SAR TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.

FOR

Mobile Phone

ISSUED TO
Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

Report No.:	BL-SZ21B0947-701
EUT Name:	Mobile Phone
Model Name:	2201116TG
Brand Name:	Redmi
FCC ID:	2AFZZ16TG
Test Standard:	FCC 47 CFR Part 2.1093 (refer section 3.1)
Maximum SAR:	Head (1 g): 1.08 W/kg Body-worn (1 g): 1.08 W/kg Hotspot (1 g): 1.08 W/kg Specific (10 g): 2.68 W/kg
Test Conclusion:	Pass
Test Date:	Dec. 03, 2021 ~ Dec. 31, 2021
Date of Issue:	Dec. 31, 2021

Tested by: Xu Rui
Date: Dec. 31, 2021

Approved by: Wei Yanquan
(Chief Engineer)
Date: Dec. 31, 2021

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Revision History

Version	Issue Date	Revisions Content
Rev. 01	Dec. 31, 2021	Initial Issue
Rev. 02	Dec. 31, 2021	Update IMEI number in section 2.4
Rev. 03	Dec. 31, 2021	Added body-worn data in signature page and section 3.3 & 10.1

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1 GENERAL INFORMATION

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100
Fax Number	+86 755 6182 4271

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, 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.
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.3 Test Environment Condition

Ambient Temperature	21℃ to 23℃
Ambient Relative Humidity	36% to 47%
Ambient Pressure	100 KPa to 102 KPa

1.4 Announce

(1) The test report reference to the report template version v2.2.

(2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.

(3) The test report is invalid if there is any evidence and/or falsification.

(4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.

(5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.

(6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

(7) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2 PRODUCT INFORMATION

2.1 Applicant Information

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

2.2 Manufacturer Information

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

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	2201116TG
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	P1.1
Software Version	MIUI 13
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A
EUT ID	S18, S16, S15, S14
IMEI Number	S18: IMEI1#: 868202050061780; IMEI2#: 868202050061798
	S16: IMEI1#: 868202050059628; IMEI2#: 868202050059636
	S15: IMEI1#: 868202050060386; IMEI2#: 868202050060394
	S14: IMEI1#: 868208050062523; IMEI2#: 868208050062531
Note1: EUT ID is used to identify the test sample in the lab internally. Note2: It is performed to test SAR with the EUT S18, S16 and conducted power with the EUT S15, S14.	

2.5 Ancillary Equipment

Please refer the document “BL-SZ21B0947-AW EUT external photo.pdf”.

Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/900/1800/1900 MHz 3G Network WCDMA/HSDPA/HSUPA/DC-HSDPA Band 1/2/4/5/8 4G Network LTE FDD Band 1/2/3/4/5/7/8/12/13/17/20/26/28/32/66 LTE TDD Band 38/40/41 LTE CA Uplink (UL): CA_3C, CA_7C, CA_38C, CA_40C, CA_41C LTE CA Downlink (DL): CA_20A_32A Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40) 5G WIFI 802.11a, 802.11n(HT20/40) and 802.11ac(VHT20/40/80) U-NII-1/2A/2C/3, GPS, GLONASS, Galileo, BDS, FM receiver, NFC
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, 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	RX: 859 ~ 894 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: ~ 2180 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	
	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: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna		
DTM	Support		

Hotspot Function	Support	
Power Reduction	Support	
Exposure Category	General Population/Uncontrolled exposure	
EUT Stage	Portable Device	
Product	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 8.7.		

3 SUMMARY OF TEST RESULT

3.1 Test Standards

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

3.2 Device Category and SAR Limit

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

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

Table of Exposure Limits:

Body Position	SAR Value (W/Kg)	
	General Population/ Uncontrolled Exposure	Occupational/ 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 (1 g Value)

Band	Maximum Scaled SAR (W/kg)			Maximum Report SAR (W/kg)		
	Head	Body-worn	Hotspot	Head	Body-worn	Hotspot
GSM 850	0.73	0.45	0.45	1.08	0.70	1.08
GSM 1900	0.73	0.45	0.49			
WCDMA Band 2	1.03	0.29	0.43			
WCDMA Band 4	0.80	0.73	0.98			
WCDMA Band 5	0.65	0.49	0.49			
LTE Band 2	0.72	0.46	0.64			
LTE Band 4	0.89	**0.70**	0.89			
LTE Band 5	0.71	0.46	0.46			
LTE Band 7	0.68	0.48	0.48			
LTE Band 12	0.57	0.23	0.23			
LTE Band 13	0.31	0.27	0.27			
LTE Band 26	0.70	0.44	0.44			
LTE Band 66	0.92	0.51	0.65			
LTE Band 38	1.00	0.46	0.50			
LTE Band 41	**1.08**	0.37	0.39			
CA_7C	0.63	/	0.40			
CA_38C	0.89	/	0.46			
CA_41C	0.96	/	0.39			
2.4G WLAN	0.52	0.11	0.11			
5.2G WLAN	/	**0.70**	**1.08**			
5.3G WLAN	0.63	/	/			
5.6G WLAN	0.77	/	/			
5.8G WLAN	0.70	0.44	0.57			
Bluetooth	0.14	0.02	0.02			
Limit (W/kg)	1.6			1.6		
Verdict	PASS					

Note: This device supports both LTE Band 17 and Band 12. Since the supported frequency span for LTE Band 17 falls completely within the supports frequency span for LTE Band 12, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE Band 12.

3.3.2 Highest Specific SAR (10 g Value)

Band	Maximum Scaled SAR (W/kg)	Maximum Report SAR (W/kg)
	Specific 10g	
WCDMA Band 2	1.70	**2.68**
WCDMA Band 4	2.60	
LTE Band 2	1.63	
LTE Band 4	**2.68**	
LTE Band 7	1.81	
LTE Band 66	1.73	
5.3G WLAN	1.79	
5.6G WLAN	1.57	
Limit (W/kg)	4.0	4.0
Verdict	Pass	

Note: The highest simultaneous SAR please refer section 12.

3.4 Test Uncertainty

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

The maximum 1 g SAR for the EUT in this report is 1.079 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 2.675 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:

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

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

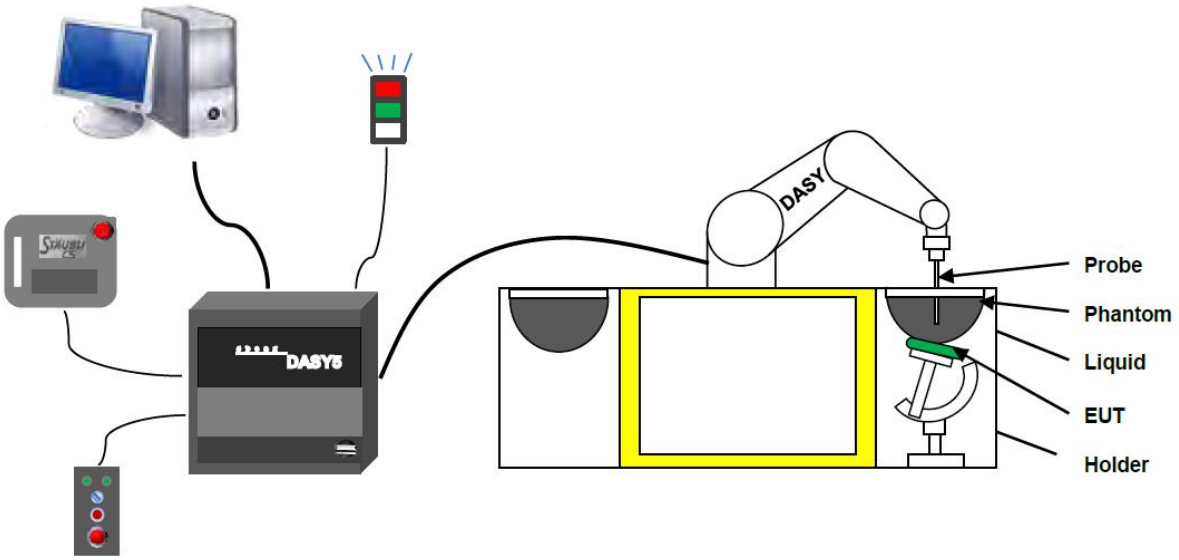
$$\mathbf{SAR} = \frac{\boldsymbol{\sigma}\mathbf{E}^2}{\boldsymbol{\rho}}$$

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: 7607 with following specifications is used.

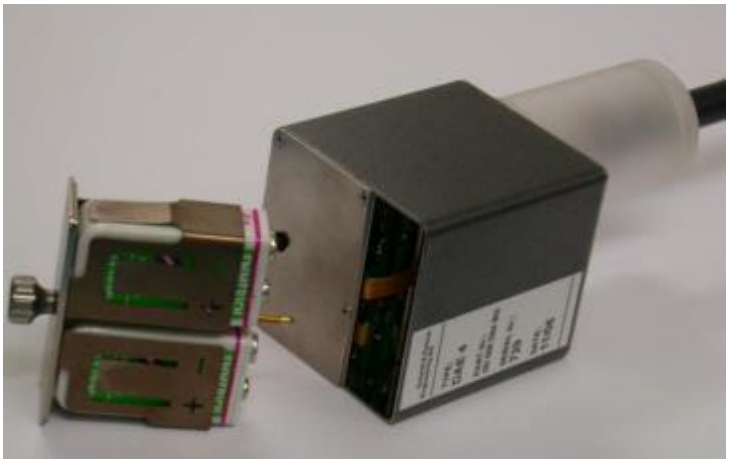
Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to 6 GHz; Linearity: ± 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

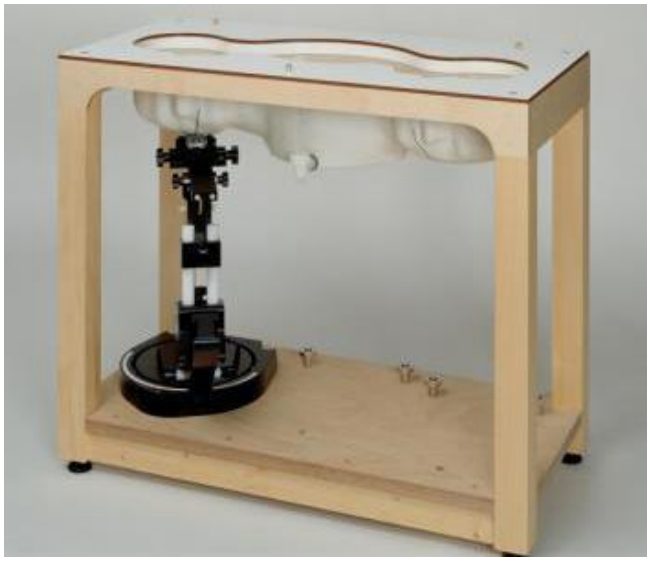
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an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

Photo of Phantom SN1857

Photo of Phantom SN1859

Serial Number	Material	Length	Height
SN 1857 SAM1	Vinylester, glass fiber reinforced	1000	500
SN 1859 SAM2	Vinylester, glass fiber reinforced	1000	500

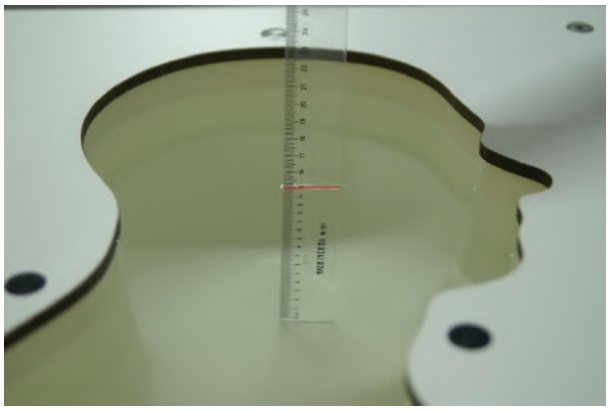
4.2.6 Device Holder

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 and the theoretical Conductivity/Permittivity.

Head (Reference IEEE1528)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ε
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.4	40.0
2450	55.0	0	0	0.1	0	44.9	1.80	39.2
2600	54.9	0	0	0.1	0	45.0	1.96	39.0
Frequency (MHz)	Water (%)	Hexyl Carbitol (%)			Triton X-100 (%)		Conductivity σ (S/m)	Permittivity ε
5200	62.52	17.24			17.24		4.66	36.0
5800	62.52	17.24			17.24		5.27	35.3
Body (From instrument manufacturer)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ε
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2
900	50.8	48.2	0	0.9	0.1	0	1.05	55.0
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0.1	0	31.3	1.95	52.7
2600	68.2	0	0	0.1	0	31.7	2.16	52.5
Frequency(MHz)	Water	DGBE (%)			Salt (%)		Conductivity σ (S/m)	Permittivity ε
5200	78.60	21.40			/		5.54	47.86
5800	78.50	21.40			0.1		6.0	48.20

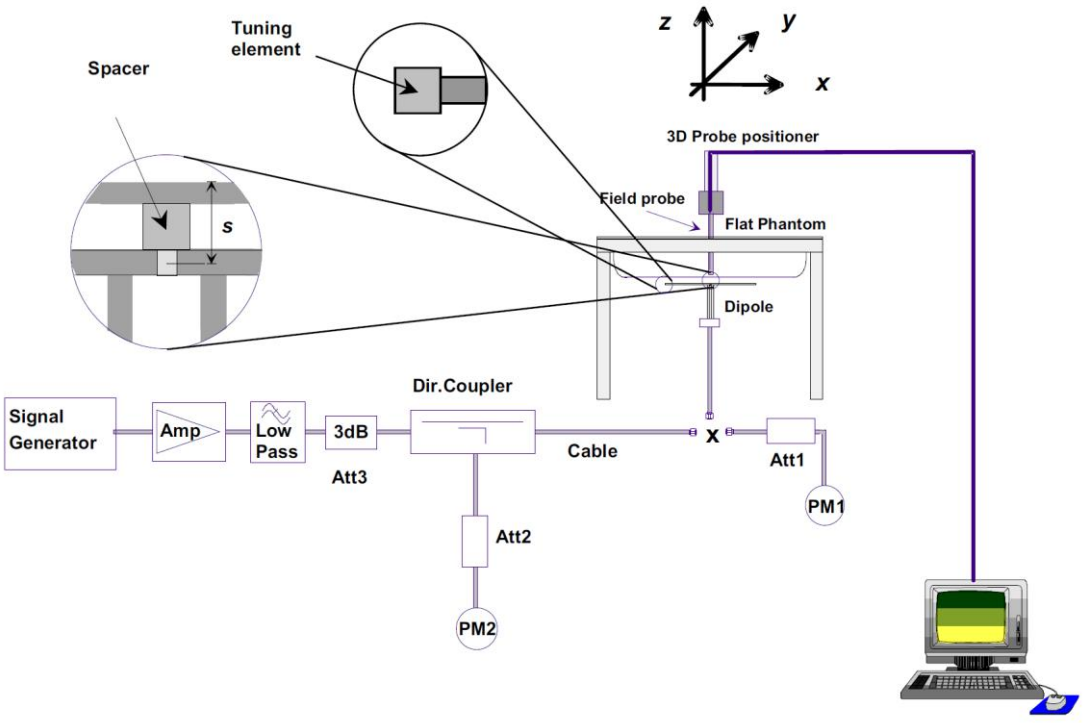
5 SYSTEM VERIFICATION

5.1 Purpose of System Check

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

5.2 System Check Setup

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



6 TEST POSITION CONFIGURATIONS

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

6.1 Head Exposure Conditions

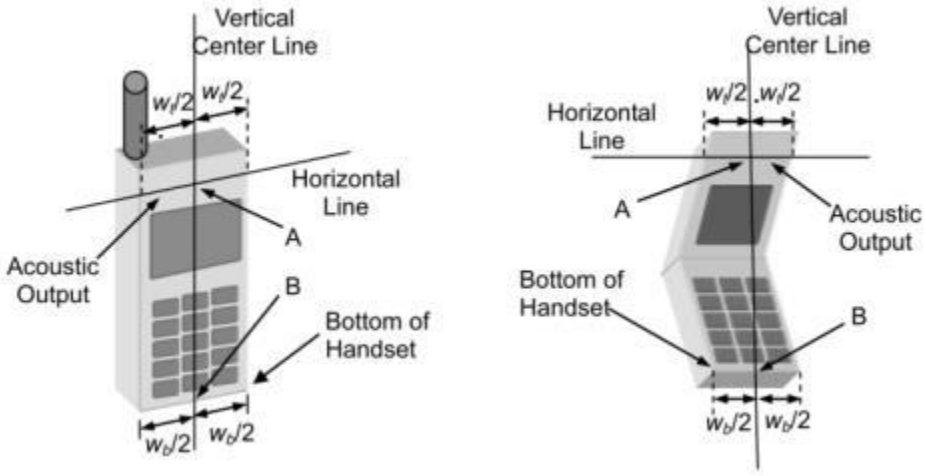
Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2013 using the SAM phantom illustrated as below.

6.1.1 Two Imaginary Lines on the Handset

(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.

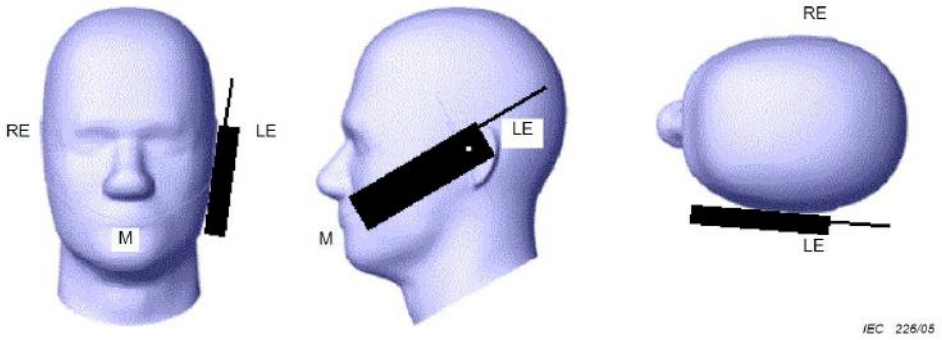
(c) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical center line is not necessarily parallel to the front face of the handset,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

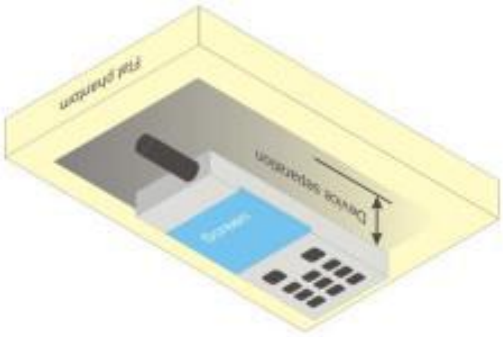
(b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.

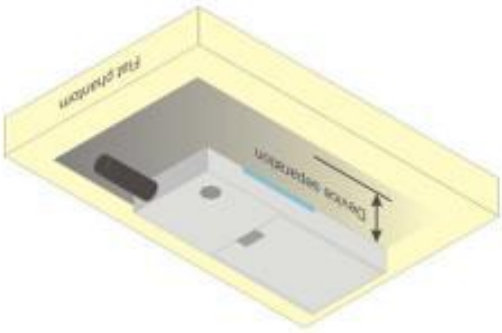
6.2 Body-worn Position Conditions

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.

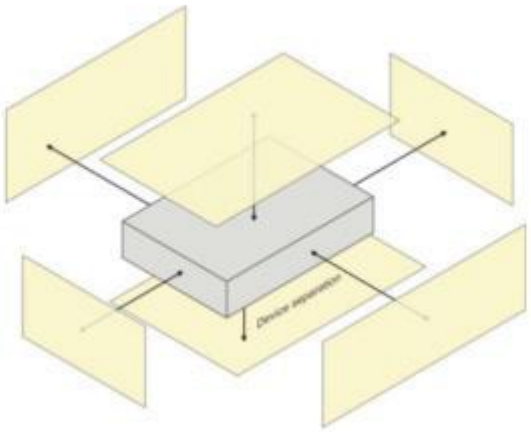
Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice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

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6.

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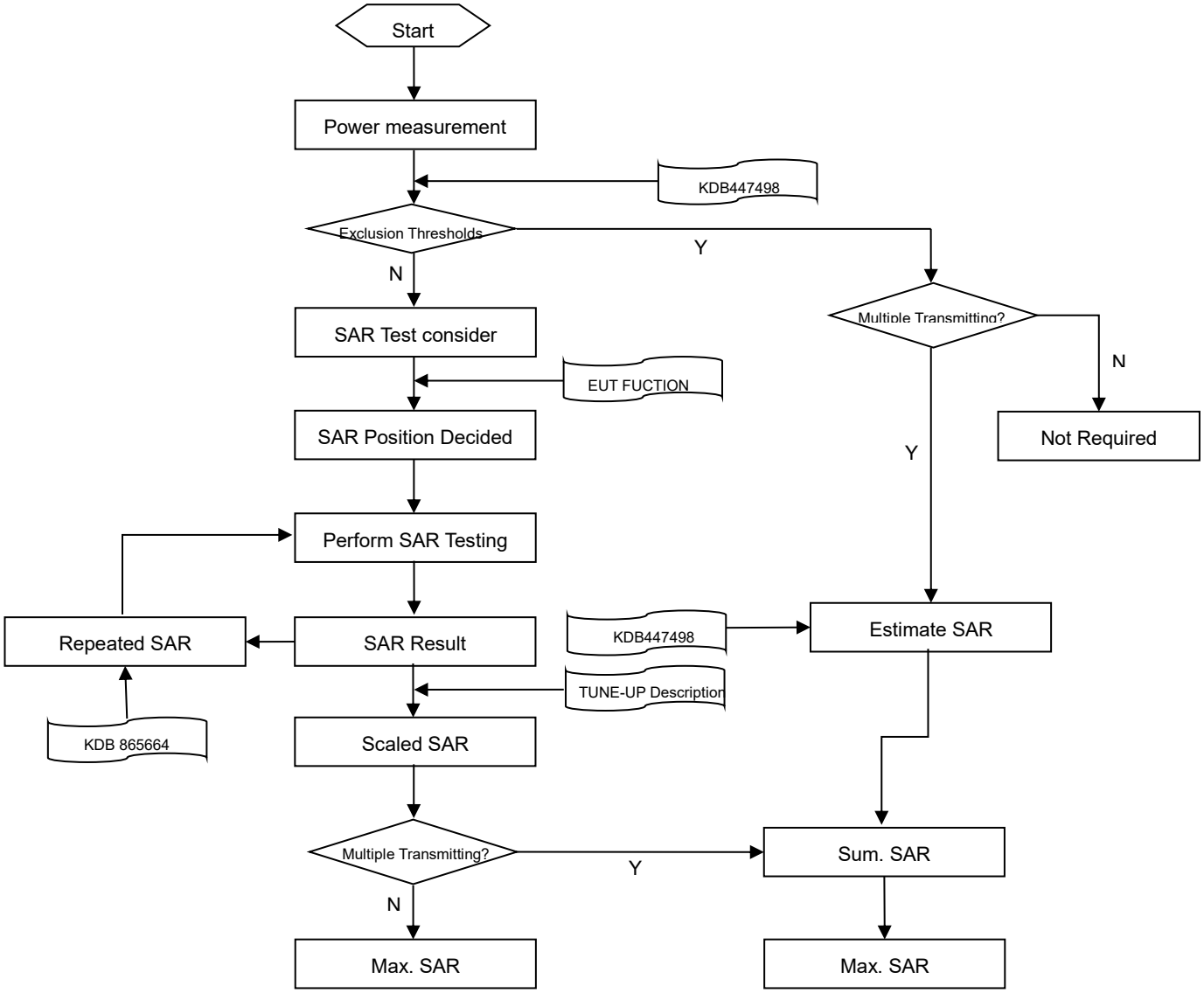
7 MEASUREMENT PROCEDURE

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 CONDUCTED RF OUPUT POWER

8.1 GSM

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

8.2 WCDMA

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

8.3 LTE

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

8.4 Intra-Band Uplink CA Power

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

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

8.5 WIFI

8.5.1 2.4G WIFI Full&DSI4

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	15.47	16.00	Yes
		6	2437	**15.52**	16.00	Yes
		11	2462	14.70	16.00	Yes
	802.11g	1	2412	18.75	19.50	No
		6	2437	18.82	19.50	No
		11	2462	18.23	19.50	No
	802.11n(HT20)	1	2412	17.78	18.50	No
		6	2437	17.82	18.50	No
		11	2462	17.12	18.50	No
	802.11n(HT40)	3	2422	16.73	17.50	No
		6	2437	16.92	17.50	No
		9	2452	16.34	17.50	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) 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 = 0.805 * (89.13mW/112.20mW) = 0.639 W/Kg, so 2.4G OFDM SAR test is not required.

8.5.2 2.4G WIFI DSI1

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	15.47	16.00	Yes
		6	2437	**15.52**	16.00	Yes
		11	2462	14.70	16.00	Yes
	802.11g	1	2412	17.56	18.00	No
		6	2437	17.67	18.00	No
		11	2462	17.10	18.00	No
	802.11n(HT20)	1	2412	17.43	18.00	No
		6	2437	17.56	18.00	No
		11	2462	17.02	18.00	No
	802.11n(HT40)	3	2422	16.45	17.50	No
		6	2437	16.65	17.50	No
		9	2452	16.19	17.50	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) 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 = 0.805 * (63.10mW/63.10mW) = 0.805, so 2.4G OFDM SAR test is not required.

8.5.3 5G WIFI Full&DSI4

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	**18.31**	18.50	Yes
		44	5220	18.28	18.50	Yes
		48	5240	18.30	18.50	Yes
	802.11n(HT20)	36	5180	17.18	17.50	No
		44	5220	17.12	17.50	No
		48	5240	17.12	17.50	No
	802.11n(HT40)	38	5190	16.11	16.50	No
		46	5230	15.58	16.50	No
	802.11ac(VHT20)	36	5180	16.66	17.80	No
		44	5220	16.62	17.80	No
		48	5240	16.64	17.80	No
	802.11ac(VHT40)	38	5190	15.58	16.00	No
		46	5230	16.13	16.00	No
	802.11ac(VHT80)	42	5210	14.78	15.00	No
5.3 (5.25~5.35)	802.11a	52	5260	**17.85**	18.50	Yes
		60	5300	17.83	18.50	Yes
		64	5320	17.82	18.50	Yes
	802.11n(HT20)	52	5260	16.66	17.50	No
		60	5300	16.64	17.50	No
		64	5320	16.62	17.50	No
	802.11n(HT40)	54	5270	15.59	16.50	No
		62	5310	15.64	16.50	No
	802.11ac(VHT20)	52	5260	16.64	17.80	No
		60	5300	16.69	17.80	No
		64	5320	16.65	17.80	No
	802.11ac(VHT40)	54	5270	15.62	16.00	No
		62	5310	15.63	16.00	No
	802.11ac(VHT80)	58	5290	14.33	15.00	No
5.6 (5.47~5.725)	802.11a	100	5500	17.73	18.50	Yes
		116	5580	**17.75**	18.50	No
		120	5600	17.62	18.50	No
		140	5700	17.74	18.50	No
		144	5720	17.66	18.50	No
	802.11n(HT20)	100	5500	16.64	17.50	No
		116	5580	16.54	17.50	No
		140	5700	16.64	17.50	No
		144	5720	16.59	17.50	No
	802.11n(HT40)	102	5510	15.59	16.50	No

		118	5590	15.54	16.50	No
		134	5670	15.59	16.50	No
		142	5710	15.65	16.50	No
	802.11ac(VHT20)	100	5500	16.67	17.80	No
		116	5580	16.60	17.80	No
		140	5700	16.65	17.80	No
		144	5720	16.64	17.80	No
	802.11ac(VHT40)	102	5510	15.58	16.00	No
		118	5590	15.55	16.00	No
		134	5670	15.63	16.00	No
		142	5710	15.62	16.00	No
	802.11ac(VHT80)	106	5530	14.32	15.00	No
		122	5610	14.34	15.00	No
		138	5690	14.38	15.00	No
5.8 (5.725~5.850)	802.11a	149	5745	16.78	18.00	Yes
		157	5785	**16.84**	18.00	Yes
		165	5825	16.72	18.00	Yes
	802.11n(HT20)	149	5745	15.71	17.00	No
		157	5785	15.74	17.00	No
		165	5825	15.73	17.00	No
	802.11n(HT40)	151	5755	14.70	16.00	No
		159	5795	14.69	16.00	No
	802.11ac(VHT20)	149	5745	15.68	17.20	No
		157	5785	15.69	17.20	No
		165	5825	15.73	17.20	No
	802.11ac(VHT40)	151	5755	15.64	16.00	No
		159	5795	15.63	16.00	No
	802.11ac(VHT80)	155	5775	13.35	15.00	No
Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.						

8.5.4 5G WIFI DSI1

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	11.31	12.00	No
		40	5200	11.38	12.00	No
		48	5240	11.24	12.00	No
	802.11n(HT20)	36	5180	12.23	13.00	No
		44	5220	12.15	13.00	No
		48	5240	12.37	13.00	No
	802.11n(HT40)	38	5190	11.72	12.00	No
		46	5230	11.30	12.00	No
	802.11ac(VHT20)	36	5180	12.71	13.80	Yes
		40	5200	12.66	13.80	Yes
		48	5240	12.62	13.80	Yes
	802.11ac(VHT40)	38	5190	11.80	12.00	No
		46	5230	11.65	12.00	No
	802.11ac(VHT80)	42	5210	10.40	11.00	No
5.3 (5.25~5.35)	802.11a	52	5260	10.84	12.00	No
		60	5300	10.85	12.00	No
		64	5320	10.85	12.00	No
	802.11n(HT20)	52	5260	11.72	13.00	No
		60	5300	11.75	13.00	No
		64	5320	11.62	13.00	No
	802.11n(HT40)	54	5270	11.10	12.00	No
		62	5310	11.18	12.00	No
	802.11ac(VHT20)	52	5260	**12.79**	13.80	Yes
		60	5300	12.77	13.80	Yes
		64	5320	12.52	13.80	Yes
	802.11ac(VHT40)	54	5270	11.19	12.00	No
		62	5310	11.25	12.00	No
	802.11ac(VHT80)	58	5290	9.71	11.00	No
5.6 (5.47~5.725)	802.11a	100	5500	10.91	12.00	No
		116	5580	11.01	12.00	No
		120	5600	10.70	12.00	No
		140	5700	10.80	12.00	No
		144	5720	10.99	12.00	No
	802.11n(HT20)	100	5500	11.72	13.00	No
		116	5580	11.89	13.00	No
		140	5700	11.81	13.00	No
		144	5720	11.67	13.00	No
	802.11n(HT40)	102	5510	11.23	12.00	No

		118	5590	11.16	12.00	No
		134	5670	10.98	12.00	No
		142	5710	10.91	12.00	No
	802.11ac(VHT20)	100	5500	12.67	13.80	Yes
		116	5580	**12.81**	13.80	Yes
		140	5700	12.81	13.80	Yes
		144	5720	12.69	13.80	No
	802.11ac(VHT40)	102	5510	11.24	12.00	No
		118	5590	11.12	12.00	No
		134	5670	11.25	12.00	No
		142	5710	11.23	12.00	No
	802.11ac(VHT80)	106	5530	9.78	11.00	No
		122	5610	9.72	11.00	No
		138	5690	9.83	11.00	No
5.8 (5.725~5.850)	802.11a	149	5745	9.95	11.50	No
		157	5785	10.06	11.50	No
		165	5825	10.13	11.50	No
	802.11n(HT20)	149	5745	10.97	12.50	No
		157	5785	11.15	12.50	No
		165	5825	10.95	12.50	No
	802.11n(HT40)	151	5755	9.99	11.50	No
		159	5795	9.94	11.50	No
	802.11ac(VHT20)	149	5745	11.65	13.20	Yes
		157	5785	**11.71**	13.20	Yes
		165	5825	11.52	13.20	Yes
	802.11ac(VHT40)	151	5755	11.23	12.00	No
		159	5795	11.18	12.00	No
	802.11ac(VHT80)	155	5775	9.28	11.00	No
Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.						

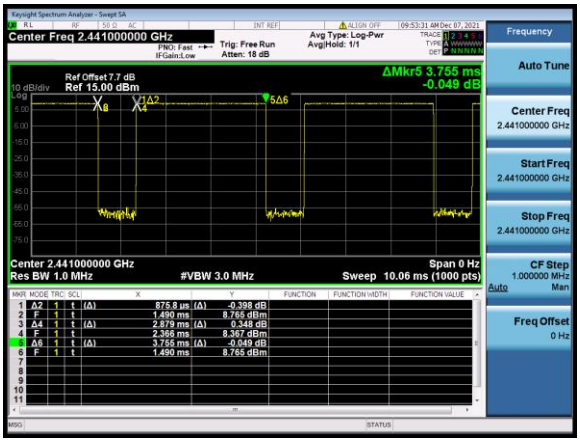
8.6 Bluetooth

Mode	GFSK			π/4-DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Average Power (dBm)	9.11	**9.87**	9.52	6.12	6.42	6.23
Tune-Up Limit (dBm)	11.00			8.00		
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Average Power (dBm)	6.03	6.38	6.05	/	/	/
Tune-Up Limit (dBm)	8.00			/		
Mode	BLE-1Mbps			BLE-2Mbps		
Channel	0	19	39	0	19	39
Frequency (MHz)	2402	2440	2480	2402	2440	2480
Average Power (dBm)	0.10	1.20	1.30	0.10	1.10	1.50
Tune-Up Limit (dBm)	2.00			2.00		

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

Duty Cycle

GFSK



8.7 Power Reduction List

1. This mobile phone device supports the receiver detection mechanism. This device uses the receiver to indicate whether the user is making a call in head or body.
2. When there is a voice call (including VOIP) and the audio is actively routed through the earpiece receiver, which indicating the head exposure condition it will trigger the head exposure reduced the power.
3. When there is a voice call (including VOIP), and the audio is actively routed through the headset or speaker, which indicating the body exposure conditions will trigger the body 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 Antenna Reduced power level table

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

WLAN Antenna Reduced power level table

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

WWAN Antenna Power table

Mode	Antenna	WWAN Antenna		
		Full Power	Receiver on	Receiver off
			Head	Hotspot&Specific
		DSI5	DSI1	DSI4
GSM 850	Ant4	34.00	33.00	34.00
GPRS850 1 Tx Slot	Ant4	34.00	33.00	34.00
GPRS850 2 Tx Slots	Ant4	32.50	32.50	32.50
GPRS850 3 Tx Slots	Ant4	30.50	30.50	30.50
GPRS850 4 Tx Slots	Ant4	29.50	29.50	29.50
EGPRS850 1 Tx Slot	Ant4	28.00	27.00	28.00
EGPRS850 2 Tx Slots	Ant4	27.00	27.00	27.00
EGPRS850 3 Tx Slots	Ant4	25.00	25.00	25.00
EGPRS850 4 Tx Slots	Ant4	24.00	24.00	24.00
GSM 850	Ant0	34.00	34.00	34.00
GPRS850 1 Tx Slot	Ant0	34.00	34.00	34.00
GPRS850 2 Tx Slots	Ant0	32.50	32.50	32.50
GPRS850 3 Tx Slots	Ant0	30.50	30.50	30.50
GPRS850 4 Tx Slots	Ant0	29.50	29.50	29.50
EGPRS850 1 Tx Slot	Ant0	28.00	28.00	28.00
EGPRS850 2 Tx Slots	Ant0	27.00	27.00	27.00
EGPRS850 3 Tx Slots	Ant0	25.00	25.00	25.00
EGPRS850 4 Tx Slots	Ant0	24.00	24.00	24.00
GSM 1900	Ant4	31.00	29.00	30.00
GPRS1900 1 Tx Slot	Ant4	31.00	29.00	30.00
GPRS1900 2 Tx Slots	Ant4	30.00	28.00	30.00
GPRS1900 3 Tx Slots	Ant4	28.00	26.00	28.00
GPRS1900 4 Tx Slots	Ant4	27.00	25.00	27.00
EGPRS1900 1 Tx Slot	Ant4	27.50	25.50	26.50
EGPRS1900 2 Tx Slots	Ant4	26.50	24.50	25.50
EGPRS1900 3 Tx Slots	Ant4	24.50	22.00	23.50

EGPRS1900 4 Tx Slots	Ant4	23.00	20.00	22.00
GSM 1900	Ant0	31.00	31.00	31.00
GPRS1900 1 Tx Slot	Ant0	31.00	31.00	31.00
GPRS1900 2 Tx Slots	Ant0	30.00	30.00	30.00
GPRS1900 3 Tx Slots	Ant0	28.00	28.00	28.00
GPRS1900 4 Tx Slots	Ant0	27.00	27.00	27.00
EGPRS1900 1 Tx Slot	Ant0	27.50	27.50	27.50
EGPRS1900 2 Tx Slots	Ant0	26.50	26.50	26.50
EGPRS1900 3 Tx Slots	Ant0	24.50	24.50	24.50
EGPRS1900 4 Tx Slots	Ant0	23.00	23.00	23.00
WCDMA Band2 AMR	Ant4	25.50	20.00	20.00
WCDMA Band2 RMC	Ant4	25.50	20.00	20.00
HSDPA Subtest-1	Ant4	24.50	19.00	19.00
HSDPA Subtest-2	Ant4	24.50	19.00	19.00
HSDPA Subtest-3	Ant4	24.00	19.00	19.00
HSDPA Subtest-4	Ant4	24.00	19.00	19.00
DC-HSDPA Subtest-1	Ant4	24.50	19.00	19.00
DC-HSDPA Subtest-2	Ant4	24.50	19.00	19.00
DC-HSDPA Subtest-3	Ant4	24.00	19.00	19.00
DC-HSDPA Subtest-4	Ant4	24.00	19.00	19.00
HSUPA Subtest-1	Ant4	22.50	18.00	18.00
HSUPA Subtest-2	Ant4	22.50	18.00	18.00
HSUPA Subtest-3	Ant4	23.50	19.00	19.00
HSUPA Subtest-4	Ant4	22.00	18.00	18.00
HSUPA Subtest-5	Ant4	23.50	19.00	19.00
WCDMA Band2 AMR	Ant0	25.50	25.50	22.00
WCDMA Band2 RMC	Ant0	25.50	25.50	22.00
HSDPA Subtest-1	Ant0	24.50	24.50	21.00
HSDPA Subtest-2	Ant0	24.50	24.50	21.00
HSDPA Subtest-3	Ant0	24.00	24.00	20.50
HSDPA Subtest-4	Ant0	24.00	24.00	20.50

DC-HSDPA Subtest-1	Ant0	24.50	24.50	21.00
DC-HSDPA Subtest-2	Ant0	24.50	24.50	21.00
DC-HSDPA Subtest-3	Ant0	24.00	24.00	20.50
DC-HSDPA Subtest-4	Ant0	24.00	24.00	20.50
HSUPA Subtest-1	Ant0	22.00	22.00	19.00
HSUPA Subtest-2	Ant0	22.50	22.50	19.50
HSUPA Subtest-3	Ant0	23.50	23.50	20.50
HSUPA Subtest-4	Ant0	22.00	22.00	19.00
HSUPA Subtest-5	Ant0	23.50	23.50	20.50
WCDMA Band4 AMR	Ant4	25.50	20.00	20.50
WCDMA Band4 RMC	Ant4	25.50	20.00	20.50
HSDPA Subtest-1	Ant4	24.50	20.00	20.50
HSDPA Subtest-2	Ant4	24.50	20.00	20.50
HSDPA Subtest-3	Ant4	24.00	19.50	20.00
HSDPA Subtest-4	Ant4	24.00	19.50	20.00
DC-HSDPA Subtest-1	Ant4	24.50	20.00	20.50
DC-HSDPA Subtest-2	Ant4	24.50	20.00	20.50
DC-HSDPA Subtest-3	Ant4	24.00	19.50	20.00
DC-HSDPA Subtest-4	Ant4	24.00	19.50	20.00
HSUPA Subtest-1	Ant4	23.00	19.00	19.50
HSUPA Subtest-2	Ant4	23.00	19.00	19.50
HSUPA Subtest-3	Ant4	23.50	20.00	20.50
HSUPA Subtest-4	Ant4	22.00	18.50	19.00
HSUPA Subtest-5	Ant4	23.50	20.00	20.50
WCDMA Band4 AMR	Ant0	25.50	25.50	22.00
WCDMA Band4 RMC	Ant0	25.50	25.50	22.00
HSDPA Subtest-1	Ant0	24.50	25.00	21.00
HSDPA Subtest-2	Ant0	24.50	25.00	21.00
HSDPA Subtest-3	Ant0	24.00	24.50	20.50
HSDPA Subtest-4	Ant0	24.00	24.50	20.50
DC-HSDPA Subtest-1	Ant0	24.50	25.00	21.00

DC-HSDPA Subtest-2	Ant0	24.50	25.00	21.00
DC-HSDPA Subtest-3	Ant0	24.00	24.50	20.50
DC-HSDPA Subtest-4	Ant0	24.00	24.50	20.50
HSUPA Subtest-1	Ant0	22.50	22.50	20.50
HSUPA Subtest-2	Ant0	23.00	23.00	20.50
HSUPA Subtest-3	Ant0	23.50	24.00	21.50
HSUPA Subtest-4	Ant0	22.00	22.50	20.50
HSUPA Subtest-5	Ant0	23.50	24.00	21.50
WCDMA Band5 AMR	Ant4	25.50	23.00	24.50
WCDMA Band5 RMC	Ant4	25.50	23.00	24.50
HSDPA Subtest-1	Ant4	24.50	23.00	24.50
HSDPA Subtest-2	Ant4	24.50	23.00	24.50
HSDPA Subtest-3	Ant4	24.00	22.50	24.00
HSDPA Subtest-4	Ant4	24.00	22.50	24.00
DC-HSDPA Subtest-1	Ant4	24.50	23.00	24.50
DC-HSDPA Subtest-2	Ant4	24.50	23.00	24.50
DC-HSDPA Subtest-3	Ant4	24.00	22.50	24.00
DC-HSDPA Subtest-4	Ant4	24.00	22.50	24.00
HSUPA Subtest-1	Ant4	23.00	22.00	22.00
HSUPA Subtest-2	Ant4	22.50	22.00	22.00
HSUPA Subtest-3	Ant4	23.50	23.00	23.50
HSUPA Subtest-4	Ant4	22.00	21.50	22.00
HSUPA Subtest-5	Ant4	23.50	23.00	23.50
WCDMA Band5 AMR	Ant0	25.50	25.50	25.50
WCDMA Band5 RMC	Ant0	25.50	25.50	25.50
HSDPA Subtest-1	Ant0	24.50	24.50	24.50
HSDPA Subtest-2	Ant0	24.50	24.50	24.50
HSDPA Subtest-3	Ant0	24.00	24.00	24.00
HSDPA Subtest-4	Ant0	24.00	24.00	24.00
DC-HSDPA Subtest-1	Ant0	24.50	24.50	24.50
DC-HSDPA Subtest-2	Ant0	24.50	24.50	24.50

DC-HSDPA Subtest-3	Ant0	24.00	24.00	24.00
DC-HSDPA Subtest-4	Ant0	24.00	24.00	24.00
HSUPA Subtest-1	Ant0	22.50	22.50	22.50
HSUPA Subtest-2	Ant0	22.50	22.50	22.50
HSUPA Subtest-3	Ant0	23.50	23.50	23.50
HSUPA Subtest-4	Ant0	22.00	22.00	22.00
HSUPA Subtest-5	Ant0	23.50	23.50	23.50
LTE Band2	Ant4	25.50	20.50	20.50
LTE Band2	Ant0	25.50	25.50	23.50
LTE Band4	Ant4	25.50	21.50	21.00
LTE Band4	Ant0	25.50	25.50	22.50
LTE Band5	Ant4	25.50	23.50	25.50
LTE Band5	Ant0	25.50	25.50	25.50
LTE Band7	Ant4	25.00	19.00	20.00
LTE Band7	Ant0	25.00	25.00	21.00
LTE Band12	Ant4	25.50	25.50	25.50
LTE Band12	Ant0	25.50	25.50	25.50
LTE Band13	Ant4	25.50	25.50	25.50
LTE Band13	Ant0	25.50	25.50	25.50
LTE Band17	Ant4	25.50	25.50	25.50
LTE Band17	Ant0	25.50	25.50	25.50
LTE Band26	Ant4	25.50	25.50	25.50
LTE Band26	Ant0	25.50	25.50	25.50
LTE Band66	Ant4	25.50	21.00	22.50
LTE Band66	Ant0	25.50	25.50	21.00
LTE Band38	Ant4	25.50	24.00	24.00
LTE Band38	Ant0	25.50	25.50	23.50
LTE Band41	Ant4	24.50	23.00	22.00
LTE Band41	Ant0	25.50	25.50	23.5

WLAN Reduced power level table

Mode	WLAN Antenna		
	Full Power	Receiver on	Receiver off
		Head	Body&Limbs
	DSI5	DSI1	DSI4
2.4G WLAN 802.11b	16.00	16.00	16.00
2.4G WLAN 802.11g	19.50	18.00	19.50
2.4G WLAN 802.11n20	18.50	18.00	18.50
2.4G WLAN 802.11n40	17.50	17.50	17.50
5.2&5.3G WLAN 802.11a	18.50	12.00	18.50
5.2&5.3G WLAN 802.11n20	17.50	13.00	17.50
5.2&5.3G WLAN 802.11n40	16.50	12.00	16.50
5.2&5.3G WLAN 802.11ac20	17.80	13.80	17.80
5.2&5.3G WLAN 802.11ac40	16.00	12.00	16.00
5.2&5.3G WLAN 802.11ac80	15.00	11.00	15.00
5.6G WLAN 802.11a	18.50	12.00	18.50
5.6G WLAN 802.11n20	17.50	13.00	17.50
5.6G WLAN 802.11n40	16.50	12.00	16.50
5.6G WLAN 802.11ac20	17.80	13.80	17.80
5.6G WLAN 802.11ac40	16.00	12.00	16.00
5.6G WLAN 802.11ac80	15.00	11.00	15.00
5.8G WLAN 802.11a	18.00	11.50	18.00
5.8G WLAN 802.11n20	17.00	12.50	17.00
5.8G WLAN 802.11n40	16.00	11.50	16.00
5.8G WLAN 802.11ac20	17.20	13.20	17.20
5.8G WLAN 802.11ac40	16.00	12.00	16.00
5.8G LAN 802.11ac80	15.00	11.00	15.00
Bluetooth	11.00	11.00	11.00

9 TEST EXCLUSION CONSIDERATION

Please refer the document “BL-SZ21B0945-AA.pdf”.

9.1 SAR Test Exclusion Consideration Table

According with FCC KDB 447498 D01, Appendix A, <SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm> Table, this Device SAR test configurations consider as following :

ANT0

Band	Mode	Max. Peak Power		Test Position Configurations					
		dBm	mW	Head	Front/ Back	Left Edge	Right Edge	Top Edge	Bottom Edge
GSM 850	Distance to User			<5mm	<5mm	<5mm	17mm	150mm	<5mm
	Data	34.00	2511.89	Yes	Yes	Yes	No	No	Yes
GSM 1900	Distance to User			<5mm	<5mm	<5mm	17mm	150mm	<5mm
	Data	31.00	1258.93	Yes	Yes	Yes	No	No	Yes
WCDMA Band 2	Distance to User			<5mm	<5mm	<5mm	17mm	150mm	<5mm
	RMC	25.50	354.81	Yes	Yes	Yes	No	No	Yes
WCDMA Band 4	Distance to User			<5mm	<5mm	<5mm	17mm	150mm	<5mm
	RMC	25.50	354.81	Yes	Yes	Yes	No	No	Yes
WCDMA Band 5	Distance to User			<5mm	<5mm	<5mm	17mm	150mm	<5mm
	RMC	25.50	354.81	Yes	Yes	Yes	No	No	Yes
LTE Band 2	Distance to User			<5mm	<5mm	<5mm	17mm	150mm	<5mm
	QPSK	25.50	354.81	Yes	Yes	Yes	No	No	Yes
LTE Band 4	Distance to User			<5mm	<5mm	<5mm	17mm	150mm	<5mm
	QPSK	25.50	354.81	Yes	Yes	Yes	No	No	Yes
LTE Band 5	Distance to User			<5mm	<5mm	<5mm	17mm	150mm	<5mm
	QPSK	25.50	354.81	Yes	Yes	Yes	No	No	Yes
LTE Band 7	Distance to User			<5mm	<5mm	<5mm	17mm	150mm	<5mm
	QPSK	25.00	316.23	Yes	Yes	Yes	No	No	Yes
LTE Band 12	Distance to User			<5mm	<5mm	<5mm	17mm	150mm	<5mm
	QPSK	25.50	354.81	Yes	Yes	Yes	No	No	Yes
LTE Band 13	Distance to User			<5mm	<5mm	<5mm	17mm	150mm	<5mm
	QPSK	25.50	354.81	Yes	Yes	Yes	No	No	Yes
LTE Band 17	Distance to User			<5mm	<5mm	<5mm	17mm	150mm	<5mm
	QPSK	25.50	354.81	Yes	Yes	Yes	No	No	Yes
LTE Band 26	Distance to User			<5mm	<5mm	<5mm	17mm	150mm	<5mm
	QPSK	25.50	354.81	Yes	Yes	Yes	No	No	Yes
LTE Band 66	Distance to User			<5mm	<5mm	<5mm	17mm	150mm	<5mm
	QPSK	25.50	354.81	Yes	Yes	Yes	No	No	Yes
LTE Band 38	Distance to User			<5mm	<5mm	<5mm	17mm	150mm	<5mm
	QPSK	25.50	354.81	Yes	Yes	Yes	No	No	Yes
LTE Band 41	Distance to User			<5mm	<5mm	<5mm	17mm	150mm	<5mm
	QPSK	25.50	354.81	Yes	Yes	Yes	No	No	Yes

ANT4

Band	Mode	Max. Peak Power		Test Position Configurations					
		dBm	mW	Head	Front/ Back	Left Edge	Right Edge	Top Edge	Bottom Edge
GSM 850	Distance to User			<5mm	<5mm	27mm	<5mm	<5mm	151mm
	Data	34.00	2511.89	Yes	Yes	No	Yes	Yes	No
GSM 1900	Distance to User			<5mm	<5mm	27mm	<5mm	<5mm	151mm
	Data	31.00	1258.93	Yes	Yes	No	Yes	Yes	No
WCDMA Band 2	Distance to User			<5mm	<5mm	27mm	<5mm	<5mm	151mm
	RMC	25.50	354.81	Yes	Yes	No	Yes	Yes	No
WCDMA Band 4	Distance to User			<5mm	<5mm	27mm	<5mm	<5mm	151mm
	RMC	25.50	354.81	Yes	Yes	No	Yes	Yes	No
WCDMA Band 5	Distance to User			<5mm	<5mm	27mm	<5mm	<5mm	151mm
	RMC	25.50	354.81	Yes	Yes	No	Yes	Yes	No
LTE Band 2	Distance to User			<5mm	<5mm	27mm	<5mm	<5mm	151mm
	QPSK	25.50	354.81	Yes	Yes	No	Yes	Yes	No
LTE Band 4	Distance to User			<5mm	<5mm	27mm	<5mm	<5mm	151mm
	QPSK	25.50	354.81	Yes	Yes	No	Yes	Yes	No
LTE Band 5	Distance to User			<5mm	<5mm	27mm	<5mm	<5mm	151mm
	QPSK	25.50	354.81	Yes	Yes	No	Yes	Yes	No
LTE Band 7	Distance to User			<5mm	<5mm	27mm	<5mm	<5mm	151mm
	QPSK	25.00	316.23	Yes	Yes	No	Yes	Yes	No
LTE Band 12	Distance to User			<5mm	<5mm	27mm	<5mm	<5mm	151mm
	QPSK	25.50	354.81	Yes	Yes	No	Yes	Yes	No
LTE Band 13	Distance to User			<5mm	<5mm	27mm	<5mm	<5mm	151mm
	QPSK	25.50	354.81	Yes	Yes	No	Yes	Yes	No
LTE Band 17	Distance to User			<5mm	<5mm	27mm	<5mm	<5mm	151mm
	QPSK	25.50	354.81	Yes	Yes	No	Yes	Yes	No
LTE Band 26	Distance to User			<5mm	<5mm	27mm	<5mm	<5mm	151mm
	QPSK	25.50	354.81	Yes	Yes	No	Yes	Yes	No
LTE Band 66	Distance to User			<5mm	<5mm	27mm	<5mm	<5mm	151mm
	QPSK	25.50	354.81	Yes	Yes	No	Yes	Yes	No
LTE Band 38	Distance to User			<5mm	<5mm	27mm	<5mm	<5mm	151mm
	QPSK	25.50	354.81	Yes	Yes	No	Yes	Yes	No
LTE Band 41	Distance to User			<5mm	<5mm	27mm	<5mm	<5mm	151mm
	QPSK	24.50	281.84	Yes	Yes	No	Yes	Yes	No

ANT 6

Band	Mode	Max. Peak Power		Test Position Configurations					
		dBm	mW	Head	Front/ Back	Left Edge	Right Edge	Top Edge	Bottom Edge
WLAN 2.4 G	Distance to User			<5mm	<5mm	<5mm	59mm	<5mm	153mm
	802.11b	20.50	112.20	Yes	Yes	Yes	Yes	Yes	Yes
	802.11g	19.50	89.13	No	No	No	No	No	No
	802.11n(HT20)	18.50	70.49	No	No	No	No	No	No
	802.11n(HT40)	17.50	56.23	No	No	No	No	No	No
WLAN 5.2 G	Distance to User			<5mm	<5mm	<5mm	59mm	<5mm	153mm
	802.11a	18.50	70.49	Yes	Yes	Yes	Yes	Yes	Yes
	802.11n(HT20)	17.50	56.23	No	No	No	No	No	No
	802.11n(HT40)	16.50	44.67	No	No	No	No	No	No
	802.11ac(VHT20)	17.80	60.26	No	No	No	No	No	No
	802.11ac(VHT40)	16.00	39.81	No	No	No	No	No	No
	802.11ac(VHT80)	15.00	31.62	No	No	No	No	No	No
WLAN 5.3 G	Distance to User			<5mm	<5mm	<5mm	59mm	<5mm	153mm
	802.11a	18.50	70.49	Yes	Yes	Yes	Yes	Yes	Yes
	802.11n(HT20)	17.50	56.23	No	No	No	No	No	No
	802.11n(HT40)	16.50	44.67	No	No	No	No	No	No
	802.11ac(VHT20)	17.80	60.26	No	No	No	No	No	No
	802.11ac(VHT40)	16.00	39.81	No	No	No	No	No	No
	802.11ac(VHT80)	15.00	31.62	No	No	No	No	No	No
WLAN 5.6 G	Distance to User			<5mm	<5mm	<5mm	59mm	<5mm	153mm
	802.11a	18.50	70.49	No	No	No	No	No	No
	802.11n(HT20)	17.50	56.23	No	No	No	No	No	No
	802.11n(HT40)	16.50	44.67	No	No	No	No	No	No
	802.11ac(VHT20)	17.80	60.26	Yes	Yes	Yes	Yes	Yes	Yes
	802.11ac(VHT40)	16.00	39.81	No	No	No	No	No	No
	802.11ac(VHT80)	15.00	31.62	No	No	No	No	No	No
WLAN 5.8 G	Distance to User			<5mm	<5mm	<5mm	59mm	<5mm	153mm
	802.11a	18.00	63.10	Yes	Yes	Yes	Yes	Yes	Yes
	802.11n(HT20)	17.00	50.12	No	No	No	No	No	No
	802.11n(HT40)	16.00	39.81	No	No	No	No	No	No
	802.11ac(VHT20)	17.20	52.48	No	No	No	No	No	No
	802.11ac(VHT40)	16.00	39.81	No	No	No	No	No	No
	802.11ac(VHT80)	15.00	31.62	No	No	No	No	No	No
Bluetooth	Distance to User			<5mm	<5mm	<5mm	59mm	<5mm	153mm
	BR+EDR	11.00	12.59	Yes	Yes	Yes	Yes	Yes	Yes
	BLE	2.00	1.58	No	No	No	No	No	No

Note:

1. Maximum power is the source-based time-average power and represents the maximum RF output power including tune-up tolerance among production units

2. Per KDB 447498 D01, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. Per KDB 447498 D01, standalone SAR test exclusion threshold is applied; If the distance of the antenna to the user is < 5mm, 5mm is used to determine SAR exclusion threshold
4. Per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
   a. f(GHz) is the RF channel transmit frequency in GHz
   b. Power and distance are rounded to the nearest mW and mm before calculation
   c. The result is rounded to one decimal place for comparison
   d. For < 50 mm distance, we just calculate mW of the exclusion threshold value (3.0) to do compare.

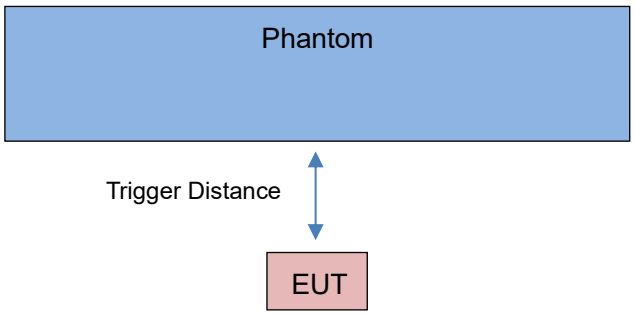
   This formula is [3.0] / [√f(GHz)] ·[(min. test separation distance, mm)] = exclusion threshold of mW.
5. Per KDB 447498 D01, at 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following
   a. [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·(f(MHz)/150)] mW, at 100 MHz to 1500 MHz
   b. [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz
6. Per KDB 941225 D01, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA /HSUPA /DC-HSDPA output power is < 0.25dB higher than RMC12.2Kbps, or reported SAR with RMC 12.2kbps setting is ≤ 1.2W/kg, HSDPA/HSUPA/DC-HSDPA SAR evaluation can be excluded.
7. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion.8. For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4dB higher than those measured at the lowest data rate
8. Per KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions.
   a. When KDB Publication 447498 D01 SAR test exclusion applies to the OFDM configuration.
   b. 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.
9. Per KDB 248227 D01 SAR is not required for the following U-NII-1 and U-NII-2A bands conditions.
   a. 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.
   b. When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, each band is tested independently for SAR.

9.2 PROXIMITY SENSOR TRIGGERING TEST

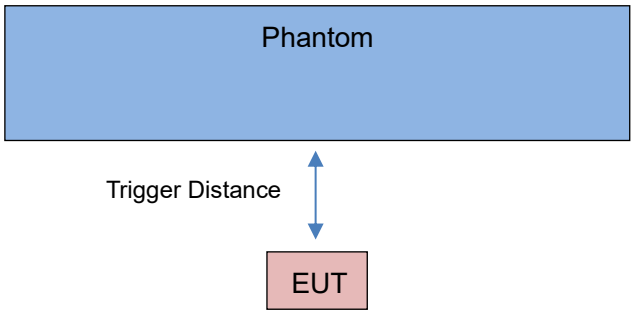
9.2.1 Procedures for determining proximity sensor distance

Proximity sensor triggering distance testing was performed, EUT moving further away from the phantom and EUT moving toward the phantom were both assessed, and the shortest triggering distances were reported and used for SAR assessment.

9.2.2 proximity sensor channel



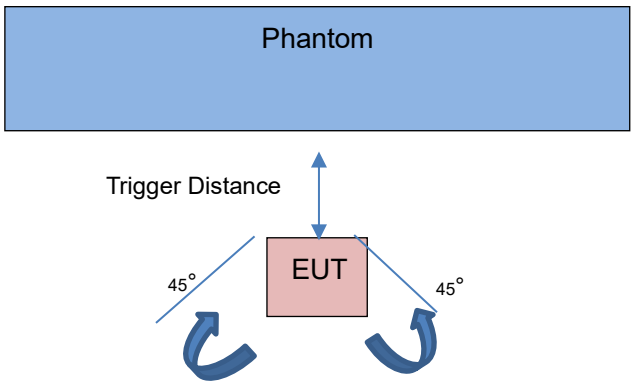
Distance in mm	12	13	14	15	16	17	18	19	20
Front Side	On	On	On	On	On	Off	Off	Off	Off
Back Side	On	On	On	On	On	Off	Off	Off	Off
Top Edge	On	On	On	On	On	Off	Off	Off	Off
Bootom Edge	On	On	On	On	On	Off	Off	Off	Off
Note: Power reduction is only applicable for ANT0&ANT4									



Distance in mm	3	4	5	6	7	8	9	10	11
Left Edge	On	On	On	Off	Off	Off	Off	Off	Off
Right Edge	On	On	On	Off	Off	Off	Off	Off	Off
Note: Power reduction is only applicable for ANT0&ANT4									

9.2.3 Procedures for determining EUT tilt angle influences to proximity sensor triggering

The influence of EUT tilt angles to proximity sensor channel triggering was determined by positioning each EUT edge that contains a transmitting antenna 0&4, perpendicular to the flat phantom, at 16 mm separation for the front side, 16 mm separation for the back side, 6 mm separation for the left edge, 6 mm separation for the right edge, and 16 mm separation for the top edge, and 16 mm separation for the bottom edge.
Rotating the tablet around the edge next to the phantom in $\leqslant$ 10° increments until the tablet is $\pm$ 45° from the vertical position at 0°, and the maximum output power remains in the reduced mode.



For verification of compliance of power reduction scheme, additional SAR test with EUT transmitting at full RF power at a separation of "the triggering distance – 1 mm"

Ant0&4 of proximity sensor channel

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

10 TEST RESULT

10.1 GSM 850

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Head													
ANT4	DSI1	GPRS 2slots	Left Cheek	0	190	836.6	0.06	0.516	30.49	31.50	1.263	0.652	/
	DSI1		Left Tilt	0	190	836.6	-0.12	0.423	30.49	31.50	1.263	0.534	/
	DSI1		Right Cheek	0	190	836.6	-0.03	0.576	30.49	31.50	1.263	**0.728**	1#
	DSI1		Right Tilt	0	190	836.6	0.09	0.438	30.49	31.50	1.263	0.553	/
ANT0	DSI1	GPRS 2slots	Left Cheek	0	190	836.6	-0.06	0.256	32.34	32.50	1.038	0.266	/
	DSI1		Left Tilt	0	190	836.6	-0.17	0.134	32.34	32.50	1.038	0.139	/
	DSI1		Right Cheek	0	190	836.6	-0.10	0.284	32.34	32.50	1.038	0.295	/
	DSI1		Right Tilt	0	190	836.6	-0.10	0.161	32.34	32.50	1.038	0.167	/
Hotspot&Body-worn													
ANT4	DSI4	GPRS 2slots	Front Side	10	190	836.6	0.12	0.098	31.84	32.50	1.164	0.114	/
	DSI4		Back Side	10	190	836.6	-0.11	0.195	31.84	32.50	1.164	0.227	/
	DSI5		Right Edge	10	190	836.6	-0.13	0.311	31.84	32.50	1.164	0.362	/
	DSI4		Top Edge	10	190	836.6	0.08	0.270	31.84	32.50	1.164	0.314	/
ANT0	DSI4	GPRS 2slots	Front Side	10	190	836.6	0.15	0.251	32.34	32.50	1.038	0.260	/
	DSI4		Back Side	10	190	836.6	0.13	0.435	32.34	32.50	1.038	**0.451**	2#
	DSI4			10	128	824.2	0.02	0.421	32.22	32.50	1.067	0.449	/
	DSI4			10	251	848.8	-0.17	0.395	32.34	32.50	1.038	0.410	/
	DSI5		Left Edge	10	190	836.6	-0.01	0.247	32.34	32.50	1.038	0.256	/
	DSI4		Bottom Edge	10	190	836.6	-0.16	0.369	32.34	32.50	1.038	0.383	/

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

10.2 GSM 1900

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Head													
ANT4	DSI1	GPRS 2slots	Left Cheek	0	661	1880.0	0.00	0.386	26.99	28.00	1.263	0.488	/
	DSI1		Left Tilt	0	661	1880.0	0.13	0.517	26.99	28.00	1.263	0.653	/
	DSI1		Right Cheek	0	661	1880.0	0.00	0.508	26.99	28.00	1.263	0.642	/
	DSI1		Right Tilt	0	661	1880.0	0.17	0.581	26.99	28.00	1.263	**0.734**	3#
ANT0	DSI1	GPRS 2slots	Left Cheek	0	661	1880.0	0.05	0.058	29.52	30.00	1.118	0.065	/
	DSI1		Left Tilt	0	661	1880.0	-0.07	0.045	29.52	30.00	1.118	0.050	/
	DSI1		Right Cheek	0	661	1880.0	-0.11	0.066	29.52	30.00	1.118	0.074	/
	DSI1		Right Tilt	0	661	1880.0	0.02	0.054	29.52	30.00	1.118	0.060	/
Hotspot&Body-worn													
ANT4	DSI4	GPRS 2slots	Front Side	10	661	1880.0	0.14	0.177	29.35	30.00	1.163	0.206	/
	DSI4		Back Side	10	661	1880.0	0.15	0.220	29.35	30.00	1.163	0.256	/
	DSI5		Right Edge	10	661	1880.0	0.11	0.122	28.75	30.00	1.333	0.163	/
	DSI4		Top Edge	10	661	1880.0	-0.08	0.388	29.35	30.00	1.163	0.451	/
ANT0	DSI4	GPRS 2slots	Front Side	10	661	1880.0	0.02	0.199	29.52	30.00	1.118	0.223	/
	DSI4		Back Side	10	661	1880.0	-0.13	0.399	29.52	30.00	1.118	0.446	/
	DSI5		Left Edge	10	661	1880.0	-0.15	0.063	29.52	30.00	1.118	0.070	/
	DSI4		Bottom Edge	10	661	1880.0	-0.15	0.435	29.52	30.00	1.118	**0.486**	4#
P-Sensor													
ANT4	DSI5	GPRS 2slots	Front Side	15	661	1880.0	-0.07	0.111	28.75	30.00	1.333	0.148	/
	DSI5		Back Side	15	661	1880.0	-0.07	0.134	28.75	30.00	1.333	0.179	/
	DSI5		Top Edge	15	661	1880.0	-0.07	0.250	28.75	30.00	1.333	0.333	/

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

10.3WCDMA Band 2

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Head													
ANT4	DSI1	RMC	Left Cheek	0	9400	1880.0	-0.17	0.519	18.96	20.00	1.271	0.659	/
	DSI1		Left Tilt	0	9400	1880.0	0.13	0.625	18.96	20.00	1.271	0.794	/
	DSI1		Right Cheek	0	9400	1880.0	0.03	0.619	18.96	20.00	1.271	0.786	/
	DSI1		Right Tilt	0	9400	1880.0	0.08	0.801	18.96	20.00	1.271	1.018	/
	DSI1			0	9262	1852.4	-0.04	0.783	18.80	20.00	1.318	**1.032**	5#
	DSI1			0	9538	1907.6	-0.15	0.673	18.85	20.00	1.303	0.877	/
ANT0	DSI1	RMC	Left Cheek	0	9262	1852.4	0.16	0.092	24.61	25.50	1.227	0.113	/
	DSI1		Left Tilt	0	9262	1852.4	-0.01	0.073	24.61	25.50	1.227	0.090	/
	DSI1		Right Cheek	0	9262	1852.4	-0.01	0.103	24.61	25.50	1.227	0.126	/
	DSI1		Right Tilt	0	9262	1852.4	0.03	0.078	24.61	25.50	1.227	0.096	/
Hotspot&Body-worn													
ANT4	DSI4	RMC	Front Side	10	9400	1880.0	0.09	0.135	18.57	19.00	1.104	0.149	/
	DSI4		Back Side	10	9400	1880.0	0.12	0.160	18.57	19.00	1.104	0.177	/
	DSI5		Right Edge	10	9400	1880.0	0.07	0.281	23.84	25.50	1.466	0.412	/
	DSI4		Top Edge	10	9400	1880.0	0.06	0.345	18.07	19.00	1.239	**0.427**	6#
ANT0	DSI4	RMC	Front Side	10	9400	1880.0	-0.12	0.112	21.11	22.00	1.227	0.137	/
	DSI4		Back Side	10	9400	1880.0	0.16	0.238	21.11	22.00	1.227	0.292	/
	DSI5		Left Edge	10	9262	1852.4	-0.02	0.080	24.61	25.50	1.227	0.098	/
	DSI4		Bottom Edge	10	9400	1880.0	0.17	0.253	21.11	22.00	1.227	0.311	/
P-Sensor													
ANT4	DSI5	RMC	Front Side	15	9400	1880.0	-0.11	0.320	23.84	25.50	1.466	0.469	/
	DSI5		Back Side	15	9400	1880.0	0.08	0.400	23.84	25.50	1.466	0.586	/
	DSI5		Top Edge	15	9400	1880.0	0.15	0.592	23.84	25.50	1.466	0.868	/
ANT0	DSI5	RMC	Front Side	15	9262	1852.4	0.10	0.144	24.61	25.50	1.227	0.177	/
	DSI5		Back Side	15	9262	1852.4	0.12	0.300	24.61	25.50	1.227	0.368	/
	DSI5		Bottom Edge	15	9262	1852.4	-0.10	0.337	24.61	25.50	1.227	0.414	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Report SAR (W/kg)	Meas. No.
Specific													
ANT4	DSI4	RMC	Top Edge	0	9400	1880.0	-0.12	1.290	18.46	19.00	1.132	1.461	/
	DSI4		Left Tilt	0	9262	1852.4	0.07	1.400	18.15	19.00	1.216	**1.703**	7#
	DSI4		Right Cheek	0	9538	1907.6	0.06	1.330	18.41	19.00	1.146	1.524	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.4WCDMA Band 4

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Head													
ANT4	DSI1	RMC	Left Cheek	0	1412	1732.4	0.11	0.323	19.53	20.00	1.114	0.360	/
	DSI1		Left Tilt	0	1412	1732.4	0.09	0.445	19.53	20.00	1.114	0.496	/
	DSI1		Right Cheek	0	1412	1732.4	0.06	0.454	19.53	20.00	1.114	0.506	/
	DSI1		Right Tilt	0	1412	1732.4	-0.08	0.718	19.53	20.00	1.114	**0.800**	8#
ANT0	DSI1	RMC	Left Cheek	0	1412	1732.4	-0.17	0.186	24.92	25.50	1.143	0.213	/
	DSI1		Left Tilt	0	1412	1732.4	-0.03	0.140	24.92	25.50	1.143	0.160	/
	DSI1		Right Cheek	0	1412	1732.4	0.19	0.246	24.92	25.50	1.143	0.281	/
	DSI1		Right Tilt	0	1412	1732.4	-0.06	0.131	24.92	25.50	1.143	0.150	/
Hotspot&Body-worn													
ANT4	DSI4	RMC	Front Side	10	1412	1732.4	0.17	0.092	19.49	19.50	1.002	0.092	/
	DSI4		Back Side	10	1412	1732.4	0.03	0.123	19.49	19.50	1.002	0.123	/
	DSI5		Right Edge	10	1412	1732.4	-0.05	0.206	24.75	25.50	1.189	0.245	/
	DSI4		Top Edge	10	1412	1732.4	-0.16	0.203	19.49	19.50	1.002	0.203	/
ANT0	DSI4	RMC	Front Side	10	1412	1732.4	0.15	0.240	21.10	22.00	1.230	0.295	/
	DSI4		Back Side	10	1412	1732.4	0.08	0.594	21.10	22.00	1.230	0.731	/
	DSI5		Left Edge	10	1412	1732.4	-0.03	0.198	24.92	25.50	1.143	0.226	/
	DSI4		Bottom Edge	10	1412	1732.4	-0.03	0.742	21.10	22.00	1.230	0.913	/
	DSI4			10	1312	1712.4	-0.05	0.587	21.00	22.00	1.259	0.739	/
	DSI4			10	1513	1752.6	-0.09	0.794	21.10	22.00	1.230	**0.977**	9#
P-Sensor													
ANT4	DSI5	RMC	Front Side	15	1412	1732.4	-0.19	0.193	24.75	25.50	1.189	0.229	/
	DSI5		Back Side	15	1412	1732.4	-0.15	0.204	24.75	25.50	1.189	0.242	/
	DSI5		Top Edge	15	1412	1732.4	-0.15	0.410	24.75	25.50	1.189	0.487	/
ANT0	DSI5	RMC	Front Side	15	1412	1732.4	0.09	0.323	24.92	25.50	1.143	0.369	/
	DSI5		Back Side	15	1412	1732.4	-0.04	0.741	24.92	25.50	1.143	0.847	/
	DSI5		Bottom Edge	15	1412	1732.4	-0.01	0.874	24.92	25.50	1.143	0.999	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Report SAR (W/kg)	Meas. No.
Specific													
ANT4	DSI4	RMC	Top Edge	0	1412	1732.4	0.03	1.530	19.49	19.50	1.002	1.534	/
ANT0	DSI4	RMC	Back Side	0	1412	1732.4	-0.09	1.730	21.10	22.00	1.230	2.128	/
	DSI4		Bottom Edge	0	1412	1732.4	0.16	1.840	21.10	22.00	1.230	2.264	/
	DSI4			0	1312	1712.4	0.03	1.610	21.00	22.00	1.259	2.027	/
	DSI4			0	1513	1752.6	0.08	2.110	21.10	22.00	1.230	**2.596**	10#
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.5WCDMA Band 5

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Head													
ANT4	DSI1	RMC	Left Cheek	0	4182	836.4	-0.11	0.447	21.84	23.00	1.306	0.584	/
	DSI1		Left Tilt	0	4182	836.4	-0.08	0.381	21.84	23.00	1.306	0.498	/
	DSI1		Right Cheek	0	4182	836.4	-0.18	0.496	21.84	23.00	1.306	0.648	11#
	DSI1		Right Tilt	0	4182	836.4	-0.08	0.365	21.84	23.00	1.306	0.477	/
ANT0	DSI1	RMC	Left Cheek	0	4182	836.4	0.01	0.202	24.66	25.50	1.213	0.245	/
	DSI1		Left Tilt	0	4182	836.4	0.13	0.096	24.66	25.50	1.213	0.116	/
	DSI1		Right Cheek	0	4182	836.4	-0.06	0.247	24.66	25.50	1.213	0.300	/
	DSI1		Right Tilt	0	4182	836.4	-0.19	0.118	24.66	25.50	1.213	0.143	/
Hotspot&Body-worn													
ANT4	DSI4	RMC	Front Side	10	4182	836.4	0.08	0.160	23.05	24.50	1.396	0.223	/
	DSI4		Back Side	10	4182	836.4	0.00	0.265	23.05	24.50	1.396	0.370	/
	DSI5		Right Edge	10	4182	836.4	0.14	0.100	23.99	25.50	1.416	0.142	/
	DSI4		Top Edge	10	4182	836.4	0.09	0.165	23.05	24.50	1.396	0.230	/
ANT0	DSI4	RMC	Front Side	10	4182	836.4	-0.19	0.240	24.66	25.50	1.213	0.291	/
	DSI4		Back Side	10	4182	836.4	0.09	0.401	24.66	25.50	1.213	0.487	12#
	DSI5		Left Edge	10	4182	836.4	0.12	0.198	24.66	25.50	1.213	0.240	/
	DSI4		Bottom Edge	10	4182	836.4	-0.09	0.327	24.66	25.50	1.213	0.397	/
P-Sensor													
ANT4	DSI5	RMC	Front Side	15	4182	836.4	-0.19	0.119	23.99	25.50	1.416	0.168	/
	DSI5		Back Side	15	4182	836.4	-0.14	0.171	23.99	25.50	1.416	0.242	/
	DSI5		Top Edge	15	4182	836.4	0.10	0.104	23.99	25.50	1.416	0.147	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.6 LTE Band 2 (20MHz Bandwidth)

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Head															
ANT4	DSI1	QPSK	Left Cheek	0	18700	1860	1	Mid	0.09	0.452	18.23	19.00	1.194	0.540	/
	DSI1			0	18700	1860	50	Mid	0.12	0.464	18.21	19.00	1.199	0.557	/
	DSI1		Left Tilt	0	18700	1860	1	Mid	0.00	0.575	18.23	19.00	1.194	0.687	/
	DSI1			0	18700	1860	50	Mid	-0.03	0.563	18.21	19.00	1.199	0.675	/
	DSI1		Right Cheek	0	18700	1860	1	Mid	-0.07	0.602	18.23	19.00	1.194	0.719	/
	DSI1			0	18700	1860	50	Mid	-0.06	0.603	18.21	19.00	1.199	**0.723**	13#
	DSI1		Right Tilt	0	18700	1860	1	Mid	0.01	0.595	18.23	19.00	1.194	0.710	/
	DSI1			0	18700	1860	50	Mid	0.15	0.598	18.21	19.00	1.199	0.717	/
ANT0	DSI1	QPSK	Left Cheek	0	18700	1860	1	Mid	-0.09	0.087	24.53	25.50	1.250	0.109	/
	DSI1			0	18700	1860	50	Mid	0.15	0.069	23.64	24.50	1.219	0.084	/
	DSI1		Left Tilt	0	18700	1860	1	Mid	-0.08	0.068	24.53	25.50	1.250	0.085	/
	DSI1			0	18700	1860	50	Mid	0.03	0.053	23.64	24.50	1.219	0.065	/
	DSI1		Right Cheek	0	18700	1860	1	Mid	0.15	0.112	24.53	25.50	1.250	0.140	/
	DSI1			0	18700	1860	50	Mid	-0.06	0.088	23.64	24.50	1.219	0.107	/
	DSI1		Right Tilt	0	18700	1860	1	Mid	-0.02	0.075	24.53	25.50	1.250	0.094	/
	DSI1			0	18700	1860	50	Mid	-0.16	0.055	23.64	24.50	1.219	0.067	/
Hotspot&Body-worn															
ANT4	DSI4	QPSK	Front Side	10	18700	1860	1	Mid	-0.13	0.162	18.74	19.50	1.191	0.193	/
	DSI4			10	18700	1860	50	Mid	0.08	0.171	18.66	19.50	1.213	0.207	/
	DSI4		Back Side	10	18700	1860	1	Mid	0.10	0.188	18.74	19.50	1.191	0.224	/
	DSI4			10	18700	1860	50	Mid	0.08	0.193	18.66	19.50	1.213	0.234	/
	DSI5		Right Edge	10	18700	1860	1	Mid	-0.09	0.451	23.96	25.50	1.426	**0.643**	14#
	DSI5			10	18700	1860	50	Mid	-0.18	0.368	22.98	24.50	1.419	0.522	/
	DSI4		Top Edge	10	18700	1860	1	Mid	-0.17	0.339	18.74	19.50	1.191	0.404	/
	DSI4			10	18700	1860	50	Mid	0.06	0.345	18.66	19.50	1.213	0.419	/
ANT0	DSI4	QPSK	Front Side	10	18700	1860	1	Mid	0.04	0.174	22.63	23.50	1.222	0.213	/
	DSI4			10	18700	1860	50	Mid	0.08	0.172	22.62	23.50	1.225	0.211	/
	DSI4		Back Side	10	18700	1860	1	Mid	-0.17	0.377	22.63	23.50	1.222	0.461	/
	DSI4			10	18700	1860	50	Mid	-0.12	0.375	22.62	23.50	1.225	0.459	/
	DSI5		Left Edge	10	18700	1860	1	Mid	-0.10	0.094	24.53	25.50	1.250	0.118	/
	DSI5			10	18700	1860	50	Mid	-0.06	0.072	23.64	24.50	1.219	0.088	/
	DSI4		Bottom Edge	10	18700	1860	1	Mid	0.00	0.420	22.63	23.50	1.222	0.513	/
	DSI4			10	18700	1860	50	Mid	0.19	0.424	22.62	23.50	1.225	0.519	/
P-Sensor															
ANT4	DSI5	QPSK	Front Side	15	18700	1860	1	Mid	0.13	0.310	23.96	25.50	1.426	0.442	/
	DSI5			15	18700	1860	50	Mid	0.09	0.255	22.98	24.50	1.419	0.362	/
	DSI5		Back Side	15	18700	1860	1	Mid	-0.12	0.364	23.96	25.50	1.426	0.519	/
	DSI5			15	18700	1860	50	Mid	0.14	0.297	22.98	24.50	1.419	0.421	/
	DSI5		Top Edge	15	18700	1860	1	Mid	-0.19	0.637	23.96	25.50	1.426	0.908	/

	DSI5			15	18700	1860	50	Mid	-0.15	0.518	22.98	24.50	1.419	0.735	/
ANT0	DSI5	QPSK	Front Side	15	18700	1860	1	Mid	-0.05	0.138	24.53	25.50	1.250	0.173	/
	DSI5			15	18700	1860	50	Mid	0.04	0.106	23.64	24.50	1.219	0.129	/
	DSI5		Back Side	15	18700	1860	1	Mid	0.11	0.275	24.53	25.50	1.250	0.344	/
	DSI5			15	18700	1860	50	Mid	-0.16	0.215	23.64	24.50	1.219	0.262	/
	DSI5		Bottom Edge	15	18700	1860	1	Mid	-0.15	0.325	24.53	25.50	1.250	0.406	/
	DSI5			15	18700	1860	50	Mid	0.15	0.246	23.64	24.50	1.219	0.300	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10g Report SAR (W/kg)	Meas. No.
Specific															
ANT4	DSI4	QPSK	Top Edge	0	18700	1860	1	Mid	0.03	1.280	18.74	19.50	1.191	1.525	/
	DSI4			0	18700	1860	50	Mid	0.07	1.340	18.66	19.50	1.213	**1.626**	15#
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.7 LTE Band 4 (20MHz Bandwidth)

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Head															
ANT4	DSI1	QPSK	Left Cheek	0	20050	1720	1	High	-0.03	0.512	21.49	21.50	1.002	0.513	/
	DSI1			0	20050	1720	50	Mid	0.12	0.532	21.46	21.50	1.009	0.537	/
	DSI1		Left Tilt	0	20050	1720	1	Mid	-0.18	0.711	21.49	21.50	1.002	0.713	/
	DSI1			0	20050	1720	50	Mid	0.07	0.742	21.46	21.50	1.009	0.749	/
	DSI1		Right Cheek	0	20050	1720	1	Mid	0.12	0.682	21.49	21.50	1.002	0.684	/
	DSI1			0	20050	1720	50	Mid	0.00	0.711	21.46	21.50	1.009	0.718	/
	DSI1		Right Tilt	0	20050	1720	1	Mid	-0.01	0.832	21.49	21.50	1.002	0.834	/
	DSI1			0	20175	1732.5	1	Mid	0.10	0.781	21.24	21.50	1.062	0.829	/
	DSI1			0	20300	1745	1	Mid	0.00	0.811	21.35	21.50	1.035	0.840	/
	DSI1			0	20050	1720	50	Mid	0.19	0.881	21.46	21.50	1.009	**0.889**	16#
	DSI1			0	20175	1732.5	50	Mid	0.01	0.815	21.18	21.50	1.076	0.877	/
	DSI1			0	20300	1745	50	High	-0.09	0.860	21.48	21.50	1.005	0.864	/
	DSI1			0	20050	1720	100	Low	0.12	0.785	21.40	21.50	1.023	0.803	/
ANT0	DSI1	QPSK	Left Cheek	0	20175	1732.5	1	Mid	0.19	0.212	24.90	25.50	1.148	0.243	/
	DSI1			0	20175	1732.5	50	Mid	0.13	0.169	23.83	25.50	1.469	0.248	/
	DSI1		Left Tilt	0	20175	1732.5	1	Mid	0.19	0.152	24.90	25.50	1.148	0.175	/
	DSI1			0	20175	1732.5	50	Mid	0.06	0.124	23.83	25.50	1.469	0.182	/
	DSI1		Right Cheek	0	20175	1732.5	1	Mid	-0.07	0.271	24.90	25.50	1.148	0.311	/
	DSI1			0	20175	1732.5	50	Mid	-0.10	0.230	23.83	25.50	1.469	0.338	/
	DSI1		Right Tilt	0	20175	1732.5	1	Mid	0.14	0.146	24.90	25.50	1.148	0.168	/
	DSI1			0	20175	1732.5	50	Mid	-0.19	0.125	23.83	25.50	1.469	0.184	/
Hotspot&Body-worn															
ANT4	DSI4	QPSK	Front Side	10	20175	1732.5	1	Mid	0.02	0.095	20.59	21.00	1.099	0.104	/
	DSI4			10	20175	1732.5	50	Mid	-0.07	0.102	20.49	21.00	1.125	0.115	/
	DSI4		Back Side	10	20175	1732.5	1	Mid	0.10	0.107	20.59	21.00	1.099	0.118	/
	DSI4			10	20175	1732.5	50	Mid	-0.08	0.117	20.49	21.00	1.125	0.132	/
	DSI5		Right Edge	10	20175	1732.5	1	Mid	-0.14	0.164	24.97	25.50	1.130	0.185	/
	DSI5			10	20175	1732.5	50	Mid	-0.13	0.145	23.89	24.50	1.151	0.167	/
	DSI4		Top Edge	10	20175	1732.5	1	Mid	0.12	0.195	20.59	21.00	1.099	0.214	/
	DSI4			10	20175	1732.5	50	Mid	-0.03	0.217	20.49	21.00	1.125	0.244	/
ANT0	DSI4	QPSK	Front Side	10	20175	1732.5	1	Mid	0.05	0.247	21.74	22.50	1.191	0.294	/
	DSI4			10	20175	1732.5	50	Mid	0.02	0.237	21.69	22.50	1.205	0.286	/
	DSI4		Back Side	10	20175	1732.5	1	Mid	-0.01	0.587	21.74	22.50	1.191	0.699	/
	DSI4			10	20175	1732.5	50	Mid	-0.05	0.569	21.69	22.50	1.205	0.686	/
	DSI5		Left Edge	10	20175	1732.5	1	Mid	-0.10	0.171	24.90	25.50	1.148	0.196	/
	DSI5			10	20175	1732.5	50	Mid	0.00	0.129	23.83	25.50	1.469	0.189	/
	DSI4		Bottom Edge	10	20175	1732.5	1	Mid	-0.11	0.744	21.74	22.50	1.191	**0.886**	17#
	DSI4			10	20050	1720	1	Mid	0.10	0.711	21.70	22.50	1.202	0.855	/
	DSI4			10	20300	1745	1	Mid	-0.02	0.705	21.57	22.50	1.239	0.873	/

	DSI4			10	20175	1732.5	50	Mid	-0.11	0.726	21.69	22.50	1.205	0.875	/
	DSI4			10	20050	1720	50	Mid	-0.13	0.698	21.66	22.50	1.213	0.847	/
	DSI4			10	20300	1745	50	Mid	-0.02	0.705	21.62	22.50	1.225	0.863	/
	DSI4			10	20175	1732.5	100	Low	0.02	0.702	21.67	22.50	1.211	0.850	/
P-Sensor															
ANT4	DSI5	QPSK	Front Side	15	20175	1732.5	1	Mid	0.10	0.168	24.97	25.50	1.130	0.190	/
	DSI5			15	20175	1732.5	50	Mid	0.16	0.149	23.89	24.50	1.151	0.171	/
	DSI5		Back Side	15	20175	1732.5	1	Mid	0.06	0.171	24.97	25.50	1.130	0.193	/
	DSI5			15	20175	1732.5	50	Mid	0.08	0.163	23.89	24.50	1.151	0.188	/
	DSI5		Top Edge	15	20175	1732.5	1	Mid	0.14	0.345	24.97	25.50	1.130	0.390	/
	DSI5			15	20175	1732.5	50	Mid	-0.13	0.305	23.89	24.50	1.151	0.351	/
ANT0	DSI5	QPSK	Front Side	15	20175	1732.5	1	Mid	0.17	0.306	24.90	25.50	1.148	0.351	/
	DSI5			15	20175	1732.5	50	Mid	0.08	0.257	23.83	25.50	1.469	0.378	/
	DSI5		Back Side	15	20175	1732.5	1	Mid	0.17	0.698	24.90	25.50	1.148	0.801	/
	DSI5			15	20175	1732.5	50	Mid	0.05	0.605	23.83	25.50	1.469	0.889	/
	DSI5		Bottom Edge	15	20175	1732.5	1	Mid	0.19	0.849	24.90	25.50	1.148	0.975	/
	DSI5			15	20175	1732.5	50	Mid	-0.17	0.741	23.83	25.50	1.469	1.088	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10g Report SAR (W/kg)	Meas. No.
Specific															
ANT0	DSI4	QPSK	Back Side	0	20175	1732.5	1	Mid	0.06	1.830	21.74	22.50	1.191	2.180	/
	DSI4			0	20050	1720	1	Mid	0.17	1.710	21.70	22.50	1.202	2.056	/
	DSI4			0	20300	1745	1	Mid	-0.19	1.750	21.57	22.50	1.239	2.168	/
	DSI4			0	20175	1732.5	50	Mid	-0.18	1.930	21.69	22.50	1.205	2.326	/
	DSI4			0	20050	1720	50	Mid	-0.14	1.850	21.66	22.50	1.213	2.245	/
	DSI4			0	20300	1745	50	Mid	0.17	1.810	21.62	22.50	1.225	2.217	/
	DSI4			0	20175	1732.5	100	Low	-0.17	1.930	21.67	22.50	1.211	2.336	/
	DSI4		Bottom Edge	0	20175	1732.5	1	Mid	-0.07	1.950	21.74	22.50	1.191	2.323	/
	DSI4			0	20050	1720	1	Mid	-0.12	1.920	21.70	22.50	1.202	2.308	/
	DSI4			0	20300	1745	1	Mid	-0.16	1.850	21.57	22.50	1.239	2.292	/
	DSI4			0	20175	1732.5	50	Mid	-0.15	2.220	21.69	22.50	1.205	**2.675**	18#
	DSI4			0	20050	1720	50	Mid	0.04	2.110	21.66	22.50	1.213	2.560	/
	DSI4			0	20300	1745	50	Mid	-0.12	2.050	21.62	22.50	1.225	2.510	/
	DSI4			0	20175	1732.5	100	Low	0.00	2.120	21.67	22.50	1.211	2.566	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.8LTE Band 5 (10MHz Bandwidth)

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Head															
ANT4	DSI1	QPSK	Left Cheek	0	20525	836.5	1	Mid	-0.08	0.501	22.39	23.50	1.291	0.647	/
	DSI1			0	20525	836.5	25	Mid	0.11	0.494	22.38	23.50	1.294	0.639	/
	DSI1		Left Tilt	0	20525	836.5	1	Mid	-0.05	0.413	22.39	23.50	1.291	0.533	/
	DSI1			0	20525	836.5	25	Mid	-0.19	0.413	22.38	23.50	1.294	0.535	/
	DSI1		Right Cheek	0	20525	836.5	1	Mid	-0.07	0.538	22.39	23.50	1.291	0.695	/
	DSI1			0	20525	836.5	25	Mid	0.00	0.551	22.38	23.50	1.294	**0.713**	19#
	DSI1		Right Tilt	0	20525	836.5	1	Mid	-0.13	0.392	22.39	23.50	1.291	0.506	/
	DSI1			0	20525	836.5	25	Mid	-0.16	0.399	22.38	23.50	1.294	0.516	/
ANT0	DSI1	QPSK	Left Cheek	0	20525	836.5	1	Mid	0.11	0.191	24.64	25.50	1.219	0.233	/
	DSI1			0	20525	836.5	25	Mid	-0.01	0.149	23.69	24.50	1.205	0.180	/
	DSI1		Left Tilt	0	20525	836.5	1	Mid	-0.05	0.098	24.64	25.50	1.219	0.119	/
	DSI1			0	20525	836.5	25	Mid	-0.15	0.077	23.69	24.50	1.205	0.093	/
	DSI1		Right Cheek	0	20525	836.5	1	Mid	0.16	0.213	24.64	25.50	1.219	0.260	/
	DSI1			0	20525	836.5	25	Mid	-0.08	0.172	23.69	24.50	1.205	0.207	/
	DSI1		Right Tilt	0	20525	836.5	1	Mid	-0.06	0.113	24.64	25.50	1.219	0.138	/
	DSI1			0	20525	836.5	25	Mid	-0.11	0.095	23.69	24.50	1.205	0.114	/
Hotspot&Body-worn															
ANT4	DSI4	QPSK	Front Side	10	20600	844	1	Mid	0.04	0.190	24.44	25.50	1.276	0.243	/
	DSI4			10	20525	836.5	25	Mid	0.00	0.155	23.47	24.50	1.268	0.196	/
	DSI4		Back Side	10	20525	836.5	1	Mid	0.12	0.303	24.44	25.50	1.276	0.387	/
	DSI4			10	20525	836.5	25	Mid	-0.19	0.249	23.47	24.50	1.268	0.316	/
	DSI5		Right Edge	10	20525	836.5	1	Mid	-0.14	0.101	24.44	25.50	1.276	0.129	/
	DSI5			10	20525	836.5	25	Mid	-0.16	0.081	23.47	24.50	1.268	0.103	/
	DSI4		Top Edge	10	20525	836.5	1	Mid	-0.10	0.228	24.44	25.50	1.276	0.291	/
	DSI4			10	20525	836.5	25	Mid	-0.19	0.186	23.47	24.50	1.268	0.236	/
ANT0	DSI4	QPSK	Front Side	10	20525	836.5	1	Mid	0.15	0.228	24.64	25.50	1.219	0.278	/
	DSI4			10	20525	836.5	25	Mid	-0.06	0.186	23.69	24.50	1.205	0.224	/
	DSI4		Back Side	10	20525	836.5	1	Mid	-0.12	0.381	24.64	25.50	1.219	**0.464**	20#
	DSI4			10	20525	836.5	25	Mid	0.09	0.304	23.69	24.50	1.205	0.366	/
	DSI5		Left Edge	10	20525	836.5	1	Mid	0.13	0.192	24.64	25.50	1.219	0.234	/
	DSI5			10	20525	836.5	25	Mid	-0.15	0.154	23.69	24.50	1.205	0.186	/
	DSI4		Bottom Edge	10	20525	836.5	1	Mid	-0.14	0.330	24.64	25.50	1.219	0.402	/
	DSI4			10	20525	836.5	25	Mid	-0.03	0.267	23.69	24.50	1.205	0.322	/

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

10.9LTE Band 7 (20MHz Bandwidth)

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Head															
ANT4	DSI1	QPSK	Left Cheek	0	21100	2535	1	Mid	-0.05	0.349	18.57	19.00	1.104	0.385	/
	DSI1			0	21100	2535	50	Mid	-0.04	0.382	18.56	19.00	1.107	0.423	/
	DSI1		Left Tilt	0	21100	2535	1	Mid	0.15	0.409	18.57	19.00	1.104	0.452	/
	DSI1			0	21100	2535	50	Mid	-0.04	0.462	18.56	19.00	1.107	0.511	/
	DSI1		Right Cheek	0	21100	2535	1	Mid	0.08	0.592	18.57	19.00	1.104	0.654	/
	DSI1			0	21100	2535	50	Mid	0.14	0.613	18.56	19.00	1.107	0.678	21#
	DSI1		Right Tilt	0	21100	2535	1	Mid	-0.08	0.478	18.57	19.00	1.104	0.528	/
	DSI1			0	21100	2535	50	Mid	0.10	0.525	18.56	19.00	1.107	0.581	/
ANT0	DSI1	QPSK	Left Cheek	0	20850	2510	1	Mid	-0.19	0.247	24.07	25.00	1.239	0.306	/
	DSI1			0	20850	2510	50	Mid	-0.02	0.196	22.86	24.00	1.300	0.255	/
	DSI1		Left Tilt	0	20850	2510	1	Mid	0.11	0.112	24.07	25.00	1.239	0.139	/
	DSI1			0	20850	2510	50	Mid	-0.01	0.092	22.86	24.00	1.300	0.120	/
	DSI1		Right Cheek	0	20850	2510	1	Mid	-0.07	0.115	24.07	25.00	1.239	0.142	/
	DSI1			0	20850	2510	50	Mid	0.10	0.100	22.86	24.00	1.300	0.130	/
	DSI1		Right Tilt	0	20850	2510	1	Mid	-0.17	0.070	24.07	25.00	1.239	0.087	/
	DSI1			0	20850	2510	50	Mid	-0.09	0.060	22.86	24.00	1.300	0.078	/
Hotspot&Body-worn															
ANT4	DSI4	QPSK	Front Side	10	21100	2535	1	Mid	-0.07	0.149	19.37	20.00	1.156	0.172	/
	DSI4			10	21100	2535	50	Mid	-0.15	0.166	19.50	20.00	1.122	0.186	/
	DSI4		Back Side	10	21100	2535	1	Mid	-0.10	0.253	19.37	20.00	1.156	0.292	/
	DSI4			10	21100	2535	50	Mid	-0.05	0.274	19.50	20.00	1.122	0.307	/
	DSI5		Right Edge	10	20850	2510	1	Mid	-0.10	0.240	23.99	25.00	1.262	0.303	/
	DSI5			10	21100	2535	50	Mid	-0.16	0.214	22.78	24.00	1.324	0.283	/
	DSI4		Top Edge	10	21100	2535	1	Mid	-0.07	0.396	19.37	20.00	1.156	0.458	/
	DSI4			10	21100	2535	50	Mid	-0.01	0.430	19.50	20.00	1.122	**0.482**	22#
ANT0	DSI4	QPSK	Front Side	10	20850	2510	1	Mid	0.17	0.211	20.46	21.00	1.132	0.239	/
	DSI4			10	21100	2535	50	Mid	0.14	0.217	20.45	21.00	1.135	0.246	/
	DSI4		Back Side	10	21100	2535	1	Mid	0.06	0.411	20.46	21.00	1.132	0.465	/
	DSI4			10	21100	2535	50	Mid	0.17	0.420	20.45	21.00	1.135	0.477	/
	DSI5		Left Edge	10	21100	2535	1	Mid	-0.02	0.121	24.07	25.00	1.239	0.150	/
	DSI5			10	21100	2535	50	Mid	0.03	0.096	22.86	24.00	1.300	0.125	/
	DSI4		Bottom Edge	10	21100	2535	1	Mid	-0.03	0.343	20.46	21.00	1.132	0.388	/
	DSI4			10	21100	2535	50	Mid	-0.17	0.340	20.45	21.00	1.135	0.386	/
P-Sensor															
ANT4	DSI5	QPSK	Front Side	15	20850	2510	1	Mid	-0.07	0.209	23.99	25.00	1.262	0.264	/
	DSI5			15	21100	2535	50	Mid	0.03	0.185	22.78	24.00	1.324	0.245	/
	DSI5		Back Side	15	20850	2510	1	Mid	-0.19	0.265	23.99	25.00	1.262	0.334	/
	DSI5			15	21100	2535	50	Mid	0.10	0.228	22.78	24.00	1.324	0.302	/
	DSI5		Top Edge	15	20850	2510	1	Mid	0.12	0.550	23.99	25.00	1.262	0.694	/

	DSI5			15	21100	2535	50	Mid	-0.15	0.494	22.78	24.00	1.324	0.654	/
ANT0	DSI5	QPSK	Front Side	15	21100	2535	1	Mid	0.14	0.212	24.07	25.00	1.239	0.263	/
	DSI5			15	21100	2535	50	Mid	0.02	0.179	22.86	24.00	1.300	0.233	/
	DSI5		Back Side	15	21100	2535	1	Mid	-0.12	0.373	24.07	25.00	1.239	0.462	/
	DSI5			15	21100	2535	50	Mid	0.00	0.315	22.86	24.00	1.300	0.410	/
	DSI5		Bottom Edge	15	21100	2535	1	Mid	0.08	0.383	24.07	25.00	1.239	0.474	/
	DSI5			15	21100	2535	50	Mid	0.14	0.308	22.86	24.00	1.300	0.400	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10g Report SAR (W/kg)	Meas. No.
Specific															
ANT4	DSI4	QPSK	Top Edge	0	21100	2535	1	Mid	-0.13	1.380	19.37	20.00	1.156	1.595	/
	DSI4			0	21100	2535	50	Mid	-0.17	1.610	19.50	20.00	1.122	**1.806**	23#
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.10 LTE Band 7 (20MHz Bandwidth) Worse case for CA Test

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Head															
ANT4	DSI1	QPSK	Right Cheek	0	21100+21298	2535+2554.8	1+1	High+Low	0.02	0.534	18.31	19.00	1.172	**0.626**	48#
	DSI1			0	20850+21048	2510+2529.8	1+1	High+Low	0.10	0.512	18.28	19.00	1.180	0.604	/
	DSI1			0	21350+21152	2560+2540.2	1+1	Low+High	0.05	0.507	18.27	19.00	1.183	0.600	/
Hotspot															
ANT4	DSI4	QPSK	Top Edge	10	21100+21298	2535+2554.8	1+1	High+Low	-0.09	0.375	19.69	20.00	1.074	**0.403**	49#
	DSI4			10	20850+21048	2510+2529.8	1+1	High+Low	-0.12	0.362	19.55	20.00	1.109	0.402	/
	DSI4			10	21350+21152	2560+2540.2	1+1	Low+High	-0.04	0.354	19.66	20.00	1.081	0.383	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10g Report SAR (W/kg)	Meas. No.
Specific															
ANT4	DSI4	QPSK	Top Edge	0	21100+21298	2535+2554.8	1+1	High+Low	-0.05	1.240	19.69	20.00	1.074	**1.332**	50#
	DSI4			0	20850+21048	2510+2529.8	1+1	High+Low	0.12	1.120	19.55	20.00	1.109	1.242	/
	DSI4			0	21350+21152	2560+2540.2	1+1	Low+High	0.03	1.090	19.66	20.00	1.081	1.179	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.11 LTE Band 12 (10MHz Bandwidth)

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Head															
ANT4	DSI1	QPSK	Left Cheek	0	23130	711	1	High	0.13	0.363	24.21	25.50	1.346	0.489	/
	DSI1			0	23130	711	25	High	0.14	0.275	23.21	24.50	1.346	0.370	/
	DSI1		Left Tilt	0	23130	711	1	High	0.05	0.330	24.21	25.50	1.346	0.444	/
	DSI1			0	23130	711	25	High	-0.05	0.255	23.21	24.50	1.346	0.343	/
	DSI1		Right Cheek	0	23130	711	1	High	0.17	0.425	24.21	25.50	1.346	**0.572**	24#
	DSI1			0	23130	711	25	High	-0.14	0.338	23.21	24.50	1.346	0.455	/
	DSI1		Right Tilt	0	23130	711	1	High	0.06	0.350	24.21	25.50	1.346	0.471	/
	DSI1			0	23130	711	25	High	0.15	0.282	23.21	24.50	1.346	0.380	/
ANT0	DSI1	QPSK	Left Cheek	0	23095	707.5	1	Mid	0.10	0.132	24.43	25.50	1.279	0.169	/
	DSI1			0	23130	711	25	Mid	0.07	0.100	23.48	24.50	1.265	0.126	/
	DSI1		Left Tilt	0	23130	707.5	1	Mid	-0.08	0.068	24.43	25.50	1.279	0.087	/
	DSI1			0	23130	711	25	Mid	-0.08	0.054	23.48	24.50	1.265	0.068	/
	DSI1		Right Cheek	0	23130	707.5	1	Mid	0.00	0.126	24.43	25.50	1.279	0.161	/
	DSI1			0	23130	711	25	Mid	-0.06	0.093	23.48	24.50	1.265	0.118	/
	DSI1		Right Tilt	0	23130	707.5	1	Mid	0.11	0.078	24.43	25.50	1.279	0.100	/
	DSI1			0	23130	711	25	Mid	0.10	0.054	23.48	24.50	1.265	0.068	/
Hotspot&Body-worn															
ANT4	DSI4	QPSK	Front Side	10	23130	711	1	High	0.01	0.088	24.21	25.50	1.346	0.118	/
	DSI4			10	23130	711	25	High	0.03	0.070	23.21	24.50	1.346	0.094	/
	DSI4		Back Side	10	23130	711	1	High	-0.12	0.144	24.21	25.50	1.346	0.194	/
	DSI4			10	23130	711	25	High	-0.08	0.114	23.21	24.50	1.346	0.153	/
	DSI5		Right Edge	10	23130	711	1	High	-0.04	0.117	24.21	25.50	1.346	0.157	/
	DSI5			10	23130	711	25	High	0.00	0.092	23.21	24.50	1.346	0.124	/
	DSI4		Top Edge	10	23130	711	1	High	-0.03	0.070	24.21	25.50	1.346	0.094	/
	DSI4			10	23130	711	25	High	-0.10	0.056	23.21	24.50	1.346	0.075	/
ANT0	DSI4	QPSK	Front Side	10	23130	707.5	1	Mid	0.00	0.107	24.43	25.50	1.279	0.137	/
	DSI4			10	23130	711	25	Mid	0.19	0.083	23.48	24.50	1.265	0.105	/
	DSI4		Back Side	10	23130	707.5	1	Mid	-0.11	0.179	24.43	25.50	1.279	**0.229**	25#
	DSI4			10	23130	711	25	Mid	0.12	0.137	23.48	24.50	1.265	0.173	/
	DSI5		Left Edge	10	23130	707.5	1	Mid	-0.05	0.169	24.43	25.50	1.279	0.216	/
	DSI5			10	23130	711	25	Mid	0.19	0.131	23.48	24.50	1.265	0.166	/
	DSI4		Bottom Edge	10	23130	707.5	1	Mid	-0.01	0.147	24.43	25.50	1.279	0.188	/
	DSI4			10	23130	711	25	Mid	0.06	0.114	23.48	24.50	1.265	0.144	/

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

10.12 LTE Band 13 (10MHz Bandwidth)

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Head															
ANT4	DSI1	QPSK	Left Cheek	0	23230	782	1	High	0.05	0.203	24.27	25.50	1.327	0.269	/
	DSI1			0	23230	782	25	High	-0.17	0.142	23.26	24.50	1.330	0.189	/
	DSI1		Left Tilt	0	23230	782	1	High	-0.08	0.188	24.27	25.50	1.327	0.250	/
	DSI1			0	23230	782	25	High	0.10	0.137	23.26	24.50	1.330	0.182	/
	DSI1		Right Cheek	0	23230	782	1	High	0.01	0.236	24.27	25.50	1.327	0.313	26#
	DSI1			0	23230	782	25	High	0.15	0.177	23.26	24.50	1.330	0.235	/
	DSI1		Right Tilt	0	23230	782	1	High	-0.01	0.195	24.27	25.50	1.327	0.259	/
	DSI1			0	23230	782	25	High	-0.03	0.141	23.26	24.50	1.330	0.188	/
ANT0	DSI1	QPSK	Left Cheek	0	23230	782	1	High	0.03	0.102	24.55	25.50	1.245	0.127	/
	DSI1			0	23230	782	25	Mid	0.10	0.080	23.59	24.50	1.233	0.099	/
	DSI1		Left Tilt	0	23230	782	1	High	0.09	0.057	24.55	25.50	1.245	0.071	/
	DSI1			0	23230	782	25	Mid	0.03	0.045	23.59	24.50	1.233	0.055	/
	DSI1		Right Cheek	0	23230	782	1	High	-0.08	0.118	24.55	25.50	1.245	0.147	/
	DSI1			0	23230	782	25	Mid	-0.04	0.093	23.59	24.50	1.233	0.115	/
	DSI1		Right Tilt	0	23230	782	1	High	0.06	0.064	24.55	25.50	1.245	0.080	/
	DSI1			0	23230	782	25	Mid	0.19	0.054	23.59	24.50	1.233	0.067	/
Hotspot&Body-worn															
ANT4	DSI4	QPSK	Front Side	10	23230	782	1	High	-0.04	0.065	24.27	25.50	1.327	0.086	/
	DSI4			10	23230	782	25	High	-0.10	0.048	23.26	24.50	1.330	0.064	/
	DSI4		Back Side	10	23230	782	1	High	-0.14	0.098	24.27	25.50	1.327	0.130	/
	DSI4			10	23230	782	25	High	0.01	0.072	23.26	24.50	1.330	0.096	/
	DSI5		Right Edge	10	23230	782	1	High	-0.15	0.078	24.27	25.50	1.327	0.104	/
	DSI5			10	23230	782	25	High	0.09	0.055	23.26	24.50	1.330	0.073	/
	DSI4		Top Edge	10	23230	782	1	High	0.05	0.082	24.27	25.50	1.327	0.109	/
	DSI4			10	23230	782	25	High	0.14	0.061	23.26	24.50	1.330	0.081	/
ANT0	DSI4	QPSK	Front Side	10	23230	782	1	High	-0.15	0.121	24.55	25.50	1.245	0.151	/
	DSI4			10	23230	782	25	Mid	0.16	0.098	23.59	24.50	1.233	0.121	/
	DSI4		Back Side	10	23230	782	1	High	-0.05	0.213	24.55	25.50	1.245	**0.265**	27#
	DSI4			10	23230	782	25	Mid	-0.15	0.171	23.59	24.50	1.233	0.211	/
	DSI5		Left Edge	10	23230	782	1	High	-0.19	0.180	24.55	25.50	1.245	0.224	/
	DSI5			10	23230	782	25	Mid	-0.19	0.142	23.59	24.50	1.233	0.175	/
	DSI4		Bottom Edge	10	23230	782	1	High	0.03	0.163	24.55	25.50	1.245	0.203	/
	DSI4			10	23230	782	25	Mid	0.07	0.160	23.59	24.50	1.233	0.197	/

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

10.13 LTE Band 26 (15MHz Bandwidth)

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Head															
ANT4	DSI1	QPSK	Left Cheek	0	26865	831.5	1	MID	-0.07	0.486	24.25	25.50	1.334	0.648	/
	DSI1			0	26865	831.5	36	MID	-0.11	0.504	23.35	24.50	1.303	0.657	/
	DSI1		Left Tilt	0	26865	831.5	1	MID	0.02	0.391	24.25	25.50	1.334	0.521	/
	DSI1			0	26865	831.5	36	MID	0.01	0.409	23.35	24.50	1.303	0.533	/
	DSI1		Right Cheek	0	26865	831.5	1	MID	-0.04	0.520	24.25	25.50	1.334	0.693	/
	DSI1			0	26865	831.5	36	MID	0.03	0.537	23.35	24.50	1.303	**0.700**	28#
	DSI1		Right Tilt	0	26865	831.5	1	MID	0.10	0.375	24.25	25.50	1.334	0.500	/
	DSI1			0	26865	831.5	36	MID	0.15	0.386	23.35	24.50	1.303	0.503	/
ANT0	DSI1	QPSK	Left Cheek	0	26865	831.5	1	MID	0.12	0.108	24.49	25.50	1.262	0.136	/
	DSI1			0	26865	831.5	36	MID	0.16	0.090	23.57	24.50	1.239	0.111	/
	DSI1		Left Tilt	0	26865	831.5	1	MID	0.00	0.064	24.49	25.50	1.262	0.081	/
	DSI1			0	26865	831.5	36	MID	0.05	0.051	23.57	24.50	1.239	0.063	/
	DSI1		Right Cheek	0	26865	831.5	1	MID	0.05	0.135	24.49	25.50	1.262	0.170	/
	DSI1			0	26865	831.5	36	MID	-0.16	0.110	23.57	24.50	1.239	0.136	/
	DSI1		Right Tilt	0	26865	831.5	1	MID	-0.05	0.077	24.49	25.50	1.262	0.097	/
	DSI1			0	26865	831.5	36	MID	-0.05	0.064	23.57	24.50	1.239	0.079	/
Hotspot&Body-worn															
ANT4	DSI4	QPSK	Front Side	10	26865	831.5	1	MID	-0.07	0.162	24.25	25.50	1.334	0.216	/
	DSI4			10	26865	831.5	36	MID	-0.04	0.136	23.35	24.50	1.303	0.177	/
	DSI4		Back Side	10	26865	831.5	1	MID	0.09	0.259	24.25	25.50	1.334	0.345	/
	DSI4			10	26865	831.5	36	MID	0.04	0.216	23.35	24.50	1.303	0.281	/
	DSI5		Right Edge	10	26865	831.5	1	MID	0.12	0.083	24.25	25.50	1.334	0.111	/
	DSI5			10	26865	831.5	36	MID	0.03	0.071	23.35	24.50	1.303	0.093	/
	DSI4		Top Edge	10	26865	831.5	1	MID	0.02	0.169	24.25	25.50	1.334	0.225	/
	DSI4			10	26865	831.5	36	MID	0.09	0.141	23.35	24.50	1.303	0.184	/
ANT0	DSI4	QPSK	Front Side	10	26865	831.5	1	MID	0.01	0.202	24.49	25.50	1.262	0.255	/
	DSI4			10	26865	831.5	36	MID	-0.09	0.170	23.57	24.50	1.239	0.211	/
	DSI4		Back Side	10	26865	831.5	1	MID	-0.01	0.352	24.49	25.50	1.262	**0.444**	29#
	DSI4			10	26865	831.5	36	MID	0.08	0.291	23.57	24.50	1.239	0.360	/
	DSI5		Left Edge	10	26865	831.5	1	MID	0.17	0.167	24.49	25.50	1.262	0.211	/
	DSI5			10	26865	831.5	36	MID	-0.09	0.139	23.57	24.50	1.239	0.172	/
	DSI4		Bottom Edge	10	26865	831.5	1	MID	0.18	0.279	24.49	25.50	1.262	0.352	/
	DSI4			10	26865	831.5	36	MID	-0.06	0.228	23.57	24.50	1.239	0.282	/

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

10.14 LTE Band 66 (20MHz Bandwidth)

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Head															
ANT4	DSI1	QPSK	Left Cheek	0	132072	1720	1	Mid	0.04	0.551	20.95	21.00	1.012	0.557	/
	DSI1			0	132072	1720	50	Mid	-0.03	0.574	20.98	21.00	1.005	0.577	/
	DSI1		Left Tilt	0	132072	1720	1	Mid	-0.12	0.712	20.95	21.00	1.012	0.720	/
	DSI1			0	132072	1720	50	Mid	0.11	0.729	20.98	21.00	1.005	0.732	/
	DSI1		Right Cheek	0	132072	1720	1	Mid	0.18	0.685	20.95	21.00	1.012	0.693	/
	DSI1			0	132072	1720	50	Mid	-0.10	0.711	20.98	21.00	1.005	0.714	/
	DSI1		Right Tilt	0	132072	1720	1	Mid	-0.02	0.845	20.95	21.00	1.012	0.855	/
	DSI1			0	132322	1745	1	Mid	-0.08	0.851	20.80	21.00	1.047	0.891	/
	DSI1			0	132572	1770	1	Mid	-0.01	0.823	20.67	21.00	1.079	0.888	/
	DSI1			0	132072	1720	50	Mid	0.03	0.911	20.98	21.00	1.005	**0.915**	30#
	DSI1			0	132322	1745	50	Mid	0.00	0.842	20.75	21.00	1.059	0.892	/
	DSI1			0	132572	1770	50	Low	-0.04	0.856	20.74	21.00	1.062	0.909	/
	DSI1			0	132072	1720	50	Low	0.15	0.869	20.98	21.00	1.005	0.873	/
ANT0	DSI1	QPSK	Left Cheek	0	132322	1745	1	Mid	-0.13	0.206	24.55	25.50	1.245	0.256	/
	DSI1			0	132322	1745	50	Mid	0.15	0.172	23.55	25.50	1.567	0.269	/
	DSI1		Left Tilt	0	132322	1745	1	Mid	-0.12	0.147	24.55	25.50	1.245	0.183	/
	DSI1			0	132322	1745	50	Mid	0.02	0.126	23.55	25.50	1.567	0.197	/
	DSI1		Right Cheek	0	132322	1745	1	Mid	0.06	0.283	24.55	25.50	1.245	0.352	/
	DSI1			0	132322	1745	50	Mid	-0.01	0.223	23.55	25.50	1.567	0.349	/
	DSI1		Right Tilt	0	132322	1745	1	Mid	-0.01	0.149	24.55	25.50	1.245	0.185	/
	DSI1			0	132322	1745	50	Mid	-0.05	0.126	23.55	25.50	1.567	0.197	/
Hotspot&Body-worn															
ANT4	DSI4	QPSK	Front Side	10	132322	1745	1	Mid	0.04	0.161	21.89	22.50	1.151	0.185	/
	DSI4			10	132322	1745	50	Mid	0.00	0.179	21.74	22.50	1.191	0.213	/
	DSI4		Back Side	10	132322	1745	1	Mid	0.04	0.195	21.89	22.50	1.151	0.224	/
	DSI4			10	132322	1745	50	Mid	0.19	0.217	21.74	22.50	1.191	0.258	/
	DSI5		Right Edge	10	132322	1745	1	Mid	-0.15	0.197	25.19	25.50	1.074	0.212	/
	DSI5			10	132322	1745	50	Mid	-0.12	0.169	24.14	24.50	1.086	0.184	/
	DSI4		Top Edge	10	132322	1745	1	Mid	-0.08	0.360	21.89	22.50	1.151	0.414	/
	DSI4			10	132322	1745	50	Mid	0.13	0.408	21.74	22.50	1.191	0.486	/
ANT0	DSI4	QPSK	Front Side	10	132322	1745	1	Mid	-0.16	0.174	20.16	21.00	1.213	0.211	/
	DSI4			10	132322	1745	50	Mid	0.06	0.180	20.38	21.00	1.153	0.208	/
	DSI4		Back Side	10	132322	1745	1	Mid	-0.02	0.420	20.16	21.00	1.213	0.510	/
	DSI4			10	132322	1745	50	Mid	0.16	0.430	20.38	21.00	1.153	0.496	/
	DSI5		Left Edge	10	132322	1745	1	Mid	-0.12	0.171	24.55	25.50	1.245	0.213	/
	DSI5			10	132322	1745	50	Mid	0.14	0.133	23.55	25.50	1.567	0.208	/
	DSI4		Bottom Edge	10	132322	1745	1	Mid	0.11	0.527	20.16	21.00	1.213	0.639	/
	DSI4			10	132322	1745	50	Mid	0.11	0.559	20.38	21.00	1.153	**0.645**	31#
P-Sensor															

ANT4	DSI5	QPSK	Front Side	15	132322	1745	1	Mid	-0.14	0.187	25.19	25.50	1.074	0.201	/
	DSI5			15	132322	1745	50	Mid	-0.19	0.159	24.14	24.50	1.086	0.173	/
	DSI5		Back Side	15	132322	1745	1	Mid	-0.10	0.192	25.19	25.50	1.074	0.206	/
	DSI5			15	132322	1745	50	Mid	-0.19	0.167	24.14	24.50	1.086	0.181	/
	DSI5		Top Edge	15	132322	1745	1	Mid	0.16	0.401	25.19	25.50	1.074	0.431	/
	DSI5			15	132322	1745	50	Mid	0.13	0.352	24.14	24.50	1.086	0.382	/
ANT0	DSI5	QPSK	Front Side	15	132322	1745	1	Mid	0.03	0.305	24.55	25.50	1.245	0.380	/
	DSI5			15	132322	1745	50	Mid	-0.10	0.243	23.55	25.50	1.567	0.381	/
	DSI5		Back Side	15	132322	1745	1	Mid	0.17	0.705	24.55	25.50	1.245	0.877	/
	DSI5			15	132322	1745	50	Mid	-0.17	0.570	23.55	25.50	1.567	0.893	/
	DSI5		Bottom Edge	15	132322	1745	1	Mid	-0.16	0.896	24.55	25.50	1.245	1.115	/
	DSI5			15	132322	1745	50	Mid	0.16	0.747	23.55	25.50	1.567	1.170	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10g Report SAR (W/kg)	Meas. No.
Specific															
ANT0	DSI4	QPSK	Back Side Bottom Edge	0	132322	1745	1	Mid	0.12	1.270	20.16	21.00	1.213	1.541	/
	DSI4			0	132322	1745	50	Mid	0.05	1.280	20.38	21.00	1.153	1.476	/
	DSI4			0	132322	1745	1	Mid	-0.06	1.380	20.16	21.00	1.213	1.674	/
	DSI4			0	132322	1745	50	Mid	0.04	1.500	20.38	21.00	1.153	**1.730**	32#
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.15 LTE Band 38 (20MHz Bandwidth)

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Head															
ANT4	DSI1	QPSK	Left Cheek	0	38000	2595	1	Mid	-0.16	0.429	23.14	24.00	1.219	0.523	/
	DSI1			0	38000	2595	50	Mid	0.05	0.424	23.02	24.00	1.253	0.531	/
	DSI1		Left Tilt	0	38000	2595	1	Mid	0.05	0.535	23.14	24.00	1.219	0.652	/
	DSI1			0	38000	2595	50	Mid	-0.06	0.526	23.02	24.00	1.253	0.659	/
	DSI1		Right Cheek	0	38000	2595	1	Mid	0.10	0.816	23.14	24.00	1.219	**0.995**	33#
	DSI1			0	37850	2580	1	Mid	0.11	0.802	23.10	24.00	1.230	0.987	/
	DSI1			0	38150	2610	1	Mid	0.02	0.811	23.13	24.00	1.222	0.991	/
	DSI1			0	38000	2595	50	Mid	0.05	0.792	23.02	24.00	1.253	0.992	/
	DSI1			0	37850	2580	50	Mid	0.14	0.784	23.02	24.00	1.253	0.982	/
	DSI1			0	38150	2610	50	Mid	-0.10	0.785	23.00	24.00	1.259	0.988	/
	DSI1			0	37850	2580	100	Low	0.00	0.779	22.96	24.00	1.271	0.990	/
	DSI1		Right Tilt	0	38000	2595	1	Mid	0.12	0.655	23.14	24.00	1.219	0.798	/
	DSI1			0	38000	2595	50	Mid	0.13	0.637	23.02	24.00	1.253	0.798	/
ANT0	DSI1	QPSK	Left Cheek	0	38150	2610	1	Mid	-0.17	0.146	24.83	25.50	1.167	0.170	/
	DSI1			0	38000	2595	50	Mid	-0.05	0.113	23.70	24.50	1.202	0.136	/
	DSI1		Left Tilt	0	38150	2610	1	Mid	-0.12	0.068	24.83	25.50	1.167	0.079	/
	DSI1			0	38000	2595	50	Mid	-0.06	0.054	23.70	24.50	1.202	0.065	/
	DSI1		Right Cheek	0	38150	2610	1	Mid	0.12	0.080	24.83	25.50	1.167	0.093	/
	DSI1			0	38000	2595	50	Mid	0.05	0.060	23.70	24.50	1.202	0.072	/
	DSI1		Right Tilt	0	38150	2610	1	Mid	0.15	0.053	24.83	25.50	1.167	0.062	/
	DSI1			0	38000	2595	50	Mid	0.09	0.047	23.70	24.50	1.202	0.057	/
Hotspot&Body-worn															
ANT4	DSI4	QPSK	Front Side	10	38000	2595	1	Mid	-0.05	0.135	23.14	24.00	1.219	0.165	/
	DSI4			10	38000	2595	50	Mid	0.16	0.105	23.02	24.00	1.253	0.132	/
	DSI4		Back Side	10	38000	2595	1	Mid	-0.03	0.264	23.14	24.00	1.219	0.322	/
	DSI4			10	38000	2595	50	Mid	-0.05	0.208	23.02	24.00	1.253	0.261	/
	DSI5		Right Edge	10	38150	2610	1	Mid	-0.18	0.192	24.61	25.50	1.227	0.236	/
	DSI5			10	37850	2580	50	Mid	-0.05	0.154	23.42	24.50	1.282	0.197	/
	DSI4		Top Edge	10	38000	2595	1	Mid	0.06	0.407	23.14	24.00	1.219	**0.496**	34#
	DSI4			10	38000	2595	50	Mid	-0.10	0.319	23.02	24.00	1.253	0.400	/
ANT0	DSI4	QPSK	Front Side	10	38150	2610	1	Mid	-0.09	0.179	22.75	23.50	1.189	0.213	/
	DSI4			10	37850	2580	50	Mid	-0.07	0.143	22.70	23.50	1.202	0.172	/
	DSI4		Back Side	10	38150	2610	1	Mid	0.03	0.383	22.75	23.50	1.189	0.455	/
	DSI4			10	37850	2580	50	Mid	0.16	0.303	22.70	23.50	1.202	0.364	/
	DSI5		Left Edge	10	38150	2610	1	Mid	0.04	0.053	24.83	25.50	1.167	0.062	/
	DSI5			10	38000	2595	50	Mid	-0.12	0.050	23.70	24.50	1.202	0.060	/
	DSI4		Bottom Edge	10	38150	2610	1	Mid	-0.08	0.260	22.75	23.50	1.189	0.309	/
	DSI4			10	37850	2580	50	Mid	-0.07	0.207	22.70	23.50	1.202	0.249	/
P-Sensor															

ANT4	DSI5	QPSK	Front Side	15	38150	2610	1	Mid	-0.15	0.093	24.61	25.50	1.227	0.114	/
	DSI5			15	37850	2580	50	Mid	0.17	0.074	23.42	24.50	1.282	0.095	/
	DSI5		Back Side	15	38150	2610	1	Mid	-0.11	0.185	24.61	25.50	1.227	0.227	/
	DSI5			15	37850	2580	50	Mid	-0.02	0.145	23.42	24.50	1.282	0.186	/
	DSI5		Top Edge	15	38150	2610	1	Mid	0.13	0.284	24.61	25.50	1.227	0.349	/
	DSI5			15	37850	2580	50	Mid	0.07	0.225	23.42	24.50	1.282	0.289	/
ANT0	DSI5	QPSK	Front Side	15	38150	2610	1	Mid	0.19	0.141	24.83	25.50	1.167	0.165	/
	DSI5			15	38000	2595	50	Mid	0.09	0.111	23.70	24.50	1.202	0.133	/
	DSI5		Back Side	15	38150	2610	1	Mid	-0.18	0.282	24.83	25.50	1.167	0.329	/
	DSI5			15	38000	2595	50	Mid	-0.13	0.235	23.70	24.50	1.202	0.283	/
	DSI5		Bottom Edge	15	38150	2610	1	Mid	0.12	0.229	24.83	25.50	1.167	0.267	/
	DSI5			15	38000	2595	50	Mid	0.10	0.179	23.70	24.50	1.202	0.215	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.16 LTE Band 38 (20MHz Bandwidth) Worse case for CA Test

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Head															
ANT4	DSI1	QPSK	Right Cheek	0	38099+37901	2604.9+2624.7	1+1	High+Low	-0.05	0.670	22.78	24.00	1.324	**0.887**	51#
	DSI1			0	37850+38048	2580+2598.8	1+1	High+Low	0.01	0.646	22.75	24.00	1.334	0.861	/
	DSI1			0	38150+37952	2610+2590.2	1+1	Low+High	-0.11	0.638	22.72	24.00	1.343	0.857	/
Hotspot															
ANT4	DSI4	QPSK	Top Edge	10	38099+37901	2604.9+2624.7	1+1	High+Low	0.06	0.346	22.78	24.00	1.324	**0.458**	52#
	DSI4			10	37850+38048	2580+2598.8	1+1	High+Low	0.13	0.332	22.75	24.00	1.334	0.443	/
	DSI4			10	38150+37952	2610+2590.2	1+1	Low+High	0.05	0.324	22.72	24.00	1.343	0.435	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.17 LTE Band 41 (20MHz Bandwidth)

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Head															
ANT4	DSI1	QPSK	Left Cheek	0	40620	2593	1	Mid	-0.14	0.533	22.39	23.00	1.151	0.613	/
	DSI1			0	40620	2593	50	Mid	-0.08	0.531	22.28	23.00	1.180	0.627	/
	DSI1		Left Tilt	0	40620	2593	1	Mid	-0.07	0.658	22.39	23.00	1.151	0.757	/
	DSI1			0	40620	2593	50	Mid	0.15	0.651	22.28	23.00	1.180	0.768	/
	DSI1		Right Cheek	0	40620	2593	1	Mid	-0.06	0.903	22.39	23.00	1.151	1.039	/
	DSI1			0	39750	2506	1	Mid	-0.11	0.885	22.25	23.00	1.189	1.052	/
	DSI1			0	40185	2549.5	1	Mid	0.01	0.874	22.20	23.00	1.202	1.051	/
	DSI1			0	41055	2636.5	1	Mid	0.07	0.892	22.36	23.00	1.159	1.034	/
	DSI1			0	41490	2680	1	High	0.18	0.885	22.39	23.00	1.151	1.018	/
	DSI1			0	40620	2593	50	Mid	0.11	0.911	22.28	23.00	1.180	**1.075**	35#
	DSI1			0	39750	2506	50	Mid	-0.16	0.858	22.15	23.00	1.216	1.043	/
	DSI1			0	40185	2549.5	50	Mid	-0.19	0.845	22.21	23.00	1.199	1.014	/
	DSI1			0	41055	2636.5	50	Mid	0.06	0.856	22.27	23.00	1.183	1.013	/
	DSI1			0	41490	2680	50	High	-0.17	0.845	22.27	23.00	1.183	1.000	/
	DSI1			0	41490	2680	100	Low	-0.11	0.875	22.22	23.00	1.197	1.047	/
	DSI1		Right Tilt	0	40620	2593	1	Mid	-0.09	0.807	22.39	23.00	1.151	0.929	/
	DSI1			0	39750	2506	1	Mid	0.01	0.811	22.25	23.00	1.189	0.964	/
	DSI1			0	40185	2549.5	1	Mid	-0.19	0.802	22.20	23.00	1.202	0.964	/
	DSI1			0	41055	2636.5	1	Mid	0.07	0.798	22.36	23.00	1.159	0.925	/
	DSI1			0	41490	2680	1	High	-0.13	0.787	22.39	23.00	1.151	0.906	/
	DSI1			0	40620	2593	50	Mid	-0.04	0.811	22.28	23.00	1.180	0.957	/
	DSI1			0	39750	2506	50	Mid	0.00	0.815	22.15	23.00	1.216	0.991	/
	DSI1			0	40185	2549.5	50	Mid	-0.07	0.806	22.21	23.00	1.199	0.967	/
	DSI1			0	41055	2636.5	50	Mid	0.00	0.811	22.27	23.00	1.183	0.959	/
	DSI1			0	41490	2680	50	High	-0.06	0.789	22.27	23.00	1.183	0.933	/
	DSI1			0	41490	2680	100	Low	-0.01	0.815	22.22	23.00	1.197	0.975	/
ANT0	DSI1	QPSK	Left Cheek	0	39750	2506	1	Mid	-0.13	0.117	25.05	25.50	1.109	0.130	/
	DSI1			0	39750	2506	50	Mid	0.01	0.095	23.86	24.50	1.159	0.110	/
	DSI1		Left Tilt	0	39750	2506	1	Mid	-0.03	0.055	25.05	25.50	1.109	0.061	/
	DSI1			0	39750	2506	50	Mid	-0.04	0.047	23.86	24.50	1.159	0.054	/
	DSI1		Right Cheek	0	39750	2506	1	Mid	0.17	0.066	25.05	25.50	1.109	0.073	/
	DSI1			0	39750	2506	50	Mid	-0.11	0.062	23.86	24.50	1.159	0.072	/
	DSI1		Right Tilt	0	39750	2506	1	Mid	-0.08	0.048	25.05	25.50	1.109	0.053	/
	DSI1			0	39750	2506	50	Mid	0.19	0.042	23.86	24.50	1.159	0.049	/
Hotspot&Body-worn															
ANT4	DSI4	QPSK	Front Side	10	41490	2680	1	Mid	0.06	0.148	21.92	22.00	1.019	0.151	/
	DSI4			10	39750	2506	50	Mid	-0.14	0.115	21.74	22.00	1.062	0.122	/
	DSI4		Back Side	10	41490	2680	1	Mid	-0.04	0.235	21.92	22.00	1.019	0.239	/
	DSI4			10	39750	2506	50	Mid	-0.18	0.188	21.74	22.00	1.062	0.200	/

	DSI4		Right Edge	10	39750	2506	1	Mid	-0.11	0.123	24.72	25.50	1.197	0.147	/
	DSI4			10	40620	2593	50	Mid	0.11	0.102	23.70	24.50	1.202	0.123	/
	DSI4		Top Edge	10	41490	2680	1	Mid	0.02	0.382	21.92	22.00	1.019	**0.389**	36#
	DSI4			10	39750	2506	50	Mid	-0.02	0.325	21.74	22.00	1.062	0.345	/
ANT0	DSI4	QPSK	Front Side	10	39750	2506	1	Mid	-0.09	0.181	22.76	23.50	1.186	0.215	/
	DSI4			10	39750	2506	50	Mid	0.17	0.145	22.67	23.50	1.211	0.176	/
	DSI4		Back Side	10	39750	2506	1	Mid	0.04	0.312	22.76	23.50	1.186	0.370	/
	DSI4			10	39750	2506	50	Mid	-0.02	0.299	22.67	23.50	1.211	0.362	/
	DSI4		Left Edge	10	39750	2506	1	Mid	-0.02	0.042	25.05	25.50	1.109	0.047	/
	DSI4			10	39750	2506	50	Mid	0.06	0.035	23.86	24.50	1.159	0.041	/
	DSI4		Bottom Edge	10	39750	2506	1	Mid	0.03	0.262	22.76	23.50	1.186	0.311	/
	DSI4			10	39750	2506	50	Mid	-0.02	0.214	22.67	23.50	1.211	0.259	/
P-Sensor															
ANT4	DSI5	QPSK	Front Side	15	40620	2593	1	Mid	0.02	0.125	24.72	25.50	1.197	0.150	/
	DSI5			15	40620	2593	50	Mid	0.04	0.103	23.70	24.50	1.202	0.124	/
	DSI5		Back Side	15	40620	2593	1	Mid	-0.16	0.197	24.72	25.50	1.197	0.236	/
	DSI5			15	40620	2593	50	Mid	0.14	0.160	23.70	24.50	1.202	0.192	/
	DSI5		Top Edge	15	40620	2593	1	Mid	0.17	0.382	24.72	25.50	1.197	0.457	/
	DSI5			15	40620	2593	50	Mid	-0.09	0.310	23.70	24.50	1.202	0.373	/
ANT0	DSI5	QPSK	Front Side	15	39750	2506	1	Mid	-0.06	0.142	25.05	25.50	1.109	0.158	/
	DSI5			15	39750	2506	50	Mid	-0.11	0.115	23.86	24.50	1.159	0.133	/
	DSI5		Back Side	15	39750	2506	1	Mid	0.07	0.275	25.05	25.50	1.109	0.305	/
	DSI5			15	39750	2506	50	Mid	0.01	0.223	23.86	24.50	1.159	0.258	/
	DSI5		Bottom Edge	15	39750	2506	1	Mid	-0.15	0.221	25.05	25.50	1.109	0.245	/
	DSI5			15	39750	2506	50	Mid	-0.08	0.172	23.86	24.50	1.159	0.199	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.18 LTE Band 41 (20MHz Bandwidth) Worse case for CA Test

Antenna	DSI State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Head															
ANT4	DSI1	QPSK	Right Cheek	0	39750+39948	2506+2505.8	1+1	High+Low	0.14	0.678	22.05	23.00	1.245	0.844	/
	DSI1			0	40185+40383	2549.5+2569.3	1+1	High+Low	0.05	0.704	22.05	23.00	1.245	0.876	/
	DSI1			0	40620+40818	2593+2612.8	1+1	High+Low	0.02	0.765	22.02	23.00	1.253	**0.959**	53#
	DSI1			0	41055+40857	2636.5+2616.7	1+1	Low+High	-0.16	0.726	22.07	23.00	1.239	0.899	/
	DSI1			0	41490+41292	2680+2660.2	1+1	Low+High	-0.02	0.711	22.06	23.00	1.242	0.883	/
Hotspot&															
ANT4	DSI4	QPSK	Top Edge	10	39750+39948	2506+2505.8	1+1	High+Low	0.14	0.309	21.65	22.00	1.084	0.335	/
	DSI4			10	40185+40383	2549.5+2569.3	1+1	High+Low	0.16	0.306	21.77	22.00	1.054	0.323	/
	DSI4			10	40620+40818	2593+2612.8	1+1	High+Low	0.07	0.328	21.63	22.00	1.089	0.357	/
	DSI4			10	41055+40857	2636.5+2616.7	1+1	Low+High	-0.02	0.321	21.50	22.00	1.122	0.360	/
	DSI4			10	41490+41292	2680+2660.2	1+1	Low+High	0.04	0.367	21.78	22.00	1.052	**0.386**	54#
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.19 WIFI 2.4GHz

Mode	Antenna	DSI State	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Report SAR (W/kg)	Meas. No.
Head															
802.11 b	ANT6	DSI1	Left Cheek	0	6	2437	-0.10	0.465	15.52	16.00	1.117	99.52	1.005	**0.522**	37#
		DSI1	Left Tilt	0	6	2437	0.09	0.362	15.52	16.00	1.117	99.52	1.005	0.406	/
		DSI1	Right Cheek	0	6	2437	0.12	0.165	15.52	16.00	1.117	99.52	1.005	0.185	/
		DSI1	Right Tilt	0	6	2437	0.05	0.152	15.52	16.00	1.117	99.52	1.005	0.171	/
Hotspot&Body-worn															
802.11 b	ANT6	DSI4	Front Side	10	6	2437	-0.14	0.082	15.52	16.00	1.117	99.52	1.005	0.092	/
		DSI4	Back Side	10	6	2437	0.04	0.099	15.52	16.00	1.117	99.52	1.005	**0.111**	38#
		DSI5	Left Edge	10	6	2437	0.07	0.095	15.52	16.00	1.117	99.52	1.005	0.107	/
		DSI5	Right Edge	10	6	2437	0.16	0.004	15.52	16.00	1.117	99.52	1.005	0.004	/
		DSI4	Top Edge	10	6	2437	0.08	0.075	15.52	16.00	1.117	99.52	1.005	0.084	/
		DSI4	Bottom Edge	10	6	2437	-0.11	0.003	15.52	16.00	1.117	99.52	1.005	0.003	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.20 WIFI 5GHz

Band	Mode	Antenna	DSI State	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Report SAR (W/kg)	Meas. No.
Head																
5.3G	802.11ac20	ANT6	DSI1	Left Cheek	0	52	5260	0.09	0.468	12.79	13.80	1.262	96.88	1.032	0.609	/
			DSI1	Left Tilt	0	52	5260	-0.04	0.483	12.79	13.80	1.262	96.88	1.032	**0.629**	39#
			DSI1	Right Cheek	0	52	5260	-0.17	0.256	12.79	13.80	1.262	96.88	1.032	0.333	/
			DSI1	Right Tilt	0	52	5260	-0.01	0.311	12.79	13.80	1.262	96.88	1.032	0.405	/
5.6G	802.11ac20	ANT6	DSI1	Left Cheek	0	116	5580	-0.17	0.594	12.81	13.80	1.256	96.88	1.032	**0.770**	40#
			DSI1	Left Tilt	0	116	5580	-0.13	0.511	12.81	13.80	1.256	96.88	1.032	0.662	/
			DSI1	Right Cheek	0	116	5580	-0.16	0.344	12.81	13.80	1.256	96.88	1.032	0.446	/
			DSI1	Right Tilt	0	116	5580	-0.19	0.378	12.81	13.80	1.256	96.88	1.032	0.490	/
5.8G	802.11ac20	ANT6	DSI1	Left Cheek	0	157	5785	0.07	0.479	11.71	13.20	1.409	96.88	1.032	**0.697**	41#
			DSI1	Left Tilt	0	157	5785	0.11	0.446	11.71	13.20	1.409	96.88	1.032	0.649	/
			DSI1	Right Cheek	0	157	5785	-0.06	0.254	11.71	13.20	1.409	96.88	1.032	0.369	/
			DSI1	Right Tilt	0	157	5785	-0.18	0.306	11.71	13.20	1.409	96.88	1.032	0.445	/
Hotspot&Body-worn																
5.2G	802.11a	ANT6	DSI4	Front Side	10	36	5180	-0.15	0.408	18.31	18.50	1.045	96.78	1.033	0.440	/
			DSI4	Back Side	10	36	5180	-0.17	0.651	18.31	18.50	1.045	96.78	1.033	0.703	/
			DSI5	Left Edge	10	36	5180	-0.16	0.300	18.31	18.50	1.045	96.78	1.033	0.324	/
			DSI5	Right Edge	10	36	5180	0.05	0.012	18.31	18.50	1.045	96.78	1.033	0.013	/
			DSI4	Top Edge	10	36	5180	-0.02	1.000	18.31	18.50	1.045	96.78	1.033	**1.079**	42#
			DSI4		10	40	5200	-0.09	0.958	18.28	18.50	1.052	96.78	1.033	1.041	/
			DSI4		10	48	5240	0.06	0.968	18.30	18.50	1.047	96.78	1.033	1.047	/
			DSI4	Bottom Edge	10	36	5180	-0.11	0.009	18.31	18.50	1.045	96.78	1.033	0.010	/
5.8G	802.11a	ANT6	DSI4	Front Side	10	157	5785	0.15	0.283	16.84	18.00	1.306	96.78	1.033	0.382	/
			DSI4	Back Side	10	157	5785	-0.07	0.324	16.84	18.00	1.306	96.78	1.033	0.437	/
			DSI5	Left Edge	10	157	5785	-0.03	0.138	16.84	18.00	1.306	96.78	1.033	0.186	/
			DSI5	Right Edge	10	157	5785	0.15	0.010	16.84	18.00	1.306	96.78	1.033	0.013	/
			DSI4	Top Edge	10	157	5785	-0.03	0.421	16.84	18.00	1.306	96.78	1.033	**0.568**	43#
			DSI4	Bottom Edge	10	157	5785	0.07	0.006	16.84	18.00	1.306	96.78	1.033	0.008	/

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

Band	Mode	Antenna	DSI State	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	10g Report SAR (W/kg)	Meas. No.
Specific																
5.3G	802.11a	ANT6	DSI4	Front Side	0	52	5260	0.03	0.859	17.85	18.50	1.161	96.78	1.033	1.031	/
			DSI4	Back Side	0	52	5260	0.13	0.641	17.85	18.50	1.161	96.78	1.033	0.769	/
			DSI5	Left Edge	0	52	5260	0.03	0.526	17.85	18.50	1.161	96.78	1.033	0.631	/
			DSI5	Right Edge	0	52	5260	0.18	0.095	17.85	18.50	1.161	96.78	1.033	0.114	/
			DSI4	Top Edge	0	52	5260	-0.16	1.490	17.85	18.50	1.161	96.78	1.033	**1.788**	44#
			DSI4	Bottom Edge	0	52	5260	0.03	0.023	17.85	18.50	1.161	96.78	1.033	0.028	/
5.6G	802.11a	ANT6	DSI4	Front Side	0	116	5580	0.17	0.568	17.75	18.50	1.189	96.78	1.033	0.697	/
			DSI4	Back Side	0	116	5580	0.19	0.450	17.75	18.50	1.189	96.78	1.033	0.552	/
			DSI5	Left Edge	0	116	5580	0.17	0.436	17.75	18.50	1.189	96.78	1.033	0.535	/
			DSI5	Right Edge	0	116	5580	-0.05	0.067	17.75	18.50	1.189	96.78	1.033	0.082	/
			DSI4	Top Edge	0	116	5580	-0.03	1.280	17.75	18.50	1.189	96.78	1.033	**1.571**	45#
			DSI4	Bottom Edge	0	116	5580	0.05	0.018	17.75	18.50	1.189	96.78	1.033	0.022	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

10.21 Bluetooth

Mode	Antenna	DSI State	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Report SAR (W/kg)	Meas. No.
Head															
DH5	ANT6	DSI1	Left Cheek	0	39	2441	-0.14	0.085	9.87	11.00	1.297	76.68	1.304	**0.144**	46#
		DSI1	Left Tilt	0	39	2441	-0.08	0.078	9.87	11.00	1.297	76.68	1.304	0.132	/
		DSI1	Right Cheek	0	39	2441	-0.19	0.041	9.87	11.00	1.297	76.68	1.304	0.069	/
		DSI1	Right Tilt	0	39	2441	-0.06	0.036	9.87	11.00	1.297	76.68	1.304	0.061	/
Hotspot&Body-worn															
DH5	ANT6	DSI4	Front Side	10	39	2441	0.02	0.009	9.87	11.00	1.297	76.68	1.304	0.015	/
		DSI4	Back Side	10	39	2441	0.04	0.014	9.87	11.00	1.297	76.68	1.304	**0.024**	47#
		DSI5	Left Edge	10	39	2441	-0.12	0.010	9.87	11.00	1.297	76.68	1.304	0.017	/
		DSI5	Right Edge	10	39	2441	0.05	0.004	9.87	11.00	1.297	76.68	1.304	0.007	/
		DSI4	Top Edge	10	39	2441	0.01	0.006	9.87	11.00	1.297	76.68	1.304	0.010	/
		DSI4	Bottom Edge	10	39	2441	0.01	0.003	9.87	11.00	1.297	76.68	1.304	0.005	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 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
1880.0	WCDMA band 2	Head	Right Tilt	0.801	Yes	0.800	1.001
1720	LTE band 4	Head	Right Tilt	0.881	Yes	0.870	1.013
1720	LTE band 66	Head	Right Tilt	0.911	Yes	0.902	1.010
2595	LTE band 38	Head	Right Cheek	0.816	Yes	0.810	1.007
2593	LTE band 41	Head	Right Cheek	0.911	Yes	0.901	1.011
5180	WIFI 5.2GHz	Hotspot&Body-worn	Top Edge	1.000	Yes	0.952	1.050
1752.6	WCDMA band 4	Specific	Bottom Edge	2.110	Yes	2.050	1.029
1732.5	LTE band 4	Specific	Bottom Edge	2.220	Yes	2.140	1.037
Note: The ratio of largest to smallest SAR for the original and first repeated measurements is < 1.20, the second repeated measurement. is not required.							

12 SIMULTANEOUS TRANSMISSION

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

12.1 Simultaneous Transmission Mode Consider

No.	Simultaneous Tx Combination	Head	Body-worn	Hotspot	Specific
1	WLAN5G + BT	Yes	Yes	Yes	Yes
2	2G/3G + WLAN	Yes	Yes	Yes	Yes
3	2G/3G + BT	Yes	Yes	Yes	Yes
4	4G + WLAN	Yes	Yes	Yes	Yes
5	4G + BT	Yes	Yes	Yes	Yes
6	WWAN + WLAN2.4GHz SISO	Yes	Yes	Yes	Yes
7	WWAN+ WLAN5GHz SISO	Yes	Yes	Yes	Yes
8	WWAN+ Bluetooth + WLAN5GHz SISO	Yes	Yes	Yes	Yes

Note:

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

12.2 Sum SAR of Simultaneous Transmission

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

Band	Antenna	Position	Stand alone SAR						SUM SAR			
			1	2	3	4	5	6				
			WWAN	2.4GWIFI	5.3GWIFI	5.6GWIFI	5.8GWIFI	Bluetooth	Sum SAR (1+2)	Sum SAR (1+3+6)	Sum SAR (1+4+6)	Sum SAR (1+5+6)
GSM850	ANT4	Left Cheek	0.652	0.805	0.609	0.770	0.697	0.144	1.457	1.405	1.566	1.493
	ANT4	Left Tilt	0.534	0.615	0.629	0.662	0.649	0.132	1.149	1.295	1.328	1.315
	ANT4	Right Cheek	0.728	0.270	0.333	0.446	0.369	0.069	0.998	1.130	1.243	1.166
	ANT4	Right Tilt	0.553	0.250	0.405	0.490	0.445	0.061	0.803	1.019	1.104	1.059
GSM850	ANT0	Left Cheek	0.266	0.805	0.609	0.770	0.697	0.144	1.071	1.019	1.180	1.107
	ANT0	Left Tilt	0.139	0.615	0.629	0.662	0.649	0.132	0.754	0.900	0.933	0.920
	ANT0	Right Cheek	0.295	0.270	0.333	0.446	0.369	0.069	0.565	0.697	0.810	0.733
	ANT0	Right Tilt	0.167	0.250	0.405	0.490	0.445	0.061	0.417	0.633	0.718	0.673
GSM1900	ANT4	Left Cheek	0.488	0.805	0.609	0.770	0.697	0.144	1.293	1.241	1.402	1.329
	ANT4	Left Tilt	0.653	0.615	0.629	0.662	0.649	0.132	1.268	1.414	1.447	1.434
	ANT4	Right Cheek	0.642	0.270	0.333	0.446	0.369	0.069	0.912	1.044	1.157	1.080
	ANT4	Right Tilt	0.734	0.250	0.405	0.490	0.445	0.061	0.984	1.200	1.285	1.240
GSM1900	ANT0	Left Cheek	0.065	0.805	0.609	0.770	0.697	0.144	0.870	0.818	0.979	0.906
	ANT0	Left Tilt	0.050	0.615	0.629	0.662	0.649	0.132	0.665	0.811	0.844	0.831
	ANT0	Right Cheek	0.074	0.270	0.333	0.446	0.369	0.069	0.344	0.476	0.589	0.512
	ANT0	Right Tilt	0.060	0.250	0.405	0.490	0.445	0.061	0.310	0.526	0.611	0.566
WCDMA B2	ANT4	Left Cheek	0.659	0.805	0.609	0.770	0.697	0.144	1.464	1.412	1.573	1.500
	ANT4	Left Tilt	0.794	0.615	0.629	0.662	0.649	0.132	1.409	1.555	1.588	1.575
	ANT4	Right Cheek	0.786	0.270	0.333	0.446	0.369	0.069	1.056	1.188	1.301	1.224
	ANT4	Right Tilt	1.032	0.250	0.405	0.490	0.445	0.061	1.282	1.498	1.583	1.538
WCDMA B2	ANT0	Left Cheek	0.113	0.805	0.609	0.770	0.697	0.144	0.918	0.866	1.027	0.954
	ANT0	Left Tilt	0.090	0.615	0.629	0.662	0.649	0.132	0.705	0.851	0.884	0.871
	ANT0	Right Cheek	0.126	0.270	0.333	0.446	0.369	0.069	0.396	0.528	0.641	0.564
	ANT0	Right Tilt	0.096	0.250	0.405	0.490	0.445	0.061	0.346	0.562	0.647	0.602
WCDMA B4	ANT4	Left Cheek	0.360	0.805	0.609	0.770	0.697	0.144	1.165	1.113	1.274	1.201
	ANT4	Left Tilt	0.496	0.615	0.629	0.662	0.649	0.132	1.111	1.257	1.290	1.277
	ANT4	Right Cheek	0.506	0.270	0.333	0.446	0.369	0.069	0.776	0.908	1.021	0.944
	ANT4	Right Tilt	0.800	0.250	0.405	0.490	0.445	0.061	1.050	1.266	1.351	1.306
WCDMA B4	ANT0	Left Cheek	0.213	0.805	0.609	0.770	0.697	0.144	1.018	0.966	1.127	1.054
	ANT0	Left Tilt	0.160	0.615	0.629	0.662	0.649	0.132	0.775	0.921	0.954	0.941
	ANT0	Right Cheek	0.281	0.270	0.333	0.446	0.369	0.069	0.551	0.683	0.796	0.719
	ANT0	Right Tilt	0.150	0.250	0.405	0.490	0.445	0.061	0.400	0.616	0.701	0.656
WCDMA B5	ANT4	Left Cheek	0.584	0.805	0.609	0.770	0.697	0.144	1.389	1.337	1.498	1.425
	ANT4	Left Tilt	0.498	0.615	0.629	0.662	0.649	0.132	1.113	1.259	1.292	1.279
	ANT4	Right Cheek	0.648	0.270	0.333	0.446	0.369	0.069	0.918	1.050	1.163	1.086
	ANT4	Right Tilt	0.477	0.250	0.405	0.490	0.445	0.061	0.727	0.943	1.028	0.983
	ANT0	Left Cheek	0.245	0.805	0.609	0.770	0.697	0.144	1.050	0.998	1.159	1.086

WCDMA B5	ANT0	Left Tilt	0.116	0.615	0.629	0.662	0.649	0.132	0.731	0.877	0.910	0.897
	ANT0	Right Cheek	0.300	0.270	0.333	0.446	0.369	0.069	0.570	0.702	0.815	0.738
	ANT0	Right Tilt	0.143	0.250	0.405	0.490	0.445	0.061	0.393	0.609	0.694	0.649
LTE B2	ANT4	Left Cheek	0.557	0.805	0.609	0.770	0.697	0.144	1.362	1.310	1.471	1.398
	ANT4	Left Tilt	0.687	0.615	0.629	0.662	0.649	0.132	1.302	1.448	1.481	1.468
	ANT4	Right Cheek	0.723	0.270	0.333	0.446	0.369	0.069	0.993	1.125	1.238	1.161
	ANT4	Right Tilt	0.717	0.250	0.405	0.490	0.445	0.061	0.967	1.183	1.268	1.223
LTE B2	ANT0	Left Cheek	0.109	0.805	0.609	0.770	0.697	0.144	0.914	0.862	1.023	0.950
	ANT0	Left Tilt	0.085	0.615	0.629	0.662	0.649	0.132	0.700	0.846	0.879	0.866
	ANT0	Right Cheek	0.140	0.270	0.333	0.446	0.369	0.069	0.410	0.542	0.655	0.578
	ANT0	Right Tilt	0.094	0.250	0.405	0.490	0.445	0.061	0.344	0.560	0.645	0.600
LTE B4	ANT4	Left Cheek	0.537	0.805	0.609	0.770	0.697	0.144	1.342	1.290	1.451	1.378
	ANT4	Left Tilt	0.749	0.615	0.629	0.662	0.649	0.132	1.364	1.510	1.543	1.530
	ANT4	Right Cheek	0.718	0.270	0.333	0.446	0.369	0.069	0.988	1.120	1.233	1.156
	ANT4	Right Tilt	0.889	0.250	0.405	0.490	0.445	0.061	1.139	1.355	1.440	1.395
LTE B4	ANT0	Left Cheek	0.248	0.805	0.609	0.770	0.697	0.144	1.053	1.001	1.162	1.089
	ANT0	Left Tilt	0.182	0.615	0.629	0.662	0.649	0.132	0.797	0.943	0.976	0.963
	ANT0	Right Cheek	0.338	0.270	0.333	0.446	0.369	0.069	0.608	0.740	0.853	0.776
	ANT0	Right Tilt	0.184	0.250	0.405	0.490	0.445	0.061	0.434	0.650	0.735	0.690
LTE B5	ANT4	Left Cheek	0.647	0.805	0.609	0.770	0.697	0.144	1.452	1.400	1.561	1.488
	ANT4	Left Tilt	0.535	0.615	0.629	0.662	0.649	0.132	1.150	1.296	1.329	1.316
	ANT4	Right Cheek	0.713	0.270	0.333	0.446	0.369	0.069	0.983	1.115	1.228	1.151
	ANT4	Right Tilt	0.516	0.250	0.405	0.490	0.445	0.061	0.766	0.982	1.067	1.022
LTE B5	ANT0	Left Cheek	0.233	0.805	0.609	0.770	0.697	0.144	1.038	0.986	1.147	1.074
	ANT0	Left Tilt	0.119	0.615	0.629	0.662	0.649	0.132	0.734	0.880	0.913	0.900
	ANT0	Right Cheek	0.260	0.270	0.333	0.446	0.369	0.069	0.530	0.662	0.775	0.698
	ANT0	Right Tilt	0.138	0.250	0.405	0.490	0.445	0.061	0.388	0.604	0.689	0.644
LTE B7	ANT4	Left Cheek	0.423	0.805	0.609	0.770	0.697	0.144	1.228	1.176	1.337	1.264
	ANT4	Left Tilt	0.511	0.615	0.629	0.662	0.649	0.132	1.126	1.272	1.305	1.292
	ANT4	Right Cheek	0.678	0.270	0.333	0.446	0.369	0.069	0.948	1.080	1.193	1.116
	ANT4	Right Tilt	0.581	0.250	0.405	0.490	0.445	0.061	0.831	1.047	1.132	1.087
LTE B7	ANT0	Left Cheek	0.306	0.805	0.609	0.770	0.697	0.144	1.111	1.059	1.220	1.147
	ANT0	Left Tilt	0.139	0.615	0.629	0.662	0.649	0.132	0.754	0.900	0.933	0.920
	ANT0	Right Cheek	0.142	0.270	0.333	0.446	0.369	0.069	0.412	0.544	0.657	0.580
	ANT0	Right Tilt	0.087	0.250	0.405	0.490	0.445	0.061	0.337	0.553	0.638	0.593
LTE B12	ANT4	Left Cheek	0.489	0.805	0.609	0.770	0.697	0.144	1.294	1.242	1.403	1.330
	ANT4	Left Tilt	0.444	0.615	0.629	0.662	0.649	0.132	1.059	1.205	1.238	1.225
	ANT4	Right Cheek	0.572	0.270	0.333	0.446	0.369	0.069	0.842	0.974	1.087	1.010
	ANT4	Right Tilt	0.471	0.250	0.405	0.490	0.445	0.061	0.721	0.937	1.022	0.977
LTE B12	ANT0	Left Cheek	0.169	0.805	0.609	0.770	0.697	0.144	0.974	0.922	1.083	1.010
	ANT0	Left Tilt	0.087	0.615	0.629	0.662	0.649	0.132	0.702	0.848	0.881	0.868
	ANT0	Right Cheek	0.161	0.270	0.333	0.446	0.369	0.069	0.431	0.563	0.676	0.599
	ANT0	Right Tilt	0.100	0.250	0.405	0.490	0.445	0.061	0.350	0.566	0.651	0.606
LTE B13	ANT4	Left Cheek	0.269	0.805	0.609	0.770	0.697	0.144	1.074	1.022	1.183	1.110
	ANT4	Left Tilt	0.250	0.615	0.629	0.662	0.649	0.132	0.865	1.011	1.044	1.031

	ANT4	Right Cheek	0.313	0.270	0.333	0.446	0.369	0.069	0.583	0.715	0.828	0.751
	ANT4	Right Tilt	0.259	0.250	0.405	0.490	0.445	0.061	0.509	0.725	0.810	0.765
LTE B13	ANT0	Left Cheek	0.127	0.805	0.609	0.770	0.697	0.144	0.932	0.880	1.041	0.968
	ANT0	Left Tilt	0.071	0.615	0.629	0.662	0.649	0.132	0.686	0.832	0.865	0.852
	ANT0	Right Cheek	0.147	0.270	0.333	0.446	0.369	0.069	0.417	0.549	0.662	0.585
	ANT0	Right Tilt	0.080	0.250	0.405	0.490	0.445	0.061	0.330	0.546	0.631	0.586
LTE B26	ANT4	Left Cheek	0.657	0.805	0.609	0.770	0.697	0.144	1.462	1.410	1.571	1.498
	ANT4	Left Tilt	0.533	0.615	0.629	0.662	0.649	0.132	1.148	1.294	1.327	1.314
	ANT4	Right Cheek	0.700	0.270	0.333	0.446	0.369	0.069	0.970	1.102	1.215	1.138
	ANT4	Right Tilt	0.503	0.250	0.405	0.490	0.445	0.061	0.753	0.969	1.054	1.009
LTE B26	ANT0	Left Cheek	0.136	0.805	0.609	0.770	0.697	0.144	0.941	0.889	1.050	0.977
	ANT0	Left Tilt	0.081	0.615	0.629	0.662	0.649	0.132	0.696	0.842	0.875	0.862
	ANT0	Right Cheek	0.170	0.270	0.333	0.446	0.369	0.069	0.440	0.572	0.685	0.608
	ANT0	Right Tilt	0.097	0.250	0.405	0.490	0.445	0.061	0.347	0.563	0.648	0.603
LTE B66	ANT4	Left Cheek	0.577	0.805	0.609	0.770	0.697	0.144	1.382	1.330	1.491	1.418
	ANT4	Left Tilt	0.732	0.615	0.629	0.662	0.649	0.132	1.347	1.493	1.526	1.513
	ANT4	Right Cheek	0.714	0.270	0.333	0.446	0.369	0.069	0.984	1.116	1.229	1.152
	ANT4	Right Tilt	0.915	0.250	0.405	0.490	0.445	0.061	1.165	1.381	1.466	1.421
LTE B66	ANT0	Left Cheek	0.269	0.805	0.609	0.770	0.697	0.144	1.074	1.022	1.183	1.110
	ANT0	Left Tilt	0.197	0.615	0.629	0.662	0.649	0.132	0.812	0.958	0.991	0.978
	ANT0	Right Cheek	0.352	0.270	0.333	0.446	0.369	0.069	0.622	0.754	0.867	0.790
	ANT0	Right Tilt	0.197	0.250	0.405	0.490	0.445	0.061	0.447	0.663	0.748	0.703
LTE B38	ANT4	Left Cheek	0.531	0.805	0.609	0.770	0.697	0.144	1.336	1.284	1.445	1.372
	ANT4	Left Tilt	0.659	0.615	0.629	0.662	0.649	0.132	1.274	1.420	1.453	1.440
	ANT4	Right Cheek	0.995	0.270	0.333	0.446	0.369	0.069	1.265	1.397	1.510	1.433
	ANT4	Right Tilt	0.798	0.250	0.405	0.490	0.445	0.061	1.048	1.264	1.349	1.304
LTE B38	ANT0	Left Cheek	0.170	0.805	0.609	0.770	0.697	0.144	0.975	0.923	1.084	1.011
	ANT0	Left Tilt	0.079	0.615	0.629	0.662	0.649	0.132	0.694	0.840	0.873	0.860
	ANT0	Right Cheek	0.093	0.270	0.333	0.446	0.369	0.069	0.363	0.495	0.608	0.531
	ANT0	Right Tilt	0.062	0.250	0.405	0.490	0.445	0.061	0.312	0.528	0.613	0.568
LTE B41	ANT4	Left Cheek	0.627	0.522	0.609	0.770	0.697	0.144	1.149	1.380	1.541	1.468
	ANT4	Left Tilt	0.768	0.406	0.629	0.662	0.649	0.132	1.174	1.529	1.562	1.549
	ANT4	Right Cheek	1.075	0.185	0.333	0.446	0.369	0.069	1.260	1.477	**1.590**	1.513
	ANT4	Right Tilt	0.991	0.171	0.405	0.490	0.445	0.061	1.162	1.457	1.542	1.497
LTE B41	ANT0	Left Cheek	0.130	0.522	0.609	0.770	0.697	0.144	0.652	0.883	1.044	0.971
	ANT0	Left Tilt	0.061	0.406	0.629	0.662	0.649	0.132	0.467	0.822	0.855	0.842
	ANT0	Right Cheek	0.073	0.185	0.333	0.446	0.369	0.069	0.258	0.475	0.588	0.511
	ANT0	Right Tilt	0.053	0.171	0.405	0.490	0.445	0.061	0.224	0.519	0.604	0.559

Note:

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

2: The highest Summed 1g SAR is 1.59 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.2 Hotspot&Body-worn Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

Band	Antenna	Position	Stand alone SAR					SUM SAR		
			1	2	3	5	6			
			WWAN	2.4GWIFI	5.2GWIFI	5.8GWIFI	Bluetooth	Sum SAR (1+2)	Sum SAR (1+3+6)	Sum SAR (1+5+6)
GSM850	ANT4	Front Side 10mm	0.114	0.092	0.440	0.382	0.015	0.206	0.569	0.511
	ANT4	Back Side 10mm	0.227	0.111	0.703	0.437	0.024	0.338	0.954	0.688
	ANT4	Right Edge 10mm	0.362	0.004	0.013	0.010	0.007	0.366	0.382	0.379
	ANT4	Top Edge 10mm	0.314	0.084	1.079	0.568	0.010	0.398	1.403	0.892
GSM850	ANT0	Front Side 10mm	0.260	0.092	0.440	0.382	0.015	0.352	0.715	0.657
	ANT0	Back Side 10mm	0.451	0.111	0.703	0.437	0.024	0.562	1.178	0.912
	ANT0	Left Edge 10mm	0.256	0.107	0.324	0.186	0.017	0.363	0.597	0.459
	ANT0	Bottom Edge 10mm	0.383	0.003	0.010	0.008	0.005	0.386	0.398	0.396
GSM1900	ANT4	Front Side 10mm	0.206	0.092	0.440	0.382	0.015	0.298	0.661	0.603
	ANT4	Back Side 10mm	0.256	0.111	0.703	0.437	0.024	0.367	0.983	0.717
	ANT4	Right Edge 10mm	0.163	0.004	0.013	0.010	0.007	0.167	0.183	0.180
	ANT4	Top Edge 10mm	0.451	0.084	1.079	0.568	0.010	0.535	1.540	1.029
GSM1900	ANT0	Front Side 10mm	0.223	0.092	0.440	0.382	0.015	0.315	0.678	0.620
	ANT0	Back Side 10mm	0.446	0.111	0.703	0.437	0.024	0.557	1.173	0.907
	ANT0	Left Edge 10mm	0.070	0.107	0.324	0.186	0.017	0.177	0.411	0.273
	ANT0	Bottom Edge 10mm	0.486	0.003	0.010	0.008	0.005	0.489	0.501	0.499
WCDMA B2	ANT4	Front Side 10mm	0.149	0.092	0.440	0.382	0.015	0.241	0.604	0.546
	ANT4	Back Side 10mm	0.177	0.111	0.703	0.437	0.024	0.288	0.904	0.638
	ANT4	Right Edge 10mm	0.412	0.004	0.013	0.010	0.007	0.416	0.432	0.429
	ANT4	Top Edge 10mm	0.427	0.084	1.079	0.568	0.010	0.511	1.516	1.005
WCDMA B2	ANT0	Front Side 10mm	0.137	0.092	0.440	0.382	0.015	0.229	0.592	0.534
	ANT0	Back Side 10mm	0.292	0.111	0.703	0.437	0.024	0.403	1.019	0.753
	ANT0	Left Edge 10mm	0.098	0.107	0.324	0.186	0.017	0.205	0.439	0.301
	ANT0	Bottom Edge 10mm	0.311	0.003	0.010	0.008	0.005	0.314	0.326	0.324
WCDMA B4	ANT4	Front Side 10mm	0.092	0.092	0.440	0.382	0.015	0.184	0.547	0.489
	ANT4	Back Side 10mm	0.123	0.111	0.703	0.437	0.024	0.234	0.850	0.584
	ANT4	Right Edge 10mm	0.245	0.004	0.013	0.010	0.007	0.249	0.265	0.262
	ANT4	Top Edge 10mm	0.203	0.084	1.079	0.568	0.010	0.287	1.292	0.781
WCDMA B4	ANT0	Front Side 10mm	0.295	0.092	0.440	0.382	0.015	0.387	0.750	0.692
	ANT0	Back Side 10mm	0.731	0.111	0.703	0.437	0.024	0.842	1.458	1.192
	ANT0	Left Edge 10mm	0.226	0.107	0.324	0.186	0.017	0.333	0.567	0.429
	ANT0	Bottom Edge 10mm	0.977	0.003	0.010	0.008	0.005	0.980	0.992	0.990
WCDMA B5	ANT4	Front Side 10mm	0.223	0.092	0.440	0.382	0.015	0.315	0.678	0.620
	ANT4	Back Side 10mm	0.370	0.111	0.703	0.437	0.024	0.481	1.097	0.831
	ANT4	Right Edge 10mm	0.142	0.004	0.013	0.010	0.007	0.146	0.162	0.159
	ANT4	Top Edge 10mm	0.230	0.084	1.079	0.568	0.010	0.314	1.319	0.808
WCDMA B5	ANT0	Front Side 10mm	0.291	0.092	0.440	0.382	0.015	0.383	0.746	0.688
	ANT0	Back Side 10mm	0.487	0.111	0.703	0.437	0.024	0.598	1.214	0.948
	ANT0	Left Edge 10mm	0.240	0.107	0.324	0.186	0.017	0.347	0.581	0.443

	ANT0	Bottom Edge 10mm	0.397	0.003	0.010	0.008	0.005	0.400	0.412	0.410
LTE B2	ANT4	Front Side 10mm	0.207	0.092	0.440	0.382	0.015	0.299	0.662	0.604
	ANT4	Back Side 10mm	0.234	0.111	0.703	0.437	0.024	0.345	0.961	0.695
	ANT4	Right Edge 10mm	0.643	0.004	0.013	0.010	0.007	0.647	0.663	0.660
	ANT4	Top Edge 10mm	0.419	0.084	1.079	0.568	0.010	0.503	1.508	0.997
LTE B2	ANT0	Front Side 10mm	0.213	0.092	0.440	0.382	0.015	0.305	0.668	0.610
	ANT0	Back Side 10mm	0.461	0.111	0.703	0.437	0.024	0.572	1.188	0.922
	ANT0	Left Edge 10mm	0.118	0.107	0.324	0.186	0.017	0.225	0.459	0.321
	ANT0	Bottom Edge 10mm	0.519	0.003	0.010	0.008	0.005	0.522	0.534	0.532
LTE B4	ANT4	Front Side 10mm	0.115	0.092	0.440	0.382	0.015	0.207	0.570	0.512
	ANT4	Back Side 10mm	0.132	0.111	0.703	0.437	0.024	0.243	0.859	0.593
	ANT4	Right Edge 10mm	0.185	0.004	0.013	0.010	0.007	0.189	0.205	0.202
	ANT4	Top Edge 10mm	0.244	0.084	1.079	0.568	0.010	0.328	1.333	0.822
LTE B4	ANT0	Front Side 10mm	0.294	0.092	0.440	0.382	0.015	0.386	0.749	0.691
	ANT0	Back Side 10mm	0.699	0.111	0.703	0.437	0.024	0.810	1.426	1.160
	ANT0	Left Edge 10mm	0.196	0.107	0.324	0.186	0.017	0.303	0.537	0.399
	ANT0	Bottom Edge 10mm	0.886	0.003	0.010	0.008	0.005	0.889	0.901	0.899
LTE B5	ANT4	Front Side 10mm	0.243	0.092	0.440	0.382	0.015	0.335	0.698	0.640
	ANT4	Back Side 10mm	0.387	0.111	0.703	0.437	0.024	0.498	1.114	0.848
	ANT4	Right Edge 10mm	0.129	0.004	0.013	0.010	0.007	0.133	0.149	0.146
	ANT4	Top Edge 10mm	0.291	0.084	1.079	0.568	0.010	0.375	1.380	0.869
LTE B5	ANT0	Front Side 10mm	0.278	0.092	0.440	0.382	0.015	0.370	0.733	0.675
	ANT0	Back Side 10mm	0.464	0.111	0.703	0.437	0.024	0.575	1.191	0.925
	ANT0	Left Edge 10mm	0.234	0.107	0.324	0.186	0.017	0.341	0.575	0.437
	ANT0	Bottom Edge 10mm	0.402	0.003	0.010	0.008	0.005	0.405	0.417	0.415
LTE B7	ANT4	Front Side 10mm	0.186	0.092	0.440	0.382	0.015	0.278	0.641	0.583
	ANT4	Back Side 10mm	0.307	0.111	0.703	0.437	0.024	0.418	1.034	0.768
	ANT4	Right Edge 10mm	0.303	0.004	0.013	0.010	0.007	0.307	0.323	0.320
	ANT4	Top Edge 10mm	0.482	0.084	1.079	0.568	0.010	0.566	1.571	1.060
LTE B7	ANT0	Front Side 10mm	0.246	0.092	0.440	0.382	0.015	0.338	0.701	0.643
	ANT0	Back Side 10mm	0.477	0.111	0.703	0.437	0.024	0.588	1.204	0.938
	ANT0	Left Edge 10mm	0.150	0.107	0.324	0.186	0.017	0.257	0.491	0.353
	ANT0	Bottom Edge 10mm	0.388	0.003	0.010	0.008	0.005	0.391	0.403	0.401
LTE B12	ANT4	Front Side 10mm	0.118	0.092	0.440	0.382	0.015	0.210	0.573	0.515
	ANT4	Back Side 10mm	0.194	0.111	0.703	0.437	0.024	0.305	0.921	0.655
	ANT4	Right Edge 10mm	0.157	0.004	0.013	0.010	0.007	0.161	0.177	0.174
	ANT4	Top Edge 10mm	0.094	0.084	1.079	0.568	0.010	0.178	1.183	0.672
LTE B12	ANT0	Front Side 10mm	0.137	0.092	0.440	0.382	0.015	0.229	0.592	0.534
	ANT0	Back Side 10mm	0.229	0.111	0.703	0.437	0.024	0.340	0.956	0.690
	ANT0	Left Edge 10mm	0.216	0.107	0.324	0.186	0.017	0.323	0.557	0.419
	ANT0	Bottom Edge 10mm	0.188	0.003	0.010	0.008	0.005	0.191	0.203	0.201
LTE B13	ANT4	Front Side 10mm	0.086	0.092	0.440	0.382	0.015	0.178	0.541	0.483
	ANT4	Back Side 10mm	0.130	0.111	0.703	0.437	0.024	0.241	0.857	0.591
	ANT4	Right Edge 10mm	0.104	0.004	0.013	0.010	0.007	0.108	0.124	0.121
	ANT4	Top Edge 10mm	0.109	0.084	1.079	0.568	0.010	0.193	1.198	0.687

LTE B13	ANT0	Front Side 10mm	0.151	0.092	0.440	0.382	0.015	0.243	0.606	0.548
	ANT0	Back Side 10mm	0.265	0.111	0.703	0.437	0.024	0.376	0.992	0.726
	ANT0	Left Edge 10mm	0.224	0.107	0.324	0.186	0.017	0.331	0.565	0.427
	ANT0	Bottom Edge 10mm	0.203	0.003	0.010	0.008	0.005	0.206	0.218	0.216
LTE B26	ANT4	Front Side 10mm	0.216	0.092	0.440	0.382	0.015	0.308	0.671	0.613
	ANT4	Back Side 10mm	0.345	0.111	0.703	0.437	0.024	0.456	1.072	0.806
	ANT4	Right Edge 10mm	0.111	0.004	0.013	0.010	0.007	0.115	0.131	0.128
	ANT4	Top Edge 10mm	0.225	0.084	1.079	0.568	0.010	0.309	1.314	0.803
LTE B26	ANT0	Front Side 10mm	0.255	0.092	0.440	0.382	0.015	0.347	0.710	0.652
	ANT0	Back Side 10mm	0.444	0.111	0.703	0.437	0.024	0.555	1.171	0.905
	ANT0	Left Edge 10mm	0.211	0.107	0.324	0.186	0.017	0.318	0.552	0.414
	ANT0	Bottom Edge 10mm	0.352	0.003	0.010	0.008	0.005	0.355	0.367	0.365
LTE B66	ANT4	Front Side 10mm	0.213	0.092	0.440	0.382	0.015	0.305	0.668	0.610
	ANT4	Back Side 10mm	0.258	0.111	0.703	0.437	0.024	0.369	0.985	0.719
	ANT4	Right Edge 10mm	0.212	0.004	0.013	0.010	0.007	0.216	0.232	0.229
	ANT4	Top Edge 10mm	0.486	0.084	1.079	0.568	0.010	0.570	1.575	1.064
LTE B66	ANT0	Front Side 10mm	0.211	0.092	0.440	0.382	0.015	0.303	0.666	0.608
	ANT0	Back Side 10mm	0.510	0.111	0.703	0.437	0.024	0.621	1.237	0.971
	ANT0	Left Edge 10mm	0.213	0.107	0.324	0.186	0.017	0.320	0.554	0.416
	ANT0	Bottom Edge 10mm	0.645	0.003	0.010	0.008	0.005	0.648	0.660	0.658
LTE B38	ANT4	Front Side 10mm	0.165	0.092	0.440	0.382	0.015	0.257	0.620	0.562
	ANT4	Back Side 10mm	0.322	0.111	0.703	0.437	0.024	0.433	1.049	0.783
	ANT4	Right Edge 10mm	0.236	0.004	0.013	0.010	0.007	0.240	0.256	0.253
	ANT4	Top Edge 10mm	0.496	0.084	1.079	0.568	0.010	0.580	**1.585**	1.074
LTE B38	ANT0	Front Side 10mm	0.213	0.092	0.440	0.382	0.015	0.305	0.668	0.610
	ANT0	Back Side 10mm	0.455	0.111	0.703	0.437	0.024	0.566	1.182	0.916
	ANT0	Left Edge 10mm	0.062	0.107	0.324	0.186	0.017	0.169	0.403	0.265
	ANT0	Bottom Edge 10mm	0.309	0.003	0.010	0.008	0.005	0.312	0.324	0.322
LTE B41	ANT4	Front Side 10mm	0.151	0.092	0.440	0.382	0.015	0.243	0.606	0.548
	ANT4	Back Side 10mm	0.239	0.111	0.703	0.437	0.024	0.350	0.966	0.700
	ANT4	Right Edge 10mm	0.147	0.004	0.013	0.010	0.007	0.151	0.167	0.164
	ANT4	Top Edge 10mm	0.389	0.084	1.079	0.568	0.010	0.473	1.478	0.967
LTE B41	ANT0	Front Side 10mm	0.215	0.092	0.440	0.382	0.015	0.307	0.670	0.612
	ANT0	Back Side 10mm	0.370	0.111	0.703	0.437	0.024	0.481	1.097	0.831
	ANT0	Left Edge 10mm	0.047	0.107	0.324	0.186	0.017	0.154	0.388	0.250
	ANT0	Bottom Edge 10mm	0.311	0.003	0.010	0.008	0.005	0.314	0.326	0.324

Note:

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

2: The highest Summed 1g SAR is 1.585 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

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

Band	Antenna	Position	Stand alone SAR			SUM SAR		
			1	3	4			
			WWAN	5.3GWIFI	5.6GWIFI	Sum SAR (1+2)	Sum SAR (1+3+6)	Sum SAR (1+4+6)
WCDMA B2 WCDMA B4 WCDMA B4	ANT4	Top Edge 0mm	1.703	1.788	1.571	1.703	3.491	3.274
	ANT4	Top Edge 0mm	1.534	1.788	1.571	1.534	3.322	3.105
	ANT0	Back Side 0mm	2.128	0.769	0.552	2.128	2.897	2.680
	ANT0	Bottom Edge 0mm	2.596	0.028	0.022	2.596	2.624	2.618
LTE B2 LTE B4	ANT4	Top Edge 0mm	1.626	1.788	1.571	1.626	3.414	3.197
	ANT0	Back Side 0mm	2.336	0.769	0.552	2.336	3.105	2.888
	ANT0	Bottom Edge 0mm	2.675	0.028	0.022	2.675	2.703	2.697
LTE B7	ANT4	Top Edge 0mm	1.806	1.788	1.571	1.806	**3.594**	3.377
	ANT4	Back Side 0mm	1.541	0.769	0.552	1.541	2.310	2.093
	ANT4	Top Edge 0mm	1.730	1.788	1.571	1.730	3.518	3.301

Note:

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

2: The highest Summed 10g SAR is 3.594 W/Kg < 4.0 W/kg, so Simultaneous Transmission SAR test is not required.

13 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	Speag	DASY5	52.8.8.1222	N/A	N/A
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
5GHz Validation Dipole	Speag	D5GHzV2	SN: 1200	2021/05/18	2024/05/17
E-Field Probe	Speag	EX3DV4	SN: 7607	2021/08/12	2022/08/11
Data Acquisition Electronics	Speag	DAE4	SN: 1454	2021/11/05	2022/11/04
Signal Generator	R&S	SMB100A	177746	2021/08/24	2022/08/23
Power Meter	R&S	NRVD-B2	7250BJ-0112/2011	2021/09/08	2022/09/07
Power Sensor	R&S	NRV-Z4	100381	2021/09/08	2022/09/07
Power Sensor	R&S	NRV-Z2	100211	2021/09/08	2022/09/07
Wireless Communication Test Set	Anritsu	MT8820C	6201502974	2021/03/16	2022/03/15
Wireless Communication Test Set	Anritsu	MT8820C	6201502991	2021/03/16	2022/03/15
Network Analyzer	Agilent	E5071B	MY42404001	2021/04/01	2022/03/31
Thermometer	Elitech	RC-4HC	EF720B004820	2021/12/01	2022/11/30
Power Amplifier	SATIMO	6552B	22374	N/A	N/A
Dielectric Probe Kit	SATIMO	SCLMP	SN 25/13 OCPG56	N/A	N/A
Phantom1	Speag	SAM	SN: 1859	N/A	N/A
Phantom2	Speag	SAM	SN: 1857	N/A	N/A
Attenuator	COM-MW	ZA-S1-31	1305003187	N/A	N/A
Directional coupler	AA-MCS	AAMCS-UDC	000272	N/A	N/A

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

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

ANNEX A SIMULATING LIQUID VERIFICATION RESULT

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

Head Liquid

Date	Liquid Type	Fre. (MHz)	Temp. (℃)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ε)	Target Conductivity (σ) (S/m)	Target Permittivity (ε)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2021.12.03	Head	750	21.3	0.90	41.63	0.89	41.94	1.12	-0.74
2021.12.04	Head	750	21.1	0.90	41.72	0.89	41.94	1.12	-0.52
2021.12.05	Head	835	21.2	0.90	41.89	0.90	41.50	0.00	0.94
2021.12.08	Head	835	21.5	0.90	41.94	0.90	41.50	0.00	1.06
2021.12.07	Head	1750	21.3	1.38	40.02	1.37	40.08	0.73	-0.15
2021.12.10	Head	1750	21.0	1.38	40.13	1.37	40.08	0.73	0.12
2021.12.12	Head	1750	21.3	1.38	39.99	1.37	40.08	0.73	-0.22
2021.12.06	Head	1900	21.4	1.39	39.96	1.40	40.00	-0.71	-0.10
2021.12.09	Head	1900	21.2	1.39	40.00	1.40	40.00	-0.71	0.00
2021.12.15	Head	2450	21.3	1.80	39.62	1.80	39.20	0.00	1.07
2021.12.31	Head	2450	21.2	1.78	39.98	1.80	39.20	-1.11	1.99
2021.12.11	Head	2600	21.2	1.98	38.60	1.96	39.01	1.02	-1.05
2021.12.13	Head	2600	21.1	1.98	38.38	1.96	39.01	1.02	-1.61
2021.12.14	Head	2600	21.3	1.98	38.43	1.96	39.01	1.02	-1.49
2021.12.16	Head	5250	21.1	4.70	35.79	4.66	35.99	0.86	-0.56
2021.12.17	Head	5600	21.2	5.09	35.53	5.07	35.53	0.39	0.00
2021.12.20	Head	5750	21.3	5.18	35.49	5.27	35.30	-1.71	0.54
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 (%)
2021.12.03	Head	750	100	0.824	8.24	8.29	-0.60
2021.12.04	Head	750	100	0.859	8.59	8.29	3.62
2021.12.05	Head	835	100	0.952	9.52	9.49	0.32
2021.12.08	Head	835	100	0.934	9.34	9.49	-1.58
2021.12.07	Head	1750	100	3.730	37.30	36.80	1.36
2021.12.10	Head	1750	100	3.610	36.10	36.80	-1.90
2021.12.12	Head	1750	100	3.770	37.70	36.80	2.45
2021.12.06	Head	1900	100	4.080	40.80	39.40	3.55
2021.12.09	Head	1900	100	3.970	39.70	39.40	0.76
2021.12.15	Head	2450	100	5.250	52.50	52.60	-0.19
2021.12.11	Head	2600	100	5.610	56.10	56.30	-0.36
2021.12.13	Head	2600	100	5.490	54.90	56.30	-2.49
2021.12.14	Head	2600	100	5.560	55.60	56.30	-1.24
2021.12.16	Head	5250	100	7.540	75.40	73.90	2.03
2021.12.17	Head	5600	100	8.410	84.10	80.30	4.73
2021.12.20	Head	5750	100	7.760	77.60	76.90	0.91
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 (%)
2021.12.07	1750	100	1.920	19.20	19.10	0.52
2021.12.10	1750	100	1.880	18.80	19.10	-1.57
2021.12.12	1750	100	1.980	19.80	19.10	3.66
2021.12.06	1900	100	2.090	20.90	20.40	2.45
2021.12.09	1900	100	2.030	20.30	20.40	-0.49
2021.12.11	2600	100	2.470	24.70	25.10	-1.59
2021.12.16	5250	100	2.150	21.50	20.70	3.86
2021.12.17	5600	100	2.360	23.60	22.60	4.42
Note: The tolerance limit of System validation ±10%.						

System Performance Check Data (750MHz Head)

Date: 2021.12.03

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

Medium parameters used (extrapolated): f = 750 MHz; σ = 0.903 S/m; ε_r = 41.632; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.1 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(10.73, 10.73, 10.73); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 0.858 W/kg

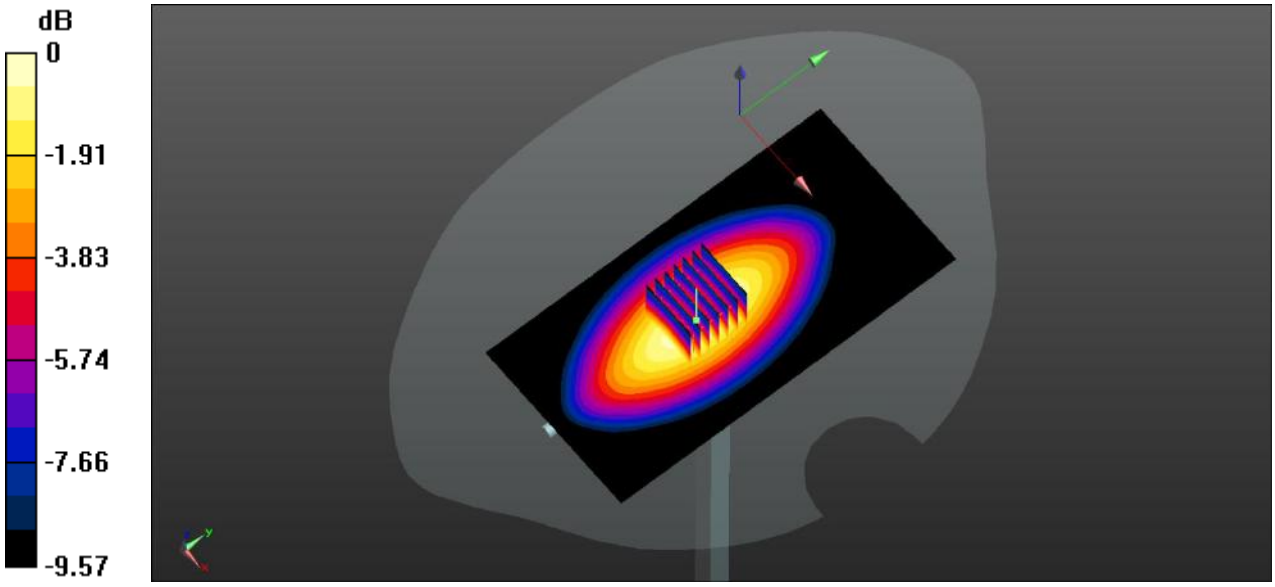
CW 750 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.52 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.824 W/kg; SAR(10 g) = 0.535 W/kg

Maximum value of SAR (measured) = 0.865 W/kg



0 dB = 0.865 W/kg

System Performance Check Data (750MHz Head)

Date: 2021.12.04

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

Medium parameters used (extrapolated): f = 750 MHz; σ = 0.904 S/m; ε_r = 41.715; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(10.73, 10.73, 10.73); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 0.907 W/kg

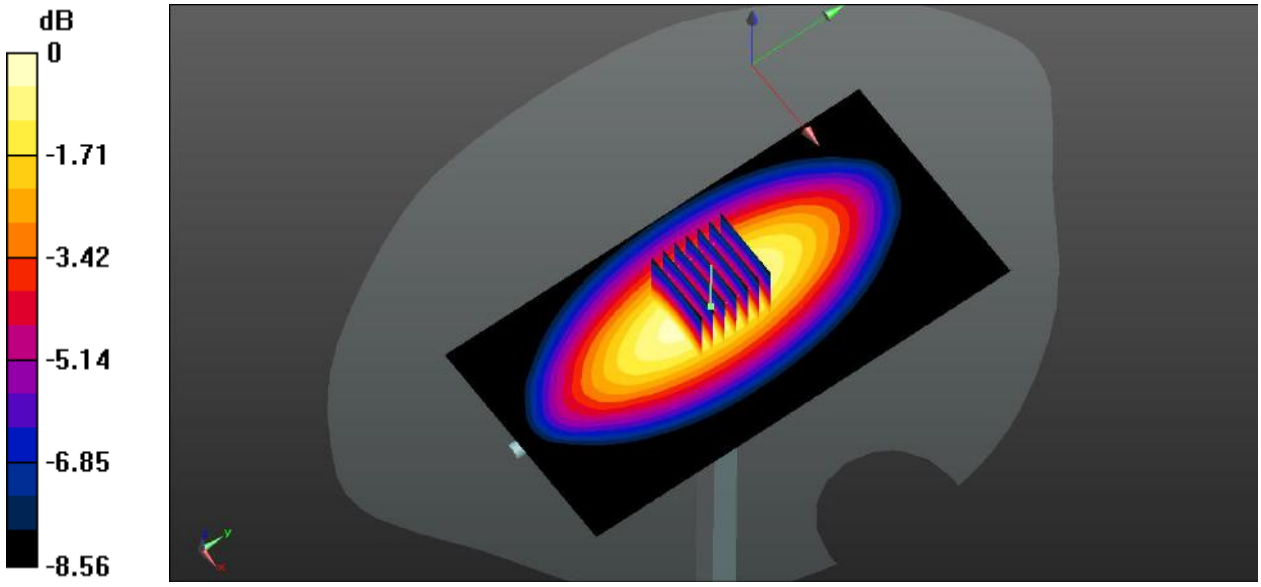
CW 750 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.05 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.859 W/kg; SAR(10 g) = 0.557 W/kg

Maximum value of SAR (measured) = 0.917 W/kg



0 dB = 0.917 W/kg

System Performance Check Data (835MHz Head)

Date: 2021.12.05

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

Medium parameters used: f = 835 MHz; σ = 0.895 S/m; ε_r = 41.889; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(10.3, 10.3, 10.3); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 835 100mW/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

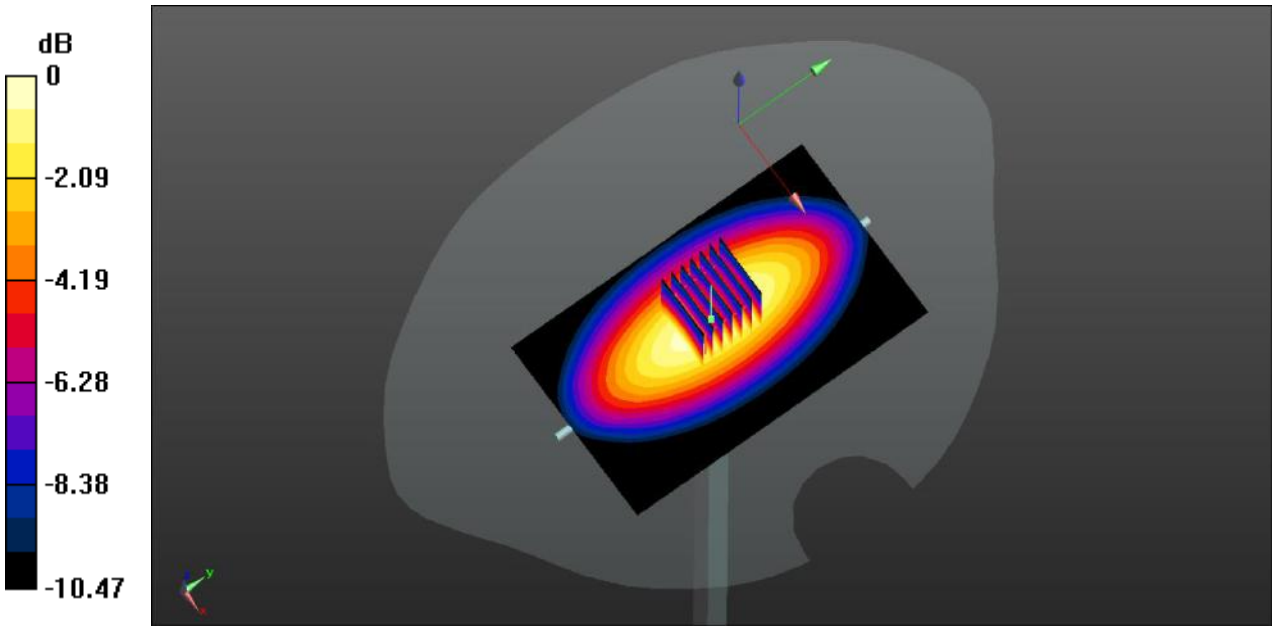
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 33.18 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.952 W/kg; SAR(10 g) = 0.622 W/kg

Maximum value of SAR (measured) = 1.05 W/kg



0 dB = 1.05 W/kg

System Performance Check Data (835MHz Head)

Date: 2021.12.08

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

Medium parameters used: f = 835 MHz; σ = 0.901 S/m; ε_r = 41.94; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(10.3, 10.3, 10.3); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 0.981 W/kg

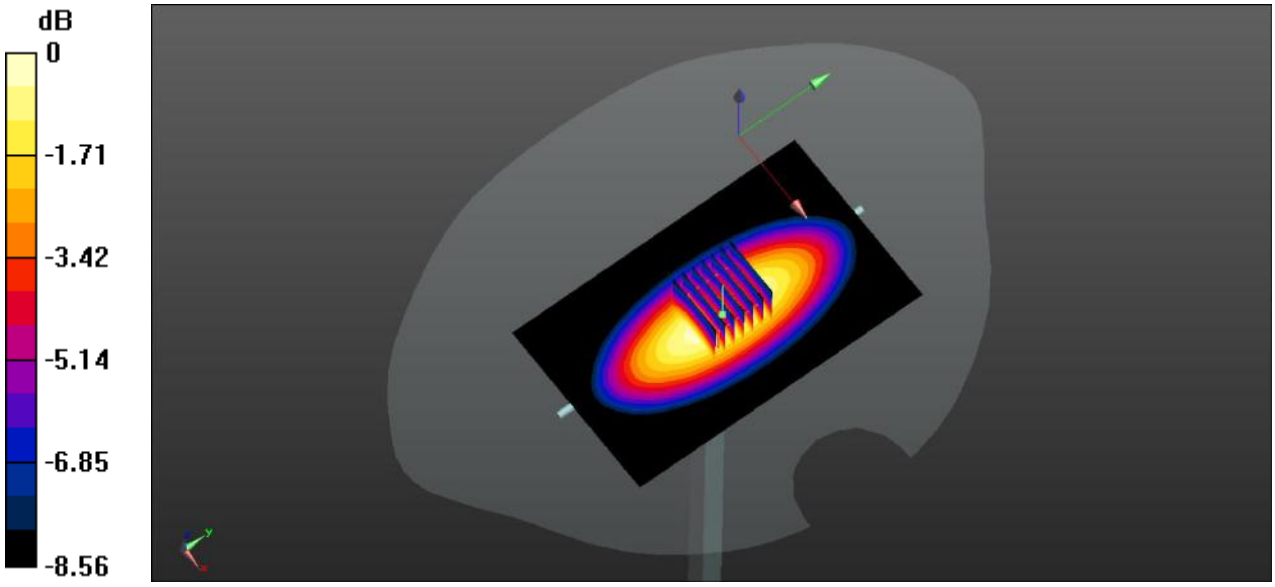
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.06 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.934 W/kg; SAR(10 g) = 0.617 W/kg

Maximum value of SAR (measured) = 0.986 W/kg



0 dB = 0.986 W/kg

System Performance Check Data (1750MHz Head)

Date: 2021.12.07

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

Medium parameters used: f = 1750 MHz; σ = 1.376 S/m; ε_r = 40.021; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(8.54, 8.54, 8.54); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 4.22 W/kg

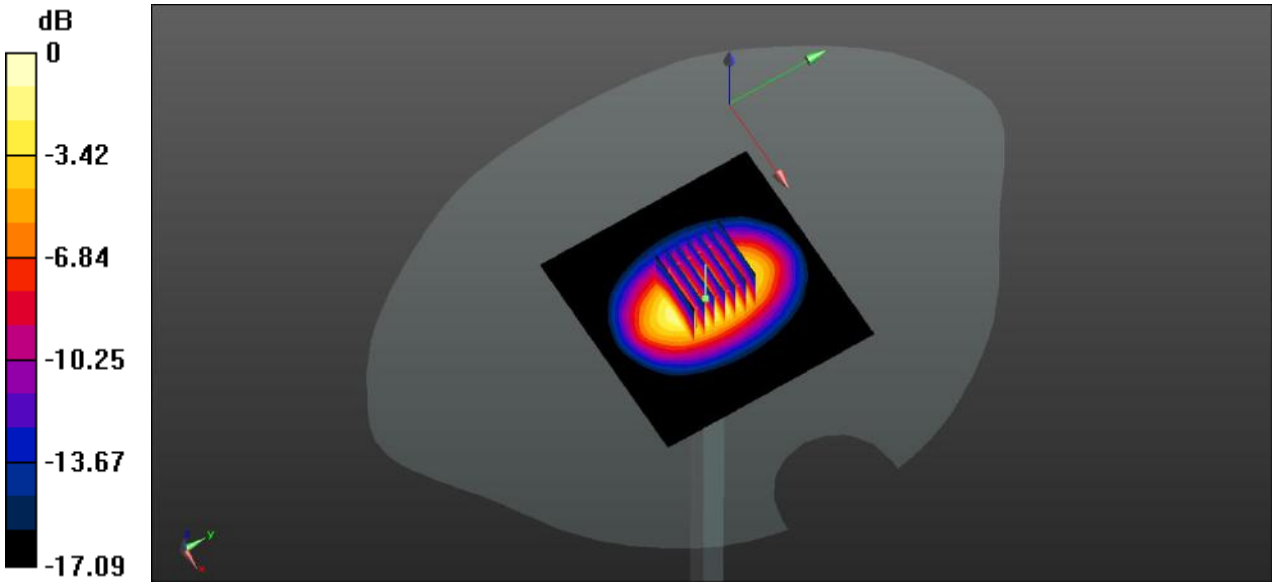
CW 1750 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.14 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 7.02 W/kg

SAR(1 g) = 3.73 W/kg; SAR(10 g) = 1.92 W/kg

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



0 dB = 4.21 W/kg

System Performance Check Data (1750MHz Head)

Date: 2021.12.10

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

Medium parameters used: f = 1750 MHz; σ = 1.377 S/m; ε_r = 40.134; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.1 Liquid Temperature:21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(8.54, 8.54, 8.54); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 4.03 W/kg

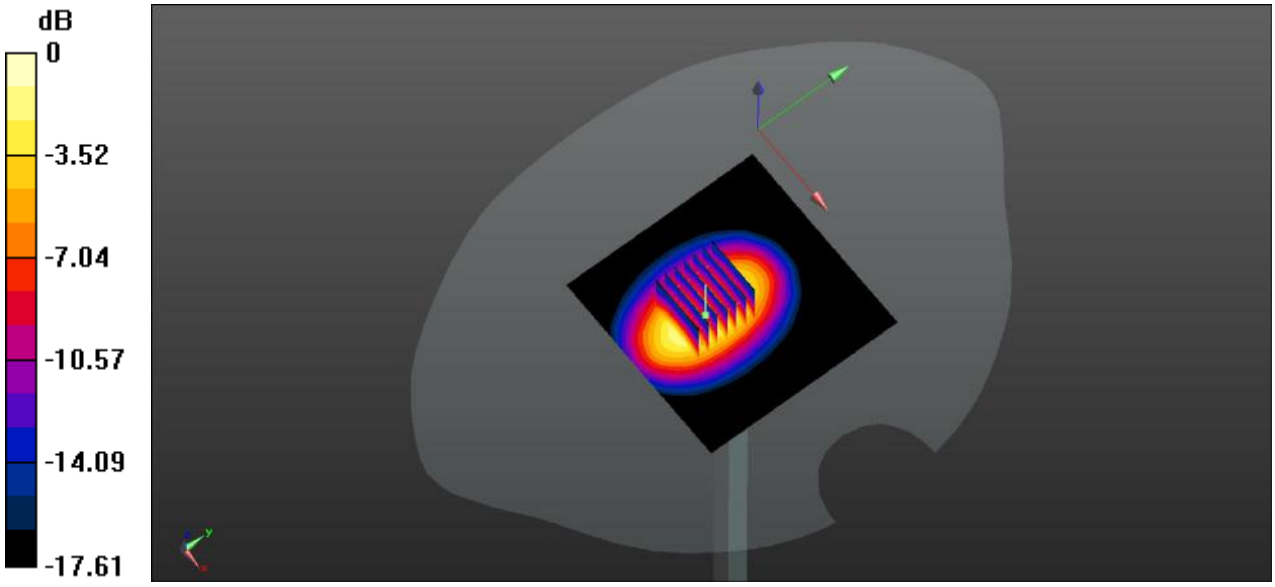
CW 1750 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.41 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 6.75 W/kg

SAR(1 g) = 3.61 W/kg; SAR(10 g) = 1.88 W/kg

Maximum value of SAR (measured) = 3.98 W/kg



0 dB = 3.98 W/kg

System Performance Check Data (1750MHz Head)

Date: 2021.12.12

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

Medium parameters used: f = 1750 MHz; σ = 1.383 S/m; ε_r = 39.987; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(8.54, 8.54, 8.54); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 4.19 W/kg

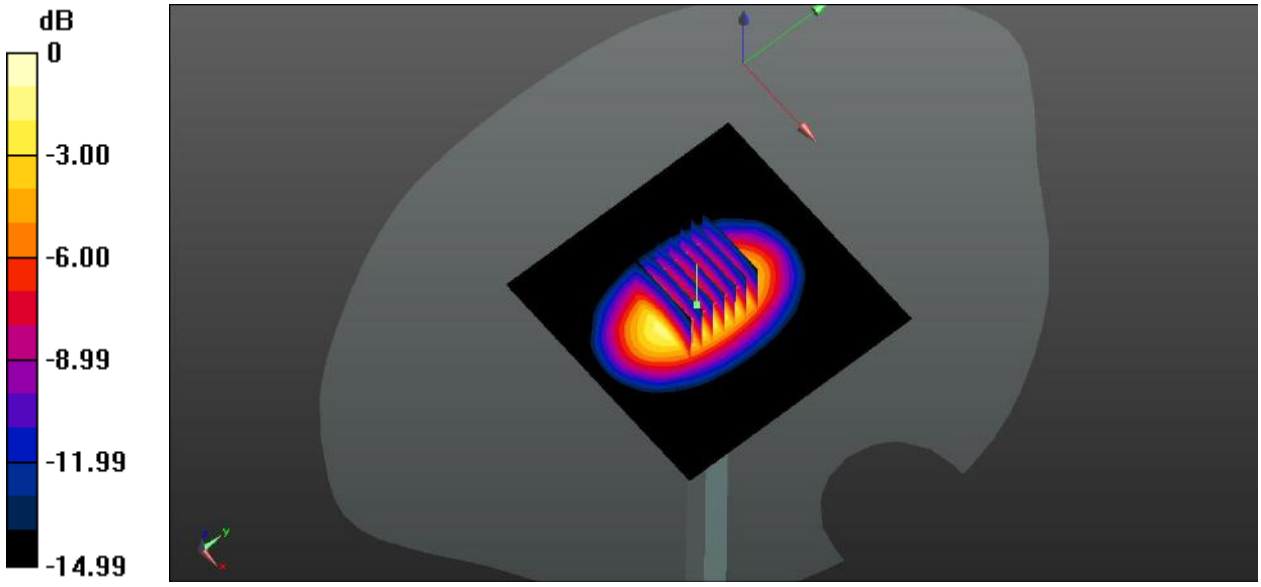
CW 1750 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.22 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 6.48 W/kg

SAR(1 g) = 3.77 W/kg; SAR(10 g) = 1.98 W/kg

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



0 dB = 4.14 W/kg

System Performance Check Data (1900MHz Head)

Date: 2021.12.06

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

Medium parameters used: f = 1900 MHz; σ = 1.393 S/m; ε_r = 39.96; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(8.31, 8.31, 8.31); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 4.65 W/kg

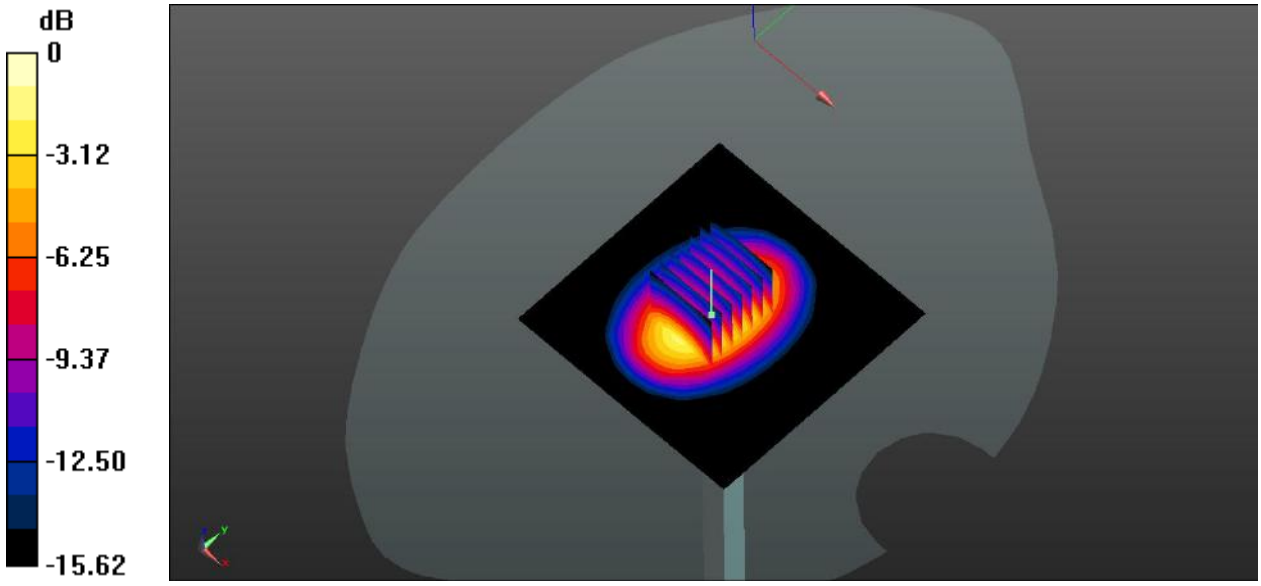
CW 1900 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.52 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 7.36 W/kg

SAR(1 g) = 4.08 W/kg; SAR(10 g) = 2.09 W/kg

Maximum value of SAR (measured) = 4.62 W/kg



0 dB = 4.62 W/kg

System Performance Check Data (1900MHz Head)

Date: 2021.12.09

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

Medium parameters used: f = 1900 MHz; σ = 1.392 S/m; ε_r = 39.997; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(8.31, 8.31, 8.31); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW1900 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.41 W/kg

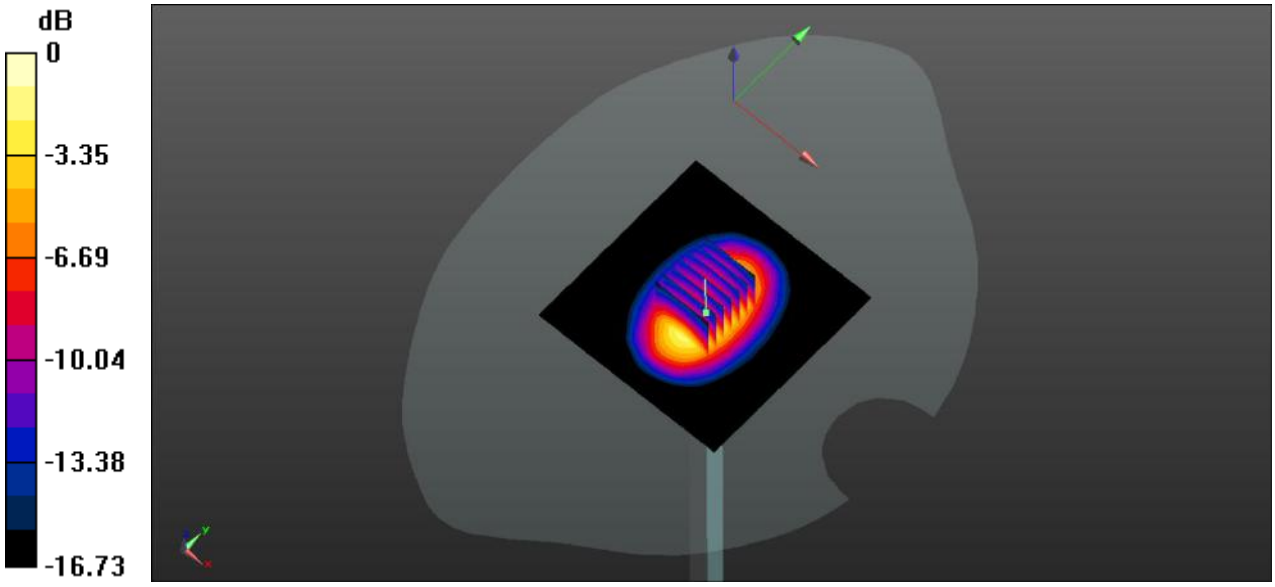
CW1900 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.98 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 7.09 W/kg

SAR(1 g) = 3.97 W/kg; SAR(10 g) = 2.03 W/kg

Maximum value of SAR (measured) = 4.43 W/kg



0 dB = 4.43 W/kg

System Performance Check Data (2450MHz Head)

Date: 2021.12.15

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

Medium parameters used: f = 2450 MHz; σ = 1.801 S/m; ε_r = 39.619; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.68, 7.68, 7.68); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 6.25 W/kg

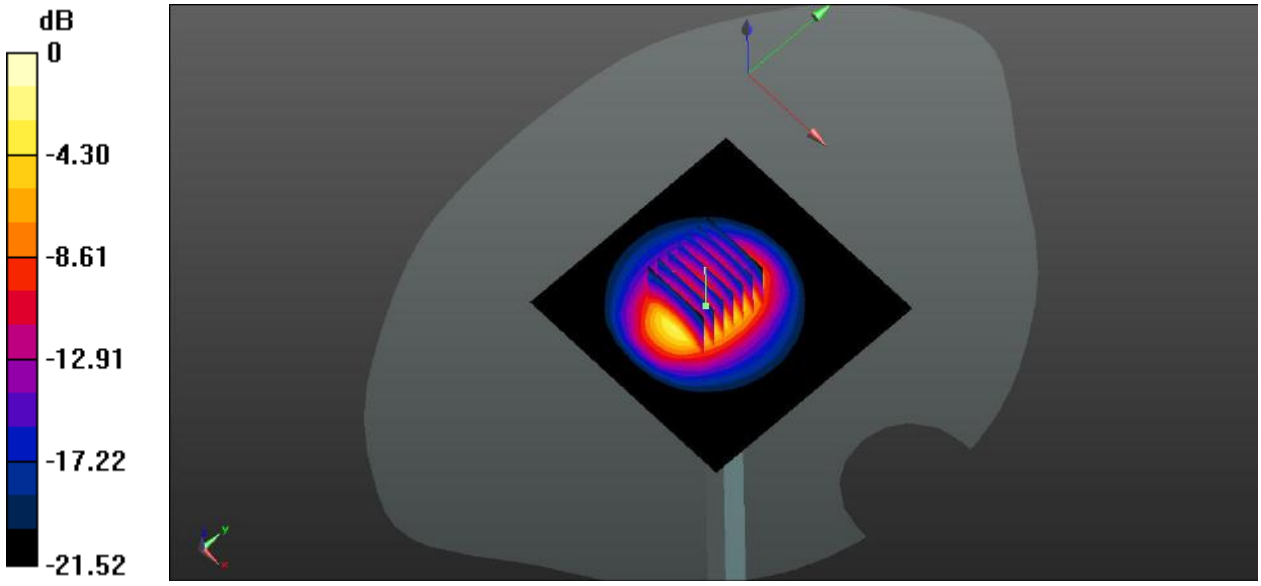
CW 2450 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.73 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 10.8 W/kg

SAR(1 g) = 5.25 W/kg; SAR(10 g) = 2.39 W/kg

Maximum value of SAR (measured) = 6.08 W/kg



0 dB = 6.08 W/kg

System Performance Check Data (2600MHz Head)

Date: 2021.12.11

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

Medium parameters used (extrapolated): f = 2600 MHz; σ = 1.975 S/m; ε_r = 38.604; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.49, 7.49, 7.49); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 6.46 W/kg

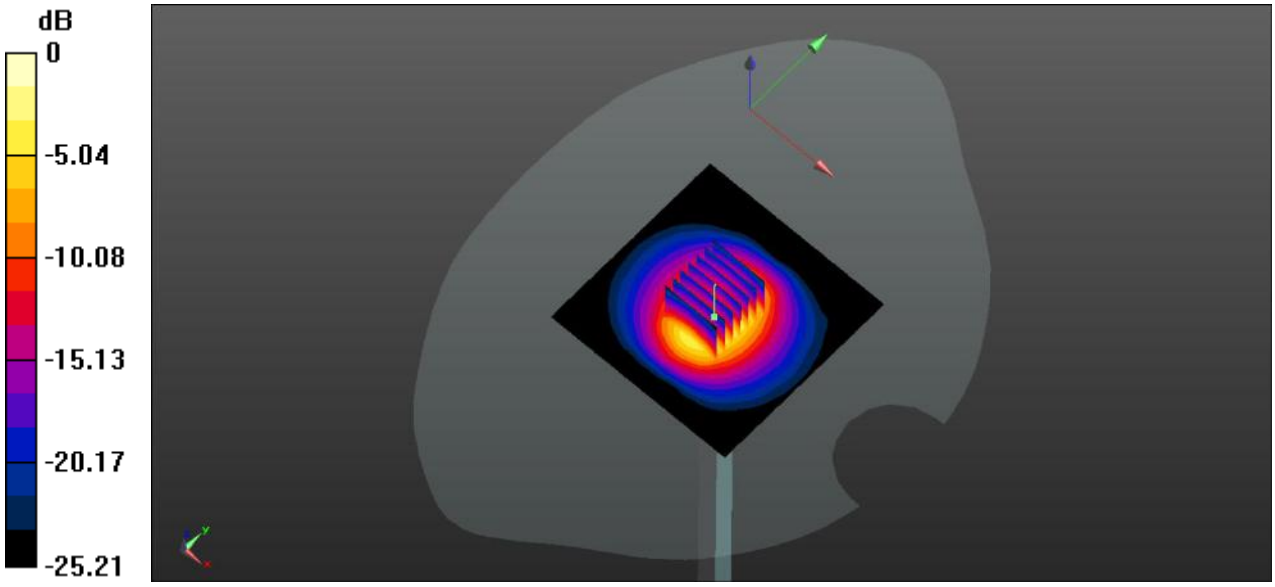
CW 2600 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.55 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 12.7 W/kg

SAR(1 g) = 5.61 W/kg; SAR(10 g) = 2.47 W/kg

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



0 dB = 6.44 W/kg

System Performance Check Data (2600MHz Head)

Date: 2021.12.13

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

Medium parameters used: f = 2600 MHz; σ = 1.976 S/m; ε_r = 38.387; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.49, 7.49, 7.49); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 6.45 W/kg

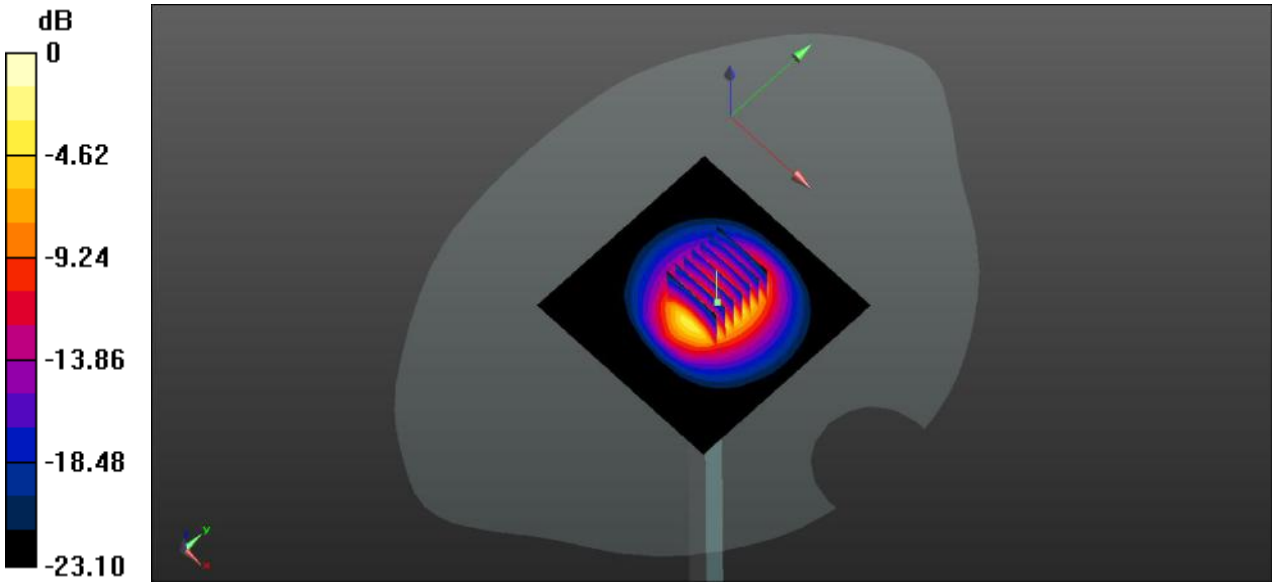
CW 2600 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.43 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 11.3 W/kg

SAR(1 g) = 5.49 W/kg; SAR(10 g) = 2.43 W/kg

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



0 dB = 6.35 W/kg

System Performance Check Data (2600MHz Head)

Date: 2021.12.14

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

Medium parameters used: f = 2600 MHz; σ = 1.979 S/m; ε_r = 38.429; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.49, 7.49, 7.49); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW2600 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.29 W/kg

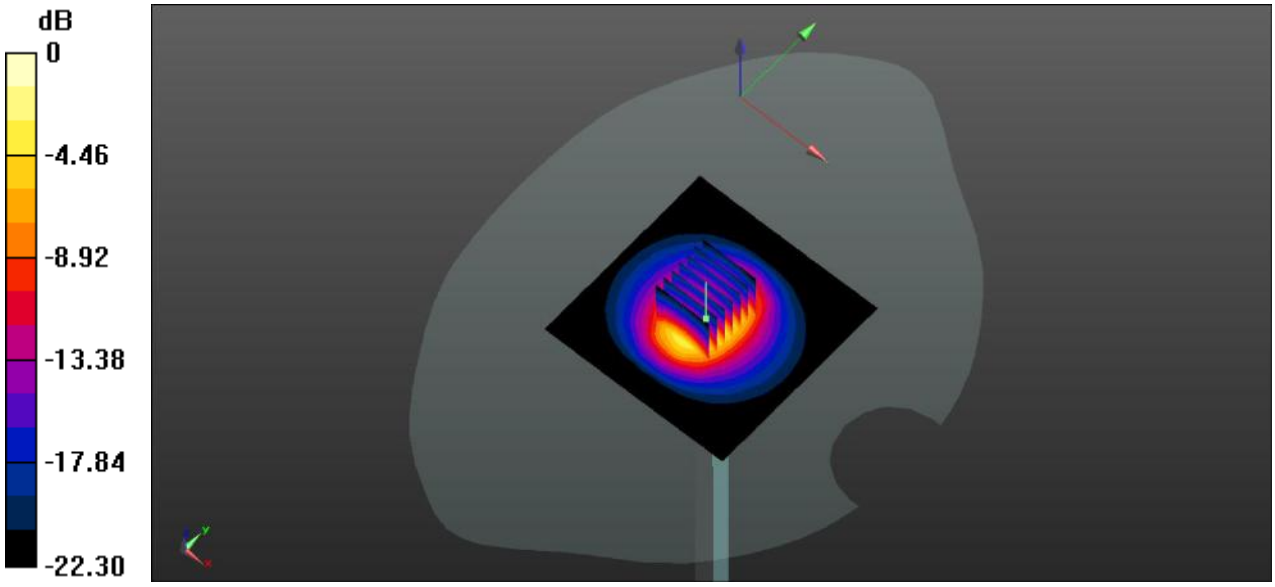
CW2600 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.23 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 12.7 W/kg

SAR(1 g) = 5.56 W/kg; SAR(10 g) = 2.45 W/kg

Maximum value of SAR (measured) = 6.31 W/kg



0 dB = 6.31 W/kg

System Performance Check Data (5250MHz Head)

Date: 2021.12.16

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

Medium parameters used: f = 5250 MHz; σ = 4.702 S/m; ε_r = 35.793; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(5.46, 5.46, 5.46); Calibrated: 2021.08.12;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 8.11 W/kg

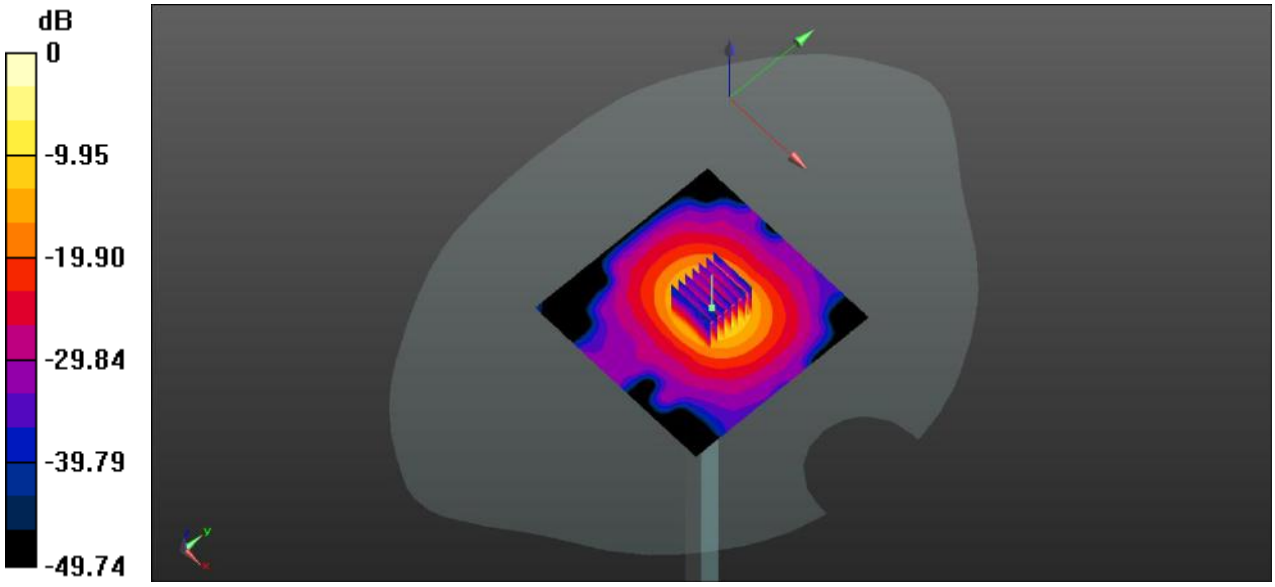
CW 5250 100mW/Zoom Scan (7x7x21)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 36.55 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 31.8 W/kg

SAR(1 g) = 7.54 W/kg; SAR(10 g) = 2.15 W/kg

Maximum value of SAR (measured) = 19.2 W/kg



0 dB = 19.2 W/kg

System Performance Check Data (5600MHz Head)

Date: 2021.12.17

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

Medium parameters used: f = 5600 MHz; σ = 5.09 S/m; ε_r = 35.53; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(4.88, 4.88, 4.88); Calibrated: 2021.08.12;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 9.13 W/kg

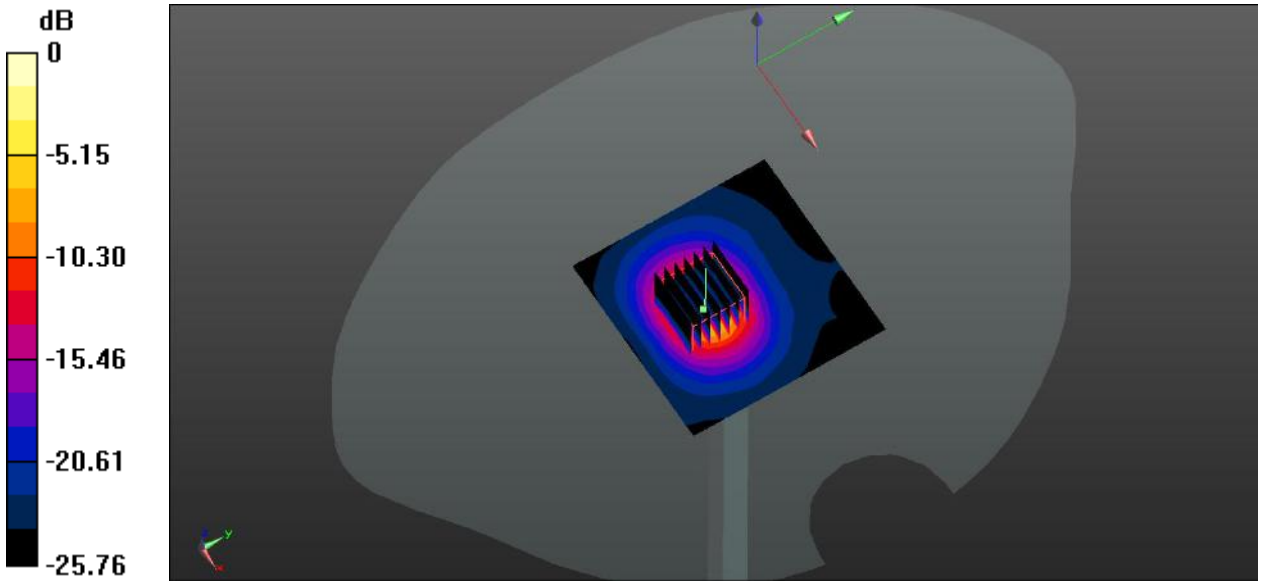
CW 5600 100mW /Zoom Scan (7x7x15)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 22.84 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 38.21 W/kg

SAR(1 g) = 8.41 W/kg; SAR(10 g) = 2.36 W/kg

Maximum value of SAR (measured) = 16.9 W/kg



0 dB = 16.9 W/kg

System Performance Check Data (5750MHz Head)

Date: 2021.12.20

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

Medium parameters used: f = 5750 MHz; σ = 5.177 S/m; ε_r = 35.489; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(4.92, 4.92, 4.92); Calibrated: 2021.08.12;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW5750 100mW/Area Scan (81x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

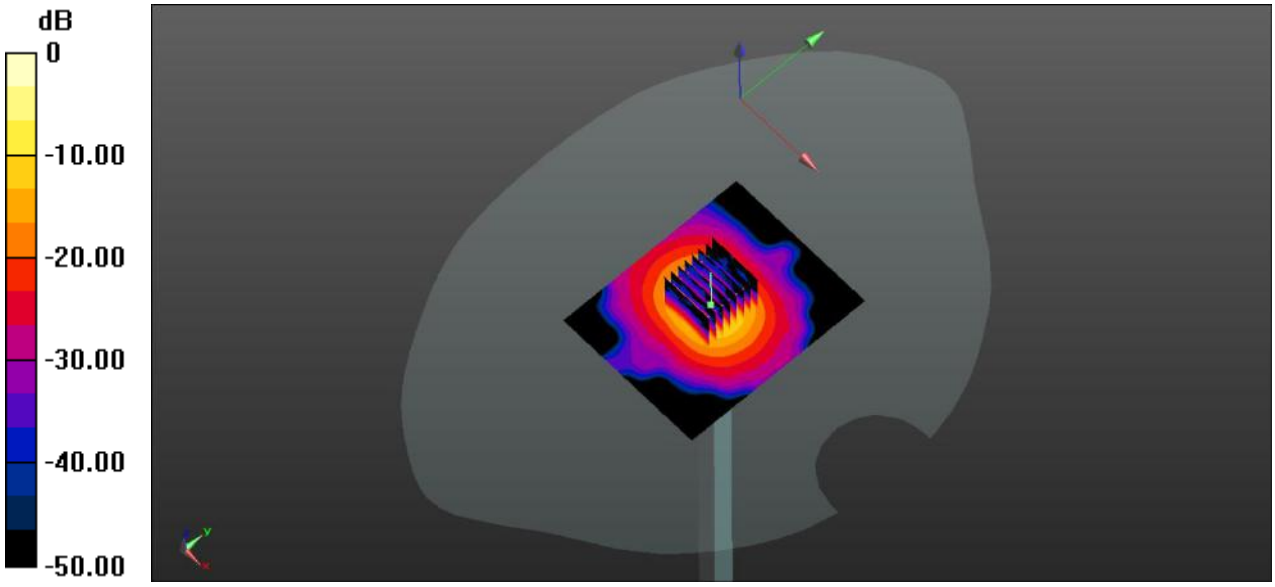
CW5750 100mW/Zoom Scan (8x8x21)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 36.33 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 35.42 W/kg

SAR(1 g) = 7.76 W/kg; SAR(10 g) = 2.18 W/kg

Maximum value of SAR (measured) = 19.5 W/kg



0 dB = 19.5 W/kg

ANNEX C TEST DATA

Meas.1 Right Head with Cheek on Middle Channel in GPRS850 2Slots mode with Antenna 4

Date: 2021.12.05

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

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.898 S/m; ε_r = 41.835; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(10.3, 10.3, 10.3); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 0.671 W/kg

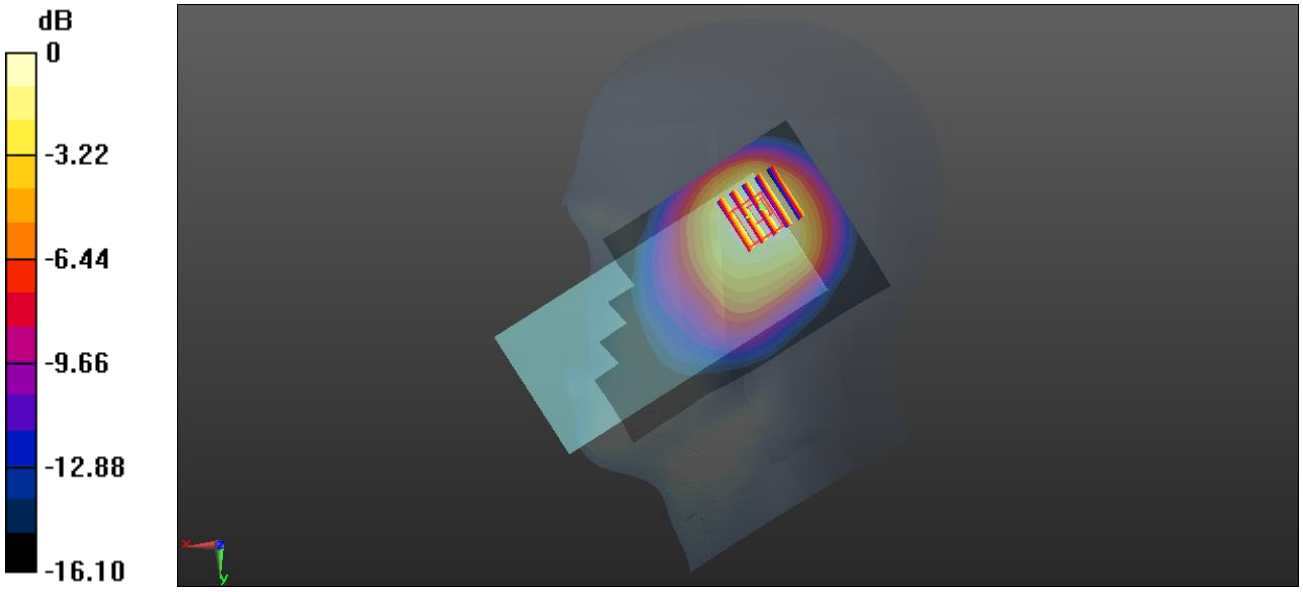
Ch190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.84 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.906 W/kg

SAR(1 g) = 0.576 W/kg; SAR(10 g) = 0.382 W/kg

Maximum value of SAR (measured) = 0.611 W/kg



0 dB = 0.611 W/kg

Meas.2 Body Plane with Back Side 10mm on Middle Channel in GPRS850 2Slots mode with Antenna 0

Date: 2021.12.05

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

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.898 S/m; ε_r = 41.835; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(10.3, 10.3, 10.3); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 0.476 W/kg

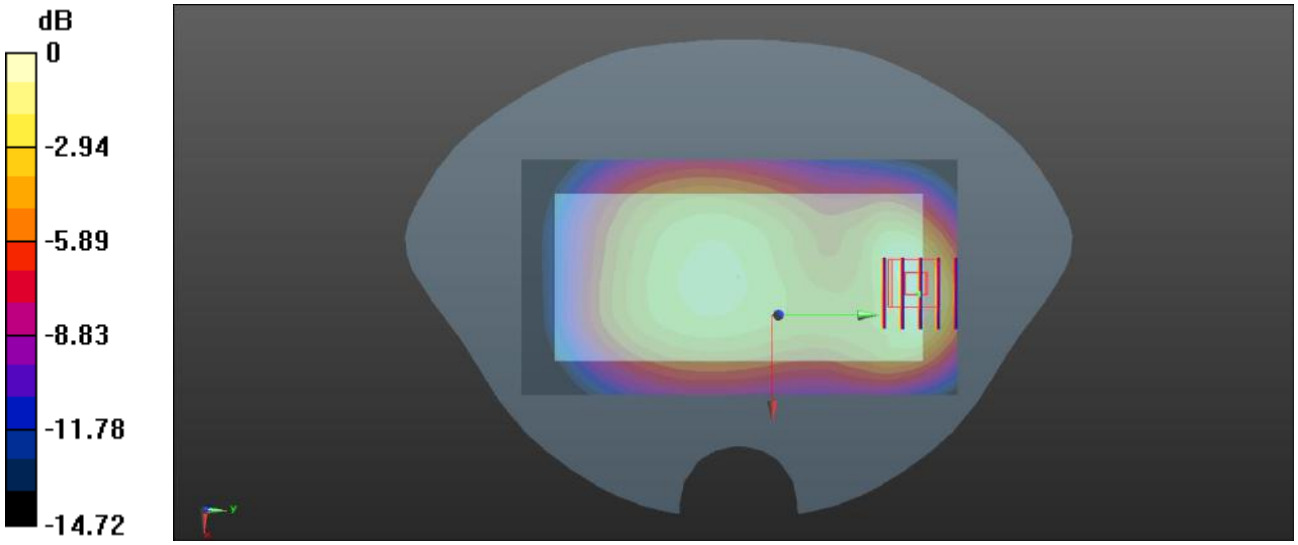
Ch190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.52 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.787 W/kg

SAR(1 g) = 0.435 W/kg; SAR(10 g) = 0.246 W/kg

Maximum value of SAR (measured) = 0.467 W/kg



0 dB = 0.467 W/kg

Meas.3 Right Head with Tilt on Middle Channel in GPRS1900 2Slots mode with Antenna 4

Date: 2021.12.06

Communication System Band: GPRS1900; Frequency: 1880 MHz;Duty Cycle: 1:4.1

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.383 S/m; ε_r = 40.215; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.7 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(8.31, 8.31, 8.31); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 0.696 W/kg

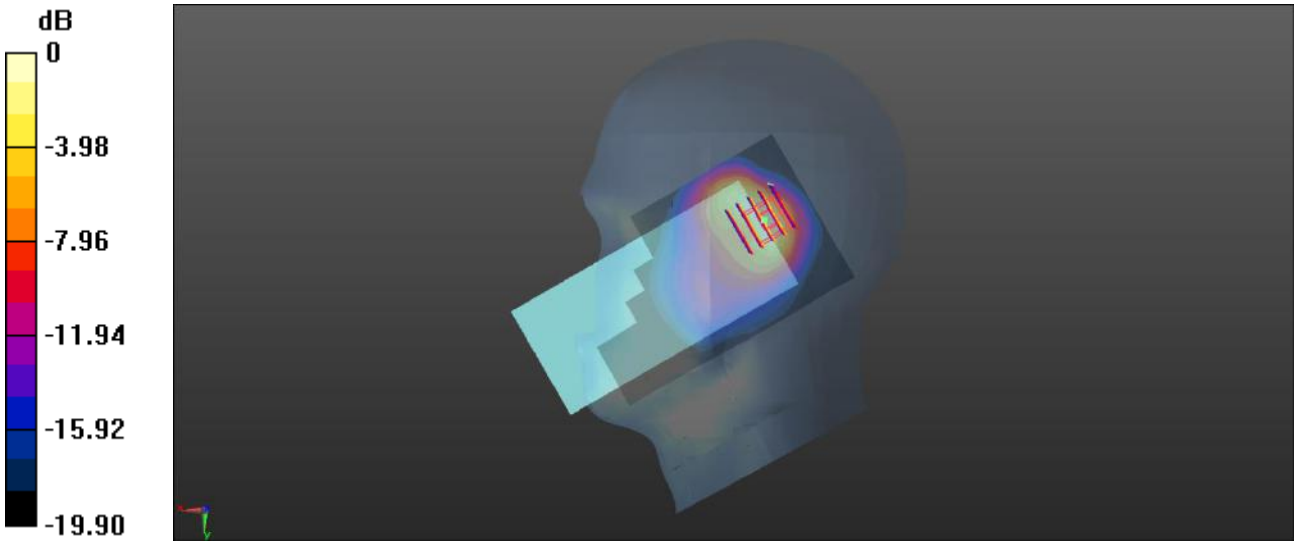
Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.24 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.581 W/kg; SAR(10 g) = 0.277 W/kg

Maximum value of SAR (measured) = 0.668 W/kg



0 dB = 0.668 W/kg

Meas.4 Body Plane with Bottom Edge 10mm on Middle Channel in GPRS1900 2Slots mode with Antenna 0

Date: 2021.12.06

Communication System Band: GPRS1900; Frequency: 1880 MHz;Duty Cycle: 1:4.1

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.383 S/m; ε_r = 40.215; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(8.31, 8.31, 8.31); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch661/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.495 W/kg

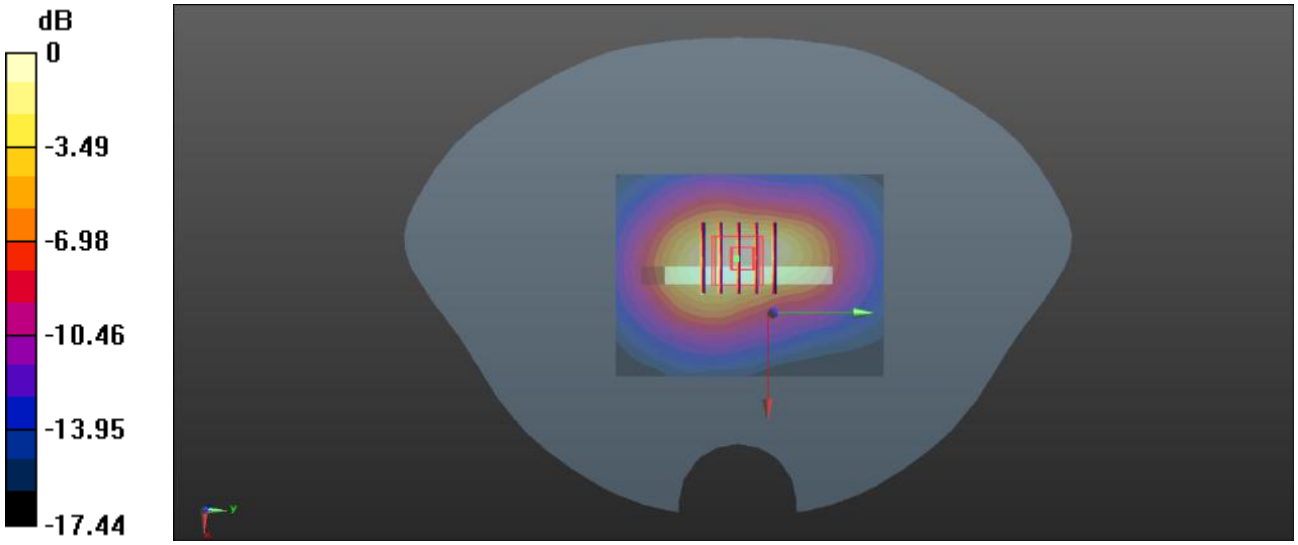
Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.28 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.747 W/kg

SAR(1 g) = 0.435 W/kg; SAR(10 g) = 0.243 W/kg

Maximum value of SAR (measured) = 0.480 W/kg



0 dB = 0.480 W/kg

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

Date: 2021.12.06

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

Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.368 S/m; ε_r = 40.585; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.7 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(8.31, 8.31, 8.31); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 0.963 W/kg

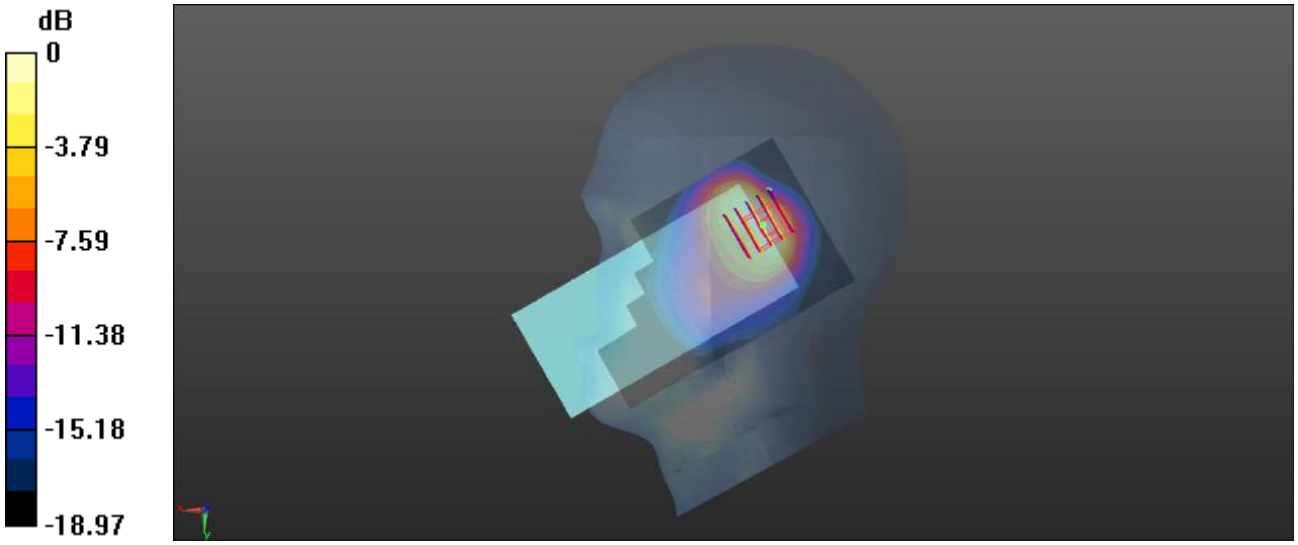
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.97 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.783 W/kg; SAR(10 g) = 0.390 W/kg

Maximum value of SAR (measured) = 0.838 W/kg



0 dB = 0.838 W/kg

Meas.6 Body Plane with Top Edge 10mm on Middle Channel in WCDMA Band2 mode with Antenna 4

Date: 2021.12.06

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

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.383 S/m; ε_r = 40.215; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(8.31, 8.31, 8.31); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9400/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.386 W/kg

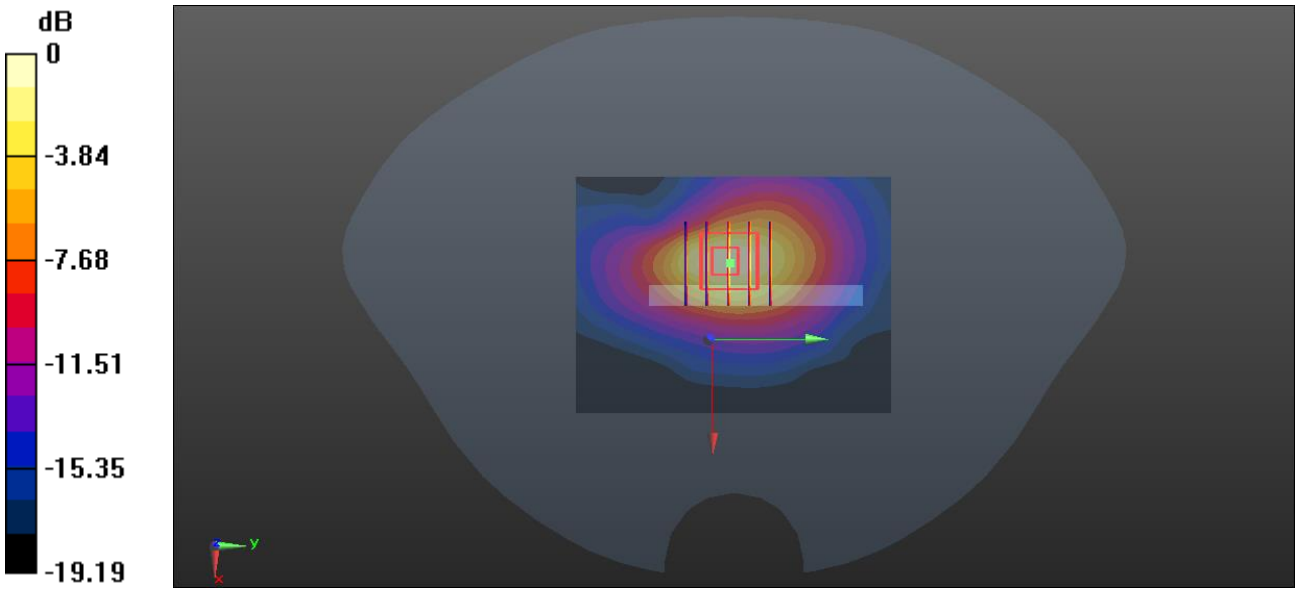
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.23 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.604 W/kg

SAR(1 g) = 0.345 W/kg; SAR(10 g) = 0.176 W/kg

Maximum value of SAR (measured) = 0.392 W/kg



0 dB = 0.392 W/kg

Meas.7 Body Plane with Top Edge 0mm on Low Channel in WCDMA Band2 mode with Antenna 4

Date: 2021.12.06

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

Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.368 S/m; ε_r = 40.585; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(8.31, 8.31, 8.31); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9262/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.81 W/kg

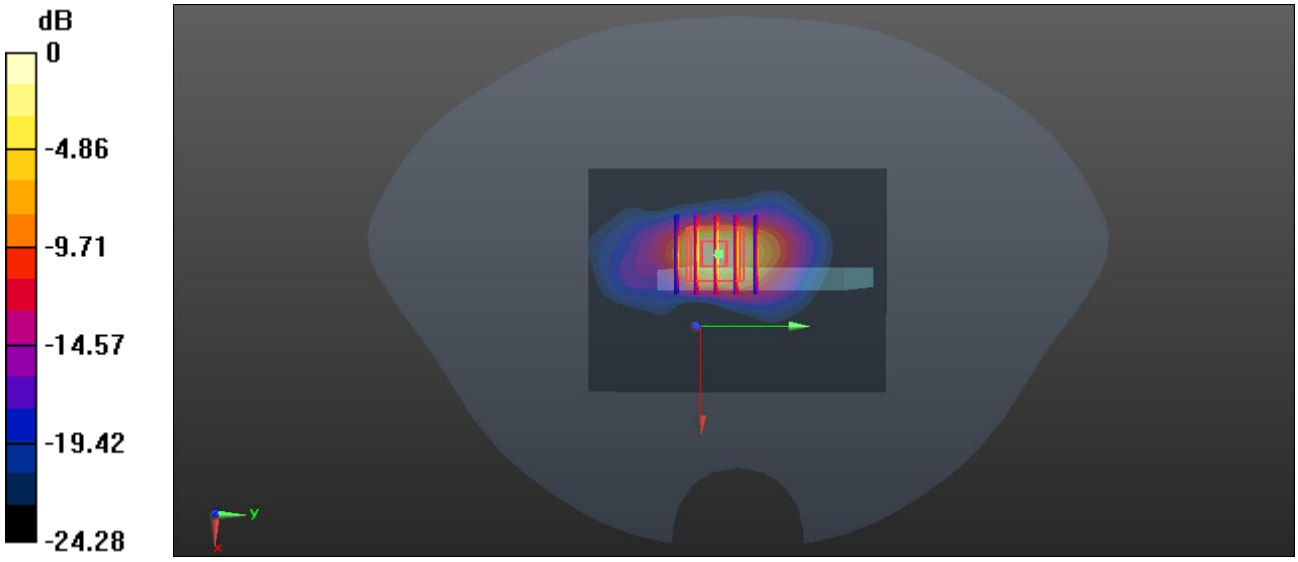
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.84 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 7.91 W/kg

SAR(1 g) = 3.49 W/kg; SAR(10 g) = 1.4 W/kg

Maximum value of SAR (measured) = 4.24 W/kg



0 dB = 4.24 W/kg

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

Date: 2021.12.07

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

Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.355 S/m; ε_r = 40.298; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(8.54, 8.54, 8.54); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.874 W/kg

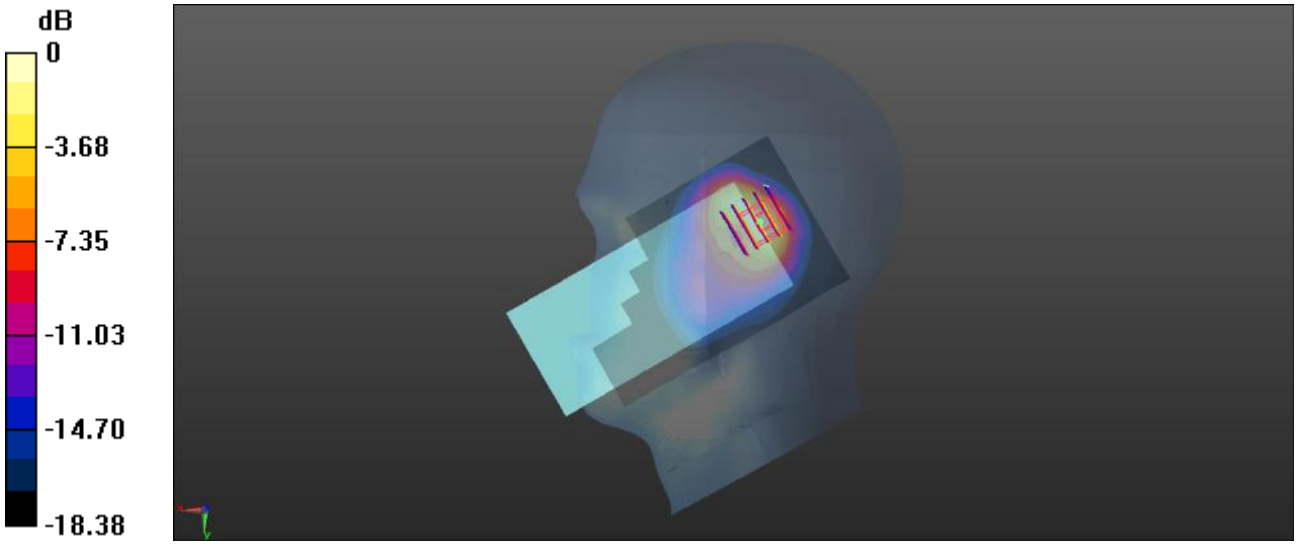
Ch1412/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.11 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.718 W/kg; SAR(10 g) = 0.341 W/kg

Maximum value of SAR (measured) = 0.825 W/kg



0 dB = 0.825 W/kg

Meas.9 Body Plane with Bottom Edge 10mm on High Channel in WCDMA Band4 mode with Antenna 0

Date: 2021.12.07

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

Medium parameters used (interpolated): f = 1752.6 MHz; σ = 1.379 S/m; ε_r = 39.979; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(8.54, 8.54, 8.54); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1513/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.923 W/kg

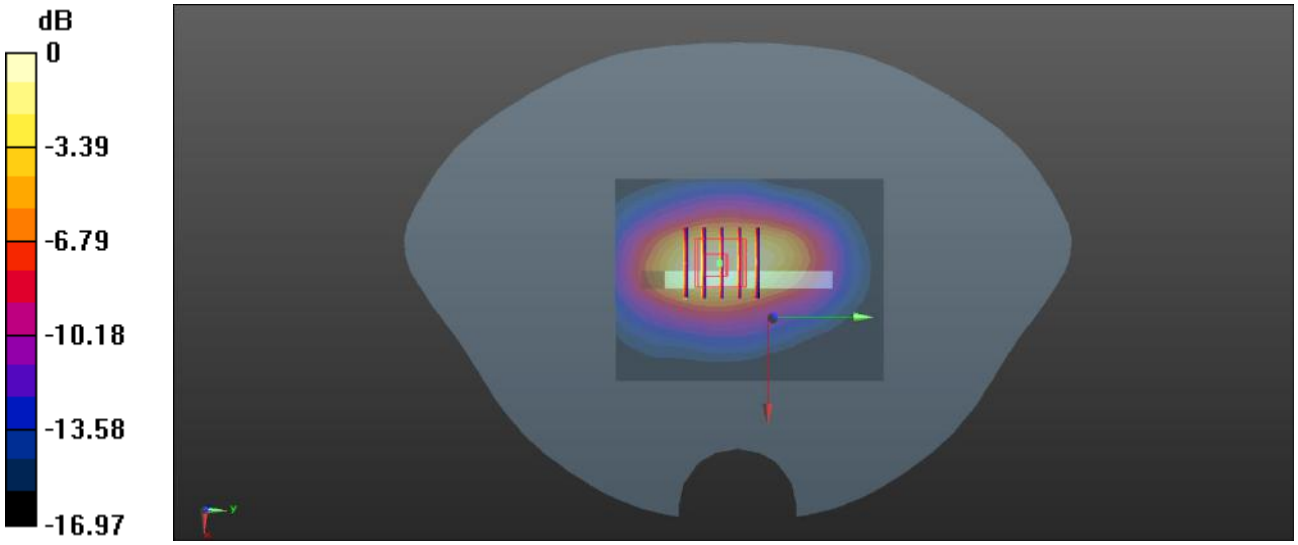
Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.93 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.794 W/kg; SAR(10 g) = 0.442 W/kg

Maximum value of SAR (measured) = 0.879 W/kg



0 dB = 0.879 W/kg

Meas.10 Body Plane with Top Edge 0mm on High Channel in WCDMA Band4 mode with Antenna 4

Date: 2021.12.07

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

Medium parameters used (interpolated): f = 1752.6 MHz; σ = 1.379 S/m; ε_r = 39.979; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(8.54, 8.54, 8.54); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1513/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 6.10 W/kg

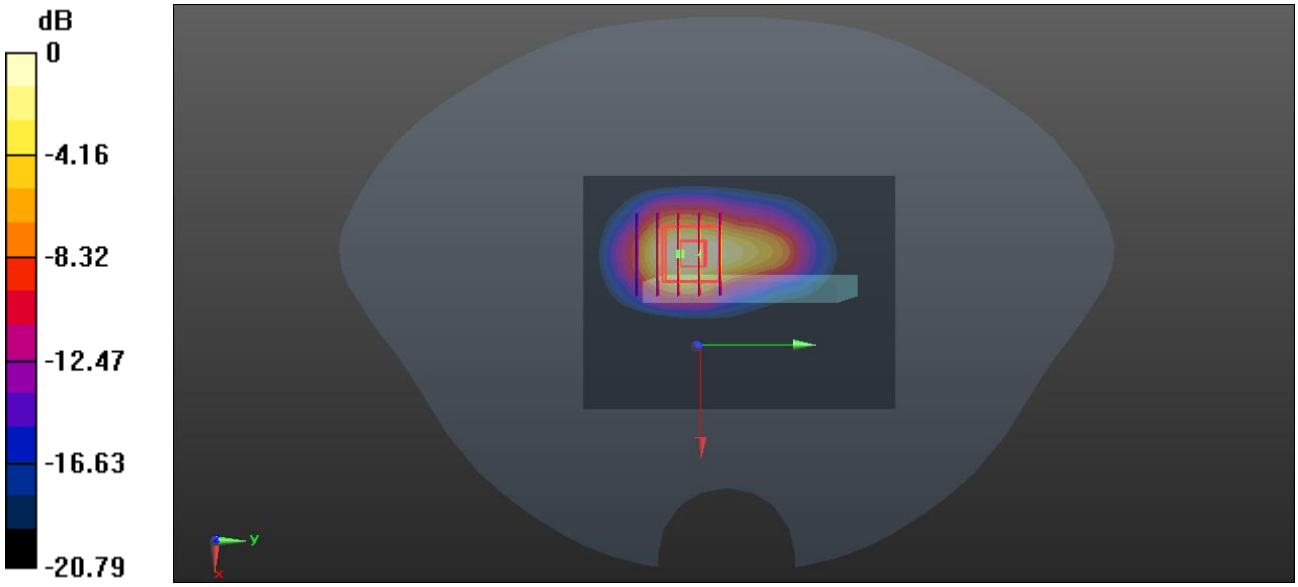
Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.03 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 10.1 W/kg

SAR(1 g) = 4.68 W/kg; SAR(10 g) = 2.11 W/kg

Maximum value of SAR (measured) = 5.43 W/kg



0 dB = 5.43 W/kg

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

Date: 2021.12.08

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

Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.903 S/m; ε_r = 41.884; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.6 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(10.3, 10.3, 10.3); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 0.585 W/kg

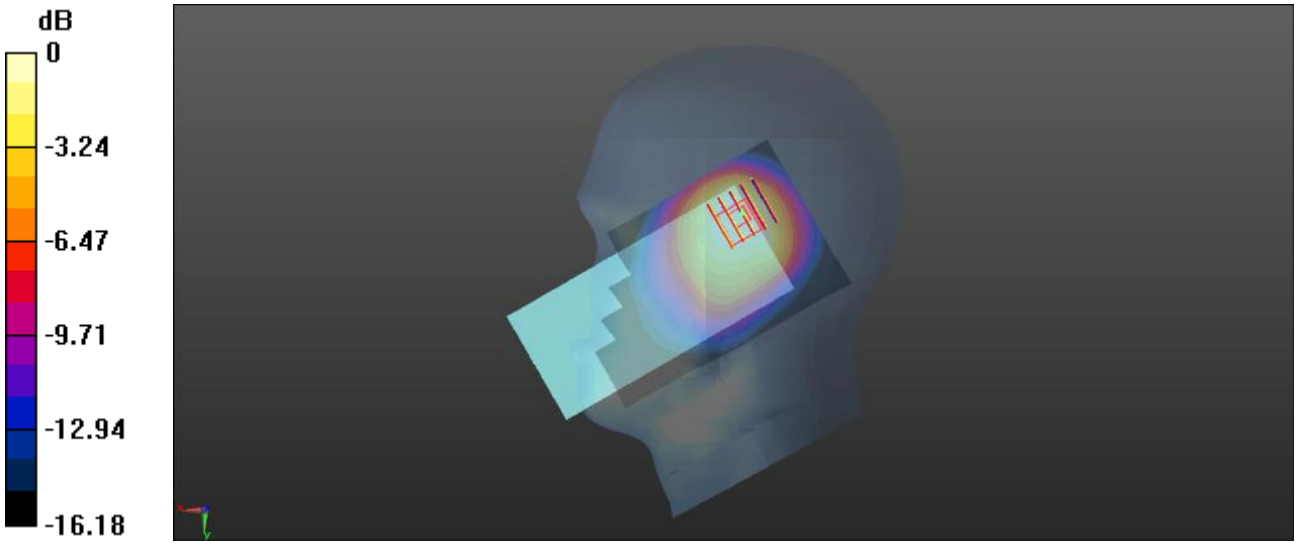
Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.33 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.794 W/kg

SAR(1 g) = 0.496 W/kg; SAR(10 g) = 0.329 W/kg

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



0 dB = 0.526 W/kg

Meas.12 Body Plane with Back Side 10mm on Middle Channel in WCDMA Band5 mode with Antenna 0

Date: 2021.12.08

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

Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.903 S/m; ε_r = 41.884; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(10.3, 10.3, 10.3); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 0.436 W/kg

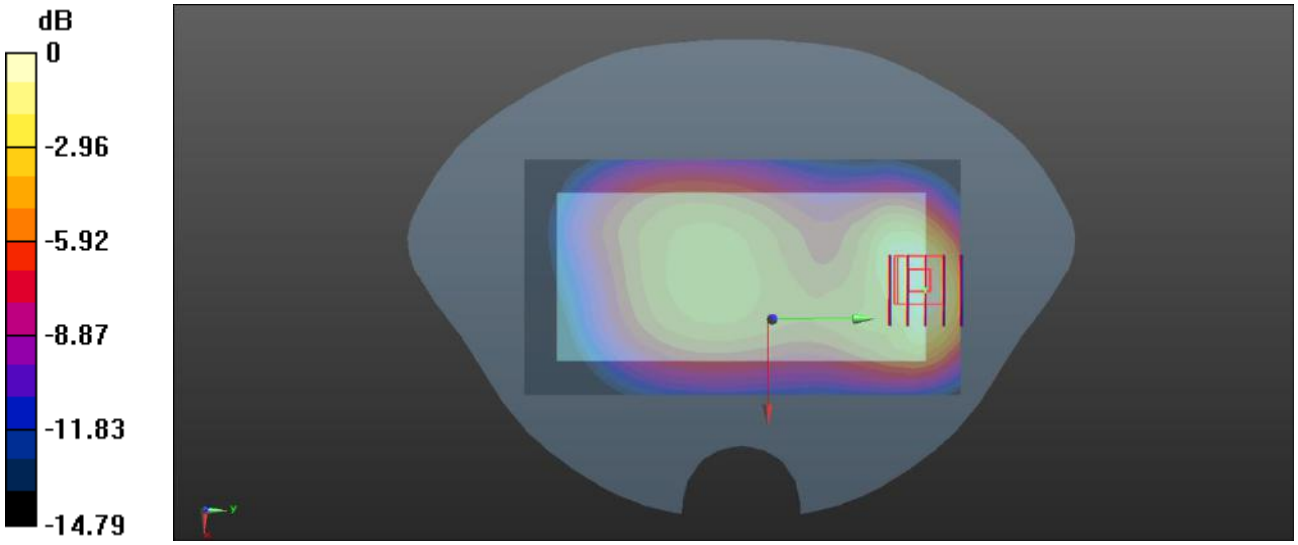
Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.51 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.721 W/kg

SAR(1 g) = 0.401 W/kg; SAR(10 g) = 0.228 W/kg

Maximum value of SAR (measured) = 0.435 W/kg



0 dB = 0.435 W/kg

Meas.13 Right Head with Cheek on Low Channel in LTE Band2 with Antenna 4 and 50RB

Date: 2021.12.09

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

Medium parameters used (interpolated): f = 1860 MHz; σ = 1.372 S/m; ε_r = 40.49; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(8.31, 8.31, 8.31); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 0.661 W/kg

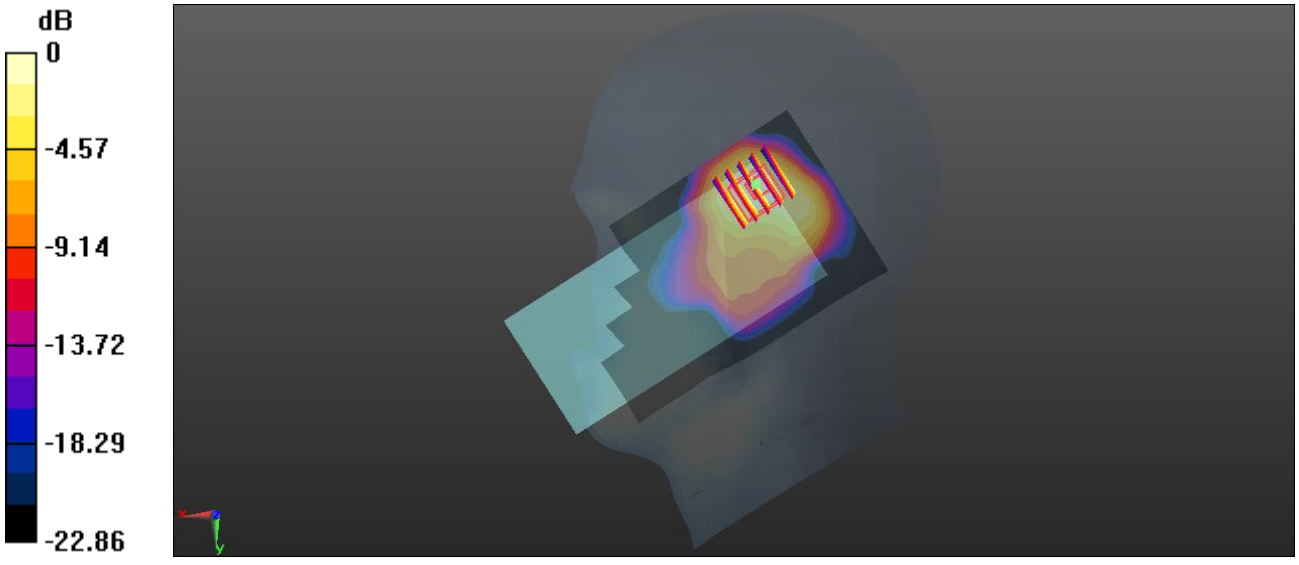
Ch18700/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.13 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.603 W/kg; SAR(10 g) = 0.316 W/kg

Maximum value of SAR (measured) = 0.673 W/kg



0 dB = 0.673 W/kg

Meas.14 Body Plane with Right Edge 10mm on Low Channel in LTE Band2 mode with Antenna 4 and 1RB

Date: 2021.12.09

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

Medium parameters used (interpolated): f = 1860 MHz; σ = 1.372 S/m; ε_r = 40.49; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(8.31, 8.31, 8.31); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch18700/Area Scan (61x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.516 W/kg

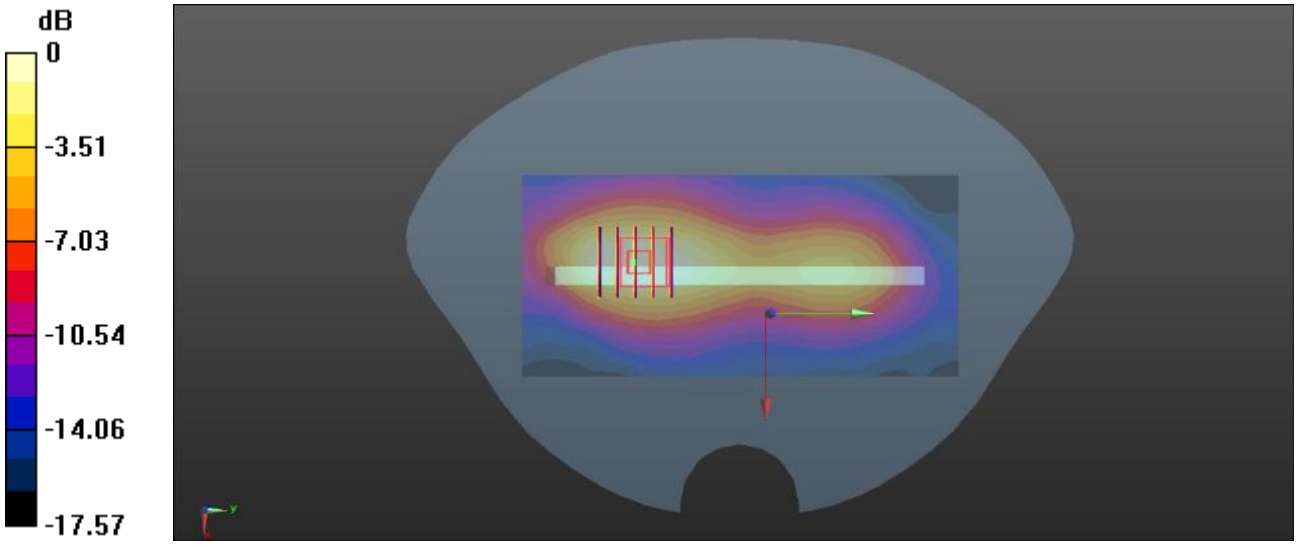
Ch18700/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.10 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.736 W/kg

SAR(1 g) = 0.451 W/kg; SAR(10 g) = 0.267 W/kg

Maximum value of SAR (measured) = 0.493 W/kg



0 dB = 0.493 W/kg

Meas.15 Body Plane with Top Edge 0mm on Low Channel in LTE Band2 mode with Antenna 4 and 50RB

Date: 2021.12.09

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

Medium parameters used (interpolated): f = 1860 MHz; σ = 1.372 S/m; ε_r = 40.49; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(8.31, 8.31, 8.31); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch18700/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.91 W/kg

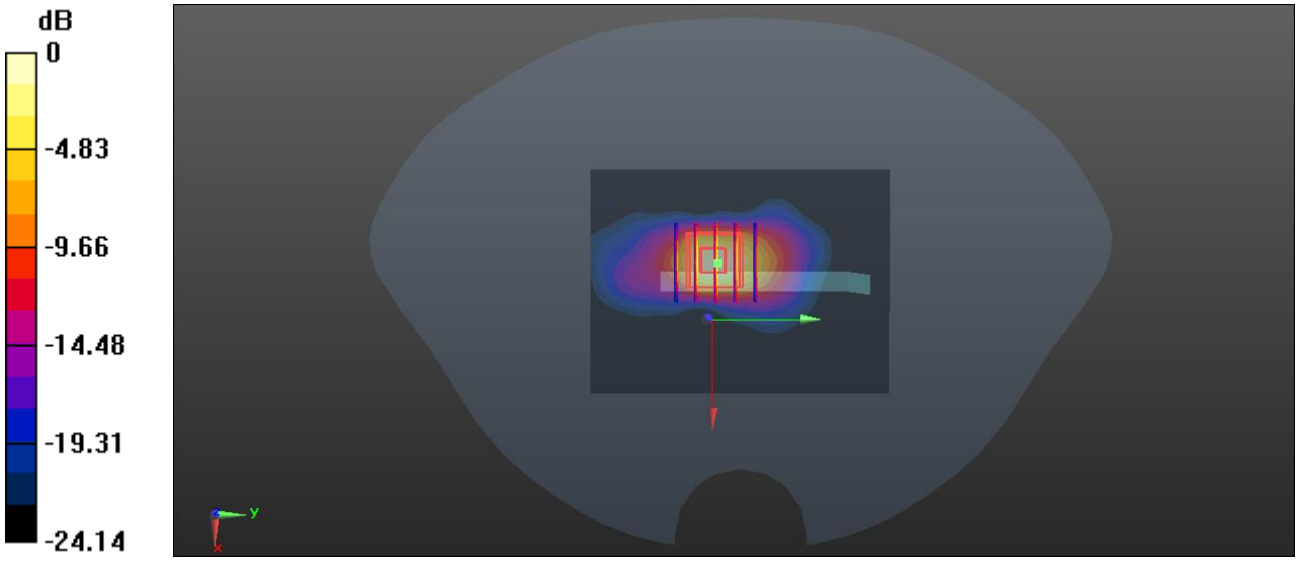
Ch18700/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.23 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 7.52 W/kg

SAR(1 g) = 3.34 W/kg; SAR(10 g) = 1.34 W/kg

Maximum value of SAR (measured) = 4.03 W/kg



0 dB = 4.03 W/kg

Meas.16 Right Head with Tilt on Low Channel in LTE Band4 mode with Antenna 4 and 50RB

Date: 2021.12.10

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

Medium parameters used (interpolated): f = 1720 MHz; σ = 1.353 S/m; ε_r = 40.558; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.1 Liquid Temperature:21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(8.54, 8.54, 8.54); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

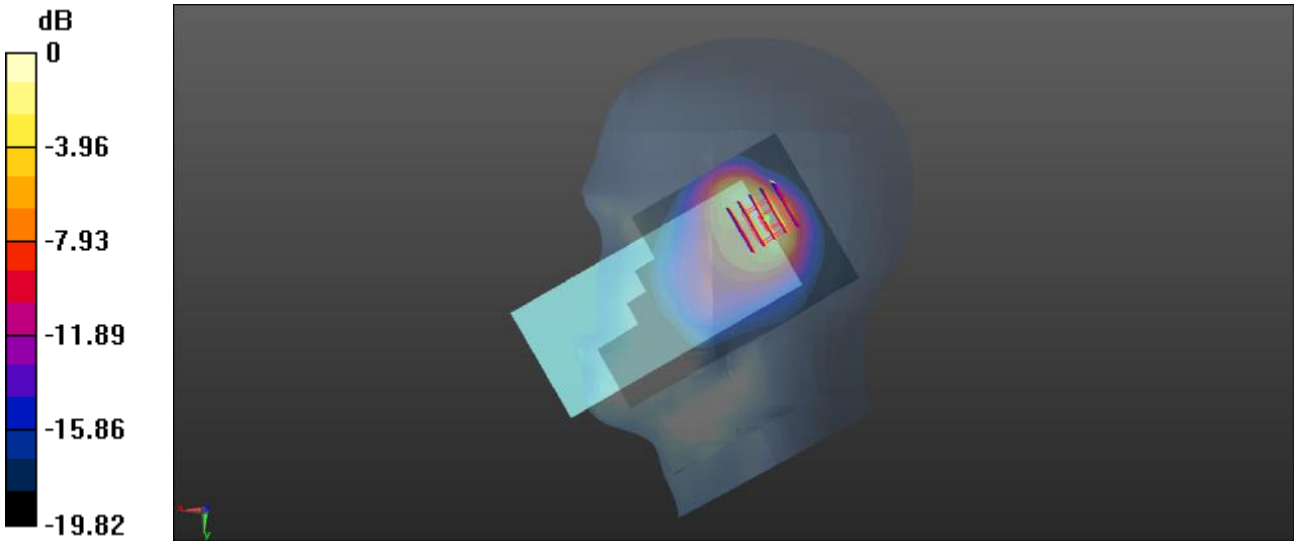
Ch20050/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.51 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 0.881 W/kg; SAR(10 g) = 0.418 W/kg

Maximum value of SAR (measured) = 1.05 W/kg



0 dB = 1.05 W/kg

Meas.17 Body Plane with Bottom Edge 10mm on Middle Channel in LTE Band4 mode with Antenna 0 and 1RB

Date: 2021.12.10

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

Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.356 S/m; ε_r = 40.401; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.1 Liquid Temperature:21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(8.54, 8.54, 8.54); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20175/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.868 W/kg

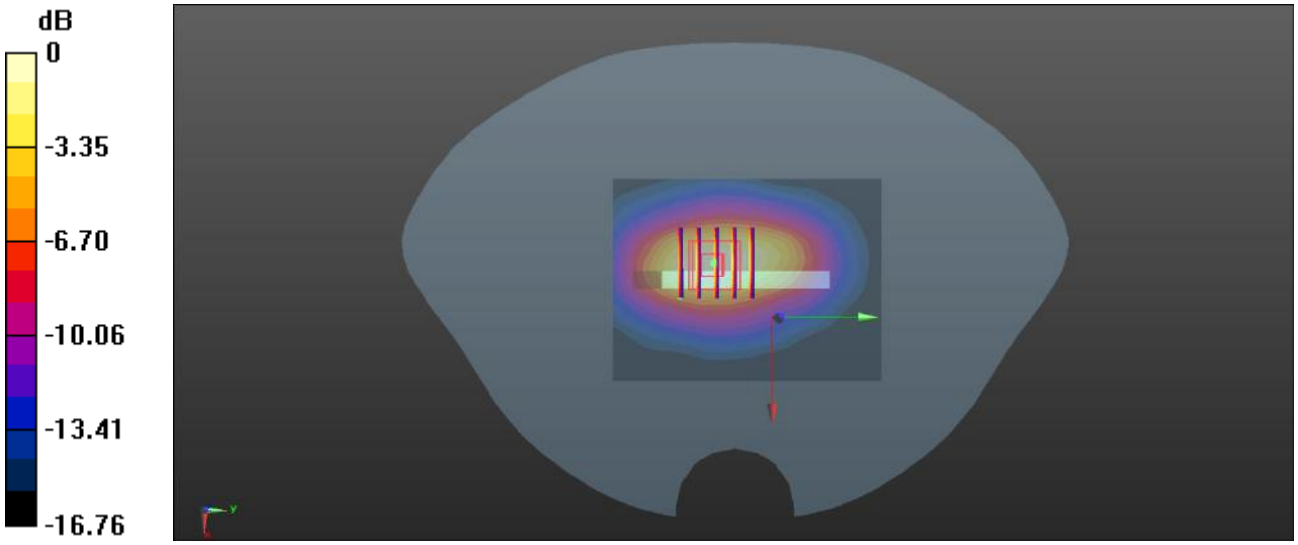
Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.28 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.744 W/kg; SAR(10 g) = 0.414 W/kg

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



0 dB = 0.826 W/kg

Meas.18 Body Plane with Bottom Edge 0mm on Middle Channel in LTE Band4 mode with Antenna 0 and 50RB

Date: 2021.12.10

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

Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.356 S/m; ε_r = 40.401; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.1 Liquid Temperature:21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(8.54, 8.54, 8.54); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20175/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 6.38 W/kg

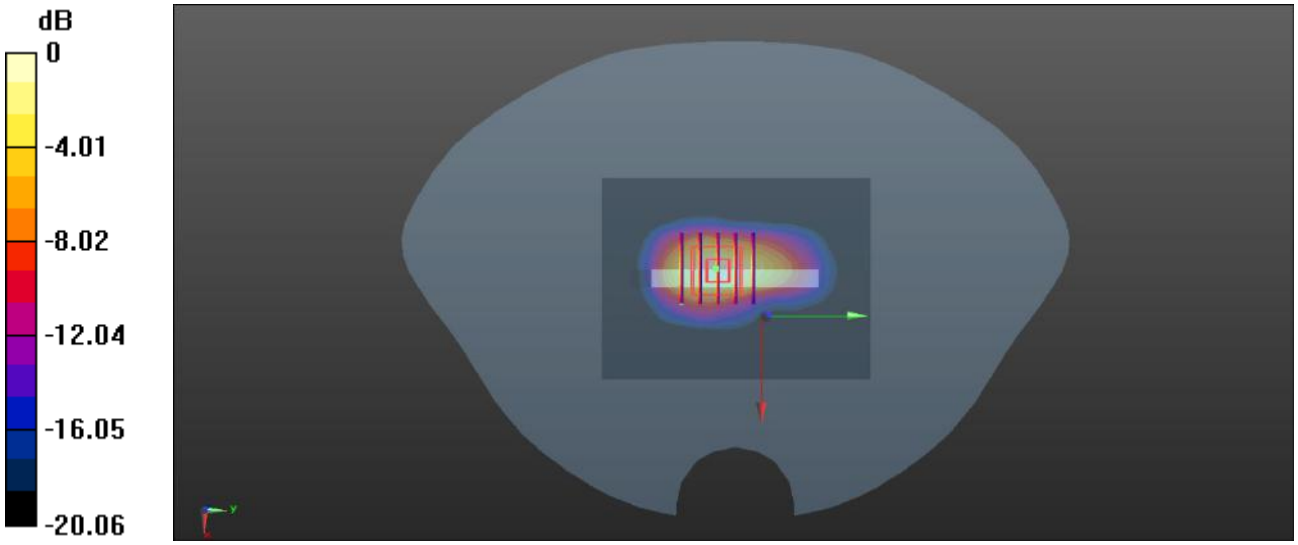
Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 57.19 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 10.8 W/kg

SAR(1 g) = 4.91 W/kg; SAR(10 g) = 2.22 W/kg

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



0 dB = 5.78 W/kg

Meas.19 Right Head with Cheek on Middle Channel in LTE Band5 mode with Antenna 4 and 25RB

Date: 2021.12.08

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

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.905 S/m; ε_r = 41.875; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.6 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(10.3, 10.3, 10.3); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 0.638 W/kg

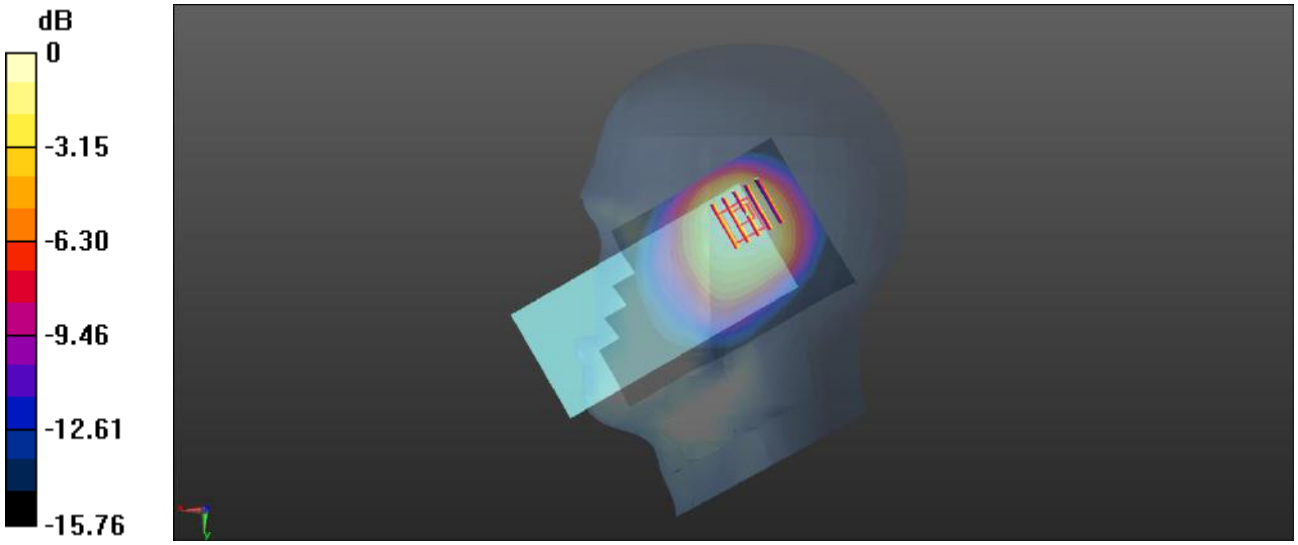
Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.36 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.882 W/kg

SAR(1 g) = 0.551 W/kg; SAR(10 g) = 0.363 W/kg

Maximum value of SAR (measured) = 0.584 W/kg



0 dB = 0.584 W/kg

Meas.20 Body Plane with Back Side 10mm on Middle Channel in LTE Band5 mode with Antenna 0 and 1RB

Date: 2021.12.08

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

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.905 S/m; ε_r = 41.875; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(10.3, 10.3, 10.3); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 0.525 W/kg

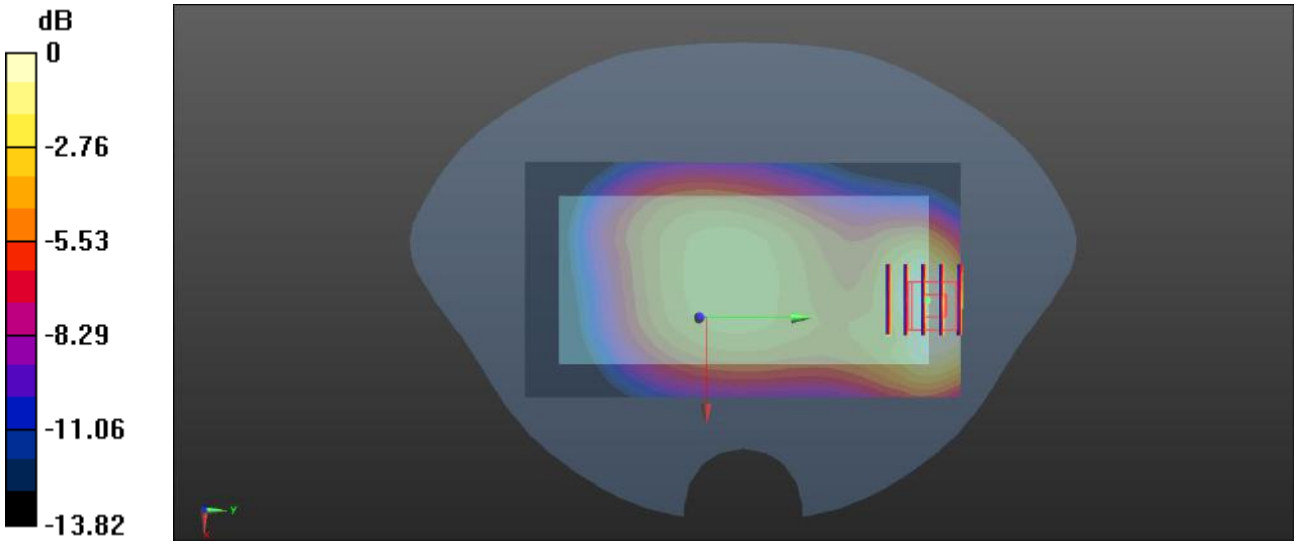
Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.84 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.692 W/kg

SAR(1 g) = 0.381 W/kg; SAR(10 g) = 0.216 W/kg

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



0 dB = 0.407 W/kg

Meas.21 Right Head with Cheek on Middle Channel in LTE Band7 mode with Antenna 4 and 50RB

Date: 2021.12.11

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

Medium parameters used (interpolated): f = 2535 MHz; σ = 1.899 S/m; ε_r = 39.105; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.5 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.68, 7.68, 7.68); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 0.777 W/kg

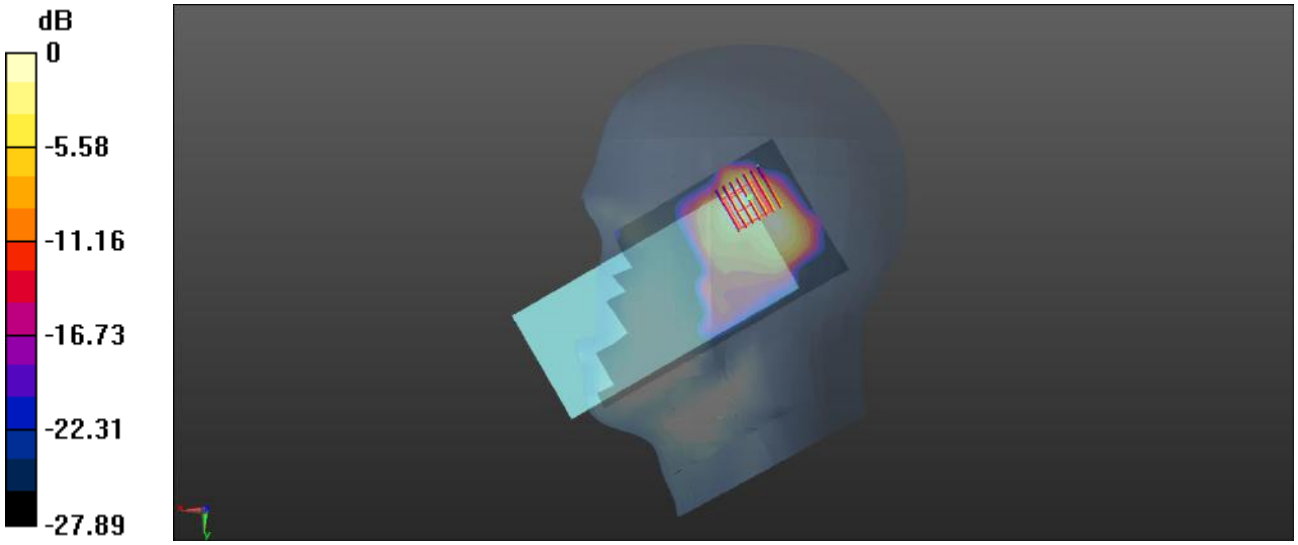
Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.41 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.613 W/kg; SAR(10 g) = 0.270 W/kg

Maximum value of SAR (measured) = 0.711 W/kg



0 dB = 0.711 W/kg

Meas.22 Body Plane with Top Edge 10mm on Middle Channel in LTE Band7 mode with Antenna 4 and 50RB

Date: 2021.12.11

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

Medium parameters used (interpolated): f = 2535 MHz; σ = 1.899 S/m; ε_r = 39.105; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.68, 7.68, 7.68); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch21100/Area Scan (71x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.506 W/kg

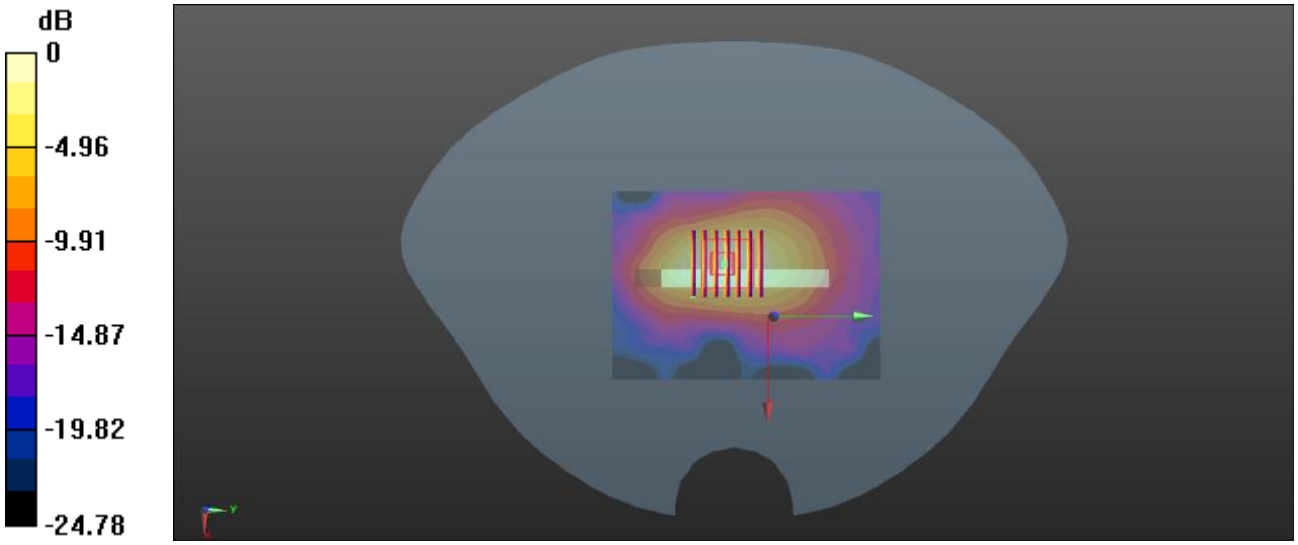
Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.94 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.857 W/kg

SAR(1 g) = 0.430 W/kg; SAR(10 g) = 0.204 W/kg

Maximum value of SAR (measured) = 0.491 W/kg



0 dB = 0.491 W/kg

Meas.23 Body Plane with Top Edge 0mm on Middle Channel in LTE Band7 mode with Antenna 4 and 50RB

Date: 2021.12.11

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

Medium parameters used (interpolated): f = 2535 MHz; σ = 1.899 S/m; ε_r = 39.105; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.68, 7.68, 7.68); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch21100/Area Scan (71x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

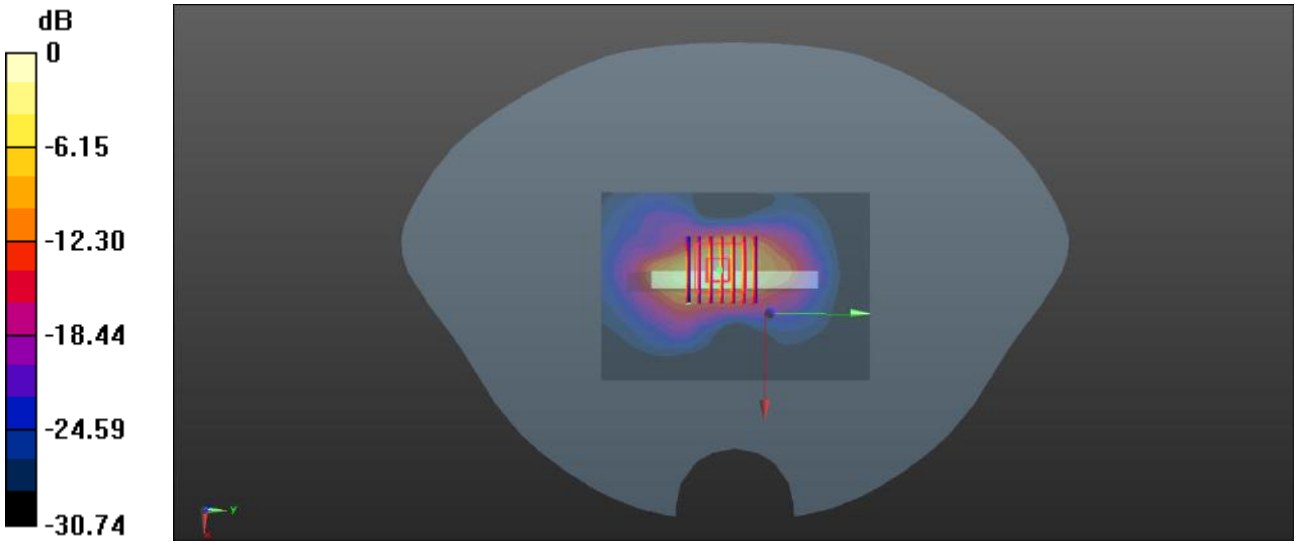
Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 37.00 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 11.8 W/kg

SAR(1 g) = 4.48 W/kg; SAR(10 g) = 1.61 W/kg

Maximum value of SAR (measured) = 5.59 W/kg



0 dB = 5.59 W/kg

Meas.24 Right Head with Cheek on Middle Channel in LTE Band12 mode with Antenna 4 and 1RB

Date: 2021.12.03

Communication System Band: Band 12; Frequency: 711 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 711 MHz; σ = 0.882 S/m; ε_r = 42.282; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.1 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(10.73, 10.73, 10.73); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch23130/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

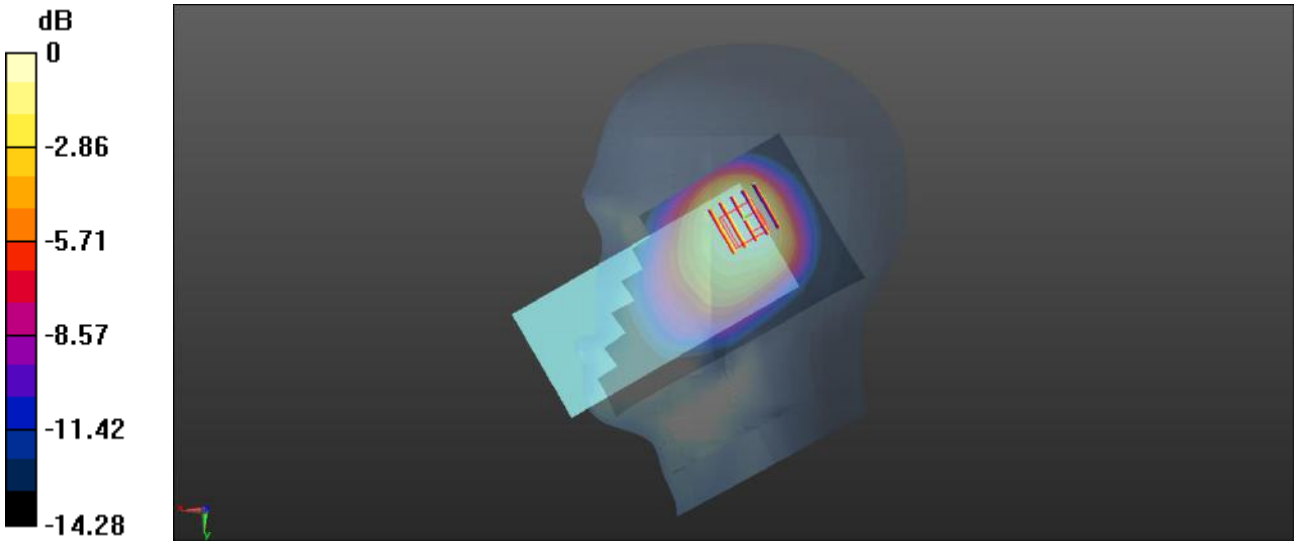
Ch23130/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.70 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.743 W/kg

SAR(1 g) = 0.425 W/kg; SAR(10 g) = 0.285 W/kg

Maximum value of SAR (measured) = 0.446 W/kg



0 dB = 0.446 W/kg

Meas25 Body Plane with Back Side 10mm on Middle Channel in LTE Band12 mode with Antenna 0 and 1RB

Date: 2021.12.03

Communication System Band: Band 12; Frequency: 711 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 711 MHz; σ = 0.882 S/m; ε_r = 42.282; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.1 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(10.73, 10.73, 10.73); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch23130/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

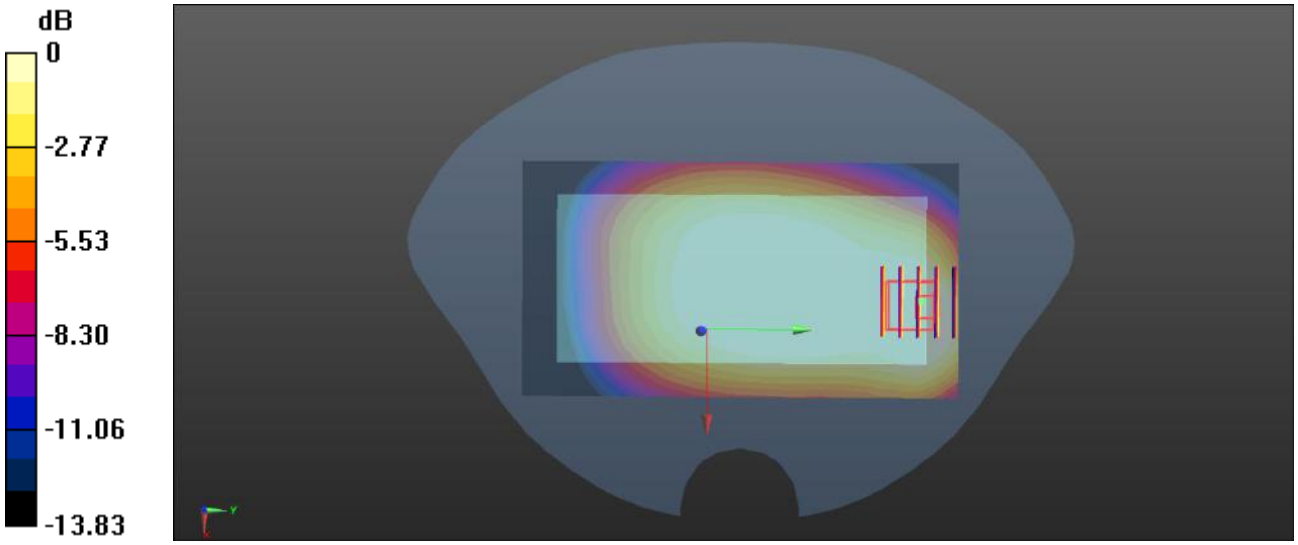
Ch23130/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.65 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.317 W/kg

SAR(1 g) = 0.179 W/kg; SAR(10 g) = 0.110 W/kg

Maximum value of SAR (measured) = 0.193 W/kg



0 dB = 0.193 W/kg

Meas.26 Right Head with Cheek on Middle Channel in LTE Band13 mode with Antenna 4 and 1RB

Date: 2021.12.04

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

Medium parameters used (interpolated): f = 782 MHz; σ = 0.911 S/m; ε_r = 41.502; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.2 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(10.73, 10.73, 10.73); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 0.260 W/kg

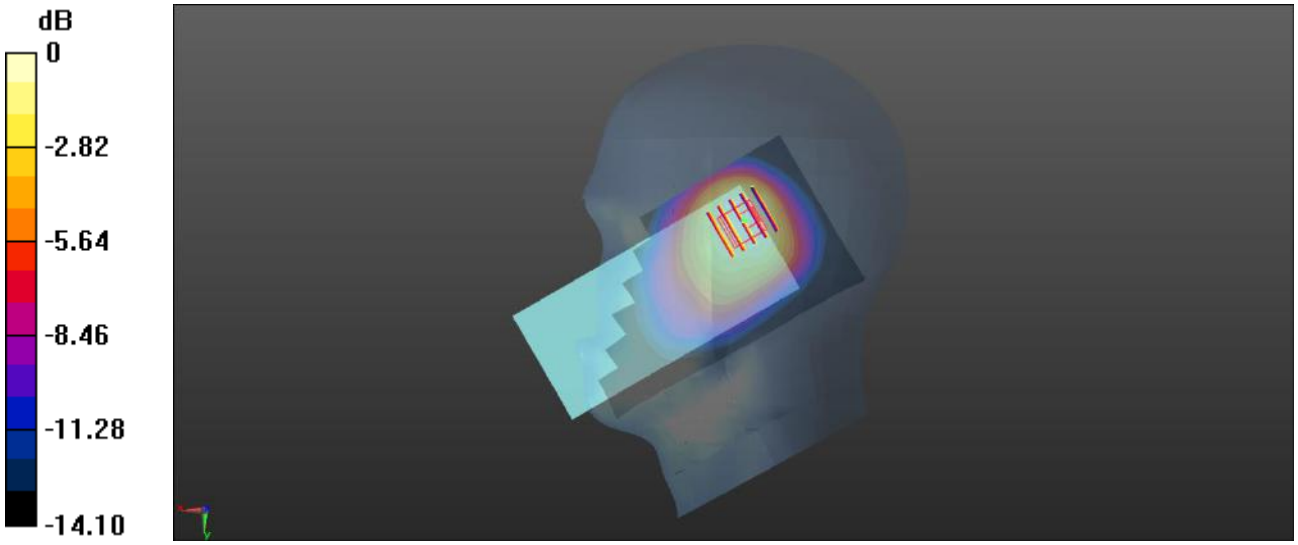
Ch23230/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.27 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.382 W/kg

SAR(1 g) = 0.236 W/kg; SAR(10 g) = 0.159 W/kg

Maximum value of SAR (measured) = 0.244 W/kg



0 dB = 0.244 W/kg

Meas.27 Body Plane with Back Side 10mm on Middle Channel in LTE Band13 mode with Antenna 0 and 1RB

Date: 2021.12.04

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

Medium parameters used (interpolated): f = 782 MHz; σ = 0.911 S/m; ε_r = 41.502; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(10.73, 10.73, 10.73); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 0.294 W/kg

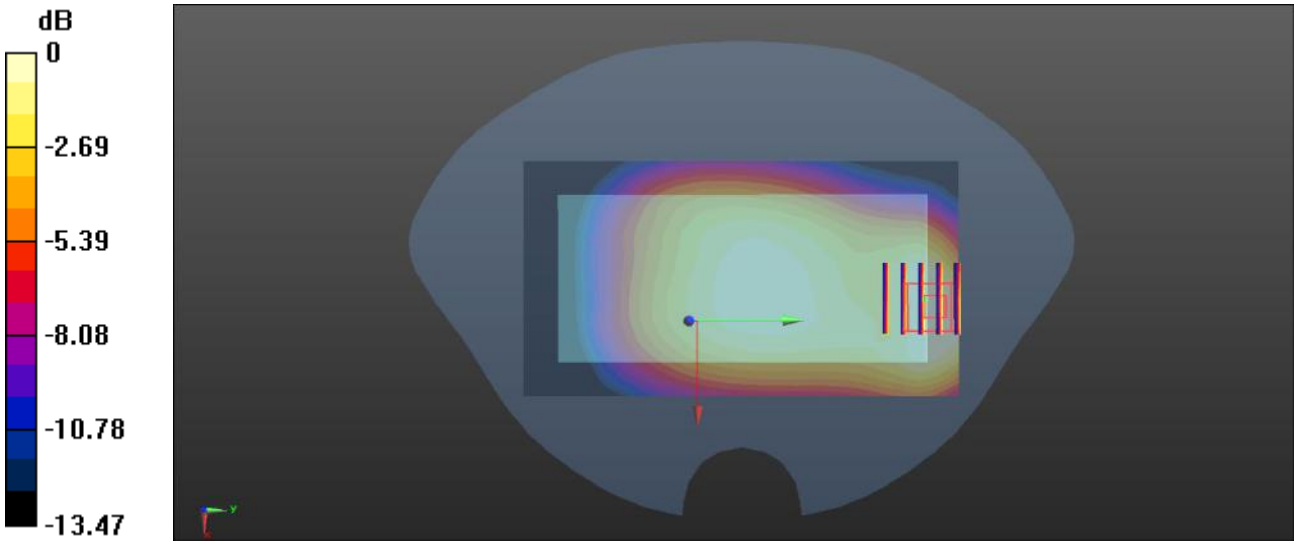
Ch23230/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.24 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.390 W/kg

SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.122 W/kg

Maximum value of SAR (measured) = 0.226 W/kg



0 dB = 0.226 W/kg

Meas28 Right Head with Cheek on Middle Channel in LTE Band26 mode with Antenna 4 and 1RB

Date: 2021.12.05

Communication System Band: Band 26; Frequency: 831.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 831.5 MHz; σ = 0.893 S/m; ε_r = 41.988; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(10.3, 10.3, 10.3); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch26865/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.599 W/kg

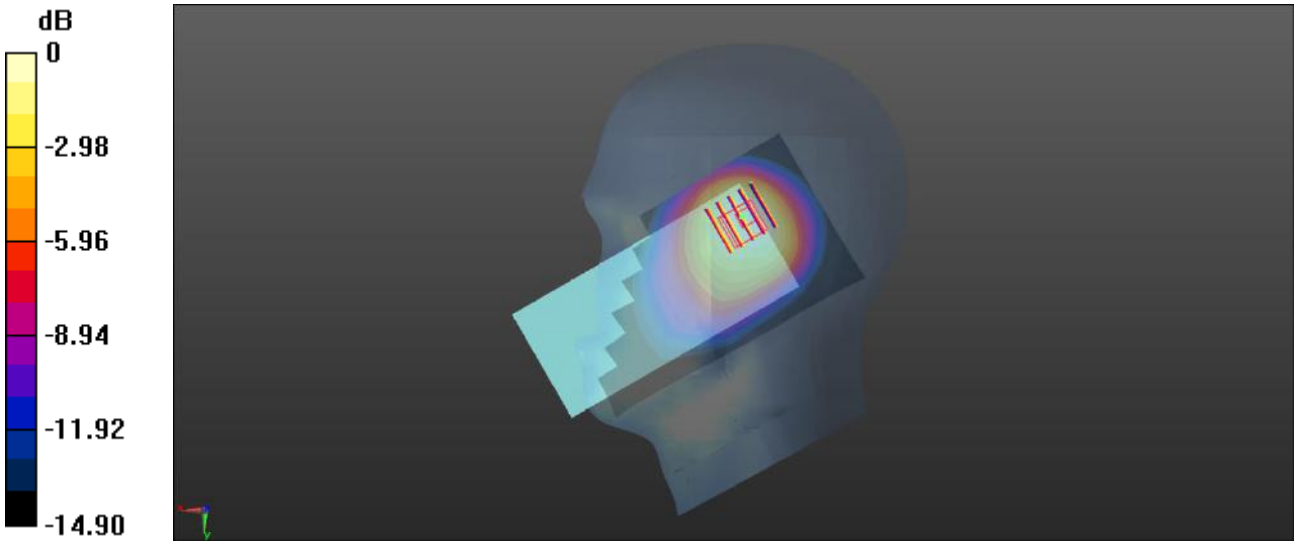
Ch26865/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.11 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.878 W/kg

SAR(1 g) = 0.537 W/kg; SAR(10 g) = 0.353 W/kg

Maximum value of SAR (measured) = 0.570 W/kg



0 dB = 0.570 W/kg

Meas.29 Body Plane with Back Side 10mm on Middle Channel in LTE Band26 mode with Antenna 0 and 1RB

Date: 2021.12.05

Communication System Band: Band 26; Frequency: 831.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 831.5 MHz; σ = 0.893 S/m; ε_r = 41.988; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(10.3, 10.3, 10.3); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch26865/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

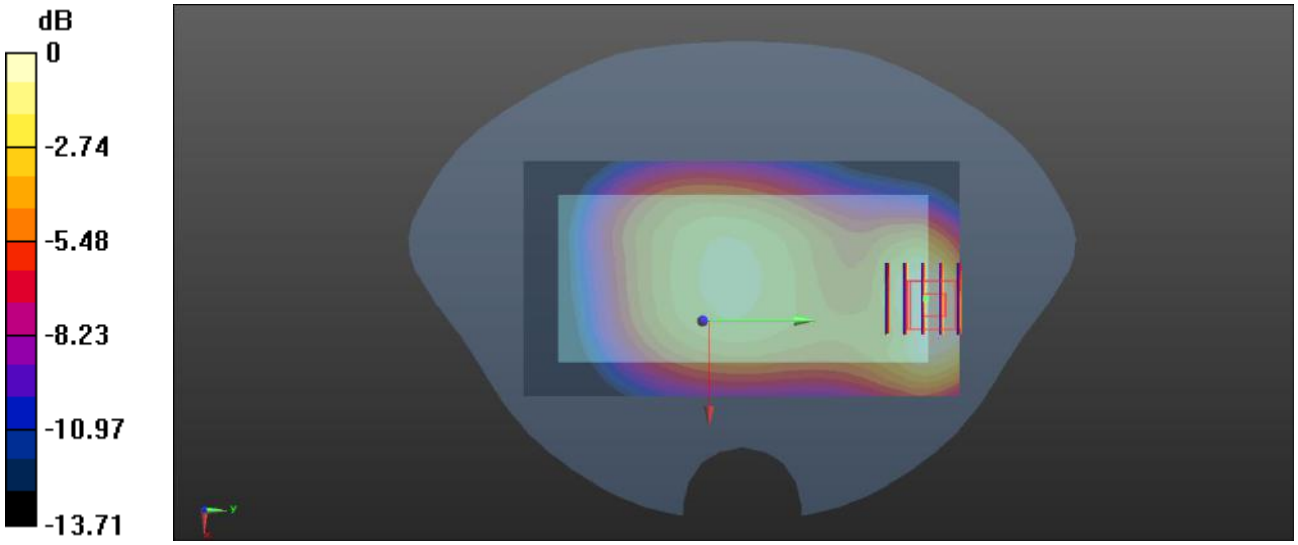
Ch26865/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.98 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.638 W/kg

SAR(1 g) = 0.352 W/kg; SAR(10 g) = 0.200 W/kg

Maximum value of SAR (measured) = 0.376 W/kg



0 dB = 0.376 W/kg

Meas.30 Right Head with Tilt on Low Channel in LTE Band66 mode with Antenna 4 and 50RB

Date: 2021.12.12

Communication System Band: Band 66; Frequency: 1720 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1720 MHz; σ = 1.359 S/m; ε_r = 40.407; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.5 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(8.54, 8.54, 8.54); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch132072/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

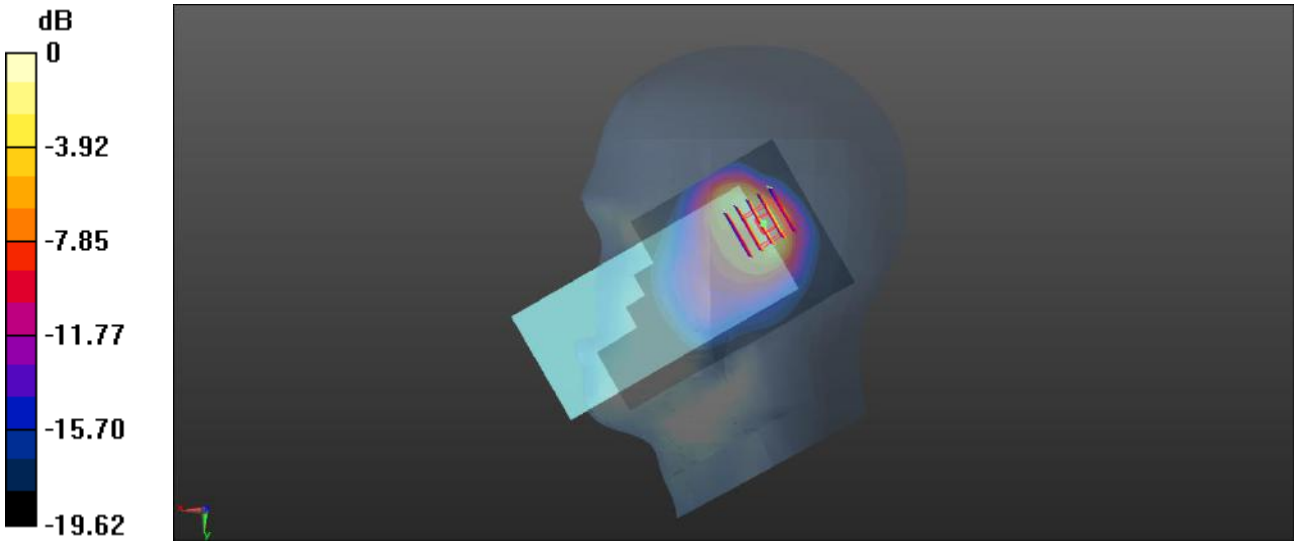
Ch132072/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.32 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 0.911 W/kg; SAR(10 g) = 0.430 W/kg

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



0 dB = 1.07 W/kg

Meas.31 Body Plane with Bottom Edge 10mm on Middle Channel in LTE Band66 mode with Antenna 0 and 50RB

Date: 2021.12.12

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

Medium parameters used (interpolated): f = 1745 MHz; σ = 1.377 S/m; ε_r = 40.078; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(8.54, 8.54, 8.54); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch132322/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.646 W/kg

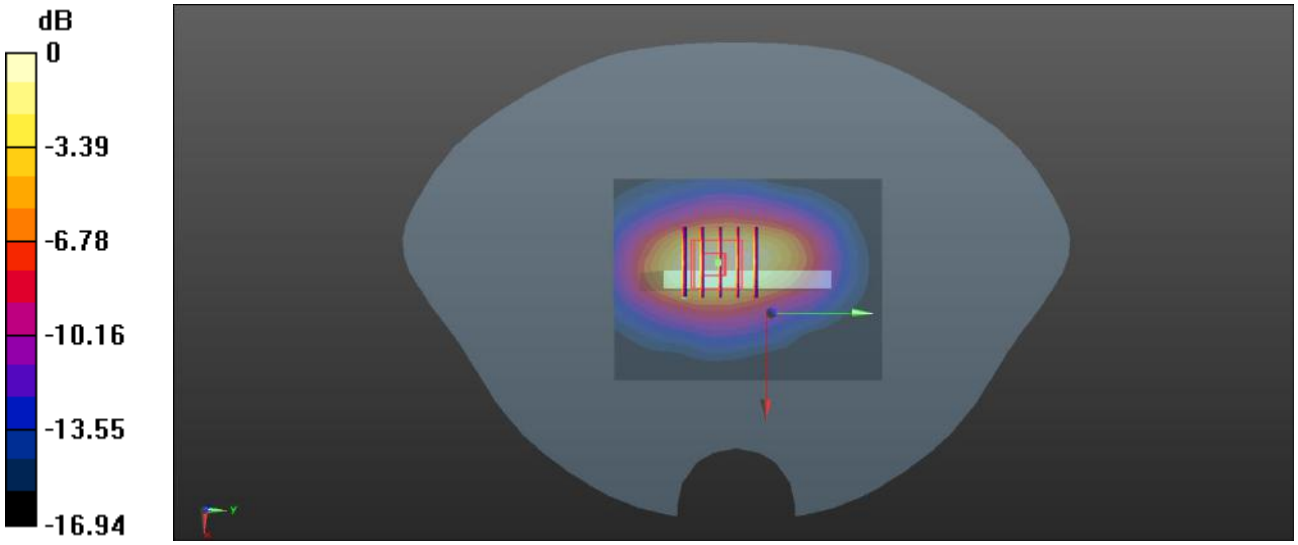
Ch132322/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.47 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.935 W/kg

SAR(1 g) = 0.559 W/kg; SAR(10 g) = 0.311 W/kg

Maximum value of SAR (measured) = 0.618 W/kg



0 dB = 0.618 W/kg

Meas.32 Body Plane with Bottom Edge 0mm on Middle Channel in LTE Band66 mode with Antenna 0 and 50RB

Date: 2021.12.12

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

Medium parameters used (interpolated): f = 1745 MHz; σ = 1.377 S/m; ε_r = 40.078; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(8.54, 8.54, 8.54); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch132322/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.30 W/kg

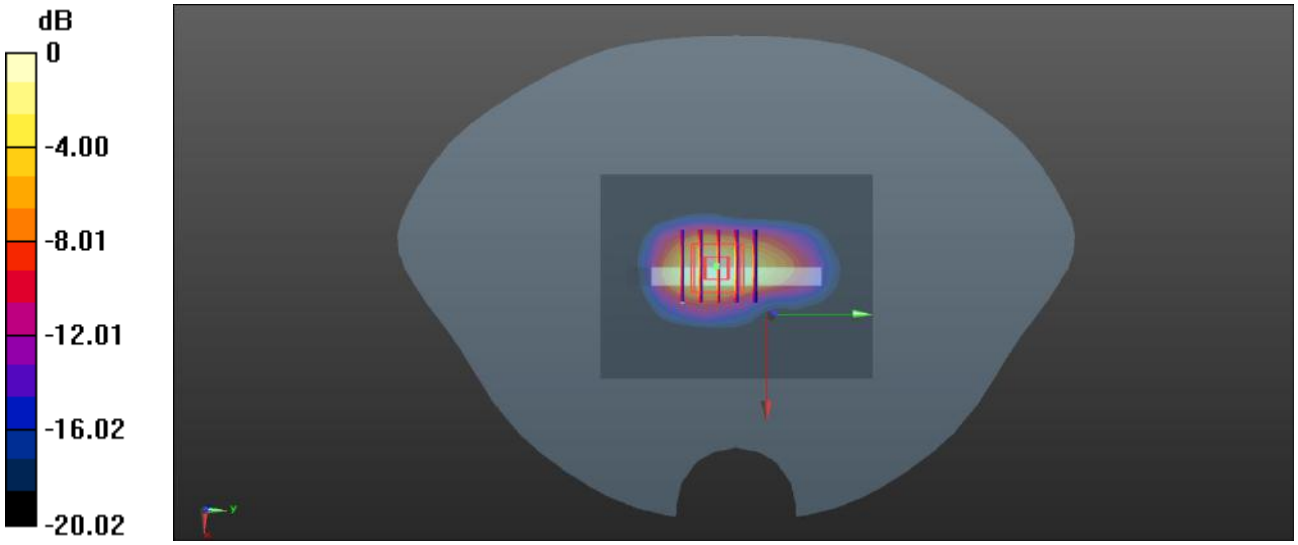
Ch132322/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 46.65 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 7.22 W/kg

SAR(1 g) = 3.31 W/kg; SAR(10 g) = 1.5 W/kg

Maximum value of SAR (measured) = 3.90 W/kg



0 dB = 3.90 W/kg

Meas.33 Right Head with Cheek on Middle Channel in LTE Band38 mode with Antenna 4 and 1RB

Date: 2021.12.13

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

Medium parameters used (interpolated): f = 2595 MHz; σ = 1.967 S/m; ε_r = 38.443; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.3 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.49, 7.49, 7.49); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 0.963 W/kg

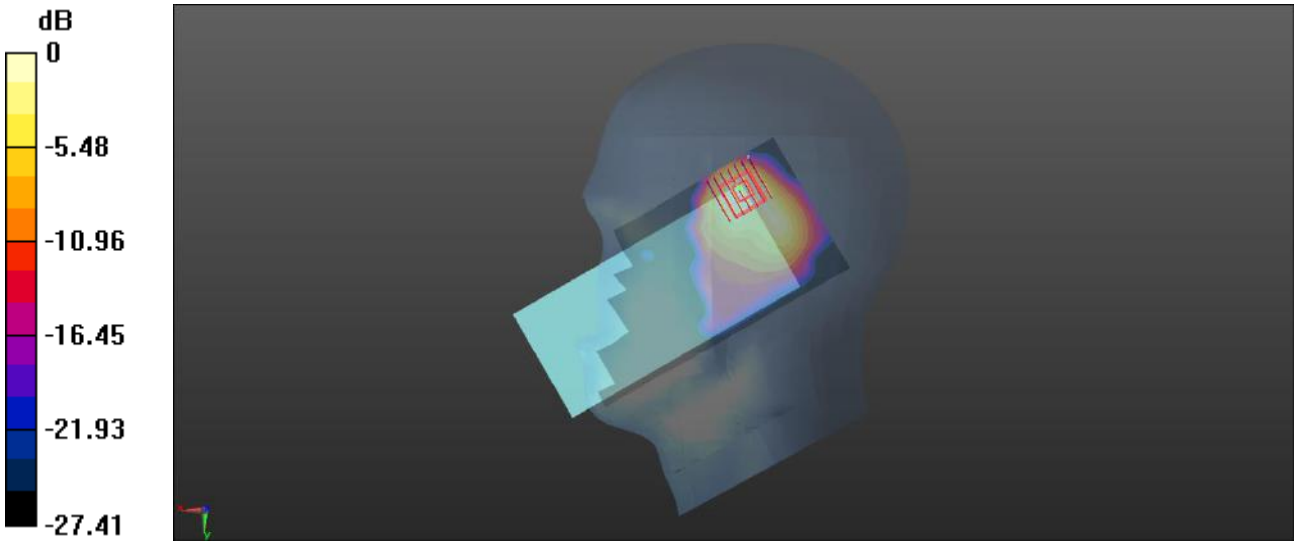
Ch38000/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.73 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.91 W/kg

SAR(1 g) = 0.816 W/kg; SAR(10 g) = 0.357 W/kg

Maximum value of SAR (measured) = 0.889 W/kg



0 dB = 0.889 W/kg

Meas.34 Body Plane with Top Edge 10mm on Middle Channel in LTE Band38 mode with Antenna 4 and 1RB

Date: 2021.12.13

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

Medium parameters used (interpolated): f = 2595 MHz; σ = 1.967 S/m; ε_r = 38.443; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.49, 7.49, 7.49); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch38000/Area Scan (71x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.457 W/kg

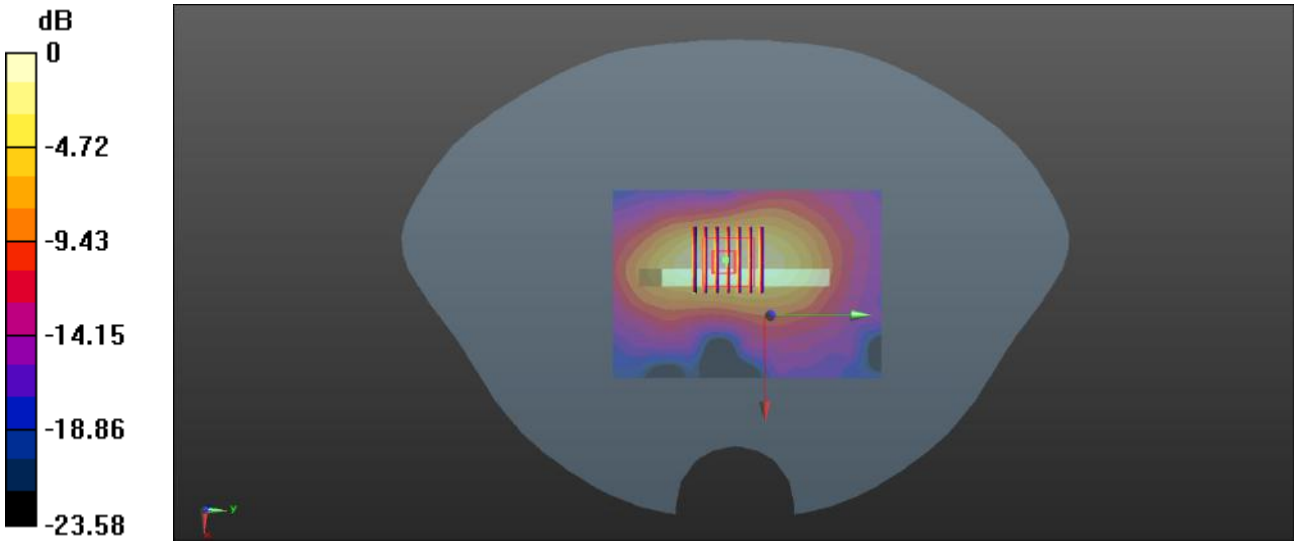
Ch38000/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.73 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.810 W/kg

SAR(1 g) = 0.407 W/kg; SAR(10 g) = 0.195 W/kg

Maximum value of SAR (measured) = 0.464 W/kg



0 dB = 0.464 W/kg

Meas.35 Right Head with Cheek on Middle Channel in LTE Band41 mode with Antenna 4 and 50RB

Date: 2021.12.14

Communication System Band: Band 41; Frequency: 2593 MHz;Duty Cycle: 1:1.58

Medium parameters used (interpolated): f = 2593 MHz; σ = 1.969 S/m; ε_r = 38.484; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.6 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.49, 7.49, 7.49); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 1.05 W/kg

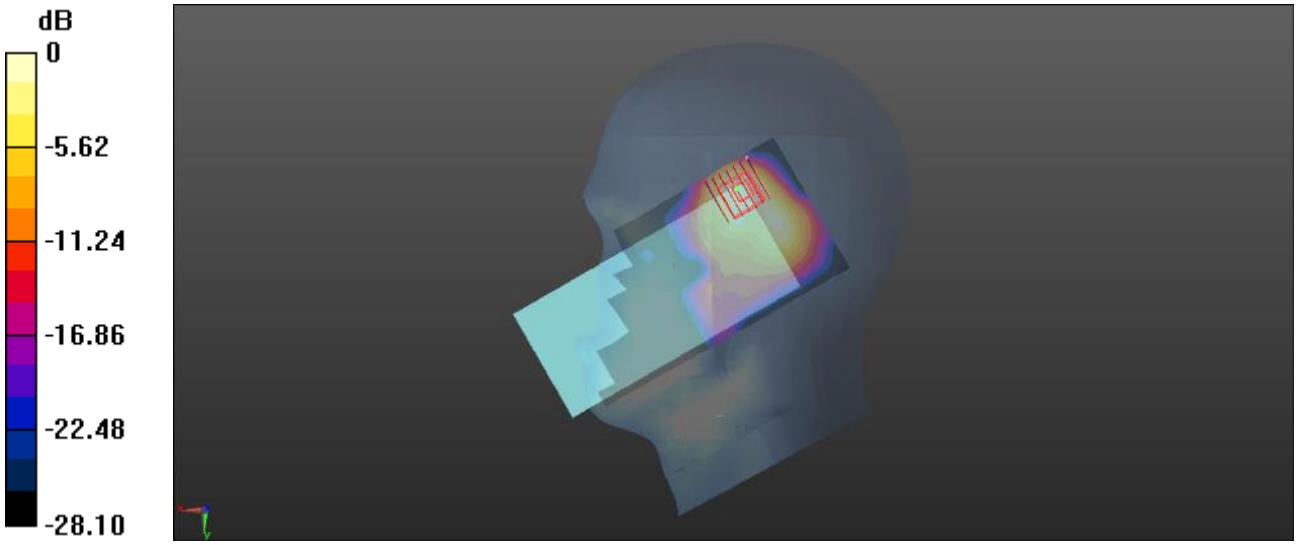
Ch40620/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.75 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 2.10 W/kg

SAR(1 g) = 0.911 W/kg; SAR(10 g) = 0.407 W/kg

Maximum value of SAR (measured) = 0.993 W/kg



0 dB = 0.993 W/kg

Meas.36 Body Plane with Top Edge 10mm on High Channel in LTE Band41 mode with Antenna 4 and 1RB

Date: 2021.12.14

Communication System Band: Band 41; Frequency: 2680 MHz;Duty Cycle: 1:1.58

Medium parameters used (interpolated): f = 2680 MHz; σ = 2.071 S/m; ε_r = 37.932; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.49, 7.49, 7.49); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch41490/Area Scan (61x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.446 W/kg

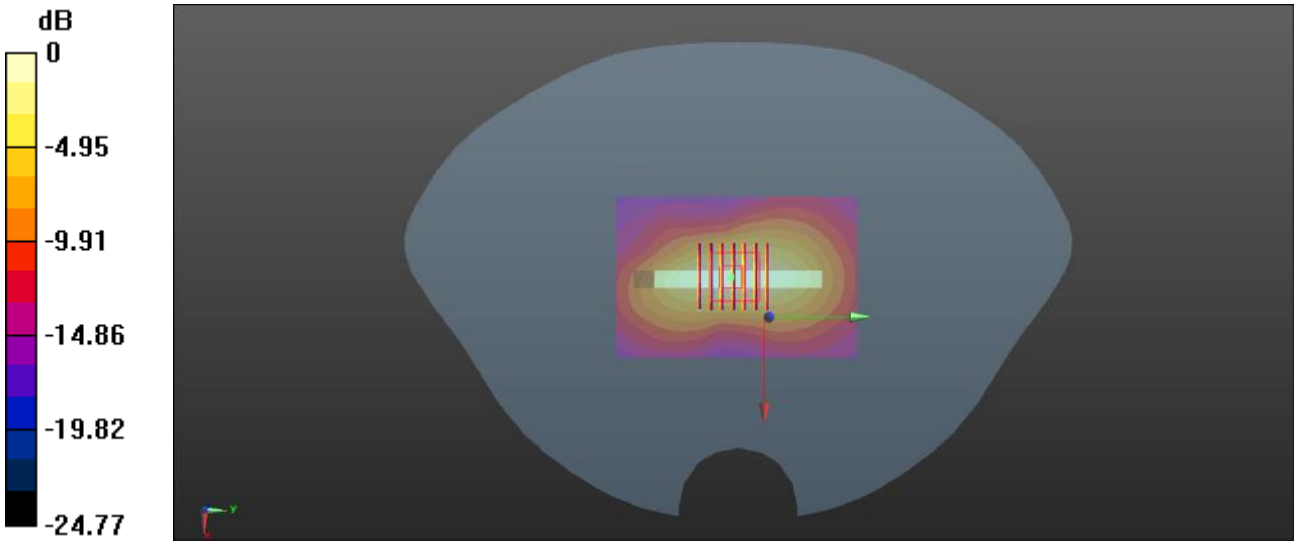
Ch41490/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.72 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.760 W/kg

SAR(1 g) = 0.382 W/kg; SAR(10 g) = 0.183 W/kg

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



0 dB = 0.437 W/kg

Meas.37 Left Head with Cheek on Low Channel in IEEE802.11b mode

Date: 2021.12.31

Communication System Band: 2.4G; Frequency: 2437 MHz;Duty Cycle: 1:1.005

Medium parameters used (interpolated): f = 2437 MHz; σ = 1.759 S/m; ε_r = 40.113; ρ = 1000 kg/m^3

Phantom section: Left Section

Ambient Temperature:22.5 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.68, 7.68, 7.68); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: DAE4 Sn1454; Calibrated: 2021.11.05
- 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) = 0.536 W/kg

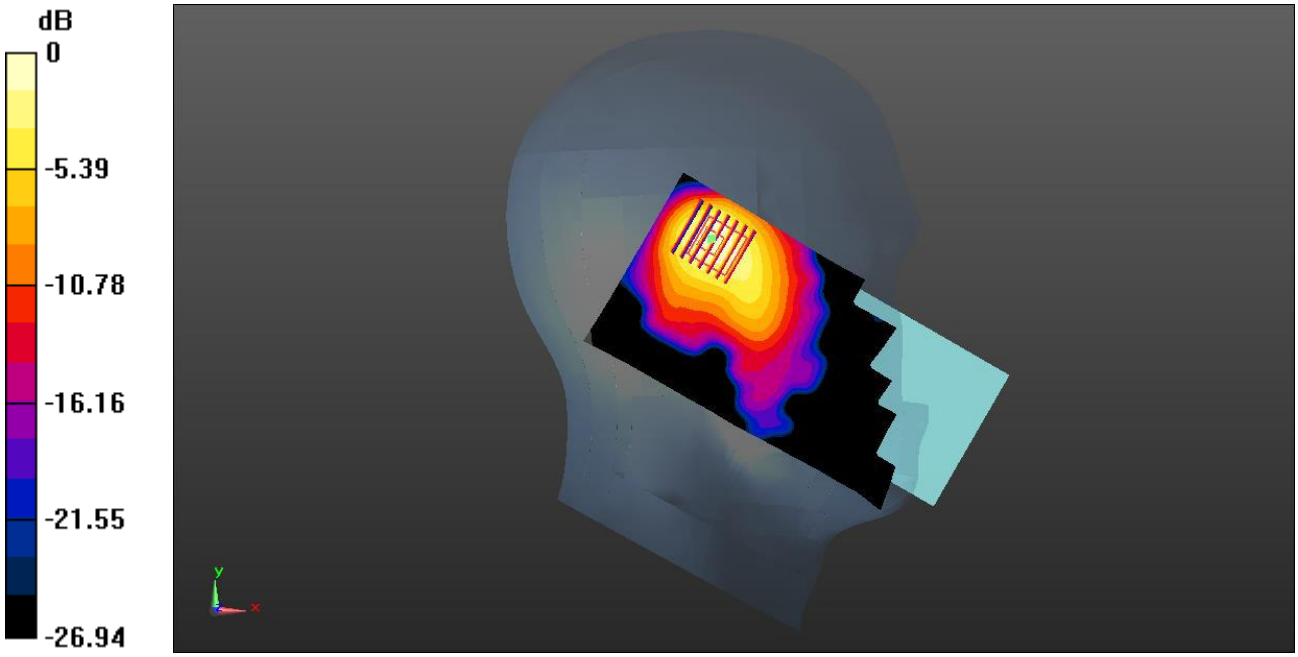
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.012 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.944 W/kg

SAR(1 g) = 0.465 W/kg; SAR(10 g) = 0.230 W/kg

Maximum value of SAR (measured) = 0.525 W/kg



0 dB = 0.525 W/kg

Meas.38 Body Plane with Back Side 10mm on Middle Channel in IEEE802.11b mode

Date: 2021.12.31

Communication System Band: 2.4G; Frequency: 2437 MHz;Duty Cycle: 1:1.005

Medium parameters used (interpolated): f = 2437 MHz; σ = 1.759 S/m; ε_r = 40.113; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.68, 7.68, 7.68); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; 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) = 0.187 W/kg

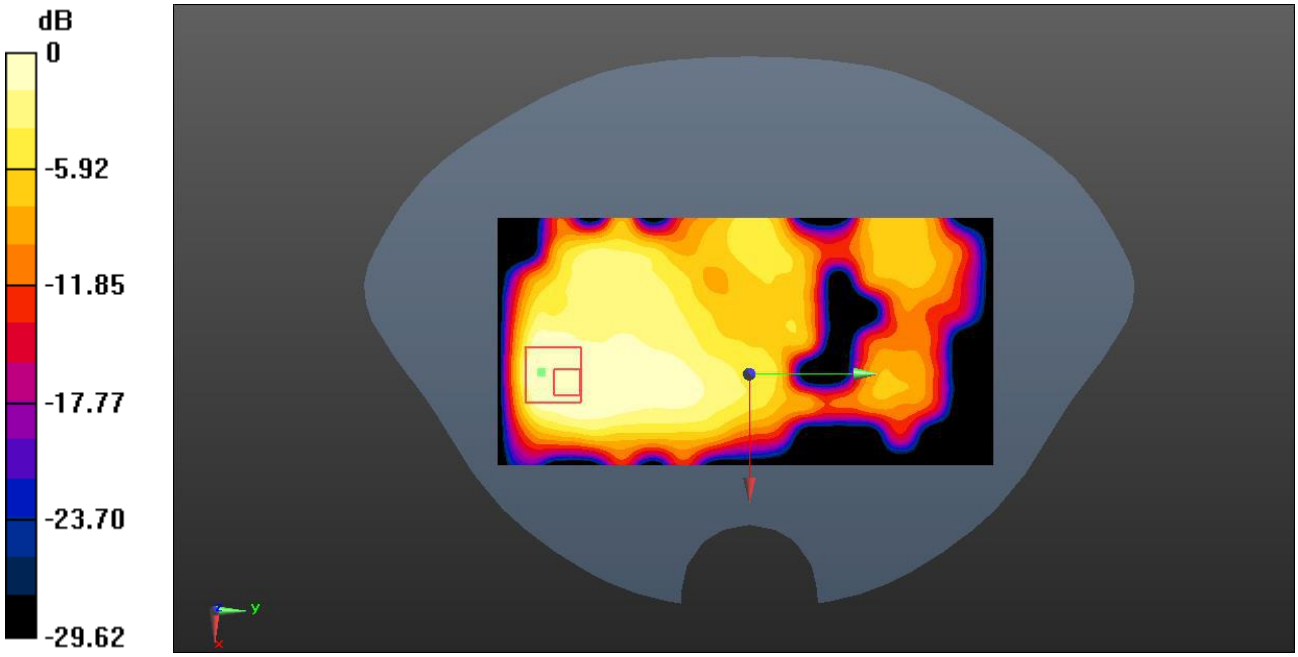
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.220 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.319 W/kg

SAR(1 g) = 0.099 W/kg; SAR(10 g) = 0.046 W/kg

Maximum value of SAR (measured) = 0.108 W/kg



0 dB = 0.108 W/kg

Meas.39 Left Head with Tilt on Channel 52 in IEEE802.11ac20 mode

Date: 2021.12.16

Communication System Band: WLAN(ac); Frequency: 5260 MHz;Duty Cycle: 1:1.032

Medium parameters used (interpolated): f = 5260 MHz; σ = 4.723 S/m; ε_r = 35.67; ρ = 1000 kg/m^3

Phantom section: Left Section

Ambient Temperature:22.2 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(5.46, 5.46, 5.46); Calibrated: 2021.08.12;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch52/Area Scan (101x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

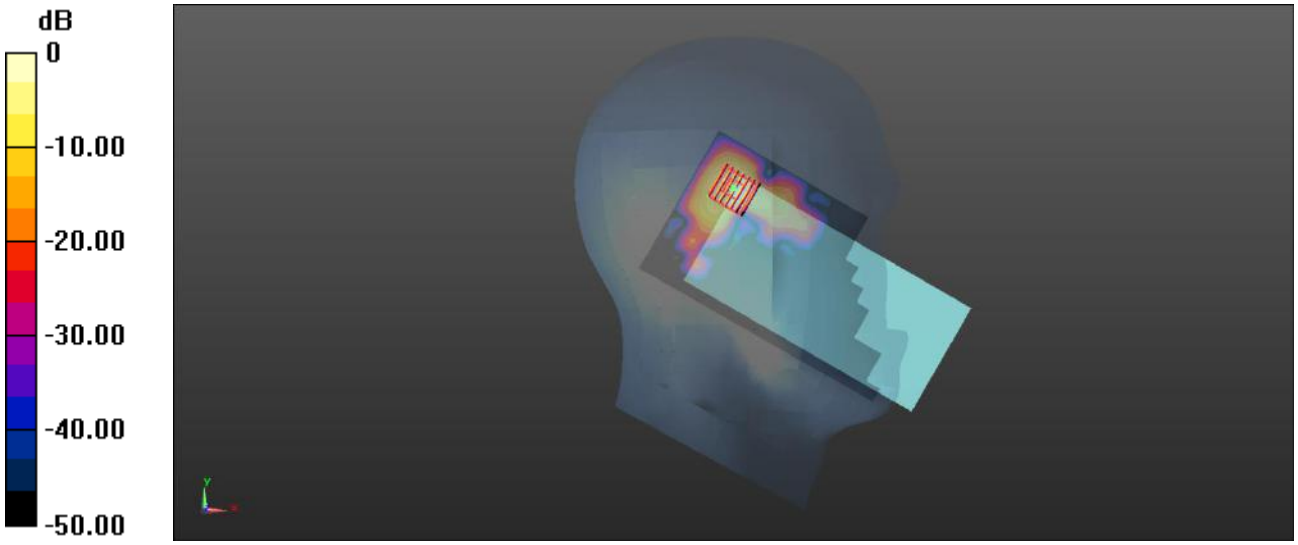
Ch52/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

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

Peak SAR (extrapolated) = 2.15 W/kg

SAR(1 g) = 0.483 W/kg; SAR(10 g) = 0.123 W/kg

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



0 dB = 1.07 W/kg

Meas.40 Left Head with Cheek on Channel 116 in IEEE802.11ac20 mode

Date: 2021.12.17

Communication System Band: WLAN(ac); Frequency: 5580 MHz;Duty Cycle: 1:1.032

Medium parameters used: f = 5580 MHz; σ = 5.018 S/m; ε_r = 35.554; ρ = 1000 kg/m^3

Phantom section: Left Section

Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(4.88, 4.88, 4.88); Calibrated: 2021.08.12;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.895 W/kg

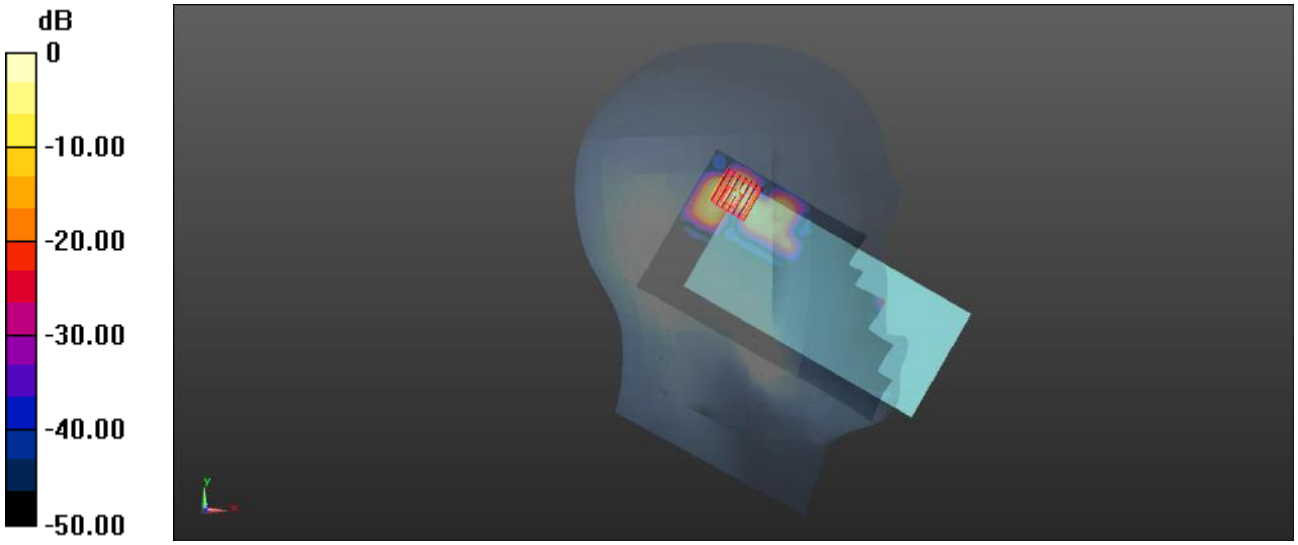
Ch116/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.5320 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 2.69 W/kg

SAR(1 g) = 0.594 W/kg; SAR(10 g) = 0.141 W/kg

Maximum value of SAR (measured) = 1.45 W/kg



0 dB = 1.45 W/kg

Meas.41 Left Head with Cheek on Channel 157 in IEEE802.11ac20 mode

Date: 2021.12.20

Communication System Band: WLAN(ac); Frequency: 5785 MHz;Duty Cycle: 1:1.032

Medium parameters used (interpolated): f = 5785 MHz; σ = 5.242 S/m; ε_r = 35.06; ρ = 1000 kg/m^3

Phantom section: Left Section

Ambient Temperature:22.3 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(4.92, 4.92, 4.92); Calibrated: 2021.08.12;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch157/Area Scan (101x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.698 W/kg

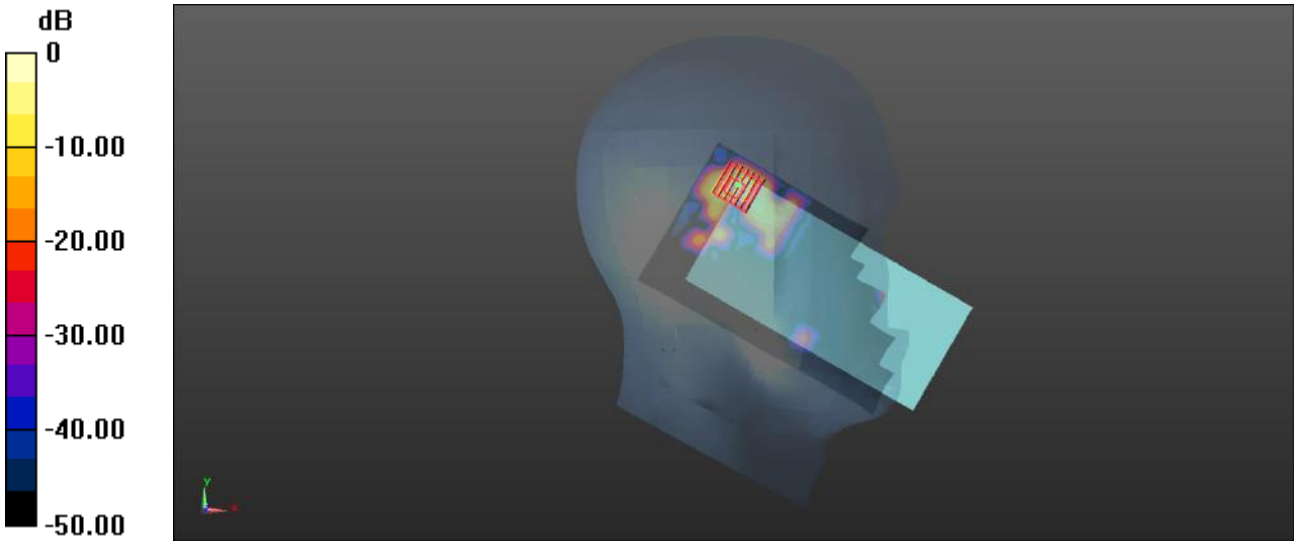
Ch157/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.021 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 2.21 W/kg

SAR(1 g) = 0.479 W/kg; SAR(10 g) = 0.130 W/kg

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



0 dB = 1.03 W/kg

Meas.42 Body Plane with Top Edge 10mm on Channel 36 in IEEE802.11a mode

Date: 2021.12.16

Communication System Band: WLAN(a); Frequency: 5180 MHz;Duty Cycle: 1:1.033

Medium parameters used (interpolated): f = 5180 MHz; σ = 4.566 S/m; ε_r = 36.693; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(5.46, 5.46, 5.46); Calibrated: 2021.08.12;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch36/Area Scan (81x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.91 W/kg

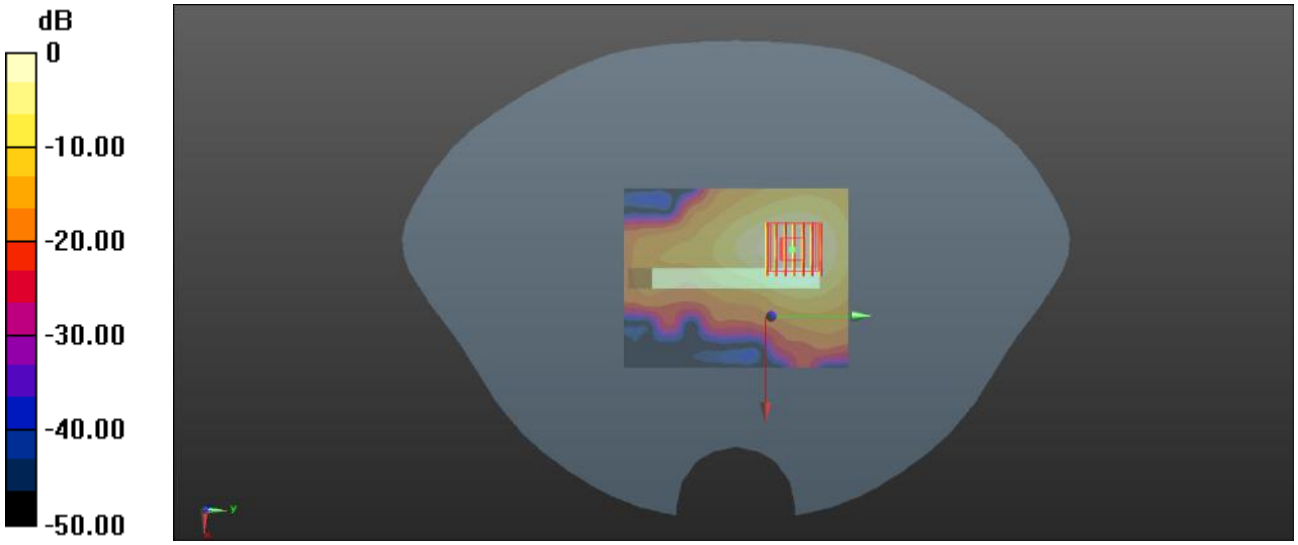
Ch36/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.328 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.57 W/kg

SAR(1 g) = 1 W/kg; SAR(10 g) = 0.358 W/kg

Maximum value of SAR (measured) = 1.89 W/kg



0 dB = 1.89 W/kg

Meas.43 Body Plane with Top Edge 10mm on Channel 157 in IEEE802.11a mode

Date: 2021.12.20

Communication System Band: WLAN(a); Frequency: 5785 MHz;Duty Cycle: 1:1.033

Medium parameters used (interpolated): f = 5785 MHz; σ = 5.242 S/m; ε_r = 35.06; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(4.92, 4.92, 4.92); Calibrated: 2021.08.12;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch157/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.822 W/kg

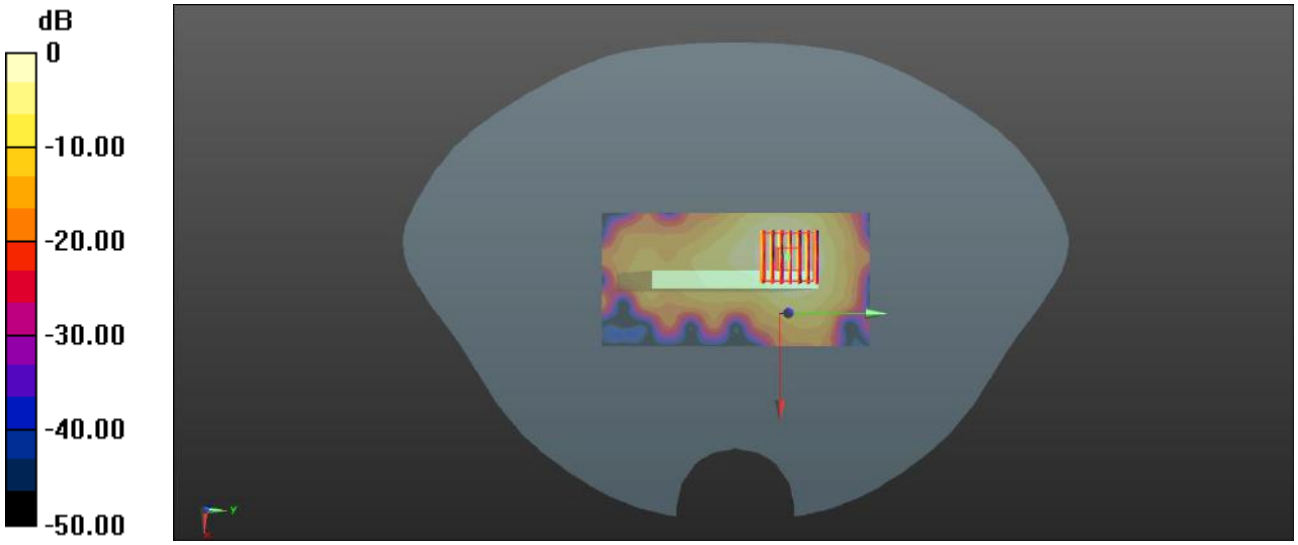
Ch157/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.290 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 0.421 W/kg; SAR(10 g) = 0.146 W/kg

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



0 dB = 0.826 W/kg

Meas.44 Body Plane with Top Edge 0mm on Channel 52 in IEEE802.11a mode

Date: 2021.12.16

Communication System Band: WLAN(a); Frequency: 5260 MHz;Duty Cycle: 1:1.033

Medium parameters used (interpolated): f = 5260 MHz; σ = 4.723 S/m; ε_r = 35.67; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(5.46, 5.46, 5.46); Calibrated: 2021.08.12;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch52/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 19.0 W/kg

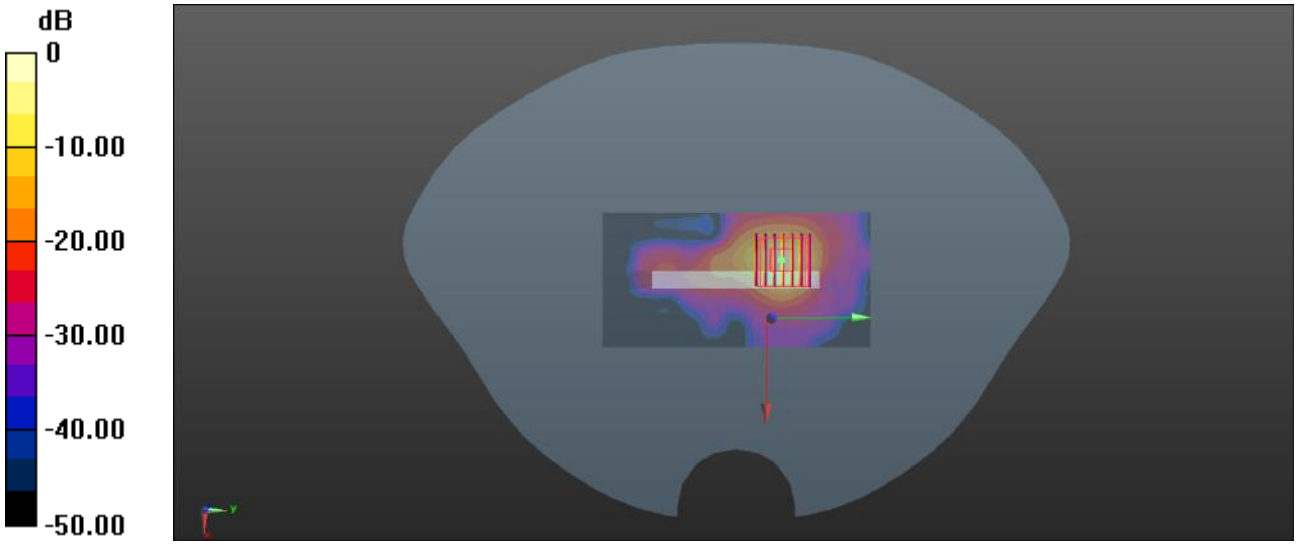
Ch52/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.878 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 46.8 W/kg

SAR(1 g) = 7.44 W/kg; SAR(10 g) = 1.49 W/kg

Maximum value of SAR (measured) = 19.5 W/kg



0 dB = 19.5 W/kg

Meas.45 Body Plane with Top Edge 0mm on Channel 116 in IEEE802.11a mode

Date: 2021.12.17

Communication System Band: WLAN(a); Frequency: 5580 MHz;Duty Cycle: 1:1.033

Medium parameters used (interpolated): f = 5580 MHz; σ = 5.018 S/m; ε_r = 35.554; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(4.88, 4.88, 4.88); Calibrated: 2021.08.12;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch116/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 14.4 W/kg

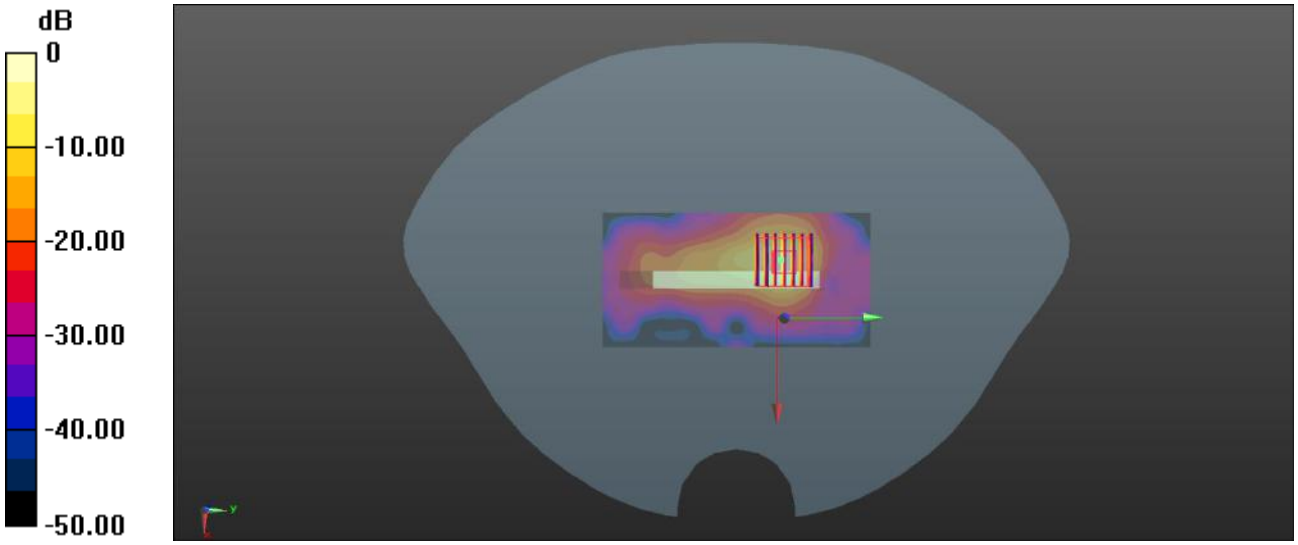
Ch116/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.939 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 36.6 W/kg

SAR(1 g) = 5.91 W/kg; SAR(10 g) = 1.28 W/kg

Maximum value of SAR (measured) = 14.6 W/kg



0 dB = 14.6 W/kg

Meas.46 Left Head with Cheek on Middle Channel in Bluetooth mode

Date: 2021.12.15

Communication System Band: BT; Frequency: 2441 MHz;Duty Cycle: 1:1.304

Medium parameters used (interpolated): f = 2441 MHz; σ = 1.791 S/m; ε_r = 39.695; ρ = 1000 kg/m^3

Phantom section: Left Section

Ambient Temperature:22.2 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.68, 7.68, 7.68); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch39/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.137 W/kg

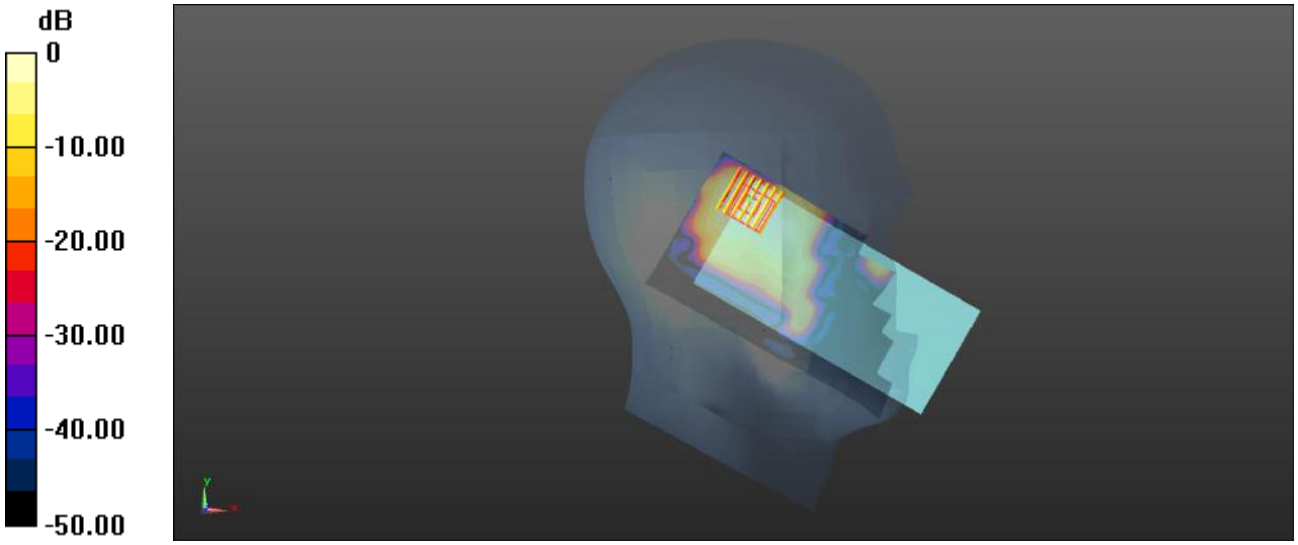
Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.927 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.169 W/kg

SAR(1 g) = 0.085 W/kg; SAR(10 g) = 0.041 W/kg

Maximum value of SAR (measured) = 0.0929 W/kg



0 dB = 0.0929 W/kg

Meas.47 Body Plane with Back Side 10mm on Middle Channel in Bluetooth mode

Date: 2021.12.15

Communication System Band: BT; Frequency: 2441 MHz;Duty Cycle: 1:1.304

Medium parameters used (interpolated): f = 2441 MHz; σ = 1.791 S/m; ε_r = 39.695; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.68, 7.68, 7.68); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch39/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0413 W/kg

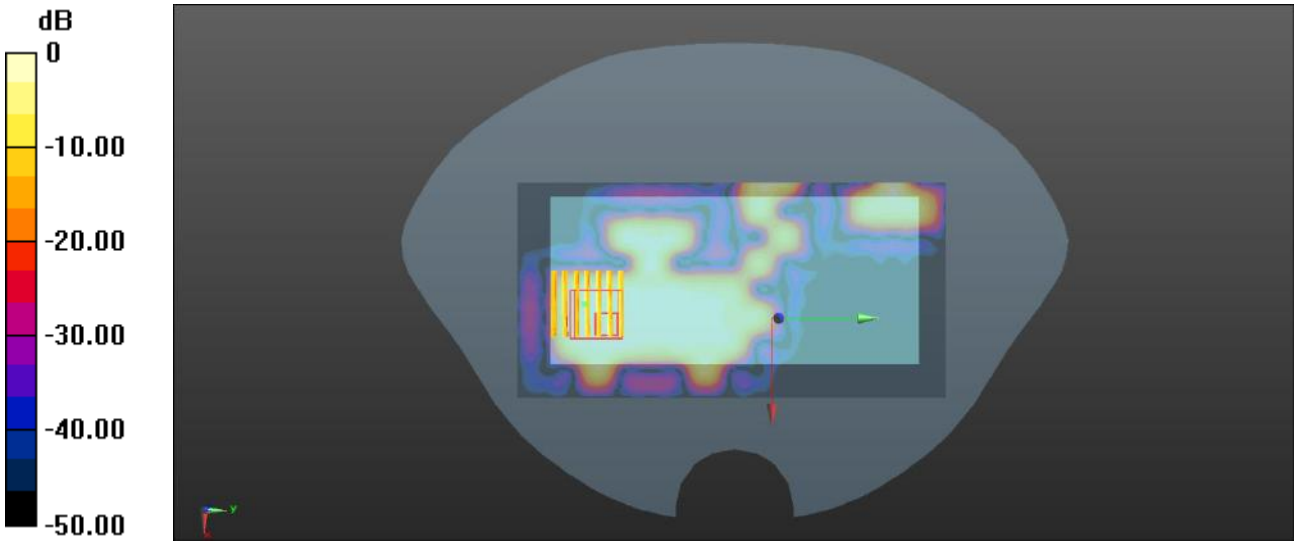
Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

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

Peak SAR (extrapolated) = 0.0360 W/kg

SAR(1 g) = 0.014 W/kg; SAR(10 g) = 0.00672 W/kg

Maximum value of SAR (measured) = 0.0159 W/kg



0 dB = 0.0159 W/kg

Meas.48 Right Head with Cheek on PCC21100+SCC21298 **Channel in LTE Band7 mode with Antenna 4**

Date: 2021.12.11

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

Medium parameters used (interpolated): f = 2535 MHz; σ = 1.899 S/m; ε_r = 39.105; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.5 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.68, 7.68, 7.68); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch21100+21298/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.642 W/kg

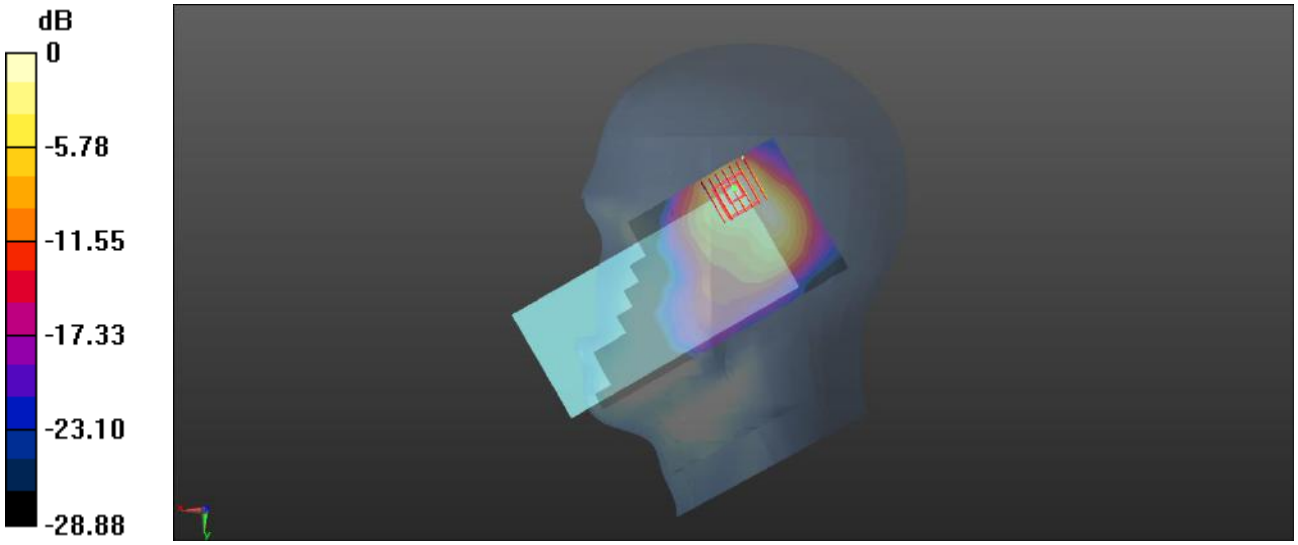
Ch21100+21298/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.26 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.534 W/kg; SAR(10 g) = 0.249 W/kg

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



0 dB = 0.604 W/kg

Meas.49 Body Plane with Top Edge 10mm on PCC21100+SCC21298 **Channel in LTE Band7 mode with Antenna 4**

Date: 2021.12.11

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

Medium parameters used (interpolated): f = 2535 MHz; σ = 1.899 S/m; ε_r = 39.105; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.68, 7.68, 7.68); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch21100+21298/Area Scan (71x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

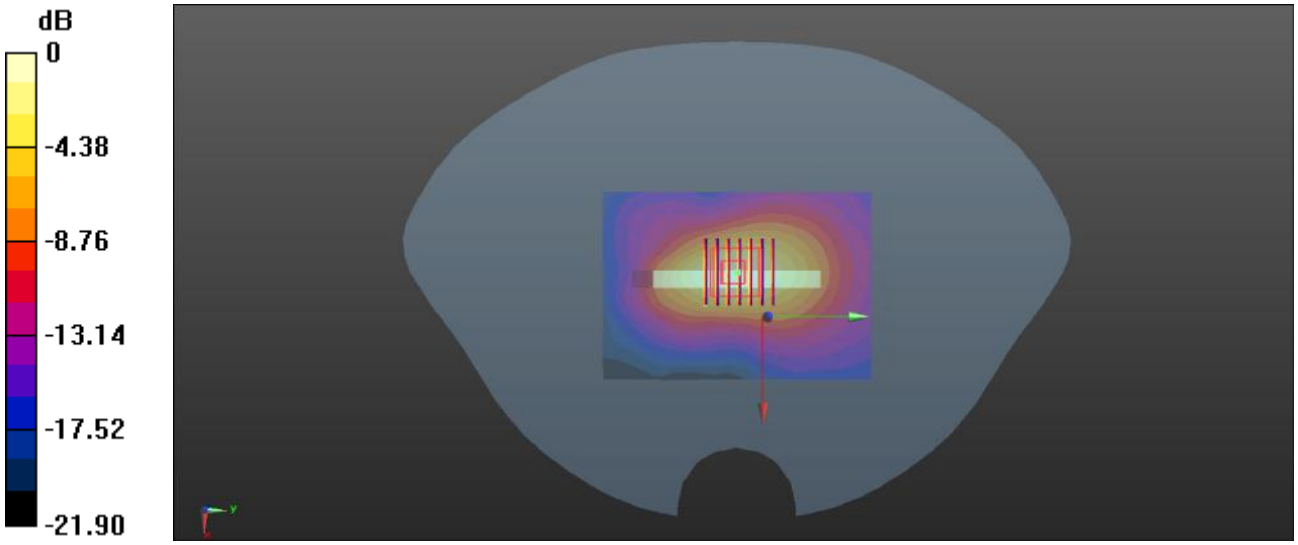
Ch21100+21298/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.15 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.716 W/kg

SAR(1 g) = 0.375 W/kg; SAR(10 g) = 0.181 W/kg

Maximum value of SAR (measured) = 0.424 W/kg



0 dB = 0.424 W/kg

Meas.50 Body Plane with Top Edge 0mm on PCC21100+SCC21298 **Channel in LTE Band7 mode with Antenna 4**

Date: 2021.12.11

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

Medium parameters used (interpolated): f = 2535 MHz; σ = 1.899 S/m; ε_r = 39.105; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.68, 7.68, 7.68); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch21100+21298/Area Scan (71x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

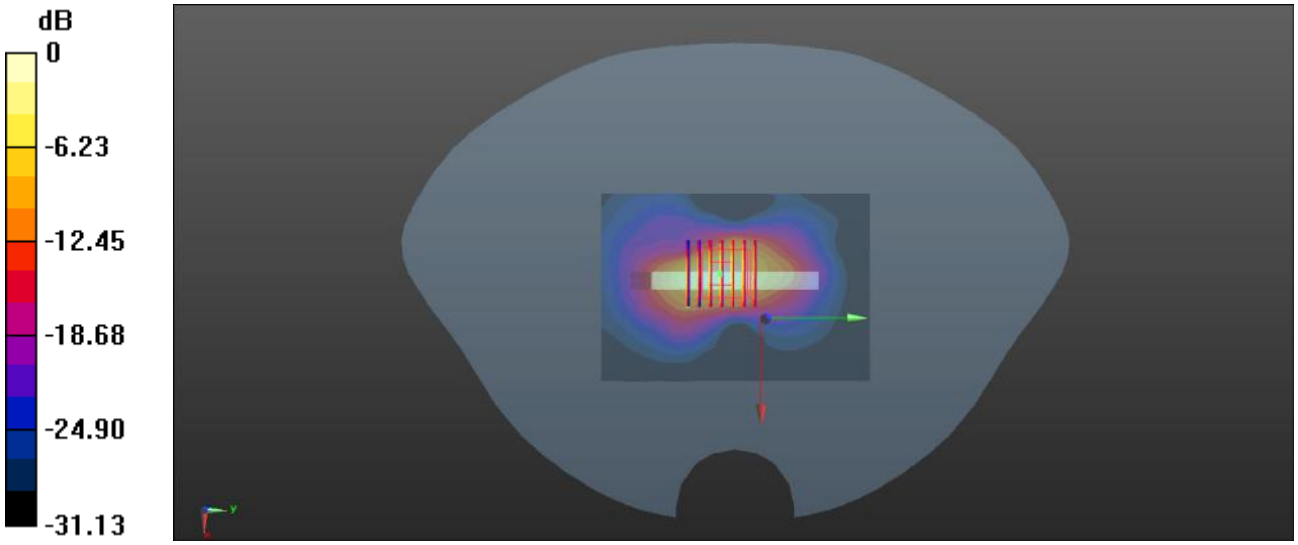
Ch21100+21298/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 37.41 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 8.59 W/kg

SAR(1 g) = 3.43 W/kg; SAR(10 g) = 1.24 W/kg

Maximum value of SAR (measured) = 4.27 W/kg



0 dB = 4.27 W/kg

Meas.51 Right Head with Cheek on PCC38099+SCC37901 Channel in LTE B38 mode with Antenna 4

Date: 2021.12.13

Communication System Band: Band 38; Frequency: 2604.9 MHz;Duty Cycle: 1:1.58

Medium parameters used (interpolated): f = 2604.9 MHz; σ = 1.979 S/m; ε_r = 38.343; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.3 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.49, 7.49, 7.49); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch38099+37901/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.796 W/kg

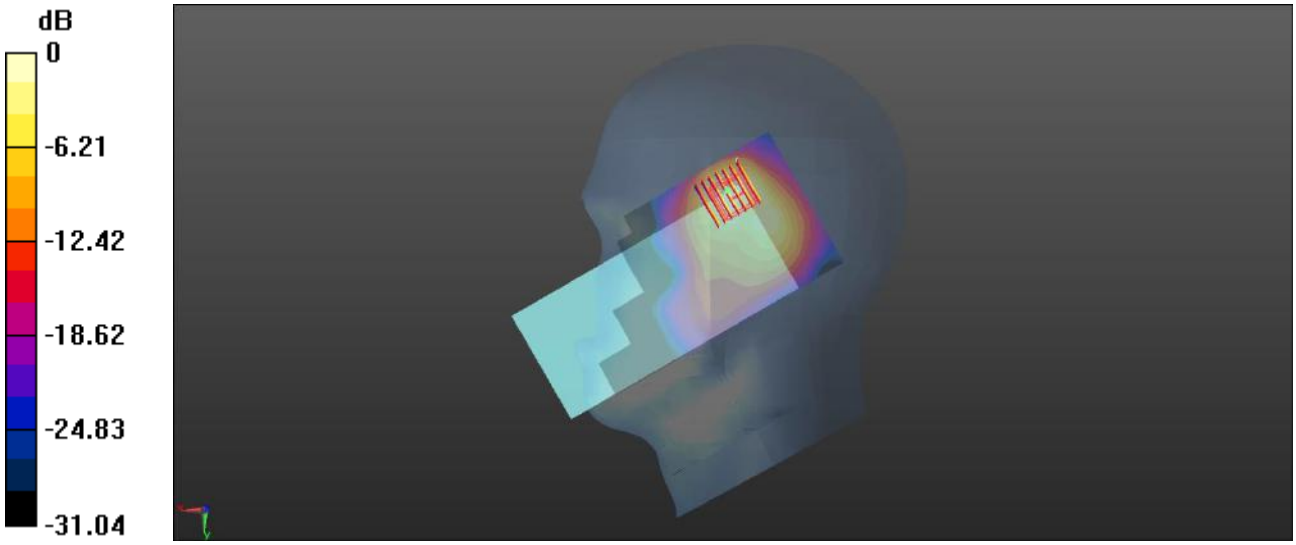
Ch38099+37901/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.71 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.670 W/kg; SAR(10 g) = 0.304 W/kg

Maximum value of SAR (measured) = 0.749 W/kg



0 dB = 0.749 W/kg

Meas.52 Body Plane with Top Edge 10mm on PCC38099+SCC37901 Channel in LTE Band38 mode with Antenna 4

Date: 2021.12.13

Communication System Band: Band 38; Frequency: 2604.9 MHz;Duty Cycle: 1:1.58

Medium parameters used (interpolated): f = 2604.9 MHz; σ = 1.979 S/m; ε_r = 38.343; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.49, 7.49, 7.49); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch38099+37901/Area Scan (71x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.387 W/kg

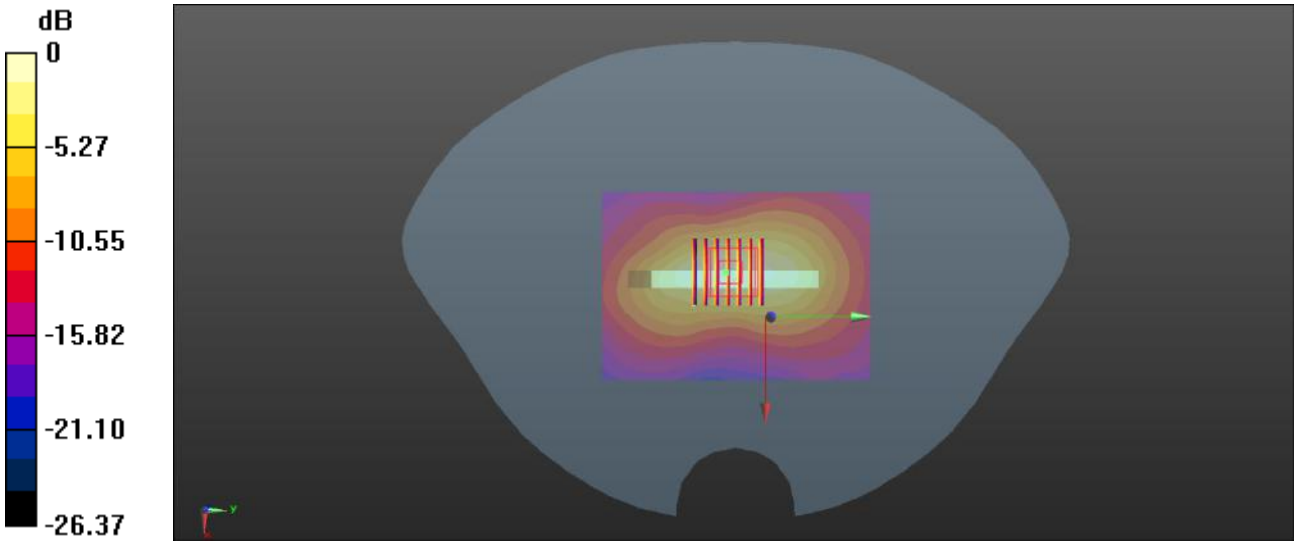
Ch38099+37901/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.66 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.677 W/kg

SAR(1 g) = 0.346 W/kg; SAR(10 g) = 0.168 W/kg

Maximum value of SAR (measured) = 0.393 W/kg



0 dB = 0.393 W/kg

Meas.53 Right Head with Cheek on PCC40620+SCC40818 **Channel in LTE B41 mode with Antenna 4**

Date: 2021.12.14

Communication System Band: Band 41; Frequency: 2680 MHz;Duty Cycle: 1:1.58

Medium parameters used (interpolated): f = 2680 MHz; σ = 2.071 S/m; ε_r = 37.932; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.6 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.49, 7.49, 7.49); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch40620+40818/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.899 W/kg

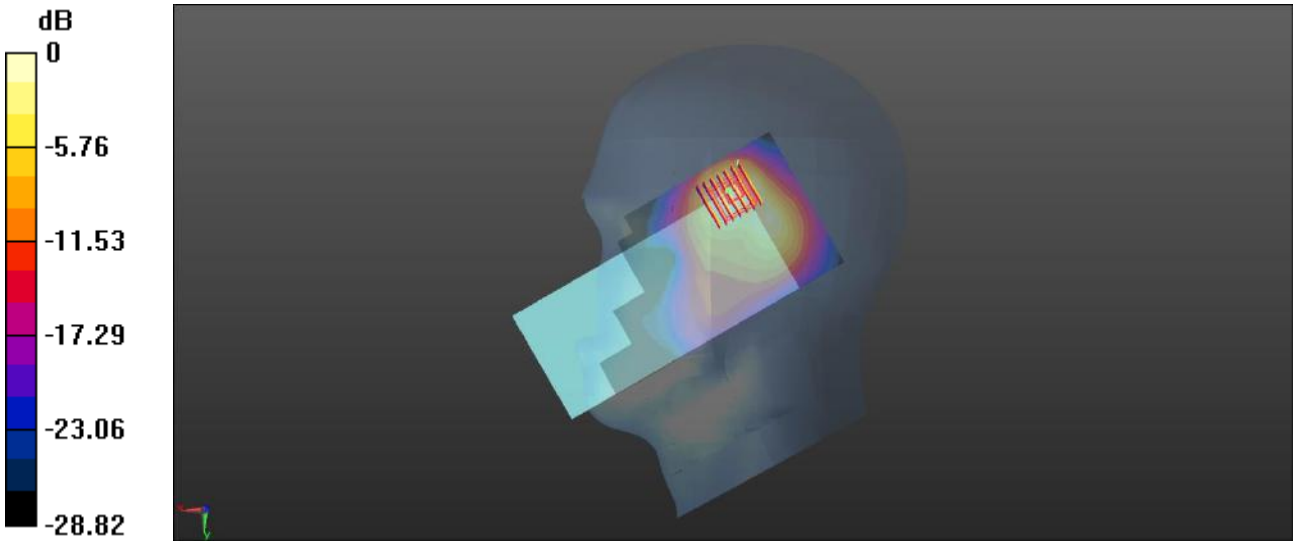
Ch40620+40818/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.35 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 0.765 W/kg; SAR(10 g) = 0.355 W/kg

Maximum value of SAR (measured) = 0.845 W/kg



0 dB = 0.845 W/kg

Meas.54 Body Plane with Top Edge 10mm on PCC41490+SCC41292 **Channel in LTE Band41 mode with Antenna 4**

Date: 2021.12.14

Communication System Band: Band 41; Frequency: 2680 MHz;Duty Cycle: 1:1.58

Medium parameters used (interpolated): f = 2680 MHz; σ = 2.071 S/m; ε_r = 37.932; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(7.49, 7.49, 7.49); Calibrated: 2021.08.12;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2021.11.05
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CC; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch41490+41292/Area Scan (71x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.410 W/kg

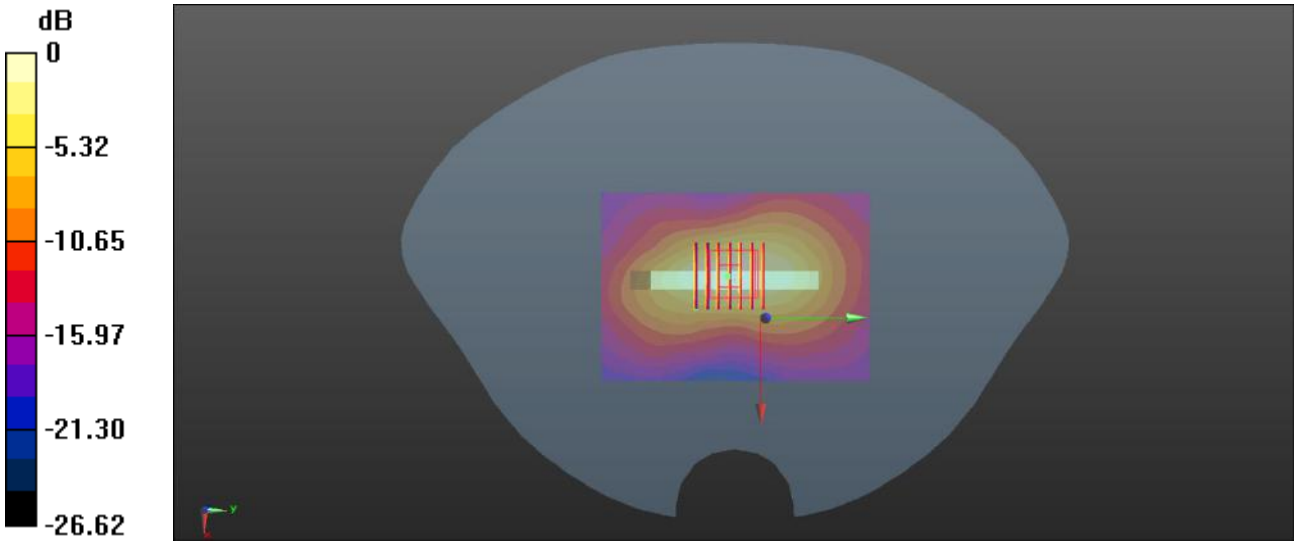
Ch41490+41292/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.15 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.719 W/kg

SAR(1 g) = 0.367 W/kg; SAR(10 g) = 0.178 W/kg

Maximum value of SAR (measured) = 0.417 W/kg



0 dB = 0.417 W/kg

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ21B0947-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “BL-SZ21B0947-AS.pdf”.

ANNEX F CALIBRATION REPORT

ANNEX G Please refer the document “CALIBRATION REPORT.pdf”.

--END OF REPORT--