

# SAR

## TEST REPORT

ISSUED BY  
Shenzhen BALUN Technology Co., Ltd.



FOR  
**Mobile Phone**

ISSUED TO  
Realme Chongqing Mobile Telecommunications Corp., Ltd.

No.178 Yulong Avenue, Yufengshan, Yubei District,  
Chongqing, China



Tested by: Miao Yan.

Miao Yan

Date Feb. 22, 2022

Approved by: Wei Yanquan.

Wei Yanquan  
(Chief Engineer)

Date Feb. 22, 2022

Report No.: BL-SZ2210045-701

EUT Name: Mobile Phone

Model Name: RMX3474

Brand Name: realme

FCC ID: 2AUYFRMX3474

Test Standard: FCC 47 CFR Part 2.1093  
(refer section 3.1)

Maximum SAR: Head (1 g): 1.19 W/kg

Body (1 g): 0.45 W/kg

Hotspot (1 g): 0.88 W/kg

Specific (10 g): 2.00 W/kg

Test Conclusion: Pass

Test Date: Nov. 15, 2021 ~ Feb. 14, 2022

Date of Issue: Feb. 22, 2022

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### Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>Feb. 22, 2022</u>	<u>Initial Issue</u>

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# 1 GENERAL INFORMATION

## 1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 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°C to 23°C
Ambient Relative Humidity	32% to 49%
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	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

### 2.2 Manufacturer Information

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

### 2.3 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	RMX3474
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	11
Software Version	realme UI V3.0
Dimensions (Approx.)	164.3*75.6*8.5mm
Weight (Approx.)	192g (with battery)
EUT ID	S01, S02
IMEI Number	S01: 864354060019551 S02: 864354060019541

Note1: EUT ID is used to identify the test sample in the lab internally.

Note2: It is performed to test SAR with the EUT S01 and conducted power with the EUT S02.

## 2.5 Ancillary Equipment

Ancillary Equipment 1	Li-Polymer Battery 1	
	Brand Name	realme
	Model No.	BLP909
	Serial No.	N/A
	Capacitance	Rated: 4890mAh/18.92Wh Typical: 5000mAh/19.35Wh
	Rated Voltage	3.87V
	Limited Voltage	4.45V
	Manufacturer	Sunwoda Electronic CO., LTD.
Ancillary Equipment 2	Li-Polymer Battery (alternative) 2	
	Brand Name	realme
	Model No.	BLP909
	Serial No.	N/A
	Capacitance	Rated: 4890mAh/18.92Wh Typical: 5000mAh/19.35Wh
	Rated Voltage	3.87V
	Limited Voltage	4.45V
	Manufacturer	TWS Technology (Guangzhou) Limited
Ancillary Equipment 3	Headset	
	Model No.	MH156
	Length (Approx.)	1.2 m
<p>Note: The EUT has two Batterys, they are same with electrical parameters, but only differ in Manufacturer and battery cell. By comparing the test data of three Batteries, battery 1 can produce a more conservative SAR values. The battery of the Manufacturer is Sunwoda Electronic CO., LTD. as the main for test in this report.</p>		

## 2.6 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/1900 MHz 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network FDD LTE Band 2/4/5/7/12/13/17/26/66 TDD LTE Band 38/41 LTE CA Uplink (UL): CA_7C, CA_38C, CA_41C 5G Network SA: NR n5/n7/n38/n41/n66 NSA: DC_2A_n7A, DC_5A_n7A, DC_5A_n66A, DC_7A_n5A, DC_7A_n66A, DC_12A_n66A, DC_26A_n41A, DC_66A_n5A, DC_66A_n7A Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80) U-NII-1/2A/2C/3, NFC, GPS, GLONASS, BDS, Galileo
Note: The EUT is a Mobile Phone, supporting dual SIM card slots under the same transceiver. Both SIM card slots support GSM, WCDMA, LTE and NR. And both SIM card slots share the same transceiver, so only SIM1 is tested in this report.	

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

Operating Mode	GSM, WCDMA, LTE, NR, 2.4G WLAN, 5G WLAN, Bluetooth		
Frequency Range	GSM 850	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	GSM 1900	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	WCDMA Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz
	LTE Band 12	TX: 699 ~ 716 MHz	RX: 729 ~ 746 MHz
	LTE Band 13	TX: 777 ~ 787 MHz	RX: 746 ~ 756 MHz
	LTE Band 17	TX: 704 ~ 716 MHz	RX: 734 ~ 746 MHz
	LTE Band 26	TX: 814 ~ 849 MHz	RX: 859 ~ 894 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2180MHz
	LTE Band 38	TX: 2570 ~ 2620 MHz	RX: 2570 ~ 2620 MHz
	LTE Band 41	TX: 2496 ~ 2690 MHz	RX: 2496 ~ 2690 MHz
	NR n5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	NR n7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz
	NR n38	TX: 2570 ~ 2620 MHz	RX: 2570 ~ 2620 MHz
	NR n41	TX: 2496 ~ 2690 MHz	RX: 2496 ~ 2690 MHz
NR n66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2180 MHz	
802.11b/g /n(HT20/HT40)	2412 ~ 2462 MHz		
802.11a/	5150 ~ 5250 MHz		



	/n(HT20/HT40)	5250 ~ 5350 MHz	
	/ac(VHT20/VHT40/	5470 ~ 5725 MHz	
	VHT80)	5725 ~ 5850 MHz	
	Bluetooth	2402 ~ 2480 MHz	
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna		
DTM	N/A		
Hotspot Function	Support		
Power Reduction	Support		
Exposure Category	General Population/Uncontrolled exposure		
EUT Stage	Portable Device		
Product	Type		
	<input checked="" type="checkbox"/> Production unit	<input type="checkbox"/> 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

Note: Compared with the EUT of test report BL-SZ21B0287-701, the EUT of this report replace the:

1. Change the model name into RMX3474.
2. Change the camera pixel.
3. Change the model and specification of the battery.
4. Change the charging circuit.
5. Change the specification of the power supply.
6. Change the color of the battery cover (only color differences, the materials and model are same to the original product).

Therefore, only added the worst case sport check test data in section 10.28/10.29/10.30 and ANNEX A/B/C., others test data please refer to report BL-SZ21B0287-701, which was issued by Shenzhen BALUN Technology Co., Ltd. on Feb. 15, 2022.

### 3.2 Device Category and SAR Limit

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

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

Table of Exposure Limits:

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

NOTE:

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

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

### 3.3 Test Result Summary

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

Band	Maximum Scaled SAR (W/kg)			Maximum Report SAR (W/kg)		
	Head	Body-worn Accessory	Hotspot	Head	Body-worn Accessory	Hotspot
GSM 850	0.87	0.14	0.32	1.19	0.45	0.88
GSM 1900	1.17	0.27	<b>0.88</b>			
WCDMA Band 2	1.04	0.22	0.62			
WCDMA Band 4	0.98	0.21	0.74			
WCDMA Band 5	0.73	0.16	0.32			
LTE Band 2	1.12	0.21	0.56			
LTE Band 4	1.11	0.17	0.59			
LTE Band 5	1.08	0.18	0.22			
LTE Band 7	0.88	0.25	0.82			
LTE Band 12	0.53	0.18	0.17			
LTE Band 13	0.65	0.24	0.25			
LTE Band 17	0.56	0.17	0.17			
LTE Band 26	0.75	0.18	0.21			
LTE Band 66	1.04	0.16	0.72			
LTE Band 38	0.94	0.24	0.48			
LTE Band 41	1.07	0.20	0.82			
CA_7C	0.86	0.22	0.74			
CA_38C	0.56	0.15	0.29			
CA_41C	0.64	0.13	0.46			
NR n5	0.46	0.11	0.20			
NR n7	1.03	0.24	0.56			
NR n38	0.90	0.31	0.88			
NR n41	<b>1.19</b>	0.28	0.64			
NR n66	1.10	0.22	0.66			
2.4G WLAN	1.12	0.09	0.35			
5.2G WLAN	/	/	0.31			
5.3G WLAN	0.74	0.25	/			
5.6G WLAN	0.66	<b>0.45</b>	/			
5.8G WLAN	1.19	0.26	0.73			
Bluetooth	0.42	0.03	0.11			
Limit (W/kg)	1.6			1.6		
Verdict	PASS					

## 3.3.2 Highest Specific SAR (10 g Value)

Band	Maximum Scaled SAR (W/kg)	Maximum Report SAR (W/kg)
	Specific 10g	
WCDMA Band 2	1.57	<b>2.00</b>
WCDMA Band 4	1.83	
LTE Band 7	1.79	
CA_7C	1.75	
LTE Band 38	1.60	
CA_38C	1.11	
LTE Band 41	1.72	
CA_41C	1.12	
n7	1.21	
n38	1.50	
n41	<b>2.00</b>	
n66	1.50	
5.3G WLAN	0.59	
5.6G WLAN	1.25	
Limit (W/kg)	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 1.98 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 2.00 W/kg, which is lower than 3.75 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

## 4 MEASUREMENT SYSTEM

### 4.1 Specific Absorption Rate (SAR) Definition

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

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

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

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

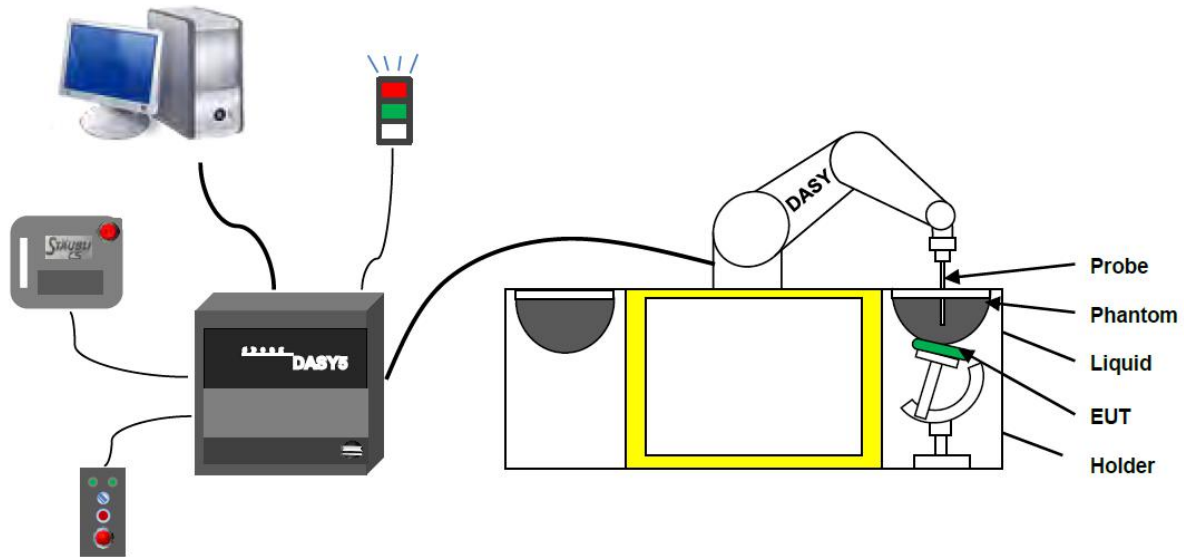
$$\mathbf{SAR} = \frac{\sigma E^2}{\rho}$$

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

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

## 4.2 DASY SAR System

### 4.2.1 DASY SAR System Diagram



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

1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
4. A unit to operate the optical surface detector which is connected to the EOC.
5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASYS5 measurement server.
6. The DASYS5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
7. DASYS5 software and SEMCAD data evaluation software.
8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
10. The device holder for handheld mobile phones.
11. Tissue simulating liquid mixed according to the given recipes.
12. System validation dipoles allowing to validate the proper functioning of the system.



#### 4.2.2 Robot

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

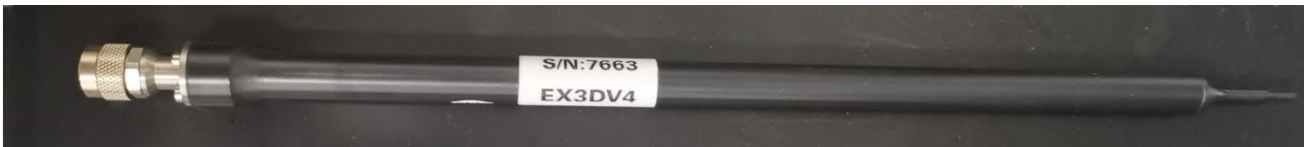


- High precision  
(repeatability  $\pm 0.02$  mm)
- High reliability  
(industrial design)
- Low maintenance costs  
(virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements  
(brush less synchron motors; no stepper motors)
- Low ELF interference  
(motor control fields 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:7663 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., glycoether)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to 6 GHz; Linearity: $\pm 0.2$ dB (30 MHz to 6 GHz)
Directivity	$\pm 0.2$ dB in HSL (rotation around probe axis) ; $\pm 0.4$ dB in HSL (rotation normal to probe axis)
Dynamic range	5 $\mu$ W/g to > 100 mW/g; Linearity: $\pm 0.2$ dB
Dimensions	Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 10 mm) Distance from probe tip to dipole centers: 1.0 mm
Application	General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms (EX3DV4)



#### E-Field Probe Calibration Process

Probe calibration is realized, in compliance with CENELEC EN 62209-1/-2 and IEEE 1528 std, with CALISAR, Antenna 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

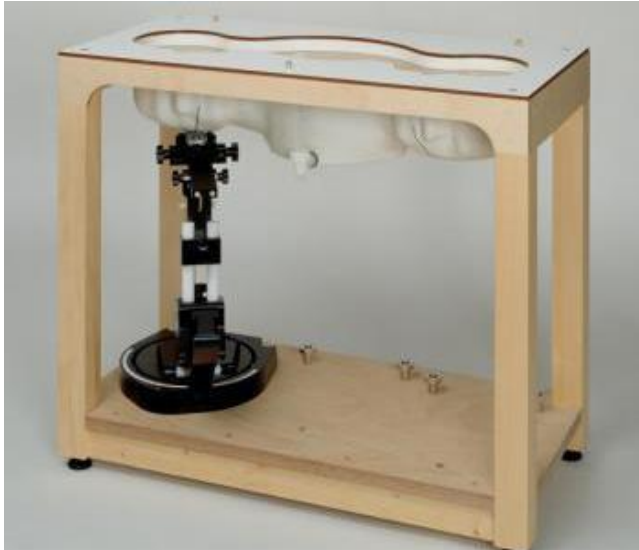
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an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



- Input Impedance: 200M $\Omega$ m
- 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

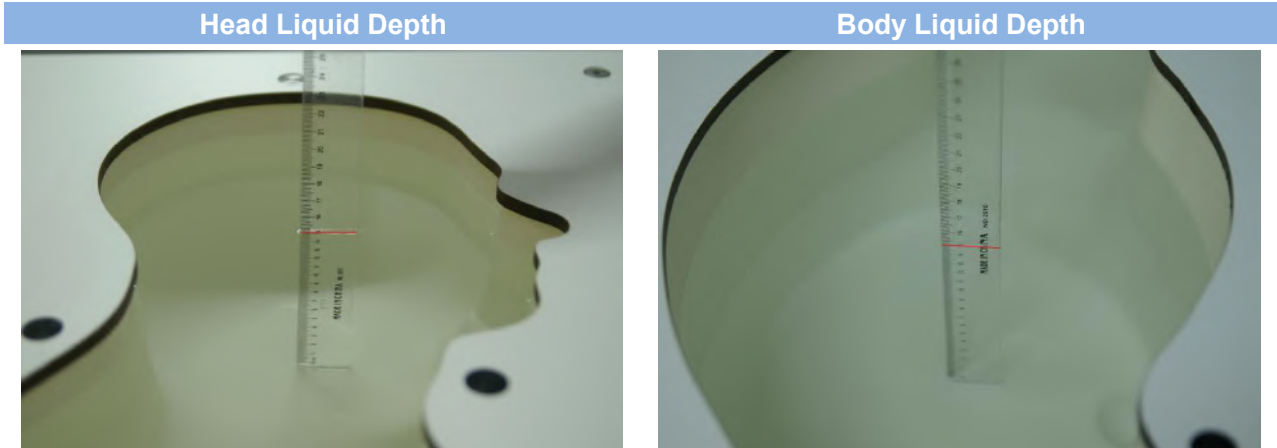
The DASY5 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of  $65^\circ$ . The bottom plate contains three pair of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



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

### 4.2.7 Simulating Liquid

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



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

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

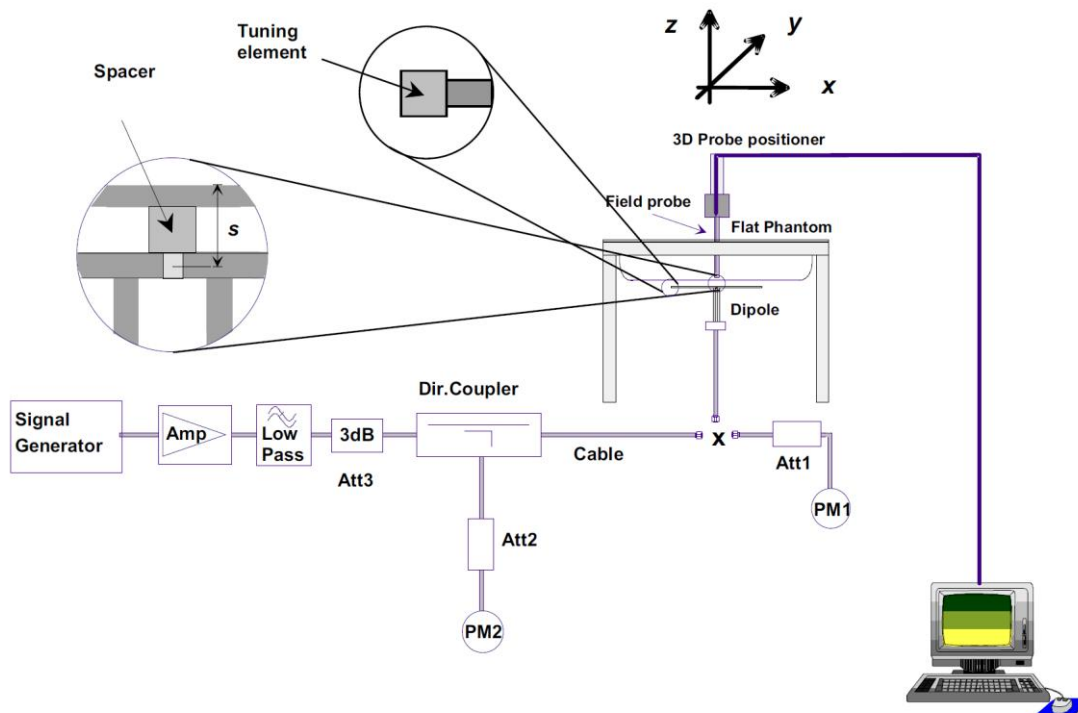
## 5 SYSTEM VERIFICATION

### 5.1 Purpose of System Check

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

### 5.2 System Check Setup

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



## 6 TEST POSITION CONFIGURATIONS

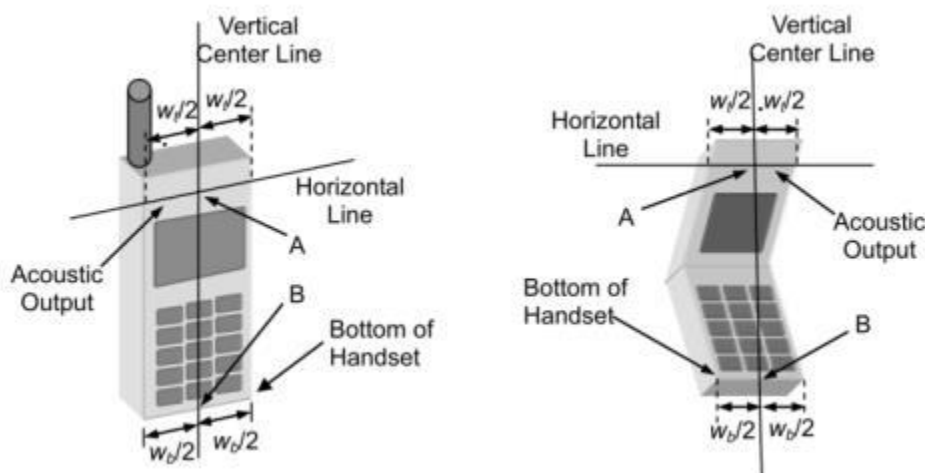
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

### 6.1 Head Exposure Conditions

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

#### 6.1.1 Two Imaginary Lines on the Handset

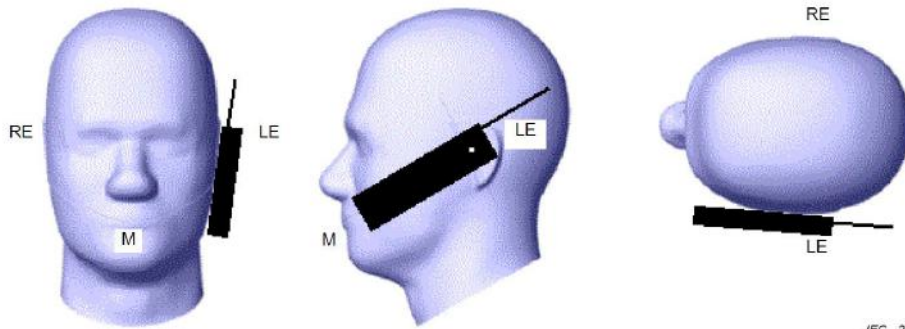
- The vertical center line passes through two points on the front side of the handset - the midpoint of the width  $w_t$  of the handset at the level of the acoustic output, and the midpoint of the width  $w_b$  of the bottom of the handset.
- The horizontal line is perpendicular to the vertical centerline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



#### 6.1.2 Cheek Position

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





IEC 226/05

### 6.1.3 Tilted Position

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

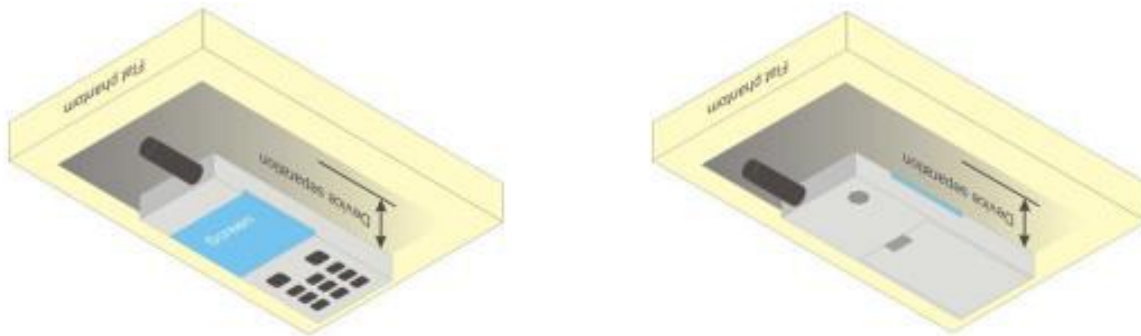


## 6.2 Body-worn Position Conditions

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

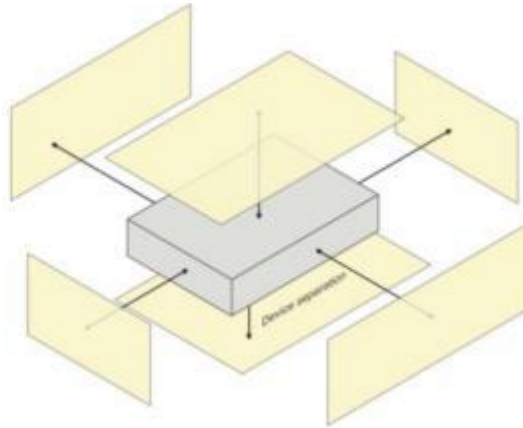
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.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

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



### 6.3 Hotspot Mode Exposure Position Conditions

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



### 6.4 Product Specific 10g Exposure Consideration

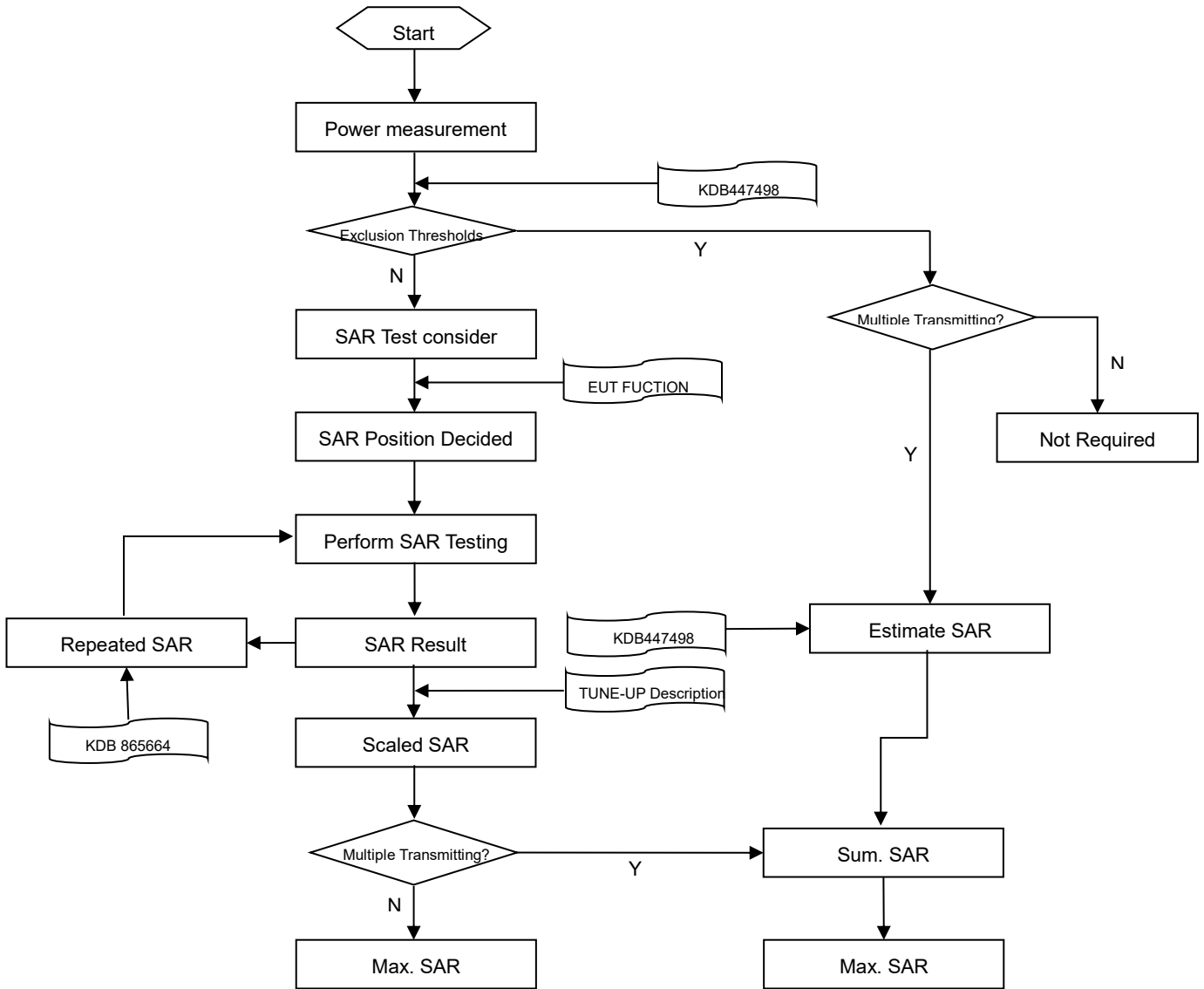
According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed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

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

6  
6.

## 7 MEASUREMENT PROCEDURE

### 7.1 Measurement Process Diagram



## 7.2 SAR Scan General Requirement

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

		≤3GHz	>3GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5±1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location		30°±1°	20°±1°
Maximum area scan spatial resolution: $\Delta x$ Area , $\Delta y$ Area		≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3–4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: $\Delta x$ Zoom , $\Delta y$ Zoom		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3–4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z$ Zoom (n)	≤ 5 mm	3–4 GHz: ≤ 4 mm
			4–5 GHz: ≤ 3 mm
			5–6 GHz: ≤ 2 mm
	graded grid	$\Delta z$ Zoom (1): between 1st two points closest to phantom surface  $\Delta z$ Zoom (n>1): between subsequent points	≤ 4 mm
4–5 GHz: ≤ 2.5 mm			
		≤ 1.5· $\Delta z$ Zoom (n-1)	
Minimum zoom scan volume	x, y, z	≥30 mm	3–4 GHz: ≥ 28 mm
			4–5 GHz: ≥ 25 mm
			5–6 GHz: ≥ 22 mm
<b>Note:</b> 1. $\delta$ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details. 2. * When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.			

### 7.3 Measurement Procedure

The following steps are used for each test position

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

### 7.4 Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r04 quoted below.

When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

## 8 CONDUCTED RF OUPUT POWER

### 8.1 GSM

Please refer the document "Conducted RF Output Power List.pdf".

### 8.2 WCDMA

Please refer the document "Conducted RF Output Power List.pdf".

### 8.3 LTE

Please refer the document "Conducted RF Output Power List.pdf".

### 8.4 Intra-Band Uplink CA Normal Power

Note:

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

Please refer the document "Conducted RF Output Power List.pdf".

## 8.5 WIFI

### 8.5.1 2.4G WIFI Level1

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	16.44	17.00	Yes
		6	2437	16.92	17.00	Yes
		11	2462	<b>16.98</b>	17.00	Yes
	802.11g	1	2412	15.73	16.00	No
		6	2437	15.64	16.00	No
		11	2462	15.63	16.00	No
	802.11n(HT20)	1	2412	15.74	16.00	No
		6	2437	15.82	16.00	No
		11	2462	15.75	16.00	No
	802.11n(HT40)	3	2422	15.65	16.00	No
		6	2437	15.75	16.00	No
		9	2452	15.68	16.00	No

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

- 1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.
- 2) When multiple transmission modes (802.11b/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  $\leq 1.2$  W/kg, OFDM SAR test is not required.  
Adjusted SAR =  $1.122 * (39.81\text{mW}/50.12\text{mW}) = 0.891$  W/Kg, so 2.4G OFDM SAR test is not required.

### 8.5.2 2.4G WIFI Level2

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	10.23	11.00	Yes
		6	2437	<b>10.83</b>	11.00	Yes
		11	2462	10.31	11.00	Yes
	802.11g	1	2412	9.66	10.00	No
		6	2437	9.81	10.00	No
		11	2462	9.69	10.00	No
	802.11n(HT20)	1	2412	9.74	10.00	No
		6	2437	9.79	10.00	No
		11	2462	9.79	10.00	No
	802.11n(HT40)	3	2422	9.80	10.00	No
		6	2437	9.81	10.00	No



		9	2452	9.70	10.00	No
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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  $\leq 1.2$  W/kg, OFDM SAR test is not required.  
Adjusted SAR =  $1.122 * (10.00\text{mW}/12.59\text{mW}) = 0.891$ , so 2.4G OFDM SAR test is not required.

### 8.5.3 2.4G WIFI Level3

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	11.38	12.00	Yes
		6	2437	11.68	12.00	Yes
		11	2462	<b>11.86</b>	12.00	Yes
	802.11g	1	2412	10.76	11.00	No
		6	2437	10.68	11.00	No
		11	2462	10.67	11.00	No
	802.11n(HT20)	1	2412	10.73	11.00	No
		6	2437	10.72	11.00	No
		11	2462	10.63	11.00	No
	802.11n(HT40)	3	2422	10.73	11.00	No
		6	2437	10.77	11.00	No
		9	2452	10.72	11.00	No

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

- 1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.
- 2) When multiple transmission modes (802.11b/g/n) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n.
- 3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg, OFDM SAR test is not required.  
Adjusted SAR =  $1.122 * (12.59\text{mW}/15.85\text{mW}) = 0.891$ , so 2.4G OFDM SAR test is not required.

### 8.5.4 2.4G WIFI Level4

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	10.23	11.00	Yes
		6	2437	<b>10.83</b>	11.00	Yes

		11	2462	10.31	11.00	Yes
	802.11g	1	2412	9.66	10.00	No
		6	2437	9.81	10.00	No
		11	2462	9.69	10.00	No
	802.11n(HT20)	1	2412	9.74	10.00	No
		6	2437	9.79	10.00	No
		11	2462	9.79	10.00	No
	802.11n(HT40)	3	2422	9.80	10.00	No
		6	2437	9.81	10.00	No
		9	2452	9.70	10.00	No

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

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

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

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg, OFDM SAR test is not required.

Adjusted SAR =  $1.122 * (10.00\text{mW}/12.59\text{mW}) = 0.891$ , so 2.4G OFDM SAR test is not required.

### 8.5.5 2.4G WIFI Level5

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	19.39	20.00	Yes
		6	2437	<b>19.86</b>	20.00	Yes
		11	2462	19.82	20.00	Yes
	802.11g	1	2412	18.68	19.00	No
		6	2437	18.82	19.00	No
		11	2462	18.78	19.00	No
	802.11n(HT20)	1	2412	18.66	19.00	No
		6	2437	18.81	19.00	No
		11	2462	18.81	19.00	No
	802.11n(HT40)	3	2422	18.62	19.00	No
		6	2437	18.65	19.00	No
		9	2452	18.82	19.00	No

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

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

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

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg, OFDM SAR test is not required.  
 Adjusted SAR =  $1.122 * (79.43\text{mW}/100.00\text{mW}) = 0.891$ , so 2.4G OFDM SAR test is not required.

### 8.5.6 2.4G WIFI Level6

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	17.72	18.00	Yes
		6	2437	<b>17.81</b>	18.00	Yes
		11	2462	17.65	18.00	Yes
	802.11g	1	2412	16.79	17.00	No
		6	2437	16.76	17.00	No
		11	2462	16.62	17.00	No
	802.11n(HT20)	1	2412	16.78	17.00	No
		6	2437	16.69	17.00	No
		11	2462	16.62	17.00	No
	802.11n(HT40)	3	2422	16.70	17.00	No
		6	2437	16.68	17.00	No
		9	2452	16.75	17.00	No

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

- 1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.
- 2) When multiple transmission modes (802.11b/g/n) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n.
- 3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg, OFDM SAR test is not required.  
 Adjusted SAR =  $1.122 * (50.12\text{mW}/63.10\text{mW}) = 0.891$ , so 2.4G OFDM SAR test is not required.

## 8.5.7 2.4G WIFI Level7

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	16.44	17.00	Yes
		6	2437	16.92	17.00	Yes
		11	2462	<b>16.98</b>	17.00	Yes
	802.11g	1	2412	15.73	16.00	No
		6	2437	15.64	16.00	No
		11	2462	15.63	16.00	No
	802.11n(HT20)	1	2412	15.74	16.00	No
		6	2437	15.82	16.00	No
		11	2462	15.75	16.00	No
	802.11n(HT40)	3	2422	15.65	16.00	No
		6	2437	15.75	16.00	No
		9	2452	15.68	16.00	No

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

- 1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.
- 2) When multiple transmission modes (802.11b/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  $\leq 1.2$  W/kg, OFDM SAR test is not required.  
Adjusted SAR =  $1.122 * (39.81\text{mW}/50.12\text{mW}) = 0.891$ , so 2.4G OFDM SAR test is not required.

## 8.5.8 2.4G WIFI Level8

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	15.70	16.00	Yes
		6	2437	<b>15.75</b>	16.00	Yes
		11	2462	15.68	16.00	Yes
	802.11g	1	2412	14.81	15.00	No
		6	2437	14.78	15.00	No
		11	2462	14.82	15.00	No
	802.11n(HT20)	1	2412	14.66	15.00	No
		6	2437	14.81	15.00	No
		11	2462	14.80	15.00	No
	802.11n(HT40)	3	2422	14.63	15.00	No
		6	2437	14.68	15.00	No
		9	2452	14.71	15.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power,

the test configuration is determined by applying the following steps sequentially.

- 1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.
- 2) When multiple transmission modes (802.11b/g/n) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n.
- 3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg, OFDM SAR test is not required.  
Adjusted SAR =  $1.122 * (31.62\text{mW}/39.81\text{mW}) = 0.891$ , so 2.4G OFDM SAR test is not required.

### 8.5.9 5G WIFI Level1

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	13.22	13.50	No
		44	5220	13.23	13.50	No
		48	5240	13.22	13.50	No
	802.11n(HT20)	36	5180	13.22	13.50	No
		44	5220	13.25	13.50	No
		48	5240	13.31	13.50	No
	802.11n(HT40)	38	5190	13.30	13.50	No
		46	5230	13.15	13.50	No
	802.11ac(VHT20)	36	5180	13.23	13.50	No
		44	5220	13.16	13.50	No
		48	5240	13.18	13.50	No
	802.11ac(VHT40)	38	5190	13.28	13.50	No
		46	5230	13.24	13.50	No
	802.11ac(VHT80)	42	5210	12.62	13.50	No
	5.3 (5.25~5.35)	802.11a	52	5260	13.21	13.50
60			5300	13.29	13.50	No
64			5320	13.27	13.50	No
802.11n(HT20)		52	5260	13.32	13.50	No
		60	5300	13.16	13.50	No
		64	5320	13.28	13.50	No
802.11n(HT40)		54	5270	13.30	13.50	No
		62	5310	13.23	13.50	No
802.11ac(VHT20)		52	5260	13.15	13.50	No
		60	5300	13.25	13.50	No
		64	5320	13.31	13.50	No
802.11ac(VHT40)		54	5270	13.19	13.50	No
		62	5310	13.14	13.50	No
802.11ac(VHT80)		58	5290	<b>12.96</b>	13.50	Yes
5.6		802.11a	100	5500	13.27	13.50

(5.47~5.725)		116	5580	13.25	13.50	No
		140	5700	13.20	13.50	No
	802.11n(HT20)	100	5500	13.15	13.50	No
		116	5580	13.27	13.50	No
		140	5700	13.17	13.50	No
	802.11n(HT40)	102	5510	13.24	13.50	No
		118	5590	13.20	13.50	No
		134	5670	13.20	13.50	No
	802.11ac(VHT20)	100	5500	13.32	13.50	No
		116	5580	13.15	13.50	No
		140	5700	13.14	13.50	No
	802.11ac(VHT40)	102	5510	13.23	13.50	No
		118	5590	13.25	13.50	No
		134	5670	13.22	13.50	No
	802.11ac(VHT80)	106	5530	13.10	13.50	Yes
		122	5610	<b>13.40</b>	13.50	Yes
		138	5690	13.40	13.50	Yes
	5.8 (5.725~5.850)	802.11a	149	5745	13.24	13.50
157			5785	13.14	13.50	No
165			5825	13.31	13.50	No
802.11n(HT20)		149	5745	13.32	13.50	No
		157	5785	13.23	13.50	No
		165	5825	13.17	13.50	No
802.11n(HT40)		151	5755	13.18	13.50	No
		159	5795	13.25	13.50	No
802.11ac(VHT20)		149	5745	13.29	13.50	No
		157	5785	13.17	13.50	No
		165	5825	13.30	13.50	No
802.11ac(VHT40)		151	5755	13.12	13.50	No
		159	5795	13.25	13.50	No
802.11ac(VHT80)		155	5775	<b>13.42</b>	13.50	Yes

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

### 8.5.10 5G WIFI Level2

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	10.23	10.50	No
		44	5220	10.26	10.50	No

		48	5240	10.28	10.50	No	
	802.11n(HT20)	36	5180	10.25	10.50	No	
		44	5220	10.27	10.50	No	
		48	5240	10.27	10.50	No	
	802.11n(HT40)	38	5190	10.24	10.50	No	
		46	5230	10.28	10.50	No	
	802.11ac(VHT20)	36	5180	10.25	10.50	No	
		44	5220	10.29	10.50	No	
		48	5240	10.29	10.50	No	
	802.11ac(VHT40)	38	5190	10.13	10.50	No	
		46	5230	10.19	10.50	No	
	802.11ac(VHT80)	42	5210	10.22	10.50	No	
5.3 (5.25~5.35)	802.11a	52	5260	10.29	10.50	No	
		60	5300	10.26	10.50	No	
		64	5320	10.24	10.50	No	
	802.11n(HT20)	52	5260	10.14	10.50	No	
		60	5300	10.16	10.50	No	
		64	5320	10.18	10.50	No	
	802.11n(HT40)	54	5270	10.27	10.50	No	
		62	5310	10.15	10.50	No	
	802.11ac(VHT20)	52	5260	10.16	10.50	No	
		60	5300	10.32	10.50	No	
		64	5320	10.17	10.50	No	
	802.11ac(VHT40)	54	5270	10.32	10.50	No	
		62	5310	10.20	10.50	No	
	802.11ac(VHT80)	58	5290	<b>10.36</b>	10.50	Yes	
	5.6 (5.47~5.725)	802.11a	100	5500	10.26	10.50	No
			116	5580	10.27	10.50	No
			140	5700	10.13	10.50	No
		802.11n(HT20)	100	5500	10.17	10.50	No
116			5580	10.12	10.50	No	
140			5700	10.31	10.50	No	
802.11n(HT40)		102	5510	10.30	10.50	No	
		118	5590	10.30	10.50	No	
		134	5670	10.31	10.50	No	
802.11ac(VHT20)		100	5500	10.31	10.50	No	
		116	5580	10.30	10.50	No	
		140	5700	10.23	10.50	No	
802.11ac(VHT40)		102	5510	10.23	10.50	No	
		118	5590	10.26	10.50	No	
		134	5670	10.14	10.50	No	

	802.11ac(VHT80)	106	5530	10.14	10.50	Yes
		122	5610	10.22	10.50	Yes
		138	5690	<b>10.27</b>	10.50	Yes
5.8 (5.725~5.850)	802.11a	149	5745	10.32	10.50	No
		157	5785	10.27	10.50	No
		165	5825	10.19	10.50	No
	802.11n(HT20)	149	5745	10.26	10.50	No
		157	5785	10.26	10.50	No
		165	5825	10.31	10.50	No
	802.11n(HT40)	151	5755	10.32	10.50	No
		159	5795	10.14	10.50	No
	802.11ac(VHT20)	149	5745	10.23	10.50	No
		157	5785	10.29	10.50	No
		165	5825	10.16	10.50	No
	802.11ac(VHT40)	151	5755	10.14	10.50	No
		159	5795	10.13	10.50	No
	802.11ac(VHT80)	155	5775	<b>10.36</b>	10.50	Yes

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

### 8.5.11 5G WIFI Level3

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	11.28	11.50	No
		44	5220	11.23	11.50	No
		48	5240	11.29	11.50	No
	802.11n(HT20)	36	5180	11.30	11.50	No
		44	5220	11.27	11.50	No
		48	5240	11.31	11.50	No
	802.11n(HT40)	38	5190	11.29	11.50	No
		46	5230	11.26	11.50	No
	802.11ac(VHT20)	36	5180	11.19	11.50	No
		44	5220	11.19	11.50	No
		48	5240	11.17	11.50	No
	802.11ac(VHT40)	38	5190	11.27	11.50	No
		46	5230	11.24	11.50	No
	802.11ac(VHT80)	42	5210	11.03	11.50	No
	5.3 (5.25~5.35)	802.11a	52	5260	11.25	11.50
60			5300	11.20	11.50	No
64			5320	11.32	11.50	No



	802.11n(HT20)	52	5260	11.30	11.50	No	
		60	5300	11.25	11.50	No	
		64	5320	11.13	11.50	No	
	802.11n(HT40)	54	5270	11.27	11.50	No	
		62	5310	11.31	11.50	No	
	802.11ac(VHT20)	52	5260	11.13	11.50	No	
		60	5300	11.20	11.50	No	
		64	5320	11.14	11.50	No	
	802.11ac(VHT40)	54	5270	11.19	11.50	No	
		62	5310	11.26	11.50	No	
802.11ac(VHT80)	58	5290	<b>11.19</b>	11.50	Yes		
5.6 (5.47~5.725)	802.11a	100	5500	9.30	9.50	No	
		116	5580	9.31	9.50	No	
		140	5700	9.12	9.50	No	
	802.11n(HT20)	100	5500	9.17	9.50	No	
		116	5580	9.22	9.50	No	
		140	5700	9.30	9.50	No	
	802.11n(HT40)	102	5510	9.13	9.50	No	
		118	5590	9.31	9.50	No	
		134	5670	9.19	9.50	No	
	802.11ac(VHT20)	100	5500	9.31	9.50	No	
		116	5580	9.18	9.50	No	
		140	5700	9.32	9.50	No	
	802.11ac(VHT40)	102	5510	9.23	9.50	No	
		118	5590	9.29	9.50	No	
		134	5670	9.16	9.50	No	
	802.11ac(VHT80)	106	5530	9.32	9.50	Yes	
		122	5610	9.37	9.50	Yes	
		138	5690	<b>9.38</b>	9.50	Yes	
	5.8 (5.725~5.850)	802.11a	149	5745	9.24	9.50	No
			157	5785	9.23	9.50	No
			165	5825	9.13	9.50	No
802.11n(HT20)		149	5745	9.20	9.50	No	
		157	5785	9.30	9.50	No	
		165	5825	9.17	9.50	No	
802.11n(HT40)		151	5755	9.14	9.50	No	
		159	5795	9.28	9.50	No	
802.11ac(VHT20)		149	5745	9.12	9.50	No	
		157	5785	9.16	9.50	No	
		165	5825	9.24	9.50	No	
802.11ac(VHT40)		151	5755	9.22	9.50	No	

		159	5795	9.13	9.50	No
	802.11ac(VHT80)	155	5775	<b>9.26</b>	9.50	Yes

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

### 8.5.12 5G WIFI Level4

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	11.28	11.50	No
		44	5220	11.23	11.50	No
		48	5240	11.29	11.50	No
	802.11n(HT20)	36	5180	11.30	11.50	No
		44	5220	11.27	11.50	No
		48	5240	11.31	11.50	No
	802.11n(HT40)	38	5190	11.29	11.50	No
		46	5230	11.26	11.50	No
	802.11ac(VHT20)	36	5180	11.19	11.50	No
		44	5220	11.19	11.50	No
		48	5240	11.17	11.50	No
	802.11ac(VHT40)	38	5190	11.27	11.50	No
46		5230	11.24	11.50	No	
802.11ac(VHT80)	42	5210	11.03	11.50	No	
5.3 (5.25~5.35)	802.11a	52	5260	11.25	11.50	No
		60	5300	11.20	11.50	No
		64	5320	11.32	11.50	No
	802.11n(HT20)	52	5260	11.30	11.50	No
		60	5300	11.25	11.50	No
		64	5320	11.13	11.50	No
	802.11n(HT40)	54	5270	11.27	11.50	No
		62	5310	11.31	11.50	No
	802.11ac(VHT20)	52	5260	11.13	11.50	No
		60	5300	11.20	11.50	No
		64	5320	11.14	11.50	No
	802.11ac(VHT40)	54	5270	11.19	11.50	No
		62	5310	11.26	11.50	No
	802.11ac(VHT80)	58	5290	<b>11.19</b>	11.50	Yes
	5.6 (5.47~5.725)	802.11a	100	5500	9.30	9.50
116			5580	9.31	9.50	No
140			5700	9.12	9.50	No
802.11n(HT20)		100	5500	9.17	9.50	No

		116	5580	9.22	9.50	No
		140	5700	9.30	9.50	No
		102	5510	9.13	9.50	No
	802.11n(HT40)	118	5590	9.31	9.50	No
		134	5670	9.19	9.50	No
	802.11ac(VHT20)	100	5500	9.31	9.50	No
		116	5580	9.18	9.50	No
		140	5700	9.32	9.50	No
	802.11ac(VHT40)	102	5510	9.23	9.50	No
		118	5590	9.29	9.50	No
		134	5670	9.16	9.50	No
	802.11ac(VHT80)	106	5530	9.32	9.50	Yes
		122	5610	9.37	9.50	Yes
		138	5690	<b>9.38</b>	9.50	Yes
	5.8 (5.725~5.850)	802.11a	149	5745	9.24	9.50
157			5785	9.23	9.50	No
165			5825	9.13	9.50	No
802.11n(HT20)		149	5745	9.20	9.50	No
		157	5785	9.30	9.50	No
		165	5825	9.17	9.50	No
802.11n(HT40)		151	5755	9.14	9.50	No
		159	5795	9.28	9.50	No
802.11ac(VHT20)		149	5745	9.12	9.50	No
		157	5785	9.16	9.50	No
		165	5825	9.24	9.50	No
802.11ac(VHT40)		151	5755	9.22	9.50	No
		159	5795	9.13	9.50	No
802.11ac(VHT80)		155	5775	<b>9.26</b>	9.50	Yes

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

### 8.5.13 5G WIFI Level5

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	18.77	19.00	No
		44	5220	18.77	19.00	No
		48	5240	18.68	19.00	No
	802.11n(HT20)	36	5180	18.68	19.00	No
		44	5220	18.81	19.00	No
		48	5240	18.63	19.00	No

	802.11n(HT40)	38	5190	18.71	19.00	No
		46	5230	18.63	19.00	No
	802.11ac(VHT20)	36	5180	18.78	19.00	No
		44	5220	18.69	19.00	No
		48	5240	18.62	19.00	No
	802.11ac(VHT40)	38	5190	18.79	19.00	No
		46	5230	18.69	19.00	No
802.11ac(VHT80)	42	5210	<b>18.27</b>	19.00	Yes	
5.3 (5.25~5.35)	802.11a	52	5260	18.80	19.00	No
		60	5300	18.68	19.00	No
		64	5320	18.79	19.00	No
	802.11n(HT20)	52	5260	18.77	19.00	No
		60	5300	18.71	19.00	No
		64	5320	18.81	19.00	No
	802.11n(HT40)	54	5270	18.71	19.00	No
		62	5310	18.78	19.00	No
	802.11ac(VHT20)	52	5260	18.67	19.00	No
		60	5300	18.63	19.00	No
		64	5320	18.78	19.00	No
	802.11ac(VHT40)	54	5270	18.72	19.00	No
		62	5310	18.75	19.00	No
	802.11ac(VHT80)	58	5290	<b>18.64</b>	19.00	Yes
	5.6 (5.47~5.725)	802.11a	100	5500	18.76	19.00
116			5580	18.65	19.00	No
140			5700	18.68	19.00	No
802.11n(HT20)		100	5500	18.73	19.00	No
		116	5580	18.63	19.00	No
		140	5700	18.77	19.00	No
802.11n(HT40)		102	5510	18.66	19.00	No
		118	5590	18.63	19.00	No
		134	5670	18.77	19.00	No
802.11ac(VHT20)		100	5500	18.65	19.00	No
		116	5580	18.71	19.00	No
		140	5700	18.77	19.00	No
802.11ac(VHT40)		102	5510	18.77	19.00	No
		118	5590	18.78	19.00	No
		134	5670	18.64	19.00	No
802.11ac(VHT80)		106	5530	18.78	19.00	Yes
		122	5610	18.69	19.00	Yes
		138	5690	<b>18.84</b>	19.00	Yes
5.8	802.11a	149	5745	18.78	19.00	No

(5.725~5.850)		157	5785	18.82	19.00	No
		165	5825	18.79	19.00	No
	802.11n(HT20)	149	5745	18.81	19.00	No
		157	5785	18.64	19.00	No
		165	5825	18.81	19.00	No
	802.11n(HT40)	151	5755	18.68	19.00	No
		159	5795	18.71	19.00	No
	802.11ac(VHT20)	149	5745	18.75	19.00	No
		157	5785	18.67	19.00	No
		165	5825	18.63	19.00	No
	802.11ac(VHT40)	151	5755	18.70	19.00	No
		159	5795	18.68	19.00	No
	802.11ac(VHT80)	155	5775	<b>18.73</b>	19.00	Yes

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

#### 8.5.14 5G WIFI Level6

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	16.23	16.50	No
		44	5220	16.24	16.50	No
		48	5240	16.21	16.50	No
	802.11n(HT20)	36	5180	16.18	16.50	No
		44	5220	16.31	16.50	No
		48	5240	16.23	16.50	No
	802.11n(HT40)	38	5190	16.32	16.50	No
		46	5230	16.29	16.50	No
	802.11ac(VHT20)	36	5180	16.13	16.50	No
		44	5220	16.21	16.50	No
		48	5240	16.28	16.50	No
	802.11ac(VHT40)	38	5190	16.30	16.50	No
		46	5230	16.22	16.50	No
	802.11ac(VHT80)	42	5210	<b>16.25</b>	16.50	Yes
	5.3 (5.25~5.35)	802.11a	52	5260	16.27	16.50
60			5300	16.30	16.50	No
64			5320	16.28	16.50	No
802.11n(HT20)		52	5260	16.12	16.50	No
		60	5300	16.25	16.50	No
		64	5320	16.32	16.50	No
802.11n(HT40)		54	5270	16.28	16.50	No

	802.11ac(VHT20)	62	5310	16.19	16.50	No	
		52	5260	16.13	16.50	No	
		60	5300	16.32	16.50	No	
		64	5320	16.25	16.50	No	
	802.11ac(VHT40)	54	5270	16.25	16.50	No	
		62	5310	16.32	16.50	No	
802.11ac(VHT80)	58	5290	<b>16.22</b>	16.50	Yes		
5.6 (5.47~5.725)	802.11a	100	5500	16.25	16.50	No	
		116	5580	16.12	16.50	No	
		140	5700	16.24	16.50	No	
	802.11n(HT20)	100	5500	16.24	16.50	No	
		116	5580	16.20	16.50	No	
		140	5700	16.30	16.50	No	
	802.11n(HT40)	102	5510	16.25	16.50	No	
		118	5590	16.25	16.50	No	
		134	5670	16.28	16.50	No	
	802.11ac(VHT20)	100	5500	16.32	16.50	No	
		116	5580	16.21	16.50	No	
		140	5700	16.31	16.50	No	
	802.11ac(VHT40)	102	5510	16.12	16.50	No	
		118	5590	16.19	16.50	No	
		134	5670	16.28	16.50	No	
	802.11ac(VHT80)	106	5530	16.12	16.50	Yes	
		122	5610	16.26	16.50	Yes	
		138	5690	<b>16.32</b>	16.50	Yes	
	5.8 (5.725~5.850)	802.11a	149	5745	15.28	15.50	No
			157	5785	15.27	15.50	No
			165	5825	15.32	15.50	No
802.11n(HT20)		149	5745	15.19	15.50	No	
		157	5785	15.26	15.50	No	
		165	5825	15.30	15.50	No	
802.11n(HT40)		151	5755	15.23	15.50	No	
		159	5795	15.20	15.50	No	
802.11ac(VHT20)		149	5745	15.19	15.50	No	
		157	5785	15.18	15.50	No	
		165	5825	15.20	15.50	No	
802.11ac(VHT40)		151	5755	15.22	15.50	No	
		159	5795	15.17	15.50	No	
802.11ac(VHT80)		155	5775	<b>15.43</b>	15.50	Yes	

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

## 8.5.15 5G WIFI Level7

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	15.21	15.50	No
		44	5220	15.28	15.50	No
		48	5240	15.19	15.50	No
	802.11n(HT20)	36	5180	15.14	15.50	No
		44	5220	15.29	15.50	No
		48	5240	15.18	15.50	No
	802.11n(HT40)	38	5190	15.15	15.50	No
		46	5230	15.23	15.50	No
	802.11ac(VHT20)	36	5180	15.19	15.50	No
		44	5220	15.27	15.50	No
		48	5240	15.16	15.50	No
	802.11ac(VHT40)	38	5190	15.22	15.50	No
46		5230	15.26	15.50	No	
802.11ac(VHT80)	42	5210	<b>15.20</b>	15.50	Yes	
5.3 (5.25~5.35)	802.11a	52	5260	15.31	15.50	No
		60	5300	15.31	15.50	No
		64	5320	15.22	15.50	No
	802.11n(HT20)	52	5260	15.24	15.50	No
		60	5300	15.13	15.50	No
		64	5320	15.22	15.50	No
	802.11n(HT40)	54	5270	15.29	15.50	No
		62	5310	15.16	15.50	No
	802.11ac(VHT20)	52	5260	15.19	15.50	No
		60	5300	15.17	15.50	No
		64	5320	15.26	15.50	No
	802.11ac(VHT40)	54	5270	15.23	15.50	No
62		5310	15.20	15.50	No	
802.11ac(VHT80)	58	5290	<b>15.14</b>	15.50	Yes	
5.6 (5.47~5.725)	802.11a	100	5500	11.13	11.50	No
		116	5580	11.15	11.50	No
		140	5700	11.32	11.50	No
	802.11n(HT20)	100	5500	11.21	11.50	No
		116	5580	11.18	11.50	No
		140	5700	11.31	11.50	No
	802.11n(HT40)	102	5510	11.27	11.50	No
		118	5590	11.28	11.50	No
		134	5670	11.31	11.50	No
	802.11ac(VHT20)	100	5500	11.16	11.50	No

		116	5580	11.22	11.50	No
		140	5700	11.19	11.50	No
		102	5510	11.12	11.50	No
	802.11ac(VHT40)	118	5590	11.20	11.50	No
		134	5670	11.14	11.50	No
		106	5530	11.22	11.50	Yes
	802.11ac(VHT80)	122	5610	11.19	11.50	Yes
		138	5690	<b>11.29</b>	11.50	Yes
		5.8 (5.725~5.850)	802.11a	149	5745	11.26
157	5785			11.21	11.50	No
165	5825			11.24	11.50	No
802.11n(HT20)	149		5745	11.19	11.50	No
	157		5785	11.29	11.50	No
	165		5825	11.31	11.50	No
802.11n(HT40)	151		5755	11.12	11.50	No
	159		5795	11.28	11.50	No
802.11ac(VHT20)	149		5745	11.13	11.50	No
	157	5785	11.20	11.50	No	
	165	5825	11.29	11.50	No	
802.11ac(VHT40)	151	5755	11.27	11.50	No	
	159	5795	11.28	11.50	No	
802.11ac(VHT80)	155	5775	<b>11.31</b>	11.50	Yes	

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

### 8.5.16 5G WIFI Level8

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	14.25	14.50	No
		44	5220	14.13	14.50	No
		48	5240	14.21	14.50	No
	802.11n(HT20)	36	5180	14.31	14.50	No
		44	5220	14.21	14.50	No
		48	5240	14.27	14.50	No
	802.11n(HT40)	38	5190	14.30	14.50	No
		46	5230	14.19	14.50	No
	802.11ac(VHT20)	36	5180	14.28	14.50	No
		44	5220	14.17	14.50	No
		48	5240	14.31	14.50	No
	802.11ac(VHT40)	38	5190	14.24	14.50	No



		46	5230	14.13	14.50	No
	802.11ac(VHT80)	42	5210	<b>14.17</b>	14.50	Yes
5.3 (5.25~5.35)	802.11a	52	5260	14.21	14.50	No
		60	5300	14.20	14.50	No
		64	5320	14.30	14.50	No
	802.11n(HT20)	52	5260	14.12	14.50	No
		60	5300	14.12	14.50	No
		64	5320	14.32	14.50	No
	802.11n(HT40)	54	5270	14.25	14.50	No
		62	5310	14.21	14.50	No
	802.11ac(VHT20)	52	5260	14.25	14.50	No
		60	5300	14.16	14.50	No
		64	5320	14.23	14.50	No
	802.11ac(VHT40)	54	5270	14.31	14.50	No
		62	5310	14.19	14.50	No
	802.11ac(VHT80)	58	5290	<b>14.13</b>	14.50	Yes
5.6 (5.47~5.725)	802.11a	100	5500	11.13	11.50	No
		116	5580	11.15	11.50	No
		140	5700	11.32	11.50	No
	802.11n(HT20)	100	5500	11.21	11.50	No
		116	5580	11.18	11.50	No
		140	5700	11.31	11.50	No
	802.11n(HT40)	102	5510	11.27	11.50	No
		118	5590	11.28	11.50	No
		134	5670	11.31	11.50	No
	802.11ac(VHT20)	100	5500	11.16	11.50	No
		116	5580	11.22	11.50	No
		140	5700	11.19	11.50	No
	802.11ac(VHT40)	102	5510	11.12	11.50	No
		118	5590	11.20	11.50	No
		134	5670	11.14	11.50	No
	802.11ac(VHT80)	106	5530	11.22	11.50	Yes
		122	5610	11.19	11.50	Yes
		138	5690	<b>11.29</b>	11.50	Yes
5.8 (5.725~5.850)	802.11a	149	5745	9.67	10.00	No
		157	5785	9.67	10.00	No
		165	5825	9.69	10.00	No
	802.11n(HT20)	149	5745	9.63	10.00	No
		157	5785	9.69	10.00	No
		165	5825	9.81	10.00	No
	802.11n(HT40)	151	5755	9.73	10.00	No

		159	5795	9.71	10.00	No
	802.11ac(VHT20)	149	5745	9.65	10.00	No
		157	5785	9.72	10.00	No
		165	5825	9.66	10.00	No
	802.11ac(VHT40)	151	5755	9.64	10.00	No
		159	5795	9.66	10.00	No
	802.11ac(VHT80)	155	5775	<b>9.73</b>	10.00	Yes

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

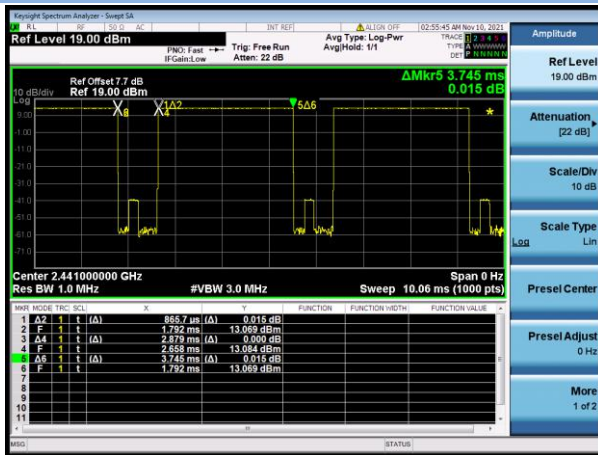
## 8.6 Bluetooth

Mode	GFSK			π/4-DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Average Power (dBm)	13.22	13.47	12.56	10.72	11.25	10.93
Tune-Up Limit (dBm)	14.00			12.50		
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Average Power (dBm)	10.66	11.23	10.90	/	/	/
Tune-Up Limit (dBm)	12.50			/		
Mode	BLE-1Mbps			BLE-2Mbps		
Channel	0	19	39	0	19	39
Frequency (MHz)	2402	2440	2480	2402	2440	2480
Average Power (dBm)	7.64	8.12	7.88	7.55	8.08	7.79
Tune-Up Limit (dBm)	9.50			9.50		

Note: The Bluetooth duty cycle is 76.88 % as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

### Duty Cycle Test plots

#### GFSK



## 8.7 Power Reduction List

1. This mobile phone device supports the receiver detection mechanism. This device uses the receiver to indicate whether the user is making a call in head.
2. When device is making call in head, the power reduction will applied for SAR compliance.
3. 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.
5. The device employs proximity sensors that detect the presence of the user's body and Product Specific of the device. When these conditions are detected, Body and Limb reduced power will be active.

**WWAN Reduced Power Level Table**

Reduced level	Receiver state	Transmitting conditions
State12	On (head scenario)	WWAN Use Only
State16	On (head scenario)	WWAN + WLAN 2.4G
State18	On (head scenario)	WWAN + WLAN 2.4+5G
State20	On (head scenario)	WWAN + WLAN 5G
State11	Off (Body scenario)	WWAN Use Only
State15	Off (Body scenario)	WWAN + WLAN 2.4G
State17	Off (Body scenario)	WWAN + WLAN 2.4+5G
State19	Off (Body scenario)	WWAN + WLAN 5G

**WWAN Antenna0 Reduced power level table**

WWAN Antenna Power table									
Mode	Antenna	Receiver on				Receiver off			
		Head				Body			
		Standalone	Simultaneous transmission			Standalone	Simultaneous transmission		
			+2.4GWLAN	+2.4+5GWLAN	+5GWLAN		+2.4GWLAN	+2.4+5GWLAN	+5GWLAN
		State12	State16	State18	State20	State11	State15	State17	State19
GSM 850	Ant1	31.50	24.00	24.00	24.00	33.50	33.50	33.50	33.50
GPRS850 1 Tx Slot	Ant1	31.50	24.00	24.00	24.00	33.50	33.50	33.50	33.50
GPRS850 2 Tx Slots	Ant1	29.00	21.50	21.50	21.50	31.00	31.00	31.00	31.00
GPRS850 3 Tx Slots	Ant1	27.00	19.50	19.50	19.50	29.00	29.00	29.00	29.00
GPRS850 4 Tx Slots	Ant1	26.00	18.50	18.50	18.50	28.00	28.00	28.00	28.00
EGPRS850 1 Tx Slot	Ant1	26.50	24.50	24.50	24.50	26.50	26.50	26.50	26.50
EGPRS850 2 Tx Slots	Ant1	24.50	21.00	21.00	21.00	24.50	24.50	24.50	24.50
EGPRS850 3 Tx Slots	Ant1	22.50	19.50	19.50	19.50	22.50	22.50	22.50	22.50
EGPRS850 4 Tx Slots	Ant1	22.00	18.00	18.00	18.00	22.00	22.00	22.00	22.00
GSM 850	Ant0	33.50	33.50	33.50	33.50	33.50	33.50	33.50	33.50
GPRS850 1 Tx Slot	Ant0	33.50	33.50	33.50	33.50	33.50	33.50	33.50	33.50
GPRS850 2 Tx Slots	Ant0	31.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00
GPRS850 3 Tx Slots	Ant0	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00
GPRS850 4 Tx Slots	Ant0	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00
EGPRS850 1 Tx Slot	Ant0	26.50	26.50	26.50	26.50	26.50	26.50	26.50	26.50
EGPRS850 2 Tx Slots	Ant0	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
EGPRS850 3 Tx Slots	Ant0	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00

EGPRS850 4 Tx Slots	Ant0	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50
GSM 1900	Ant1	27.50	23.00	23.00	23.00	30.50	30.50	29.50	30.50
GPRS1900 1 Tx Slot	Ant1	27.50	23.00	23.00	23.00	30.50	30.50	29.50	30.50
GPRS1900 2 Tx Slots	Ant1	24.50	20.00	20.00	20.00	27.50	27.50	26.50	27.50
GPRS1900 3 Tx Slots	Ant1	23.00	18.50	18.50	18.50	26.00	26.00	26.00	26.00
GPRS1900 4 Tx Slots	Ant1	22.00	17.50	17.50	17.50	25.00	25.00	24.00	25.00
EGPRS1900 1 Tx Slot	Ant1	25.50	20.50	20.50	20.50	26.50	26.50	25.50	26.50
EGPRS1900 2 Tx Slots	Ant1	23.50	18.00	18.00	18.00	25.50	25.50	23.50	25.50
EGPRS1900 3 Tx Slots	Ant1	21.00	16.50	16.50	16.50	24.00	24.00	21.50	24.00
EGPRS1900 4 Tx Slots	Ant1	19.00	16.00	16.00	16.00	23.50	23.50	20.50	23.50
GSM 1900	Ant0	30.50	30.50	30.50	30.50	30.50	30.50	29.00	30.50
GPRS1900 1 Tx Slot	Ant0	30.50	30.50	30.50	30.50	30.50	30.50	29.00	30.50
GPRS1900 2 Tx Slots	Ant0	27.50	27.50	27.50	27.50	27.50	27.50	26.00	27.50
GPRS1900 3 Tx Slots	Ant0	26.00	26.00	26.00	26.00	26.00	26.00	24.50	26.00
GPRS1900 4 Tx Slots	Ant0	25.00	25.00	25.00	25.00	25.00	25.00	23.50	25.00
EGPRS1900 1 Tx Slot	Ant0	26.50	26.50	26.50	26.50	26.50	26.50	26.50	26.50
EGPRS1900 2 Tx Slots	Ant0	25.50	25.50	25.50	25.50	25.50	25.50	24.00	25.50
EGPRS1900 3 Tx Slots	Ant0	24.00	24.00	24.00	24.00	24.00	24.00	22.50	24.00
EGPRS1900 4 Tx Slots	Ant0	23.50	23.50	23.50	23.50	23.50	23.50	20.00	23.50
WCDMA Band2 AMR	Ant1	18.00	16.50	11.00	11.00	20.00	20.00	20.00	20.00
WCDMA Band2 RMC	Ant1	18.00	16.50	11.00	11.00	20.00	20.00	20.00	20.00
HSDPA Subtest-1	Ant1	18.00	16.50	11.00	11.00	20.00	20.00	20.00	20.00
HSDPA Subtest-2	Ant1	18.00	16.50	11.00	11.00	20.00	20.00	20.00	20.00

HSDPA Subtest-3	Ant1	17.50	16.00	10.50	10.50	19.50	19.50	19.50	19.50
HSDPA Subtest-4	Ant1	17.50	16.00	10.50	10.50	19.50	19.50	19.50	19.50
HSUPA Subtest-1	Ant1	18.00	16.50	11.00	11.00	20.00	20.00	20.00	20.00
HSUPA Subtest-2	Ant1	16.00	14.50	9.00	9.00	18.00	18.00	18.00	18.00
HSUPA Subtest-3	Ant1	17.00	15.50	10.00	10.00	17.50	17.50	17.50	17.50
HSUPA Subtest-4	Ant1	16.00	14.50	9.00	9.00	18.00	18.00	18.00	18.00
HSUPA Subtest-5	Ant1	18.00	16.50	11.00	11.00	20.00	20.00	20.00	20.00
HSPA+	Ant1	16.00	14.50	9.00	9.00	18.00	18.00	18.00	18.00
WCDMA Band2 AMR	Ant0	24.00	24.00	24.00	24.00	21.00	21.00	21.00	21.00
WCDMA Band2 RMC	Ant0	24.00	24.00	24.00	24.00	21.00	21.00	21.00	21.00
HSDPA Subtest-1	Ant0	24.00	24.00	24.00	24.00	21.00	21.00	21.00	21.00
HSDPA Subtest-2	Ant0	24.00	24.00	24.00	24.00	21.00	21.00	21.00	21.00
HSDPA Subtest-3	Ant0	23.50	23.50	23.50	23.50	20.50	20.50	20.50	20.50
HSDPA Subtest-4	Ant0	23.50	23.50	23.50	23.50	20.50	20.50	20.50	20.50
HSUPA Subtest-1	Ant0	24.00	24.00	24.00	24.00	21.00	21.00	21.00	21.00
HSUPA Subtest-2	Ant0	22.00	22.00	22.00	22.00	19.00	19.00	19.00	19.00
HSUPA Subtest-3	Ant0	23.00	23.00	23.00	23.00	18.50	18.50	18.50	18.50
HSUPA Subtest-4	Ant0	22.00	22.00	22.00	22.00	19.00	19.00	19.00	19.00
HSUPA Subtest-5	Ant0	24.00	24.00	24.00	24.00	21.00	21.00	21.00	21.00
HSPA+	Ant0	22.00	22.00	22.00	22.00	19.00	19.00	19.00	19.00
WCDMA Band4 AMR	Ant1	18.00	16.50	11.00	11.00	20.00	20.00	20.00	20.00
WCDMA Band4 RMC	Ant1	18.00	16.50	11.00	11.00	20.00	20.00	20.00	20.00
HSDPA Subtest-1	Ant1	18.00	16.50	11.00	11.00	20.00	20.00	20.00	20.00

HSDPA Subtest-2	Ant1	18.00	16.50	11.00	11.00	20.00	20.00	20.00	20.00
HSDPA Subtest-3	Ant1	16.50	15.00	9.50	9.50	18.50	18.50	18.50	18.50
HSDPA Subtest-4	Ant1	16.50	15.00	9.50	9.50	18.50	18.50	18.50	18.50
HSUPA Subtest-1	Ant1	18.00	16.50	11.00	11.00	20.00	20.00	20.00	20.00
HSUPA Subtest-2	Ant1	14.50	13.00	7.50	7.50	16.50	16.50	16.50	16.50
HSUPA Subtest-3	Ant1	15.50	14.00	8.50	8.50	17.50	17.50	17.50	17.50
HSUPA Subtest-4	Ant1	14.50	13.00	7.50	7.50	16.50	16.50	16.50	16.50
HSUPA Subtest-5	Ant1	18.00	16.50	11.00	11.00	20.00	20.00	20.00	20.00
HSPA+	Ant1	15.50	14.00	8.50	8.50	17.50	17.50	17.50	17.50
WCDMA Band4 AMR	Ant0	24.00	24.00	24.00	24.00	21.00	21.00	21.00	21.00
WCDMA Band4 RMC	Ant0	24.00	24.00	24.00	24.00	21.00	21.00	21.00	21.00
HSDPA Subtest-1	Ant0	24.00	24.00	24.00	24.00	21.00	21.00	21.00	21.00
HSDPA Subtest-2	Ant0	24.00	24.00	24.00	24.00	21.00	21.00	21.00	21.00
HSDPA Subtest-3	Ant0	22.50	22.50	22.50	22.50	19.50	19.50	19.50	19.50
HSDPA Subtest-4	Ant0	22.50	22.50	22.50	22.50	19.50	19.50	19.50	19.50
HSUPA Subtest-1	Ant0	24.00	24.00	24.00	24.00	21.00	21.00	21.00	21.00
HSUPA Subtest-2	Ant0	20.50	20.50	20.50	20.50	17.50	17.50	17.50	17.50
HSUPA Subtest-3	Ant0	21.50	21.50	21.50	21.50	18.50	18.50	18.50	18.50
HSUPA Subtest-4	Ant0	20.50	20.50	20.50	20.50	17.50	17.50	17.50	17.50
HSUPA Subtest-5	Ant0	24.00	24.00	24.00	24.00	21.00	21.00	21.00	21.00
HSPA+	Ant0	21.50	21.50	21.50	21.50	18.50	18.50	18.50	18.50
WCDMA Band5 AMR	Ant1	23.50	23.00	17.50	18.50	24.50	24.50	24.50	24.50
WCDMA Band5 RMC	Ant1	23.50	23.00	17.50	18.50	24.50	24.50	24.50	24.50



HSDPA Subtest-1	Ant1	22.50	22.00	16.50	17.50	23.50	23.50	23.50	23.50
HSDPA Subtest-2	Ant1	22.50	22.00	16.50	17.50	23.50	23.50	23.50	23.50
HSDPA Subtest-3	Ant1	22.00	21.50	16.00	17.00	23.00	23.00	23.00	23.00
HSDPA Subtest-4	Ant1	22.00	21.50	16.00	17.00	23.00	23.00	23.00	23.00
HSUPA Subtest-1	Ant1	22.50	22.00	16.50	17.50	23.50	23.50	23.50	23.50
HSUPA Subtest-2	Ant1	20.50	20.00	14.50	15.50	21.50	21.50	21.50	21.50
HSUPA Subtest-3	Ant1	21.50	21.00	15.50	16.50	22.50	22.50	22.50	22.50
HSUPA Subtest-4	Ant1	20.50	20.00	14.50	15.50	21.50	21.50	21.50	21.50
HSUPA Subtest-5	Ant1	22.50	22.00	16.50	17.50	23.50	23.50	23.50	23.50
HSPA+	Ant1	21.50	21.00	15.50	16.50	22.50	22.50	22.50	22.50
WCDMA Band5 AMR	Ant0	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
WCDMA Band5 RMC	Ant0	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
HSDPA Subtest-1	Ant0	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50
HSDPA Subtest-2	Ant0	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50
HSDPA Subtest-3	Ant0	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00
HSDPA Subtest-4	Ant0	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00
HSUPA Subtest-1	Ant0	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50
HSUPA Subtest-2	Ant0	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50
HSUPA Subtest-3	Ant0	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50
HSUPA Subtest-4	Ant0	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50
HSUPA Subtest-5	Ant0	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50
HSPA+	Ant0	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50
LTE Band2	Ant1	19.50	18.50	14.00	14.00	19.50	19.50	18.50	18.50

LTE Band2	Ant0	23.50	23.50	23.50	23.50	20.50	19.50	18.50	18.50
LTE Band4	Ant1	19.50	18.50	14.00	14.00	19.50	19.50	18.50	18.50
LTE Band4	Ant0	23.50	23.50	23.50	23.50	20.50	20.50	19.50	19.50
LTE Band5	Ant1	23.50	23.00	17.00	17.00	24.50	24.50	24.50	24.50
LTE Band5	Ant0	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
LTE Band7	Ant1	17.00	16.50	13.50	14.00	20.00	20.00	18.50	18.00
LTE Band7	Ant0	24.00	24.00	24.00	24.00	22.00	22.00	21.00	21.00
LTE Band12	Ant1	24.50	23.50	20.50	20.50	24.50	24.50	24.50	24.50
LTE Band12	Ant0	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
LTE Band13	Ant1	24.50	23.00	20.50	20.50	24.50	24.50	24.50	24.50
LTE Band13	Ant0	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
LTE Band17	Ant1	24.50	23.00	20.50	20.50	24.50	24.50	24.50	24.50
LTE Band17	Ant0	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
LTE Band26	Ant1	24.00	21.50	17.50	17.50	23.00	21.50	20.00	20.00
LTE Band26	Ant0	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
LTE Band66	Ant1	19.00	19.00	10.50	10.50	20.00	20.00	19.00	19.00
LTE Band66	Ant0	24.00	24.00	24.00	24.00	20.00	20.00	20.00	20.00
LTE Band38	Ant1	20.00	17.50	17.00	17.00	22.00	20.50	20.50	20.50
LTE Band38	Ant0	24.00	24.00	24.00	24.00	22.00	21.00	20.50	20.50
LTE Band41	Ant1	20.50	18.00	17.50	17.50	22.50	21.00	21.00	21.00
LTE Band41	Ant0	24.50	24.50	24.50	24.50	22.50	21.5	21.00	21.00

**ENDC Antenna Power table**

EN-DC Configurations	E-UTRA	NR	Antenna Configurations			
	Band	Band	1	2	3	4
DC_7A+n5A	LTE Band7	n5	LTE Ant.0	LTE Ant.4	/	/

			NR Ant.1	NR Ant.1	/	/
DC_66A_n5A	LTE Band66	n5	LTE Ant.0	LTE Ant.4	/	/
			NR Ant.1	NR Ant.1	/	/
DC_2A_n7A	LTE Band2	n7	LTE Ant.1	LTE Ant.1	LTE Ant.3	LTE Ant.3
			NR Ant.0	NR Ant.4	NR Ant.0	NR Ant.4
DC_5A_n7A	LTE Band5	n7	LTE Ant.1	LTE Ant.1	/	/
			NR Ant.0	NR Ant.4	/	/
DC_66A_n7A	LTE Band66	n7	LTE Ant.1	LTE Ant.1	LTE Ant.3	LTE Ant.3
			NR Ant.0	NR Ant.4	NR Ant.0	NR Ant.4
DC_26A+n41A	LTE Band26	n41	LTE Ant.1	LTE Ant.1	/	/
			NR Ant.0	NR Ant.4	/	/
DC_5A+n66A	LTE Band5	n66	LTE Ant.1	LTE Ant.1	/	/
			NR Ant.0	NR Ant.4	/	/
DC_7A+n66A	LTE Band7	n66	LTE Ant.1	LTE Ant.1	LTE Ant.3	LTE Ant.3
			NR Ant.0	NR Ant.4	NR Ant.0	NR Ant.4
DC_12A+n66A	LTE Band12	n66	LTE Ant.1	LTE Ant.1	/	/
			NR Ant.0	NR Ant.4	/	/

Mode	Band	Antenna	WWAN Antenna							
			Receiver on				Receiver off			
			Head				Body			
			Standalone	Simultaneous transmission			Standalone	Simultaneous transmission		
				+2.4GWLAN	+2.4+5GWLAN	+5GWLAN		+2.4GWLAN	+2.4+5GWLAN	+5GWLAN
State12	State16	State18	State20	State11	State15	State17	State19			
n5(SA)		Ant.0	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20

n5 (SA)		Ant.1	24.20	24.20	22.70	24.20	24.20	24.20	24.20	24.20
DC_7A+n5A	n5	Ant.1	23.20	22.70	19.20	22.70	24.20	24.20	24.20	24.20
	LTE Band7	Ant.0	24.20	24.20	24.20	24.20	22.50	21.00	19.50	21.00
DC_7A+n5A	n5	Ant.1	23.20	22.70	19.20	22.70	24.20	24.20	24.20	24.20
	LTE Band7	Ant.4	19.00	18.50	18.00	18.50	19.00	18.50	18.00	18.50
DC_66A_n5A	n5	Ant.1	23.20	22.70	19.20	22.70	24.20	24.20	24.20	24.20
	LTE Band66	Ant.0	24.00	24.00	24.00	24.00	19.68	18.00	17.00	18.00
DC_66A_n5A	n5	Ant.1	23.20	22.70	19.20	22.70	24.20	24.20	24.20	24.20
	LTE Band66	Ant.4	23.00	22.50	22.00	22.50	24.00	24.00	24.00	24.00
n7 (SA)		Ant.0	23.70	23.70	23.70	23.70	23.70	22.20	21.20	22.20
n7 (SA)		Ant.1	17.70	16.20	17.70	17.70	17.70	16.20	15.20	16.20
DC_2A_n7A	n7	Ant.0	23.70	23.70	23.70	23.70	21.70	19.70	18.20	19.70
	LTE Band2	Ant.1	16.00	14.00	12.00	14.00	20.00	18.50	16.50	18.50
DC_2A_n7A	n7	Ant.0	23.70	23.70	23.70	23.70	21.70	19.70	18.20	19.70
	LTE Band2	Ant.3	22.50	22.00	21.50	22.00	23.50	23.50	23.50	23.50
DC_2A_n7A	n7	Ant.4	21.70	20.70	19.70	20.70	21.70	20.70	19.70	20.70
	LTE Band2	Ant.1	16.00	14.00	12.00	14.00	20.00	18.50	16.50	18.50
DC_2A_n7A	n7	Ant.4	21.70	20.70	19.70	20.70	21.70	20.70	19.70	20.70
	LTE Band2	Ant.3	22.50	22.00	21.50	22.00	23.50	23.50	23.50	23.50
DC_5A_n7A	n7	Ant.0	23.70	23.70	23.70	23.70	21.70	19.70	18.20	19.70
	LTE Band5	Ant.1	21.50	20.50	18.50	20.50	24.50	24.50	23.50	24.50
DC_5A_n7A	n7	Ant.4	21.70	20.70	19.70	20.70	21.70	20.70	19.70	20.70
	LTE Band5	Ant.1	21.50	20.50	18.50	20.50	24.50	24.50	23.50	24.50
DC_66A_n7A	n7	Ant.0	23.70	23.70	23.70	23.70	21.70	19.70	18.20	19.70

	LTE Band66	Ant.1	16.50	14.50	12.00	14.50	20.50	22.00	12.00	22.00
DC_66A_n7A	n7	Ant.0	23.70	23.70	23.70	23.70	21.70	19.70	18.20	19.70
	LTE Band66	Ant.3	23.00	22.50	22.00	22.50	24.00	24.00	24.00	24.00
DC_66A_n7A	n7	Ant.4	21.70	20.70	19.70	20.70	21.70	20.70	19.70	20.70
	LTE Band66	Ant.1	16.50	14.50	12.00	14.50	20.50	22.00	12.00	22.00
DC_66A_n7A	n7	Ant.4	21.70	20.70	19.70	20.70	21.70	20.70	19.70	20.70
	LTE Band66	Ant.3	23.00	22.50	22.00	22.50	24.00	24.00	24.00	24.00
n38(SA)		Ant.0	24.20	24.20	24.20	24.20	24.20	23.20	22.70	23.20
n38(SA)		Ant.1	18.20	18.20	18.20	18.20	19.20	18.20	18.20	18.20
n41(SA)		Ant.0	24.20	24.20	24.20	24.20	24.20	21.20	22.20	21.20
n41(SA)		Ant.1	17.20	17.20	17.20	17.20	19.20	24.20	24.20	24.20
DC_26A+n41A	n41	Ant.0	24.20	24.20	24.20	24.20	22.70	21.20	19.70	21.20
	LTE Band26	Ant.1	21.00	19.00	17.00	19.00	20.50	18.50	16.50	18.50
DC_26A+n41A	n41	Ant.4	21.70	20.70	19.70	20.70	21.70	20.70	19.70	20.70
	LTE Band26	Ant.1	21.00	19.00	17.00	19.00	20.50	18.50	16.50	18.50
n66(SA)		Ant.0	24.20	24.20	24.20	24.20	23.20	20.70	19.70	20.70
n66(SA)		Ant.1	19.70	19.70	19.70	19.70	23.20	22.20	16.20	22.20
DC_5A+n66A	n66	Ant.0	24.20	24.20	24.20	24.20	20.20	18.20	16.70	18.20
	LTE Band5	Ant.1	21.50	20.50	18.50	20.50	24.50	24.50	23.50	24.50
DC_5A+n66A	n66	Ant.4	23.20	22.20	21.20	22.20	24.20	24.20	24.20	24.20
	LTE Band5	Ant.1	21.50	20.50	18.50	20.50	24.50	24.50	23.50	24.50
DC_7A+n66A	n66	Ant.0	24.20	24.20	24.20	24.20	20.20	18.20	16.70	18.20
	LTE Band7	Ant.1	15.50	13.50	11.00	13.50	22.50	15.00	11.00	13.50
DC_7A+n66A		Ant.0	24.20	24.20	24.20	24.20	20.20	18.20	16.70	18.20

	LTE Band7	Ant.3	19.00	18.50	18.00	18.50	19.00	21.00	19.50	21.00
DC_7A+n66A	n66	Ant.4	23.20	22.20	21.20	22.20	24.20	24.20	24.20	24.20
	LTE Band7	Ant.1	15.50	13.50	11.00	13.50	22.50	15.00	11.00	13.50
DC_7A+n66A	n66	Ant.4	23.20	22.20	21.20	22.20	24.20	24.20	24.20	24.20
	LTE Band7	Ant.3	19.00	18.50	18.00	18.50	19.00	21.00	19.50	21.00
DC_12A+n66A	n66	Ant.0	24.20	24.20	24.20	24.20	20.20	18.20	16.70	18.20
	LTE Band12	Ant.1	23.50	21.50	19.50	21.50	24.50	24.50	24.50	24.50
DC_12A+n66A	n66	Ant.4	23.20	22.20	21.20	22.20	24.20	24.20	24.20	24.20
	LTE Band12	Ant.1	23.50	21.50	19.50	21.50	24.50	24.50	24.50	24.50

**WLAN&BT Reduced Power Level Table**

Reduced level	Receiver state	Transmitting conditions
Level 1	On (head scenario)	WLAN Use Only
Level 2	On (head scenario)	2.4G+5G
Level 3	On (head scenario)	WWAN + WLAN 2.4G/5G
Level 4	On (head scenario)	WWAN + WLAN 2.4G+WLAN 5G
Level 5	Off (Body scenario)	WLAN Use Only
Level 6	Off (Body scenario)	2.4G+5G
Level 7	Off (Body scenario)	WWAN + WLAN 2.4G/5G
Level 8	Off (Body scenario)	WWAN + WLAN 2.4G+WLAN 5G

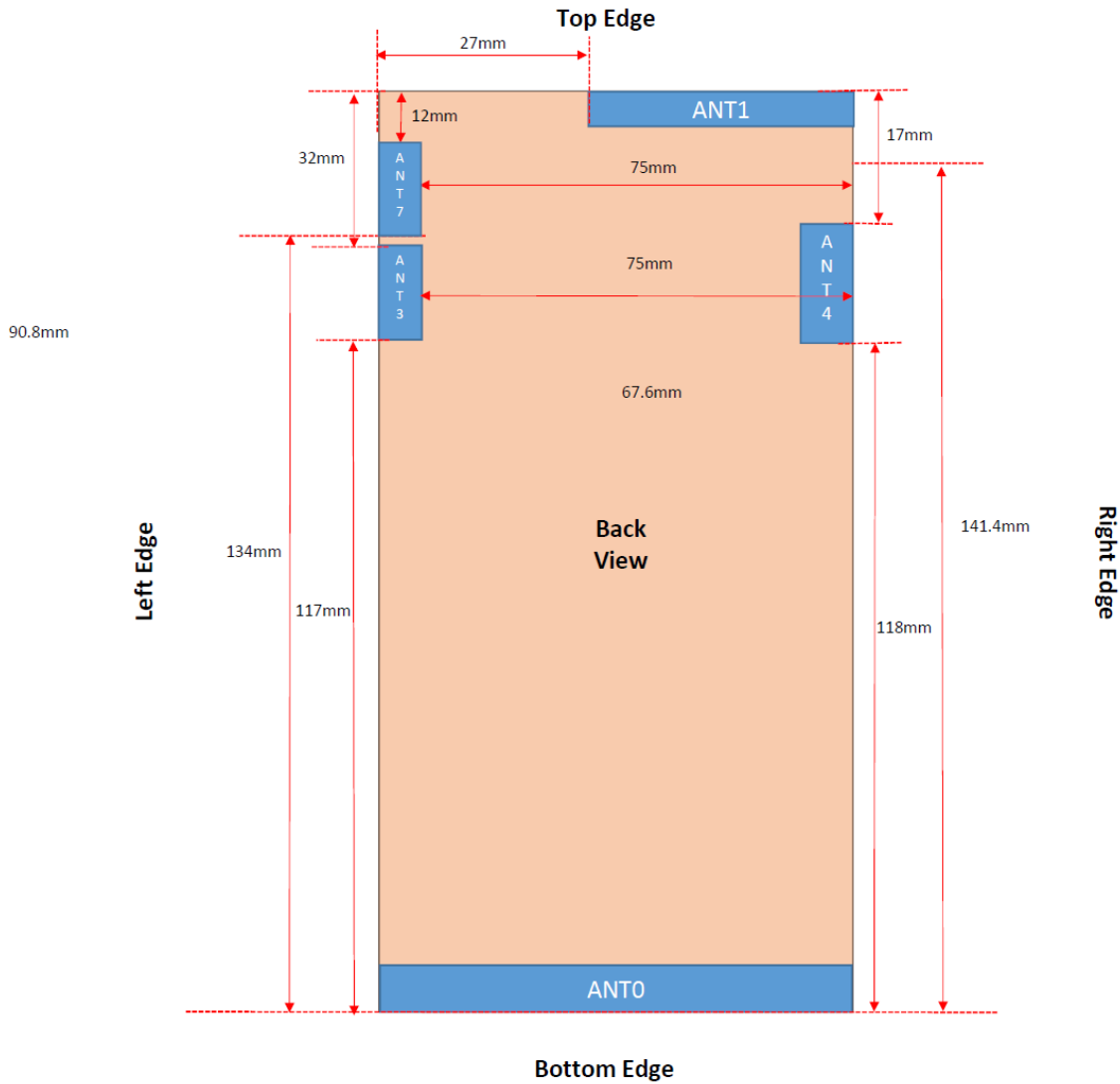
**WLAN Antenna7 Reduced power level table**

Mode	WLAN Antenna							
	Receiver on				Receiver off			
	Head				Body			
	Standalone	Simultaneous transmission			Standalone	Simultaneous transmission		
		2.4G+5G	WWAN+2.4/5G	WWAN+2.4G+5G		2.4G+5G	WWAN+2.4/5G	WWAN+2.4G+5G
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8
2.4G WLAN 802.11b	17.00	11.00	12.00	11.00	20.00	18.00	17.00	16.00
2.4G WLAN 802.11g	16.00	10.00	11.00	10.00	19.00	17.00	16.00	15.00
2.4G WLAN 802.11n20	16.00	10.00	11.00	10.00	19.00	17.00	16.00	15.00
2.4G WLAN 802.11n40	16.00	10.00	11.00	10.00	19.00	17.00	16.00	15.00
5.2G WLAN 802.11a	13.50	10.50	11.50	11.50	19.00	16.50	15.50	14.50

5.2G WLAN 802.11n20	13.50	10.50	11.50	11.50	19.00	16.50	15.50	14.50
5.2G WLAN 802.11n40	13.50	10.50	11.50	11.50	19.00	16.50	15.50	14.50
5.2G WLAN 802.11ac20	13.50	10.50	11.50	11.50	19.00	16.50	15.50	14.50
5.2G WLAN 802.11ac40	13.50	10.50	11.50	11.50	19.00	16.50	15.50	14.50
5.2G WLAN 802.11ac80	13.50	10.50	11.50	11.50	19.00	16.50	15.50	14.50
5.3G WLAN 802.11n20	13.50	10.50	11.50	11.50	19.00	16.50	15.50	14.50
5.3G WLAN 802.11n40	13.50	10.50	11.50	11.50	19.00	16.50	15.50	14.50
5.3G WLAN 802.11ac20	13.50	10.50	11.50	11.50	19.00	16.50	15.50	14.50
5.3G WLAN 802.11ac40	13.50	10.50	11.50	11.50	19.00	16.50	15.50	14.50
5.3G WLAN 802.11ac80	13.50	10.50	11.50	11.50	19.00	16.50	15.50	14.50
5.6G WLAN 802.11a	13.50	10.50	9.50	9.50	19.00	16.50	15.50	14.50
5.6G WLAN 802.11n20	13.50	10.50	9.50	9.50	19.00	16.50	11.50	11.50
5.6G WLAN 802.11n40	13.50	10.50	9.50	9.50	19.00	16.50	11.50	11.50
5.6G WLAN 802.11ac20	13.50	10.50	9.50	9.50	19.00	16.50	11.50	11.50
5.6G WLAN 802.11ac40	13.50	10.50	9.50	9.50	19.00	16.50	11.50	11.50
5.6G WLAN 802.11ac80	13.50	10.50	9.50	9.50	19.00	16.50	11.50	11.50
5.8G WLAN 802.11a	13.50	10.50	9.50	9.50	19.00	15.50	11.50	11.50
5.8G WLAN 802.11n20	13.50	10.50	9.50	9.50	19.00	15.50	11.50	10.00
5.8G WLAN 802.11n40	13.50	10.50	9.50	9.50	19.00	15.50	11.50	10.00
5.8G WLAN 802.11ac20	13.50	10.50	9.50	9.50	19.00	15.50	11.50	10.00
5.8G WLAN 802.11ac40	13.50	10.50	9.50	9.50	19.00	15.50	11.50	10.00
5.8G LAN 802.11ac80	13.50	10.50	9.50	9.50	19.00	15.50	11.50	10.00
Bluetooth	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00



# 9 TEST EXCLUSION CONSIDERATION



Antenna	Support Bands
Antenna 0	GSM850/1900
	WCDMA B2/4/5
	LTE B2/4/5/7/12/13/17/26/66/38/41
	NR N7/66/38/41(SA&NSA);N5(SA)
Antenna 1	GSM850/1900
	WCDMA B2/4/5
	LTE B2/4/5/7/12/13/17/26/66/38/41
	NR N7/66/38/40/41(SA);N5(SA&NSA)
Antenna 3	LTE B2/7/66(NSA)
Antenna 4	LTE B7(NSA)
	NR N7/66/41(NSA)
Antenna 7	WLAN 2.4G/5G;BT

Antenna	Front Side(mm)	Back Side(mm)	Left Edge(mm)	Right Edge(mm)	Top Edge(mm)	Bottom Edge(mm)
ANT0	<5	<5	<5	<5	>25	<5
ANT1	<5	<5	>25	<5	<5	>25
ANT3	<5	<5	<5	>25	>25	>25
ANT4	<5	<5	>25	<5	17	>25
ANT7	<5	<5	<5	>25	12	>25

## 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	<5mm	>25mm	<5mm
	Data	33.50	2238.72	Yes	Yes	Yes	Yes	No	Yes
GSM 1900	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	Data	30.50	1122.02	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 2	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	RMC	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 4	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	RMC	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 5	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	RMC	24.50	281.84	Yes	Yes	Yes	Yes	No	Yes
LTE Band 2	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	QPSK	23.50	223.87	Yes	Yes	Yes	Yes	No	Yes
LTE Band 4	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	QPSK	23.50	223.87	Yes	Yes	Yes	Yes	No	Yes
LTE Band 5	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	QPSK	24.50	281.84	Yes	Yes	Yes	Yes	No	Yes
LTE Band 7	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes
LTE Band 12	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	QPSK	24.50	281.84	Yes	Yes	Yes	Yes	No	Yes
LTE Band 13	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	QPSK	24.50	281.84	Yes	Yes	Yes	Yes	No	Yes
LTE Band 17	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	QPSK	24.50	281.84	Yes	Yes	Yes	Yes	No	Yes
LTE Band 26	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes
LTE Band 66	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes
LTE Band 38	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes
LTE Band 41	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	QPSK	24.50	281.84	Yes	Yes	Yes	Yes	No	Yes
n5	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	DFT-s-OFDM QPSK	24.20	263.03	Yes	Yes	Yes	Yes	No	Yes

n7	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	DFT-s-OFDM QPSK	23.70	234.42	Yes	Yes	Yes	Yes	No	Yes
n66	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	DFT-s-OFDM QPSK	24.20	263.03	Yes	Yes	Yes	Yes	No	Yes
n38	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	DFT-s-OFDM QPSK	24.20	263.03	Yes	Yes	Yes	Yes	No	Yes
n41	Distance to User			<5mm	<5mm	<5mm	<5mm	>25mm	<5mm
	DFT-s-OFDM QPSK	24.20	263.03	Yes	Yes	Yes	Yes	No	Yes

## ANT 1

Band	Mode	Max. Peak Power		Test Position Configurations					
		dBm	mW	Head	Front/ Back	Left Edge	Right Edge	Top Edge	Bottom Edge
GSM 850	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	Data	33.50	2238.72	Yes	Yes	No	Yes	Yes	No
GSM 1900	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	Data	30.50	1122.02	Yes	Yes	No	Yes	Yes	No
WCDMA Band 2	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	RMC	20.00	100.00	Yes	Yes	No	Yes	Yes	No
WCDMA Band 4	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	RMC	20.00	100.00	Yes	Yes	No	Yes	Yes	No
WCDMA Band 5	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	RMC	24.50	281.84	Yes	Yes	No	Yes	Yes	No
LTE Band 2	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	QPSK	19.50	89.13	Yes	Yes	No	Yes	Yes	No
LTE Band 4	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	QPSK	19.50	89.13	Yes	Yes	No	Yes	Yes	No
LTE Band 5	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	QPSK	24.50	281.84	Yes	Yes	No	Yes	Yes	No
LTE Band 7	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	QPSK	17.00	50.12	Yes	Yes	No	Yes	Yes	No
LTE Band 12	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	QPSK	24.50	281.84	Yes	Yes	No	Yes	Yes	No
LTE Band 13	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	QPSK	24.50	281.84	Yes	Yes	No	Yes	Yes	No
LTE Band 17	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	QPSK	24.50	281.84	Yes	Yes	No	Yes	Yes	No
LTE Band 26	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	QPSK	24.00	251.19	Yes	Yes	No	Yes	Yes	No

LTE Band 66	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	QPSK	19.00	79.43	Yes	Yes	No	Yes	Yes	No
LTE Band 38	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	QPSK	20.00	100.00	Yes	Yes	No	Yes	Yes	No
LTE Band 41	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	QPSK	20.50	112.20	Yes	Yes	No	Yes	Yes	No
n5	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	DFT-s-OFDM QPSK	23.20	208.93	Yes	Yes	No	Yes	Yes	No
n7	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	DFT-s-OFDM QPSK	17.70	58.88	Yes	Yes	No	Yes	Yes	No
n66	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	DFT-s-OFDM QPSK	19.70	93.33	Yes	Yes	No	Yes	Yes	No
n38	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	DFT-s-OFDM QPSK	18.20	66.07	Yes	Yes	No	Yes	Yes	No
n41	Distance to User			<5mm	<5mm	>25mm	<5mm	<5mm	>25mm
	DFT-s-OFDM QPSK	17.20	52.48	Yes	Yes	No	Yes	Yes	No

**ANT 3**

Band	Mode	Max. Peak Power		Test Position Configurations					
		dBm	mW	Head	Front/ Back	Left Edge	Right Edge	Top Edge	Bottom Edge
LTE Band 2	Distance to User			<5mm	<5mm	<5mm	>25mm	>25mm	>25mm
	QPSK	22.50	177.83	Yes	Yes	Yes	No	No	No
LTE Band 7	Distance to User			<5mm	<5mm	<5mm	>25mm	>25mm	>25mm
	QPSK	19.00	79.43	Yes	Yes	Yes	No	No	No
LTE Band 66	Distance to User			<5mm	<5mm	<5mm	>25mm	>25mm	>25mm
	QPSK	23.00	199.53	Yes	Yes	Yes	No	No	No

**ANT 4**

Band	Mode	Max. Peak Power		Test Position Configurations					
		dBm	mW	Head	Front/ Back	Left Edge	Right Edge	Top Edge	Bottom Edge
LTE Band 7	Distance to User			<5mm	<5mm	>25mm	<5mm	17mm	>25mm
	QPSK	19.00	79.43	Yes	Yes	No	Yes	Yes	No
n7	Distance to User			<5mm	<5mm	>25mm	<5mm	17mm	>25mm
	DFT-s-OFDM QPSK	21.70	147.91	Yes	Yes	No	Yes	Yes	No
n66	Distance to User			<5mm	<5mm	>25mm	<5mm	17mm	>25mm
	DFT-s-OFDM	21.70	147.91	Yes	Yes	No	Yes	Yes	No

	QPSK								
n41	Distance to User			<5mm	<5mm	>25mm	<5mm	17mm	>25mm
	DFT-s-OFDM QPSK	23.20	208.93	Yes	Yes	No	Yes	Yes	No

## ANT 7

Band	Mode	Max. Peak Power		Test Position Configurations					
		dBm	mW	Head	Front/ Back	Left Edge	Right Edge	Top Edge	Bottom Edge
WLAN 2.4 G	Distance to User			<5mm	<5mm	<5mm	>25mm	12mm	>25mm
	802.11b	17.00	50.12	Yes	Yes	Yes	No	Yes	No
	802.11g	16.00	39.81	Yes	Yes	Yes	No	Yes	No
	802.11n(HT20)	16.00	39.81	Yes	Yes	Yes	No	Yes	No
	802.11n(HT40)	16.00	39.81	Yes	Yes	Yes	No	Yes	No
WLAN 5.2 G	Distance to User			<5mm	<5mm	<5mm	>25mm	12mm	>25mm
	802.11a	13.50	22.39	Yes	Yes	Yes	No	Yes	No
	802.11n(HT20)	13.50	22.39	Yes	Yes	Yes	No	Yes	No
	802.11n(HT40)	13.50	22.39	Yes	Yes	Yes	No	Yes	No
	802.11ac(VHT20)	13.50	22.39	Yes	Yes	Yes	No	Yes	No
	802.11ac(VHT40)	13.50	22.39	Yes	Yes	Yes	No	Yes	No
WLAN 5.3 G	Distance to User			<5mm	<5mm	<5mm	>25mm	12mm	>25mm
	802.11a	13.50	22.39	Yes	Yes	Yes	No	Yes	No
	802.11n(HT20)	13.50	22.39	Yes	Yes	Yes	No	Yes	No
	802.11n(HT40)	13.50	22.39	Yes	Yes	Yes	No	Yes	No
	802.11ac(VHT20)	13.50	22.39	Yes	Yes	Yes	No	Yes	No
	802.11ac(VHT40)	13.50	22.39	Yes	Yes	Yes	No	Yes	No
WLAN 5.6 G	Distance to User			<5mm	<5mm	<5mm	>25mm	12mm	>25mm
	802.11a	13.50	22.39	Yes	Yes	Yes	No	Yes	No
	802.11n(HT20)	13.50	22.39	Yes	Yes	Yes	No	Yes	No
	802.11n(HT40)	13.50	22.39	Yes	Yes	Yes	No	Yes	No
	802.11ac(VHT20)	13.50	22.39	Yes	Yes	Yes	No	Yes	No
	802.11ac(VHT40)	13.50	22.39	Yes	Yes	Yes	No	Yes	No
WLAN 5.8 G	Distance to User			<5mm	<5mm	<5mm	>25mm	12mm	>25mm
	802.11a	13.50	22.39	Yes	Yes	Yes	No	Yes	No
	802.11n(HT20)	13.50	22.39	Yes	Yes	Yes	No	Yes	No
	802.11n(HT40)	13.50	22.39	Yes	Yes	Yes	No	Yes	No
	802.11ac(VHT20)	13.50	22.39	Yes	Yes	Yes	No	Yes	No
	802.11ac(VHT40)	13.50	22.39	Yes	Yes	Yes	No	Yes	No
Bluetooth	Distance to User			<5mm	<5mm	<5mm	>25mm	12mm	>25mm

	BT	14.00	25.12	Yes	Yes	Yes	No	Yes	No
<p>Note:</p> <ol style="list-style-type: none"> <li>1. Maximum power is the source-based time-average power and represents the maximum RF output power including tune-up tolerance among production units</li> <li>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.</li> <li>3. Per KDB 447498 D01, standalone SAR test exclusion threshold is applied; If the distance of the antenna to the user is &lt; 5mm, 5mm is used to determine SAR exclusion threshold</li> <li>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: <ul style="list-style-type: none"> <li>[(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</li> <ol style="list-style-type: none"> <li>a. f(GHz) is the RF channel transmit frequency in GHz</li> <li>b. Power and distance are rounded to the nearest mW and mm before calculation</li> <li>c. The result is rounded to one decimal place for comparison</li> <li>d. For &lt; 50 mm distance, we just calculate mW of the exclusion threshold value (3.0) to do compare.</li> </ol> <p>This formula is <math>[3.0] / [\sqrt{f(\text{GHz})}] \cdot [(\text{min. test separation distance, mm})] = \text{exclusion threshold of mW}</math>.</p> </ul></li> <li>5. Per KDB 447498 D01, at 100 MHz to 6 GHz and for test separation distances &gt; 50 mm, the SAR test exclusion threshold is determined according to the following <ol style="list-style-type: none"> <li>a. [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · ( f(MHz)/150)] mW, at 100 MHz to 1500 MHz</li> <li>b. [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · 10] mW at &gt; 1500 MHz and ≤ 6 GHz</li> </ol> </li> <li>6. Per KDB 941225 D01, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA /HSUPA /DC-HSDPA output power is &lt; 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.</li> <li>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</li> <li>8. Per KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions. <ol style="list-style-type: none"> <li>a. When KDB Publication 447498 D01 SAR test exclusion applies to the OFDM configuration.</li> <li>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.</li> </ol> </li> <li>9. Per KDB 248227 D01 SAR is not required for the following U-NII-1 and U-NII-2A bands conditions. <ol style="list-style-type: none"> <li>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.</li> <li>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.</li> </ol> </li> </ol>									

# 10 TEST RESULT

## 10.1 GSM 850

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>													
Ant.1	state12	GPRS (4slots)	Left Cheek	0	128	824.2	0.09	0.652	28.85	29.00	1.036	0.675	/
	state12		Left Tilt	0	128	824.2	-0.02	0.574	28.85	29.00	1.036	0.595	/
	state12		Right Cheek	0	128	824.2	-0.02	0.835	28.85	29.00	1.036	<b>0.865</b>	1#
	state12			0	190	836.6	0.10	0.729	28.59	29.00	1.100	0.802	/
	state12			0	251	848.8	-0.09	0.743	28.36	29.00	1.158	0.861	/
	state12		Right Tilt	0	128	824.2	-0.07	0.747	28.85	29.00	1.036	0.774	/
Ant.1	state16&18&20	GPRS (2slots)	Left Cheek	0	251	848.8	0.17	0.126	21.45	21.50	1.011	0.127	/
	state16&18&20		Left Tilt	0	251	848.8	0.10	0.113	21.45	21.50	1.011	0.114	/
	state16&18&20		Right Cheek	0	251	848.8	-0.10	0.168	21.45	21.50	1.011	0.170	/
	state16&18&20		Right Tilt	0	251	848.8	0.11	0.153	21.45	21.50	1.011	0.155	/
Ant.0	state12&16&18&20	GPRS (2slots)	Left Cheek	0	190	836.6	-0.14	0.121	29.93	31.00	1.278	0.155	/
	state12&16&18&20		Left Tilt	0	190	836.6	-0.03	0.061	29.93	31.00	1.278	0.078	/
	state12&16&18&20		Right Cheek	0	190	836.6	0.03	0.090	29.93	31.00	1.278	0.115	/
	state12&16&18&20		Right Tilt	0	190	836.6	0.05	0.049	29.93	31.00	1.278	0.063	/
<b>Body-Worn</b>													
Ant.1	state11	GPRS (2slots)	Front Side	15	251	848.8	0.01	0.074	29.85	31.00	1.302	0.096	/
	state11		Back Side	15	251	848.8	0.14	0.096	29.85	31.00	1.302	0.125	/
Ant.0	state11	GPRS (2slots)	Front Side	15	190	836.6	0.19	0.079	29.93	31.00	1.278	0.101	/
	state11		Back Side	15	190	836.6	-0.07	0.110	29.93	31.00	1.278	<b>0.141</b>	2#
<b>Hotspot</b>													
Ant.1	state15&17&19	GPRS (2slots)	Front Side	10	251	848.8	-0.19	0.159	29.85	31.00	1.302	0.207	/
	state15&17&19		Back Side	10	251	848.8	-0.01	0.249	29.85	31.00	1.302	<b>0.324</b>	3#
	state15&17&19		Right Edge	10	251	848.8	-0.04	0.102	29.85	31.00	1.302	0.133	/
	state15&17&19		Top Edge	10	251	848.8	-0.18	0.166	29.85	31.00	1.302	0.216	/
Ant.0	state15&17&19	GPRS (2slots)	Front Side	10	190	836.6	-0.09	0.109	29.93	31.00	1.278	0.139	/
	state15&17&19		Back Side	10	190	836.6	-0.03	0.134	29.93	31.00	1.278	0.171	/
	state15&17&19		Left Edge	10	190	836.6	0.18	0.062	29.93	31.00	1.278	0.079	/
	state15&17&19		Right Edge	10	190	836.6	-0.19	0.094	29.93	31.00	1.278	0.120	/
	state15&17&19		Bottom Edge	10	190	836.6	-0.12	0.162	29.93	31.00	1.278	0.207	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													



**10.2GSM 1900**

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>													
Ant.1	state12	GPRS (4slots)	Left Cheek	0	810	1909.8	-0.11	0.314	21.66	22.00	1.081	0.340	/
	state12		Left Tilt	0	810	1909.8	-0.12	0.375	21.66	22.00	1.081	0.406	/
	state12		Right Cheek	0	810	1909.8	-0.16	0.489	21.66	22.00	1.081	0.529	/
	state12		Right Tilt	0	810	1909.8	0.05	1.060	21.66	22.00	1.081	1.146	/
	state12			0	512	1850.2	0.05	1.040	21.52	22.00	1.117	1.162	/
	state12			0	661	1880.0	0.01	1.020	21.39	22.00	1.151	<b>1.174</b>	<b>4#</b>
Ant.1	state16&18&20	GPRS (4slots)	Left Cheek	0	512	1850.2	0.17	0.097	17.07	17.50	1.105	0.107	/
	state16&18&20		Left Tilt	0	512	1850.2	0.15	0.120	17.07	17.50	1.105	0.133	/
	state16&18&20		Right Cheek	0	512	1850.2	-0.07	0.148	17.07	17.50	1.105	0.163	/
	state16&18&20		Right Tilt	0	512	1850.2	0.08	0.329	17.07	17.50	1.105	0.363	/
Ant.0	state12&16&18&20	GPRS (4slots)	Left Cheek	0	512	1850.2	0.11	0.052	24.95	25.00	1.013	0.053	/
	state12&16&18&20		Left Tilt	0	512	1850.2	-0.04	0.047	24.95	25.00	1.013	0.047	/
	state12&16&18&20		Right Cheek	0	512	1850.2	0.03	0.045	24.95	25.00	1.013	0.046	/
	state12&16&18&20		Right Tilt	0	512	1850.2	-0.14	0.038	24.95	25.00	1.013	0.039	/
<b>Body -Worn</b>													
Ant.1	state11	GPRS (4slots)	Front Side	15	810	1909.8	0.10	0.197	24.98	25.00	1.005	0.198	/
	state11		Back Side	15	810	1909.8	0.15	0.222	24.98	25.00	1.005	0.223	/
Ant.0	state11	GPRS (4slots)	Front Side	15	512	1850.2	0.11	0.172	24.95	25.00	1.013	0.174	/
	state11		Back Side	15	512	1850.2	0.05	0.265	24.95	25.00	1.013	<b>0.268</b>	<b>5#</b>
<b>Hotspot</b>													
Ant.1	state15&19	GPRS (4slots)	Front Side	10	810	1909.8	0.00	0.523	24.98	25.00	1.005	0.525	/
	state15&19		Back Side	10	810	1909.8	-0.08	0.648	24.98	25.00	1.005	0.651	/
	state15&19		Right Edge	10	810	1909.8	0.11	0.138	24.98	25.00	1.005	0.139	/
	state15&19		Top Edge	10	810	1909.8	-0.08	0.878	24.98	25.00	1.005	<b>0.882</b>	<b>6#</b>
	state15&19			10	512	1850.2	0.09	0.636	24.95	25.00	1.012	0.643	/
	state15&19			10	661	1880.0	0.15	0.749	24.89	25.00	1.026	0.768	/
Ant.1	state17	GPRS (3slots)	Front Side	10	512	1850.2	-0.07	0.158	25.98	26.00	1.005	0.159	/
	state17		Back Side	10	512	1850.2	0.08	0.206	25.98	26.00	1.005	0.207	/
	state17		Right Edge	10	512	1850.2	-0.18	0.045	25.98	26.00	1.005	0.045	/
	state17		Top Edge	10	512	1850.2	0.14	0.275	25.98	26.00	1.005	0.276	/
Ant.0	state15&19	GPRS (4slots)	Front Side	10	512	1850.2	0.02	0.264	24.95	25.00	1.013	0.267	/
	state15&19		Back Side	10	512	1850.2	0.11	0.452	24.95	25.00	1.013	0.458	/
	state15&19		Left Edge	10	512	1850.2	-0.01	0.123	24.95	25.00	1.013	0.125	/
	state15&19		Right Edge	10	512	1850.2	0.07	0.083	24.95	25.00	1.013	0.084	/
	state15&19		Bottom Edge	10	512	1850.2	-0.10	0.592	24.95	25.00	1.013	0.599	/
Ant.0	state17	GPRS (4slots)	Front Side	10	810	1909.8	-0.19	0.160	23.04	23.50	1.111	0.178	/
	state17		Back Side	10	810	1909.8	0.07	0.281	23.04	23.50	1.111	0.312	/
	state17		Left Edge	10	810	1909.8	-0.15	0.079	23.04	23.50	1.111	0.088	/
	state17		Right Edge	10	810	1909.8	0.18	0.054	23.04	23.50	1.111	0.060	/

	state17		Bottom Edge	10	810	1909.8	0.08	0.377	23.04	23.50	1.111	0.419	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

## 10.3WCDMA Band 2

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>													
Ant.1	state12	RMC	Left Cheek	0	9400	1880.0	-0.03	0.494	17.82	18.00	1.042	0.515	/
	state12		Left Tilt	0	9400	1880.0	0.01	0.597	17.82	18.00	1.042	0.622	/
	state12		Right Cheek	0	9400	1880.0	0.15	0.681	17.82	18.00	1.042	0.710	/
	state12		Right Tilt	0	9400	1880.0	0.10	0.948	17.82	18.00	1.042	0.988	/
	state12			0	9262	1852.4	-0.06	0.942	17.79	18.00	1.050	0.989	/
	state12			0	9538	1907.6	0.03	0.962	17.65	18.00	1.084	<b>1.043</b>	<b>7#</b>
Ant.1	state16	RMC	Left Cheek	0	9400	1880.0	-0.04	0.360	16.35	16.50	1.035	0.373	/
	state16		Left Tilt	0	9400	1880.0	0.05	0.429	16.35	16.50	1.035	0.444	/
	state16		Right Cheek	0	9400	1880.0	0.14	0.479	16.35	16.50	1.035	0.496	/
	state16		Right Tilt	0	9400	1880.0	-0.02	0.640	16.35	16.50	1.035	0.662	/
Ant.1	state18&20	RMC	Left Cheek	0	9400	1880.0	-0.04	0.100	10.90	11.00	1.023	0.102	/
	state18&20		Left Tilt	0	9400	1880.0	0.07	0.124	10.90	11.00	1.023	0.127	/
	state18&20		Right Cheek	0	9400	1880.0	-0.17	0.136	10.90	11.00	1.023	0.139	/
	state18&20		Right Tilt	0	9400	1880.0	-0.11	0.187	10.90	11.00	1.023	0.191	/
Ant.0	state12&16&18&20	RMC	Left Cheek	0	9400	1880.0	0.13	0.123	23.75	24.00	1.059	0.130	/
	state12&16&18&20		Left Tilt	0	9400	1880.0	0.18	0.148	23.75	24.00	1.059	0.157	/
	state12&16&18&20		Right Cheek	0	9400	1880.0	0.11	0.098	23.75	24.00	1.059	0.104	/
	state12&16&18&20		Right Tilt	0	9400	1880.0	-0.16	0.144	23.75	24.00	1.059	0.153	/
<b>Body -Worn</b>													
Ant.1	state11	RMC	Front Side	15	9400	1880.0	0.04	0.141	19.57	20.00	1.104	0.156	/
	state11		Back Side	15	9400	1880.0	-0.14	0.163	19.57	20.00	1.104	0.180	/
Ant.0	state11	RMC	Front Side	15	9400	1880.0	0.11	0.160	20.90	21.00	1.023	0.163	/
	state11		Back Side	15	9400	1880.0	0.03	0.216	20.90	21.00	1.023	<b>0.221</b>	<b>8#</b>
<b>Hotspot</b>													
Ant.1	state15&17&19	RMC	Front Side	10	9400	1880.0	0.02	0.262	19.57	20.00	1.104	0.289	/
	state15&17&19		Back Side	10	9400	1880.0	0.02	0.307	19.57	20.00	1.104	0.339	/
	state15&17&19		Right Edge	10	9400	1880.0	-0.16	0.065	19.57	20.00	1.104	0.072	/
	state15&17&19		Top Edge	10	9400	1880.0	-0.05	0.488	19.57	20.00	1.104	0.539	/
Ant.0	state15&17&19	RMC	Front Side	10	9400	1880.0	0.09	0.263	20.90	21.00	1.023	0.269	/
	state15&17&19		Back Side	10	9400	1880.0	0.11	0.457	20.90	21.00	1.023	0.468	/
	state15&17&19		Left Edge	10	9400	1880.0	-0.18	0.101	20.90	21.00	1.023	0.103	/
	state15&17&19		Right Edge	10	9400	1880.0	0.18	0.065	20.90	21.00	1.023	0.067	/
	state15&17&19		Bottom Edge	10	9400	1880.0	0.07	0.604	20.90	21.00	1.023	<b>0.618</b>	<b>9#</b>
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Specific</b>													
Ant.1	state11&15&17&19	RMC	Front Side	0	9400	1880.0	0.00	0.781	19.57	20.00	1.104	0.862	/
	state11&15&17&19		Back Side	0	9400	1880.0	-0.10	0.829	19.57	20.00	1.104	0.915	/
	state11&15&17&19		Right Edge	0	9400	1880.0	-0.03	0.128	19.57	20.00	1.104	0.141	/
	state11&15&17&19		Top Edge	0	9400	1880.0	-0.18	1.420	19.57	20.00	1.104	<b>1.568</b>	10#
Ant.0	state11&15&17&19	RMC	Front Side	0	9400	1880.0	0.14	0.845	20.90	21.00	1.023	0.865	/
	state11&15&17&19		Back Side	0	9400	1880.0	-0.19	1.480	20.90	21.00	1.023	1.514	/
	state11&15&17&19		Left Edge	0	9400	1880.0	-0.04	0.298	20.90	21.00	1.023	0.305	/
	state11&15&17&19		Right Edge	0	9400	1880.0	0.12	0.094	20.90	21.00	1.023	0.096	/

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

### 10.4WCDMA Band 4

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>													
Ant.1	state12	RMC	Left Cheek	0	1513	1752.6	-0.01	0.464	17.75	18.00	1.059	0.491	/
	state12		Left Tilt	0	1513	1752.6	0.12	0.575	17.75	18.00	1.059	0.609	/
	state12		Right Cheek	0	1513	1752.6	0.03	0.637	17.75	18.00	1.059	0.675	/
	state12		Right Tilt	0	1513	1752.6	-0.01	0.903	17.75	18.00	1.059	0.957	/
				0	1412	1732.4	0.12	0.883	17.53	18.00	1.114	<b>0.984</b>	11#
	state12		0	1312	1712.4	-0.17	0.827	17.72	18.00	1.067	0.882	/	
Ant.1	state16	RMC	Left Cheek	0	1412	1732.4	-0.12	0.315	16.33	16.50	1.040	0.328	/
	state16		Left Tilt	0	1412	1732.4	0.10	0.414	16.33	16.50	1.040	0.431	/
	state16		Right Cheek	0	1412	1732.4	0.19	0.453	16.33	16.50	1.040	0.471	/
	state16		Right Tilt	0	1412	1732.4	0.07	0.635	16.33	16.50	1.040	0.660	/
Ant.1	state18&20	RMC	Left Cheek	0	1513	1752.6	0.10	0.085	10.87	11.00	1.030	0.088	/
	state18&20		Left Tilt	0	1513	1752.6	-0.02	0.111	10.87	11.00	1.030	0.114	/
	state18&20		Right Cheek	0	1513	1752.6	0.09	0.131	10.87	11.00	1.030	0.135	/
	state18&20		Right Tilt	0	1513	1752.6	-0.05	0.176	10.87	11.00	1.030	0.181	/
Ant.0	state12&16&18&20	RMC	Left Cheek	0	1513	1752.6	0.01	0.113	23.53	24.00	1.114	0.126	/
	state12&16&18&20		Left Tilt	0	1513	1752.6	0.17	0.089	23.53	24.00	1.114	0.099	/
	state12&16&18&20		Right Cheek	0	1513	1752.6	0.06	0.107	23.53	24.00	1.114	0.119	/
	state12&16&18&20		Right Tilt	0	1513	1752.6	0.13	0.088	23.53	24.00	1.114	0.098	/
<b>Body -Worn</b>													
Ant.1	state11	RMC	Front Side	15	1412	1732.4	-0.03	0.127	19.33	20.00	1.167	0.148	/
	state11		Back Side	15	1412	1732.4	0.11	0.139	19.33	20.00	1.167	0.162	/
Ant.0	state11	RMC	Front Side	15	1412	1732.4	-0.15	0.127	20.80	21.00	1.047	0.133	/
	state11		Back Side	15	1412	1732.4	0.04	0.196	20.80	21.00	1.047	<b>0.205</b>	12#

Hotspot													
Ant.1	state15&17&19	RMC	Front Side	10	1412	1732.4	0.10	0.253	19.33	20.00	1.167	0.295	/
	state15&17&19		Back Side	10	1412	1732.4	0.04	0.276	19.33	20.00	1.167	0.322	/
	state15&17&19		Right Edge	10	1412	1732.4	0.14	0.059	19.33	20.00	1.167	0.069	/
	state15&17&19		Top Edge	10	1412	1732.4	0.13	0.430	19.33	20.00	1.167	0.502	/
Ant.0	state15&17&19	RMC	Front Side	10	1412	1732.4	0.12	0.269	20.80	21.00	1.047	0.282	/
	state15&17&19		Back Side	10	1412	1732.4	-0.18	0.409	20.80	21.00	1.047	0.428	/
	state15&17&19		Left Edge	10	1412	1732.4	0.09	0.090	20.80	21.00	1.047	0.094	/
	state15&17&19		Right Edge	10	1412	1732.4	-0.16	0.053	20.80	21.00	1.047	0.055	/
	state15&17&19		Bottom Edge	10	1412	1732.4	-0.07	0.707	20.80	21.00	1.047	<b>0.740</b>	13#

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

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Specific</b>													
Ant.1	state11&15&17&19	RMC	Front Side	0	1412	1732.4	0.14	0.829	19.33	20.00	1.167	0.967	/
	state11&15&17&19		Back Side	0	1412	1732.4	-0.11	0.886	19.33	20.00	1.167	1.034	/
	state11&15&17&19		Right Edge	0	1412	1732.4	0.13	0.117	19.33	20.00	1.167	0.137	/
	state11&15&17&19		Top Edge	0	1412	1732.4	-0.06	1.230	19.33	20.00	1.167	1.435	/
Ant.0	state11&15&17&19	RMC	Front Side	0	1412	1732.4	-0.12	1.020	20.80	21.00	1.047	1.068	/
	state11&15&17&19		Back Side	0	1412	1732.4	-0.07	1.540	20.80	21.00	1.047	1.613	/
	state11&15&17&19		Left Edge	0	1412	1732.4	0.11	0.224	20.80	21.00	1.047	0.235	/
	state11&15&17&19		Right Edge	0	1412	1732.4	-0.01	0.077	20.80	21.00	1.047	0.081	/
	state11&15&17&19		Bottom Edge	0	1412	1732.4	0.04	1.750	20.80	21.00	1.047	<b>1.832</b>	14#

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

### 10.5WCDMA Band 5

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>													
Ant.1	state12	RMC	Left Cheek	0	4132	826.4	-0.07	0.553	22.75	23.50	1.189	0.657	/
	state12		Left Tilt	0	4132	826.4	0.11	0.496	22.75	23.50	1.189	0.589	/
	state12		Right Cheek	0	4132	826.4	0.02	0.618	22.75	23.50	1.189	<b>0.734</b>	15#
	state12		Right Tilt	0	4132	826.4	0.03	0.584	22.75	23.50	1.189	0.694	/
Ant.1	state16	RMC	Left Cheek	0	4182	836.4	-0.04	0.493	22.49	23.00	1.125	0.554	/
	state16		Left Tilt	0	4182	836.4	0.01	0.451	22.49	23.00	1.125	0.507	/
	state16		Right Cheek	0	4182	836.4	0.13	0.560	22.49	23.00	1.125	0.630	/
	state16		Right Tilt	0	4182	836.4	0.10	0.530	22.49	23.00	1.125	0.596	/
Ant.1	state18	RMC	Left Cheek	0	4182	836.4	-0.10	0.141	16.99	17.50	1.125	0.159	/
	state18		Left Tilt	0	4182	836.4	0.05	0.128	16.99	17.50	1.125	0.144	/

	state18		Right Cheek	0	4182	836.4	-0.12	0.156	16.99	17.50	1.125	0.175	/
	state18		Right Tilt	0	4182	836.4	-0.16	0.145	16.99	17.50	1.125	0.163	/
Ant.1	state20	RMC	Left Cheek	0	4182	836.4	-0.08	0.174	17.91	18.50	1.146	0.199	/
	state20		Left Tilt	0	4182	836.4	-0.13	0.149	17.91	18.50	1.146	0.171	/
	state20		Right Cheek	0	4182	836.4	0.11	0.195	17.91	18.50	1.146	0.223	/
	state20		Right Tilt	0	4182	836.4	-0.10	0.183	17.91	18.50	1.146	0.210	/
	state20												
Ant.0	state12&16&18&20	RMC	Left Cheek	0	4132	826.4	0.12	0.146	23.74	24.50	1.191	0.174	/
	state12&16&18&20		Left Tilt	0	4132	826.4	-0.01	0.073	23.74	24.50	1.191	0.087	/
	state12&16&18&20		Right Cheek	0	4132	826.4	0.11	0.121	23.74	24.50	1.191	0.144	/
	state12&16&18&20		Right Tilt	0	4132	826.4	0.08	0.065	23.74	24.50	1.191	0.077	/
<b>Body -Worn</b>													
Ant.1	state11	RMC	Front Side	15	4132	826.4	0.10	0.112	23.50	24.50	1.259	0.141	/
	state11		Back Side	15	4132	826.4	0.14	0.129	23.50	24.50	1.259	<b>0.162</b>	16#
Ant.0	state11	RMC	Front Side	15	4132	826.4	0.13	0.096	23.74	24.50	1.191	0.114	/
	state11		Back Side	15	4132	826.4	0.13	0.111	23.74	24.50	1.191	0.132	/
<b>Hotspot</b>													
Ant.1	state15&17&19	RMC	Front Side	10	4132	826.4	0.15	0.182	23.50	24.50	1.259	0.229	/
	state15&17&19		Back Side	10	4132	826.4	-0.15	0.253	23.50	24.50	1.259	<b>0.319</b>	17#
	state15&17&19		Right Edge	10	4132	826.4	0.05	0.120	23.50	24.50	1.259	0.151	/
	state15&17&19		Top Edge	10	4132	826.4	-0.10	0.233	23.50	24.50	1.259	0.293	/
Ant.0	state15&17&19	RMC	Front Side	10	4132	826.4	-0.03	0.121	23.74	24.50	1.191	0.144	/
	state15&17&19		Back Side	10	4132	826.4	-0.09	0.161	23.74	24.50	1.191	0.192	/
	state15&17&19		Left Edge	10	4132	826.4	-0.12	0.075	23.74	24.50	1.191	0.089	/
	state15&17&19		Right Edge	10	4132	826.4	-0.09	0.111	23.74	24.50	1.191	0.132	/
	state15&17&19		Bottom Edge	10	4132	826.4	0.17	0.156	23.74	24.50	1.191	0.186	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

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

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.			
<b>Head</b>																			
Ant.1	state12	QPSK	SA	Left Cheek	0	18900	1880	1	Low	-0.16	0.496	18.89	19.50	1.151	0.571	/			
	state12				0	18900	1880	50	Mid	0.05	0.509	18.95	19.50	1.135	0.578	/			
	state12			Left Tilt	0	18900	1880	1	Low	0.01	0.603	18.89	19.50	1.151	0.694	/			
	state12				0	18900	1880	50	Mid	-0.15	0.628	18.95	19.50	1.135	0.713	/			
	state12			Right Cheek	0	18900	1880	1	Low	-0.08	0.836	18.89	19.50	1.151	0.962	/			
	state12				0	18700	1860	1	Low	-0.13	0.823	18.87	19.50	1.156	0.951	/			
	state12				0	19100	1900	1	Mid	0.03	0.818	18.85	19.50	1.161	0.950	/			
	state12				0	18900	1880	50	Mid	0.19	0.854	18.95	19.50	1.135	0.969	/			
	state12				0	18700	1860	50	Mid	0.12	0.835	18.94	19.50	1.138	0.950	/			
	state12				0	19100	1900	50	Mid	0.12	0.829	18.93	19.50	1.140	0.945	/			
	state12			Right Tilt	0	18700	1860	100	Low	0.02	0.826	18.95	19.50	1.135	0.938	/			
	state12				0	18900	1880	1	Low	-0.08	0.945	18.89	19.50	1.151	1.088	/			
	state12				0	18700	1860	1	Low	-0.19	0.950	18.87	19.50	1.156	1.098	/			
	state12				0	19100	1900	1	Mid	-0.01	0.966	18.85	19.50	1.161	<b>1.122</b>	<b>18#</b>			
	state12				0	18900	1880	50	Mid	-0.12	0.975	18.95	19.50	1.135	1.107	/			
	state12				0	18700	1860	50	Mid	0.11	0.981	18.94	19.50	1.138	1.116	/			
	Ant.1			state16	QPSK	SA	Left Cheek	0	18900	1880	1	Mid	0.01	0.403	17.64	18.50	1.219	0.491	/
				state16				0	18900	1880	50	High	0.14	0.418	17.79	18.50	1.178	0.492	/
state16		Left Tilt	0	18900			1880	1	Mid	-0.16	0.478	17.64	18.50	1.219	0.583	/			
state16			0	18900			1880	50	High	0.05	0.512	17.79	18.50	1.178	0.603	/			
state16		Right Cheek	0	18900			1880	1	Mid	0.01	0.627	17.64	18.50	1.219	0.764	/			
state16			0	18900			1880	50	High	0.00	0.634	17.79	18.50	1.178	0.747	/			
state16		Right Tilt	0	18900			1880	1	Mid	-0.08	0.737	17.64	18.50	1.219	0.898	/			
state16			0	18900			1880	50	High	-0.14	0.769	17.79	18.50	1.178	0.906	/			
Ant.1	state18&20	QPSK	SA	Left Cheek	0	18900	1880	1	High	0.14	0.135	13.42	14.00	1.143	0.154	/			
	state18&20				0	18900	1880	50	High	0.12	0.148	13.52	14.00	1.117	0.165	/			
	state18&20			Left Tilt	0	18900	1880	1	High	-0.14	0.165	13.42	14.00	1.143	0.189	/			
	state18&20				0	18900	1880	50	High	0.09	0.179	13.52	14.00	1.117	0.200	/			
	state18&20			Right Cheek	0	18900	1880	1	High	0.10	0.224	13.42	14.00	1.143	0.256	/			
	state18&20				0	18900	1880	50	High	-0.18	0.235	13.52	14.00	1.117	0.262	/			
	state18&20			Right Tilt	0	18900	1880	1	High	-0.18	0.266	13.42	14.00	1.143	0.304	/			
	state18&20				0	18900	1880	50	High	-0.10	0.284	13.52	14.00	1.117	0.317	/			
Ant.1	state12	QPSK	NSA	Left Cheek	0	18900	1880	1	Low	-0.03	0.220	15.65	16.00	1.084	0.238	/			
	state12				0	18900	1880	50	Low	0.09	0.233	15.63	16.00	1.089	0.254	/			
	state12			Left Tilt	0	18900	1880	1	Low	0.16	0.263	15.65	16.00	1.084	0.285	/			
	state12				0	18900	1880	50	Low	0.03	0.288	15.63	16.00	1.089	0.314	/			
	state12			Right Cheek	0	18900	1880	1	Low	-0.17	0.351	15.65	16.00	1.084	0.380	/			

	state12				0	18900	1880	50	Low	-0.09	0.361	15.63	16.00	1.089	0.393	/
	state12			Right Tilt	0	18900	1880	1	Low	-0.15	0.417	15.65	16.00	1.084	0.452	/
	state12				0	18900	1880	50	Low	0.15	0.428	15.63	16.00	1.089	0.466	/
Ant.1	state16&20	QPSK	NSA	Left Cheek	0	18900	1880	1	High	0.14	0.135	13.42	14.00	1.143	0.154	/
	0				18900	1880	50	High	0.12	0.148	13.52	14.00	1.117	0.165	/	
	state16&20			Left Tilt	0	18900	1880	1	High	-0.14	0.165	13.42	14.00	1.143	0.189	/
	state16&20				0	18900	1880	50	High	0.09	0.179	13.52	14.00	1.117	0.200	/
	state16&20			Right Cheek	0	18900	1880	1	High	0.10	0.224	13.42	14.00	1.143	0.256	/
	state16&20				0	18900	1880	50	High	-0.18	0.235	13.52	14.00	1.117	0.262	/
	state16&20			Right Tilt	0	18900	1880	1	High	-0.18	0.266	13.42	14.00	1.143	0.304	/
	state16&20				0	18900	1880	50	High	-0.10	0.284	13.52	14.00	1.117	0.317	/
Ant.1	state18	QPSK	NSA	Left Cheek	0	18900	1880	1	Low	-0.13	0.083	11.55	12.00	1.109	0.092	/
	state18				0	18900	1880	50	High	-0.08	0.093	11.59	12.00	1.099	0.102	/
	state18			Left Tilt	0	18900	1880	1	Low	0.02	0.104	11.55	12.00	1.109	0.115	/
	state18				0	18900	1880	50	High	-0.15	0.110	11.59	12.00	1.099	0.121	/
	state18			Right Cheek	0	18900	1880	1	Low	-0.18	0.143	11.55	12.00	1.109	0.159	/
	state18				0	18900	1880	50	High	0.08	0.150	11.59	12.00	1.099	0.165	/
	state18			Right Tilt	0	18900	1880	1	Low	0.19	0.170	11.55	12.00	1.109	0.189	/
	state18				0	18900	1880	50	High	-0.07	0.171	11.59	12.00	1.099	0.188	/
Ant.0	state12&16&18&20	QPSK	SA	Left Cheek	0	19100	1900	1	Mid	-0.09	0.103	22.52	23.50	1.253	0.129	/
	state12&16&18&20				0	19100	1900	50	Mid	-0.07	0.083	21.64	22.50	1.219	0.101	/
	state12&16&18&20			Left Tilt	0	19100	1900	1	Mid	0.08	0.103	22.52	23.50	1.253	0.129	/
	state12&16&18&20				0	19100	1900	50	Mid	-0.02	0.084	21.64	22.50	1.219	0.102	/
	state12&16&18&20			Right Cheek	0	19100	1900	1	Mid	0.14	0.088	22.52	23.50	1.253	0.110	/
	state12&16&18&20				0	19100	1900	50	Mid	-0.19	0.067	21.64	22.50	1.219	0.082	/
	state12&16&18&20			Right Tilt	0	19100	1900	1	Mid	0.07	0.130	22.52	23.50	1.253	0.163	/
	state12&16&18&20				0	19100	1900	50	Mid	0.11	0.104	21.64	22.50	1.219	0.127	/
Ant.3	state12	QPSK	NSA	Left Cheek	0	18900	1880	1	High	-0.04	0.012	20.66	22.50	1.528	0.018	/
	state12				0	18900	1880	50	High	0.11	0.014	20.77	22.50	1.489	0.021	/
	state12			Left Tilt	0	18900	1880	1	High	-0.18	0.009	20.66	22.50	1.528	0.014	/
	state12				0	18900	1880	50	High	-0.08	0.010	20.77	22.50	1.489	0.015	/
	state12			Right Cheek	0	18900	1880	1	High	0.08	0.005	20.66	22.50	1.528	0.008	/
	state12				0	18900	1880	50	High	-0.03	0.007	20.77	22.50	1.489	0.010	/
	state12			Right Tilt	0	18900	1880	1	High	0.14	0.008	20.66	22.50	1.528	0.012	/
	state12				0	18900	1880	50	High	-0.07	0.009	20.77	22.50	1.489	0.013	/
Ant.3	state16&20	QPSK	NSA	Left Cheek	0	18900	1880	1	High	-0.04	0.012	20.66	22.00	1.361	0.016	/
	state16&20				0	18900	1880	50	High	0.11	0.014	20.77	22.00	1.327	0.019	/
	state16&20			Left Tilt	0	18900	1880	1	High	-0.18	0.009	20.66	22.00	1.361	0.012	/
	state16&20				0	18900	1880	50	High	-0.08	0.010	20.77	22.00	1.327	0.013	/
	state16&20			Right Cheek	0	18900	1880	1	High	0.08	0.005	20.66	22.00	1.361	0.007	/
	state16&20				0	18900	1880	50	High	-0.03	0.007	20.77	22.00	1.327	0.009	/
	state16&20			Right Tilt	0	18900	1880	1	High	0.14	0.008	20.66	22.00	1.361	0.011	/
	state16&20				0	18900	1880	50	High	-0.07	0.009	20.77	22.00	1.327	0.012	/
Ant.3	state18	QPSK	NSA	Left Cheek	0	18900	1880	1	High	-0.04	0.012	20.66	21.50	1.213	0.015	/
	state18				0	18900	1880	50	High	0.11	0.014	20.77	21.50	1.183	0.017	/



	state18			Left Tilt	0	18900	1880	1	High	-0.18	0.009	20.66	21.50	1.213	0.011	/
	state18				0	18900	1880	50	High	-0.08	0.010	20.77	21.50	1.183	0.012	/
	state18			Right Cheek	0	18900	1880	1	High	0.08	0.005	20.66	21.50	1.213	0.006	/
	state18				0	18900	1880	50	High	-0.03	0.007	20.77	21.50	1.183	0.008	/
	state18			Right Tilt	0	18900	1880	1	High	0.14	0.008	20.66	21.50	1.213	0.010	/
	state18				0	18900	1880	50	High	-0.07	0.009	20.77	21.50	1.183	0.011	/
<b>Body-worn</b>																
Ant.1	state11	QPSK	SA	Front Side	15	18900	1880	1	Low	-0.03	0.106	18.89	19.50	1.151	0.122	/
	state11				15	18900	1880	50	Mid	-0.09	0.107	18.95	19.50	1.135	0.121	/
	state11			Back Side	15	18900	1880	1	Low	0.06	0.131	18.89	19.50	1.151	0.151	/
	state11				15	18900	1880	50	Mid	0.18	0.136	18.95	19.50	1.135	0.154	/
Ant.1	state11	QPSK	NSA	Front Side	15	18900	1880	1	Low	-0.03	0.106	18.89	20.00	1.291	0.137	/
	state11				15	18900	1880	50	Low	-0.09	0.107	18.95	20.00	1.274	0.136	/
	state11			Back Side	15	18900	1880	1	Low	0.06	0.131	18.89	20.00	1.291	0.169	/
	state11				15	18900	1880	50	Low	0.18	0.136	18.95	20.00	1.274	0.173	/
Ant.0	state11	QPSK	SA	Front Side	15	18900	1880	1	Low	0.03	0.089	19.63	20.50	1.222	0.109	/
	state11				15	18900	1880	50	Mid	-0.08	0.092	19.63	20.50	1.222	0.112	/
	state11			Back Side	15	18900	1880	1	Low	-0.01	0.170	19.63	20.50	1.222	0.208	/
	state11				15	18900	1880	50	Mid	-0.07	0.175	19.63	20.50	1.222	<b>0.214</b>	<b>19#</b>
Ant.3	state11	QPSK	NSA	Front Side	15	18900	1880	1	Low	0.19	0.008	23.05	23.50	1.109	0.009	/
	state11				15	18900	1880	50	Mid	0.10	0.006	22.16	22.50	1.081	0.006	/
	state11			Back Side	15	18900	1880	1	Low	0.03	0.013	23.05	23.50	1.109	0.014	/
	state11				15	18900	1880	50	Mid	-0.08	0.011	22.16	22.50	1.081	0.012	/
<b>Hotspot</b>																
Ant.1	state15	QPSK	SA	Front Side	10	18900	1880	1	Low	0.13	0.173	18.89	19.50	1.151	0.199	/
	state15				10	18900	1880	50	Mid	-0.16	0.183	18.95	19.50	1.135	0.208	/
	state15			Back Side	10	18900	1880	1	Low	-0.17	0.203	18.89	19.50	1.151	0.234	/
	state15				10	18900	1880	50	Mid	0.16	0.209	18.95	19.50	1.135	0.237	/
	state15			Right Edge	10	18900	1880	1	Low	-0.07	0.038	18.89	19.50	1.151	0.044	/
	state15				10	18900	1880	50	Mid	0.13	0.044	18.95	19.50	1.135	0.050	/
	state15			Top Edge	10	18900	1880	1	Low	0.00	0.331	18.89	19.50	1.151	0.381	/
	state15				10	18900	1880	50	Mid	0.07	0.334	18.95	19.50	1.135	0.379	/
Ant.1	state17&19	QPSK	SA	Front Side	10	18900	1880	1	High	-0.06	0.132	17.64	18.50	1.219	0.161	/
	state17&19				10	18900	1880	50	High	0.15	0.145	17.79	18.50	1.178	0.171	/
	state17&19			Back Side	10	18900	1880	1	High	-0.13	0.157	17.64	18.50	1.219	0.191	/
	state17&19				10	18900	1880	50	High	0.16	0.163	17.79	18.50	1.178	0.192	/
	state17&19			Right Edge	10	18900	1880	1	High	0.02	0.029	17.64	18.50	1.219	0.035	/
	state17&19				10	18900	1880	50	High	-0.09	0.035	17.79	18.50	1.178	0.041	/
	state17&19			Top Edge	10	18900	1880	1	High	0.14	0.255	17.64	18.50	1.219	0.311	/
	state17&19				10	18900	1880	50	High	0.05	0.268	17.79	18.50	1.178	0.316	/
Ant.1	state15&19	QPSK	NSA	Front Side	10	18900	1880	1	High	-0.06	0.132	17.64	18.50	1.219	0.161	/
	state15&19				10	18900	1880	50	High	0.15	0.145	17.79	18.50	1.178	0.171	/
	state15&19			Back Side	10	18900	1880	1	High	-0.13	0.157	17.64	18.50	1.219	0.191	/
	state15&19				10	18900	1880	50	High	0.16	0.163	17.79	18.50	1.178	0.192	/
	state15&19			Right Edge	10	18900	1880	1	High	0.02	0.029	17.64	18.50	1.219	0.035	/

	state15&19			Top Edge	10	18900	1880	50	High	-0.09	0.035	17.79	18.50	1.178	0.041	/
	state15&19				10	18900	1880	1	High	0.14	0.255	17.64	18.50	1.219	0.311	/
	state15&19				10	18900	1880	50	High	0.05	0.268	17.79	18.50	1.178	0.316	/
Ant.1	state17	QPSK	NSA	Front Side	10	18900	1880	1	Low	0.19	0.080	15.65	16.50	1.216	0.097	/
	state17				10	18900	1880	50	Low	-0.06	0.091	15.63	16.50	1.222	0.111	/
	state17			Back Side	10	18900	1880	1	Low	-0.04	0.099	15.65	16.50	1.216	0.120	/
	state17				10	18900	1880	50	Low	-0.16	0.102	15.63	16.50	1.222	0.125	/
	state17			Right Edge	10	18900	1880	1	Low	-0.10	0.019	15.65	16.50	1.216	0.023	/
	state17				10	18900	1880	50	Low	0.01	0.023	15.63	16.50	1.222	0.028	/
	state17			Top Edge	10	18900	1880	1	Low	0.04	0.162	15.65	16.50	1.216	0.197	/
	state17				10	18900	1880	50	Low	0.16	0.166	15.63	16.50	1.222	0.203	/
Ant.0	state15	QPSK	SA	Front Side	10	18900	1880	1	Low	0.14	0.189	19.63	20.50	1.222	0.231	/
	state15				10	18900	1880	50	Mid	0.11	0.193	19.63	20.50	1.222	0.236	/
	state15			Back Side	10	18900	1880	1	Low	-0.04	0.331	19.63	20.50	1.222	0.404	/
	state15				10	18900	1880	50	Mid	-0.19	0.344	19.63	20.50	1.222	0.420	/
	state15			Left Edge	10	18900	1880	1	Low	-0.18	0.090	19.63	20.50	1.222	0.110	/
	state15				10	18900	1880	50	Mid	0.08	0.093	19.63	20.50	1.222	0.114	/
	state15			Right Edge	10	18900	1880	1	Low	-0.01	0.057	19.63	20.50	1.222	0.070	/
	state15				10	18900	1880	50	Mid	-0.11	0.058	19.63	20.50	1.222	0.071	/
	state15			Bottom Edge	10	18900	1880	1	Low	0.03	0.445	19.63	20.50	1.222	0.544	/
	state15				10	18900	1880	50	Mid	-0.09	0.460	19.63	20.50	1.222	0.562	20#
Ant.0	state17&19	QPSK	SA	Front Side	10	18900	1880	1	High	0.13	0.148	18.63	19.50	1.222	0.181	/
	state17&19				10	18900	1880	50	High	-0.05	0.153	18.74	19.50	1.191	0.182	/
	state17&19			Back Side	10	18900	1880	1	High	0.07	0.264	18.63	19.50	1.222	0.323	/
	state17&19				10	18900	1880	50	High	0.06	0.268	18.74	19.50	1.191	0.319	/
	state17&19			Left Edge	10	18900	1880	1	High	0.18	0.072	18.63	19.50	1.222	0.088	/
	state17&19				10	18900	1880	50	High	-0.08	0.074	18.74	19.50	1.191	0.088	/
	state17&19			Right Edge	10	18900	1880	1	High	0.08	0.046	18.63	19.50	1.222	0.056	/
	state17&19				10	18900	1880	50	High	0.00	0.045	18.74	19.50	1.191	0.054	/
	state17&19			Bottom Edge	10	18900	1880	1	High	0.10	0.343	18.63	19.50	1.222	0.419	/
	state17&19				10	18900	1880	50	High	0.05	0.350	18.74	19.50	1.191	0.417	/
Ant.3	state15&17&19	QPSK	NSA	Front Side	10	18900	1880	1	Low	0.05	0.010	23.05	23.50	1.109	0.011	/
	state15&17&19				10	18900	1880	50	Mid	0.15	0.009	22.16	22.50	1.081	0.010	/
	state15&17&19			Back Side	10	18900	1880	1	Low	0.14	0.019	23.05	23.50	1.109	0.021	/
	state15&17&19				10	18900	1880	50	Mid	-0.09	0.016	22.16	22.50	1.081	0.017	/
	state15&17&19			Left Edge	10	18900	1880	1	Low	-0.09	0.022	23.05	23.50	1.109	0.024	/
	state15&17&19				10	18900	1880	50	Mid	-0.05	0.018	22.16	22.50	1.081	0.019	/

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

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

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.			
<b>Head</b>																			
Ant.1	state12	QPSK	SA	Left Cheek	0	20300	1745	1	Low	-0.15	0.511	19.18	19.50	1.076	0.550	/			
	0				20300	1745	50	Low	-0.01	0.528	19.22	19.50	1.067	0.563	/				
	state12			Left Tilt	0	20300	1745	1	Low	0.04	0.614	19.18	19.50	1.076	0.661	/			
	0				20300	1745	50	Low	-0.09	0.639	19.22	19.50	1.067	0.682	/				
	state12			Right Cheek	0	20300	1745	1	Low	-0.12	0.838	19.18	19.50	1.076	0.902	/			
	0				20050	1720	1	Low	-0.19	0.823	19.09	19.50	1.099	0.904	/				
	0				20175	1732.5	1	Low	0.00	0.855	19.15	19.50	1.084	0.927	/				
	0				20300	1745	50	Low	0.18	0.880	19.22	19.50	1.067	0.939	/				
	0				20050	1720	50	Low	-0.01	0.864	19.21	19.50	1.069	0.924	/				
	0				20175	1732.5	50	Low	0.03	0.848	19.17	19.50	1.079	0.915	/				
	state12			Right Tilt	0	20300	1745	100	Low	0.08	0.880	19.17	19.50	1.079	0.949	/			
	0				20050	1720	1	Low	0.01	0.974	19.18	19.50	1.076	1.048	/				
	0				20175	1732.5	1	Low	0.07	0.956	19.09	19.50	1.099	1.051	/				
	0				20300	1745	1	Low	0.13	1.000	19.15	19.50	1.084	1.084	/				
	0				20050	1720	50	Low	-0.11	1.020	19.22	19.50	1.067	1.088	/				
	0				20175	1732.5	50	Low	0.11	0.987	19.21	19.50	1.069	1.055	/				
	state12			Right Tilt	0	20300	1745	50	Low	-0.10	1.030	19.17	19.50	1.079	1.111	21#			
	0				20300	1745	100	Low	-0.13	1.010	19.17	19.50	1.079	1.090	/				
	state16				QPSK	SA	Left Cheek	0	20300	1745	1	High	0.03	0.401	18.14	18.50	1.086	0.436	/
	0							20300	1745	50	Mid	0.09	0.422	18.20	18.50	1.072	0.452	/	
state16	Left Tilt	0	20300	1745			1	High	0.00	0.495	18.14	18.50	1.086	0.538	/				
0		20300	1745	50			Mid	0.06	0.498	18.20	18.50	1.072	0.534	/					
state16	Right Cheek	0	20300	1745			1	High	0.09	0.678	18.14	18.50	1.086	0.737	/				
0		20300	1745	50			Mid	-0.13	0.689	18.20	18.50	1.072	0.738	/					
state16	Right Tilt	0	20300	1745			1	High	-0.19	0.759	18.14	18.50	1.086	0.825	/				
0		20050	1720	1			High	0.05	0.739	17.99	18.50	1.125	0.831	/					
0		20175	1732.5	1			High	-0.01	0.835	18.10	18.50	1.096	0.916	/					
0		20300	1745	50			Mid	-0.12	0.774	18.20	18.50	1.072	0.829	/					
0		20050	1720	50			Mid	-0.07	0.745	18.13	18.50	1.089	0.811	/					
0		20175	1732.5	50			High	0.08	0.856	18.15	18.50	1.084	0.928	/					
state16	Right Tilt	0	20300	1745			100	Low	-0.07	0.828	18.16	18.50	1.081	0.895	/				
state18&20		QPSK	SA	Left Cheek			0	20300	1745	1	High	-0.13	0.161	13.79	14.00	1.050	0.169	/	
0	20300				1745	50	High	-0.03	0.170	13.83	14.00	1.040	0.177	/					
state18&20	Left Tilt			0	20300	1745	1	High	-0.19	0.189	13.79	14.00	1.050	0.198	/				
0				20300	1745	50	High	-0.12	0.192	13.83	14.00	1.040	0.200	/					
state18&20	Right Cheek			0	20300	1745	1	High	0.17	0.266	13.79	14.00	1.050	0.279	/				
0				20300	1745	50	High	-0.15	0.275	13.83	14.00	1.040	0.286	/					
state18&20	Right Tilt			0	20300	1745	1	High	-0.18	0.288	13.79	14.00	1.050	0.302	/				
0				20300	1745	50	High	0.14	0.296	13.83	14.00	1.040	0.308	/					

Ant.0	state12&16&18&20	QPSK	SA	Left Cheek	0	20300	1745	1	Low	-0.15	0.091	23.14	23.50	1.086	0.099	/
	0				20300	1745	50	Mid	0.05	0.075	22.22	22.50	1.067	0.080	/	
	state12&16&18&20			Left Tilt	0	20300	1745	1	Low	0.06	0.064	23.14	23.50	1.086	0.070	/
	0				20300	1745	50	Mid	0.04	0.052	22.22	22.50	1.067	0.055	/	
	state12&16&18&20			Right Cheek	0	20300	1745	1	Low	0.11	0.086	23.14	23.50	1.086	0.093	/
	0				20300	1745	50	Mid	-0.05	0.068	22.22	22.50	1.067	0.073	/	
	state12&16&18&20			Right Tilt	0	20300	1745	1	Low	-0.17	0.077	23.14	23.50	1.086	0.084	/
	0				20300	1745	50	Mid	-0.16	0.061	22.22	22.50	1.067	0.065	/	
<b>Body-worn</b>																
Ant.1	state11	QPSK	SA	Front Side	15	20300	1745	1	Low	0.00	0.110	19.18	19.50	1.076	0.118	/
	15				20300	1745	50	Low	0.18	0.113	19.22	19.50	1.067	0.121	/	
	state11			Back Side	15	20300	1745	1	Low	0.17	0.118	19.18	19.50	1.076	0.127	/
	15				20300	1745	50	Low	-0.08	0.121	19.22	19.50	1.067	0.129	/	
Ant.0	state11	QPSK	SA	Front Side	15	20300	1745	1	Low	0.15	0.107	20.06	20.50	1.107	0.118	/
	15				20300	1745	50	Mid	0.01	0.109	20.28	20.50	1.052	0.115	/	
	state11			Back Side	15	20300	1745	1	Low	0.05	0.157	20.06	20.50	1.107	<b>0.174</b>	22#
	15				20300	1745	50	Mid	-0.01	0.164	20.28	20.50	1.052	0.173	/	
<b>Hotspot</b>																
Ant.1	state15	QPSK	SA	Front Side	10	20300	1745	1	Low	0.01	0.209	19.18	19.50	1.076	0.225	/
	10				20300	1745	50	Low	0.10	0.221	19.22	19.50	1.067	0.236	/	
	state15			Back Side	10	20300	1745	1	Low	0.05	0.174	19.18	19.50	1.076	0.187	/
	10				20300	1745	50	Low	0.18	0.178	19.22	19.50	1.067	0.190	/	
	state15			Right Edge	10	20300	1745	1	Low	-0.01	0.039	19.18	19.50	1.076	0.042	/
	10				20300	1745	50	Low	0.14	0.042	19.22	19.50	1.067	0.045	/	
	state15			Top Edge	10	20300	1745	1	Low	-0.07	0.363	19.18	19.50	1.076	0.391	/
	10				20300	1745	50	Low	-0.11	0.377	19.22	19.50	1.067	0.402	/	
Ant.1	state17&19	QPSK	SA	Front Side	10	20300	1745	1	High	0.05	0.164	18.14	18.50	1.086	0.178	/
	10				20300	1745	50	Mid	-0.14	0.168	18.20	18.50	1.072	0.180	/	
	state17&19			Back Side	10	20300	1745	1	High	-0.04	0.134	18.14	18.50	1.086	0.146	/
	10				20300	1745	50	Mid	-0.19	0.139	18.20	18.50	1.072	0.149	/	
	state17&19			Right Edge	10	20300	1745	1	High	0.13	0.031	18.14	18.50	1.086	0.034	/
	10				20300	1745	50	Mid	0.10	0.034	18.20	18.50	1.072	0.036	/	
	state17&19			Top Edge	10	20300	1745	1	High	0.11	0.287	18.14	18.50	1.086	0.312	/
	10				20300	1745	50	Mid	0.17	0.296	18.20	18.50	1.072	0.317	/	
Ant.0	state15	QPSK	SA	Front Side	10	20300	1745	1	Low	-0.01	0.206	20.06	20.50	1.107	0.228	/
	10				20300	1745	50	Mid	-0.02	0.213	20.28	20.50	1.052	0.224	/	
	state15			Back Side	10	20300	1745	1	Low	0.03	0.309	20.06	20.50	1.107	0.342	/
	10				20300	1745	50	Mid	0.18	0.312	20.28	20.50	1.052	0.328	/	
	state15			Left Edge	10	20300	1745	1	Low	0.14	0.076	20.06	20.50	1.107	0.084	/
	10				20300	1745	50	Mid	-0.09	0.082	20.28	20.50	1.052	0.086	/	
	state15			Right Edge	10	20300	1745	1	Low	-0.11	0.038	20.06	20.50	1.107	0.042	/
	10				20300	1745	50	Mid	0.12	0.043	20.28	20.50	1.052	0.045	/	
	state15			Bottom Edge	10	20300	1745	1	Low	-0.13	0.535	20.06	20.50	1.107	<b>0.592</b>	23#
	10				20300	1745	50	Mid	-0.02	0.549	20.28	20.50	1.052	0.578	/	
Ant.0	state17&19	QPSK	SA	Front Side	10	20300	1745	1	Low	0.08	0.157	19.04	19.50	1.112	0.175	/

	state17&19				10	20300	1745	50	Mid	-0.07	0.161	18.85	19.50	1.161	0.187	/	
	state17&19				Back Side	10	20300	1745	1	Low	-0.02	0.238	19.04	19.50	1.112	0.265	/
	state17&19					10	20300	1745	50	Mid	0.12	0.245	18.85	19.50	1.161	0.285	/
	state17&19				Left Edge	10	20300	1745	1	Low	0.10	0.060	19.04	19.50	1.112	0.067	/
	state17&19					10	20300	1745	50	Mid	0.19	0.065	18.85	19.50	1.161	0.075	/
	state17&19				Right Edge	10	20300	1745	1	Low	0.10	0.029	19.04	19.50	1.112	0.032	/
	state17&19					10	20300	1745	50	Mid	-0.08	0.035	18.85	19.50	1.161	0.041	/
	state17&19				Bottom Edge	10	20300	1745	1	Low	0.19	0.413	19.04	19.50	1.112	0.459	/
	state17&19					10	20300	1745	50	Mid	-0.07	0.436	18.85	19.50	1.161	0.506	/

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

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

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>																
Ant.1	state12	QPSK	SA	Left Cheek	0	20450	829	1	Low	0.07	0.576	23.30	24.50	1.318	0.759	/
	state12				0	20450	829	25	Mid	0.02	0.471	22.45	23.50	1.274	0.600	/
	state12			Left Tilt	0	20450	829	1	Low	0.10	0.508	23.30	24.50	1.318	0.670	/
	state12				0	20450	829	25	Mid	-0.11	0.419	22.45	23.50	1.274	0.534	/
	state12			Right Cheek	0	20450	829	1	Low	-0.09	0.821	23.30	24.50	1.318	<b>1.082</b>	24#
	state12				0	20525	836.5	1	Low	-0.18	0.814	23.28	24.50	1.324	1.078	/
	state12				0	20600	844	1	Low	-0.19	0.755	23.19	24.50	1.352	1.021	/
	state12				0	20450	829	25	Mid	0.13	0.669	22.45	23.50	1.274	0.852	/
	state12				0	20525	836.5	25	Mid	0.01	0.656	22.43	23.50	1.279	0.839	/
	state12				0	20600	844	25	Mid	0.18	0.603	22.35	23.50	1.303	0.786	/
	state12			Right Tilt	0	20450	829	100	Low	-0.13	0.672	22.42	23.50	1.282	0.862	/
	state12				0	20450	829	1	Low	0.02	0.590	23.30	24.50	1.318	0.778	/
state12	0	20450	829	25	Mid	-0.11	0.472	22.45	23.50	1.274	0.601	/				
Ant.1	state16	QPSK	SA	Left Cheek	0	20450	829	1	Low	0.03	0.453	21.53	23.00	1.403	0.635	/
	state16				0	20450	829	25	Mid	0.04	0.468	21.69	23.00	1.352	0.633	/
	state16			Left Tilt	0	20450	829	1	Low	-0.12	0.392	21.53	23.00	1.403	0.550	/
	state16				0	20450	829	25	Mid	0.12	0.403	21.69	23.00	1.352	0.545	/
	state16			Right Cheek	0	20450	829	1	Low	0.13	0.624	21.53	23.00	1.403	0.875	/
	state16				0	20450	829	25	Mid	-0.15	0.656	21.69	23.00	1.352	0.887	/
	state16			Right Tilt	0	20450	829	1	Low	-0.10	0.446	21.53	23.00	1.403	0.626	/
	state16				0	20450	829	25	Mid	0.14	0.454	21.69	23.00	1.352	0.614	/
Ant.1	state18&20	QPSK	SA	Left Cheek	0	20450	829	1	Low	0.05	0.109	15.57	17.00	1.390	0.152	/
	state18&20				0	20450	829	25	Mid	0.12	0.112	15.74	17.00	1.337	0.150	/
	state18&20			Left Tilt	0	20450	829	1	Low	-0.07	0.097	15.57	17.00	1.390	0.135	/
	state18&20				0	20450	829	25	Mid	-0.10	0.100	15.74	17.00	1.337	0.134	/
	state18&20			Right Cheek	0	20450	829	1	Low	-0.15	0.150	15.57	17.00	1.390	0.208	/
	state18&20				0	20450	829	25	Mid	-0.15	0.156	15.74	17.00	1.337	0.209	/

	state18&20			Right Tilt	0	20450	829	1	Low	0.16	0.115	15.57	17.00	1.390	0.160	/
	state18&20				0	20450	829	25	Mid	0.00	0.117	15.74	17.00	1.337	0.156	/
Ant.1	state12	QPSK	NSA	Left Cheek	0	20450	829	1	Low	0.03	0.296	20.45	21.50	1.274	0.377	/
	state12				0	20450	829	25	Low	0.10	0.284	20.42	21.50	1.282	0.364	/
	state12			Left Tilt	0	20450	829	1	Low	-0.16	0.255	20.45	21.50	1.274	0.325	/
	state12				0	20450	829	25	Low	0.09	0.262	20.42	21.50	1.282	0.336	/
	state12			Right Cheek	0	20450	829	1	Low	0.16	0.400	20.45	21.50	1.274	0.509	/
	state12				0	20450	829	25	Low	-0.18	0.412	20.42	21.50	1.282	0.528	/
	state12			Right Tilt	0	20450	829	1	Low	-0.14	0.293	20.45	21.50	1.274	0.373	/
	state12				0	20450	829	25	Low	0.02	0.300	20.42	21.50	1.282	0.385	/
Ant.1	state16&20	QPSK	NSA	Left Cheek	0	20450	829	1	Low	-0.04	0.232	19.28	20.50	1.324	0.307	/
	state16&20				0	20450	829	25	Low	-0.01	0.239	19.32	20.50	1.312	0.314	/
	state16&20			Left Tilt	0	20450	829	1	Low	0.10	0.198	19.28	20.50	1.324	0.262	/
	state16&20				0	20450	829	25	Low	0.08	0.204	19.32	20.50	1.312	0.268	/
	state16&20			Right Cheek	0	20450	829	1	Low	-0.09	0.306	19.28	20.50	1.324	0.405	/
	state16&20				0	20450	829	25	Low	0.14	0.316	19.32	20.50	1.312	0.415	/
	state16&20			Right Tilt	0	20450	829	1	Low	-0.10	0.228	19.28	20.50	1.324	0.302	/
	state16&20				0	20450	829	25	Low	0.15	0.241	19.32	20.50	1.312	0.316	/
Ant.1	state18	QPSK	NSA	Left Cheek	0	20450	829	1	Low	-0.12	0.146	17.35	18.50	1.303	0.190	/
	state18				0	20450	829	25	Low	0.00	0.156	17.44	18.50	1.276	0.199	/
	state18			Left Tilt	0	20450	829	1	Low	-0.10	0.122	17.35	18.50	1.303	0.159	/
	state18				0	20450	829	25	Low	-0.05	0.132	17.44	18.50	1.276	0.168	/
	state18			Right Cheek	0	20450	829	1	Low	0.14	0.187	17.35	18.50	1.303	0.244	/
	state18				0	20450	829	25	Low	-0.16	0.200	17.44	18.50	1.276	0.255	/
	state18			Right Tilt	0	20450	829	1	Low	-0.10	0.141	17.35	18.50	1.303	0.184	/
	state18				0	20450	829	25	Low	0.18	0.157	17.44	18.50	1.276	0.200	/
Ant.0	state12&16&18&20	QPSK	SA	Left Cheek	0	20525	836.5	1	Mid	-0.16	0.124	23.45	24.50	1.274	0.158	/
	state12&16&18&20				0	20450	829	25	Mid	-0.07	0.102	22.61	23.50	1.227	0.125	/
	state12&16&18&20			Left Tilt	0	20525	836.5	1	Mid	0.00	0.061	23.45	24.50	1.274	0.078	/
	state12&16&18&20				0	20450	829	25	Mid	-0.02	0.050	22.61	23.50	1.227	0.061	/
	state12&16&18&20			Right Cheek	0	20525	836.5	1	Mid	0.16	0.100	23.45	24.50	1.274	0.127	/
	state12&16&18&20				0	20450	829	25	Mid	0.15	0.083	22.61	23.50	1.227	0.102	/
	state12&16&18&20			Right Tilt	0	20525	836.5	1	Mid	-0.16	0.054	23.45	24.50	1.274	0.069	/
	state12&16&18&20				0	20450	829	25	Mid	-0.08	0.044	22.61	23.50	1.227	0.054	/
<b>Body-worn</b>																
Ant.1	state11	QPSK	SA&NSA	Front Side	15	20450	829	1	Low	-0.08	0.115	23.30	24.50	1.318	0.152	/
	state11				15	20450	829	25	Mid	-0.12	0.092	22.45	23.50	1.274	0.117	/
	state11			Back Side	15	20450	829	1	Low	-0.17	0.135	23.30	24.50	1.318	<b>0.178</b>	25#
	state11				15	20450	829	25	Mid	0.04	0.109	22.45	23.50	1.274	0.139	/
Ant.0	state11	QPSK	SA	Front Side	15	20525	836.5	1	Mid	-0.07	0.096	23.45	24.50	1.274	0.122	/
	state11				15	20450	829	25	Mid	-0.07	0.079	22.61	23.50	1.227	0.097	/
	state11			Back Side	15	20525	836.5	1	Mid	0.14	0.124	23.45	24.50	1.274	0.158	/
	state11				15	20450	829	25	Mid	0.12	0.098	22.61	23.50	1.227	0.120	/
<b>Hotspot</b>																
Ant.1	state15&17&19	QPSK	SA	Front Side	10	20450	829	1	Low	-0.12	0.133	23.30	24.50	1.318	0.175	/

	state15&17&19				10	20450	829	25	Mid	0.10	0.109	22.45	23.50	1.274	0.139	/	
	state15&17&19				Back Side	10	20450	829	1	Low	0.06	0.164	23.30	24.50	1.318	<b>0.216</b>	26#
	state15&17&19					10	20450	829	25	Mid	-0.05	0.133	22.45	23.50	1.274	0.169	/
	state15&17&19				Right Edge	10	20450	829	1	Low	0.17	0.143	23.30	24.50	1.318	0.189	/
	state15&17&19					10	20450	829	25	Mid	0.09	0.114	22.45	23.50	1.274	0.145	/
	state15&17&19				Top Edge	10	20450	829	1	Low	-0.03	0.159	23.30	24.50	1.318	0.210	/
	state15&17&19					10	20450	829	25	Mid	0.02	0.129	22.45	23.50	1.274	0.164	/
Ant.1	state15&19	QPSK	NSA	Front Side	10	20450	829	1	Low	-0.12	0.133	23.30	24.50	1.318	0.175	/	
	10				20450	829	25	Mid	0.10	0.109	22.45	23.50	1.274	0.139	/		
	state15&19			Back Side	10	20450	829	1	Low	0.06	0.164	23.30	24.50	1.318	0.216	/	
	state15&19				10	20450	829	25	Mid	-0.05	0.133	22.45	23.50	1.274	0.169	/	
	state15&19			Right Edge	10	20450	829	1	Low	0.17	0.143	23.30	24.50	1.318	0.189	/	
	state15&19				10	20450	829	25	Mid	0.09	0.114	22.45	23.50	1.274	0.145	/	
	state15&19			Top Edge	10	20450	829	1	Low	-0.03	0.159	23.30	24.50	1.318	0.210	/	
	state15&19				10	20450	829	25	Mid	0.02	0.129	22.45	23.50	1.274	0.164	/	
Ant.1	state17	QPSK	NSA	Front Side	10	20450	829	1	Low	-0.18	0.105	22.56	23.50	1.242	0.130	/	
	10				20450	829	25	Low	-0.15	0.107	22.52	23.50	1.253	0.134	/		
	state17			Back Side	10	20450	829	1	Low	-0.17	0.126	22.56	23.50	1.242	0.156	/	
	state17				10	20450	829	25	Low	-0.10	0.133	22.52	23.50	1.253	0.167	/	
	state17			Right Edge	10	20450	829	1	Low	-0.18	0.109	22.56	23.50	1.242	0.135	/	
	state17				10	20450	829	25	Low	-0.08	0.110	22.52	23.50	1.253	0.138	/	
	state17			Top Edge	10	20450	829	1	Low	0.03	0.125	22.56	23.50	1.242	0.155	/	
	state17				10	20450	829	25	Low	-0.06	0.129	22.52	23.50	1.253	0.162	/	
Ant.0	state15&17&19	QPSK	SA	Front Side	10	20525	836.5	1	Mid	-0.05	0.114	23.45	24.50	1.274	0.145	/	
	10				20450	829	25	Mid	0.15	0.092	22.61	23.50	1.227	0.113	/		
	state15&17&19			Back Side	10	20525	836.5	1	Mid	0.11	0.161	23.45	24.50	1.274	0.205	/	
	state15&17&19				10	20450	829	25	Mid	-0.14	0.133	22.61	23.50	1.227	0.163	/	
	state15&17&19			Left Edge	10	20525	836.5	1	Mid	0.08	0.071	23.45	24.50	1.274	0.090	/	
	state15&17&19				10	20450	829	25	Mid	-0.10	0.059	22.61	23.50	1.227	0.072	/	
	state15&17&19			Right Edge	10	20525	836.5	1	Mid	0.03	0.094	23.45	24.50	1.274	0.120	/	
	state15&17&19				10	20450	829	25	Mid	-0.04	0.076	22.61	23.50	1.227	0.093	/	
	state15&17&19			Bottom Edge	10	20525	836.5	1	Mid	-0.17	0.117	23.45	24.50	1.274	0.149	/	
	state15&17&19				10	20450	829	25	Mid	-0.19	0.095	22.61	23.50	1.227	0.117	/	

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

## 10.9LTE Band 7 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>																
Ant.1	state12	QPSK	SA	Left Cheek	0	20850	2510	1	Low	0.16	0.234	15.78	17.00	1.324	0.310	/
	state12				0	20850	2510	50	Low	-0.15	0.241	15.85	17.00	1.303	0.314	/
	state12				0	20850	2510	1	Low	0.01	0.317	15.78	17.00	1.324	0.420	/

	state12				0	20850	2510	50	Low	-0.10	0.329	15.85	17.00	1.303	0.429	/	
	state12				Right Cheek	0	20850	2510	1	Low	-0.08	0.577	15.78	17.00	1.324	0.764	/
	state12					0	20850	2510	50	Low	0.14	0.591	15.85	17.00	1.303	0.770	/
	state12				Right Tilt	0	20850	2510	1	Low	-0.14	0.645	15.78	17.00	1.324	0.854	/
	state12					0	21100	2535	1	High	-0.08	0.653	15.78	17.00	1.324	0.865	/
	state12					0	21350	2560	1	High	-0.07	0.602	15.76	17.00	1.330	0.801	/
	state12					0	20850	2510	50	Low	0.05	0.667	15.85	17.00	1.303	0.869	/
	state12					0	21100	2535	50	High	0.01	0.662	15.79	17.00	1.321	<b>0.875</b>	<b>27#</b>
	state12					0	21350	2560	50	Mid	-0.16	0.633	15.80	17.00	1.318	0.834	/
	state12				0	20850	2510	100	Low	0.08	0.649	15.80	17.00	1.318	0.856	/	
Ant.1	state16	QPSK	SA	Left Cheek	0	21100	2535	1	Mid	-0.01	0.211	14.95	16.50	1.429	0.301	/	
	state16				0	20850	2510	50	Low	0.12	0.215	15.04	16.50	1.400	0.301	/	
	state16			Left Tilt	0	21100	2535	1	Mid	0.15	0.273	14.95	16.50	1.429	0.390	/	
	state16				0	20850	2510	50	Low	0.15	0.291	15.04	16.50	1.400	0.407	/	
	state16			Right Cheek	0	21100	2535	1	Mid	-0.12	0.519	14.95	16.50	1.429	0.742	/	
	state16				0	20850	2510	50	Low	0.02	0.527	15.04	16.50	1.400	0.738	/	
	state16			Right Tilt	0	21100	2535	1	Mid	-0.03	0.568	14.95	16.50	1.429	0.812	/	
	state16				0	20850	2510	1	Low	-0.11	0.564	14.83	16.50	1.469	0.828	/	
	state16				0	21350	2560	1	Low	0.13	0.540	14.91	16.50	1.442	0.779	/	
	state16				0	20850	2510	50	Low	-0.11	0.576	15.04	16.50	1.400	0.806	/	
	state16				0	21100	2535	50	High	0.18	0.609	14.96	16.50	1.426	0.868	/	
	state16				0	21350	2560	50	Mid	0.17	0.565	14.93	16.50	1.435	0.811	/	
	state16			0	20850	2510	100	Low	0.18	0.593	14.95	16.50	1.429	0.847	/		
Ant.1	state18	QPSK	SA	Left Cheek	0	20850	2510	1	High	-0.07	0.108	12.02	13.50	1.406	0.152	/	
	state18				0	20850	2510	50	Low	-0.06	0.110	12.11	13.50	1.377	0.151	/	
	state18			Left Tilt	0	20850	2510	1	High	-0.03	0.139	12.02	13.50	1.406	0.195	/	
	state18				0	20850	2510	50	Low	-0.17	0.151	12.11	13.50	1.377	0.208	/	
	state18			Right Cheek	0	20850	2510	1	High	-0.11	0.257	12.02	13.50	1.406	0.361	/	
	state18				0	20850	2510	50	Low	0.13	0.262	12.11	13.50	1.377	0.361	/	
	state18			Right Tilt	0	20850	2510	1	High	-0.08	0.284	12.02	13.50	1.406	0.399	/	
	state18				0	20850	2510	50	Low	0.04	0.295	12.11	13.50	1.377	0.406	/	
Ant.1	state20	QPSK	SA	Left Cheek	0	21100	2535	1	High	0.03	0.134	12.71	14.00	1.346	0.180	/	
	state20				0	21100	2535	50	Low	0.12	0.138	12.85	14.00	1.303	0.180	/	
	state20			Left Tilt	0	21100	2535	1	High	-0.04	0.168	12.71	14.00	1.346	0.226	/	
	state20				0	21100	2535	50	Low	-0.09	0.175	12.85	14.00	1.303	0.228	/	
	state20			Right Cheek	0	21100	2535	1	High	0.18	0.314	12.71	14.00	1.346	0.423	/	
	state20				0	21100	2535	50	Low	0.09	0.319	12.85	14.00	1.303	0.416	/	
	state20			Right Tilt	0	21100	2535	1	High	0.16	0.343	12.71	14.00	1.346	0.462	/	
	state20				0	21100	2535	50	Low	0.02	0.360	12.85	14.00	1.303	0.469	/	
Ant.1	state12	QPSK	NSA	Left Cheek	0	21100	2535	1	Mid	-0.01	0.211	14.95	15.50	1.135	0.239	/	
	state12				0	20850	2510	50	Low	0.12	0.215	15.04	15.50	1.112	0.239	/	
	state12			Left Tilt	0	21100	2535	1	Mid	0.15	0.273	14.95	15.50	1.135	0.310	/	
	state12				0	20850	2510	50	Low	0.15	0.291	15.04	15.50	1.112	0.324	/	
	state12			Right Cheek	0	21100	2535	1	Mid	-0.12	0.519	14.95	15.50	1.135	0.589	/	
	state12				0	20850	2510	50	Low	0.02	0.527	15.04	15.50	1.112	0.586	/	



	state12			Right Tilt	0	21100	2535	1	Mid	-0.03	0.568	14.95	15.50	1.135	0.645	/
	state12			Right Tilt	0	20850	2510	50	Low	-0.11	0.576	15.04	15.50	1.112	0.640	/
Ant.1	state16&20	QPSK	NSA	Left Cheek	0	20850	2510	1	High	0.06	0.108	12.02	13.50	1.406	0.152	/
	0				20850	2510	50	Low	-0.02	0.110	12.11	13.50	1.377	0.151	/	
	state16&20			Left Tilt	0	20850	2510	1	High	0.16	0.139	12.02	13.50	1.406	0.195	/
	state16&20				0	20850	2510	50	Low	0.12	0.151	12.11	13.50	1.377	0.208	/
	state16&20			Right Cheek	0	20850	2510	1	High	-0.11	0.257	12.02	13.50	1.406	0.361	/
	state16&20				0	20850	2510	50	Low	-0.06	0.262	12.11	13.50	1.377	0.361	/
	state16&20			Right Tilt	0	20850	2510	1	High	-0.02	0.284	12.02	13.50	1.406	0.399	/
	state16&20				0	20850	2510	50	Low	0.18	0.295	12.11	13.50	1.377	0.406	/
Ant.1	state18	QPSK	NSA	Left Cheek	0	20850	2510	1	Low	0.07	0.057	9.66	11.00	1.361	0.078	/
	state18				0	20850	2510	50	Low	0.16	0.061	9.72	11.00	1.343	0.082	/
	state18			Left Tilt	0	20850	2510	1	Low	-0.12	0.073	9.66	11.00	1.361	0.099	/
	state18				0	20850	2510	50	Low	-0.07	0.080	9.72	11.00	1.343	0.107	/
	state18			Right Cheek	0	20850	2510	1	Low	0.08	0.142	9.66	11.00	1.361	0.193	/
	state18				0	20850	2510	50	Low	0.19	0.146	9.72	11.00	1.343	0.196	/
	state18			Right Tilt	0	20850	2510	1	Low	-0.05	0.155	9.66	11.00	1.361	0.211	/
	state18				0	20850	2510	50	Low	0.09	0.158	9.72	11.00	1.343	0.212	/
Ant.0	state12&16&18&20	QPSK	SA&NSA	Left Cheek	0	21350	2560	1	Low	-0.09	0.169	22.82	24.00	1.312	0.222	/
	state12&16&18&20				0	21350	2560	50	Low	0.11	0.139	22.01	23.00	1.256	0.175	/
	state12&16&18&20			Left Tilt	0	21350	2560	1	Low	0.05	0.158	22.82	24.00	1.312	0.207	/
	state12&16&18&20				0	21350	2560	50	Low	0.07	0.125	22.01	23.00	1.256	0.157	/
	state12&16&18&20			Right Cheek	0	21350	2560	1	Low	-0.01	0.304	22.82	24.00	1.312	0.399	/
	state12&16&18&20				0	21350	2560	50	Low	0.14	0.244	22.01	23.00	1.256	0.306	/
	state12&16&18&20			Right Tilt	0	21350	2560	1	Low	0.03	0.135	22.82	24.00	1.312	0.177	/
	state12&16&18&20				0	21350	2560	50	Low	-0.08	0.099	22.01	23.00	1.256	0.124	/
Ant.3	state12	QPSK	NSA	Left Cheek	0	20850	2510	1	Low	-0.14	0.019	18.06	19.00	1.242	0.024	/
	state12				0	20850	2510	50	Mid	0.04	0.021	17.74	19.00	1.337	0.028	/
	state12			Left Tilt	0	20850	2510	1	Low	0.03	0.014	18.06	19.00	1.242	0.017	/
	state12				0	20850	2510	50	Mid	-0.11	0.018	17.74	19.00	1.337	0.024	/
	state12			Right Cheek	0	20850	2510	1	Low	0.19	0.024	18.06	19.00	1.242	0.030	/
	state12				0	20850	2510	50	Mid	0.02	0.027	17.74	19.00	1.337	0.036	/
	state12			Right Tilt	0	20850	2510	1	Low	0.08	0.011	18.06	19.00	1.242	0.014	/
	state12				0	20850	2510	50	Mid	0.05	0.013	17.74	19.00	1.337	0.017	/
Ant.3	state16&20	QPSK	NSA	Left Cheek	0	20850	2510	1	Low	-0.14	0.019	18.06	18.50	1.107	0.021	/
	state16&20				0	20850	2510	50	Mid	0.04	0.021	17.74	18.50	1.191	0.025	/
	state16&20			Left Tilt	0	20850	2510	1	Low	0.03	0.014	18.06	18.50	1.107	0.015	/
	state16&20				0	20850	2510	50	Mid	-0.11	0.018	17.74	18.50	1.191	0.021	/
	state16&20			Right Cheek	0	20850	2510	1	Low	0.19	0.024	18.06	18.50	1.107	0.027	/
	state16&20				0	20850	2510	50	Mid	0.02	0.027	17.74	18.50	1.191	0.032	/
	state16&20			Right Tilt	0	20850	2510	1	Low	0.08	0.011	18.06	18.50	1.107	0.012	/
	state16&20				0	20850	2510	50	Mid	0.05	0.013	17.74	18.50	1.191	0.015	/
Ant.3	state18	QPSK	NSA	Left Cheek	0	21100	2535	1	Low	0.07	0.017	17.37	18.00	1.156	0.020	/
	state18				0	20850	2510	50	Mid	0.06	0.018	17.33	18.00	1.167	0.021	/
	state18			Left Tilt	0	21100	2535	1	Low	0.05	0.013	17.37	18.00	1.156	0.015	/

	state18			Right Cheek	0	20850	2510	50	Mid	-0.02	0.016	17.33	18.00	1.167	0.019	/
	state18				0	21100	2535	1	Low	0.08	0.020	17.37	18.00	1.156	0.023	/
	state18				0	20850	2510	50	Mid	0.15	0.025	17.33	18.00	1.167	0.029	/
	state18				0	21100	2535	1	Low	0.10	0.010	17.37	18.00	1.156	0.012	/
	state18				0	20850	2510	50	Mid	0.06	0.011	17.33	18.00	1.167	0.013	/
Ant.4	state12	QPSK	NSA	Left Cheek	0	20850	2510	1	Low	-0.17	0.016	17.95	19.00	1.274	0.020	/
	state12				0	20850	2510	50	Mid	0.02	0.018	17.70	19.00	1.349	0.024	/
	state12			Left Tilt	0	20850	2510	1	Low	-0.19	0.006	17.95	19.00	1.274	0.008	/
	state12				0	20850	2510	50	Mid	0.16	0.006	17.70	19.00	1.349	0.008	/
	state12			Right Cheek	0	20850	2510	1	Low	-0.14	0.022	17.95	19.00	1.274	0.028	/
	state12				0	20850	2510	50	Mid	0.11	0.023	17.70	19.00	1.349	0.031	/
	state12			Right Tilt	0	20850	2510	1	Low	-0.02	0.009	17.95	19.00	1.274	0.011	/
	state12				0	20850	2510	50	Mid	0.02	0.011	17.70	19.00	1.349	0.015	/
Ant.4	state16&20	QPSK	NSA	Left Cheek	0	20850	2510	1	Low	-0.17	0.016	17.95	18.50	1.135	0.018	/
	state16&20				0	20850	2510	50	Mid	0.02	0.018	17.70	18.50	1.202	0.022	/
	state16&20			Left Tilt	0	20850	2510	1	Low	-0.19	0.006	17.95	18.50	1.135	0.007	/
	state16&20				0	20850	2510	50	Mid	0.16	0.006	17.70	18.50	1.202	0.007	/
	state16&20			Right Cheek	0	20850	2510	1	Low	-0.14	0.022	17.95	18.50	1.135	0.025	/
	state16&20				0	20850	2510	50	Mid	0.11	0.023	17.70	18.50	1.202	0.028	/
	state16&20			Right Tilt	0	20850	2510	1	Low	-0.02	0.009	17.95	18.50	1.135	0.010	/
	state16&20				0	20850	2510	50	Mid	0.02	0.011	17.70	18.50	1.202	0.013	/
Ant.4	state18	QPSK	NSA	Left Cheek	0	20850	2510	1	Low	-0.17	0.016	17.95	18.00	1.012	0.016	/
	state18				0	20850	2510	50	Mid	0.02	0.018	17.70	18.00	1.072	0.019	/
	state18			Left Tilt	0	20850	2510	1	Low	-0.19	0.006	17.95	18.00	1.012	0.006	/
	state18				0	20850	2510	50	Mid	0.16	0.006	17.70	18.00	1.072	0.006	/
	state18			Right Cheek	0	20850	2510	1	Low	-0.14	0.022	17.95	18.00	1.012	0.022	/
	state18				0	20850	2510	50	Mid	0.11	0.023	17.70	18.00	1.072	0.025	/
	state18			Right Tilt	0	20850	2510	1	Low	-0.02	0.009	17.95	18.00	1.012	0.009	/
	state18				0	20850	2510	50	Mid	0.02	0.011	17.70	18.00	1.072	0.012	/
<b>Body-worn</b>																
Ant.1	state11	QPSK	SA	Front Side	15	21100	2535	1	High	-0.05	0.086	18.58	20.00	1.387	0.119	/
	state11				15	21100	2535	50	Mid	-0.19	0.088	18.60	20.00	1.380	0.121	/
	state11			Back Side	15	21100	2535	1	High	0.18	0.174	18.58	20.00	1.387	0.241	/
	state11				15	21100	2535	50	Mid	0.01	0.179	18.60	20.00	1.380	0.247	28#
Ant.1	state11	QPSK	NSA	Front Side	15	20850	2510	1	Low	0.01	0.055	15.78	17.00	1.324	0.073	/
	state11				15	20850	2510	50	Low	-0.14	0.057	15.85	17.00	1.303	0.074	/
	state11			Back Side	15	20850	2510	1	Low	0.07	0.094	15.78	17.00	1.324	0.124	/
	state11				15	20850	2510	50	Low	-0.10	0.102	15.85	17.00	1.303	0.133	/
Ant.0	state11	QPSK	SA	Front Side	15	21350	2560	1	High	0.12	0.092	20.44	22.00	1.432	0.132	/
	state11				15	21350	2560	50	Low	-0.16	0.095	20.42	22.00	1.439	0.137	/
	state11			Back Side	15	21350	2560	1	High	-0.15	0.114	20.44	22.00	1.432	0.163	/
	state11				15	21350	2560	50	Low	-0.17	0.119	20.42	22.00	1.439	0.171	/
Ant.0	state11	QPSK	NSA	Front Side	15	21350	2560	1	Low	0.05	0.103	21.76	22.50	1.186	0.122	/
	state11				15	21350	2560	50	Low	-0.09	0.107	21.79	22.50	1.178	0.126	/
	state11			Back Side	15	21350	2560	1	Low	-0.06	0.128	21.76	22.50	1.186	0.152	/

	state11				15	21350	2560	50	Low	-0.07	0.135	21.79	22.50	1.178	0.159	/	
Ant.3	state11	QPSK	NSA	Front Side	15	20850	2510	1	Low	0.17	0.007	18.06	19.00	1.242	0.009	/	
	15				20850	2510	50	Mid	0.09	0.009	17.74	19.00	1.337	0.012	/		
	state11			Back Side	15	20850	2510	1	Low	0.08	0.018	18.06	19.00	1.242	0.022	/	
	state11				15	20850	2510	50	Mid	0.00	0.019	17.74	19.00	1.337	0.025	/	
Ant.4	state11	QPSK	NSA	Front Side	15	20850	2510	1	Low	-0.06	0.009	17.95	19.00	1.274	0.011	/	
	15				20850	2510	50	Mid	0.01	0.012	17.70	19.00	1.349	0.016	/		
	state11			Back Side	15	20850	2510	1	Low	-0.14	0.053	17.95	19.00	1.274	0.067	/	
	state11				15	20850	2510	50	Mid	-0.18	0.056	17.70	19.00	1.349	0.076	/	
<b>Hotspot</b>																	
Ant.1	state15	QPSK	SA	Front Side	10	21100	2535	1	High	-0.13	0.176	18.58	20.00	1.387	0.244	/	
	state15				10	21100	2535	50	Mid	0.09	0.184	18.60	20.00	1.380	0.254	/	
	state15			Back Side	10	21100	2535	1	High	0.15	0.463	18.58	20.00	1.387	0.642	/	
	state15				10	21100	2535	50	Mid	-0.18	0.481	18.60	20.00	1.380	0.664	/	
	state15			Right Edge	10	21100	2535	1	High	0.07	0.070	18.58	20.00	1.387	0.097	/	
	state15				10	21100	2535	50	Mid	-0.16	0.067	18.60	20.00	1.380	0.092	/	
	state15			Top Edge	10	21100	2535	1	High	-0.01	0.553	18.58	20.00	1.387	0.767	/	
	state15				10	21100	2535	50	Mid	0.15	0.592	18.60	20.00	1.380	0.817	29#	
	state15				10	20850	2510	50	Mid	-0.08	0.552	18.44	20.00	1.432	0.791	/	
	state15				10	21350	2560	50	Mid	0.18	0.576	18.51	20.00	1.409	0.812	/	
	state15			10	21100	2535	100	Low	0.17	0.549	18.56	20.00	1.393	0.765	/		
Ant.1	state17	QPSK	SA	Front Side	10	21100	2535	1	High	0.00	0.123	17.03	18.50	1.403	0.173	/	
	state17				10	21100	2535	50	Low	-0.05	0.130	17.11	18.50	1.377	0.179	/	
	state17			Back Side	10	21100	2535	1	High	-0.11	0.323	17.03	18.50	1.403	0.453	/	
	state17				10	21100	2535	50	Low	-0.19	0.328	17.11	18.50	1.377	0.452	/	
	state17			Right Edge	10	21100	2535	1	High	-0.15	0.048	17.03	18.50	1.403	0.067	/	
	state17				10	21100	2535	50	Low	-0.14	0.046	17.11	18.50	1.377	0.063	/	
	state17			Top Edge	10	21100	2535	1	High	-0.13	0.394	17.03	18.50	1.403	0.553	/	
	state17				10	21100	2535	50	Low	0.01	0.413	17.11	18.50	1.377	0.569	/	
Ant.1	state19	QPSK	SA	Front Side	10	21100	2535	1	High	-0.08	0.111	16.56	18.00	1.393	0.155	/	
	state19				10	21100	2535	50	Low	-0.07	0.115	16.63	18.00	1.371	0.158	/	
	state19			Back Side	10	21100	2535	1	High	-0.03	0.284	16.56	18.00	1.393	0.396	/	
	state19				10	21100	2535	50	Low	-0.03	0.291	16.63	18.00	1.371	0.399	/	
	state19			Right Edge	10	21100	2535	1	High	0.17	0.041	16.56	18.00	1.393	0.057	/	
	state19				10	21100	2535	50	Low	-0.15	0.044	16.63	18.00	1.371	0.060	/	
	state19			Top Edge	10	21100	2535	1	High	-0.03	0.363	16.56	18.00	1.393	0.506	/	
	state19				10	21100	2535	50	Low	-0.06	0.372	16.63	18.00	1.371	0.510	/	
Ant.1	state15	QPSK	NSA	Front Side	10	21100	2535	1	Low	0.09	0.066	13.49	15.00	1.416	0.093	/	
	state15				10	21100	2535	50	Low	0.11	0.068	13.53	15.00	1.403	0.095	/	
	state15			Back Side	10	21100	2535	1	Low	-0.10	0.142	13.49	15.00	1.416	0.201	/	
	state15				10	21100	2535	50	Low	0.10	0.139	13.53	15.00	1.403	0.195	/	
	state15			Right Edge	10	21100	2535	1	Low	-0.04	0.026	13.49	15.00	1.416	0.037	/	
	state15				10	21100	2535	50	Low	0.10	0.029	13.53	15.00	1.403	0.041	/	
	state15			Top Edge	10	21100	2535	1	Low	-0.08	0.204	13.49	15.00	1.416	0.289	/	
	state15				10	21100	2535	50	Low	-0.08	0.211	13.53	15.00	1.403	0.296	/	

Ant.1	state17	QPSK	NSA	Front Side	10	20850	2510	1	Low	-0.05	0.026	9.66	11.00	1.361	0.035	/
	state17				10	20850	2510	50	Low	-0.17	0.026	9.72	11.00	1.343	0.035	/
	state17			Back Side	10	20850	2510	1	Low	-0.08	0.055	9.66	11.00	1.361	0.075	/
	state17				10	20850	2510	50	Low	0.16	0.057	9.72	11.00	1.343	0.077	/
	state17			Right Edge	10	20850	2510	1	Low	0.06	0.010	9.66	11.00	1.361	0.014	/
	state17				10	20850	2510	50	Low	0.17	0.012	9.72	11.00	1.343	0.016	/
	state17			Top Edge	10	20850	2510	1	Low	-0.07	0.079	9.66	11.00	1.361	0.108	/
	state17				10	20850	2510	50	Low	0.07	0.086	9.72	11.00	1.343	0.115	/
Ant.1	state19	QPSK	NSA	Front Side	10	20850	2510	1	High	-0.10	0.046	12.02	13.50	1.406	0.065	/
	state19				10	20850	2510	50	Low	-0.10	0.048	12.11	13.50	1.377	0.066	/
	state19			Back Side	10	20850	2510	1	High	0.08	0.102	12.02	13.50	1.406	0.143	/
	state19				10	20850	2510	50	Low	-0.16	0.109	12.11	13.50	1.377	0.150	/
	state19			Right Edge	10	20850	2510	1	High	0.18	0.018	12.02	13.50	1.406	0.025	/
	state19				10	20850	2510	50	Low	-0.03	0.021	12.11	13.50	1.377	0.029	/
	state19			Top Edge	10	20850	2510	1	High	0.07	0.137	12.02	13.50	1.406	0.193	/
	state19				10	20850	2510	50	Low	-0.15	0.142	12.11	13.50	1.377	0.196	/
Ant.0	state15	QPSK	SA	Front Side	10	21350	2560	1	High	-0.07	0.174	20.44	22.00	1.432	0.249	/
	state15				10	21350	2560	50	Low	-0.19	0.180	20.42	22.00	1.439	0.259	/
	state15			Back Side	10	21350	2560	1	High	0.15	0.246	20.44	22.00	1.432	0.352	/
	state15				10	21350	2560	50	Low	0.17	0.252	20.42	22.00	1.439	0.363	/
	state15			Left Edge	10	21350	2560	1	High	-0.16	0.094	20.44	22.00	1.432	0.135	/
	state15				10	21350	2560	50	Low	0.16	0.105	20.42	22.00	1.439	0.151	/
	state15			Right Edge	10	21350	2560	1	High	0.02	0.018	20.44	22.00	1.432	0.026	/
	state15				10	21350	2560	50	Low	-0.17	0.021	20.42	22.00	1.439	0.030	/
	state15			Bottom Edge	10	21350	2560	1	High	-0.09	0.145	20.44	22.00	1.432	0.208	/
	state15				10	21350	2560	50	Low	-0.03	0.149	20.42	22.00	1.439	0.214	/
Ant.0	state17&19	QPSK	SA	Front Side	10	21350	2560	1	Low	0.16	0.142	19.46	21.00	1.426	0.202	/
	state17&19				10	21350	2560	50	Low	-0.10	0.144	19.45	21.00	1.429	0.206	/
	state17&19			Back Side	10	21350	2560	1	Low	0.00	0.197	19.46	21.00	1.426	0.281	/
	state17&19				10	21350	2560	50	Low	0.11	0.200	19.45	21.00	1.429	0.286	/
	state17&19			Left Edge	10	21350	2560	1	Low	-0.10	0.079	19.46	21.00	1.426	0.113	/
	state17&19				10	21350	2560	50	Low	-0.16	0.086	19.45	21.00	1.429	0.123	/
	state17&19			Right Edge	10	21350	2560	1	Low	0.07	0.015	19.46	21.00	1.426	0.021	/
	state17&19				10	21350	2560	50	Low	-0.12	0.017	19.45	21.00	1.429	0.024	/
	state17&19			Bottom Edge	10	21350	2560	1	Low	0.16	0.116	19.46	21.00	1.426	0.165	/
	state17&19				10	21350	2560	50	Low	-0.03	0.120	19.45	21.00	1.429	0.171	/
Ant.0	state15&19	QPSK	NSA	Front Side	10	21350	2560	1	Low	0.16	0.142	19.46	21.00	1.426	0.202	/
	state15&19				10	21350	2560	50	Low	-0.10	0.144	19.45	21.00	1.429	0.206	/
	state15&19			Back Side	10	21350	2560	1	Low	0.00	0.197	19.46	21.00	1.426	0.281	/
	state15&19				10	21350	2560	50	Low	0.11	0.200	19.45	21.00	1.429	0.286	/
	state15&19			Left Edge	10	21350	2560	1	Low	-0.10	0.079	19.46	21.00	1.426	0.113	/
	state15&19				10	21350	2560	50	Low	-0.16	0.086	19.45	21.00	1.429	0.123	/
	state15&19			Right Edge	10	21350	2560	1	Low	0.07	0.015	19.46	21.00	1.426	0.021	/
	state15&19				10	21350	2560	50	Low	-0.12	0.017	19.45	21.00	1.429	0.024	/
	state15&19				10	21350	2560	1	Low	0.16	0.116	19.46	21.00	1.426	0.165	/
	state15&19				10	21350	2560	50	Low	-0.03	0.120	19.45	21.00	1.429	0.171	/

	state15&19			Bottom Edge	10	21350	2560	50	Low	-0.03	0.120	19.45	21.00	1.429	0.171	/
Ant.0	state17	QPSK	NSA	Front Side	10	21350	2560	1	Low	-0.10	0.102	18.04	19.50	1.400	0.143	/
	10				21350	2560	50	Low	0.14	0.103	18.02	19.50	1.406	0.145	/	
	state17			Back Side	10	21350	2560	1	Low	0.09	0.138	18.04	19.50	1.400	0.193	/
	state17				10	21350	2560	50	Low	-0.11	0.143	18.02	19.50	1.406	0.201	/
	state17			Left Edge	10	21350	2560	1	Low	0.08	0.055	18.04	19.50	1.400	0.077	/
	state17				10	21350	2560	50	Low	0.19	0.061	18.02	19.50	1.406	0.086	/
	state17			Right Edge	10	21350	2560	1	Low	-0.15	0.011	18.04	19.50	1.400	0.015	/
	state17				10	21350	2560	50	Low	-0.06	0.012	18.02	19.50	1.406	0.017	/
	state17			Bottom Edge	10	21350	2560	1	Low	-0.14	0.082	18.04	19.50	1.400	0.115	/
	state17				10	21350	2560	50	Low	-0.06	0.086	18.02	19.50	1.406	0.121	/
Ant.3	state15&19	QPSK	NSA	Front Side	10	20850	2510	1	Low	0.02	0.028	18.06	18.50	1.107	0.031	/
	10				20850	2510	50	Mid	-0.17	0.031	17.74	18.50	1.191	0.037	/	
	state15&19			Back Side	10	20850	2510	1	Low	0.01	0.073	18.06	18.50	1.107	0.081	/
	state15&19				10	20850	2510	50	Mid	-0.19	0.079	17.74	18.50	1.191	0.094	/
	state15&19			Left Edge	10	20850	2510	1	Low	-0.11	0.112	18.06	18.50	1.107	0.124	/
	state15&19				10	20850	2510	50	Mid	-0.13	0.114	17.74	18.50	1.191	0.136	/
Ant.3	state17	QPSK	NSA	Front Side	10	21100	2535	1	Low	-0.14	0.024	17.37	18.00	1.156	0.028	/
	10				20850	2510	50	Mid	0.09	0.027	17.33	18.00	1.167	0.032	/	
	state17			Back Side	10	21100	2535	1	Low	-0.13	0.062	17.37	18.00	1.156	0.072	/
	state17				10	20850	2510	50	Mid	0.15	0.072	17.33	18.00	1.167	0.084	/
	state17			Left Edge	10	21100	2535	1	Low	-0.06	0.100	17.37	18.00	1.156	0.116	/
	state17				10	20850	2510	50	Mid	0.09	0.104	17.33	18.00	1.167	0.121	/
Ant.4	state15&19	QPSK	NSA	Front Side	10	20850	2510	1	Low	0.04	0.034	17.95	18.50	1.135	0.039	/
	10				20850	2510	50	Mid	0.17	0.038	17.70	18.50	1.202	0.046	/	
	state15&19			Back Side	10	20850	2510	1	Low	0.19	0.189	17.95	18.50	1.135	0.215	/
	state15&19				10	20850	2510	50	Mid	0.14	0.191	17.70	18.50	1.202	0.230	/
	state15&19			Right Edge	10	20850	2510	1	Low	-0.05	0.103	17.95	18.50	1.135	0.117	/
	state15&19				10	20850	2510	50	Mid	0.02	0.109	17.70	18.50	1.202	0.131	/
	state15&19			Top Edge	10	20850	2510	1	Low	-0.06	0.012	17.95	18.50	1.135	0.014	/
	state15&19				10	20850	2510	50	Mid	-0.18	0.014	17.70	18.50	1.202	0.017	/
Ant.4	state17	QPSK	NSA	Front Side	10	20850	2510	1	Low	0.04	0.034	17.95	18.00	1.012	0.034	/
	10				20850	2510	50	Mid	0.17	0.038	17.70	18.00	1.072	0.041	/	
	state17			Back Side	10	20850	2510	1	Low	0.19	0.189	17.95	18.00	1.012	0.191	/
	state17				10	20850	2510	50	Mid	0.14	0.191	17.70	18.00	1.072	0.205	/
	state17			Right Edge	10	20850	2510	1	Low	-0.05	0.103	17.95	18.00	1.012	0.104	/
	state17				10	20850	2510	50	Mid	0.02	0.109	17.70	18.00	1.072	0.117	/
	state17			Top Edge	10	20850	2510	1	Low	-0.06	0.012	17.95	18.00	1.012	0.012	/
	state17				10	20850	2510	50	Mid	-0.18	0.014	17.70	18.00	1.072	0.015	/

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

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Specific</b>																
Ant.1	state11&15	QPSK	SA	Front Side	0	21100	2535	1	High	-0.16	0.835	18.58	20.00	1.387	1.158	/
	0				21100	2535	50	Mid	-0.10	0.865	18.60	20.00	1.380	1.194	/	
	state11&15			Back Side	0	21100	2535	1	High	0.13	1.100	18.58	20.00	1.387	1.525	/
	0				21100	2535	50	Mid	-0.14	1.130	18.60	20.00	1.380	1.560	/	
	state11&15			Right Edge	0	21100	2535	1	High	-0.16	0.335	18.58	20.00	1.387	0.465	/
	0				21100	2535	50	Mid	-0.13	0.364	18.60	20.00	1.380	0.502	/	
	state11&15			Top Edge	0	21100	2535	1	High	0.04	1.280	18.58	20.00	1.387	1.775	/
	0				21100	2535	50	Mid	-0.09	1.300	18.60	20.00	1.380	<b>1.794</b>	30#	
Ant.1	state17	QPSK	SA	Front Side	0	21100	2535	1	High	0.18	0.573	17.03	18.50	1.403	0.804	/
	0				21100	2535	50	Low	0.03	0.598	17.11	18.50	1.377	0.824	/	
	state17			Back Side	0	21100	2535	1	High	0.17	0.921	17.03	18.50	1.403	1.292	/
	0				21100	2535	50	Low	-0.08	0.940	17.11	18.50	1.377	1.295	/	
	state17			Right Edge	0	21100	2535	50	Low	0.12	0.212	17.03	18.50	1.403	0.297	/
	0				21100	2535	1	High	0.12	0.230	17.11	18.50	1.377	0.317	/	
	state17			Top Edge	0	21100	2535	50	Low	0.04	0.924	17.03	18.50	1.403	1.296	/
	0				21100	2535	1	High	0.05	0.930	17.11	18.50	1.377	1.281	/	
Ant.1	state19	QPSK	SA	Front Side	0	21100	2535	1	High	0.07	0.523	16.56	18.00	1.393	0.729	/
	0				21100	2535	50	Low	0.10	0.529	16.63	18.00	1.371	0.725	/	
	state19			Back Side	0	21100	2535	1	High	0.04	0.808	16.56	18.00	1.393	1.126	/
	0				21100	2535	50	Low	0.01	0.830	16.63	18.00	1.371	1.138	/	
	state19			Right Edge	0	21100	2535	1	High	0.13	0.181	16.56	18.00	1.393	0.252	/
	0				21100	2535	50	Low	-0.03	0.197	16.63	18.00	1.371	0.270	/	
	state19			Top Edge	0	21100	2535	1	High	0.07	0.816	16.56	18.00	1.393	1.137	/
	0				21100	2535	50	Low	0.06	0.839	16.63	18.00	1.371	1.150	/	
Ant.1	state11	QPSK	NSA	Front Side	0	20850	2510	1	Low	-0.07	0.417	15.78	17.00	1.324	0.552	/
	0				20850	2510	50	Low	0.19	0.438	15.85	17.00	1.303	0.571	/	
	state11			Back Side	0	20850	2510	1	Low	-0.15	0.558	15.78	17.00	1.324	0.739	/
	0				20850	2510	50	Low	-0.02	0.568	15.85	17.00	1.303	0.740	/	
	state11			Right Edge	0	20850	2510	1	Low	-0.19	0.167	15.78	17.00	1.324	0.221	/
	0				20850	2510	50	Low	-0.08	0.175	15.85	17.00	1.303	0.228	/	
	state11			Top Edge	0	20850	2510	1	Low	0.05	0.617	15.78	17.00	1.324	0.817	/
	0				20850	2510	50	Low	0.11	0.659	15.85	17.00	1.303	0.859	/	
Ant.1	state15	QPSK	NSA	Front Side	0	21100	2535	1	Low	-0.11	0.255	13.49	15.00	1.416	0.361	/
	0				21100	2535	50	Low	-0.15	0.258	13.53	15.00	1.403	0.362	/	
	state15			Back Side	0	21100	2535	1	Low	0.03	0.403	13.49	15.00	1.416	0.571	/
	0				21100	2535	50	Low	0.02	0.419	13.53	15.00	1.403	0.588	/	
	state15			Right Edge	0	21100	2535	1	Low	0.12	0.087	13.49	15.00	1.416	0.123	/
	0				21100	2535	50	Low	0.03	0.100	13.53	15.00	1.403	0.140	/	
	state15			Top Edge	0	21100	2535	1	Low	0.00	0.409	13.49	15.00	1.416	0.579	/
	0				21100	2535	50	Low	-0.15	0.427	13.53	15.00	1.403	0.599	/	

Ant.1	state17	QPSK	NSA	Front Side	0	20850	2510	1	Low	0.00	0.097	9.66	11.00	1.361	0.132	/
	state17				0	20850	2510	50	Low	-0.08	0.099	9.72	11.00	1.343	0.133	/
	state17			Back Side	0	20850	2510	1	Low	0.18	0.156	9.66	11.00	1.361	0.212	/
	state17				0	20850	2510	50	Low	0.03	0.168	9.72	11.00	1.343	0.226	/
	state17			Right Edge	0	20850	2510	1	Low	-0.07	0.033	9.66	11.00	1.361	0.045	/
	state17				0	20850	2510	50	Low	-0.07	0.040	9.72	11.00	1.343	0.054	/
	state17			Top Edge	0	20850	2510	1	Low	0.05	0.159	9.66	11.00	1.361	0.216	/
	state17				0	20850	2510	50	Low	0.06	0.167	9.72	11.00	1.343	0.224	/
Ant.1	state19	QPSK	NSA	Front Side	0	20850	2510	1	High	0.01	0.179	12.02	13.50	1.406	0.252	/
	state19				0	20850	2510	50	Low	-0.12	0.184	12.11	13.50	1.377	0.253	/
	state19			Back Side	0	20850	2510	1	High	0.16	0.289	12.02	13.50	1.406	0.406	/
	state19				0	20850	2510	50	Low	-0.18	0.293	12.11	13.50	1.377	0.404	/
	state19			Right Edge	0	20850	2510	1	High	0.06	0.061	12.02	13.50	1.406	0.086	/
	state19				0	20850	2510	50	Low	-0.09	0.071	12.11	13.50	1.377	0.098	/
	state19			Top Edge	0	20850	2510	1	High	-0.05	0.287	12.02	13.50	1.406	0.404	/
	state19				0	20850	2510	50	Low	-0.09	0.307	12.11	13.50	1.377	0.423	/

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	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Head-CA</b>																
Ant.1	state12	QPSK	SA	Right Tilt	0	21100 +21298	2535 +2554.8	1+0	Low +Low	0.06	0.619	15.56	17.00	1.393	0.862	/
<b>Body-worn-CA</b>																
Ant.1	state11	QPSK	SA	Back Side	15	21100 +21298	2535 +2554.8	1+0	Low +Low	-0.04	0.156	18.43	20.00	1.435	0.224	/
<b>Hotspot-CA</b>																
Ant.1	state15	QPSK	SA	Top Edge	10	21100 +21298	2535 +2554.8	1+0	Low +Low	0.11	0.514	18.43	20.00	1.435	0.738	/

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

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
<b>Specific-CA</b>																
Ant.1	state11&15	QPSK	SA	Top Edge	0	21100 +21298	2535 +2554.8	1+0	Low +Low	-0.09	1.220	18.43	20.00	1.435	1.751	/

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

### 10.11 LTE Band 12 (10MHz Bandwidth)

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>																
Ant.1	state12	QPSK	SA	Left Cheek	0	23060	704	1	Low	0.02	0.285	23.39	24.50	1.291	0.368	/
	state12				0	23060	704	25	Mid	0.16	0.230	22.56	23.50	1.242	0.286	/
	state12			Left Tilt	0	23060	704	1	Low	-0.12	0.262	23.39	24.50	1.291	0.338	/
	state12				0	23060	704	25	Mid	-0.10	0.217	22.56	23.50	1.242	0.269	/
	state12			Right Cheek	0	23060	704	1	Low	-0.02	0.409	23.39	24.50	1.291	<b>0.528</b>	<b>31#</b>
	state12				0	23060	704	25	Mid	0.06	0.336	22.56	23.50	1.242	0.417	/
	state12			Right Tilt	0	23060	704	1	Low	0.17	0.384	23.39	24.50	1.291	0.496	/
	state12				0	23060	704	25	Mid	-0.09	0.313	22.56	23.50	1.242	0.389	/
Ant.1	state16	QPSK	SA	Left Cheek	0	23095	707.5	1	Low	-0.07	0.220	22.28	23.50	1.324	0.291	/
	state16				0	23095	707.5	25	Mid	-0.12	0.231	22.34	23.50	1.306	0.302	/
	state16			Left Tilt	0	23095	707.5	1	Low	-0.11	0.209	22.28	23.50	1.324	0.277	/
	state16				0	23095	707.5	25	Mid	-0.16	0.224	22.34	23.50	1.306	0.293	/
	state16			Right Cheek	0	23095	707.5	1	Low	0.03	0.324	22.28	23.50	1.324	0.429	/
	state16				0	23095	707.5	25	Mid	-0.09	0.329	22.34	23.50	1.306	0.430	/
	state16			Right Tilt	0	23095	707.5	1	Low	-0.06	0.308	22.28	23.50	1.324	0.408	/
	state16				0	23095	707.5	25	Mid	0.09	0.314	22.34	23.50	1.306	0.410	/
Ant.1	state18&20	QPSK	SA	Left Cheek	0	23095	707.5	1	Low	0.14	0.110	19.16	20.50	1.361	0.150	/
	state18&20				0	23095	707.5	25	Mid	-0.06	0.112	19.30	20.50	1.318	0.148	/
	state18&20			Left Tilt	0	23095	707.5	1	Low	0.04	0.106	19.16	20.50	1.361	0.144	/
	state18&20				0	23095	707.5	25	Mid	0.17	0.108	19.30	20.50	1.318	0.142	/
	state18&20			Right Cheek	0	23095	707.5	1	Low	-0.11	0.156	19.16	20.50	1.361	0.212	/
	state18&20				0	23095	707.5	25	Mid	0.18	0.167	19.30	20.50	1.318	0.220	/
	state18&20			Right Tilt	0	23095	707.5	1	Low	0.09	0.157	19.16	20.50	1.361	0.214	/
	state18&20				0	23095	707.5	25	Mid	-0.07	0.152	19.30	20.50	1.318	0.200	/
Ant.1	state12	QPSK	NSA	Left Cheek	0	23095	707.5	1	Low	-0.07	0.220	22.28	23.50	1.324	0.291	/
	state12				0	23095	707.5	25	Mid	-0.12	0.231	22.34	23.50	1.306	0.302	/
	state12			Left Tilt	0	23095	707.5	1	Low	-0.11	0.209	22.28	23.50	1.324	0.277	/
	state12				0	23095	707.5	25	Mid	-0.16	0.224	22.34	23.50	1.306	0.293	/
	state12			Right Cheek	0	23095	707.5	1	Low	0.03	0.324	22.28	23.50	1.324	0.429	/
	state12				0	23095	707.5	25	Mid	-0.09	0.329	22.34	23.50	1.306	0.430	/
	state12			Right Tilt	0	23095	707.5	1	Low	-0.06	0.308	22.28	23.50	1.324	0.408	/
	state12				0	23095	707.5	25	Mid	0.09	0.314	22.34	23.50	1.306	0.410	/
Ant.1	state16&20	QPSK	NSA	Left Cheek	0	23095	707.5	1	High	0.06	0.133	20.34	21.50	1.306	0.174	/
	state16&20				0	23095	707.5	25	Mid	0.00	0.142	20.36	21.50	1.300	0.185	/
	state16&20			Left Tilt	0	23095	707.5	1	High	-0.07	0.128	20.34	21.50	1.306	0.167	/
	state16&20				0	23095	707.5	25	Mid	-0.17	0.138	20.36	21.50	1.300	0.179	/
	state16&20			Right Cheek	0	23095	707.5	1	High	0.07	0.197	20.34	21.50	1.306	0.257	/
	state16&20				0	23095	707.5	25	Mid	0.15	0.209	20.36	21.50	1.300	0.272	/
	state16&20			Right Tilt	0	23095	707.5	1	High	-0.11	0.185	20.34	21.50	1.306	0.242	/
	state16&20				0	23095	707.5	25	Mid	0.15	0.209	20.36	21.50	1.300	0.272	/



	state16&20				0	23095	707.5	25	Mid	-0.15	0.200	20.36	21.50	1.300	0.260	/
Ant.1	state18	QPSK	NSA	Left Cheek	0	23095	707.5	1	High	-0.02	0.082	18.26	19.50	1.330	0.109	/
	0				23095	707.5	25	High	0.07	0.088	18.29	19.50	1.321	0.116	/	
	state18			Left Tilt	0	23095	707.5	1	High	-0.19	0.082	18.26	19.50	1.330	0.109	/
	0				23095	707.5	25	High	-0.04	0.084	18.29	19.50	1.321	0.111	/	
	state18			Right Cheek	0	23095	707.5	1	High	0.18	0.122	18.26	19.50	1.330	0.162	/
	0				23095	707.5	25	High	-0.09	0.126	18.29	19.50	1.321	0.166	/	
	state18			Right Tilt	0	23095	707.5	1	High	-0.14	0.111	18.26	19.50	1.330	0.148	/
	0				23095	707.5	25	High	-0.07	0.128	18.29	19.50	1.321	0.169	/	
Ant.0	state12&16&18&20	QPSK	SA	Left Cheek	0	23060	704	1	Low	0.05	0.091	23.42	24.50	1.282	0.117	/
	0				23060	704	25	High	-0.09	0.074	22.57	23.50	1.239	0.092	/	
	state12&16&18&20			Left Tilt	0	23060	704	1	Low	0.08	0.056	23.42	24.50	1.282	0.072	/
	0				23060	704	25	High	-0.04	0.044	22.57	23.50	1.239	0.055	/	
	state12&16&18&20			Right Cheek	0	23060	704	1	Low	-0.12	0.077	23.42	24.50	1.282	0.099	/
	0				23060	704	25	High	0.09	0.064	22.57	23.50	1.239	0.079	/	
	state12&16&18&20			Right Tilt	0	23060	704	1	Low	-0.19	0.053	23.42	24.50	1.282	0.068	/
	0				23060	704	25	High	-0.11	0.042	22.57	23.50	1.239	0.052	/	
<b>Body-worn</b>																
Ant.1	state11	QPSK	SA&NSA	Front Side	15	23060	704	1	Low	0.13	0.099	23.39	24.50	1.291	0.128	/
	15				23060	704	25	Mid	-0.08	0.081	22.56	23.50	1.242	0.101	/	
	state11			Back Side	15	23060	704	1	Low	-0.05	0.136	23.39	24.50	1.291	<b>0.176</b>	32#
	15				23060	704	25	Mid	-0.14	0.112	22.56	23.50	1.242	0.139	/	
Ant.0	state11	QPSK	SA	Front Side	15	23060	704	1	Low	-0.15	0.114	23.42	24.50	1.282	0.146	/
	15				23060	704	25	High	-0.05	0.094	22.57	23.50	1.239	0.116	/	
	state11			Back Side	15	23060	704	1	Low	0.09	0.120	23.42	24.50	1.282	0.154	/
	15				23060	704	25	High	-0.09	0.096	22.57	23.50	1.239	0.119	/	
<b>Hotspot</b>																
Ant.1	state15&17&19	QPSK	SA&NSA	Front Side	10	23060	704	1	Low	0.01	0.087	23.39	24.50	1.291	0.112	/
	10				23060	704	25	Mid	0.02	0.071	22.56	23.50	1.242	0.088	/	
	state15&17&19			Back Side	10	23060	704	1	Low	0.17	0.114	23.39	24.50	1.291	0.147	/
	10				23060	704	25	Mid	0.13	0.094	22.56	23.50	1.242	0.117	/	
	state15&17&19			Right Edge	10	23060	704	1	Low	-0.08	0.123	23.39	24.50	1.291	0.159	/
	10				23060	704	25	Mid	-0.14	0.101	22.56	23.50	1.242	0.125	/	
	state15&17&19			Top Edge	10	23060	704	1	Low	0.12	0.085	23.39	24.50	1.291	0.110	/
	10				23060	704	25	Mid	0.08	0.070	22.56	23.50	1.242	0.087	/	
Ant.0	state15&17&19	QPSK	SA	Front Side	10	23060	704	1	Low	0.13	0.105	23.42	24.50	1.282	0.135	/
	10				23060	704	25	High	-0.04	0.087	22.57	23.50	1.239	0.108	/	
	state15&17&19			Back Side	10	23060	704	1	Low	0.11	0.135	23.42	24.50	1.282	<b>0.173</b>	33#
	10				23060	704	25	High	-0.17	0.111	22.57	23.50	1.239	0.138	/	
	state15&17&19			Left Edge	10	23060	704	1	Low	-0.09	0.102	23.42	24.50	1.282	0.131	/
	10				23060	704	25	High	0.11	0.083	22.57	23.50	1.239	0.103	/	
	state15&17&19			Right Edge	10	23060	704	1	Low	-0.17	0.124	23.42	24.50	1.282	0.159	/
	10				23060	704	25	High	0.16	0.103	22.57	23.50	1.239	0.128	/	
	state15&17&19			Bottom Edge	10	23060	704	1	Low	0.09	0.088	23.42	24.50	1.282	0.113	/
	10				23060	704	25	High	-0.04	0.072	22.57	23.50	1.239	0.089	/	

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

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

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>																
Ant.1	state12	QPSK	SA	Left Cheek	0	23230	782	1	Mid	-0.03	0.295	23.28	24.50	1.324	0.391	/
	0				23230	782	25	High	0.01	0.243	22.62	23.50	1.225	0.298	/	
	state12			Left Tilt	0	23230	782	1	Mid	0.16	0.271	23.28	24.50	1.324	0.359	/
	state12				0	23230	782	25	High	-0.13	0.219	22.62	23.50	1.225	0.268	/
	state12			Right Cheek	0	23230	782	1	Mid	-0.07	0.492	23.28	24.50	1.324	<b>0.652</b>	34#
	state12				0	23230	782	25	High	0.08	0.395	22.62	23.50	1.225	0.484	/
	state12			Right Tilt	0	23230	782	1	Mid	0.03	0.381	23.28	24.50	1.324	0.505	/
	state12				0	23230	782	25	High	-0.07	0.310	22.62	23.50	1.225	0.380	/
Ant.1	state16	QPSK	SA	Left Cheek	0	23230	782	1	Low	0.15	0.240	22.05	23.00	1.245	0.299	/
	0				23230	782	25	Low	0.14	0.247	22.07	23.00	1.239	0.306	/	
	state16			Left Tilt	0	23230	782	1	Low	0.13	0.219	22.05	23.00	1.245	0.273	/
	state16				0	23230	782	25	Low	0.06	0.226	22.07	23.00	1.239	0.280	/
	state16			Right Cheek	0	23230	782	1	Low	0.00	0.375	22.05	23.00	1.245	0.467	/
	state16				0	23230	782	25	Low	-0.01	0.387	22.07	23.00	1.239	0.479	/
	state16			Right Tilt	0	23230	782	1	Low	-0.01	0.294	22.05	23.00	1.245	0.366	/
	state16				0	23230	782	25	Low	0.14	0.303	22.07	23.00	1.239	0.375	/
Ant.1	state18&20	QPSK	SA	Left Cheek	0	23230	782	1	High	-0.18	0.136	19.50	20.50	1.259	0.171	/
	0				23230	782	25	High	0.02	0.142	19.57	20.50	1.239	0.176	/	
	state18&20			Left Tilt	0	23230	782	1	High	0.03	0.118	19.50	20.50	1.259	0.149	/
	state18&20				0	23230	782	25	High	-0.14	0.125	19.57	20.50	1.239	0.155	/
	state18&20			Right Cheek	0	23230	782	1	High	0.03	0.212	19.50	20.50	1.259	0.267	/
	state18&20				0	23230	782	25	High	0.19	0.216	19.57	20.50	1.239	0.268	/
	state18&20			Right Tilt	0	23230	782	1	High	0.03	0.160	19.50	20.50	1.259	0.201	/
	state18&20				0	23230	782	25	High	0.07	0.167	19.57	20.50	1.239	0.207	/
Ant.0	state12&16&18&20	QPSK	SA	Left Cheek	0	23230	782	1	High	-0.11	0.128	23.34	24.50	1.306	0.167	/
	0				23230	782	25	High	-0.12	0.099	22.45	23.50	1.274	0.126	/	
	state12&16&18&20			Left Tilt	0	23230	782	1	High	-0.11	0.071	23.34	24.50	1.306	0.093	/
	state12&16&18&20				0	23230	782	25	High	-0.18	0.059	22.45	23.50	1.274	0.075	/
	state12&16&18&20			Right Cheek	0	23230	782	1	High	0.08	0.096	23.34	24.50	1.306	0.125	/
	state12&16&18&20				0	23230	782	25	High	0.14	0.084	22.45	23.50	1.274	0.107	/
	state12&16&18&20			Right Tilt	0	23230	782	1	High	-0.01	0.061	23.34	24.50	1.306	0.080	/
	state12&16&18&20				0	23230	782	25	High	0.14	0.048	22.45	23.50	1.274	0.061	/
<b>Body-worn</b>																
Ant.1	state11	QPSK	SA	Front Side	15	23230	782	1	Mid	-0.08	0.110	23.28	24.50	1.324	0.146	/
	15				23230	782	25	High	0.07	0.089	22.62	23.50	1.225	0.109	/	
	state11			Back Side	15	23230	782	1	Mid	-0.10	0.135	23.28	24.50	1.324	0.179	/

	state11				15	23230	782	25	High	-0.14	0.110	22.62	23.50	1.225	0.135	/	
Ant.0	state11	QPSK	SA	Front Side	15	23230	782	1	Low	-0.08	0.137	23.34	24.50	1.306	0.179	/	
	state11				15	23230	782	25	Low	0.11	0.112	22.45	23.50	1.274	0.143	/	
	state11			Back Side	15	23230	782	1	Low	0.09	0.187	23.34	24.50	1.306	<b>0.244</b>	35#	
	state11				15	23230	782	25	Low	-0.12	0.149	22.45	23.50	1.274	0.190	/	
<b>Hotspot</b>																	
Ant.1	state15&17&19	QPSK	SA	Front Side	10	23230	782	1	Mid	-0.08	0.107	23.28	24.50	1.324	0.142	/	
	state15&17&19				10	23230	782	25	High	-0.14	0.087	22.62	23.50	1.225	0.107	/	
	state15&17&19			Back Side	10	23230	782	1	Mid	0.02	0.150	23.28	24.50	1.324	0.199	/	
	state15&17&19				10	23230	782	25	High	-0.14	0.121	22.62	23.50	1.225	0.148	/	
	state15&17&19			Right Edge	10	23230	782	1	Mid	0.17	0.131	23.28	24.50	1.324	0.173	/	
	state15&17&19				10	23230	782	25	High	0.13	0.104	22.62	23.50	1.225	0.127	/	
	state15&17&19			Top Edge	10	23230	782	1	Mid	-0.06	0.105	23.28	24.50	1.324	0.139	/	
	state15&17&19				10	23230	782	25	High	0.03	0.086	22.62	23.50	1.225	0.105	/	
Ant.0	state15&17&19	QPSK	SA	Front Side	10	23230	782	1	High	-0.03	0.119	23.34	24.50	1.306	0.155	/	
	state15&17&19				10	23230	782	25	High	0.05	0.097	22.45	23.50	1.274	0.124	/	
	state15&17&19			Back Side	10	23230	782	1	High	0.14	0.194	23.34	24.50	1.306	<b>0.253</b>	36#	
	state15&17&19				10	23230	782	25	High	0.07	0.156	22.45	23.50	1.274	0.199	/	
	state15&17&19			Left Edge	10	23230	782	1	High	0.09	0.101	23.34	24.50	1.306	0.132	/	
	state15&17&19				10	23230	782	25	High	-0.08	0.080	22.45	23.50	1.274	0.102	/	
	state15&17&19			Right Edge	10	23230	782	1	High	0.07	0.169	23.34	24.50	1.306	0.221	/	
	state15&17&19				10	23230	782	25	High	-0.19	0.138	22.45	23.50	1.274	0.176	/	
	state15&17&19			Bottom Edge	10	23230	782	1	High	0.12	0.140	23.34	24.50	1.306	0.183	/	
	state15&17&19				10	23230	782	25	High	-0.10	0.115	22.45	23.50	1.274	0.146	/	
Note: Refer to ANNEX C for the detailed test data for each test configuration.																	

### 10.13 LTE Band 17 (10MHz Bandwidth)

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.	
<b>Head</b>																	
Ant.1	state12	QPSK	SA	Left Cheek	0	23780	709	1	Mid	-0.09	0.263	23.43	24.50	1.279	0.336	/	
	state12				0	23780	709	25	Mid	0.08	0.217	22.56	23.50	1.242	0.269	/	
	state12			Left Tilt	0	23780	709	1	Mid	-0.14	0.256	23.43	24.50	1.279	0.328	/	
	state12				0	23780	709	25	Mid	-0.03	0.208	22.56	23.50	1.242	0.258	/	
	state12			Right Cheek	0	23780	709	1	Mid	0.05	0.436	23.43	24.50	1.279	<b>0.558</b>	37#	
	state12				0	23780	709	25	Mid	0.13	0.362	22.56	23.50	1.242	0.449	/	
	state12			Right Tilt	0	23780	709	1	Mid	0.10	0.368	23.43	24.50	1.279	0.471	/	
	state12				0	23780	709	25	Mid	0.19	0.297	22.56	23.50	1.242	0.369	/	
Ant.1	state16	QPSK	SA	Left Cheek	0	23790	710	1	Mid	0.12	0.180	21.95	23.00	1.274	0.229	/	
	state16				0	23790	710	25	High	0.11	0.186	22.10	23.00	1.230	0.229	/	
	state16			Left Tilt	0	23790	710	1	Mid	0.05	0.179	21.95	23.00	1.274	0.228	/	
	state16				0	23790	710	25	High	0.16	0.185	22.10	23.00	1.230	0.228	/	

	state16			Right Cheek	0	23790	710	1	Mid	-0.01	0.297	21.95	23.00	1.274	0.378	/
	state16				0	23790	710	25	High	-0.17	0.314	22.10	23.00	1.230	0.386	/
	state16			Right Tilt	0	23790	710	1	Mid	0.13	0.258	21.95	23.00	1.274	0.329	/
	state16				0	23790	710	25	High	0.17	0.266	22.10	23.00	1.230	0.327	/
Ant.1	state18&20	QPSK	SA	Left Cheek	0	23790	710	1	Low	0.00	0.099	19.18	20.50	1.355	0.134	/
	state18&20				0	23790	710	25	High	-0.02	0.101	19.34	20.50	1.306	0.132	/
	state18&20			Left Tilt	0	23790	710	1	Low	-0.19	0.097	19.18	20.50	1.355	0.131	/
	state18&20				0	23790	710	25	High	-0.14	0.102	19.34	20.50	1.306	0.133	/
	state18&20			Right Cheek	0	23790	710	1	Low	0.18	0.164	19.18	20.50	1.355	0.222	/
	state18&20				0	23790	710	25	High	0.16	0.177	19.34	20.50	1.306	0.231	/
	state18&20			Right Tilt	0	23790	710	1	Low	0.19	0.141	19.18	20.50	1.355	0.191	/
	state18&20				0	23790	710	25	High	0.09	0.153	19.34	20.50	1.306	0.200	/
Ant.0	state12&16&18&20	QPSK	SA	Left Cheek	0	23780	709	1	Low	0.09	0.098	23.58	24.50	1.236	0.121	/
	state12&16&18&20				0	23780	709	25	High	-0.02	0.081	22.63	23.50	1.222	0.099	/
	state12&16&18&20			Left Tilt	0	23780	709	1	Low	0.15	0.046	23.58	24.50	1.236	0.057	/
	state12&16&18&20				0	23780	709	25	High	0.09	0.037	22.63	23.50	1.222	0.045	/
	state12&16&18&20			Right Cheek	0	23780	709	1	Low	0.02	0.078	23.58	24.50	1.236	0.096	/
	state12&16&18&20				0	23780	709	25	High	0.10	0.063	22.63	23.50	1.222	0.077	/
	state12&16&18&20			Right Tilt	0	23780	709	1	Low	0.06	0.059	23.58	24.50	1.236	0.073	/
	state12&16&18&20				0	23780	709	25	High	-0.14	0.048	22.63	23.50	1.222	0.059	/
<b>Body-worn</b>																
Ant.1	state11	QPSK	SA	Front Side	15	23780	709	1	Mid	0.15	0.118	23.43	24.50	1.279	0.151	/
	state11				15	23780	709	25	Mid	0.00	0.097	22.56	23.50	1.242	0.120	/
	state11			Back Side	15	23780	709	1	Mid	0.15	0.135	23.43	24.50	1.279	<b>0.173</b>	<b>38#</b>
	state11				15	23780	709	25	Mid	-0.01	0.110	22.56	23.50	1.242	0.137	/
Ant.0	state11	QPSK	SA	Front Side	15	23780	709	1	Low	-0.05	0.096	23.58	24.50	1.236	0.119	/
	state11				15	23780	709	25	High	0.12	0.079	22.63	23.50	1.222	0.097	/
	state11			Back Side	15	23780	709	1	Low	0.14	0.128	23.58	24.50	1.236	0.158	/
	state11				15	23780	709	25	High	0.00	0.106	22.63	23.50	1.222	0.130	/
<b>Hotspot</b>																
Ant.1	state15&17&19	QPSK	SA	Front Side	10	23780	709	1	Mid	-0.19	0.087	23.43	24.50	1.279	0.111	/
	state15&17&19				10	23780	709	25	Mid	0.13	0.072	22.56	23.50	1.242	0.089	/
	state15&17&19			Back Side	10	23780	709	1	Mid	0.10	0.133	23.43	24.50	1.279	0.170	/
	state15&17&19				10	23780	709	25	Mid	0.12	0.094	22.56	23.50	1.242	0.117	/
	state15&17&19			Right Edge	10	23780	709	1	Mid	-0.09	0.118	23.43	24.50	1.279	0.151	/
	state15&17&19				10	23780	709	25	Mid	0.14	0.095	22.56	23.50	1.242	0.118	/
	state15&17&19			Top Edge	10	23780	709	1	Mid	0.07	0.075	23.43	24.50	1.279	0.096	/
	state15&17&19				10	23780	709	25	Mid	-0.06	0.062	22.56	23.50	1.242	0.077	/
Ant.0	state15&17&19	QPSK	SA	Front Side	10	23780	709	1	Low	-0.10	0.108	23.58	24.50	1.236	0.133	/
	state15&17&19				10	23780	709	25	High	-0.08	0.086	22.63	23.50	1.222	0.105	/
	state15&17&19			Back Side	10	23780	709	1	Low	0.09	0.140	23.58	24.50	1.236	<b>0.173</b>	<b>39#</b>
	state15&17&19				10	23780	709	25	High	-0.08	0.114	22.63	23.50	1.222	0.139	/
	state15&17&19			Left Edge	10	23780	709	1	Low	-0.04	0.104	23.58	24.50	1.236	0.129	/
	state15&17&19				10	23780	709	25	High	0.18	0.083	22.63	23.50	1.222	0.101	/
	state15&17&19			Right Edge	10	23780	709	1	Low	-0.16	0.132	23.58	24.50	1.236	0.163	/

	state15&17&19			Bottom Edge	10	23780	709	25	High	-0.17	0.105	22.63	23.50	1.222	0.128	/
	state15&17&19				10	23780	709	1	Low	0.13	0.081	23.58	24.50	1.236	0.100	/
	state15&17&19				10	23780	709	25	High	0.09	0.064	22.63	23.50	1.222	0.078	/

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

### 10.14 LTE Band 26 (15MHz Bandwidth)

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>																
Ant.1	state12	QPSK	SA	Left Cheek	0	26765	821.5	1	Low	0.14	0.445	23.28	24.00	1.180	0.525	/
	0				26765	821.5	36	Mid	0.18	0.359	22.38	23.00	1.153	0.414	/	
	state12			Left Tilt	0	26765	821.5	1	Low	0.12	0.402	23.28	24.00	1.180	0.474	/
	0				26765	821.5	36	Mid	-0.18	0.331	22.38	23.00	1.153	0.382	/	
	state12			Right Cheek	0	26765	821.5	1	Low	-0.02	0.635	23.28	24.00	1.180	<b>0.750</b>	<b>40#</b>
	0				26765	821.5	36	Mid	0.08	0.513	22.38	23.00	1.153	0.592	/	
	state12			Right Tilt	0	26765	821.5	1	Low	0.04	0.538	23.28	24.00	1.180	0.635	/
	0				26765	821.5	36	Mid	0.16	0.446	22.38	23.00	1.153	0.514	/	
Ant.1	state16	QPSK	SA	Left Cheek	0	26765	821.5	1	Low	0.14	0.349	20.51	21.50	1.256	0.438	/
	0				26765	821.5	36	Mid	-0.13	0.370	20.67	21.50	1.211	0.448	/	
	state16			Left Tilt	0	26765	821.5	1	Low	0.02	0.328	20.51	21.50	1.256	0.412	/
	0				26765	821.5	36	Mid	0.04	0.334	20.67	21.50	1.211	0.404	/	
	state16			Right Cheek	0	26765	821.5	1	Low	0.03	0.488	20.51	21.50	1.256	0.613	/
	0				26765	821.5	36	Mid	-0.06	0.515	20.67	21.50	1.211	0.623	/	
	state16			Right Tilt	0	26765	821.5	1	Low	0.00	0.428	20.51	21.50	1.256	0.538	/
	0				26765	821.5	36	Mid	-0.19	0.439	20.67	21.50	1.211	0.531	/	
Ant.1	state18&20	QPSK	SA	Left Cheek	0	26765	821.5	1	Low	-0.05	0.141	16.53	17.50	1.250	0.176	/
	0				26765	821.5	36	Mid	-0.16	0.149	16.64	17.50	1.219	0.182	/	
	state18&20			Left Tilt	0	26765	821.5	1	Low	-0.07	0.129	16.53	17.50	1.250	0.161	/
	0				26765	821.5	36	Mid	0.12	0.133	16.64	17.50	1.219	0.162	/	
	state18&20			Right Cheek	0	26765	821.5	1	Low	-0.09	0.200	16.53	17.50	1.250	0.250	/
	0				26765	821.5	36	Mid	-0.07	0.206	16.64	17.50	1.219	0.251	/	
	state18&20			Right Tilt	0	26765	821.5	1	Low	0.12	0.167	16.53	17.50	1.250	0.209	/
	0				26765	821.5	36	Mid	0.11	0.172	16.64	17.50	1.219	0.210	/	
Ant.1	state12	QPSK	NSA	Left Cheek	0	26765	821.5	1	Low	-0.13	0.307	20.51	21.00	1.119	0.344	/
	0				26765	821.5	36	Mid	0.04	0.336	20.67	21.00	1.079	0.363	/	
	state12			Left Tilt	0	26765	821.5	1	Low	-0.14	0.295	20.51	21.00	1.119	0.330	/
	0				26765	821.5	36	Mid	0.11	0.303	20.67	21.00	1.079	0.327	/	
	state12			Right Cheek	0	26765	821.5	1	Low	0.13	0.429	20.51	21.00	1.119	0.480	/
	0				26765	821.5	36	Mid	0.10	0.435	20.67	21.00	1.079	0.469	/	
	state12			Right Tilt	0	26765	821.5	1	Low	0.08	0.371	20.51	21.00	1.119	0.415	/
	0				26765	821.5	36	Mid	-0.18	0.377	20.67	21.00	1.079	0.407	/	
Ant.1	state16&20	QPSK	NSA	Left Cheek	0	26765	821.5	1	Low	0.00	0.197	18.11	19.00	1.227	0.242	/

	state16&20				0	26765	821.5	36	Low	0.09	0.208	18.07	19.00	1.239	0.258	/	
	state16&20				Left Tilt	0	26765	821.5	1	Low	-0.11	0.178	18.11	19.00	1.227	0.218	/
	state16&20					0	26765	821.5	36	Low	0.04	0.187	18.07	19.00	1.239	0.232	/
	state16&20				Right Cheek	0	26765	821.5	1	Low	0.01	0.269	18.11	19.00	1.227	0.330	/
	state16&20					0	26765	821.5	36	Low	-0.01	0.273	18.07	19.00	1.239	0.338	/
	state16&20				Right Tilt	0	26765	821.5	1	Low	-0.03	0.224	18.11	19.00	1.227	0.275	/
	state16&20					0	26765	821.5	36	Low	-0.06	0.242	18.07	19.00	1.239	0.300	/
Ant.1	state18	QPSK	NSA	Left Cheek	0	26765	821.5	1	Low	-0.01	0.121	16.53	17.00	1.114	0.135	/	
	state18				0	26765	821.5	36	Mid	-0.08	0.130	16.64	17.00	1.086	0.141	/	
	state18			Left Tilt	0	26765	821.5	1	Low	-0.01	0.111	16.53	17.00	1.114	0.124	/	
	state18				0	26765	821.5	36	Mid	0.14	0.119	16.64	17.00	1.086	0.129	/	
	state18			Right Cheek	0	26765	821.5	1	Low	-0.03	0.167	16.53	17.00	1.114	0.186	/	
	state18				0	26765	821.5	36	Mid	0.06	0.172	16.64	17.00	1.086	0.187	/	
	state18			Right Tilt	0	26765	821.5	1	Low	-0.17	0.138	16.53	17.00	1.114	0.154	/	
	state18				0	26765	821.5	36	Mid	0.10	0.153	16.64	17.00	1.086	0.166	/	
Ant.0	state12&16&18&20	QPSK	SA	Left Cheek	0	26765	821.5	1	Low	0.16	0.105	23.33	24.00	1.167	0.123	/	
	state12&16&18&20				0	26765	821.5	36	Low	-0.14	0.086	22.44	23.00	1.138	0.098	/	
	state12&16&18&20			Left Tilt	0	26765	821.5	1	Low	0.10	0.053	23.33	24.00	1.167	0.062	/	
	state12&16&18&20				0	26765	821.5	36	Low	-0.12	0.043	22.44	23.00	1.138	0.049	/	
	state12&16&18&20			Right Cheek	0	26765	821.5	1	Low	0.10	0.088	23.33	24.00	1.167	0.103	/	
	state12&16&18&20				0	26765	821.5	36	Low	-0.09	0.071	22.44	23.00	1.138	0.081	/	
	state12&16&18&20			Right Tilt	0	26765	821.5	1	Low	0.11	0.049	23.33	24.00	1.167	0.057	/	
	state12&16&18&20				0	26765	821.5	36	Low	-0.17	0.039	22.44	23.00	1.138	0.044	/	
<b>Body-worn</b>																	
Ant.1	state11	QPSK	SA	Front Side	15	26865	831.5	1	Low	0.16	0.100	22.06	23.00	1.242	0.124	/	
	state11				15	26865	831.5	36	Mid	-0.02	0.104	21.91	23.00	1.285	0.134	/	
	state11			Back Side	15	26865	831.5	1	Low	0.03	0.133	22.06	23.00	1.242	0.165	/	
	state11				15	26865	831.5	36	Mid	0.07	0.141	21.91	23.00	1.285	<b>0.181</b>	41#	
Ant.1	state11	QPSK	NSA	Front Side	15	26865	831.5	1	High	0.16	0.056	19.78	20.50	1.180	0.066	/	
	state11				15	26865	831.5	36	High	-0.14	0.060	19.78	20.50	1.180	0.071	/	
	state11			Back Side	15	26865	831.5	1	High	-0.11	0.077	19.78	20.50	1.180	0.091	/	
	state11				15	26865	831.5	36	High	0.18	0.079	19.78	20.50	1.180	0.093	/	
Ant.0	state11	QPSK	SA	Front Side	15	26765	821.5	1	Low	0.10	0.085	23.33	24.00	1.167	0.099	/	
	state11				15	26765	821.5	36	Low	0.12	0.068	22.44	23.00	1.138	0.077	/	
	state11			Back Side	15	26765	821.5	1	Low	0.07	0.114	23.33	24.00	1.167	0.133	/	
	state11				15	26765	821.5	36	Low	0.05	0.094	22.44	23.00	1.138	0.107	/	
<b>Hotspot</b>																	
Ant.1	state15&19	QPSK	SA	Front Side	10	26765	821.5	1	Low	0.08	0.145	20.51	21.50	1.256	0.182	/	
	state15&19				10	26765	821.5	36	Mid	-0.15	0.152	20.67	21.50	1.211	0.184	/	
	state15&19			Back Side	10	26765	821.5	1	Low	0.18	0.169	20.51	21.50	1.256	0.212	/	
	state15&19				10	26765	821.5	36	Mid	0.10	0.177	20.67	21.50	1.211	<b>0.214</b>	42#	
	state15&19			Right Edge	10	26765	821.5	1	Low	0.03	0.089	20.51	21.50	1.256	0.112	/	
	state15&19				10	26765	821.5	36	Mid	0.14	0.094	20.67	21.50	1.211	0.114	/	
	state15&19			Top Edge	10	26765	821.5	1	Low	0.13	0.152	20.51	21.50	1.256	0.191	/	
	state15&19				10	26765	821.5	36	Mid	0.19	0.157	20.67	21.50	1.211	0.190	/	

Ant.1	state17	QPSK	SA	Front Side	10	26765	821.5	1	Low	0.03	0.104	18.99	20.00	1.262	0.131	/
	state17				10	26765	821.5	36	Mid	0.18	0.110	19.13	20.00	1.222	0.134	/
	state17			Back Side	10	26765	821.5	1	Low	-0.17	0.118	18.99	20.00	1.262	0.149	/
	state17				10	26765	821.5	36	Mid	-0.11	0.121	19.13	20.00	1.222	0.148	/
	state17			Right Edge	10	26765	821.5	1	Low	-0.19	0.065	18.99	20.00	1.262	0.082	/
	state17				10	26765	821.5	36	Mid	0.12	0.067	19.13	20.00	1.222	0.082	/
	state17			Top Edge	10	26765	821.5	1	Low	-0.02	0.108	18.99	20.00	1.262	0.136	/
	state17				10	26765	821.5	36	Mid	-0.14	0.111	19.13	20.00	1.222	0.136	/
Ant.1	state15&19	QPSK	NSA	Front Side	10	26865	831.5	1	Low	0.15	0.070	17.62	18.50	1.225	0.086	/
	state15&19				10	26865	831.5	36	Low	-0.04	0.075	17.69	18.50	1.205	0.090	/
	state15&19			Back Side	10	26865	831.5	1	Low	-0.04	0.087	17.62	18.50	1.225	0.107	/
	state15&19				10	26865	831.5	36	Low	0.06	0.086	17.69	18.50	1.205	0.104	/
	state15&19			Right Edge	10	26865	831.5	1	Low	-0.02	0.043	17.62	18.50	1.225	0.053	/
	state15&19				10	26865	831.5	36	Low	0.19	0.045	17.69	18.50	1.205	0.054	/
	state15&19			Top Edge	10	26865	831.5	1	Low	-0.10	0.076	17.62	18.50	1.225	0.093	/
	state15&19				10	26865	831.5	36	Low	-0.06	0.081	17.69	18.50	1.205	0.098	/
Ant.1	state17	QPSK	NSA	Front Side	10	26865	831.5	1	Low	-0.15	0.045	15.59	16.50	1.233	0.055	/
	state17				10	26865	831.5	36	Low	0.17	0.048	15.56	16.50	1.242	0.060	/
	state17			Back Side	10	26865	831.5	1	Low	0.13	0.055	15.59	16.50	1.233	0.068	/
	state17				10	26865	831.5	36	Low	-0.16	0.055	15.56	16.50	1.242	0.068	/
	state17			Right Edge	10	26865	831.5	1	Low	0.11	0.027	15.59	16.50	1.233	0.033	/
	state17				10	26865	831.5	36	Low	-0.05	0.027	15.56	16.50	1.242	0.034	/
	state17			Top Edge	10	26865	831.5	1	Low	-0.05	0.048	15.59	16.50	1.233	0.059	/
	state17				10	26865	831.5	36	Low	0.18	0.051	15.56	16.50	1.242	0.063	/
Ant.0	state15&17&19	QPSK	SA	Front Side	10	26765	821.5	1	Low	0.00	0.096	23.33	24.00	1.167	0.112	/
	state15&17&19				10	26765	821.5	36	Low	-0.13	0.079	22.44	23.00	1.138	0.090	/
	state15&17&19			Back Side	10	26765	821.5	1	Low	0.18	0.145	23.33	24.00	1.167	0.169	/
	state15&17&19				10	26765	821.5	36	Low	0.05	0.117	22.44	23.00	1.138	0.133	/
	state15&17&19			Left Edge	10	26765	821.5	1	Low	0.02	0.062	23.33	24.00	1.167	0.072	/
	state15&17&19				10	26765	821.5	36	Low	0.04	0.051	22.44	23.00	1.138	0.058	/
	state15&17&19			Right Edge	10	26765	821.5	1	Low	-0.18	0.077	23.33	24.00	1.167	0.090	/
	state15&17&19				10	26765	821.5	36	Low	0.05	0.062	22.44	23.00	1.138	0.071	/
	state15&17&19			Bottom Edge	10	26765	821.5	1	Low	0.13	0.101	23.33	24.00	1.167	0.118	/
	state15&17&19				10	26765	821.5	36	Low	0.08	0.082	22.44	23.00	1.138	0.093	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

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

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																
Ant.1	state12&16	QPSK	SA	Left Cheek	0	132322	1745	1	Low	0.03	0.370	17.46	19.00	1.426	0.527	/
	state12&16				0	132322	1745	50	Mid	-0.17	0.378	17.55	19.00	1.396	0.528	/

	state12&16			Left Tilt	0	132322	1745	1	Low	-0.17	0.449	17.46	19.00	1.426	0.640	/			
	state12&16				0	132322	1745	50	Mid	-0.09	0.455	17.55	19.00	1.396	0.635	/			
	state12&16			Right Cheek	0	132322	1745	1	Low	-0.16	0.618	17.46	19.00	1.426	0.881	/			
	state12&16				0	132072	1720	1	Low	-0.19	0.579	17.43	19.00	1.435	0.831	/			
	state12&16				0	132572	1770	1	Low	0.18	0.622	17.44	19.00	1.432	0.891	/			
	state12&16				0	132322	1745	50	Low	0.08	0.630	17.55	19.00	1.396	0.880	/			
	state12&16				0	132072	1720	50	Low	-0.03	0.592	17.53	19.00	1.403	0.830	/			
	state12&16				0	132572	1770	50	Low	-0.18	0.628	17.44	19.00	1.432	0.899	/			
	state12&16				0	132072	1720	100	Low	0.08	0.619	17.52	19.00	1.406	0.870	/			
	state12&16				Right Tilt	0	132322	1745	1	Low	-0.13	0.706	17.46	19.00	1.426	1.006	/		
	state12&16					0	132072	1720	1	Low	0.05	0.694	17.43	19.00	1.435	0.996	/		
	state12&16			0		132572	1770	1	Low	0.00	0.713	17.44	19.00	1.432	1.021	/			
	state12&16			0		132322	1745	50	Low	0.08	0.719	17.55	19.00	1.396	1.004	/			
	state12&16			0		132072	1720	50	Low	-0.16	0.708	17.53	19.00	1.403	0.993	/			
	state12&16			0		132572	1770	50	Low	0.01	0.723	17.44	19.00	1.432	<b>1.035</b>	<b>43#</b>			
	state12&16			0	132072	1720	100	Low	-0.19	0.708	17.52	19.00	1.406	0.995	/				
	Ant.1			state18&20	QPSK	SA	Left Cheek	0	132072	1720	1	High	-0.18	0.052	9.10	10.50	1.380	0.072	/
				state18&20				0	132072	1720	50	High	0.06	0.055	9.14	10.50	1.368	0.075	/
state18&20		Left Tilt	0	132072			1720	1	High	0.07	0.064	9.10	10.50	1.380	0.088	/			
state18&20			0	132072			1720	50	High	0.17	0.066	9.14	10.50	1.368	0.090	/			
state18&20		Right Cheek	0	132072			1720	1	High	0.17	0.088	9.10	10.50	1.380	0.121	/			
state18&20			0	132072			1720	50	High	0.15	0.094	9.14	10.50	1.368	0.129	/			
state18&20		Right Tilt	0	132072			1720	1	High	-0.15	0.101	9.10	10.50	1.380	0.139	/			
state18&20			0	132322			1745	50	High	-0.16	0.105	9.14	10.50	1.368	0.144	/			
Ant.1	state12	QPSK	NSA	Left Cheek	0	132072	1720	1	Mid	0.00	0.202	15.13	16.50	1.371	0.277	/			
	state12				0	132072	1720	50	Mid	0.01	0.209	15.18	16.50	1.355	0.283	/			
	state12			Left Tilt	0	132072	1720	1	Mid	0.02	0.242	15.13	16.50	1.371	0.332	/			
	state12				0	132072	1720	50	Mid	-0.11	0.260	15.18	16.50	1.355	0.352	/			
	state12			Right Cheek	0	132072	1720	1	Mid	0.12	0.351	15.13	16.50	1.371	0.481	/			
	state12				0	132072	1720	50	Mid	0.03	0.354	15.18	16.50	1.355	0.480	/			
	state12			Right Tilt	0	132072	1720	1	Mid	0.16	0.384	15.13	16.50	1.371	0.526	/			
	state12				0	132322	1745	50	Mid	-0.09	0.392	15.18	16.50	1.355	0.531	/			
Ant.1	state16&20	QPSK	NSA	Left Cheek	0	132072	1720	1	Mid	0.11	0.148	13.26	14.50	1.330	0.197	/			
	state16&20				0	132072	1720	50	Mid	-0.06	0.149	13.22	14.50	1.343	0.200	/			
	state16&20			Left Tilt	0	132072	1720	1	Mid	-0.06	0.184	13.26	14.50	1.330	0.245	/			
	state16&20				0	132072	1720	50	Mid	-0.17	0.185	13.22	14.50	1.343	0.248	/			
	state16&20			Right Cheek	0	132072	1720	1	Mid	0.10	0.242	13.26	14.50	1.330	0.322	/			
	state16&20				0	132072	1720	50	Mid	0.09	0.251	13.22	14.50	1.343	0.337	/			
	state16&20			Right Tilt	0	132072	1720	1	Mid	0.11	0.288	13.26	14.50	1.330	0.383	/			
	state16&20				0	132322	1745	50	Mid	0.19	0.294	13.22	14.50	1.343	0.395	/			
Ant.1	state18	QPSK	NSA	Left Cheek	0	132072	1720	1	Low	0.06	0.090	11.14	12.00	1.219	0.110	/			
	state18				0	132072	1720	50	Mid	0.06	0.088	11.13	12.00	1.222	0.108	/			
	state18			Left Tilt	0	132072	1720	1	Low	0.01	0.110	11.14	12.00	1.219	0.134	/			
	state18				0	132072	1720	50	Mid	-0.05	0.112	11.13	12.00	1.222	0.137	/			
	state18			Right Cheek	0	132072	1720	1	Low	0.08	0.142	11.14	12.00	1.219	0.173	/			



	state18				0	132072	1720	50	Mid	-0.03	0.146	11.13	12.00	1.222	0.178	/
	state18			Right Tilt	0	132072	1720	1	Low	0.04	0.162	11.14	12.00	1.219	0.197	/
	state18				0	132072	1720	50	Mid	0.06	0.169	11.13	12.00	1.222	0.206	/
Ant.0	state12&16&18&20	QPSK	SA&NSA	Left Cheek	0	132322	1745	1	Low	0.05	0.103	23.11	24.00	1.227	0.126	/
	0				132322	1745	50	Low	-0.03	0.084	22.20	23.00	1.202	0.101	/	
	state12&16&18&20			Left Tilt	0	132322	1745	1	Low	-0.13	0.079	23.11	24.00	1.227	0.097	/
	state12&16&18&20				0	132322	1745	50	Low	0.14	0.064	22.20	23.00	1.202	0.077	/
	state12&16&18&20			Right Cheek	0	132322	1745	1	Low	-0.15	0.087	23.11	24.00	1.227	0.107	/
	state12&16&18&20				0	132322	1745	50	Low	0.06	0.072	22.20	23.00	1.202	0.087	/
	state12&16&18&20			Right Tilt	0	132322	1745	1	Low	0.14	0.084	23.11	24.00	1.227	0.103	/
	state12&16&18&20				0	132322	1745	50	Low	0.08	0.069	22.20	23.00	1.202	0.083	/
Ant.3	state12	QPSK	NSA	Left Cheek	0	132322	1745	1	Low	-0.16	0.024	21.27	23.00	1.489	0.036	/
	0				132322	1745	50	Low	-0.19	0.030	21.23	23.00	1.503	0.045	/	
	state12			Left Tilt	0	132322	1745	1	Low	-0.15	0.008	21.27	23.00	1.489	0.012	/
	state12				0	132322	1745	50	Low	-0.10	0.010	21.23	23.00	1.503	0.015	/
	state12			Right Cheek	0	132322	1745	1	Low	0.16	0.017	21.27	23.00	1.489	0.025	/
	state12				0	132322	1745	50	Low	-0.18	0.019	21.23	23.00	1.503	0.029	/
	state12			Right Tilt	0	132322	1745	1	Low	-0.10	0.006	21.27	23.00	1.489	0.009	/
	state12				0	132322	1745	50	Low	0.13	0.006	21.23	23.00	1.503	0.009	/
Ant.3	state16&20	QPSK	NSA	Left Cheek	0	132322	1745	1	Low	-0.16	0.024	21.27	22.50	1.327	0.032	/
	0				132322	1745	50	Low	-0.19	0.030	21.23	22.50	1.340	0.040	/	
	state16&20			Left Tilt	0	132322	1745	1	Low	-0.15	0.008	21.27	22.50	1.327	0.011	/
	state16&20				0	132322	1745	50	Low	-0.10	0.010	21.23	22.50	1.340	0.013	/
	state16&20			Right Cheek	0	132322	1745	1	Low	0.16	0.017	21.27	22.50	1.327	0.023	/
	state16&20				0	132322	1745	50	Low	-0.18	0.019	21.23	22.50	1.340	0.025	/
	state16&20			Right Tilt	0	132322	1745	1	Low	-0.10	0.006	21.27	22.50	1.327	0.008	/
	state16&20				0	132322	1745	50	Low	0.13	0.006	21.23	22.50	1.340	0.008	/
Ant.3	state18	QPSK	NSA	Left Cheek	0	132322	1745	1	Low	-0.16	0.024	21.27	22.00	1.183	0.028	/
	0				132322	1745	50	Low	-0.19	0.030	21.23	22.00	1.194	0.036	/	
	state18			Left Tilt	0	132322	1745	1	Low	-0.15	0.008	21.27	22.00	1.183	0.009	/
	state18				0	132322	1745	50	Low	-0.10	0.010	21.23	22.00	1.194	0.012	/
	state18			Right Cheek	0	132322	1745	1	Low	0.16	0.017	21.27	22.00	1.183	0.020	/
	state18				0	132322	1745	50	Low	-0.18	0.019	21.23	22.00	1.194	0.023	/
	state18			Right Tilt	0	132322	1745	1	Low	-0.10	0.006	21.27	22.00	1.183	0.007	/
	state18				0	132322	1745	50	Low	0.13	0.006	21.23	22.00	1.194	0.007	/
Ant.4	state12	QPSK	NSA	Left Cheek	0	132322	1745	1	Low	-0.02	0.024	21.39	23.00	1.449	0.035	/
	0				132322	1745	50	Low	-0.05	0.026	21.39	23.00	1.449	0.038	/	
	state12			Left Tilt	0	132322	1745	1	Low	-0.15	0.010	21.39	23.00	1.449	0.014	/
	state12				0	132322	1745	50	Low	0.03	0.012	21.39	23.00	1.449	0.017	/
	state12			Right Cheek	0	132322	1745	1	Low	0.13	0.023	21.39	23.00	1.449	0.033	/
	state12				0	132322	1745	50	Low	0.03	0.026	21.39	23.00	1.449	0.038	/
	state12			Right Tilt	0	132322	1745	1	Low	-0.13	0.010	21.39	23.00	1.449	0.014	/
	state12				0	132322	1745	50	Low	-0.04	0.011	21.39	23.00	1.449	0.016	/
Ant.4	state16&20	QPSK	NSA	Left Cheek	0	132322	1745	1	Low	-0.02	0.024	21.39	22.50	1.291	0.031	/
	state16&20				0	132322	1745	50	Low	-0.05	0.026	21.39	22.50	1.291	0.034	/

	state16&20			Left Tilt	0	132322	1745	1	Low	-0.15	0.010	21.39	22.50	1.291	0.013	/
	state16&20				0	132322	1745	50	Low	0.03	0.012	21.39	22.50	1.291	0.015	/
	state16&20			Right Cheek	0	132322	1745	1	Low	0.13	0.023	21.39	22.50	1.291	0.030	/
	state16&20				0	132322	1745	50	Low	0.03	0.026	21.39	22.50	1.291	0.034	/
	state16&20			Right Tilt	0	132322	1745	1	Low	-0.13	0.010	21.39	22.50	1.291	0.013	/
	state16&20				0	132322	1745	50	Low	-0.04	0.011	21.39	22.50	1.291	0.014	/
Ant.4	state18	QPSK	NSA	Left Cheek	0	132322	1745	1	Low	-0.02	0.024	21.39	22.50	1.291	0.031	/
	state18				0	132322	1745	50	Low	-0.05	0.026	21.39	22.00	1.151	0.030	/
	state18			Left Tilt	0	132322	1745	1	Low	-0.15	0.010	21.39	22.00	1.151	0.012	/
	state18				0	132322	1745	50	Low	0.03	0.012	21.39	22.00	1.151	0.014	/
	state18			Right Cheek	0	132322	1745	1	Low	0.13	0.023	21.39	22.00	1.151	0.026	/
	state18				0	132322	1745	50	Low	0.03	0.026	21.39	22.00	1.151	0.030	/
	state18			Right Tilt	0	132322	1745	1	Low	-0.13	0.010	21.39	22.00	1.151	0.012	/
	state18				0	132322	1745	50	Low	-0.04	0.011	21.39	22.00	1.151	0.013	/
<b>Body-worn</b>																
Ant.1	state11	QPSK	SA	Front Side	15	132322	1745	1	Low	0.02	0.095	18.42	20.00	1.439	0.137	/
	state11				15	132322	1745	50	Mid	-0.10	0.098	18.54	20.00	1.400	0.137	/
	state11			Back Side	15	132322	1745	1	Low	0.18	0.102	18.42	20.00	1.439	0.147	/
	state11				15	132322	1745	50	Mid	-0.18	0.106	18.54	20.00	1.400	0.148	/
Ant.1	state11	QPSK	NSA	Front Side	15	132322	1745	1	Mid	0.02	0.117	19.64	20.50	1.219	0.143	/
	state11				15	132322	1745	50	Mid	-0.10	0.124	19.66	20.50	1.213	0.150	/
	state11			Back Side	15	132322	1745	1	Mid	0.18	0.130	19.64	20.50	1.219	0.158	/
	state11				15	132322	1745	50	Mid	-0.09	0.131	19.66	20.50	1.213	<b>0.159</b>	<b>44#</b>
Ant.0	state11	QPSK	SA&NSA	Front Side	15	132322	1745	1	High	0.14	0.077	19.63	20.00	1.089	0.084	/
	state11				15	132322	1745	50	High	-0.09	0.075	19.68	20.00	1.076	0.081	/
	state11			Back Side	15	132322	1745	1	High	-0.05	0.124	19.63	20.00	1.089	0.135	/
	state11				15	132322	1745	50	High	0.13	0.130	19.68	20.00	1.076	0.140	/
Ant.3	state11	QPSK	NSA	Front Side	15	132322	1745	1	Mid	0.06	0.009	22.34	24.00	1.466	0.013	/
	state11				15	132322	1745	50	Mid	-0.07	0.011	21.33	23.00	1.469	0.016	/
	state11			Back Side	15	132322	1745	1	Mid	0.02	0.023	22.34	24.00	1.466	0.034	/
	state11				15	132322	1745	50	Mid	-0.05	0.024	21.33	23.00	1.469	0.035	/
Ant.4	state11	QPSK	NSA	Front Side	15	132322	1745	1	Low	-0.02	0.022	22.28	24.00	1.486	0.033	/
	state11				15	132322	1745	50	Low	0.12	0.026	21.24	23.00	1.500	0.039	/
	state11			Back Side	15	132322	1745	1	Low	0.03	0.069	22.28	24.00	1.486	0.103	/
	state11				15	132322	1745	50	Low	-0.09	0.072	21.24	23.00	1.500	0.108	/
<b>Hotspot</b>																
Ant.1	state15	QPSK	SA	Front Side	10	132322	1745	1	Low	-0.18	0.184	18.42	20.00	1.439	0.265	/
	state15				10	132322	1745	50	Mid	0.19	0.189	18.54	20.00	1.400	0.265	/
	state15			Back Side	10	132322	1745	1	Low	0.11	0.200	18.42	20.00	1.439	0.288	/
	state15				10	132322	1745	50	Mid	-0.01	0.204	18.54	20.00	1.400	0.286	/
	state15			Right Edge	10	132322	1745	1	Low	-0.14	0.044	18.42	20.00	1.439	0.063	/
	state15				10	132322	1745	50	Mid	-0.08	0.047	18.54	20.00	1.400	0.066	/
	state15			Top Edge	10	132322	1745	1	Low	0.03	0.319	18.42	20.00	1.439	0.459	/
	state15				10	132322	1745	50	Mid	0.13	0.325	18.54	20.00	1.400	0.455	/
Ant.1	state17&19	QPSK	SA	Front Side	10	132322	1745	1	Low	0.12	0.140	17.46	19.00	1.426	0.200	/

	state17&19				10	132322	1745	50	Mid	-0.11	0.146	17.55	19.00	1.396	0.204	/	
	state17&19				Back Side	10	132322	1745	1	Low	-0.09	0.154	17.46	19.00	1.426	0.220	/
	state17&19					10	132322	1745	50	Mid	-0.19	0.162	17.55	19.00	1.396	0.226	/
	state17&19				Right Edge	10	132322	1745	1	Low	-0.05	0.036	17.46	19.00	1.426	0.051	/
	state17&19					10	132322	1745	50	Mid	-0.12	0.038	17.55	19.00	1.396	0.053	/
	state17&19				Top Edge	10	132322	1745	1	Low	0.16	0.253	17.46	19.00	1.426	0.361	/
	state17&19					10	132322	1745	50	Mid	-0.17	0.267	17.55	19.00	1.396	0.373	/
Ant.1	state15&19	QPSK	NSA	Front Side	10	132322	1745	1	Mid	-0.06	0.294	20.64	22.00	1.368	0.402	/	
	state15&19				10	132322	1745	50	Mid	0.17	0.296	20.68	22.00	1.355	0.401	/	
	state15&19			Back Side	10	132322	1745	1	Mid	-0.11	0.309	20.64	22.00	1.368	0.423	/	
	state15&19				10	132322	1745	50	Mid	-0.12	0.314	20.68	22.00	1.355	0.426	/	
	state15&19			Right Edge	10	132322	1745	1	Mid	0.01	0.072	20.64	22.00	1.368	0.098	/	
	state15&19				10	132322	1745	50	Mid	0.04	0.071	20.68	22.00	1.355	0.096	/	
	state15&19			Top Edge	10	132322	1745	1	Mid	0.05	0.515	20.64	22.00	1.368	0.704	/	
	state15&19				10	132322	1745	50	Mid	0.09	0.531	20.68	22.00	1.355	<b>0.720</b>	45#	
Ant.1	state17	QPSK	NSA	Front Side	10	132072	1720	1	Low	-0.15	0.028	11.14	12.00	1.219	0.034	/	
	state17				10	132072	1720	50	Mid	-0.14	0.029	11.13	12.00	1.222	0.035	/	
	state17			Back Side	10	132072	1720	1	Low	0.01	0.031	11.14	12.00	1.219	0.038	/	
	state17				10	132072	1720	50	Mid	-0.09	0.031	11.13	12.00	1.222	0.038	/	
	state17			Right Edge	10	132072	1720	1	Low	0.02	0.007	11.14	12.00	1.219	0.009	/	
	state17				10	132072	1720	50	Mid	0.08	0.007	11.13	12.00	1.222	0.009	/	
	state17			Top Edge	10	132072	1720	1	Low	0.00	0.053	11.14	12.00	1.219	0.065	/	
	state17				10	132072	1720	50	Mid	0.07	0.054	11.13	12.00	1.222	0.066	/	
Ant.0	state15&17&19	QPSK	SA	Front Side	10	132322	1745	1	Low	-0.08	0.170	19.63	20.00	1.089	0.185	/	
	state15&17&19				10	132322	1745	50	Mid	-0.04	0.176	19.68	20.00	1.076	0.190	/	
	state15&17&19			Back Side	10	132322	1745	1	Low	0.06	0.252	19.63	20.00	1.089	0.275	/	
	state15&17&19				10	132322	1745	50	Mid	0.06	0.261	19.68	20.00	1.076	0.281	/	
	state15&17&19			Left Edge	10	132322	1745	1	Low	-0.19	0.059	19.63	20.00	1.089	0.064	/	
	state15&17&19				10	132322	1745	50	Mid	0.03	0.060	19.68	20.00	1.076	0.065	/	
	state15&17&19			Right Edge	10	132322	1745	1	Low	-0.18	0.038	19.63	20.00	1.089	0.041	/	
	state15&17&19				10	132322	1745	50	Mid	-0.13	0.040	19.68	20.00	1.076	0.043	/	
	state15&17&19			Bottom Edge	10	132322	1745	1	Low	-0.03	0.426	19.63	20.00	1.089	0.464	/	
	state15&17&19				10	132322	1745	50	Mid	-0.14	0.435	19.68	20.00	1.076	0.468	/	
Ant.0	state15&19	QPSK	NSA	Front Side	10	132322	1745	1	Low	-0.03	0.109	17.72	18.00	1.067	0.116	/	
	state15&19				10	132322	1745	50	Low	-0.07	0.111	17.79	18.00	1.050	0.116	/	
	state15&19			Back Side	10	132322	1745	1	Low	0.07	0.157	17.72	18.00	1.067	0.167	/	
	state15&19				10	132322	1745	50	Low	-0.04	0.158	17.79	18.00	1.050	0.166	/	
	state15&19			Left Edge	10	132322	1745	1	Low	-0.03	0.038	17.72	18.00	1.067	0.041	/	
	state15&19				10	132322	1745	50	Low	0.15	0.039	17.79	18.00	1.050	0.041	/	
	state15&19			Right Edge	10	132322	1745	1	Low	0.18	0.024	17.72	18.00	1.067	0.026	/	
	state15&19				10	132322	1745	50	Low	0.13	0.026	17.79	18.00	1.050	0.027	/	
	state15&19			Bottom Edge	10	132322	1745	1	Low	0.17	0.264	17.72	18.00	1.067	0.282	/	
	state15&19				10	132322	1745	50	Low	-0.09	0.271	17.79	18.00	1.050	0.284	/	
Ant.0	state17	QPSK	NSA	Front Side	10	132322	1745	1	Low	-0.15	0.084	16.68	17.00	1.076	0.090	/	
	state17				10	132322	1745	50	Low	0.06	0.088	16.66	17.00	1.081	0.095	/	

	state17			Back Side	10	132322	1745	1	Low	0.07	0.124	16.68	17.00	1.076	0.133	/
	state17				10	132322	1745	50	Low	-0.08	0.129	16.66	17.00	1.081	0.140	/
	state17			Left Edge	10	132322	1745	1	Low	-0.08	0.030	16.68	17.00	1.076	0.032	/
	state17				10	132322	1745	50	Low	0.03	0.031	16.66	17.00	1.081	0.034	/
	state17			Right Edge	10	132322	1745	1	Low	-0.18	0.019	16.68	17.00	1.076	0.020	/
	state17				10	132322	1745	50	Low	-0.12	0.020	16.66	17.00	1.081	0.022	/
	state17			Bottom Edge	10	132322	1745	1	Low	0.10	0.211	16.68	17.00	1.076	0.227	/
	state17				10	132322	1745	50	Low	-0.12	0.219	16.66	17.00	1.081	0.237	/
Ant.3	state15&17&19	QPSK	NSA	Front Side	10	132322	1745	1	Mid	-0.13	0.028	22.34	24.00	1.466	0.041	/
	state15&17&19				10	132322	1745	50	Mid	0.11	0.033	21.33	23.00	1.469	0.048	/
	state15&17&19			Back Side	10	132322	1745	1	Mid	-0.13	0.078	22.34	24.00	1.466	0.114	/
	state15&17&19				10	132322	1745	50	Mid	0.06	0.084	21.33	23.00	1.469	0.123	/
	state15&17&19			Left Edge	10	132322	1745	1	Mid	0.05	0.116	22.34	24.00	1.466	0.170	/
	state15&17&19				10	132322	1745	50	Mid	-0.05	0.120	21.33	23.00	1.469	0.176	/
Ant.4	state15&17&19	QPSK	NSA	Front Side	15	132322	1745	1	Low	-0.18	0.037	22.28	24.00	1.486	0.055	/
	state15&17&19				15	132322	1745	50	Low	0.12	0.042	21.24	23.00	1.500	0.063	/
	state15&17&19			Back Side	15	132322	1745	1	Low	-0.08	0.209	22.28	24.00	1.486	0.311	/
	state15&17&19				15	132322	1745	50	Low	0.07	0.202	21.24	23.00	1.500	0.303	/
	state15&17&19			Right Edge	15	132322	1745	1	Low	-0.10	0.112	22.28	24.00	1.486	0.166	/
	state15&17&19				15	132322	1745	50	Low	-0.09	0.122	21.24	23.00	1.500	0.183	/
	state15&17&19			Top Edge	15	132322	1745	1	Low	-0.16	0.013	22.28	24.00	1.486	0.019	/
	state15&17&19				15	132322	1745	50	Low	-0.08	0.016	21.24	23.00	1.500	0.024	/

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

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

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>																
Ant.1	state12	QPSK	SA	Left Cheek	0	38150	2610	1	High	-0.13	0.230	19.11	20.00	1.227	0.282	/
	state12				0	38150	2610	50	Mid	0.07	0.235	19.08	20.00	1.236	0.290	/
	state12			Left Tilt	0	38150	2610	1	High	-0.12	0.325	19.11	20.00	1.227	0.399	/
	state12				0	38150	2610	50	Mid	0.15	0.340	19.08	20.00	1.236	0.420	/
	state12			Right Cheek	0	38150	2610	1	High	-0.10	0.534	19.11	20.00	1.227	0.655	/
	state12				0	38150	2610	50	Mid	-0.10	0.563	19.08	20.00	1.236	0.696	/
	state12			Right Tilt	0	38150	2610	1	High	-0.09	0.656	19.11	20.00	1.227	0.805	/
	state12				0	38000	2595	1	High	0.19	0.737	18.99	20.00	1.262	0.930	/
	state12				0	37850	2580	1	High	0.17	0.726	19.00	20.00	1.259	0.914	/
	state12				0	38150	2610	50	Mid	-0.12	0.687	19.08	20.00	1.236	0.849	/
	state12				0	38000	2595	50	Mid	-0.10	0.744	19.03	20.00	1.250	0.930	/
	state12				0	37850	2580	50	Mid	0.17	0.757	19.07	20.00	1.239	0.938	46#
state12	0	38000	2595	100	Low	0.11	0.723	19.04	20.00	1.247	0.902	/				
Ant.1	state16	QPSK	SA	Left Cheek	0	38150	2610	1	High	0.13	0.138	16.85	17.50	1.161	0.160	/

	state16				0	38150	2610	50	High	0.19	0.145	16.84	17.50	1.164	0.169	/	
	state16				Left Tilt	0	38150	2610	1	High	-0.04	0.192	16.85	17.50	1.161	0.223	/
	state16					0	38150	2610	50	High	0.00	0.198	16.84	17.50	1.164	0.230	/
	state16				Right Cheek	0	38150	2610	1	High	0.16	0.320	16.85	17.50	1.161	0.372	/
	state16					0	38150	2610	50	High	0.06	0.347	16.84	17.50	1.164	0.404	/
	state16				Right Tilt	0	38150	2610	1	High	-0.05	0.378	16.85	17.50	1.161	0.439	/
	state16					0	38150	2610	50	High	-0.08	0.416	16.84	17.50	1.164	0.484	/
Ant.1	state18&20	QPSK	SA	Left Cheek	0	38150	2610	1	High	0.13	0.120	16.48	17.00	1.127	0.135	/	
	state18&20				0	38150	2610	50	Mid	0.18	0.129	16.47	17.00	1.130	0.146	/	
	state18&20			Left Tilt	0	38150	2610	1	High	-0.08	0.163	16.48	17.00	1.127	0.184	/	
	state18&20				0	38150	2610	50	Mid	-0.14	0.181	16.47	17.00	1.130	0.204	/	
	state18&20			Right Cheek	0	38150	2610	1	High	-0.03	0.276	16.48	17.00	1.127	0.311	/	
	state18&20				0	38150	2610	50	Mid	-0.06	0.305	16.47	17.00	1.130	0.345	/	
	state18&20			Right Tilt	0	38150	2610	1	High	0.08	0.346	16.48	17.00	1.127	0.390	/	
	state18&20				0	38150	2610	50	Mid	0.12	0.370	16.47	17.00	1.130	0.418	/	
Ant.0	state12&16&18&20	QPSK	SA	Left Cheek	0	38150	2610	1	Low	-0.18	0.109	23.27	24.00	1.183	0.129	/	
	state12&16&18&20				0	38150	2610	50	Mid	0.12	0.087	22.23	23.00	1.194	0.104	/	
	state12&16&18&20			Left Tilt	0	38150	2610	1	Low	-0.11	0.056	23.27	24.00	1.183	0.066	/	
	state12&16&18&20				0	38150	2610	50	Mid	0.00	0.046	22.23	23.00	1.194	0.055	/	
	state12&16&18&20			Right Cheek	0	38150	2610	1	Low	-0.05	0.182	23.27	24.00	1.183	0.215	/	
	state12&16&18&20				0	38150	2610	50	Mid	0.04	0.149	22.23	23.00	1.194	0.178	/	
	state12&16&18&20			Right Tilt	0	38150	2610	1	Low	-0.03	0.079	23.27	24.00	1.183	0.093	/	
	state12&16&18&20				0	38150	2610	50	Mid	0.04	0.063	22.23	23.00	1.194	0.075	/	
<b>Body-worn</b>																	
Ant.1	state11	QPSK	SA	Front Side	15	38150	2610	1	Low	0.11	0.090	21.01	22.00	1.256	0.113	/	
	state11				15	38150	2610	50	Mid	-0.18	0.093	21.06	22.00	1.242	0.115	/	
	state11			Back Side	15	38150	2610	1	Low	-0.08	0.182	21.01	22.00	1.256	0.229	/	
	state11				15	38150	2610	50	Mid	0.03	0.189	21.06	22.00	1.242	<b>0.235</b>	<b>47#</b>	
Ant.0	state11	QPSK	SA	Front Side	15	38150	2610	1	Mid	0.09	0.087	21.54	22.00	1.112	0.097	/	
	state11				15	38150	2610	50	Mid	0.14	0.089	21.58	22.00	1.102	0.098	/	
	state11			Back Side	15	38150	2610	1	Mid	0.18	0.120	21.54	22.00	1.112	0.133	/	
	state11				15	38150	2610	50	Mid	-0.03	0.124	21.58	22.00	1.102	0.137	/	
<b>Hotspot</b>																	
Ant.1	state15&17&19	QPSK	SA	Front Side	10	38150	2610	1	High	-0.06	0.122	19.92	20.50	1.143	0.139	/	
	state15&17&19				10	38150	2610	50	Mid	-0.04	0.125	19.95	20.50	1.135	0.142	/	
	state15&17&19			Back Side	10	38150	2610	1	High	-0.05	0.392	19.92	20.50	1.143	0.448	/	
	state15&17&19				10	38150	2610	50	Mid	-0.07	0.404	19.95	20.50	1.135	0.459	/	
	state15&17&19			Right Edge	10	38150	2610	1	High	0.08	0.089	19.92	20.50	1.143	0.102	/	
	state15&17&19				10	38150	2610	50	Mid	-0.03	0.092	19.95	20.50	1.135	0.104	/	
	state15&17&19			Top Edge	10	38150	2610	1	High	0.06	0.414	19.92	20.50	1.143	0.473	/	
	state15&17&19				10	38150	2610	50	Mid	-0.17	0.420	19.95	20.50	1.135	<b>0.477</b>	<b>48#</b>	
Ant.0	state15	QPSK	SA	Front Side	10	38150	2610	1	High	0.00	0.140	20.07	21.00	1.239	0.173	/	
	state15				10	38150	2610	50	Mid	0.18	0.148	20.07	21.00	1.239	0.183	/	
	state15			Back Side	10	38150	2610	1	High	0.17	0.164	20.07	21.00	1.239	0.203	/	
	state15				10	38150	2610	50	Mid	0.10	0.176	20.07	21.00	1.239	0.218	/	

	state15			Left Edge	10	38150	2610	1	High	0.11	0.066	20.07	21.00	1.239	0.082	/
	state15				10	38150	2610	50	Mid	-0.04	0.068	20.07	21.00	1.239	0.084	/
	state15			Right Edge	10	38150	2610	1	High	-0.18	0.020	20.07	21.00	1.239	0.025	/
	state15				10	38150	2610	50	Mid	0.05	0.024	20.07	21.00	1.239	0.030	/
	state15			Bottom Edge	10	38150	2610	1	High	-0.11	0.088	20.07	21.00	1.239	0.109	/
	state15				10	38150	2610	50	Mid	0.17	0.095	20.07	21.00	1.239	0.118	/
Ant.0	state17&19	QPSK	SA	Front Side	10	38150	2610	1	High	0.19	0.121	19.57	20.50	1.239	0.150	/
	state17&19				10	38150	2610	50	Mid	0.13	0.131	19.57	20.50	1.239	0.162	/
	state17&19			Back Side	10	38150	2610	1	High	-0.01	0.148	19.57	20.50	1.239	0.183	/
	state17&19				10	38150	2610	50	Mid	-0.13	0.162	19.57	20.50	1.239	0.201	/
	state17&19			Left Edge	10	38150	2610	1	High	0.15	0.057	19.57	20.50	1.239	0.071	/
	state17&19				10	38150	2610	50	Mid	0.10	0.061	19.57	20.50	1.239	0.076	/
	state17&19			Right Edge	10	38150	2610	1	High	-0.09	0.017	19.57	20.50	1.239	0.021	/
	state17&19				10	38150	2610	50	Mid	0.10	0.022	19.57	20.50	1.239	0.027	/
	state17&19			Bottom Edge	10	38150	2610	1	High	0.16	0.078	19.57	20.50	1.239	0.097	/
	state17&19				10	38150	2610	50	Mid	-0.03	0.081	19.57	20.50	1.239	0.100	/

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

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
<b>Specific</b>																
Ant.1	state11	QPSK	SA	Front Side	0	38150	2610	1	Low	0.03	0.605	21.01	22.00	1.256	0.760	/
	state11				0	38150	2610	50	Mid	-0.14	0.613	21.06	22.00	1.242	0.761	/
	state11			Back Side	0	38150	2610	1	Low	0.16	1.260	21.01	22.00	1.256	1.583	/
	state11				0	38150	2610	50	Mid	0.19	1.290	21.06	22.00	1.242	<b>1.602</b>	49#
	state11			Right Edge	0	38150	2610	1	Low	-0.05	0.248	21.01	22.00	1.256	0.311	/
	state11				0	38150	2610	50	Mid	0.17	0.252	21.06	22.00	1.242	0.313	/
	state11			Top Edge	0	38150	2610	1	Low	0.06	1.150	21.01	22.00	1.256	1.444	/
	state11				0	38150	2610	50	Mid	-0.17	1.190	21.06	22.00	1.242	1.478	/
Ant.1	state15&17&19	QPSK	SA	Front Side	0	38150	2610	1	High	0.10	0.470	19.92	20.50	1.143	0.537	/
	state15&17&19				0	38150	2610	50	Mid	-0.14	0.503	19.95	20.50	1.135	0.571	/
	state15&17&19			Back Side	0	38150	2610	1	High	-0.17	0.995	19.92	20.50	1.143	1.137	/
	state15&17&19				0	38150	2610	50	Mid	0.10	1.040	19.95	20.50	1.135	1.180	/
	state15&17&19			Right Edge	0	38150	2610	1	High	-0.19	0.195	19.92	20.50	1.143	0.223	/
	state15&17&19				0	38150	2610	50	Mid	-0.06	0.203	19.95	20.50	1.135	0.230	/
	state15&17&19			Top Edge	0	38150	2610	1	High	-0.04	0.943	19.92	20.50	1.143	1.078	/
	state15&17&19				0	38150	2610	50	Mid	-0.01	0.947	19.95	20.50	1.135	1.075	/

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

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

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Head-CA</b>																
Ant.1	state12	QPSK	SA	Right Tilt	0	37850 +38048	2580 +2599.8	1+0	Low +Low	0.03	0.429	18.84	20.00	1.306	0.560	/
<b>Body-worn-CA</b>																
Ant.1	state11	QPSK	SA	Back Side	15	38150 +37952	2610 +2590.2	1+0	Low +Low	-0.14	0.112	20.85	22.00	1.303	0.146	/
<b>Hotspot-CA</b>																
Ant.1	state15&17&19	QPSK	SA	Top Edge	10	38150 +37952	2610 +2590.2	1+0	Low +Low	0.08	0.245	19.75	20.50	1.189	0.291	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
<b>Specific-CA</b>																
Ant.1	state11	QPSK	SA	Back Side	0	38150 +37952	2610 +2590.2	1+0	Low +Low	0.06	0.848	20.85	22.00	1.303	1.105	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

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

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>																
Ant.1	state12	QPSK	SA	Left Cheek	0	41490	2680	1	Low	0.12	0.294	19.80	20.50	1.175	0.345	/
	state12				0	41490	2680	50	Low	0.06	0.289	19.81	20.50	1.172	0.339	/
	state12			Left Tilt	0	41490	2680	1	Low	-0.18	0.382	19.80	20.50	1.175	0.449	/
	state12				0	41490	2680	50	Low	0.14	0.388	19.81	20.50	1.172	0.455	/
	state12			Right Cheek	0	41490	2680	1	Low	0.11	0.682	19.80	20.50	1.175	0.801	/
	state12				0	41490	2680	50	Low	0.18	0.692	19.81	20.50	1.172	0.811	/
	state12			Right Tilt	0	41490	2680	1	Low	-0.07	0.842	19.80	20.50	1.175	0.989	/
	state12				0	39750	2506	1	Low	-0.06	0.838	19.54	20.50	1.247	1.045	/
	state12				0	40185	2636.5	1	Low	0.07	0.852	19.56	20.50	1.242	1.058	/
	state12				0	40620	2593	1	Low	0.14	0.843	19.59	20.50	1.233	1.040	/
	state12				0	41055	2549.5	1	Low	0.03	0.863	19.64	20.50	1.219	1.052	/
	state12				0	41490	2680	50	Low	0.15	0.850	19.81	20.50	1.172	0.996	/
	state12				0	39750	2506	50	Mid	0.02	0.835	19.56	20.50	1.242	1.037	/
	state12				0	40185	2636.5	50	Low	-0.19	0.862	19.66	20.50	1.213	1.046	/
	state12				0	40620	2593	50	Mid	0.06	0.867	19.57	20.50	1.239	<b>1.074</b>	50#
	state12				0	41055	2549.5	50	Mid	0.05	0.872	19.62	20.50	1.225	1.068	/
state12	0	41490	2680	100	Low	0.02	0.829	19.77	20.50	1.183	0.981	/				
Ant.1	state16	QPSK	SA	Left Cheek	0	41490	2680	1	High	-0.19	0.128	16.35	18.00	1.462	0.187	/
	state16				0	41490	2680	50	High	0.15	0.132	16.33	18.00	1.469	0.194	/
	state16			Left Tilt	0	41490	2680	1	High	-0.09	0.167	16.35	18.00	1.462	0.244	/
	state16				0	41490	2680	50	High	-0.13	0.173	16.33	18.00	1.469	0.254	/
	state16			Right Cheek	0	41490	2680	1	High	-0.16	0.295	16.35	18.00	1.462	0.431	/
	state16				0	41490	2680	50	High	0.12	0.303	16.33	18.00	1.469	0.445	/
	state16			Right Tilt	0	41490	2680	1	High	-0.10	0.386	16.35	18.00	1.462	0.564	/
	state16				0	41490	2680	50	High	-0.10	0.370	16.33	18.00	1.469	0.544	/
Ant.1	state18&20	QPSK	SA	Left Cheek	0	41490	2680	1	High	0.02	0.112	15.94	17.50	1.432	0.160	/
	state18&20				0	41490	2680	50	Mid	0.08	0.119	15.94	17.50	1.432	0.170	/
	state18&20			Left Tilt	0	41490	2680	1	High	-0.06	0.142	15.94	17.50	1.432	0.203	/
	state18&20				0	41490	2680	50	Mid	0.08	0.154	15.94	17.50	1.432	0.221	/
	state18&20			Right Cheek	0	41490	2680	1	High	0.05	0.259	15.94	17.50	1.432	0.371	/
	state18&20				0	41490	2680	50	Mid	0.09	0.264	15.94	17.50	1.432	0.378	/
	state18&20			Right Tilt	0	41490	2680	1	High	-0.04	0.332	15.94	17.50	1.432	0.475	/
	state18&20				0	39750	2506	1	Mid	0.05	0.348	15.94	17.50	1.432	0.498	/
Ant.0	state12&16&18&20	QPSK	SA	Left Cheek	0	41490	2680	1	Low	-0.16	0.111	23.14	24.50	1.368	0.152	/
	state12&16&18&20				0	40620	2593	50	Mid	0.04	0.089	22.12	23.50	1.374	0.122	/
	state12&16&18&20			Left Tilt	0	41490	2680	1	Low	0.19	0.055	23.14	24.50	1.368	0.075	/
	state12&16&18&20				0	40620	2593	50	Mid	0.00	0.045	22.12	23.50	1.374	0.062	/
	state12&16&18&20			Right Cheek	0	41490	2680	1	Low	0.04	0.186	23.14	24.50	1.368	0.254	/
	state12&16&18&20				0	40620	2593	50	Mid	0.10	0.144	22.12	23.50	1.374	0.198	/



	state12&16&18&20			Right Tilt	0	41490	2680	1	Low	0.08	0.077	23.14	24.50	1.368	0.105	/	
	state12&16&18&20			Right Tilt	0	40620	2593	50	Mid	-0.18	0.060	22.12	23.50	1.374	0.082	/	
<b>Body-worn</b>																	
Ant.1	state11	QPSK	SA	Front Side	15	41490	2680	1	Low	0.12	0.081	20.88	22.50	1.452	0.118	/	
	15				41490	2680	50	Mid	0.07	0.084	20.94	22.50	1.432	0.120	/		
	state11			Back Side	15	41490	2680	1	Low	-0.04	0.140	20.88	22.50	1.452	0.203	/	
	state11				15	41490	2680	50	Mid	0.10	0.142	20.94	22.50	1.432	<b>0.203</b>	<b>51#</b>	
Ant.0	state11	QPSK	SA	Front Side	15	41490	2680	1	Mid	0.10	0.085	20.67	22.50	1.524	0.130	/	
	15				41490	2680	50	Mid	0.12	0.089	20.66	22.50	1.528	0.136	/		
	state11			Back Side	15	41490	2680	1	Mid	-0.01	0.124	20.67	22.50	1.524	0.189	/	
	state11				15	41490	2680	50	Mid	-0.16	0.121	20.66	22.50	1.528	0.185	/	
<b>Hotspot</b>																	
Ant.1	state15&17&19	QPSK	SA	Front Side	10	41490	2680	1	Low	-0.15	0.168	20.87	21.00	1.030	0.173	/	
	10				41490	2680	50	High	-0.01	0.171	20.86	21.00	1.033	0.177	/		
	state15&17&19			Back Side	10	41490	2680	1	Low	0.00	0.446	20.87	21.00	1.030	0.460	/	
	state15&17&19				10	41490	2680	50	High	-0.09	0.471	20.86	21.00	1.033	0.486	/	
	state15&17&19			Right Edge	10	41490	2680	1	Low	-0.17	0.112	20.87	21.00	1.030	0.115	/	
	state15&17&19				10	41490	2680	50	High	0.17	0.117	20.86	21.00	1.033	0.121	/	
	state15&17&19			Top Edge	10	41490	2680	1	Low	-0.01	0.754	20.87	21.00	1.030	0.777	/	
	state15&17&19				10	41490	2680	50	High	-0.16	0.794	20.86	21.00	1.033	0.820	<b>52#</b>	
	state15&17&19				10	39750	2506	50	Mid	-0.18	0.760	20.70	21.00	1.072	0.814	/	
	state15&17&19				10	40185	2636.5	50	Mid	0.07	0.758	20.67	21.00	1.079	0.818	/	
	state15&17&19				10	40620	2593	50	Mid	0.18	0.762	20.72	21.00	1.067	0.813	/	
	state15&17&19				10	41055	2549.5	50	Mid	-0.07	0.734	20.65	21.00	1.084	0.796	/	
	state15&17&19			10	41490	2680	100	Low	0.18	0.746	20.81	21.00	1.045	0.779	/		
	Ant.0			state15	QPSK	SA	Front Side	10	41490	2680	1	Low	-0.11	0.171	20.37	21.50	1.297
10		41490	2680	50				Low	-0.08	0.182	20.37	21.50	1.297	0.236	/		
state15		Back Side	10	41490			2680	1	Low	-0.14	0.236	20.37	21.50	1.297	0.306	/	
state15			10	41490			2680	50	Low	0.15	0.239	20.37	21.50	1.297	0.310	/	
state15		Left Edge	10	41490			2680	1	Low	0.12	0.084	20.37	21.50	1.297	0.109	/	
state15			10	41490			2680	50	Low	0.13	0.088	20.37	21.50	1.297	0.114	/	
state15		Right Edge	10	41490			2680	1	Low	0.19	0.027	20.37	21.50	1.297	0.035	/	
state15			10	41490			2680	50	Low	-0.16	0.028	20.37	21.50	1.297	0.036	/	
state15		Bottom Edge	10	41490			2680	1	Low	-0.16	0.105	20.37	21.50	1.297	0.136	/	
state15			10	41490			2680	50	Low	0.02	0.109	20.37	21.50	1.297	0.141	/	
Ant.0	state17&19	QPSK	SA	Front Side	10	41490	2680	1	High	0.14	0.158	19.78	21.00	1.324	0.209	/	
	10				41490	2680	50	Low	-0.14	0.162	19.76	21.00	1.330	0.216	/		
	state17&19			Back Side	10	41490	2680	1	High	-0.15	0.211	19.78	21.00	1.324	0.279	/	
	state17&19				10	41490	2680	50	Low	0.01	0.216	19.76	21.00	1.330	0.287	/	
	state17&19			Left Edge	10	41490	2680	1	High	0.16	0.080	19.78	21.00	1.324	0.106	/	
	state17&19				10	41490	2680	50	Low	0.07	0.088	19.76	21.00	1.330	0.117	/	
	state17&19			Right Edge	10	41490	2680	1	High	0.09	0.025	19.78	21.00	1.324	0.033	/	
	state17&19				10	41490	2680	50	Low	0.01	0.029	19.76	21.00	1.330	0.039	/	
	state17&19			Bottom Edge	10	41490	2680	1	High	0.19	0.094	19.78	21.00	1.324	0.124	/	
	state17&19				10	41490	2680	50	Low	0.11	0.103	19.76	21.00	1.330	0.137	/	

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

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
<b>Specific</b>																
Ant.1	state11	QPSK	SA	Front Side	0	41490	2680	1	Low	0.17	0.839	20.88	22.50	1.452	1.218	/
	0				41490	2680	50	High	-0.05	0.853	20.94	22.50	1.432	1.222	/	
	state11			Back Side	0	41490	2680	1	Low	-0.15	1.040	20.88	22.50	1.452	1.510	/
	0				41490	2680	50	High	0.17	1.090	20.94	22.50	1.432	1.561	/	
	state11			Right Edge	0	41490	2680	1	Low	-0.12	0.295	20.88	22.50	1.452	0.428	/
	0				41490	2680	50	High	0.13	0.313	20.94	22.50	1.432	0.448	/	
	state11			Top Edge	0	41490	2680	1	Low	-0.09	1.160	20.88	22.50	1.452	1.684	/
	0				41490	2680	50	Mid	0.12	1.200	20.94	22.50	1.432	<b>1.719</b>	53#	
Ant.1	state15&17&19	QPSK	SA	Front Side	0	41490	2680	1	Low	-0.05	0.815	20.87	21.00	1.030	0.840	/
	0				41490	2680	50	High	0.03	0.810	20.86	21.00	1.033	0.837	/	
	state15&17&19			Back Side	0	41490	2680	1	Low	-0.11	1.050	20.87	21.00	1.030	1.082	/
	0				41490	2680	50	High	-0.08	1.070	20.86	21.00	1.033	1.105	/	
	state15&17&19			Right Edge	0	41490	2680	1	Low	0.16	0.292	20.87	21.00	1.030	0.301	/
	0				41490	2680	50	High	0.05	0.309	20.86	21.00	1.033	0.319	/	
	state15&17&19			Top Edge	0	41490	2680	1	Low	-0.01	1.180	20.87	21.00	1.030	1.216	/
	0				41490	2680	50	High	-0.09	1.220	20.86	21.00	1.033	1.260	/	

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

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

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Head-CA</b>																
Ant.1	state12	QPSK	SA	Right Tilt	0	40620 +40818	2506 +2612.8	1+0	Low +Low	0.08	0.498	19.42	20.50	1.282	0.639	/
<b>Body-worn-CA</b>																
Ant.1	state11	QPSK	SA	Back Side	15	41490 +41292	2680 +2660.2	1+0	Low +Low	0.12	0.084	20.65	22.50	1.531	0.129	/
<b>Hotspot-CA</b>																
Ant.1	state15&17&19	QPSK	SA	Back Side	10	41490 +41292	2680 +2660.2	1+0	Low +Low	0.07	0.417	20.59	21.00	1.099	0.458	/

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

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Specific-CA</b>																
Ant.1	state11	QPSK	SA	Top Edge	0	41490 +41292	2680 +2660.2	1+0	Low +Low	-0.01	0.732	20.65	22.50	1.531	1.121	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

### 10.20 n5 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Information	Bandwidth (MHz)	Position	Dist. (mm)	Ch.	Freq. (MHz)	VRB Length	VRB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>																	
Ant.1	state12&16&20	DFT-s-OFDM BPSK	SA	20	Left Cheek	0	166800	834	1	1	0.03	0.302	23.98	24.20	1.052	0.318	/
	20			0		166800	834	50	0	0.13	0.292	24.10	24.20	1.023	0.299	/	
	state12&16&20			Left Tilt	0	166800	834	1	1	0.16	0.294	23.98	24.20	1.052	0.309	/	
	state12&16&20				0	166800	834	50	0	0.02	0.289	24.10	24.20	1.023	0.296	/	
	state12&16&20			Right Cheek	0	166800	834	1	1	0.11	0.436	23.98	24.20	1.052	<b>0.459</b>	<b>54#</b>	
	state12&16&20				0	166800	834	50	0	-0.17	0.427	24.10	24.20	1.023	0.437	/	
	state12&16&20			Right Tilt	0	166800	834	1	1	0.10	0.378	23.98	24.20	1.052	0.398	/	
	state12&16&20				0	166800	834	50	0	0.08	0.366	24.10	24.20	1.023	0.375	/	
Ant.1	state18	DFT-s-OFDM BPSK	SA	20	Left Cheek	0	167300	836.5	1	1	0.11	0.190	22.14	22.70	1.138	0.216	/
	state18			0		167300	836.5	50	28	-0.09	0.184	22.10	22.70	1.148	0.211	/	
	state18			Left Tilt	0	167300	836.5	1	1	0.01	0.187	22.14	22.70	1.138	0.213	/	
	state18				0	167300	836.5	50	28	-0.08	0.185	22.10	22.70	1.148	0.212	/	
	state18			Right Cheek	0	167300	836.5	1	1	-0.01	0.276	22.14	22.70	1.138	0.314	/	
	state18				0	167300	836.5	50	28	-0.17	0.259	22.10	22.70	1.148	0.297	/	
	state18			Right Tilt	0	167300	836.5	1	1	-0.17	0.246	22.14	22.70	1.138	0.280	/	
	state18				0	167300	836.5	50	28	0.14	0.232	22.10	22.70	1.148	0.266	/	
Ant.1	state12	DFT-s-OFDM BPSK	NSA	20	Left Cheek	0	167300	836.5	1	53	0.09	0.243	22.92	23.20	1.067	0.259	/
	state12			0		167300	836.5	50	0	0.01	0.236	23.03	23.20	1.040	0.245	/	
	state12			Left Tilt	0	167300	836.5	1	53	0.19	0.232	22.92	23.20	1.067	0.247	/	
	state12				0	167300	836.5	50	0	0.14	0.233	23.03	23.20	1.040	0.242	/	
	state12			Right Cheek	0	167300	836.5	1	53	0.12	0.350	22.92	23.20	1.067	0.373	/	
	state12				0	167300	836.5	50	0	-0.10	0.335	23.03	23.20	1.040	0.348	/	
	state12			Right Tilt	0	167300	836.5	1	53	-0.14	0.292	22.92	23.20	1.067	0.311	/	
	state12				0	167300	836.5	50	0	-0.01	0.288	23.03	23.20	1.040	0.299	/	
Ant.1	state16&&20	DFT-s-OFDM BPSK	NSA	20	Left Cheek	0	167300	836.5	1	1	0.00	0.190	22.14	22.70	1.138	0.216	/
	state16&&20			0		167300	836.5	50	28	0.05	0.184	22.10	22.70	1.148	0.211	/	
	state16&&20			Left Tilt	0	167300	836.5	1	1	-0.18	0.187	22.14	22.70	1.138	0.213	/	
	state16&&20				0	167300	836.5	50	28	0.13	0.185	22.10	22.70	1.148	0.212	/	
	state16&&20			Right Cheek	0	167300	836.5	1	1	-0.10	0.276	22.14	22.70	1.138	0.314	/	

	state16&20			20		0	167300	836.5	50	28	0.00	0.259	22.10	22.70	1.148	0.297	/	
	state16&20			Right Tilt		20	0	167300	836.5	1	1	-0.09	0.246	22.14	22.70	1.138	0.280	/
	state16&20					20	0	167300	836.5	50	28	-0.18	0.232	22.10	22.70	1.148	0.266	/
Ant.1	state18	DFT-s-OFDM BPSK	NSA	20	Left Cheek	0	167300	836.5	1	1	0.10	0.097	18.97	19.20	1.054	0.102	/	
	state18			0		167300	836.5	50	0	-0.15	0.091	18.97	19.20	1.054	0.096	/		
	state18			Left Tilt	20	0	167300	836.5	1	1	0.08	0.090	18.97	19.20	1.054	0.095	/	
	state18				20	0	167300	836.5	50	0	0.13	0.089	18.97	19.20	1.054	0.094	/	
	state18			Right Cheek	20	0	167300	836.5	1	1	0.08	0.141	18.97	19.20	1.054	0.149	/	
	state18				20	0	167300	836.5	50	0	0.06	0.134	18.97	19.20	1.054	0.141	/	
	state18			Right Tilt	20	0	167300	836.5	1	1	-0.01	0.127	18.97	19.20	1.054	0.134	/	
	state18				20	0	167300	836.5	50	0	0.02	0.115	18.97	19.20	1.054	0.121	/	
Ant.0	state12&16&18&20	DFT-s-OFDM BPSK	SA	20	Left Cheek	0	167800	839	1	1	0.17	0.101	23.58	24.20	1.153	0.116	/	
	state12&16&18&20			0		167800	839	50	28	-0.16	0.094	23.41	24.20	1.199	0.113	/		
	state12&16&18&20			Left Tilt	20	0	167800	839	1	1	0.19	0.052	23.58	24.20	1.153	0.060	/	
	state12&16&18&20				20	0	167800	839	50	28	-0.05	0.050	23.41	24.20	1.199	0.060	/	
	state12&16&18&20			Right Cheek	20	0	167800	839	1	1	-0.12	0.084	23.58	24.20	1.153	0.097	/	
	state12&16&18&20				20	0	167800	839	50	28	-0.13	0.081	23.41	24.20	1.199	0.097	/	
	state12&16&18&20			Right Tilt	20	0	167800	839	1	1	-0.08	0.057	23.58	24.20	1.153	0.066	/	
	state12&16&18&20				20	0	167800	839	50	28	-0.17	0.054	23.41	24.20	1.199	0.065	/	
<b>Body-worn</b>																		
Ant.1	state11	DFT-s-OFDM BPSK	SA&NSA	20	Front Side	15	166800	834	1	1	-0.07	0.095	23.98	24.20	1.052	0.100	/	
	state11			15		166800	834	50	0	0.10	0.092	24.10	24.20	1.023	0.094	/		
	state11			Back Side	20	15	166800	834	1	1	0.04	0.108	23.98	24.20	1.052	<b>0.114</b>	55#	
	state11				20	15	166800	834	50	0	0.03	0.103	24.10	24.20	1.023	0.105	/	
Ant.0	state11	DFT-s-OFDM BPSK	SA	20	Front Side	15	167800	839	1	1	-0.18	0.079	23.58	24.20	1.153	0.091	/	
	state11			15		167800	839	50	28	0.10	0.074	23.41	24.20	1.199	0.089	/		
	state11			Back Side	20	15	167800	839	1	1	-0.17	0.095	23.58	24.20	1.153	0.110	/	
	state11				20	15	167800	839	50	28	-0.15	0.083	23.41	24.20	1.199	0.100	/	
<b>Hotspot</b>																		
Ant.1	state15&17&19	DFT-s-OFDM BPSK	SA	20	Front Side	10	166800	834	1	1	0.14	0.152	23.98	24.20	1.052	0.160	/	
	state15&17&19			10		166800	834	50	0	-0.08	0.134	24.10	24.20	1.023	0.137	/		
	state15&17&19			Back Side	20	10	166800	834	1	1	0.16	0.187	23.98	24.20	1.052	<b>0.197</b>	56#	
	state15&17&19				20	10	166800	834	50	0	0.14	0.183	24.10	24.20	1.023	0.187	/	
	state15&17&19			Right Edge	20	10	166800	834	1	1	0.07	0.108	23.98	24.20	1.052	0.114	/	
	state15&17&19				20	10	166800	834	50	0	-0.07	0.096	24.10	24.20	1.023	0.098	/	
	state15&17&19			Top Edge	20	10	166800	834	1	1	0.07	0.163	23.98	24.20	1.052	0.171	/	
	state15&17&19				20	10	166800	834	50	0	-0.06	0.154	24.10	24.20	1.023	0.158	/	
Ant.1	state15&19	DFT-s-OFDM BPSK	NSA	20	Front Side	10	166800	834	1	1	0.14	0.152	23.98	24.20	1.052	0.160	/	
	state15&19			10		166800	834	50	0	-0.08	0.134	24.10	24.20	1.023	0.137	/		
	state15&19			Back Side	20	10	166800	834	1	1	0.16	0.187	23.98	24.20	1.052	0.197	/	
	state15&19				20	10	166800	834	50	0	0.14	0.183	24.10	24.20	1.023	0.187	/	
	state15&19			Right Edge	20	10	166800	834	1	1	0.07	0.108	23.98	24.20	1.052	0.114	/	
	state15&19				20	10	166800	834	50	0	-0.07	0.096	24.10	24.20	1.023	0.098	/	
	state15&19			Top Edge	20	10	166800	834	1	1	0.07	0.163	23.98	24.20	1.052	0.171	/	
	state15&19				20	10	166800	834	50	0	-0.06	0.154	24.10	24.20	1.023	0.158	/	

Ant.1	state17	DFT-s-OFDM BPSK	NSA	20	Front Side	10	167300	836.5	1	53	0.14	0.116	22.92	23.20	1.067	0.124	/
	state17			20		10	167300	836.5	50	0	-0.08	0.106	23.03	23.20	1.040	0.110	/
	state17			Back Side	20	10	167300	836.5	1	53	0.16	0.147	22.92	23.20	1.067	0.157	/
	state17				20	10	167300	836.5	50	0	-0.13	0.145	23.03	23.20	1.040	0.151	/
	state17			Right Edge	20	10	167300	836.5	1	53	0.08	0.084	22.92	23.20	1.067	0.090	/
	state17				20	10	167300	836.5	50	0	0.08	0.074	23.03	23.20	1.040	0.077	/
	state17			Top Edge	20	10	167300	836.5	1	53	0.08	0.130	22.92	23.20	1.067	0.139	/
	state17				20	10	167300	836.5	50	0	0.01	0.115	23.03	23.20	1.040	0.120	/
Ant.0	state15&17&19	DFT-s-OFDM BPSK	SA	20	Front Side	10	167800	839	1	1	-0.09	0.056	23.58	24.20	1.153	0.065	/
	state15&17&19			20		10	167800	839	50	28	0.07	0.050	23.41	24.20	1.199	0.060	/
	state15&17&19			Back Side	20	10	167800	839	1	1	0.17	0.146	23.58	24.20	1.153	0.168	/
	state15&17&19				20	10	167800	839	50	28	-0.05	0.130	23.41	24.20	1.199	0.156	/
	state15&17&19			Left Edge	20	10	167800	839	1	1	0.06	0.063	23.58	24.20	1.153	0.073	/
	state15&17&19				20	10	167800	839	50	28	0.15	0.061	23.41	24.20	1.199	0.073	/
	state15&17&19			Right Edge	20	10	167800	839	1	1	0.18	0.102	23.58	24.20	1.153	0.118	/
	state15&17&19				20	10	167800	839	50	28	-0.01	0.098	23.41	24.20	1.199	0.118	/
	state15&17&19			Bottom Edge	20	10	167800	839	1	1	-0.08	0.113	23.58	24.20	1.153	0.130	/
	state15&17&19				20	10	167800	839	50	28	-0.08	0.107	23.41	24.20	1.199	0.128	/

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

### 10.21 n7 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Information	Bandwidth (MHz)	Position	Dist. (mm)	Ch.	Freq. (MHz)	VRB Length	VRB Start	Power Drift (dB)	1 g Meas. SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>																	
Ant.1	state12&16&20	DFT-s-OFDM BPSK	SA	20	Left	0	502000	2510	1	1	-0.01	0.309	17.45	17.70	1.059	0.327	/
	state12&16&20			20	Cheek	0	502000	2510	50	0	-0.01	0.289	17.39	17.70	1.074	0.310	/
	state12&16&20			20	Left Tilt	0	502000	2510	1	1	-0.11	0.442	17.45	17.70	1.059	0.468	/
	state12&16&20			20		0	502000	2510	50	0	-0.02	0.440	17.39	17.70	1.074	0.473	/
	state12&16&20			20	Right Cheek	0	502000	2510	1	1	-0.14	0.846	17.45	17.70	1.059	0.896	/
	state12&16&20			20		0	507000	2535	1	1	-0.03	0.833	17.39	17.70	1.074	0.895	/
	state12&16&20			20		0	512000	2560	1	1	0.16	0.839	17.41	17.70	1.069	0.897	/
	state12&16&20			20		0	502000	2510	50	0	-0.04	0.832	17.39	17.70	1.074	0.894	/
	state12&16&20			20		0	507000	2535	50	0	0.03	0.826	17.25	17.70	1.109	0.916	/
	state12&16&20			20		0	512000	2560	50	0	0.01	0.843	17.37	17.70	1.079	0.910	/
	state12&16&20			20	Right Tilt	0	507000	2535	100	0	0.12	0.822	17.43	17.70	1.064	0.875	/
	state12&16&20			20		0	502000	2510	1	1	0.17	0.937	17.45	17.70	1.059	0.993	/
	state12&16&20			20		0	507000	2535	1	1	0.05	0.957	17.39	17.70	1.074	<b>1.028</b>	57#
	state12&16&20			20		0	512000	2560	1	1	0.04	0.950	17.41	17.70	1.069	1.016	/
	state12&16&20			20		0	502000	2510	50	0	0.18	0.919	17.39	17.70	1.074	0.987	/
	state12&16&20			20		0	507000	2535	50	0	-0.12	0.924	17.25	17.70	1.109	1.025	/
	state12&16&20			20	0	512000	2560	50	0	0.04	0.939	17.37	17.70	1.079	1.013	/	
	state12&16&20			20	0	507000	2535	100	0	0.17	0.936	17.43	17.70	1.064	0.996	/	

Ant.1	state18	DFT-s-OFDM BPSK	SA	20	Left	0	502000	2510	1	1	0.09	0.218	16.04	16.20	1.038	0.226	/	
	state18			20	Cheek	0	502000	2510	50	0	0.09	0.211	15.88	16.20	1.076	0.227	/	
	state18			20	Left Tilt	0	502000	2510	1	1	0.02	0.315	16.04	16.20	1.038	0.327	/	
	state18			20	Left Tilt	0	502000	2510	50	0	0.08	0.308	15.88	16.20	1.076	0.332	/	
	state18			20	Right	0	502000	2510	1	1	0.16	0.582	16.04	16.20	1.038	0.604	/	
	state18			20	Cheek	0	502000	2510	50	0	-0.01	0.575	15.88	16.20	1.076	0.619	/	
	state18			20	Right Tilt	0	502000	2510	1	1	0.05	0.681	16.04	16.20	1.038	0.707	/	
	state18			20	Right Tilt	0	502000	2510	50	0	-0.01	0.664	15.88	16.20	1.076	0.715	/	
Ant.0	state12&16&18&20	DFT-s-OFDM BPSK	SA&NSA	20	Left	0	507000	2535	1	1	0.05	0.160	22.35	23.70	1.365	0.218	/	
	state12&16&18&20			20	Cheek	0	507000	2535	50	28	-0.09	0.156	22.36	23.70	1.361	0.212	/	
	state12&16&18&20			20	Left Tilt	0	507000	2535	1	1	0.00	0.097	22.35	23.70	1.365	0.132	/	
	state12&16&18&20			20	Left Tilt	0	507000	2535	50	28	0.01	0.093	22.36	23.70	1.361	0.127	/	
	state12&16&18&20			20	Right	0	507000	2535	1	1	0.01	0.208	22.35	23.70	1.365	0.284	/	
	state12&16&18&20			20	Cheek	0	507000	2535	50	28	0.17	0.202	22.36	23.70	1.361	0.275	/	
	state12&16&18&20			20	Right Tilt	0	507000	2535	1	1	-0.09	0.066	22.35	23.70	1.365	0.090	/	
	state12&16&18&20			20	Right Tilt	0	507000	2535	50	28	-0.04	0.061	22.36	23.70	1.361	0.083	/	
ANT4	state12	DFT-s-OFDM BPSK	NSA	20	Left	0	512000	2560	1	1	0.07	0.017	19.87	21.70	1.524	0.026	/	
	state12			20	Cheek	0	512000	2560	50	0	0.12	0.015	19.85	21.70	1.531	0.023	/	
	state12			20	Left Tilt	0	512000	2560	1	1	-0.15	0.006	19.87	21.70	1.524	0.009	/	
	state12			20	Left Tilt	0	512000	2560	50	0	0.06	0.004	19.85	21.70	1.531	0.006	/	
	state12			20	Right	0	512000	2560	1	1	-0.18	0.024	19.87	21.70	1.524	0.037	/	
	state12			20	Cheek	0	512000	2560	50	0	0.06	0.022	19.85	21.70	1.531	0.034	/	
	state12			20	Right Tilt	0	512000	2560	1	1	-0.13	0.014	19.87	21.70	1.524	0.021	/	
	state12			20	Right Tilt	0	512000	2560	50	0	-0.08	0.011	19.85	21.70	1.531	0.017	/	
ANT4	state16&20	DFT-s-OFDM BPSK	NSA	20	Left	0	502000	2510	1	53	-0.14	0.014	18.89	20.70	1.517	0.021	/	
	state16&20			20	Cheek	0	502000	2510	50	28	-0.16	0.012	18.91	20.70	1.510	0.018	/	
	state16&20			20	Left Tilt	0	502000	2510	1	53	0.09	0.005	18.89	20.70	1.517	0.008	/	
	state16&20			20	Left Tilt	0	502000	2510	50	28	-0.17	0.005	18.91	20.70	1.510	0.008	/	
	state16&20			20	Right	0	502000	2510	1	53	-0.01	0.019	18.89	20.70	1.517	0.029	/	
	state16&20			20	Cheek	0	502000	2510	50	28	-0.09	0.017	18.91	20.70	1.510	0.026	/	
	state16&20			20	Right Tilt	0	502000	2510	1	53	0.08	0.011	18.89	20.70	1.517	0.017	/	
	state16&20			20	Right Tilt	0	502000	2510	50	28	-0.16	0.009	18.91	20.70	1.510	0.014	/	
ANT4	state18	DFT-s-OFDM BPSK	NSA	20	Left	0	502000	2510	1	53	0.06	0.011	17.90	19.70	1.514	0.017	/	
	state18			20	Cheek	0	502000	2510	50	28	0.04	0.010	17.95	19.70	1.496	0.015	/	
	state18			20	Left Tilt	0	502000	2510	1	53	0.00	0.004	17.90	19.70	1.514	0.006	/	
	state18			20	Left Tilt	0	502000	2510	50	28	0.07	0.004	17.95	19.70	1.496	0.006	/	
	state18			20	Right	0	502000	2510	1	53	0.04	0.015	17.90	19.70	1.514	0.023	/	
	state18			20	Cheek	0	502000	2510	50	28	0.15	0.013	17.95	19.70	1.496	0.019	/	
	state18			20	Right Tilt	0	502000	2510	1	53	-0.07	0.009	17.90	19.70	1.514	0.014	/	
	state18			20	Right Tilt	0	502000	2510	50	28	0.11	0.007	17.95	19.70	1.496	0.010	/	
<b>Body-worn</b>																		
Ant.1	state11	DFT-s-OFDM BPSK	SA	20	Front	15	502000	2510	1	1	0.11	0.074	17.45	17.70	1.059	0.078	/	
	state11			20	Side	15	502000	2510	50	0	-0.05	0.070	17.39	17.70	1.074	0.075	/	
	state11			20	Back	15	502000	2510	1	1	-0.05	0.175	17.45	17.70	1.059	<b>0.185</b>	<b>58#</b>	
	state11			20	Side	15	502000	2510	50	0	0.00	0.168	17.39	17.70	1.074	0.180	/	

Ant.0	state11	DFT-s	SA	20	Front	15	507000	2535	1	1	0.02	0.124	22.35	23.70	1.365	0.169	/	
	state11			20	Side	15	507000	2535	50	28	-0.18	0.122	22.36	23.70	1.361	0.166	/	
	state11	OFDM		20	Back	15	507000	2535	1	1	-0.08	0.173	22.35	23.70	1.365	0.236	58#	
	state11	BPSK		20	Side	15	507000	2535	50	28	-0.07	0.170	22.36	23.70	1.361	0.231	/	
Ant.0	state11	DFT-s	NSA	20	Front	15	507000	2535	1	1	0.16	0.080	20.28	21.70	1.387	0.111	/	
	state11			20	Side	15	507000	2535	50	28	0.08	0.076	20.30	21.70	1.380	0.105	/	
	state11	OFDM		20	Back	15	507000	2535	1	1	-0.13	0.112	20.28	21.70	1.387	0.155	/	
	state11	BPSK		20	Side	15	507000	2535	50	28	-0.17	0.107	20.30	21.70	1.380	0.148	/	
ANT4	state11	DFT-s	NSA	20	Front	15	512000	2560	1	1	0.06	0.012	19.87	21.70	1.524	0.018	/	
	state11			20	Side	15	512000	2560	50	0	-0.17	0.010	19.85	21.70	1.531	0.015	/	
	state11	OFDM		20	Back	15	512000	2560	1	1	0.14	0.056	19.87	21.70	1.524	0.085	/	
	state11	BPSK		20	Side	15	512000	2560	50	0	-0.09	0.049	19.85	21.70	1.531	0.075	/	
Hotspot																		
Ant.1	state15&19	DFT-s	SA	20	Front	10	502000	2510	1	1	0.08	0.176	16.04	16.20	1.038	0.183	/	
	state15&19			20	Side	10	502000	2510	50	0	0.07	0.161	15.88	16.20	1.076	0.173	/	
	state15&19	OFDM		20	Back	10	502000	2510	1	1	-0.11	0.393	16.04	16.20	1.038	0.408	/	
	state15&19			20	Side	10	502000	2510	50	0	-0.08	0.384	15.88	16.20	1.076	0.413	/	
	state15&19	BPSK		20	Right	10	502000	2510	1	1	-0.11	0.114	16.04	16.20	1.038	0.118	/	
	state15&19			20	Edge	10	502000	2510	50	0	-0.05	0.109	15.88	16.20	1.076	0.117	/	
	state15&19	Top Edge		20	10	502000	2510	1	1	-0.15	0.538	16.04	16.20	1.038	0.558	59#		
	state15&19			20	10	502000	2510	50	0	-0.10	0.514	15.88	16.20	1.076	0.553	/		
Ant.1	state17	DFT-s	SA	20	Front	10	502000	2510	1	1	0.09	0.136	15.02	15.20	1.042	0.142	/	
	state17			20	Side	10	502000	2510	50	0	-0.12	0.131	14.89	15.20	1.074	0.141	/	
	state17	OFDM		20	Back	10	502000	2510	1	1	-0.09	0.317	15.02	15.20	1.042	0.330	/	
	state17			20	Side	10	502000	2510	50	0	-0.17	0.305	14.89	15.20	1.074	0.328	/	
	state17	BPSK		20	Right	10	502000	2510	1	1	-0.06	0.087	15.02	15.20	1.042	0.091	/	
	state17			20	Edge	10	502000	2510	50	0	-0.10	0.087	14.89	15.20	1.074	0.093	/	
	state17	Top Edge		20	10	502000	2510	1	1	-0.15	0.427	15.02	15.20	1.042	0.445	/		
	state17			20	10	502000	2510	50	0	-0.12	0.409	14.89	15.20	1.074	0.439	/		
Ant.0	state15&19	DFT-s	SA	20	Front	10	502000	2510	1	1	0.00	0.257	20.91	22.20	1.346	0.346	/	
	state15&19			20	Side	10	502000	2510	50	0	0.05	0.252	20.93	22.20	1.340	0.338	/	
	state15&19	OFDM		20	Back	10	502000	2510	1	1	0.01	0.343	20.91	22.20	1.346	0.462	/	
	state15&19			20	Side	10	502000	2510	50	0	-0.09	0.339	20.93	22.20	1.340	0.454	/	
	state15&19	BPSK		20	Left Edge	10	502000	2510	1	1	0.01	0.143	20.91	22.20	1.346	0.192	/	
	state15&19			20	10	502000	2510	50	0	-0.12	0.137	20.93	22.20	1.340	0.184	/		
	state15&19	Right		20	10	502000	2510	1	1	0.14	0.029	20.91	22.20	1.346	0.039	/		
	state15&19			20	Edge	10	502000	2510	50	0	0.13	0.027	20.93	22.20	1.340	0.036	/	
	state15&19	Bottom		20	10	502000	2510	1	1	0.00	0.223	20.91	22.20	1.346	0.300	/		
	state15&19			20	Edge	10	502000	2510	50	0	0.03	0.218	20.93	22.20	1.340	0.292	/	
Ant.0	state17	DFT-s	SA	20	Front	10	507000	2535	1	1	0.09	0.206	19.95	21.20	1.334	0.275	/	
	state17			20	Side	10	507000	2535	50	0	-0.15	0.194	19.92	21.20	1.343	0.260	/	
	state17	OFDM		20	Back	10	507000	2535	1	1	-0.12	0.272	19.95	21.20	1.334	0.363	/	
	state17			20	Side	10	502000	2510	50	0	0.08	0.268	19.92	21.20	1.343	0.360	/	
	state17	BPSK		20	Left Edge	10	507000	2535	1	1	0.16	0.115	19.95	21.20	1.334	0.153	/	
	state17			20	10	507000	2535	50	0	0.16	0.109	19.92	21.20	1.343	0.146	/		

	state17			20	Right	10	507000	2535	1	1	-0.11	0.023	19.95	21.20	1.334	0.031	/			
	state17			20	Edge	10	507000	2535	50	0	-0.07	0.022	19.92	21.20	1.343	0.030	/			
	state17			20	Bottom	10	507000	2535	1	1	-0.17	0.177	19.95	21.20	1.334	0.236	/			
	state17			20	Edge	10	507000	2535	50	0	-0.09	0.175	19.92	21.20	1.343	0.235	/			
Ant.0	state15&19	DFT-s-OFDM BPSK	NSA	20	Front	10	502000	2510	1	53	-0.06	0.144	18.31	19.70	1.377	0.198	/			
	state15&19			20	Side	10	502000	2510	50	0	0.11	0.135	18.42	19.70	1.343	0.181	/			
	state15&19			20	Back	10	502000	2510	1	53	0.18	0.199	18.31	19.70	1.377	0.274	/			
	state15&19			20	Side	10	502000	2510	50	0	-0.04	0.186	18.42	19.70	1.343	0.250	/			
	state15&19			20	Left Edge	10	502000	2510	1	53	0.05	0.084	18.31	19.70	1.377	0.116	/			
	state15&19			20		10	502000	2510	50	0	-0.07	0.079	18.42	19.70	1.343	0.106	/			
	state15&19			20	Right	10	502000	2510	1	53	-0.09	0.017	18.31	19.70	1.377	0.023	/			
	state15&19			20	Edge	10	502000	2510	50	0	0.19	0.016	18.42	19.70	1.343	0.021	/			
	state15&19			20	Bottom	10	502000	2510	1	53	0.04	0.127	18.31	19.70	1.377	0.175	/			
	state15&19			20	Edge	10	502000	2510	50	0	0.15	0.120	18.42	19.70	1.343	0.161	/			
	Ant.0			state17	DFT-s-OFDM BPSK	NSA	20	Front	10	502000	2510	1	1	-0.12	0.102	16.84	18.20	1.368	0.140	/
				state17			20	Side	10	507000	2535	50	0	-0.10	0.092	16.86	18.20	1.361	0.125	/
state17		20	Back	10			502000	2510	1	1	0.02	0.130	16.84	18.20	1.368	0.178	/			
state17		20	Side	10			507000	2535	50	0	0.17	0.128	16.86	18.20	1.361	0.174	/			
state17		20	Left Edge	10			502000	2510	1	1	0.09	0.056	16.84	18.20	1.368	0.077	/			
state17		20		10			507000	2535	50	0	0.05	0.053	16.86	18.20	1.361	0.072	/			
state17		20	Right	10			502000	2510	1	1	-0.11	0.012	16.84	18.20	1.368	0.016	/			
state17		20	Edge	10			507000	2535	50	0	-0.12	0.011	16.86	18.20	1.361	0.015	/			
state17		20	Bottom	10			502000	2510	1	1	0.19	0.084	16.84	18.20	1.368	0.115	/			
state17		20	Edge	10			507000	2535	50	0	-0.06	0.081	16.86	18.20	1.361	0.110	/			
ANT4		state15&19	DFT-s-OFDM BPSK	NSA			20	Front	10	502000	2510	1	53	0.14	0.037	18.89	20.70	1.517	0.056	/
		state15&19					20	Side	10	502000	2510	50	28	-0.14	0.033	18.91	20.70	1.510	0.050	/
	state15&19	20			Back	10	502000	2510	1	53	-0.06	0.199	18.89	20.70	1.517	0.302	/			
	state15&19	20			Side	10	502000	2510	50	28	0.03	0.180	18.91	20.70	1.510	0.272	/			
	state15&19	20			Left Edge	10	502000	2510	1	53	0.07	0.099	18.89	20.70	1.517	0.150	/			
	state15&19	20				10	502000	2510	50	28	0.11	0.104	18.91	20.70	1.510	0.157	/			
	state15&19	20			Top Edge	10	502000	2510	1	53	0.07	0.016	18.89	20.70	1.517	0.024	/			
	state15&19	20				10	502000	2510	50	28	0.11	0.014	18.91	20.70	1.510	0.021	/			
	ANT4	state17			DFT-s-OFDM BPSK	NSA	20	Front	10	502000	2510	1	53	-0.05	0.031	17.90	19.70	1.514	0.047	/
		state17					20	Side	10	502000	2510	50	28	-0.02	0.027	17.95	19.70	1.496	0.040	/
state17		20	Back	10			502000	2510	1	53	0.06	0.153	17.90	19.70	1.514	0.232	/			
state17		20	Side	10			502000	2510	50	28	0.00	0.145	17.95	19.70	1.496	0.217	/			
state17		20	Left Edge	10			502000	2510	1	53	-0.04	0.083	17.90	19.70	1.514	0.126	/			
state17		20		10			502000	2510	50	28	-0.14	0.080	17.95	19.70	1.496	0.120	/			
state17		20	Top Edge	10			502000	2510	1	53	-0.19	0.013	17.90	19.70	1.514	0.020	/			
state17		20		10			502000	2510	50	28	0.10	0.011	17.95	19.70	1.496	0.016	/			

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



Antenna	Power Reduction	Mode	Information	Bandwidth (MHz)	Position	Dist. (mm)	Ch.	Freq. (MHz)	VRB Length	VRB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.	
<b>Specific</b>																		
Ant.1	state11	DFT-s-OFDM BPSK	SA	20	Front	0	502000	2510	1	1	0.12	0.582	17.45	17.70	1.059	0.616	/	
	state11			20	Side	0	502000	2510	50	0	-0.05	0.579	17.39	17.70	1.074	0.622	/	
	state11			20	Back	0	502000	2510	1	1	0.12	1.110	17.45	17.70	1.059	1.176	/	
	state11			20	Side	0	502000	2510	50	0	-0.16	1.090	17.39	17.70	1.074	1.171	/	
	state11			20	Right	0	502000	2510	1	1	-0.17	0.239	17.45	17.70	1.059	0.253	/	
	state11			20	Edge	0	502000	2510	50	0	0.16	0.232	17.39	17.70	1.074	0.249	/	
	state11			20	Top Edge	0	502000	2510	1	1	0.14	1.140	17.45	17.70	1.059	<b>1.208</b>	60#	
	state11			20		0	502000	2510	50	0	-0.14	1.120	17.39	17.70	1.074	1.203	/	
	Ant.1			state15&19	DFT-s-OFDM BPSK	SA	20	Front	0	502000	2510	1	1	-0.06	0.399	16.04	16.20	1.038
state15&19		20	Side	0			502000	2510	50	0	0.00	0.397	15.88	16.20	1.076	0.427	/	
state15&19		20	Back	0			502000	2510	1	1	-0.01	0.771	16.04	16.20	1.038	0.800	/	
state15&19		20	Side	0			502000	2510	50	0	0.07	0.762	15.88	16.20	1.076	0.820	/	
state15&19		20	Right	0			502000	2510	1	1	-0.10	0.172	16.04	16.20	1.038	0.178	/	
state15&19		20	Edge	0			502000	2510	50	0	-0.18	0.168	15.88	16.20	1.076	0.181	/	
state15&19		20	Top Edge	0			502000	2510	1	1	0.12	0.785	16.04	16.20	1.038	0.814	/	
state15&19		20		0			502000	2510	50	0	0.18	0.779	15.88	16.20	1.076	0.839	/	
Ant.1		state17	DFT-s-OFDM BPSK	SA			20	Front	0	502000	2510	1	1	0.07	0.326	15.02	15.20	1.042
	state17	20			Side	0	502000	2510	50	0	0.00	0.318	14.89	15.20	1.074	0.342	/	
	state17	20			Back	0	502000	2510	1	1	0.09	0.587	15.02	15.20	1.042	0.612	/	
	state17	20			Side	0	502000	2510	50	0	0.12	0.584	14.89	15.20	1.074	0.627	/	
	state17	20			Right	0	502000	2510	1	1	0.01	0.141	15.02	15.20	1.042	0.147	/	
	state17	20			Edge	0	502000	2510	50	0	0.15	0.139	14.89	15.20	1.074	0.149	/	
	state17	20			Top Edge	0	502000	2510	1	1	-0.06	0.637	15.02	15.20	1.042	0.664	/	
	state17	20				0	502000	2510	50	0	-0.17	0.630	14.89	15.20	1.074	0.677	/	

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

### 10.22 n38 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Information	Bandwidth (MHz)	Position	Dist. (mm)	Ch.	Freq. (MHz)	VRB Length	VRB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.	
<b>Head</b>																		
Ant.1	state12&16&18&20	DFT-s-OFDM BPSK	SA	30	Left Cheek	0	517000	2585	1	1	-0.15	0.239	17.86	18.20	1.081	0.258	/	
	state12&16&18&20			30		0	517000	2585	36	21	0.13	0.234	17.90	18.20	1.072	0.251	/	
	state12&16&18&20			30	Left Tilt	0	517000	2585	1	1	-0.11	0.328	17.86	18.20	1.081	0.355	/	
	state12&16&18&20			30		0	517000	2585	36	21	0.17	0.320	17.90	18.20	1.072	0.343	/	
	state12&16&18&20			30	Right Cheek	0	517000	2585	1	1	-0.19	0.673	17.86	18.20	1.081	0.728	/	
	state12&16&18&20			30		0	517000	2585	36	21	-0.13	0.668	17.90	18.20	1.072	0.716	/	
	state12&16&18&20			30	Right Tilt	0	517000	2585	1	1	0.14	0.771	17.86	18.20	1.081	0.834	/	
	state12&16&18&20			30		0	517000	2585	36	21	0.14	0.771	17.86	18.20	1.081	0.834	/	

	state12&16&18&20			30		0	519000	2595	1	1	0.07	0.749	17.70	18.20	1.122	0.840	/	
	state12&16&18&20			30		0	521000	2605	1	1	0.03	0.813	17.74	18.20	1.112	0.904	61#	
	state12&16&18&20			30		0	517000	2585	36	21	0.01	0.758	17.90	18.20	1.072	0.812	/	
	state12&16&18&20			30		0	519000	2595	36	0	-0.09	0.733	17.57	18.20	1.156	0.847	/	
	state12&16&18&20			30		0	521000	2605	36	0	-0.03	0.806	17.87	18.20	1.079	0.870	/	
	state12&16&18&20			30		0	519000	2595	75	0	-0.14	0.747	17.68	18.20	1.127	0.842	/	
Ant.0	state12&16&18&20	DFT-s- OFDM BPSK	SA	30	Left Cheek	0	517000	2585	1	39	0.18	0.114	23.03	24.20	1.309	0.149	/	
	state12&16&18&20			30		0	517000	2585	36	0	-0.11	0.112	23.07	24.20	1.297	0.145	/	
	state12&16&18&20			30	Left Tilt	0	517000	2585	1	39	0.16	0.068	23.03	24.20	1.309	0.089	/	
	state12&16&18&20			30		0	517000	2585	36	0	0.08	0.063	23.07	24.20	1.297	0.082	/	
	state12&16&18&20			30	Right Cheek	0	517000	2585	1	39	-0.07	0.155	23.03	24.20	1.309	0.203	/	
	state12&16&18&20			30		0	517000	2585	36	0	0.04	0.149	23.07	24.20	1.297	0.193	/	
	state12&16&18&20			30	Right Tilt	0	517000	2585	1	39	0.00	0.112	23.03	24.20	1.309	0.147	/	
	state12&16&18&20			30		0	517000	2585	36	0	0.00	0.108	23.07	24.20	1.297	0.140	/	
<b>Body-worn</b>																		
Ant.1	state11	DFT-s- OFDM BPSK	SA	30	Front Side	15	517000	2585	1	1	0.13	0.083	18.89	19.20	1.074	0.089	/	
	state11			30		15	517000	2585	36	0	0.18	0.080	18.83	19.20	1.089	0.087	/	
	state11			30	Back Side	15	517000	2585	1	1	-0.10	0.207	18.89	19.20	1.074	0.222	/	
	state11			30		15	517000	2585	36	0	0.14	0.197	18.83	19.20	1.089	0.215	/	
Ant.0	state11	DFT-s- OFDM BPSK	SA	30	Front Side	15	517000	2585	1	39	-0.06	0.146	23.03	24.20	1.309	0.191	/	
	state11			30		15	517000	2585	36	0	-0.09	0.142	23.07	24.20	1.297	0.184	/	
	state11			30	Back Side	15	517000	2585	1	39	0.18	0.239	23.03	24.20	1.309	0.313	62#	
	state11			30		15	517000	2585	36	0	0.14	0.231	23.07	24.20	1.297	0.300	/	
<b>Hotspot</b>																		
Ant.1	state15&17&19	DFT-s- OFDM BPSK	SA	30	Front Side	10	517000	2585	1	1	-0.07	0.232	17.86	18.20	1.081	0.251	/	
	state15&17&19			30		10	517000	2585	36	21	-0.12	0.229	17.90	18.20	1.072	0.245	/	
	state15&17&19			30	Back Side	10	517000	2585	1	1	0.01	0.673	17.86	18.20	1.081	0.728	/	
	state15&17&19			30		10	517000	2585	36	21	-0.15	0.669	17.90	18.20	1.072	0.717	/	
	state15&17&19			30	Right Edge	10	517000	2585	1	1	0.15	0.174	17.86	18.20	1.081	0.188	/	
	state15&17&19			30		10	517000	2585	36	21	0.18	0.166	17.90	18.20	1.072	0.178	/	
	state15&17&19			30	Top Edge	10	517000	2585	1	1	-0.11	0.765	17.86	18.20	1.081	0.827	/	
	state15&17&19			30		10	519000	2595	1	1	-0.06	0.782	17.70	18.20	1.122	0.877	63#	
	state15&17&19			30		10	521000	2605	1	1	-0.19	0.743	17.74	18.20	1.112	0.826	/	
	state15&17&19			30		10	517000	2585	36	21	0.16	0.752	17.90	18.20	1.072	0.806	/	
	state15&17&19			30		10	519000	2595	36	0	-0.07	0.746	17.57	18.20	1.156	0.862	/	
	state15&17&19			30		10	521000	2605	36	0	-0.06	0.778	17.87	18.20	1.079	0.839	/	
	state15&17&19			30	10	519000	2595	75	0	0.10	0.763	17.68	18.20	1.127	0.860	/		
	Ant.0			state15&19	DFT-s- OFDM BPSK	SA	30	Front Side	10	519000	2595	1	1	0.07	0.324	23.03	23.20	1.040
state15&19		30	10	519000			2595		36	42	0.10	0.317	23.07	23.20	1.030	0.327	/	
state15&19		30	Back Side	10			519000	2595	1	1	-0.03	0.472	23.03	23.20	1.040	0.491	/	
state15&19		30		10			519000	2595	36	42	0.04	0.465	23.07	23.20	1.030	0.479	/	
state15&19		30	Left Edge	10			519000	2595	1	1	-0.07	0.153	23.03	23.20	1.040	0.159	/	
state15&19		30		10			519000	2595	36	42	0.08	0.150	23.07	23.20	1.030	0.155	/	
state15&19		30	Right Edge	10			519000	2595	1	1	-0.13	0.049	23.03	23.20	1.040	0.051	/	
state15&19		30		10			519000	2595	36	42	-0.19	0.044	23.07	23.20	1.030	0.045	/	

	state15&19			30	Bottom	10	519000	2595	1	1	-0.04	0.213	23.03	23.20	1.040	0.222	/
	state15&19			30	Edge	10	519000	2595	36	42	0.05	0.208	23.07	23.20	1.030	0.214	/
Ant.0	state17	DFT-s-OFDM BPSK	SA	30	Front Side	10	519000	2595	1	39	-0.04	0.234	21.47	22.70	1.327	0.311	/
	state17			30		10	517000	2585	36	0	0.19	0.224	21.57	22.70	1.297	0.291	/
	state17			Back Side	30	10	519000	2595	1	39	-0.17	0.341	21.47	22.70	1.327	0.453	/
	state17				30	10	517000	2585	36	0	0.13	0.327	21.57	22.70	1.297	0.424	/
	state17			Left Edge	30	10	519000	2595	1	39	-0.08	0.106	21.47	22.70	1.327	0.141	/
	state17				30	10	517000	2585	36	0	0.09	0.101	21.57	22.70	1.297	0.131	/
	state17			Right Edge	30	10	519000	2595	1	39	0.11	0.034	21.47	22.70	1.327	0.045	/
	state17				30	10	517000	2585	36	0	0.03	0.030	21.57	22.70	1.297	0.039	/
	state17			Bottom	30	10	519000	2595	1	39	-0.07	0.155	21.47	22.70	1.327	0.206	/
	state17				30	10	517000	2585	36	0	-0.15	0.141	21.57	22.70	1.297	0.183	/

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

Antenna	Power Reduction	Mode	Information	Bandwidth (MHz)	Position	Dist. (mm)	Ch.	Freq. (MHz)	VRB Length	VRB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
<b>Specific</b>																	
Ant.1	state11	DFT-s-OFDM BPSK	SA	30	Front Side	0	517000	2585	1	1	-0.13	0.650	18.89	19.20	1.074	0.698	/
	state11			30		0	517000	2585	36	0	-0.16	0.642	18.83	19.20	1.089	0.699	/
	state11			Back Side	30	0	517000	2585	1	1	-0.13	0.948	18.89	19.20	1.074	1.018	/
	state11				30	0	517000	2585	36	0	-0.15	0.923	18.83	19.20	1.089	1.005	/
	state11			Right Edge	30	0	517000	2585	1	1	0.19	0.016	18.89	19.20	1.074	0.017	/
	state11				30	0	517000	2585	36	0	-0.15	0.014	18.83	19.20	1.089	0.015	/
	state11			Top Edge	30	0	517000	2585	1	1	0.13	1.400	18.89	19.20	1.074	<b>1.504</b>	64#
	state11				30	0	517000	2585	36	0	0.17	1.340	18.83	19.20	1.089	1.459	/
Ant.1	state15&17&19	DFT-s-OFDM BPSK	SA	30	Front Side	0	517000	2585	1	1	-0.05	0.528	17.86	18.20	1.081	0.571	/
	state15&17&19			30		0	517000	2585	36	21	0.00	0.524	17.90	18.20	1.072	0.561	/
	state15&17&19			Back Side	30	0	517000	2585	1	1	0.15	0.766	17.86	18.20	1.081	0.828	/
	state15&17&19				30	0	517000	2585	36	21	0.10	0.749	17.90	18.20	1.072	0.803	/
	state15&17&19			Right Edge	30	0	517000	2585	1	1	-0.17	0.015	17.86	18.20	1.081	0.016	/
	state15&17&19				30	0	517000	2585	36	21	0.12	0.011	17.90	18.20	1.072	0.012	/
	state15&17&19			Top Edge	30	0	517000	2585	1	1	-0.06	1.140	17.86	18.20	1.081	1.233	/
	state15&17&19				30	0	517000	2585	36	21	0.07	1.120	17.90	18.20	1.072	1.200	/

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

### 10.23 n41 (100MHz Bandwidth)

Antenna	Power Reduction	Mode	Information	Bandwidth (MHz)	Position	Dist. (mm)	Ch.	Freq. (MHz)	VRB Length	VRB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>																	
Ant.1	state12&16&18&20		SA	100		0	528000	2640	1	1	-0.06	0.312	17.06	17.20	1.033	0.322	/

state12&16&18&20	DFT-s-OFDM BPSK	100	Left Cheek	0	528000	2640	135	69	-0.15	0.309	17.09	17.20	1.026	0.317	/			
			Left Tilt	0	528000	2640	1	1	0.15	0.418	17.06	17.20	1.033	0.432	/			
				0	528000	2640	135	69	0.10	0.412	17.09	17.20	1.026	0.423	/			
			Right Cheek	0	528000	2640	1	1	-0.19	0.813	17.06	17.20	1.033	0.840	/			
				0	509202	2546.01	1	1	0.15	0.794	17.04	17.20	1.038	0.824	/			
				0	513900	2569.5	1	1	-0.01	0.743	16.98	17.20	1.052	0.782	/			
				0	518598	2592.99	1	1	0.00	0.762	17.04	17.20	1.038	0.791	/			
				0	523302	2616.51	1	137	0.08	0.782	16.90	17.20	1.072	0.838	/			
				0	528000	2640	135	0	0.15	0.804	17.09	17.20	1.026	0.825	/			
				0	509202	2546.01	135	0	0.19	0.773	17.04	17.20	1.038	0.802	/			
				0	513900	2569.5	135	0	-0.02	0.752	16.90	17.20	1.072	0.806	/			
				0	518598	2592.99	135	0	-0.15	0.779	17.04	17.20	1.038	0.808	/			
				0	523302	2616.51	135	138	-0.09	0.738	16.77	17.20	1.104	0.815	/			
			Right Tilt	0	528000	2640	270	0	0.16	0.746	16.88	17.20	1.076	0.803	/			
				0	528000	2640	1	1	-0.15	0.952	17.06	17.20	1.033	0.983	/			
				0	509202	2546.01	1	1	0.07	0.973	17.04	17.20	1.038	<b>1.010</b>	65#			
				0	513900	2569.5	1	1	0.09	0.939	16.98	17.20	1.052	0.988	/			
				0	518598	2592.99	1	1	0.08	0.948	17.04	17.20	1.038	0.984	/			
				0	523302	2616.51	1	137	-0.18	0.934	16.90	17.20	1.072	1.001	/			
				0	528000	2640	135	0	0.16	0.953	17.09	17.20	1.026	0.977	/			
				0	509202	2546.01	135	0	-0.02	0.948	17.04	17.20	1.038	0.984	/			
				0	513900	2569.5	135	0	0.07	0.936	16.90	17.20	1.072	1.003	/			
				0	518598	2592.99	135	0	0.08	0.942	17.04	17.20	1.038	0.977	/			
			0	523302	2616.51	135	138	0.09	0.928	16.89	17.20	1.074	0.997	/				
			0	528000	2640	270	0	-0.17	0.932	16.88	17.20	1.076	1.003	/				
			state12&16&18&20	DFT-s-OFDM BPSK	100	Left	0	509202	2546.01	1	137	-0.05	0.173	22.56	24.20	1.459	0.252	/
						Cheek	0	509202	2546.01	135	69	0.15	0.167	22.63	24.20	1.435	0.240	/
						Left Tilt	0	509202	2546.01	1	137	-0.17	0.123	22.56	24.20	1.459	0.179	/
0	509202	2546.01					135	69	0.09	0.116	22.63	24.20	1.435	0.167	/			
Right	0	509202				2546.01	1	137	0.00	0.291	22.56	24.20	1.459	0.425	/			
Cheek	0	509202				2546.01	135	69	0.04	0.285	22.63	24.20	1.435	0.409	/			
Right	0	509202				2546.01	1	137	-0.05	0.086	22.56	24.20	1.459	0.125	/			
Tilt	0	509202				2546.01	135	69	-0.14	0.082	22.63	24.20	1.435	0.118	/			
state12	DFT-s-OFDM BPSK	100				Left	0	518598	2592.99	1	1	-0.14	0.016	20.41	21.70	1.346	0.022	/
			Cheek	0	518598	2592.99	135	0	-0.01	0.015	20.42	21.70	1.343	0.020	/			
			Left Tilt	0	518598	2592.99	1	1	-0.10	0.006	20.41	21.70	1.346	0.008	/			
				0	518598	2592.99	135	0	0.15	0.006	20.42	21.70	1.343	0.008	/			
			Right	0	518598	2592.99	1	1	0.17	0.026	20.41	21.70	1.346	0.035	/			
			Cheek	0	518598	2592.99	135	0	-0.14	0.022	20.42	21.70	1.343	0.030	/			
			Right	0	518598	2592.99	1	1	-0.06	0.014	20.41	21.70	1.346	0.019	/			
			Tilt	0	518598	2592.99	135	0	-0.16	0.012	20.42	21.70	1.343	0.016	/			
state16&20	DFT-s-OFDM BPSK	100	Left	0	518598	2592.99	1	1	0.11	0.016	20.41	20.70	1.069	0.017	/			
			Cheek	0	518598	2592.99	135	0	0.12	0.015	20.42	20.70	1.067	0.016	/			
			Left Tilt	0	518598	2592.99	1	1	0.00	0.006	20.41	20.70	1.069	0.006	/			

	state16&20			100		0	518598	2592.99	135	0	-0.16	0.006	20.42	20.70	1.067	0.006	/	
	state16&20			100	Right	0	518598	2592.99	1	1	-0.06	0.026	20.41	20.70	1.069	0.028	/	
	state16&20			100	Cheek	0	518598	2592.99	135	0	-0.10	0.022	20.42	20.70	1.067	0.023	/	
	state16&20			100	Right	0	518598	2592.99	1	1	0.11	0.014	20.41	20.70	1.069	0.015	/	
	state16&20			100	Tilt	0	518598	2592.99	135	0	0.03	0.012	20.42	20.70	1.067	0.013	/	
ANT4	state18	DFT-s-OFDM BPSK	NSA	100	Left	0	528000	2640	1	1	-0.10	0.016	19.32	19.70	1.091	0.017	/	
	state18			100	Cheek	0	528000	2640	135	0	0.12	0.014	19.42	19.70	1.067	0.015	/	
	state18			100	Left Tilt	0	528000	2640	1	1	-0.03	0.005	19.32	19.70	1.091	0.005	/	
	state18			100		0	528000	2640	135	0	0.05	0.007	19.42	19.70	1.067	0.007	/	
	state18			100	Right	0	528000	2640	1	1	0.09	0.020	19.32	19.70	1.091	0.022	/	
	state18			100	Cheek	0	528000	2640	135	0	0.08	0.017	19.42	19.70	1.067	0.018	/	
	state18			100	Right	0	528000	2640	1	1	0.00	0.011	19.32	19.70	1.091	0.012	/	
	state18			100	Tilt	0	528000	2640	135	0	0.13	0.011	19.42	19.70	1.067	0.012	/	
<b>Body-worn</b>																		
Ant.1	state11	DFT-s-OFDM BPSK	SA	100	Front	15	518598	2592.99	1	137	-0.17	0.139	18.47	19.20	1.183	0.164	/	
	state11			100	Side	15	518598	2592.99	135	69	-0.14	0.134	18.51	19.20	1.172	0.157	/	
	state11			100	Back	15	518598	2592.99	1	137	0.09	0.235	18.47	19.20	1.183	0.278	/	
	state11			100	Side	15	518598	2592.99	135	69	0.19	0.227	18.51	19.20	1.172	0.266	/	
Ant.0	state11	DFT-s-OFDM BPSK	SA	100	Front	15	509202	2546.01	1	137	0.17	0.104	22.56	24.20	1.459	0.152	/	
	state11			100	Side	15	509202	2546.01	135	69	-0.07	0.100	22.63	24.20	1.435	0.144	/	
	state11			100	Back	15	509202	2546.01	1	137	0.07	0.193	22.56	24.20	1.459	<b>0.282</b>	66#	
	state11			100	Side	15	509202	2546.01	135	69	-0.06	0.189	22.63	24.20	1.435	0.271	/	
Ant.0	state11	DFT-s-OFDM BPSK	NSA	100	Front	15	509202	2546.01	1	137	0.17	0.104	22.56	22.70	1.033	0.107	/	
	state11			100	Side	15	509202	2546.01	135	69	-0.07	0.100	22.63	22.70	1.016	0.102	/	
	state11			100	Back	15	509202	2546.01	1	137	0.07	0.193	22.56	22.70	1.033	0.199	/	
	state11			100	Side	15	509202	2546.01	135	69	-0.06	0.189	22.63	22.70	1.016	0.192	/	
ANT4	state11	DFT-s-OFDM BPSK	NSA	100	Front	15	518598	2592.99	1	1	0.14	0.016	20.41	21.70	1.346	0.022	/	
	state11			100	Side	15	518598	2592.99	135	0	0.15	0.014	20.42	21.70	1.343	0.019	/	
	state11			100	Back	15	518598	2592.99	1	1	0.13	0.064	20.41	21.70	1.346	0.086	/	
	state11			100	Side	15	518598	2592.99	135	0	0.00	0.060	20.42	21.70	1.343	0.081	/	
<b>Hotspot</b>																		
Ant.1	state15&19	DFT-s-OFDM BPSK	SA	100	Front	10	518598	2592.99	1	137	-0.07	0.122	17.06	17.70	1.159	0.141	/	
	state15&19			100	Side	10	518598	2592.99	135	69	0.15	0.120	16.95	17.70	1.189	0.143	/	
	state15&19			100	Back	10	518598	2592.99	1	137	0.02	0.334	17.06	17.70	1.159	0.387	/	
	state15&19			100	Side	10	518598	2592.99	135	69	0.14	0.329	16.95	17.70	1.189	0.391	/	
	state15&19			100	Right	10	518598	2592.99	1	137	0.13	0.084	17.06	17.70	1.159	0.097	/	
	state15&19			100	Edge	10	518598	2592.99	135	69	-0.01	0.080	16.95	17.70	1.189	0.095	/	
	state15&19			100	Top	10	518598	2592.99	1	137	0.16	0.551	17.06	17.70	1.159	<b>0.638</b>	67#	
	state15&19			100	Edge	10	518598	2592.99	135	0	-0.11	0.534	16.95	17.70	1.189	0.635	/	
Ant.1	state17	DFT-s-OFDM BPSK	SA	100	Front	10	518598	2592.99	1	137	-0.19	0.096	15.89	16.20	1.074	0.103	/	
	state17			100	Side	10	518598	2592.99	135	69	-0.12	0.091	16.00	16.20	1.047	0.095	/	
	state17			100	Back	10	518598	2592.99	1	137	-0.02	0.267	15.89	16.20	1.074	0.287	/	
	state17			100	Side	10	518598	2592.99	135	69	0.00	0.264	16.00	16.20	1.047	0.276	/	
	state17			100	Right	10	518598	2592.99	1	137	-0.15	0.067	15.89	16.20	1.074	0.072	/	
	state17			100	Edge	10	518598	2592.99	135	69	-0.02	0.065	16.00	16.20	1.047	0.068	/	

	state17			100	Top	10	518598	2592.99	1	137	-0.19	0.439	15.89	16.20	1.074	0.471	/			
	state17			100	Edge	10	518598	2592.99	135	69	0.11	0.422	16.00	16.20	1.047	0.442	/			
Ant.0	state15&19	DFT-s-OFDM BPSK	SA	100	Front	10	509202	2546.01	1	137	0.16	0.232	22.56	23.20	1.159	0.269	/			
	state15&19			100	Side	10	509202	2546.01	135	69	0.08	0.228	22.63	23.20	1.140	0.260	/			
	state15&19			100	Back	10	509202	2546.01	1	137	-0.12	0.355	22.56	23.20	1.159	0.411	/			
	state15&19			100	Side	10	509202	2546.01	135	69	-0.18	0.351	22.63	23.20	1.140	0.400	/			
	state15&19			100	Left	10	509202	2546.01	1	137	0.12	0.094	22.56	23.20	1.159	0.109	/			
	state15&19			100	Edge	10	509202	2546.01	135	69	0.15	0.092	22.63	23.20	1.140	0.105	/			
	state15&19			100	Right	10	509202	2546.01	1	137	0.08	0.033	22.56	23.20	1.159	0.038	/			
	state15&19			100	Edge	10	509202	2546.01	135	69	-0.17	0.031	22.63	23.20	1.140	0.035	/			
	state15&19			100	Bottom	10	509202	2546.01	1	137	-0.06	0.174	22.56	23.20	1.159	0.202	/			
	state15&19			100	Edge	10	509202	2546.01	135	69	-0.18	0.172	22.63	23.20	1.140	0.196	/			
	Ant.0			state17	DFT-s-OFDM BPSK	SA	100	Front	10	518598	2592.99	1	1	-0.06	0.189	21.45	22.20	1.189	0.225	/
				state17			100	Side	10	518598	2592.99	135	69	0.04	0.182	21.44	22.20	1.191	0.217	/
state17		100	Back	10			518598	2592.99	1	1	0.17	0.285	21.45	22.20	1.189	0.339	/			
state17		100	Side	10			518598	2592.99	135	69	-0.03	0.274	21.44	22.20	1.191	0.326	/			
state17		100	Left	10			518598	2592.99	1	1	-0.17	0.076	21.45	22.20	1.189	0.090	/			
state17		100	Edge	10			518598	2592.99	135	69	-0.18	0.075	21.44	22.20	1.191	0.089	/			
state17		100	Right	10			518598	2592.99	1	1	-0.13	0.025	21.45	22.20	1.189	0.030	/			
state17		100	Edge	10			518598	2592.99	135	69	0.10	0.023	21.44	22.20	1.191	0.027	/			
state17		100	Bottom	10			518598	2592.99	1	1	0.01	0.134	21.45	22.20	1.189	0.159	/			
state17		100	Edge	10			518598	2592.99	135	69	-0.04	0.131	21.44	22.20	1.191	0.156	/			
Ant.0		state15&19	DFT-s-OFDM BPSK	NSA			100	Front	10	509202	2546.01	1	271	-0.08	0.121	19.40	21.20	1.514	0.183	/
		state15&19					100	Side	10	509202	2546.01	135	69	0.11	0.116	19.38	21.20	1.521	0.176	/
	state15&19	100			Back	10	509202	2546.01	1	271	-0.12	0.173	19.40	21.20	1.514	0.262	/			
	state15&19	100			Side	10	509202	2546.01	135	69	0.01	0.171	19.38	21.20	1.521	0.260	/			
	state15&19	100			Left	10	509202	2546.01	1	271	0.19	0.048	19.40	21.20	1.514	0.073	/			
	state15&19	100			Edge	10	509202	2546.01	135	69	0.00	0.046	19.38	21.20	1.521	0.070	/			
	state15&19	100			Right	10	509202	2546.01	1	271	-0.19	0.016	19.40	21.20	1.514	0.024	/			
	state15&19	100			Edge	10	509202	2546.01	135	69	0.08	0.015	19.38	21.20	1.521	0.023	/			
	state15&19	100			Bottom	10	509202	2546.01	1	271	0.19	0.089	19.40	21.20	1.514	0.135	/			
	state15&19	100			Edge	10	509202	2546.01	135	69	0.04	0.084	19.38	21.20	1.521	0.128	/			
	Ant.0	state17			DFT-s-OFDM BPSK	NSA	100	Front	10	518598	2592.99	1	137	-0.06	0.085	18.09	19.70	1.449	0.123	/
		state17					100	Side	10	518598	2592.99	135	69	0.12	0.081	18.13	19.70	1.435	0.116	/
state17		100	Back	10			518598	2592.99	1	137	-0.12	0.120	18.09	19.70	1.449	0.174	/			
state17		100	Side	10			518598	2592.99	135	69	-0.16	0.117	18.13	19.70	1.435	0.168	/			
state17		100	Left	10			518598	2592.99	1	137	-0.09	0.034	18.09	19.70	1.449	0.049	/			
state17		100	Edge	10			518598	2592.99	135	69	-0.16	0.031	18.13	19.70	1.435	0.045	/			
state17		100	Right	10			518598	2592.99	1	137	-0.13	0.011	18.09	19.70	1.449	0.016	/			
state17		100	Edge	10			518598	2592.99	135	69	0.06	0.011	18.13	19.70	1.435	0.016	/			
state17		100	Bottom	10			518598	2592.99	1	137	-0.07	0.062	18.09	19.70	1.449	0.090	/			
state17		100	Edge	10			518598	2592.99	135	69	-0.17	0.059	18.13	19.70	1.435	0.085	/			
ANT4		state15&19	DFT-s-	NSA			100	Front	10	518598	2592.99	1	1	-0.16	0.043	20.41	20.70	1.069	0.046	/
		state15&19	OFDM				100	Side	10	518598	2592.99	135	0	0.13	0.039	20.42	20.70	1.067	0.042	/
	state15&19	BPSK	100			10	518598	2592.99	1	1	0.11	0.217	20.41	20.70	1.069	0.232	/			

	state15&19			100	Back Side	10	518598	2592.99	135	0	-0.18	0.212	20.42	20.70	1.067	0.226	/
	state15&19			100	Left	10	518598	2592.99	1	1	0.13	0.112	20.41	20.70	1.069	0.120	/
	state15&19			100	Edge	10	518598	2592.99	135	0	0.15	0.110	20.42	20.70	1.067	0.117	/
ANT4	state17	DFT-s-OFDM BPSK	NSA	100	Front	10	518598	2592.99	1	1	-0.16	0.033	19.32	19.70	1.091	0.036	/
	state17			100	Side	10	518598	2592.99	135	0	0.08	0.031	19.42	19.70	1.067	0.033	/
	state17			100	Back	10	518598	2592.99	1	1	-0.01	0.177	19.32	19.70	1.091	0.193	/
	state17			100	Side	10	518598	2592.99	135	0	0.04	0.166	19.42	19.70	1.067	0.177	/
	state17			100	Left	10	518598	2592.99	1	1	-0.15	0.092	19.32	19.70	1.091	0.100	/
	state17			100	Edge	10	518598	2592.99	135	0	-0.12	0.090	19.42	19.70	1.067	0.096	/

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

Antenna	Power Reduction	Mode	Information	Bandwidth (MHz)	Position	Dist. (mm)	Ch.	Freq. (MHz)	VRB Length	VRB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
<b>Specific</b>																	
Ant.1	state11	DFT-s-OFDM BPSK	SA	100	Front	0	518598	2592.99	1	137	0.10	1.220	18.47	19.20	1.183	1.443	/
	state11			100	Side	0	518598	2592.99	135	69	-0.19	1.200	18.51	19.20	1.172	1.407	/
	state11			100	Back	0	518598	2592.99	1	137	0.18	1.530	18.47	19.20	1.183	1.810	/
	state11			100	Side	0	518598	2592.99	135	69	0.07	1.480	18.51	19.20	1.172	1.735	/
	state11			100	Right	0	518598	2592.99	1	137	0.18	0.484	18.47	19.20	1.183	0.573	/
	state11			100	Edge	0	518598	2592.99	135	69	0.16	0.475	18.51	19.20	1.172	0.557	/
	state11			100	Top	0	518598	2592.99	1	137	-0.10	1.690	19.48	20.20	1.180	1.995	68#
	state11			100	Edge	0	518598	2592.99	135	69	-0.03	1.650	19.48	20.20	1.180	1.948	/
Ant.1	state15&19	DFT-s-OFDM BPSK	SA	100	Front	0	518598	2592.99	1	137	-0.15	0.956	17.06	17.70	1.159	1.108	/
	state15&19			100	Side	0	518598	2592.99	135	69	-0.02	0.952	16.95	17.70	1.189	1.131	/
	state15&19			100	Back	0	518598	2592.99	1	137	0.05	1.250	17.06	17.70	1.159	1.448	/
	state15&19			100	Side	0	518598	2592.99	135	69	0.01	1.220	16.95	17.70	1.189	1.450	/
	state15&19			100	Right	0	518598	2592.99	1	137	0.07	0.384	17.06	17.70	1.159	0.445	/
	state15&19			100	Edge	0	518598	2592.99	135	69	0.05	0.377	16.95	17.70	1.189	0.448	/
	state15&19			100	Bottom	0	518598	2592.99	1	137	-0.01	1.280	17.06	17.70	1.159	1.483	/
	state15&19			100	Edge	0	518598	2592.99	135	69	0.19	1.240	16.95	17.70	1.189	1.474	/

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

### 10.24 n66 (100MHz Bandwidth)

Antenna	Power Reduction	Mode	Information	Bandwidth (MHz)	Position	Dist. (mm)	Ch.	Freq. (MHz)	VRB Length	VRB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>																	
Ant.1	state12&16&20	DFT-s-OFDM	SA	20	Left	0	349000	1745	1	53	-0.16	0.489	19.13	19.70	1.140	0.558	/
	state12&16&20	BPSK		20	Cheek	0	349000	1745	50	28	-0.04	0.476	18.87	19.70	1.211	0.576	/
	state12&16&20	BPSK		20	Left Tilt	0	349000	1745	1	53	0.08	0.573	19.13	19.70	1.140	0.653	/

	state12&16&20			20		0	349000	1745	50	28	0.05	0.562	18.87	19.70	1.211	0.680	/					
	state12&16&20			20	Right Cheek	0	349000	1745	1	53	-0.18	0.784	19.13	19.70	1.140	0.894	/					
	state12&16&20			20		0	344000	1720	1	53	0.11	0.776	18.76	19.70	1.242	0.964	/					
	state12&16&20			20		0	354000	1770	1	53	0.03	0.768	18.96	19.70	1.186	0.911	/					
	state12&16&20			20		0	349000	1745	50	28	-0.03	0.775	18.87	19.70	1.211	0.938	/					
	state12&16&20			20		0	344000	1720	50	28	-0.06	0.762	18.81	19.70	1.227	0.935	/					
	state12&16&20			20		0	354000	1770	50	28	0.01	0.766	18.81	19.70	1.227	0.940	/					
	state12&16&20			20		0	349000	1745	100	0	0.01	0.749	18.83	19.70	1.222	0.915	/					
	state12&16&20			20		Right Tilt	0	349000	1745	1	53	0.05	0.962	19.13	19.70	1.140	<b>1.097</b>	69#				
	state12&16&20			20			0	344000	1720	1	53	-0.05	0.875	18.76	19.70	1.242	1.086	/				
	state12&16&20			20			0	354000	1770	1	53	0.09	0.913	18.96	19.70	1.186	1.083	/				
	state12&16&20			20			0	349000	1745	50	28	0.11	0.903	18.87	19.70	1.211	1.093	/				
	state12&16&20			20			0	344000	1720	50	28	-0.04	0.889	18.81	19.70	1.227	1.091	/				
	state12&16&20			20			0	354000	1770	50	28	-0.19	0.878	18.81	19.70	1.227	1.078	/				
	state12&16&20			20			0	349000	1745	100	0	0.03	0.892	18.83	19.70	1.222	1.090	/				
	Ant.1			state18			DFT-s- OFDM BPSK	SA	20	Left	0	349000	1745	1	53	-0.07	0.307	16.93	17.20	1.064	0.327	/
				state18					Cheek	0	349000	1745	50	56	0.10	0.294	17.18	17.20	1.005	0.295	/	
				state18					Left Tilt	0	349000	1745	1	53	-0.04	0.354	16.93	17.20	1.064	0.377	/	
state18		Right	0	349000					1745	1	53	0.15	0.486	16.93	17.20	1.064	0.517	/				
state18		Cheek	0	349000	1745				50	56	0.03	0.469	17.18	17.20	1.005	0.471	/					
state18		Right	0	349000	1745				1	53	0.19	0.621	16.93	17.20	1.064	0.661	/					
state18		Tilt	0	344000	1720				50	56	-0.07	0.614	17.18	17.20	1.005	0.617	/					
Ant.0		state12&16&18&20	DFT-s- OFDM BPSK	SA	20				Left	0	349000	1745	1	53	0.16	0.070	23.92	24.20	1.067	0.075	/	
	state12&16&18&20	Cheek			0		349000	1745	50	28	-0.08	0.064	23.80	24.20	1.096	0.070	/					
	state12&16&18&20	Left Tilt			0		349000	1745	1	53	0.12	0.067	23.92	24.20	1.067	0.071	/					
	state12&16&18&20	Right			0		349000	1745	50	28	0.03	0.065	23.80	24.20	1.096	0.071	/					
	state12&16&18&20	Cheek			0	349000	1745	1	53	-0.01	0.086	23.92	24.20	1.067	0.092	/						
	state12&16&18&20	Right			0	349000	1745	50	28	0.03	0.084	23.80	24.20	1.096	0.092	/						
	state12&16&18&20	Right			0	349000	1745	1	53	-0.02	0.072	23.92	24.20	1.067	0.077	/						
	state12&16&18&20	Tilt			0	349000	1745	50	28	0.11	0.062	23.80	24.20	1.096	0.068	/						
Ant.0	state12&16&18&20	DFT-s- OFDM BPSK	NSA	30	Left	0	349000	1745	1	53	0.16	0.070	23.92	24.20	1.067	0.075	/					
	state12&16&18&20			Cheek	0	349000	1745	50	28	-0.08	0.064	23.80	24.20	1.096	0.070	/						
	state12&16&18&20			Left Tilt	0	349000	1745	1	53	0.12	0.067	23.92	24.20	1.067	0.071	/						
	state12&16&18&20			Right	0	349000	1745	50	28	0.03	0.065	23.80	24.20	1.096	0.071	/						
	state12&16&18&20			Cheek	0	349000	1745	1	53	-0.01	0.086	23.92	24.20	1.067	0.092	/						
	state12&16&18&20			Right	0	349000	1745	50	28	0.03	0.084	23.80	24.20	1.096	0.092	/						
	state12&16&18&20			Right	0	349000	1745	1	53	-0.02	0.072	23.92	24.20	1.067	0.077	/						
	state12&16&18&20			Tilt	0	349000	1745	50	28	0.11	0.062	23.80	24.20	1.096	0.068	/						
ANT4	state12	DFT-s- OFDM BPSK	NSA	30	Left	0	349000	1745	1	53	-0.10	0.026	22.51	23.20	1.172	0.030	/					
	state12			Cheek	0	349000	1745	50	28	0.17	0.022	22.43	23.20	1.194	0.026	/						
	state12			Left Tilt	0	349000	1745	1	53	0.09	0.011	22.51	23.20	1.172	0.013	/						
	state12			Right	0	349000	1745	50	28	0.01	0.008	22.43	23.20	1.194	0.010	/						
	state12			Right	0	349000	1745	1	53	0.17	0.026	22.51	23.20	1.172	0.030	/						
	state12			Cheek	0	349000	1745	50	28	-0.17	0.022	22.43	23.20	1.194	0.026	/						



	state12			30	Right	0	349000	1745	1	53	-0.19	0.012	22.51	23.20	1.172	0.014	/	
	state12			30	Tilt	0	349000	1745	50	28	0.00	0.010	22.43	23.20	1.194	0.012	/	
ANT4	state16&20	DFT-s-OFDM BPSK	NSA	30	Left	0	349000	1745	1	1	-0.10	0.021	21.74	22.20	1.112	0.023	/	
	state16&20			30	Cheek	0	349000	1745	50	0	-0.13	0.018	21.75	22.20	1.109	0.020	/	
	state16&20			30	Left Tilt	0	349000	1745	1	1	0.18	0.008	21.74	22.20	1.112	0.009	/	
	state16&20			30		0	349000	1745	50	0	-0.18	0.006	21.75	22.20	1.109	0.007	/	
	state16&20			30	Right	0	349000	1745	1	1	0.02	0.020	21.74	22.20	1.112	0.022	/	
	state16&20			30	Cheek	0	349000	1745	50	0	-0.06	0.018	21.75	22.20	1.109	0.020	/	
	state16&20			30	Right	0	349000	1745	1	1	-0.15	0.009	21.74	22.20	1.112	0.010	/	
	state16&20			30	Tilt	0	349000	1745	50	0	0.09	0.008	21.75	22.20	1.109	0.009	/	
ANT4	state18	DFT-s-OFDM BPSK	NSA	20	Left	0	349000	1745	1	1	-0.18	0.018	21.06	21.20	1.033	0.019	/	
	state18			20	Cheek	0	349000	1745	50	0	-0.19	0.015	21.06	21.20	1.033	0.015	/	
	state18			20	Left Tilt	0	349000	1745	1	1	0.12	0.007	21.06	21.20	1.033	0.007	/	
	state18			20		0	349000	1745	50	0	0.18	0.005	21.06	21.20	1.033	0.005	/	
	state18			20	Right	0	349000	1745	1	1	-0.12	0.018	21.06	21.20	1.033	0.019	/	
	state18			20	Cheek	0	349000	1745	50	0	-0.02	0.015	21.06	21.20	1.033	0.015	/	
	state18			20	Right	0	349000	1745	1	1	-0.13	0.008	21.06	21.20	1.033	0.008	/	
	state18			20	Tilt	0	349000	1745	50	0	-0.05	0.007	21.06	21.20	1.033	0.007	/	
<b>Body-worn</b>																		
Ant.1	state11	DFT-s-OFDM BPSK	SA	20	Front	15	349000	1745	1	53	-0.14	0.166	23.01	23.20	1.045	0.173	/	
	state11			20	Side	15	349000	1745	50	56	0.19	0.162	23.19	23.20	1.002	0.162	/	
	state11			20	Back	15	344000	1720	1	53	-0.10	0.184	23.01	23.20	1.045	0.192	/	
	state11			20	Side	15	349000	1745	50	56	-0.15	0.179	23.19	23.20	1.002	0.179	/	
Ant.0	state11	DFT-s-OFDM BPSK	SA	20	Front	15	349000	1745	1	53	-0.12	0.143	22.99	23.20	1.050	0.150	/	
	state11			20	Side	15	349000	1745	50	28	0.07	0.141	22.69	23.20	1.125	0.159	/	
	state11			20	Back	15	349000	1745	1	53	0.19	0.207	22.99	23.20	1.050	<b>0.217</b>	70#	
	state11			20	Side	15	349000	1745	50	28	0.01	0.192	22.69	23.20	1.125	0.216	/	
Ant.0	state11	DFT-s-OFDM BPSK	NSA	30	Front	15	349000	1745	1	53	0.03	0.064	19.50	20.20	1.175	0.075	/	
	state11			30	Side	15	349000	1745	50	28	-0.11	0.063	19.48	20.20	1.180	0.074	/	
	state11			30	Back	15	349000	1745	1	53	0.03	0.097	19.50	20.20	1.175	0.114	/	
	state11			30	Side	15	349000	1745	50	28	-0.13	0.085	19.48	20.20	1.180	0.100	/	
ANT4	state11	DFT-s-OFDM BPSK	NSA	30	Front	15	349000	1745	1	53	-0.06	0.020	22.51	24.20	1.476	0.030	/	
	state11			30	Side	15	349000	1745	50	28	0.00	0.018	22.43	24.20	1.503	0.027	/	
	state11			30	Back	15	349000	1745	1	53	0.16	0.066	22.51	24.20	1.476	0.097	/	
	state11			30	Side	15	349000	1745	50	28	0.15	0.063	22.43	24.20	1.503	0.095	/	
<b>Hotspot</b>																		
Ant.1	state15&19	DFT-s-OFDM BPSK	SA	20	Front	10	349000	1745	1	53	0.10	0.306	22.06	22.20	1.033	0.316	/	
	state15&19			20	Side	10	349000	1745	50	28	-0.13	0.294	22.19	22.20	1.002	0.295	/	
	state15&19			20	Back	10	349000	1745	1	53	0.12	0.335	22.06	22.20	1.033	0.346	/	
	state15&19			20	Side	10	349000	1745	50	28	-0.09	0.329	22.19	22.20	1.002	0.330	/	
	state15&19			20	Right	10	349000	1745	1	53	0.02	0.084	22.06	22.20	1.033	0.087	/	
	state15&19			20	Edge	10	349000	1745	50	28	-0.08	0.082	22.19	22.20	1.002	0.082	/	
	state15&19			20	Top	10	349000	1745	1	53	-0.12	0.517	22.06	22.20	1.033	0.534	/	
	state15&19			20	Edge	10	344000	1720	1	53	-0.13	0.472	22.19	22.20	1.002	0.473	/	
Ant.1	state17		SA	20		10	349000	1745	1	53	0.00	0.078	16.01	16.20	1.045	0.081	/	

	state17	DFT-s-OFDM BPSK		20	Front Side	10	349000	1745	50	56	-0.19	0.076	16.15	16.20	1.012	0.077	/
	state17			20	Back	10	349000	1745	1	53	0.18	0.085	16.01	16.20	1.045	0.089	/
	state17			20	Side	10	349000	1745	50	56	0.06	0.083	16.15	16.20	1.012	0.084	/
	state17			20	Right	10	349000	1745	1	53	0.07	0.022	16.01	16.20	1.045	0.023	/
	state17			20	Edge	10	349000	1745	50	56	-0.02	0.021	16.15	16.20	1.012	0.021	/
	state17			20	Bottom	10	349000	1745	1	53	-0.04	0.126	16.01	16.20	1.045	0.132	/
	state17			20	Edge	10	349000	1745	50	56	-0.15	0.121	16.15	16.20	1.012	0.122	/
Ant.0	state15&19	DFT-s-OFDM BPSK	SA	20	Front	10	349000	1745	1	53	0.07	0.252	20.36	20.70	1.081	0.273	/
	state15&19			20	Side	10	349000	1745	50	28	0.10	0.249	20.08	20.70	1.153	0.287	/
	state15&19			20	Back	10	349000	1745	1	53	-0.15	0.334	20.36	20.70	1.081	0.361	/
	state15&19			20	Side	10	349000	1745	50	28	0.02	0.328	20.08	20.70	1.153	0.378	/
	state15&19			20	Left	10	349000	1745	1	53	-0.15	0.073	20.36	20.70	1.081	0.079	/
	state15&19			20	Edge	10	349000	1745	50	28	0.10	0.070	20.08	20.70	1.153	0.081	/
	state15&19			20	Right	10	349000	1745	1	53	0.19	0.049	20.36	20.70	1.081	0.053	/
	state15&19			20	Edge	10	349000	1745	50	28	-0.04	0.045	20.08	20.70	1.153	0.052	/
	state15&19			20	Bottom	10	349000	1745	1	53	0.05	0.609	20.36	20.70	1.081	<b>0.659</b>	71#
	state15&19			20	Edge	10	349000	1745	50	28	0.19	0.570	20.08	20.70	1.153	0.657	/
Ant.0	state17	DFT-s-OFDM BPSK	SA	30	Front	10	349000	1745	1	104	0.10	0.200	19.50	19.70	1.047	0.209	/
	state17			30	Side	10	349000	1745	50	28	-0.03	0.190	19.48	19.70	1.052	0.200	/
	state17			30	Back	10	349000	1745	1	104	0.13	0.268	19.50	19.70	1.047	0.281	/
	state17			30	Side	10	349000	1745	50	28	-0.04	0.265	19.48	19.70	1.052	0.279	/
	state17			30	Left	10	349000	1745	1	104	-0.03	0.056	19.50	19.70	1.047	0.059	/
	state17			30	Edge	10	349000	1745	50	28	0.03	0.054	19.48	19.70	1.052	0.057	/
	state17			30	Right	10	349000	1745	1	104	0.14	0.040	19.50	19.70	1.047	0.042	/
	state17			30	Edge	10	349000	1745	50	28	-0.13	0.036	19.48	19.70	1.052	0.038	/
	state17			30	Bottom	10	349000	1745	1	104	0.12	0.500	19.50	19.70	1.047	0.524	/
	state17			30	Edge	10	349000	1745	50	28	0.09	0.442	19.48	19.70	1.052	0.465	/
Ant.0	state15&19	DFT-s-OFDM BPSK	NSA	30	Front	10	349000	1745	1	53	0.12	0.138	17.94	18.20	1.062	0.147	/
	state15&19			30	Side	10	349000	1745	50	28	-0.12	0.136	17.92	18.20	1.067	0.145	/
	state15&19			30	Back	10	349000	1745	1	53	0.10	0.192	17.94	18.20	1.062	0.204	/
	state15&19			30	Side	10	349000	1745	50	28	-0.14	0.180	17.92	18.20	1.067	0.192	/
	state15&19			30	Left	10	349000	1745	1	53	0.07	0.039	17.94	18.20	1.062	0.041	/
	state15&19			30	Edge	10	349000	1745	50	28	0.18	0.034	17.92	18.20	1.067	0.036	/
	state15&19			30	Right	10	349000	1745	1	53	-0.17	0.027	17.94	18.20	1.062	0.029	/
	state15&19			30	Edge	10	349000	1745	50	28	-0.19	0.025	17.92	18.20	1.067	0.027	/
	state15&19			30	Bottom	10	349000	1745	1	53	-0.04	0.360	17.94	18.20	1.062	0.382	/
	state15&19			30	Edge	10	349000	1745	50	28	0.06	0.342	17.92	18.20	1.067	0.365	/
Ant.0	state17	DFT-s-OFDM BPSK	NSA	30	Front	10	349000	1745	1	104	-0.14	0.097	16.40	16.70	1.072	0.104	/
	state17			30	Side	10	349000	1745	50	56	0.06	0.092	16.36	16.70	1.081	0.099	/
	state17			30	Back	10	349000	1745	1	104	-0.14	0.137	16.40	16.70	1.072	0.147	/
	state17			30	Side	10	349000	1745	50	56	0.00	0.127	16.36	16.70	1.081	0.137	/
	state17			30	Left	10	349000	1745	1	104	-0.06	0.028	16.40	16.70	1.072	0.030	/
	state17			30	Edge	10	349000	1745	50	56	0.18	0.025	16.36	16.70	1.081	0.027	/
	state17			30		10	349000	1745	1	104	-0.01	0.019	16.40	16.70	1.072	0.020	/

	state17			30	Right Edge	10	349000	1745	50	56	-0.03	0.017	16.36	16.70	1.081	0.018	/
	state17			30	Bottom	10	349000	1745	1	104	-0.06	0.257	16.40	16.70	1.072	0.275	/
	state17			30	Edge	10	349000	1745	50	56	-0.01	0.237	16.36	16.70	1.081	0.256	/
ANT4	state15&17&19	DFT-s-OFDM BPSK	NSA	30	Front	10	349000	1745	1	53	0.15	0.040	22.51	24.20	1.476	0.059	/
	state15&17&19			30	Side	10	349000	1745	50	28	-0.09	0.045	22.43	24.20	1.503	0.068	/
	state15&17&19			30	Back	10	349000	1745	1	53	0.01	0.217	22.51	24.20	1.476	0.320	/
	state15&17&19			30	Side	10	349000	1745	50	28	0.06	0.209	22.43	24.20	1.503	0.314	/
	state15&17&19			30	Right	10	349000	1745	1	53	0.04	0.118	22.51	24.20	1.476	0.174	/
	state15&17&19			30	Edge	10	349000	1745	50	28	-0.06	0.127	22.43	24.20	1.503	0.191	/
	state15&17&19			30	Top	10	349000	1745	1	53	0.02	0.013	22.51	24.20	1.476	0.019	/
	state15&17&19			30	Edge	10	349000	1745	50	28	0.08	0.016	22.43	24.20	1.503	0.024	/

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

Antenna	Power Reduction	Mode	Information	Bandwidth (MHz)	Position	Dist. (mm)	Ch.	Freq. (MHz)	VRB Length	VRB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
<b>Specific</b>																	
Ant.0	state15&19	DFT-s-OFDM BPSK	SA	20	Front	10	349000	1745	1	53	-0.17	0.786	20.36	20.70	1.081	0.850	/
	state15&19			20	Side	10	349000	1745	50	28	-0.14	0.779	20.08	20.70	1.153	0.899	/
	state15&19			20	Back	10	349000	1745	1	53	-0.17	1.150	20.36	20.70	1.081	1.244	/
	state15&19			20	Side	10	349000	1745	50	28	0.04	1.120	20.08	20.70	1.153	1.292	/
	state15&19			20	Left	10	349000	1745	1	53	-0.18	0.149	20.36	20.70	1.081	0.161	/
	state15&19			20	Edge	10	349000	1745	50	28	0.11	0.143	20.08	20.70	1.153	0.165	/
	state15&19			20	Right	10	349000	1745	1	53	-0.06	0.083	20.36	20.70	1.081	0.090	/
	state15&19			20	Edge	10	349000	1745	50	28	-0.13	0.080	20.08	20.70	1.153	0.092	/
	state15&19			20	Bottom	10	349000	1745	1	53	-0.17	1.330	20.36	20.70	1.081	1.438	/
	state15&19			20	Edge	10	349000	1745	50	28	-0.19	1.300	20.08	20.70	1.153	<b>1.499</b>	<b>72#</b>
Ant.0	state17	DFT-s-OFDM BPSK	SA	20	Front	10	349000	1745	1	104	-0.07	0.616	19.50	19.70	1.047	0.645	/
	state17			20	Side	10	349000	1745	50	28	0.02	0.594	19.48	19.70	1.052	0.625	/
	state17			20	Back	10	349000	1745	1	104	0.04	0.914	19.50	19.70	1.047	0.957	/
	state17			20	Side	10	349000	1745	50	28	0.16	0.895	19.48	19.70	1.052	0.942	/
	state17			20	Left	10	349000	1745	1	104	-0.11	0.121	19.50	19.70	1.047	0.127	/
	state17			20	Edge	10	349000	1745	50	28	-0.01	0.118	19.48	19.70	1.052	0.124	/
	state17			20	Right	10	349000	1745	1	104	0.10	0.066	19.50	19.70	1.047	0.069	/
	state17			20	Edge	10	349000	1745	50	28	0.09	0.064	19.48	19.70	1.052	0.067	/
	state17			20	Bottom	10	349000	1745	1	104	0.14	1.020	19.50	19.70	1.047	1.068	/
	state17			20	Edge	10	349000	1745	50	28	-0.01	1.010	19.48	19.70	1.052	1.062	/
Ant.0	state15&19	DFT-s-OFDM BPSK	NSA	30	Front	10	349000	1745	1	53	0.13	0.436	17.94	18.20	1.062	0.463	/
	state15&19			30	Side	10	349000	1745	50	28	-0.12	0.410	17.92	18.20	1.067	0.437	/
	state15&19			30	Back	10	349000	1745	1	53	0.04	0.669	17.94	18.20	1.062	0.710	/
	state15&19			30	Side	10	349000	1745	50	28	0.03	0.602	17.92	18.20	1.067	0.642	/
	state15&19			30	Left	10	349000	1745	1	53	-0.10	0.087	17.94	18.20	1.062	0.092	/
	state15&19			30	Edge	10	349000	1745	50	28	0.18	0.081	17.92	18.20	1.067	0.086	/

	state15&19			30	Right	10	349000	1745	1	53	0.19	0.046	17.94	18.20	1.062	0.049	/
	state15&19			30	Edge	10	349000	1745	50	28	-0.14	0.043	17.92	18.20	1.067	0.046	/
	state15&19			30	Bottom	10	349000	1745	1	53	-0.05	0.708	17.94	18.20	1.062	0.752	/
	state15&19			30	Edge	10	349000	1745	50	28	-0.17	0.680	17.92	18.20	1.067	0.725	/
Ant.0	state17	DFT-s- OFDM BPSK	NSA	30	Front	10	349000	1745	1	104	0.02	0.300	16.40	16.70	1.072	0.321	/
	state17			30	Side	10	349000	1745	50	56	0.16	0.291	16.36	16.70	1.081	0.315	/
	state17			30	Back	10	349000	1745	1	104	-0.09	0.486	16.40	16.70	1.072	0.521	/
	state17			30	Side	10	349000	1745	50	56	-0.16	0.477	16.36	16.70	1.081	0.516	/
	state17			30	Left	10	349000	1745	1	104	0.00	0.063	16.40	16.70	1.072	0.068	/
	state17			30	Edge	10	349000	1745	50	56	-0.04	0.060	16.36	16.70	1.081	0.065	/
	state17			30	Right	10	349000	1745	1	104	0.12	0.032	16.40	16.70	1.072	0.034	/
	state17			30	Edge	10	349000	1745	50	56	0.17	0.031	16.36	16.70	1.081	0.034	/
	state17			30	Bottom	10	349000	1745	1	104	0.01	0.482	16.40	16.70	1.072	0.516	/
	state17			30	Edge	10	349000	1745	50	56	-0.06	0.473	16.36	16.70	1.081	0.512	/

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

## 10.25 WIFI 2.4GHz

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.7	Level1	802.11 b	Left Cheek	0	11	2462	0.08	0.924	16.98	17.00	1.005	99.20	1.008	0.936	/
	Level1			0	1	2412	0.05	0.978	16.44	17.00	1.138	99.20	1.008	<b>1.122</b>	73#
	Level1			0	6	2437	0.02	0.877	16.92	17.00	1.019	99.20	1.008	0.901	/
	Level1		Left Tilt	0	11	2462	-0.14	0.580	16.98	17.00	1.005	99.20	1.008	0.587	/
	Level1		Right Cheek	0	11	2462	0.04	0.355	16.98	17.00	1.005	99.20	1.008	0.360	/
	Level1		Right Tilt	0	11	2462	0.01	0.387	16.98	17.00	1.005	99.20	1.008	0.392	/
Ant.7	Level2&4	802.11 b	Left Cheek	0	6	2437	-0.13	0.235	10.83	11.00	1.040	99.20	1.008	0.246	/
	Level2&4		Left Tilt	0	6	2437	-0.12	0.149	10.83	11.00	1.040	99.20	1.008	0.156	/
	Level2&4		Right Cheek	0	6	2437	-0.19	0.087	10.83	11.00	1.040	99.20	1.008	0.091	/
	Level2&4		Right Tilt	0	6	2437	-0.13	0.099	10.83	11.00	1.040	99.20	1.008	0.104	/
Ant.7	Level3	802.11 b	Left Cheek	0	11	2462	0.13	0.286	11.86	12.00	1.033	99.20	1.008	0.298	/
	Level3		Left Tilt	0	11	2462	-0.06	0.174	11.86	12.00	1.033	99.20	1.008	0.181	/
	Level3		Right Cheek	0	11	2462	-0.19	0.114	11.86	12.00	1.033	99.20	1.008	0.119	/
	Level3		Right Tilt	0	11	2462	0.02	0.118	11.86	12.00	1.033	99.20	1.008	0.123	/
Body-worn															
Ant.7	Level5	802.11 b	Front Side	15	6	2437	0.04	0.078	19.86	20.00	1.033	99.20	1.008	0.081	/
	Level5		Back Side	15	6	2437	-0.17	0.084	19.86	20.00	1.033	99.20	1.008	<b>0.087</b>	74#
Hotspot															
Ant.7	Level5	802.11 b	Front Side	10	6	2437	0.17	0.138	19.86	20.00	1.033	99.20	1.008	0.143	/
	Level5		Back Side	10	6	2437	-0.01	0.338	19.86	20.00	1.033	99.20	1.008	<b>0.352</b>	75#
	Level5		Left Edge	10	6	2437	0.02	0.138	19.86	20.00	1.033	99.20	1.008	0.144	/
	Level5		Top Edge	10	6	2437	0.17	0.178	19.86	20.00	1.033	99.20	1.008	0.185	/
Ant.7	Level6	802.11 b	Front Side	10	6	2437	-0.15	0.083	17.81	18.00	1.045	99.20	1.008	0.087	/
	Level6		Back Side	10	6	2437	-0.19	0.220	17.81	18.00	1.045	99.20	1.008	0.232	/
	Level6		Left Edge	10	6	2437	0.00	0.088	17.81	18.00	1.045	99.20	1.008	0.093	/
	Level6		Top Edge	10	6	2437	-0.12	0.113	17.81	18.00	1.045	99.20	1.008	0.119	/
Ant.7	Level7	802.11 b	Front Side	10	11	2462	0.18	0.063	16.98	17.00	1.005	99.20	1.008	0.064	/
	Level7		Back Side	10	11	2462	0.03	0.181	16.98	17.00	1.005	99.20	1.008	0.183	/
	Level7		Left Edge	10	11	2462	0.05	0.069	16.98	17.00	1.005	99.20	1.008	0.070	/
	Level7		Top Edge	10	11	2462	-0.14	0.090	16.98	17.00	1.005	99.20	1.008	0.091	/
Ant.7	Level8	802.11 b	Front Side	10	6	2437	-0.18	0.048	15.75	16.00	1.059	99.20	1.008	0.051	/
	Level8		Back Side	10	6	2437	-0.01	0.147	15.75	16.00	1.059	99.20	1.008	0.157	/
	Level8		Left Edge	10	6	2437	0.02	0.056	15.75	16.00	1.059	99.20	1.008	0.060	/
	Level8		Top Edge	10	6	2437	-0.15	0.070	15.75	16.00	1.059	99.20	1.008	0.075	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

**10.26 WIFI 5GHz**

Antenna	Power Reduction	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	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>															
Ant.7	Level1	802.11ac (VHT80)	Left Cheek	0	58	5290	0.13	0.611	12.96	13.50	1.132	93.33	1.071	<b>0.741</b>	76#
	Level1		Left Tilt	0	58	5290	-0.06	0.475	12.96	13.50	1.132	93.33	1.071	0.576	/
	Level1		Right Cheek	0	58	5290	-0.16	0.192	12.96	13.50	1.132	93.33	1.071	0.233	/
	Level1		Right Tilt	0	58	5290	-0.09	0.212	12.96	13.50	1.132	93.33	1.071	0.257	/
Ant.7	Level2	802.11ac (VHT80)	Left Cheek	0	58	5290	-0.18	0.331	10.36	10.50	1.033	93.33	1.071	0.366	/
	Level2		Left Tilt	0	58	5290	-0.03	0.274	10.36	10.50	1.033	93.33	1.071	0.303	/
	Level2		Right Cheek	0	58	5290	-0.08	0.106	10.36	10.50	1.033	93.33	1.071	0.117	/
	Level2		Right Tilt	0	58	5290	0.16	0.119	10.36	10.50	1.033	93.33	1.071	0.132	/
Ant.7	Level3&4	802.11ac (VHT80)	Left Cheek	0	58	5290	-0.01	0.376	11.03	11.50	1.114	93.33	1.071	0.449	/
	Level3&4		Left Tilt	0	58	5290	-0.03	0.285	11.03	11.50	1.114	93.33	1.071	0.340	/
	Level3&4		Right Cheek	0	58	5290	0.16	0.121	11.03	11.50	1.114	93.33	1.071	0.144	/
	Level3&4		Right Tilt	0	58	5290	0.12	0.132	11.03	11.50	1.114	93.33	1.071	0.158	/
Ant.7	Level1	802.11ac (VHT80)	Left Cheek	0	138	5690	0.05	0.598	13.40	13.50	1.023	93.33	1.071	<b>0.656</b>	77#
	Level1		Left Tilt	0	138	5690	-0.05	0.489	13.40	13.50	1.023	93.33	1.071	0.536	/
	Level1		Right Cheek	0	138	5690	0.02	0.218	13.40	13.50	1.023	93.33	1.071	0.239	/
	Level1		Right Tilt	0	138	5690	-0.18	0.274	13.40	13.50	1.023	93.33	1.071	0.300	/
Ant.7	Level2	802.11ac (VHT80)	Left Cheek	0	138	5690	0.11	0.295	10.27	10.50	1.054	93.33	1.071	0.333	/
	Level2		Left Tilt	0	138	5690	0.07	0.238	10.27	10.50	1.054	93.33	1.071	0.269	/
	Level2		Right Cheek	0	138	5690	0.18	0.112	10.27	10.50	1.054	93.33	1.071	0.127	/
	Level2		Right Tilt	0	138	5690	-0.14	0.141	10.27	10.50	1.054	93.33	1.071	0.159	/
Ant.7	Level3&4	802.11ac (VHT80)	Left Cheek	0	138	5690	-0.04	0.229	9.38	9.50	1.028	93.33	1.071	0.252	/
	Level3&4		Left Tilt	0	138	5690	-0.03	0.193	9.38	9.50	1.028	93.33	1.071	0.213	/
	Level3&4		Right Cheek	0	138	5690	-0.09	0.086	9.38	9.50	1.028	93.33	1.071	0.095	/
	Level3&4		Right Tilt	0	138	5690	-0.05	0.109	9.38	9.50	1.028	93.33	1.071	0.120	/
Ant.7	Level1	5.8G 802.11ac80	Left Cheek	0	155	5775	0.01	1.090	13.42	13.50	1.019	93.33	1.071	<b>1.190</b>	78#
	Level1		Left Tilt	0	155	5775	-0.05	1.020	13.42	13.50	1.019	93.33	1.071	1.113	/
	Level1		Right Cheek	0	155	5775	0.14	0.579	13.42	13.50	1.019	93.33	1.071	0.632	/
	Level1		Right Tilt	0	155	5775	-0.16	0.664	13.42	13.50	1.019	93.33	1.071	0.725	/
Ant.7	Level2	5.8G 802.11ac80	Left Cheek	0	155	5775	0.08	0.523	10.36	10.50	1.033	93.33	1.071	0.579	/
	Level2		Left Tilt	0	155	5775	-0.19	0.469	10.36	10.50	1.033	93.33	1.071	0.519	/
	Level2		Right Cheek	0	155	5775	0.02	0.281	10.36	10.50	1.033	93.33	1.071	0.311	/
	Level2		Right Tilt	0	155	5775	-0.07	0.311	10.36	10.50	1.033	93.33	1.071	0.344	/
Ant.7	Level3&4	5.8G 802.11ac80	Left Cheek	0	155	5775	-0.03	0.412	9.26	9.50	1.057	93.33	1.071	0.467	/
	Level3&4		Left Tilt	0	155	5775	0.07	0.375	9.26	9.50	1.057	93.33	1.071	0.425	/
	Level3&4		Right Cheek	0	155	5775	-0.09	0.210	9.26	9.50	1.057	93.33	1.071	0.238	/
	Level3&4		Right Tilt	0	155	5775	0.18	0.238	9.26	9.50	1.057	93.33	1.071	0.269	/
<b>Body-worn</b>															
Ant.7	Level5	802.11ac (VHT80)	Front Side	15	58	5290	0.00	0.064	18.64	19.00	1.086	93.33	1.071	0.075	/
	Level5		Back Side	15	58	5290	-0.02	0.218	18.64	19.00	1.086	93.33	1.071	<b>0.254</b>	79#

Ant.7	Level5	802.11ac	Front Side	15	138	5690	-0.01	0.249	18.84	19.00	1.038	93.33	1.071	0.277	/
	Level5	(VHT80)	Back Side	15	138	5690	-0.13	0.407	18.84	19.00	1.038	93.33	1.071	<b>0.452</b>	80#
Ant.7	Level5	802.11ac	Front Side	15	155	5775	0.04	0.082	18.73	19.00	1.064	93.33	1.071	0.093	/
	Level5	(VHT80)	Back Side	15	155	5775	-0.07	0.225	18.73	19.00	1.064	93.33	1.071	<b>0.257</b>	81#
<b>Hotspot</b>															
Ant.7	Level5	802.11ac (VHT80)	Front Side	10	42	5210	-0.03	0.100	18.27	19.00	1.183	93.33	1.071	0.127	/
	Level5		Back Side	10	42	5210	0.01	0.209	18.27	19.00	1.183	93.33	1.071	0.265	/
	Level5		Left Edge	10	42	5210	0.06	0.248	18.27	19.00	1.183	93.33	1.071	<b>0.314</b>	82#
	Level5		Top Edge	10	42	5210	0.06	0.222	18.27	19.00	1.183	93.33	1.071	0.281	/
Ant.7	Level6	802.11ac (VHT80)	Front Side	10	42	5210	-0.15	0.065	16.25	16.50	1.059	93.33	1.071	0.074	/
	Level6		Back Side	10	42	5210	-0.07	0.125	16.25	16.50	1.059	93.33	1.071	0.142	/
	Level6		Left Edge	10	42	5210	-0.17	0.157	16.25	16.50	1.059	93.33	1.071	0.178	/
	Level6		Top Edge	10	42	5210	0.08	0.134	16.25	16.50	1.059	93.33	1.071	0.152	/
Ant.7	Level7	802.11ac (VHT80)	Front Side	10	42	5210	0.12	0.051	15.20	15.50	1.072	93.33	1.071	0.059	/
	Level7		Back Side	10	42	5210	0.15	0.101	15.20	15.50	1.072	93.33	1.071	0.116	/
	Level7		Left Edge	10	42	5210	0.05	0.129	15.20	15.50	1.072	93.33	1.071	0.148	/
	Level7		Top Edge	10	42	5210	-0.12	0.110	15.20	15.50	1.072	93.33	1.071	0.126	/
Ant.7	Level8	802.11ac (VHT80)	Front Side	10	42	5210	-0.08	0.040	14.17	14.50	1.079	93.33	1.071	0.046	/
	Level8		Back Side	10	42	5210	0.12	0.081	14.17	14.50	1.079	93.33	1.071	0.094	/
	Level8		Left Edge	10	42	5210	0.01	0.105	14.17	14.50	1.079	93.33	1.071	0.121	/
	Level8		Top Edge	10	42	5210	-0.02	0.086	14.17	14.50	1.079	93.33	1.071	0.099	/
Ant.7	Level5	802.11ac (VHT80)	Front Side	10	155	5775	0.14	0.309	16.73	17.00	1.064	93.33	1.071	0.352	/
	Level5		Back Side	10	155	5775	0.17	0.420	16.73	17.00	1.064	93.33	1.071	0.479	/
	Level5		Left Edge	10	155	5775	-0.08	0.380	16.73	17.00	1.064	93.33	1.071	0.433	/
	Level5		Top Edge	10	155	5775	0.00	0.644	16.73	17.00	1.064	93.33	1.071	<b>0.734</b>	83#
Ant.7	Level6	802.11ac (VHT80)	Front Side	10	155	5775	0.16	0.237	15.43	15.50	1.016	93.33	1.071	0.258	/
	Level6		Back Side	10	155	5775	0.16	0.315	15.43	15.50	1.016	93.33	1.071	0.343	/
	Level6		Left Edge	10	155	5775	0.04	0.280	15.43	15.50	1.016	93.33	1.071	0.305	/
	Level6		Top Edge	10	155	5775	0.09	0.475	15.43	15.50	1.016	93.33	1.071	0.517	/
Ant.7	Level7	802.11ac (VHT80)	Front Side	10	155	5775	0.05	0.088	11.31	11.50	1.045	93.33	1.071	0.099	/
	Level7		Back Side	10	155	5775	0.07	0.133	11.31	11.50	1.045	93.33	1.071	0.149	/
	Level7		Left Edge	10	155	5775	-0.16	0.114	11.31	11.50	1.045	93.33	1.071	0.128	/
	Level7		Top Edge	10	155	5775	0.07	0.193	11.31	11.50	1.045	93.33	1.071	0.216	/
Ant.7	Level8	802.11ac (VHT80)	Front Side	10	155	5775	-0.17	0.064	9.73	10.00	1.064	93.33	1.071	0.073	/
	Level8		Back Side	10	155	5775	0.14	0.097	9.73	10.00	1.064	93.33	1.071	0.111	/
	Level8		Left Edge	10	155	5775	0.01	0.079	9.73	10.00	1.064	93.33	1.071	0.090	/
	Level8		Top Edge	10	155	5775	-0.05	0.137	9.73	10.00	1.064	93.33	1.071	0.156	/

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

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	10g Scaled SAR (W/kg)	Meas. No.
<b>Specific</b>															
Ant.7	Level5		Front Side	0	58	5290	-0.18	0.320	18.64	19.00	1.086	93.33	1.071	0.373	/

	Level5	802.11ac (VHT80)	Back Side	0	58	5290	0.05	0.272	18.64	19.00	1.086	93.33	1.071	0.317	/
	Level5		Left Edge	0	58	5290	0.13	0.509	18.64	19.00	1.086	93.33	1.071	0.593	84#
	Level5		Top Edge	0	58	5290	0.02	0.354	18.64	19.00	1.086	93.33	1.071	0.412	/
Ant.7	Level6	802.11ac (VHT80)	Front Side	0	58	5290	-0.14	0.232	16.22	16.50	1.067	93.33	1.071	0.265	/
	Level6		Back Side	0	58	5290	-0.12	0.183	16.22	16.50	1.067	93.33	1.071	0.209	/
	Level6		Left Edge	0	58	5290	-0.01	0.351	16.22	16.50	1.067	93.33	1.071	0.401	/
	Level6		Top Edge	0	58	5290	0.00	0.242	16.22	16.50	1.067	93.33	1.071	0.277	/
Ant.7	Level7	802.11ac (VHT80)	Front Side	0	58	5290	0.03	0.182	15.14	15.50	1.086	93.33	1.071	0.212	/
	Level7		Back Side	0	58	5290	0.09	0.149	15.14	15.50	1.086	93.33	1.071	0.173	/
	Level7		Left Edge	0	58	5290	-0.03	0.281	15.14	15.50	1.086	93.33	1.071	0.327	/
	Level7		Top Edge	0	58	5290	-0.11	0.195	15.14	15.50	1.086	93.33	1.071	0.227	/
Ant.7	Level8	802.11ac (VHT80)	Front Side	0	58	5290	-0.17	0.143	14.13	14.50	1.089	93.33	1.071	0.167	/
	Level8		Back Side	0	58	5290	0.04	0.113	14.13	14.50	1.089	93.33	1.071	0.132	/
	Level8		Left Edge	0	58	5290	0.03	0.216	14.13	14.50	1.089	93.33	1.071	0.252	/
	Level8		Top Edge	0	58	5290	-0.14	0.151	14.13	14.50	1.089	93.33	1.071	0.176	/
Ant.7	Level5	802.11ac (VHT80)	Front Side	0	138	5690	-0.12	0.802	18.84	19.00	1.038	93.33	1.071	0.892	/
	Level5		Back Side	0	138	5690	-0.08	0.359	18.84	19.00	1.038	93.33	1.071	0.399	/
	Level5		Left Edge	0	138	5690	0.03	1.120	18.84	19.00	1.038	93.33	1.071	1.245	85#
	Level5		Top Edge	0	138	5690	-0.11	0.826	18.84	19.00	1.038	93.33	1.071	0.918	/
Ant.7	Level6	802.11ac (VHT80)	Front Side	0	138	5690	0.01	0.435	16.32	16.50	1.042	93.33	1.071	0.486	/
	Level6		Back Side	0	138	5690	0.01	0.199	16.32	16.50	1.042	93.33	1.071	0.222	/
	Level6		Left Edge	0	138	5690	0.14	0.622	16.32	16.50	1.042	93.33	1.071	0.695	/
	Level6		Top Edge	0	138	5690	0.02	0.443	16.32	16.50	1.042	93.33	1.071	0.495	/
Ant.7	Level7&8	802.11ac (VHT80)	Front Side	0	138	5690	0.11	0.134	11.29	11.50	1.050	93.33	1.071	0.151	/
	Level7&8		Back Side	0	138	5690	0.03	0.062	11.29	11.50	1.050	93.33	1.071	0.070	/
	Level7&8		Left Edge	0	138	5690	0.06	0.193	11.29	11.50	1.050	93.33	1.071	0.217	/
	Level7&8		Top Edge	0	138	5690	-0.01	0.139	11.29	11.50	1.050	93.33	1.071	0.156	/

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



## 10.27 Bluetooth

Antenna	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	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>														
Ant.7	DH5	Left Cheek	0	39	2441	0.00	0.289	13.47	14.00	1.130	76.88	1.301	<b>0.424</b>	86#
		Left Tilt	0	39	2441	-0.06	0.226	13.47	14.00	1.130	76.88	1.301	0.332	/
		Right Cheek	0	39	2441	0.11	0.147	13.47	14.00	1.130	76.88	1.301	0.216	/
		Right Tilt	0	39	2441	0.04	0.139	13.47	14.00	1.130	76.88	1.301	0.204	/
<b>Body</b>														
Ant.7	DH5	Front Side	15	39	2441	0.11	0.012	13.47	14.00	1.130	76.88	1.301	0.018	/
		Back Side	15	39	2441	0.07	0.019	13.47	14.00	1.130	76.88	1.301	<b>0.028</b>	87#
<b>Hotspot</b>														
Ant.7	DH5	Front Side	10	39	2441	0.03	0.050	13.47	14.00	1.130	76.88	1.301	0.073	/
		Back Side	10	39	2441	0.09	0.074	13.47	14.00	1.130	76.88	1.301	<b>0.108</b>	88#
		Left Edge	10	39	2441	0.12	0.045	13.47	14.00	1.130	76.88	1.301	0.066	/
		Top Edge	10	39	2441	-0.13	0.050	13.47	14.00	1.130	76.88	1.301	0.073	/

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

### 10.28 Worst Case of GSM 1900

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Worse case</b>													
GSM1900 Ant.1	state15&19	GPRS 4slots	Top Edge	10	810	1909.8	-0.190	0.736	24.98	25.00	1.005	0.739	1#
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

### 10.29 Worst Case of n41

Antenna	Power Reduction	Mode	Information	Bandwidth (MHz)	Position	Dist. (mm)	Ch.	Freq. (MHz)	VRB Length	VRB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Worse case</b>																	
n41 Ant.1	state11	DFT-s-OFDM BPSK	SA	100	Top Edge	0	518598	2592.99	1	137	0.08	1.680	19.48	20.20	1.180	1.983	2#
Note: Refer to ANNEX C for the detailed test data for each test configuration.																	

### 10.30 Worst Case of WIFI 5GHz

Antenna	Power Reduction	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	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
<b>Worse case</b>															
Ant.7	Level1	802.11ac (VHT80)	Left Cheek	0	155	5775	0.16	0.909	13.42	13.50	1.019	93.33	1.071	0.992	3#
Ant.7	Level5	802.11ac (VHT80)	Back Side	15	138	5690	0.00	0.375	18.84	19.00	1.038	93.33	1.071	0.417	4#
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

## 11 SAR Measurement Variability

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

SAR repeated measurement procedure:

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

Frequency Band (MHz)	Wireless Band	RF Exposure Conditions	Test Position	Highest Measured SAR (W/kg)	Repeated SAR (Yes/No)	Repeated <sup>1st</sup> Measured SAR (W/kg)	Largest to Smallest SAR Radio
850	GSM	Head	Right Cheek	0.835	Yes	0.823	1.01
1900	GSM	Head	Right Tilt	1.060	Yes	1.020	1.04
1900	WCDMA band 2	Head	Right Tilt	0.962	Yes	0.936	1.03
1700	WCDMA band 4	Head	Right Tilt	0.903	Yes	0.879	1.03
1700	LTE band 2	Head	Right Tilt	0.981	Yes	0.942	1.04
1700	LTE band 4	Head	Right Tilt	1.030	Yes	0.989	1.04
850	LTE band 5	Head	Right Cheek	0.821	Yes	0.808	1.02
2600	LTE band 41	Head	Right Tilt	0.872	Yes	0.850	1.03
2600	n7	Head	Right Tilt	0.957	Yes	0.932	1.03
2600	n38	Head	Right Tilt	0.813	Yes	0.813	1.00
2600	n41	Head	Right Tilt	0.973	Yes	0.949	1.03
1700	n66	Head	Right Tilt	0.962	Yes	0.928	1.04

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

Note: For product specific 10g SAR, the highest measured 10g SAR is  $1.69 < 2.0$  W/kg, repeated measurement is not required.

## 12 SIMULTANEOUS TRANSMISSION

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

### 12.1 Simultaneous Transmission Mode Consider

No.	Simultaneous Tx Combination	Head	Body-worn	Hotspot	Specific
1	WLAN 2.4GHz + BT	Yes	Yes	Yes	Yes
2	WLAN 5GHz + BT	Yes	Yes	Yes	Yes
3	WLAN 2.4GHz + WLAN 5GHz	Yes	Yes	Yes	Yes
4	WLAN 2.4GHz + WLAN 5GHz + BT	Yes	Yes	Yes	Yes
5	WWAN + WLAN 2.4GHz	Yes	Yes	Yes	Yes
6	WWAN + WLAN 5GHz	Yes	Yes	Yes	Yes
7	WWAN + BT	Yes	Yes	Yes	Yes
8	WWAN + WLAN 2.4GHz + BT	Yes	Yes	Yes	Yes
9	WWAN + WLAN 5GHz + BT	Yes	Yes	Yes	Yes
10	WWAN + WLAN 2.4GHz + WLAN 5GHz	Yes	Yes	Yes	Yes
11	WWAN + WLAN 2.4GHz + WLAN 5GHz + BT	Yes	Yes	Yes	Yes

Note:

1. 2G&3G&4G&5G share the same antenna and can't transmit simultaneously.
2. WWAN antennas can switch automatically, but can't transmit simultaneously.
3. The maximum SAR summation is calculated based on the same configuration and test position.
4. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
5. This device 2.4GHz WLAN/5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz WLAN/5.5GHz WLAN supports WiFi Direct (GC only).

## 12.2 Sum SAR of Simultaneous Transmission

### 12.2.1 Head Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN2.4G and Bluetooth

Band	Antenna	Position	Stand alone SAR			SUM SAR
			1	2	3	Sum SAR
			WWAN (State16)	2.4G WIFI (Level3)	Bluetooth	(1+2+3)
GSM850	Ant.1	Left Cheek	0.127	0.298	0.424	0.849
	Ant.1	Left Tilt	0.114	0.181	0.332	0.627
	Ant.1	Right Cheek	0.170	0.119	0.216	0.505
	Ant.1	Right Tilt	0.155	0.123	0.204	0.482
GSM850	Ant.0	Left Cheek	0.155	0.298	0.424	0.876
	Ant.0	Left Tilt	0.078	0.181	0.332	0.591
	Ant.0	Right Cheek	0.115	0.119	0.216	0.450
	Ant.0	Right Tilt	0.063	0.123	0.204	0.389
GSM 1900	Ant.1	Left Cheek	0.107	0.298	0.424	0.829
	Ant.1	Left Tilt	0.133	0.181	0.332	0.646
	Ant.1	Right Cheek	0.163	0.119	0.216	0.498
	Ant.1	Right Tilt	0.363	0.123	0.204	0.690
GSM 1900	Ant.0	Left Cheek	0.053	0.298	0.424	0.775
	Ant.0	Left Tilt	0.047	0.181	0.332	0.561
	Ant.0	Right Cheek	0.046	0.119	0.216	0.381
	Ant.0	Right Tilt	0.039	0.123	0.204	0.366
WCDMA B2	Ant.1	Left Cheek	0.373	0.298	0.424	1.094
	Ant.1	Left Tilt	0.444	0.181	0.332	0.957
	Ant.1	Right Cheek	0.496	0.119	0.216	0.831
	Ant.1	Right Tilt	0.662	0.123	0.204	0.989
WCDMA B2	Ant.0	Left Cheek	0.130	0.298	0.424	0.852
	Ant.0	Left Tilt	0.157	0.181	0.332	0.670
	Ant.0	Right Cheek	0.104	0.119	0.216	0.438
	Ant.0	Right Tilt	0.153	0.123	0.204	0.479
WCDMA B4	Ant.1	Left Cheek	0.328	0.298	0.424	1.049
	Ant.1	Left Tilt	0.431	0.181	0.332	0.944
	Ant.1	Right Cheek	0.471	0.119	0.216	0.806
	Ant.1	Right Tilt	0.660	0.123	0.204	0.987
WCDMA B4	Ant.0	Left Cheek	0.126	0.298	0.424	0.848
	Ant.0	Left Tilt	0.099	0.181	0.332	0.612
	Ant.0	Right Cheek	0.119	0.119	0.216	0.454
	Ant.0	Right Tilt	0.098	0.123	0.204	0.425
WCDMA B5	Ant.1	Left Cheek	0.554	0.298	0.424	1.276
	Ant.1	Left Tilt	0.507	0.181	0.332	1.020
	Ant.1	Right Cheek	0.630	0.119	0.216	0.964
	Ant.1	Right Tilt	0.596	0.123	0.204	0.923
WCDMA B5	Ant.0	Left Cheek	0.174	0.298	0.424	0.896

	Ant.0	Left Tilt	0.087	0.181	0.332	0.600
	Ant.0	Right Cheek	0.144	0.119	0.216	0.479
	Ant.0	Right Tilt	0.077	0.123	0.204	0.404
LTE B2	Ant.1	Left Cheek	0.492	0.298	0.424	1.214
	Ant.1	Left Tilt	0.603	0.181	0.332	1.116
	Ant.1	Right Cheek	0.764	0.119	0.216	1.099
	Ant.1	Right Tilt	0.906	0.123	0.204	1.232
LTE B2	Ant.0	Left Cheek	0.129	0.298	0.424	0.851
	Ant.0	Left Tilt	0.129	0.181	0.332	0.642
	Ant.0	Right Cheek	0.110	0.119	0.216	0.445
	Ant.0	Right Tilt	0.163	0.123	0.204	0.490
LTE B4	Ant.1	Left Cheek	0.452	0.298	0.424	1.174
	Ant.1	Left Tilt	0.538	0.181	0.332	1.051
	Ant.1	Right Cheek	0.738	0.119	0.216	1.073
	Ant.1	Right Tilt	0.928	0.123	0.204	1.255
LTE B4	Ant.0	Left Cheek	0.099	0.298	0.424	0.821
	Ant.0	Left Tilt	0.070	0.181	0.332	0.583
	Ant.0	Right Cheek	0.093	0.119	0.216	0.428
	Ant.0	Right Tilt	0.084	0.123	0.204	0.411
LTE B5	Ant.1	Left Cheek	0.635	0.298	0.424	1.357
	Ant.1	Left Tilt	0.550	0.181	0.332	1.063
	Ant.1	Right Cheek	0.887	0.119	0.216	1.222
	Ant.1	Right Tilt	0.626	0.123	0.204	0.953
LTE B5	Ant.0	Left Cheek	0.158	0.298	0.424	0.880
	Ant.0	Left Tilt	0.078	0.181	0.332	0.591
	Ant.0	Right Cheek	0.127	0.119	0.216	0.462
	Ant.0	Right Tilt	0.069	0.123	0.204	0.396
LTE B7	Ant.1	Left Cheek	0.301	0.298	0.424	1.023
	Ant.1	Left Tilt	0.407	0.181	0.332	0.920
	Ant.1	Right Cheek	0.742	0.119	0.216	1.076
	Ant.1	Right Tilt	0.868	0.123	0.204	1.195
LTE B7	Ant.0	Left Cheek	0.222	0.298	0.424	0.944
	Ant.0	Left Tilt	0.207	0.181	0.332	0.720
	Ant.0	Right Cheek	0.399	0.119	0.216	0.734
	Ant.0	Right Tilt	0.177	0.123	0.204	0.504
LTE B12	Ant.1	Left Cheek	0.302	0.298	0.424	1.023
	Ant.1	Left Tilt	0.293	0.181	0.332	0.806
	Ant.1	Right Cheek	0.430	0.119	0.216	0.764
	Ant.1	Right Tilt	0.410	0.123	0.204	0.737
LTE B12	Ant.0	Left Cheek	0.117	0.298	0.424	0.838
	Ant.0	Left Tilt	0.072	0.181	0.332	0.585
	Ant.0	Right Cheek	0.099	0.119	0.216	0.433
	Ant.0	Right Tilt	0.068	0.123	0.204	0.395
LTE B13	Ant.1	Left Cheek	0.306	0.298	0.424	1.028
	Ant.1	Left Tilt	0.280	0.181	0.332	0.793

	Ant.1	Right Cheek	0.479	0.119	0.216	0.814
	Ant.1	Right Tilt	0.375	0.123	0.204	0.702
LTE B13	Ant.0	Left Cheek	0.167	0.298	0.424	0.889
	Ant.0	Left Tilt	0.093	0.181	0.332	0.606
	Ant.0	Right Cheek	0.125	0.119	0.216	0.460
	Ant.0	Right Tilt	0.080	0.123	0.204	0.407
	Ant.1	Left Cheek	0.229	0.298	0.424	0.951
LTE B17	Ant.1	Left Tilt	0.228	0.181	0.332	0.741
	Ant.1	Right Cheek	0.386	0.119	0.216	0.721
	Ant.1	Right Tilt	0.329	0.123	0.204	0.655
	Ant.0	Left Cheek	0.121	0.298	0.424	0.843
LTE B17	Ant.0	Left Tilt	0.057	0.181	0.332	0.570
	Ant.0	Right Cheek	0.096	0.119	0.216	0.431
	Ant.0	Right Tilt	0.073	0.123	0.204	0.400
	Ant.1	Left Cheek	0.448	0.298	0.424	1.170
LTE B26	Ant.1	Left Tilt	0.412	0.181	0.332	0.925
	Ant.1	Right Cheek	0.623	0.119	0.216	0.958
	Ant.1	Right Tilt	0.538	0.123	0.204	0.864
	Ant.0	Left Cheek	0.123	0.298	0.424	0.844
LTE B26	Ant.0	Left Tilt	0.062	0.181	0.332	0.575
	Ant.0	Right Cheek	0.103	0.119	0.216	0.437
	Ant.0	Right Tilt	0.057	0.123	0.204	0.384
	Ant.1	Left Cheek	0.528	0.298	0.424	1.250
LTE B66	Ant.1	Left Tilt	0.640	0.181	0.332	1.153
	Ant.1	Right Cheek	0.899	0.119	0.216	1.234
	Ant.1	Right Tilt	1.035	0.123	0.204	1.362
	Ant.0	Left Cheek	0.126	0.298	0.424	0.848
LTE B66	Ant.0	Left Tilt	0.097	0.181	0.332	0.610
	Ant.0	Right Cheek	0.107	0.119	0.216	0.441
	Ant.0	Right Tilt	0.103	0.123	0.204	0.430
	Ant.1	Left Cheek	0.169	0.298	0.424	0.891
LTE B38	Ant.1	Left Tilt	0.230	0.181	0.332	0.744
	Ant.1	Right Cheek	0.404	0.119	0.216	0.739
	Ant.1	Right Tilt	0.484	0.123	0.204	0.811
	Ant.0	Left Cheek	0.129	0.298	0.424	0.851
LTE B38	Ant.0	Left Tilt	0.066	0.181	0.332	0.579
	Ant.0	Right Cheek	0.215	0.119	0.216	0.550
	Ant.0	Right Tilt	0.093	0.123	0.204	0.420
	Ant.1	Left Cheek	0.194	0.298	0.424	0.916
LTE B41	Ant.1	Left Tilt	0.254	0.181	0.332	0.767
	Ant.1	Right Cheek	0.445	0.119	0.216	0.780
	Ant.1	Right Tilt	0.564	0.123	0.204	0.891
	Ant.0	Left Cheek	0.122	0.298	0.424	0.844
LTE B41	Ant.0	Left Tilt	0.075	0.181	0.332	0.588
	Ant.0	Right Cheek	0.254	0.119	0.216	0.589

	Ant.0	Right Tilt	0.105	0.123	0.204	0.432
5G N5	Ant.1	Left Cheek	0.318	0.298	0.424	1.039
	Ant.1	Left Tilt	0.309	0.181	0.332	0.822
	Ant.1	Right Cheek	0.459	0.119	0.216	0.793
	Ant.1	Right Tilt	0.398	0.123	0.204	0.724
5G N5	Ant.0	Left Cheek	0.116	0.298	0.424	0.838
	Ant.0	Left Tilt	0.060	0.181	0.332	0.573
	Ant.0	Right Cheek	0.097	0.119	0.216	0.432
	Ant.0	Right Tilt	0.066	0.123	0.204	0.393
5G N7	Ant.1	Left Cheek	0.327	0.298	0.424	1.049
	Ant.1	Left Tilt	0.473	0.181	0.332	0.986
	Ant.1	Right Cheek	0.916	0.119	0.216	1.251
	Ant.1	Right Tilt	1.028	0.123	0.204	1.355
5G N7	Ant.0	Left Cheek	0.218	0.298	0.424	0.940
	Ant.0	Left Tilt	0.132	0.181	0.332	0.646
	Ant.0	Right Cheek	0.284	0.119	0.216	0.619
	Ant.0	Right Tilt	0.090	0.123	0.204	0.417
5G N38	Ant.1	Left Cheek	0.258	0.298	0.424	0.980
	Ant.1	Left Tilt	0.355	0.181	0.332	0.868
	Ant.1	Right Cheek	0.728	0.119	0.216	1.062
	Ant.1	Right Tilt	0.904	0.123	0.204	1.231
5G N38	Ant.0	Left Cheek	0.149	0.298	0.424	0.871
	Ant.0	Left Tilt	0.089	0.181	0.332	0.602
	Ant.0	Right Cheek	0.203	0.119	0.216	0.538
	Ant.0	Right Tilt	0.147	0.123	0.204	0.473
5G N41	Ant.1	Left Cheek	0.322	0.298	0.424	1.044
	Ant.1	Left Tilt	0.432	0.181	0.332	0.945
	Ant.1	Right Cheek	0.840	0.119	0.216	1.174
	Ant.1	Right Tilt	1.014	0.123	0.204	1.341
5G N41	Ant.0	Left Cheek	0.252	0.298	0.424	0.974
	Ant.0	Left Tilt	0.179	0.181	0.332	0.693
	Ant.0	Right Cheek	0.425	0.119	0.216	0.759
	Ant.0	Right Tilt	0.125	0.123	0.204	0.452
5G N66	Ant.1	Left Cheek	0.576	0.298	0.424	1.298
	Ant.1	Left Tilt	0.680	0.181	0.332	1.194
	Ant.1	Right Cheek	0.964	0.119	0.216	1.298
	Ant.1	Right Tilt	1.097	0.123	0.204	<b>1.424</b>
5G N66	Ant.0	Left Cheek	0.075	0.298	0.424	0.796
	Ant.0	Left Tilt	0.071	0.181	0.332	0.585
	Ant.0	Right Cheek	0.092	0.119	0.216	0.426
	Ant.0	Right Tilt	0.077	0.123	0.204	0.404

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



### 12.2.2 Head Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN5G and Bluetooth

Band	Antenna	Position	Stand alone SAR			SUM SAR
			1	2	3	Sum SAR
			WWAN (State19)	5G WIFI (Level3)	Bluetooth	(1+2+3)
GSM850	Ant.1	Left Cheek	0.127	0.467	0.424	1.018
	Ant.1	Left Tilt	0.114	0.425	0.332	0.871
	Ant.1	Right Cheek	0.170	0.238	0.216	0.624
	Ant.1	Right Tilt	0.155	0.269	0.204	0.628
GSM850	Ant.0	Left Cheek	0.155	0.467	0.424	1.045
	Ant.0	Left Tilt	0.078	0.425	0.332	0.835
	Ant.0	Right Cheek	0.115	0.238	0.216	0.569
	Ant.0	Right Tilt	0.063	0.269	0.204	0.536
GSM 1900	Ant.1	Left Cheek	0.107	0.467	0.424	0.998
	Ant.1	Left Tilt	0.133	0.425	0.332	0.889
	Ant.1	Right Cheek	0.163	0.238	0.216	0.617
	Ant.1	Right Tilt	0.363	0.269	0.204	0.837
GSM 1900	Ant.0	Left Cheek	0.053	0.467	0.424	0.943
	Ant.0	Left Tilt	0.047	0.425	0.332	0.804
	Ant.0	Right Cheek	0.046	0.238	0.216	0.500
	Ant.0	Right Tilt	0.039	0.269	0.204	0.512
WCDMA B2	Ant.1	Left Cheek	0.102	0.467	0.424	0.993
	Ant.1	Left Tilt	0.127	0.425	0.332	0.884
	Ant.1	Right Cheek	0.139	0.238	0.216	0.593
	Ant.1	Right Tilt	0.191	0.269	0.204	0.665
WCDMA B2	Ant.0	Left Cheek	0.130	0.467	0.424	1.021
	Ant.0	Left Tilt	0.157	0.425	0.332	0.913
	Ant.0	Right Cheek	0.104	0.238	0.216	0.558
	Ant.0	Right Tilt	0.153	0.269	0.204	0.626
WCDMA B4	Ant.1	Left Cheek	0.088	0.467	0.424	0.978
	Ant.1	Left Tilt	0.114	0.425	0.332	0.871
	Ant.1	Right Cheek	0.135	0.238	0.216	0.589
	Ant.1	Right Tilt	0.181	0.269	0.204	0.655
WCDMA B4	Ant.0	Left Cheek	0.126	0.467	0.424	1.016
	Ant.0	Left Tilt	0.099	0.425	0.332	0.856
	Ant.0	Right Cheek	0.119	0.238	0.216	0.573
	Ant.0	Right Tilt	0.098	0.269	0.204	0.572
WCDMA B5	Ant.1	Left Cheek	0.199	0.467	0.424	1.090
	Ant.1	Left Tilt	0.171	0.425	0.332	0.927
	Ant.1	Right Cheek	0.223	0.238	0.216	0.677
	Ant.1	Right Tilt	0.210	0.269	0.204	0.683
WCDMA B5	Ant.0	Left Cheek	0.174	0.467	0.424	1.064
	Ant.0	Left Tilt	0.087	0.425	0.332	0.844
	Ant.0	Right Cheek	0.144	0.238	0.216	0.598

	Ant.0	Right Tilt	0.077	0.269	0.204	0.551
LTE B2	Ant.1	Left Cheek	0.165	0.467	0.424	1.056
	Ant.1	Left Tilt	0.200	0.425	0.332	0.957
	Ant.1	Right Cheek	0.262	0.238	0.216	0.716
	Ant.1	Right Tilt	0.317	0.269	0.204	0.791
LTE B2	Ant.0	Left Cheek	0.129	0.467	0.424	1.020
	Ant.0	Left Tilt	0.129	0.425	0.332	0.886
	Ant.0	Right Cheek	0.110	0.238	0.216	0.564
	Ant.0	Right Tilt	0.163	0.269	0.204	0.636
LTE B4	Ant.1	Left Cheek	0.177	0.467	0.424	1.067
	Ant.1	Left Tilt	0.200	0.425	0.332	0.956
	Ant.1	Right Cheek	0.286	0.238	0.216	0.740
	Ant.1	Right Tilt	0.308	0.269	0.204	0.781
LTE B4	Ant.0	Left Cheek	0.099	0.467	0.424	0.989
	Ant.0	Left Tilt	0.070	0.425	0.332	0.826
	Ant.0	Right Cheek	0.093	0.238	0.216	0.547
	Ant.0	Right Tilt	0.084	0.269	0.204	0.557
LTE B5	Ant.1	Left Cheek	0.152	0.467	0.424	1.042
	Ant.1	Left Tilt	0.135	0.425	0.332	0.891
	Ant.1	Right Cheek	0.209	0.238	0.216	0.662
	Ant.1	Right Tilt	0.160	0.269	0.204	0.633
LTE B5	Ant.0	Left Cheek	0.158	0.467	0.424	1.048
	Ant.0	Left Tilt	0.078	0.425	0.332	0.834
	Ant.0	Right Cheek	0.127	0.238	0.216	0.581
	Ant.0	Right Tilt	0.069	0.269	0.204	0.542
LTE B7	Ant.1	Left Cheek	0.180	0.467	0.424	1.070
	Ant.1	Left Tilt	0.228	0.425	0.332	0.985
	Ant.1	Right Cheek	0.423	0.238	0.216	0.876
	Ant.1	Right Tilt	0.469	0.269	0.204	0.943
LTE B7	Ant.0	Left Cheek	0.222	0.467	0.424	1.112
	Ant.0	Left Tilt	0.207	0.425	0.332	0.964
	Ant.0	Right Cheek	0.399	0.238	0.216	0.853
	Ant.0	Right Tilt	0.177	0.269	0.204	0.651
LTE B12	Ant.1	Left Cheek	0.150	0.467	0.424	1.040
	Ant.1	Left Tilt	0.144	0.425	0.332	0.901
	Ant.1	Right Cheek	0.220	0.238	0.216	0.674
	Ant.1	Right Tilt	0.214	0.269	0.204	0.687
LTE B12	Ant.0	Left Cheek	0.117	0.467	0.424	1.007
	Ant.0	Left Tilt	0.072	0.425	0.332	0.828
	Ant.0	Right Cheek	0.099	0.238	0.216	0.553
	Ant.0	Right Tilt	0.068	0.269	0.204	0.541
LTE B13	Ant.1	Left Cheek	0.176	0.467	0.424	1.066
	Ant.1	Left Tilt	0.155	0.425	0.332	0.911
	Ant.1	Right Cheek	0.268	0.238	0.216	0.721
	Ant.1	Right Tilt	0.207	0.269	0.204	0.680

LTE B13	Ant.0	Left Cheek	0.167	0.467	0.424	1.058
	Ant.0	Left Tilt	0.093	0.425	0.332	0.849
	Ant.0	Right Cheek	0.125	0.238	0.216	0.579
	Ant.0	Right Tilt	0.080	0.269	0.204	0.553
LTE B17	Ant.1	Left Cheek	0.134	0.467	0.424	1.025
	Ant.1	Left Tilt	0.133	0.425	0.332	0.890
	Ant.1	Right Cheek	0.231	0.238	0.216	0.685
	Ant.1	Right Tilt	0.200	0.269	0.204	0.673
LTE B17	Ant.0	Left Cheek	0.121	0.467	0.424	1.012
	Ant.0	Left Tilt	0.057	0.425	0.332	0.813
	Ant.0	Right Cheek	0.096	0.238	0.216	0.550
	Ant.0	Right Tilt	0.073	0.269	0.204	0.546
LTE B26	Ant.1	Left Cheek	0.182	0.467	0.424	1.072
	Ant.1	Left Tilt	0.162	0.425	0.332	0.919
	Ant.1	Right Cheek	0.251	0.238	0.216	0.705
	Ant.1	Right Tilt	0.210	0.269	0.204	0.683
LTE B26	Ant.0	Left Cheek	0.123	0.467	0.424	1.013
	Ant.0	Left Tilt	0.062	0.425	0.332	0.818
	Ant.0	Right Cheek	0.103	0.238	0.216	0.556
	Ant.0	Right Tilt	0.057	0.269	0.204	0.531
LTE B66	Ant.1	Left Cheek	0.075	0.467	0.424	0.966
	Ant.1	Left Tilt	0.090	0.425	0.332	0.847
	Ant.1	Right Cheek	0.129	0.238	0.216	0.582
	Ant.1	Right Tilt	0.144	0.269	0.204	0.617
LTE B66	Ant.0	Left Cheek	0.126	0.467	0.424	1.017
	Ant.0	Left Tilt	0.097	0.425	0.332	0.854
	Ant.0	Right Cheek	0.107	0.238	0.216	0.561
	Ant.0	Right Tilt	0.103	0.269	0.204	0.577
LTE B38	Ant.1	Left Cheek	0.146	0.467	0.424	1.036
	Ant.1	Left Tilt	0.204	0.425	0.332	0.961
	Ant.1	Right Cheek	0.345	0.238	0.216	0.798
	Ant.1	Right Tilt	0.418	0.269	0.204	0.892
LTE B38	Ant.0	Left Cheek	0.129	0.467	0.424	1.019
	Ant.0	Left Tilt	0.066	0.425	0.332	0.823
	Ant.0	Right Cheek	0.215	0.238	0.216	0.669
	Ant.0	Right Tilt	0.093	0.269	0.204	0.567
LTE B41	Ant.1	Left Cheek	0.170	0.467	0.424	1.061
	Ant.1	Left Tilt	0.221	0.425	0.332	0.977
	Ant.1	Right Cheek	0.378	0.238	0.216	0.832
	Ant.1	Right Tilt	0.498	0.269	0.204	0.972
LTE B41	Ant.0	Left Cheek	0.152	0.467	0.424	1.042
	Ant.0	Left Tilt	0.075	0.425	0.332	0.832
	Ant.0	Right Cheek	0.254	0.238	0.216	0.708
	Ant.0	Right Tilt	0.105	0.269	0.204	0.579
5G N5	Ant.1	Left Cheek	0.318	0.467	0.424	1.208

	Ant.1	Left Tilt	0.309	0.425	0.332	1.066
	Ant.1	Right Cheek	0.459	0.238	0.216	0.912
	Ant.1	Right Tilt	0.398	0.269	0.204	0.871
5G N5	Ant.0	Left Cheek	0.116	0.467	0.424	1.007
	Ant.0	Left Tilt	0.060	0.425	0.332	0.817
	Ant.0	Right Cheek	0.097	0.238	0.216	0.551
	Ant.0	Right Tilt	0.066	0.269	0.204	0.539
5G N7	Ant.1	Left Cheek	0.327	0.467	0.424	1.218
	Ant.1	Left Tilt	0.468	0.425	0.332	1.225
	Ant.1	Right Cheek	0.916	0.238	0.216	1.370
	Ant.1	Right Tilt	1.028	0.269	0.204	1.501
5G N7	Ant.0	Left Cheek	0.218	0.467	0.424	1.109
	Ant.0	Left Tilt	0.132	0.425	0.332	0.889
	Ant.0	Right Cheek	0.284	0.238	0.216	0.738
	Ant.0	Right Tilt	0.090	0.269	0.204	0.564
5G N38	Ant.1	Left Cheek	0.258	0.467	0.424	1.149
	Ant.1	Left Tilt	0.355	0.425	0.332	1.111
	Ant.1	Right Cheek	0.728	0.238	0.216	1.182
	Ant.1	Right Tilt	0.904	0.269	0.204	1.377
5G N38	Ant.0	Left Cheek	0.149	0.467	0.424	1.040
	Ant.0	Left Tilt	0.089	0.425	0.332	0.846
	Ant.0	Right Cheek	0.203	0.238	0.216	0.657
	Ant.0	Right Tilt	0.147	0.269	0.204	0.620
5G N41	Ant.1	Left Cheek	0.322	0.467	0.424	1.213
	Ant.1	Left Tilt	0.432	0.425	0.332	1.188
	Ant.1	Right Cheek	0.840	0.238	0.216	1.293
	Ant.1	Right Tilt	1.014	0.269	0.204	1.487
5G N41	Ant.0	Left Cheek	0.252	0.467	0.424	1.143
	Ant.0	Left Tilt	0.179	0.425	0.332	0.936
	Ant.0	Right Cheek	0.425	0.238	0.216	0.878
	Ant.0	Right Tilt	0.125	0.269	0.204	0.599
5G N66	Ant.1	Left Cheek	0.576	0.467	0.424	1.467
	Ant.1	Left Tilt	0.680	0.425	0.332	1.437
	Ant.1	Right Cheek	0.964	0.238	0.216	1.417
	Ant.1	Right Tilt	1.097	0.269	0.204	<b>1.570</b>
5G N66	Ant.0	Left Cheek	0.075	0.467	0.424	0.965
	Ant.0	Left Tilt	0.071	0.425	0.332	0.828
	Ant.0	Right Cheek	0.092	0.238	0.216	0.546
	Ant.0	Right Tilt	0.077	0.269	0.204	0.550

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

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

Band	Antenna	Position	Stand alone SAR				SUM SAR
			1	2	3	4	Sum SAR
			WWAN (State17)	2.4G WIFI (Level4)	5G WIFI (Level4)	Bluetooth	(1+2+3+4)
GSM850	Ant.1	Left Cheek	0.127	0.246	0.467	0.424	1.264
	Ant.1	Left Tilt	0.114	0.156	0.425	0.332	1.027
	Ant.1	Right Cheek	0.170	0.091	0.238	0.216	0.715
	Ant.1	Right Tilt	0.155	0.104	0.269	0.204	0.732
GSM850	Ant.0	Left Cheek	0.155	0.246	0.467	0.424	1.292
	Ant.0	Left Tilt	0.078	0.156	0.425	0.332	0.991
	Ant.0	Right Cheek	0.115	0.091	0.238	0.216	0.660
	Ant.0	Right Tilt	0.063	0.104	0.269	0.204	0.640
GSM 1900	Ant.1	Left Cheek	0.107	0.246	0.467	0.424	1.244
	Ant.1	Left Tilt	0.133	0.156	0.425	0.332	1.045
	Ant.1	Right Cheek	0.163	0.091	0.238	0.216	0.708
	Ant.1	Right Tilt	0.363	0.104	0.269	0.204	0.941
GSM 1900	Ant.0	Left Cheek	0.053	0.246	0.467	0.424	1.190
	Ant.0	Left Tilt	0.047	0.156	0.425	0.332	0.960
	Ant.0	Right Cheek	0.046	0.091	0.238	0.216	0.591
	Ant.0	Right Tilt	0.039	0.104	0.269	0.204	0.616
WCDMA B2	Ant.1	Left Cheek	0.102	0.246	0.467	0.424	1.239
	Ant.1	Left Tilt	0.127	0.156	0.425	0.332	1.040
	Ant.1	Right Cheek	0.139	0.091	0.238	0.216	0.684
	Ant.1	Right Tilt	0.191	0.104	0.269	0.204	0.769
WCDMA B2	Ant.0	Left Cheek	0.130	0.246	0.467	0.424	1.267
	Ant.0	Left Tilt	0.157	0.156	0.425	0.332	1.070
	Ant.0	Right Cheek	0.104	0.091	0.238	0.216	0.649
	Ant.0	Right Tilt	0.153	0.104	0.269	0.204	0.730
WCDMA B4	Ant.1	Left Cheek	0.088	0.246	0.467	0.424	1.224
	Ant.1	Left Tilt	0.114	0.156	0.425	0.332	1.027
	Ant.1	Right Cheek	0.135	0.091	0.238	0.216	0.680
	Ant.1	Right Tilt	0.181	0.104	0.269	0.204	0.759
WCDMA B4	Ant.0	Left Cheek	0.126	0.246	0.467	0.424	1.263
	Ant.0	Left Tilt	0.099	0.156	0.425	0.332	1.012
	Ant.0	Right Cheek	0.119	0.091	0.238	0.216	0.664
	Ant.0	Right Tilt	0.098	0.104	0.269	0.204	0.675
WCDMA B5	Ant.1	Left Cheek	0.159	0.246	0.467	0.424	1.295
	Ant.1	Left Tilt	0.144	0.156	0.425	0.332	1.057
	Ant.1	Right Cheek	0.175	0.091	0.238	0.216	0.720
	Ant.1	Right Tilt	0.163	0.104	0.269	0.204	0.740
WCDMA B5	Ant.0	Left Cheek	0.174	0.246	0.467	0.424	1.311
	Ant.0	Left Tilt	0.087	0.156	0.425	0.332	1.000
	Ant.0	Right Cheek	0.144	0.091	0.238	0.216	0.689

	Ant.0	Right Tilt	0.077	0.104	0.269	0.204	0.655
LTE B2	Ant.1	Left Cheek	0.165	0.246	0.467	0.424	1.302
	Ant.1	Left Tilt	0.200	0.156	0.425	0.332	1.113
	Ant.1	Right Cheek	0.262	0.091	0.238	0.216	0.807
	Ant.1	Right Tilt	0.317	0.104	0.269	0.204	0.894
LTE B2	Ant.0	Left Cheek	0.129	0.246	0.467	0.424	1.266
	Ant.0	Left Tilt	0.129	0.156	0.425	0.332	1.042
	Ant.0	Right Cheek	0.110	0.091	0.238	0.216	0.655
	Ant.0	Right Tilt	0.163	0.104	0.269	0.204	0.740
LTE B4	Ant.1	Left Cheek	0.177	0.246	0.467	0.424	1.314
	Ant.1	Left Tilt	0.200	0.156	0.425	0.332	1.112
	Ant.1	Right Cheek	0.286	0.091	0.238	0.216	0.831
	Ant.1	Right Tilt	0.308	0.104	0.269	0.204	0.885
LTE B4	Ant.0	Left Cheek	0.099	0.246	0.467	0.424	1.236
	Ant.0	Left Tilt	0.070	0.156	0.425	0.332	0.982
	Ant.0	Right Cheek	0.093	0.091	0.238	0.216	0.638
	Ant.0	Right Tilt	0.084	0.104	0.269	0.204	0.661
LTE B5	Ant.1	Left Cheek	0.152	0.246	0.467	0.424	1.288
	Ant.1	Left Tilt	0.135	0.156	0.425	0.332	1.048
	Ant.1	Right Cheek	0.209	0.091	0.238	0.216	0.754
	Ant.1	Right Tilt	0.160	0.104	0.269	0.204	0.737
LTE B5	Ant.0	Left Cheek	0.158	0.246	0.467	0.424	1.295
	Ant.0	Left Tilt	0.078	0.156	0.425	0.332	0.991
	Ant.0	Right Cheek	0.127	0.091	0.238	0.216	0.672
	Ant.0	Right Tilt	0.069	0.104	0.269	0.204	0.646
LTE B7	Ant.1	Left Cheek	0.152	0.246	0.467	0.424	1.289
	Ant.1	Left Tilt	0.208	0.156	0.425	0.332	1.121
	Ant.1	Right Cheek	0.361	0.091	0.238	0.216	0.906
	Ant.1	Right Tilt	0.406	0.104	0.269	0.204	0.984
LTE B7	Ant.0	Left Cheek	0.222	0.246	0.467	0.424	1.359
	Ant.0	Left Tilt	0.207	0.156	0.425	0.332	1.120
	Ant.0	Right Cheek	0.399	0.091	0.238	0.216	0.944
	Ant.0	Right Tilt	0.177	0.104	0.269	0.204	0.754
LTE B12	Ant.1	Left Cheek	0.150	0.246	0.467	0.424	1.287
	Ant.1	Left Tilt	0.144	0.156	0.425	0.332	1.057
	Ant.1	Right Cheek	0.220	0.091	0.238	0.216	0.765
	Ant.1	Right Tilt	0.214	0.104	0.269	0.204	0.791
LTE B12	Ant.0	Left Cheek	0.117	0.246	0.467	0.424	1.254
	Ant.0	Left Tilt	0.072	0.156	0.425	0.332	0.985
	Ant.0	Right Cheek	0.099	0.091	0.238	0.216	0.644
	Ant.0	Right Tilt	0.068	0.104	0.269	0.204	0.645
LTE B13	Ant.1	Left Cheek	0.176	0.246	0.467	0.424	1.313
	Ant.1	Left Tilt	0.155	0.156	0.425	0.332	1.068
	Ant.1	Right Cheek	0.268	0.091	0.238	0.216	0.813
	Ant.1	Right Tilt	0.207	0.104	0.269	0.204	0.784

LTE B13	Ant.0	Left Cheek	0.167	0.246	0.467	0.424	1.304
	Ant.0	Left Tilt	0.093	0.156	0.425	0.332	1.006
	Ant.0	Right Cheek	0.125	0.091	0.238	0.216	0.670
	Ant.0	Right Tilt	0.080	0.104	0.269	0.204	0.657
LTE B17	Ant.1	Left Cheek	0.134	0.246	0.467	0.424	1.271
	Ant.1	Left Tilt	0.133	0.156	0.425	0.332	1.046
	Ant.1	Right Cheek	0.231	0.091	0.238	0.216	0.776
	Ant.1	Right Tilt	0.200	0.104	0.269	0.204	0.777
LTE B17	Ant.0	Left Cheek	0.121	0.246	0.467	0.424	1.258
	Ant.0	Left Tilt	0.057	0.156	0.425	0.332	0.970
	Ant.0	Right Cheek	0.096	0.091	0.238	0.216	0.641
	Ant.0	Right Tilt	0.073	0.104	0.269	0.204	0.650
LTE B26	Ant.1	Left Cheek	0.182	0.246	0.467	0.424	1.319
	Ant.1	Left Tilt	0.162	0.156	0.425	0.332	1.075
	Ant.1	Right Cheek	0.251	0.091	0.238	0.216	0.796
	Ant.1	Right Tilt	0.210	0.104	0.269	0.204	0.787
LTE B26	Ant.0	Left Cheek	0.123	0.246	0.467	0.424	1.259
	Ant.0	Left Tilt	0.062	0.156	0.425	0.332	0.975
	Ant.0	Right Cheek	0.103	0.091	0.238	0.216	0.648
	Ant.0	Right Tilt	0.057	0.104	0.269	0.204	0.634
LTE B66	Ant.1	Left Cheek	0.075	0.246	0.467	0.424	1.212
	Ant.1	Left Tilt	0.090	0.156	0.425	0.332	1.003
	Ant.1	Right Cheek	0.129	0.091	0.238	0.216	0.674
	Ant.1	Right Tilt	0.144	0.104	0.269	0.204	0.721
LTE B66	Ant.0	Left Cheek	0.126	0.246	0.467	0.424	1.263
	Ant.0	Left Tilt	0.097	0.156	0.425	0.332	1.010
	Ant.0	Right Cheek	0.107	0.091	0.238	0.216	0.652
	Ant.0	Right Tilt	0.103	0.104	0.269	0.204	0.680
LTE B38	Ant.1	Left Cheek	0.146	0.246	0.467	0.424	1.283
	Ant.1	Left Tilt	0.204	0.156	0.425	0.332	1.117
	Ant.1	Right Cheek	0.345	0.091	0.238	0.216	0.890
	Ant.1	Right Tilt	0.418	0.104	0.269	0.204	0.995
LTE B38	Ant.0	Left Cheek	0.129	0.246	0.467	0.424	1.266
	Ant.0	Left Tilt	0.066	0.156	0.425	0.332	0.979
	Ant.0	Right Cheek	0.215	0.091	0.238	0.216	0.760
	Ant.0	Right Tilt	0.093	0.104	0.269	0.204	0.671
LTE B41	Ant.1	Left Cheek	0.170	0.246	0.467	0.424	1.307
	Ant.1	Left Tilt	0.221	0.156	0.425	0.332	1.133
	Ant.1	Right Cheek	0.378	0.091	0.238	0.216	0.923
	Ant.1	Right Tilt	0.498	0.104	0.269	0.204	1.076
LTE B41	Ant.0	Left Cheek	0.152	0.246	0.467	0.424	1.289
	Ant.0	Left Tilt	0.075	0.156	0.425	0.332	0.988
	Ant.0	Right Cheek	0.254	0.091	0.238	0.216	0.799
	Ant.0	Right Tilt	0.105	0.104	0.269	0.204	0.683
5G N5	Ant.1	Left Cheek	0.216	0.246	0.467	0.424	1.353

	Ant.1	Left Tilt	0.213	0.156	0.425	0.332	1.126
	Ant.1	Right Cheek	0.314	0.091	0.238	0.216	0.859
	Ant.1	Right Tilt	0.280	0.104	0.269	0.204	0.857
5G N5	Ant.0	Left Cheek	0.116	0.246	0.467	0.424	1.253
	Ant.0	Left Tilt	0.060	0.156	0.425	0.332	0.973
	Ant.0	Right Cheek	0.097	0.091	0.238	0.216	0.642
	Ant.0	Right Tilt	0.066	0.104	0.269	0.204	0.643
5G N7	Ant.1	Left Cheek	0.227	0.246	0.467	0.424	1.364
	Ant.1	Left Tilt	0.332	0.156	0.425	0.332	1.244
	Ant.1	Right Cheek	0.619	0.091	0.238	0.216	1.164
	Ant.1	Right Tilt	0.715	0.104	0.269	0.204	1.292
5G N7	Ant.0	Left Cheek	0.218	0.246	0.467	0.424	1.355
	Ant.0	Left Tilt	0.132	0.156	0.425	0.332	1.045
	Ant.0	Right Cheek	0.284	0.091	0.238	0.216	0.829
	Ant.0	Right Tilt	0.090	0.104	0.269	0.204	0.667
5G N38	Ant.1	Left Cheek	0.258	0.246	0.467	0.424	1.395
	Ant.1	Left Tilt	0.355	0.156	0.425	0.332	1.268
	Ant.1	Right Cheek	0.728	0.091	0.238	0.216	1.273
	Ant.1	Right Tilt	0.904	0.104	0.269	0.204	1.481
5G N38	Ant.0	Left Cheek	0.149	0.246	0.467	0.424	1.286
	Ant.0	Left Tilt	0.089	0.156	0.425	0.332	1.002
	Ant.0	Right Cheek	0.203	0.091	0.238	0.216	0.748
	Ant.0	Right Tilt	0.147	0.104	0.269	0.204	0.724
5G N41	Ant.1	Left Cheek	0.322	0.246	0.467	0.424	1.459
	Ant.1	Left Tilt	0.432	0.156	0.425	0.332	1.345
	Ant.1	Right Cheek	0.840	0.091	0.238	0.216	1.385
	Ant.1	Right Tilt	1.010	0.104	0.269	0.204	<b>1.587</b>
5G N41	Ant.0	Left Cheek	0.252	0.246	0.467	0.424	1.389
	Ant.0	Left Tilt	0.167	0.156	0.425	0.332	1.079
	Ant.0	Right Cheek	0.425	0.091	0.238	0.216	0.970
	Ant.0	Right Tilt	0.125	0.104	0.269	0.204	0.703
5G N66	Ant.1	Left Cheek	0.327	0.246	0.467	0.424	1.464
	Ant.1	Left Tilt	0.377	0.156	0.425	0.332	1.290
	Ant.1	Right Cheek	0.517	0.091	0.238	0.216	1.062
	Ant.1	Right Tilt	0.661	0.104	0.269	0.204	1.238
5G N66	Ant.0	Left Cheek	0.075	0.246	0.467	0.424	1.212
	Ant.0	Left Tilt	0.071	0.156	0.425	0.332	0.984
	Ant.0	Right Cheek	0.092	0.091	0.238	0.216	0.637
	Ant.0	Right Tilt	0.077	0.104	0.269	0.204	0.654

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



### 12.2.4 Body-worn Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN2.4G and Bluetooth

Band	Antenna	Position	Stand alone SAR			SUM SAR
			1	2	3	Sum SAR
			WWAN (State11)	2.4G WIFI (Level5)	Bluetooth	(1+2+3)
GSM850	Ant.1	Front Side 15mm	0.096	0.081	0.018	0.196
	Ant.1	Back Side 15mm	0.125	0.087	0.028	0.240
GSM850	Ant.0	Front Side 15mm	0.101	0.081	0.018	0.200
	Ant.0	Back Side 15mm	0.141	0.087	0.028	0.256
GSM 1900	Ant.1	Front Side 15mm	0.198	0.081	0.018	0.297
	Ant.1	Back Side 15mm	0.223	0.087	0.028	0.338
GSM 1900	Ant.0	Front Side 15mm	0.174	0.081	0.018	0.273
	Ant.0	Back Side 15mm	0.268	0.087	0.028	0.384
WCDMA B2	Ant.1	Front Side 15mm	0.156	0.081	0.018	0.255
	Ant.1	Back Side 15mm	0.180	0.087	0.028	0.295
WCDMA B2	Ant.0	Front Side 15mm	0.163	0.081	0.018	0.262
	Ant.0	Back Side 15mm	0.221	0.087	0.028	0.336
WCDMA B4	Ant.1	Front Side 15mm	0.148	0.081	0.018	0.247
	Ant.1	Back Side 15mm	0.162	0.087	0.028	0.278
WCDMA B4	Ant.0	Front Side 15mm	0.133	0.081	0.018	0.232
	Ant.0	Back Side 15mm	0.205	0.087	0.028	0.321
WCDMA B5	Ant.1	Front Side 15mm	0.141	0.081	0.018	0.240
	Ant.1	Back Side 15mm	0.162	0.087	0.028	0.278
WCDMA B5	Ant.0	Front Side 15mm	0.114	0.081	0.018	0.214
	Ant.0	Back Side 15mm	0.132	0.087	0.028	0.248
LTE B2	Ant.1	Front Side 15mm	0.122	0.081	0.018	0.221
	Ant.1	Back Side 15mm	0.154	0.087	0.028	0.270
LTE B2	Ant.0	Front Side 15mm	0.112	0.081	0.018	0.212
	Ant.0	Back Side 15mm	0.214	0.087	0.028	0.329
LTE B4	Ant.1	Front Side 15mm	0.121	0.081	0.018	0.220
	Ant.1	Back Side 15mm	0.129	0.087	0.028	0.244
LTE B4	Ant.0	Front Side 15mm	0.118	0.081	0.018	0.218
	Ant.0	Back Side 15mm	0.174	0.087	0.028	0.289
LTE B5	Ant.1	Front Side 15mm	0.152	0.081	0.018	0.251
	Ant.1	Back Side 15mm	0.178	0.087	0.028	0.293
LTE B5	Ant.0	Front Side 15mm	0.122	0.081	0.018	0.221
	Ant.0	Back Side 15mm	0.158	0.087	0.028	0.273
LTE B7	Ant.1	Front Side 15mm	0.121	0.081	0.018	0.221
	Ant.1	Back Side 15mm	0.247	0.087	0.028	0.362
LTE B7	Ant.0	Front Side 15mm	0.137	0.081	0.018	0.236
	Ant.0	Back Side 15mm	0.171	0.087	0.028	0.287
LTE B12	Ant.1	Front Side 15mm	0.128	0.081	0.018	0.227
	Ant.1	Back Side 15mm	0.176	0.087	0.028	0.291
LTE B12	Ant.0	Front Side 15mm	0.146	0.081	0.018	0.245

	Ant.0	Back Side 15mm	0.154	0.087	0.028	0.269
LTE B13	Ant.1	Front Side 15mm	0.146	0.081	0.018	0.245
	Ant.1	Back Side 15mm	0.179	0.087	0.028	0.294
LTE B13	Ant.0	Front Side 15mm	0.179	0.081	0.018	0.278
	Ant.0	Back Side 15mm	0.244	0.087	0.028	0.360
LTE B17	Ant.1	Front Side 15mm	0.151	0.081	0.018	0.250
	Ant.1	Back Side 15mm	0.173	0.087	0.028	0.288
LTE B17	Ant.0	Front Side 15mm	0.119	0.081	0.018	0.218
	Ant.0	Back Side 15mm	0.158	0.087	0.028	0.274
LTE B26	Ant.1	Front Side 15mm	0.134	0.081	0.018	0.233
	Ant.1	Back Side 15mm	0.181	0.087	0.028	0.297
LTE B26	Ant.0	Front Side 15mm	0.064	0.081	0.018	0.163
	Ant.0	Back Side 15mm	0.087	0.087	0.028	0.202
LTE B66	Ant.1	Front Side 15mm	0.137	0.081	0.018	0.236
	Ant.1	Back Side 15mm	0.148	0.087	0.028	0.264
LTE B66	Ant.0	Front Side 15mm	0.084	0.081	0.018	0.183
	Ant.0	Back Side 15mm	0.140	0.087	0.028	0.255
LTE B38	Ant.1	Front Side 15mm	0.115	0.081	0.018	0.215
	Ant.1	Back Side 15mm	0.235	0.087	0.028	0.350
LTE B38	Ant.0	Front Side 15mm	0.098	0.081	0.018	0.197
	Ant.0	Back Side 15mm	0.137	0.087	0.028	0.252
LTE B41	Ant.1	Front Side 15mm	0.120	0.081	0.018	0.220
	Ant.1	Back Side 15mm	0.203	0.087	0.028	0.319
LTE B41	Ant.0	Front Side 15mm	0.136	0.081	0.018	0.235
	Ant.0	Back Side 15mm	0.189	0.087	0.028	0.304
5G N5	Ant.1	Front Side 15mm	0.100	0.081	0.018	0.199
	Ant.1	Back Side 15mm	0.114	0.087	0.028	0.229
5G N5	Ant.0	Front Side 15mm	0.091	0.081	0.018	0.190
	Ant.0	Back Side 15mm	0.110	0.087	0.028	0.225
5G N7	Ant.1	Front Side 15mm	0.078	0.081	0.018	0.178
	Ant.1	Back Side 15mm	0.185	0.087	0.028	0.301
5G N7	Ant.0	Front Side 15mm	0.169	0.081	0.018	0.268
	Ant.0	Back Side 15mm	0.236	0.087	0.028	0.351
5G N38	Ant.1	Front Side 15mm	0.089	0.081	0.018	0.188
	Ant.1	Back Side 15mm	0.222	0.087	0.028	0.338
5G N38	Ant.0	Front Side 15mm	0.191	0.081	0.018	0.290
	Ant.0	Back Side 15mm	0.313	0.087	0.028	<b>0.428</b>
5G N41	Ant.1	Front Side 15mm	0.164	0.081	0.018	0.264
	Ant.1	Back Side 15mm	0.278	0.087	0.028	0.393
5G N41	Ant.0	Front Side 15mm	0.152	0.081	0.018	0.251
	Ant.0	Back Side 15mm	0.282	0.087	0.028	0.397
5G N66	Ant.1	Front Side 15mm	0.173	0.081	0.018	0.273
	Ant.1	Back Side 15mm	0.192	0.087	0.028	0.308
5G N66	Ant.0	Front Side 15mm	0.150	0.081	0.018	0.249
	Ant.0	Back Side 15mm	0.217	0.087	0.028	0.333

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

### 12.2.5 Body-worn Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN5G and Bluetooth

Band	Antenna	Position	Stand alone SAR			SUM SAR
			1	2	3	
			WWAN (State11)	5G WIFI (Level5)	Bluetooth	Sum SAR (1+2+3)
GSM850	Ant.1	Front Side 15mm	0.096	0.277	0.018	0.391
	Ant.1	Back Side 15mm	0.125	0.452	0.028	0.605
GSM850	Ant.0	Front Side 15mm	0.101	0.277	0.018	0.396
	Ant.0	Back Side 15mm	0.141	0.452	0.028	0.621
GSM 1900	Ant.1	Front Side 15mm	0.198	0.277	0.018	0.493
	Ant.1	Back Side 15mm	0.223	0.452	0.028	0.703
GSM 1900	Ant.0	Front Side 15mm	0.174	0.277	0.018	0.469
	Ant.0	Back Side 15mm	0.268	0.452	0.028	0.749
WCDMA B2	Ant.1	Front Side 15mm	0.156	0.277	0.018	0.450
	Ant.1	Back Side 15mm	0.180	0.452	0.028	0.660
WCDMA B2	Ant.0	Front Side 15mm	0.163	0.277	0.018	0.458
	Ant.0	Back Side 15mm	0.221	0.452	0.028	0.701
WCDMA B4	Ant.1	Front Side 15mm	0.148	0.277	0.018	0.443
	Ant.1	Back Side 15mm	0.162	0.452	0.028	0.643
WCDMA B4	Ant.0	Front Side 15mm	0.133	0.277	0.018	0.428
	Ant.0	Back Side 15mm	0.205	0.452	0.028	0.686
WCDMA B5	Ant.1	Front Side 15mm	0.141	0.277	0.018	0.436
	Ant.1	Back Side 15mm	0.162	0.452	0.028	0.643
WCDMA B5	Ant.0	Front Side 15mm	0.114	0.277	0.018	0.409
	Ant.0	Back Side 15mm	0.132	0.452	0.028	0.613
LTE B2	Ant.1	Front Side 15mm	0.122	0.277	0.018	0.417
	Ant.1	Back Side 15mm	0.154	0.452	0.028	0.635
LTE B2	Ant.0	Front Side 15mm	0.112	0.277	0.018	0.407
	Ant.0	Back Side 15mm	0.214	0.452	0.028	0.694
LTE B4	Ant.1	Front Side 15mm	0.121	0.277	0.018	0.415
	Ant.1	Back Side 15mm	0.129	0.452	0.028	0.610
LTE B4	Ant.0	Front Side 15mm	0.118	0.277	0.018	0.413
	Ant.0	Back Side 15mm	0.174	0.452	0.028	0.654
LTE B5	Ant.1	Front Side 15mm	0.152	0.277	0.018	0.446
	Ant.1	Back Side 15mm	0.178	0.452	0.028	0.658
LTE B5	Ant.0	Front Side 15mm	0.122	0.277	0.018	0.417
	Ant.0	Back Side 15mm	0.158	0.452	0.028	0.638
LTE B7	Ant.1	Front Side 15mm	0.121	0.277	0.018	0.416

	Ant.1	Back Side 15mm	0.247	0.452	0.028	0.728
LTE B7	Ant.0	Front Side 15mm	0.137	0.277	0.018	0.432
	Ant.0	Back Side 15mm	0.171	0.452	0.028	0.652
LTE B12	Ant.1	Front Side 15mm	0.128	0.277	0.018	0.423
	Ant.1	Back Side 15mm	0.176	0.452	0.028	0.656
LTE B12	Ant.0	Front Side 15mm	0.146	0.277	0.018	0.441
	Ant.0	Back Side 15mm	0.154	0.452	0.028	0.634
LTE B13	Ant.1	Front Side 15mm	0.146	0.277	0.018	0.440
	Ant.1	Back Side 15mm	0.179	0.452	0.028	0.659
LTE B13	Ant.0	Front Side 15mm	0.179	0.277	0.018	0.474
	Ant.0	Back Side 15mm	0.244	0.452	0.028	0.725
LTE B17	Ant.1	Front Side 15mm	0.151	0.277	0.018	0.446
	Ant.1	Back Side 15mm	0.173	0.452	0.028	0.653
LTE B17	Ant.0	Front Side 15mm	0.119	0.277	0.018	0.413
	Ant.0	Back Side 15mm	0.158	0.452	0.028	0.639
LTE B26	Ant.1	Front Side 15mm	0.134	0.277	0.018	0.428
	Ant.1	Back Side 15mm	0.181	0.452	0.028	0.662
LTE B26	Ant.0	Front Side 15mm	0.064	0.277	0.018	0.358
	Ant.0	Back Side 15mm	0.087	0.452	0.028	0.567
LTE B66	Ant.1	Front Side 15mm	0.137	0.277	0.018	0.431
	Ant.1	Back Side 15mm	0.148	0.452	0.028	0.629
LTE B66	Ant.0	Front Side 15mm	0.084	0.277	0.018	0.379
	Ant.0	Back Side 15mm	0.140	0.452	0.028	0.620
LTE B38	Ant.1	Front Side 15mm	0.115	0.277	0.018	0.410
	Ant.1	Back Side 15mm	0.235	0.452	0.028	0.715
LTE B38	Ant.0	Front Side 15mm	0.098	0.277	0.018	0.393
	Ant.0	Back Side 15mm	0.137	0.452	0.028	0.617
LTE B41	Ant.1	Front Side 15mm	0.120	0.277	0.018	0.415
	Ant.1	Back Side 15mm	0.203	0.452	0.028	0.684
LTE B41	Ant.0	Front Side 15mm	0.136	0.277	0.018	0.431
	Ant.0	Back Side 15mm	0.189	0.452	0.028	0.669
5G N5	Ant.1	Front Side 15mm	0.100	0.277	0.018	0.395
	Ant.1	Back Side 15mm	0.114	0.452	0.028	0.594
5G N5	Ant.0	Front Side 15mm	0.091	0.277	0.018	0.386
	Ant.0	Back Side 15mm	0.110	0.452	0.028	0.590
5G N7	Ant.1	Front Side 15mm	0.078	0.277	0.018	0.373
	Ant.1	Back Side 15mm	0.185	0.452	0.028	0.666
5G N7	Ant.0	Front Side 15mm	0.169	0.277	0.018	0.464
	Ant.0	Back Side 15mm	0.236	0.452	0.028	0.717
5G N38	Ant.1	Front Side 15mm	0.089	0.277	0.018	0.384
	Ant.1	Back Side 15mm	0.222	0.452	0.028	0.703
5G N38	Ant.0	Front Side 15mm	0.191	0.277	0.018	0.486
	Ant.0	Back Side 15mm	0.313	0.452	0.028	<b>0.793</b>
5G N41	Ant.1	Front Side 15mm	0.164	0.277	0.018	0.459
	Ant.1	Back Side 15mm	0.278	0.452	0.028	0.758

5G N41	Ant.0	Front Side 15mm	0.152	0.277	0.018	0.447
	Ant.0	Back Side 15mm	0.282	0.452	0.028	0.762
5G N66	Ant.1	Front Side 15mm	0.173	0.277	0.018	0.468
	Ant.1	Back Side 15mm	0.192	0.452	0.028	0.673
5G N66	Ant.0	Front Side 15mm	0.150	0.277	0.018	0.445
	Ant.0	Back Side 15mm	0.217	0.452	0.028	0.698

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

### 12.2.6 Body-worn Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

Band	Antenna	Position	Stand alone SAR				SUM SAR
			1	2	3	4	Sum SAR (1+2+3+4)
			WWAN (State11)	2.4G WIFI (Level5)	5G WIFI (Level5)	Bluetooth	
GSM850	Ant.1	Front Side 15mm	0.096	0.081	0.277	0.018	0.472
	Ant.1	Back Side 15mm	0.125	0.087	0.452	0.028	0.693
GSM850	Ant.0	Front Side 15mm	0.101	0.081	0.277	0.018	0.477
	Ant.0	Back Side 15mm	0.141	0.087	0.452	0.028	0.708
GSM 1900	Ant.1	Front Side 15mm	0.198	0.081	0.277	0.018	0.574
	Ant.1	Back Side 15mm	0.223	0.087	0.452	0.028	0.791
GSM 1900	Ant.0	Front Side 15mm	0.174	0.081	0.277	0.018	0.550
	Ant.0	Back Side 15mm	0.268	0.087	0.452	0.028	0.836
WCDMA B2	Ant.1	Front Side 15mm	0.156	0.081	0.277	0.018	0.532
	Ant.1	Back Side 15mm	0.180	0.087	0.452	0.028	0.748
WCDMA B2	Ant.0	Front Side 15mm	0.163	0.081	0.277	0.018	0.539
	Ant.0	Back Side 15mm	0.221	0.087	0.452	0.028	0.789
WCDMA B4	Ant.1	Front Side 15mm	0.148	0.081	0.277	0.018	0.524
	Ant.1	Back Side 15mm	0.162	0.087	0.452	0.028	0.730
WCDMA B4	Ant.0	Front Side 15mm	0.133	0.081	0.277	0.018	0.509
	Ant.0	Back Side 15mm	0.205	0.087	0.452	0.028	0.773
WCDMA B5	Ant.1	Front Side 15mm	0.141	0.081	0.277	0.018	0.517
	Ant.1	Back Side 15mm	0.162	0.087	0.452	0.028	0.730
WCDMA B5	Ant.0	Front Side 15mm	0.114	0.081	0.277	0.018	0.490
	Ant.0	Back Side 15mm	0.132	0.087	0.452	0.028	0.700
LTE B2	Ant.1	Front Side 15mm	0.122	0.081	0.277	0.018	0.498
	Ant.1	Back Side 15mm	0.154	0.087	0.452	0.028	0.722
LTE B2	Ant.0	Front Side 15mm	0.112	0.081	0.277	0.018	0.488
	Ant.0	Back Side 15mm	0.214	0.087	0.452	0.028	0.782
LTE B4	Ant.1	Front Side 15mm	0.121	0.081	0.277	0.018	0.497
	Ant.1	Back Side 15mm	0.129	0.087	0.452	0.028	0.697
LTE B4	Ant.0	Front Side 15mm	0.118	0.081	0.277	0.018	0.494

	Ant.0	Back Side 15mm	0.174	0.087	0.452	0.028	0.742
LTE B5	Ant.1	Front Side 15mm	0.152	0.081	0.277	0.018	0.528
	Ant.1	Back Side 15mm	0.178	0.087	0.452	0.028	0.746
LTE B5	Ant.0	Front Side 15mm	0.122	0.081	0.277	0.018	0.498
	Ant.0	Back Side 15mm	0.158	0.087	0.452	0.028	0.726
LTE B7	Ant.1	Front Side 15mm	0.121	0.081	0.277	0.018	0.497
	Ant.1	Back Side 15mm	0.247	0.087	0.452	0.028	0.815
LTE B7	Ant.0	Front Side 15mm	0.137	0.081	0.277	0.018	0.513
	Ant.0	Back Side 15mm	0.171	0.087	0.452	0.028	0.739
LTE B12	Ant.1	Front Side 15mm	0.128	0.081	0.277	0.018	0.504
	Ant.1	Back Side 15mm	0.176	0.087	0.452	0.028	0.743
LTE B12	Ant.0	Front Side 15mm	0.146	0.081	0.277	0.018	0.522
	Ant.0	Back Side 15mm	0.154	0.087	0.452	0.028	0.722
LTE B13	Ant.1	Front Side 15mm	0.146	0.081	0.277	0.018	0.522
	Ant.1	Back Side 15mm	0.179	0.087	0.452	0.028	0.747
LTE B13	Ant.0	Front Side 15mm	0.179	0.081	0.277	0.018	0.555
	Ant.0	Back Side 15mm	0.244	0.087	0.452	0.028	0.812
LTE B17	Ant.1	Front Side 15mm	0.151	0.081	0.277	0.018	0.527
	Ant.1	Back Side 15mm	0.173	0.087	0.452	0.028	0.741
LTE B17	Ant.0	Front Side 15mm	0.119	0.081	0.277	0.018	0.495
	Ant.0	Back Side 15mm	0.158	0.087	0.452	0.028	0.726
LTE B26	Ant.1	Front Side 15mm	0.134	0.081	0.277	0.018	0.510
	Ant.1	Back Side 15mm	0.181	0.087	0.452	0.028	0.749
LTE B26	Ant.0	Front Side 15mm	0.064	0.081	0.277	0.018	0.440
	Ant.0	Back Side 15mm	0.087	0.087	0.452	0.028	0.655
LTE B66	Ant.1	Front Side 15mm	0.137	0.081	0.277	0.018	0.513
	Ant.1	Back Side 15mm	0.148	0.087	0.452	0.028	0.716
LTE B66	Ant.0	Front Side 15mm	0.084	0.081	0.277	0.018	0.460
	Ant.0	Back Side 15mm	0.140	0.087	0.452	0.028	0.708
LTE B38	Ant.1	Front Side 15mm	0.115	0.081	0.277	0.018	0.491
	Ant.1	Back Side 15mm	0.235	0.087	0.452	0.028	0.802
LTE B38	Ant.0	Front Side 15mm	0.098	0.081	0.277	0.018	0.474
	Ant.0	Back Side 15mm	0.137	0.087	0.452	0.028	0.704
LTE B41	Ant.1	Front Side 15mm	0.120	0.081	0.277	0.018	0.496
	Ant.1	Back Side 15mm	0.203	0.087	0.452	0.028	0.771
LTE B41	Ant.0	Front Side 15mm	0.136	0.081	0.277	0.018	0.512
	Ant.0	Back Side 15mm	0.189	0.087	0.452	0.028	0.757
5G N5	Ant.1	Front Side 15mm	0.100	0.081	0.277	0.018	0.476
	Ant.1	Back Side 15mm	0.114	0.087	0.452	0.028	0.681
5G N5	Ant.0	Front Side 15mm	0.091	0.081	0.277	0.018	0.467
	Ant.0	Back Side 15mm	0.110	0.087	0.452	0.028	0.677
5G N7	Ant.1	Front Side 15mm	0.078	0.081	0.277	0.018	0.454
	Ant.1	Back Side 15mm	0.185	0.087	0.452	0.028	0.753
5G N7	Ant.0	Front Side 15mm	0.169	0.081	0.277	0.018	0.545
	Ant.0	Back Side 15mm	0.236	0.087	0.452	0.028	0.804

5G N38	Ant.1	Front Side 15mm	0.089	0.081	0.277	0.018	0.465
	Ant.1	Back Side 15mm	0.222	0.087	0.452	0.028	0.790
5G N38	Ant.0	Front Side 15mm	0.191	0.081	0.277	0.018	0.567
	Ant.0	Back Side 15mm	0.313	0.087	0.452	0.028	<b>0.881</b>
5G N41	Ant.1	Front Side 15mm	0.164	0.081	0.277	0.018	0.540
	Ant.1	Back Side 15mm	0.278	0.087	0.452	0.028	0.846
5G N41	Ant.0	Front Side 15mm	0.152	0.081	0.277	0.018	0.528
	Ant.0	Back Side 15mm	0.282	0.087	0.452	0.028	0.849
5G N66	Ant.1	Front Side 15mm	0.173	0.081	0.277	0.018	0.549
	Ant.1	Back Side 15mm	0.192	0.087	0.452	0.028	0.760
5G N66	Ant.0	Front Side 15mm	0.150	0.081	0.277	0.018	0.526
	Ant.0	Back Side 15mm	0.217	0.087	0.452	0.028	0.785

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

### 12.2.7 Hotspot Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN2.4G and Bluetooth

Band	Antenna	Position	Stand alone SAR			SUM SAR
			1	2	4	SUM SAR
			WWAN (State15)	2.4G WIFI (Level7)	Bluetooth	Sum SAR (1+2+3)
GSM850	Ant.1	Front Side 10mm	0.207	0.064	0.073	0.344
	Ant.1	Back Side 10mm	0.324	0.183	0.108	0.616
	Ant.1	Left Edge 10mm	0.000	0.070	0.066	0.136
	Ant.1	Right Edge 10mm	0.133	0.000	0.000	0.133
	Ant.1	Top Edge 10mm	0.216	0.091	0.073	0.380
GSM850	Ant.0	Front Side 10mm	0.139	0.064	0.073	0.276
	Ant.0	Back Side 10mm	0.171	0.183	0.108	0.463
	Ant.0	Left Edge 10mm	0.079	0.070	0.066	0.215
	Ant.0	Right Edge 10mm	0.120	0.000	0.000	0.120
	Ant.0	Top Edge 10mm	0.000	0.091	0.073	0.164
	Ant.0	Bottom Edge 10mm	0.207	0.000	0.000	0.207
GSM 1900	Ant.1	Front Side 10mm	0.525	0.064	0.073	0.662
	Ant.1	Back Side 10mm	0.651	0.183	0.108	0.942
	Ant.1	Left Edge 10mm	0.000	0.070	0.066	0.136
	Ant.1	Right Edge 10mm	0.139	0.000	0.000	0.139
	Ant.1	Top Edge 10mm	0.882	0.091	0.073	<b>1.046</b>
GSM 1900	Ant.0	Front Side 10mm	0.267	0.064	0.073	0.404
	Ant.0	Back Side 10mm	0.458	0.183	0.108	0.749
	Ant.0	Left Edge 10mm	0.125	0.070	0.066	0.260
	Ant.0	Right Edge 10mm	0.084	0.000	0.000	0.084
	Ant.0	Top Edge 10mm	0.000	0.091	0.073	0.164

	Ant.0	Bottom Edge 10mm	0.599	0.000	0.000	0.599
WCDMA B2	Ant.1	Front Side 10mm	0.289	0.064	0.073	0.426
	Ant.1	Back Side 10mm	0.339	0.183	0.108	0.630
	Ant.1	Left Edge 10mm	0.000	0.070	0.066	0.136
	Ant.1	Right Edge 10mm	0.072	0.000	0.000	0.072
	Ant.1	Top Edge 10mm	0.539	0.091	0.073	0.703
WCDMA B2	Ant.0	Front Side 10mm	0.269	0.064	0.073	0.406
	Ant.0	Back Side 10mm	0.468	0.183	0.108	0.759
	Ant.0	Left Edge 10mm	0.103	0.070	0.066	0.239
	Ant.0	Right Edge 10mm	0.067	0.000	0.000	0.067
	Ant.0	Top Edge 10mm	0.000	0.091	0.073	0.164
	Ant.0	Bottom Edge 10mm	0.618	0.000	0.000	0.618
WCDMA B4	Ant.1	Front Side 10mm	0.295	0.064	0.073	0.432
	Ant.1	Back Side 10mm	0.322	0.183	0.108	0.613
	Ant.1	Left Edge 10mm	0.000	0.070	0.066	0.136
	Ant.1	Right Edge 10mm	0.069	0.000	0.000	0.069
	Ant.1	Top Edge 10mm	0.502	0.091	0.073	0.666
WCDMA B4	Ant.0	Front Side 10mm	0.282	0.064	0.073	0.418
	Ant.0	Back Side 10mm	0.428	0.183	0.108	0.720
	Ant.0	Left Edge 10mm	0.094	0.070	0.066	0.230
	Ant.0	Right Edge 10mm	0.055	0.000	0.000	0.055
	Ant.0	Top Edge 10mm	0.000	0.091	0.073	0.164
	Ant.0	Bottom Edge 10mm	0.740	0.000	0.000	0.740
WCDMA B5	Ant.1	Front Side 10mm	0.229	0.064	0.073	0.366
	Ant.1	Back Side 10mm	0.319	0.183	0.108	0.610
	Ant.1	Left Edge 10mm	0.000	0.070	0.066	0.136
	Ant.1	Right Edge 10mm	0.151	0.000	0.000	0.151
	Ant.1	Top Edge 10mm	0.293	0.091	0.073	0.457
WCDMA B5	Ant.0	Front Side 10mm	0.144	0.064	0.073	0.281
	Ant.0	Back Side 10mm	0.192	0.183	0.108	0.483
	Ant.0	Left Edge 10mm	0.089	0.070	0.066	0.225
	Ant.0	Right Edge 10mm	0.132	0.000	0.000	0.132
	Ant.0	Top Edge 10mm	0.000	0.091	0.073	0.164
	Ant.0	Bottom Edge 10mm	0.186	0.000	0.000	0.186
LTE B2	Ant.1	Front Side 10mm	0.208	0.064	0.073	0.345
	Ant.1	Back Side 10mm	0.237	0.183	0.108	0.529
	Ant.1	Left Edge 10mm	0.000	0.070	0.066	0.136
	Ant.1	Right Edge 10mm	0.050	0.000	0.000	0.050
	Ant.1	Top Edge 10mm	0.381	0.091	0.073	0.545
LTE B2	Ant.0	Front Side 10mm	0.236	0.064	0.073	0.373
	Ant.0	Back Side 10mm	0.420	0.183	0.108	0.712
	Ant.0	Left Edge 10mm	0.114	0.070	0.066	0.250
	Ant.0	Right Edge 10mm	0.071	0.000	0.000	0.071
	Ant.0	Top Edge 10mm	0.000	0.091	0.073	0.164
	Ant.0	Bottom Edge 10mm	0.562	0.000	0.000	0.562



LTE B4	Ant.1	Front Side 10mm	0.236	0.064	0.073	0.373
	Ant.1	Back Side 10mm	0.190	0.183	0.108	0.481
	Ant.1	Left Edge 10mm	0.000	0.070	0.066	0.136
	Ant.1	Right Edge 10mm	0.045	0.000	0.000	0.045
	Ant.1	Top Edge 10mm	0.402	0.091	0.073	0.566
LTE B4	Ant.0	Front Side 10mm	0.228	0.064	0.073	0.365
	Ant.0	Back Side 10mm	0.342	0.183	0.108	0.633
	Ant.0	Left Edge 10mm	0.086	0.070	0.066	0.222
	Ant.0	Right Edge 10mm	0.045	0.000	0.000	0.045
	Ant.0	Top Edge 10mm	0.000	0.091	0.073	0.164
	Ant.0	Bottom Edge 10mm	0.592	0.000	0.000	0.592
LTE B5	Ant.1	Front Side 10mm	0.175	0.064	0.073	0.312
	Ant.1	Back Side 10mm	0.216	0.183	0.108	0.507
	Ant.1	Left Edge 10mm	0.000	0.070	0.066	0.136
	Ant.1	Right Edge 10mm	0.189	0.000	0.000	0.189
	Ant.1	Top Edge 10mm	0.210	0.091	0.073	0.374
LTE B5	Ant.0	Front Side 10mm	0.145	0.064	0.073	0.282
	Ant.0	Back Side 10mm	0.205	0.183	0.108	0.496
	Ant.0	Left Edge 10mm	0.090	0.070	0.066	0.226
	Ant.0	Right Edge 10mm	0.120	0.000	0.000	0.120
	Ant.0	Top Edge 10mm	0.000	0.091	0.073	0.164
	Ant.0	Bottom Edge 10mm	0.149	0.000	0.000	0.149
LTE B7	Ant.1	Front Side 10mm	0.254	0.064	0.073	0.391
	Ant.1	Back Side 10mm	0.664	0.183	0.108	0.955
	Ant.1	Left Edge 10mm	0.000	0.070	0.066	0.136
	Ant.1	Right Edge 10mm	0.097	0.000	0.000	0.097
	Ant.1	Top Edge 10mm	0.817	0.091	0.073	0.981
LTE B7	Ant.0	Front Side 10mm	0.259	0.064	0.073	0.396
	Ant.0	Back Side 10mm	0.363	0.183	0.108	0.654
	Ant.0	Left Edge 10mm	0.151	0.070	0.066	0.287
	Ant.0	Right Edge 10mm	0.030	0.000	0.000	0.030
	Ant.0	Top Edge 10mm	0.000	0.091	0.073	0.164
	Ant.0	Bottom Edge 10mm	0.214	0.000	0.000	0.214
LTE B12	Ant.1	Front Side 10mm	0.112	0.064	0.073	0.249
	Ant.1	Back Side 10mm	0.147	0.183	0.108	0.439
	Ant.1	Left Edge 10mm	0.000	0.070	0.066	0.136
	Ant.1	Right Edge 10mm	0.159	0.000	0.000	0.159
	Ant.1	Top Edge 10mm	0.110	0.091	0.073	0.274
LTE B12	Ant.0	Front Side 10mm	0.135	0.064	0.073	0.271
	Ant.0	Back Side 10mm	0.173	0.183	0.108	0.464
	Ant.0	Left Edge 10mm	0.131	0.070	0.066	0.267
	Ant.0	Right Edge 10mm	0.159	0.000	0.000	0.159
	Ant.0	Top Edge 10mm	0.000	0.091	0.073	0.164
	Ant.0	Bottom Edge 10mm	0.113	0.000	0.000	0.113
LTE B13	Ant.1	Front Side 10mm	0.142	0.064	0.073	0.279

	Ant.1	Back Side 10mm	0.199	0.183	0.108	0.490
	Ant.1	Left Edge 10mm	0.000	0.070	0.066	0.136
	Ant.1	Right Edge 10mm	0.173	0.000	0.000	0.173
	Ant.1	Top Edge 10mm	0.139	0.091	0.073	0.303
LTE B13	Ant.0	Front Side 10mm	0.155	0.064	0.073	0.292
	Ant.0	Back Side 10mm	0.253	0.183	0.108	0.545
	Ant.0	Left Edge 10mm	0.132	0.070	0.066	0.268
	Ant.0	Right Edge 10mm	0.221	0.000	0.000	0.221
	Ant.0	Top Edge 10mm	0.000	0.091	0.073	0.164
	Ant.0	Bottom Edge 10mm	0.183	0.000	0.000	0.183
LTE B17	Ant.1	Front Side 10mm	0.111	0.064	0.073	0.248
	Ant.1	Back Side 10mm	0.170	0.183	0.108	0.461
	Ant.1	Left Edge 10mm	0.000	0.070	0.066	0.136
	Ant.1	Right Edge 10mm	0.151	0.000	0.000	0.151
	Ant.1	Top Edge 10mm	0.096	0.091	0.073	0.260
LTE B17	Ant.0	Front Side 10mm	0.133	0.064	0.073	0.270
	Ant.0	Back Side 10mm	0.173	0.183	0.108	0.464
	Ant.0	Left Edge 10mm	0.129	0.070	0.066	0.264
	Ant.0	Right Edge 10mm	0.163	0.000	0.000	0.163
	Ant.0	Top Edge 10mm	0.000	0.091	0.073	0.164
	Ant.0	Bottom Edge 10mm	0.100	0.000	0.000	0.100
LTE B26	Ant.1	Front Side 10mm	0.184	0.064	0.073	0.321
	Ant.1	Back Side 10mm	0.214	0.183	0.108	0.506
	Ant.1	Left Edge 10mm	0.000	0.070	0.066	0.136
	Ant.1	Right Edge 10mm	0.114	0.000	0.000	0.114
	Ant.1	Top Edge 10mm	0.191	0.091	0.073	0.355
LTE B26	Ant.0	Front Side 10mm	0.112	0.064	0.073	0.249
	Ant.0	Back Side 10mm	0.169	0.183	0.108	0.460
	Ant.0	Left Edge 10mm	0.072	0.070	0.066	0.208
	Ant.0	Right Edge 10mm	0.090	0.000	0.000	0.090
	Ant.0	Top Edge 10mm	0.000	0.091	0.073	0.164
	Ant.0	Bottom Edge 10mm	0.118	0.000	0.000	0.118
LTE B66	Ant.1	Front Side 10mm	0.265	0.064	0.073	0.402
	Ant.1	Back Side 10mm	0.288	0.183	0.108	0.579
	Ant.1	Left Edge 10mm	0.000	0.070	0.066	0.136
	Ant.1	Right Edge 10mm	0.066	0.000	0.000	0.066
	Ant.1	Top Edge 10mm	0.459	0.091	0.073	0.623
LTE B66	Ant.0	Front Side 10mm	0.190	0.064	0.073	0.327
	Ant.0	Back Side 10mm	0.281	0.183	0.108	0.572
	Ant.0	Left Edge 10mm	0.065	0.070	0.066	0.201
	Ant.0	Right Edge 10mm	0.043	0.000	0.000	0.043
	Ant.0	Top Edge 10mm	0.000	0.091	0.073	0.164
	Ant.0	Bottom Edge 10mm	0.468	0.000	0.000	0.468
LTE B38	Ant.1	Front Side 10mm	0.142	0.064	0.073	0.279
	Ant.1	Back Side 10mm	0.459	0.183	0.108	0.750

	Ant.1	Left Edge 10mm	0.000	0.070	0.066	0.136
	Ant.1	Right Edge 10mm	0.104	0.000	0.000	0.104
	Ant.1	Top Edge 10mm	0.477	0.091	0.073	0.641
LTE B38	Ant.0	Front Side 10mm	0.183	0.064	0.073	0.320
	Ant.0	Back Side 10mm	0.218	0.183	0.108	0.509
	Ant.0	Left Edge 10mm	0.084	0.070	0.066	0.220
	Ant.0	Right Edge 10mm	0.030	0.000	0.000	0.030
	Ant.0	Top Edge 10mm	0.000	0.091	0.073	0.164
	Ant.0	Bottom Edge 10mm	0.118	0.000	0.000	0.118
	LTE B41	Ant.1	Front Side 10mm	0.177	0.064	0.073
Ant.1		Back Side 10mm	0.486	0.183	0.108	0.778
Ant.1		Left Edge 10mm	0.000	0.070	0.066	0.136
Ant.1		Right Edge 10mm	0.121	0.000	0.000	0.121
Ant.1		Top Edge 10mm	0.820	0.091	0.073	0.984
LTE B41	Ant.0	Front Side 10mm	0.236	0.064	0.073	0.373
	Ant.0	Back Side 10mm	0.310	0.183	0.108	0.601
	Ant.0	Left Edge 10mm	0.114	0.070	0.066	0.250
	Ant.0	Right Edge 10mm	0.036	0.000	0.000	0.036
	Ant.0	Top Edge 10mm	0.000	0.091	0.073	0.164
	Ant.0	Bottom Edge 10mm	0.141	0.000	0.000	0.141
5G N5	Ant.1	Front Side 10mm	0.160	0.064	0.073	0.297
	Ant.1	Back Side 10mm	0.197	0.183	0.108	0.488
	Ant.1	Left Edge 10mm	0.000	0.070	0.066	0.136
	Ant.1	Right Edge 10mm	0.114	0.000	0.000	0.114
	Ant.1	Top Edge 10mm	0.171	0.091	0.073	0.336
5G N5	Ant.0	Front Side 10mm	0.065	0.064	0.073	0.201
	Ant.0	Back Side 10mm	0.168	0.183	0.108	0.460
	Ant.0	Left Edge 10mm	0.073	0.070	0.066	0.209
	Ant.0	Right Edge 10mm	0.118	0.000	0.000	0.118
	Ant.0	Top Edge 10mm	0.000	0.091	0.073	0.164
	Ant.0	Bottom Edge 10mm	0.130	0.000	0.000	0.130
5G N7	Ant.1	Front Side 10mm	0.183	0.064	0.073	0.319
	Ant.1	Back Side 10mm	0.413	0.183	0.108	0.705
	Ant.1	Left Edge 10mm	0.000	0.070	0.066	0.136
	Ant.1	Right Edge 10mm	0.118	0.000	0.000	0.118
	Ant.1	Top Edge 10mm	0.558	0.091	0.073	0.722
5G N7	Ant.0	Front Side 10mm	0.198	0.064	0.073	0.335
	Ant.0	Back Side 10mm	0.274	0.183	0.108	0.565
	Ant.0	Left Edge 10mm	0.116	0.070	0.066	0.252
	Ant.0	Right Edge 10mm	0.023	0.000	0.000	0.023
	Ant.0	Top Edge 10mm	0.000	0.091	0.073	0.164
	Ant.0	Bottom Edge 10mm	0.175	0.000	0.000	0.175
5G N38	Ant.1	Front Side 10mm	0.251	0.064	0.073	0.388
	Ant.1	Back Side 10mm	0.728	0.183	0.108	1.019
	Ant.1	Left Edge 10mm	0.000	0.070	0.066	0.136

	Ant.1	Right Edge 10mm	0.188	0.000	0.000	0.188
	Ant.1	Top Edge 10mm	0.877	0.091	0.073	1.042
5G N38	Ant.0	Front Side 10mm	0.337	0.064	0.073	0.474
	Ant.0	Back Side 10mm	0.491	0.183	0.108	0.782
	Ant.0	Left Edge 10mm	0.159	0.070	0.066	0.295
	Ant.0	Right Edge 10mm	0.051	0.000	0.000	0.051
	Ant.0	Top Edge 10mm	0.000	0.091	0.073	0.164
	Ant.0	Bottom Edge 10mm	0.222	0.000	0.000	0.222
	5G N41	Ant.1	Front Side 10mm	0.143	0.064	0.073
Ant.1		Back Side 10mm	0.387	0.183	0.108	0.678
Ant.1		Left Edge 10mm	0.391	0.070	0.066	0.527
Ant.1		Right Edge 10mm	0.000	0.000	0.000	0.000
Ant.1		Top Edge 10mm	0.638	0.091	0.073	0.803
5G N41	Ant.0	Front Side 10mm	0.269	0.064	0.073	0.406
	Ant.0	Back Side 10mm	0.411	0.183	0.108	0.703
	Ant.0	Left Edge 10mm	0.109	0.070	0.066	0.245
	Ant.0	Right Edge 10mm	0.038	0.000	0.000	0.038
	Ant.0	Top Edge 10mm	0.000	0.091	0.073	0.164
	Ant.0	Bottom Edge 10mm	0.202	0.000	0.000	0.202
5G N66	Ant.1	Front Side 10mm	0.316	0.064	0.073	0.453
	Ant.1	Back Side 10mm	0.346	0.183	0.108	0.637
	Ant.1	Left Edge 10mm	0.330	0.070	0.066	0.466
	Ant.1	Right Edge 10mm	0.000	0.000	0.000	0.000
	Ant.1	Top Edge 10mm	0.534	0.091	0.073	0.698
5G N66	Ant.0	Front Side 10mm	0.287	0.064	0.073	0.424
	Ant.0	Back Side 10mm	0.378	0.183	0.108	0.670
	Ant.0	Left Edge 10mm	0.081	0.070	0.066	0.217
	Ant.0	Right Edge 10mm	0.053	0.000	0.000	0.053
	Ant.0	Top Edge 10mm	0.000	0.091	0.073	0.164
	Ant.0	Bottom Edge 10mm	0.659	0.000	0.000	0.659

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

### 12.2.8 Hotspot Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN5G and Bluetooth

Band	Antenna	Position	Stand alone SAR			SUM SAR
			1	2	4	Sum SAR (1+2+3)
			WWAN (State19)	5G WIFI (Level7)	Bluetooth	
GSM850	Ant.1	Front Side 10mm	0.207	0.099	0.073	0.379
	Ant.1	Back Side 10mm	0.324	0.149	0.108	0.581
	Ant.1	Left Edge 10mm	0.000	0.128	0.066	0.194

	Ant.1	Right Edge 10mm	0.133	0.000	0.000	0.133
	Ant.1	Top Edge 10mm	0.216	0.216	0.073	0.505
GSM850	Ant.0	Front Side 10mm	0.139	0.099	0.073	0.311
	Ant.0	Back Side 10mm	0.171	0.149	0.108	0.428
	Ant.0	Left Edge 10mm	0.079	0.128	0.066	0.273
	Ant.0	Right Edge 10mm	0.120	0.000	0.000	0.120
	Ant.0	Top Edge 10mm	0.000	0.216	0.073	0.289
	Ant.0	Bottom Edge 10mm	0.207	0.000	0.000	0.207
	GSM 1900	Ant.1	Front Side 10mm	0.525	0.099	0.073
Ant.1		Back Side 10mm	0.651	0.149	0.108	0.908
Ant.1		Left Edge 10mm	0.000	0.128	0.066	0.194
Ant.1		Right Edge 10mm	0.139	0.000	0.000	0.139
Ant.1		Top Edge 10mm	0.882	0.216	0.073	<b>1.171</b>
GSM 1900	Ant.0	Front Side 10mm	0.267	0.099	0.073	0.439
	Ant.0	Back Side 10mm	0.458	0.149	0.108	0.715
	Ant.0	Left Edge 10mm	0.125	0.128	0.066	0.318
	Ant.0	Right Edge 10mm	0.084	0.000	0.000	0.084
	Ant.0	Top Edge 10mm	0.000	0.216	0.073	0.289
	Ant.0	Bottom Edge 10mm	0.599	0.000	0.000	0.599
WCDMA B2	Ant.1	Front Side 10mm	0.289	0.099	0.073	0.461
	Ant.1	Back Side 10mm	0.339	0.149	0.108	0.596
	Ant.1	Left Edge 10mm	0.000	0.128	0.066	0.194
	Ant.1	Right Edge 10mm	0.072	0.000	0.000	0.072
	Ant.1	Top Edge 10mm	0.539	0.216	0.073	0.828
WCDMA B2	Ant.0	Front Side 10mm	0.269	0.099	0.073	0.441
	Ant.0	Back Side 10mm	0.468	0.149	0.108	0.725
	Ant.0	Left Edge 10mm	0.103	0.128	0.066	0.297
	Ant.0	Right Edge 10mm	0.067	0.000	0.000	0.067
	Ant.0	Top Edge 10mm	0.000	0.216	0.073	0.289
	Ant.0	Bottom Edge 10mm	0.618	0.000	0.000	0.618
WCDMA B4	Ant.1	Front Side 10mm	0.295	0.099	0.073	0.467
	Ant.1	Back Side 10mm	0.322	0.149	0.108	0.579
	Ant.1	Left Edge 10mm	0.000	0.128	0.066	0.194
	Ant.1	Right Edge 10mm	0.069	0.000	0.000	0.069
	Ant.1	Top Edge 10mm	0.502	0.216	0.073	0.791
WCDMA B4	Ant.0	Front Side 10mm	0.282	0.099	0.073	0.453
	Ant.0	Back Side 10mm	0.428	0.149	0.108	0.685
	Ant.0	Left Edge 10mm	0.094	0.128	0.066	0.288
	Ant.0	Right Edge 10mm	0.055	0.000	0.000	0.055
	Ant.0	Top Edge 10mm	0.000	0.216	0.073	0.289
	Ant.0	Bottom Edge 10mm	0.740	0.000	0.000	0.740
WCDMA B5	Ant.1	Front Side 10mm	0.229	0.099	0.073	0.401
	Ant.1	Back Side 10mm	0.319	0.149	0.108	0.575
	Ant.1	Left Edge 10mm	0.000	0.128	0.066	0.194
	Ant.1	Right Edge 10mm	0.151	0.000	0.000	0.151

	Ant.1	Top Edge 10mm	0.293	0.216	0.073	0.582
WCDMA B5	Ant.0	Front Side 10mm	0.144	0.099	0.073	0.316
	Ant.0	Back Side 10mm	0.192	0.149	0.108	0.449
	Ant.0	Left Edge 10mm	0.089	0.128	0.066	0.283
	Ant.0	Right Edge 10mm	0.132	0.000	0.000	0.132
	Ant.0	Top Edge 10mm	0.000	0.216	0.073	0.289
	Ant.0	Bottom Edge 10mm	0.186	0.000	0.000	0.186
LTE B2	Ant.1	Front Side 10mm	0.171	0.099	0.073	0.342
	Ant.1	Back Side 10mm	0.192	0.149	0.108	0.449
	Ant.1	Left Edge 10mm	0.035	0.128	0.066	0.229
	Ant.1	Right Edge 10mm	0.000	0.000	0.000	0.000
	Ant.1	Top Edge 10mm	0.316	0.216	0.073	0.605
LTE B2	Ant.0	Front Side 10mm	0.182	0.099	0.073	0.354
	Ant.0	Back Side 10mm	0.323	0.149	0.108	0.579
	Ant.0	Left Edge 10mm	0.088	0.128	0.066	0.282
	Ant.0	Right Edge 10mm	0.056	0.000	0.000	0.056
	Ant.0	Top Edge 10mm	0.000	0.216	0.073	0.289
	Ant.0	Bottom Edge 10mm	0.419	0.000	0.000	0.419
LTE B4	Ant.1	Front Side 10mm	0.180	0.099	0.073	0.352
	Ant.1	Back Side 10mm	0.149	0.149	0.108	0.406
	Ant.1	Left Edge 10mm	0.034	0.128	0.066	0.227
	Ant.1	Right Edge 10mm	0.000	0.000	0.000	0.000
	Ant.1	Top Edge 10mm	0.317	0.216	0.073	0.606
LTE B4	Ant.0	Front Side 10mm	0.187	0.099	0.073	0.358
	Ant.0	Back Side 10mm	0.285	0.149	0.108	0.541
	Ant.0	Left Edge 10mm	0.075	0.128	0.066	0.269
	Ant.0	Right Edge 10mm	0.041	0.000	0.000	0.041
	Ant.0	Top Edge 10mm	0.000	0.216	0.073	0.289
	Ant.0	Bottom Edge 10mm	0.506	0.000	0.000	0.506
LTE B5	Ant.1	Front Side 10mm	0.175	0.099	0.073	0.347
	Ant.1	Back Side 10mm	0.216	0.149	0.108	0.473
	Ant.1	Left Edge 10mm	0.000	0.128	0.066	0.194
	Ant.1	Right Edge 10mm	0.189	0.000	0.000	0.189
	Ant.1	Top Edge 10mm	0.210	0.216	0.073	0.499
LTE B5	Ant.0	Front Side 10mm	0.145	0.099	0.073	0.317
	Ant.0	Back Side 10mm	0.205	0.149	0.108	0.462
	Ant.0	Left Edge 10mm	0.090	0.128	0.066	0.284
	Ant.0	Right Edge 10mm	0.120	0.000	0.000	0.120
	Ant.0	Top Edge 10mm	0.000	0.216	0.073	0.289
	Ant.0	Bottom Edge 10mm	0.149	0.000	0.000	0.149
LTE B7	Ant.1	Front Side 10mm	0.158	0.099	0.073	0.329
	Ant.1	Back Side 10mm	0.399	0.149	0.108	0.656
	Ant.1	Left Edge 10mm	0.000	0.128	0.066	0.194
	Ant.1	Right Edge 10mm	0.060	0.000	0.000	0.060
	Ant.1	Top Edge 10mm	0.510	0.216	0.073	0.799

LTE B7	Ant.0	Front Side 10mm	0.206	0.099	0.073	0.377
	Ant.0	Back Side 10mm	0.286	0.149	0.108	0.543
	Ant.0	Left Edge 10mm	0.123	0.128	0.066	0.316
	Ant.0	Right Edge 10mm	0.024	0.000	0.000	0.024
	Ant.0	Top Edge 10mm	0.000	0.216	0.073	0.289
	Ant.0	Bottom Edge 10mm	0.171	0.000	0.000	0.171
LTE B12	Ant.1	Front Side 10mm	0.112	0.099	0.073	0.284
	Ant.1	Back Side 10mm	0.147	0.149	0.108	0.404
	Ant.1	Left Edge 10mm	0.000	0.128	0.066	0.194
	Ant.1	Right Edge 10mm	0.159	0.000	0.000	0.159
	Ant.1	Top Edge 10mm	0.110	0.216	0.073	0.399
LTE B12	Ant.0	Front Side 10mm	0.135	0.099	0.073	0.306
	Ant.0	Back Side 10mm	0.173	0.149	0.108	0.430
	Ant.0	Left Edge 10mm	0.131	0.128	0.066	0.324
	Ant.0	Right Edge 10mm	0.159	0.000	0.000	0.159
	Ant.0	Top Edge 10mm	0.000	0.216	0.073	0.289
	Ant.0	Bottom Edge 10mm	0.113	0.000	0.000	0.113
LTE B13	Ant.1	Front Side 10mm	0.142	0.099	0.073	0.313
	Ant.1	Back Side 10mm	0.199	0.149	0.108	0.456
	Ant.1	Left Edge 10mm	0.000	0.128	0.066	0.194
	Ant.1	Right Edge 10mm	0.173	0.000	0.000	0.173
	Ant.1	Top Edge 10mm	0.139	0.216	0.073	0.428
LTE B13	Ant.0	Front Side 10mm	0.155	0.099	0.073	0.327
	Ant.0	Back Side 10mm	0.253	0.149	0.108	0.510
	Ant.0	Left Edge 10mm	0.132	0.128	0.066	0.326
	Ant.0	Right Edge 10mm	0.221	0.000	0.000	0.221
	Ant.0	Top Edge 10mm	0.000	0.216	0.073	0.289
	Ant.0	Bottom Edge 10mm	0.183	0.000	0.000	0.183
LTE B17	Ant.1	Front Side 10mm	0.111	0.099	0.073	0.283
	Ant.1	Back Side 10mm	0.170	0.149	0.108	0.427
	Ant.1	Left Edge 10mm	0.000	0.128	0.066	0.194
	Ant.1	Right Edge 10mm	0.151	0.000	0.000	0.151
	Ant.1	Top Edge 10mm	0.096	0.216	0.073	0.385
LTE B17	Ant.0	Front Side 10mm	0.133	0.099	0.073	0.305
	Ant.0	Back Side 10mm	0.173	0.149	0.108	0.430
	Ant.0	Left Edge 10mm	0.129	0.128	0.066	0.322
	Ant.0	Right Edge 10mm	0.163	0.000	0.000	0.163
	Ant.0	Top Edge 10mm	0.000	0.216	0.073	0.289
	Ant.0	Bottom Edge 10mm	0.100	0.000	0.000	0.100
LTE B26	Ant.1	Front Side 10mm	0.209	0.099	0.073	0.381
	Ant.1	Back Side 10mm	0.244	0.149	0.108	0.501
	Ant.1	Left Edge 10mm	0.000	0.128	0.066	0.194
	Ant.1	Right Edge 10mm	0.129	0.000	0.000	0.129
	Ant.1	Top Edge 10mm	0.216	0.216	0.073	0.505
LTE B26	Ant.0	Front Side 10mm	0.184	0.099	0.073	0.356

	Ant.0	Back Side 10mm	0.214	0.149	0.108	0.471
	Ant.0	Left Edge 10mm	0.000	0.128	0.066	0.194
	Ant.0	Right Edge 10mm	0.114	0.000	0.000	0.114
	Ant.0	Top Edge 10mm	0.191	0.216	0.073	0.480
	Ant.0	Bottom Edge 10mm	0.118	0.000	0.000	0.118
LTE B66	Ant.1	Front Side 10mm	0.204	0.099	0.073	0.375
	Ant.1	Back Side 10mm	0.226	0.149	0.108	0.483
	Ant.1	Left Edge 10mm	0.000	0.128	0.066	0.194
	Ant.1	Right Edge 10mm	0.053	0.000	0.000	0.053
	Ant.1	Top Edge 10mm	0.373	0.216	0.073	0.662
LTE B66	Ant.0	Front Side 10mm	0.190	0.099	0.073	0.361
	Ant.0	Back Side 10mm	0.281	0.149	0.108	0.537
	Ant.0	Left Edge 10mm	0.065	0.128	0.066	0.259
	Ant.0	Right Edge 10mm	0.043	0.000	0.000	0.043
	Ant.0	Top Edge 10mm	0.000	0.216	0.073	0.289
LTE B38	Ant.0	Bottom Edge 10mm	0.468	0.000	0.000	0.468
	Ant.1	Front Side 10mm	0.142	0.099	0.073	0.313
	Ant.1	Back Side 10mm	0.459	0.149	0.108	0.715
	Ant.1	Left Edge 10mm	0.000	0.128	0.066	0.194
	Ant.1	Right Edge 10mm	0.104	0.000	0.000	0.104
LTE B38	Ant.1	Top Edge 10mm	0.477	0.216	0.073	0.766
	Ant.0	Front Side 10mm	0.162	0.099	0.073	0.334
	Ant.0	Back Side 10mm	0.201	0.149	0.108	0.458
	Ant.0	Left Edge 10mm	0.076	0.128	0.066	0.269
	Ant.0	Right Edge 10mm	0.027	0.000	0.000	0.027
LTE B41	Ant.0	Top Edge 10mm	0.000	0.216	0.073	0.289
	Ant.0	Bottom Edge 10mm	0.100	0.000	0.000	0.100
	Ant.1	Front Side 10mm	0.177	0.099	0.073	0.348
	Ant.1	Back Side 10mm	0.486	0.149	0.108	0.743
	Ant.1	Left Edge 10mm	0.000	0.128	0.066	0.194
LTE B41	Ant.1	Right Edge 10mm	0.121	0.000	0.000	0.121
	Ant.1	Top Edge 10mm	0.820	0.216	0.073	1.109
	Ant.0	Front Side 10mm	0.216	0.099	0.073	0.387
	Ant.0	Back Side 10mm	0.287	0.149	0.108	0.544
	Ant.0	Left Edge 10mm	0.117	0.128	0.066	0.311
LTE B41	Ant.0	Right Edge 10mm	0.039	0.000	0.000	0.039
	Ant.0	Top Edge 10mm	0.000	0.216	0.073	0.289
	Ant.0	Bottom Edge 10mm	0.137	0.000	0.000	0.137
	Ant.1	Front Side 10mm	0.160	0.099	0.073	0.331
	Ant.1	Back Side 10mm	0.197	0.149	0.108	0.454
5G N5	Ant.1	Left Edge 10mm	0.000	0.128	0.066	0.194
	Ant.1	Right Edge 10mm	0.114	0.000	0.000	0.114
	Ant.1	Top Edge 10mm	0.171	0.216	0.073	0.461
	Ant.0	Front Side 10mm	0.065	0.099	0.073	0.236
	Ant.0	Back Side 10mm	0.168	0.149	0.108	0.425



	Ant.0	Left Edge 10mm	0.073	0.128	0.066	0.266
	Ant.0	Right Edge 10mm	0.118	0.000	0.000	0.118
	Ant.0	Top Edge 10mm	0.000	0.216	0.073	0.289
	Ant.0	Bottom Edge 10mm	0.130	0.000	0.000	0.130
5G N7	Ant.1	Front Side 10mm	0.183	0.099	0.073	0.354
	Ant.1	Back Side 10mm	0.413	0.149	0.108	0.670
	Ant.1	Left Edge 10mm	0.000	0.128	0.066	0.194
	Ant.1	Right Edge 10mm	0.118	0.000	0.000	0.118
	Ant.1	Top Edge 10mm	0.558	0.216	0.073	0.847
5G N7	Ant.0	Front Side 10mm	0.198	0.099	0.073	0.370
	Ant.0	Back Side 10mm	0.274	0.149	0.108	0.531
	Ant.0	Left Edge 10mm	0.116	0.128	0.066	0.309
	Ant.0	Right Edge 10mm	0.023	0.000	0.000	0.023
	Ant.0	Top Edge 10mm	0.000	0.216	0.073	0.289
	Ant.0	Bottom Edge 10mm	0.175	0.000	0.000	0.175
5G N38	Ant.1	Front Side 10mm	0.251	0.099	0.073	0.422
	Ant.1	Back Side 10mm	0.728	0.149	0.108	0.985
	Ant.1	Left Edge 10mm	0.000	0.128	0.066	0.194
	Ant.1	Right Edge 10mm	0.188	0.000	0.000	0.188
	Ant.1	Top Edge 10mm	0.877	0.216	0.073	1.166
5G N38	Ant.0	Front Side 10mm	0.337	0.099	0.073	0.508
	Ant.0	Back Side 10mm	0.491	0.149	0.108	0.748
	Ant.0	Left Edge 10mm	0.159	0.128	0.066	0.353
	Ant.0	Right Edge 10mm	0.051	0.000	0.000	0.051
	Ant.0	Top Edge 10mm	0.000	0.216	0.073	0.289
	Ant.0	Bottom Edge 10mm	0.222	0.000	0.000	0.222
5G N41	Ant.1	Front Side 10mm	0.143	0.099	0.073	0.314
	Ant.1	Back Side 10mm	0.387	0.149	0.108	0.644
	Ant.1	Left Edge 10mm	0.391	0.128	0.066	0.585
	Ant.1	Right Edge 10mm	0.000	0.000	0.000	0.000
	Ant.1	Top Edge 10mm	0.638	0.216	0.073	0.928
5G N41	Ant.0	Front Side 10mm	0.269	0.099	0.073	0.440
	Ant.0	Back Side 10mm	0.411	0.149	0.108	0.668
	Ant.0	Left Edge 10mm	0.109	0.128	0.066	0.303
	Ant.0	Right Edge 10mm	0.038	0.000	0.000	0.038
	Ant.0	Top Edge 10mm	0.000	0.216	0.073	0.289
	Ant.0	Bottom Edge 10mm	0.202	0.000	0.000	0.202
5G N66	Ant.1	Front Side 10mm	0.316	0.099	0.073	0.488
	Ant.1	Back Side 10mm	0.346	0.149	0.108	0.603
	Ant.1	Left Edge 10mm	0.330	0.128	0.066	0.523
	Ant.1	Right Edge 10mm	0.000	0.000	0.000	0.000
	Ant.1	Top Edge 10mm	0.534	0.216	0.073	0.823
5G N66	Ant.0	Front Side 10mm	0.287	0.099	0.073	0.459
	Ant.0	Back Side 10mm	0.378	0.149	0.108	0.635
	Ant.0	Left Edge 10mm	0.081	0.128	0.066	0.274

	Ant.0	Right Edge 10mm	0.053	0.000	0.000	0.053
	Ant.0	Top Edge 10mm	0.000	0.216	0.073	0.289
	Ant.0	Bottom Edge 10mm	0.659	0.000	0.000	0.659

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

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

Band	Antenna	Position	Stand alone SAR				SUM SAR
			1	2	3	4	
			WWAN (State19)	2.4G WIFI (Level8)	5G WIFI (Level8)	Bluetooth	Sum SAR (1+2+3+4)
GSM850	Ant.1	Front Side 10mm	0.207	0.051	0.073	0.073	0.404
	Ant.1	Back Side 10mm	0.324	0.157	0.111	0.108	0.700
	Ant.1	Left Edge 10mm	0.000	0.060	0.090	0.066	0.216
	Ant.1	Right Edge 10mm	0.133	0.000	0.000	0.000	0.133
	Ant.1	Top Edge 10mm	0.216	0.075	0.156	0.073	0.520
GSM850	Ant.0	Front Side 10mm	0.139	0.051	0.073	0.073	0.337
	Ant.0	Back Side 10mm	0.171	0.157	0.111	0.108	0.547
	Ant.0	Left Edge 10mm	0.079	0.060	0.090	0.066	0.295
	Ant.0	Right Edge 10mm	0.120	0.000	0.000	0.000	0.120
	Ant.0	Top Edge 10mm	0.000	0.075	0.156	0.073	0.304
	Ant.0	Bottom Edge 10mm	0.207	0.000	0.000	0.000	0.207
GSM 1900	Ant.1	Front Side 10mm	0.159	0.051	0.073	0.073	0.356
	Ant.1	Back Side 10mm	0.207	0.157	0.111	0.108	0.583
	Ant.1	Left Edge 10mm	0.000	0.060	0.090	0.066	0.216
	Ant.1	Right Edge 10mm	0.045	0.000	0.000	0.000	0.045
	Ant.1	Top Edge 10mm	0.276	0.075	0.156	0.073	0.580
GSM 1900	Ant.0	Front Side 10mm	0.178	0.051	0.073	0.073	0.375
	Ant.0	Back Side 10mm	0.312	0.157	0.111	0.108	0.688
	Ant.0	Left Edge 10mm	0.088	0.060	0.090	0.066	0.304
	Ant.0	Right Edge 10mm	0.060	0.000	0.000	0.000	0.060
	Ant.0	Top Edge 10mm	0.000	0.075	0.156	0.073	0.304
	Ant.0	Bottom Edge 10mm	0.419	0.000	0.000	0.000	0.419
WCDMA B2	Ant.1	Front Side 10mm	0.289	0.051	0.073	0.073	0.486
	Ant.1	Back Side 10mm	0.339	0.157	0.111	0.108	0.715
	Ant.1	Left Edge 10mm	0.000	0.060	0.090	0.066	0.216
	Ant.1	Right Edge 10mm	0.072	0.000	0.000	0.000	0.072
	Ant.1	Top Edge 10mm	0.539	0.075	0.156	0.073	0.843
WCDMA B2	Ant.0	Front Side 10mm	0.269	0.051	0.073	0.073	0.466
	Ant.0	Back Side 10mm	0.468	0.157	0.111	0.108	0.843
	Ant.0	Left Edge 10mm	0.103	0.060	0.090	0.066	0.319

	Ant.0	Right Edge 10mm	0.067	0.000	0.000	0.000	0.067
	Ant.0	Top Edge 10mm	0.000	0.075	0.156	0.073	0.304
	Ant.0	Bottom Edge 10mm	0.618	0.000	0.000	0.000	0.618
WCDMA B4	Ant.1	Front Side 10mm	0.295	0.051	0.073	0.073	0.492
	Ant.1	Back Side 10mm	0.322	0.157	0.111	0.108	0.698
	Ant.1	Left Edge 10mm	0.000	0.060	0.090	0.066	0.216
	Ant.1	Right Edge 10mm	0.069	0.000	0.000	0.000	0.069
	Ant.1	Top Edge 10mm	0.502	0.075	0.156	0.073	0.806
WCDMA B4	Ant.0	Front Side 10mm	0.282	0.051	0.073	0.073	0.479
	Ant.0	Back Side 10mm	0.428	0.157	0.111	0.108	0.804
	Ant.0	Left Edge 10mm	0.094	0.060	0.090	0.066	0.310
	Ant.0	Right Edge 10mm	0.055	0.000	0.000	0.000	0.055
	Ant.0	Top Edge 10mm	0.000	0.075	0.156	0.073	0.304
	Ant.0	Bottom Edge 10mm	0.740	0.000	0.000	0.000	0.740
WCDMA B5	Ant.1	Front Side 10mm	0.229	0.051	0.073	0.073	0.426
	Ant.1	Back Side 10mm	0.319	0.157	0.111	0.108	0.694
	Ant.1	Left Edge 10mm	0.000	0.060	0.090	0.066	0.216
	Ant.1	Right Edge 10mm	0.151	0.000	0.000	0.000	0.151
	Ant.1	Top Edge 10mm	0.293	0.075	0.156	0.073	0.597
WCDMA B5	Ant.0	Front Side 10mm	0.144	0.051	0.073	0.073	0.341
	Ant.0	Back Side 10mm	0.192	0.157	0.111	0.108	0.567
	Ant.0	Left Edge 10mm	0.089	0.060	0.090	0.066	0.305
	Ant.0	Right Edge 10mm	0.132	0.000	0.000	0.000	0.132
	Ant.0	Top Edge 10mm	0.000	0.075	0.156	0.073	0.304
	Ant.0	Bottom Edge 10mm	0.186	0.000	0.000	0.000	0.186
LTE B2	Ant.1	Front Side 10mm	0.171	0.051	0.073	0.073	0.368
	Ant.1	Back Side 10mm	0.192	0.157	0.111	0.108	0.568
	Ant.1	Left Edge 10mm	0.035	0.060	0.090	0.066	0.251
	Ant.1	Right Edge 10mm	0.000	0.000	0.000	0.000	0.000
	Ant.1	Top Edge 10mm	0.316	0.075	0.156	0.073	0.620
LTE B2	Ant.0	Front Side 10mm	0.182	0.051	0.073	0.073	0.379
	Ant.0	Back Side 10mm	0.323	0.157	0.111	0.108	0.698
	Ant.0	Left Edge 10mm	0.088	0.060	0.090	0.066	0.304
	Ant.0	Right Edge 10mm	0.056	0.000	0.000	0.000	0.056
	Ant.0	Top Edge 10mm	0.000	0.075	0.156	0.073	0.304
	Ant.0	Bottom Edge 10mm	0.419	0.000	0.000	0.000	0.419
LTE B4	Ant.1	Front Side 10mm	0.180	0.051	0.073	0.073	0.377
	Ant.1	Back Side 10mm	0.149	0.157	0.111	0.108	0.525
	Ant.1	Left Edge 10mm	0.034	0.060	0.090	0.066	0.250
	Ant.1	Right Edge 10mm	0.000	0.000	0.000	0.000	0.000
	Ant.1	Top Edge 10mm	0.317	0.075	0.156	0.073	0.621
LTE B4	Ant.0	Front Side 10mm	0.187	0.051	0.073	0.073	0.384
	Ant.0	Back Side 10mm	0.285	0.157	0.111	0.108	0.660
	Ant.0	Left Edge 10mm	0.075	0.060	0.090	0.066	0.291
	Ant.0	Right Edge 10mm	0.041	0.000	0.000	0.000	0.041

	Ant.0	Top Edge 10mm	0.000	0.075	0.156	0.073	0.304
	Ant.0	Bottom Edge 10mm	0.506	0.000	0.000	0.000	0.506
LTE B5	Ant.1	Front Side 10mm	0.175	0.051	0.073	0.073	0.373
	Ant.1	Back Side 10mm	0.216	0.157	0.111	0.108	0.592
	Ant.1	Left Edge 10mm	0.000	0.060	0.090	0.066	0.216
	Ant.1	Right Edge 10mm	0.189	0.000	0.000	0.000	0.189
	Ant.1	Top Edge 10mm	0.210	0.075	0.156	0.073	0.514
	Ant.0	Front Side 10mm	0.145	0.051	0.073	0.073	0.342
LTE B5	Ant.0	Back Side 10mm	0.205	0.157	0.111	0.108	0.581
	Ant.0	Left Edge 10mm	0.090	0.060	0.090	0.066	0.306
	Ant.0	Right Edge 10mm	0.120	0.000	0.000	0.000	0.120
	Ant.0	Top Edge 10mm	0.000	0.075	0.156	0.073	0.304
	Ant.0	Bottom Edge 10mm	0.149	0.000	0.000	0.000	0.149
	LTE B7	Ant.1	Front Side 10mm	0.179	0.051	0.073	0.073
Ant.1		Back Side 10mm	0.453	0.157	0.111	0.108	0.829
Ant.1		Left Edge 10mm	0.000	0.060	0.090	0.066	0.216
Ant.1		Right Edge 10mm	0.067	0.000	0.000	0.000	0.067
Ant.1		Top Edge 10mm	0.569	0.075	0.156	0.073	0.873
LTE B7		Ant.0	Front Side 10mm	0.206	0.051	0.073	0.073
	Ant.0	Back Side 10mm	0.286	0.157	0.111	0.108	0.661
	Ant.0	Left Edge 10mm	0.123	0.060	0.090	0.066	0.339
	Ant.0	Right Edge 10mm	0.024	0.000	0.000	0.000	0.024
	Ant.0	Top Edge 10mm	0.000	0.075	0.156	0.073	0.304
	Ant.0	Bottom Edge 10mm	0.171	0.000	0.000	0.000	0.171
LTE B12	Ant.1	Front Side 10mm	0.112	0.051	0.073	0.073	0.310
	Ant.1	Back Side 10mm	0.147	0.157	0.111	0.108	0.523
	Ant.1	Left Edge 10mm	0.000	0.060	0.090	0.066	0.216
	Ant.1	Right Edge 10mm	0.159	0.000	0.000	0.000	0.159
	Ant.1	Top Edge 10mm	0.110	0.075	0.156	0.073	0.414
LTE B12	Ant.0	Front Side 10mm	0.135	0.051	0.073	0.073	0.332
	Ant.0	Back Side 10mm	0.173	0.157	0.111	0.108	0.549
	Ant.0	Left Edge 10mm	0.131	0.060	0.090	0.066	0.347
	Ant.0	Right Edge 10mm	0.159	0.000	0.000	0.000	0.159
	Ant.0	Top Edge 10mm	0.000	0.075	0.156	0.073	0.304
	Ant.0	Bottom Edge 10mm	0.113	0.000	0.000	0.000	0.113
LTE B13	Ant.1	Front Side 10mm	0.142	0.051	0.073	0.073	0.339
	Ant.1	Back Side 10mm	0.199	0.157	0.111	0.108	0.574
	Ant.1	Left Edge 10mm	0.000	0.060	0.090	0.066	0.216
	Ant.1	Right Edge 10mm	0.173	0.000	0.000	0.000	0.173
	Ant.1	Top Edge 10mm	0.139	0.075	0.156	0.073	0.443
LTE B13	Ant.0	Front Side 10mm	0.155	0.051	0.073	0.073	0.353
	Ant.0	Back Side 10mm	0.253	0.157	0.111	0.108	0.629
	Ant.0	Left Edge 10mm	0.132	0.060	0.090	0.066	0.348
	Ant.0	Right Edge 10mm	0.221	0.000	0.000	0.000	0.221
	Ant.0	Top Edge 10mm	0.000	0.075	0.156	0.073	0.304

	Ant.0	Bottom Edge 10mm	0.183	0.000	0.000	0.000	0.183
LTE B17	Ant.1	Front Side 10mm	0.111	0.051	0.073	0.073	0.309
	Ant.1	Back Side 10mm	0.170	0.157	0.111	0.108	0.546
	Ant.1	Left Edge 10mm	0.000	0.060	0.090	0.066	0.216
	Ant.1	Right Edge 10mm	0.151	0.000	0.000	0.000	0.151
	Ant.1	Top Edge 10mm	0.096	0.075	0.156	0.073	0.400
	Ant.0	Bottom Edge 10mm	0.100	0.000	0.000	0.000	0.100
LTE B17	Ant.0	Front Side 10mm	0.133	0.051	0.073	0.073	0.331
	Ant.0	Back Side 10mm	0.173	0.157	0.111	0.108	0.549
	Ant.0	Left Edge 10mm	0.129	0.060	0.090	0.066	0.344
	Ant.0	Right Edge 10mm	0.163	0.000	0.000	0.000	0.163
	Ant.0	Top Edge 10mm	0.000	0.075	0.156	0.073	0.304
	Ant.0	Bottom Edge 10mm	0.100	0.000	0.000	0.000	0.100
LTE B26	Ant.1	Front Side 10mm	0.134	0.051	0.073	0.073	0.332
	Ant.1	Back Side 10mm	0.149	0.157	0.111	0.108	0.524
	Ant.1	Left Edge 10mm	0.000	0.060	0.090	0.066	0.216
	Ant.1	Right Edge 10mm	0.082	0.000	0.000	0.000	0.082
	Ant.1	Top Edge 10mm	0.136	0.075	0.156	0.073	0.440
LTE B26	Ant.0	Front Side 10mm	0.112	0.051	0.073	0.073	0.309
	Ant.0	Back Side 10mm	0.169	0.157	0.111	0.108	0.545
	Ant.0	Left Edge 10mm	0.072	0.060	0.090	0.066	0.288
	Ant.0	Right Edge 10mm	0.090	0.000	0.000	0.000	0.090
	Ant.0	Top Edge 10mm	0.000	0.075	0.156	0.073	0.304
	Ant.0	Bottom Edge 10mm	0.118	0.000	0.000	0.000	0.118
LTE B66	Ant.1	Front Side 10mm	0.204	0.051	0.073	0.073	0.401
	Ant.1	Back Side 10mm	0.226	0.157	0.111	0.108	0.602
	Ant.1	Left Edge 10mm	0.000	0.060	0.090	0.066	0.216
	Ant.1	Right Edge 10mm	0.053	0.000	0.000	0.000	0.053
	Ant.1	Top Edge 10mm	0.373	0.075	0.156	0.073	0.677
LTE B66	Ant.0	Front Side 10mm	0.190	0.051	0.073	0.073	0.387
	Ant.0	Back Side 10mm	0.281	0.157	0.111	0.108	0.656
	Ant.0	Left Edge 10mm	0.065	0.060	0.090	0.066	0.281
	Ant.0	Right Edge 10mm	0.043	0.000	0.000	0.000	0.043
	Ant.0	Top Edge 10mm	0.000	0.075	0.156	0.073	0.304
	Ant.0	Bottom Edge 10mm	0.468	0.000	0.000	0.000	0.468
LTE B38	Ant.1	Front Side 10mm	0.142	0.051	0.073	0.073	0.339
	Ant.1	Back Side 10mm	0.459	0.157	0.111	0.108	0.834
	Ant.1	Left Edge 10mm	0.000	0.060	0.090	0.066	0.216
	Ant.1	Right Edge 10mm	0.104	0.000	0.000	0.000	0.104
	Ant.1	Top Edge 10mm	0.477	0.075	0.156	0.073	0.781
LTE B38	Ant.0	Front Side 10mm	0.162	0.051	0.073	0.073	0.360
	Ant.0	Back Side 10mm	0.201	0.157	0.111	0.108	0.576
	Ant.0	Left Edge 10mm	0.076	0.060	0.090	0.066	0.291
	Ant.0	Right Edge 10mm	0.027	0.000	0.000	0.000	0.027
	Ant.0	Top Edge 10mm	0.000	0.075	0.156	0.073	0.304
	Ant.0	Bottom Edge 10mm	0.100	0.000	0.000	0.000	0.100

LTE B41	Ant.1	Front Side 10mm	0.177	0.051	0.073	0.073	0.374
	Ant.1	Back Side 10mm	0.486	0.157	0.111	0.108	0.862
	Ant.1	Left Edge 10mm	0.000	0.060	0.090	0.066	0.216
	Ant.1	Right Edge 10mm	0.121	0.000	0.000	0.000	0.121
	Ant.1	Top Edge 10mm	0.820	0.075	0.156	0.073	1.124
LTE B41	Ant.0	Front Side 10mm	0.216	0.051	0.073	0.073	0.413
	Ant.0	Back Side 10mm	0.287	0.157	0.111	0.108	0.663
	Ant.0	Left Edge 10mm	0.117	0.060	0.090	0.066	0.333
	Ant.0	Right Edge 10mm	0.039	0.000	0.000	0.000	0.039
	Ant.0	Top Edge 10mm	0.000	0.075	0.156	0.073	0.304
	Ant.0	Bottom Edge 10mm	0.137	0.000	0.000	0.000	0.137
5G N5	Ant.1	Front Side 10mm	0.160	0.051	0.073	0.073	0.357
	Ant.1	Back Side 10mm	0.197	0.157	0.111	0.108	0.572
	Ant.1	Left Edge 10mm	0.000	0.060	0.090	0.066	0.216
	Ant.1	Right Edge 10mm	0.114	0.000	0.000	0.000	0.114
	Ant.1	Top Edge 10mm	0.171	0.075	0.156	0.073	0.475
5G N5	Ant.0	Front Side 10mm	0.065	0.051	0.073	0.073	0.262
	Ant.0	Back Side 10mm	0.168	0.157	0.111	0.108	0.544
	Ant.0	Left Edge 10mm	0.073	0.060	0.090	0.066	0.289
	Ant.0	Right Edge 10mm	0.118	0.000	0.000	0.000	0.118
	Ant.0	Top Edge 10mm	0.000	0.075	0.156	0.073	0.304
	Ant.0	Bottom Edge 10mm	0.130	0.000	0.000	0.000	0.130
5G N7	Ant.1	Front Side 10mm	0.142	0.051	0.073	0.073	0.339
	Ant.1	Back Side 10mm	0.330	0.157	0.111	0.108	0.706
	Ant.1	Left Edge 10mm	0.000	0.060	0.090	0.066	0.216
	Ant.1	Right Edge 10mm	0.093	0.000	0.000	0.000	0.093
	Ant.1	Top Edge 10mm	0.445	0.075	0.156	0.073	0.749
5G N7	Ant.0	Front Side 10mm	0.275	0.051	0.073	0.073	0.472
	Ant.0	Back Side 10mm	0.363	0.157	0.111	0.108	0.738
	Ant.0	Left Edge 10mm	0.153	0.060	0.090	0.066	0.369
	Ant.0	Right Edge 10mm	0.031	0.000	0.000	0.000	0.031
	Ant.0	Top Edge 10mm	0.000	0.075	0.156	0.073	0.304
	Ant.0	Bottom Edge 10mm	0.236	0.000	0.000	0.000	0.236
5G N38	Ant.1	Front Side 10mm	0.251	0.051	0.073	0.073	0.448
	Ant.1	Back Side 10mm	0.728	0.157	0.111	0.108	1.103
	Ant.1	Left Edge 10mm	0.000	0.060	0.090	0.066	0.216
	Ant.1	Right Edge 10mm	0.188	0.000	0.000	0.000	0.188
	Ant.1	Top Edge 10mm	0.877	0.075	0.156	0.073	<b>1.181</b>
5G N38	Ant.0	Front Side 10mm	0.311	0.051	0.073	0.073	0.508
	Ant.0	Back Side 10mm	0.453	0.157	0.111	0.108	0.828
	Ant.0	Left Edge 10mm	0.141	0.060	0.090	0.066	0.357
	Ant.0	Right Edge 10mm	0.045	0.000	0.000	0.000	0.045
	Ant.0	Top Edge 10mm	0.000	0.075	0.156	0.073	0.304
	Ant.0	Bottom Edge 10mm	0.206	0.000	0.000	0.000	0.206
5G N41	Ant.1	Front Side 10mm	0.103	0.051	0.073	0.073	0.300

	Ant.1	Back Side 10mm	0.287	0.157	0.111	0.108	0.662
	Ant.1	Left Edge 10mm	0.000	0.060	0.090	0.066	0.216
	Ant.1	Right Edge 10mm	0.072	0.000	0.000	0.000	0.072
	Ant.1	Top Edge 10mm	0.471	0.075	0.156	0.073	0.775
5G N41	Ant.0	Front Side 10mm	0.225	0.051	0.073	0.073	0.422
	Ant.0	Back Side 10mm	0.339	0.157	0.111	0.108	0.714
	Ant.0	Left Edge 10mm	0.090	0.060	0.090	0.066	0.306
	Ant.0	Right Edge 10mm	0.030	0.000	0.000	0.000	0.030
	Ant.0	Top Edge 10mm	0.000	0.075	0.156	0.073	0.304
	Ant.0	Bottom Edge 10mm	0.159	0.000	0.000	0.000	0.159
5G N66	Ant.1	Front Side 10mm	0.081	0.051	0.073	0.073	0.279
	Ant.1	Back Side 10mm	0.089	0.157	0.111	0.108	0.464
	Ant.1	Left Edge 10mm	0.000	0.060	0.090	0.066	0.216
	Ant.1	Right Edge 10mm	0.023	0.000	0.000	0.000	0.023
	Ant.1	Top Edge 10mm	0.132	0.075	0.156	0.073	0.436
5G N66	Ant.0	Front Side 10mm	0.209	0.051	0.073	0.073	0.407
	Ant.0	Back Side 10mm	0.281	0.157	0.111	0.108	0.656
	Ant.0	Left Edge 10mm	0.059	0.060	0.090	0.066	0.275
	Ant.0	Right Edge 10mm	0.042	0.000	0.000	0.000	0.042
	Ant.0	Top Edge 10mm	0.000	0.075	0.156	0.073	0.304
	Ant.0	Bottom Edge 10mm	0.524	0.000	0.000	0.000	0.524

**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 1.181 W/Kg < 2.0 W/kg, so Simultaneous Transmission SAR test is not required.

### 12.2.10 Specific Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN5G

Band	Antenna	Position	Stand alone SAR		SUM SAR
			1	2	
			WWAN	5GWIFI	Sum SAR (1+2)
WCDMA B2	Ant.1	Front Side 10mm	0.862	0.212	1.074
	Ant.1	Back Side 10mm	0.915	0.173	1.089
	Ant.1	Left Edge 10mm	0.000	0.327	0.327
	Ant.1	Right Edge 10mm	0.141	0.000	0.141
	Ant.1	Top Edge 10mm	1.568	0.227	1.795
WCDMA B2	Ant.0	Front Side 10mm	0.865	0.212	1.077
	Ant.0	Back Side 10mm	1.514	0.173	1.688
	Ant.0	Left Edge 10mm	0.305	0.327	0.632
	Ant.0	Right Edge 10mm	0.096	0.000	0.096
	Ant.0	Top Edge 10mm	0.000	0.227	0.227
	Ant.0	Bottom Edge 10mm	1.218	0.000	1.218
WCDMA B4	Ant.1	Front Side 10mm	0.967	0.212	1.179
	Ant.1	Back Side 10mm	1.034	0.173	1.207

	Ant.1	Left Edge 10mm	0.000	0.327	0.327
	Ant.1	Right Edge 10mm	0.137	0.000	0.137
	Ant.1	Top Edge 10mm	1.435	0.227	1.662
WCDMA B4	Ant.0	Front Side 10mm	1.068	0.212	1.280
	Ant.0	Back Side 10mm	1.613	0.173	1.786
	Ant.0	Left Edge 10mm	0.235	0.327	0.562
	Ant.0	Right Edge 10mm	0.081	0.000	0.081
	Ant.0	Top Edge 10mm	0.000	0.227	0.227
	Ant.0	Bottom Edge 10mm	1.832	0.000	<b>1.832</b>
LTE B7	Ant.1	Front Side 10mm	0.729	0.212	0.940
	Ant.1	Back Side 10mm	1.138	0.173	1.311
	Ant.1	Left Edge 10mm	0.000	0.327	0.327
	Ant.1	Right Edge 10mm	0.270	0.000	0.270
	Ant.1	Top Edge 10mm	1.150	0.227	1.377
LTE B38	Ant.1	Front Side 10mm	0.571	0.212	0.783
	Ant.1	Back Side 10mm	1.180	0.173	1.354
	Ant.1	Left Edge 10mm	0.000	0.327	0.327
	Ant.1	Right Edge 10mm	0.230	0.000	0.230
	Ant.1	Top Edge 10mm	1.078	0.227	1.305
LTE B41	Ant.1	Front Side 10mm	0.840	0.212	1.052
	Ant.1	Back Side 10mm	1.105	0.173	1.279
	Ant.1	Left Edge 10mm	0.000	0.327	0.327
	Ant.1	Right Edge 10mm	0.319	0.000	0.319
	Ant.1	Top Edge 10mm	1.260	0.227	1.487
5G N7	Ant.1	Front Side 10mm	0.427	0.212	0.639
	Ant.1	Back Side 10mm	0.820	0.173	0.994
	Ant.1	Left Edge 10mm	0.000	0.327	0.327
	Ant.1	Right Edge 10mm	0.181	0.000	0.181
	Ant.1	Top Edge 10mm	0.839	0.227	1.066
5G N38	Ant.1	Front Side 10mm	0.571	0.212	0.783
	Ant.1	Back Side 10mm	0.828	0.173	1.002
	Ant.1	Left Edge 10mm	0.000	0.327	0.327
	Ant.1	Right Edge 10mm	0.016	0.000	0.016
	Ant.1	Top Edge 10mm	1.233	0.227	1.460
5G N41	Ant.1	Front Side 10mm	1.131	0.212	1.343
	Ant.1	Back Side 10mm	1.450	0.173	1.623
	Ant.1	Left Edge 10mm	0.000	0.327	0.327
	Ant.1	Right Edge 10mm	0.448	0.000	0.448
	Ant.1	Top Edge 10mm	1.474	0.227	1.701
5G N66	Ant.0	Front Side 10mm	0.899	0.212	1.110
	Ant.0	Back Side 10mm	1.292	0.173	1.465
	Ant.0	Left Edge 10mm	0.165	0.327	0.492
	Ant.0	Right Edge 10mm	0.092	0.000	0.092
	Ant.0	Top Edge 10mm	0.000	0.227	0.227
	Ant.0	Bottom Edge 10mm	1.499	0.000	1.499



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

## 12.2.11 Head Simultaneous Transmission SAR Evaluation for ENDC Antenna

EN-DC Configuratoin	LTE ANT	NR ANT	Position	Stand alone SAR		SUM SAR
				1	2	Sum SAR
				LTE (State12)	NR (State12)	Sum SAR (1+2)
DC_7A_n5A	ANT0	ANT1	Left Cheek	0.222	0.259	0.481
			Left Tilt	0.207	0.247	0.455
			Right Cheek	0.399	0.373	0.772
			Right Tilt	0.177	0.311	0.489
	ANT4	ANT1	Left Cheek	0.024	0.259	0.283
			Left Tilt	0.008	0.247	0.256
			Right Cheek	0.031	0.373	0.404
			Right Tilt	0.015	0.311	0.326
DC_66A_n5A	ANT0	ANT1	Left Cheek	0.126	0.259	0.386
			Left Tilt	0.097	0.247	0.344
			Right Cheek	0.107	0.373	0.480
			Right Tilt	0.103	0.311	0.415
	ANT4	ANT1	Left Cheek	0.030	0.259	0.290
			Left Tilt	0.014	0.247	0.261
			Right Cheek	0.030	0.373	0.404
			Right Tilt	0.013	0.311	0.324
DC_5A_n7A	ANT1	ANT0	Left Cheek	0.364	0.218	0.583
			Left Tilt	0.336	0.132	0.468
			Right Cheek	0.528	0.284	0.812
			Right Tilt	0.385	0.090	0.475
	ANT1	ANT4	Left Cheek	0.364	0.026	0.390
			Left Tilt	0.336	0.009	0.345
			Right Cheek	0.528	0.037	0.565
			Right Tilt	0.385	0.021	0.406
DC_2A_n7A	ANT1	ANT0	Left Cheek	0.254	0.218	0.472
			Left Tilt	0.314	0.132	0.446
			Right Cheek	0.393	0.284	0.677
			Right Tilt	0.466	0.090	0.556
	ANT3	ANT0	Left Cheek	0.021	0.218	0.239
			Left Tilt	0.015	0.132	0.147
			Right Cheek	0.010	0.284	0.294
			Right Tilt	0.013	0.090	0.103
	ANT1	ANT4	Left Cheek	0.254	0.026	0.280
			Left Tilt	0.314	0.009	0.323
			Right Cheek	0.393	0.037	0.430
			Right Tilt	0.466	0.021	0.487
	ANT3	ANT4	Left Cheek	0.021	0.026	0.047
			Left Tilt	0.015	0.009	0.024
			Right Cheek	0.010	0.037	0.047

			Right Tilt	0.013	0.021	0.035
DC_66A_n7A	ANT1	ANT0	Left Cheek	0.283	0.218	0.502
			Left Tilt	0.352	0.132	0.485
			Right Cheek	0.481	0.284	0.765
			Right Tilt	0.531	0.090	0.621
	ANT3	ANT0	Left Cheek	0.045	0.218	0.263
			Left Tilt	0.015	0.132	0.147
			Right Cheek	0.029	0.284	0.312
			Right Tilt	0.009	0.090	0.099
	ANT1	ANT4	Left Cheek	0.283	0.026	0.309
			Left Tilt	0.352	0.009	0.361
			Right Cheek	0.481	0.037	0.518
			Right Tilt	0.531	0.021	0.553
	ANT3	ANT4	Left Cheek	0.045	0.026	0.071
			Left Tilt	0.015	0.009	0.024
			Right Cheek	0.029	0.037	0.065
			Right Tilt	0.009	0.021	0.030
DC_26A_n41A	ANT1	ANT0	Left Cheek	0.363	0.252	0.615
			Left Tilt	0.330	0.179	0.510
			Right Cheek	0.480	0.425	<b>0.905</b>
			Right Tilt	0.415	0.125	0.541
	ANT1	ANT4	Left Cheek	0.363	0.022	0.384
			Left Tilt	0.330	0.008	0.338
			Right Cheek	0.480	0.035	0.515
			Right Tilt	0.415	0.019	0.434
DC_5A+n66A	ANT1	ANT0	Left Cheek	0.364	0.075	0.439
			Left Tilt	0.336	0.071	0.407
			Right Cheek	0.528	0.092	0.620
			Right Tilt	0.385	0.077	0.461
	ANT1	ANT4	Left Cheek	0.364	0.030	0.395
			Left Tilt	0.336	0.013	0.349
			Right Cheek	0.528	0.030	0.559
			Right Tilt	0.385	0.014	0.399
DC_7A+n66A	ANT1	ANT0	Left Cheek	0.239	0.075	0.314
			Left Tilt	0.324	0.071	0.395
			Right Cheek	0.589	0.092	0.681
			Right Tilt	0.645	0.077	0.721
	ANT3	ANT0	Left Cheek	0.028	0.075	0.103
			Left Tilt	0.024	0.071	0.096
			Right Cheek	0.036	0.092	0.128
			Right Tilt	0.017	0.077	0.094
	ANT1	ANT4	Left Cheek	0.239	0.030	0.269
			Left Tilt	0.324	0.013	0.336
			Right Cheek	0.589	0.030	0.620
			Right Tilt	0.645	0.014	0.659

	ANT3	ANT4	Left Cheek	0.028	0.030	0.059
			Left Tilt	0.024	0.013	0.037
			Right Cheek	0.036	0.030	0.067
			Right Tilt	0.017	0.014	0.031
DC_12A+n66A	ANT1	ANT0	Left Cheek	0.302	0.075	0.376
			Left Tilt	0.293	0.071	0.364
			Right Cheek	0.430	0.092	0.521
			Right Tilt	0.410	0.077	0.487
	ANT1	ANT4	Left Cheek	0.302	0.030	0.332
			Left Tilt	0.293	0.013	0.305
			Right Cheek	0.430	0.030	0.460
			Right Tilt	0.410	0.014	0.424

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

### 12.2.12 Head Simultaneous Transmission SAR Evaluation for ENDC Antenna with WLAN2.4G and Bluetooth

EN-DC Configuratoion	LTE ANT	NR ANT	Position	Stand alone SAR					SUM SAR
				1	2	3	4	5	SUM SAR
				LTE (State16)	NR (State16)	EN_DC	2.4G WIFI (Level3)	Bluetooth	Sum SAR (3+4+5)
DC_7A_n5A	ANT0	ANT1	Left Cheek	0.222	0.318	0.539	0.298	0.424	<b>1.261</b>
			Left Tilt	0.207	0.309	0.517	0.181	0.332	1.030
			Right Cheek	0.399	0.459	0.858	0.119	0.216	1.192
			Right Tilt	0.177	0.398	0.575	0.123	0.204	0.902
	ANT4	ANT1	Left Cheek	0.022	0.318	0.339	0.298	0.424	1.061
			Left Tilt	0.007	0.309	0.316	0.181	0.332	0.830
			Right Cheek	0.028	0.459	0.486	0.119	0.216	0.821
			Right Tilt	0.013	0.398	0.411	0.123	0.204	0.738
DC_66A_n5A	ANT0	ANT1	Left Cheek	0.126	0.318	0.444	0.298	0.424	1.166
			Left Tilt	0.097	0.309	0.406	0.181	0.332	0.919
			Right Cheek	0.107	0.459	0.565	0.119	0.216	0.900
			Right Tilt	0.103	0.398	0.501	0.123	0.204	0.828
	ANT4	ANT1	Left Cheek	0.027	0.318	0.345	0.298	0.424	1.067
			Left Tilt	0.013	0.309	0.322	0.181	0.332	0.835
			Right Cheek	0.027	0.459	0.486	0.119	0.216	0.820
			Right Tilt	0.011	0.398	0.409	0.123	0.204	0.736
DC_5A_n7A	ANT1	ANT0	Left Cheek	0.314	0.218	0.532	0.298	0.424	1.254
			Left Tilt	0.268	0.132	0.400	0.181	0.332	0.913
			Right Cheek	0.415	0.284	0.698	0.119	0.216	1.033
			Right Tilt	0.316	0.090	0.406	0.123	0.204	0.733
	ANT1	ANT4	Left Cheek	0.314	0.021	0.335	0.298	0.424	1.057

			Left Tilt	0.268	0.008	0.275	0.181	0.332	0.788
			Right Cheek	0.415	0.029	0.443	0.119	0.216	0.778
			Right Tilt	0.316	0.017	0.333	0.123	0.204	0.660
DC_2A_n7A	ANT1	ANT0	Left Cheek	0.165	0.218	0.384	0.298	0.424	1.105
			Left Tilt	0.200	0.132	0.332	0.181	0.332	0.845
			Right Cheek	0.262	0.284	0.546	0.119	0.216	0.881
			Right Tilt	0.317	0.090	0.407	0.123	0.204	0.734
	ANT3	ANT0	Left Cheek	0.019	0.218	0.237	0.298	0.424	0.959
			Left Tilt	0.013	0.132	0.146	0.181	0.332	0.659
			Right Cheek	0.009	0.284	0.293	0.119	0.216	0.628
			Right Tilt	0.012	0.090	0.102	0.123	0.204	0.429
	ANT1	ANT4	Left Cheek	0.165	0.021	0.187	0.298	0.424	0.908
			Left Tilt	0.200	0.008	0.208	0.181	0.332	0.721
			Right Cheek	0.262	0.029	0.291	0.119	0.216	0.626
			Right Tilt	0.317	0.017	0.334	0.123	0.204	0.661
	ANT3	ANT4	Left Cheek	0.019	0.021	0.040	0.298	0.424	0.762
			Left Tilt	0.013	0.008	0.021	0.181	0.332	0.534
			Right Cheek	0.009	0.029	0.038	0.119	0.216	0.373
			Right Tilt	0.012	0.017	0.029	0.123	0.204	0.355
DC_66A_n7A	ANT1	ANT0	Left Cheek	0.200	0.218	0.418	0.298	0.424	1.140
			Left Tilt	0.248	0.132	0.381	0.181	0.332	0.894
			Right Cheek	0.337	0.284	0.621	0.119	0.216	0.956
			Right Tilt	0.395	0.090	0.485	0.123	0.204	0.812
	ANT3	ANT0	Left Cheek	0.040	0.218	0.259	0.298	0.424	0.980
			Left Tilt	0.013	0.132	0.146	0.181	0.332	0.659
			Right Cheek	0.025	0.284	0.309	0.119	0.216	0.644
			Right Tilt	0.008	0.090	0.098	0.123	0.204	0.425
	ANT1	ANT4	Left Cheek	0.200	0.021	0.221	0.298	0.424	0.943
			Left Tilt	0.248	0.008	0.256	0.181	0.332	0.769
			Right Cheek	0.337	0.029	0.366	0.119	0.216	0.701
			Right Tilt	0.395	0.017	0.411	0.123	0.204	0.738
	ANT3	ANT4	Left Cheek	0.040	0.021	0.061	0.298	0.424	0.783
			Left Tilt	0.013	0.008	0.021	0.181	0.332	0.534
			Right Cheek	0.025	0.029	0.054	0.119	0.216	0.389
			Right Tilt	0.008	0.017	0.025	0.123	0.204	0.352
DC_26A_n41A	ANT1	ANT0	Left Cheek	0.258	0.252	0.510	0.298	0.424	1.232
			Left Tilt	0.232	0.179	0.411	0.181	0.332	0.924
			Right Cheek	0.338	0.425	0.763	0.119	0.216	1.097
			Right Tilt	0.300	0.125	0.425	0.123	0.204	0.752
	ANT1	ANT4	Left Cheek	0.258	0.017	0.275	0.298	0.424	0.997
			Left Tilt	0.232	0.006	0.238	0.181	0.332	0.751
			Right Cheek	0.338	0.028	0.366	0.119	0.216	0.701
			Right Tilt	0.300	0.015	0.315	0.123	0.204	0.642
DC_5A+n66A	ANT1	ANT0	Left Cheek	0.314	0.075	0.388	0.298	0.424	1.110
			Left Tilt	0.268	0.071	0.339	0.181	0.332	0.852

	ANT1	ANT4	Right Cheek	0.415	0.092	0.506	0.119	0.216	0.841	
			Right Tilt	0.316	0.077	0.393	0.123	0.204	0.720	
			Left Cheek	0.314	0.023	0.337	0.298	0.424	1.059	
			Left Tilt	0.268	0.009	0.277	0.181	0.332	0.790	
			Right Cheek	0.415	0.022	0.437	0.119	0.216	0.772	
	DC_7A+n66A	ANT1	ANT0	Right Tilt	0.316	0.010	0.326	0.123	0.204	0.653
				Left Cheek	0.152	0.075	0.227	0.298	0.424	0.948
				Left Tilt	0.208	0.071	0.279	0.181	0.332	0.793
				Right Cheek	0.361	0.092	0.453	0.119	0.216	0.787
		ANT3	ANT0	Right Tilt	0.406	0.077	0.483	0.123	0.204	0.810
Left Cheek				0.025	0.075	0.100	0.298	0.424	0.821	
Left Tilt				0.021	0.071	0.093	0.181	0.332	0.606	
Right Cheek				0.032	0.092	0.124	0.119	0.216	0.459	
ANT1		ANT4	Right Tilt	0.015	0.077	0.092	0.123	0.204	0.419	
			Left Cheek	0.152	0.023	0.175	0.298	0.424	0.897	
	Left Tilt		0.208	0.009	0.217	0.181	0.332	0.730		
	Right Cheek		0.361	0.022	0.383	0.119	0.216	0.718		
ANT3	ANT4	Right Tilt	0.406	0.010	0.416	0.123	0.204	0.743		
		Left Cheek	0.025	0.023	0.048	0.298	0.424	0.770		
		Left Tilt	0.021	0.009	0.030	0.181	0.332	0.543		
		Right Cheek	0.032	0.022	0.054	0.119	0.216	0.389		
DC_12A+n66A	ANT1	ANT0	Right Tilt	0.015	0.010	0.025	0.123	0.204	0.352	
			Left Cheek	0.185	0.075	0.259	0.298	0.424	0.981	
			Left Tilt	0.179	0.071	0.251	0.181	0.332	0.764	
			Right Cheek	0.272	0.092	0.363	0.119	0.216	0.698	
	ANT1	ANT4	Right Tilt	0.260	0.077	0.337	0.123	0.204	0.664	
			Left Cheek	0.185	0.023	0.208	0.298	0.424	0.930	
			Left Tilt	0.179	0.009	0.188	0.181	0.332	0.701	
			Right Cheek	0.272	0.022	0.294	0.119	0.216	0.629	
			Right Tilt	0.260	0.010	0.270	0.123	0.204	0.597	

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

### 12.2.13 Head Simultaneous Transmission SAR Evaluation for ENDC Antenna with WLAN5G and Bluetooth

EN-DC Configuratoion	LTE ANT	NR ANT	Position	Stand alone SAR					SUM SAR
				1	2	3	4	5	Sum SAR (3+4+5)
				LTE (State19)	NR (State19)	EN_DC	5G WIFI (Level3)	Bluetooth	
DC_7A_n5A	ANT0	ANT1	Left Cheek	0.222	0.318	0.539	0.467	0.424	<b>1.430</b>
			Left Tilt	0.207	0.309	0.517	0.425	0.332	1.273
			Right Cheek	0.399	0.459	0.858	0.238	0.216	1.311

	ANT4	ANT1	Right Tilt	0.177	0.398	0.575	0.269	0.204	1.048
			Left Cheek	0.022	0.318	0.339	0.467	0.424	1.230
			Left Tilt	0.007	0.309	0.316	0.425	0.332	1.073
			Right Cheek	0.028	0.459	0.486	0.238	0.216	0.940
			Right Tilt	0.013	0.398	0.411	0.269	0.204	0.884
DC_66A_n5A	ANT0	ANT1	Left Cheek	0.126	0.318	0.444	0.467	0.424	1.335
			Left Tilt	0.097	0.309	0.406	0.425	0.332	1.163
			Right Cheek	0.107	0.459	0.565	0.238	0.216	1.019
			Right Tilt	0.103	0.398	0.501	0.269	0.204	0.974
	ANT4	ANT1	Left Cheek	0.027	0.318	0.345	0.467	0.424	1.235
			Left Tilt	0.013	0.309	0.322	0.425	0.332	1.078
			Right Cheek	0.027	0.459	0.486	0.238	0.216	0.940
			Right Tilt	0.011	0.398	0.409	0.269	0.204	0.883
DC_5A_n7A	ANT1	ANT0	Left Cheek	0.314	0.218	0.532	0.467	0.424	1.422
			Left Tilt	0.268	0.132	0.400	0.425	0.332	1.157
			Right Cheek	0.415	0.284	0.698	0.238	0.216	1.152
			Right Tilt	0.316	0.090	0.406	0.269	0.204	0.880
	ANT1	ANT4	Left Cheek	0.314	0.021	0.335	0.467	0.424	1.225
			Left Tilt	0.268	0.008	0.275	0.425	0.332	1.032
			Right Cheek	0.415	0.029	0.443	0.238	0.216	0.897
			Right Tilt	0.316	0.017	0.333	0.269	0.204	0.806
DC_2A_n7A	ANT1	ANT0	Left Cheek	0.165	0.218	0.384	0.467	0.424	1.274
			Left Tilt	0.200	0.132	0.332	0.425	0.332	1.089
			Right Cheek	0.262	0.284	0.546	0.238	0.216	1.000
			Right Tilt	0.317	0.090	0.407	0.269	0.204	0.881
	ANT3	ANT0	Left Cheek	0.019	0.218	0.237	0.467	0.424	1.127
			Left Tilt	0.013	0.132	0.146	0.425	0.332	0.902
			Right Cheek	0.009	0.284	0.293	0.238	0.216	0.747
			Right Tilt	0.012	0.090	0.102	0.269	0.204	0.576
	ANT1	ANT4	Left Cheek	0.165	0.021	0.187	0.467	0.424	1.077
			Left Tilt	0.200	0.008	0.208	0.425	0.332	0.964
			Right Cheek	0.262	0.029	0.291	0.238	0.216	0.745
			Right Tilt	0.317	0.017	0.334	0.269	0.204	0.807
	ANT3	ANT4	Left Cheek	0.019	0.021	0.040	0.467	0.424	0.930
			Left Tilt	0.013	0.008	0.021	0.425	0.332	0.777
			Right Cheek	0.009	0.029	0.038	0.238	0.216	0.492
			Right Tilt	0.012	0.017	0.029	0.269	0.204	0.502
DC_66A_n7A	ANT1	ANT0	Left Cheek	0.200	0.218	0.418	0.467	0.424	1.309
			Left Tilt	0.248	0.132	0.381	0.425	0.332	1.137
			Right Cheek	0.337	0.284	0.621	0.238	0.216	1.075
			Right Tilt	0.395	0.090	0.485	0.269	0.204	0.958
	ANT3	ANT0	Left Cheek	0.040	0.218	0.259	0.467	0.424	1.149
			Left Tilt	0.013	0.132	0.146	0.425	0.332	0.902
			Right Cheek	0.025	0.284	0.309	0.238	0.216	0.763
			Right Tilt	0.008	0.090	0.098	0.269	0.204	0.572

	ANT1	ANT4	Left Cheek	0.200	0.021	0.221	0.467	0.424	1.112	
			Left Tilt	0.248	0.008	0.256	0.425	0.332	1.013	
			Right Cheek	0.337	0.029	0.366	0.238	0.216	0.820	
			Right Tilt	0.395	0.017	0.411	0.269	0.204	0.885	
		ANT3	ANT4	Left Cheek	0.040	0.021	0.061	0.467	0.424	0.952
				Left Tilt	0.013	0.008	0.021	0.425	0.332	0.778
				Right Cheek	0.025	0.029	0.054	0.238	0.216	0.508
				Right Tilt	0.008	0.017	0.025	0.269	0.204	0.498
DC_26A_n41A	ANT1	ANT0	Left Cheek	0.258	0.252	0.510	0.467	0.424	1.401	
			Left Tilt	0.232	0.179	0.411	0.425	0.332	1.168	
			Right Cheek	0.338	0.425	0.763	0.238	0.216	1.216	
			Right Tilt	0.300	0.125	0.425	0.269	0.204	0.899	
		ANT1	ANT4	Left Cheek	0.258	0.017	0.275	0.467	0.424	1.165
				Left Tilt	0.232	0.006	0.238	0.425	0.332	0.995
				Right Cheek	0.338	0.028	0.366	0.238	0.216	0.820
				Right Tilt	0.300	0.015	0.315	0.269	0.204	0.788
DC_5A+n66A	ANT1	ANT0	Left Cheek	0.314	0.075	0.388	0.467	0.424	1.279	
			Left Tilt	0.268	0.071	0.339	0.425	0.332	1.096	
			Right Cheek	0.415	0.092	0.506	0.238	0.216	0.960	
			Right Tilt	0.316	0.077	0.393	0.269	0.204	0.867	
		ANT1	ANT4	Left Cheek	0.314	0.023	0.337	0.467	0.424	1.227
				Left Tilt	0.268	0.009	0.277	0.425	0.332	1.033
				Right Cheek	0.415	0.022	0.437	0.238	0.216	0.891
				Right Tilt	0.316	0.010	0.326	0.269	0.204	0.800
DC_7A+n66A	ANT1	ANT0	Left Cheek	0.152	0.075	0.227	0.467	0.424	1.117	
			Left Tilt	0.208	0.071	0.279	0.425	0.332	1.036	
			Right Cheek	0.361	0.092	0.453	0.238	0.216	0.906	
			Right Tilt	0.406	0.077	0.483	0.269	0.204	0.957	
		ANT3	ANT0	Left Cheek	0.025	0.075	0.100	0.467	0.424	0.990
				Left Tilt	0.021	0.071	0.093	0.425	0.332	0.850
				Right Cheek	0.032	0.092	0.124	0.238	0.216	0.578
				Right Tilt	0.015	0.077	0.092	0.269	0.204	0.566
		ANT1	ANT4	Left Cheek	0.152	0.023	0.175	0.467	0.424	1.066
				Left Tilt	0.208	0.009	0.217	0.425	0.332	0.973
				Right Cheek	0.361	0.022	0.383	0.238	0.216	0.837
				Right Tilt	0.406	0.010	0.416	0.269	0.204	0.890
		ANT3	ANT4	Left Cheek	0.025	0.023	0.048	0.467	0.424	0.939
				Left Tilt	0.021	0.009	0.030	0.425	0.332	0.787
				Right Cheek	0.032	0.022	0.054	0.238	0.216	0.508
				Right Tilt	0.015	0.010	0.025	0.269	0.204	0.499
DC_12A+n66A	ANT1	ANT0	Left Cheek	0.185	0.075	0.259	0.467	0.424	1.150	
			Left Tilt	0.179	0.071	0.251	0.425	0.332	1.008	
			Right Cheek	0.272	0.092	0.363	0.238	0.216	0.817	
			Right Tilt	0.260	0.077	0.337	0.269	0.204	0.810	
	ANT1	ANT4	Left Cheek	0.185	0.023	0.208	0.467	0.424	1.098	



			Left Tilt	0.179	0.009	0.188	0.425	0.332	0.945
			Right Cheek	0.272	0.022	0.294	0.238	0.216	0.748
			Right Tilt	0.260	0.010	0.270	0.269	0.204	0.744

**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 1.43 W/kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

### 12.2.14 Head Simultaneous Transmission SAR Evaluation for ENDC Antenna with WLAN and Bluetooth

EN-DC Configuratoion	LTE ANT	NR ANT	Position	Stand alone SAR						SUM SAR
				1	2	3	4	5	6	SUM SAR
				LTE (State17)	NR (State17)	EN_DC	2.4G WIFI (Level4)	5G WIFI (Level4)	Bluetooth	Sum SAR (3+4+5+6)
DC_7A_n5A	ANT0	ANT1	Left Cheek	0.222	0.102	0.324	0.246	0.467	0.424	1.461
			Left Tilt	0.207	0.095	0.302	0.156	0.425	0.332	1.215
			Right Cheek	0.399	0.149	0.548	0.091	0.238	0.216	1.093
			Right Tilt	0.177	0.134	0.311	0.104	0.269	0.204	0.888
	ANT4	ANT1	Left Cheek	0.019	0.102	0.122	0.246	0.467	0.424	1.258
			Left Tilt	0.006	0.095	0.101	0.156	0.425	0.332	1.014
			Right Cheek	0.025	0.149	0.173	0.091	0.238	0.216	0.718
			Right Tilt	0.012	0.134	0.146	0.104	0.269	0.204	0.723
DC_66A_n5A	ANT0	ANT1	Left Cheek	0.126	0.102	0.229	0.246	0.467	0.424	1.366
			Left Tilt	0.097	0.095	0.192	0.156	0.425	0.332	1.105
			Right Cheek	0.107	0.149	0.255	0.091	0.238	0.216	0.800
			Right Tilt	0.103	0.134	0.237	0.104	0.269	0.204	0.814
	ANT4	ANT1	Left Cheek	0.025	0.102	0.127	0.246	0.467	0.424	1.264
			Left Tilt	0.010	0.095	0.105	0.156	0.425	0.332	1.018
			Right Cheek	0.025	0.149	0.174	0.091	0.238	0.216	0.719
			Right Tilt	0.010	0.134	0.144	0.104	0.269	0.204	0.722
DC_5A_n7A	ANT1	ANT0	Left Cheek	0.199	0.218	0.417	0.246	0.467	0.424	<b>1.554</b>
			Left Tilt	0.168	0.132	0.301	0.156	0.425	0.332	1.214
			Right Cheek	0.255	0.284	0.539	0.091	0.238	0.216	1.084
			Right Tilt	0.200	0.090	0.290	0.104	0.269	0.204	0.868

	ANT1	ANT4	Left Cheek	0.199	0.017	0.216	0.246	0.467	0.424	1.353
			Left Tilt	0.168	0.006	0.175	0.156	0.425	0.332	1.087
			Right Cheek	0.255	0.023	0.278	0.091	0.238	0.216	0.823
			Right Tilt	0.200	0.014	0.214	0.104	0.269	0.204	0.791
DC_2A_n7A	ANT1	ANT0	Left Cheek	0.102	0.218	0.321	0.246	0.467	0.424	1.457
			Left Tilt	0.121	0.132	0.253	0.156	0.425	0.332	1.166
			Right Cheek	0.165	0.284	0.449	0.091	0.238	0.216	0.994
			Right Tilt	0.188	0.090	0.278	0.104	0.269	0.204	0.855
	ANT3	ANT0	Left Cheek	0.017	0.218	0.235	0.246	0.467	0.424	1.372
			Left Tilt	0.012	0.132	0.144	0.156	0.425	0.332	1.057
			Right Cheek	0.008	0.284	0.292	0.091	0.238	0.216	0.837
			Right Tilt	0.011	0.090	0.101	0.104	0.269	0.204	0.678
	ANT1	ANT4	Left Cheek	0.102	0.017	0.119	0.246	0.467	0.424	1.256
			Left Tilt	0.121	0.006	0.127	0.156	0.425	0.332	1.040
			Right Cheek	0.165	0.023	0.188	0.091	0.238	0.216	0.733
			Right Tilt	0.188	0.014	0.202	0.104	0.269	0.204	0.779
	ANT3	ANT4	Left Cheek	0.017	0.017	0.033	0.246	0.467	0.424	1.170
			Left Tilt	0.012	0.006	0.018	0.156	0.425	0.332	0.931
			Right Cheek	0.008	0.023	0.031	0.091	0.238	0.216	0.576
			Right Tilt	0.011	0.014	0.024	0.104	0.269	0.204	0.602
DC_66A_n7A	ANT1	ANT0	Left Cheek	0.110	0.218	0.328	0.246	0.467	0.424	1.465
			Left Tilt	0.137	0.132	0.269	0.156	0.425	0.332	1.182
			Right Cheek	0.178	0.284	0.462	0.091	0.238	0.216	1.007
			Right Tilt	0.206	0.090	0.297	0.104	0.269	0.204	0.874
	ANT3	ANT0	Left Cheek	0.036	0.218	0.254	0.246	0.467	0.424	1.391
			Left Tilt	0.012	0.132	0.144	0.156	0.425	0.332	1.057
			Right Cheek	0.023	0.284	0.307	0.091	0.238	0.216	0.852
			Right Tilt	0.007	0.090	0.097	0.104	0.269	0.204	0.675
	ANT1	ANT4	Left Cheek	0.110	0.017	0.126	0.246	0.467	0.424	1.263
			Left Tilt	0.137	0.006	0.143	0.156	0.425	0.332	1.056

			Right Cheek	0.178	0.023	0.201	0.091	0.238	0.216	0.746
			Right Tilt	0.206	0.014	0.220	0.104	0.269	0.204	0.797
	ANT3	ANT4	Left Cheek	0.036	0.017	0.052	0.246	0.467	0.424	1.189
			Left Tilt	0.012	0.006	0.018	0.156	0.425	0.332	0.931
			Right Cheek	0.023	0.023	0.045	0.091	0.238	0.216	0.590
			Right Tilt	0.007	0.014	0.021	0.104	0.269	0.204	0.598
DC_26A_n41A	ANT1	ANT0	Left Cheek	0.141	0.252	0.394	0.246	0.467	0.424	1.530
			Left Tilt	0.129	0.179	0.309	0.156	0.425	0.332	1.222
			Right Cheek	0.187	0.425	0.611	0.091	0.238	0.216	1.156
			Right Tilt	0.166	0.125	0.292	0.104	0.269	0.204	0.869
	ANT1	ANT4	Left Cheek	0.141	0.017	0.159	0.246	0.467	0.424	1.296
			Left Tilt	0.129	0.005	0.135	0.156	0.425	0.332	1.048
			Right Cheek	0.187	0.022	0.209	0.091	0.238	0.216	0.754
			Right Tilt	0.166	0.012	0.178	0.104	0.269	0.204	0.756
DC_5A+n66A	ANT1	ANT0	Left Cheek	0.199	0.075	0.274	0.246	0.467	0.424	1.411
			Left Tilt	0.168	0.071	0.240	0.156	0.425	0.332	1.153
			Right Cheek	0.255	0.092	0.347	0.091	0.238	0.216	0.892
			Right Tilt	0.200	0.077	0.277	0.104	0.269	0.204	0.854
	ANT1	ANT4	Left Cheek	0.199	0.019	0.218	0.246	0.467	0.424	1.355
			Left Tilt	0.168	0.007	0.176	0.156	0.425	0.332	1.089
			Right Cheek	0.255	0.019	0.274	0.091	0.238	0.216	0.819
			Right Tilt	0.200	0.008	0.209	0.104	0.269	0.204	0.786
DC_7A+n66A	ANT1	ANT0	Left Cheek	0.082	0.075	0.157	0.246	0.467	0.424	1.293
			Left Tilt	0.107	0.071	0.179	0.156	0.425	0.332	1.092
			Right Cheek	0.196	0.092	0.288	0.091	0.238	0.216	0.833
			Right Tilt	0.212	0.077	0.289	0.104	0.269	0.204	0.866
	ANT3	ANT0	Left Cheek	0.021	0.075	0.096	0.246	0.467	0.424	1.233
			Left Tilt	0.019	0.071	0.090	0.156	0.425	0.332	1.003
			Right Cheek	0.029	0.092	0.121	0.091	0.238	0.216	0.666
			Right Tilt	0.013	0.077	0.090	0.104	0.269	0.204	0.667

	ANT1	ANT4	Left Cheek	0.082	0.019	0.100	0.246	0.467	0.424	1.237
			Left Tilt	0.107	0.007	0.115	0.156	0.425	0.332	1.027
			Right Cheek	0.196	0.019	0.215	0.091	0.238	0.216	0.760
			Right Tilt	0.212	0.008	0.220	0.104	0.269	0.204	0.798
	ANT3	ANT4	Left Cheek	0.021	0.019	0.040	0.246	0.467	0.424	1.176
			Left Tilt	0.019	0.007	0.026	0.156	0.425	0.332	0.939
			Right Cheek	0.029	0.019	0.048	0.091	0.238	0.216	0.593
			Right Tilt	0.013	0.008	0.021	0.104	0.269	0.204	0.598
DC_12A+n66A	ANT1	ANT0	Left Cheek	0.116	0.075	0.191	0.246	0.467	0.424	1.328
			Left Tilt	0.111	0.071	0.182	0.156	0.425	0.332	1.095
			Right Cheek	0.166	0.092	0.258	0.091	0.238	0.216	0.803
			Right Tilt	0.169	0.077	0.246	0.104	0.269	0.204	0.823
	ANT1	ANT4	Left Cheek	0.116	0.019	0.135	0.246	0.467	0.424	1.272
			Left Tilt	0.111	0.007	0.118	0.156	0.425	0.332	1.031
			Right Cheek	0.166	0.019	0.185	0.091	0.238	0.216	0.730
			Right Tilt	0.169	0.008	0.177	0.104	0.269	0.204	0.755

**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 1.554 W/kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

### 12.2.15 Body-worn Simultaneous Transmission SAR Evaluation for ENDC Antenna with WLAN and Bluetooth

EN-DC Configuratoin	LTE ANT	NR ANT	Position	Stand alone SAR		SUM SAR
				1	2	
				LTE (State11)	NR (State11)	Sum SAR (1+2)
DC_7A_n5A	ANT0	ANT1	Front Side 15mm	0.126	0.100	0.226
			Back Side 15mm	0.159	0.114	0.273
	ANT4	ANT1	Front Side 15mm	0.016	0.100	0.116
			Back Side 15mm	0.076	0.114	0.189
DC_66A_n5A	ANT0	ANT1	Front Side 15mm	0.084	0.100	0.184
			Back Side 15mm	0.140	0.114	0.254
	ANT4	ANT1	Front Side 15mm	0.039	0.100	0.139
			Back Side 15mm	0.108	0.114	0.222
DC_5A_n7A	ANT1	ANT0	Front Side 15mm	0.152	0.111	0.263

	ANT1	ANT4	Back Side 15mm	0.178	0.155	0.333	
			Front Side 15mm	0.152	0.018	0.170	
DC_2A_n7A	ANT1	ANT0	Back Side 15mm	0.178	0.085	0.263	
			Front Side 15mm	0.141	0.111	0.252	
	ANT3	ANT0	Back Side 15mm	0.177	0.155	0.332	
			Front Side 15mm	0.009	0.111	0.120	
	ANT1	ANT4	Back Side 15mm	0.014	0.155	0.170	
			Front Side 15mm	0.141	0.018	0.159	
	ANT3	ANT4	Back Side 15mm	0.177	0.085	0.262	
			Front Side 15mm	0.009	0.018	0.027	
				Back Side 15mm	0.014	0.085	0.100
				Front Side 15mm	0.150	0.111	0.261
DC_66A_n7A	ANT1	ANT0	Back Side 15mm	0.159	0.155	0.314	
			Front Side 15mm	0.016	0.111	0.127	
	ANT3	ANT0	Back Side 15mm	0.035	0.155	0.191	
			Front Side 15mm	0.150	0.018	0.169	
	ANT1	ANT4	Back Side 15mm	0.159	0.085	0.244	
			Front Side 15mm	0.016	0.018	0.034	
	ANT3	ANT4	Back Side 15mm	0.035	0.085	0.121	
			Front Side 15mm	0.071	0.107	0.178	
DC_26A_n41A	ANT1	ANT0	Back Side 15mm	0.093	0.199	0.293	
			Front Side 15mm	0.071	0.022	0.092	
	ANT1	ANT4	Back Side 15mm	0.093	0.086	0.179	
			Front Side 15mm	0.152	0.159	0.310	
DC_5A+n66A	ANT1	ANT0	Back Side 15mm	0.178	0.217	<b>0.395</b>	
			Front Side 15mm	0.152	0.030	0.181	
	ANT1	ANT4	Back Side 15mm	0.178	0.097	0.275	
			Front Side 15mm	0.074	0.159	0.233	
DC_7A+n66A	ANT1	ANT0	Back Side 15mm	0.133	0.217	0.350	
			Front Side 15mm	0.012	0.159	0.171	
	ANT3	ANT0	Back Side 15mm	0.025	0.217	0.243	
			Front Side 15mm	0.074	0.030	0.104	
	ANT1	ANT4	Back Side 15mm	0.133	0.097	0.230	
			Front Side 15mm	0.012	0.030	0.042	
	ANT3	ANT4	Back Side 15mm	0.025	0.097	0.123	
			Front Side 15mm	0.128	0.159	0.286	
DC_12A+n66A	ANT1	ANT0	Back Side 15mm	0.176	0.217	0.393	
			Front Side 15mm	0.128	0.030	0.157	
	ANT1	ANT4	Back Side 15mm	0.176	0.097	0.273	
			Front Side 15mm	0.128	0.159	0.286	

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

## 12.2.16 Body-worn Simultaneous Transmission SAR Evaluation for ENDC with WLAN2.4G and Bluetooth

EN-DC Configuratoion	LTE ANT	NR ANT	Position	Stand alone SAR					SUM SAR
				1	2	3	4	5	Sum SAR (3+4+5)
				LTE (State11)	NR (State11)	EN_DC	2.4G WIFI (Level5)	Bluetooth	
DC_7A_n5A	ANT0	ANT1	Front Side 15mm	0.126	0.100	0.226	0.081	0.018	0.325
			Back Side 15mm	0.159	0.114	0.273	0.087	0.028	0.388
	ANT4	ANT1	Front Side 15mm	0.016	0.100	0.116	0.081	0.018	0.215
			Back Side 15mm	0.076	0.114	0.189	0.087	0.028	0.305
DC_66A_n5A	ANT0	ANT1	Front Side 15mm	0.084	0.100	0.184	0.081	0.018	0.283
			Back Side 15mm	0.140	0.114	0.254	0.087	0.028	0.369
	ANT4	ANT1	Front Side 15mm	0.039	0.100	0.139	0.081	0.018	0.238
			Back Side 15mm	0.108	0.114	0.222	0.087	0.028	0.337
DC_5A_n7A	ANT1	ANT0	Front Side 15mm	0.152	0.111	0.263	0.081	0.018	0.362
			Back Side 15mm	0.178	0.155	0.333	0.087	0.028	0.449
	ANT1	ANT4	Front Side 15mm	0.152	0.018	0.170	0.081	0.018	0.269
			Back Side 15mm	0.178	0.085	0.263	0.087	0.028	0.379
DC_2A_n7A	ANT1	ANT0	Front Side 15mm	0.137	0.111	0.248	0.081	0.018	0.347
			Back Side 15mm	0.173	0.155	0.329	0.087	0.028	0.444
	ANT3	ANT0	Front Side 15mm	0.009	0.111	0.120	0.081	0.018	0.219
			Back Side 15mm	0.014	0.155	0.170	0.087	0.028	0.285
	ANT1	ANT4	Front Side 15mm	0.137	0.018	0.155	0.081	0.018	0.254
			Back Side 15mm	0.173	0.085	0.259	0.087	0.028	0.374
	ANT3	ANT4	Front Side 15mm	0.009	0.018	0.027	0.081	0.018	0.126

			Back Side 15mm	0.014	0.085	0.100	0.087	0.028	0.215
DC_66A_n7A	ANT1	ANT0	Front Side 15mm	0.150	0.111	0.261	0.081	0.018	0.361
			Back Side 15mm	0.159	0.155	0.314	0.087	0.028	0.430
	ANT3	ANT0	Front Side 15mm	0.016	0.111	0.127	0.081	0.018	0.226
			Back Side 15mm	0.035	0.155	0.191	0.087	0.028	0.306
	ANT1	ANT4	Front Side 15mm	0.150	0.018	0.169	0.081	0.018	0.268
			Back Side 15mm	0.159	0.085	0.244	0.087	0.028	0.360
	ANT3	ANT4	Front Side 15mm	0.016	0.018	0.034	0.081	0.018	0.134
			Back Side 15mm	0.035	0.085	0.121	0.087	0.028	0.236
DC_26A_n41A	ANT1	ANT0	Front Side 15mm	0.071	0.107	0.178	0.081	0.018	0.277
			Back Side 15mm	0.093	0.199	0.293	0.087	0.028	0.408
	ANT1	ANT4	Front Side 15mm	0.071	0.022	0.092	0.081	0.018	0.192
			Back Side 15mm	0.093	0.086	0.179	0.087	0.028	0.295
DC_5A+n66A	ANT1	ANT0	Front Side 15mm	0.152	0.159	0.310	0.081	0.018	0.409
			Back Side 15mm	0.178	0.217	0.395	0.087	0.028	<b>0.511</b>
	ANT1	ANT4	Front Side 15mm	0.152	0.030	0.181	0.081	0.018	0.280
			Back Side 15mm	0.178	0.097	0.275	0.087	0.028	0.391
DC_7A+n66A	ANT1	ANT0	Front Side 15mm	0.074	0.159	0.233	0.081	0.018	0.332
			Back Side 15mm	0.133	0.217	0.350	0.087	0.028	0.466
	ANT3	ANT0	Front Side 15mm	0.012	0.159	0.171	0.081	0.018	0.270
			Back Side 15mm	0.025	0.217	0.243	0.087	0.028	0.358
	ANT1	ANT4	Front Side 15mm	0.074	0.030	0.104	0.081	0.018	0.203
			Back Side 15mm	0.133	0.097	0.230	0.087	0.028	0.346

	ANT3	ANT4	Front Side 15mm	0.012	0.030	0.042	0.081	0.018	0.141
			Back Side 15mm	0.025	0.097	0.123	0.087	0.028	0.238
DC_12A+n66A	ANT1	ANT0	Front Side 15mm	0.128	0.159	0.286	0.081	0.018	0.386
			Back Side 15mm	0.176	0.217	0.393	0.087	0.028	0.508
	ANT1	ANT4	Front Side 15mm	0.128	0.030	0.157	0.081	0.018	0.257
			Back Side 15mm	0.176	0.097	0.273	0.087	0.028	0.388

**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 0.511 W/kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

### 12.2.17 Body-worn Simultaneous Transmission SAR Evaluation for ENDC with WLAN5G and Bluetooth

EN-DC Configuratoin	LTE ANT	NR ANT	Position	Stand alone SAR					SUM SAR
				1	2	3	4	5	Sum SAR (3+4+5)
				LTE (State11)	NR (State11)	EN_DC	5G WIFI (Level5)	Bluetooth	
DC_7A_n5A	ANT0	ANT1	Front Side 15mm	0.126	0.100	0.226	0.277	0.018	0.521
			Back Side 15mm	0.159	0.114	0.273	0.452	0.028	0.753
	ANT4	ANT1	Front Side 15mm	0.016	0.100	0.116	0.277	0.018	0.411
			Back Side 15mm	0.076	0.114	0.189	0.452	0.028	0.670
DC_66A_n5A	ANT0	ANT1	Front Side 15mm	0.084	0.100	0.184	0.277	0.018	0.479
			Back Side 15mm	0.140	0.114	0.254	0.452	0.028	0.734
	ANT4	ANT1	Front Side 15mm	0.039	0.100	0.139	0.277	0.018	0.434
			Back Side 15mm	0.108	0.114	0.222	0.452	0.028	0.702
DC_5A_n7A	ANT1	ANT0	Front Side 15mm	0.152	0.111	0.263	0.277	0.018	0.557
			Back Side 15mm	0.178	0.155	0.333	0.452	0.028	0.814
	ANT1	ANT4	Front Side 15mm	0.152	0.018	0.170	0.277	0.018	0.465
			Back Side 15mm	0.178	0.085	0.263	0.452	0.028	0.744
DC_2A_n7A	ANT1	ANT0	Front Side 15mm	0.137	0.111	0.248	0.277	0.018	0.543
			Back Side 15mm	0.173	0.155	0.329	0.452	0.028	0.809
	ANT3	ANT0	Front Side 15mm	0.009	0.111	0.120	0.277	0.018	0.415
			Back Side 15mm	0.014	0.155	0.170	0.452	0.028	0.650
	ANT1	ANT4	Front Side 15mm	0.137	0.018	0.155	0.277	0.018	0.450
			Back Side 15mm	0.173	0.085	0.259	0.452	0.028	0.739
	ANT3	ANT4	Front Side 15mm	0.009	0.018	0.027	0.277	0.018	0.322
			Back Side 15mm	0.014	0.085	0.100	0.452	0.028	0.580
DC_66A_n7A	ANT1	ANT0	Front Side 15mm	0.150	0.111	0.261	0.277	0.018	0.556



	ANT3	ANT0	Back Side 15mm	0.159	0.155	0.314	0.452	0.028	0.795
			Front Side 15mm	0.016	0.111	0.127	0.277	0.018	0.422
			Back Side 15mm	0.035	0.155	0.191	0.452	0.028	0.671
	ANT1	ANT4	Front Side 15mm	0.150	0.018	0.169	0.277	0.018	0.464
			Back Side 15mm	0.159	0.085	0.244	0.452	0.028	0.725
	ANT3	ANT4	Front Side 15mm	0.016	0.018	0.034	0.277	0.018	0.329
Back Side 15mm			0.035	0.085	0.121	0.452	0.028	0.601	
DC_26A_n41A	ANT1	ANT0	Front Side 15mm	0.071	0.107	0.178	0.277	0.018	0.473
			Back Side 15mm	0.093	0.199	0.293	0.452	0.028	0.773
	ANT1	ANT4	Front Side 15mm	0.071	0.022	0.092	0.277	0.018	0.387
			Back Side 15mm	0.093	0.086	0.179	0.452	0.028	0.660
DC_5A+n66A	ANT1	ANT0	Front Side 15mm	0.152	0.159	0.310	0.277	0.018	0.605
			Back Side 15mm	0.178	0.217	0.395	0.452	0.028	<b>0.876</b>
	ANT1	ANT4	Front Side 15mm	0.152	0.030	0.181	0.277	0.018	0.476
			Back Side 15mm	0.178	0.097	0.275	0.452	0.028	0.756
DC_7A+n66A	ANT1	ANT0	Front Side 15mm	0.074	0.159	0.233	0.277	0.018	0.528
			Back Side 15mm	0.133	0.217	0.350	0.452	0.028	0.831
	ANT3	ANT0	Front Side 15mm	0.012	0.159	0.171	0.277	0.018	0.465
			Back Side 15mm	0.025	0.217	0.243	0.452	0.028	0.723
	ANT1	ANT4	Front Side 15mm	0.074	0.030	0.104	0.277	0.018	0.399
			Back Side 15mm	0.133	0.097	0.230	0.452	0.028	0.711
	ANT3	ANT4	Front Side 15mm	0.012	0.030	0.042	0.277	0.018	0.336
			Back Side 15mm	0.025	0.097	0.123	0.452	0.028	0.603
DC_12A+n66A	ANT1	ANT0	Front Side 15mm	0.128	0.159	0.286	0.277	0.018	0.581
			Back Side 15mm	0.176	0.217	0.393	0.452	0.028	0.873
	ANT1	ANT4	Front Side 15mm	0.128	0.030	0.157	0.277	0.018	0.452
			Back Side 15mm	0.176	0.097	0.273	0.452	0.028	0.753

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

### 12.2.18 Body-worn Simultaneous Transmission SAR Evaluation for ENDC Antenna with WLAN and Bluetooth

EN-DC Configuratoion	LTE ANT	NR ANT	Position	Stand alone SAR						SUM SAR
				1	2	3	4	5	6	Sum SAR (3+4+5+6)
				LTE (State11)	NR (State11)	EN_DC	2.4G WIFI (Level5)	5G WIFI (Level5)	Bluetooth	
DC_7A_n5A	ANT0	ANT1	Front Side 15mm	0.126	0.100	0.226	0.081	0.277	0.018	0.521
			Back Side 15mm	0.159	0.114	0.273	0.087	0.452	0.028	0.753
	ANT4	ANT1	Front Side 15mm	0.016	0.100	0.116	0.081	0.277	0.018	0.492

			Back Side 15mm	0.076	0.114	0.189	0.087	0.452	0.028	0.757
DC_66A_n5A	ANT0	ANT1	Front Side 15mm	0.084	0.100	0.184	0.081	0.277	0.018	0.560
			Back Side 15mm	0.140	0.114	0.254	0.087	0.452	0.028	0.821
	ANT4	ANT1	Front Side 15mm	0.039	0.100	0.139	0.081	0.277	0.018	0.515
			Back Side 15mm	0.108	0.114	0.222	0.087	0.452	0.028	0.789
DC_5A_n7A	ANT1	ANT0	Front Side 15mm	0.152	0.111	0.263	0.081	0.277	0.018	0.639
			Back Side 15mm	0.178	0.155	0.333	0.087	0.452	0.028	0.901
	ANT1	ANT4	Front Side 15mm	0.152	0.018	0.170	0.081	0.277	0.018	0.546
			Back Side 15mm	0.178	0.085	0.263	0.087	0.452	0.028	0.831
DC_2A_n7A	ANT1	ANT0	Front Side 15mm	0.137	0.111	0.248	0.081	0.277	0.018	0.624
			Back Side 15mm	0.173	0.155	0.329	0.087	0.452	0.028	0.896
	ANT3	ANT0	Front Side 15mm	0.009	0.111	0.120	0.081	0.277	0.018	0.496
			Back Side 15mm	0.014	0.155	0.170	0.087	0.452	0.028	0.738
	ANT1	ANT4	Front Side 15mm	0.137	0.018	0.155	0.081	0.277	0.018	0.531
			Back Side 15mm	0.173	0.085	0.259	0.087	0.452	0.028	0.826
	ANT3	ANT4	Front Side 15mm	0.009	0.018	0.027	0.081	0.277	0.018	0.403
			Back Side 15mm	0.014	0.085	0.100	0.087	0.452	0.028	0.668
DC_66A_n7A	ANT1	ANT0	Front Side 15mm	0.150	0.111	0.261	0.081	0.277	0.018	0.637
			Back Side 15mm	0.159	0.155	0.314	0.087	0.452	0.028	0.882
	ANT3	ANT0	Front Side 15mm	0.016	0.111	0.127	0.081	0.277	0.018	0.503
			Back Side 15mm	0.035	0.155	0.191	0.087	0.452	0.028	0.758
	ANT1	ANT4	Front Side 15mm	0.150	0.018	0.169	0.081	0.277	0.018	0.545
			Back Side 15mm	0.159	0.085	0.244	0.087	0.452	0.028	0.812

	ANT3	ANT4	Front Side 15mm	0.016	0.018	0.034	0.081	0.277	0.018	0.410
			Back Side 15mm	0.035	0.085	0.121	0.087	0.452	0.028	0.688
DC_26A_n41A	ANT1	ANT0	Front Side 15mm	0.071	0.107	0.178	0.081	0.277	0.018	0.554
			Back Side 15mm	0.093	0.199	0.293	0.087	0.452	0.028	0.860
	ANT1	ANT4	Front Side 15mm	0.071	0.022	0.092	0.081	0.277	0.018	0.468
			Back Side 15mm	0.093	0.086	0.179	0.087	0.452	0.028	0.747
DC_5A+n66A	ANT1	ANT0	Front Side 15mm	0.152	0.159	0.310	0.081	0.277	0.018	0.686
			Back Side 15mm	0.178	0.217	0.395	0.087	0.452	0.028	<b>0.963</b>
	ANT1	ANT4	Front Side 15mm	0.152	0.030	0.181	0.081	0.277	0.018	0.557
			Back Side 15mm	0.178	0.097	0.275	0.087	0.452	0.028	0.843
DC_7A+n66A	ANT1	ANT0	Front Side 15mm	0.074	0.159	0.233	0.081	0.277	0.018	0.609
			Back Side 15mm	0.133	0.217	0.350	0.087	0.452	0.028	0.918
	ANT3	ANT0	Front Side 15mm	0.012	0.159	0.171	0.081	0.277	0.018	0.547
			Back Side 15mm	0.025	0.217	0.243	0.087	0.452	0.028	0.810
	ANT1	ANT4	Front Side 15mm	0.074	0.030	0.104	0.081	0.277	0.018	0.480
			Back Side 15mm	0.133	0.097	0.230	0.087	0.452	0.028	0.798
	ANT3	ANT4	Front Side 15mm	0.012	0.030	0.042	0.081	0.277	0.018	0.418
			Back Side 15mm	0.025	0.097	0.123	0.087	0.452	0.028	0.691
DC_12A+n66A	ANT1	ANT0	Front Side 15mm	0.128	0.159	0.286	0.081	0.277	0.018	0.662
			Back Side 15mm	0.176	0.217	0.393	0.087	0.452	0.028	0.961
	ANT1	ANT4	Front Side 15mm	0.128	0.030	0.157	0.081	0.277	0.018	0.533
			Back Side 15mm	0.176	0.097	0.273	0.087	0.452	0.028	0.841

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

### 12.2.19 Hotspot Simultaneous Transmission SAR Evaluation for ENDC

EN-DC Configuratioin	LTE ANT	NR ANT	Position	Stand alone SAR		SUM SAR
				1	2	Sum SAR
				LTE (State15)	NR (State15)	(1+2)
DC_7A_n5A	ANT0	ANT1	Front Side 10mm	0.206	0.160	0.366
			Back Side 10mm	0.286	0.197	0.482
			Left Edge 10mm	0.123	0.000	0.123
			Right Edge 10mm	0.024	0.114	0.138
			Top Edge 10mm	0.171	0.171	0.343
			Bottom Edge 10mm	0.000	0.000	0.000
	ANT4	ANT1	Front Side 10mm	0.046	0.160	0.206
			Back Side 10mm	0.230	0.197	0.426
			Left Edge 10mm	0.000	0.000	0.000
			Right Edge 10mm	0.131	0.114	0.245
			Top Edge 10mm	0.017	0.171	0.188
			Bottom Edge 10mm	0.000	0.000	0.000
DC_66A_n5A	ANT0	ANT1	Front Side 10mm	0.190	0.160	0.350
			Back Side 10mm	0.281	0.197	0.477
			Left Edge 10mm	0.065	0.000	0.065
			Right Edge 10mm	0.043	0.114	0.157
			Top Edge 10mm	0.468	0.171	0.640
			Bottom Edge 10mm	0.000	0.000	0.000
	ANT4	ANT1	Front Side 10mm	0.063	0.160	0.223
			Back Side 10mm	0.311	0.197	0.507
			Left Edge 10mm	0.000	0.000	0.000
			Right Edge 10mm	0.183	0.114	0.297
			Top Edge 10mm	0.024	0.171	0.195
			Bottom Edge 10mm	0.000	0.000	0.000
DC_5A_n7A	ANT1	ANT0	Front Side 10mm	0.175	0.346	0.521
			Back Side 10mm	0.216	0.462	0.678
			Left Edge 10mm	0.000	0.192	0.192
			Right Edge 10mm	0.189	0.039	0.228
			Top Edge 10mm	0.210	0.300	0.510
			Bottom Edge 10mm	0.000	0.000	0.000
	ANT1	ANT4	Front Side 10mm	0.175	0.056	0.231
			Back Side 10mm	0.216	0.302	0.518
			Left Edge 10mm	0.000	0.150	0.150
			Right Edge 10mm	0.189	0.000	0.189

			Top Edge 10mm	0.210	0.024	0.234
			Bottom Edge 10mm	0.000	0.000	0.000
DC_2A_n7A	ANT1	ANT0	Front Side 10mm	0.171	0.346	0.517
			Back Side 10mm	0.192	0.462	0.654
			Left Edge 10mm	0.000	0.192	0.192
			Right Edge 10mm	0.041	0.039	0.080
			Top Edge 10mm	0.316	0.300	0.616
			Bottom Edge 10mm	0.000	0.000	0.000
			ANT3	ANT0	Front Side 10mm	0.011
	Back Side 10mm	0.021			0.462	0.483
	Left Edge 10mm	0.024			0.192	0.217
	Right Edge 10mm	0.000			0.039	0.039
	Top Edge 10mm	0.000			0.300	0.300
	Bottom Edge 10mm	0.000			0.000	0.000
	ANT1	ANT4	Front Side 10mm	0.171	0.056	0.227
			Back Side 10mm	0.192	0.302	0.494
			Left Edge 10mm	0.000	0.150	0.150
			Right Edge 10mm	0.041	0.000	0.041
			Top Edge 10mm	0.316	0.024	0.340
			Bottom Edge 10mm	0.000	0.000	0.000
	ANT3	ANT4	Front Side 10mm	0.011	0.056	0.067
			Back Side 10mm	0.021	0.302	0.323
			Left Edge 10mm	0.024	0.150	0.175
			Right Edge 10mm	0.000	0.000	0.000
			Top Edge 10mm	0.000	0.024	0.024
			Bottom Edge 10mm	0.000	0.000	0.000
DC_66A_n7A	ANT1	ANT0	Front Side 10mm	0.402	0.346	0.748
			Back Side 10mm	0.426	0.462	0.887
			Left Edge 10mm	0.000	0.192	0.192
			Right Edge 10mm	0.096	0.039	0.135
			Top Edge 10mm	0.720	0.300	<b>1.020</b>
			Bottom Edge 10mm	0.000	0.000	0.000
	ANT3	ANT0	Front Side 10mm	0.048	0.346	0.394
			Back Side 10mm	0.123	0.462	0.585
			Left Edge 10mm	0.176	0.192	0.369
			Right Edge 10mm	0.000	0.039	0.039
			Top Edge 10mm	0.000	0.300	0.300
			Bottom Edge 10mm	0.000	0.000	0.000
	ANT1	ANT4	Front Side 10mm	0.402	0.056	0.458
			Back Side 10mm	0.426	0.302	0.727
			Left Edge 10mm	0.000	0.150	0.150
			Right Edge 10mm	0.096	0.000	0.096
			Top Edge 10mm	0.720	0.024	0.744
			Bottom Edge 10mm	0.000	0.000	0.000
	ANT3	ANT4	Front Side 10mm	0.048	0.056	0.105

			Back Side 10mm	0.123	0.302	0.425	
			Left Edge 10mm	0.176	0.150	0.326	
			Right Edge 10mm	0.000	0.000	0.000	
			Top Edge 10mm	0.000	0.024	0.024	
			Bottom Edge 10mm	0.000	0.000	0.000	
DC_26A_n41A	ANT1	ANT0	Front Side 10mm	0.090	0.351	0.442	
			Back Side 10mm	0.107	0.537	0.644	
			Left Edge 10mm	0.000	0.142	0.142	
			Right Edge 10mm	0.054	0.050	0.104	
			Top Edge 10mm	0.098	0.263	0.361	
				Bottom Edge 10mm	0.000	0.000	0.000
	ANT1	ANT4	Front Side 10mm	0.090	0.046	0.136	
			Back Side 10mm	0.107	0.232	0.339	
			Left Edge 10mm	0.000	0.120	0.120	
			Right Edge 10mm	0.054	0.000	0.054	
Top Edge 10mm			0.098	0.000	0.098		
			Bottom Edge 10mm	0.000	0.000	0.000	
DC_5A+n66A	ANT1	ANT0	Front Side 10mm	0.175	0.316	0.491	
			Back Side 10mm	0.216	0.346	0.562	
			Left Edge 10mm	0.000	0.000	0.000	
			Right Edge 10mm	0.189	0.087	0.275	
			Top Edge 10mm	0.210	0.534	0.744	
				Bottom Edge 10mm	0.000	0.000	0.000
	ANT1	ANT4	Front Side 10mm	0.175	0.068	0.243	
			Back Side 10mm	0.216	0.320	0.536	
			Left Edge 10mm	0.000	0.000	0.000	
			Right Edge 10mm	0.189	0.191	0.379	
Top Edge 10mm			0.210	0.024	0.234		
			Bottom Edge 10mm	0.000	0.000	0.000	
DC_7A+n66A	ANT1	ANT0	Front Side 10mm	0.095	0.316	0.411	
			Back Side 10mm	0.201	0.346	0.547	
			Left Edge 10mm	0.000	0.000	0.000	
			Right Edge 10mm	0.041	0.087	0.127	
			Top Edge 10mm	0.296	0.534	0.830	
				Bottom Edge 10mm	0.000	0.000	0.000
	ANT3	ANT0	Front Side 10mm	0.037	0.316	0.353	
			Back Side 10mm	0.094	0.346	0.440	
			Left Edge 10mm	0.136	0.000	0.136	
			Right Edge 10mm	0.000	0.087	0.087	
			Top Edge 10mm	0.000	0.534	0.534	
				Bottom Edge 10mm	0.000	0.000	0.000
	ANT1	ANT4	Front Side 10mm	0.095	0.068	0.163	
Back Side 10mm			0.201	0.320	0.521		
Left Edge 10mm			0.000	0.000	0.000		
Right Edge 10mm			0.041	0.191	0.232		

			Top Edge 10mm	0.296	0.024	0.320
			Bottom Edge 10mm	0.000	0.000	0.000
	ANT3	ANT4	Front Side 10mm	0.037	0.068	0.105
			Back Side 10mm	0.094	0.320	0.414
			Left Edge 10mm	0.136	0.000	0.136
			Right Edge 10mm	0.000	0.191	0.191
			Top Edge 10mm	0.000	0.024	0.024
			Bottom Edge 10mm	0.000	0.000	0.000
DC_12A+n66A	ANT1	ANT0	Front Side 10mm	0.112	0.316	0.428
			Back Side 10mm	0.147	0.346	0.493
			Left Edge 10mm	0.000	0.000	0.000
			Right Edge 10mm	0.159	0.087	0.246
			Top Edge 10mm	0.110	0.534	0.644
			Bottom Edge 10mm	0.000	0.000	0.000
	ANT1	ANT4	Front Side 10mm	0.112	0.068	0.180
			Back Side 10mm	0.147	0.320	0.467
			Left Edge 10mm	0.000	0.000	0.000
			Right Edge 10mm	0.159	0.191	0.350
			Top Edge 10mm	0.110	0.024	0.134
			Bottom Edge 10mm	0.000	0.000	0.000

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

## 12.2.20 Hotspot Simultaneous Transmission SAR Evaluation for ENDC with WLAN2.4G and Bluetooth

EN-DC Configuratoion	LTE ANT	NR ANT	Position	Stand alone SAR					SUM SAR
				1	2	3	4	5	
				LTE (State15)	NR (State15)	EN_DC	2.4G WIFI (Level7)	Bluetooth	Sum SAR (3+4+5)
DC_7A_n5A	ANT0	ANT1	Front Side 10mm	0.206	0.160	0.366	0.064	0.073	0.502
			Back Side 10mm	0.286	0.197	0.482	0.183	0.108	0.774
			Left Edge 10mm	0.123	0.000	0.123	0.070	0.066	0.259
			Right Edge 10mm	0.024	0.114	0.138	0.000	0.000	0.138
			Top Edge 10mm	0.171	0.171	0.343	0.091	0.073	0.507
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
	ANT4	ANT1	Front Side 10mm	0.046	0.160	0.206	0.064	0.073	0.342
			Back Side 10mm	0.230	0.197	0.426	0.183	0.108	0.718
			Left Edge 10mm	0.000	0.000	0.000	0.070	0.066	0.136
			Right Edge 10mm	0.131	0.114	0.245	0.000	0.000	0.245
			Top Edge 10mm	0.017	0.171	0.188	0.091	0.073	0.352
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
DC_66A_n5A	ANT0	ANT1	Front Side 10mm	0.190	0.160	0.350	0.064	0.073	0.487

			Back Side 10mm	0.281	0.197	0.477	0.183	0.108	0.769
			Left Edge 10mm	0.065	0.000	0.065	0.070	0.066	0.201
			Right Edge 10mm	0.043	0.114	0.157	0.000	0.000	0.157
			Top Edge 10mm	0.468	0.171	0.640	0.091	0.073	0.804
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
	ANT4	ANT1	Front Side 10mm	0.063	0.160	0.223	0.064	0.073	0.360
			Back Side 10mm	0.311	0.197	0.507	0.183	0.108	0.799
			Left Edge 10mm	0.000	0.000	0.000	0.070	0.066	0.136
			Right Edge 10mm	0.183	0.114	0.297	0.000	0.000	0.297
			Top Edge 10mm	0.024	0.171	0.195	0.091	0.073	0.360
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
DC_5A_n7A	ANT1	ANT0	Front Side 10mm	0.175	0.346	0.521	0.064	0.073	0.658
			Back Side 10mm	0.216	0.462	0.678	0.183	0.108	0.969
			Left Edge 10mm	0.000	0.192	0.192	0.070	0.066	0.328
			Right Edge 10mm	0.189	0.039	0.228	0.000	0.000	0.228
			Top Edge 10mm	0.210	0.300	0.510	0.091	0.073	0.674
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
	ANT1	ANT4	Front Side 10mm	0.175	0.056	0.231	0.064	0.073	0.368
			Back Side 10mm	0.216	0.302	0.518	0.183	0.108	0.809
			Left Edge 10mm	0.000	0.150	0.150	0.070	0.066	0.286
			Right Edge 10mm	0.189	0.000	0.189	0.000	0.000	0.189
			Top Edge 10mm	0.210	0.024	0.234	0.091	0.073	0.398
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
DC_2A_n7A	ANT1	ANT0	Front Side 10mm	0.171	0.346	0.517	0.064	0.073	0.653
			Back Side 10mm	0.192	0.462	0.654	0.183	0.108	0.945
			Left Edge 10mm	0.000	0.192	0.192	0.070	0.066	0.328
			Right Edge 10mm	0.041	0.039	0.080	0.000	0.000	0.080
			Top Edge 10mm	0.316	0.300	0.616	0.091	0.073	0.780
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
	ANT3	ANT0	Front Side 10mm	0.011	0.346	0.357	0.064	0.073	0.494
			Back Side 10mm	0.021	0.462	0.483	0.183	0.108	0.774
			Left Edge 10mm	0.024	0.192	0.217	0.070	0.066	0.353
			Right Edge 10mm	0.000	0.039	0.039	0.000	0.000	0.039
			Top Edge 10mm	0.000	0.300	0.300	0.091	0.073	0.464
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
	ANT1	ANT4	Front Side 10mm	0.171	0.056	0.227	0.064	0.073	0.364
			Back Side 10mm	0.192	0.302	0.494	0.183	0.108	0.785
			Left Edge 10mm	0.000	0.150	0.150	0.070	0.066	0.286
			Right Edge 10mm	0.041	0.000	0.041	0.000	0.000	0.041
			Top Edge 10mm	0.316	0.024	0.340	0.091	0.073	0.504
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
ANT3	ANT4	Front Side 10mm	0.011	0.056	0.067	0.064	0.073	0.204	
		Back Side 10mm	0.021	0.302	0.323	0.183	0.108	0.614	
		Left Edge 10mm	0.024	0.150	0.175	0.070	0.066	0.310	
		Right Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	



			Top Edge 10mm	0.000	0.024	0.024	0.091	0.073	0.188
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
DC_66A_n7A	ANT1	ANT0	Front Side 10mm	0.402	0.346	0.748	0.064	0.073	0.885
			Back Side 10mm	0.426	0.462	0.887	0.183	0.108	1.178
			Left Edge 10mm	0.000	0.192	0.192	0.070	0.066	0.328
			Right Edge 10mm	0.096	0.039	0.135	0.000	0.000	0.135
			Top Edge 10mm	0.720	0.300	1.020	0.091	0.073	<b>1.184</b>
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
			Front Side 10mm	0.048	0.346	0.394	0.064	0.073	0.531
	ANT3	ANT0	Back Side 10mm	0.123	0.462	0.585	0.183	0.108	0.876
			Left Edge 10mm	0.176	0.192	0.369	0.070	0.066	0.505
			Right Edge 10mm	0.000	0.039	0.039	0.000	0.000	0.039
			Top Edge 10mm	0.000	0.300	0.300	0.091	0.073	0.464
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
			Front Side 10mm	0.402	0.056	0.458	0.064	0.073	0.595
	ANT1	ANT4	Back Side 10mm	0.426	0.302	0.727	0.183	0.108	1.019
			Left Edge 10mm	0.000	0.150	0.150	0.070	0.066	0.286
			Right Edge 10mm	0.096	0.000	0.096	0.000	0.000	0.096
			Top Edge 10mm	0.720	0.024	0.744	0.091	0.073	0.908
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
			Front Side 10mm	0.048	0.056	0.105	0.064	0.073	0.241
	ANT3	ANT4	Back Side 10mm	0.123	0.302	0.425	0.183	0.108	0.717
			Left Edge 10mm	0.176	0.150	0.326	0.070	0.066	0.462
			Right Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
			Top Edge 10mm	0.000	0.024	0.024	0.091	0.073	0.188
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
Front Side 10mm			0.090	0.351	0.442	0.064	0.073	0.578	
DC_26A_n41A	ANT1	ANT0	Back Side 10mm	0.107	0.537	0.644	0.183	0.108	0.935
			Left Edge 10mm	0.000	0.142	0.142	0.070	0.066	0.278
			Right Edge 10mm	0.054	0.050	0.104	0.000	0.000	0.104
			Top Edge 10mm	0.098	0.263	0.361	0.091	0.073	0.525
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
			Front Side 10mm	0.090	0.046	0.136	0.064	0.073	0.273
	ANT1	ANT4	Back Side 10mm	0.107	0.232	0.339	0.183	0.108	0.630
			Left Edge 10mm	0.000	0.120	0.120	0.070	0.066	0.256
			Right Edge 10mm	0.054	0.000	0.054	0.000	0.000	0.054
			Top Edge 10mm	0.098	0.000	0.098	0.091	0.073	0.262
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
			Front Side 10mm	0.175	0.316	0.491	0.064	0.073	0.628
DC_5A+n66A	ANT1	ANT0	Back Side 10mm	0.216	0.346	0.562	0.183	0.108	0.853
			Left Edge 10mm	0.000	0.000	0.000	0.070	0.066	0.136
			Right Edge 10mm	0.189	0.087	0.275	0.000	0.000	0.275
			Top Edge 10mm	0.210	0.534	0.744	0.091	0.073	0.908
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
			Front Side 10mm	0.175	0.068	0.243	0.064	0.073	0.380
	ANT1	ANT4							

			Back Side 10mm	0.216	0.320	0.536	0.183	0.108	0.828
			Left Edge 10mm	0.000	0.000	0.000	0.070	0.066	0.136
			Right Edge 10mm	0.189	0.191	0.379	0.000	0.000	0.379
			Top Edge 10mm	0.210	0.024	0.234	0.091	0.073	0.398
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
DC_7A+n66A	ANT1	ANT0	Front Side 10mm	0.095	0.316	0.411	0.064	0.073	0.548
			Back Side 10mm	0.201	0.346	0.547	0.183	0.108	0.838
			Left Edge 10mm	0.000	0.000	0.000	0.070	0.066	0.136
			Right Edge 10mm	0.041	0.087	0.127	0.000	0.000	0.127
			Top Edge 10mm	0.296	0.534	0.830	0.091	0.073	0.994
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
	ANT3	ANT0	Front Side 10mm	0.037	0.316	0.353	0.064	0.073	0.490
			Back Side 10mm	0.094	0.346	0.440	0.183	0.108	0.731
			Left Edge 10mm	0.136	0.000	0.136	0.070	0.066	0.272
			Right Edge 10mm	0.000	0.087	0.087	0.000	0.000	0.087
			Top Edge 10mm	0.000	0.534	0.534	0.091	0.073	0.698
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
	ANT1	ANT4	Front Side 10mm	0.095	0.068	0.163	0.064	0.073	0.300
			Back Side 10mm	0.201	0.320	0.521	0.183	0.108	0.813
			Left Edge 10mm	0.000	0.000	0.000	0.070	0.066	0.136
			Right Edge 10mm	0.041	0.191	0.232	0.000	0.000	0.232
			Top Edge 10mm	0.296	0.024	0.320	0.091	0.073	0.484
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
	ANT3	ANT4	Front Side 10mm	0.037	0.068	0.105	0.064	0.073	0.241
			Back Side 10mm	0.094	0.320	0.414	0.183	0.108	0.706
			Left Edge 10mm	0.136	0.000	0.136	0.070	0.066	0.272
			Right Edge 10mm	0.000	0.191	0.191	0.000	0.000	0.191
			Top Edge 10mm	0.000	0.024	0.024	0.091	0.073	0.188
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
DC_12A+n66A	ANT1	ANT0	Front Side 10mm	0.112	0.316	0.428	0.064	0.073	0.565
			Back Side 10mm	0.147	0.346	0.493	0.183	0.108	0.784
			Left Edge 10mm	0.000	0.000	0.000	0.070	0.066	0.136
			Right Edge 10mm	0.159	0.087	0.246	0.000	0.000	0.246
			Top Edge 10mm	0.110	0.534	0.644	0.091	0.073	0.808
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
	ANT1	ANT4	Front Side 10mm	0.112	0.068	0.180	0.064	0.073	0.317
			Back Side 10mm	0.147	0.320	0.467	0.183	0.108	0.759
			Left Edge 10mm	0.000	0.000	0.000	0.070	0.066	0.136
			Right Edge 10mm	0.159	0.191	0.350	0.000	0.000	0.350
			Top Edge 10mm	0.110	0.024	0.134	0.091	0.073	0.298
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000

**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 1.184 W/kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

## 12.2.21 Hotspot Simultaneous Transmission SAR Evaluation for ENDC with WLAN5G and Bluetooth

EN-DC Configuratoion	LTE ANT	NR ANT	Position	Stand alone SAR					SUM SAR
				1	2	3	4	5	
				LTE (State19)	NR (State19)	EN_DC	5G WIFI (Level7)	Bluetooth	Sum SAR (3+4+5)
DC_7A_n5A	ANT0	ANT1	Front Side 10mm	0.206	0.160	0.366	0.099	0.073	0.537
			Back Side 10mm	0.286	0.197	0.482	0.149	0.108	0.739
			Left Edge 10mm	0.123	0.000	0.123	0.128	0.066	0.316
			Right Edge 10mm	0.024	0.114	0.138	0.000	0.000	0.138
			Top Edge 10mm	0.171	0.171	0.343	0.216	0.073	0.632
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
	ANT4	ANT1	Front Side 10mm	0.041	0.160	0.201	0.099	0.073	0.372
			Back Side 10mm	0.205	0.197	0.401	0.149	0.108	0.658
			Left Edge 10mm	0.000	0.000	0.000	0.128	0.066	0.194
			Right Edge 10mm	0.117	0.114	0.230	0.000	0.000	0.230
			Top Edge 10mm	0.015	0.171	0.186	0.216	0.073	0.476
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
DC_66A_n5A	ANT0	ANT1	Front Side 10mm	0.190	0.160	0.350	0.099	0.073	0.521
			Back Side 10mm	0.281	0.197	0.477	0.149	0.108	0.734
			Left Edge 10mm	0.065	0.000	0.065	0.128	0.066	0.259
			Right Edge 10mm	0.043	0.114	0.157	0.000	0.000	0.157
			Top Edge 10mm	0.468	0.171	0.640	0.216	0.073	0.929
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
	ANT4	ANT1	Front Side 10mm	0.063	0.160	0.223	0.099	0.073	0.394
			Back Side 10mm	0.311	0.197	0.507	0.149	0.108	0.764
			Left Edge 10mm	0.000	0.000	0.000	0.128	0.066	0.194
			Right Edge 10mm	0.183	0.114	0.297	0.000	0.000	0.297
			Top Edge 10mm	0.024	0.171	0.195	0.216	0.073	0.485
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
DC_5A_n7A	ANT1	ANT0	Front Side 10mm	0.175	0.346	0.521	0.099	0.073	0.693
			Back Side 10mm	0.216	0.462	0.678	0.149	0.108	0.935
			Left Edge 10mm	0.000	0.192	0.192	0.128	0.066	0.386
			Right Edge 10mm	0.189	0.039	0.228	0.000	0.000	0.228
			Top Edge 10mm	0.210	0.300	0.510	0.216	0.073	0.799
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
	ANT1	ANT4	Front Side 10mm	0.175	0.056	0.231	0.099	0.073	0.403
			Back Side 10mm	0.216	0.302	0.518	0.149	0.108	0.775
			Left Edge 10mm	0.000	0.150	0.150	0.128	0.066	0.344
			Right Edge 10mm	0.189	0.000	0.189	0.000	0.000	0.189
			Top Edge 10mm	0.210	0.024	0.234	0.216	0.073	0.523
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
DC_2A_n7A	ANT1	ANT0	Front Side 10mm	0.171	0.346	0.517	0.099	0.073	0.688
			Back Side 10mm	0.192	0.462	0.654	0.149	0.108	0.910
			Left Edge 10mm	0.000	0.192	0.192	0.128	0.066	0.386

			Right Edge 10mm	0.041	0.039	0.080	0.000	0.000	0.080
			Top Edge 10mm	0.316	0.300	0.616	0.216	0.073	0.905
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
	ANT3	ANT0	Front Side 10mm	0.011	0.346	0.357	0.099	0.073	0.528
			Back Side 10mm	0.021	0.462	0.483	0.149	0.108	0.740
			Left Edge 10mm	0.024	0.192	0.217	0.128	0.066	0.410
			Right Edge 10mm	0.000	0.039	0.039	0.000	0.000	0.039
			Top Edge 10mm	0.000	0.300	0.300	0.216	0.073	0.589
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
			Front Side 10mm	0.171	0.056	0.227	0.099	0.073	0.398
	ANT1	ANT4	Back Side 10mm	0.192	0.302	0.494	0.149	0.108	0.751
			Left Edge 10mm	0.000	0.150	0.150	0.128	0.066	0.344
			Right Edge 10mm	0.041	0.000	0.041	0.000	0.000	0.041
			Top Edge 10mm	0.316	0.024	0.340	0.216	0.073	0.629
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
			Front Side 10mm	0.011	0.056	0.067	0.099	0.073	0.239
	ANT3	ANT4	Back Side 10mm	0.021	0.302	0.323	0.149	0.108	0.580
			Left Edge 10mm	0.024	0.150	0.175	0.128	0.066	0.368
			Right Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
			Top Edge 10mm	0.000	0.024	0.024	0.216	0.073	0.313
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
DC_66A_n7A	ANT1	ANT0	Front Side 10mm	0.402	0.346	0.748	0.099	0.073	0.920
			Back Side 10mm	0.426	0.462	0.887	0.149	0.108	1.144
			Left Edge 10mm	0.000	0.192	0.192	0.128	0.066	0.386
			Right Edge 10mm	0.096	0.039	0.135	0.000	0.000	0.135
			Top Edge 10mm	0.720	0.300	1.020	0.216	0.073	<b>1.309</b>
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
	ANT3	ANT0	Front Side 10mm	0.048	0.346	0.394	0.099	0.073	0.566
			Back Side 10mm	0.123	0.462	0.585	0.149	0.108	0.842
			Left Edge 10mm	0.176	0.192	0.369	0.128	0.066	0.562
			Right Edge 10mm	0.000	0.039	0.039	0.000	0.000	0.039
			Top Edge 10mm	0.000	0.300	0.300	0.216	0.073	0.589
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
	ANT1	ANT4	Front Side 10mm	0.402	0.056	0.458	0.099	0.073	0.630
			Back Side 10mm	0.426	0.302	0.727	0.149	0.108	0.984
			Left Edge 10mm	0.000	0.150	0.150	0.128	0.066	0.344
			Right Edge 10mm	0.096	0.000	0.096	0.000	0.000	0.096
			Top Edge 10mm	0.720	0.024	0.744	0.216	0.073	1.033
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
	ANT3	ANT4	Front Side 10mm	0.048	0.056	0.105	0.099	0.073	0.276
			Back Side 10mm	0.123	0.302	0.425	0.149	0.108	0.682
			Left Edge 10mm	0.176	0.150	0.326	0.128	0.066	0.520
Right Edge 10mm			0.000	0.000	0.000	0.000	0.000	0.000	
Top Edge 10mm			0.000	0.024	0.024	0.216	0.073	0.313	
Bottom Edge 10mm			0.000	0.000	0.000	0.000	0.000	0.000	

DC_26A_n41A	ANT1	ANT0	Front Side 10mm	0.090	0.351	0.442	0.099	0.073	0.613
			Back Side 10mm	0.107	0.537	0.644	0.149	0.108	0.901
			Left Edge 10mm	0.000	0.142	0.142	0.128	0.066	0.336
			Right Edge 10mm	0.054	0.050	0.104	0.000	0.000	0.104
			Top Edge 10mm	0.098	0.263	0.361	0.216	0.073	0.650
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
	ANT1	ANT4	Front Side 10mm	0.090	0.046	0.136	0.099	0.073	0.308
			Back Side 10mm	0.107	0.232	0.339	0.149	0.108	0.595
			Left Edge 10mm	0.000	0.120	0.120	0.128	0.066	0.313
			Right Edge 10mm	0.054	0.000	0.054	0.000	0.000	0.054
			Top Edge 10mm	0.098	0.000	0.098	0.216	0.073	0.387
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
DC_5A+n66A	ANT1	ANT0	Front Side 10mm	0.175	0.316	0.491	0.099	0.073	0.663
			Back Side 10mm	0.216	0.346	0.562	0.149	0.108	0.819
			Left Edge 10mm	0.000	0.000	0.000	0.128	0.066	0.194
			Right Edge 10mm	0.189	0.087	0.275	0.000	0.000	0.275
			Top Edge 10mm	0.210	0.534	0.744	0.216	0.073	1.033
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
	ANT1	ANT4	Front Side 10mm	0.175	0.068	0.243	0.099	0.073	0.414
			Back Side 10mm	0.216	0.320	0.536	0.149	0.108	0.793
			Left Edge 10mm	0.000	0.000	0.000	0.128	0.066	0.194
			Right Edge 10mm	0.189	0.191	0.379	0.000	0.000	0.379
			Top Edge 10mm	0.210	0.024	0.234	0.216	0.073	0.523
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
DC_7A+n66A	ANT1	ANT0	Front Side 10mm	0.066	0.316	0.382	0.099	0.073	0.554
			Back Side 10mm	0.150	0.346	0.496	0.149	0.108	0.753
			Left Edge 10mm	0.000	0.000	0.000	0.128	0.066	0.194
			Right Edge 10mm	0.029	0.087	0.116	0.000	0.000	0.116
			Top Edge 10mm	0.196	0.534	0.730	0.216	0.073	1.019
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
	ANT3	ANT0	Front Side 10mm	0.037	0.316	0.353	0.099	0.073	0.524
			Back Side 10mm	0.094	0.346	0.440	0.149	0.108	0.697
			Left Edge 10mm	0.136	0.000	0.136	0.128	0.066	0.329
			Right Edge 10mm	0.000	0.087	0.087	0.000	0.000	0.087
			Top Edge 10mm	0.000	0.534	0.534	0.216	0.073	0.823
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
	ANT1	ANT4	Front Side 10mm	0.066	0.068	0.134	0.099	0.073	0.305
			Back Side 10mm	0.150	0.320	0.470	0.149	0.108	0.727
			Left Edge 10mm	0.000	0.000	0.000	0.128	0.066	0.194
			Right Edge 10mm	0.029	0.191	0.220	0.000	0.000	0.220
			Top Edge 10mm	0.196	0.024	0.220	0.216	0.073	0.509
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
	ANT3	ANT4	Front Side 10mm	0.037	0.068	0.105	0.099	0.073	0.276
			Back Side 10mm	0.094	0.320	0.414	0.149	0.108	0.671
			Left Edge 10mm	0.136	0.000	0.136	0.128	0.066	0.329

DC_12A+n66A			Right Edge 10mm	0.000	0.191	0.191	0.000	0.000	0.191
			Top Edge 10mm	0.000	0.024	0.024	0.216	0.073	0.313
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
	ANT1	ANT0	Front Side 10mm	0.112	0.316	0.428	0.099	0.073	0.600
			Back Side 10mm	0.147	0.346	0.493	0.149	0.108	0.750
			Left Edge 10mm	0.000	0.000	0.000	0.128	0.066	0.194
			Right Edge 10mm	0.159	0.087	0.246	0.000	0.000	0.246
			Top Edge 10mm	0.110	0.534	0.644	0.216	0.073	0.933
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
	ANT1	ANT4	Front Side 10mm	0.112	0.068	0.180	0.099	0.073	0.351
			Back Side 10mm	0.147	0.320	0.467	0.149	0.108	0.724
			Left Edge 10mm	0.000	0.000	0.000	0.128	0.066	0.194
Right Edge 10mm			0.159	0.191	0.350	0.000	0.000	0.350	
Top Edge 10mm			0.110	0.024	0.134	0.216	0.073	0.423	
Bottom Edge 10mm			0.000	0.000	0.000	0.000	0.000	0.000	

**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 1.309 W/kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

### 12.2.22 Hotspot Simultaneous Transmission SAR Evaluation for ENDC Antenna with WLAN and Bluetooth

EN-DC Configuratoion	LTE ANT	NR ANT	Position	Stand alone SAR						SUM SAR
				1	2	3	4	5	6	SUM SAR
				LTE (State19)	NR (State19)	EN_DC	2.4G WIFI (Level8)	5G WIFI (Level8)	Bluetooth	Sum SAR (3+4+5+6)
DC_7A_n5A	ANT0	ANT1	Front Side 10mm	0.145	0.160	0.305	0.064	0.099	0.073	0.540
			Back Side 10mm	0.201	0.197	0.398	0.183	0.149	0.108	0.838
			Left Edge 10mm	0.086	0.000	0.086	0.070	0.128	0.066	0.349
			Right Edge 10mm	0.017	0.114	0.130	0.000	0.000	0.000	0.130
			Top Edge 10mm	0.000	0.171	0.171	0.091	0.216	0.073	0.552
			Bottom Edge 10mm	0.121	0.000	0.121	0.000	0.000	0.000	0.121
	ANT4	ANT1	Front Side 10mm	0.040	0.160	0.200	0.064	0.099	0.073	0.435
			Back Side 10mm	0.206	0.197	0.402	0.183	0.149	0.108	0.843

			Left Edge 10mm	0.000	0.000	0.000	0.070	0.128	0.066	0.263
			Right Edge 10mm	0.113	0.114	0.226	0.000	0.000	0.000	0.226
			Top Edge 10mm	0.014	0.171	0.186	0.091	0.216	0.073	0.566
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_66A_n5A	ANT0	ANT1	Front Side 10mm	0.095	0.160	0.255	0.064	0.099	0.073	0.490
			Back Side 10mm	0.140	0.197	0.336	0.183	0.149	0.108	0.776
			Left Edge 10mm	0.034	0.000	0.034	0.070	0.128	0.066	0.297
			Right Edge 10mm	0.022	0.114	0.135	0.000	0.000	0.000	0.135
			Top Edge 10mm	0.000	0.171	0.171	0.091	0.216	0.073	0.552
			Bottom Edge 10mm	0.237	0.000	0.237	0.000	0.000	0.000	0.237
	ANT4	ANT1	Front Side 10mm	0.063	0.160	0.223	0.064	0.099	0.073	0.458
			Back Side 10mm	0.311	0.197	0.507	0.183	0.149	0.108	0.947
			Left Edge 10mm	0.000	0.000	0.000	0.070	0.128	0.066	0.263
			Right Edge 10mm	0.183	0.114	0.297	0.000	0.000	0.000	0.297
			Top Edge 10mm	0.024	0.171	0.195	0.091	0.216	0.073	0.576
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_5A_n7A	ANT1	ANT0	Front Side 10mm	0.134	0.346	0.480	0.064	0.099	0.073	0.715
			Back Side 10mm	0.167	0.462	0.628	0.183	0.149	0.108	1.068
			Left Edge 10mm	0.000	0.192	0.192	0.070	0.128	0.066	0.456

			Right Edge 10mm	0.138	0.039	0.177	0.000	0.000	0.000	0.177	
			Top Edge 10mm	0.162	0.300	0.462	0.091	0.216	0.073	0.842	
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	ANT1	ANT4	Front Side 10mm	0.134	0.056	0.190	0.064	0.099	0.073	0.426	
			Back Side 10mm	0.167	0.302	0.469	0.183	0.149	0.108	0.909	
			Left Edge 10mm	0.000	0.150	0.150	0.070	0.128	0.066	0.414	
			Right Edge 10mm	0.138	0.000	0.138	0.000	0.000	0.000	0.138	
			Top Edge 10mm	0.162	0.024	0.186	0.091	0.216	0.073	0.566	
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	DC_2A_n7A	ANT1	ANT0	Front Side 10mm	0.111	0.346	0.457	0.064	0.099	0.073	0.692
				Back Side 10mm	0.125	0.462	0.586	0.183	0.149	0.108	1.026
				Left Edge 10mm	0.000	0.192	0.192	0.070	0.128	0.066	0.456
Right Edge 10mm				0.028	0.039	0.067	0.000	0.000	0.000	0.067	
Top Edge 10mm				0.203	0.300	0.503	0.091	0.216	0.073	0.883	
Bottom Edge 10mm				0.000	0.000	0.000	0.000	0.000	0.000	0.000	
ANT3		ANT0	Front Side 10mm	0.011	0.346	0.357	0.064	0.099	0.073	0.592	
			Back Side 10mm	0.021	0.462	0.483	0.183	0.149	0.108	0.923	
			Left Edge 10mm	0.024	0.192	0.217	0.070	0.128	0.066	0.480	
			Right Edge 10mm	0.000	0.039	0.039	0.000	0.000	0.000	0.039	



			Top Edge 10mm	0.000	0.300	0.300	0.091	0.216	0.073	0.680	
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	ANT1	ANT4	Front Side 10mm	0.111	0.056	0.167	0.064	0.099	0.073	0.403	
			Back Side 10mm	0.125	0.302	0.427	0.183	0.149	0.108	0.867	
			Left Edge 10mm	0.000	0.150	0.150	0.070	0.128	0.066	0.414	
			Right Edge 10mm	0.028	0.000	0.028	0.000	0.000	0.000	0.028	
			Top Edge 10mm	0.203	0.024	0.227	0.091	0.216	0.073	0.607	
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	ANT3	ANT4	Front Side 10mm	0.011	0.056	0.067	0.064	0.099	0.073	0.303	
			Back Side 10mm	0.021	0.302	0.323	0.183	0.149	0.108	0.763	
			Left Edge 10mm	0.024	0.150	0.175	0.070	0.128	0.066	0.438	
			Right Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
			Top Edge 10mm	0.000	0.024	0.024	0.091	0.216	0.073	0.404	
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	DC_66A_n7A	ANT1	ANT0	Front Side 10mm	0.035	0.346	0.381	0.064	0.099	0.073	0.617
				Back Side 10mm	0.038	0.462	0.500	0.183	0.149	0.108	0.940
				Left Edge 10mm	0.000	0.192	0.192	0.070	0.128	0.066	0.456
				Right Edge 10mm	0.009	0.039	0.048	0.000	0.000	0.000	0.048
Top Edge 10mm				0.066	0.300	0.366	0.091	0.216	0.073	0.746	

			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	ANT3	ANT0	Front Side 10mm	0.048	0.346	0.394	0.064	0.099	0.073	0.630
			Back Side 10mm	0.123	0.462	0.585	0.183	0.149	0.108	1.025
			Left Edge 10mm	0.176	0.192	0.369	0.070	0.128	0.066	0.632
			Right Edge 10mm	0.000	0.039	0.039	0.000	0.000	0.000	0.039
			Top Edge 10mm	0.000	0.300	0.300	0.091	0.216	0.073	0.680
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	ANT1	ANT4	Front Side 10mm	0.035	0.056	0.092	0.064	0.099	0.073	0.327
			Back Side 10mm	0.038	0.302	0.340	0.183	0.149	0.108	0.780
			Left Edge 10mm	0.000	0.150	0.150	0.070	0.128	0.066	0.414
			Right Edge 10mm	0.009	0.000	0.009	0.000	0.000	0.000	0.009
			Top Edge 10mm	0.066	0.024	0.090	0.091	0.216	0.073	0.470
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	ANT3	ANT4	Front Side 10mm	0.048	0.056	0.105	0.064	0.099	0.073	0.340
			Back Side 10mm	0.123	0.302	0.425	0.183	0.149	0.108	0.865
			Left Edge 10mm	0.176	0.150	0.326	0.070	0.128	0.066	0.590
			Right Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Top Edge 10mm	0.000	0.024	0.024	0.091	0.216	0.073	0.404
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000

DC_26A_n41A	ANT1	ANT0	Front Side 10mm	0.060	0.351	0.411	0.064	0.099	0.073	0.646
			Back Side 10mm	0.068	0.537	0.606	0.183	0.149	0.108	1.046
			Left Edge 10mm	0.000	0.142	0.142	0.070	0.128	0.066	0.406
			Right Edge 10mm	0.034	0.050	0.083	0.000	0.000	0.000	0.083
			Top Edge 10mm	0.063	0.263	0.327	0.091	0.216	0.073	0.707
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	ANT1	ANT4	Front Side 10mm	0.060	0.046	0.106	0.064	0.099	0.073	0.341
			Back Side 10mm	0.068	0.232	0.300	0.183	0.149	0.108	0.740
			Left Edge 10mm	0.000	0.120	0.120	0.070	0.128	0.066	0.383
			Right Edge 10mm	0.034	0.000	0.034	0.000	0.000	0.000	0.034
			Top Edge 10mm	0.063	0.000	0.063	0.091	0.216	0.073	0.444
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_5A+n66A	ANT1	ANT0	Front Side 10mm	0.134	0.316	0.450	0.064	0.099	0.073	0.685
			Back Side 10mm	0.167	0.346	0.513	0.183	0.149	0.108	0.953
			Left Edge 10mm	0.000	0.000	0.000	0.070	0.128	0.066	0.263
			Right Edge 10mm	0.138	0.087	0.225	0.000	0.000	0.000	0.225
			Top Edge 10mm	0.162	0.534	0.696	0.091	0.216	0.073	<b>1.076</b>
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	ANT1	ANT4	Front Side 10mm	0.134	0.068	0.202	0.064	0.099	0.073	0.437
			Back Side 10mm	0.167	0.320	0.487	0.183	0.149	0.108	0.927

			Left Edge 10mm	0.000	0.000	0.000	0.070	0.128	0.066	0.263
			Right Edge 10mm	0.138	0.191	0.329	0.000	0.000	0.000	0.329
			Top Edge 10mm	0.162	0.024	0.186	0.091	0.216	0.073	0.566
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_7A+n66A	ANT1	ANT0	Front Side 10mm	0.035	0.316	0.351	0.064	0.099	0.073	0.586
			Back Side 10mm	0.077	0.346	0.423	0.183	0.149	0.108	0.863
			Left Edge 10mm	0.000	0.000	0.000	0.070	0.128	0.066	0.263
			Right Edge 10mm	0.016	0.087	0.103	0.000	0.000	0.000	0.103
			Top Edge 10mm	0.115	0.534	0.649	0.091	0.216	0.073	1.030
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	ANT3	ANT0	Front Side 10mm	0.032	0.316	0.348	0.064	0.099	0.073	0.583
			Back Side 10mm	0.084	0.346	0.430	0.183	0.149	0.108	0.870
			Left Edge 10mm	0.121	0.000	0.121	0.070	0.128	0.066	0.385
			Right Edge 10mm	0.000	0.087	0.087	0.000	0.000	0.000	0.087
			Top Edge 10mm	0.000	0.534	0.534	0.091	0.216	0.073	0.914
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	ANT1	ANT4	Front Side 10mm	0.035	0.068	0.103	0.064	0.099	0.073	0.338
			Back Side 10mm	0.077	0.320	0.397	0.183	0.149	0.108	0.837
			Left Edge 10mm	0.000	0.000	0.000	0.070	0.128	0.066	0.263

			Right Edge 10mm	0.016	0.191	0.207	0.000	0.000	0.000	0.207	
			Top Edge 10mm	0.115	0.024	0.140	0.091	0.216	0.073	0.520	
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	ANT3	ANT4	Front Side 10mm	0.032	0.068	0.099	0.064	0.099	0.073	0.334	
			Back Side 10mm	0.084	0.320	0.404	0.183	0.149	0.108	0.844	
			Left Edge 10mm	0.121	0.000	0.121	0.070	0.128	0.066	0.385	
			Right Edge 10mm	0.000	0.191	0.191	0.000	0.000	0.000	0.191	
			Top Edge 10mm	0.000	0.024	0.024	0.091	0.216	0.073	0.404	
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	DC_12A+n66A	ANT1	ANT0	Front Side 10mm	0.112	0.316	0.428	0.064	0.099	0.073	0.664
				Back Side 10mm	0.147	0.346	0.493	0.183	0.149	0.108	0.933
Left Edge 10mm				0.000	0.000	0.000	0.070	0.128	0.066	0.263	
Right Edge 10mm				0.159	0.087	0.246	0.000	0.000	0.000	0.246	
Top Edge 10mm				0.110	0.534	0.644	0.091	0.216	0.073	1.024	
Bottom Edge 10mm				0.000	0.000	0.000	0.000	0.000	0.000	0.000	
ANT1		ANT4	Front Side 10mm	0.112	0.068	0.180	0.064	0.099	0.073	0.415	
			Back Side 10mm	0.147	0.320	0.467	0.183	0.149	0.108	0.908	
			Left Edge 10mm	0.000	0.000	0.000	0.070	0.128	0.066	0.263	
			Right Edge 10mm	0.159	0.191	0.350	0.000	0.000	0.000	0.350	

			Top Edge 10mm	0.110	0.024	0.134	0.091	0.216	0.073	0.514
			Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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 1.168 W/kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

### 12.2.23 Head Simultaneous Transmission SAR Evaluation for WLAN and Bluetooth

Position	Stand alone SAR			SUM SAR
	1	2	3	
	2.4G WIFI (Level2)	5G WIFI (Level2)	Bluetooth	Sum SAR (1+2+3)
Left Cheek	0.246	0.579	0.424	<b>1.249</b>
Left Tilt	0.156	0.519	0.332	1.007
Right Cheek	0.091	0.311	0.216	0.618
Right Tilt	0.104	0.344	0.204	0.652

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

### 12.2.24 Body-worn Simultaneous Transmission SAR Evaluation for WLAN and Bluetooth

Position	Stand alone SAR			SUM SAR
	1	2	3	
	2.4G WIFI (Level5)	5G WIFI (Level5)	Bluetooth	Sum SAR (1+2+3)
Front Side 15mm	0.081	0.277	0.018	0.376
Back Side 15mm	0.087	0.452	0.028	<b>0.568</b>

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

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

Position	Stand alone SAR			SUM SAR
	1	2	3	
	2.4G WIFI (Level6)	5G WIFI (Level6)	Bluetooth	Sum SAR (1+2+3)
Front Side 10mm	0.087	0.258	0.073	0.418
Back Side 10mm	0.232	0.343	0.108	0.683
Left Edge 10mm	0.093	0.305	0.066	0.464
Top Edge 10mm	0.119	0.517	0.073	<b>0.709</b>

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 0.709 W/Kg < 1.6 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: 7663	2021/07/23	2022/07/22
Data Acquisition Electronics	Speag	DAE4	SN: 878	2021/07/15	2022/07/14
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. (°C)	Meas. Conductivity ( $\sigma$ ) (S/m)	Meas. Permittivity ( $\epsilon$ )	Target Conductivity ( $\sigma$ ) (S/m)	Target Permittivity ( $\epsilon$ )	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2021.11.15	Head	750	21.6	0.90	42.64	0.89	41.94	1.12	1.67
2021.11.16	Head	750	21.6	0.91	41.67	0.89	41.94	2.25	-0.64
2021.12.14	Head	750	21.8	0.89	42.89	0.89	41.94	0.00	2.27
2021.11.09	Head	835	21.9	0.90	41.85	0.90	41.50	0.00	0.84
2021.11.11	Head	835	21.5	0.90	40.35	0.90	41.50	0.00	-2.77
2021.11.20	Head	835	21.3	0.89	40.80	0.90	41.50	-1.11	-1.69
2021.12.13	Head	835	21.5	0.90	42.52	0.90	41.50	0.00	2.46
2021.12.12	Head	835	21.2	0.87	40.41	0.90	41.50	-3.33	-2.63
2021.11.12	Head	1750	21.4	1.39	39.98	1.37	40.08	1.46	-0.25
2021.11.17	Head	1750	21.8	1.41	38.80	1.37	40.08	2.92	-3.19
2021.11.21	Head	1750	21.6	1.36	40.05	1.37	40.08	-0.73	-0.07
2021.12.11	Head	1750	21.4	1.36	39.25	1.37	40.08	-0.73	-2.07
2021.12.10	Head	1750	21.3	1.35	39.89	1.37	40.08	-1.46	-0.47
2021.12.09	Head	1750	21.4	1.35	39.65	1.37	40.08	-1.46	-1.07
2021.11.10	Head	1900	21.5	1.43	40.76	1.40	40.00	2.14	1.90
2021.11.13	Head	1900	21.7	1.44	40.27	1.40	40.00	2.86	0.68
2021.12.08	Head	1900	21.5	1.40	38.85	1.40	40.00	0.00	-2.88
2021.11.25	Head	2450	21.6	1.84	38.70	1.80	39.20	2.22	-1.28
2021.11.14	Head	2600	21.8	1.91	39.63	1.96	39.01	-2.55	1.59
2021.11.22	Head	2600	21.4	1.92	39.28	1.96	39.01	-2.04	0.69
2021.11.18	Head	2600	21.5	1.92	38.85	1.96	39.01	-2.04	-0.41
2021.11.19	Head	2600	21.2	1.95	38.08	1.96	39.01	-0.51	-2.38
2021.11.23	Head	2600	21.5	1.94	39.38	1.96	39.01	-1.02	0.95
2021.11.24	Head	2600	21.1	1.95	38.60	1.96	39.01	-0.51	-1.05
2021.11.29	Head	2600	21.6	1.99	38.43	1.96	39.01	1.53	-1.49
2021.11.30	Head	2600	21.4	1.98	37.93	1.96	39.01	1.02	-2.77
2021.12.01	Head	2600	21.7	1.92	38.96	1.96	39.01	-2.04	-0.13
2021.12.02	Head	2600	21.5	1.97	39.25	1.96	39.01	0.51	0.62
2021.12.03	Head	2600	21.4	1.99	38.87	1.96	39.01	1.53	-0.36
2021.12.04	Head	2600	21.9	1.94	39.42	1.96	39.01	-1.02	1.05
2021.12.05	Head	2600	21.9	1.96	38.12	1.96	39.01	0.00	-2.28
2021.12.06	Head	2600	21.5	1.98	39.90	1.96	39.01	1.02	2.28
2021.12.07	Head	2600	21.5	1.92	39.67	1.96	39.01	-2.04	1.69
2021.11.26	Head	5250	21.4	4.58	36.88	4.66	35.99	-1.72	2.47
2021.11.27	Head	5600	21.1	5.01	35.91	5.07	35.53	-1.18	1.07

2021.11.28	Head	5750	21.1	5.18	35.18	5.27	35.30	-1.71	-0.34
2022.02.11	Head	1900	21.6	1.41	40.44	1.40	40.00	0.71	1.10
2022.02.12	Head	2600	21.4	1.97	39.21	1.96	39.01	0.51	0.51
2022.02.13	Head	5600	21.7	4.89	35.64	5.07	35.99	-3.55	-0.97
2022.02.14	Head	5725	21.5	5.30	36.60	5.27	35.53	0.57	3.01

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

## ANNEX B SYSTEM CHECK RESULT

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

Head liquid 1g

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2021.11.15	Head	750	100	0.833	8.33	8.29	0.48
2021.11.16	Head	750	100	0.837	8.37	8.29	0.97
2021.12.14	Head	750	100	0.817	8.17	8.29	-1.45
2021.11.09	Head	835	100	0.973	9.73	9.76	-0.31
2021.11.11	Head	835	100	0.966	9.66	9.76	-1.02
2021.11.20	Head	835	100	0.986	9.86	9.76	1.02
2021.12.13	Head	835	100	0.953	9.53	9.76	-2.36
2021.12.12	Head	835	100	0.986	9.86	9.76	1.02
2021.11.12	Head	1750	100	3.780	37.80	36.70	3.00
2021.11.17	Head	1750	100	3.550	35.50	36.70	-3.27
2021.11.21	Head	1750	100	3.610	36.10	36.70	-1.63
2021.12.11	Head	1750	100	3.610	36.10	36.70	-1.63
2021.12.10	Head	1750	100	3.570	35.70	36.70	-2.72
2021.12.09	Head	1750	100	3.570	35.70	36.70	-2.72
2021.11.10	Head	1900	100	4.140	41.40	40.30	2.73
2021.11.13	Head	1900	100	4.220	42.20	40.30	4.71
2021.12.08	Head	1900	100	4.020	40.20	40.30	-0.25
2021.11.25	Head	2450	100	5.250	52.50	53.00	-0.94
2021.11.14	Head	2600	100	5.570	55.70	56.80	-1.94
2021.11.22	Head	2600	100	5.570	55.70	56.80	-1.94
2021.11.18	Head	2600	100	5.790	57.90	56.80	1.94
2021.11.19	Head	2600	100	5.710	57.10	56.80	0.53
2021.11.23	Head	2600	100	5.560	55.60	56.80	-2.11
2021.11.24	Head	2600	100	5.640	56.40	56.80	-0.70
2021.11.29	Head	2600	100	5.780	57.80	56.80	1.76
2021.11.30	Head	2600	100	5.540	55.40	56.80	-2.46
2021.12.01	Head	2600	100	5.680	56.80	56.80	0.00
2021.12.02	Head	2600	100	5.590	55.90	56.80	-1.58
2021.12.03	Head	2600	100	5.450	54.50	56.80	-4.05
2021.12.04	Head	2600	100	5.640	56.40	56.80	-0.70
2021.12.05	Head	2600	100	5.570	55.70	56.80	-1.94
2021.12.06	Head	2600	100	5.530	55.30	56.80	-2.64
2021.12.07	Head	2600	100	5.410	54.10	56.80	-4.75
2021.11.26	Head	5250	100	8.090	80.90	77.80	3.98
2021.11.27	Head	5600	100	8.220	82.20	81.20	1.23
2021.11.28	Head	5750	100	7.650	76.50	77.20	-0.91
2022.02.11	Head	1900	100	3.910	39.10	40.30	-2.98

2022.02.12	Head	2600	100	5.550	55.50	56.80	-2.29
2022.02.13	Head	5600	100	7.860	78.60	81.20	-3.20
2022.02.14	Head	5750	100	7.790	77.90	77.20	0.91

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

Head liquid 10g

Date	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2021.11.12	1750	100	1.840	18.40	19.10	-3.66
2021.11.17	1750	100	1.890	18.90	19.10	-1.05
2021.11.21	1750	100	1.980	19.80	19.10	3.66
2021.12.11	1750	100	1.910	19.10	19.10	0.00
2021.12.10	1750	100	1.920	19.20	19.10	0.52
2021.12.09	1750	100	1.920	19.20	19.10	0.52
2021.11.14	2600	100	2.390	23.90	24.80	-3.63
2021.11.22	2600	100	2.390	23.90	24.80	-3.63
2021.11.18	2600	100	2.580	25.80	24.80	4.03
2021.11.19	2600	100	2.570	25.70	24.80	3.63
2021.11.23	2600	100	2.540	25.40	24.80	2.42
2021.11.24	2600	100	2.420	24.20	24.80	-2.42
2021.11.29	2600	100	2.350	23.50	24.80	-5.24
2021.11.30	2600	100	2.580	25.80	24.80	4.03
2021.12.01	2600	100	2.510	25.10	24.80	1.21
2021.12.02	2600	100	2.370	23.70	24.80	-4.44
2021.12.03	2600	100	2.490	24.90	24.80	0.40
2021.12.04	2600	100	2.470	24.70	24.80	-0.40
2021.12.05	2600	100	2.400	24.00	24.80	-3.23
2021.12.06	2600	100	2.480	24.80	24.80	0.00
2021.12.07	2600	100	2.410	24.10	24.80	-2.82
2021.11.26	5250	100	2.200	22.00	22.10	-0.45
2021.11.27	5600	100	2.290	22.90	23.10	-0.87
2022.02.12	2600	100	2.490	24.90	24.80	0.40

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

# System Performance Check Data (750MHz Head)

Date: 2021.11.15

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

Medium parameters used (extrapolated):  $f = 750 \text{ MHz}$ ;  $\sigma = 0.902 \text{ S/m}$ ;  $\epsilon_r = 42.638$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.41, 10.41, 10.41); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW 750 100mW/Area Scan (71x131x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.924 W/kg

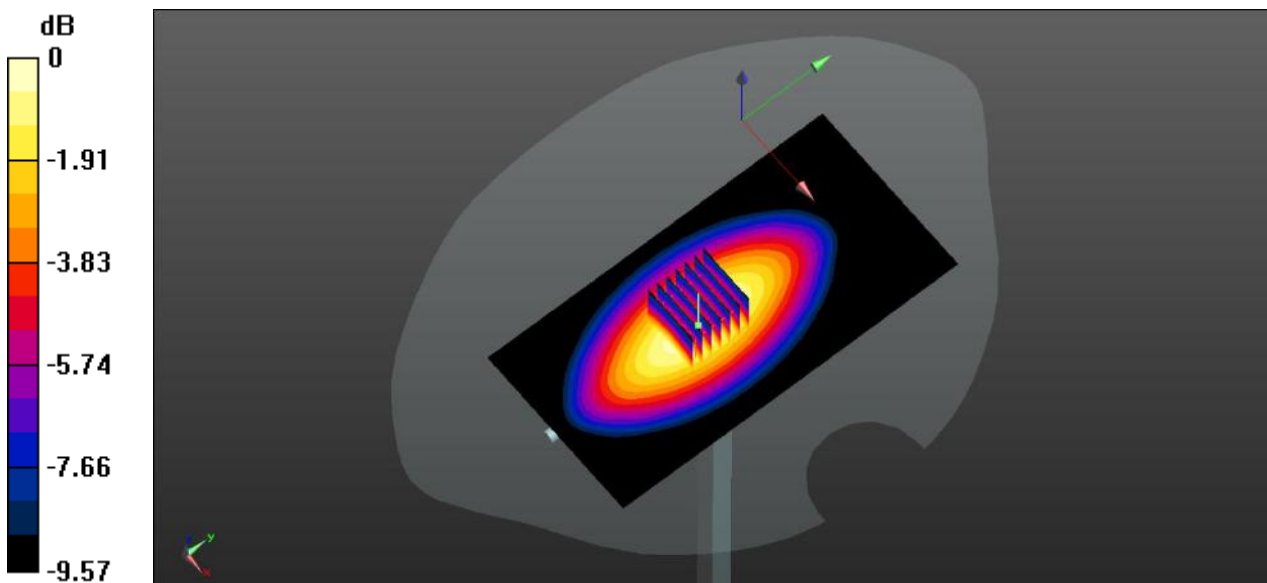
**CW 750 100mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 24.33 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 4.41 W/kg

**SAR(1 g) = 0.833 W/kg; SAR(10 g) = 0.557 W/kg**

Maximum value of SAR (measured) = 0.854 W/kg



0 dB = 0.854 W/kg

# System Performance Check Data (750MHz Head)

Date: 2021.11.16

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

Medium parameters used (extrapolated):  $f = 750$  MHz;  $\sigma = 0.91$  S/m;  $\epsilon_r = 41.665$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.41, 10.41, 10.41); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW 750 100mW/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.907 W/kg

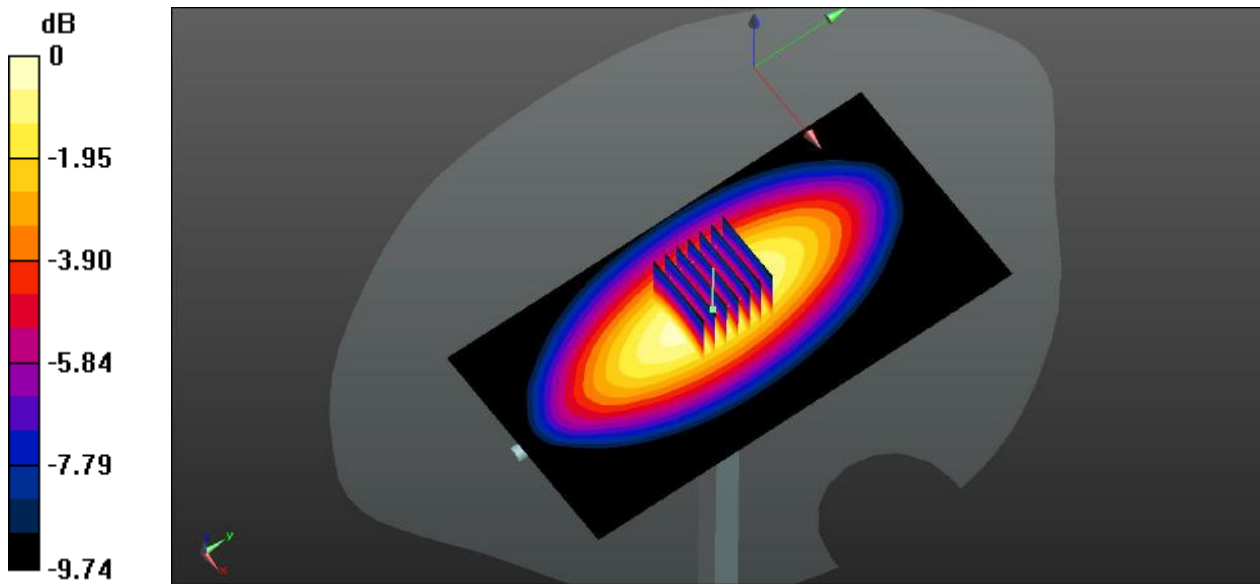
**CW 750 100mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.73 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 5.31 W/kg

**SAR(1 g) = 0.837 W/kg; SAR(10 g) = 0.510 W/kg**

Maximum value of SAR (measured) = 0.907 W/kg



0 dB = 0.907 W/kg

# System Performance Check Data (750MHz Head)

Date: 2021.12.14

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

Medium parameters used (extrapolated):  $f = 750$  MHz;  $\sigma = 0.885$  S/m;  $\epsilon_r = 42.887$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.41, 10.41, 10.41); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW 750 100mW/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.907 W/kg

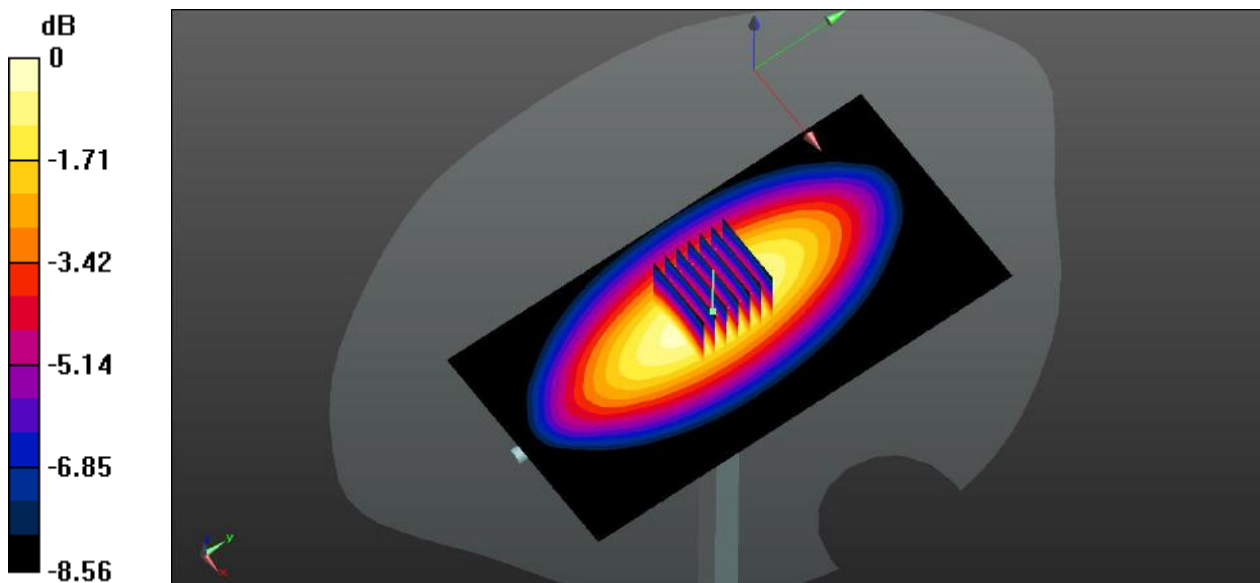
**CW 750 100mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.24 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.31 W/kg

**SAR(1 g) = 0.817 W/kg; SAR(10 g) = 0.541 W/kg**

Maximum value of SAR (measured) = 0.927 W/kg



0 dB = 0.927 W/kg

# System Performance Check Data (835MHz Head)

Date: 2021.11.09

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

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.898 \text{ S/m}$ ;  $\epsilon_r = 41.845$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.7 Liquid Temperature: 21.9

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW 835 100mW/Area Scan (71x131x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.978W/kg

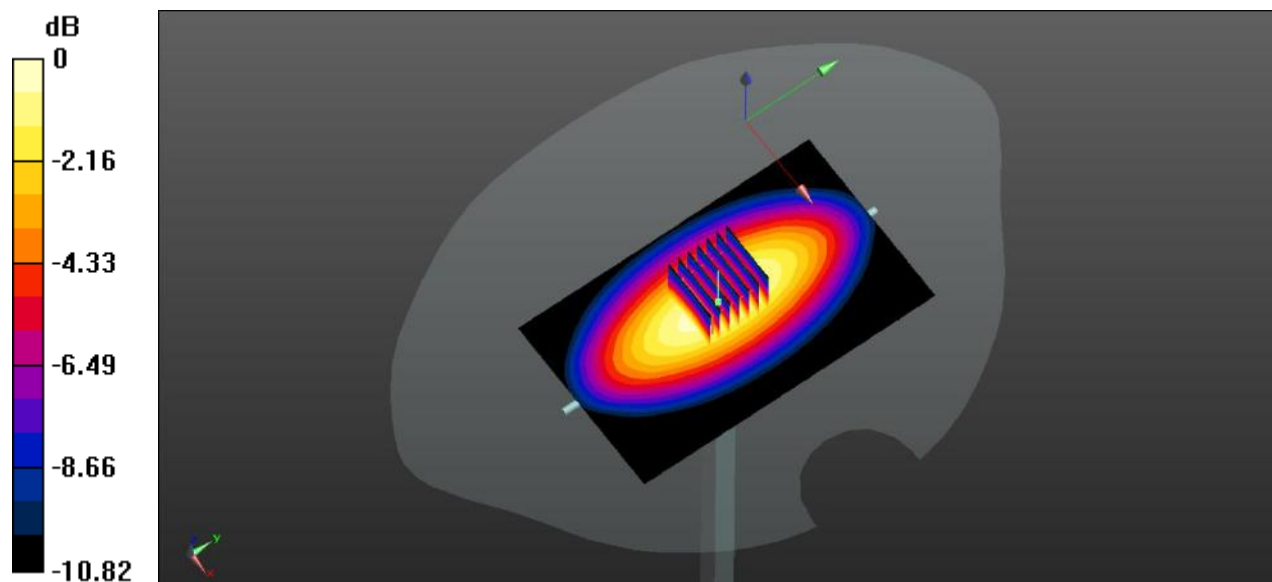
**CW 835 100mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 32.88 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 4.84 W/kg

**SAR(1 g) = 0.973 W/kg; SAR(10 g) = 0.652 W/kg**

Maximum value of SAR (measured) = 0.998 W/kg



0 dB = 0.998 W/kg



# System Performance Check Data (835MHz Head)

Date: 2021.11.11

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

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.903 \text{ S/m}$ ;  $\epsilon_r = 40.352$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.9 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW 835 100mW/Area Scan (71x131x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

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

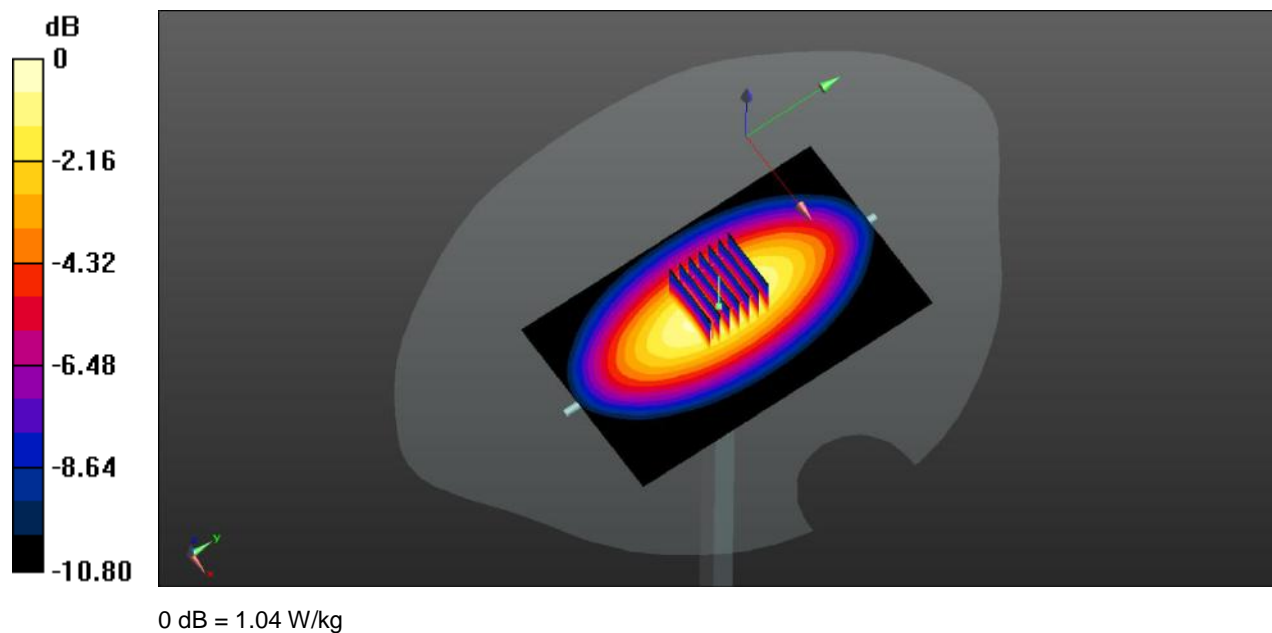
**CW 835 100mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 31.64 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 5.27 W/kg

**SAR(1 g) = 0.966 W/kg; SAR(10 g) = 0.617 W/kg**

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



# System Performance Check Data (835MHz Head)

Date: 2021.11.20

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

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.885$  S/m;  $\epsilon_r = 40.802$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW 835 100mW/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

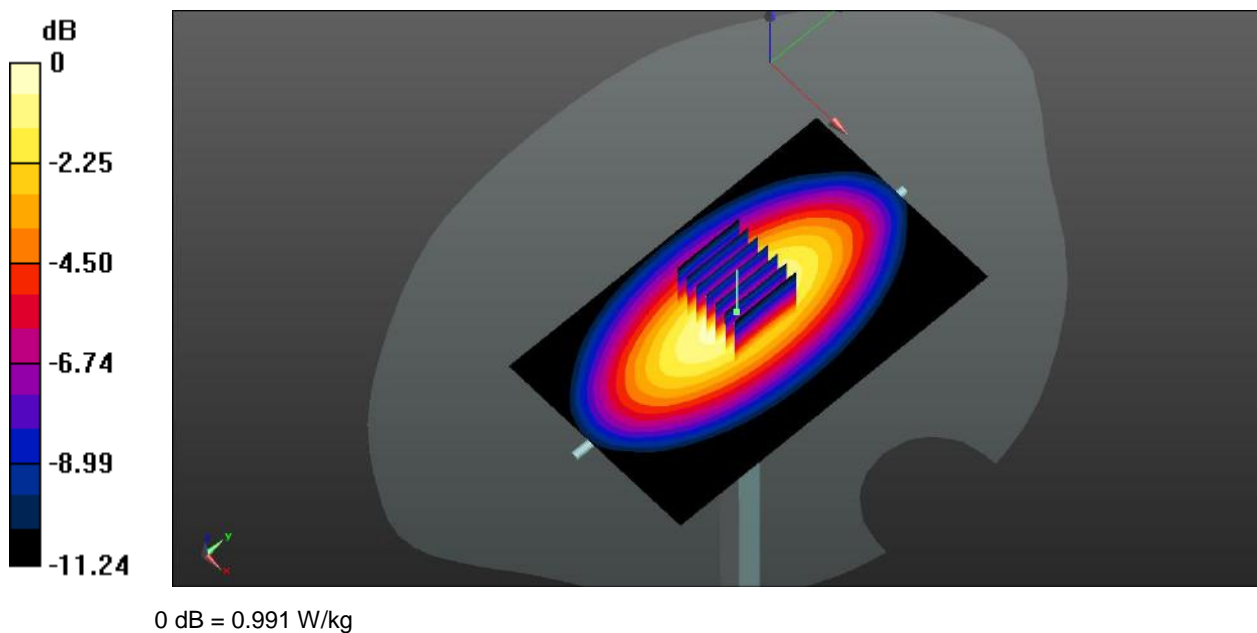
**CW 835 100mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 35.14 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 4.97 W/kg

**SAR(1 g) = 0.986 W/kg; SAR(10 g) = 0.639 W/kg**

Maximum value of SAR (measured) = 0.991 W/kg



# System Performance Check Data (835MHz Head)

Date: 2021.12.13

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

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.899 \text{ S/m}$ ;  $\epsilon_r = 42.523$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW 835 100mW/Area Scan (71x131x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

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

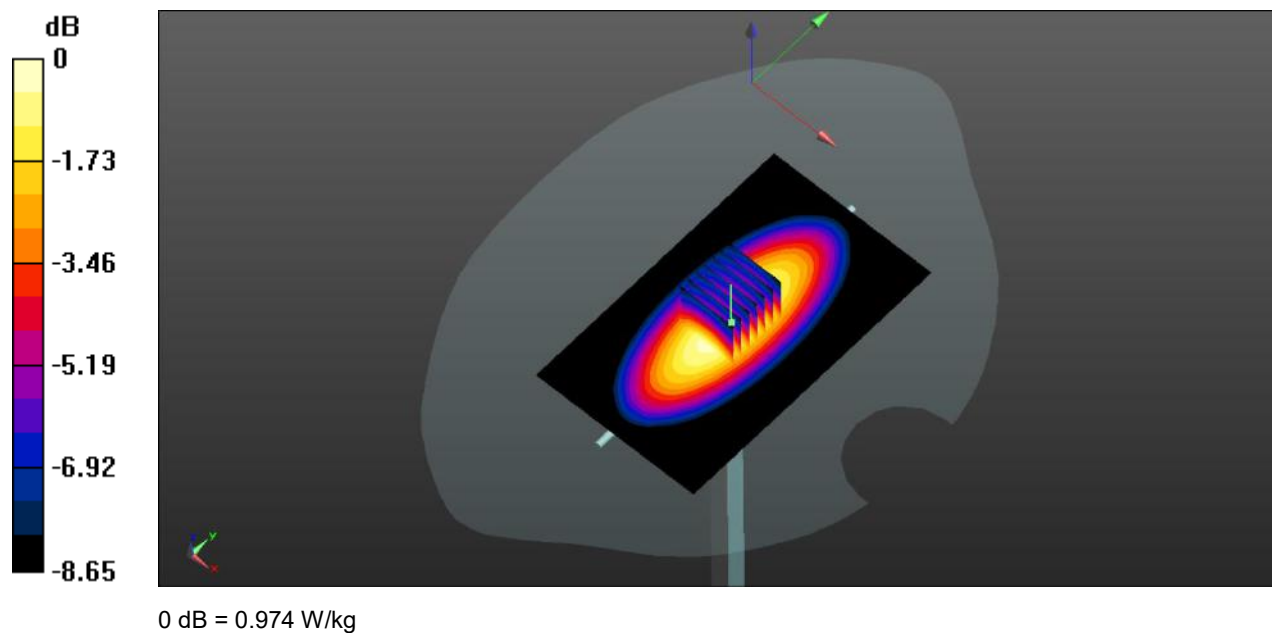
**CW 835 100mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 32.4 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.97 W/kg

**SAR(1 g) = 0.953 W/kg; SAR(10 g) = 0.629 W/kg**

Maximum value of SAR (measured) = 0.974 W/kg



# System Performance Check Data (835MHz Head)

Date: 2021.12.12

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

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.871 \text{ S/m}$ ;  $\epsilon_r = 41.405$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.8 Liquid Temperature: 21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW 835 100mW/Area Scan (71x131x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.983W/kg

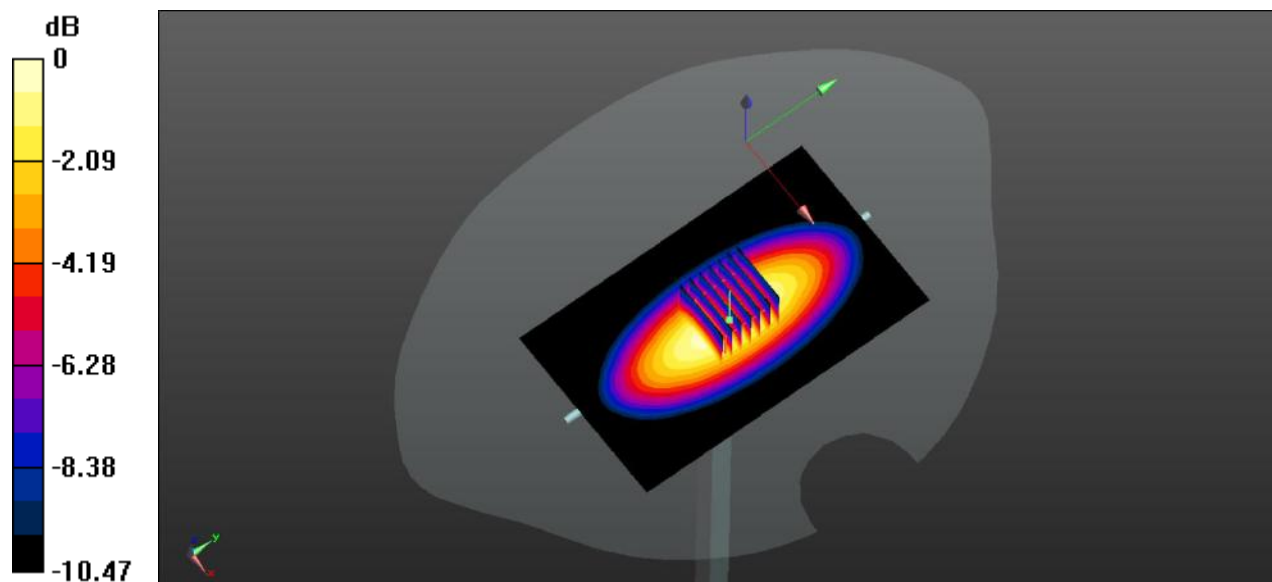
**CW 835 100mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 31.14 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.35 W/kg

**SAR(1 g) = 0.986 W/kg; SAR(10 g) = 0.639 W/kg**

Maximum value of SAR (measured) = 0.999 W/kg



0 dB = 0.999 W/kg

# System Performance Check Data (1750MHz Head)

Date: 2021.11.12

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

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.392$  S/m;  $\epsilon_r = 39.98$  ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW1750 Head 100mW /Area Scan (71x131x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

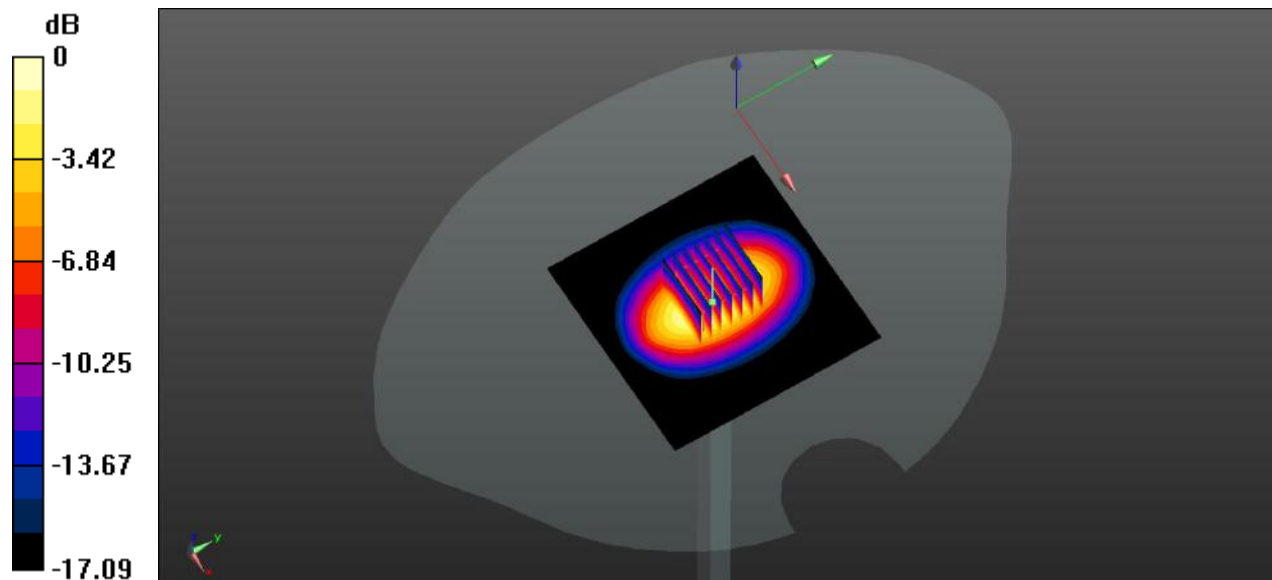
**CW1750 Head 100mW /Zoom Scan(6x6x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 47.38 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 9.47 W/kg

**SAR(1 g) = 3.78 W/kg; SAR(10 g) = 1.84 W/kg**

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



0 dB = 4.15 W/kg

# System Performance Check Data (1750MHz Head)

Date: 2021.11.17

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

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.405$  S/m;  $\epsilon_r = 38.795$  ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW1750 Head 100mW /Area Scan (71x131x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

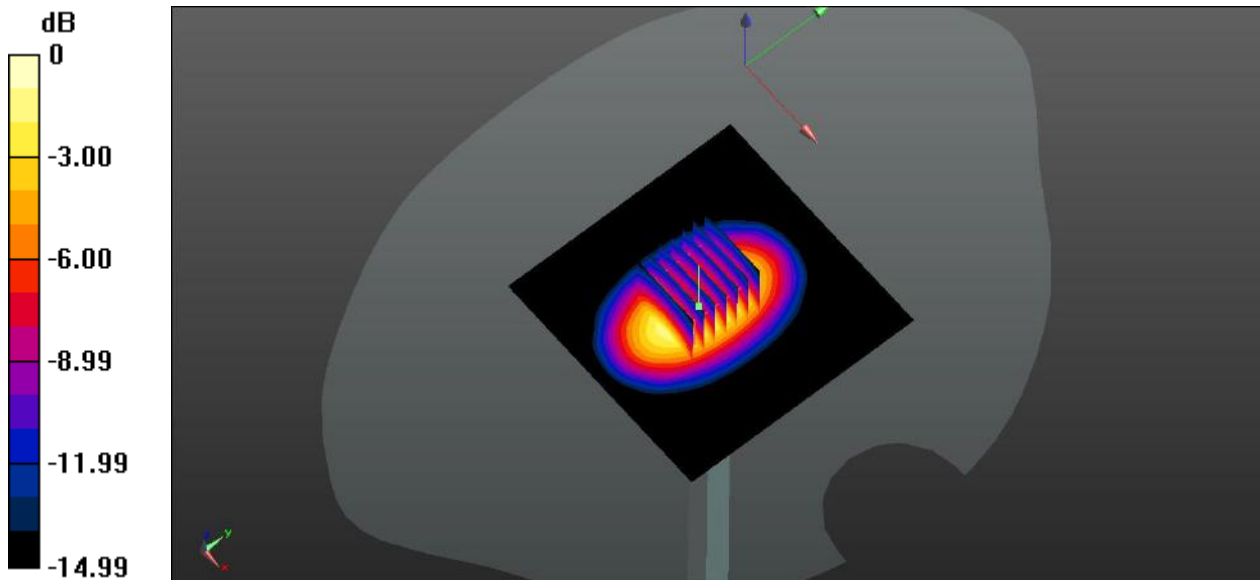
**CW1750 Head 100mW /Zoom Scan(6x6x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 42.81 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 8.25 W/kg

**SAR(1 g) = 3.55 W/kg; SAR(10 g) = 1.89 W/kg**

Maximum value of SAR (measured) = 4.12 W/kg



0 dB = 4.12 W/kg

# System Performance Check Data (1750MHz Head)

Date: 2021.11.21

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

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.364$  S/m;  $\epsilon_r = 40.045$  ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.8 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW1750 Head 100mW /Area Scan (71x131x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.52 W/kg

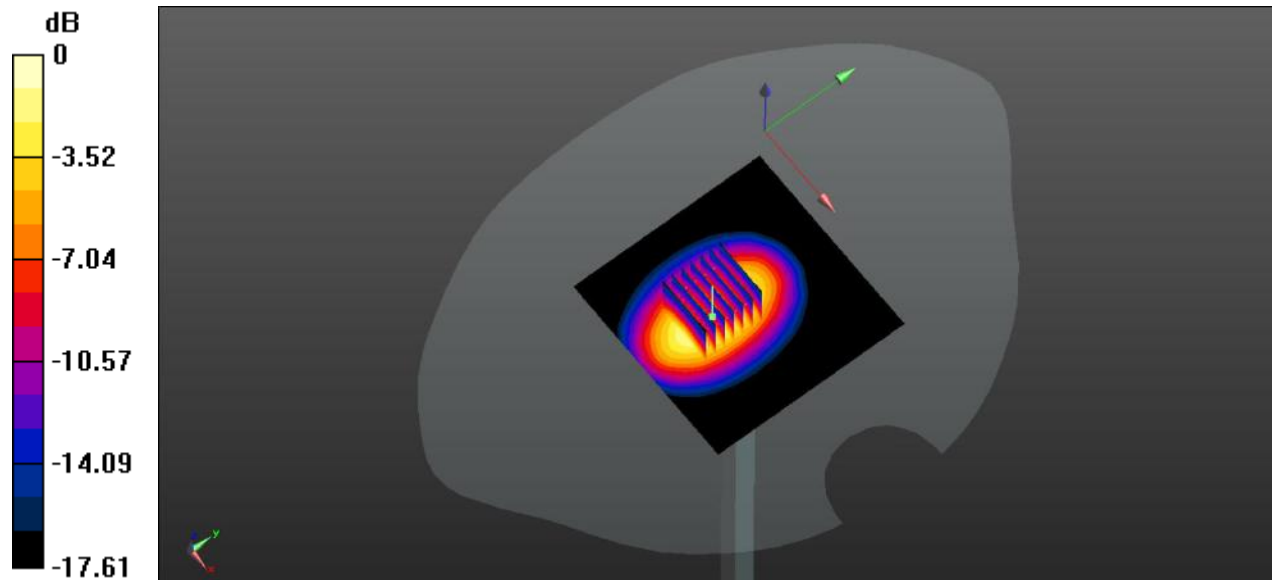
**CW1750 Head 100mW /Zoom Scan(6x6x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.11 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 8.36 W/kg

**SAR(1 g) = 3.61 W/kg; SAR(10 g) = 1.98 W/kg**

Maximum value of SAR (measured) = 4.59 W/kg



0 dB = 4.59 W/kg

# System Performance Check Data (1750MHz Head)

Date: 2021.12.11

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

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.357$  S/m;  $\epsilon_r = 39.252$  ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW1750 Head 100mW /Area Scan (71x131x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

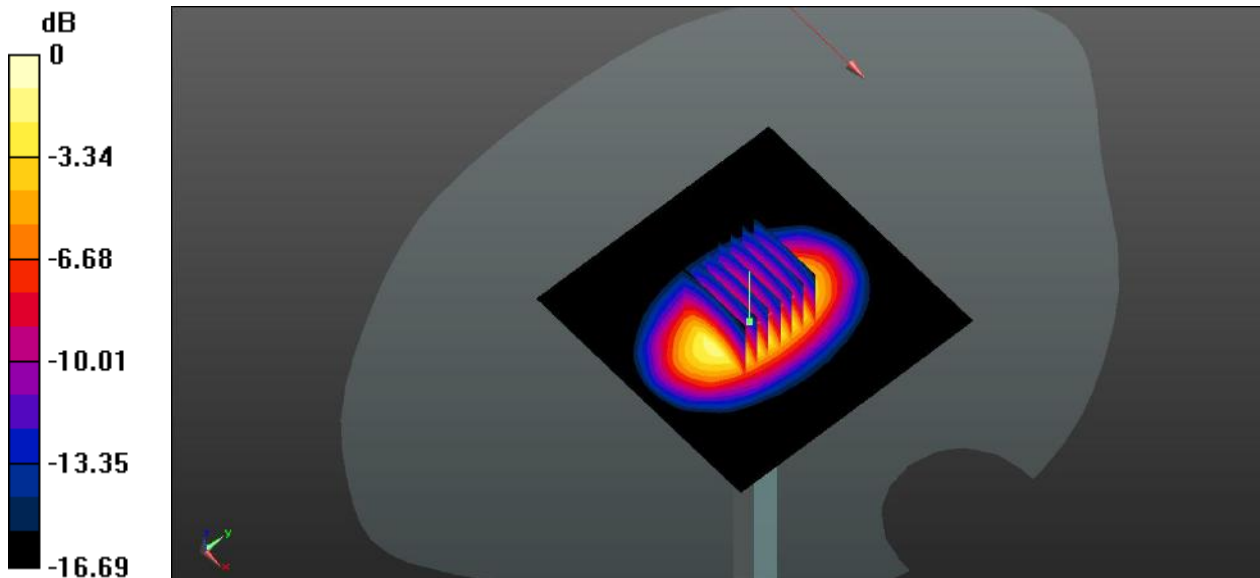
**CW1750 Head 100mW /Zoom Scan(6x6x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 58.23 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 7.16 W/kg

**SAR(1 g) = 3.61 W/kg; SAR(10 g) = 1.91 W/kg**

Maximum value of SAR (measured) = 4.52 W/kg



0 dB = 4.52 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;  $\sigma = 1.348$  S/m;  $\epsilon_r = 39.888$  ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW1750 Head 100mW /Area Scan (71x131x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

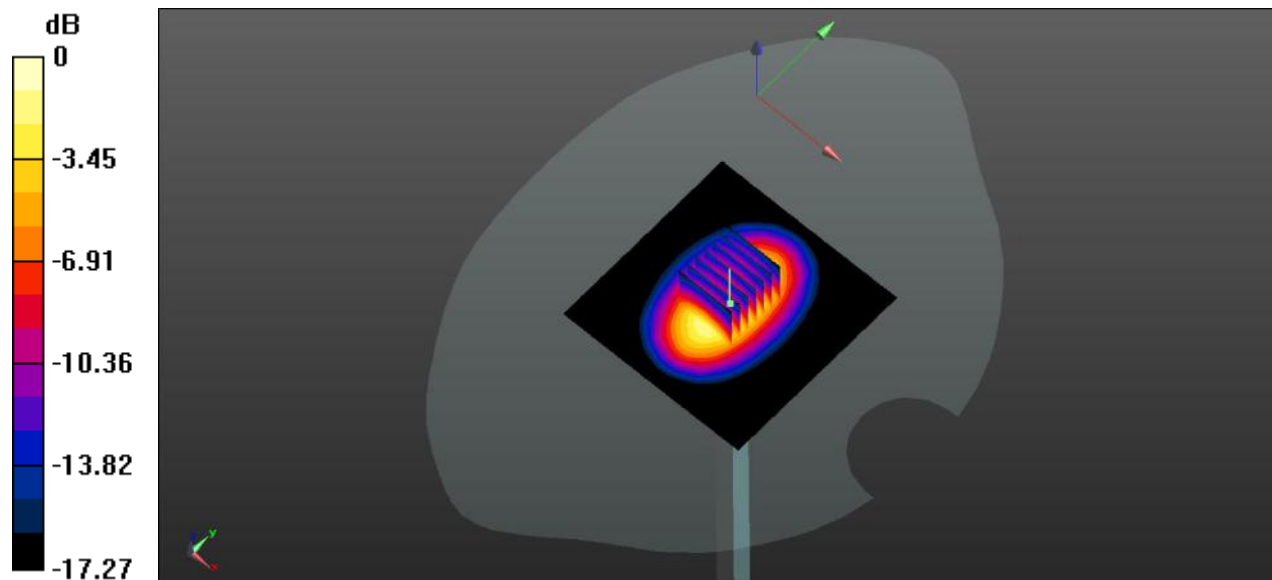
**CW1750 Head 100mW /Zoom Scan(6x6x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.81 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 6.75 W/kg

**SAR(1 g) = 3.57 W/kg; SAR(10 g) = 1.92 W/kg**

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



0 dB = 4.15 W/kg

# System Performance Check Data (1750MHz Head)

Date: 2021.12.09

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

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.347$  S/m;  $\epsilon_r = 39.648$  ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW1750 Head 100mW /Area Scan (71x131x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.08 W/kg

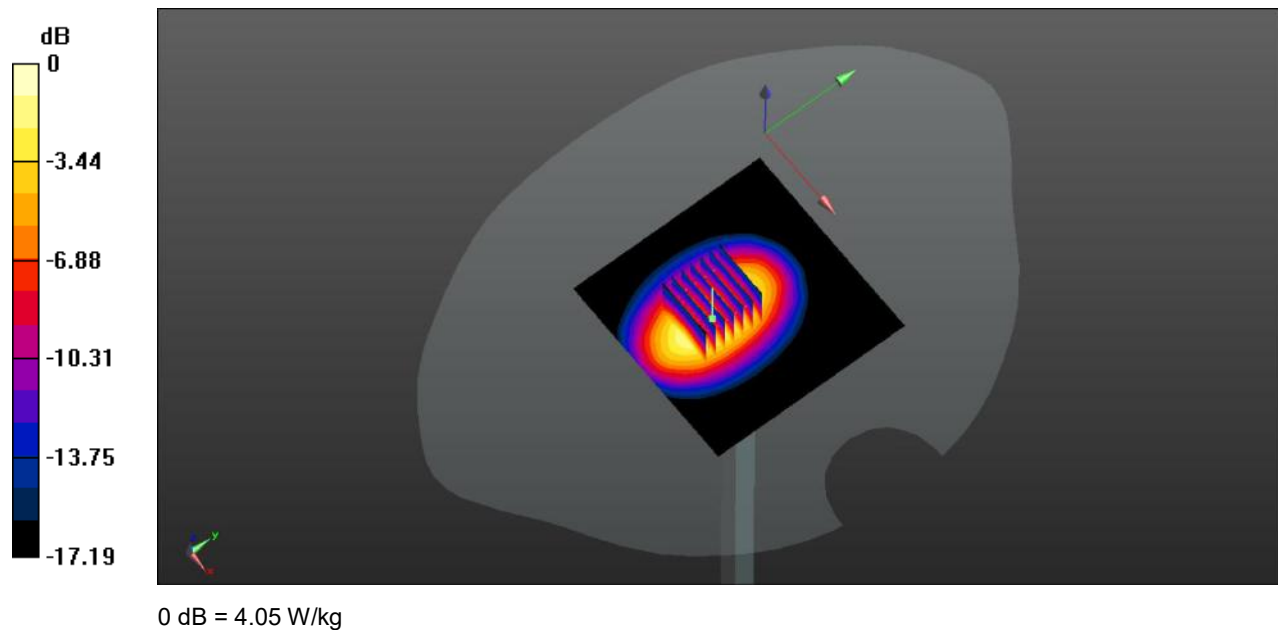
**CW1750 Head 100mW /Zoom Scan(6x6x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.71 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 6.87 W/kg

**SAR(1 g) = 3.57 W/kg; SAR(10 g) = 1.92 W/kg**

Maximum value of SAR (measured) = 4.05 W/kg



# System Performance Check Data (1900MHz Head)

Date: 2021.11.10

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

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.429$  S/m;  $\epsilon_r = 40.756$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.57, 8.57, 8.57); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW1900-Head-100mW/Area Scan (71x131x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.76 W/kg

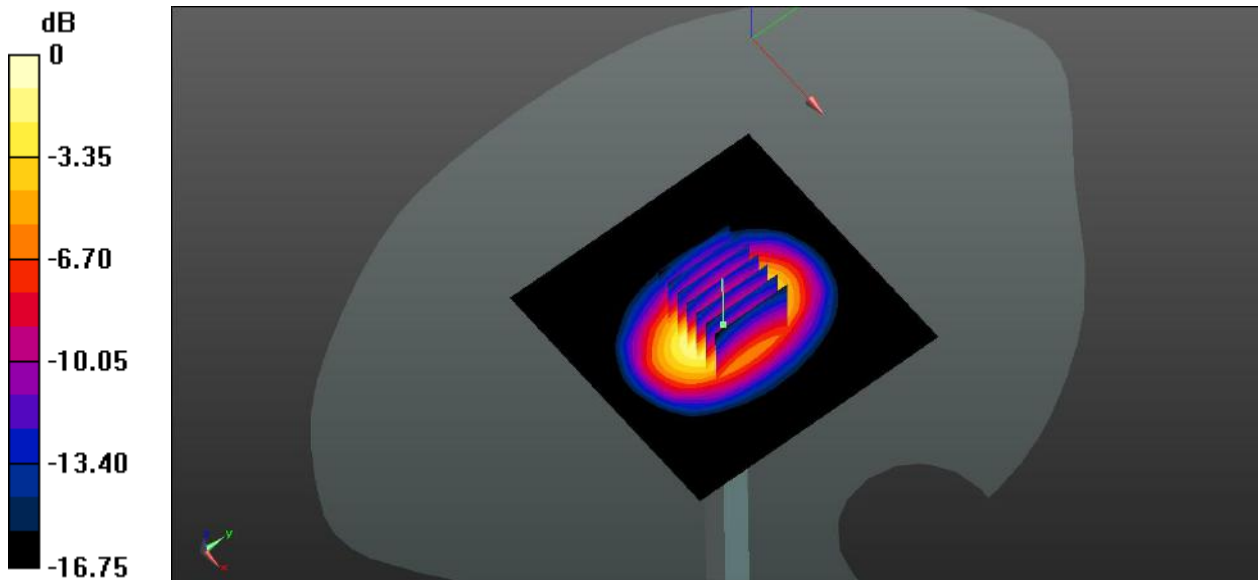
**CW1900-Head-100mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 37.29 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 4.69 W/kg

**SAR(1 g) = 4.14 W/kg; SAR(10 g) = 2.04 W/kg**

Maximum value of SAR (measured) = 4.51 W/kg



0 dB = 4.51 W/kg

# System Performance Check Data (1900MHz Head)

Date: 2021.11.13

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

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.436$  S/m;  $\epsilon_r = 40.269$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.7

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.57, 8.57, 8.57); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW1900 100mW/Area Scan (71x131x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

**CW1900 100mW/Zoom Scan(5x5x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

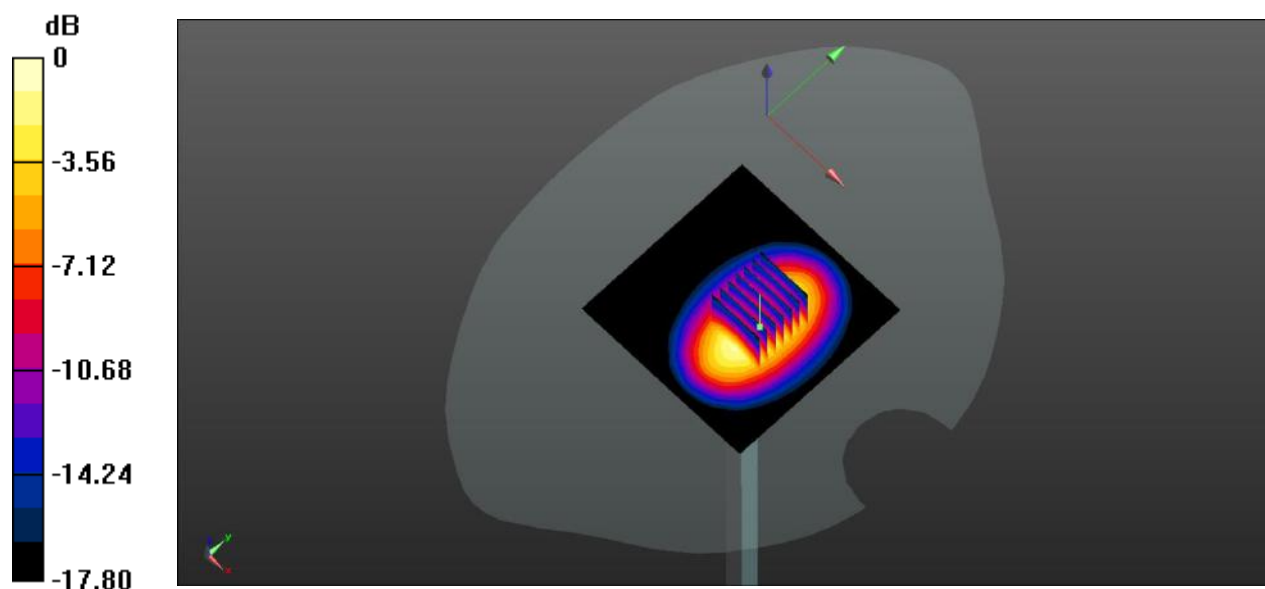
dz=5mm

Reference Value = 40.13V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 4.28W/kg

**SAR(1 g) = 4.22 W/kg; SAR(10 g) = 2.11 W/kg**

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



0 dB = 4.57 W/kg

# System Performance Check Data (1900MHz Head)

Date: 2021.12.08

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

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.396$  S/m;  $\epsilon_r = 38.848$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.57, 8.57, 8.57); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW1900 100mW/Area Scan (71x131x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.67W/kg

**CW1900 100mW/Zoom Scan(5x5x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

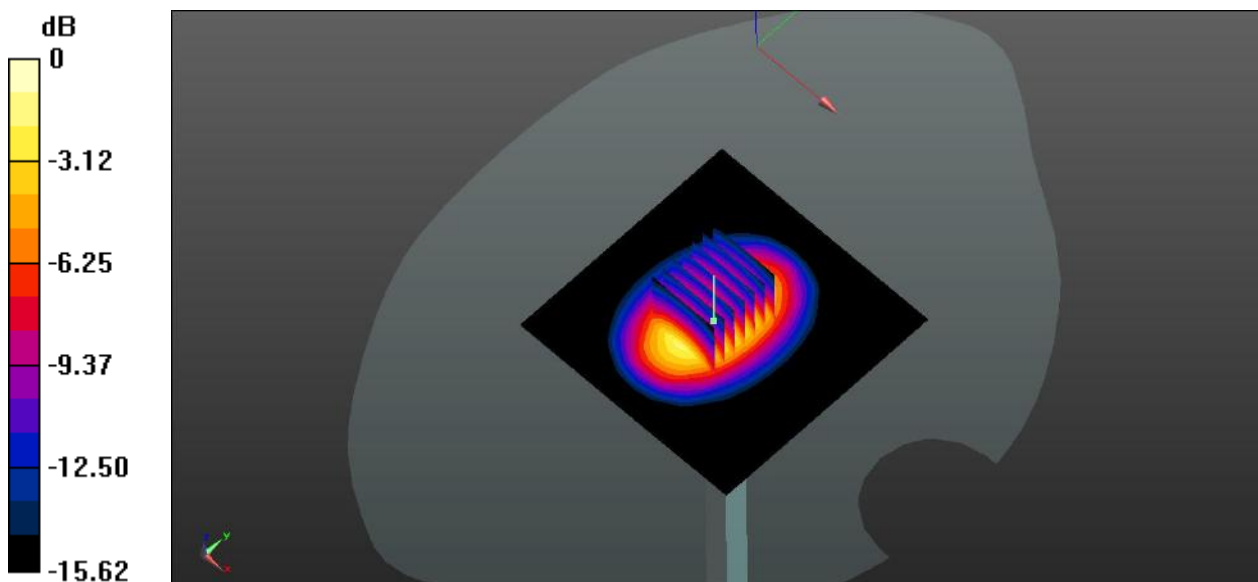
dz=5mm

Reference Value = 50.23V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 7.38W/kg

**SAR(1 g) = 4.02 W/kg; SAR(10 g) = 1.93 W/kg**

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



0 dB = 4.66 W/kg

# System Performance Check Data (2450MHz Head)

Date: 2021.11.25

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

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.839$  S/m;  $\epsilon_r = 38.701$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.19, 8.19, 8.19); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); 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) = 6.28 W/kg

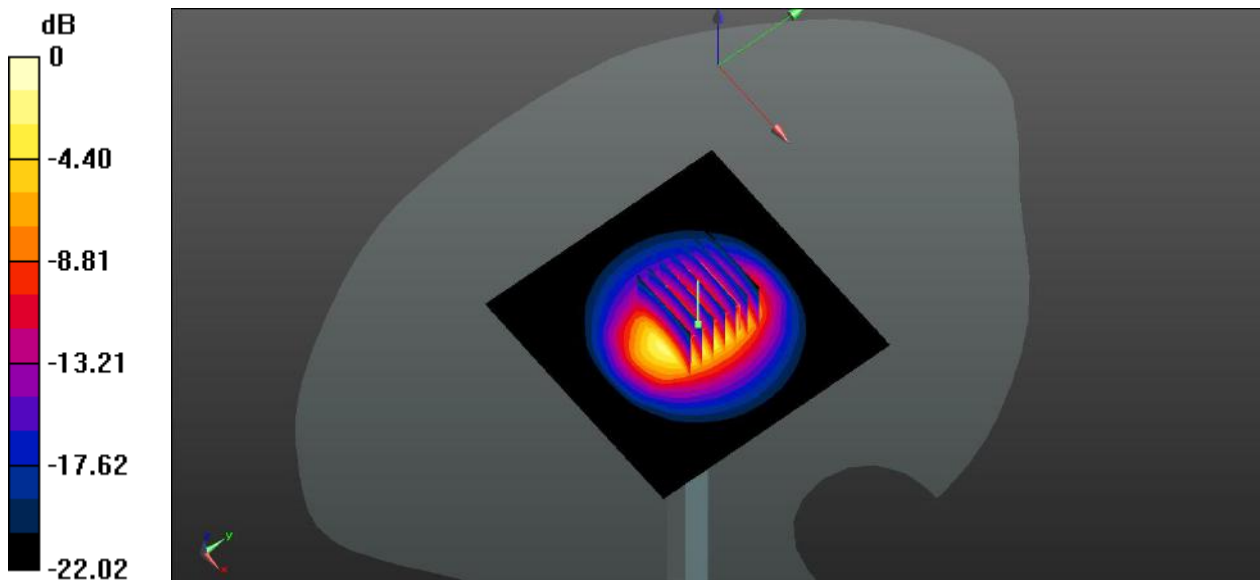
**CW 2450 100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.37 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 12.32 W/kg

**SAR(1 g) = 5.25 W/kg; SAR(10 g) = 2.46 W/kg**

Maximum value of SAR (measured) = 6.23 W/kg



0 dB = 6.23 W/kg

# System Performance Check Data (2600MHz Head)

Date: 2021.11.14

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

Medium parameters used (interpolated):  $f = 2600$  MHz;  $\sigma = 1.913$  S/m;  $\epsilon_r = 39.625$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW 2600 100mW /Area Scan (71x131x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.66 W/kg

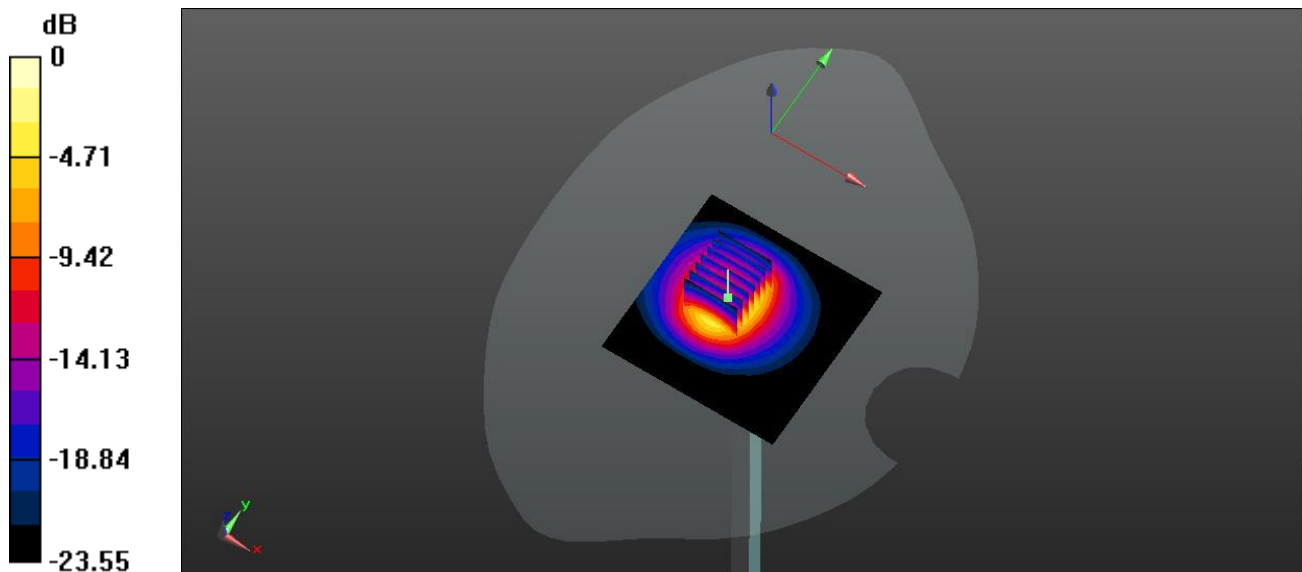
**CW 2600 100mW /Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 37.27 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 9.47 W/kg

**SAR(1 g) = 5.57 W/kg; SAR(10 g) = 2.39 W/kg**

Maximum value of SAR (measured) = 6.67 W/kg



0 dB = 6.67 W/kg

# System Performance Check Data (2600MHz Head)

Date: 2021.11.22

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

Medium parameters used (interpolated):  $f = 2600$  MHz;  $\sigma = 1.917$  S/m;  $\epsilon_r = 39.276$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW 2600 100mW /Area Scan (71x131x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 6.53 W/kg

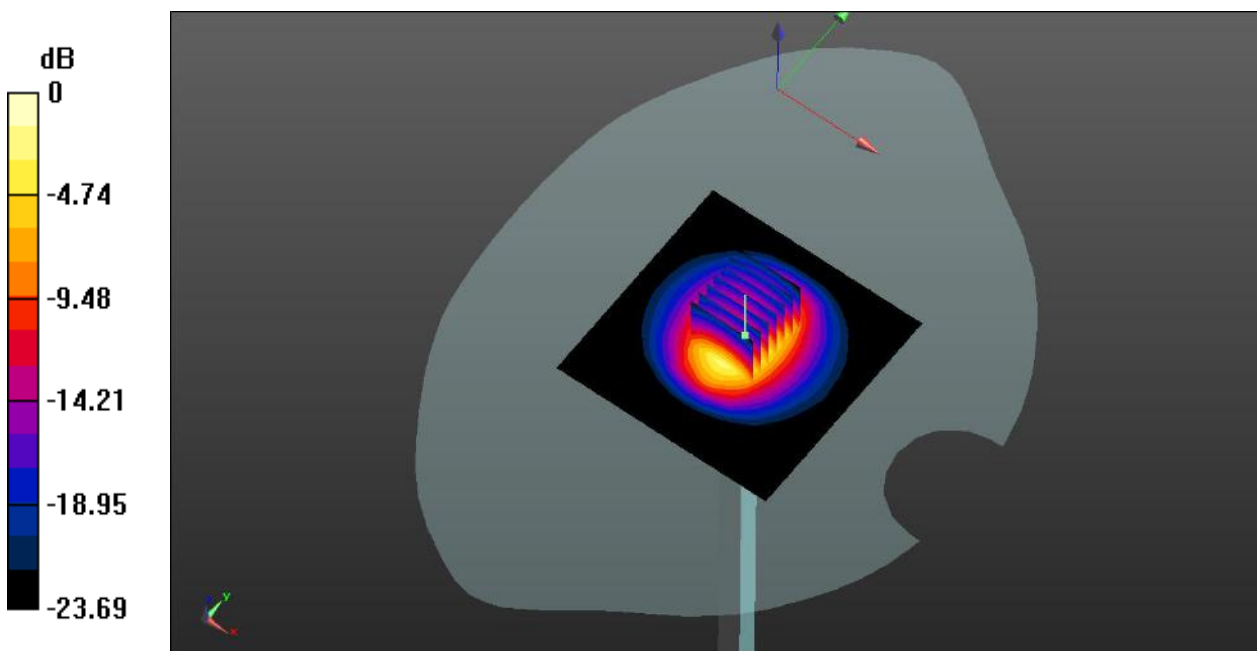
**CW 2600 100mW /Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 35.37 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 10.57 W/kg

**SAR(1 g) = 5.57 W/kg; SAR(10 g) = 2.39 W/kg**

Maximum value of SAR (measured) = 6.61 W/kg



0 dB = 6.61 W/kg



# System Performance Check Data (2600MHz Head)

Date: 2021.11.18

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

Medium parameters used (interpolated):  $f = 2600$  MHz;  $\sigma = 1.924$  S/m;  $\epsilon_r = 38.845$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.1 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW2600-Head-100mW/Area Scan(71x131x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

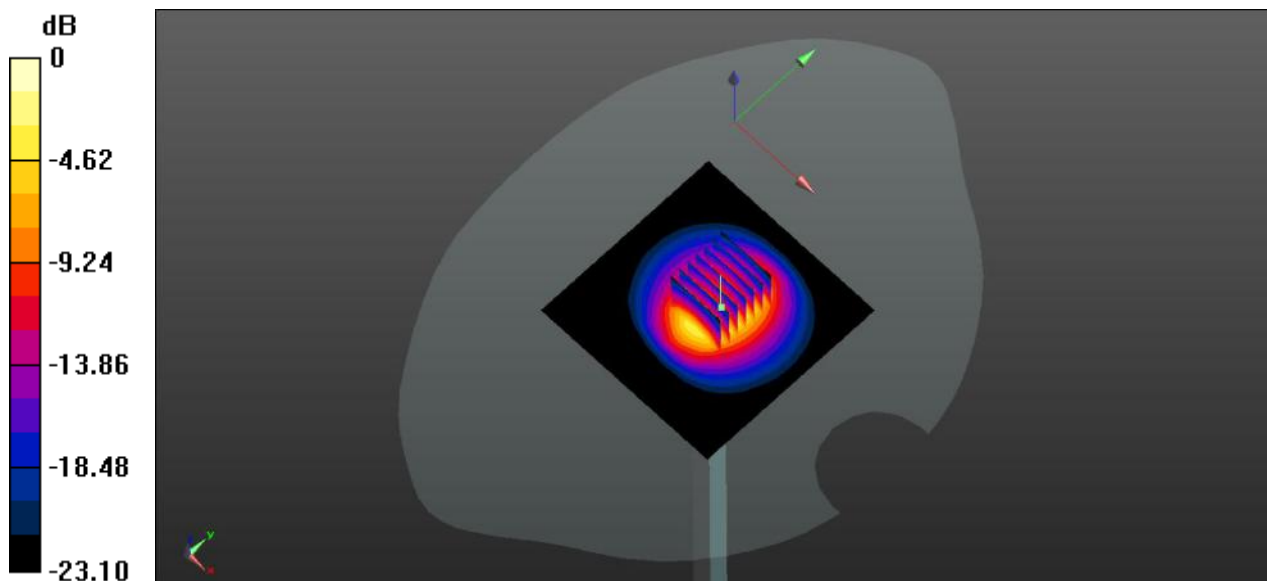
**CW2600-Head-100mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.88 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 10.56 W/kg

**SAR(1 g) = 5.79 W/kg; SAR(10 g) = 2.58 W/kg**

Maximum value of SAR (measured) = 6.42 W/kg



# System Performance Check Data (2600MHz Head)

Date: 2021.11.19

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

Medium parameters used (interpolated):  $f = 2600$  MHz;  $\sigma = 1.952$  S/m;  $\epsilon_r = 38.075$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW2600-Head-100mW/Area Scan(71x131x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.39W/kg

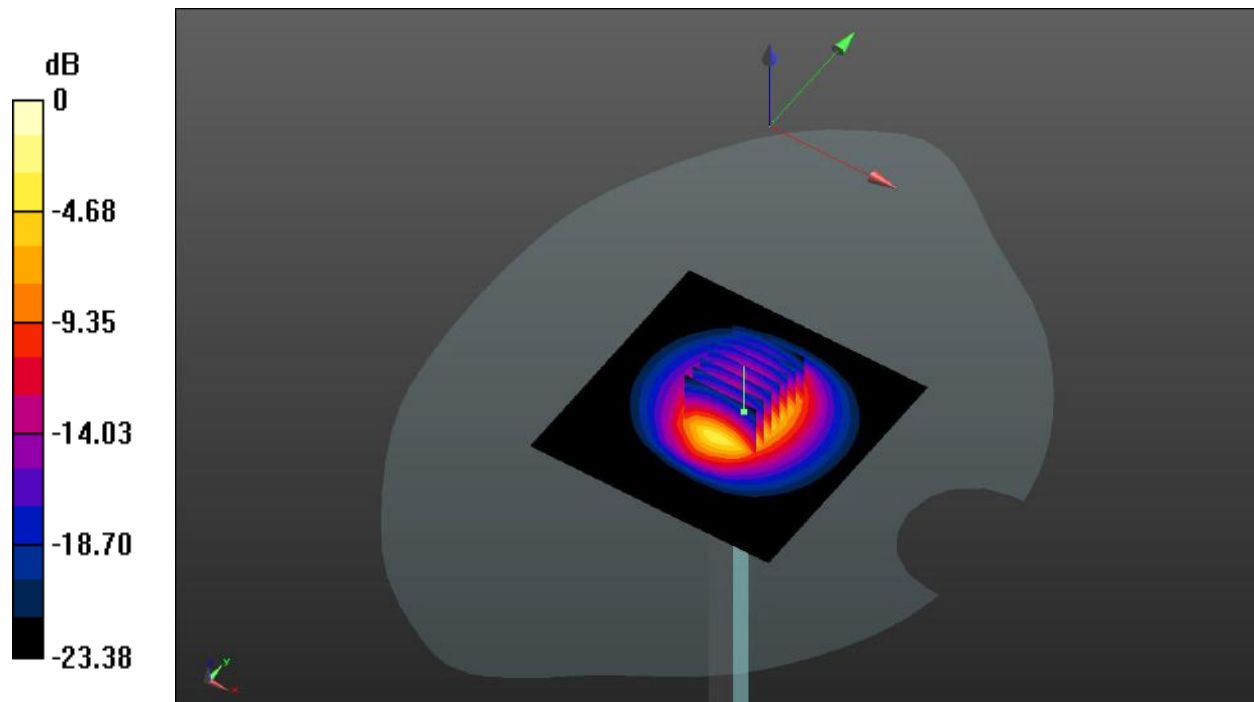
**CW2600-Head-100mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 35.54 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 12.43 W/kg

**SAR(1 g) = 5.71 W/kg; SAR(10 g) = 2.57 W/kg**

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



0 dB = 6.38 W/kg

# System Performance Check Data (2600MHz Head)

Date: 2021.11.23

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

Medium parameters used (interpolated):  $f = 2600$  MHz;  $\sigma = 1.938$  S/m;  $\epsilon_r = 39.382$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.7 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW2600-Head-100mW/Area Scan(71x131x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.25W/kg

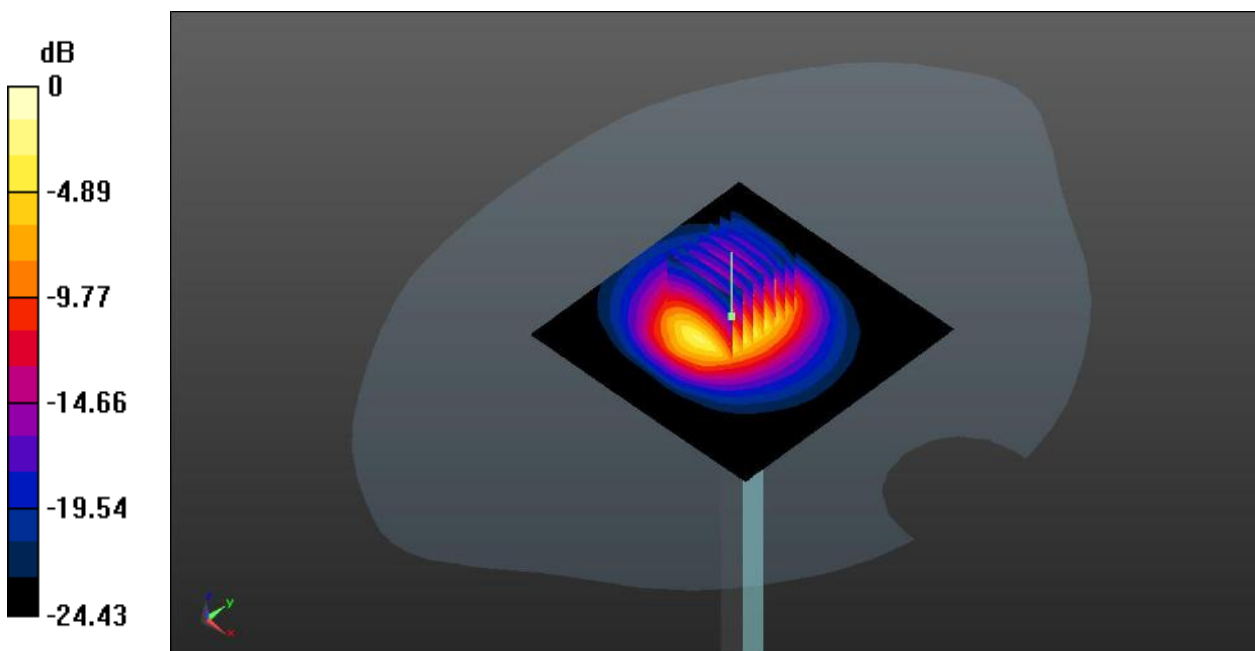
**CW2600-Head-100mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 35.54 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 11.91W/kg

**SAR(1 g) = 5.56 W/kg; SAR(10 g) = 2.54 W/kg**

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



0 dB = 6.31 W/kg

# System Performance Check Data (2600MHz Head)

Date: 2021.11.24

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

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.953$  S/m;  $\epsilon_r = 38.6$  ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW 2600 100mW /Area Scan (101x101x1):** Interpolated grid: dx=10mm, dy=10mm

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

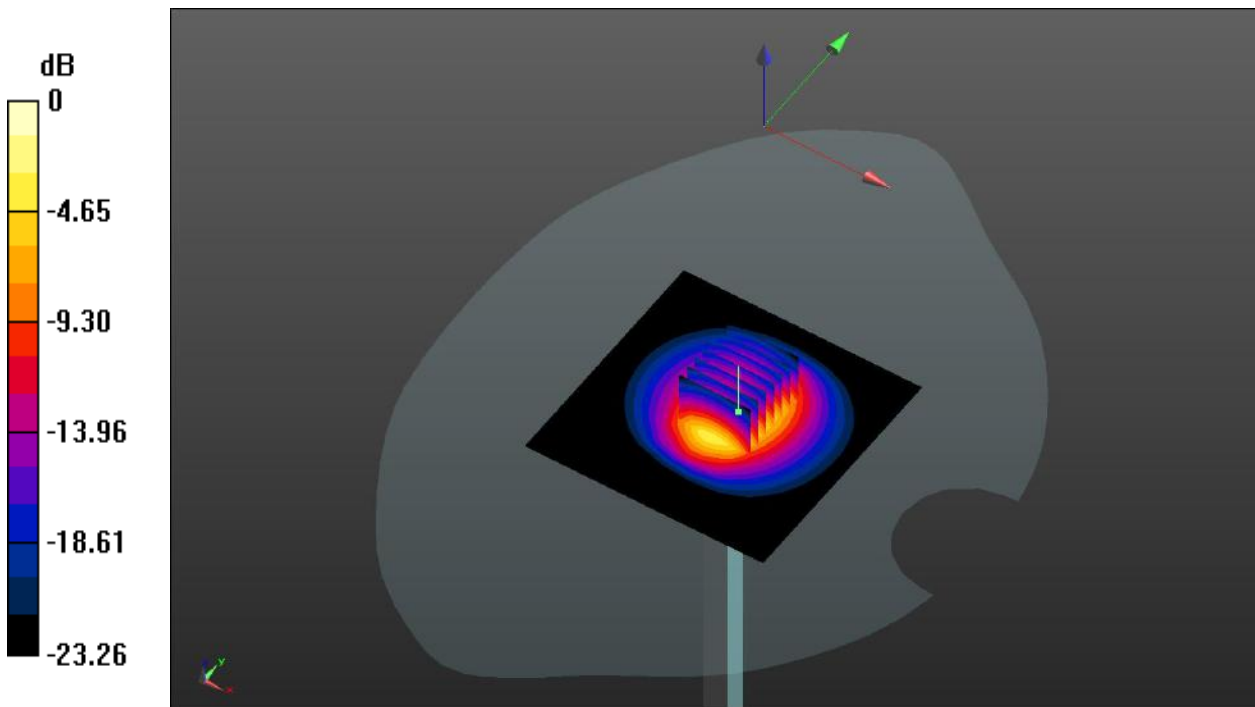
**CW 2600 100mW /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 41.54 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 10.95 W/kg

**SAR(1 g) = 5.64 W/kg; SAR(10 g) = 2.42 W/kg**

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



0 dB = 6.28 W/kg

# System Performance Check Data (2600MHz Head)

Date: 2021.11.29

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

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.987$  S/m;  $\epsilon_r = 38.426$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.7 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW 2600 100mW /Area Scan (101x101x1):** Interpolated grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 6.56 W/kg

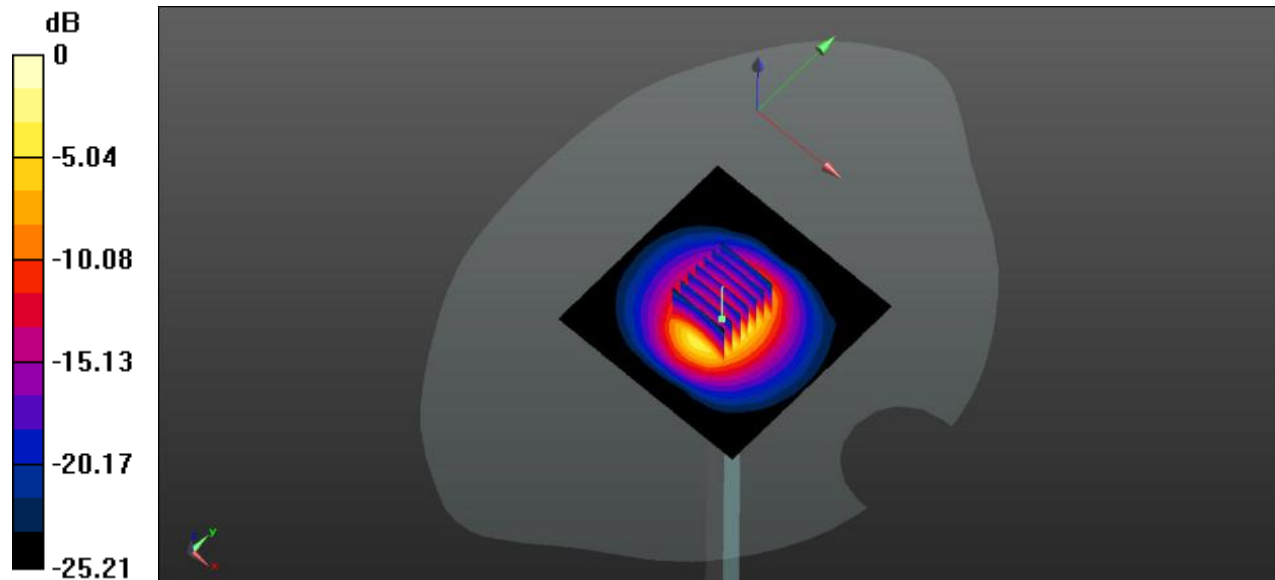
**CW 2600 100mW /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 49.75 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 13.67 W/kg

**SAR(1 g) = 5.78 W/kg; SAR(10 g) = 2.35 W/kg**

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



0 dB = 6.46 W/kg

# System Performance Check Data (2600MHz Head)

Date: 2021.11.30

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

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.982$  S/m;  $\epsilon_r = 37.925$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.2 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW 2600 100mW /Area Scan (101x101x1):** Interpolated grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 6.36 W/kg

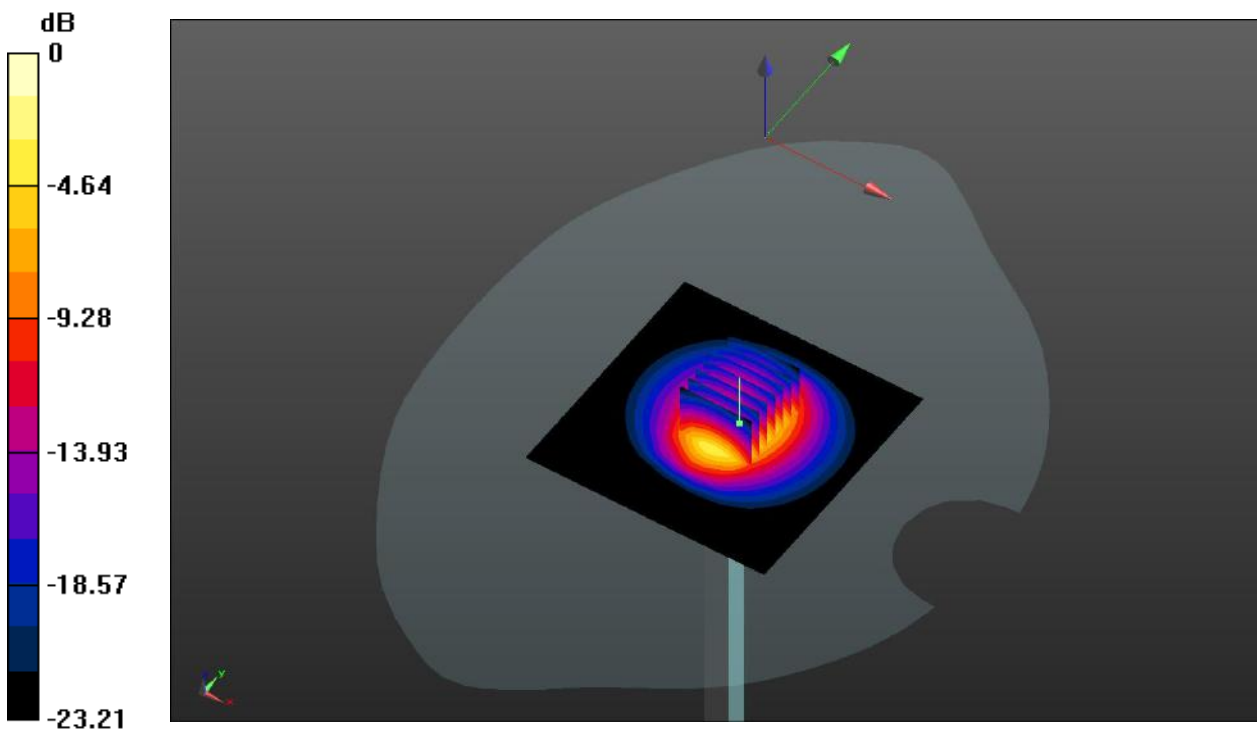
**CW 2600 100mW /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.65 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 11.2 W/kg

**SAR(1 g) = 5.54 W/kg; SAR(10 g) = 2.58 W/kg**

Maximum value of SAR (measured) = 6.26 W/kg



0 dB = 6.26 W/kg

# System Performance Check Data (2600MHz Head)

Date: 2021.12.01

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

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.919$  S/m;  $\epsilon_r = 38.955$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.1 Liquid Temperature: 21.7

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW 2600 100mW /Area Scan (101x101x1):** Interpolated grid: dx=10mm, dy=10mm

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

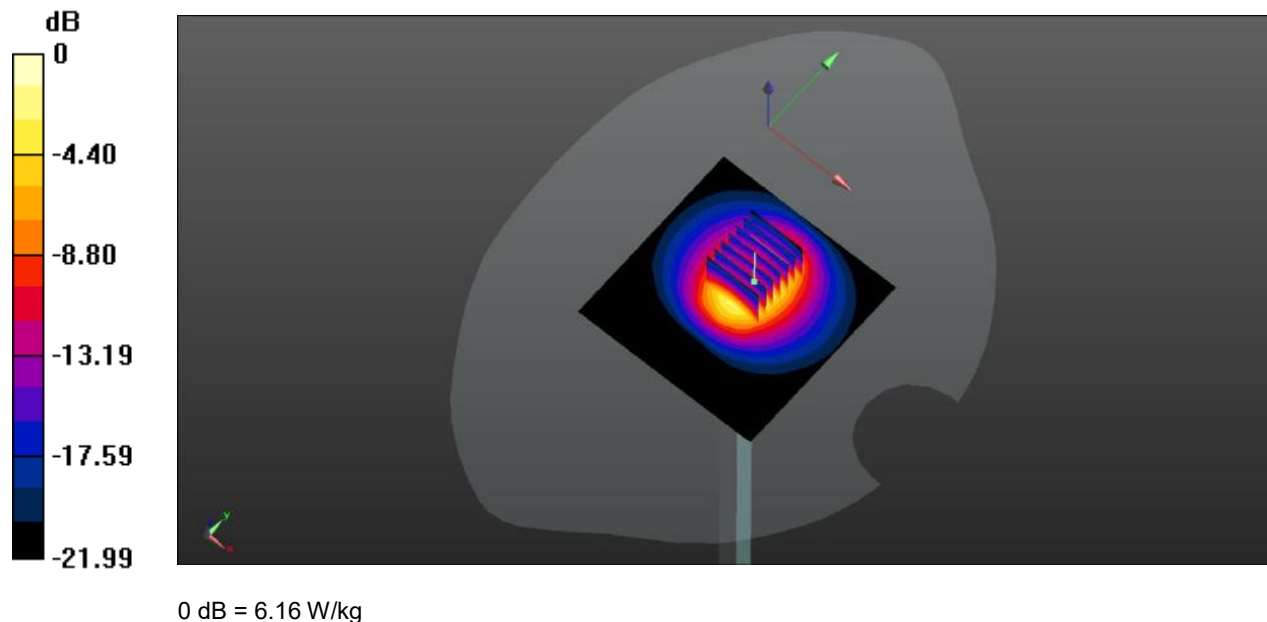
**CW 2600 100mW /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 57.72 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 12.2 W/kg

**SAR(1 g) = 5.68 W/kg; SAR(10 g) = 2.51 W/kg**

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



# System Performance Check Data (2600MHz Head)

Date: 2021.12.02

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

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.969$  S/m;  $\epsilon_r = 39.245$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW 2600 100mW /Area Scan (101x101x1):** Interpolated grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 6.33 W/kg

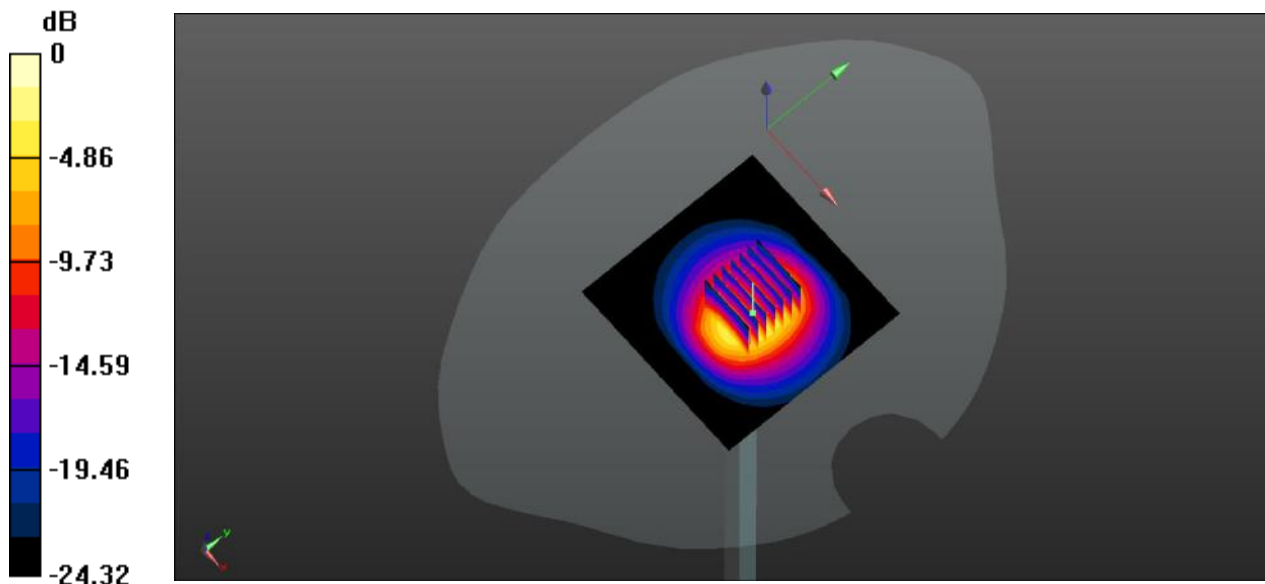
**CW 2600 100mW /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 47.68 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 12.6 W/kg

**SAR(1 g) = 5.59 W/kg; SAR(10 g) = 2.37 W/kg**

Maximum value of SAR (measured) = 6.23 W/kg



0 dB = 6.23 W/kg



# System Performance Check Data (2600MHz Head)

Date: 2021.12.03

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

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.986$  S/m;  $\epsilon_r = 38.871$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW 2600 100mW /Area Scan (101x101x1):** Interpolated grid: dx=10mm, dy=10mm

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

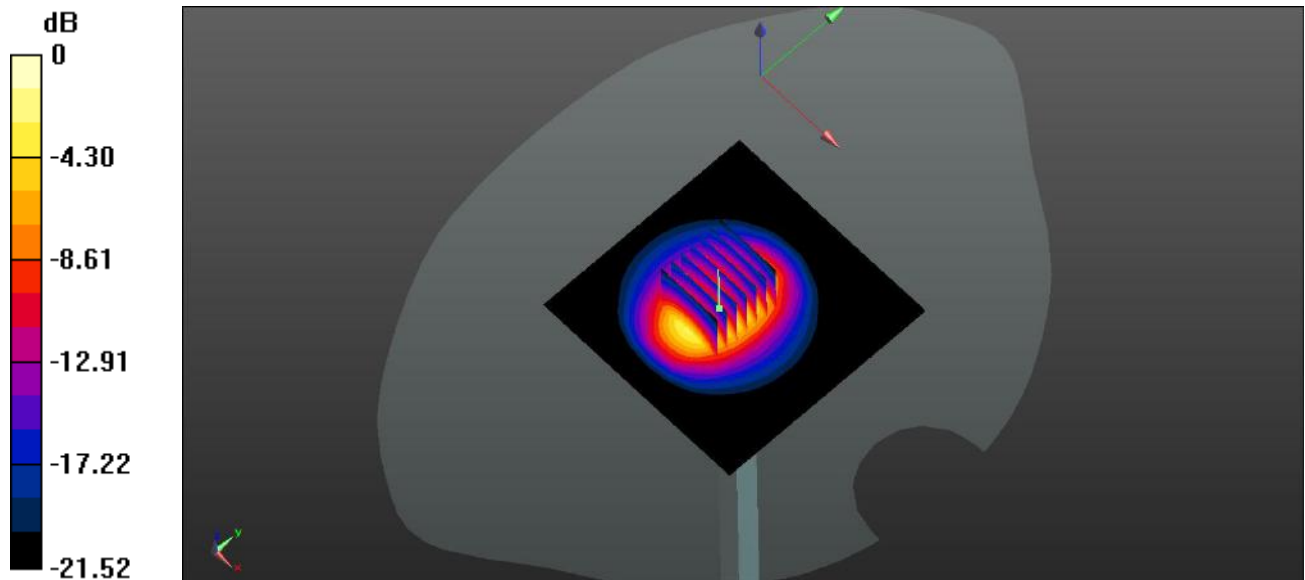
**CW 2600 100mW /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 51.55 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 12.13 W/kg

**SAR(1 g) = 5.45 W/kg; SAR(10 g) = 2.49 W/kg**

Maximum value of SAR (measured) = 6.63 W/kg



0 dB = 6.63 W/kg

# System Performance Check Data (2600MHz Head)

Date: 2021.12.04

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

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.943$  S/m;  $\epsilon_r = 39.421$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.8 Liquid Temperature: 21.9

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW 2600 100mW /Area Scan (101x101x1):** Interpolated grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 6.23 W/kg

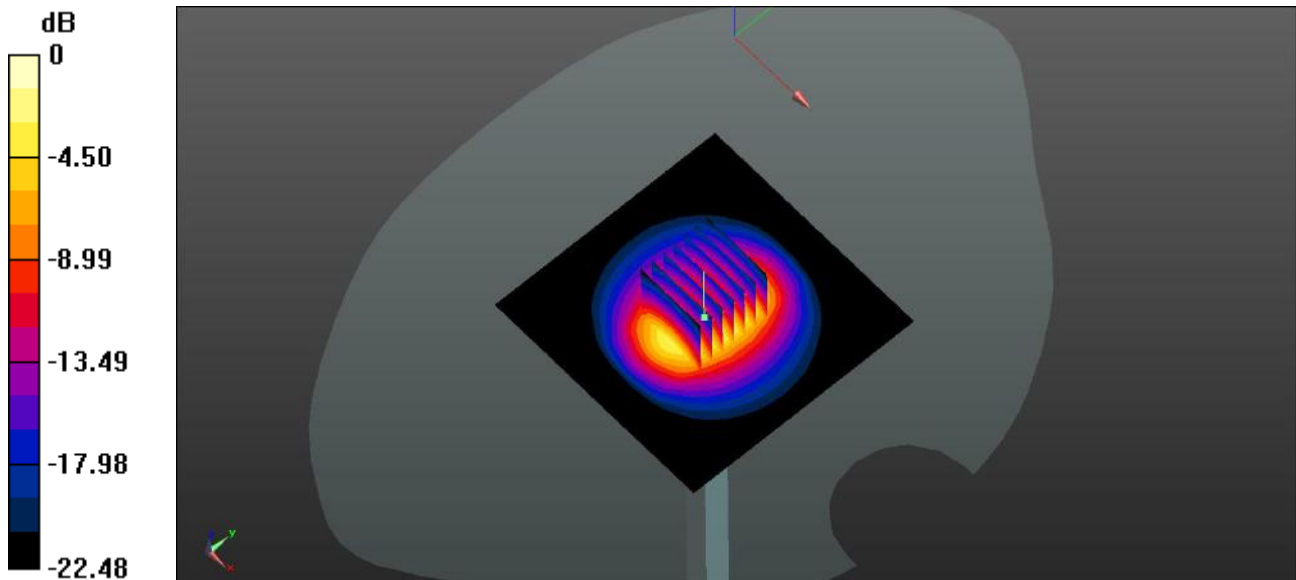
**CW 2600 100mW /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.43 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 10.3 W/kg

**SAR(1 g) = 5.64 W/kg; SAR(10 g) = 2.47 W/kg**

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



0 dB = 6.28 W/kg

# System Performance Check Data (2600MHz Head)

Date: 2021.12.05

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

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.961$  S/m;  $\epsilon_r = 38.117$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.9

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW 2600 100mW /Area Scan (101x101x1):** Interpolated grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 6.51 W/kg

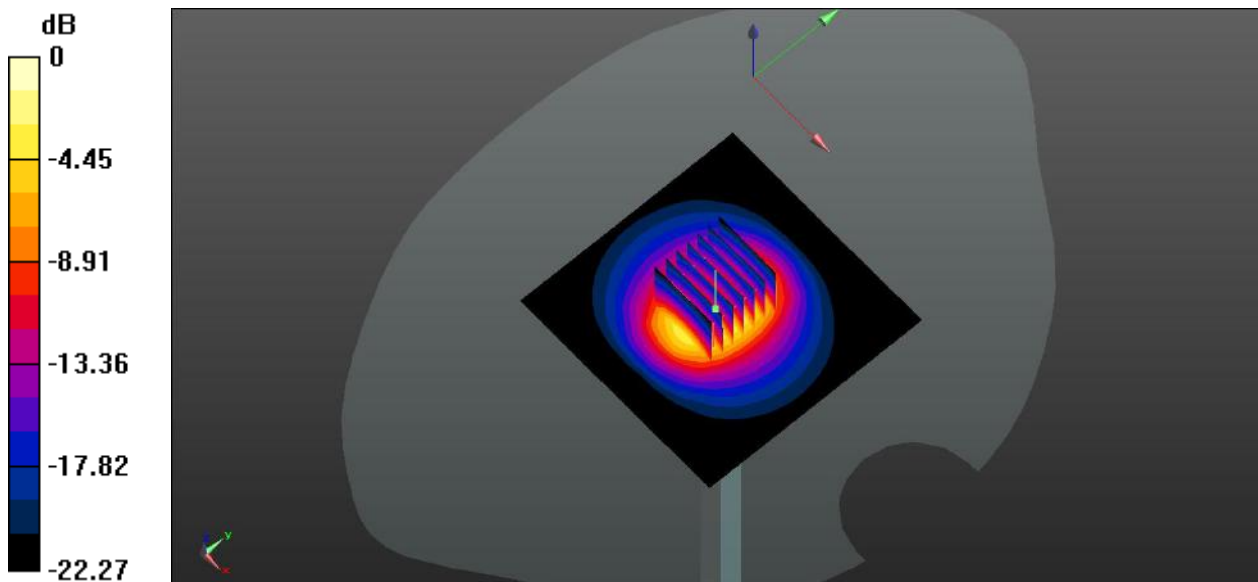
**CW 2600 100mW /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 45.74 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 13.9 W/kg

**SAR(1 g) = 5.57 W/kg; SAR(10 g) = 2.4 W/kg**

Maximum value of SAR (measured) = 6.57 W/kg



0 dB = 6.57 W/kg

# System Performance Check Data (2600MHz Head)

Date: 2021.12.06

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

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.984$  S/m;  $\epsilon_r = 39.897$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.1 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW 2600 100mW /Area Scan (101x101x1):** Interpolated grid: dx=10mm, dy=10mm

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

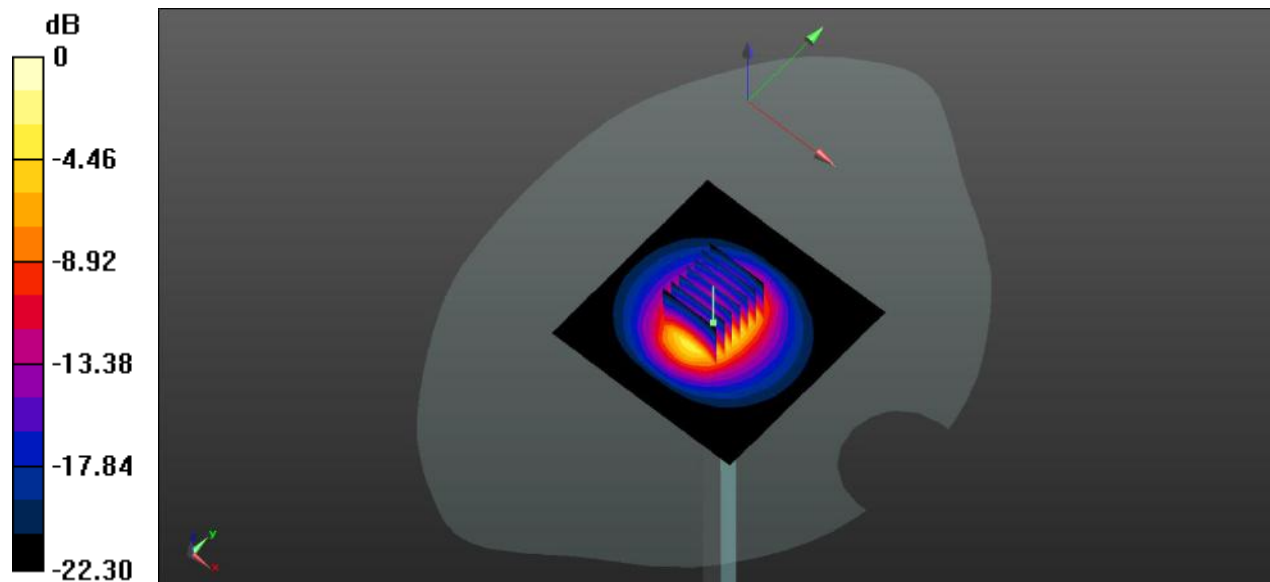
**CW 2600 100mW /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.24 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 13.7 W/kg

**SAR(1 g) = 5.53 W/kg; SAR(10 g) = 2.48 W/kg**

Maximum value of SAR (measured) = 6.27 W/kg



0 dB = 6.27 W/kg

# System Performance Check Data (2600MHz Head)

Date: 2021.12.07

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

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.923$  S/m;  $\epsilon_r = 39.668$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**CW 2600 100mW /Area Scan (101x101x1):** Interpolated grid: dx=10mm, dy=10mm

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

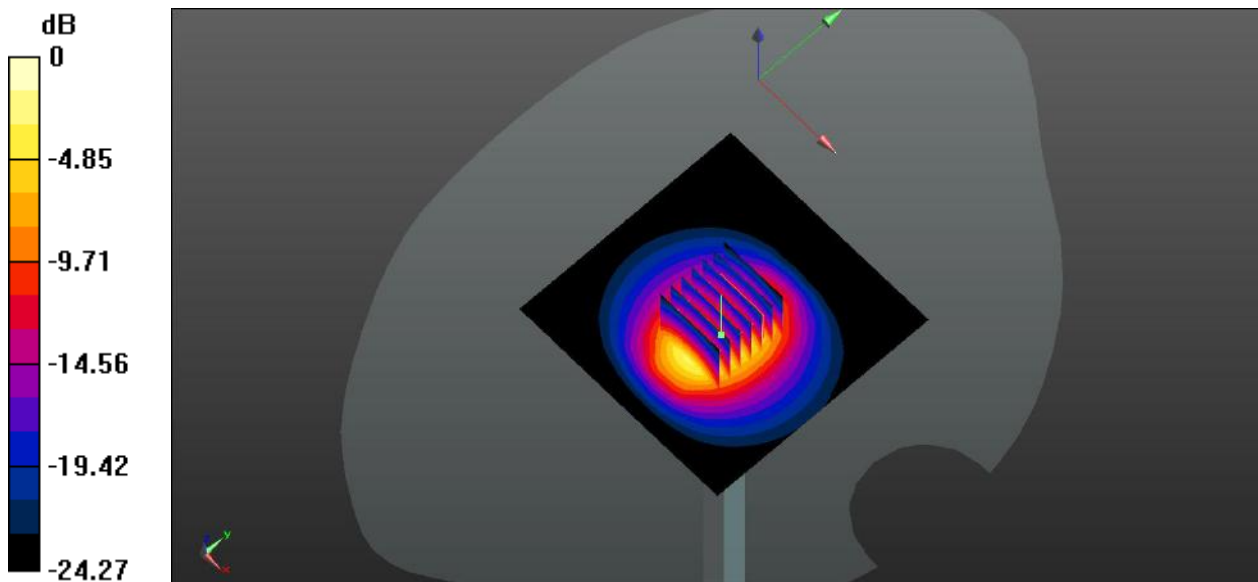
**CW 2600 100mW /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 46.74 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 12.7 W/kg

**SAR(1 g) = 5.41 W/kg; SAR(10 g) = 2.41 W/kg**

Maximum value of SAR (measured) = 6.61 W/kg



0 dB = 6.61W/kg

# System Performance Check Data (5250MHz Head)

Date: 2021.11.26

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

Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.579$  S/m;  $\epsilon_r = 36.875$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(5.72, 5.72, 5.72); Calibrated: 2021.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); 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) = 8.23 W/kg

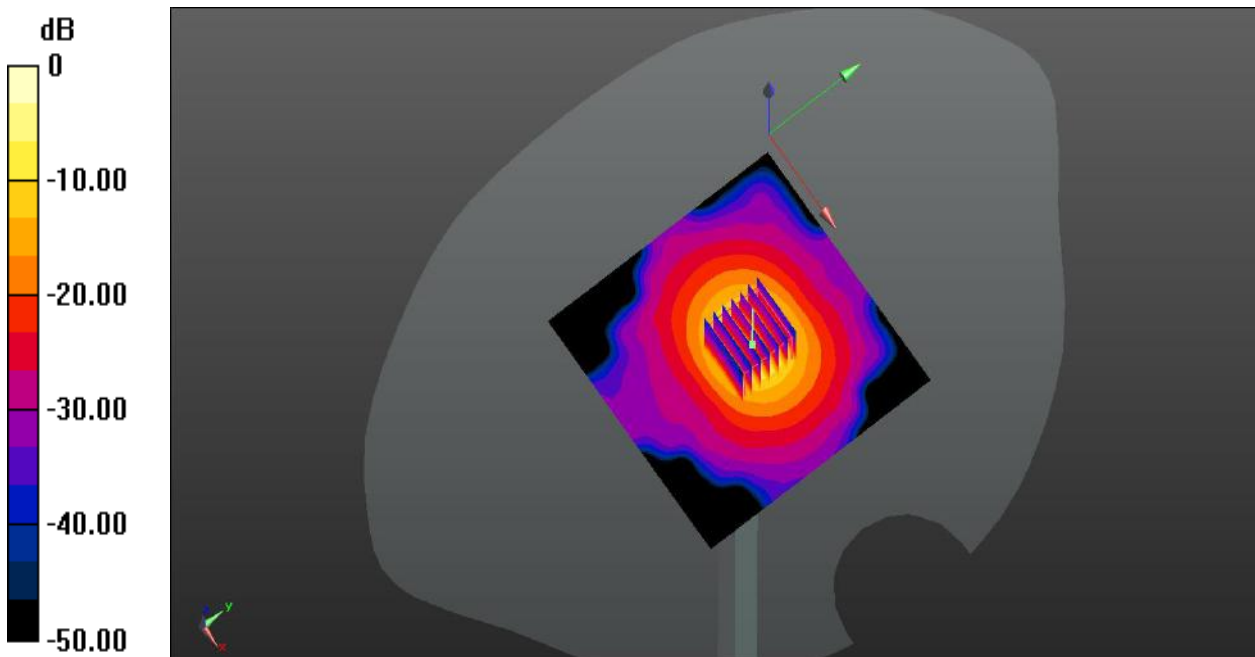
**CW 5250 100mW/Zoom Scan (7x7x21)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 46.45 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 33.85 W/kg

**SAR(1 g) = 8.09 W/kg; SAR(10 g) = 2.2 W/kg**

Maximum value of SAR (measured) = 20.8 W/kg



0 dB = 20.8 W/kg

# System Performance Check Data (5600MHz Head)

Date: 2021.11.27

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

Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.01$  S/m;  $\epsilon_r = 35.91$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(5.1, 5.1, 5.1); Calibrated: 2021.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); 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) = 9.24 W/kg

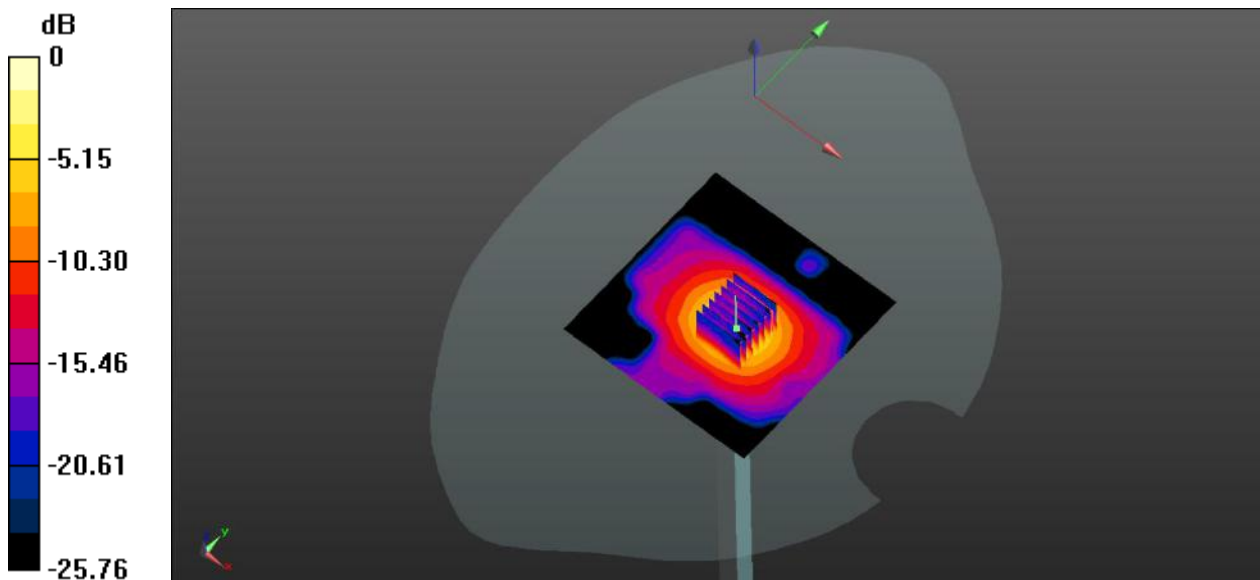
**CW 5600 100mW /Zoom Scan (7x7x21)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 32.54 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 48.31 W/kg

**SAR(1 g) = 8.22 W/kg; SAR(10 g) = 2.29 W/kg**

Maximum value of SAR (measured) = 16.8 W/kg



0 dB = 16.8 W/kg

# System Performance Check Data (5750MHz Head)

Date: 2021.11.28

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

Medium parameters used:  $f = 5750$  MHz;  $\sigma = 5.182$  S/m;  $\epsilon_r = 35.183$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.2 Liquid Temperature: 21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(5.15, 5.15, 5.15); Calibrated: 2021.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 8.96 W/kg

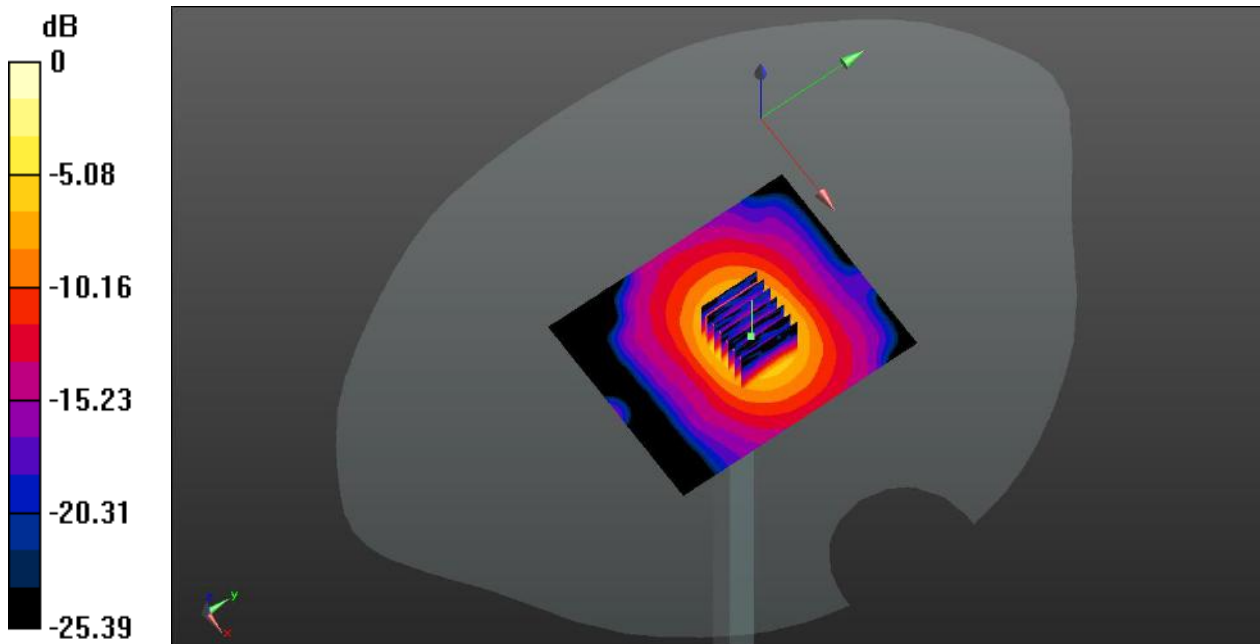
**CW 5750 100mW/Zoom Scan (7x7x21)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 44.13 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 46.74 W/kg

**SAR(1 g) = 7.65 W/kg; SAR(10 g) = 2.22 W/kg**

Maximum value of SAR (measured) = 10.38 W/kg



0 dB = 10.38 W/kg



# System Performance Check Data (1900MHz Head)

Date: 2022.02.11

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

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.406$  S/m;  $\epsilon_r = 40.44$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.6

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 on left 1859; Type: QD000P40CC; Serial: TP:1859
- 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) = 4.32 W/kg

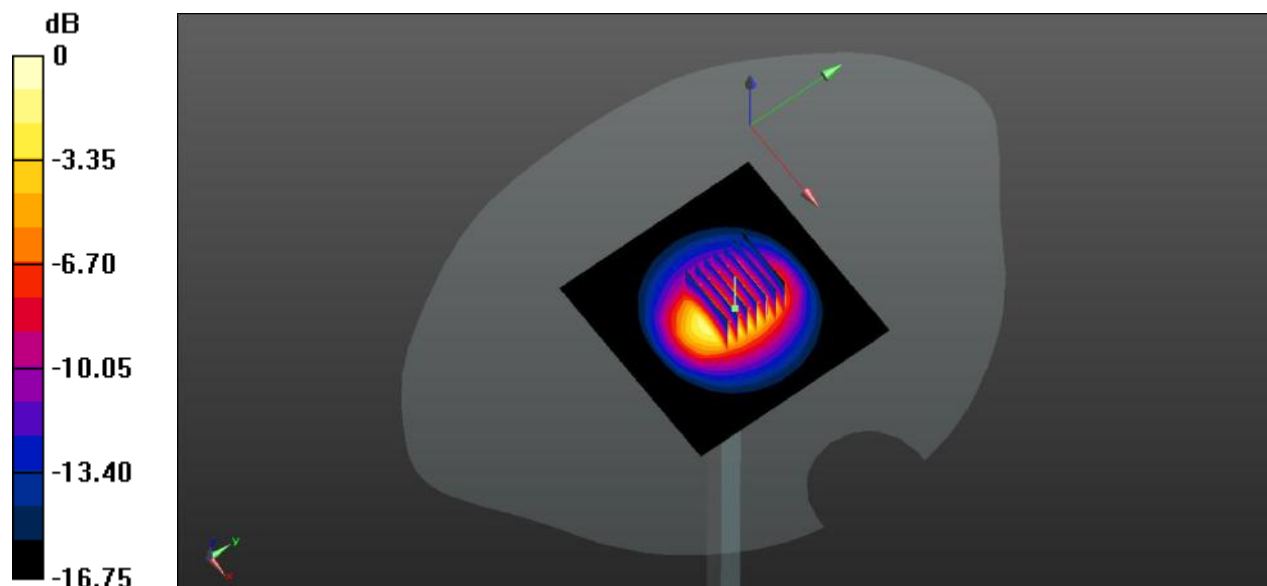
**CW 1900 100mw/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.52 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 7.33 W/kg

**SAR(1 g) = 3.91 W/kg; SAR(10 g) = 1.91 W/kg**

Maximum value of SAR (measured) = 4.34 W/kg



0 dB = 4.34 W/kg

# System Performance Check Data (2600MHz Head)

Date: 2022.02.12

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

Medium parameters used (extrapolated):  $f = 2600$  MHz;  $\sigma = 1.974$  S/m;  $\epsilon_r = 39.212$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.4

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 on left 1859; Type: QD000P40CC; Serial: TP:1859
- 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) = 6.22 W/kg

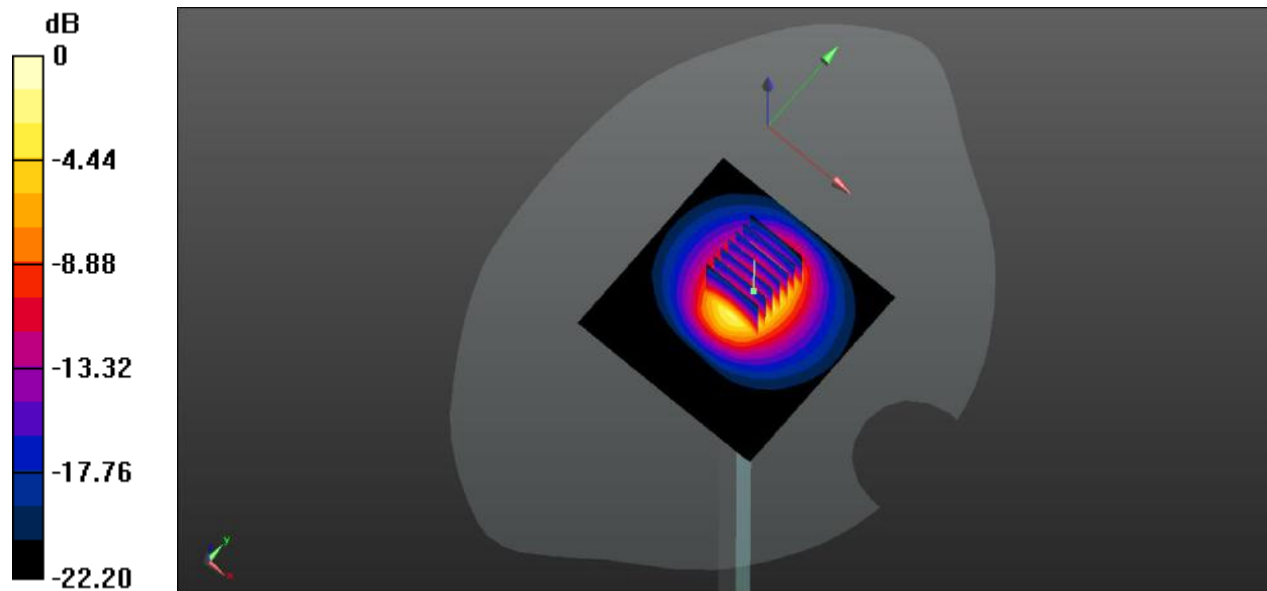
**CW 2600 100mw/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 47.77 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 14.1 W/kg

**SAR(1 g) = 5.55 W/kg; SAR(10 g) = 2.49 W/kg**

Maximum value of SAR (measured) = 6.19 W/kg



0 dB = 6.19 W/kg

# System Performance Check Data (5600MHz Head)

Date: 2022.02.13

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

Medium parameters used:  $f = 5600$  MHz;  $\sigma = 4.888$  S/m;  $\epsilon_r = 35.637$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.7

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 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**CW 5600 100mW/Area Scan (101x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 20.6 W/kg

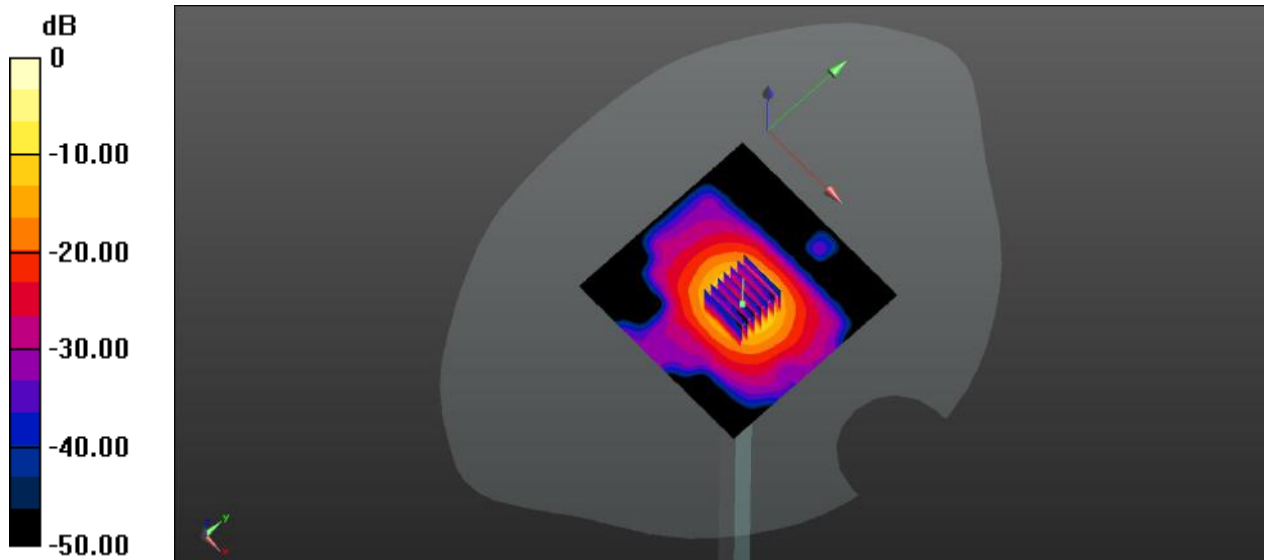
**CW 5600 100mW/Zoom Scan (7x7x21)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 33.57 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 40.1 W/kg

**SAR(1 g) = 7.86 W/kg; SAR(10 g) = 2.24 W/kg**

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



0 dB = 19.7 W/kg

# System Performance Check Data (5750MHz Head)

Date: 2022.02.14

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

Medium parameters used:  $f = 5750$  MHz;  $\sigma = 5.303$  S/m;  $\epsilon_r = 36.598$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.7 Liquid Temperature: 21.5

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 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 15.5 W/kg

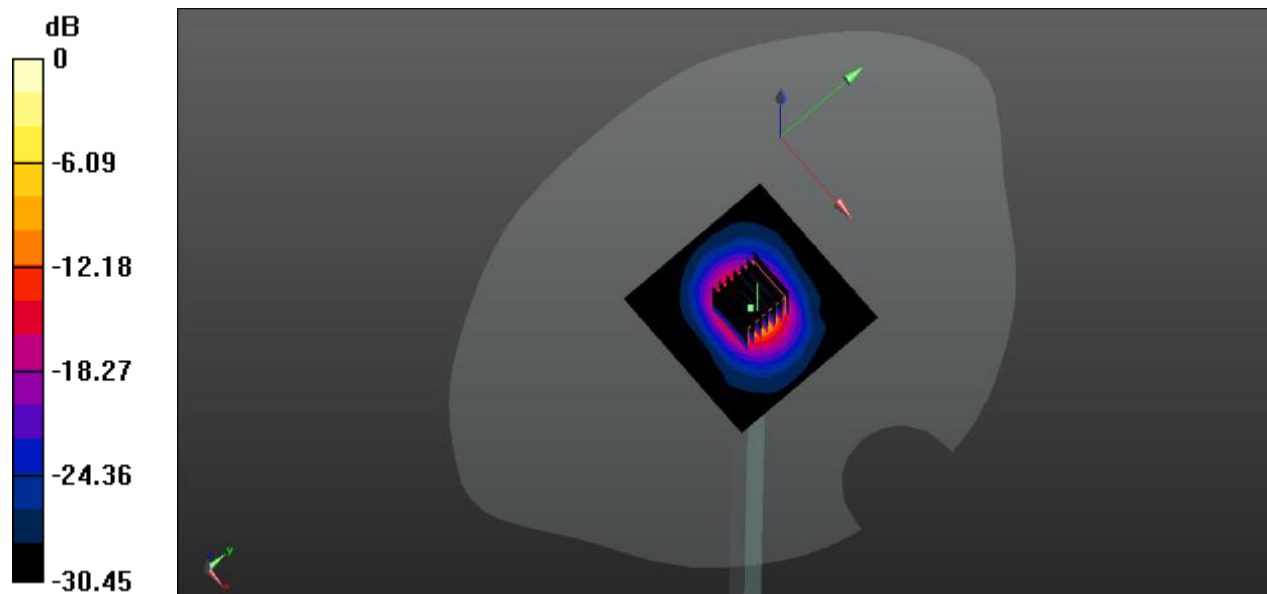
**CW 5750 100mW/Zoom Scan (7x7x15)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 42.36 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 37.2 W/kg

**SAR(1 g) = 7.79 W/kg; SAR(10 g) = 2.13 W/kg**

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



0 dB = 14.6 W/kg

# ANNEX C TEST DATA

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

Date: 2021.11.09

Communication System Band: GPRS 850; Frequency: 824.2 MHz; Duty Cycle: 1:2.08

Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.886$  S/m;  $\epsilon_r = 41.979$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature:22.7 Liquid Temperature:21.9

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.952 W/kg

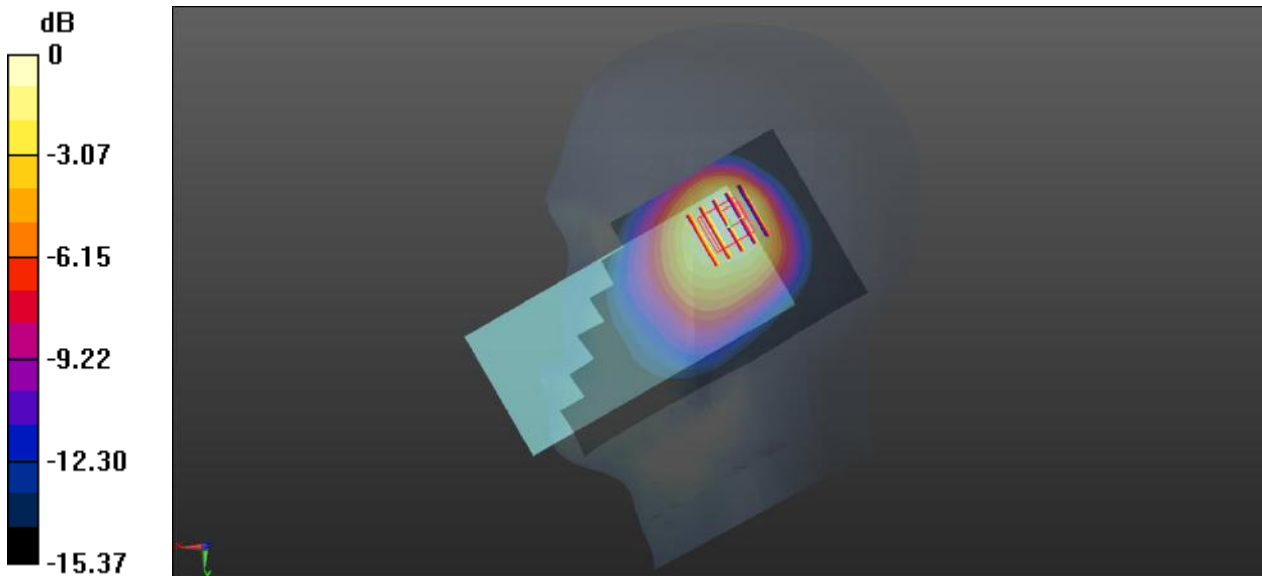
**Ch128/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.39 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.54 W/kg

**SAR(1 g) = 0.835 W/kg; SAR(10 g) = 0.521 W/kg**

Maximum value of SAR (measured) = 0.862 W/kg



0 dB = 0.862 W/kg

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

Date: 2021.11.09

Communication System Band: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.1

Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.902$  S/m;  $\epsilon_r = 41.678$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.9

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); 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) = 0.115 W/kg

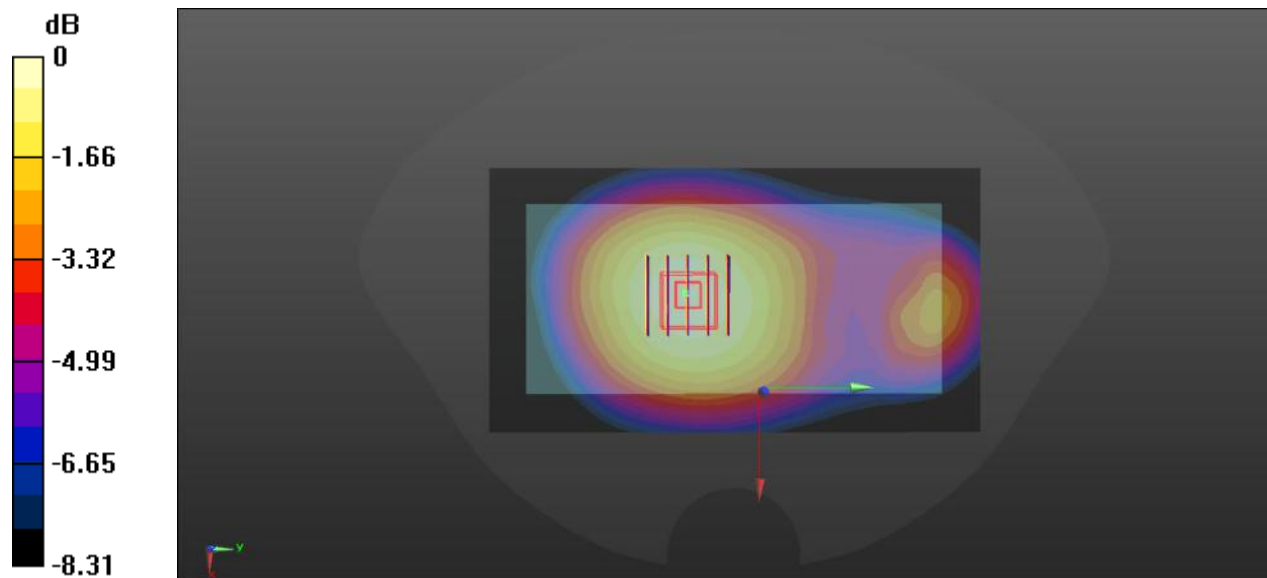
**Ch190/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.68 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.139 W/kg

**SAR(1 g) = 0.110 W/kg; SAR(10 g) = 0.083 W/kg**

Maximum value of SAR (measured) = 0.117 W/kg



0 dB = 0.117 W/kg

**Meas.3 Body Plane with Back Side 10mm on High Channel in GPRS850 2Slots mode with Antenna 1**

Date: 2021.11.09

Communication System Band: GPRS 850; Frequency: 848.8 MHz; Duty Cycle: 1:4.1

Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.916$  S/m;  $\epsilon_r = 41.428$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.9

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.266 W/kg

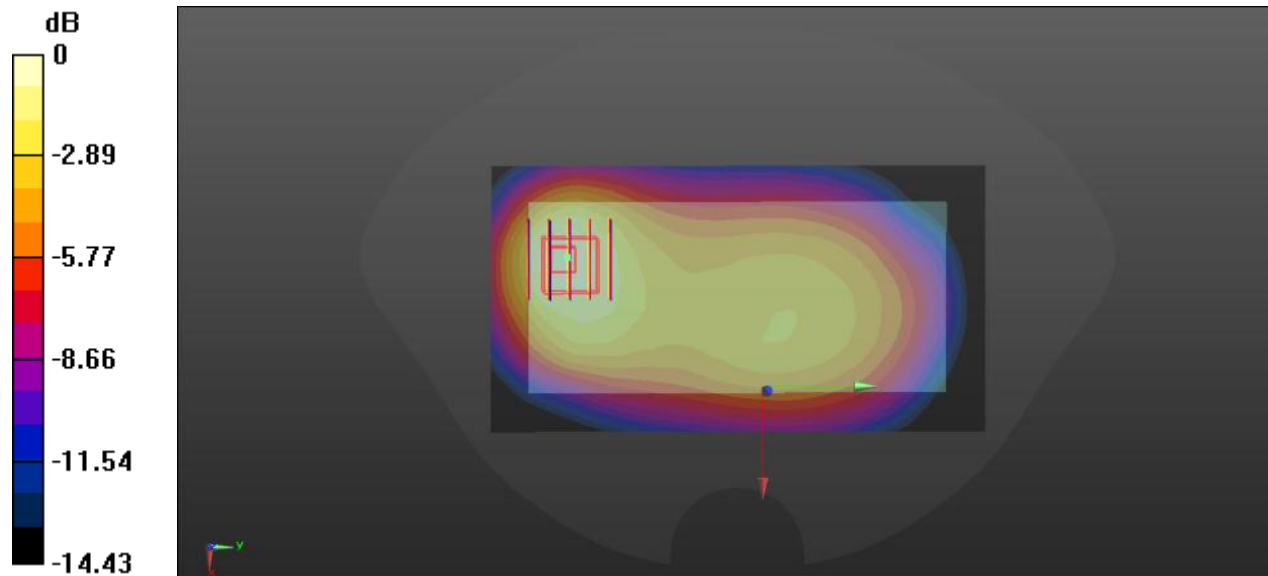
**Ch251/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.19 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.407 W/kg

**SAR(1 g) = 0.249 W/kg; SAR(10 g) = 0.156 W/kg**

Maximum value of SAR (measured) = 0.269 W/kg



0 dB = 0.269 W/kg

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

Date: 2021.11.10

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:2.08

Medium parameters used (interpolated):  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.429 \text{ S/m}$ ;  $\epsilon_r = 40.756$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Ambient Temperature:22.5 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.57, 8.57, 8.57); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch661/Area Scan (71x131x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

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

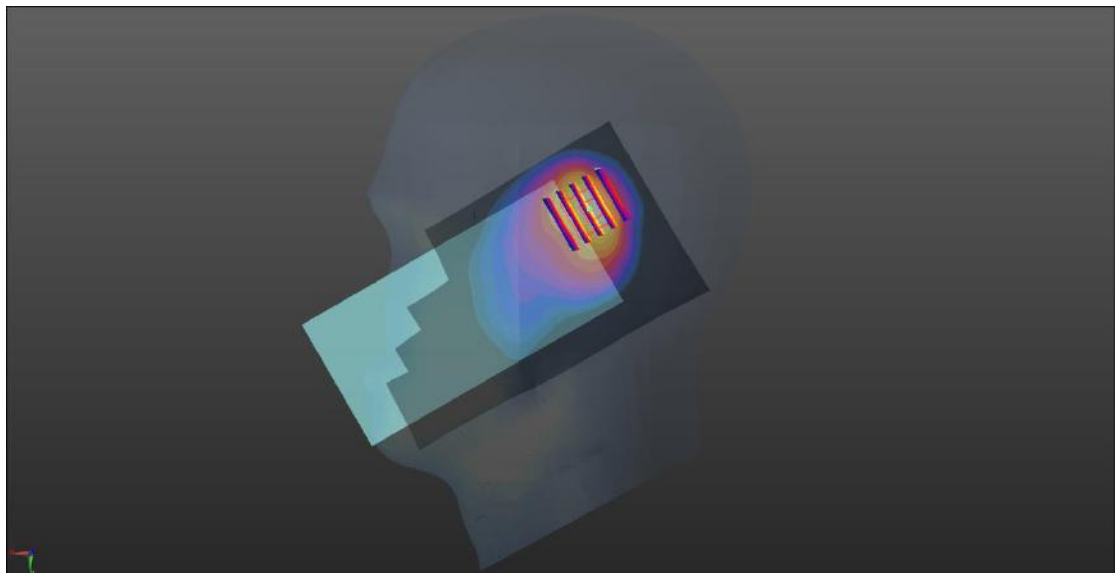
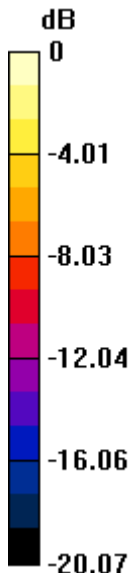
**Ch661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 13.80 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 2.14 W/kg

**SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.464 W/kg**

Maximum value of SAR (measured) = 1.22 W/kg



0 dB = 1.22 W/kg



**Meas.5 Body Plane with Back Side 15mm on High Channel in GPRS1900 4Slots mode with Antenna 0**

Date: 2021.11.10

Communication System: GPRS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:2.08

Medium parameters used (interpolated):  $f = 1850.2 \text{ MHz}$ ;  $\sigma = 1.427 \text{ S/m}$ ;  $\epsilon_r = 40.92$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.57, 8.57, 8.57); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch512/Area Scan (71x131x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

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

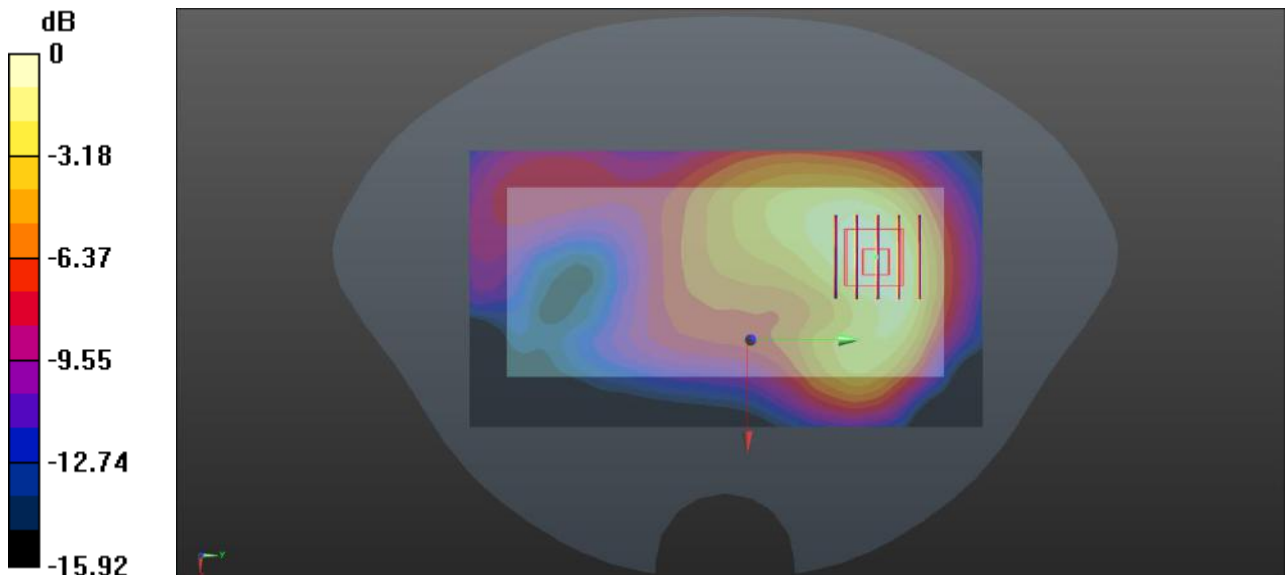
**Ch512/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 7.218 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.419 W/kg

**SAR(1 g) = 0.265 W/kg; SAR(10 g) = 0.161 W/kg**

Maximum value of SAR (measured) = 0.287 W/kg



0 dB = 0.287 W/kg

**Meas.6 Body Plane with Top Edge 10mm on High Channel in GPRS1900 4Slots mode with Antenna 1**

Date: 2021.11.10

Communication System: GPRS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:2.08

Medium parameters used (interpolated):  $f = 1909.8 \text{ MHz}$ ;  $\sigma = 1.434 \text{ S/m}$ ;  $\epsilon_r = 40.512$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.57, 8.57, 8.57); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch810/Area Scan (51x71x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

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

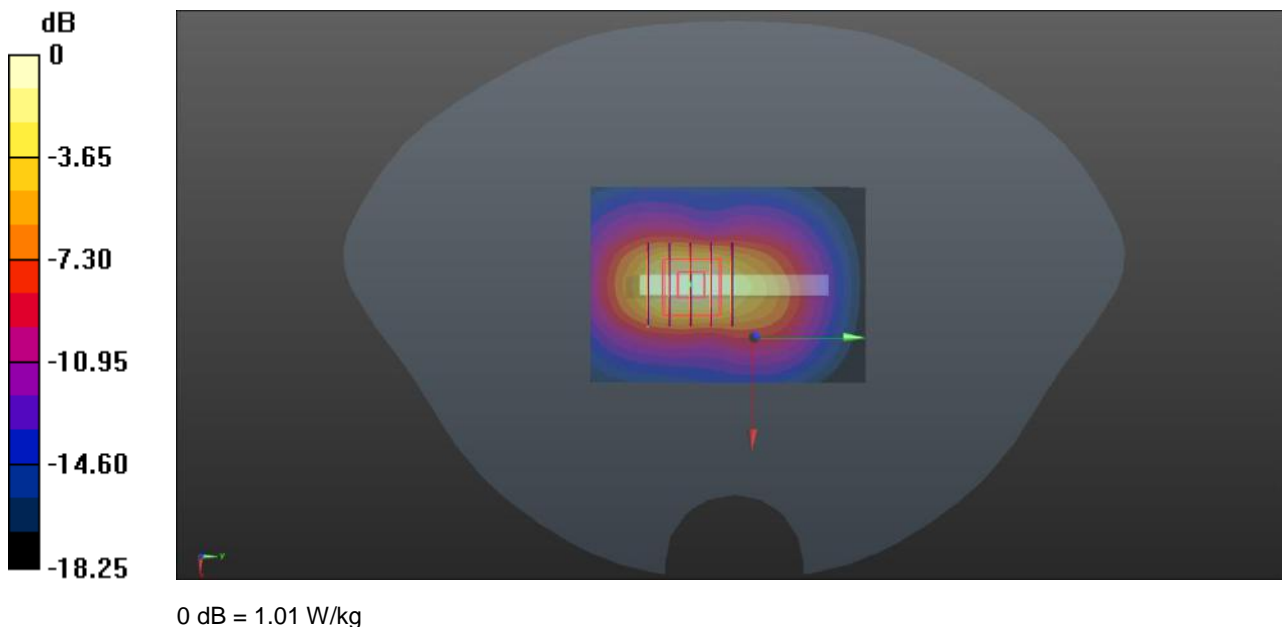
**Ch810/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 20.53 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.59 W/kg

**SAR(1 g) = 0.878 W/kg; SAR(10 g) = 0.444 W/kg**

Maximum value of SAR (measured) = 1.01 W/kg



**Meas.7 Right Head with Tilt on High Channel in WCDMA B2 mode with Antenna 1**

Date: 2021.11.10

Communication System: II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1907.6 \text{ MHz}$ ;  $\sigma = 1.433 \text{ S/m}$ ;  $\epsilon_r = 40.593$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Ambient Temperature: 22.5 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.57, 8.57, 8.57); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch9538/Area Scan (71x131x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.19 W/kg

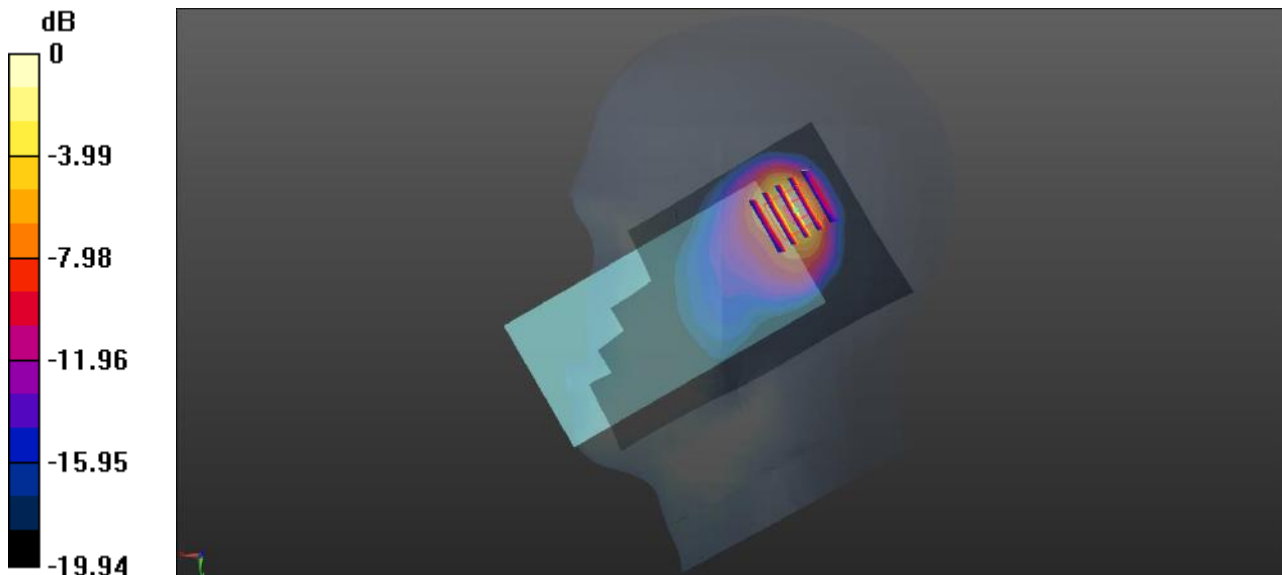
**Ch9538/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 6.361 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.03 W/kg

**SAR(1 g) = 0.962 W/kg; SAR(10 g) = 0.435 W/kg**

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



0 dB = 1.16 W/kg

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

Date: 2021.11.10

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

Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.429$  S/m;  $\epsilon_r = 40.756$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.57, 8.57, 8.57); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.233 W/kg

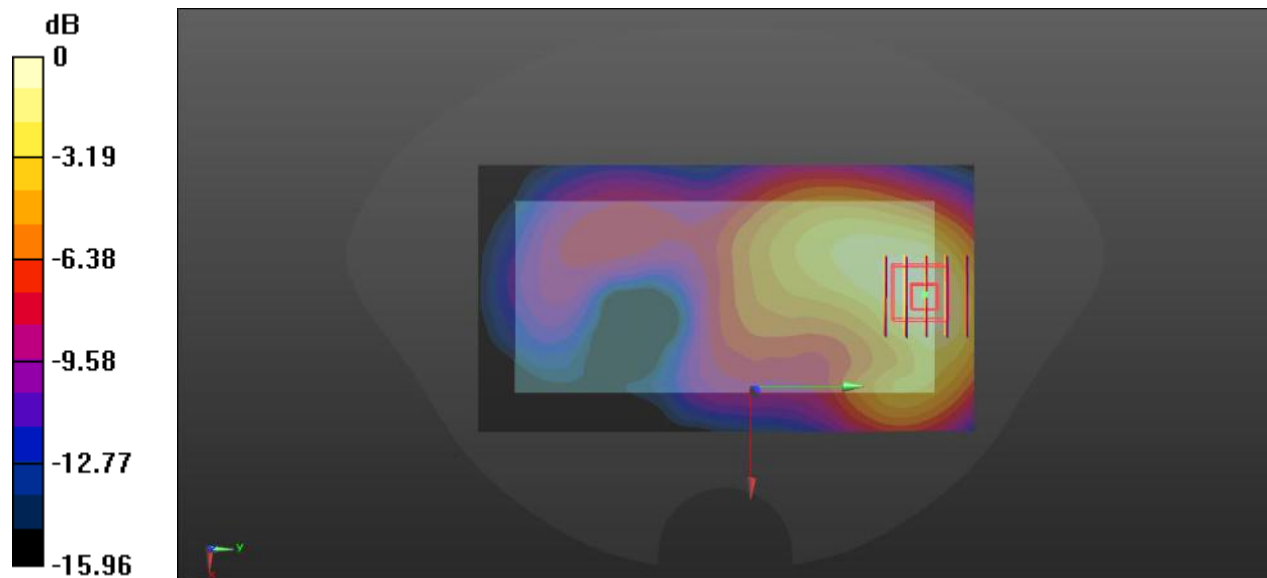
**Ch9400/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.684 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.346 W/kg

**SAR(1 g) = 0.216 W/kg; SAR(10 g) = 0.131 W/kg**

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



0 dB = 0.235 W/kg

**Meas.9 Body Plane with Bottom Edge 10mm on Middle Channel in WCDMA Band2 mode with Antenna 0**

Date: 2021.11.10

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

Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.429$  S/m;  $\epsilon_r = 40.756$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.57, 8.57, 8.57); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.695 W/kg

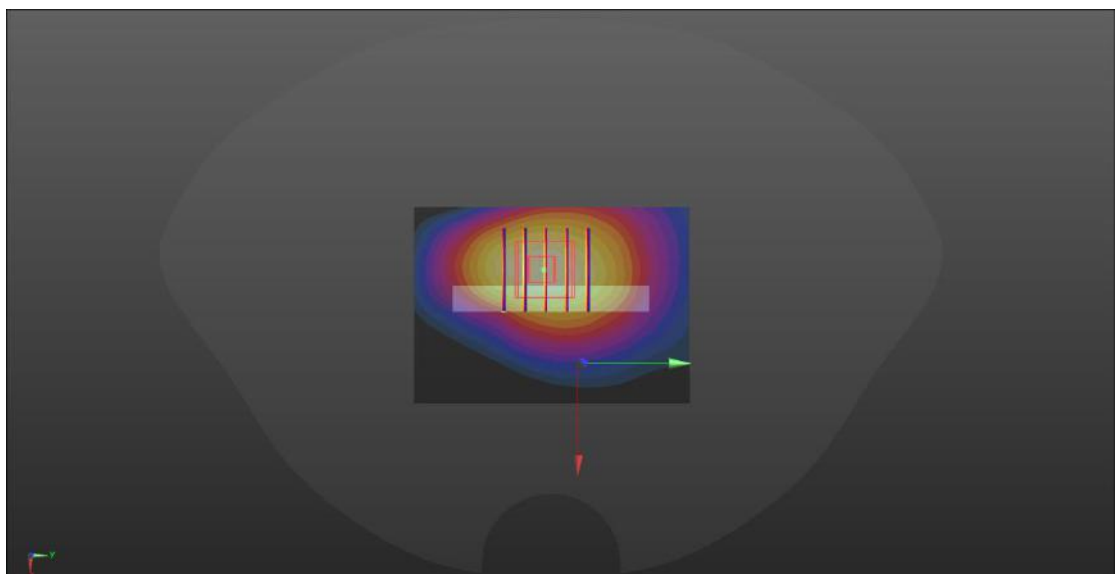
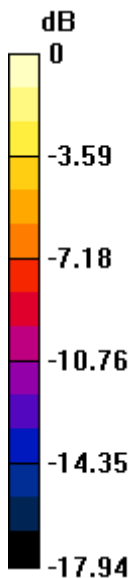
**Ch9400/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.70 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.03 W/kg

**SAR(1 g) = 0.604 W/kg; SAR(10 g) = 0.335 W/kg**

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



0 dB = 0.669 W/kg

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

Date: 2021.11.10

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

Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.429$  S/m;  $\epsilon_r = 40.756$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.57, 8.57, 8.57); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

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

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

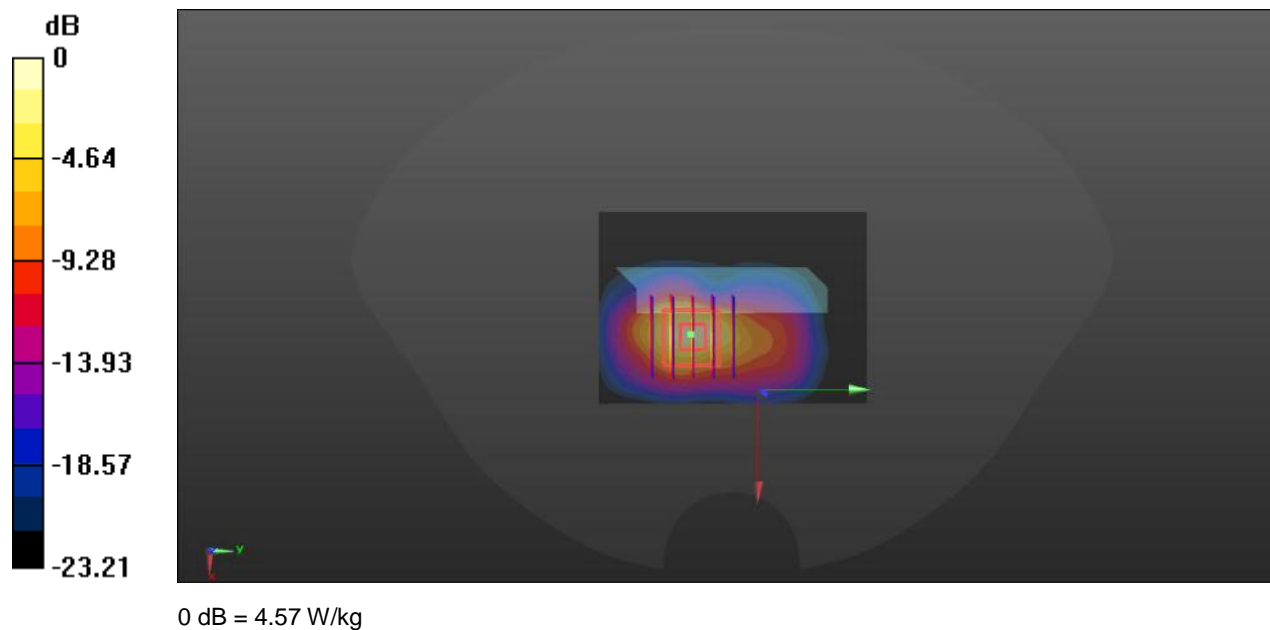
**Ch9400/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.25 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 9.29 W/kg

**SAR(1 g) = 3.65 W/kg; SAR(10 g) = 1.42 W/kg**

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



**Meas.11 Right Head with Tilt on Middle Channel in WCDMA Band4 mode with Antenna 1**

Date: 2021.11.12

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

Medium parameters used (interpolated):  $f = 1732.4$  MHz;  $\sigma = 1.379$  S/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature:22.5 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); 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) = 1.09 W/kg

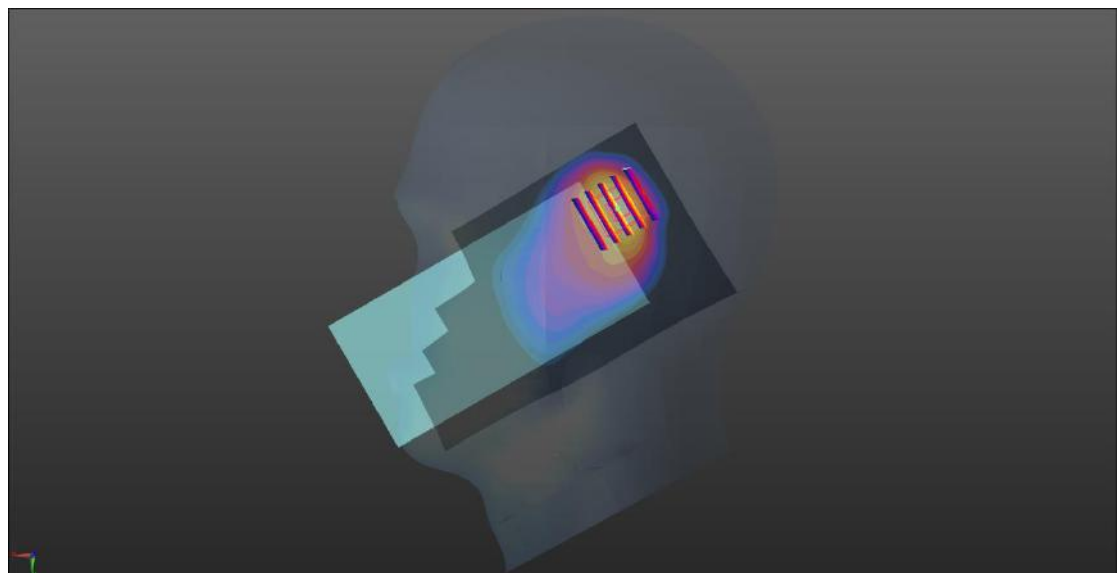
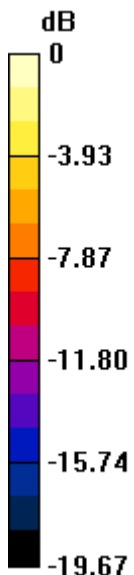
**Ch1412/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.86 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.85 W/kg

**SAR(1 g) = 0.883 W/kg; SAR(10 g) = 0.404 W/kg**

Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg

**Meas.12 Body Plane with Back Side 15mm on Middle Channel in WCDMA Band4 with Antenna 0**

Date: 2021.11.12

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

Medium parameters used (interpolated):  $f = 1732.4$  MHz;  $\sigma = 1.379$  S/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); 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) = 0.205 W/kg

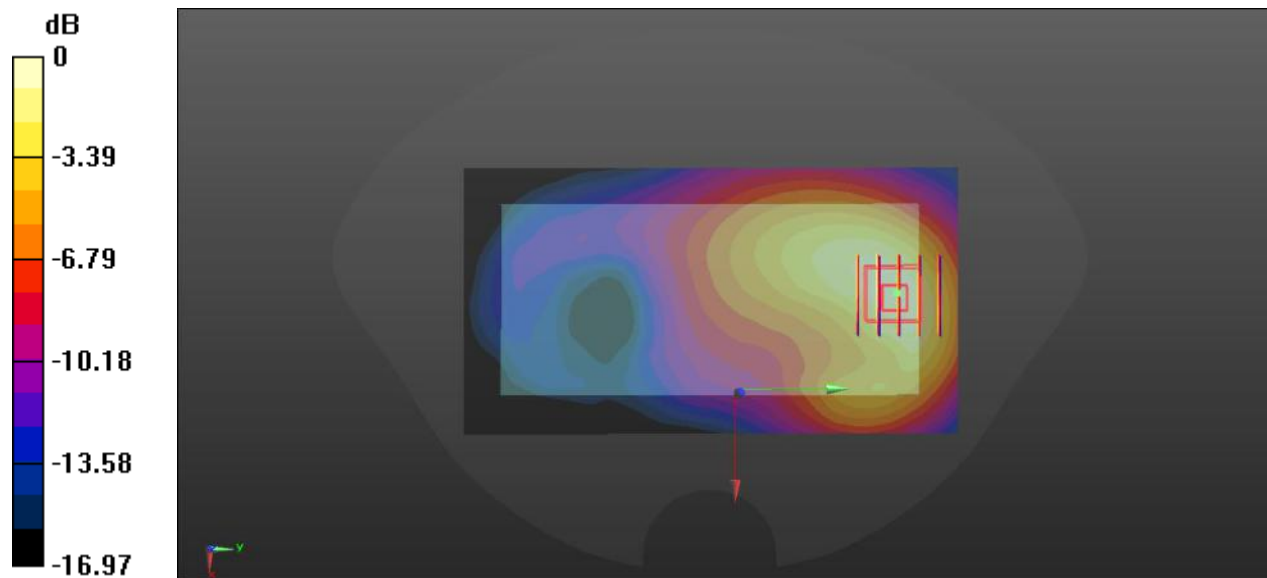
**Ch1412/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.173 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.305 W/kg

**SAR(1 g) = 0.196 W/kg; SAR(10 g) = 0.119 W/kg**

Maximum value of SAR (measured) = 0.213 W/kg



0 dB = 0.213 W/kg



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

Date: 2021.11.12

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

Medium parameters used (interpolated):  $f = 1732.4$  MHz;  $\sigma = 1.379$  S/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.831 W/kg

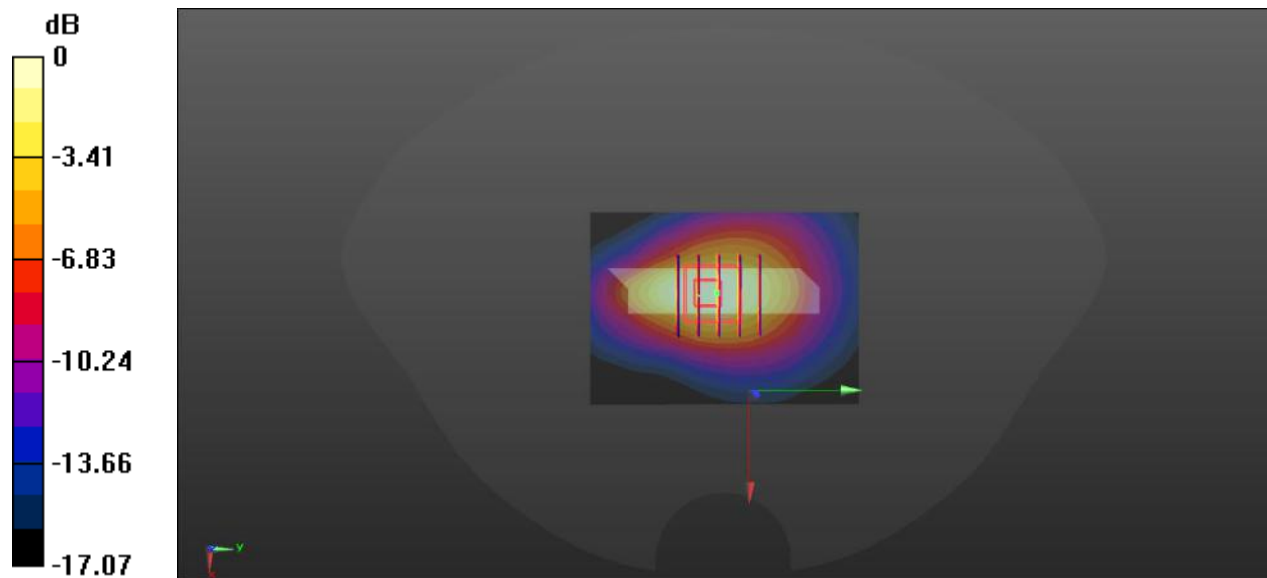
**Ch1412/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.58 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.19 W/kg

**SAR(1 g) = 0.707 W/kg; SAR(10 g) = 0.391 W/kg**

Maximum value of SAR (measured) = 0.777 W/kg



0 dB = 0.777 W/kg

**Meas.14 Body Plane with Bottom Edge 0mm on Middle Channel in WCDMA Band4 mode with Antenna 0**

Date: 2021.11.12

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

Medium parameters used (interpolated):  $f = 1732.4$  MHz;  $\sigma = 1.379$  S/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

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

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

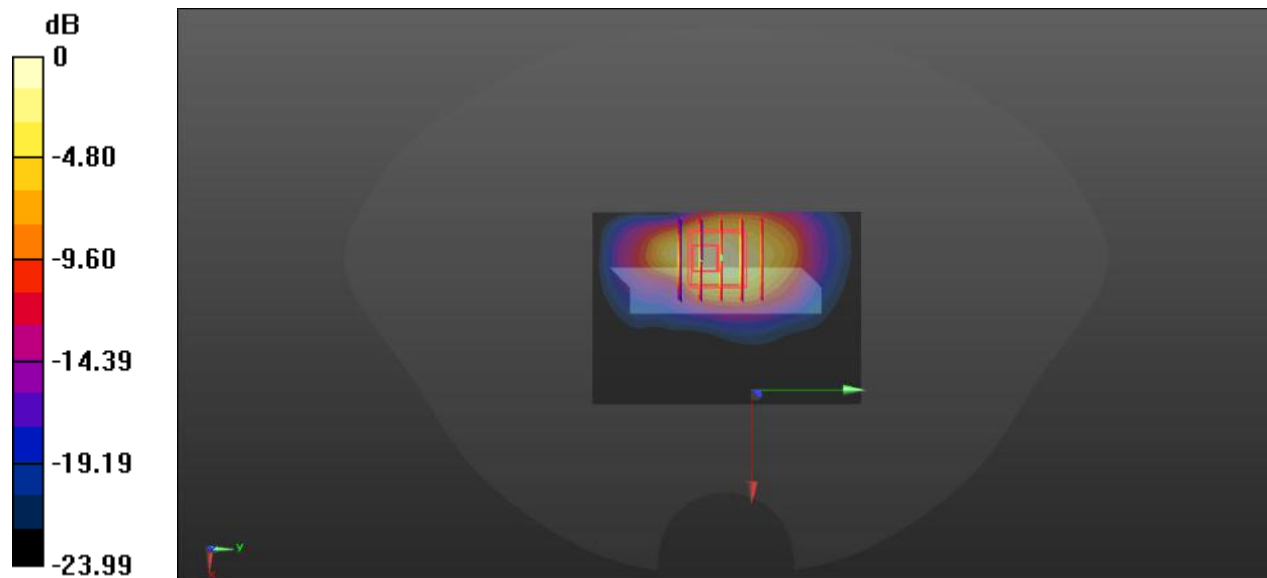
**Ch1412/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.93 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 9.24 W/kg

**SAR(1 g) = 3.89 W/kg; SAR(10 g) = 1.75 W/kg**

Maximum value of SAR (measured) = 4.96 W/kg



0 dB = 4.96 W/kg

**Meas.15 Right Head with Cheek on Low Channel in WCDMA B5 mode with Antenna 1**

Date: 2021.11.11

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

Medium parameters used (interpolated):  $f = 826.4$  MHz;  $\sigma = 0.896$  S/m;  $\epsilon_r = 40.923$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature:22.9 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.784 W/kg

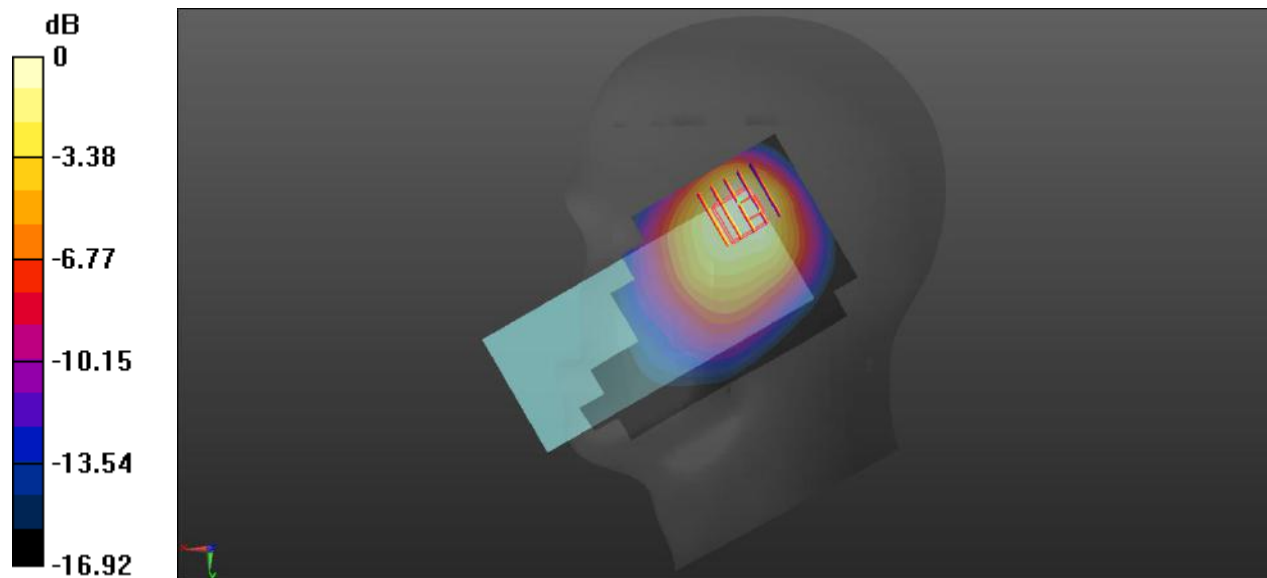
**Ch4132/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.46 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.25 W/kg

**SAR(1 g) = 0.618 W/kg; SAR(10 g) = 0.319 W/kg**

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



0 dB = 0.679 W/kg

**Meas.16 Body Plane with Back Side 15mm on Low Channel in WCDMA Band5 mode with Antenna 1**

Date: 2021.11.11

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

Medium parameters used (interpolated):  $f = 826.4$  MHz;  $\sigma = 0.896$  S/m;  $\epsilon_r = 40.923$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.9 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

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

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

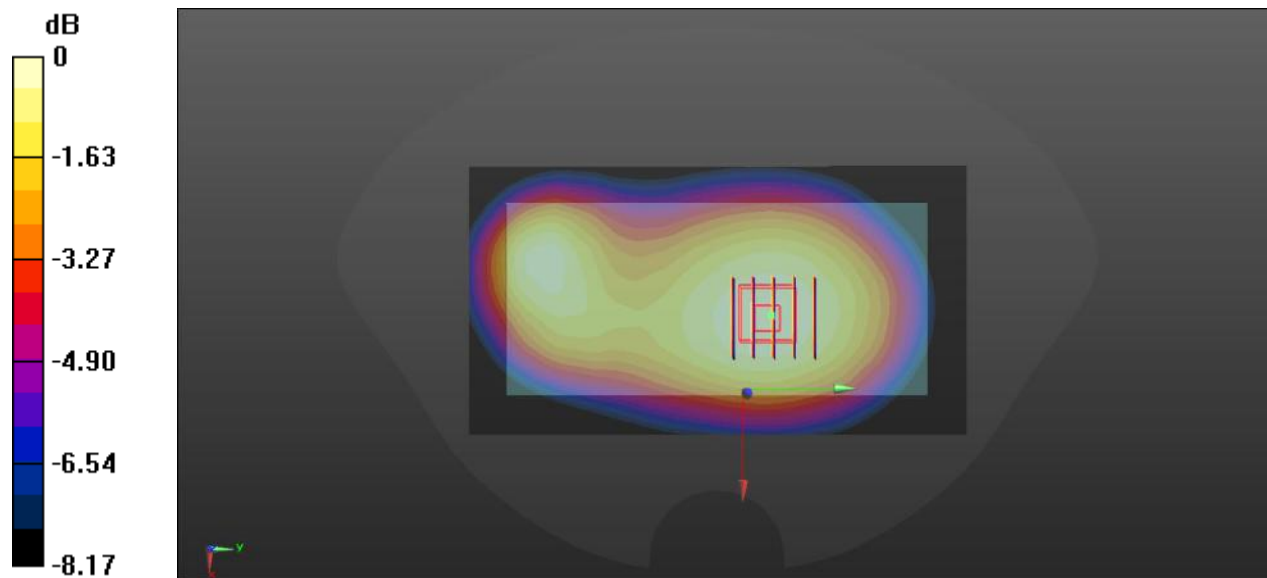
**Ch4132/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.34 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.162 W/kg

**SAR(1 g) = 0.129 W/kg; SAR(10 g) = 0.098 W/kg**

Maximum value of SAR (measured) = 0.136 W/kg



0 dB = 0.136 W/kg

**Meas.17 Body Plane with Back Side 10mm on Low Channel in WCDMA Band5 mode with Antenna 1**

Date: 2021.11.11

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

Medium parameters used (interpolated):  $f = 826.4$  MHz;  $\sigma = 0.896$  S/m;  $\epsilon_r = 40.923$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.9 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.270 W/kg

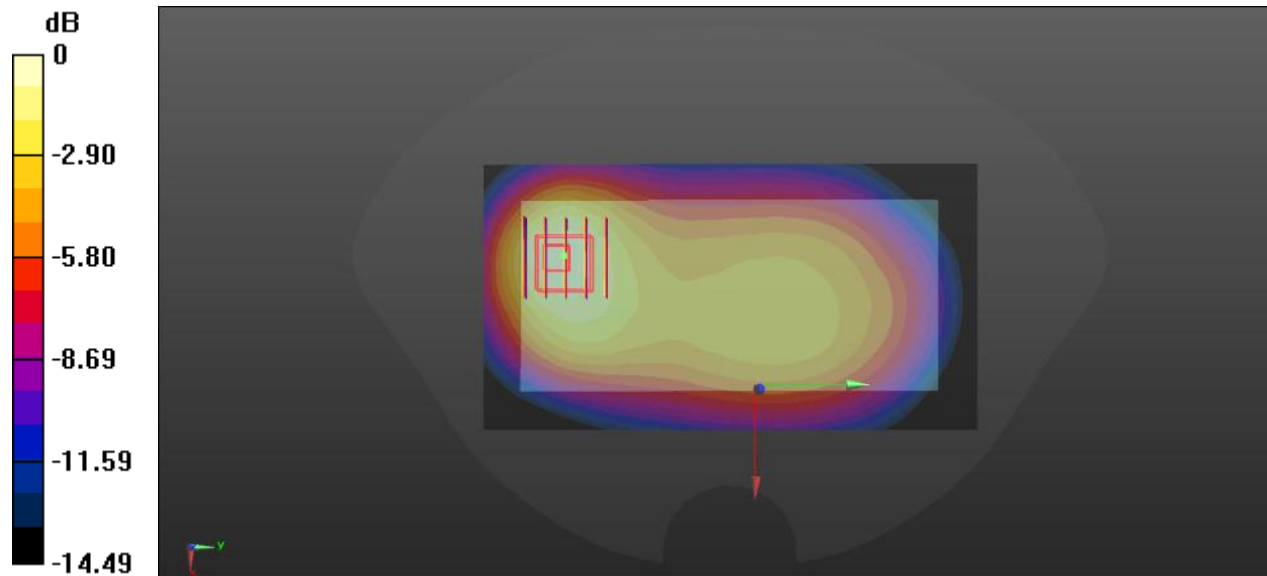
**Ch4132/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.88 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.418 W/kg

**SAR(1 g) = 0.253 W/kg; SAR(10 g) = 0.157 W/kg**

Maximum value of SAR (measured) = 0.270 W/kg



0 dB = 0.270 W/kg

**Meas.18 Right Head with Tilt on High Channel in LTE Band2 mode with Antenna 1**

Date: 2021.11.13

Communication System Band: Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz); Frequency: 1900 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1900$  MHz;  $\sigma = 1.444$  S/m;  $\epsilon_r = 39.707$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature:22.6 Liquid Temperature:21.7

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.57, 8.57, 8.57); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 1.08 W/kg

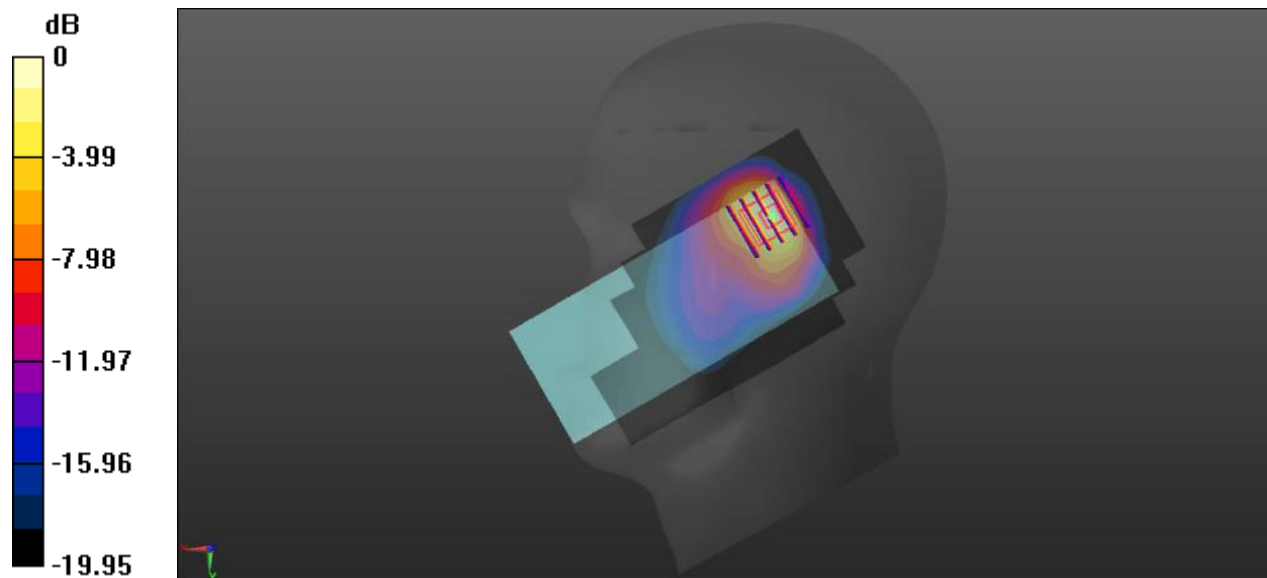
**Ch19100/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.65 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 2.03 W/kg

**SAR(1 g) = 0.966 W/kg; SAR(10 g) = 0.448 W/kg**

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



0 dB = 1.17 W/kg

**Meas.19 Body Plane with Back Side 15mm on Middle Channel in LTE Band2 mode with Antenna 0**

Date: 2021.11.13

Communication System Band: Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.437$  S/m;  $\epsilon_r = 40.027$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.7

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.57, 8.57, 8.57); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch18900/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.179 W/kg

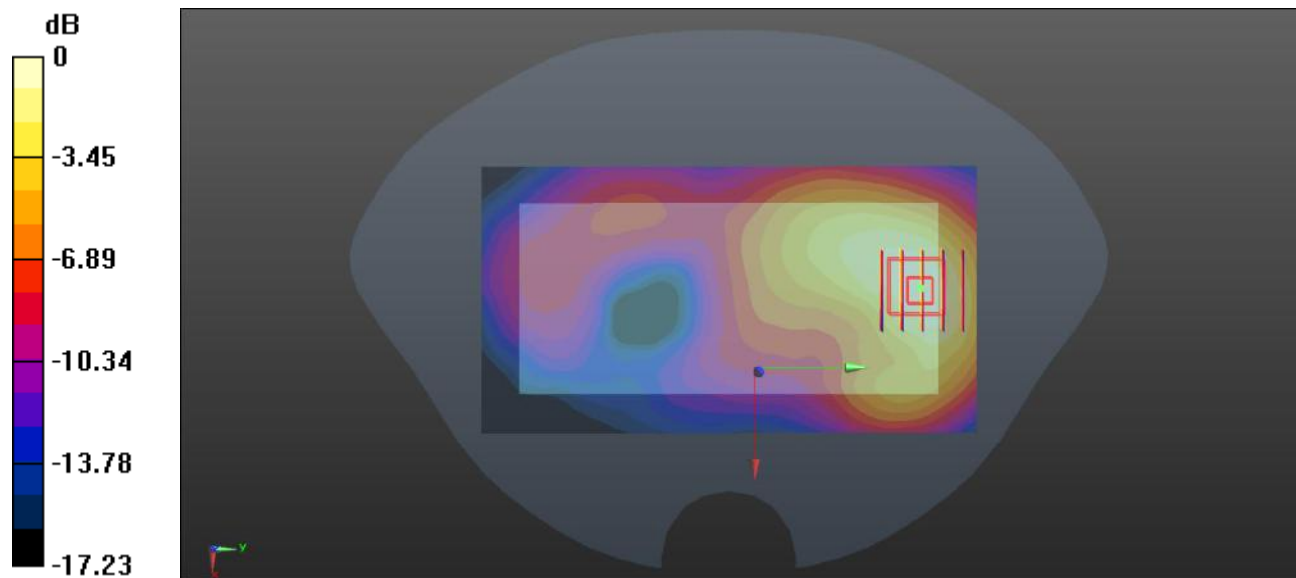
**Ch18900/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.514 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.262 W/kg

**SAR(1 g) = 0.175 W/kg; SAR(10 g) = 0.105 W/kg**

Maximum value of SAR (measured) = 0.184 W/kg



0 dB = 0.184 W/kg

**Meas.20 Body Plane with Bottom Edge 10mm on Middle Channel in LTE Band2 mode with Antenna 0**

Date: 2021.11.13

Communication System Band: Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz); Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.437$  S/m;  $\epsilon_r = 40.027$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.7

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.57, 8.57, 8.57); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch18900/Area Scan (51x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.553 W/kg

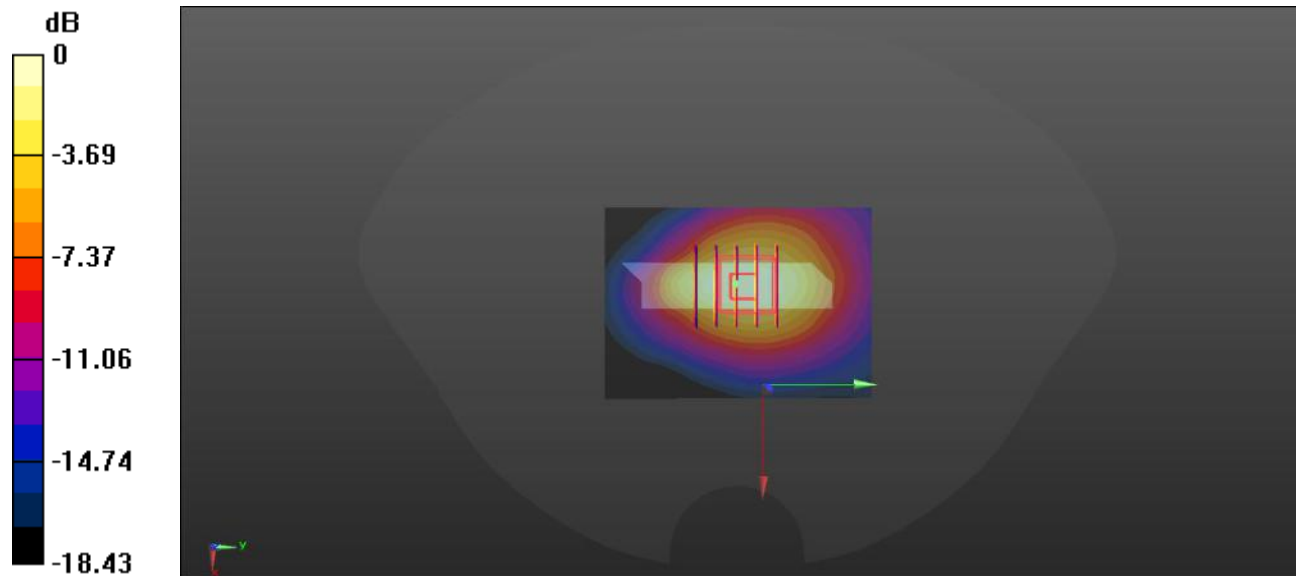
**Ch18900/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.94 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.773 W/kg

**SAR(1 g) = 0.460 W/kg; SAR(10 g) = 0.259 W/kg**

Maximum value of SAR (measured) = 0.502 W/kg



0 dB = 0.502 W/kg



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

Date: 2021.12.11

Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1745 \text{ MHz}$ ;  $\sigma = 1.351 \text{ S/m}$ ;  $\epsilon_r = 39.489$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Ambient Temperature:22.6 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch20300/Area Scan (71x131x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

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

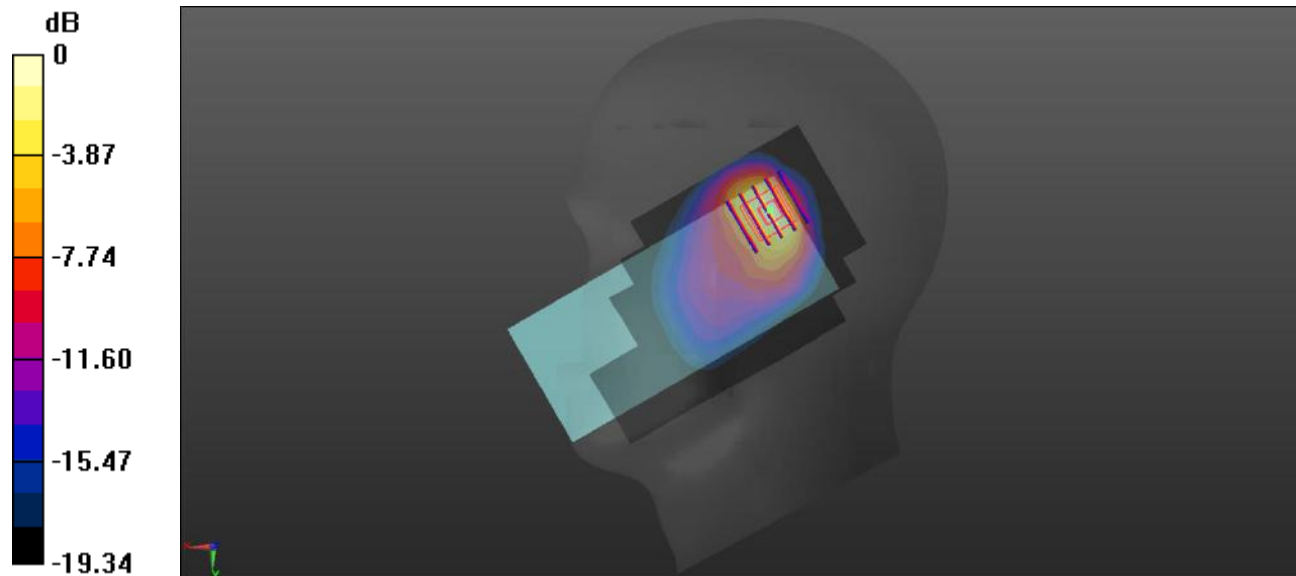
**Ch20300/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 18.51 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 2.13 W/kg

**SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.478 W/kg**

Maximum value of SAR (measured) = 1.23 W/kg



0 dB = 1.23 W/kg = 0.90 dBW/kg

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

Date: 2021.12.11

Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1745$  MHz;  $\sigma = 1.351$  S/m;  $\epsilon_r = 39.489$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.172 W/kg

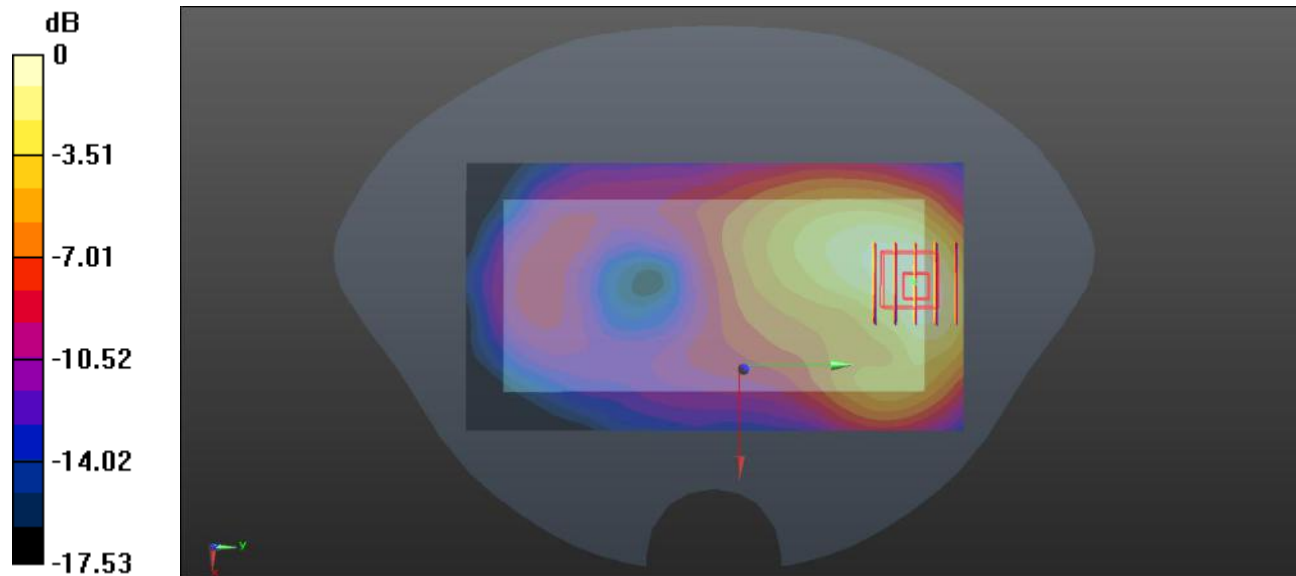
**Ch20300/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.288 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.238 W/kg

**SAR(1 g) = 0.157 W/kg; SAR(10 g) = 0.098 W/kg**

Maximum value of SAR (measured) = 0.170 W/kg



0 dB = 0.170 W/kg

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

Date: 2021.12.11

Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1745$  MHz;  $\sigma = 1.351$  S/m;  $\epsilon_r = 39.489$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch20300/Area Scan (51x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

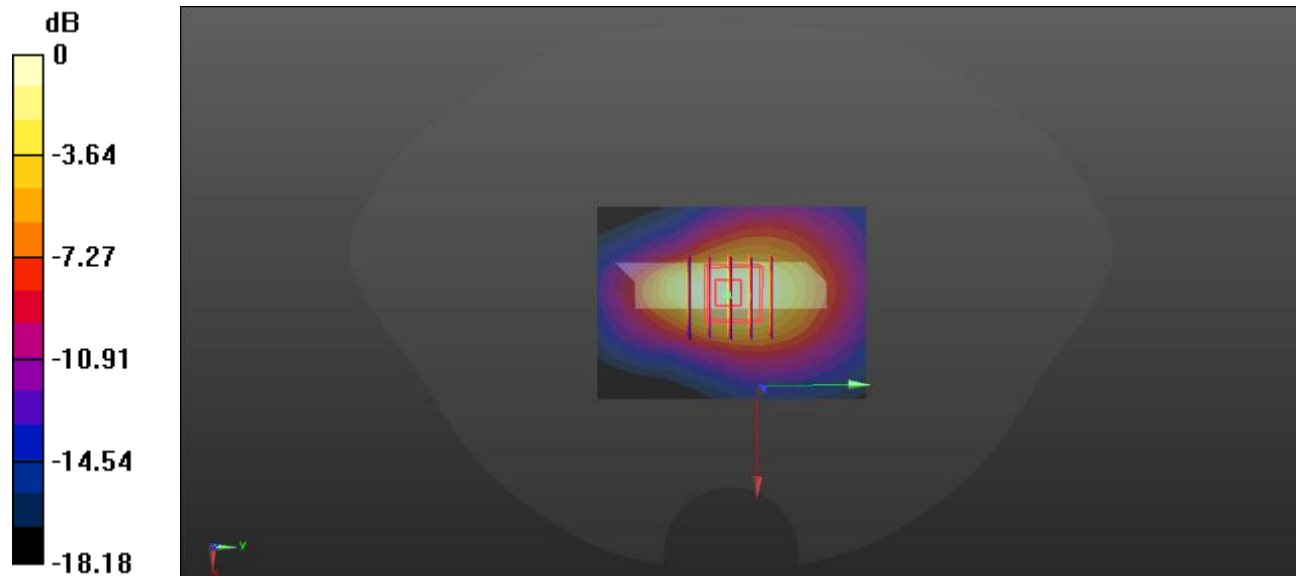
**Ch20300/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.32 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.891 W/kg

**SAR(1 g) = 0.535 W/kg; SAR(10 g) = 0.297 W/kg**

Maximum value of SAR (measured) = 0.598 W/kg



0 dB = 0.598 W/kg

**Meas.24 Right Head with Cheek on Low Channel in LTE Badn5 mode with Antenna 1**

Date: 2021.12.13

Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 829$  MHz;  $\sigma = 0.897$  S/m;  $\epsilon_r = 42.694$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature:22.6 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch20450/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.873 W/kg

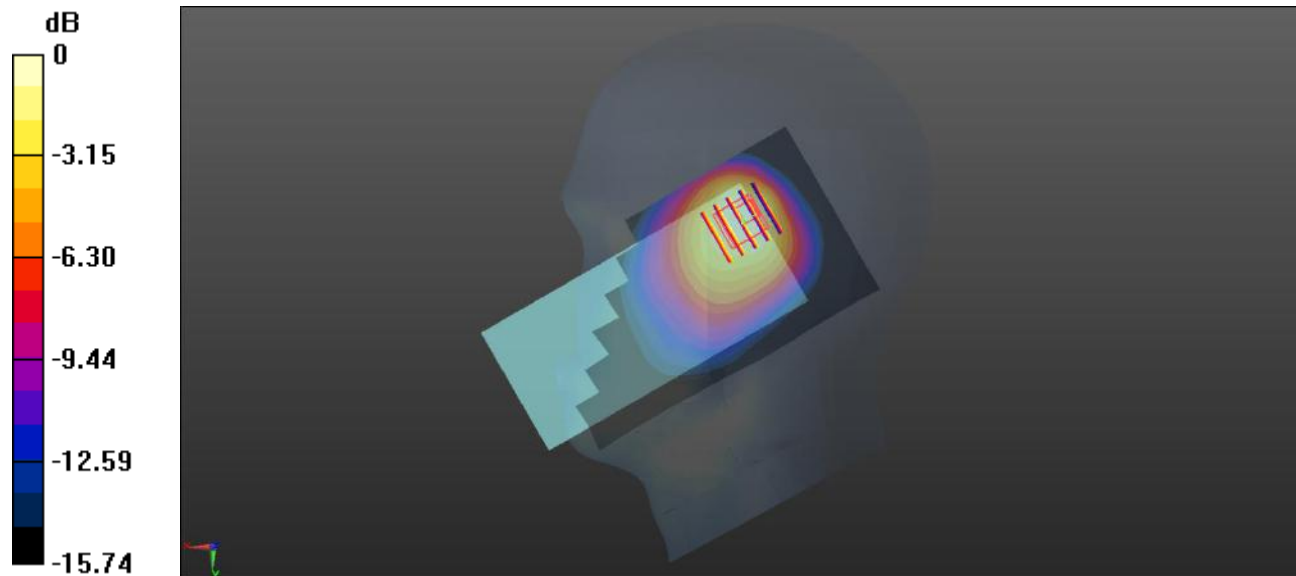
**Ch20450/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.94 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.60 W/kg

**SAR(1 g) = 0.821 W/kg; SAR(10 g) = 0.496 W/kg**

Maximum value of SAR (measured) = 0.847 W/kg



0 dB = 0.847 W/kg

**Meas.25 Body Plane with Back Side 15mm on Low Channel in LTE Band 5 mode with Antenna 1**

Date: 2021.12.13

Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 829$  MHz;  $\sigma = 0.897$  S/m;  $\epsilon_r = 42.694$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch20450/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

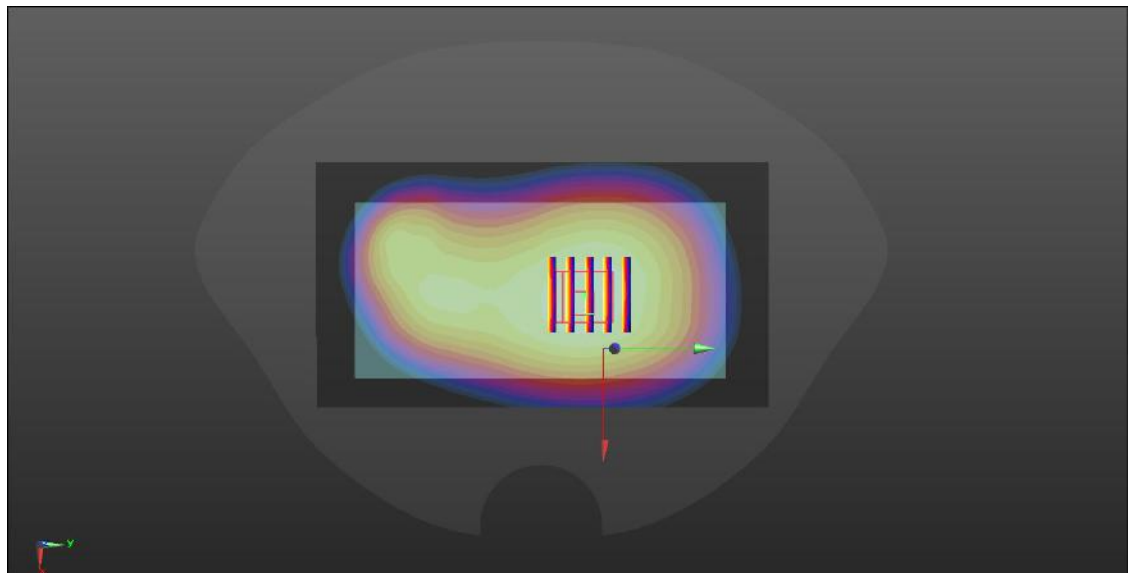
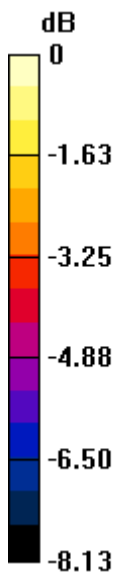
**Ch20450/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.43 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.170 W/kg

**SAR(1 g) = 0.135 W/kg; SAR(10 g) = 0.102 W/kg**

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



0 dB = 0.144 W/kg

**Meas.26 Body Plane with Back Side 10mm on Low Channel in LTE Band 5 mode with Antenna 1**

Date: 2021.12.13

Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 829$  MHz;  $\sigma = 0.897$  S/m;  $\epsilon_r = 42.694$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch20450/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.179 W/kg

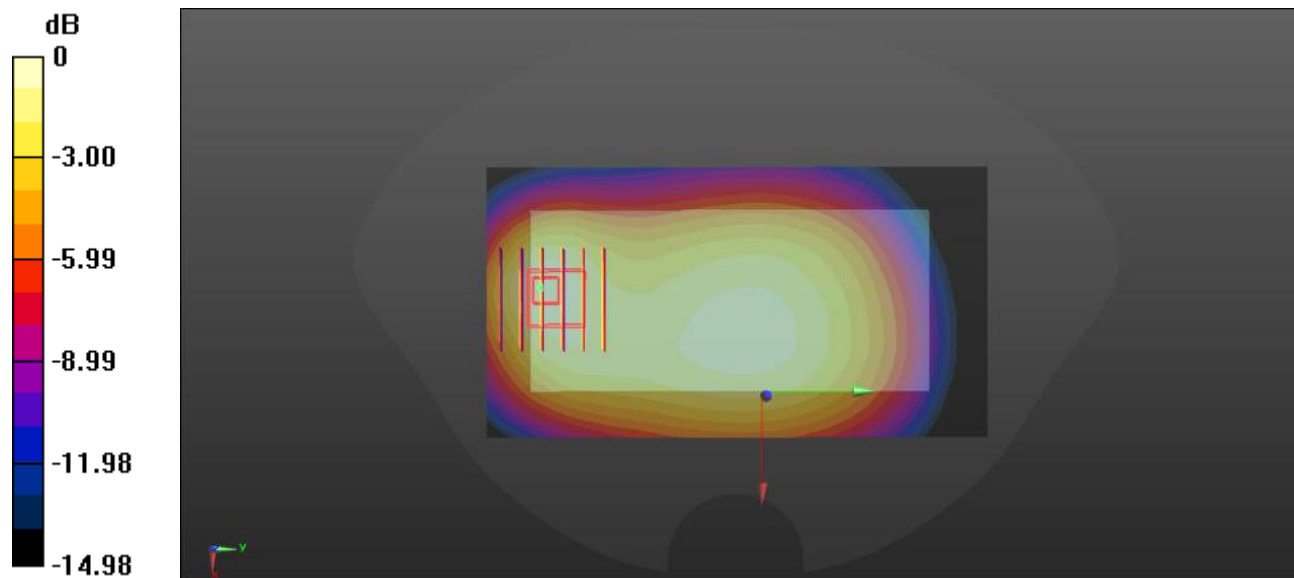
**Ch20450/Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.66 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.267 W/kg

**SAR(1 g) = 0.164 W/kg; SAR(10 g) = 0.104 W/kg**

Maximum value of SAR (measured) = 0.177 W/kg



0 dB = 0.177 W/kg

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

Date: 2021.11.14

Communication System: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2535$  MHz;  $\sigma = 1.836$  S/m;  $\epsilon_r = 39.944$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature: 22.3 Liquid Temperature: 21.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); 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) = 0.778 W/kg

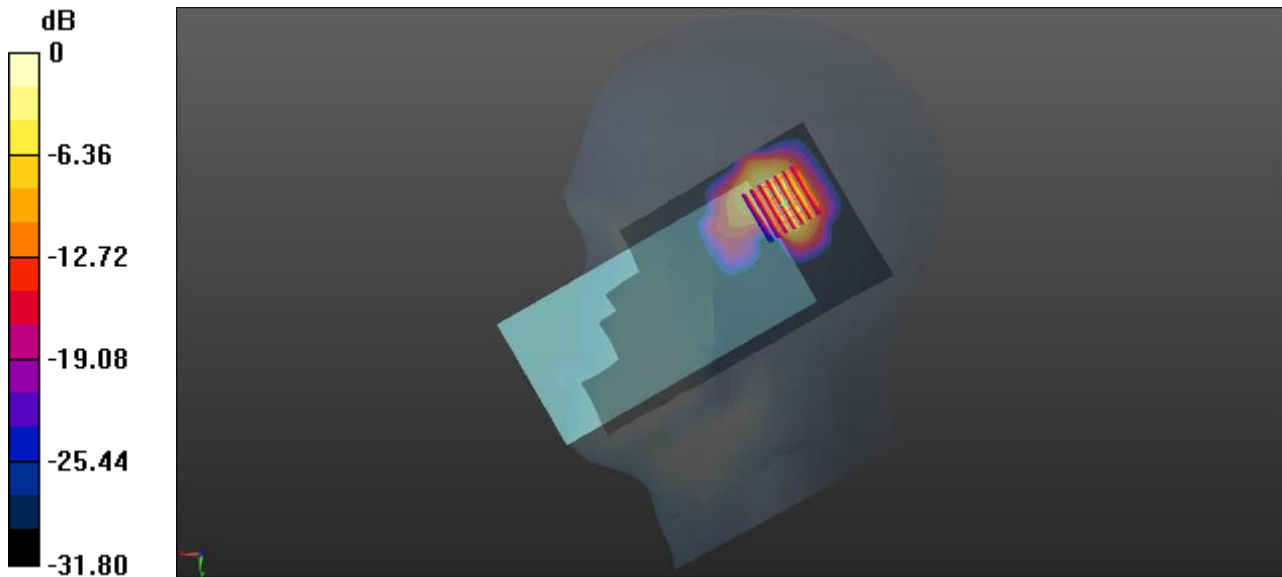
**Ch21100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.424 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.76 W/kg

**SAR(1 g) = 0.662 W/kg; SAR(10 g) = 0.244 W/kg**

Maximum value of SAR (measured) = 0.803 W/kg



0 dB = 0.803 W/kg

**Meas.28 Body Plane with Back Side 15mm on Middle Channel in LTE Band7 mode with Antenna 1**

Date: 2021.11.14

Communication System: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2510$  MHz;  $\sigma = 1.808$  S/m;  $\epsilon_r = 40.104$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); 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) = 0.209 W/kg

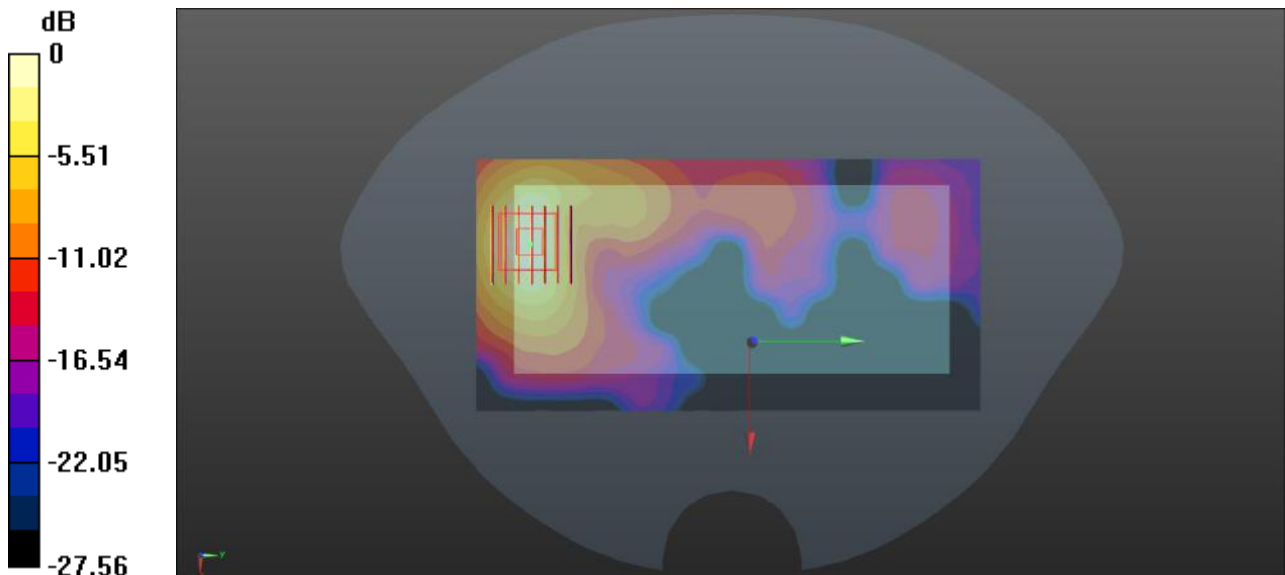
**Ch21100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.345 W/kg

**SAR(1 g) = 0.179 W/kg; SAR(10 g) = 0.086 W/kg**

Maximum value of SAR (measured) = 0.203 W/kg



0 dB = 0.203 W/kg



**Meas.29 Body Plane with Top Edge 10mm on Middle Channel in LTE Band7 mode with Antenna 1**

Date: 2021.11.14

Communication System: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2535$  MHz;  $\sigma = 1.836$  S/m;  $\epsilon_r = 39.944$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.770 W/kg

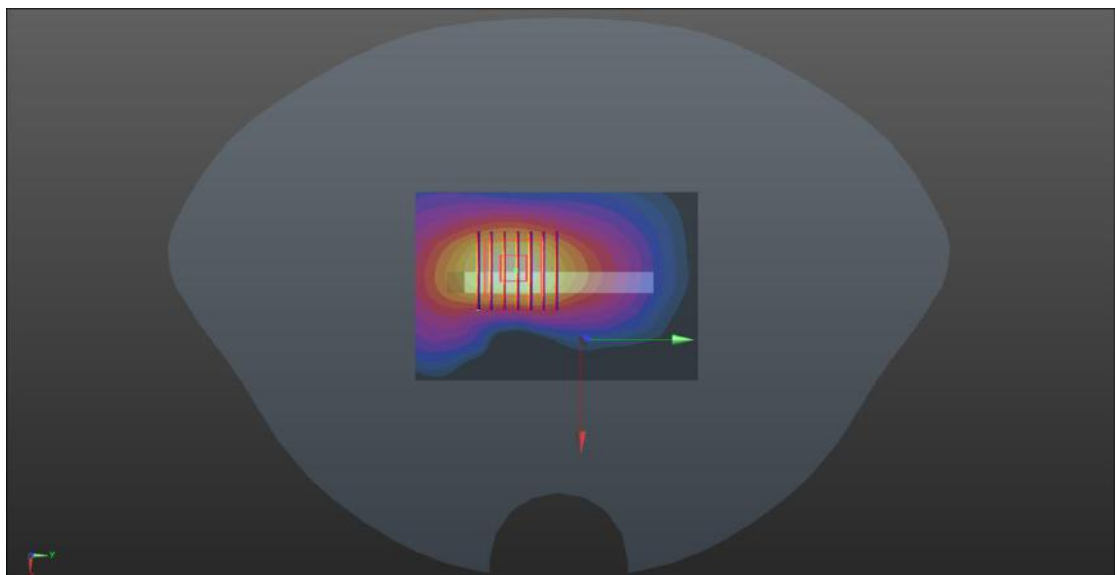
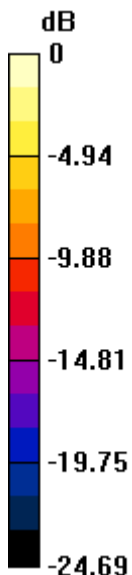
**Ch21100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.281 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.27 W/kg

**SAR(1 g) = 0.592 W/kg; SAR(10 g) = 0.250 W/kg**

Maximum value of SAR (measured) = 0.692 W/kg



0 dB = 0.692 W/kg

**Meas.30 Body Plane with Top Edge 0mm on Middle Channel in LTE B7 mode with Antenna 1**

Date: 2021.11.14

Communication System: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2535 \text{ MHz}$ ;  $\sigma = 1.836 \text{ S/m}$ ;  $\epsilon_r = 39.944$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch21100/Area Scan (61x91x1):** Interpolated grid:  $dx=1.200 \text{ mm}$ ,  $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 4.72 W/kg

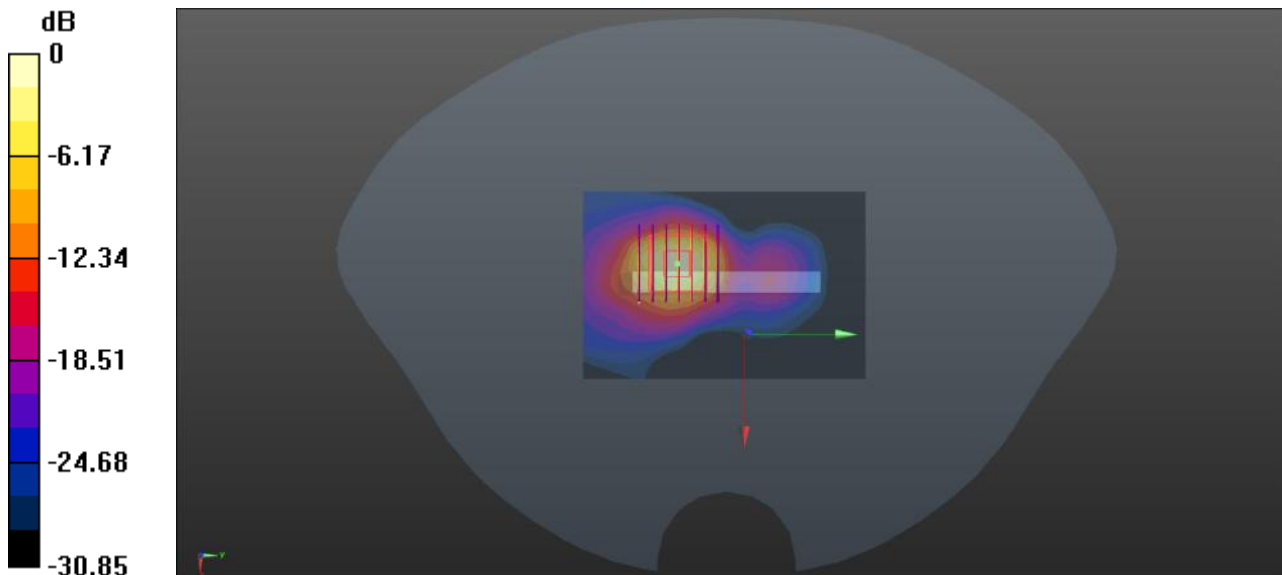
**Ch21100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 2.572 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 13.0 W/kg

**SAR(1 g) = 4.07 W/kg; SAR(10 g) = 1.3 W/kg**

Maximum value of SAR (measured) = 5.19 W/kg



0 dB = 5.19 W/kg

**Meas.31 Right Head with Cheek on Low Channel in LTE B12 mode with Antenna 1**

Date: 2021.11.15

Communication System: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 704 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 704 \text{ MHz}$ ;  $\sigma = 0.893 \text{ S/m}$ ;  $\epsilon_r = 42.938$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Ambient Temperature:22.3 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.41, 10.41, 10.41); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch23060/Area Scan (71x131x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.448 W/kg

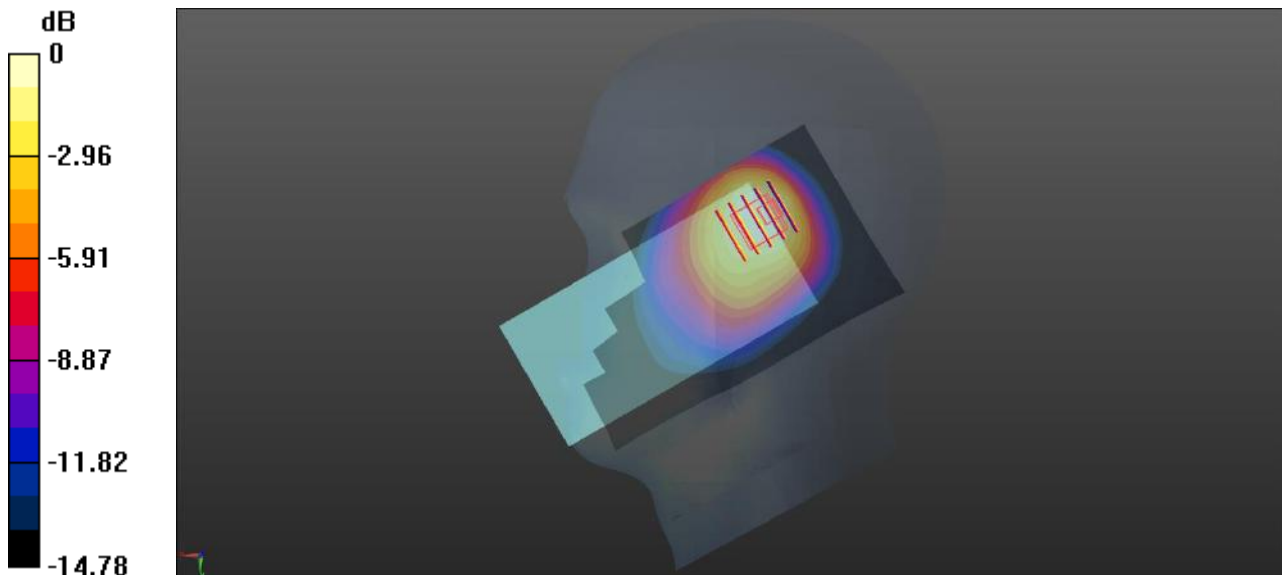
**Ch23060/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 18.95 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.770 W/kg

**SAR(1 g) = 0.409 W/kg; SAR(10 g) = 0.254 W/kg**

Maximum value of SAR (measured) = 0.442 W/kg



0 dB = 0.442 W/kg

**Meas.32 Body Plane with Back Side 15mm on Low Channel in LTE Band 12 mode with Antenna 1**

Date: 2021.11.15

Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 704 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 704$  MHz;  $\sigma = 0.893$  S/m;  $\epsilon_r = 42.938$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.41, 10.41, 10.41); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch23060/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.143 W/kg

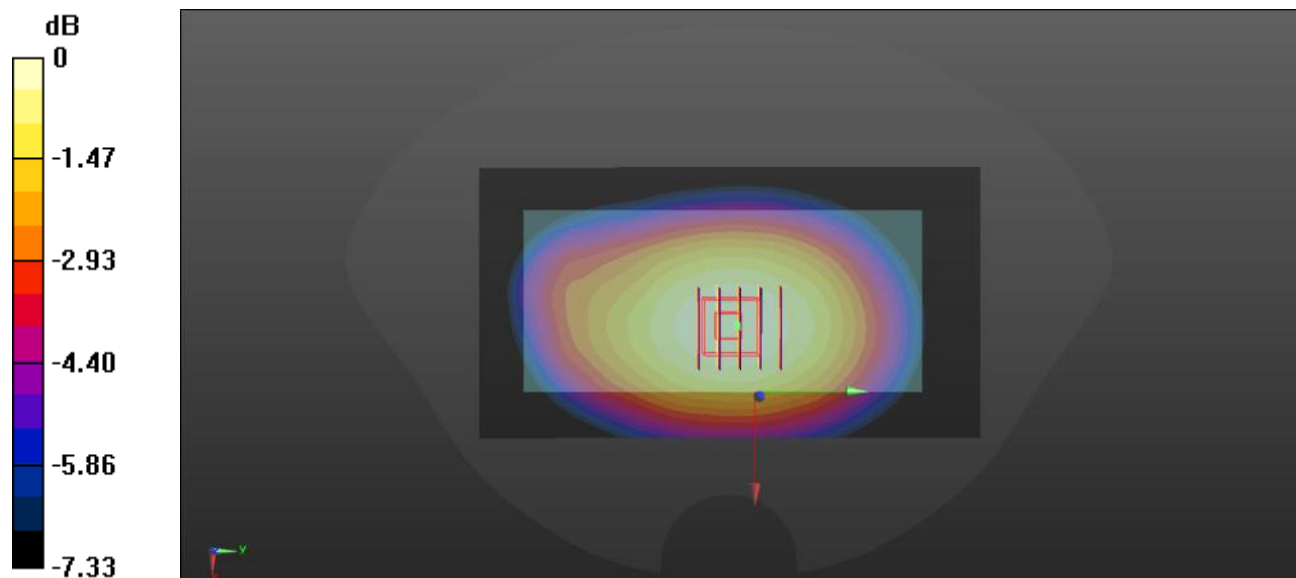
**Ch23060/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.57 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.168 W/kg

**SAR(1 g) = 0.136 W/kg; SAR(10 g) = 0.105 W/kg**

Maximum value of SAR (measured) = 0.143 W/kg



0 dB = 0.143 W/kg

**Meas.33 Body Plane with Back Side 10mm on Low Channel in LTE Band 12 mode with Antenna 0**

Date: 2021.11.15

Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 704 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 704$  MHz;  $\sigma = 0.893$  S/m;  $\epsilon_r = 42.938$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.41, 10.41, 10.41); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch23060/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.141 W/kg

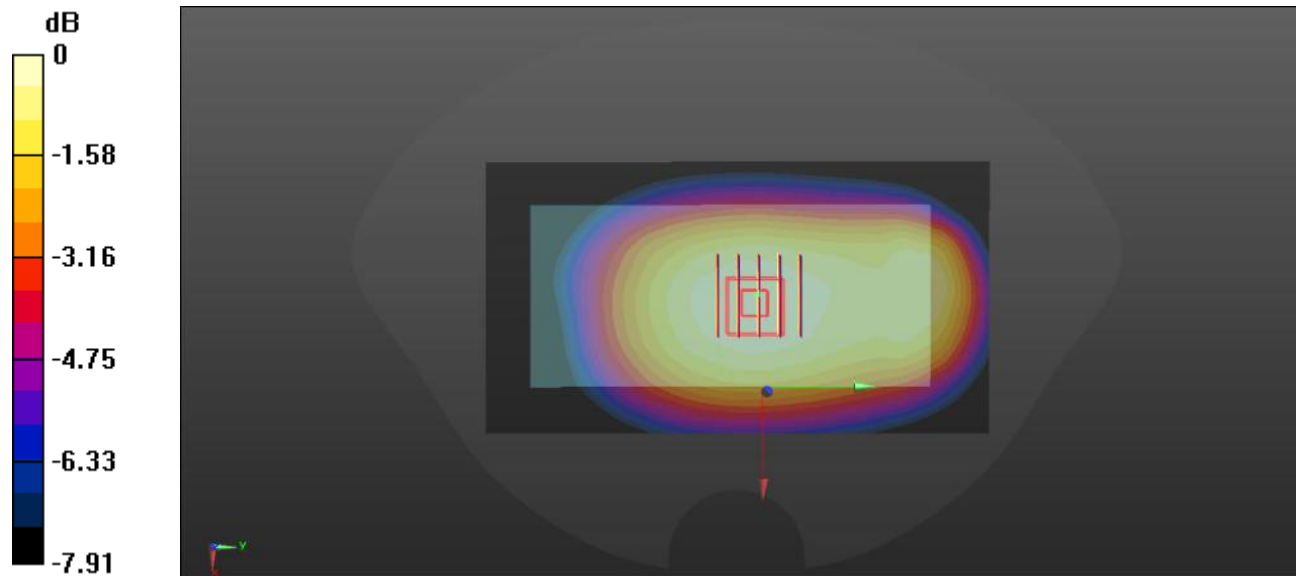
**Ch23060/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.37 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.167 W/kg

**SAR(1 g) = 0.135 W/kg; SAR(10 g) = 0.105 W/kg**

Maximum value of SAR (measured) = 0.141 W/kg



0 dB = 0.141 W/kg

**Meas.34 Right Head with Cheek on Middle Channel in LTE B13 mode with Antenna 1**

Date: 2021.11.15

Communication System Band: Band 13, E-UTRA/FDD (777.0 - 787.0 MHz); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 782$  MHz;  $\sigma = 0.906$  S/m;  $\epsilon_r = 42.553$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature:22.3 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.41, 10.41, 10.41); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); 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) = 0.521 W/kg

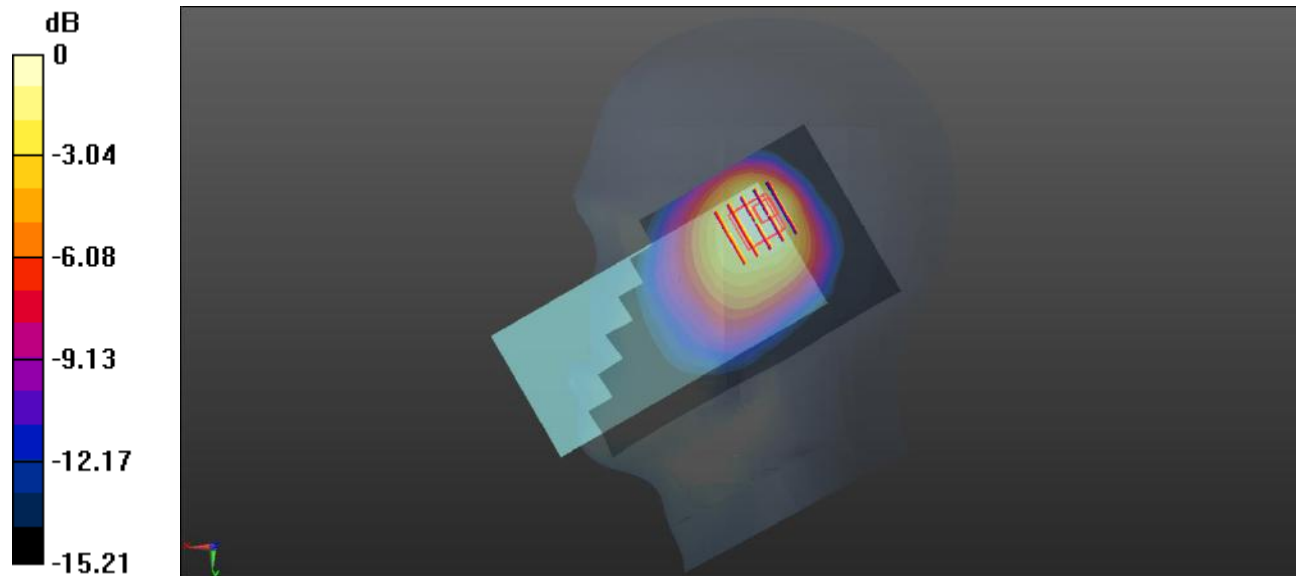
**Ch23230/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.06 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.941 W/kg

**SAR(1 g) = 0.492 W/kg; SAR(10 g) = 0.300 W/kg**

Maximum value of SAR (measured) = 0.519 W/kg



0 dB = 0.519 W/kg = -2.85 dBW/kg

**Meas.35 Body Plane with Back Side 15mm on Middle Channel in LTE Band 13 mode with Antenna 0**

Date: 2021.11.15

Communication System Band: Band 13, E-UTRA/FDD (777.0 - 787.0 MHz); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 782$  MHz;  $\sigma = 0.906$  S/m;  $\epsilon_r = 42.553$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.41, 10.41, 10.41); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); 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) = 0.194 W/kg

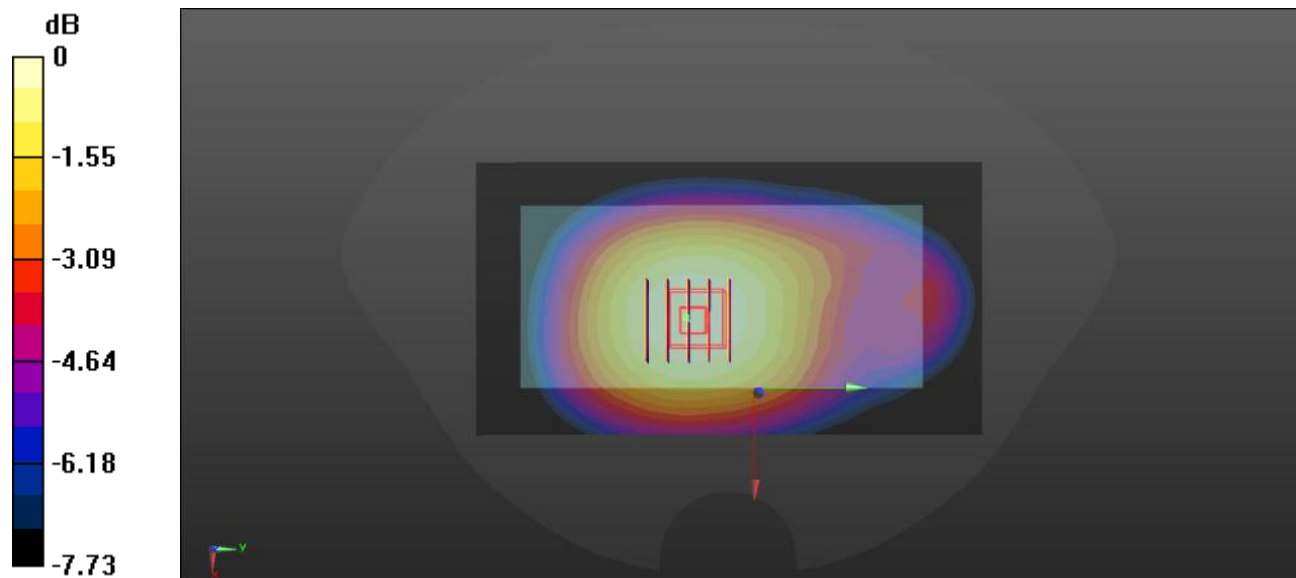
**Ch23230/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.13 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.230 W/kg

**SAR(1 g) = 0.187 W/kg; SAR(10 g) = 0.144 W/kg**

Maximum value of SAR (measured) = 0.195 W/kg



0 dB = 0.195 W/kg

**Meas.36 Body Plane with Back Side 10mm on Middle Channel in LTE Band 13 mode with Antenna 0**

Date: 2021.11.15

Communication System Band: Band 13, E-UTRA/FDD (777.0 - 787.0 MHz); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 782$  MHz;  $\sigma = 0.906$  S/m;  $\epsilon_r = 42.553$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.41, 10.41, 10.41); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

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

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

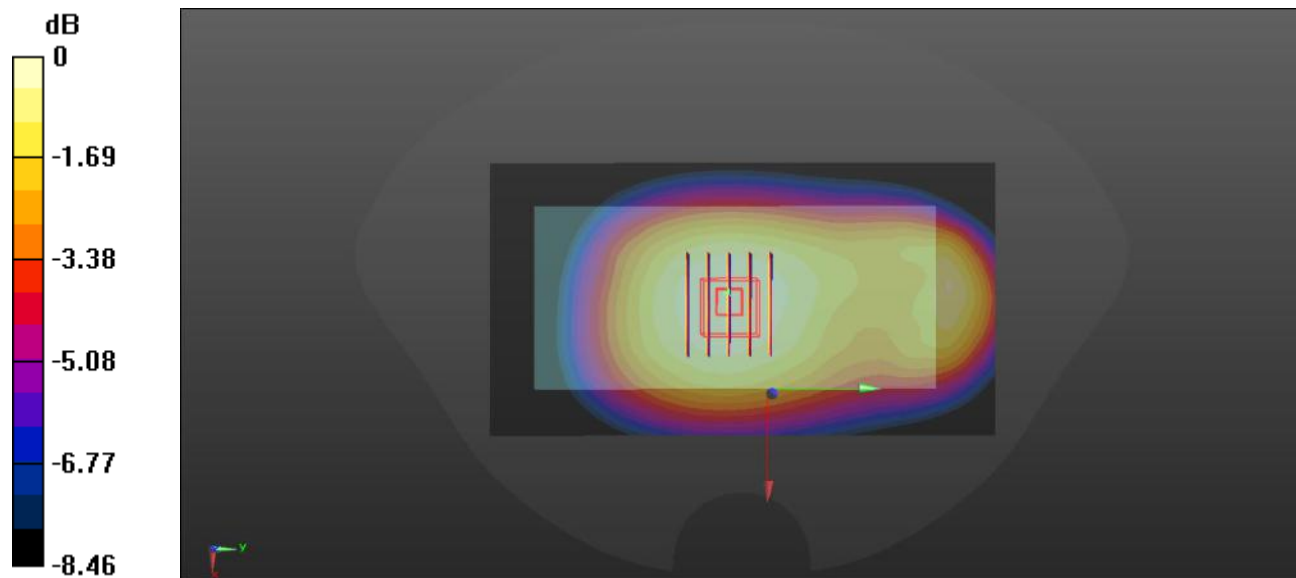
**Ch23230/Zoom Scan (6x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.76 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.242 W/kg

**SAR(1 g) = 0.194 W/kg; SAR(10 g) = 0.150 W/kg**

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



0 dB = 0.202 W/kg



**Meas.37 Right Head with Cheek on Low Channel in LTE Band17 mode with Antenna 1**

Date: 2021.11.16

Communication System: Band 17, E-UTRA/FDD (704.0 - 716.0 MHz); Frequency: 709 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 709$  MHz;  $\sigma = 0.901$  S/m;  $\epsilon_r = 42.425$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature:22.5 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.41, 10.41, 10.41); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.628 W/kg

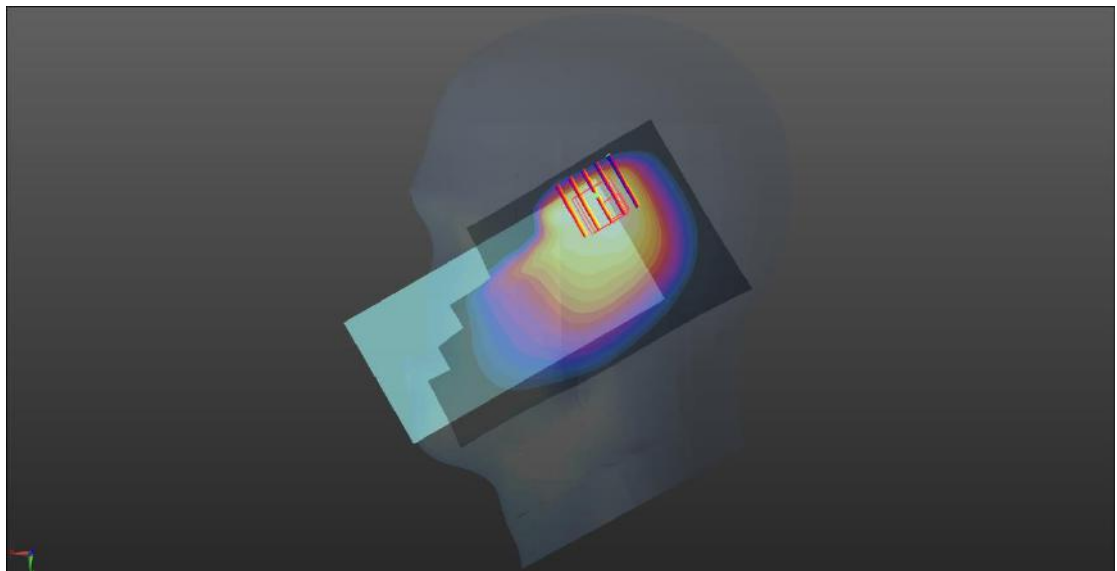
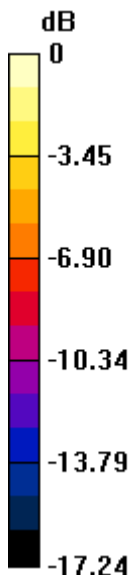
**Ch23780/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.55 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.852 W/kg

**SAR(1 g) = 0.436 W/kg; SAR(10 g) = 0.255 W/kg**

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



0 dB = 0.464 W/kg

**Meas.38 Body Plane with Back Side 15mm on Low Channel in LTE Band 17 mode with Antenna 1**

Date: 2021.11.16

Communication System Band: Band 17, E-UTRA/FDD (704.0 - 716.0 MHz); Frequency: 709 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 709$  MHz;  $\sigma = 0.901$  S/m;  $\epsilon_r = 42.425$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.41, 10.41, 10.41); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

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

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

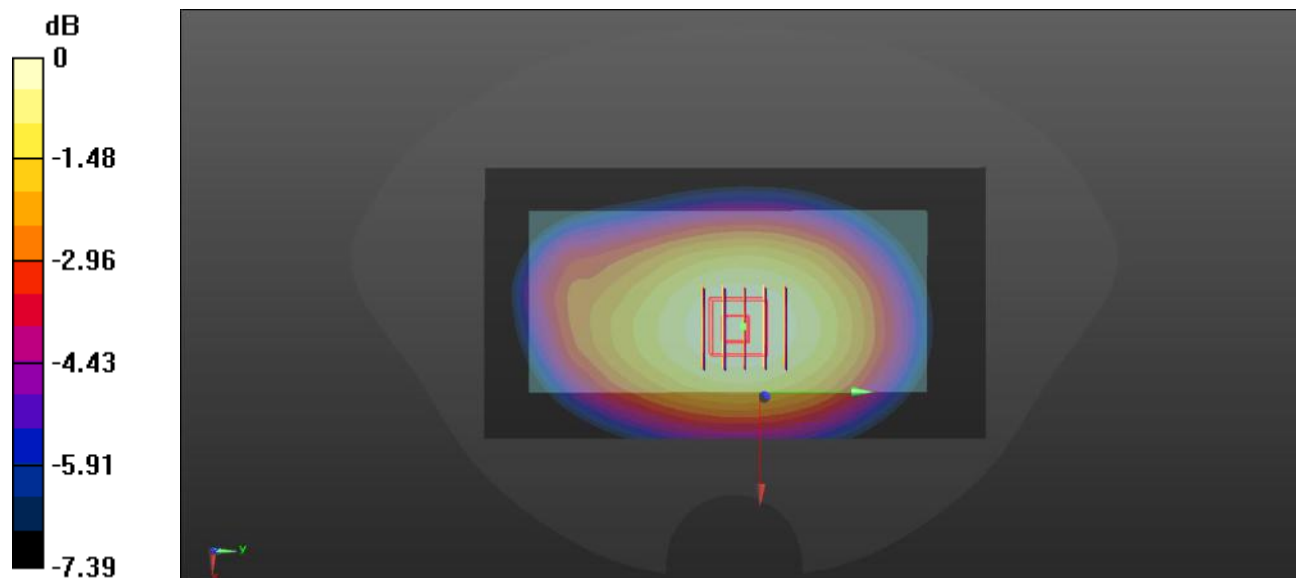
**Ch23780/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.17 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.168 W/kg

**SAR(1 g) = 0.135 W/kg; SAR(10 g) = 0.104 W/kg**

Maximum value of SAR (measured) = 0.141 W/kg



0 dB = 0.141 W/kg

**Meas.39 Body Plane with Back Side 10mm on Low Channel in LTE Band 17 mode with Antenna 0**

Date: 2021.11.16

Communication System Band: Band 17, E-UTRA/FDD (704.0 - 716.0 MHz); Frequency: 709 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 709$  MHz;  $\sigma = 0.901$  S/m;  $\epsilon_r = 42.425$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.41, 10.41, 10.41); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.146 W/kg

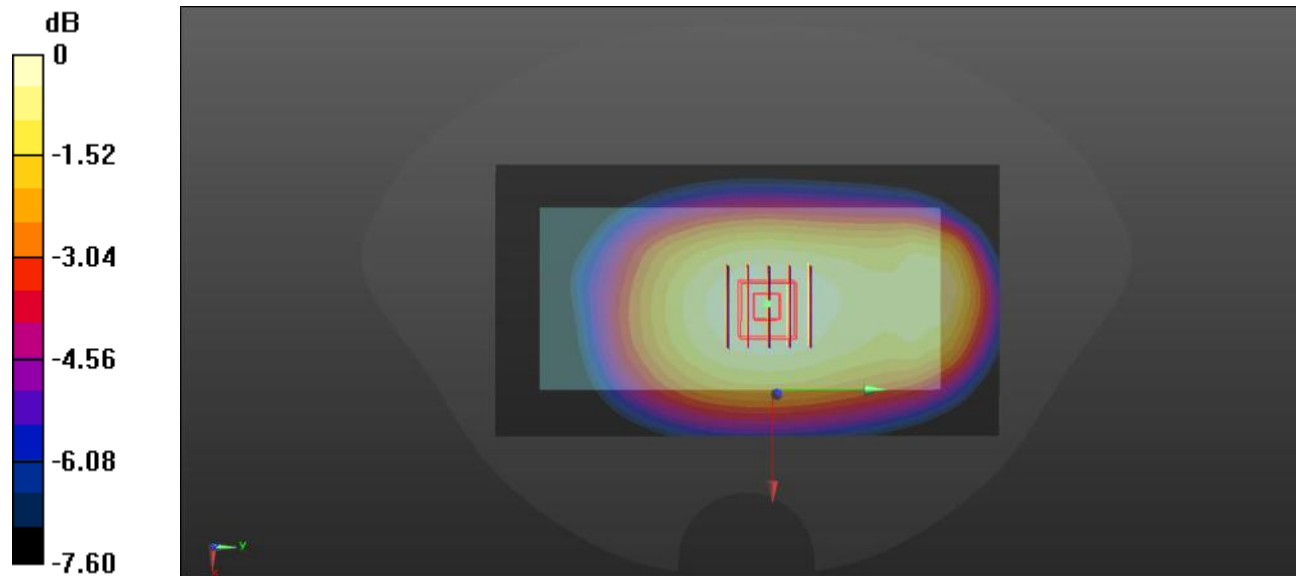
**Ch23780/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.64 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.172 W/kg

**SAR(1 g) = 0.140 W/kg; SAR(10 g) = 0.109 W/kg**

Maximum value of SAR (measured) = 0.146 W/kg



0 dB = 0.146 W/kg

**Meas.40 Right Head with Cheek on Low Channel in LTE Band26 mode with Antenna 1**

Date: 2021.11.09

Communication System Band: Band26; Frequency: 821.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 821.5$  MHz;  $\sigma = 0.885$  S/m;  $\epsilon_r = 41.996$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature:22.7 Liquid Temperature:21.9

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch26765/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

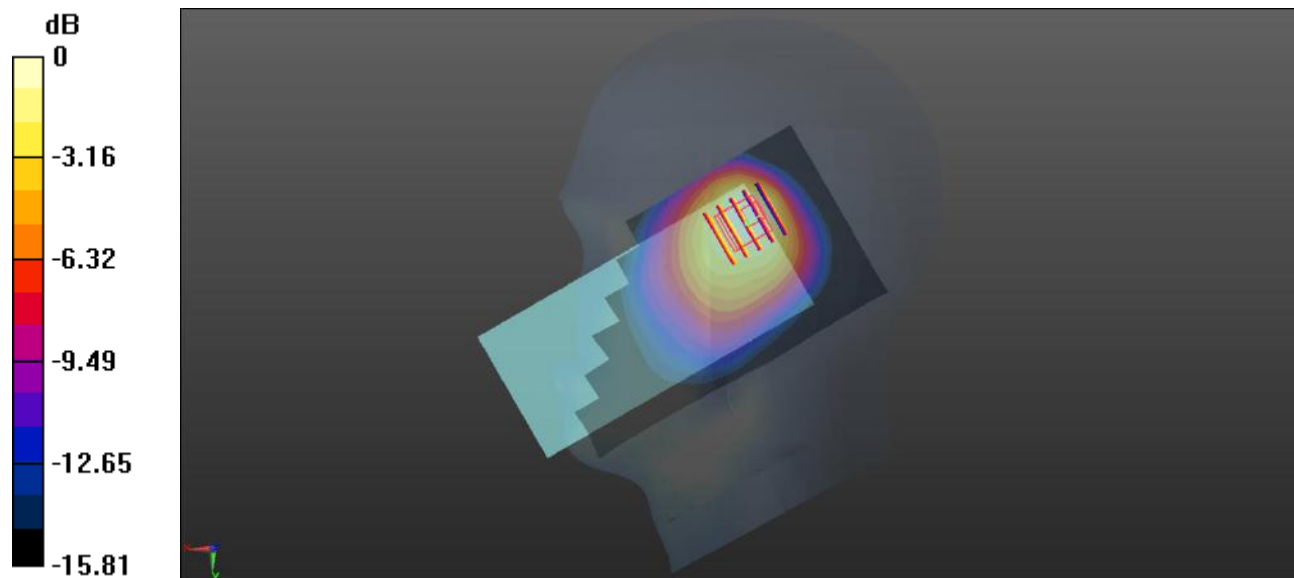
**Ch26765/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.18 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.23 W/kg

**SAR(1 g) = 0.635 W/kg; SAR(10 g) = 0.386 W/kg**

Maximum value of SAR (measured) = 0.660 W/kg



0 dB = 0.660 W/kg

**Meas.41 Body Plane with Back Side 15mm on Middle Channel in LTE Band 26 with Antenna 1**

Date: 2021.11.09

Communication System Band: Band26; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 831.5$  MHz;  $\sigma = 0.889$  S/m;  $\epsilon_r = 41.883$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.9

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); 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) = 0.148 W/kg

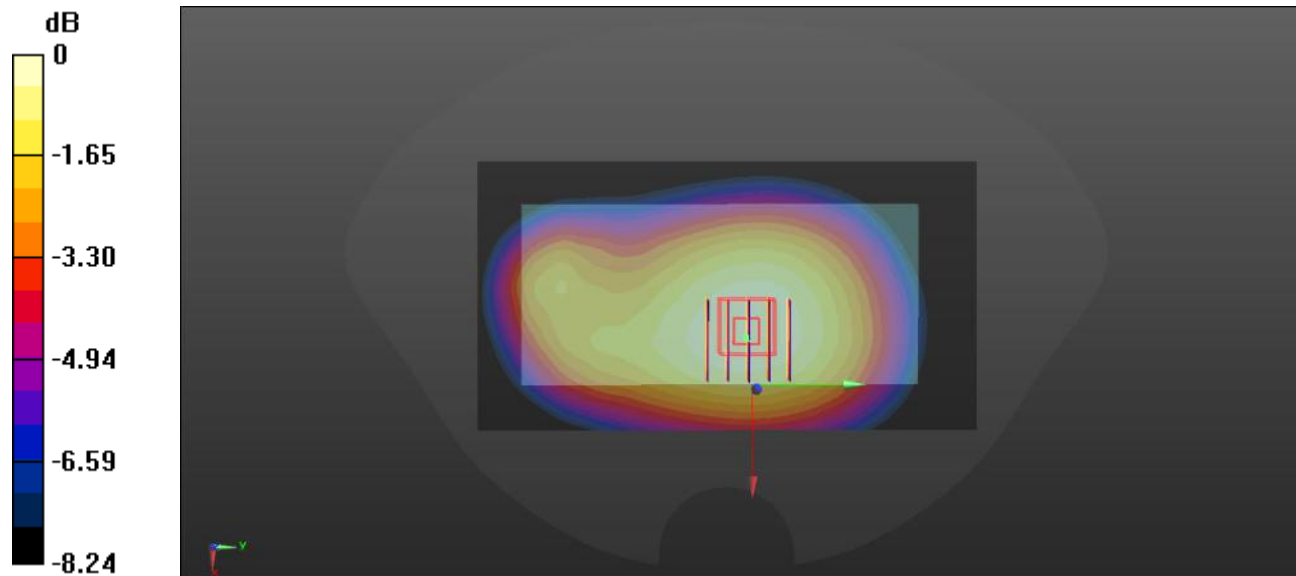
**Ch26865/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.06 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.176 W/kg

**SAR(1 g) = 0.141 W/kg; SAR(10 g) = 0.107 W/kg**

Maximum value of SAR (measured) = 0.147 W/kg



0 dB = 0.147 W/kg = -8.33 dBW/kg

**Meas.42 Body Plane with Back Side 10mm on Middle Channel in LTE Band 26 with Antenna 1**

Date: 2021.11.09

Communication System Band: Band26; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 831.5$  MHz;  $\sigma = 0.889$  S/m;  $\epsilon_r = 41.883$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.9

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); 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) = 0.196 W/kg

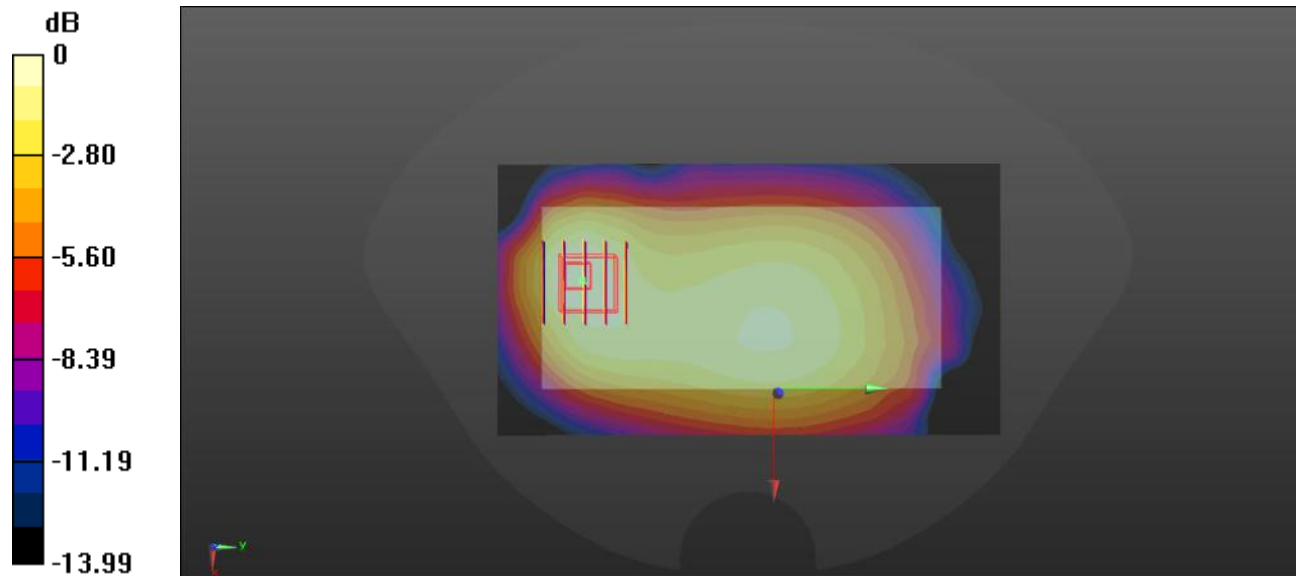
**Ch26865/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.59 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.289 W/kg

**SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.113 W/kg**

Maximum value of SAR (measured) = 0.190 W/kg



0 dB = 0.190 W/kg

**Meas.43 Right Head with Tilt on High Channel in LTE Band 66 mode with Antenna 1**

Date: 2021.11.17

Communication System Band: Band66; Frequency: 1770 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1770$  MHz;  $\sigma = 1.418$  S/m;  $\epsilon_r = 38.64$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature:22.4 Liquid Temperature:21.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.798 W/kg

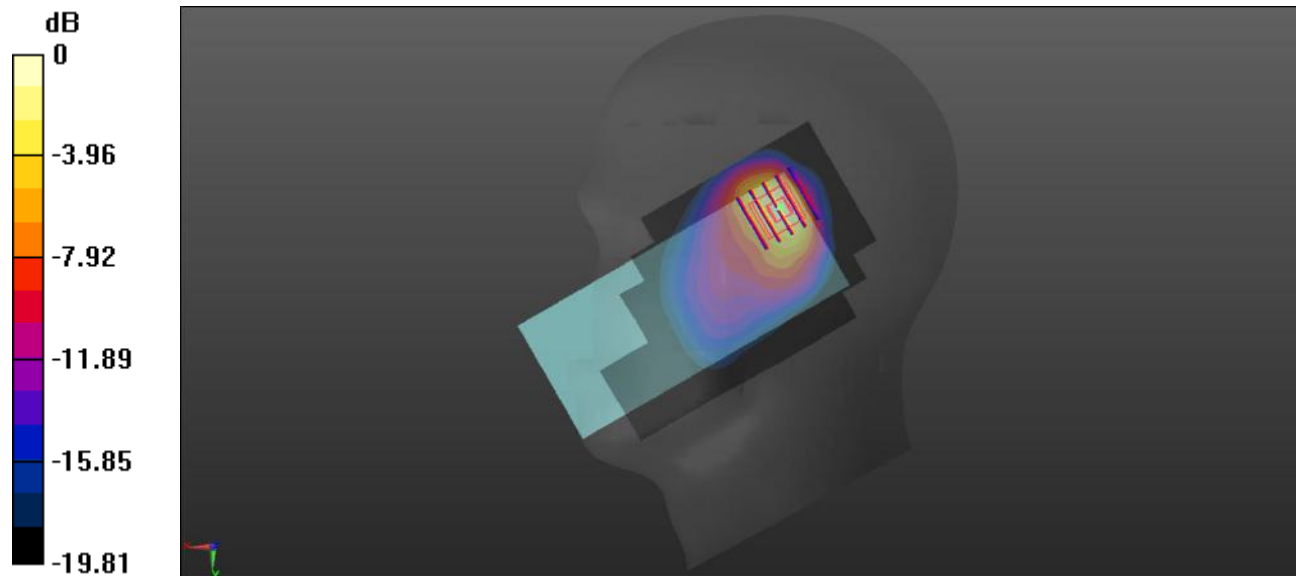
**Ch132572/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.07 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.48 W/kg

**SAR(1 g) = 0.723 W/kg; SAR(10 g) = 0.335 W/kg**

Maximum value of SAR (measured) = 0.856 W/kg



0 dB = 0.856 W/kg

**Meas.44 Body Plane with Back Side 15mm on Middle Channel in LTE B66 with Antenna 1**

Date: 2021.11.17

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

Medium parameters used (interpolated):  $f = 1745$  MHz;  $\sigma = 1.401$  S/m;  $\epsilon_r = 39.99$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.114 W/kg

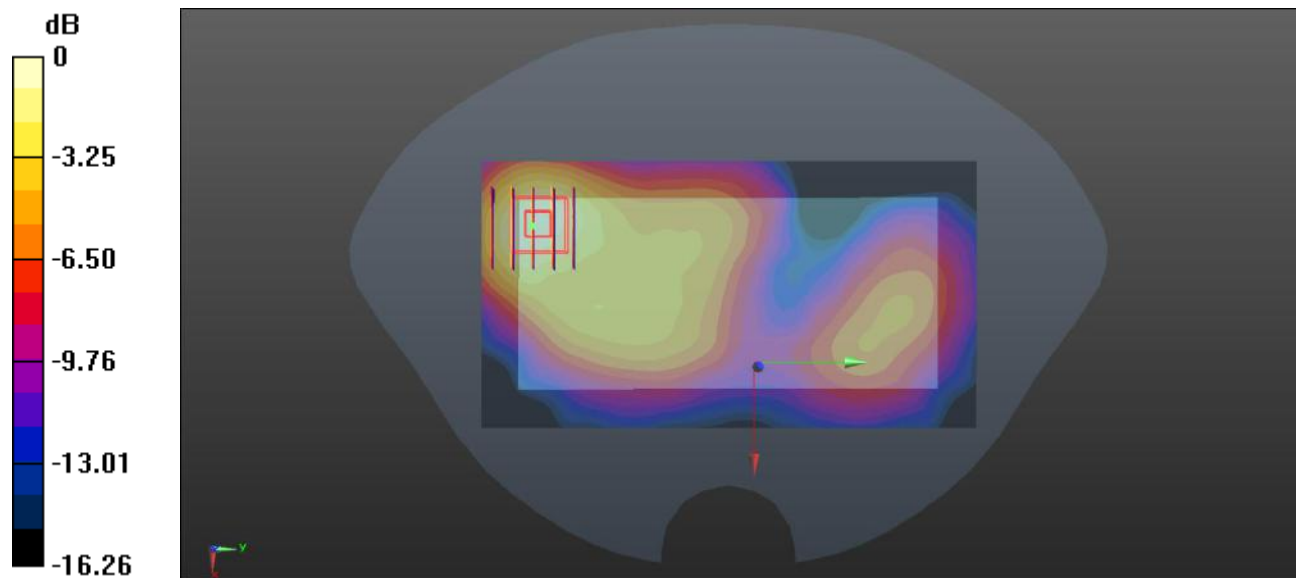
**Ch132322/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.350 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.173 W/kg

**SAR(1 g) = 0.131 W/kg; SAR(10 g) = 0.075 W/kg**

Maximum value of SAR (measured) = 0.115 W/kg



0 dB = 0.115 W/kg = -9.39 dBW/kg



**Meas.45 Body Plane with Top Edge 10mm on Middle Channel in LTE B66 with Antenna 1**

Date: 2021.11.17

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

Medium parameters used (interpolated):  $f = 1745 \text{ MHz}$ ;  $\sigma = 1.401 \text{ S/m}$ ;  $\epsilon_r = 38.99$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71) @ 1745 MHz; Calibrated: 2021/7/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021/7/15
- Phantom: Twin-SAM Right V5.0 (20deg probe tilt); Type: QD 000 P40 CE; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Ch132322/Area Scan (51x71x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.695 W/kg

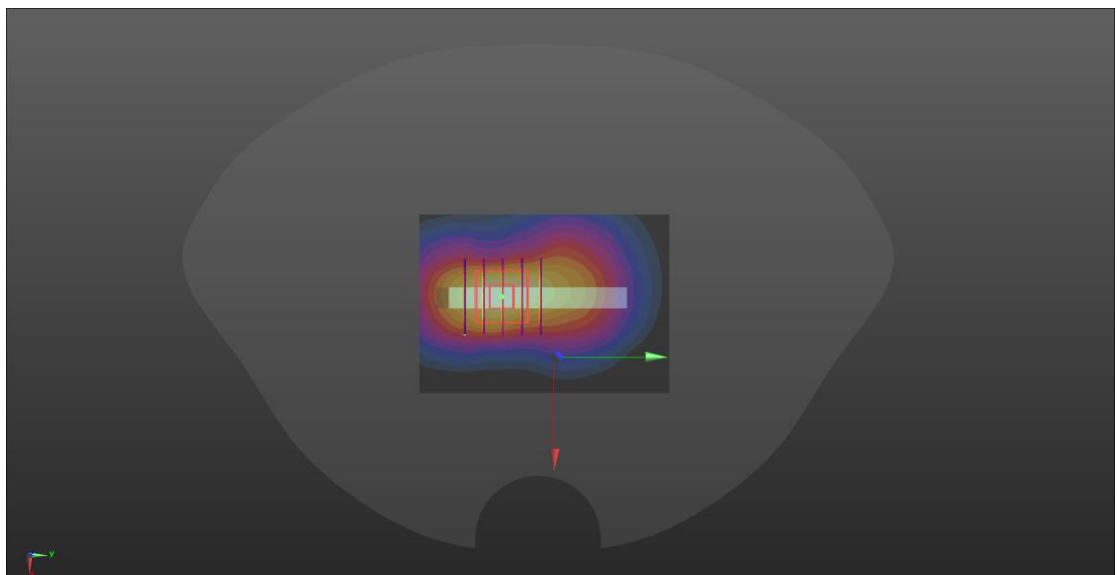
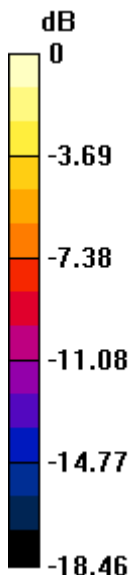
**Ch132322/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 17.70 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.19 W/kg

**SAR(1 g) = 0.531 W/kg; SAR(10 g) = 0.264 W/kg**

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



0 dB = 0.718 W/kg

**Meas.46 Right Head with Tilt on Low Channel in LTE Band 38 mode with Antenna 1**

Date: 2021.11.18

Communication System: Band 38, E-UTRA/TDD (2570.0 - 2620.0 MHz); Frequency: 2580 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated):  $f = 2580$  MHz;  $\sigma = 1.899$  S/m;  $\epsilon_r = 39.197$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature:22.1 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch37850/Area Scan (81x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.794 W/kg

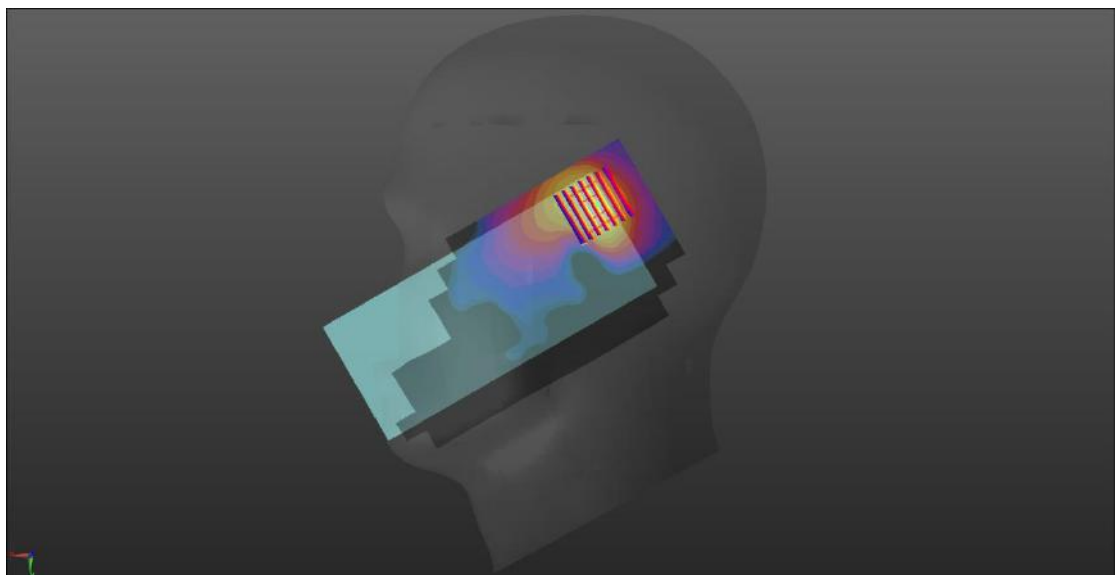
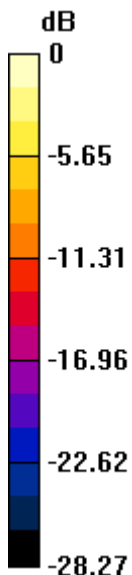
**Ch37850/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.827 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.93 W/kg

**SAR(1 g) = 0.757 W/kg; SAR(10 g) = 0.290 W/kg**

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



0 dB = 0.878 W/kg

**Meas.47 Body Plane with Back Side 15mm on High Channel in LTE B38 mode with Antenna 1**

Date: 2021.11.18

Communication System: Band 38, E-UTRA/TDD (2570.0 - 2620.0 MHz); Frequency: 2610 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated):  $f = 2610$  MHz;  $\sigma = 1.939$  S/m;  $\epsilon_r = 38.69$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.1 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch38150/Area Scan (81x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.215 W/kg

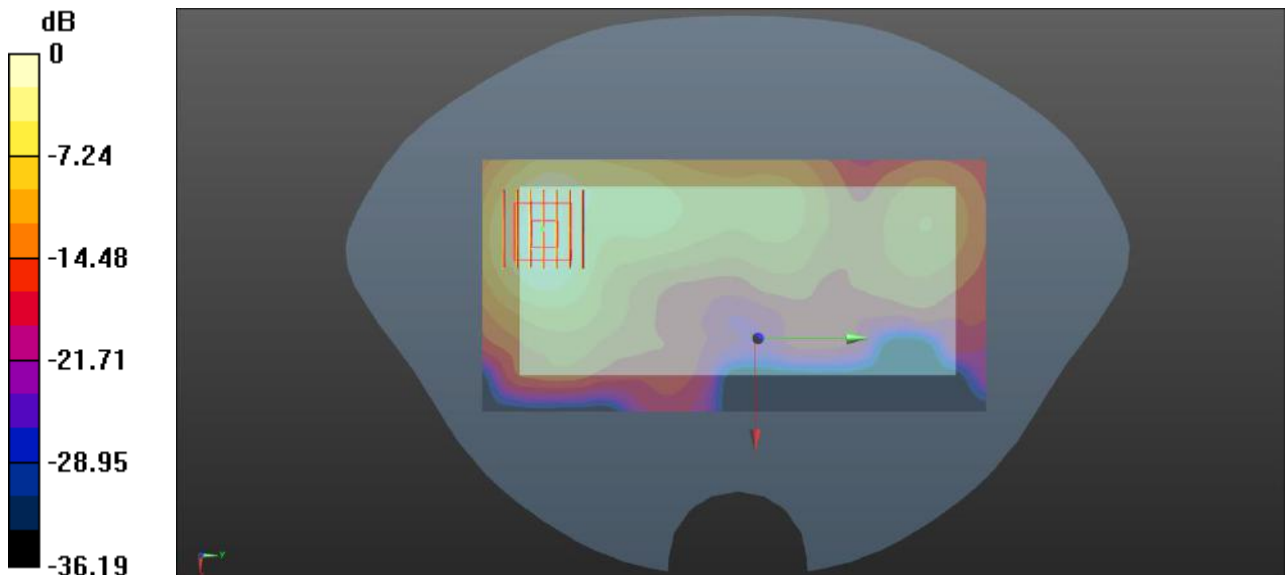
**Ch38150/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.377 W/kg

**SAR(1 g) = 0.189 W/kg; SAR(10 g) = 0.090 W/kg**

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



0 dB = 0.212 W/kg

**Meas.48 Body Plane with Top Edge 10mm on High Channel in LTE Band 38 with Antenna 1**

Date: 2021.11.18

Communication System: Band 38, E-UTRA/TDD (2570.0 - 2620.0 MHz); Frequency: 2610 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated):  $f = 2610$  MHz;  $\sigma = 1.939$  S/m;  $\epsilon_r = 38.69$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.1 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch38150/Area Scan (61x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.536 W/kg

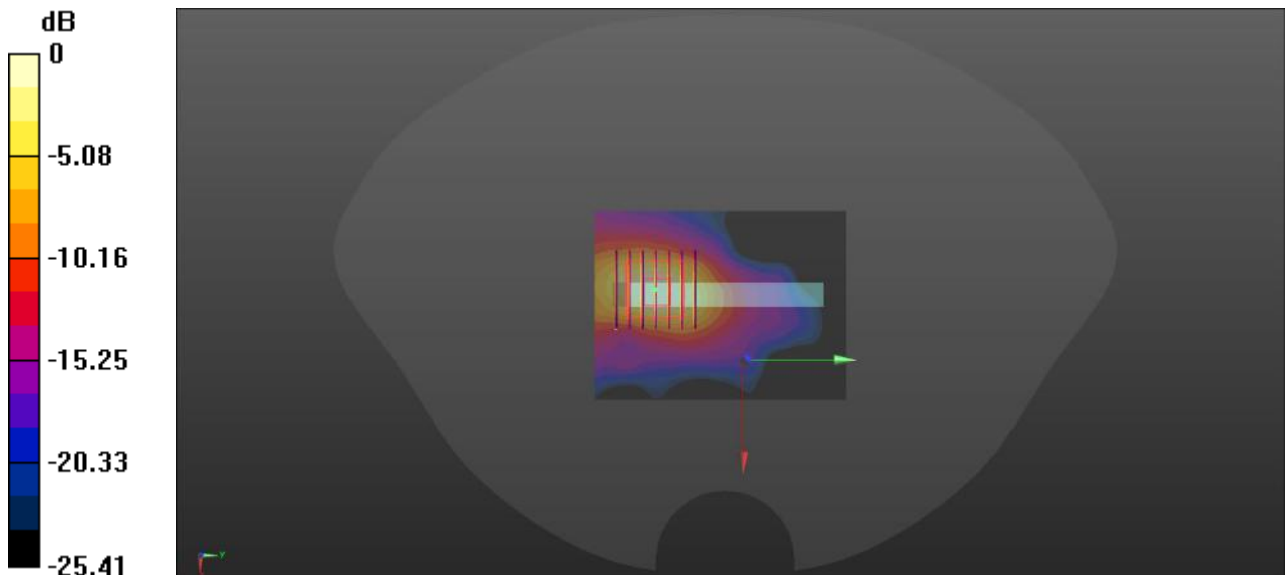
**Ch38150/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.308 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.931 W/kg

**SAR(1 g) = 0.420 W/kg; SAR(10 g) = 0.174 W/kg**

Maximum value of SAR (measured) = 0.497 W/kg



0 dB = 0.497 W/kg

**Meas.49 Body Plane with Back Side 0mm on High Channel in LTE Band 38 with Antenna 1**

Date: 2021.11.18

Communication System Band: Band 38, E-UTRA/TDD (2570.0 - 2620.0 MHz); Frequency: 2610 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated):  $f = 2610$  MHz;  $\sigma = 1.939$  S/m;  $\epsilon_r = 38.69$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.1 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch38150/Area Scan (81x171x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 3.88 W/kg

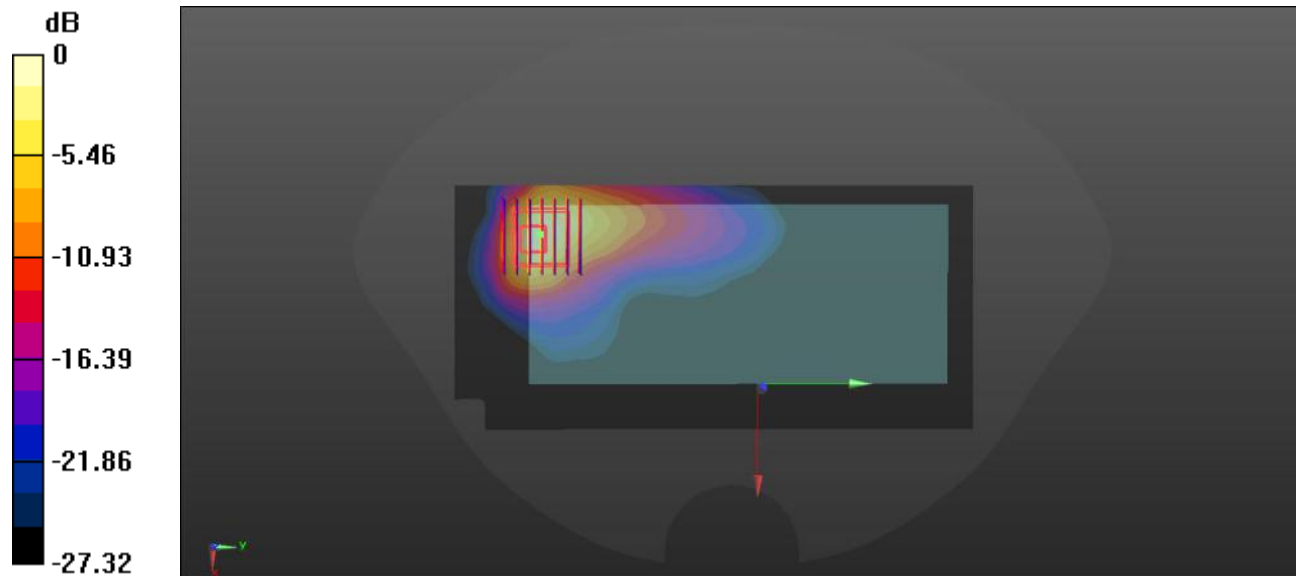
**Ch38150/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.792 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 11.6 W/kg

**SAR(1 g) = 3.73 W/kg; SAR(10 g) = 1.29 W/kg**

Maximum value of SAR (measured) = 4.40 W/kg



0 dB = 4.40 W/kg

**Meas.50 Right Head with Tilt on Middle Channel in LTE Band 41 mode with Antenna 1**

Date: 2021.11.19

Communication System Band: Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz); Frequency: 2593 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated):  $f = 2593$  MHz;  $\sigma = 1.94$  S/m;  $\epsilon_r = 38.19$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature:22.5 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.946 W/kg

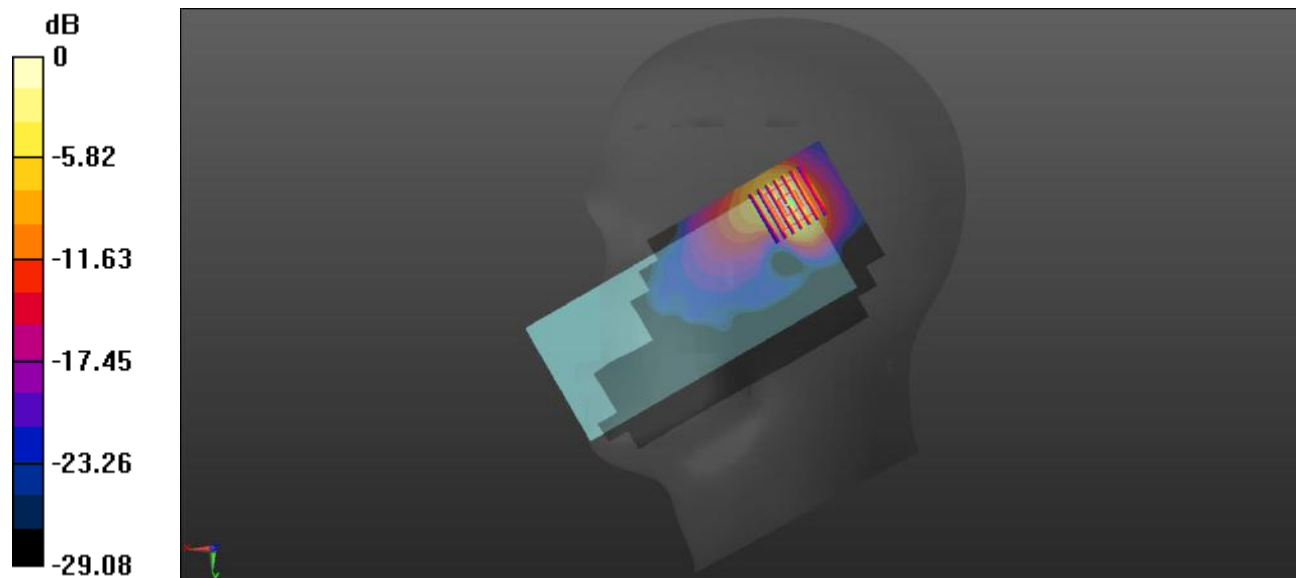
**Ch40620/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.199 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 2.24 W/kg

**SAR(1 g) = 0.867 W/kg; SAR(10 g) = 0.320 W/kg**

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



0 dB = 1.05 W/kg = 0.21 dBW/kg

**Meas.51 Body Plane with Back Side 15mm on High Channel in LTE Band 41 mode with Antenna1**

Date: 2021.11.19

Communication System: Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz); Frequency: 2680 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated):  $f = 2680$  MHz;  $\sigma = 2.057$  S/m;  $\epsilon_r = 37.885$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch41490/Area Scan (71x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.146 W/kg

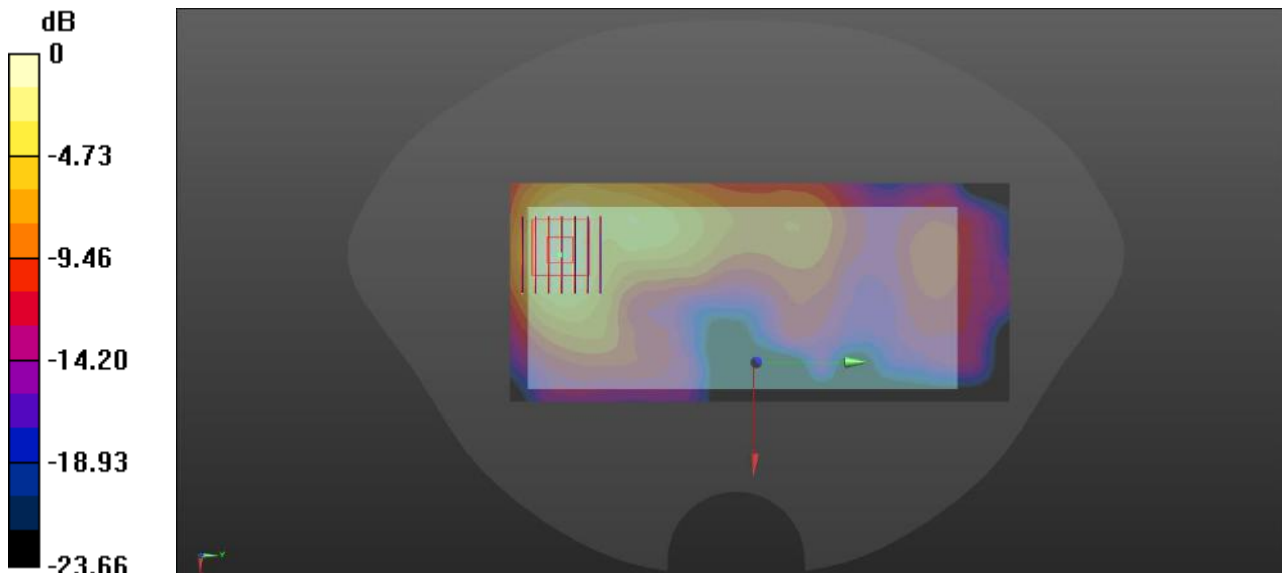
**Ch41490/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.880 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.299 W/kg

**SAR(1 g) = 0.142 W/kg; SAR(10 g) = 0.066 W/kg**

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



0 dB = 0.160 W/kg

**Meas.52 Body Plane with Top Edge 10mm on High Channel in LTE Band 41 mode with Antenna 1**

Date: 2021.11.19

Communication System Band: Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz); Frequency: 2680 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated):  $f = 2680$  MHz;  $\sigma = 2.057$  S/m;  $\epsilon_r = 37.885$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch41490/Area Scan (61x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.961 W/kg

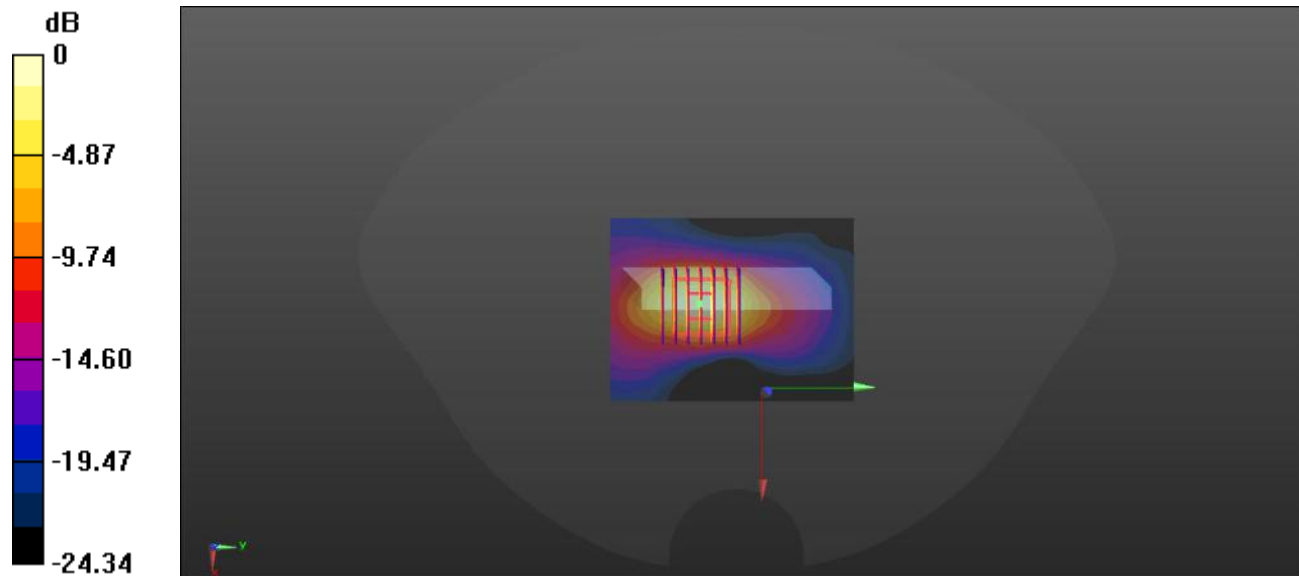
**Ch41490/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.13 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.68 W/kg

**SAR(1 g) = 0.794 W/kg; SAR(10 g) = 0.325 W/kg**

Maximum value of SAR (measured) = 0.910 W/kg



0 dB = 0.910 W/kg = -0.41 dBW/kg



**Meas.53 Body Plane with Top Edge 0mm on High Channel in LTE Band 41 with Antenna 1**

Date: 2021.11.19

Communication System: Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz); Frequency: 2680 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated):  $f = 2680$  MHz;  $\sigma = 2.057$  S/m;  $\epsilon_r = 37.885$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch41490/Area Scan (61x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 4.59 W/kg

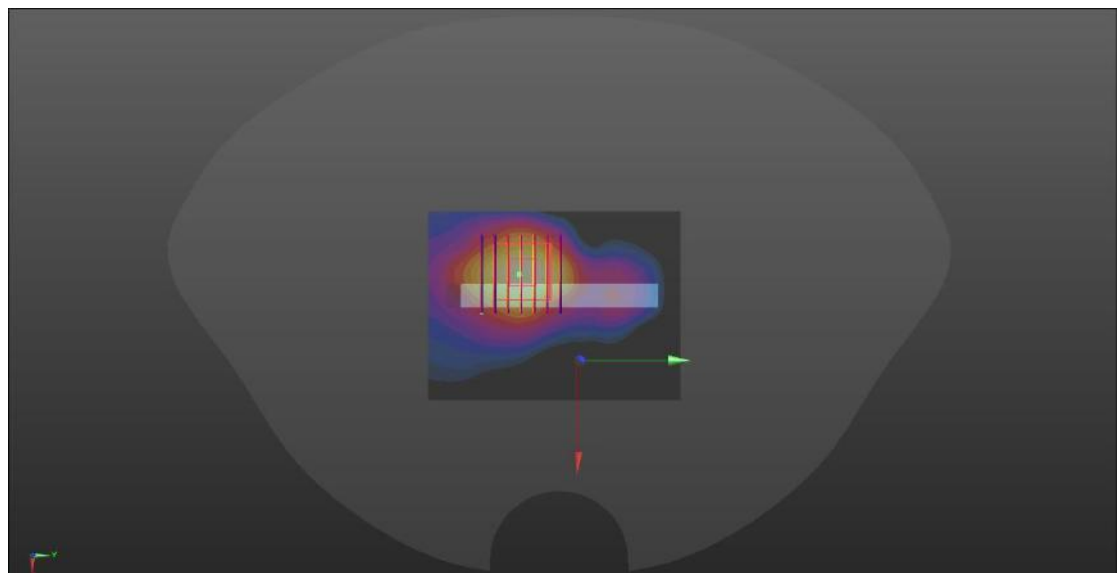
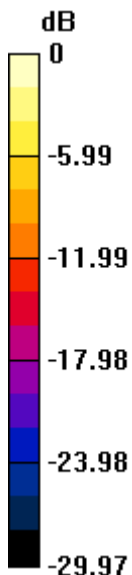
**Ch41490/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.09 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 10.9 W/kg

**SAR(1 g) = 3.62 W/kg; SAR(10 g) = 1.2 W/kg**

Maximum value of SAR (measured) = 4.51 W/kg



0 dB = 4.51 W/kg

**Meas.54 Right Head with Cheek on Low Channel in N5 mode with Antenna 1**

Date: 2021.11.20

Communication System Band: N5; Frequency: 834 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 834 \text{ MHz}$ ;  $\sigma = 0.883 \text{ S/m}$ ;  $\epsilon_r = 41.007$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch166800/Area Scan (71x131x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.468 W/kg

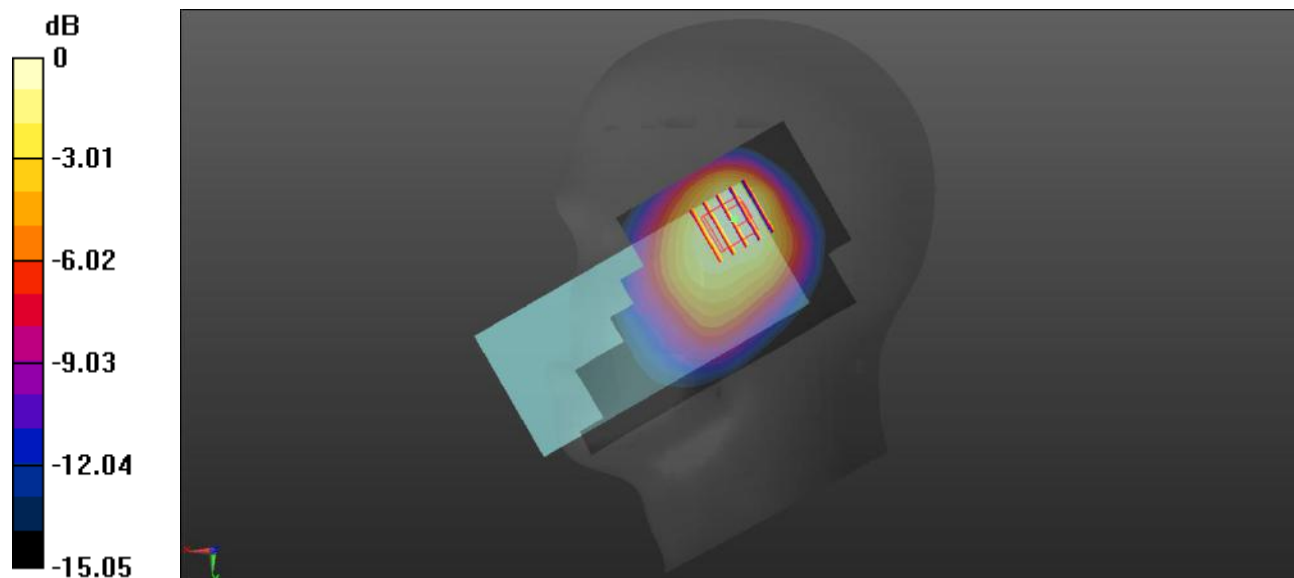
**Ch166800/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 16.60 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.718 W/kg

**SAR(1 g) = 0.436 W/kg; SAR(10 g) = 0.295 W/kg**

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



0 dB = 0.436 W/kg

**Meas.55 Body Plane with Back Side 15mm on Low Channel in N5 mode with Antenna 1**

Date: 2021.11.20

Communication System Band: N5; Frequency: 834 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 834 \text{ MHz}$ ;  $\sigma = 0.883 \text{ S/m}$ ;  $\epsilon_r = 41.007$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch166800/Area Scan (71x131x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.114 W/kg

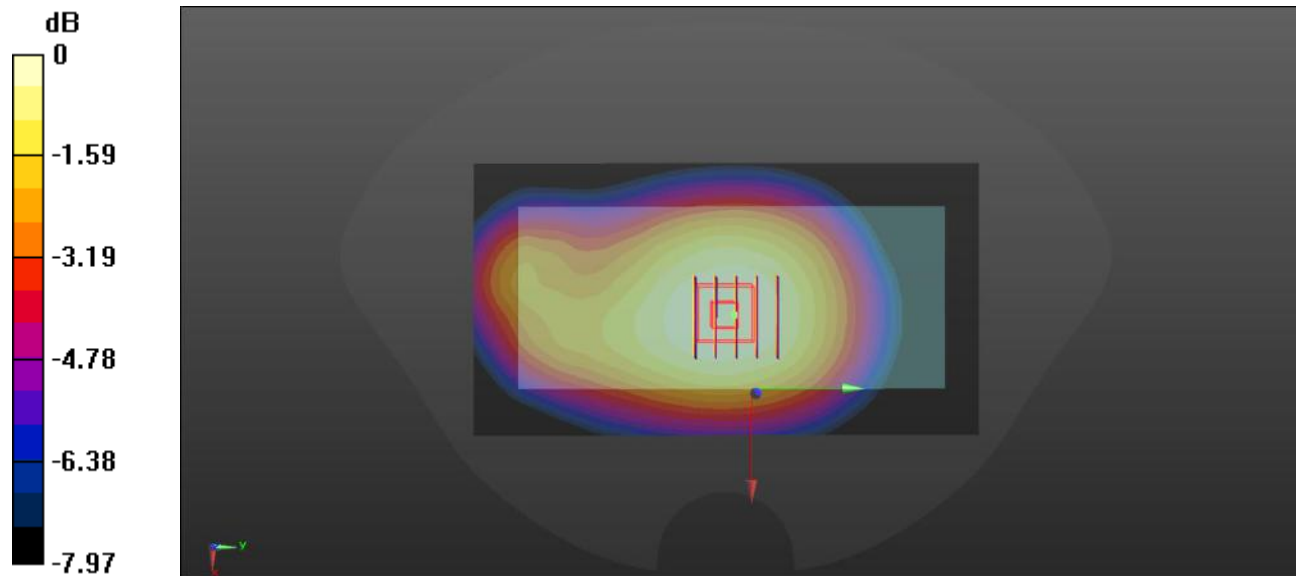
**Ch166800/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 11.08 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.135 W/kg

**SAR(1 g) = 0.108 W/kg; SAR(10 g) = 0.083 W/kg**

Maximum value of SAR (measured) = 0.113 W/kg



0 dB = 0.113 W/kg

**Meas.56 Body Plane with Back Side 10mm on Low Channel in N5 mode with Antenna 1**

Date: 2021.11.20

Communication System Band: N5; Frequency: 834 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 834 \text{ MHz}$ ;  $\sigma = 0.883 \text{ S/m}$ ;  $\epsilon_r = 41.007$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.1, 10.1, 10.1); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch166800/Area Scan (71x131x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.209 W/kg

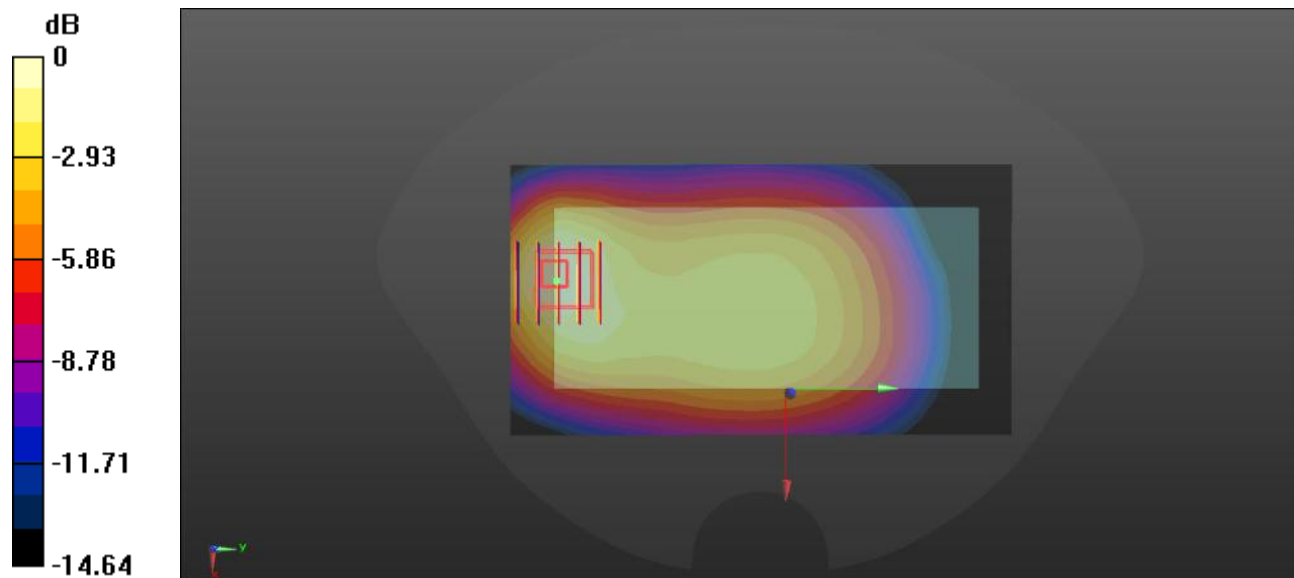
**Ch166800/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 11.33 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.313 W/kg

**SAR(1 g) = 0.187 W/kg; SAR(10 g) = 0.115 W/kg**

Maximum value of SAR (measured) = 0.200 W/kg



0 dB = 0.200 W/kg = -6.99 dBW/kg

**Meas.57 Right Head with Tilt on Middle Channel in N7 mode with Antenna 1**

Date: 2021.11.22

Communication System Band: N7; Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2535 \text{ MHz}$ ;  $\sigma = 1.838 \text{ S/m}$ ;  $\epsilon_r = 39.672$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Ambient Temperature:22.4 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch507000/Area Scan (81x161x1):** Interpolated grid:  $dx=1.200 \text{ mm}$ ,  $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 1.01 W/kg

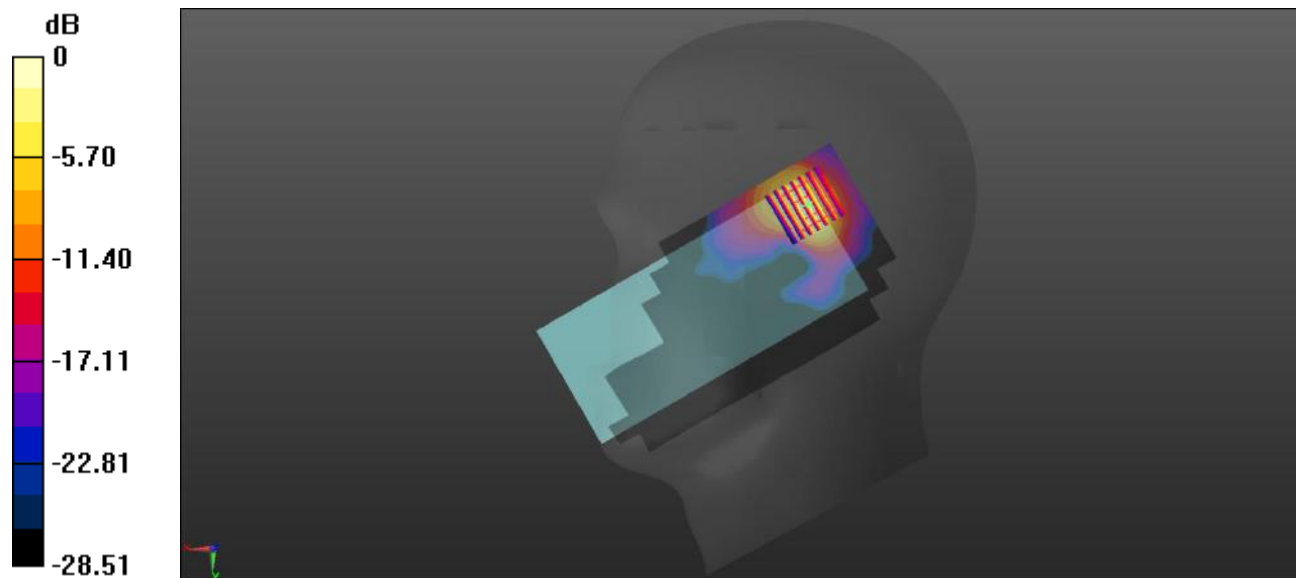
**Ch507000/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 5.139 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.45 W/kg

**SAR(1 g) = 0.957 W/kg; SAR(10 g) = 0.362 W/kg**

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



0 dB = 1.11 W/kg = 0.45 dBW/kg

**Meas.58 Body Plane with Back Side 15mm on Middle Channel in N7 mode with Antenna 0**

Date: 2021.11.22

Communication System: N7; Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2535$  MHz;  $\sigma = 1.838$  S/m;  $\epsilon_r = 39.672$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch507000/Area Scan (81x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.184 W/kg

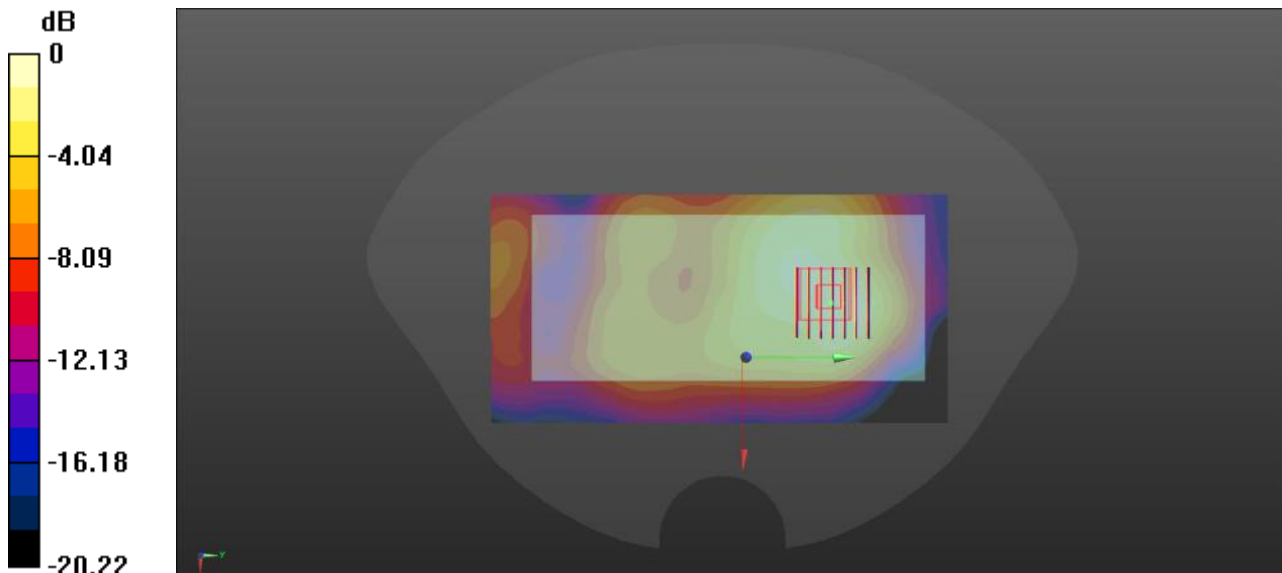
**Ch507000/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.525 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.319 W/kg

**SAR(1 g) = 0.173 W/kg; SAR(10 g) = 0.095 W/kg**

Maximum value of SAR (measured) = 0.188 W/kg



0 dB = 0.188 W/kg

**Meas.59 Body Plane with Top Edge 10mm on Low Channel in N7 mode with Antenna 1**

Date: 2021.11.22

Communication System: N7; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2510$  MHz;  $\sigma = 1.81$  S/m;  $\epsilon_r = 39.752$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch502000/Area Scan (61x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

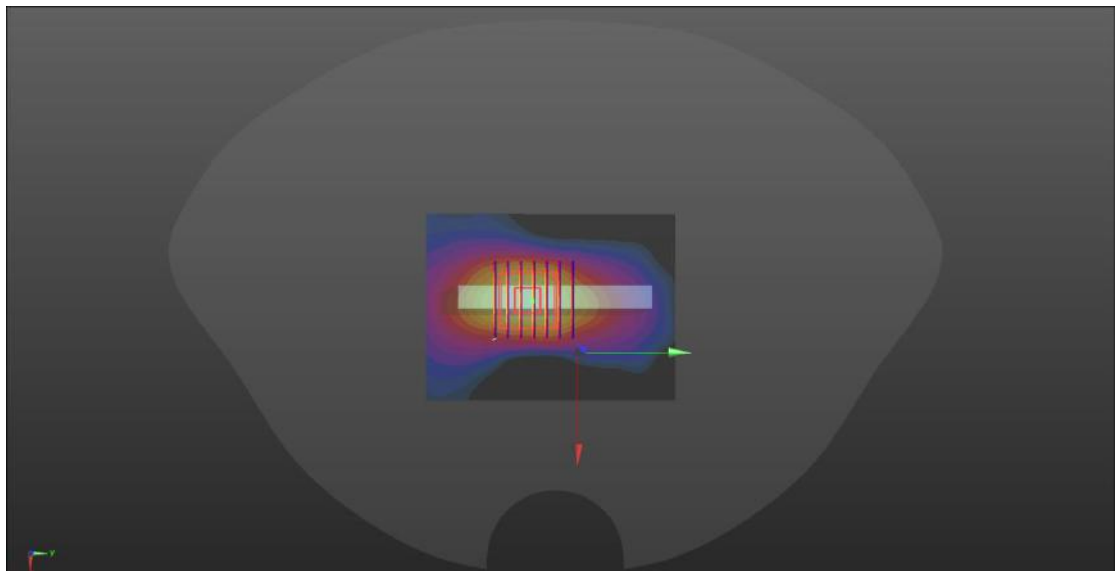
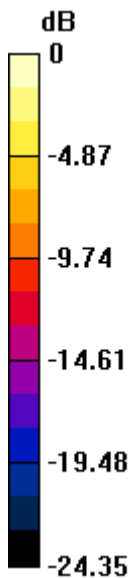
**Ch502000/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.19 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.19 W/kg

**SAR(1 g) = 0.538 W/kg; SAR(10 g) = 0.220 W/kg**

Maximum value of SAR (measured) = 0.628 W/kg



0 dB = 0.628 W/kg

**Meas.60 Body Plane with Top Edge 0mm on Low Channel in N7 mode with Antenna 1**

Date: 2021.11.22

Communication System: N7; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2510$  MHz;  $\sigma = 1.81$  S/m;  $\epsilon_r = 39.752$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch502000/Area Scan (61x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 4.04 W/kg

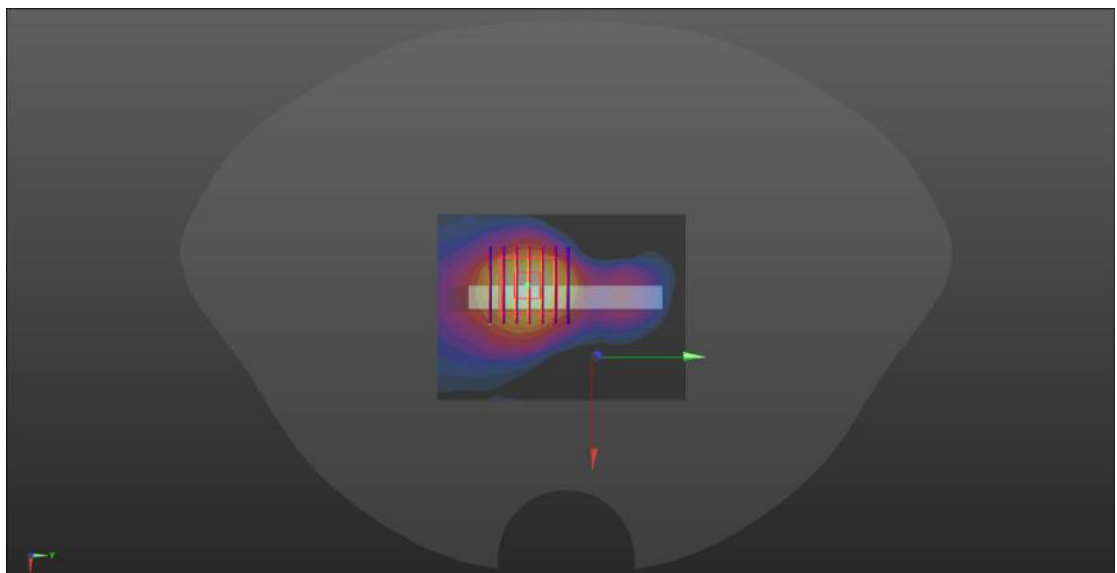
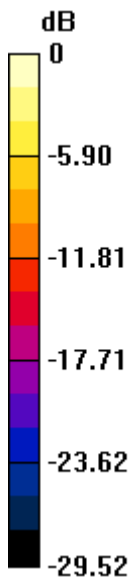
**Ch502000/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.49 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 11.3 W/kg

**SAR(1 g) = 3.5 W/kg; SAR(10 g) = 1.14 W/kg**

Maximum value of SAR (measured) = 4.33 W/kg



0 dB = 4.33 W/kg



**Meas.61 Right Head with Tilt on High Channel in N38 mode with Antenna 1**

Date: 2021.11.23

Communication System Band: N38; Frequency: 2605 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2605$  MHz;  $\sigma = 1.951$  S/m;  $\epsilon_r = 39.264$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature: 22.7 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch521000/Area Scan (81x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.857 W/kg

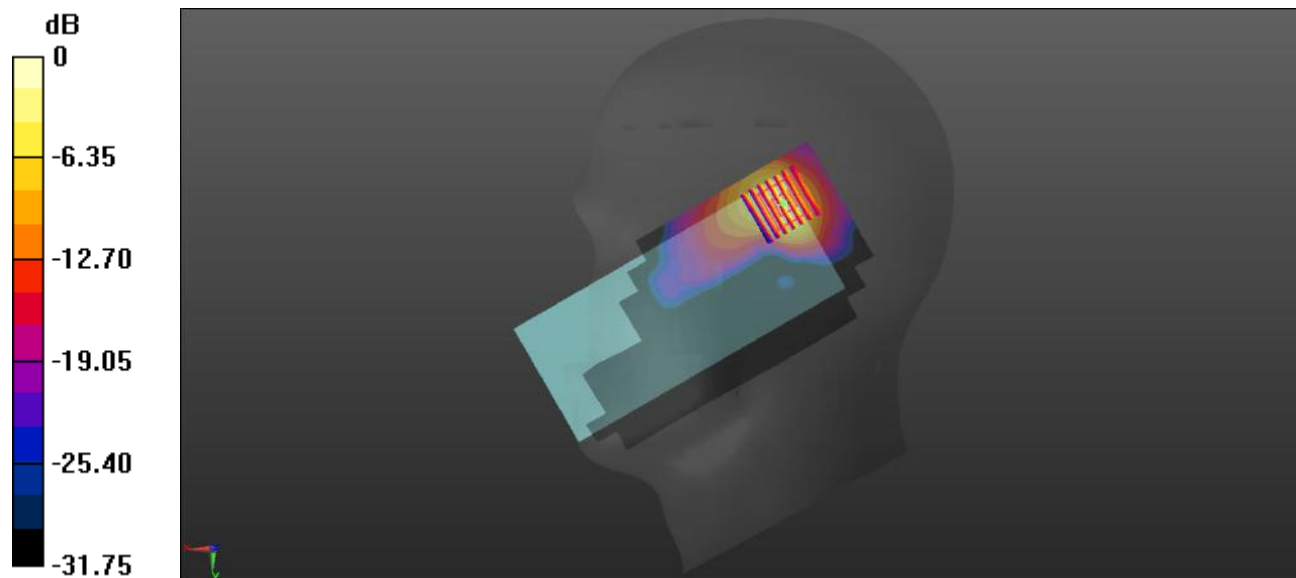
**Ch521000/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.776 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.12 W/kg

**SAR(1 g) = 0.813 W/kg; SAR(10 g) = 0.305 W/kg**

Maximum value of SAR (measured) = 0.978 W/kg



0 dB = 0.978 W/kg

**Meas.62 Body Plane with Back Side 15mm on Low Channel in N38 mode with Antenna 0**

Date: 2021.11.23

Communication System: N38; Frequency: 2585 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2585 \text{ MHz}$ ;  $\sigma = 1.911 \text{ S/m}$ ;  $\epsilon_r = 39.659$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.7 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch517000/Area Scan (81x161x1):** Interpolated grid:  $dx=1.200 \text{ mm}$ ,  $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.260 W/kg

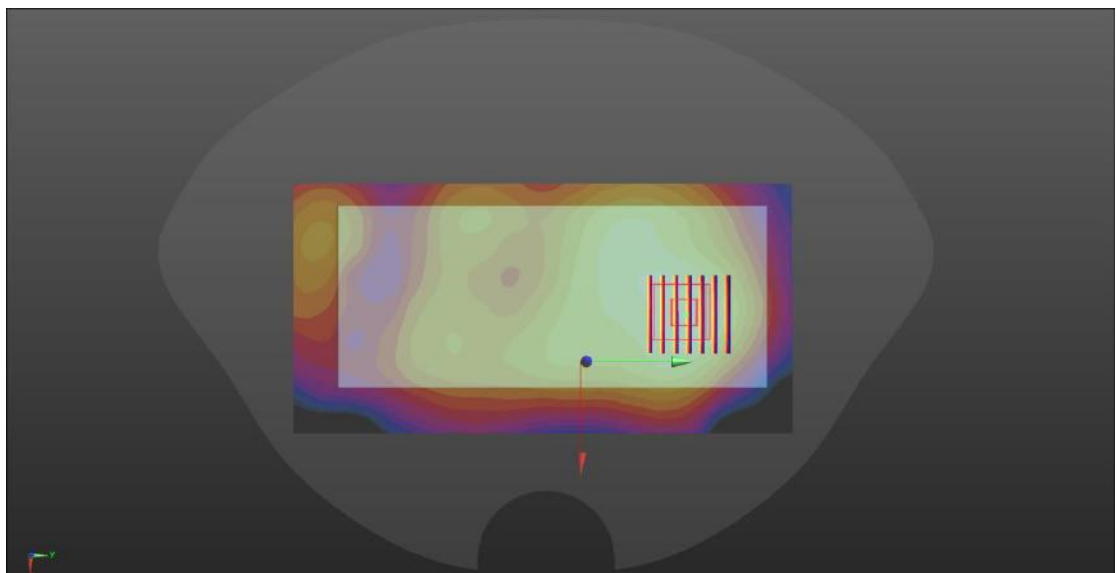
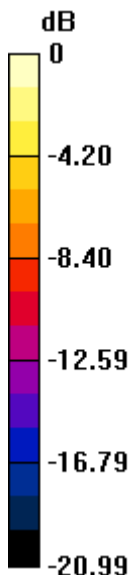
**Ch517000/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 5.873 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.441 W/kg

**SAR(1 g) = 0.239 W/kg; SAR(10 g) = 0.130 W/kg**

Maximum value of SAR (measured) = 0.259 W/kg



0 dB = 0.259 W/kg

**Meas.63 Body Plane with Top Edge 10mm on Middle Channel in N38 mode with Antenna 1**

Date: 2021.11.23

Communication System: N38; Frequency: 2595 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2595$  MHz;  $\sigma = 1.931$  S/m;  $\epsilon_r = 39.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch519000/Area Scan (61x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.08 W/kg

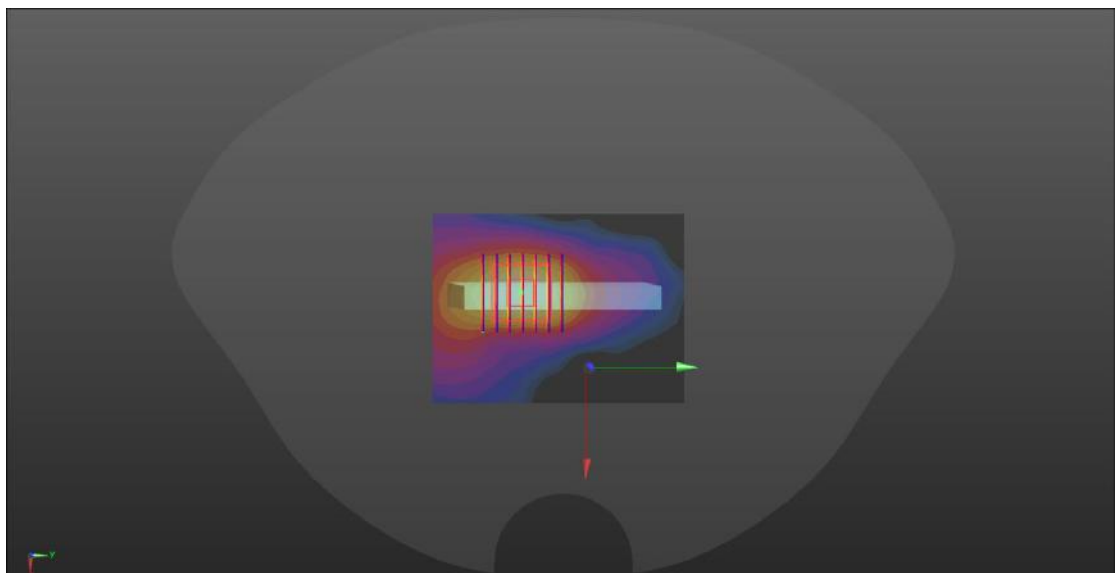
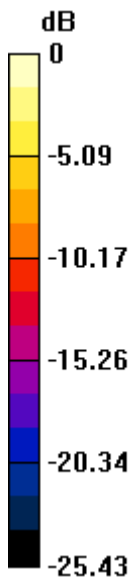
**Ch519000/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.45 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.72 W/kg

**SAR(1 g) = 0.782 W/kg; SAR(10 g) = 0.321 W/kg**

Maximum value of SAR (measured) = 0.931 W/kg



0 dB = 0.931 W/kg

**Meas.64 Body Plane with Top Edge 0mm on Low Channel in N38 mode with Antenna 1**

Date: 2021.11.23

Communication System: N38; Frequency: 2585 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2585$  MHz;  $\sigma = 1.911$  S/m;  $\epsilon_r = 39.659$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch517000/Area Scan (61x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 5.53 W/kg

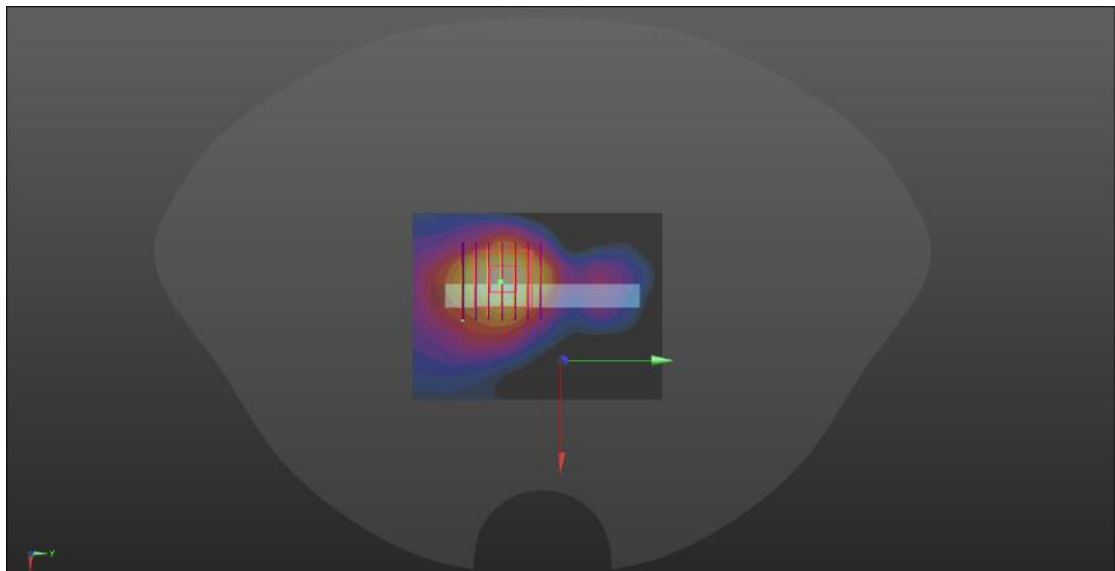
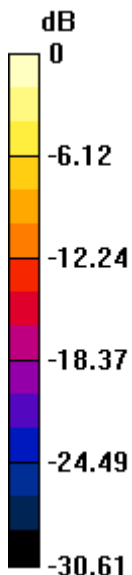
**Ch517000/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.90 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 15.2 W/kg

**SAR(1 g) = 4.46 W/kg; SAR(10 g) = 1.4 W/kg**

Maximum value of SAR (measured) = 5.65 W/kg



0 dB = 5.65 W/kg

**Meas.65 Right Head with Tilt on Low Channel in N41 mode with Antenna 1**

Date: 2021.11.24

Communication System: N41; Frequency: 2546.01 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2546.01$  MHz;  $\sigma = 1.884$  S/m;  $\epsilon_r = 39.185$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature:22.4 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch509202/Area Scan (81x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

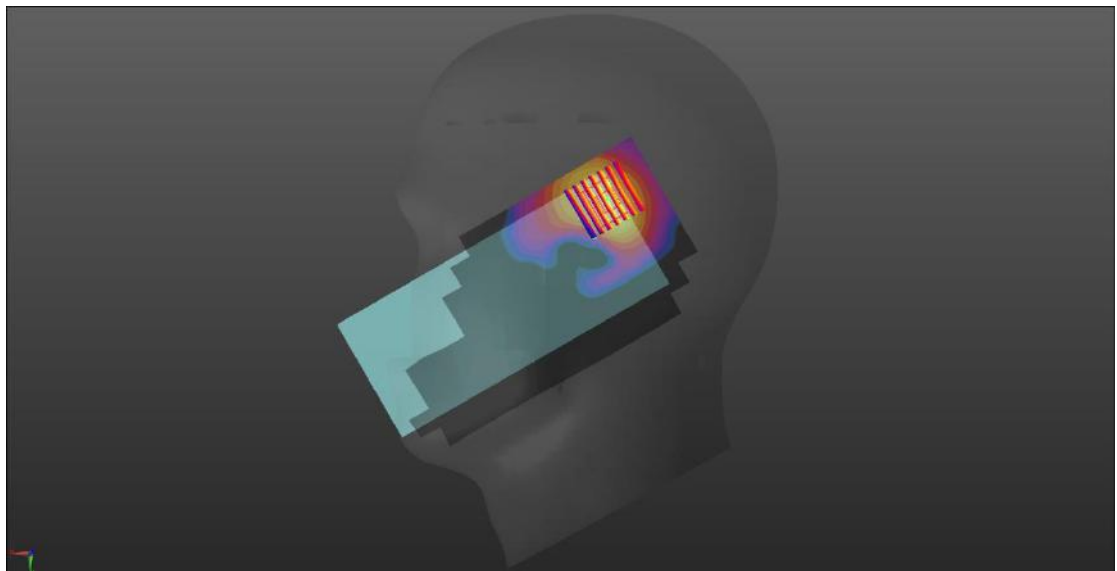
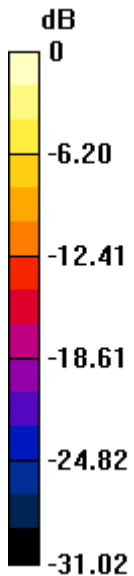
**Ch509202/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.926 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 2.47 W/kg

**SAR(1 g) = 0.973 W/kg; SAR(10 g) = 0.364 W/kg**

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



0 dB = 1.16 W/kg

**Meas.66 Body Plane with Back Side 15mm on Low Channel in N41 mode with Antenna0**

Date: 2021.11.24

Communication System: N41; Frequency: 2546.01 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2546.01$  MHz;  $\sigma = 1.884$  S/m;  $\epsilon_r = 39.185$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch509202/Area Scan (81x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

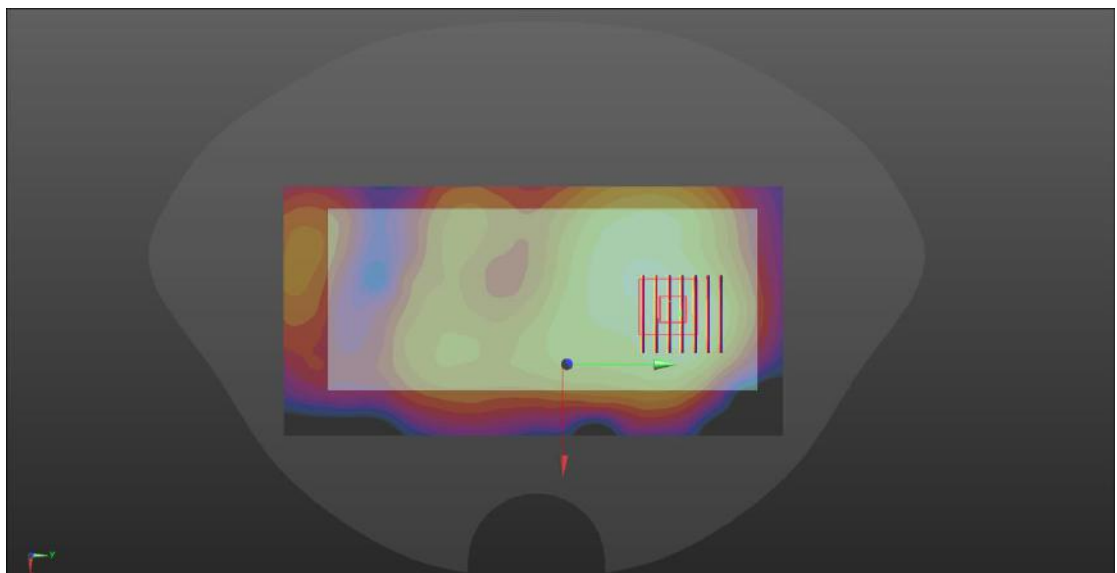
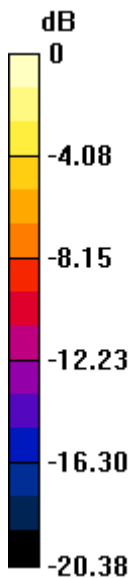
**Ch509202/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.220 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.354 W/kg

**SAR(1 g) = 0.193 W/kg; SAR(10 g) = 0.106 W/kg**

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



0 dB = 0.210 W/kg

**Meas.67 Body Plane with Top Edge 10mm on Middle Channel in N41 mode with Antenna 1**

Date: 2021.11.24

Communication System: N41; Frequency: 2592.99 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2592.99$  MHz;  $\sigma = 1.941$  S/m;  $\epsilon_r = 38.716$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch518598/Area Scan (61x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.702 W/kg

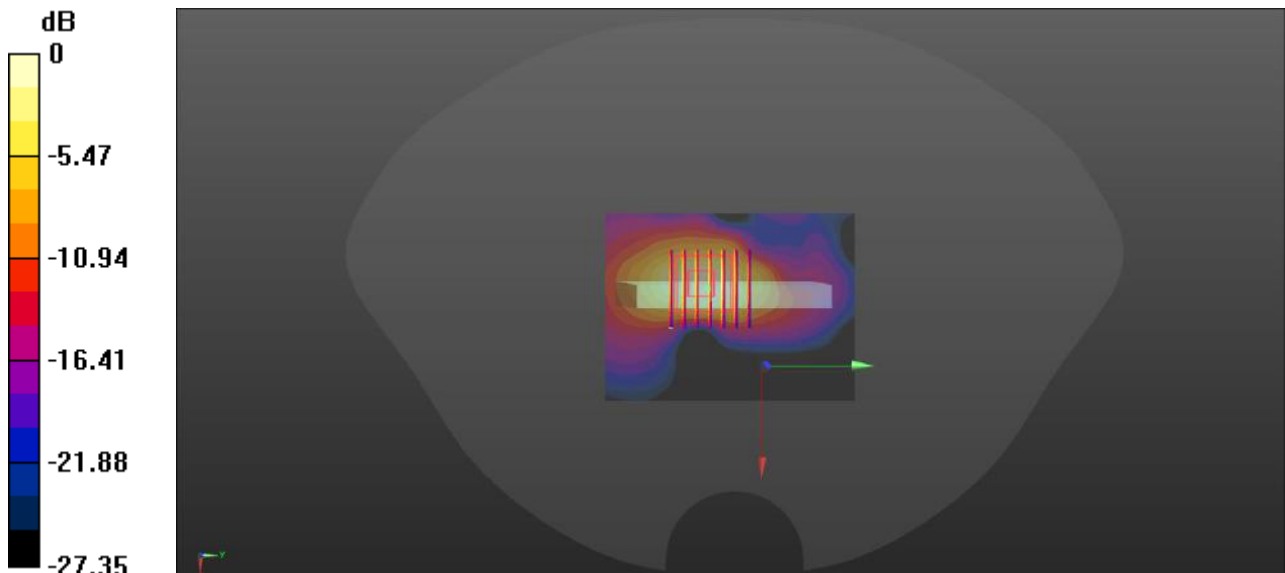
**Ch518598/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.57 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.22 W/kg

**SAR(1 g) = 0.551 W/kg; SAR(10 g) = 0.229 W/kg**

Maximum value of SAR (measured) = 0.626 W/kg



0 dB = 0.626 W/kg

**Meas.68 Body Plane with Top Edge 0mm on Middle Channel in N41 mode with Antenna 1**

Date: 2021.11.24

Communication System Band: N41; Frequency: 2592.99 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2592.99$  MHz;  $\sigma = 1.941$  S/m;  $\epsilon_r = 38.716$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch518598/Area Scan (61x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 7.65 W/kg

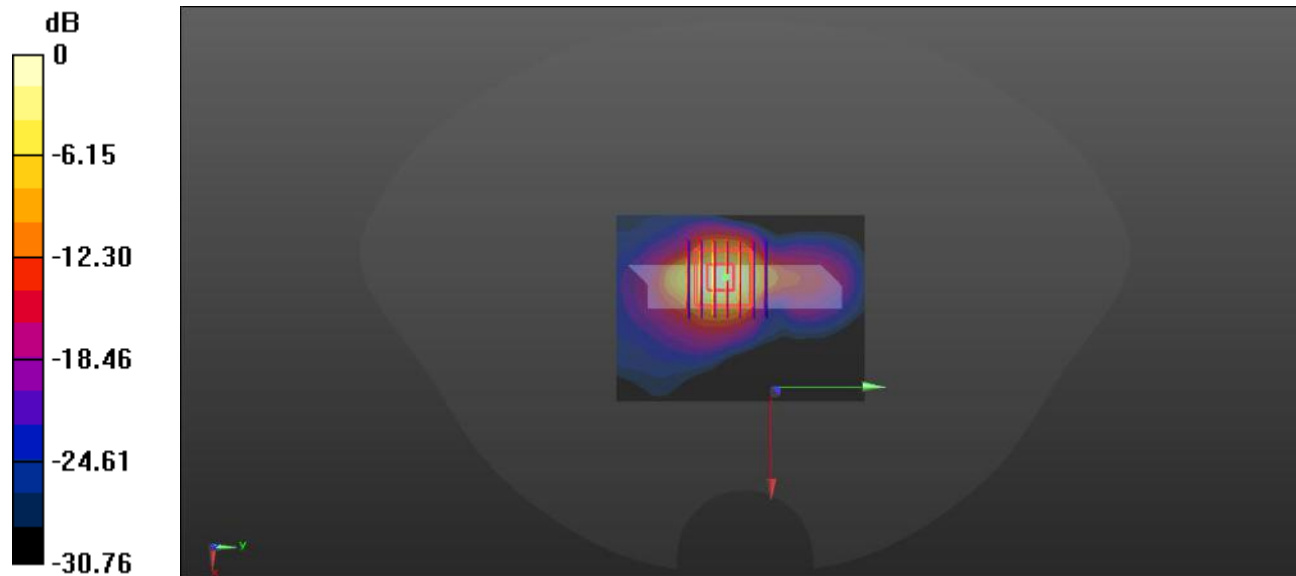
**Ch518598/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 27.07 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 17.0 W/kg

**SAR(1 g) = 5.23 W/kg; SAR(10 g) = 1.69 W/kg**

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



0 dB = 6.37 W/kg



**Meas.69 Right Head with Tilt on Middle Channel in N66 mode with Antenna 1**

Date: 2021.11.21

Communication System: N66; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1745$  MHz;  $\sigma = 1.36$  S/m;  $\epsilon_r = 40.246$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Ambient Temperature: 22.8 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch349000/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.06 W/kg

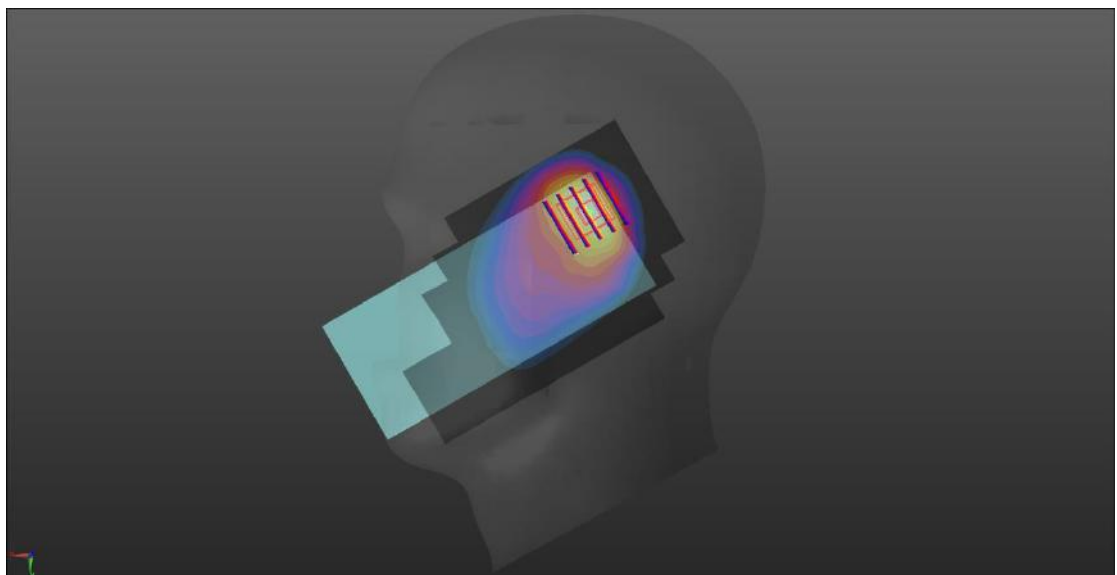
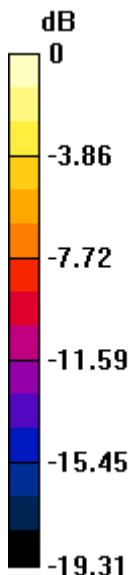
**Ch349000/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.67 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.99 W/kg

**SAR(1 g) = 0.962 W/kg; SAR(10 g) = 0.444 W/kg**

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



0 dB = 1.15 W/kg

**Meas.70 Body Plane with Back Side 15mm on Middle Channel in N66 mode with Antenna 0**

Date: 2021.11.21

Communication System: N66; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1745$  MHz;  $\sigma = 1.36$  S/m;  $\epsilon_r = 40.246$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.8 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch349000/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

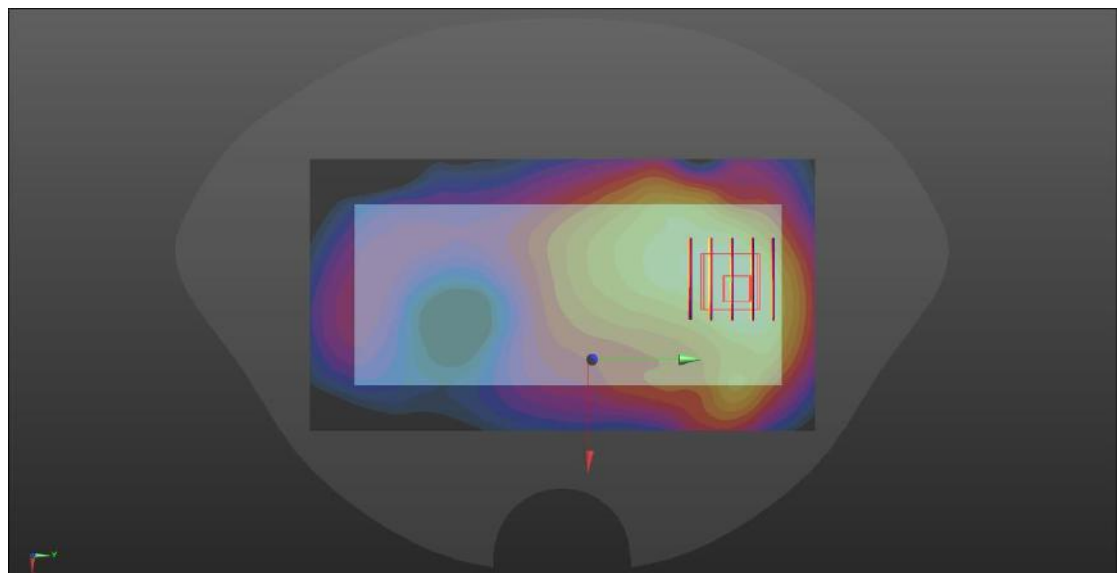
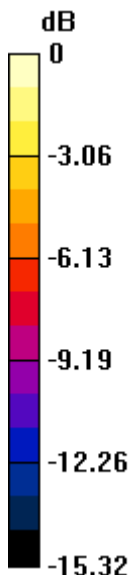
**Ch349000/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.567 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.317 W/kg

**SAR(1 g) = 0.207 W/kg; SAR(10 g) = 0.126 W/kg**

Maximum value of SAR (measured) = 0.219 W/kg



0 dB = 0.219 W/kg

**Meas.71 Body Plane with Bottom Edge 10mm on Middle Channel in N66 mode with Antenna 0**

Date: 2021.11.21

Communication System: N66; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1745$  MHz;  $\sigma = 1.36$  S/m;  $\epsilon_r = 40.246$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.8 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch349000/Area Scan (51x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.725 W/kg

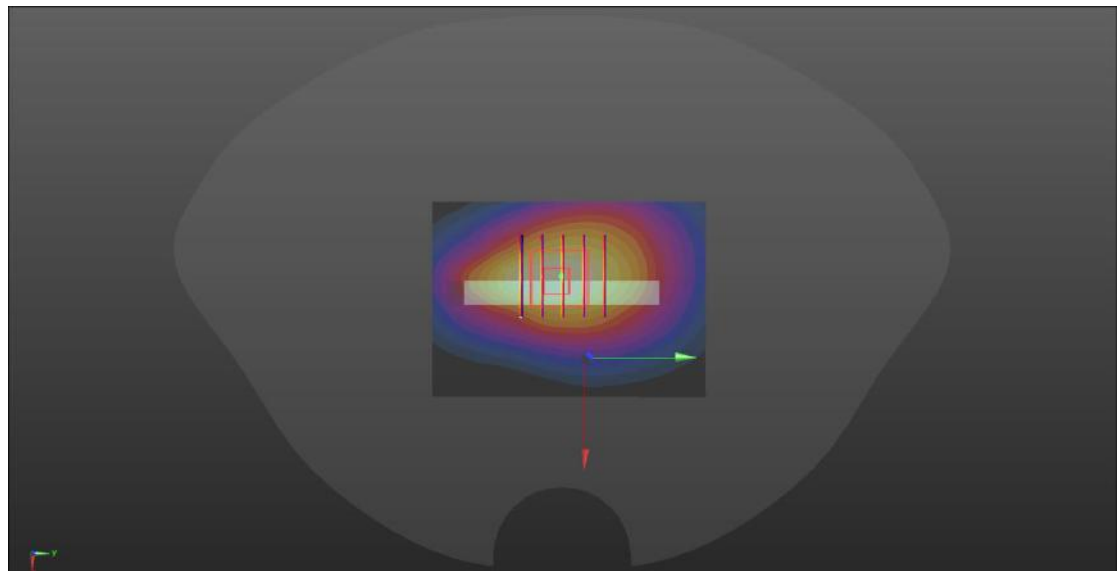
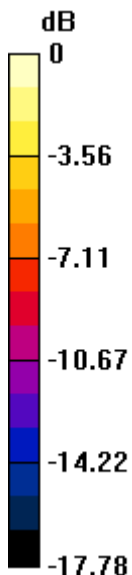
**Ch349000/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.73 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.03 W/kg

**SAR(1 g) = 0.609 W/kg; SAR(10 g) = 0.332 W/kg**

Maximum value of SAR (measured) = 0.670 W/kg



0 dB = 0.670 W/kg

**Meas.72 Body Plane with Bottom Edge 0mm on Middle Channel in N66 with Antenna 0**

Date: 2021.11.21

Communication System: N66; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1745 \text{ MHz}$ ;  $\sigma = 1.36 \text{ S/m}$ ;  $\epsilon_r = 40.246$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.8 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71) @ 1745 MHz; Calibrated: 2021/7/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021/7/15
- Phantom: Twin-SAM Right V5.0 (20deg probe tilt); Type: QD 000 P40 CE; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Ch349000/Area Scan (51x71x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 3.55 W/kg

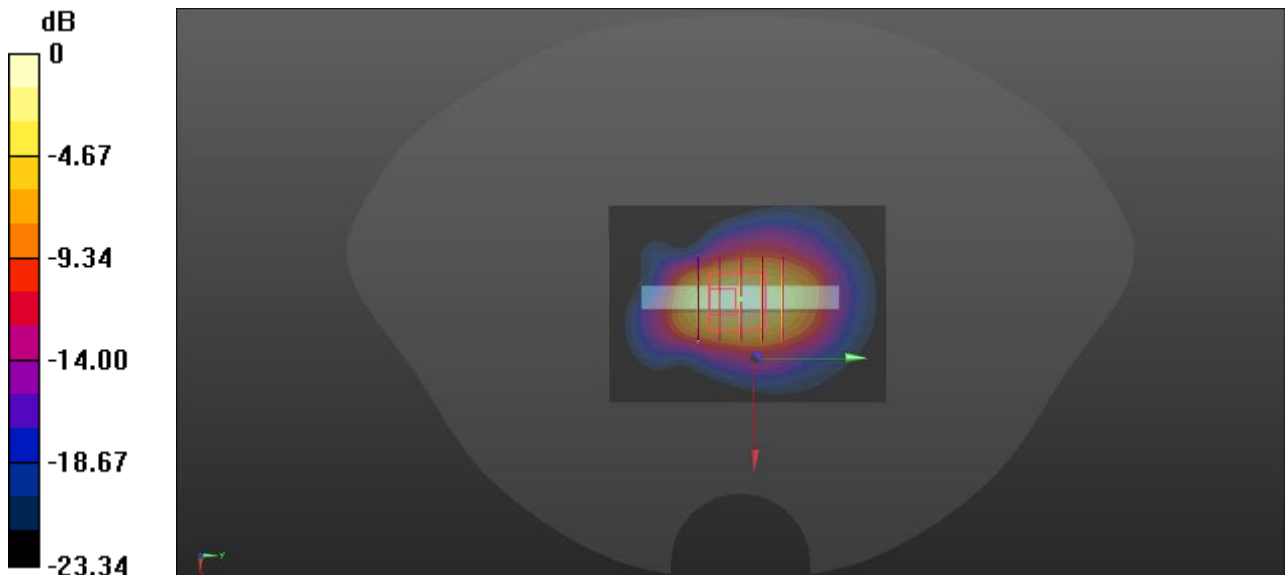
**Ch349000/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 46.22 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 6.67 W/kg

**SAR(1 g) = 2.86 W/kg; SAR(10 g) = 1.3 W/kg**

Maximum value of SAR (measured) = 3.50 W/kg



0 dB = 3.50 W/kg

**Meas.73 Left Head with Cheek on Low Channel in IEEE802.11b mode with Antenna 7**

Date: 2021.11.25

Communication System Band: WLAN(b); Frequency: 2412 MHz;Duty Cycle: 1:1.008

Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.8$  S/m;  $\epsilon_r = 39.012$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.19, 8.19, 8.19); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch1/Area Scan (81x151x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.10 W/kg

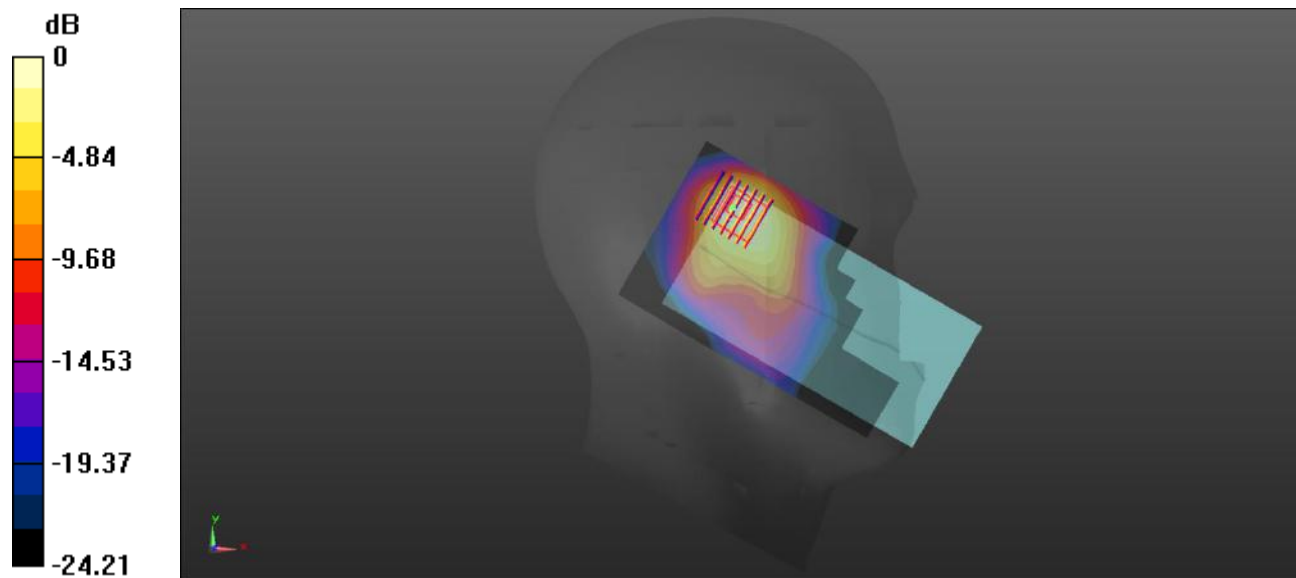
**Ch1/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.43 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.15 W/kg

**SAR(1 g) = 0.978 W/kg; SAR(10 g) = 0.479 W/kg**

Maximum value of SAR (measured) = 1.06 W/kg



0 dB = 1.06 W/kg

**Meas.74 Body Plane with Back Side 15mm on Middle Channel in IEEE802.11b mode with Antenna 7**

Date: 2021.11.25

Communication System: WLAN(b); Frequency: 2437 MHz; Duty Cycle: 1:1.008

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.824$  S/m;  $\epsilon_r = 38.934$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.19, 8.19, 8.19); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch6/Area Scan (81x151x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0945 W/kg

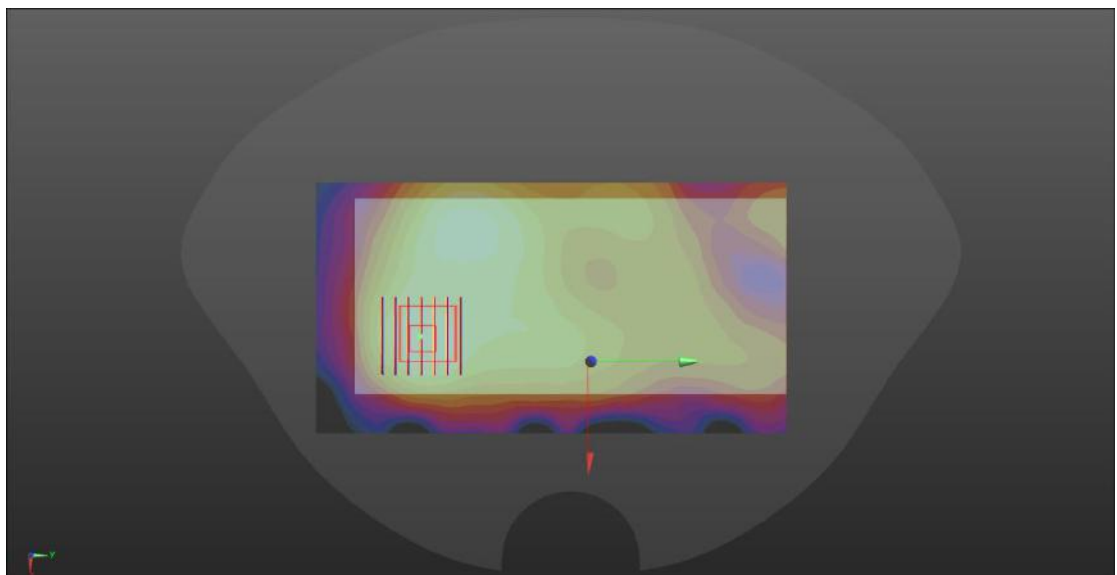
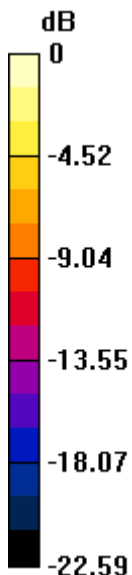
**Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.792 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.168 W/kg

**SAR(1 g) = 0.084 W/kg; SAR(10 g) = 0.043 W/kg**

Maximum value of SAR (measured) = 0.0923 W/kg



0 dB = 0.0923 W/kg

**Meas.75 Body Plane with Back Side 10mm on Middle Channel in IEEE802.11b mode with Antenna 7**

Date: 2021.11.25

Communication System Band: WLAN(b); Frequency: 2437 MHz;Duty Cycle: 1:1.008

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.824$  S/m;  $\epsilon_r = 38.934$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.19, 8.19, 8.19); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch6/Area Scan (81x151x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm

Maximum value of SAR (interpolated) = 0.364 W/kg

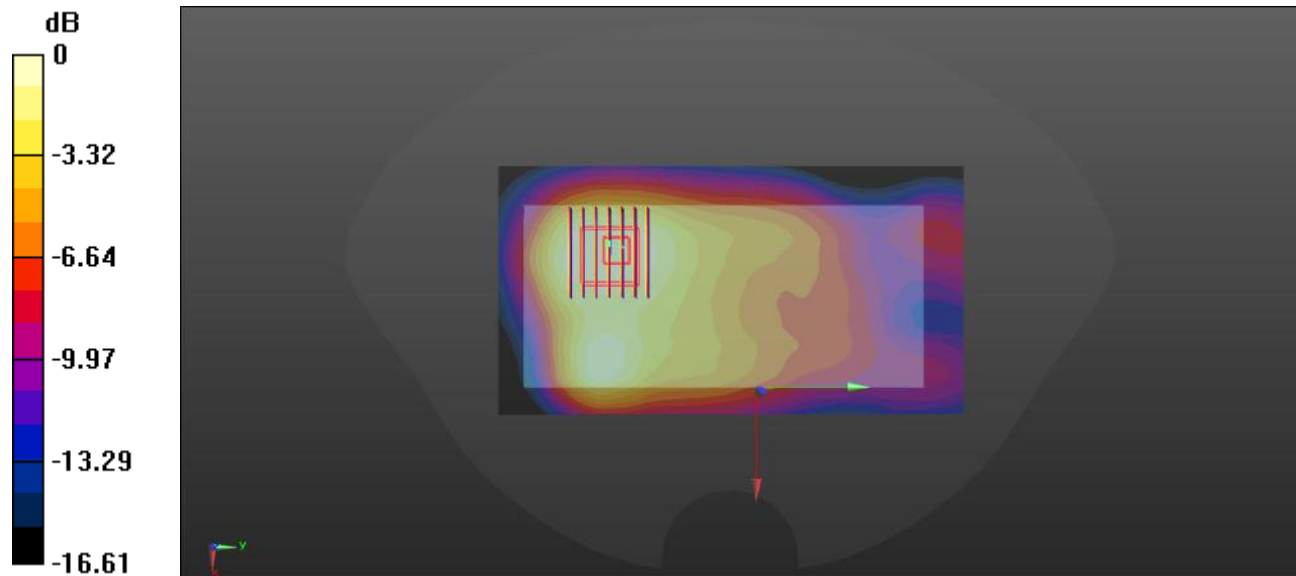
**Ch6/Zoom Scan (8x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 8.177 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.578 W/kg

**SAR(1 g) = 0.338 W/kg; SAR(10 g) = 0.201 W/kg**

Maximum value of SAR (measured) = 0.365 W/kg



0 dB = 0.365 W/kg

**Meas.76 Left Head with Cheek on Channel 58 in IEEE802.11ac80 mode with Antenna 7**

Date: 2021.11.26

Communication System: WLAN(ac) 80MHz; Frequency: 5290 MHz;Duty Cycle: 1:1.071

Medium parameters used (interpolated):  $f = 5290$  MHz;  $\sigma = 4.638$  S/m;  $\epsilon_r = 36.764$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Ambient Temperature:22.5 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(5.61, 5.61, 5.61); Calibrated: 2021.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch58/Area Scan (91x181x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.861 W/kg

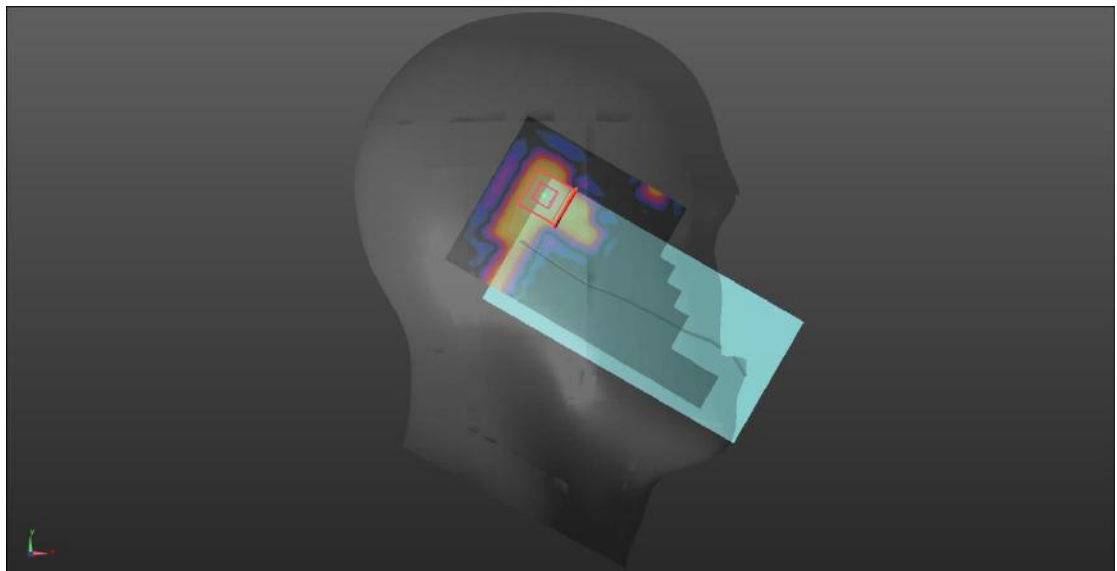
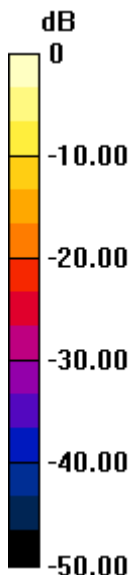
**Ch58/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.891 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 2.44 W/kg

**SAR(1 g) = 0.611 W/kg; SAR(10 g) = 0.152 W/kg**

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



0 dB = 0.843 W/kg



**Meas.77 Left Head with Cheek on Channel 138 in IEEE802.11ac80 mode with Antenna 7**

Date: 2021.11.27

Communication System: WLAN(ac) 80MHz; Frequency: 5690 MHz;Duty Cycle: 1:1.071

Medium parameters used (interpolated):  $f = 5690$  MHz;  $\sigma = 5.137$  S/m;  $\epsilon_r = 35.015$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Ambient Temperature:22.3 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(5.1, 5.1, 5.1); Calibrated: 2021.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch138/Area Scan (91x181x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

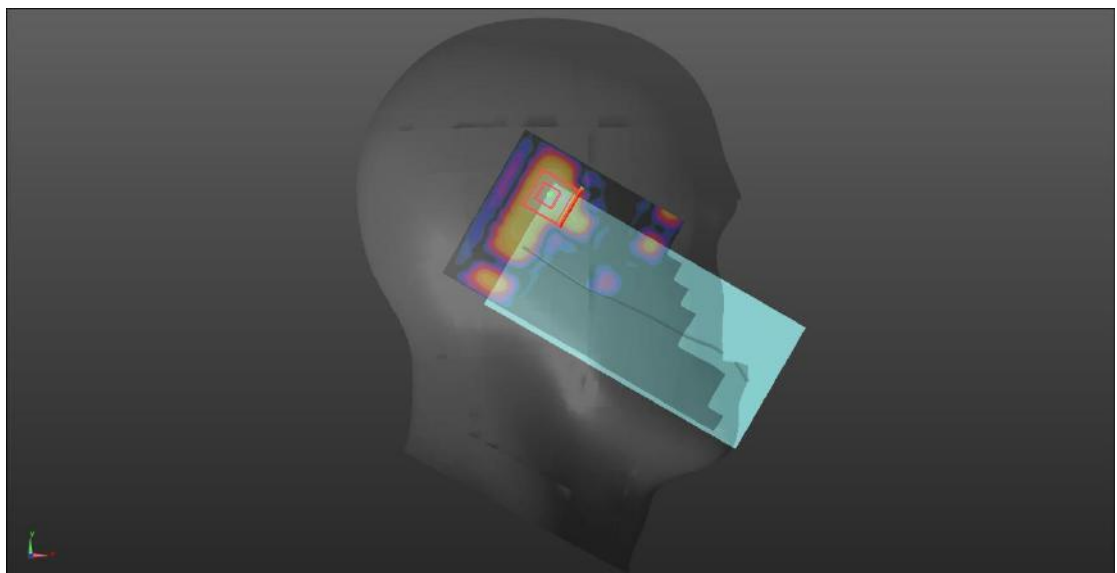
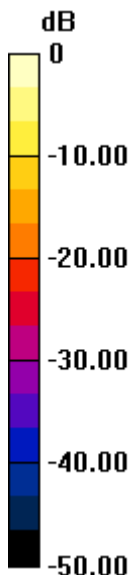
**Ch138/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.542 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.38 W/kg

**SAR(1 g) = 0.598 W/kg; SAR(10 g) = 0.152 W/kg**

Maximum value of SAR (measured) = 0.827 W/kg



0 dB = 0.827 W/kg

**Meas.78 Left Head with Cheek on Channel 155 in IEEE802.11ac80 mode with Antenna 7**

Date: 2021.11.28

Communication System: WLAN(ac) 80MHz; Frequency: 5775 MHz;Duty Cycle: 1:1.071

Medium parameters used (interpolated):  $f = 5775$  MHz;  $\sigma = 5.213$  S/m;  $\epsilon_r = 35.042$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Ambient Temperature:22.2 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(5.15, 5.15, 5.15); Calibrated: 2021.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch155/Area Scan (91x181x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

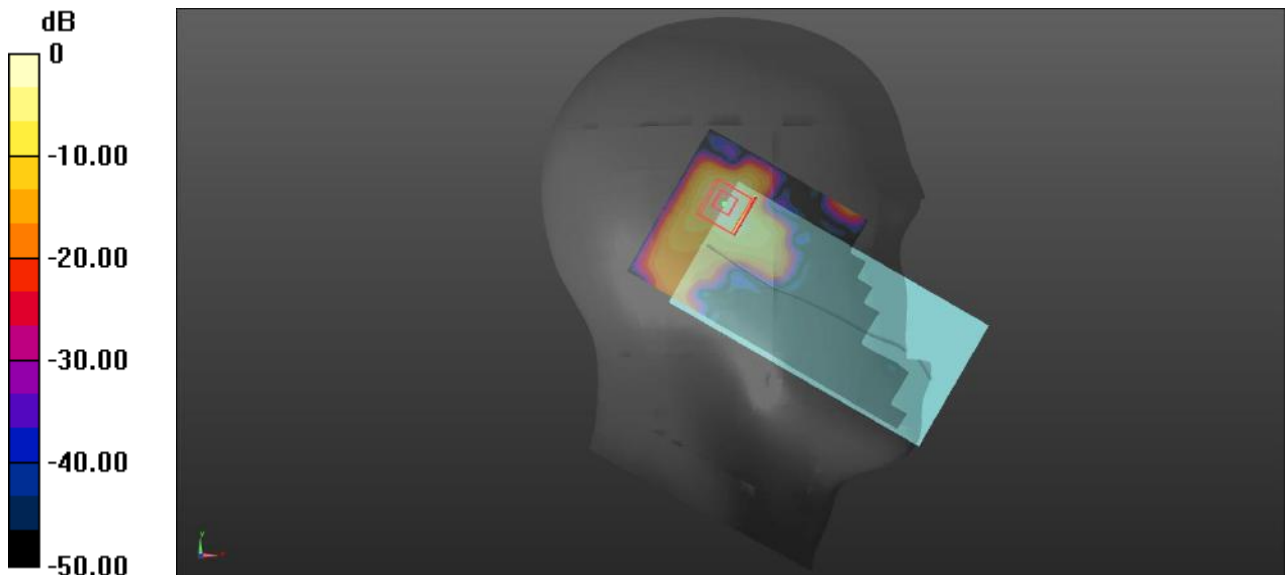
**Ch155/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.147 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 4.36 W/kg

**SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.313 W/kg**

Maximum value of SAR (measured) = 1.28 W/kg



0 dB = 1.28 W/kg

**Meas.79 Body Plane with Back Side 15mm on Channel 58 in IEEE802.11ac80 mode with Antenna 7**

Date: 2021.11.26

Communication System: WLAN(ac) 80MHz; Frequency: 5290 MHz; Duty Cycle: 1:1.071

Medium parameters used (interpolated):  $f = 5290$  MHz;  $\sigma = 4.638$  S/m;  $\epsilon_r = 36.764$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(5.61, 5.61, 5.61); Calibrated: 2021.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch58/Area Scan (101x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.239 W/kg

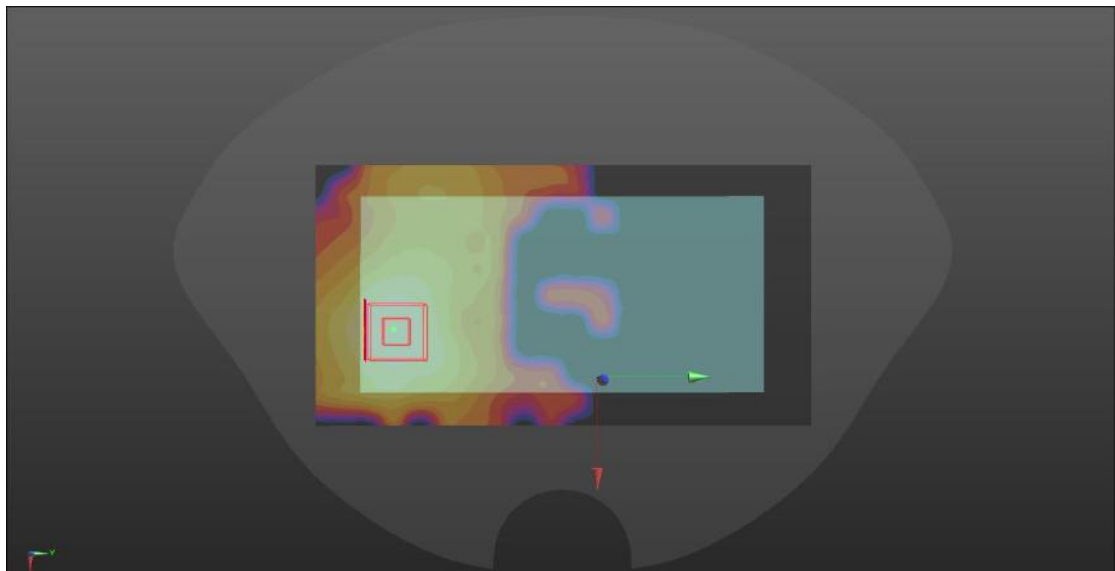
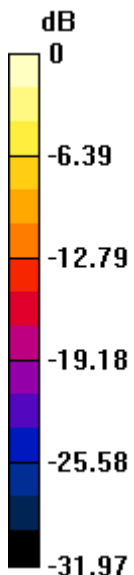
**Ch58/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.357 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.586 W/kg

**SAR(1 g) = 0.218 W/kg; SAR(10 g) = 0.091 W/kg**

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



0 dB = 0.241 W/kg

**Meas.80 Body Plane with Back Side 15mm on Channel 138 in IEEE802.11ac80 mode with Antenna 7**

Date: 2021.11.27

Communication System: WLAN(ac) 80MHz; Frequency: 5690 MHz;Duty Cycle: 1:1.071

Medium parameters used (interpolated):  $f = 5690$  MHz;  $\sigma = 5.137$  S/m;  $\epsilon_r = 35.015$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(5.1, 5.1, 5.1); Calibrated: 2021.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch138/Area Scan (101x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

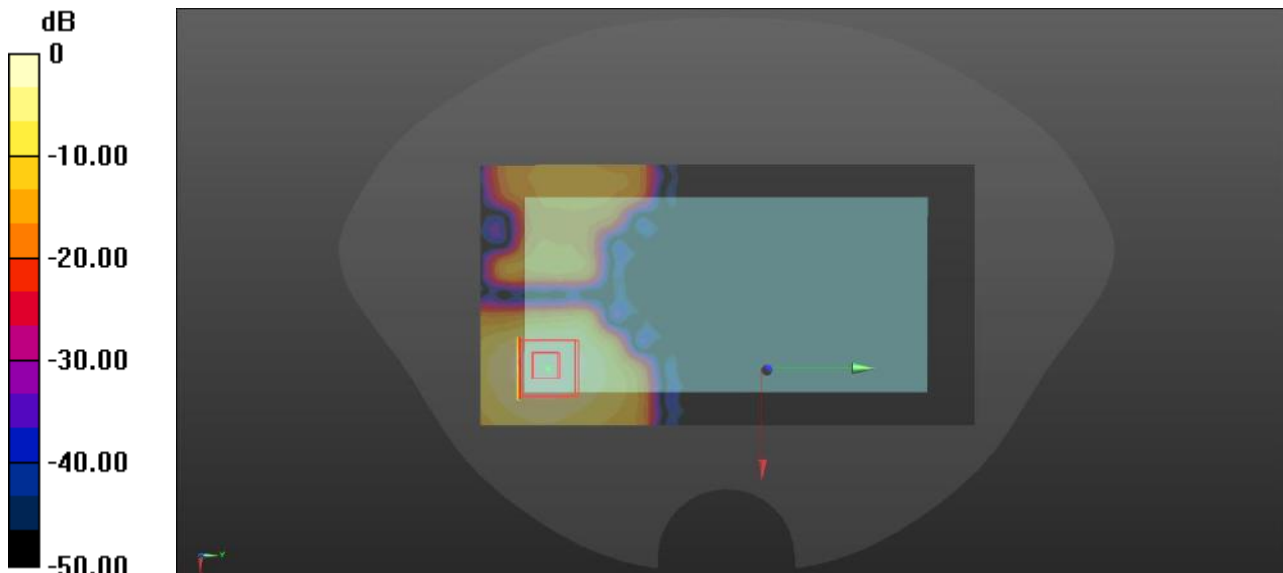
**Ch138/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.23 W/kg

**SAR(1 g) = 0.407 W/kg; SAR(10 g) = 0.157 W/kg**

Maximum value of SAR (measured) = 0.477 W/kg



0 dB = 0.477 W/kg

**Meas.81 Body Plane with Back Side 15mm on Channel 155 in IEEE802.11ac80 mode with Antenna 7**

Date: 2021.11.28

Communication System: WLAN(ac) 80MHz; Frequency: 5775 MHz; Duty Cycle: 1:1.071

Medium parameters used (interpolated):  $f = 5775$  MHz;  $\sigma = 5.213$  S/m;  $\epsilon_r = 35.042$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(5.15, 5.15, 5.15); Calibrated: 2021.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

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

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

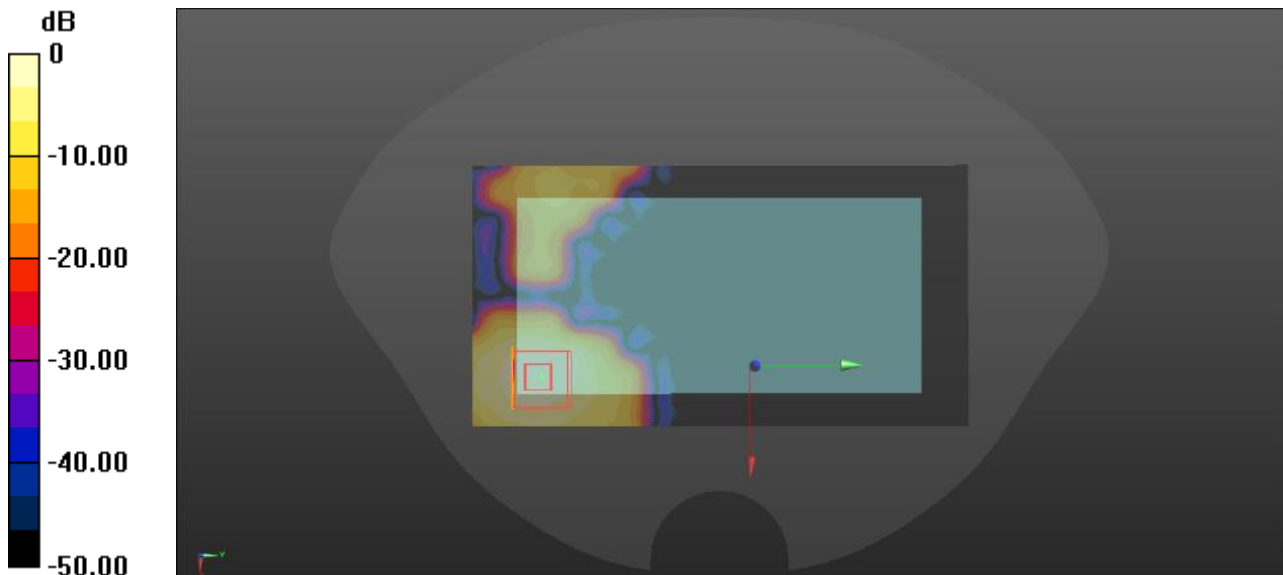
**Ch155/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.788 W/kg

**SAR(1 g) = 0.225 W/kg; SAR(10 g) = 0.086 W/kg**

Maximum value of SAR (measured) = 0.275 W/kg



0 dB = 0.275 W/kg

**Meas.82 Body Plane with Left Edge 10mm on Channel 42 in IEEE802.11ac80 mode with Antenna 7**

Date: 2021.11.26

Communication System: WLAN(ac) 80MHz; Frequency: 5210 MHz; Duty Cycle: 1:1.071

Medium parameters used (interpolated):  $f = 5210$  MHz;  $\sigma = 4.521$  S/m;  $\epsilon_r = 36.949$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(5.72, 5.72, 5.72); Calibrated: 2021.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch42/Area Scan (101x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.287 W/kg

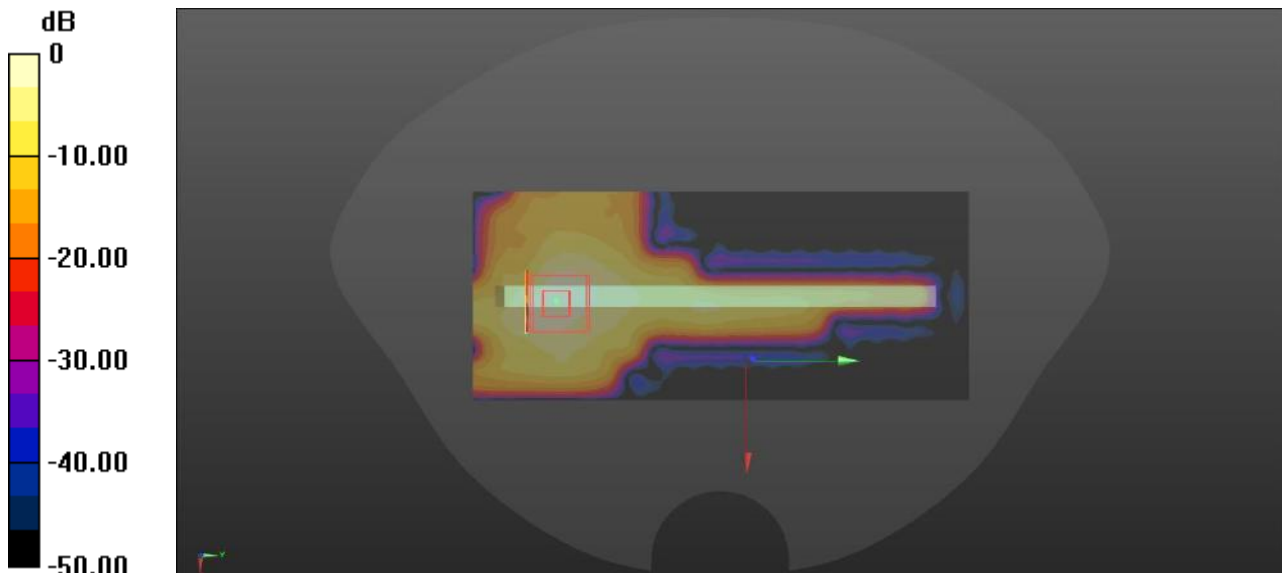
**Ch42/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.738 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.874 W/kg

**SAR(1 g) = 0.248 W/kg; SAR(10 g) = 0.099 W/kg**

Maximum value of SAR (measured) = 0.256 W/kg



0 dB = 0.256 W/kg

**Meas.83 Body Plane with Top Edge 10mm on Channel 155 in IEEE802.11ac80 mode with Antenna 7**

Date: 2021.11.28

Communication System: WLAN(ac) 80MHz; Frequency: 5775 MHz; Duty Cycle: 1: 1.071

Medium parameters used (interpolated):  $f = 5775$  MHz;  $\sigma = 5.213$  S/m;  $\epsilon_r = 35.042$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(5.15, 5.15, 5.15) @ 5775 MHz; Calibrated: 2021/7/23
- Sensor-Surface: 4mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021/7/15
- Phantom: Twin-SAM Right V5.0 (20deg probe tilt); Type: QD 000 P40 CE; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Ch155/Area Scan (71x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.636 W/kg

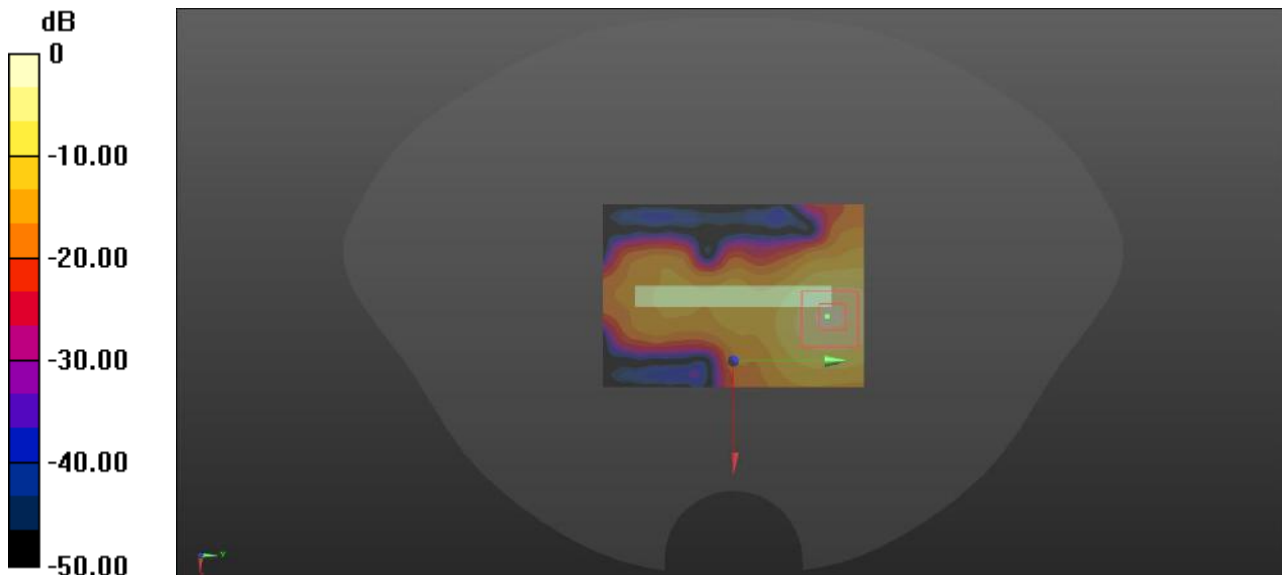
**Ch155/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.729 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.50 W/kg

**SAR(1 g) = 0.644 W/kg; SAR(10 g) = 0.240 W/kg**

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



0 dB = 1.20 W/kg

**Meas.84 Body Plane with Left Edge 0mm on Channel 58 in IEEE802.11ac80 mode with Antenna 7**

Date: 2021.11.26

Communication System Band: WLAN(ac) 80MHz; Frequency: 5290 MHz; Duty Cycle: 1:1.071

Medium parameters used (interpolated):  $f = 5290$  MHz;  $\sigma = 4.638$  S/m;  $\epsilon_r = 36.764$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(5.61, 5.61, 5.61); Calibrated: 2021.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch58/Area Scan (81x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.69 W/kg

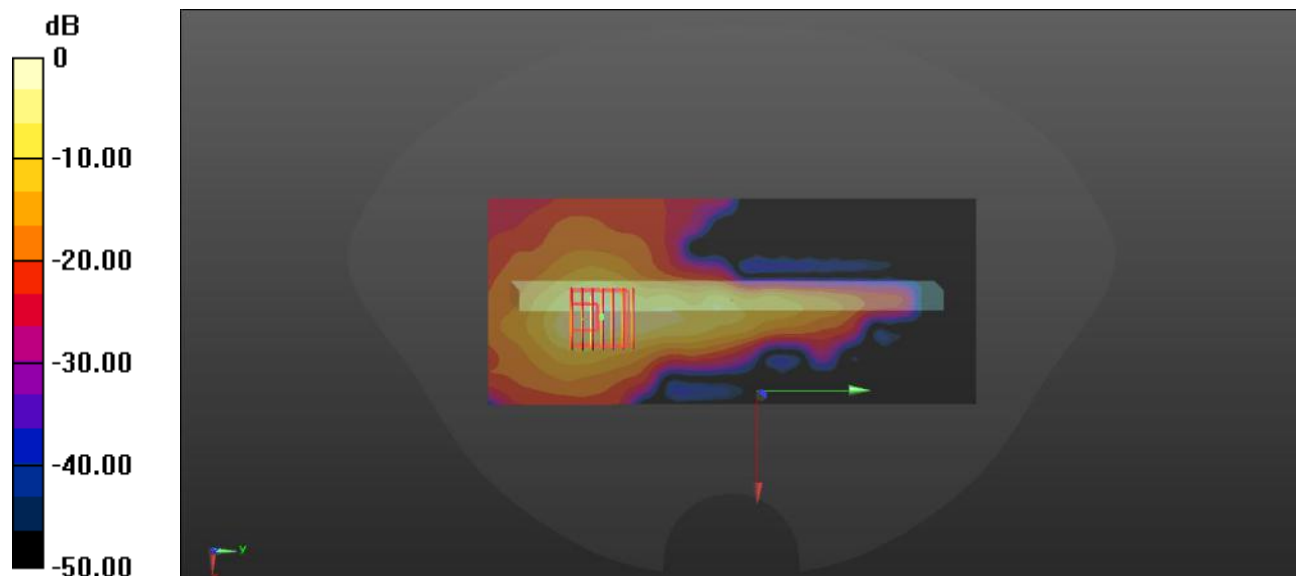
**Ch58/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.344 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 18.6 W/kg

**SAR(1 g) = 2 W/kg; SAR(10 g) = 0.509 W/kg**

Maximum value of SAR (measured) = 2.56 W/kg



0 dB = 2.56 W/kg



**Meas.85 Body Plane with Left Edge 0mm on Channel 122 in IEEE802.11ac80 mode with Antenna 7**

Date: 2021.11.27

Communication System Band: WLAN(ac) 80MHz; Frequency: 5690 MHz; Duty Cycle: 1:1.071

Medium parameters used (interpolated):  $f = 5690$  MHz;  $\sigma = 5.137$  S/m;  $\epsilon_r = 35.015$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(5.1, 5.1, 5.1); Calibrated: 2021.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch138/Area Scan (81x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.92 W/kg

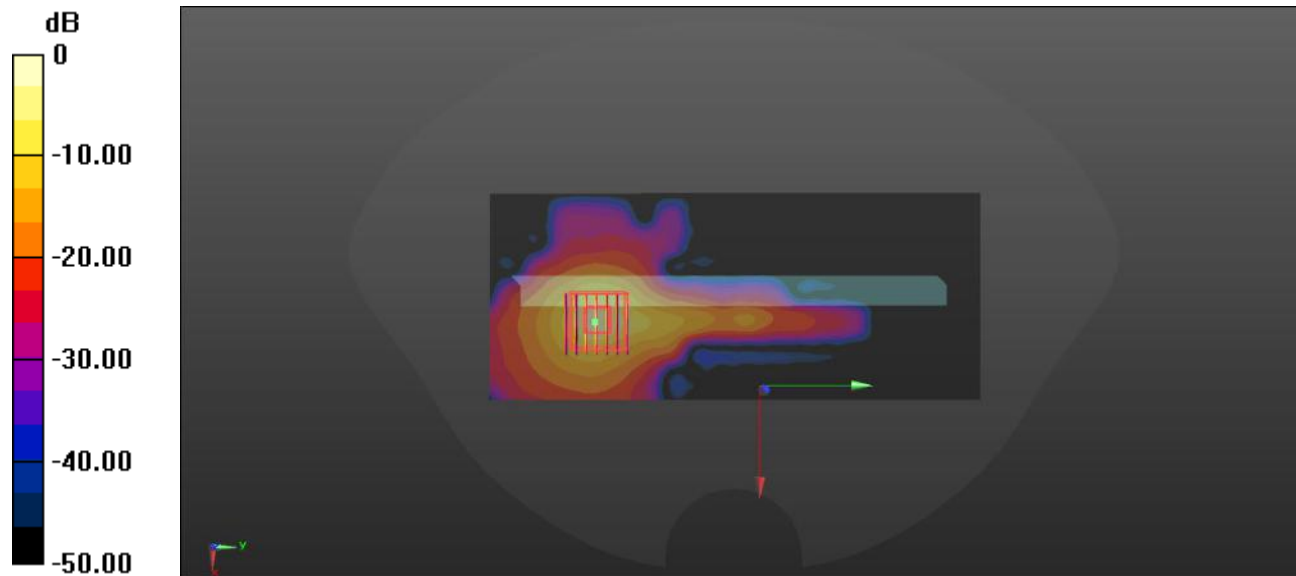
**Ch138/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.257 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 36.4 W/kg

**SAR(1 g) = 5.41 W/kg; SAR(10 g) = 1.12 W/kg**

Maximum value of SAR (measured) = 7.45 W/kg



0 dB = 7.45 W/kg

**Meas.86 Left Head with Cheek on Middle Channel in Bluetooth mode with Antenna 7**

Date: 2021.11.25

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

Medium parameters used (interpolated):  $f = 2441$  MHz;  $\sigma = 1.829$  S/m;  $\epsilon_r = 38.856$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.19, 8.19, 8.19); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch39/Area Scan (81x151x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.336 W/kg

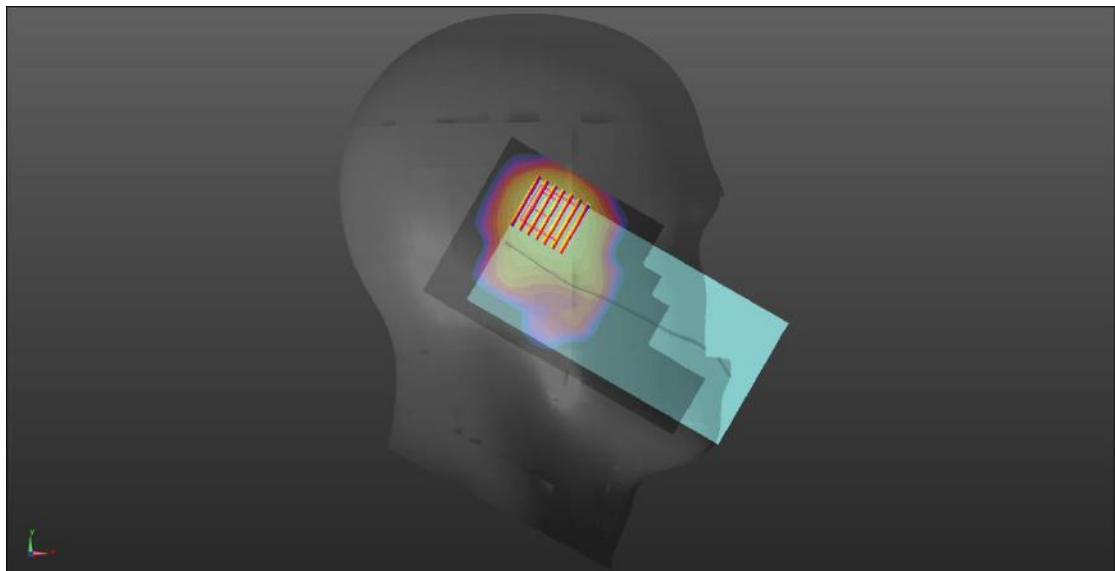
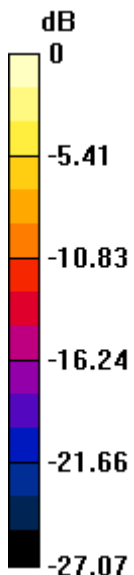
**Ch39/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.278 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.660 W/kg

**SAR(1 g) = 0.289 W/kg; SAR(10 g) = 0.138 W/kg**

Maximum value of SAR (measured) = 0.331 W/kg



0 dB = 0.331 W/kg

**Meas.87 Body Plane with Back Side 15mm on Middle Channel in Bluetooth mode with Antenna 7**

Date: 2021.11.25

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

Medium parameters used (interpolated):  $f = 2441$  MHz;  $\sigma = 1.829$  S/m;  $\epsilon_r = 38.856$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.19, 8.19, 8.19); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch39/Area Scan (81x151x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0218 W/kg

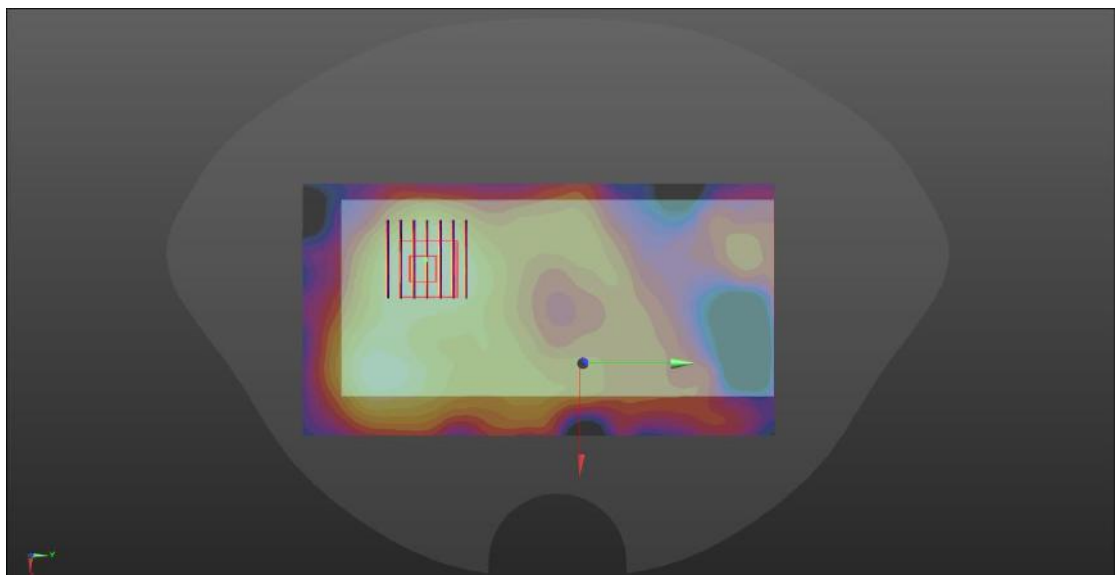
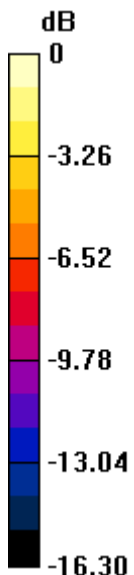
**Ch39/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.489 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.0360 W/kg

**SAR(1 g) = 0.019 W/kg; SAR(10 g) = 0.011 W/kg**

Maximum value of SAR (measured) = 0.0213 W/kg



0 dB = 0.0213 W/kg

**Meas.88 Body Plane with Back Side 10mm on Middle Channel in Bluetooth mode with Antenna 7**

Date: 2021.11.25

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

Medium parameters used (interpolated):  $f = 2441$  MHz;  $\sigma = 1.829$  S/m;  $\epsilon_r = 38.856$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.19, 8.19, 8.19); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.10 (7331)

**Ch39/Area Scan (81x151x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0829 W/kg

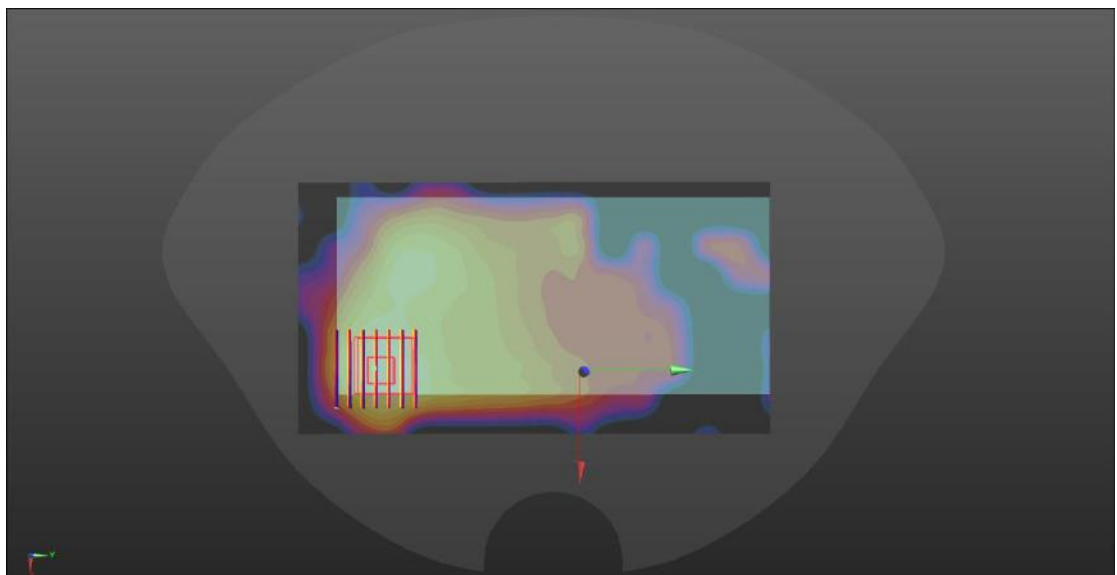
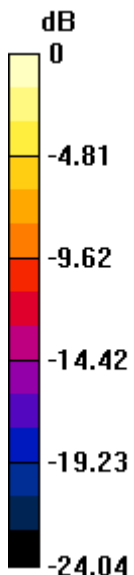
**Ch39/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.183 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.166 W/kg

**SAR(1 g) = 0.074 W/kg; SAR(10 g) = 0.035 W/kg**

Maximum value of SAR (measured) = 0.0804 W/kg



0 dB = 0.0804 W/kg

**MEAS.1 Body Plane with Top Edge 0mm on High Channel in GPRS1900 4Slots mode with Antenna 1**

Date: 2022.02.11

Communication System: GPRS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:2.08

Medium parameters used (interpolated):  $f = 1909.8$  MHz;  $\sigma = 1.407$  S/m;  $\epsilon_r = 40.197$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.6

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 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch810 /Area Scan (61x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.801 W/kg

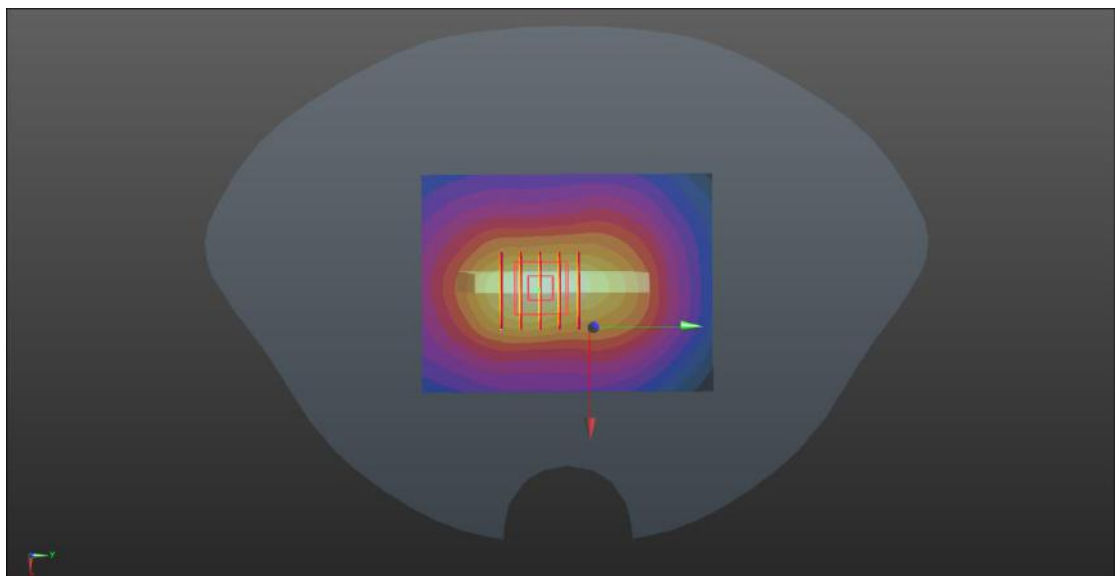
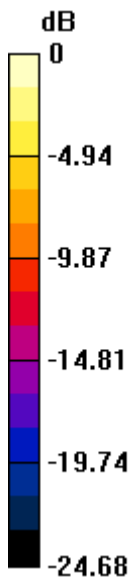
**Ch810 /Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.46 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 1.29 W/kg

**SAR(1 g) = 0.736 W/kg; SAR(10 g) = 0.356 W/kg**

Maximum value of SAR (measured) = 0.817 W/kg



0 dB = 0.817 W/kg

**MEAS.2 Body Plane with Top Edge 0mm on Middle Channel in N41 mode with Antenna 1**

Date: 2022.02.12

Communication System: N41; Frequency: 2592.99 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2592.99$  MHz;  $\sigma = 1.962$  S/m;  $\epsilon_r = 39.409$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.4

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 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch518598/Area Scan (71x101x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm

Maximum value of SAR (interpolated) = 7.12 W/kg

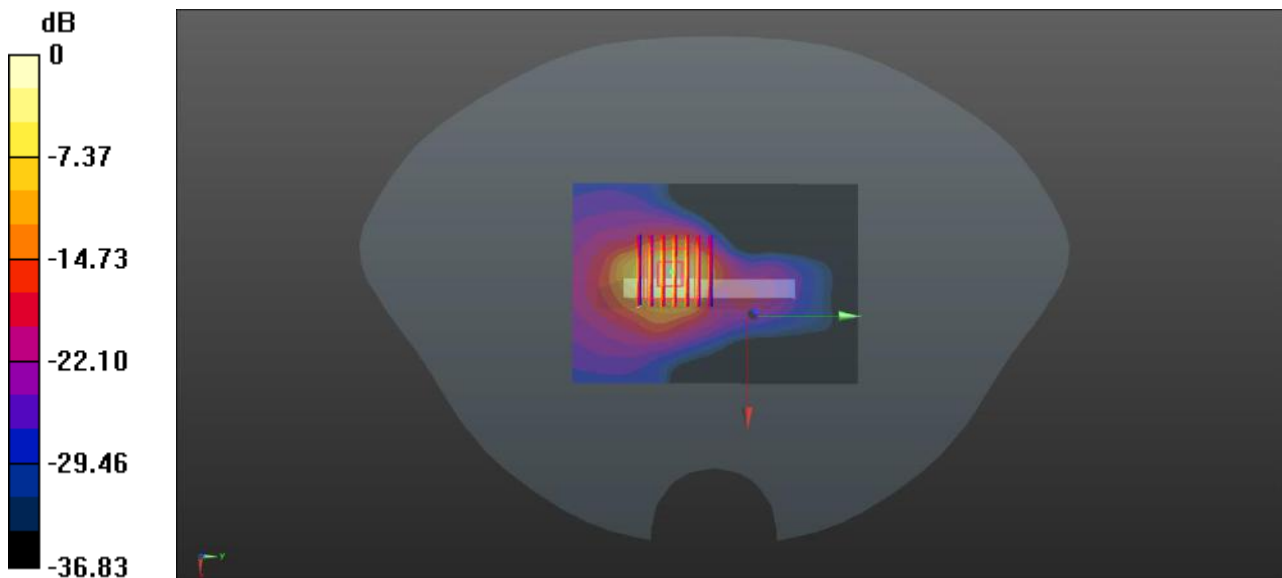
**Ch518598/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 10.44 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 18.0 W/kg

**SAR(1 g) = 5.41 W/kg; SAR(10 g) = 1.68 W/kg**

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



0 dB = 6.78 W/kg

**MEAS.3 Left Head with Cheek on Channel 155 in IEEE802.11ac80 mode with Antenna 7**

Date: 2022.02.14

Communication System: WLAN(ac) 80Mhz; Frequency: 5775 MHz;Duty Cycle: 1:1.071

Medium parameters used (interpolated):  $f = 5775$  MHz;  $\sigma = 5.339$  S/m;  $\epsilon_r = 36.415$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Ambient Temperature:22.7 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7607; ConvF(4.92, 4.92, 4.92); 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 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.930 W/kg

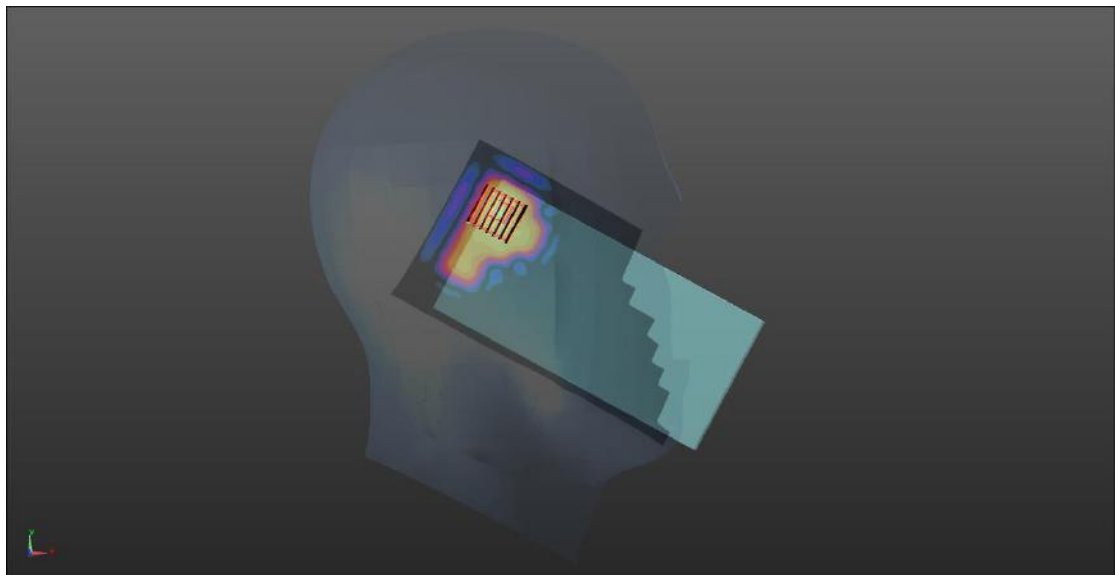
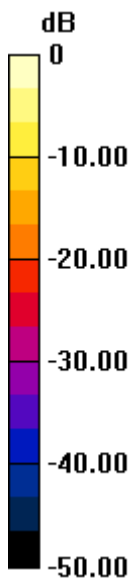
**Ch155/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.055 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 4.41 W/kg

**SAR(1 g) = 0.909 W/kg; SAR(10 g) = 0.264 W/kg**

Maximum value of SAR (measured) = 1.86 W/kg



0 dB = 1.86 W/kg

**MEAS.4 Body Plane with Back Side 15mm on Channel 138 in IEEE802.11ac80 mode with Antenna 7**

Date: 2022.02.13

Communication System: WLAN(ac) 80MHz; Frequency: 5690 MHz; Duty Cycle: 1:1.071

Medium parameters used (interpolated):  $f = 5690$  MHz;  $\sigma = 5.003$  S/m;  $\epsilon_r = 35.067$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.7

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 on left 1859; Type: QD000P40CC; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch138/Area Scan (101x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.696 W/kg

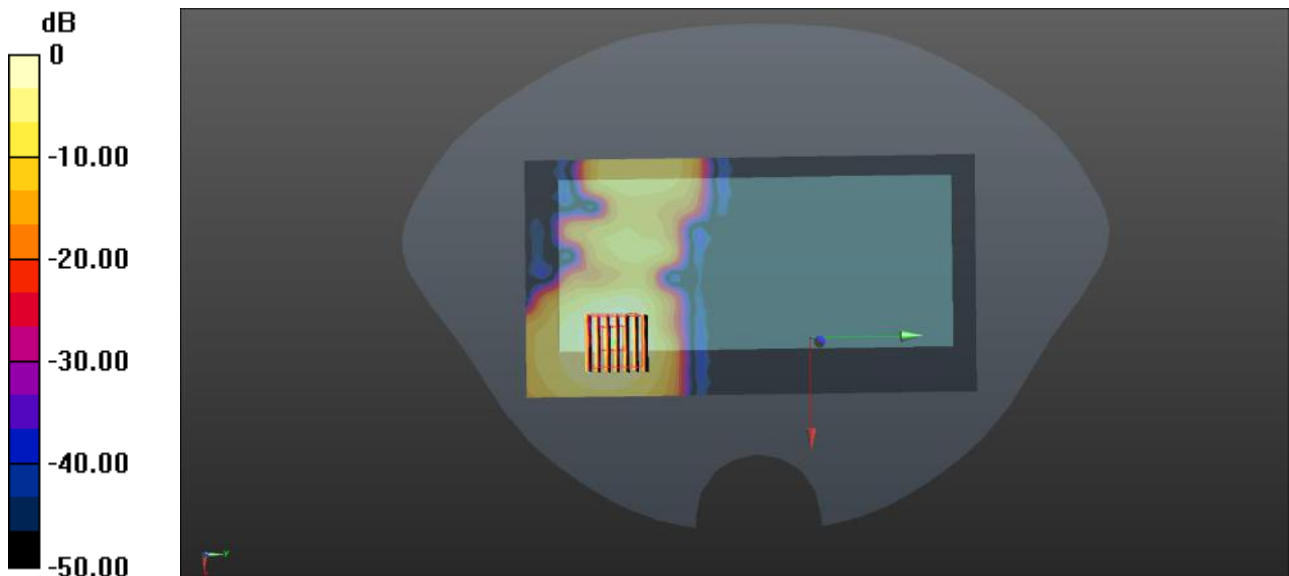
**Ch138/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.43 W/kg

**SAR(1 g) = 0.375 W/kg; SAR(10 g) = 0.138 W/kg**

Maximum value of SAR (measured) = 0.701 W/kg



0 dB = 0.701 W/kg



## **ANNEX D EUT EXTERNAL PHOTOS**

Please refer the document "BL-SZ2210045-AW.pdf".

## **ANNEX E SAR TEST SETUP PHOTOS**

Please refer the document "BL-SZ2210045-AS.pdf".

## **ANNEX F CALIBRATION REPORT**

Please refer the document "CALIBRATION REPORT.pdf".

--END OF REPORT--