50
		157	5785	16.93	17.50
		165	5825	**16.94**	17.50
	802.11n(HT20)	149	5745	16.77	17.50
		157	5785	**16.80**	17.50
		165	5825	16.79	17.50
	802.11n(HT40)	151	5755	**16.95**	17.50
		159	5795	16.94	17.50
	802.11ac(VHT20)	149	5745	**16.80**	17.50
		157	5785	16.74	17.50
		165	5825	16.76	17.50
	802.11ac(VHT40)	151	5755	**16.96**	17.50
		159	5795	16.95	17.50
	802.11ac(VHT80)	155	5775	**16.77**	17.50
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 ≤ 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.					

9.4.7 5G WIFI-Ant.7-Level1

Band (GHz)	Mode	Channel	Freq. (MHz)	AV Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	**14.66**	15.50	No
		44	5220	14.35	15.50	No
		48	5240	14.58	15.50	No
	802.11n(HT20)	36	5180	**14.68**	15.50	No
		44	5220	14.57	15.50	No
		48	5240	14.47	15.50	No
	802.11n(HT40)	38	5190	13.69	14.00	No
		46	5230	**14.54**	15.50	No
	802.11ac(VHT20)	36	5180	14.62	15.50	No
		44	5220	**14.63**	15.50	No
		48	5240	14.50	15.50	No
	802.11ac(VHT40)	38	5190	12.59	14.00	No
		46	5230	**14.56**	15.50	No
	802.11ac(VHT80)	42	5210	**10.09**	11.50	No
5.3 (5.25~5.35)	802.11a	52	5260	14.40	15.50	No
		60	5300	14.47	15.50	No
		64	5320	**14.79**	15.50	No
	802.11n(HT20)	52	5260	14.33	15.50	No
		60	5300	**14.55**	15.50	No
		64	5320	14.51	15.50	No
	802.11n(HT40)	54	5270	**14.74**	15.50	Yes
		62	5310	12.28	13.50	No
	802.11ac(VHT20)	52	5260	**14.51**	15.50	No
		60	5300	14.34	15.50	No
		64	5320	14.34	15.50	No
	802.11ac(VHT40)	54	5270	**14.39**	15.50	No
		62	5310	12.25	13.50	No
	802.11ac(VHT80)	58	5290	**10.08**	11.50	No
5.6 (5.47~5.725)	802.11a	100	5500	14.92	15.50	No
		104	5520	14.85	15.50	No
		116	5580	14.95	15.50	No
		136	5680	15.31	15.50	No
		140	5700	**15.38**	15.50	Yes
	802.11n(HT20)	100	5500	12.23	13.50	No
		104	5520	12.61	13.50	No
		116	5580	12.43	13.50	No

		136	5680	12.48	13.50	No
		140	5700	**13.30**	13.50	No
	802.11n(HT40)	102	5510	10.18	11.50	No
		110	5550	10.34	11.50	No
		118	5590	10.41	11.50	No
		126	5630	10.33	11.50	No
		134	5670	**10.66**	11.50	No
	802.11ac(VHT20)	100	5500	13.21	14.50	No
		104	5520	13.67	14.50	No
		116	5580	13.33	14.50	No
		136	5680	13.69	14.50	No
		140	5700	**14.27**	14.50	No
	802.11ac(VHT40)	102	5510	10.29	11.50	No
		110	5550	**10.69**	11.50	No
		118	5590	10.41	11.50	No
		126	5630	10.65	11.50	No
		134	5670	10.52	11.50	No
	802.11ac(VHT80)	106	5530	11.18	12.50	No
		122	5610	**11.46**	12.50	No
5.8 (5.725~5.850)	802.11a	149	5745	14.45	15.50	No
		157	5785	**14.61**	15.50	No
		165	5825	14.37	15.50	No
	802.11n(HT20)	149	5745	14.60	15.50	No
		157	5785	14.60	15.50	No
		165	5825	**14.63**	15.50	No
	802.11n(HT40)	151	5755	**14.68**	15.50	No
		159	5795	14.43	15.50	No
	802.11ac(VHT20)	149	5745	14.41	15.50	No
		157	5785	14.58	15.50	No
		165	5825	**14.60**	15.50	No
	802.11ac(VHT40)	151	5755	14.46	15.50	No
		159	5795	**14.47**	15.50	No
	802.11ac(VHT80)	155	5775	**15.21**	15.50	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 ≤ 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.

9.4.8 5G WIFI-Ant.7-Level2

Band (GHz)	Mode	Channel	Freq. (MHz)	AV Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	**12.14**	13.00	No
		44	5220	12.11	13.00	No
		48	5240	11.91	13.00	No
	802.11n(HT20)	36	5180	11.83	13.00	No
		44	5220	12.12	13.00	No
		48	5240	**12.18**	13.00	No
	802.11n(HT40)	38	5190	11.98	13.00	No
		46	5230	**12.07**	13.00	No
	802.11ac(VHT20)	36	5180	11.80	13.00	No
		44	5220	**12.16**	13.00	No
		48	5240	12.07	13.00	No
	802.11ac(VHT40)	38	5190	**12.15**	13.00	No
		46	5230	12.04	13.00	No
	802.11ac(VHT80)	42	5210	**10.09**	11.50	No
5.3 (5.25~5.35)	802.11a	52	5260	**12.19**	13.00	No
		60	5300	12.05	13.00	No
		64	5320	11.88	13.00	No
	802.11n(HT20)	52	5260	11.92	13.00	No
		60	5300	**12.05**	13.00	No
		64	5320	11.83	13.00	No
	802.11n(HT40)	54	5270	11.92	13.00	No
		62	5310	**12.04**	13.00	Yes
	802.11ac(VHT20)	52	5260	11.98	13.00	No
		60	5300	**12.15**	13.00	No
		64	5320	**12.15**	13.00	No
	802.11ac(VHT40)	54	5270	**12.16**	13.00	No
		62	5310	12.06	13.00	No
	802.11ac(VHT80)	58	5290	**10.45**	11.50	No
5.6 (5.47~5.725)	802.11a	100	5500	12.38	13.00	No
		104	5520	12.30	13.00	No
		116	5580	12.47	13.00	No
		136	5680	12.41	13.00	No
		140	5700	**12.65**	13.00	Yes
	802.11n(HT20)	100	5500	**12.06**	13.00	No
		104	5520	11.83	13.00	No
		116	5580	11.91	13.00	No

		136	5680	11.81	13.00	No
		140	5700	**12.06**	13.00	No
	802.11n(HT40)	102	5510	10.43	11.50	No
		110	5550	10.30	11.50	No
		118	5590	**10.54**	11.50	No
		126	5630	10.31	11.50	No
		134	5670	10.34	11.50	No
	802.11ac(VHT20)	100	5500	12.04	13.00	No
		104	5520	11.87	13.00	No
		116	5580	11.98	13.00	No
		136	5680	**12.15**	13.00	No
		140	5700	12.02	13.00	No
	802.11ac(VHT40)	102	5510	10.29	11.50	No
		110	5550	**10.70**	11.50	No
		118	5590	10.46	11.50	No
		126	5630	10.65	11.50	No
		134	5670	10.40	11.50	No
	802.11ac(VHT80)	106	5530	11.18	12.50	No
		122	5610	**11.81**	12.50	No
5.8 (5.725~5.850)	802.11a	149	5745	11.98	13.00	No
		157	5785	12.11	13.00	No
		165	5825	**12.15**	13.00	No
	802.11n(HT20)	149	5745	11.89	13.00	No
		157	5785	12.07	13.00	No
		165	5825	**12.20**	13.00	No
	802.11n(HT40)	151	5755	11.84	13.00	No
		159	5795	**12.16**	13.00	No
	802.11ac(VHT20)	149	5745	**12.05**	13.00	No
		157	5785	11.98	13.00	No
		165	5825	11.92	13.00	No
	802.11ac(VHT40)	151	5755	**12.13**	13.00	No
		159	5795	11.88	13.00	No
	802.11ac(VHT80)	155	5775	**11.83**	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 ≤ 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.						

9.4.9 5G WIFI-Ant.7-Level3

Band (GHz)	Mode	Channel	Freq. (MHz)	AV Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	**16.38**	17.50	No
		44	5220	16.16	17.50	No
		48	5240	16.35	17.50	No
	802.11n(HT20)	36	5180	**16.55**	17.50	No
		44	5220	16.49	17.50	No
		48	5240	16.13	17.50	No
	802.11n(HT40)	38	5190	13.69	14.00	No
		46	5230	**16.02**	17.50	Yes
	802.11ac(VHT20)	36	5180	16.34	17.50	No
		44	5220	16.56	17.50	No
		48	5240	**16.59**	17.50	No
	802.11ac(VHT40)	38	5190	12.59	14.00	No
		46	5230	**16.50**	17.50	No
	802.11ac(VHT80)	42	5210	**10.09**	11.50	No
5.3 (5.25~5.35)	802.11a	52	5260	**16.46**	17.50	No
		60	5300	16.30	17.50	No
		64	5320	14.79	16.00	No
	802.11n(HT20)	52	5260	**16.44**	17.50	No
		60	5300	16.42	17.50	No
		64	5320	15.65	17.00	No
	802.11n(HT40)	54	5270	**16.35**	17.50	Yes
		62	5310	12.28	13.50	No
	802.11ac(VHT20)	52	5260	**16.63**	17.50	No
		60	5300	16.49	17.50	No
		64	5320	15.70	17.00	No
	802.11ac(VHT40)	54	5270	**16.44**	17.50	No
		62	5310	12.25	13.50	No
	802.11ac(VHT80)	58	5290	**10.08**	11.50	No
5.6 (5.47~5.725)	802.11a	100	5500	14.92	15.50	No
		104	5520	14.85	15.50	No
		116	5580	14.95	15.50	No
		136	5680	15.31	15.50	No
		140	5700	**15.38**	15.50	Yes
	802.11n(HT20)	100	5500	12.23	13.50	No
		104	5520	12.64	13.50	No
		116	5580	12.35	13.50	No

		136	5680	12.57	13.50	No
		140	5700	**13.30**	13.50	No
	802.11n(HT40)	102	5510	10.18	11.50	No
		110	5550	10.51	11.50	No
		118	5590	10.40	11.50	No
		126	5630	**10.68**	11.50	No
		134	5670	10.65	11.50	No
	802.11ac(VHT20)	100	5500	13.21	14.50	No
		104	5520	13.68	14.50	No
		116	5580	13.37	14.50	No
		136	5680	13.51	14.50	No
		140	5700	**14.27**	14.50	No
	802.11ac(VHT40)	102	5510	10.29	11.50	No
		110	5550	**10.68**	11.50	No
		118	5590	10.44	11.50	No
		126	5630	10.46	11.50	No
		134	5670	10.45	11.50	No
	802.11ac(VHT80)	106	5530	11.18	12.50	No
		122	5610	**11.51**	12.50	No
5.8 (5.725~5.850)	802.11a	149	5745	16.87	17.50	No
		157	5785	16.93	17.50	No
		165	5825	**16.94**	17.50	No
	802.11n(HT20)	149	5745	16.77	17.50	No
		157	5785	**16.80**	17.50	No
		165	5825	16.79	17.50	No
	802.11n(HT40)	151	5755	**16.95**	17.50	No
		159	5795	16.94	17.50	No
	802.11ac(VHT20)	149	5745	**16.80**	17.50	No
		157	5785	16.74	17.50	No
		165	5825	16.76	17.50	No
	802.11ac(VHT40)	151	5755	**16.96**	17.50	No
		159	5795	16.95	17.50	No
	802.11ac(VHT80)	155	5775	**16.77**	17.50	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 ≤ 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.

9.4.10 5G WIFI-Ant.7-Level4

Band (GHz)	Mode	Channel	Freq. (MHz)	AV Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	10.98	12.00	No
		44	5220	10.99	12.00	No
		48	5240	**11.19**	12.00	No
	802.11n(HT20)	36	5180	10.80	12.00	No
		44	5220	**11.08**	12.00	No
		48	5240	10.83	12.00	No
	802.11n(HT40)	38	5190	**10.79**	12.00	Yes
		46	5230	10.76	12.00	No
	802.11ac(VHT20)	36	5180	10.82	12.00	No
		44	5220	**11.01**	12.00	No
		48	5240	10.81	12.00	No
	802.11ac(VHT40)	38	5190	**11.10**	12.00	No
		46	5230	10.95	12.00	No
	802.11ac(VHT80)	42	5210	**10.09**	11.50	No
5.3 (5.25~5.35)	802.11a	52	5260	**11.19**	12.00	No
		60	5300	10.97	12.00	No
		64	5320	10.82	12.00	No
	802.11n(HT20)	52	5260	10.82	12.00	No
		60	5300	10.90	12.00	No
		64	5320	**10.98**	12.00	No
	802.11n(HT40)	54	5270	10.89	12.00	No
		62	5310	**10.95**	12.00	Yes
	802.11ac(VHT20)	52	5260	**11.11**	12.00	No
		60	5300	11.01	12.00	No
		64	5320	10.81	12.00	No
	802.11ac(VHT40)	54	5270	11.04	12.00	No
		62	5310	**11.08**	12.00	No
	802.11ac(VHT80)	58	5290	**10.08**	11.50	No
5.6 (5.47~5.725)	802.11a	100	5500	11.08	12.00	No
		104	5520	10.80	12.00	No
		116	5580	10.94	12.00	No
		136	5680	11.04	12.00	No
		140	5700	**11.14**	12.00	No
	802.11n(HT20)	100	5500	10.92	12.00	No
		104	5520	11.04	12.00	No
		116	5580	**11.19**	12.00	No

		136	5680	11.17	12.00	No
		140	5700	11.18	12.00	No
	802.11n(HT40)	102	5510	10.18	11.50	No
		110	5550	10.87	11.50	No
		118	5590	10.85	11.50	No
		126	5630	10.81	11.50	No
		134	5670	**10.88**	11.50	No
	802.11ac(VHT20)	100	5500	**11.04**	12.00	No
		104	5520	11.02	12.00	No
		116	5580	10.81	12.00	No
		136	5680	10.98	12.00	No
		140	5700	10.97	12.00	No
	802.11ac(VHT40)	102	5510	10.29	11.50	No
		110	5550	10.83	11.50	No
		118	5590	10.82	11.50	No
		126	5630	**11.18**	11.50	No
		134	5670	10.80	11.50	No
	802.11ac(VHT80)	106	5530	11.15	12.00	No
		122	5610	**11.76**	12.00	Yes
5.8 (5.725~5.850)	802.11a	149	5745	11.06	12.00	No
		157	5785	11.02	12.00	No
		165	5825	**11.13**	12.00	No
	802.11n(HT20)	149	5745	10.85	12.00	No
		157	5785	10.84	12.00	No
		165	5825	**10.92**	12.00	No
	802.11n(HT40)	151	5755	10.81	12.00	No
		159	5795	**11.15**	12.00	No
	802.11ac(VHT20)	149	5745	**11.15**	12.00	No
		157	5785	10.81	12.00	No
		165	5825	10.98	12.00	No
	802.11ac(VHT40)	151	5755	11.11	12.00	No
		159	5795	**11.18**	12.00	No
	802.11ac(VHT80)	155	5775	**10.88**	12.00	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 ≤ 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.						

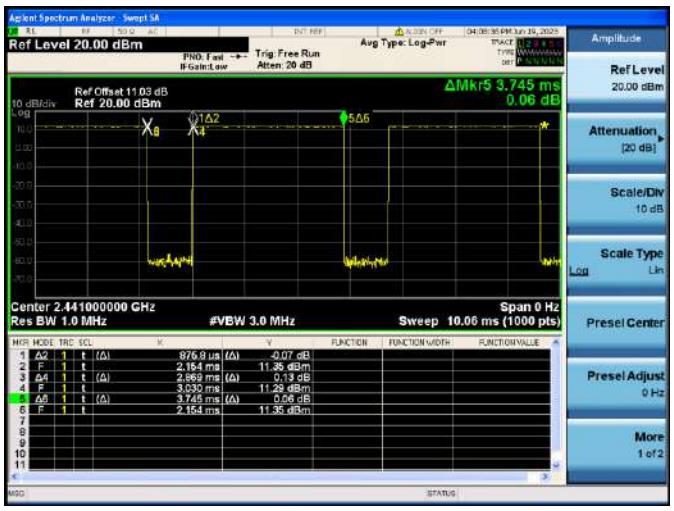
9.5 Bluetooth

Mode	GFSK				π/4-DQPSK			
Channel	0	39	56	78	0	39	56	78
Frequency (MHz)	2402	2441	2458	2480	2402	2441	2458	2480
Average Power (dBm)	10.88	11.71	12.24	11.80	8.46	8.48	8.68	8.76
Tune-Up Limit (dBm)	14.00	14.00	14.00	14.00	10.50	10.50	10.50	10.50
SAR Test Require	YES	YES	YES	YES	NO	NO	NO	NO
Mode	8-DPSK				/			
Channel	0	39	56	78	/	/	/	
Frequency (MHz)	2402	2441	2458	2480	/	/	/	
Average Power (dBm)	8.39	8.47	8.73	8.73	/	/	/	
Tune-Up Limit (dBm)	10.50	10.50	10.50	10.50	/	/	/	
SAR Test Require	NO	NO	NO	NO	NO	NO	NO	
Mode	BLE-1Mbps				BLE-2Mbps			
Channel	0	19	39		0	19	39	
Frequency (MHz)	2402	2440	2480		2402	2440	2480	
Average Power (dBm)	5.45	6.18	5.83		5.71	6.32	6.13	
Tune-Up Limit (dBm)	7.00	7.00	7.00		7.00	7.00	7.00	
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.								

The Bluetooth duty cycle GFSK is 76.61 % as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

Duty Cycle

GFSK



9.6 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**
State7	On (Head scenario)	WWAN Only
State9	On (Head scenario)	WWAN + WLAN2.4G& WWAN+WLAN 5G + BT
State6	Off (Body scenario)	WWAN Only
State8	Off (Body scenario)	WWAN + WLAN2.4G& WWAN+WLAN 5G + BT

Mode	Antenna	WWAN Antenna				
		Full Power	Head		Body	
			Receiver on		Receiver off	
			State7	State9	State6	State8
GSM 850	Ant.0	33.50	33.50	33.50	33.50	33.50
GPRS850 1 Tx Slot	Ant.0	33.50	33.50	33.50	33.50	33.50
GPRS850 2 Tx Slots	Ant.0	31.00	31.00	31.00	31.00	31.00
GPRS850 3 Tx Slots	Ant.0	29.20	29.20	29.20	29.20	29.20
GPRS850 4 Tx Slots	Ant.0	28.00	28.00	28.00	28.00	28.00
EGPRS850 1 Tx Slot	Ant.0	28.00	28.00	28.00	28.00	28.00
EGPRS850 2 Tx Slots	Ant.0	25.00	25.00	25.00	25.00	25.00
EGPRS850 3 Tx Slots	Ant.0	23.00	23.00	23.00	23.00	23.00
EGPRS850 4 Tx Slots	Ant.0	22.50	22.50	22.50	22.50	22.50
GSM 850	Ant.1	33.30	30.80	30.30	33.30	33.30
GPRS850 1 Tx Slot	Ant.1	33.50	31.00	30.50	33.50	33.50
GPRS850 2 Tx Slots	Ant.1	31.00	28.50	28.00	31.00	31.00
GPRS850 3 Tx Slots	Ant.1	29.20	26.70	26.20	29.20	29.20
GPRS850 4 Tx Slots	Ant.1	28.00	25.50	25.00	28.00	28.00
EGPRS850 1 Tx Slot	Ant.1	28.00	25.50	25.00	28.00	28.00
EGPRS850 2 Tx Slots	Ant.1	25.00	22.50	22.00	25.00	25.00
EGPRS850 3 Tx Slots	Ant.1	23.00	20.50	20.00	23.00	23.00
EGPRS850 4 Tx Slots	Ant.1	22.50	20.00	19.50	22.50	22.50
GSM 1900	Ant.0	30.50	30.50	30.50	30.50	30.50
GPRS1900 1 Tx Slot	Ant.0	30.50	30.50	30.50	30.50	30.50
GPRS1900 2 Tx Slots	Ant.0	28.00	28.00	28.00	28.00	28.00
GPRS1900 3 Tx Slots	Ant.0	26.20	26.20	26.20	26.20	26.20
GPRS1900 4 Tx Slots	Ant.0	25.00	25.00	25.00	25.00	25.00
EGPRS1900 1 Tx Slot	Ant.0	26.50	26.50	26.50	26.50	26.50
EGPRS1900 2 Tx Slots	Ant.0	24.00	24.00	24.00	24.00	24.00
EGPRS1900 3 Tx Slots	Ant.0	22.10	22.10	22.10	22.10	22.10
EGPRS1900 4 Tx Slots	Ant.0	21.50	21.50	21.50	21.50	21.50
GSM 1900	Ant.1	30.00	26.00	25.50	30.00	29.00
GPRS1900 1 Tx Slot	Ant.1	30.50	26.50	26.00	30.50	29.50
GPRS1900 2 Tx Slots	Ant.1	28.00	24.00	23.50	28.00	27.00
GPRS1900 3 Tx Slots	Ant.1	26.20	22.20	21.70	26.20	25.20
GPRS1900 4 Tx Slots	Ant.1	25.00	21.00	20.50	25.00	24.00
EGPRS1900 1 Tx Slot	Ant.1	26.50	22.50	22.00	26.50	25.50
EGPRS1900 2 Tx Slots	Ant.1	24.00	20.00	19.50	24.00	23.00
EGPRS1900 3 Tx Slots	Ant.1	22.10	18.10	17.60	22.10	21.10
EGPRS1900 4 Tx Slots	Ant.1	21.50	17.50	17.00	21.50	20.50
WCDMA Band2 RMC	Ant.0	23.30	23.30	23.30	22.80	22.80
AMR	Ant.0	24.30	24.30	24.30	23.80	23.80

HSDPA Subtest-1	Ant.0	22.80	22.80	22.80	22.30	22.30
HSDPA Subtest-2	Ant.0	22.80	22.80	22.80	22.30	22.30
HSDPA Subtest-3	Ant.0	22.30	22.30	22.30	21.80	21.80
HSDPA Subtest-4	Ant.0	22.30	22.30	22.30	21.80	21.80
DC-HSDPA Subtest-1	Ant.0	22.80	22.80	22.80	22.30	22.30
DC-HSDPA Subtest-2	Ant.0	22.80	22.80	22.80	22.30	22.30
DC-HSDPA Subtest-3	Ant.0	22.30	22.30	22.30	21.80	21.80
DC-HSDPA Subtest-4	Ant.0	22.30	22.30	22.30	21.80	21.80
HSUPA Subtest-1	Ant.0	21.20	21.20	21.20	20.70	20.70
HSUPA Subtest-2	Ant.0	19.60	19.60	19.60	19.10	19.10
HSUPA Subtest-3	Ant.0	20.70	20.70	20.70	20.20	20.20
HSUPA Subtest-4	Ant.0	20.10	20.10	20.10	19.60	19.60
HSUPA Subtest-5	Ant.0	22.70	22.70	22.70	22.20	22.20
HSPA+	Ant.0	22.80	22.80	22.80	22.30	22.30
WCDMA Band2 RMC	Ant.1	23.80	18.80	18.30	21.30	20.80
AMR	Ant.1	23.80	18.30	17.80	20.80	20.30
HSDPA Subtest-1	Ant.1	22.30	17.80	17.30	20.30	19.80
HSDPA Subtest-2	Ant.1	22.30	17.80	17.30	20.30	19.80
HSDPA Subtest-3	Ant.1	21.80	17.30	16.80	19.80	19.30
HSDPA Subtest-4	Ant.1	21.80	17.30	16.80	19.80	19.30
DC-HSDPA Subtest-1	Ant.1	22.30	17.80	17.30	20.30	19.80
DC-HSDPA Subtest-2	Ant.1	22.30	17.80	17.30	20.30	19.80
DC-HSDPA Subtest-3	Ant.1	21.80	17.30	16.80	19.80	19.30
DC-HSDPA Subtest-4	Ant.1	21.80	17.30	16.80	19.80	19.30
HSUPA Subtest-1	Ant.1	20.70	15.80	15.30	18.30	17.80
HSUPA Subtest-2	Ant.1	19.10	14.80	14.30	17.30	16.80
HSUPA Subtest-3	Ant.1	20.20	15.80	15.30	18.30	17.80
HSUPA Subtest-4	Ant.1	19.60	14.80	14.30	17.30	16.80
HSUPA Subtest-5	Ant.1	22.20	17.80	17.30	20.30	19.80
HSPA+	Ant.1	22.30	19.80	19.30	22.30	21.80
WCDMA Band4 RMC	Ant.0	23.80	23.80	23.80	21.30	20.80
AMR	Ant.0	24.30	24.30	24.30	21.80	21.30
HSDPA Subtest-1	Ant.0	23.30	23.30	23.30	20.80	20.30
HSDPA Subtest-2	Ant.0	23.30	23.30	23.30	20.80	20.30
HSDPA Subtest-3	Ant.0	22.80	22.80	22.80	20.30	19.80
HSDPA Subtest-4	Ant.0	22.80	22.80	22.80	20.30	19.80
DC-HSDPA Subtest-1	Ant.0	23.30	23.30	23.30	20.80	20.30
DC-HSDPA Subtest-2	Ant.0	23.30	23.30	23.30	20.80	20.30
DC-HSDPA Subtest-3	Ant.0	22.80	22.80	22.80	20.30	19.80
DC-HSDPA Subtest-4	Ant.0	22.80	22.80	22.80	20.30	19.80
HSUPA Subtest-1	Ant.0	20.90	20.90	20.90	18.40	17.90
HSUPA Subtest-2	Ant.0	19.60	19.60	19.60	17.10	16.60
HSUPA Subtest-3	Ant.0	20.40	20.40	20.40	17.90	17.40

HSUPA Subtest-4	Ant.0	19.80	19.80	19.80	17.30	16.80
HSUPA Subtest-5	Ant.0	22.40	22.40	22.40	19.90	19.40
HSPA+	Ant.0	22.80	22.80	22.80	20.30	19.80
WCDMA Band4 RMC	Ant.1	23.80	19.80	19.30	21.30	21.30
AMR	Ant.1	23.80	19.80	19.30	21.30	21.30
HSDPA Subtest-1	Ant.1	22.80	18.80	18.30	20.30	20.30
HSDPA Subtest-2	Ant.1	22.80	18.80	18.30	20.30	20.30
HSDPA Subtest-3	Ant.1	22.30	18.30	17.80	19.80	19.80
HSDPA Subtest-4	Ant.1	22.30	18.30	17.80	19.80	19.80
DC-HSDPA Subtest-1	Ant.1	22.80	18.80	18.30	20.30	20.30
DC-HSDPA Subtest-2	Ant.1	22.80	18.80	18.30	20.30	20.30
DC-HSDPA Subtest-3	Ant.1	22.30	18.30	17.80	19.80	19.80
DC-HSDPA Subtest-4	Ant.1	22.30	18.30	17.80	19.80	19.80
HSUPA Subtest-1	Ant.1	20.40	16.40	15.90	17.90	17.90
HSUPA Subtest-2	Ant.1	19.10	15.10	14.60	16.60	16.60
HSUPA Subtest-3	Ant.1	19.90	15.90	15.40	17.40	17.40
HSUPA Subtest-4	Ant.1	19.30	15.30	14.80	16.80	16.80
HSUPA Subtest-5	Ant.1	21.90	17.90	17.40	19.40	19.40
HSPA+	Ant.1	22.30	18.30	17.80	19.80	19.80
WCDMA Band5 RMC	Ant.0	24.30	24.30	24.30	24.30	24.30
AMR	Ant.0	24.80	24.80	24.80	24.80	24.80
HSDPA Subtest-1	Ant.0	23.60	23.60	23.60	23.60	23.60
HSDPA Subtest-2	Ant.0	23.60	23.60	23.60	23.60	23.60
HSDPA Subtest-3	Ant.0	23.10	23.10	23.10	23.10	23.10
HSDPA Subtest-4	Ant.0	23.10	23.10	23.10	23.10	23.10
DC-HSDPA Subtest-1	Ant.0	23.60	23.60	23.60	23.60	23.60
DC-HSDPA Subtest-2	Ant.0	23.60	23.60	23.60	23.60	23.60
DC-HSDPA Subtest-3	Ant.0	23.10	23.10	23.10	23.10	23.10
DC-HSDPA Subtest-4	Ant.0	23.10	23.10	23.10	23.10	23.10
HSUPA Subtest-1	Ant.0	22.10	22.10	22.10	22.10	22.10
HSUPA Subtest-2	Ant.0	20.60	20.60	20.60	20.60	20.60
HSUPA Subtest-3	Ant.0	21.60	21.60	21.60	21.60	21.60
HSUPA Subtest-4	Ant.0	21.20	21.20	21.20	21.20	21.20
HSUPA Subtest-5	Ant.0	23.60	23.60	23.60	23.60	23.60
HSPA+	Ant.0	23.30	23.30	23.30	23.30	23.30
WCDMA Band5 RMC	Ant.1	24.60	22.60	22.10	24.10	24.10
AMR	Ant.1	24.30	22.30	21.80	24.60	24.60
HSDPA Subtest-1	Ant.1	23.80	21.80	21.30	23.40	23.40
HSDPA Subtest-2	Ant.1	23.30	21.30	20.80	23.40	23.40
HSDPA Subtest-3	Ant.1	22.80	20.80	20.30	22.90	22.90
HSDPA Subtest-4	Ant.1	22.80	20.80	20.30	22.90	22.90
DC-HSDPA Subtest-1	Ant.1	23.80	21.80	21.30	23.40	23.40
DC-HSDPA Subtest-2	Ant.1	23.30	21.30	20.80	23.40	23.40

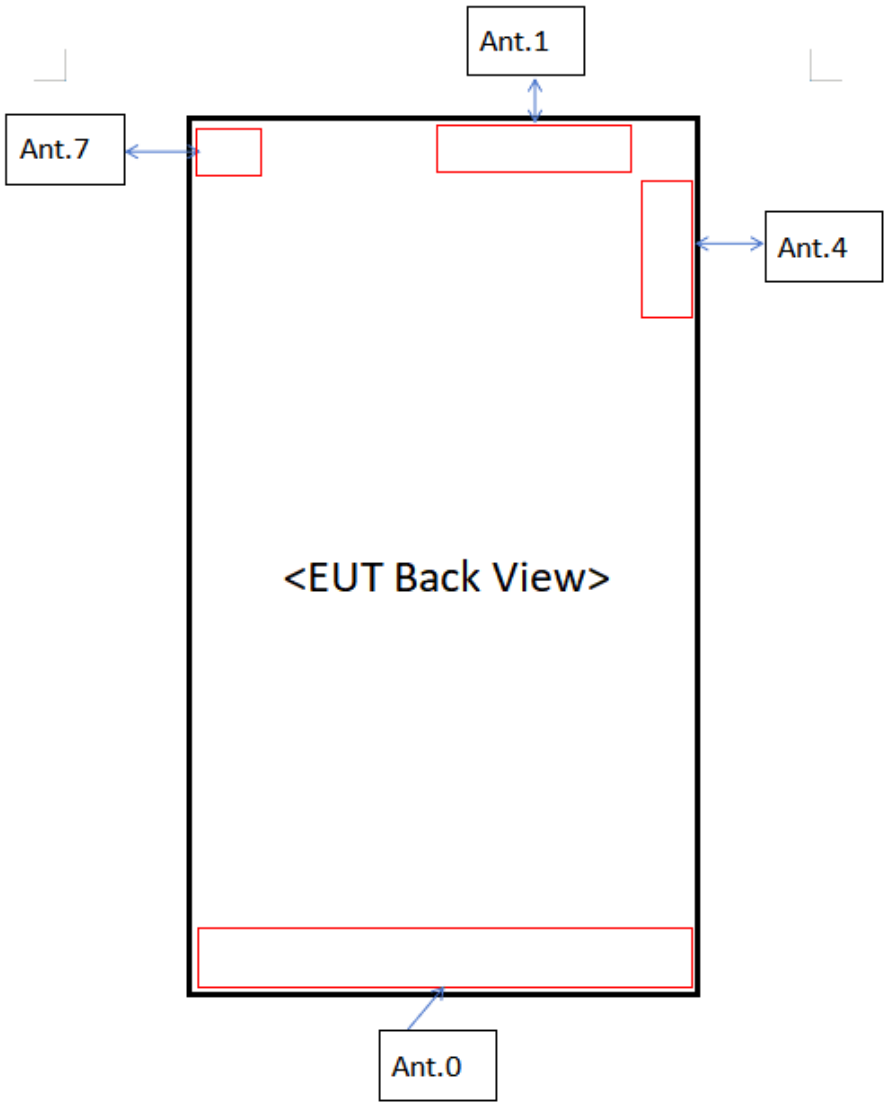
DC-HSDPA Subtest-3	Ant.1	22.80	20.80	20.30	22.90	22.90
DC-HSDPA Subtest-4	Ant.1	22.80	20.80	20.30	22.90	22.90
HSUPA Subtest-1	Ant.1	21.80	19.80	19.30	21.90	21.90
HSUPA Subtest-2	Ant.1	20.80	18.80	18.30	20.40	20.40
HSUPA Subtest-3	Ant.1	21.30	19.30	18.80	21.40	21.40
HSUPA Subtest-4	Ant.1	20.80	18.80	18.30	21.00	21.00
HSUPA Subtest-5	Ant.1	23.80	21.80	21.30	23.40	23.40
HSPA+	Ant.1	25.80	23.80	23.30	23.10	23.10
LTE Band2	Ant.0	23.30	23.30	23.30	23.30	23.30
LTE Band2	Ant.1	22.80	18.80	18.30	21.30	21.30
LTE Band4	Ant.0	24.30	24.30	24.30	22.80	22.80
LTE Band4	Ant.1	23.80	19.30	18.80	22.30	21.80
LTE Band5	Ant.0	24.80	24.80	24.80	24.80	24.80
LTE Band5	Ant.1	24.60	22.60	22.10	24.60	24.60
LTE Band7	Ant.0	24.30	24.30	24.30	23.80	23.30
LTE Band7	Ant.1	23.80	16.30	15.80	21.30	20.80
LTE Band7	Ant.4	23.30	23.30	23.30	23.30	22.80
LTE Band12	Ant.0	24.60	24.60	24.60	24.60	24.60
LTE Band12	Ant.1	24.40	23.90	23.40	24.40	24.40
LTE Band13	Ant.0	24.40	24.40	24.40	24.40	24.40
LTE Band13	Ant.1	24.10	23.10	22.60	24.10	24.10
LTE Band17	Ant.0	24.60	24.60	24.60	24.60	24.60
LTE Band17	Ant.1	24.40	24.40	24.40	24.40	24.40
LTE Band26	Ant.0	24.80	24.80	24.80	24.80	24.80
LTE Band26	Ant.1	24.60	22.60	22.10	24.60	24.60
LTE Band38	Ant.0	23.80	23.80	23.80	23.80	23.80
LTE Band38	Ant.1	23.30	19.30	18.80	23.30	23.30
LTE Band38	Ant.4	22.80	22.80	22.80	22.80	22.80
LTE Band41(PC2)	Ant.0	25.80	25.80	25.80	25.80	25.80
LTE Band41(PC2)	Ant.1	25.30	20.30	21.80	25.30	25.30
LTE Band41(PC2)	Ant.4	24.80	24.80	24.80	24.80	24.80

WLAN&BT Reduced power level table

Reduced State	Receiver state	Transmitting conditions
Level1	On (Head scenario)	WLAN 2.4G Only WLAN 5G Only WLAN 5G+BT
Level2	On (Head scenario)	WWAN+WLAN2.4G WWAN+WLAN5G+BT
Level3	Off (Body scenario)	WLAN 2.4G Only WLAN 5G Only WLAN 5G+BT
Level4	Off (Body scenario)	WWAN+WLAN2.4G WWAN+WLAN5G+BT

Mode	WLAN Antenna Chain0				
	Full Power	Head		Body	
		Receiver on		Receiver off	
		Level1	Level2	Level3	Level4
2.4G WLAN 802.11b	14.50	14.50	11.00	14.50	13.50
2.4G WLAN 802.11g	17.00	16.50	11.00	17.00	13.50
2.4G WLAN 802.11n20	17.00	16.50	11.00	17.00	13.50
2.4G WLAN 802.11n40	16.50	16.50	11.00	16.50	13.50
2.4G WLAN 802.11ac20	17.00	16.50	11.00	17.00	13.50
2.4G WLAN 802.11ac40	16.50	16.50	11.00	16.50	13.50
5.2G WLAN 802.11a	18.00	15.50	13.00	17.50	12.00
5.2G WLAN 802.11n20	18.00	15.50	13.00	17.50	12.00
5.2G WLAN 802.11n40	18.00	15.50	13.00	17.50	12.00
5.2G WLAN 802.11ac20	18.00	15.50	13.00	17.50	12.00
5.2G WLAN 802.11ac40	18.00	15.50	13.00	17.50	12.00
5.2G WLAN 802.11ac80	11.50	11.50	11.50	11.50	11.50
5.3G WLAN 802.11a	18.00	15.50	13.00	17.50	12.00
5.3G WLAN 802.11n20	18.00	15.50	13.00	17.50	12.00
5.3G WLAN 802.11n40	18.00	15.50	13.00	17.50	12.00
5.3G WLAN 802.11ac20	18.00	15.50	13.00	17.50	12.00
5.3G WLAN 802.11ac40	18.00	15.50	13.00	17.50	12.00
5.3G WLAN 802.11ac80	11.50	11.50	11.50	11.50	11.50
5.6G WLAN 802.11a	15.50	15.50	13.00	15.50	12.00
5.6G WLAN 802.11n20	13.50	13.50	13.00	13.50	12.00
5.6G WLAN 802.11n40	11.50	11.50	11.50	11.50	11.50
5.6G WLAN 802.11ac20	14.50	14.50	13.00	14.50	12.00
5.6G WLAN 802.11ac40	11.50	11.50	11.50	11.50	11.50
5.6G WLAN 802.11ac80	12.50	12.50	12.50	12.50	12.00
5.8G WLAN 802.11a	17.50	15.50	13.00	17.50	12.00
5.8G WLAN 802.11n20	17.50	15.50	13.00	17.50	12.00
5.8G WLAN 802.11n40	17.50	15.50	13.00	17.50	12.00
5.8G WLAN 802.11ac20	17.50	15.50	13.00	17.50	12.00
5.8G WLAN 802.11ac40	17.50	15.50	13.00	17.50	12.00
5.8G WLAN 802.11ac80	17.50	15.50	13.00	17.50	12.00
Bluetooth	17.50	15.50	13.00	17.50	12.00

10 TEST EXCLUSION CONSIDERATION



Antenna	Support Bands
Ant 0	GSM850/1900, WCDMA 2/4/5, LTE B2/4/5/7/12/13/17/26/38/41
Ant 1	GSM850/1900, WCDMA 2/4/5, LTE B2/4/5/7/12/13/17/26/38/41
Ant 4	LTE B7/38/41
Ant 7	WIFI2.4G/5G; Bluetooth

10.1SAR Test Exclusion Consideration Table

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

Antenna	Front Side(mm)	Back Side(mm)	Left Edge(mm)	Right Edge(mm)	Top Edge(mm)	Bottom Edge(mm)
Ant.0	<25	<25	<25	<25	>25	<25
Ant.1	<25	<25	>25	<25	<25	>25
Ant.3	<25	<25	<25	>25	<25	>25
Ant.4	<25	<25	>25	<25	<25	>25
Ant.5	<25	<25	>25	<25	>25	<25
Ant.6	<25	<25	<25	>25	<25	>25
Ant.7	<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.						

11 TEST RESULT

11.1 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.
Head													
Ant.1	State7	DATA 2slots	Left Cheek	0	128	824.2	-0.13	0.365	27.99	28.50	1.125	0.411	/
	State7		Left Tilt	0	128	824.2	-0.05	0.502	27.99	28.50	1.125	0.565	/
	State7		Right Cheek	0	128	824.2	-0.07	0.664	27.99	28.50	1.125	**0.747**	1#
	State7		Right Tilt	0	128	824.2	-0.06	0.522	27.99	28.50	1.125	0.587	/
Body-worn													
Ant.1	State6	DATA 2slots	Back Side	15	190	836.6	-0.06	0.172	30.98	31.00	1.005	**0.173**	2#
Hotspot													
Ant.1	State8	DATA 2slots	Back Side	10	190	836.6	-0.09	0.342	30.98	31.00	1.005	**0.344**	3#
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

11.2 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.
Head													
Ant.1	State7	DATA 2Slots	Left Cheek	0	661	1880	-0.18	0.438	23.41	24.00	1.146	0.502	/
	State7		Left Tilt	0	661	1880	-0.18	0.550	23.41	24.00	1.146	0.630	/
	State7		Right Cheek	0	661	1880	-0.15	0.756	23.41	24.00	1.146	0.866	/
	State7		Right Tilt	0	661	1880	0.00	0.902	23.41	24.00	1.146	1.034	/
	State7		Right Tilt	0	810	1909.8	-0.02	0.994	23.25	24.00	1.189	**1.182**	4#
	State7		Right Tilt	0	512	1850.2	-0.10	0.885	23.28	24.00	1.180	1.044	/
	State9	DATA 2Slots	Left Cheek	0	661	1880	0.14	0.405	22.96	23.50	1.132	0.458	/
	State9		Left Tilt	0	661	1880	-0.16	0.499	22.96	23.50	1.132	0.565	/
	State9		Right Cheek	0	661	1880	0.06	0.736	22.96	23.50	1.132	0.833	/
	State9		Right Tilt	0	661	1880	0.03	0.818	22.96	23.50	1.132	0.926	/
	State4		Right Tilt	0	810	1909.8	0.02	0.810	22.72	23.50	1.197	0.970	/
	State4		Right Tilt	0	512	1850.2	0.09	0.734	22.83	23.50	1.167	0.857	/
Body-worn													
Ant.1	State6&8	DATA 2slots	Front Side	15	661	1880	0.01	0.122	26.42	26.50	1.019	0.124	/
	State6&8		Back Side	15	661	1880	0.06	0.142	26.42	26.50	1.019	0.145	5#
Ant.0	State6&8	DATA 2slots	Back Side	15	661	1880	0.01	0.257	27.99	28.00	1.002	**0.258**	6#
Hotspot													
Ant.1	State8	DATA 2Slots	Front Side	10	661	1880	0.16	0.202	26.42	26.50	1.019	0.206	/
	State8		Back Side	10	661	1880	0.08	0.274	26.42	26.50	1.019	0.279	/
	State8		Right Edge	10	661	1880	-0.11	0.063	26.42	26.50	1.019	0.064	/
	State8		Top Edge	10	661	1880	0.03	0.495	26.42	26.50	1.019	**0.504**	7#
	State8		Top Edge	10	810	1909.8	0.01	0.477	26.40	26.50	1.023	0.488	
	State8		Top Edge	10	512	1850.2	0.19	0.445	26.38	26.50	1.028	0.457	
Ant.0	State8	DATA 2Slots	Bottom Edge	10	661	1880	-0.02	0.610	27.99	28.00	1.002	**0.611**	8#
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

11.3WCDMA 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.
Head													
Ant.1	State7	RMC	Right Tilt	0	9262	1852.4	0.08	0.919	18.09	18.80	1.178	**1.083**	9#
Body-worn													
Ant.1	State6	RMC	Back Side	15	9262	1852.4	0.07	0.123	20.62	21.30	1.169	**0.144**	10#
Ant.0	State6&8	RMC	Front Side	15	9400	1880	-0.08	0.155	22.71	23.80	1.285	0.199	/
	State6&8		Back Side	15	9400	1880	-0.05	0.307	22.71	23.80	1.285	**0.394**	11#
Hotspot													
Ant.1	State8	RMC	Top Edge	10	9262	1852.4	0.08	0.427	20.13	20.80	1.167	**0.498**	12#
Ant.0	State8	RMC	Front Side	10	9400	1880	0.02	0.288	22.71	23.80	1.285	0.370	/
	State8		Back Side	10	9400	1880	-0.12	0.599	22.71	23.80	1.285	0.770	/
	State8		Left Edge	10	9400	1880	0.04	0.144	22.71	23.80	1.285	0.185	/
	State8		Right Edge	10	9400	1880	0.05	0.074	22.71	23.80	1.285	0.095	/
	State8		Bottom Edge	10	9400	1880	0.09	0.779	22.71	23.80	1.285	**1.001**	13#
	State8		Bottom Edge	10	9262	1852.4	0.03	0.753	22.63	23.80	1.309	0.986	/
	State8		Bottom Edge	10	9538	1907.6	0.11	0.741	22.59	23.80	1.321	0.979	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

11.4WCDMA 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.
Head													
Ant.1	State7&9	RMC	Left Cheek	0	1312	1712.4	-0.19	0.411	17.06	17.80	1.186	0.487	/
	State7&9		Left Tilt	0	1312	1712.4	0.06	0.502	17.06	17.80	1.186	0.595	/
	State7&9		Right Cheek	0	1312	1712.4	-0.02	0.806	17.06	17.80	1.186	0.956	/
	State7&9		Right Tilt	0	1412	1732.4	0.01	0.785	16.94	17.80	1.219	0.957	/
	State7&9		Right Tilt	0	1513	1752.6	0.06	0.794	17.02	17.80	1.197	0.950	/
	State7&9		Right Tilt	0	1312	1712.4	-0.08	0.823	17.06	17.80	1.186	0.976	/
	State7&9		Right Tilt	0	1412	1732.4	0.01	0.846	16.94	17.80	1.219	1.031	/
	State7&9		Right Tilt	0	1513	1752.6	0.09	0.872	17.02	17.80	1.197	**1.044**	14#
Body-worn													
Ant.1	State6	RMC	Front Side	15	1312	1712.4	-0.16	0.124	20.36	21.30	1.242	0.154	/
	State6		Back Side	15	1312	1712.4	-0.15	0.136	20.36	21.30	1.242	**0.169**	/
Ant.0	State6&8	RMC	Front Side	15	1312	1712.4	-0.03	0.197	22.21	23.30	1.285	0.253	/
	State6&8		Back Side	15	1312	1712.4	0.01	0.350	22.21	23.30	1.285	**0.450**	15#
Hotspot													
Ant.1	State8	RMC	Top Edge	10	1312	1712.4	0.08	0.383	20.36	21.30	1.242	**0.476**	16#
Ant.0	State8	RMC	Front Side	10	1312	1712.4	-0.10	0.307	22.21	23.30	1.285	0.394	/
	State8		Back Side	10	1312	1712.4	-0.10	0.582	22.21	23.30	1.285	0.748	/
	State8		Left Edge	10	1312	1712.4	0.13	0.096	22.21	23.30	1.285	0.123	/
	State8		Right Edge	10	1312	1712.4	0.05	0.056	22.21	23.30	1.285	0.072	/
	State8		Bottom Edge	10	1312	1712.4	-0.01	0.919	22.21	23.30	1.285	**1.181**	17#
	State8		Bottom Edge	10	1412	1732.4	0.02	0.887	22.16	23.30	1.300	1.153	/
	State8		Bottom Edge	10	1513	1752.6	-0.09	0.895	22.13	23.30	1.309	1.172	/
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	10g Scaled SAR (W/kg)	Meas. No.
Specific													
Ant.0	State8	RMC	Bottom Edge	0	1312	1712.4	-0.07	2.170	22.21	23.30	1.285	**2.788**	18#
	State8		Bottom Edge	0	1312	1712.4	0.03	2.050	22.16	23.30	1.300	2.665	/
	State8		Bottom Edge	0	1312	1712.4	0.11	2.090	22.13	23.30	1.309	2.736	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

11.5WCDMA 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.
Head													
Ant.1	State7	RMC	Left Cheek	0	4132	826.4	-0.12	0.355	21.76	22.60	1.213	0.431	/
	State7		Left Tilt	0	4132	826.4	-0.12	0.316	21.76	22.60	1.213	0.383	/
	State7		Right Cheek	0	4132	826.4	-0.17	0.601	21.76	22.60	1.213	**0.729**	19#
	State7		Right Tilt	0	4132	826.4	-0.18	0.454	21.76	22.60	1.213	0.551	/
	State9	RMC	Left Cheek	0	4132	826.4	-0.07	0.308	21.27	22.10	1.211	0.373	/
	State9		Left Tilt	0	4132	826.4	-0.08	0.266	21.27	22.10	1.211	0.322	/
	State9		Right Cheek	0	4132	826.4	0.04	0.563	21.27	22.10	1.211	0.682	/
	State9		Right Tilt	0	4132	826.4	0.12	0.412	21.27	22.10	1.211	0.499	/
Body-worn													
Ant.0	State6&8	RMC	Back Side	15	4182	836.4	-0.01	0.174	24.01	24.80	1.199	**0.209**	20#
Hotspot													
Ant.0	State8	RMC	Back Side	10	4182	836.4	-0.13	0.250	24.01	24.80	1.199	**0.300**	21#
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

11.6 LTE 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.
Head															
Ant.1	State7	QPSK	Right Tilt	0	18700	1860	50	Mid	0.12	0.932	18.08	18.80	1.180	**1.100**	22#
Ant.1	State9	QPSK	Left Cheek	0	19100	1900	1	Mid	-0.11	0.378	17.26	18.30	1.271	0.480	/
	State9		Left Tilt	0	19100	1900	1	Mid	0.13	0.487	17.26	18.30	1.271	0.619	/
	State9		Right Cheek	0	19100	1900	1	Mid	0.01	0.680	17.26	18.30	1.271	0.864	/
	State9		Right Tilt	0	19100	1900	1	Mid	0.00	0.769	17.26	18.30	1.271	0.977	/
	State9		Left Cheek	0	19100	1900	50	Mid	-0.04	0.384	17.18	18.30	1.294	0.497	/
	State9		Left Tilt	0	19100	1900	50	Mid	-0.17	0.493	17.18	18.30	1.294	0.638	/
	State9		Right Cheek	0	19100	1900	50	Mid	-0.10	0.680	17.18	18.30	1.294	0.880	/
	State9		Right Tilt	0	19100	1900	50	Mid	0.10	0.785	17.18	18.30	1.294	1.016	/
	State9		Right Tilt	0	18700	1860	1	Mid	0.16	0.764	17.11	18.30	1.315	1.005	/
	State9		Right Tilt	0	18900	1880	1	Mid	0.17	0.789	17.21	18.30	1.285	1.014	/
	State9		Right Tilt	0	18700	1860	50	Mid	0.03	0.777	17.11	18.30	1.315	1.022	/
	State9		Right Tilt	0	18900	1880	50	Mid	0.04	0.791	17.15	18.30	1.303	1.031	/
	State9		Right Tilt	0	19100	1900	100	Low	0.10	0.781	17.10	18.30	1.318	1.029	/
Body-worn															
Ant.1	State8	QPSK	Front Side	15	19100	1900	1	Mid	0.00	0.142	20.43	21.30	1.222	0.174	/
	State8		Back Side	15	19100	1900	1	Mid	-0.04	0.163	20.43	21.30	1.222	0.199	/
	State8		Front Side	15	19100	1900	50	Low	-0.03	0.150	20.39	21.30	1.233	0.185	/
	State8		Back Side	15	19100	1900	50	Low	-0.09	0.163	20.39	21.30	1.233	0.201	/
Ant.0	State6&8	QPSK	Front Side	15	19100	1900	1	Mid	-0.04	0.152	22.28	23.30	1.265	0.192	/
	State6&8		Back Side	15	19100	1900	1	Mid	-0.07	0.305	22.28	23.30	1.265	**0.386**	23#
	State6&8		Front Side	15	19100	1900	50	Low	0.15	0.132	21.22	22.20	1.253	0.165	/
	State6&8		Back Side	15	19100	1900	50	Low	-0.17	0.256	21.22	22.20	1.253	0.321	/
Hotspot															
Ant.1	State8	QPSK	Front Side	10	19100	1900	1	Mid	-0.11	0.310	20.43	21.30	1.222	0.379	/
	State8		Back Side	10	19100	1900	1	Mid	-0.12	0.331	20.43	21.30	1.222	0.404	/
	State8		Right Edge	10	19100	1900	1	Mid	0.09	0.067	20.43	21.30	1.222	0.082	/
	State8		Top Edge	10	19100	1900	1	Mid	0.02	0.544	20.43	21.30	1.222	0.665	/
	State8		Front Side	10	19100	1900	50	Low	0.13	0.312	20.39	21.30	1.233	0.385	/
	State8		Back Side	10	19100	1900	50	Low	0.01	0.336	20.39	21.30	1.233	0.414	/

	State8		Right Edge	10	19100	1900	50	Low	0.17	0.067	20.39	21.30	1.233	0.083	/
	State8		Top Edge	10	19100	1900	50	Low	-0.11	0.570	20.39	21.30	1.233	0.703	/
Ant.0	State8	QPSK	Front Side	10	19100	1900	1	Mid	-0.15	0.261	22.28	23.30	1.265	0.330	/
	State8		Back Side	10	19100	1900	1	Mid	-0.19	0.502	22.28	23.30	1.265	0.635	/
	State8		Left Edge	10	19100	1900	1	Mid	-0.04	0.145	22.28	23.30	1.265	0.183	/
	State8		Right Edge	10	19100	1900	1	Mid	0.07	0.055	22.28	23.30	1.265	0.070	
	State8		Bottom Edge	10	19100	1900	1	Mid	0.00	0.741	22.28	23.30	1.265	0.937	/
	State8		Front Side	10	19100	1900	50	Low	-0.13	0.206	21.22	22.20	1.253	0.258	/
	State8		Back Side	10	19100	1900	50	Low	-0.01	0.434	21.22	22.20	1.253	0.544	/
	State8		Left Edge	10	19100	1900	50	Low	0.02	0.123	21.22	22.20	1.253	0.154	/
	State8		Right Edge	10	19100	1900	50	Low	-0.07	0.051	21.22	22.20	1.253	0.064	
	State8		Bottom Edge	10	19100	1900	50	Low	0.14	0.622	21.22	22.20	1.253	0.779	/
	State8		Bottom Edge	10	18700	1860	1	Mid	0.10	0.741	22.09	23.30	1.321	0.979	/
	State8		Bottom Edge	10	18900	1880	1	Mid	-0.05	0.775	22.21	23.30	1.285	**0.996**	24#
	State8		Bottom Edge	10	18700	1860	50	Mid	0.18	0.612	21.12	22.20	1.282	0.785	/
	State8		Bottom Edge	10	18900	1880	50	Mid	0.13	0.602	21.16	22.20	1.271	0.765	/
	State8		Bottom Edge	10	19100	1900	100	Low	-0.05	0.644	21.12	22.20	1.282	0.826	/

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

11.7 LTE 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.
Head															
Ant.1	State7&9	QPSK	Left Cheek	0	20175	1732.5	1	Mid	-0.19	0.422	17.01	17.80	1.199	0.506	/
	State7&9		Left Tilt	0	20175	1732.5	1	Mid	0.07	0.483	17.01	17.80	1.199	0.579	/
	State7&9		Right Cheek	0	20175	1732.5	1	Mid	-0.17	0.685	17.01	17.80	1.199	0.821	/
	State7&9		Right Tilt	0	20175	1732.5	1	Mid	0.02	0.812	17.01	17.80	1.199	0.974	/
	State7&9		Left Cheek	0	20175	1732.5	50	Mid	0.07	0.312	16.98	17.80	1.208	0.377	/
	State7&9		Left Tilt	0	20175	1732.5	50	Mid	0.03	0.565	16.98	17.80	1.208	0.683	/
	State7&9		Right Cheek	0	20175	1732.5	50	Mid	-0.13	0.571	16.98	17.80	1.208	0.690	/
	State7&9		Right Tilt	0	20175	1732.5	50	Mid	0.02	0.846	16.98	17.80	1.208	1.022	/
	State7&9		Right Tilt	0	20050	1720	1	Mid	-0.02	0.885	17.00	17.80	1.202	1.064	/
	State7&9		Right Tilt	0	20300	1745	1	High	-0.08	0.955	16.91	17.80	1.227	**1.172**	25#
	State7&9		Right Tilt	0	20050	1720	50	Mid	-0.15	0.834	16.95	17.80	1.216	1.014	/
	State7&9		Right Tilt	0	20300	1745	50	High	-0.05	0.795	16.92	17.80	1.225	0.974	/
	State7&9		Right Tilt	0	20175	1732.5	100	Low	-0.05	0.745	16.95	17.80	1.216	0.906	/
	State7&9		Right Tilt	0	20050	1720	100	Low	0.04	0.732	16.92	17.80	1.225	0.897	/
	State7&9		Right Tilt	0	20300	1745	100	Low	-0.10	0.756	16.88	17.80	1.236	0.934	/
Body-worn															
Ant.1	State6	QPSK	Front Side	15	20175	1732.5	1	Mid	0.10	0.109	21.70	22.30	1.148	0.125	/
	State6		Back Side	15	20175	1732.5	1	Mid	-0.09	0.115	21.70	22.30	1.148	0.132	/
	State6		Front Side	15	20175	1732.5	50	Mid	0.01	0.105	21.75	22.30	1.135	0.119	/
	State6		Back Side	15	20175	1732.5	50	Mid	0.01	0.117	21.75	22.30	1.135	0.133	/
Ant.0	State6&8	QPSK	Front Side	15	20175	1732.5	1	Mid	-0.09	0.183	21.51	22.80	1.346	0.246	/
	State6&8		Back Side	15	20175	1732.5	1	Mid	0.17	0.313	21.51	22.80	1.346	0.421	/
	State6&8		Front Side	15	20175	1732.5	50	Low	0.07	0.193	21.48	22.80	1.355	0.262	/
	State6&8		Back Side	15	20175	1732.5	50	Low	0.09	0.327	21.48	22.80	1.355	**0.443**	26#
Hotspot															
Ant.1	State8	QPSK	Front Side	10	20175	1732.5	1	Mid	-0.13	0.199	21.15	21.80	1.161	0.231	/
	State8		Back Side	10	20175	1732.5	1	Mid	0.13	0.201	21.15	21.80	1.161	0.233	/
	State8		Left Edge	10	20175	1732.5	1	Mid	-0.01	0.046	21.15	21.80	1.161	0.053	/
	State8		Top Edge	10	20175	1732.5	1	Mid	-0.04	0.367	21.15	21.80	1.161	0.426	/
	State8		Front Side	10	20175	1732.5	50	Mid	0.15	0.211	21.15	21.80	1.161	0.245	/
	State8		Back Side	10	20175	1732.5	50	Mid	0.11	0.216	21.15	21.80	1.161	0.251	/
	State8		Left Edge	10	20175	1732.5	50	Mid	0.10	0.046	21.15	21.80	1.161	0.053	/
	State8		Top Edge	10	20175	1732.5	50	Mid	0.00	0.472	21.15	21.80	1.161	0.548	/
Ant.0	State8	QPSK	Front Side	10	20175	1732.5	1	Mid	-0.01	0.266	21.51	22.80	1.346	0.358	/
	State8		Back Side	10	20175	1732.5	1	Mid	0.12	0.511	21.51	22.80	1.346	0.688	/
	State8		Left Edge	10	20175	1732.5	1	Mid	0.06	0.093	21.51	22.80	1.346	0.125	/

	State8		Right Edge	10	20175	1732.5	1	Mid	-0.19	0.048	21.51	22.80	1.346	0.065	/
	State8		Bottom Edge	10	20175	1732.5	1	Mid	-0.14	0.779	21.51	22.80	1.346	1.049	/
	State8		Front Side	10	20175	1732.5	50	Low	0.00	0.271	21.48	22.80	1.355	0.367	/
	State8		Back Side	10	20175	1732.5	50	Low	-0.14	0.545	21.48	22.80	1.355	0.738	/
	State8		Left Edge	10	20175	1732.5	50	Low	0.03	0.112	21.48	22.80	1.355	0.152	/
	State8		Right Edge	10	20175	1732.5	50	Low	-0.06	0.056	21.48	22.80	1.355	0.076	/
	State8		Bottom Edge	10	20175	1732.5	50	Low	0.03	0.811	21.48	22.80	1.355	1.099	/
	State8		Bottom Edge	10	20050	1720	1	Mid	0.06	0.774	21.49	22.80	1.352	1.046	/
	State8		Bottom Edge	10	20300	1745	1	Mid	-0.13	0.793	21.46	22.80	1.361	1.079	/
	State8		Bottom Edge	10	20050	1720	50	Low	0.08	0.765	21.50	22.80	1.349	1.032	/
	State8		Bottom Edge	10	20300	1745	50	Mid	-0.04	0.806	21.47	22.80	1.358	1.095	/
	State8		Bottom Edge	10	20175	1732.5	100	Low	-0.14	0.818	21.45	22.80	1.365	1.117	/
	State8		Bottom Edge	10	20050	1720	100	Low	-0.17	0.823	21.44	22.80	1.368	1.126	/
	State8		Bottom Edge	10	20300	1745	100	Low	-0.16	0.846	21.43	22.80	1.371	**1.160**	27#
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.
Specific															
	State8		Bottom Edge	0	20175	1732.5	1	Mid	0.05	1.730	21.51	22.80	1.346	2.329	/
	State8		Bottom Edge	0	20175	1732.5	50	Mid	-0.11	1.710	21.48	22.80	1.355	2.317	/
	State8		Bottom Edge	0	20050	1720	1	Mid	-0.07	1.620	21.49	22.80	1.352	2.190	/
	State8		Bottom Edge	0	20300	1745	1	Mid	-0.03	1.590	21.46	22.80	1.361	2.164	/
Ant.0	State8	QPSK	Bottom Edge	0	20050	1720	50	Low	-0.15	1.660	21.50	22.80	1.349	2.239	/
	State8		Bottom Edge	0	20300	1745	50	Mid	-0.14	1.610	21.47	22.80	1.358	2.186	/
	State8		Bottom Edge	0	20175	1732.5	100	Low	-0.09	1.650	21.45	22.80	1.365	2.252	/
	State8		Bottom Edge	0	20050	1720	100	Low	-0.02	1.680	21.44	22.80	1.368	2.298	/
	State8		Bottom Edge	0	20300	1745	100	Low	-0.16	1.760	21.43	22.80	1.371	**2.413**	28#
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.8 LTE 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.
Head															
Ant.1	State7	QPSK	Left Cheek	0	20525	836.5	1	Mid	0.11	0.431	21.61	22.60	1.256	0.541	/
	State7		Left Tilt	0	20525	836.5	1	Mid	-0.07	0.388	21.61	22.60	1.256	0.487	/
	State7		Right Cheek	0	20525	836.5	1	Mid	0.07	0.648	21.61	22.60	1.256	**0.814**	29#
	State7		Right Tilt	0	20525	836.5	1	Mid	0.08	0.523	21.61	22.60	1.256	0.657	/
	State7		Left Cheek	0	20525	836.5	25	Mid	-0.04	0.464	21.63	22.60	1.250	0.580	/
	State7		Left Tilt	0	20525	836.5	25	Mid	0.09	0.412	21.63	22.60	1.250	0.515	/
	State7		Right Cheek	0	20525	836.5	25	Mid	-0.11	0.603	21.63	22.60	1.250	0.754	/
	State7		Right Tilt	0	20525	836.5	25	Mid	-0.17	0.521	21.63	22.60	1.250	0.651	/
	State7		Right Cheek	0	20450	829	1	Mid	-0.14	0.621	21.58	22.60	1.265	0.786	/
	State7		Right Cheek	0	20600	844	1	Mid	0.12	0.606	21.59	22.60	1.262	0.765	/
	State7		Right Cheek	0	20450	829	50	High	0.02	0.588	21.62	22.60	1.253	0.737	/
	State7		Right Cheek	0	20600	844	50	Mid	0.19	0.595	21.62	22.60	1.253	0.746	/
	State7		Right Cheek	0	20525	836.5	100	Low	0.12	0.574	21.66	22.60	1.242	0.713	/
Ant.1	State9	QPSK	Left Cheek	0	20525	836.5	1	Mid	0.04	0.416	21.12	22.10	1.253	0.521	/
	State9		Left Tilt	0	20525	836.5	1	Mid	0.00	0.376	21.12	22.10	1.253	0.471	/
	State9		Right Cheek	0	20525	836.5	1	Mid	0.10	0.585	21.12	22.10	1.253	0.733	/
	State9		Right Tilt	0	20525	836.5	1	Mid	-0.05	0.497	21.12	22.10	1.253	0.623	/
	State9		Left Cheek	0	20525	836.5	25	Mid	-0.09	0.431	21.14	22.10	1.247	0.537	/
	State9		Left Tilt	0	20525	836.5	25	Mid	-0.02	0.381	21.14	22.10	1.247	0.475	/
	State9		Right Cheek	0	20525	836.5	25	Mid	-0.01	0.599	21.14	22.10	1.247	0.747	/
	State9		Right Tilt	0	20525	836.5	25	Mid	-0.15	0.504	21.14	22.10	1.247	0.628	/
Body-worn															
Ant.0	State6&8	QPSK	Back Side	15	20525	836.5	1	Mid	-0.13	0.172	23.91	24.80	1.227	**0.211**	30#
Hotspot															
Ant.0	State8	QPSK	Back Side	10	20525	836.5	1	Mid	-0.14	0.271	23.91	24.80	1.227	**0.333**	31#
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.9 LTE 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.
Head															
Ant.1	State7	QPSK	Right Tilt	0	21100	2535	50	Low	0.00	0.697	15.82	16.30	1.117	**0.779**	32#
Ant.1	State9	QPSK	Left Cheek	0	21100	2535	1	Mid	0.06	0.190	14.89	15.80	1.233	0.234	/
	State9		Left Tilt	0	21100	2535	1	Mid	0.00	0.259	14.89	15.80	1.233	0.319	/
	State9		Right Cheek	0	21100	2535	1	Mid	0.07	0.495	14.89	15.80	1.233	0.610	/
	State9		Right Tilt	0	21100	2535	1	Mid	-0.19	0.603	14.89	15.80	1.233	0.743	/
	State9		Left Cheek	0	21100	2535	50	Mid	-0.04	0.192	14.88	15.80	1.236	0.237	/
	State9		Left Tilt	0	21100	2535	50	Mid	-0.10	0.263	14.88	15.80	1.236	0.325	/
	State9		Right Cheek	0	21100	2535	50	Mid	-0.16	0.511	14.88	15.80	1.236	0.632	/
	State9		Right Tilt	0	21100	2535	50	Mid	0.02	0.611	14.88	15.80	1.236	0.755	/
Body-worn															
Ant.1	State6	QPSK	Front Side	15	21100	2535	1	Mid	0.18	0.144	20.73	21.30	1.140	0.164	/
	State6		Back Side	15	21100	2535	1	Mid	-0.14	0.206	20.73	21.30	1.140	0.235	/
	State6		Front Side	15	21100	2535	50	Low	0.12	0.131	20.67	21.30	1.156	0.151	/
	State6		Back Side	15	21100	2535	50	Low	0.06	0.230	20.67	21.30	1.156	**0.266**	33#
Ant.1	State8	QPSK	Front Side	15	21100	2535	1	Mid	0.15	0.116	20.25	20.80	1.135	0.132	/
	State8		Back Side	15	21100	2535	1	Mid	0.00	0.172	20.25	20.80	1.135	0.195	/
	State8		Front Side	15	21100	2535	50	Mid	-0.12	0.106	20.24	20.80	1.138	0.121	/
	State8		Back Side	15	21100	2535	50	Mid	-0.15	0.211	20.24	20.80	1.138	0.240	/
Ant.4	State6	QPSK	Front Side	15	21100	2535	1	Mid	-0.10	0.049	21.69	22.80	1.291	0.063	/
	State6		Back Side	15	21100	2535	1	Mid	-0.12	0.188	21.69	22.80	1.291	0.243	/
	State6		Front Side	15	21100	2535	50	Mid	-0.11	0.048	21.14	22.80	1.466	0.070	/
	State6		Back Side	15	21100	2535	50	Mid	0.02	0.165	21.14	22.80	1.466	0.242	/
Ant.0	State6	QPSK	Back Side	15	21100	2535	1	Mid	0.10	0.220	23.32	23.80	1.117	**0.246**	34#
Hotspot															
Ant.1	State8	QPSK	Front Side	10	21100	2535	1	Mid	0.04	0.241	20.25	20.80	1.135	0.274	/
	State8		Back Side	10	21100	2535	1	Mid	-0.15	0.323	20.25	20.80	1.135	0.367	/
	State8		Right Edge	10	21100	2535	1	Mid	0.12	0.174	20.25	20.80	1.135	0.197	/
	State8		Top Edge	10	21100	2535	1	Mid	0.09	0.816	20.25	20.80	1.135	0.926	/
	State8		Front Side	10	21100	2535	50	Mid	0.00	0.233	20.24	20.80	1.138	0.265	/
	State8		Back Side	10	21100	2535	50	Mid	-0.07	0.412	20.24	20.80	1.138	0.469	/
	State8		Right Edge	10	21100	2535	50	Mid	0.09	0.223	20.24	20.80	1.138	0.254	/
	State8		Top Edge	10	21100	2535	50	Mid	0.15	0.815	20.24	20.80	1.138	**0.927**	35#
	State8		Top Edge	10	20850	2510	1	Mid	0.01	0.743	20.20	20.80	1.148	0.853	/
	State8		Top Edge	10	21350	2560	1	Mid	0.00	0.732	20.16	20.80	1.159	0.848	/
	State8		Top Edge	10	20850	2510	50	Mid	-0.02	0.765	20.20	20.80	1.148	0.878	/
	State8		Top Edge	10	21350	2560	50	Mid	0.12	0.732	20.23	20.80	1.140	0.834	/

	State8		Top Edge	10	21100	2535	100	Low	0.01	0.792	20.20	20.80	1.148	0.909	/
	State8		Top Edge	10	20850	2510	100	Low	0.00	0.774	20.12	20.80	1.169	0.905	/
	State8		Top Edge	10	21350	2560	100	Low	0.06	0.752	20.11	20.80	1.172	0.881	/
Ant.4	State8	QPSK	Front Side	10	21100	2535	1	Mid	-0.04	0.088	21.69	22.80	1.291	0.114	/
	State8		Back Side	10	21100	2535	1	Mid	0.11	0.258	21.69	22.80	1.291	0.333	/
	State8		Right Edge	10	21100	2535	1	Mid	0.15	0.236	21.69	22.80	1.291	0.305	/
	State8		Top Edge	10	21100	2535	1	Mid	-0.07	0.010	21.69	22.80	1.291	0.013	/
	State8		Front Side	10	21100	2535	50	Mid	0.17	0.077	21.14	22.80	1.466	0.113	/
	State8		Back Side	10	21100	2535	50	Mid	-0.09	0.288	21.14	22.80	1.466	0.422	/
	State8		Right Edge	10	21100	2535	50	Mid	0.16	0.309	21.14	22.80	1.466	0.453	/
	State8		Top Edge	10	21100	2535	50	Mid	0.16	0.011	21.14	22.80	1.466	0.016	/
Ant.0	State8	QPSK	Back Side	10	21100	2535	50	Low	0.17	0.442	22.80	23.30	1.122	**0.496**	36#

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.
Specific															
Ant.1	State8	QPSK	Top Edge	0	21100	2535	1	Mid	0.03	1.910	19.85	20.80	1.245	2.378	/
	State8		Top Edge	0	21100	2535	50	Mid	0.10	2.000	19.84	20.80	1.247	**2.494**	37#
	State8		Top Edge	0	20850	2510	1	Mid	-0.15	1.810	20.20	20.80	1.148	2.078	/
	State8		Top Edge	0	21350	2560	1	Mid	0.17	1.780	20.16	20.80	1.159	2.063	/
	State8		Top Edge	0	20850	2510	50	Mid	-0.16	1.850	20.20	20.80	1.148	2.124	/
	State8		Top Edge	0	21350	2560	50	Mid	-0.19	1.830	20.23	20.80	1.140	2.086	/
	State8		Top Edge	0	21100	2535	100	Low	0.00	1.710	20.20	20.80	1.148	1.963	/

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

11.10 LTE Band 12 (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.
Head															
Ant.1	State7	QPSK	Left Cheek	0	23095	707.5	1	High	-0.14	0.370	22.98	23.90	1.236	0.457	/
	State7		Left Tilt	0	23095	707.5	1	High	-0.01	0.345	22.98	23.90	1.236	0.426	/
	State7		Right Cheek	0	23095	707.5	1	High	0.11	0.601	22.98	23.90	1.236	0.743	/
	State7		Right Tilt	0	23095	707.5	1	High	0.13	0.507	22.98	23.90	1.236	0.627	/
	State7		Left Cheek	0	23095	707.5	25	High	0.05	0.397	22.47	23.40	1.239	0.492	/
	State7		Left Tilt	0	23095	707.5	25	High	0.13	0.372	22.47	23.40	1.239	0.461	/
	State7		Right Cheek	0	23095	707.5	25	High	-0.09	0.659	22.47	23.40	1.239	**0.817**	38#
	State7		Right Tilt	0	23095	707.5	25	High	-0.11	0.540	22.47	23.40	1.239	0.669	/
	State7		Right Cheek	0	23060	704	1	Mid	0.19	0.588	22.97	23.90	1.239	0.729	/
	State7		Right Cheek	0	23130	711	1	High	0.03	0.594	22.91	23.90	1.256	0.746	/
	State7		Right Cheek	0	23060	704	25	Mid	-0.13	0.611	22.43	23.40	1.250	0.764	/
	State7		Right Cheek	0	23130	711	25	Mid	-0.15	0.623	22.46	23.40	1.242	0.774	/
	State7		Right Cheek	0	23095	707.5	50	Low	-0.08	0.574	22.48	23.40	1.236	0.709	/
Ant.1	State9	QPSK	Left Cheek	0	23095	707.5	1	High	0.19	0.421	22.36	23.40	1.271	0.535	/
	State9		Left Tilt	0	23095	707.5	1	High	0.07	0.393	22.36	23.40	1.271	0.500	/
	State9		Right Cheek	0	23095	707.5	1	High	0.18	0.523	22.36	23.40	1.271	0.665	/
	State9		Right Tilt	0	23095	707.5	1	High	-0.17	0.587	22.36	23.40	1.271	0.746	/
	State9		Left Cheek	0	23095	707.5	25	High	0.09	0.404	22.49	23.40	1.233	0.498	/
	State9		Left Tilt	0	23095	707.5	25	High	-0.04	0.373	22.49	23.40	1.233	0.460	/
	State9		Right Cheek	0	23095	707.5	25	High	0.18	0.555	22.49	23.40	1.233	0.684	/
	State9		Right Tilt	0	23095	707.5	25	High	-0.16	0.584	22.49	23.40	1.233	0.720	/
Body-worn															
Ant.1	State6	QPSK	Back Side	15	23095	707.5	1	Mid	-0.14	0.152	23.82	24.60	1.197	**0.182**	39#
Ant.0	State8	QPSK	Front Side	15	23095	707.5	1	Mid	0.14	0.101	23.82	24.60	1.197	0.121	/
	State8		Back Side	15	23095	707.5	1	Mid	0.05	0.141	23.82	24.60	1.197	0.169	/
	State8		Front Side	15	23095	707.5	25	High	-0.18	0.095	22.56	23.60	1.271	0.121	/
	State8		Back Side	15	23095	707.5	25	High	0.07	0.132	22.56	23.60	1.271	0.168	/
Hotspot															
Ant.1	State8	QPSK	Right Edge	10	23095	707.5	1	Mid	-0.16	0.227	23.59	24.40	1.205	**0.274**	40#
Ant.0	State8	QPSK	Front Side	10	23095	707.5	1	High	-0.02	0.085	23.82	24.60	1.197	0.102	/
	State8		Back Side	10	23095	707.5	1	High	0.12	0.124	23.82	24.60	1.197	0.148	/
	State8		Left Edge	10	23095	707.5	1	High	0.03	0.097	23.82	24.60	1.197	0.116	/
	State8		Right Edge	10	23095	707.5	1	High	-0.03	0.157	23.82	24.60	1.197	**0.188**	41#
	State8		Bottom Edge	10	23095	707.5	1	High	-0.01	0.065	23.82	24.60	1.197	0.078	/
	State8		Front Side	10	23095	707.5	25	High	0.17	0.077	22.56	23.60	1.271	0.098	/
	State8		Back Side	10	23095	707.5	25	High	0.18	0.132	22.56	23.60	1.271	0.168	/

	State8		Left Edge	10	23095	707.5	25	High	-0.06	0.081	22.56	23.60	1.271	0.103	/
	State8		Right Edge	10	23095	707.5	25	High	-0.14	0.141	22.56	23.60	1.271	0.179	/
	State8		Bottom Edge	10	23095	707.5	25	High	-0.02	0.063	22.56	23.60	1.271	0.080	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.11 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.
Head															
Ant.1	State7	QPSK	Left Cheek	0	23230	782	1	High	-0.05	0.174	22.20	23.10	1.230	0.214	/
	State7		Left Tilt	0	23230	782	1	High	0.17	0.163	22.20	23.10	1.230	0.200	/
	State7		Right Cheek	0	23230	782	1	High	-0.16	0.269	22.20	23.10	1.230	**0.331**	42#
	State7		Right Tilt	0	23230	782	1	High	-0.16	0.234	22.20	23.10	1.230	0.288	/
	State7		Left Cheek	0	23230	782	25	Mid	-0.04	0.163	22.14	23.10	1.247	0.203	/
	State7		Left Tilt	0	23230	782	25	Mid	-0.08	0.147	22.14	23.10	1.247	0.183	/
	State7		Right Cheek	0	23230	782	25	Mid	-0.17	0.255	22.14	23.10	1.247	0.318	/
	State7		Right Tilt	0	23230	782	25	Mid	0.02	0.211	22.14	23.10	1.247	0.263	/
Ant.1	State9	QPSK	Left Cheek	0	23230	782	1	Low	0.09	0.132	21.66	22.60	1.242	0.164	/
	State9		Left Tilt	0	23230	782	1	Low	0.16	0.141	21.66	22.60	1.242	0.175	/
	State9		Right Cheek	0	23230	782	1	Low	-0.11	0.226	21.66	22.60	1.242	0.281	/
	State9		Right Tilt	0	23230	782	1	Low	-0.12	0.185	21.66	22.60	1.242	0.230	/
	State9		Left Cheek	0	23230	782	25	High	0.04	0.134	21.90	22.60	1.175	0.157	/
	State9		Left Tilt	0	23230	782	25	High	-0.11	0.122	21.90	22.60	1.175	0.143	/
	State9		Right Cheek	0	23230	782	25	High	0.01	0.202	21.90	22.60	1.175	0.237	/
	State9		Right Tilt	0	23230	782	25	High	-0.03	0.173	21.90	22.60	1.175	0.203	/
Body-worn															
Ant.0	State6&8	QPSK	Back Side	15	23230	782	1	Mid	-0.15	0.137	23.52	24.40	1.225	**0.168**	43#
Hotspot															
Ant.0	State8	QPSK	Back Side	10	23230	782	1	Mid	0.03	0.196	23.52	24.40	1.225	**0.240**	44#
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.12 LTE Band 17 (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.
Head															
Ant.1	State7&9	QPSK	Left Cheek	0	23780	709	1	High	-0.03	0.474	23.56	24.40	1.213	0.575	/
	State7&9		Left Tilt	0	23780	709	1	High	0.07	0.432	23.56	24.40	1.213	0.524	/
	State7&9		Right Cheek	0	23780	709	1	High	-0.19	0.812	23.56	24.40	1.213	**0.985**	45#
	State7&9		Right Tilt	0	23780	709	1	High	-0.10	0.643	23.56	24.40	1.213	0.780	/
	State7&9		Left Cheek	0	23780	709	25	High	-0.02	0.388	22.45	23.40	1.245	0.483	/
	State7&9		Left Tilt	0	23780	709	25	High	-0.10	0.365	22.45	23.40	1.245	0.454	/
	State7&9		Right Cheek	0	23780	709	25	High	0.09	0.674	22.45	23.40	1.245	0.839	/
	State7&9		Right Tilt	0	23780	709	25	High	-0.12	0.535	22.45	23.40	1.245	0.666	/
	State7&9		Right Cheek	0	23790	710	1	Mid	-0.11	0.772	23.43	24.40	1.250	0.965	/
	State7&9		Right Cheek	0	23800	711	1	Mid	-0.07	0.788	23.46	24.40	1.242	0.979	/
	State7&9		Right Cheek	0	23790	710	25	Mid	-0.18	0.745	22.40	23.40	1.259	0.938	/
	State7&9		Right Cheek	0	23800	711	25	Mid	-0.14	0.784	22.45	23.40	1.245	0.976	/
	State7&9		Right Cheek	0	23780	709	50	Low	0.02	0.695	22.40	23.40	1.259	0.875	/
	State7&9		Right Cheek	0	23790	710	50	Low	0.02	0.688	22.40	23.40	1.259	0.866	/
	State7&9		Right Cheek	0	23800	711	50	Low	0.02	0.702	22.40	23.40	1.259	0.884	/
Body-worn															
Ant.0	State6&8	QPSK	Back Side	15	23780	709	1	Mid	-0.17	0.196	23.85	24.60	1.189	**0.233**	46#
Hotspot															
Ant.0	State8	QPSK	Back Side	10	23780	709	1	Mid	-0.16	0.201	23.85	24.60	1.189	**0.239**	47#

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

11.13 LTE Band 26 (15MHz 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.
Head															
Ant.1	State7	QPSK	Left Cheek	0	26965	841.5	1	Mid	0.14	0.422	21.58	22.60	1.265	0.534	/
	State7		Left Tilt	0	26965	841.5	1	Mid	0.11	0.384	21.58	22.60	1.265	0.486	/
	State7		Right Cheek	0	26965	841.5	1	Mid	-0.01	0.637	21.58	22.60	1.265	**0.806**	48#
	State7		Right Tilt	0	26965	841.5	1	Mid	-0.04	0.532	21.58	22.60	1.265	0.673	/
	State7		Left Cheek	0	26965	841.5	36	High	0.05	0.465	21.61	22.60	1.256	0.584	/
	State7		Left Tilt	0	26965	841.5	36	High	0.10	0.412	21.61	22.60	1.256	0.517	/
	State7		Right Cheek	0	26965	841.5	36	High	0.17	0.634	21.61	22.60	1.256	0.796	/
	State7		Right Tilt	0	26965	841.5	36	High	-0.08	0.545	21.61	22.60	1.256	0.685	/
Ant.1	State9	QPSK	Left Cheek	0	26965	841.5	1	Mid	-0.17	0.422	21.08	22.10	1.265	0.534	/
	State9		Left Tilt	0	26965	841.5	1	Mid	-0.01	0.382	21.08	22.10	1.265	0.483	/
	State9		Right Cheek	0	26965	841.5	1	Mid	-0.08	0.594	21.08	22.10	1.265	0.751	/
	State9		Right Tilt	0	26965	841.5	1	Mid	0.19	0.501	21.08	22.10	1.265	0.634	/
	State9		Left Cheek	0	26965	841.5	36	Low	0.19	0.430	21.09	22.10	1.262	0.543	/
	State9		Left Tilt	0	26965	841.5	36	Low	0.02	0.387	21.09	22.10	1.262	0.488	/
	State9		Right Cheek	0	26965	841.5	36	Low	-0.02	0.595	21.09	22.10	1.262	0.751	/
	State9		Right Tilt	0	26965	841.5	36	Low	0.05	0.508	21.09	22.10	1.262	0.641	/
Body-worn															
Ant.0	State6&8	QPSK	Back Side	15	26965	841.5	1	Mid	-0.03	0.150	23.86	24.80	1.242	**0.186**	49#
Hotspot															
Ant.0	State8	QPSK	Back Side	10	26965	841.5	1	Mid	-0.01	0.261	23.86	24.80	1.242	**0.324**	50#
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.14 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.
Head															
Ant.1	State7	QPSK	Right Tilt	0	38000	2595	1	Mid	0.06	0.744	19.34	19.80	1.112	**0.827**	51#
Body-worn															
Ant.1	State6	QPSK	Front Side	15	38000	2595	1	Mid	-0.18	0.193	22.93	23.80	1.222	0.236	/
	State6		Back Side	15	38000	2595	1	Mid	0.09	0.322	22.93	23.80	1.222	**0.393**	52#
	State6		Front Side	15	38000	2595	50	Mid	0.10	0.162	21.83	22.80	1.250	0.203	/
	State6		Back Side	15	38000	2595	50	Mid	-0.10	0.311	21.83	22.80	1.250	0.389	/
Ant.1	State8	QPSK	Front Side	15	38000	2595	1	Mid	0.11	0.144	22.09	22.80	1.178	0.170	/
	State8		Back Side	15	38000	2595	1	Mid	0.14	0.236	22.09	22.80	1.178	0.278	/
	State8		Front Side	15	38000	2595	50	Mid	0.06	0.135	22.07	22.80	1.183	0.160	/
	State8		Back Side	15	38000	2595	50	Mid	0.09	0.223	22.07	22.80	1.183	0.264	/
Ant.4	State6&8	QPSK	Back Side	15	38000	2595	1	Mid	-0.16	0.184	22.04	23.30	1.337	**0.246**	53#
Hotspot															
Ant.1	State8	QPSK	Front Side	10	38000	2595	1	Mid	-0.18	0.234	22.09	22.80	1.178	0.276	/
	State8		Back Side	10	38000	2595	1	Mid	0.09	0.621	22.09	22.80	1.178	0.732	/
	State8		Right Edge	10	38000	2595	1	Mid	0.00	0.244	22.09	22.80	1.178	0.287	/
	State8		Top Edge	10	38000	2595	1	Mid	-0.07	0.712	22.09	22.80	1.178	0.839	/
	State8		Front Side	10	38000	2595	50	Mid	-0.16	0.211	22.07	22.80	1.183	0.250	/
	State8		Back Side	10	38000	2595	50	Mid	0.02	0.512	22.07	22.80	1.183	0.606	/
	State8		Right Edge	10	38000	2595	50	Mid	-0.06	0.187	22.07	22.80	1.183	0.221	/
	State8		Top Edge	10	38000	2595	50	Mid	0.15	0.853	22.07	22.80	1.183	1.009	/
	State8		Top Edge	10	37850	2580	1	Mid	0.02	0.960	22.07	22.80	1.183	**1.136**	54#
	State8		Top Edge	10	38150	2610	1	Mid	-0.04	0.886	22.06	22.80	1.186	1.051	/
	State8		Top Edge	10	37850	2580	50	High	0.05	0.834	22.04	22.80	1.191	0.993	/
	State8		Top Edge	10	38150	2610	50	Mid	-0.02	0.865	22.00	22.80	1.202	1.040	/
	State8		Top Edge	10	38000	2595	100	Low	0.11	0.825	22.04	22.80	1.191	0.983	/
	State8		Top Edge	10	37850	2580	100	Low	-0.16	0.806	21.97	22.80	1.211	0.976	/
	State8		Top Edge	10	38150	2610	100	Low	-0.12	0.833	21.98	22.80	1.208	1.006	/
Ant.4	State8	QPSK	Back Side	10	38000	2595	1	Mid	-0.02	0.432	22.04	23.30	1.337	**0.578**	55#

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.
Specific															
Ant.1	State8	QPSK	Top Edge	0	38000	2595	50	Mid	0.15	1.210	22.07	22.80	1.183	1.431	/
	State8		Top Edge	0	37850	2580	1	Mid	0.02	1.400	22.07	22.80	1.183	**1.656**	56#
	State8		Top Edge	0	38150	2610	1	Mid	-0.04	1.260	22.06	22.80	1.186	1.494	/
	State8		Top Edge	0	37850	2580	50	High	0.05	1.310	22.04	22.80	1.191	1.560	/
	State8		Top Edge	0	38150	2610	50	Mid	-0.02	1.280	22.00	22.80	1.202	1.539	/
	State8		Top Edge	0	38000	2595	100	Low	0.11	1.330	22.04	22.80	1.191	1.584	/
	State8		Top Edge	0	37850	2580	100	Low	-0.16	1.360	21.97	22.80	1.211	1.647	/
	State8		Top Edge	0	38150	2610	100	Low	-0.12	1.290	21.98	22.80	1.208	1.558	/

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

11.15 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.
Head															
Ant.1	State7	QPSK	Left Cheek	0	39750	2506	1	Mid	-0.16	0.173	19.43	20.30	1.222	0.211	/
	State7		Left Tilt	0	39750	2506	1	Mid	-0.10	0.225	19.43	20.30	1.222	0.275	/
	State7		Right Cheek	0	39750	2506	1	Mid	0.13	0.449	19.43	20.30	1.222	0.549	/
	State7		Right Tilt	0	39750	2506	1	Mid	-0.04	0.703	19.43	20.30	1.222	0.859	/
	State7		Left Cheek	0	39750	2506	50	High	-0.17	0.173	19.46	20.30	1.213	0.210	/
	State7		Left Tilt	0	39750	2506	50	High	0.04	0.220	19.46	20.30	1.213	0.267	/
	State7		Right Cheek	0	39750	2506	50	High	0.19	0.455	19.46	20.30	1.213	0.552	/
	State7		Right Tilt	0	39750	2506	50	High	0.07	0.726	19.46	20.30	1.213	**0.881**	57#
	State7		Right Tilt	0	40185	2549.5	1	Low	-0.12	0.707	19.36	20.30	1.242	0.878	/
	State7		Right Tilt	0	40620	2593	1	Low	0.16	0.629	19.35	20.30	1.245	0.783	/
	State7		Right Tilt	0	41055	2636.5	1	Low	0.12	0.427	19.40	20.30	1.230	0.525	/
	State7		Right Tilt	0	41490	2680	1	High	-0.06	0.400	19.46	20.30	1.213	0.485	/
	State7		Right Tilt	0	40185	2549.5	50	Low	0.13	0.695	19.31	20.30	1.256	0.873	/
	State7		Right Tilt	0	40620	2593	50	Mid	-0.03	0.649	19.33	20.30	1.250	0.811	/
	State7		Right Tilt	0	41055	2636.5	50	Low	-0.01	0.431	19.34	20.30	1.247	0.537	/
	State7		Right Tilt	0	41490	2680	50	Low	0.05	0.416	19.45	20.30	1.216	0.506	/
	State7		Right Tilt	0	39750	2506	100	Low	0.08	0.523	19.39	20.30	1.233	0.645	/
	State9	QPSK	Left Cheek	0	39750	2506	1	High	0.00	0.160	19.02	19.80	1.197	0.192	/
	State9		Left Tilt	0	39750	2506	1	High	-0.01	0.203	19.02	19.80	1.197	0.243	/
	State9		Right Cheek	0	39750	2506	1	High	0.00	0.423	19.02	19.80	1.197	0.506	/
	State9		Right Tilt	0	39750	2506	1	High	-0.05	0.500	19.02	19.80	1.197	0.599	/
	State9		Left Cheek	0	39750	2506	50	Mid	0.08	0.151	18.96	19.80	1.213	0.183	/
	State9		Left Tilt	0	39750	2506	50	Mid	-0.07	0.200	18.96	19.80	1.213	0.243	/
	State9		Right Cheek	0	39750	2506	50	Mid	-0.17	0.419	18.96	19.80	1.213	0.508	/
	State9		Right Tilt	0	39750	2506	50	Mid	-0.09	0.492	18.96	19.80	1.213	0.597	/
Ant.4	State7&9	QPSK	Right Cheek	0	40620	2593	1	Mid	0.01	0.247	21.65	22.80	1.303	**0.322**	58#
Body-worn															
Ant.1	State6&8	QPSK	Front Side	15	40620	2593	1	High	0.08	0.159	24.56	25.30	1.186	0.189	/
	State6&8		Back Side	15	40620	2593	1	High	0.04	0.298	24.56	25.30	1.186	**0.353**	59#
	State6&8		Front Side	15	40620	2593	50	Low	-0.04	0.148	23.55	24.30	1.189	0.176	/
	State6&8		Back Side	15	40620	2593	50	Low	-0.08	0.274	23.55	24.30	1.189	0.326	/
Ant.4	State6&8	QPSK	Back Side	15	40620	2593	1	Mid	0.01	0.159	21.65	22.80	1.303	**0.207**	60#
Hotspot															
Ant.1	State8	QPSK	Front Side	10	40620	2593	1	High	0.17	0.271	24.56	25.30	1.186	0.321	/
	State8		Back Side	10	40620	2593	1	High	-0.12	0.702	24.56	25.30	1.186	0.833	/
	State8		Right Edge	10	40620	2593	1	High	0.15	0.265	24.56	25.30	1.186	0.314	/

	State8		Top Edge	10	40620	2593	1	High	0.05	0.858	24.56	25.30	1.186	1.018	/
	State8		Front Side	10	40620	2593	50	Low	-0.07	0.212	23.55	24.30	1.189	0.252	/
	State8		Back Side	10	40620	2593	50	Low	0.09	0.611	23.55	24.30	1.189	0.726	/
	State8		Right Edge	10	40620	2593	50	Low	-0.13	0.223	23.55	24.30	1.189	0.265	/
	State8		Top Edge	10	40620	2593	50	Low	-0.10	0.734	23.55	24.30	1.189	0.873	/
	State8		Top Edge	10	39750	2506	1	Mid	-0.13	0.906	24.29	25.30	1.262	1.143	/
	State8		Top Edge	10	40185	2549.5	1	High	0.03	0.996	24.50	25.30	1.202	**1.197**	61#
	State8		Top Edge	10	41055	2636.5	1	High	-0.05	0.523	24.45	25.30	1.216	0.636	/
	State8		Top Edge	10	41490	2680	1	High	0.10	0.488	24.55	25.30	1.189	0.580	/
	State8		Top Edge	10	39750	2506	50	High	-0.04	0.345	23.29	24.30	1.262	0.435	/
	State8		Top Edge	10	40185	2549.5	50	High	0.06	0.821	23.41	24.30	1.227	1.007	/
	State8		Top Edge	10	41055	2636.5	50	Low	0.10	0.432	23.40	24.30	1.230	0.531	/
	State8		Top Edge	10	41490	2680	50	Low	0.02	0.374	23.52	24.30	1.197	0.448	/
	State8		Top Edge	10	40620	2593	100	Low	-0.07	0.656	23.47	24.30	1.211	0.794	/
Ant.4	State8	QPSK	Back Side	10	40620	2593	1	Mid	0.04	0.348	21.65	22.80	1.303	**0.453**	62#
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.16 WIFI 2.4GHz

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Setting	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.
Head																
Ant.7	Level1	802.11 b	Left Cheek	0	6	2437	13	-0.14	0.480	14.12	14.50	1.091	99.55	1.005	**0.526**	63#
Body-worn																
Ant.7	Level3	802.11 b	Back Side	15	6	2437	13	0.04	0.069	14.12	14.50	1.091	99.55	1.005	**0.076**	64#
Hotspot																
Ant.7	Level3	802.11 b	Back Side	10	6	2437	13	0.01	0.117	14.12	14.50	1.091	99.55	1.005	**0.128**	65#
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

11.17 WIFI 5GHz

Antenna	Band	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Setting	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.
Head																	
Ant.7	5.8G	Level1	802.11ac(VHT80)	Left Cheek	0	155	5775	14	0.02	0.708	15.21	15.50	1.069	90.22	1.108	**0.839**	66#
Body-worn																	
Ant.7	5.8G	Level3	802.11ac(VHT80)	Back Side	15	155	5775	16	0.07	0.420	16.30	17.50	1.318	90.22	1.108	**0.613**	67#
Hotspot																	
Ant.7	5.8G	Level3	802.11ac(VHT80)	Left Edge	10	155	5775	16	0.08	0.704	16.30	17.50	1.318	90.22	1.108	**1.028**	68#
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 Setting	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	Duty Cycle (%)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
Specify																	
Ant.7	5.3G	Level3	802.11n(HT40)	Left Edge	0	54	5270	16	-0.03	0.970	16.35	17.50	1.303	94.80	1.055	**1.333**	69#
Note: Refer to ANNEX C for the detailed test data for each test configuration.																	

11.18 Bluetooth

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Setting	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.
Head															
Ant.7	DH5	Left Cheek	0	56	2458	N/A	-0.16	0.257	12.24	14.00	1.500	76.61	1.305	**0.503**	70#
Body-worn															
Ant.7	DH5	Back Side	15	56	2458	N/A	0.08	0.052	12.24	14.00	1.500	76.61	1.305	**0.078**	71#
Hotspot															
Ant.7	DH5	Back Side	10	56	2458	N/A	0.03	0.084	12.24	14.00	1.500	76.61	1.305	**0.126**	72#
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

12 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 ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 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 >= 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 >= 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 >= 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^{1th} Measured SAR (W/kg)	Largest to Smallest SAR Radio
1909.8	GSM1900	Head	Right Tilt	0.994	Yes	0.921	1.08
1852.4	WCDMA Band2	Head	Right Tilt	0.919	Yes	0.856	1.07
1752.6	WCDMA Band4	Head	Right Tilt	0.872	Yes	0.833	1.05
1712.4	WCDMA Band4	Hotspot	Bottom Edge	0.919	Yes	0.902	1.02
1712.4	WCDMA Band4	Specific	Bottom Edge	2.170	Yes	2.11	1.03
1860	LTE Band2	Head	Right Tilt	0.932	Yes	0.911	1.02
1745	LTE Band4	Head	Right Tilt	0.955	Yes	0.921	1.04
1745	LTE Band4	Hotspot	Bottom Edge	0.846	Yes	0.795	1.06
2535	LTE Band7	Hotspot	Top Edge	0.815	Yes	0.793	1.03
2535	LTE Band7	Specific	Top Edge	2.000	Yes	1.95	1.03
709	LTE Band17	Head	Right Cheek	0.812	Yes	0.745	1.09
2580	LTE Band38	Hotspot	Top Edge	0.960	Yes	0.911	1.05
2549.5	LTE Band41	Hotspot	Top Edge	0.996	Yes	0.965	1.03
3590	LTE Band42	Hotspot	Back Side	0.845	Yes	0.823	1.03
Note: The ratio of largest to smallest SAR for the original and first repeated measurements is < 1.20, the second repeated measurement. is not required.							

Note: For product specific 10g SAR, the highest measured 10g SAR is 0.61 < 2.0 W/kg, repeated measurement is not required.

13 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).

13.1 Simultaneous Transmission Mode Consider

No.	Simultaneous Tx Combination	Head	Body-worn	Hotspot	Specific
1	WWAN+WLAN2.4G	Yes	Yes	Yes	Yes
2	WWAN+WLAN5G+BT	Yes	Yes	Yes	Yes
3	WLAN5G+BT	Yes	Yes	Yes	Yes

Note:

1. WiFi 2.4G and Bluetooth share the same antenna, and can't transmit simultaneously.
2. When stand-alone SAR is not required for a side of antenna, its SAR is considered zero in the SAR summing process to assess Multi-band transmission SAR compliance.
3. The maximum SAR summation is calculated based on the same configuration and test position.
4. The simultaneous transmission combinations of the more antennas contain combinations of less antennas, so only the worst simultaneous transmission combinations is shown in this report.

13.2 Sum SAR of Simultaneous Transmission

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

Band	Antenna	Position	Stand alone SAR							SUM SAR	
			1	2	3				4		
			WWAN	MAX. 2.4GWIFI	5.3GWIFI	5.6GWIFI	5.8GWIFI	Max. 5GWIFI	BT	WWAN+WIFI2.4G 1+2	WWAN+WIFI5G+BT 1+3+4
GSM850	Ant.0	Left Cheek	0.187	0.156	0.217	0.420	0.468	0.468	0.503	0.343	1.158
		Left Tilt	0.095	0.123	0.175	0.315	0.364	0.364	0.231	0.218	0.690
		Right Cheek	0.154	0.071	0.054	0.118	0.120	0.120	0.151	0.225	0.425
		Right Tilt	0.079	0.087	0.064	0.089	0.109	0.109	0.178	0.166	0.366
GSM850	Ant.1	Left Cheek	0.400	0.156	0.217	0.420	0.468	0.468	0.503	0.556	1.371
		Left Tilt	0.384	0.123	0.175	0.315	0.364	0.364	0.231	0.507	0.979
		Right Cheek	0.773	0.071	0.054	0.118	0.120	0.120	0.151	0.844	1.044
		Right Tilt	0.400	0.087	0.064	0.089	0.109	0.109	0.178	0.487	0.687
GSM1900	Ant.0	Left Cheek	0.101	0.156	0.217	0.420	0.468	0.468	0.503	0.257	1.072
		Left Tilt	0.047	0.123	0.175	0.315	0.364	0.364	0.231	0.170	0.642
		Right Cheek	0.078	0.071	0.054	0.118	0.120	0.120	0.151	0.149	0.349
		Right Tilt	0.064	0.087	0.064	0.089	0.109	0.109	0.178	0.151	0.351
GSM1900	Ant.1	Left Cheek	0.458	0.156	0.217	0.420	0.468	0.468	0.503	0.614	1.429
		Left Tilt	0.565	0.123	0.175	0.315	0.364	0.364	0.231	0.688	1.160
		Right Cheek	0.833	0.071	0.054	0.118	0.120	0.120	0.151	0.904	1.104
		Right Tilt	0.970	0.087	0.064	0.089	0.109	0.109	0.178	1.057	1.257
WCDMA B2	Ant.0	Left Cheek	0.154	0.156	0.217	0.420	0.468	0.468	0.503	0.310	1.125
		Left Tilt	0.092	0.123	0.175	0.315	0.364	0.364	0.231	0.215	0.687
		Right Cheek	0.127	0.071	0.054	0.118	0.120	0.120	0.151	0.198	0.398
		Right Tilt	0.107	0.087	0.064	0.089	0.109	0.109	0.178	0.194	0.394
WCDMA B2	Ant.1	Left Cheek	0.361	0.156	0.217	0.420	0.468	0.468	0.503	0.517	1.332
		Left Tilt	0.450	0.123	0.175	0.315	0.364	0.364	0.231	0.573	1.045
		Right Cheek	0.612	0.071	0.054	0.118	0.120	0.120	0.151	0.683	0.883
		Right Tilt	0.706	0.087	0.064	0.089	0.109	0.109	0.178	0.793	0.993
WCDMA B4	Ant.0	Left Cheek	0.171	0.156	0.217	0.420	0.468	0.468	0.503	0.327	1.142
		Left Tilt	0.102	0.123	0.175	0.315	0.364	0.364	0.231	0.225	0.697
		Right Cheek	0.119	0.071	0.054	0.118	0.120	0.120	0.151	0.190	0.390
		Right Tilt	0.095	0.087	0.064	0.089	0.109	0.109	0.178	0.182	0.382
WCDMA B4	Ant.1	Left Cheek	0.469	0.156	0.217	0.420	0.468	0.468	0.503	0.625	1.440
		Left Tilt	0.552	0.123	0.175	0.315	0.364	0.364	0.231	0.675	1.147
		Right Cheek	0.751	0.071	0.054	0.118	0.120	0.120	0.151	0.822	1.022
		Right Tilt	0.902	0.087	0.064	0.089	0.109	0.109	0.178	0.989	1.189
WCDMA B5	Ant.0	Left Cheek	0.278	0.156	0.217	0.420	0.468	0.468	0.503	0.434	1.249
		Left Tilt	0.155	0.123	0.175	0.315	0.364	0.364	0.231	0.278	0.750
		Right Cheek	0.217	0.071	0.054	0.118	0.120	0.120	0.151	0.288	0.488

		Right Tilt	0.121	0.087	0.064	0.089	0.109	0.109	0.178	0.208	0.408
WCDMA B5	Ant.1	Left Cheek	0.373	0.156	0.217	0.420	0.468	0.468	0.503	0.529	1.344
		Left Tilt	0.322	0.123	0.175	0.315	0.364	0.364	0.231	0.445	0.917
		Right Cheek	0.682	0.071	0.054	0.118	0.120	0.120	0.151	0.753	0.953
		Right Tilt	0.499	0.087	0.064	0.089	0.109	0.109	0.178	0.586	0.786
LTE B2	Ant.0	Left Cheek	0.100	0.156	0.217	0.420	0.468	0.468	0.503	0.256	1.071
		Left Tilt	0.060	0.123	0.175	0.315	0.364	0.364	0.231	0.183	0.655
		Right Cheek	0.101	0.071	0.054	0.118	0.120	0.120	0.151	0.172	0.372
		Right Tilt	0.085	0.087	0.064	0.089	0.109	0.109	0.178	0.172	0.372
LTE B2	Ant.1	Left Cheek	0.497	0.156	0.217	0.420	0.468	0.468	0.503	0.653	1.468
		Left Tilt	0.638	0.123	0.175	0.315	0.364	0.364	0.231	0.761	1.233
		Right Cheek	0.880	0.071	0.054	0.118	0.120	0.120	0.151	0.951	1.151
		Right Tilt	1.031	0.087	0.064	0.089	0.109	0.109	0.178	1.118	1.318
LTE B4	Ant.0	Left Cheek	0.161	0.156	0.217	0.420	0.468	0.468	0.503	0.317	1.132
		Left Tilt	0.097	0.123	0.175	0.315	0.364	0.364	0.231	0.220	0.692
		Right Cheek	0.116	0.071	0.054	0.118	0.120	0.120	0.151	0.187	0.387
		Right Tilt	0.101	0.087	0.064	0.089	0.109	0.109	0.178	0.188	0.388
LTE B4	Ant.1	Left Cheek	0.478	0.156	0.217	0.420	0.468	0.468	0.503	0.634	1.449
		Left Tilt	0.633	0.123	0.175	0.315	0.364	0.364	0.231	0.756	1.228
		Right Cheek	0.825	0.071	0.054	0.118	0.120	0.120	0.151	0.896	1.096
		Right Tilt	0.959	0.087	0.064	0.089	0.109	0.109	0.178	1.046	1.246
LTE B5	Ant.0	Left Cheek	0.299	0.156	0.217	0.420	0.468	0.468	0.503	0.455	1.270
		Left Tilt	0.169	0.123	0.175	0.315	0.364	0.364	0.231	0.292	0.764
		Right Cheek	0.237	0.071	0.054	0.118	0.120	0.120	0.151	0.308	0.508
		Right Tilt	0.131	0.087	0.064	0.089	0.109	0.109	0.178	0.218	0.418
LTE B5	Ant.1	Left Cheek	0.537	0.156	0.217	0.420	0.468	0.468	0.503	0.693	1.508
		Left Tilt	0.475	0.123	0.175	0.315	0.364	0.364	0.231	0.598	1.070
		Right Cheek	0.747	0.071	0.054	0.118	0.120	0.120	0.151	0.818	1.018
		Right Tilt	0.628	0.087	0.064	0.089	0.109	0.109	0.178	0.715	0.915
LTE B7	Ant.0	Left Cheek	0.235	0.156	0.217	0.420	0.468	0.468	0.503	0.391	1.206
		Left Tilt	0.148	0.123	0.175	0.315	0.364	0.364	0.231	0.271	0.743
		Right Cheek	0.407	0.071	0.054	0.118	0.120	0.120	0.151	0.478	0.678
		Right Tilt	0.202	0.087	0.064	0.089	0.109	0.109	0.178	0.289	0.489
LTE B7	Ant.1	Left Cheek	0.237	0.156	0.217	0.420	0.468	0.468	0.503	0.393	1.208
		Left Tilt	0.325	0.123	0.175	0.315	0.364	0.364	0.231	0.448	0.920
		Right Cheek	0.632	0.071	0.054	0.118	0.120	0.120	0.151	0.703	0.903
		Right Tilt	0.781	0.087	0.064	0.089	0.109	0.109	0.178	0.868	1.068
LTE B7	Ant.4	Left Cheek	0.248	0.156	0.217	0.420	0.468	0.468	0.503	0.404	1.219
		Left Tilt	0.101	0.123	0.175	0.315	0.364	0.364	0.231	0.224	0.696
		Right Cheek	0.393	0.071	0.054	0.118	0.120	0.120	0.151	0.464	0.664
		Right Tilt	0.232	0.087	0.064	0.089	0.109	0.109	0.178	0.319	0.519
LTE B12	Ant.0	Left Cheek	0.105	0.156	0.217	0.420	0.468	0.468	0.503	0.261	1.076
		Left Tilt	0.057	0.123	0.175	0.315	0.364	0.364	0.231	0.180	0.652

		Right Cheek	0.086	0.071	0.054	0.118	0.120	0.120	0.151	0.157	0.357
		Right Tilt	0.038	0.087	0.064	0.089	0.109	0.109	0.178	0.125	0.325
LTE B12	Ant.1	Left Cheek	0.535	0.156	0.217	0.420	0.468	0.468	0.503	0.691	1.506
		Left Tilt	0.500	0.123	0.175	0.315	0.364	0.364	0.231	0.623	1.095
		Right Cheek	0.684	0.071	0.054	0.118	0.120	0.120	0.151	0.755	0.955
		Right Tilt	0.746	0.087	0.064	0.089	0.109	0.109	0.178	0.833	1.033
LTE B13	Ant.0	Left Cheek	0.152	0.156	0.217	0.420	0.468	0.468	0.503	0.308	1.123
		Left Tilt	0.080	0.123	0.175	0.315	0.364	0.364	0.231	0.203	0.675
		Right Cheek	0.126	0.071	0.054	0.118	0.120	0.120	0.151	0.197	0.397
		Right Tilt	0.058	0.087	0.064	0.089	0.109	0.109	0.178	0.145	0.345
LTE B13	Ant.1	Left Cheek	0.164	0.156	0.217	0.420	0.468	0.468	0.503	0.320	1.135
		Left Tilt	0.175	0.123	0.175	0.315	0.364	0.364	0.231	0.298	0.770
		Right Cheek	0.281	0.071	0.054	0.118	0.120	0.120	0.151	0.352	0.552
		Right Tilt	0.230	0.087	0.064	0.089	0.109	0.109	0.178	0.317	0.517
LTE B17	Ant.0	Left Cheek	0.131	0.156	0.217	0.420	0.468	0.468	0.503	0.287	1.102
		Left Tilt	0.064	0.123	0.175	0.315	0.364	0.364	0.231	0.187	0.659
		Right Cheek	0.100	0.071	0.054	0.118	0.120	0.120	0.151	0.171	0.371
		Right Tilt	0.024	0.087	0.064	0.089	0.109	0.109	0.178	0.111	0.311
LTE B17	Ant.1	Left Cheek	0.575	0.156	0.217	0.420	0.468	0.468	0.503	0.731	**1.546**
		Left Tilt	0.524	0.123	0.175	0.315	0.364	0.364	0.231	0.647	1.119
		Right Cheek	0.985	0.071	0.054	0.118	0.120	0.120	0.151	1.056	1.256
		Right Tilt	0.780	0.087	0.064	0.089	0.109	0.109	0.178	0.867	1.067
LTE B26	Ant.0	Left Cheek	0.273	0.156	0.217	0.420	0.468	0.468	0.503	0.429	1.244
		Left Tilt	0.160	0.123	0.175	0.315	0.364	0.364	0.231	0.283	0.755
		Right Cheek	0.232	0.071	0.054	0.118	0.120	0.120	0.151	0.303	0.503
		Right Tilt	0.107	0.087	0.064	0.089	0.109	0.109	0.178	0.194	0.394
LTE B26	Ant.1	Left Cheek	0.543	0.156	0.217	0.420	0.468	0.468	0.503	0.699	1.514
		Left Tilt	0.488	0.123	0.175	0.315	0.364	0.364	0.231	0.611	1.083
		Right Cheek	0.751	0.071	0.054	0.118	0.120	0.120	0.151	0.822	1.022
		Right Tilt	0.641	0.087	0.064	0.089	0.109	0.109	0.178	0.728	0.928
LTE B38	Ant.0	Left Cheek	0.102	0.156	0.217	0.420	0.468	0.468	0.503	0.258	1.073
		Left Tilt	0.054	0.123	0.175	0.315	0.364	0.364	0.231	0.177	0.649
		Right Cheek	0.210	0.071	0.054	0.118	0.120	0.120	0.151	0.281	0.481
		Right Tilt	0.070	0.087	0.064	0.089	0.109	0.109	0.178	0.157	0.357
LTE B38	Ant.1	Left Cheek	0.188	0.156	0.217	0.420	0.468	0.468	0.503	0.344	1.159
		Left Tilt	0.241	0.123	0.175	0.315	0.364	0.364	0.231	0.364	0.836
		Right Cheek	0.552	0.071	0.054	0.118	0.120	0.120	0.151	0.623	0.823
		Right Tilt	0.697	0.087	0.064	0.089	0.109	0.109	0.178	0.784	0.984
LTE B38	Ant.4	Left Cheek	0.242	0.156	0.217	0.420	0.468	0.468	0.503	0.398	1.213
		Left Tilt	0.084	0.123	0.175	0.315	0.364	0.364	0.231	0.207	0.679
		Right Cheek	0.390	0.071	0.054	0.118	0.120	0.120	0.151	0.461	0.661
		Right Tilt	0.243	0.087	0.064	0.089	0.109	0.109	0.178	0.330	0.530
LTE B41	Ant.0	Left Cheek	0.091	0.156	0.217	0.420	0.468	0.468	0.503	0.247	1.062

		Left Tilt	0.049	0.123	0.175	0.315	0.364	0.364	0.231	0.172	0.644
		Right Cheek	0.182	0.071	0.054	0.118	0.120	0.120	0.151	0.253	0.453
		Right Tilt	0.059	0.087	0.064	0.089	0.109	0.109	0.178	0.146	0.346
LTE B41	Ant.1	Left Cheek	0.192	0.156	0.217	0.420	0.468	0.468	0.503	0.348	1.163
		Left Tilt	0.243	0.123	0.175	0.315	0.364	0.364	0.231	0.366	0.838
		Right Cheek	0.508	0.071	0.054	0.118	0.120	0.120	0.151	0.579	0.779
		Right Tilt	0.599	0.087	0.064	0.089	0.109	0.109	0.178	0.686	0.886
LTE B41	Ant.4	Left Cheek	0.210	0.156	0.217	0.420	0.468	0.468	0.503	0.366	1.181
		Left Tilt	0.074	0.123	0.175	0.315	0.364	0.364	0.231	0.197	0.669
		Right Cheek	0.339	0.071	0.054	0.118	0.120	0.120	0.151	0.410	0.610
		Right Tilt	0.215	0.087	0.064	0.089	0.109	0.109	0.178	0.302	0.502

Note:

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

2: The highest Summed 1g SAR is 1.546 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

13.2.2 Body Worm Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

Band	Antenna	Position	Stand alone SAR							SUM SAR	
			1	2	3				4		
			WWAN	MAX. 2.4GWIFI	5.3GWIFI	5.6GWIFI	5.8GWIFI	MAX. 5GWIFI	BT	WWAN+WIFI2.4G 1+2	WWAN+WIFI5G+BT 1+3+4
GSM850	Ant.0	Front Side 15mm	0.150	0.023	0.088	0.061	0.191	0.191	0.017	0.173	0.358
		Back Side 15mm	0.187	0.055	0.132	0.222	0.660	0.660	0.041	0.242	0.888
GSM850	Ant.1	Front Side 15mm	0.166	0.023	0.088	0.061	0.191	0.191	0.017	0.189	0.374
		Back Side 15mm	0.173	0.055	0.132	0.222	0.660	0.660	0.041	0.228	0.874
GSM1900	Ant.0	Front Side 15mm	0.150	0.023	0.088	0.061	0.191	0.191	0.017	0.173	0.358
		Back Side 15mm	0.258	0.055	0.132	0.222	0.660	0.660	0.041	0.313	0.959
GSM1900	Ant.1	Front Side 15mm	0.124	0.023	0.088	0.061	0.191	0.191	0.017	0.147	0.332
		Back Side 15mm	0.145	0.055	0.132	0.222	0.660	0.660	0.041	0.200	0.846
WCDMA B2	Ant.0	Front Side 15mm	0.188	0.023	0.088	0.061	0.191	0.191	0.017	0.211	0.396
		Back Side 15mm	0.331	0.055	0.132	0.222	0.660	0.660	0.041	0.386	1.032
WCDMA B2	Ant.1	Front Side 15mm	0.199	0.023	0.088	0.061	0.191	0.191	0.017	0.222	0.407
		Back Side 15mm	0.394	0.055	0.132	0.222	0.660	0.660	0.041	0.449	1.095
WCDMA B4	Ant.0	Front Side 15mm	0.253	0.023	0.088	0.061	0.191	0.191	0.017	0.276	0.461
		Back Side 15mm	0.450	0.055	0.132	0.222	0.660	0.660	0.041	0.505	**1.151**
WCDMA B4	Ant.1	Front Side 15mm	0.154	0.023	0.088	0.061	0.191	0.191	0.017	0.177	0.362
		Back Side 15mm	0.169	0.055	0.132	0.222	0.660	0.660	0.041	0.224	0.870
WCDMA B5	Ant.0	Front Side 15mm	0.183	0.023	0.088	0.061	0.191	0.191	0.017	0.206	0.391
		Back Side 15mm	0.209	0.055	0.132	0.222	0.660	0.660	0.041	0.264	0.910
WCDMA B5	Ant.1	Front Side 15mm	0.149	0.023	0.088	0.061	0.191	0.191	0.017	0.172	0.357
		Back Side 15mm	0.186	0.055	0.132	0.222	0.660	0.660	0.041	0.241	0.887
LTE B2	Ant.0	Front Side 15mm	0.162	0.023	0.088	0.061	0.191	0.191	0.017	0.185	0.370
		Back Side 15mm	0.287	0.055	0.132	0.222	0.660	0.660	0.041	0.342	0.988
LTE B2	Ant.1	Front Side 15mm	0.185	0.023	0.088	0.061	0.191	0.191	0.017	0.208	0.393
		Back Side 15mm	0.201	0.055	0.132	0.222	0.660	0.660	0.041	0.256	0.902
LTE B4	Ant.0	Front Side 15mm	0.262	0.023	0.088	0.061	0.191	0.191	0.017	0.285	0.470
		Back Side 15mm	0.443	0.055	0.132	0.222	0.660	0.660	0.041	0.498	1.144
LTE B4	Ant.1	Front Side 15mm	0.154	0.023	0.088	0.061	0.191	0.191	0.017	0.177	0.362
		Back Side 15mm	0.159	0.055	0.132	0.222	0.660	0.660	0.041	0.214	0.860
LTE B5	Ant.0	Front Side 15mm	0.164	0.023	0.088	0.061	0.191	0.191	0.017	0.187	0.372
		Back Side 15mm	0.225	0.055	0.132	0.222	0.660	0.660	0.041	0.280	0.926
LTE B5	Ant.1	Front Side 15mm	0.167	0.023	0.088	0.061	0.191	0.191	0.017	0.190	0.375
		Back Side 15mm	0.201	0.055	0.132	0.222	0.660	0.660	0.041	0.256	0.902
LTE B7	Ant.0	Front Side 15mm	0.165	0.023	0.088	0.061	0.191	0.191	0.017	0.188	0.373
		Back Side 15mm	0.244	0.055	0.132	0.222	0.660	0.660	0.041	0.299	0.945
LTE B7	Ant.1	Front Side 15mm	0.151	0.023	0.088	0.061	0.191	0.191	0.017	0.174	0.359
		Back Side 15mm	0.266	0.055	0.132	0.222	0.660	0.660	0.041	0.321	0.967

LTE B7	Ant.4	Front Side 15mm	0.063	0.023	0.088	0.061	0.191	0.191	0.017	0.086	0.271
		Back Side 15mm	0.243	0.055	0.132	0.222	0.660	0.660	0.041	0.298	0.944
LTE B12	Ant.0	Front Side 15mm	0.163	0.023	0.088	0.061	0.191	0.191	0.017	0.186	0.371
		Back Side 15mm	0.206	0.055	0.132	0.222	0.660	0.660	0.041	0.261	0.907
LTE B12	Ant.1	Front Side 15mm	0.157	0.023	0.088	0.061	0.191	0.191	0.017	0.180	0.365
		Back Side 15mm	0.182	0.055	0.132	0.222	0.660	0.660	0.041	0.237	0.883
LTE B13	Ant.0	Front Side 15mm	0.126	0.023	0.088	0.061	0.191	0.191	0.017	0.149	0.334
		Back Side 15mm	0.168	0.055	0.132	0.222	0.660	0.660	0.041	0.223	0.869
LTE B13	Ant.1	Front Side 15mm	0.145	0.023	0.088	0.061	0.191	0.191	0.017	0.168	0.353
		Back Side 15mm	0.146	0.055	0.132	0.222	0.660	0.660	0.041	0.201	0.847
LTE B17	Ant.0	Front Side 15mm	0.157	0.023	0.088	0.061	0.191	0.191	0.017	0.180	0.365
		Back Side 15mm	0.233	0.055	0.132	0.222	0.660	0.660	0.041	0.288	0.934
LTE B17	Ant.1	Front Side 15mm	0.159	0.023	0.088	0.061	0.191	0.191	0.017	0.182	0.367
		Back Side 15mm	0.173	0.055	0.132	0.222	0.660	0.660	0.041	0.228	0.874
LTE B26	Ant.0	Front Side 15mm	0.150	0.023	0.088	0.061	0.191	0.191	0.017	0.173	0.358
		Back Side 15mm	0.193	0.055	0.132	0.222	0.660	0.660	0.041	0.248	0.894
LTE B26	Ant.1	Front Side 15mm	0.140	0.023	0.088	0.061	0.191	0.191	0.017	0.163	0.348
		Back Side 15mm	0.165	0.055	0.132	0.222	0.660	0.660	0.041	0.220	0.866
LTE B38	Ant.0	Front Side 15mm	0.120	0.023	0.088	0.061	0.191	0.191	0.017	0.143	0.328
		Back Side 15mm	0.140	0.055	0.132	0.222	0.660	0.660	0.041	0.195	0.841
LTE B38	Ant.1	Front Side 15mm	0.236	0.023	0.088	0.061	0.191	0.191	0.017	0.259	0.444
		Back Side 15mm	0.393	0.055	0.132	0.222	0.660	0.660	0.041	0.448	1.094
LTE B38	Ant.4	Front Side 15mm	0.071	0.023	0.088	0.061	0.191	0.191	0.017	0.094	0.279
		Back Side 15mm	0.246	0.055	0.132	0.222	0.660	0.660	0.041	0.301	0.947
LTE B41	Ant.0	Front Side 15mm	0.107	0.023	0.088	0.061	0.191	0.191	0.017	0.130	0.315
		Back Side 15mm	0.126	0.055	0.132	0.222	0.660	0.660	0.041	0.181	0.827
LTE B41	Ant.1	Front Side 15mm	0.189	0.023	0.088	0.061	0.191	0.191	0.017	0.212	0.397
		Back Side 15mm	0.353	0.055	0.132	0.222	0.660	0.660	0.041	0.408	1.054
LTE B41	Ant.4	Front Side 15mm	0.059	0.023	0.088	0.061	0.191	0.191	0.017	0.082	0.267
		Back Side 15mm	0.207	0.055	0.132	0.222	0.660	0.660	0.041	0.262	0.908
		Back Side 15mm	0.150	0.055	0.132	0.222	0.660	0.660	0.041	0.205	0.851

Note:

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

2: The highest Summed 1g SAR is 1.151 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

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

Band	Antenna	Position	Stand alone SAR						SUM SAR	
			1	2	3			4		
			WWAN	MAX. 2.4GWIFI	5.2GWIFI-	5.8GWIFI	MAX. 5GWIFI	BT	WWAN+WIFI2.4G 1+2	WWAN+WIFI5G+BT 1+3+4
GSM850	Ant.0	Front Side 10mm	0.191	0.461	0.029	0.073	0.073	0.036	0.652	0.300
		Back Side 10mm	0.382	0.115	0.050	0.290	0.290	0.088	0.497	0.760
		Left Edge10mm	0.119	0.039	0.114	0.303	0.303	0.009	0.158	0.431
		Right Edge 10mm	0.132	0.020	0.007	0.006	0.007	0.005	0.152	0.144
		Bottom Edge 10mm	0.267	0.009	0.010	0.022	0.022	0.002	0.276	0.291
GSM850	Ant.1	Front Side 10mm	0.261	0.461	0.029	0.073	0.073	0.036	0.722	0.370
		Back Side 10mm	0.454	0.115	0.050	0.290	0.290	0.088	0.569	0.832
		Right Edge 10mm	0.124	0.020	0.007	0.006	0.007	0.005	0.144	0.136
		Top Edge 10mm	0.304	0.084	0.063	0.237	0.237	0.014	0.388	0.555
GSM1900	Ant.0	Front Side 10mm	0.241	0.461	0.029	0.073	0.073	0.036	0.702	0.350
		Back Side 10mm	0.456	0.115	0.050	0.290	0.290	0.088	0.571	0.834
		Left Edge10mm	0.174	0.039	0.114	0.303	0.303	0.009	0.213	0.486
		Right Edge 10mm	0.074	0.020	0.007	0.006	0.007	0.005	0.094	0.086
		Bottom Edge 10mm	0.611	0.009	0.010	0.022	0.022	0.002	0.620	0.635
GSM1900	Ant.1	Front Side 10mm	0.206	0.461	0.029	0.073	0.073	0.036	0.667	0.315
		Back Side 10mm	0.279	0.115	0.050	0.290	0.290	0.088	0.394	0.657
		Right Edge 10mm	0.064	0.020	0.007	0.006	0.007	0.005	0.084	0.076
		Top Edge 10mm	0.504	0.084	0.063	0.237	0.237	0.014	0.588	0.755
WCDMA B2	Ant.0	Front Side 10mm	0.288	0.461	0.029	0.073	0.073	0.036	0.749	0.397
		Back Side 10mm	0.508	0.115	0.050	0.290	0.290	0.088	0.623	0.886
		Left Edge10mm	0.207	0.039	0.114	0.303	0.303	0.009	0.246	0.519
		Right Edge 10mm	0.073	0.020	0.007	0.006	0.007	0.005	0.093	0.085
		Bottom Edge 10mm	0.700	0.009	0.010	0.022	0.022	0.002	0.709	0.724
WCDMA B2	Ant.1	Front Side 10mm	0.232	0.461	0.029	0.073	0.073	0.036	0.693	0.341
		Back Side 10mm	0.259	0.115	0.050	0.290	0.290	0.088	0.374	0.637
		Right Edge 10mm	0.058	0.020	0.007	0.006	0.007	0.005	0.078	0.070
		Top Edge 10mm	0.493	0.084	0.063	0.237	0.237	0.014	0.577	0.744
WCDMA B4	Ant.0	Front Side 10mm	0.370	0.461	0.029	0.073	0.073	0.036	0.831	0.479
		Back Side 10mm	0.770	0.115	0.050	0.290	0.290	0.088	0.885	1.148
		Left Edge10mm	0.185	0.039	0.114	0.303	0.303	0.009	0.224	0.497
		Right Edge 10mm	0.095	0.020	0.007	0.006	0.007	0.005	0.115	0.107
		Bottom Edge 10mm	1.001	0.009	0.010	0.022	0.022	0.002	1.010	1.025
WCDMA B4	Ant.1	Front Side 10mm	0.282	0.461	0.029	0.073	0.073	0.036	0.743	0.391
		Back Side 10mm	0.288	0.115	0.050	0.290	0.290	0.088	0.403	0.666
		Right Edge 10mm	0.062	0.020	0.007	0.006	0.007	0.005	0.082	0.074
		Top Edge 10mm	0.559	0.084	0.063	0.237	0.237	0.014	0.643	0.810

WCDMA B5	Ant.0	Front Side 10mm	0.394	0.461	0.029	0.073	0.073	0.036	0.855	0.503
		Back Side 10mm	0.748	0.115	0.050	0.290	0.290	0.088	0.863	1.126
		Left Edge10mm	0.123	0.039	0.114	0.303	0.303	0.009	0.162	0.435
		Right Edge 10mm	0.072	0.020	0.007	0.006	0.007	0.005	0.092	0.084
		Bottom Edge 10mm	1.181	0.009	0.010	0.022	0.022	0.002	1.190	1.205
WCDMA B5	Ant.1	Front Side 10mm	0.385	0.461	0.029	0.073	0.073	0.036	0.846	0.494
		Back Side 10mm	0.414	0.115	0.050	0.290	0.290	0.088	0.529	0.792
		Right Edge 10mm	0.083	0.020	0.007	0.006	0.007	0.005	0.103	0.095
		Top Edge 10mm	0.703	0.084	0.063	0.237	0.237	0.014	0.787	0.954
LTE B2	Ant.0	Front Side 10mm	0.330	0.461	0.029	0.073	0.073	0.036	0.791	0.439
		Back Side 10mm	0.635	0.115	0.050	0.290	0.290	0.088	0.750	1.013
		Left Edge10mm	0.183	0.039	0.114	0.303	0.303	0.009	0.222	0.495
		Right Edge 10mm	0.070	0.020	0.007	0.006	0.007	0.005	0.090	0.082
		Bottom Edge 10mm	0.996	0.009	0.010	0.022	0.022	0.002	1.005	1.020
LTE B2	Ant.1	Front Side 10mm	0.245	0.461	0.029	0.073	0.073	0.036	0.706	0.354
		Back Side 10mm	0.251	0.115	0.050	0.290	0.290	0.088	0.366	0.629
		Right Edge 10mm	0.053	0.020	0.007	0.006	0.007	0.005	0.073	0.065
		Top Edge 10mm	0.548	0.084	0.063	0.237	0.237	0.014	0.632	0.799
LTE B4	Ant.0	Front Side 10mm	0.367	0.461	0.029	0.073	0.073	0.036	0.828	0.476
		Back Side 10mm	0.738	0.115	0.050	0.290	0.290	0.088	0.853	1.116
		Left Edge10mm	0.152	0.039	0.114	0.303	0.303	0.009	0.191	0.464
		Right Edge 10mm	0.076	0.020	0.007	0.006	0.007	0.005	0.096	0.088
		Bottom Edge 10mm	1.160	0.009	0.010	0.022	0.022	0.002	1.169	1.184
LTE B4	Ant.1	Front Side 10mm	0.246	0.461	0.029	0.073	0.073	0.036	0.707	0.355
		Back Side 10mm	0.252	0.115	0.050	0.290	0.290	0.088	0.367	0.630
		Right Edge 10mm	0.054	0.020	0.007	0.006	0.007	0.005	0.074	0.066
		Top Edge 10mm	0.442	0.084	0.063	0.237	0.237	0.014	0.526	0.693
LTE B5	Ant.0	Front Side 10mm	0.178	0.461	0.029	0.073	0.073	0.036	0.639	0.287
		Back Side 10mm	0.333	0.115	0.050	0.290	0.290	0.088	0.448	0.711
		Left Edge10mm	0.117	0.039	0.114	0.303	0.303	0.009	0.156	0.429
		Right Edge 10mm	0.238	0.020	0.007	0.006	0.007	0.005	0.258	0.250
		Bottom Edge 10mm	0.260	0.009	0.010	0.022	0.022	0.002	0.269	0.284
LTE B5	Ant.1	Front Side 10mm	0.274	0.461	0.029	0.073	0.073	0.036	0.735	0.383
		Back Side 10mm	0.469	0.115	0.050	0.290	0.290	0.088	0.584	0.847
		Right Edge 10mm	0.254	0.020	0.007	0.006	0.007	0.005	0.274	0.266
		Top Edge 10mm	0.927	0.084	0.063	0.237	0.237	0.014	1.011	1.178
LTE B7	Ant.0	Front Side 10mm	0.234	0.461	0.029	0.073	0.073	0.036	0.695	0.343
		Back Side 10mm	0.496	0.115	0.050	0.290	0.290	0.088	0.611	0.874
		Left Edge10mm	0.166	0.039	0.114	0.303	0.303	0.009	0.205	0.478
		Right Edge 10mm	0.028	0.020	0.007	0.006	0.007	0.005	0.048	0.040
		Bottom Edge 10mm	0.196	0.009	0.010	0.022	0.022	0.002	0.205	0.220
LTE B7	Ant.1	Front Side 10mm	0.274	0.461	0.029	0.073	0.073	0.036	0.735	0.383
		Back Side 10mm	0.469	0.115	0.050	0.290	0.290	0.088	0.584	0.847

		Right Edge 10mm	0.254	0.020	0.007	0.006	0.007	0.005	0.274	0.266
		Top Edge 10mm	0.927	0.084	0.063	0.237	0.237	0.014	1.011	1.178
LTE B7	Ant.4	Front Side 10mm	0.114	0.461	0.029	0.073	0.073	0.036	0.575	0.223
		Back Side 10mm	0.422	0.115	0.050	0.290	0.290	0.088	0.537	0.800
		Right Edge 10mm	0.453	0.020	0.007	0.006	0.007	0.005	0.473	0.465
		Top Edge 10mm	0.016	0.084	0.063	0.237	0.237	0.014	0.100	0.267
LTE B12	Ant.0	Front Side 10mm	0.102	0.461	0.029	0.073	0.073	0.036	0.563	0.211
		Back Side 10mm	0.168	0.115	0.050	0.290	0.290	0.088	0.283	0.546
		Left Edge10mm	0.116	0.039	0.114	0.303	0.303	0.009	0.155	0.428
		Right Edge 10mm	0.188	0.020	0.007	0.006	0.007	0.005	0.208	0.200
		Bottom Edge 10mm	0.080	0.009	0.010	0.022	0.022	0.002	0.089	0.104
LTE B12	Ant.1	Front Side 10mm	0.111	0.461	0.029	0.073	0.073	0.036	0.572	0.220
		Back Side 10mm	0.128	0.115	0.050	0.290	0.290	0.088	0.243	0.506
		Right Edge 10mm	0.274	0.020	0.007	0.006	0.007	0.005	0.294	0.286
		Top Edge 10mm	0.111	0.084	0.063	0.237	0.237	0.014	0.195	0.362
LTE B13	Ant.0	Front Side 10mm	0.127	0.461	0.029	0.073	0.073	0.036	0.588	0.236
		Back Side 10mm	0.315	0.115	0.050	0.290	0.290	0.088	0.430	0.693
		Left Edge10mm	0.096	0.039	0.114	0.303	0.303	0.009	0.135	0.408
		Right Edge 10mm	0.151	0.020	0.007	0.006	0.007	0.005	0.171	0.163
		Bottom Edge 10mm	0.178	0.009	0.010	0.022	0.022	0.002	0.187	0.202
LTE B13	Ant.1	Front Side 10mm	0.195	0.461	0.029	0.073	0.073	0.036	0.656	0.304
		Back Side 10mm	0.250	0.115	0.050	0.290	0.290	0.088	0.365	0.628
		Right Edge 10mm	0.142	0.020	0.007	0.006	0.007	0.005	0.162	0.154
		Top Edge 10mm	0.255	0.084	0.063	0.237	0.237	0.014	0.339	0.506
LTE B17	Ant.0	Front Side 10mm	0.099	0.461	0.029	0.073	0.073	0.036	0.560	0.208
		Back Side 10mm	0.239	0.115	0.050	0.290	0.290	0.088	0.354	0.617
		Left Edge10mm	0.090	0.039	0.114	0.303	0.303	0.009	0.129	0.402
		Right Edge 10mm	0.200	0.020	0.007	0.006	0.007	0.005	0.220	0.212
		Bottom Edge 10mm	0.102	0.009	0.010	0.022	0.022	0.002	0.111	0.126
LTE B17	Ant.1	Front Side 10mm	0.107	0.461	0.029	0.073	0.073	0.036	0.568	0.216
		Back Side 10mm	0.119	0.115	0.050	0.290	0.290	0.088	0.234	0.497
		Right Edge 10mm	0.135	0.020	0.007	0.006	0.007	0.005	0.155	0.147
		Top Edge 10mm	0.157	0.084	0.063	0.237	0.237	0.014	0.241	0.408
LTE B26	Ant.0	Front Side 10mm	0.145	0.461	0.029	0.073	0.073	0.036	0.606	0.254
		Back Side 10mm	0.324	0.115	0.050	0.290	0.290	0.088	0.439	0.702
		Left Edge10mm	0.089	0.039	0.114	0.303	0.303	0.009	0.128	0.401
		Right Edge 10mm	0.230	0.020	0.007	0.006	0.007	0.005	0.250	0.242
		Top Edge 10mm	0.189	0.009	0.010	0.022	0.022	0.002	0.198	0.213
LTE B26	Ant.1	Front Side 10mm	0.173	0.461	0.029	0.073	0.073	0.036	0.634	0.282
		Back Side 10mm	0.225	0.115	0.050	0.290	0.290	0.088	0.340	0.603
		Right Edge 10mm	0.103	0.020	0.007	0.006	0.007	0.005	0.123	0.115
		Top Edge 10mm	0.242	0.084	0.063	0.237	0.237	0.014	0.326	0.493
LTE B38	Ant.0	Front Side 10mm	0.126	0.461	0.029	0.073	0.073	0.036	0.587	0.235

		Back Side 10mm	0.148	0.115	0.050	0.290	0.290	0.088	0.263	0.526
		Left Edge10mm	0.093	0.039	0.114	0.303	0.303	0.009	0.132	0.405
		Right Edge 10mm	0.007	0.020	0.007	0.006	0.007	0.005	0.027	0.019
		Top Edge 10mm	0.108	0.009	0.010	0.022	0.022	0.002	0.117	0.132
LTE B38	Ant.1	Front Side 10mm	0.276	0.461	0.029	0.073	0.073	0.036	0.737	0.385
		Back Side 10mm	0.732	0.115	0.050	0.290	0.290	0.088	0.847	1.110
		Right Edge 10mm	0.287	0.020	0.007	0.006	0.007	0.005	0.307	0.299
		Top Edge 10mm	1.136	0.084	0.063	0.237	0.237	0.014	1.220	1.387
LTE B38	Ant.4	Front Side 10mm	0.114	0.461	0.029	0.073	0.073	0.036	0.575	0.223
		Back Side 10mm	0.578	0.115	0.050	0.290	0.290	0.088	0.693	0.956
		Right Edge 10mm	0.444	0.020	0.007	0.006	0.007	0.005	0.464	0.456
		Top Edge 10mm	0.020	0.084	0.063	0.237	0.237	0.014	0.104	0.271
LTE B41	Ant.0	Front Side 10mm	0.208	0.461	0.029	0.073	0.073	0.036	0.669	0.317
		Back Side 10mm	0.242	0.115	0.050	0.290	0.290	0.088	0.357	0.620
		Left Edge10mm	0.147	0.039	0.114	0.303	0.303	0.009	0.186	0.459
		Right Edge 10mm	0.014	0.020	0.007	0.006	0.007	0.005	0.034	0.026
		Top Edge 10mm	0.177	0.009	0.010	0.022	0.022	0.002	0.186	0.201
LTE B41	Ant.1	Front Side 10mm	0.321	0.461	0.029	0.073	0.073	0.036	0.782	0.430
		Back Side 10mm	0.833	0.115	0.050	0.290	0.290	0.088	0.948	1.211
		Right Edge 10mm	0.314	0.020	0.007	0.006	0.007	0.005	0.334	0.326
		Top Edge 10mm	1.197	0.084	0.063	0.237	0.237	0.014	1.281	**1.448**
LTE B41	Ant.4	Front Side 10mm	0.030	0.461	0.029	0.073	0.073	0.036	0.491	0.139
		Back Side 10mm	0.453	0.115	0.050	0.290	0.290	0.088	0.568	0.831
		Right Edge 10mm	0.323	0.020	0.007	0.006	0.007	0.005	0.343	0.335
		Top Edge 10mm	0.020	0.084	0.063	0.237	0.237	0.014	0.104	0.271
		Back Side 10mm	0.352	0.115	0.050	0.290	0.290	0.088	0.467	0.730
		Left Edge 10mm	0.147	0.020	0.007	0.006	0.007	0.005	0.167	0.159
		Top Edge 10mm	0.305	0.084	0.063	0.237	0.237	0.014	0.389	0.556

Note:

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

2: The highest Summed 1g SAR is 1.448 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

13.2.4 Specific Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN

Band	Antenna	Position	Stand alone SAR		SUM SAR
			1	3	
			WWAN	MAX. 5GWIFI	WWAN+WIFI5G 1+3
WCDMA B4	Ant.0	Bottom Edge 0mm	2.788	0.019	**2.807**
LTE B4	Ant.0	Bottom Edge 0mm	2.385	0.019	2.404
LTE B7	Ant.1	Top Edge 0mm	2.494	0.173	2.667

Note:

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

2: The highest Summed 1g SAR is 2.807 W/Kg < 4.0 W/kg, so Simultaneous Transmission SAR test is not required.

14 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: 1201	2020/11/11	2023/11/10
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
3500MHz Validation Dipole	Speag	D3500V2	SN: 1115	2020/11/11	2023/11/10
5GHz Validation Dipole	Speag	D5GHzV2	SN: 1200	2021/05/18	2024/05/17
E-Field Probe	Speag	EX3DV4	SN: 7510	2023/01/19	2024/01/18
Data Acquisition Electronicsr	Speag	DAE4	SN: 1454	2023/03/20	2024/03/19
Signal Generator	R&S	SMB100A	177746	2023/05/10	2024/05/09
Power Meter	R&S	NRVD-B2	835843/014	2022/09/06	2023/09/05
Power Sensor	R&S	NRV-Z4	100381	2022/09/06	2023/09/05
Power Sensor	R&S	NRV-Z2	100211	2022/09/06	2023/09/05
Wireless Communication Test Set	Anritsu	MT8820C	6201502974	2022/12/28	2023/12/27
Network Analyzer	Agilent	E5071C	MY46103472	2022/12/06	2023/12/05
Thermometer	Elitech	RC-4HC	EF720B004811	2022/11/25	2023/11/24
Thermometer	Elitech	RC-4HC	EF720B004817	2022/11/18	2023/11/17
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: 1857	N/A	N/A
Attenuator	COM-MW	ZA-S1-31	1305003187	N/A	N/A
Directional coupler	AA-MCS	AAMCS-UDC	000272	N/A	N/A

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

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

ANNEX A SIMULATING LIQUID VERIFICATION RESULT

The dielectric parameters of the liquids were verified prior to the SAR evaluation using a DAK3.5 Dielectric Probe Kit.

Head Liquid

Date	Liquid Type	Fre. (MHz)	Temp. (℃)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ε)	Target Conductivity (σ) (S/m)	Target Permittivity (ε)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2023.06.27	Head	750	21.2	0.89	42.92	0.89	41.94	0.00	2.34
2023.06.28	Head	750	21.3	0.90	43.11	0.89	41.94	1.12	2.79
2023.06.29	Head	750	21.6	0.89	41.94	0.89	41.94	0.00	0.00
2023.06.30	Head	835	21.5	0.90	41.76	0.90	41.50	0.00	0.63
2023.07.01	Head	835	21.2	0.87	41.88	0.90	41.50	-3.33	0.92
2023.07.02	Head	835	21.5	0.91	42.44	0.90	41.50	1.11	2.27
2023.07.03	Head	835	21.3	0.89	42.54	0.90	41.50	-1.11	2.51
2023.07.04	Head	1750	21.9	1.40	39.62	1.37	40.08	2.19	-1.15
2023.07.05	Head	1750	21.5	1.38	41.16	1.37	40.08	0.73	2.69
2023.07.06	Head	1900	21.8	1.36	40.00	1.40	40.00	-2.86	0.00
2023.07.07	Head	1900	21.6	1.42	39.48	1.40	40.00	1.43	-1.30
2023.07.08	Head	1900	21.2	1.43	39.68	1.40	40.00	2.14	-0.80
2023.07.09	Head	2450	21.8	1.78	39.34	1.80	39.20	-1.11	0.36
2023.07.10	Head	2600	21.7	1.91	39.05	1.96	39.01	-2.55	0.10
2023.07.11	Head	2600	21.6	2.00	39.85	1.96	39.01	2.04	2.15
2023.07.12	Head	2600	21.8	1.98	38.01	1.96	39.01	1.02	-2.56
2023.07.16	Head	3500	21.5	2.87	38.38	2.91	37.93	-1.37	1.19
2023.07.13	Head	5250	21.1	4.77	35.28	4.71	35.93	1.27	-1.81
2023.07.14	Head	5600	21.6	5.12	34.86	5.07	35.53	0.99	-1.89
2023.07.15	Head	5750	21.3	5.12	35.04	5.22	35.36	-1.92	-0.90
Note: The tolerance limit of Conductivity and Permittivity is± 5%.									

ANNEX B SYSTEM CHECK RESULT

Comparing to the original SAR value provided by SPEAG, the validation data should be within itsspecification 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 (%)
2023.06.27	Head	750	100	0.85	8.49	8.29	2.53
2023.06.28	Head	750	100	0.85	8.48	8.29	2.53
2023.06.29	Head	750	100	0.81	8.09	8.29	-2.29
2023.06.30	Head	835	100	0.97	9.72	9.76	-0.61
2023.07.01	Head	835	100	0.98	9.78	9.76	0.41
2023.07.02	Head	835	100	0.96	9.59	9.76	-1.64
2023.07.03	Head	835	100	0.99	9.85	9.76	1.43
2023.07.04	Head	1750	100	3.69	36.89	36.7	0.54
2023.07.05	Head	1750	100	3.74	37.40	36.7	1.91
2023.07.06	Head	1900	100	4.09	40.9	40.3	1.49
2023.07.07	Head	1900	100	4.07	40.7	40.3	0.99
2023.07.08	Head	1900	100	4.09	40.9	40.3	1.49
2023.07.09	Head	2450	100	5.34	53.4	53	0.75
2023.07.10	Head	2600	100	5.70	57.0	56.8	0.35
2023.07.11	Head	2600	100	5.74	57.4	56.8	1.06
2023.07.12	Head	2600	100	5.66	56.6	56.8	-0.35
2023.07.16	Head	3500	100	6.83	68.3	66.8	2.25
2023.07.13	Head	5250	100	7.82	78.2	77.8	0.51
2023.07.14	Head	5600	100	8.18	81.8	81.2	0.74
2023.07.15	Head	5750	100	7.71	77.1	77.2	-0.13
Note: The tolerance limit of System validation ±10%.							

Head liquid 10g

Date	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2023.06.27	750	100	0.56	5.58	5.38	4.09
2023.06.28	750	100	0.56	5.57	5.38	4.09
2023.06.29	750	100	0.52	5.18	5.38	-3.35
2023.07.04	Head	1750	1.93	19.29	19.10	1.05
2023.07.05	Head	1750	1.96	19.60	19.10	2.62
2023.07.06	Head	1900	2.07	20.7	20.30	1.97
2023.07.07	Head	1900	2.05	20.5	20.30	0.99
2023.07.08	Head	1900	2.08	20.8	20.30	2.46
2023.07.09	Head	2450	2.44	24.40	24.10	1.24
2023.07.10	Head	2600	2.49	24.90	24.80	0.40
2023.07.11	Head	2600	2.53	25.30	24.80	2.02
2023.07.12	Head	2600	2.44	24.40	24.80	-1.61
2023.07.16	Head	3500	2.49	24.90	25.20	-1.19
Note: The tolerance limit of System validation ±10%.						

System Performance Check Data (750MHz)

Date: 2023.06.27

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

Medium parameters used (extrapolated): f = 750 MHz; σ = 0.889 S/m; ε_r = 42.916; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.2℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.4, 10.4, 10.4); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 750 100mW/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.844 W/kg

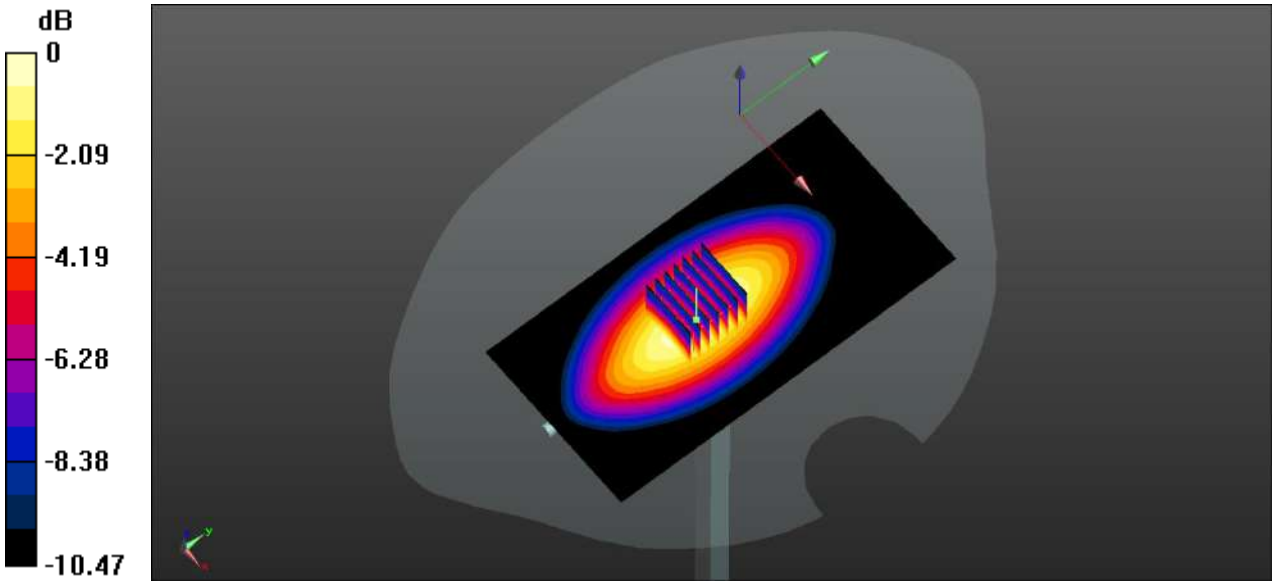
CW 750 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 33.22 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.849 W/kg; SAR(10 g) = 0.558 W/kg

Maximum value of SAR (measured) = 0.867 W/kg



0 dB = 0.867 W/kg

System Performance Check Data (750MHz)

Date: 2023.06.28

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

Medium parameters used: f = 750 MHz; σ = 0.904 S/m; ε_r = 43.114; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.4, 10.4, 10.4); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- 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) = 0.894 W/kg

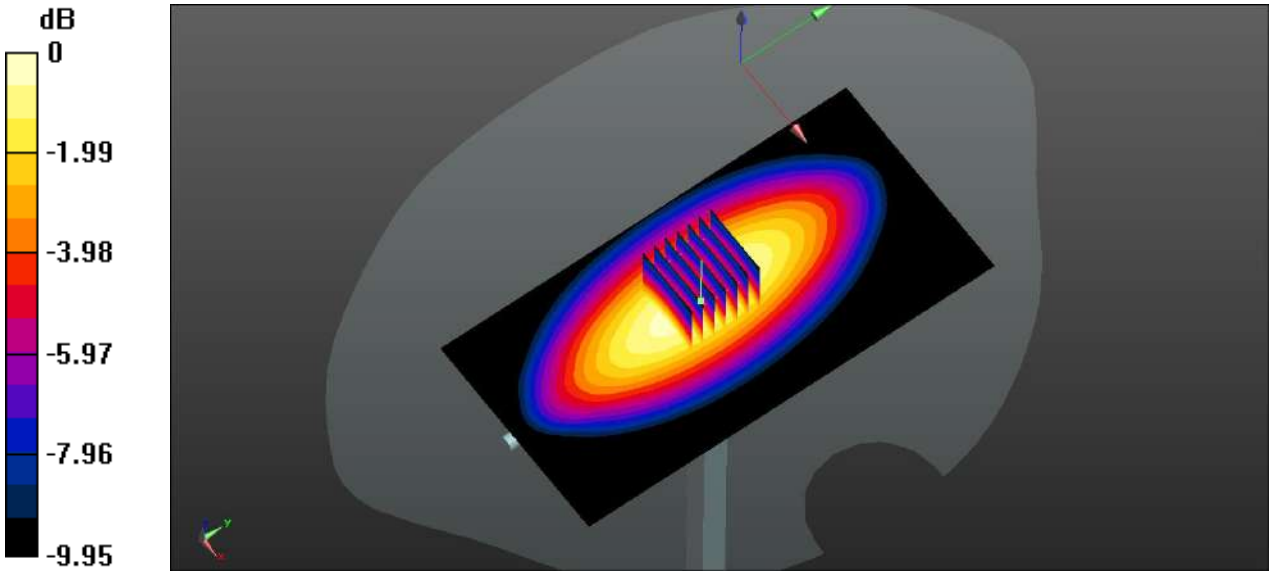
CW 750/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.37 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.848 W/kg; SAR(10 g) = 0.557 W/kg

Maximum value of SAR (measured) = 0.954 W/kg



0 dB = 0.954 W/kg

System Performance Check Data (750MHz)

Date: 2023.06.29

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

Medium parameters used (extrapolated): f = 750 MHz; σ = 0.885 S/m; ε_r = 41.942; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7℃ Liquid Temperature:21.6℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.4, 10.4, 10.4); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 750 100mW/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.815 W/kg

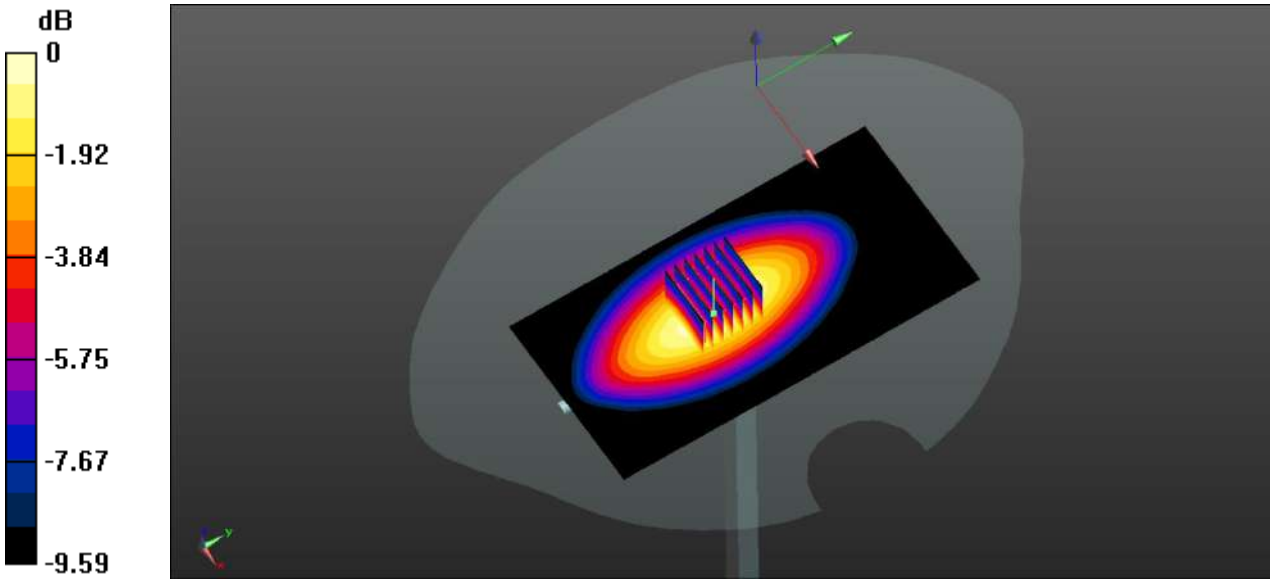
CW 750 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 27.33 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.809 W/kg; SAR(10 g) = 0.518 W/kg

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



0 dB = 0.826 W/kg

System Performance Check Data (835MHz)

Date: 2023.06.30

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

Medium parameters used: f = 835 MHz; σ = 0.902 S/m; ε_r = 41.763; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 1.27 W/kg

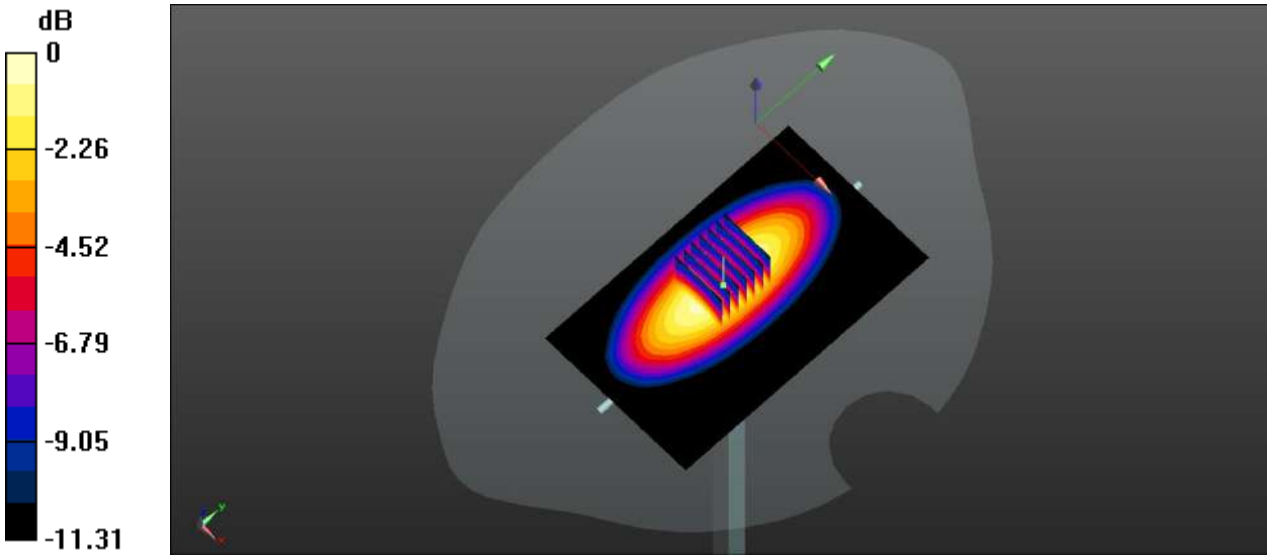
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.97 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.972 W/kg; SAR(10 g) = 0.630 W/kg

Maximum value of SAR (measured) = 1.16 W/kg



0 dB = 1.16 W/kg

System Performance Check Data (835MHz)

Date: 2023.07.01

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

Medium parameters used: f = 835 MHz; σ = 0.874 S/m; ε_r = 41.875; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.2℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

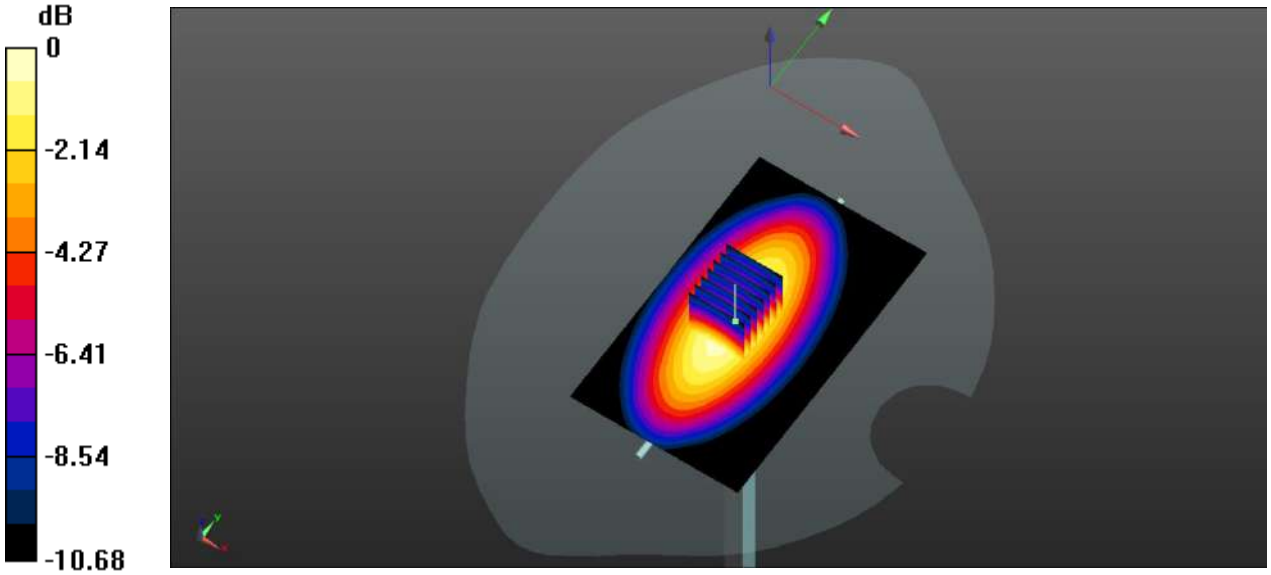
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.52 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.978 W/kg; SAR(10 g) = 0.636 W/kg

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



0 dB = 1.18 W/kg

System Performance Check Data (835MHz)

Date: 2023.07.02

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

Medium parameters used: f = 835 MHz; σ = 00.91 S/m; ε_r = 42.441; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW835 HEAD 100mW/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.939 W/kg

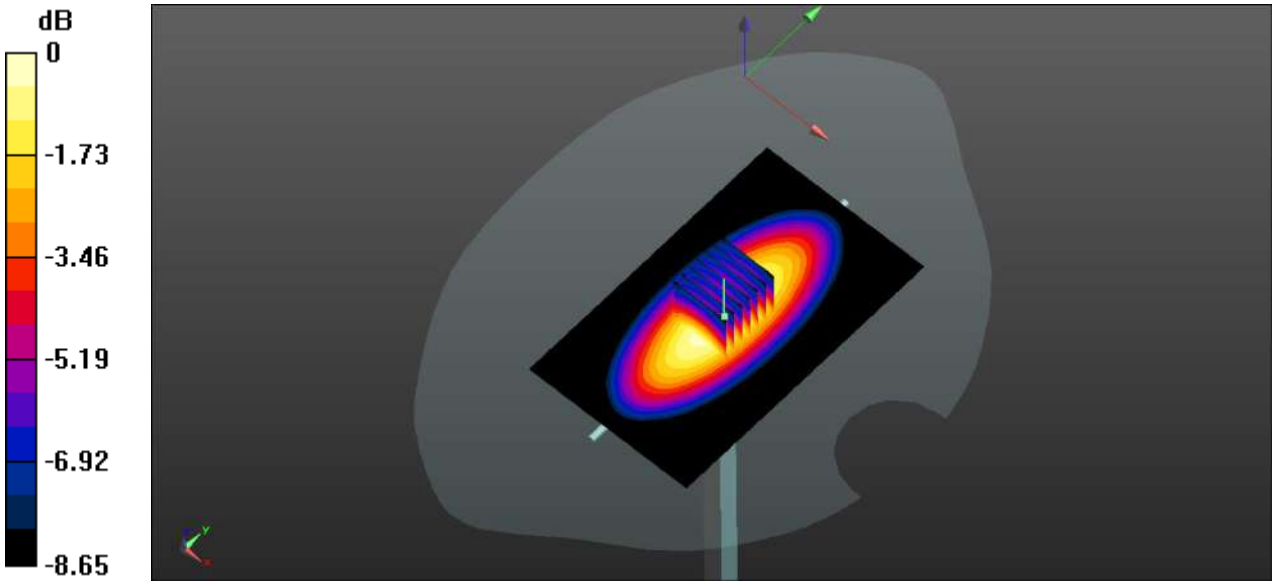
CW835 HEAD 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 29.47 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.959 W/kg; SAR(10 g) = 0.617 W/kg

Maximum value of SAR (measured) = 0.915 W/kg



0 dB = 0.915 W/kg

System Performance Check Data (835MHz)

Date: 2023.07.03

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

Medium parameters used: f = 835 MHz; σ = 0.887 S/m; ε_r = 42.538; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.1℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW835 HEAD 100mW/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.942 W/kg

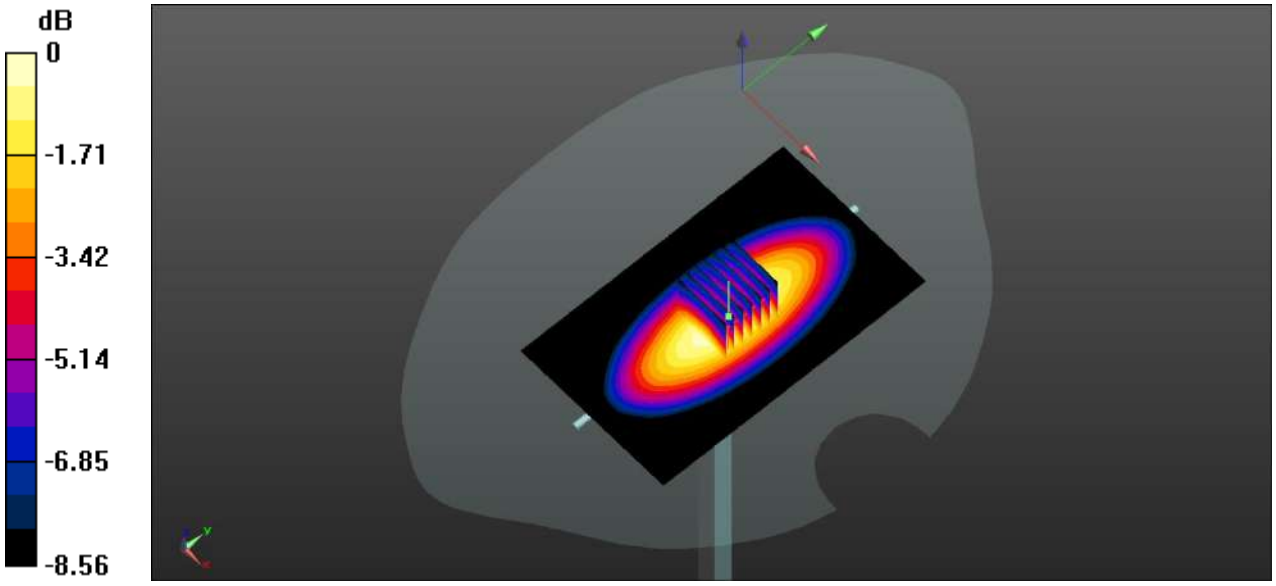
CW835 HEAD 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 36.39 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.97 W/kg

SAR(1 g) = 0.985 W/kg; SAR(10 g) = 0.643 W/kg

Maximum value of SAR (measured) = 0.972 W/kg



0 dB = 0.972 W/kg

System Performance Check Data (1750MHz)

Date: 2023.07.04

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

Medium parameters used: f = 1750 MHz; σ = 1.402 S/m; ε_r = 39.621; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7℃ Liquid Temperature:21.9℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.65, 8.65, 8.65); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 1750 100mw/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.21 W/kg

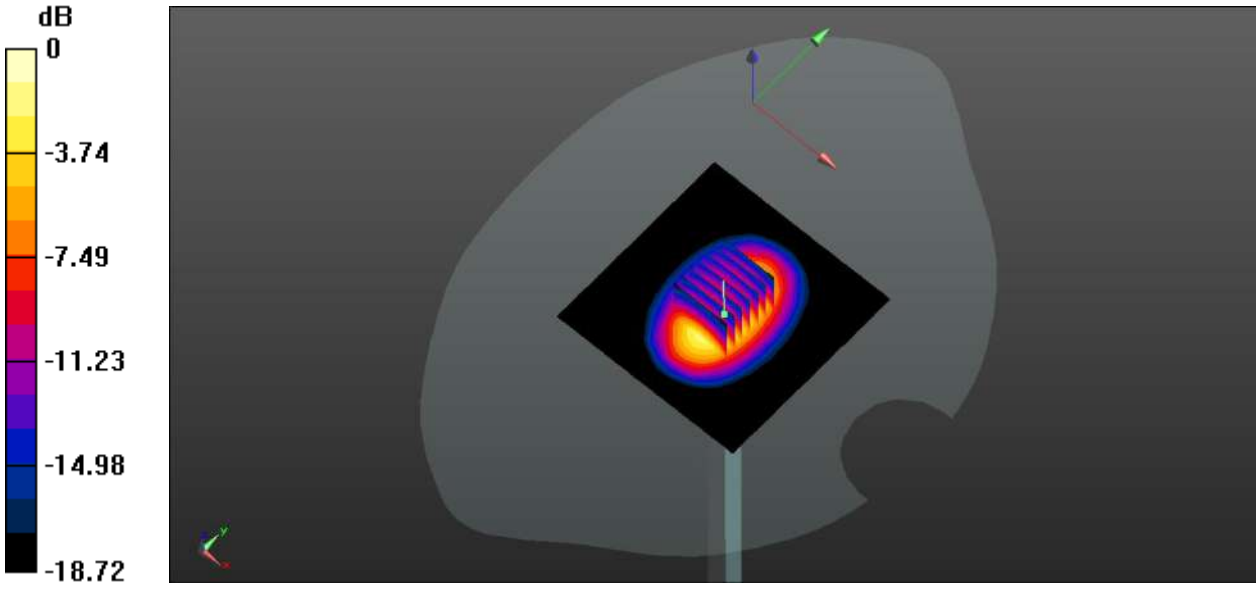
CW 1750 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 37.46 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 7.28 W/kg

SAR(1 g) = 3.68 W/kg; SAR(10 g) = 1.92 W/kg

Maximum value of SAR (measured) = 4.11 W/kg



0 dB = 4.11 W/kg

System Performance Check Data (1750MHz)

Date: 2023.07.05

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

Medium parameters used (interpolated): f = 1750 MHz; σ = 1.376 S/m; ε_r = 41.16; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.65, 8.65, 8.65); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW1750 100mw/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.28 W/kg

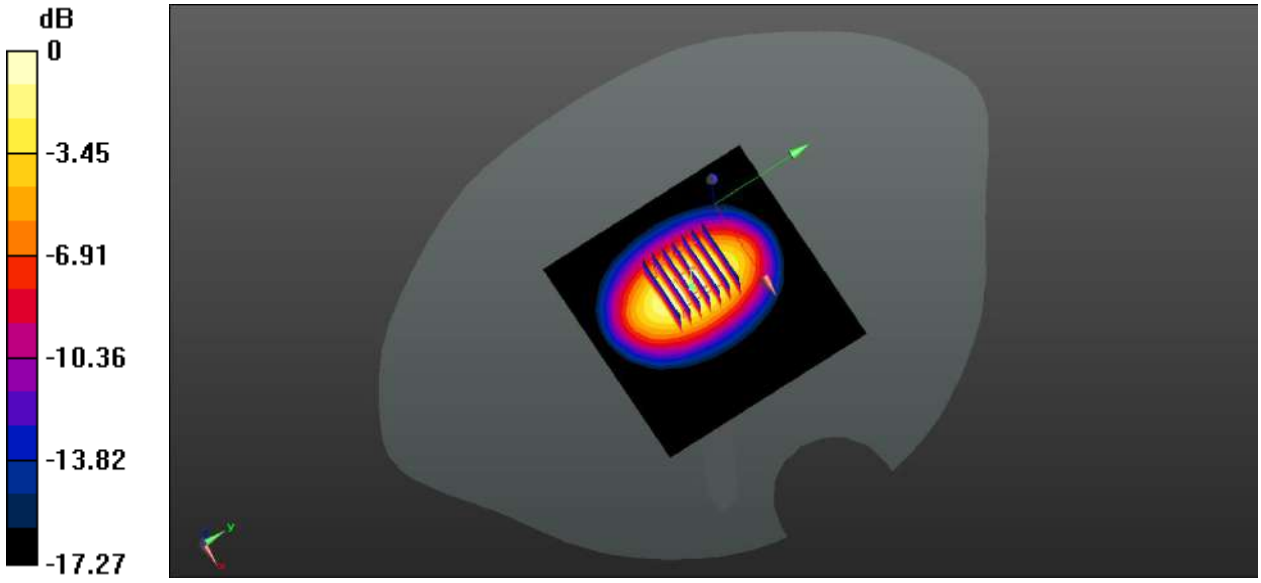
CW1750 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 44.81 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 6.33 W/kg

SAR(1 g) = 3.74 W/kg; SAR(10 g) = 1.96 W/kg

Maximum value of SAR (measured) = 4.42 W/kg



0 dB = 4.42 W/kg

System Performance Check Data (1900MHz)

Date: 2023.07.06

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

Medium parameters used: f = 1900 MHz; σ = 1.355 S/m; ε_r = 39.998; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

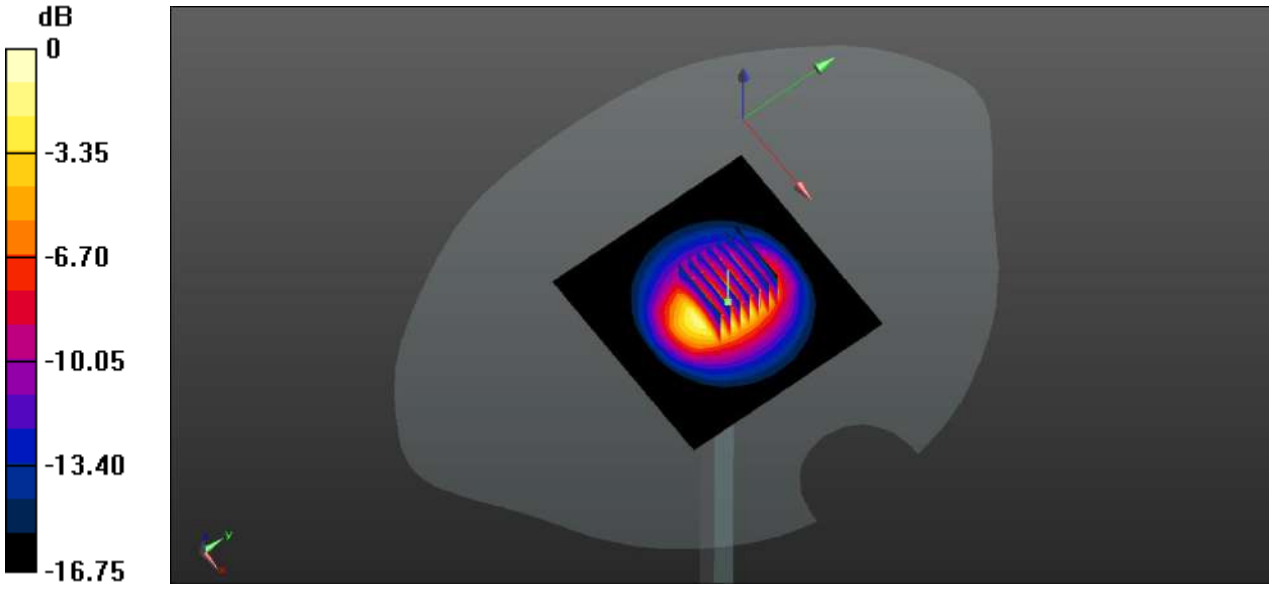
CW 1900 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 45.74 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 7.24 W/kg

SAR(1 g) = 4.09 W/kg; SAR(10 g) = 2.07 W/kg

Maximum value of SAR (measured) = 4.31 W/kg



0 dB = 4.31 W/kg

System Performance Check Data (1900MHz)

Date: 2023.07.07

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

Medium parameters used: f = 1900 MHz; σ = 1.422 S/m; ε_r = 39.482; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.3℃ Liquid Temperature:21.6℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 4.74 W/kg

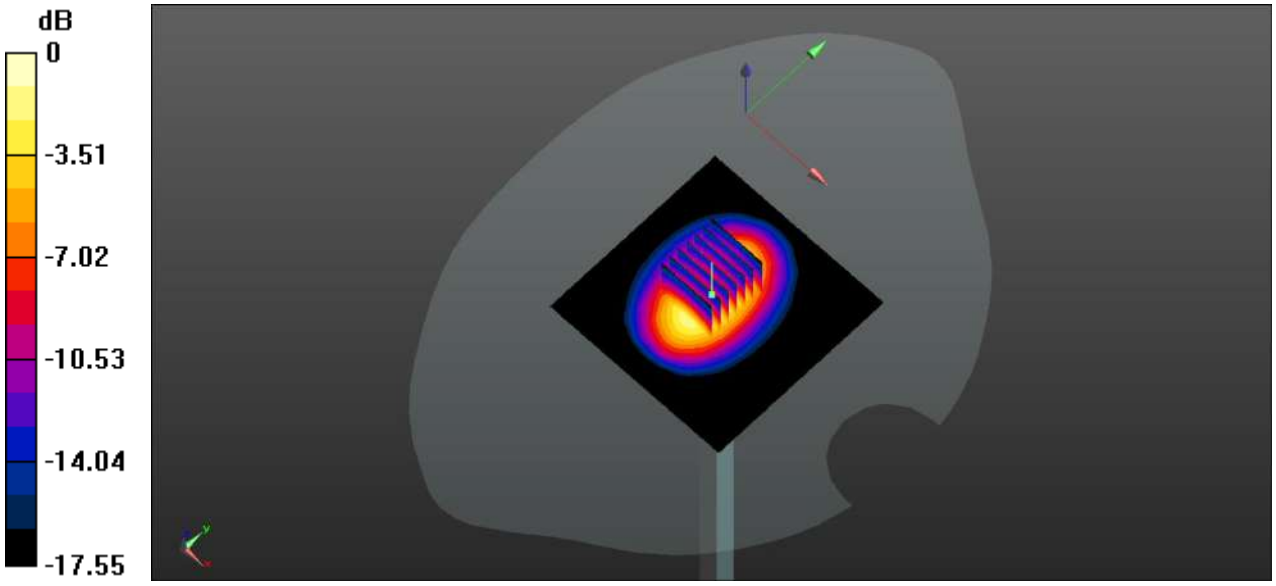
CW 1900 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 51.46 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 8.12 W/kg

SAR(1 g) = 4.07 W/kg; SAR(10 g) = 2.05 W/kg

Maximum value of SAR (measured) = 4.53 W/kg



0 dB = 4.53 W/kg

System Performance Check Data (1900MHz)

Date: 2023.07.08

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

Medium parameters used: f = 1900 MHz; σ = 1.431 S/m; ε_r = 39.68; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7℃ Liquid Temperature:21.2℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

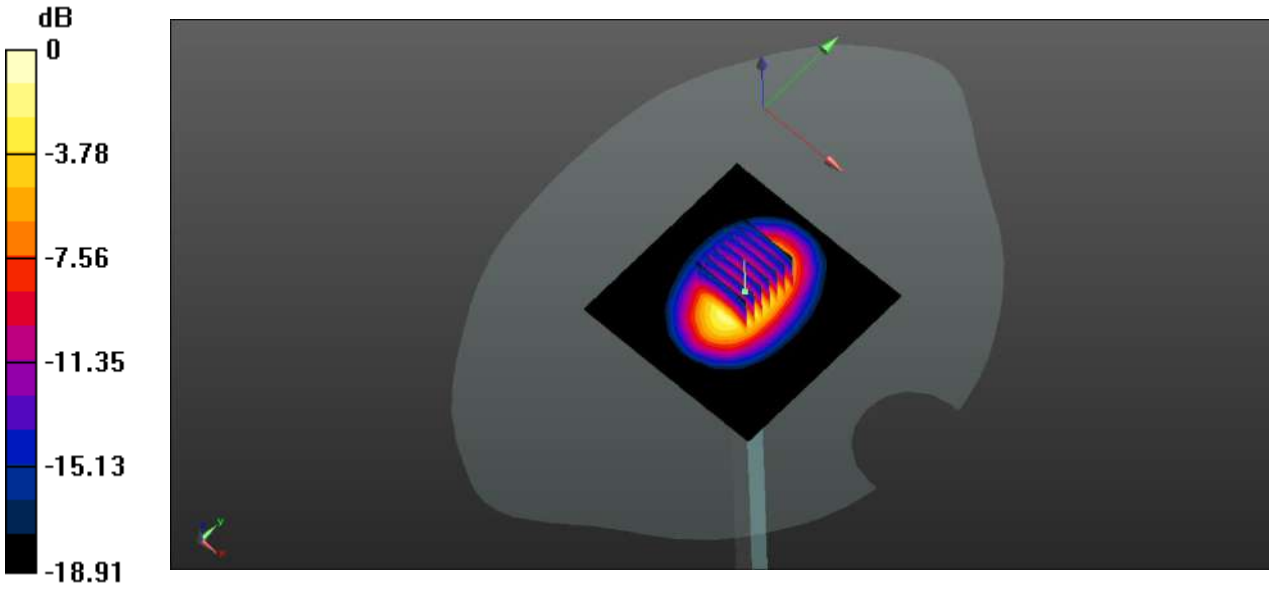
CW 1900 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 49.87 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 7.15 W/kg

SAR(1 g) = 4.09 W/kg; SAR(10 g) = 2.08 W/kg

Maximum value of SAR (measured) = 4.22 W/kg



0 dB = 4.22 W/kg

System Performance Check Data (2450MHz)

Date: 2023.07.09

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

Medium parameters used: f = 2450 MHz; σ = 1.777 S/m; ε_r = 39.34; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.3℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.78, 7.78, 7.78); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 2450 100mw/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.32 W/kg

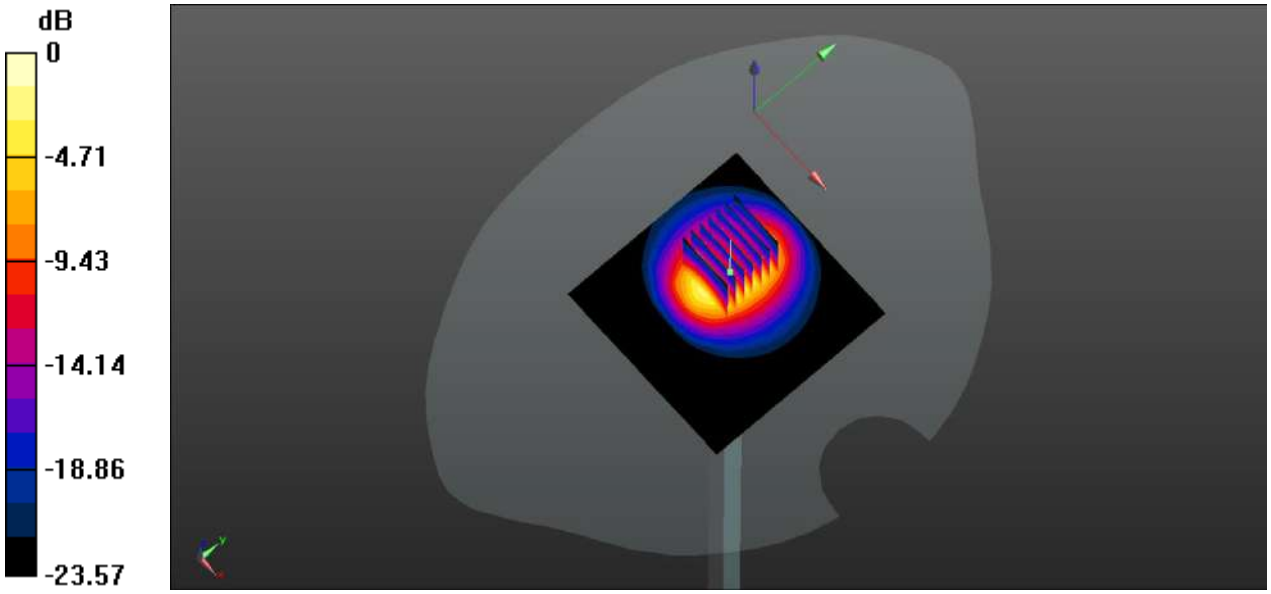
CW 2450 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 33.46 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 10.6 W/kg

SAR(1 g) = 5.34 W/kg; SAR(10 g) = 2.44 W/kg

Maximum value of SAR (measured) = 6.16 W/kg



0 dB = 6.16 W/kg

System Performance Check Data (2600MHz)

Date: 2023.07.10

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

Medium parameters used: f = 2600 MHz; σ = 1.908 S/m; ε_r = 39.046; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.7℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.6, 7.6, 7.6); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

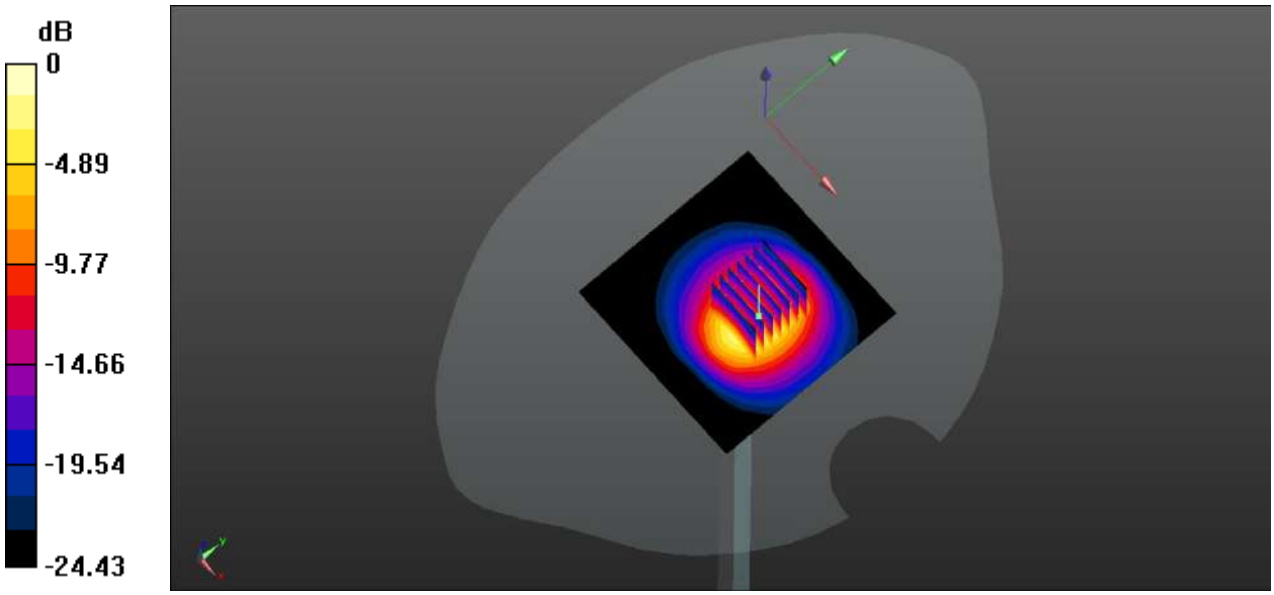
CW 2600 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 37.23 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 12.2 W/kg

SAR(1 g) = 5.8 W/kg; SAR(10 g) = 2.49 W/kg

Maximum value of SAR (measured) = 5.88 W/kg



0 dB = 5.88 W/kg

System Performance Check Data (2600MHz)

Date: 2023.07.11

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

Medium parameters used: f = 2600 MHz; σ = 2.015 S/m; ε_r = 39.727; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2℃ Liquid Temperature:21.6℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.6, 7.6, 7.6); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 6.47 W/kg

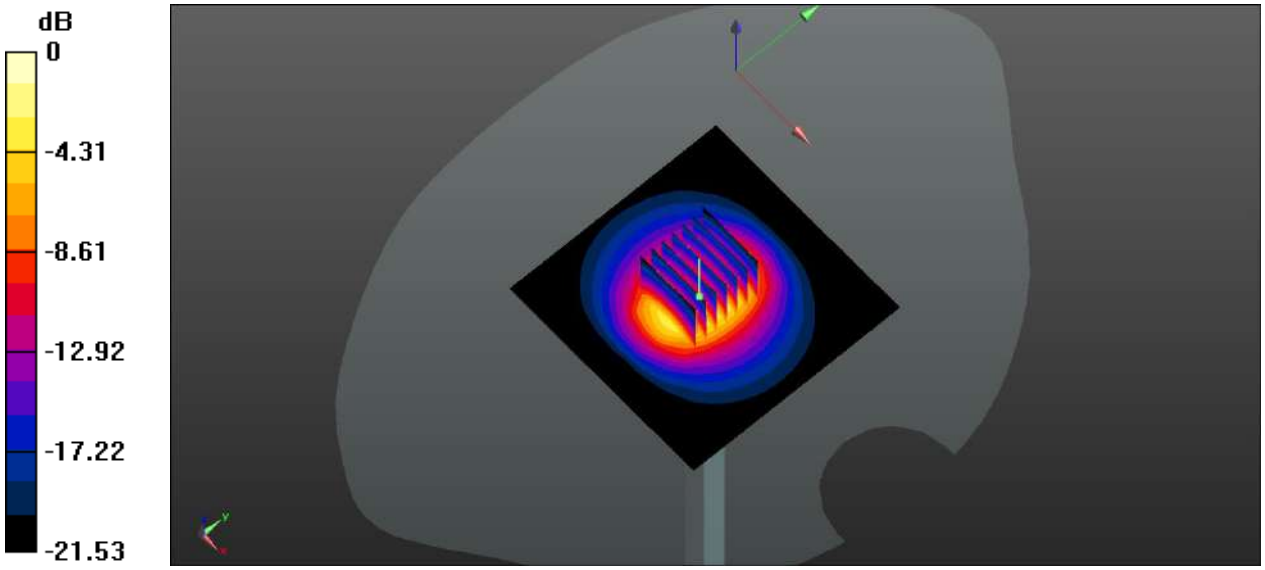
CW 2600 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 39.94 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 12.8 W/kg

SAR(1 g) = 5.74 W/kg; SAR(10 g) = 2.53 W/kg

Maximum value of SAR (measured) = 5.94 W/kg



0 dB = 5.94 W/kg

System Performance Check Data (2600MHz)

Date: 2023.07.12

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

Medium parameters used: f = 2600 MHz; σ = 1.984 S/m; ε_r = 38.006; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.6, 7.6, 7.6); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 6.21 W/kg

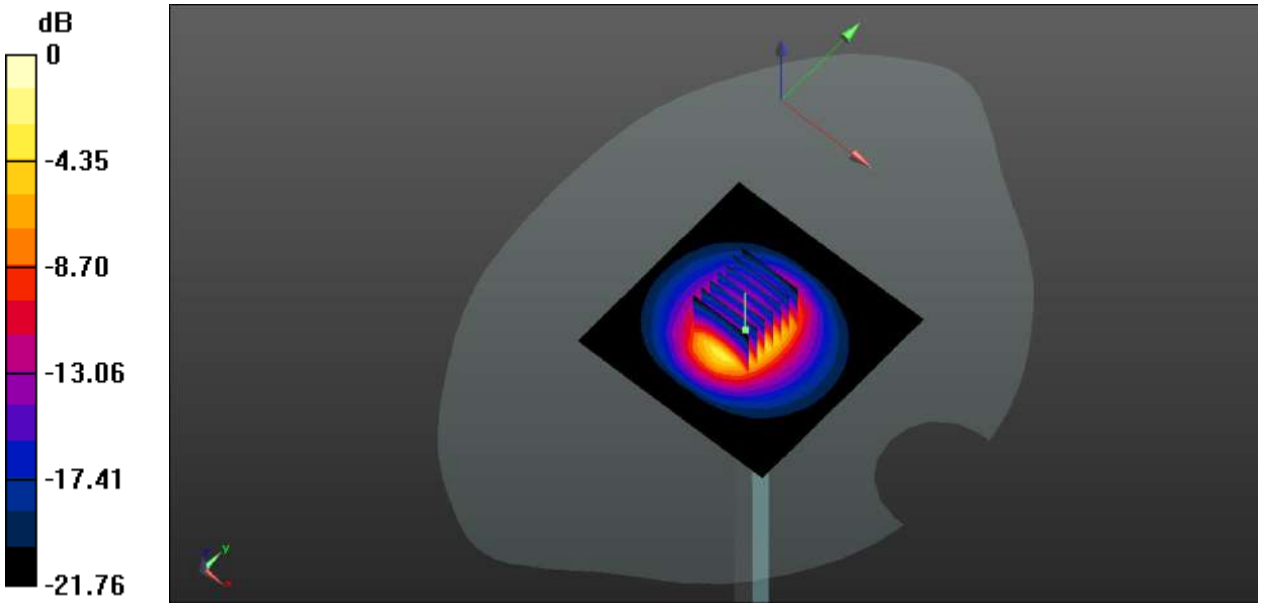
CW 2600 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.55 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 11.5 W/kg

SAR(1 g) = 5.66 W/kg; SAR(10 g) = 2.44 W/kg

Maximum value of SAR (measured) = 6.32 W/kg



0 dB = 6.32 W/kg

System Performance Check Data (3500MHz)

Date: 2023.07.16

Communication System Band: D3500 (3500.0 MHz); Frequency: 3500 MHz;Duty Cycle: 1:1

Medium parameters used: f = 3500 MHz; σ = 2.967 S/m; ε_r = 37.859; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.3℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.15, 7.15, 7.15); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 3500/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.18 W/kg

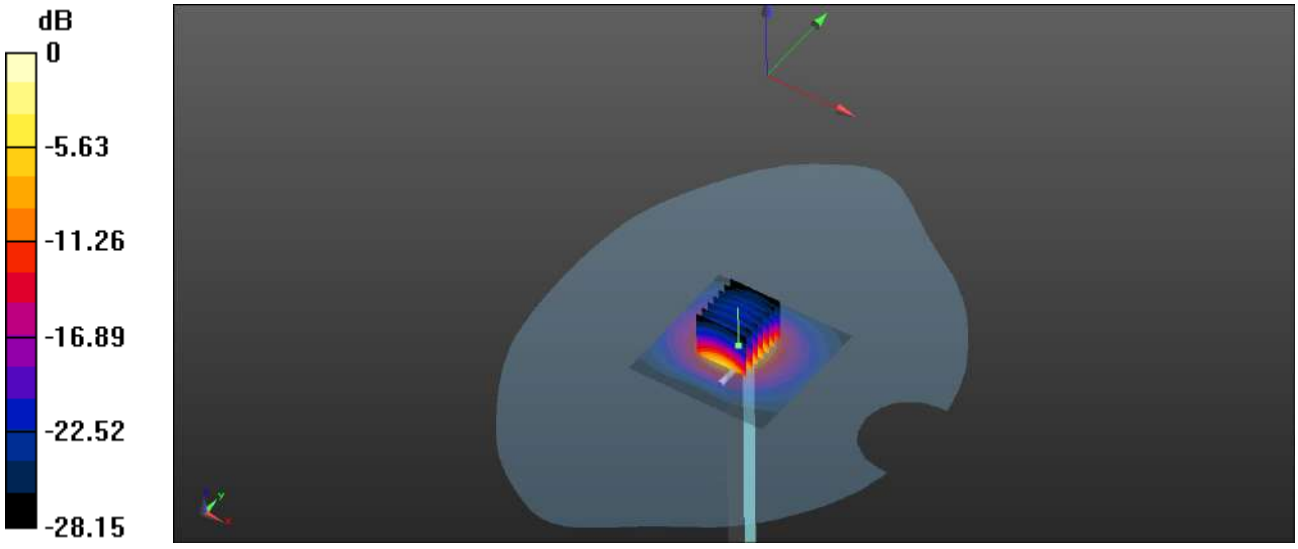
CW 3500/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm

Reference Value = 46.83 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 19.7 W/kg

SAR(1 g) = 6.83 W/kg; SAR(10 g) = 2.49 W/kg

Maximum value of SAR (measured) = 12.3 W/kg



0 dB = 12.3 W/kg

System Performance Check Data (5250MHz)

Date: 2023.07.13

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

Medium parameters used: f = 5250 MHz; σ = 4.77 S/m; ε_r = 35.284; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.1℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.67, 5.67, 5.67); Calibrated: 2023.01.19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 5250 100mW /Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.16 W/kg

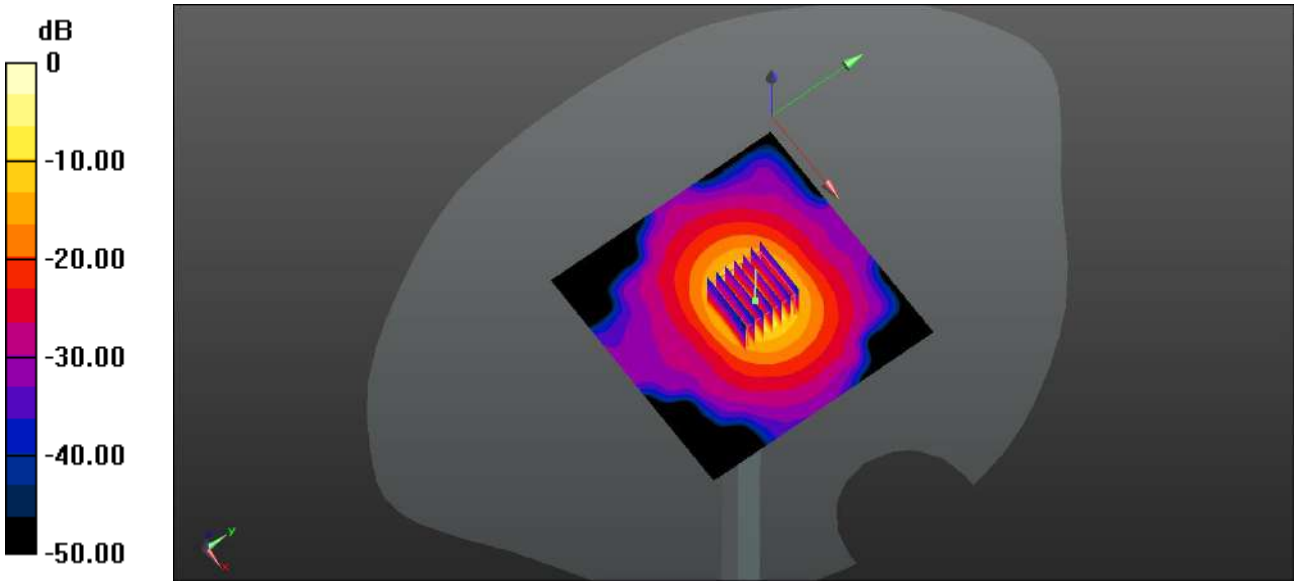
CW 5250 100mW /Zoom Scan (7x7x21)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 41.15 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 32.4 W/kg

SAR(1 g) = 7.82 W/kg; SAR(10 g) = 2.23 W/kg

Maximum value of SAR (measured) = 40.5 W/kg



0 dB = 40.5 W/kg

System Performance Check Data (5600MHz)

Date: 2023.07.14

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

Medium parameters used: f = 5600 MHz; σ = 5.116 S/m; ε_r = 34.855; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.9℃ Liquid Temperature:21.6℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.88, 4.88, 4.88); Calibrated: 2023.01.19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 5600 100mw /Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.77 W/kg

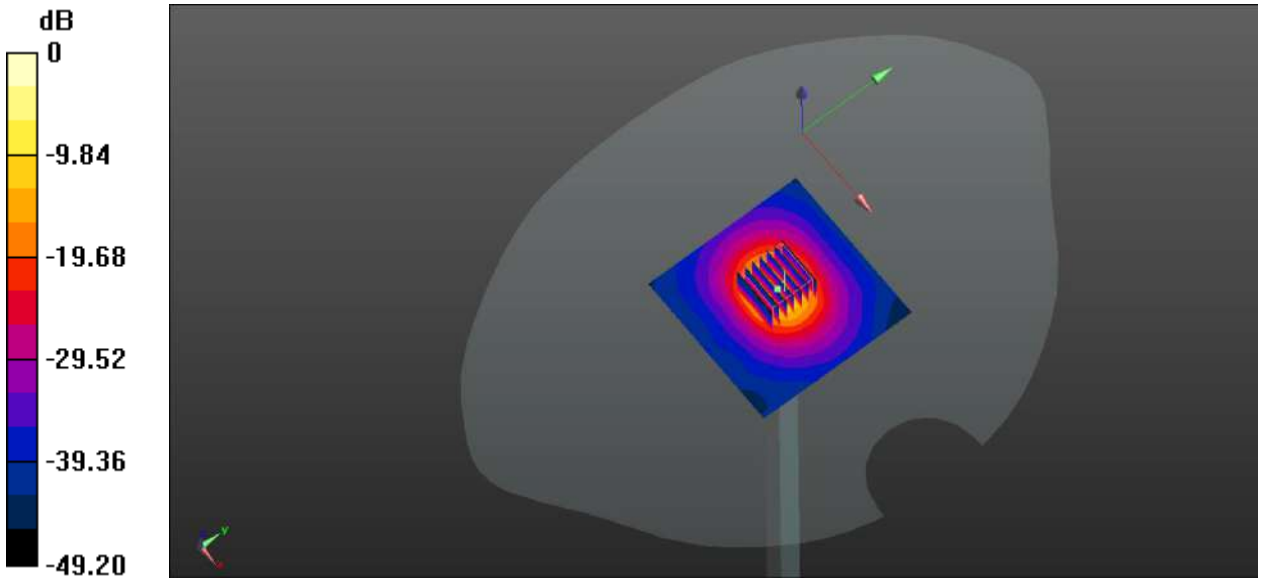
CW 5600 100mw /Zoom Scan (7x7x15)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 35.67 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 36.5 W/kg

SAR(1 g) = 8.18 W/kg; SAR(10 g) = 2.35 W/kg

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



0 dB = 14.7 W/kg

System Performance Check Data (5750MHz)

Date: 2023.07.15

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

Medium parameters used: f = 5750 MHz; σ = 5.12 S/m; ε_r = 35.042; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.83, 4.83, 4.83); Calibrated: 2023.01.19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 5750 100mW/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.48 W/kg

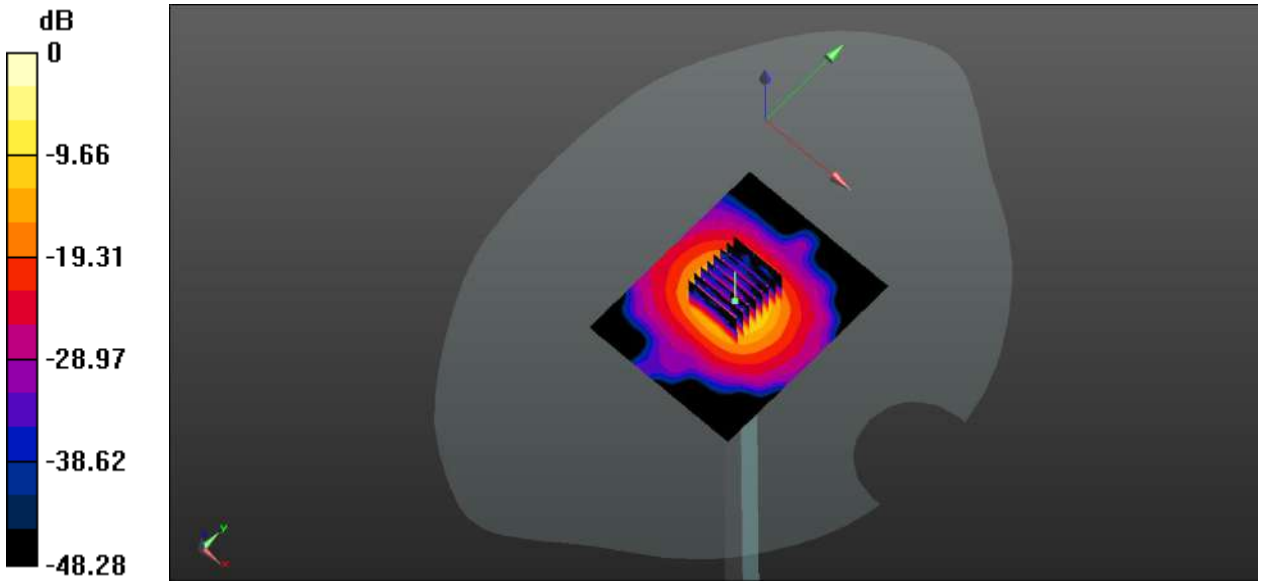
CW 5750 100mW/Zoom Scan (7x7x15)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 37.44 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 38.9 W/kg

SAR(1 g) = 7.71 W/kg; SAR(10 g) = 2.14 W/kg

Maximum value of SAR (measured) = 15.6 W/kg



0 dB = 15.6 W/kg

ANNEX C TEST DATA

Meas.1 Right Head with Cheek on Low Channel GPRS850 2Slots with Antenna 1

Date: 2023.06.30

Communication System Band: GPRS850; Frequency: 824.2 MHz;Duty Cycle: 1:4.1

Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.899 S/m; ε_r = 41.889; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.6℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- 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) = 0.720 W/kg

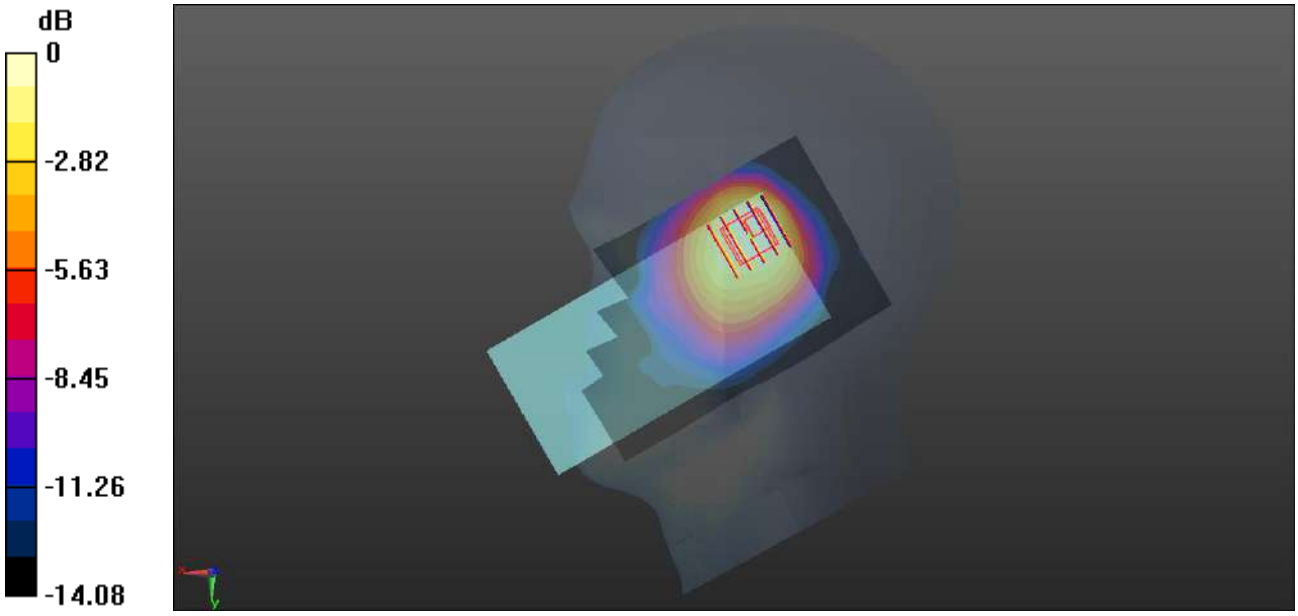
Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.03 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.664 W/kg; SAR(10 g) = 0.422 W/kg

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



0 dB = 0.697 W/kg

Meas.2 Body Plane with Bask Side 15mm on Middle Channel in GPRS850 2Sltos mode with Antenna1

Date: 2023.06.30

Communication System Band: GPRS850; Frequency: 836.6 MHz;Duty Cycle: 1:4.1

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.905 S/m; ε_r = 41.596; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- 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) = 0.190 W/kg

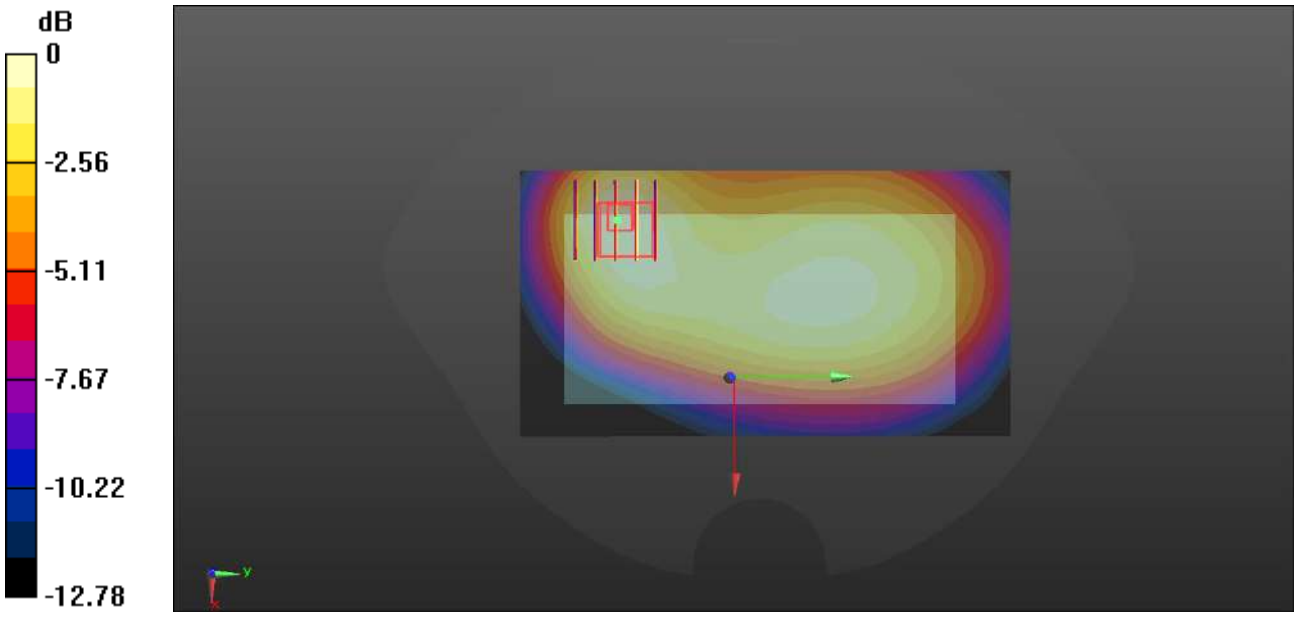
Ch190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.53 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.255 W/kg

SAR(1 g) = 0.172 W/kg; SAR(10 g) = 0.117 W/kg

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



0 dB = 0.185 W/kg

Meas.3 Body Plane with Bask Side 10mm on Middle Channel in GPRS850 2Sltos mode with Antenna1

Date: 2023.06.30

Communication System Band: GPRS850; Frequency: 836.6 MHz;Duty Cycle: 1:4.1

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.905 S/m; ε_r = 41.596; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- 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) = 0.384 W/kg

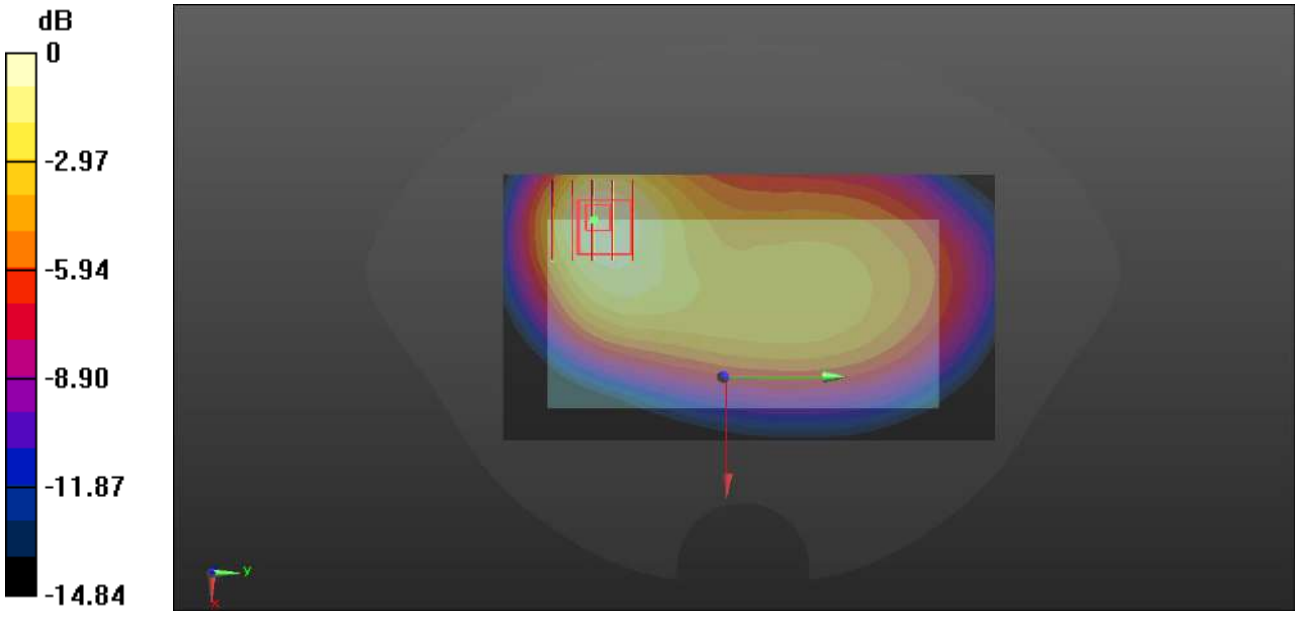
Ch190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.37 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.534 W/kg

SAR(1 g) = 0.342 W/kg; SAR(10 g) = 0.222 W/kg

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



0 dB = 0.367 W/kg

Meas.4 Right Head with Cheek on High Channel GPRS1900 2Slots with Antenna 1

Date: 2023.07.06

Communication System Band: PCS1900; Frequency: 1909.8 MHz;Duty Cycle: 1:4.1

Medium parameters used (interpolated): f = 1909.8 MHz; σ = 1.358 S/m; ε_r = 39.798; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.4℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch810/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

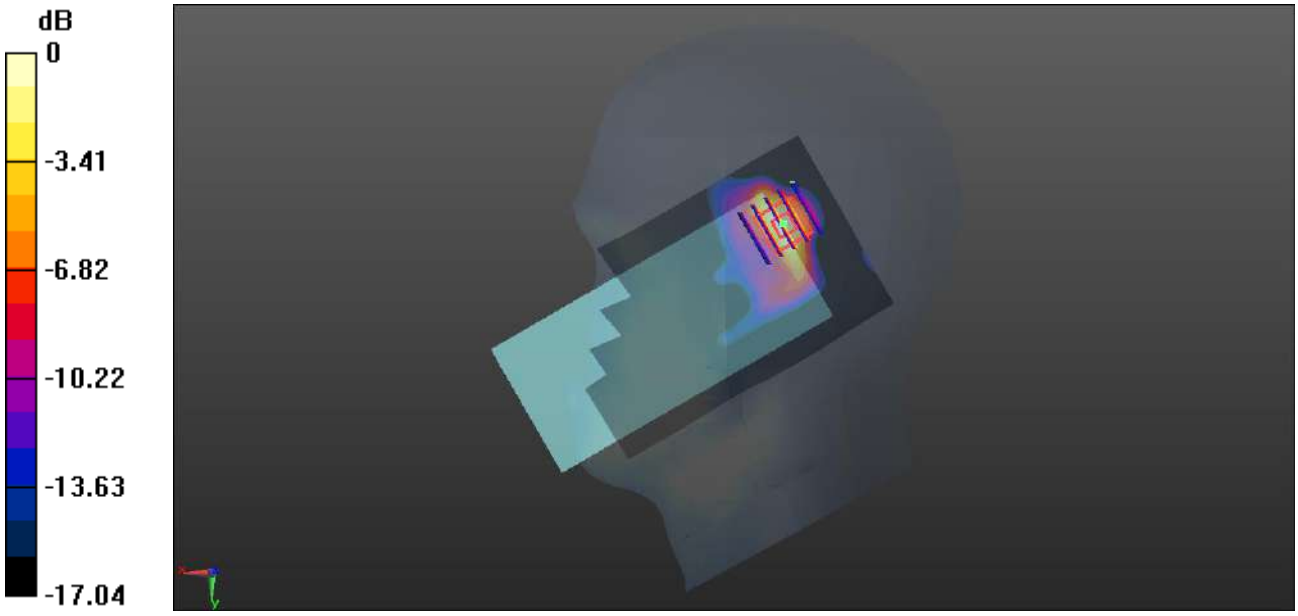
Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.11 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.00 W/kg

SAR(1 g) = 0.994 W/kg; SAR(10 g) = 0.449 W/kg

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



0 dB = 1.20 W/kg

Meas.5 Body Plane with Bask Side 15mm on Middle Channel in GPRS1900 2Sltos mode with Antenna1

Date: 2023.07.06

Communication System Band: PCS1900; Frequency: 1880 MHz;Duty Cycle: 1:4.1

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.354 S/m; ε_r = 40.118; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch661/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

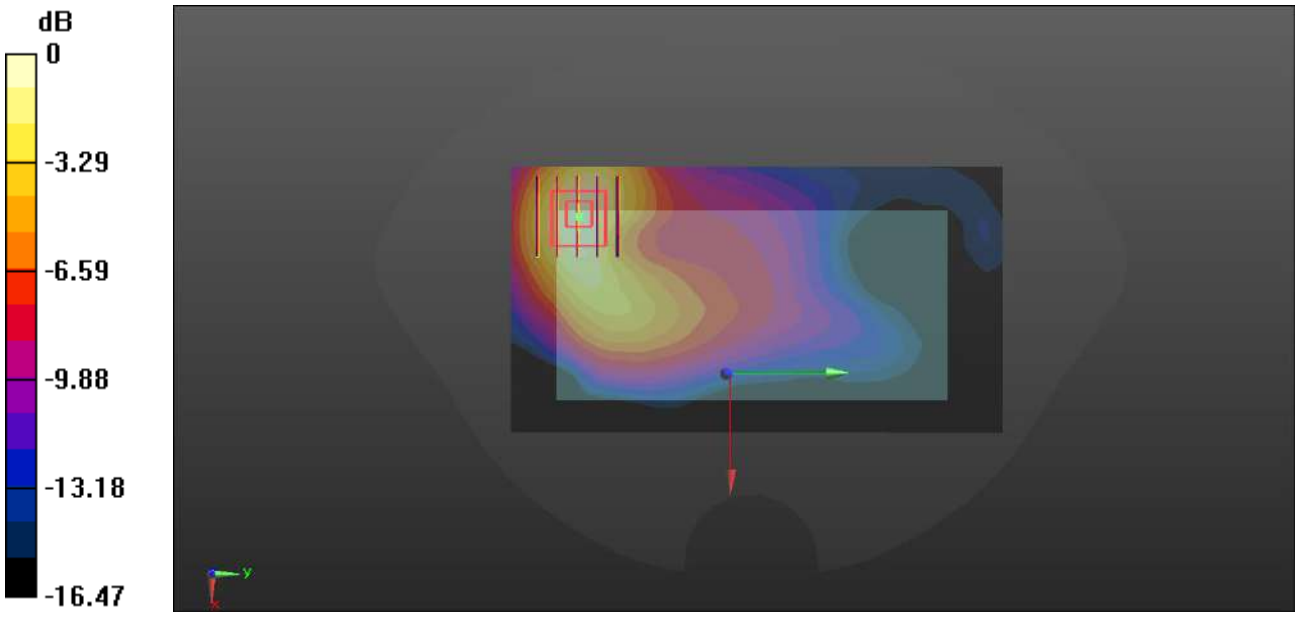
Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.908 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.234 W/kg

SAR(1 g) = 0.142 W/kg; SAR(10 g) = 0.082 W/kg

Maximum value of SAR (measured) = 0.156 W/kg



0 dB = 0.156 W/kg

Meas.6 Body Plane with Bask Side 15mm on Middle Channel in GPRS1900 2Sltos mode with Antenna0

Date: 2023.07.06

Communication System Band: PCS1900; Frequency: 1880 MHz;Duty Cycle: 1:4.1

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.354 S/m; ε_r = 40.118; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch661/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

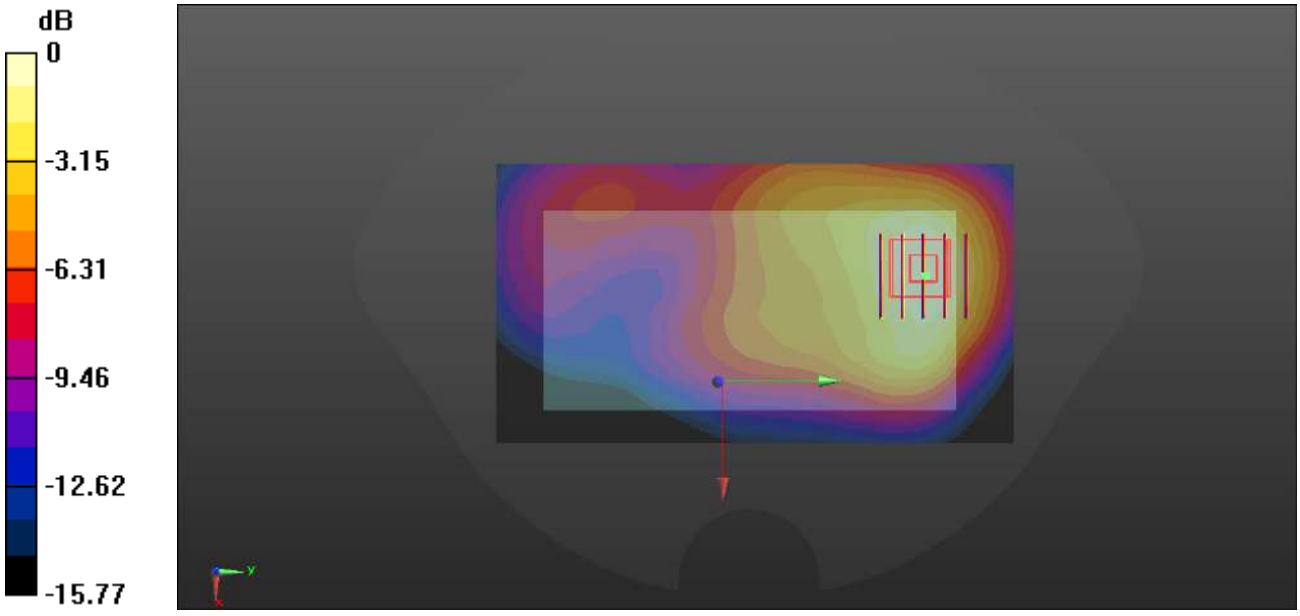
Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.442 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.401 W/kg

SAR(1 g) = 0.257 W/kg; SAR(10 g) = 0.160 W/kg

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



0 dB = 0.276 W/kg

Meas.7 Body Plane with Top Edge 10mm on Middle Channel in GPRS1900 2Sltos mode with Antenna1

Date: 2023.07.06

Communication System Band: PCS1900; Frequency: 1880 MHz;Duty Cycle: 1:4.1

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.354 S/m; ε_r = 40.118; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch661/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.566 W/kg

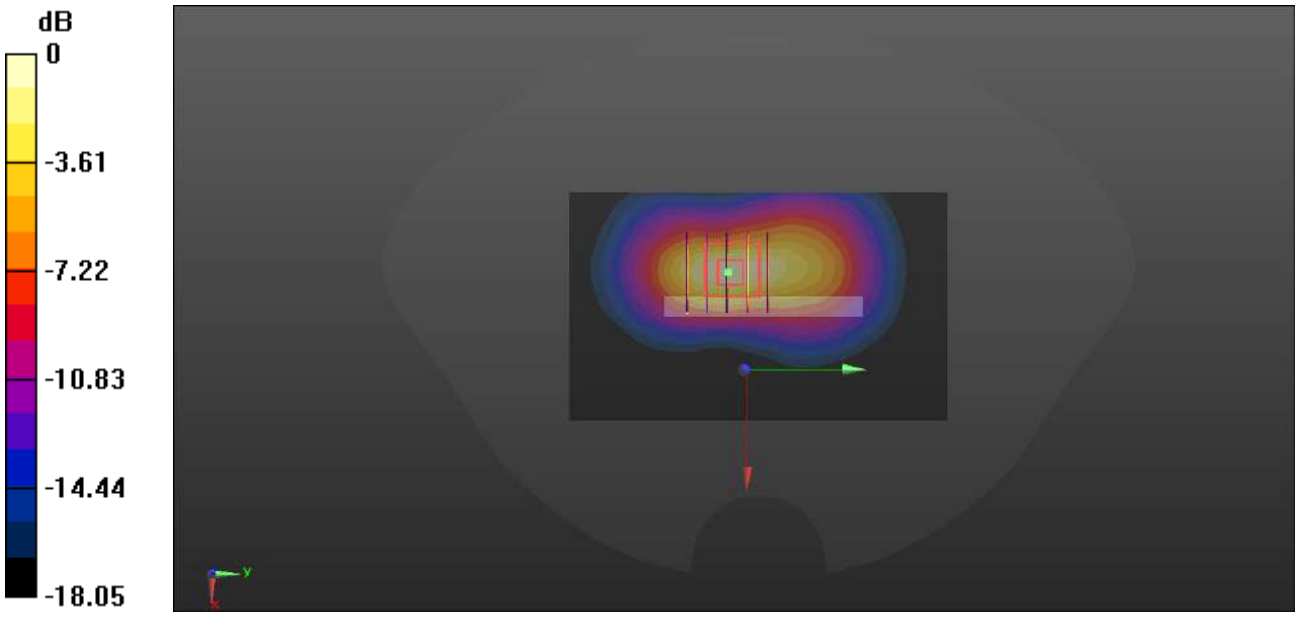
Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.102 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.919 W/kg

SAR(1 g) = 0.495 W/kg; SAR(10 g) = 0.248 W/kg

Maximum value of SAR (measured) = 0.568 W/kg



0 dB = 0.568 W/kg

Meas.8 Body Plane with Bottom Edge 10mm on Middle Channel in GPRS1900 2Sltos mode with Antenna0

Date: 2023.07.06

Communication System Band: PCS1900; Frequency: 1880 MHz;Duty Cycle: 1:4.1

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.354 S/m; ε_r = 40.118; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch661/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.714 W/kg

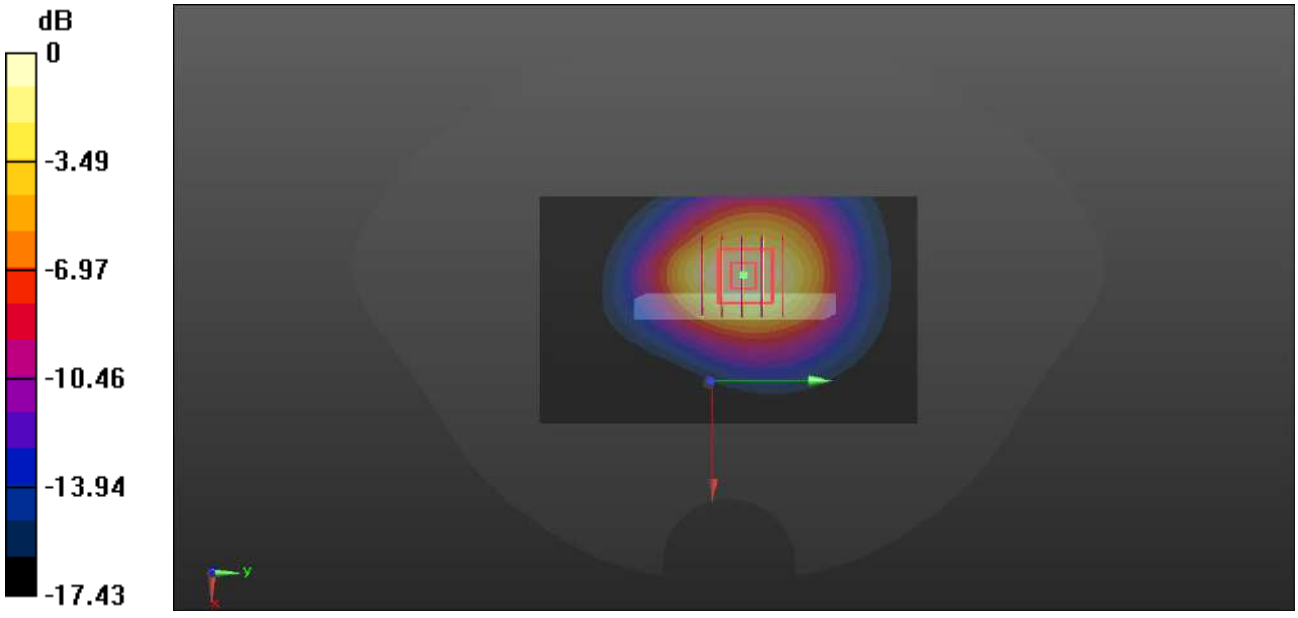
Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.58 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.610 W/kg; SAR(10 g) = 0.351 W/kg

Maximum value of SAR (measured) = 0.669 W/kg



0 dB = 0.669 W/kg

Meas.9 Right Head with Tilt on Low Channel WCDMA B2 with Antenna 1

Date: 2023.07.07

Communication System Band: Band 2; Frequency: 1852.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.418 S/m; ε_r = 39.96; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.3℃ Liquid Temperature:21.6℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9262/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.14 W/kg

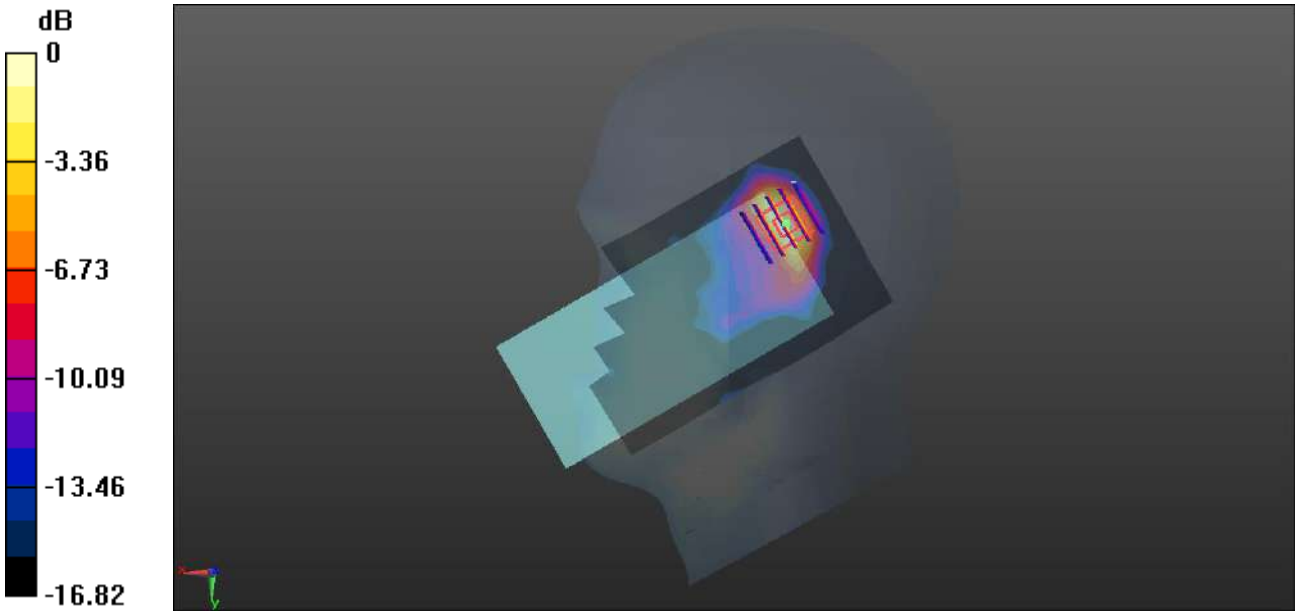
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.95 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.81 W/kg

SAR(1 g) = 0.919 W/kg; SAR(10 g) = 0.421 W/kg

Maximum value of SAR (measured) = 1.13 W/kg



0 dB = 1.13 W/kg

Meas.10 Body Plane with Bask Side 15mm on Low Channel in WCDMA Band2 mode with Antenna1

Date: 2023.07.07

Communication System Band: Band 2; Frequency: 1852.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.418 S/m; ε_r = 39.96; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.3℃ Liquid Temperature:21.6℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9262/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.133 W/kg

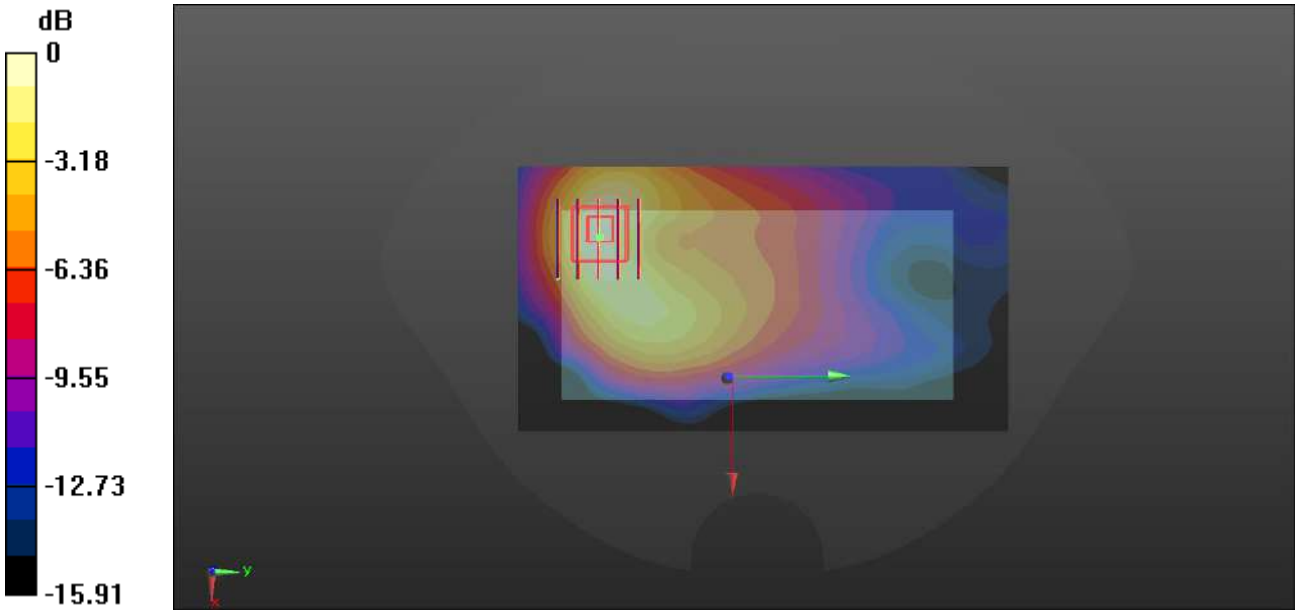
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.714 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.199 W/kg

SAR(1 g) = 0.123 W/kg; SAR(10 g) = 0.072 W/kg

Maximum value of SAR (measured) = 0.134 W/kg



0 dB = 0.134 W/kg

Meas.11 Body Plane with Bask Side 15mm on Middle Channel in WCDMA Band2 mode with Antenna0

Date: 2023.07.07

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

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.419 S/m; ε_r = 39.72; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.3℃ Liquid Temperature:21.6℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- 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) = 0.335 W/kg

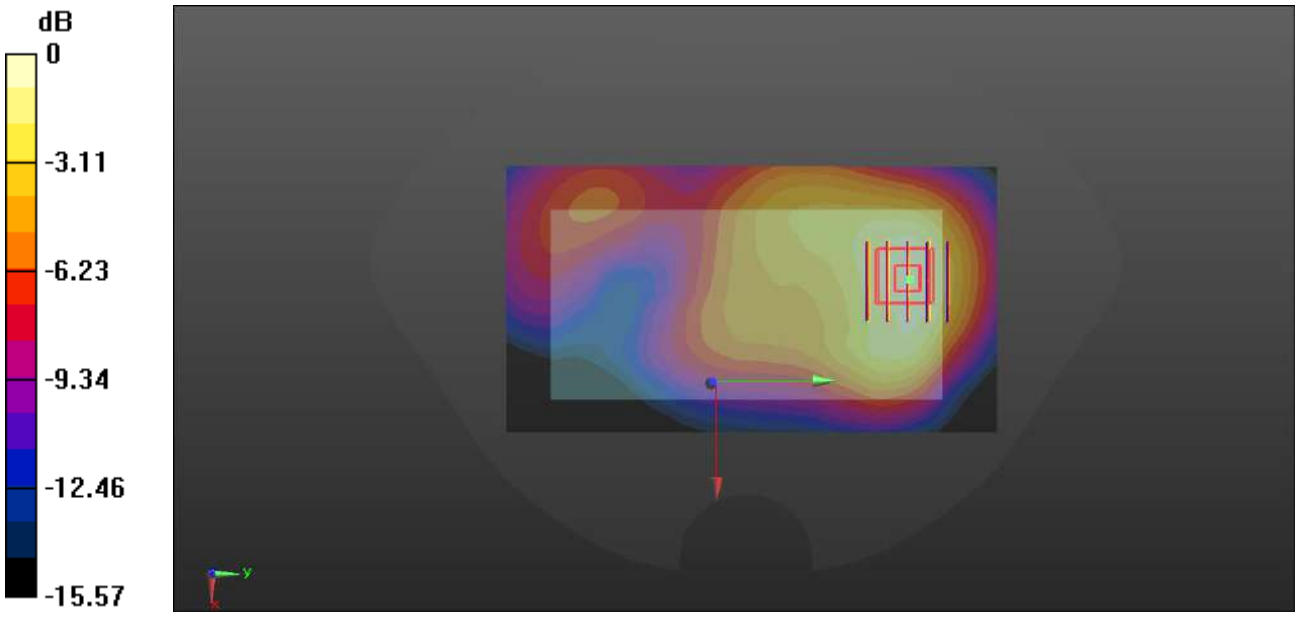
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.043 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.482 W/kg

SAR(1 g) = 0.307 W/kg; SAR(10 g) = 0.191 W/kg

Maximum value of SAR (measured) = 0.332 W/kg



0 dB = 0.332 W/kg

Meas.12 Body Plane with Top Edge 10mm on Low Channel in WCDMA Band2 mode with Antenna1

Date: 2023.07.07

Communication System Band: Band 2; Frequency: 1852.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.418 S/m; ε_r = 39.96; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.3℃ Liquid Temperature:21.6℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9262/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

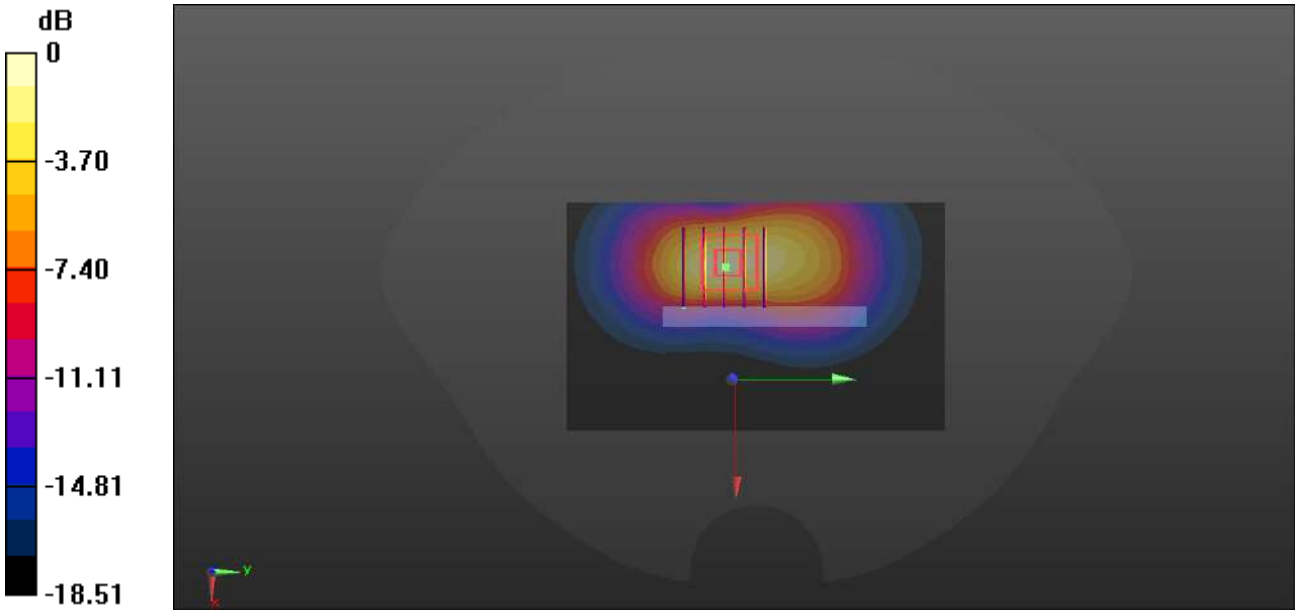
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.910 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.785 W/kg

SAR(1 g) = 0.427 W/kg; SAR(10 g) = 0.215 W/kg

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



0 dB = 0.488 W/kg

Meas.13 Body Plane with Bottom 10mm on Middle Channel in WCDMA Band2 mode with Antenna0

Date: 2023.07.07

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

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.419 S/m; ε_r = 39.72; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.3℃ Liquid Temperature:21.6℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9400/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.876 W/kg

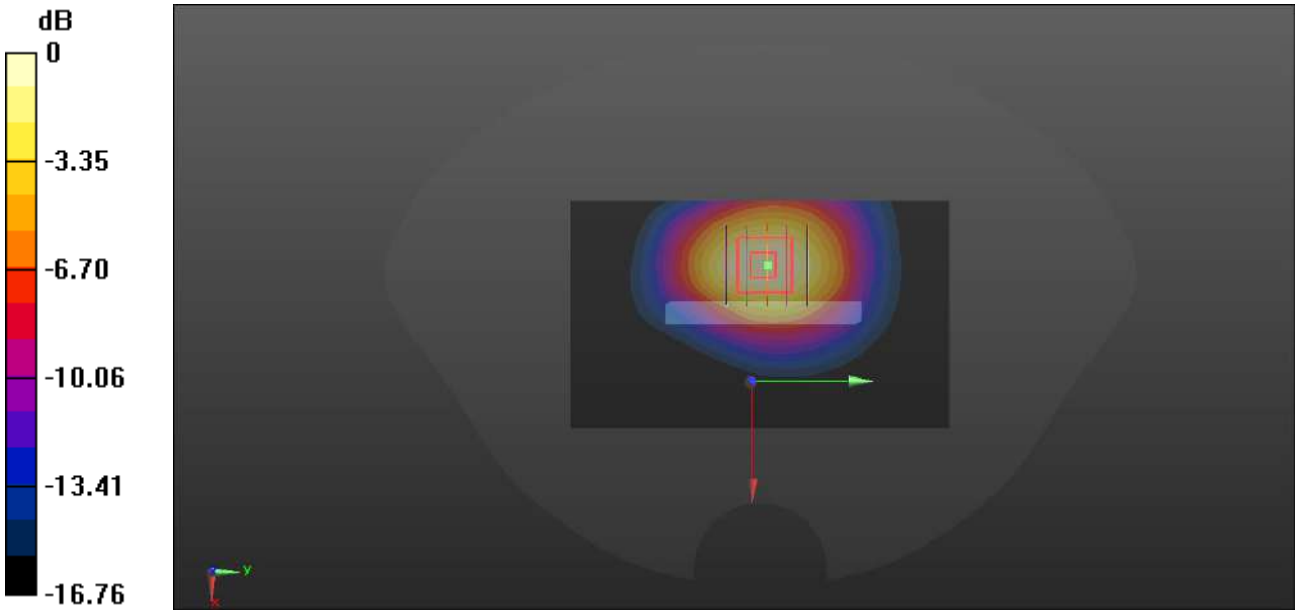
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.61 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.779 W/kg; SAR(10 g) = 0.447 W/kg

Maximum value of SAR (measured) = 0.852 W/kg



0 dB = 0.852 W/kg

Meas.14 Right Head with Tilt on High Channel WCMDMA B4 with Antenna 1

Date: 2023.07.04

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

Medium parameters used (interpolated): f = 1752.6 MHz; σ = 1.407 S/m; ε_r = 39.423; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.7℃ Liquid Temperature:21.9℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.65, 8.65, 8.65); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- 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) = 1.05 W/kg

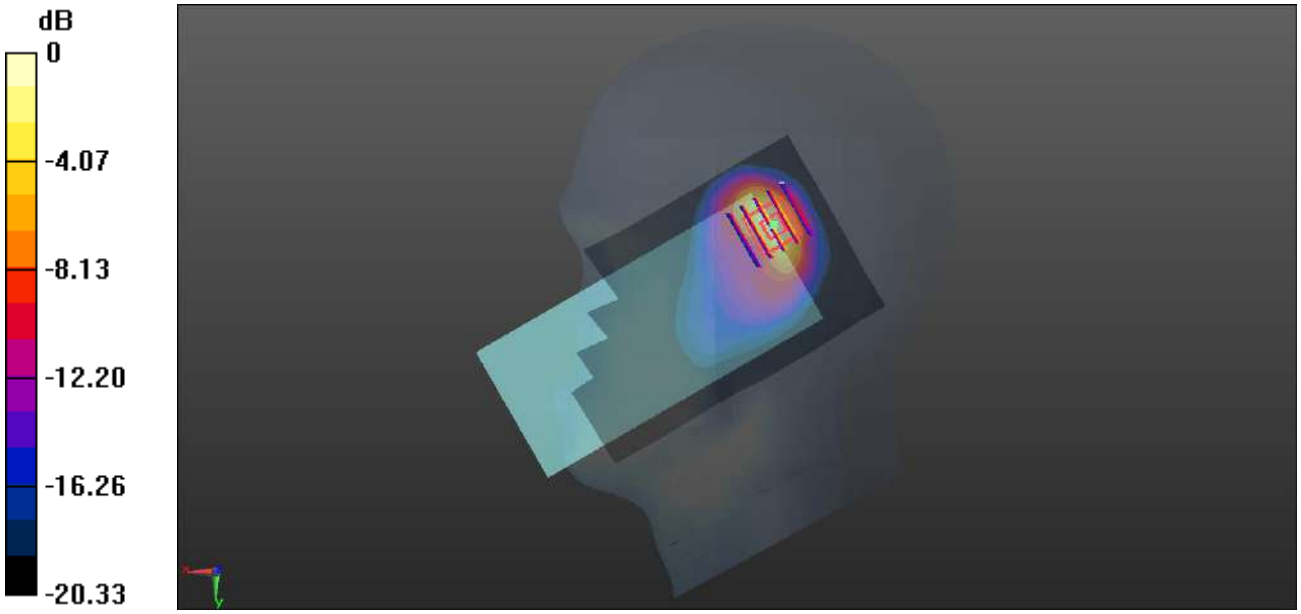
Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.66 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 0.872 W/kg; SAR(10 g) = 0.384 W/kg

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



0 dB = 1.07 W/kg

Meas.15 Body Plane with Bask Side 15mm on Low Channel in WCDMA Band4 mode with Antenna0

Date: 2023.07.04

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

Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.375 S/m; ε_r = 39.94; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7℃ Liquid Temperature:21.9℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.65, 8.65, 8.65); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- 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) = 0.384 W/kg

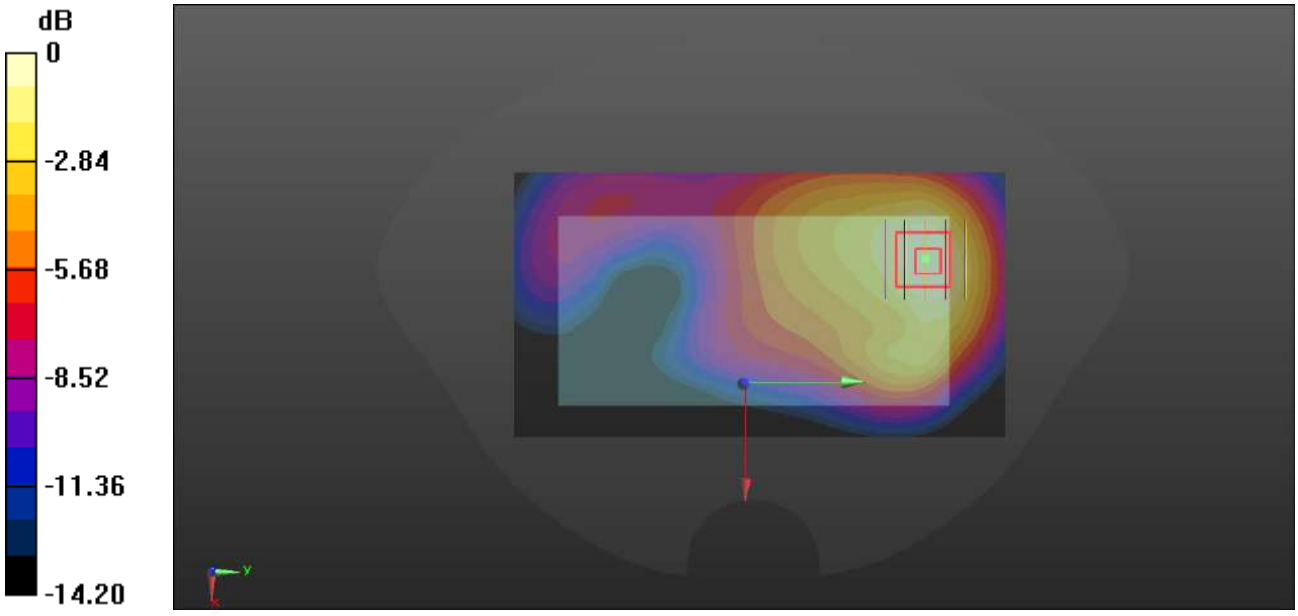
Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.325 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.523 W/kg

SAR(1 g) = 0.350 W/kg; SAR(10 g) = 0.222 W/kg

Maximum value of SAR (measured) = 0.378 W/kg



0 dB = 0.378 W/kg

Meas.16 Body Plane with Top Edge 10mm on Low Channel in WCDMA Band4 mode with Antenna1

Date: 2023.07.04

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

Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.375 S/m; ε_r = 39.94; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7℃ Liquid Temperature:21.9℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.65, 8.65, 8.65); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1312 2/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.405 W/kg

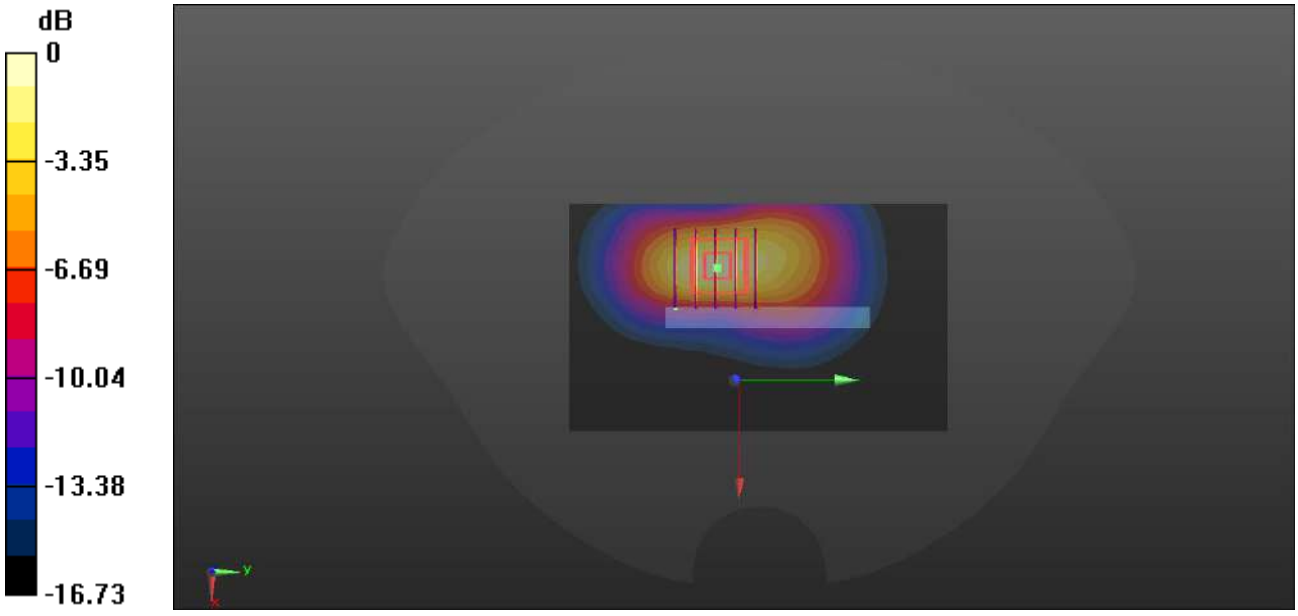
Ch1312 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.275 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.677 W/kg

SAR(1 g) = 0.383 W/kg; SAR(10 g) = 0.198 W/kg

Maximum value of SAR (measured) = 0.437 W/kg



0 dB = 0.437 W/kg

Meas.17 Body Plane with Bottom Edge 10mm on Low Channel in WCDMA Band4 mode with Antenna1

Date: 2023.07.04

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

Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.375 S/m; ε_r = 39.94; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7℃ Liquid Temperature:21.9℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.65, 8.65, 8.65); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1312/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.03 W/kg

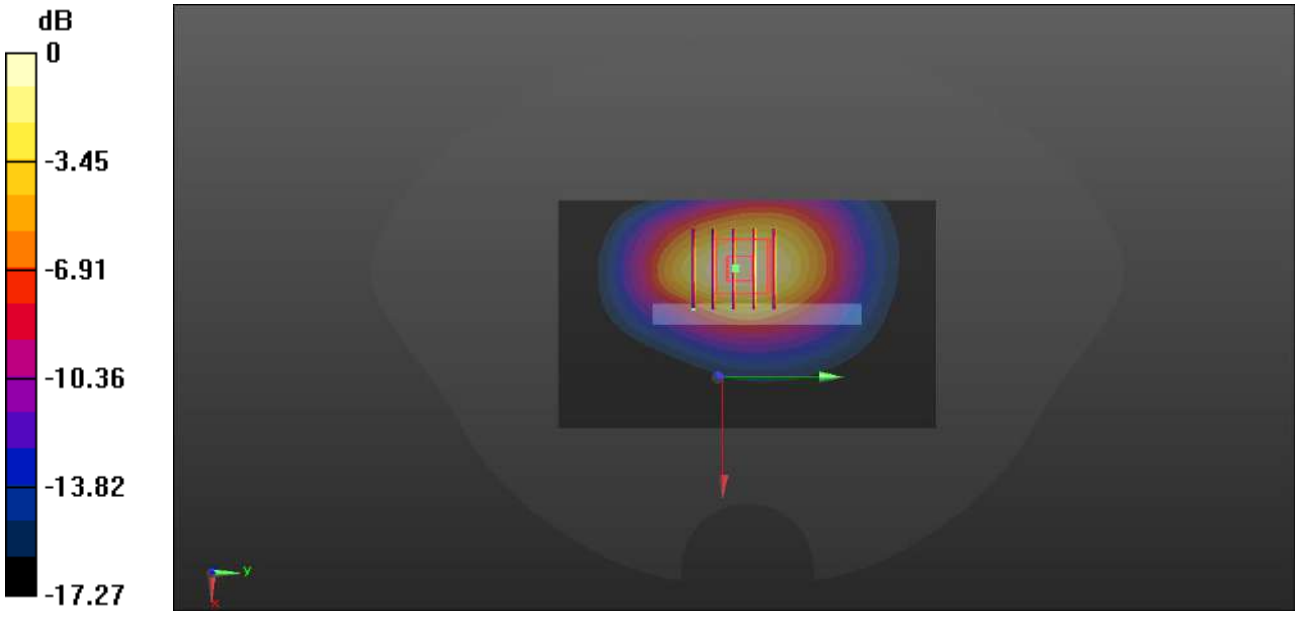
Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.37 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.919 W/kg; SAR(10 g) = 0.526 W/kg

Maximum value of SAR (measured) = 1.02 W/kg



0 dB = 1.02 W/kg

Meas.18 Body Plane with Bottom Edge 0mm on Low Channel in WCDMA Band4 mode with Antenna1

Date: 2023.07.04

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

Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.375 S/m; ε_r = 39.94; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7℃ Liquid Temperature:21.9℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.65, 8.65, 8.65); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1312/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 5.75 W/kg

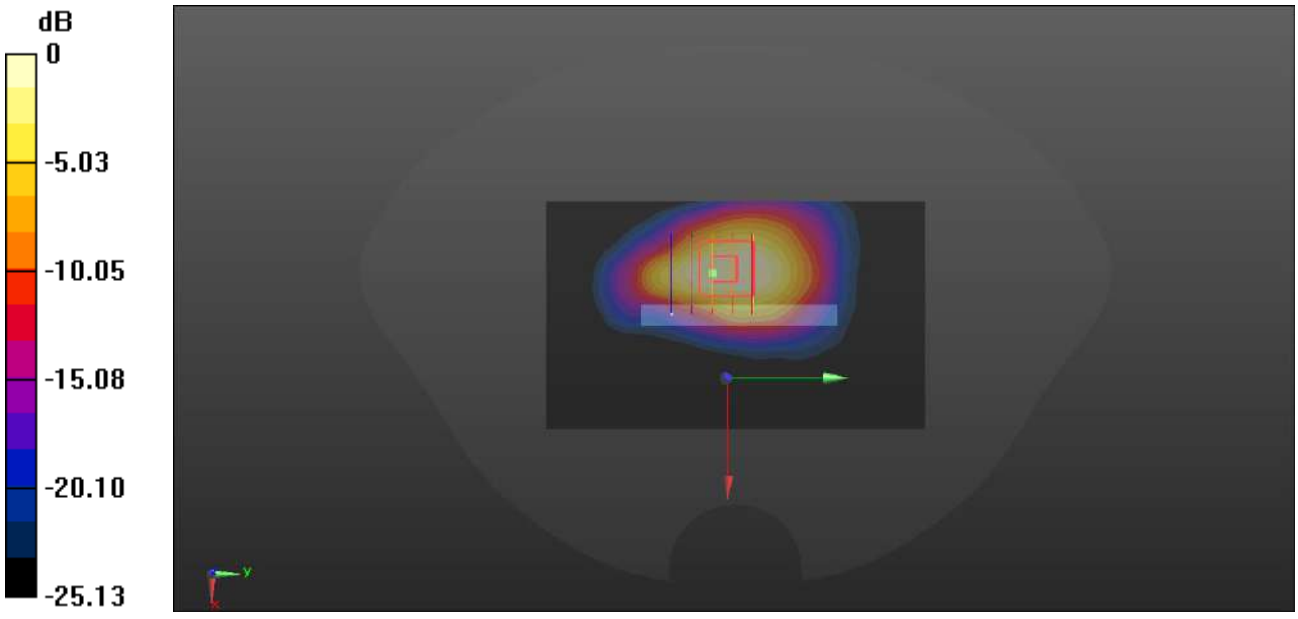
Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.35 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 9.74 W/kg

SAR(1 g) = 4.46 W/kg; SAR(10 g) = 2.17 W/kg

Maximum value of SAR (measured) = 4.94 W/kg



0 dB = 4.94 W/kg

Meas.19 Right Head with Cheek on Low Channel in WCDMA Band5 mode with Antenna 1

Date: 2023.07.01

Communication System Band: Band 5; Frequency: 826.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.871 S/m; ε_r = 42.128; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.5℃ Liquid Temperature:21.2℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch4132/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.671 W/kg

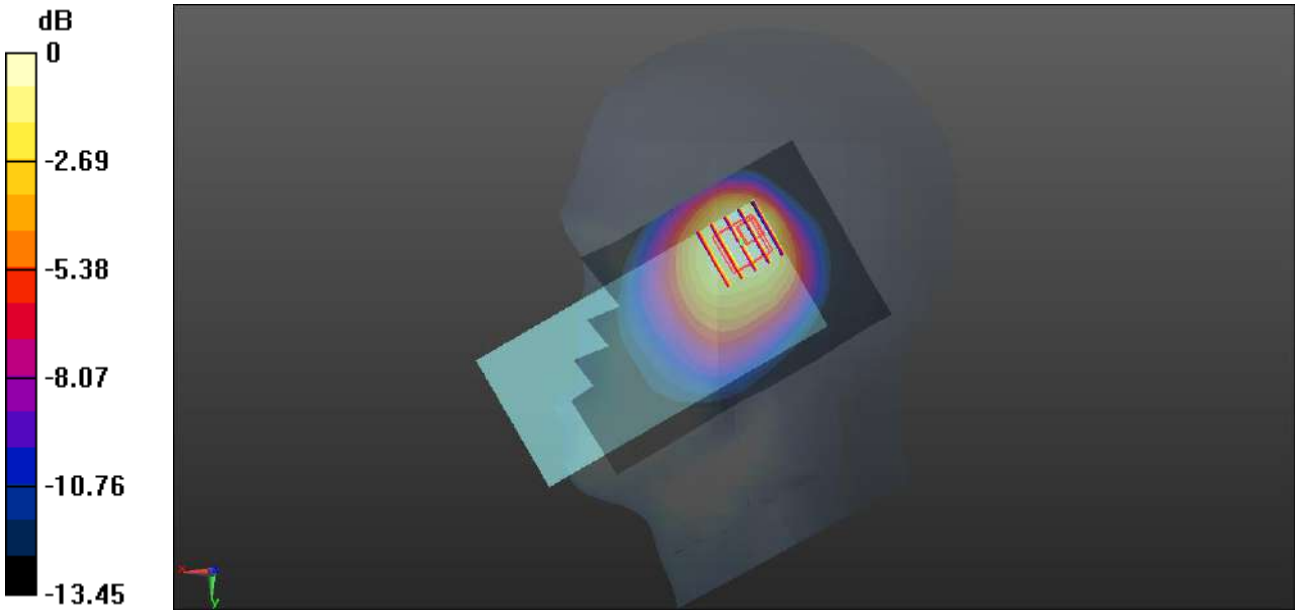
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.23 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.601 W/kg; SAR(10 g) = 0.385 W/kg

Maximum value of SAR (measured) = 0.631 W/kg



0 dB = 0.631 W/kg

Meas.20 Body Plane with Bask Side 15mm on Middle Channel in WCDMA Band5 mode with Antenna 0

Date: 2023.07.01

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

Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.876 S/m; ε_r = 41.708; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.2℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- 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) = 0.181 W/kg

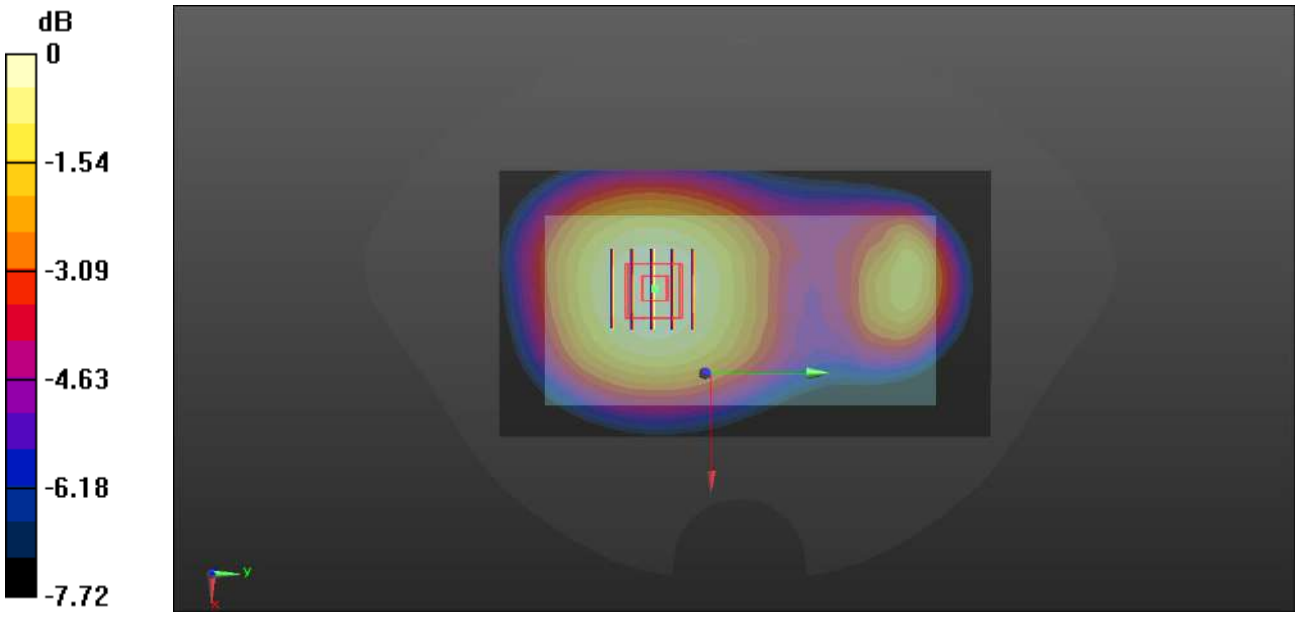
Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.03 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.214 W/kg

SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.133 W/kg

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



0 dB = 0.182 W/kg

Meas.21 Body Plane with Bask Side 10mm on Middle Channel in WCDMA Band5 mode with Antenna0

Date: 2023.07.01

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

Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.876 S/m; ε_r = 41.708; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.2℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- 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) = 0.276 W/kg

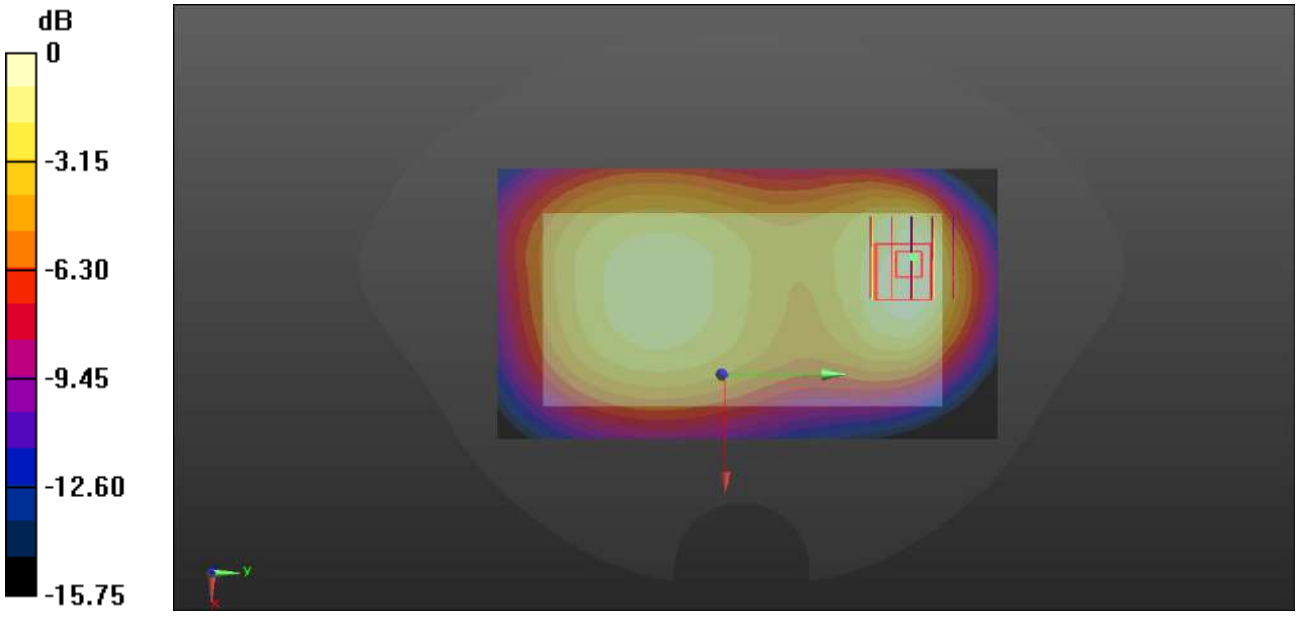
Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.54 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.433 W/kg

SAR(1 g) = 0.250 W/kg; SAR(10 g) = 0.156 W/kg

Maximum value of SAR (measured) = 0.272 W/kg



0 dB = 0.272 W/kg

Meas.22 Right Head with Tilt on Low Channel in LTE Band2 mode with Antenna 1

Date: 2023.07.08

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

Medium parameters used (interpolated): f = 1860 MHz; σ = 1.425 S/m; ε_r = 39.88; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.7℃ Liquid Temperature:21.2℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- 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) = 1.11 W/kg

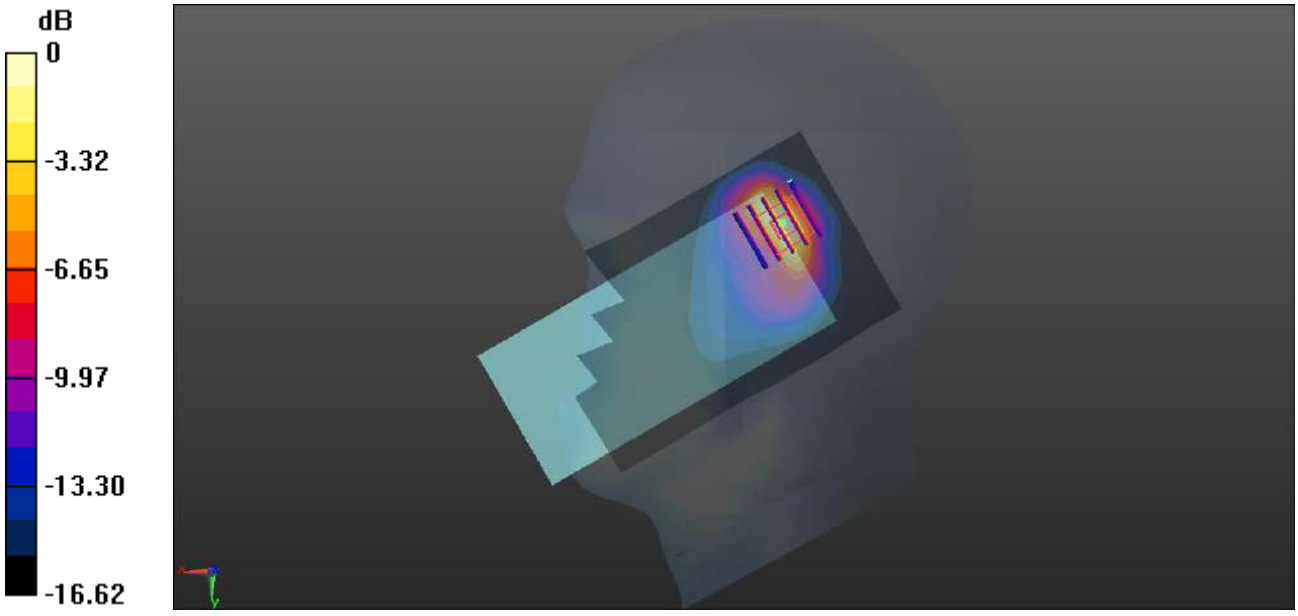
Ch18700/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.81 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.85 W/kg

SAR(1 g) = 0.932 W/kg; SAR(10 g) = 0.424 W/kg

Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.12 W/kg

Meas.23 Body Plane with Bask Side 15mm on High Channel in LTE Band2 mode with Antenna 0

Date: 2023.07.08

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

Medium parameters used (interpolated): f = 1900 MHz; σ = 1.431 S/m; ε_r = 39.68; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7℃ Liquid Temperature:21.2℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch19100/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.326 W/kg

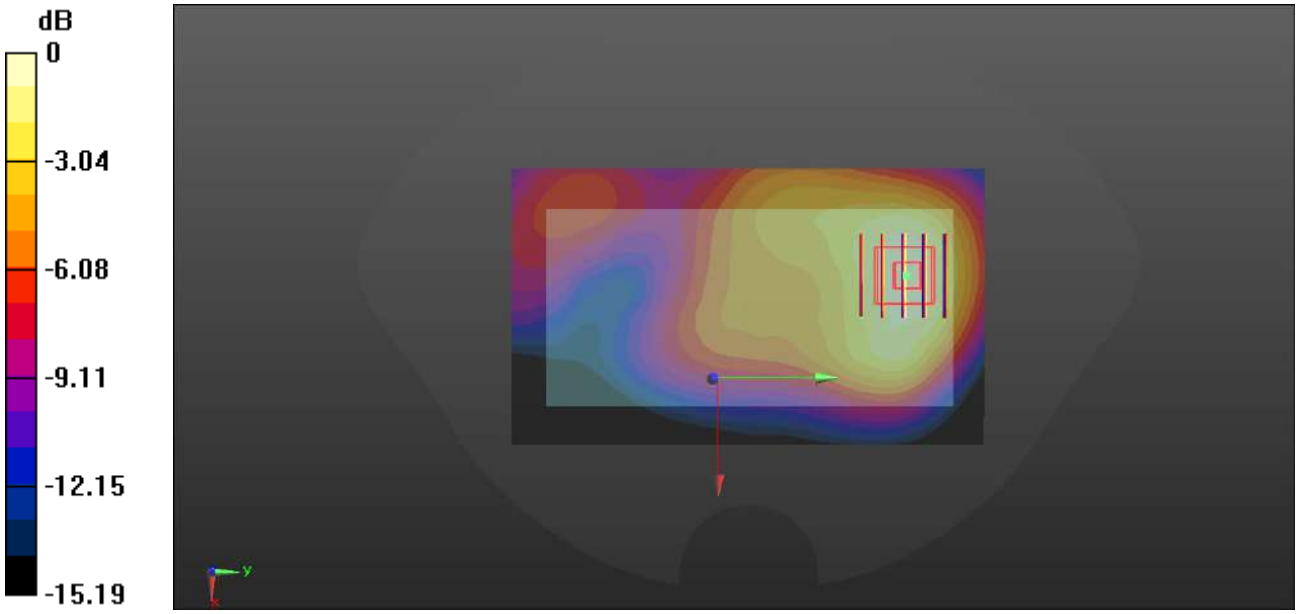
Ch19100/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.006 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.478 W/kg

SAR(1 g) = 0.305 W/kg; SAR(10 g) = 0.189 W/kg

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



0 dB = 0.329 W/kg

Meas.24 Body Plane with Bottom Edge 10mm on Middle Channel in LTE Band2 mode with Antenna 0

Date: 2023.07.08

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

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.428 S/m; ε_r = 39.76; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7℃ Liquid Temperature:21.2℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch18900/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

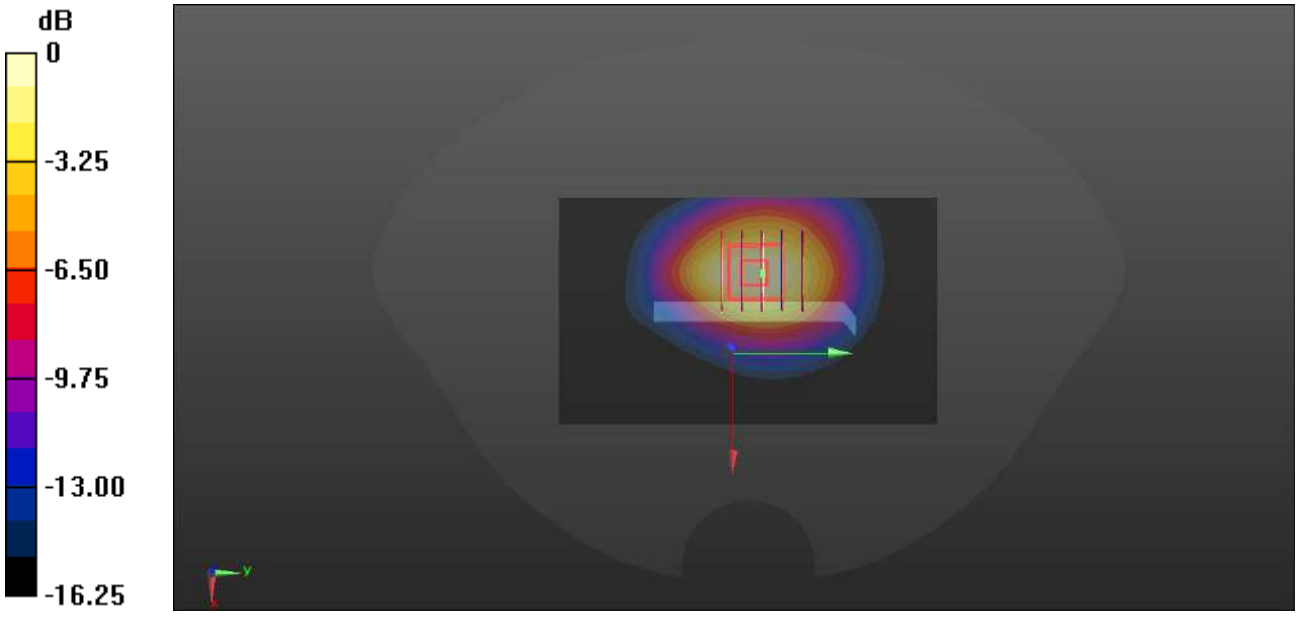
Ch18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.60 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.29 W/kg

SAR(1 g) = 0.775 W/kg; SAR(10 g) = 0.443 W/kg

Maximum value of SAR (measured) = 0.837 W/kg



0 dB = 0.837 W/kg

Meas.25 Right Head with Tilt on High Channel in LTE Band4 mode with Antenna 1

Date: 2023.07.05

Communication System Band: Band 4; Frequency: 1745 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1745 MHz; σ = 1.372 S/m; ε_r = 41.242; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.2℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.65, 8.65, 8.65); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20300/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.16 W/kg

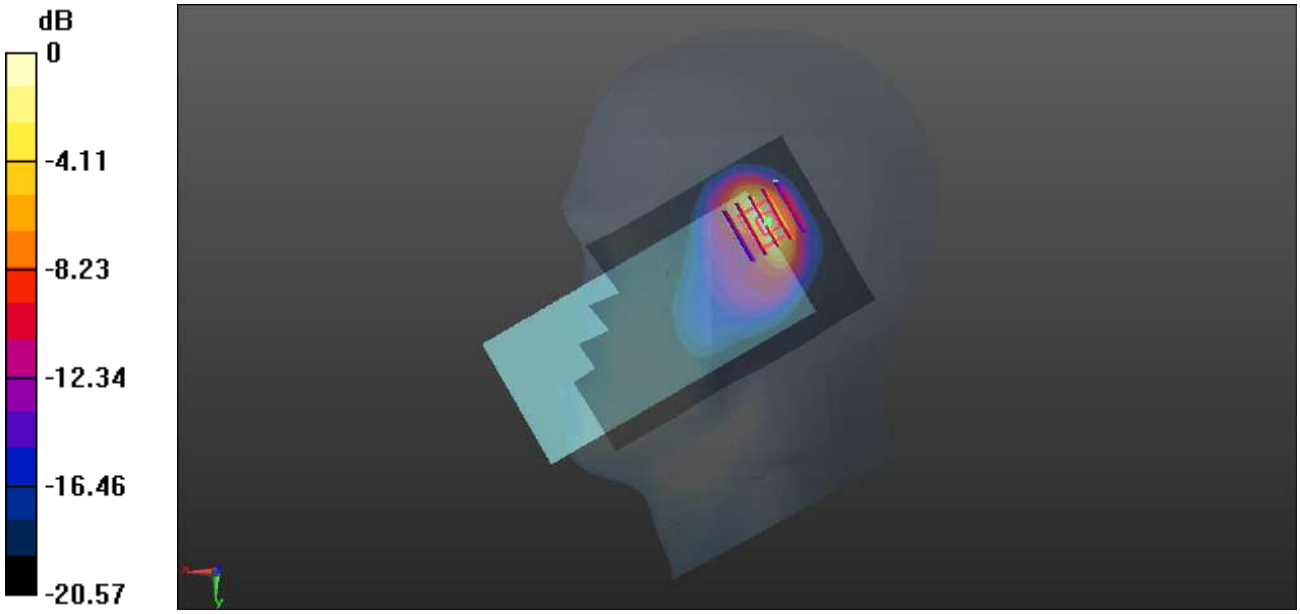
Ch20300/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.71 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 2.00 W/kg

SAR(1 g) = 0.955 W/kg; SAR(10 g) = 0.422 W/kg

Maximum value of SAR (measured) = 1.17 W/kg



0 dB = 1.17 W/kg

Meas.26 Body Plane with Bask Side 15mm on Middle Channel in LTE Band4 mode with Antenna0

Date: 2023.07.05

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

Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.364 S/m; ε_r = 41.449; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.65, 8.65, 8.65); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20175/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.359 W/kg

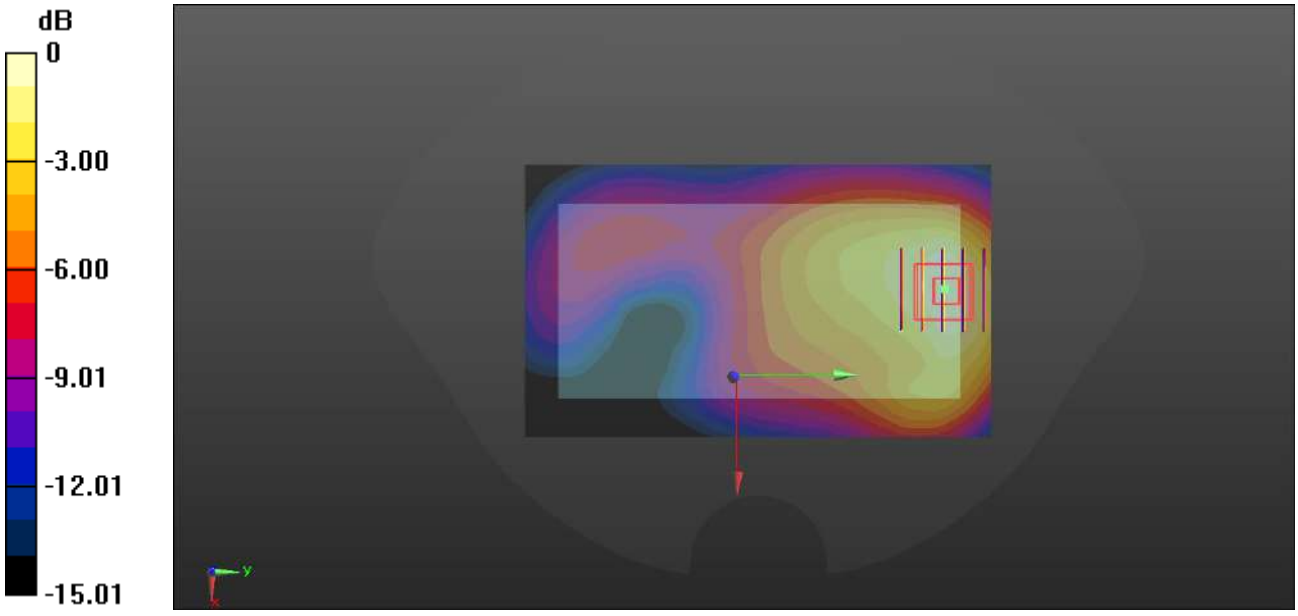
Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.086 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.494 W/kg

SAR(1 g) = 0.327 W/kg; SAR(10 g) = 0.206 W/kg

Maximum value of SAR (measured) = 0.353 W/kg



0 dB = 0.353 W/kg

Meas.27 Body Plane with Bottom Edge 10mm on High Channel in LTE Band4 mode with Antenna0

Date: 2023.07.05

Communication System Band: Band 4; Frequency: 1745 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1745 MHz; σ = 1.372 S/m; ε_r = 41.242; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.65, 8.65, 8.65); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20300/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.980 W/kg

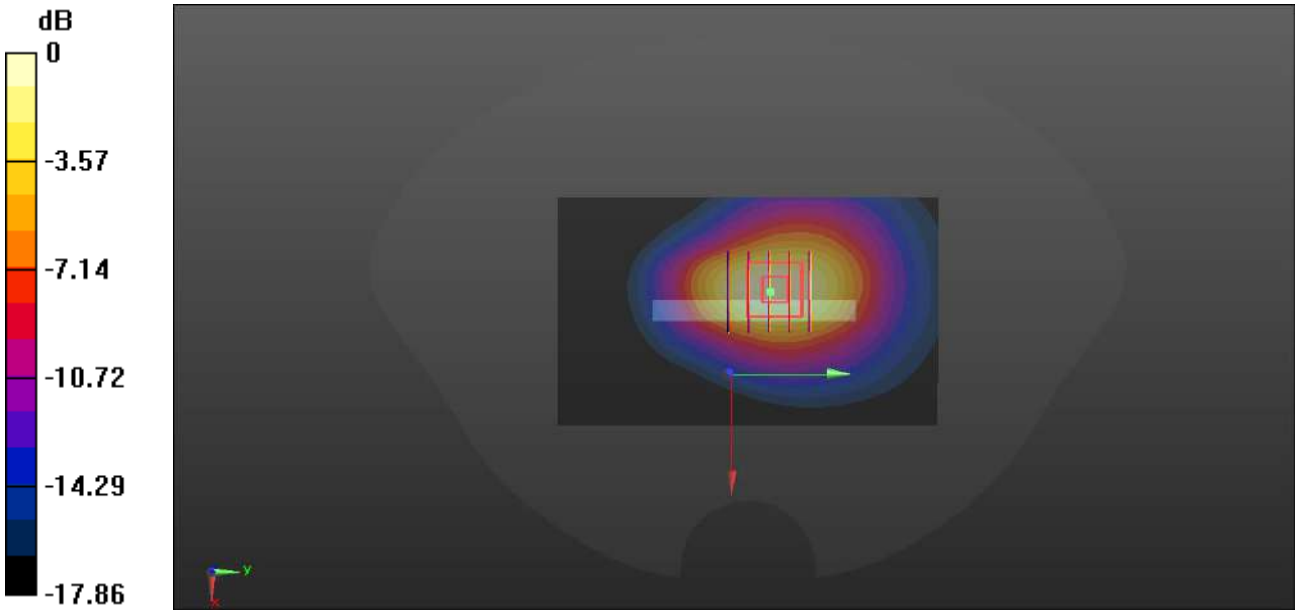
Ch20300/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.57 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.846 W/kg; SAR(10 g) = 0.483 W/kg

Maximum value of SAR (measured) = 0.933 W/kg



0 dB = 0.933 W/kg

Meas.28 Body Plane with Bottom Edge 0mm on High Channel in LTE Band4 mode with Antenna0

Date: 2023.07.05

Communication System Band: Band 4; Frequency: 1745 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1745 MHz; σ = 1.372 S/m; ε_r = 41.242; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.65, 8.65, 8.65); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20300/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.36 W/kg

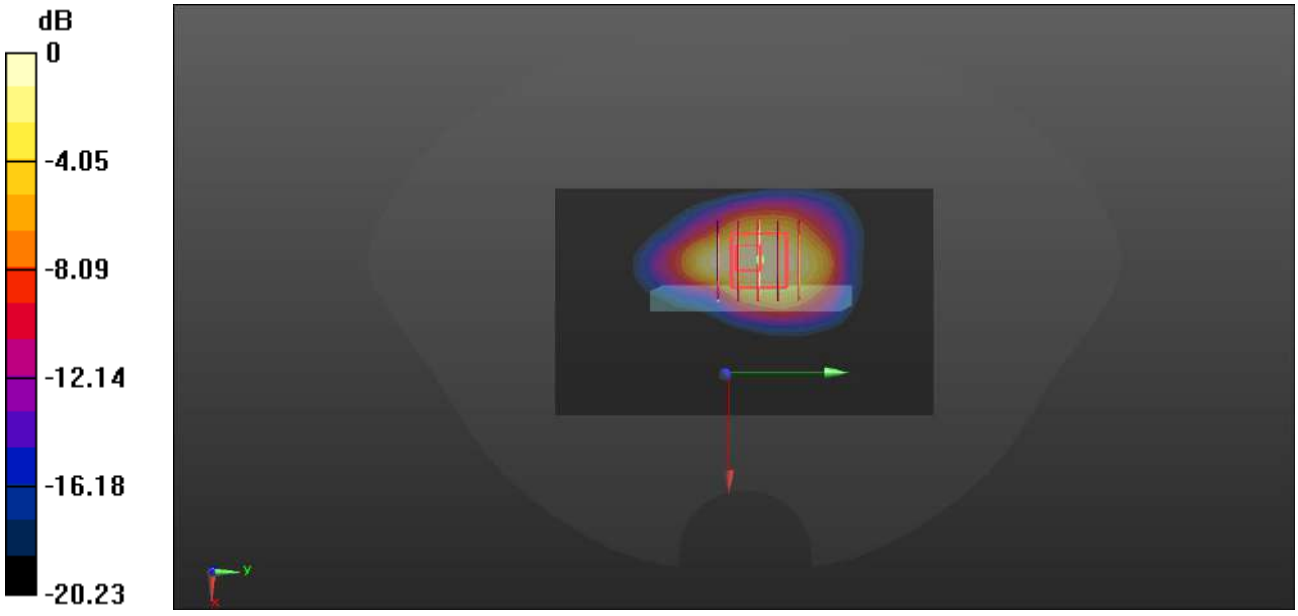
Ch20300/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.45 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 7.39 W/kg

SAR(1 g) = 3.43 W/kg; SAR(10 g) = 1.76 W/kg

Maximum value of SAR (measured) = 3.84 W/kg



0 dB = 3.84 W/kg

Meas.29 Right Head with Cheek on Middle Channel in LTE Band5 mode with Antenna 1

Date: 2023.07.02

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

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.913 S/m; ε_r = 42.186; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.7℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- 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) = 0.741 W/kg

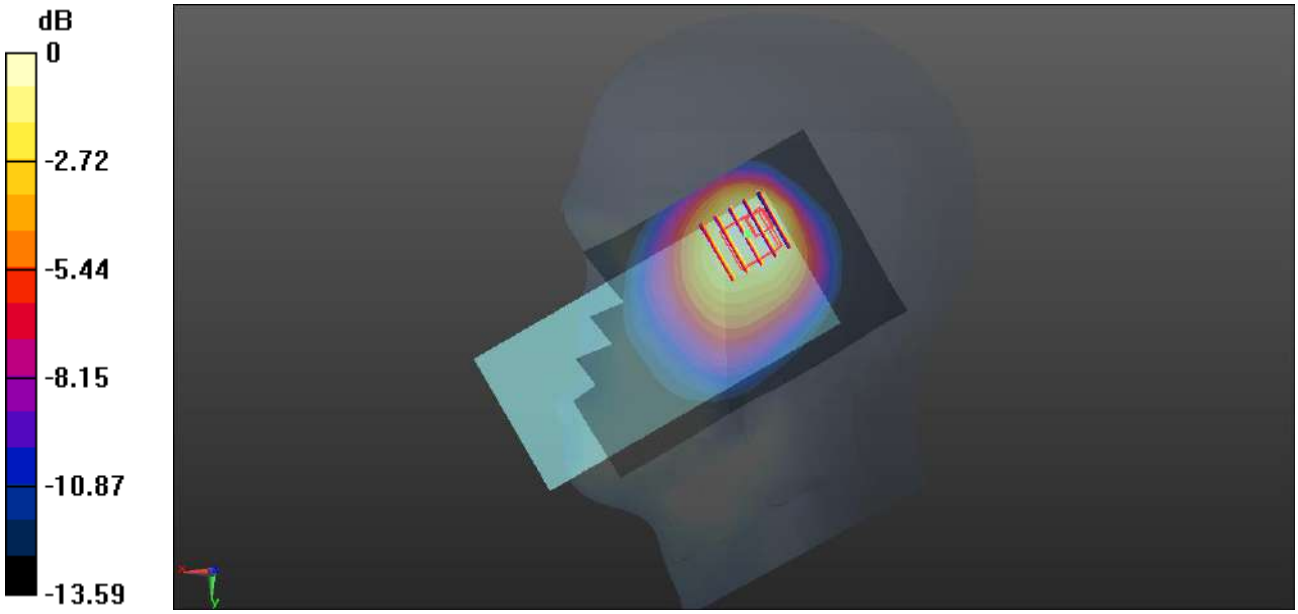
Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.09 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.648 W/kg; SAR(10 g) = 0.417 W/kg

Maximum value of SAR (measured) = 0.684 W/kg



0 dB = 0.684 W/kg

Meas.30 Body Plane with Bask Side 15mm on Middle Channel in LTE Band5 mode with Antenna 0

Date: 2023.07.02

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

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.913 S/m; ε_r = 42.186; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- 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) = 0.181 W/kg

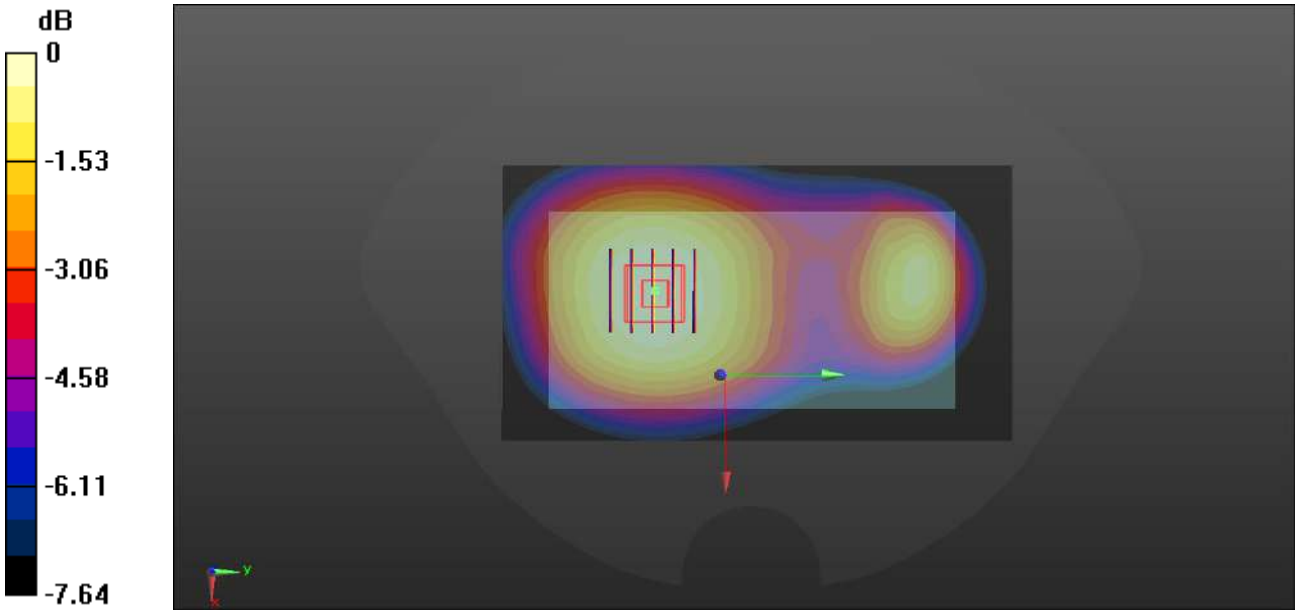
Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.60 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.213 W/kg

SAR(1 g) = 0.172 W/kg; SAR(10 g) = 0.132 W/kg

Maximum value of SAR (measured) = 0.180 W/kg



0 dB = 0.180 W/kg

Meas.31 Body Plane with Bask Side 10mm on Middle Channel in LTE Band5 mode with Antenna 0

Date: 2023.07.02

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

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.913 S/m; ε_r = 42.186; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- 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) = 0.297 W/kg

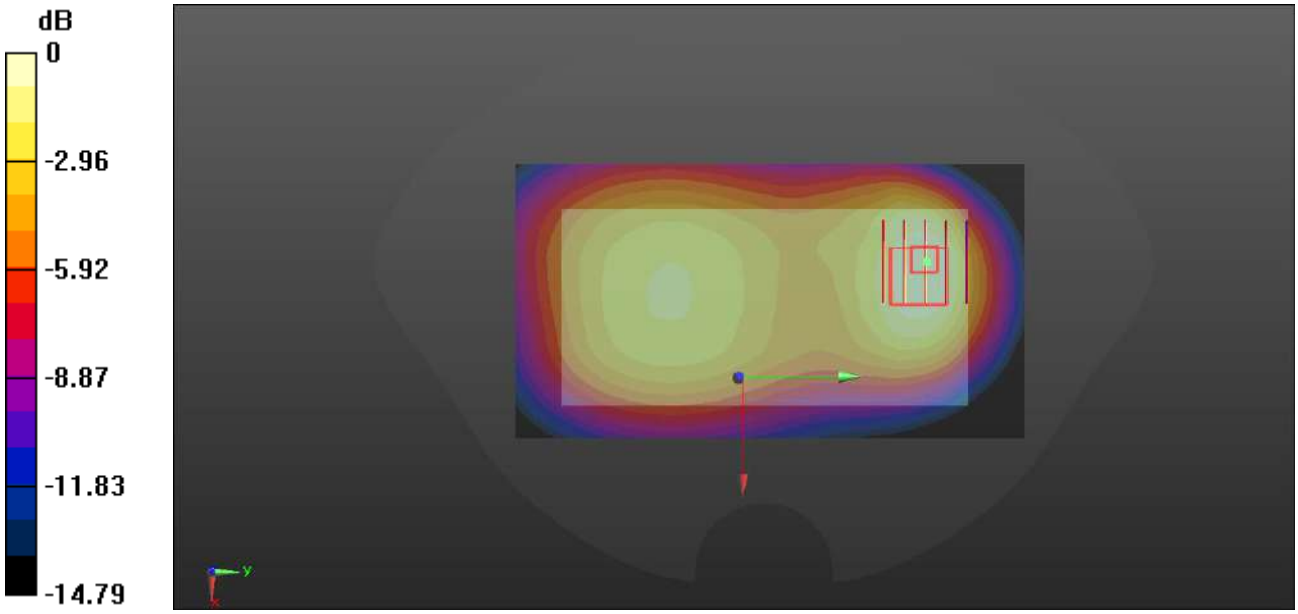
Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.75 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.468 W/kg

SAR(1 g) = 0.271 W/kg; SAR(10 g) = 0.170 W/kg

Maximum value of SAR (measured) = 0.297 W/kg



0 dB = 0.297 W/kg

Meas.32 Right Head with Tilt on Middle Channel in LTE Band7 mode with Antenna 1

Date: 2023.07.10

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

Medium parameters used (interpolated): f = 2535 MHz; σ = 1.828 S/m; ε_r = 39.36; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.4℃ Liquid Temperature:21.7℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.78, 7.78, 7.78); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- 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) = 0.772 W/kg

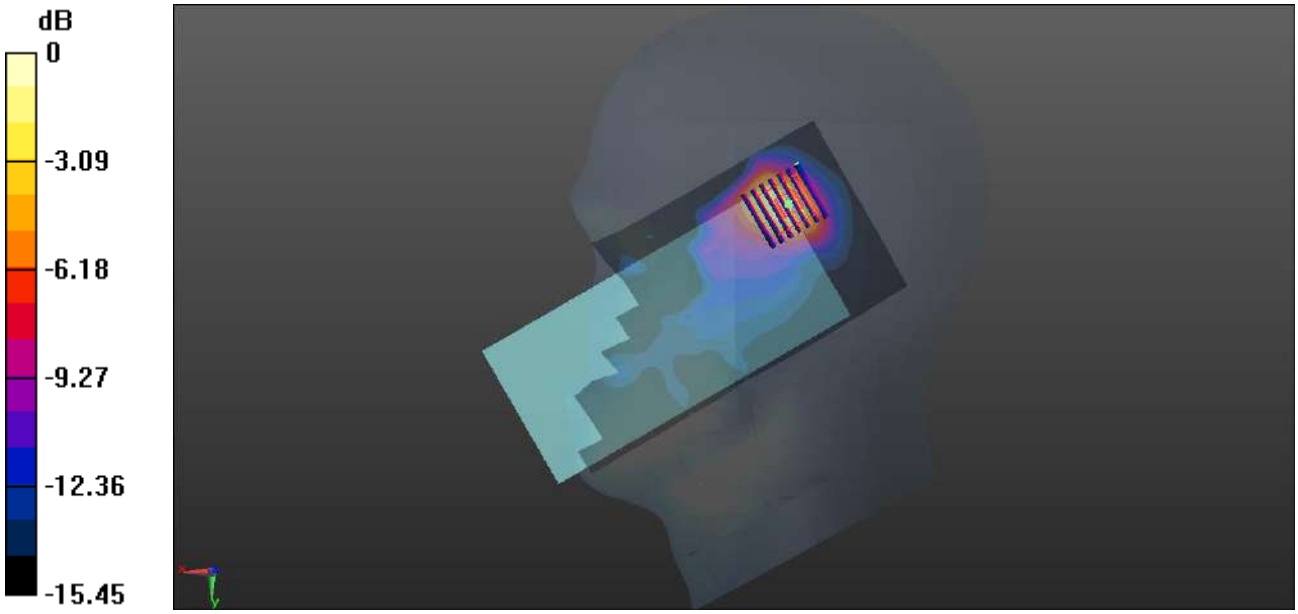
Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.004 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 0.697 W/kg; SAR(10 g) = 0.295 W/kg

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



0 dB = 0.840 W/kg

Meas.33 Body Plane with Bask Side 15mm on Middle Channel in LTE Band7 mode with Antenna1

Date: 2023.07.10

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

Medium parameters used (interpolated): f = 2535 MHz; σ = 1.828 S/m; ε_r = 39.36; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.7℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.78, 7.78, 7.78); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch21100/Area Scan (81x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.247 W/kg

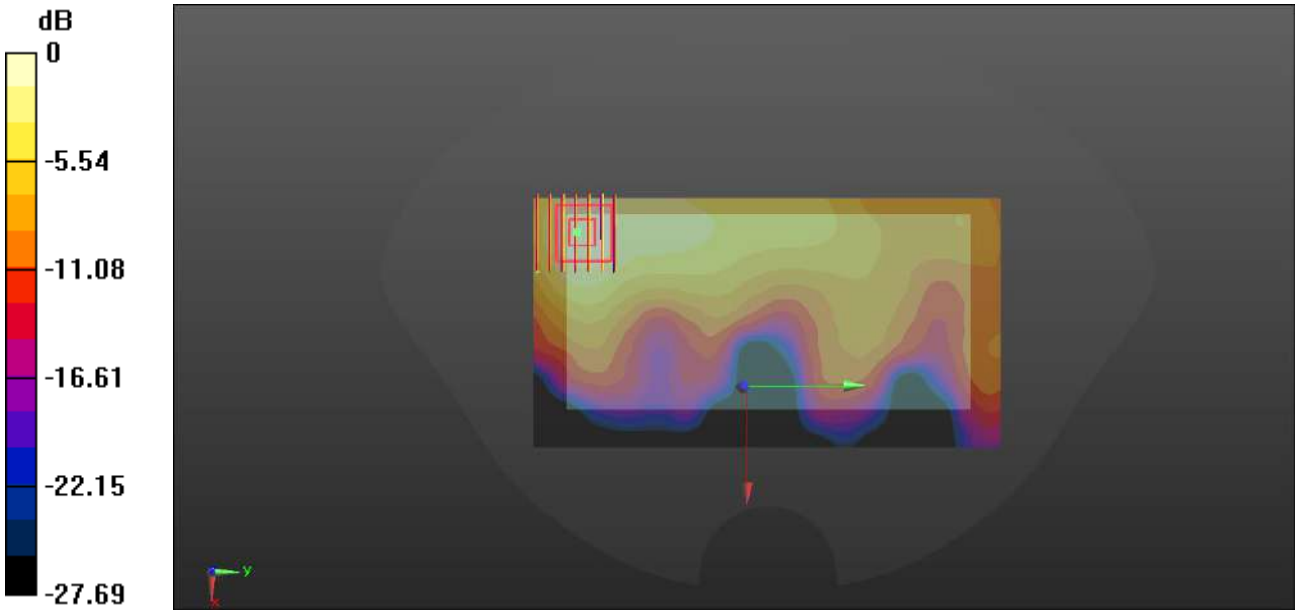
Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.656 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.442 W/kg

SAR(1 g) = 0.230 W/kg; SAR(10 g) = 0.117 W/kg

Maximum value of SAR (measured) = 0.255 W/kg



0 dB = 0.255 W/kg

Meas.34 Body Plane with Bask Side 15mm on Middle Channel in LTE Band7 mode with Antenna0

Date: 2023.07.10

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

Medium parameters used (interpolated): f = 2535 MHz; σ = 1.828 S/m; ε_r = 39.36; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.7℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.78, 7.78, 7.78); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch21100/Area Scan (81x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.241 W/kg

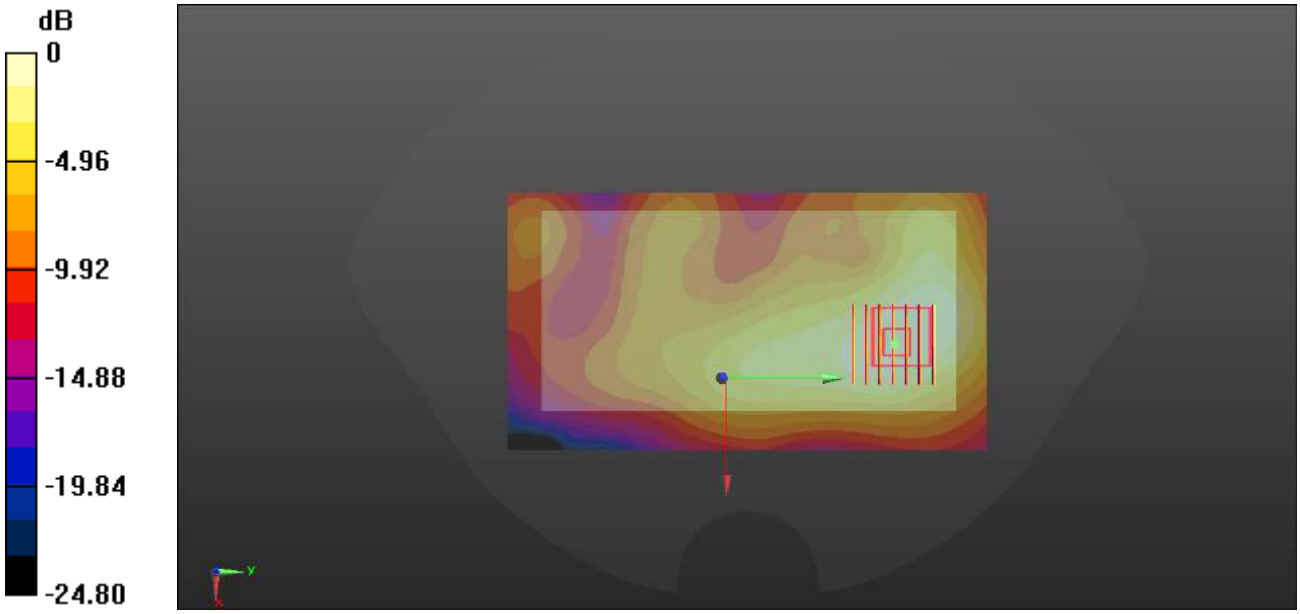
Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.352 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.393 W/kg

SAR(1 g) = 0.220 W/kg; SAR(10 g) = 0.124 W/kg

Maximum value of SAR (measured) = 0.240 W/kg



0 dB = 0.240 W/kg

Meas.35 Body Plane with Top Edge 10mm on Middle Channel in LTE Band7 mode with Antenna 1

Date: 2023.07.10

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

Medium parameters used (interpolated): f = 2535 MHz; σ = 1.828 S/m; ε_r = 39.36; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.7℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.78, 7.78, 7.78); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch21100/Area Scan (71x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.00 W/kg

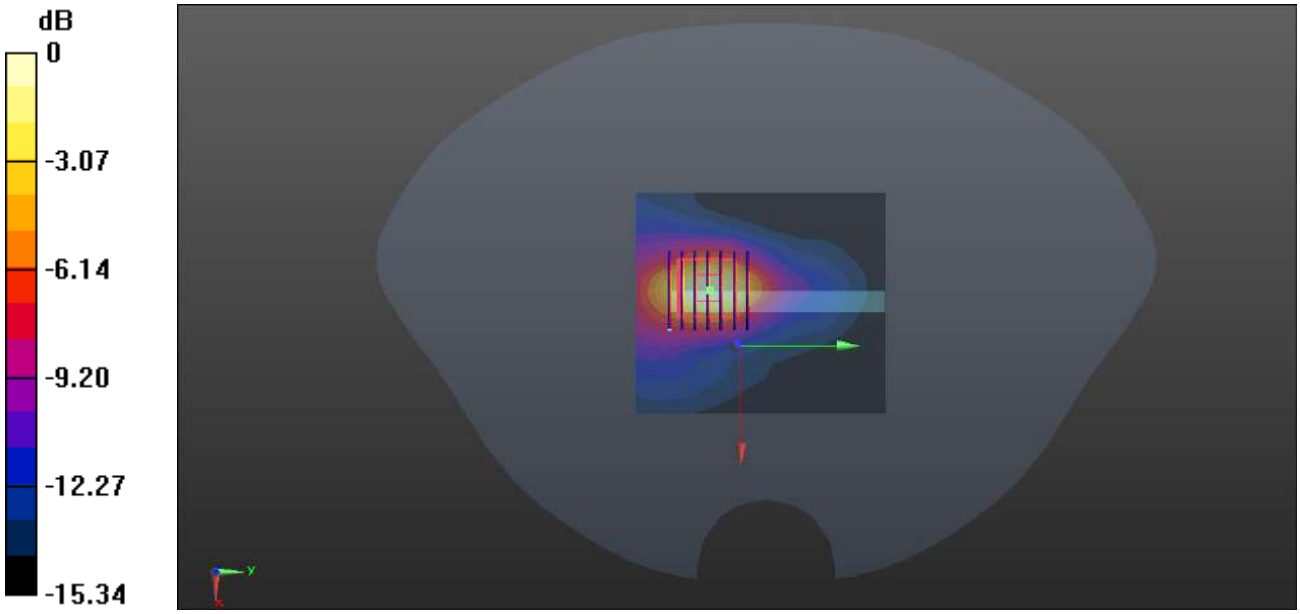
Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.528 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.60 W/kg

SAR(1 g) = 0.815 W/kg; SAR(10 g) = 0.369 W/kg

Maximum value of SAR (measured) = 0.949 W/kg



0 dB = 0.949 W/kg

Meas.36 Body Plane with Bask Side 10mm on Middle Channel in LTE Band7 mode with Antenna0

Date: 2023.07.10

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

Medium parameters used (interpolated): f = 2535 MHz; σ = 1.828 S/m; ε_r = 39.36; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.7℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.78, 7.78, 7.78); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch21100/Area Scan (81x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

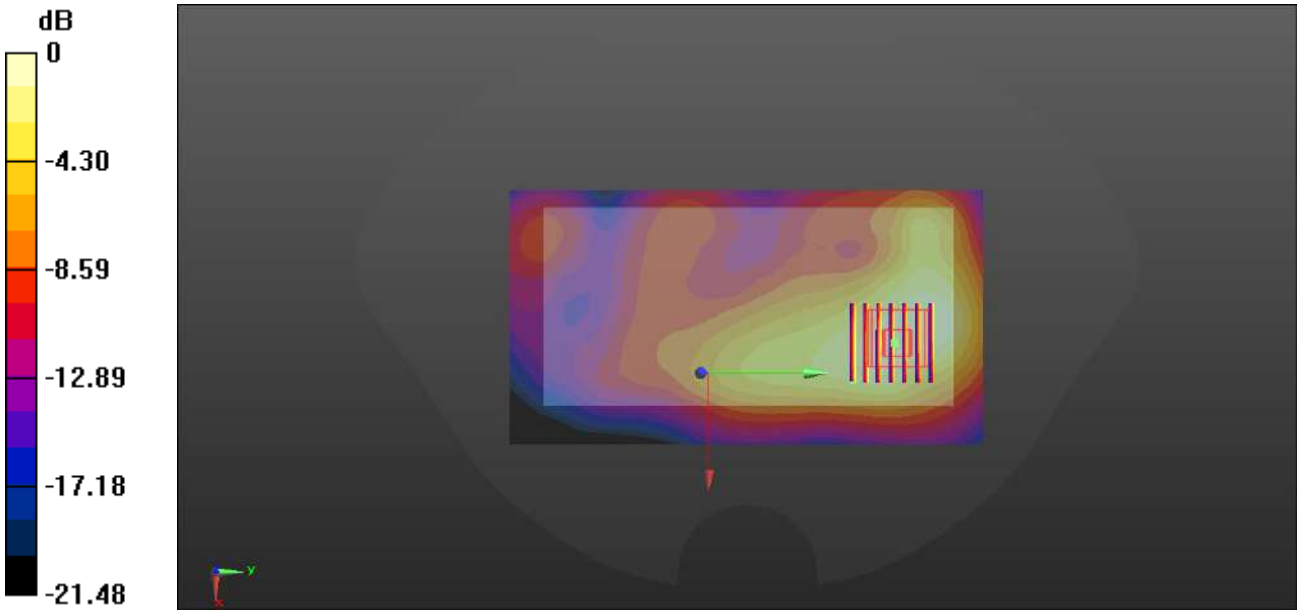
Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.226 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.786 W/kg

SAR(1 g) = 0.442 W/kg; SAR(10 g) = 0.243 W/kg

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



0 dB = 0.488 W/kg

Meas.37 Body Plane with Top Edge 0mm on Middle Channel in LTE Band7 mode with Antenna1

Date: 2023.07.10

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

Medium parameters used (interpolated): f = 2535 MHz; σ = 1.828 S/m; ε_r = 39.36; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.7℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.78, 7.78, 7.78); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch21100/Area Scan (81x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 6.50 W/kg

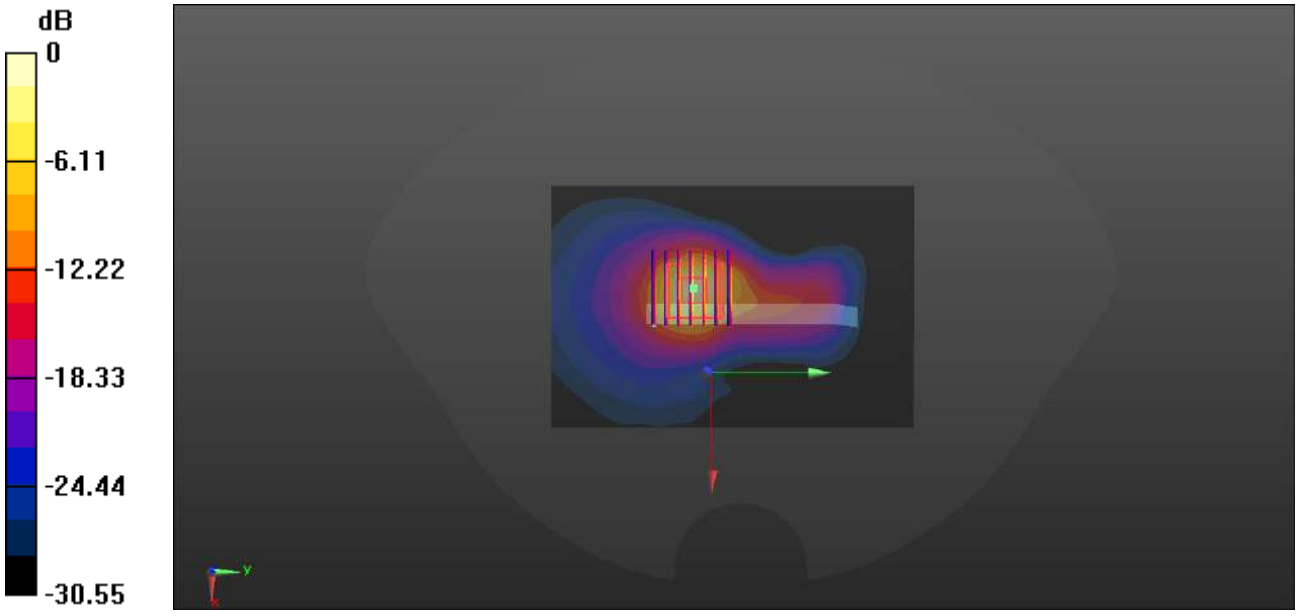
Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.26 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 24.5 W/kg

SAR(1 g) = 6.57 W/kg; SAR(10 g) = 2 W/kg

Maximum value of SAR (measured) = 8.20 W/kg



0 dB = 8.20 W/kg

Meas.38 Right Head with Cheek on Middle Channel in LTE Band12 mode with Antenna 1

Date: 2023.06.27

Communication System Band: Band 12; Frequency: 707.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.883 S/m; ε_r = 43.002; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.5℃ Liquid Temperature:21.2℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.4, 10.4, 10.4); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch23095/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.681 W/kg

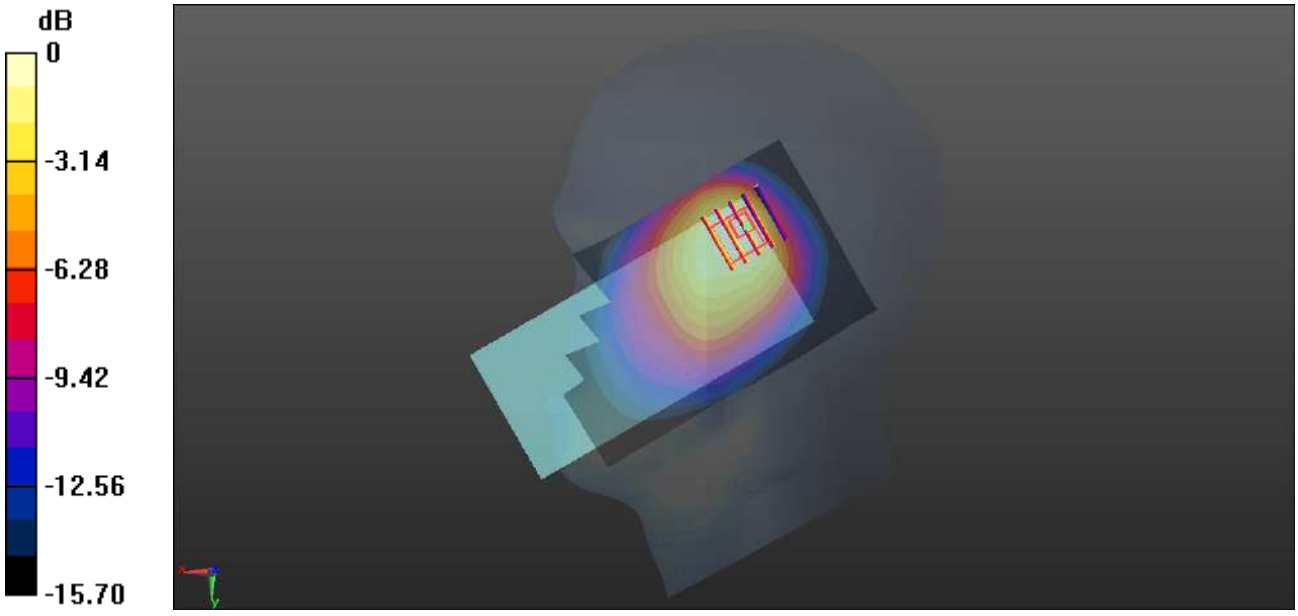
Ch23095/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.08 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.659 W/kg; SAR(10 g) = 0.402 W/kg

Maximum value of SAR (measured) = 0.699 W/kg



0 dB = 0.699 W/kg

Meas.39 Body Plane with Back Side 15mm on Middle Channel in LTE Band12 with Antenna 0

Date: 2023.06.27

Communication System Band: Band 12; Frequency: 707.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.883 S/m; ε_r = 43.002; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.2℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.4, 10.4, 10.4); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration 2/Ch23095/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.160 W/kg

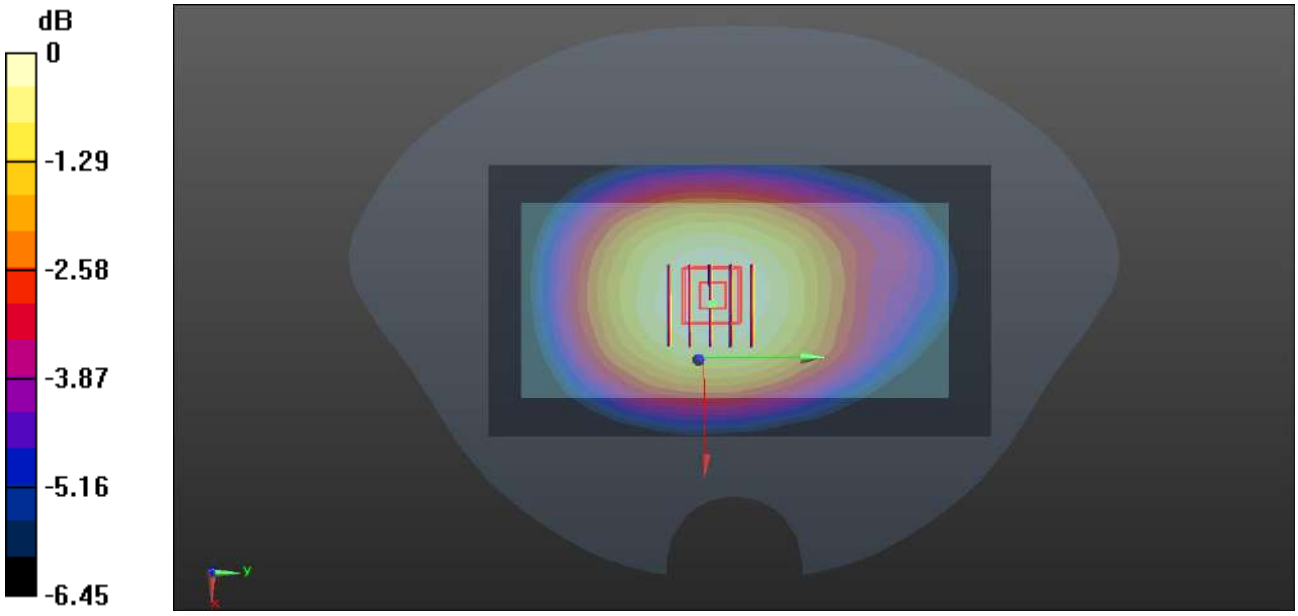
Configuration 2/Ch23095/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.28 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.180 W/kg

SAR(1 g) = 0.152 W/kg; SAR(10 g) = 0.121 W/kg

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



0 dB = 0.157 W/kg

Meas.40 Body Plane with Right Edge 10mm on Middle Channel in LTE Band12 with Antenna 1

Date: 2023.06.27

Communication System Band: Band 12; Frequency: 707.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.883 S/m; ε_r = 43.002; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.2℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.4, 10.4, 10.4); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration 2/Ch23095/Area Scan (51x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.243 W/kg

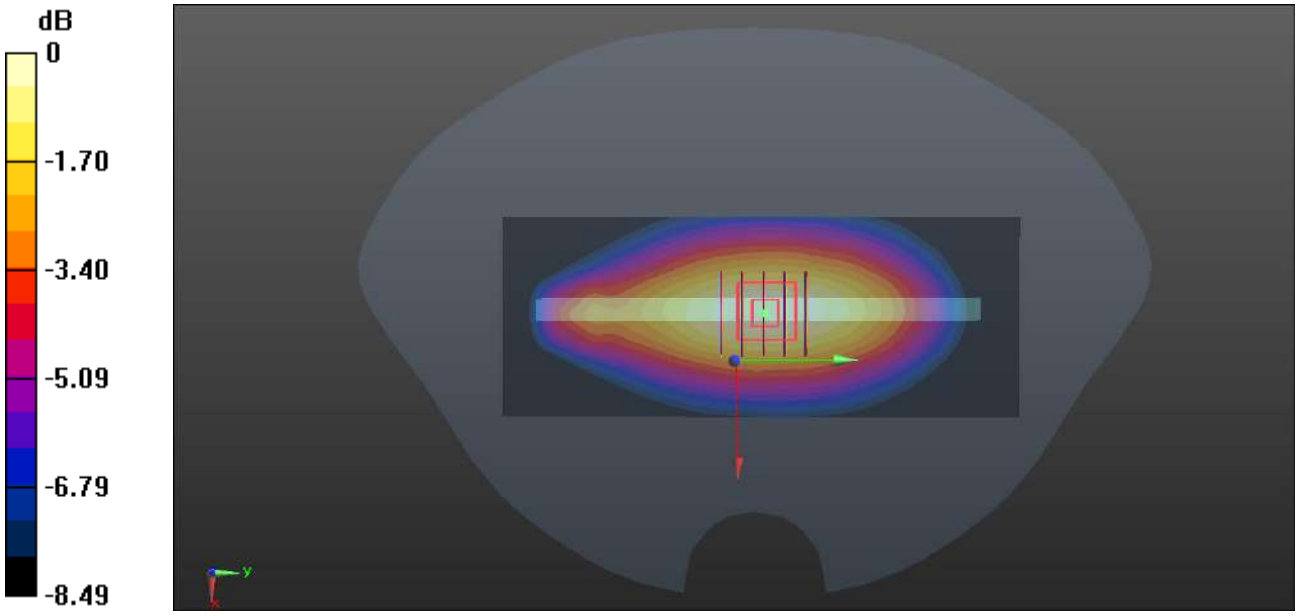
Configuration 2/Ch23095/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.49 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.319 W/kg

SAR(1 g) = 0.227 W/kg; SAR(10 g) = 0.157 W/kg

Maximum value of SAR (measured) = 0.245 W/kg



0 dB = 0.245 W/kg

Meas.41 Body Plane with Back Side 10mm on Middle Channel in LTE Band12 with Antenna 0

Date: 2023.06.27

Communication System Band: Band 12; Frequency: 707.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.883 S/m; ε_r = 43.002; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.2℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.4, 10.4, 10.4); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch23095/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

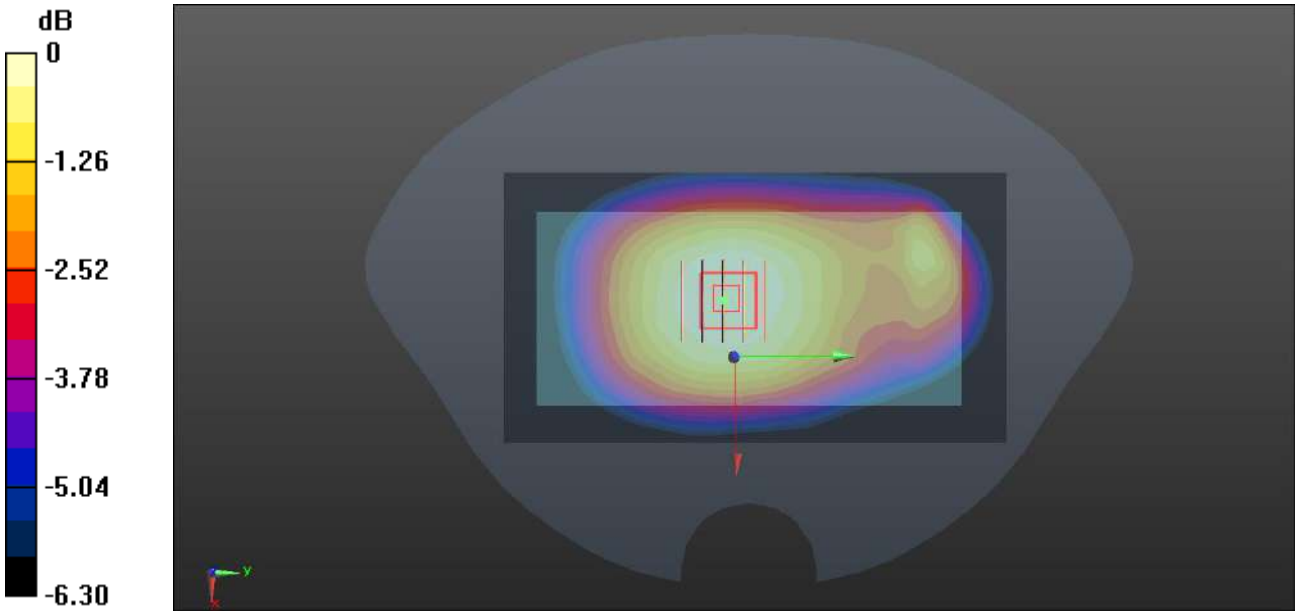
Ch23095/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.33 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.184 W/kg

SAR(1 g) = 0.157 W/kg; SAR(10 g) = 0.126 W/kg

Maximum value of SAR (measured) = 0.164 W/kg



0 dB = 0.164 W/kg

Meas.42 Right Head with Cheek on Middle Channel in LTE Band13 mode with Antenna 1

Date: 2023.06.28

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

Medium parameters used (interpolated): f = 782 MHz; σ = 0.907 S/m; ε_r = 42.985; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.4℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.4, 10.4, 10.4); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- 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) = 0.293 W/kg

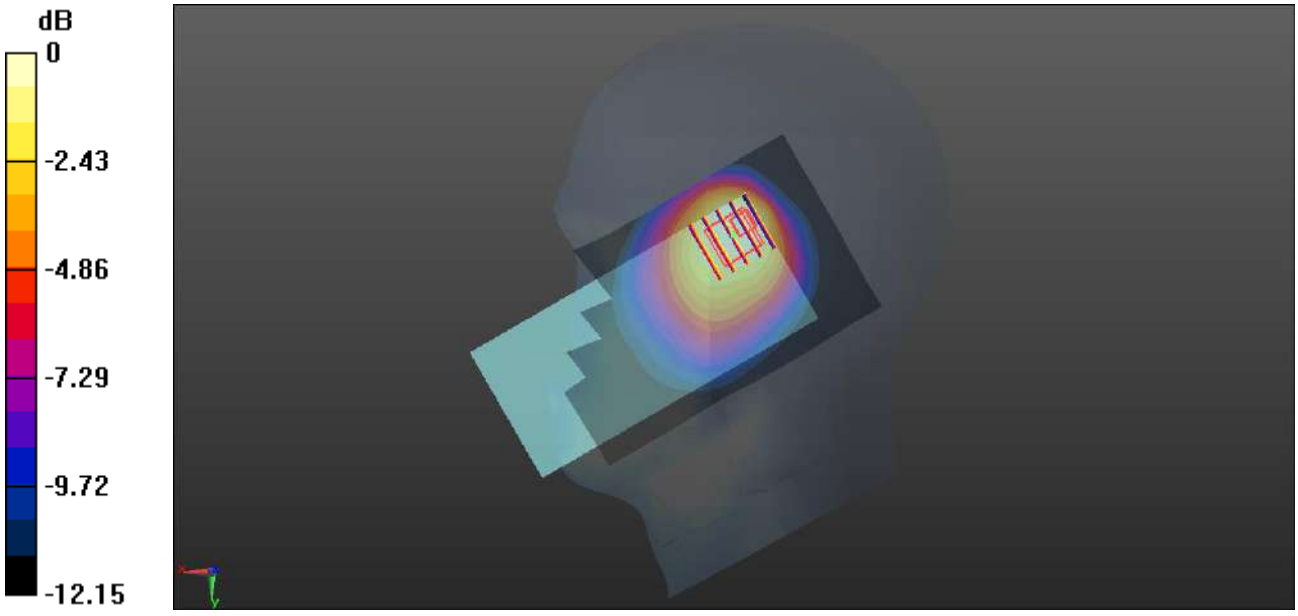
Ch23230/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.04 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.494 W/kg

SAR(1 g) = 0.269 W/kg; SAR(10 g) = 0.173 W/kg

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



0 dB = 0.282 W/kg

Meas.43 Body Plane with Bask Side 15mm on Middle Channel in LTE Band13 mode with Antenna0

Date: 2023.06.28

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

Medium parameters used (interpolated): f = 782 MHz; σ = 0.907 S/m; ε_r = 42.985; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.4, 10.4, 10.4); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- 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) = 0.147 W/kg

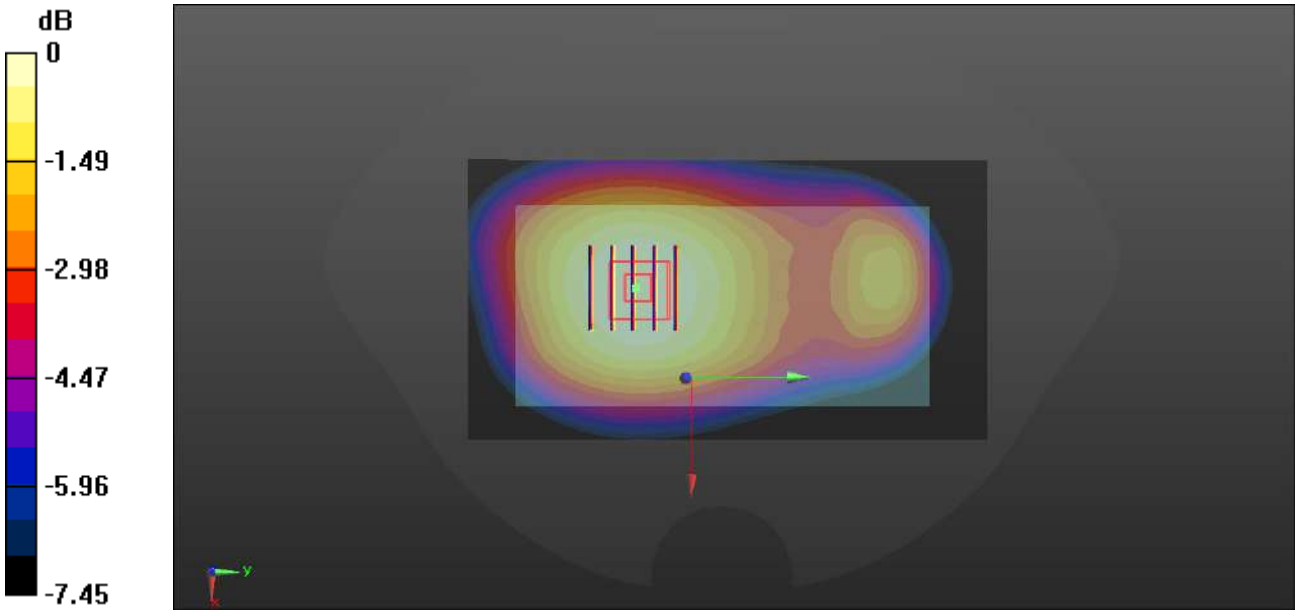
Ch23230/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.93 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.169 W/kg

SAR(1 g) = 0.137 W/kg; SAR(10 g) = 0.106 W/kg

Maximum value of SAR (measured) = 0.144 W/kg



0 dB = 0.144 W/kg

Meas.44 Body Plane with Bask Side 10mm on Middle Channel in LTE Band13 mode with Antenna0

Date: 2023.06.28

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

Medium parameters used (interpolated): f = 782 MHz; σ = 0.907 S/m; ε_r = 42.985; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.4, 10.4, 10.4); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- 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) = 0.205 W/kg

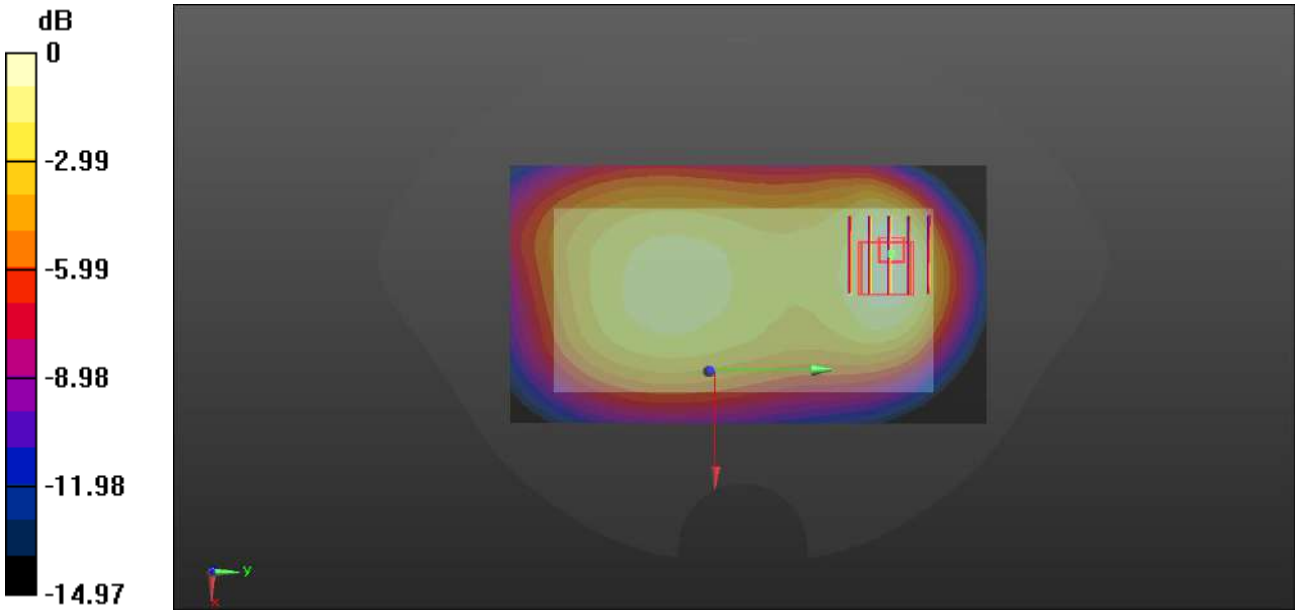
Ch23230/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.30 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.353 W/kg

SAR(1 g) = 0.196 W/kg; SAR(10 g) = 0.122 W/kg

Maximum value of SAR (measured) = 0.214 W/kg



0 dB = 0.214 W/kg

Meas.45 Right Head with Cheek on Low Channel in LTE Band17 mode with Antenna 1

Date: 2023.06.29

Communication System Band: Band 17; Frequency: 709 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 709 MHz; σ = 0.877 S/m; ε_r = 42.195; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.7℃ Liquid Temperature:21.6℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.4, 10.4, 10.4); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch23780/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.839 W/kg

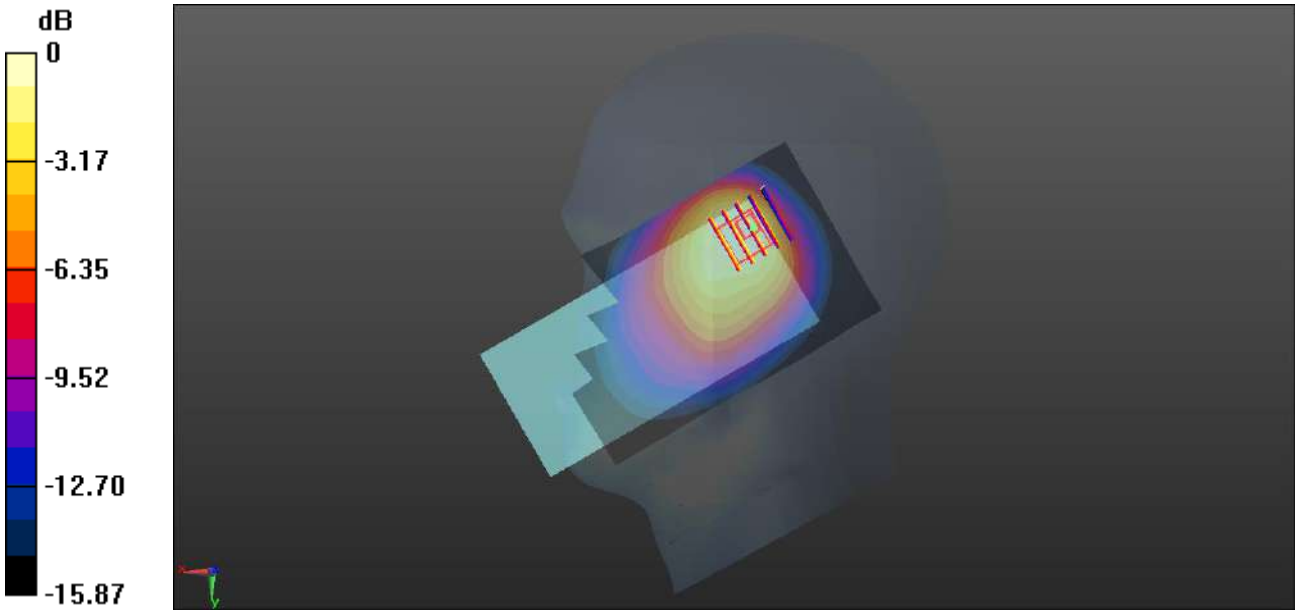
Ch23780/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.51 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 0.812 W/kg; SAR(10 g) = 0.495 W/kg

Maximum value of SAR (measured) = 0.864 W/kg



0 dB = 0.864 W/kg

Meas.46 Body Plane with Bask Side 15mm on Low Channel in LTE Band17 mode with Antenna0

Date: 2023.06.29

Communication System Band: Band 17; Frequency: 709 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 709 MHz; σ = 0.877 S/m; ε_r = 42.195; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7℃ Liquid Temperature:21.6℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.4, 10.4, 10.4); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch23780/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.205 W/kg

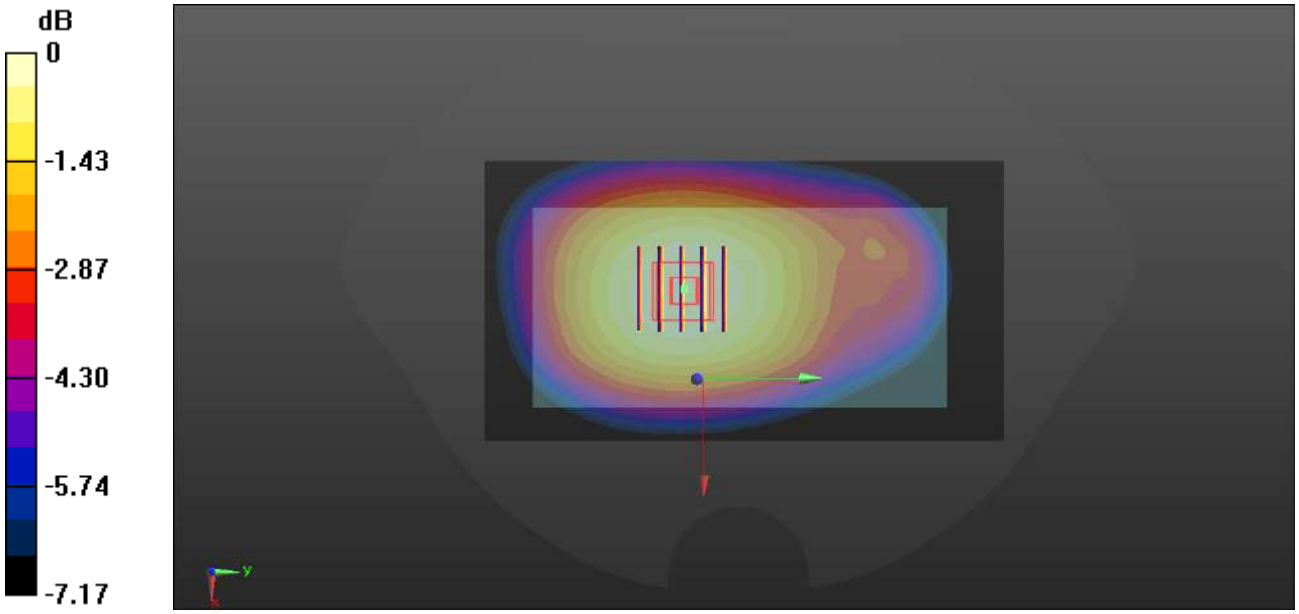
Ch23780/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.10 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.240 W/kg

SAR(1 g) = 0.196 W/kg; SAR(10 g) = 0.153 W/kg

Maximum value of SAR (measured) = 0.205 W/kg



0 dB = 0.205 W/kg

Meas.47 Body Plane with Bask Side 10mm on Middle Channel in LTE Band17 mode with Antenna0

Date: 2023.06.29

Communication System Band: Band 17; Frequency: 709 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 709 MHz; σ = 0.877 S/m; ε_r = 42.195; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7℃ Liquid Temperature:21.6℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.4, 10.4, 10.4); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch23780/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.210 W/kg

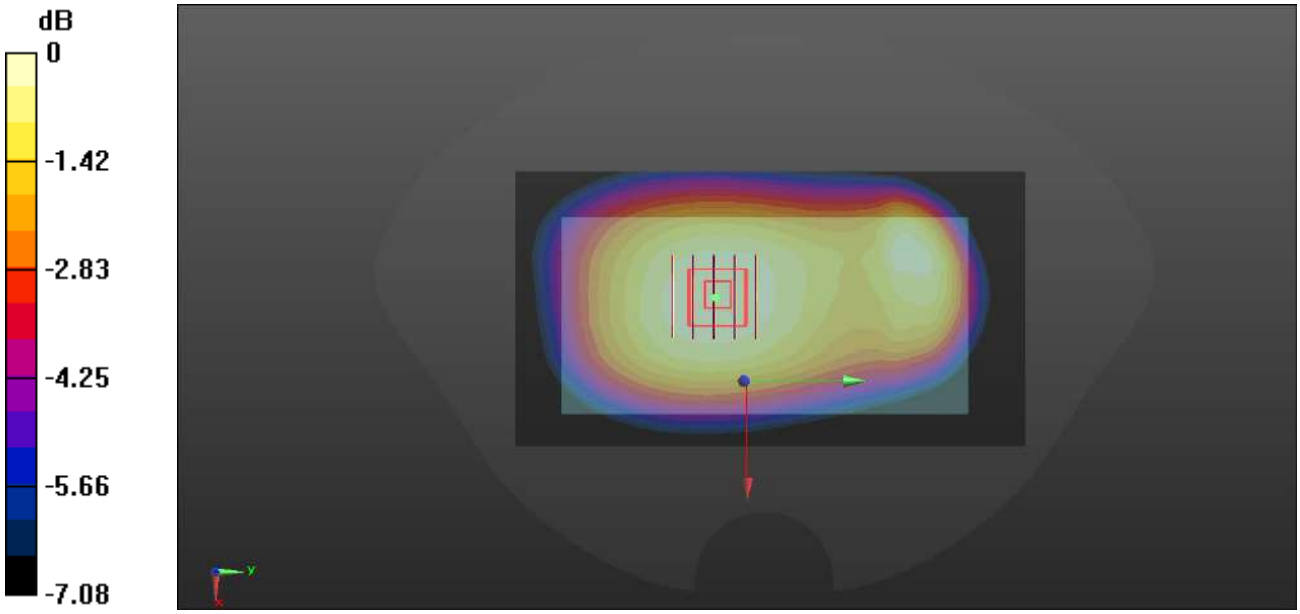
Ch23780/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.89 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.245 W/kg

SAR(1 g) = 0.201 W/kg; SAR(10 g) = 0.158 W/kg

Maximum value of SAR (measured) = 0.210 W/kg



0 dB = 0.210 W/kg

Meas.48 Right Head with Cheek on High Channel in LTE Band26 mode with Antenna 1-State7

Date: 2023.07.03

Communication System Band: Band 26; Frequency: 841.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 841.5 MHz; σ = 0.895 S/m; ε_r = 42.325; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.1℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch26965/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.734 W/kg

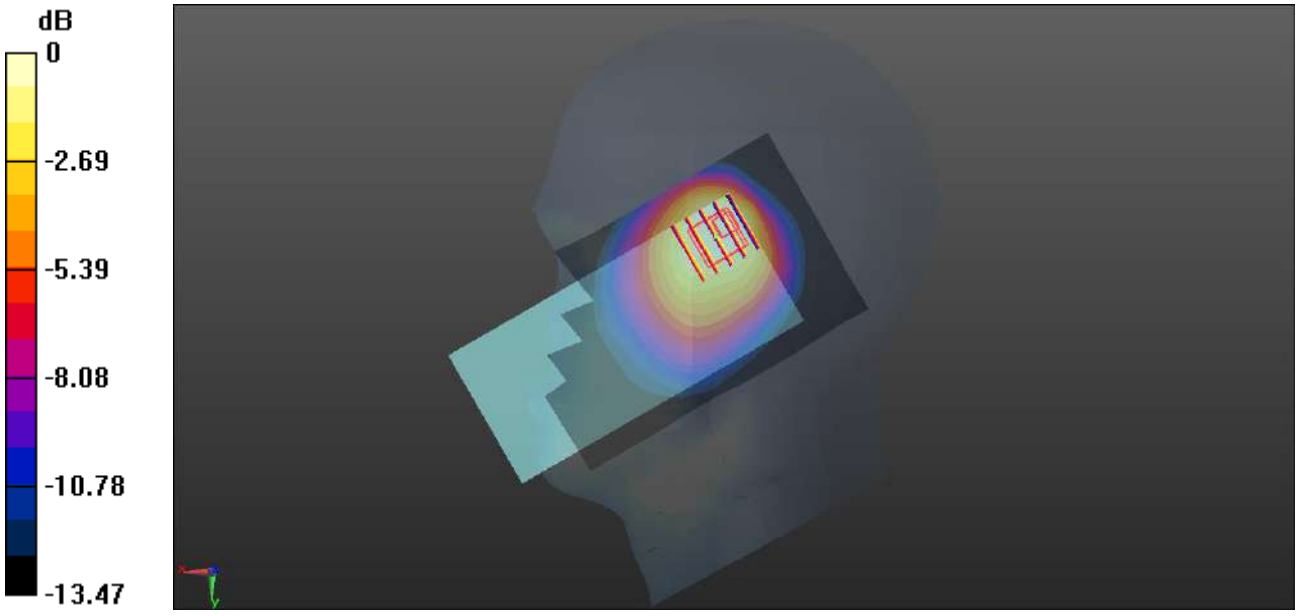
Ch26965/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.82 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.637 W/kg; SAR(10 g) = 0.409 W/kg

Maximum value of SAR (measured) = 0.669 W/kg



0 dB = 0.669 W/kg

Meas.49 Body Plane with Bask Side 15mm on Middle Channel in LTE Band26 mode with Antenna0

Date: 2023.07.03

Communication System Band: Band 26; Frequency: 841.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 841.5 MHz; σ = 0.895 S/m; ε_r = 42.325; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.1℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch26965/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.161 W/kg

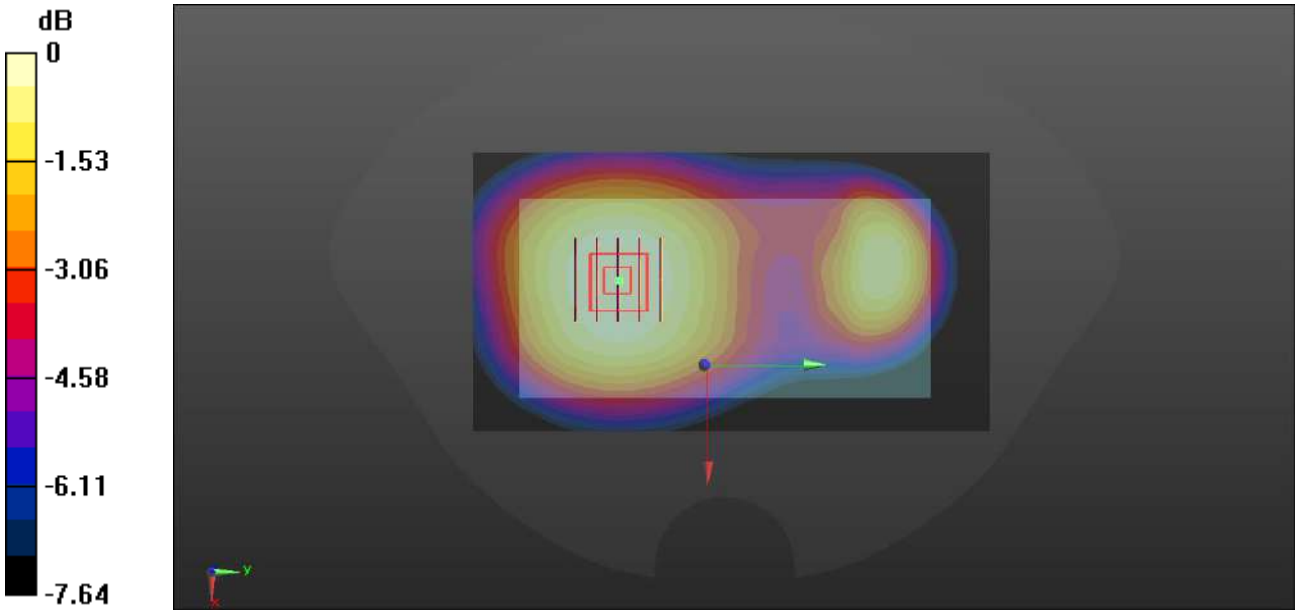
Ch26965/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.54 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.186 W/kg

SAR(1 g) = 0.150 W/kg; SAR(10 g) = 0.115 W/kg

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



0 dB = 0.157 W/kg

Meas.50 Body Plane with Bask Side 10mm on Middle Channel in LTE Band26 mode with Antenna0

Date: 2023.07.03

Communication System Band: Band 26; Frequency: 841.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 841.5 MHz; σ = 0.895 S/m; ε_r = 42.325; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.1℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch26965/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.289 W/kg

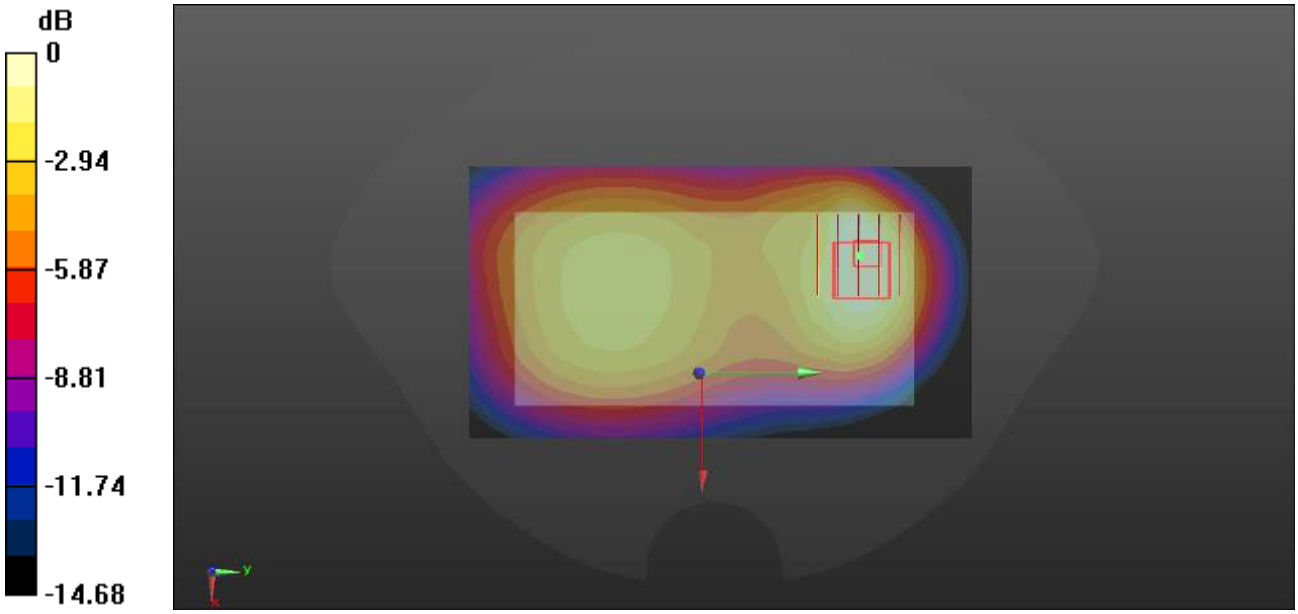
Ch26965/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.21 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.467 W/kg

SAR(1 g) = 0.261 W/kg; SAR(10 g) = 0.160 W/kg

Maximum value of SAR (measured) = 0.281 W/kg



0 dB = 0.281 W/kg

Meas.51 Right Head with Tilt on Middle Channel in LTE Band38 mode with Antenna 1

Date: 2023.07.11

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

Medium parameters used (interpolated): f = 2595 MHz; σ = 1.992 S/m; ε_r = 40.007; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.2℃ Liquid Temperature:21.6℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.6, 7.6, 7.6); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- 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) = 0.802 W/kg

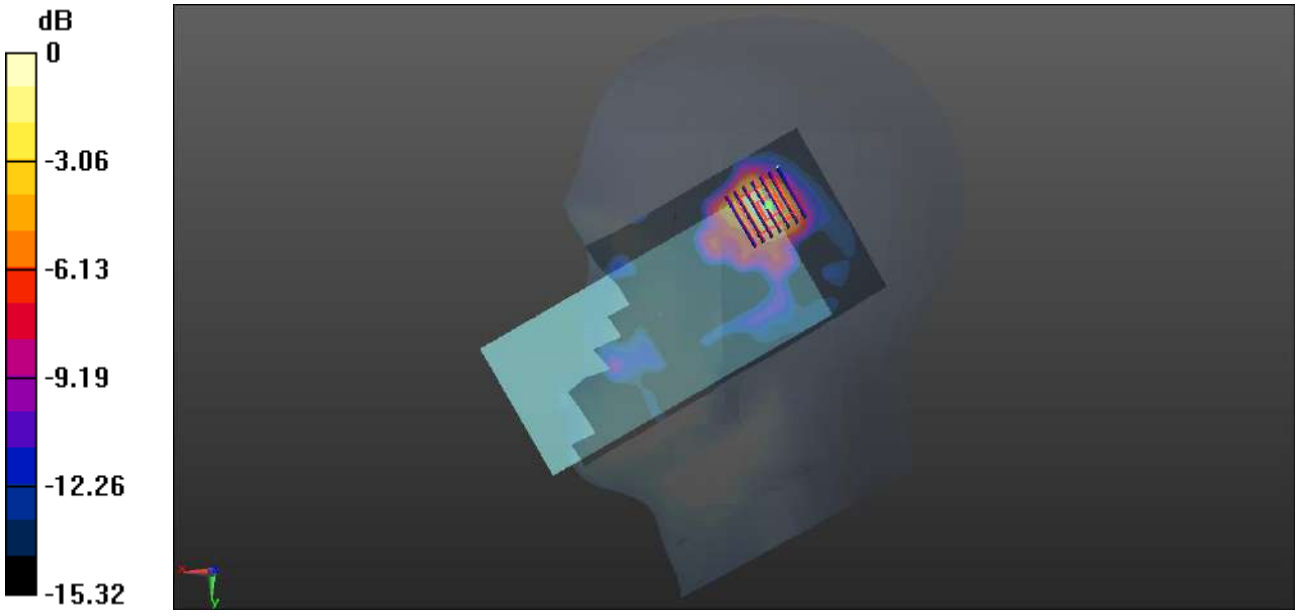
Ch38000/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.986 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 0.744 W/kg; SAR(10 g) = 0.320 W/kg

Maximum value of SAR (measured) = 0.886 W/kg



0 dB = 0.886 W/kg

Meas.52 Body Plane with Back Side 15mm on Middle Channel in LTE Band38 mode with Antenna 1

Date: 2023.07.11

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

Medium parameters used (interpolated): f = 2595 MHz; σ = 1.992 S/m; ε_r = 40.007; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2℃ Liquid Temperature:21.6℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.6, 7.6, 7.6); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch38000/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

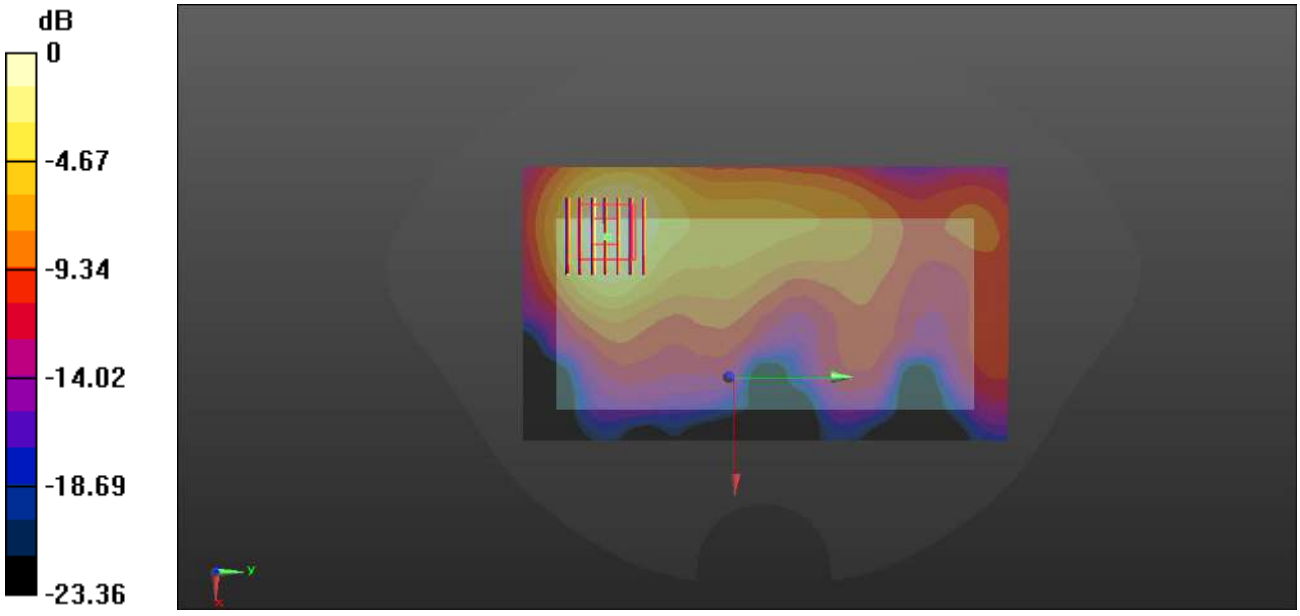
Ch38000/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.074 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.622 W/kg

SAR(1 g) = 0.322 W/kg; SAR(10 g) = 0.166 W/kg

Maximum value of SAR (measured) = 0.356 W/kg



0 dB = 0.356 W/kg

Meas.53 Body Plane with Back Side 15mm on Middle Channel in NR Band38 mode with Antenna 4

Date: 2023.07.11

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

Medium parameters used (interpolated): f = 2595 MHz; σ = 1.992 S/m; ε_r = 40.007; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2℃ Liquid Temperature:21.6℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.6, 7.6, 7.6); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch38000/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

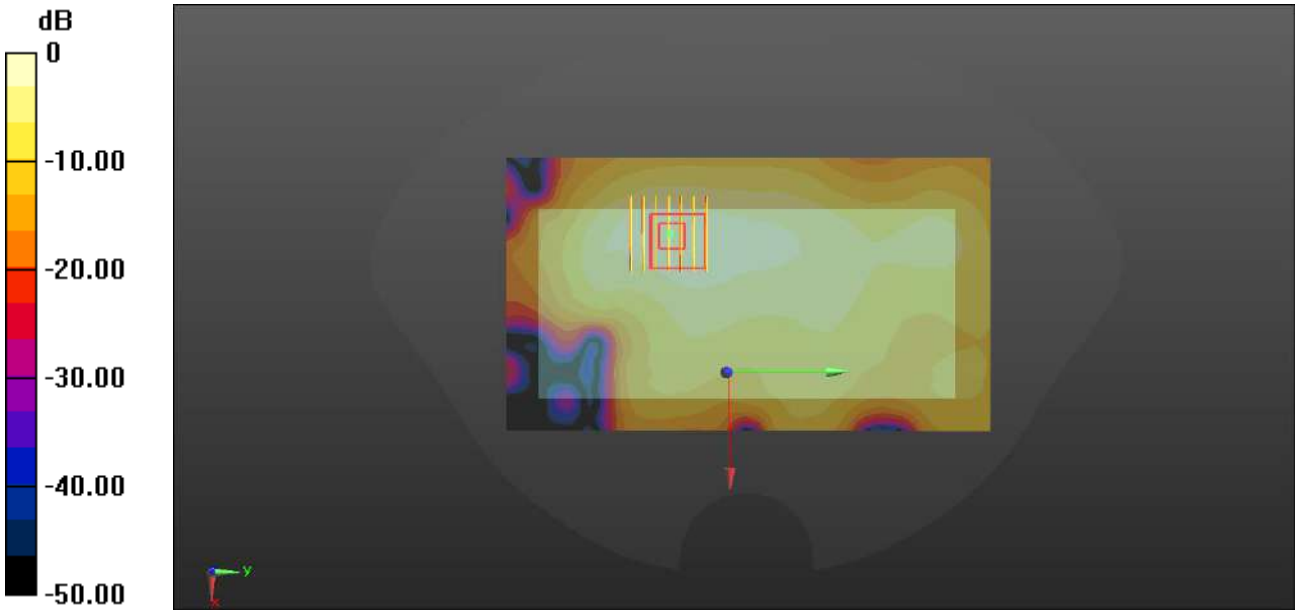
Ch38000/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.729 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.350 W/kg

SAR(1 g) = 0.184 W/kg; SAR(10 g) = 0.095 W/kg

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



0 dB = 0.204 W/kg

Meas.54 Body Plane with Top Edge 10mm on Low Channel in LTE Band38 mode with Antenna 1

Date: 2023.07.11

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

Medium parameters used (interpolated): f = 2580 MHz; σ = 1.973 S/m; ε_r = 40.127; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2℃ Liquid Temperature:21.6℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.6, 7.6, 7.6); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch37850/Area Scan (71x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

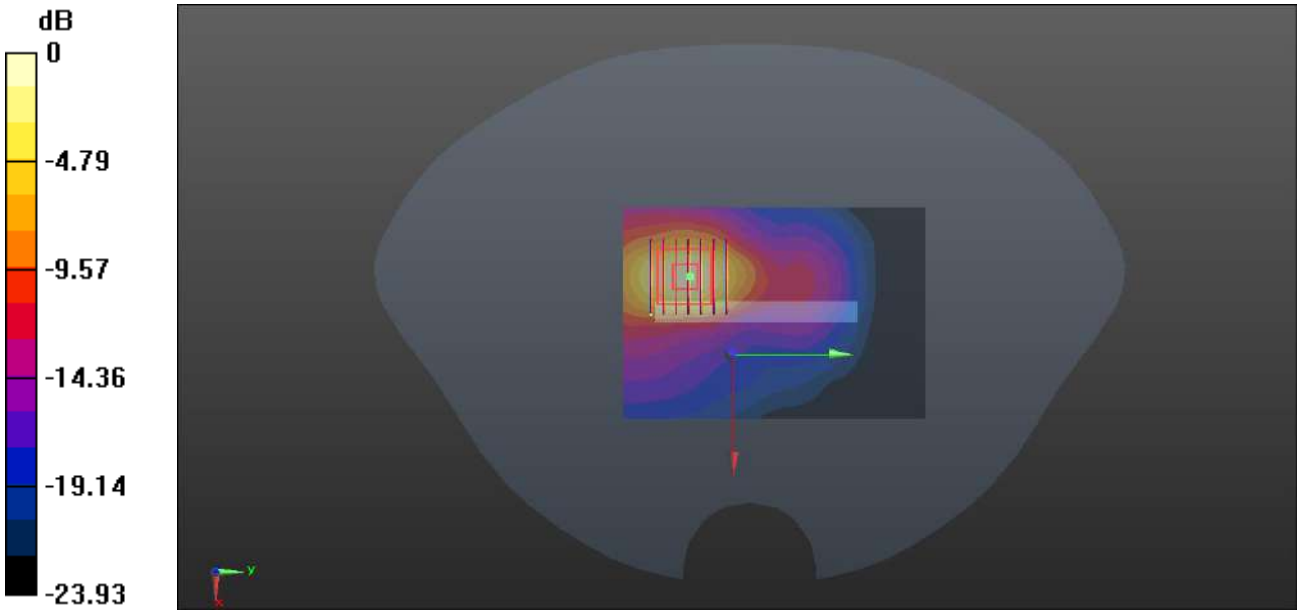
Ch37850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.306 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.00 W/kg

SAR(1 g) = 0.960 W/kg; SAR(10 g) = 0.421 W/kg

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



0 dB = 1.11 W/kg

Meas.55 Body Plane with Back Side 10mm on Middle Channel in LTE Band38 mode with Antenna 0

Date: 2023.07.11

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

Medium parameters used (interpolated): f = 2595 MHz; σ = 1.992 S/m; ε_r = 40.007; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2℃ Liquid Temperature:21.6℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.6, 7.6, 7.6); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch38000/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

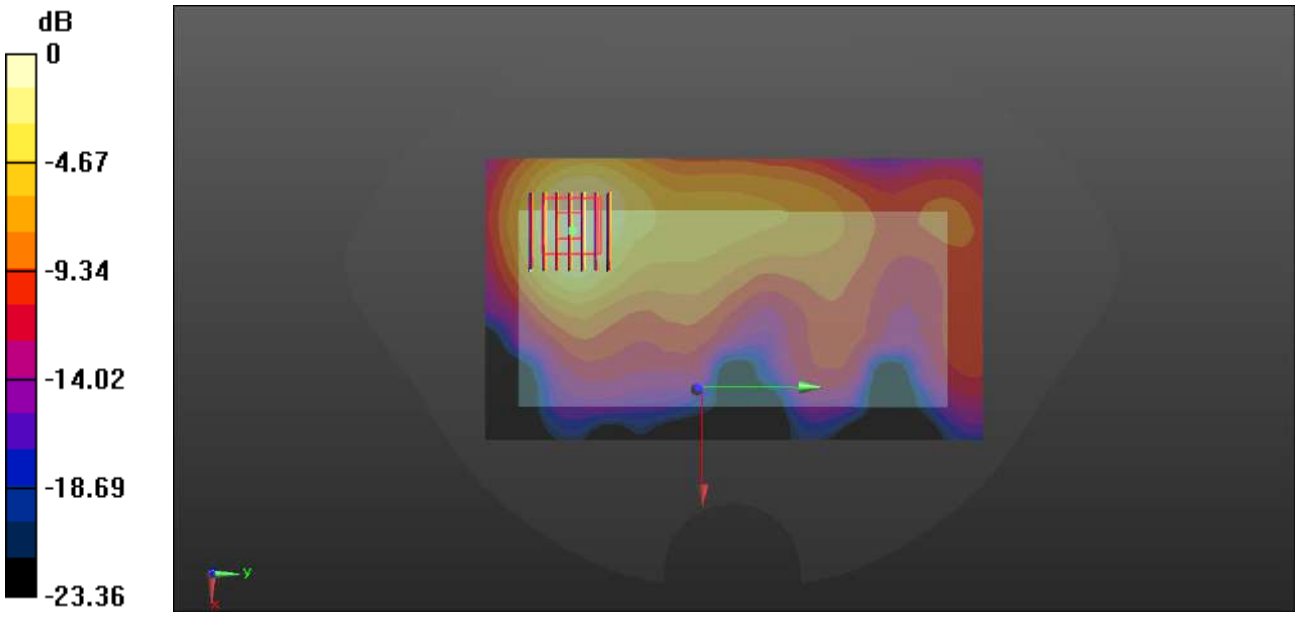
Ch38000/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.074 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.622 W/kg

SAR(1 g) = 0.432 W/kg; SAR(10 g) = 0.166 W/kg

Maximum value of SAR (measured) = 0.356 W/kg



0 dB = 0.356 W/kg

Meas.56 Body Plane with Top Edge 0mm on Low Channel in LTE Band38 mode with Antenna 4

Date: 2023.07.11

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

Medium parameters used (interpolated): f = 2580 MHz; σ = 1.973 S/m; ε_r = 40.127; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2℃ Liquid Temperature:21.6℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.6, 7.6, 7.6); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 4.90 W/kg

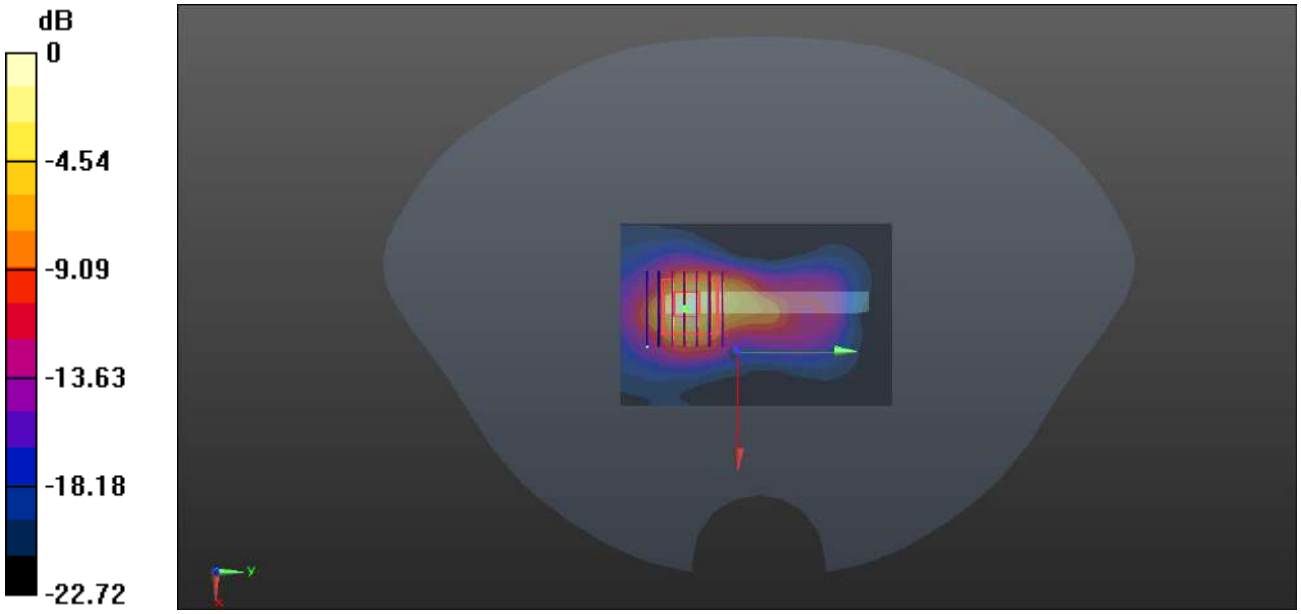
Ch37850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 25.13 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 16.1 W/kg

SAR(1 g) = 4.3 W/kg; SAR(10 g) = 1.4 W/kg

Maximum value of SAR (measured) = 5.38 W/kg



0 dB = 5.38 W/kg

Meas.57 Right Head with Tilt on Low Channel in LTE Band41 mode with Antenna 1

Date: 2023.07.12

Communication System Band: Band41; Frequency: 2506 MHz;Duty Cycle: 1:1.58

Medium parameters used (interpolated): f = 2506 MHz; σ = 1.873 S/m; ε_r = 38.779; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.5℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.78, 7.78, 7.78); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.833 W/kg

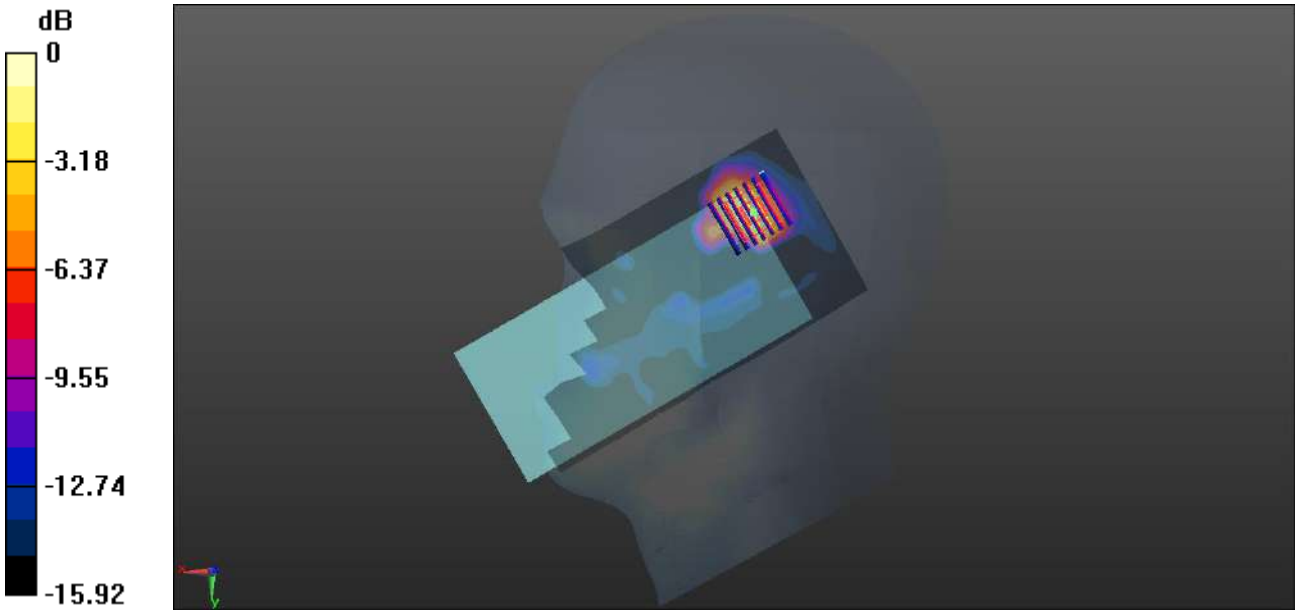
Ch39750/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.242 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.72 W/kg

SAR(1 g) = 0.726 W/kg; SAR(10 g) = 0.302 W/kg

Maximum value of SAR (measured) = 0.882 W/kg



0 dB = 0.882 W/kg

Meas.58 Right Head with Cheek on Middle Channel in LTE Band41 mode with Antenna 4

Date: 2023.07.12

Communication System Band: Band41; Frequency: 2593 MHz;Duty Cycle: 1:1.58

Medium parameters used (interpolated): f = 2593 MHz; σ = 1.974 S/m; ε_r = 38.12; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.5℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.6, 7.6, 7.6); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch40620/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.381 W/kg

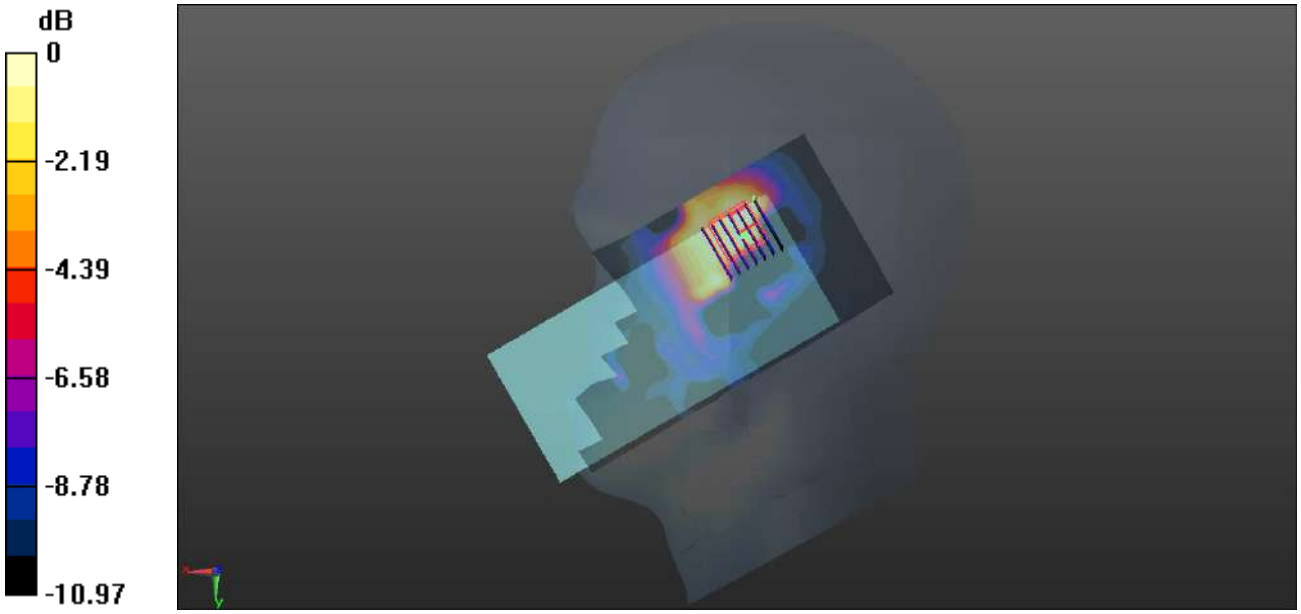
Ch40620/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.245 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.491 W/kg

SAR(1 g) = 0.247 W/kg; SAR(10 g) = 0.128 W/kg

Maximum value of SAR (measured) = 0.272 W/kg



0 dB = 0.272 W/kg

Meas.59 Body Plane with Back Side 15mm on Middle Channel in LTE Band41 mode with Antenna 1

Date: 2023.07.12

Communication System Band: Band41; Frequency: 2593 MHz;Duty Cycle: 1:1.58

Medium parameters used (interpolated): f = 2593 MHz; σ = 1.974 S/m; ε_r = 38.12; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.6, 7.6, 7.6); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch40620/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.326 W/kg

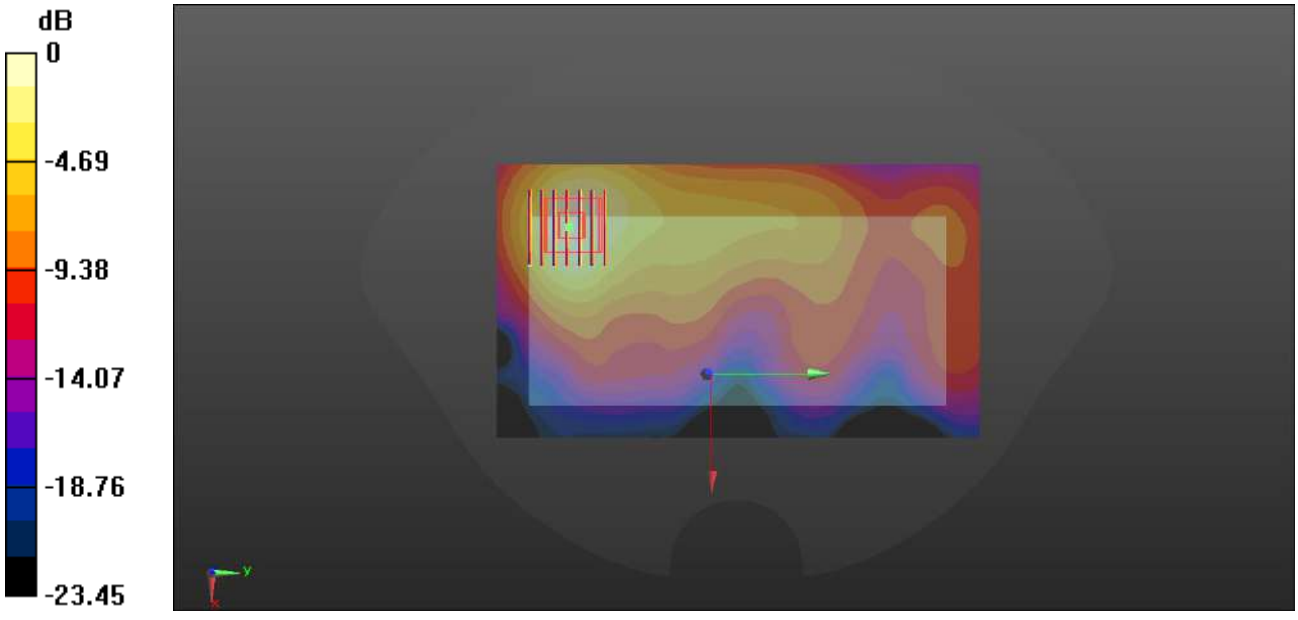
Ch40620/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.361 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.579 W/kg

SAR(1 g) = 0.298 W/kg; SAR(10 g) = 0.153 W/kg

Maximum value of SAR (measured) = 0.331 W/kg



0 dB = 0.331 W/kg

Meas.60 Body Plane with Back Side 15mm on Middle Channel in LTE Band41 mode with Antenna 4

Date: 2023.07.12

Communication System Band: Band41; Frequency: 2593 MHz;Duty Cycle: 1:1.58

Medium parameters used (interpolated): f = 2593 MHz; σ = 1.974 S/m; ε_r = 38.12; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.6, 7.6, 7.6); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch40620/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.177 W/kg

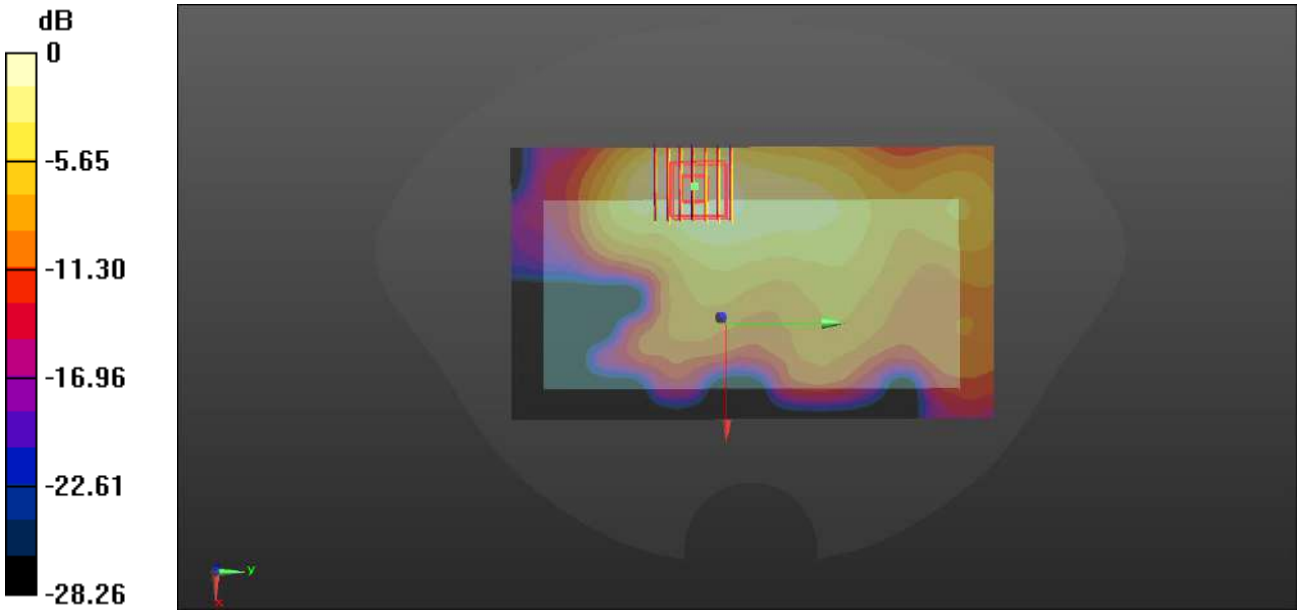
Ch40620/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.914 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.301 W/kg

SAR(1 g) = 0.159 W/kg; SAR(10 g) = 0.083 W/kg

Maximum value of SAR (measured) = 0.177 W/kg



0 dB = 0.177 W/kg

Meas.61 Body Plane with Top Edge 10mm on Low Channel in LTE Band41 mode with Antenna 1

Date: 2023.07.12

Communication System Band: Band41; Frequency: 2549.5 MHz;Duty Cycle: 1:1.58

Medium parameters used (interpolated): f = 2549.5 MHz; σ = 1.921 S/m; ε_r = 38.432; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.78, 7.78, 7.78); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch40185/Area Scan (71x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

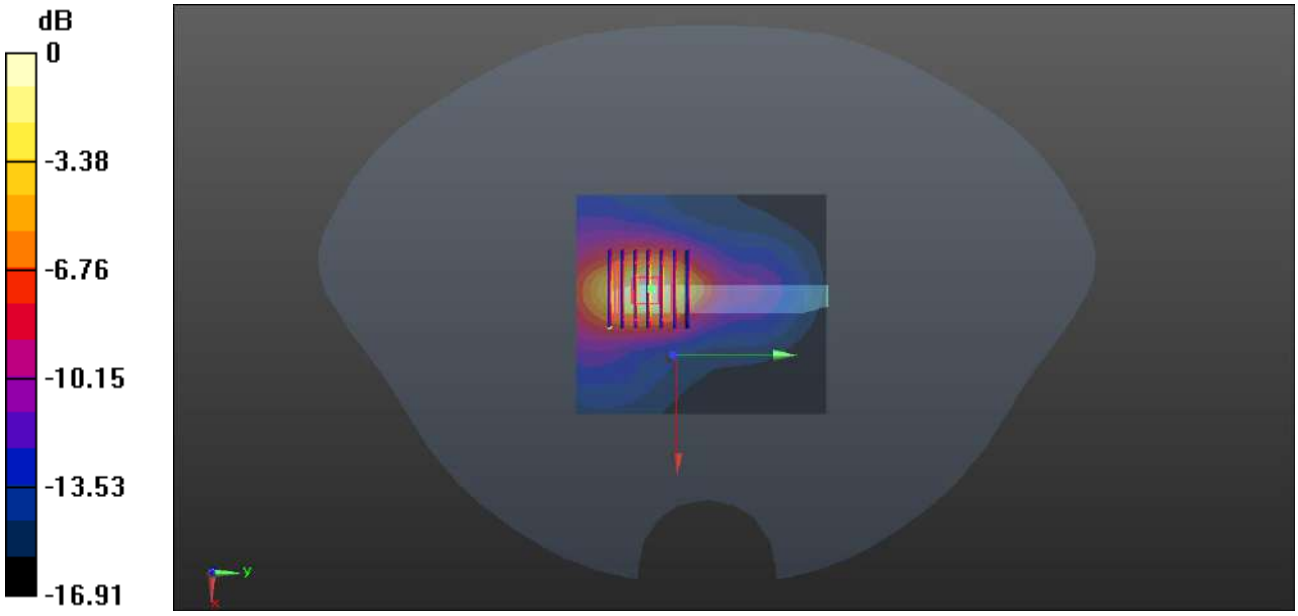
Ch40185/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.750 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.99 W/kg

SAR(1 g) = 0.996 W/kg; SAR(10 g) = 0.445 W/kg

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



0 dB = 1.15 W/kg

Meas.62 Body Plane with Back Side 10mm on Middle Channel in LTE Band41 mode with Antenna 4

Date: 2023.07.12

Communication System Band: Band41; Frequency: 2593 MHz;Duty Cycle: 1:1.58

Medium parameters used (interpolated): f = 2593 MHz; σ = 1.974 S/m; ε_r = 38.12; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.6, 7.6, 7.6); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch40620/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.379 W/kg

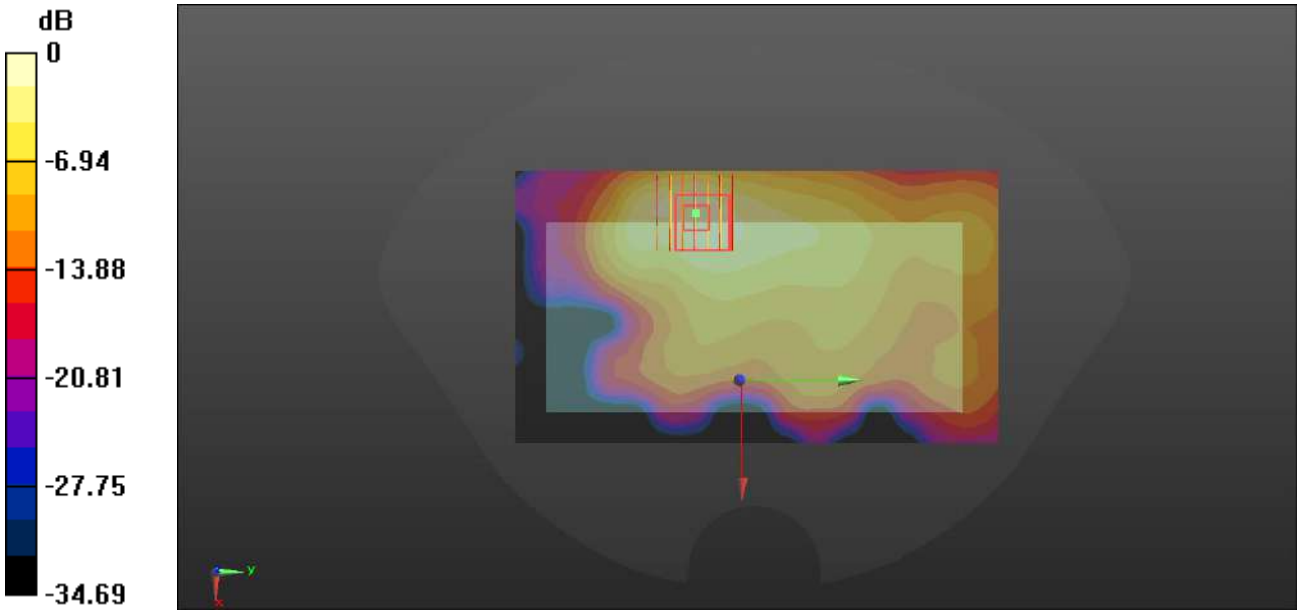
Ch40620/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.161 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.710 W/kg

SAR(1 g) = 0.348 W/kg; SAR(10 g) = 0.169 W/kg

Maximum value of SAR (measured) = 0.391 W/kg



0 dB = 0.391 W/kg

Meas.63 Left Head with Cheek on 6 Channel in IEEE802.11b mode with Antenna7

Date: 2023.07.09

Communication System Band: WLAN(b); Frequency: 2437 MHz;Duty Cycle: 1:1.005

Medium parameters used (interpolated): f = 2437 MHz; σ = 1.764 S/m; ε_r = 39.498; ρ = 1000 kg/m^3

Phantom section: Left Section

Ambient Temperature:22.3℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.78, 7.78, 7.78); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- 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) = 0.662 W/kg

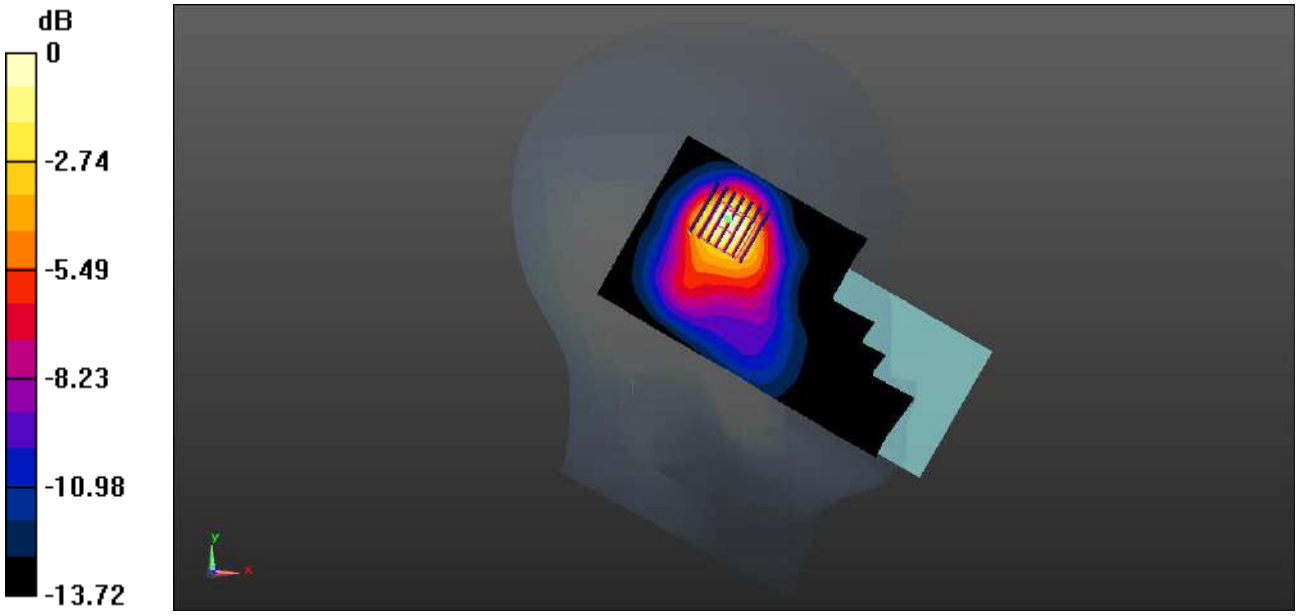
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.202 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.923 W/kg

SAR(1 g) = 0.480 W/kg; SAR(10 g) = 0.253 W/kg

Maximum value of SAR (measured) = 0.541 W/kg



0 dB = 0.541 W/kg

Meas.64 Body Plane with Back Side 15mm on 6 Channel in IEEE802.11b mode with Antenna7

Date: 2023.07.09

Communication System Band: WLAN(b); Frequency: 2437 MHz;Duty Cycle: 1:1.005

Medium parameters used (interpolated): f = 2437 MHz; σ = 1.764 S/m; ε_r = 39.498; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.3℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.78, 7.78, 7.78); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- 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) = 0.0735 W/kg

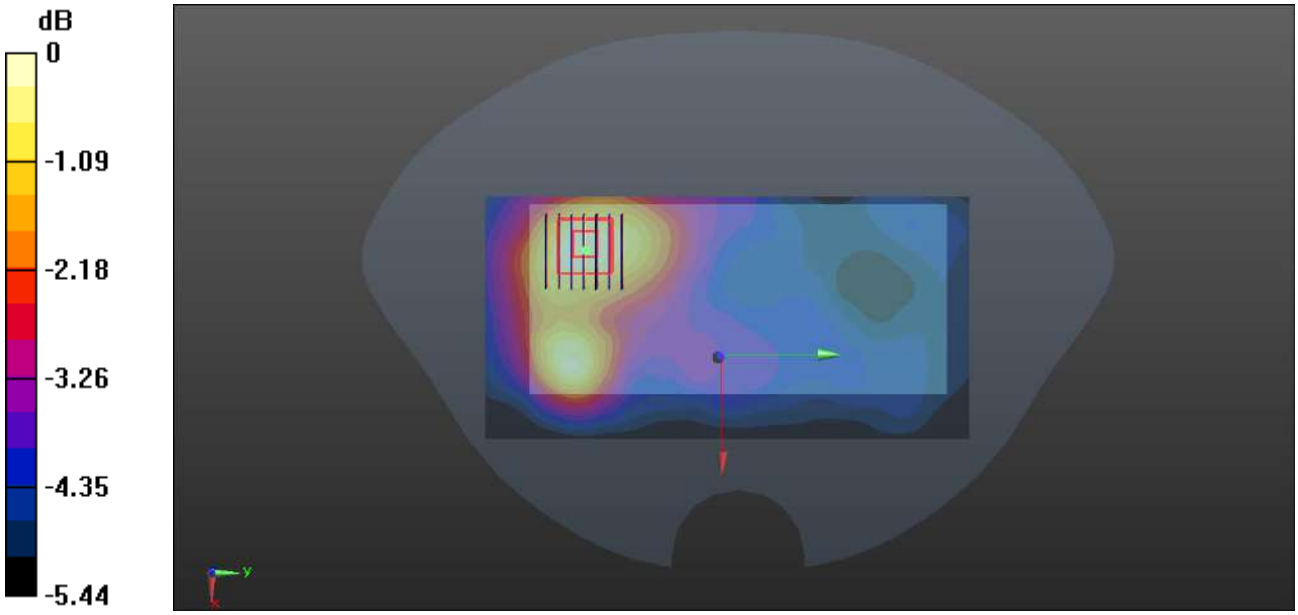
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.601 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.106 W/kg

SAR(1 g) = 0.069 W/kg; SAR(10 g) = 0.049 W/kg

Maximum value of SAR (measured) = 0.0726 W/kg



0 dB = 0.0726 W/kg

Meas.65 Body Plane with Back Side 10mm on 6 Channel in IEEE802.11b mode with Antenna7-TX13

Date: 2023.07.09

Communication System Band: WLAN(b); Frequency: 2437 MHz;Duty Cycle: 1:1.005

Medium parameters used (interpolated): f = 2437 MHz; σ = 1.764 S/m; ε_r = 39.498; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.3℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.78, 7.78, 7.78); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration 2/Ch6/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.135 W/kg

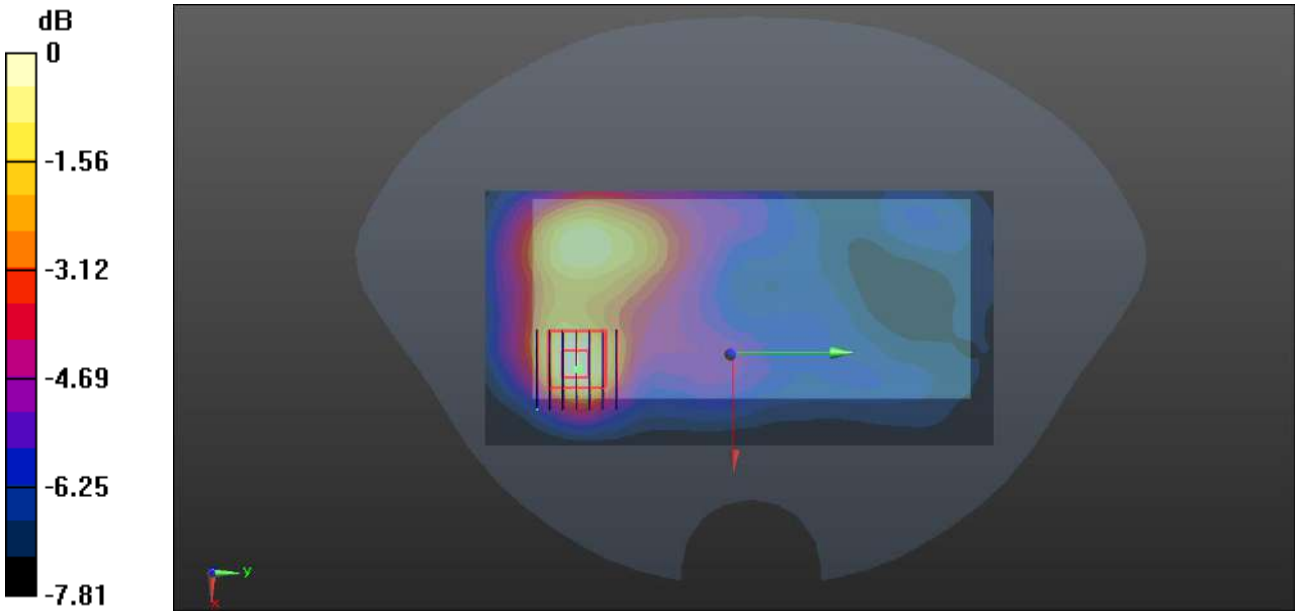
Configuration 2/Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.547 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.221 W/kg

SAR(1 g) = 0.117 W/kg; SAR(10 g) = 0.070 W/kg

Maximum value of SAR (measured) = 0.126 W/kg



0 dB = 0.126 W/kg

Meas.66 Left Head with Cheek on 155 Channel in IEEE802.11ac80 mode

Date: 2023.07.15

Communication System Band: WLAN(ac80); Frequency: 5775 MHz;Duty Cycle: 1:1.108

Medium parameters used (interpolated): f = 5775 MHz; σ = 5.15 S/m; ε_r = 34.867; ρ = 1000 kg/m^3

Phantom section: Left Section

Ambient Temperature:22.4℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.83, 4.83, 4.83); Calibrated: 2023.01.19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 1.23 W/kg

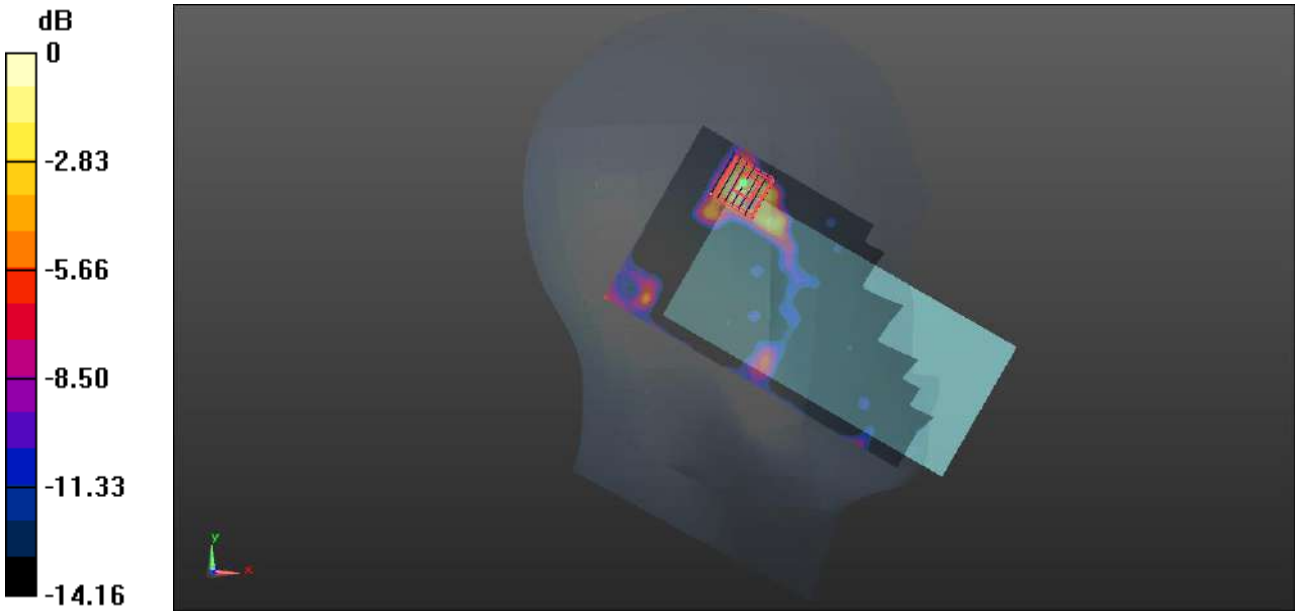
Ch155/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.123 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.27 W/kg

SAR(1 g) = 0.708 W/kg; SAR(10 g) = 0.238 W/kg

Maximum value of SAR (measured) = 1.47 W/kg



0 dB = 1.47 W/kg

Meas.67 Body Plane with Back Side 15mm on 155 Channel in IEEE802.11ac80 with Antenna 7

Date: 2023.07.15

Communication System Band: WLAN(ac80); Frequency: 5775 MHz;Duty Cycle: 1:1.108

Medium parameters used (interpolated): f = 5775 MHz; σ = 5.15 S/m; ε_r = 34.867; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.83, 4.83, 4.83); Calibrated: 2023.01.19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch155/Area Scan (111x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.446 W/kg

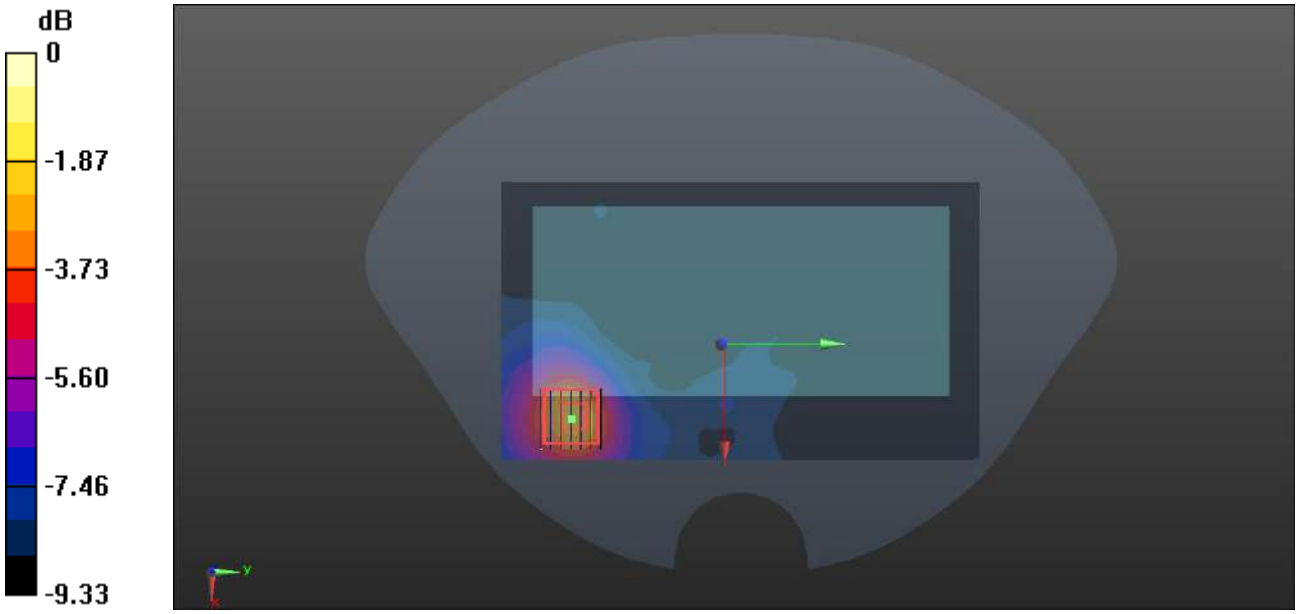
Ch155/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.823 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.420 W/kg; SAR(10 g) = 0.219 W/kg

Maximum value of SAR (measured) = 0.693 W/kg



0 dB = 0.693 W/kg

Meas.68 Body Plane with Left Edge 10mm on 155 Channel in IEEE802.11ac80 with Antenna 7

Date: 2023.07.15

Communication System Band: WLAN(ac80); Frequency: 5775 MHz;Duty Cycle: 1:1.108

Medium parameters used (interpolated): f = 5775 MHz; σ = 5.15 S/m; ε_r = 34.867; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.83, 4.83, 4.83); Calibrated: 2023.01.19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration 2/Ch155/Area Scan (81x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

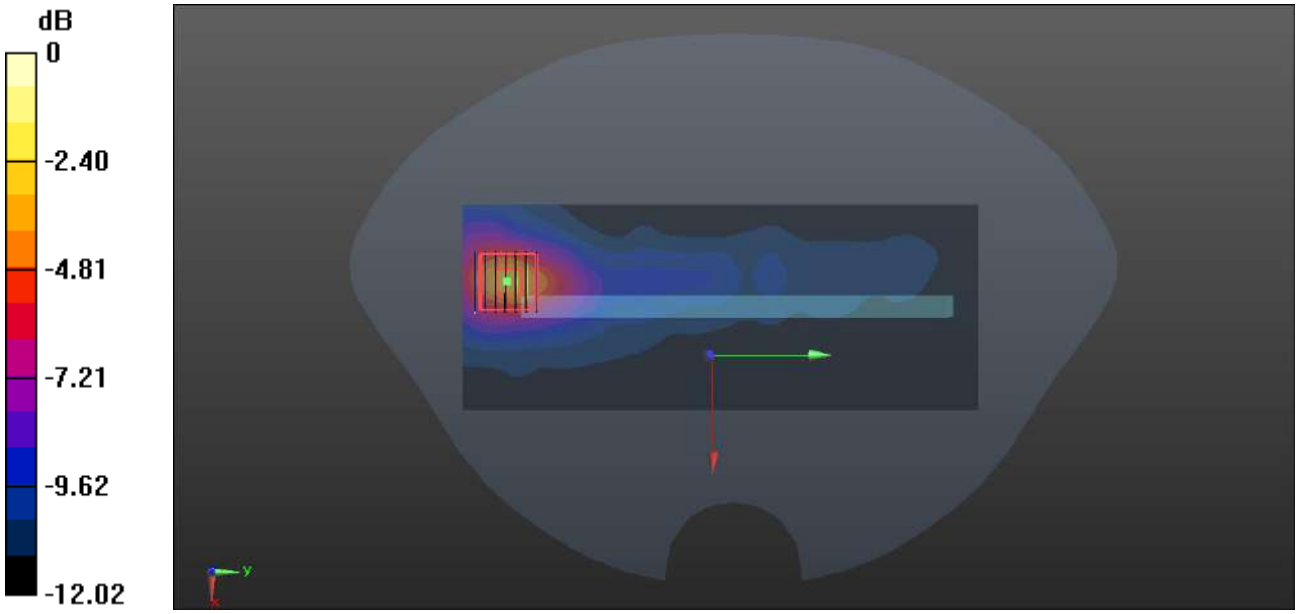
Configuration 2/Ch155/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.199 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 2.35 W/kg

SAR(1 g) = 0.704 W/kg; SAR(10 g) = 0.308 W/kg

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



0 dB = 1.29 W/kg

Meas.69 Body Plane with Left Edge 0mm on 54 Channel in IEEE802.11n40 with Antenna 7

Date: 2023.07.13

Communication System Band: WLAN(n40); Frequency: 5270 MHz;Duty Cycle: 1:1.055

Medium parameters used (interpolated): f = 5270 MHz; σ = 4.754 S/m; ε_r = 35.213; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.1℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.67, 5.67, 5.67); Calibrated: 2023.01.19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration 2/Ch54/Area Scan (81x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.08 W/kg

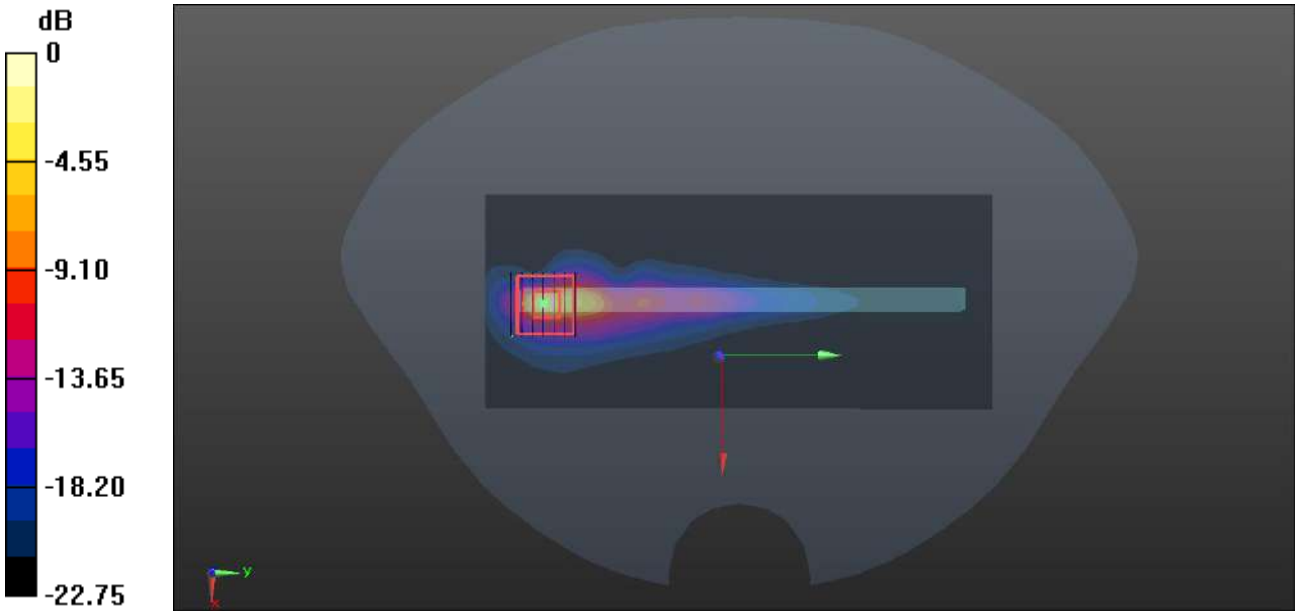
Configuration 2/Ch54/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.443 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 27.4 W/kg

SAR(1 g) = 4.23 W/kg; SAR(10 g) = 0.970 W/kg

Maximum value of SAR (measured) = 11.5 W/kg



0 dB = 11.5 W/kg

Meas.70 Left Head with Cheek on 56 Channel in Bluetooth mode with Antenna7

Date: 2023.07.09

Communication System Band: BT; Frequency: 2458 MHz;Duty Cycle: 1:1.305

Medium parameters used (interpolated): f = 2458 MHz; σ = 1.787 S/m; ε_r = 39.261; ρ = 1000 kg/m^3

Phantom section: Left Section

Ambient Temperature:22.3℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.78, 7.78, 7.78); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch56/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

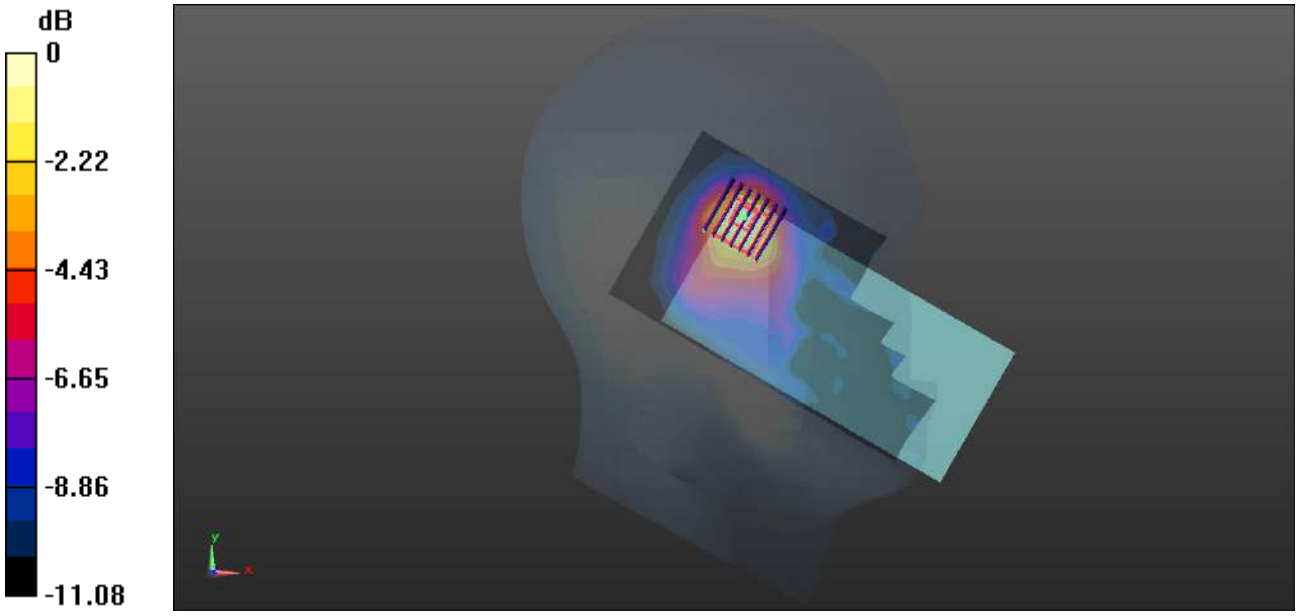
Ch56/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.566 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.489 W/kg

SAR(1 g) = 0.257 W/kg; SAR(10 g) = 0.141 W/kg

Maximum value of SAR (measured) = 0.287 W/kg



0 dB = 0.287 W/kg

Meas.71 Body Plane with Back Side 15mm on 56 Channel in Bluetooth mode with Antenna7

Date: 2023.07.09

Communication System Band: BT; Frequency: 2458 MHz;Duty Cycle: 1:1.305

Medium parameters used (interpolated): f = 2458 MHz; σ = 1.787 S/m; ε_r = 39.261; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.3℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.78, 7.78, 7.78); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch56/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0564 W/kg

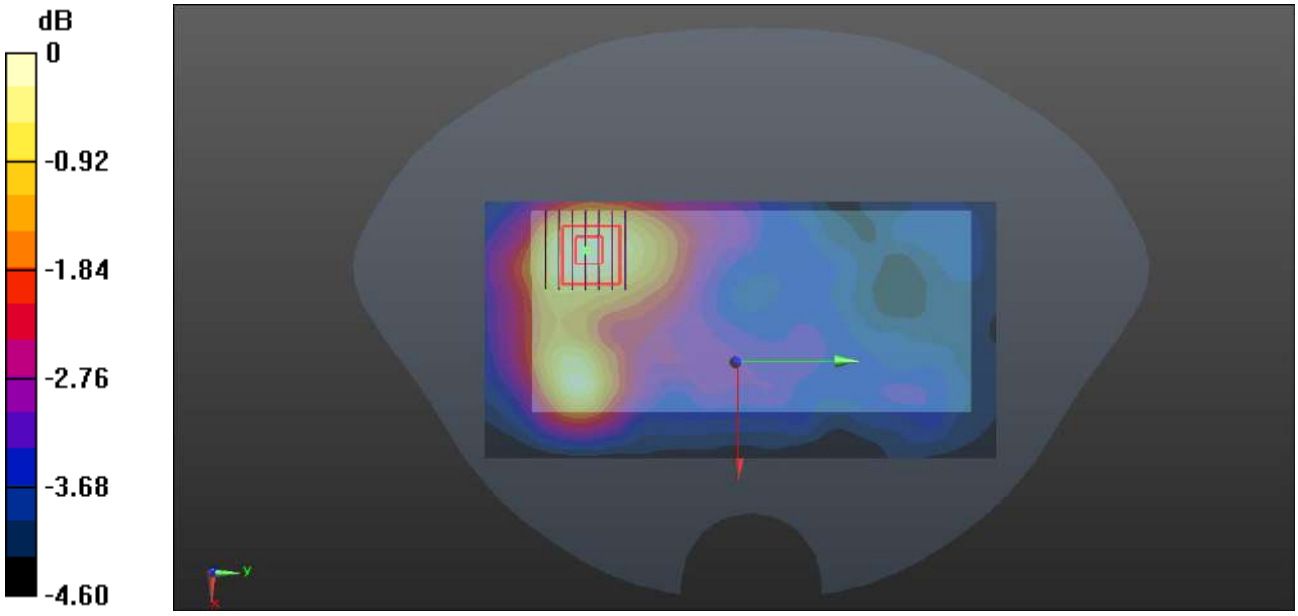
Ch56/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.398 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.0740 W/kg

SAR(1 g) = 0.052 W/kg; SAR(10 g) = 0.039 W/kg

Maximum value of SAR (measured) = 0.0561 W/kg



0 dB = 0.0561 W/kg

Meas.72 Body Plane with Back Side 10mm on 56 Channel in Bluetooth mode with Antenna7

Date: 2023.07.09

Communication System Band: BT; Frequency: 2458 MHz;Duty Cycle: 1:1.305

Medium parameters used (interpolated): f = 2458 MHz; σ = 1.787 S/m; ε_r = 39.261; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.3℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.78, 7.78, 7.78); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2023.03.20
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch56/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0935 W/kg

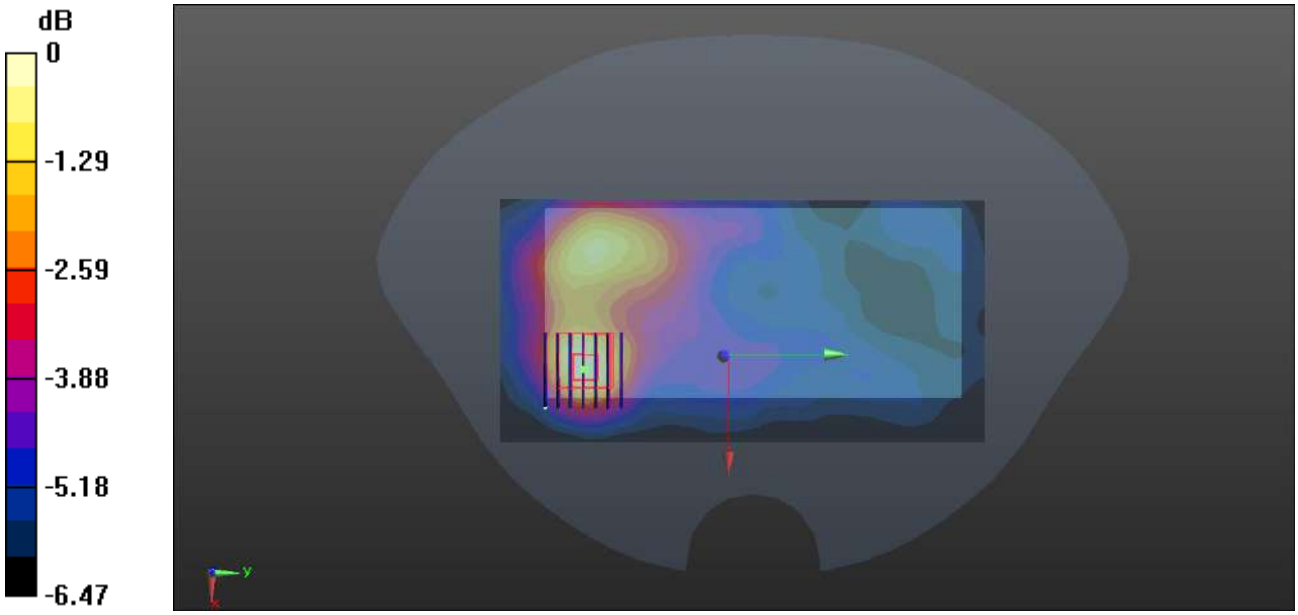
Ch56/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.581 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.156 W/kg

SAR(1 g) = 0.084 W/kg; SAR(10 g) = 0.053 W/kg

Maximum value of SAR (measured) = 0.0900 W/kg



0 dB = 0.0900 W/kg

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2360557-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “BL-SZ2360557-AS.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “BL-SZ2360557-AC.pdf”.

Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the “inspection and testing dedicated stamp” or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--END OF REPORT--